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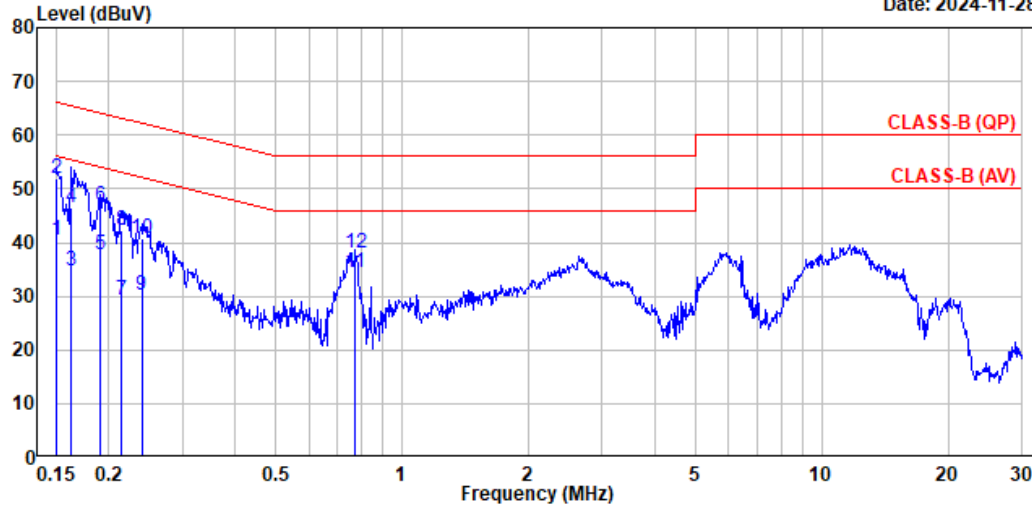
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A.1 CONDUCTED EMISSION

Test Date	2024/11/28	Temp./Hum.	21°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Byron Wu
Test SKU	With INPAQ Antenna		

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Date: 2024-11-28



Site No.	: No.7 Shielded Room	Data No.	: 4
Instrument 1	: Receiver ESR(114)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 21°C/52%	Test Rating	: 120ac/60Hz
EUT Model	: 16Z90TL	Engineer	: Byron Wu
Test Mode	: OPERATION		
	INPAQ		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.150	0.17	0.05	9.86	30.44	40.52	56.00	15.48	Average
2	0.150	0.17	0.05	9.86	41.87	51.95	66.00	14.05	QP
3	0.163	0.17	0.05	9.86	24.73	34.81	55.30	20.49	Average
4	0.163	0.17	0.05	9.86	36.56	46.64	65.30	18.66	QP
5	0.191	0.17	0.05	9.87	27.76	37.85	53.97	16.12	Average
6	0.191	0.17	0.05	9.87	36.66	46.75	63.97	17.22	QP
7	0.214	0.17	0.05	9.87	19.33	29.42	53.06	23.64	Average
8	0.214	0.17	0.05	9.87	32.15	42.24	63.06	20.82	QP
9	0.240	0.17	0.05	9.87	20.14	30.23	52.11	21.88	Average
10	0.240	0.17	0.05	9.87	30.60	40.69	62.11	21.42	QP
11	0.773	0.19	0.06	9.87	24.17	34.29	46.00	11.71	Average
12	0.773	0.19	0.06	9.87	27.94	38.06	56.00	17.94	QP

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

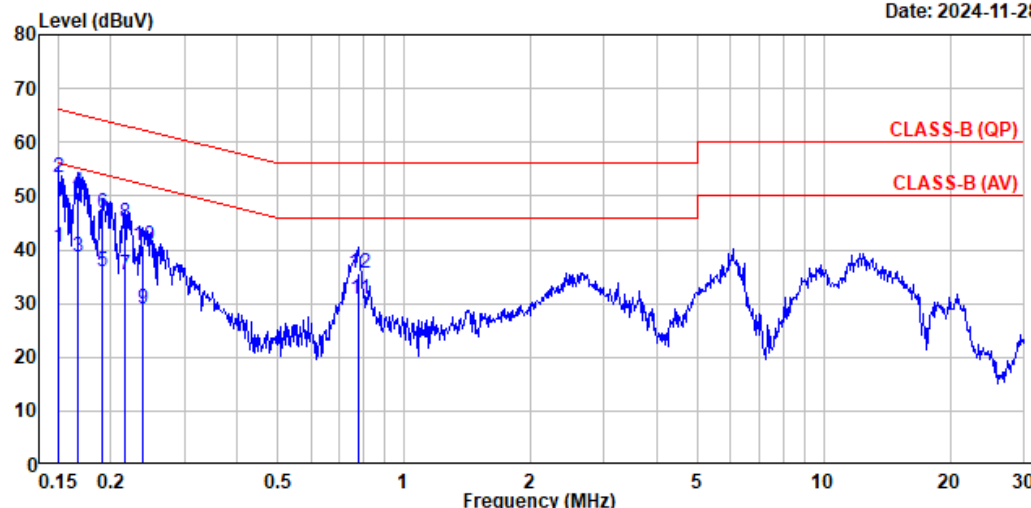
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Test Date	2024/11/28	Temp./Hum.	21°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Byron Wu
Test SKU	With INPAQ Antenna		

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Date: 2024-11-28



Site No.	: No.7 Shielded Room	Data No.	: 3
Instrument 1	: Receiver ESR(114)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: CLASS-B (QP)	Phase	: Line
Environment	: 21°C/52%	Test Rating	: 120ac/60Hz
EUT Model	: 16Z90TL	Engineer	: Byron Wu
Test Mode	: OPERATION		
	INPAQ		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.150	0.14	0.05	9.86	30.48	40.53	56.00	15.47	Average
2	0.150	0.14	0.05	9.86	43.43	53.48	66.00	12.52	QP
3	0.167	0.14	0.05	9.86	28.63	38.68	55.09	16.41	Average
4	0.167	0.14	0.05	9.86	40.81	50.86	65.09	14.23	QP
5	0.191	0.14	0.05	9.87	25.76	35.82	54.01	18.19	Average
6	0.191	0.14	0.05	9.87	36.82	46.88	64.01	17.13	QP
7	0.217	0.14	0.05	9.87	25.37	35.43	52.94	17.51	Average
8	0.217	0.14	0.05	9.87	35.05	45.11	62.94	17.83	QP
9	0.238	0.14	0.05	9.87	18.94	29.00	52.15	23.15	Average
10	0.238	0.14	0.05	9.87	30.55	40.61	62.15	21.54	QP
11	0.781	0.18	0.06	9.87	20.74	30.85	46.00	15.15	Average
12	0.781	0.18	0.06	9.87	25.60	35.71	56.00	20.29	QP

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

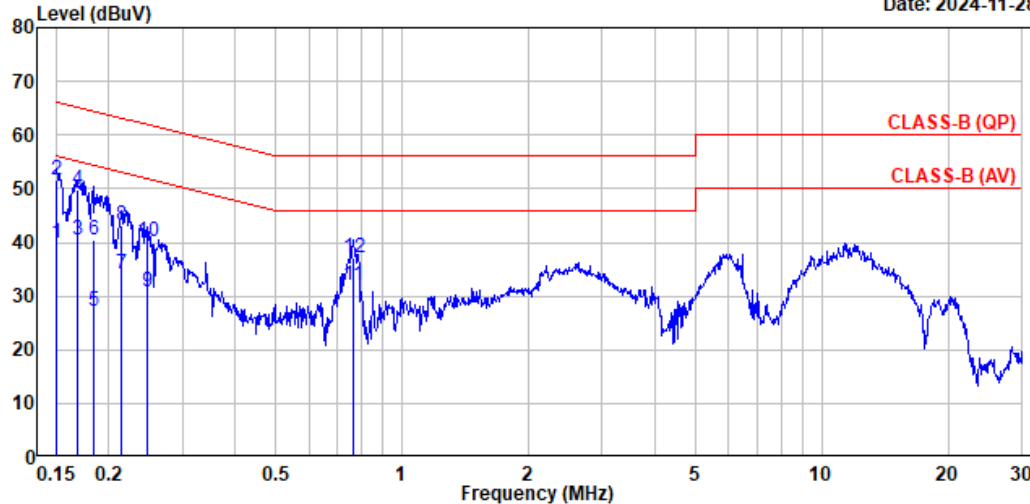
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Test Date	2024/11/28	Temp./Hum.	21°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Byron Wu
Test SKU	With LUXSHARE-ICT Antenna		

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Date: 2024-11-28



Site No.	: No.7 Shielded Room	Data No.	: 2
Instrument 1	: Receiver ESR(114)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: CLASS-B (QP)	Phase	: Neutral
Environment	: 21°C/52%	Test Rating	: 120ac/60Hz
EUT Model	: 16Z90TL	Engineer	: Byron Wu
Test Mode	: OPERATION		
	LUXSHARE		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.151	0.17	0.05	9.86	29.69	39.77	55.96	16.19	Average
2	0.151	0.17	0.05	9.86	41.45	51.53	65.96	14.43	QP
3	0.168	0.17	0.05	9.86	30.33	40.41	55.05	14.64	Average
4	0.168	0.17	0.05	9.86	39.82	49.90	65.05	15.15	QP
5	0.184	0.17	0.05	9.87	16.97	27.06	54.30	27.24	Average
6	0.184	0.17	0.05	9.87	30.25	40.34	64.30	23.96	QP
7	0.215	0.17	0.05	9.87	24.03	34.12	53.02	18.90	Average
8	0.215	0.17	0.05	9.87	33.15	43.24	63.02	19.78	QP
9	0.248	0.17	0.05	9.86	20.62	30.70	51.82	21.12	Average
10	0.248	0.17	0.05	9.86	30.08	40.16	61.82	21.66	QP
11	0.765	0.19	0.06	9.87	21.74	31.86	46.00	14.14	Average
12	0.765	0.19	0.06	9.87	27.15	37.27	56.00	18.73	QP

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

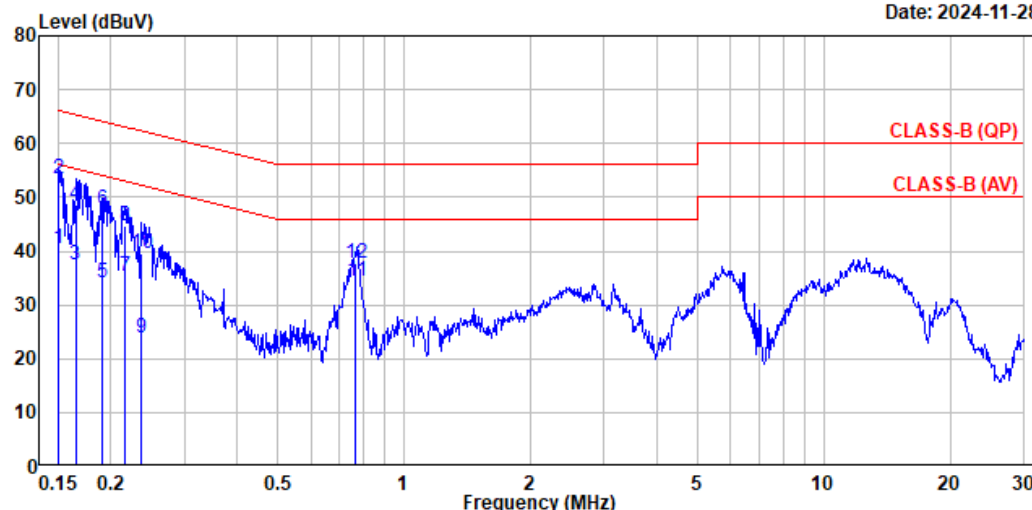
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Test Date	2024/11/28	Temp./Hum.	21°C/52%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Byron Wu
Test SKU	With LUXSHARE-ICT Antenna		

File: C:\test_data\Report\2024\C1M2411XXX\C1M2411088-C-RF\C1M2411088-C-RF_00001.EMI

Date: 2024-11-28



Site No.	: No.7 Shielded Room	Data No.	: 1
Instrument 1	: Receiver ESR(114)		
Instrument 2	: ESH2-Z5 (366)(A) CE-07 ESH3-Z2 (495)		
Limit	: CLASS-B (QP)	Phase	: Line
Environment	: 21°C/52%	Test Rating	: 120ac/60Hz
EUT Model	: 16Z90TL	Engineer	: Byron Wu
Test Mode	: OPERATION		
	LUXSHARE		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.150	0.14	0.05	9.86	30.42	40.47	56.00	15.53	Average
2	0.150	0.14	0.05	9.86	43.36	53.41	66.00	12.59	QP
3	0.165	0.14	0.05	9.86	27.39	37.44	55.21	17.77	Average
4	0.165	0.14	0.05	9.86	38.54	48.59	65.21	16.62	QP
5	0.191	0.14	0.05	9.87	24.18	34.24	53.97	19.73	Average
6	0.191	0.14	0.05	9.87	37.51	47.57	63.97	16.40	QP
7	0.216	0.14	0.05	9.87	25.16	35.22	52.98	17.76	Average
8	0.216	0.14	0.05	9.87	34.63	44.69	62.98	18.29	QP
9	0.237	0.14	0.05	9.87	13.69	23.75	52.19	28.44	Average
10	0.237	0.14	0.05	9.87	29.60	39.66	62.19	22.53	QP
11	0.769	0.18	0.06	9.87	24.36	34.47	46.00	11.53	Average
12	0.769	0.18	0.06	9.87	27.56	37.67	56.00	18.33	QP

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

A.2 RADIATED EMISSION

Test Date	2024/12/02~09	Temp./Hum.	23~24°C/57~58%
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.

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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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.500	21.98	1.31	26.51	38.12	34.91	40.00	5.09	Peak
159.500	16.34	2.97	25.97	35.77	29.12	43.50	14.38	Peak
378.000	21.16	5.28	26.34	31.16	31.26	46.00	14.74	Peak
680.500	24.67	7.20	27.40	27.41	31.88	46.00	14.12	Peak
867.000	25.79	8.48	27.12	26.99	34.14	46.00	11.86	Peak
963.500	26.73	9.08	26.86	27.84	36.79	54.00	17.21	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.500	21.98	1.31	26.51	38.49	35.27	40.00	4.73	Peak
159.000	16.36	2.97	25.98	35.98	29.34	43.50	14.16	Peak
378.000	21.16	5.28	26.34	31.75	31.86	46.00	14.14	Peak
708.000	24.78	7.36	27.39	28.10	32.85	46.00	13.15	Peak
865.500	25.78	8.46	27.12	27.67	34.79	46.00	11.21	Peak
991.000	27.01	9.22	26.78	26.83	36.29	54.00	17.71	Peak

● With LUXSHARE-ICT Antenna

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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.000	21.86	1.44	26.50	37.36	34.16	40.00	5.84	Peak
123.500	17.76	2.79	26.17	34.41	28.79	43.50	14.71	Peak
160.000	15.60	3.16	25.99	38.06	30.83	43.50	12.67	Peak
209.500	15.52	3.64	25.81	34.53	27.88	43.50	15.62	Peak
378.000	20.60	5.54	26.36	32.01	31.79	46.00	14.21	Peak
534.500	23.28	6.70	27.32	27.68	30.35	46.00	15.65	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.000	21.86	1.44	26.50	37.61	34.41	40.00	5.59	Peak
122.500	17.81	2.78	26.18	33.71	28.12	43.50	15.38	Peak
160.000	15.60	3.16	25.99	37.91	30.69	43.50	12.81	Peak
378.000	20.60	5.54	26.36	32.55	32.33	46.00	13.67	Peak
432.000	21.69	6.08	26.77	29.17	30.18	46.00	15.82	Peak
515.500	23.04	6.67	27.26	28.23	30.67	46.00	15.33	Peak

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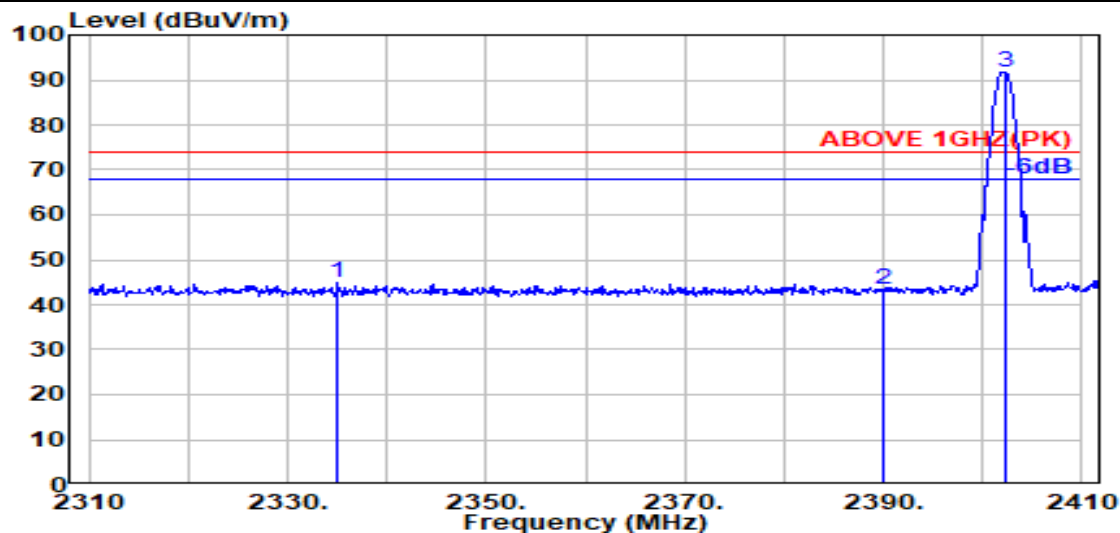
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A.2.1.3 Frequency Above 1 GHz to 10th harmonics

Band Edge:

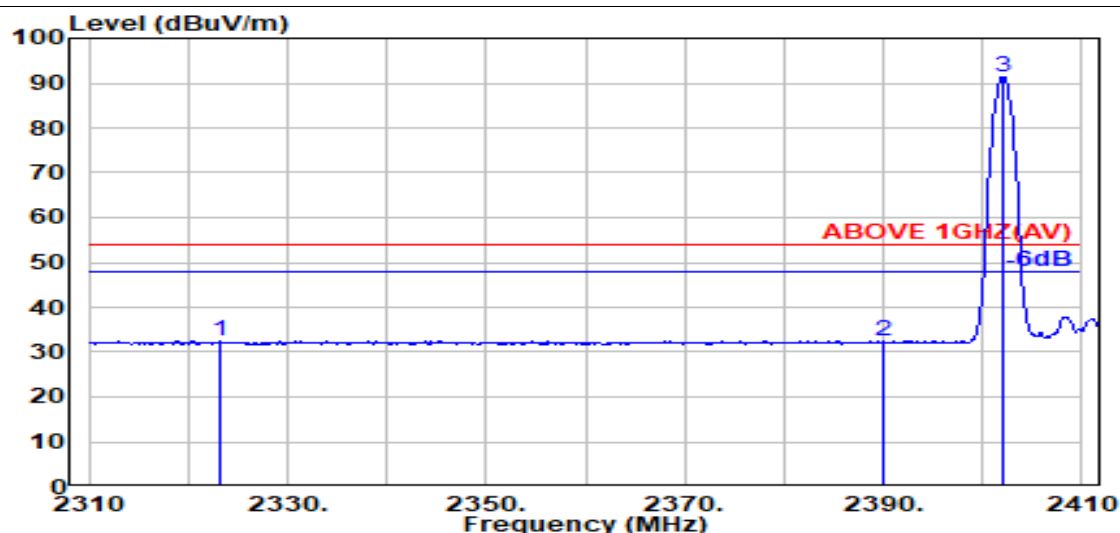
● With INPAQ Antenna

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
2335.100	28.38	5.95	34.49	44.98	44.83	74.00	29.17	Peak
2390.000	28.18	6.03	34.50	43.66	43.37	74.00	30.63	Peak
@ 2402.300	28.11	6.05	34.50	91.98	91.65	---	---	Peak



Antenna at Horizontal Polarization

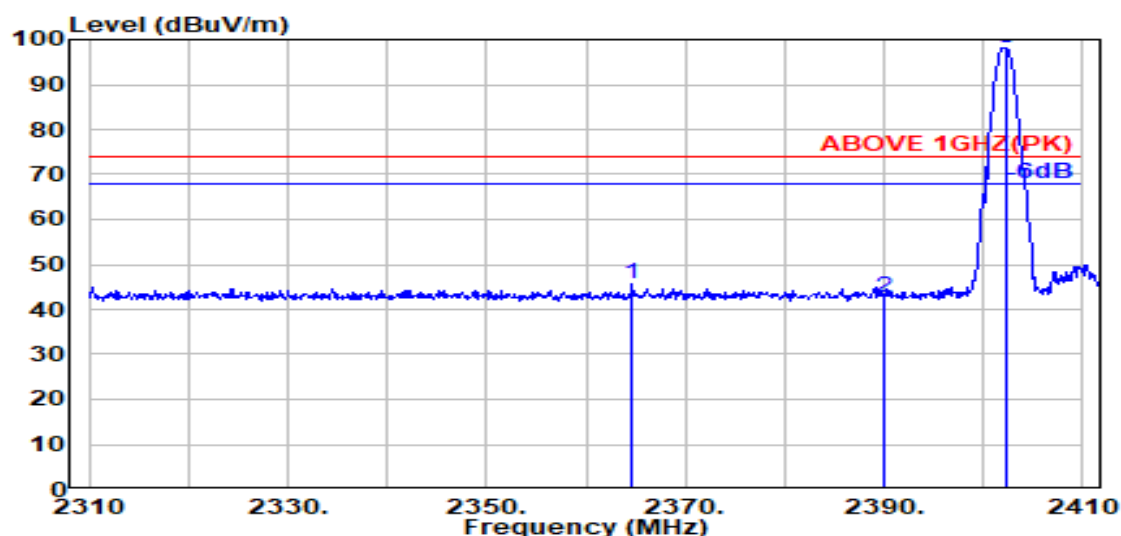
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2323.300	28.29	5.94	34.48	32.89	32.63	54.00	21.37	Average
2390.000	28.18	6.03	34.50	32.58	32.30	54.00	21.70	Average
@ 2402.100	28.11	6.05	34.50	91.75	91.41	---	---	Average

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

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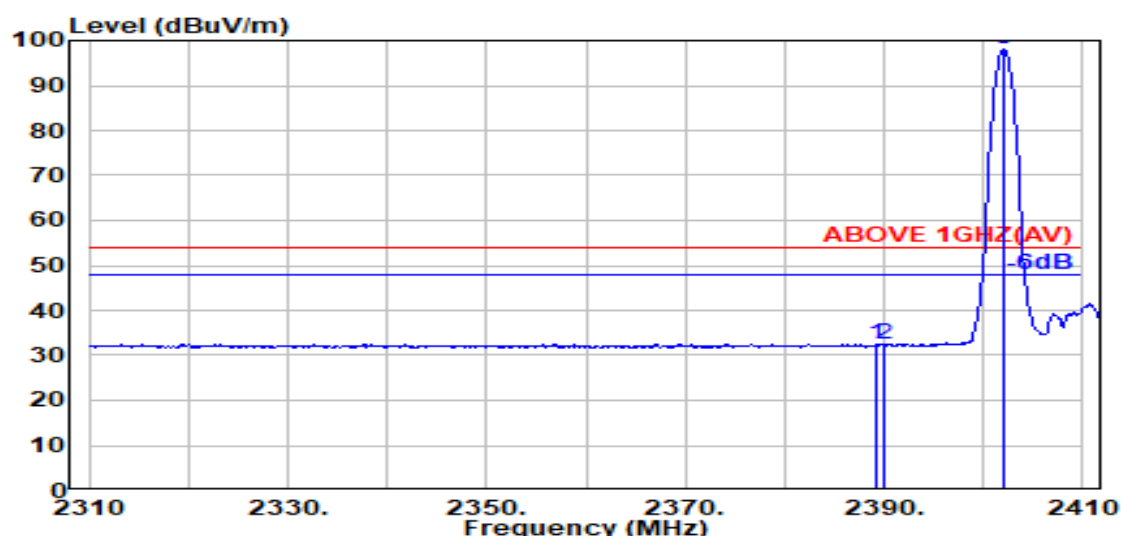
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Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

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
2364.700	28.38	6.00	34.49	45.66	45.55	74.00	28.45	Peak
2390.000	28.18	6.03	34.50	42.83	42.55	74.00	31.45	Peak
@ 2402.300	28.11	6.05	34.50	98.42	98.08	---	---	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
2389.300	28.18	6.03	34.50	32.92	32.64	54.00	21.36	Average
2390.000	28.18	6.03	34.50	32.71	32.43	54.00	21.57	Average
@ 2402.100	28.11	6.05	34.50	98.26	97.93	---	---	Average

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

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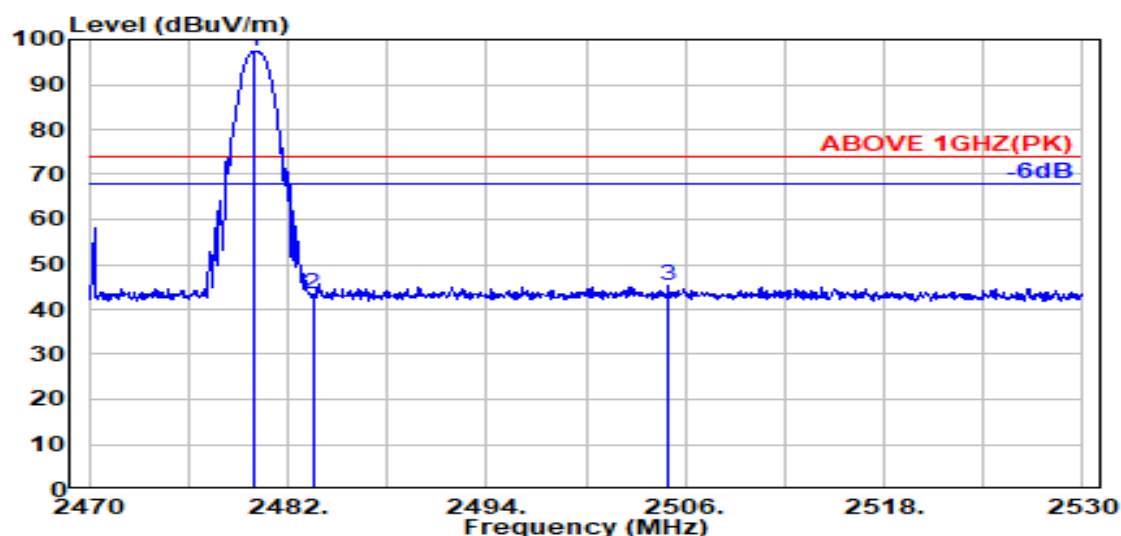
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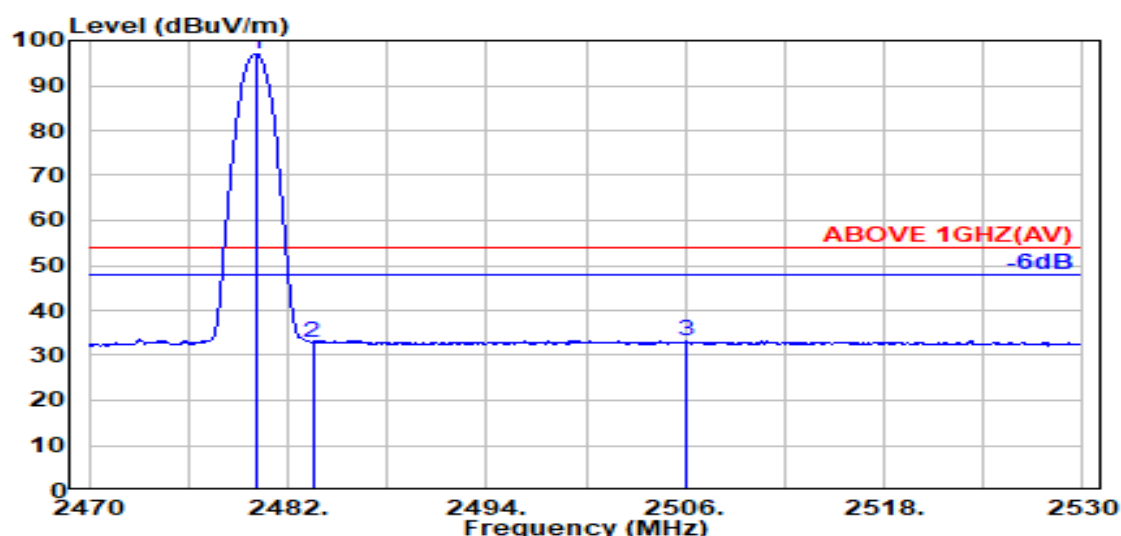
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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

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
@ 2479.950	28.46	6.16	34.52	97.11	97.22	---	---	Peak
2483.500	28.47	6.17	34.52	43.21	43.33	74.00	30.67	Peak
2504.950	28.53	6.20	34.52	44.97	45.18	74.00	28.82	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
@ 2480.050	28.46	6.16	34.52	97.03	97.13	---	---	Average
2483.500	28.47	6.17	34.52	32.74	32.86	54.00	21.14	Average
2506.000	28.54	6.20	34.52	33.13	33.34	54.00	20.66	Average

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

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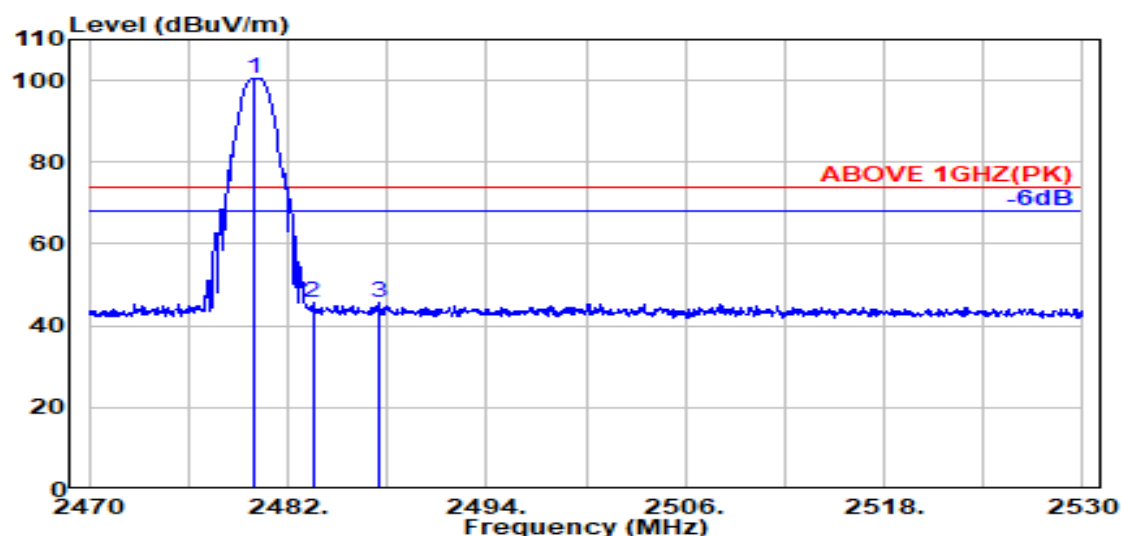
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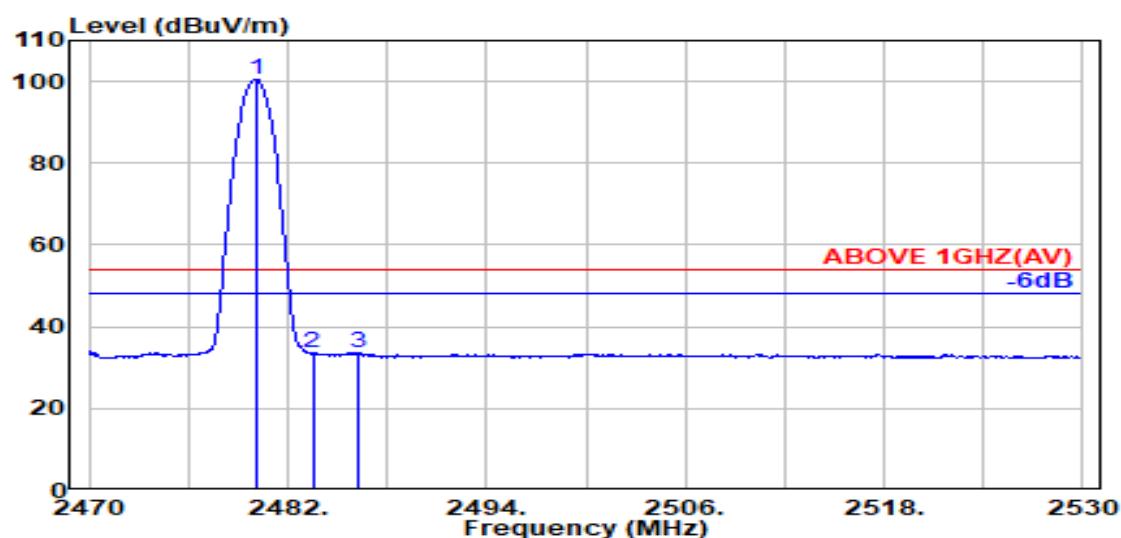
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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

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
@ 2479.950	28.46	6.16	34.52	100.53	100.64	---	---	Peak
2483.500	28.47	6.17	34.52	45.49	45.61	74.00	28.39	Peak
2487.450	28.48	6.17	34.52	45.62	45.75	74.00	28.25	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
@ 2480.050	28.46	6.16	34.52	100.36	100.47	---	---	Average
2483.500	28.47	6.17	34.52	33.50	33.62	54.00	20.38	Average
2486.200	28.47	6.17	34.52	33.52	33.65	54.00	20.35	Average

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

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Report Number: EM-F240611

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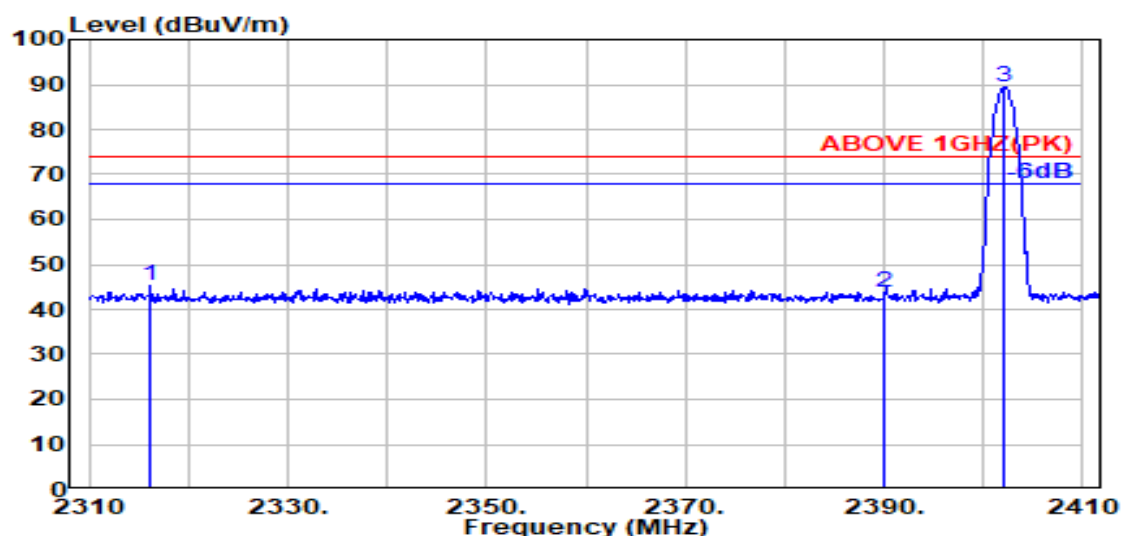
No. 491, Zhongfu Rd., Linkou Dist.,

New Taipei City244, Taiwan

Tel: +886 2 26099301

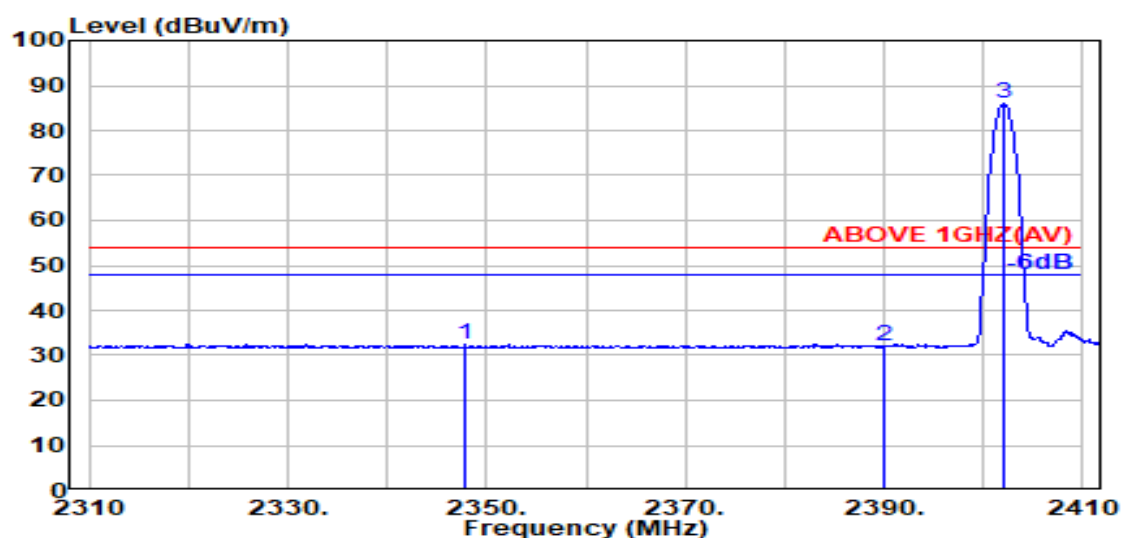
Fax: +886 2 26099303

Mode	8-DPSK	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
2316.200	28.23	5.93	34.48	45.53	45.20	74.00	28.80	Peak
2390.000	28.18	6.03	34.50	44.21	43.92	74.00	30.08	Peak
@ 2402.100	28.11	6.05	34.50	89.61	89.27	---	---	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
2347.900	28.48	5.97	34.49	32.43	32.40	54.00	21.60	Average
2390.000	28.18	6.03	34.50	32.37	32.09	54.00	21.91	Average
@ 2402.000	28.11	6.05	34.50	86.25	85.91	---	---	Average

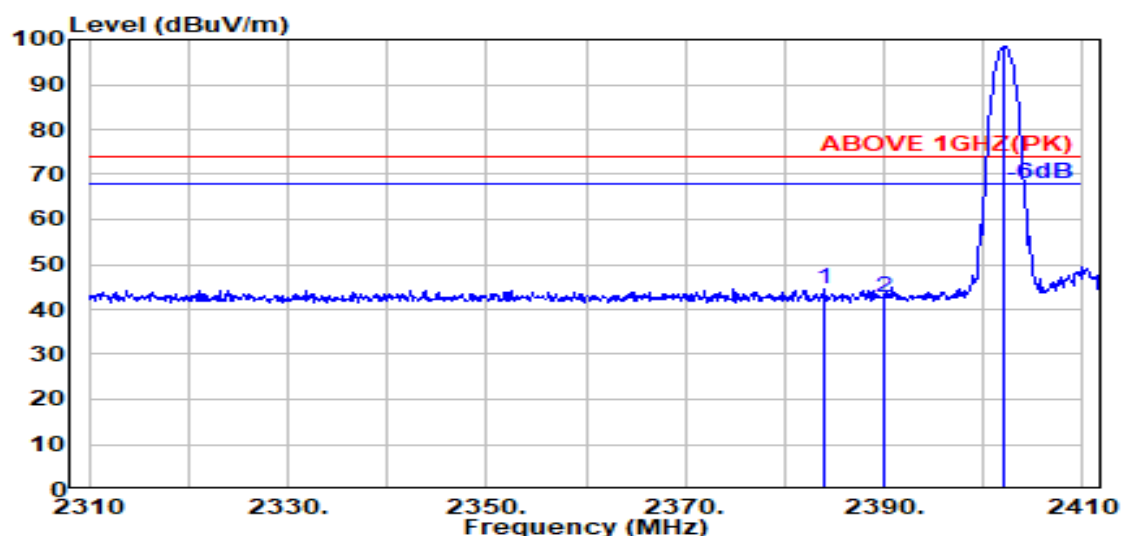
Remark: The "@" means fundamental frequency, it is ignored in this section.

File Number: C1M2411088

Report Number: EM-F240611

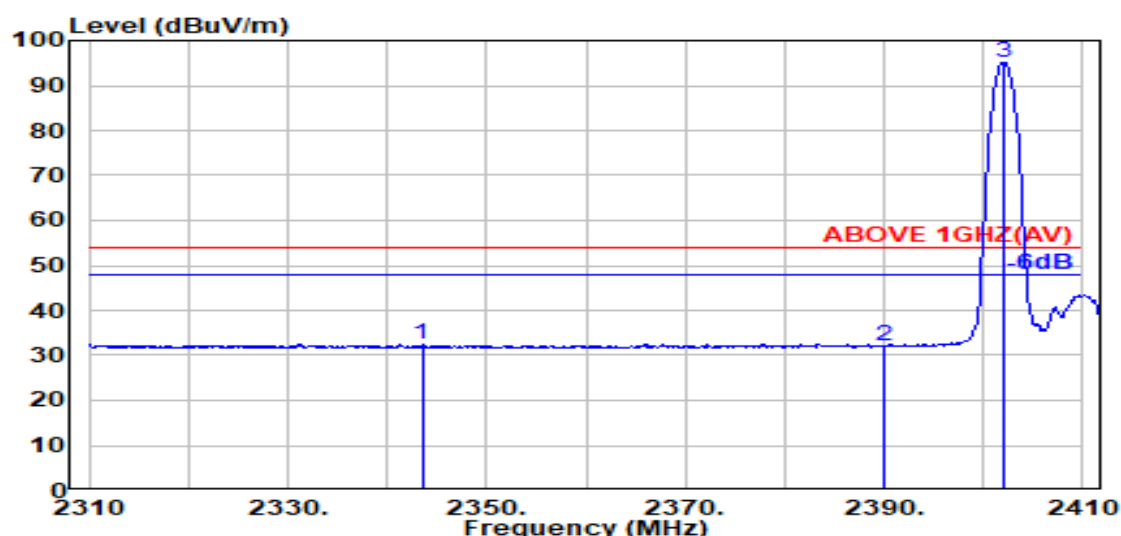
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Mode	8-DPSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

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
2384.000	28.23	6.03	34.50	44.66	44.42	74.00	29.58	Peak
2390.000	28.18	6.03	34.50	42.87	42.59	74.00	31.41	Peak
@ 2402.100	28.11	6.05	34.50	98.94	98.61	---	---	Peak



Antenna at Vertical Polarization

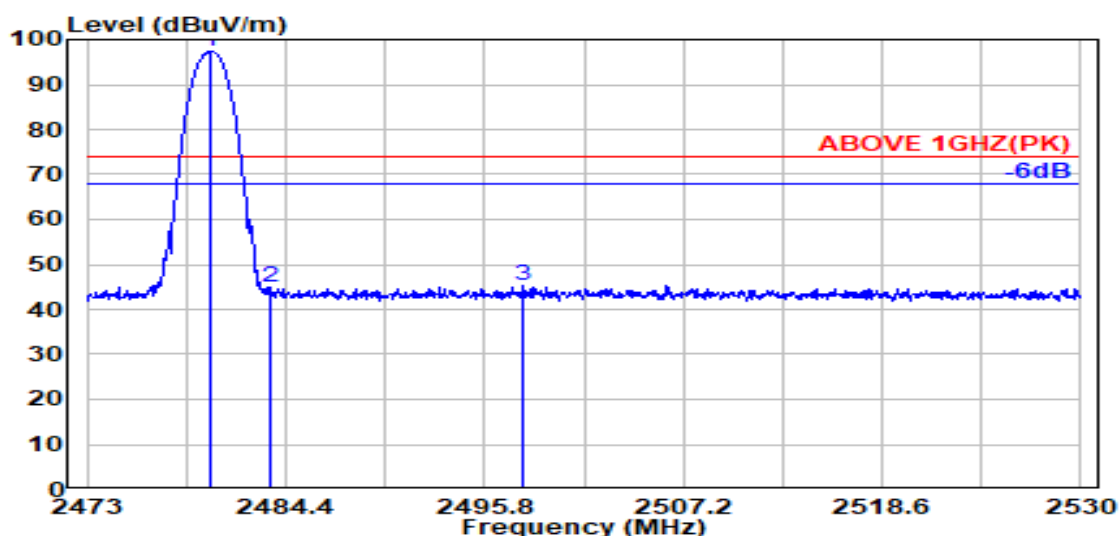
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2343.500	28.45	5.97	34.49	32.60	32.53	54.00	21.47	Average
2390.000	28.18	6.03	34.50	32.48	32.19	54.00	21.81	Average
@ 2402.000	28.11	6.05	34.50	95.62	95.28	---	---	Average

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

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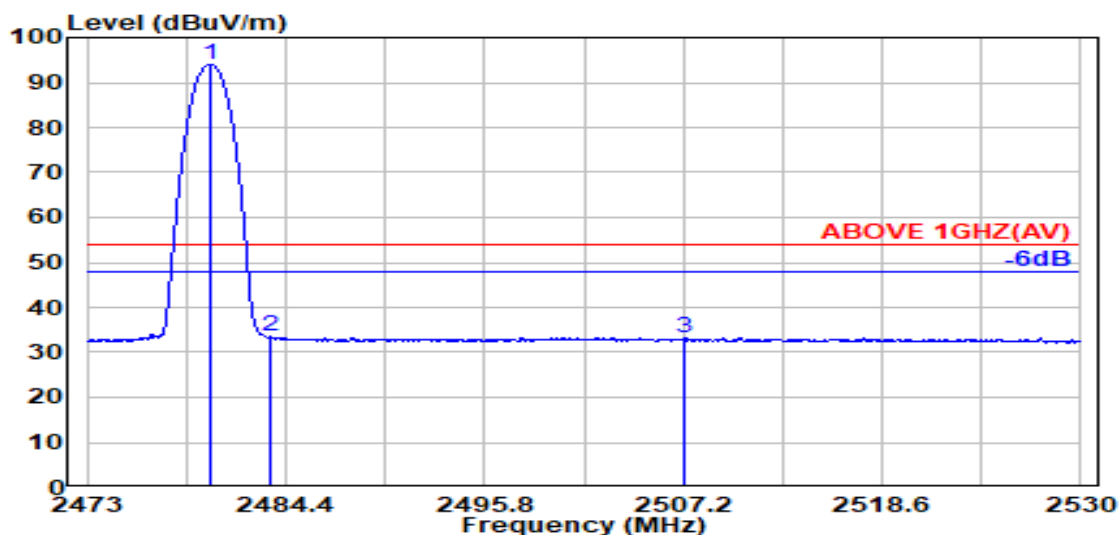
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

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
@ 2480.050	28.46	6.16	34.52	97.37	97.48	---	---	Peak
2483.500	28.47	6.17	34.52	44.69	44.80	74.00	29.20	Peak
2498.000	28.50	6.19	34.52	45.26	45.42	74.00	28.58	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
@ 2480.050	28.46	6.16	34.52	93.99	94.10	---	---	Average
2483.500	28.47	6.17	34.52	33.31	33.43	54.00	20.57	Average
2507.300	28.54	6.20	34.52	32.97	33.19	54.00	20.81	Average

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

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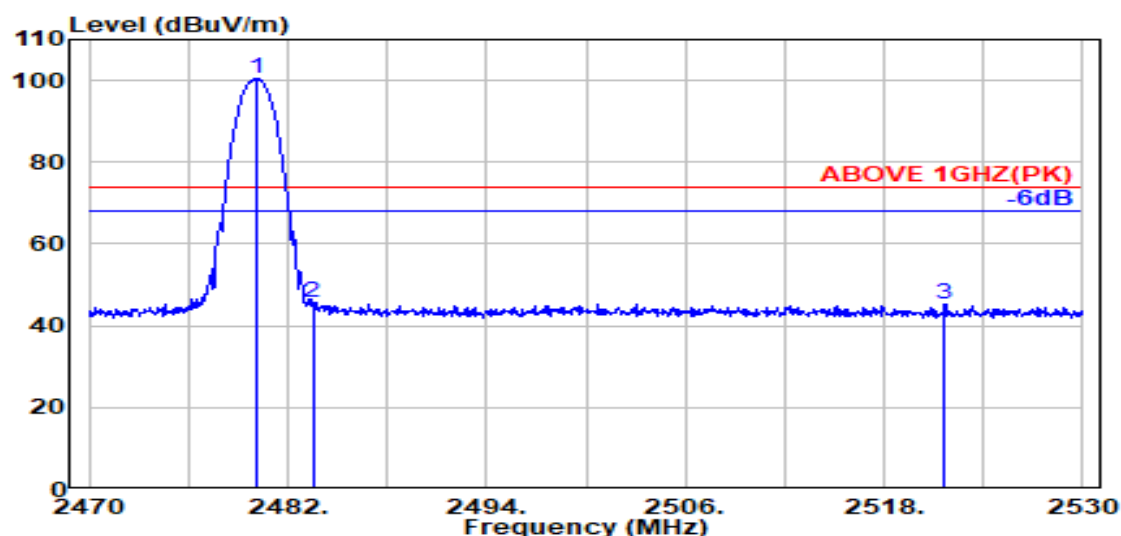
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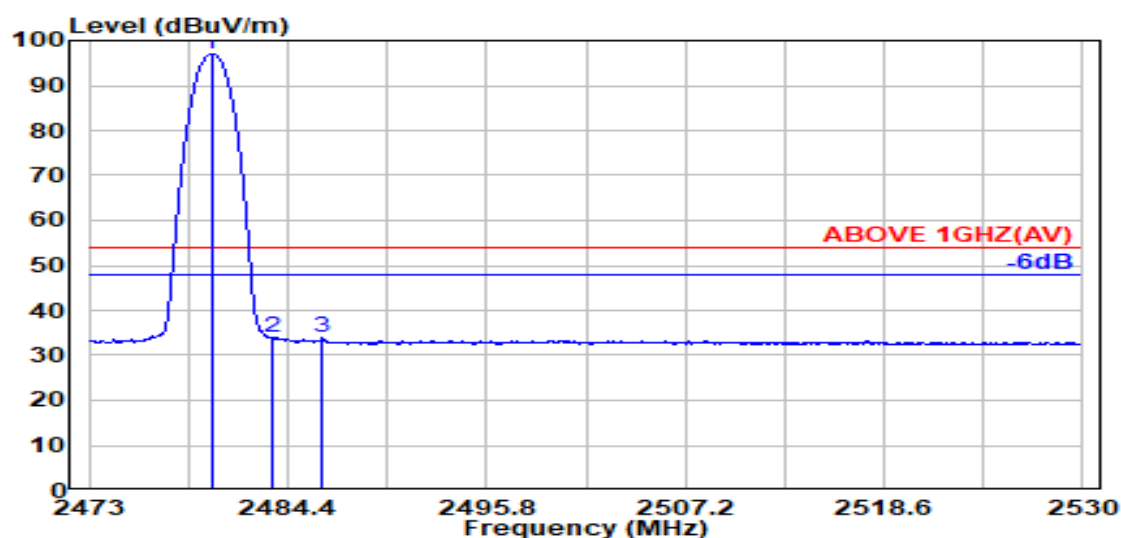
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.150	28.46	6.16	34.52	100.28	100.39	---	---	Peak
2483.500	28.47	6.17	34.52	45.49	45.61	74.00	28.39	Peak
2521.650	28.63	6.22	34.52	44.97	45.29	74.00	28.71	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
@ 2480.000	28.46	6.16	34.52	96.97	97.08	---	---	Average
2483.500	28.47	6.17	34.52	33.73	33.84	54.00	20.16	Average
2486.400	28.47	6.17	34.52	33.71	33.83	54.00	20.17	Average

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

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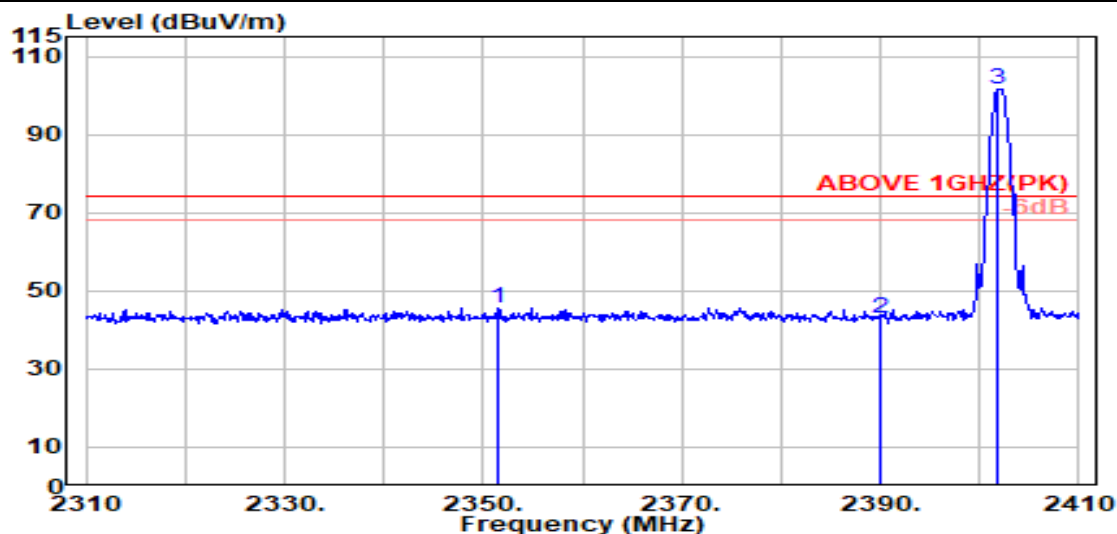
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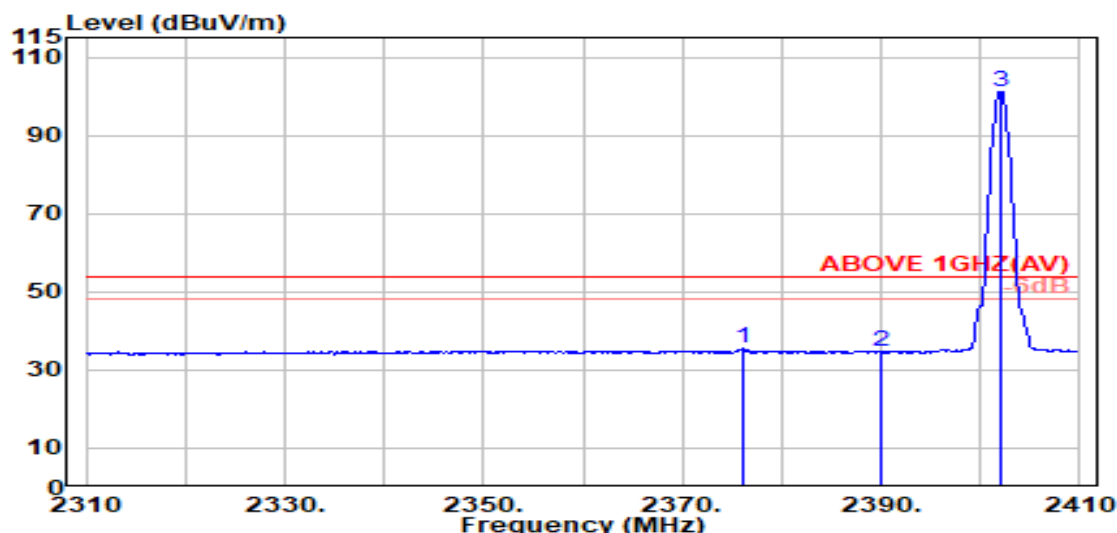
● With LUXSHARE-ICT Antenna

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
2351.600	28.29	5.67	39.88	51.65	45.74	74.00	28.26	Peak
2390.000	28.14	5.72	39.88	48.99	42.97	74.00	31.03	Peak
@ 2401.900	28.11	5.74	39.88	107.56	101.52	---	---	Peak



Antenna at Horizontal Polarization

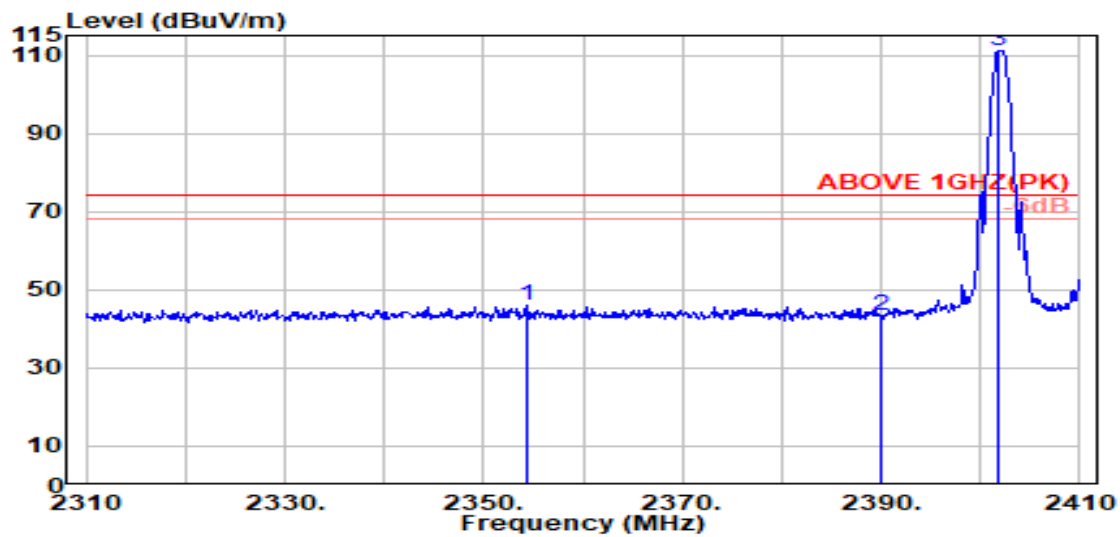
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2376.200	28.19	5.70	39.88	41.58	35.60	54.00	18.40	Average
2390.000	28.14	5.72	39.88	40.71	34.69	54.00	19.31	Average
@ 2402.000	28.11	5.74	39.88	107.34	101.31	---	---	Average

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

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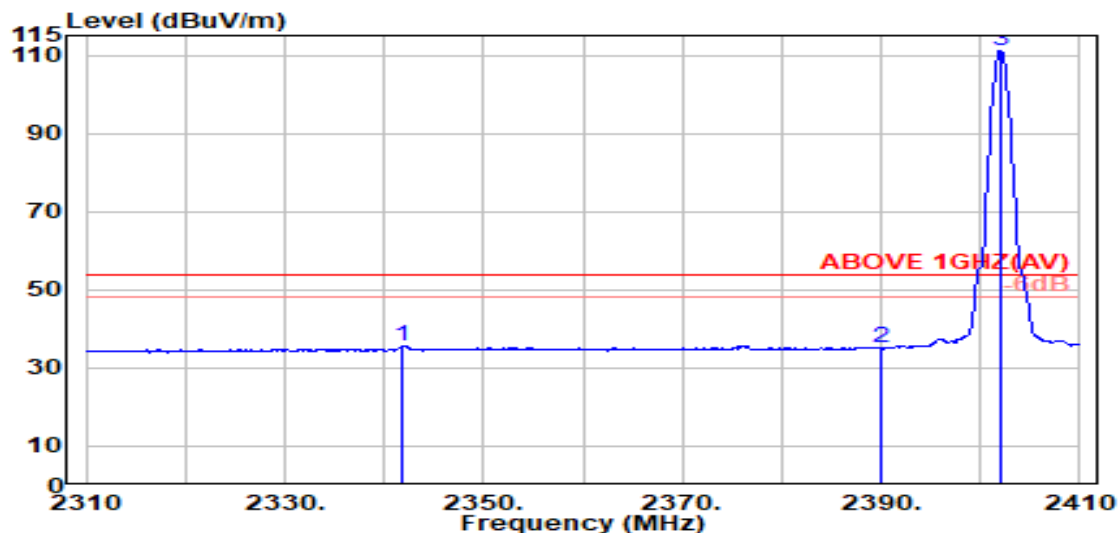
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Fax: +886 2 26099303

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 (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Detector
2354.300	28.28	5.68	39.88	52.04	46.12	74.00	27.88	Peak
2390.000	28.14	5.72	39.88	49.45	43.43	74.00	30.57	Peak
@ 2401.900	28.11	5.74	39.88	117.35	111.31	---	---	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
2341.900	28.25	5.66	39.88	41.55	35.58	54.00	18.42	Average
2390.000	28.14	5.72	39.88	41.11	35.09	54.00	18.91	Average
@ 2402.000	28.11	5.74	39.88	117.13	111.10	---	---	Average

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

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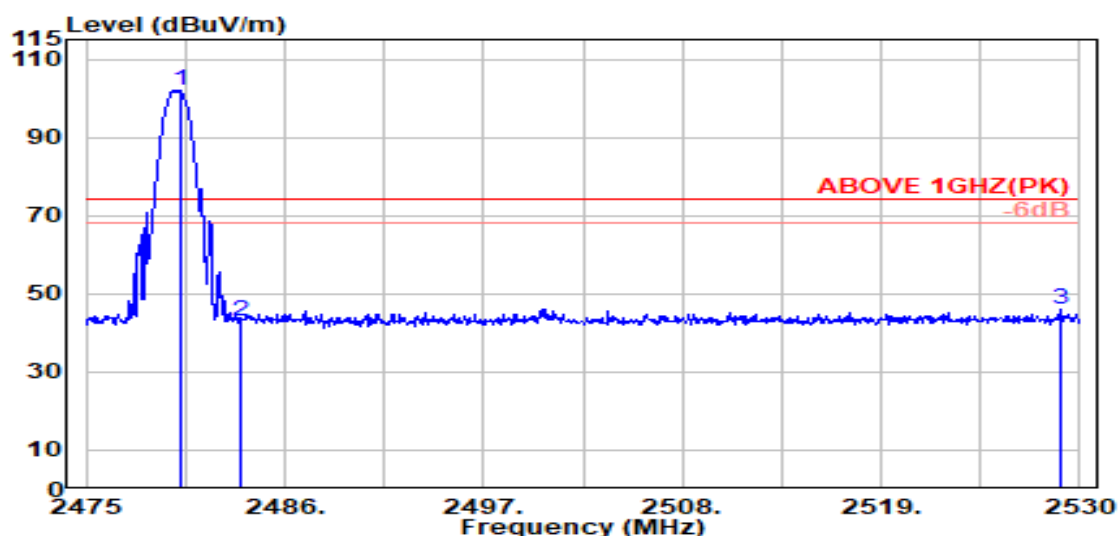
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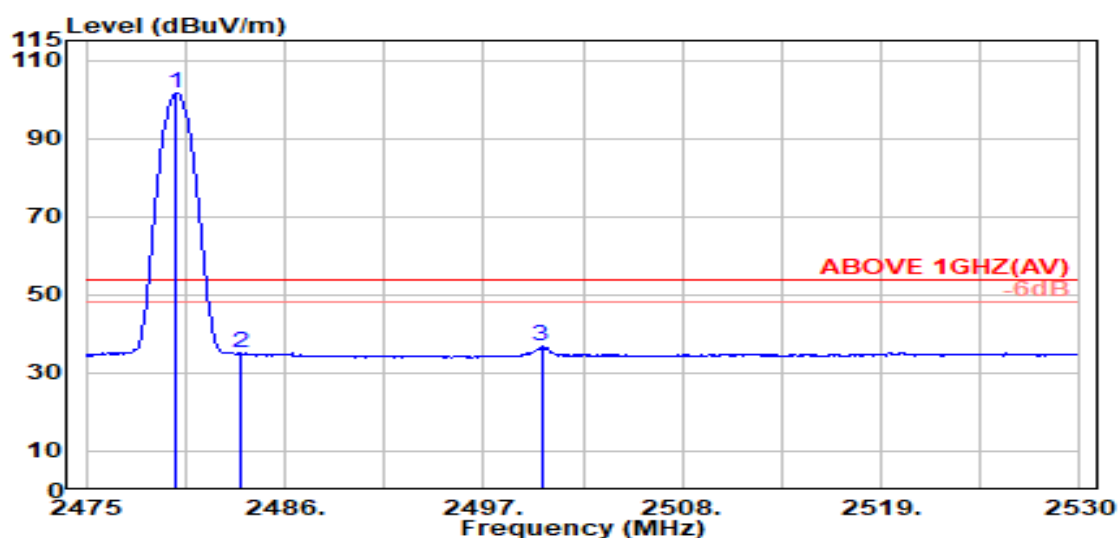
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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

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
@ 2480.200	28.36	5.83	39.87	107.50	101.82	---	---	Peak
2483.500	28.37	5.83	39.87	48.65	42.98	74.00	31.02	Peak
2528.900	28.57	5.89	39.88	51.34	45.92	74.00	28.08	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
@ 2480.000	28.36	5.83	39.87	107.26	101.58	---	---	Average
2483.500	28.37	5.83	39.87	40.63	34.96	54.00	19.04	Average
2500.200	28.40	5.85	39.87	42.31	36.69	54.00	17.31	Average

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

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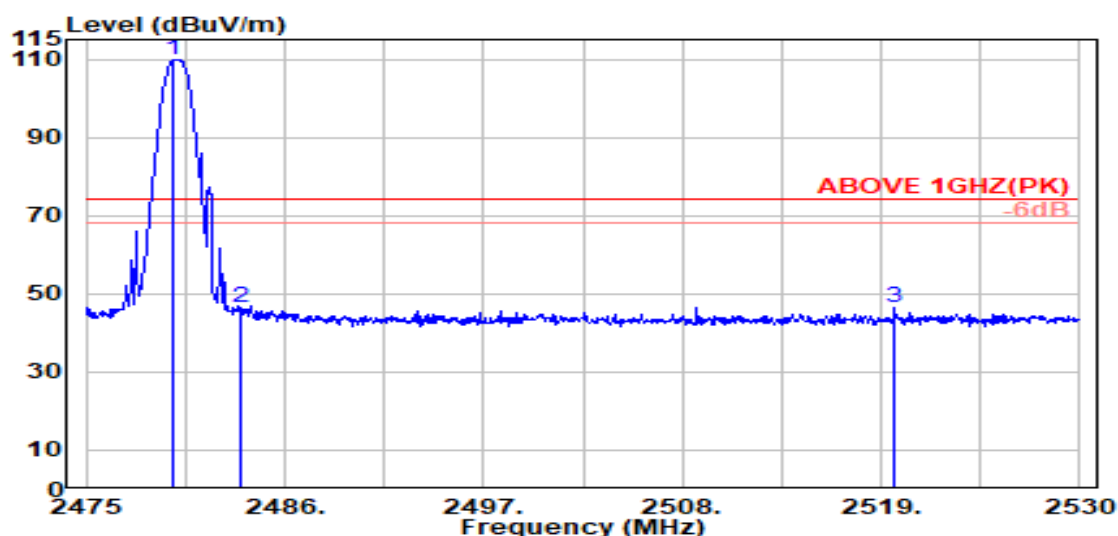
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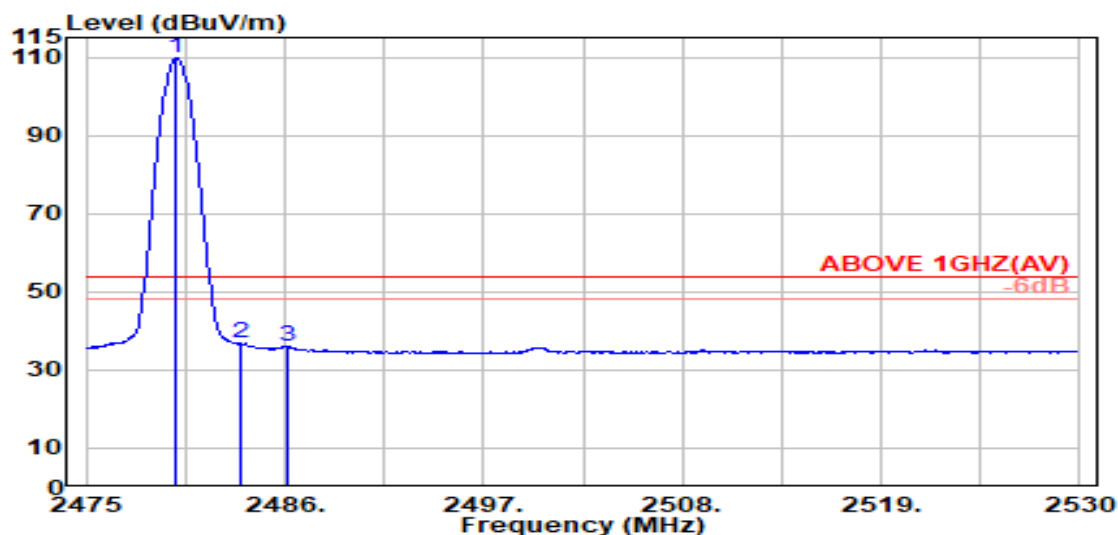
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Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

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
@ 2479.850	28.36	5.83	39.87	115.49	109.80	---	---	Peak
2483.500	28.37	5.83	39.87	52.11	46.43	74.00	27.57	Peak
2519.750	28.52	5.87	39.88	52.09	46.61	74.00	27.39	Peak

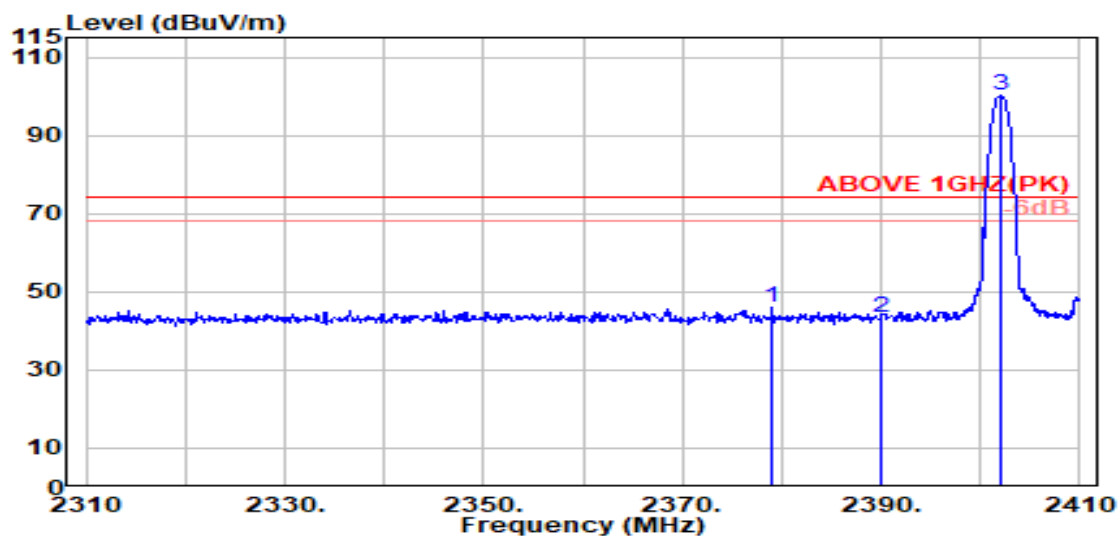


Antenna at Vertical Polarization

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
@ 2480.000	28.36	5.83	39.87	115.28	109.60	---	---	Average
2483.500	28.37	5.83	39.87	42.39	36.72	54.00	17.28	Average
2486.150	28.37	5.83	39.87	41.87	36.21	54.00	17.79	Average

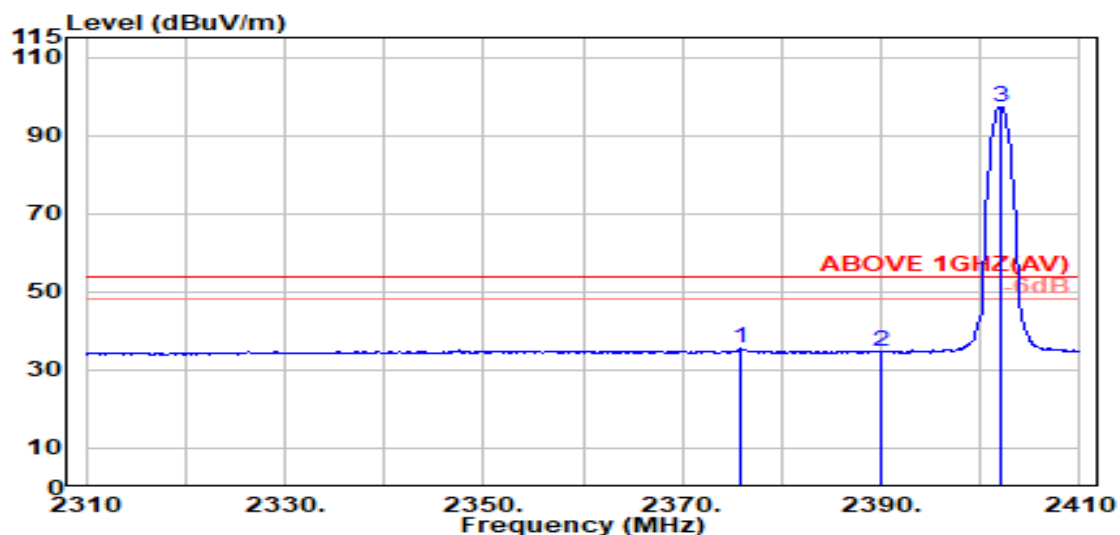
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2379.100	28.18	5.71	39.88	52.05	46.06	74.00	27.94	Peak
2390.000	28.14	5.72	39.88	49.56	43.54	74.00	30.46	Peak
@ 2402.000	28.11	5.74	39.88	106.21	100.17	---	---	Peak

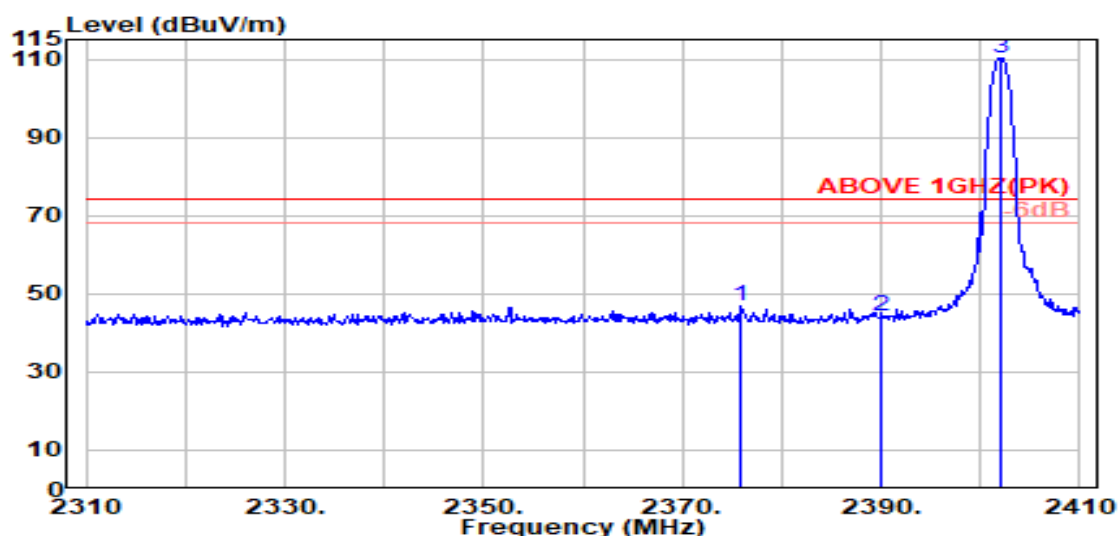


Antenna at Horizontal Polarization

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
2375.900	28.20	5.70	39.88	41.51	35.53	54.00	18.47	Average
2390.000	28.14	5.72	39.88	40.85	34.83	54.00	19.17	Average
@ 2402.000	28.11	5.74	39.88	103.30	97.27	---	---	Average

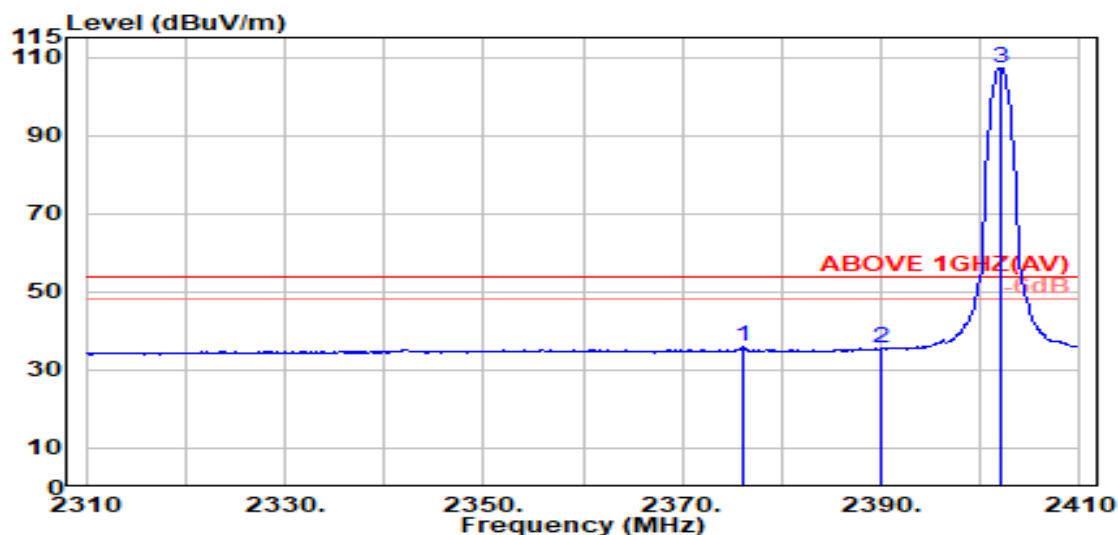
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2375.900	28.20	5.70	39.88	52.81	46.83	74.00	27.17	Peak
2390.000	28.14	5.72	39.88	50.22	44.21	74.00	29.79	Peak
@ 2402.000	28.11	5.74	39.88	116.24	110.21	---	---	Peak



Antenna at Vertical Polarization

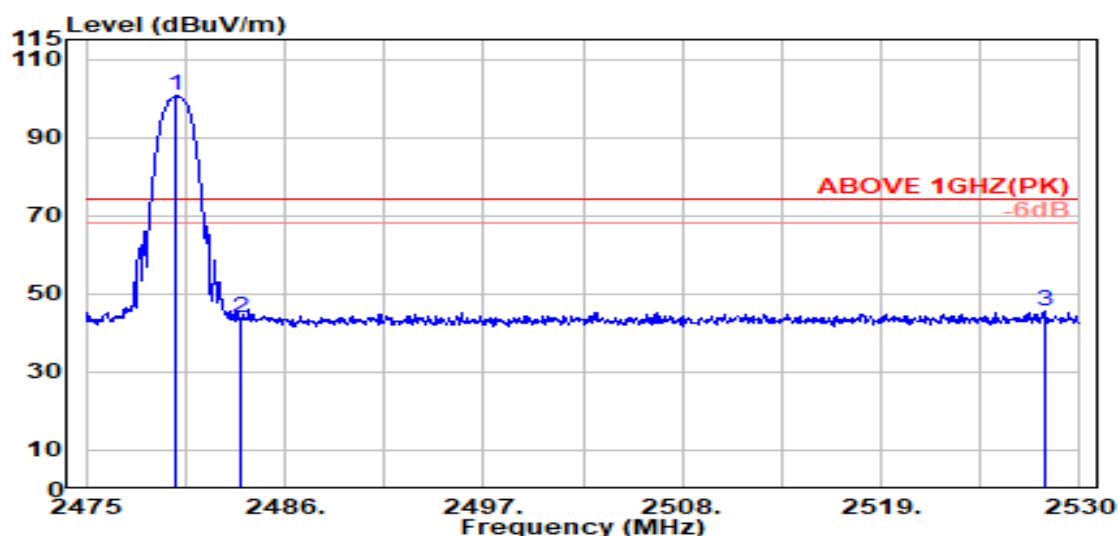
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2376.200	28.19	5.70	39.88	41.79	35.81	54.00	18.19	Average
2390.000	28.14	5.72	39.88	41.39	35.37	54.00	18.63	Average
@ 2402.000	28.11	5.74	39.88	113.43	107.40	---	---	Average

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

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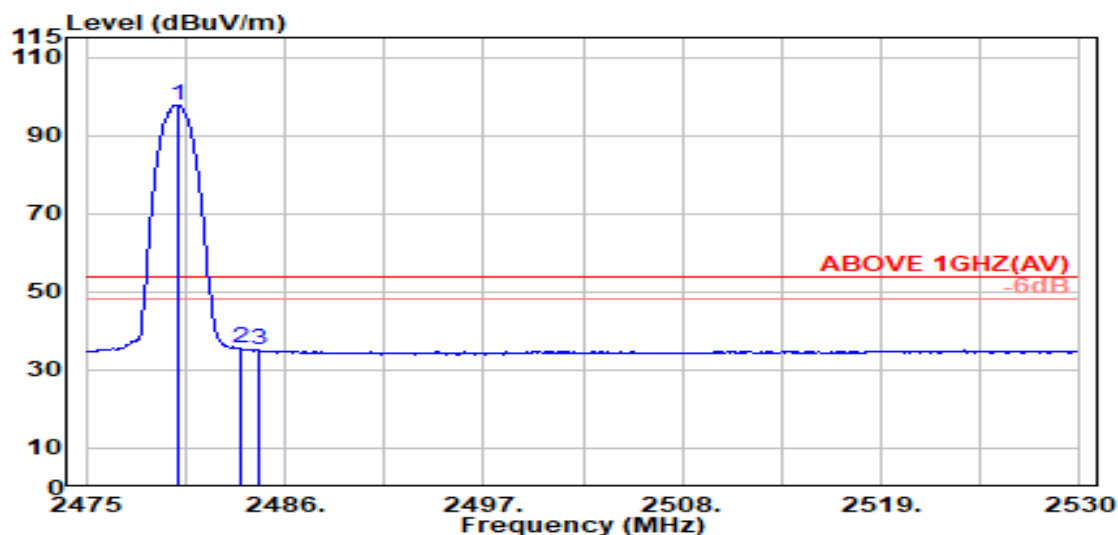
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

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
@ 2480.000	28.36	5.83	39.87	106.26	100.58	---	---	Peak
2483.500	28.37	5.83	39.87	49.41	43.74	74.00	30.26	Peak
2528.050	28.57	5.88	39.88	50.79	45.37	74.00	28.63	Peak



Antenna at Horizontal Polarization

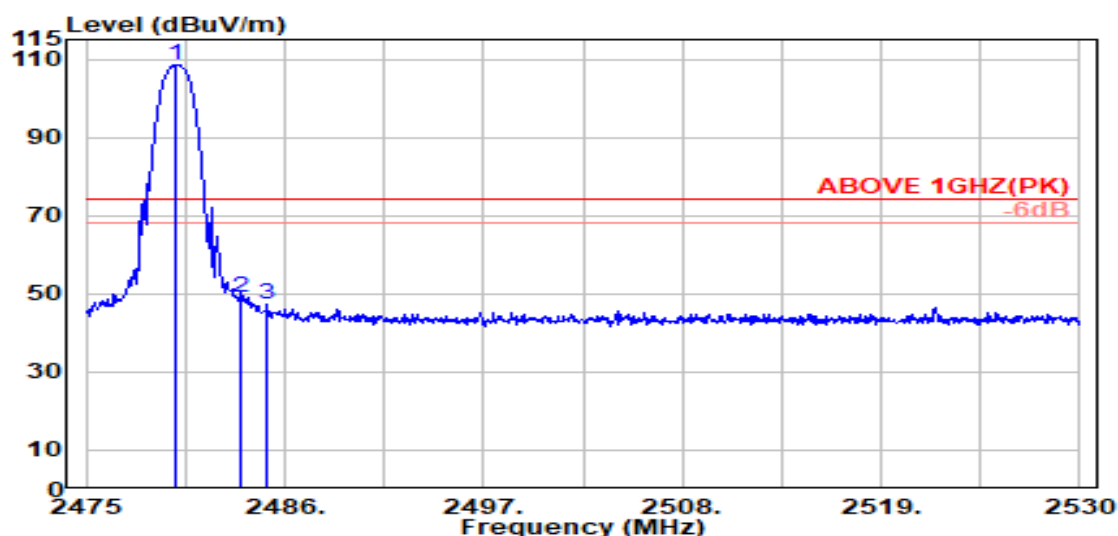
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.050	28.36	5.83	39.87	103.36	97.68	---	---	Average
2483.500	28.37	5.83	39.87	41.26	35.59	54.00	18.41	Average
2484.550	28.37	5.83	39.87	40.68	35.01	54.00	18.99	Average

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

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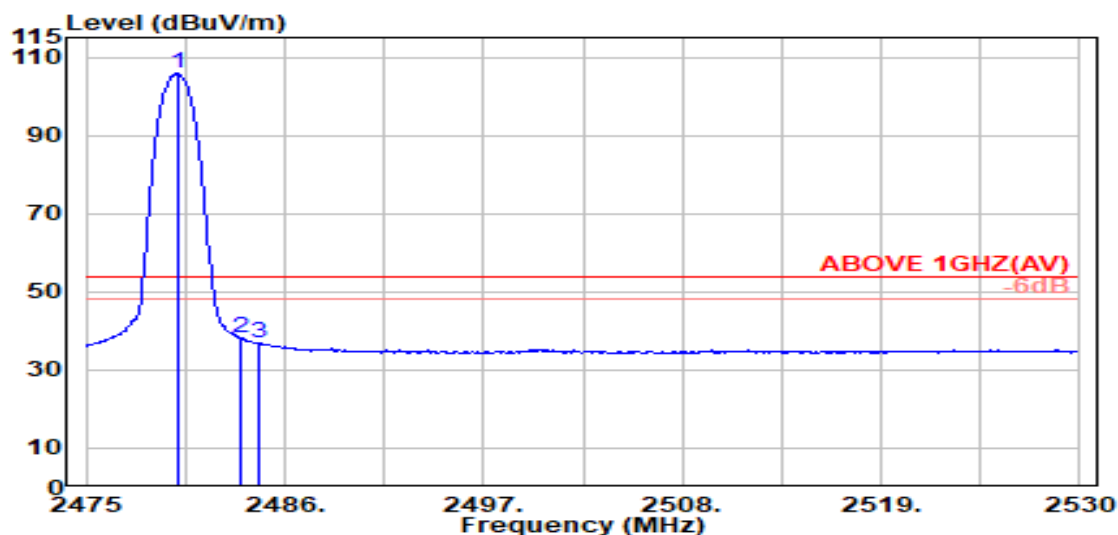
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Mode	8-DPSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

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
@ 2480.000	28.36	5.83	39.87	114.21	108.52	---	---	Peak
2483.500	28.37	5.83	39.87	54.91	49.23	74.00	24.77	Peak
2485.000	28.37	5.83	39.87	53.00	47.33	74.00	26.67	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
@ 2480.050	28.36	5.83	39.87	111.42	105.73	---	---	Average
2483.500	28.37	5.83	39.87	43.92	38.24	54.00	15.76	Average
2484.500	28.37	5.83	39.87	42.53	36.86	54.00	17.14	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.

● **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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.01	8.32	34.38	34.79	41.75	54.00	12.25	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.01	8.32	34.38	35.94	42.90	54.00	11.10	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.23	8.38	34.36	34.98	42.22	54.00	11.78	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.23	8.38	34.36	35.58	42.83	54.00	11.17	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.42	34.34	35.27	42.75	54.00	11.25	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.42	34.34	35.85	43.33	54.00	10.67	Peak

● **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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.13	39.30	40.07	41.81	54.00	12.19	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.13	39.30	40.78	42.52	54.00	11.48	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)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.16	8.16	39.26	39.99	42.06	54.00	11.94	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.16	8.16	39.26	41.58	43.65	54.00	10.35	Peak

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

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.20	39.23	40.38	42.59	54.00	11.41	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.20	39.23	41.15	43.36	54.00	10.64	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	2024/11/25	Temp./Hum.	23°C/52%
Cable Loss	0.50dB	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	0.833	0.800	0.555
	2441	0.894	0.840	0.596
	2480	0.897	0.829	0.598
8-DPSK	2402	1.346	1.225	0.897
	2441	1.347	1.232	0.898
	2480	1.346	1.225	0.897

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

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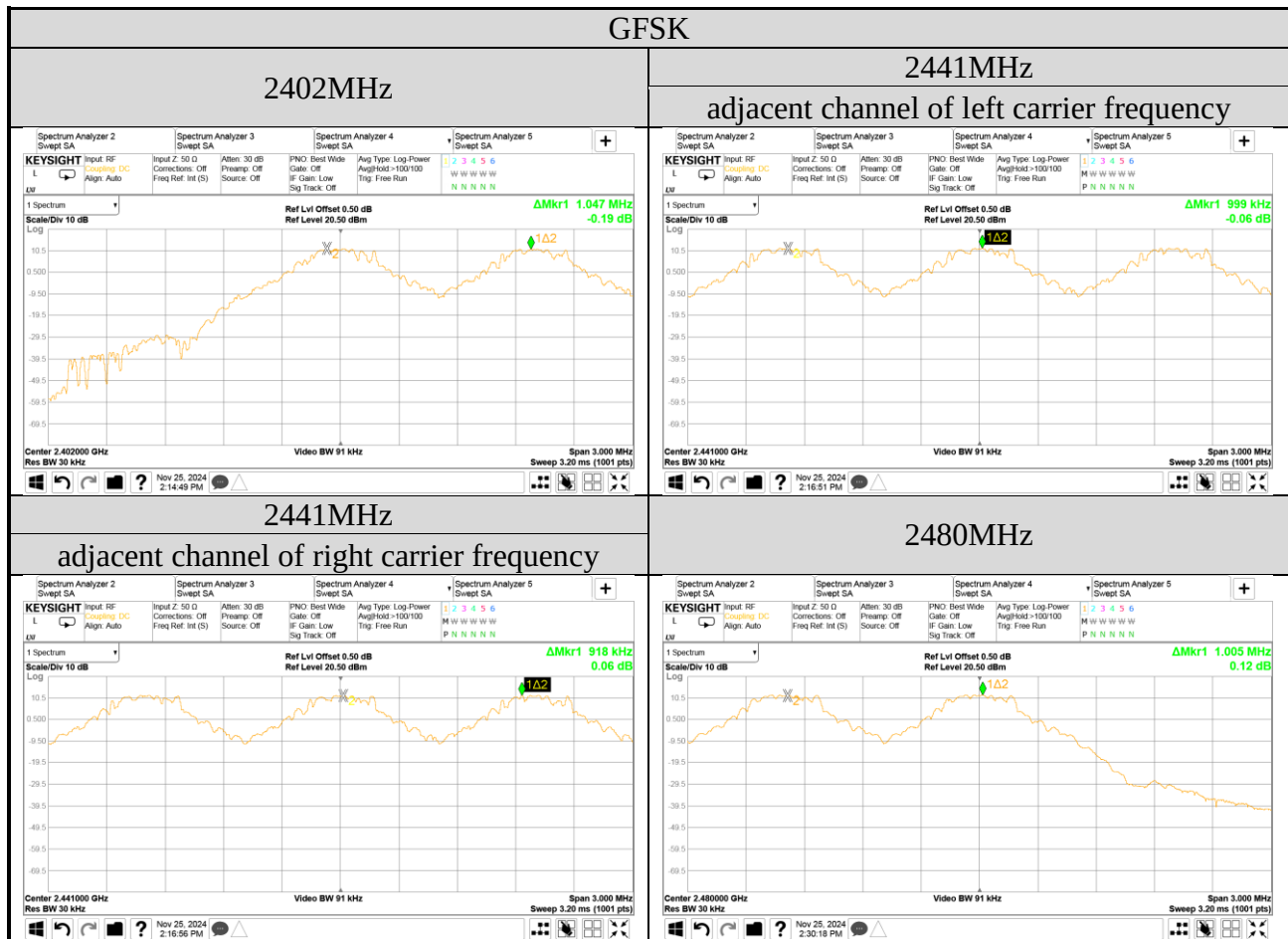
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A.3.2 Measurement Plots



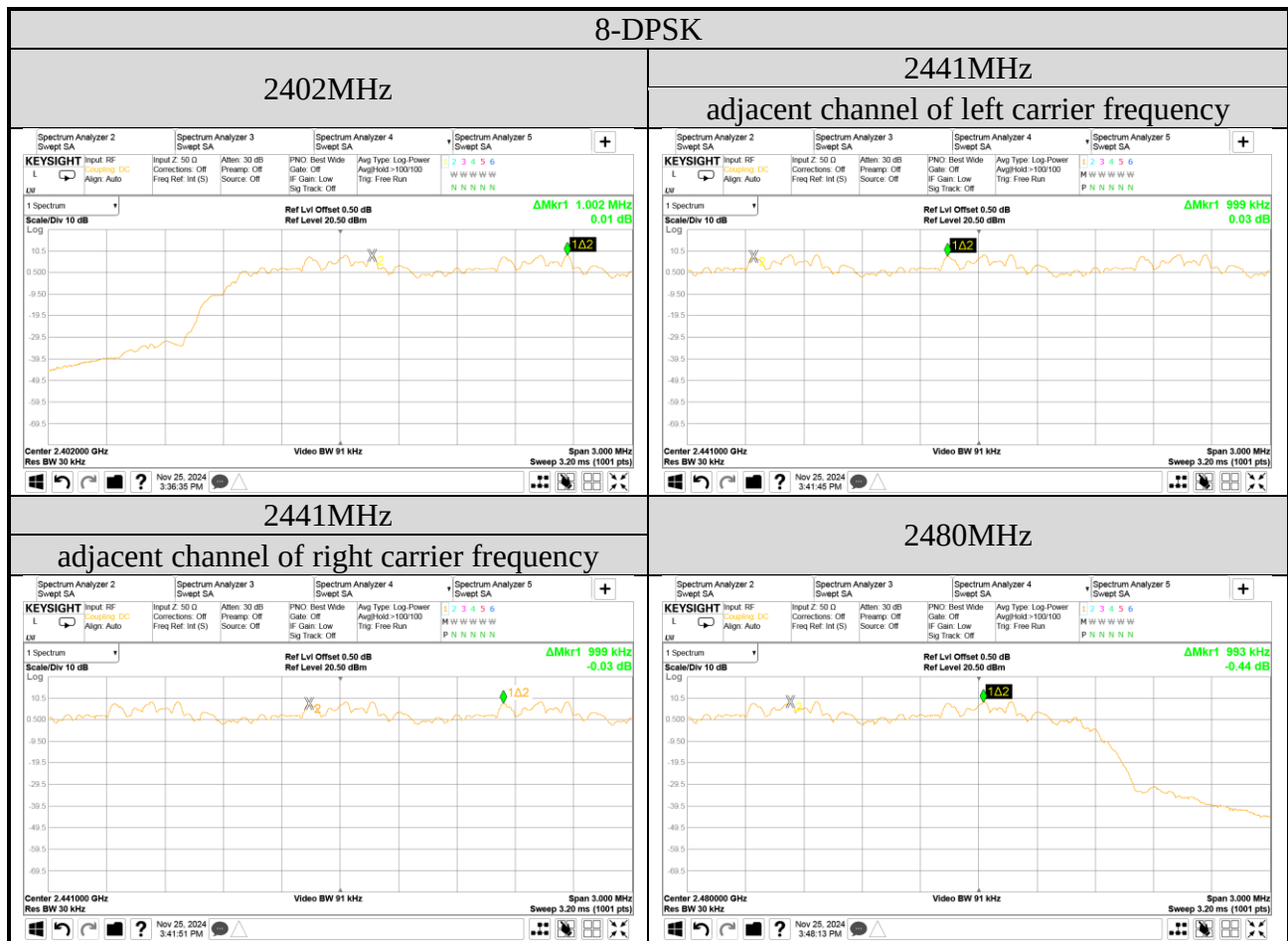
A.4 CARRIER FREQUENCY SEPARATION

Test Date	2024/11/25	Temp./Hum.	23°C/52%
Cable Loss	0.50dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



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A.5 TIME OF OCCUPANCY

Test Date	2024/11/25	Temp./Hum.	23°C/52%
Cable Loss	0.50dB	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	0.370	116.920	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.870	272.076	<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* 0.370 ms= 116.920 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* 2.870 ms= 272.076 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	0.370	116.920	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.880	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* 0.370 ms= 116.920 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)

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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	0.370	116.920	<400
		DH3	5	1.630	257.540	<400
		DH5	3	2.880	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 * 0.370 ms = 116.920 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)

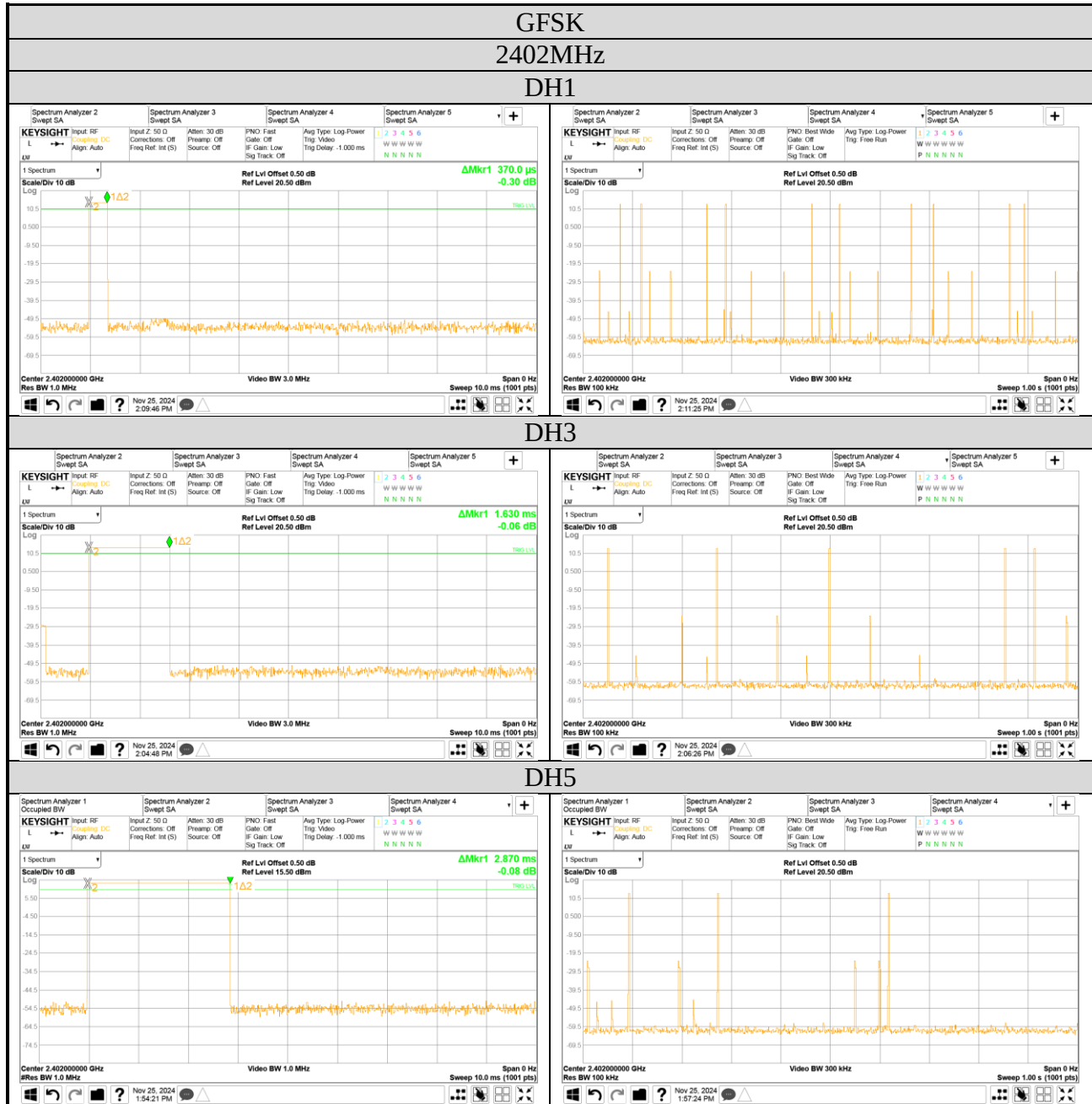
DH5 Mode

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)

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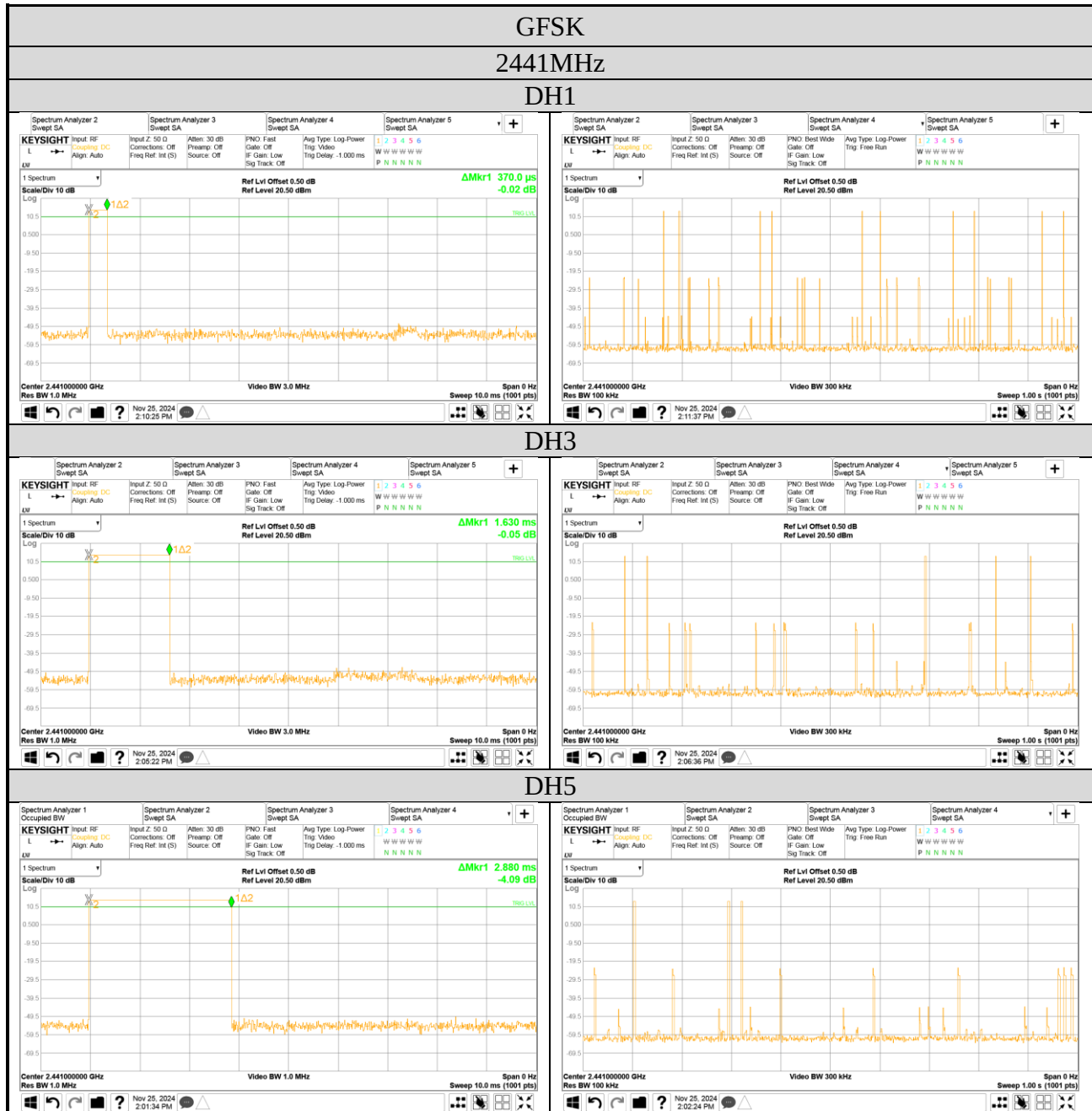
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● Measurement Plots

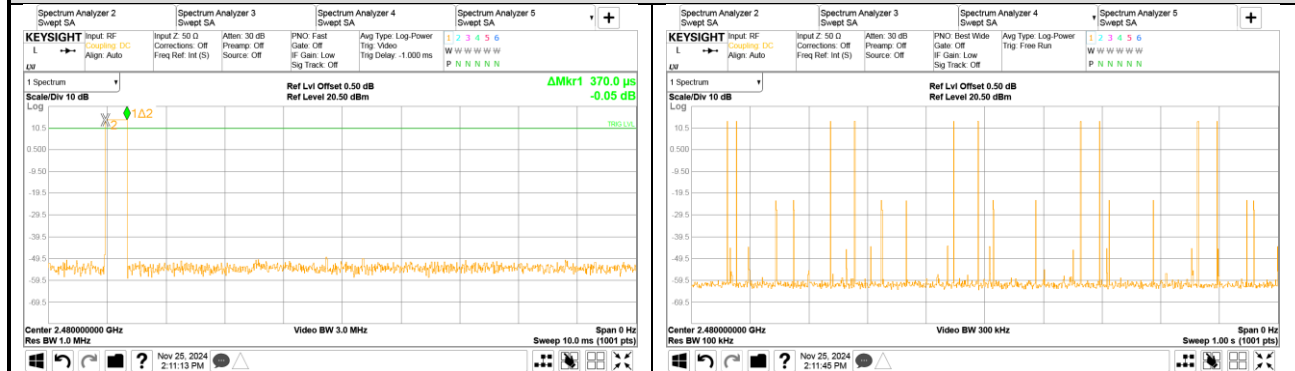


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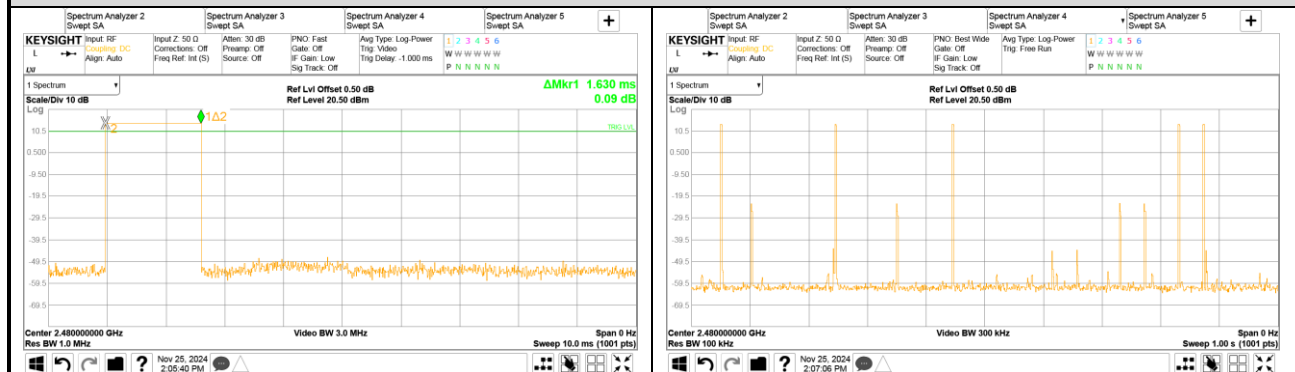
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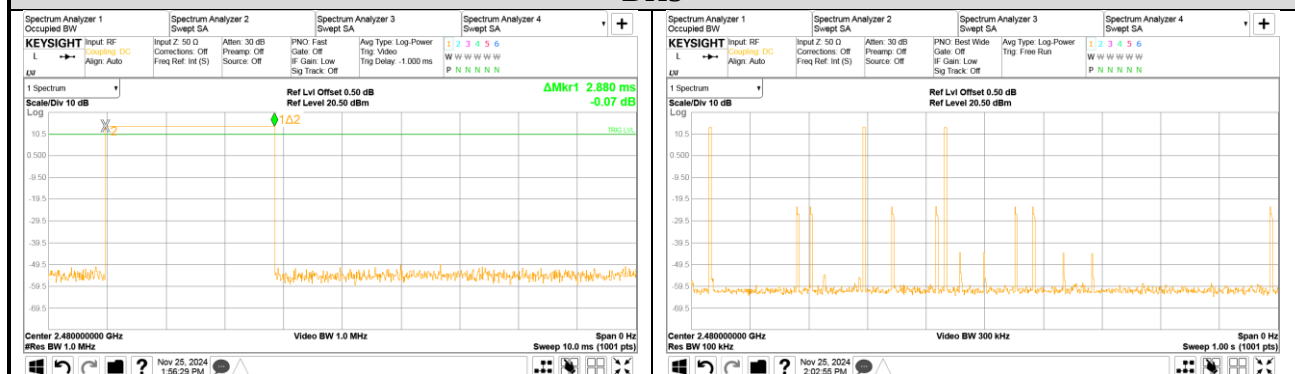
GFSK 2480MHz DH1



DH3



DH5



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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	0.380	120.080	<400
		3DH3	5	1.630	257.540	<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 * 0.380 ms = 120.080 ms (<400ms)**

3DH3 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)**

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	0.380	120.080	<400
		3DH3	5	1.630	257.540	<400
		3DH5	3	2.880	273.024	<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 * 0.380 ms = 120.080 ms (<400ms)**

3DH3 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)**

3DH5 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)**

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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	0.380	120.080	<400
		3DH3	5	1.630	257.540	<400
		3DH5	3	2.880	273.024	<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* **0.380** ms= **120.080** ms (<400ms)

3DH3 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)

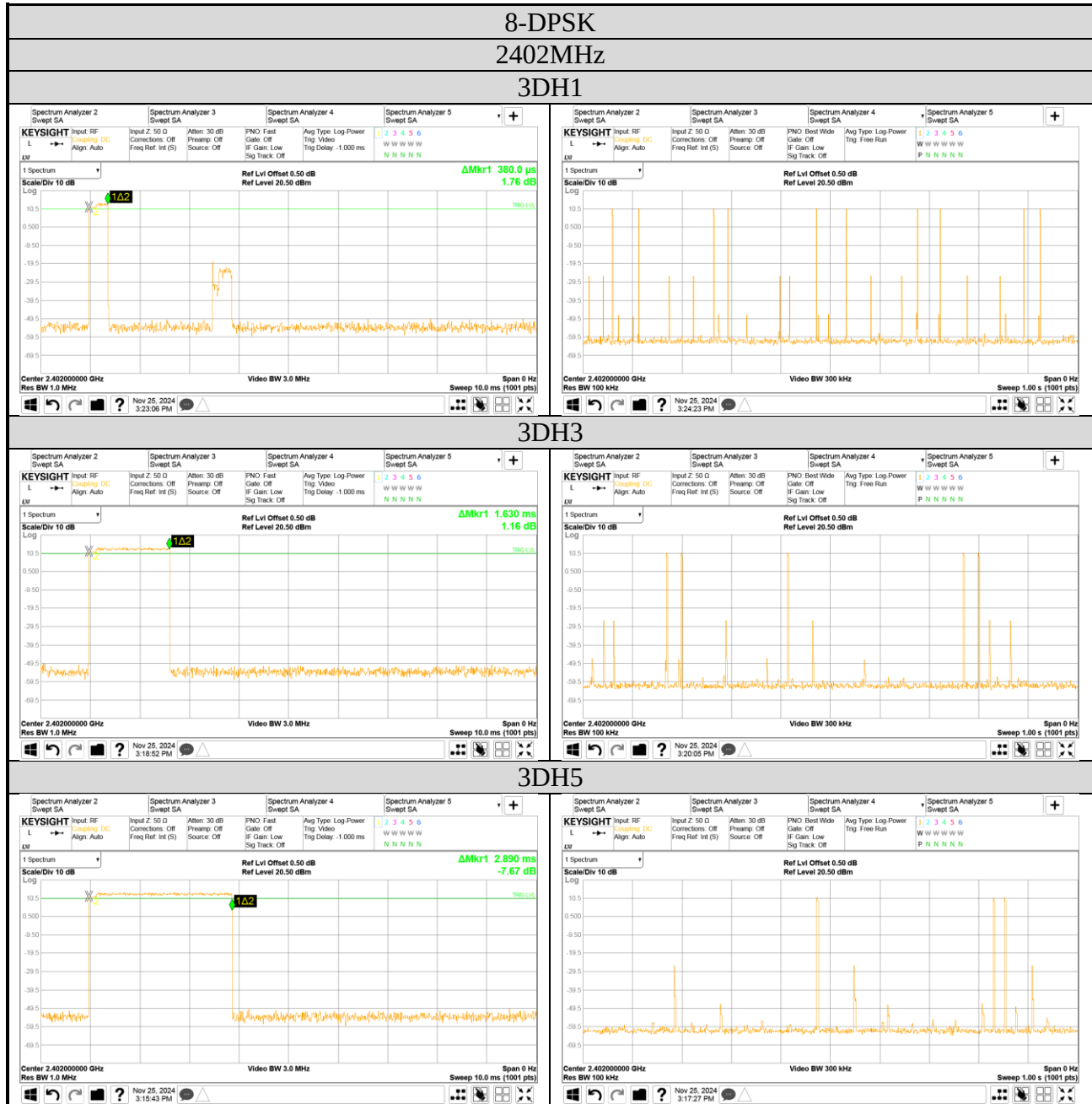
3DH5 Mode

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)

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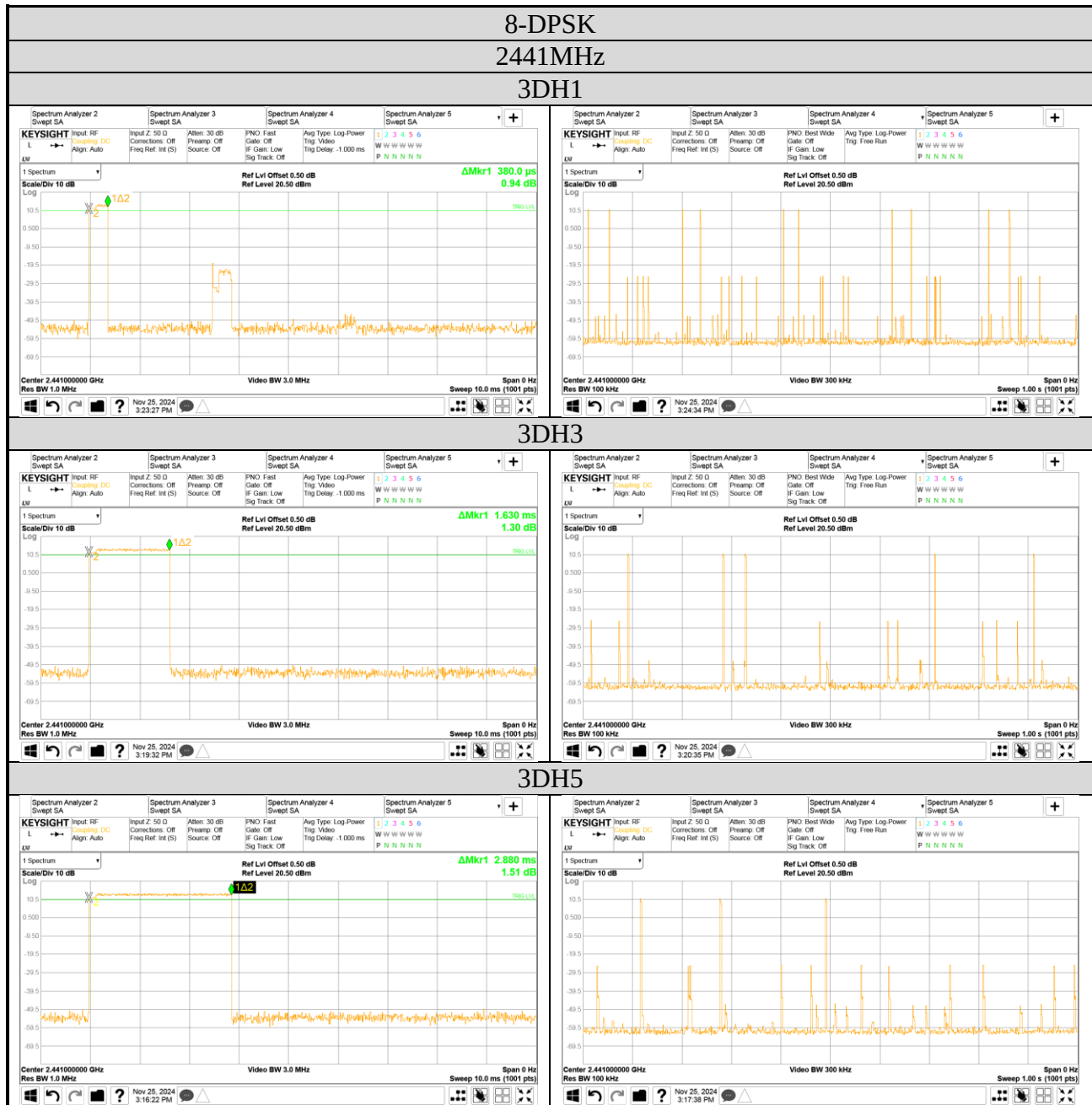
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● Measurement Plots



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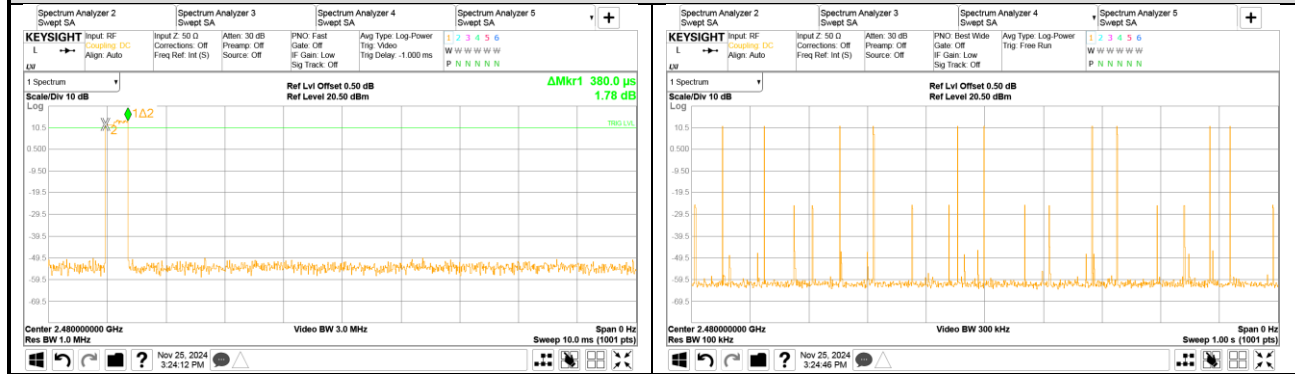
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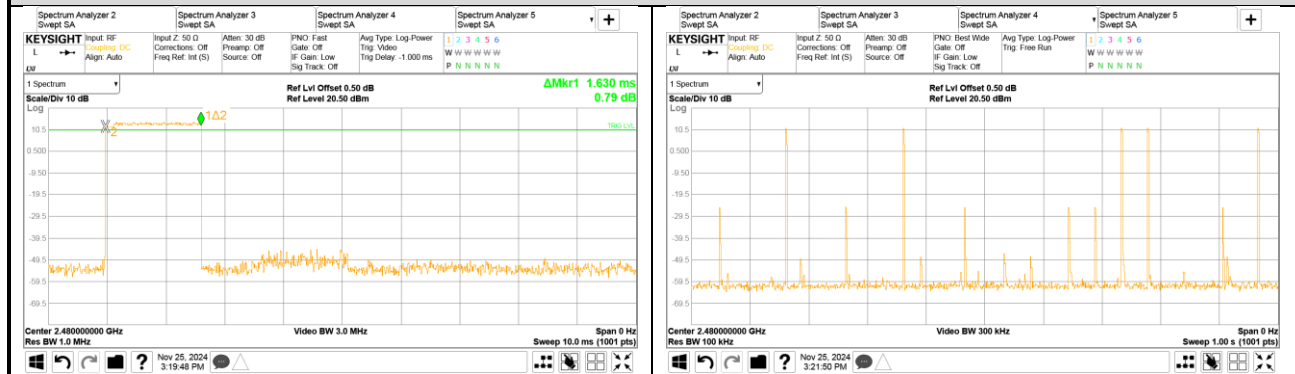
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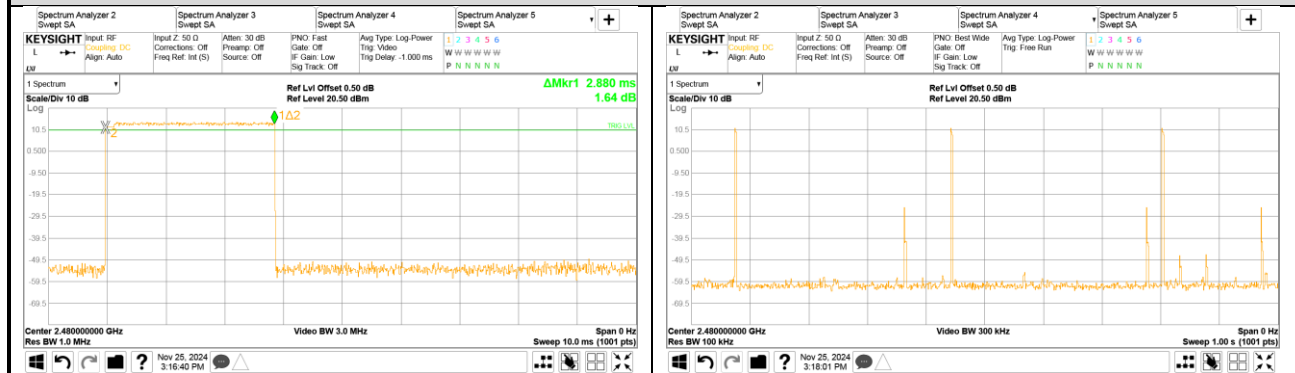
8-DPSK 2480MHz 3DH1



3DH3



3DH5

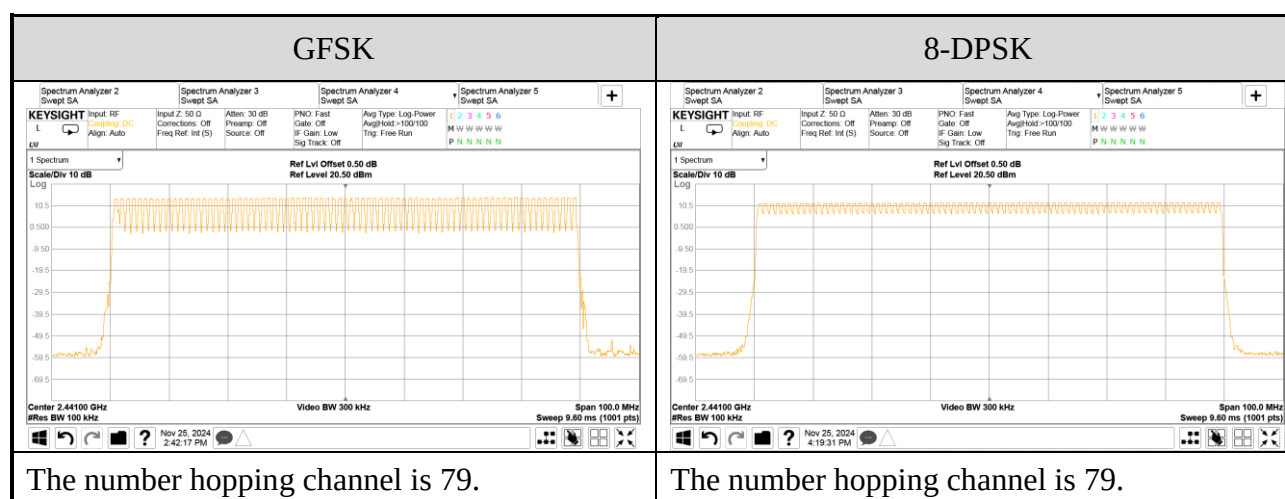


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A.6 NUMBER OF HOPPING CHANNELS

Test Date	2024/11/25	Temp./Hum.	23°C/52%
Cable Loss	0.50dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2024/11/25	Temp./Hum.	23°C/52%
Cable Loss	0.50dB	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	14.09	0.026	< 21dBm (0.125W)
	2441	14.10	0.026	
	2480	14.26	0.027	
8-DPSK	2402	13.92	0.025	
	2441	14.13	0.026	
	2480	14.16	0.026	

A.7.2 Average Output Power (Reporting only)

Mode	Centre Frequency (MHz)	Average Output Power (dBm)	Duty cycle factor (dB) 10log (1/x)	Maximum Average Output Power		Limit
				(dBm)	(W)	
GFSK	2402	12.91	1.152	12.91	0.020	< 21dBm (0.125W)
	2441	12.89	1.152	12.89	0.019	
	2480	12.98	1.152	12.98	0.020	
8-DPSK	2402	10.56	1.152	11.71	0.015	
	2441	10.64	1.152	11.79	0.015	
	2480	10.71	1.152	11.86	0.015	

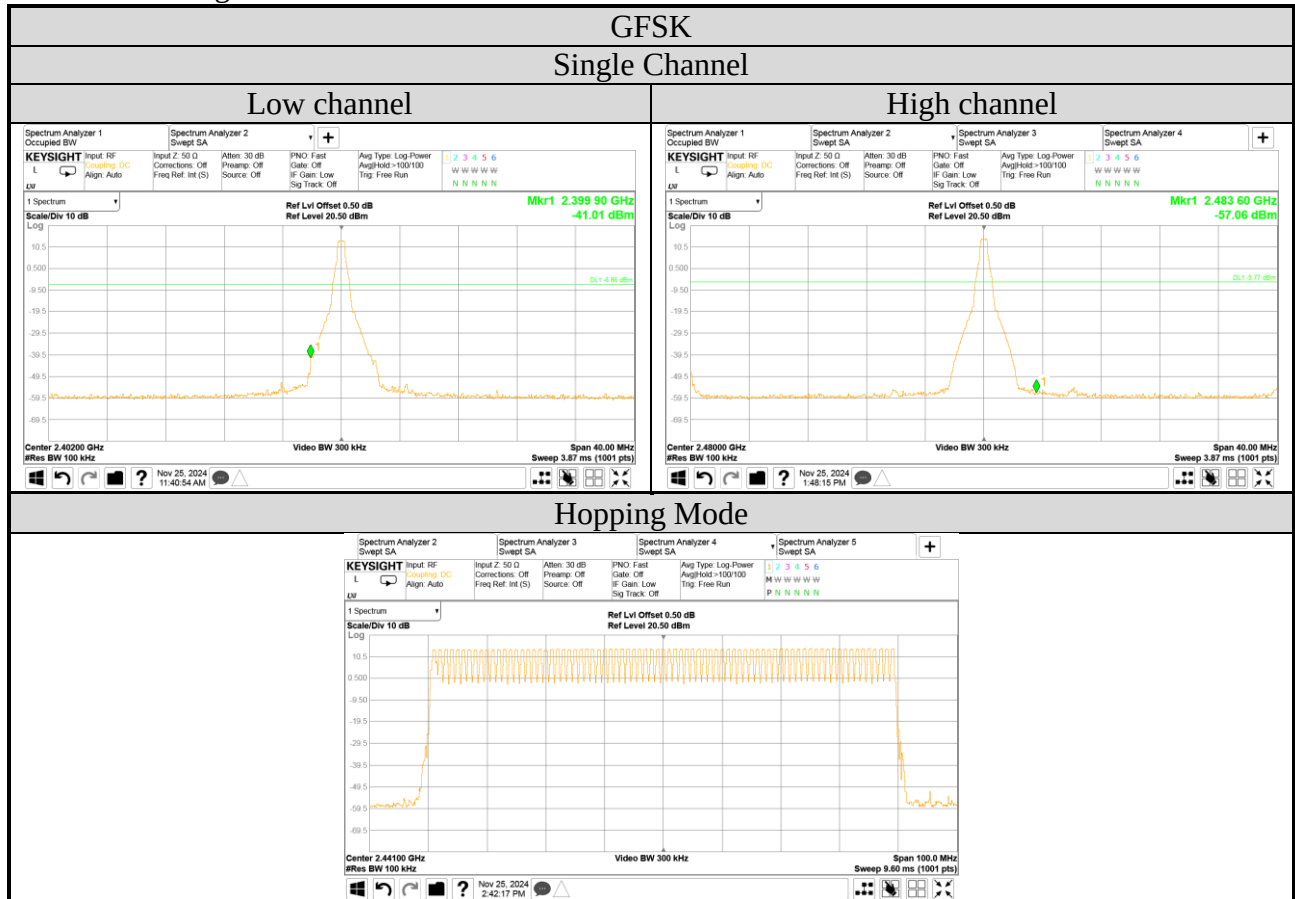
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A.8 EMISSION LIMITATIONS MEASUREMENT

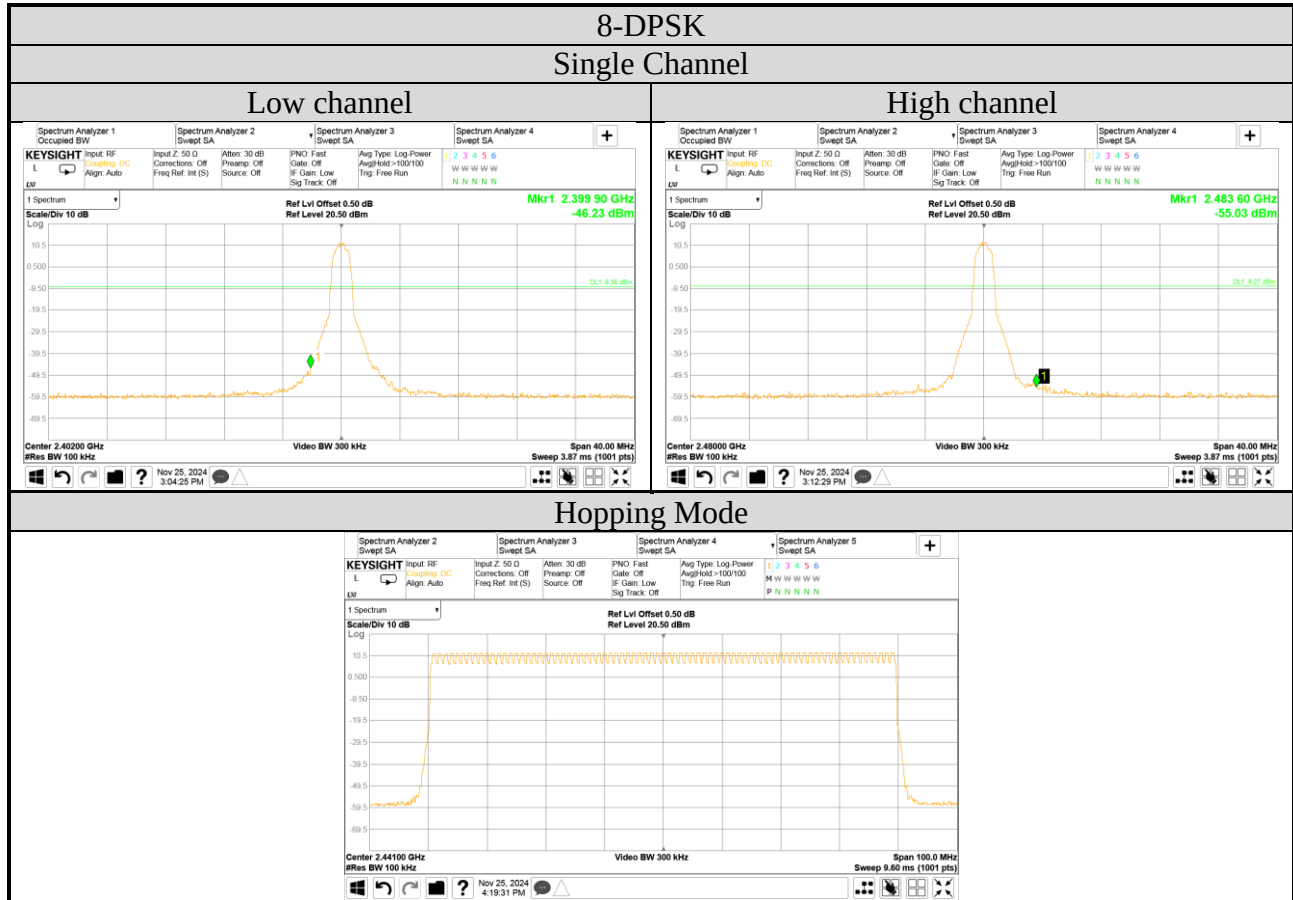
Test Date	2024/11/25	Temp./Hum.	23°C/52%
Cable Loss	0.50dB	Tested By	Harry Huang
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge



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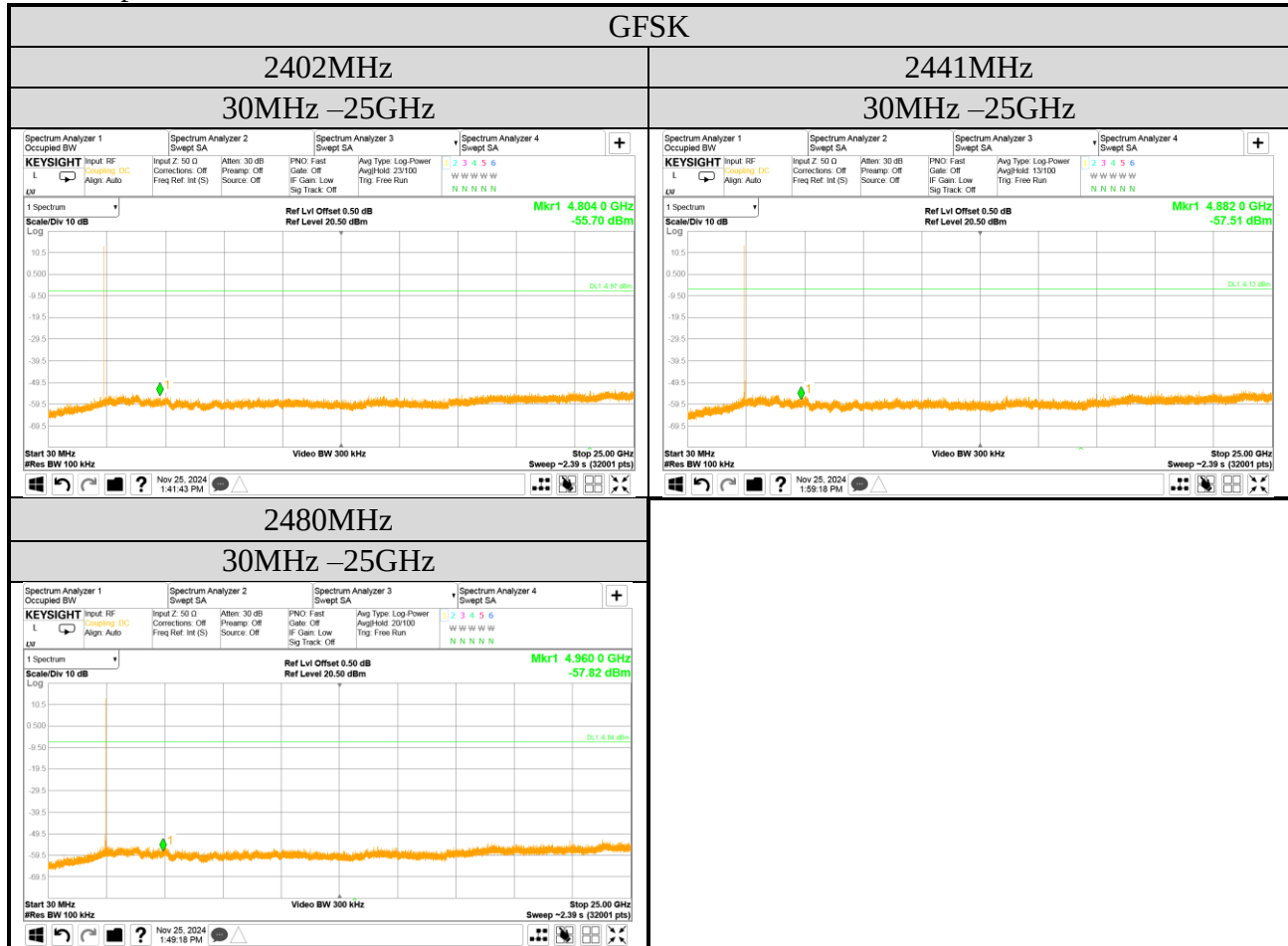
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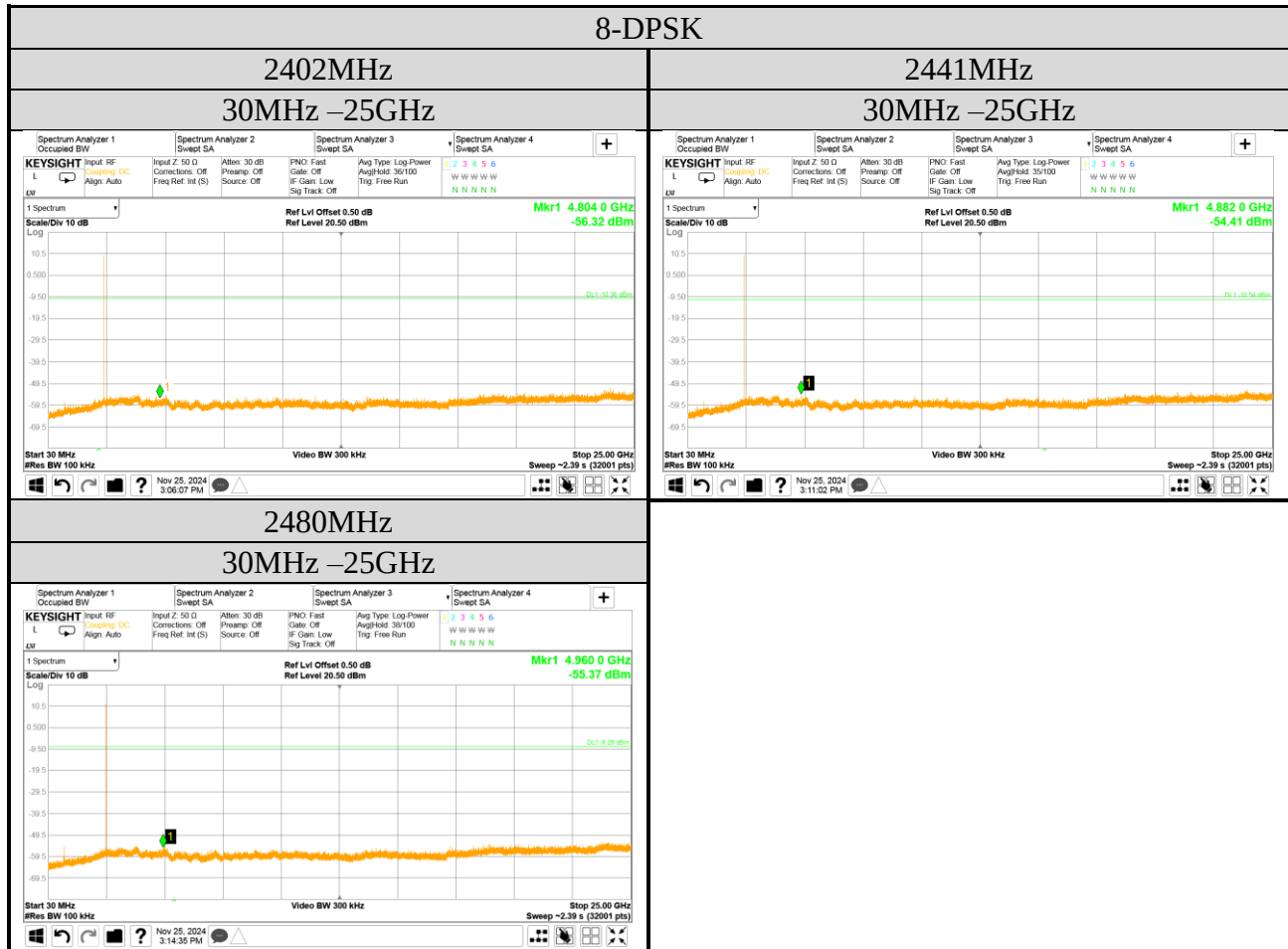
A.8.2 Spurious Emission



Note: All results have been included cable loss.

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Note: All results have been included cable loss.