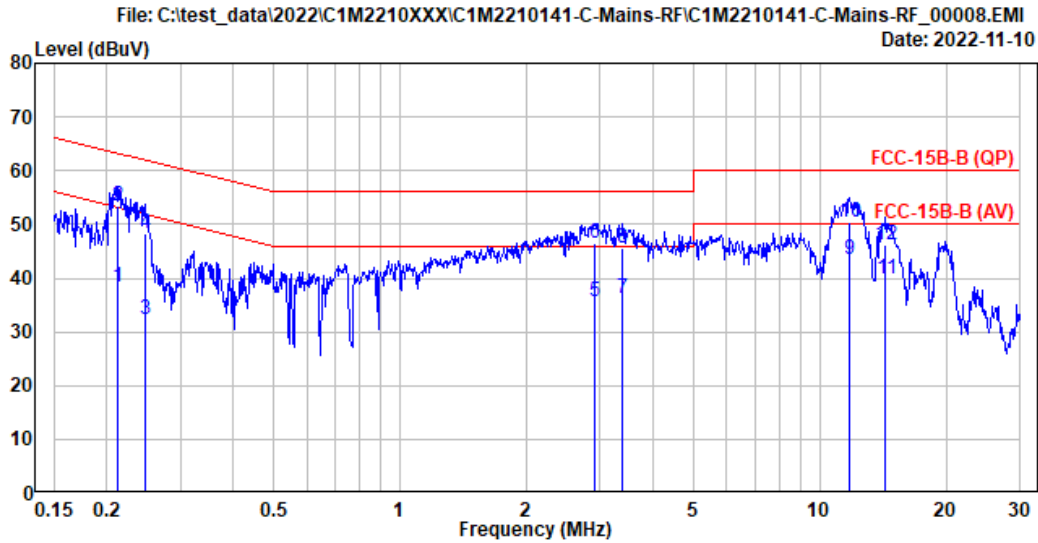


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A.1 CONDUCTED EMISSION

Test Date	2022/11/10	Temp./Hum.	26°C/64%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #1		



Site No.	: No.8 Shielded Room	Data No.	: 8
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Neutral
Environment	: 26°C/64 %	Engineer	: Roy Hung
EUT Model	: 16Z90R	Test Rating	: 120Vac/60Hz
Test Mode	: Normal		

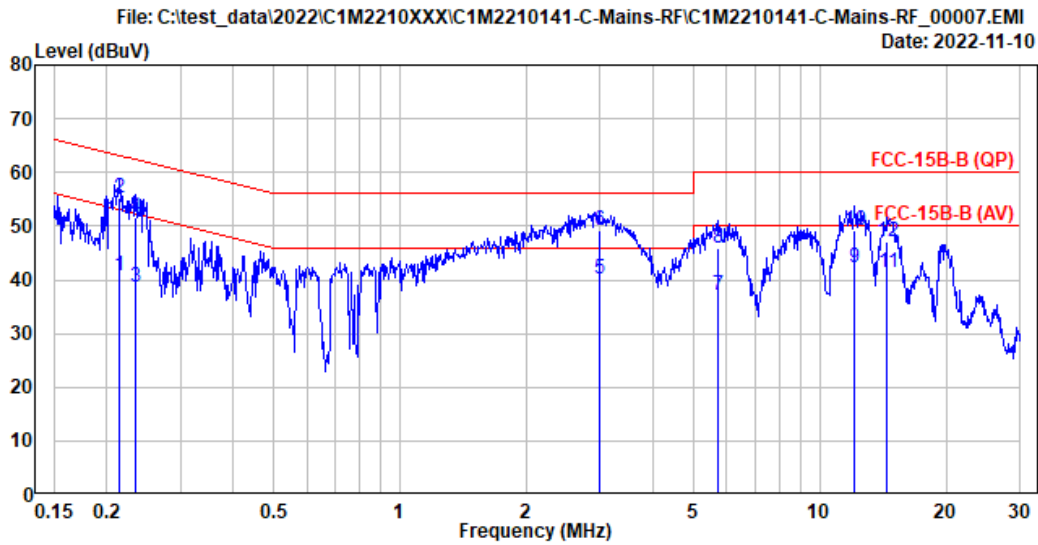
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.213	10.32	0.03	9.85	18.21	38.41	53.10	14.69	Average
2	0.213	10.32	0.03	9.85	33.33	53.53	63.10	9.57	QP
3	0.248	10.32	0.03	9.85	12.09	32.29	51.82	19.53	Average
4	0.248	10.32	0.03	9.85	28.03	48.23	61.82	13.59	QP
5	2.911	10.38	0.07	9.86	15.46	35.77	46.00	10.23	Average
6	2.911	10.38	0.07	9.86	26.14	46.45	56.00	9.55	QP
7	3.398	10.39	0.08	9.86	15.84	36.17	46.00	9.83	Average
8	3.398	10.39	0.08	9.86	25.35	45.68	56.00	10.32	QP
9	11.753	10.73	0.15	9.90	22.77	43.55	50.00	6.45	Average
10	11.753	10.73	0.15	9.90	29.61	50.39	60.00	9.61	QP
11	14.347	10.85	0.17	9.91	18.90	39.83	50.00	10.17	Average
12	14.347	10.85	0.17	9.91	25.14	46.07	60.00	13.93	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Audix Technology Corp.
 No. 491, Zhongfu Rd., Linkou Dist.,
 New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2022/11/10	Temp./Hum.	26°C/64%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #1		



Site No.	: No.8 Shielded Room	Data No.	: 7
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Line
Environment	: 26°C/64 %	Engineer	: Roy Hung
EUT Model	: 16290R	Test Rating	: 120Vac/60Hz
Test Mode	: Normal		

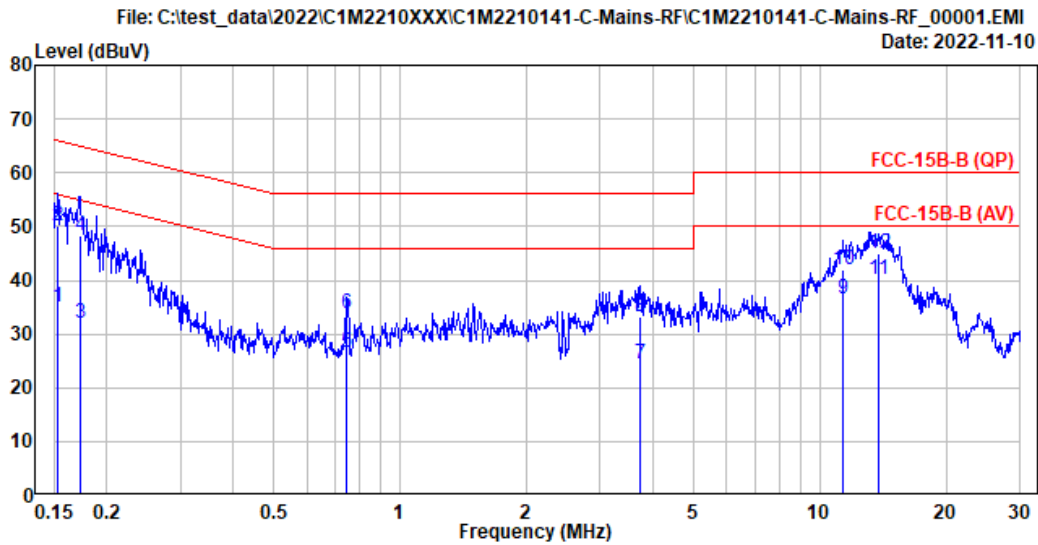
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.214	10.22	0.03	9.85	20.54	40.64	53.06	12.42	Average
2	0.214	10.22	0.03	9.85	35.19	55.29	63.06	7.77	QP
3	0.234	10.22	0.03	9.85	18.69	38.79	52.32	13.53	Average
4	0.234	10.22	0.03	9.85	31.64	51.74	62.32	10.58	QP
5	2.985	10.27	0.07	9.86	19.89	40.09	46.00	5.91	Average
6	2.985	10.27	0.07	9.86	28.88	49.08	56.00	6.92	QP
7	5.705	10.33	0.10	9.87	16.97	37.27	50.00	12.73	Average
8	5.705	10.33	0.10	9.87	25.45	45.75	60.00	14.25	QP
9	12.110	10.48	0.15	9.90	21.75	42.28	50.00	7.72	Average
10	12.110	10.48	0.15	9.90	28.59	49.12	60.00	10.88	QP
11	14.490	10.54	0.17	9.91	20.76	41.38	50.00	8.62	Average
12	14.490	10.54	0.17	9.91	26.54	47.16	60.00	12.84	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Test Date	2022/11/10	Temp./Hum.	26°C/64%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #2		



Site No.	: No.8 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Neutral
Environment	: 26°C/64 %	Engineer	: Roy Hung
EUT Model	: 16Z90R	Test Rating	: 120Vac/60Hz
Test Mode	: Normal		

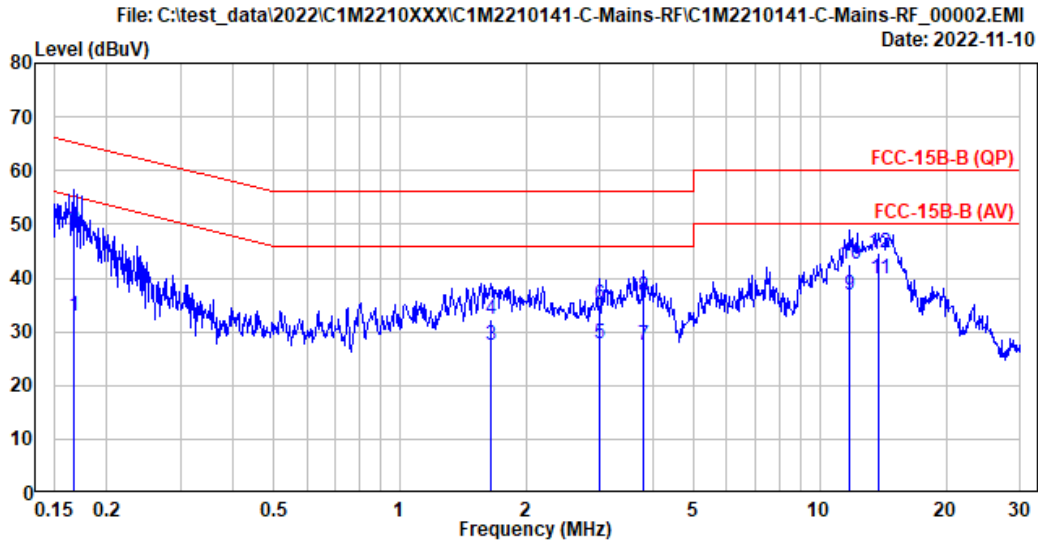
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.153	10.34	0.03	9.85	14.68	34.90	55.83	20.93	Average
2	0.153	10.34	0.03	9.85	29.90	50.12	65.83	15.71	QP
3	0.172	10.33	0.03	9.85	11.87	32.08	54.84	22.76	Average
4	0.172	10.33	0.03	9.85	27.96	48.17	64.84	16.67	QP
5	0.747	10.33	0.04	9.85	6.20	26.42	46.00	19.58	Average
6	0.747	10.33	0.04	9.85	13.71	33.93	56.00	22.07	QP
7	3.735	10.40	0.08	9.86	4.04	24.38	46.00	21.62	Average
8	3.735	10.40	0.08	9.86	12.88	33.22	56.00	22.78	QP
9	11.407	10.71	0.15	9.90	15.80	36.56	50.00	13.44	Average
10	11.407	10.71	0.15	9.90	21.32	42.08	60.00	17.92	QP
11	13.786	10.82	0.16	9.91	19.19	40.08	50.00	9.92	Average
12	13.786	10.82	0.16	9.91	24.20	45.09	60.00	14.91	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

Audix Technology Corp.
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Test Date	2022/11/10	Temp./Hum.	26°C/64%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Roy Hung
Test SKU	SKU #2		



Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Line
Environment	: 26°C/64 %	Engineer	: Roy Hung
EUT Model	: 16Z90R	Test Rating	: 120Vac/60Hz
Test Mode	: Normal		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.167	10.22	0.03	9.85	12.90	33.00	55.09	22.09	Average
2	0.167	10.22	0.03	9.85	28.74	48.84	65.09	16.25	QP
3	1.641	10.24	0.05	9.86	7.28	27.43	46.00	18.57	Average
4	1.641	10.24	0.05	9.86	12.23	32.38	56.00	23.62	QP
5	3.000	10.27	0.07	9.86	7.61	27.81	46.00	18.19	Average
6	3.000	10.27	0.07	9.86	14.73	34.93	56.00	21.07	QP
7	3.791	10.28	0.08	9.86	7.14	27.36	46.00	18.64	Average
8	3.791	10.28	0.08	9.86	16.18	36.40	56.00	19.60	QP
9	11.812	10.47	0.15	9.90	16.19	36.71	50.00	13.29	Average
10	11.812	10.47	0.15	9.90	22.08	42.60	60.00	17.40	QP
11	13.855	10.52	0.16	9.91	19.23	39.82	50.00	10.18	Average
12	13.855	10.52	0.16	9.91	24.20	44.79	60.00	15.21	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

A.2 RADIATED EMISSION

Test Date	2022/10/17~ 12/12	Temp./Hum.	20 ~ 24°C/52 ~ 63%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Hua Wu

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1GHz

- **Test SKU #1**

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.880	22.50	1.51	26.48	33.17	30.70	40.00	9.30	Peak
106.630	17.27	2.70	26.24	33.63	27.36	43.50	16.14	Peak
163.860	16.17	3.34	25.93	37.75	31.33	43.50	12.17	Peak
212.360	16.18	3.85	25.76	36.68	30.95	43.50	12.55	Peak
378.230	21.18	5.69	26.28	36.43	37.02	46.00	8.98	Peak
485.900	23.24	6.65	27.04	36.60	39.45	46.00	6.55	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.880	22.50	1.51	0.00	14.96	38.97	40.00	1.03	Peak
45.520	16.32	1.74	26.47	46.90	38.49	40.00	1.51	Peak
163.860	16.17	3.34	25.93	40.16	33.74	43.50	9.76	Peak
378.230	21.18	5.69	26.28	36.21	36.80	46.00	9.20	Peak
485.900	23.24	6.65	27.04	36.60	39.45	46.00	6.55	Peak
650.800	24.58	7.39	27.42	29.37	33.92	46.00	12.08	Peak

● **Test SKU #2**

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
32.910	22.70	1.48	26.48	32.48	30.18	40.00	9.82	Peak
106.630	17.27	2.70	26.24	33.07	26.80	43.50	16.70	Peak
164.830	16.12	3.36	25.93	37.31	30.86	43.50	12.64	Peak
212.360	16.18	3.85	25.76	37.42	31.69	43.50	11.81	Peak
378.230	21.18	5.69	26.28	38.49	39.08	46.00	6.92	Peak
485.900	23.24	6.65	27.04	35.82	38.67	46.00	7.33	Peak

Antenna at Vertical Polarization

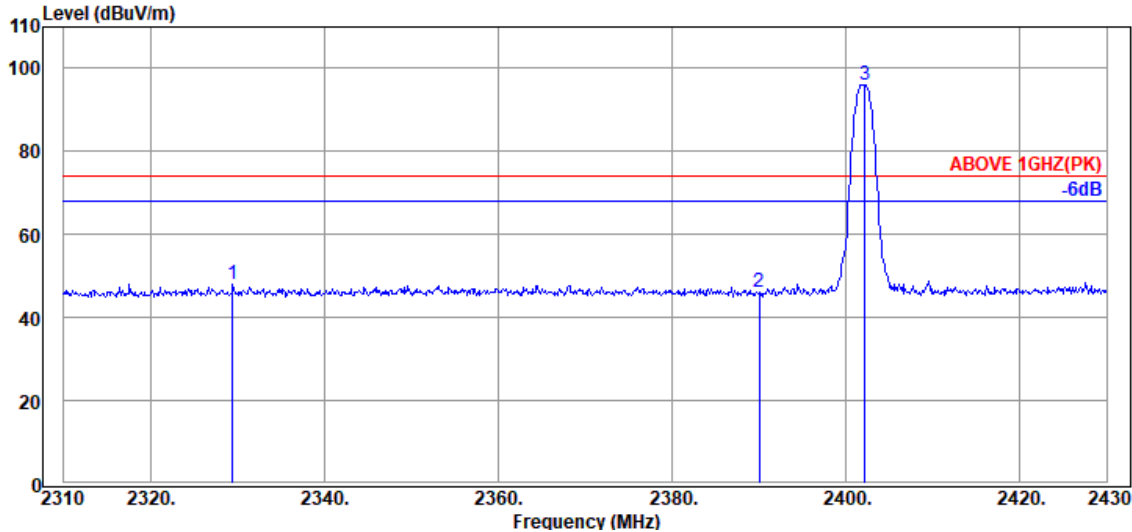
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
34.850	22.32	1.53	0.00	14.45	38.30	40.00	1.70	Peak
46.490	15.84	1.76	26.46	47.06	38.20	40.00	1.80	Peak
98.870	16.67	2.60	26.29	36.69	29.67	43.50	13.83	Peak
172.590	15.81	3.44	25.89	39.50	32.86	43.50	10.64	Peak
378.230	21.18	5.69	26.28	37.22	37.81	46.00	8.19	Peak
485.900	23.24	6.65	27.04	35.79	38.64	46.00	7.36	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

Band Edge:

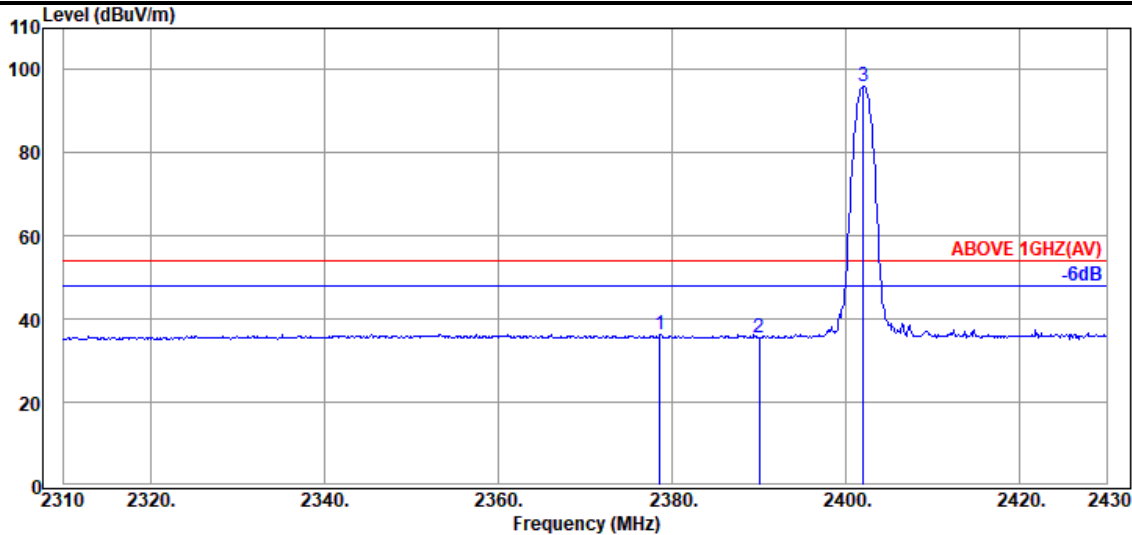
- **Test SKU #1 (with LUXSHARE-ICT Antenna)**

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2329.440	28.35	5.63	39.94	54.15	48.19	74.00	25.81	Peak
2390.040	28.21	5.72	39.93	52.06	46.06	74.00	27.94	Peak
@ 2402.160	28.10	5.74	39.93	102.25	96.16	---	---	Peak

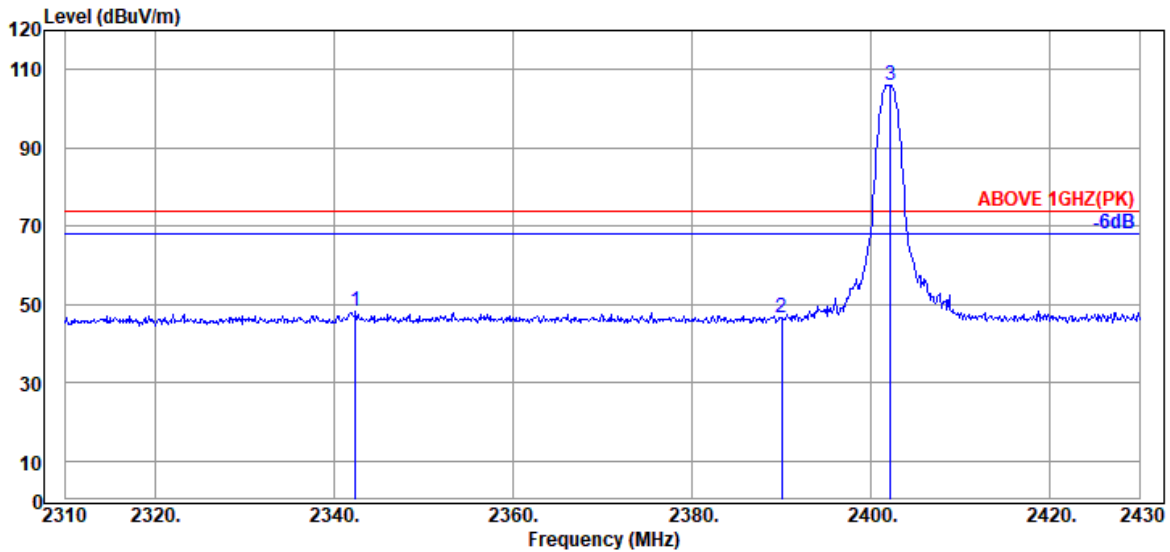


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2378.640	28.27	5.71	39.93	42.27	36.32	54.00	17.68	Average
2390.040	28.21	5.72	39.93	41.63	35.63	54.00	18.37	Average
@ 2402.040	28.10	5.74	39.93	102.07	95.98	---	---	Average

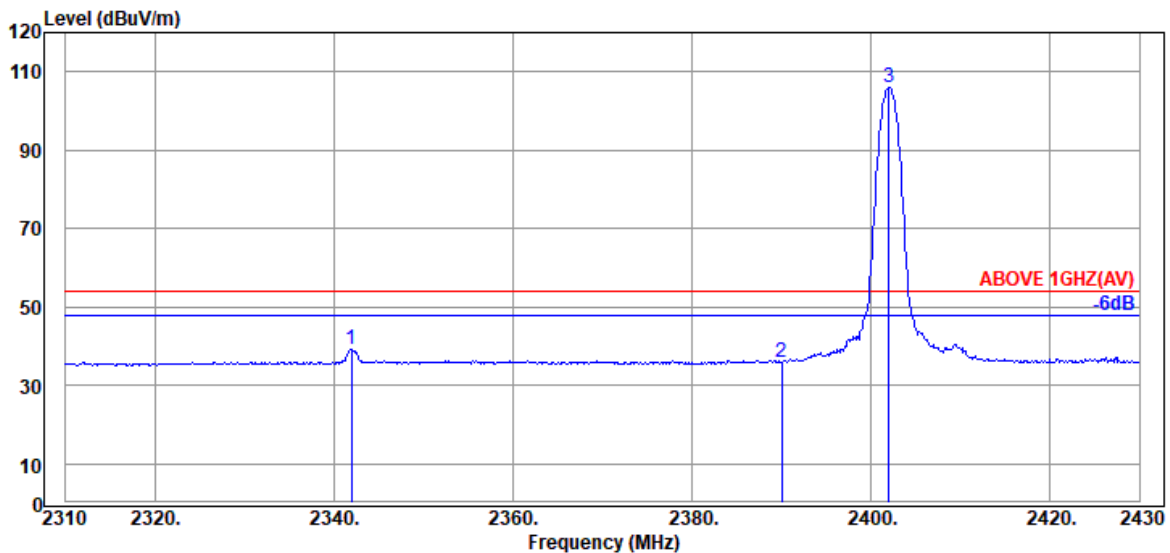
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2342.400	28.40	5.64	39.93	53.96	48.07	74.00	25.93	Peak
2390.040	28.21	5.72	39.93	52.61	46.61	74.00	27.39	Peak
@ 2402.160	28.10	5.74	39.93	112.18	106.09	---	---	Peak

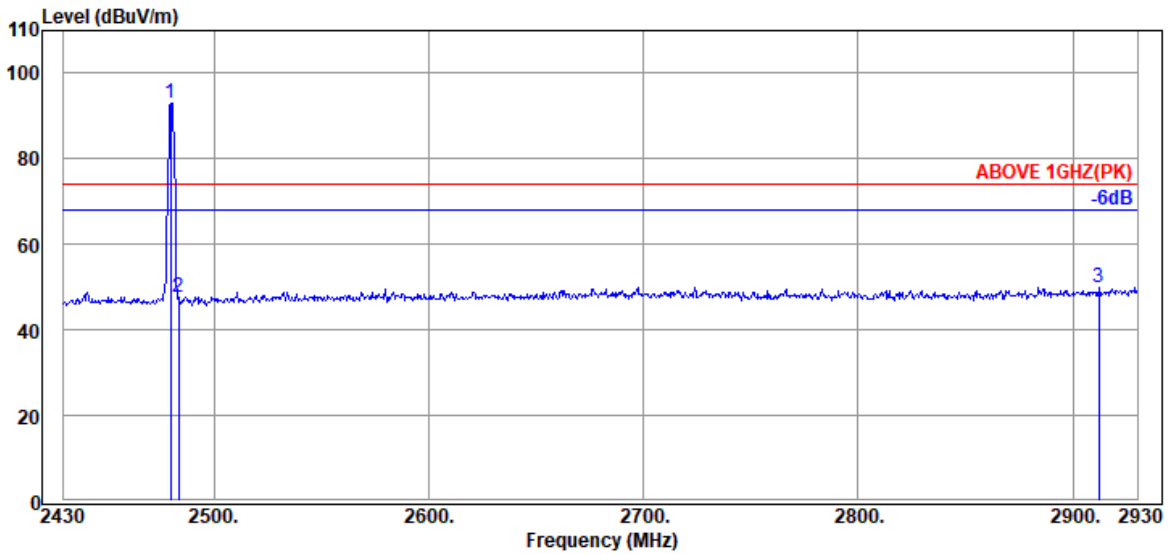


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2341.920	28.40	5.64	39.93	45.15	39.26	54.00	14.74	Average
2390.040	28.21	5.72	39.93	42.02	36.02	54.00	17.98	Average
@ 2402.040	28.10	5.74	39.93	112.08	105.99	---	---	Average

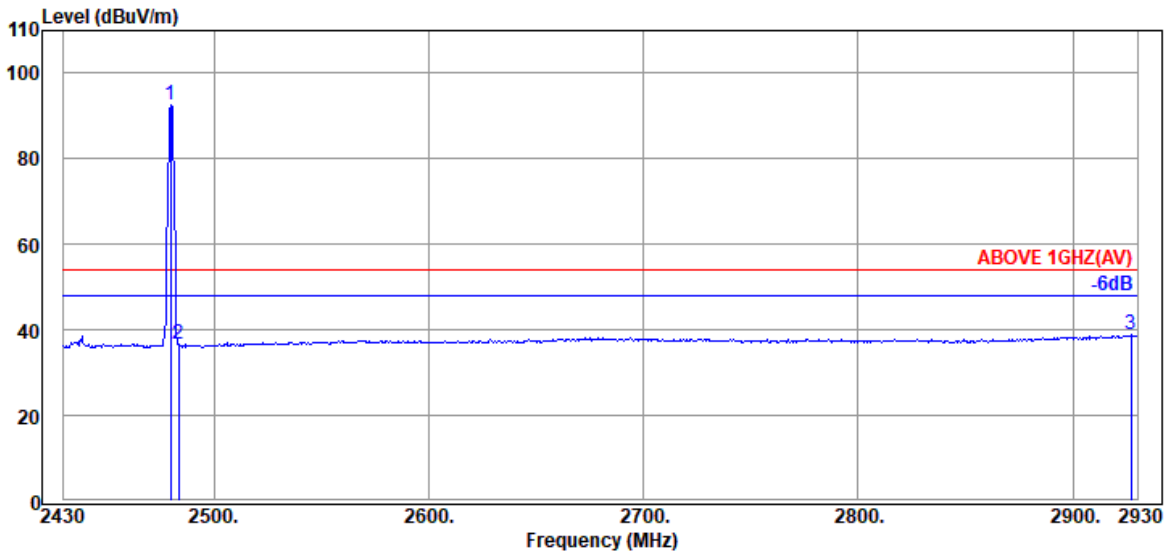
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	98.55	92.95	---	---	Peak
2483.500	28.47	5.87	39.92	53.23	47.65	74.00	26.35	Peak
2912.000	29.87	6.82	40.04	53.35	50.00	74.00	24.00	Peak

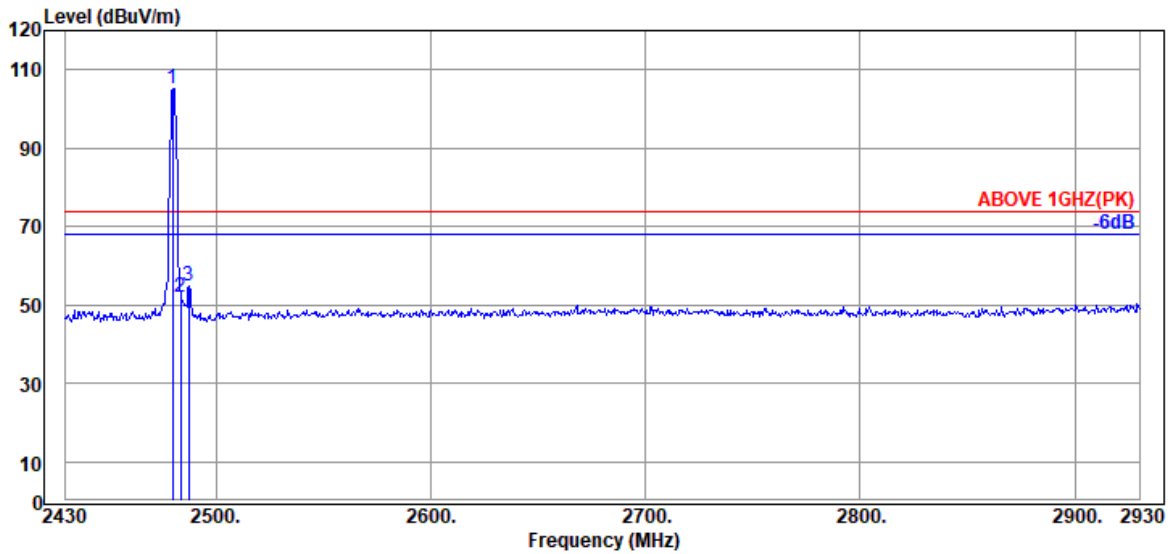


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	98.12	92.52	---	---	Average
2483.500	28.47	5.87	39.92	42.14	36.56	54.00	17.44	Average
2927.000	30.03	6.86	40.04	42.24	39.09	54.00	14.91	Average

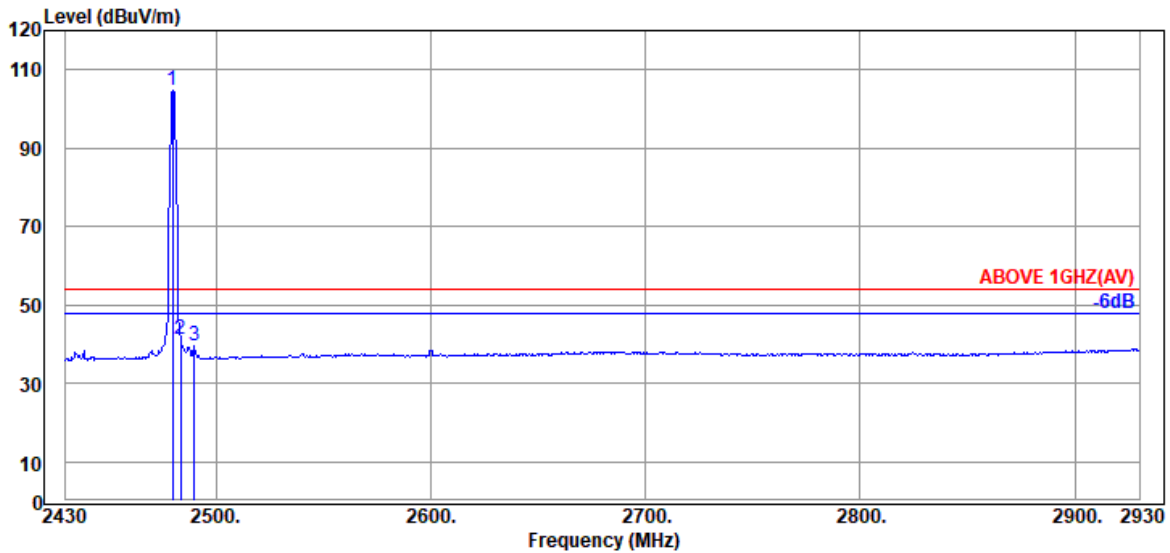
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	110.66	105.06	---	---	Peak
2483.500	28.47	5.87	39.92	57.67	52.09	74.00	21.91	Peak
2487.500	28.47	5.87	39.92	60.56	54.98	74.00	19.02	Peak

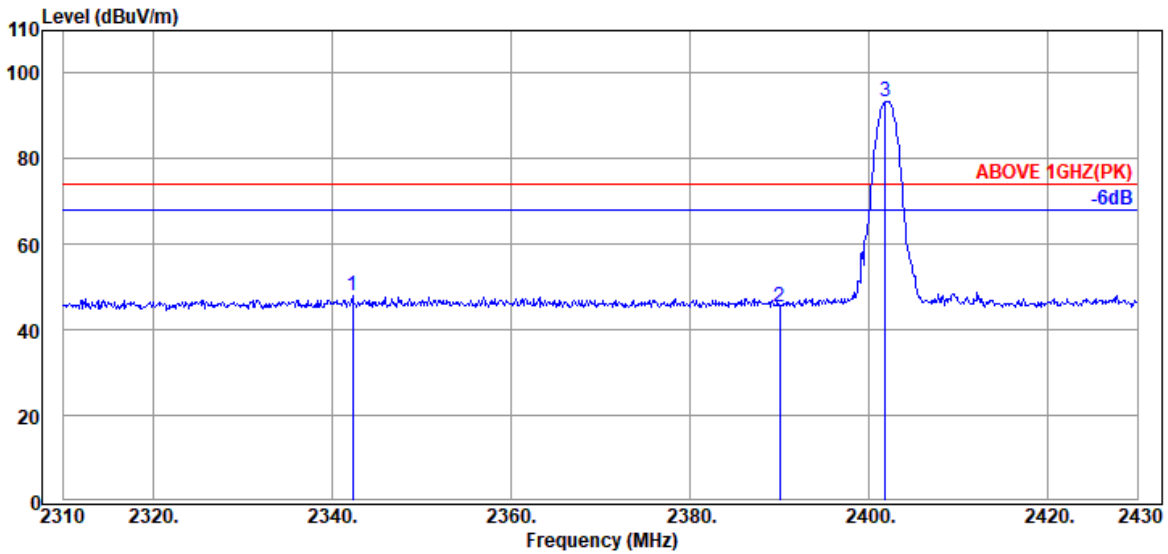


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	110.34	104.74	---	---	Average
2483.500	28.47	5.87	39.92	46.93	41.35	54.00	12.65	Average
2490.000	28.49	5.88	39.92	45.17	39.62	54.00	14.38	Average

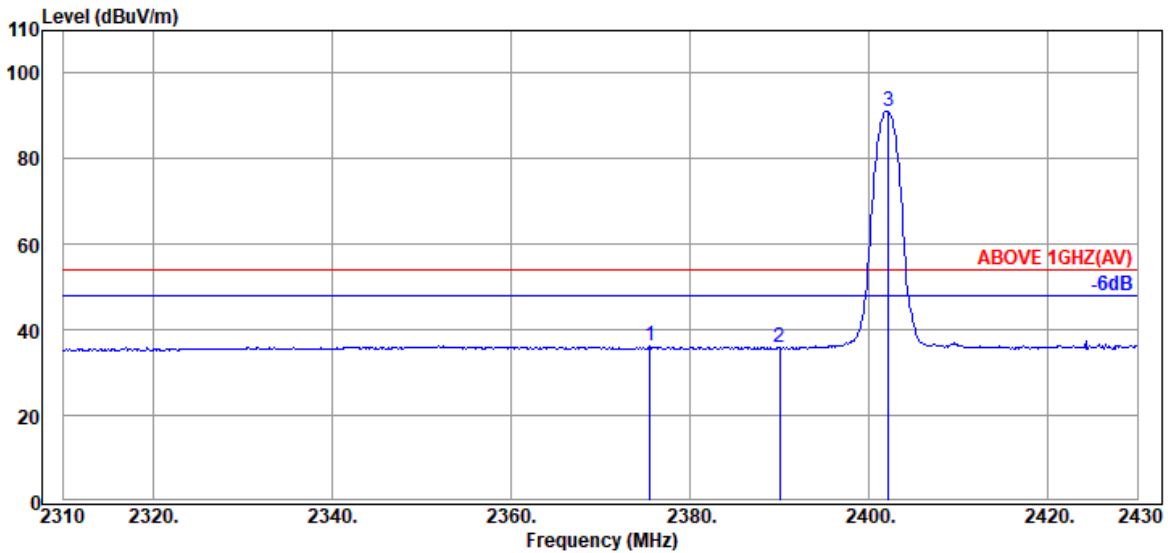
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2342.280	28.40	5.64	39.93	53.75	47.86	74.00	26.14	Peak
2390.040	28.21	5.72	39.93	51.42	45.42	74.00	28.58	Peak
@ 2401.800	28.10	5.74	39.93	99.60	93.51	---	---	Peak

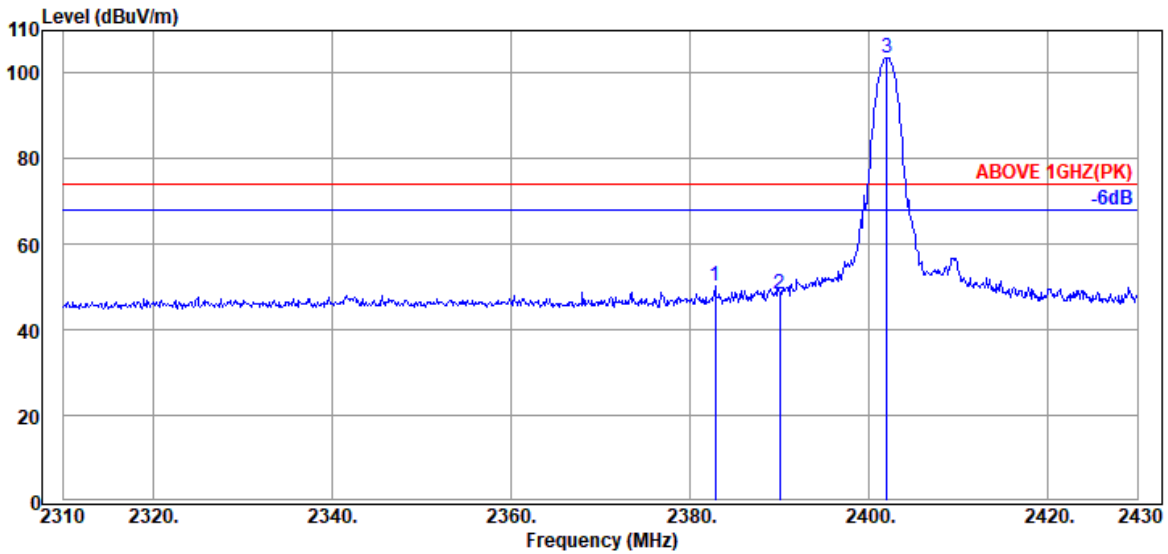


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2375.520	28.33	5.70	39.93	42.07	36.17	54.00	17.83	Average
2390.040	28.21	5.72	39.93	41.83	35.83	54.00	18.17	Average
@ 2402.160	28.10	5.74	39.93	97.36	91.27	---	---	Average

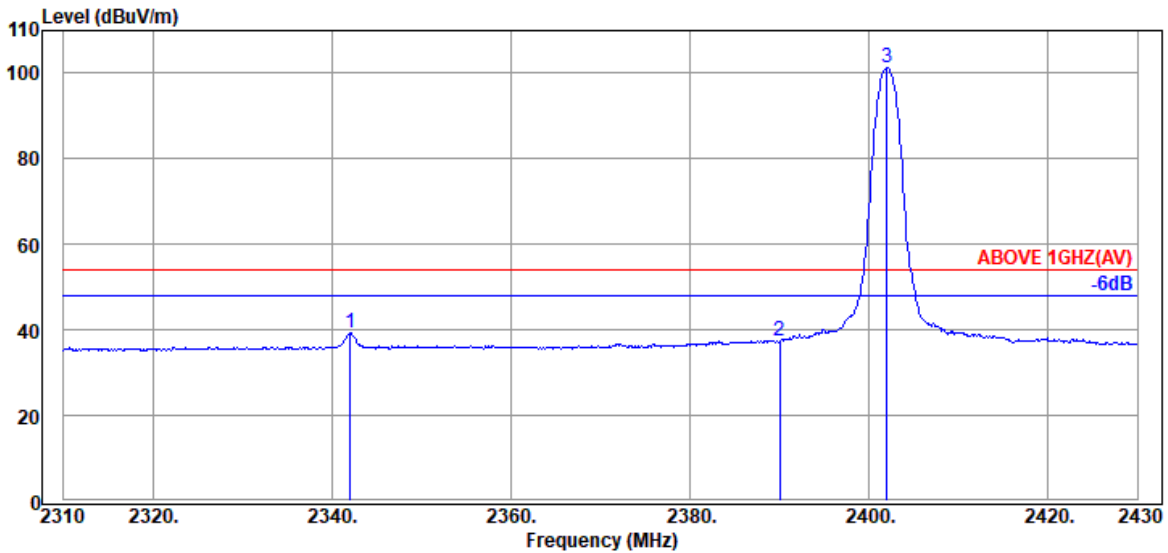
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2382.840	28.27	5.71	39.93	56.05	50.10	74.00	23.90	Peak
2390.040	28.21	5.72	39.93	54.29	48.29	74.00	25.71	Peak
@ 2402.040	28.10	5.74	39.93	109.74	103.65	---	---	Peak

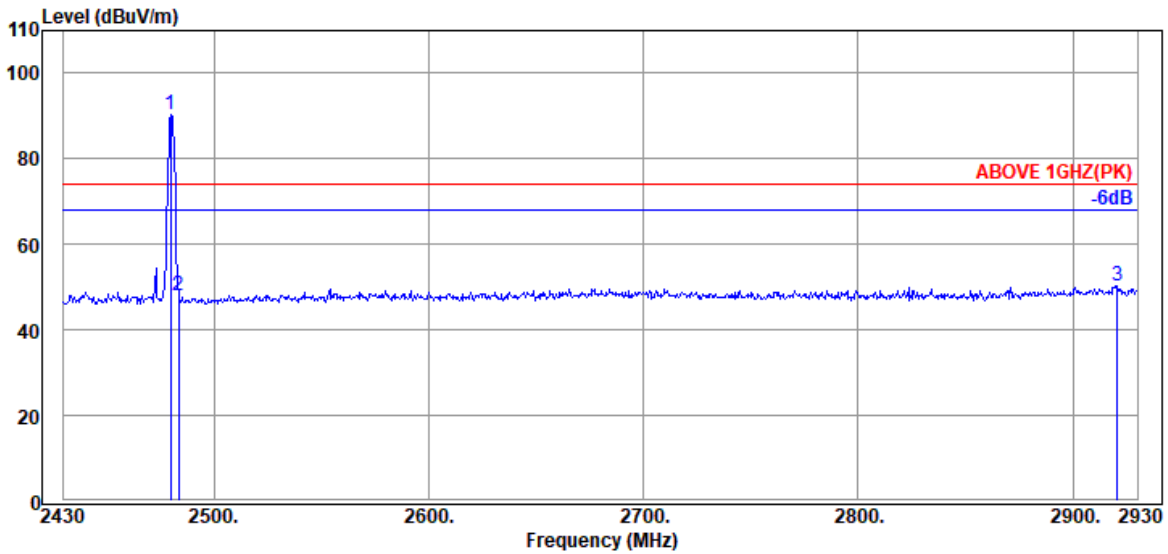


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2342.040	28.40	5.64	39.93	45.24	39.35	54.00	14.65	Average
2390.040	28.21	5.72	39.93	43.33	37.33	54.00	16.67	Average
@ 2402.040	28.10	5.74	39.93	107.44	101.35	---	---	Average

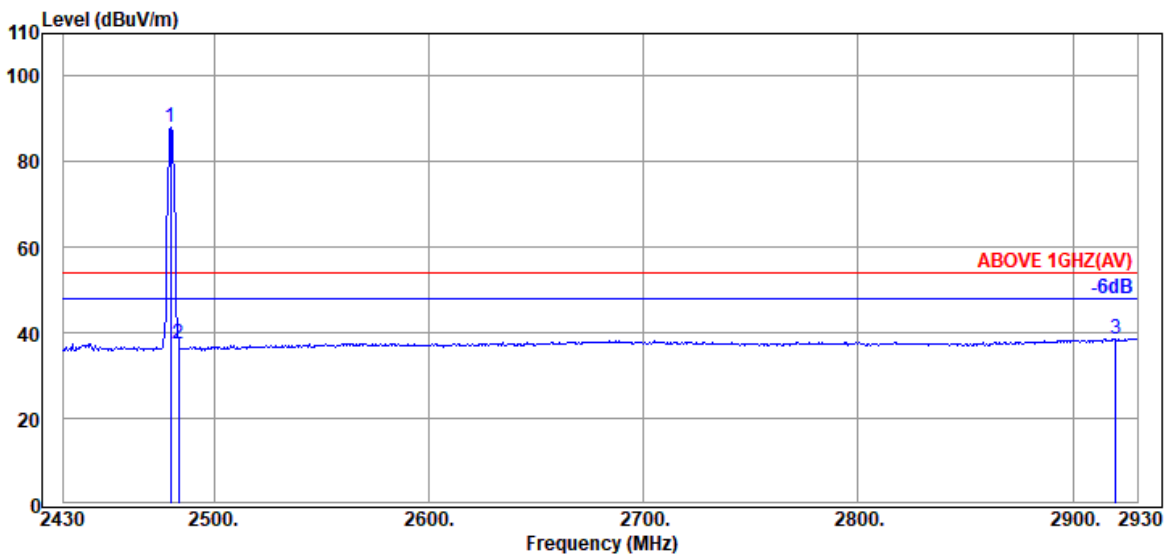
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	95.97	90.37	---	---	Peak
2483.500	28.47	5.87	39.92	53.65	48.07	74.00	25.93	Peak
2920.500	29.95	6.84	40.04	53.70	50.45	74.00	23.55	Peak

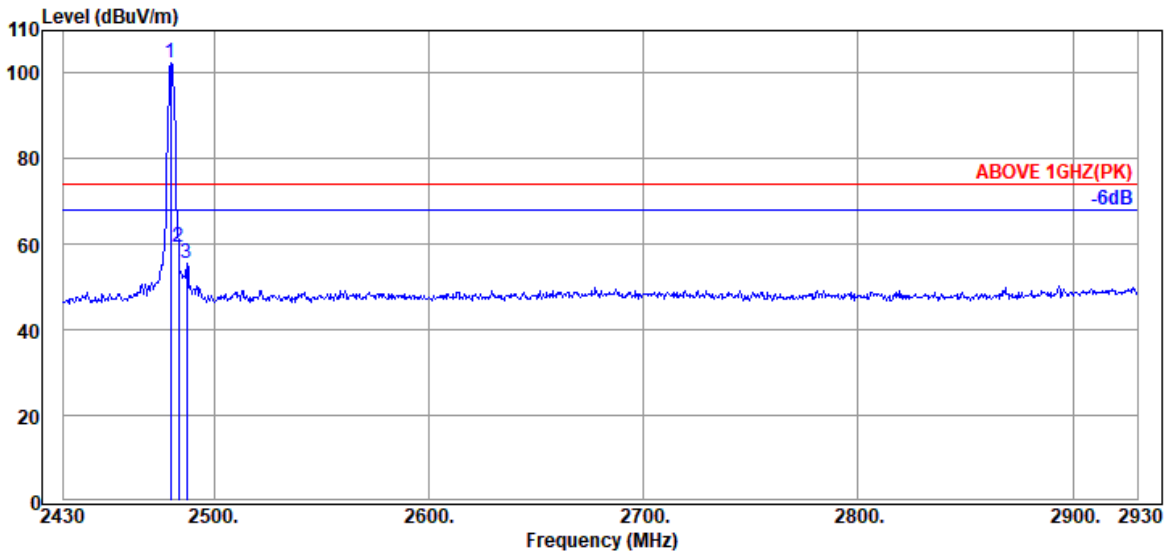


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	93.62	88.02	---	---	Average
2483.500	28.47	5.87	39.92	42.85	37.27	54.00	16.73	Average
2920.000	29.95	6.84	40.04	41.93	38.68	54.00	15.32	Average

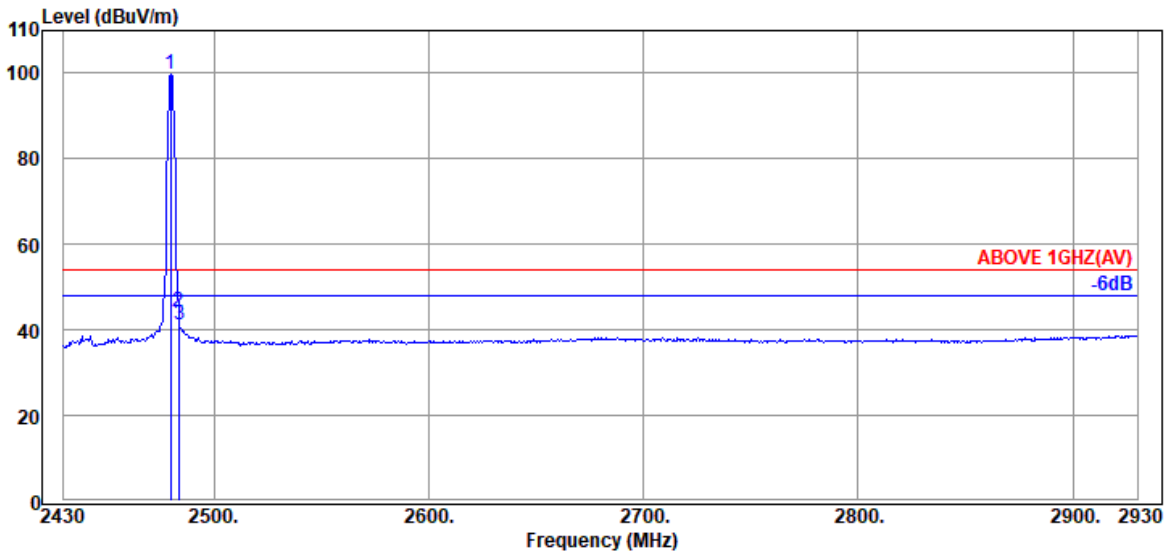
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	107.92	102.32	---	---	Peak
2483.500	28.47	5.87	39.92	64.87	59.29	74.00	14.71	Peak
2487.500	28.47	5.87	39.92	60.99	55.41	74.00	18.59	Peak



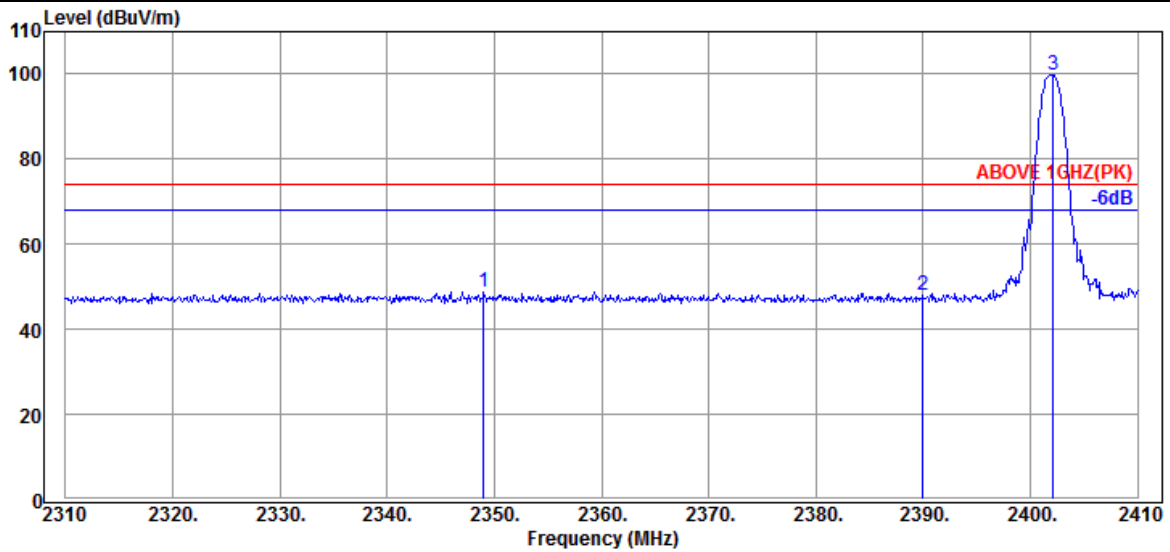
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.000	28.46	5.86	39.92	105.55	99.95	---	---	Average
2483.500	28.47	5.87	39.92	49.88	44.30	54.00	9.70	Average
2484.000	28.47	5.87	39.92	46.65	41.07	54.00	12.93	Average

Remark: The “@” means fundamental frequency, it is ignored in this section.

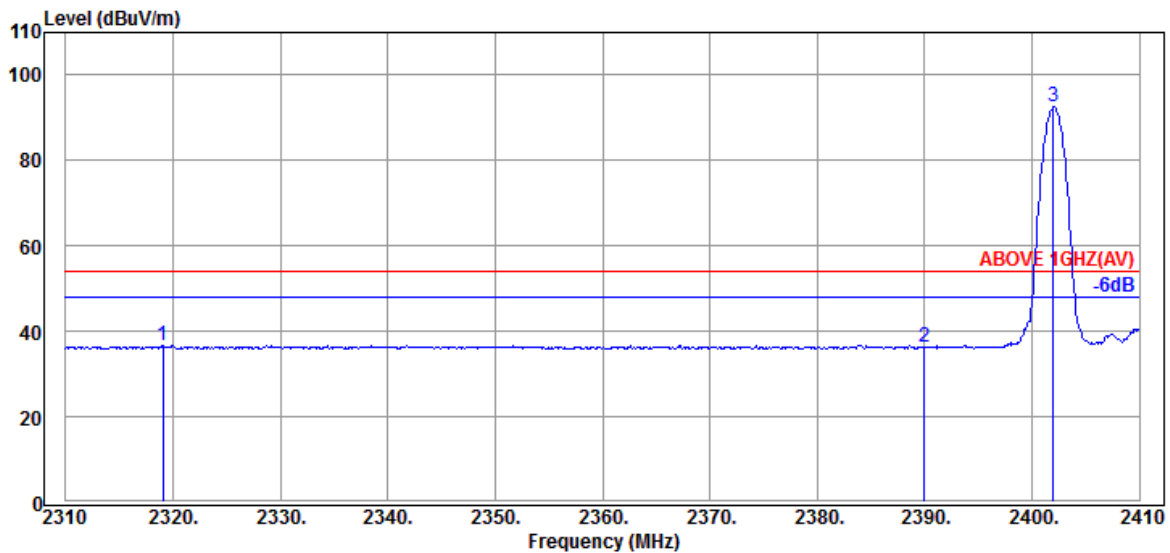
● Test SKU #1 (with INPAQ Antenna)

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2349.000	32.03	5.65	34.50	45.77	48.95	74.00	25.05	Peak
2390.000	32.00	5.72	34.51	44.62	47.83	74.00	26.17	Peak
@ 2402.100	32.00	5.74	34.51	96.41	99.64	---	---	Peak

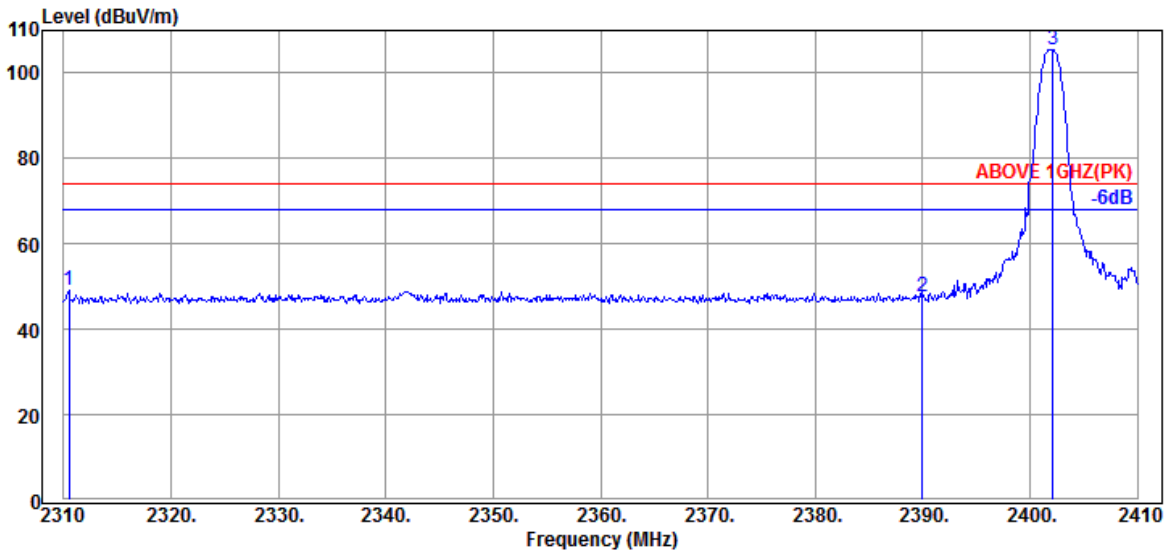


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2319.100	32.12	5.61	34.49	33.46	36.70	54.00	17.30	Average
2390.000	32.00	5.72	34.51	33.01	36.22	54.00	17.78	Average
@ 2402.000	32.00	5.74	34.51	89.20	92.43	---	---	Average

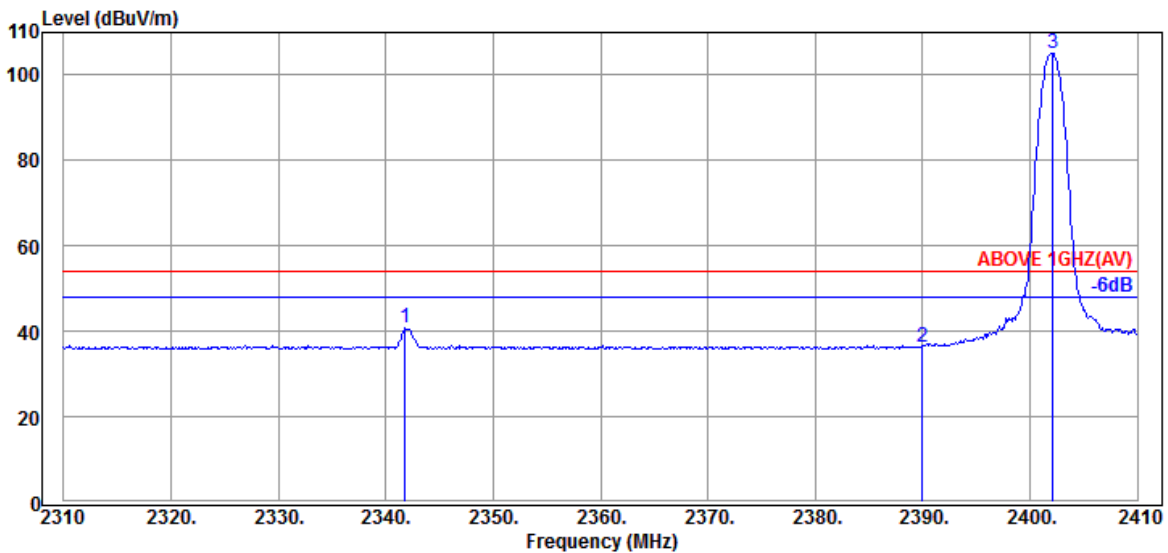
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2310.500	32.15	5.60	34.49	45.92	49.18	74.00	24.82	Peak
2390.000	32.00	5.72	34.51	44.24	47.45	74.00	26.55	Peak
@ 2402.100	32.00	5.74	34.51	102.19	105.42	---	---	Peak

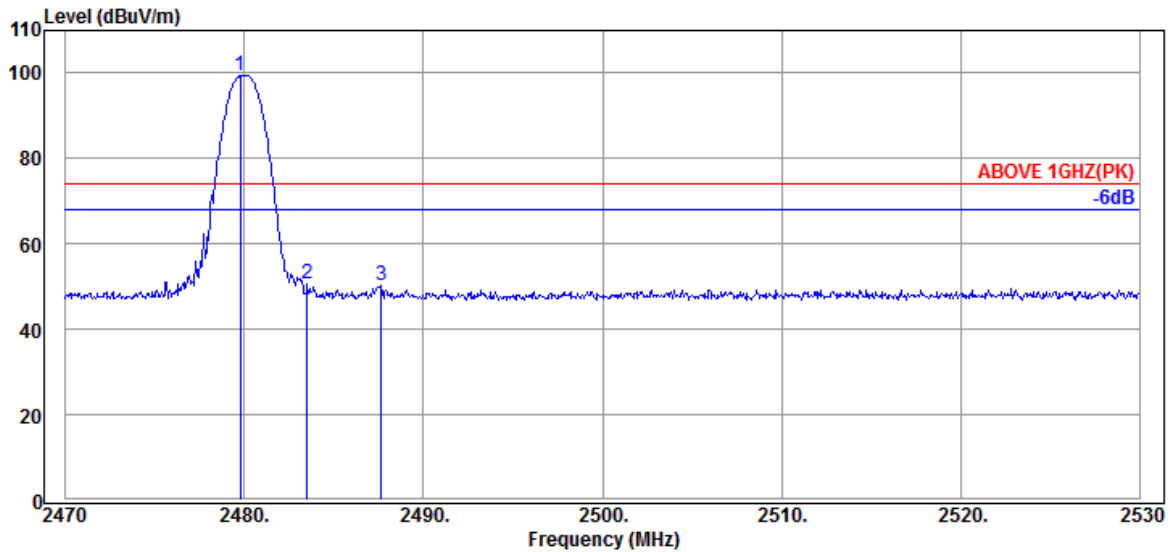


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2341.800	32.05	5.64	34.50	37.49	40.68	54.00	13.32	Average
2390.000	32.00	5.72	34.51	33.23	36.44	54.00	17.56	Average
@ 2402.100	32.00	5.74	34.51	102.04	105.27	---	---	Average

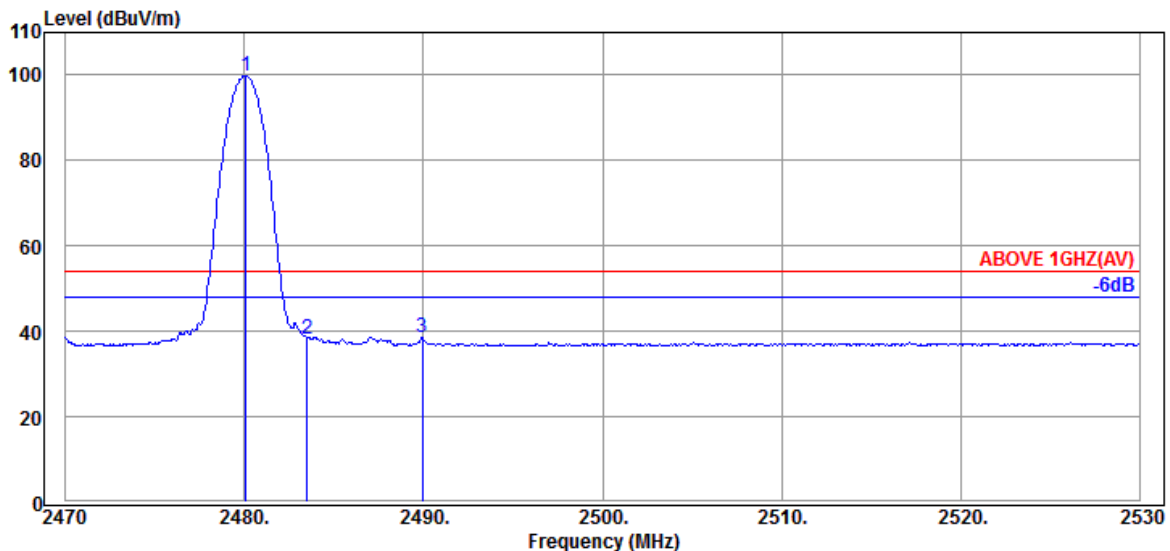
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.780	32.34	5.86	34.53	95.70	99.37	---	---	Peak
2483.500	32.43	5.87	34.53	46.78	50.55	74.00	23.45	Peak
2487.640	32.43	5.87	34.53	46.41	50.18	74.00	23.82	Peak

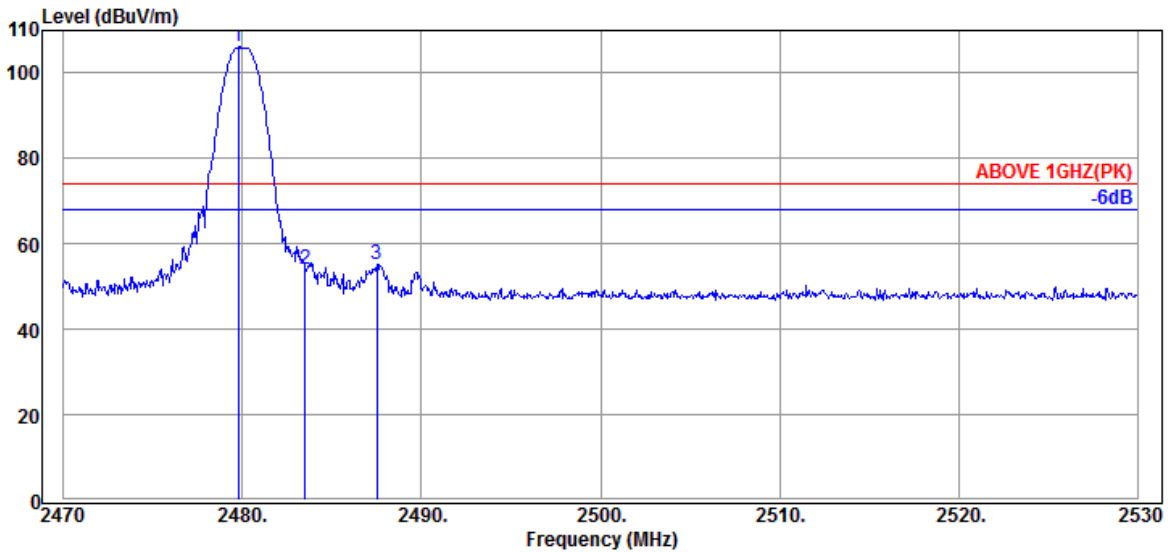


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.080	32.34	5.86	34.53	96.03	99.70	---	---	Average
2483.500	32.43	5.87	34.53	34.52	38.29	54.00	15.71	Average
2489.920	32.51	5.88	34.53	34.86	38.72	54.00	15.28	Average

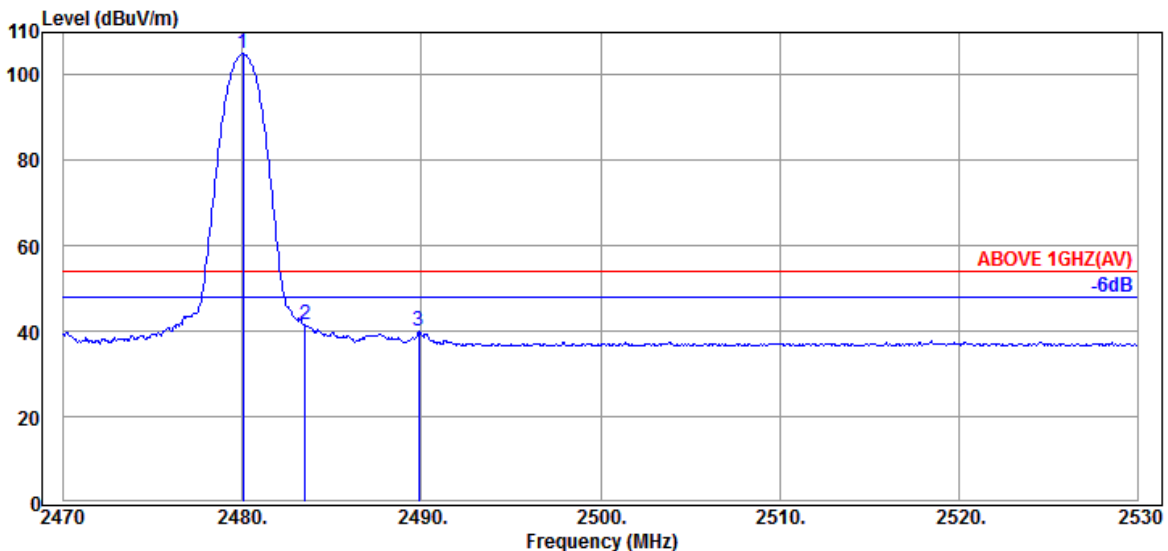
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.780	32.34	5.86	34.53	102.37	106.04	---	---	Peak
2483.500	32.43	5.87	34.53	50.41	54.18	74.00	19.82	Peak
2487.520	32.43	5.87	34.53	51.59	55.36	74.00	18.64	Peak

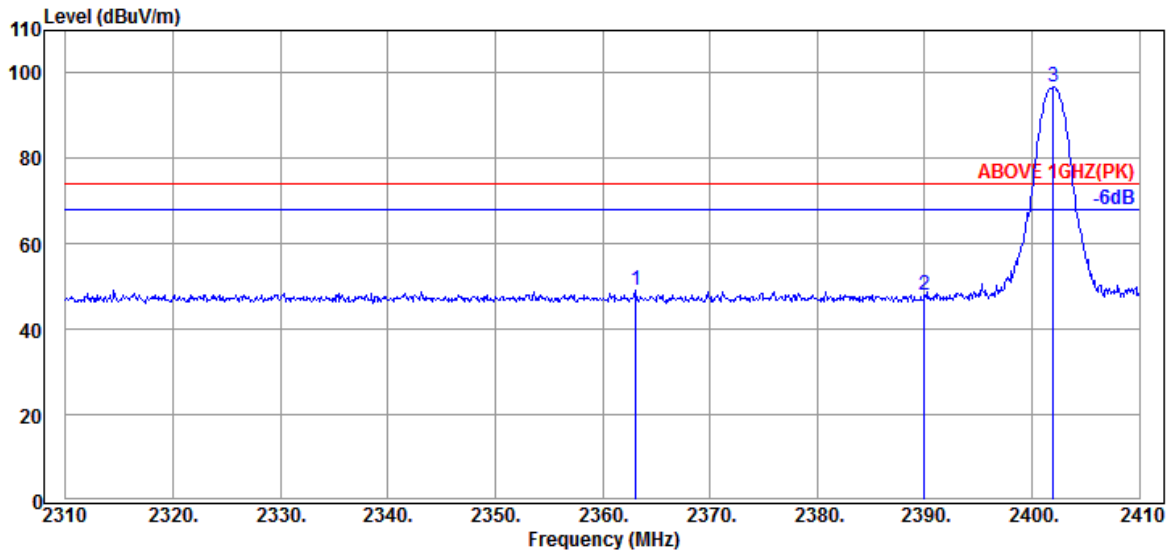


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	32.34	5.86	34.53	101.28	104.95	---	---	Average
2483.500	32.43	5.87	34.53	37.72	41.49	54.00	12.51	Average
2489.860	32.51	5.88	34.53	36.11	39.97	54.00	14.03	Average

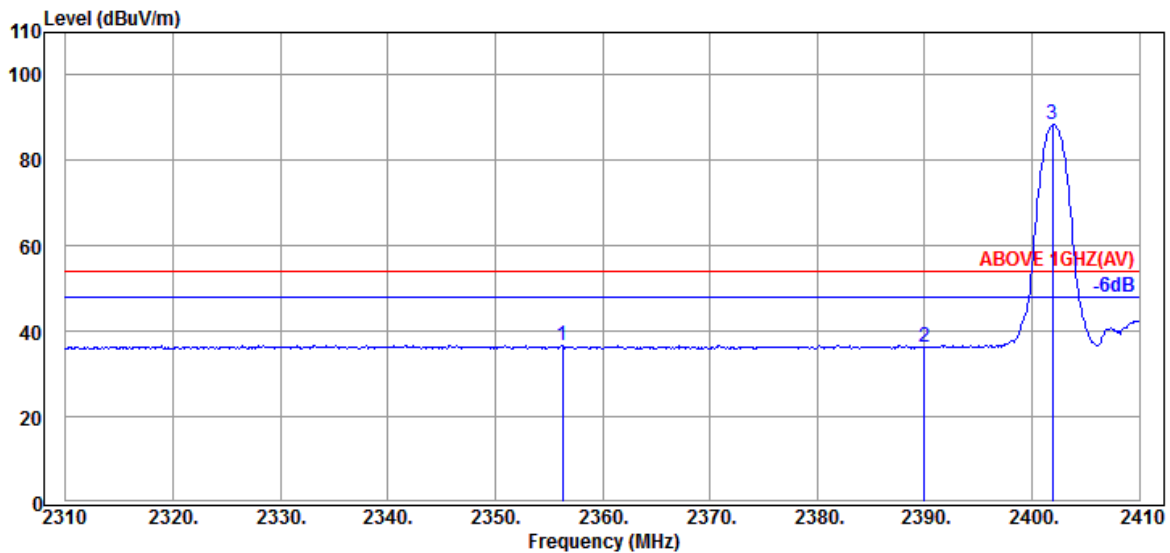
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2363.100	32.00	5.69	34.50	45.97	49.16	74.00	24.84	Peak
2390.000	32.00	5.72	34.51	44.65	47.86	74.00	26.14	Peak
@ 2402.000	32.00	5.74	34.51	93.60	96.83	---	---	Peak

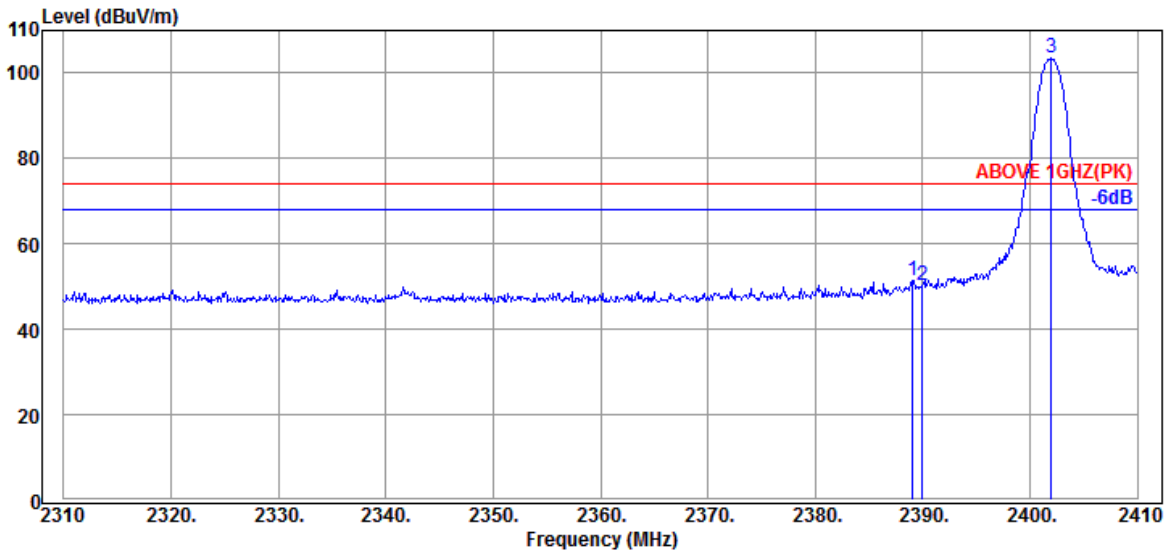


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2356.300	32.00	5.67	34.50	33.57	36.74	54.00	17.26	Average
2390.000	32.00	5.72	34.51	33.19	36.40	54.00	17.60	Average
@ 2401.900	32.00	5.74	34.51	85.12	88.35	---	---	Average

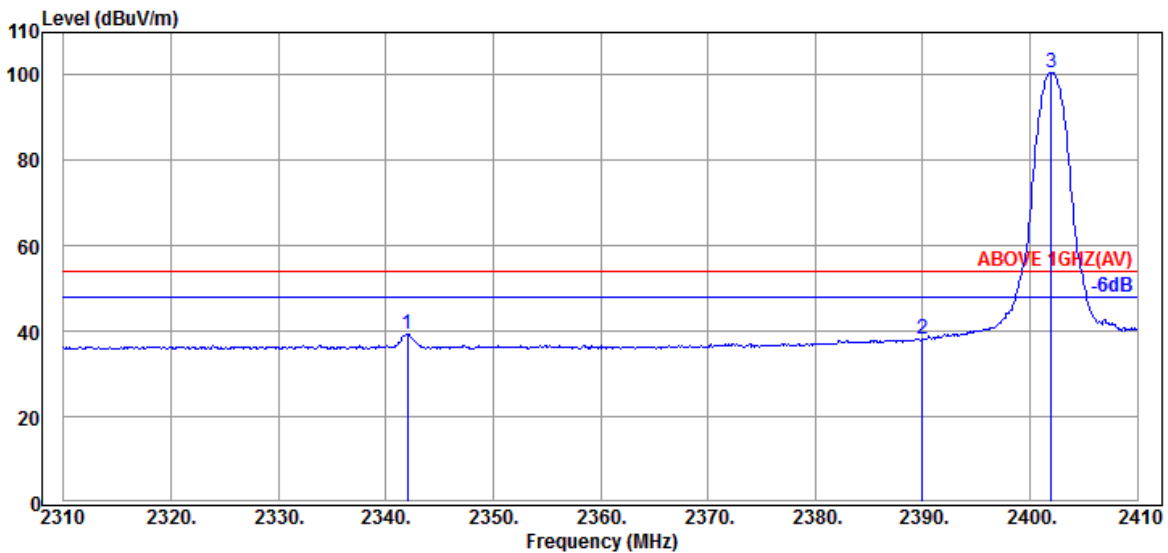
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2389.100	32.00	5.72	34.51	48.20	51.41	74.00	22.59	Peak
2390.000	32.00	5.72	34.51	47.01	50.22	74.00	23.78	Peak
@ 2402.000	32.00	5.74	34.51	100.18	103.41	---	---	Peak

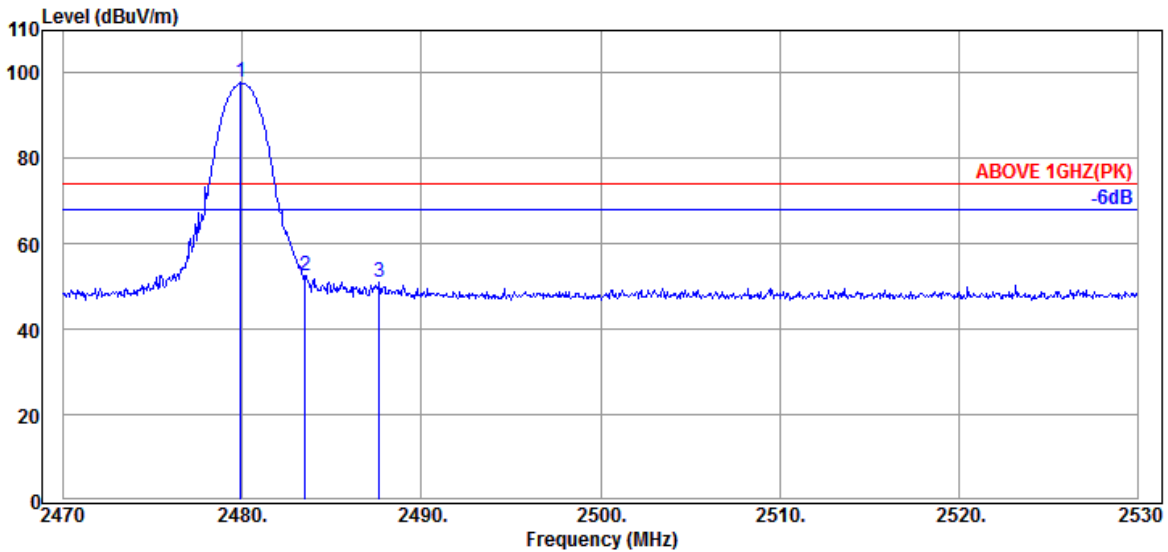


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2342.000	32.05	5.64	34.50	36.24	39.43	54.00	14.57	Average
2390.000	32.00	5.72	34.51	34.99	38.20	54.00	15.80	Average
@ 2402.000	32.00	5.74	34.51	97.37	100.60	---	---	Average

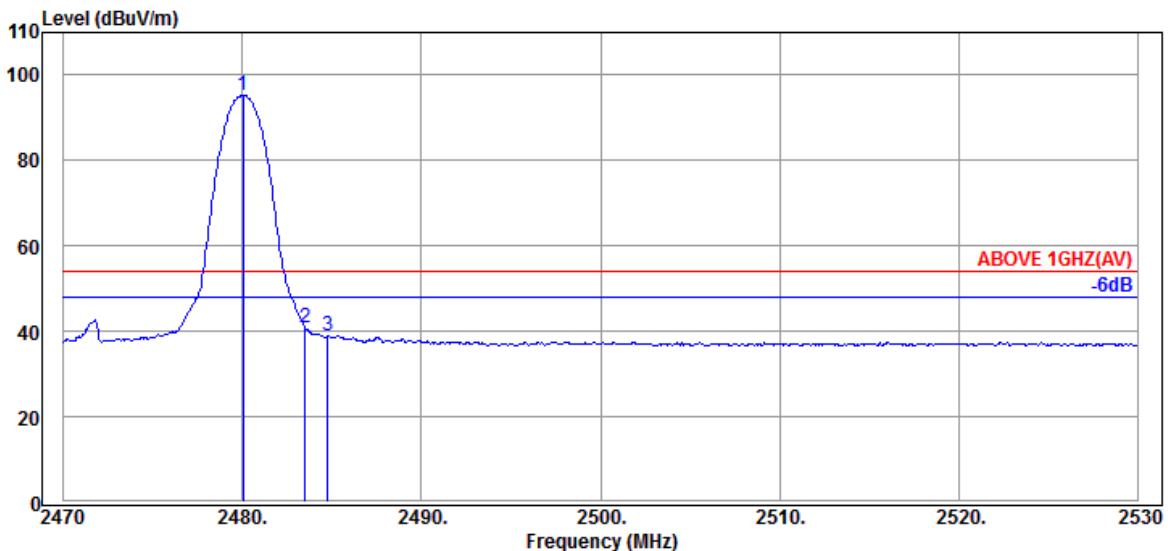
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.900	32.34	5.86	34.53	94.08	97.75	---	---	Peak
2483.500	32.43	5.87	34.53	48.89	52.66	74.00	21.34	Peak
2487.640	32.43	5.87	34.53	47.44	51.21	74.00	22.79	Peak

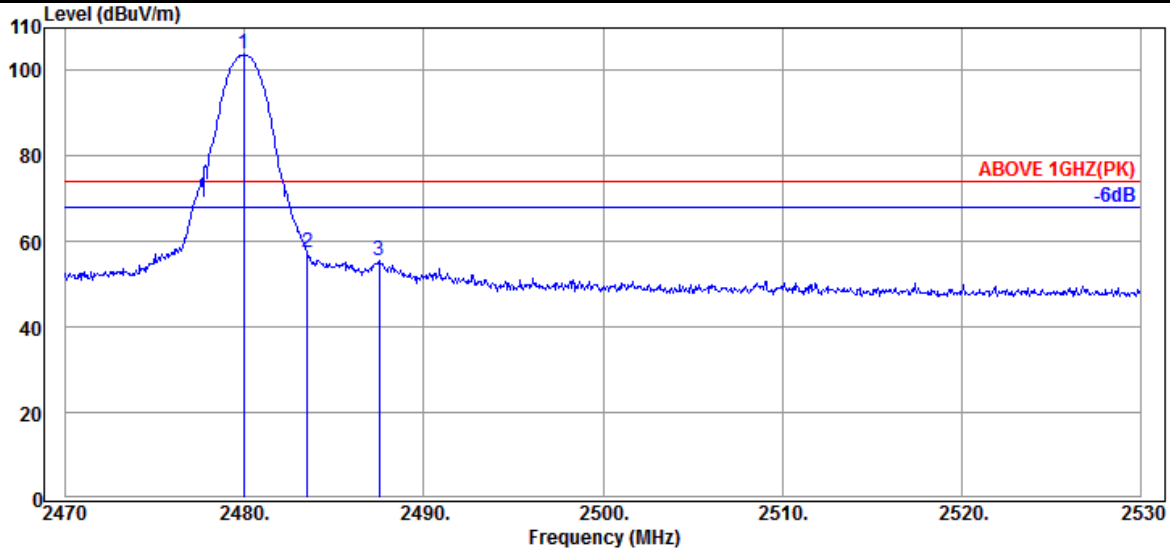


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	32.34	5.86	34.53	91.56	95.23	---	---	Average
2483.500	32.43	5.87	34.53	37.16	40.93	54.00	13.07	Average
2484.760	32.43	5.87	34.53	35.13	38.90	54.00	15.10	Average

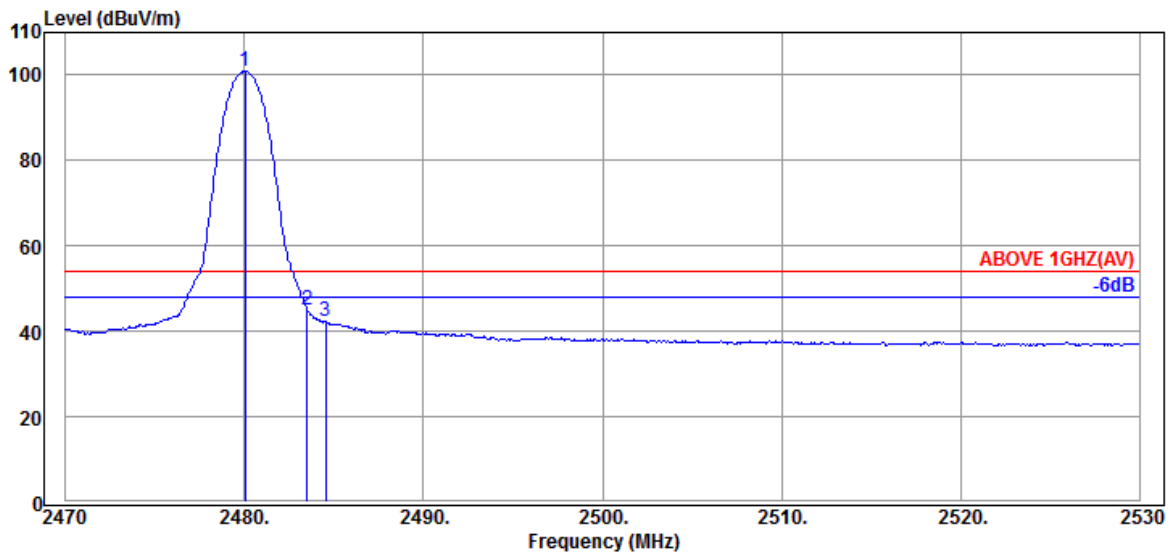
Remark: The "@" means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2479.960	32.34	5.86	34.53	100.13	103.80	---	---	Peak
2483.500	32.43	5.87	34.53	53.54	57.31	74.00	16.69	Peak
2487.520	32.43	5.87	34.53	51.81	55.58	74.00	18.42	Peak



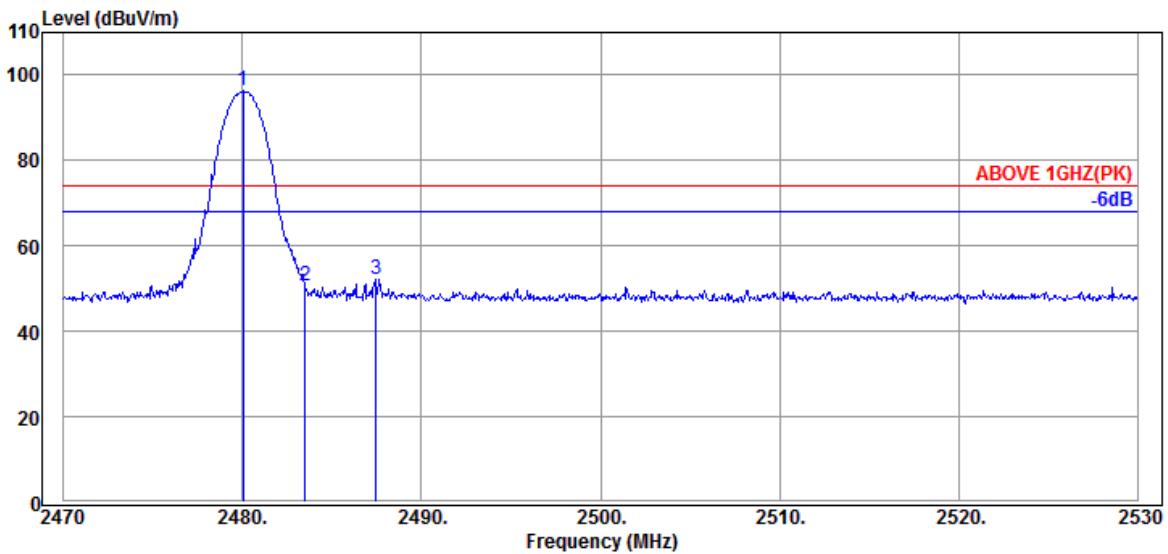
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.020	32.34	5.86	34.53	97.27	100.94	---	---	Average
2483.500	32.43	5.87	34.53	41.32	45.09	54.00	8.91	Average
2484.520	32.43	5.87	34.53	38.58	42.35	54.00	11.65	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

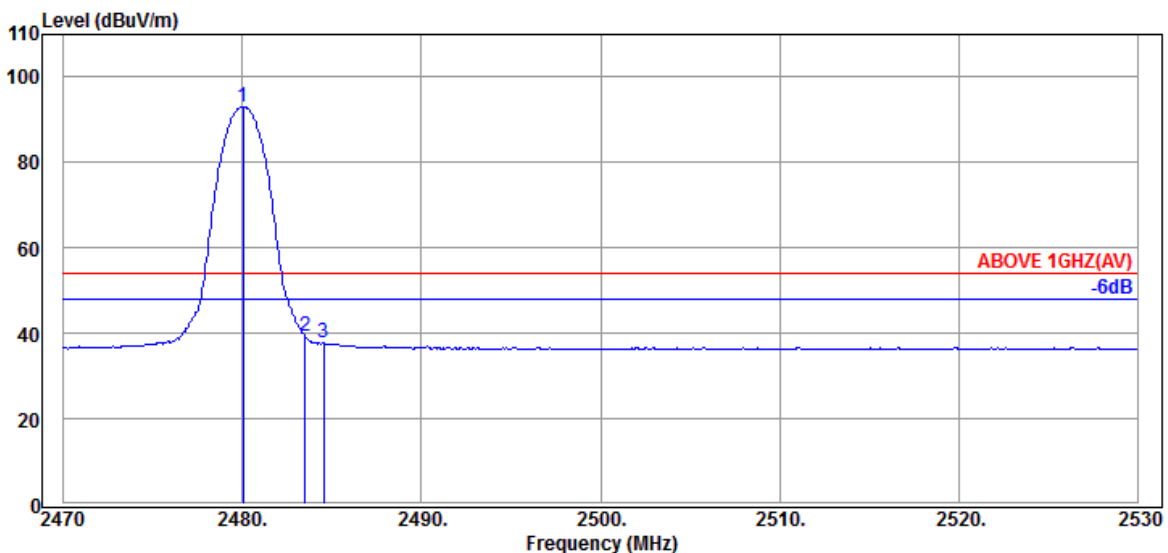
Spot Check with SKU #2 (with LUXSHARE-ICT ANT)

Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	32.34	5.86	34.53	92.59	96.26	---	---	Peak
2483.500	32.43	5.87	34.53	46.76	50.53	74.00	23.47	Peak
2487.460	32.43	5.87	34.53	48.32	52.09	74.00	21.91	Peak

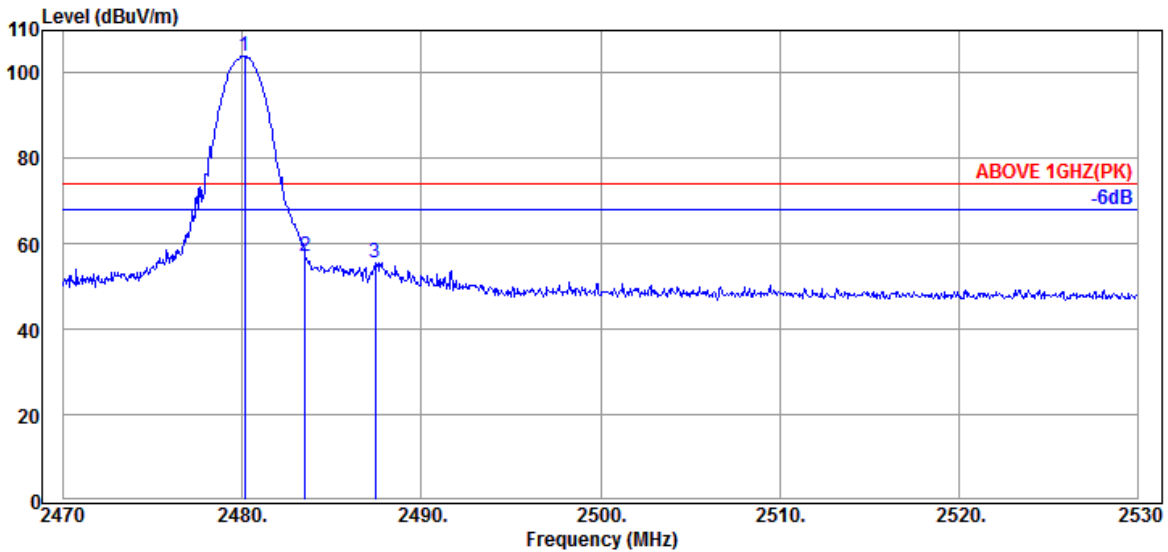


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	32.34	5.86	34.53	89.40	93.07	---	---	Average
2483.500	32.43	5.87	34.53	35.43	39.20	54.00	14.80	Average
2484.520	32.43	5.87	34.53	33.88	37.65	54.00	16.35	Average

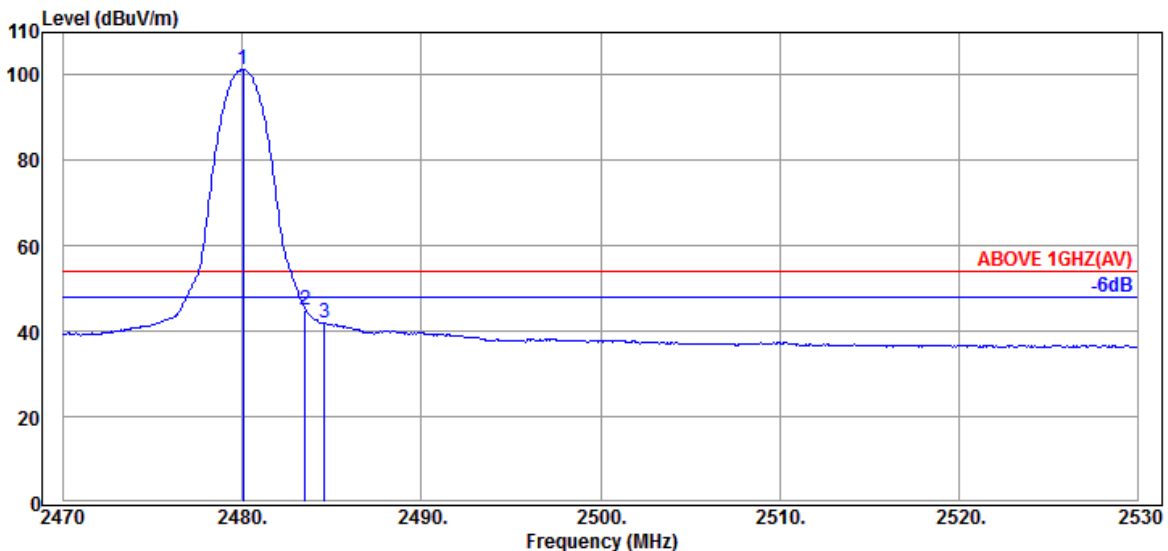
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.140	32.34	5.86	34.53	100.31	103.98	---	---	Peak
2483.500	32.43	5.87	34.53	53.27	57.04	74.00	16.96	Peak
2487.400	32.43	5.87	34.53	51.75	55.52	74.00	18.48	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.020	32.34	5.86	34.53	97.57	101.24	---	---	Average
2483.500	32.43	5.87	34.53	41.21	44.98	54.00	9.02	Average
2484.580	32.43	5.87	34.53	38.05	41.82	54.00	12.18	Average

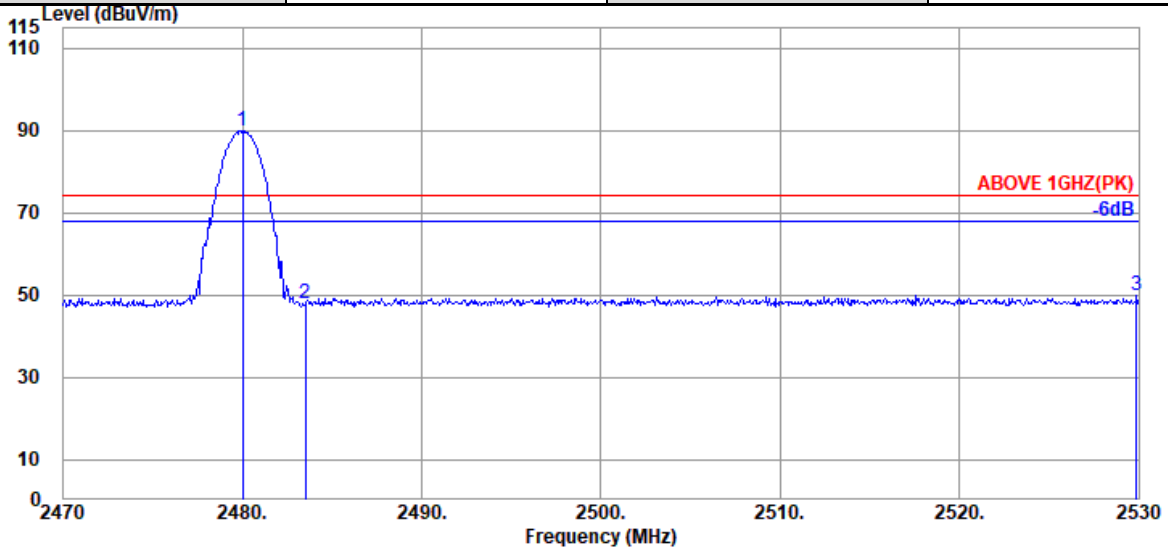
Remark: The "@" means fundamental frequency, it is ignored in this section.

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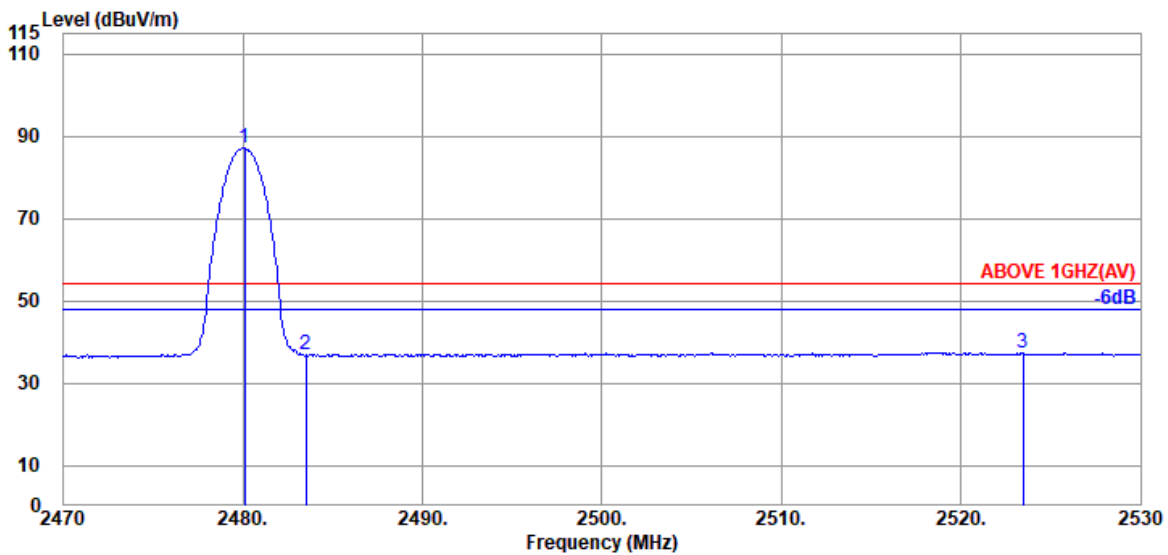
Spot Check with SKU #2 (with INPAQ ANT)

Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	28.46	5.86	39.92	95.51	89.91	---	---	Peak
2483.500	28.47	5.87	39.92	53.51	47.93	74.00	26.07	Peak
2529.880	28.67	5.96	39.93	55.31	50.01	74.00	23.99	Peak

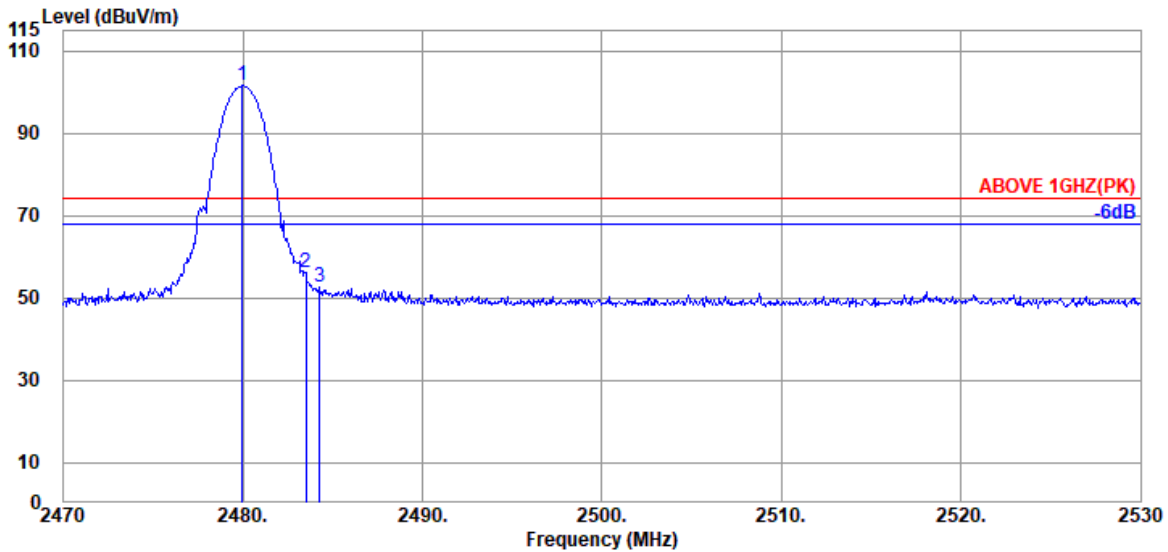


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.080	28.46	5.86	39.92	92.60	87.00	---	---	Average
2483.500	28.47	5.87	39.92	42.33	36.75	54.00	17.25	Average
2523.460	28.63	5.94	39.93	42.78	37.42	54.00	16.58	Average

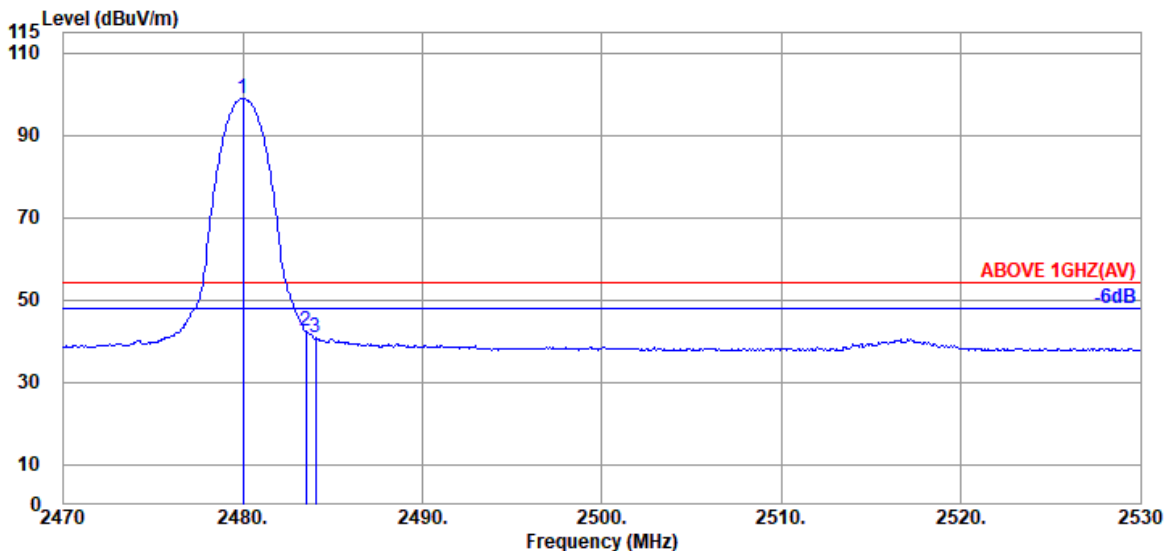
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.960	28.46	5.86	39.92	107.15	101.55	---	---	Peak
2483.500	28.47	5.87	39.92	61.66	56.08	74.00	17.92	Peak
2484.280	28.47	5.87	39.92	58.21	52.63	74.00	21.37	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	28.46	5.86	39.92	104.50	98.90	---	---	Average
2483.500	28.47	5.87	39.92	47.87	42.29	54.00	11.71	Average
2484.040	28.47	5.87	39.92	46.24	40.66	54.00	13.34	Average

Remark: The "@" means fundamental frequency, it is ignored in this section.

A.2.2 Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

● **Test SKU #1 (with LUXSHARE-ICT Antenna)**

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.00	8.53	39.39	41.83	43.97	54.00	10.03	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.00	8.53	39.39	41.02	43.16	54.00	10.84	Peak

Mode	GFSK	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.25	8.64	39.35	42.33	44.87	54.00	9.13	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.25	8.64	39.35	41.53	44.07	54.00	9.93	Peak

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.74	39.31	42.61	45.44	54.00	8.56	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.74	39.31	42.36	45.19	54.00	8.81	Peak

● Test SKU #1 (with INPAQ Antenna)

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	34.10	8.53	34.43	35.38	43.58	54.00	10.42	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	34.10	8.53	34.43	35.37	43.57	54.00	10.43	Peak

Mode	GFSK	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	34.05	8.64	34.42	34.35	42.62	54.00	11.38	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	34.05	8.64	34.42	34.09	42.36	54.00	11.64	Peak

Mode	GFSK	Frequency	TX 2480MHz
------	------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	34.22	8.74	34.41	36.62	45.17	54.00	8.83	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	34.22	8.74	34.41	35.67	44.22	54.00	9.78	Peak

Spot Check with SKU #2 (with LUXSHARE-ICT ANT)

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	34.22	8.74	34.41	33.20	41.75	54.00	12.25	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	34.22	8.74	34.41	32.58	41.13	54.00	12.87	Peak

Spot Check with SKU #2 (with INAPQ ANT)

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	34.22	8.74	34.41	32.23	40.78	54.00	13.22	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	34.22	8.74	34.41	32.14	40.69	54.00	13.31	Peak

A.2.3 Emissions in Non-restricted Frequency Bands:

All emission levels below the FCC 15.209(a)/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.

A.3 20dB BANDWIDTH

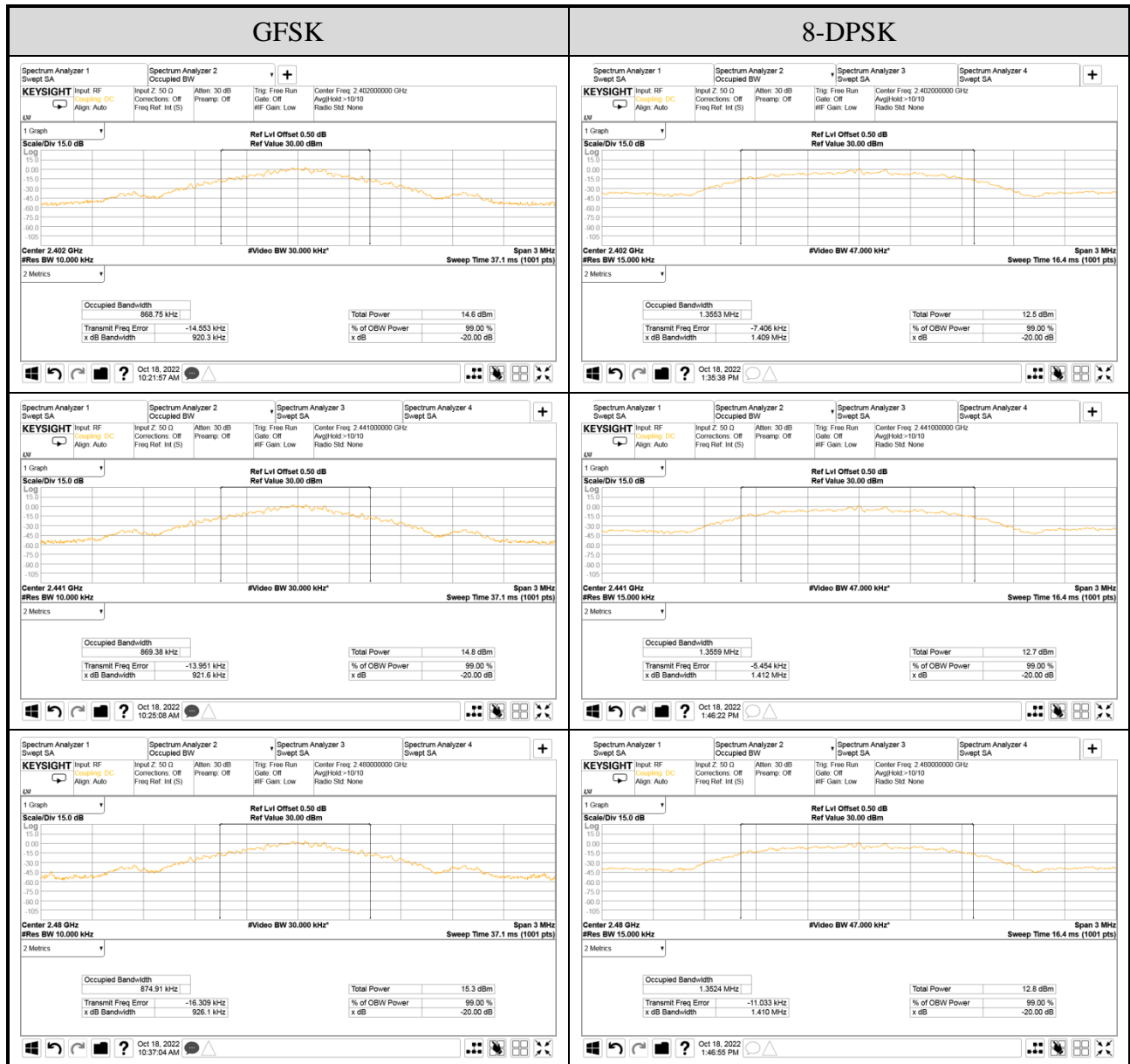
Test Date	2022/10/18	Temp./Hum.	24°C/71%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.3.1 20dB Bandwidth Result

Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.9203	0.86875	0.614
	2441	0.9216	0.86938	0.614
	2480	0.9261	0.87491	0.617
8-DPSK	2402	1.409	1.3553	0.939
	2441	1.412	1.3559	0.941
	2480	1.410	1.3524	0.940

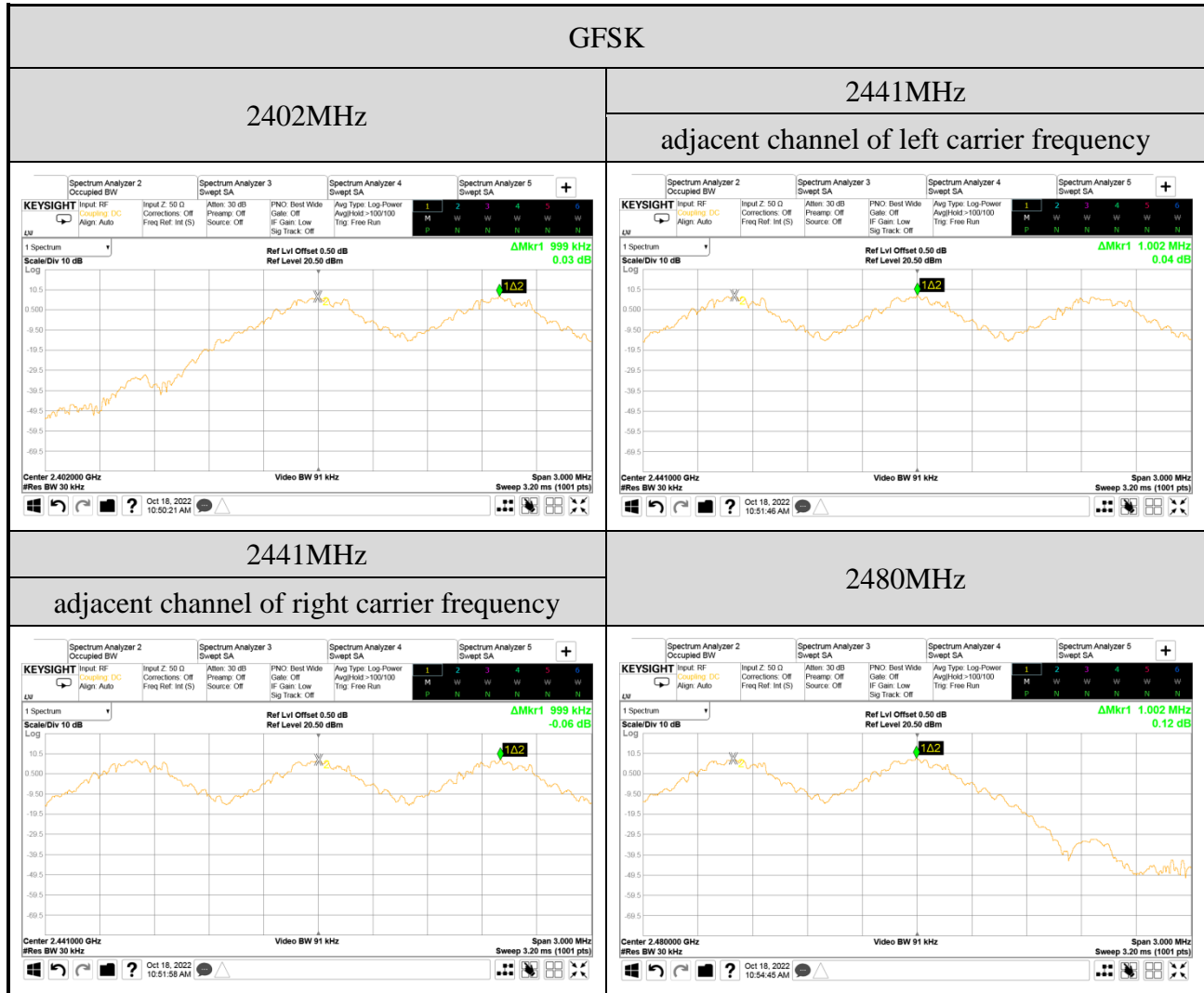
Remark: The maximum two-thirds of the 20dB bandwidth is the limit for carrier frequency separation presented.

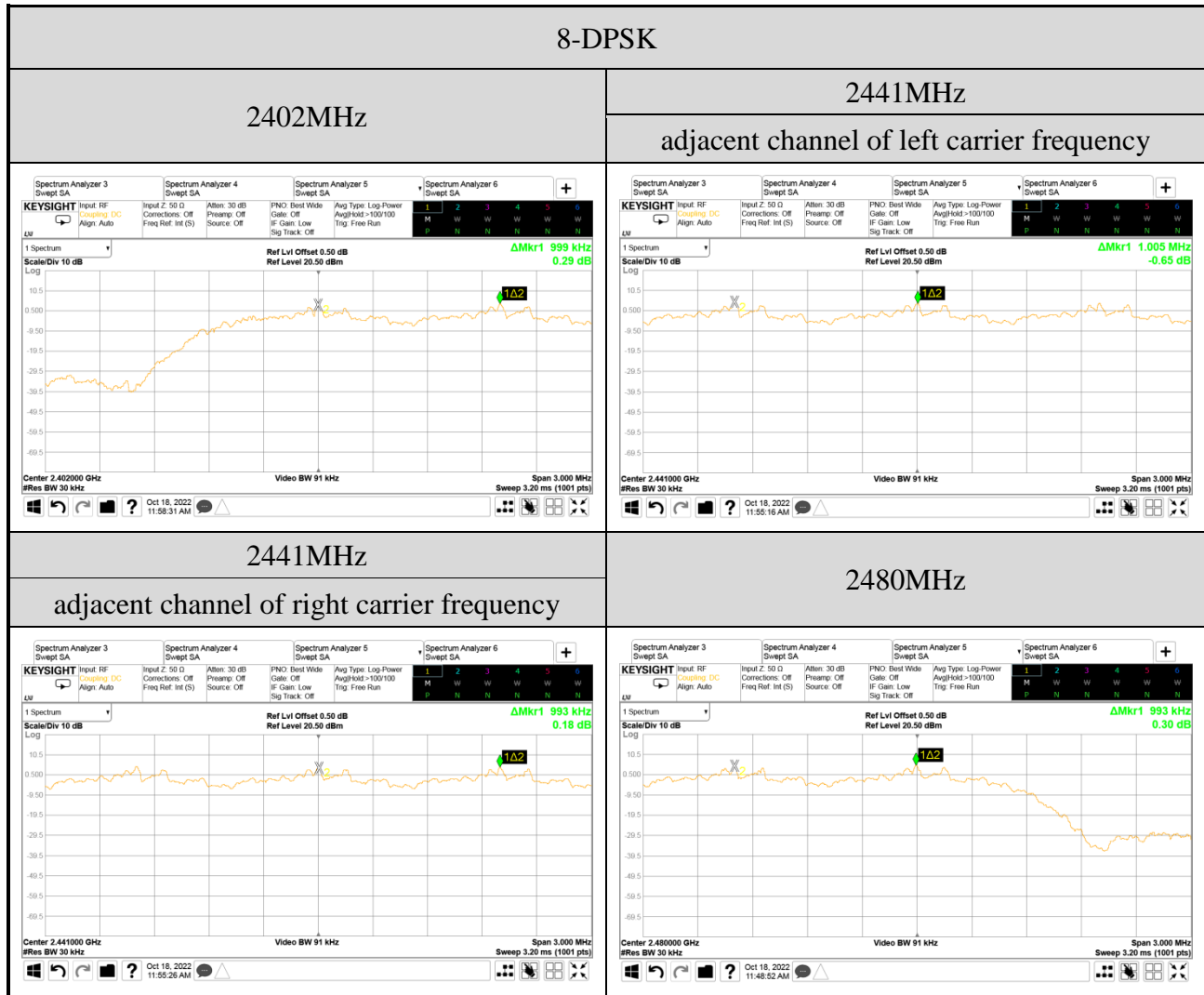
A.3.2 Measurement Plots



A.4 CARRIER FREQUENCY SEPARATION

Test Date	2022/10/18	Temp./Hum.	24°C/71%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		





A.5 TIME OF OCCUPANCY

Test Date	2022/10/18	Temp./Hum.	24°C/71%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.5.1 Time of Occupancy

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2402	DH1	10	0.3800	120.080	<400
		DH3	6	1.6400	310.944	<400
		DH5	3	2.8800	273.024	<400

Observation Period:

$$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$$

DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is
 10 transmission * 31.6 seconds * 0.380 ms = 120.080 ms (<400ms)

DH3 Mode

For each second of 6 transmission appearance, the longest time of occupancy is
 6 transmission * 31.6 seconds * 1.640 ms = 310.944 ms (<400ms)

DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is
 3 transmission * 31.6 seconds * 2.880 ms = 273.024 ms (<400ms)

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2441	DH1	10	0.3800	120.080	<400
		DH3	5	1.6300	257.540	<400
		DH5	3	2.8800	273.024	<400

Observation Period:

$$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$$

DH1 Mode

For each second of 10 transmission appearance, the longest time of occupancy is
 10 transmission * 31.6 seconds * 0.380 ms = 120.080 ms (<400ms)

DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
 5 transmission * 31.6 seconds * 1.630 ms = 257.540 ms (<400ms)

DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is
 3 transmission * 31.6 seconds * 2.880 ms = 273.024 ms (<400ms)

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2480	DH1	10	0.3800	120.080	<400
		DH3	6	1.6300	309.048	<400
		DH5	3	2.8800	273.024	<400

Observation Period:

79 channels* **0.4** seconds= **31.6** seconds

DH1 Mode

For each second of **10** transmission appearance,the longest time of occupancy is
10 transmission* **31.6** seconds* **0.380** ms= **120.080** ms (<400ms)

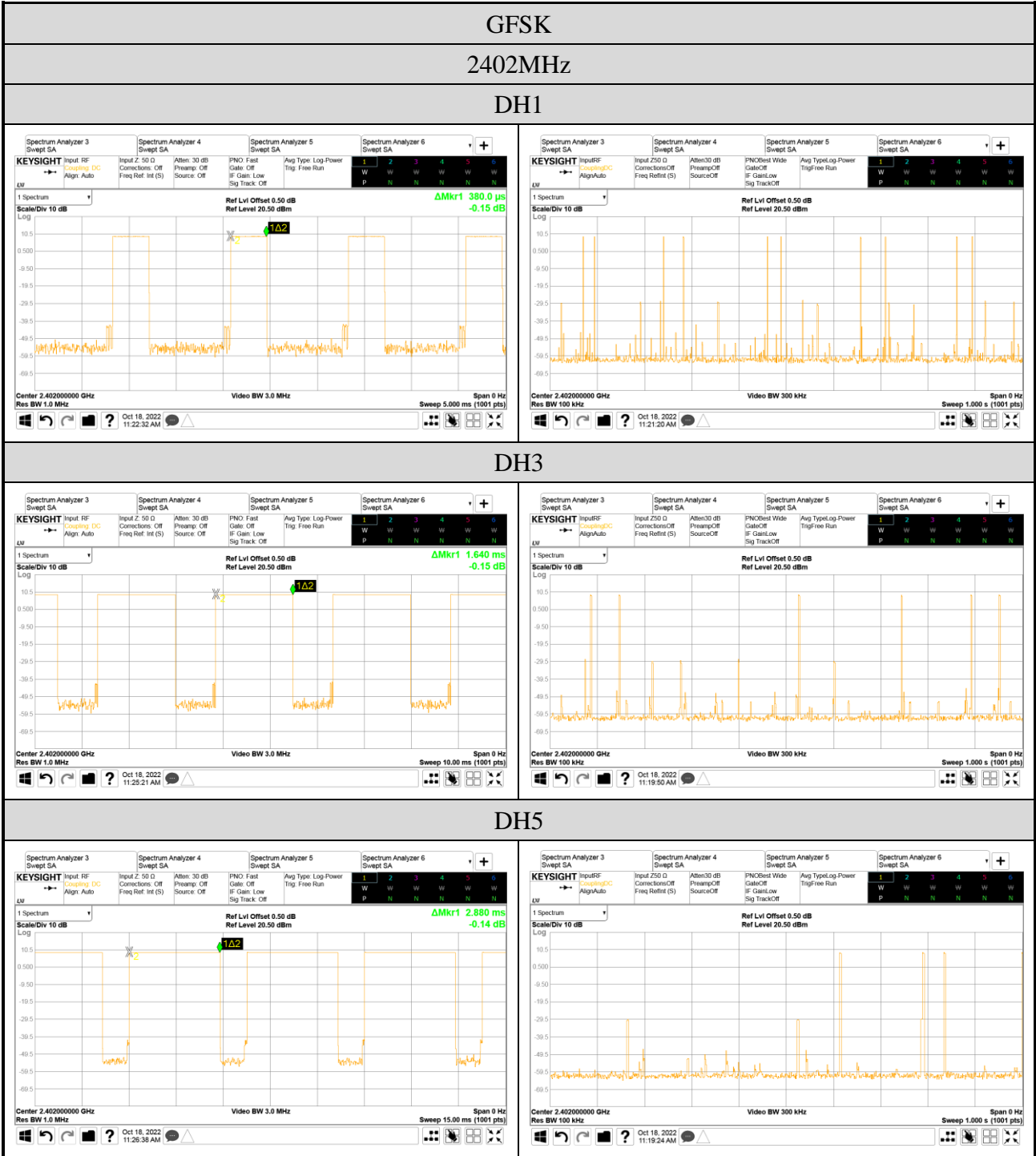
DH3 Mode

For each second of **6** transmission appearance,the longest time of occupancy is
6 transmission* **31.6** seconds* **1.630** ms= **309.048** ms (<400ms)

DH5 Mode

For each second of **3** transmission appearance,the longest time of occupancy is
3 transmission* **31.6** seconds* **2.880** ms= **273.024** ms (<400ms)

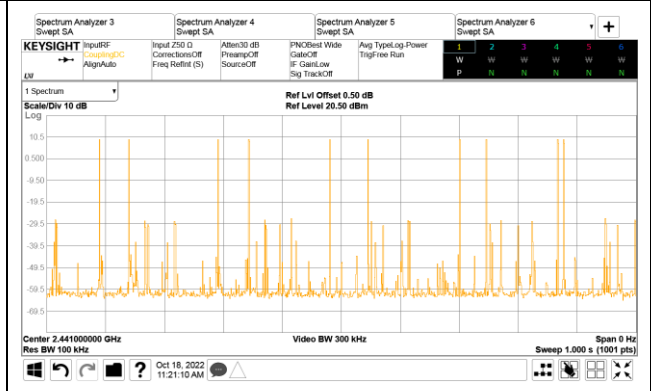
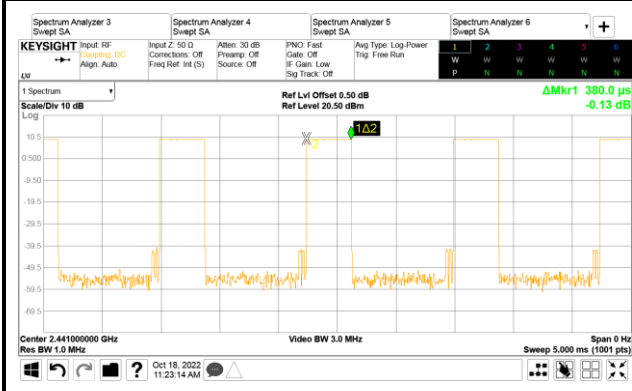
● Measurement Plots



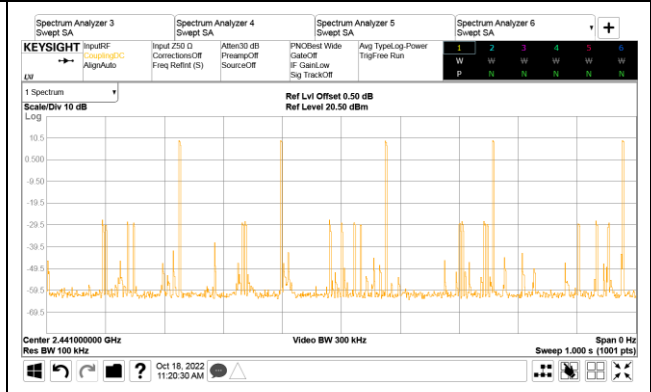
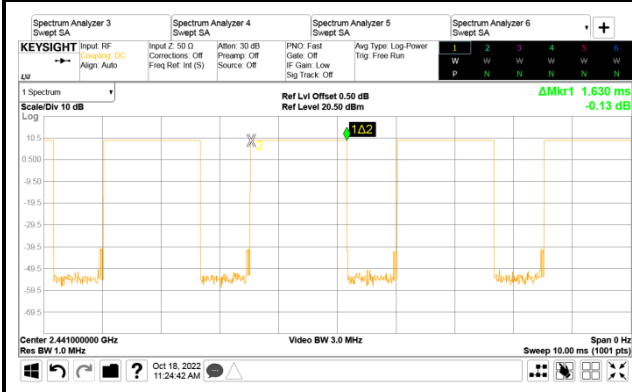
GFSK

2441MHz

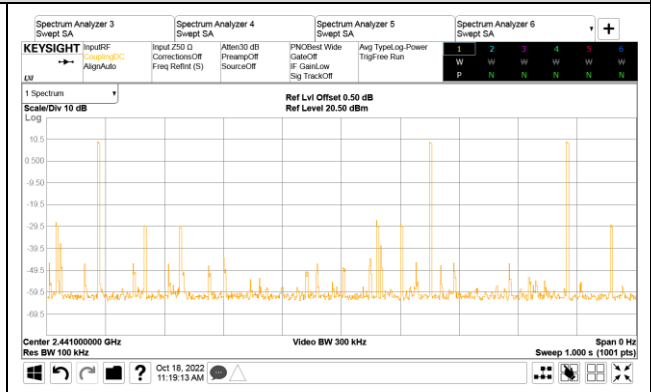
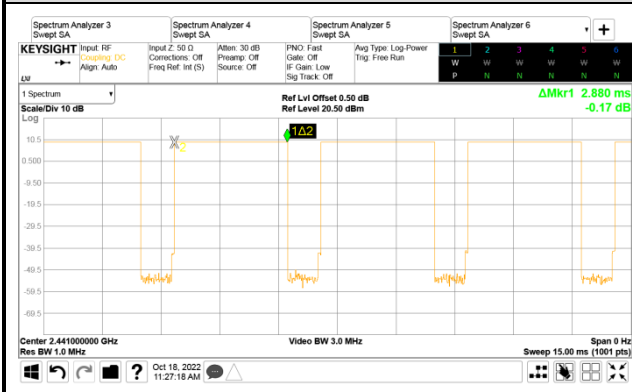
DH1



DH3



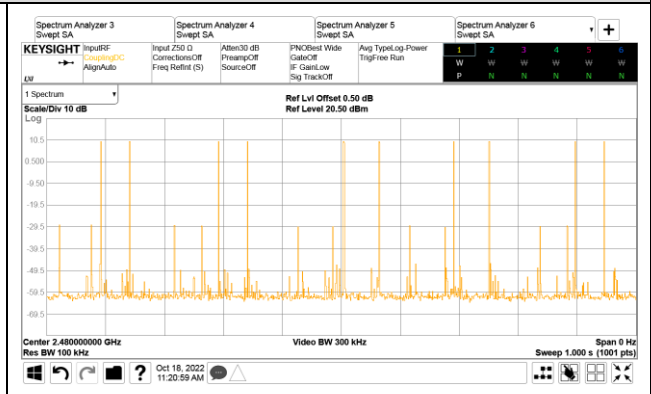
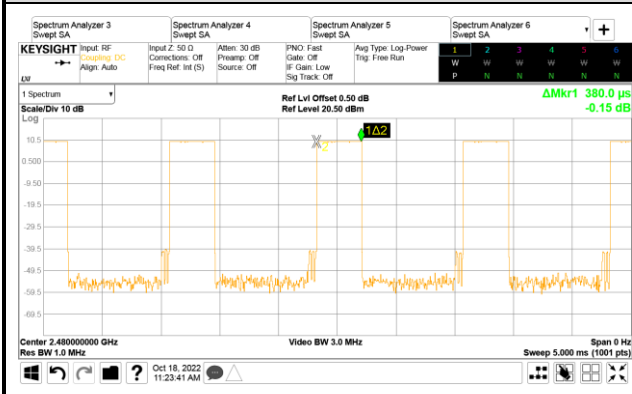
DH5



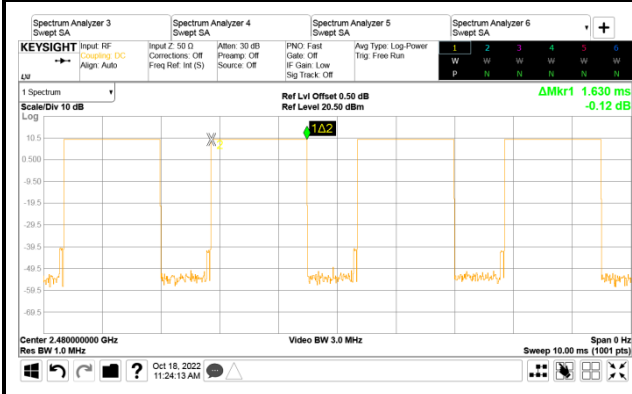
GFSK

2480MHz

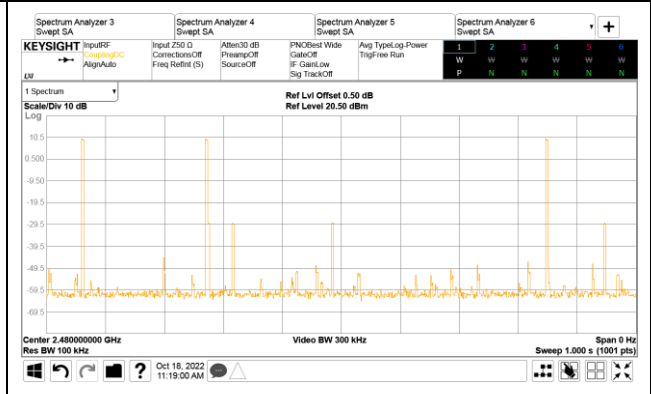
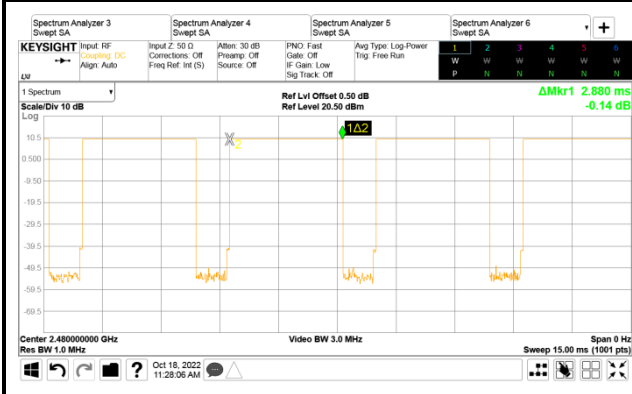
DH1



DH3



DH5



Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2402	3DH1	10	0.3850	121.660	<400
		3DH3	6	1.6400	310.944	<400
		3DH5	3	2.8950	274.446	<400

Observation Period:

$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$

3DH1 Mode

For each second of **10** transmission appearance,the longest time of occupancy is
 $10 \text{ transmission} * 31.6 \text{ seconds} * 0.385 \text{ ms} = 121.660 \text{ ms} (<400\text{ms})$

3DH3 Mode

For each second of **6** transmission appearance,the longest time of occupancy is
 $6 \text{ transmission} * 31.6 \text{ seconds} * 1.640 \text{ ms} = 310.944 \text{ ms} (<400\text{ms})$

3DH5 Mode

For each second of **3** transmission appearance,the longest time of occupancy is
 $3 \text{ transmission} * 31.6 \text{ seconds} * 2.895 \text{ ms} = 274.446 \text{ ms} (<400\text{ms})$

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2441	3DH1	10	0.3900	123.240	<400
		3DH3	6	1.6400	310.944	<400
		3DH5	3	2.8950	274.446	<400

Observation Period:

$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$

3DH1 Mode

For each second of **10** transmission appearance,the longest time of occupancy is
 $10 \text{ transmission} * 31.6 \text{ seconds} * 0.390 \text{ ms} = 123.240 \text{ ms} (<400\text{ms})$

3DH3 Mode

For each second of **6** transmission appearance,the longest time of occupancy is
 $6 \text{ transmission} * 31.6 \text{ seconds} * 1.640 \text{ ms} = 310.944 \text{ ms} (<400\text{ms})$

3DH5 Mode

For each second of **3** transmission appearance,the longest time of occupancy is
 $3 \text{ transmission} * 31.6 \text{ seconds} * 2.895 \text{ ms} = 274.446 \text{ ms} (<400\text{ms})$

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2480	3DH1	10	0.3850	121.660	<400
		3DH3	6	1.6400	310.944	<400
		3DH5	3	2.8950	274.446	<400

Observation Period:

$$79 \text{ channels} * 0.4 \text{ seconds} = 31.6 \text{ seconds}$$

3DH1 Mode

For each second of **10** transmission appearance, the longest time of occupancy is
10 transmission * **31.6** seconds * **0.385** ms = **121.660** ms (<400ms)

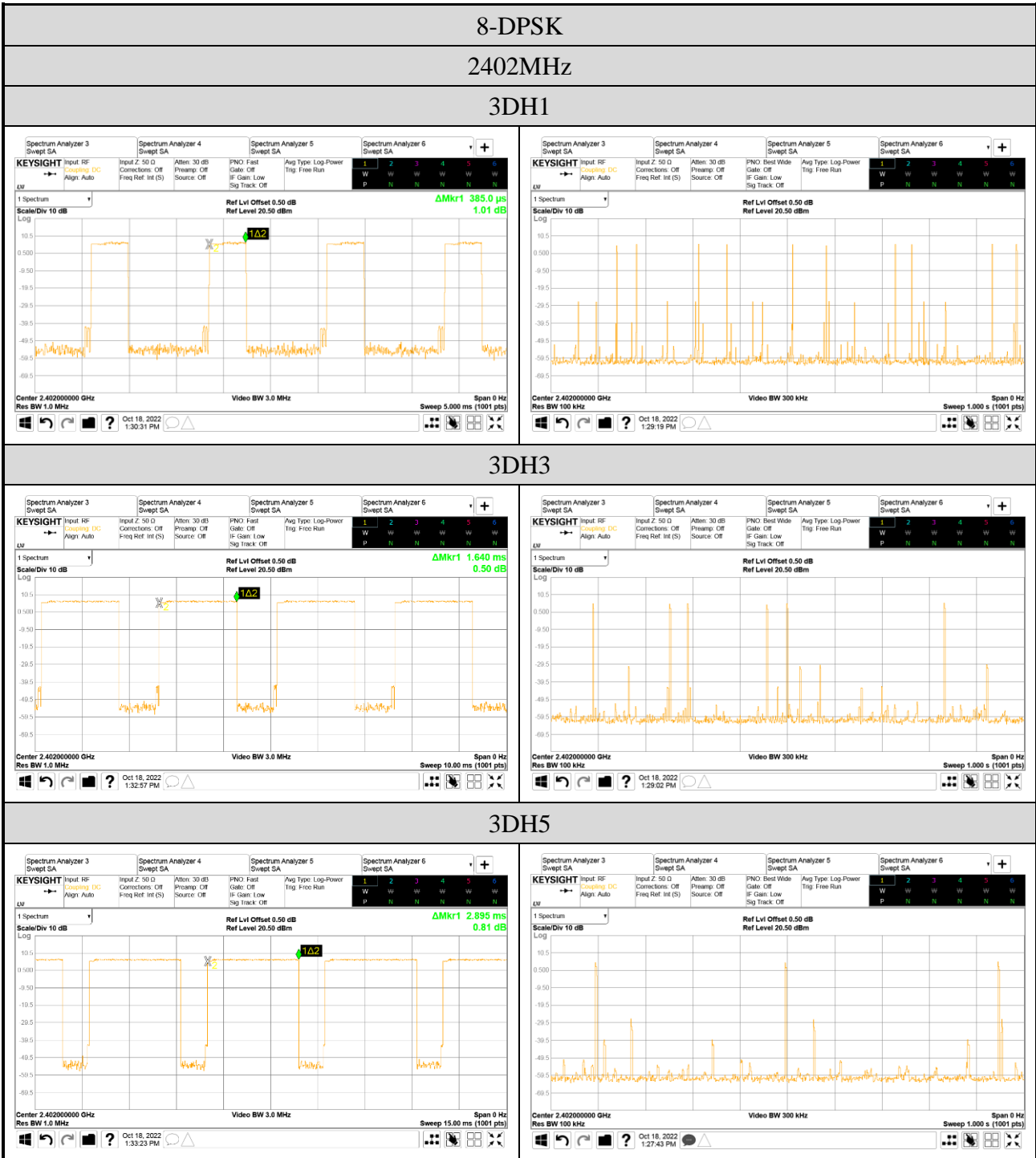
3DH3 Mode

For each second of **6** transmission appearance, the longest time of occupancy is
6 transmission * **31.6** seconds * **1.640** ms = **310.944** ms (<400ms)

3DH5 Mode

For each second of **3** transmission appearance, the longest time of occupancy is
3 transmission * **31.6** seconds * **2.895** ms = **274.446** ms (<400ms)

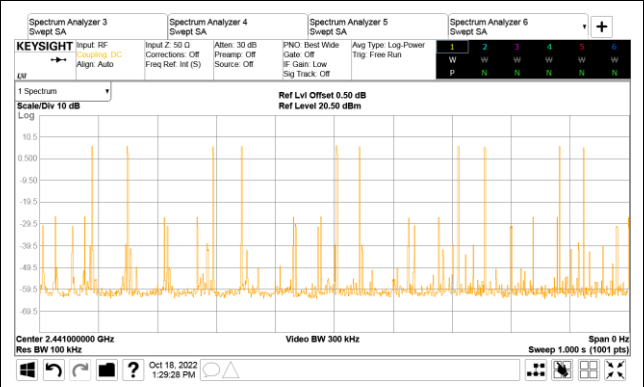
● Measurement Plots



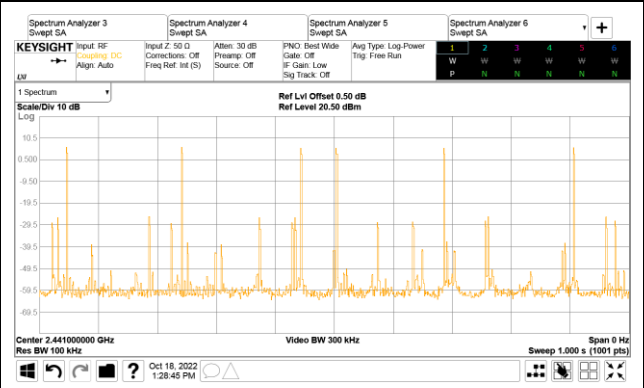
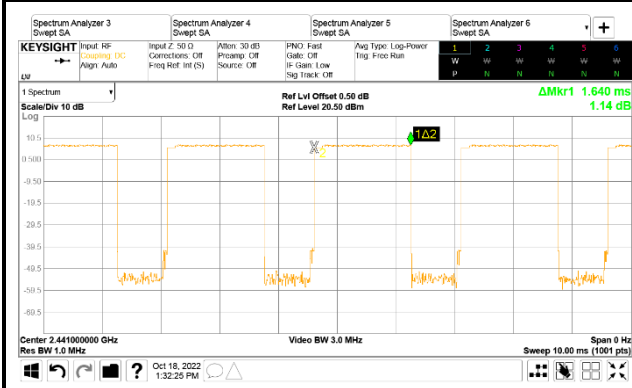
8-DPSK

2441MHz

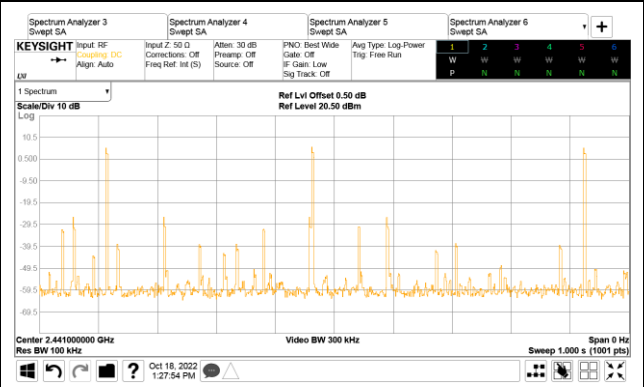
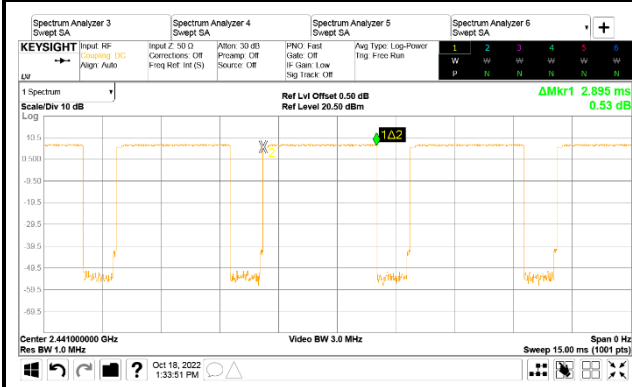
3DH1



3DH3



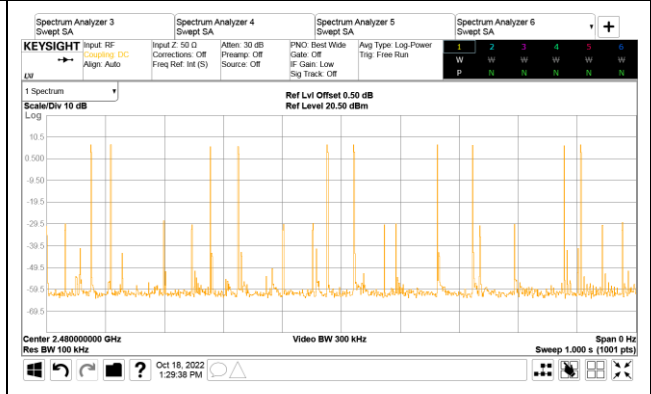
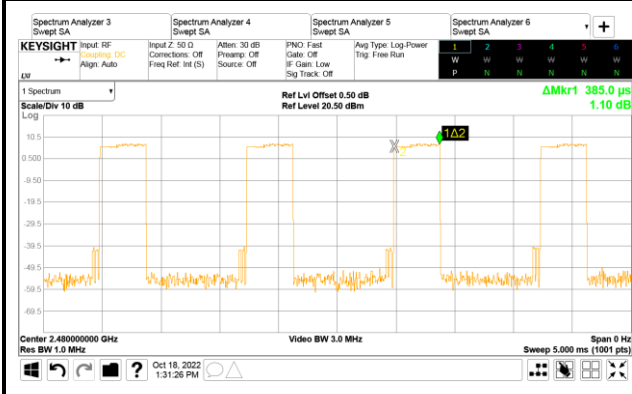
3DH5



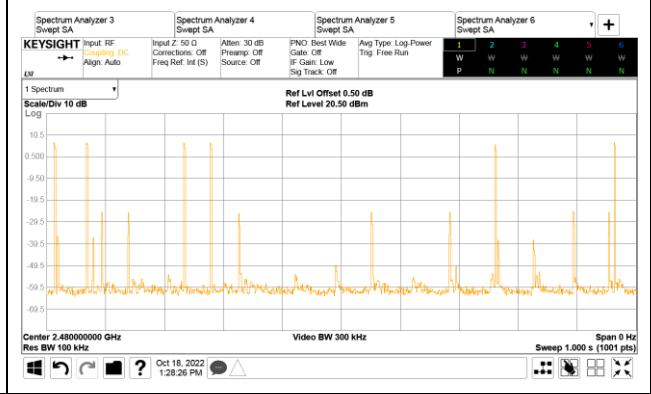
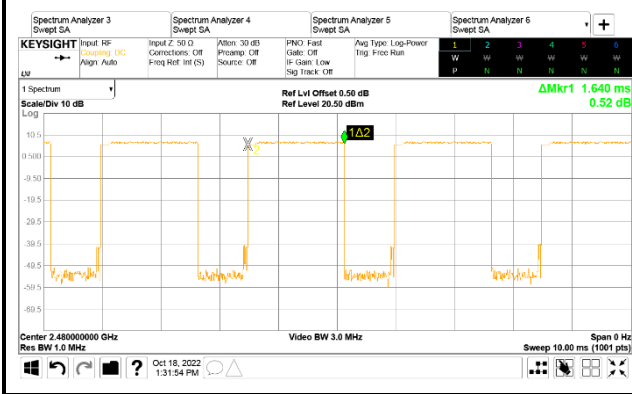
8-DPSK

2480MHz

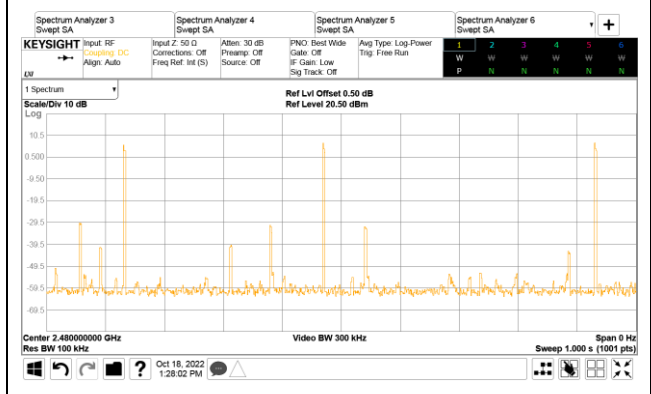
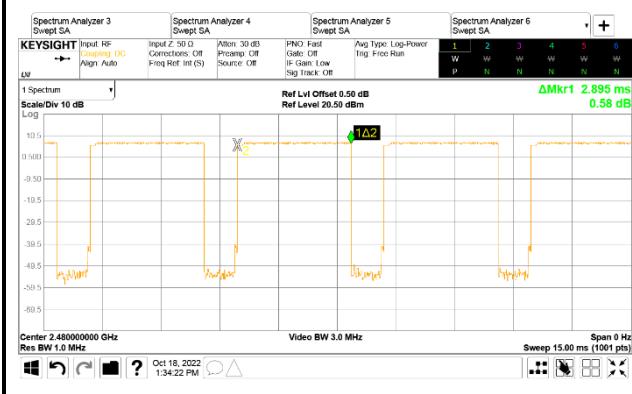
3DH1



3DH3



3DH5



A.6 NUMBER OF HOPPING CHANNELS

Test Date	2022/10/18	Temp./Hum.	24°C/71%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

Mode: GFSK	Mode: 8-DPSK
<p>The number hopping channel is 79.</p>	<p>The number hopping channel is 79.</p>

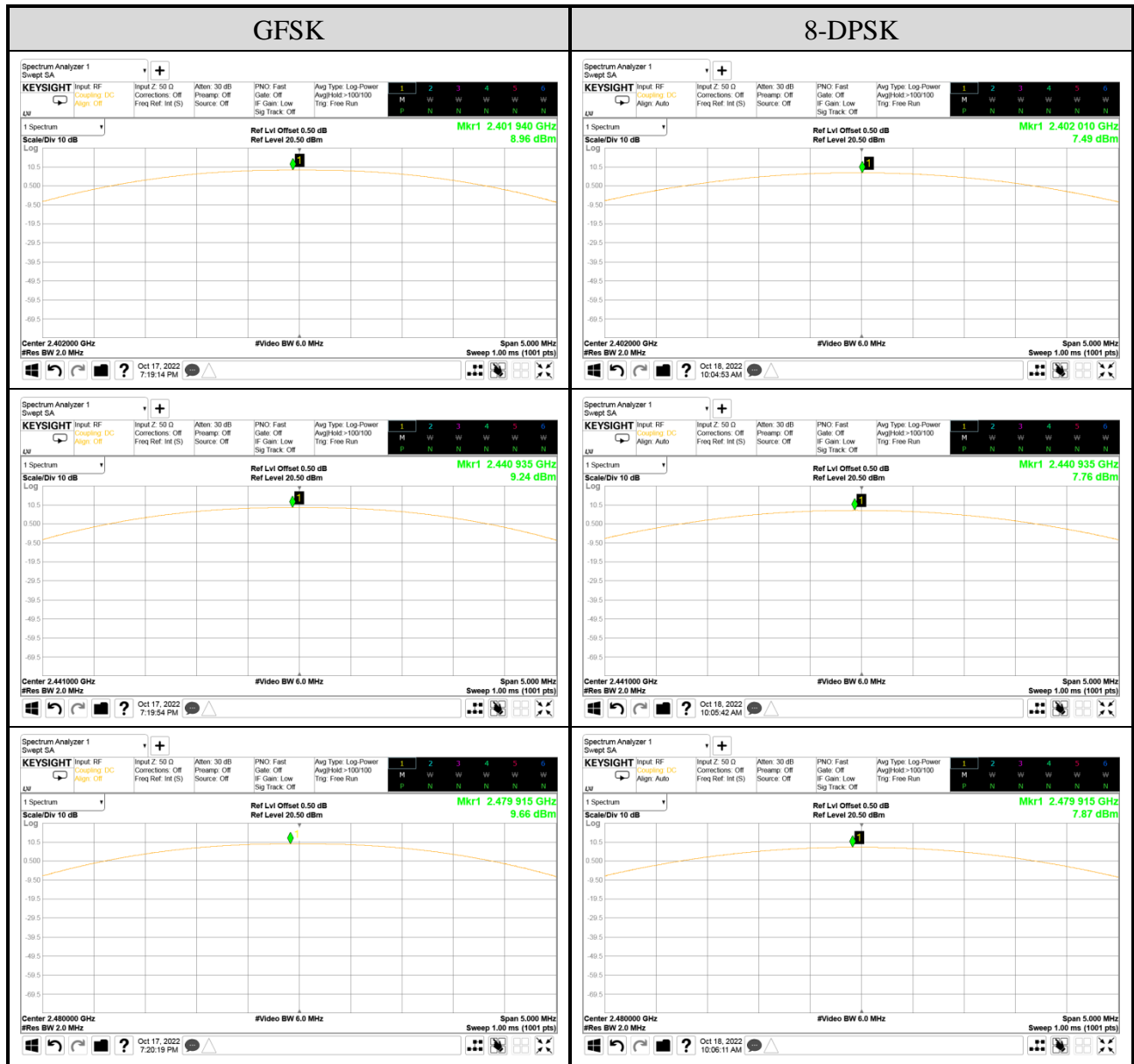
A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2022/10/17 ~ 18	Temp./Hum.	23 ~ 24°C / 71 ~ 76%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.7.1 Maximum Peak Output Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	8.96	0.008	21dBm (0.125W)
	2441	9.24	0.008	
	2480	9.66	0.009	
8-DPSK	2402	7.49	0.006	
	2441	7.76	0.006	
	2480	7.87	0.006	

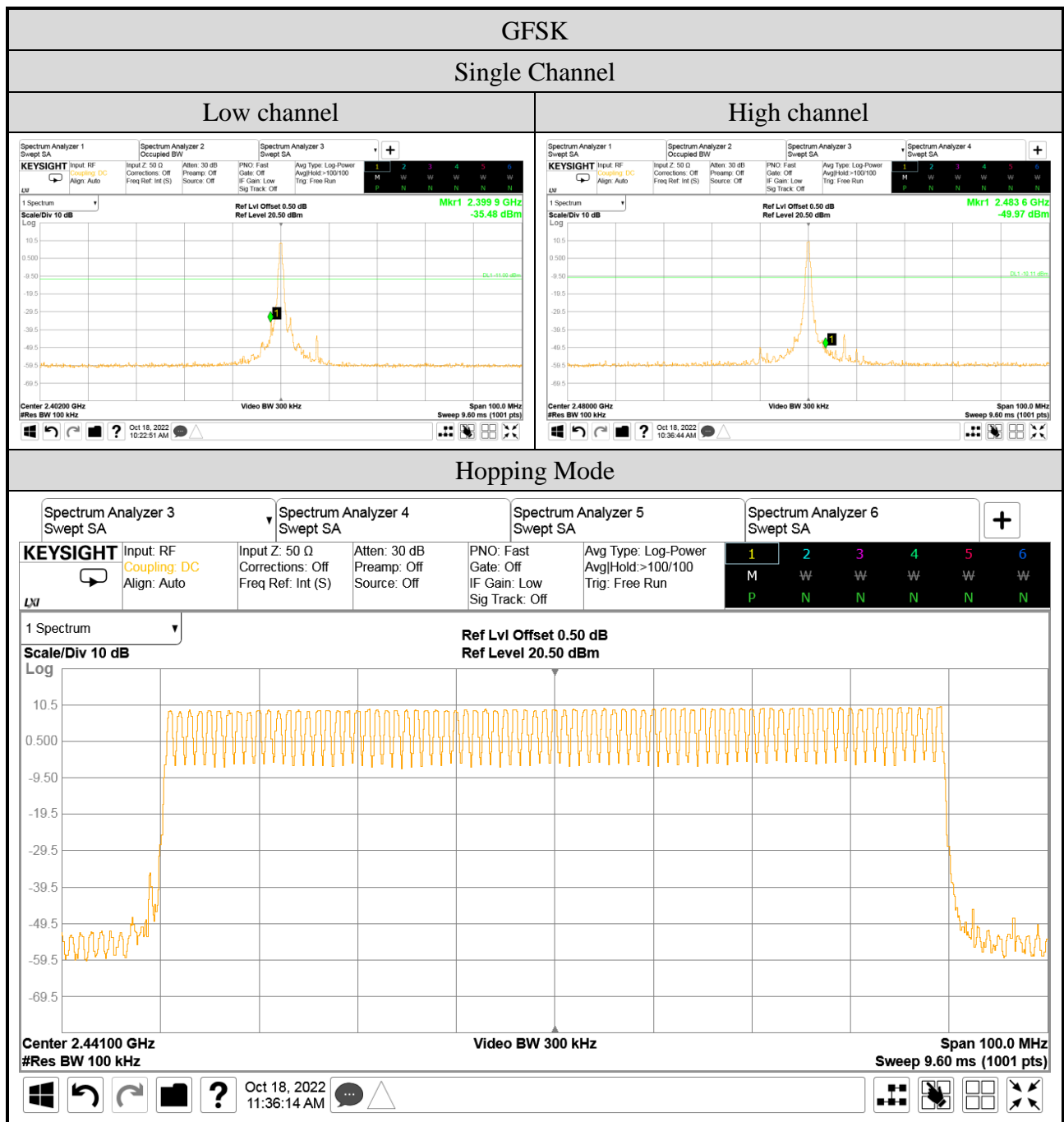
A.7.2 Measurement Plots

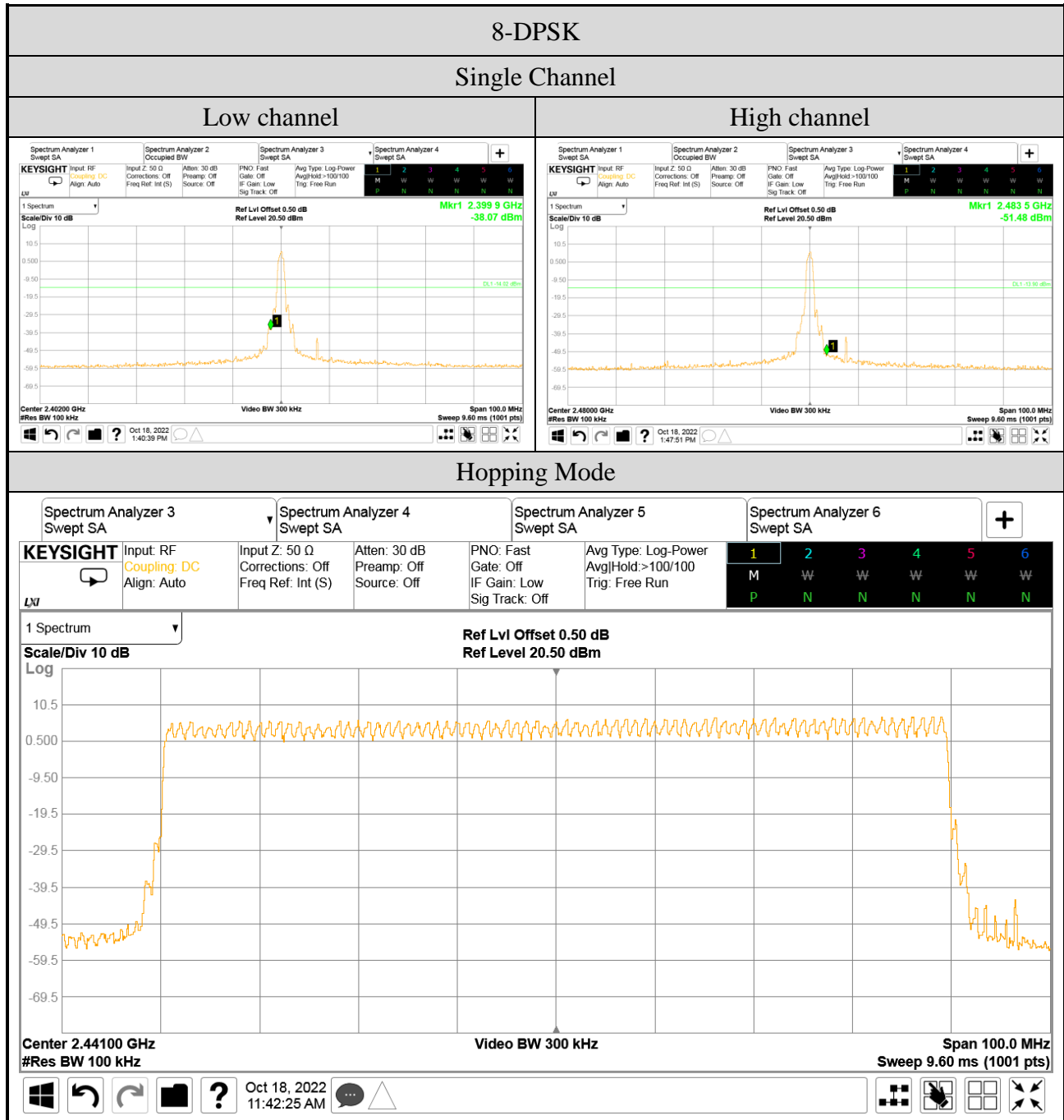


A.8 EMISSION LIMITATIONS MEASUREMENT

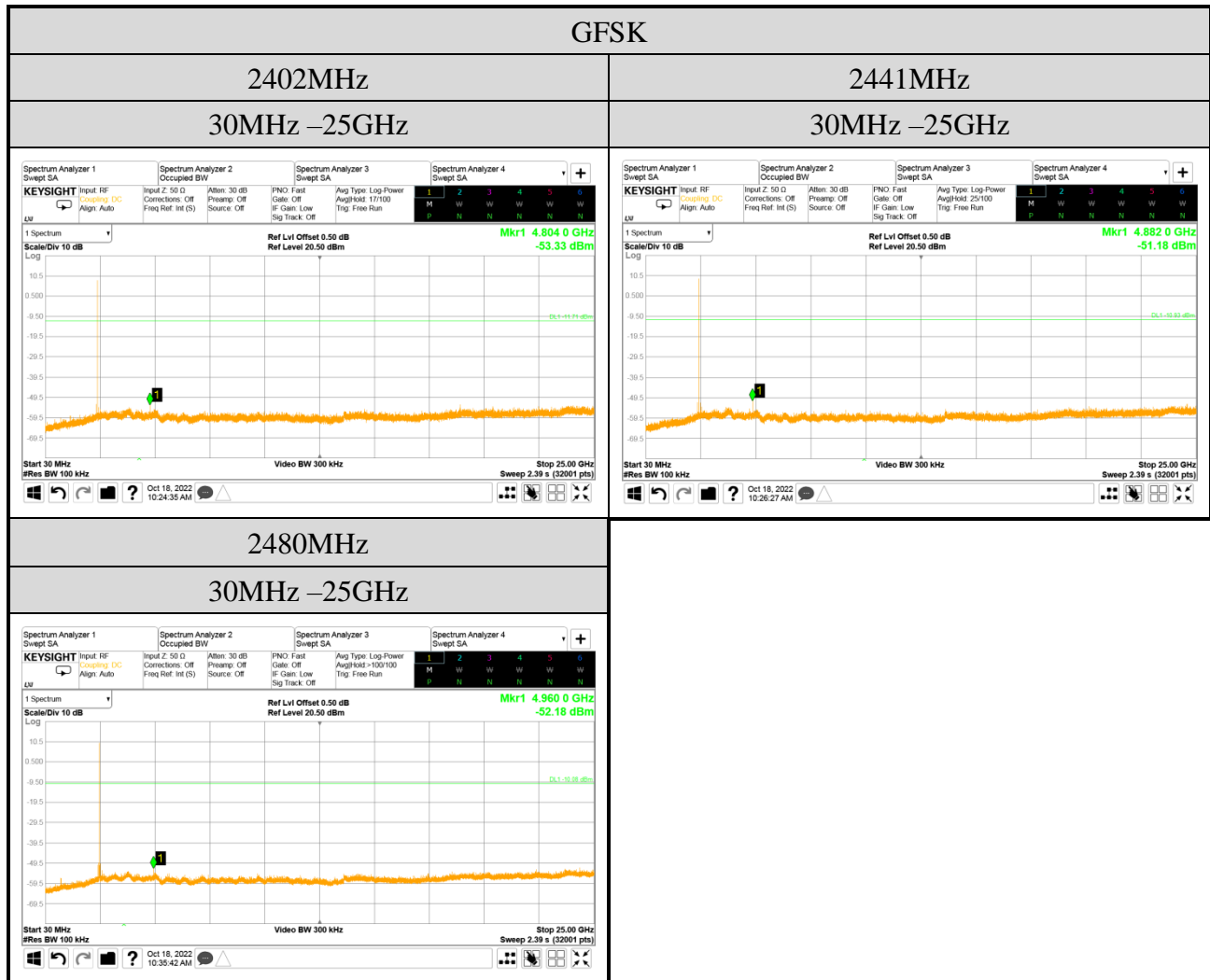
Test Date	2022/10/18	Temp./Hum.	24°C/71%
Cable Loss	0.5dB	Tested By	Brian Hsieh
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge

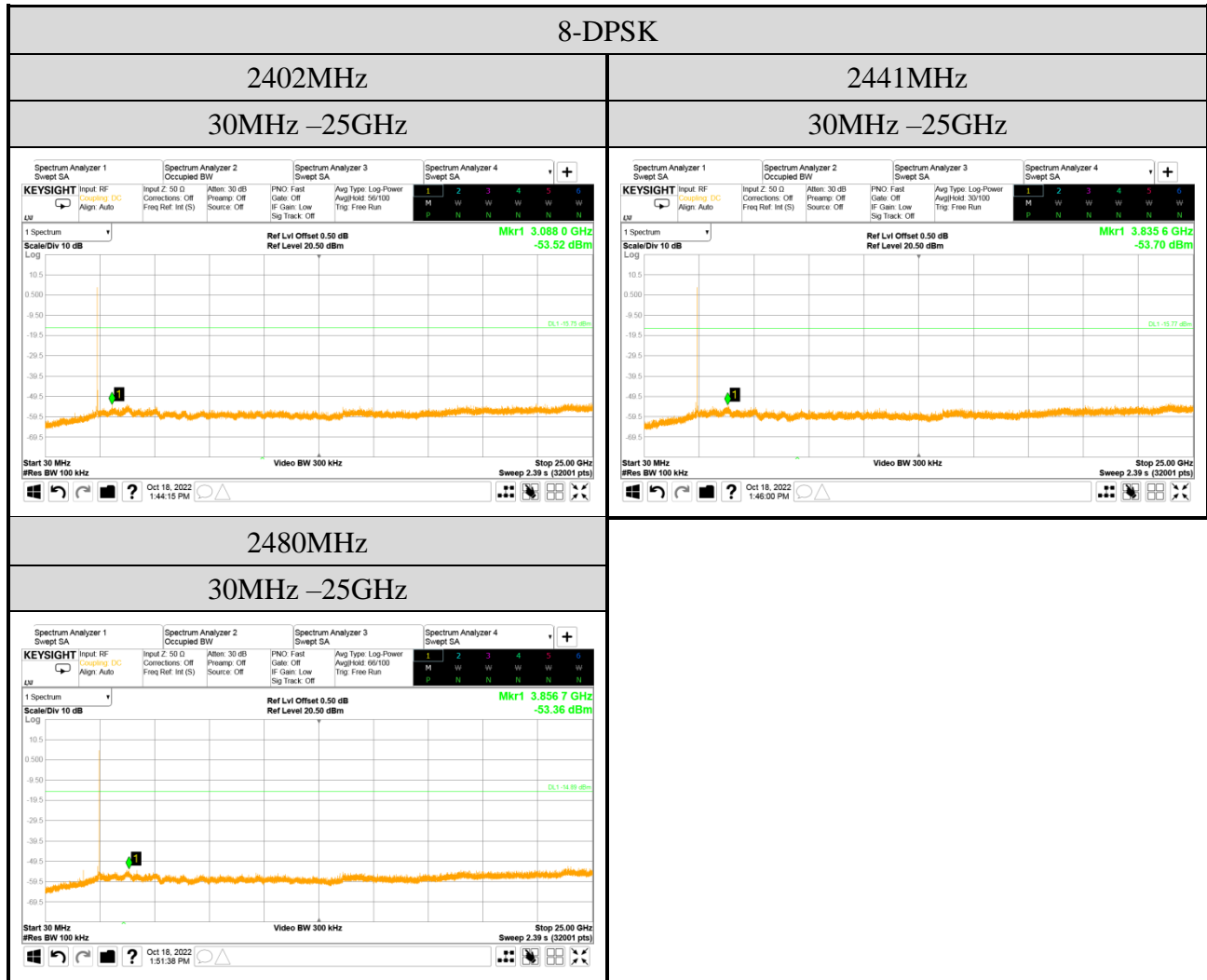




A.8.2 Spurious Emission



Note: All results have been included cable loss.



Note: All results have been included cable loss.