FCC CO-LOCATION RADIO TEST REPORT

FCC ID	:	COF-WMCW51MS
Equipment	:	802.11a/b/g/n/ac/ax 1x1 + BT 5.3 Combo Module
Brand Name	:	USI
Model Name	:	WM-CW-51MS
Marketing Name	:	WM-CW-51MS
Applicant	:	Universal Global Scientific Industrial Co., Ltd. No. 141, Lane 351, Sec. 1, Taiping Road, Tsaotuen, Nantou County 542007, Taiwan
Manufacturer	:	Universal Global Scientific Industrial Co., Ltd. No. 141, Lane 351, Sec. 1, Taiping Road, Tsaotuen, Nantou County 542007, Taiwan
Standard	:	FCC Part 15 Subpart E §15.407

The product was received on Sep. 16, 2025 and testing was performed from Oct. 18, 2025 to Oct. 30, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR591512F	01	Initial issue of report	Dec. 26, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(d) 15.407(b)	Unwanted Emissions	Pass	-
3.2	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Aya Yang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/ax **Antenna Type** Bluetooth-LE: Dipole Antenna WLAN: Dipole Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	2.96
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	3.99
6875 MHz ~ 7125 MHz	Peak Gain (dBi)	3.89

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

The test location is accredited based on TAF code 3786 designated by NCC (National Communication Commission).

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

FCC designation No.: TW3786

Note: The test site complies with ANSI C63.4 2014 requirement.

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC Part 15 Subpart C §15.247
- FCC Part 15 Subpart E
- ANSI C63.10-2020

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

2.1 Carrier Frequency and Channel

2400 MHz ~ 2483.5 MHz	
Bluetooth - LE (2Mbps)	
Channel	Channel
39	2480

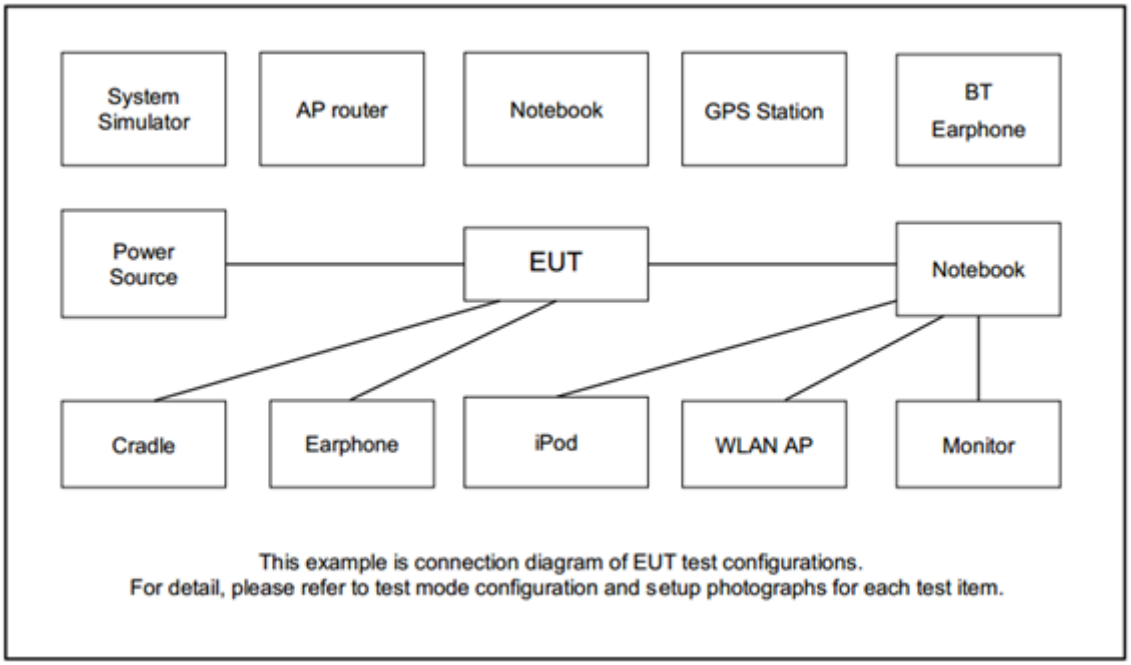
5150 MHz ~ 5250 MHz	
802.11ax HE80	
Channel	Channel
42	5210

6875 MHz ~ 7125 MHz	
802.11ax HE20	
Channel	Freq. (MHz)
233	7115

2.2 Test Mode

The detailed Radiated test modes are shown in Appendix A

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW Instek	GPE2323	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “Terminal” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.1.1 Limit of Unwanted Emissions

<For 2400 MHz ~ 2483.5 MHz>

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB.

<For 5150 MHz ~ 5250 MHz>

For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.

<For 6875 MHz ~ 7125 MHz>

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz.

According 987594 D02 U-NII 6GHz EMC Measurement v03 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

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

Note: The following formula is used to convert the EIRP to field strength.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

<For 2400 MHz ~ 2483.5 MHz>

1. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW = 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW = 3 MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

<For 5150 MHz ~ 5250 MHz>

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
   (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

<For 6875 MHz ~ 7125 MHz>

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (3) Use the following spectrum analyzer settings:

   For average measurement:

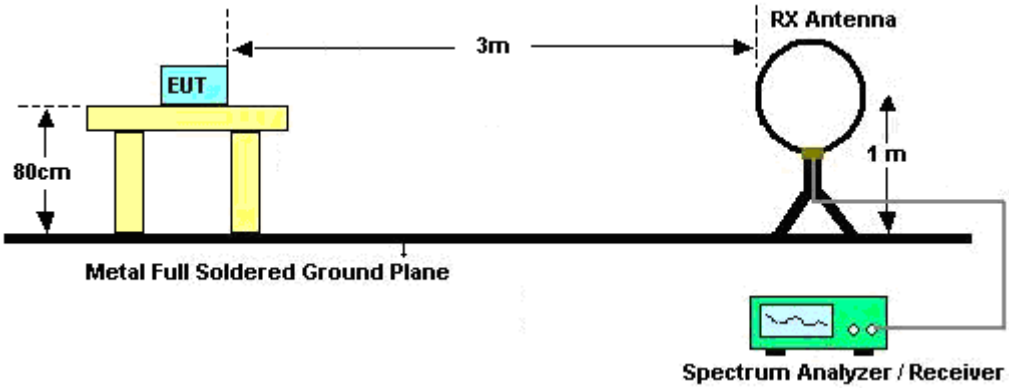
   The procedure for method trace averaging is as follows:

   a) RBW = 1 MHz.
   b) VBW ≥ [3 × RBW].
   c) Detector = RMS (power averaging), if [span / (# of points in sweep)] ≤ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
   d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging.
   e) Sweep time = auto.
   f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / *D*, where *D* is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

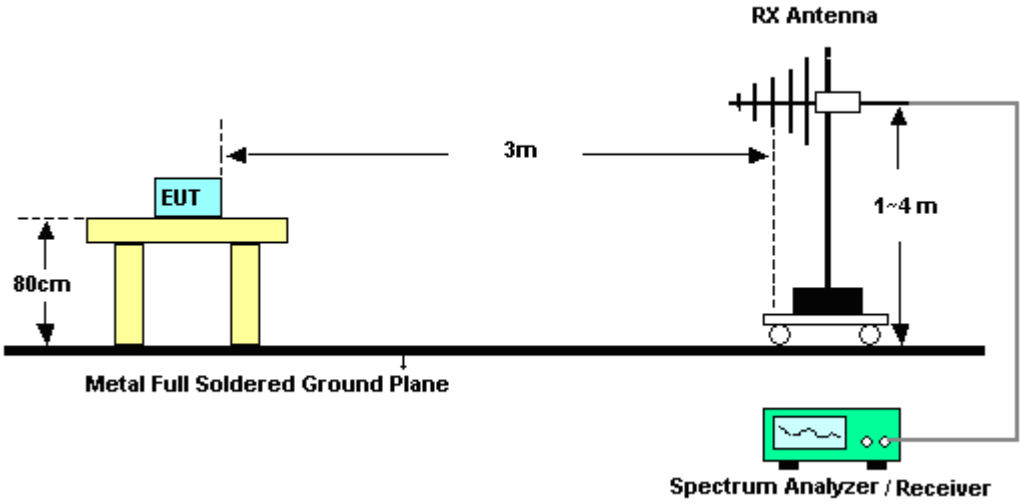
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.1.4 Test Setup

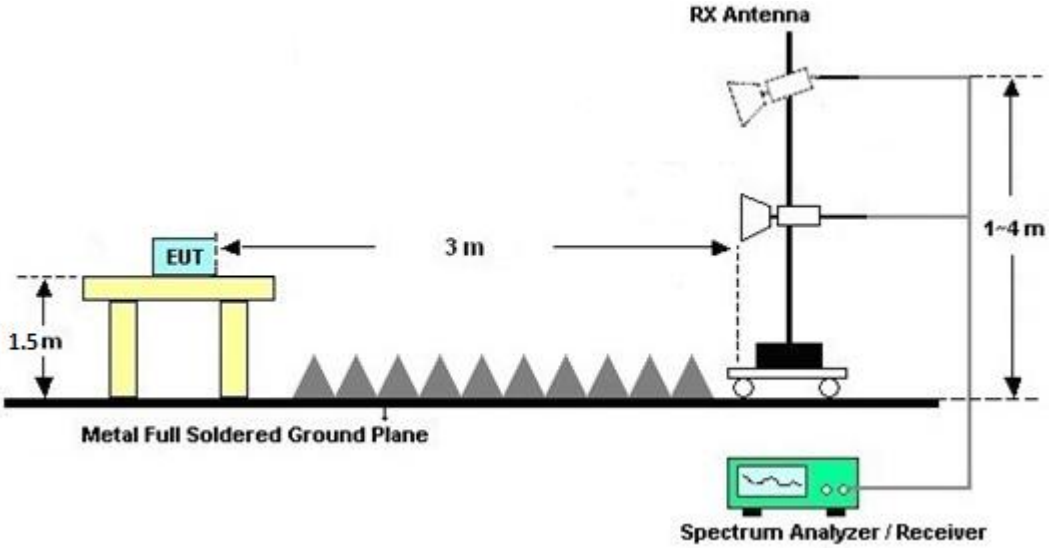
For radiated emissions below 30MHz



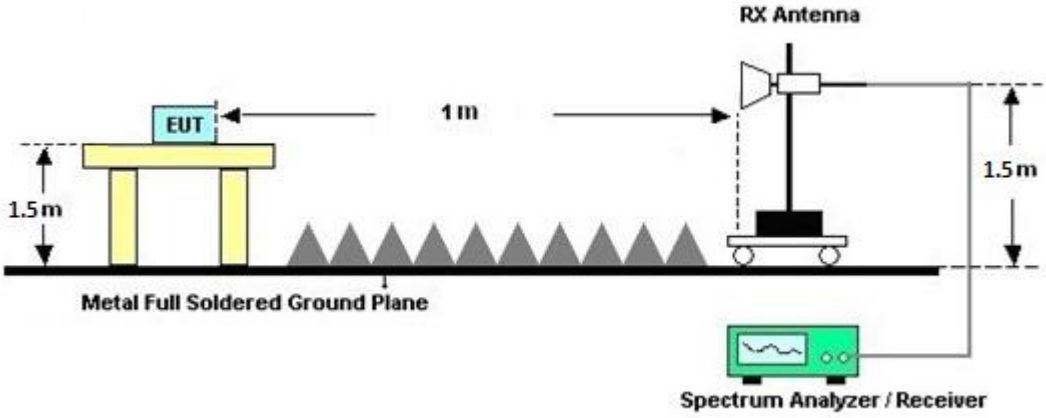
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.1.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

3.1.7 Duty Cycle

Please refer to Appendix B.

3.1.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix A.

3.2 Antenna Requirements

3.2.1 Standard Applicable

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.2.2 Antenna Anti-Replacement Construction

Professional installation.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec 18, 2024	Oct. 18, 2025~ Oct. 30, 2025	Dec 17, 2025	Radiation (03CH23-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	62028 & 003	30MHz~1GHz	Nov. 27, 2024	Oct. 18, 2025~ Oct. 30, 2025	Nov. 26, 2025	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	421582	9kHz~1GHz	Jul. 13, 2025	Oct. 18, 2025~ Oct. 30, 2025	Jul. 12 2026	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	1GHz~18GHz	Sep. 26, 2025	Oct. 18, 2025~ Oct. 30, 2025	Sep. 25, 2026	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18EN	1GHz~18GHz	Jul.02 ,2025	Oct. 18, 2025~ Oct. 30, 2025	Jul.01,2026	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1225	18GHz-40GHz	Jul.02 ,2025	Oct. 18, 2025~ Oct. 30, 2025	Jul.01,2026	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz-40GHz	Aug. 26, 2025	Oct. 18, 2025~ Oct. 30, 2025	Aug. 25, 2026	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170337	10Hz~44GHz	Aug. 26, 2025	Oct. 18, 2025~ Oct. 30, 2025	Aug. 25, 2026	Radiation (03CH23-HY)
Hygrometer	TECPEL	DTM-303A	TP211469	N/A	Dec. 24, 2024	Oct. 18, 2025~ Oct. 30, 2025	Dec. 23, 2025	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Oct. 18, 2025~ Oct. 30, 2025	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Oct. 18, 2025~ Oct. 30, 2025	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Oct. 18, 2025~ Oct. 30, 2025	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019122	RK-002348	N/A	N/A	Oct. 18, 2025~ Oct. 30, 2025	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	30MHz~40GHz	Nov. 26, 2024	Oct. 18, 2025~ Oct. 30, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/231119/231122	30MHz~40GHz	Nov. 26, 2024	Oct. 18, 2025~ Oct. 30, 2025	Nov. 25, 2025	Radiation (03CH23-HY)

5 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.6 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.4 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.7 dB

Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Leo Li , Karl Hou , Lucifer Jiang	**Temperature :**	19~23°C
		Relative Humidity :	60~64.5%

Note symbol

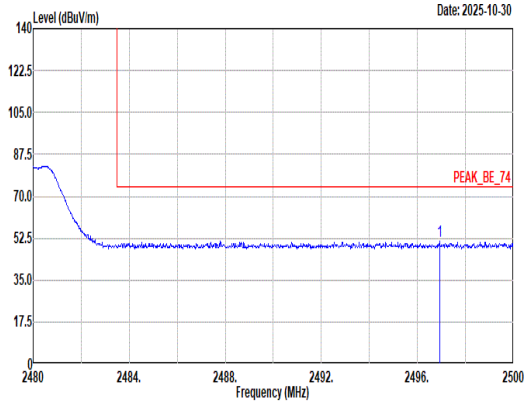
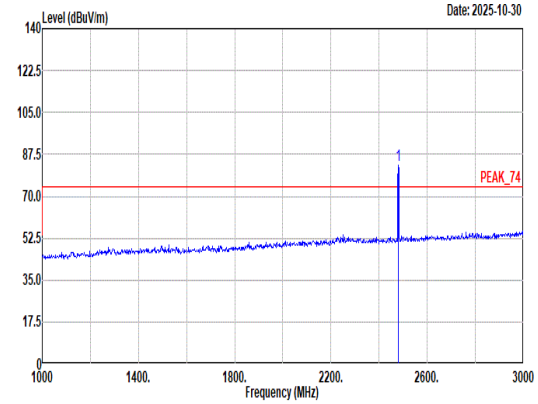
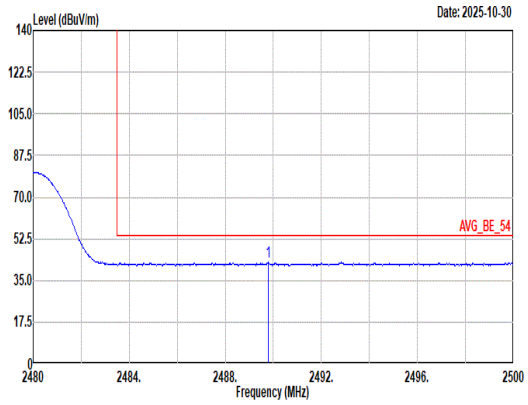
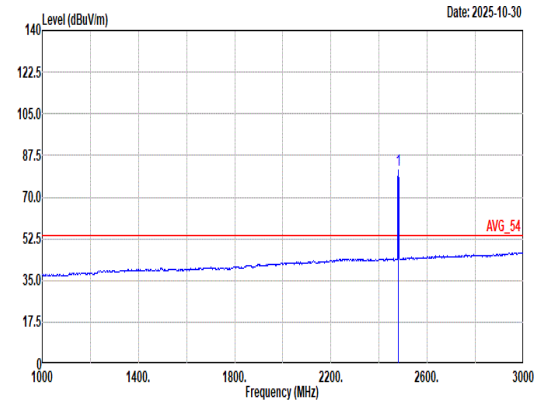
-L	**Low channel location**
-R	**High channel location**

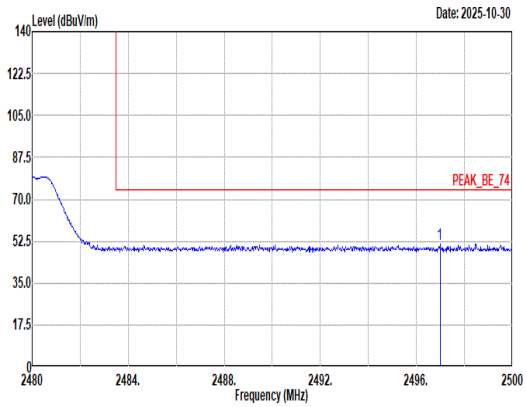
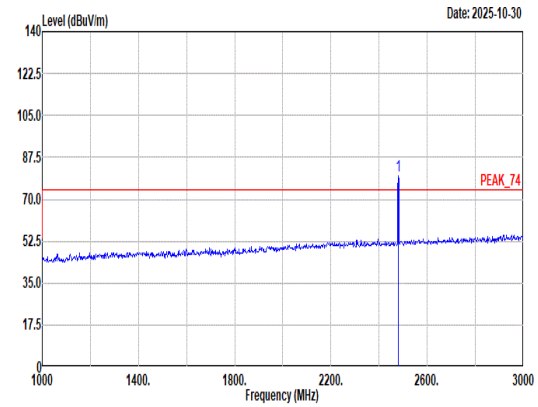
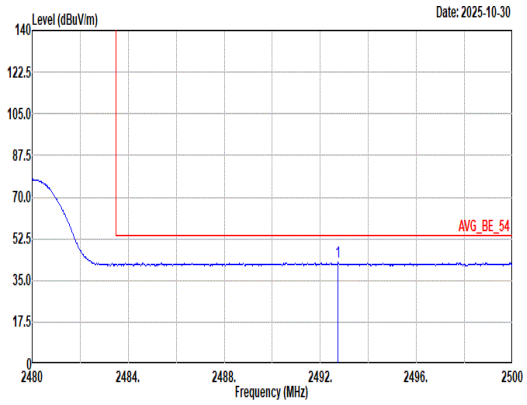
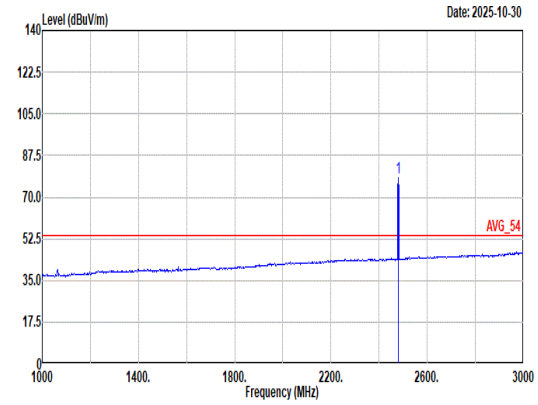
A1-1.Radiated Spurious Emission Test Modes

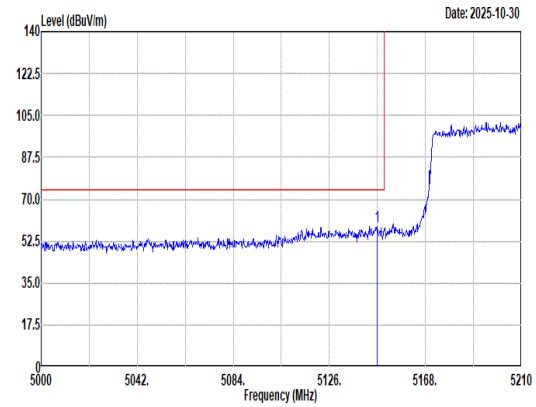
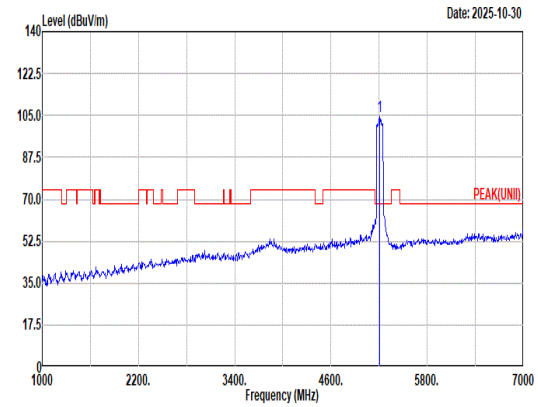
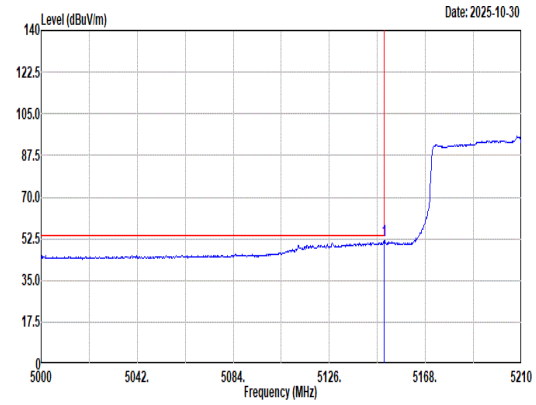
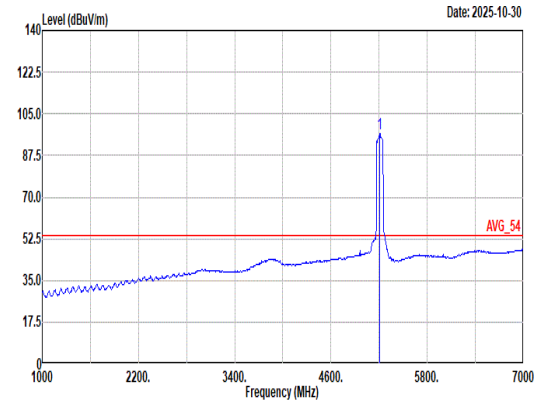
Mode	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 112	2400-2483.5	1	Bluetooth-LE	39	2480	2Mbps	-	BE
	5.15-5.25	1	802.11ax HE80	42	5210	MCS0	Full RU	BE
	2400-2483.5	1	Bluetooth-LE	39	2480	2Mbps	-	Harmonic
	5.15-5.25	1	802.11ax HE80	42	5210	MCS0	Full RU	
	2400-2483.5	1	Bluetooth-LE	39	2480	2Mbps	-	LF
	5.15-5.25	1	802.11ax HE80	42	5210	MCS0	Full RU	
	2400-2483.5	1	Bluetooth-LE	39	2480	2Mbps	-	SHF
	5.15-5.25	1	802.11ax HE80	42	5210	MCS0	Full RU	

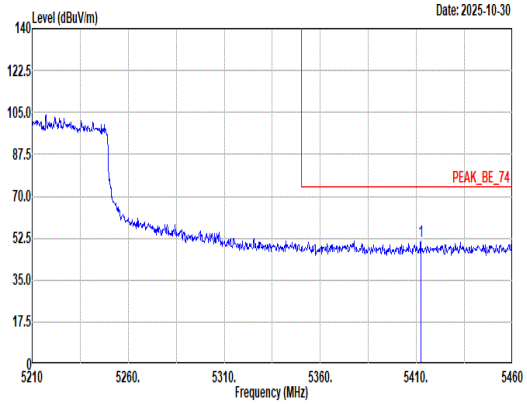
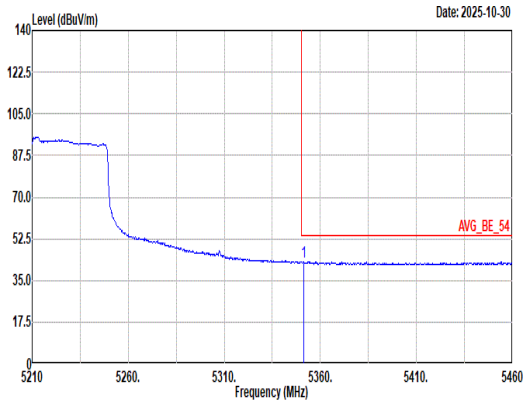
A1-2.Summary of each worse mode

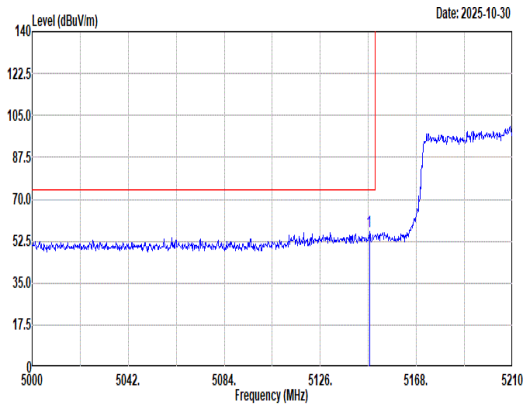
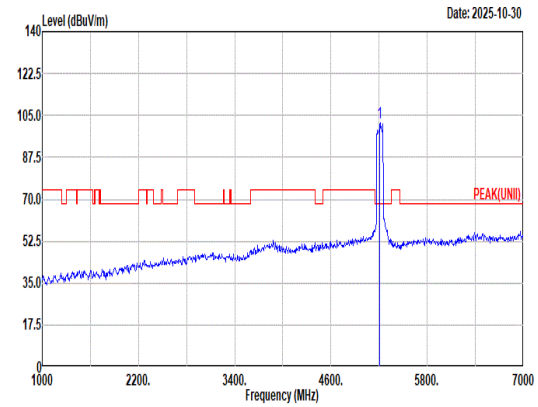
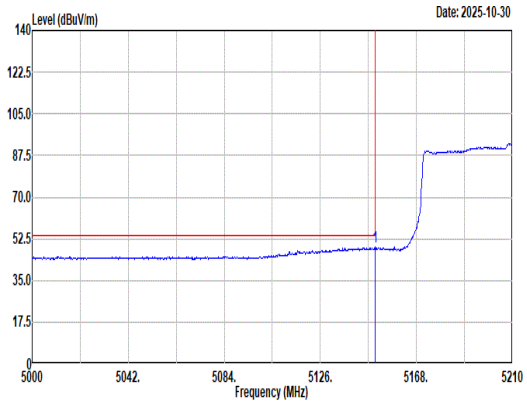
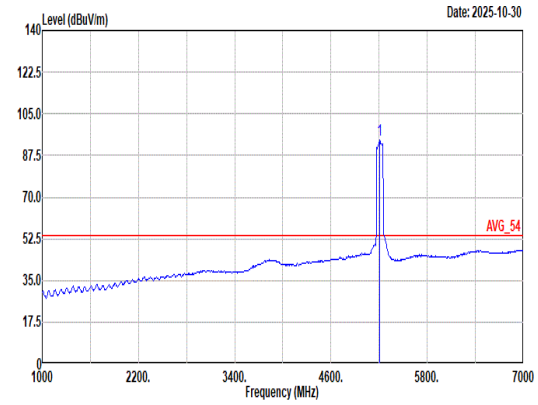
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
112	Bluetooth-LE	39	2489.78	42.64	54.00	-11.36	H	Avg.	Pass	-	Band Edge
	802.11ax HE80	42	5149.94	51.60	54.00	-2.40	H	Avg.	Pass	Full RU	Band Edge
	Bluetooth-LE	39	15630.00	44.97	54.00	-9.03	H	Avg.	Pass	-	Harmonic
	802.11ax HE80	42								Full RU	
	Bluetooth-LE	39	32.91	31.42	40.00	-8.58	V	Peak	Pass	-	LF
	802.11ax HE80	42								Full RU	
	Bluetooth-LE	39	39480.74	47.98	74.00	-26.02	V	Peak	Pass	-	SHF
	802.11ax HE80	42								Full RU	

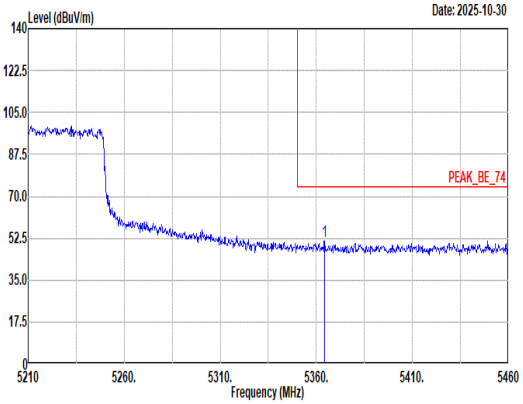
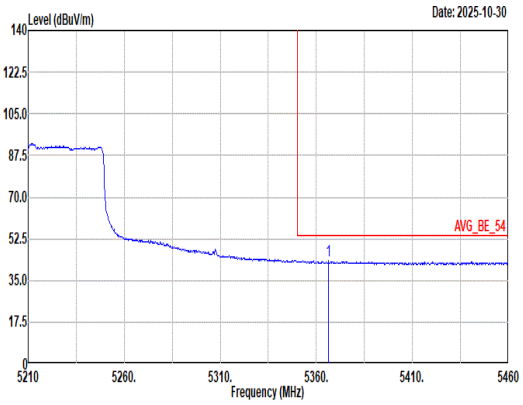
Mode	112	
	Band Edge	
	2400-2483.5_Bluetooth-LE_CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.92 51.26 74.00 -22.74 38.60 26.90 7.36 31.89 10.29 100 246 Peak	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 82.82 ------ ------ 70.28 26.80 7.33 31.88 10.29 100 246 Peak
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2489.78 42.64 54.00 -11.36 29.99 26.90 7.35 31.89 10.29 100 246 Average	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 81.23 ------ ------ 68.69 26.80 7.33 31.88 10.29 100 246 Average

Mode	112	
	Band Edge	
	2400-2483.5_Bluetooth-LE_CH39_2480MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.98 51.43 74.00 -22.57 38.77 26.90 7.36 31.89 10.29 400 123 Peak	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 79.75 ------ ------ 67.21 26.80 7.33 31.88 10.29 400 123 Peak
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2492.74 42.57 54.00 -11.43 29.92 26.90 7.35 31.89 10.29 400 123 Average	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 78.20 ------ ------ 65.66 26.80 7.33 31.88 10.29 400 123 Average

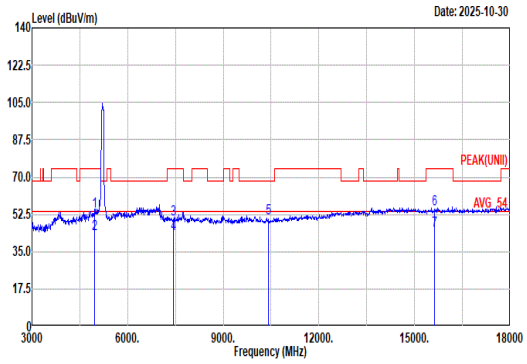
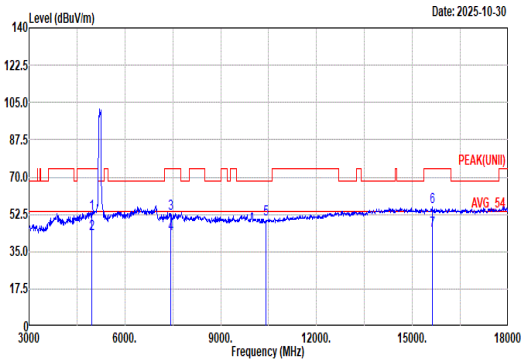
Mode	112	
	Band Edge - L	
	5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5147.00 58.78 74.00 -15.22 44.54 32.90 10.56 32.64 3.42 100 244 Peak	 Site : 03CH23-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 104.80 ------ ------ 90.79 32.79 10.61 32.81 3.42 100 244 Peak
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.94 51.60 54.00 -2.40 37.37 32.90 10.56 32.65 3.42 100 244 Average	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 96.70 ------ ------ 82.72 32.78 10.61 32.83 3.42 100 244 Average

Mode	112	
	Band Edge - R	
	5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5412.25 51.05 74.00 -22.95 37.50 32.62 10.83 33.40 3.50 100 244 Peak	Blank
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3.600kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5351.25 42.94 54.00 -11.06 29.42 32.50 10.76 33.22 3.48 100 244 Average	Blank

Mode	112	
	Band Edge - L	
	5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5147.42 56.45 74.00 -17.55 42.21 32.90 10.56 32.64 3.42 286 77 Peak	 Site : 03CH23-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 101.77 ------ ------ 87.80 32.76 10.62 32.84 3.43 286 77 Peak
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5149.94 49.05 54.00 -4.95 34.82 32.90 10.56 32.65 3.42 286 77 Average	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5210.00 93.79 ------ ------ 79.78 32.79 10.61 32.81 3.42 286 77 Average

Mode	112	
	Band Edge - R	
	5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5364.25 51.35 74.00 -22.65 37.82 32.53 10.77 33.26 3.49 286 77 Peak	Blank
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3.600kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5366.50 43.14 54.00 -10.86 29.62 32.53 10.77 33.27 3.49 286 77 Average	Blank

Mode	112
	Harmonic
	2400-2483.5_Bluetooth-LE_CH39_2480MHz
	5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz
ANT	1

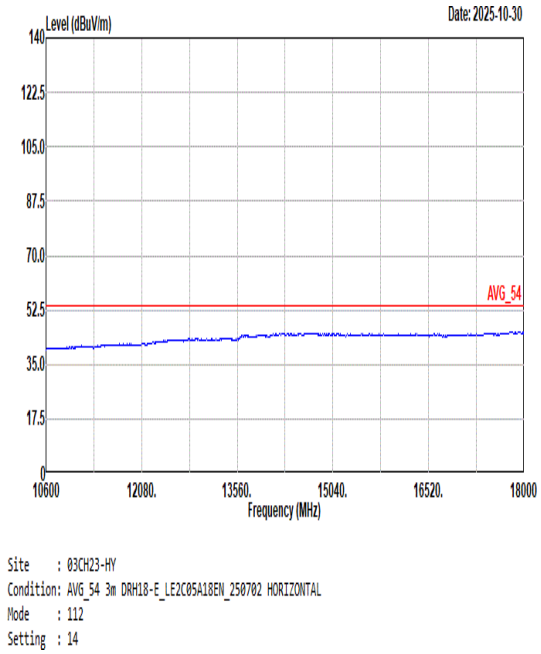
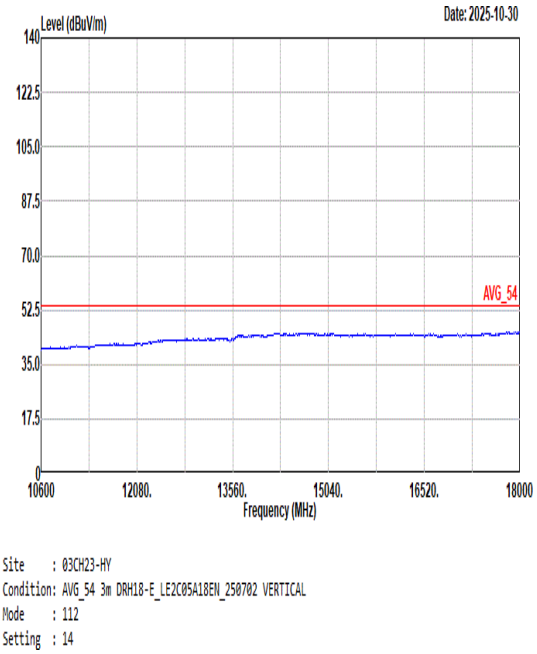
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH23-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL Mode : 112 Setting : 14	 Site : 03CH23-HY Condition: PEAK(UNII) 3m DRH18-E_LE2C05A18EN_250702 VERTICAL Mode : 112 Setting : 14

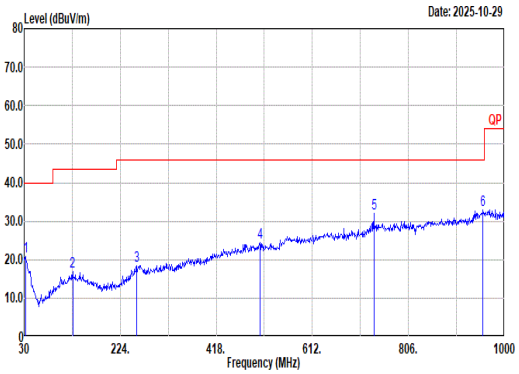
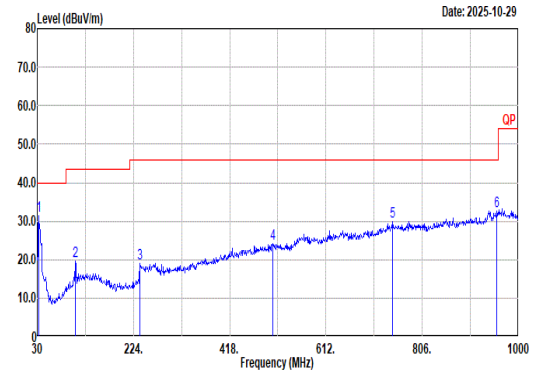
Horizontal:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4960.00	54.08	74.00	-19.92	39.61	32.92	10.38	32.24	3.41	--	--	Peak
2	4960.00	43.18	74.00	-30.82	28.71	32.92	10.38	32.24	3.41	--	--	Average
3	7440.00	50.21	74.00	-23.79	34.19	37.14	12.59	35.78	2.07	--	--	Peak
4	7440.00	43.20	54.00	-10.80	27.18	37.14	12.59	35.78	2.07	--	--	Average
5	10420.00	50.47	68.20	-17.73	34.99	37.46	14.93	39.05	2.14	--	--	Peak
6	15630.00	54.82	74.00	-19.18	37.82	40.94	18.39	44.80	2.47	--	--	Peak
7	15630.00	44.97	54.00	-9.03	27.97	40.94	18.39	44.80	2.47	--	--	Average

Vertical:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4960.00	52.63	74.00	-21.37	38.16	32.92	10.38	32.24	3.41	--	--	Peak
2	4960.00	43.26	74.00	-30.74	28.79	32.92	10.38	32.24	3.41	--	--	Average
3	7440.00	53.02	74.00	-20.98	37.00	37.14	12.59	35.78	2.07	--	--	Peak
4	7440.00	43.47	54.00	-10.53	27.45	37.14	12.59	35.78	2.07	--	--	Average
5	10420.00	50.31	68.20	-17.89	34.83	37.46	14.93	39.05	2.14	--	--	Peak
6	15630.00	55.95	74.00	-18.05	38.95	40.94	18.39	44.80	2.47	--	--	Peak
7	15630.00	44.88	54.00	-9.12	27.88	40.94	18.39	44.80	2.47	--	--	Average

Mode	112	
	Harmonic	
	2400-2483.5_Bluetooth-LE_CH39_2480MHz	
	5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

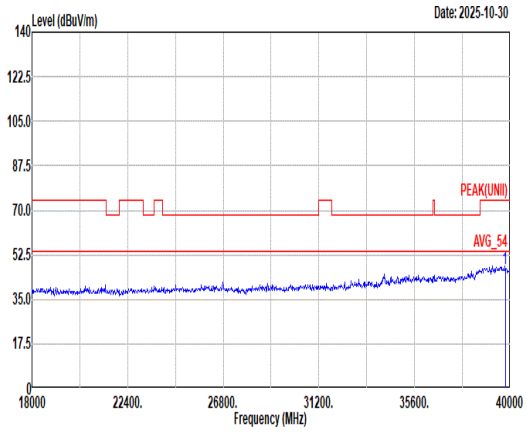
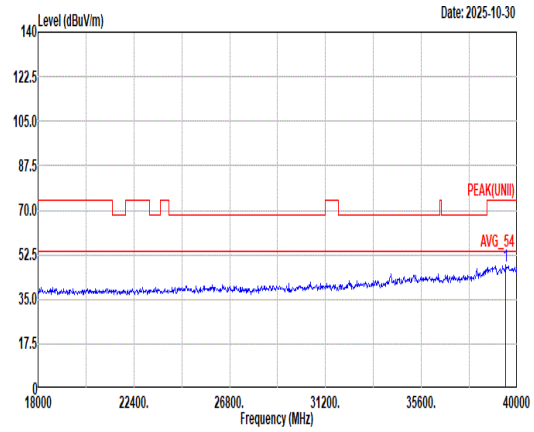
Mode	112	
	LF	
	2400-2483.5_Bluetooth-LE_CH39_2480MHz	
	5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
ANT	1	
Pol.	Horizontal	Vertical
QP/ Peak		

Site : 03CH23-HY
Condition: QP 3m CBL6111D_62028 & 003_241127 HORIZONTAL

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	32.91	20.84	40.00	-19.16	29.67	23.04	0.67	32.56	0.02	--	--	Peak
2	127.97	16.77	43.50	-26.73	30.26	17.51	1.44	32.48	0.04	--	--	Peak
3	257.95	18.39	46.00	-27.61	29.09	19.68	2.07	32.52	0.07	--	--	Peak
4	506.27	24.31	46.00	-21.69	29.71	24.13	3.03	32.68	0.12	--	--	Peak
5	736.16	31.90	46.00	-14.10	32.78	27.90	3.67	32.58	0.13	--	--	Peak
6	956.35	32.88	46.00	-13.12	28.42	31.06	4.27	31.08	0.21	--	--	Peak

Site : 03CH23-HY
Condition: QP 3m CBL6111D_62028 & 003_241127 VERTICAL

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	32.91	31.42	40.00	-8.58	40.25	23.04	0.67	32.56	0.02	--	--	Peak
2	106.63	19.73	43.50	-23.77	34.29	16.58	1.31	32.50	0.05	--	--	Peak
3	236.61	18.93	46.00	-27.07	29.37	20.02	1.98	32.51	0.07	--	--	Peak
4	504.33	24.14	46.00	-21.86	29.59	24.09	3.02	32.68	0.12	--	--	Peak
5	746.83	29.78	46.00	-16.22	30.36	28.13	3.70	32.55	0.14	--	--	Peak
6	956.35	32.57	46.00	-13.43	28.11	31.06	4.27	31.08	0.21	--	--	Peak

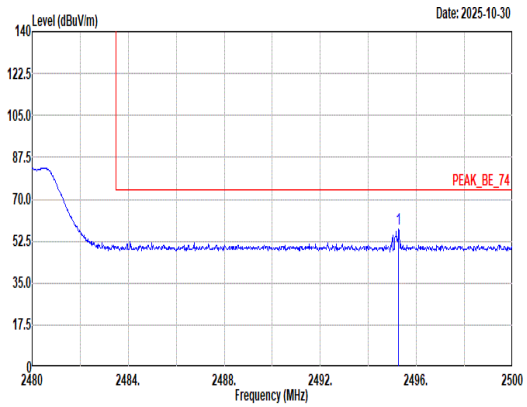
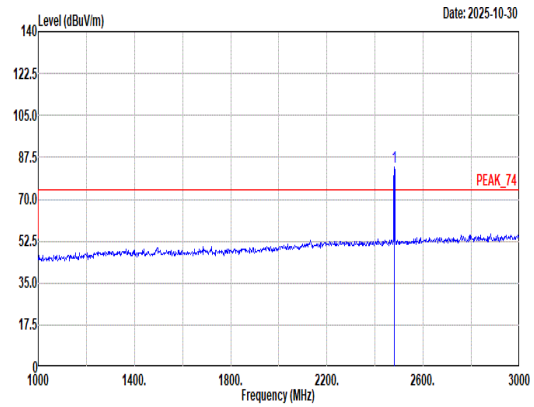
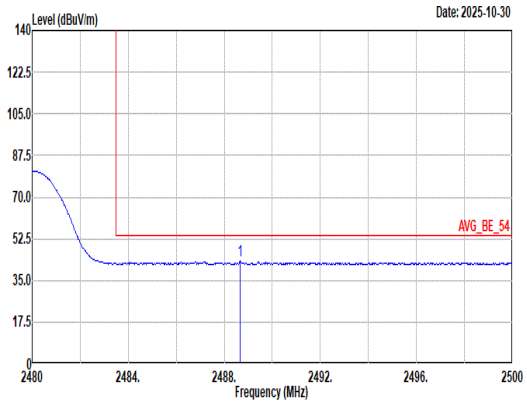
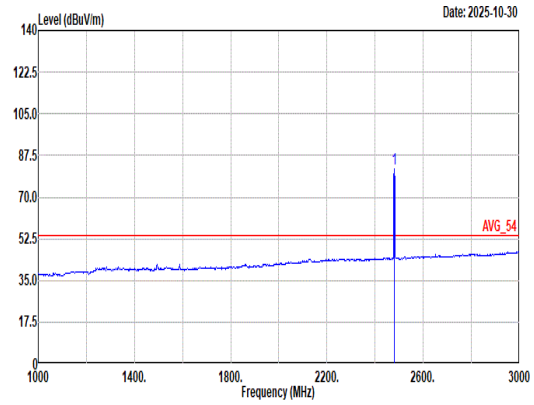
Mode	112	
	SHF	
	2400-2483.5_Bluetooth-LE_CH39_2480MHz	
	5.15-5.25_802.11ax HE80_CH42_Full RU_5210MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH23-HY Condition: PEAK(UNII) 1m BBHA9170_1225_250702 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39769.03 47.27 74.00 -26.73 40.83 45.41 31.06 60.49 -9.54 -- -- PEAK	 Site : 03CH23-HY Condition: PEAK(UNII) 1m BBHA9170_1225_250702 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39480.74 47.98 74.00 -26.02 41.00 46.08 31.04 60.60 -9.54 -- -- PEAK

A2-1.Radiated Spurious Emission Test Modes

Mode	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 113	2400-2483.5	1	Bluetooth-LE	39	2480	2Mbps	-	BE
	6.875-7.125	1	802.11ax HE20	233	7115	MCS0	Full RU	BE
	2400-2483.5	1	Bluetooth-LE	39	2480	2Mbps	-	Harmonic
	6.875-7.125	1	802.11ax HE20	233	7115	MCS0	Full RU	
	2400-2483.5	1	Bluetooth-LE	39	2480	2Mbps	-	LF
	6.875-7.125	1	802.11ax HE20	233	7115	MCS0	Full RU	
	2400-2483.5	1	Bluetooth-LE	39	2480	2Mbps	-	SHF
	6.875-7.125	1	802.11ax HE20	233	7115	MCS0	Full RU	

A2-2.Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
113	Bluetooth-LE	39	2488.66	43.25	54.00	-10.75	H	Avg.	Pass	-	Band Edge
	802.11ax HE20	233	7125.01	60.21	68.20	-7.99	H	Avg.	Pass	Full RU	Band Edge
	Bluetooth-LE	39	7440.00	45.52	54.00	-8.48	V	Avg.	Pass	-	Harmonic
	802.11ax HE20	233								Full RU	
	Bluetooth-LE	39	35.82	30.28	40.00	-9.72	V	Peak	Pass	-	LF
	802.11ax HE20	233								Full RU	
	Bluetooth-LE	39	21345.00	38.84	74.00	-35.16	V	Peak	Pass	-	SHF
	802.11ax HE20	233								Full RU	

Mode	113	
	Band Edge	
	U-NII-1_2400-2483.5_Bluetooth-LE_CH39_2480MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL Setting :	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL Setting :
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL Setting :	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL Setting :

Peak – Horizontal

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2495.26	57.42	74.00	-16.58	44.77	26.90	7.35	31.89	10.29	101	228	Peak

Peak – Fundamental

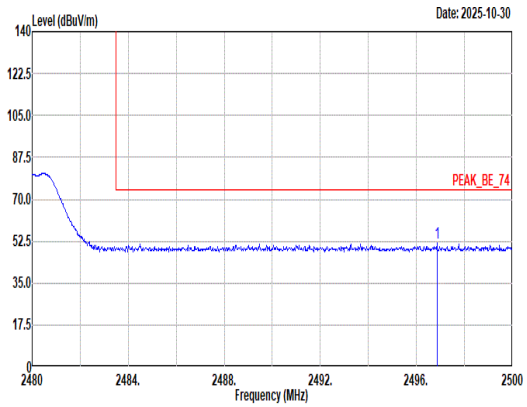
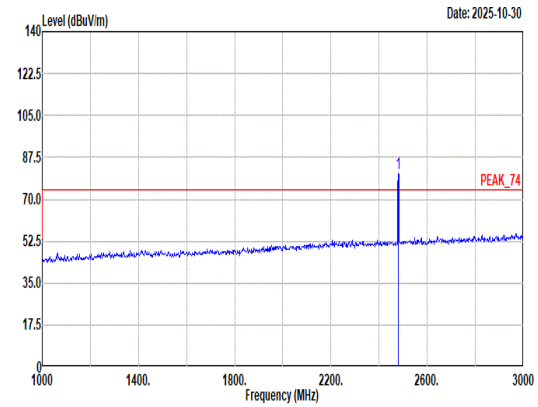
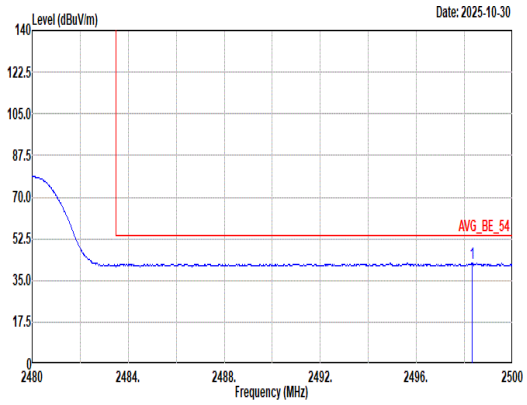
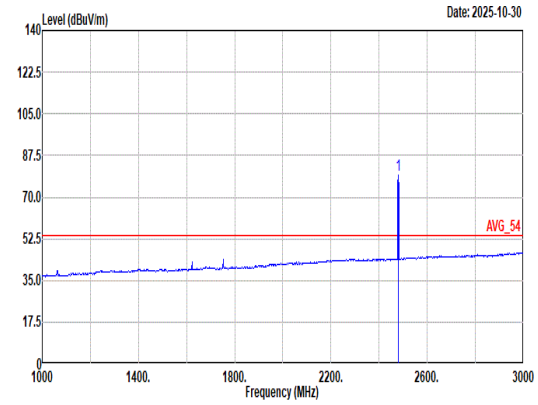
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2480.00	83.44	------	------	70.90	26.80	7.33	31.88	10.29	101	228	Peak

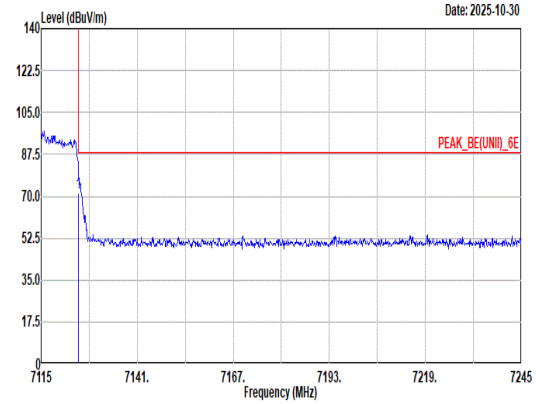
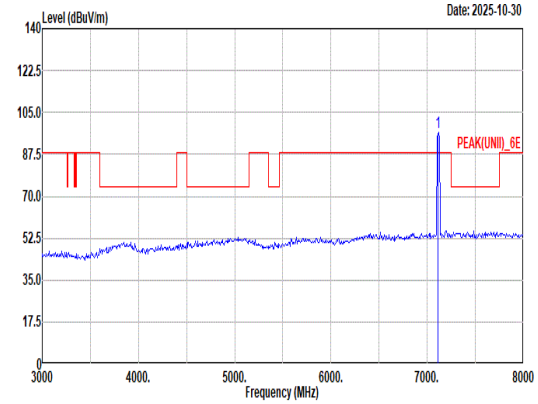
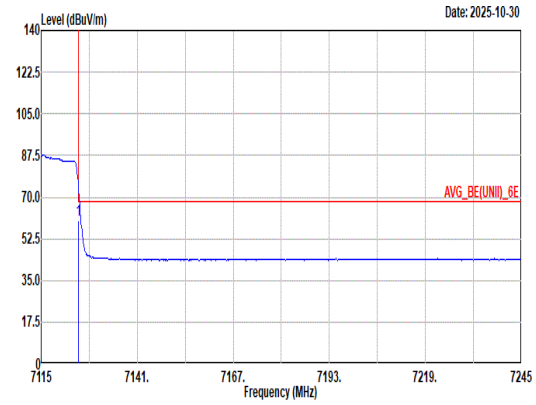
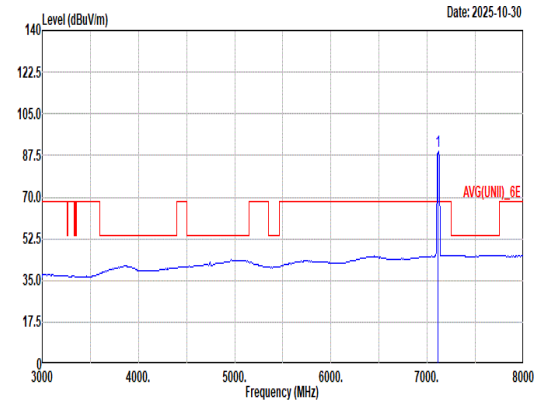
Avg – Horizontal

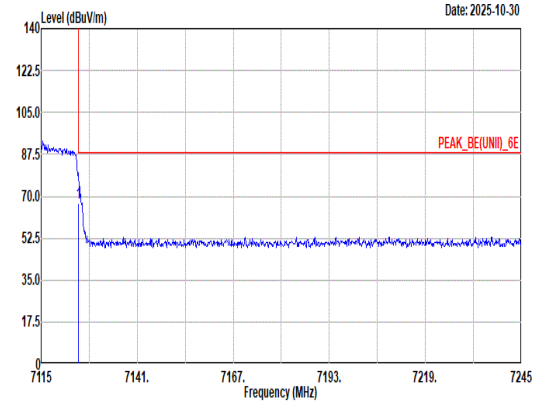
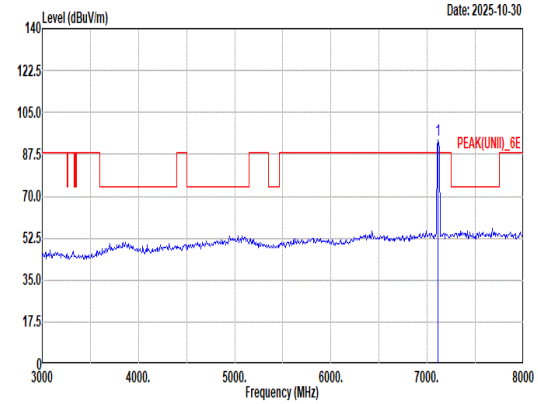
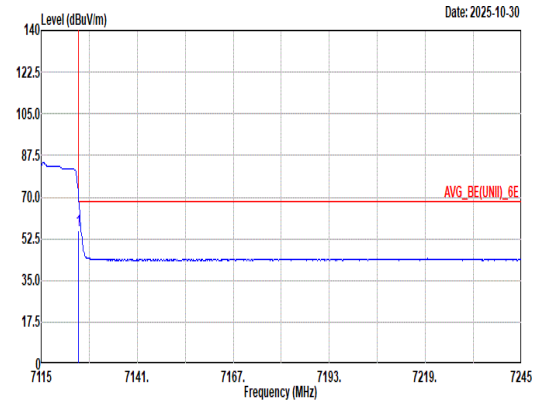
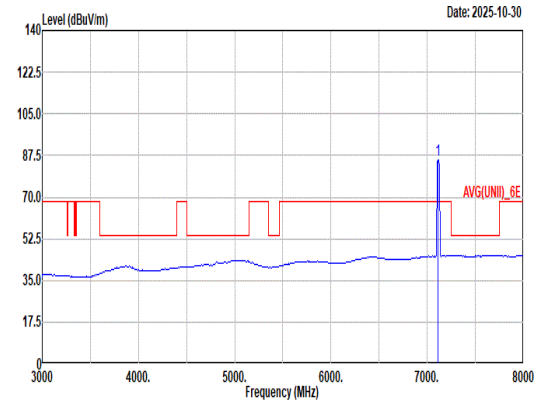
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2488.66	43.25	54.00	-10.75	30.60	26.89	7.35	31.88	10.29	101	228	Average

Avg – Fundamental

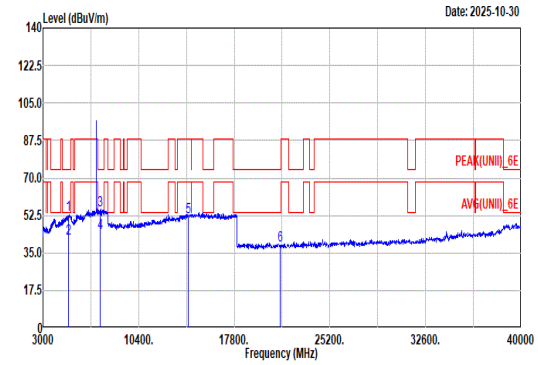
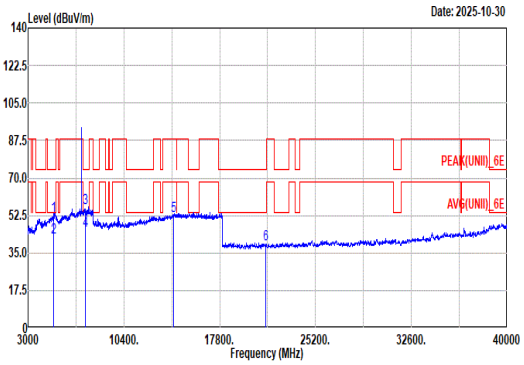
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2480.00	81.80	------	------	69.26	26.80	7.33	31.88	10.29	101	228	Average

Mode	113	
	Band Edge	
	2400-2483.5_Bluetooth-LE_CH39_2480MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C05A18EN_250702 VERTICAL Setting : Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.86 51.67 74.00 -22.33 39.01 26.90 7.36 31.89 10.29 396 127 Peak	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_LE2C05A18EN_250702 VERTICAL Setting : Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 80.95 ------ ------ 68.41 26.80 7.33 31.88 10.29 396 127 Peak
Avg	 Site : 03CH23-HY Condition: AVG_BE_54 3m DRH18-E_LE2C05A18EN_250702 VERTICAL Setting : Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2498.32 42.29 54.00 -11.71 29.63 26.90 7.36 31.89 10.29 396 127 Average	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_LE2C05A18EN_250702 VERTICAL Setting : Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 79.49 ------ ------ 66.95 26.80 7.33 31.88 10.29 396 127 Average

Mode	113	
	Band Edge	
	6.875-7.125_802.11ax HE20_CH233_Full RU_7115MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7125.01 71.38 88.20 -16.82 55.96 36.65 12.38 35.52 1.91 100 295 Peak	 Site : 03CH23-HY Condition: PEAK(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7115.00 96.61 ------ ------ 81.20 36.64 12.38 35.52 1.91 100 295 Peak
Avg	 Site : 03CH23-HY Condition: AVG_BE(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7125.01 60.21 68.20 -7.99 44.79 36.65 12.38 35.52 1.91 100 295 Average	 Site : 03CH23-HY Condition: AVG(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7115.00 89.37 ------ ------ 73.96 36.64 12.38 35.52 1.91 100 295 Average

Mode	113	
	Band Edge	
	6.875-7.125_802.11ax HE20_CH233_Full RU_7115MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7125.01 67.31 88.20 -20.89 51.89 36.65 12.38 35.52 1.91 384 0 Peak	 Site : 03CH23-HY Condition: PEAK(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7115.00 93.61 ------ ------ 78.22 36.62 12.37 35.51 1.91 384 0 Peak
Avg	 Site : 03CH23-HY Condition: AVG_BE(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7125.01 55.95 68.20 -12.25 40.53 36.65 12.38 35.52 1.91 384 0 Average	 Site : 03CH23-HY Condition: AVG(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 7115.00 85.84 ------ ------ 70.43 36.64 12.38 35.52 1.91 384 0 Average

Mode	113
	Harmonic
	2400-2483.5_Bluetooth-LE_CH39_2480MHz
	6.875-7.125_802.11ax HE20_CH233_Full RU_7115MHz
ANT	1

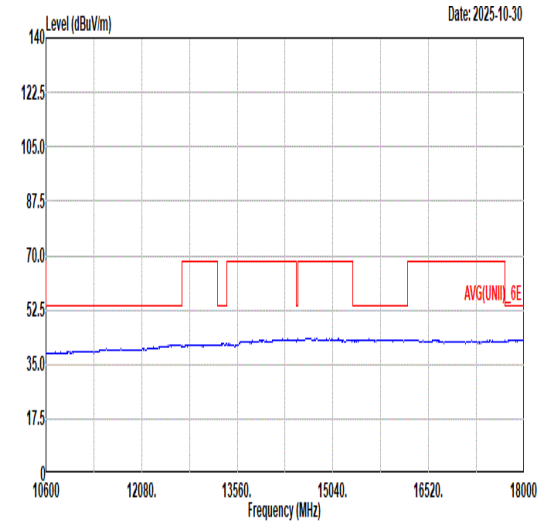
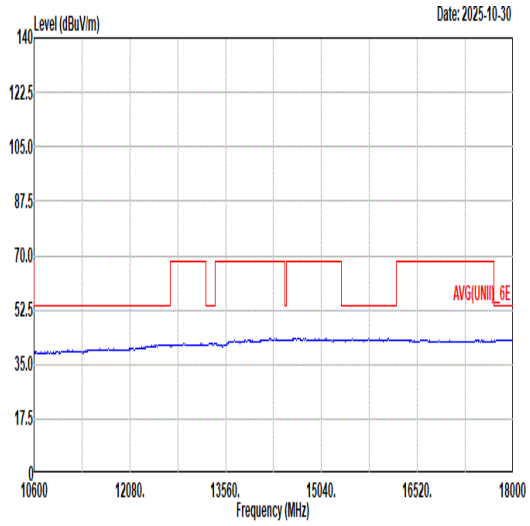
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH23-HY Condition: PEAK(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL	 Site : 03CH23-HY Condition: PEAK(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 VERTICAL

Horizontal:

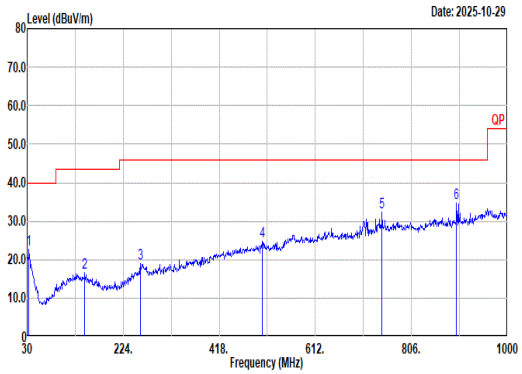
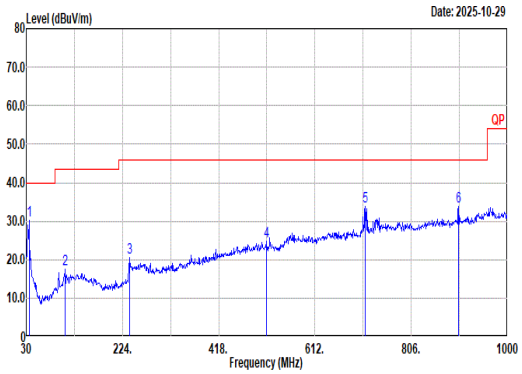
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4960.00	52.85	74.00	-21.15	40.08	32.92	10.38	32.24	1.71	--	--	Peak
2	4960.00	41.67	54.00	-12.33	28.90	32.92	10.38	32.24	1.71	--	--	Average
3	7440.00	54.75	74.00	-19.25	38.86	37.14	12.59	35.78	1.94	--	--	Peak
4	7440.00	44.53	54.00	-9.47	28.64	37.14	12.59	35.78	1.94	--	--	Average
5	14230.00	51.90	88.20	-36.30	35.85	41.14	17.62	43.11	0.40	--	--	Peak
6	21345.00	38.66	74.00	-35.34	49.58	38.20	21.64	61.22	-9.54	--	--	Peak

Vertical:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4960.00	52.52	74.00	-21.48	39.75	32.92	10.38	32.24	1.71	--	--	Peak
2	4960.00	42.30	54.00	-11.70	29.53	32.92	10.38	32.24	1.71	--	--	Average
3	7440.00	55.77	74.00	-18.23	39.88	37.14	12.59	35.78	1.94	--	--	Peak
4	7440.00	45.52	54.00	-8.48	29.63	37.14	12.59	35.78	1.94	--	--	Average
5	14230.00	52.47	88.20	-35.73	36.42	41.14	17.62	43.11	0.40	--	--	Peak
6	21345.00	38.84	74.00	-35.16	49.76	38.20	21.64	61.22	-9.54	--	--	Peak

Mode	113	
	Harmonic	
	2400-2483.5_Bluetooth-LE_CH39_2480MHz	
	6.875-7.125_802.11ax HE20_CH233_Full RU_7115MHz	
ANT	1	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH23-HY Condition: AVG(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 HORIZONTAL	 Site : 03CH23-HY Condition: AVG(UNII)_6E 3m DRH18-E_LE2C05A18EN_250702 VERTICAL

Mode	113
	LF
	2400-2483.5_Bluetooth-LE_CH39_2480MHz
	6.875-7.125_802.11ax HE20_CH233_Full RU_7115MHz
ANT	1

Pol.	Horizontal	Vertical
QP/ Peak		

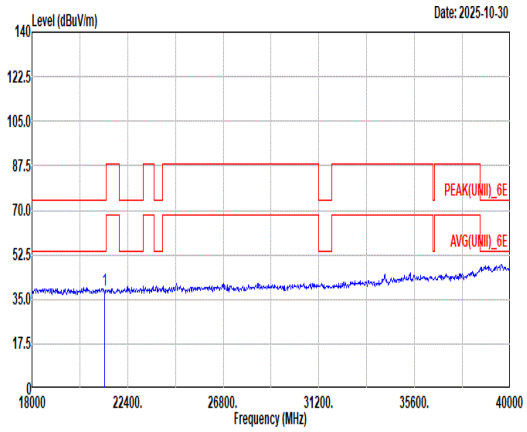
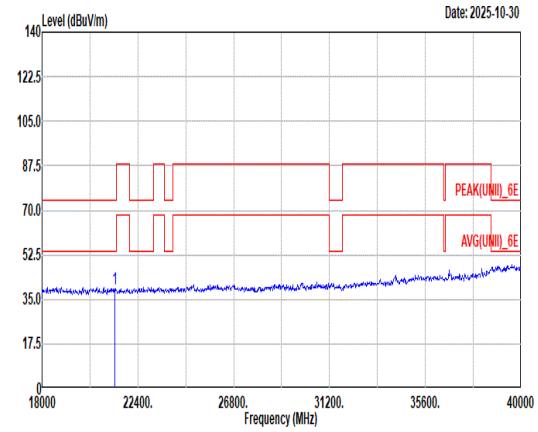
Site : 03CH23-HY
Condition: QP 3m CBL6111D_62028 & 003_241127 HORIZONTAL

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	33.88	22.67	40.00	-17.33	31.84	22.68	0.69	32.56	0.02	--	--	Peak
2	146.40	16.56	43.50	-26.94	30.09	17.30	1.56	32.45	0.06	--	--	Peak
3	258.92	19.11	46.00	-26.89	29.64	19.84	2.08	32.52	0.07	--	--	Peak
4	504.33	24.61	46.00	-21.39	30.06	24.09	3.02	32.68	0.12	--	--	Peak
5	746.83	32.34	46.00	-13.66	32.92	28.13	3.70	32.55	0.14	--	--	Peak
6	897.18	34.86	46.00	-11.14	33.16	29.23	4.02	31.71	0.16	--	--	Peak

Site : 03CH23-HY
Condition: QP 3m CBL6111D_62028 & 003_241127 VERTICAL

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	35.82	30.28	40.00	-9.72	40.29	21.80	0.73	32.56	0.02	--	--	Peak
2	108.57	17.51	43.50	-25.99	31.87	16.77	1.32	32.50	0.05	--	--	Peak
3	238.55	20.51	46.00	-25.49	30.93	20.03	1.99	32.51	0.07	--	--	Peak
4	514.03	24.79	46.00	-21.21	30.14	24.17	3.04	32.69	0.13	--	--	Peak
5	712.88	33.76	46.00	-12.24	35.86	26.83	3.60	32.66	0.13	--	--	Peak
6	902.03	33.76	46.00	-12.24	31.97	29.26	4.04	31.67	0.16	--	--	Peak

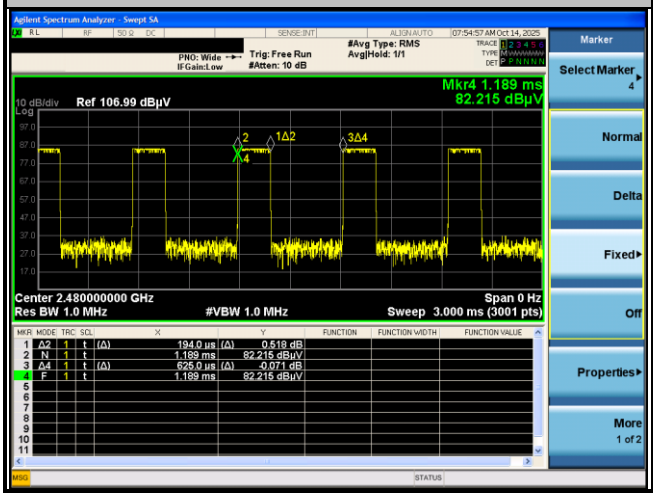
Mode	113
	SHF
	2400-2483.5_Bluetooth-LE_CH39_2480MHz
	6.875-7.125_802.11ax HE20_CH233_Full RU_7115MHz
ANT	1

Pol.	Horizontal	Vertical
Peak	 Site : 03CH23-HY Condition: PEAK(UNII)_6E 1m BBHA9170_1225_250702 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 21345.00 38.66 74.00 -35.34 49.58 38.20 21.64 61.22 -9.54 -- -- Peak	 Site : 03CH23-HY Condition: PEAK(UNII)_6E 1m BBHA9170_1225_250702 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 21345.00 38.84 74.00 -35.16 49.76 38.20 21.64 61.22 -9.54 -- -- Peak

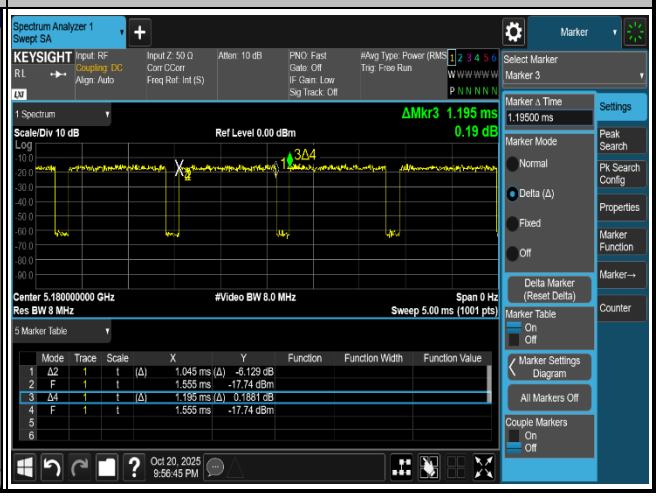
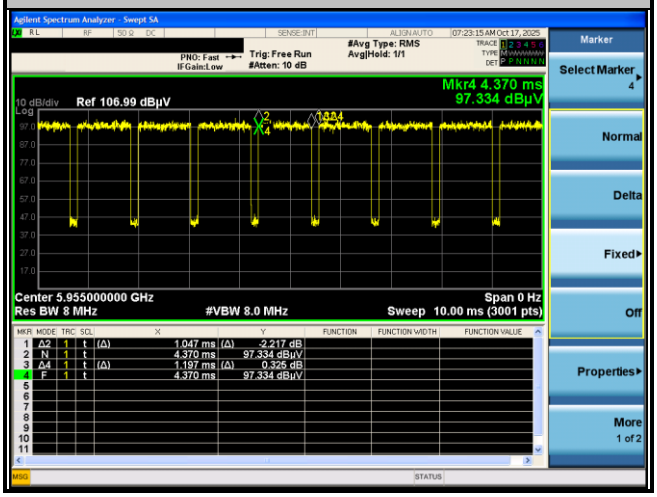
Appendix B. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 2Mbps	31.04	194	5.15	5.6kHz
5GHz 802.11ax HE80 Full RU	66.37	296	3.38	3.6KHz
6GHz 802.11ax HE20 Full RU	87.47	1047	0.96	1kHz

Bluetooth - LE for 2Mbps



5GHz 802.11ax HE80 Full RU



6GHz 802.11ax HE20 Full RU