

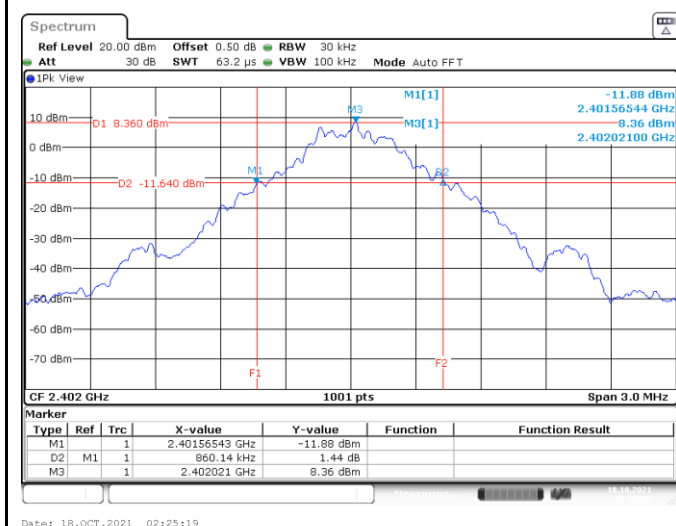
Appendix A: Test Results of Conducted Test

Test Result of 20 dB Bandwidth

GFSK

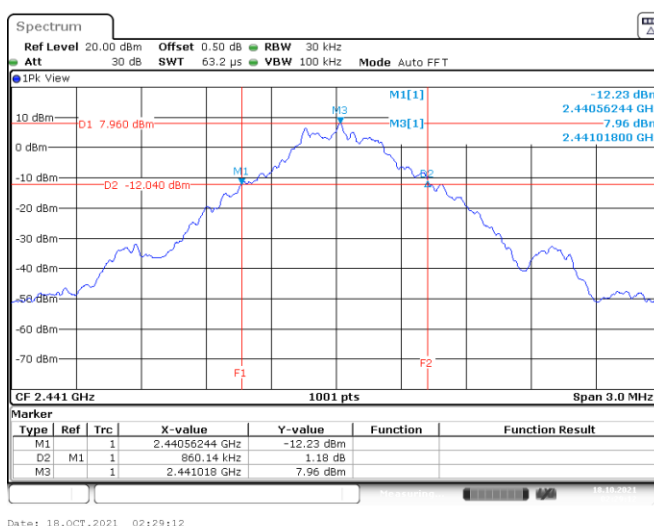
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Result
Low Channel	2402	860.14	Pass
Middle Channel	2441	860.14	Pass
High Channel	2480	863.14	Pass

Low Channel



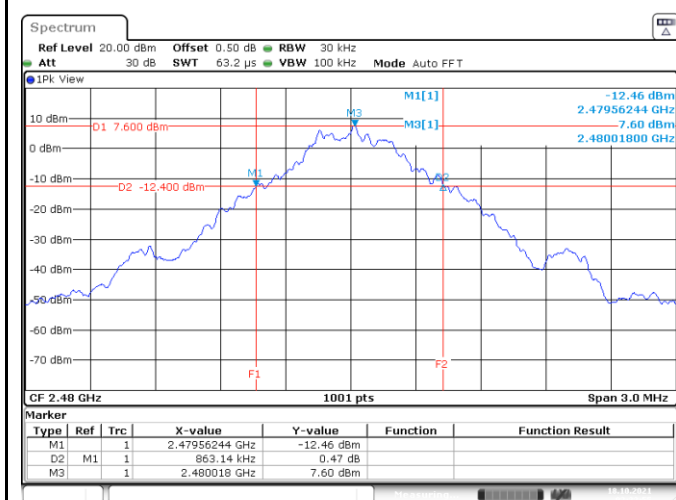
Date: 18.OCT.2021 02:25:19

Middle Channel



Date: 18.OCT.2021 02:29:12

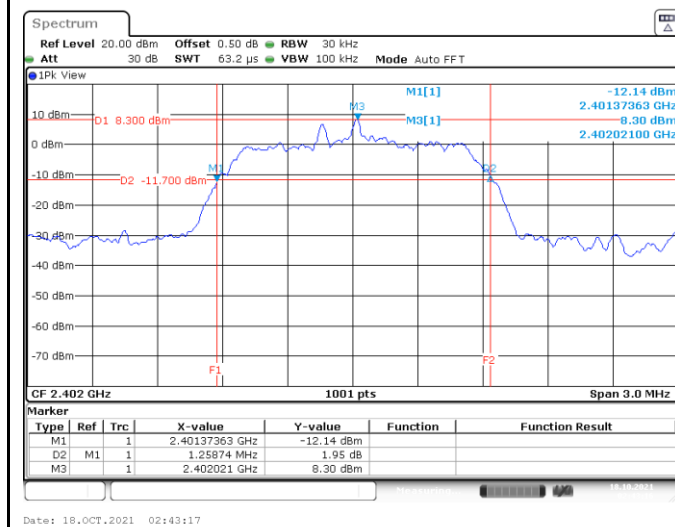
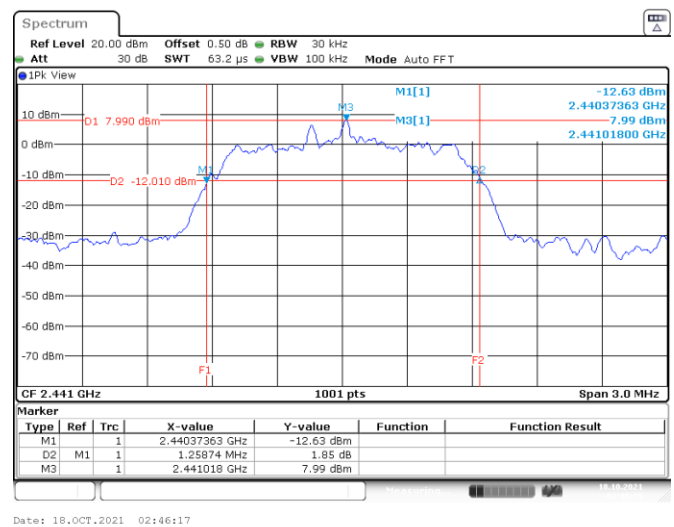
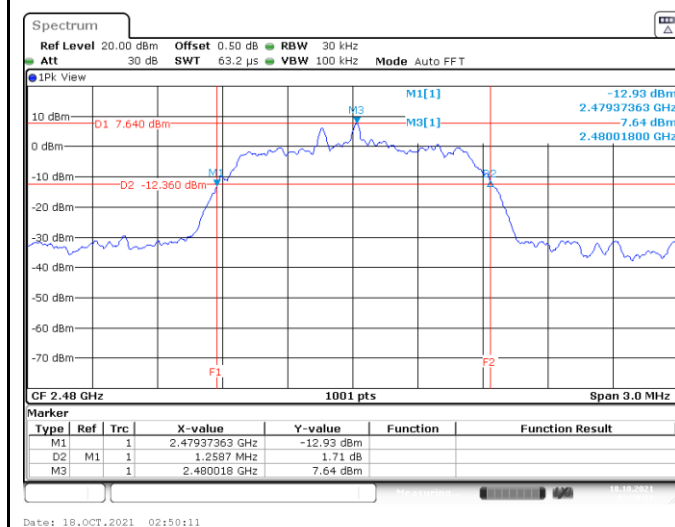
High Channel



Date: 18.OCT.2021 02:32:55

8DPSK

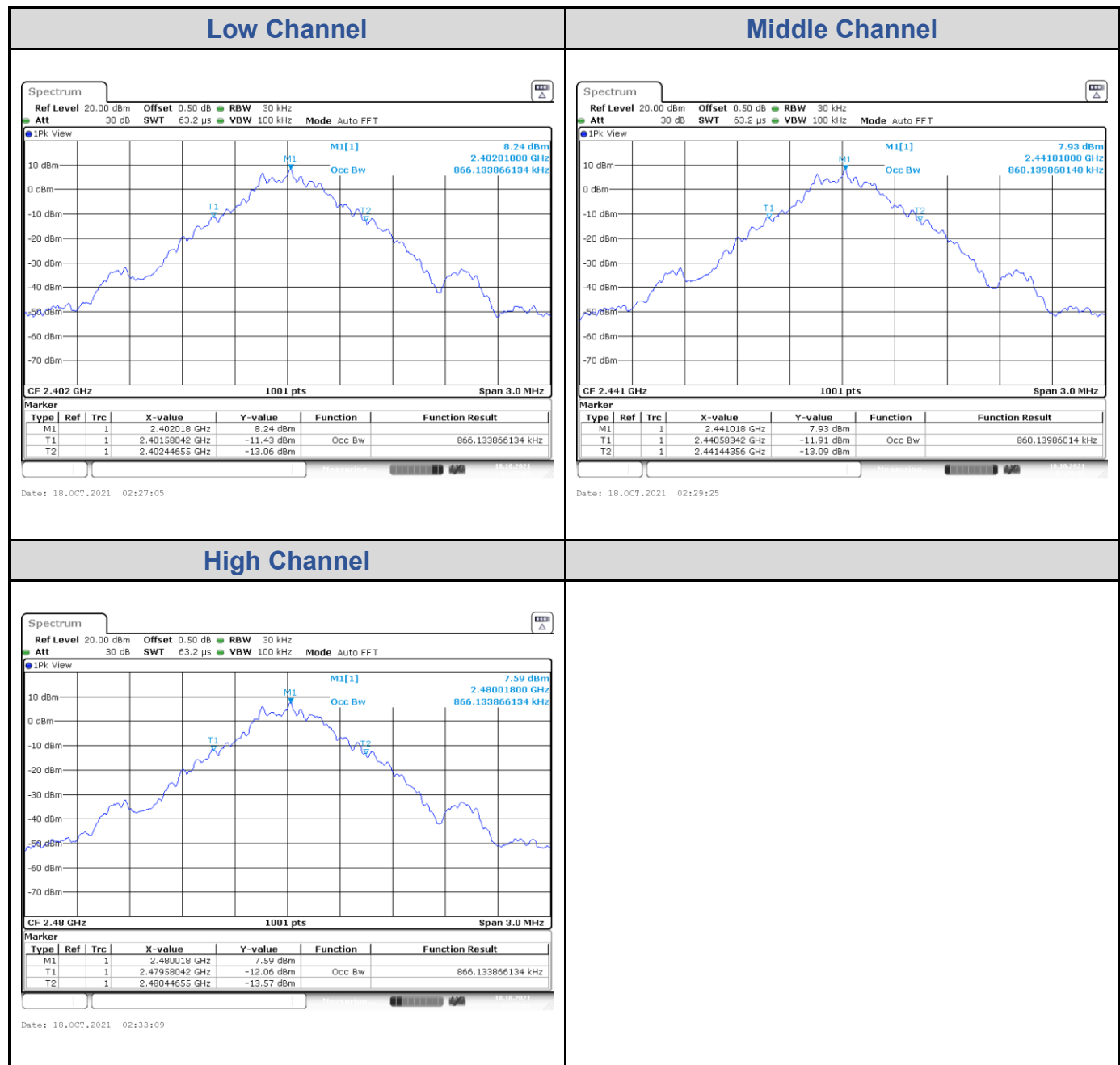
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Result
Low Channel	2402	1258.74	Pass
Middle Channel	2441	1258.74	Pass
High Channel	2480	1258.70	Pass

Low Channel

Middle Channel

High Channel


Test Result of 99% Occupied Bandwidth

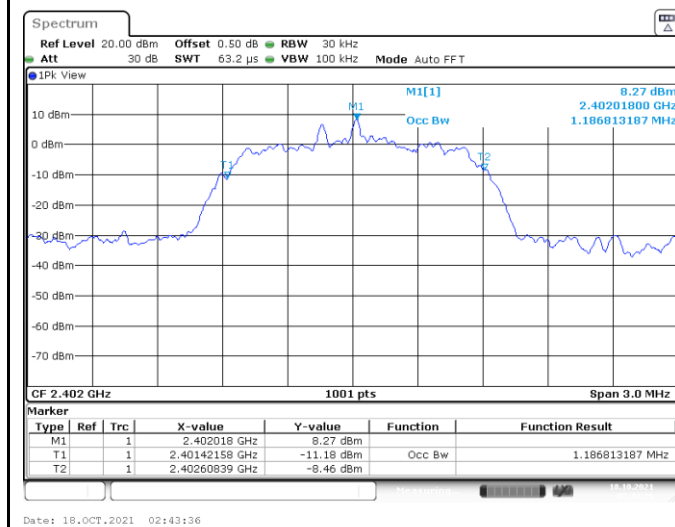
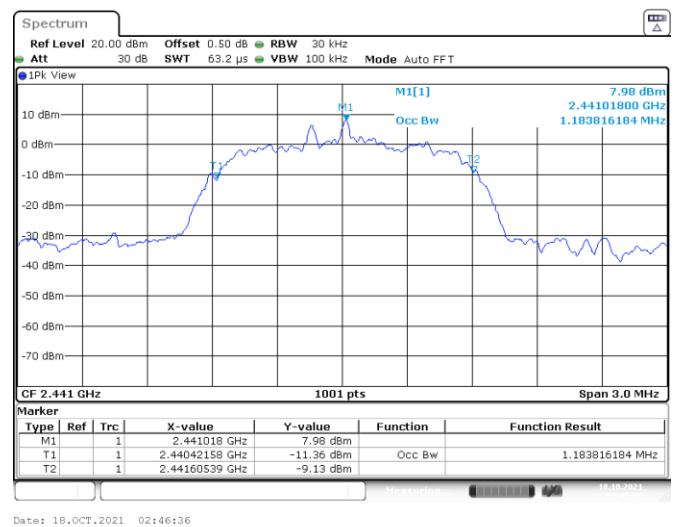
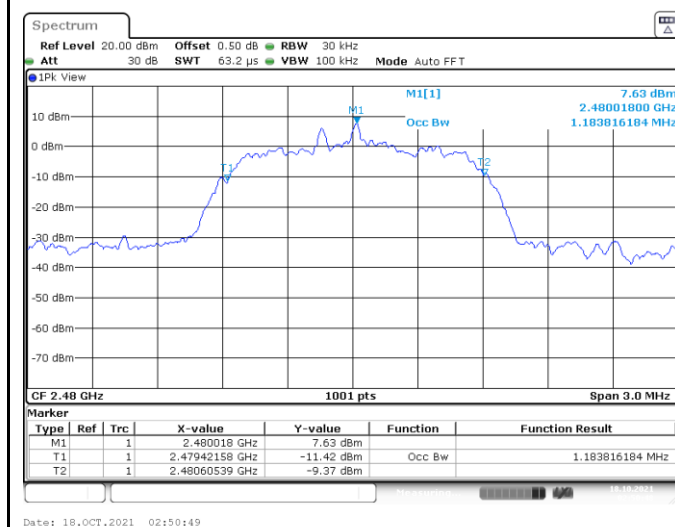
GFSK

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)
Low Channel	2402	866.13
Middle Channel	2441	860.14
High Channel	2480	866.13



8DPSK

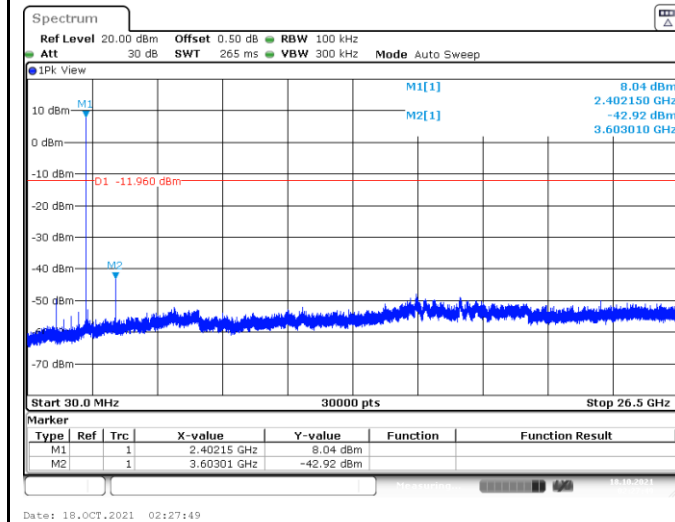
Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)
Low Channel	2402	1186.81
Middle Channel	2441	1183.82
High Channel	2480	1183.82

Low Channel

Middle Channel

High Channel


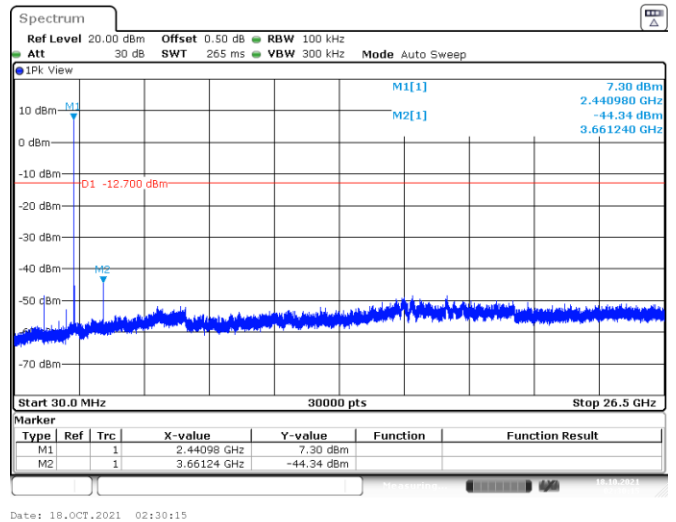
Test Result of Conducted Spurious Emissions, Tx Mode

GFSK

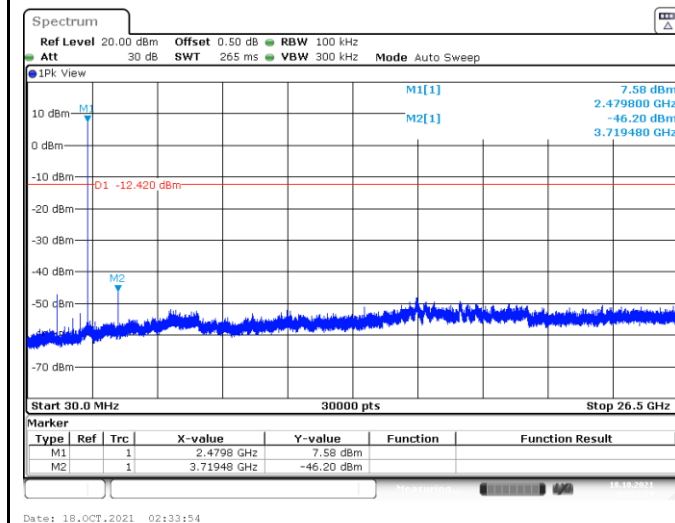
Low Channel



Middle Channel

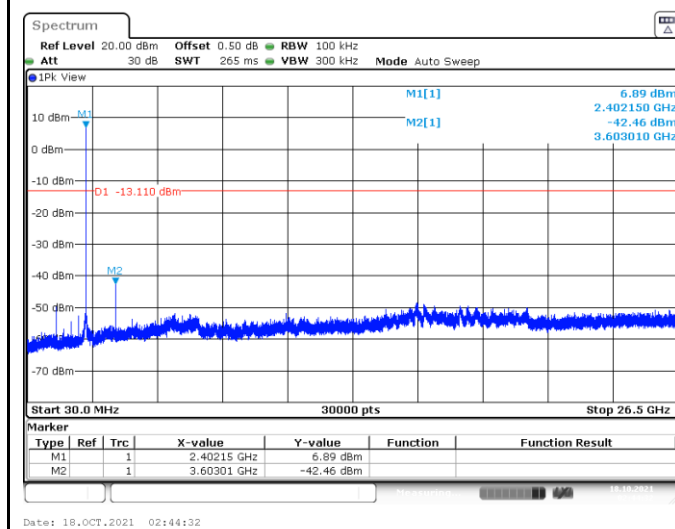


High Channel

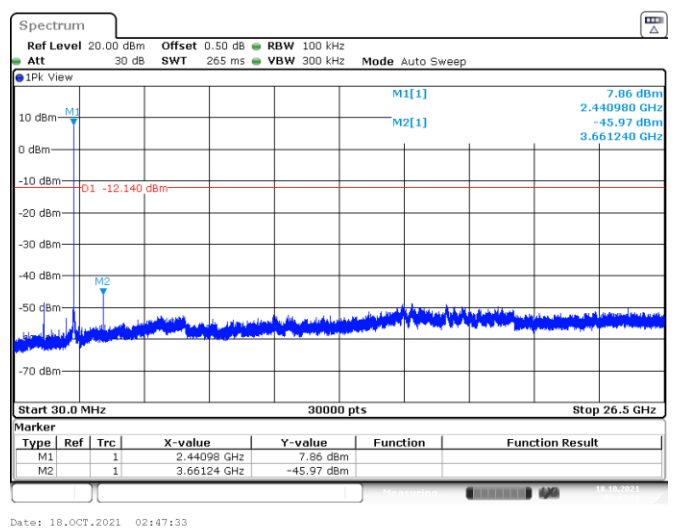


8DPSK

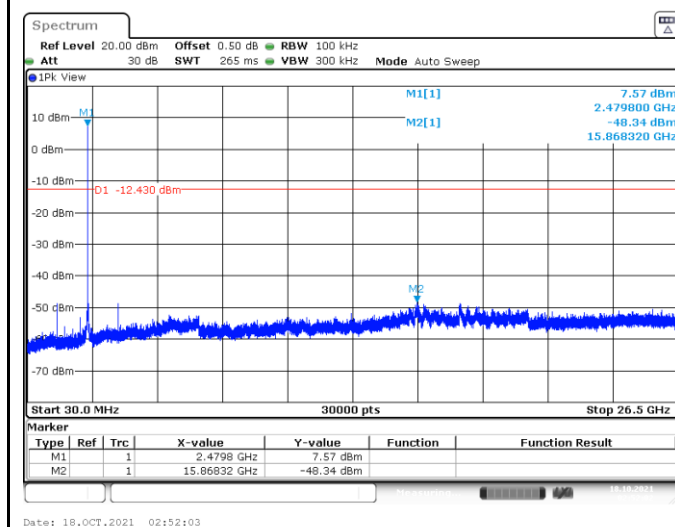
Low Channel



Middle Channel

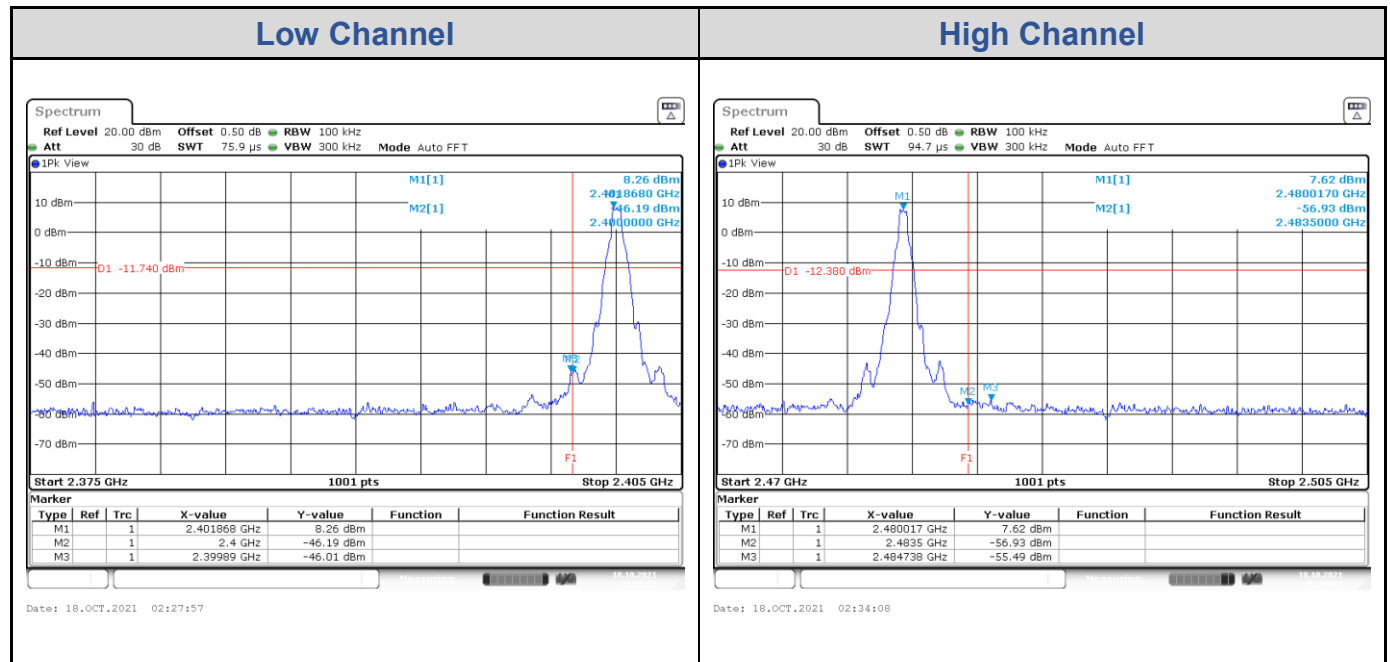


High Channel

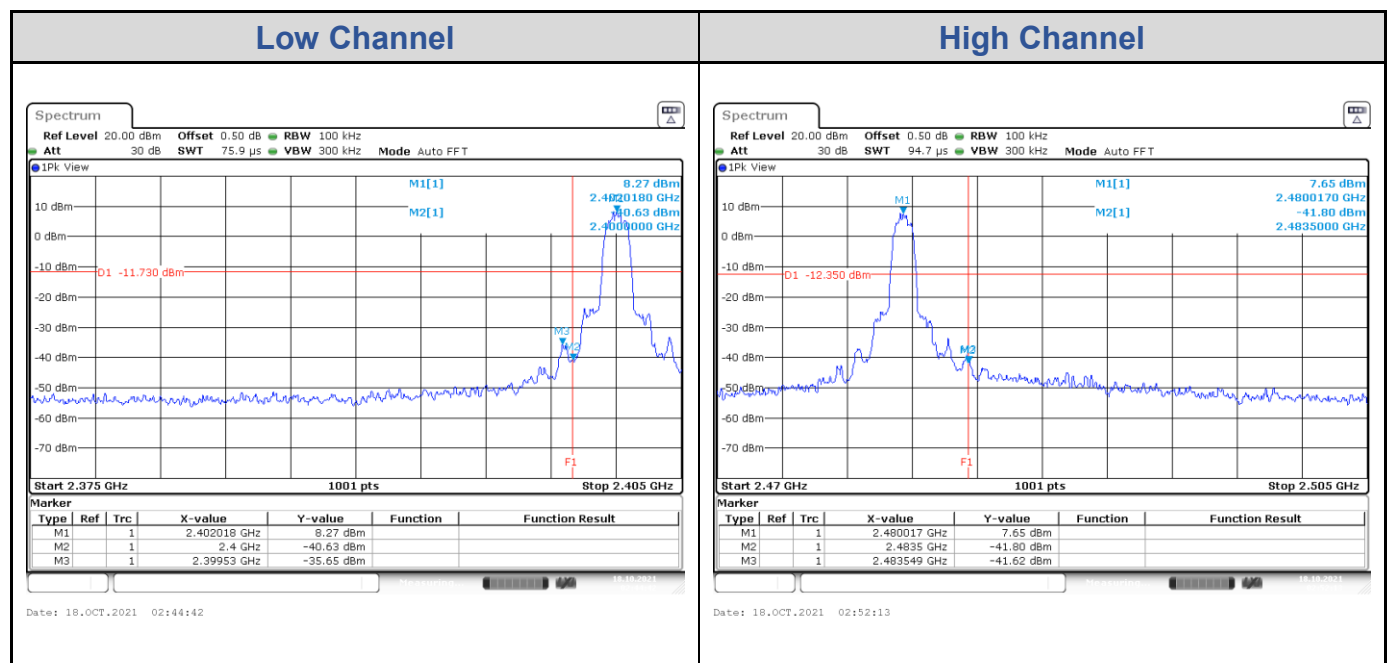


Test Result of Conducted Band Edge, Tx Mode

GFSK

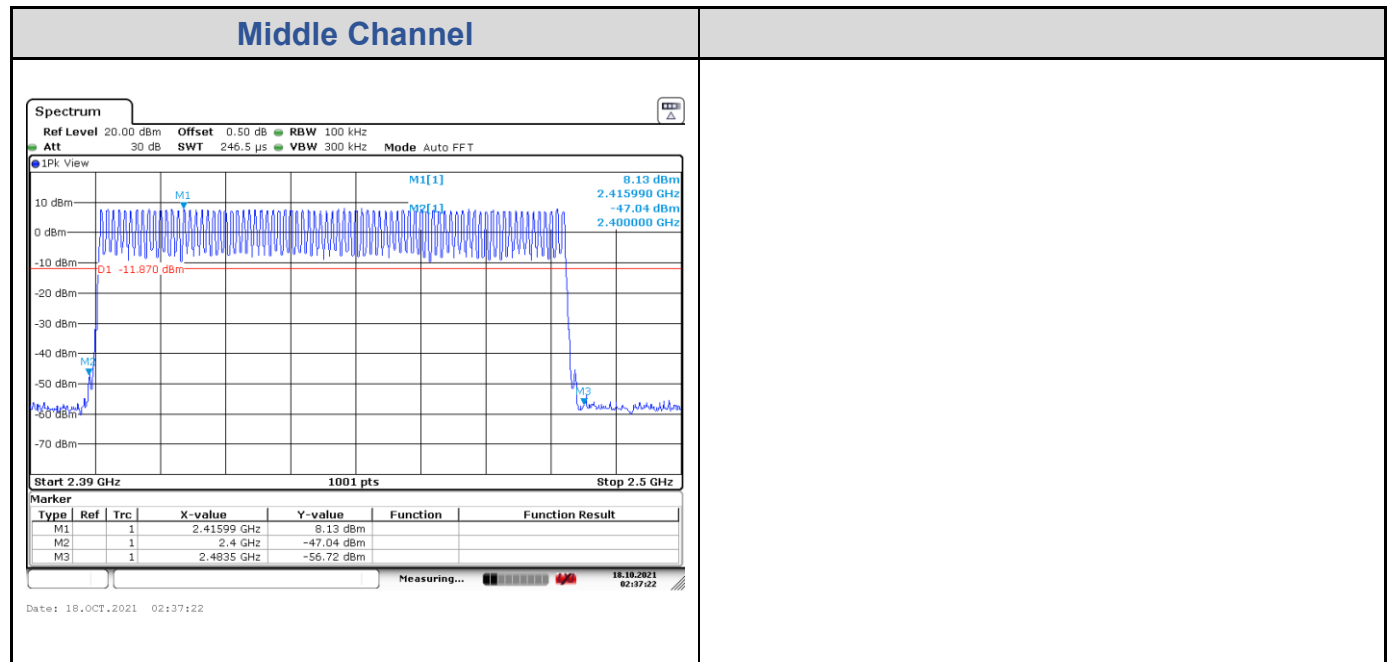


8DPSK

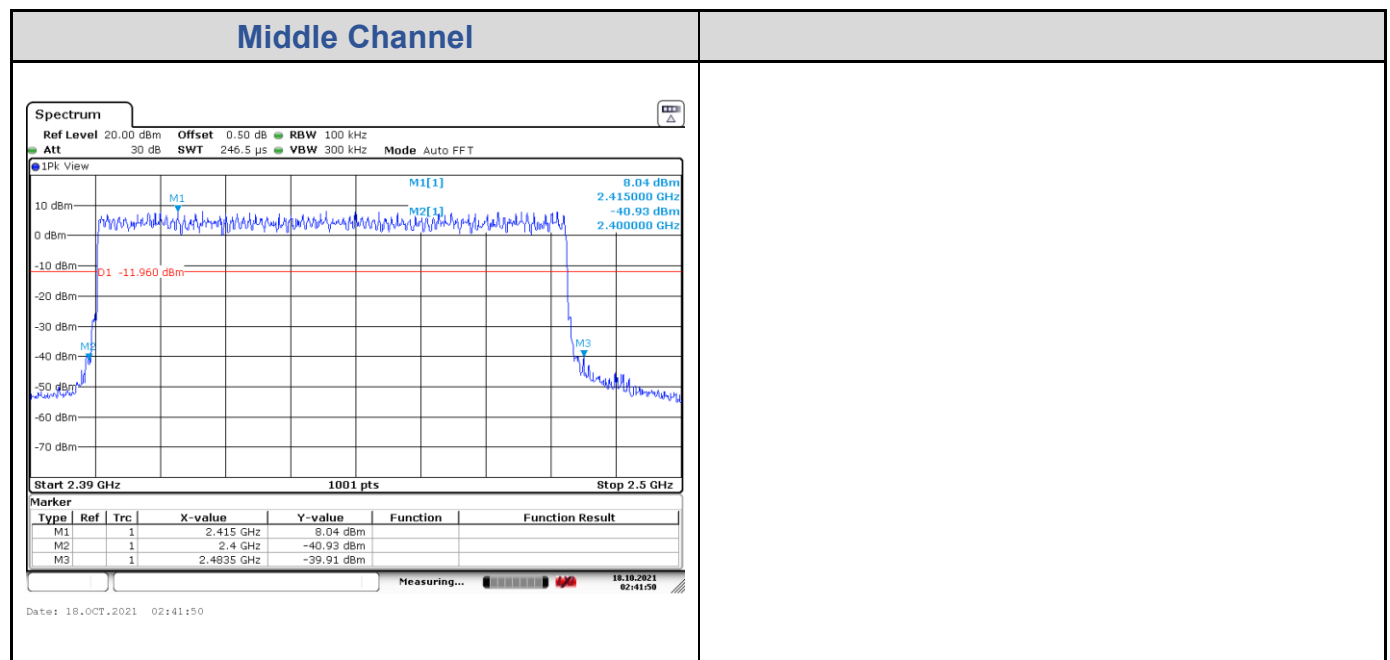


Test Result of Hopping Band Edge

GFSK



8DPSK

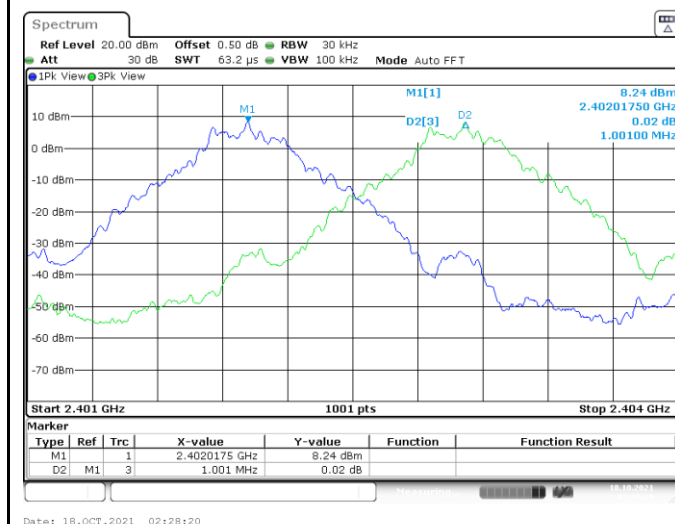


Test Result of Hopping Channel Separation

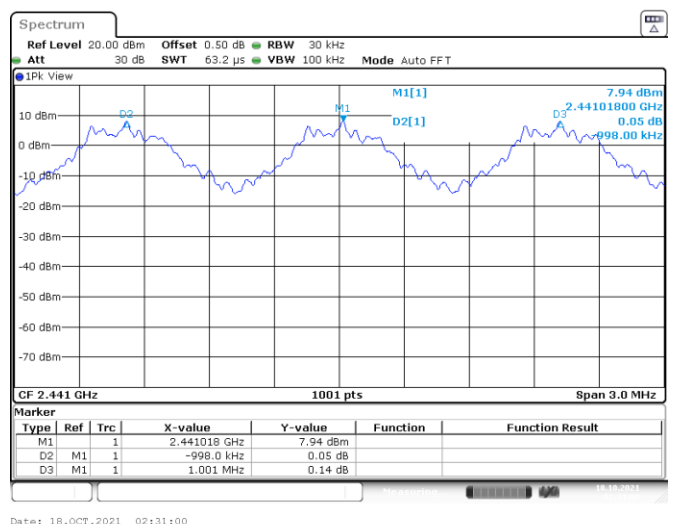
GFSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	860.14	0.573	Pass
39	2441	1.00	860.14	0.573	Pass
78	2480	1.00	863.14	0.575	Pass

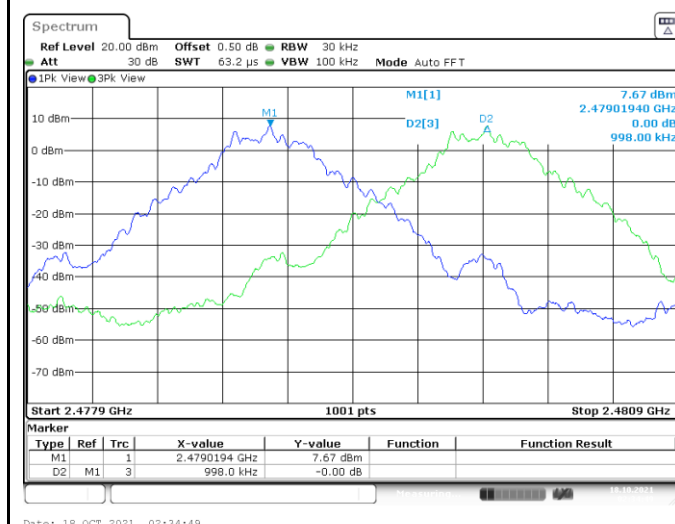
Low Channel



Middle Channel

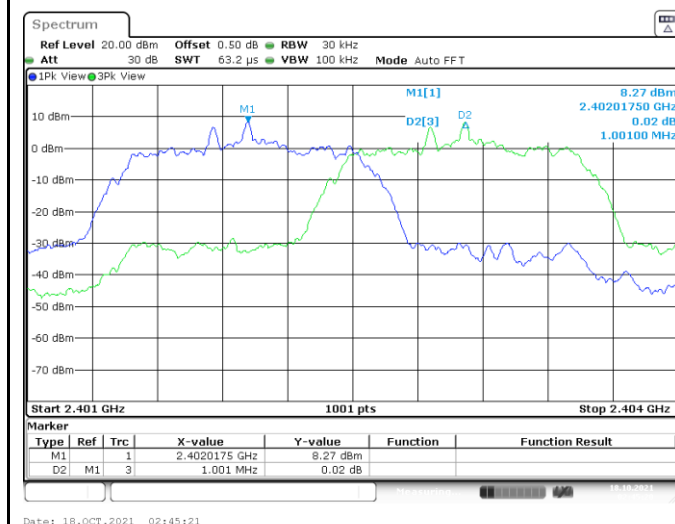
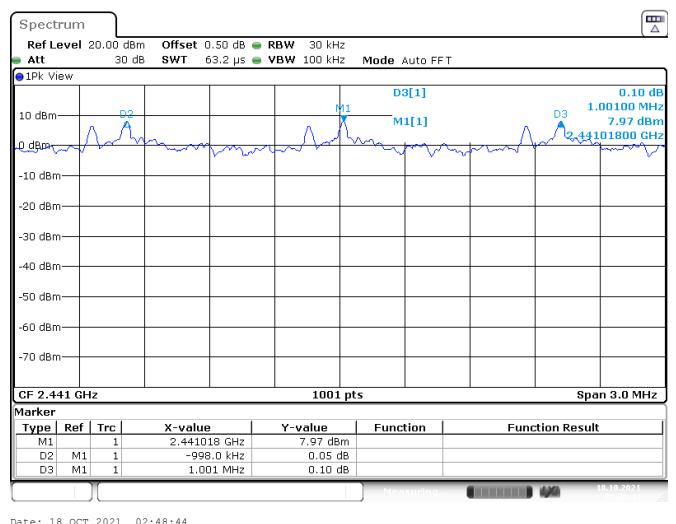
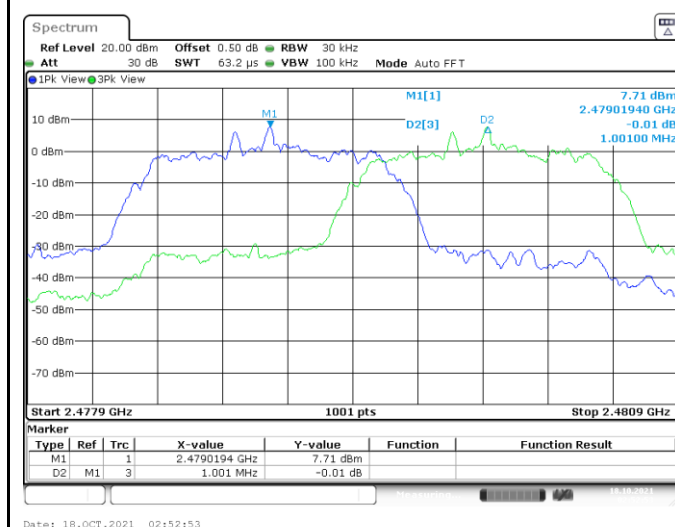


High Channel



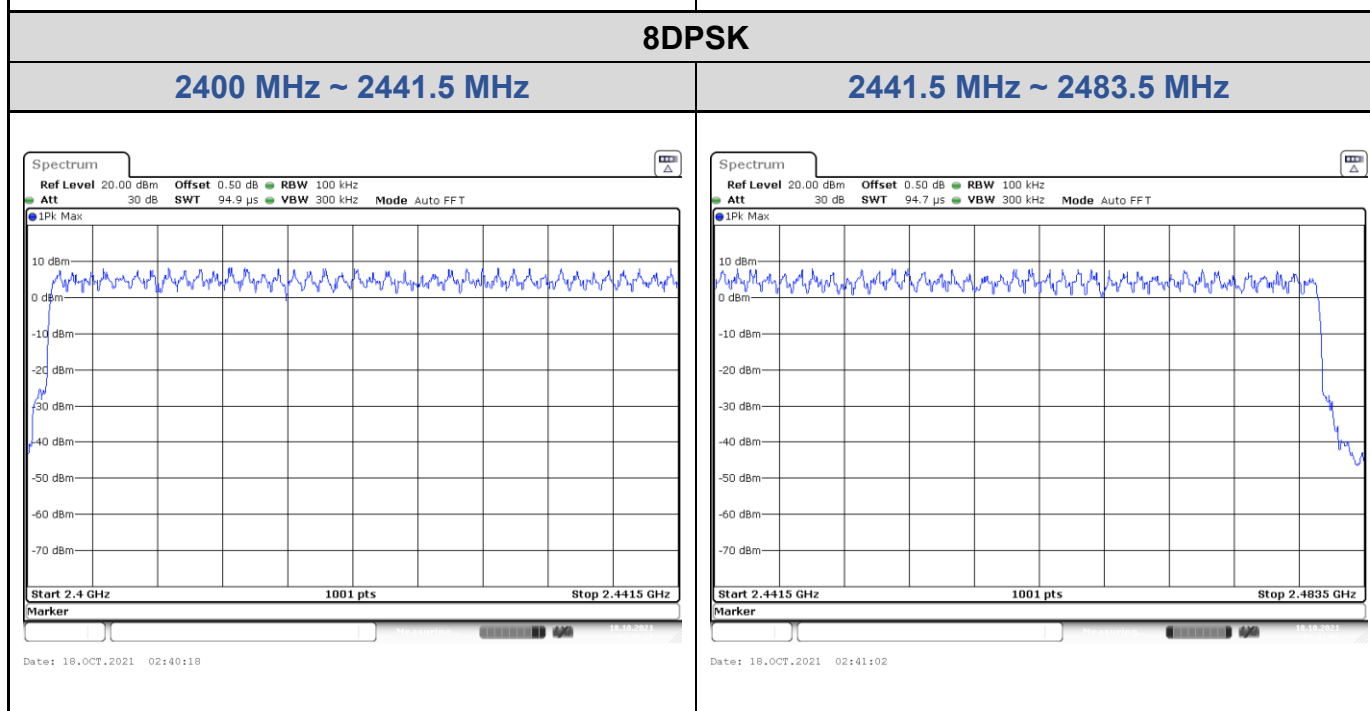
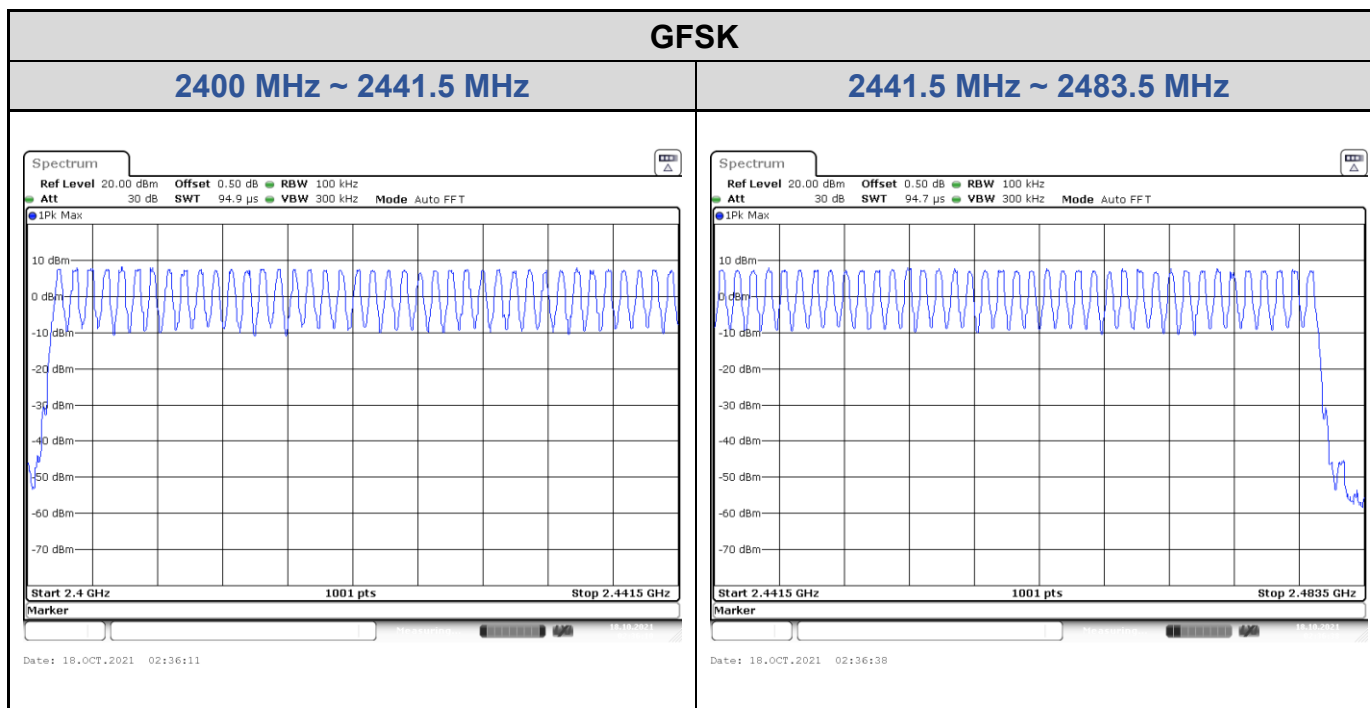
8DPSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	1258.74	0.839	Pass
39	2441	1.00	1258.74	0.839	Pass
78	2480	1.00	1258.70	0.839	Pass

Low Channel

Middle Channel

High Channel


Test Result of Number of Hopping Frequency

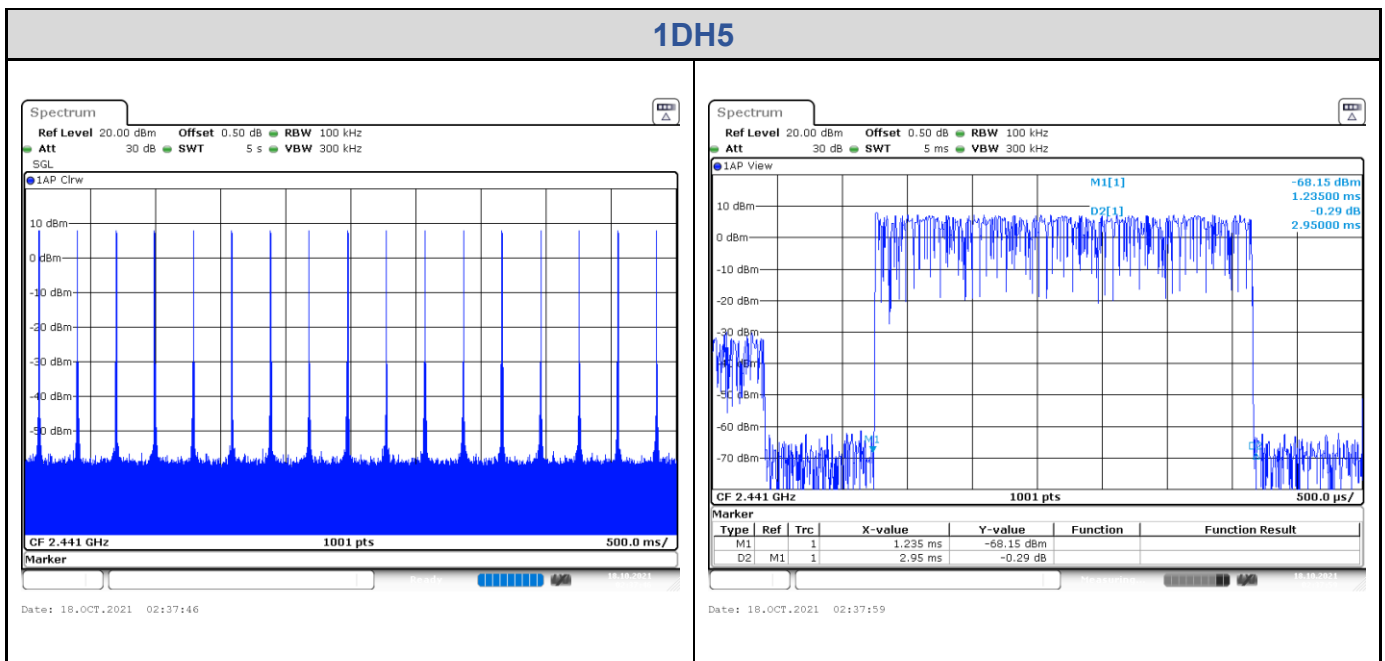
Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2400 to 2483.5 MHz	79	≥15	Pass



Test Result of Dwell Time

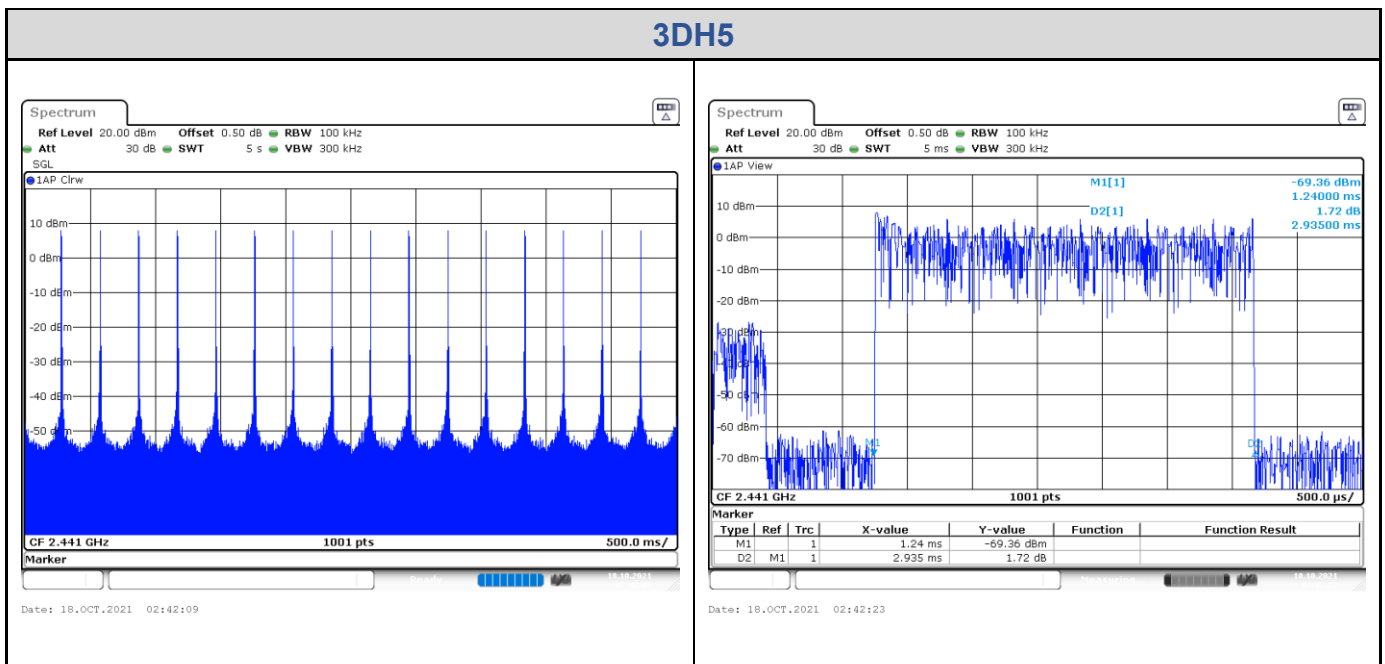
GFSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
1DH5	17 (times / 5 sec) * 6.32 = 107.44 times	2.95	0.316948	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	2.935	0.3153364	0.4	Pass



Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

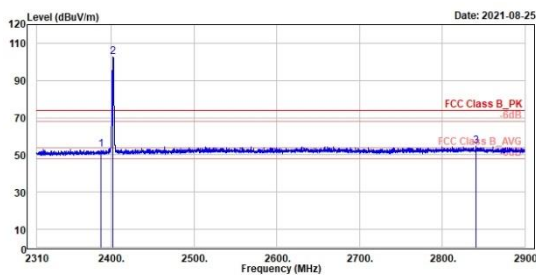
Band Edges, 2.31GHz ~ 2.9GHz

GFSK

Low Channel (Horizontal) Peak



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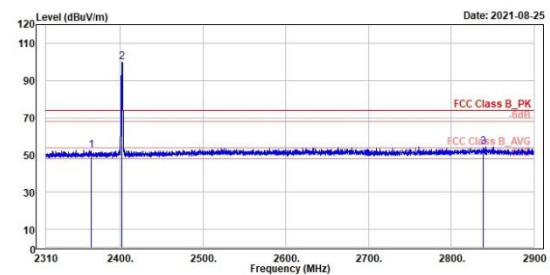


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.17	52.91	15.61	37.30	74.00	-21.09	195	205	Peak	Horizontal	
2 *	2402.00	102.73	65.41	37.32	74.00	28.73	195	205	Peak	Horizontal	
3	2841.47	54.55	16.32	38.23	74.00	-19.45	195	205	Peak	Horizontal	

Low Channel (Vertical) Peak



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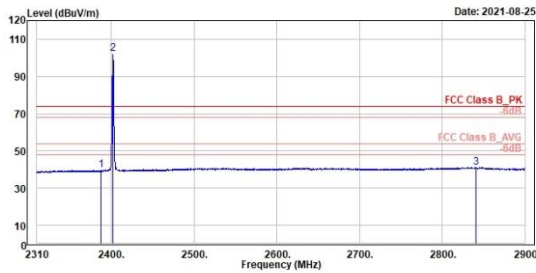
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2364.63	52.29	15.02	37.27	74.00	-21.71	281	93	Peak	Vertical	
2 *	2402.00	100.12	62.80	37.32	74.00	26.12	281	93	Peak	Vertical	
3	2838.64	54.51	16.29	38.22	74.00	-19.49	281	93	Peak	Vertical	

GFSK

Low Channel (Horizontal) Average



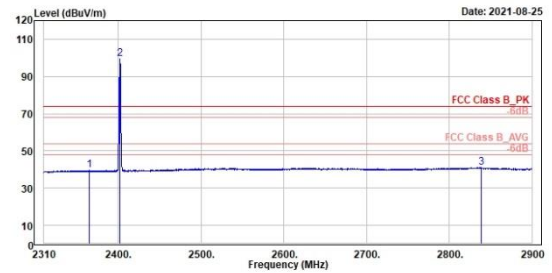
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2387.17	39.72	2.42	37.30	54.00	-14.28	195	205	Average	Horizontal	
2 *	2402.00	102.25	64.93	37.32	54.00	48.25	195	205	Average	Horizontal	
3	2841.47	41.08	2.85	38.23	54.00	-12.92	195	205	Average	Horizontal	



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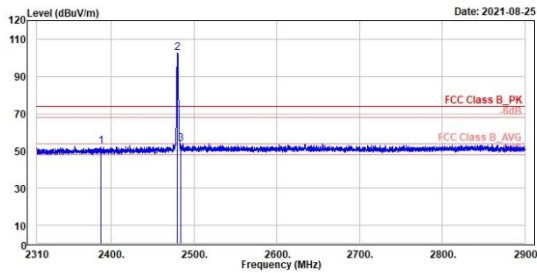
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2364.63	39.49	2.22	37.27	54.00	-14.51	281	93	Average	Vertical	
2 *	2402.00	99.31	61.99	37.32	54.00	45.31	281	93	Average	Vertical	
3	2838.64	41.18	2.96	38.22	54.00	-12.82	281	93	Average	Vertical	

GFSK

High Channel (Horizontal) Peak



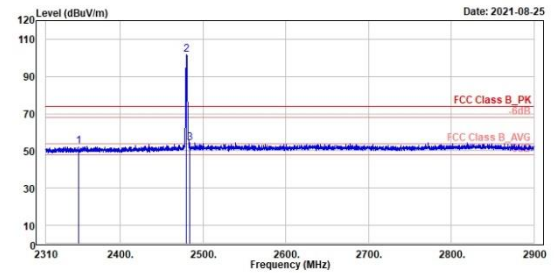
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.29	52.25	14.95	37.30	74.00	-21.75	187	203	Peak	Horizontal	
2 *	2488.00	102.49	64.89	37.69	74.00	28.49	187	203	Peak	Horizontal	
3	2483.93	53.94	16.23	37.71	74.00	-20.06	187	203	Peak	Horizontal	



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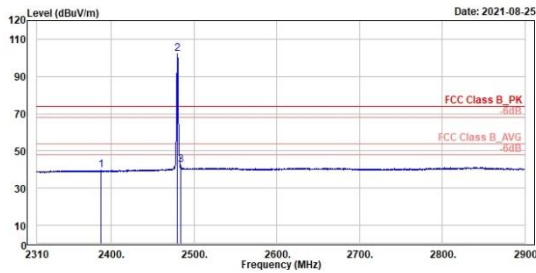
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2358.00	52.27	15.01	37.26	74.00	-21.73	125	245	Peak	Vertical	
2 *	2488.00	101.79	64.81	37.69	74.00	27.79	125	245	Peak	Vertical	
3	2484.05	54.38	16.67	37.71	74.00	-19.62	125	245	Peak	Vertical	

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High Channel (Horizontal) Average



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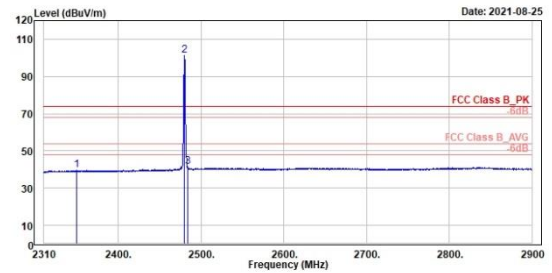


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.29	39.54	2.24	37.30	54.00	-14.46	187	203	Average	Horizontal	
2 *	2480.00	102.00	64.39	37.69	54.00	48.00	187	203	Average	Horizontal	
3	2483.93	42.21	4.50	37.71	54.00	-11.79	187	203	Average	Horizontal	

High Channel (Vertical) Average



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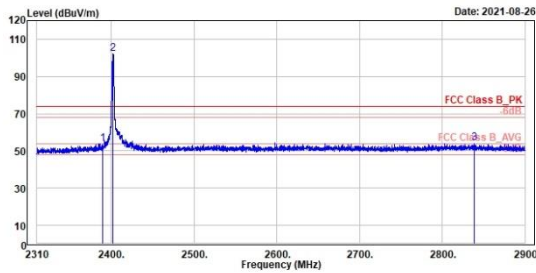
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2350.00	39.49	2.23	37.26	54.00	-14.51	125	245	Average	Vertical	
2 *	2480.00	101.30	63.01	37.69	54.00	47.30	125	245	Average	Vertical	
3	2484.05	41.59	3.88	37.71	54.00	-12.41	125	245	Average	Vertical	

8DPSK

Low Channel (Horizontal) Peak



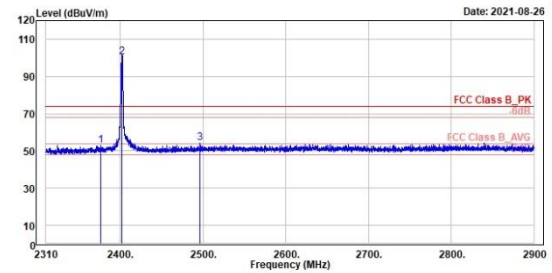
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2398.00	53.88	16.58	37.30	74.00	-20.12	258			75 Peak	Horizontal	
2 *	2402.00	102.10	64.78	37.32	74.00	28.10	258			75 Peak	Horizontal	
3	2839.11	54.26	16.04	38.22	74.00	-19.74	258			75 Peak	Horizontal	



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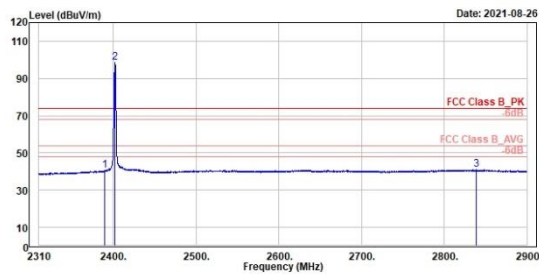
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2376.43	52.78	15.49	37.29	74.00	-21.22	308			237 Peak	Vertical	
2 *	2402.00	100.54	63.22	37.32	74.00	26.54	308			237 Peak	Vertical	
3	2496.68	54.21	16.40	37.81	74.00	-19.79	308			237 Peak	Vertical	

8DPSK

Low Channel (Horizontal) Average



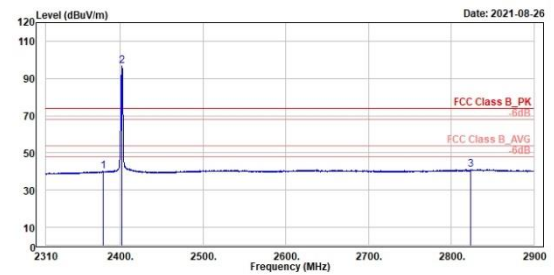
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2398.00	40.42	3.12	37.30	54.00	-13.58		258	75	Average	Horizontal	
2 *	2402.00	98.49	61.17	37.32	54.00	44.49		258	75	Average	Horizontal	
3	2839.11	41.00	2.78	38.22	54.00	-13.00		258	75	Average	Horizontal	



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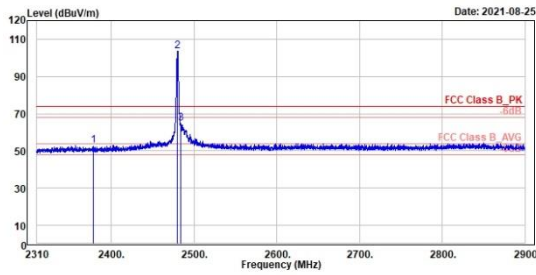
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB		cm	deg			
1	2379.74	40.30	3.01	37.29	54.00	-13.70		308	237	Average	Vertical	
2 *	2402.00	98.90	59.58	37.32	54.00	42.90		308	237	Average	Vertical	
3	2823.65	41.08	2.87	38.21	54.00	-12.92		308	237	Average	Vertical	

8DPSK

High Channel (Horizontal) Peak



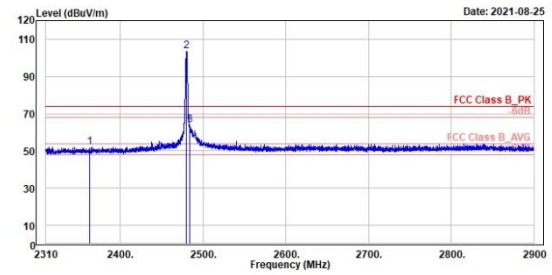
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2378.20	52.72	15.43	37.29	74.00	-21.28	106	201	Peak	Horizontal	
2 *	2480.00	103.65	65.96	37.69	74.00	29.65	106	201	Peak	Horizontal	
3	2483.46	64.59	26.88	37.71	74.00	-9.41	106	201	Peak	Horizontal	



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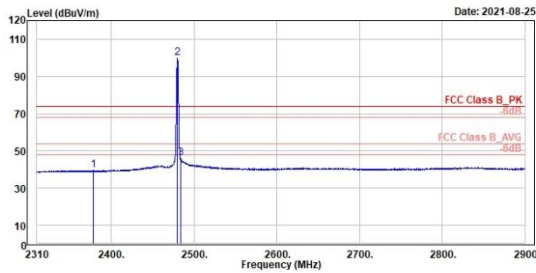
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2362.75	52.12	14.85	37.27	74.00	-21.88	106	275	Peak	Vertical	
2 *	2480.00	103.40	65.71	37.69	74.00	29.40	106	275	Peak	Vertical	
3	2483.58	63.89	26.18	37.71	74.00	-10.11	106	275	Peak	Vertical	

8DPSK

High Channel (Horizontal) Average



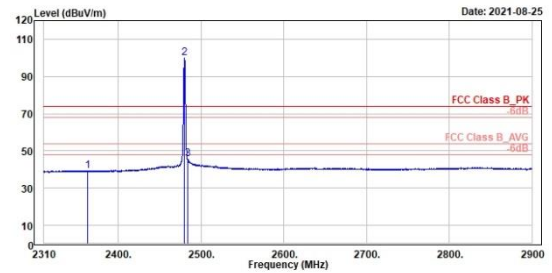
TÜV Rheinland Taiwan Ltd.
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2378.20	39.56	2.27	37.29	54.00	-14.44	106	201	Average	Horizontal	
2 *	2480.00	99.97	62.28	37.69	54.00	45.97	106	201	Average	Horizontal	
3	2483.46	45.90	8.19	37.71	54.00	-8.10	106	201	Average	Horizontal	



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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	2362.75	39.46	2.19	37.27	54.00	-14.54	106	275	Average	Vertical	
2 *	2480.00	99.75	62.06	37.69	54.00	45.75	106	275	Average	Vertical	
3	2483.58	45.67	7.96	37.71	54.00	-8.33	106	275	Average	Vertical	

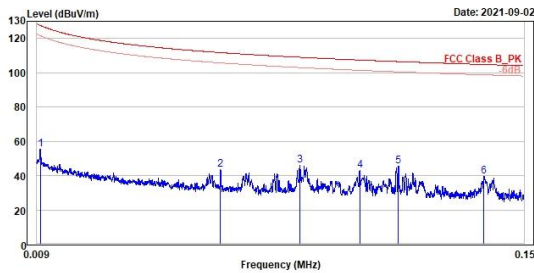
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

GFSK

Middle Channel (Open) 9kHz~150kHz



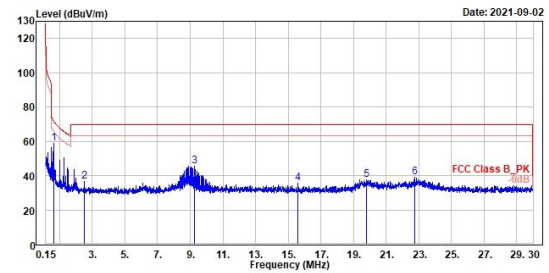
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	55.57	35.63	19.94	127.57	-72.00	100	236	QP	Open		
2	0.06	43.44	23.19	20.25	111.72	-68.28	100	211	QP	Open		
3	0.09	45.87	25.66	20.21	109.00	-63.13	100	160	QP	Open		
4	0.10	43.04	22.84	20.20	107.38	-64.34	100	221	QP	Open		
5	0.11	45.52	25.33	20.19	106.48	-60.96	100	176	QP	Open		
6	0.14	39.78	19.62	20.16	104.77	-64.99	100	169	QP	Open		



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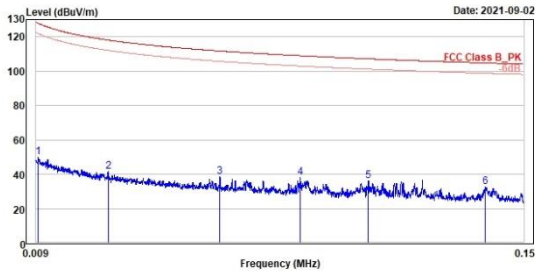
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.63	58.62	38.55	20.07	71.65	-13.03	100	181	QP	Open		
2	2.51	36.44	16.30	20.14	69.50	-33.06	100	181	QP	Open		
3	9.25	45.45	25.05	20.40	69.50	-24.05	100	285	QP	Open		
4	15.58	35.78	15.20	20.58	69.50	-33.72	100	149	QP	Open		
5	19.79	37.58	16.94	20.64	69.50	-31.92	100	61	QP	Open		
6	22.74	39.02	18.33	20.69	69.50	-30.48	100	0	QP	Open		

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Middle Channel (Close) 9kHz~150kHz



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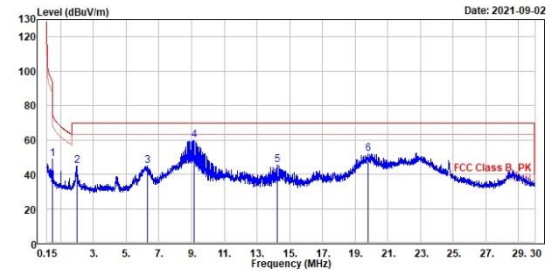


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	49.74	29.78	19.96	127.85	-78.11	100	126	QP	Close		
2	0.03	41.47	21.20	20.27	118.89	-76.62	100	200	QP	Close		
3	0.06	38.33	18.08	20.25	111.72	-73.39	100	100	QP	Close		
4	0.09	37.88	17.67	20.21	108.97	-71.09	100	134	QP	Close		
5	0.11	36.06	15.87	20.19	107.16	-71.10	100	132	QP	Close		
6	0.14	32.50	12.34	20.16	104.74	-72.24	100	151	QP	Close		

Middle Channel (Close) 150kHz~30MHz



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	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	0.50	49.17	29.09	20.08	73.59	-24.42	100	108	QP	Close		
2	1.97	44.81	24.68	20.13	69.50	-24.69	100	145	QP	Close		
3	6.29	44.90	24.62	20.28	69.50	-24.60	100	82	QP	Close		
4	9.16	59.84	39.45	20.39	69.50	-9.66	100	2	QP	Close		
5	14.25	45.34	24.79	20.55	69.50	-24.16	100	300	QP	Close		
6	19.80	51.85	31.21	20.64	69.50	-17.65	100	310	QP	Close		

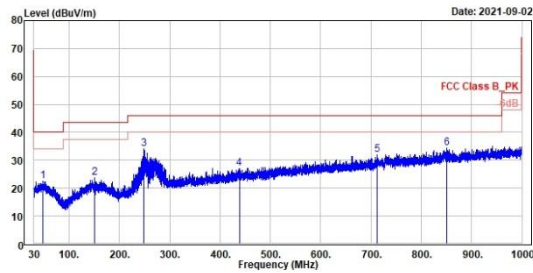
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

GFSK

Middle Channel (Horizontal)



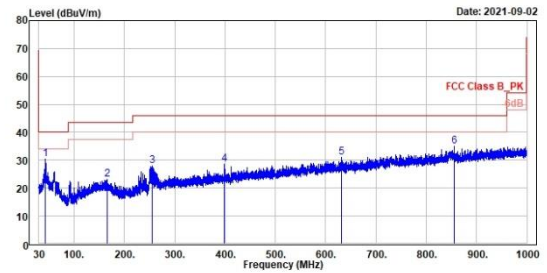
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	47.85	22.45	28.17	-5.72	40.00	-17.55	100	88	QP	Horizontal		
2	151.25	23.69	29.52	-5.83	43.50	-19.81	200	262	QP	Horizontal		
3	249.22	33.92	40.36	-6.44	46.00	-12.08	100	197	QP	Horizontal		
4	438.27	27.21	29.29	-2.08	46.00	-18.79	200	76	QP	Horizontal		
5	711.91	31.85	30.02	1.83	46.00	-14.15	100	119	QP	Horizontal		
6	850.62	34.42	30.29	4.13	46.00	-11.50	300	38	QP	Horizontal		



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	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	42.90	30.38	36.08	-5.70	40.00	-9.62	200	358	QP	Vertical		
2	166.19	23.20	28.95	-5.75	43.50	-20.30	100	211	QP	Vertical		
3	254.94	27.94	34.22	-6.28	46.00	-18.06	300	17	QP	Vertical		
4	398.60	28.74	31.60	-2.86	46.00	-17.26	100	114	QP	Vertical		
5	631.89	30.93	30.19	0.74	46.00	-15.07	400	297	QP	Vertical		
6	855.66	35.01	30.85	4.16	46.00	-10.99	100	3	QP	Vertical		

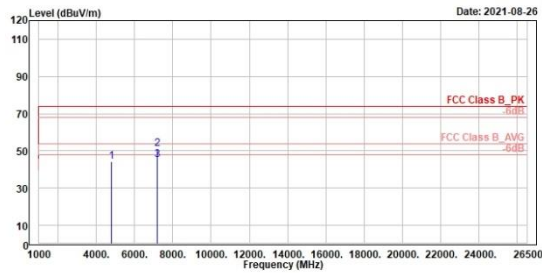
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

GFSK

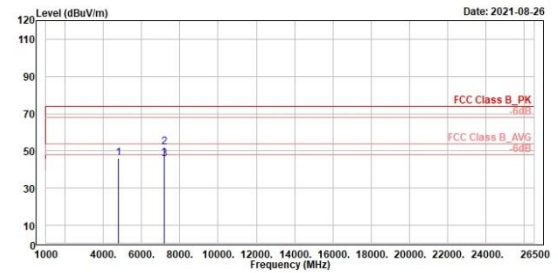
Low Channel (Horizontal)



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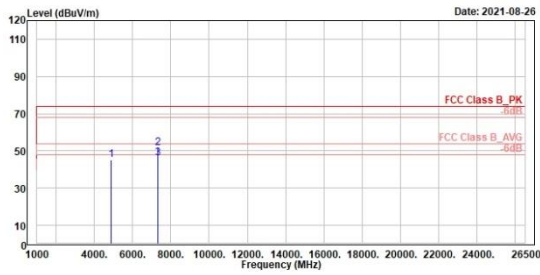


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Middle Channel (Horizontal)



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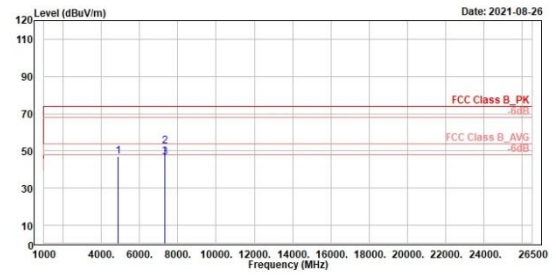


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	45.17	54.52	-9.35	74.00	-28.83	100	228	Peak	Horizontal	
2	7323.00	51.69	58.31	-6.62	74.00	-22.31	114	245	Peak	Horizontal	
3	7323.00	46.08	52.70	-6.62	54.00	-7.92	114	245	Average	Horizontal	

Middle Channel (Vertical)



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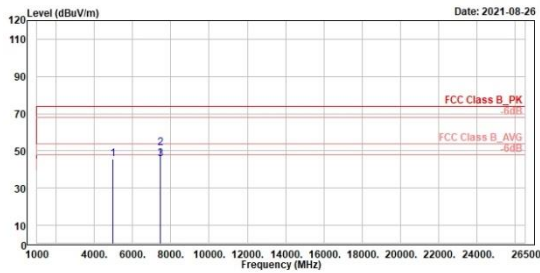
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	46.88	56.23	-9.35	74.00	-27.12	100	23	Peak	Vertical	
2	7323.00	52.33	58.95	-6.62	74.00	-21.67	113	276	Peak	Vertical	
3	7323.00	46.67	53.29	-6.62	54.00	-7.33	113	276	Average	Vertical	

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High Channel (Horizontal)



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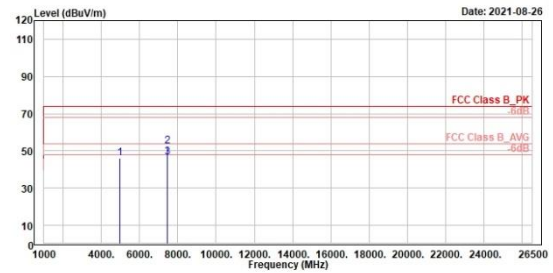


Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4968.00	45.40	54.67	-9.27	74.00	-28.60	100	118	Peak	Horizontal		
2	7440.00	51.54	58.13	-6.59	74.00	-22.46	106	242	Peak	Horizontal		
3	7440.00	45.75	52.34	-6.59	54.00	-8.25	106	242	Average	Horizontal		

High Channel (Vertical)



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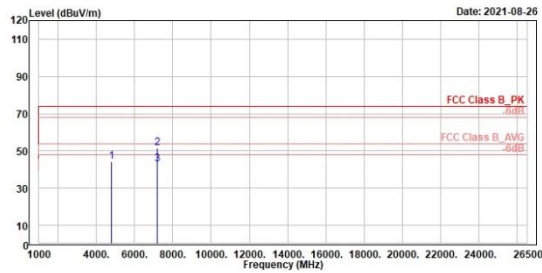
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4968.00	46.21	55.48	-9.27	74.00	-27.79	100	134	Peak	Vertical		
2	7440.00	52.48	59.07	-6.59	74.00	-21.52	139	263	Peak	Vertical		
3	7440.00	46.42	53.01	-6.59	54.00	-7.58	139	263	Average	Vertical		

8DPSK

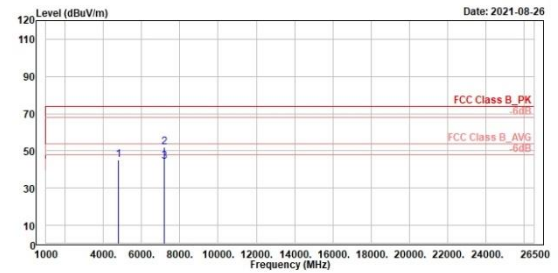
Low Channel (Horizontal)



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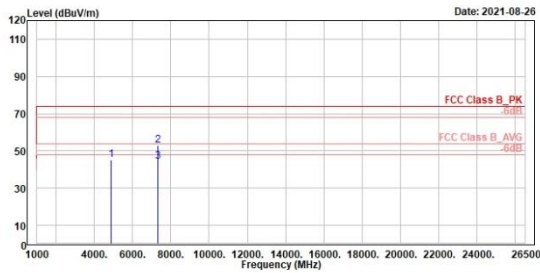


8DPSK

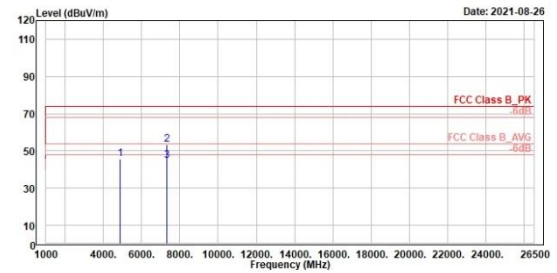
Middle Channel (Horizontal)



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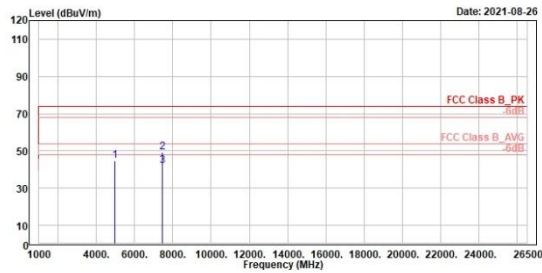


8DPSK

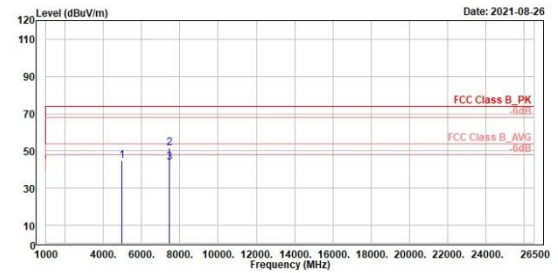
High Channel (Horizontal)



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Mains Conducted Emission, 150kHz ~ 30MHz

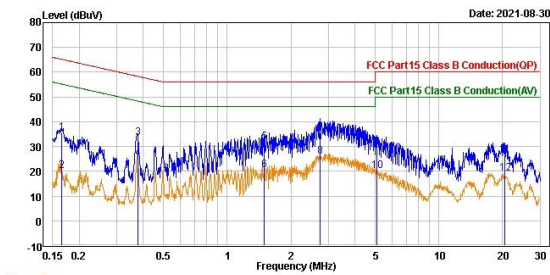
Worst Band

(Line)

(Neutral)



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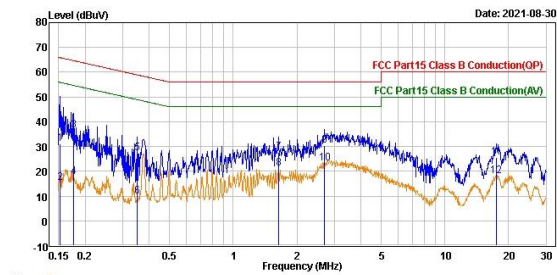


Trace: 1

	Freq	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dB			
1	0.165	25.68	9.66	65.21	-29.87	QP	line1	
2	0.165	10.32	9.66	55.21	-35.23	Average	line1	
3	0.377	23.95	9.65	58.34	-24.74	QP	line1	
4	0.377	15.65	9.65	48.34	-23.04	Average	line1	
5	1.500	21.93	9.67	56.00	-24.40	QP	line1	
6	1.500	10.95	9.67	46.00	-25.38	Average	line1	
7	2.756	25.90	9.69	56.00	-20.41	QP	line1	
8	2.756	16.33	9.69	46.00	-19.98	Average	line1	
9	5.007	19.90	9.72	60.00	-30.38	QP	line1	
10	5.007	10.38	9.72	50.00	-29.90	Average	line1	
11	20.438	17.00	9.72	60.00	-33.28	QP	line1	
12	20.438	9.25	9.72	50.00	-31.03	Average	line1	



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Trace: 1

	Freq	Read Level	Factor	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dB			
1	0.152	21.35	9.68	65.92	-34.89	QP	neutral	
2	0.152	5.49	9.68	55.92	-40.75	Average	neutral	
3	0.176	26.82	9.67	64.68	-28.19	QP	neutral	
4	0.176	8.21	9.67	54.68	-36.80	Average	neutral	
5	0.352	17.54	9.66	58.92	-31.72	QP	neutral	
6	0.352	0.03	9.66	48.92	-39.23	Average	neutral	
7	1.633	17.87	9.69	56.00	-28.44	QP	neutral	
8	1.633	11.44	9.69	46.00	-24.87	Average	neutral	
9	2.668	20.85	9.70	56.00	-25.45	QP	neutral	
10	2.668	13.66	9.70	46.00	-22.64	Average	neutral	
11	17.425	15.63	9.81	60.00	-34.56	QP	neutral	
12	17.425	8.26	9.81	50.00	-31.93	Average	neutral	