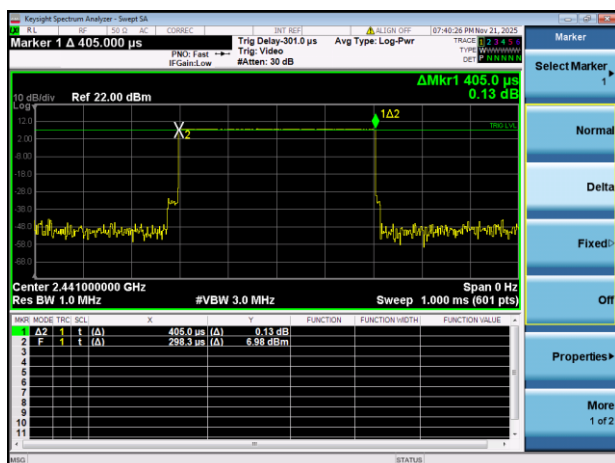
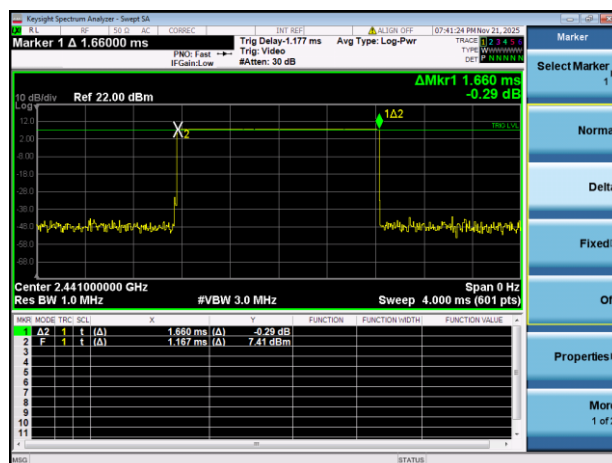


Test Plots

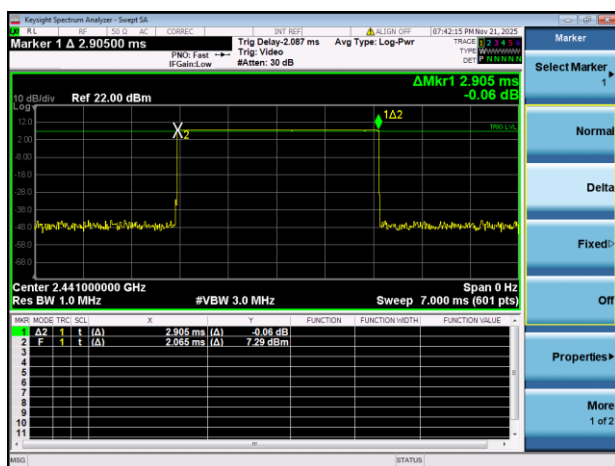
GFSK DH1



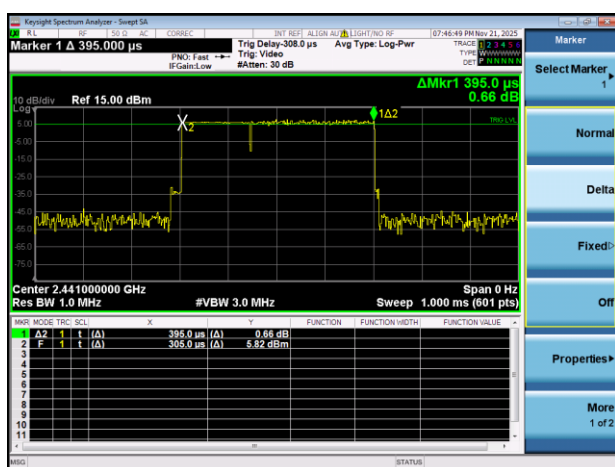
GFSK DH3



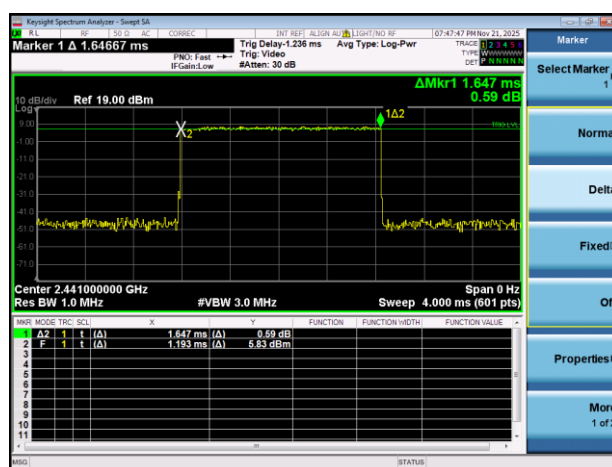
GFSK DH5



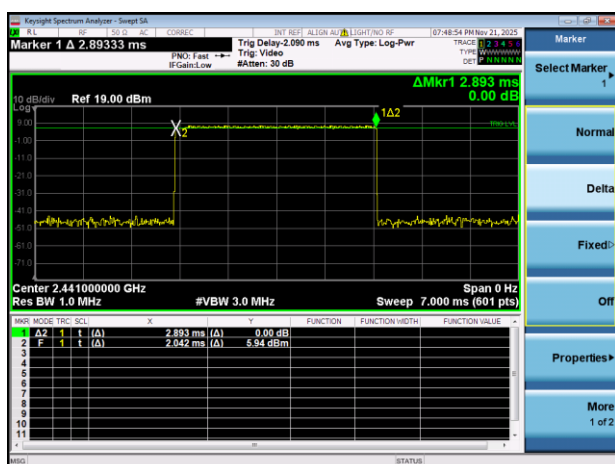
8-DPSK DH1



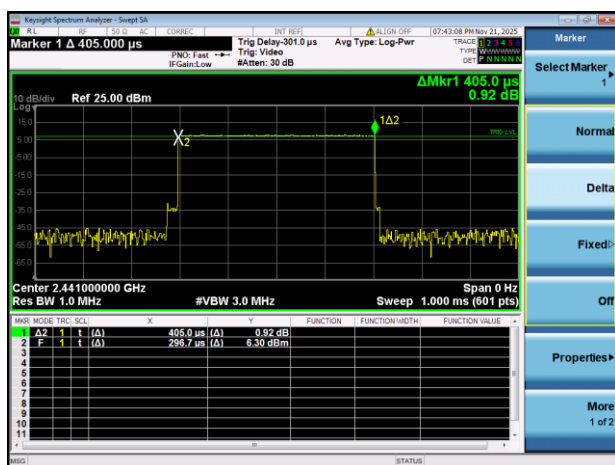
8-DPSK DH3



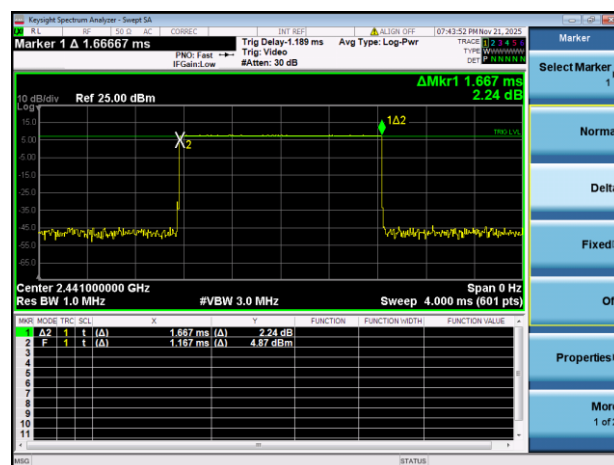
8-DPSK DH5



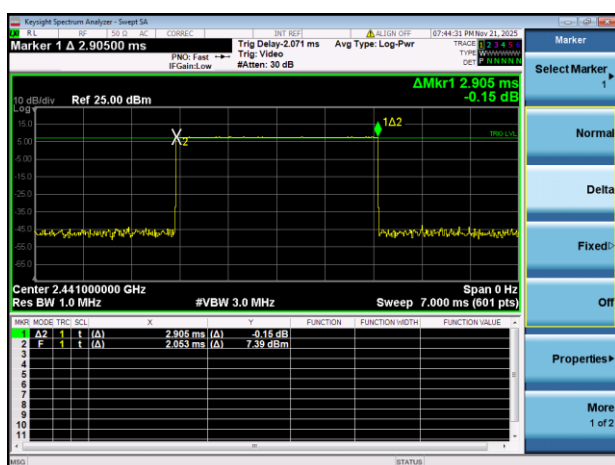
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



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

Test Data

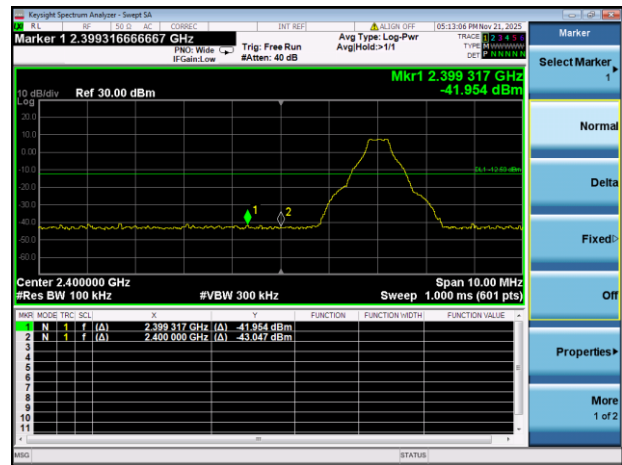
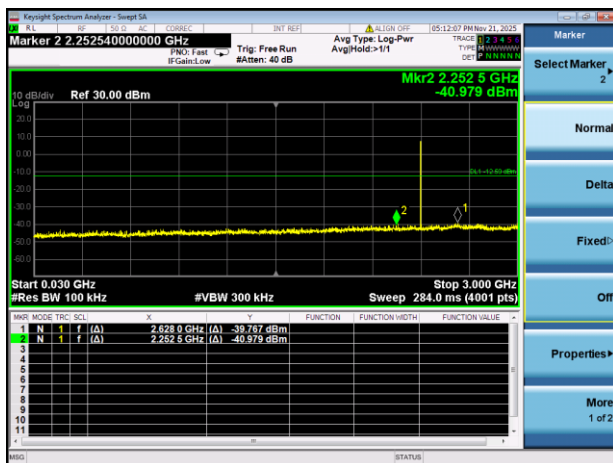
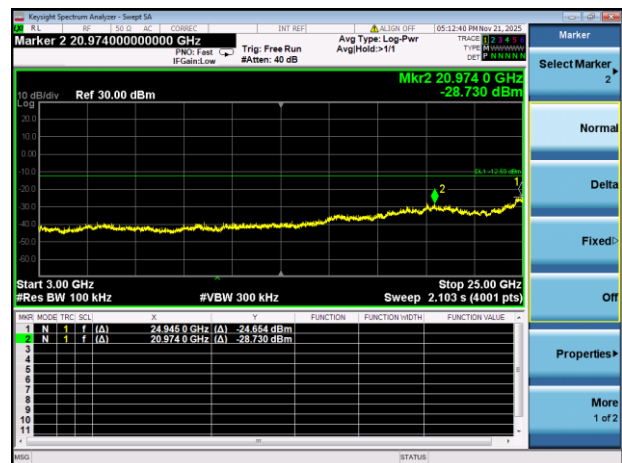
GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-24.65	7.41	-12.59	Pass
Middle	-25.60	7.37	-12.63	Pass
High	-24.50	8.05	-11.95	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-25.08	5.36	-14.65	Pass
Middle	-25.30	5.78	-14.22	Pass
High	-25.02	5.06	-14.94	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-24.50	13.77	-6.23	Pass
8-DPSK	-24.46	12.91	-7.09	Pass

Test Plots

GFSK LOW CHANNEL, CARRIER LEVEL



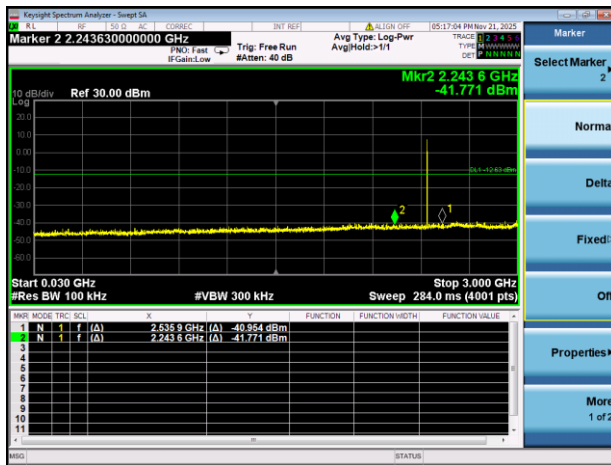
GFSK LOW CHANNEL, BAND EDGE

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

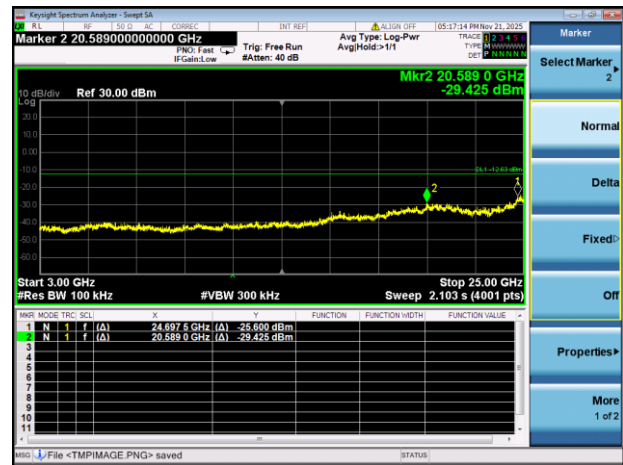
GFSK MIDDLE CHANNEL, CARRIER LEVEL



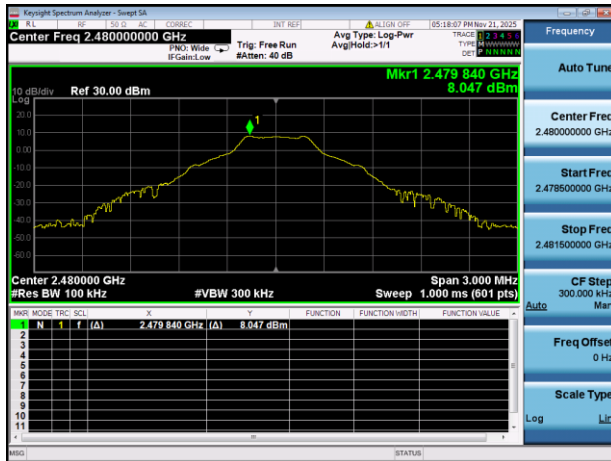
GFSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



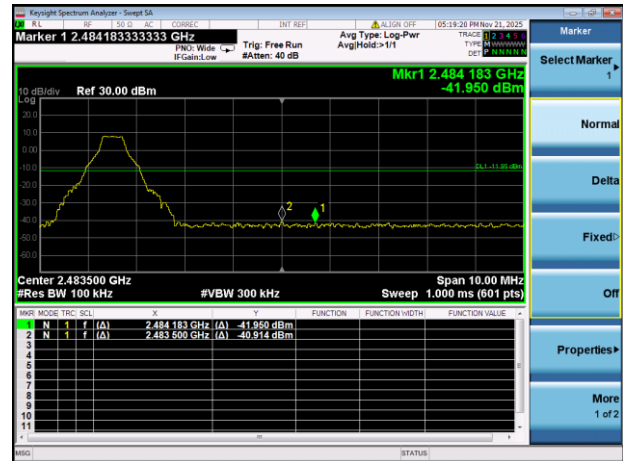
GFSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



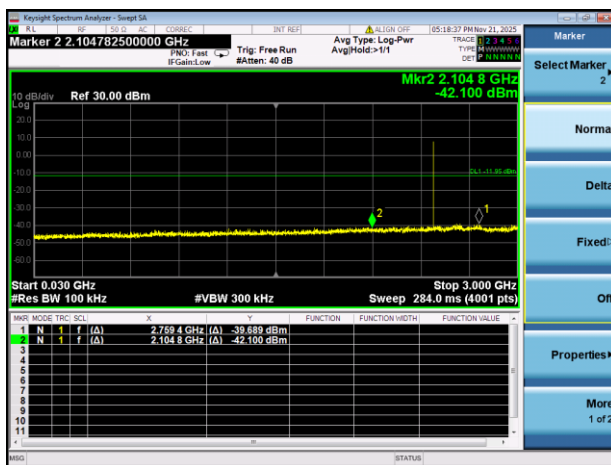
GFSK HIGH CHANNEL, CARRIER LEVEL



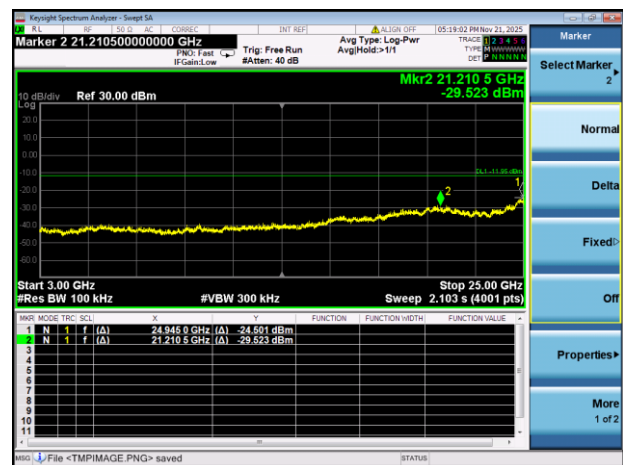
GFSK HIGH CHANNEL, BAND EDGE



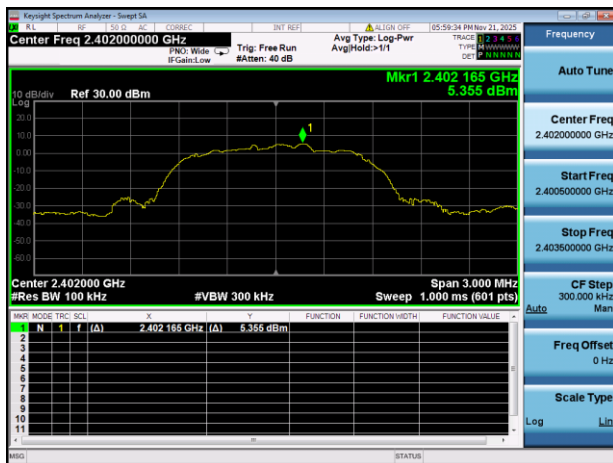
GFSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



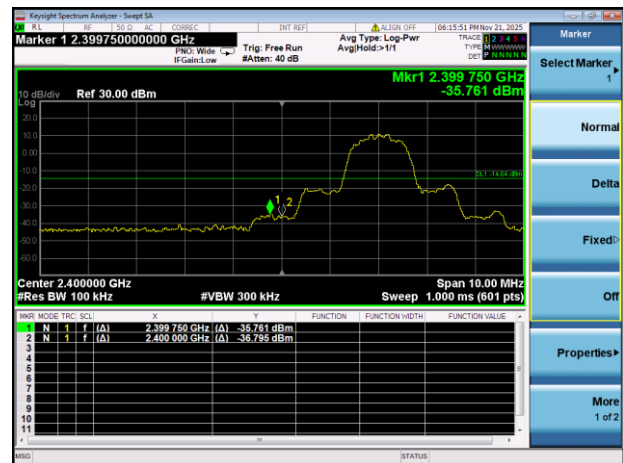
GFSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



8-DPSK LOW CHANNEL, CARRIER LEVEL

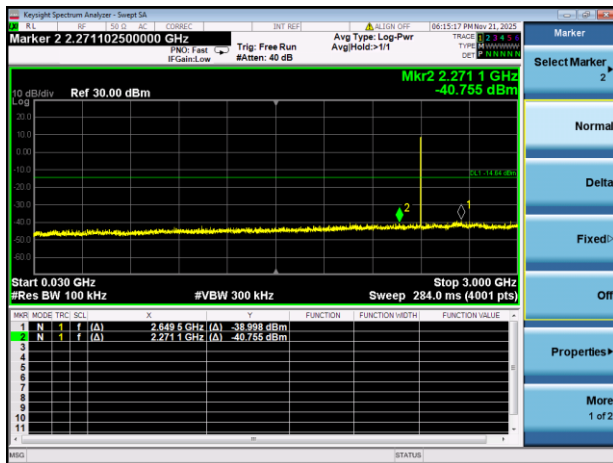


8-DPSK LOW CHANNEL, BAND EDGE



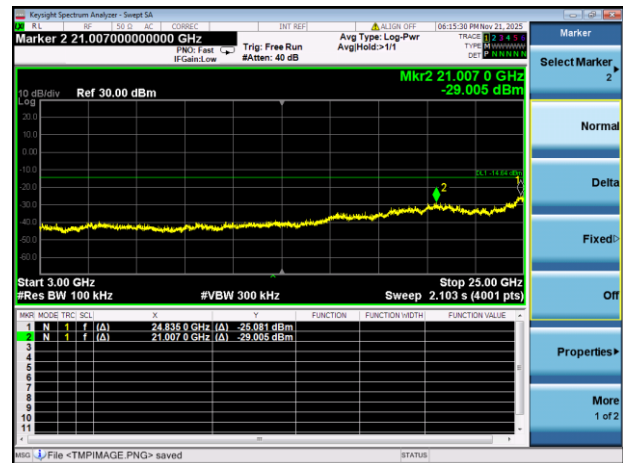
8-DPSK LOW CHANNEL, SPURIOUS

30 MHz ~ 3 GHz

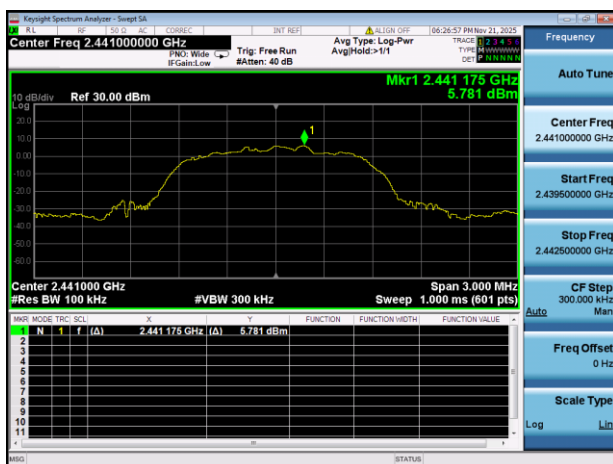


8-DPSK LOW CHANNEL, SPURIOUS

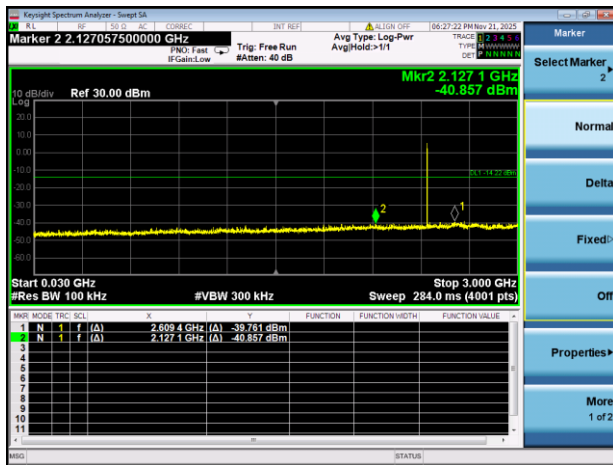
3 GHz ~ 25 GHz



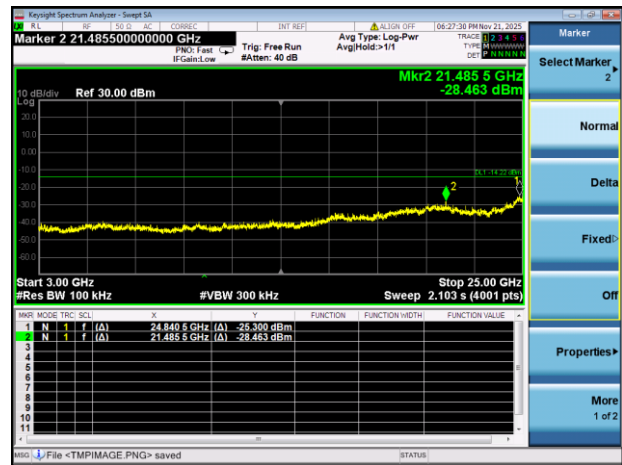
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



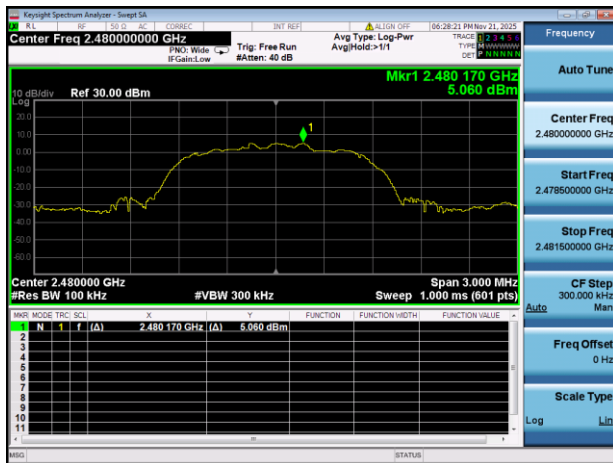
8-DPSK MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



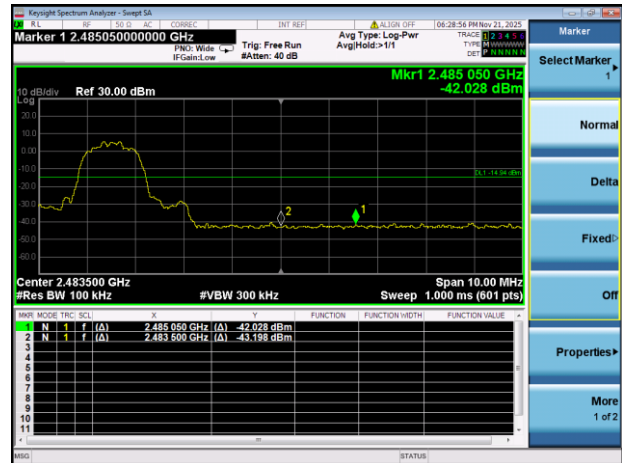
8-DPSK MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



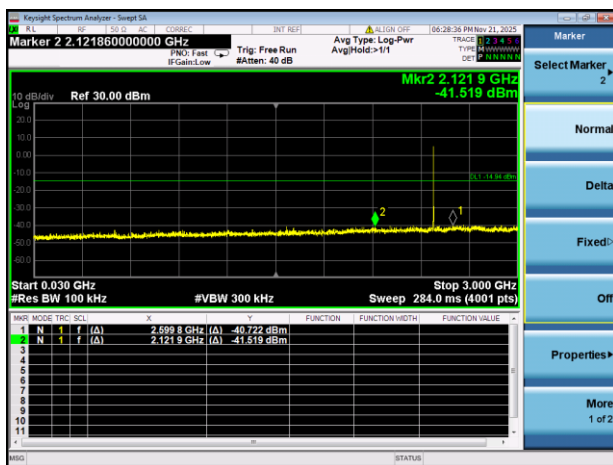
8-DPSK HIGH CHANNEL, CARRIER LEVEL



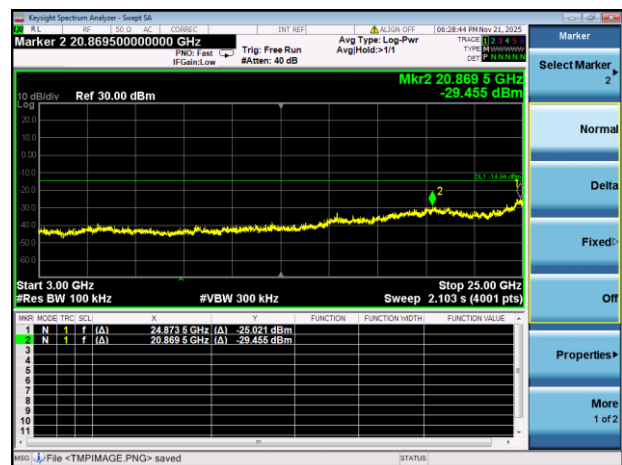
8-DPSK HIGH CHANNEL, BAND EDGE



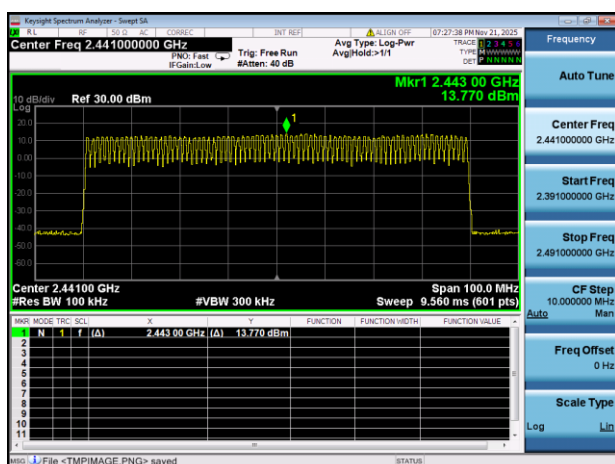
8-DPSK HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



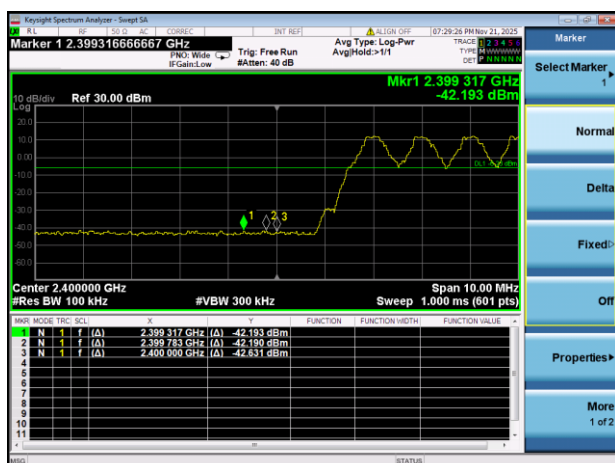
8-DPSK HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



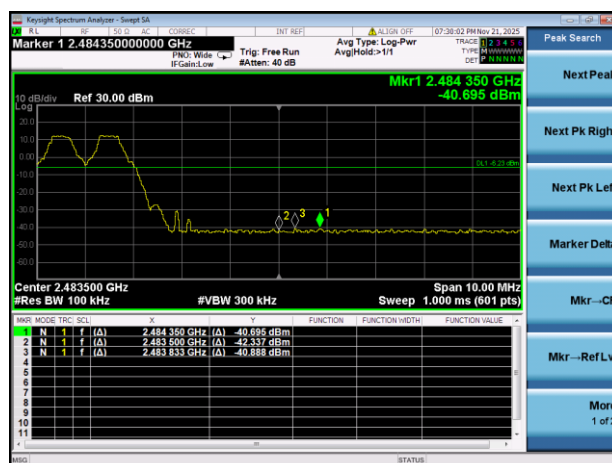
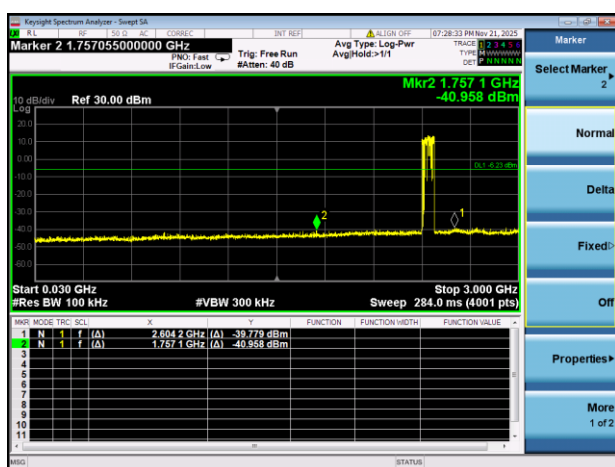
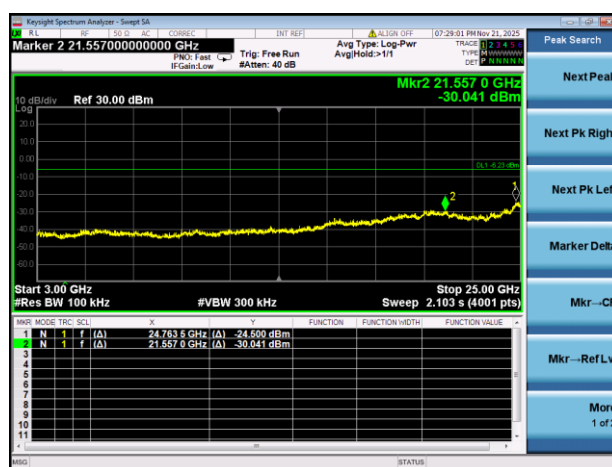
GFSK HOPPING, CARRIER LEVEL



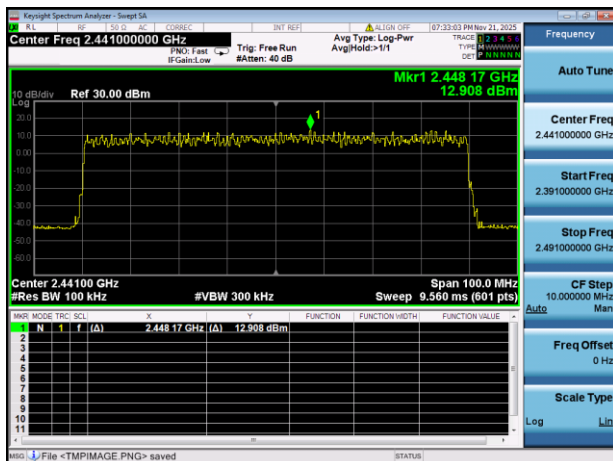
GFSK HOPPING BAND EDGE (LOW)



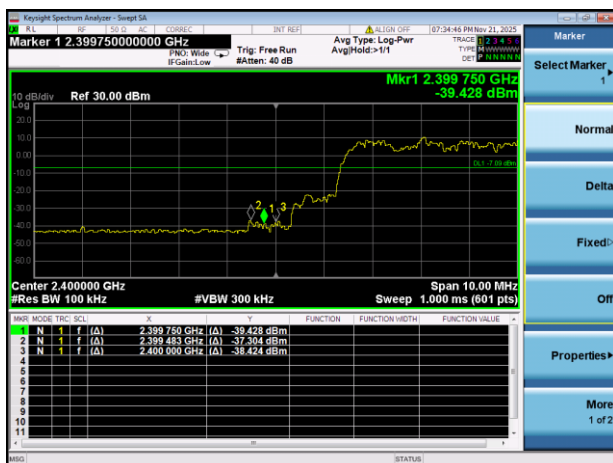
GFSK HOPPING BAND EDGE (HIGH)

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

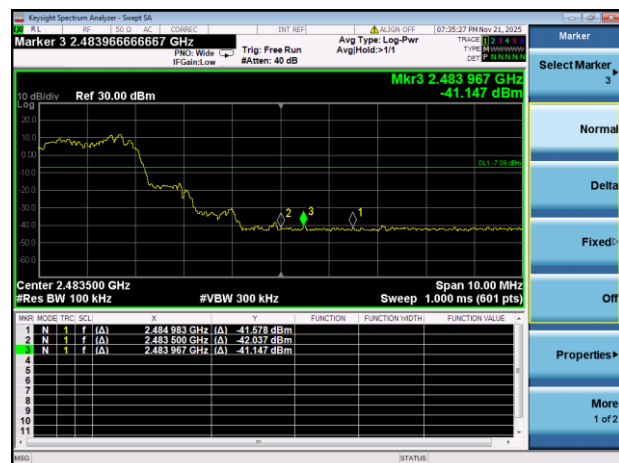
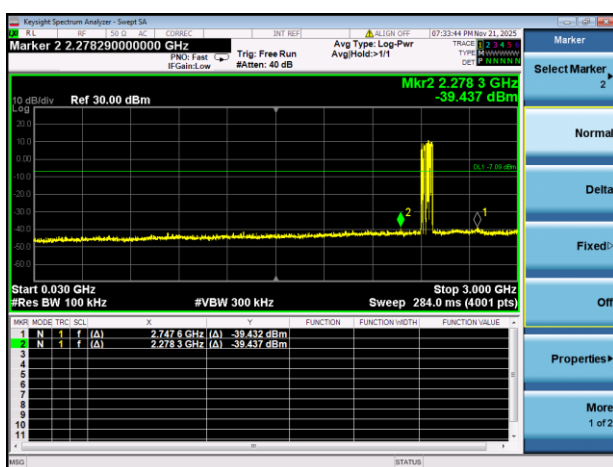
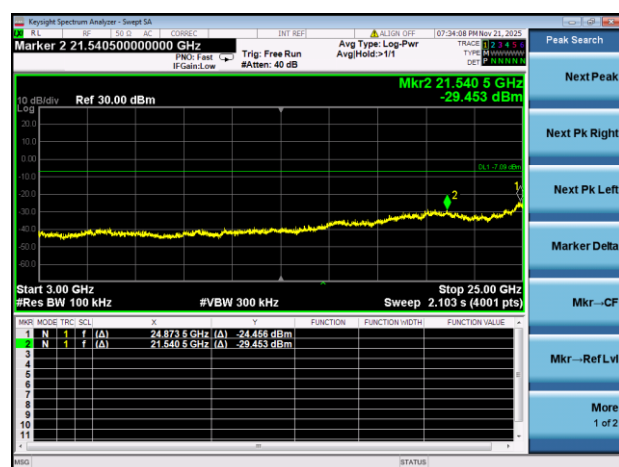
8-DPSK HOPPING, CARRIER LEVEL



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 Emission

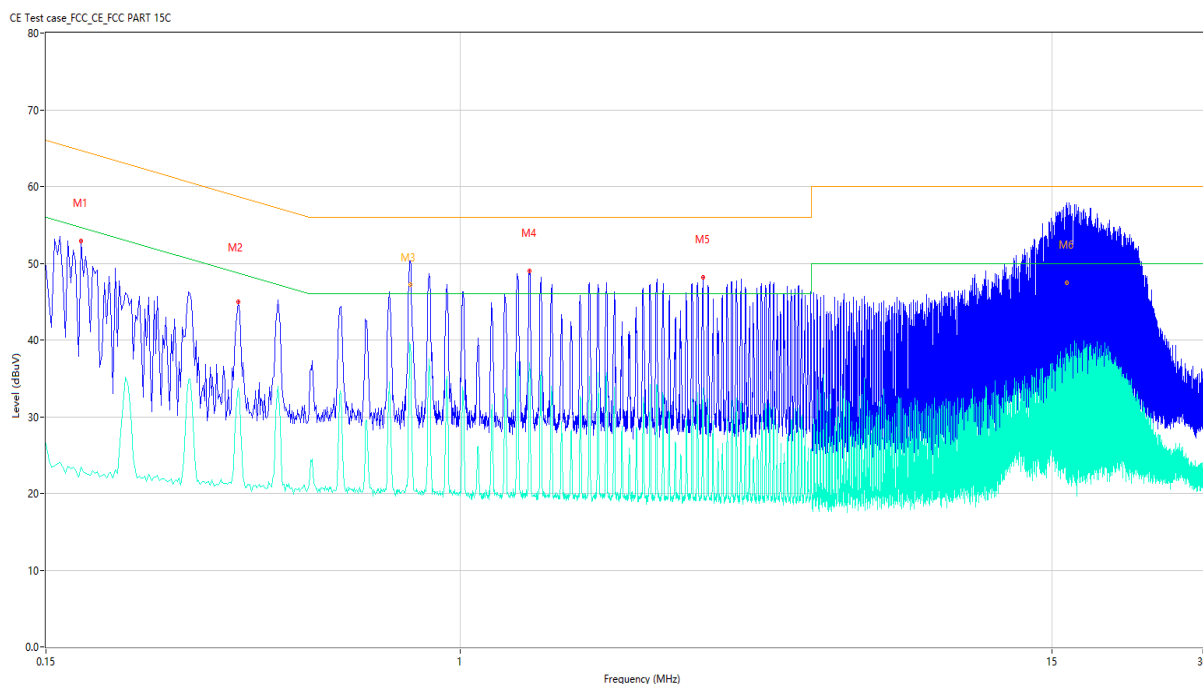
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

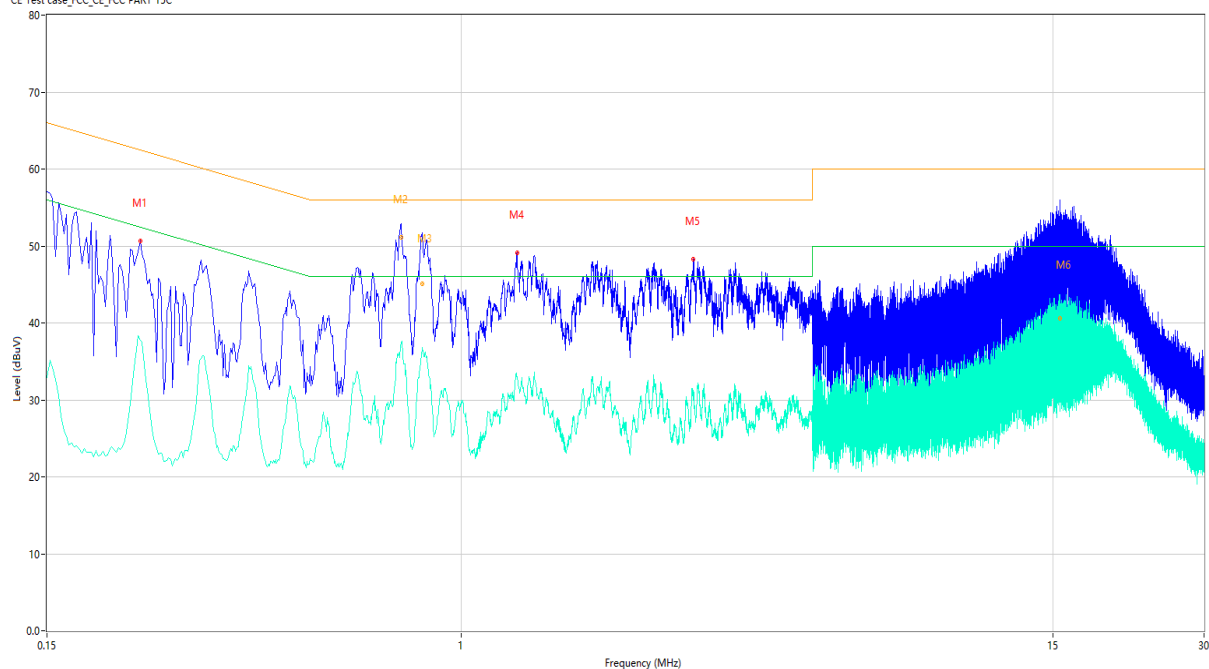


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.176	52.85	10.09	64.67	11.82	Peak	L	Pass
1**	0.176	23.46	10.09	54.67	31.21	AV	L	Pass
2	0.362	45.02	10.13	58.68	13.66	Peak	L	Pass
2**	0.362	33.72	10.13	48.68	14.96	AV	L	Pass
3	0.796	49.90	10.22	56.00	6.10	Peak	L	N/A
3*	0.796	47.22	10.22	56.00	8.78	QP	L	Pass
3**	0.796	39.40	10.22	46.00	6.60	AV	L	Pass
4	1.372	49.01	10.25	56.00	6.99	Peak	L	Pass
4**	1.372	37.00	10.25	46.00	9.00	AV	L	Pass
5	3.040	48.18	10.38	56.00	7.82	Peak	L	Pass
5**	3.040	31.65	10.38	46.00	14.35	AV	L	Pass
6	16.072	58.25	11.19	60.00	1.75	Peak	L	N/A

6*	16.072	47.46	11.19	60.00	12.54	QP	L	Pass
6**	16.072	35.30	11.19	50.00	14.70	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	0.230	50.63	10.12	62.45	11.82	Peak	N	Pass
1**	0.230	37.77	10.12	52.45	14.68	AV	N	Pass
2	0.760	54.53	10.22	56.00	1.47	Peak	N	N/A
2*	0.760	51.17	10.22	56.00	4.83	QP	N	Pass
2**	0.760	37.36	10.22	46.00	8.64	AV	N	Pass
3	0.836	49.69	10.21	56.00	6.31	Peak	N	N/A
3*	0.836	45.14	10.21	56.00	10.86	QP	N	Pass
3**	0.836	36.78	10.21	46.00	9.22	AV	N	Pass
4	1.292	49.06	10.23	56.00	6.94	Peak	N	Pass
4**	1.292	33.04	10.23	46.00	12.96	AV	N	Pass
5	2.896	48.24	10.38	56.00	7.76	Peak	N	Pass
5**	2.896	31.20	10.38	46.00	14.80	AV	N	Pass
6	15.492	50.64	11.19	60.00	9.36	Peak	N	N/A
6*	15.492	40.63	11.19	60.00	19.37	QP	N	Pass
6**	15.492	38.57	11.19	50.00	11.43	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.

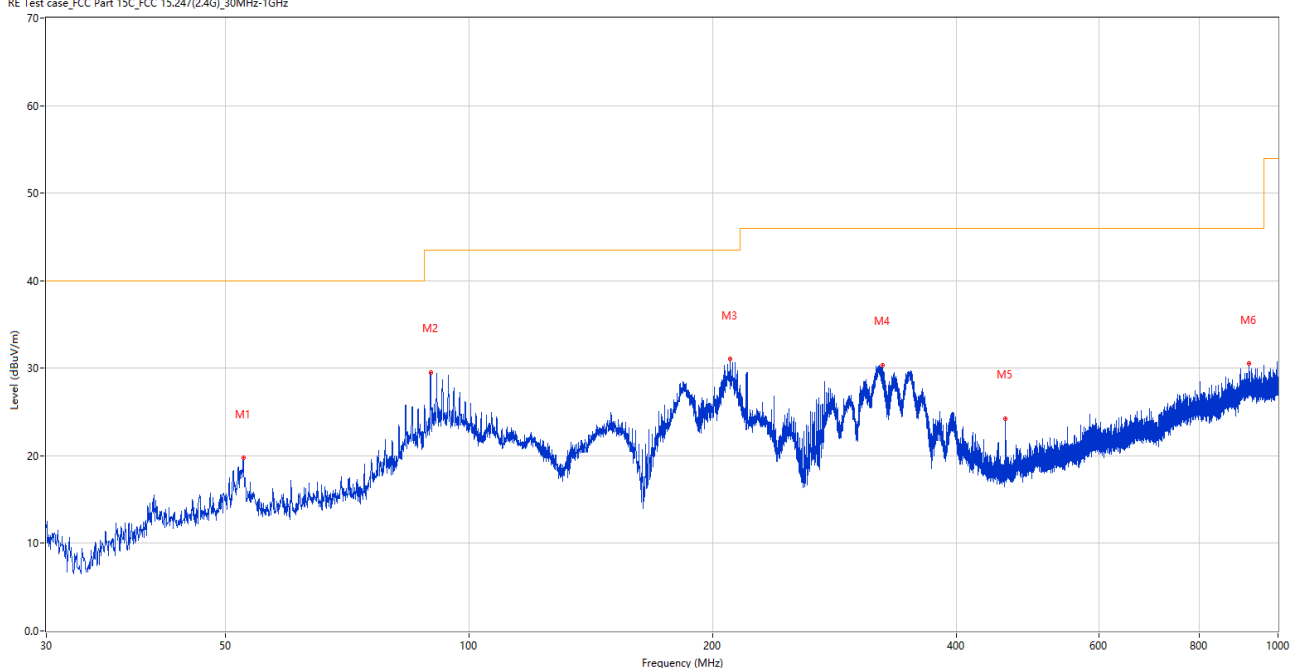
Note 4: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

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

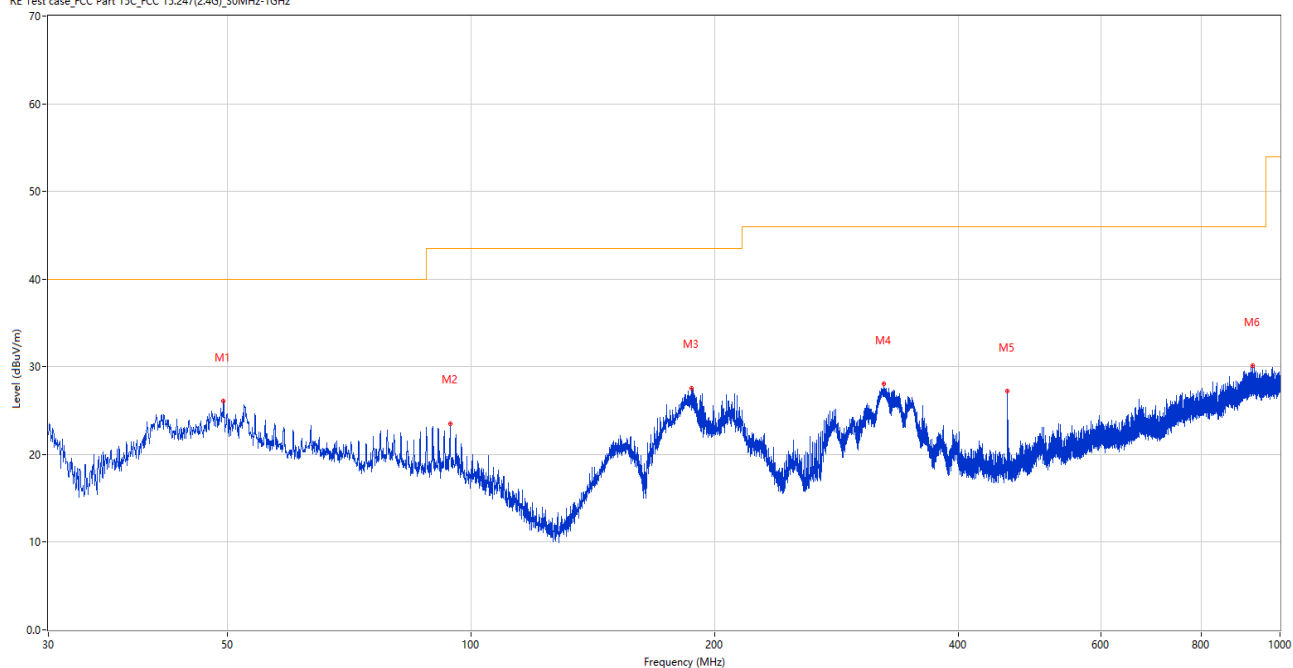
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.553	19.79	-25.77	40.0	20.21	Peak	0.00	100	Horizontal	Pass
2	89.606	29.53	-29.12	43.5	13.97	Peak	159.00	200	Horizontal	Pass
3	210.178	31.04	-27.08	43.5	12.46	Peak	268.00	100	Horizontal	Pass
4	324.783	30.36	-23.37	46.0	15.64	Peak	280.00	100	Horizontal	Pass
5	460.534	24.27	-19.97	46.0	21.73	Peak	272.00	100	Horizontal	Pass
6	920.460	30.51	-9.21	46.0	15.49	Peak	349.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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

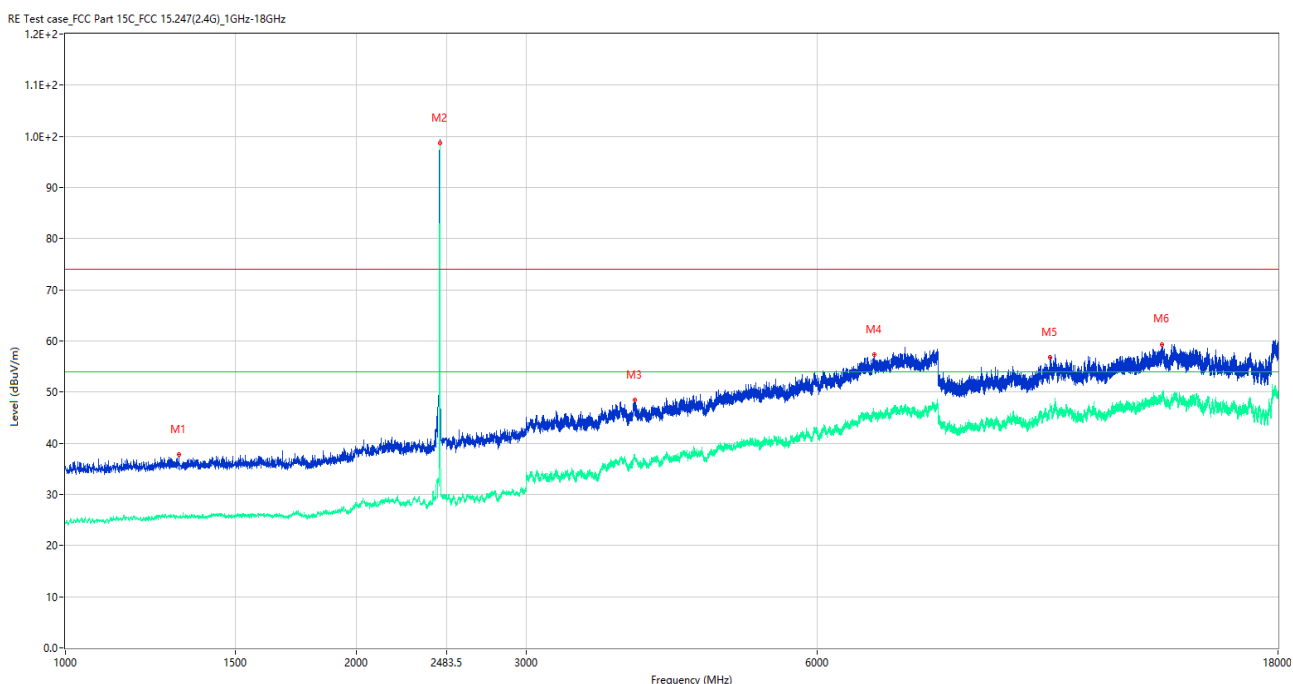


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.400	26.07	-25.70	40.0	13.93	Peak	341.00	100	Vertical	Pass
2	94.165	23.47	-27.80	43.5	20.03	Peak	136.00	100	Vertical	Pass
3	187.431	27.57	-27.62	43.5	15.93	Peak	302.00	100	Vertical	Pass
4	323.474	28.02	-23.43	46.0	17.98	Peak	162.00	200	Vertical	Pass
5	460.534	27.21	-19.97	46.0	18.79	Peak	202.00	100	Vertical	Pass
6	925.116	30.12	-9.13	46.0	15.88	Peak	15.00	200	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.

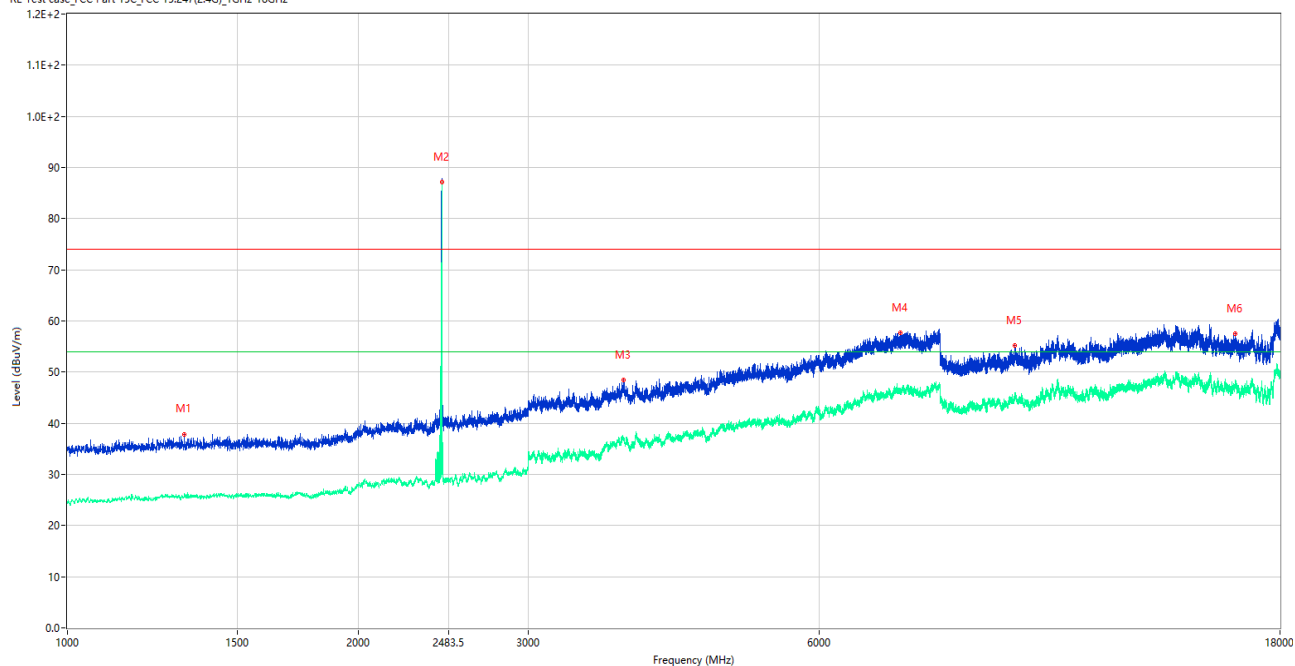
GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1311.000	37.78	-17.36	74.0	36.22	Peak	360.00	150	Horizontal	Pass
1**	1311.000	25.58	-17.36	54.0	28.42	AV	360.00	150	Horizontal	Pass
2	2441.000	99.44	-13.03	74.0	-25.44	Peak	33.00	150	Horizontal	N/A
2**	2441.000	96.28	-13.03	54.0	-42.28	AV	33.00	150	Horizontal	N/A
3	3886.500	48.42	-2.92	74.0	25.58	Peak	290.00	150	Horizontal	Pass
3**	3886.500	36.87	-2.92	54.0	17.13	AV	290.00	150	Horizontal	Pass
4	6871.000	57.35	4.59	74.0	16.65	Peak	122.00	150	Horizontal	Pass
4**	6871.000	45.50	4.59	54.0	8.50	AV	122.00	150	Horizontal	Pass
5	10457.000	56.75	3.93	74.0	17.25	Peak	285.00	150	Horizontal	Pass
5**	10457.000	46.81	3.93	54.0	7.19	AV	285.00	150	Horizontal	Pass
6	13663.000	59.35	9.03	74.0	14.65	Peak	242.00	150	Horizontal	Pass
6**	13663.000	48.88	9.03	54.0	5.12	AV	242.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

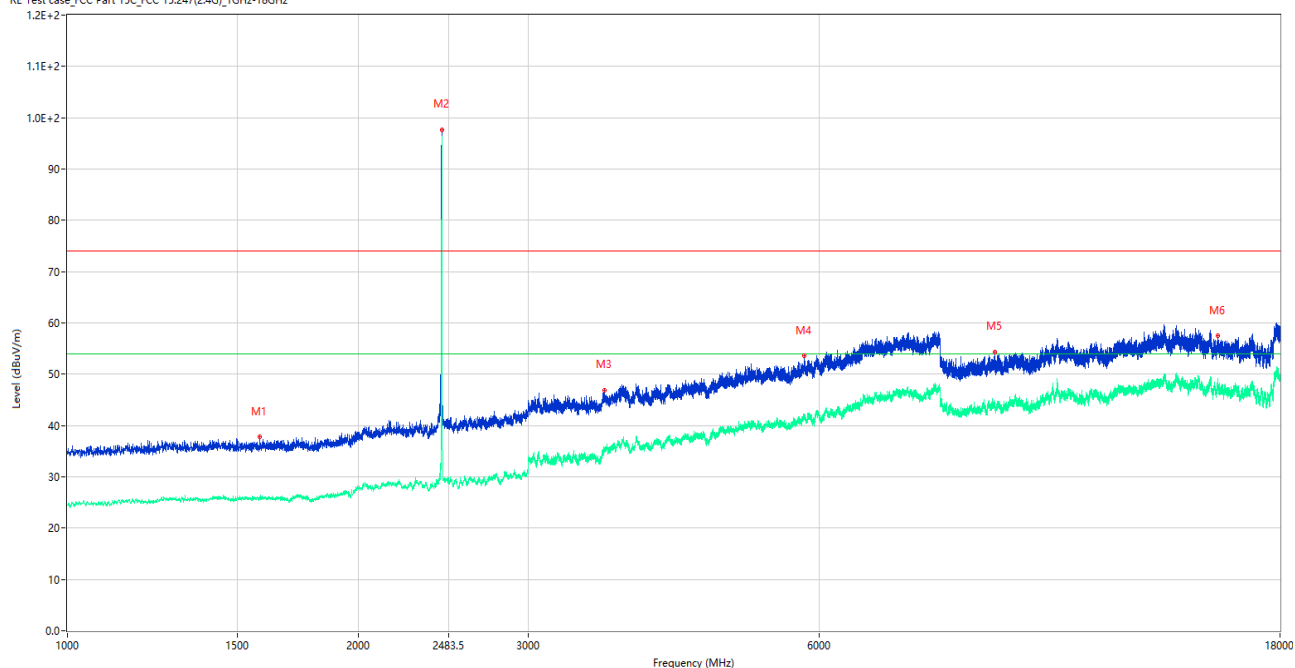
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1321.500	37.87	-17.33	74.0	36.13	Peak	154.00	150	Vertical	Pass
1**	1321.500	25.79	-17.33	54.0	28.21	AV	154.00	150	Vertical	Pass
2	2441.000	87.87	-13.03	74.0	-13.87	Peak	290.00	150	Vertical	N/A
2**	2441.000	84.78	-13.03	54.0	-30.78	AV	290.00	150	Vertical	N/A
3	3762.000	48.43	-3.03	74.0	25.57	Peak	303.00	150	Vertical	Pass
3**	3762.000	37.04	-3.03	54.0	16.96	AV	303.00	150	Vertical	Pass
4	7277.000	57.73	5.36	74.0	16.27	Peak	303.00	150	Vertical	Pass
4**	7277.000	46.56	5.36	54.0	7.44	AV	303.00	150	Vertical	Pass
5	9563.500	55.29	3.17	74.0	18.71	Peak	18.00	150	Vertical	Pass
5**	9563.500	45.19	3.17	54.0	8.81	AV	18.00	150	Vertical	Pass
6	16173.500	57.54	6.13	74.0	16.46	Peak	325.00	150	Vertical	Pass
6**	16173.500	47.50	6.13	54.0	6.50	AV	325.00	150	Vertical	Pass

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

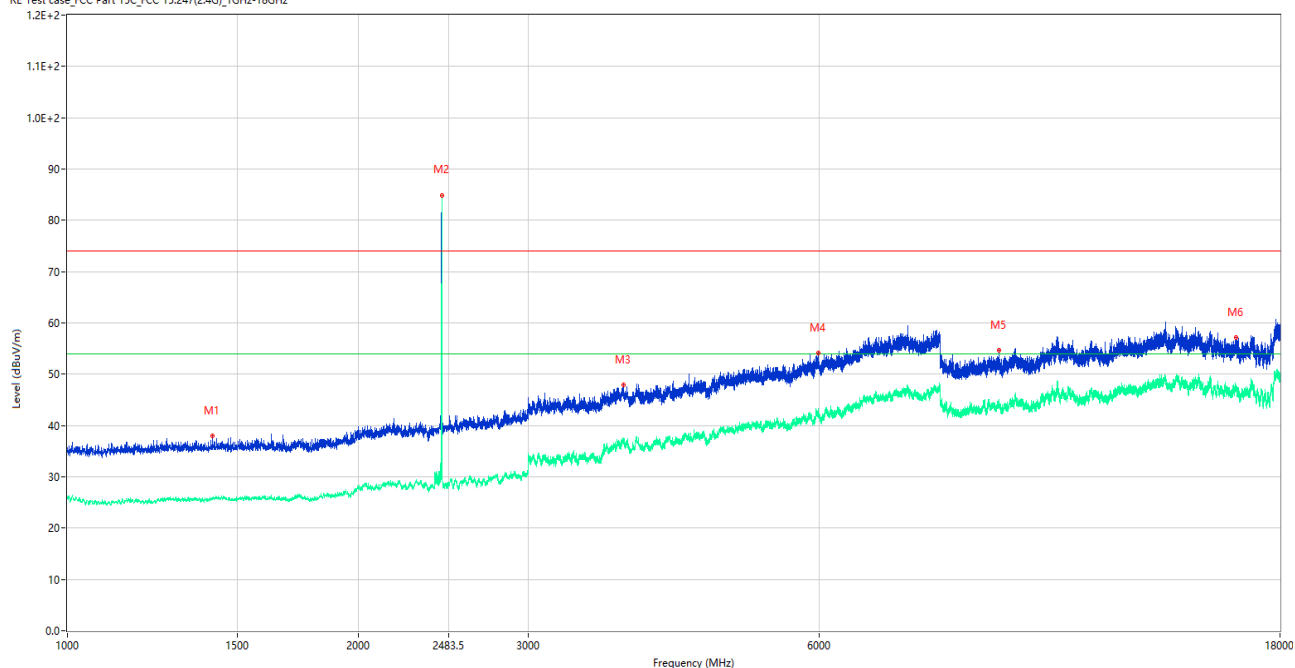
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1582.500	37.82	-17.40	74.0	36.18	Peak	281.00	150	Horizontal	Pass
1**	1582.500	25.76	-17.40	54.0	28.24	AV	281.00	150	Horizontal	Pass
2	2440.500	97.70	-13.01	74.0	-23.70	Peak	305.00	150	Horizontal	N/A
2**	2440.500	85.77	-13.01	54.0	-31.77	AV	305.00	150	Horizontal	N/A
3	3595.500	46.93	-4.95	74.0	27.07	Peak	2.00	150	Horizontal	Pass
3**	3595.500	35.11	-4.95	54.0	18.89	AV	2.00	150	Horizontal	Pass
4	5788.000	53.52	0.95	74.0	20.48	Peak	297.00	150	Horizontal	Pass
4**	5788.000	41.33	0.95	54.0	12.67	AV	297.00	150	Horizontal	Pass
5	9124.000	54.34	2.19	74.0	19.66	Peak	325.00	150	Horizontal	Pass
5**	9124.000	43.57	2.19	54.0	10.43	AV	325.00	150	Horizontal	Pass
6	15512.001	57.59	6.66	74.0	16.41	Peak	59.00	150	Horizontal	Pass
6**	15512.001	47.58	6.66	54.0	6.42	AV	59.00	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	1413.000	37.92	-17.43	74.0	36.08	Peak	289.00	150	Vertical	Pass
1**	1413.000	25.82	-17.43	54.0	28.18	AV	289.00	150	Vertical	Pass
2	2441.000	85.10	-13.03	74.0	-11.10	Peak	287.00	150	Vertical	N/A
2**	2441.000	82.35	-13.03	54.0	-28.35	AV	287.00	150	Vertical	N/A
3	3761.000	47.89	-2.99	74.0	26.11	Peak	179.00	150	Vertical	Pass
3**	3761.000	36.86	-2.99	54.0	17.14	AV	179.00	150	Vertical	Pass
4	5992.500	54.08	1.48	74.0	19.92	Peak	95.00	150	Vertical	Pass
4**	5992.500	42.11	1.48	54.0	11.89	AV	95.00	150	Vertical	Pass
5	9205.500	54.59	2.11	74.0	19.41	Peak	294.00	150	Vertical	Pass
5**	9205.500	43.58	2.11	54.0	10.42	AV	294.00	150	Vertical	Pass
6	16195.500	57.13	6.35	74.0	16.87	Peak	217.00	150	Vertical	Pass
6**	16195.500	47.37	6.35	54.0	6.63	AV	217.00	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.

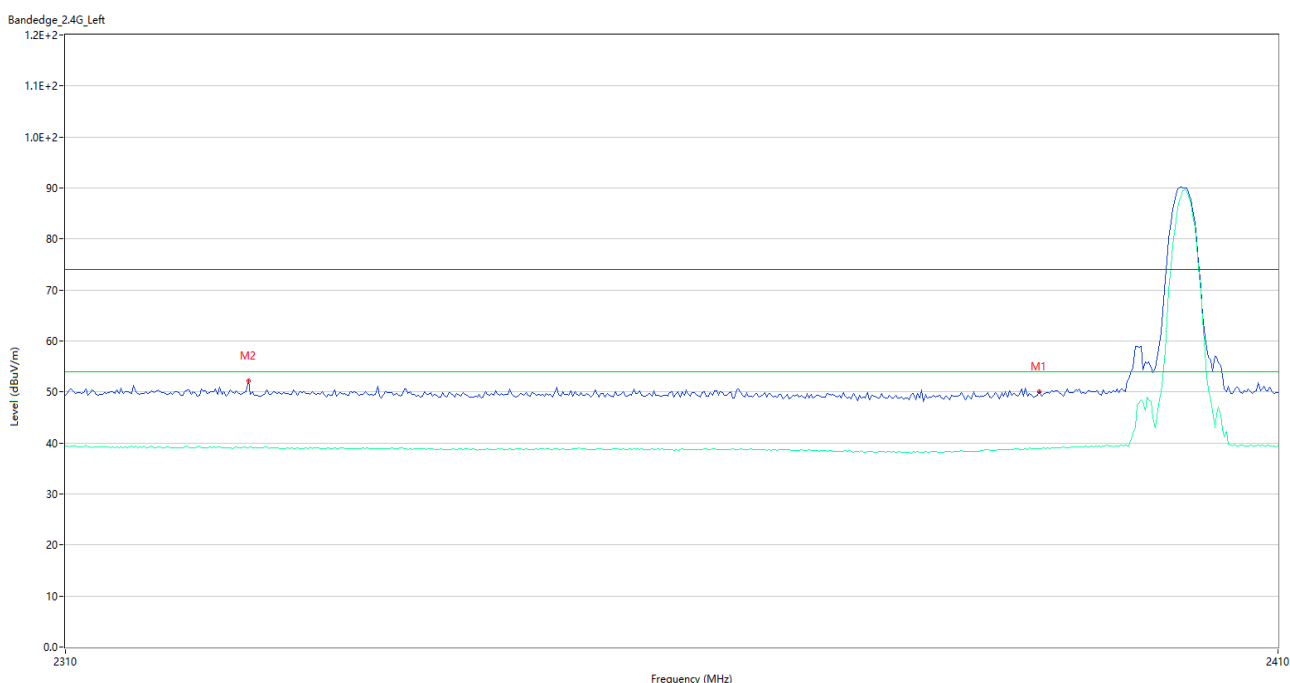
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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.

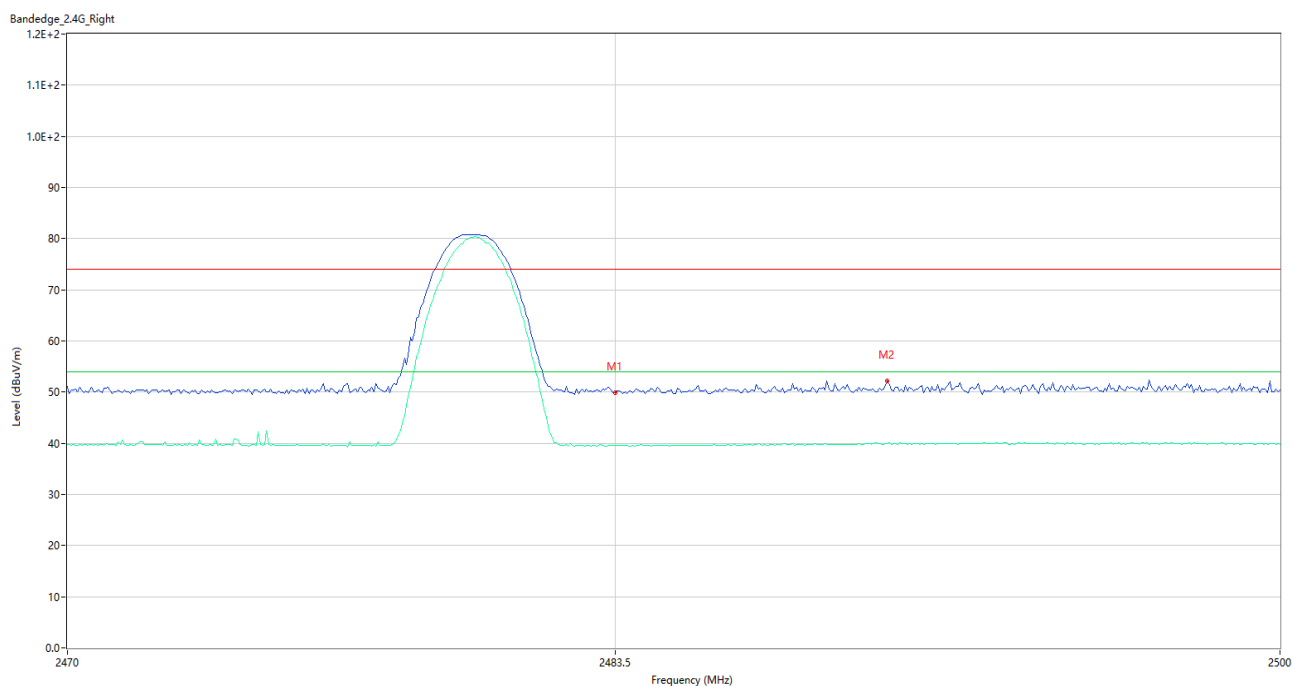
Test Data and Plots

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	50.11	-3.58	74.0	23.89	Peak	84.21	150	Vertical	Pass
1**	2390.000	38.83	-3.58	54.0	15.17	AV	84.21	150	Vertical	Pass
2	2324.833	52.26	-3.74	74.0	21.74	Peak	259.00	150	Vertical	Pass
2**	2324.833	39.01	-3.74	54.0	14.99	AV	259.00	150	Vertical	Pass

GFSK HIGH CHANNEL



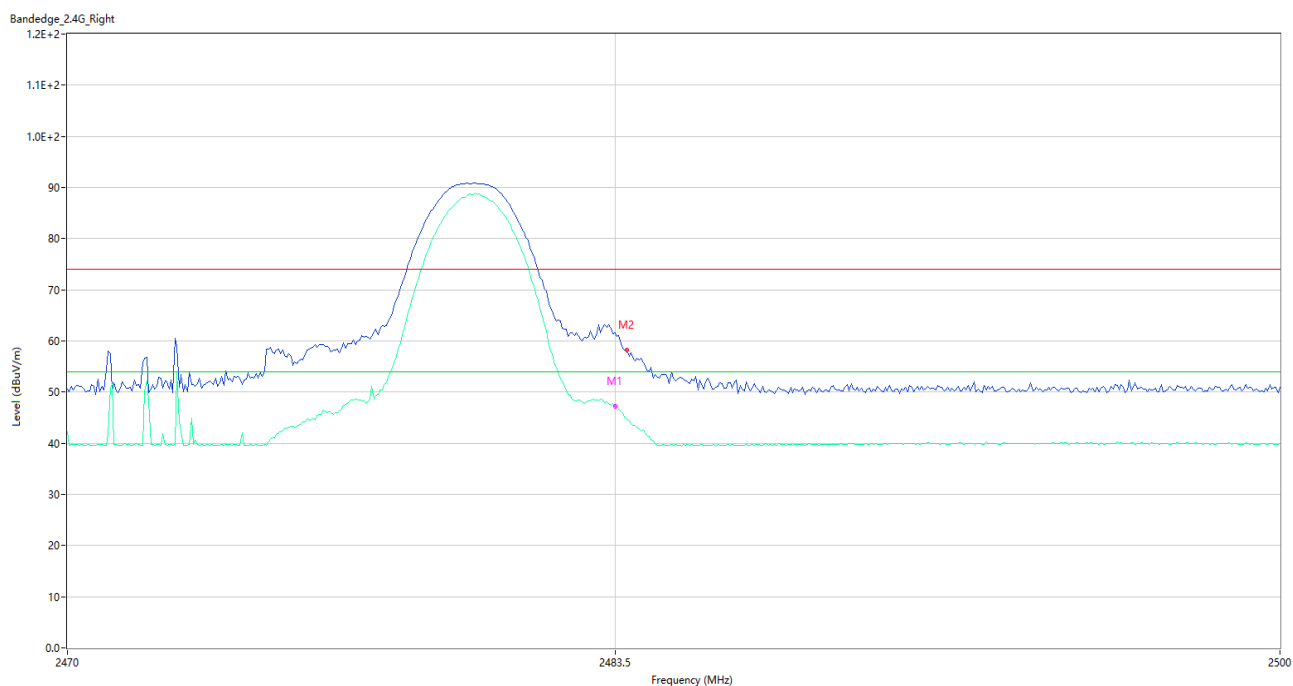
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	49.82	-2.55	74.0	24.18	Peak	150.00	150	Vertical	Pass
1**	2483.500	39.55	-2.55	54.0	14.45	AV	150.00	150	Vertical	Pass
2	2490.250	52.26	-2.46	74.0	21.74	Peak	17.00	150	Vertical	Pass
2**	2490.250	39.90	-2.46	54.0	14.10	AV	17.00	150	Vertical	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	49.82	-3.58	74.0	24.18	Peak	297.92	150	Vertical	Pass
1**	2390.000	38.94	-3.58	54.0	15.06	AV	297.92	150	Vertical	Pass
2	2374.333	50.52	-3.88	74.0	23.48	Peak	38.00	150	Vertical	Pass
2**	2374.333	38.32	-3.88	54.0	15.68	AV	38.00	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	61.60	-2.55	74.0	12.40	Peak	138.00	150	Horizontal	Pass
1**	2483.500	47.18	-2.55	54.0	6.82	AV	138.00	150	Horizontal	Pass
2	2483.800	58.18	-2.55	74.0	15.82	Peak	143.00	150	Horizontal	Pass
2**	2483.800	44.79	-2.55	54.0	9.21	AV	143.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH25B1270-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH25B1270-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH25B1270-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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--END OF REPORT--