

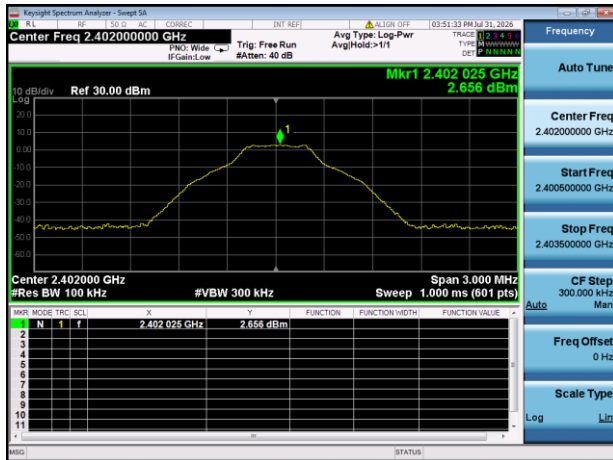
A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

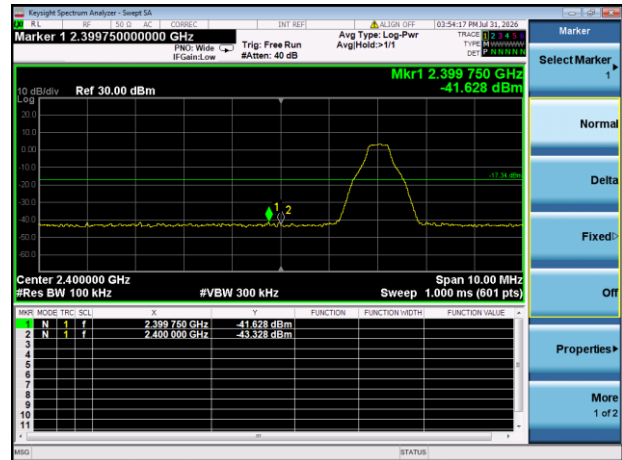
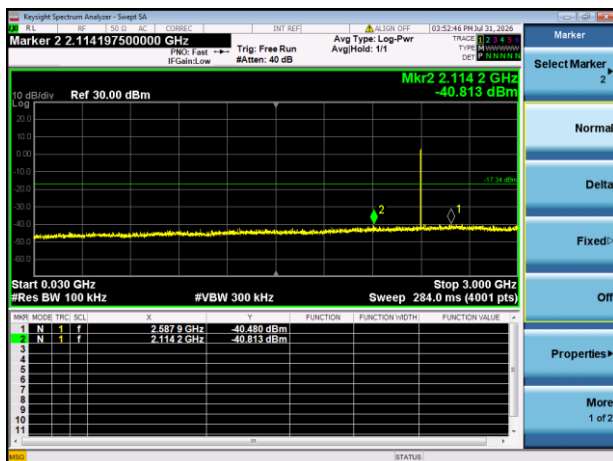
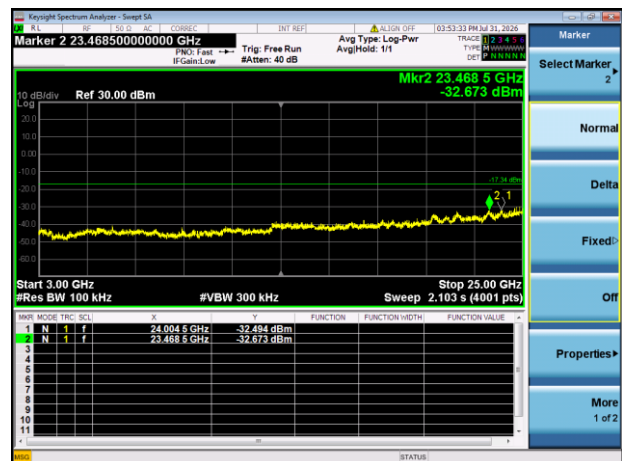
GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-32.49	2.66	-17.34	Pass
Middle	-32.19	3.40	-16.60	Pass
High	-30.79	3.13	-16.87	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-31.75	0.12	-19.88	Pass
Middle	-31.52	0.68	-19.32	Pass
High	-31.25	0.46	-19.54	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-31.24	3.92	-16.09	Pass
8-DPSK	-39.31	0.72	-19.28	Pass

Test Plots

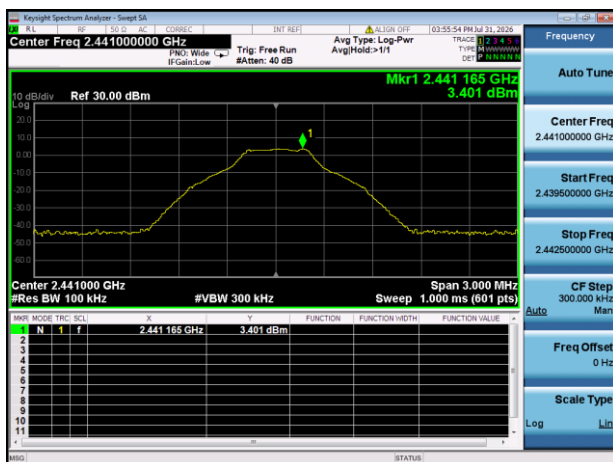
GFSK LOW CHANNEL, CARRIER LEVEL



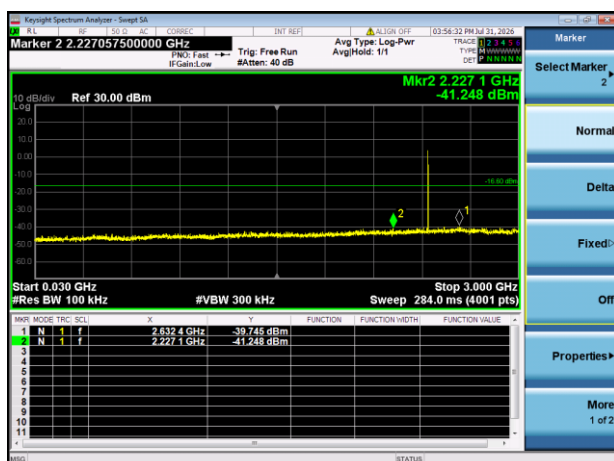
GFSK LOW CHANNEL, BAND EDGE

GFSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHzGFSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

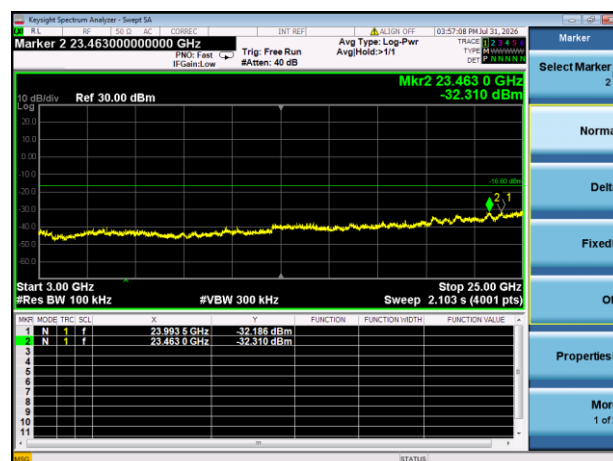
GFSK MIDDLE CHANNEL, CARRIER LEVEL



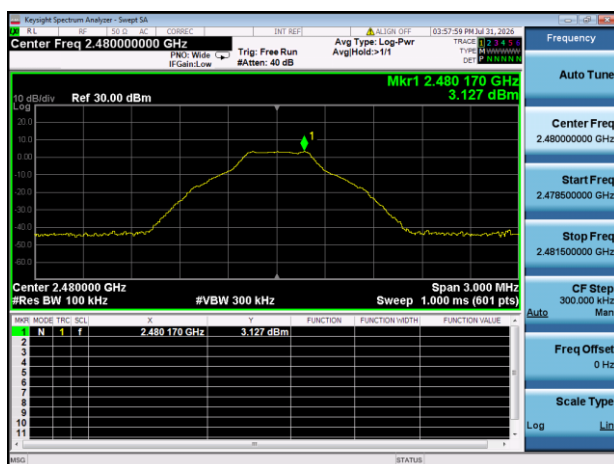
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



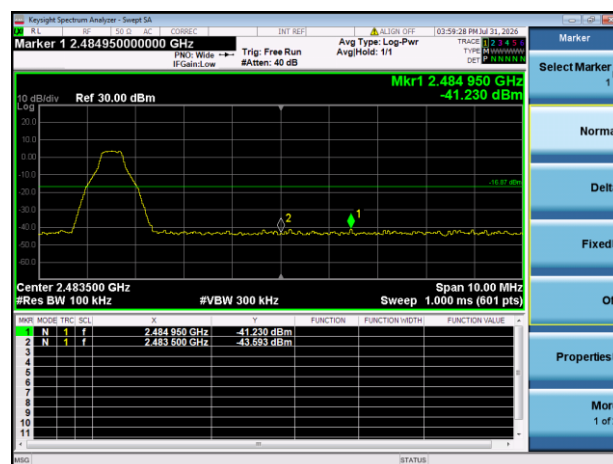
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



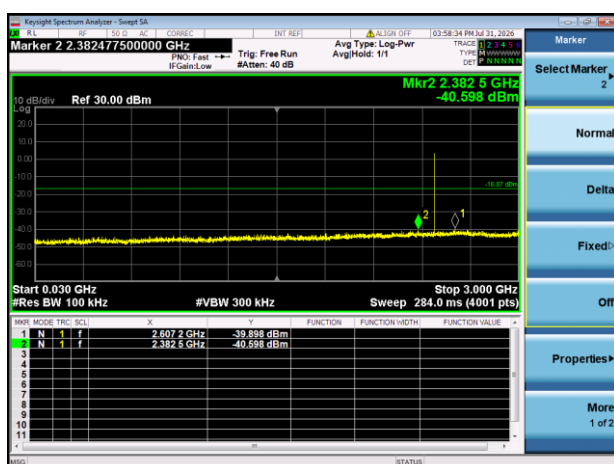
GFSK HIGH CHANNEL, CARRIER LEVEL



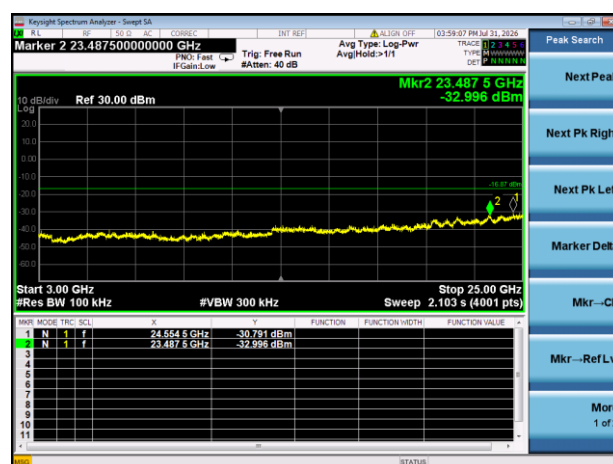
GFSK HIGH CHANNEL, BAND EDGE



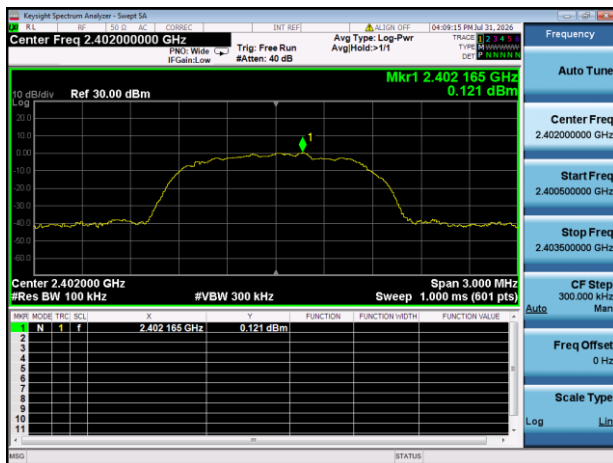
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



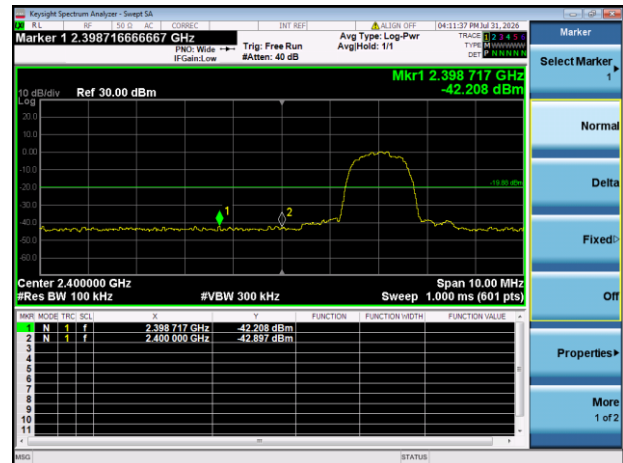
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL

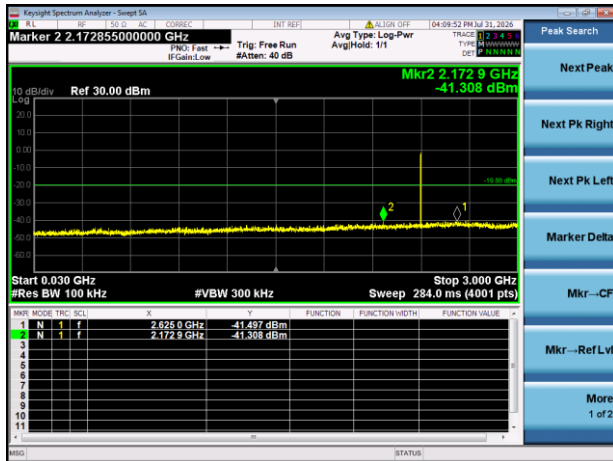


8-DPSK LOW CHANNEL, BAND EDGE



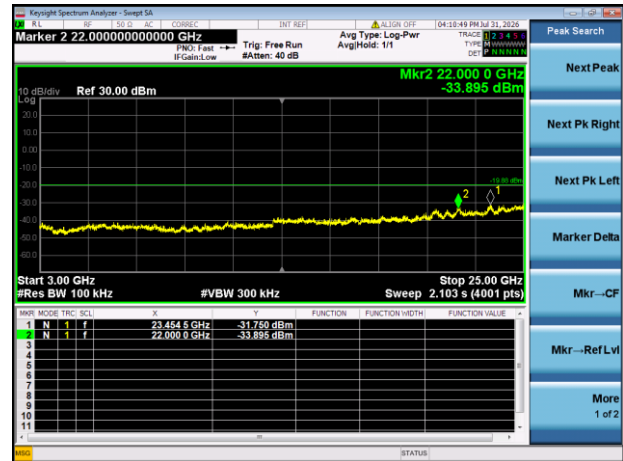
8-DPSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

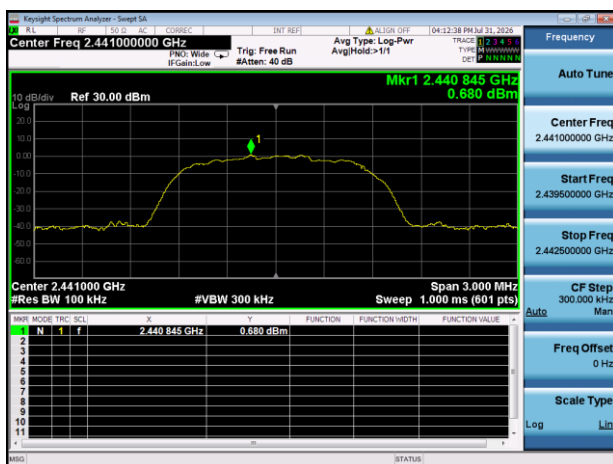


8-DPSK LOW CHANNEL, SPURIOUS

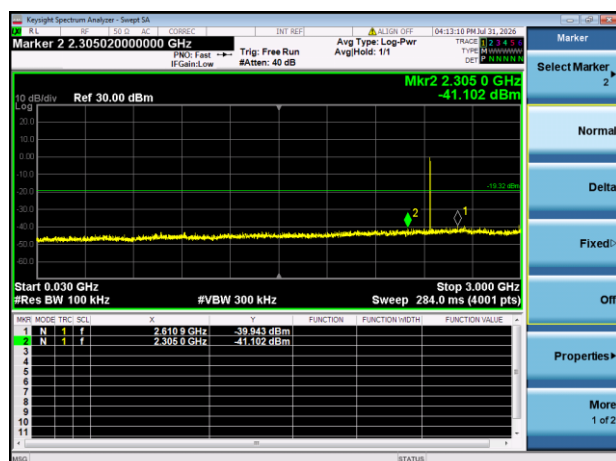
3 GHz ~ 25 GHz



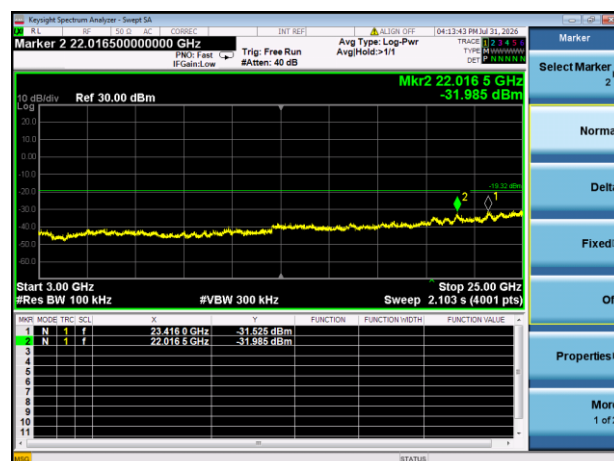
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



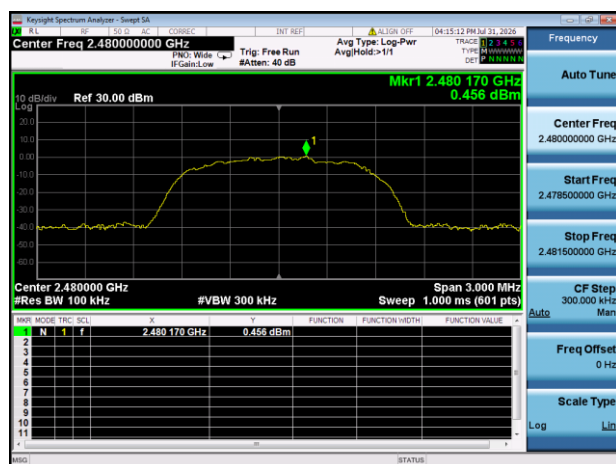
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



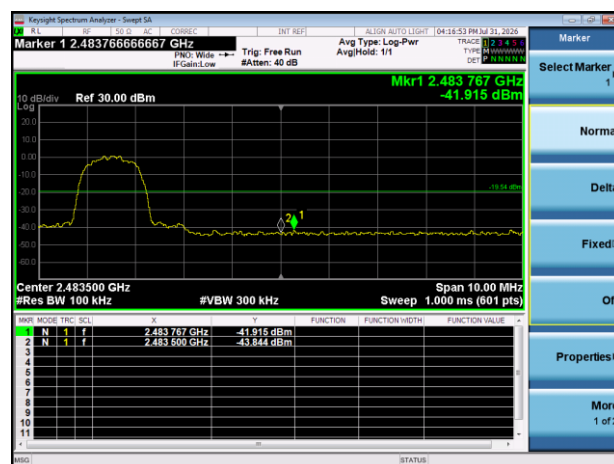
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



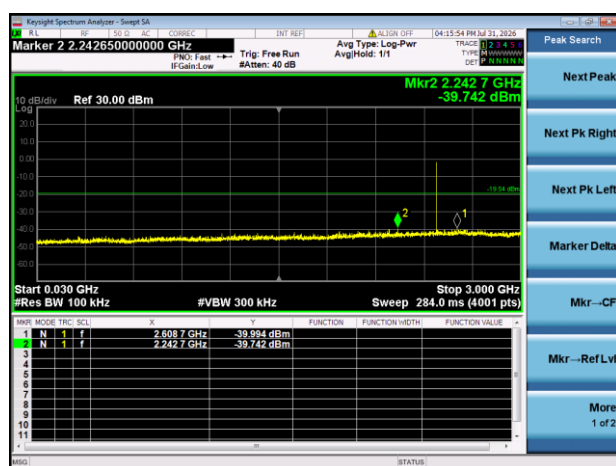
8-DPSK HIGH CHANNEL, CARRIER LEVEL



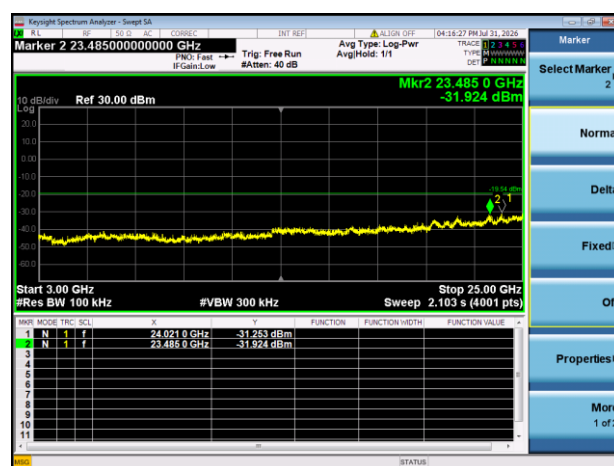
8-DPSK HIGH CHANNEL, BAND EDGE



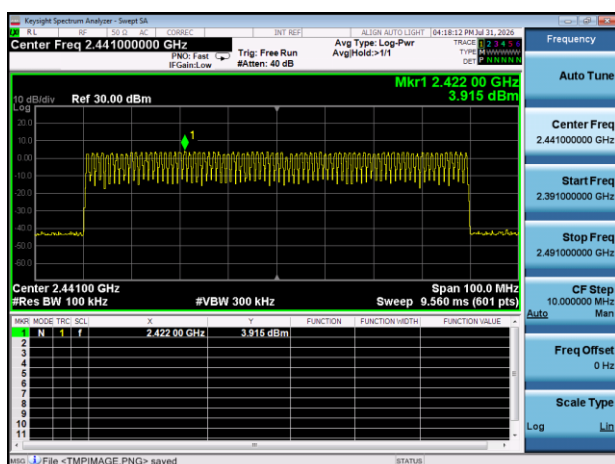
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



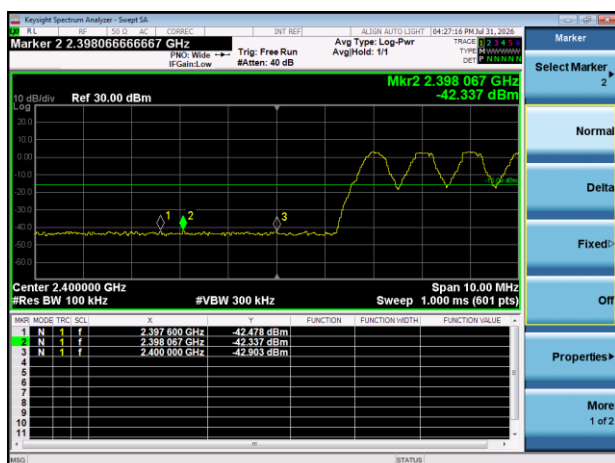
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



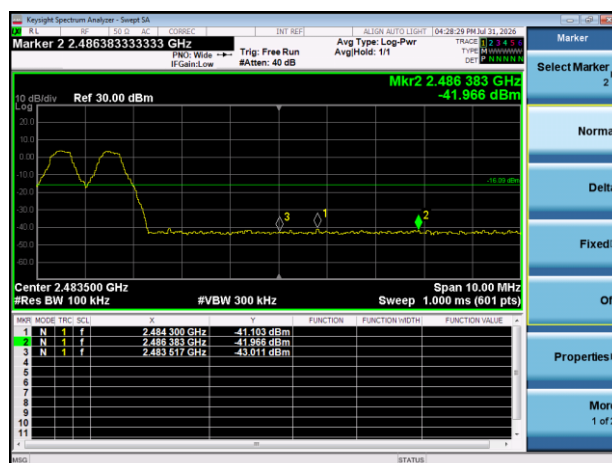
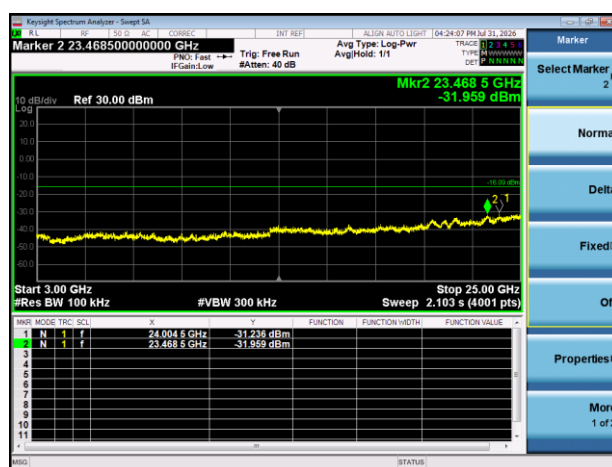
GFSK HOPPING, CARRIER LEVEL



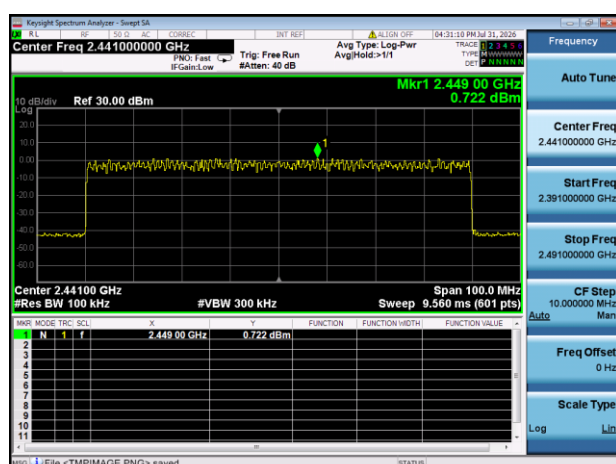
GFSK HOPPING BAND EDGE (LOW)



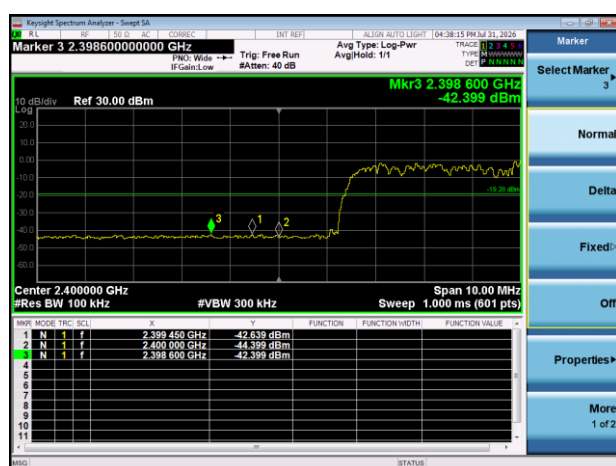
GFSK HOPPING BAND EDGE (HIGH)

GFSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHzGFSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

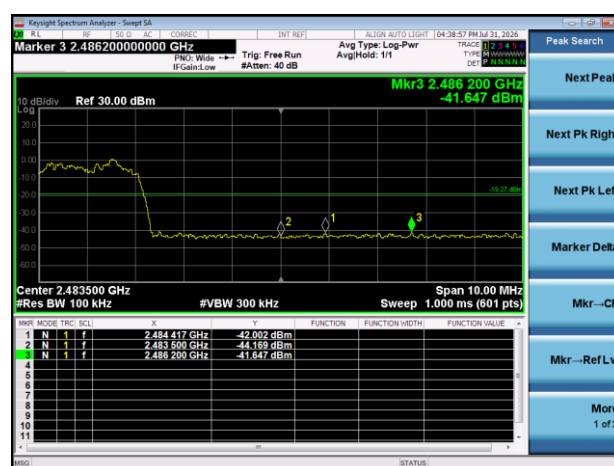
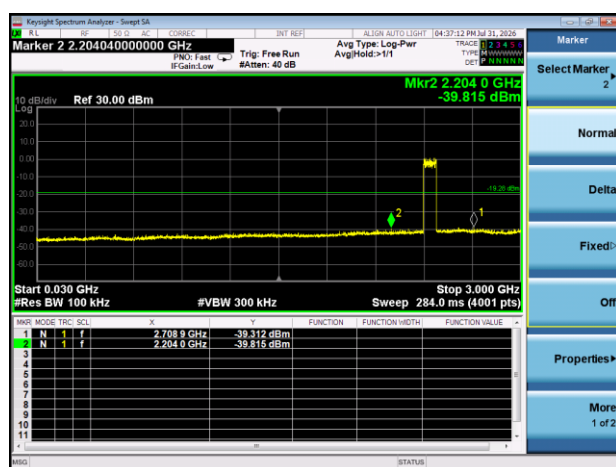
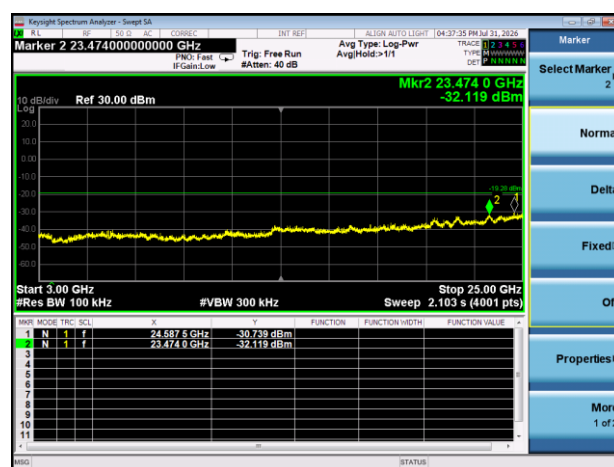
8-DPSK HOPPING, CARRIER LEVEL



8-DPSK Hopping BAND EDGE (LOW)



8-DPSK Hopping BAND EDGE (HIGH)

8-DPSK Hopping Mode, SPURIOUS
30 MHz ~ 3 GHz8-DPSK Hopping Mode, SPURIOUS
3GHz ~ 25 GHz

A.7 Conducted Emissions

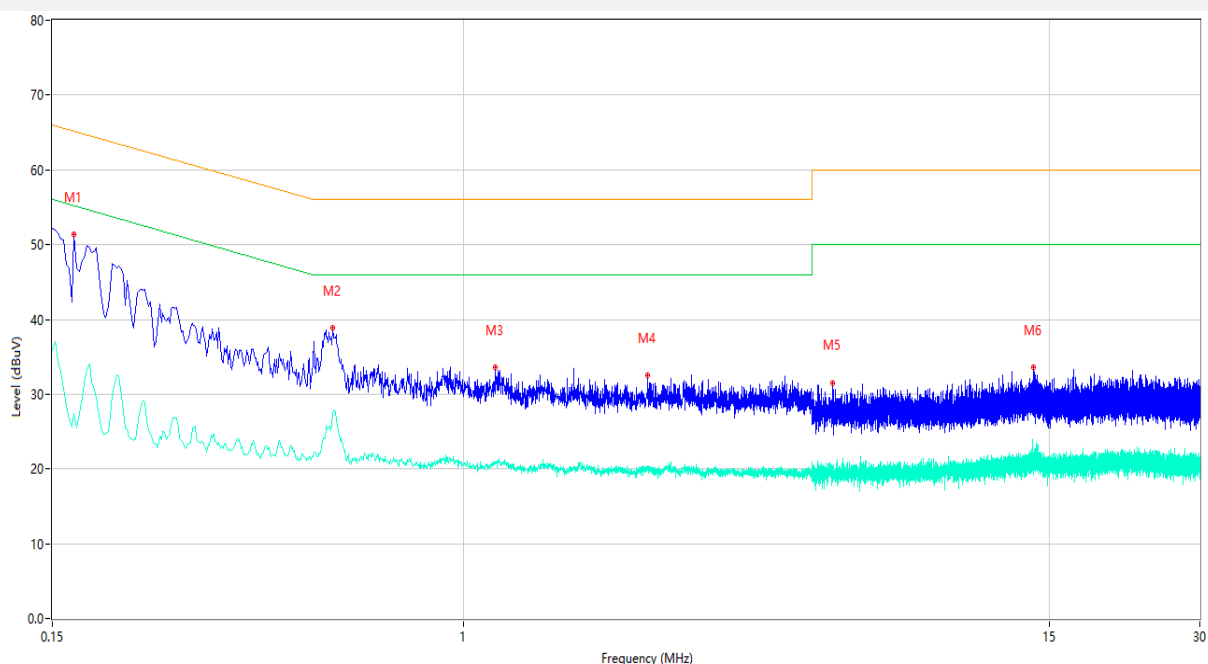
Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

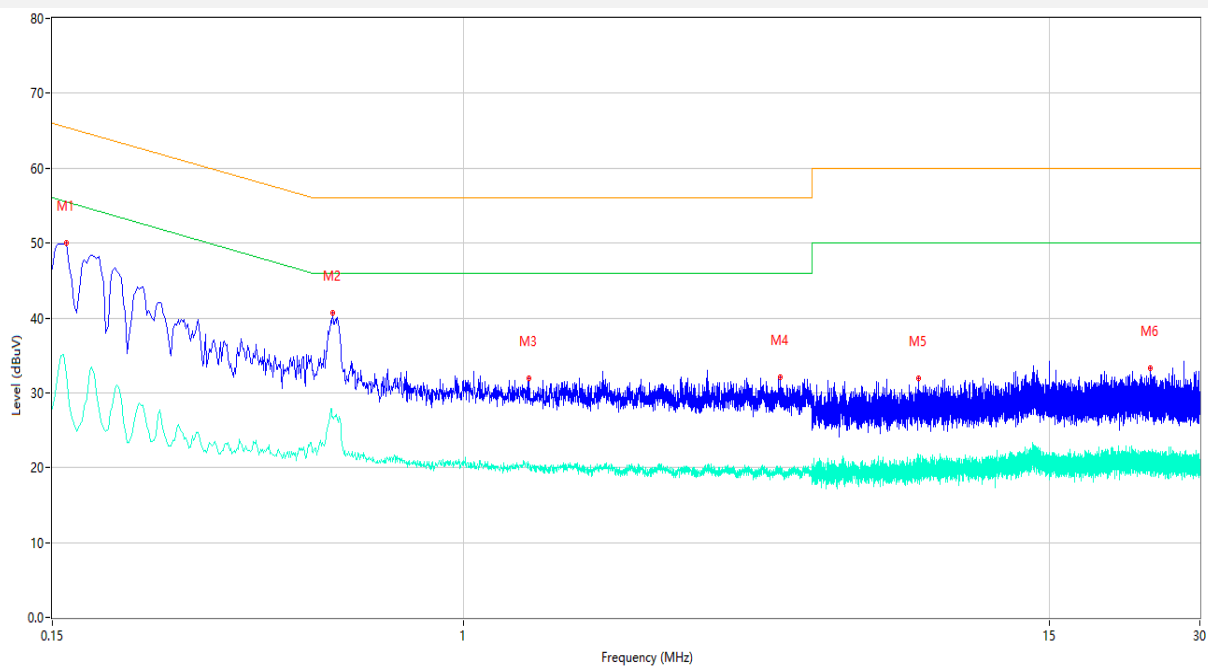
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.166	51.32	10.21	65.16	13.84	Peak	L	Pass
1**	0.166	27.48	10.21	55.16	27.68	AV	L	Pass
2	0.548	38.89	10.24	56.00	17.11	Peak	L	Pass
2**	0.548	27.20	10.24	46.00	18.80	AV	L	Pass
3	1.162	33.62	10.28	56.00	22.38	Peak	L	Pass
3**	1.162	20.87	10.28	46.00	25.13	AV	L	Pass
4	2.340	32.57	10.31	56.00	23.43	Peak	L	Pass
4**	2.340	19.94	10.31	46.00	26.06	AV	L	Pass
5	5.510	31.45	10.36	60.00	28.55	Peak	L	Pass
5**	5.510	20.06	10.36	50.00	29.94	AV	L	Pass
6	13.944	33.56	10.73	60.00	26.44	Peak	L	Pass
6**	13.944	22.13	10.73	50.00	27.87	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	49.97	10.21	65.46	15.49	Peak	N	Pass
1**	0.160	32.47	10.21	55.46	22.99	AV	N	Pass
2	0.548	40.70	10.13	56.00	15.30	Peak	N	Pass
2**	0.548	26.83	10.13	46.00	19.17	AV	N	Pass
3	1.352	31.92	10.15	56.00	24.08	Peak	N	Pass
3**	1.352	20.28	10.15	46.00	25.72	AV	N	Pass
4	4.318	32.04	10.18	56.00	23.96	Peak	N	Pass
4**	4.318	19.87	10.18	46.00	26.13	AV	N	Pass
5	8.170	31.88	10.27	60.00	28.12	Peak	N	Pass
5**	8.170	21.31	10.27	50.00	28.69	AV	N	Pass
6	23.818	33.34	10.86	60.00	26.66	Peak	N	Pass
6**	23.818	21.88	10.86	50.00	28.12	AV	N	Pass

A.8 Radiated Spurious Emission

Note ¹: The symbol of "--" in the table which means not application.

Note ²: For the test data above 1 GHz, according the ANSI C63.10, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ³: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and DH5-Hopping mode is the worst.

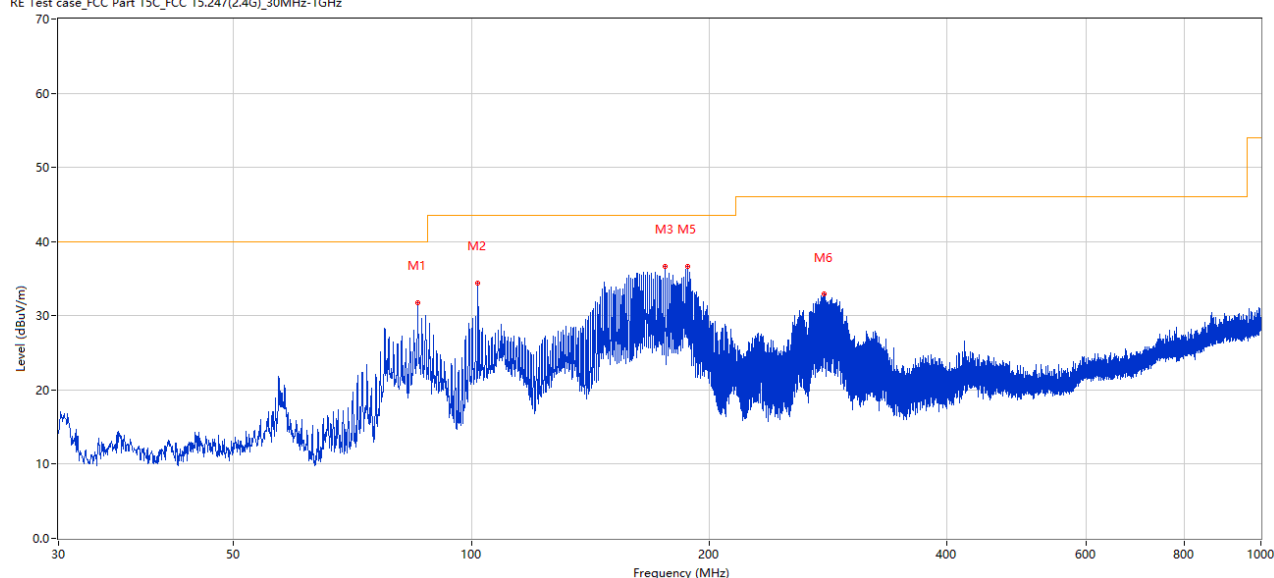
Note ⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Test Data and Plots

30 MHz to 1 GHz, ANT H

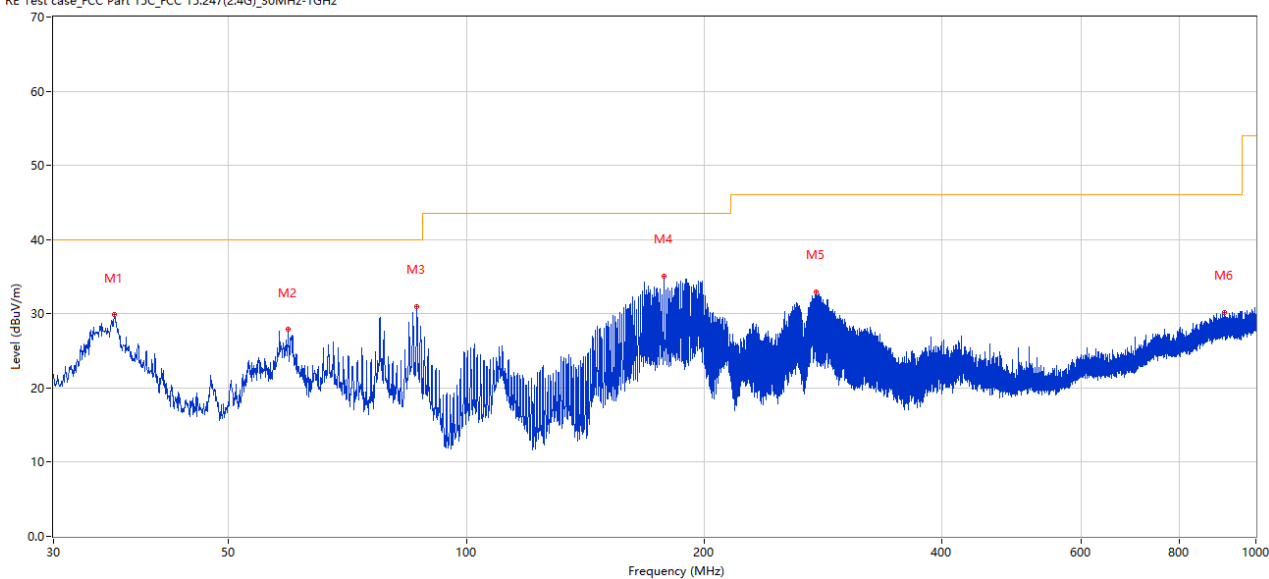
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	85.533	31.77	-29.57	40.0	8.23	Peak	36.00	200	Horizontal	Pass
2	101.974	34.45	-26.10	43.5	9.05	Peak	215.00	100	Horizontal	Pass
3	175.985	36.67	-28.19	43.5	6.83	Peak	269.00	100	Horizontal	Pass
4	169.632	25.29	-28.40	43.5	18.21	Peak	257.00	100	Horizontal	Pass
5	187.916	36.72	-26.72	43.5	6.78	Peak	276.00	100	Horizontal	Pass
6	280.066	32.90	-23.70	46.0	13.10	Peak	102.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



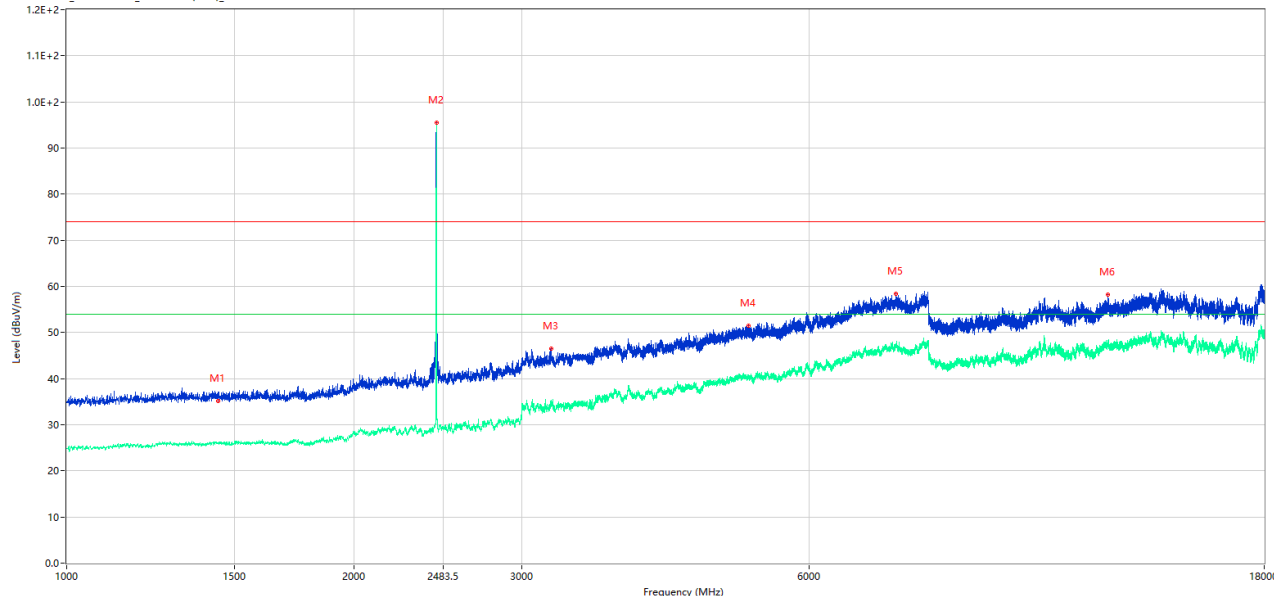
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.820	29.84	-27.46	40.0	10.16	Peak	265.00	100	Vertical	Pass
2	59.488	27.87	-25.91	40.0	12.13	Peak	100.00	100	Vertical	Pass
3	86.551	31.00	-29.19	40.0	9.00	Peak	360.00	100	Vertical	Pass
4	178.119	35.10	-27.99	43.5	8.40	Peak	345.00	200	Vertical	Pass
5	277.302	32.93	-23.90	46.0	13.07	Peak	0.00	200	Vertical	Pass
6	912.506	30.22	-9.22	46.0	15.78	Peak	349.00	100	Vertical	Pass

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious from 18GHz-25GHz is noise only, do not show on the report.

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

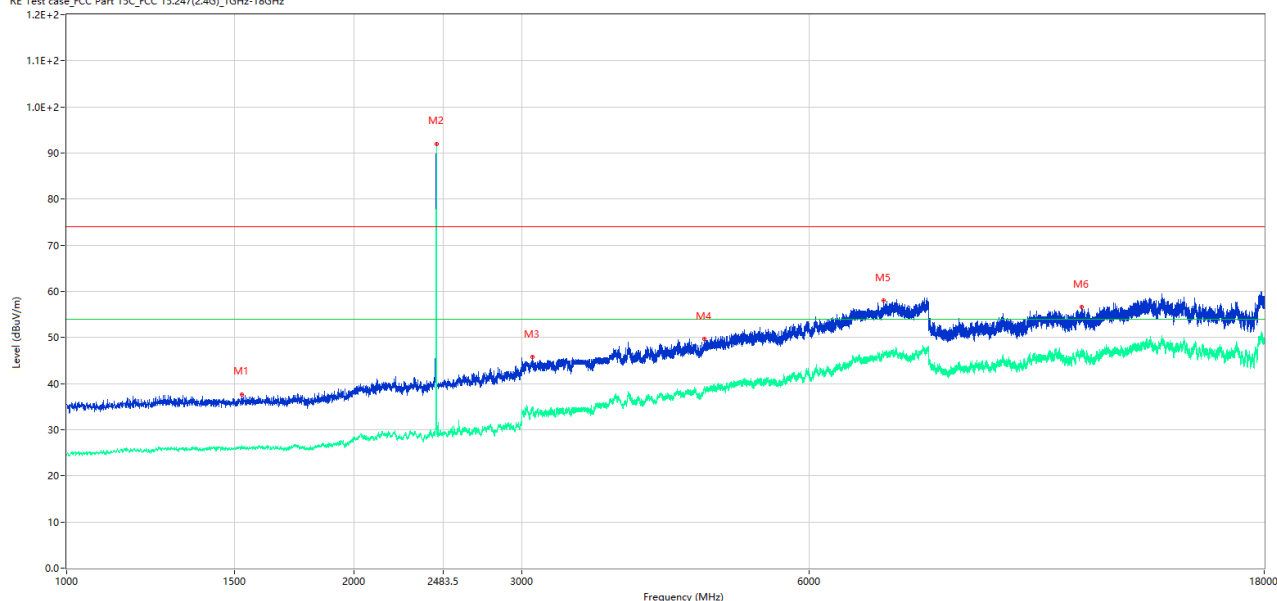
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.000	39.11	-17.39	74.0	34.89	Peak	1.00	150	Horizontal	Pass
1**	1442.000	27.11	-17.39	54.0	26.89	AV	1.00	150	Horizontal	Pass
2	2441.000	95.56	-13.03	74.0	-21.56	Peak	7.00	150	Horizontal	N/A
2**	2441.000	94.10	-13.03	54.0	-40.10	AV	7.00	150	Horizontal	N/A
3	3217.500	46.45	-6.73	74.0	27.55	Peak	348.00	150	Horizontal	Pass
3**	3217.500	35.24	-6.73	54.0	18.76	AV	348.00	150	Horizontal	Pass
4	5186.000	51.45	-0.23	74.0	22.55	Peak	2.00	150	Horizontal	Pass
4**	5186.000	40.80	-0.23	54.0	13.20	AV	2.00	150	Horizontal	Pass
5	7397.500	58.36	6.28	74.0	15.64	Peak	202.00	150	Horizontal	Pass
5**	7397.500	46.70	6.28	54.0	7.30	AV	202.00	150	Horizontal	Pass
6	12343.000	58.29	5.49	74.0	15.71	Peak	81.00	150	Horizontal	Pass
6**	12343.000	47.56	5.49	54.0	6.44	AV	81.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

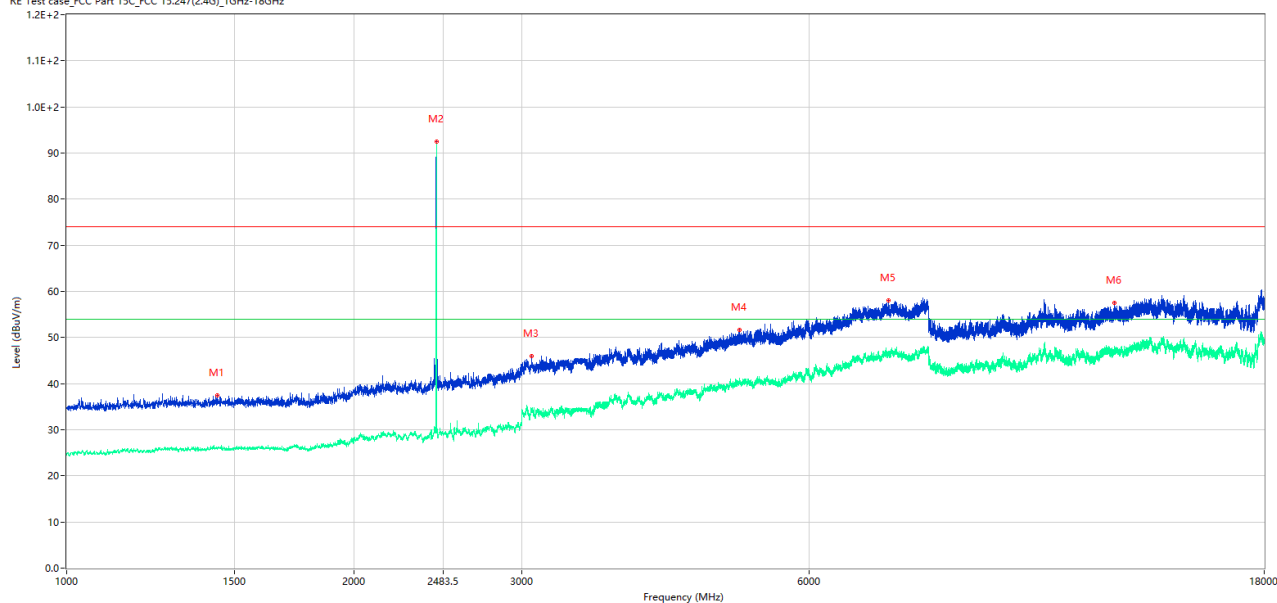
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1527.500	37.72	-17.53	74.0	36.28	Peak	199.00	150	Vertical	Pass
1**	1527.500	26.68	-17.53	54.0	27.32	AV	199.00	150	Vertical	Pass
2	2441.000	92.04	-13.03	74.0	-18.04	Peak	278.00	150	Vertical	N/A
2**	2441.000	90.55	-13.03	54.0	-36.55	AV	278.00	150	Vertical	N/A
3	3077.000	45.80	-6.79	74.0	28.20	Peak	95.00	150	Vertical	Pass
3**	3077.000	34.96	-6.79	54.0	19.04	AV	95.00	150	Vertical	Pass
4	4656.000	49.79	-2.06	74.0	24.21	Peak	34.00	150	Vertical	Pass
4**	4656.000	39.10	-2.06	54.0	14.90	AV	34.00	150	Vertical	Pass
5	7189.000	58.09	5.33	74.0	15.91	Peak	224.00	150	Vertical	Pass
5**	7189.000	46.17	5.33	54.0	7.83	AV	224.00	150	Vertical	Pass
6	11592.500	56.61	4.02	74.0	17.39	Peak	127.00	150	Vertical	Pass
6**	11592.500	46.45	4.02	54.0	7.55	AV	127.00	150	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

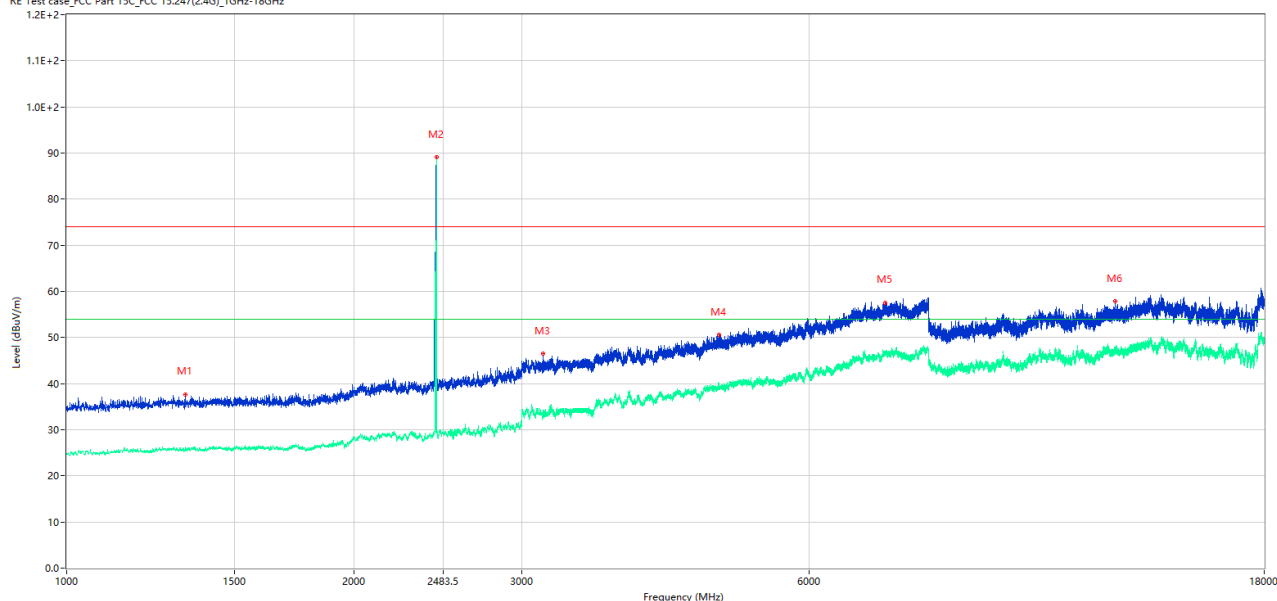
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.500	37.44	-17.37	74.0	36.56	Peak	5.00	150	Horizontal	Pass
1**	1438.500	25.66	-17.37	54.0	28.34	AV	5.00	150	Horizontal	Pass
2	2441.000	92.41	-13.03	74.0	-18.41	Peak	293.00	150	Horizontal	N/A
2**	2441.000	89.38	-13.03	54.0	-35.38	AV	293.00	150	Horizontal	N/A
3	3073.000	45.96	-6.93	74.0	28.04	Peak	355.00	150	Horizontal	Pass
3**	3073.000	34.49	-6.93	54.0	19.51	AV	355.00	150	Horizontal	Pass
4	5072.500	51.70	-0.36	74.0	22.30	Peak	204.00	150	Horizontal	Pass
4**	5072.500	40.66	-0.36	54.0	13.34	AV	204.00	150	Horizontal	Pass
5	7265.000	58.09	5.35	74.0	15.91	Peak	77.00	150	Horizontal	Pass
5**	7265.000	46.15	5.35	54.0	7.85	AV	77.00	150	Horizontal	Pass
6	12544.000	57.48	5.56	74.0	16.52	Peak	138.00	150	Horizontal	Pass
6**	12544.000	47.18	5.56	54.0	6.82	AV	138.00	150	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.000	37.70	-17.35	74.0	36.30	Peak	346.00	150	Vertical	Pass
1**	1332.000	25.75	-17.35	54.0	28.25	AV	346.00	150	Vertical	Pass
2	2441.000	89.14	-13.03	74.0	-15.14	Peak	293.00	150	Vertical	N/A
2**	2441.000	86.33	-13.03	54.0	-32.33	AV	293.00	150	Vertical	N/A
3	3160.500	46.43	-7.26	74.0	27.57	Peak	288.00	150	Vertical	Pass
3**	3160.500	33.06	-7.26	54.0	20.94	AV	288.00	150	Vertical	Pass
4	4830.500	50.67	-1.33	74.0	23.33	Peak	176.00	150	Vertical	Pass
4**	4830.500	40.04	-1.33	54.0	13.96	AV	176.00	150	Vertical	Pass
5	7211.000	57.49	5.96	74.0	16.51	Peak	159.00	150	Vertical	Pass
5**	7211.000	46.28	5.96	54.0	7.72	AV	159.00	150	Vertical	Pass
6	12561.000	57.94	5.55	74.0	16.06	Peak	35.00	150	Vertical	Pass
6**	12561.000	47.20	5.55	54.0	6.80	AV	35.00	150	Vertical	Pass

A.9 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

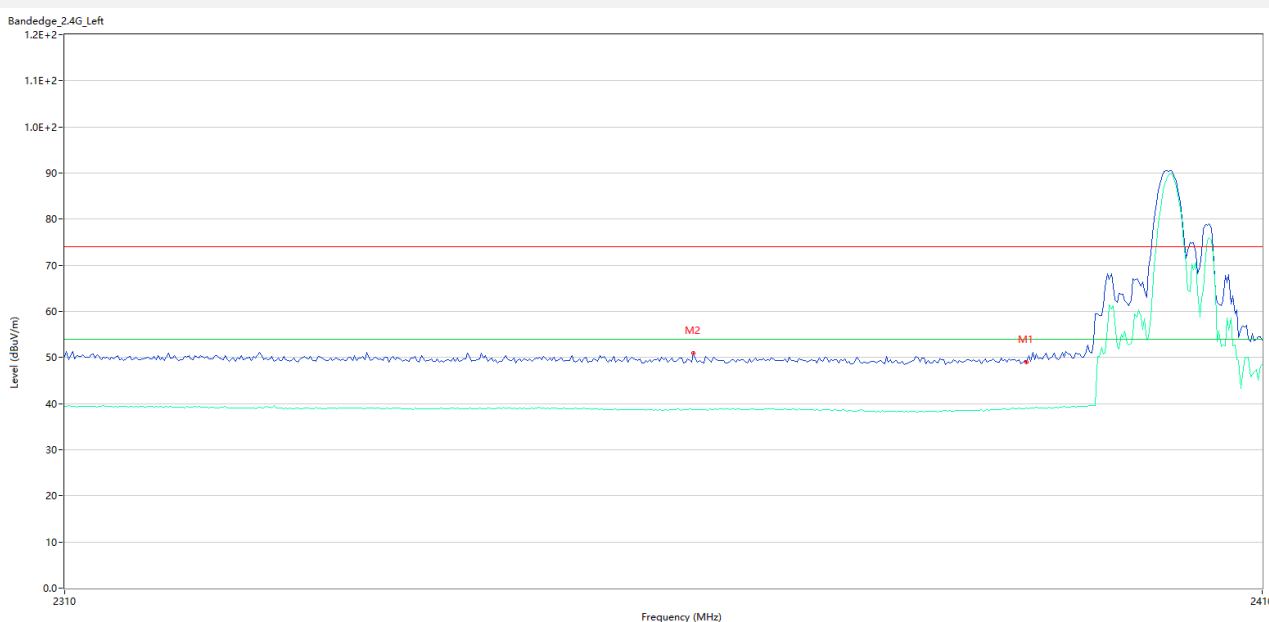
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold, so these plots have shown the worst case.

Note ³: According the ANSI C63.10, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: The Level (dBuV/m) has been corrected by factor.

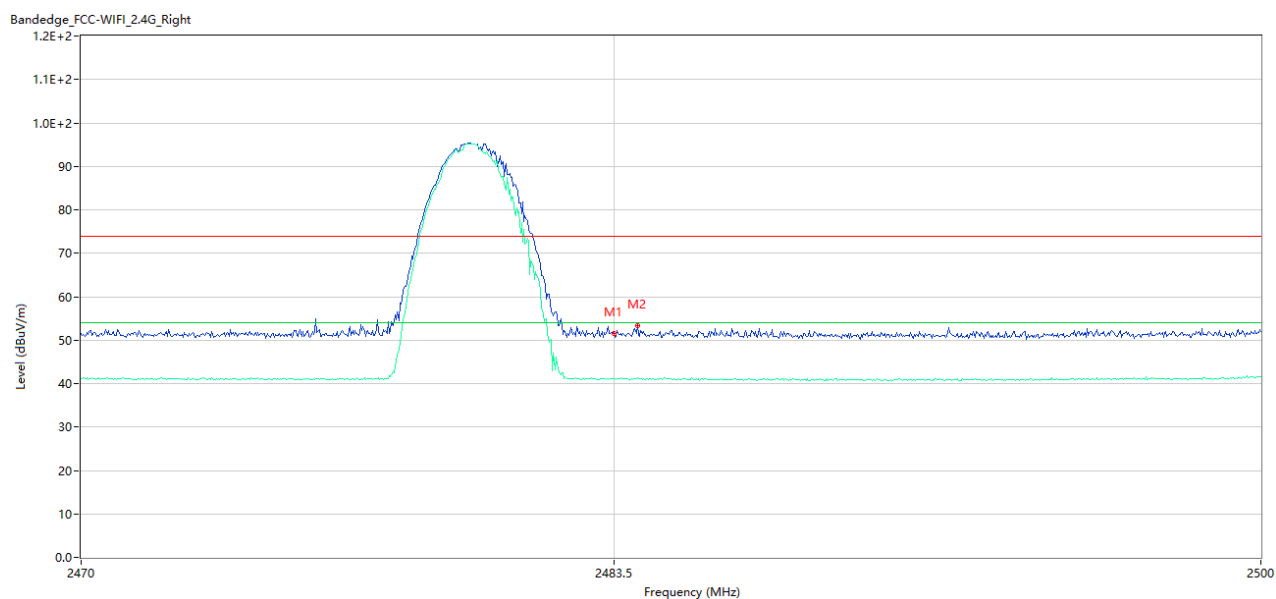
Test Data and Plots

GFSK LOW CHANNEL



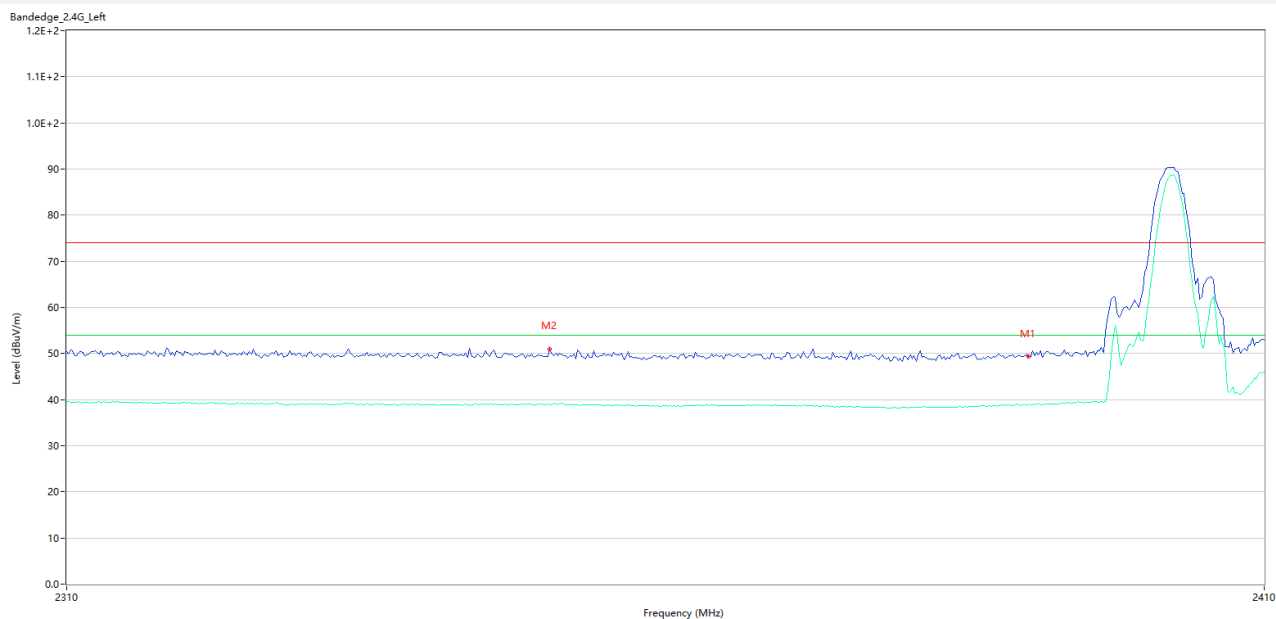
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	48.98	-3.58	74.0	25.02	Peak	125.04	150	Horizontal	Pass
1**	2390.000	39.10	-3.58	54.0	14.90	AV	125.04	150	Horizontal	Pass
2	2362.000	50.99	-4.03	74.0	23.01	Peak	59.00	150	Horizontal	Pass
2**	2362.000	38.78	-4.03	54.0	15.22	AV	59.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



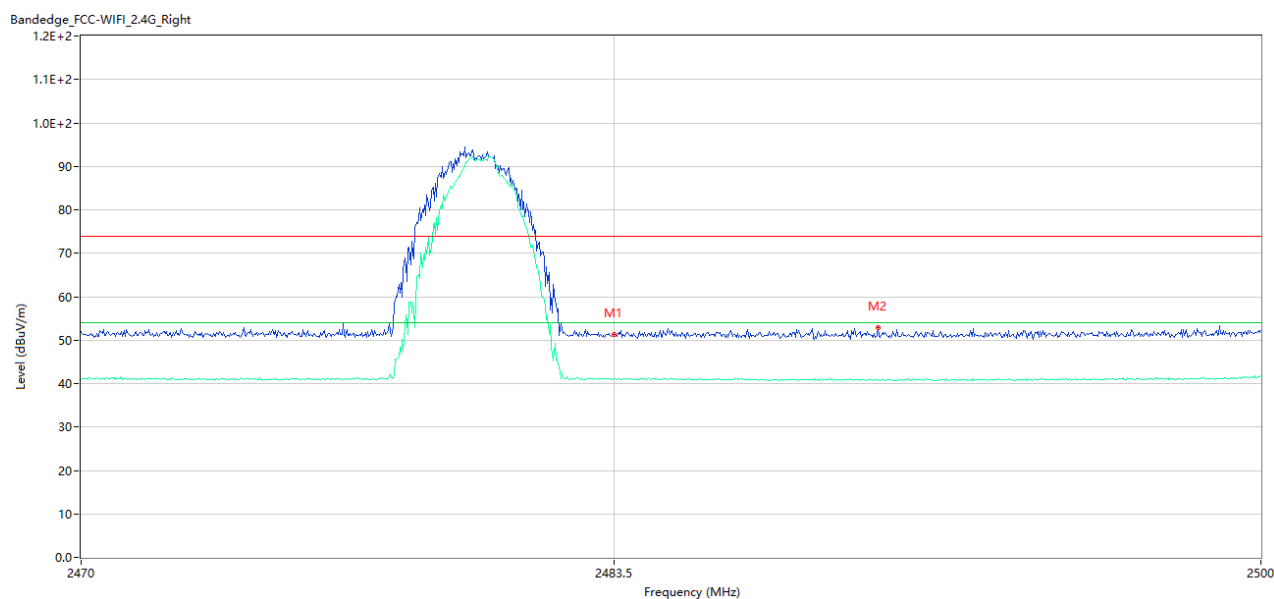
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	51.63	-3.78	74.0	22.37	Peak	99.00	150	Horizontal	Pass
1**	2483.500	41.23	-3.78	54.0	12.77	AV	99.00	150	Horizontal	Pass
2	2484.100	53.27	-3.78	74.0	20.73	Peak	38.00	150	Horizontal	Pass
2**	2484.100	41.30	-3.78	54.0	12.70	AV	38.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	49.33	-3.58	74.0	24.67	Peak	331.85	150	Vertical	Pass
1**	2390.000	39.00	-3.58	54.0	15.00	AV	331.85	150	Vertical	Pass
2	2349.833	50.93	-3.84	74.0	23.07	Peak	96.00	150	Vertical	Pass
2**	2349.833	38.91	-3.84	54.0	15.09	AV	96.00	150	Vertical	Pass

8-DPSK HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	51.36	-3.78	74.0	22.64	Peak	325.00	150	Horizontal	Pass
1**	2483.500	41.09	-3.78	54.0	12.91	AV	325.00	150	Horizontal	Pass
2	2490.220	52.82	-3.83	74.0	21.18	Peak	255.00	150	Horizontal	Pass
2**	2490.220	40.83	-3.83	54.0	13.17	AV	255.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-CC26060546-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26060546-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-CC26060546-AI.PDF”.

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--END OF REPORT--