

5.2 Mains Emission

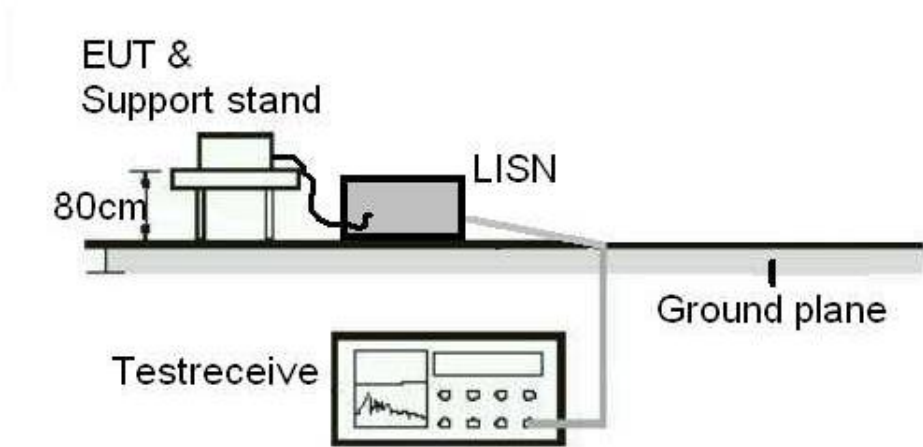
5.2.1 Mains Conducted Emission

Limit

Mains Conducted Emission as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101938	2024/10/22	2025/10/21
EMI Test Receiver	R&S	ESCI	100797	2024/7/23	2025/7/22

Prüfbericht - Nr.: **CN246LQC 001**
Test Report No.

Seite 32 von 32
Page 32 of 32

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

Please refer to Appendix B.

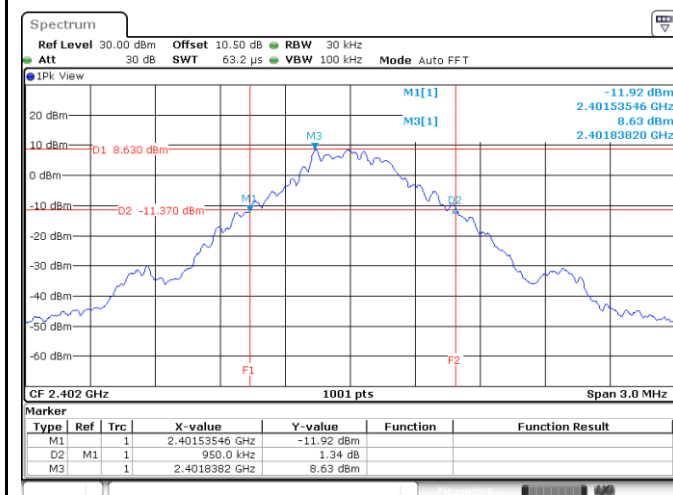
Appendix A: Test Results of Conducted Test

Test Result of 20 dB Bandwidth

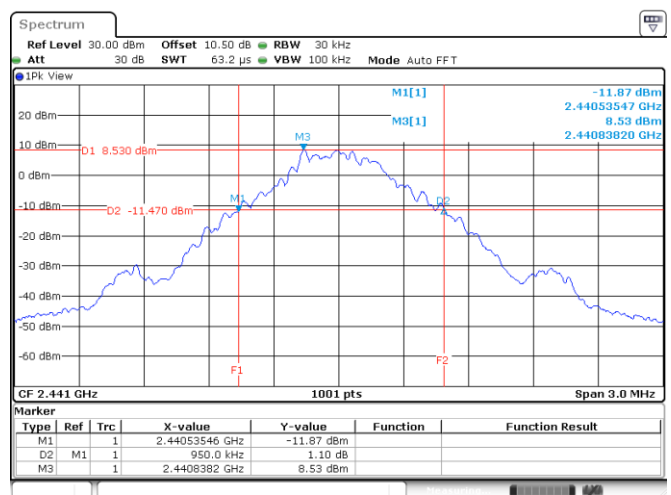
GFSK

Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)
Low Channel	2402	950.00
Middle Channel	2441	950.00
High Channel	2480	950.00

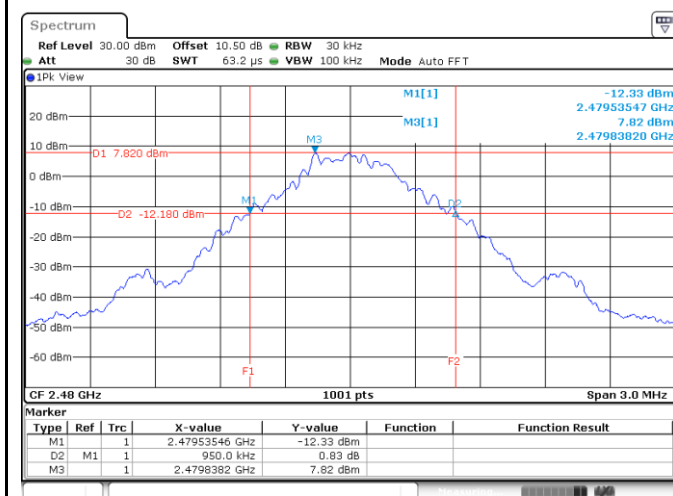
Low Channel



Middle Channel

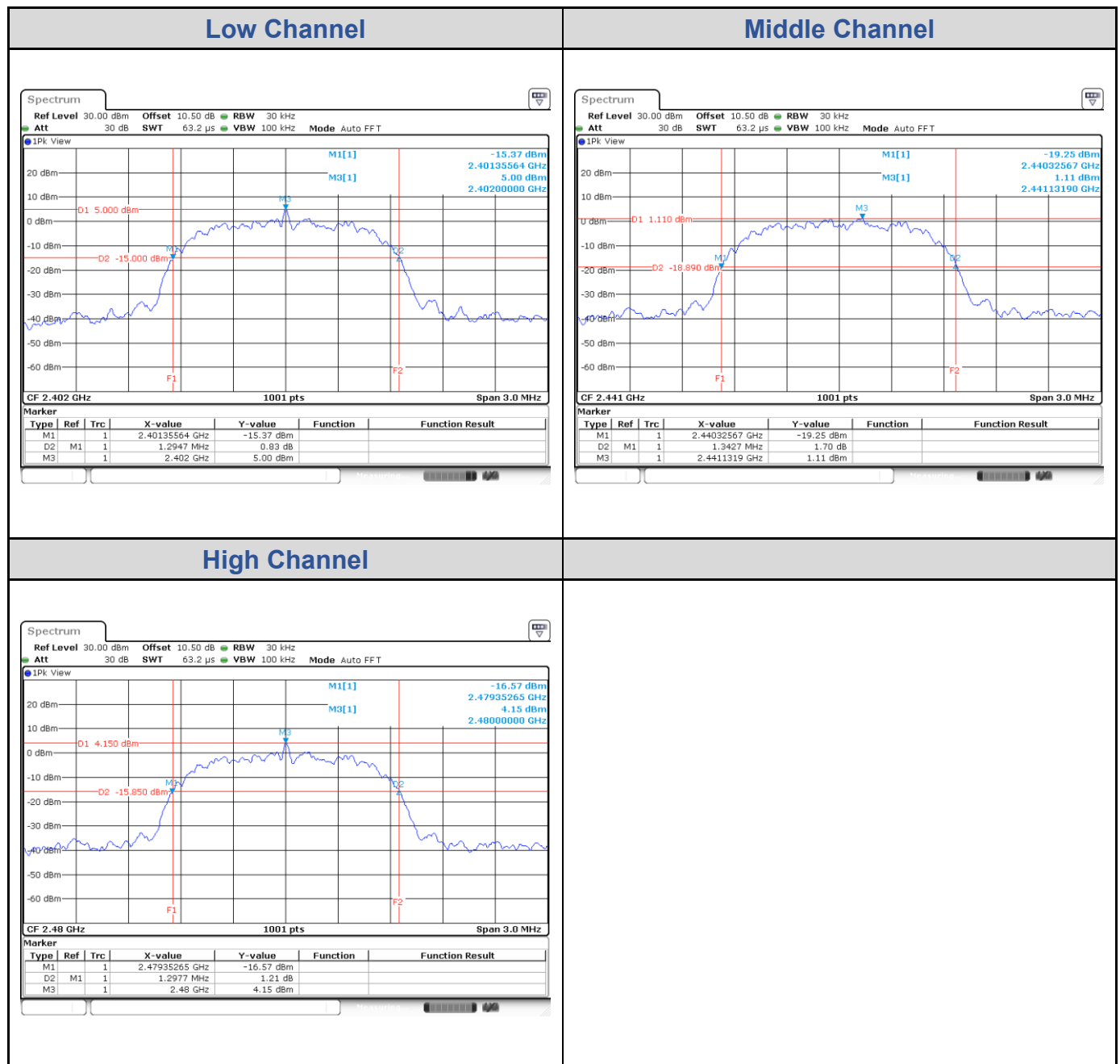


High Channel



8DPSK

Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)
Low Channel	2402	1294.70
Middle Channel	2441	1342.70
High Channel	2480	1297.70

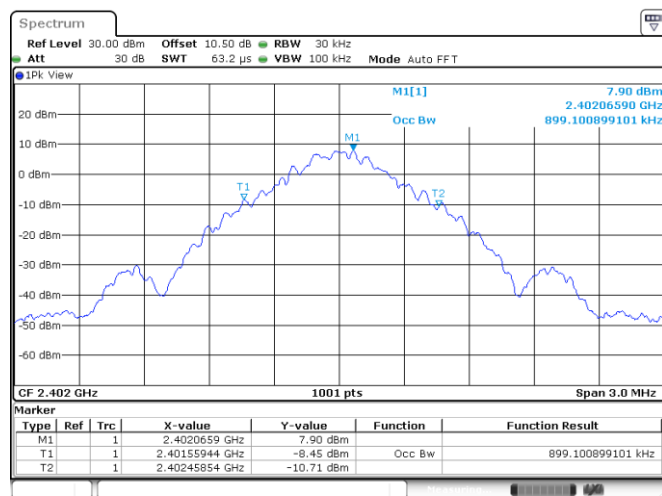


Test Result of 99% Occupied Bandwidth

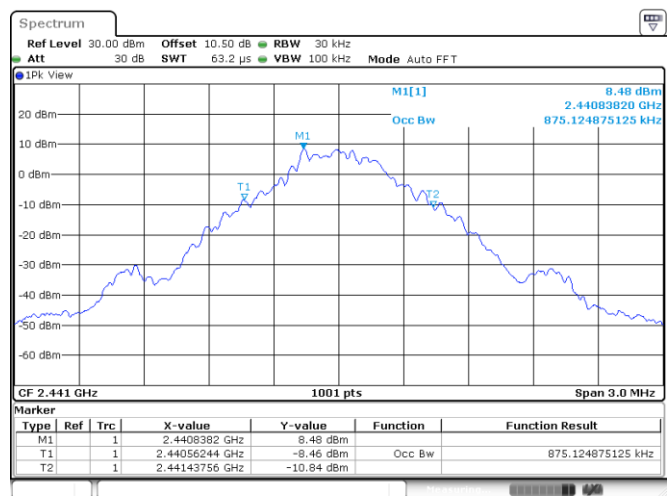
GFSK

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)
Low Channel	2402	899.10
Middle Channel	2441	875.12
High Channel	2480	902.10

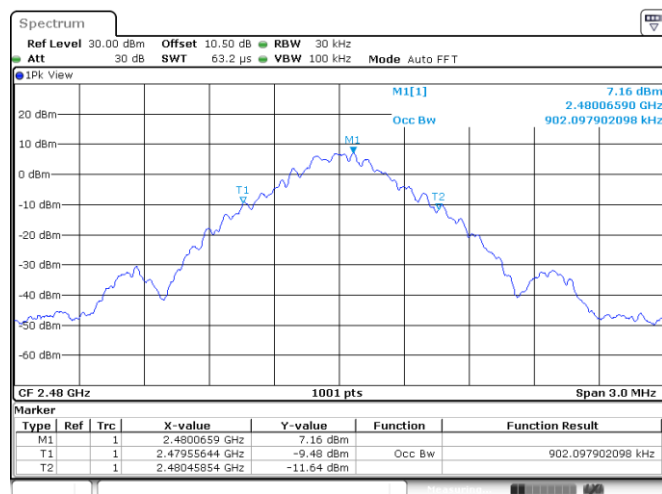
Low Channel



Middle Channel

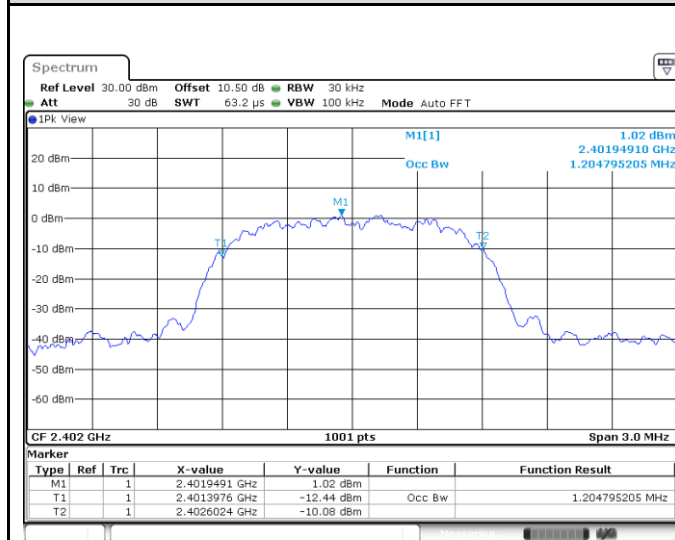
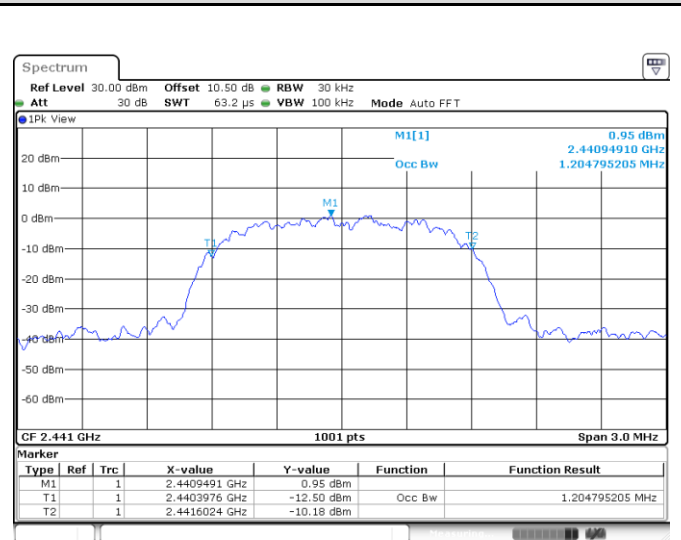
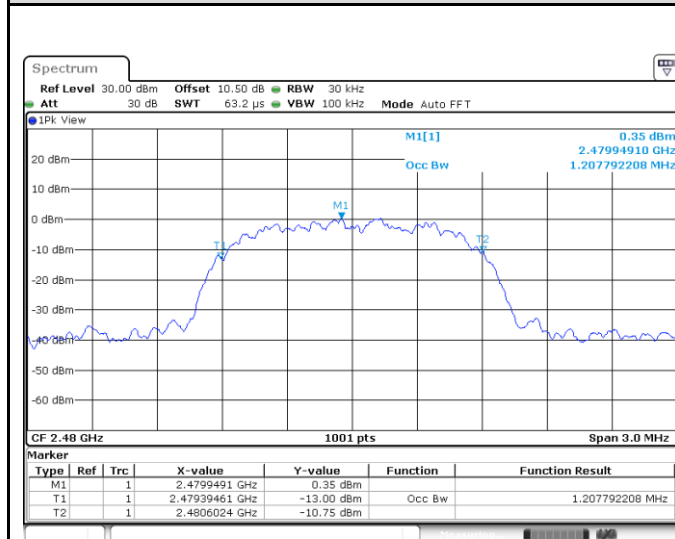


High Channel



8DPSK

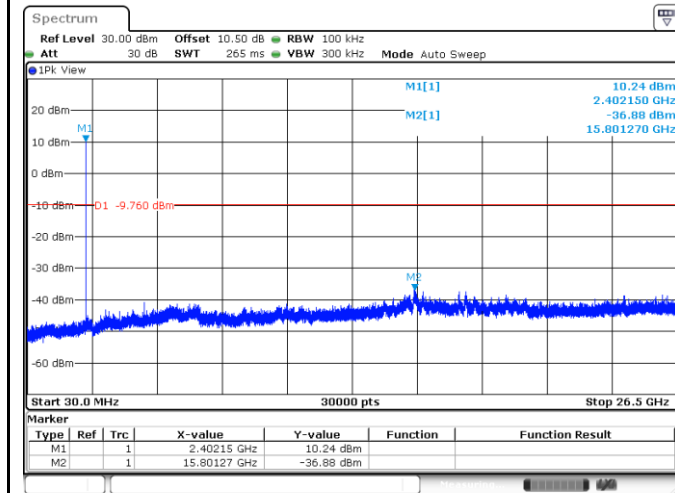
Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)
Low Channel	2402	1204.80
Middle Channel	2441	1204.80
High Channel	2480	1207.79

Low Channel

Middle Channel

High Channel


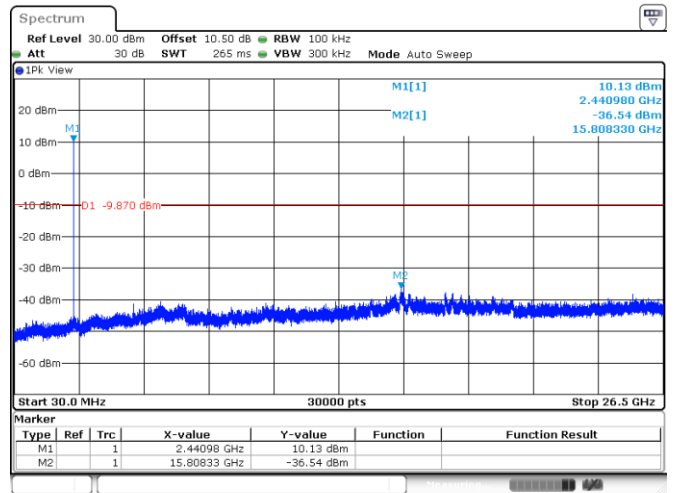
Test Result of Conducted Spurious Emissions, Tx Mode

GFSK

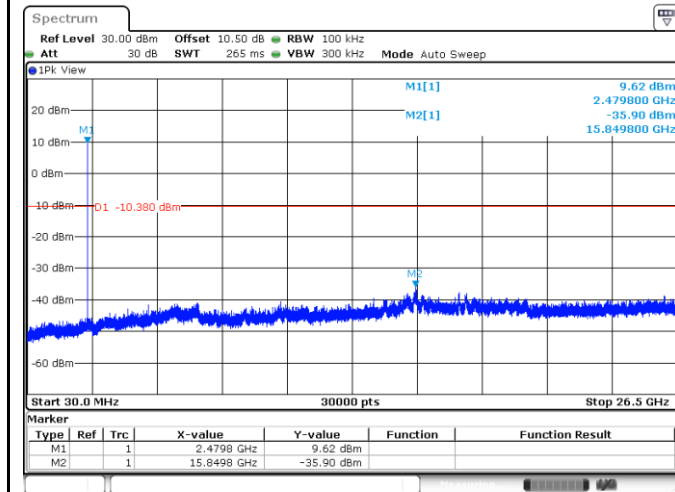
Low Channel

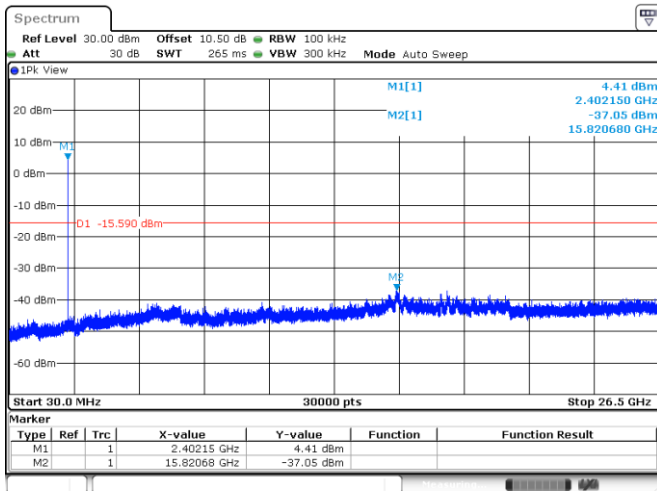
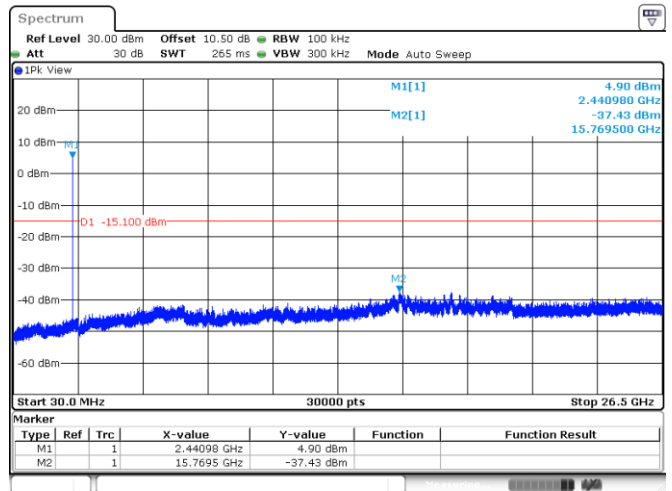
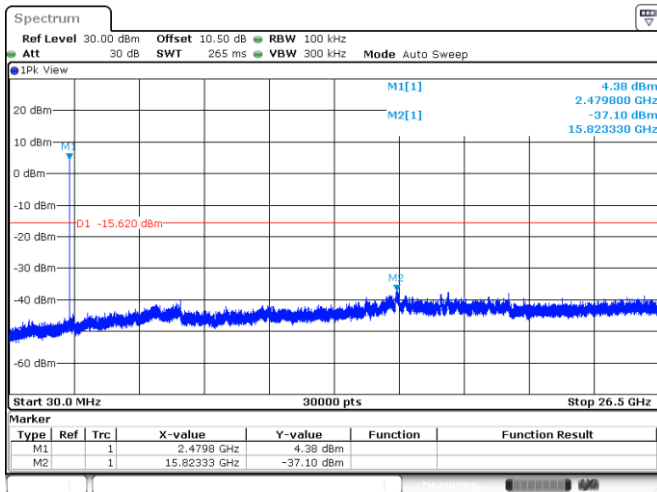


Middle Channel



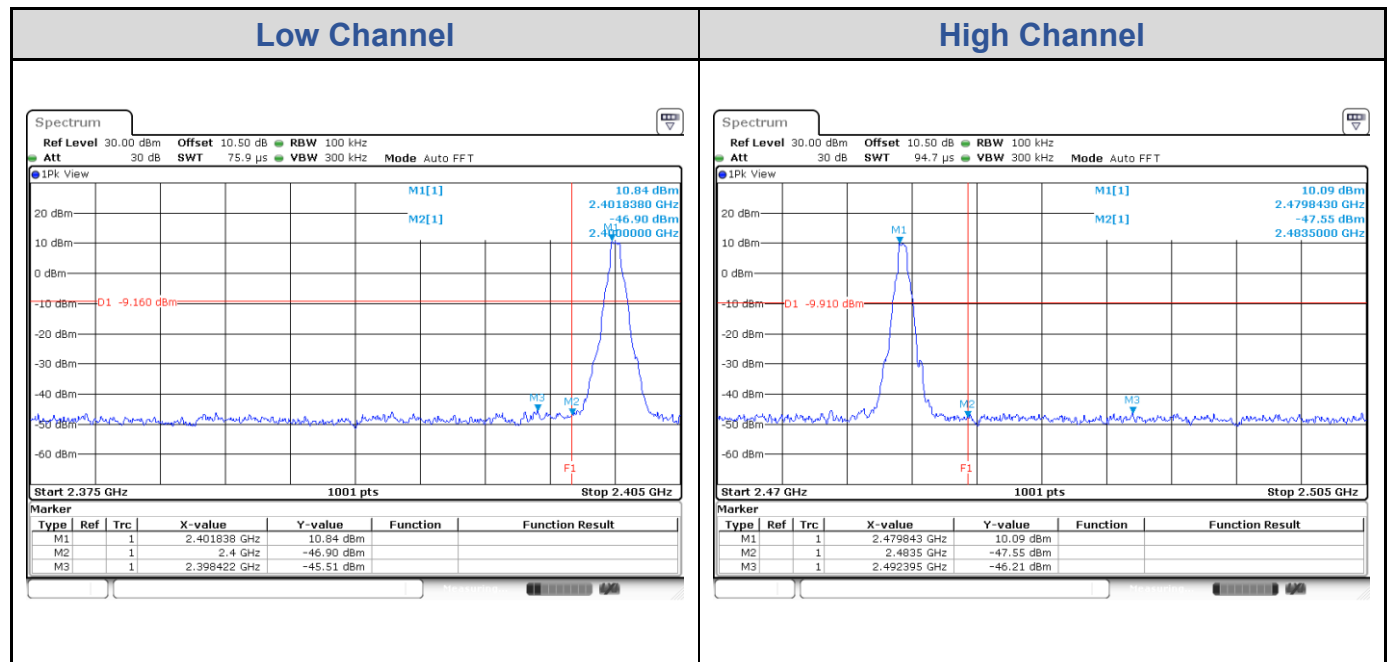
High Channel



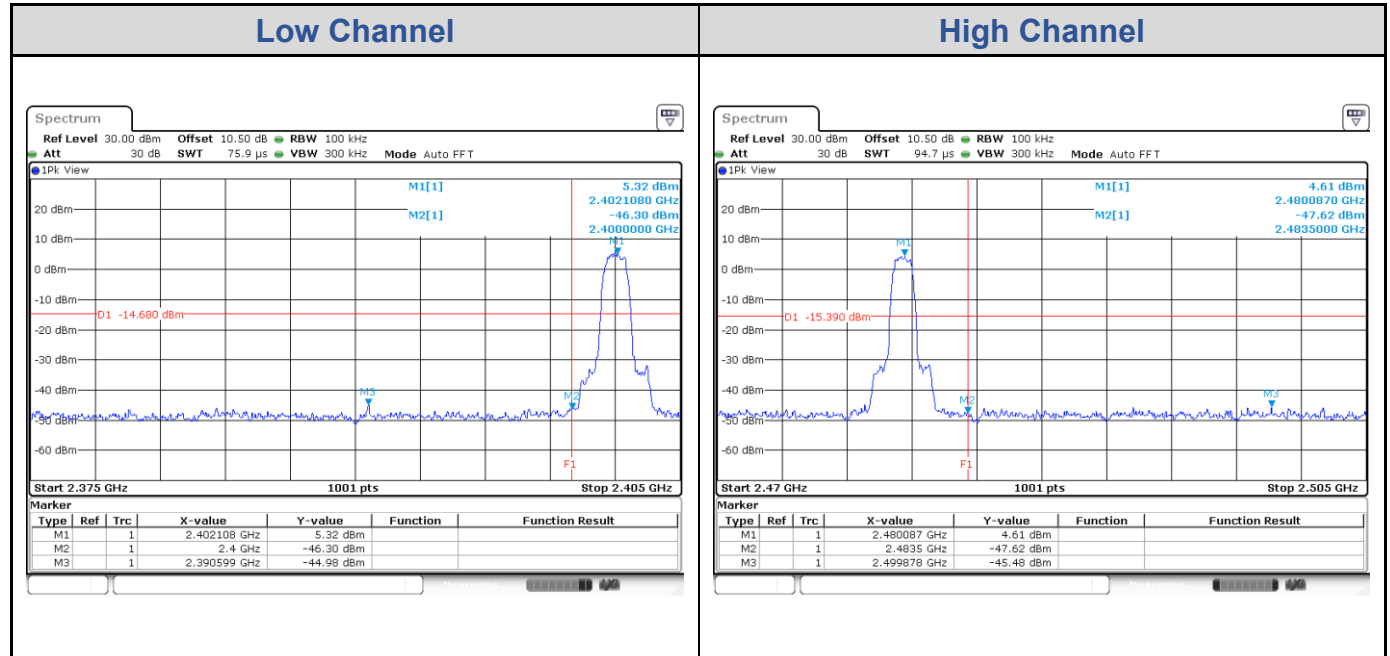
8DPSK
Low Channel

Middle Channel

High Channel


Test Result of Conducted Band Edge, Tx Mode

GFSK

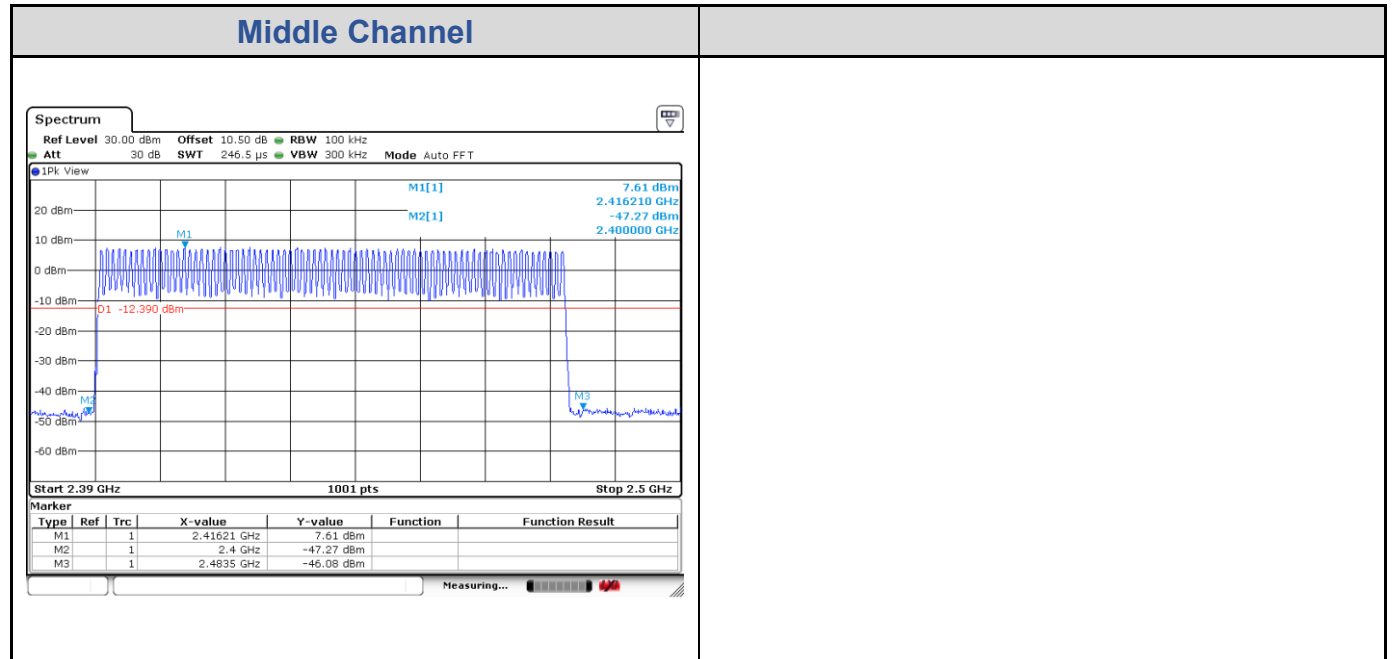


8DPSK

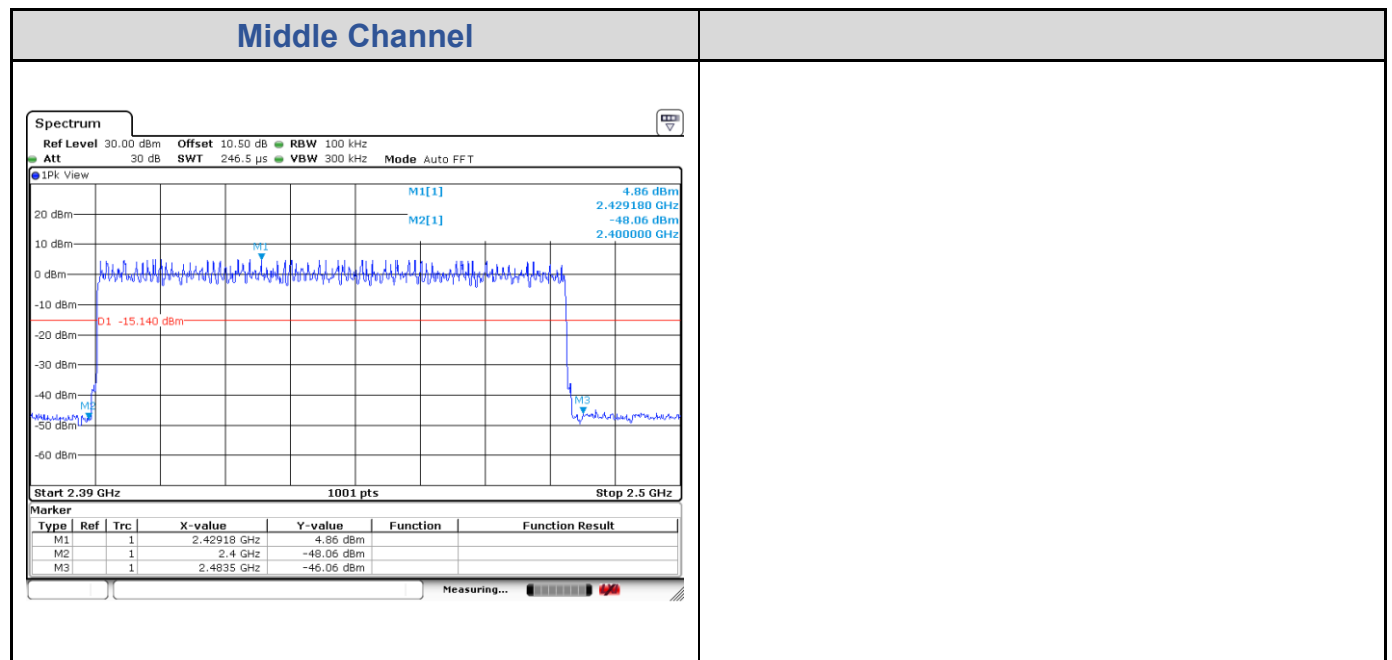


Test Result of Hopping Band Edge

GFSK



8DPSK

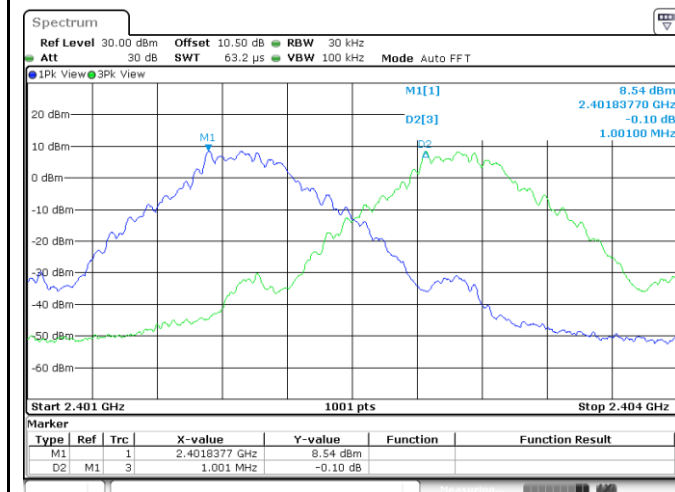


Test Result of Hopping Channel Separation

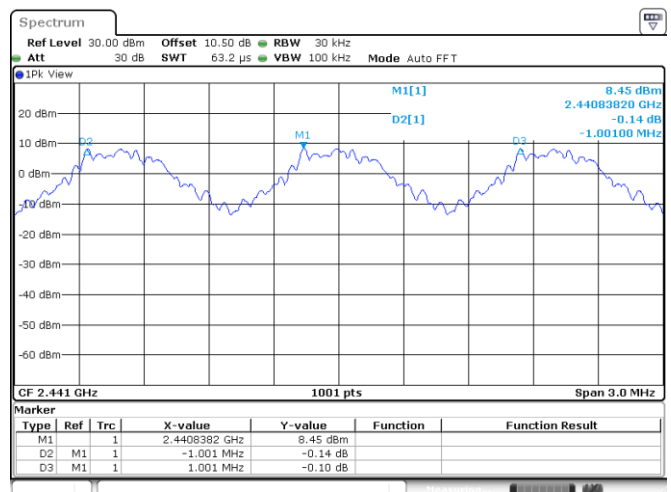
GFSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	950.00	0.633	Pass
39	2441	1.00	950.00	0.633	Pass
78	2480	1.00	950.00	0.633	Pass

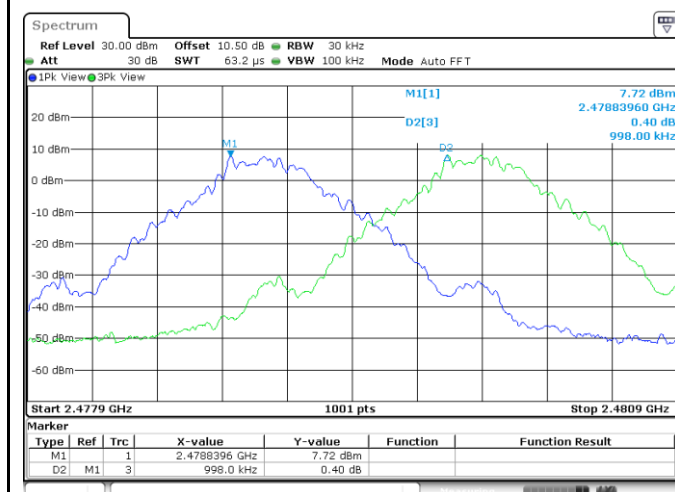
Low Channel



Middle Channel

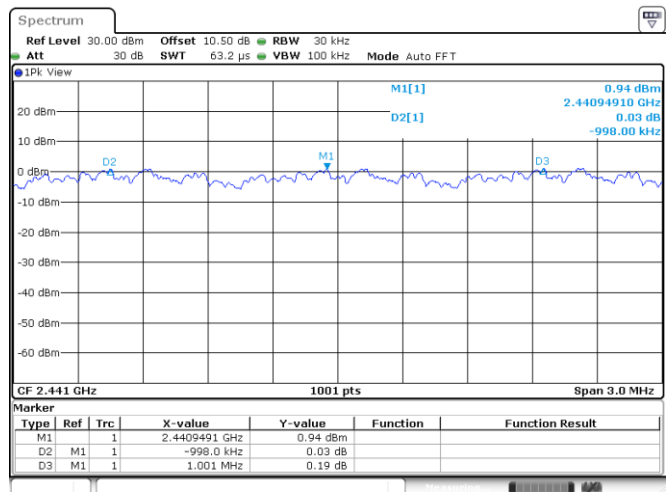
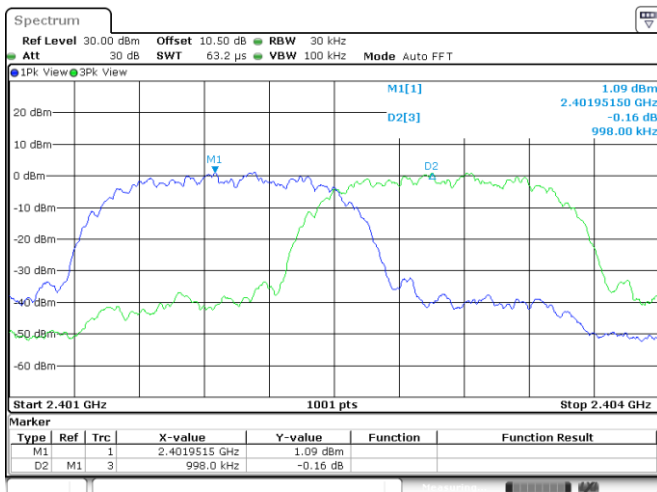
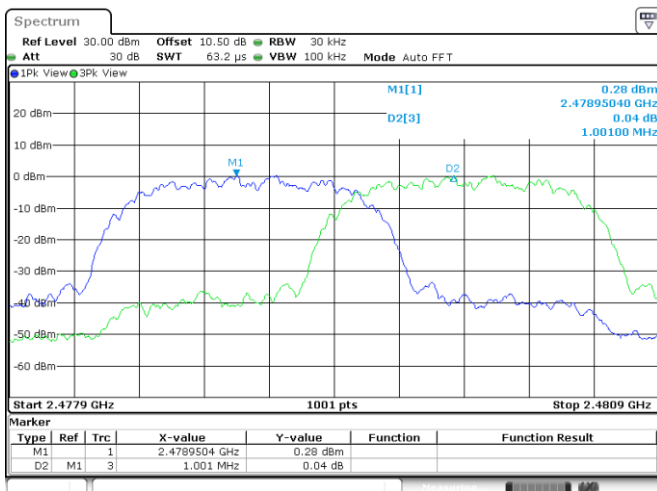


High Channel



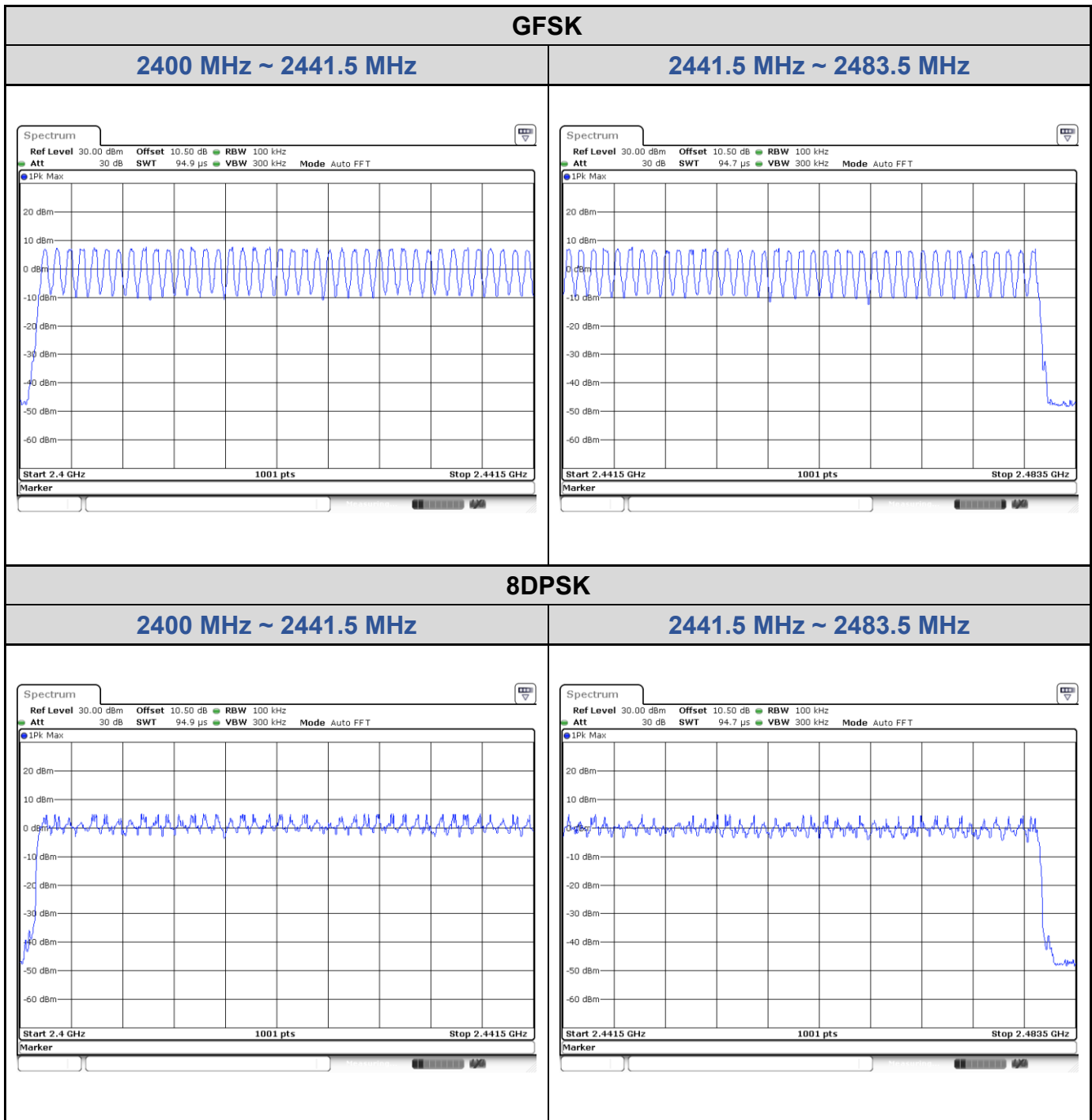
8DPSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	1294.70	0.863	Pass
39	2441	1.00	1342.70	0.895	Pass
78	2480	1.00	1297.70	0.865	Pass

Low Channel
Middle Channel

High Channel


Test Result of Number of Hopping Frequency

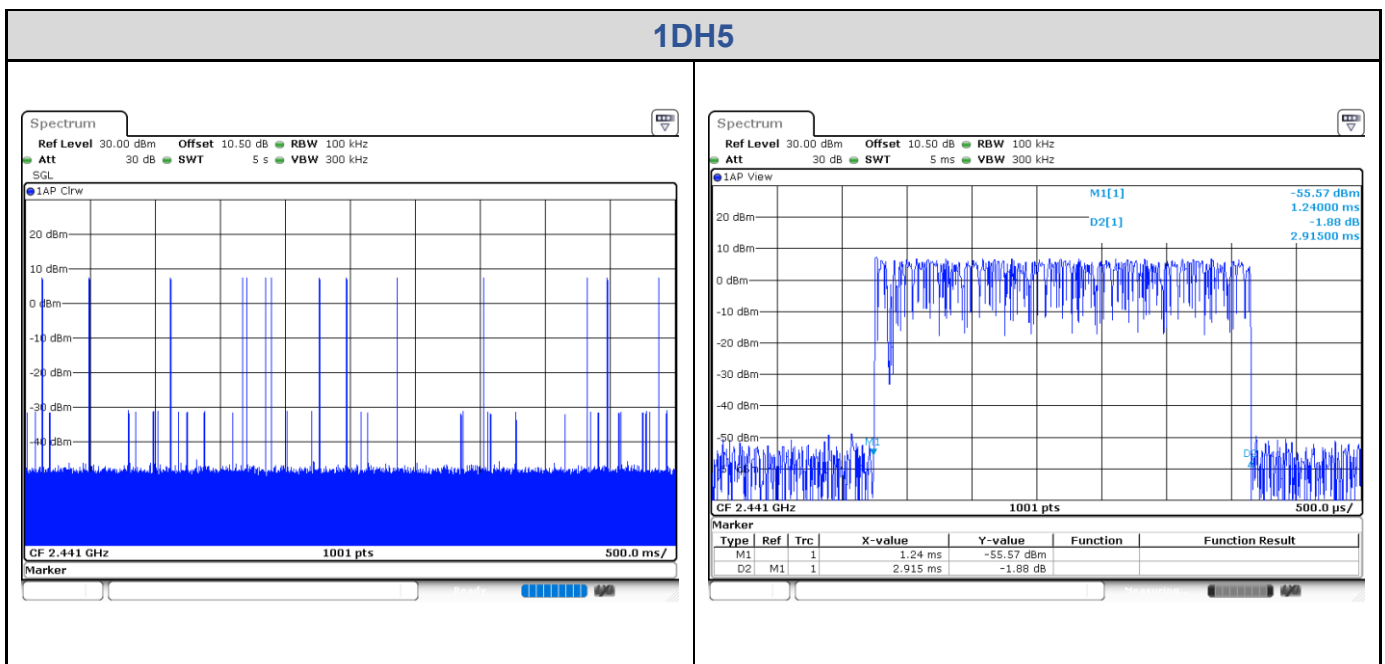
Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥15	Pass



Test Result of Dwell Time

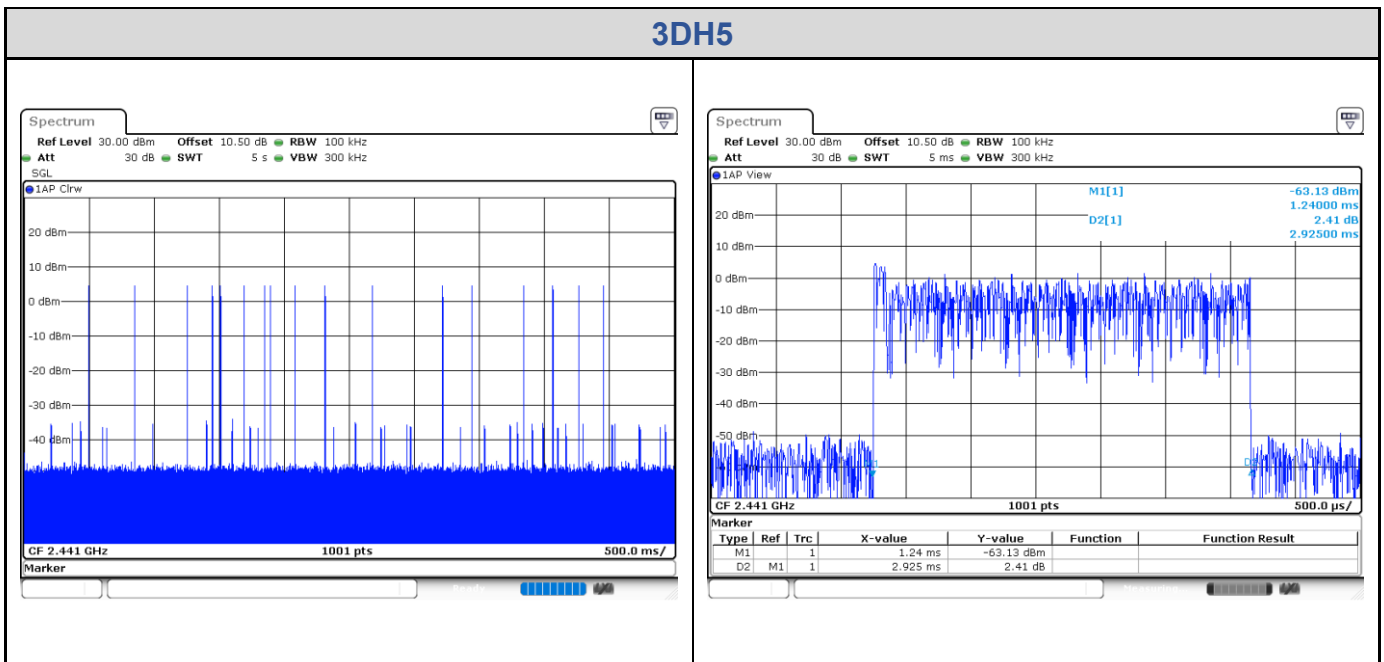
GFSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
1DH5	14 (times / 5 sec) * 6.32 = 88.48 times	2.915	0.2579192	0.4	Pass



8DPSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
3DH5	17 (times / 5 sec) * 6.32 = 107.44 times	2.925	0.314262	0.4	Pass



Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

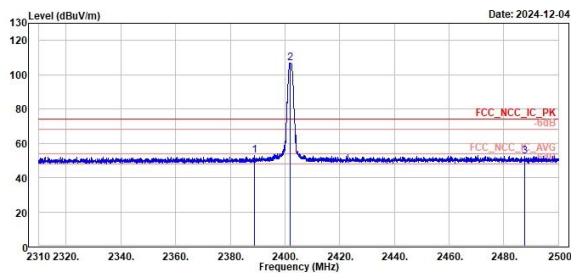
Band Edges, 2.31GHz ~ 2.5GHz

GFSK

Low Channel (Horizontal) Peak



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

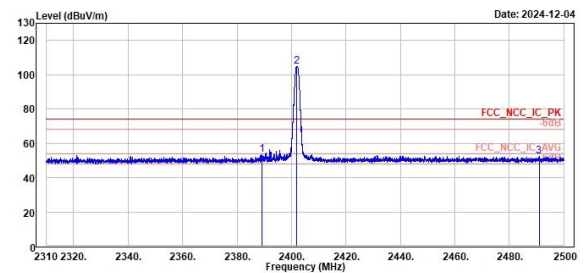


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.93	52.79	46.94	5.85	74.00	-21.21	144	191	Peak	Horizontal		
2 *	2402.00	107.00	101.11	5.89	74.00	33.00	144	191	Peak	Horizontal		
3	2487.65	52.57	46.43	6.14	74.00	-21.43	144	191	Peak	Horizontal		

Low Channel (Vertical) Peak



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



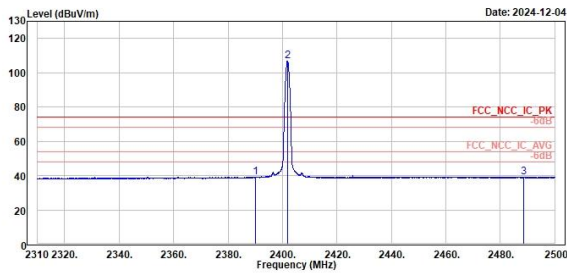
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.19	53.61	47.76	5.85	74.00	-20.39	100	172	Peak	Vertical		
2 *	2402.00	104.78	98.89	5.89	74.00	30.78	100	172	Peak	Vertical		
3	2490.92	52.55	46.40	6.15	74.00	-21.45	100	172	Peak	Vertical		

GFSK

Low Channel (Horizontal) Average



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

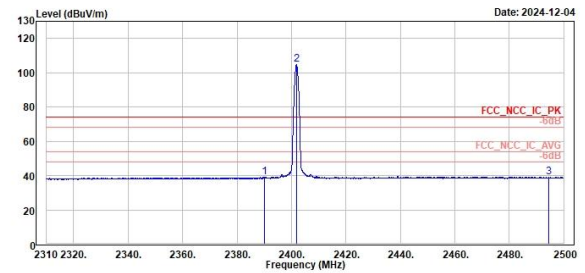


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.99	39.11	33.26	5.85	54.00	-14.89	144	191	Average	Horizontal		
2 *	2402.00	106.09	101.00	5.09	54.00	52.89	144	191	Average	Horizontal		
3	2488.68	39.19	33.04	6.15	54.00	-14.81	144	191	Average	Horizontal		

Low Channel (Vertical) Average



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



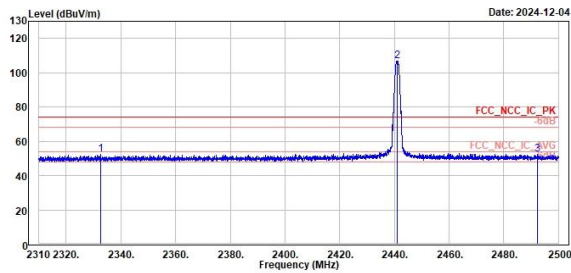
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.95	38.91	33.06	5.85	54.00	-15.09	100	172	Average	Vertical		
2 *	2402.00	104.62	98.73	5.89	54.00	50.62	100	172	Average	Vertical		
3	2494.45	38.98	32.84	6.14	54.00	-15.02	100	172	Average	Vertical		

GFSK

Middle Channel (Horizontal) Peak



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

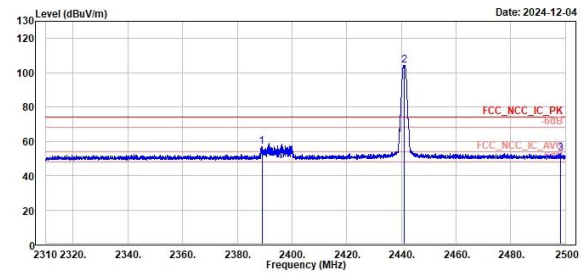


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2332.72	52.26	46.60	5.66	74.00	-21.74	161	186	Peak	Horizontal		
2 *	2441.00	106.82	100.75	6.07	74.00	32.82	161	186	Peak	Horizontal		
3	2492.44	52.39	46.25	6.14	74.00	-21.61	161	186	Peak	Horizontal		

Middle Channel (Vertical) Peak



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



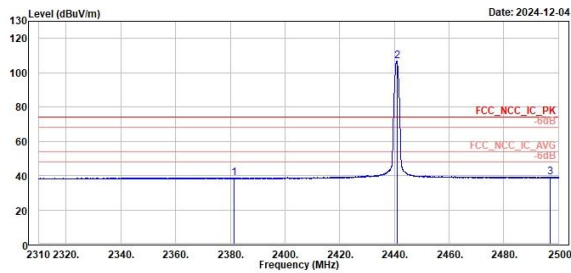
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.00	56.68	50.83	5.85	74.00	-17.32	100	178	Peak	Vertical		
2 *	2441.00	104.42	98.35	6.07	74.00	30.42	100	178	Peak	Vertical		
3	2498.10	53.04	46.89	6.15	74.00	-20.96	100	178	Peak	Vertical		

GFSK

Middle Channel (Horizontal) Average



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

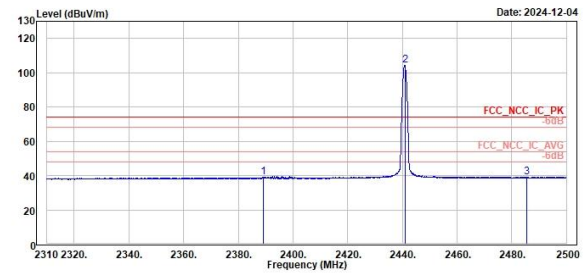


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2381.40	38.74	32.92	5.82	54.00	-15.26	161	186	Average	Horizontal		
2 *	2441.00	106.66	100.59	6.07	54.00	52.66	161	186	Average	Horizontal		
3	2496.96	39.19	33.04	6.15	54.00	-14.81	161	186	Average	Horizontal		

Middle Channel (Vertical) Average



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



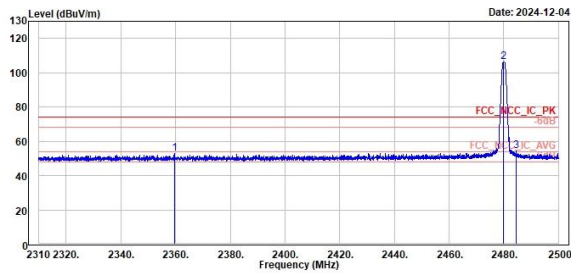
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.00	39.21	33.36	5.85	54.00	-14.79	100	178	Average	Vertical		
2 *	2441.00	104.27	98.28	6.07	54.00	50.27	100	178	Average	Vertical		
3	2485.41	39.19	33.05	6.14	54.00	-14.81	100	178	Average	Vertical		

GFSK

High Channel (Horizontal) Peak



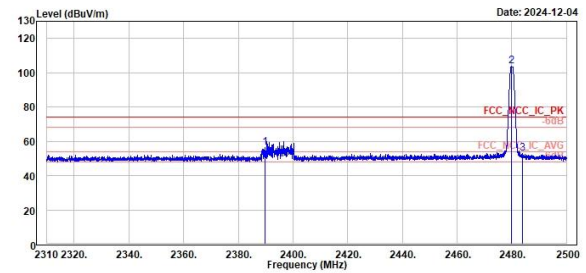
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2359.55	52.68	46.91	5.77	74.00	-21.32	154	187	Peak	Horizontal		
2 *	2480.00	106.32	100.19	6.13	74.00	32.32	154	187	Peak	Horizontal		
3	2484.42	54.26	48.12	6.14	74.00	-19.74	154	187	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



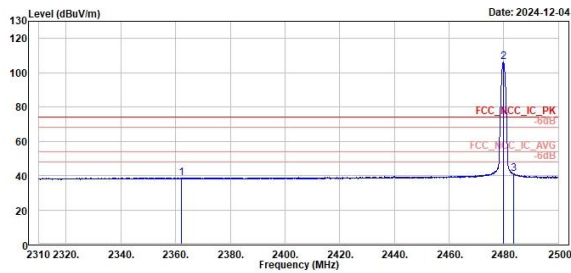
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.88	56.23	50.38	5.85	74.00	-17.77	100	183	Peak	Vertical		
2 *	2480.00	103.65	97.52	6.13	74.00	29.65	100	183	Peak	Vertical		
3	2483.96	52.74	46.60	6.14	74.00	-21.26	100	183	Peak	Vertical		

GFSK

High Channel (Horizontal) Average



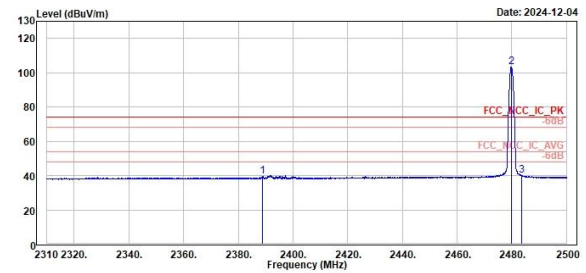
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



High Channel (Vertical) Average



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

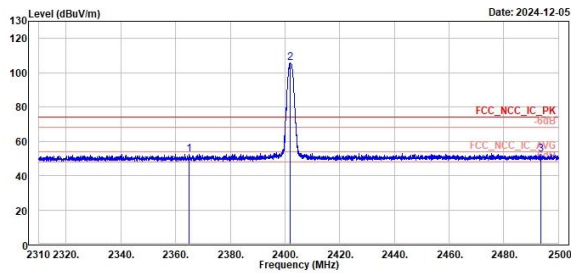


8DPSK

Low Channel (Horizontal) Peak



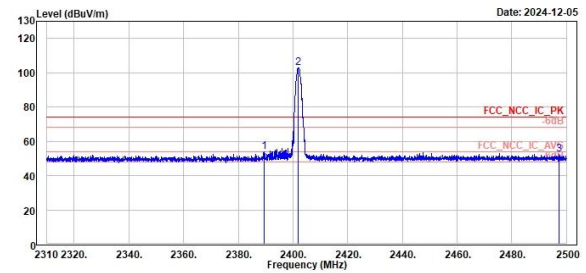
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2364.95	52.48	46.78	5.78	74.00	-21.52	128	190	Peak	Horizontal		
2 *	2402.00	105.53	99.64	5.89	74.00	31.53	128	190	Peak	Horizontal		
3	2493.46	52.28	46.14	6.14	74.00	-21.72	128	190	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



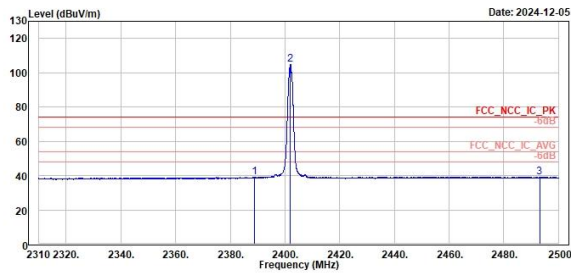
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.34	54.12	48.27	5.85	74.00	-19.88	100	173	Peak	Vertical		
2 *	2402.00	102.68	96.79	5.89	74.00	28.68	100	173	Peak	Vertical		
3	2497.19	52.49	46.34	6.15	74.00	-21.51	100	173	Peak	Vertical		

8DPSK

Low Channel (Horizontal) Average



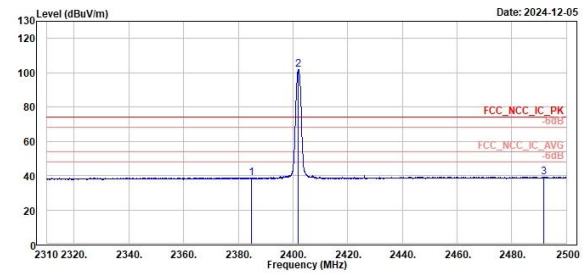
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.01	39.00	33.15	5.85	54.00	-15.00	128	190	Average	Horizontal		
2 *	2402.00	104.76	98.87	5.89	54.00	50.76	128	190	Average	Horizontal		
3	2493.08	39.04	32.90	6.14	54.00	-14.96	128	190	Average	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



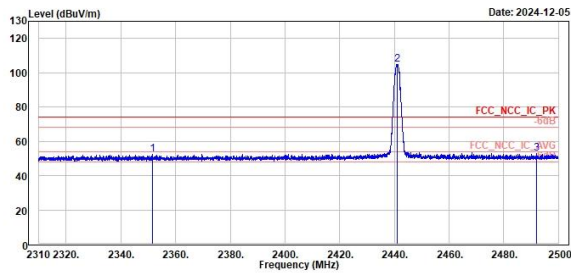
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2384.94	38.75	32.91	5.84	54.00	-15.25	100	173	Average	Vertical		
2 *	2402.00	101.91	96.02	5.89	54.00	47.91	100	173	Average	Vertical		
3	2491.83	39.03	32.88	6.15	54.00	-14.97	100	173	Average	Vertical		

8DPSK

Middle Channel (Horizontal) Peak



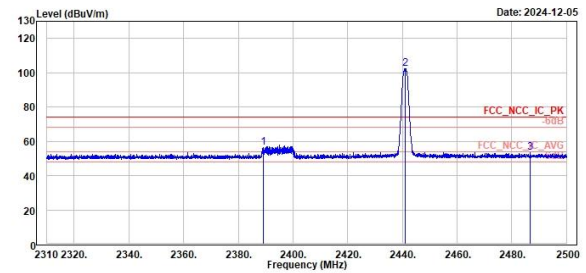
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2351.57	52.45	46.71	5.74	74.00	-21.55	138	187	Peak	Horizontal		
2 *	2441.00	104.78	98.71	6.07	74.00	30.78	138	187	Peak	Horizontal		
3	2491.98	52.70	46.56	6.14	74.00	-21.30	138	187	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



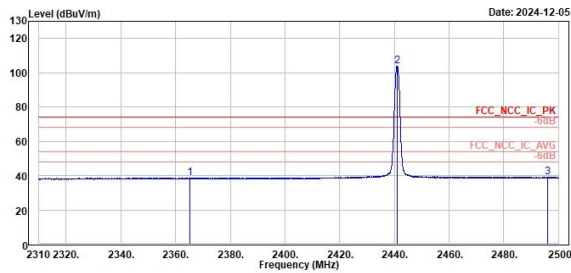
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.00	56.52	50.67	5.85	74.00	-17.48	100	175	Peak	Vertical		
2 *	2441.00	102.41	96.34	6.07	74.00	28.41	100	175	Peak	Vertical		
3	2486.70	53.14	47.00	6.14	74.00	-20.86	100	175	Peak	Vertical		

8DPSK

Middle Channel (Horizontal) Average



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

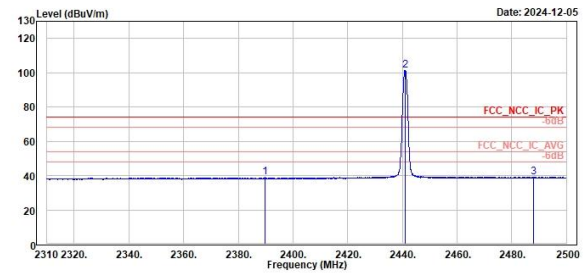


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2365.37	38.77	32.99	5.78	54.00	-15.23	138	187	Average	Horizontal		
2 *	2441.00	105.97	97.99	6.07	54.00	49.97	138	187	Average	Horizontal		
3	2496.09	39.12	32.98	6.14	54.00	-14.88	138	187	Average	Horizontal		

Middle Channel (Vertical) Average



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



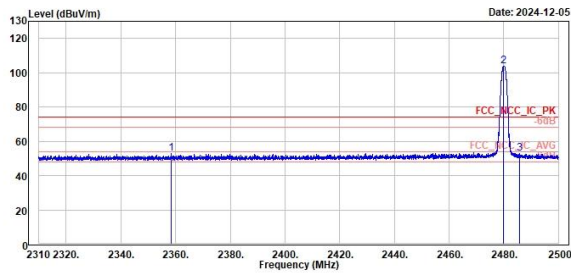
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.76	38.96	33.11	5.85	54.00	-15.04	100	175	Average	Vertical		
2 *	2441.00	101.57	95.50	6.07	54.00	47.57	100	175	Average	Vertical		
3	2487.92	39.01	32.87	6.14	54.00	-14.99	100	175	Average	Vertical		

8DPSK

High Channel (Horizontal) Peak



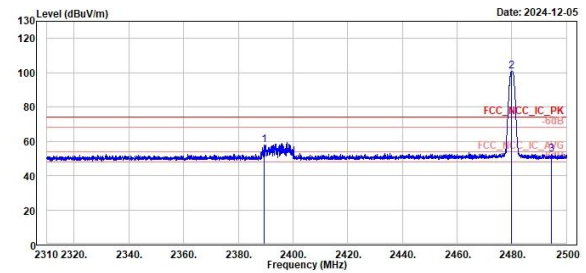
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2358.37	52.83	47.06	5.77	74.00	-21.17	156	188 Peak		Horizontal		
2 *	2480.00	103.92	97.79	6.13	74.00	29.92	156	188 Peak		Horizontal		
3	2485.90	52.81	46.67	6.14	74.00	-21.19	156	188 Peak		Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



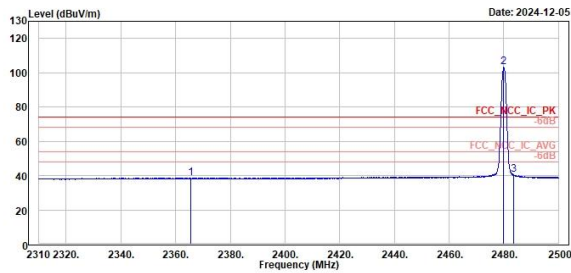
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.46	58.01	52.16	5.85	74.00	-15.99	100	183 Peak		Vertical		
2 *	2480.00	100.95	94.82	6.13	74.00	26.95	100	183 Peak		Vertical		
3	2494.38	52.55	46.41	6.14	74.00	-21.45	100	183 Peak		Vertical		

8DPSK

High Channel (Horizontal) Average



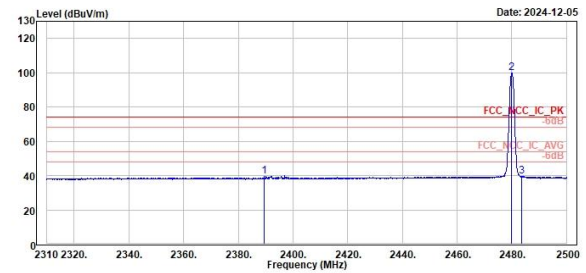
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2365.48	38.58	32.80	5.78	54.00	-15.42	156	188 Average	Horizontal	
2 *	2480.00	103.07	96.94	6.13	54.00	49.07	156	188 Average	Horizontal	
3	2483.58	40.33	34.19	6.14	54.00	-13.67	156	188 Average	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2389.42	39.36	33.51	5.85	54.00	-14.64	100	183 Average	Vertical	
2 *	2480.00	99.91	93.78	6.13	54.00	45.91	100	183 Average	Vertical	
3	2483.58	39.42	33.28	6.14	54.00	-14.58	100	183 Average	Vertical	

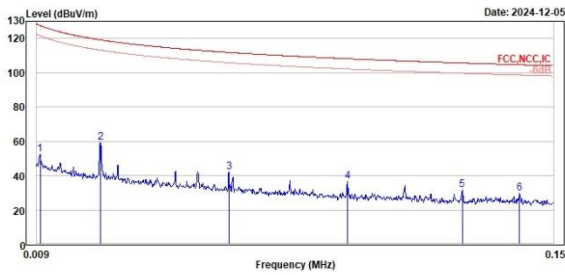
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

GFSK

Low Channel (Open) 9kHz~150kHz



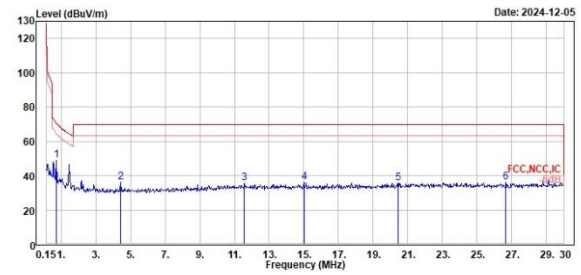
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	52.45	34.14	18.31	127.60	-75.15	100	312	Peak	Open		
2	0.03	59.31	39.76	19.55	119.13	-59.82	100	8	Peak	Open		
3	0.06	42.01	22.72	19.29	111.82	-69.81	100	227	Peak	Open		
4	0.09	36.57	17.92	18.65	108.16	-71.59	100	36	Peak	Open		
5	0.13	31.67	13.08	18.59	105.66	-73.99	100	213	Peak	Open		
6	0.14	29.69	11.06	18.63	104.63	-74.94	100	330	Peak	Open		



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.75	48.90	29.85	19.05	70.14	-21.24	100	187	Peak	Open		
2	4.42	36.01	16.66	19.35	69.50	-33.49	100	358	Peak	Open		
3	11.58	35.51	14.32	21.19	69.50	-33.99	100	207	Peak	Open		
4	15.02	35.97	14.37	21.60	69.50	-33.53	100	88	Peak	Open		
5	20.45	35.41	13.20	22.21	69.50	-34.09	100	336	Peak	Open		
6	26.66	35.95	13.55	22.40	69.50	-33.55	100	124	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

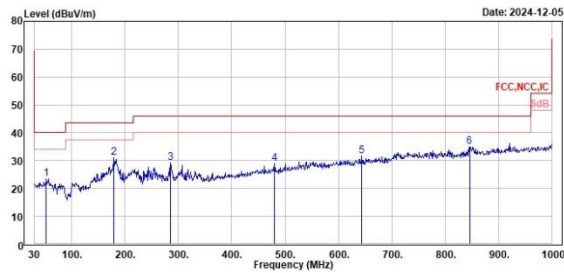
GFSK

Low Channel (Horizontal)

Low Channel (Vertical)



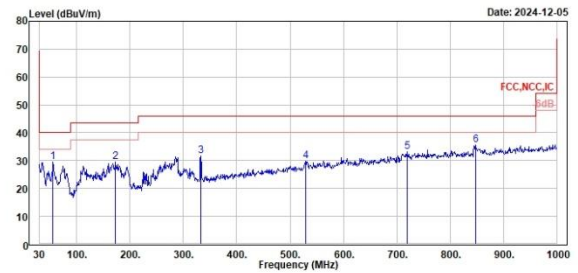
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	52.31	23.56	30.52	-6.96	40.00	-16.44	200	90	Peak	Horizontal		
2	179.38	31.05	38.82	-7.77	43.50	-12.45	100	184	Peak	Horizontal		
3	285.11	29.08	35.63	-6.55	46.00	-16.92	100	99	Peak	Horizontal		
4	480.08	28.93	31.30	-2.37	46.00	-17.07	200	146	Peak	Horizontal		
5	644.01	31.62	30.76	0.86	46.00	-14.38	100	271	Peak	Horizontal		
6	845.77	34.93	30.70	4.23	46.00	-11.07	100	151	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	55.22	29.45	36.48	-7.03	40.00	-10.55	200	114	Peak	Vertical		
2	172.59	29.46	36.42	-6.96	43.50	-14.04	100	342	Peak	Vertical		
3	332.64	31.61	36.87	-5.26	46.00	-14.39	100	154	Peak	Vertical		
4	528.58	29.85	31.10	-1.25	46.00	-16.15	100	197	Peak	Vertical		
5	719.67	33.02	30.80	2.22	46.00	-12.98	200	292	Peak	Vertical		
6	847.71	35.61	31.33	4.28	46.00	-10.39	200	30	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

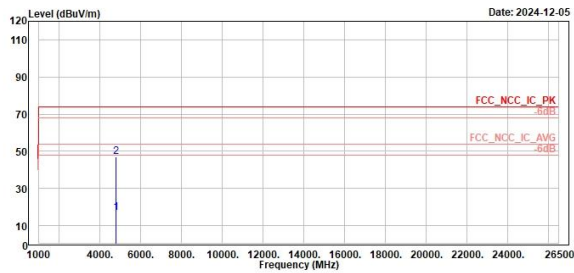
GFSK

Low Channel (Horizontal)

Low Channel (Vertical)



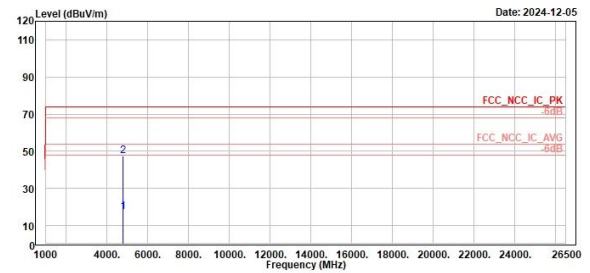
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	16.00	7.15	9.75	54.00	-37.10	100	251	Average	Horizontal	CF	
2	4804.00	47.00	37.25	9.75	74.00	-27.00	100	251	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



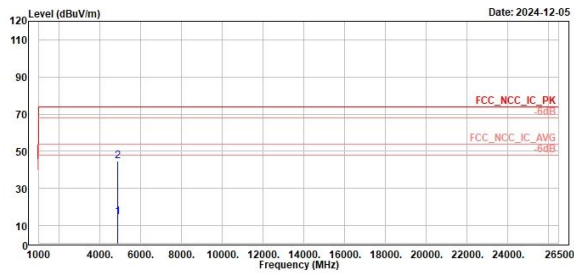
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	17.40	7.65	9.75	54.00	-36.60	100	186	Average	Vertical	CF	
2	4804.00	47.50	37.75	9.75	74.00	-26.50	100	186	Peak	Vertical		

GFSK

Middle Channel (Horizontal)



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

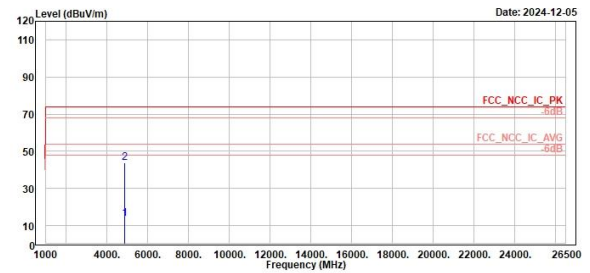


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	14.71	4.84	9.87	54.00	-39.29	100	169	Average	Horizontal	CF	
2	4882.00	44.61	34.94	9.87	74.00	-29.19	100	169	Peak	Horizontal		

Middle Channel (Vertical)



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	13.50	3.63	9.87	54.00	-40.50	100	161	Average	Vertical	CF	
2	4882.00	43.60	33.73	9.87	74.00	-30.40	100	161	Peak	Vertical		

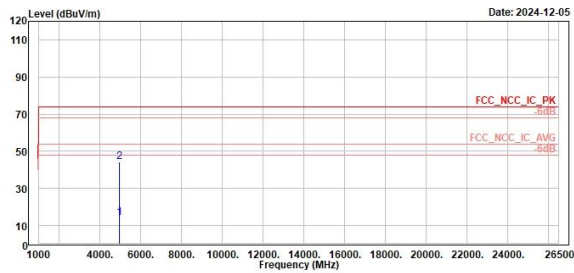
GFSK

High Channel (Horizontal)

High Channel (Vertical)



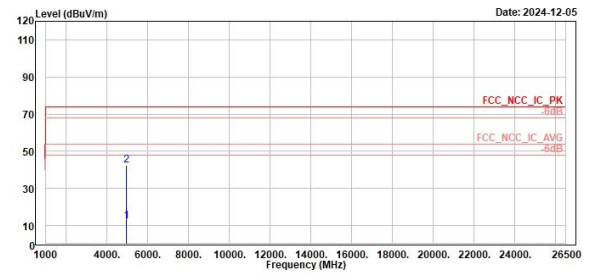
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	14.21	4.05	10.16	54.00	-39.79	100	360	Average	Horizontal	CF	
2	4960.00	44.31	34.15	10.16	74.00	-29.69	100	360	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	12.46	2.30	10.16	54.00	-41.54	100	166	Average	Vertical	CF	
2	4960.00	42.56	32.40	10.16	74.00	-31.44	100	166	Peak	Vertical		

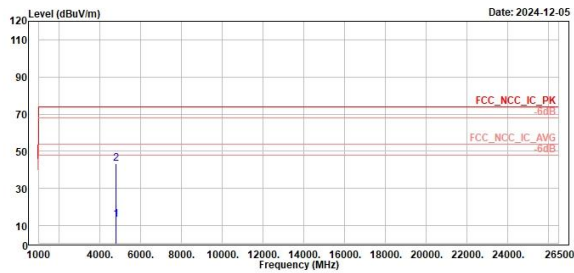
8DPSK

Low Channel (Horizontal)

Low Channel (Vertical)



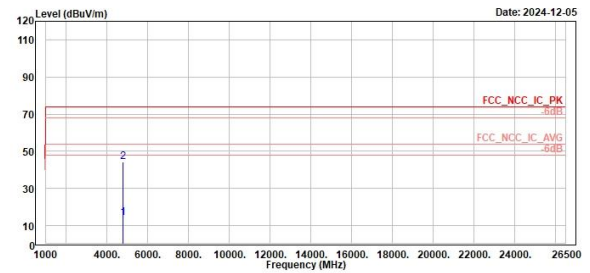
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4894.00	13.43	3.68	9.75	54.00	-40.57	100	148	Average	Horizontal	CF	
2	4894.00	43.53	33.78	9.75	74.00	-30.47	100	148	Peak	Horizontal		



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



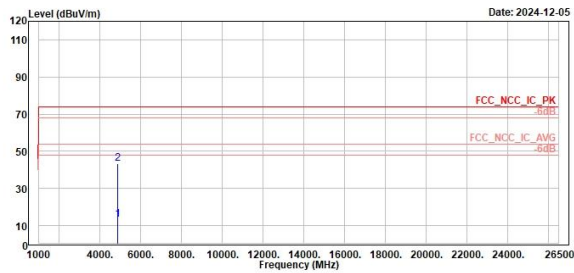
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4894.00	14.07	4.32	9.75	54.00	-39.93	100	221	Average	Vertical	CF	
2	4894.00	44.17	34.42	9.75	74.00	-29.83	100	221	Peak	Vertical		

8DPSK

Middle Channel (Horizontal)



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

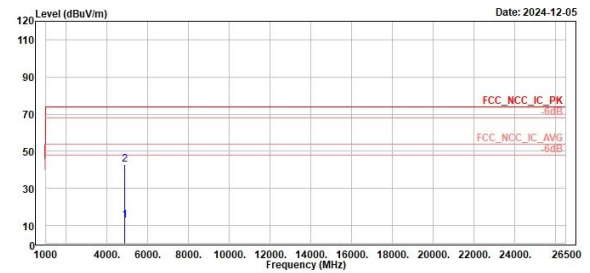


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	13.22	3.35	9.87	54.00	-40.78	100	163	Average	Horizontal	CF	
2	4882.00	43.32	33.45	9.87	74.00	-30.68	100	163	Peak	Horizontal		

Middle Channel (Vertical)



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	12.62	2.75	9.87	54.00	-41.38	100	58	Average	Vertical	CF	
2	4882.00	42.72	32.85	9.87	74.00	-31.28	100	58	Peak	Vertical		

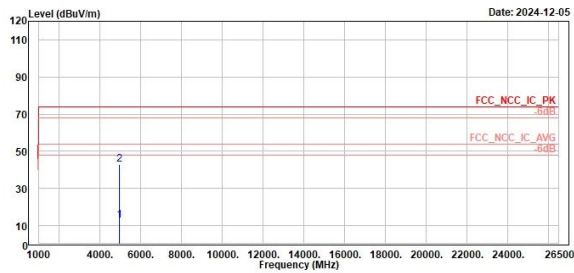
8DPSK

High Channel (Horizontal)

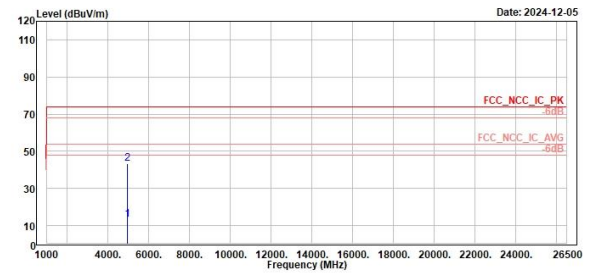
High Channel (Vertical)



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Mains Conducted Emission, TX 150kHz ~ 30MHz

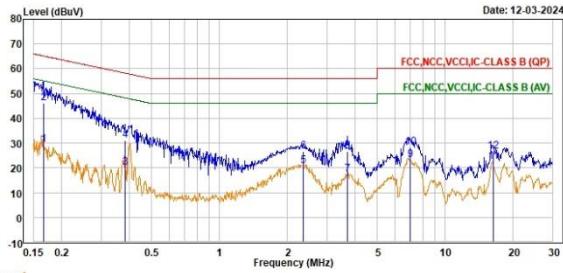
Worst Band

(Line)

(Neutral)



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec. 2, Fenliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

