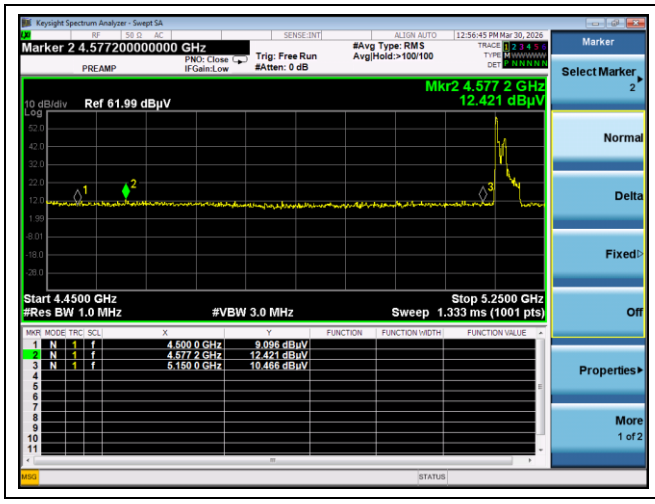
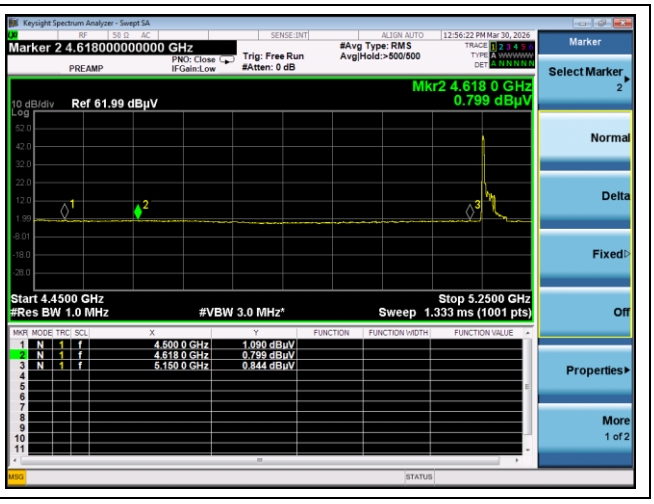
11ax_HE40_26T

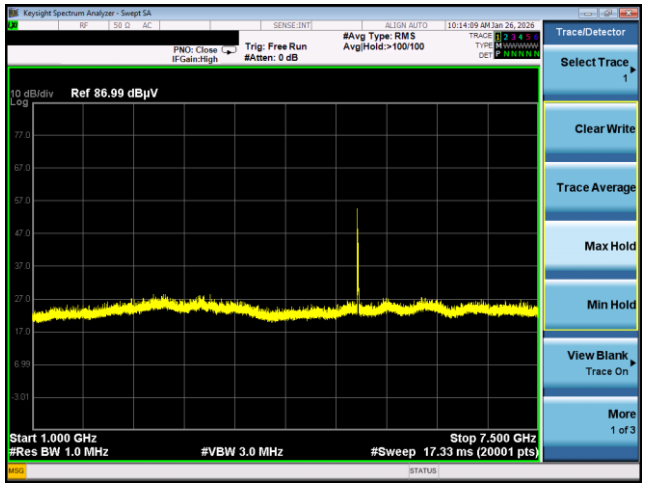
Low channel Band edge (Peak) - UNII-1



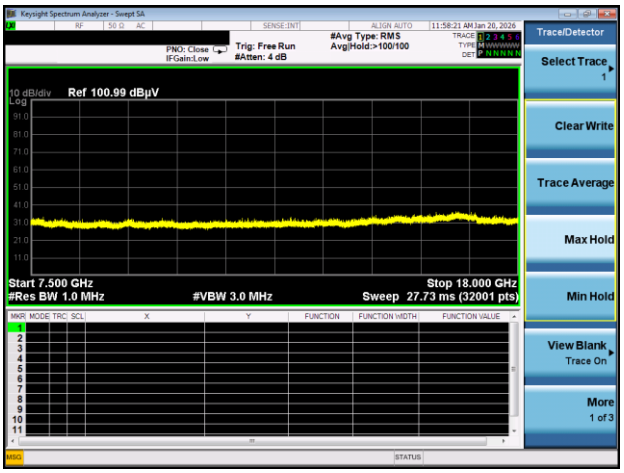
Low channel Band edge (Average) - UNII-1



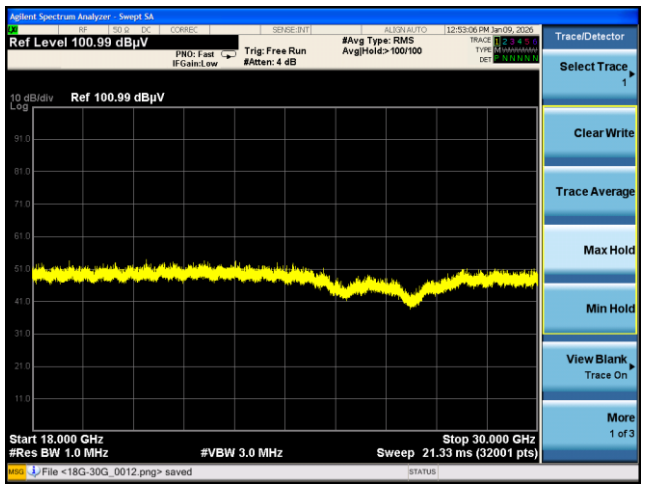
Radiated Spurious Emissions



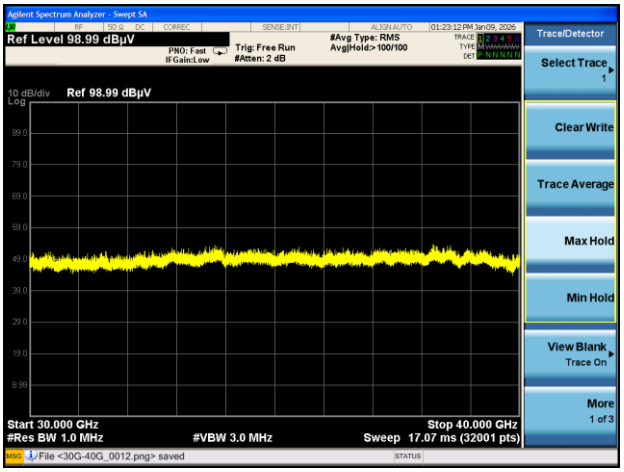
1 ㎓ ~ 7.5 ㎓



7.5 ㎓ ~ 18 ㎓



18 ㎓ ~ 30 ㎓

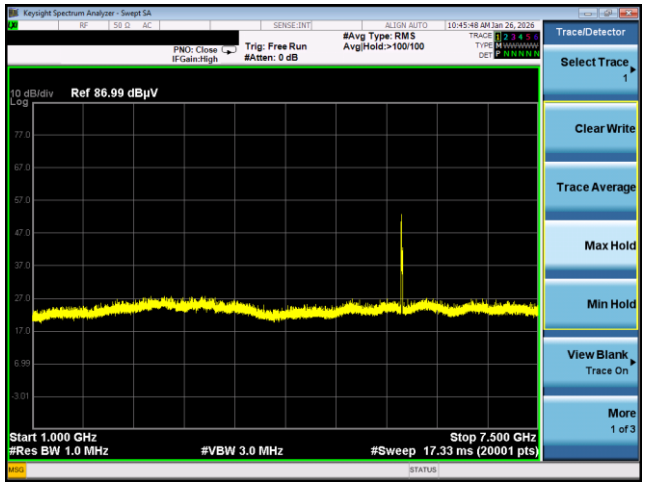


30 ㎓ ~ 40 ㎓

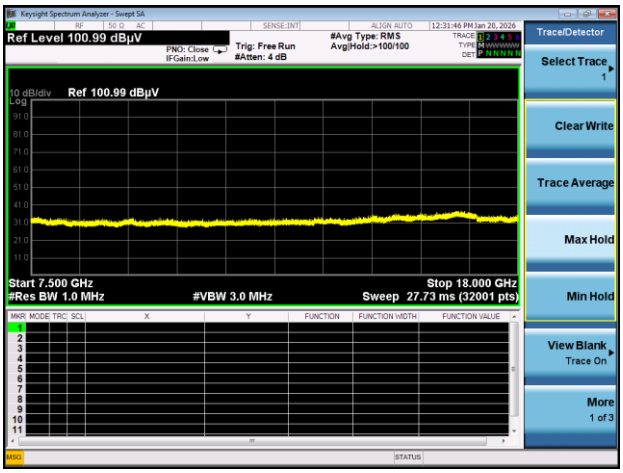
Low channel Band edge (Peak) - UNII-3

High channel Band edge (Peak) - UNII-3

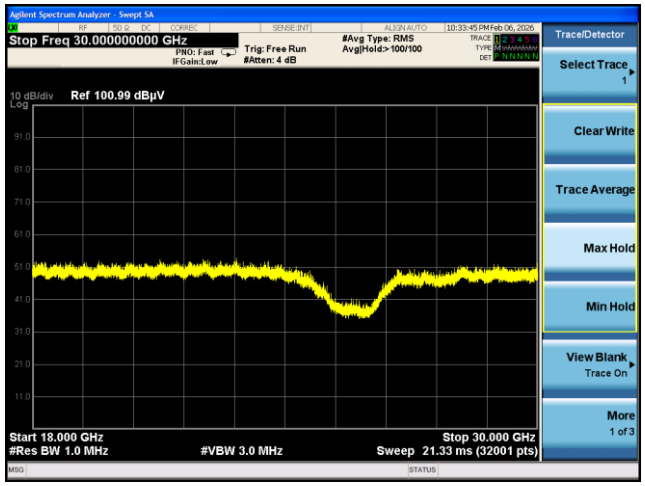
Radiated Spurious Emissions



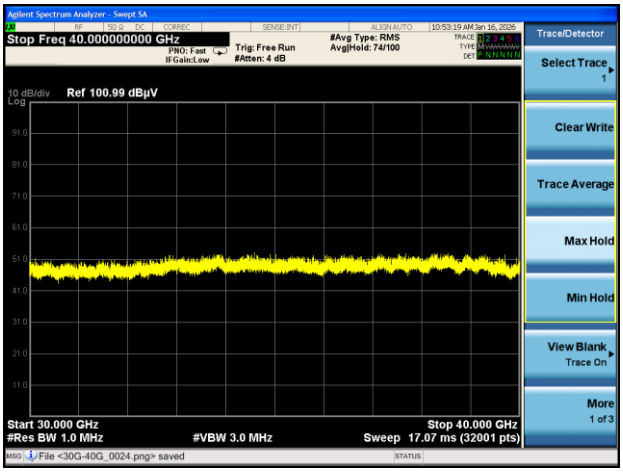
1 ㎓ ~ 7.5 ㎓



7.5 ㎓ ~ 18 ㎓



18 ㎓ ~ 30 ㎓



30 ㎓ ~ 40 ㎓

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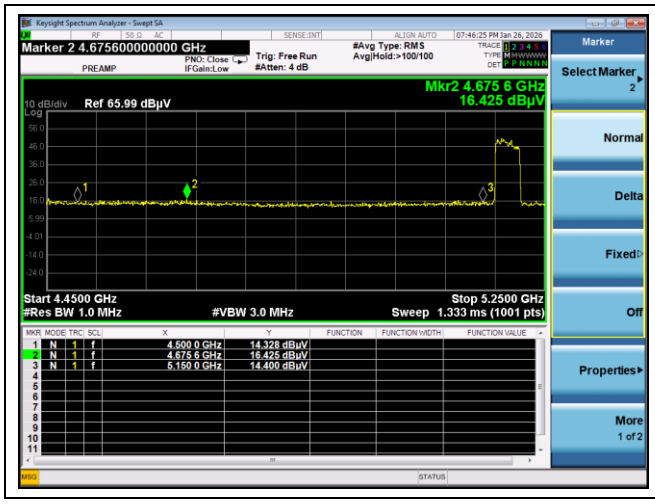
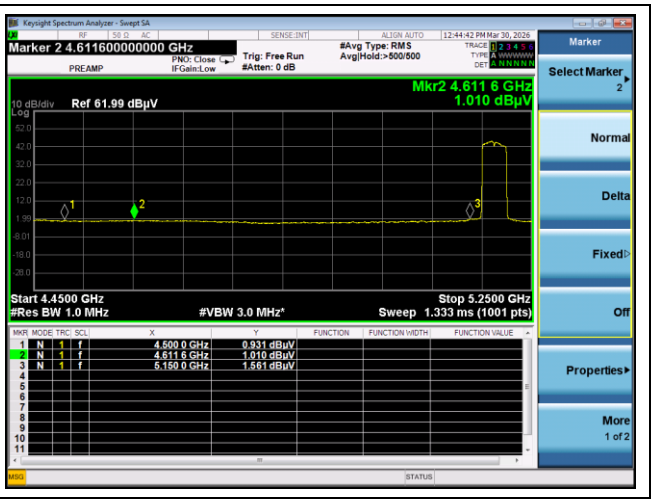
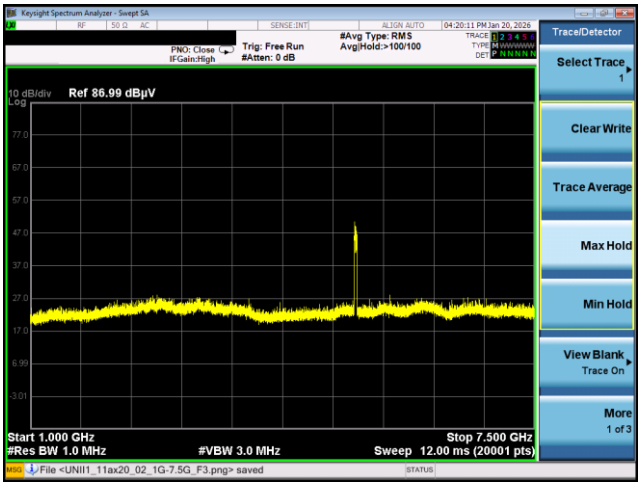
Low channel Band edge (Peak) - UNII-1



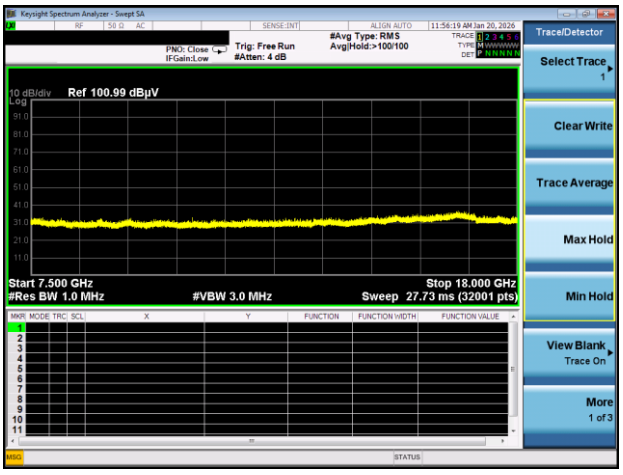
Low channel Band edge (Average) - UNII-1



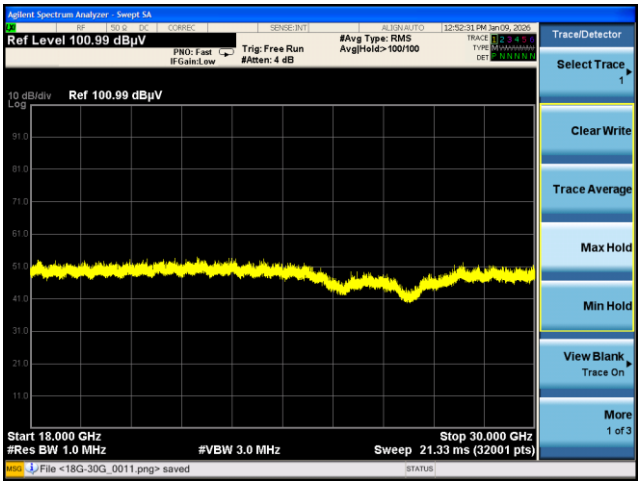
Radiated Spurious Emissions



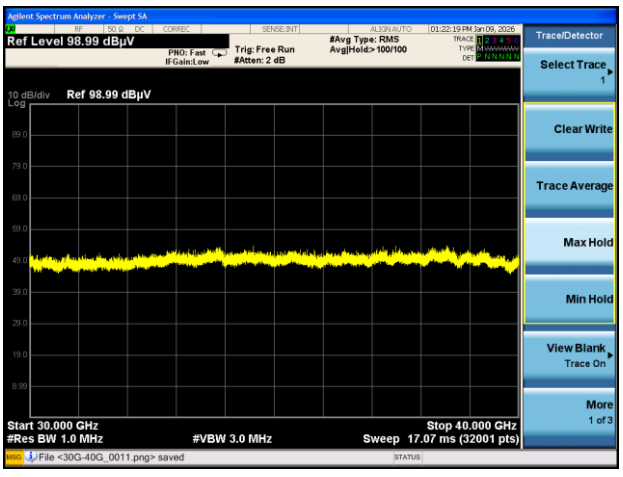
1 ㎓ ~ 7.5 ㎓



7.5 ㎓ ~ 18 ㎓

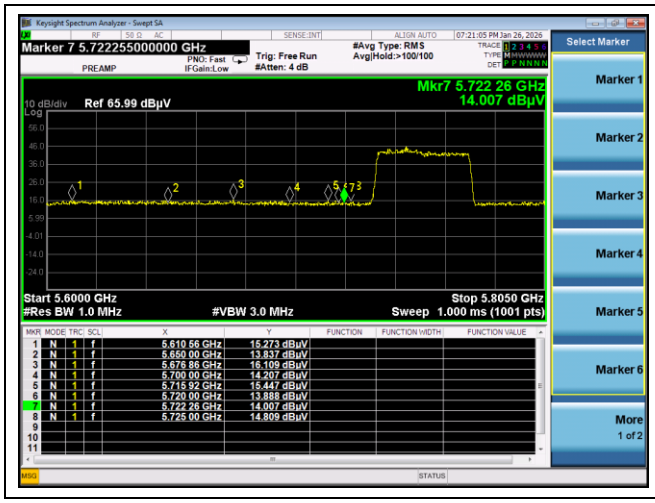


18 ㎓ ~ 30 ㎓

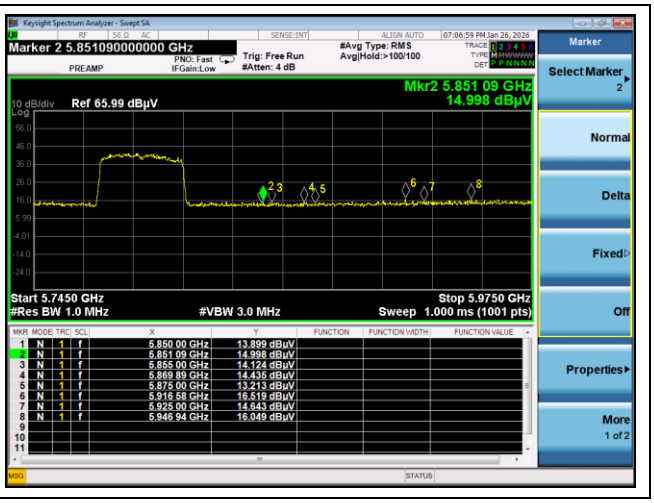


30 ㎓ ~ 40 ㎓

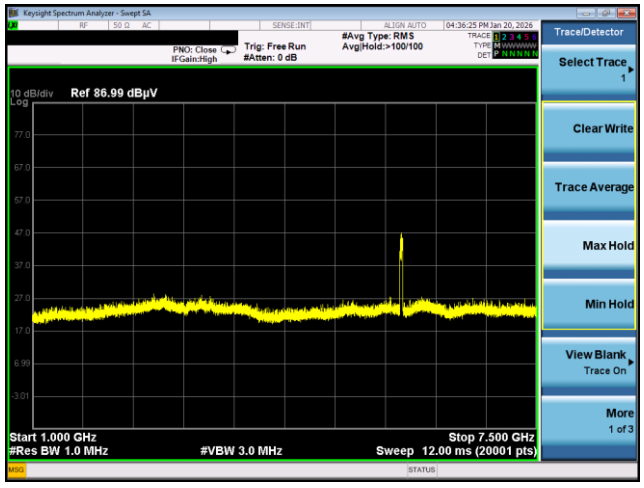
Low channel Band edge (Peak) - UNII-3



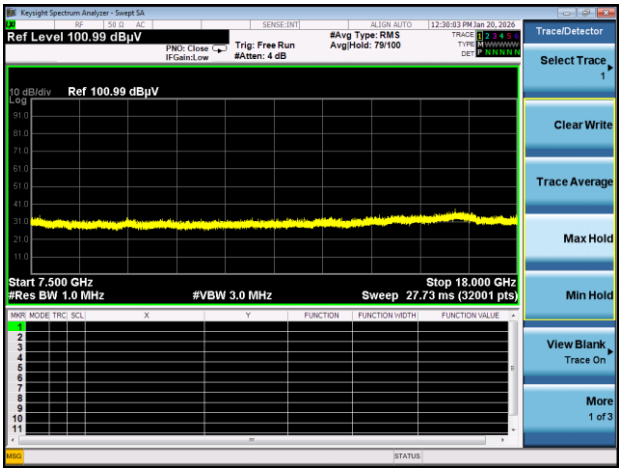
High channel Band edge (Peak) - UNII-3



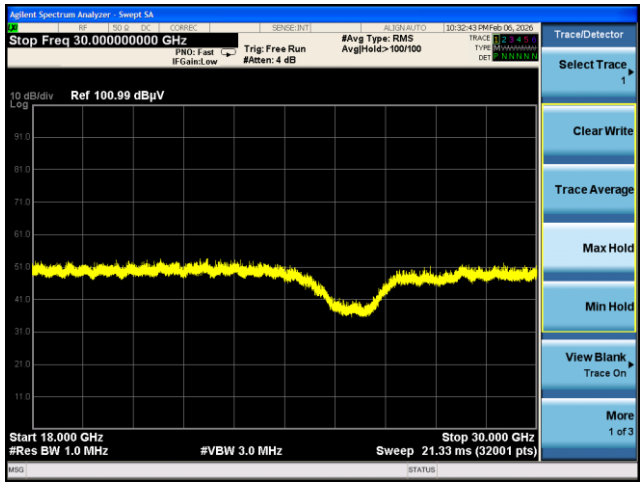
Radiated Spurious Emissions



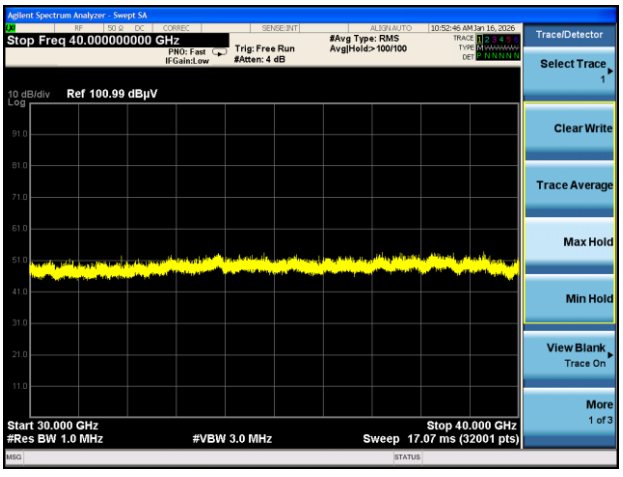
1 ㎓ ~ 7.5 ㎓



7.5 ㎓ ~ 18 ㎓



18 ㎓ ~ 30 ㎓



30 ㎓ ~ 40 ㎓

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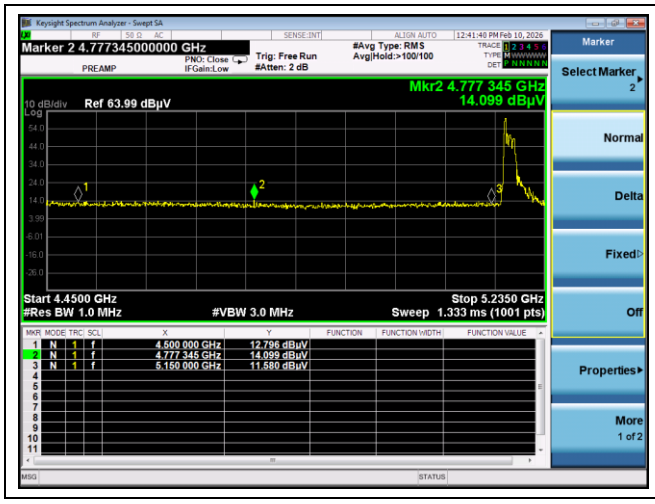
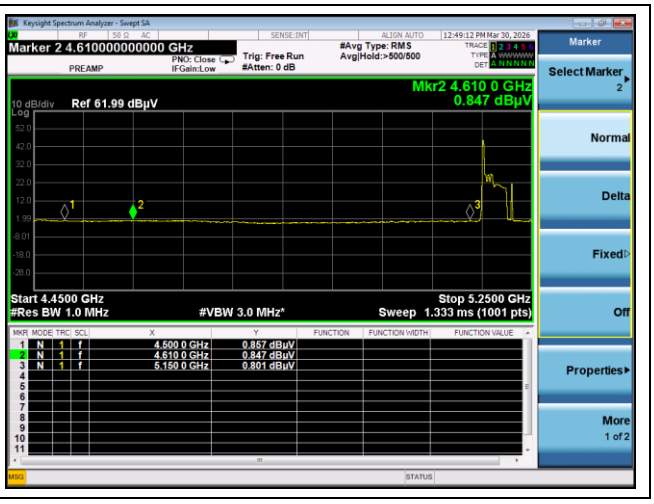
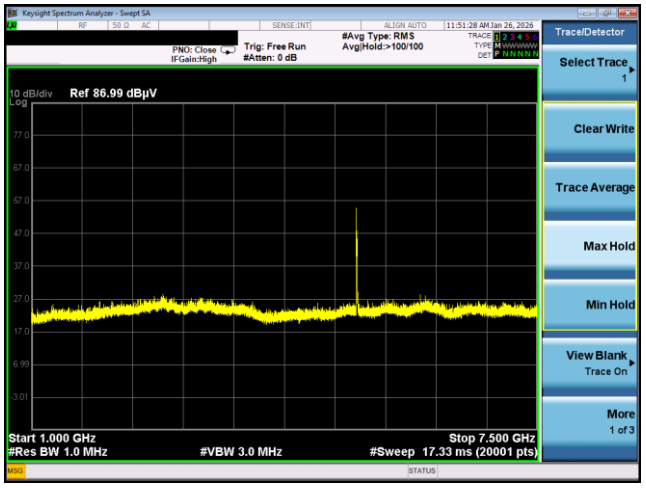
Low channel Band edge (Peak) - UNII-1



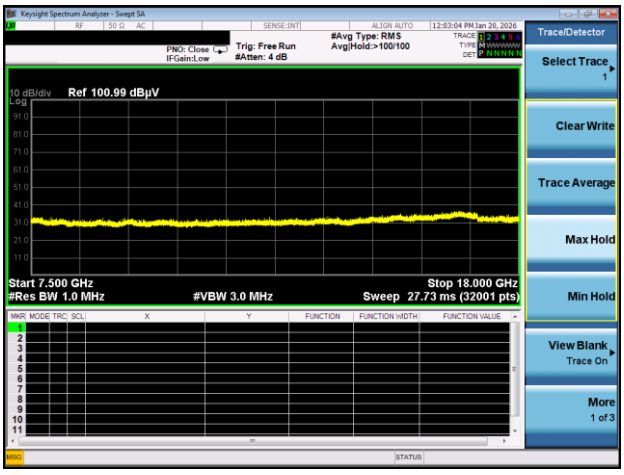
Low channel Band edge (Average) - UNII-1



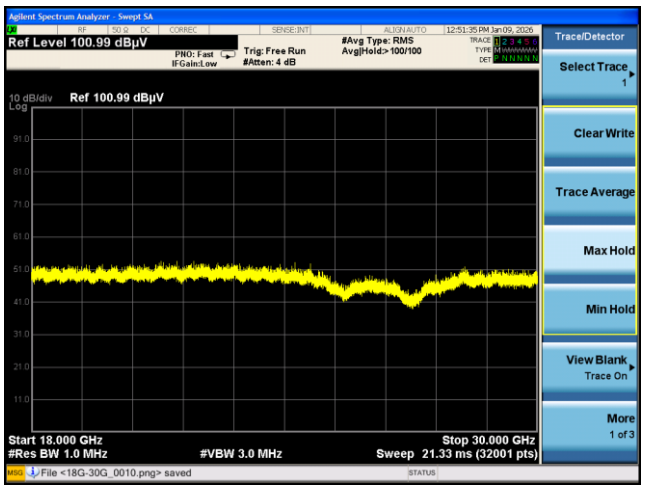
Radiated Spurious Emissions



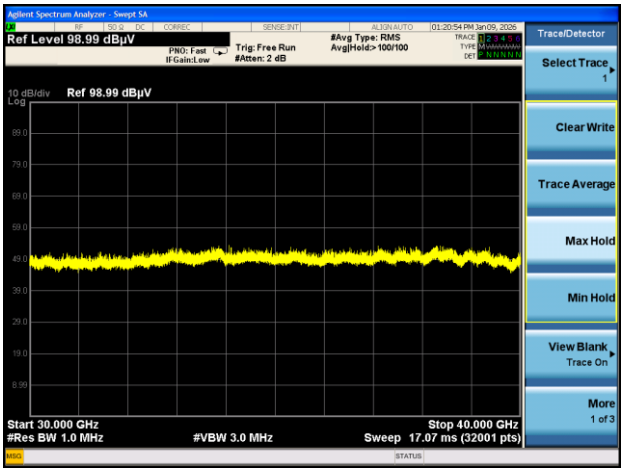
1 ㎓ ~ 7.5 ㎓



7.5 ㎓ ~ 18 ㎓



18 ㎓ ~ 30 ㎓

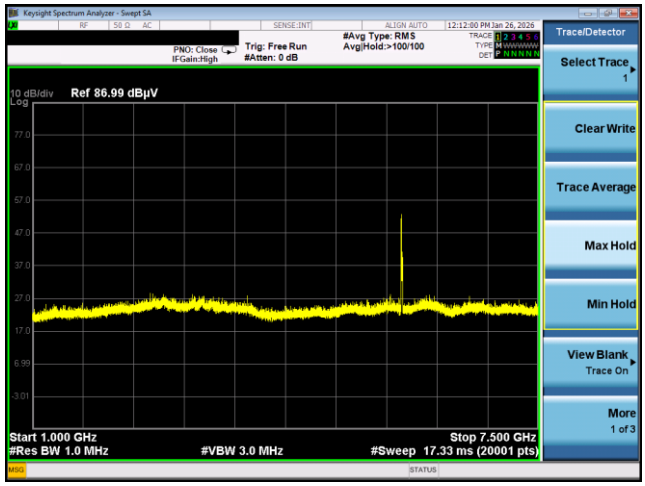


30 ㎓ ~ 40 ㎓

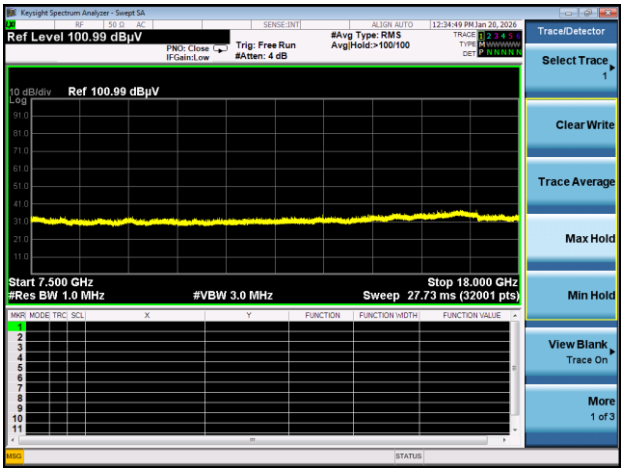
Low channel Band edge (Peak) - UNII-3

High channel Band edge (Peak) - UNII-3

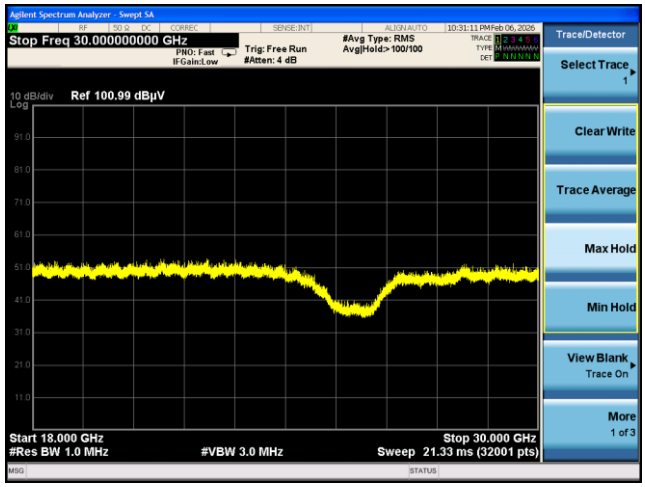
Radiated Spurious Emissions



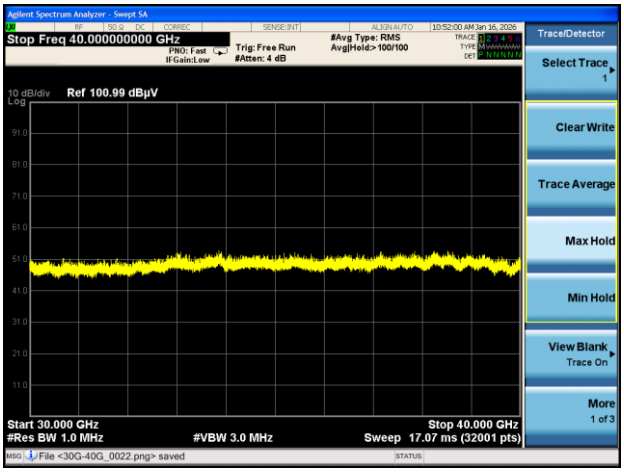
1 ㎓ ~ 7.5 ㎓



7.5 ㎓ ~ 18 ㎓



18 ㎓ ~ 30 ㎓



30 ㎓ ~ 40 ㎓

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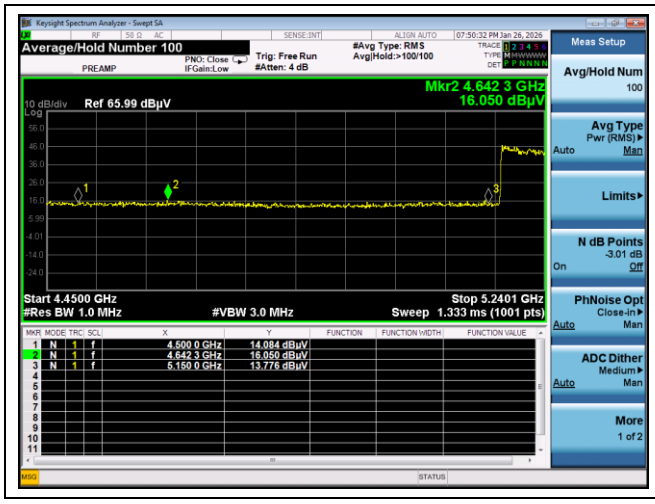
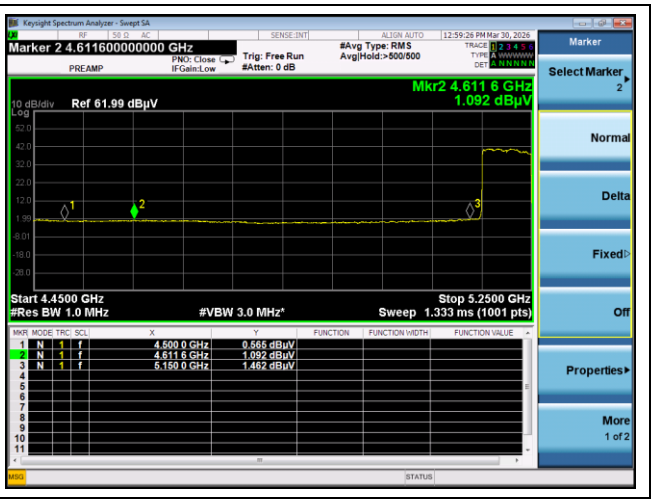
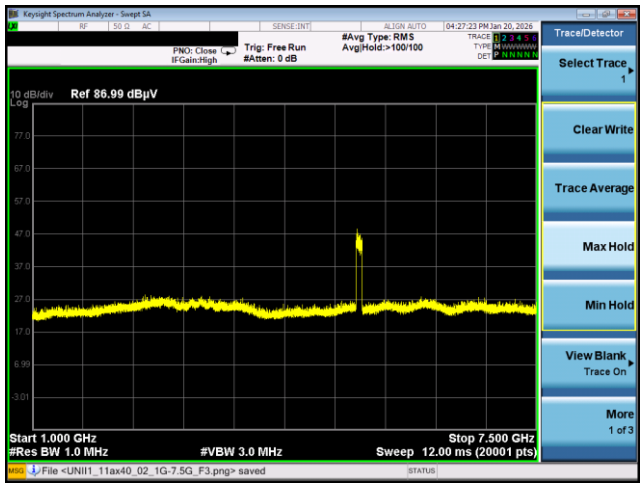
Middle channel Band edge (Peak) - UNII-1



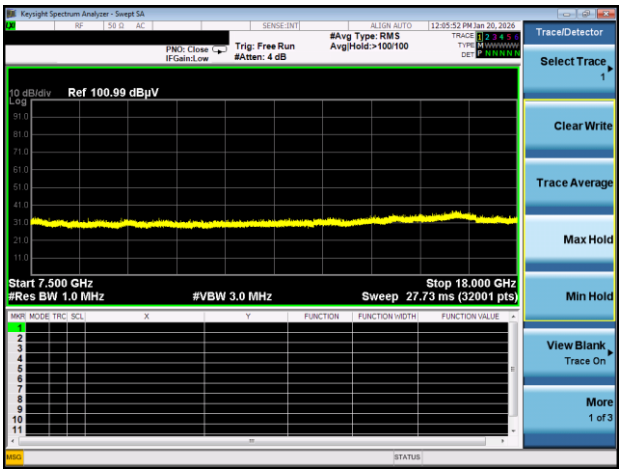
Middle channel Band edge (Average) - UNII-1



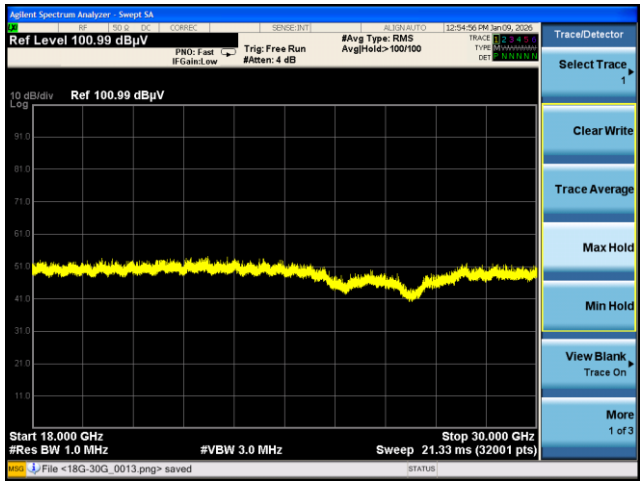
Radiated Spurious Emissions



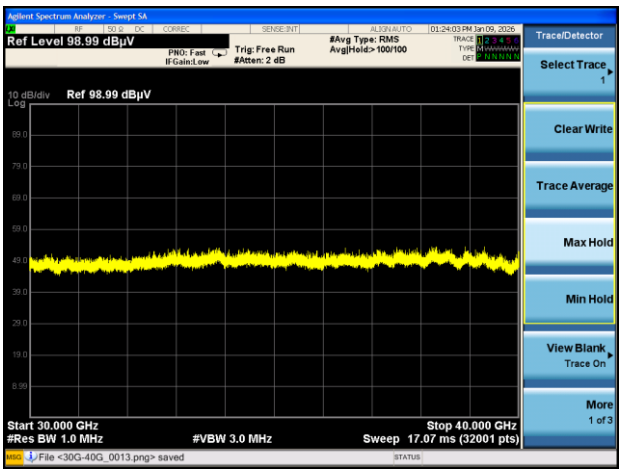
1 ㎓ ~ 7.5 ㎓



7.5 ㎓ ~ 18 ㎓

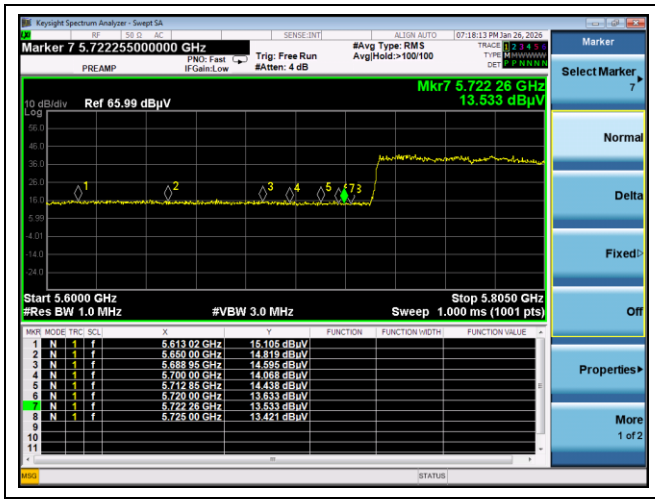


18 ㎓ ~ 30 ㎓

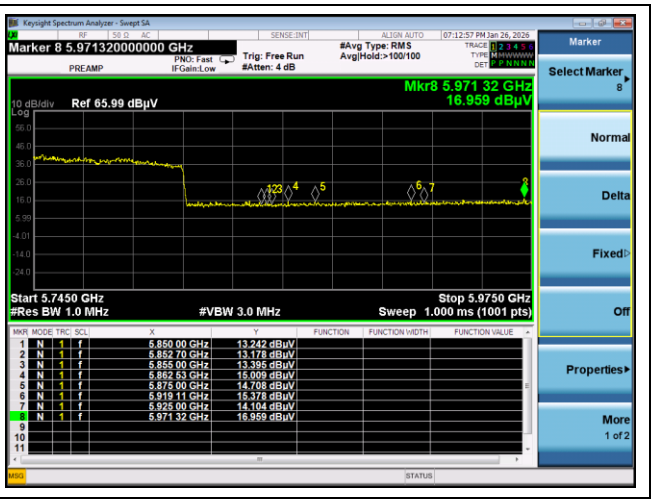


30 ㎓ ~ 40 ㎓

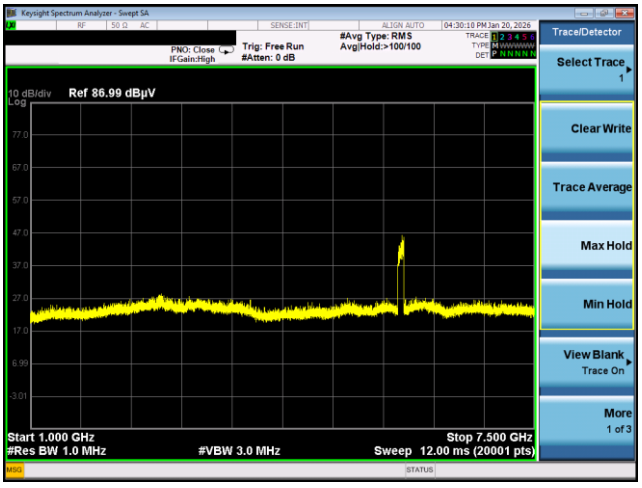
Low channel Band edge (Peak) - UNII-3



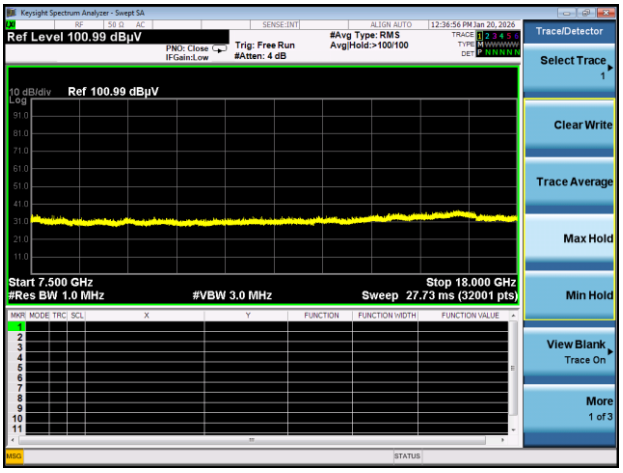
High channel Band edge (Peak) - UNII-3



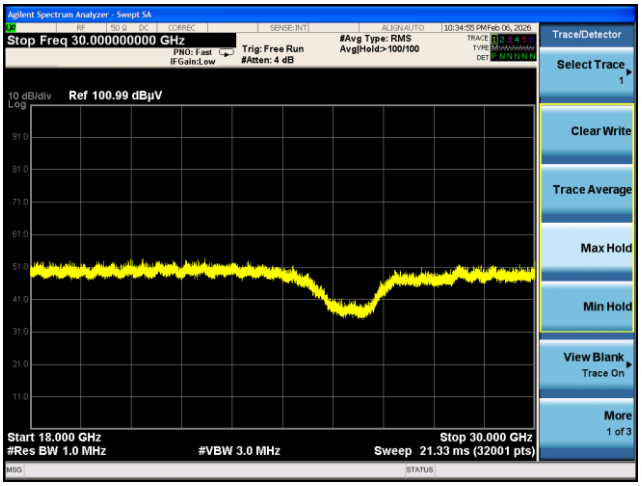
Radiated Spurious Emissions



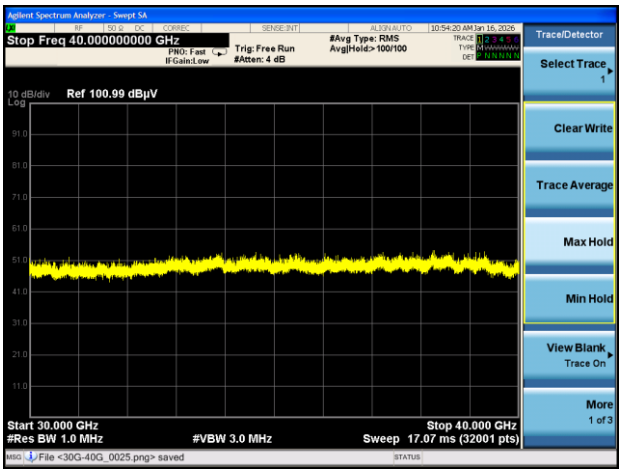
1 ㎓ ~ 7.5 ㎓



7.5 ㎓ ~ 18 ㎓



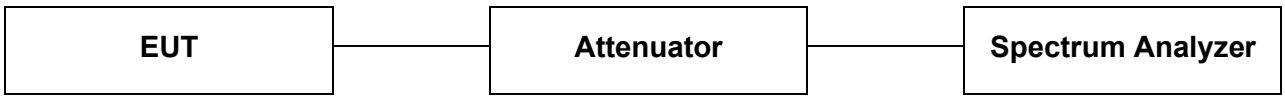
18 ㎓ ~ 30 ㎓



30 ㎓ ~ 40 ㎓

3. 26 dB Bandwidth & 99 % Bandwidth

3.1. Test Setup



3.2. Limit

None; for reporting purpose only.

3.3. Test Procedure

3.3.1. 26 dB Bandwidth

1. This measurement settings are specified in section Ⅱ.C.1 of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = approximately 1 % of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

3.3.2. 99 % Bandwidth

1. This measurement settings are specified in section Ⅱ.D of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set center frequency to the nominal EUT channel center frequency.
3. Set span = 1.5 times to 5.0 times the OBW.
4. Set RBW = 1 % to 5 % of the OBW.
5. Set VBW ≥ 3 x RBW.
6. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
7. Use the 99 % power bandwidth function of the instrument (if available).
8. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % occupied bandwidth is the difference between these two frequencies.

In the result,

- DFS requirements are not applicable in the 5 150 ㎒ ~ 5 250 ㎒.

3.4. Test Result

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 %

SISO (Ant.3)

Test mode: 11ax_HE20_26T

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)			99 % Bandwidth (㎒)		
				Ru Index			Ru Index		
				Low	Middle	High	Low	Middle	High
UNII-1	5 180	MCS9	36	19.810	18.671	20.290	18.441	17.256	18.605
	5 220		44	19.890	18.791	20.190	18.430	17.252	18.546
	5 240		48	19.770	18.691	20.650	18.472	17.254	18.544
UNII-3	5 745		149	19.870	18.651	20.390	18.504	17.273	18.584
	5 785		157	19.910	18.691	20.230	18.440	17.259	18.511
	5 805		161	19.750	18.691	19.970	18.552	17.229	18.514

Test mode: 11ax_HE20_SU

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)			99 % Bandwidth (㎒)		
				Ru Index			Ru Index		
				Low	Middle	High	Low	Middle	High
UNII-1	5 180	MCS9	36	-	21.729	-	-	19.086	-
	5 220		44	-	21.869	-	-	19.081	-
	5 240		48	-	21.809	-	-	19.072	-
UNII-3	5 745		149	-	21.649	-	-	19.062	-
	5 785		157	-	21.789	-	-	19.085	-
	5 805		161	-	21.909	-	-	19.060	-

Test mode: 11ax_HE40_26T

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)			99 % Bandwidth (㎒)		
				Ru Index			Ru Index		
				Low	Middle	High	Low	Middle	High
UNII-1	5 190	MCS9	38	20.101	22.669	21.220	18.265	20.828	18.479
	5 230		46	20.540	23.628	21.340	18.381	21.001	19.144
UNII-3	5 755		151	20.620	22.989	21.500	18.004	20.806	18.996
	5 795		159	20.700	23.188	21.749	18.342	21.008	19.827

Test mode: 11ax_HE40_SU

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)			99 % Bandwidth (㎒)		
				Ru Index			Ru Index		
				Low	Middle	High	Low	Middle	High
UNII-1	5 190	MCS9	38	-	39.980	-	-	37.585	-
	5 230		46	-	40.020	-	-	37.529	-
UNII-3	5 755		151	-	40.100	-	-	37.620	-
	5 795		159	-	40.020	-	-	37.570	-

Test mode: 11ax_HE80_26T

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)			99 % Bandwidth (㎒)		
				Ru Index			Ru Index		
				Low	Middle	High	Low	Middle	High
UNII-1	5 210	MCS9	42	23.337	45.098	25.095	28.978	44.123	35.456
UNII-3	5 775		155	24.216	44.458	24.775	29.875	43.029	32.551

Test mode: 11ax_HE80_SU

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)			99 % Bandwidth (㎒)		
				Ru Index			Ru Index		
				Low	Middle	High	Low	Middle	High
UNII-1	5 210	MCS9	42	-	82.039	-	-	77.086	-
UNII-3	5 775		155	-	81.319	-	-	77.139	-

- MIMO (Ant. 1 + Ant. 2)

Test mode: 11ax_HE20_26T

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 180	MCS9	36	20.050	20.160	19.091	18.701	20.510	20.240
	5 220		44	19.910	20.000	19.150	18.661	20.630	20.320
	5 240		48	19.910	19.940	19.310	18.641	20.590	20.000
UNII-3	5 745		149	19.950	19.940	19.130	18.621	20.570	20.240
	5 785		157	19.950	19.960	18.951	18.601	20.910	20.280
	5 805		161	19.990	19.960	19.250	18.641	20.830	20.240

Band	Frequency (㎒)	Data Rate	Ch.	99 % Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 180	MCS9	36	18.482	18.422	17.408	17.183	18.768	18.621
	5 220		44	18.413	18.382	17.400	17.143	18.762	18.581
	5 240		48	18.384	18.501	17.419	17.183	18.726	18.621
UNII-3	5 745		149	18.435	18.382	17.344	17.183	18.727	18.581
	5 785		157	18.397	18.422	17.388	17.103	18.753	18.581
	5 805		161	18.454	18.422	17.295	17.183	18.588	18.581

Test mode: 11ax_HE20_SU

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 180	MCS9	36	-	-	21.829	21.698	-	-
	5 220		44	-	-	21.789	21.658	-	-
	5 240		48	-	-	21.849	21.778	-	-
UNII-3	5 745		149	-	-	21.769	21.738	-	-
	5 785		157	-	-	21.869	21.638	-	-
	5 805		161	-	-	21.909	21.758	-	-

Band	Frequency (㎒)	Data Rate	Ch.	99 % Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 180	MCS9	36	-	-	19.154	19.101	-	-
	5 220		44	-	-	19.149	19.141	-	-
	5 240		48	-	-	19.158	19.101	-	-
UNII-3	5 745		149	-	-	19.162	19.101	-	-
	5 785		157	-	-	19.127	19.141	-	-
	5 805		161	-	-	19.130	19.101	-	-

Test mode: 11ax_HE40_26T

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 190	MCS9	38	19.461	19.341	21.669	23.736	20.540	19.381
	5 230		46	20.141	19.621	21.949	23.816	20.101	19.262
UNII-3	5 755		151	19.941	19.341	22.189	22.897	20.381	19.581
	5 795		159	19.701	19.302	22.149	23.576	20.341	19.621

Band	Frequency (㎒)	Data Rate	Ch.	99 % Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 190	MCS9	38	18.275	18.142	20.019	21.339	18.446	18.222
	5 230		46	18.229	18.142	20.226	21.578	18.143	18.222
UNII-3	5 755		151	18.214	18.142	20.479	21.818	18.236	18.222
	5 795		159	18.321	18.222	20.819	21.738	18.301	18.222

Test mode: 11ax_HE40_SU

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 190	MCS9	38	-	-	39.940	40.080	-	-
	5 230		46	-	-	39.620	40.160	-	-
UNII-3	5 755		151	-	-	40.100	40.080	-	-
	5 795		159	-	-	40.220	39.920	-	-

Band	Frequency (㎒)	Data Rate	Ch.	99 % Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 190	MCS9	38	-	-	37.631	37.562	-	-
	5 230		46	-	-	37.638	37.562	-	-
UNII-3	5 755		151	-	-	37.626	37.483	-	-
	5 795		159	-	-	37.507	37.562	-	-

Test mode: 11ax_HE80_26T

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 210	MCS9	42	21.019	20.939	41.100	39.640	22.937	21.658
UNII-3	5 775		155	21.259	20.939	41.100	39.720	21.898	20.939

Band	Frequency (㎒)	Data Rate	Ch.	99 % Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 210	MCS9	42	21.973	19.021	38.732	37.083	23.897	19.660
UNII-3	5 775		155	22.136	19.181	38.400	37.083	23.401	19.341

Test mode: 11ax_HE80_SU

Band	Frequency (㎒)	Data Rate	Ch.	26 ㏈ Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 210	MCS9	42	-	-	82.279	81.678	-	-
UNII-3	5 775		155	-	-	81.559	81.678	-	-

Band	Frequency (㎒)	Data Rate	Ch.	99 % Bandwidth (㎒)					
				Ru Index					
				Low		Middle		High	
				Ant.1	Ant.2	Ant.1	Ant.2	Ant.1	Ant.2
UNII-1	5 210	MCS9	42	-	-	77.141	77.043	-	-
UNII-3	5 775		155	-	-	77.167	77.043	-	-

- Test plots

26 dB Bandwidth

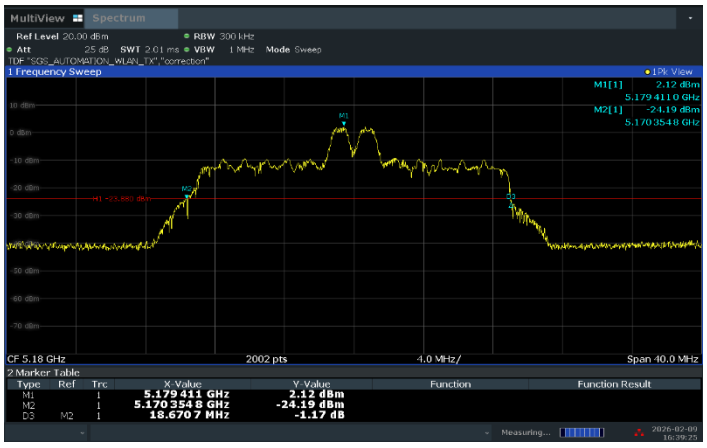
SISO (Ant.3)

11ax_HE20_26T (UNII-1)

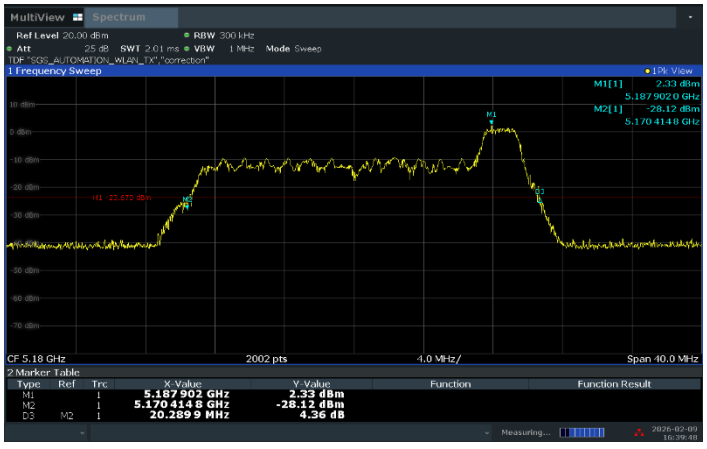
Low Channel (5 180 ㎒)

0 RU

4 RU



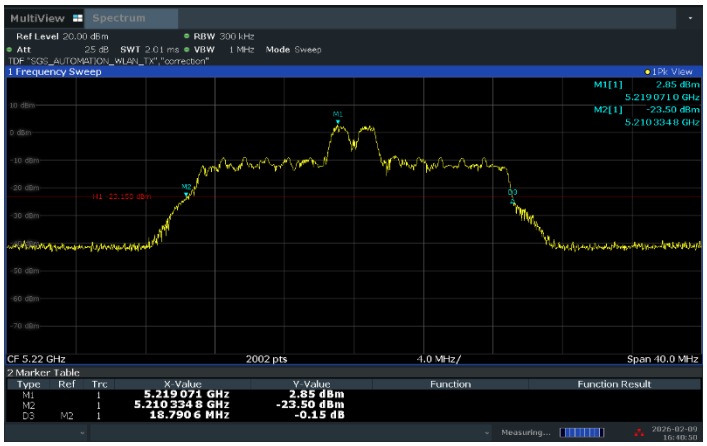
8 RU



Middle Channel (5 220 ㎒)

0 RU

4 RU



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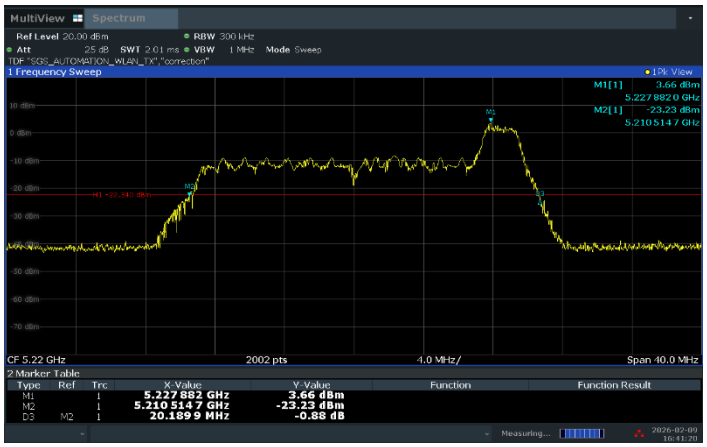
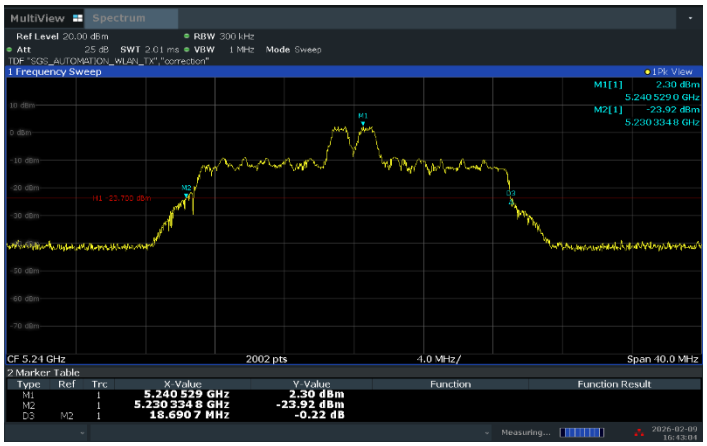


High Channel (5 240 ㎒)

0 RU

4 RU



8 RU