

TEST REPORT

Application No.: SUCR2601000074AT
Applicant: TVS Motor Company Limited
Address of Applicant: P.B N0.4 Harita, Hosur-635109, Tamil Nadu, India
Manufacturer: TVS Motor Company Limited
Address of Manufacturer: P.B N0.4 Harita, Hosur-635109, Tamil Nadu, India
Equipment Under Test (EUT):
EUT Name: Instrument Cluster
Model No.: 0000N7161459
FCC ID: 2BUVH-N7161459
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-01-29
Date of Test: 2026-03-03 to 2026-03-09
Date of Issue: 2026-03-18

Test Result:
Pass*

* In the configuration tested, the EUT complied with the standards specified above.

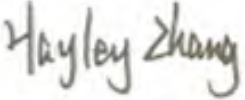
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Revision Record			
Version	Description	Date	Remark
01	Original	2026-03-18	/

Authorized for issue by:			
Tested By			
		Hayley Zhang/Project Engineer	
Approved By			
		Cedar Cheng /Reviewer	



2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10-2020/Cor1-2023 Section 6.10.5 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10-2020/Cor1-2023 Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10-2020/Cor1-2023 Section 6.6 & 11.12	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10-2020/Cor1-2023 Section 11.9	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10-2020/Cor1-2023 Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectral Density		ANSI C63.10-2020/Cor1-2023 Section 11.10	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10-2020/Cor1-2023 Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10-2020/Cor1-2023 Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass

Remark:

This test report (Report No.: SUCR260100007402 issue on 2026-03-18) is based on the original test report (Report No.: TERF2211002512E2 issue on 2023-03-22).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report, for Melange module all items are tested; For Murata module Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions and Maximum Conducted Output Power are tested, and other data is refer to the original report TERF2211002512E2 issue on 2023-03-22..

3 Contents

	Page
1 COVER PAGE	1
2 Test Summary	3
3 Contents.....	4
4 General Information.....	5
4.1 Details of E.U.T.	5
4.2 Environment Parameter	5
4.3 Description of Support Units	5
4.4 Measurement Uncertainty & Decision Rule	6
4.5 Test Location	7
4.6 Test Facility	7
4.7 Deviation from Standards.....	7
4.8 Abnormalities from Standard Conditions.....	7
5 Equipment List	8
6 Radio Spectrum Technical Requirement.....	10
6.1 Antenna Requirement	10
7 Radio Spectrum Matter Test Results	11
7.1 Radiated Emissions which fall in the restricted bands	11
7.2 Radiated Spurious Emissions Below 1GHz	45
7.3 Radiated Spurious Emissions Above 1GHz.....	51
7.4 Maximum Conducted Output Power	77
7.5 Minimum 6dB Bandwidth.....	79
7.6 Power Spectral Density	80
7.7 Conducted Band Edges Measurement	81
7.8 Conducted Spurious Emissions	82
8 Test Setup Photo	83
9 EUT Constructional Details (EUT Photos).....	83
10 Appendix.....	84



4 General Information

4.1 Details of E.U.T.

Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Rates Type:	Murata: 1M/2M; Melange:125K/500K/1M/2M
Channel Spacing:	2MHz
Antenna Type:	Murata Module: SMD Loop Antenna (ANT2) Melange Module: PCB Antenna (ANT3)
Antenna Gain:	Murata Module: 0.5dBi (ANT2) Melange Module: 0dBi (ANT3)

Remark: Bluetooth LE 125k/500k/1Mbps uses the same modulation, and 1Mbps was found to be the worst case scenario which was performed full test and recorded in this test report.

4.2 Environment Parameter

Environment Parameter	Selected Values During Tests	
Relative Humidity	41-44%	
Value	Temperature(°C)	Voltage(V)
NTNV	22-23	13.5
Note: NV:Normal Voltage LV:Low Extreme Test Voltage HV:High Extreme Test Voltage NT:Normal Temperature LT:Low Extreme Test Temperature HT:High Extreme Test Temperature		

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Computer	Lenovo	T14	2YK6GR
Earphones	oppo	oppo Earphones	N/A
Router	Smauwave Technology Co.,Ltd	SRT 421	RT421X02211300001

4.4 Measurement Uncertainty & Decision Rule

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 1.56\text{dB}$ (9KHz-30MHz)
		$\pm 4.80\text{dB}$ (30MHz-1GHz)
		$\pm 4.80\text{dB}$ (1GHz-18GHz)
		$\pm 4.80\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1\%$
12	Time	$\pm 3\%$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu)
Pilot Free Trade Zone

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.is accredited by the American Association for Laboratory Accreditation (A2LA).

- **FCC (Designation Number: CN1312)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized as an accredited testing laboratory. Test Firm Registration Number:717327

- **ISED (CAB Identifier: CN0120)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 27594

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



Report No.: SUCR260100007402

Page: 8 of 106

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
RF Conducted Test						
1	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2026/1/14	2027/1/13
2	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-15	2025/11/21	2026/11/20
3	MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2026/1/14	2027/1/13
4	Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	2026/1/14	2027/1/13
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-08-01	2026/1/14	2027/1/13
6	MXG Vector Signal Generator	ROHDE&SCHWARZ	SMR20	SUWI-01-33-01	2025/11/21	2026/11/20
7	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-13	2025/5/8	2026/5/7
8	Wideband Radio Communication Test Station	Anritsu	MT8000A	SUWI-01-34-02	2025/11/21	2026/11/20
9	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2025/11/21	2026/11/20
10	Power meter	Anritsu	ML2495A	SUWI-01-31-01	2025/11/21	2026/11/20
11	Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2025/11/21	2026/11/20
12	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2026/1/14	2027/1/13
13	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2026/2/11	2027/2/10
14	Temperature Chamber	GIANT FORCE	ICT-017-40-SP-SD	SUWI-01-13-02	2025/5/7	2026/5/6
15	Measurement Software	TST	TST 272 V2.02	SUWI-03-55-03	NCR	NCR
16	RF Control unit	TST	TSCB3023R2	SUWI-02-20-01	NCR	NCR
17	RFCables	Tonscend	NA	SUWI-01-03-01	NCR	NCR
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2023/6/3	2026/6/2
2	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2026/1/14	2027/1/13
3	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-09	2025/11/21	2026/11/20
4	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2026/1/14	2027/1/13
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-18-01	2026/1/14	2027/1/13
6	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2025/9/10	2027/9/9
7	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2025/5/7	2027/5/6
8	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2025/5/7	2027/5/6
9	Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2025/5/7	2027/5/6
10	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2026/1/14	2027/1/13
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2026/1/14	2027/1/13
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2026/1/14	2027/1/13
13	Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	2025/11/21	2026/11/20
14	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2025/8/25	2026/8/24
15	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	2025/8/26	2026/8/25
16	Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	2025/11/21	2026/11/20



Report No.: SUCR260100007402

Page: 9 of 106

17	Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	2026/1/14	2027/1/13
18	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2026/1/14	2027/1/13
19	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2026/2/11	2027/2/10
20	Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-06	NCR	NCR
21	RF Control unit	Tonscend	JS0806-1	SUWI-02-20-01	NCR	NCR
22	RFCables	Tonscend	NA	SUWI-01-03-02	NCR	NCR

Remark: NCR=No Calibration Requirement.

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Murata: SMD Loop Antenna; Melange: PCB Antenna and no consideration of replacement. The best case gain of the antenna is Murata: 0.5dBi; Melange: 0dBi dBi.

Antenna location: Refer to internal photo.



7 Radio Spectrum Matter Test Results

7.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.10.5 & 11.12

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

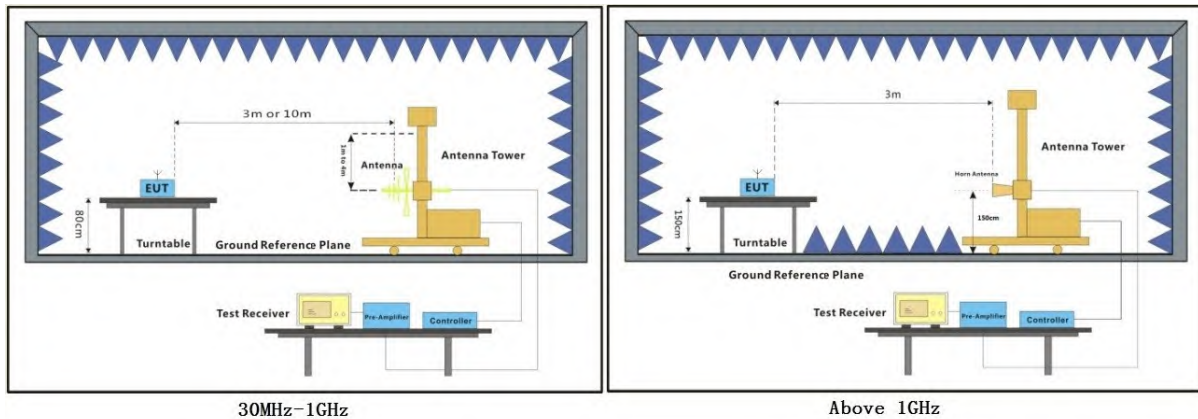
Humidity: 43 % RH

Atmospheric Pressure: 1021 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Murata_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	Melange_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram



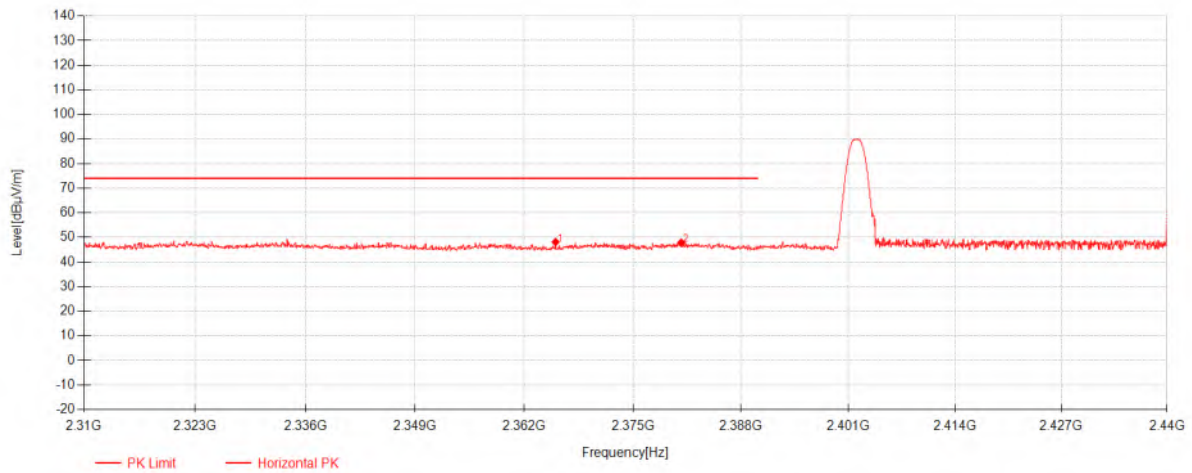
7.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

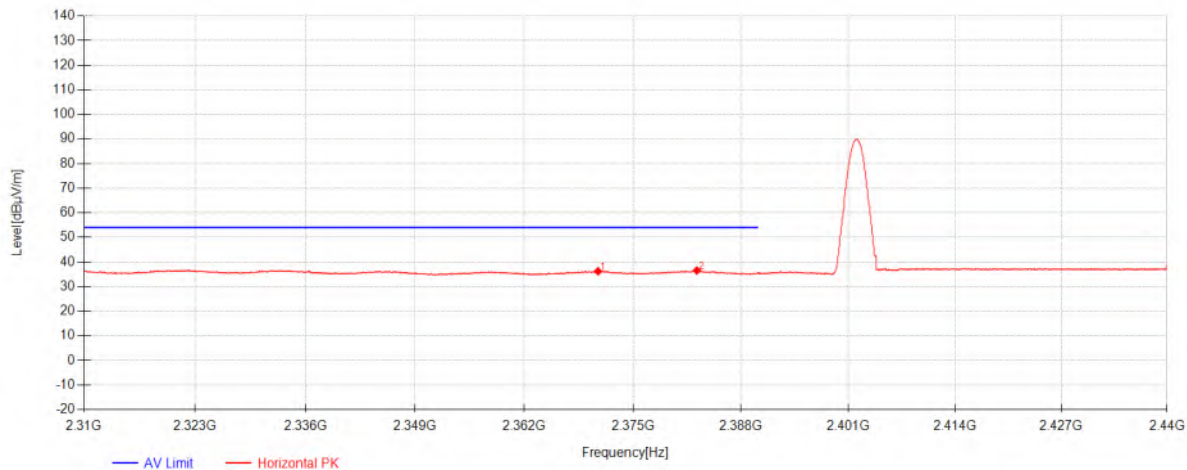
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

BLE_Melange_1M_TX_CH_00_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2365.7267	44.62	26.96	-23.49	48.09	74.00	25.91	Horizontal
2	2380.8067	44.39	26.99	-23.51	47.87	74.00	26.13	Horizontal

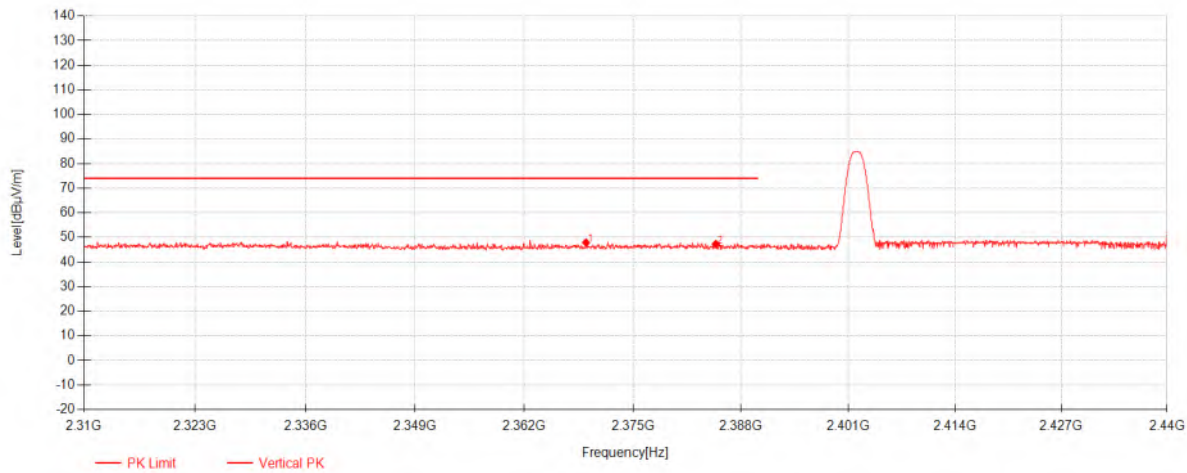
BLE_Melange_1M_TX_CH_00_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2370.8075	32.74	26.97	-23.49	36.22	54.00	17.78	Horizontal
2	2382.67	33.03	26.99	-23.51	36.51	54.00	17.49	Horizontal

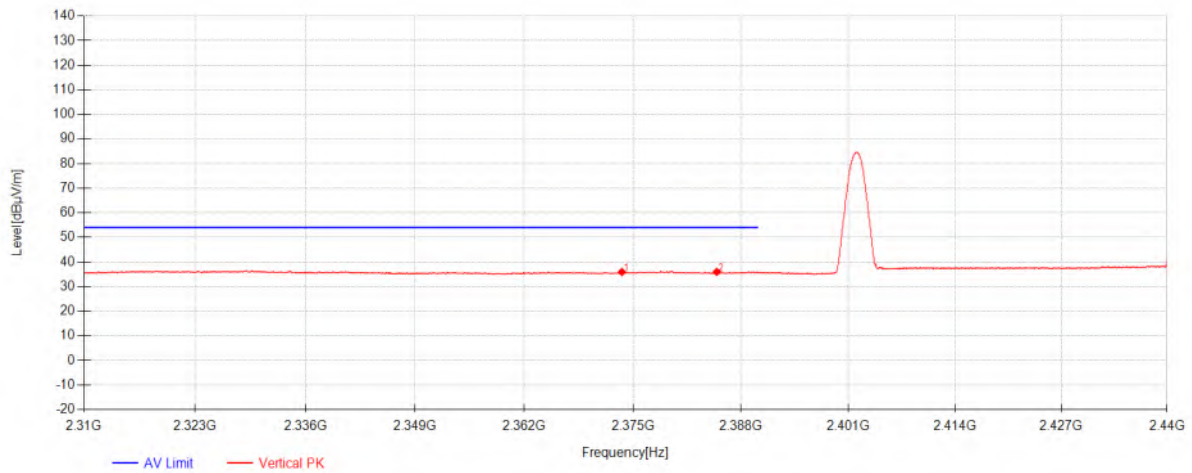


BLE_Melange_1M_TX_CH_00_Vertical_Peak



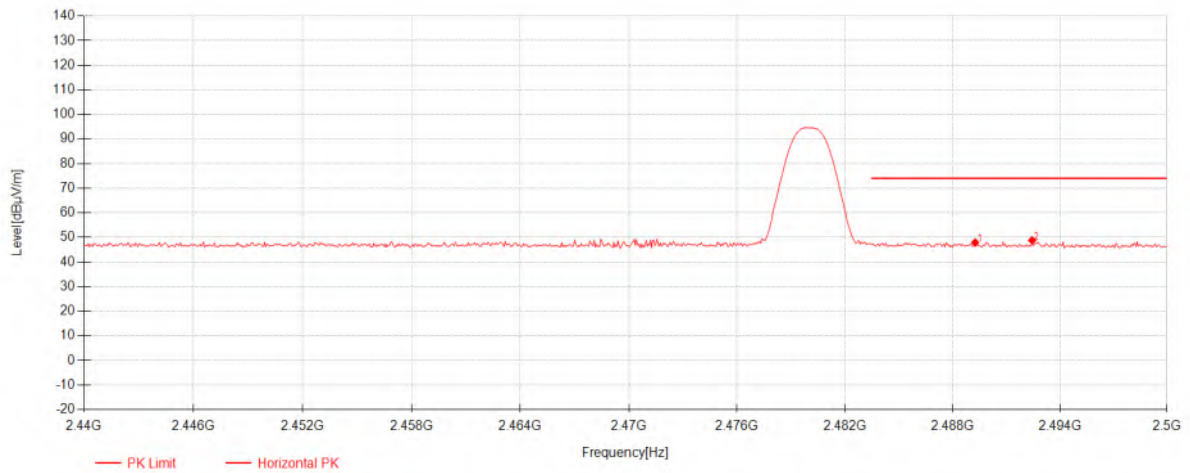
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2369.3667	44.41	26.96	-23.49	47.88	74.00	26.12	Vertical
2	2384.9667	43.82	26.99	-23.51	47.30	74.00	26.70	Vertical

BLE_Melange_1M_TX_CH_00_Vertical_Average



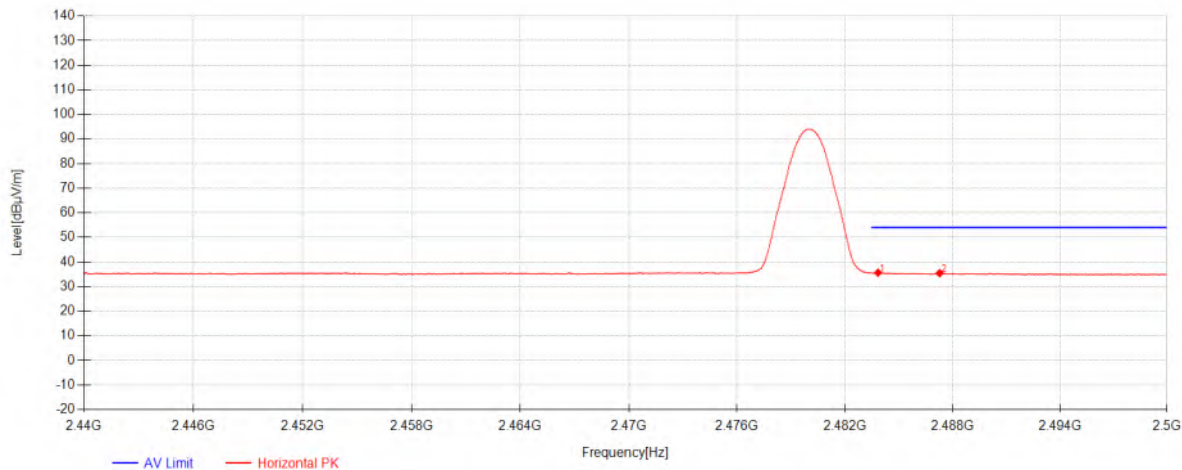
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2373.6675	32.43	26.97	-23.50	35.91	54.00	18.09	Vertical
2	2385.075	32.47	26.99	-23.51	35.95	54.00	18.05	Vertical

BLE_Melange_1M_TX_CH_39_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2489.26	43.87	27.18	-23.16	47.90	74.00	26.10	Horizontal
2	2492.44	44.72	27.19	-23.14	48.76	74.00	25.24	Horizontal

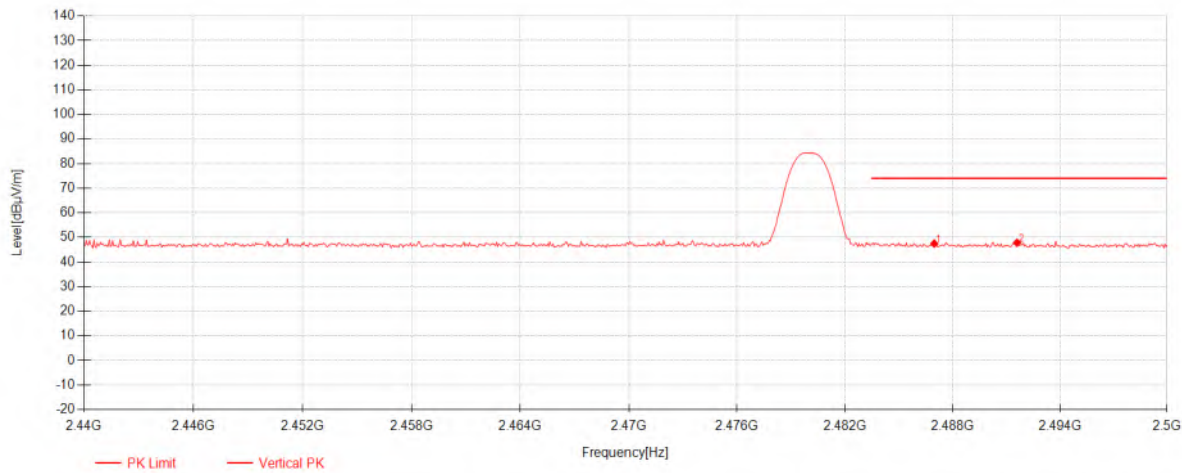
BLE_Melange_1M_TX_CH_39_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.845	31.64	27.17	-23.18	35.63	54.00	18.37	Horizontal
2	2487.28	31.43	27.18	-23.16	35.44	54.00	18.56	Horizontal



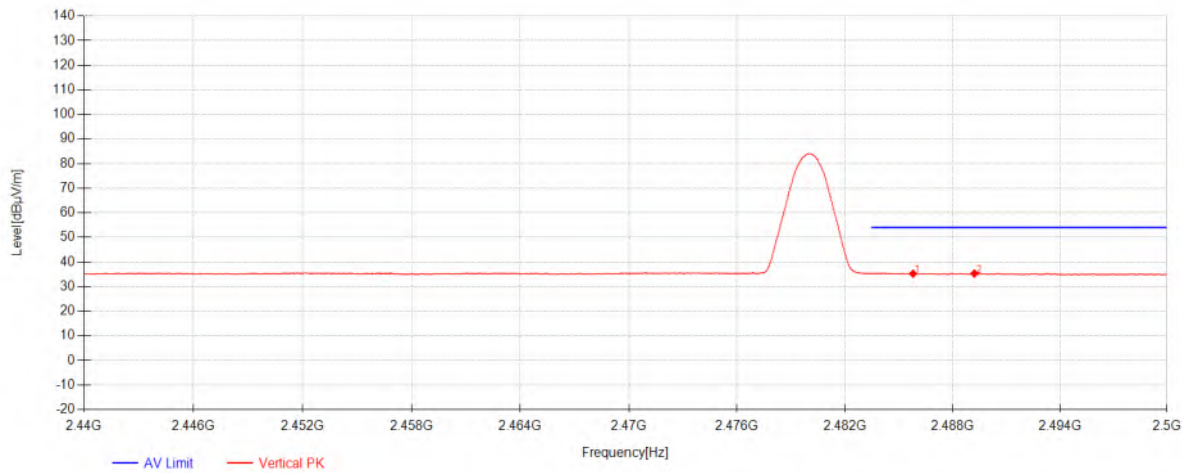
BLE_Melange_1M_TX_CH_39_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2486.98	43.46	27.18	-23.16	47.47	74.00	26.53	Vertical
2	2491.6	43.75	27.18	-23.15	47.79	74.00	26.21	Vertical

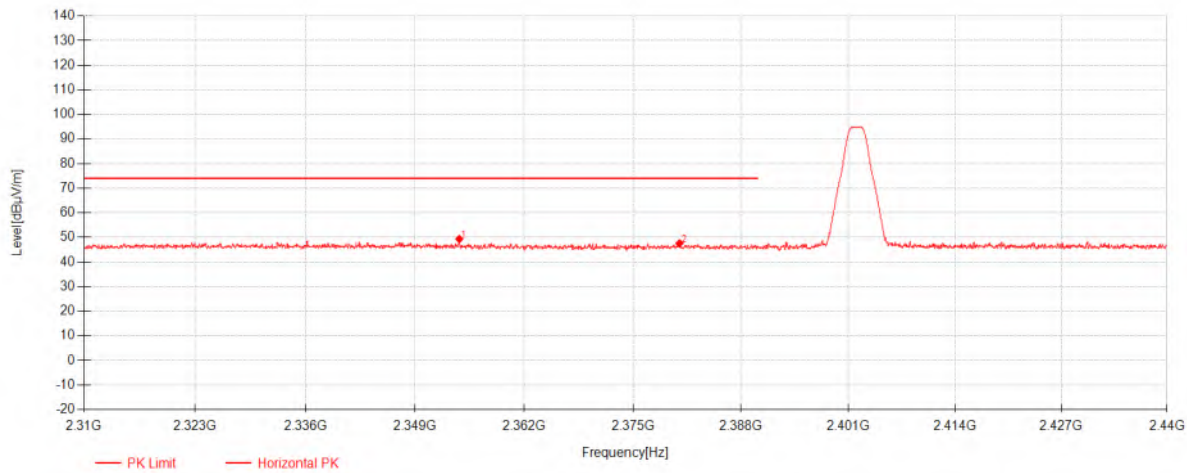


BLE_Melange_1M_TX_CH_39_Vertical_Average



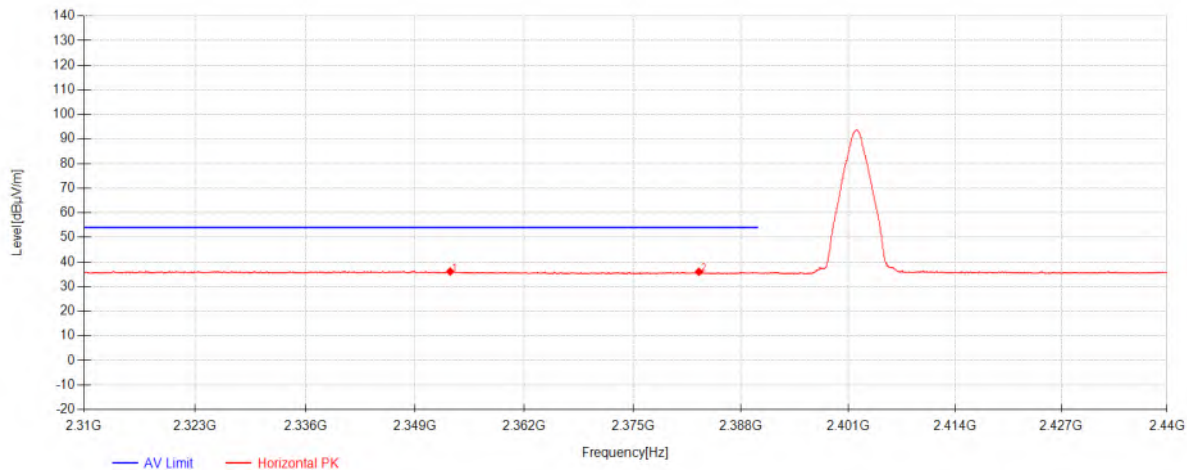
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.795	31.23	27.17	-23.17	35.23	54.00	18.77	Vertical
2	2489.215	31.23	27.18	-23.16	35.26	54.00	18.74	Vertical

BLE_Melange_2M_TX_CH_00_Horizontal_Peak



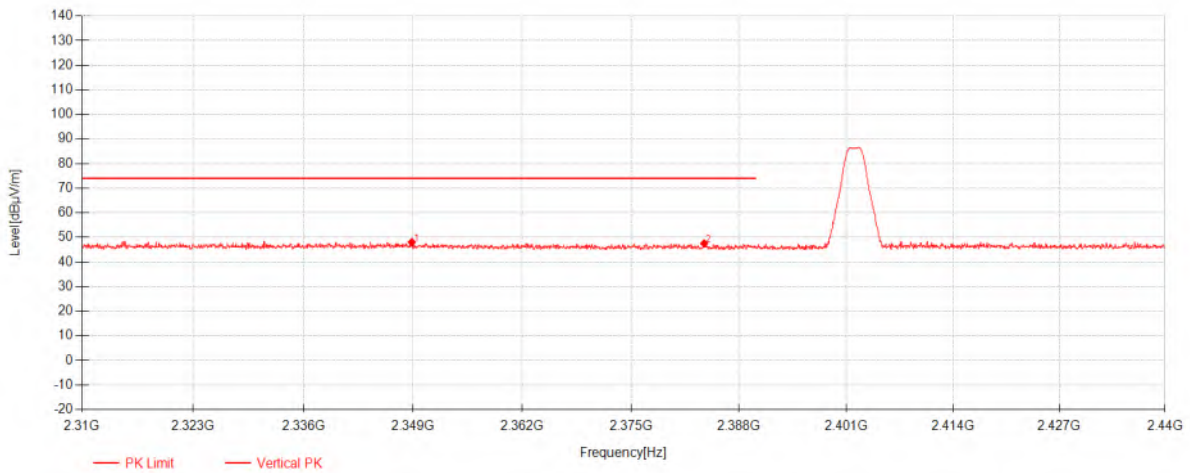
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2354.2433	45.86	26.94	-23.47	49.33	74.00	24.67	Horizontal
2	2380.59	44.08	26.99	-23.50	47.56	74.00	26.44	Horizontal

BLE_Melange_2M_TX_CH_00_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2353.16	32.63	26.94	-23.47	36.10	54.00	17.90	Horizontal
2	2382.93	32.51	26.99	-23.51	35.99	54.00	18.01	Horizontal

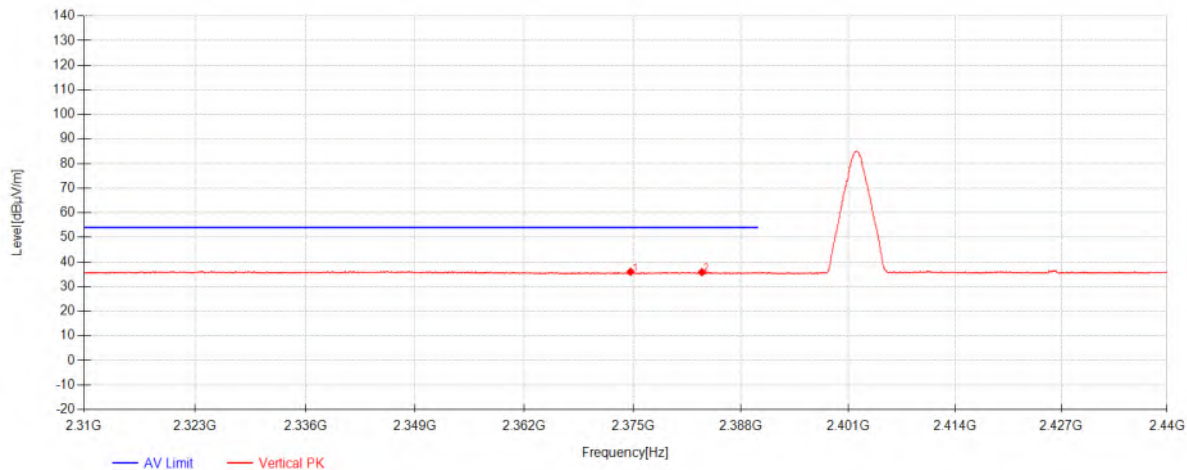
BLE_Melange_2M_TX_CH_00_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2348.8267	44.57	26.93	-23.46	48.03	74.00	25.97	Vertical
2	2383.7967	44.02	26.99	-23.51	47.50	74.00	26.50	Vertical



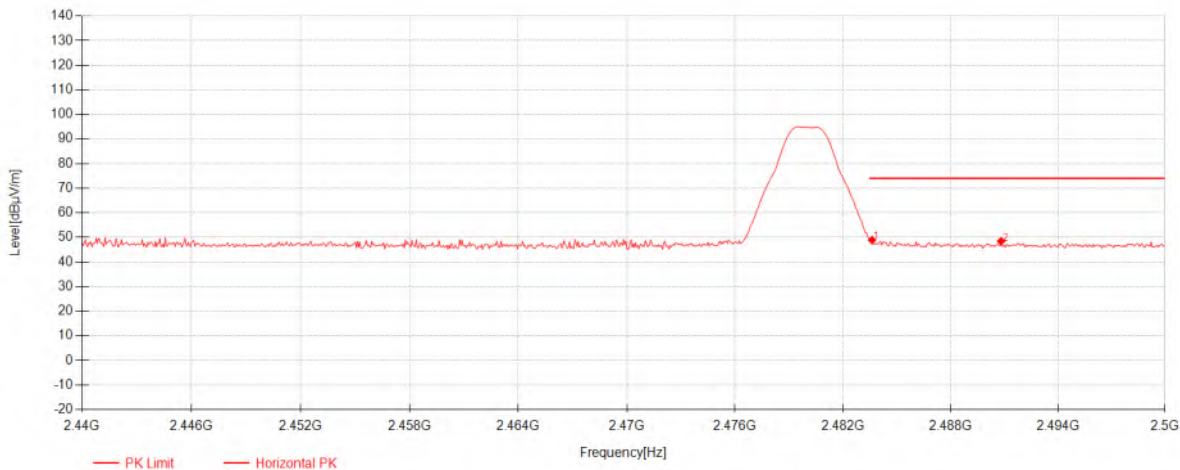
BLE_Melange_2M_TX_CH_00_Vertical_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2374.7075	32.51	26.97	-23.50	35.99	54.00	18.01	Vertical
2	2383.2875	32.33	26.99	-23.51	35.81	54.00	18.19	Vertical



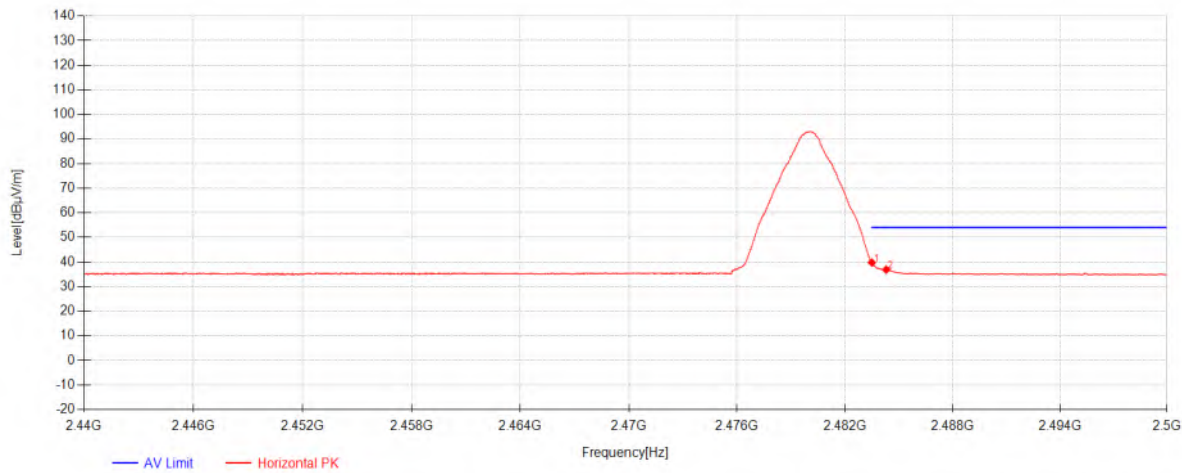
BLE_Melange_2M_TX_CH_39_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.62	44.91	27.17	-23.18	48.90	74.00	25.10	Horizontal
2	2490.82	44.40	27.18	-23.15	48.43	74.00	25.57	Horizontal



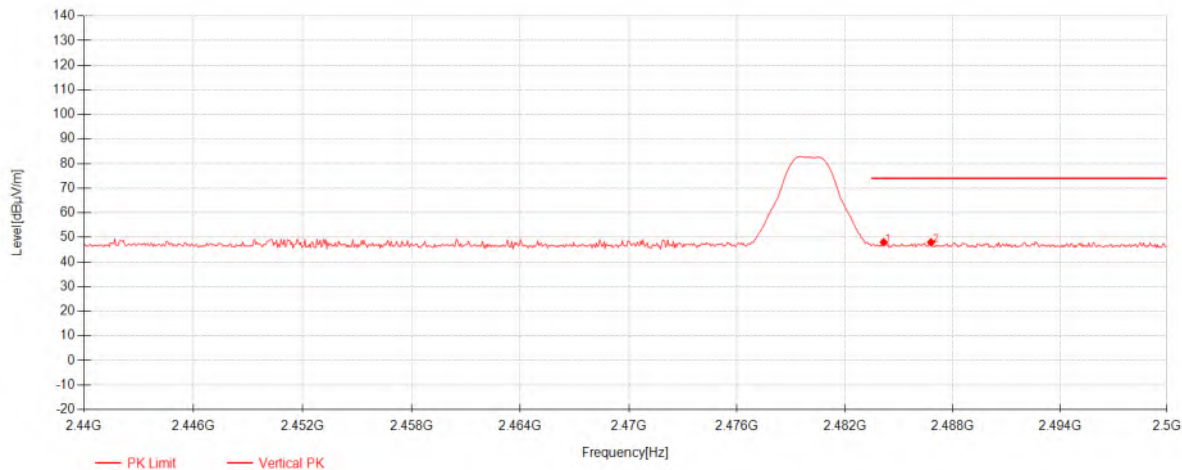
BLE_Melange_2M_TX_CH_39_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5	35.76	27.17	-23.18	39.75	54.00	14.25	Horizontal
2	2484.295	32.86	27.17	-23.18	36.86	54.00	17.14	Horizontal



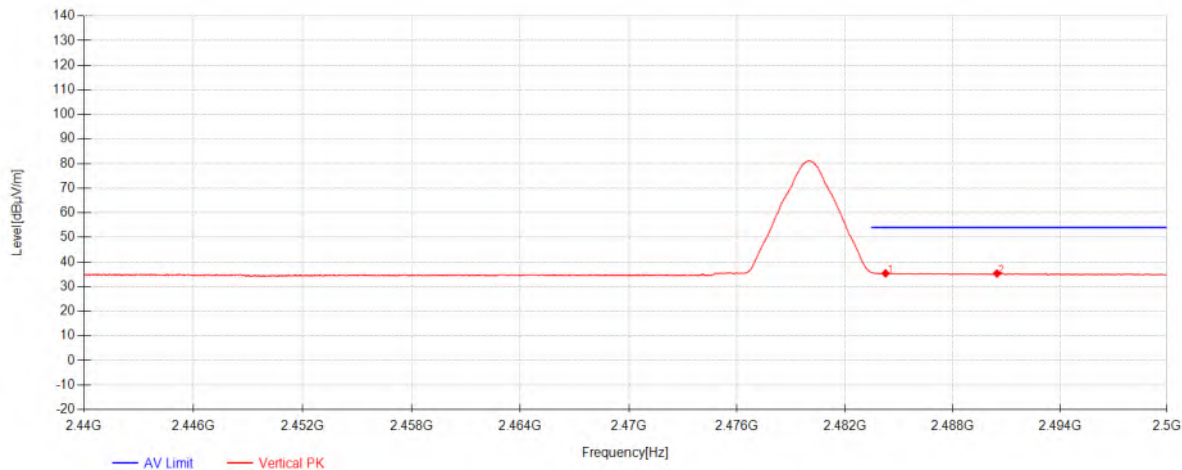
BLE_Melange_2M_TX_CH_39_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.16	44.00	27.17	-23.18	47.99	74.00	26.01	Vertical
2	2486.8	43.98	27.18	-23.17	47.99	74.00	26.01	Vertical

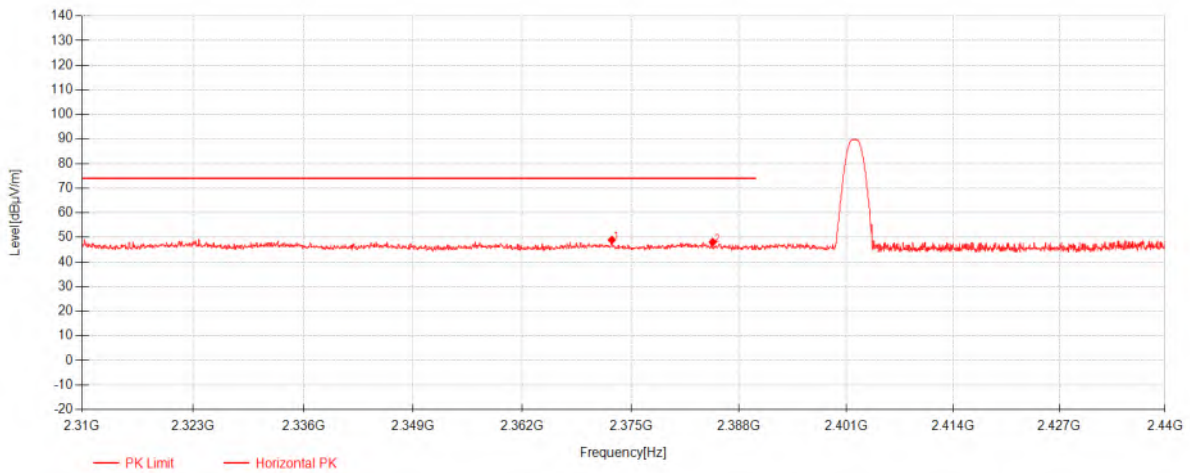


BLE_Melange_2M_TX_CH_39_Vertical_Average



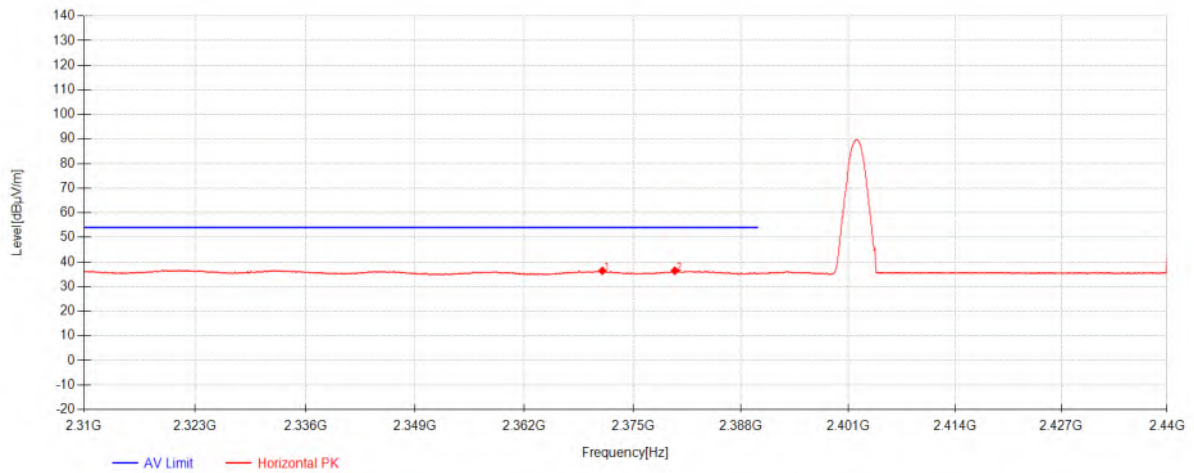
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.265	31.35	27.17	-23.18	35.35	54.00	18.65	Vertical
2	2490.475	31.26	27.18	-23.15	35.29	54.00	18.71	Vertical

BLE_Murata_1M_TX_CH_00_Horizontal_Peak



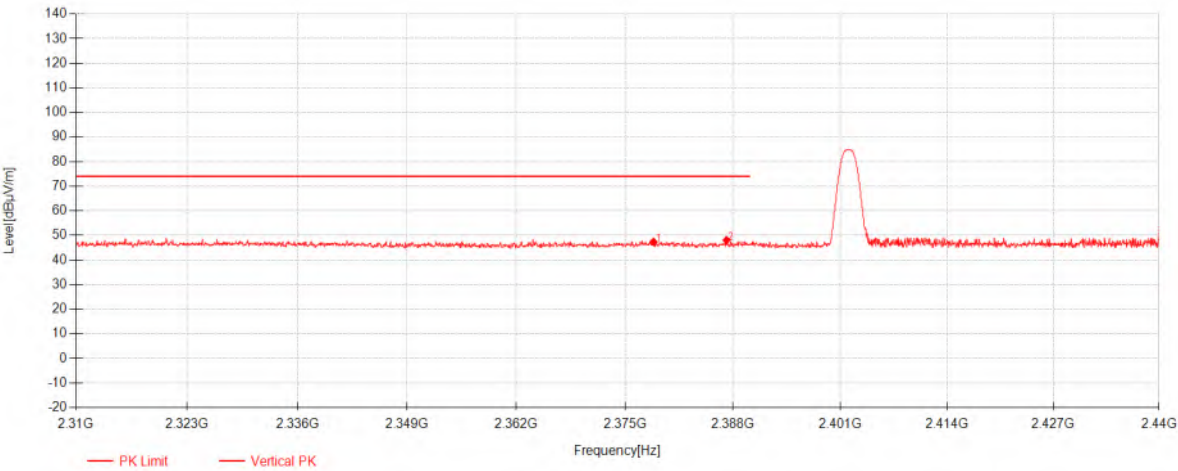
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2372.7033	45.47	26.97	-23.49	48.95	74.00	25.05	Horizontal
2	2384.8367	44.59	26.99	-23.51	48.07	74.00	25.93	Horizontal

BLE_Murata_1M_TX_CH_00_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2371.3275	32.90	26.97	-23.49	36.38	54.00	17.62	Horizontal
2	2380.0375	32.93	26.98	-23.50	36.41	54.00	17.59	Horizontal

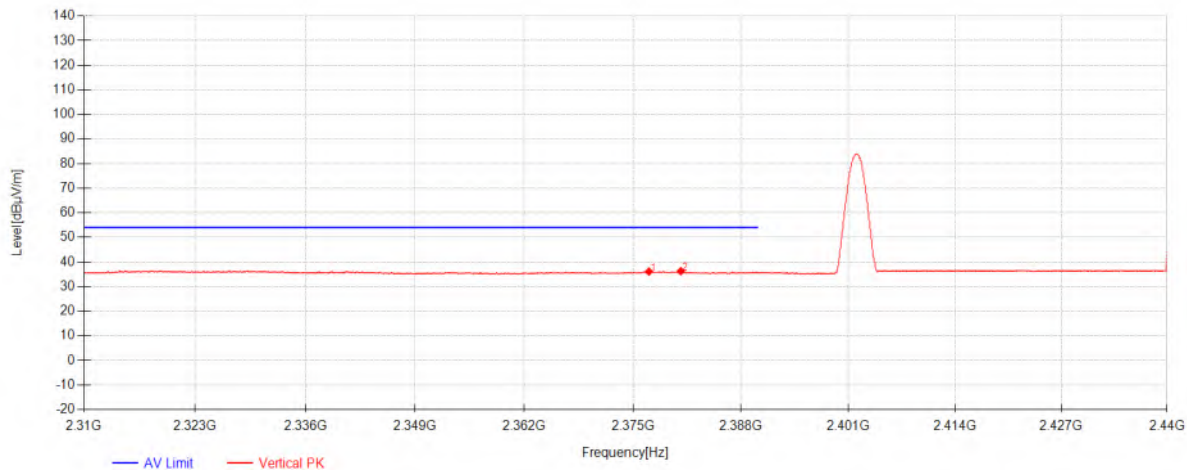
BLE_Murata_1M_TX_CH_00_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2378.4233	43.86	26.98	-23.50	47.34	74.00	26.66	Vertical
2	2387.22	44.56	27.00	-23.51	48.04	74.00	25.96	Vertical

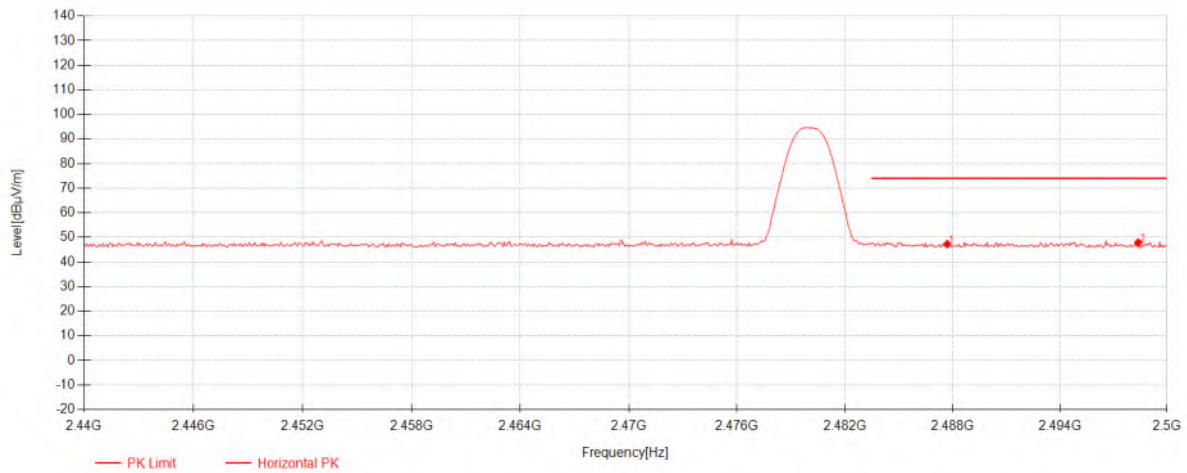


BLE_Murata1M_TX_CH_00_Vertical_Average



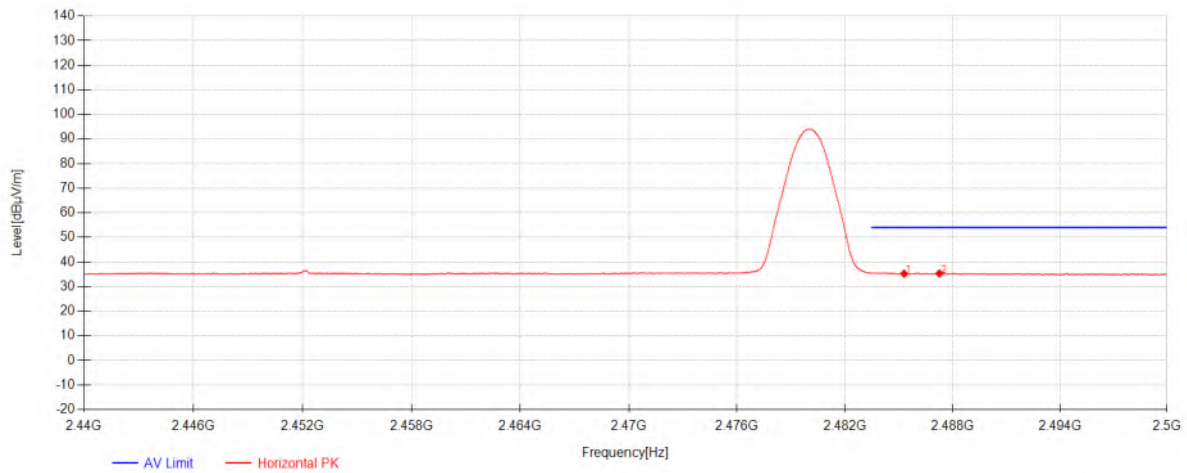
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2376.9175	32.62	26.98	-23.50	36.10	54.00	17.90	Vertical
2	2380.7525	32.75	26.99	-23.50	36.23	54.00	17.77	Vertical

BLE_Murata_1M_TX_CH_39_Horizontal_Peak



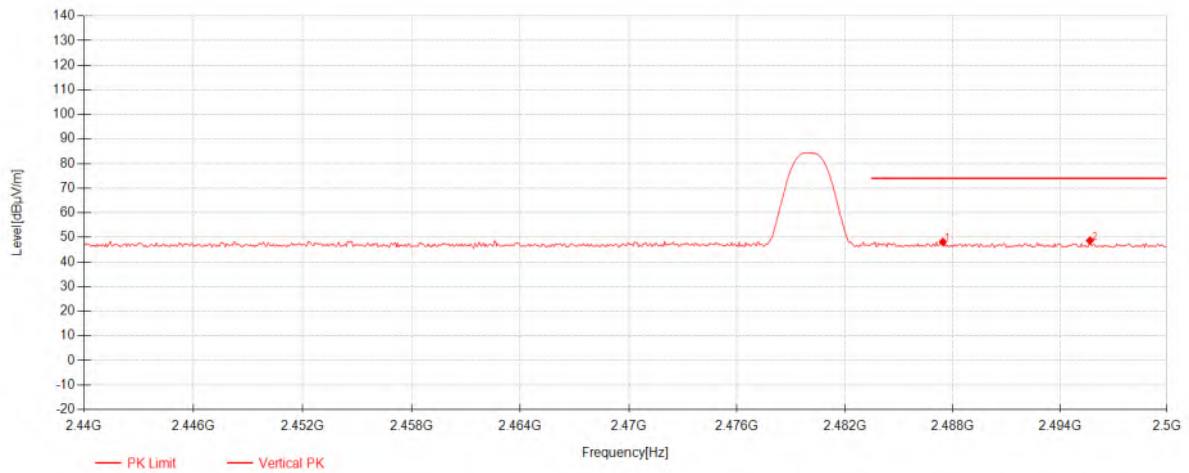
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2487.7	43.24	27.18	-23.16	47.26	74.00	26.74	Horizontal
2	2498.38	43.76	27.20	-23.12	47.84	74.00	26.16	Horizontal

BLE_Murata_1M_TX_CH_39_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.3	31.22	27.17	-23.17	35.22	54.00	18.78	Horizontal
2	2487.265	31.29	27.18	-23.16	35.30	54.00	18.70	Horizontal

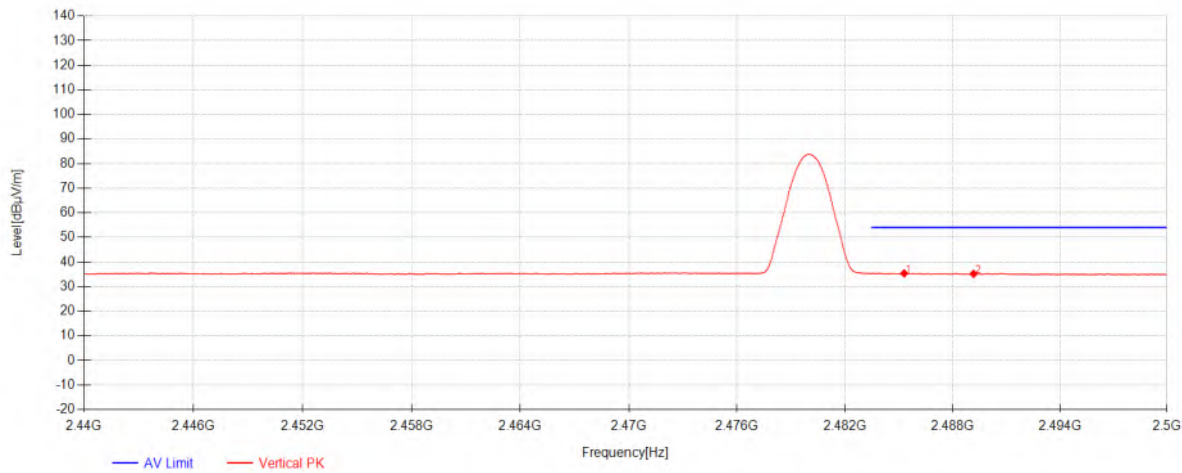
BLE_Murata_1M_TX_CH_39_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2487.46	44.12	27.18	-23.16	48.13	74.00	25.87	Vertical
2	2495.68	44.62	27.19	-23.13	48.68	74.00	25.32	Vertical



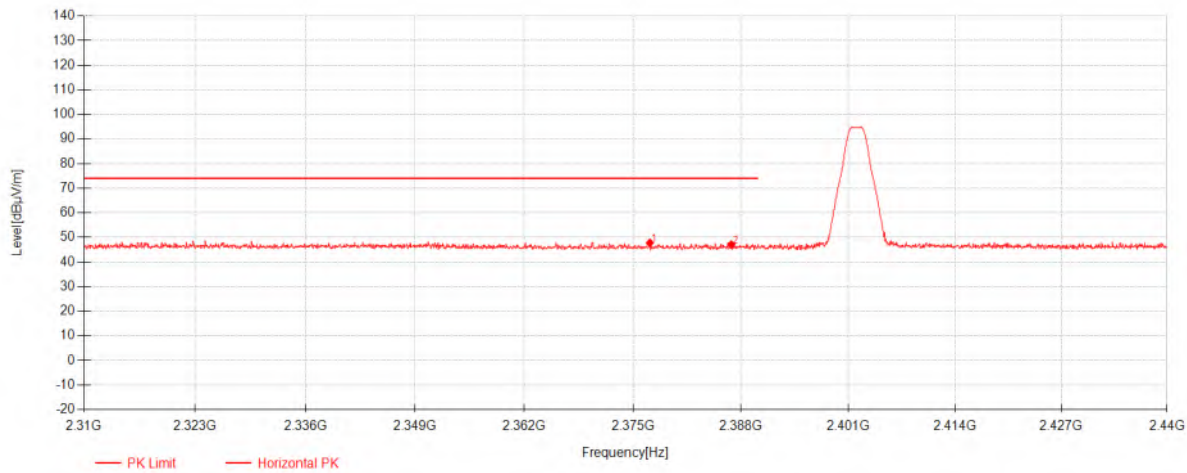
BLE_Murata_1M_TX_CH_39_Veritical_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.3	31.35	27.17	-23.17	35.35	54.00	18.65	Vertical
2	2489.17	31.11	27.18	-23.16	35.14	54.00	18.86	Vertical

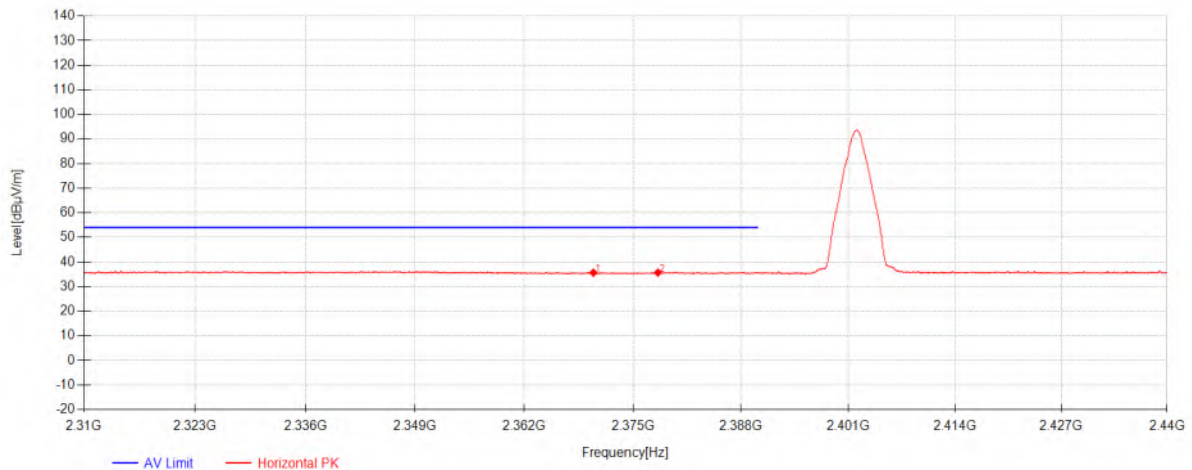


BLE_Murata_2M_TX_CH_00_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2377.0367	44.32	26.98	-23.50	47.80	74.00	26.20	Horizontal
2	2386.83	43.62	27.00	-23.51	47.10	74.00	26.90	Horizontal

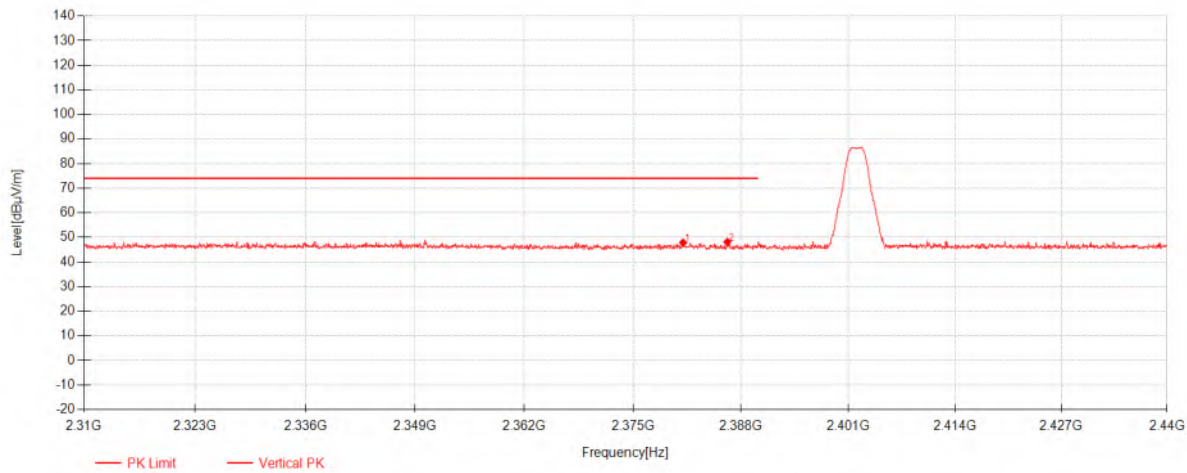
BLE_Murata_2M_TX_CH_00_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2370.255	32.13	26.97	-23.49	35.61	54.00	18.39	Horizontal
2	2377.99	32.18	26.98	-23.50	35.66	54.00	18.34	Horizontal



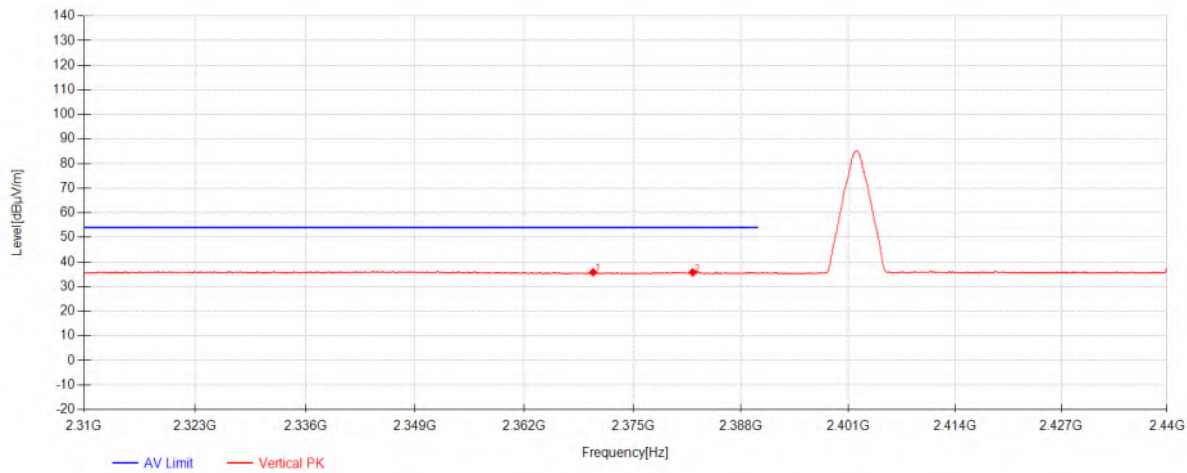
BLE_Murata_2M_TX_CH_00_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2381.0233	44.33	26.99	-23.51	47.81	74.00	26.19	Vertical
2	2386.3533	44.63	27.00	-23.51	48.11	74.00	25.89	Vertical



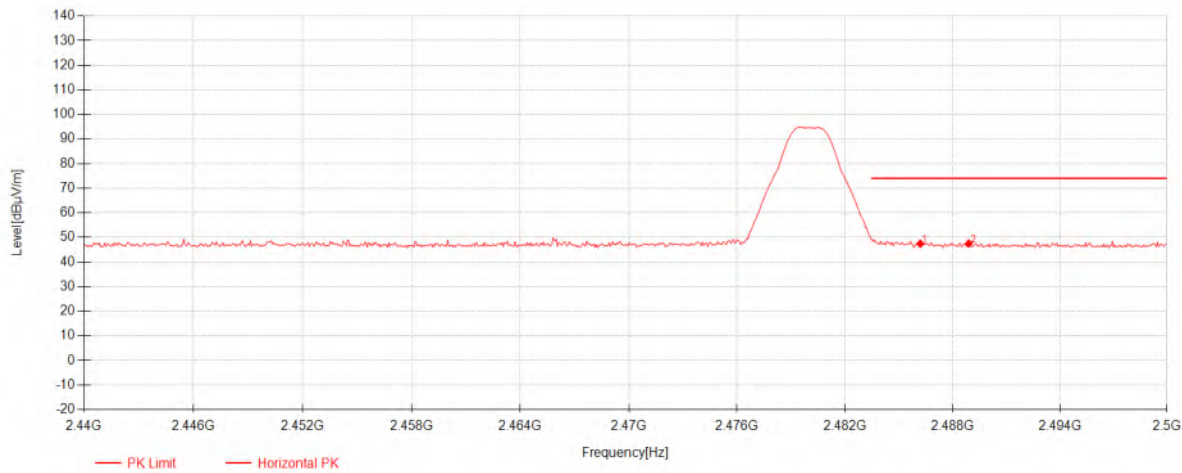
BLE_Murata_2M_TX_CH_00_Vertical_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2370.2225	32.32	26.97	-23.49	35.80	54.00	18.20	Vertical
2	2382.1825	32.29	26.99	-23.51	35.77	54.00	18.23	Vertical

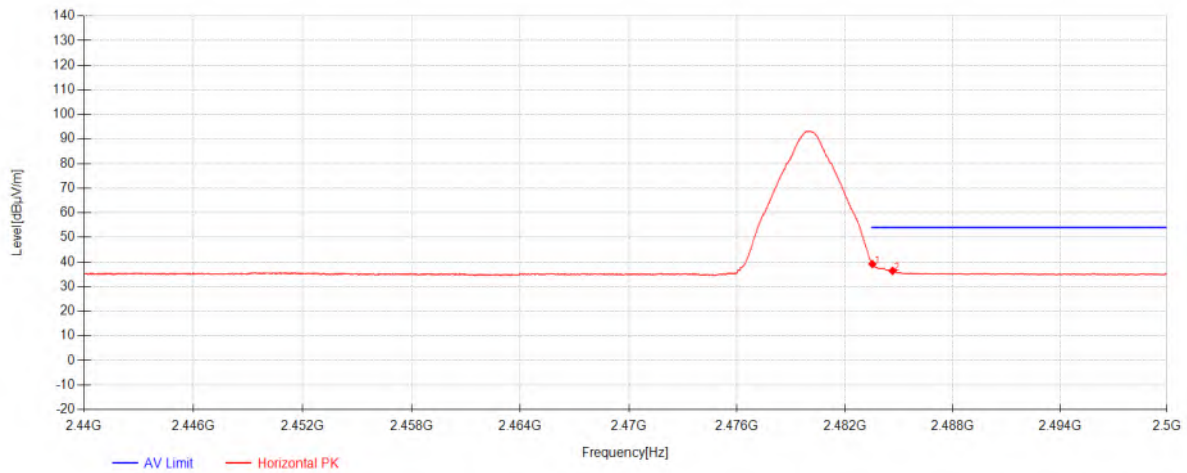


BLE_Murata_2M_TX_CH_39_Horizontal_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2486.2	43.42	27.18	-23.17	47.43	74.00	26.57	Horizontal
2	2488.9	43.46	27.18	-23.16	47.48	74.00	26.52	Horizontal

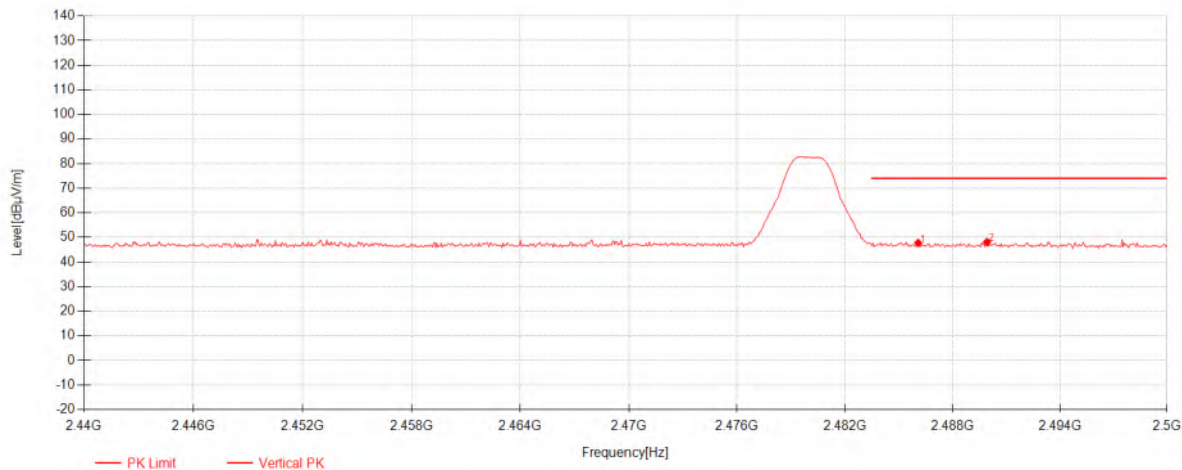
BLE_Murata_2M_TX_CH_39_Horizontal_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.53	35.15	27.17	-23.18	39.14	54.00	14.86	Horizontal
2	2484.655	32.36	27.17	-23.17	36.36	54.00	17.64	Horizontal

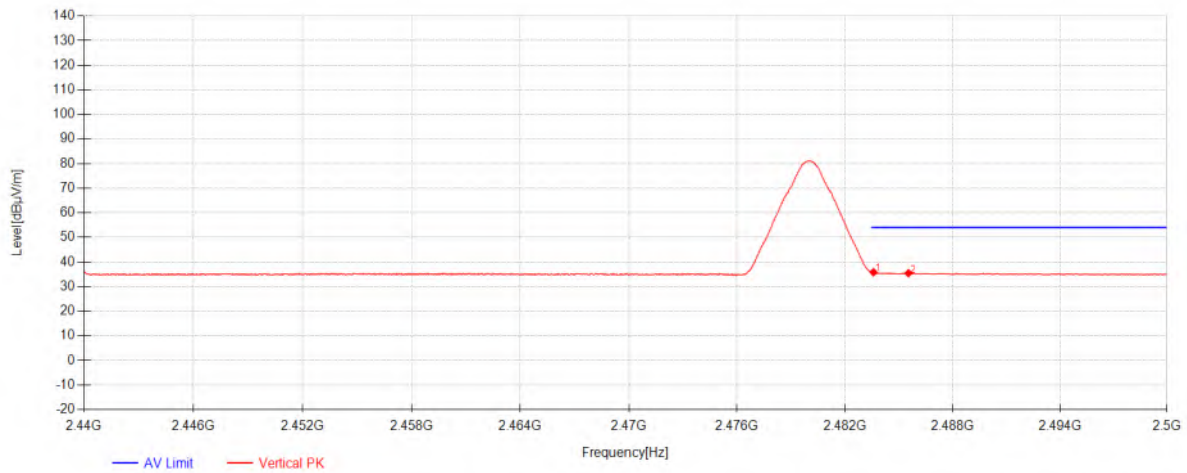


BLE_Murata_2M_TX_CH_39_Vertical_Peak



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2486.08	43.73	27.17	-23.17	47.74	74.00	26.26	Vertical
2	2489.92	44.07	27.18	-23.15	48.10	74.00	25.90	Vertical

BLE_Murata_2M_TX_CH_39_Vertical_Average



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.59	31.82	27.17	-23.18	35.81	54.00	18.19	Vertical
2	2485.54	31.43	27.17	-23.17	35.43	54.00	18.57	Vertical



7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.4,6.5
Measurement Distance: 3m

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	Field strength (dB μ V/m@3m)
0.009-0.490	2400/F(kHz)	300	128.5 to 93.8
0.490-1.705	24000/F(kHz)	30	73.8 to 62.9
1.705-30.0	30	30	69.60
30-88	100	3	40.0
88-216	150	3	43.5
216-960	200	3	46.0
960-1000	500	3	54.0

Note :The emission limits for the range 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

7.2.1 E.U.T. Operation

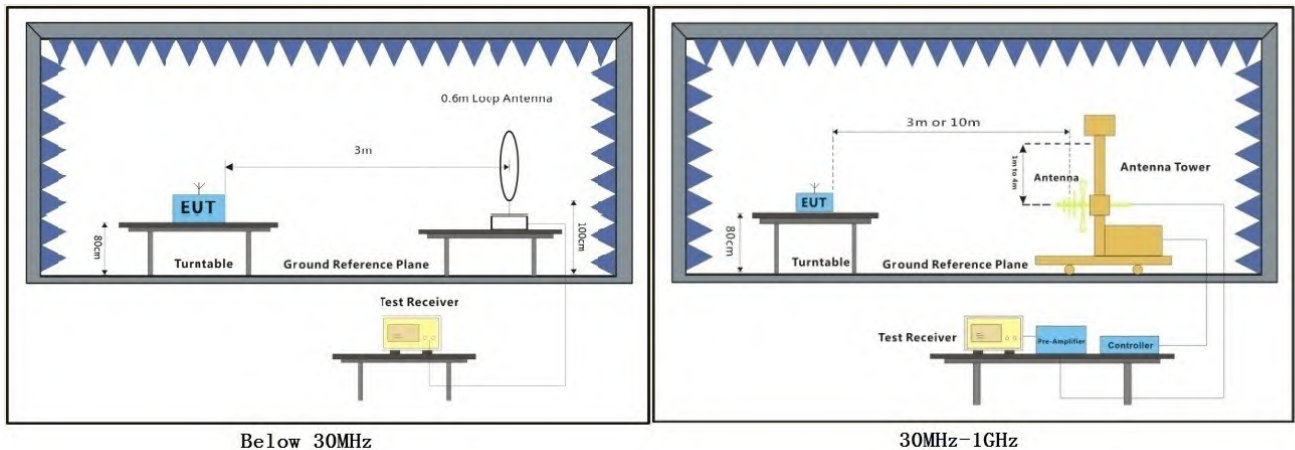
Operating Environment:

Temperature: 23 °C Humidity: 44 % RH Atmospheric Pressure: 1021 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Murata_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	Melange_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

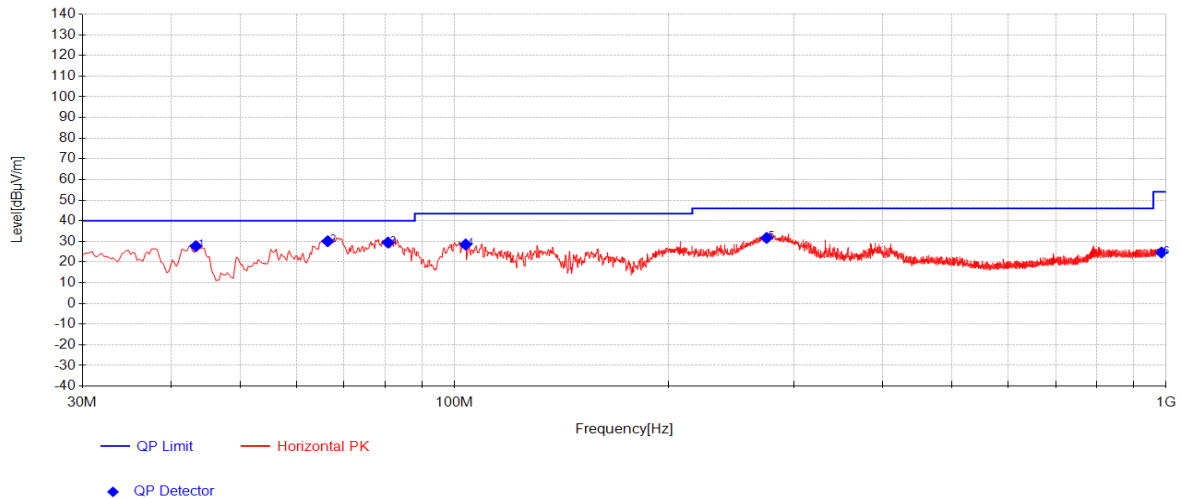
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



Report No.: SUCR260100007402

Page: 47 of 106

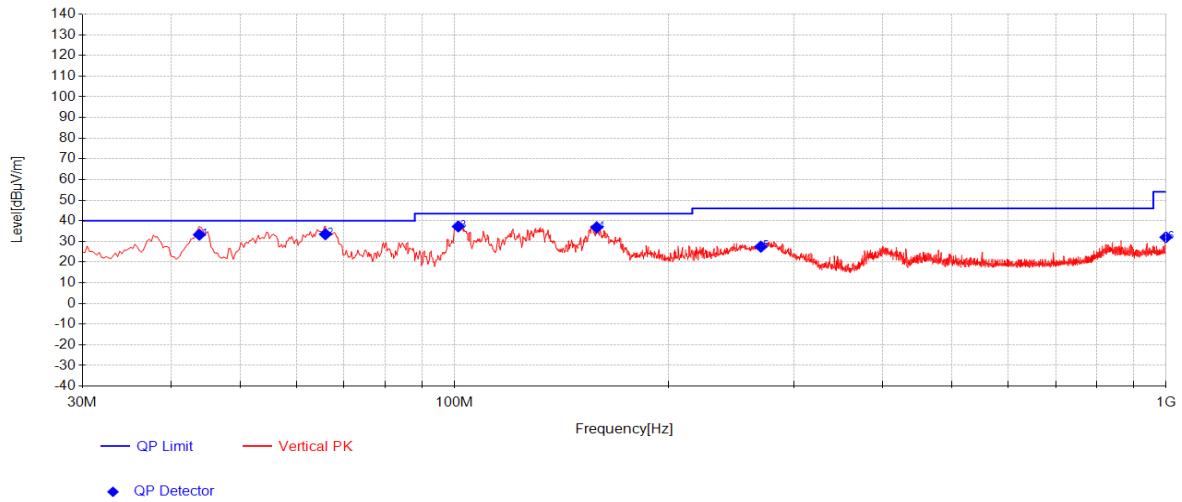
Test Mode: 09; Polarity: Horizontal



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.3375	48.23	13.30	-33.80	27.73	40.00	12.27	123	293	Horizontal
2	66.375	52.62	10.96	-33.47	30.11	40.00	9.89	168	32	Horizontal
3	80.6825	53.54	9.27	-33.33	29.48	40.00	10.52	199	203	Horizontal
4	103.72	51.98	9.63	-33.07	28.53	43.50	14.97	157	93	Horizontal
5	274.6825	51.28	12.21	-31.77	31.72	46.00	14.28	128	73	Horizontal
6	985.6925	28.2	24.39	-27.94	24.65	54.00	29.35	163	93	Horizontal

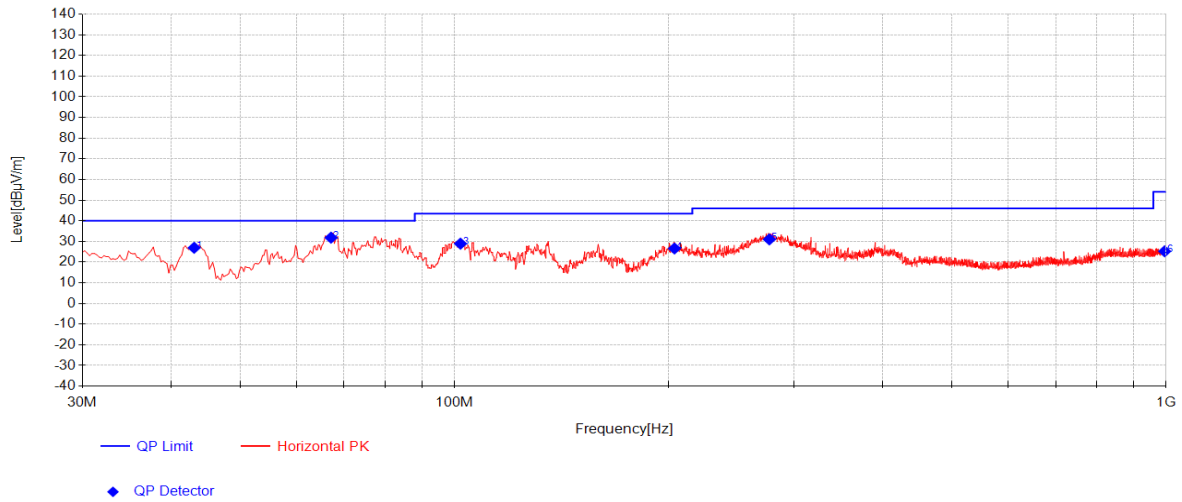
Test Mode: 09; Polarity: Vertical



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.8225	53.76	13.31	-33.80	33.28	40.00	6.72	152	328	Vertical
2	65.89	55.91	11.06	-33.48	33.50	40.00	6.50	166	65	Vertical
3	101.295	61	9.35	-33.11	37.24	43.50	6.26	184	34	Vertical
4	158.525	56.6	12.79	-32.57	36.82	43.50	6.68	115	65	Vertical
5	269.59	47.25	12.04	-31.80	27.48	46.00	18.52	122	75	Vertical
6	1000	35.33	24.50	-27.80	32.03	54.00	21.97	136	184	Vertical

Test Mode: 10; Polarity: Horizontal



Final Data List

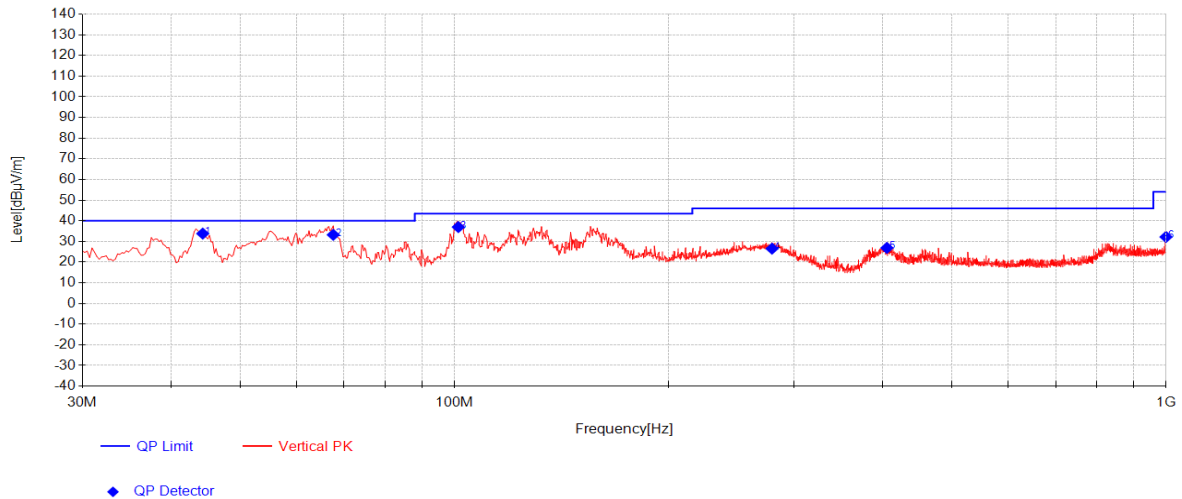
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.095	47.44	13.29	-33.81	26.93	40.00	13.07	123	359	Horizontal
2	67.1025	54.49	10.81	-33.46	31.84	40.00	8.16	155	21	Horizontal
3	102.0225	52.6	9.43	-33.10	28.93	43.50	14.57	124	144	Horizontal
4	203.8725	48.9	9.92	-32.22	26.60	43.50	16.90	139	238	Horizontal
5	277.1075	50.47	12.30	-31.76	31.01	46.00	14.99	152	103	Horizontal
6	995.635	28.61	24.47	-27.85	25.23	54.00	28.77	162	42	Horizontal



Report No.: SUCR260100007402

Page: 50 of 106

Test Mode: 10; Polarity: Vertical



Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.3075	54.28	13.33	-33.79	33.82	40.00	6.18	128	277	Vertical
2	67.5875	55.98	10.71	-33.45	33.23	40.00	6.77	166	179	Vertical
3	101.295	60.72	9.35	-33.11	36.96	43.50	6.54	138	48	Vertical
4	279.5325	45.9	12.38	-31.74	26.54	46.00	19.46	157	88	Vertical
5	405.39	42	15.89	-31.01	26.87	46.00	19.13	154	179	Vertical
6	1000	35.47	24.50	-27.80	32.17	54.00	21.83	123	197	Vertical

7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.6 & 11.12

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

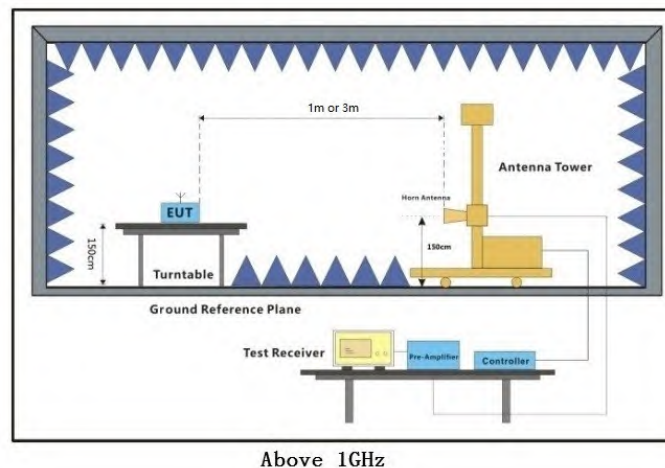
Humidity: 44 % RH

Atmospheric Pressure: 1021 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Murata_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	Melange_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



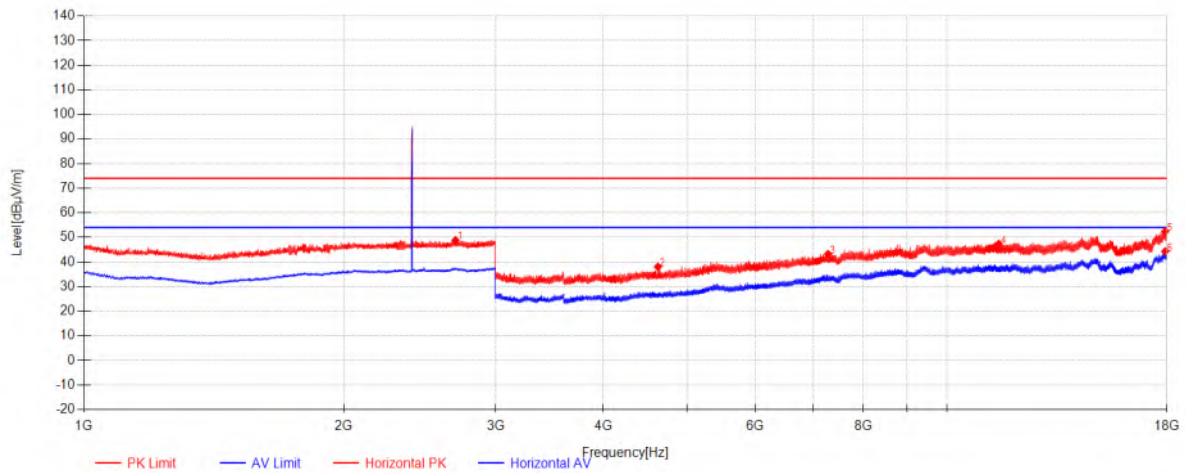
7.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- c. The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- g. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- h. Repeat above procedures until all frequencies measured was complete.

Remark:

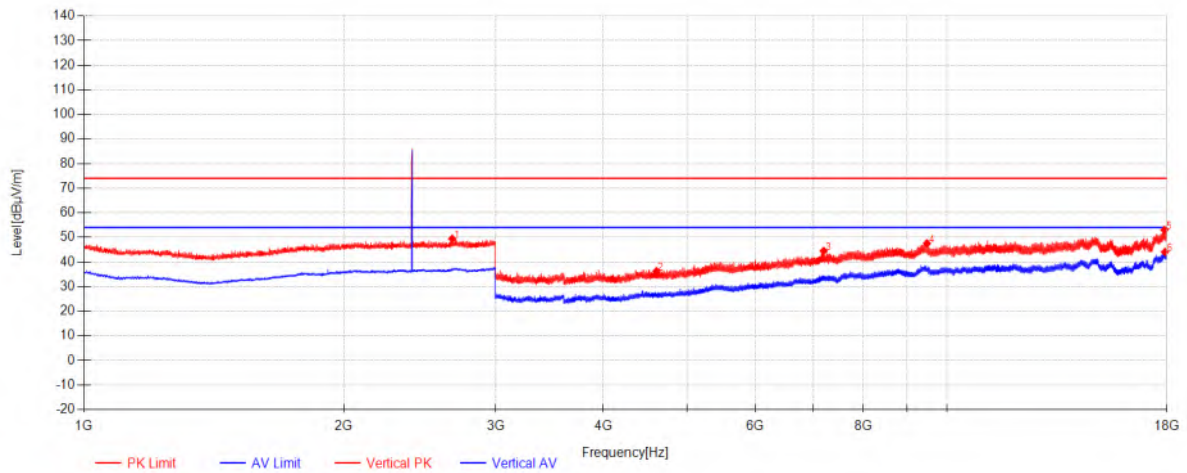
1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
2. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

BLE_Melange_1M_TX_CH_00_Horizontal



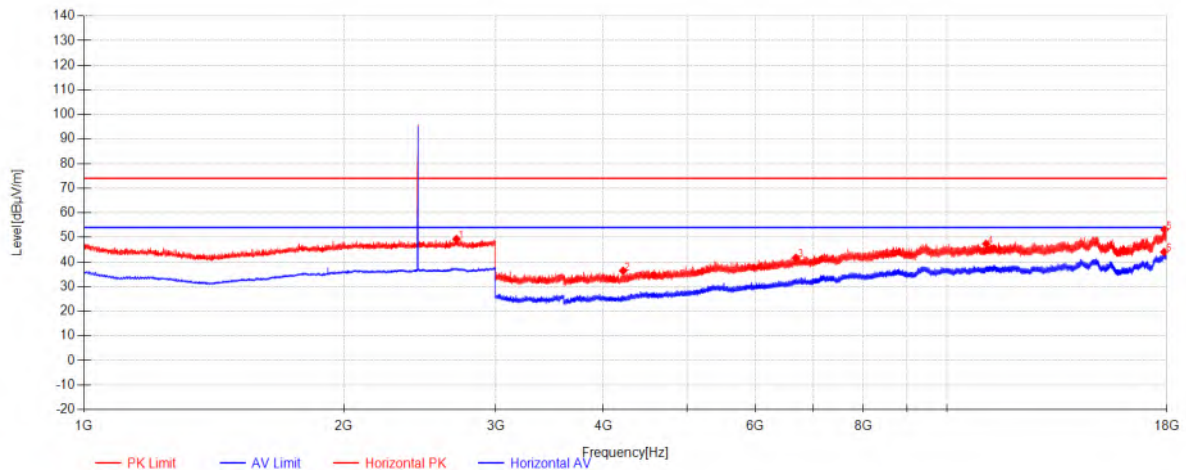
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2695	44.27	27.55	-23.00	48.83	74.00	25.17	Horizontal
2	4625.25	55.62	30.38	-47.99	38.01	74.00	35.99	Horizontal
3	7281.75	53.36	36.01	-46.17	43.20	74.00	30.80	Horizontal
4	11486.25	47.97	39.45	-40.06	47.36	74.00	26.64	Horizontal
5	17909.25	46.35	44.26	-38.22	52.39	74.00	21.61	Horizontal
6	17909.625	38.23	44.26	-38.22	44.27	54.00	9.73	Horizontal

BLE_Melange_1M_TX_CH_00_Vertical



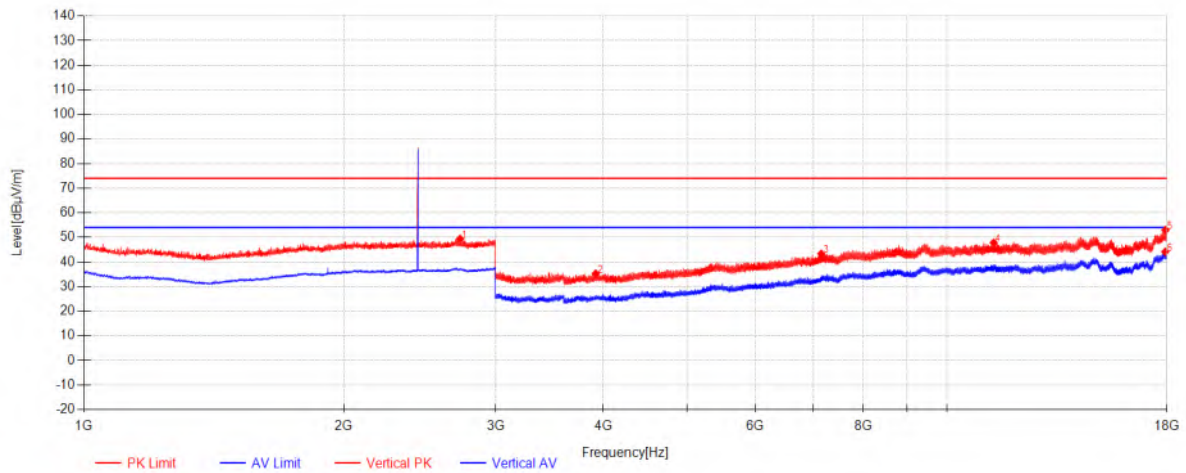
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2671.3333	45.08	27.51	-23.16	49.42	74.00	24.58	Vertical
2	4607.25	53.88	30.34	-48.00	36.22	74.00	37.78	Vertical
3	7199.25	54.80	35.86	-46.20	44.46	74.00	29.54	Vertical
4	9484.125	51.95	38.08	-42.48	47.55	74.00	26.45	Vertical
5	17874.375	47.11	44.05	-38.16	53.00	74.00	21.00	Vertical
6	17898	38.00	44.19	-38.15	44.04	54.00	9.96	Vertical

BLE_Melange_1M_TX_CH_20_Horizontal



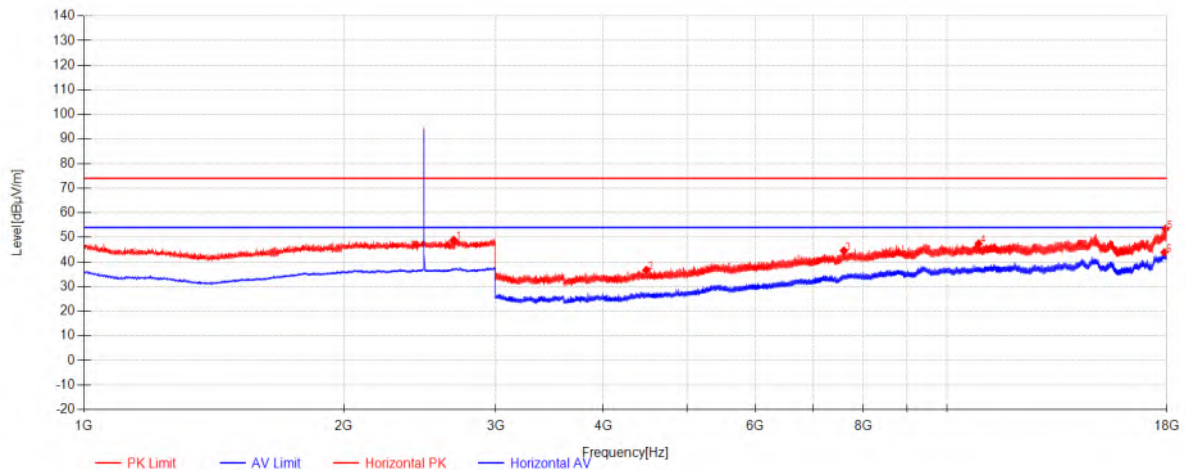
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2701.6667	44.72	27.56	-22.97	49.32	74.00	24.68	Horizontal
2	4213.875	55.02	29.64	-48.28	36.38	74.00	37.62	Horizontal
3	6684	53.31	34.99	-46.63	41.67	74.00	32.33	Horizontal
4	11104.875	48.20	39.49	-40.36	47.33	74.00	26.67	Horizontal
5	17875.5	47.24	44.05	-38.16	53.13	74.00	20.87	Horizontal
6	17860.125	38.22	43.96	-38.17	44.01	54.00	9.99	Horizontal

BLE_Melange_1M_TX_CH_20_Vertical



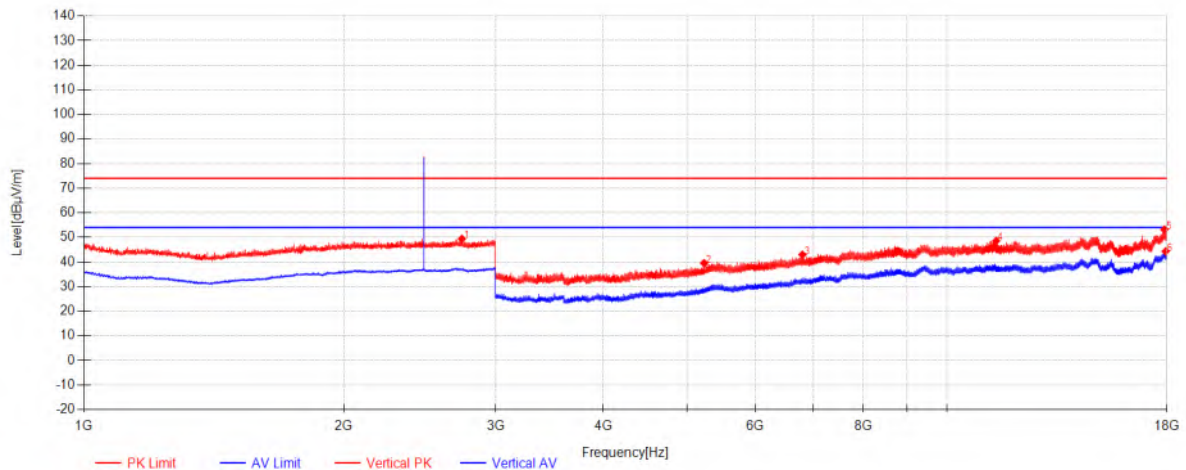
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2728	44.84	27.61	-23.05	49.40	74.00	24.60	Vertical
2	3917.25	54.35	29.17	-48.27	35.25	74.00	38.75	Vertical
3	7152.375	53.56	35.77	-46.02	43.31	74.00	30.69	Vertical
4	11330.25	48.69	39.47	-40.35	47.81	74.00	26.19	Vertical
5	17919	46.92	44.31	-38.29	52.94	74.00	21.06	Vertical
6	17909.25	38.05	44.26	-38.22	44.09	54.00	9.91	Vertical

BLE_Melange_1M_TX_CH_39_Horizontal



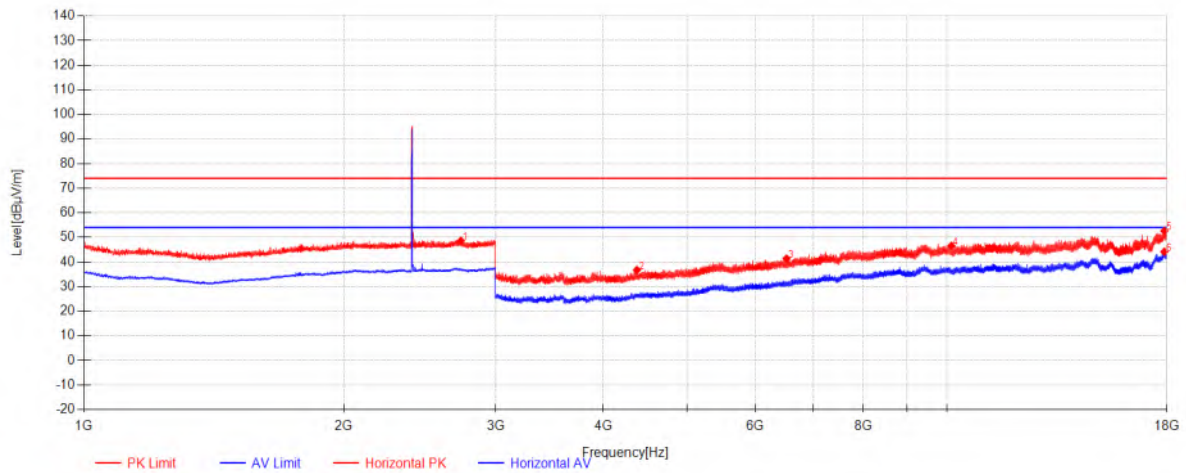
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2681.6667	44.51	27.53	-23.09	48.95	74.00	25.05	Horizontal
2	4483.875	54.61	30.07	-48.00	36.68	74.00	37.32	Horizontal
3	7595.625	52.84	36.38	-44.64	44.58	74.00	29.42	Horizontal
4	10884	48.14	39.42	-40.12	47.44	74.00	26.56	Horizontal
5	17925.375	47.43	44.35	-38.34	53.44	74.00	20.56	Horizontal
6	17872.875	37.99	44.04	-38.16	43.87	54.00	10.13	Horizontal

BLE_Melange_1M_TX_CH_39_Vertical



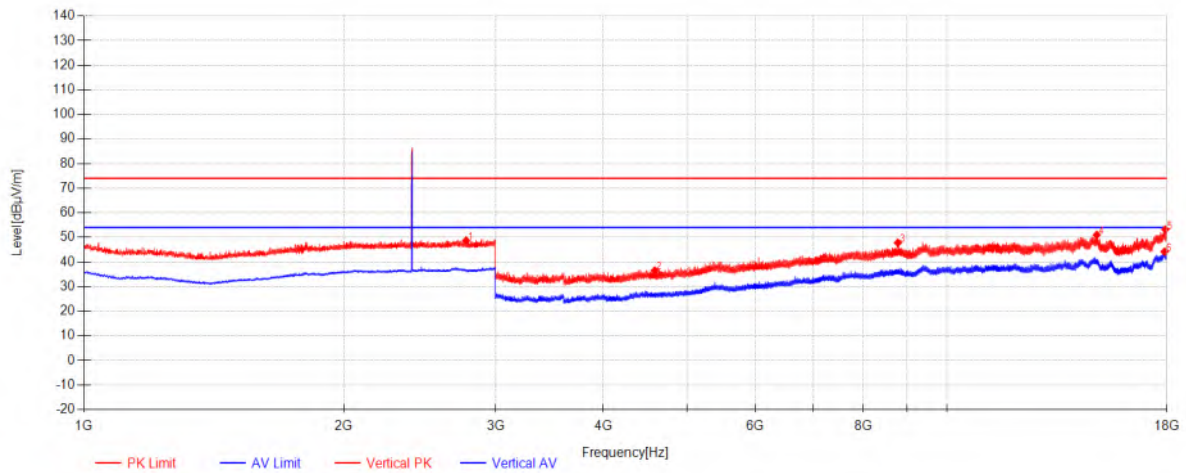
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2741.6667	44.86	27.64	-23.09	49.40	74.00	24.60	Vertical
2	5231.625	55.49	31.85	-47.86	39.48	74.00	34.52	Vertical
3	6802.125	54.64	35.18	-46.89	42.94	74.00	31.06	Vertical
4	11406	49.18	39.46	-40.08	48.56	74.00	25.44	Vertical
5	17868.375	47.32	44.01	-38.16	53.17	74.00	20.83	Vertical
6	17926.125	38.26	44.36	-38.35	44.27	54.00	9.73	Vertical

BLE_Melange_2M_TX_CH_00_Horizontal



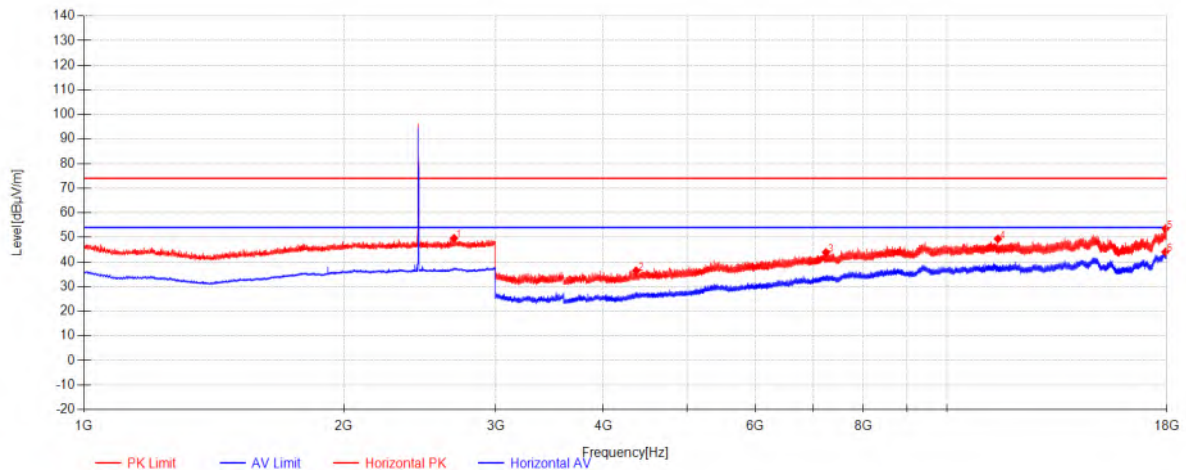
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2733.6667	44.06	27.62	-23.07	48.61	74.00	25.39	Horizontal
2	4373.625	54.87	29.90	-48.02	36.74	74.00	37.26	Horizontal
3	6519	53.61	34.73	-47.00	41.34	74.00	32.66	Horizontal
4	10121.25	49.54	38.88	-41.93	46.50	74.00	27.50	Horizontal
5	17866.875	46.76	44.00	-38.16	52.60	74.00	21.40	Horizontal
6	17869.5	38.29	44.02	-38.16	44.14	54.00	9.86	Horizontal

BLE_Melange_2M_TX_CH_00_Vertical



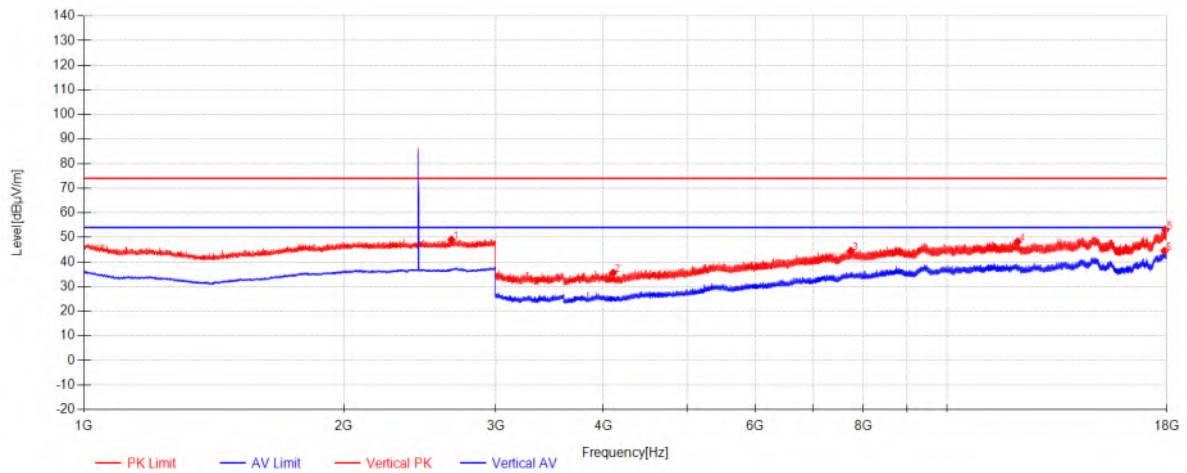
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2772.3333	44.16	27.69	-23.19	48.66	74.00	25.34	Vertical
2	4586.625	54.23	30.29	-48.00	36.52	74.00	37.48	Vertical
3	8776.875	54.68	37.15	-44.02	47.81	74.00	26.19	Vertical
4	14918.625	48.27	40.21	-37.49	50.99	74.00	23.01	Vertical
5	17913	47.18	44.28	-38.25	53.21	74.00	20.79	Vertical
6	17881.5	38.22	44.09	-38.16	44.15	54.00	9.85	Vertical

BLE_Melange_2M_TX_CH_20_Horizontal



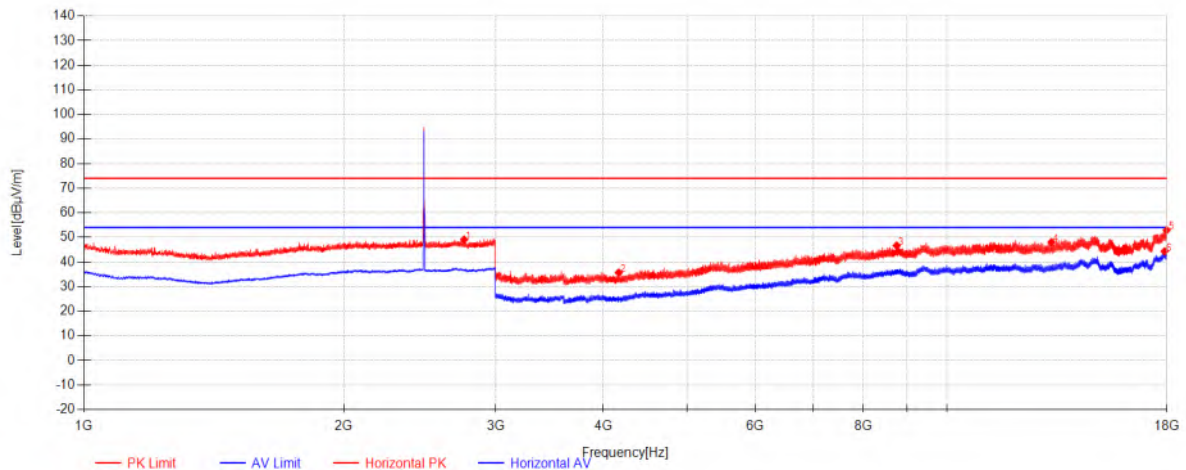
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2684.3333	45.19	27.53	-23.07	49.65	74.00	24.35	Horizontal
2	4364.25	54.57	29.88	-47.99	36.46	74.00	37.54	Horizontal
3	7243.125	54.14	35.94	-46.18	43.89	74.00	30.11	Horizontal
4	11460.375	50.00	39.45	-40.07	49.39	74.00	24.61	Horizontal
5	17922	47.50	44.33	-38.32	53.52	74.00	20.48	Horizontal
6	17914.125	38.04	44.28	-38.26	44.07	54.00	9.93	Horizontal

BLE_Melange_2M_TX_CH_20_Vertical



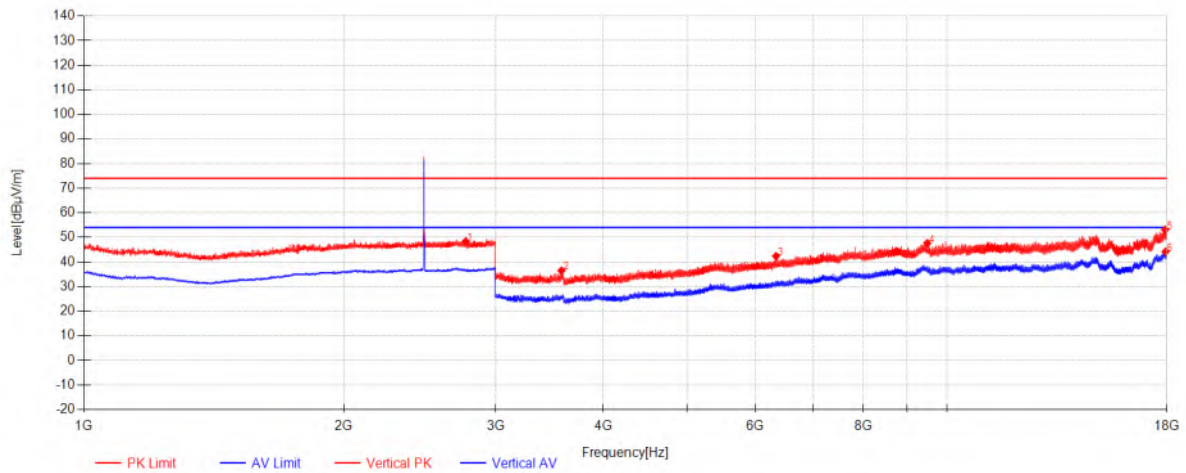
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2665.3333	44.75	27.50	-23.21	49.04	74.00	24.96	Vertical
2	4103.25	54.11	29.47	-48.07	35.51	74.00	38.49	Vertical
3	7739.25	53.23	36.35	-45.09	44.49	74.00	29.51	Vertical
4	12079.875	48.47	39.35	-39.59	48.23	74.00	25.77	Vertical
5	17915.625	47.02	44.29	-38.27	53.05	74.00	20.95	Vertical
6	17878.875	38.57	44.07	-38.16	44.48	54.00	9.52	Vertical

BLE_Melange_2M_TX_CH_39_Horizontal



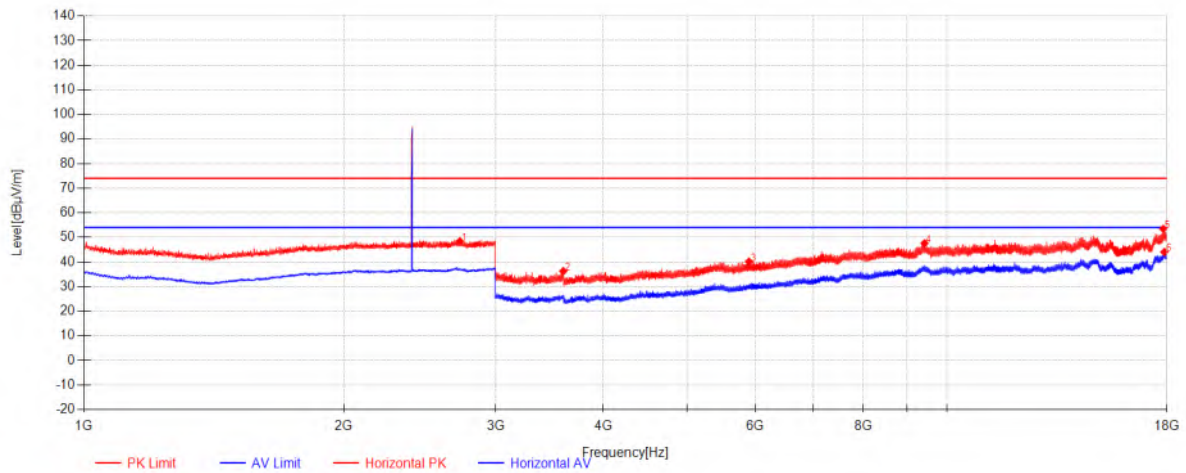
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2757.3333	44.56	27.66	-23.14	49.08	74.00	24.92	Horizontal
2	4166.25	54.34	29.57	-48.26	35.65	74.00	38.35	Horizontal
3	8746.125	53.58	37.12	-44.06	46.64	74.00	27.36	Horizontal
4	13221	47.67	39.13	-38.78	48.02	74.00	25.98	Horizontal
5	17980.875	46.98	44.69	-38.76	52.91	74.00	21.09	Horizontal
6	17879.25	38.36	44.08	-38.16	44.28	54.00	9.72	Horizontal

BLE_Melange_2M_TX_CH_39_Vertical



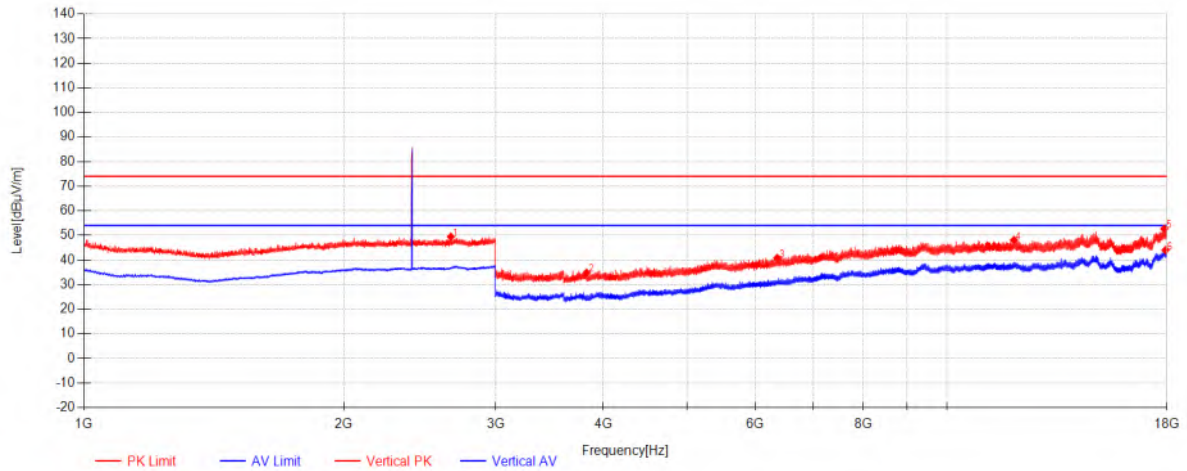
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2769.6667	43.85	27.69	-23.18	48.35	74.00	25.65	Vertical
2	3575.625	56.13	28.62	-48.28	36.47	74.00	37.53	Vertical
3	6339.375	55.43	34.09	-47.17	42.35	74.00	31.65	Vertical
4	9493.125	51.96	38.09	-42.42	47.63	74.00	26.37	Vertical
5	17902.875	47.05	44.22	-38.17	53.10	74.00	20.90	Vertical
6	17923.125	38.12	44.34	-38.32	44.14	54.00	9.86	Vertical

BLE_Murata_1M_TX_CH_00_Horizontal



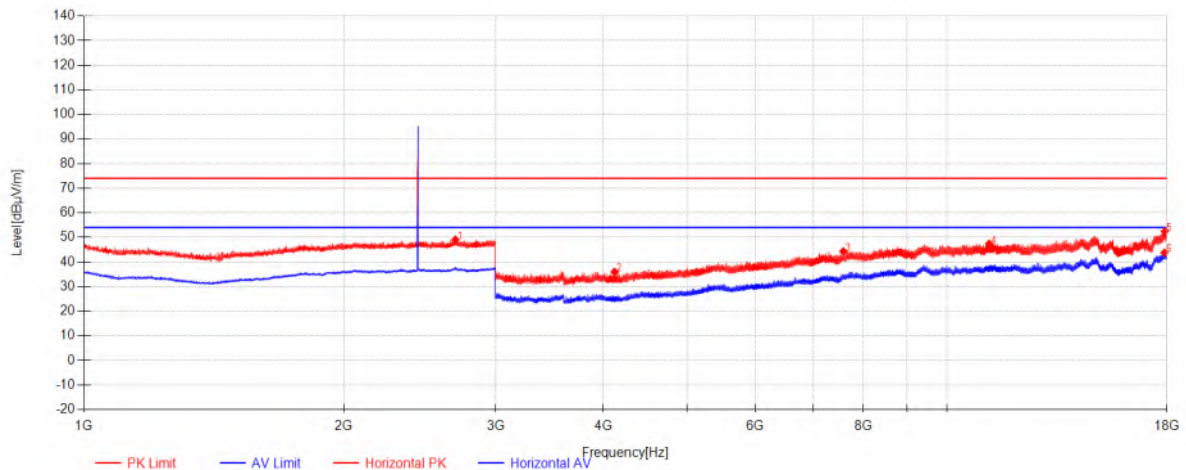
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2726.3333	43.83	27.61	-23.04	48.39	74.00	25.61	Horizontal
2	3592.125	55.85	28.65	-48.28	36.22	74.00	37.78	Horizontal
3	5896.5	54.52	32.76	-47.17	40.11	74.00	33.89	Horizontal
4	9421.125	52.48	37.99	-42.91	47.56	74.00	26.44	Horizontal
5	17814.75	47.97	43.69	-38.18	53.47	74.00	20.53	Horizontal
6	17871	38.16	44.03	-38.16	44.02	54.00	9.98	Horizontal

BLE_Murata_1M_TX_CH_00_Vertical



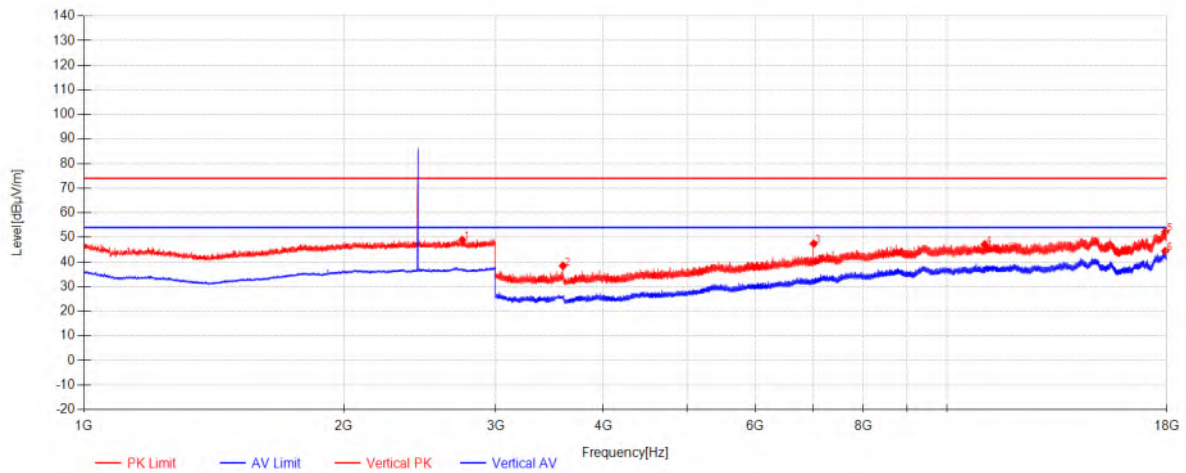
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2661.3333	45.18	27.49	-23.23	49.44	74.00	24.56	Vertical
2	3822.75	53.95	29.02	-48.21	34.76	74.00	39.24	Vertical
3	6358.875	53.72	34.16	-47.09	40.79	74.00	33.21	Vertical
4	11959.5	48.31	39.40	-39.65	48.06	74.00	25.94	Vertical
5	17863.5	46.83	43.98	-38.16	52.65	74.00	21.35	Vertical
6	17918.625	37.97	44.31	-38.29	43.99	54.00	10.01	Vertical

BLE_Murata_1M_TX_CH_19_Horizontal



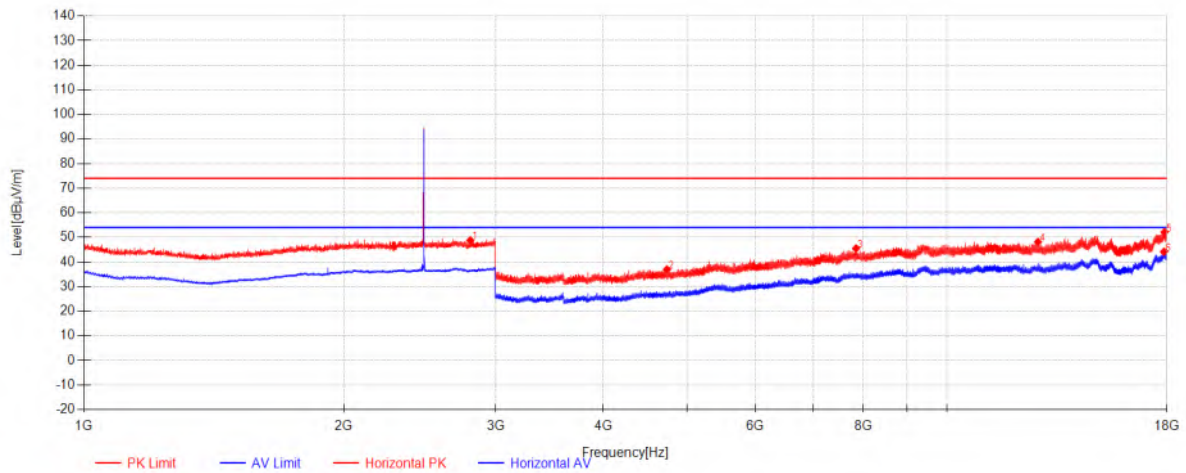
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2694.6667	44.46	27.55	-23.00	49.01	74.00	24.99	Horizontal
2	4119	54.58	29.49	-48.12	35.95	74.00	38.05	Horizontal
3	7584.75	52.69	36.38	-44.81	44.26	74.00	29.74	Horizontal
4	11192.25	48.23	39.48	-40.34	47.37	74.00	26.63	Horizontal
5	17890.875	46.41	44.15	-38.15	52.40	74.00	21.60	Horizontal
6	17871.75	37.87	44.03	-38.16	43.74	54.00	10.26	Horizontal

BLE_Murata_1M_TX_CH_19_Vertical



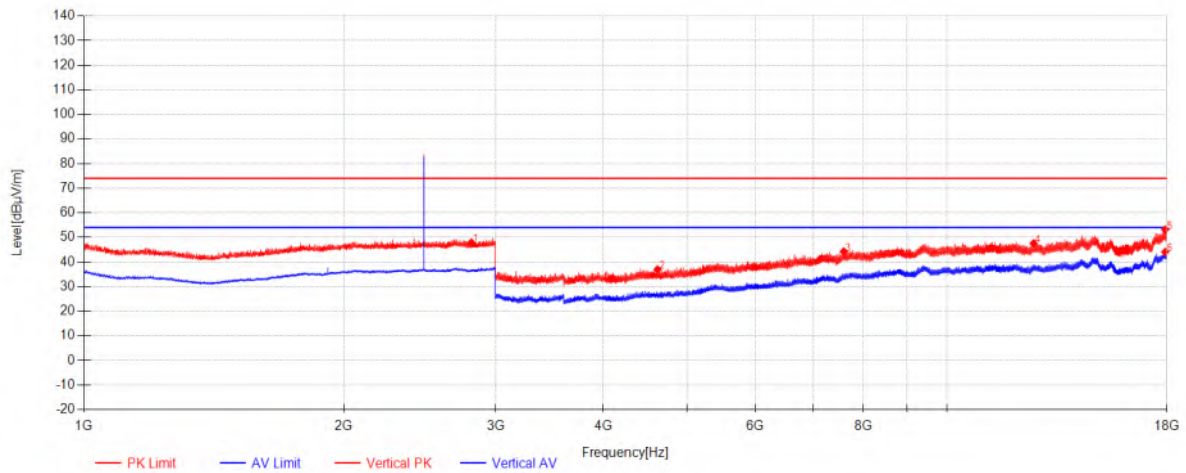
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2744.6667	44.41	27.64	-23.10	48.95	74.00	25.05	Vertical
2	3590.25	58.04	28.64	-48.28	38.40	74.00	35.60	Vertical
3	7009.875	58.44	35.52	-46.52	47.43	74.00	26.57	Vertical
4	11060.625	48.08	39.49	-40.49	47.08	74.00	26.92	Vertical
5	17915.625	46.22	44.29	-38.27	52.25	74.00	21.75	Vertical
6	17912.25	38.39	44.27	-38.24	44.42	54.00	9.58	Vertical

BLE_Murata_1M_TX_CH_39_Horizontal



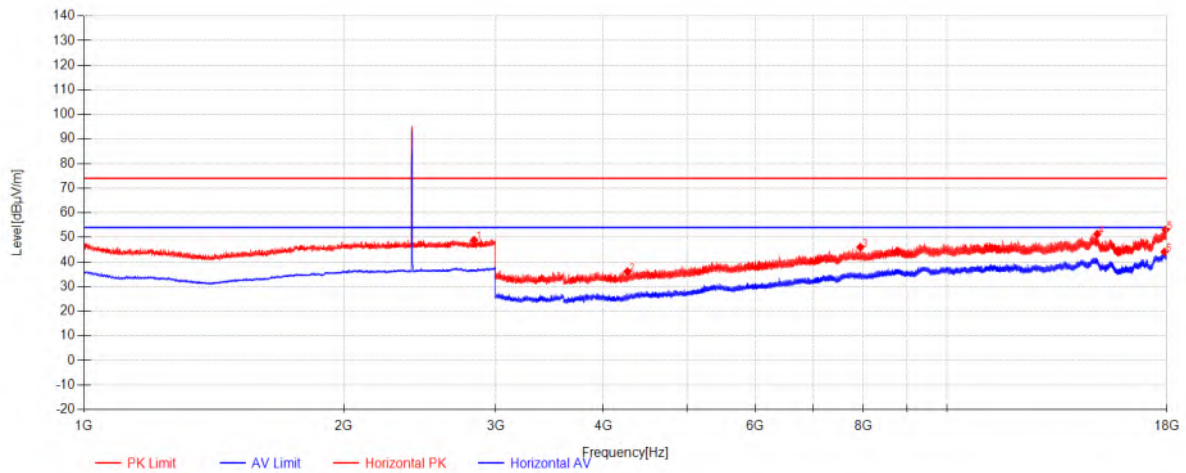
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2804	44.31	27.75	-23.27	48.79	74.00	25.21	Horizontal
2	4737.375	54.26	30.62	-47.98	36.90	74.00	37.10	Horizontal
3	7848	54.33	36.33	-45.17	45.49	74.00	28.51	Horizontal
4	12753.375	48.47	38.95	-39.29	48.13	74.00	25.87	Horizontal
5	17875.5	46.22	44.05	-38.16	52.11	74.00	21.89	Horizontal
6	17851.125	38.37	43.91	-38.17	44.11	54.00	9.89	Horizontal

BLE_Murata_1M_TX_CH_39_Vertical



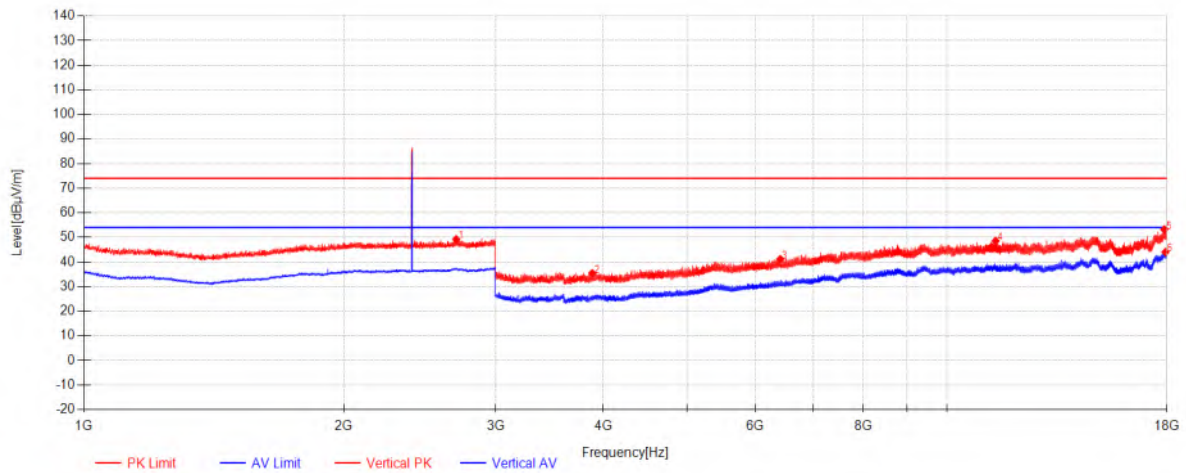
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2811	43.38	27.76	-23.25	47.89	74.00	26.11	Vertical
2	4619.625	54.54	30.36	-47.99	36.91	74.00	37.09	Vertical
3	7594.875	52.48	36.38	-44.65	44.21	74.00	29.79	Vertical
4	12606.375	47.52	39.04	-39.01	47.55	74.00	26.45	Vertical
5	17907	47.15	44.24	-38.20	53.19	74.00	20.81	Vertical
6	17907.75	38.01	44.25	-38.21	44.05	54.00	9.95	Vertical

BLE_Murata_2M_TX_CH_00_Horizontal



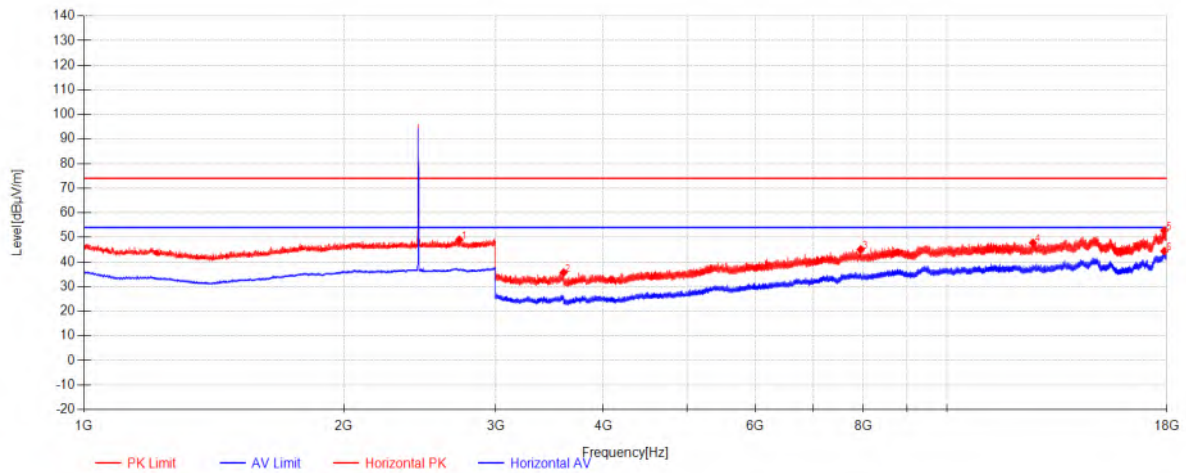
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2831.6667	44.25	27.80	-23.19	48.86	74.00	25.14	Horizontal
2	4263.375	54.35	29.72	-47.99	36.08	74.00	37.92	Horizontal
3	7938	54.68	36.31	-45.01	45.98	74.00	28.02	Horizontal
4	14937.75	48.71	40.21	-37.61	51.31	74.00	22.69	Horizontal
5	17923.125	47.03	44.34	-38.32	53.05	74.00	20.95	Horizontal
6	17875.875	38.16	44.06	-38.16	44.06	54.00	9.94	Horizontal

BLE_Murata_2M_TX_CH_00_Vertical



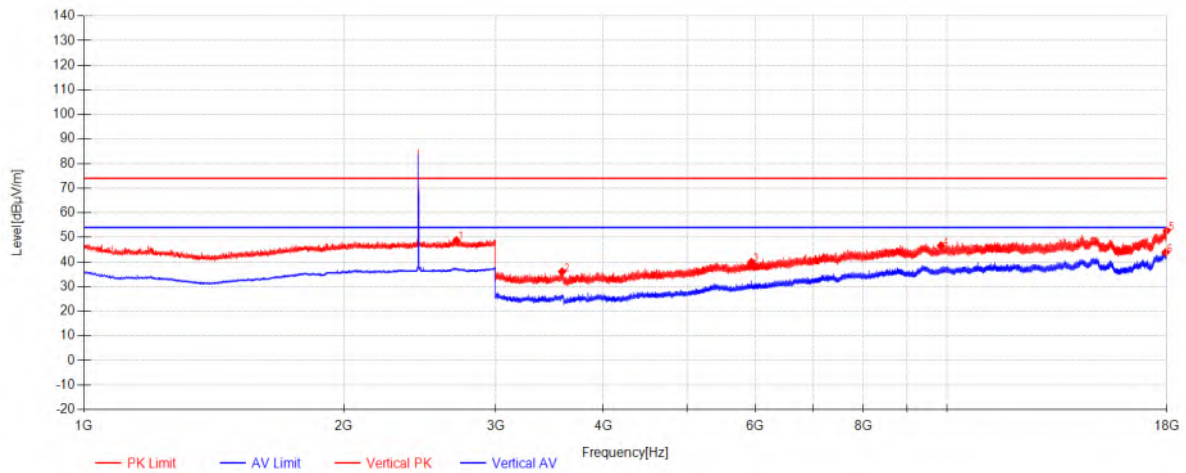
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2699.6667	44.65	27.56	-22.96	49.25	74.00	24.75	Vertical
2	3881.625	54.58	29.11	-48.27	35.42	74.00	38.58	Vertical
3	6410.625	53.70	34.36	-46.94	41.12	74.00	32.88	Vertical
4	11389.5	49.20	39.46	-40.12	48.54	74.00	25.46	Vertical
5	17865.375	47.39	43.99	-38.16	53.22	74.00	20.78	Vertical
6	17917.875	37.98	44.31	-38.28	44.00	54.00	10.00	Vertical

BLE_Murata_2M_TX_CH_19_Horizontal



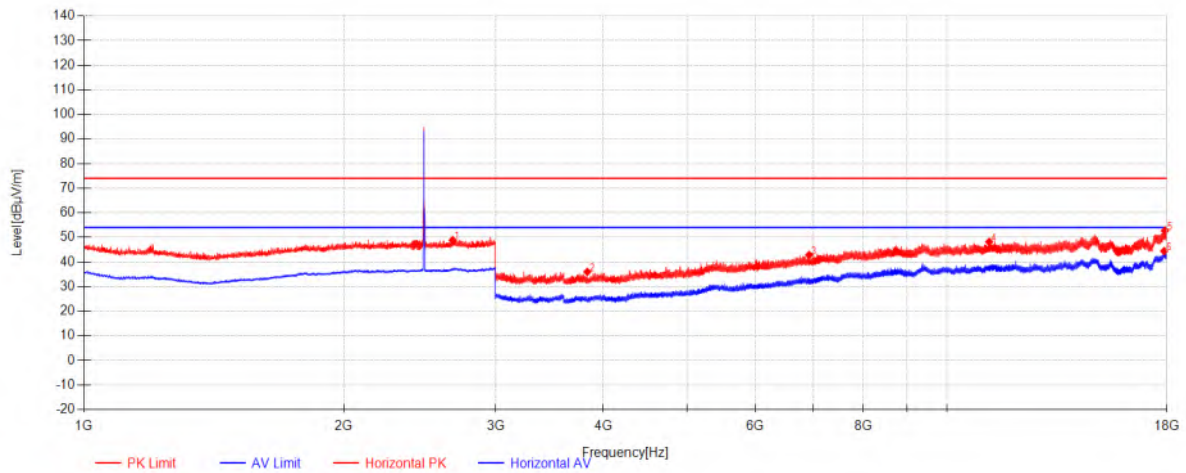
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2722.6667	44.48	27.60	-23.03	49.05	74.00	24.95	Horizontal
2	3595.5	55.31	28.65	-48.28	35.68	74.00	38.32	Horizontal
3	7947	53.64	36.31	-44.91	45.04	74.00	28.96	Horizontal
4	12582.75	47.85	39.05	-39.15	47.76	74.00	26.24	Horizontal
5	17865.75	46.92	43.99	-38.16	52.75	74.00	21.25	Horizontal
6	17867.625	38.55	44.01	-38.16	44.39	54.00	9.61	Horizontal

BLE_Murata_2M_TX_CH_19_Vertical



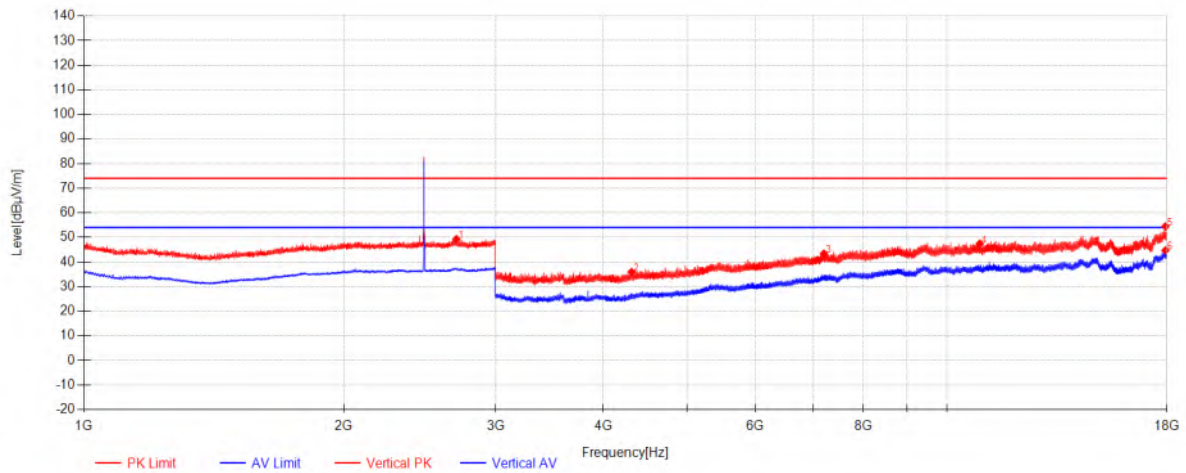
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2701.3333	44.20	27.56	-22.96	48.80	74.00	25.20	Vertical
2	3581.25	55.71	28.63	-48.28	36.06	74.00	37.94	Vertical
3	5934.75	54.41	32.77	-47.27	39.91	74.00	34.09	Vertical
4	9843.375	50.24	38.58	-42.16	46.66	74.00	27.34	Vertical
5	17985.375	46.82	44.71	-38.79	52.74	74.00	21.26	Vertical
6	17926.875	37.88	44.36	-38.35	43.89	54.00	10.11	Vertical

BLE_Murata_2M_TX_CH_39_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2674.3333	44.50	27.51	-23.14	48.87	74.00	25.13	Horizontal
2	3830.625	55.14	29.03	-48.21	35.96	74.00	38.04	Horizontal
3	6925.5	54.16	35.38	-46.70	42.84	74.00	31.16	Horizontal
4	11196.75	49.00	39.48	-40.34	48.14	74.00	25.86	Horizontal
5	17896.5	46.67	44.18	-38.15	52.70	74.00	21.30	Horizontal
6	17859.375	38.62	43.96	-38.17	44.41	54.00	9.59	Horizontal

BLE_Murata_2M_TX_CH_39_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2702	44.66	27.56	-22.97	49.26	74.00	24.74	Vertical
2	4311.375	53.91	29.80	-47.82	35.89	74.00	38.11	Vertical
3	7201.5	53.70	35.86	-46.20	43.36	74.00	30.64	Vertical
4	10917	48.08	39.44	-40.13	47.39	74.00	26.61	Vertical
5	17917.5	48.42	44.31	-38.28	54.44	74.00	19.56	Vertical
6	17916.375	38.66	44.30	-38.27	44.69	54.00	9.31	Vertical



7.4 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10-2020/Cor1-2023 Section 11.9

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

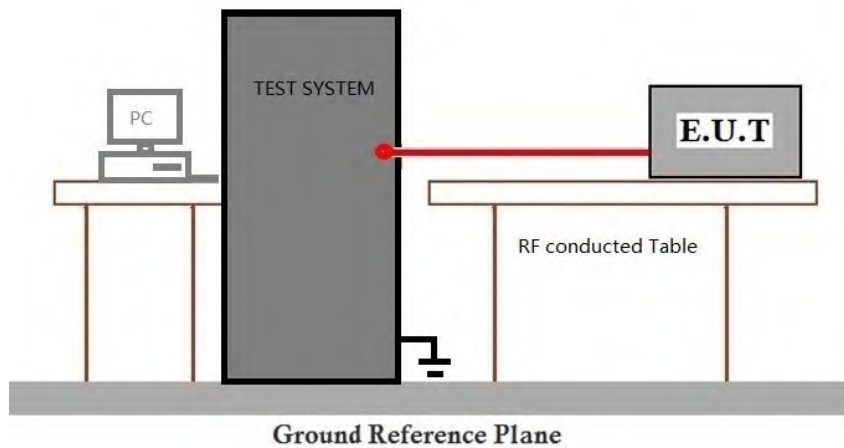
Humidity: 42 % RH

Atmospheric Pressure: 1021 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Murata_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	10	Melange_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

7.5 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
Test Method: ANSI C63.10-2020/Cor1-2023 Section 11.8.1

Limit: ≥ 500 kHz

7.5.1 E.U.T. Operation

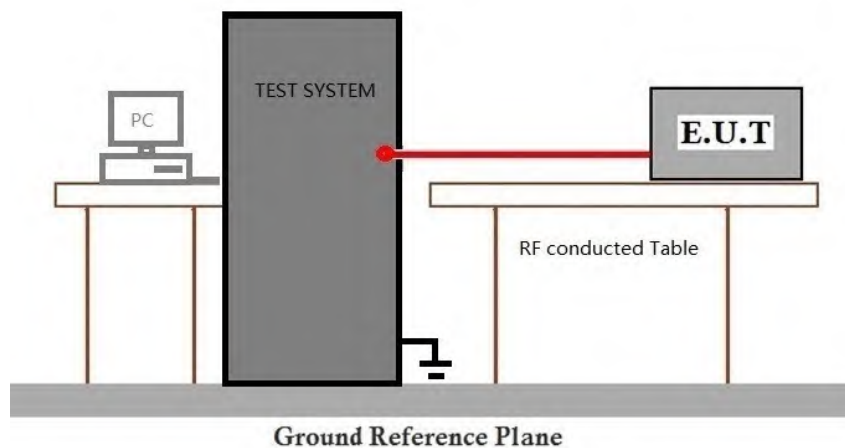
Operating Environment:

Temperature: 23 °C Humidity: 42 % RH Atmospheric Pressure: 1021 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	Melange_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10-2020/Cor1-2023 Section 11.10

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

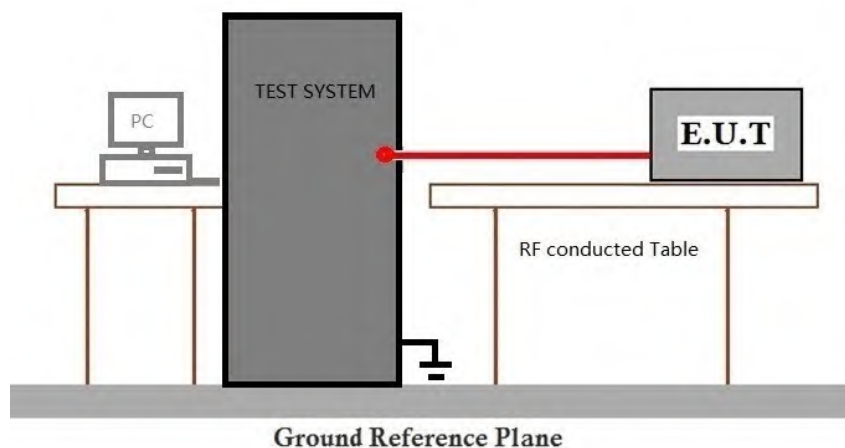
Humidity: 41 % RH

Atmospheric Pressure: 1021 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	Melange_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10-2020/Cor1-2023 Section 6.10.4

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C

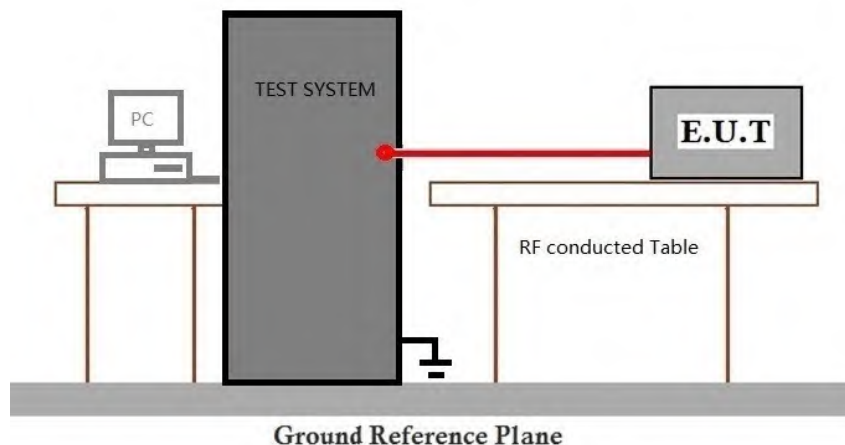
Humidity: 42 % RH

Atmospheric Pressure: 1021 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	Melange_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10-2020/Cor1-2023 Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.8.1 E.U.T. Operation

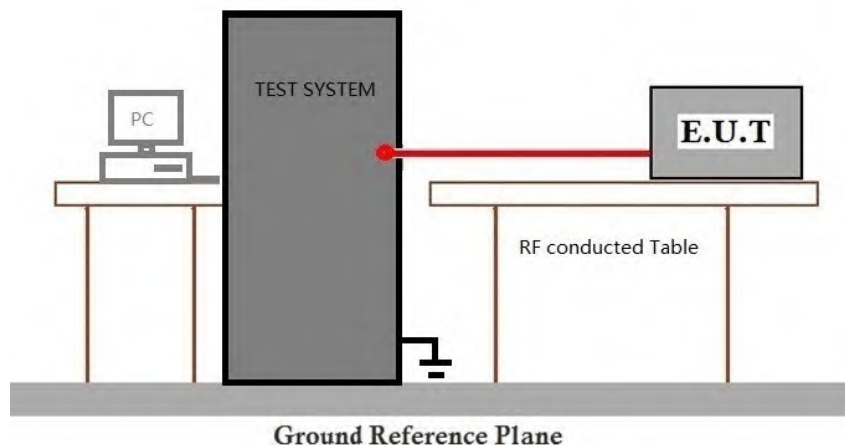
Operating Environment:

Temperature: 22 °C Humidity: 43 % RH Atmospheric Pressure: 1021 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	Melange_TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



Report No.: SUCR260100007402

Page: 83 of 106

8 Test Setup Photo

Refer to Appendix_Photos of Test Setup for SUCR2601000074AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix_External Photos for SUCR2601000074AT and Appendix_Internal Photos for SUCR2601000074AT

10 Appendix

BLE Murata:

1. Maximum Conducted Output Power

1.1 Test Result

1.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT2	Limit	
1M	SISO	2402	10.30	<=30	Pass
		2440	10.20	<=30	Pass
		2480	10.28	<=30	Pass
2M	SISO	2402	10.35	<=30	Pass
		2440	10.21	<=30	Pass
		2480	9.89	<=30	Pass

Note1: Antenna Gain: Ant2: 0.5dBi;



BLE Melange:

1. Duty Cycle

1.1 Test Result

1.1.1 ANT3

ANT3							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.280	1.366	20.50	6.88	0.03
2M	SISO	2402	0.154	1.240	12.42	9.06	0.03



2. Bandwidth

2.1 Test Result

2.1.1 OBW

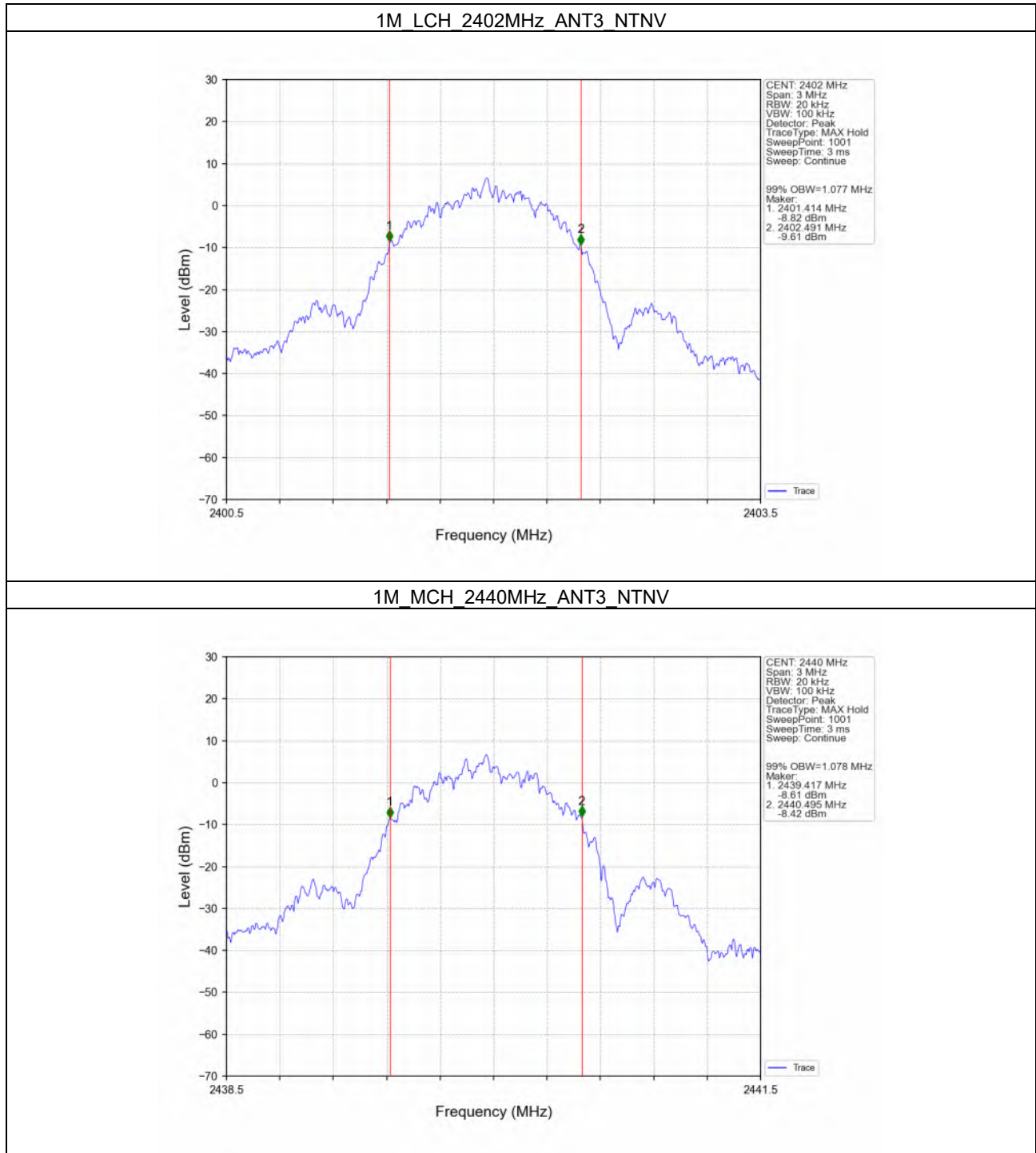
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	3	1.077	/	Pass
		2440	3	1.078	/	Pass
		2480	3	1.082	/	Pass
2M	SISO	2402	3	2.055	/	Pass
		2440	3	2.071	/	Pass
		2480	3	2.031	/	Pass

2.1.2 6dB BW

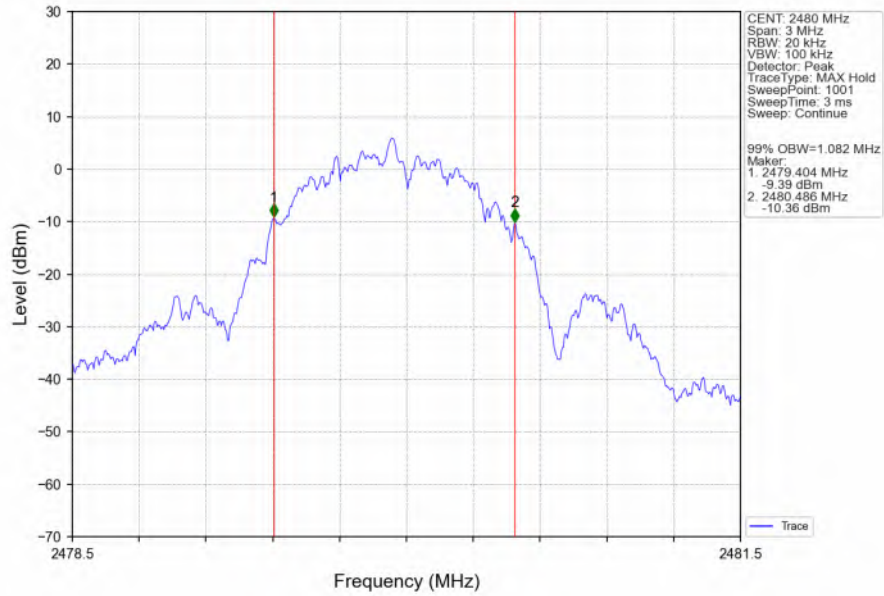
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	3	0.690	≥ 0.5	Pass
		2440	3	0.700	≥ 0.5	Pass
		2480	3	0.680	≥ 0.5	Pass
2M	SISO	2402	3	1.095	≥ 0.5	Pass
		2440	3	1.126	≥ 0.5	Pass
		2480	3	1.117	≥ 0.5	Pass

2.2 Test Graph

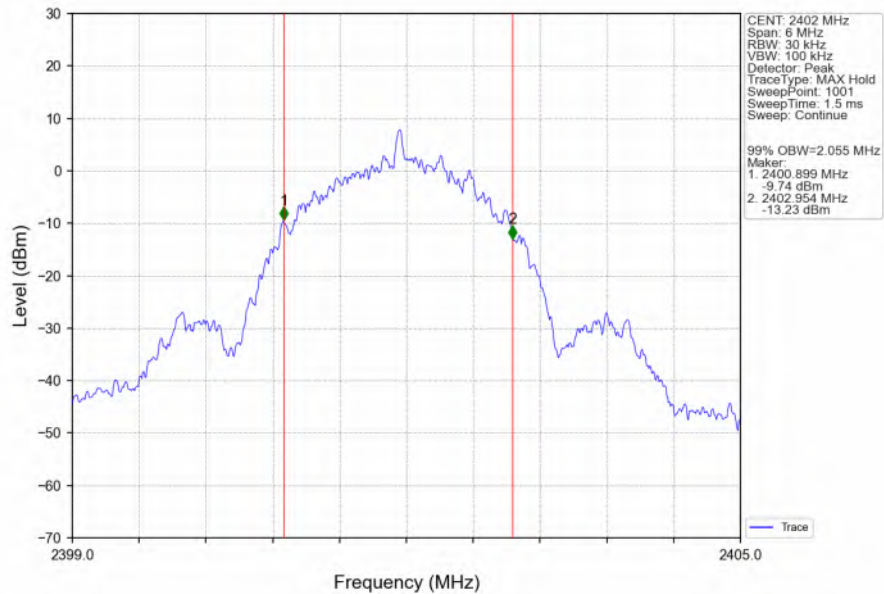
2.2.1 OBW



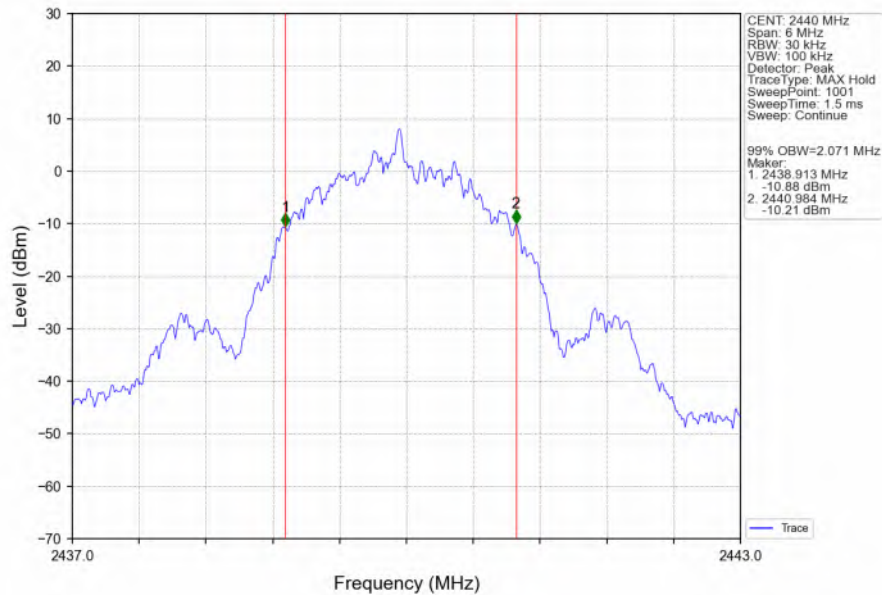
1M_HCH_2480MHz_ANT3_NTNV



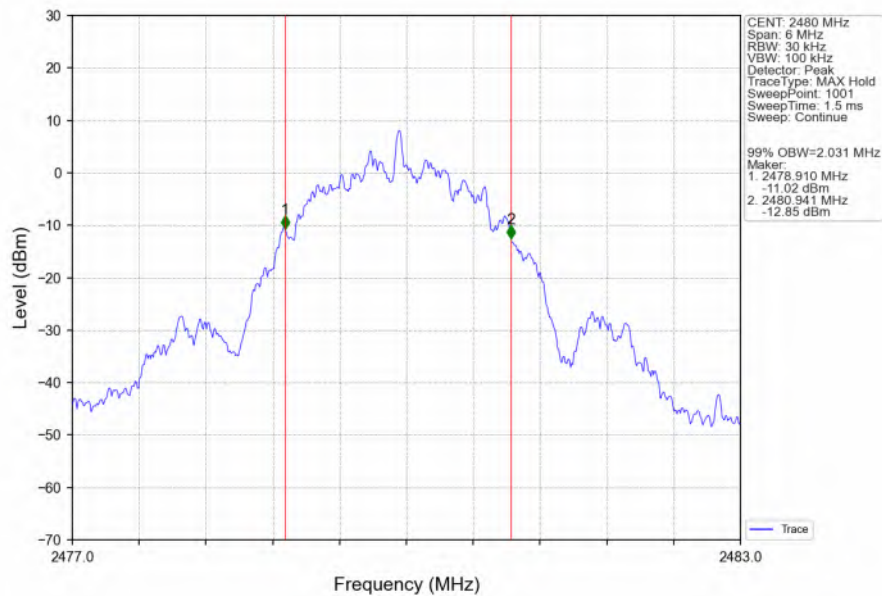
2M_LCH_2402MHz_ANT3_NTNV



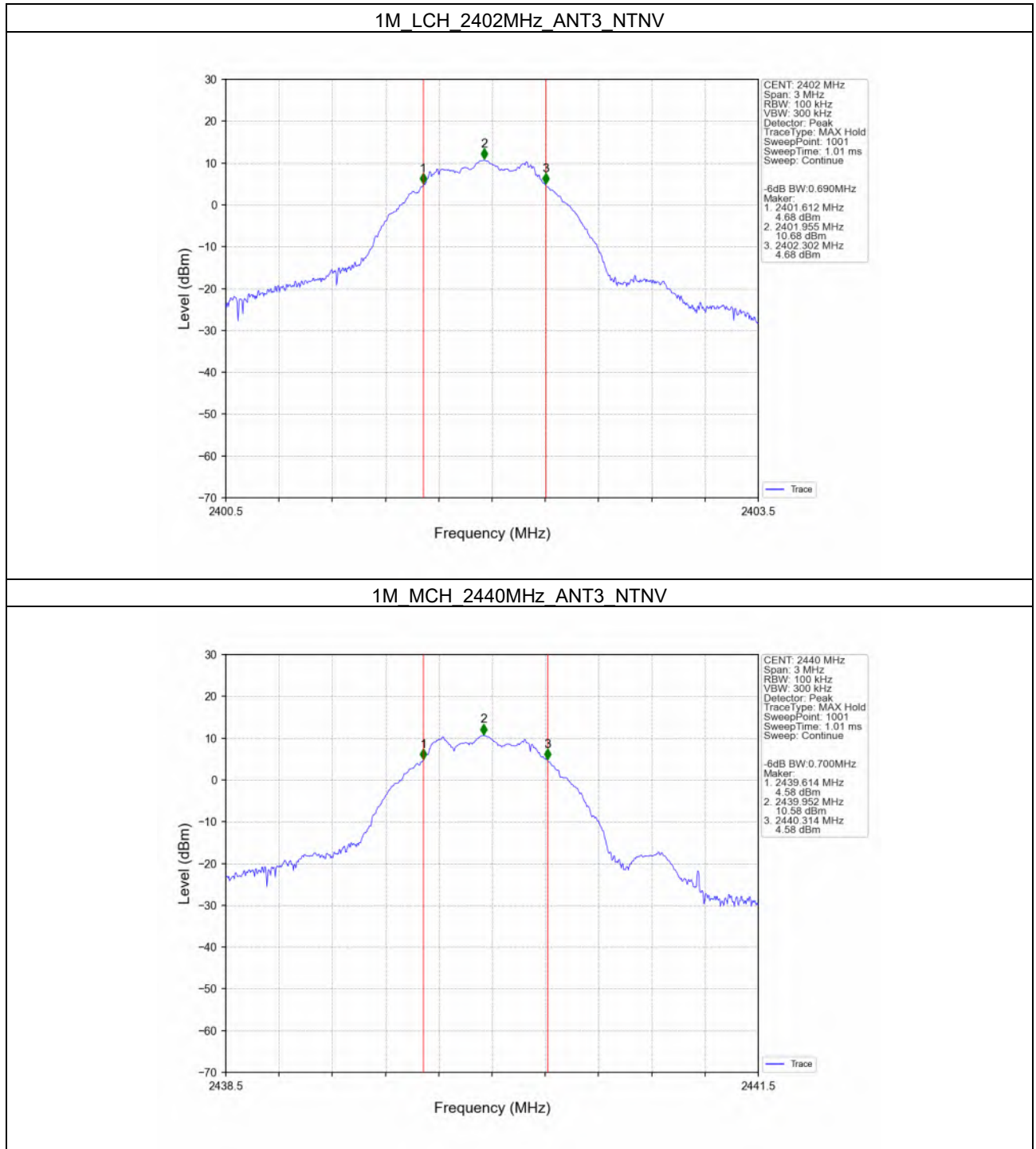
2M_MCH_2440MHz_ANT3_NTNV



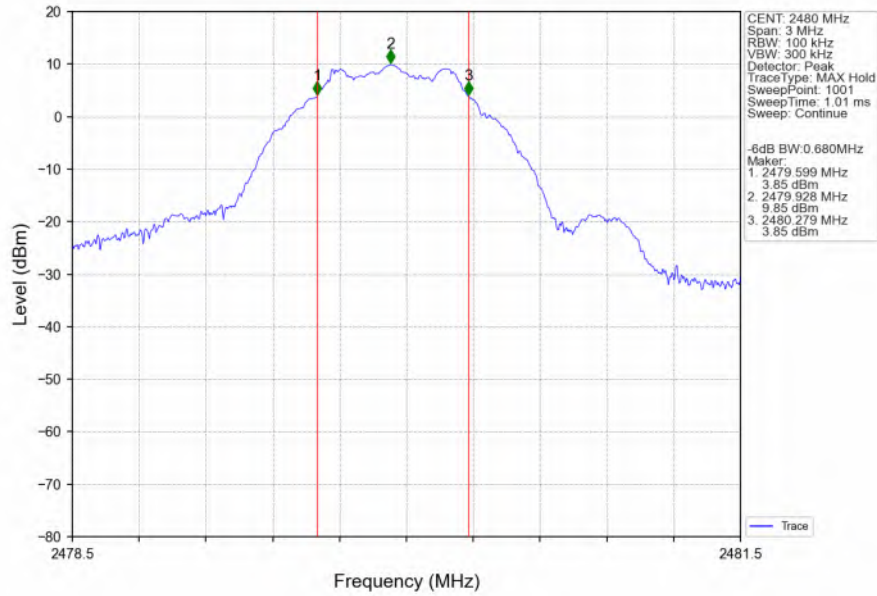
2M_HCH_2480MHz_ANT3_NTNV



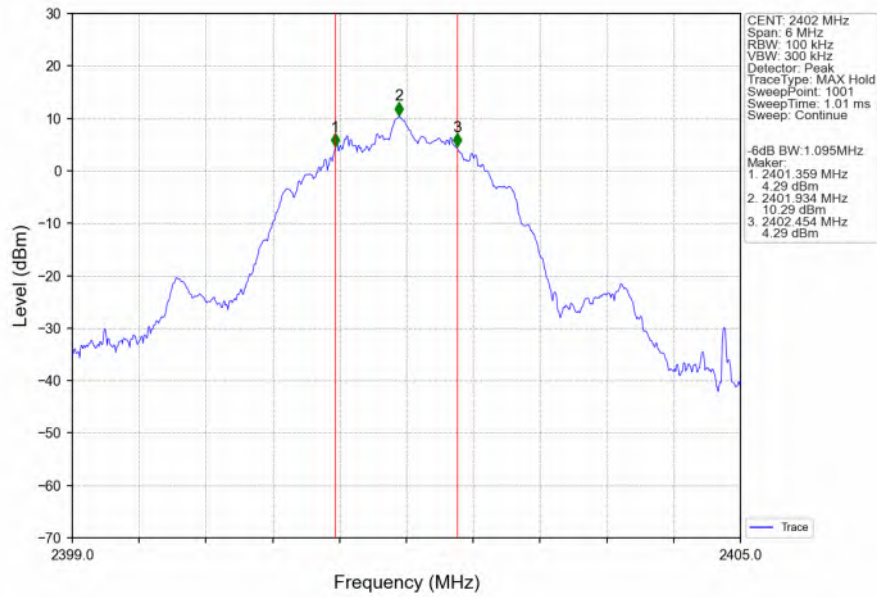
2.2.2 6dB BW



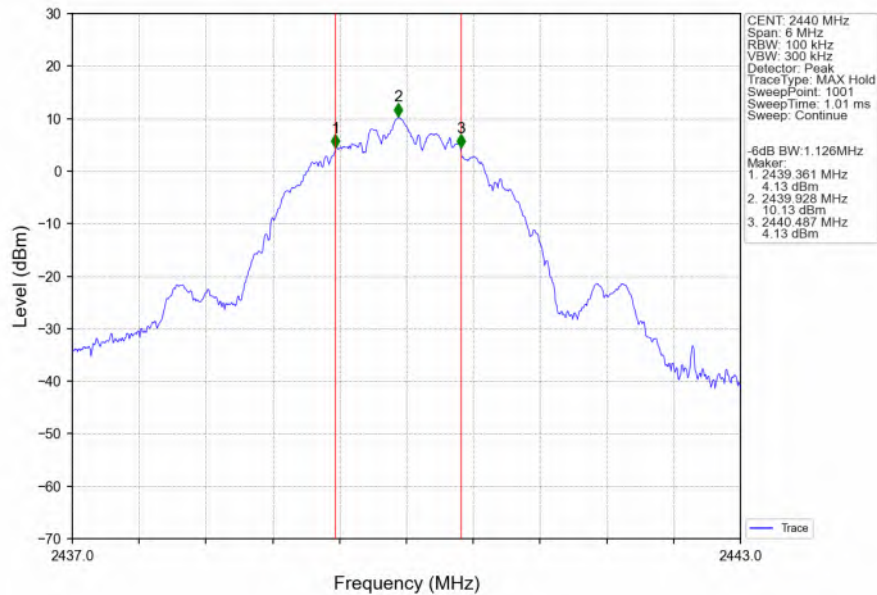
1M_HCH_2480MHz_ANT3_NTNV



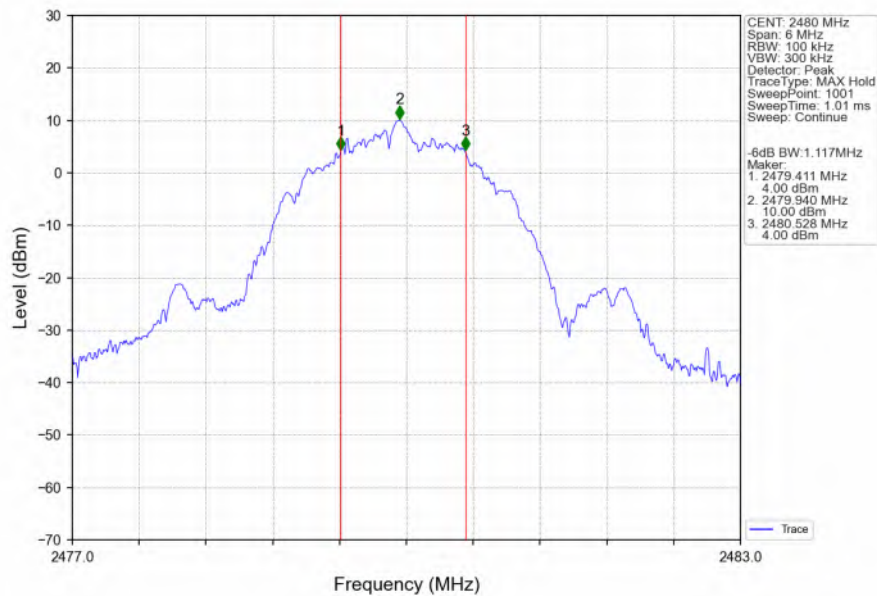
2M_LCH_2402MHz_ANT3_NTNV



2M_MCH_2440MHz_ANT3_NTNV



2M_HCH_2480MHz_ANT3_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT3	Limit	
S2	SISO	2402	10.77	<=30	Pass
		2440	10.72	<=30	Pass
		2480	9.89	<=30	Pass
S8	SISO	2402	10.80	<=30	Pass
		2440	10.73	<=30	Pass
		2480	9.90	<=30	Pass
1M	SISO	2402	10.84	<=30	Pass
		2440	10.75	<=30	Pass
		2480	9.94	<=30	Pass
2M	SISO	2402	10.46	<=30	Pass
		2440	10.35	<=30	Pass
		2480	10.17	<=30	Pass

Note1: Antenna Gain: ANT3: 0.00dBi;



4. Maximum Power Spectral Density

4.1 Test Result

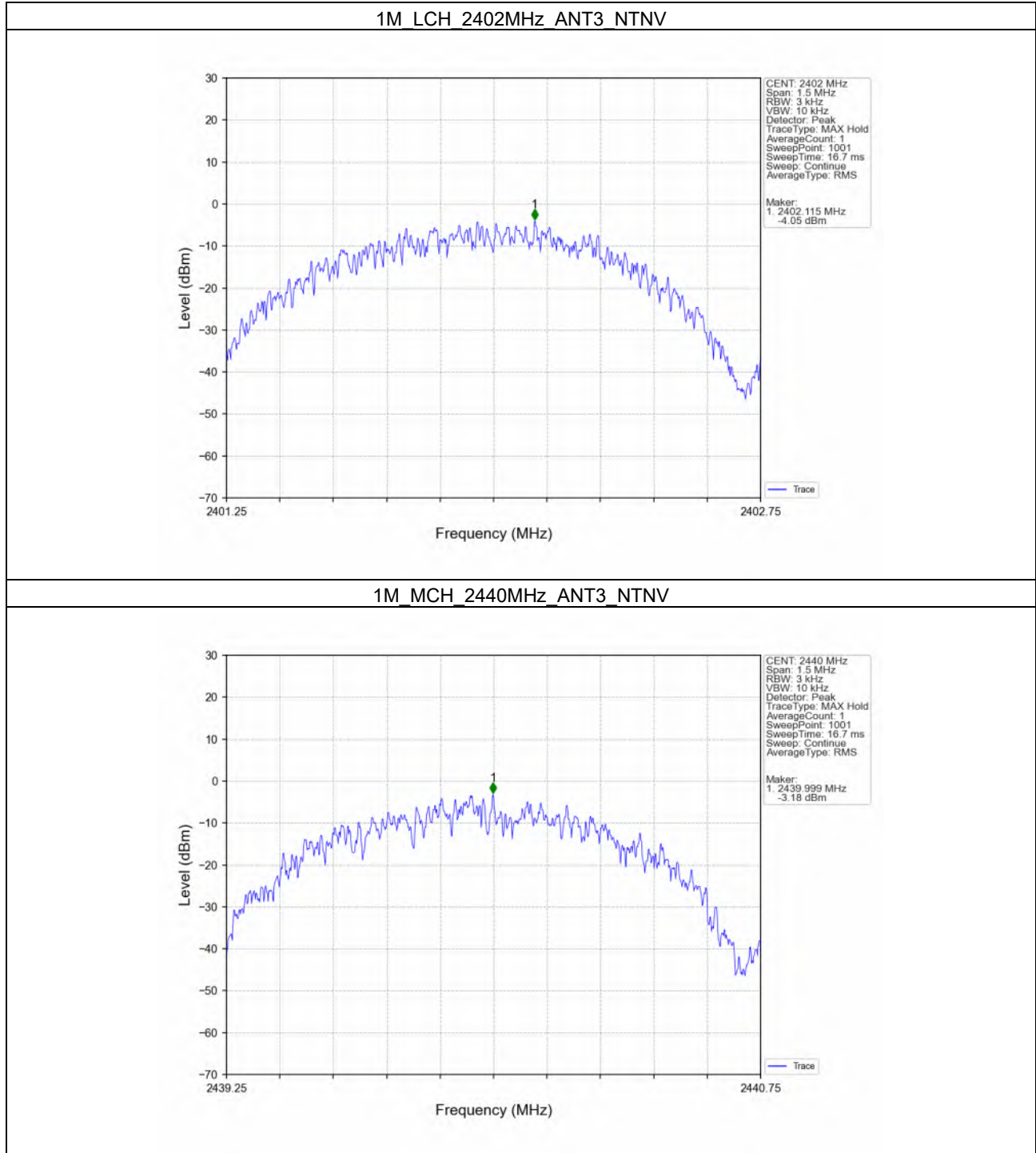
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT3	Limit	
1M	SISO	2402	-4.05	<=8	Pass
		2440	-3.18	<=8	Pass
		2480	-4.00	<=8	Pass
2M	SISO	2402	-5.87	<=8	Pass
		2440	-7.20	<=8	Pass
		2480	-7.76	<=8	Pass

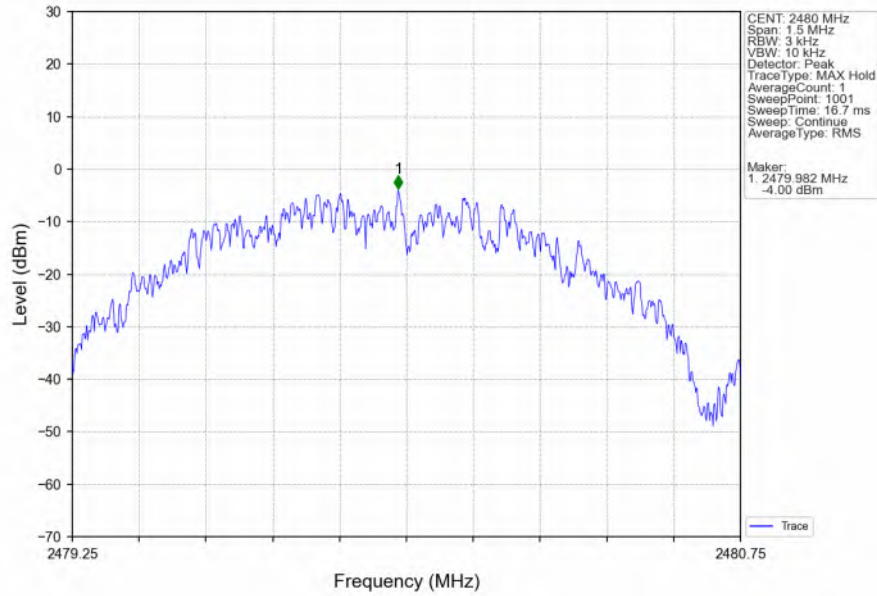
Note1: Antenna Gain: ANT3: 0.00dBi;

4.2 Test Graph

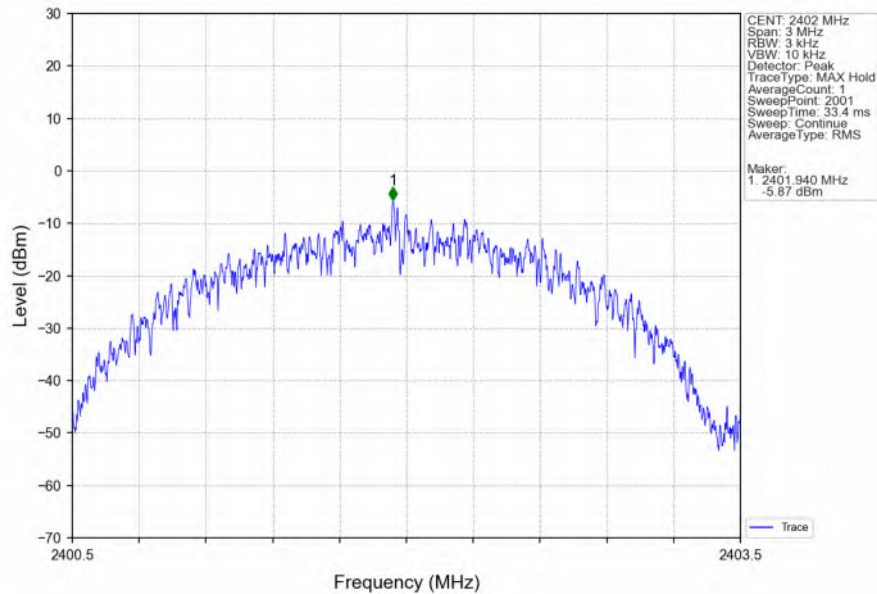
4.2.1 PSD



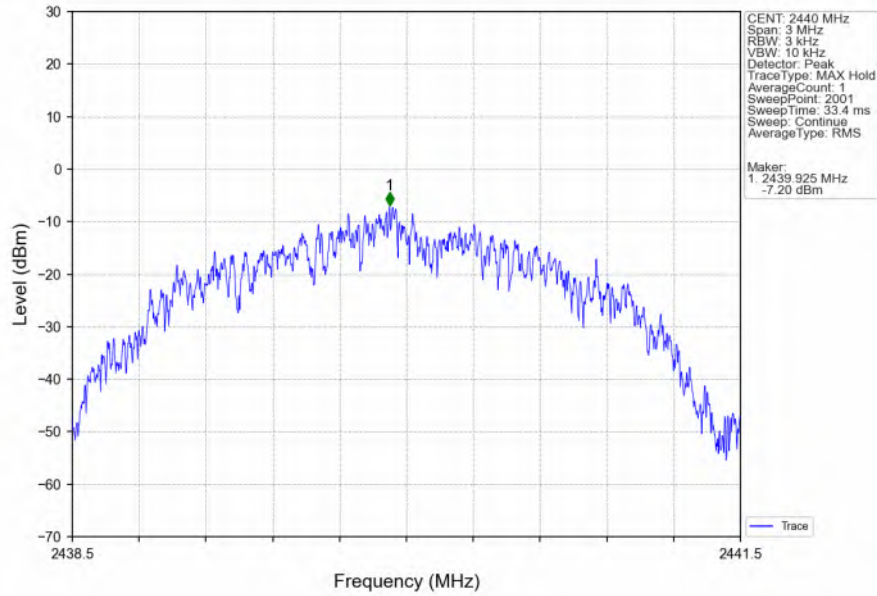
1M_HCH_2480MHz_ANT3_NTNV



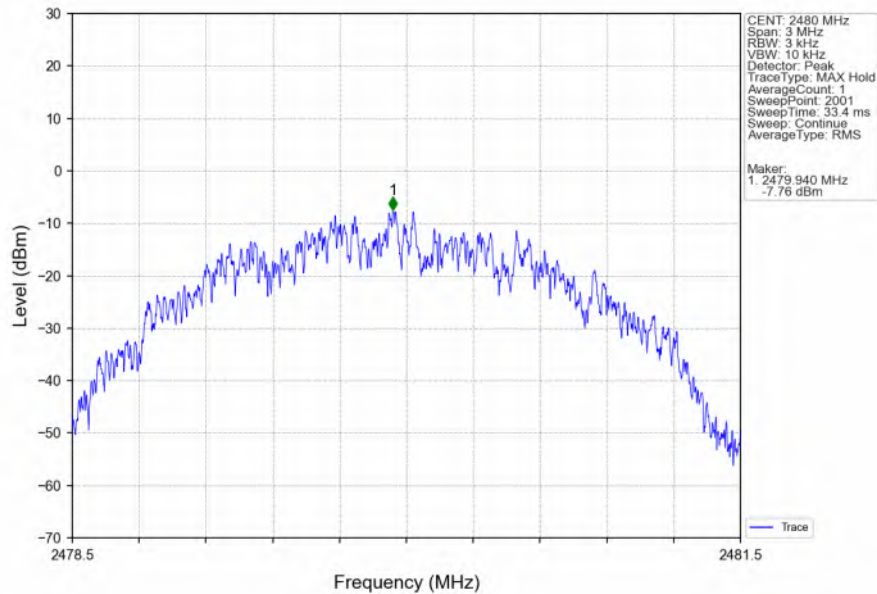
2M_LCH_2402MHz_ANT3_NTNV



2M_MCH_2440MHz_ANT3_NTNV



2M_HCH_2480MHz_ANT3_NTNV





5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

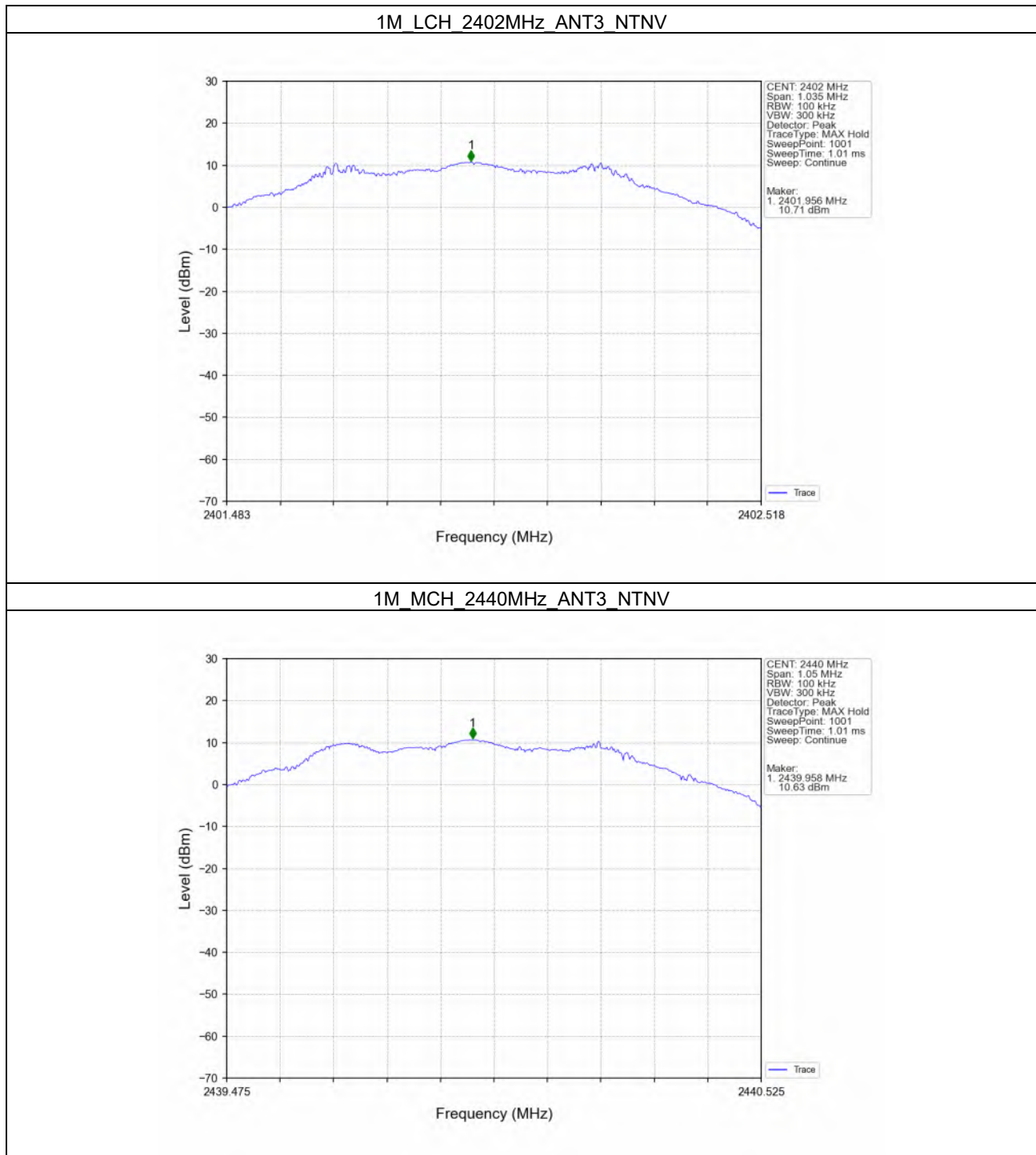
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	3	10.71
		2440	3	10.63
		2480	3	9.87
2M	SISO	2402	3	10.27
		2440	3	10.23
		2480	3	10.06

5.1.2 CSE

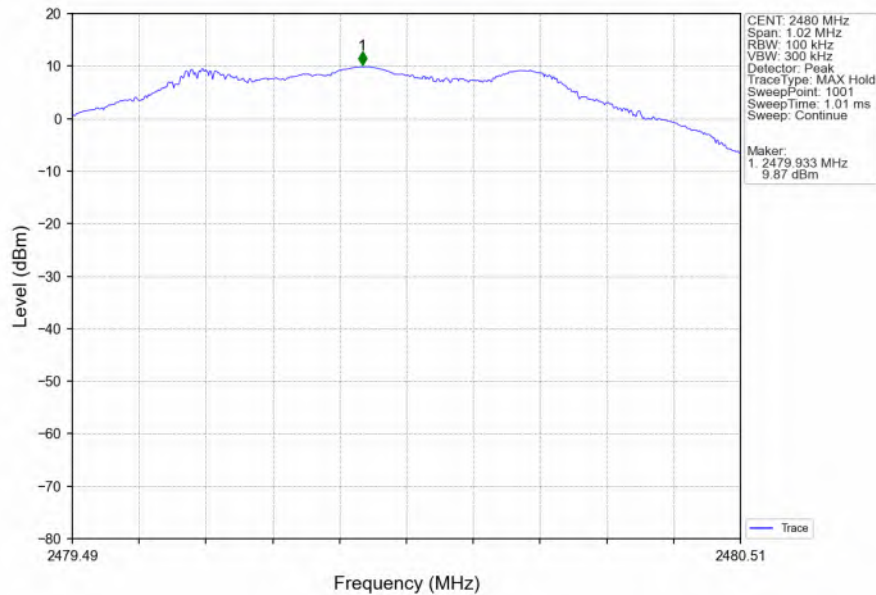
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	3	10.71	-9.29	Pass
		2440	3	10.71	-9.29	Pass
		2480	3	10.71	-9.29	Pass
2M	SISO	2402	3	10.27	-9.73	Pass
		2440	3	10.27	-9.73	Pass
		2480	3	10.27	-9.73	Pass

5.2 Test Graph

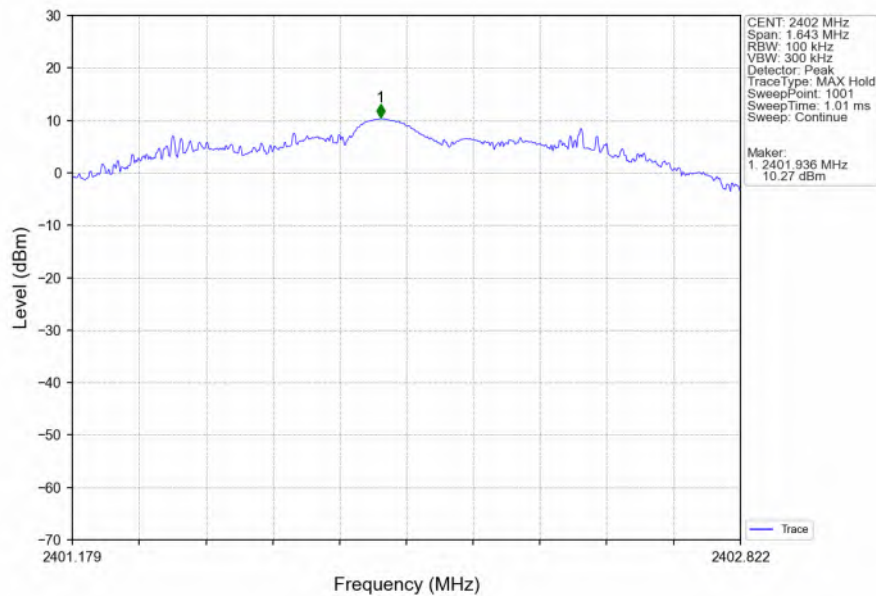
5.2.1 Ref



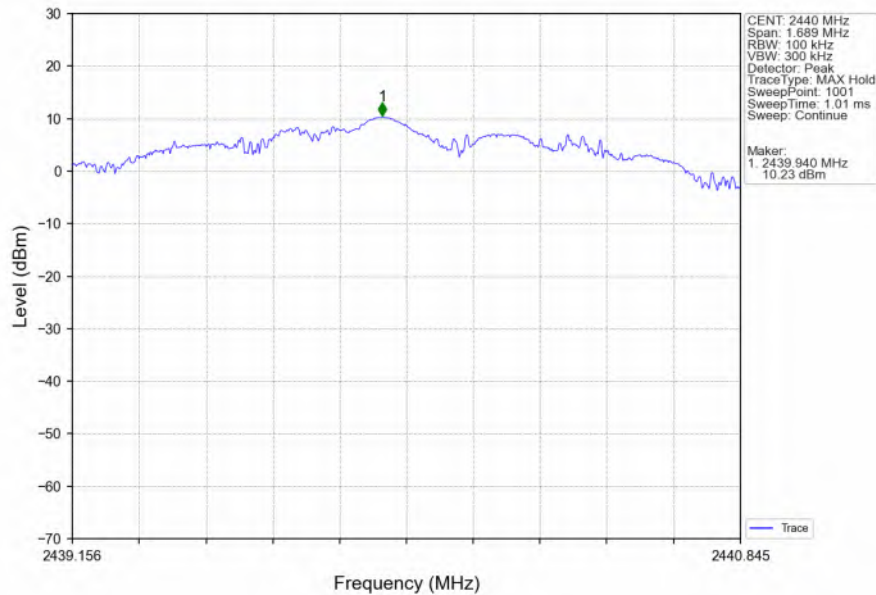
1M_HCH_2480MHz_ANT3_NTNV



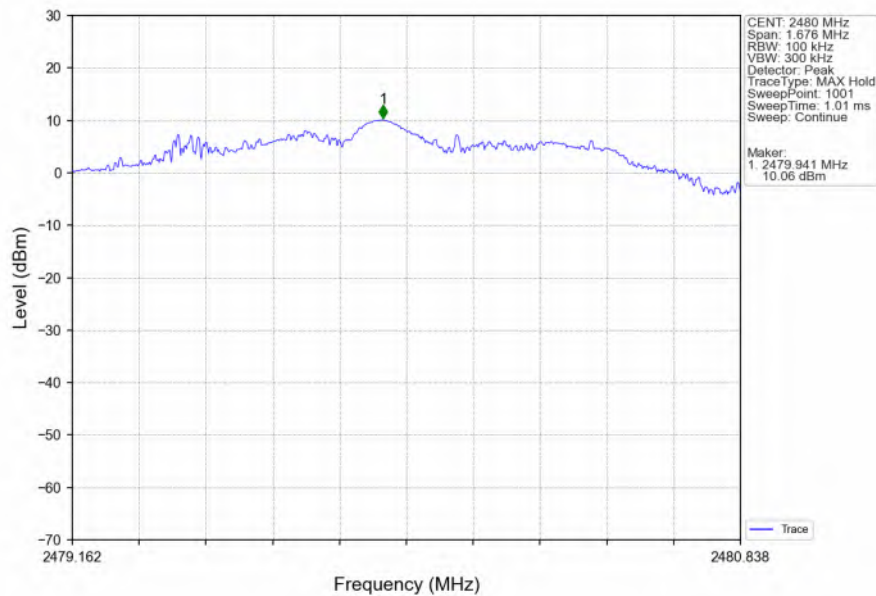
2M_LCH_2402MHz_ANT3_NTNV



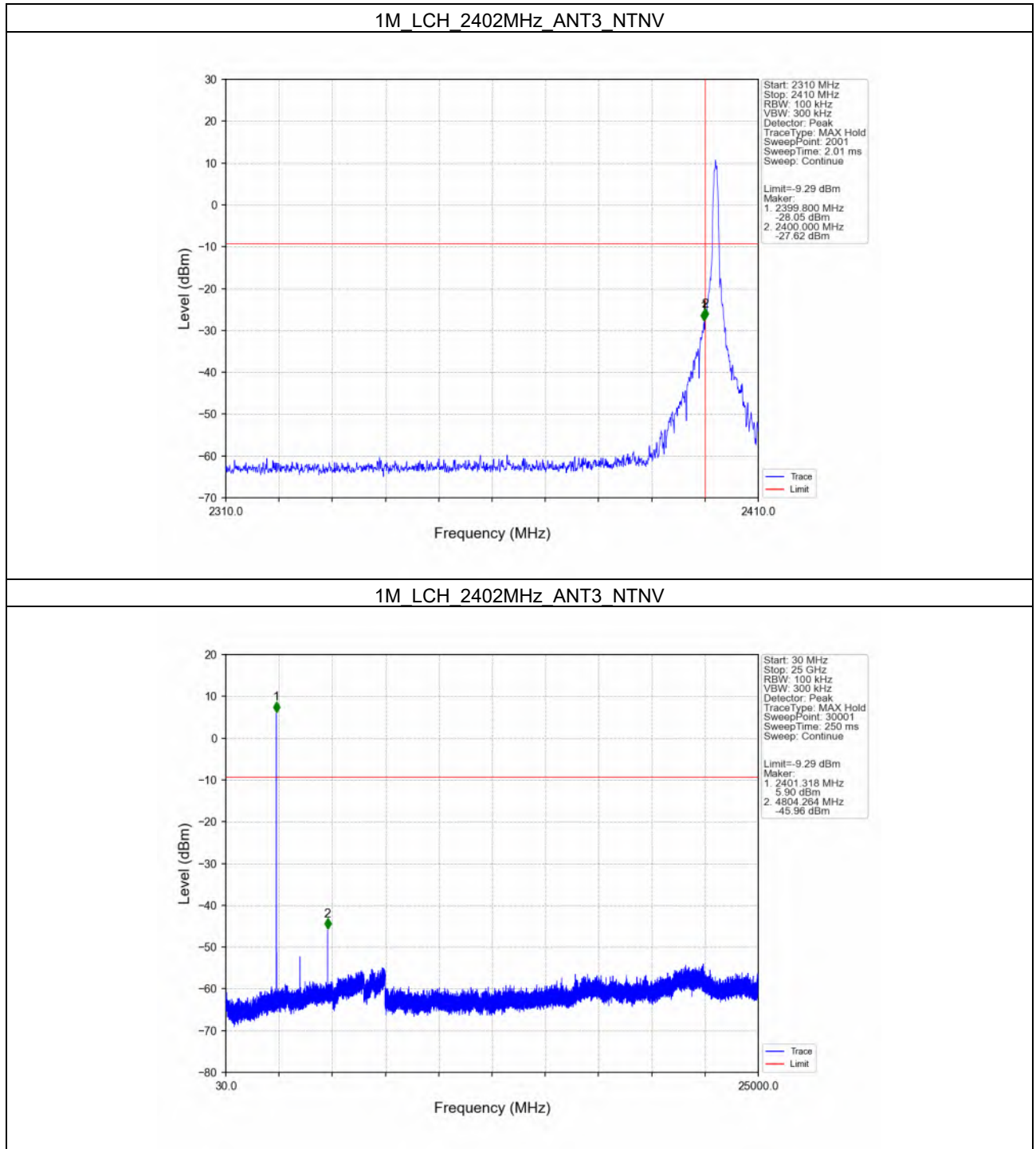
2M_MCH_2440MHz_ANT3_NTNV



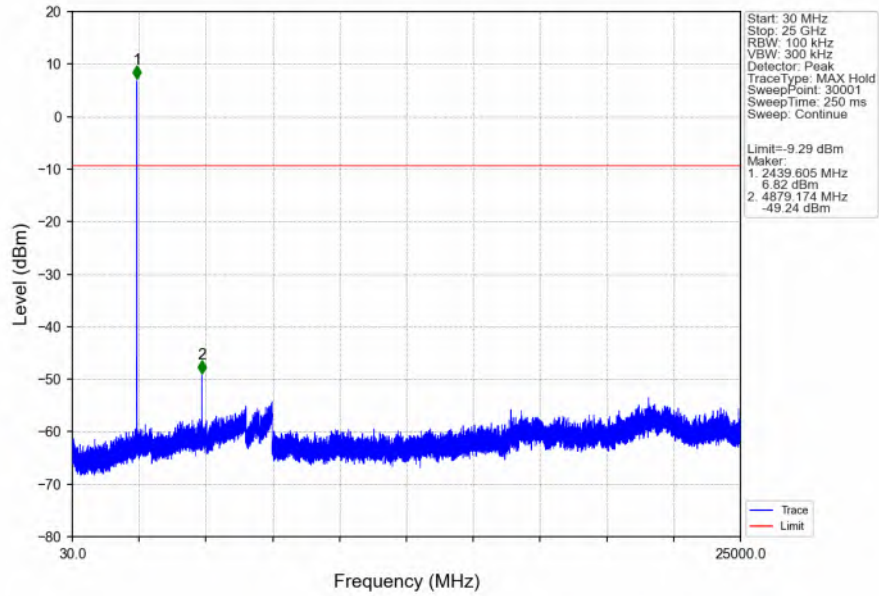
2M_HCH_2480MHz_ANT3_NTNV



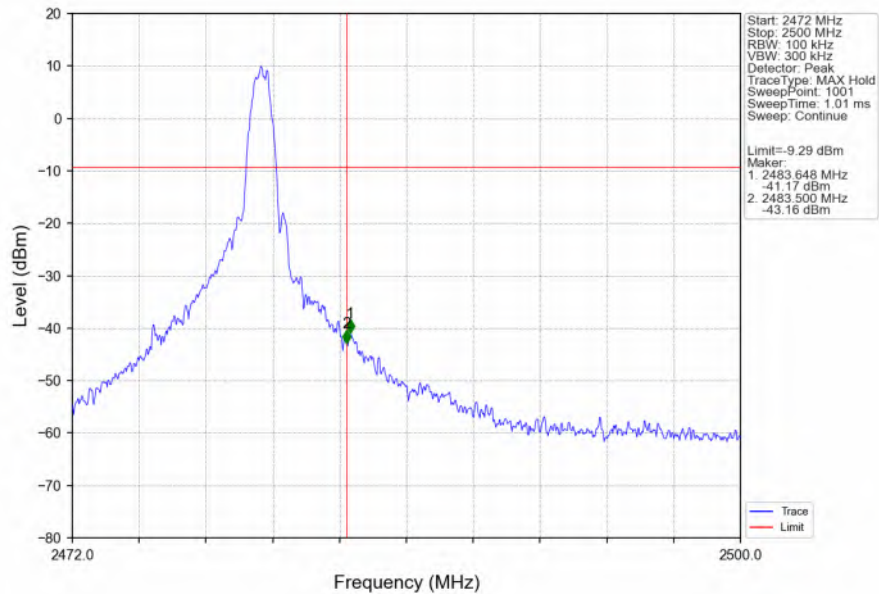
5.2.2 CSE



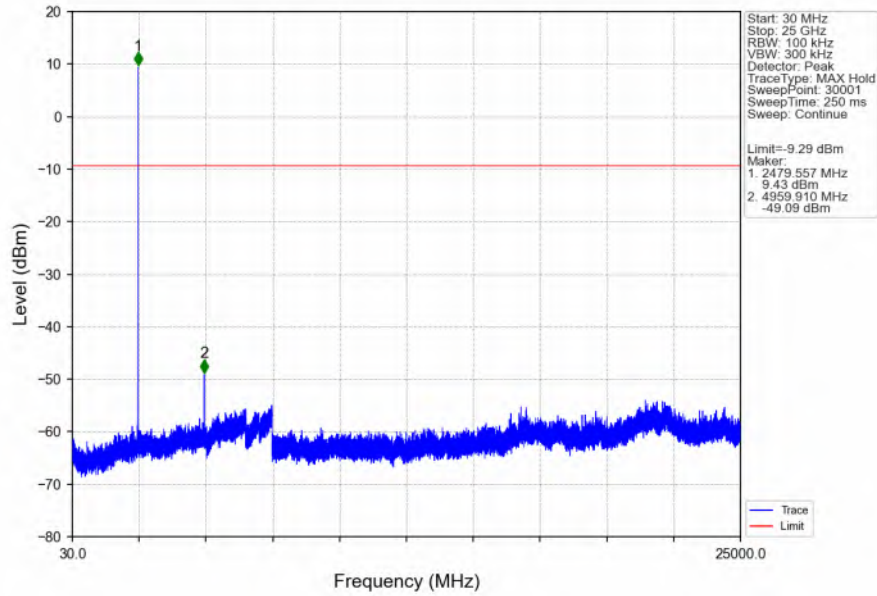
1M_MCH_2440MHz_ANT3_NTNV



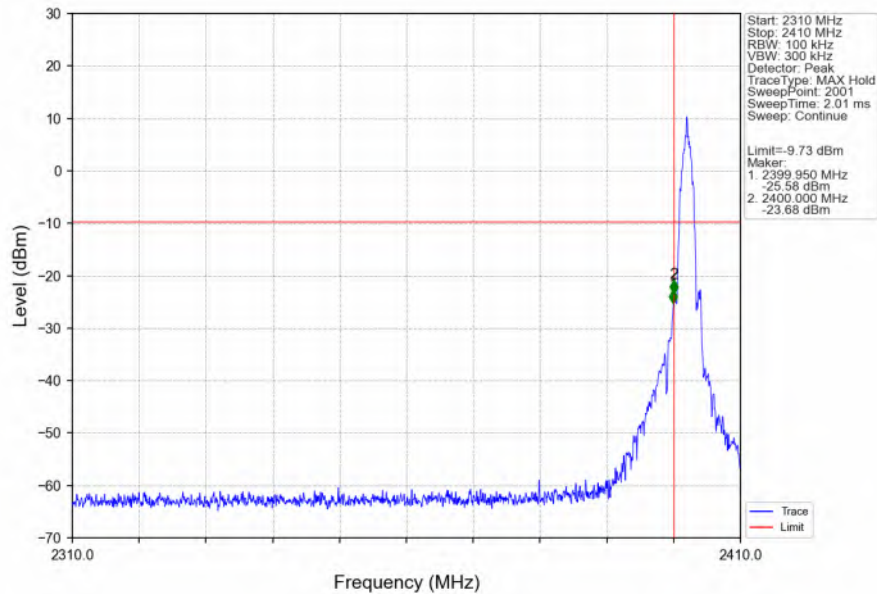
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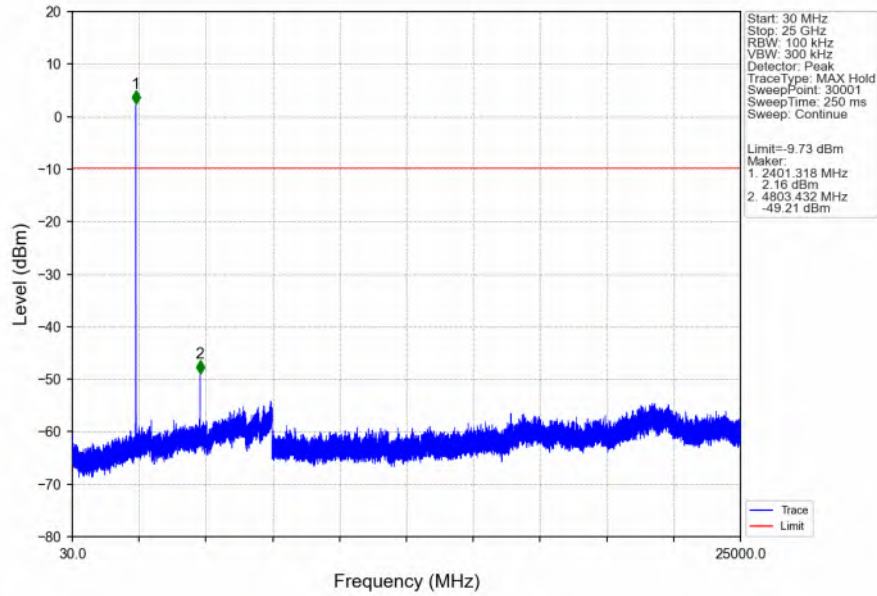
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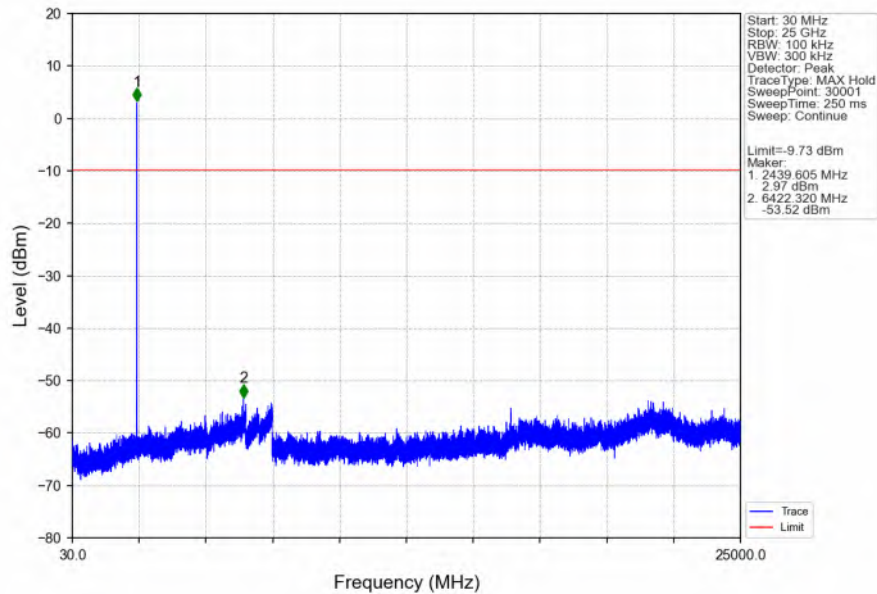
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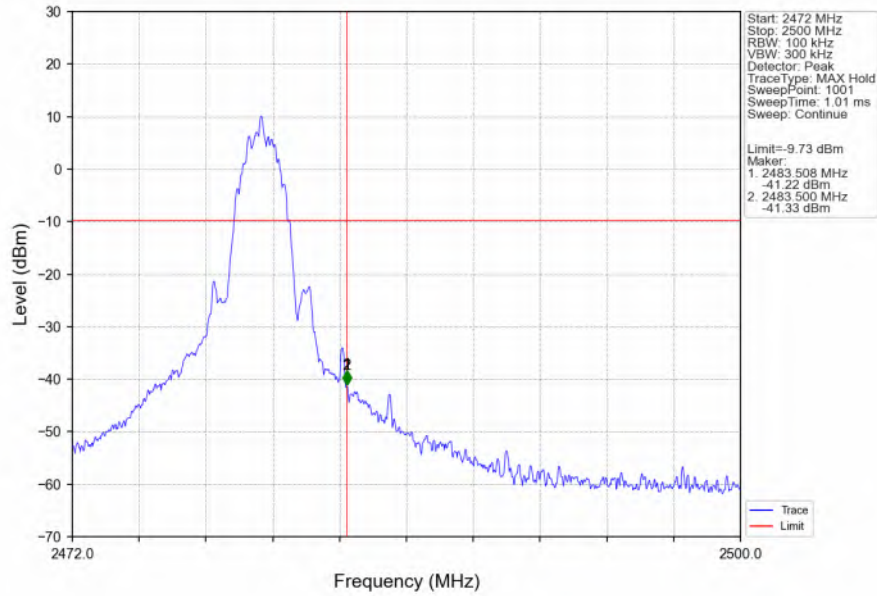
2M_LCH_2402MHz_ANT3_NTNV



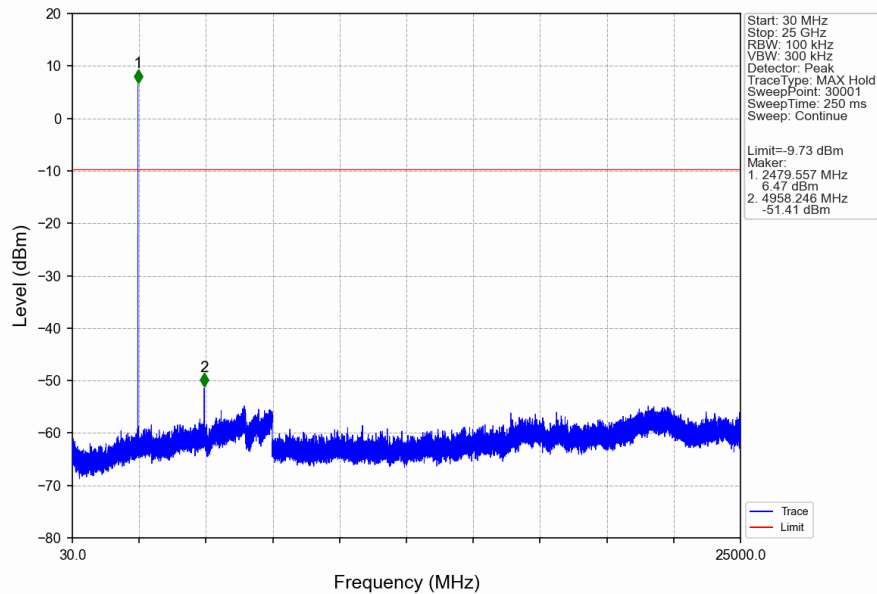
2M_MCH_2440MHz_ANT3_NTNV



2M_HCH_2480MHz_ANT3_NTNV



2M_HCH_2480MHz_ANT3_NTNV



- End of the Report -