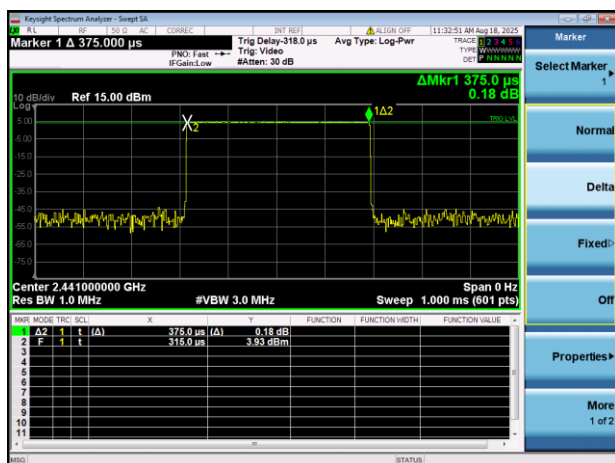
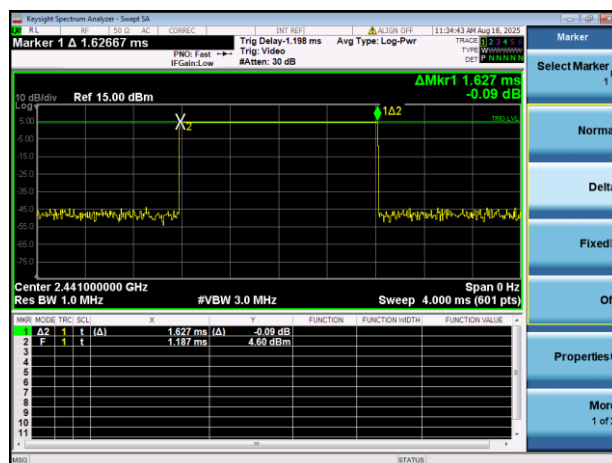


Test Plots

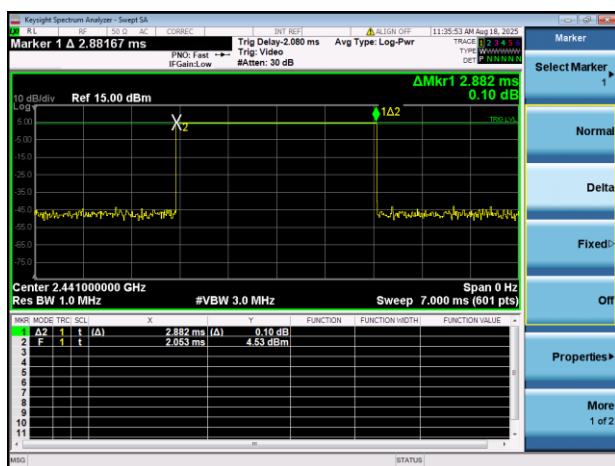
GFSK DH1



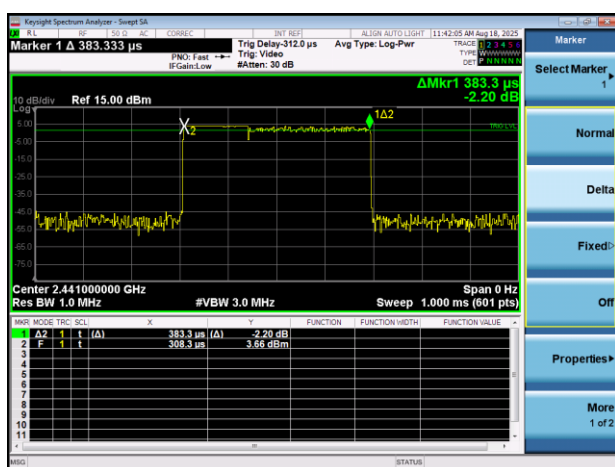
GFSK DH3



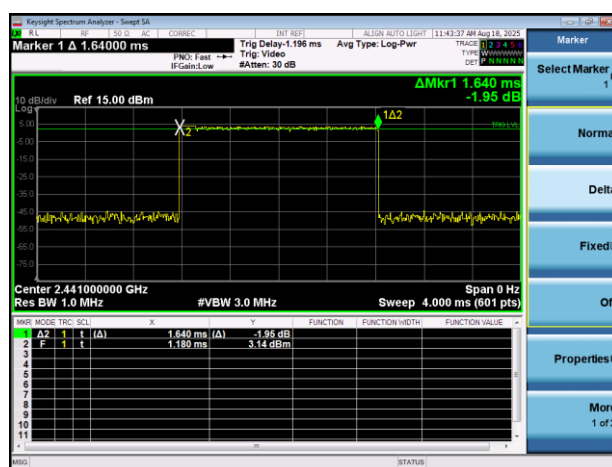
GFSK DH5



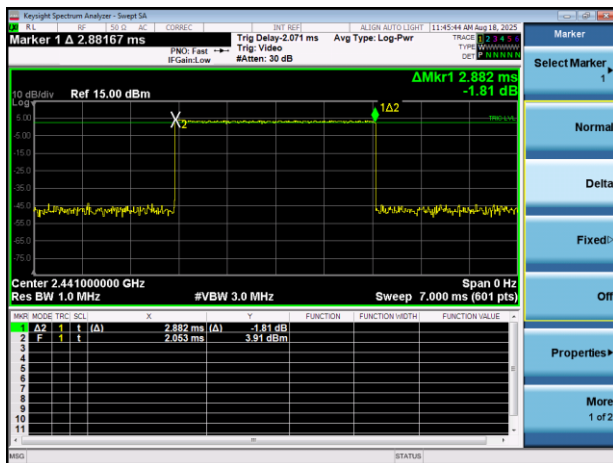
8-DPSK DH1



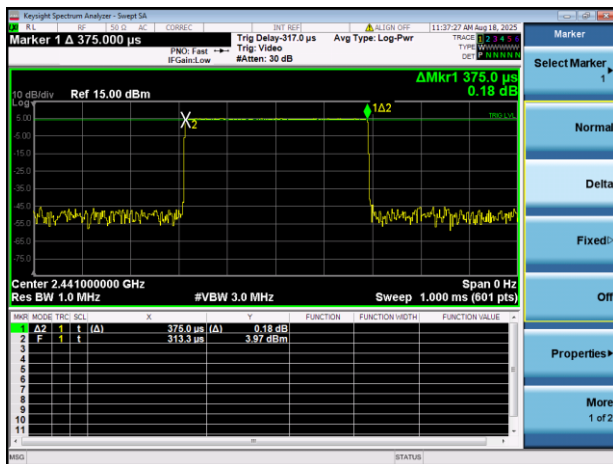
8-DPSK DH3



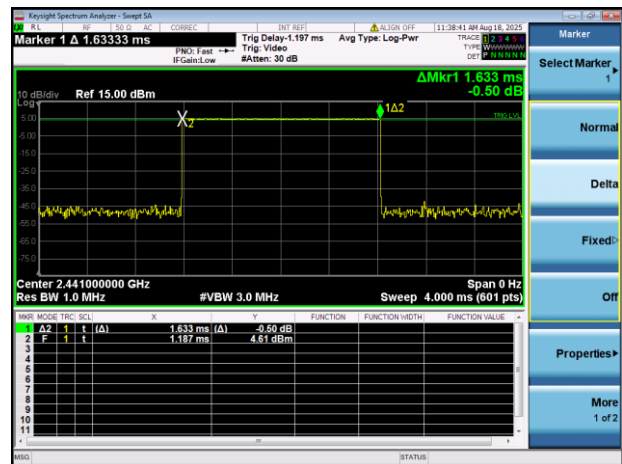
8-DPSK DH5



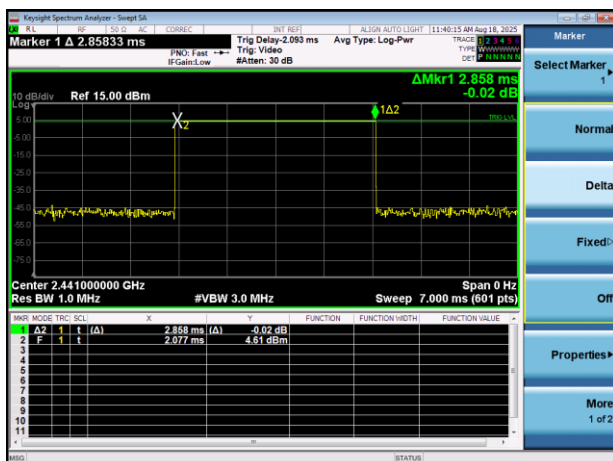
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



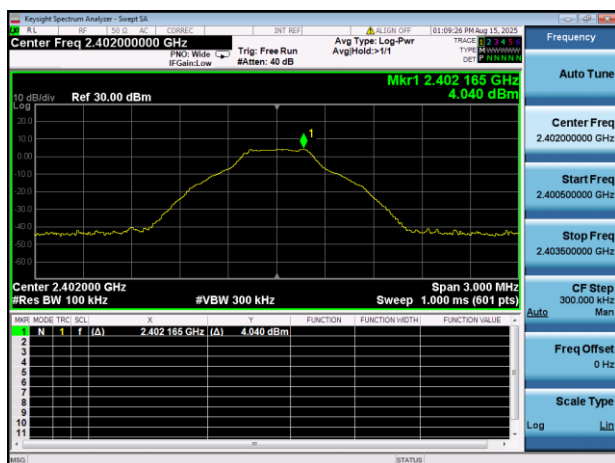
A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

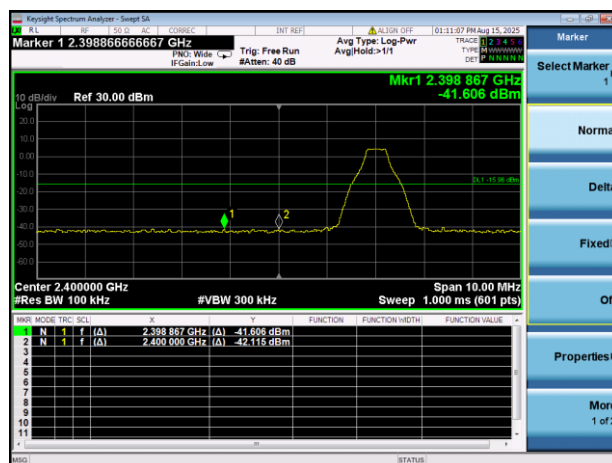
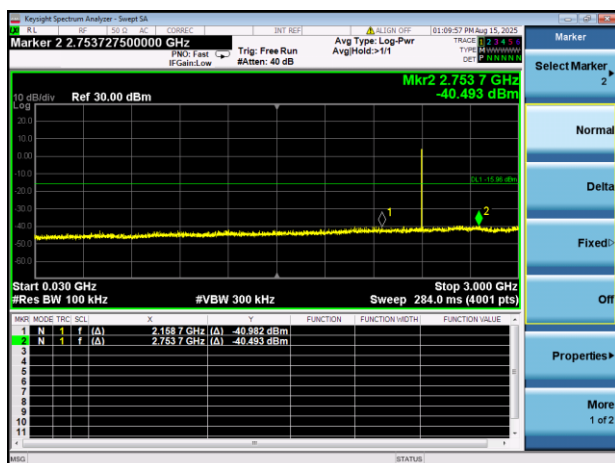
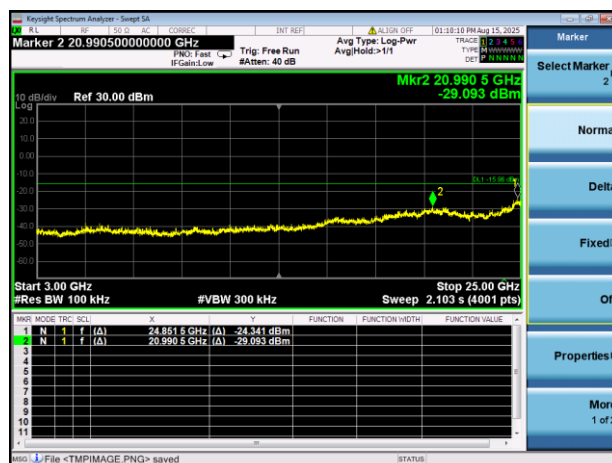
GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.34	4.04	-15.96	Pass
Middle	-25.40	4.06	-15.94	Pass
High	-24.99	3.83	-16.17	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.99	3.40	-16.60	Pass
Middle	-25.21	3.49	-16.51	Pass
High	-25.08	3.35	-16.65	
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-31.91	4.38	-15.62	Pass
8-DPSK	-30.78	3.51	-16.49	Pass

Test Plots

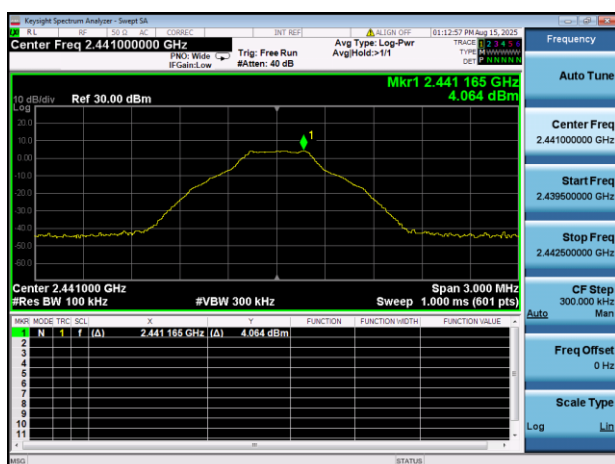
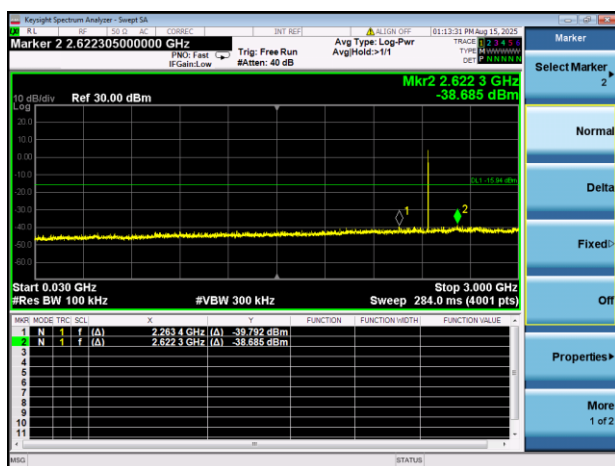
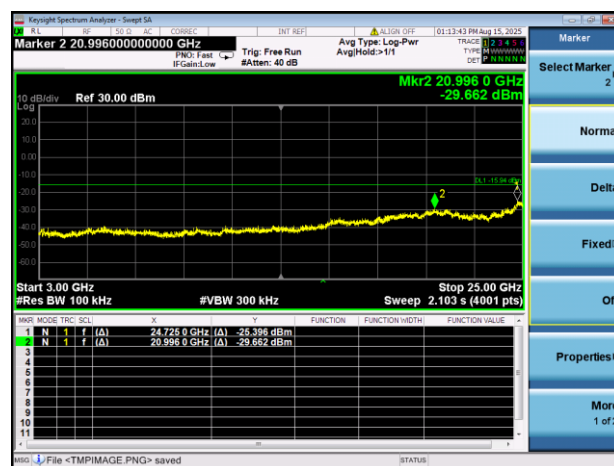
GFSK LOW CHANNEL, CARRIER LEVEL



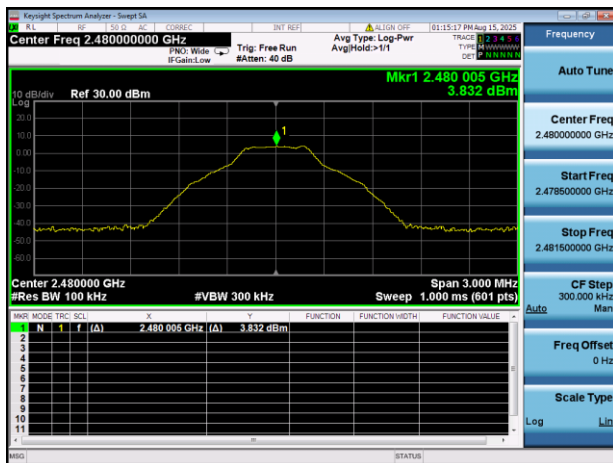
GFSK LOW CHANNEL, BAND EDGE

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

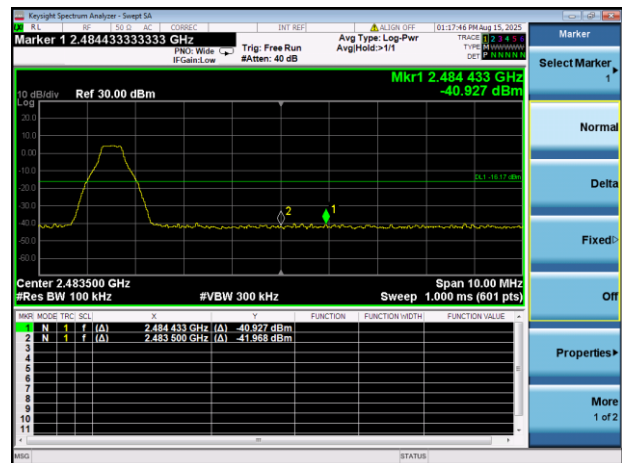
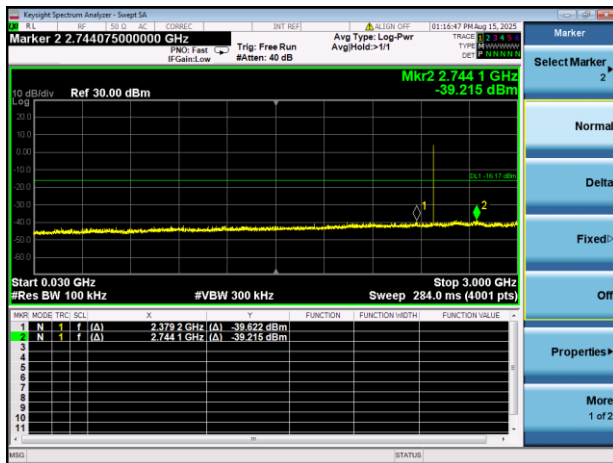
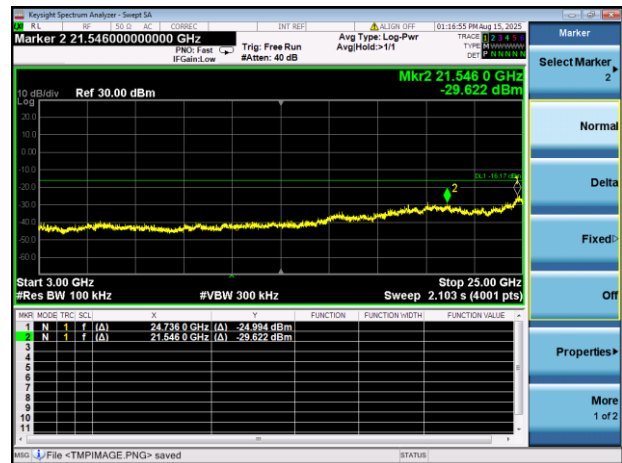
GFSK MIDDLE CHANNEL, CARRIER LEVEL

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

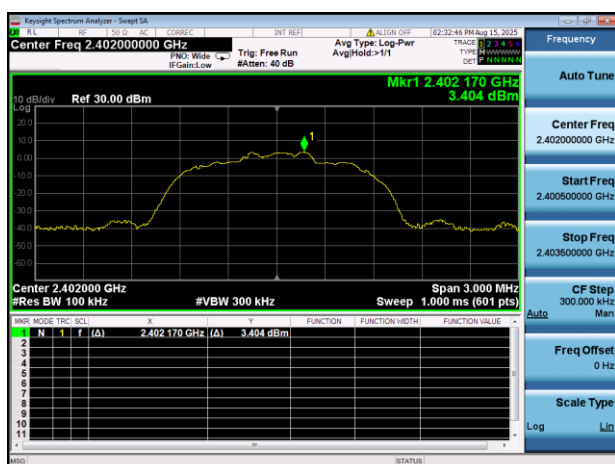
GFSK HIGH CHANNEL, CARRIER LEVEL



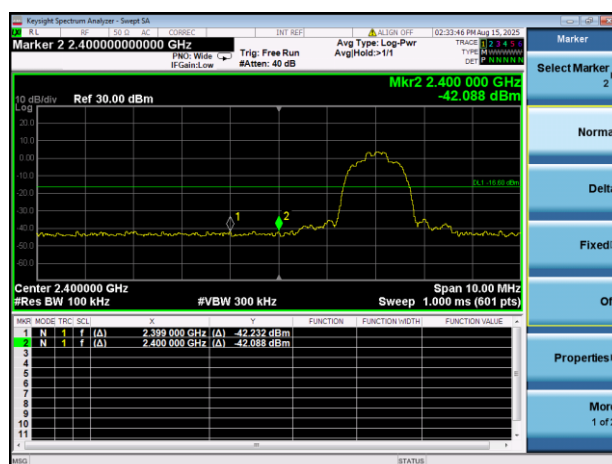
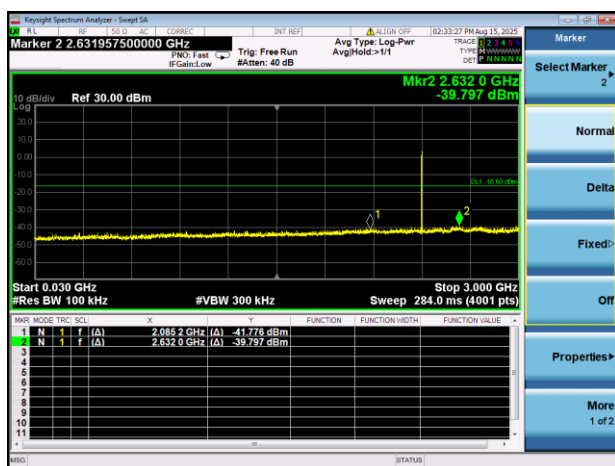
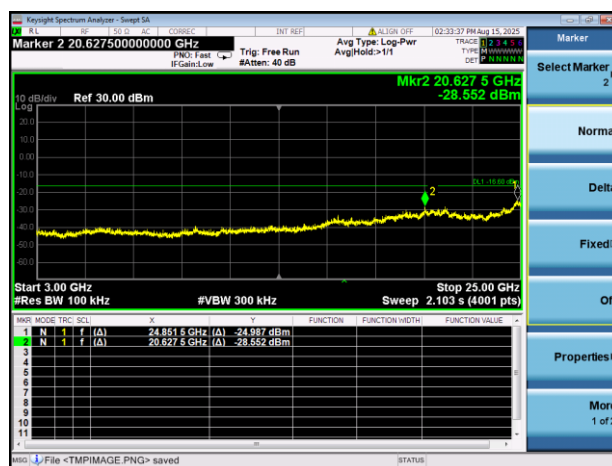
GFSK HIGH CHANNEL, BAND EDGE

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

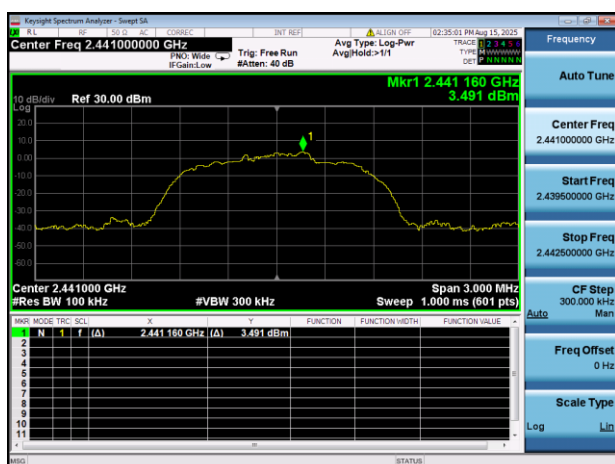
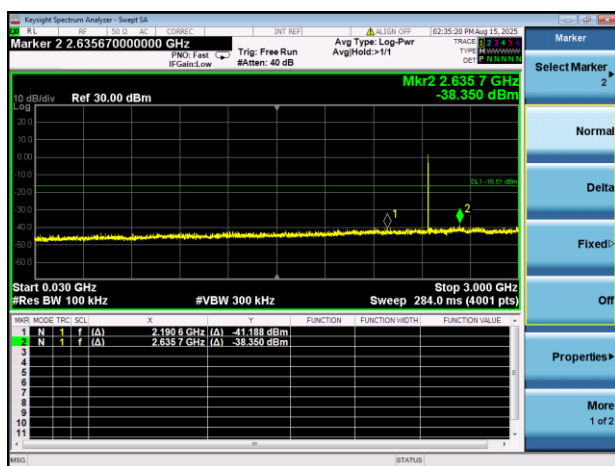
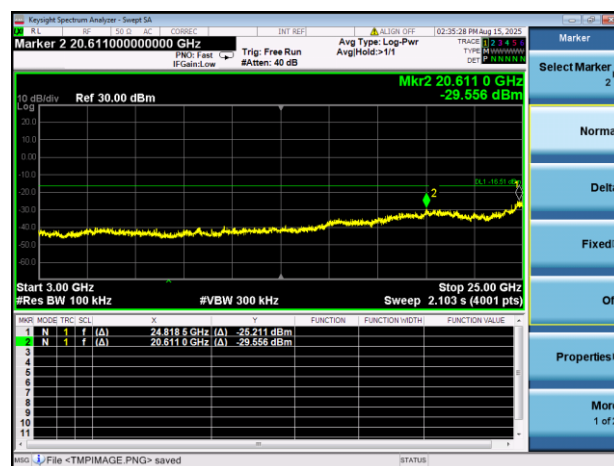
8-DPSK LOW CHANNEL, CARRIER LEVEL



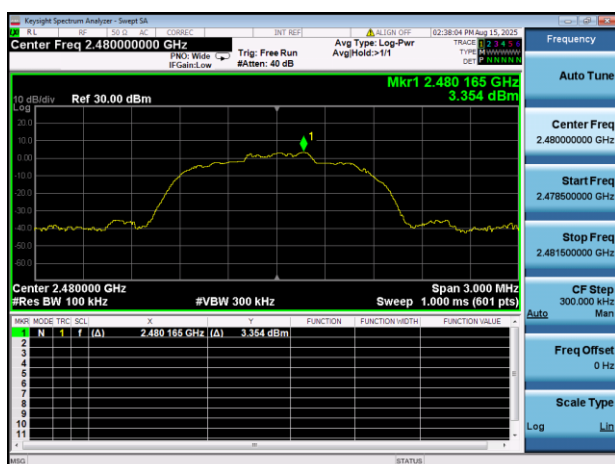
8-DPSK LOW CHANNEL, BAND EDGE

8-DPSK LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz8-DPSK LOW CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

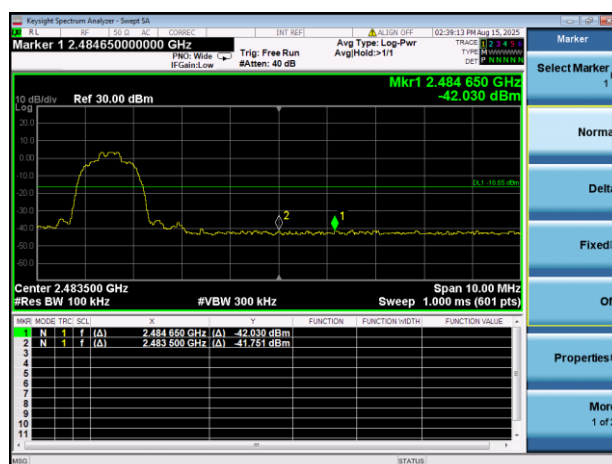
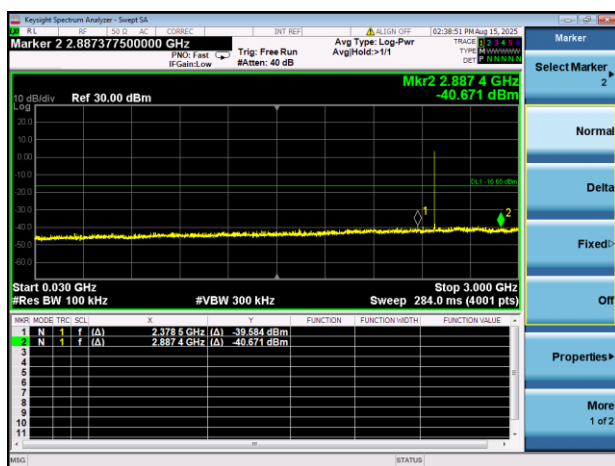
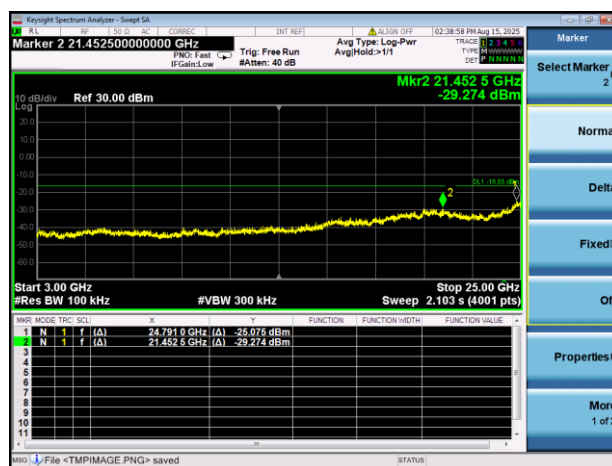
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL

8-DPSK MIDDLE CHANNEL, SPURIOUS
30 MHz ~ 3 GHz8-DPSK MIDDLE CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

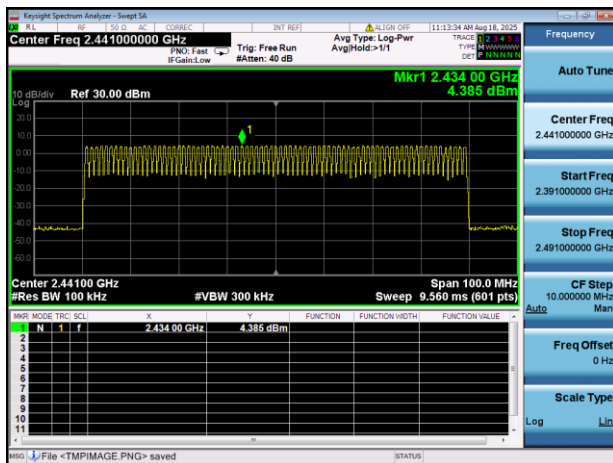
8-DPSK HIGH CHANNEL, CARRIER LEVEL



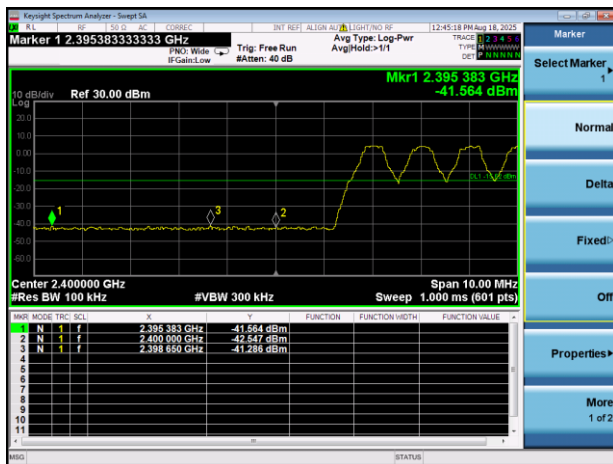
8-DPSK HIGH CHANNEL, BAND EDGE

8-DPSK HIGH CHANNEL, SPURIOUS
30 MHz ~ 3 GHz8-DPSK HIGH CHANNEL, SPURIOUS
3 GHz ~ 25 GHz

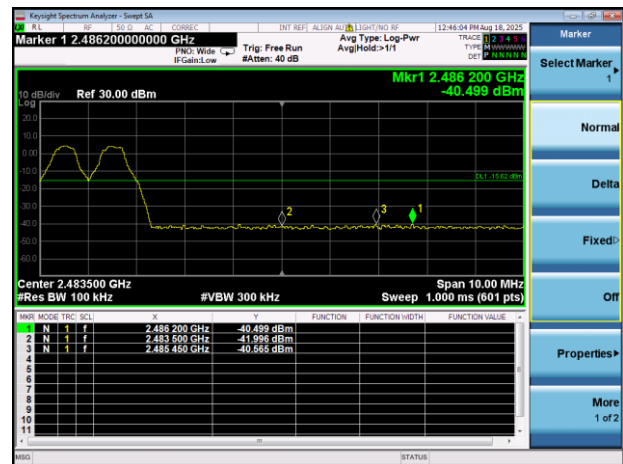
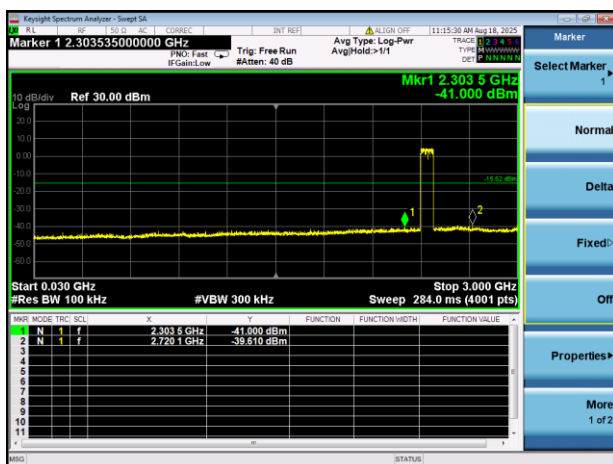
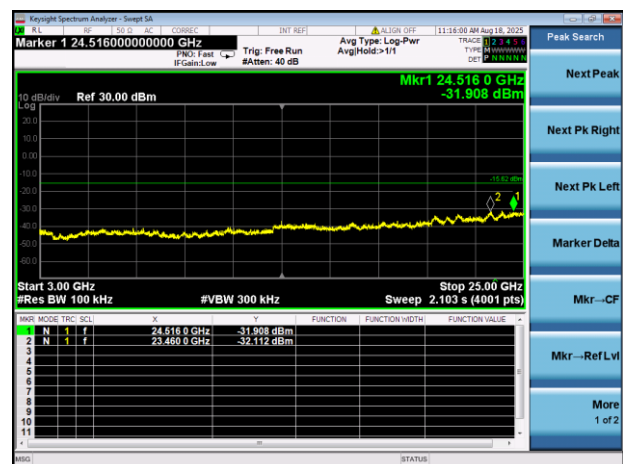
GFSK HOPPING, CARRIER LEVEL



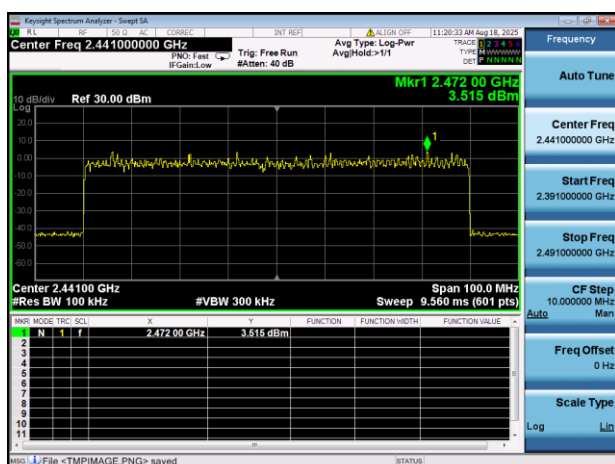
GFSK HOPPING BAND EDGE (LOW)



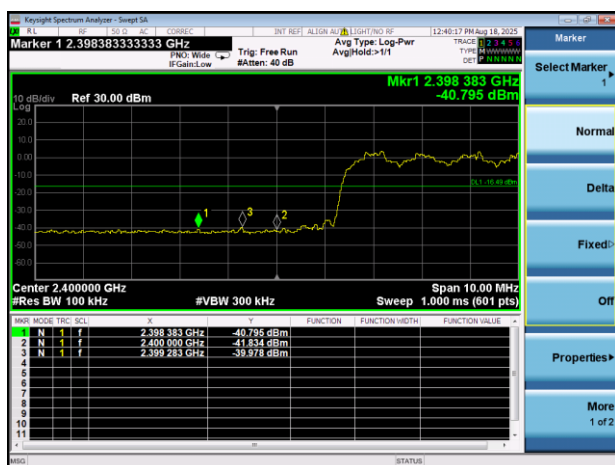
GFSK HOPPING BAND EDGE (HIGH)

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

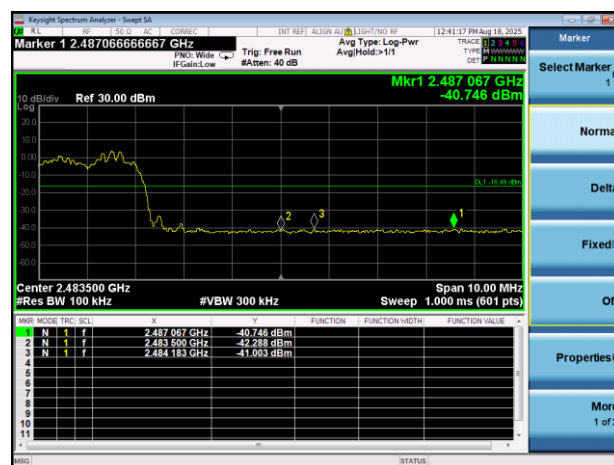
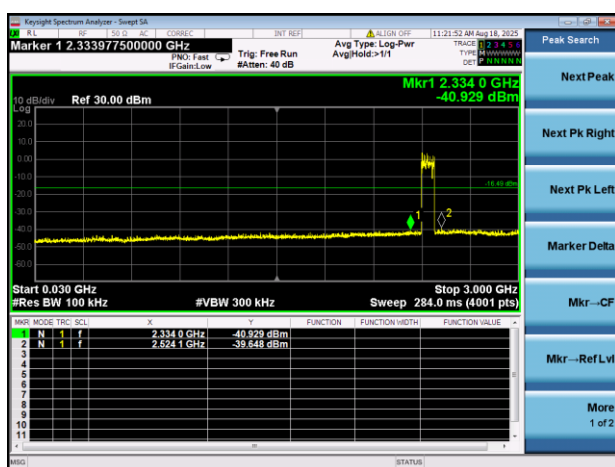
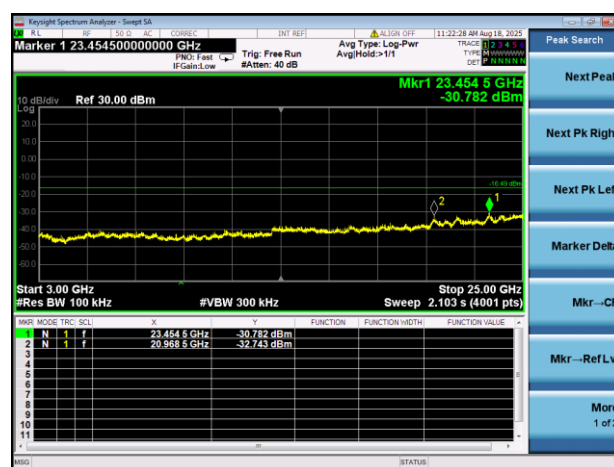
8-DPSK HOPPING, CARRIER LEVEL



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 Emission

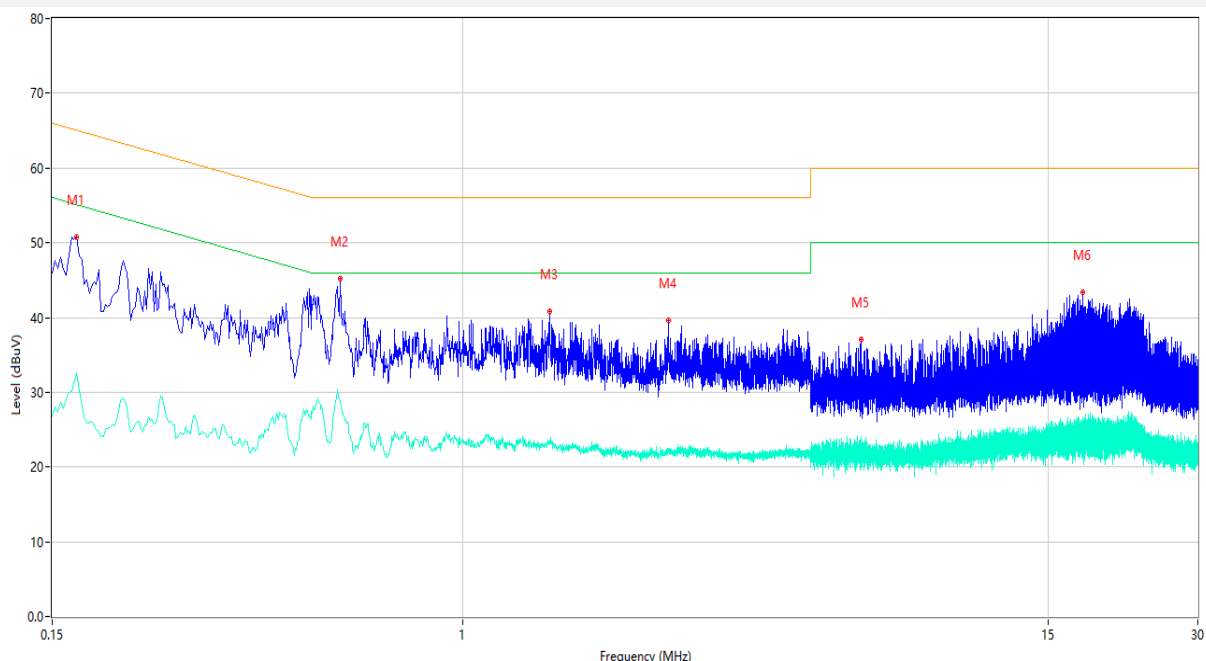
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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)

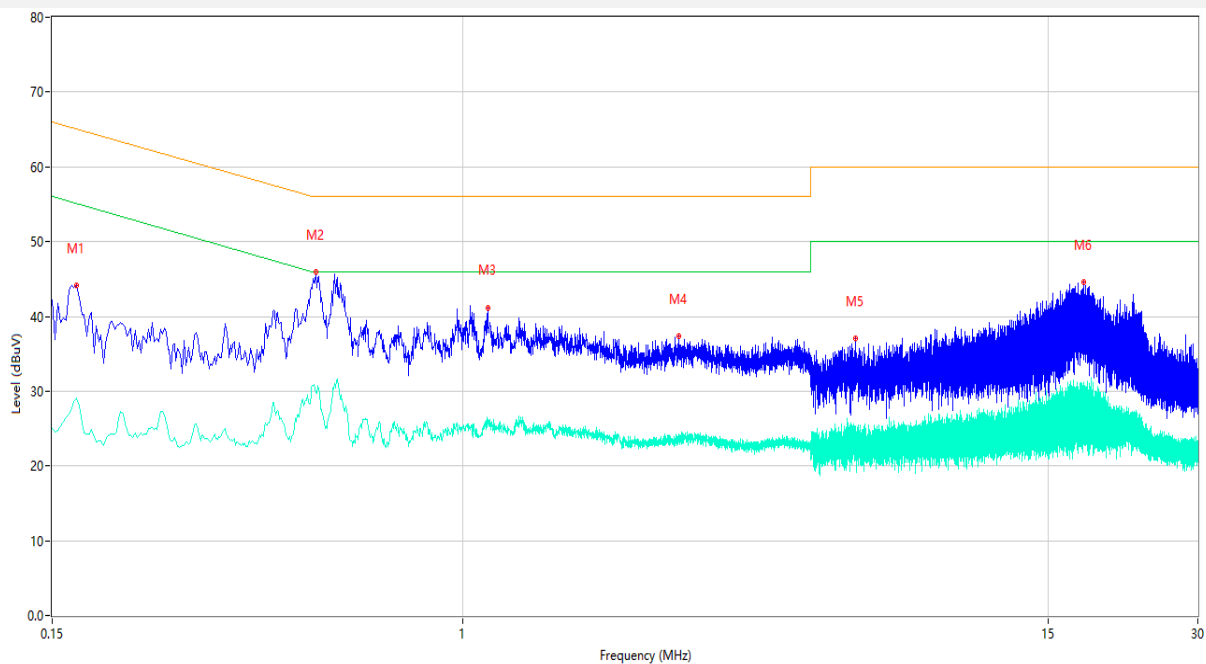
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	50.79	10.08	65.06	14.27	Peak	L	Pass
1**	0.168	32.54	10.08	55.06	22.52	AV	L	Pass
2	0.568	45.24	10.18	56.00	10.76	Peak	L	Pass
2**	0.568	28.72	10.18	46.00	17.28	AV	L	Pass
3	1.498	40.86	10.27	56.00	15.14	Peak	L	Pass
3**	1.498	23.18	10.27	46.00	22.82	AV	L	Pass
4	2.594	39.59	10.37	56.00	16.41	Peak	L	Pass
4**	2.594	22.24	10.37	46.00	23.76	AV	L	Pass
5	6.324	37.03	10.62	60.00	22.97	Peak	L	Pass
5**	6.324	24.12	10.62	50.00	25.88	AV	L	Pass
6	17.596	43.33	11.19	60.00	16.67	Peak	L	Pass
6**	17.596	24.52	11.19	50.00	25.48	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	44.16	10.15	65.06	20.90	Peak	N	Pass
1**	0.168	29.03	10.15	55.06	26.03	AV	N	Pass
2	0.508	45.90	10.17	56.00	10.10	Peak	N	Pass
2**	0.508	29.80	10.17	46.00	16.20	AV	N	Pass
3	1.126	41.20	10.25	56.00	14.80	Peak	N	Pass
3**	1.126	26.01	10.25	46.00	19.99	AV	N	Pass
4	2.716	37.36	10.29	56.00	18.64	Peak	N	Pass
4**	2.716	24.25	10.29	46.00	21.75	AV	N	Pass
5	6.172	37.10	10.54	60.00	22.90	Peak	N	Pass
5**	6.172	25.32	10.54	50.00	24.68	AV	N	Pass
6	17.692	44.54	11.27	60.00	15.46	Peak	N	Pass
6**	17.692	30.16	11.27	50.00	19.84	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 C63.10-2020, 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.

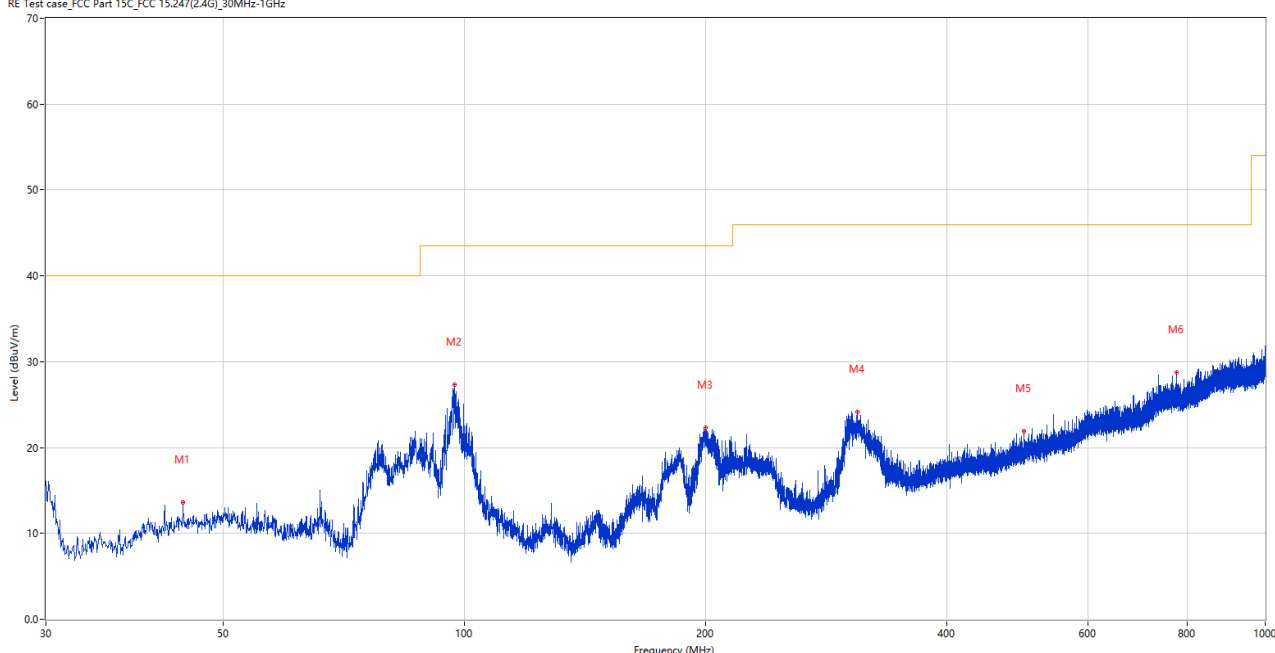
Note 4: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Note 5: 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

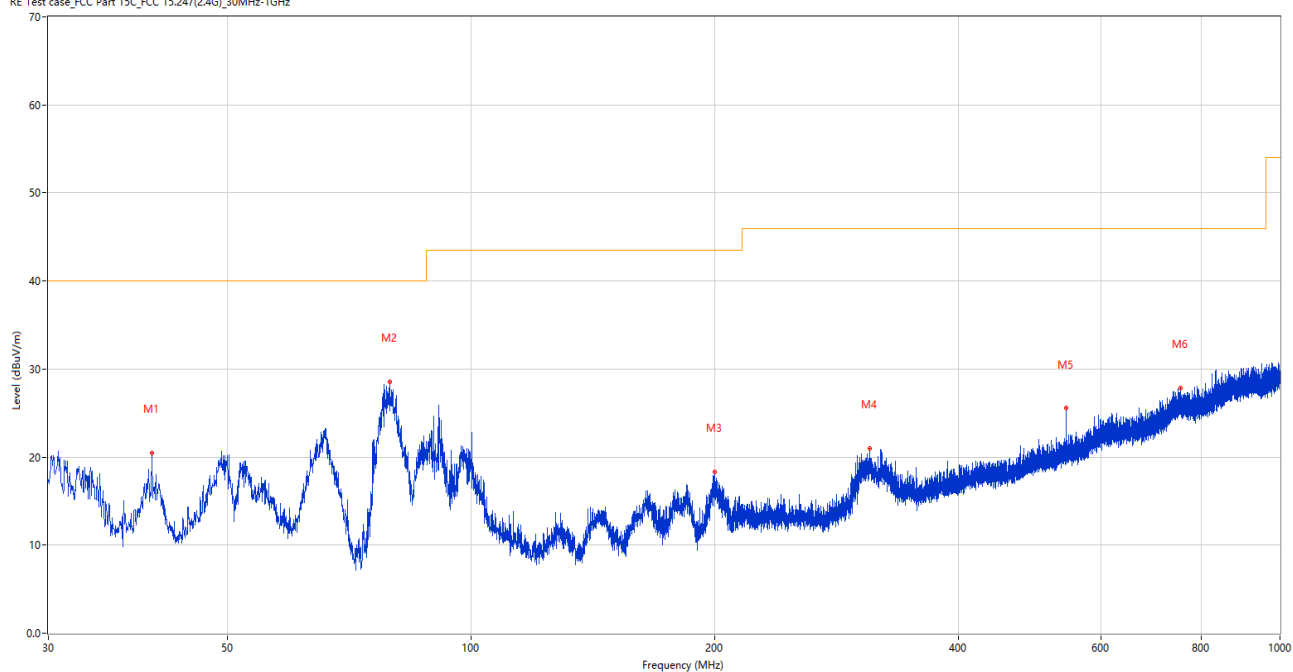
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.502	13.62	-24.82	40.0	26.38	Peak	238.00	200	Horizontal	Pass
2	97.076	27.37	-26.35	43.5	16.13	Peak	10.00	200	Horizontal	Pass
3	200.089	22.36	-25.75	43.5	21.14	Peak	229.00	100	Horizontal	Pass
4	309.166	24.12	-23.19	46.0	21.88	Peak	90.00	100	Horizontal	Pass
5	499.965	21.95	-18.07	46.0	24.05	Peak	102.00	100	Horizontal	Pass
6	774.281	28.76	-11.97	46.0	17.24	Peak	247.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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

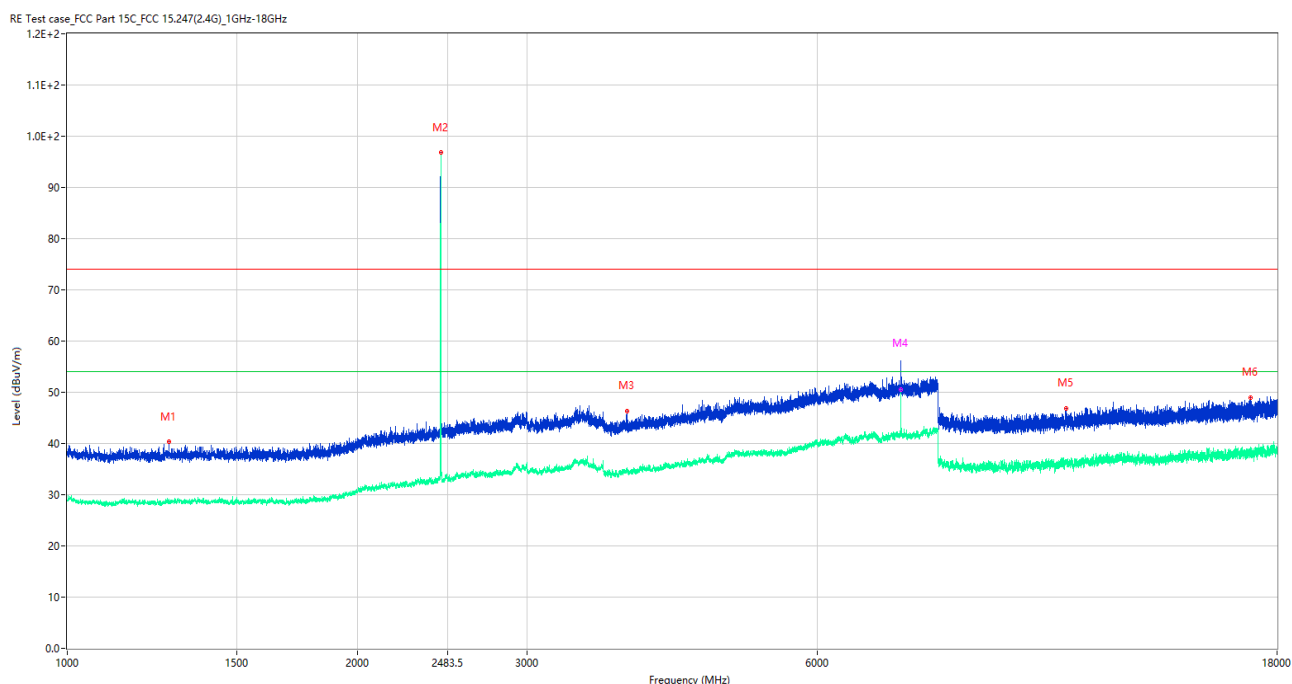


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	40.331	20.45	-25.81	40.0	19.55	Peak	229.00	100	Vertical	Pass
2	79.228	28.59	-30.96	40.0	11.41	Peak	1.00	100	Vertical	Pass
3	199.895	18.36	-25.75	43.5	25.14	Peak	351.00	200	Vertical	Pass
4	310.766	20.97	-23.16	46.0	25.03	Peak	260.00	200	Vertical	Pass
5	544.439	25.54	-16.99	46.0	20.46	Peak	41.00	200	Vertical	Pass
6	752.650	27.85	-11.99	46.0	18.15	Peak	5.00	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.

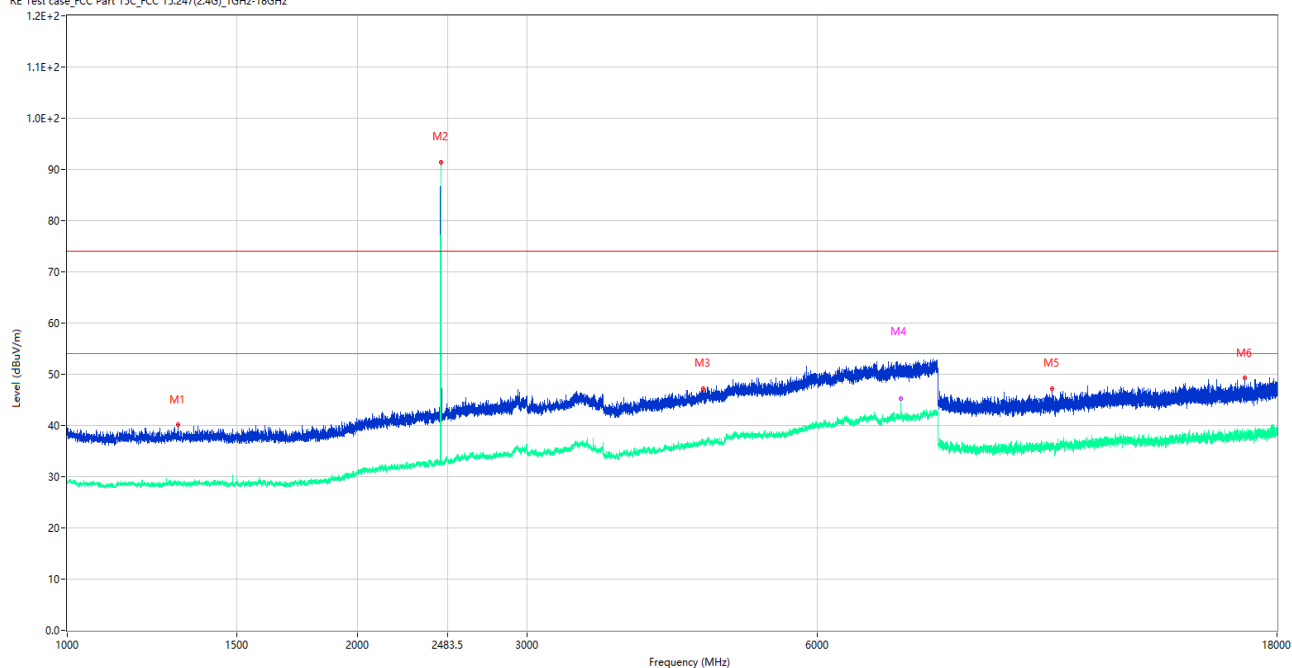
GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1275.000	40.28	-15.82	74.0	33.72	Peak	265.00	150	Horizontal	Pass
1**	1275.000	28.70	-15.82	54.0	25.30	AV	265.00	150	Horizontal	Pass
2	2441.000	96.80	-12.39	74.0	-22.80	Peak	21.00	150	Horizontal	N/A
2**	2441.000	95.74	-12.39	54.0	-41.74	AV	21.00	150	Horizontal	N/A
3	3807.000	46.39	-4.34	74.0	27.61	Peak	359.00	150	Horizontal	Pass
3**	3807.000	35.35	-4.34	54.0	18.65	AV	359.00	150	Horizontal	Pass
4	7323.500	54.33	0.70	74.0	19.67	Peak	196.00	150	Horizontal	Pass
4**	7323.500	50.45	0.70	54.0	3.55	AV	196.00	150	Horizontal	Pass
5	10874.000	46.85	-3.29	74.0	27.15	Peak	1.00	150	Horizontal	Pass
5**	10874.000	35.94	-3.29	54.0	18.06	AV	1.00	150	Horizontal	Pass
6	16892.000	48.87	-0.43	74.0	25.13	Peak	121.00	150	Horizontal	Pass
6**	16892.000	39.08	-0.43	54.0	14.92	AV	121.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

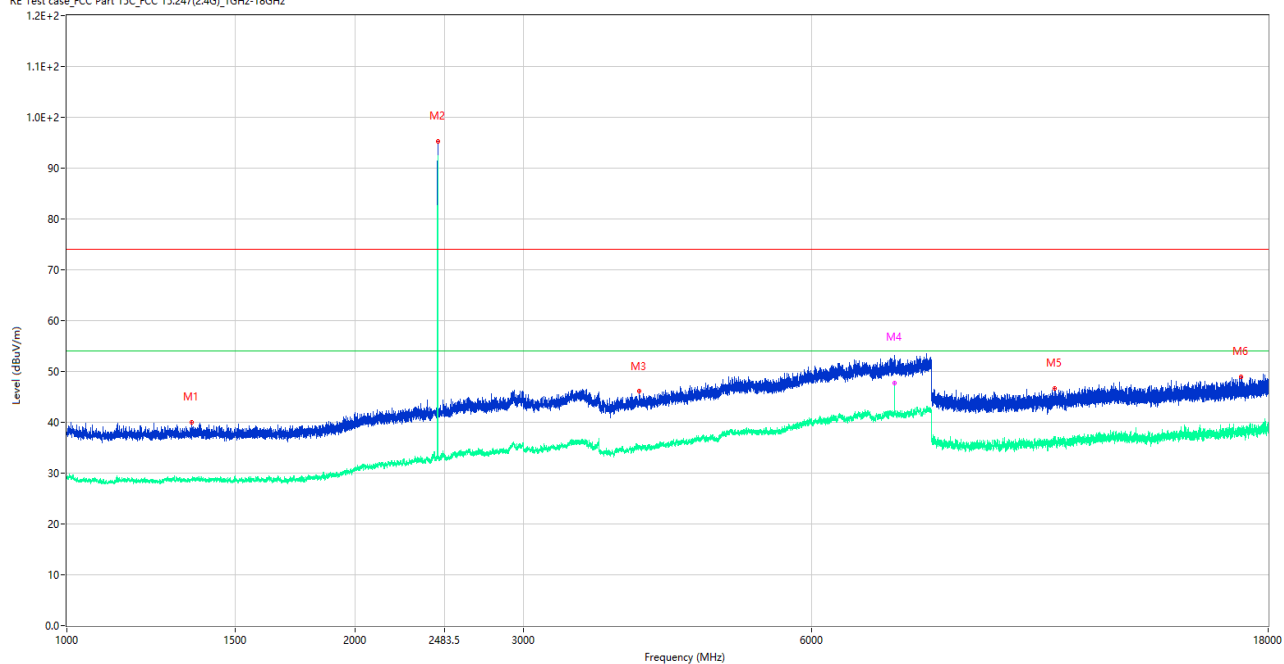
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1303.500	40.12	-15.59	74.0	33.88	Peak	4.00	150	Vertical	Pass
1**	1303.500	28.83	-15.59	54.0	25.17	AV	4.00	150	Vertical	Pass
2	2441.000	91.44	-12.39	74.0	-17.44	Peak	90.00	150	Vertical	N/A
2**	2441.000	90.71	-12.39	54.0	-36.71	AV	90.00	150	Vertical	N/A
3	4571.500	47.26	-3.27	74.0	26.74	Peak	360.00	150	Vertical	Pass
3**	4571.500	36.60	-3.27	54.0	17.40	AV	360.00	150	Vertical	Pass
4	7323.500	51.48	0.70	74.0	22.52	Peak	83.00	150	Vertical	Pass
4**	7323.500	45.27	0.70	54.0	8.73	AV	83.00	150	Vertical	Pass
5	10508.000	47.20	-3.34	74.0	26.80	Peak	300.00	150	Vertical	Pass
5**	10508.000	36.54	-3.34	54.0	17.46	AV	300.00	150	Vertical	Pass
6	16651.000	49.24	-1.52	74.0	24.76	Peak	360.00	150	Vertical	Pass
6**	16651.000	37.99	-1.52	54.0	16.01	AV	360.00	150	Vertical	Pass

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

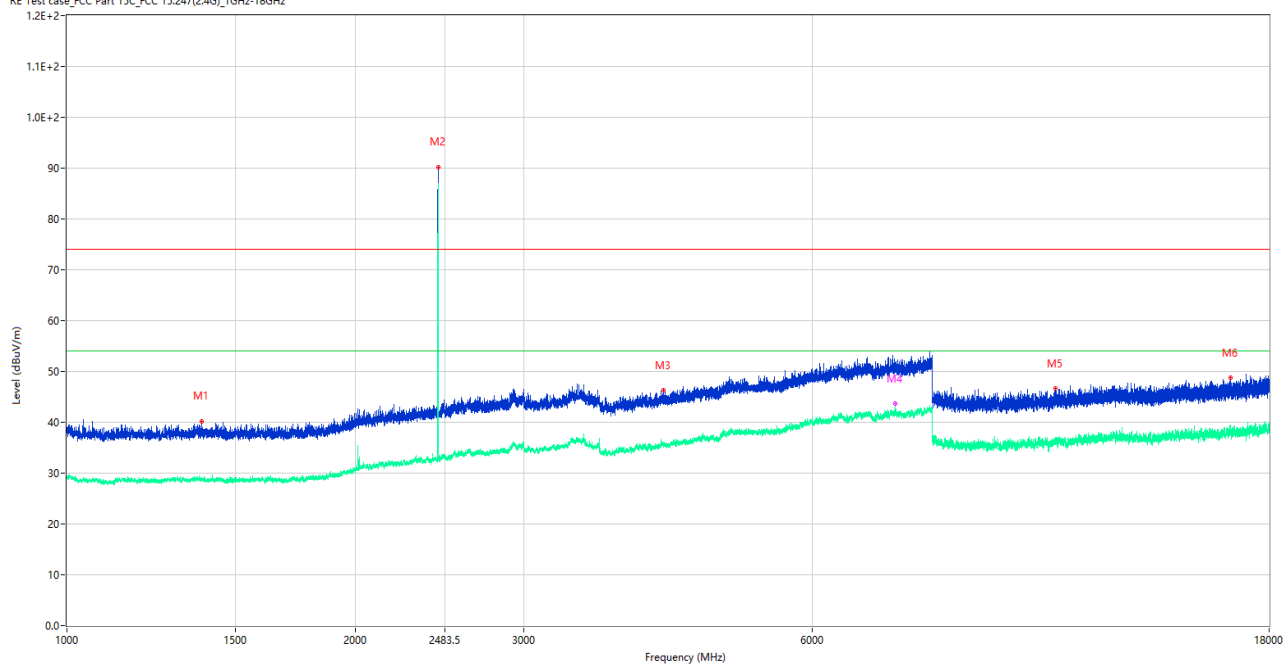
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1351.000	40.09	-15.92	74.0	33.91	Peak	0.00	150	Horizontal	Pass
1**	1351.000	28.90	-15.92	54.0	25.10	AV	0.00	150	Horizontal	Pass
2	2441.000	95.30	-12.39	74.0	-21.30	Peak	234.00	150	Horizontal	N/A
2**	2441.000	92.30	-12.39	54.0	-38.30	AV	234.00	150	Horizontal	N/A
3	3961.000	46.09	-3.97	74.0	27.91	Peak	68.00	150	Horizontal	Pass
3**	3961.000	35.13	-3.97	54.0	18.87	AV	68.00	150	Horizontal	Pass
4	7323.500	52.26	0.70	74.0	21.74	Peak	193.00	150	Horizontal	Pass
4**	7323.500	47.69	0.70	54.0	6.31	AV	193.00	150	Horizontal	Pass
5	10775.000	46.69	-2.97	74.0	27.31	Peak	349.00	150	Horizontal	Pass
5**	10775.000	36.39	-2.97	54.0	17.61	AV	349.00	150	Horizontal	Pass
6	16850.500	49.01	-1.16	74.0	24.99	Peak	152.00	150	Horizontal	Pass
6**	16850.500	38.49	-1.16	54.0	15.51	AV	152.00	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	1382.500	40.25	-15.98	74.0	33.75	Peak	320.00	150	Vertical	Pass
1**	1382.500	28.76	-15.98	54.0	25.24	AV	320.00	150	Vertical	Pass
2	2441.000	90.18	-12.39	74.0	-16.18	Peak	92.00	150	Vertical	N/A
2**	2441.000	86.58	-12.39	54.0	-32.58	AV	92.00	150	Vertical	N/A
3	4194.500	46.40	-3.58	74.0	27.60	Peak	51.00	150	Vertical	Pass
3**	4194.500	36.04	-3.58	54.0	17.96	AV	51.00	150	Vertical	Pass
4	7323.500	51.34	0.70	74.0	22.66	Peak	12.00	150	Vertical	Pass
4**	7323.500	43.66	0.70	54.0	10.34	AV	12.00	150	Vertical	Pass
5	10763.000	46.61	-3.59	74.0	27.39	Peak	0.00	150	Vertical	Pass
5**	10763.000	35.72	-3.59	54.0	18.28	AV	0.00	150	Vertical	Pass
6	16398.000	48.70	-1.35	74.0	25.30	Peak	294.00	150	Vertical	Pass
6**	16398.000	38.29	-1.35	54.0	15.71	AV	294.00	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.

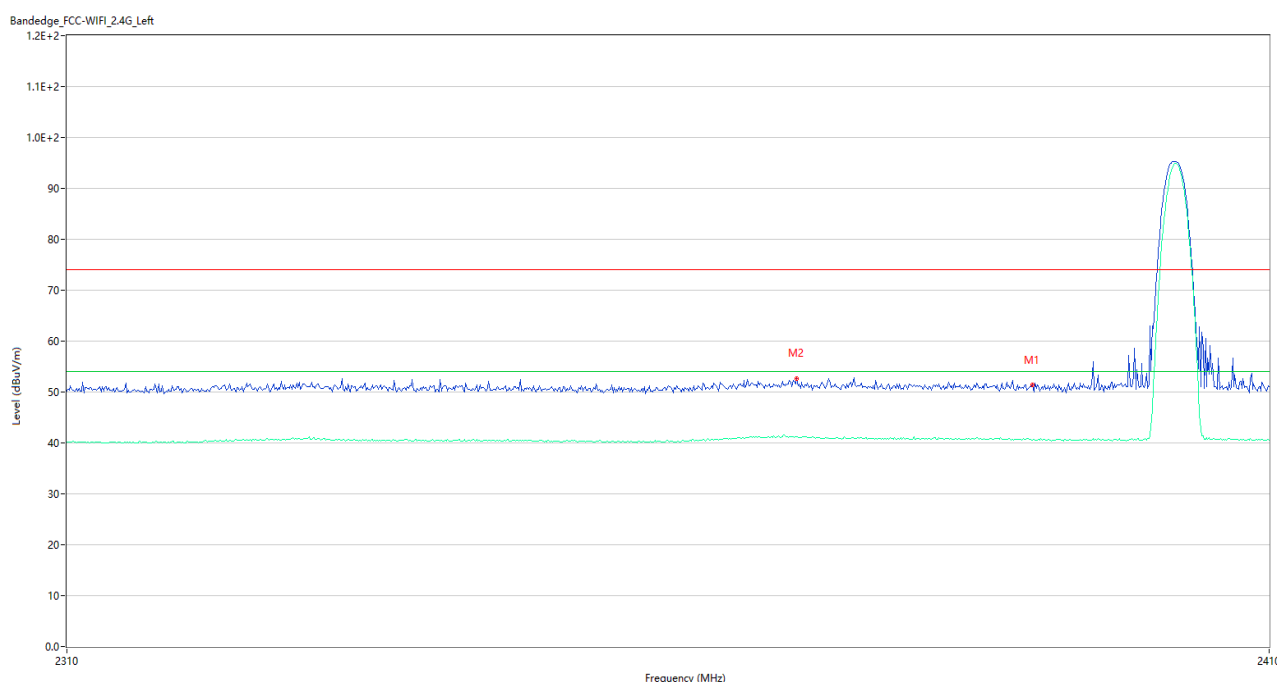
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note 3: According the ANSI C63.10-2020, 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.

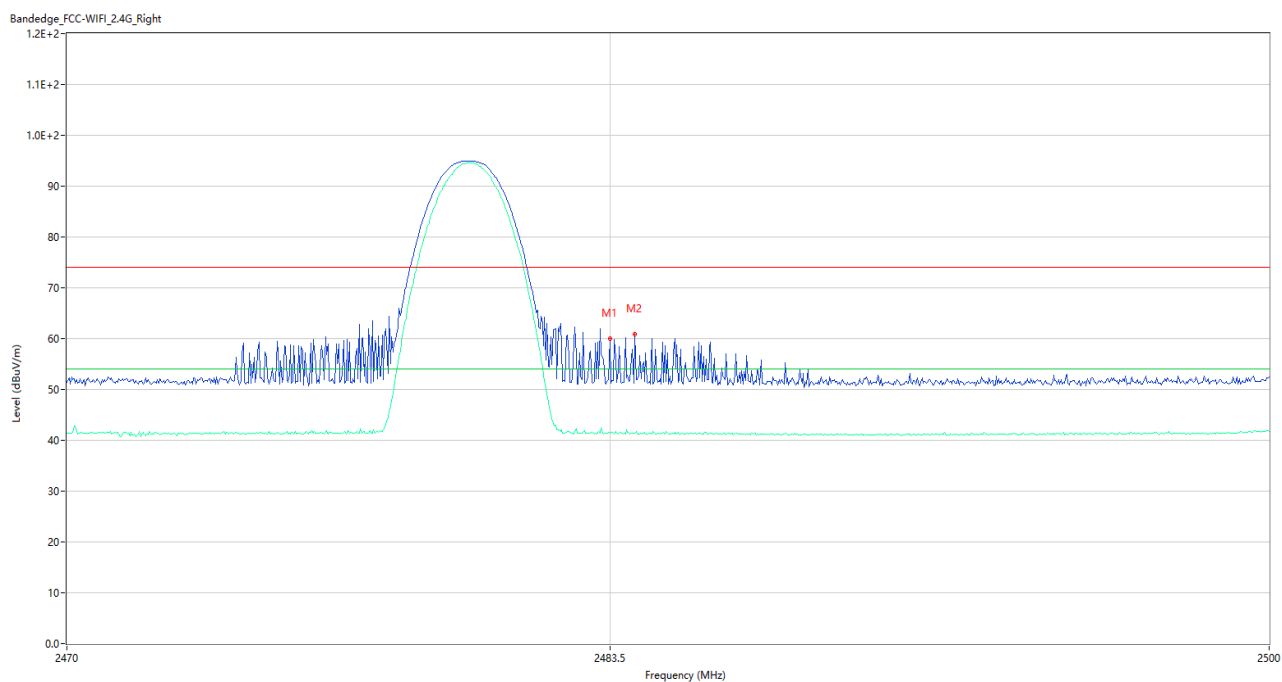
Test Data and Plots

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	51.32	-4.87	74.0	22.68	Peak	3.99	150	Horizontal	Pass
1**	2390.000	40.54	-4.87	54.0	13.46	AV	3.99	150	Horizontal	Pass
2	2370.200	52.59	-4.01	74.0	21.41	Peak	222.00	150	Horizontal	Pass
2**	2370.200	41.25	-4.01	54.0	12.75	AV	222.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



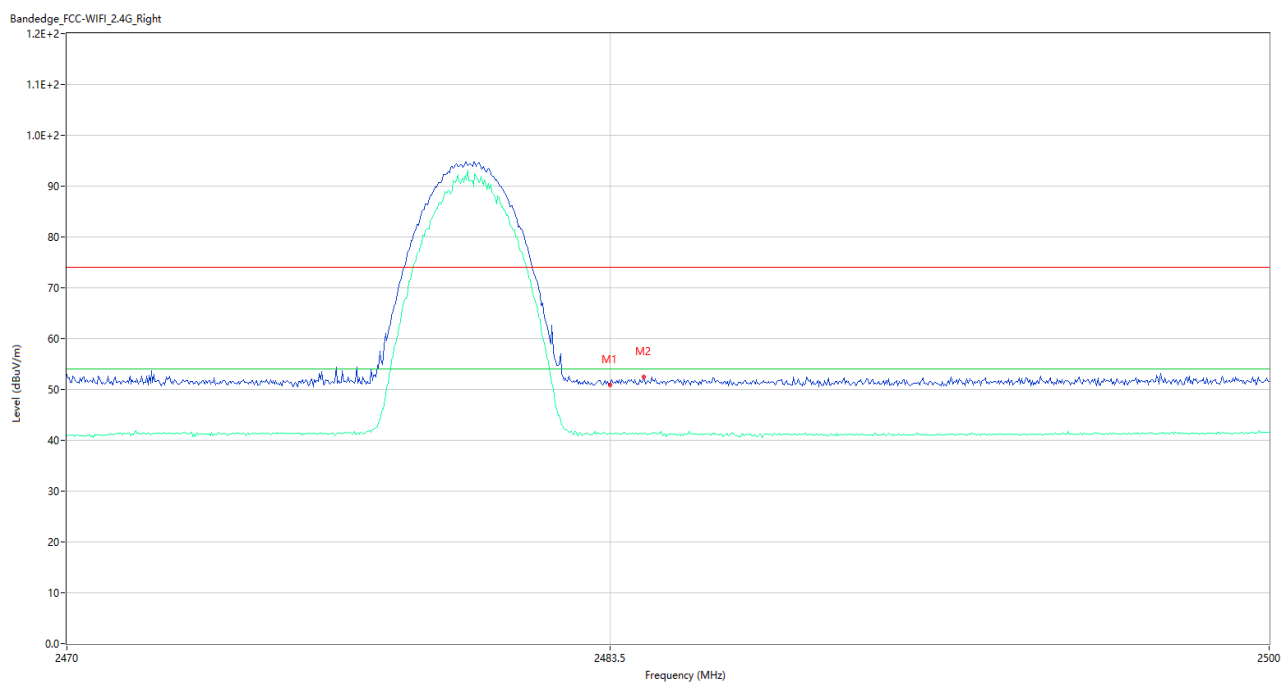
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.94	-3.78	74.0	14.06	Peak	20.00	150	Horizontal	Pass
1**	2483.500	41.37	-3.78	54.0	12.63	AV	20.00	150	Horizontal	Pass
2	2484.130	60.85	-3.78	74.0	13.15	Peak	28.00	150	Horizontal	Pass
2**	2484.130	41.41	-3.78	54.0	12.59	AV	28.00	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	52.15	-4.87	74.0	21.85	Peak	263.00	150	Horizontal	Pass
1**	2390.000	40.60	-4.87	54.0	13.40	AV	263.00	150	Horizontal	Pass
2	2369.400	53.43	-4.07	74.0	20.57	Peak	267.00	150	Horizontal	Pass
2**	2369.400	41.40	-4.07	54.0	12.60	AV	267.00	150	Horizontal	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	50.91	-3.78	74.0	23.09	Peak	3.00	150	Horizontal	Pass
1**	2483.500	41.44	-3.78	54.0	12.56	AV	3.00	150	Horizontal	Pass
2	2484.340	52.38	-3.78	74.0	21.62	Peak	233.00	150	Horizontal	Pass
2**	2484.340	41.31	-3.78	54.0	12.69	AV	233.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2580895-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2580895-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2580895-AI.PDF”.

Statement

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--END OF REPORT--