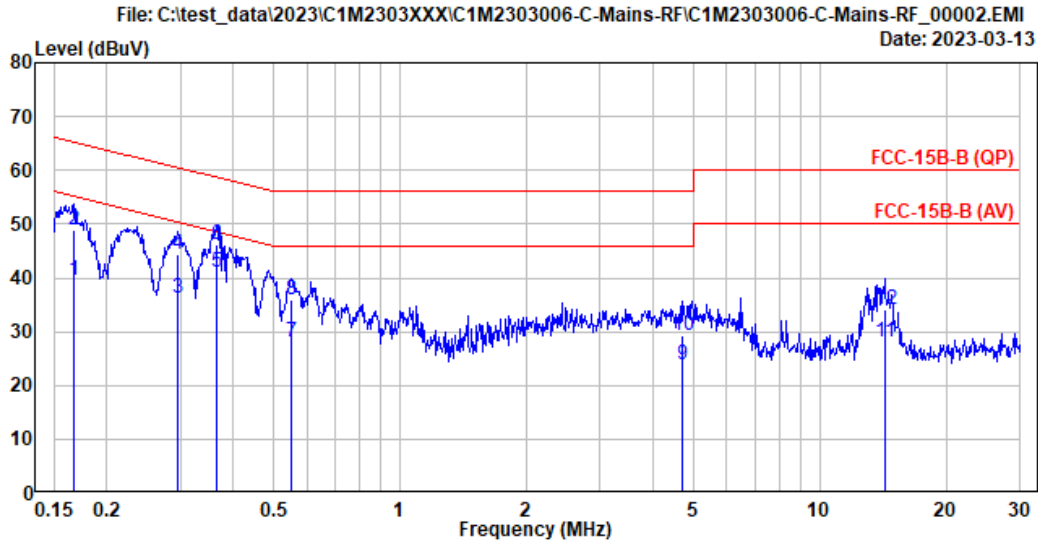


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## A.1 CONDUCTED EMISSION

Test Date	2023/03/13	Temp./Hum.	23°C/51%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Ken Yang

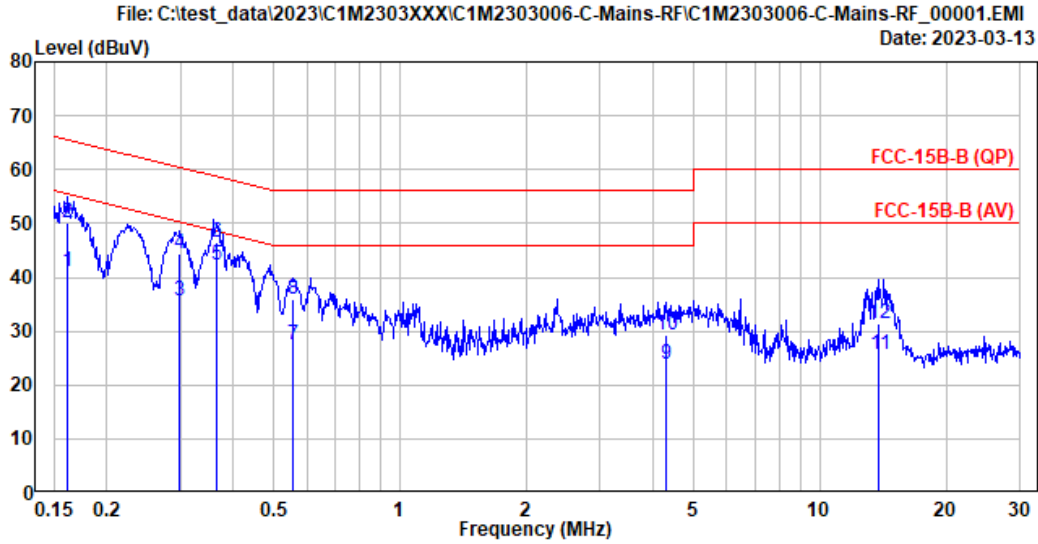


Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: FCC-15B-B (QP)	Phase	: Neutral
Environment	: 23°C/51%	Test Rating	: 120Vac/60Hz
EUT Model	: 16U75R	Engineer	: Ken Yang
Test Mode	: Normal		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.167	10.33	0.03	9.85	19.23	39.44	55.13	15.69	Average
2	0.167	10.33	0.03	9.85	28.64	48.85	65.13	16.28	QP
3	0.295	10.32	0.03	9.85	16.02	36.22	50.37	14.15	Average
4	0.295	10.32	0.03	9.85	24.25	44.45	60.37	15.92	QP
5	0.364	10.32	0.03	9.85	20.85	41.05	48.63	7.58	Average
6	0.364	10.32	0.03	9.85	25.97	46.17	58.63	12.46	QP
7	0.551	10.33	0.03	9.85	7.89	28.10	46.00	17.90	Average
8	0.551	10.33	0.03	9.85	15.68	35.89	56.00	20.11	QP
9	4.721	10.44	0.09	9.87	3.44	23.84	46.00	22.16	Average
10	4.721	10.44	0.09	9.87	8.94	29.34	56.00	26.66	QP
11	14.275	10.85	0.17	9.91	7.12	28.05	50.00	21.95	Average
12	14.275	10.85	0.17	9.91	13.05	33.98	60.00	26.02	QP

Remarks: 1. Emission Level(dBµV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBµV).

Test Date	2023/03/13	Temp./Hum.	23°C/51%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Ken Yang



Site No.	: No.8 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR(774)	Phase	: Line
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)	Test Rating	: 120Vac/60Hz
Limit	: FCC-15B-B (QP)	Engineer	: Ken Yang
Environment	: 23°C/51%		
EUT Model	: 16U75R		
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	0.162	10.22	0.03	9.85	21.00	41.10	55.38	14.28	Average
2	0.162	10.22	0.03	9.85	29.87	49.97	65.38	15.41	QP
3	0.298	10.22	0.03	9.85	15.66	35.76	50.29	14.53	Average
4	0.298	10.22	0.03	9.85	24.42	44.52	60.29	15.77	QP
5	0.366	10.22	0.03	9.85	22.20	42.30	48.59	6.29	Average
6	0.366	10.22	0.03	9.85	26.31	46.41	58.59	12.18	QP
7	0.556	10.22	0.03	9.85	7.47	27.57	46.00	18.43	Average
8	0.556	10.22	0.03	9.85	15.90	36.00	56.00	20.00	QP
9	4.294	10.29	0.08	9.86	3.48	23.71	46.00	22.29	Average
10	4.294	10.29	0.08	9.86	9.14	29.37	56.00	26.63	QP
11	13.855	10.52	0.16	9.91	5.18	25.77	50.00	24.23	Average
12	13.855	10.52	0.16	9.91	10.87	31.46	60.00	28.54	QP

Remarks: 1. Emission Level(dBµV)= AMN Factor(dB) + Cable Loss(dB) + Pulse Att.(dB) + Reading(dBµV).

## A.2 RADIATED EMISSION

Test Date	2023/03/09 ~ 13	Temp./Hum.	20 ~ 22°C/54 ~ 62%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Kuper Hsu

### 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

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
40.670	18.93	1.65	26.47	37.55	31.66	40.00	8.34	Peak
101.780	16.96	2.63	26.28	36.35	29.67	43.50	13.83	Peak
299.660	19.30	4.69	25.61	32.82	31.20	46.00	14.80	Peak
442.250	22.46	6.30	26.75	32.12	34.14	46.00	11.86	Peak
540.220	23.86	6.90	27.24	33.92	37.44	46.00	8.56	Peak
672.140	24.64	7.49	27.42	32.80	37.52	46.00	8.48	Peak

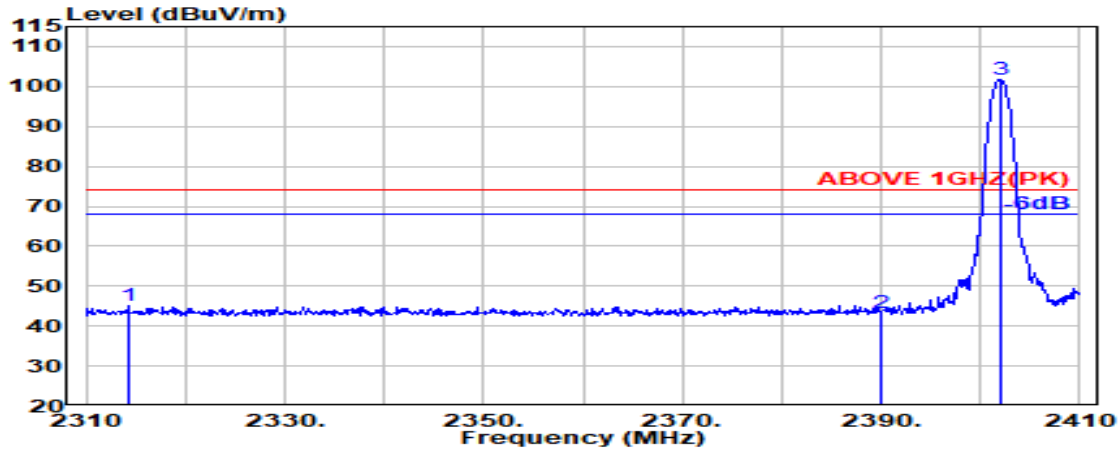
#### Antenna at Vertical Polarization

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
30.000	23.27	1.41	26.49	39.54	37.73	40.00	2.27	Peak
128.940	17.78	2.96	26.11	32.15	26.78	43.50	16.72	Peak
337.490	20.24	5.20	25.95	31.12	30.61	46.00	15.39	Peak
449.040	22.57	6.36	26.80	32.80	34.94	46.00	11.06	Peak
540.220	23.86	6.90	27.24	34.18	37.70	46.00	8.30	Peak
646.920	24.56	7.36	27.41	32.53	37.03	46.00	8.97	Peak

A.2.1.3 Frequency Above 1 GHz to 10<sup>th</sup> harmonics

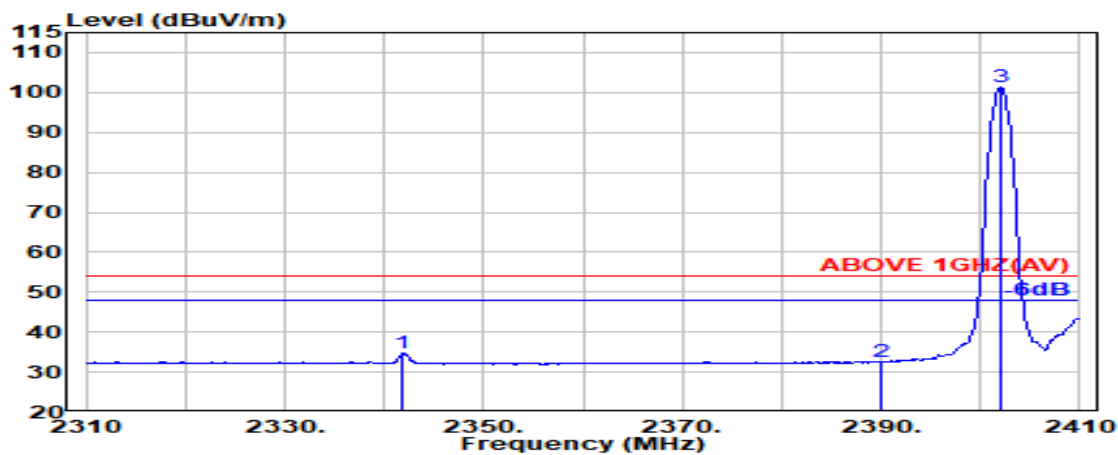
**Band Edge:**

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
2314.200	32.14	5.60	34.49	41.77	45.02	74.00	28.98	Peak
2390.000	32.00	5.72	34.51	40.07	43.28	74.00	30.72	Peak
@ 2402.000	32.00	5.74	34.51	98.39	101.62	---	---	Peak

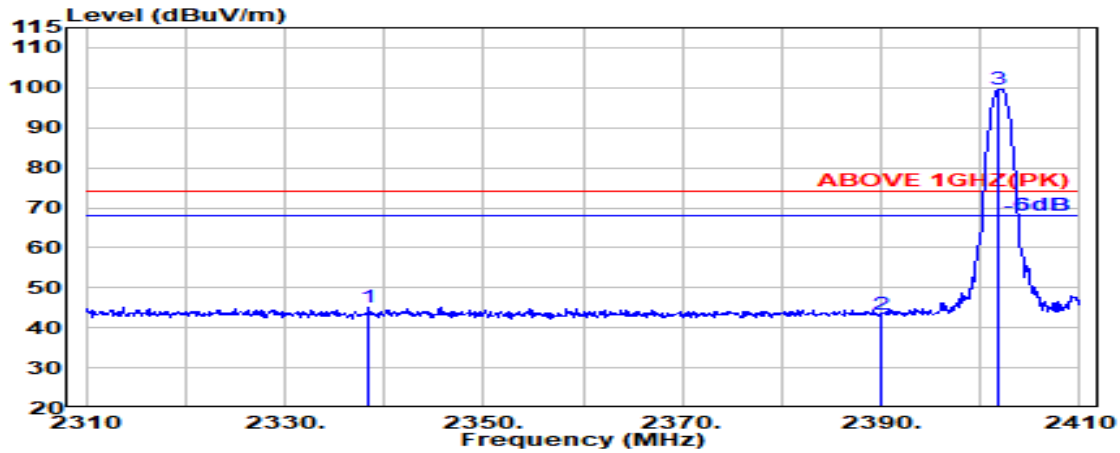


Antenna at Horizontal Polarization

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
2341.900	32.03	5.65	34.50	31.39	34.57	54.00	19.43	Average
2390.000	32.00	5.72	34.51	29.32	32.54	54.00	21.46	Average
@ 2402.000	32.00	5.74	34.51	98.05	101.28	---	---	Average

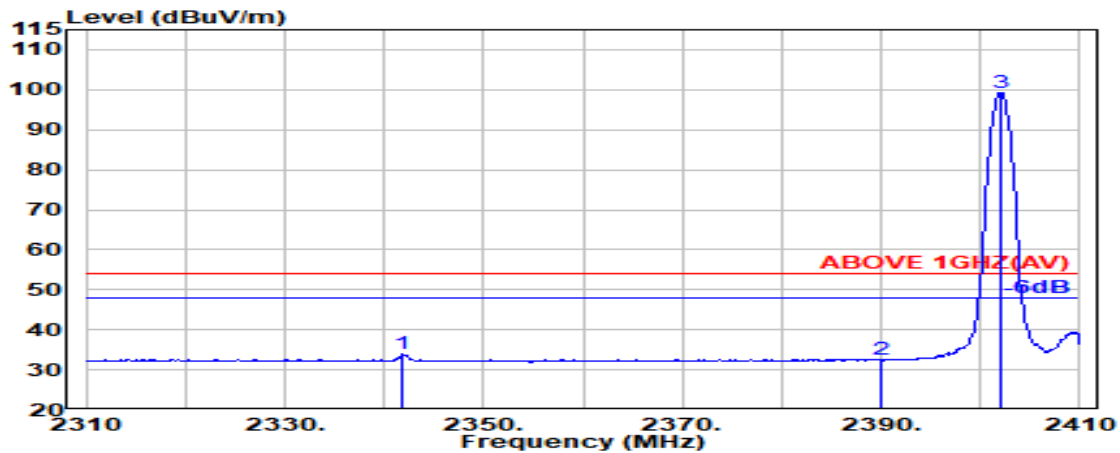
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2338.400	32.05	5.64	34.50	42.02	45.21	74.00	28.79	Peak
2390.000	32.00	5.72	34.51	40.15	43.37	74.00	30.63	Peak
@ 2401.800	32.00	5.74	34.51	96.40	99.63	---	---	Peak

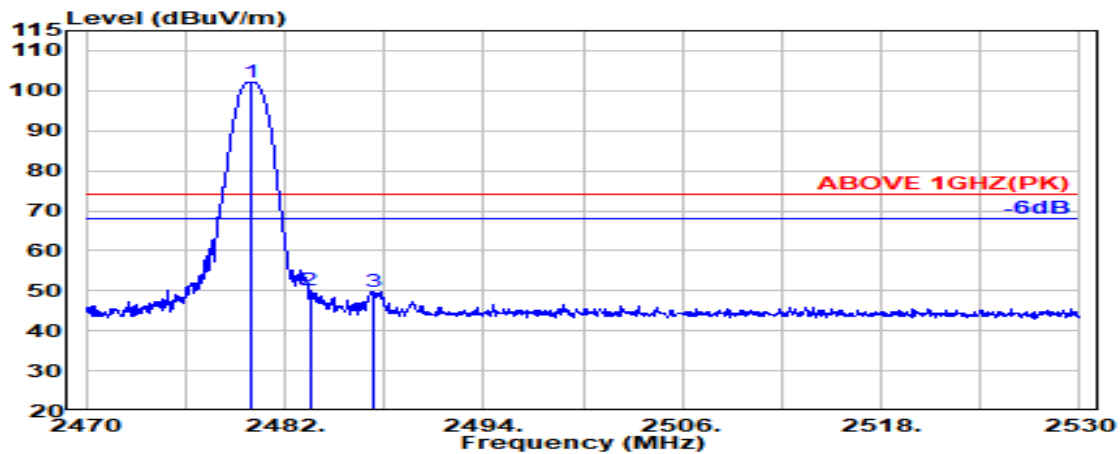


Antenna at Vertical Polarization

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
2341.900	32.03	5.65	34.50	30.71	33.89	54.00	20.11	Average
2390.000	32.00	5.72	34.51	29.27	32.49	54.00	21.51	Average
@ 2402.000	32.00	5.74	34.51	96.12	99.35	---	---	Average

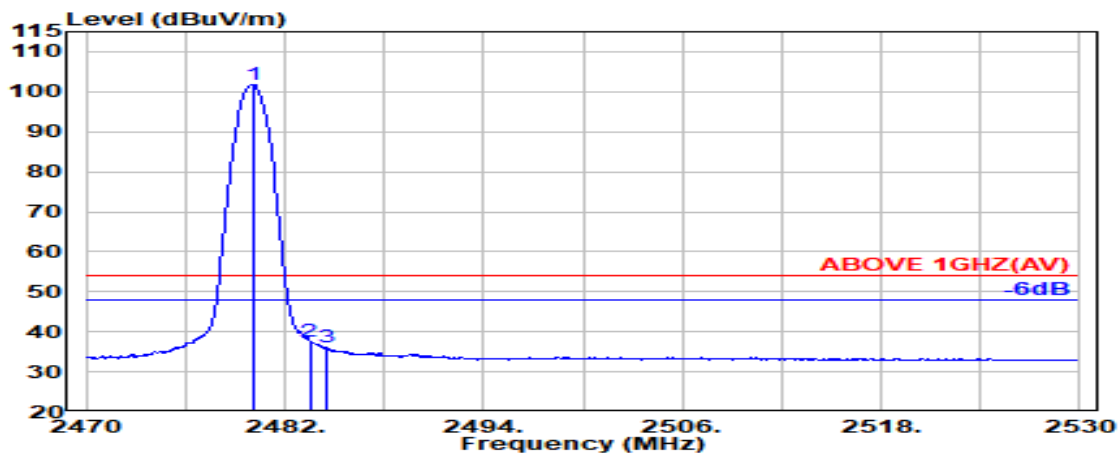
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2479.950	32.36	5.86	34.53	98.56	102.26	---	---	Peak
2483.500	32.40	5.87	34.53	46.20	49.94	74.00	24.06	Peak
2487.300	32.45	5.87	34.53	45.95	49.74	74.00	24.26	Peak

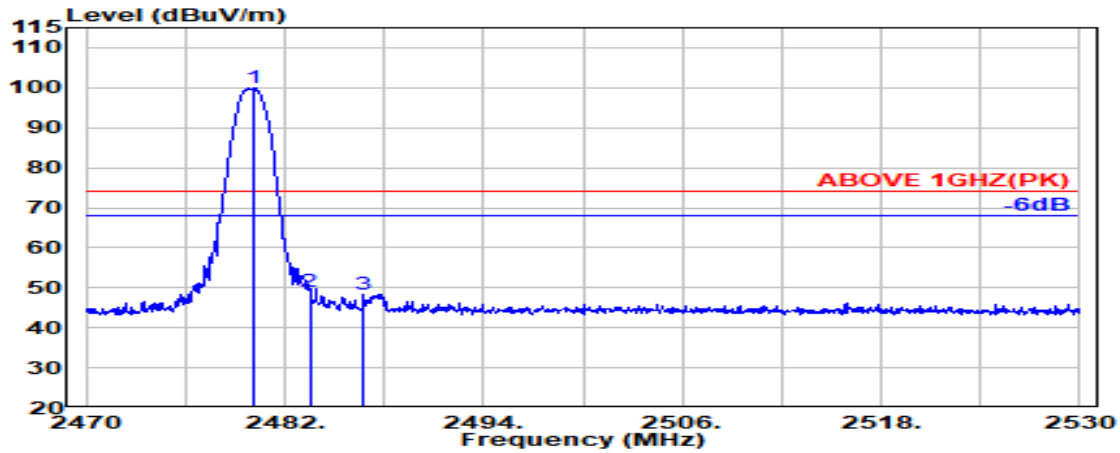


Antenna at Horizontal Polarization

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
@ 2480.050	32.36	5.86	34.53	98.15	101.84	---	---	Average
2483.500	32.40	5.87	34.53	33.96	37.70	54.00	16.30	Average
2484.500	32.42	5.87	34.53	32.30	36.05	54.00	17.95	Average

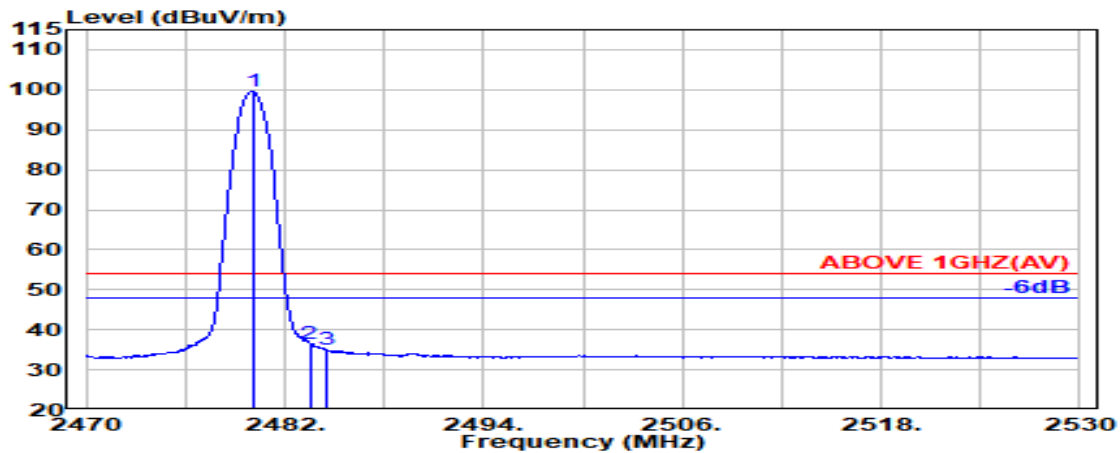
Remark: The "@" means fundamental frequency, it is ignored in this section.

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
@ 2480.150	32.36	5.86	34.53	96.10	99.80	---	---	Peak
2483.500	32.40	5.87	34.53	45.31	49.06	74.00	24.94	Peak
2486.750	32.44	5.87	34.53	44.64	48.43	74.00	25.57	Peak



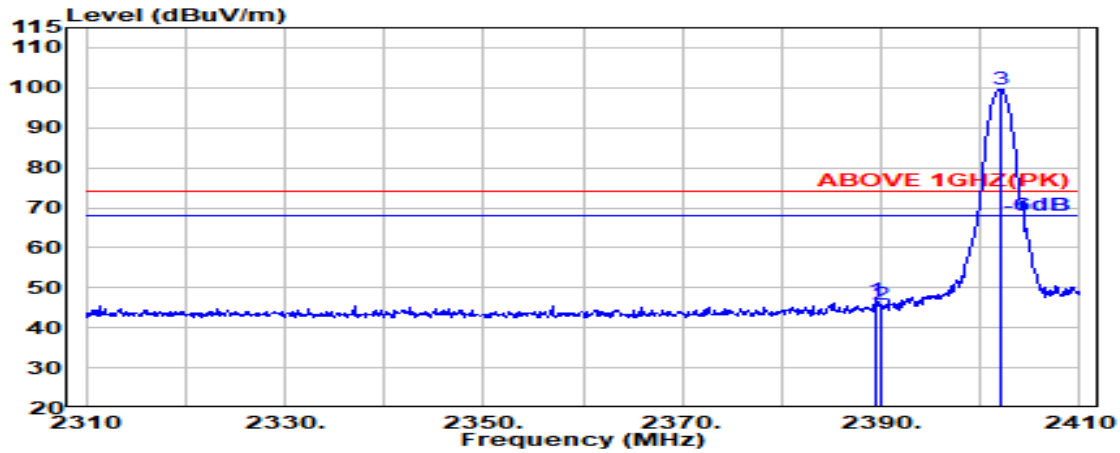
Antenna at Vertical Polarization

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
@ 2480.050	32.36	5.86	34.53	95.97	99.67	---	---	Average
2483.500	32.40	5.87	34.53	32.85	36.59	54.00	17.41	Average
2484.500	32.42	5.87	34.53	31.28	35.03	54.00	18.97	Average

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

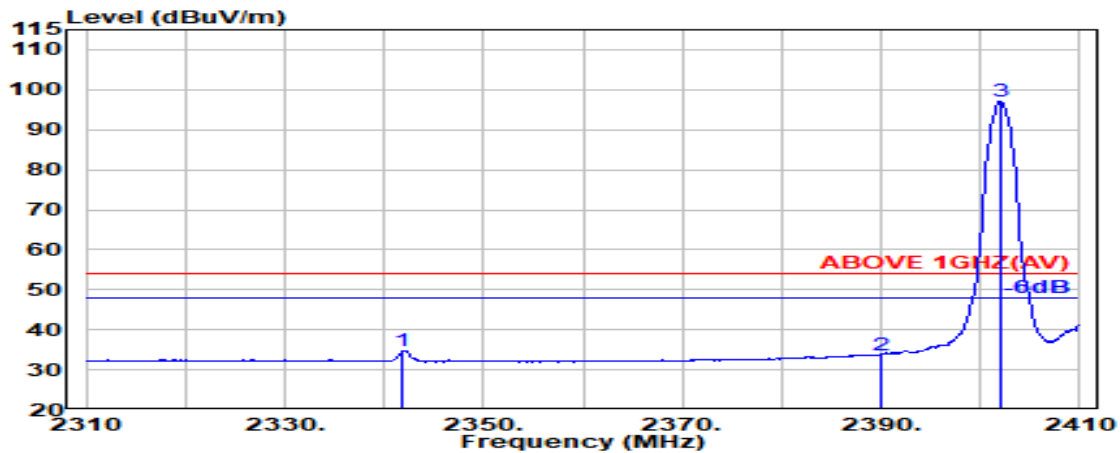


Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

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
2389.600	32.00	5.72	34.51	43.82	47.03	74.00	26.97	Peak
2390.000	32.00	5.72	34.51	42.53	45.74	74.00	28.26	Peak
@ 2402.000	32.00	5.74	34.51	96.39	99.62	---	---	Peak

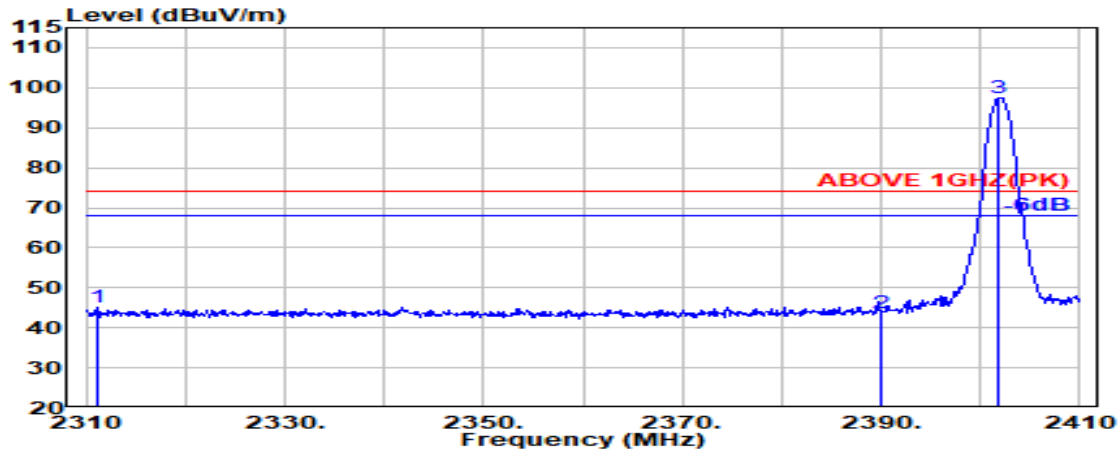


Antenna at Horizontal Polarization

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
2341.800	32.03	5.65	34.50	31.43	34.62	54.00	19.38	Average
2390.000	32.00	5.72	34.51	30.49	33.71	54.00	20.29	Average
@ 2402.100	32.00	5.74	34.51	93.75	96.98	---	---	Average

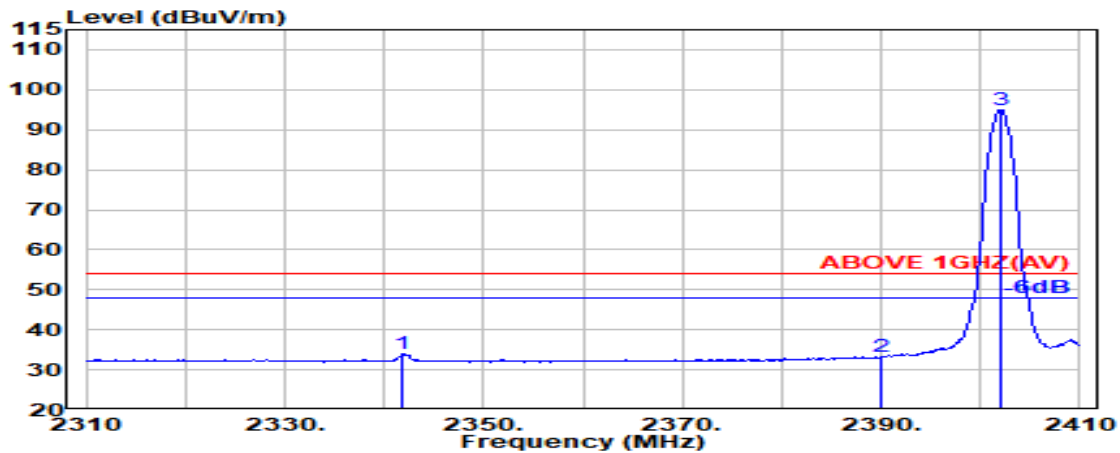
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2311.200	32.15	5.60	34.49	41.97	45.23	74.00	28.77	Peak
2390.000	32.00	5.72	34.51	40.29	43.50	74.00	30.50	Peak
@ 2401.900	32.00	5.74	34.51	94.31	97.54	---	---	Peak

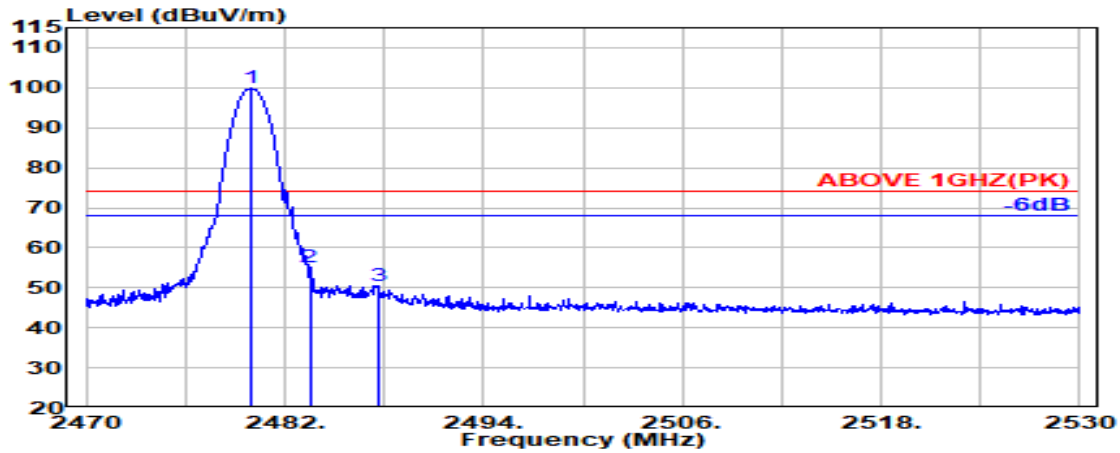


Antenna at Vertical Polarization

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	32.03	5.65	34.50	30.75	33.93	54.00	20.07	Average
2390.000	32.00	5.72	34.51	29.95	33.17	54.00	20.83	Average
@ 2402.100	32.00	5.74	34.51	91.80	95.03	---	---	Average

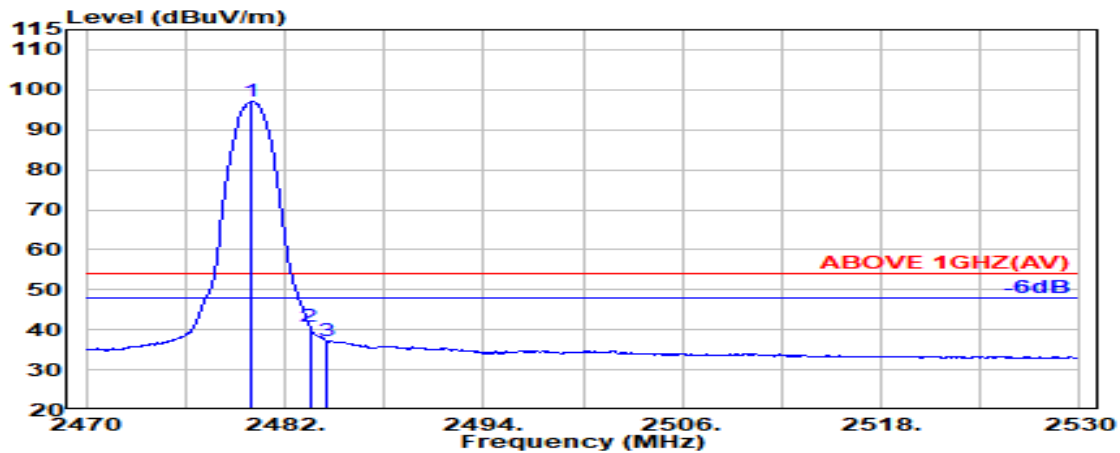
Remark: The "@" means fundamental frequency, it is ignored in this section.

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
@ 2479.950	32.36	5.86	34.53	96.08	99.78	---	---	Peak
2483.500	32.40	5.87	34.53	51.38	55.12	74.00	18.88	Peak
2487.650	32.45	5.87	34.53	46.76	50.56	74.00	23.44	Peak

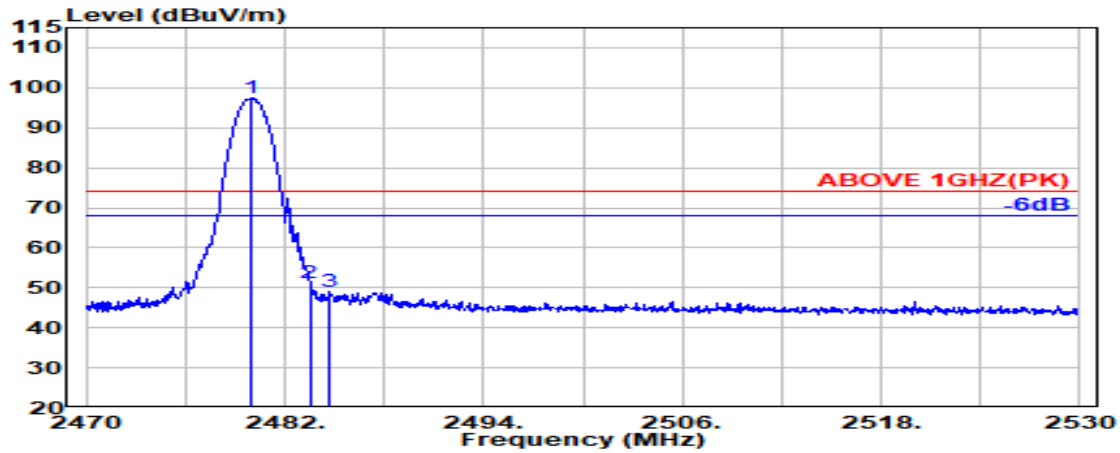


Antenna at Horizontal Polarization

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	32.36	5.86	34.53	93.40	97.10	---	---	Average
2483.500	32.40	5.87	34.53	37.08	40.82	54.00	13.18	Average
2484.550	32.42	5.87	34.53	33.63	37.38	54.00	16.62	Average

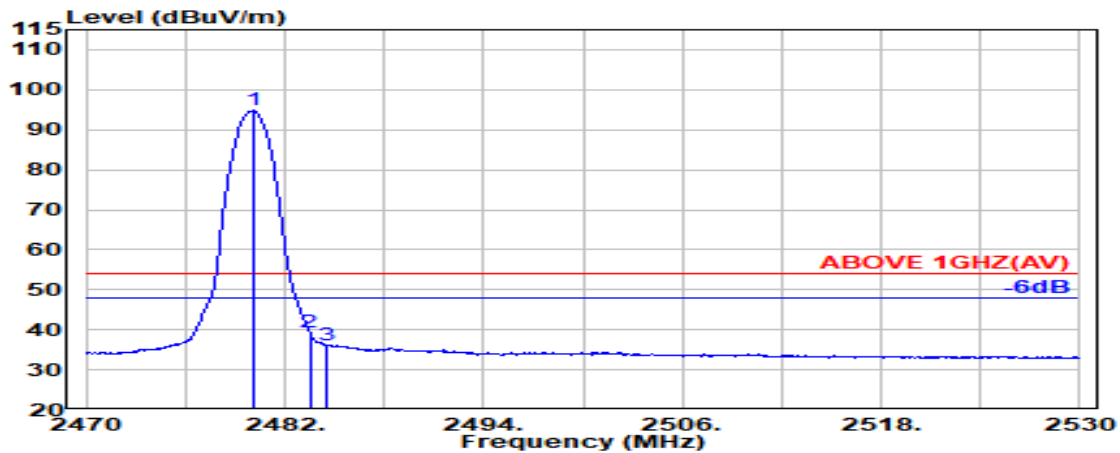
Remark: The "@" means fundamental frequency, it is ignored in this section.

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	32.36	5.86	34.53	93.63	97.33	---	---	Peak
2483.500	32.40	5.87	34.53	47.35	51.09	74.00	22.91	Peak
2484.650	32.42	5.87	34.53	45.34	49.10	74.00	24.90	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
@ 2480.100	32.36	5.86	34.53	91.08	94.78	---	---	Average
2483.500	32.40	5.87	34.53	35.57	39.31	54.00	14.69	Average
2484.500	32.42	5.87	34.53	32.52	36.27	54.00	17.73	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.

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	34.11	8.53	34.43	34.08	42.28	54.00	11.72	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	34.11	8.53	34.43	33.71	41.91	54.00	12.09	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	34.07	8.64	34.42	34.02	42.31	54.00	11.69	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	34.07	8.64	34.42	34.69	42.98	54.00	11.02	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	34.22	8.75	34.41	34.34	42.90	54.00	11.10	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	8.75	34.41	33.89	42.45	54.00	11.55	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

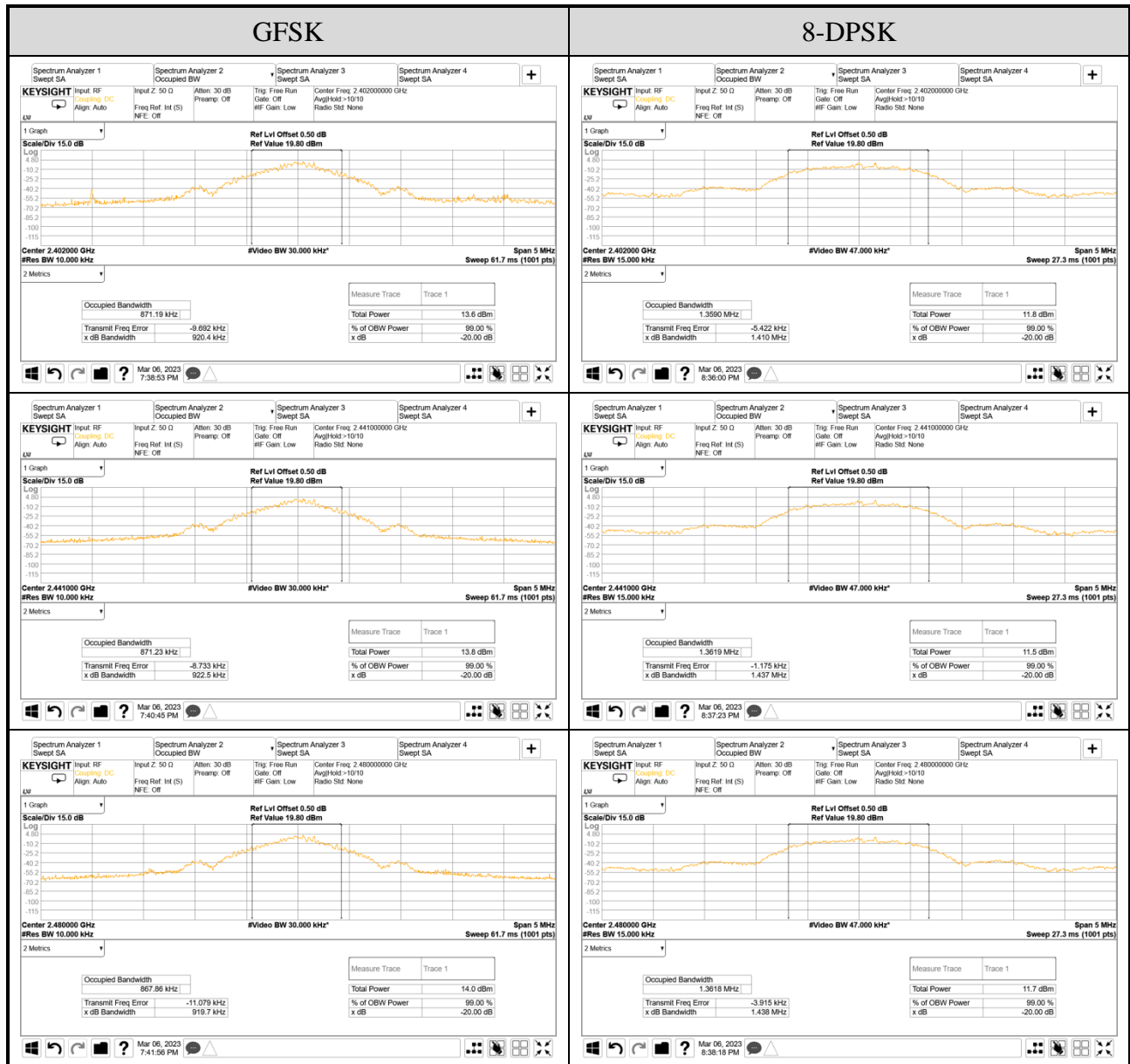
Test Date	2023/03/06	Temp./Hum.	21°C/43%
Cable Loss	0.5dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

### 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	0.9204	0.87119	0.614
	2441	0.9225	0.87123	0.615
	2480	0.9197	0.86786	0.613
8-DPSK	2402	1.410	1.3590	0.940
	2441	1.437	1.3619	0.958
	2480	1.438	1.3618	0.959

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

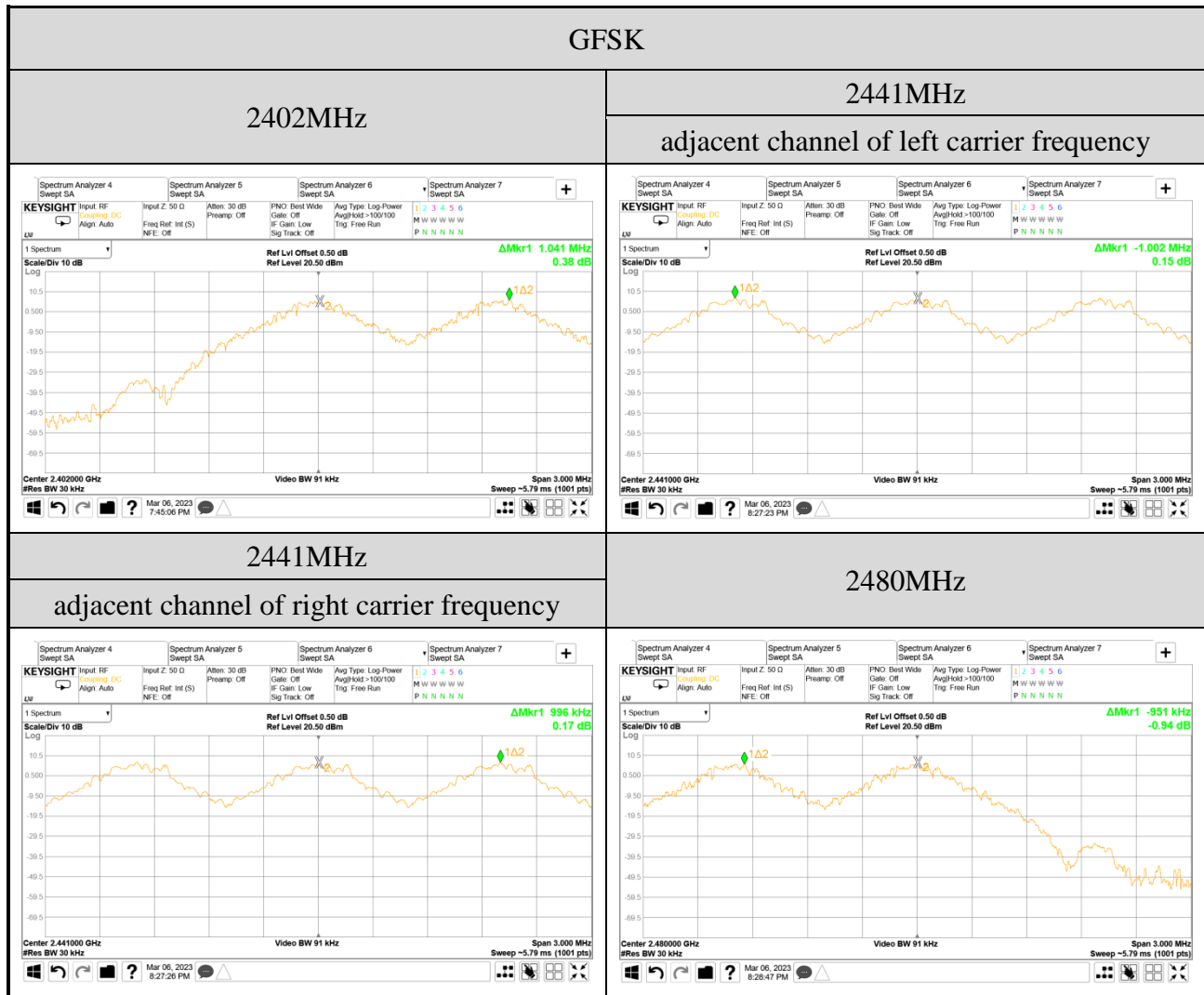
**A.3.2 Measurement Plots**

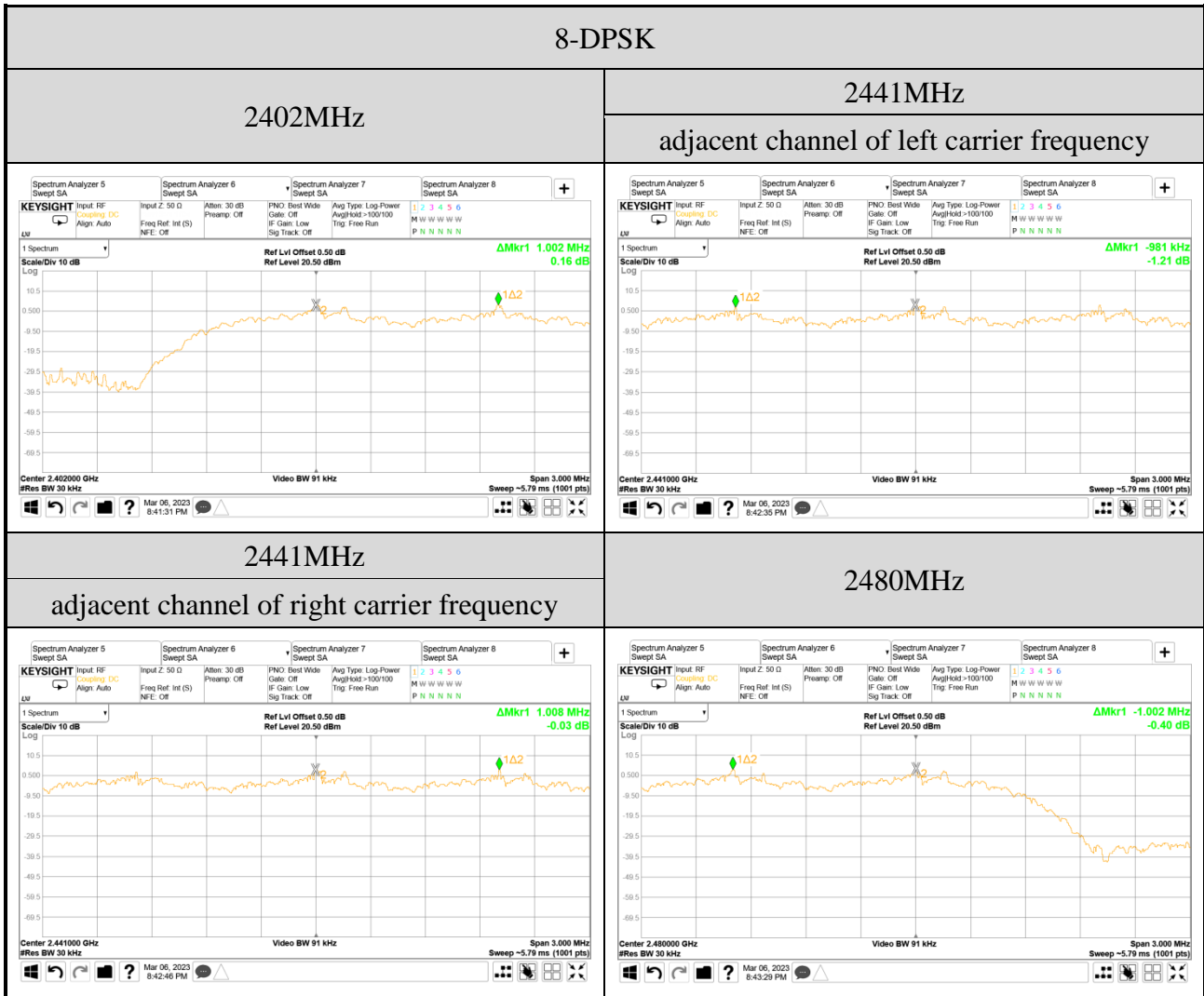




## A.4 CARRIER FREQUENCY SEPARATION

Test Date	2023/03/06	Temp./Hum.	21°C/43%
Cable Loss	0.5dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		





## A.5 TIME OF OCCUPANCY

Test Date	2023/03/06	Temp./Hum.	21°C/43%
Cable Loss	0.5dB	Tested By	Sam Chang
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	0.3842	121.407	<400
		DH3	4	1.642	207.549	<400
		DH5	3	2.885	273.498	<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 \* 0.384 ms = 121.407 ms (<400ms)

#### DH3 Mode

For each second of 4 transmission appearance, the longest time of occupancy is  
 4 transmission \* 31.6 seconds \* 1.642 ms = 207.549 ms (<400ms)

#### DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is  
 3 transmission \* 31.6 seconds \* 2.885 ms = 273.498 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	0.3842	121.407	<400
		DH3	4	1.642	207.549	<400
		DH5	3	2.885	273.498	<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 \* 0.384 ms = 121.407 ms (<400ms)

#### DH3 Mode

For each second of 4 transmission appearance, the longest time of occupancy is  
 4 transmission \* 31.6 seconds \* 1.642 ms = 207.549 ms (<400ms)

#### DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is  
 3 transmission \* 31.6 seconds \* 2.885 ms = 273.498 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	0.3842	121.407	<400
		DH3	4	1.642	207.549	<400
		DH5	3	2.885	273.498	<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 \* **0.384** ms = **121.407** ms (<400ms)

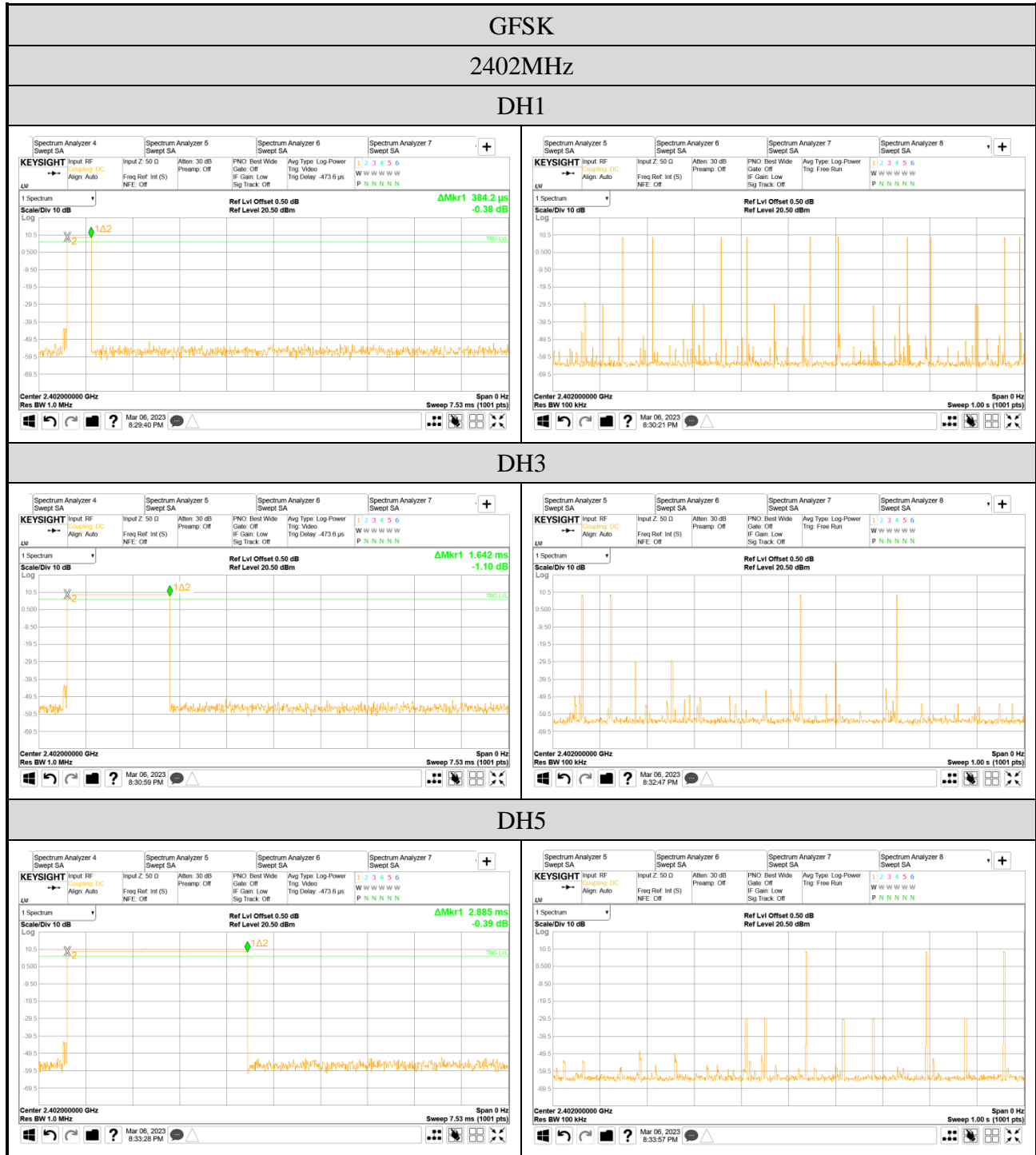
**DH3 Mode**

For each second of **4** transmission appearance, the longest time of occupancy is  
**4** transmission \* **31.6** seconds \* **1.642** ms = **207.549** ms (<400ms)

**DH5 Mode**

For each second of **3** transmission appearance, the longest time of occupancy is  
**3** transmission \* **31.6** seconds \* **2.885** ms = **273.498** ms (<400ms)

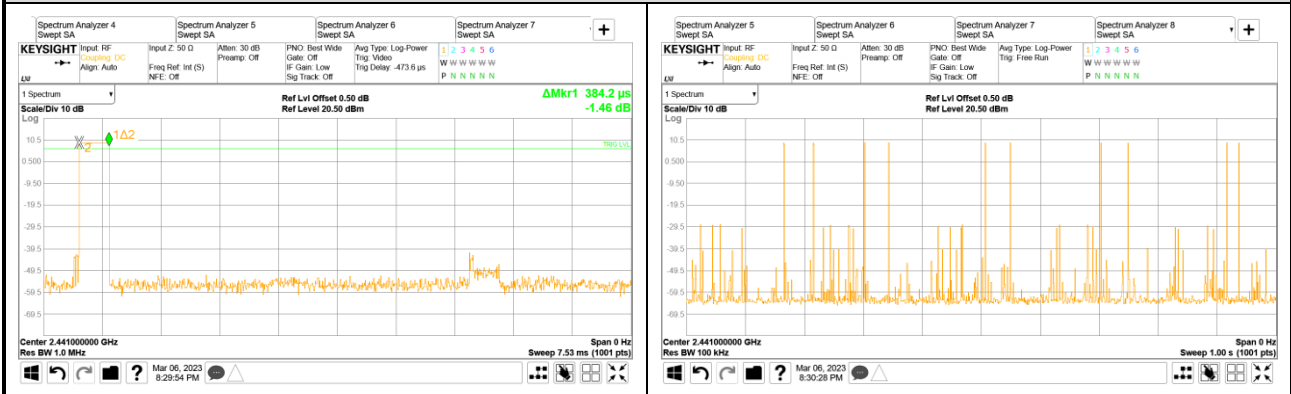
● Measurement Plots



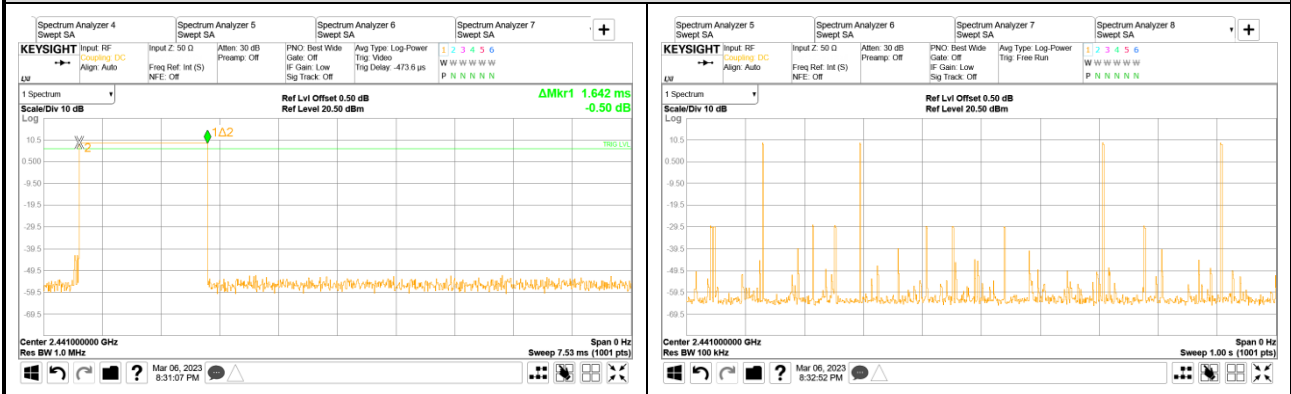
GFSK

2441MHz

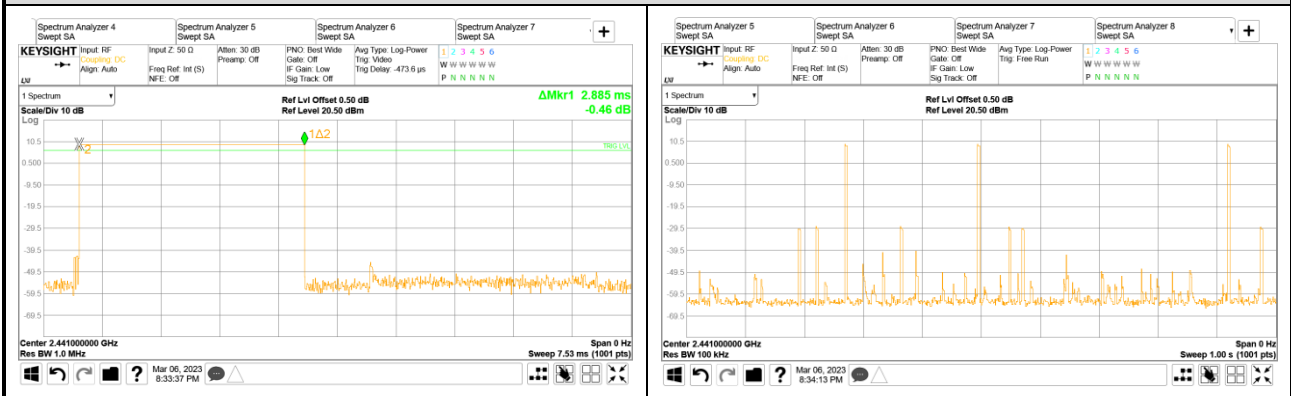
DH1



DH3



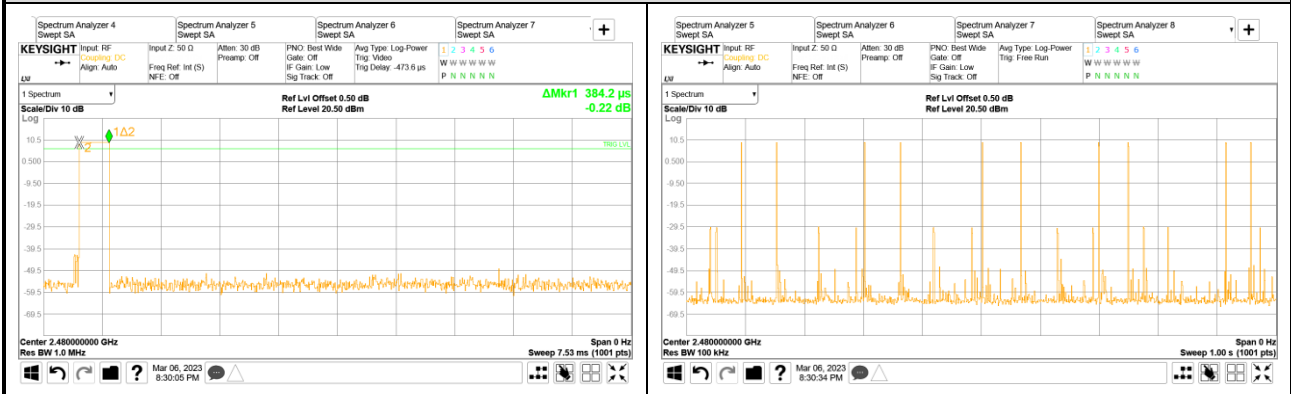
DH5



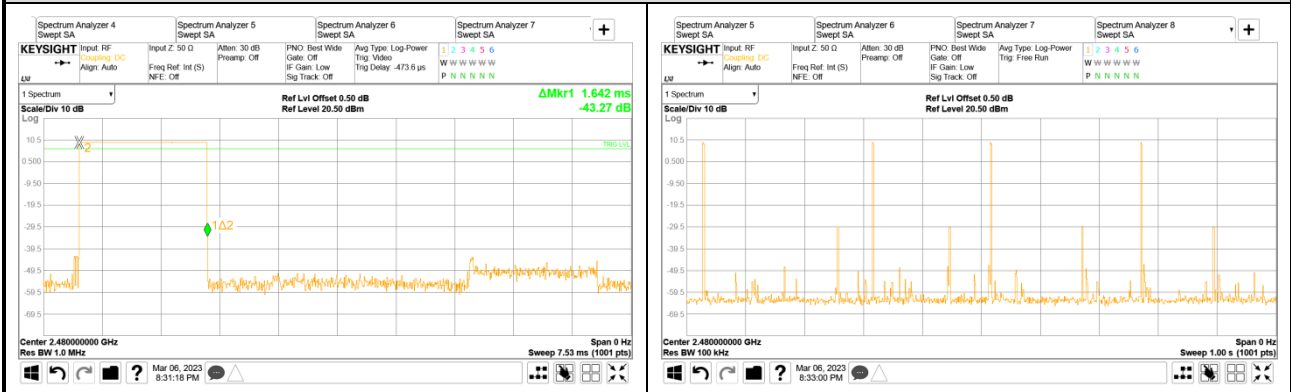
**GFSK**

**2480MHz**

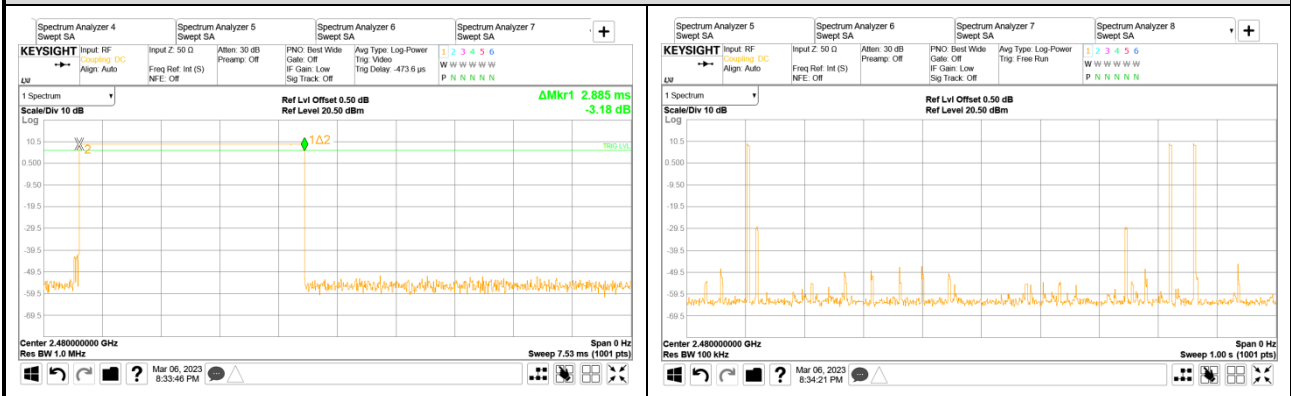
**DH1**



**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	0.3917	123.777	<400
		3DH3	5	1.642	259.436	<400
		3DH5	3	2.893	274.256	<400

Observation Period:

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

**3DH1 Mode**

For each second of **10** transmission appearance,the longest time of occupancy is  
**10** transmission\* **31.6** seconds\* **0.392** ms= **123.777** ms (<400ms)

**3DH3 Mode**

For each second of **5** transmission appearance,the longest time of occupancy is  
**5** transmission\* **31.6** seconds\* **1.642** ms= **259.436** ms (<400ms)

**3DH5 Mode**

For each second of **3** transmission appearance,the longest time of occupancy is  
**3** transmission\* **31.6** seconds\* **2.893** ms= **274.256** ms (<400ms)

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	0.3842	121.407	<400
		3DH3	5	1.642	259.436	<400
		3DH5	3	2.893	274.256	<400

Observation Period:

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

**3DH1 Mode**

For each second of **10** transmission appearance,the longest time of occupancy is  
**10** transmission\* **31.6** seconds\* **0.384** ms= **121.407** ms (<400ms)

**3DH3 Mode**

For each second of **5** transmission appearance,the longest time of occupancy is  
**5** transmission\* **31.6** seconds\* **1.642** ms= **259.436** ms (<400ms)

**3DH5 Mode**

For each second of **3** transmission appearance,the longest time of occupancy is  
**3** transmission\* **31.6** seconds\* **2.893** ms= **274.256** ms (<400ms)



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	0.3842	121.407	<400
		3DH3	5	1.642	259.436	<400
		3DH5	3	2.893	274.256	<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 \* **0.384** ms = **121.407** ms (<400ms)

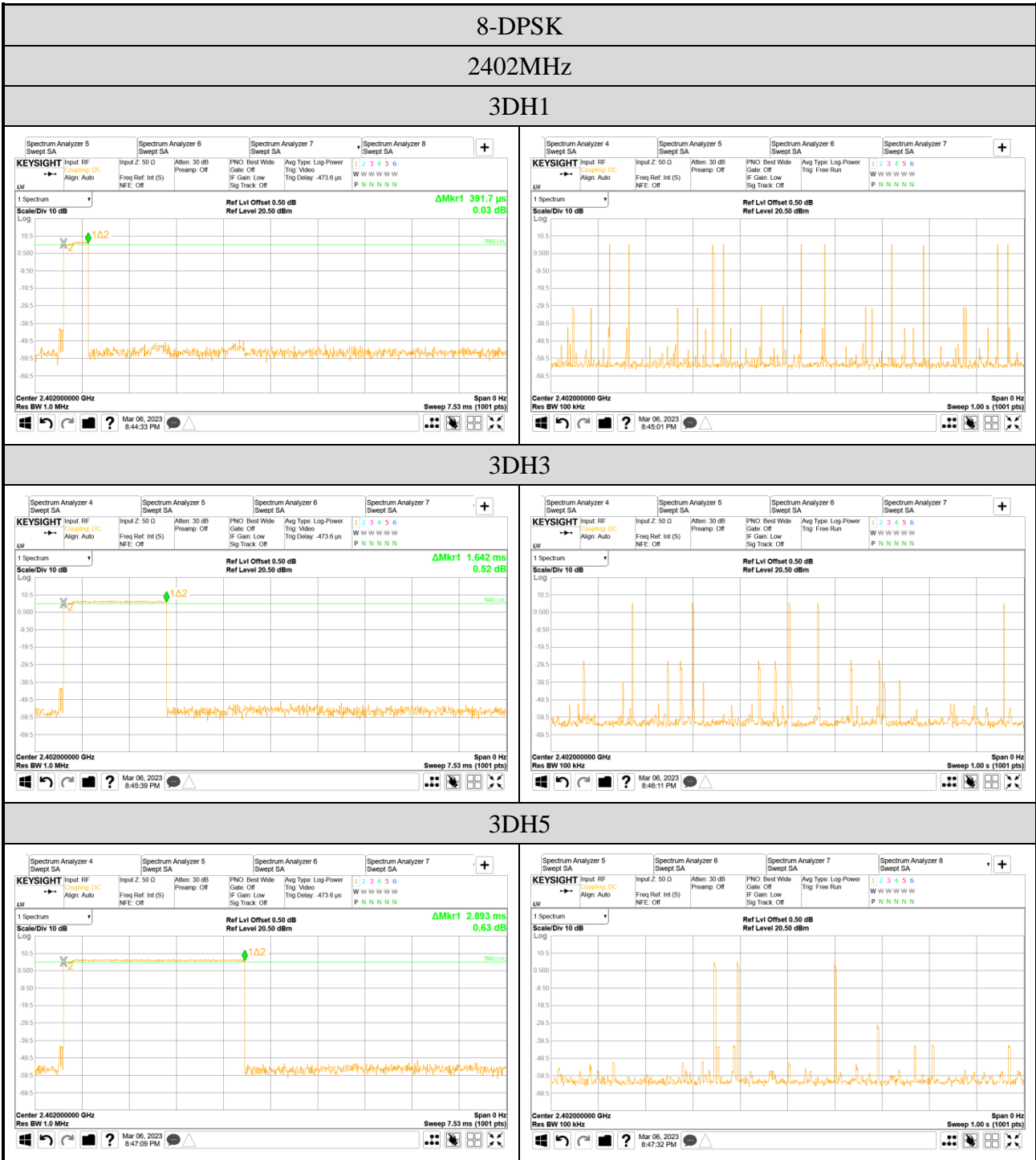
**3DH3 Mode**

For each second of **5** transmission appearance, the longest time of occupancy is  
**5** transmission \* **31.6** seconds \* **1.642** ms = **259.436** ms (<400ms)

**3DH5 Mode**

For each second of **3** transmission appearance, the longest time of occupancy is  
**3** transmission \* **31.6** seconds \* **2.893** ms = **274.256** ms (<400ms)

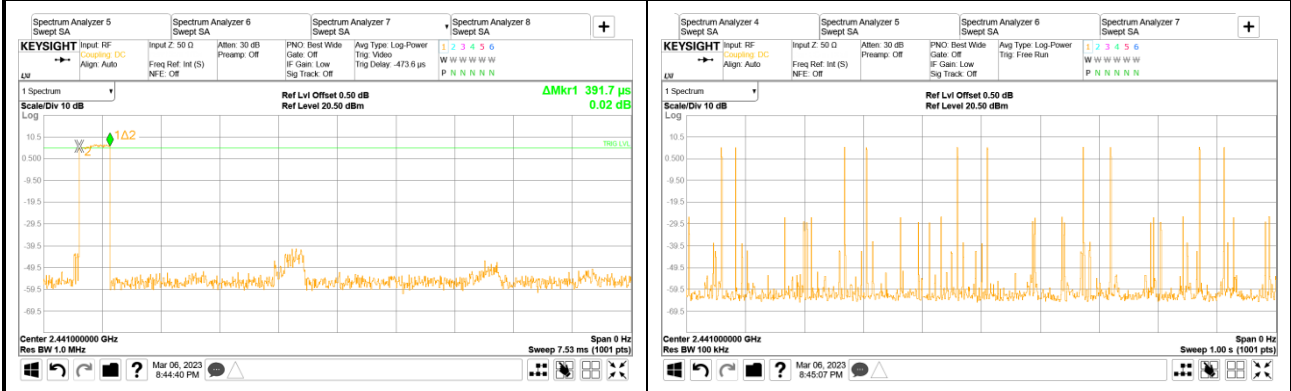
● Measurement Plots



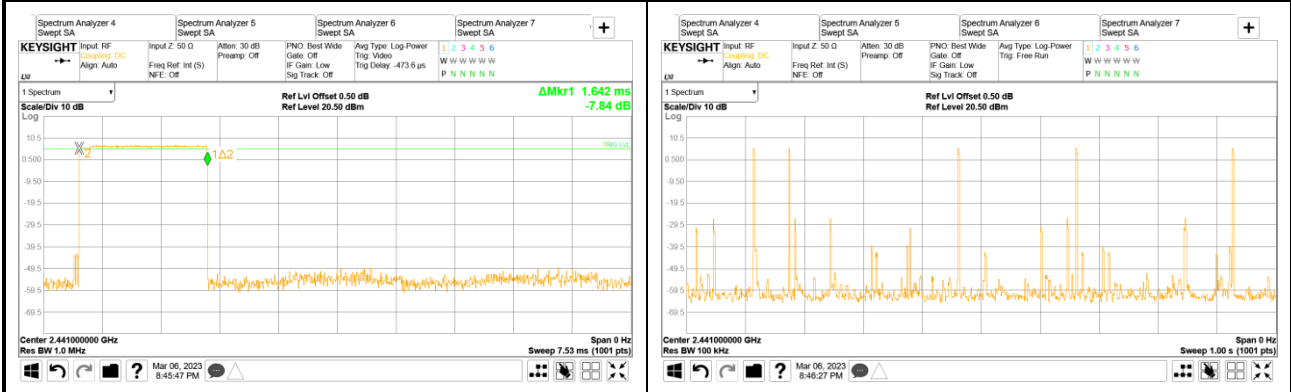
8-DPSK

2441MHz

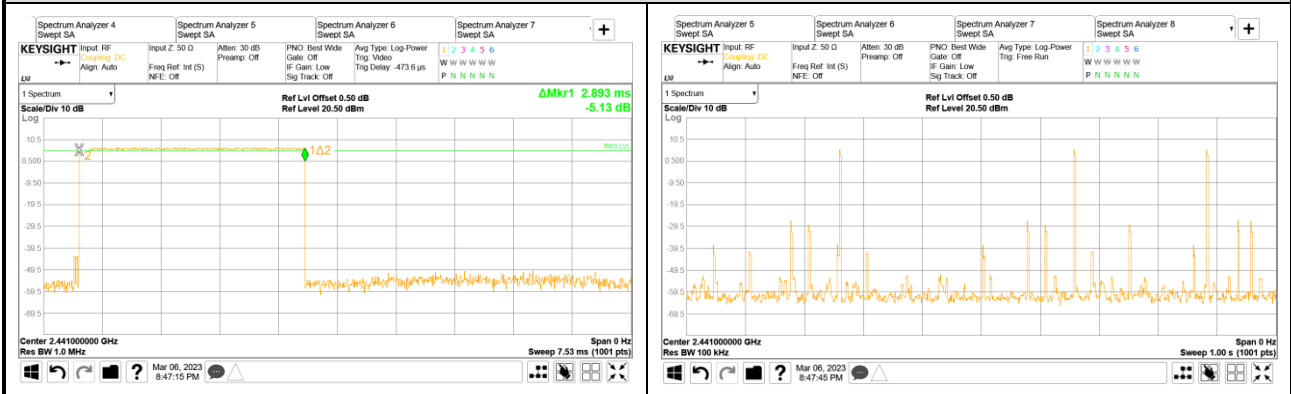
3DH1



3DH3



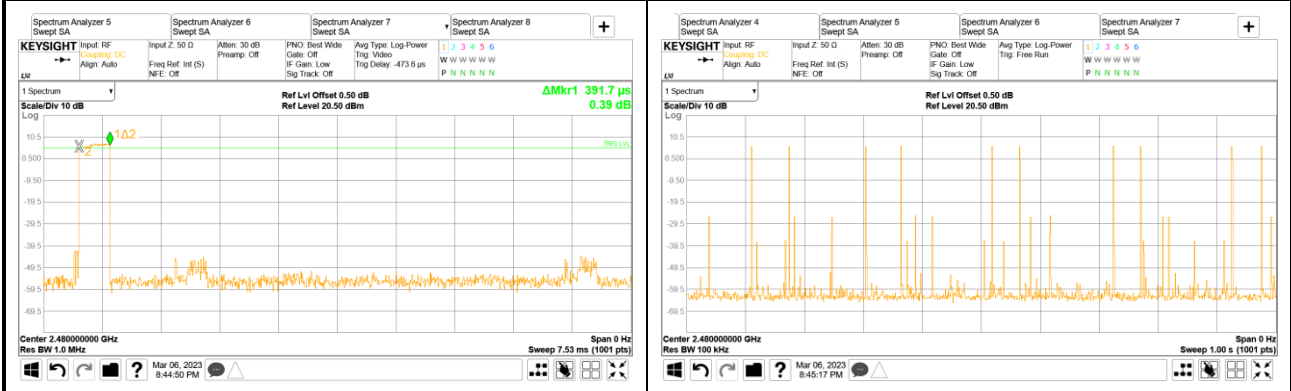
3DH5



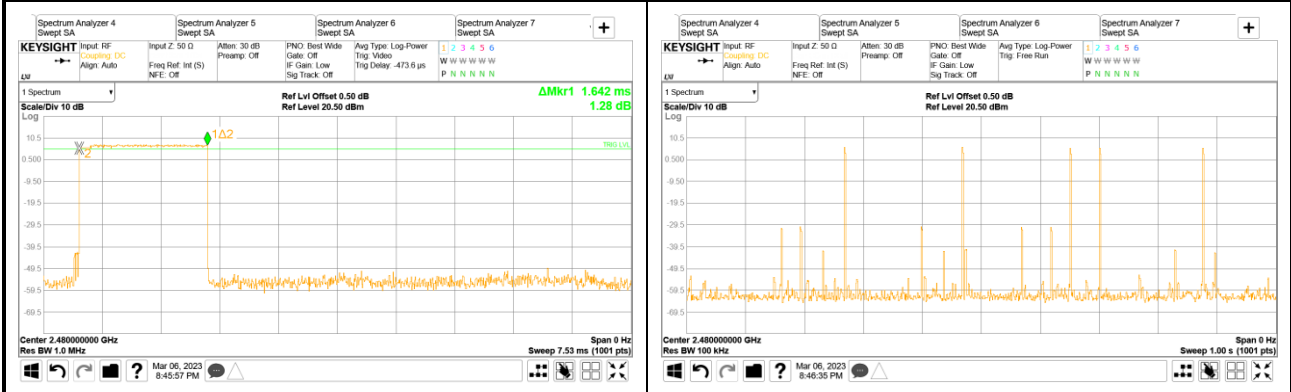
8-DPSK

2480MHz

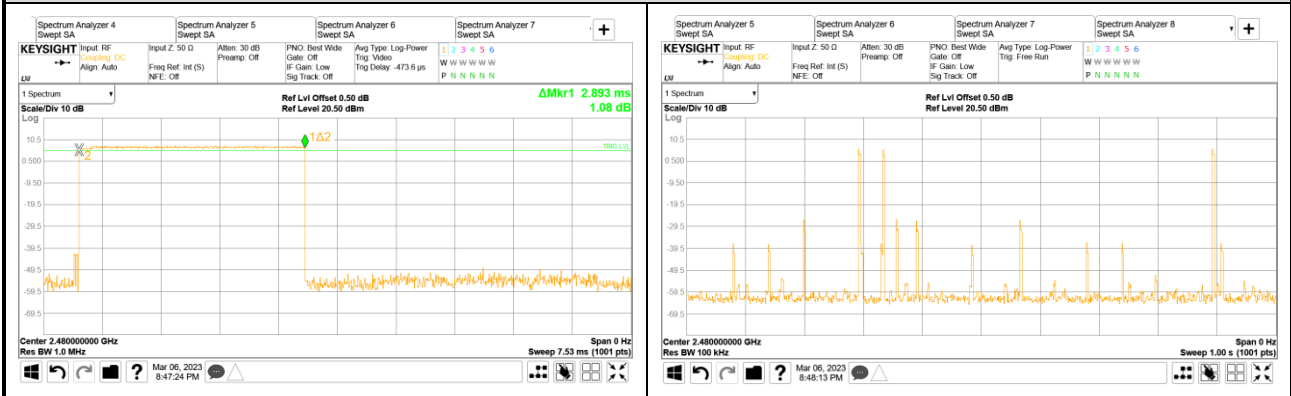
3DH1



3DH3



3DH5



## A.6 NUMBER OF HOPPING CHANNELS

Test Date	2023/03/06	Temp./Hum.	21°C/43%
Cable Loss	0.5dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

Mode: GFSK	Mode: 8-DPSK
The number hopping channel is 79.	The number hopping channel is 79.

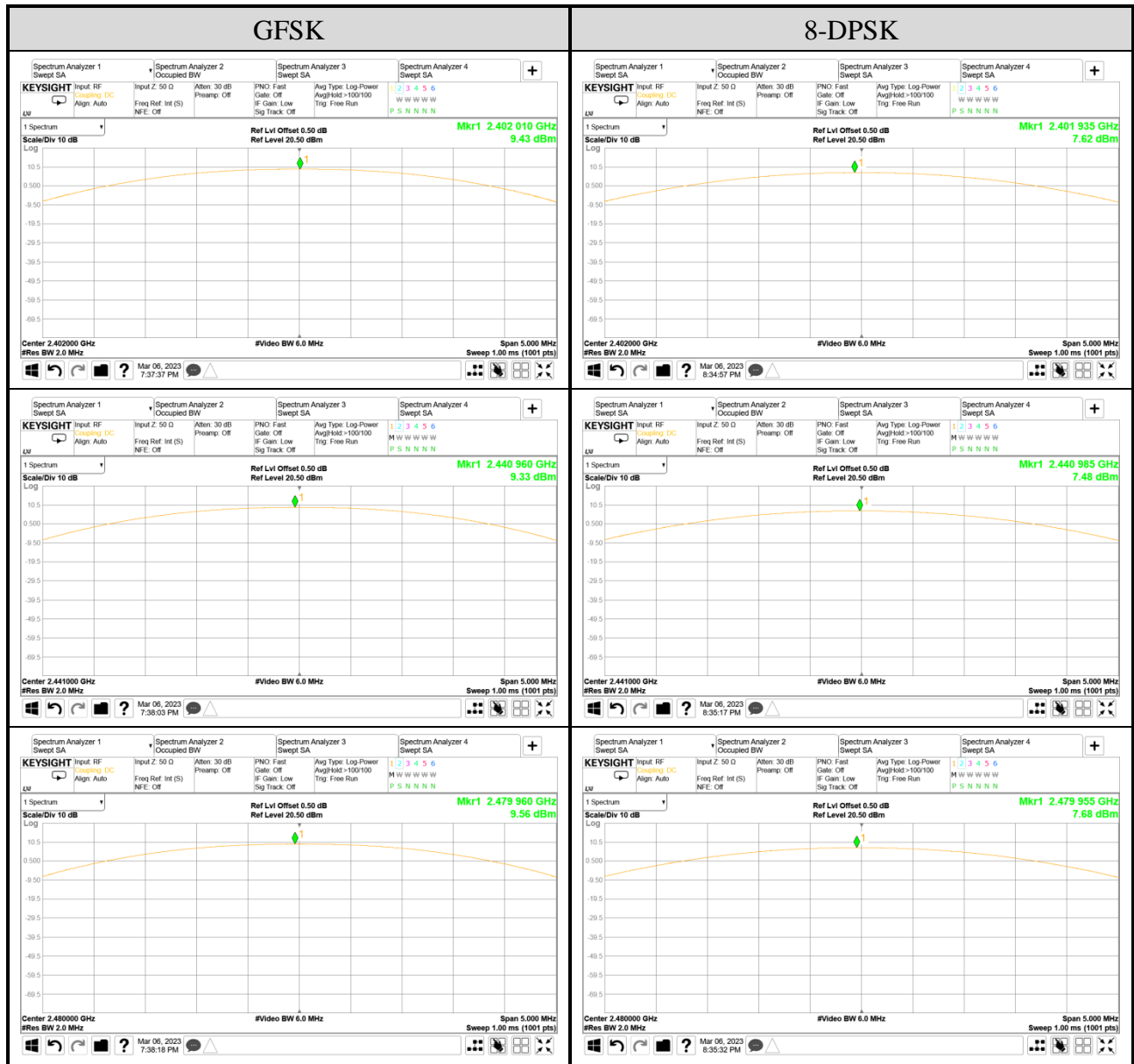
## A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2023/03/06	Temp./Hum.	21°C/43%
Cable Loss	0.5dB	Tested By	Sam Chang
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	9.43	0.009	21dBm (0.125W)
	2441	9.33	0.009	
	2480	9.56	0.009	
8-DPSK	2402	7.62	0.006	
	2441	7.48	0.006	
	2480	7.68	0.006	

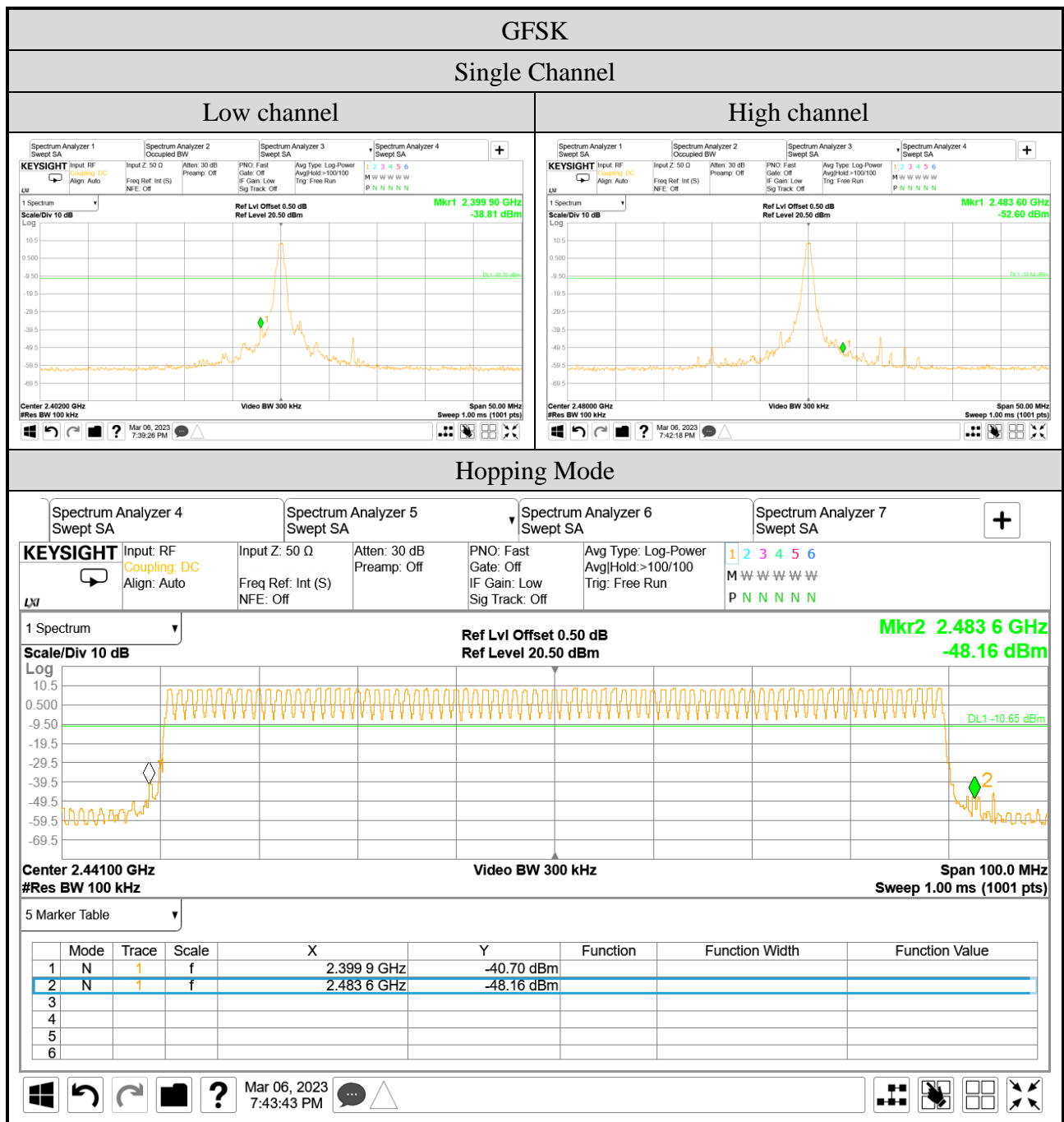
A.7.2 Measurement Plots



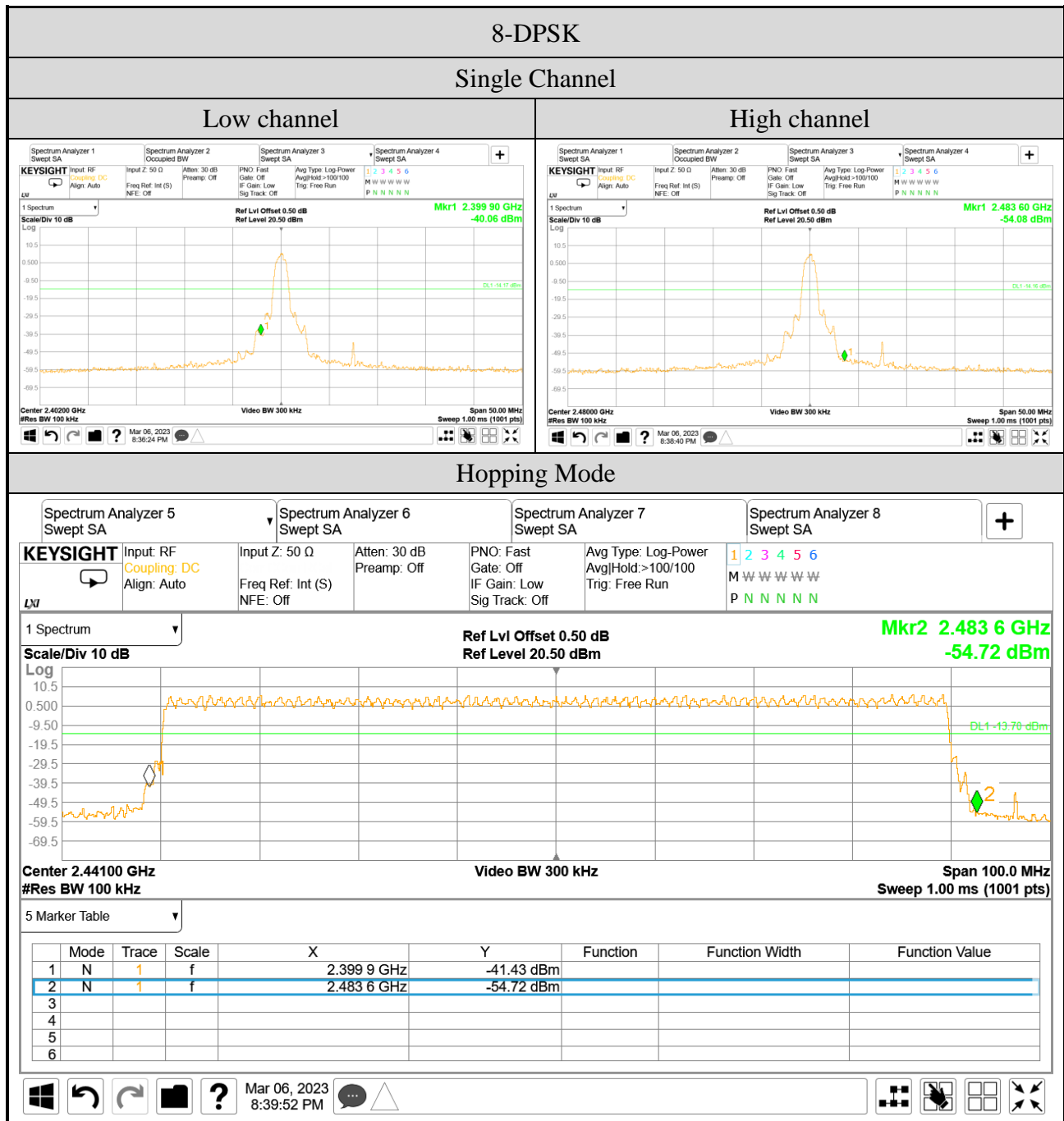
## A.8 EMISSION LIMITATIONS MEASUREMENT

Test Date	2023/03/06	Temp./Hum.	21°C/43%
Cable Loss	0.5dB	Tested By	Sam Chang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

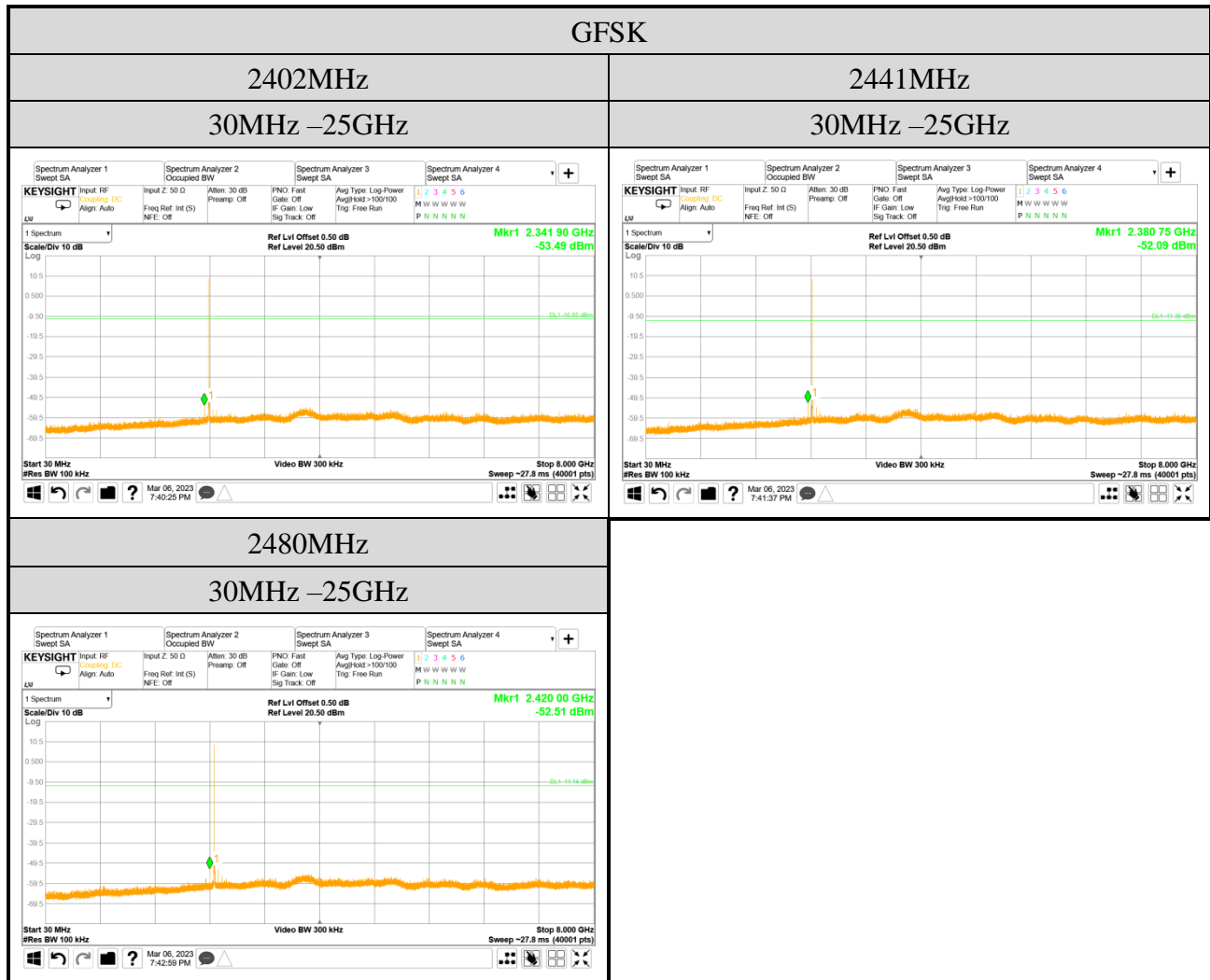
### A.8.1 Band Edge



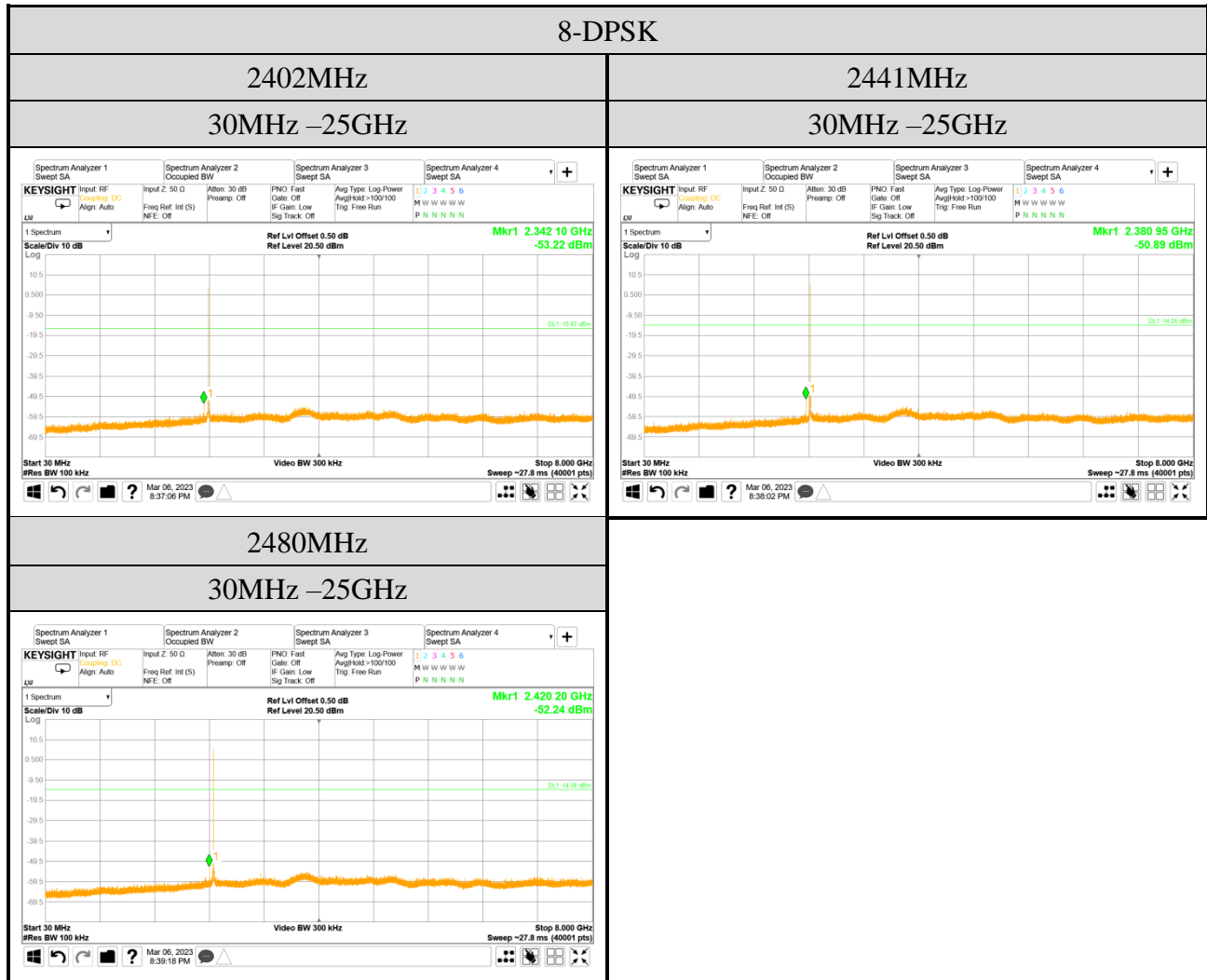




A.8.2 Spurious Emission



Note: All results have been included cable loss.



Note: All results have been included cable loss.