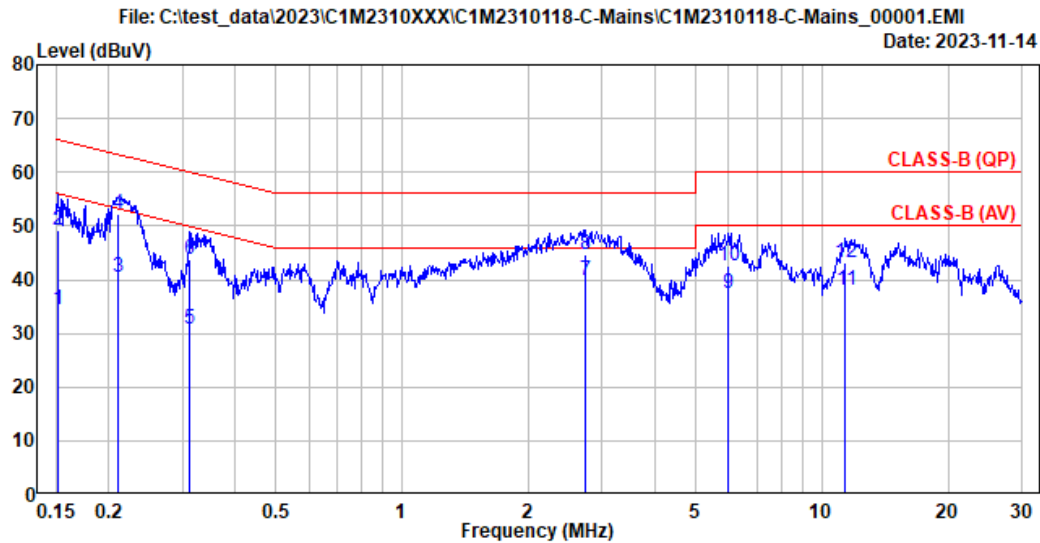


TABLE OF CONTENTS

A.1 CONDUCTED EMISSION	2
A.2 RADIATED EMISSION	6
A.2.1 Emissions within Restricted Frequency Bands.....	6
A.2.2 Emissions outside the frequency band:.....	30
A.2.3 Emissions in Non-restricted Frequency Bands:.....	32
A.3 20dB BANDWIDTH	33
A.3.1 20dB Bandwidth Result.....	33
A.3.2 Measurement Plots	34
A.4 CARRIER FREQUENCY SEPARATION	35
A.5 TIME OF OCCUPANCY	37
A.5.1 Time of Occupancy	37
A.6 NUMBER OF HOPPING CHANNELS	47
A.7 MAXIMUM PEAK OUTPUT POWER	48
A.7.1 Maximum Peak Output Power.....	48
A.8 EMISSION LIMITATIONS MEASUREMENT	49
A.8.1 Band Edge.....	49
A.8.2 Spurious Emission	51

A.1 CONDUCTED EMISSION

Test Date	2023/11/14	Temp./Hum.	26°C/57%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Bruce Tseng
Test SKU	SKU #1 (with INPOAQ ANT)		



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	: CLASS-B (QP)	Phase	: Neutral
Environment	: 26°C/57%	Test Rating	: 120Vac/60Hz
EUT Model	: 17Z90SP	Engineer	: Bruce
Test Mode	: Operating		

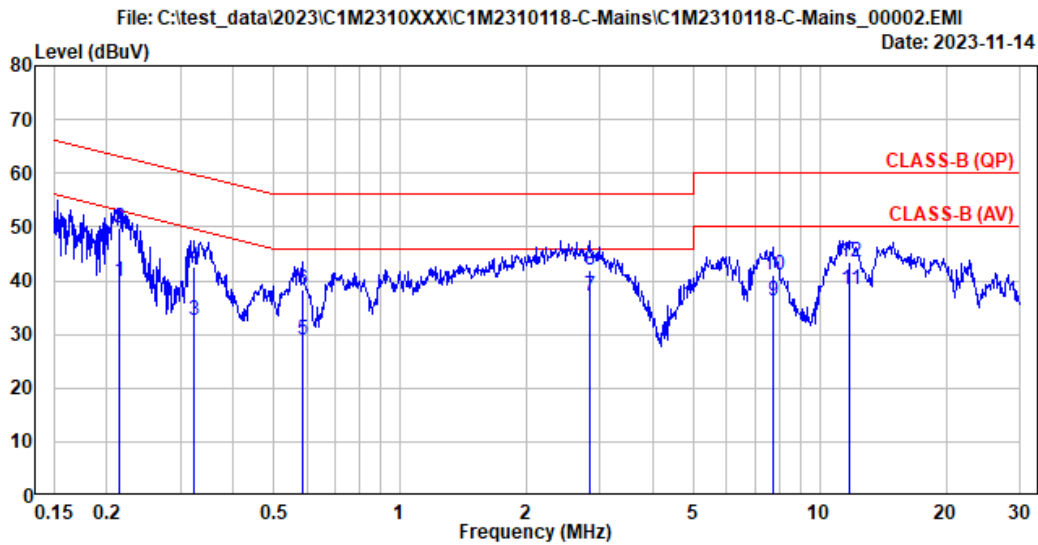
	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.152	10.30	0.03	9.85	14.37	34.55	55.92	21.37	Average
2	0.152	10.30	0.03	9.85	29.02	49.20	65.92	16.72	QP
3	0.211	10.29	0.03	9.85	20.19	40.36	53.18	12.82	Average
4	0.211	10.29	0.03	9.85	31.99	52.16	63.18	11.02	QP
5	0.312	10.28	0.03	9.85	10.58	30.74	49.91	19.17	Average
6	0.312	10.28	0.03	9.85	23.47	43.63	59.91	16.28	QP
7	2.742	10.34	0.07	9.86	19.58	39.85	46.00	6.15	Average
8	2.742	10.34	0.07	9.86	24.53	44.80	56.00	11.20	QP
9	5.997	10.45	0.10	9.87	17.01	37.43	50.00	12.57	Average
10	5.997	10.45	0.10	9.87	22.22	42.64	60.00	17.36	QP
11	11.407	10.65	0.15	9.90	17.32	38.02	50.00	11.98	Average
12	11.407	10.65	0.15	9.90	22.40	43.10	60.00	16.90	QP

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

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

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

Test Date	2023/11/14	Temp./Hum.	26°C/57%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Bruce Tseng
Test SKU	SKU #1 (with INPOAQ ANT)		

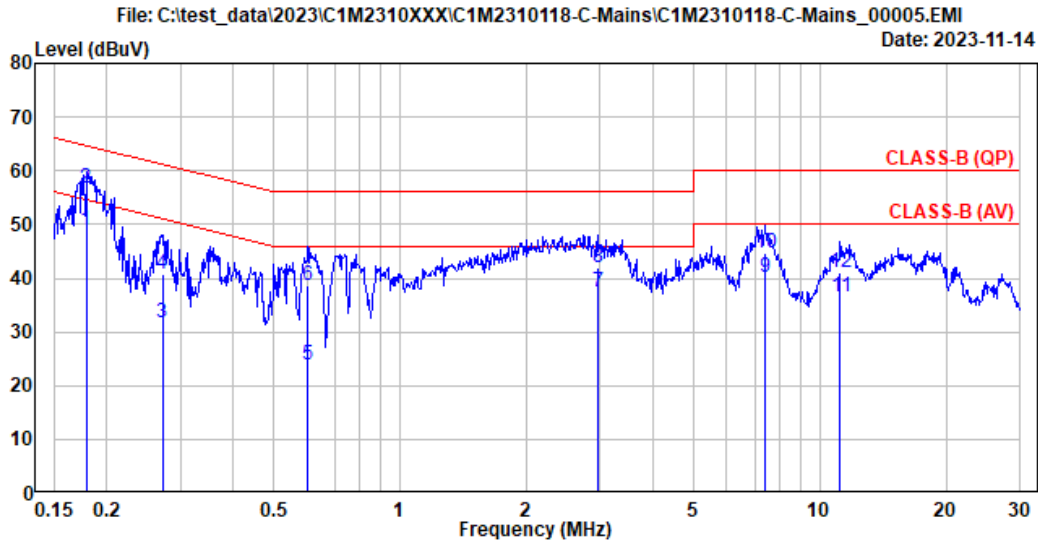


Site No.	: No.8 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Line
Environment	: 26°C/57%	Test Rating	: 120Vac/60Hz
EUT Model	: 17290SP	Engineer	: Bruce
Test Mode	: Operating		

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.215	10.28	0.03	9.85	19.73	39.89	53.02	13.13	Average
2	0.215	10.28	0.03	9.85	29.67	49.83	63.02	13.19	QP
3	0.323	10.27	0.03	9.85	12.59	32.74	49.62	16.88	Average
4	0.323	10.27	0.03	9.85	22.37	42.52	59.62	17.10	QP
5	0.585	10.27	0.03	9.85	8.73	28.88	46.00	17.12	Average
6	0.585	10.27	0.03	9.85	18.06	38.21	56.00	17.79	QP
7	2.825	10.31	0.07	9.86	16.74	36.98	46.00	9.02	Average
8	2.825	10.31	0.07	9.86	21.64	41.88	56.00	14.12	QP
9	7.771	10.42	0.12	9.88	15.74	36.16	50.00	13.84	Average
10	7.771	10.42	0.12	9.88	20.68	41.10	60.00	18.90	QP
11	11.812	10.52	0.15	9.90	17.69	38.26	50.00	11.74	Average
12	11.812	10.52	0.15	9.90	22.80	43.37	60.00	16.63	QP

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

Test Date	2023/11/14	Temp./Hum.	26°C/57%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Bruce Tseng
Test SKU	SKU #2 (with LUXSHARE-ICT ANT)		



Site No.	: No.8 Shielded Room	Data No.	: 5
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 26°C/57%	Test Rating	: 120Vac/60Hz
EUT Model	: 17Z90SP	Engineer	: Bruce
Test Mode	: Operating		

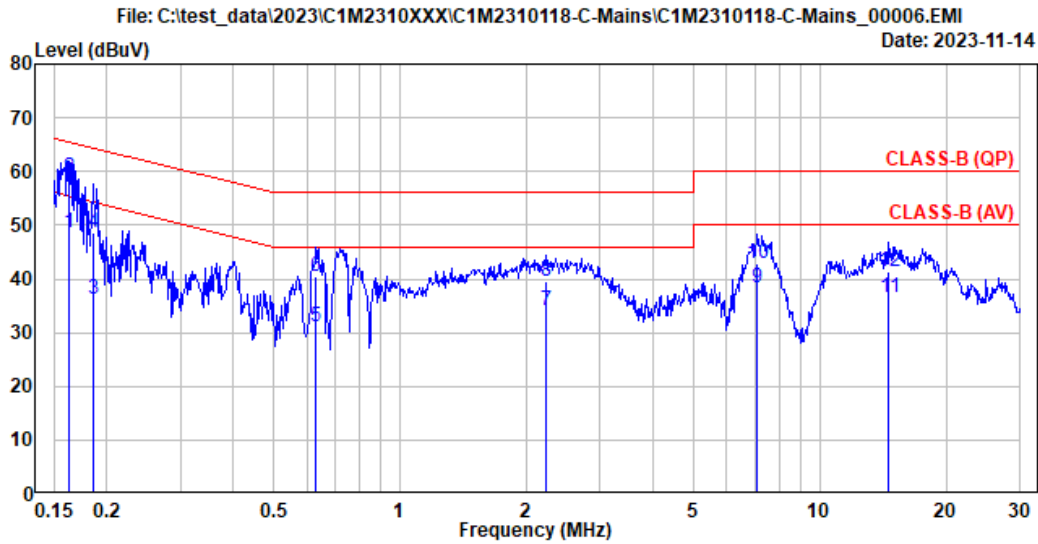
	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.179	10.29	0.03	9.85	28.73	48.90	54.55	5.65	Average
2	0.179	10.29	0.03	9.85	36.61	56.78	64.55	7.77	QP
3	0.271	10.29	0.03	9.85	11.46	31.63	51.07	19.44	Average
4	0.271	10.29	0.03	9.85	20.65	40.82	61.07	20.25	QP
5	0.603	10.28	0.03	9.85	3.68	23.84	46.00	22.16	Average
6	0.603	10.28	0.03	9.85	18.49	38.65	56.00	17.35	QP
7	2.955	10.34	0.07	9.86	17.15	37.42	46.00	8.58	Average
8	2.955	10.34	0.07	9.86	21.62	41.89	56.00	14.11	QP
9	7.430	10.50	0.11	9.87	19.72	40.20	50.00	9.80	Average
10	7.430	10.50	0.11	9.87	24.29	44.77	60.00	15.23	QP
11	11.182	10.64	0.15	9.90	15.69	36.38	50.00	13.62	Average
12	11.182	10.64	0.15	9.90	20.48	41.17	60.00	18.83	QP

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

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

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

Test Date	2023/11/14	Temp./Hum.	26°C/57%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Bruce Tseng
Test SKU	SKU #2 (with LUXSHARE-ICT ANT)		



Site No.	: No.8 Shielded Room	Data No.	: 6
Instrument 1	: Receiver ESR(774)		
Instrument 2	: ENV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B (QP)	Phase	: Line
Environment	: 26°C/57%	Test Rating	: 120Vac/60Hz
EUT Model	: 17290SP	Engineer	: Bruce
Test Mode	: Operating		

	Freq. (MHz)	ISN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.163	10.29	0.03	9.85	28.57	48.74	55.30	6.56	Average
2	0.163	10.29	0.03	9.85	38.56	58.73	65.30	6.57	QP
3	0.186	10.29	0.03	9.85	15.92	36.09	54.22	18.13	Average
4	0.186	10.29	0.03	9.85	28.40	48.57	64.22	15.65	QP
5	0.630	10.27	0.03	9.85	11.02	31.17	46.00	14.83	Average
6	0.630	10.27	0.03	9.85	20.23	40.38	56.00	15.62	QP
7	2.224	10.30	0.06	9.86	13.85	34.07	46.00	11.93	Average
8	2.224	10.30	0.06	9.86	19.39	39.61	56.00	16.39	QP
9	7.069	10.41	0.11	9.87	17.82	38.21	50.00	11.79	Average
10	7.069	10.41	0.11	9.87	22.58	42.97	60.00	17.03	QP
11	14.636	10.60	0.17	9.91	15.78	36.46	50.00	13.54	Average
12	14.636	10.60	0.17	9.91	20.65	41.33	60.00	18.67	QP

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

A.2 RADIATED EMISSION

Test Date	2023/10/17 ~ 11/14	Temp./Hum.	24 ~ 26°C/53 ~ 56%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Martin Chen

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: SKU #1 (With INPAQ 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
30.808	23.65	1.22	26.52	31.18	29.53	40.00	10.47	Peak
163.375	15.88	3.01	25.96	42.73	35.67	43.50	7.83	Peak
218.342	16.38	3.58	25.78	43.85	38.05	46.00	7.95	Peak
612.808	24.38	6.83	27.41	32.98	36.79	46.00	9.21	Peak
954.733	26.64	9.03	26.88	32.72	41.50	46.00	4.50	Peak
1000.000	26.95	9.27	26.76	32.14	41.60	54.00	12.40	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
30.000	23.95	1.20	26.52	34.33	32.96	40.00	7.04	Peak
80.117	13.03	2.04	26.37	45.22	33.93	40.00	6.07	Peak
162.567	15.91	3.01	25.96	39.56	32.52	43.50	10.98	Peak
470.542	22.71	6.16	26.98	33.60	35.48	46.00	10.52	Peak
907.850	26.29	8.77	27.02	33.74	41.78	46.00	4.22	Peak
968.475	26.72	9.10	26.85	32.89	41.87	54.00	12.13	Peak

Test SKU: SKU #1 (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 (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
30.000	23.95	1.20	26.52	31.05	29.68	40.00	10.32	Peak
122.150	17.80	2.56	26.17	36.06	30.25	43.50	13.25	Peak
224.808	16.77	3.65	25.77	34.59	29.24	46.00	16.76	Peak
540.058	23.63	6.55	27.27	33.53	36.45	46.00	9.55	Peak
871.475	25.89	8.51	27.11	32.77	40.07	46.00	5.93	Peak
964.433	26.70	9.08	26.86	33.35	42.28	54.00	11.72	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
30.000	23.95	1.20	26.52	36.96	35.59	40.00	4.41	Peak
131.850	17.44	2.67	26.11	41.96	35.96	43.50	7.54	Peak
430.125	22.06	5.80	26.72	34.45	35.60	46.00	10.40	Peak
540.058	23.63	6.55	27.27	32.76	35.67	46.00	10.33	Peak
945.842	26.57	8.98	26.91	32.32	40.97	46.00	5.03	Peak
973.325	26.76	9.13	26.83	32.96	42.02	54.00	11.98	Peak

Spot Check with SKU #2 (with INAPQ ANT)

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 (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
32.425	23.06	1.25	26.52	30.79	28.58	40.00	11.42	Peak
160.142	16.00	2.98	25.97	42.05	35.07	43.50	8.43	Peak
215.917	16.26	3.56	25.78	43.31	37.35	43.50	6.15	Peak
502.875	23.16	6.41	27.17	32.58	34.99	46.00	11.01	Peak
808.425	25.11	8.02	27.26	32.34	38.21	46.00	7.79	Peak
994.342	26.92	9.24	26.78	32.11	41.50	54.00	12.50	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
78.500	12.89	2.02	26.37	45.01	33.54	40.00	6.46	Peak
164.183	15.86	3.02	25.95	38.44	31.37	43.50	12.13	Peak
274.117	18.51	4.12	25.69	31.44	28.37	46.00	17.63	Peak
539.250	23.62	6.55	27.26	32.16	35.07	46.00	10.93	Peak
898.150	26.20	8.71	27.04	32.64	40.51	46.00	5.49	Peak
983.833	26.84	9.18	26.80	32.18	41.40	54.00	12.60	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 (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
33.233	22.77	1.27	26.52	30.11	27.62	40.00	12.38	Peak
118.917	17.83	2.52	26.19	34.37	28.53	43.50	14.97	Peak
160.950	15.97	2.99	25.97	42.14	35.13	43.50	8.37	Peak
219.150	16.43	3.59	25.78	41.74	35.98	46.00	10.02	Peak
633.825	24.46	6.95	27.41	31.72	35.72	46.00	10.28	Peak
980.600	26.81	9.17	26.81	30.69	39.86	54.00	14.14	Peak

Antenna at Vertical Polarization

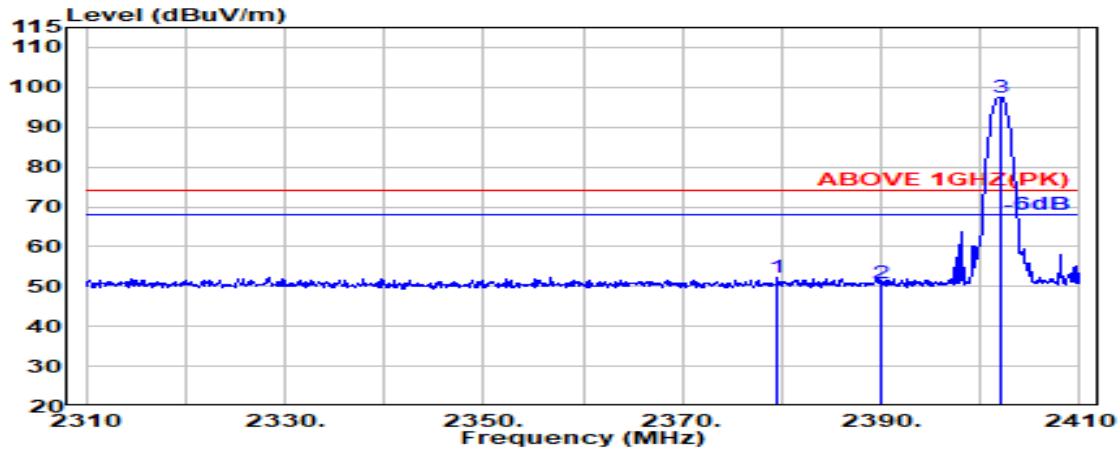
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
32.425	23.06	1.25	26.52	32.31	30.11	40.00	9.89	Peak
78.500	12.89	2.02	26.37	40.68	29.21	40.00	10.79	Peak
164.992	15.83	3.03	25.95	38.24	31.15	43.50	12.35	Peak
225.617	16.81	3.65	25.77	33.17	27.87	46.00	18.13	Peak
833.483	25.44	8.22	27.20	30.97	37.43	46.00	8.57	Peak
982.217	26.83	9.18	26.81	31.26	40.46	54.00	13.54	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

Band Edge:

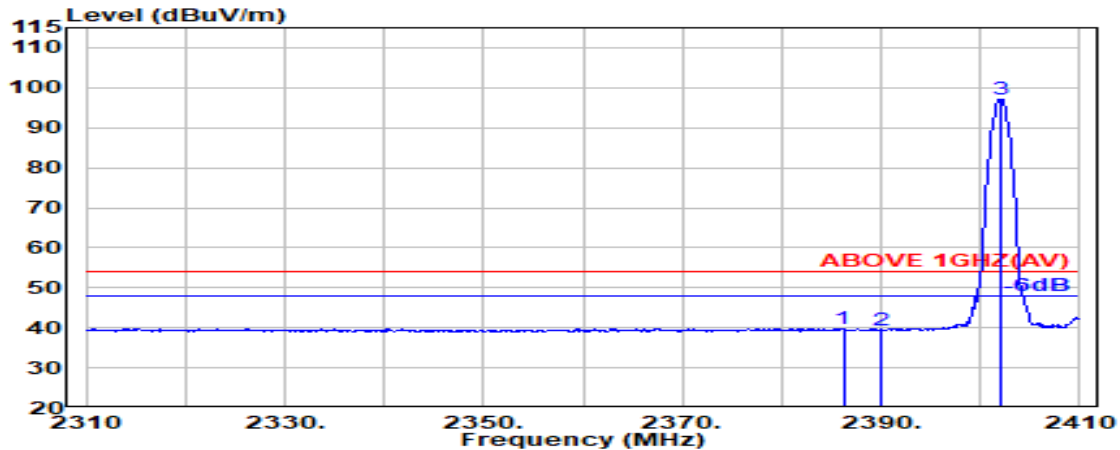
Test SKU: SKU #1 (With INPAQ ANT)

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
2379.600	28.20	6.02	39.93	58.07	52.36	74.00	21.64	Peak
2390.000	28.20	6.03	39.93	56.63	50.94	74.00	23.06	Peak
@ 2402.100	28.21	6.05	39.93	103.03	97.36	---	---	Peak

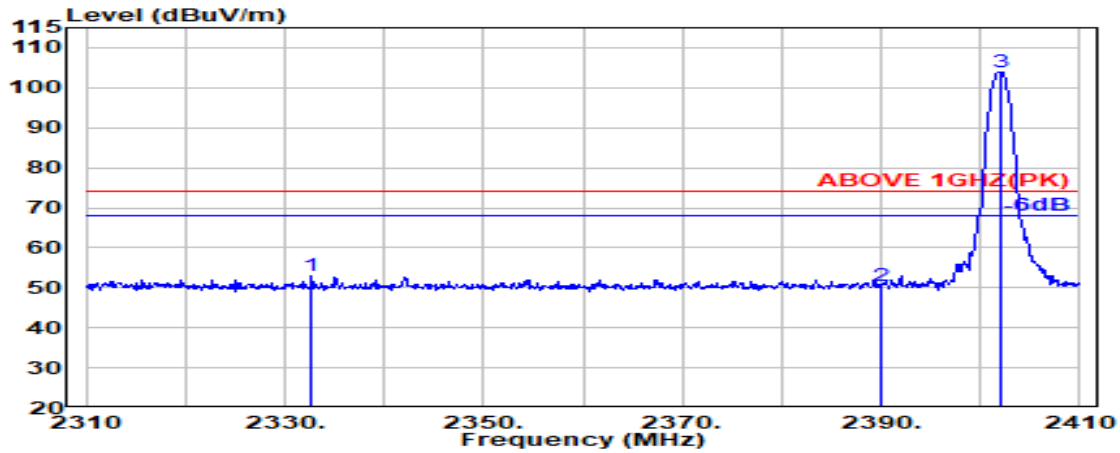


Antenna at Horizontal Polarization

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
2386.200	28.20	6.03	39.93	45.52	39.82	54.00	14.18	Average
2390.000	28.20	6.03	39.93	45.10	39.41	54.00	14.59	Average
@ 2402.000	28.21	6.05	39.93	102.88	97.21	---	---	Average

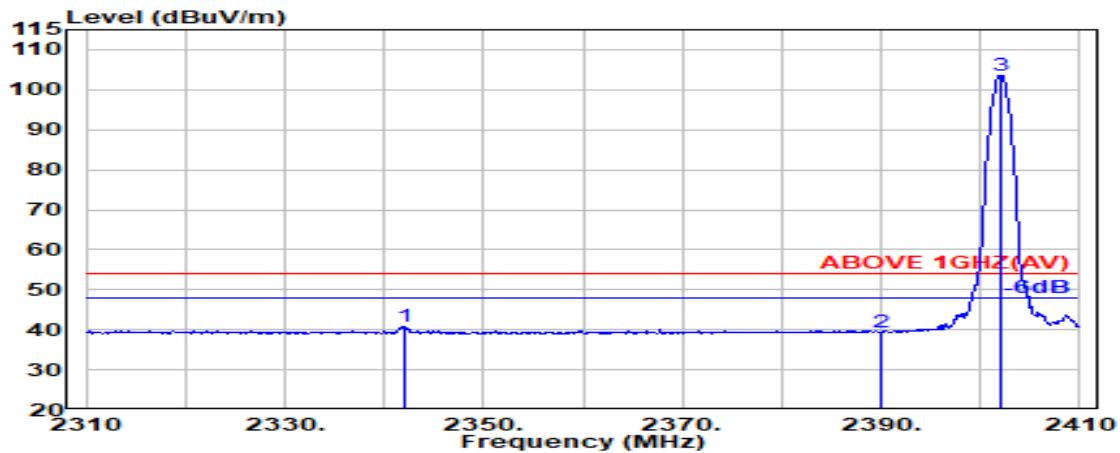
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2332.700	28.03	5.95	39.93	58.81	52.86	74.00	21.14	Peak
2390.000	28.20	6.03	39.93	56.09	50.40	74.00	23.60	Peak
@ 2402.100	28.21	6.05	39.93	109.48	103.81	---	---	Peak

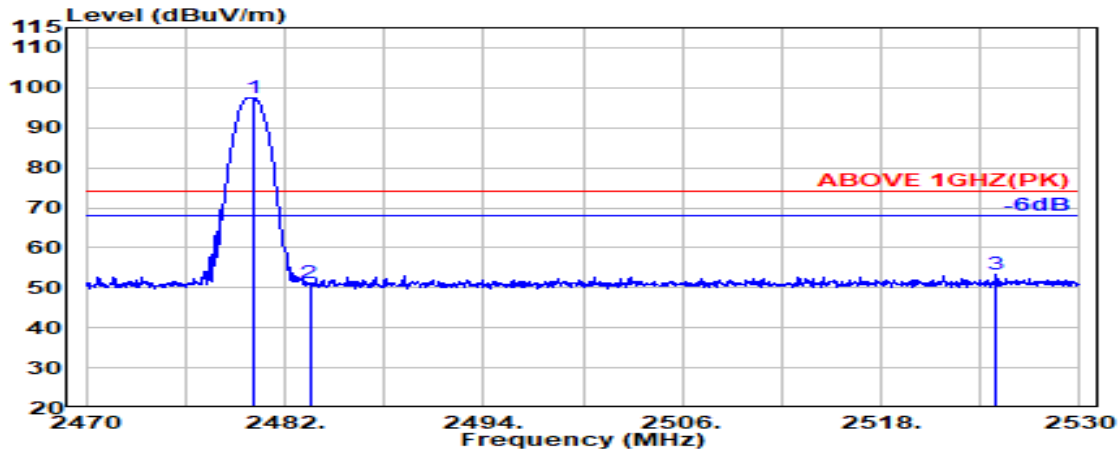


Antenna at Vertical Polarization

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
2342.100	28.12	5.96	39.93	46.72	40.88	54.00	13.12	Average
2390.000	28.20	6.03	39.93	45.23	39.54	54.00	14.46	Average
@ 2402.000	28.21	6.05	39.93	109.32	103.66	---	---	Average

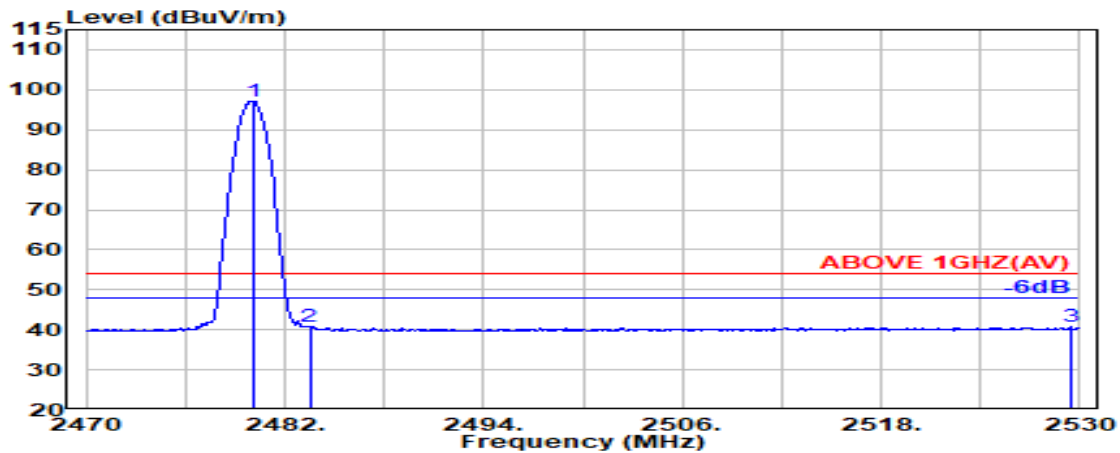
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.100	28.46	6.16	39.92	102.69	97.39	---	---	Peak
2483.500	28.47	6.17	39.92	56.38	51.09	74.00	22.91	Peak
2524.950	28.55	6.22	39.92	58.42	53.27	74.00	20.73	Peak

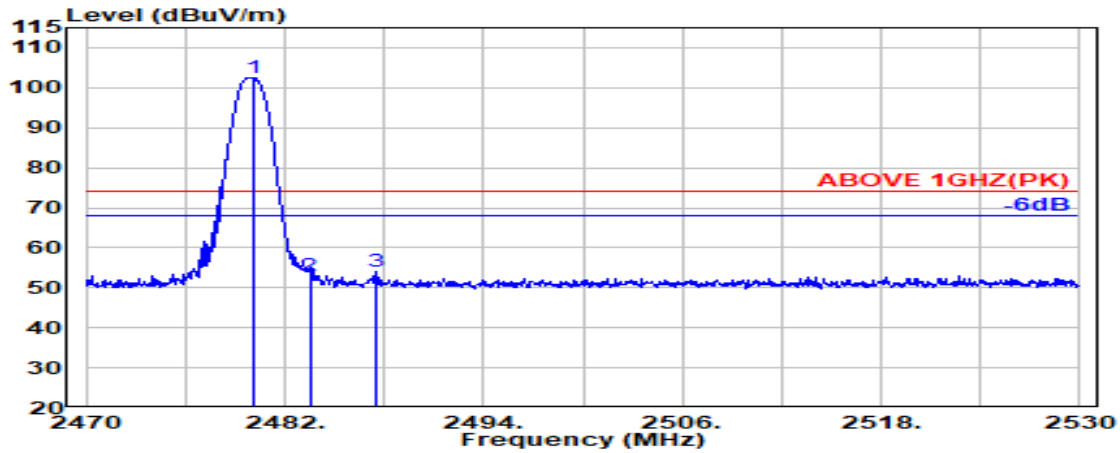


Antenna at Horizontal Polarization

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	28.46	6.16	39.92	102.52	97.22	---	---	Average
2483.500	28.47	6.17	39.92	45.91	40.62	54.00	13.38	Average
2529.400	28.56	6.22	39.92	45.93	40.79	54.00	13.21	Average

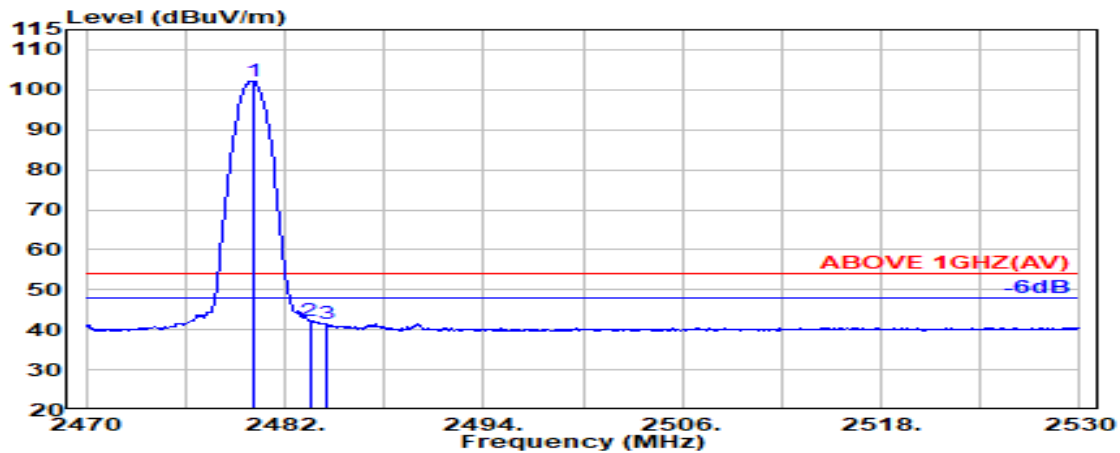
Remark: The "@" means fundamental frequency, it is ignored in this section.

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	28.46	6.16	39.92	107.71	102.42	---	---	Peak
2483.500	28.47	6.17	39.92	58.14	52.86	74.00	21.14	Peak
2487.550	28.48	6.17	39.92	59.44	54.17	74.00	19.83	Peak

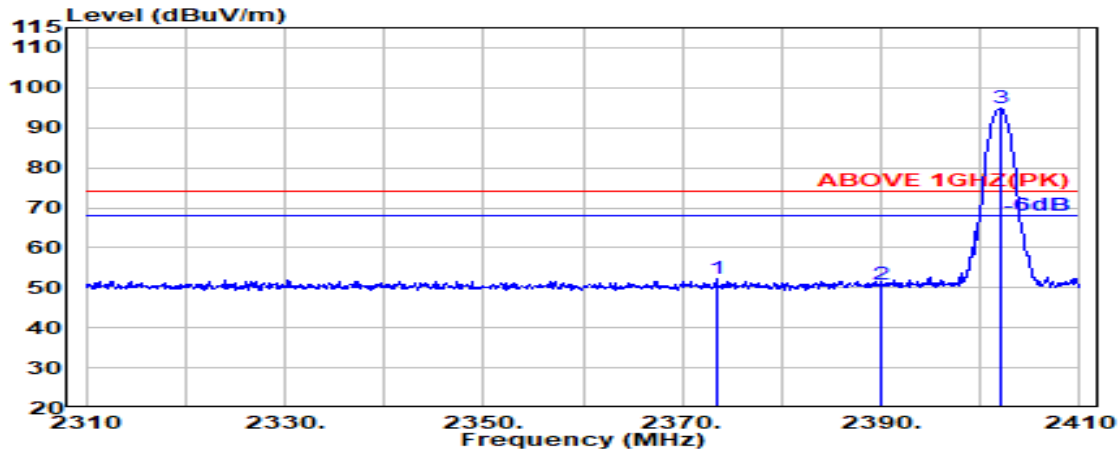


Antenna at Vertical Polarization

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
@ 2480.050	28.46	6.16	39.92	107.55	102.25	---	---	Average
2483.500	28.47	6.17	39.92	47.49	42.20	54.00	11.80	Average
2484.500	28.47	6.17	39.92	46.87	41.59	54.00	12.41	Average

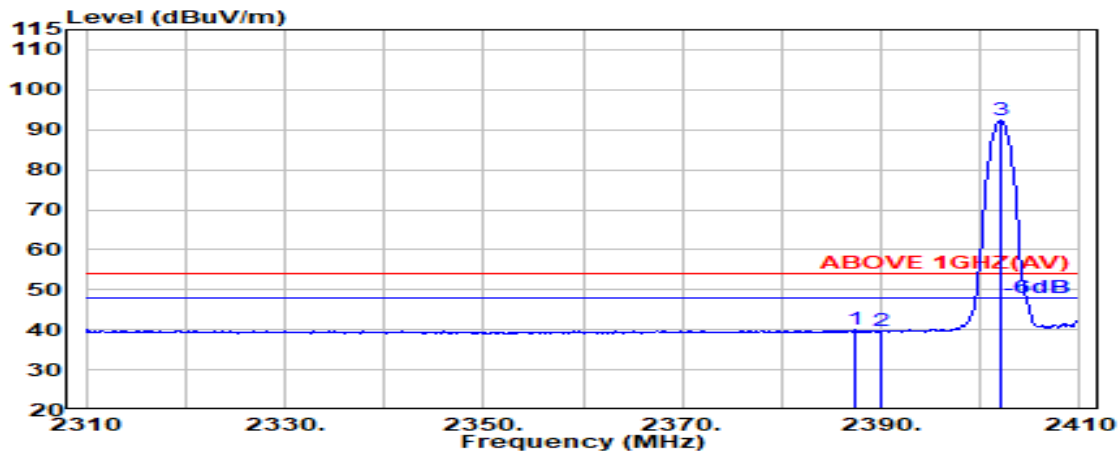
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2373.400	28.20	6.01	39.93	57.87	52.15	74.00	21.85	Peak
2390.000	28.20	6.03	39.93	56.67	50.98	74.00	23.02	Peak
@ 2402.000	28.21	6.05	39.93	100.50	94.83	---	---	Peak

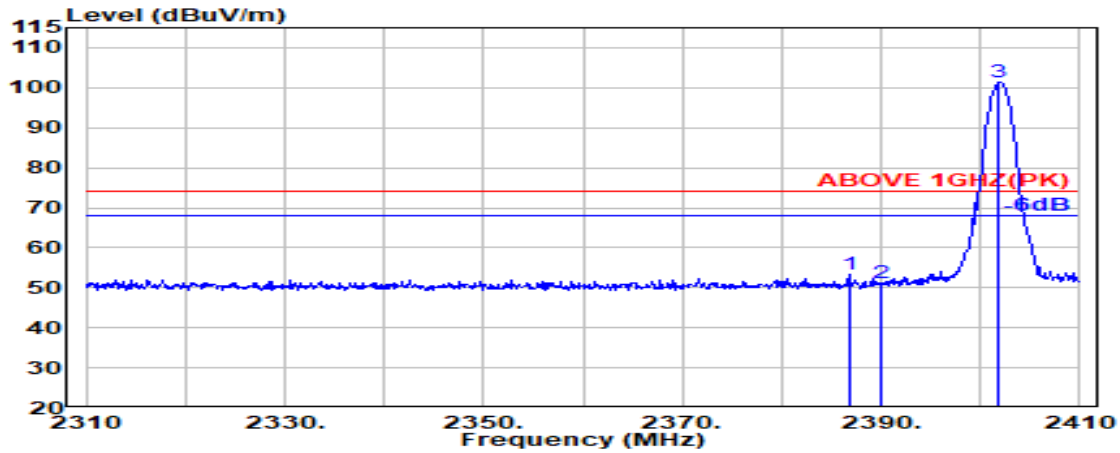


Antenna at Horizontal Polarization

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
2387.400	28.20	6.03	39.93	45.63	39.93	54.00	14.07	Average
2390.000	28.20	6.03	39.93	45.37	39.68	54.00	14.32	Average
@ 2402.100	28.21	6.05	39.93	97.90	92.24	---	---	Average

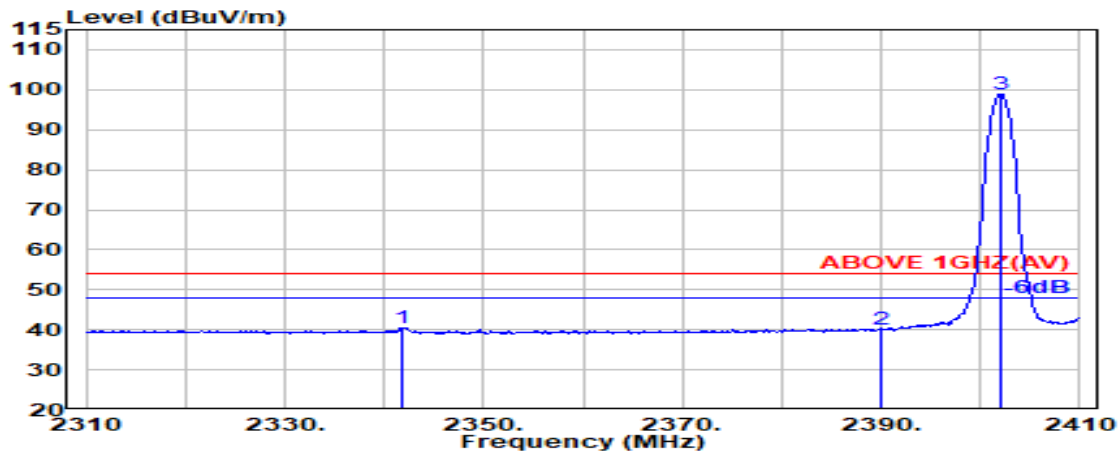
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2386.800	28.20	6.03	39.93	59.13	53.43	74.00	20.57	Peak
2390.000	28.20	6.03	39.93	56.94	51.24	74.00	22.76	Peak
@ 2401.900	28.21	6.05	39.93	107.11	101.44	---	---	Peak

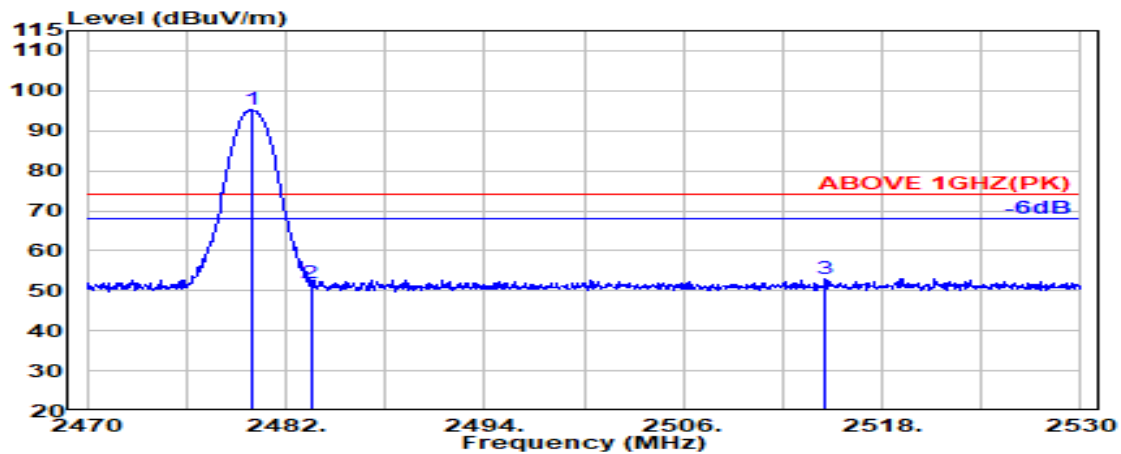


Antenna at Vertical Polarization

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	28.12	5.96	39.93	46.40	40.55	54.00	13.45	Average
2390.000	28.20	6.03	39.93	45.65	39.95	54.00	14.05	Average
@ 2402.100	28.21	6.05	39.93	104.60	98.93	---	---	Average

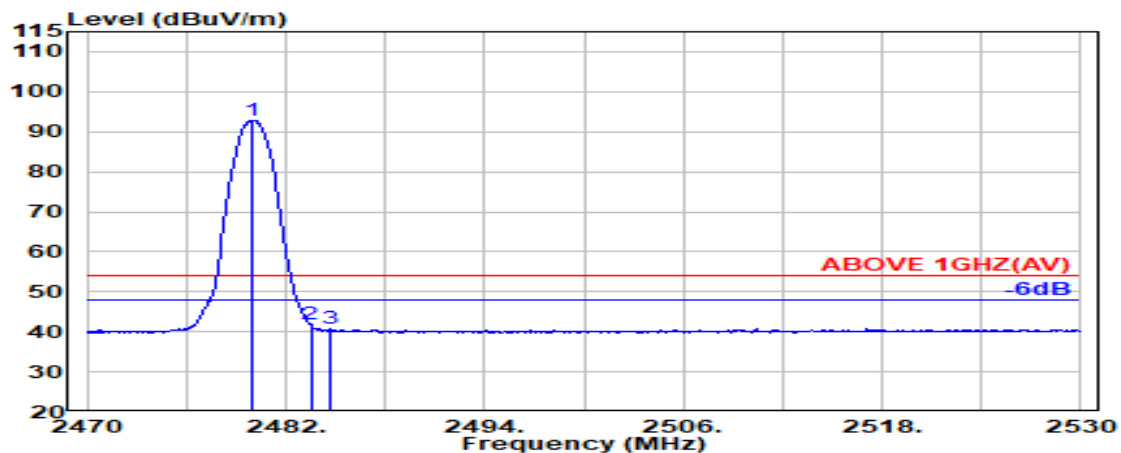
Remark: The “@” means fundamental frequency, it is ignored in this section.

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	6.16	39.92	100.62	95.33	---	---	Peak
2483.500	28.47	6.17	39.92	57.08	51.79	74.00	22.21	Peak
2514.600	28.53	6.21	39.92	58.04	52.85	74.00	21.15	Peak

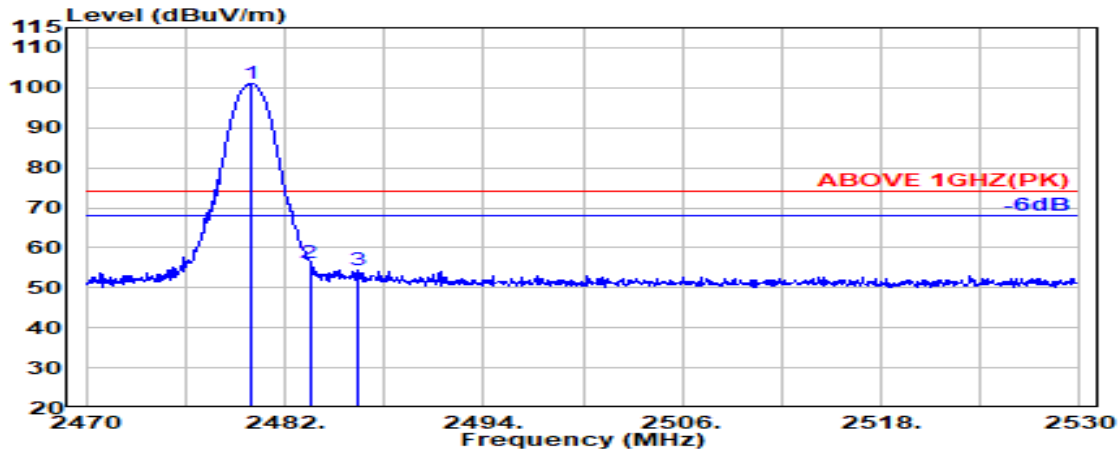


Antenna at Horizontal Polarization

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	6.16	39.92	98.24	92.94	---	---	Average
2483.500	28.47	6.17	39.92	47.01	41.72	54.00	12.28	Average
2484.750	28.47	6.17	39.92	46.10	40.82	54.00	13.18	Average

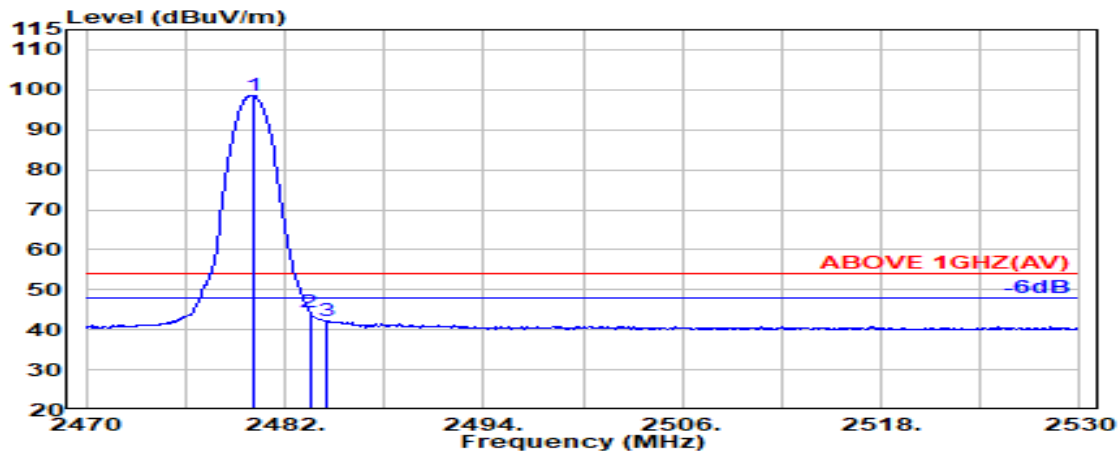
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2479.950	28.46	6.16	39.92	106.25	100.95	---	---	Peak
2483.500	28.47	6.17	39.92	61.64	56.35	74.00	17.65	Peak
2486.450	28.47	6.17	39.92	59.62	54.34	74.00	19.66	Peak



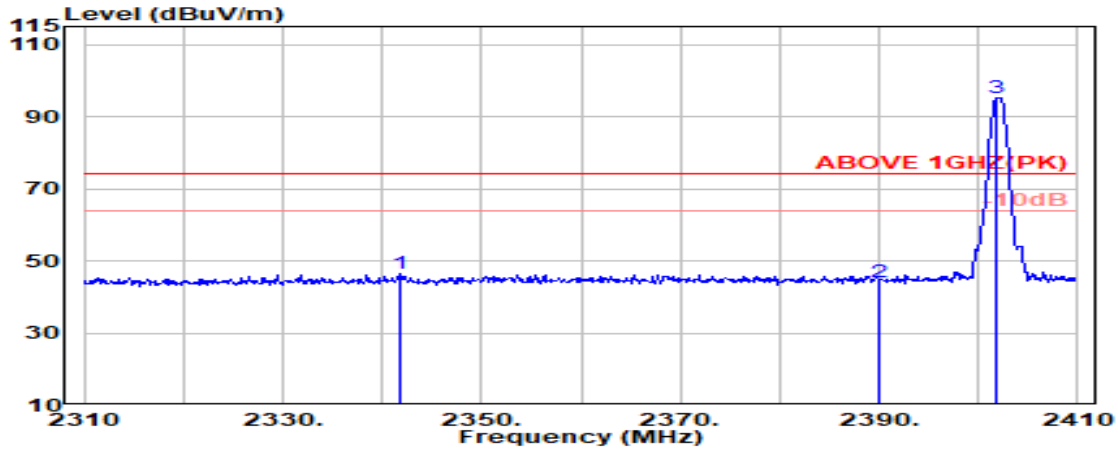
Antenna at Vertical Polarization

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	28.46	6.16	39.92	103.89	98.59	---	---	Average
2483.500	28.47	6.17	39.92	49.51	44.22	54.00	9.78	Average
2484.500	28.47	6.17	39.92	47.55	42.27	54.00	11.73	Average

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

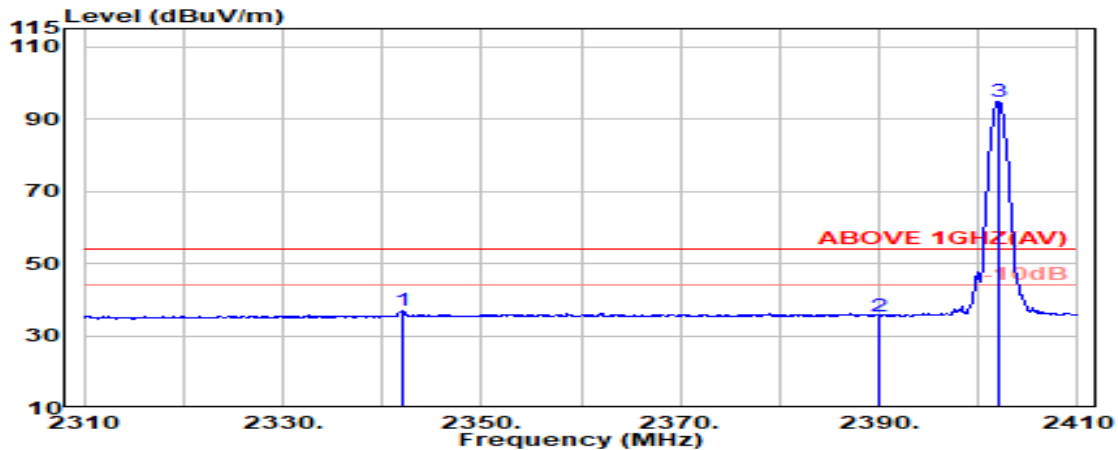
Test SKU: SKU #1 (With LUXSHARE-ICT ANT)

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
2341.900	28.12	5.96	39.93	52.12	46.27	74.00	27.73	Peak
2390.000	28.20	6.03	39.93	49.85	44.16	74.00	29.84	Peak
@ 2401.900	28.21	6.05	39.93	100.86	95.19	---	---	Peak

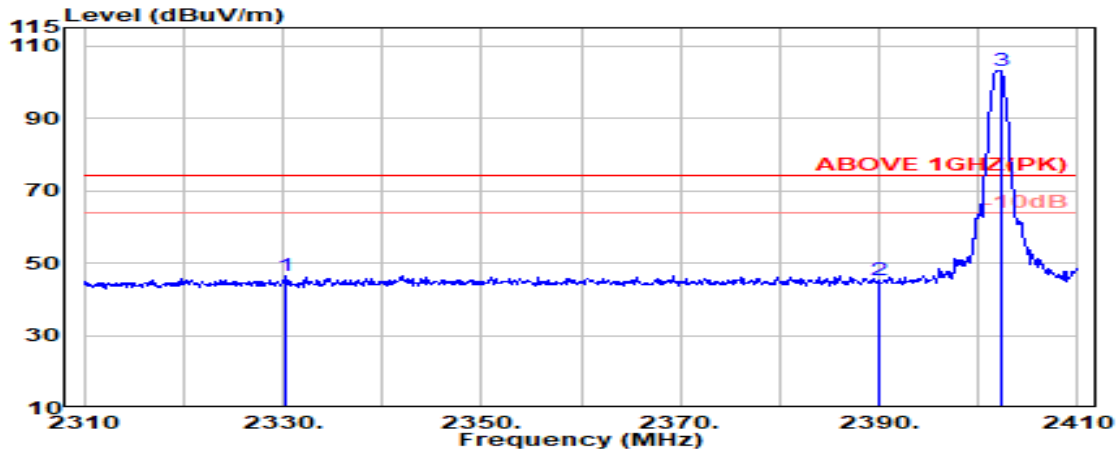


Antenna at Horizontal Polarization

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
2342.100	28.12	5.96	39.93	42.60	36.75	54.00	17.25	Average
2390.000	28.20	6.03	39.93	41.08	35.38	54.00	18.62	Average
@ 2402.000	28.21	6.05	39.93	100.64	94.98	---	---	Average

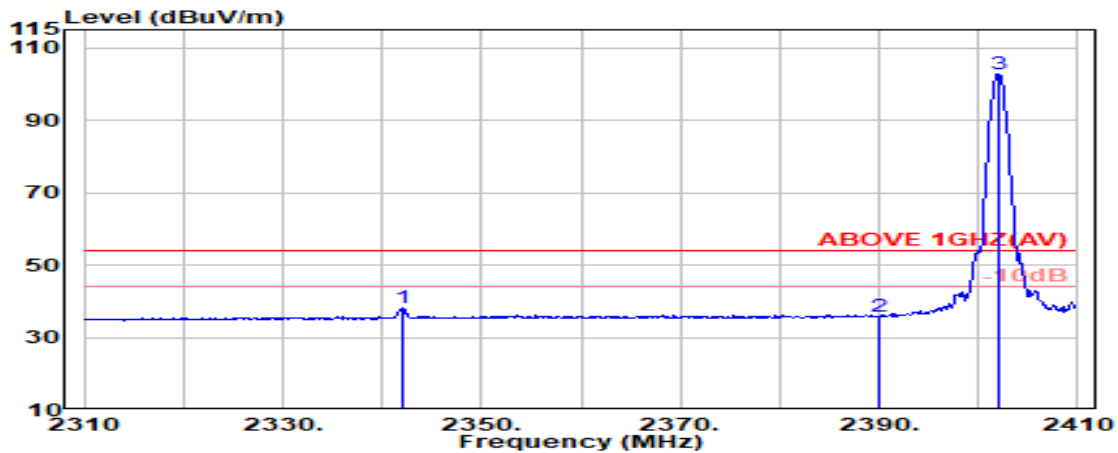
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2330.300	28.00	5.95	39.94	52.58	46.59	74.00	27.41	Peak
2390.000	28.20	6.03	39.93	50.90	45.21	74.00	28.79	Peak
@ 2402.200	28.21	6.05	39.93	108.72	103.05	---	---	Peak

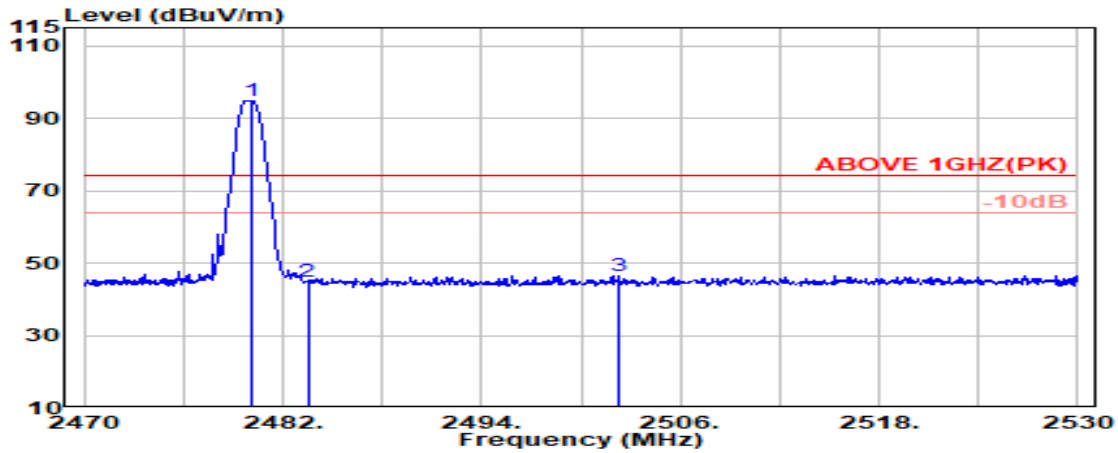


Antenna at Vertical Polarization

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
2342.000	28.12	5.96	39.93	44.08	38.23	54.00	15.77	Average
2390.000	28.20	6.03	39.93	41.49	35.80	54.00	18.20	Average
@ 2402.000	28.21	6.05	39.93	108.57	102.90	---	---	Average

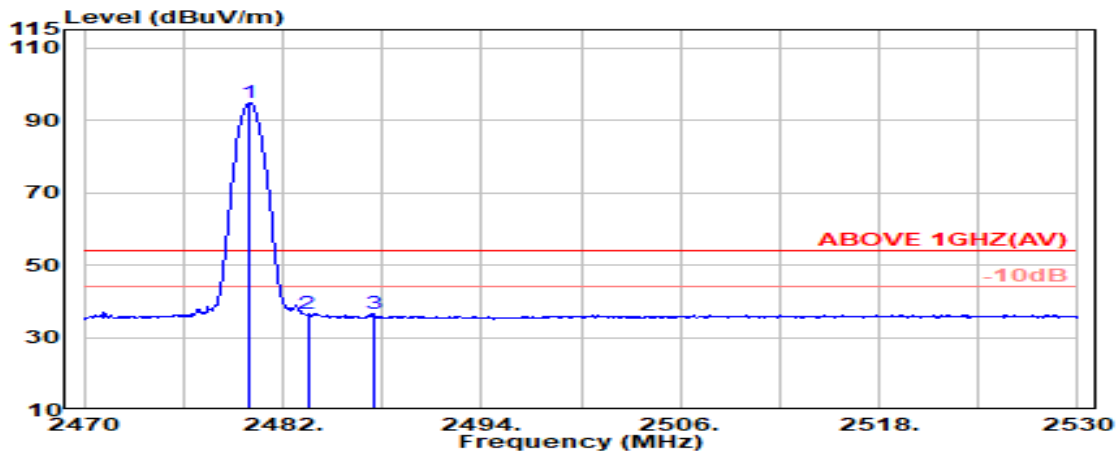
Remark: The "@" means fundamental frequency, it is ignored in this section.

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
@ 2480.150	28.46	6.16	39.92	100.27	94.97	---	---	Peak
2483.500	28.47	6.17	39.92	50.21	44.92	74.00	29.08	Peak
2502.300	28.50	6.19	39.92	51.79	46.56	74.00	27.44	Peak

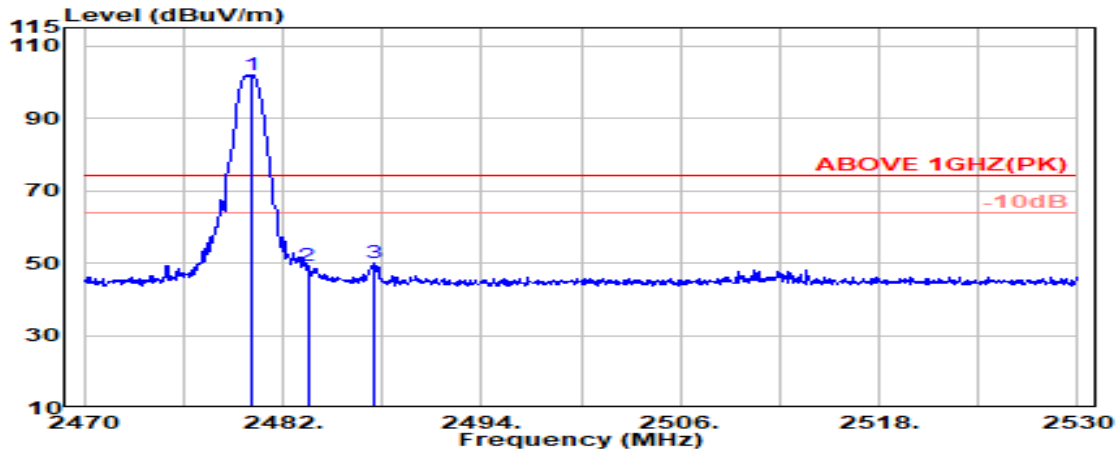


Antenna at Horizontal Polarization

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	28.46	6.16	39.92	100.03	94.73	---	---	Average
2483.500	28.47	6.17	39.92	41.72	36.43	54.00	17.57	Average
2487.550	28.48	6.17	39.92	41.83	36.56	54.00	17.44	Average

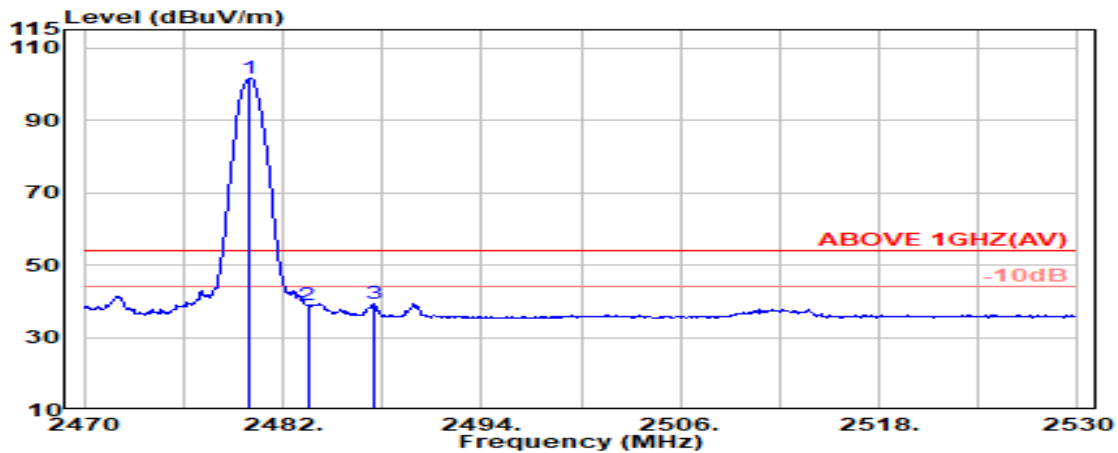
Remark: The "@" means fundamental frequency, it is ignored in this section.

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	28.46	6.16	39.92	107.08	101.78	---	---	Peak
2483.500	28.47	6.17	39.92	54.68	49.39	74.00	24.61	Peak
2487.550	28.48	6.17	39.92	55.29	50.02	74.00	23.98	Peak

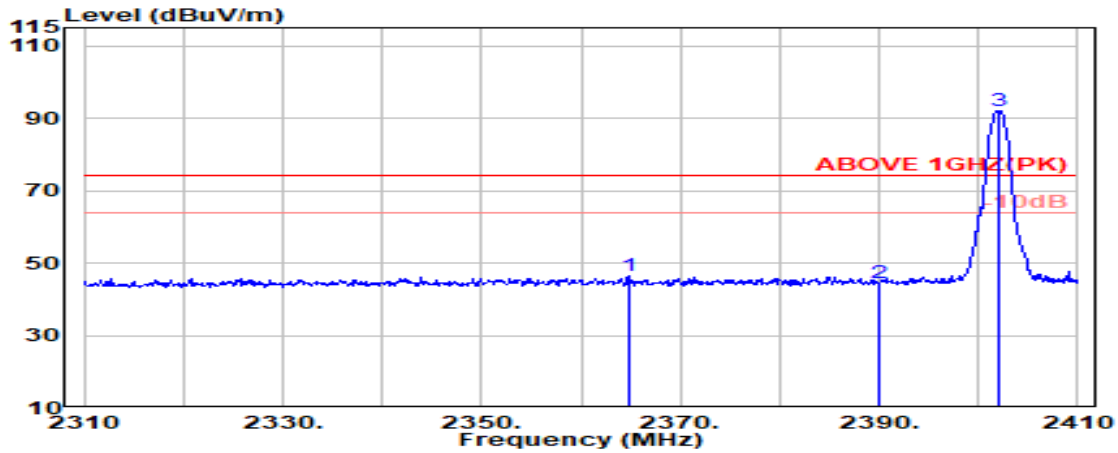


Antenna at Vertical Polarization

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	6.16	39.92	106.88	101.58	---	---	Average
2483.500	28.47	6.17	39.92	44.06	38.77	54.00	15.23	Average
2487.500	28.48	6.17	39.92	44.70	39.43	54.00	14.57	Average

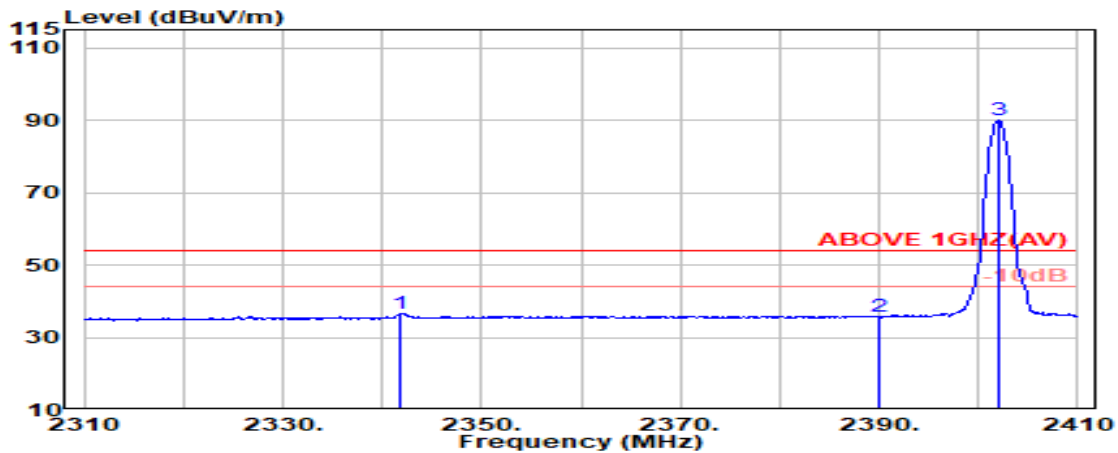
Remark: The "@" means fundamental frequency, it is ignored in this section.

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
2364.800	28.20	6.00	39.93	52.21	46.48	74.00	27.52	Peak
2390.000	28.20	6.03	39.93	50.36	44.67	74.00	29.33	Peak
@ 2402.100	28.21	6.05	39.93	97.75	92.08	---	---	Peak

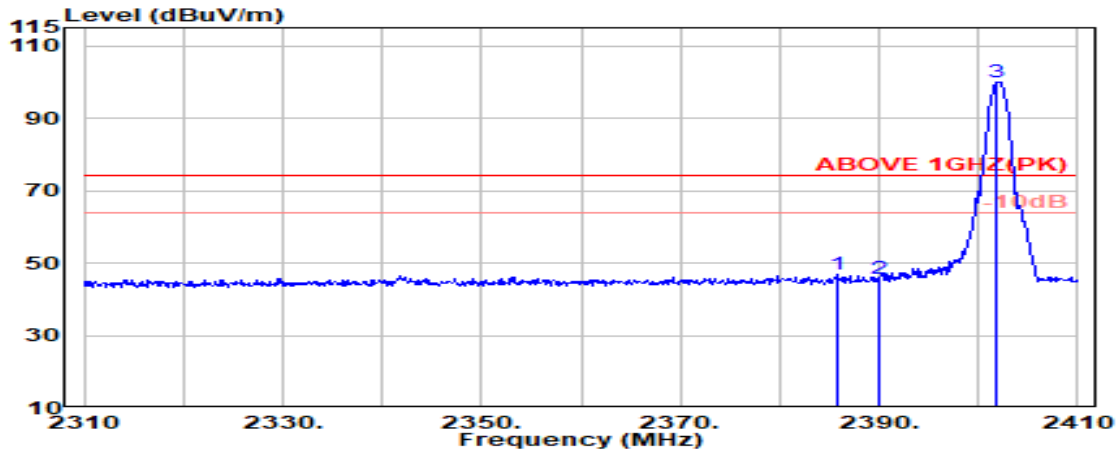


Antenna at Horizontal Polarization

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
2341.700	28.12	5.96	39.93	42.45	36.60	54.00	17.40	Average
2390.000	28.20	6.03	39.93	41.29	35.60	54.00	18.40	Average
@ 2402.000	28.21	6.05	39.93	95.52	89.85	---	---	Average

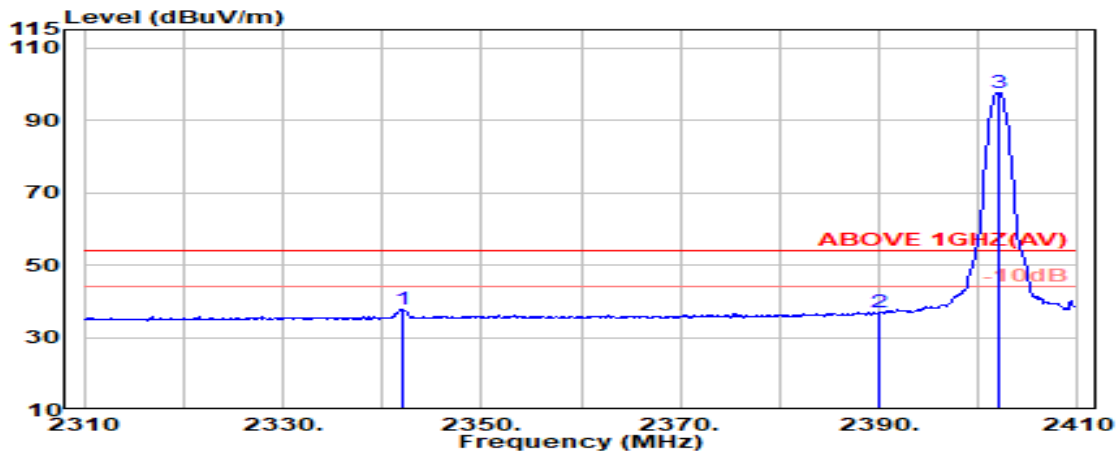
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2385.700	28.20	6.03	39.93	52.45	46.75	74.00	27.25	Peak
2390.000	28.20	6.03	39.93	51.28	45.59	74.00	28.41	Peak
@ 2401.900	28.21	6.05	39.93	105.64	99.97	---	---	Peak

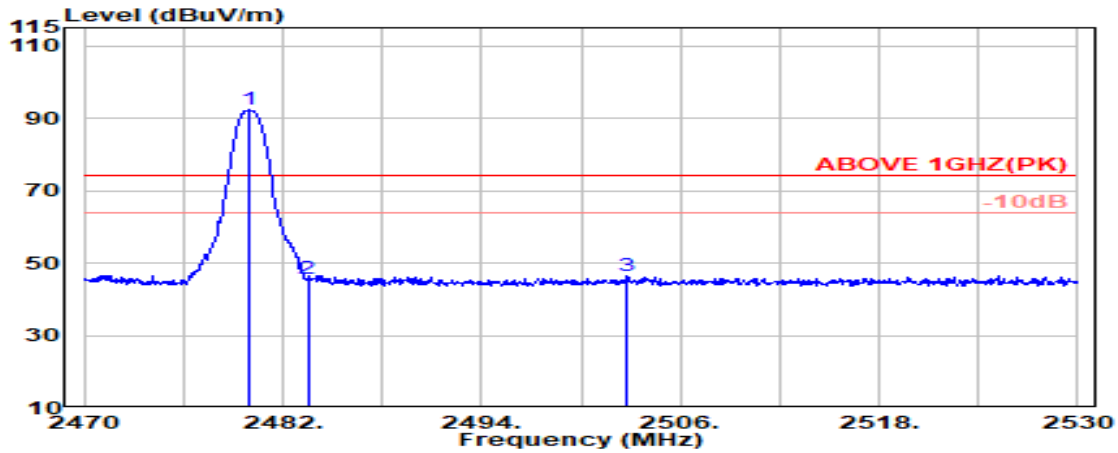


Antenna at Vertical Polarization

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
2342.000	28.12	5.96	39.93	43.66	37.81	54.00	16.19	Average
2390.000	28.20	6.03	39.93	42.56	36.86	54.00	17.14	Average
@ 2402.000	28.21	6.05	39.93	103.37	97.70	---	---	Average

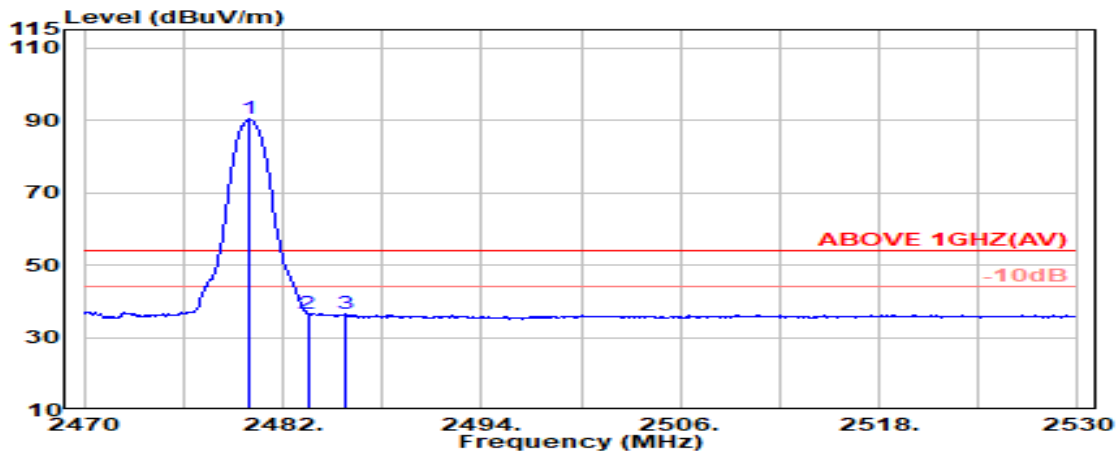
Remark: The “@” means fundamental frequency, it is ignored in this section.

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	28.46	6.16	39.92	97.60	92.30	---	---	Peak
2483.500	28.47	6.17	39.92	50.96	45.67	74.00	28.33	Peak
2502.800	28.51	6.19	39.92	51.72	46.50	74.00	27.50	Peak

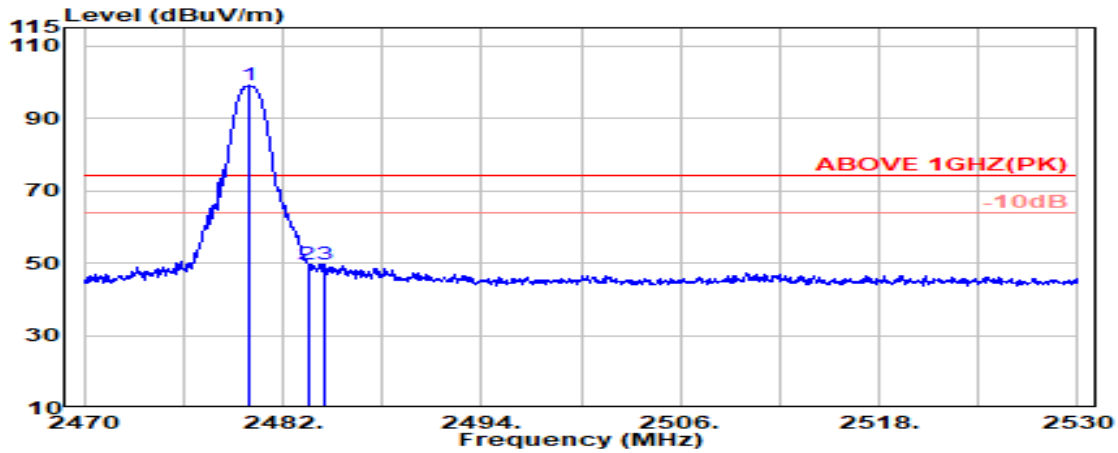


Antenna at Horizontal Polarization

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
@ 2479.950	28.46	6.16	39.92	95.85	90.55	---	---	Average
2483.500	28.47	6.17	39.92	41.91	36.62	54.00	17.38	Average
2485.850	28.47	6.17	39.92	41.67	36.39	54.00	17.61	Average

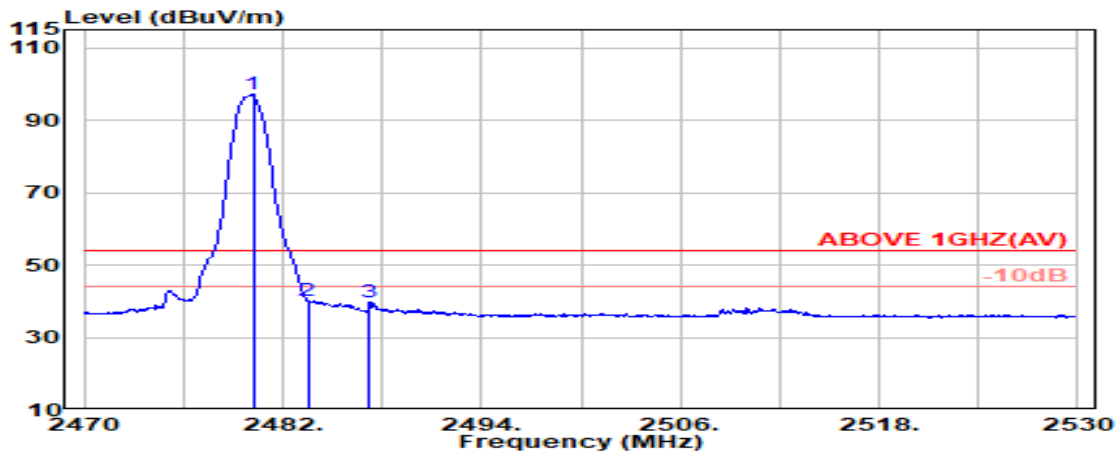
Remark: The “@” means fundamental frequency, it is ignored in this section.

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	6.16	39.92	104.36	99.06	---	---	Peak
2483.500	28.47	6.17	39.92	54.78	49.49	74.00	24.51	Peak
2484.500	28.47	6.17	39.92	55.09	49.80	74.00	24.20	Peak



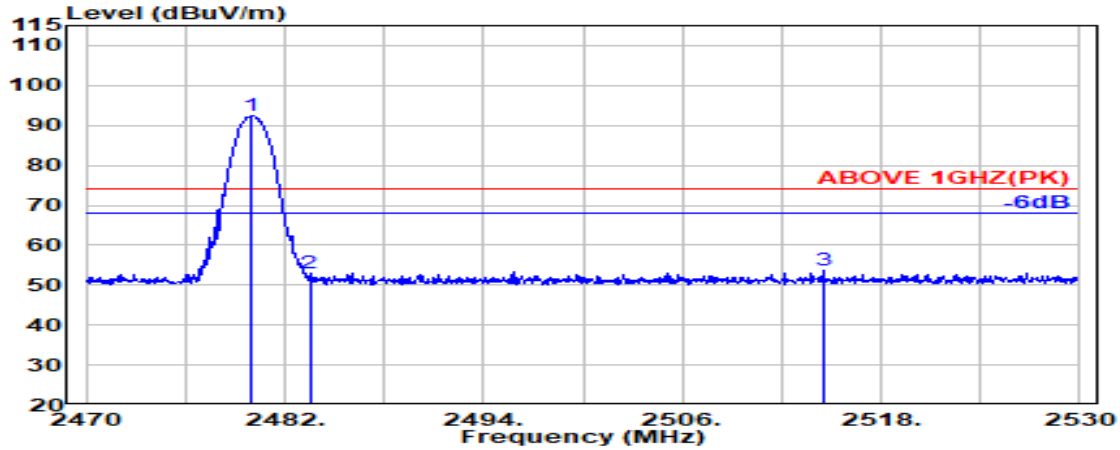
Antenna at Vertical Polarization

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
@ 2480.200	28.46	6.16	39.92	102.49	97.19	---	---	Average
2483.500	28.47	6.17	39.92	45.22	39.94	54.00	14.06	Average
2487.200	28.47	6.17	39.92	45.05	39.77	54.00	14.23	Average

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

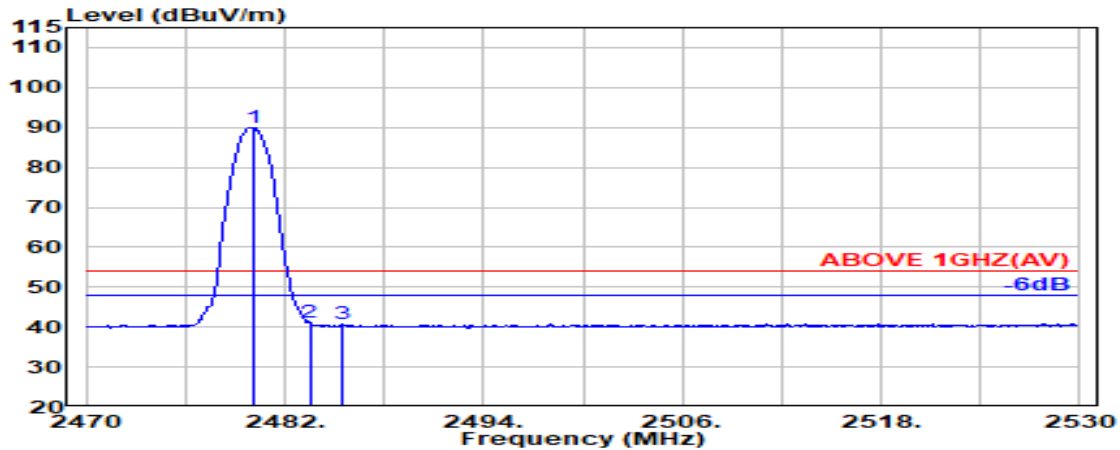
Spot Check with SKU #2 (with INAPQ ANT)

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
@ 2480.000	28.46	6.16	39.92	97.84	92.54	---	---	Peak
2483.500	28.47	6.17	39.92	58.16	52.88	74.00	21.12	Peak
2514.500	28.53	6.21	39.92	59.02	53.83	74.00	20.17	Peak

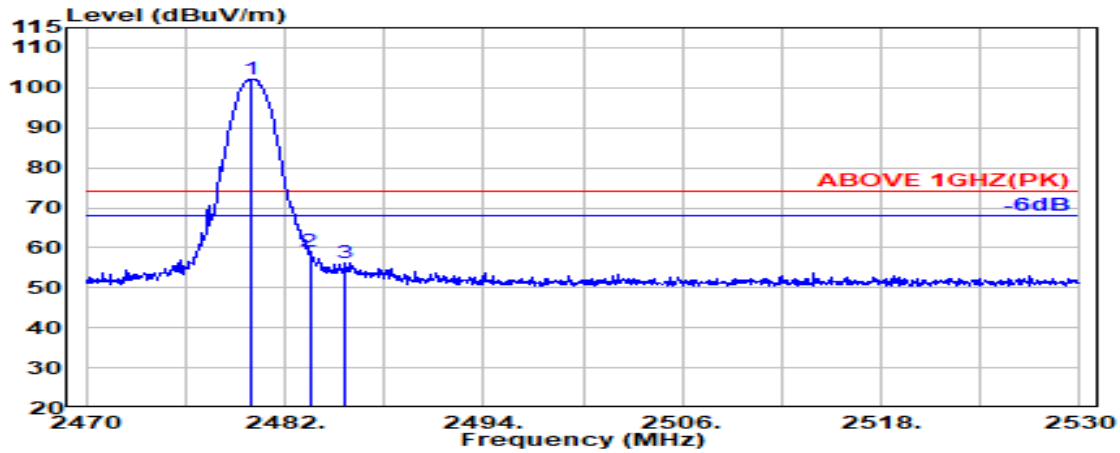


Antenna at Horizontal Polarization

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	28.46	6.16	39.92	95.34	90.05	---	---	Average
2483.500	28.47	6.17	39.92	46.27	40.98	54.00	13.02	Average
2485.450	28.47	6.17	39.92	46.04	40.76	54.00	13.24	Average

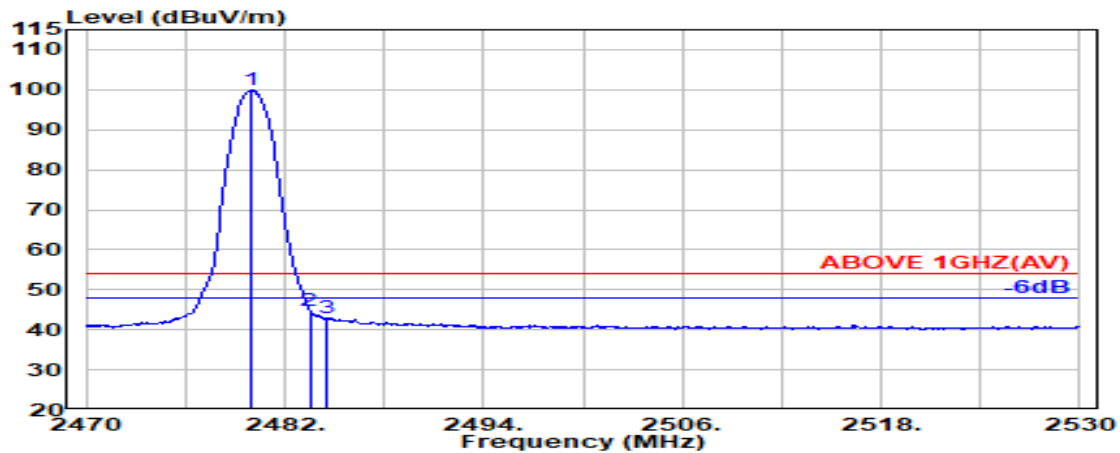
Remark: The “@” means fundamental frequency, it is ignored in this section.

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	6.16	39.92	107.55	102.25	---	---	Peak
2483.500	28.47	6.17	39.92	64.19	58.90	74.00	15.10	Peak
2485.600	28.47	6.17	39.92	61.61	56.33	74.00	17.67	Peak



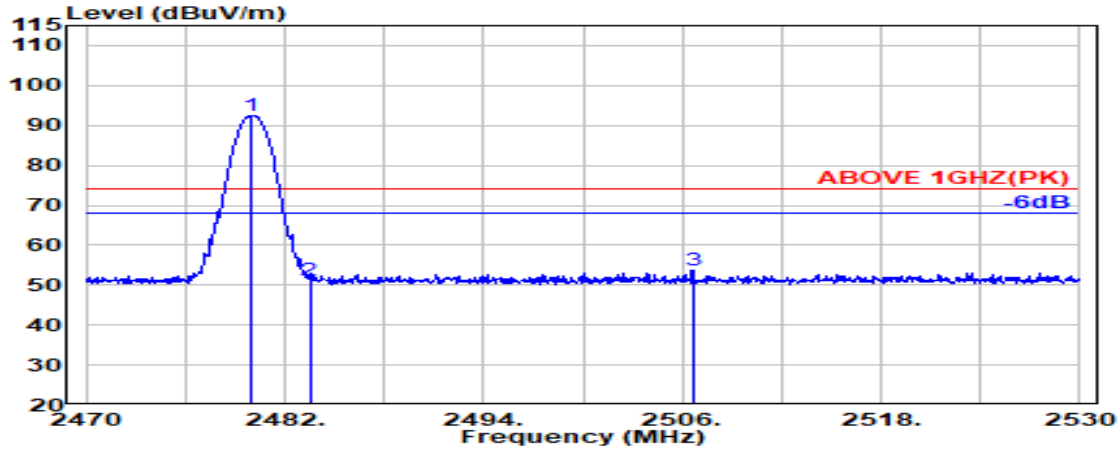
Antenna at Vertical Polarization

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	6.16	39.92	105.10	99.80	---	---	Average
2483.500	28.47	6.17	39.92	49.96	44.67	54.00	9.33	Average
2484.550	28.47	6.17	39.92	48.22	42.94	54.00	11.06	Average

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

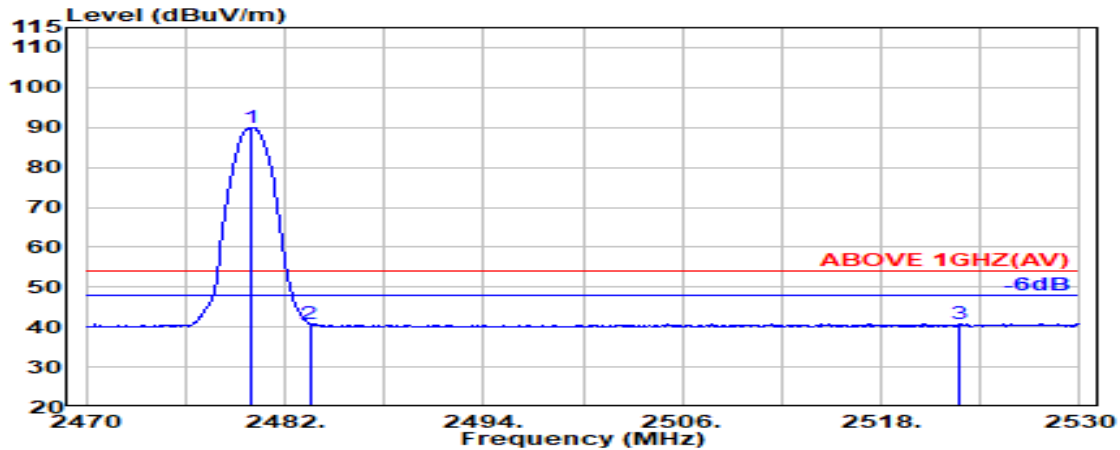
Spot Check with SKU #2 (with LUXSHARE-ICT ANT)

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
@ 2479.950	28.46	6.16	39.92	97.88	92.58	---	---	Peak
2483.500	28.47	6.17	39.92	56.55	51.26	74.00	22.74	Peak
2506.650	28.51	6.20	39.92	59.07	53.86	74.00	20.14	Peak

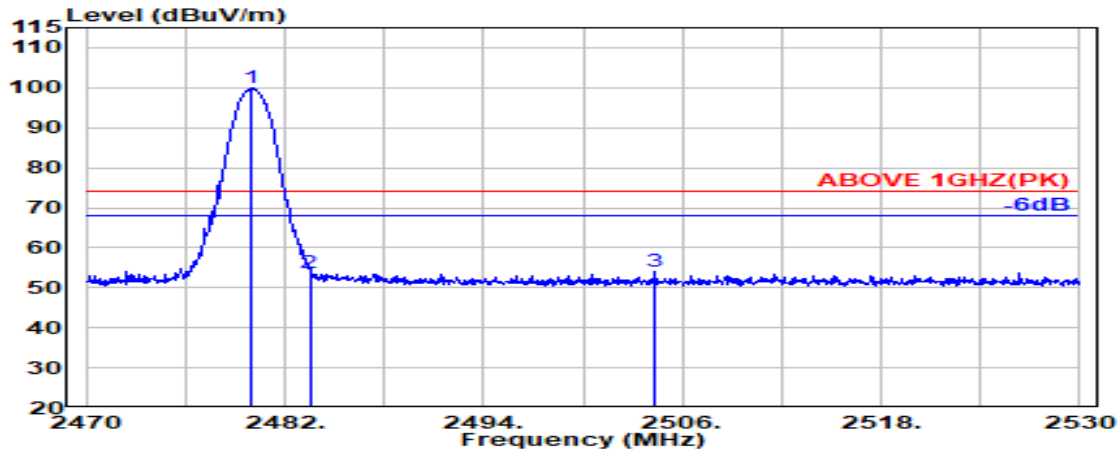


Antenna at Horizontal Polarization

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	6.16	39.92	95.35	90.06	---	---	Average
2483.500	28.47	6.17	39.92	46.19	40.90	54.00	13.10	Average
2522.750	28.55	6.22	39.92	46.09	40.93	54.00	13.07	Average

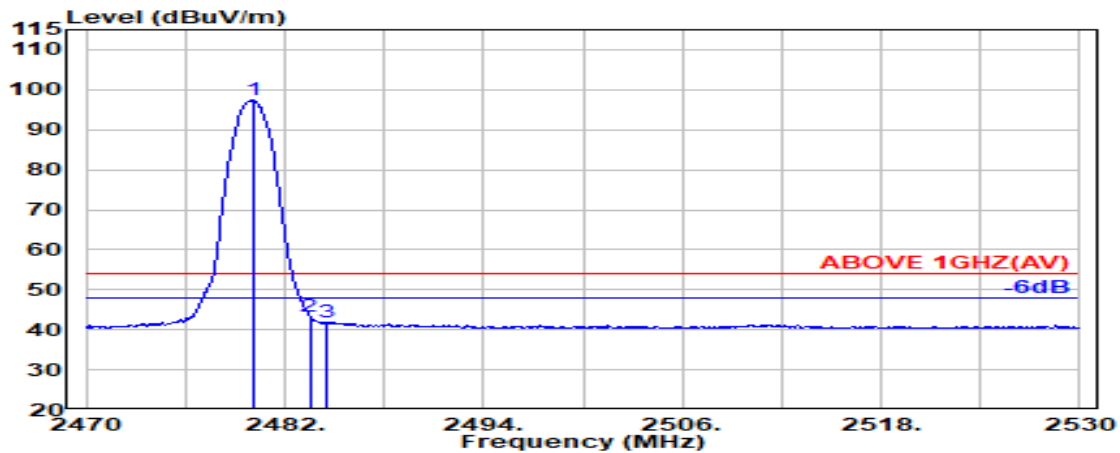
Remark: The “@” means fundamental frequency, it is ignored in this section.

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	6.16	39.92	105.27	99.97	---	---	Peak
2483.500	28.47	6.17	39.92	59.03	53.74	74.00	20.26	Peak
2504.300	28.51	6.20	39.92	59.11	53.89	74.00	20.11	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	28.46	6.16	39.92	102.64	97.34	---	---	Average
2483.500	28.47	6.17	39.92	48.46	43.18	54.00	10.82	Average
2484.500	28.47	6.17	39.92	47.17	41.89	54.00	12.11	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: SKU #1 (With INPAQ ANT)

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	33.21	8.32	39.37	38.03	40.19	54.00	13.81	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	33.21	8.32	39.37	39.53	41.69	54.00	12.31	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	33.43	8.38	39.34	38.66	41.12	54.00	12.88	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	33.43	8.38	39.34	38.85	41.31	54.00	12.69	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	33.72	8.42	39.30	36.61	39.45	54.00	14.55	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	33.72	8.42	39.30	38.69	41.53	54.00	12.47	Peak

Test SKU: SKU #1 (With LUXSHARE-ICT ANT)

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 (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4804.000	33.21	8.32	39.39	39.72	41.86	54.00	12.14	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4804.000	33.21	8.32	39.39	37.13	39.28	54.00	14.72	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 (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4882.000	33.43	8.38	39.35	40.07	42.53	54.00	11.47	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4882.000	33.43	8.38	39.35	40.70	43.15	54.00	10.85	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 (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4960.000	33.72	8.42	39.32	41.00	43.83	54.00	10.17	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4960.000	33.72	8.42	39.32	42.36	45.19	54.00	8.81	Peak

Spot Check with SKU #2 (with INAPQ ANT)

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	33.21	8.32	39.37	41.22	43.38	54.00	10.62	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	33.21	8.32	39.37	41.55	43.71	54.00	10.29	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)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.72	8.42	39.30	40.68	43.53	54.00	10.47	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	33.72	8.42	39.30	40.01	42.85	54.00	11.15	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

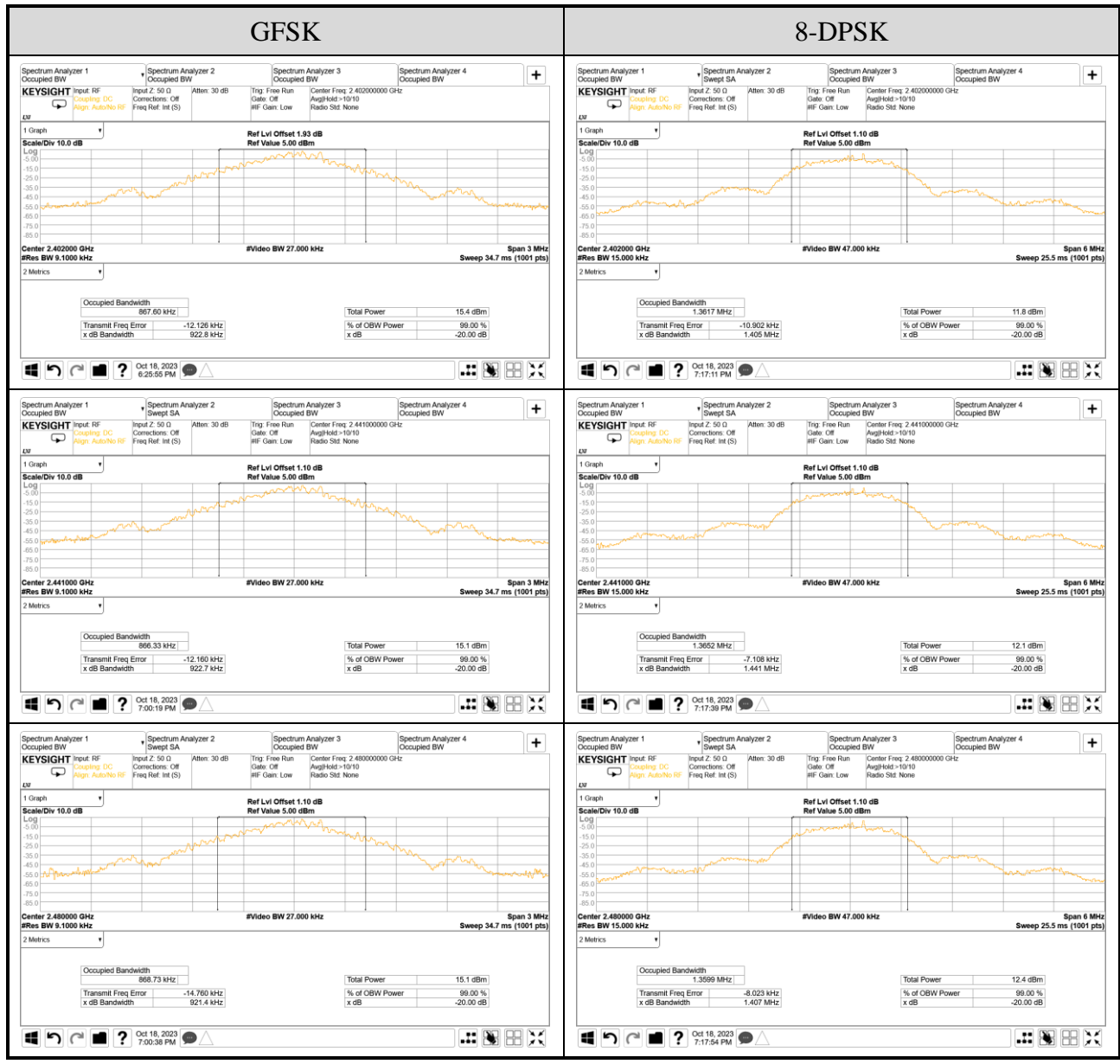
Test Date	2023/10/18	Temp./Hum.	24°C/61%
Cable Loss	1.10dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

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	0.9228	0.86760	0.615
	2441	0.9227	0.86633	0.615
	2480	0.9214	0.86873	0.614
8-DPSK	2402	1.405	1.3617	0.937
	2441	1.441	1.3652	0.961
	2480	1.407	1.3599	0.938

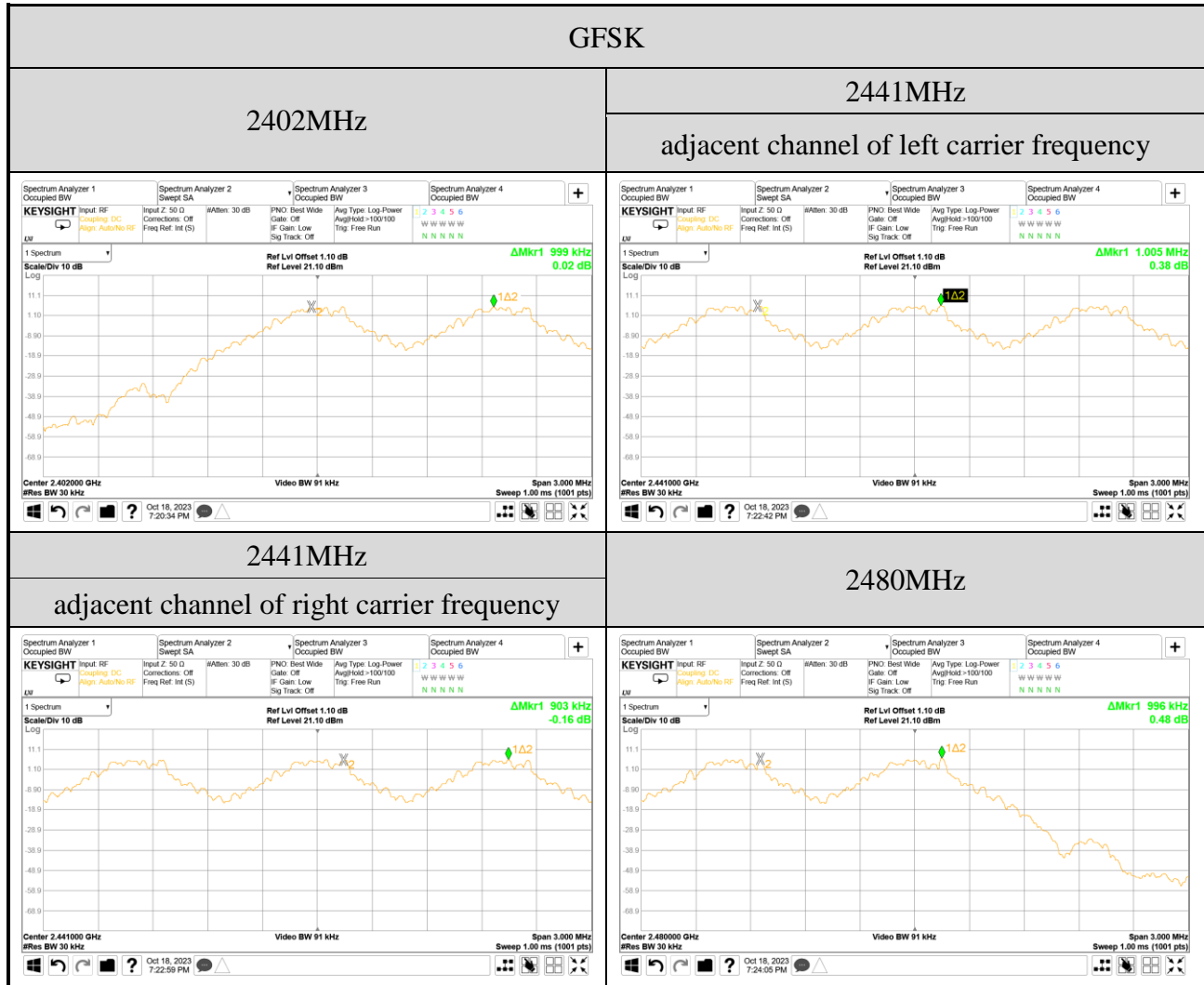
Remark: The maximum two-thirds of the 20dB bandwidth is the limit for carrier frequency separation presented.

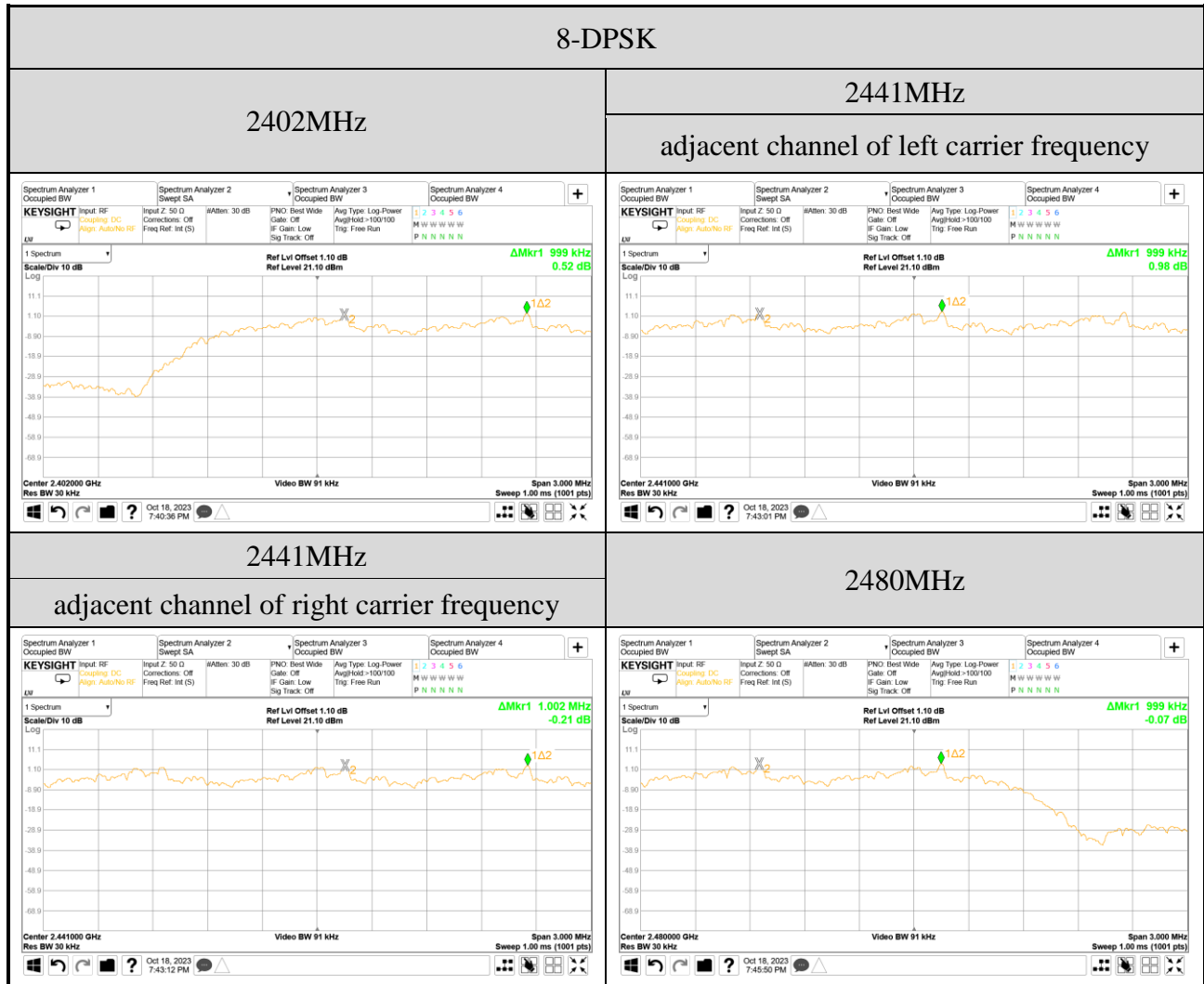
A.3.2 Measurement Plots



A.4 CARRIER FREQUENCY SEPARATION

Test Date	2023/10/18	Temp./Hum.	24°C/61%
Cable Loss	1.10dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		





A.5 TIME OF OCCUPANCY

Test Date	2023/10/18	Temp./Hum.	24°C/61%
Cable Loss	1.10dB	Tested By	Harry Huang
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	0.380	120.080	<400
		DH3	5	1.640	259.120	<400
		DH5	3	2.880	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
 $10 \text{ transmission} * 31.6 \text{ seconds} * 0.380 \text{ ms} = 120.080 \text{ ms} (<400\text{ms})$

DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
 $5 \text{ transmission} * 31.6 \text{ seconds} * 1.640 \text{ ms} = 259.120 \text{ ms} (<400\text{ms})$

DH5 Mode

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

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2441	DH1	10	0.380	120.080	<400
		DH3	5	1.640	259.120	<400
		DH5	3	2.890	273.972	<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
 $10 \text{ transmission} * 31.6 \text{ seconds} * 0.380 \text{ ms} = 120.080 \text{ ms} (<400\text{ms})$

DH3 Mode

For each second of 5 transmission appearance, the longest time of occupancy is
 $5 \text{ transmission} * 31.6 \text{ seconds} * 1.640 \text{ ms} = 259.120 \text{ ms} (<400\text{ms})$

DH5 Mode

For each second of 3 transmission appearance, the longest time of occupancy is
 $3 \text{ transmission} * 31.6 \text{ seconds} * 2.890 \text{ ms} = 273.972 \text{ ms} (<400\text{ms})$

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2480	DH1	10	0.380	120.080	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.890	273.972	<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)

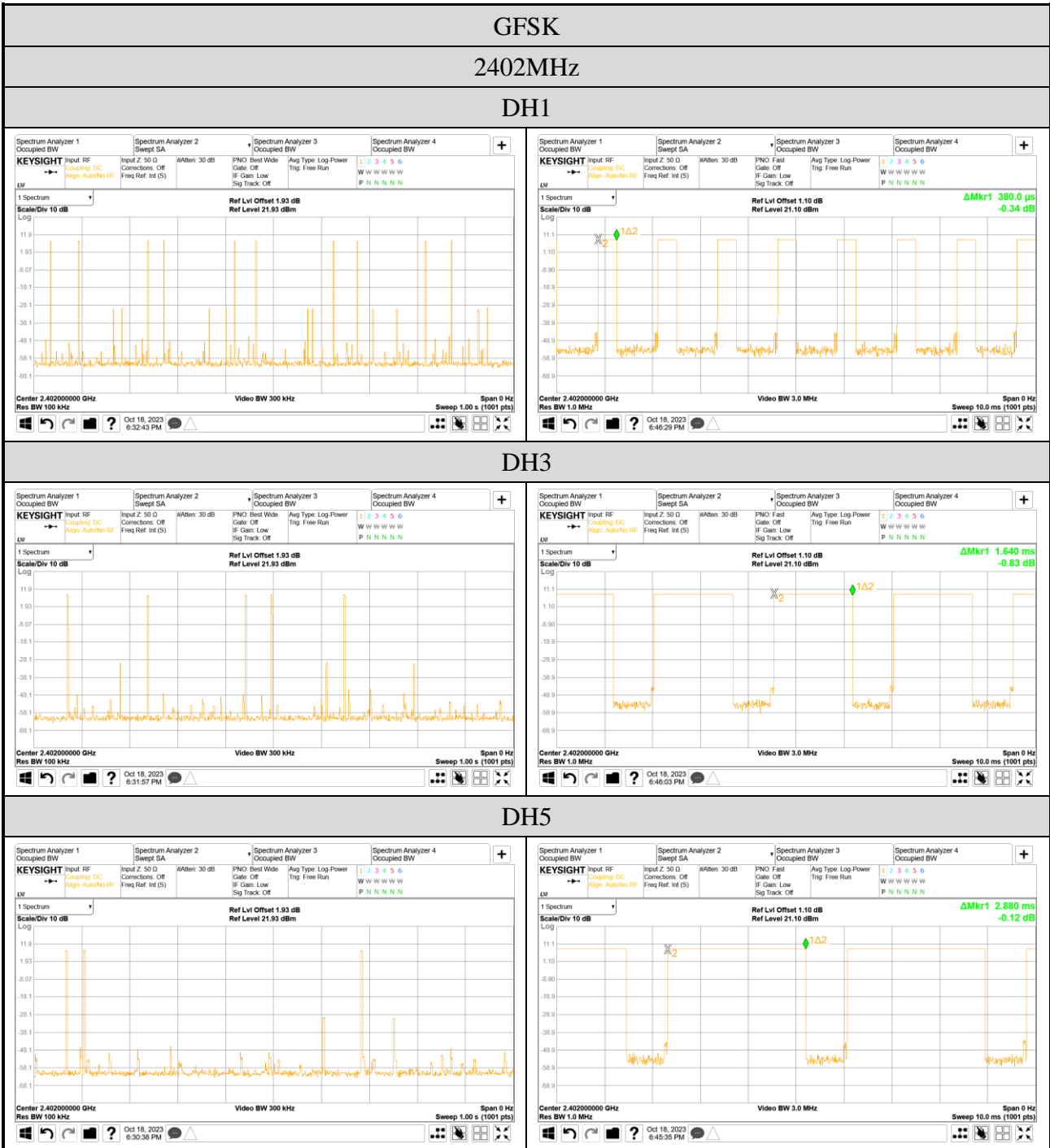
DH3 Mode

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

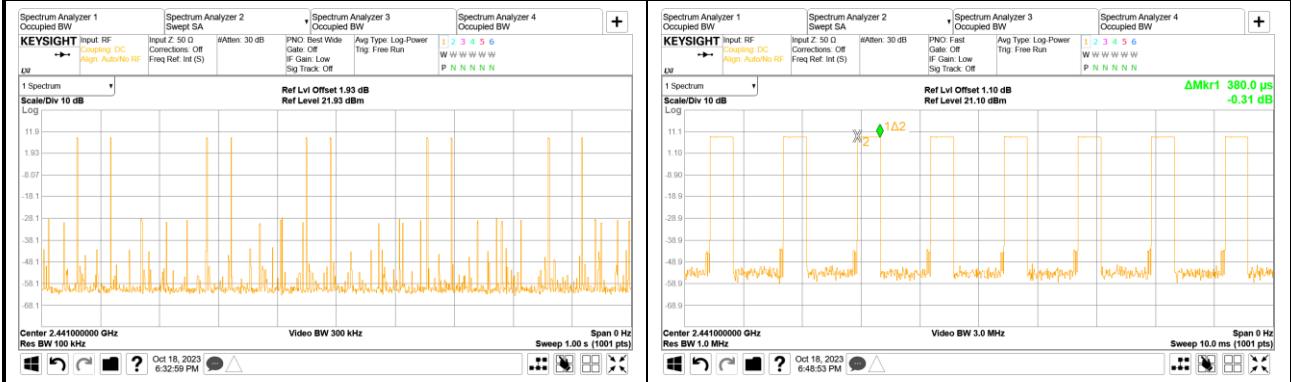
DH5 Mode

For each second of **3** transmission appearance,the longest time of occupancy is
3 transmission* **31.6** seconds* **2.890** ms= **273.972** ms (<400ms)

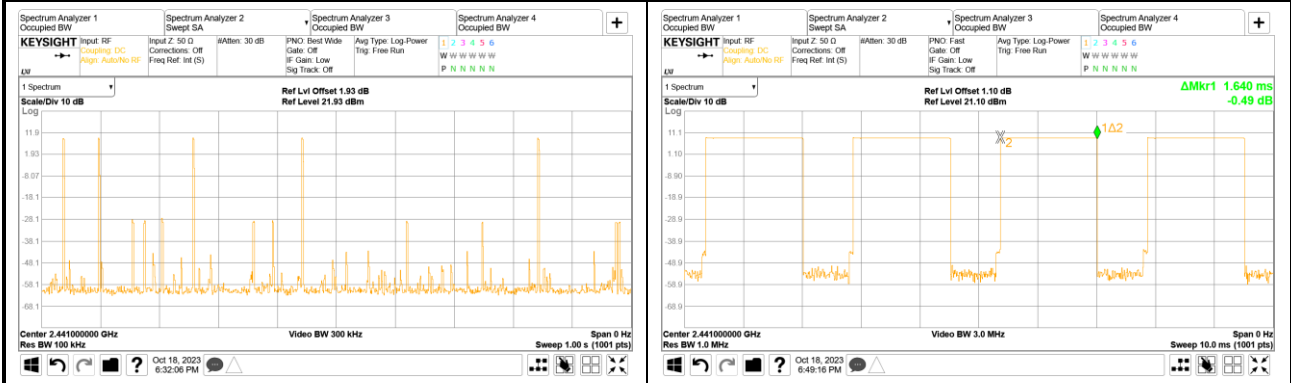
● Measurement Plots



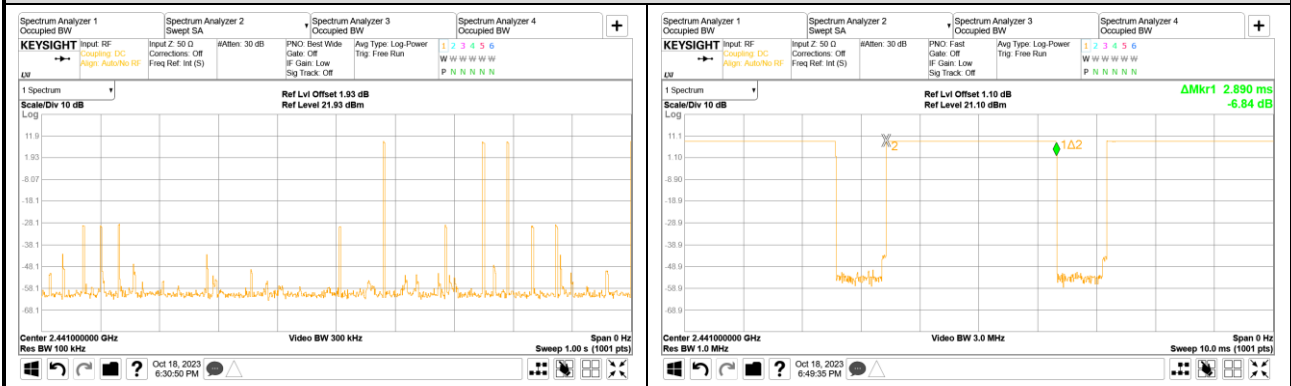
GFSK
2441MHz
DH1



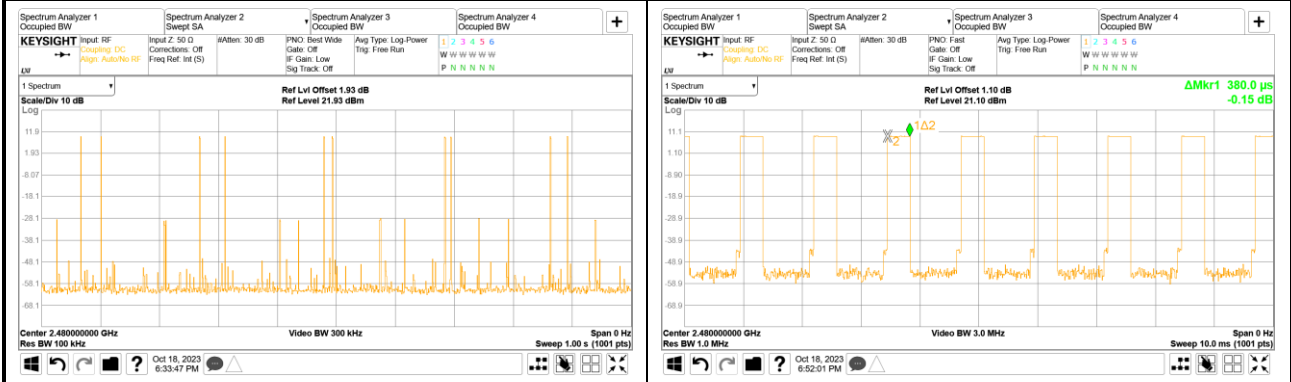
DH3



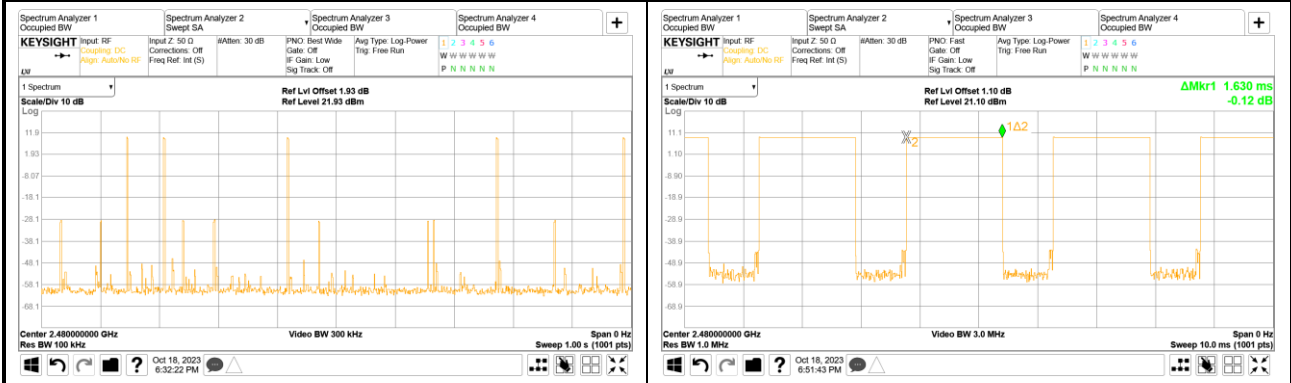
DH5



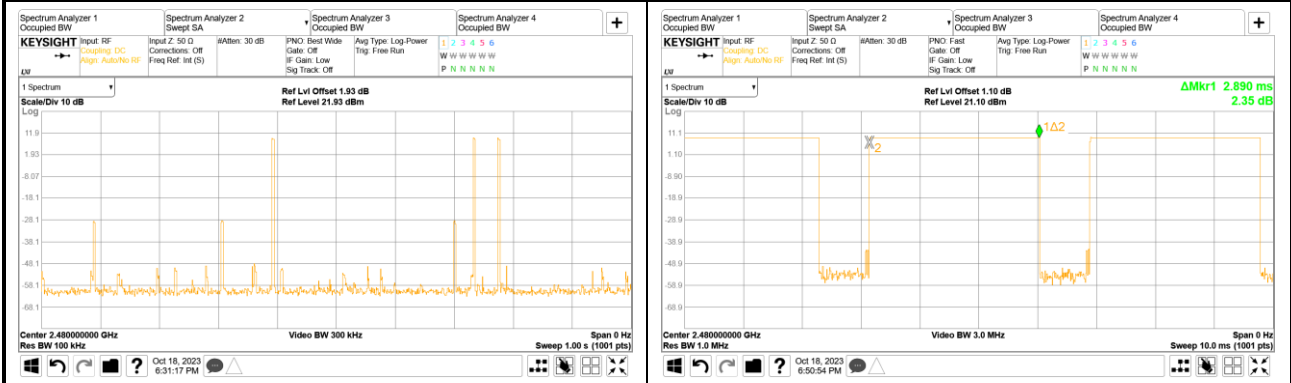
GFSK
 2480MHz
 DH1



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	0.390	123.240	<400
		3DH3	5	1.640	259.120	<400
		3DH5	3	2.890	273.972	<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 * **0.390** ms = **123.240** ms (<400ms)

3DH3 Mode

For each second of **5** transmission appearance, the longest time of occupancy is
5 transmission * **31.6** seconds * **1.640** ms = **259.120** ms (<400ms)

3DH5 Mode

For each second of **3** transmission appearance, the longest time of occupancy is
3 transmission * **31.6** seconds * **2.890** ms = **273.972** 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	0.390	123.240	<400
		3DH3	5	1.640	259.120	<400
		3DH5	3	2.900	274.920	<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 * **0.390** ms = **123.240** ms (<400ms)

3DH3 Mode

For each second of **5** transmission appearance, the longest time of occupancy is
5 transmission * **31.6** seconds * **1.640** ms = **259.120** ms (<400ms)

3DH5 Mode

For each second of **3** transmission appearance, the longest time of occupancy is
3 transmission * **31.6** seconds * **2.900** ms = **274.920** 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	0.390	123.240	<400
		3DH3	5	1.640	259.120	<400
		3DH5	3	2.890	273.972	<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 * **0.390** ms = **123.240** ms (<400ms)

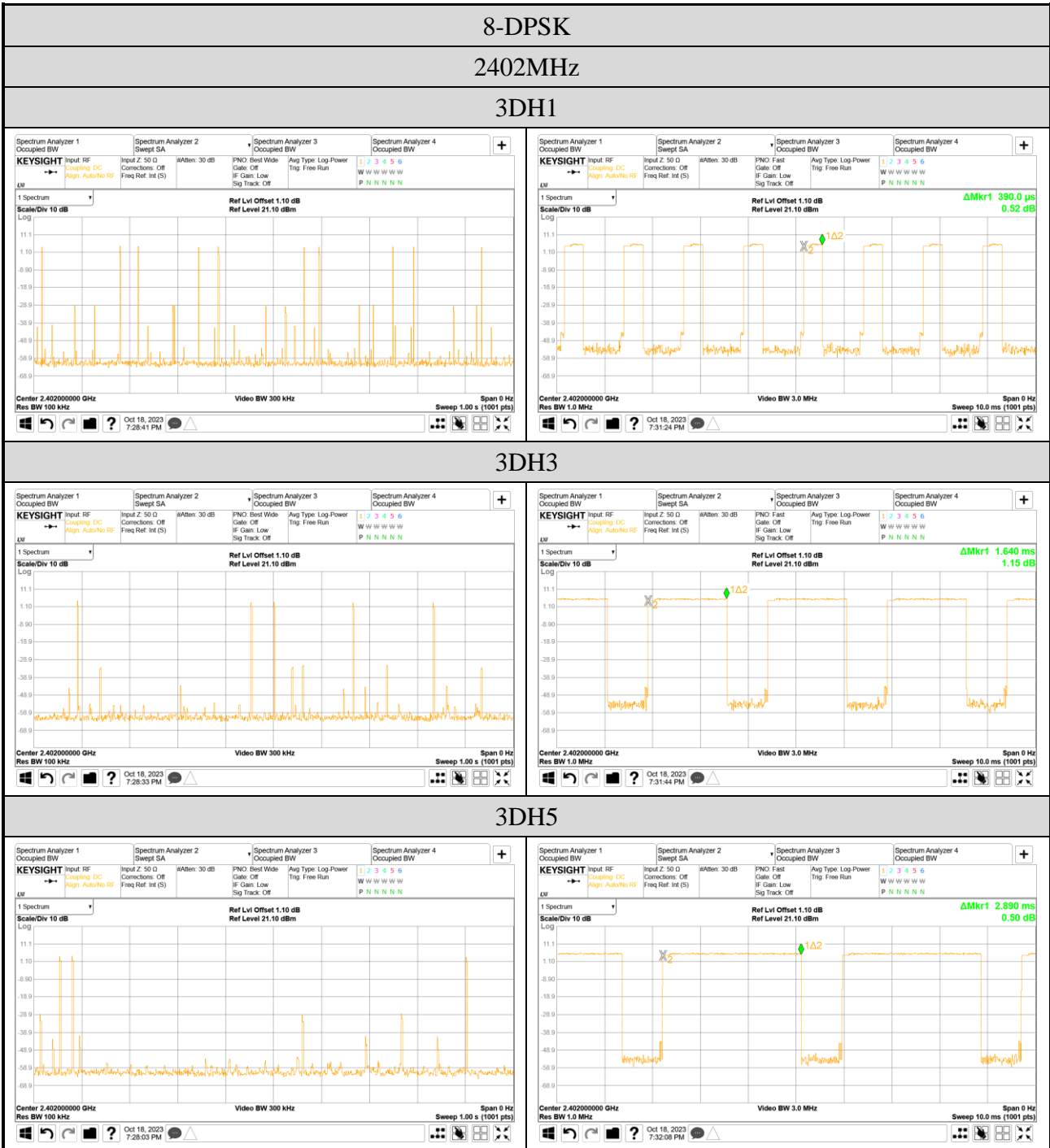
3DH3 Mode

For each second of **5** transmission appearance, the longest time of occupancy is
5 transmission * **31.6** seconds * **1.640** ms = **259.120** ms (<400ms)

3DH5 Mode

For each second of **3** transmission appearance, the longest time of occupancy is
3 transmission * **31.6** seconds * **2.890** ms = **273.972** ms (<400ms)

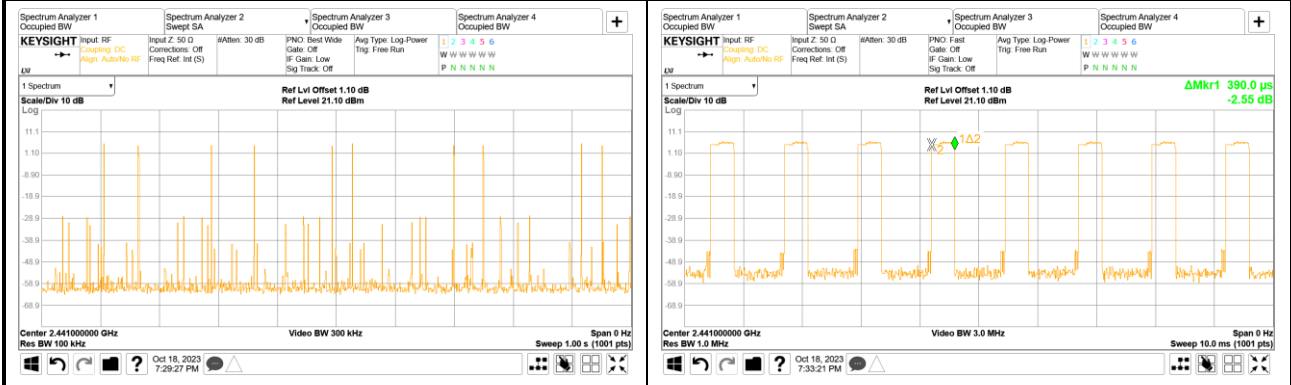
● Measurement Plots



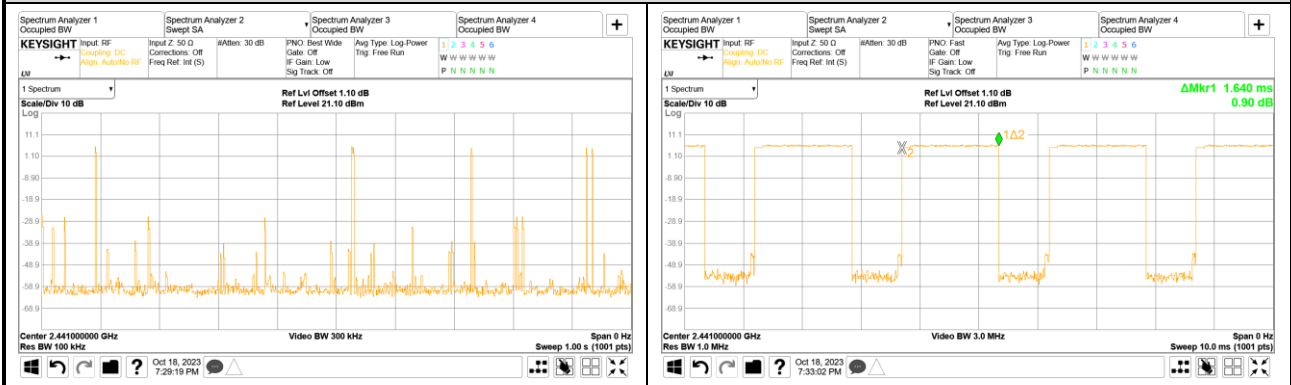
8-DPSK

2441MHz

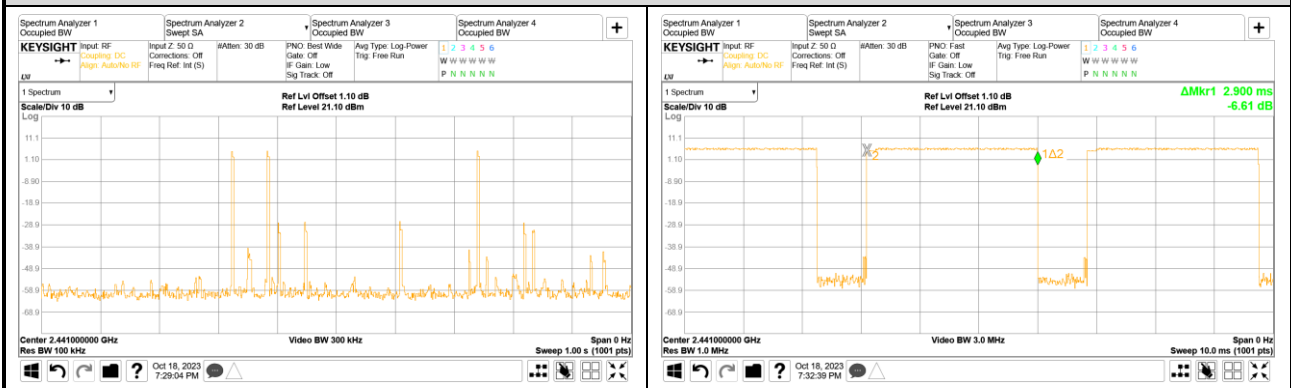
3DH1



3DH3



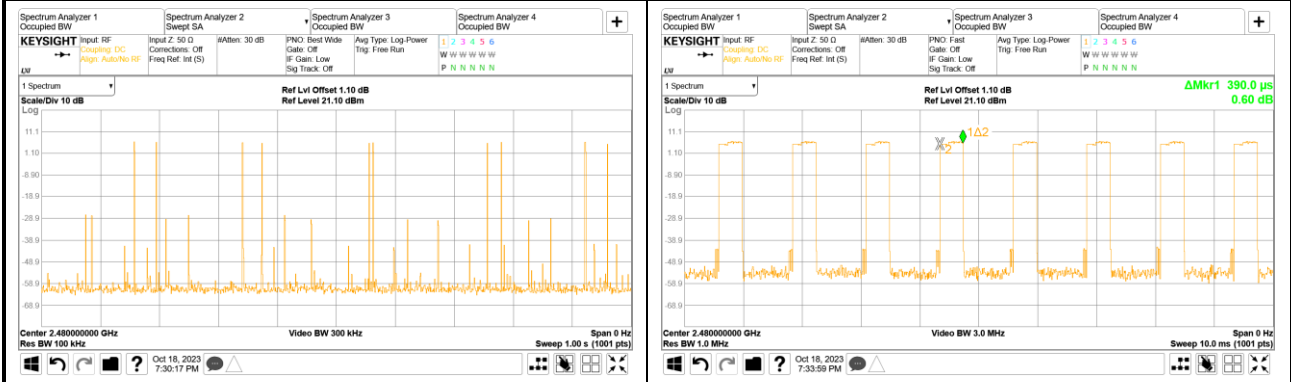
3DH5



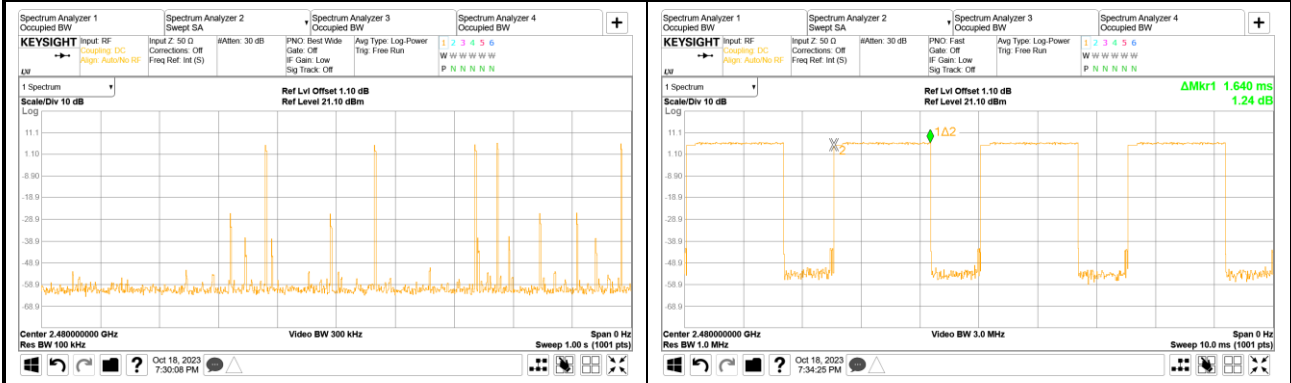
8-DPSK

2480MHz

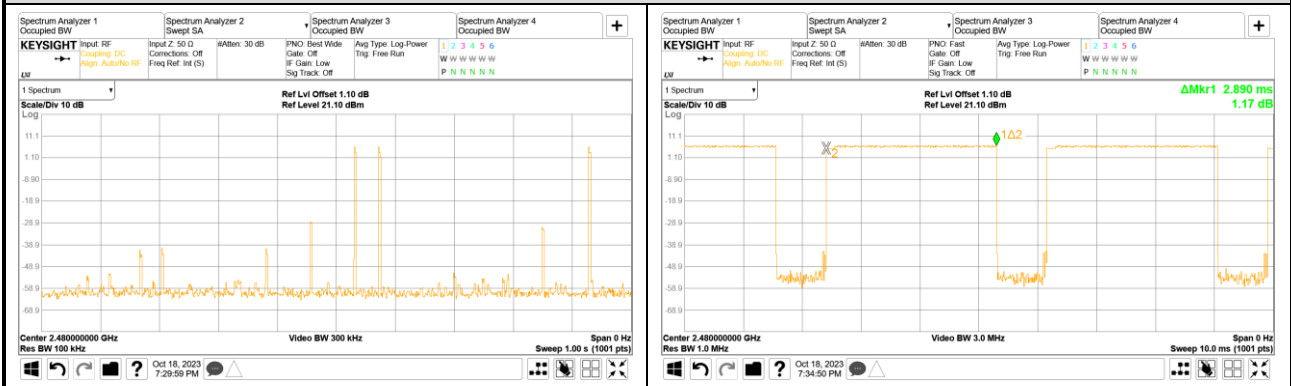
3DH1



3DH3

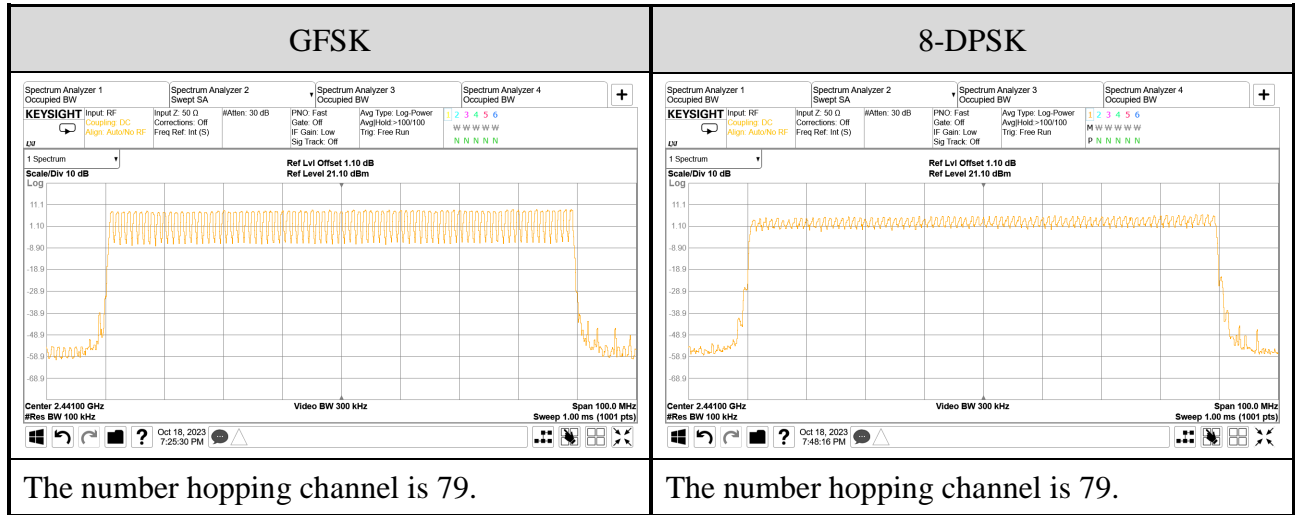


3DH5



A.6 NUMBER OF HOPPING CHANNELS

Test Date	2023/10/18	Temp./Hum.	24°C/61%
Cable Loss	1.10dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2023/11/16	Temp./Hum.	24°C/53%
Cable Loss	1.10dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

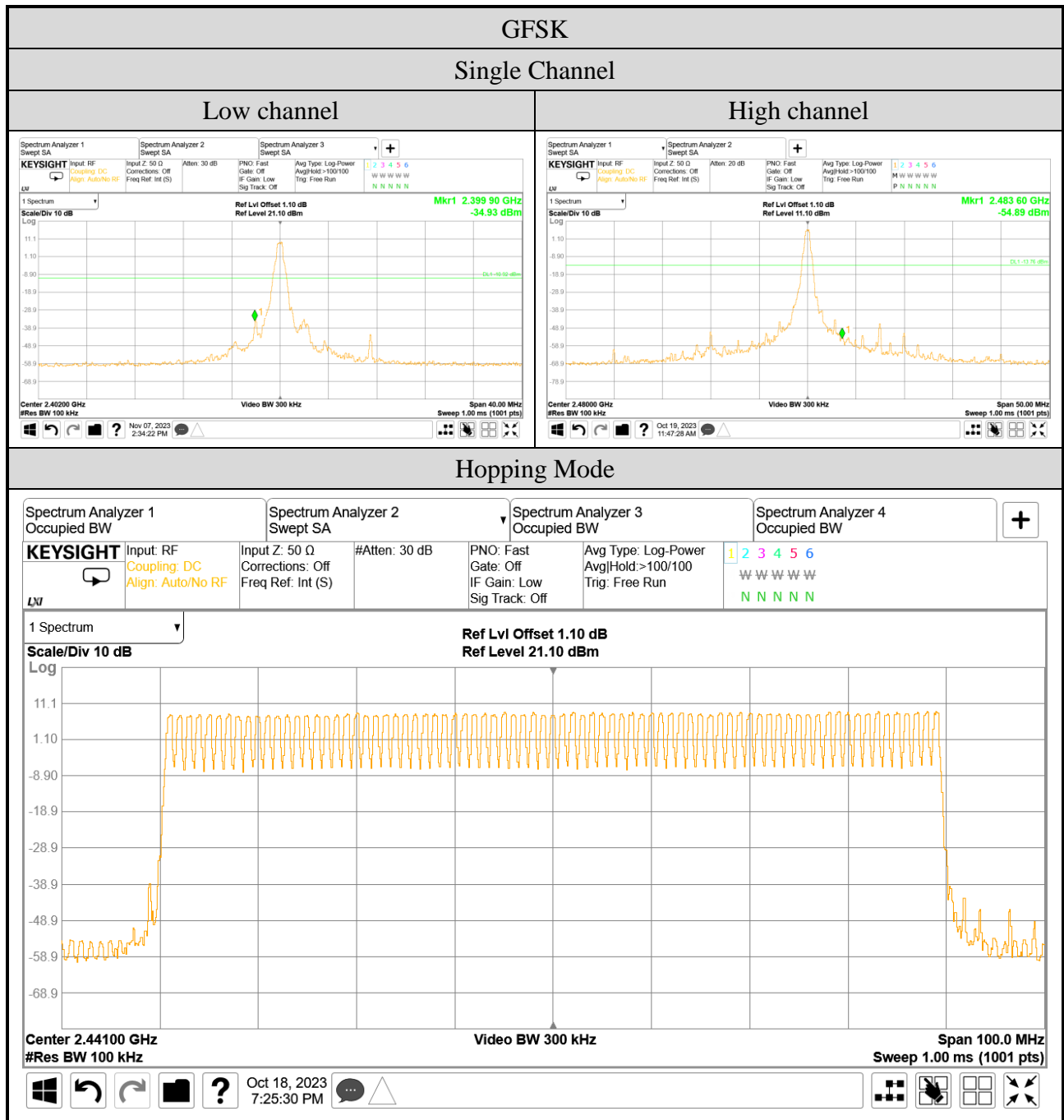
A.7.1 Maximum Peak Output Power

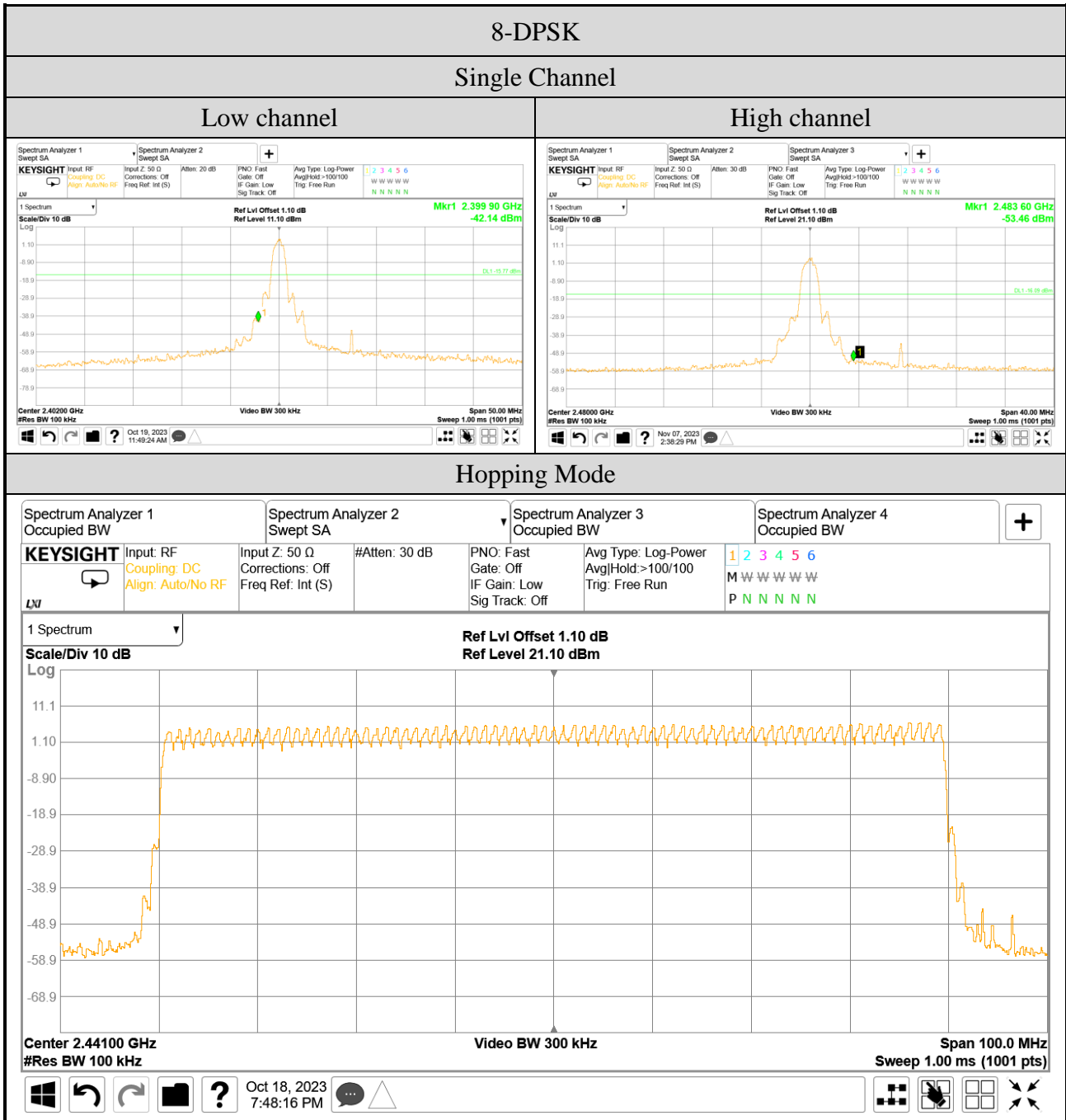
Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	9.8	0.010	21dBm (0.125W)
	2441	10.04	0.010	
	2480	10.57	0.011	
8-DPSK	2402	8.39	0.007	
	2441	8.68	0.007	
	2480	9.12	0.008	

A.8 EMISSION LIMITATIONS MEASUREMENT

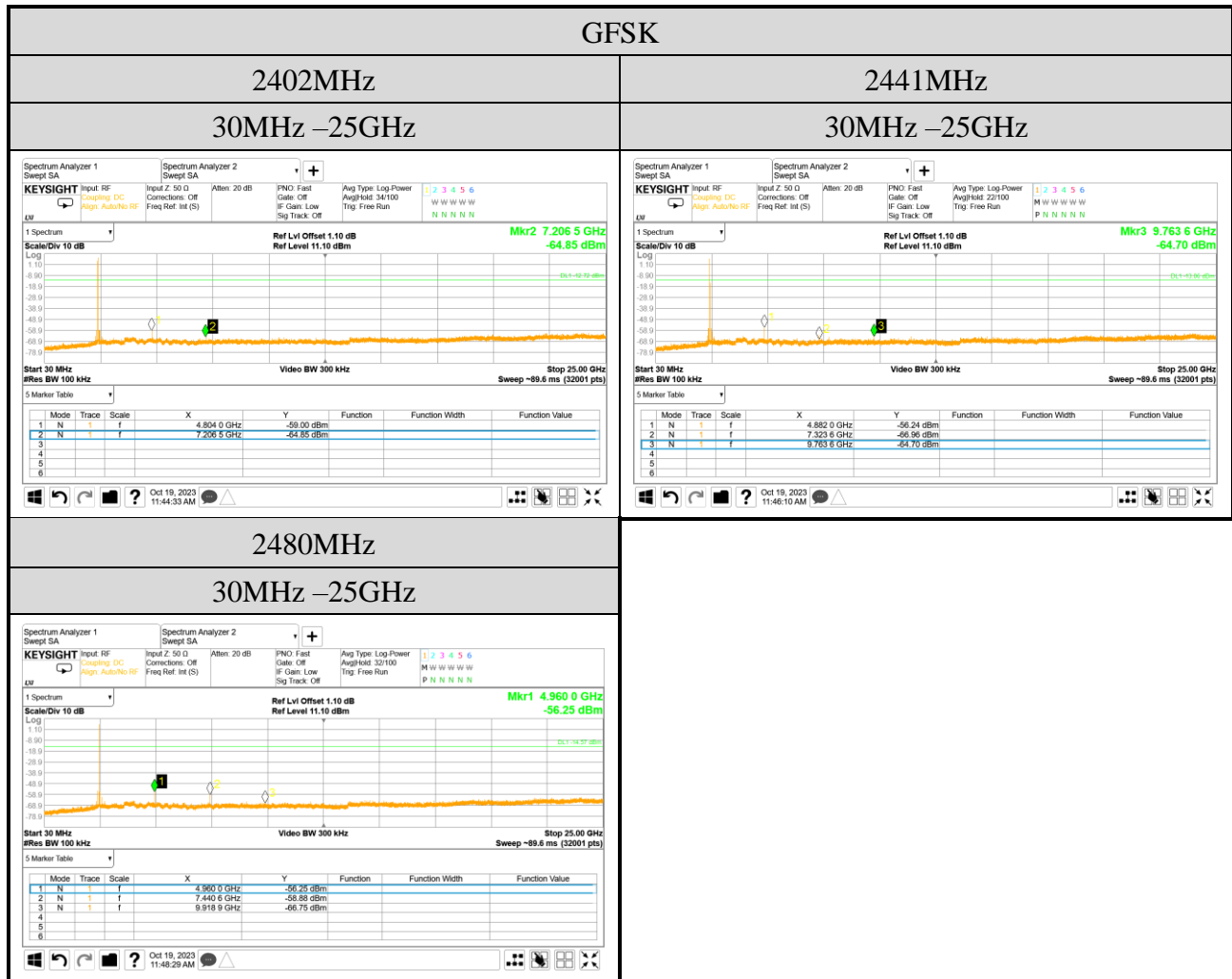
Test Date	2023/10/18 ~ 11/07	Temp./Hum.	24°C/58 ~ 61%
Cable Loss	1.10dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge

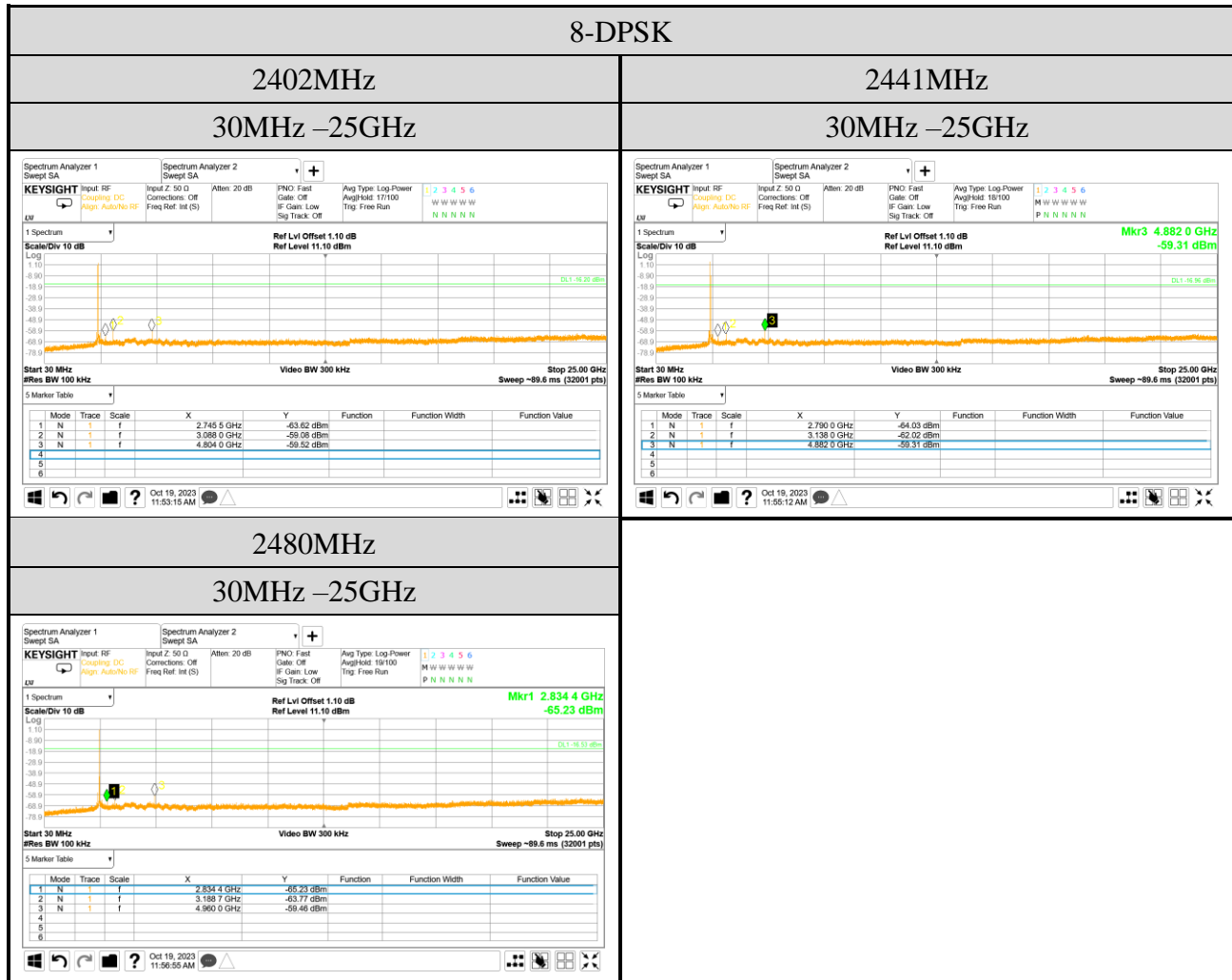




A.8.2 Spurious Emission



Note: All results have been included cable loss.



Note: All results have been included cable loss.