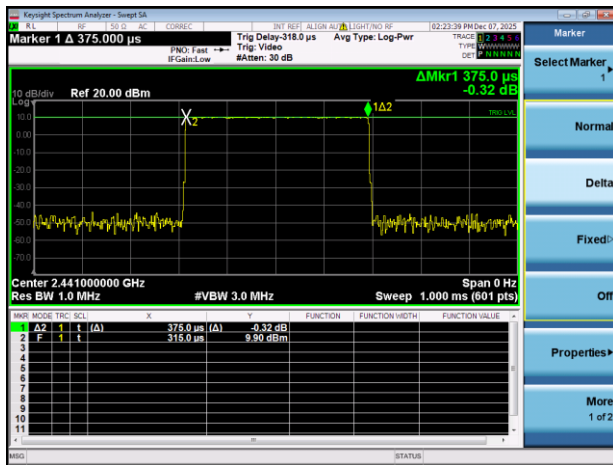
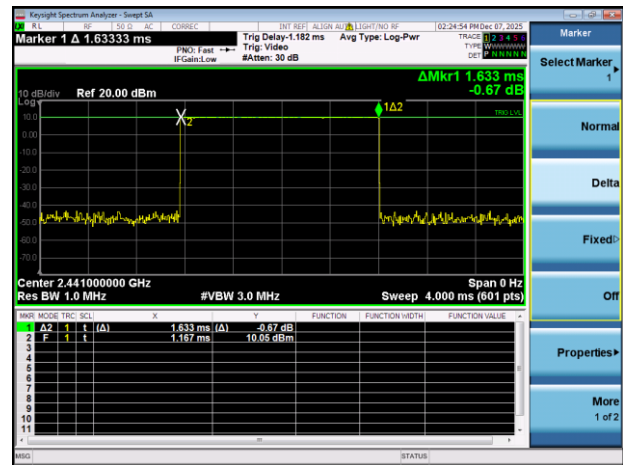


Test Plots

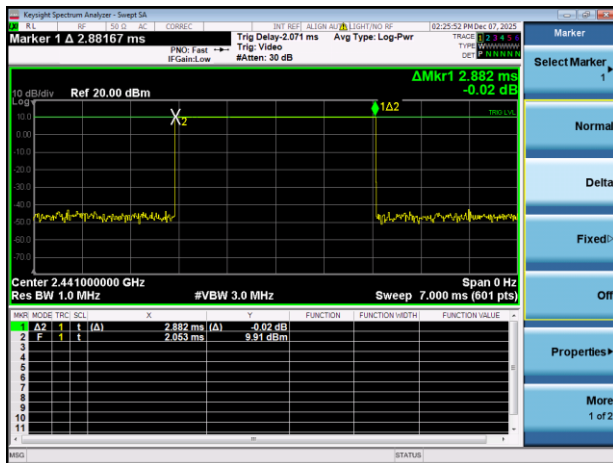
GFSK DH1



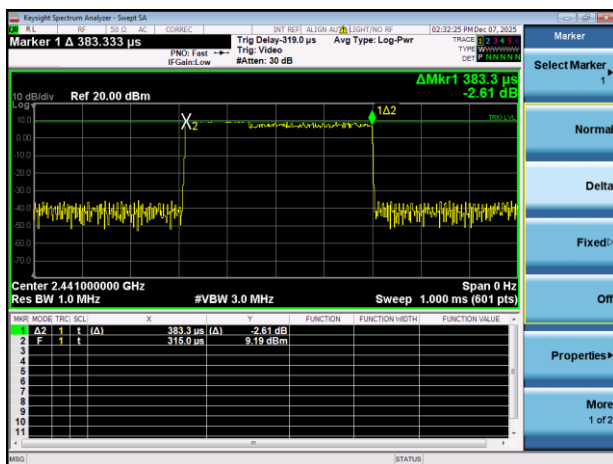
GFSK DH3



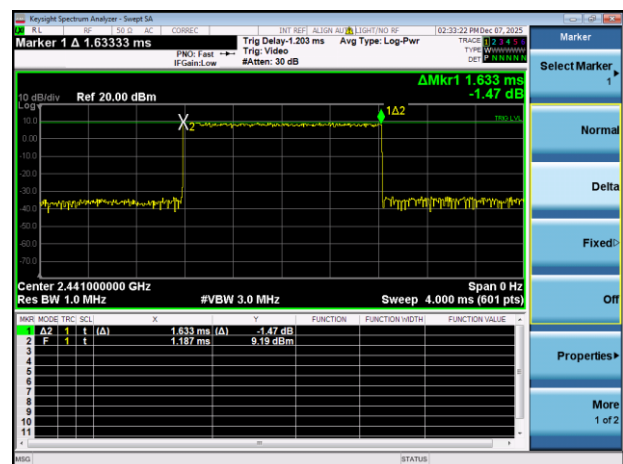
GFSK DH5



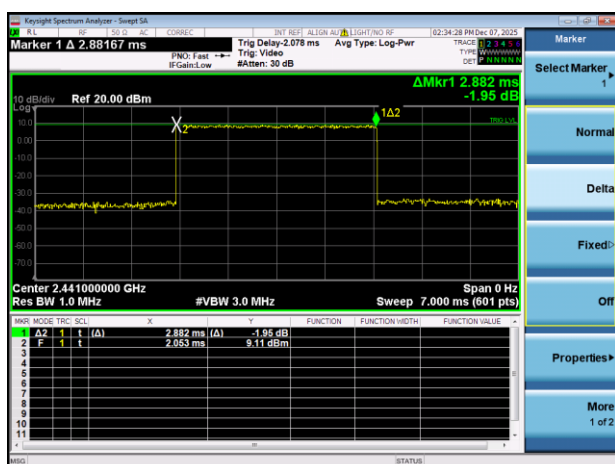
8-DPSK DH1



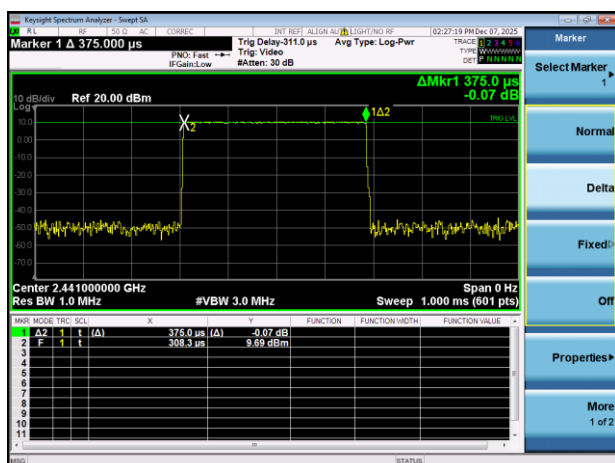
8-DPSK DH3



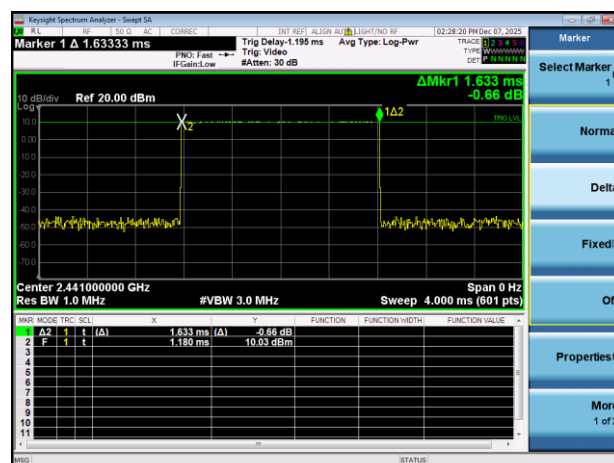
8-DPSK DH5



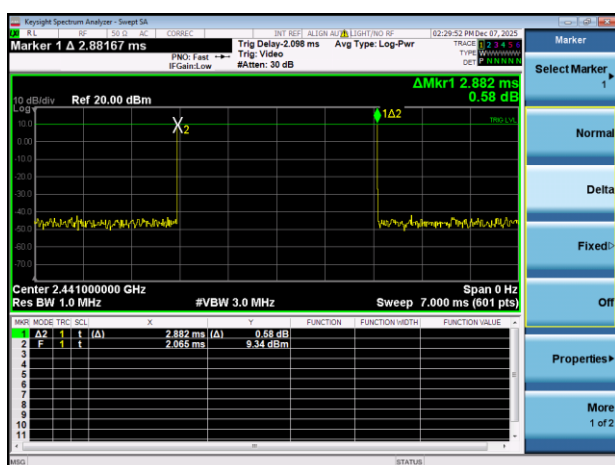
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



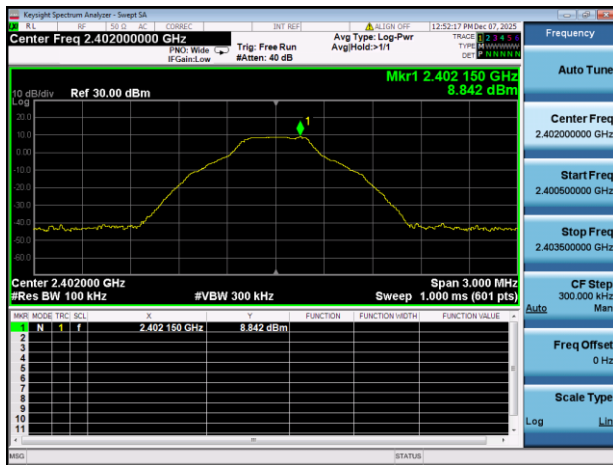
A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

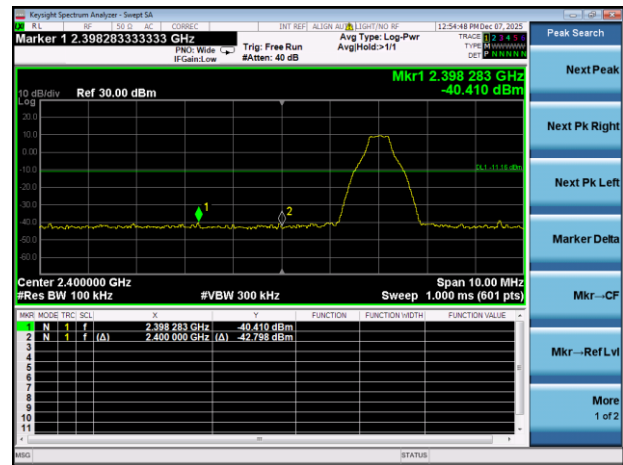
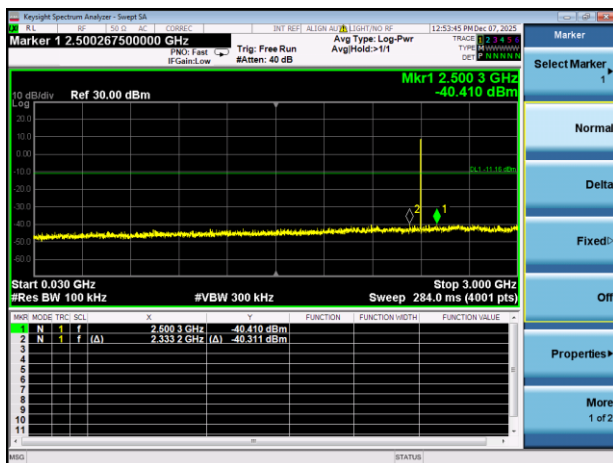
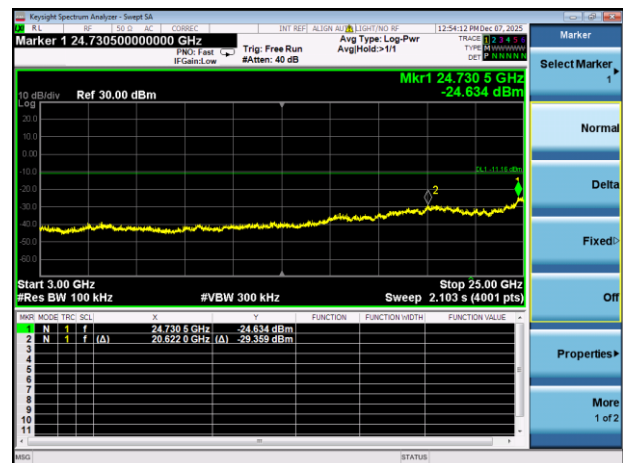
GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.63	8.84	-11.16	Pass
Middle	-24.41	9.77	-10.23	Pass
High	-24.87	12.37	-7.63	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.47	8.51	-11.49	Pass
Middle	-24.90	9.45	-10.55	Pass
High	-25.18	12.06	-7.94	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-24.35	13.92	-6.08	Pass
8-DPSK	-24.62	13.98	-6.02	Pass

Test Plots

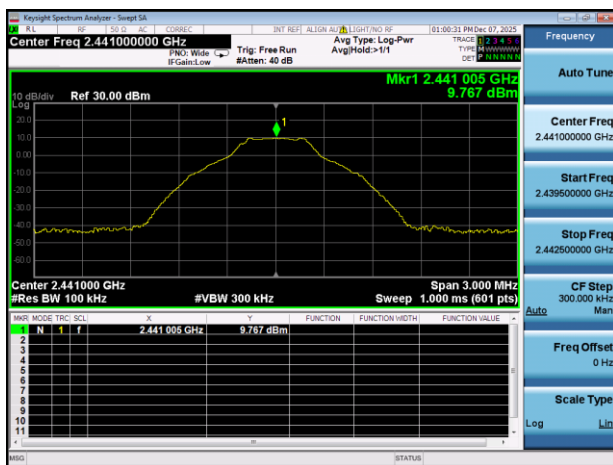
GFSK LOW CHANNEL, CARRIER LEVEL



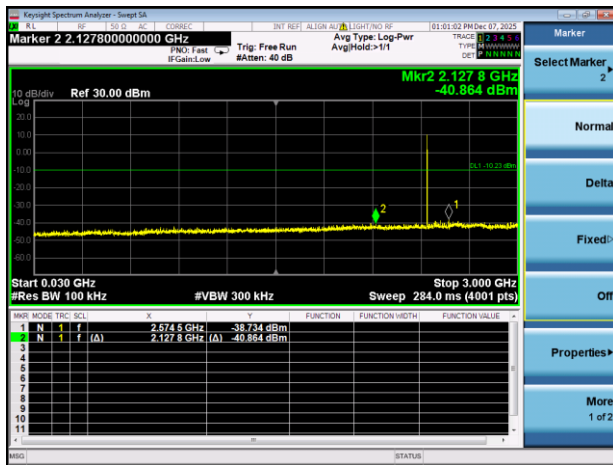
GFSK LOW CHANNEL, BAND EDGE

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

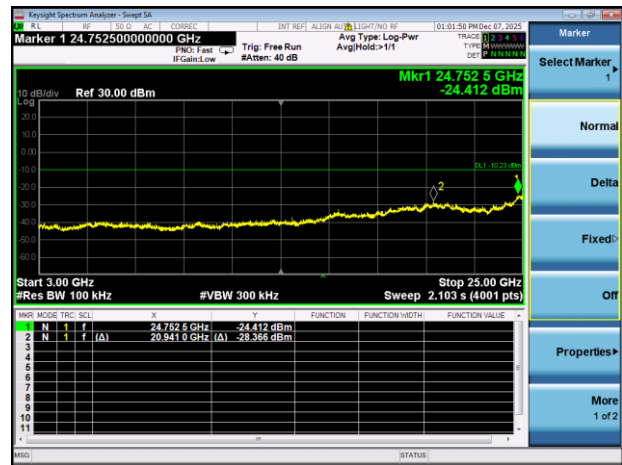
GFSK MIDDLE CHANNEL, CARRIER LEVEL



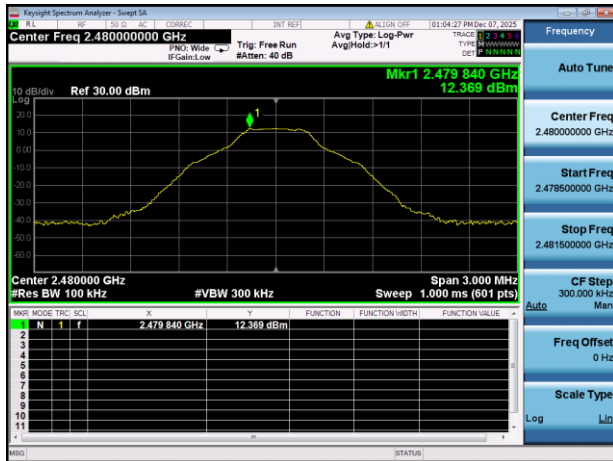
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



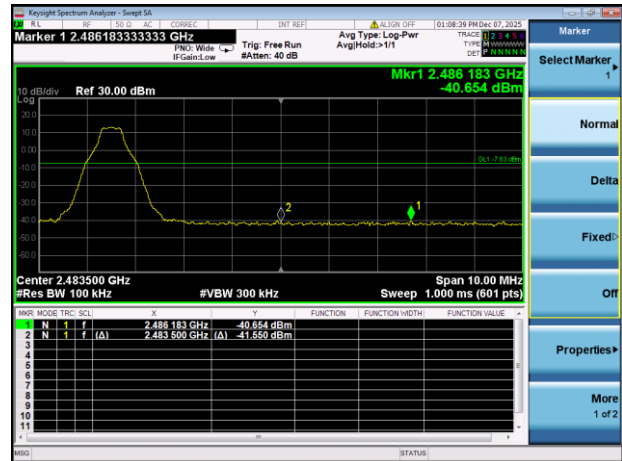
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



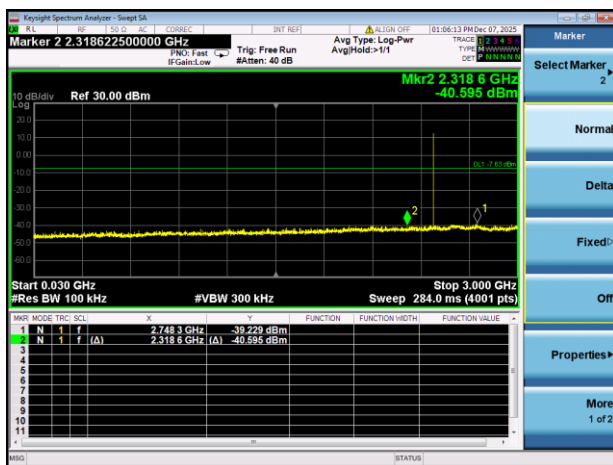
GFSK HIGH CHANNEL, CARRIER LEVEL



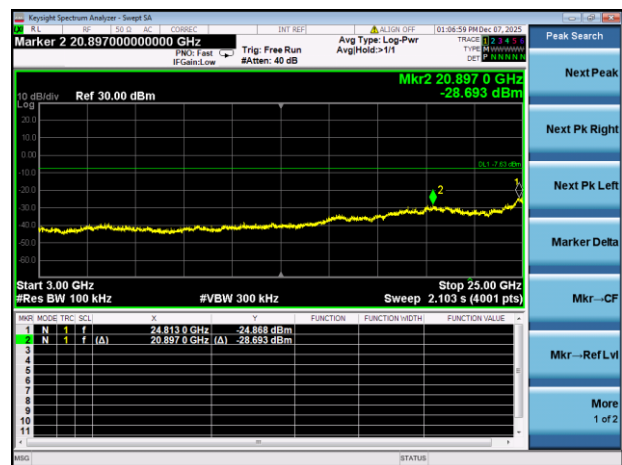
GFSK HIGH CHANNEL, BAND EDGE



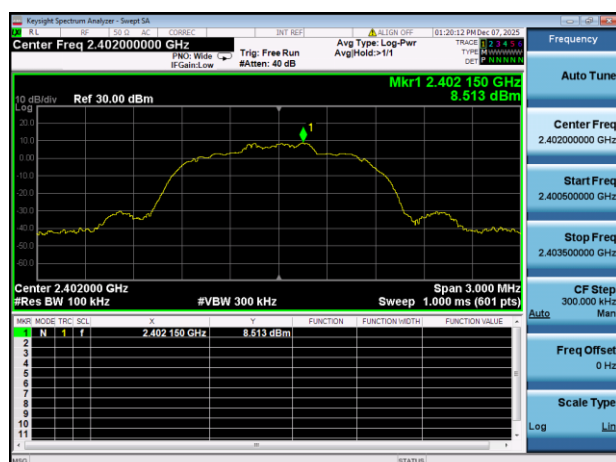
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



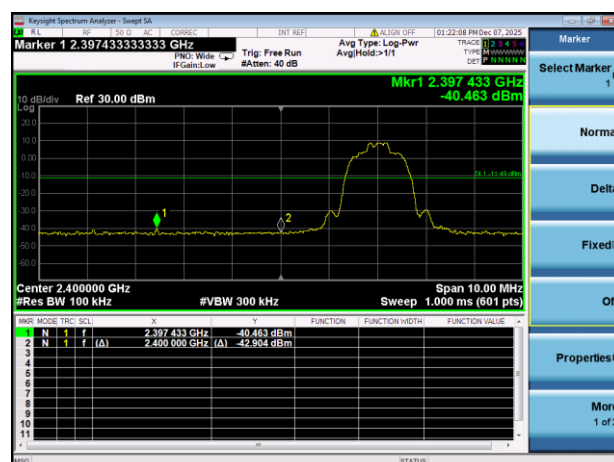
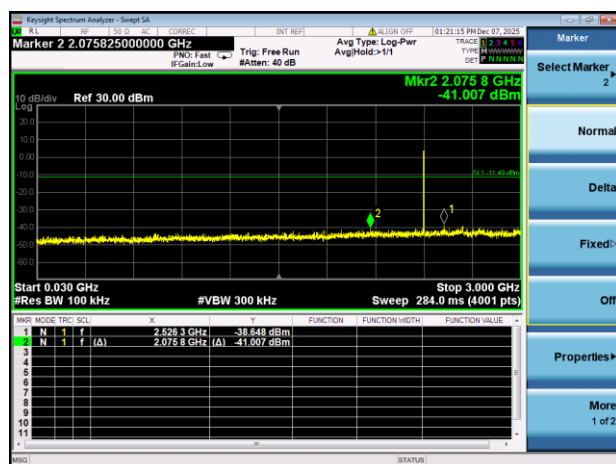
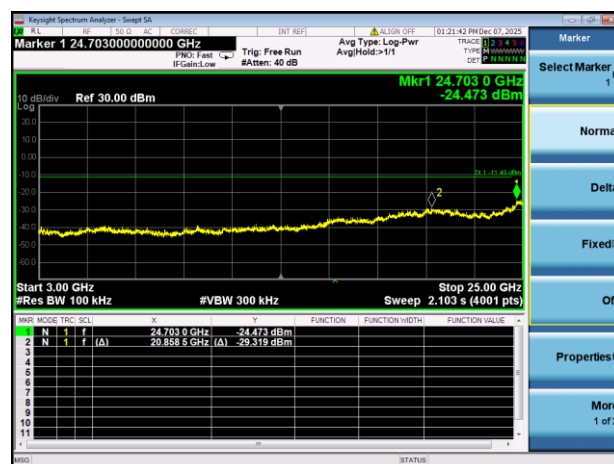
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



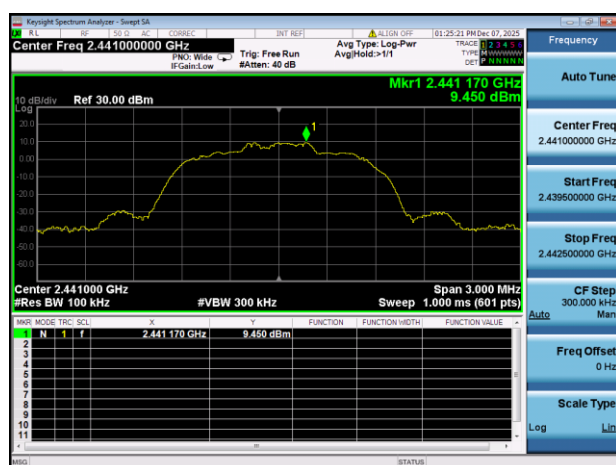
8-DPSK LOW CHANNEL, CARRIER LEVEL



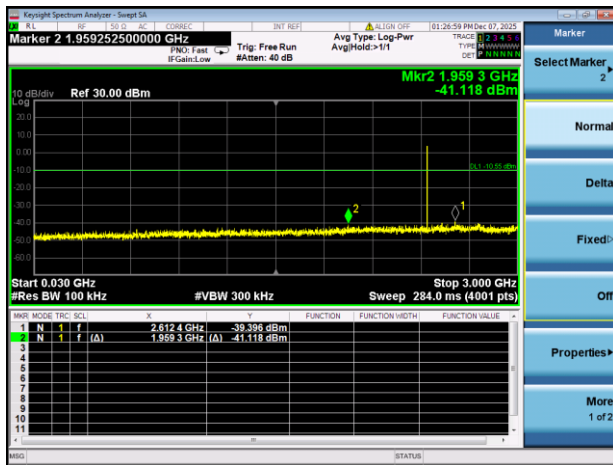
8-DPSK LOW CHANNEL, BAND EDGE

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

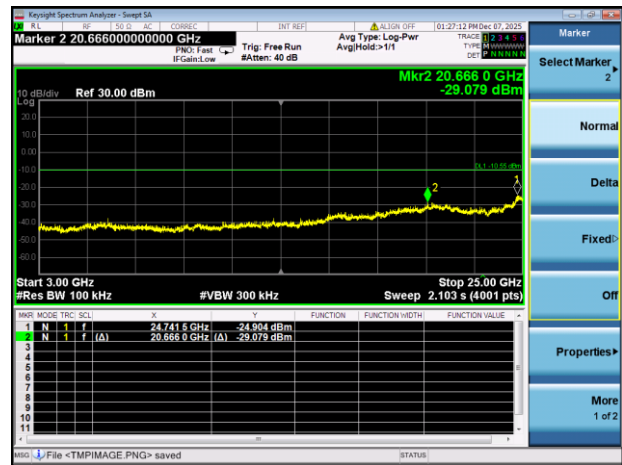
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



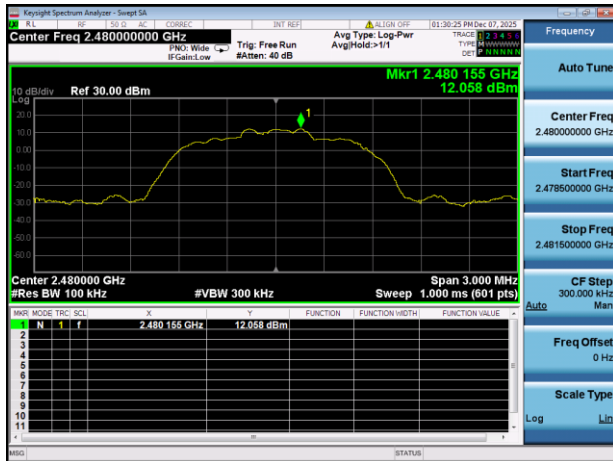
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



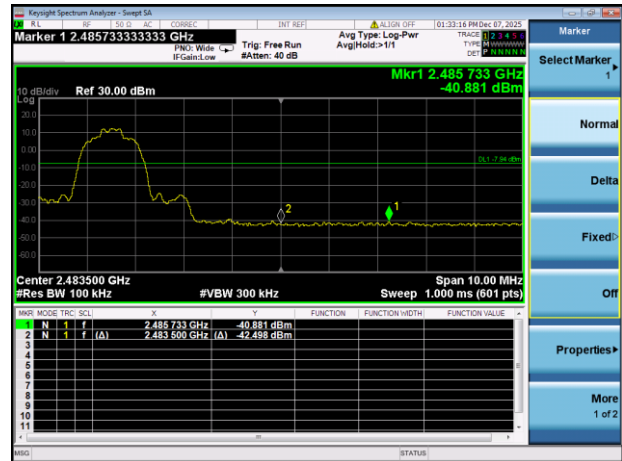
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



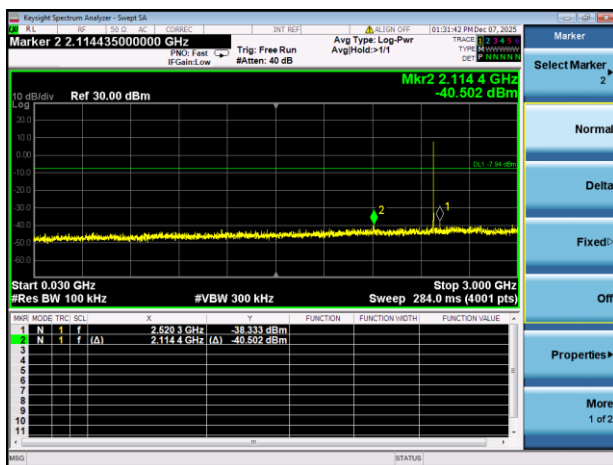
8-DPSK HIGH CHANNEL, CARRIER LEVEL



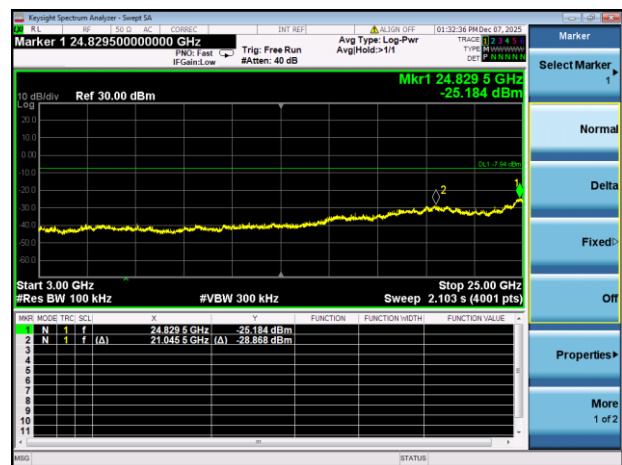
8-DPSK HIGH CHANNEL, BAND EDGE



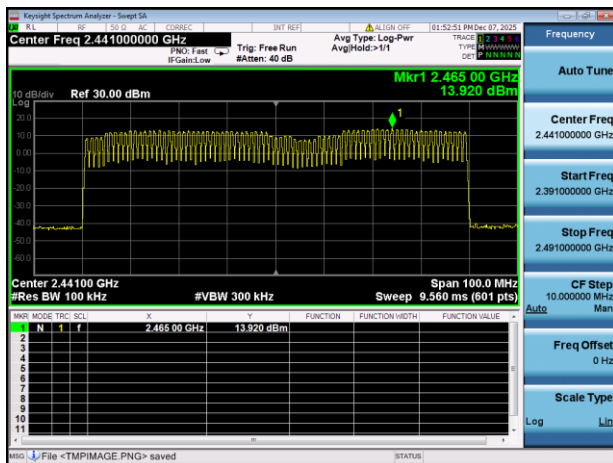
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



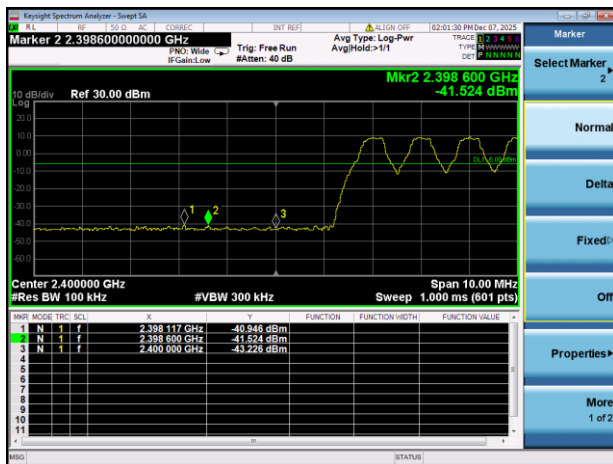
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



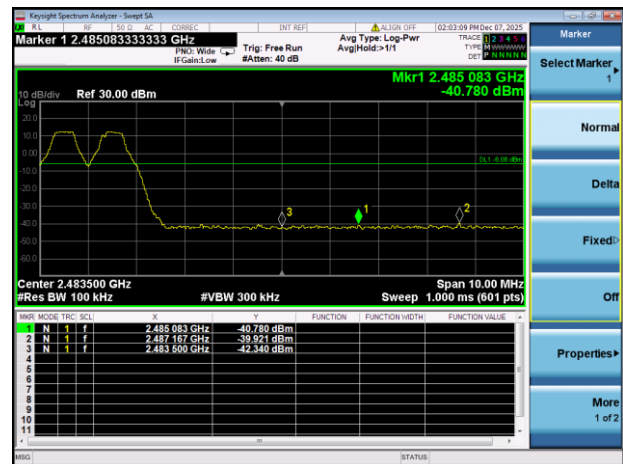
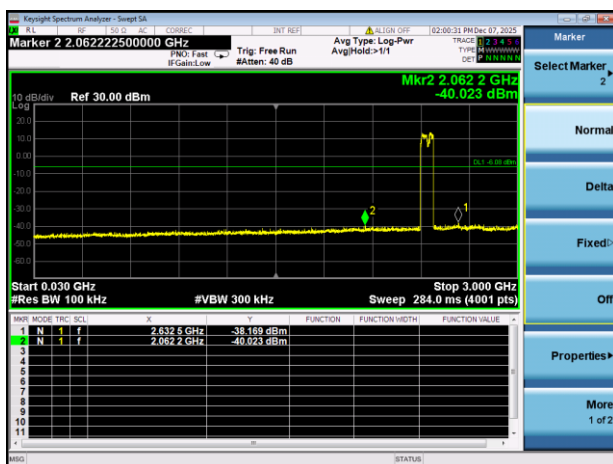
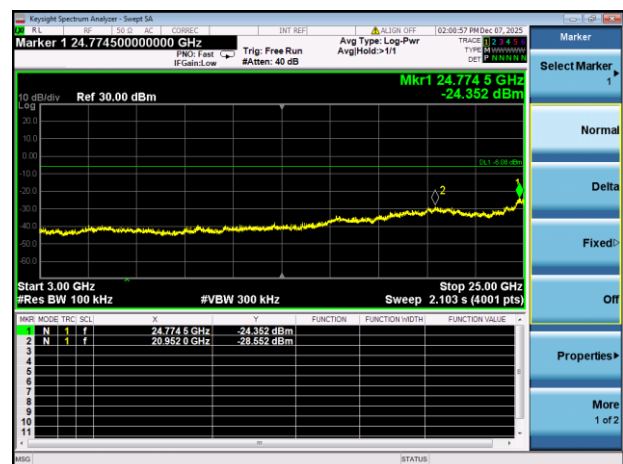
GFSK HOPPING, CARRIER LEVEL



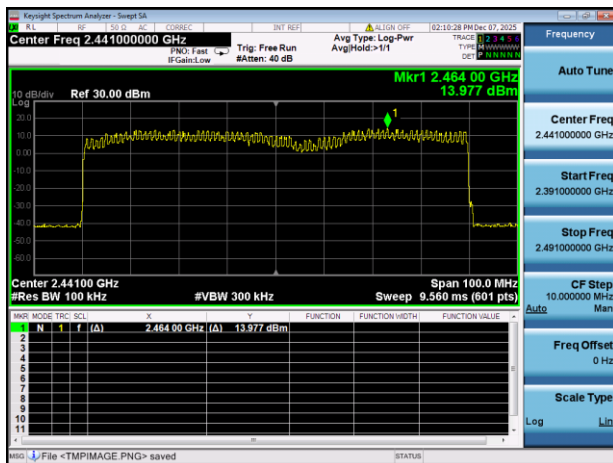
GFSK HOPPING BAND EDGE (LOW)



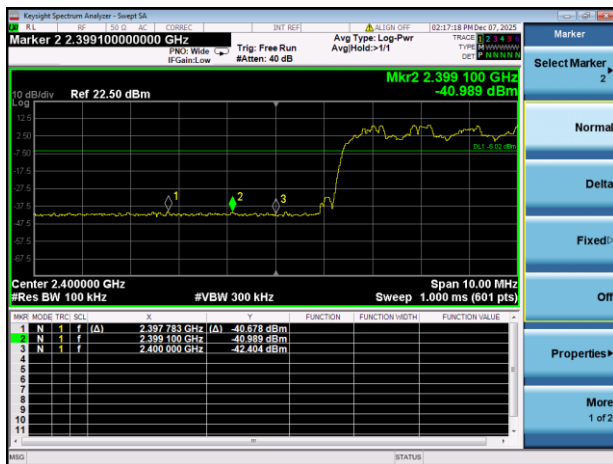
GFSK HOPPING BAND EDGE (HIGH)

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

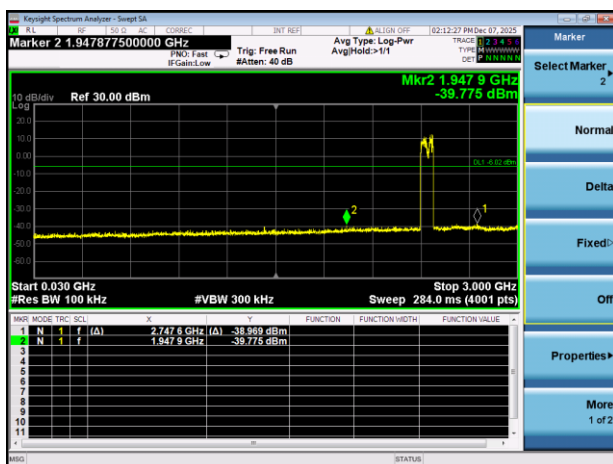
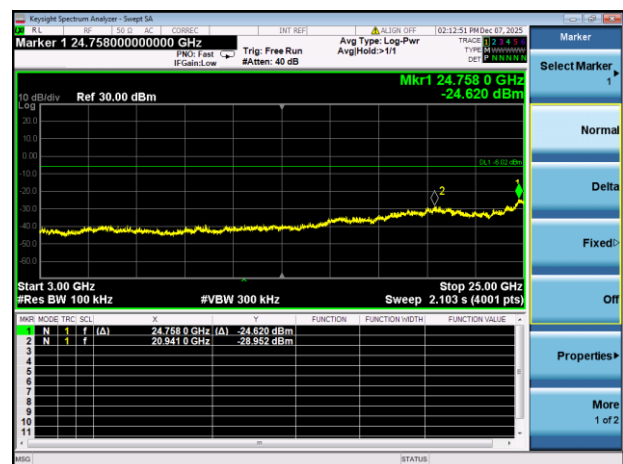
8-DPSK HOPPING, CARRIER LEVEL



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 Emission

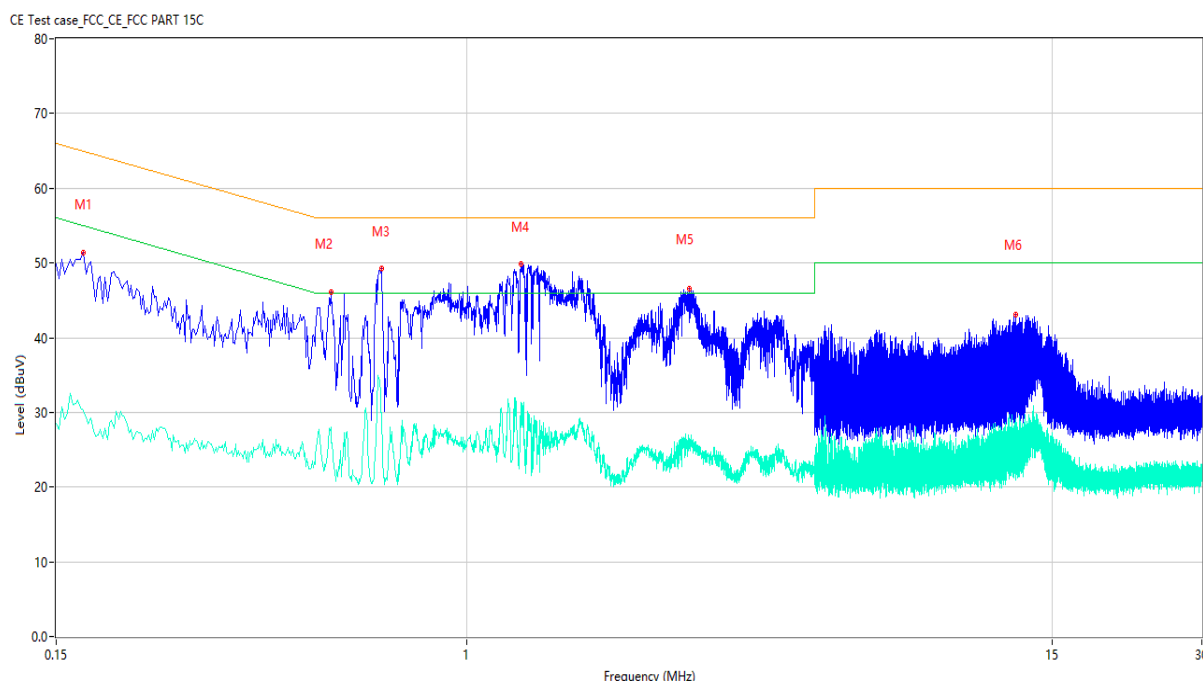
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

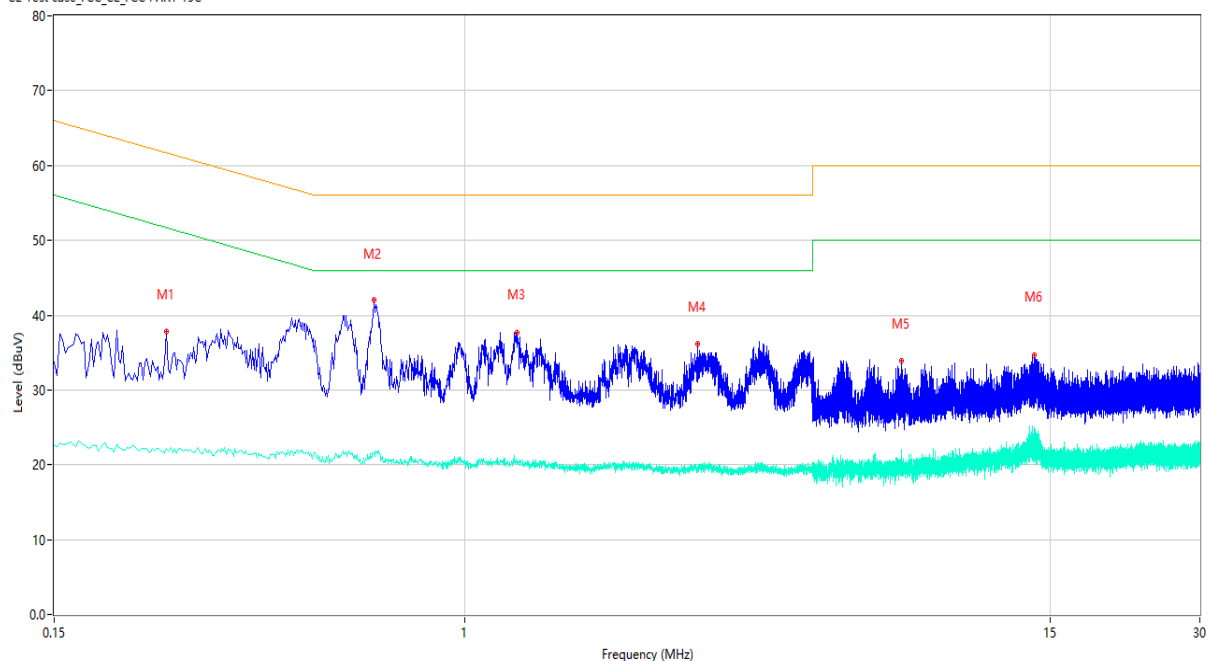
PHASE L



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Margin (dB)	Detector	Line	Verdict
1	0.170	51.30	10.08	64.96	13.66	Peak	L	Pass
1**	0.170	30.25	10.08	54.96	24.71	AV	L	Pass
2	0.534	46.10	10.16	56.00	9.90	Peak	L	Pass
2**	0.534	28.01	10.16	46.00	17.99	AV	L	Pass
3	0.676	49.20	10.22	56.00	6.80	Peak	L	Pass
3**	0.676	29.91	10.22	46.00	16.09	AV	L	Pass
4	1.290	49.81	10.23	56.00	6.19	Peak	L	Pass
4**	1.290	31.28	10.23	46.00	14.72	AV	L	Pass
5	2.804	46.61	10.38	56.00	9.39	Peak	L	Pass
5**	2.804	26.46	10.38	46.00	19.54	AV	L	Pass
6	12.694	43.06	11.07	60.00	16.94	Peak	L	Pass
6**	12.694	29.10	11.07	50.00	20.90	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.252	37.82	10.15	61.69	23.87	Peak	N	Pass
1**	0.252	22.19	10.15	51.69	29.50	AV	N	Pass
2	0.658	42.04	10.21	56.00	13.96	Peak	N	Pass
2**	0.658	21.50	10.21	46.00	24.50	AV	N	Pass
3	1.274	37.72	10.25	56.00	18.28	Peak	N	Pass
3**	1.274	20.20	10.25	46.00	25.80	AV	N	Pass
4	2.942	36.17	10.30	56.00	19.83	Peak	N	Pass
4**	2.942	19.63	10.30	46.00	26.37	AV	N	Pass
5	7.536	33.89	10.67	60.00	26.11	Peak	N	Pass
5**	7.536	22.00	10.67	50.00	28.00	AV	N	Pass
6	13.928	34.68	11.09	60.00	25.32	Peak	N	Pass
6**	13.928	24.99	11.09	50.00	25.01	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.

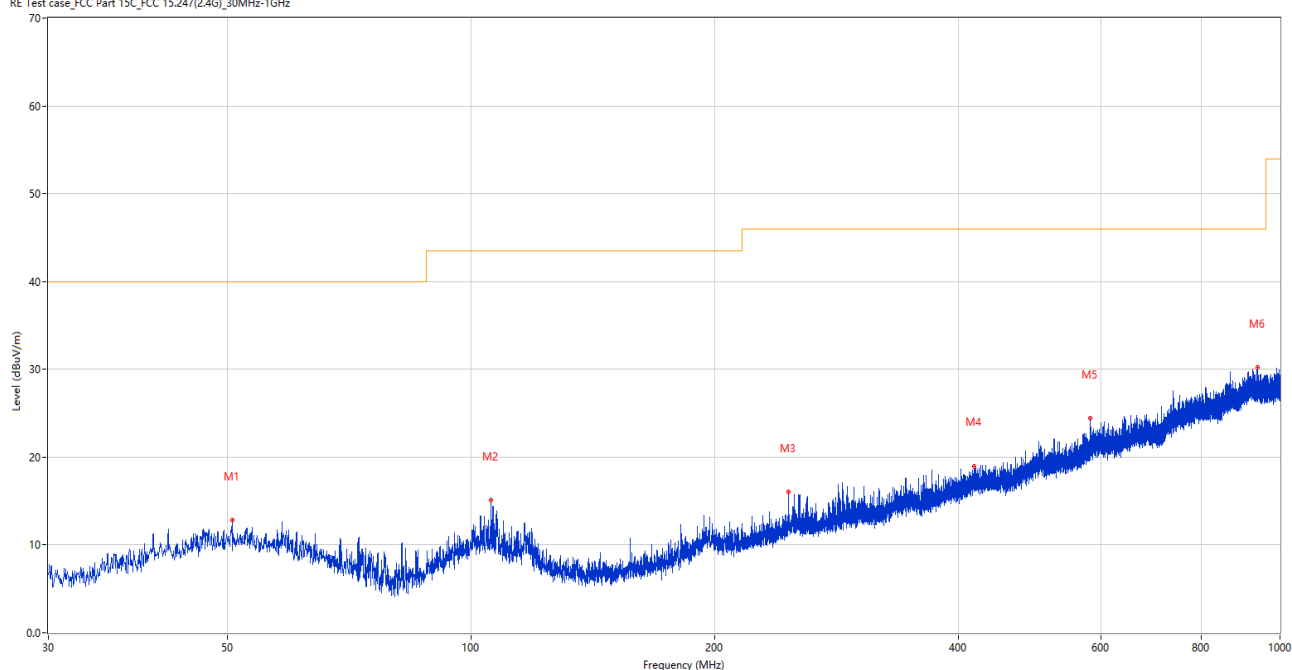
Note 4: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

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

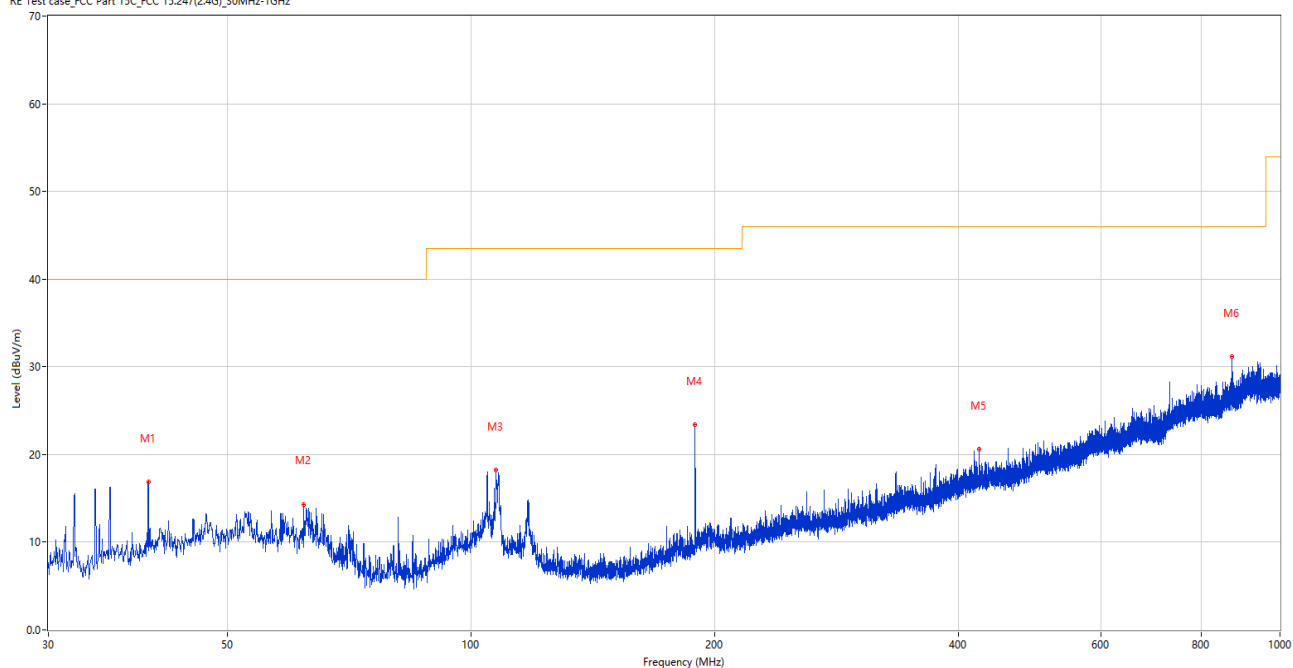
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.612	12.82	-25.69	40.0	27.18	Peak	122.00	200	Horizontal	Pass
2	105.709	15.12	-26.91	43.5	28.38	Peak	245.00	200	Horizontal	Pass
3	246.698	16.07	-24.95	46.0	29.93	Peak	77.00	200	Horizontal	Pass
4	419.067	18.90	-20.32	46.0	27.10	Peak	58.00	100	Horizontal	Pass
5	583.191	24.42	-16.07	46.0	21.58	Peak	310.00	200	Horizontal	Pass
6	937.872	30.25	-9.26	46.0	15.75	Peak	358.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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

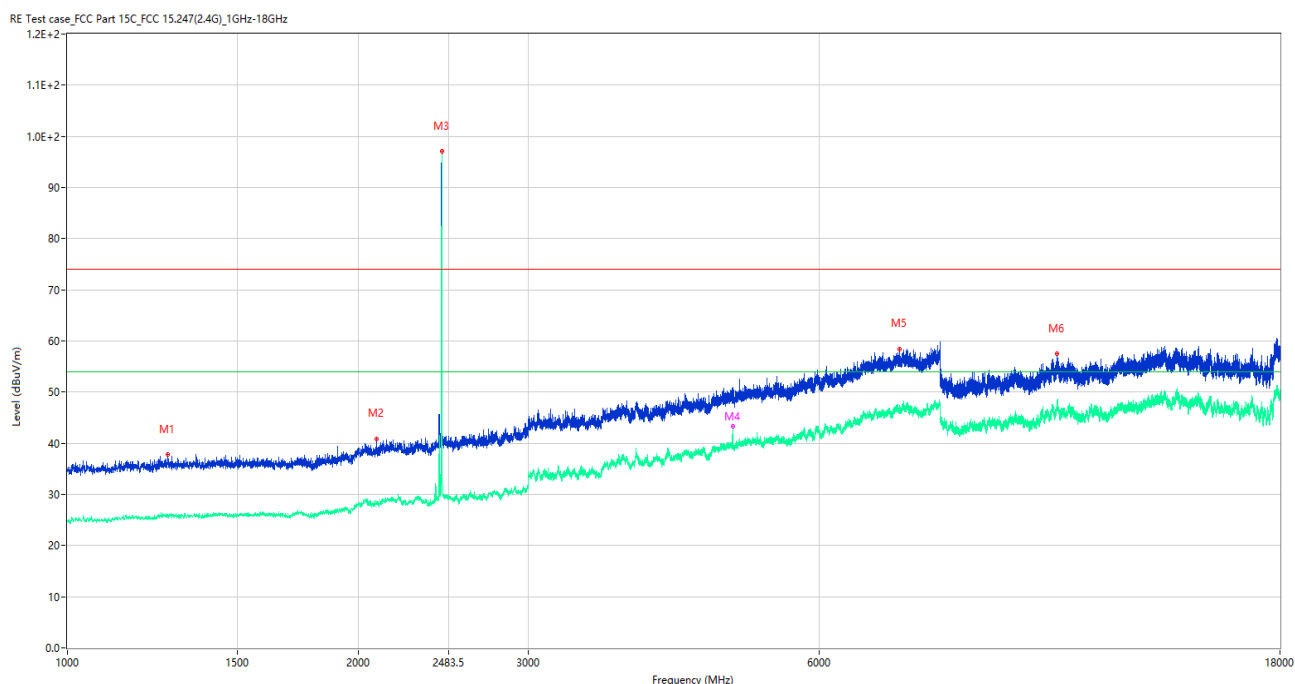


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.894	16.84	-27.24	40.0	23.16	Peak	257.00	200	Vertical	Pass
2	62.059	14.32	-27.14	40.0	25.68	Peak	221.00	100	Vertical	Pass
3	107.309	18.21	-27.08	43.5	25.29	Peak	221.00	100	Vertical	Pass
4	189.225	23.37	-27.34	43.5	20.13	Peak	348.00	200	Vertical	Pass
5	424.499	20.56	-20.22	46.0	25.44	Peak	67.00	200	Vertical	Pass
6	872.445	31.16	-10.52	46.0	14.84	Peak	71.00	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.

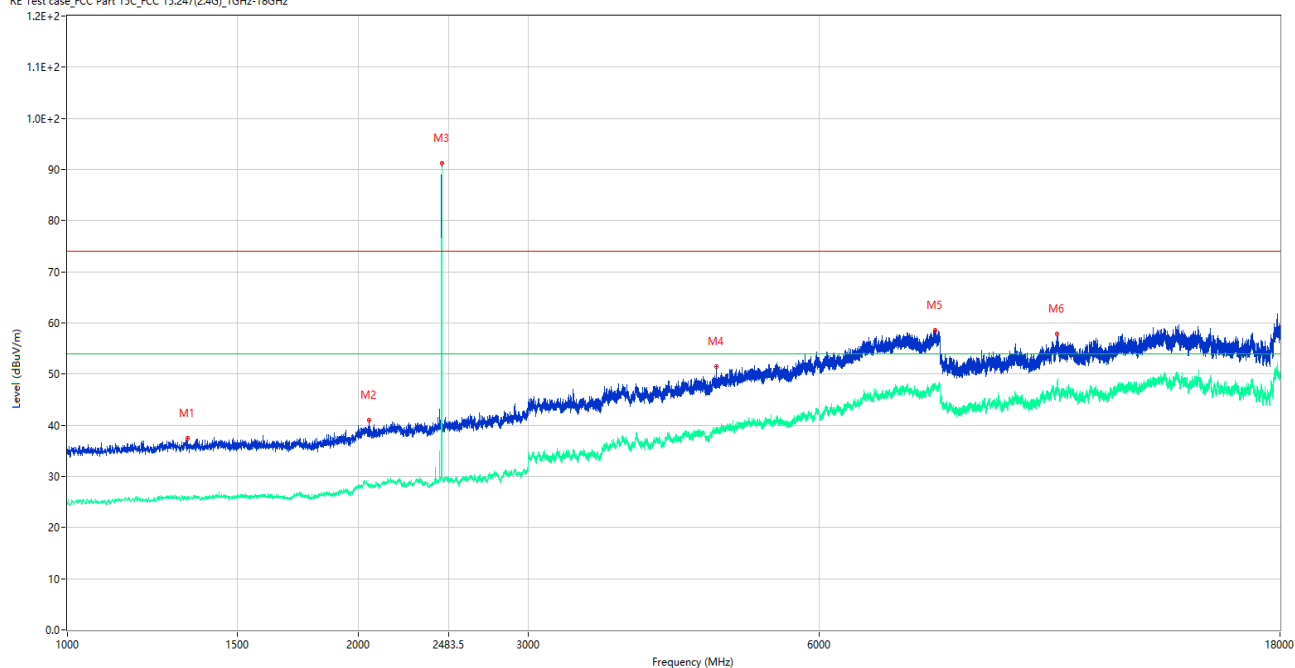
GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1270.500	37.77	-17.37	74.0	36.23	Peak	286.00	150	Horizontal	Pass
1**	1270.500	25.67	-17.37	54.0	28.33	AV	286.00	150	Horizontal	Pass
2	2089.500	40.90	-14.69	74.0	33.10	Peak	204.00	150	Horizontal	Pass
2**	2089.500	28.08	-14.69	54.0	25.92	AV	204.00	150	Horizontal	Pass
3	2441.000	97.10	-13.03	74.0	-23.10	Peak	155.00	150	Horizontal	N/A
3**	2441.000	95.36	-13.03	54.0	-41.36	AV	155.00	150	Horizontal	N/A
4	4882.500	49.66	-1.29	74.0	24.34	Peak	108.00	150	Horizontal	Pass
4**	4882.500	43.35	-1.29	54.0	10.65	AV	108.00	150	Horizontal	Pass
5	7271.000	58.45	5.43	74.0	15.55	Peak	111.00	150	Horizontal	Pass
5**	7271.000	46.59	5.43	54.0	7.41	AV	111.00	150	Horizontal	Pass
6	10584.500	57.51	4.84	74.0	16.49	Peak	4.00	150	Horizontal	Pass
6**	10584.500	47.75	4.84	54.0	6.25	AV	4.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

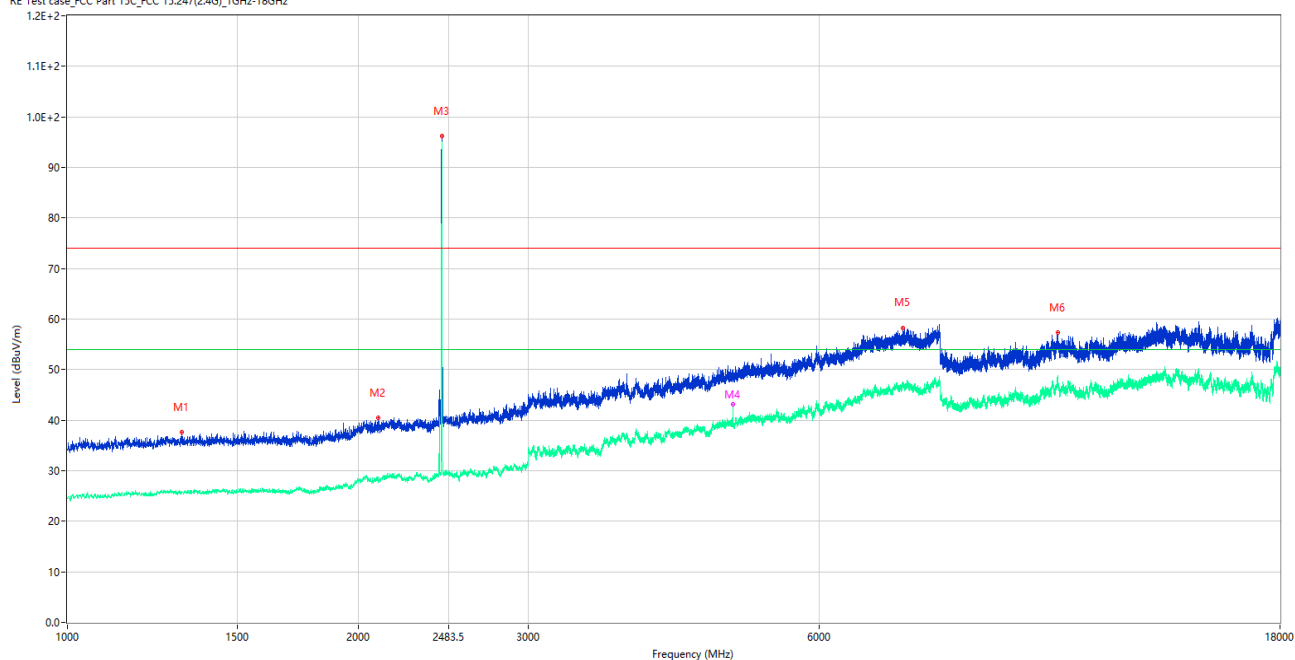
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.500	37.50	-17.35	74.0	36.50	Peak	316.00	150	Vertical	Pass
1**	1331.500	25.90	-17.35	54.0	28.10	AV	316.00	150	Vertical	Pass
2	2051.000	40.93	-14.79	74.0	33.07	Peak	355.00	150	Vertical	Pass
2**	2051.000	28.34	-14.79	54.0	25.66	AV	355.00	150	Vertical	Pass
3	2441.000	91.20	-13.03	74.0	-17.20	Peak	240.00	150	Vertical	N/A
3**	2441.000	89.46	-13.03	54.0	-35.46	AV	240.00	150	Vertical	N/A
4	4698.500	51.49	-1.71	74.0	22.51	Peak	193.00	150	Vertical	Pass
4**	4698.500	39.11	-1.71	54.0	14.89	AV	193.00	150	Vertical	Pass
5	7918.000	58.55	6.88	74.0	15.45	Peak	304.00	150	Vertical	Pass
5**	7918.000	47.56	6.88	54.0	6.44	AV	304.00	150	Vertical	Pass
6	10586.000	57.79	4.90	74.0	16.21	Peak	301.00	150	Vertical	Pass
6**	10586.000	47.96	4.90	54.0	6.04	AV	301.00	150	Vertical	Pass

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

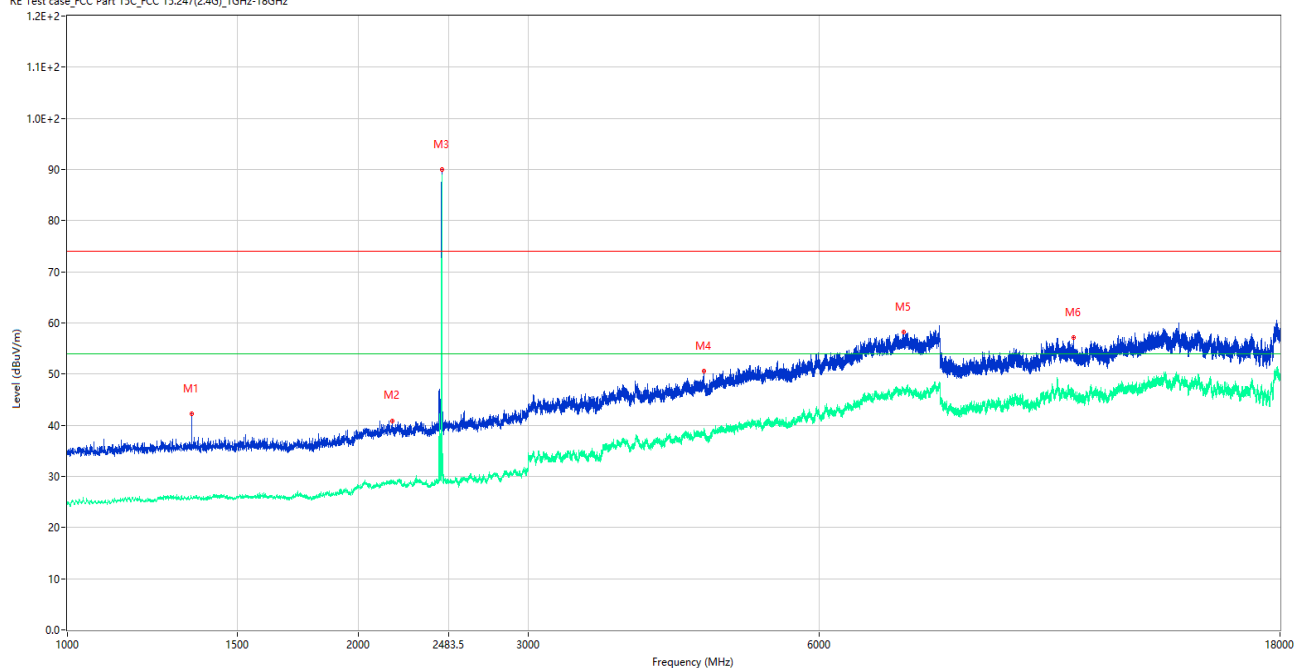
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1314.000	37.61	-17.35	74.0	36.39	Peak	265.00	150	Horizontal	Pass
1**	1314.000	25.85	-17.35	54.0	28.15	AV	265.00	150	Horizontal	Pass
2	2096.000	40.45	-14.66	74.0	33.55	Peak	266.00	150	Horizontal	Pass
2**	2096.000	28.76	-14.66	54.0	25.24	AV	266.00	150	Horizontal	Pass
3	2441.000	96.26	-13.03	74.0	-22.26	Peak	159.00	150	Horizontal	N/A
3**	2441.000	93.05	-13.03	54.0	-39.05	AV	159.00	150	Horizontal	N/A
4	4882.500	49.36	-1.29	74.0	24.64	Peak	110.00	150	Horizontal	Pass
4**	4882.500	43.19	-1.29	54.0	10.81	AV	110.00	150	Horizontal	Pass
5	7319.500	58.28	5.74	74.0	15.72	Peak	40.00	150	Horizontal	Pass
5**	7319.500	47.32	5.74	54.0	6.68	AV	40.00	150	Horizontal	Pass
6	10593.500	57.30	4.87	74.0	16.70	Peak	74.00	150	Horizontal	Pass
6**	10593.500	48.25	4.87	54.0	5.75	AV	74.00	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	1345.500	42.20	-17.42	74.0	31.80	Peak	23.00	150	Vertical	Pass
1**	1345.500	25.67	-17.42	54.0	28.33	AV	23.00	150	Vertical	Pass
2	2168.000	40.89	-14.11	74.0	33.11	Peak	38.00	150	Vertical	Pass
2**	2168.000	28.82	-14.11	54.0	25.18	AV	38.00	150	Vertical	Pass
3	2441.000	89.97	-13.03	74.0	-15.97	Peak	66.00	150	Vertical	N/A
3**	2441.000	86.63	-13.03	54.0	-32.63	AV	66.00	150	Vertical	N/A
4	4559.500	50.52	-2.31	74.0	23.48	Peak	288.00	150	Vertical	Pass
4**	4559.500	38.47	-2.31	54.0	15.53	AV	288.00	150	Vertical	Pass
5	7334.500	58.19	5.65	74.0	15.81	Peak	262.00	150	Vertical	Pass
5**	7334.500	46.70	5.65	54.0	7.30	AV	262.00	150	Vertical	Pass
6	11002.500	57.19	3.75	74.0	16.81	Peak	49.00	150	Vertical	Pass
6**	11002.500	46.45	3.75	54.0	7.55	AV	49.00	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.

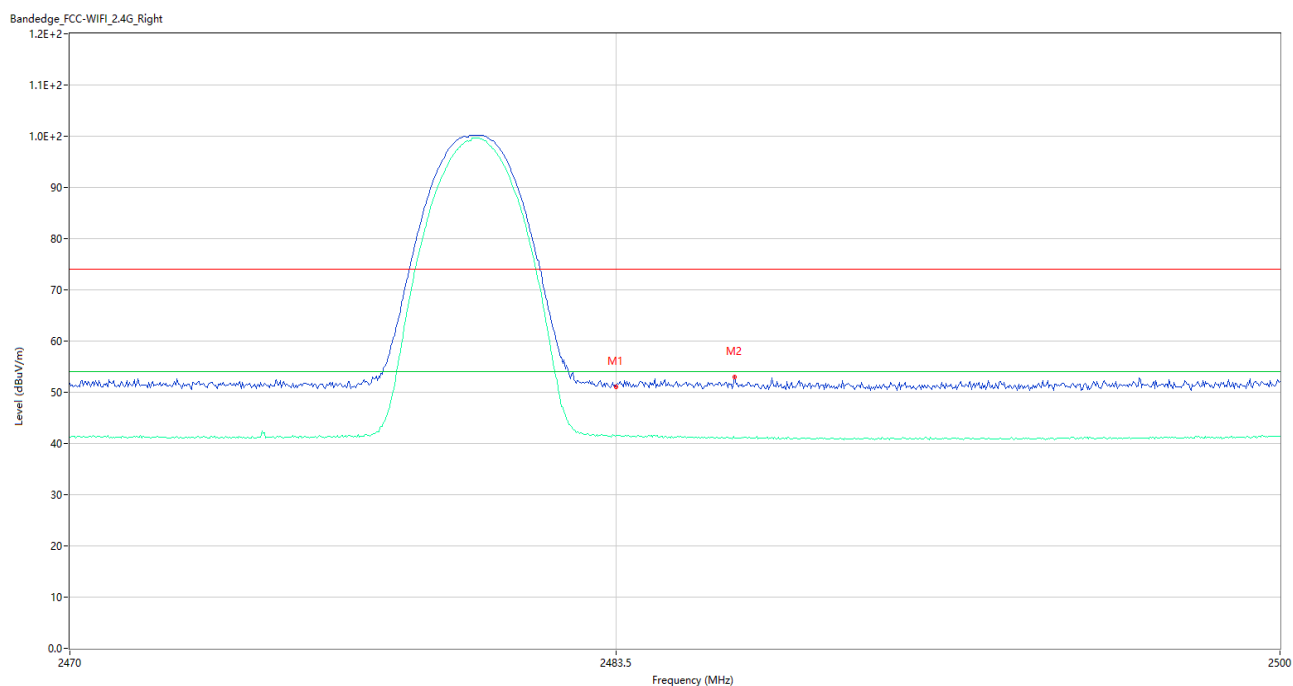
Test Data and Plots

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	50.68	-4.87	74.0	23.32	Peak	123.13	150	Horizontal	Pass
1**	2390.000	40.40	-4.87	54.0	13.60	AV	123.13	150	Horizontal	Pass
2	2375.800	52.71	-4.18	74.0	21.29	Peak	28.00	150	Horizontal	Pass
2**	2375.800	40.51	-4.18	54.0	13.49	AV	28.00	150	Horizontal	Pass

GFSK HIGH CHANNEL



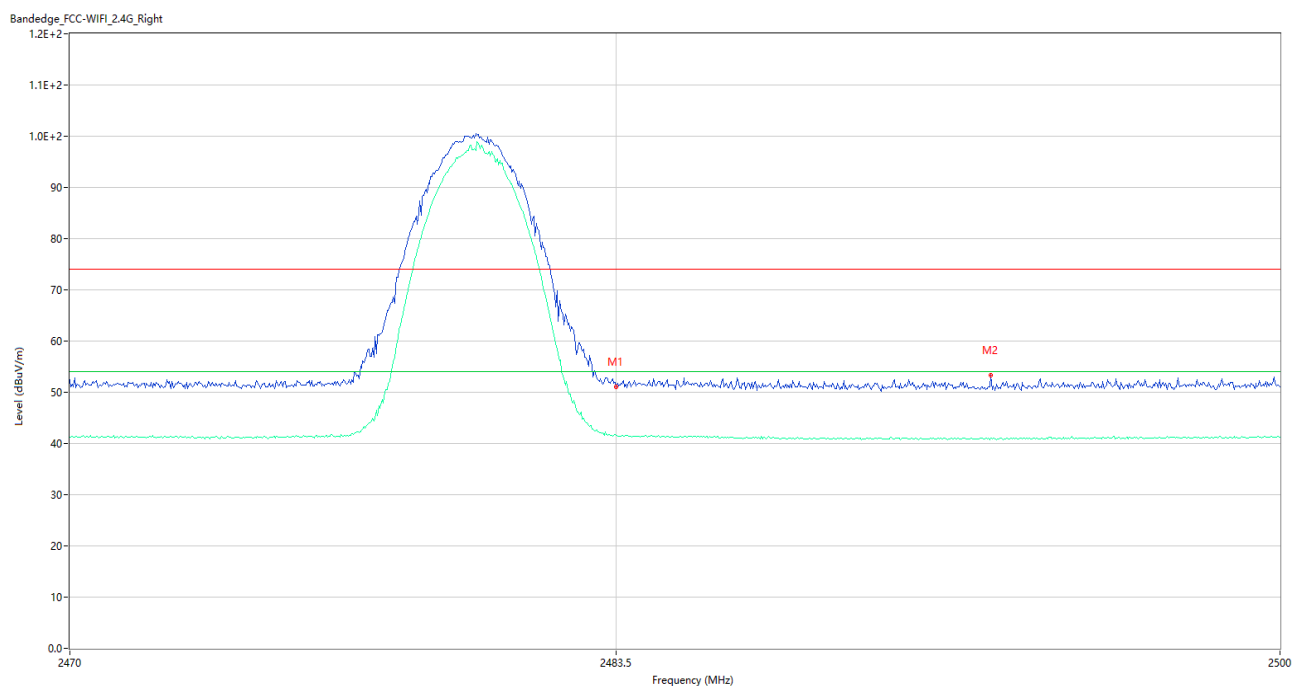
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	51.02	-3.78	74.0	22.98	Peak	162.00	150	Horizontal	Pass
1**	2483.500	41.52	-3.78	54.0	12.48	AV	162.00	150	Horizontal	Pass
2	2486.440	53.04	-3.79	74.0	20.96	Peak	349.00	150	Horizontal	Pass
2**	2486.440	41.09	-3.79	54.0	12.91	AV	349.00	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	50.72	-4.87	74.0	23.28	Peak	15.43	150	Vertical	Pass
1**	2390.000	40.47	-4.87	54.0	13.53	AV	15.43	150	Vertical	Pass
2	2370.600	52.99	-4.02	74.0	21.01	Peak	328.00	150	Vertical	Pass
2**	2370.600	41.01	-4.02	54.0	12.99	AV	328.00	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	51.00	-3.78	74.0	23.00	Peak	12.00	150	Horizontal	Pass
1**	2483.500	41.54	-3.78	54.0	12.46	AV	12.00	150	Horizontal	Pass
2	2492.800	53.34	-3.88	74.0	20.66	Peak	360.00	150	Horizontal	Pass
2**	2492.800	40.97	-3.88	54.0	13.03	AV	360.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH25B1334-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH25B1334-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH25B1334-AI.PDF”.

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--END OF REPORT--