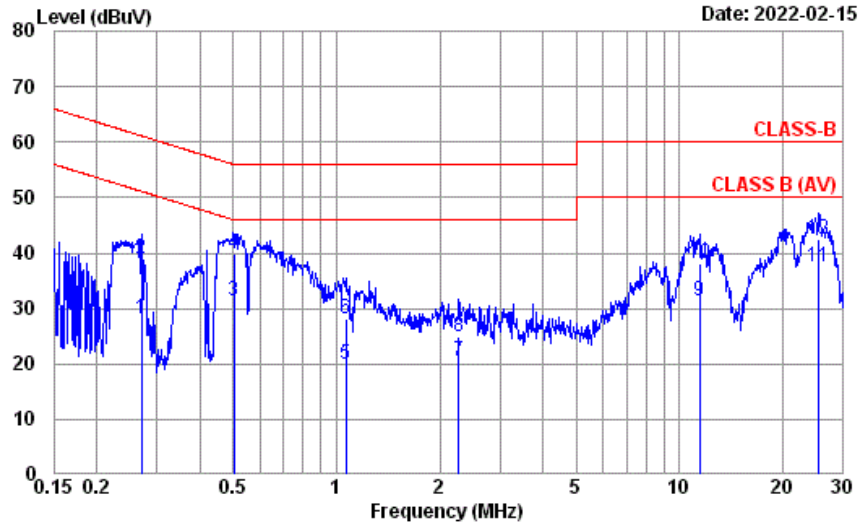

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A.1 CONDUCTED EMISSION

Test Date	2022/02/15	Temp./Hum.	23°C/60%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #1 (with INPAQ Antenna)		

Data: 3 File: D:\test data\REPORT\2022\C1M2201XXX\C1M2201239\C1M2201239-C-D-RF.EM6 (4)



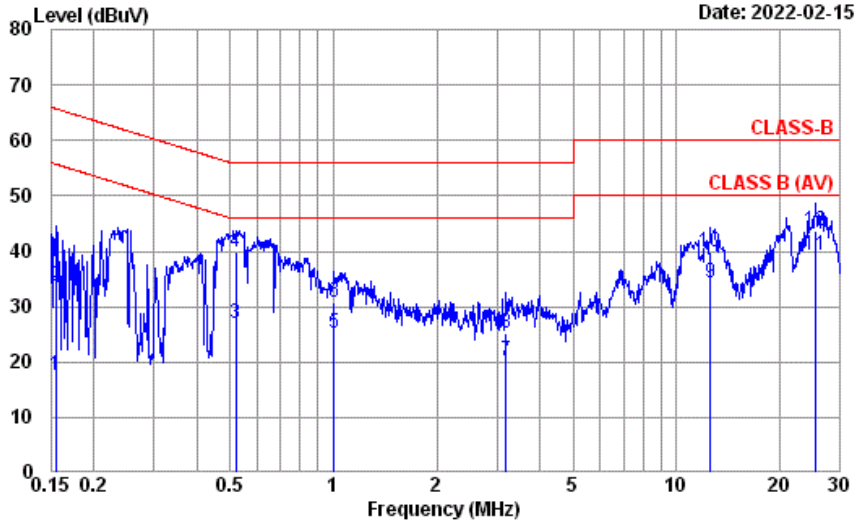
Site No.	: No.8 Shielded Room	Data No.	: 3
Instrument 1	: Receiver ESR(774)		
Instrument 2	: EHV432 (567)(A) CE-08 ESH3-Z2 (354)		
Limit	: CLASS-B	Phase	: NEUTRAL
Environment	: 23°C / 60%	Engineer	: Chucky Chiu
EUT Model	: 14Z90Q	Test Rating	: 120Vac/60Hz
Test Mode	: Operating		
	INPAQ		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.270	10.38	0.03	9.85	7.84	28.10	51.12	23.02	Average
2	0.270	10.38	0.03	9.85	18.78	39.04	61.12	22.08	QP
3	0.502	10.37	0.03	9.85	11.20	31.45	46.00	14.55	Average
4	0.502	10.37	0.03	9.85	19.67	39.92	56.00	16.08	QP
5	1.065	10.38	0.04	9.85	-0.31	19.96	46.00	26.04	Average
6	1.065	10.38	0.04	9.85	7.80	28.07	56.00	27.93	QP
7	2.273	10.42	0.07	9.86	0.23	20.58	46.00	25.42	Average
8	2.273	10.42	0.07	9.86	4.42	24.77	56.00	31.23	QP
9	11.438	10.76	0.15	9.90	10.62	31.43	50.00	18.57	Average
10	11.438	10.76	0.15	9.90	17.30	38.11	60.00	21.89	QP
11	25.456	11.27	0.22	9.97	15.97	37.43	50.00	12.57	Average
12	25.456	11.27	0.22	9.97	21.13	42.59	60.00	17.41	QP

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

Test Date	2022/02/15	Temp./Hum.	23°C/60%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #1 (with INPAQ Antenna)		

Data: 4 File: D:\test data\REPORT\2022\C1M2201XXX\C1M2201239\C1M2201239-C-D-RF.EM6 (4) Date: 2022-02-15



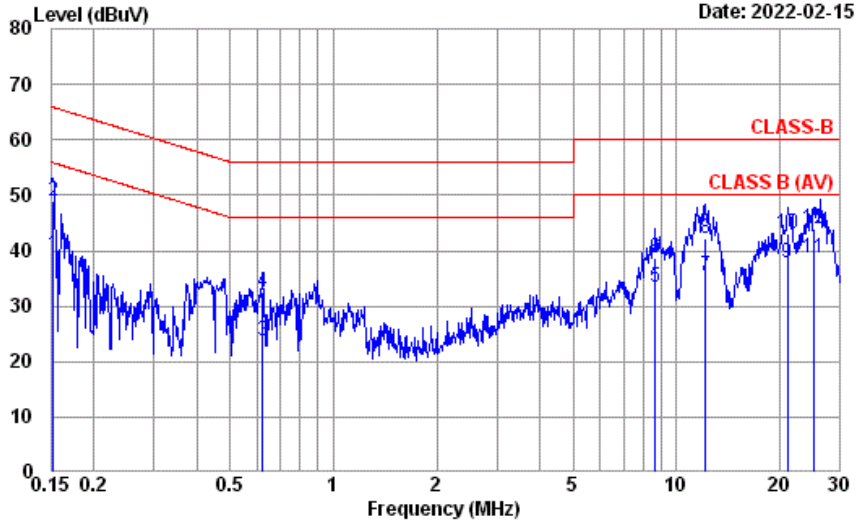
Site No. : No.8 Shielded Room Data No. : 4
 Instrument 1 : Receiver ESR(774)
 Instrument 2 : EHV432 (567)(A)|CE-08|ESH3-Z2 (354)
 Limit : CLASS-B Phase : LINE
 Environment : 23°C / 60% Engineer : Chucky Chiu
 EUT Model : I4290Q Test Rating : 120Vac/60Hz
 Test Mode : Operating
 INPAQ

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.155	10.40	0.03	9.85	-2.74	17.54	55.74	38.20	Average
2	0.155	10.40	0.03	9.85	13.42	33.70	65.74	32.04	QP
3	0.518	10.37	0.03	9.85	6.75	27.00	46.00	19.00	Average
4	0.518	10.37	0.03	9.85	19.68	39.93	56.00	16.07	QP
5	1.005	10.38	0.04	9.85	5.02	25.29	46.00	20.71	Average
6	1.005	10.38	0.04	9.85	10.62	30.89	56.00	25.11	QP
7	3.190	10.41	0.08	9.86	-0.05	20.30	46.00	25.70	Average
8	3.190	10.41	0.08	9.86	4.74	25.09	56.00	30.91	QP
9	12.582	10.63	0.15	9.90	13.63	34.31	50.00	15.69	Average
10	12.582	10.63	0.15	9.90	19.10	39.78	60.00	20.22	QP
11	25.456	10.83	0.22	9.97	18.34	39.36	50.00	10.64	Average
12	25.456	10.83	0.22	9.97	22.63	43.65	60.00	16.35	QP

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

Test Date	2022/02/15	Temp./Hum.	23°C/60%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #2 (with LUXSHARE-ICT Antenna)		

Data: 2 File: D:\test data\REPORT\2022\1M2201XXX\1M2201239\1M2201239-C-D-RF.EM6 (4)



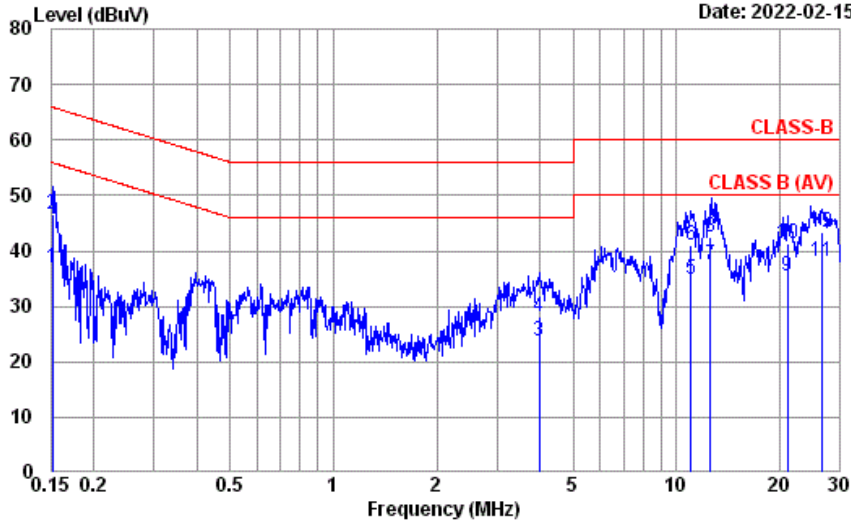
Site No. : No.8 Shielded Room Data No. : 2
 Instrument 1 : Receiver ESR(774)
 Instrument 2 : ENH432 (567)(A)|CE-08|ESH3-Z2 (354)
 Limit : CLASS-B Phase : NEUTRAL
 Environment : 23°C / 60% Engineer : Chucky Chiu
 EUT Model : 14Z90Q Test Rating : 120Vac/60Hz
 Test Mode : Operating
 Luxshare

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	10.41	0.03	9.85	18.88	39.17	55.87	16.70	Average
2	0.152	10.41	0.03	9.85	28.51	48.80	65.87	17.07	QP
3	0.621	10.37	0.03	9.85	3.48	23.73	46.00	22.27	Average
4	0.621	10.37	0.03	9.85	12.18	32.43	56.00	23.57	QP
5	8.683	10.64	0.13	9.88	12.67	33.32	50.00	16.68	Average
6	8.683	10.64	0.13	9.88	17.99	38.64	60.00	21.36	QP
7	12.124	10.79	0.15	9.90	14.53	35.37	50.00	14.63	Average
8	12.124	10.79	0.15	9.90	21.22	42.06	60.00	17.94	QP
9	21.035	11.13	0.20	9.95	16.56	37.84	50.00	12.16	Average
10	21.035	11.13	0.20	9.95	21.91	43.19	60.00	16.81	QP
11	25.055	11.26	0.22	9.97	17.33	38.78	50.00	11.22	Average
12	25.055	11.26	0.22	9.97	22.43	43.88	60.00	16.12	QP

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

Test Date	2022/02/15	Temp./Hum.	23°C/60%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu
Test SKU	SKU #2 (with LUXSHARE-ICT Antenna)		

Data: 1 File: D:\test data\REPORT\2022\C1M2201XXX\C1M2201239\C1M2201239-C-D-RF.EM6 (4) Date: 2022-02-15



Site No. : No.8 Shielded Room Data No. : 1
 Instrument 1 : Receiver ESR(774)
 Instrument 2 : ENH432 (567)(A)|CE-08|ESH3-Z2 (354)
 Limit : CLASS-B Phase : LIIE
 Environment : 23°C / 60% Engineer : Chucky Chiu
 EUT Model : 14Z90Q Test Rating : 120Vac/60Hz
 Test Mode : Operating
 Luxshare

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.152	10.40	0.03	9.85	16.62	36.90	55.91	19.01	Average
2	0.152	10.40	0.03	9.85	26.27	46.55	65.91	19.36	QP
3	3.985	10.42	0.09	9.86	3.33	23.70	46.00	22.30	Average
4	3.985	10.42	0.09	9.86	7.68	28.05	56.00	27.95	QP
5	11.021	10.59	0.15	9.89	14.24	34.87	50.00	15.13	Average
6	11.021	10.59	0.15	9.89	20.36	40.99	60.00	19.01	QP
7	12.582	10.63	0.15	9.90	16.83	37.51	50.00	12.49	Average
8	12.582	10.63	0.15	9.90	21.94	42.62	60.00	17.38	QP
9	21.035	10.78	0.20	9.95	14.46	35.39	50.00	14.61	Average
10	21.035	10.78	0.20	9.95	20.29	41.22	60.00	18.78	QP
11	26.418	10.84	0.23	9.98	17.05	38.10	50.00	11.90	Average
12	26.418	10.84	0.23	9.98	22.19	43.24	60.00	16.76	QP

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

A.2 RADIATED EMISSION

Test Date	2022/01/26~02/14	Temp./Hum.	19~23°C/65~71%
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.

Audix Technology Corp.
 No. 491, Zhongfu Rd., Linkou Dist.,
 New Taipei City244, Taiwan

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

A.2.1.2 Frequency Below 1GHz

● SKU #1 (with INPAQ Antenna)

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
30.970	23.26	1.20	32.43	39.48	31.51	40.00	8.49	Peak
152.220	16.17	2.88	32.28	45.63	32.40	43.50	11.10	Peak
225.940	16.80	3.63	32.24	49.63	37.82	46.00	8.18	Peak
597.450	24.28	6.76	32.31	37.41	36.14	46.00	9.86	Peak
897.180	26.29	8.42	31.50	35.01	38.22	46.00	7.78	Peak
998.060	27.10	8.95	30.57	28.91	34.39	54.00	19.61	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
30.970	23.26	1.20	32.43	41.94	33.97	40.00	6.03	Peak
126.030	17.66	2.59	32.31	45.83	33.77	43.50	9.73	Peak
423.820	21.83	5.77	32.23	41.92	37.29	46.00	8.71	Peak
593.570	24.23	6.75	32.31	35.60	34.27	46.00	11.73	Peak
903.000	26.33	8.46	31.46	34.45	37.78	46.00	8.22	Peak
967.990	26.88	8.81	30.89	33.04	37.84	54.00	16.16	Peak

● SKU #2 (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)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
84.320	13.72	2.08	32.37	43.33	26.76	40.00	13.24	Peak
153.190	16.10	2.89	32.28	45.53	32.24	43.50	11.26	Peak
423.820	21.83	5.77	32.23	44.67	40.04	46.00	5.96	Peak
677.960	24.68	7.17	32.13	37.34	37.06	46.00	8.94	Peak
900.090	26.30	8.44	31.46	37.72	41.00	46.00	5.00	Peak
988.360	27.05	8.92	30.65	35.60	40.92	54.00	13.08	Peak

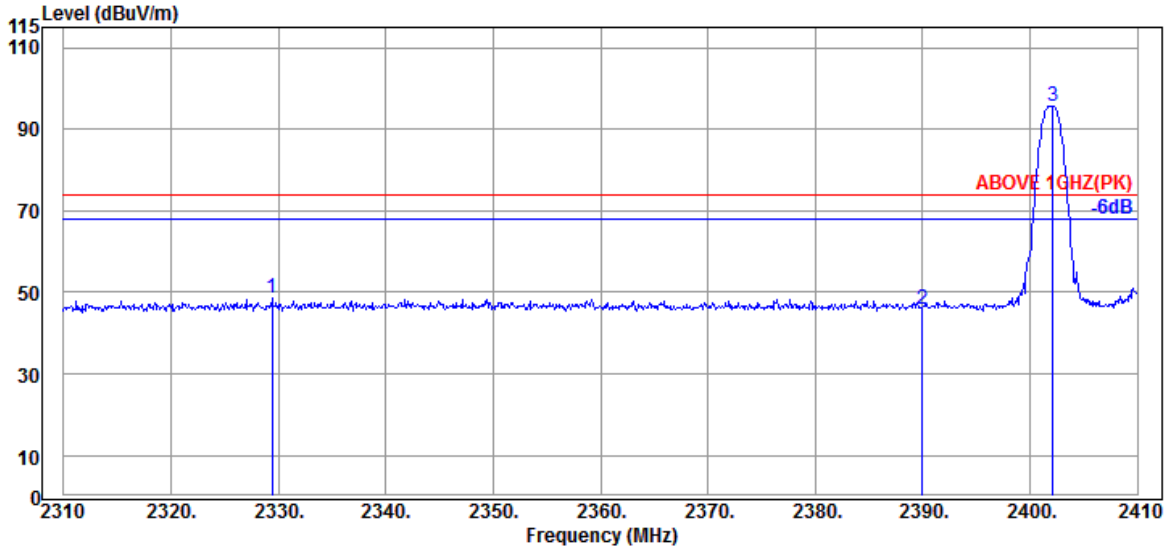
Antenna at Vertical Polarization

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
31.940	22.86	1.22	32.43	44.66	36.31	40.00	3.69	Peak
126.030	17.66	2.59	32.31	43.69	31.63	43.50	11.87	Peak
423.820	21.83	5.77	32.23	46.44	41.81	46.00	4.19	Peak
593.570	24.23	6.75	32.31	39.76	38.43	46.00	7.57	Peak
896.210	26.29	8.42	31.50	35.66	38.87	46.00	7.13	Peak
983.510	26.99	8.88	30.73	34.66	39.80	54.00	14.20	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

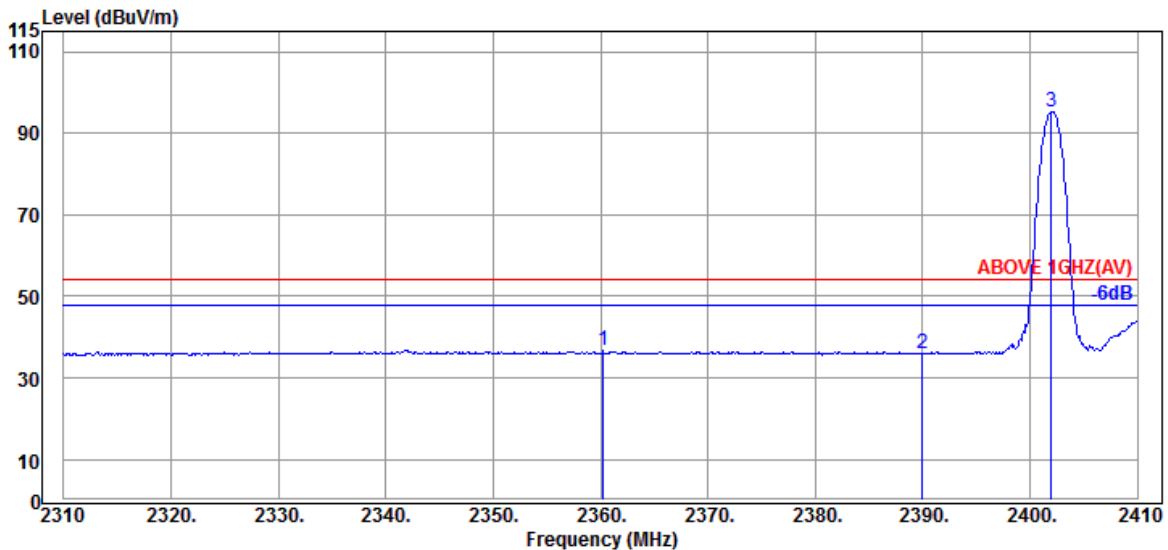
Band Edge:

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2329.400	32.02	5.93	34.52	45.03	48.46	74.00	25.54	Peak
2390.000	31.89	6.04	34.54	42.48	45.87	74.00	28.13	Peak
@ 2402.100	31.80	6.04	34.54	92.39	95.69	---	---	Peak

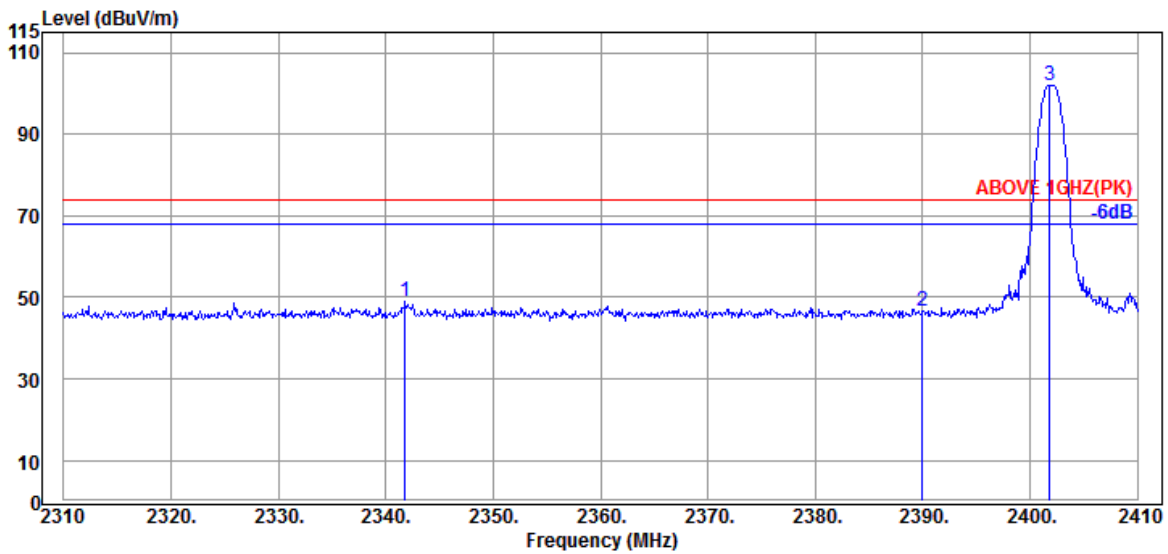


Antenna at Horizontal Polarization

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
2360.300	32.06	5.98	34.53	33.29	36.80	54.00	17.20	Average
2390.000	31.89	6.04	34.54	32.55	35.94	54.00	18.06	Average
@ 2402.000	31.80	6.04	34.54	92.08	95.38	---	---	Average

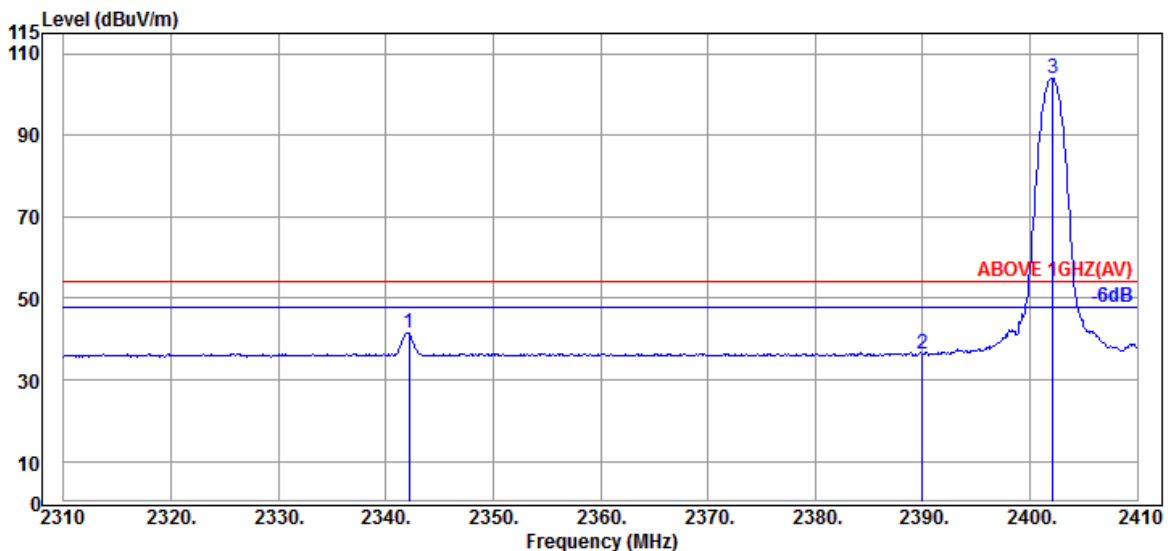
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2341.800	32.05	5.96	34.53	45.58	49.06	74.00	24.94	Peak
2390.000	31.89	6.04	34.54	43.14	46.53	74.00	27.47	Peak
@ 2401.800	31.80	6.04	34.54	98.79	102.09	---	---	Peak

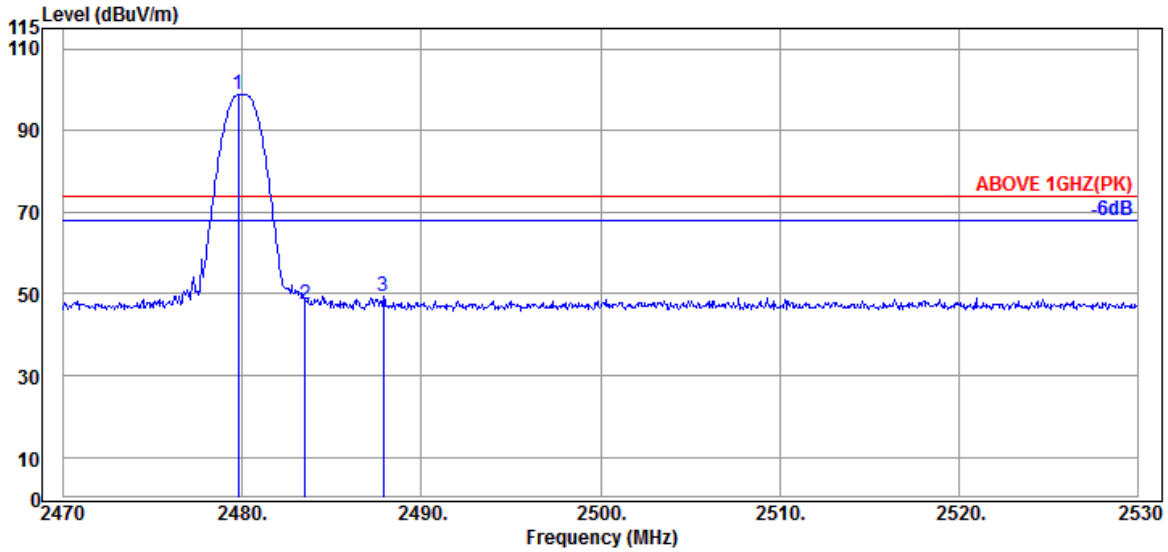


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2342.200	32.05	5.96	34.53	37.90	41.38	54.00	12.62	Average
2390.000	31.89	6.04	34.54	32.83	36.22	54.00	17.78	Average
@ 2402.100	31.80	6.04	34.54	100.62	103.92	---	---	Average

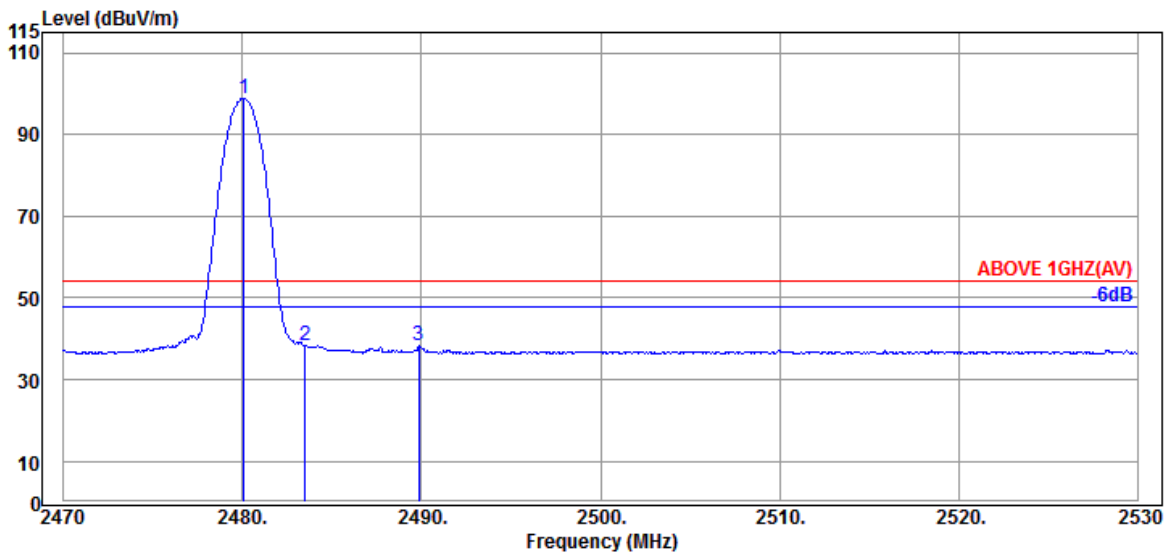
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.780	32.30	6.18	34.55	94.99	98.92	---	---	Peak
2483.500	32.30	6.18	34.55	43.34	47.27	74.00	26.73	Peak
2487.880	32.30	6.21	34.55	45.41	49.37	74.00	24.63	Peak

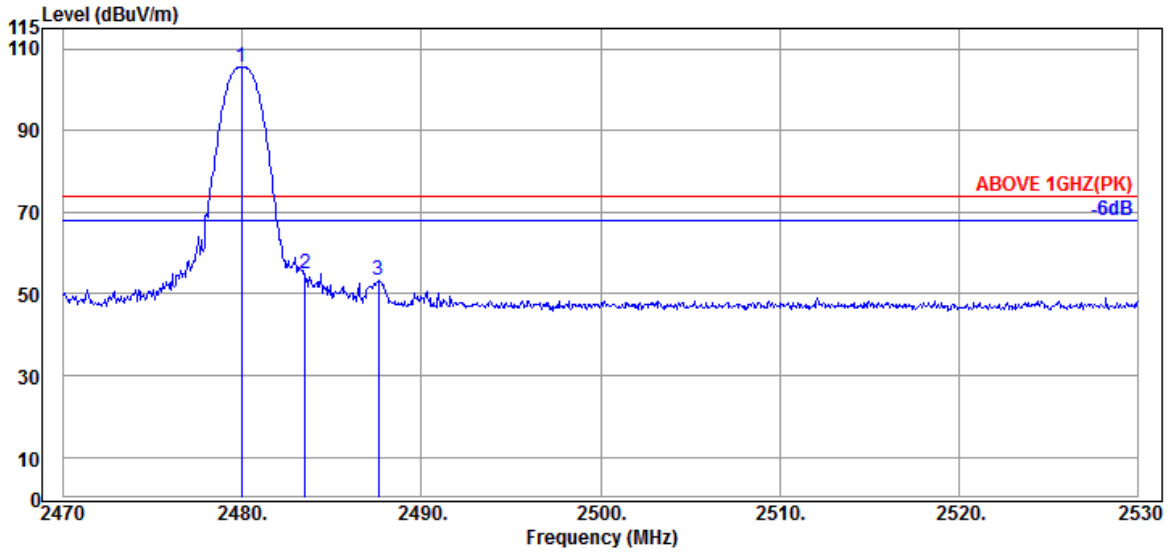


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.080	32.30	6.18	34.55	94.85	98.78	---	---	Average
2483.500	32.30	6.18	34.55	34.46	38.39	54.00	15.61	Average
2489.860	32.30	6.21	34.55	34.24	38.20	54.00	15.80	Average

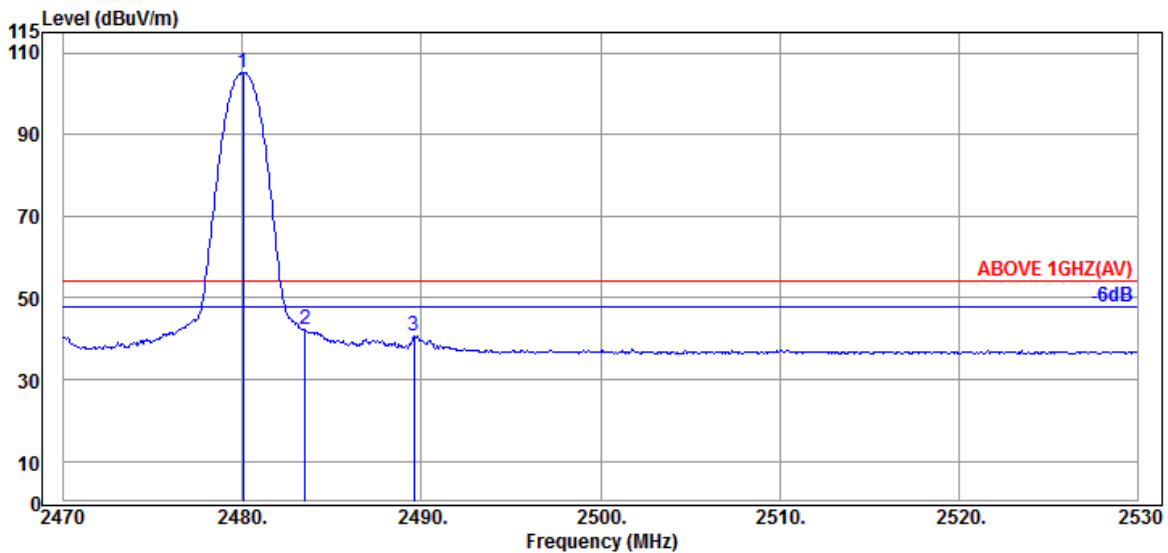
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2479.960	32.30	6.18	34.55	101.51	105.44	---	---	Peak
2483.500	32.30	6.18	34.55	50.84	54.77	74.00	19.23	Peak
2487.580	32.30	6.21	34.55	49.50	53.46	74.00	20.54	Peak

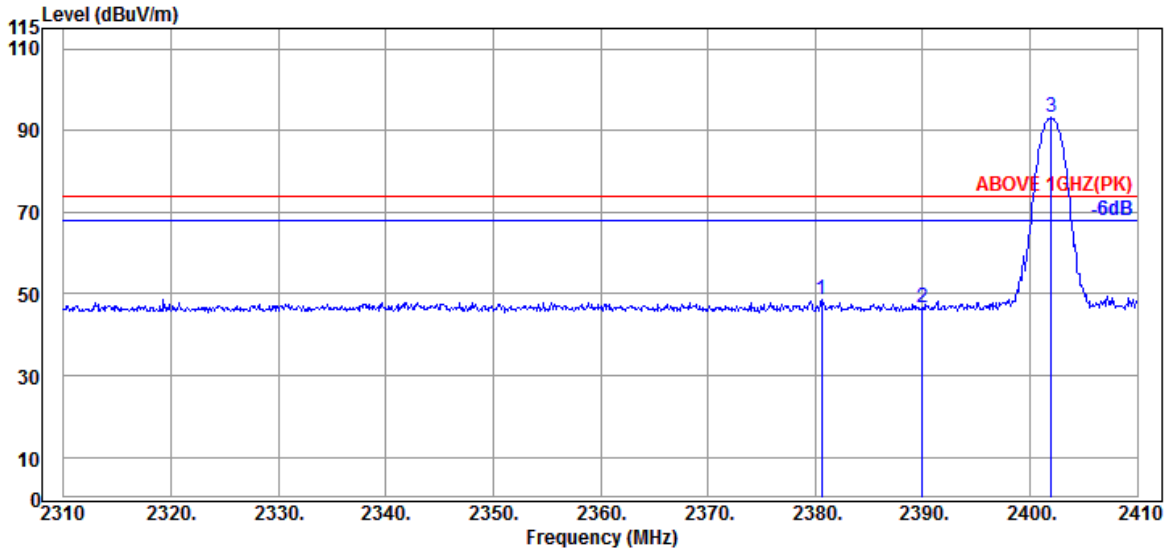


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	32.30	6.18	34.55	101.32	105.25	---	---	Average
2483.500	32.30	6.18	34.55	38.30	42.23	54.00	11.77	Average
2489.560	32.30	6.21	34.55	36.84	40.80	54.00	13.20	Average

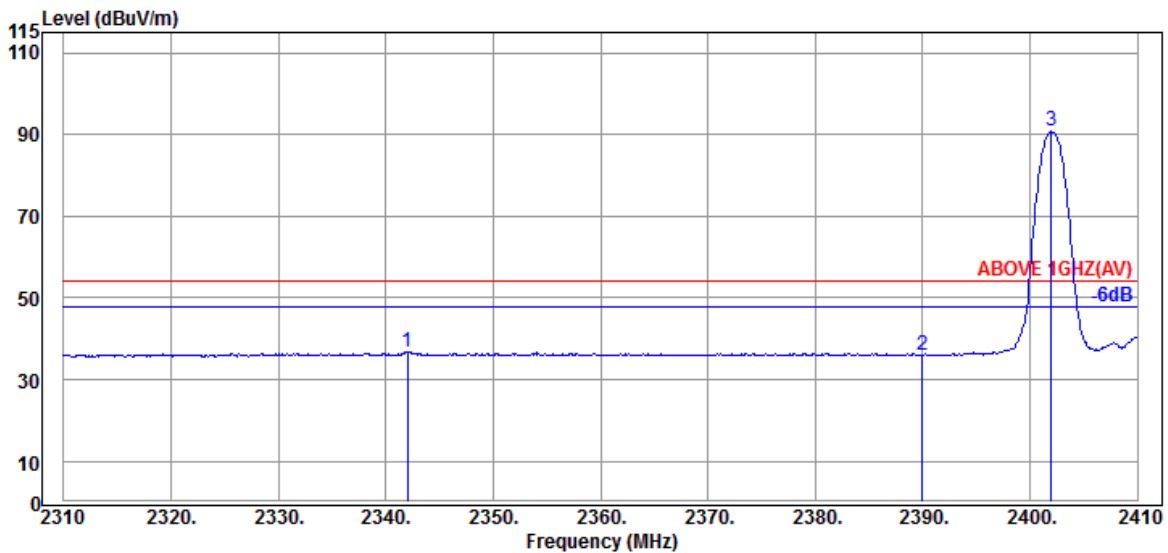
Remark: The "@" means fundamental frequency, it is ignored in this section.

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
2380.600	31.93	6.01	34.53	45.12	48.53	74.00	25.47	Peak
2390.000	31.89	6.04	34.54	43.39	46.78	74.00	27.22	Peak
@ 2402.000	31.80	6.04	34.54	89.87	93.17	---	---	Peak

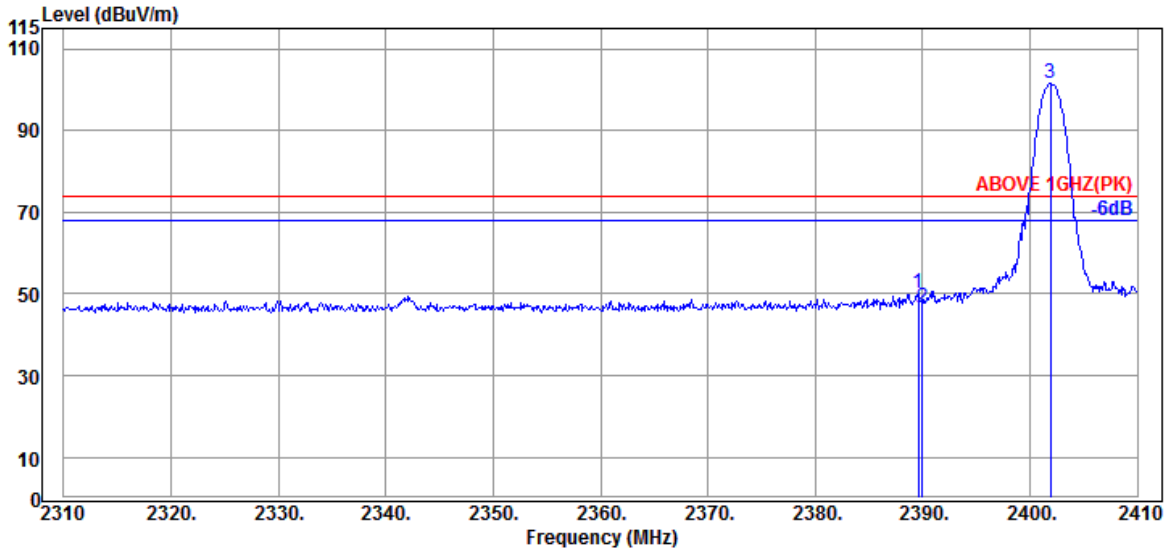


Antenna at Horizontal Polarization

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
2342.000	32.05	5.96	34.53	33.41	36.89	54.00	17.11	Average
2390.000	31.89	6.04	34.54	32.64	36.03	54.00	17.97	Average
@ 2402.000	31.80	6.04	34.54	87.45	90.75	---	---	Average

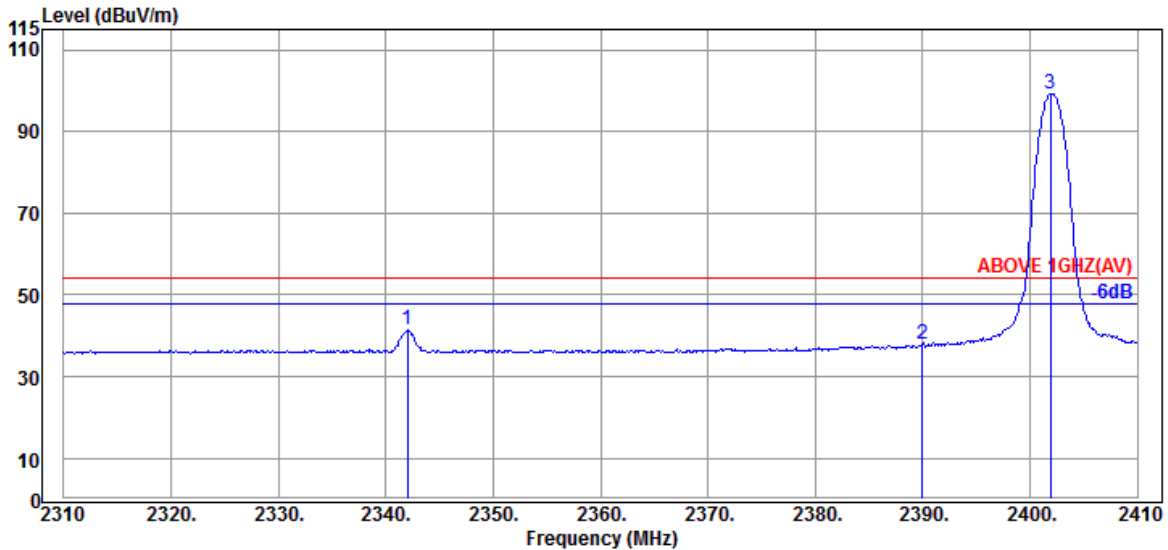
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
2389.600	31.89	6.04	34.53	46.69	50.09	74.00	23.91	Peak
2390.000	31.89	6.04	34.54	43.20	46.59	74.00	27.41	Peak
@ 2401.900	31.80	6.04	34.54	98.26	101.56	---	---	Peak

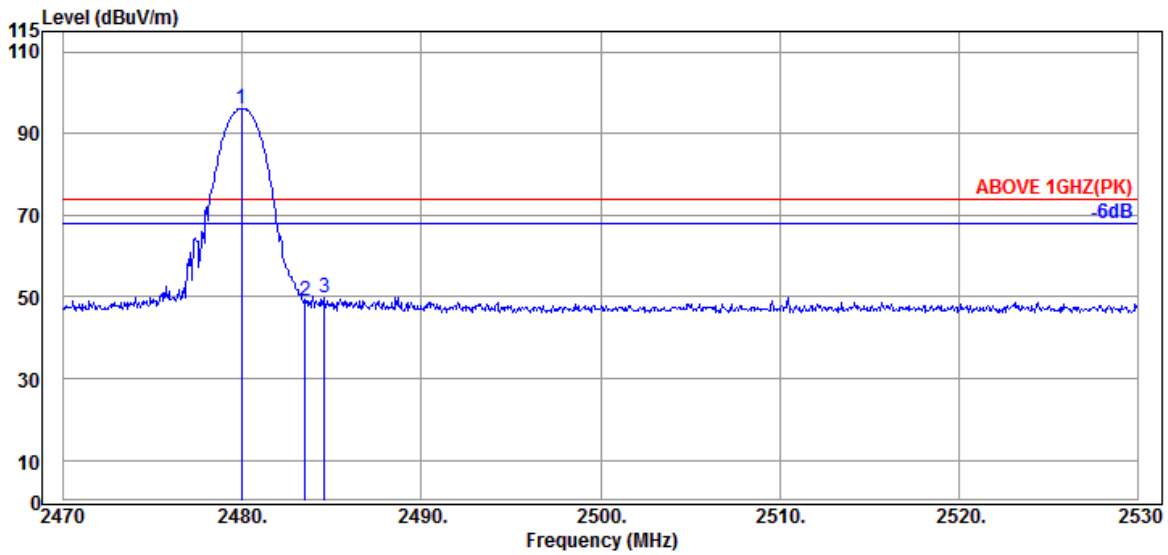


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2342.000	32.05	5.96	34.53	37.91	41.39	54.00	12.61	Average
2390.000	31.89	6.04	34.54	34.38	37.77	54.00	16.23	Average
@ 2401.900	31.80	6.04	34.54	95.93	99.23	---	---	Average

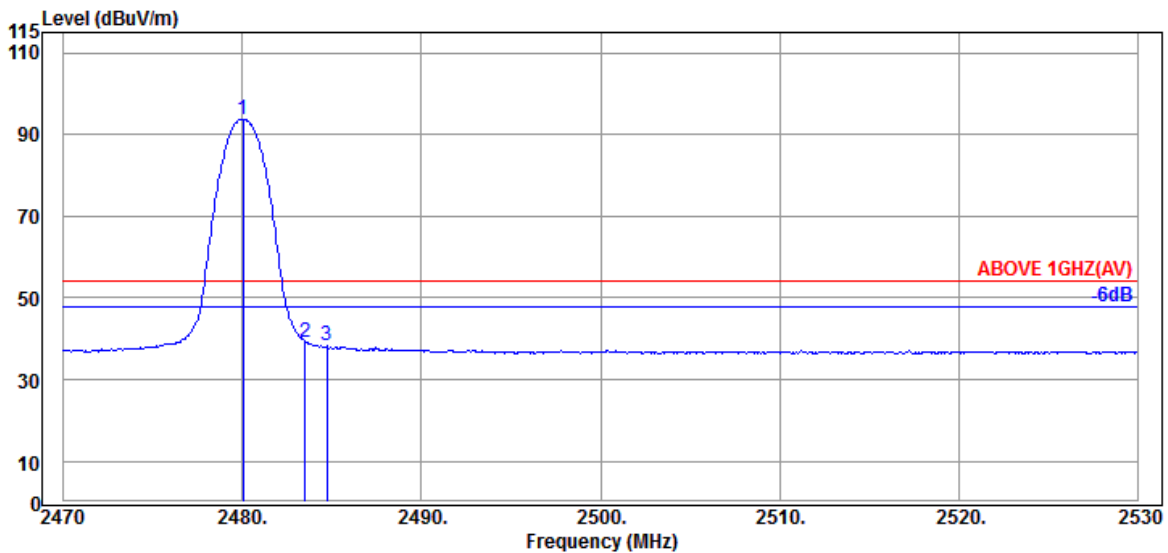
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2479.960	32.30	6.18	34.55	92.20	96.13	---	---	Peak
2483.500	32.30	6.18	34.55	44.99	48.92	74.00	25.08	Peak
2484.580	32.30	6.18	34.55	45.98	49.91	74.00	24.09	Peak

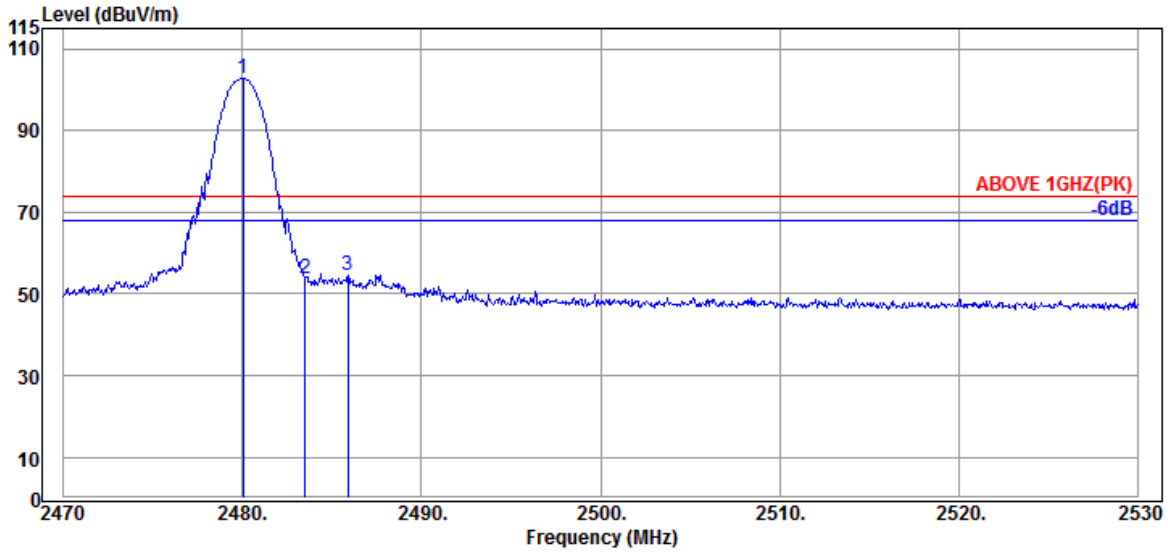


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	32.30	6.18	34.55	89.85	93.78	---	---	Average
2483.500	32.30	6.18	34.55	35.33	39.26	54.00	14.74	Average
2484.700	32.30	6.18	34.55	34.26	38.19	54.00	15.81	Average

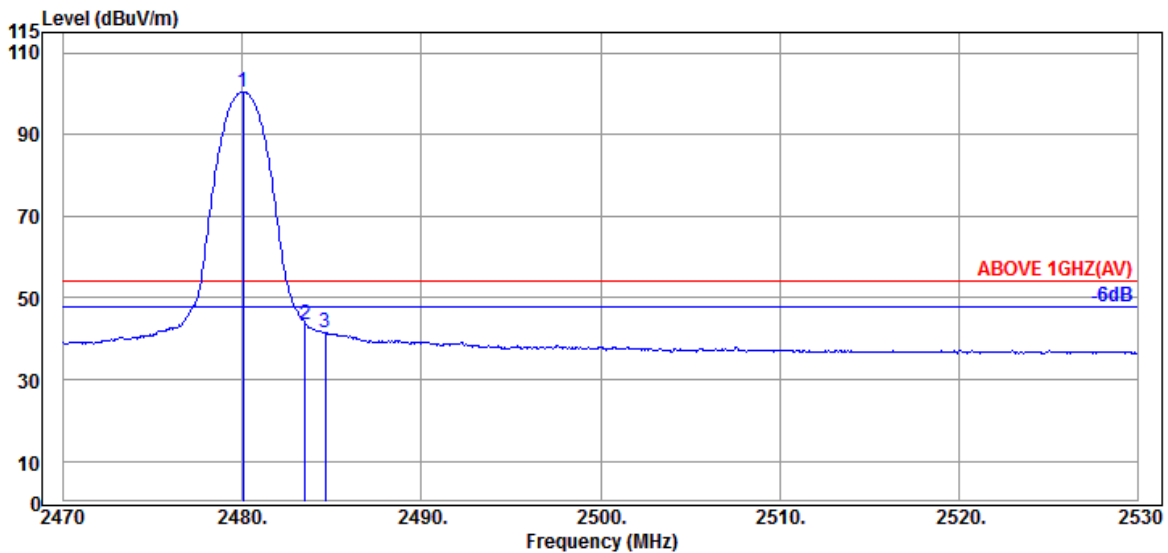
Remark: The “@” means fundamental frequency, it is ignored in this section.

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
@ 2480.020	32.30	6.18	34.55	98.93	102.86	---	---	Peak
2483.500	32.30	6.18	34.55	49.85	53.78	74.00	20.22	Peak
2485.900	32.30	6.18	34.55	50.65	54.58	74.00	19.42	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.020	32.30	6.18	34.55	96.53	100.46	---	---	Average
2483.500	32.30	6.18	34.55	39.72	43.65	54.00	10.35	Average
2484.640	32.30	6.18	34.55	37.75	41.68	54.00	12.32	Average

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

A.2.2 Emissions outside the frequency band:

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

Mode	GFSK			Frequency	TX 2402MHz			
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.60	8.68	34.44	34.31	42.15	54.00	11.85	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
4804.000	33.60	8.68	34.44	33.75	41.59	54.00	12.41	Peak

Mode	GFSK			Frequency	TX 2441MHz			
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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
4882.000	33.88	8.72	34.43	34.28	42.45	54.00	11.55	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.88	8.72	34.43	34.26	42.43	54.00	11.57	Peak

Mode	GFSK			Frequency	TX 2480MHz			
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.83	8.77	34.41	32.52	40.71	54.00	13.29	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.83	8.77	34.41	33.81	42.00	54.00	12.00	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

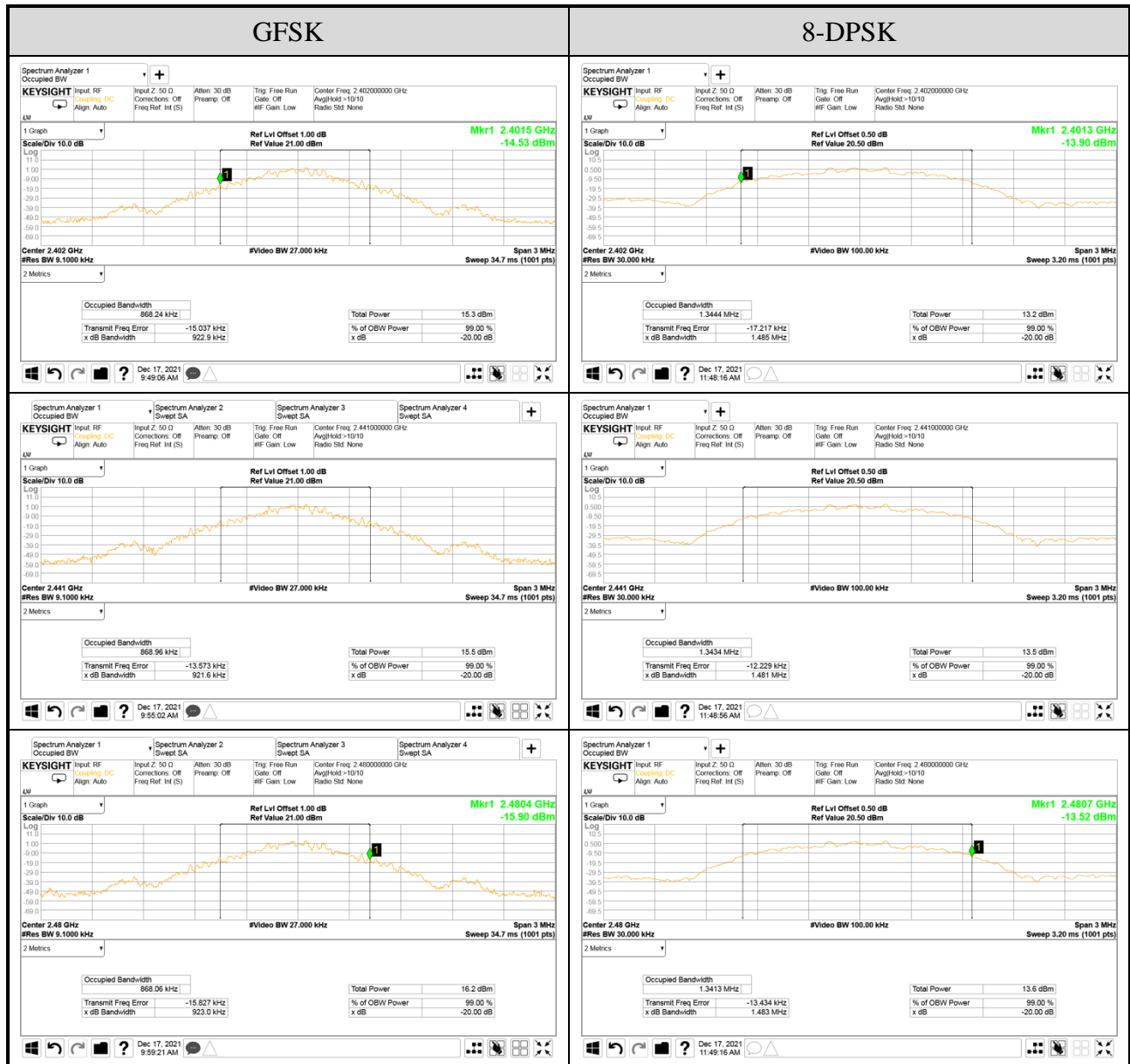
Test Date	2021/12/17	Temp./Hum.	21°C/60%
Cable Loss	1.00dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

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	0.9229	0.86824	0.615
	2441	0.9216	0.86896	0.614
	2480	0.9230	0.86806	0.615
8-DPSK	2402	1.485	1.3444	0.990
	2441	1.481	1.3434	0.987
	2480	1.483	1.3413	0.989

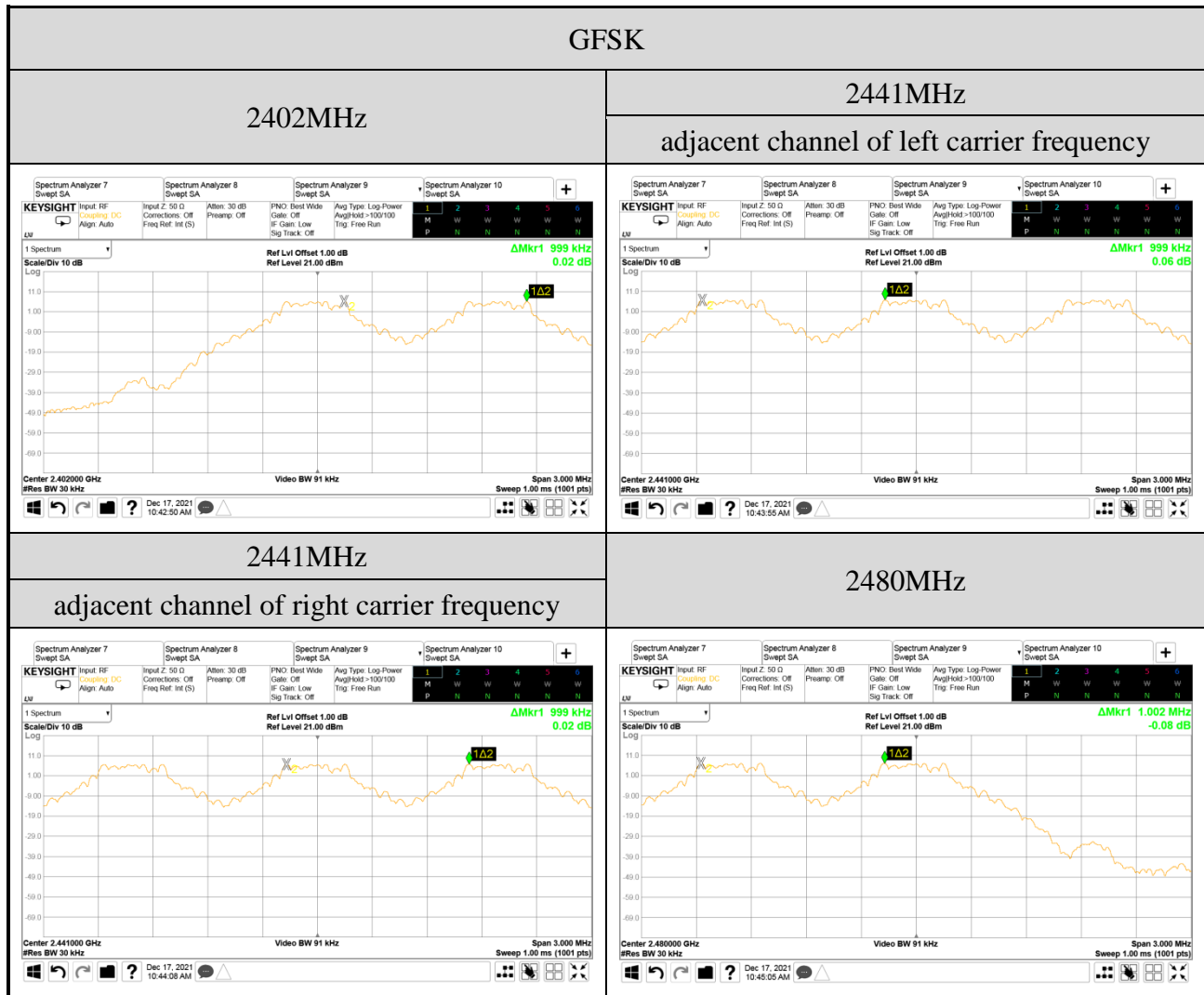
Remark: The maximum two-thirds of the 20dB bandwidth is the limit for carrier frequency separation presented.

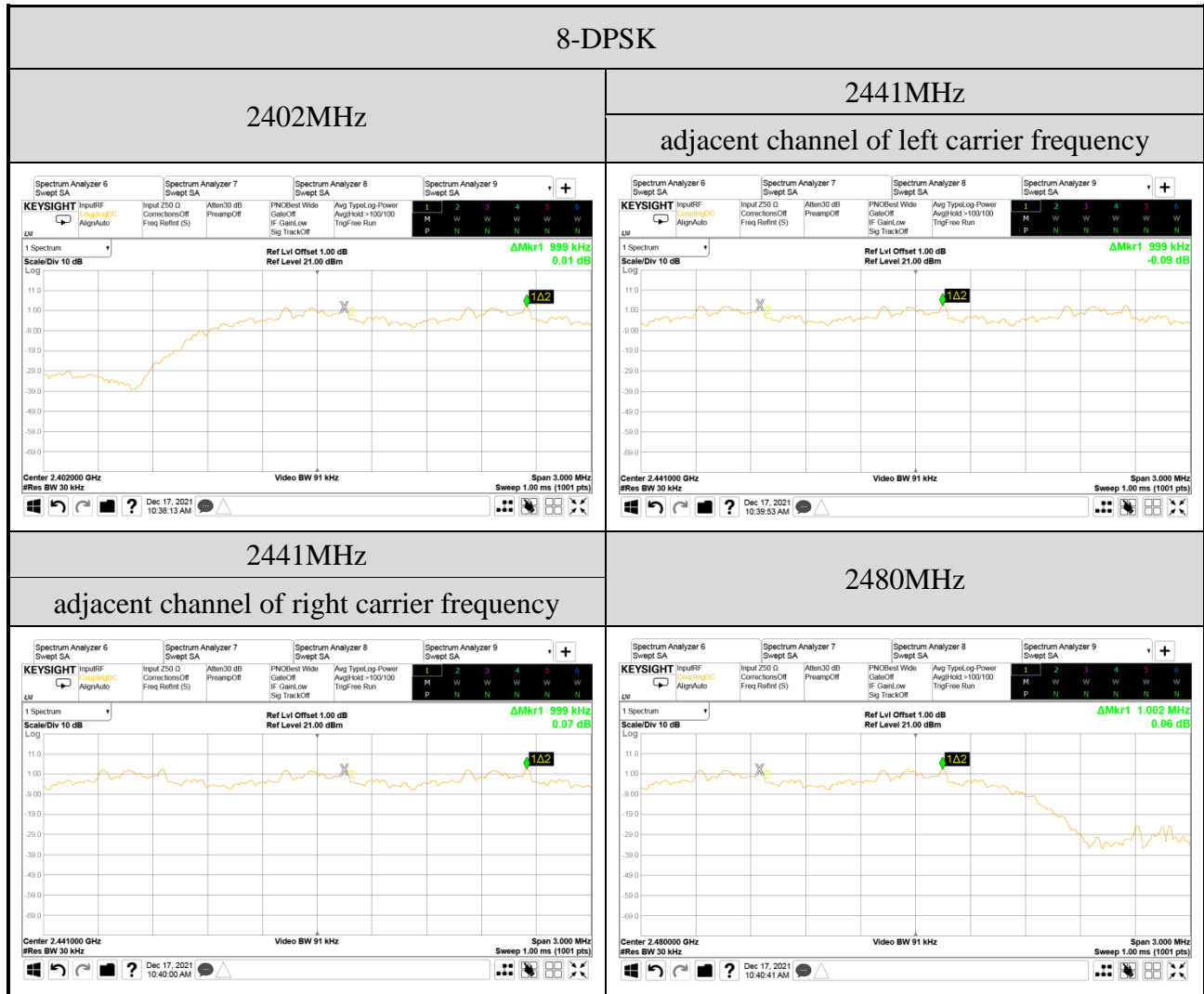
A.3.2 Measurement Plots



A.4 CARRIER FREQUENCY SEPARATION

Test Date	2021/12/17	Temp./Hum.	21°C/60%
Cable Loss	1.00dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		





A.5 TIME OF OCCUPANCY

Test Date	2021/12/17	Temp./Hum.	21°C/60%
Cable Loss	1.00dB	Tested By	Kuper Hsu
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	1.630	257.540	<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 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)

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	2.880	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 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 * 1.640 ms = 259.120 ms (<400ms)

DH5 Mode

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

Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
GFSK	2480	DH1	10	0.380	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 transmission * **31.6** seconds * **0.380** ms = **120.080** ms (<400ms)

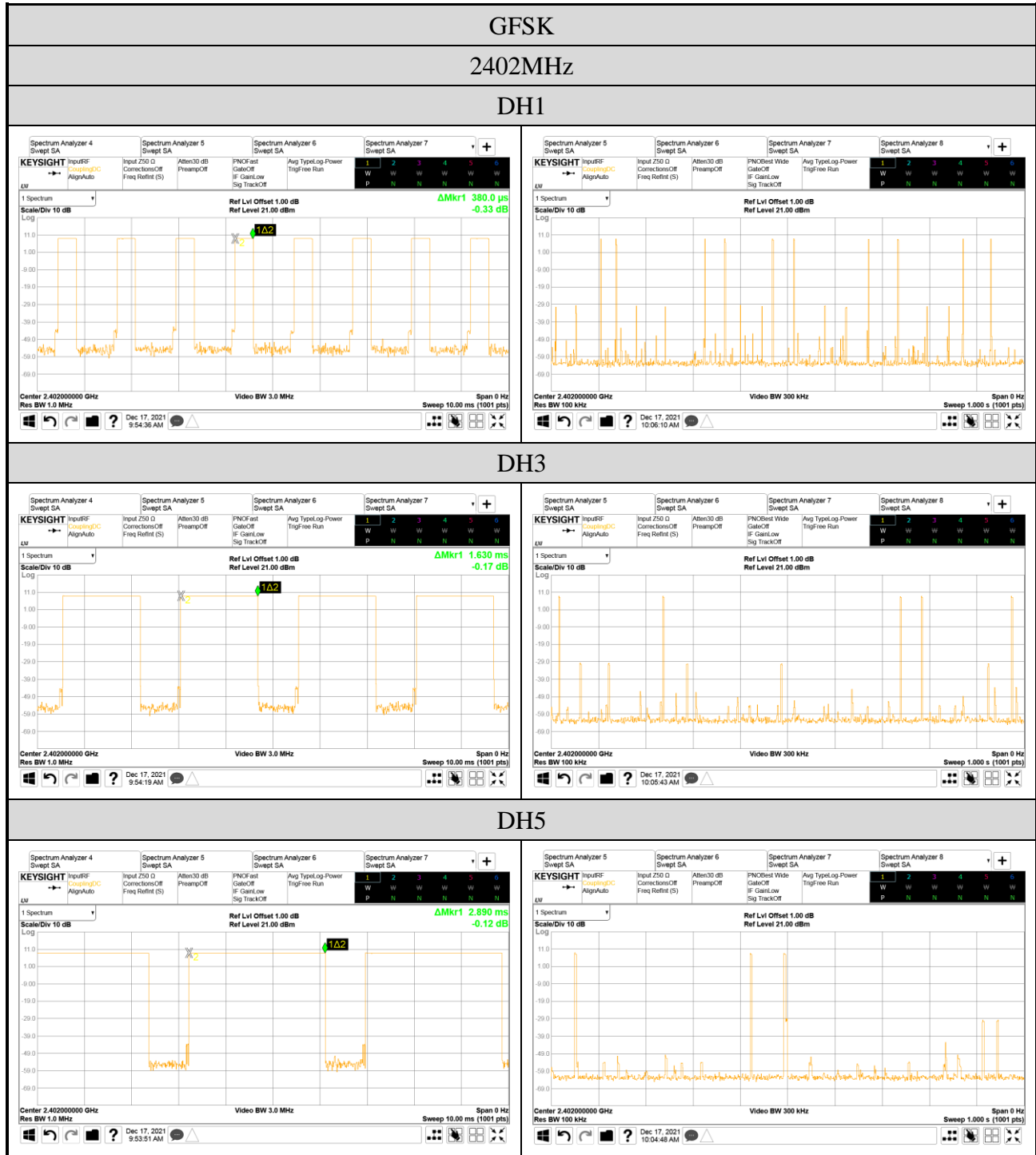
DH3 Mode

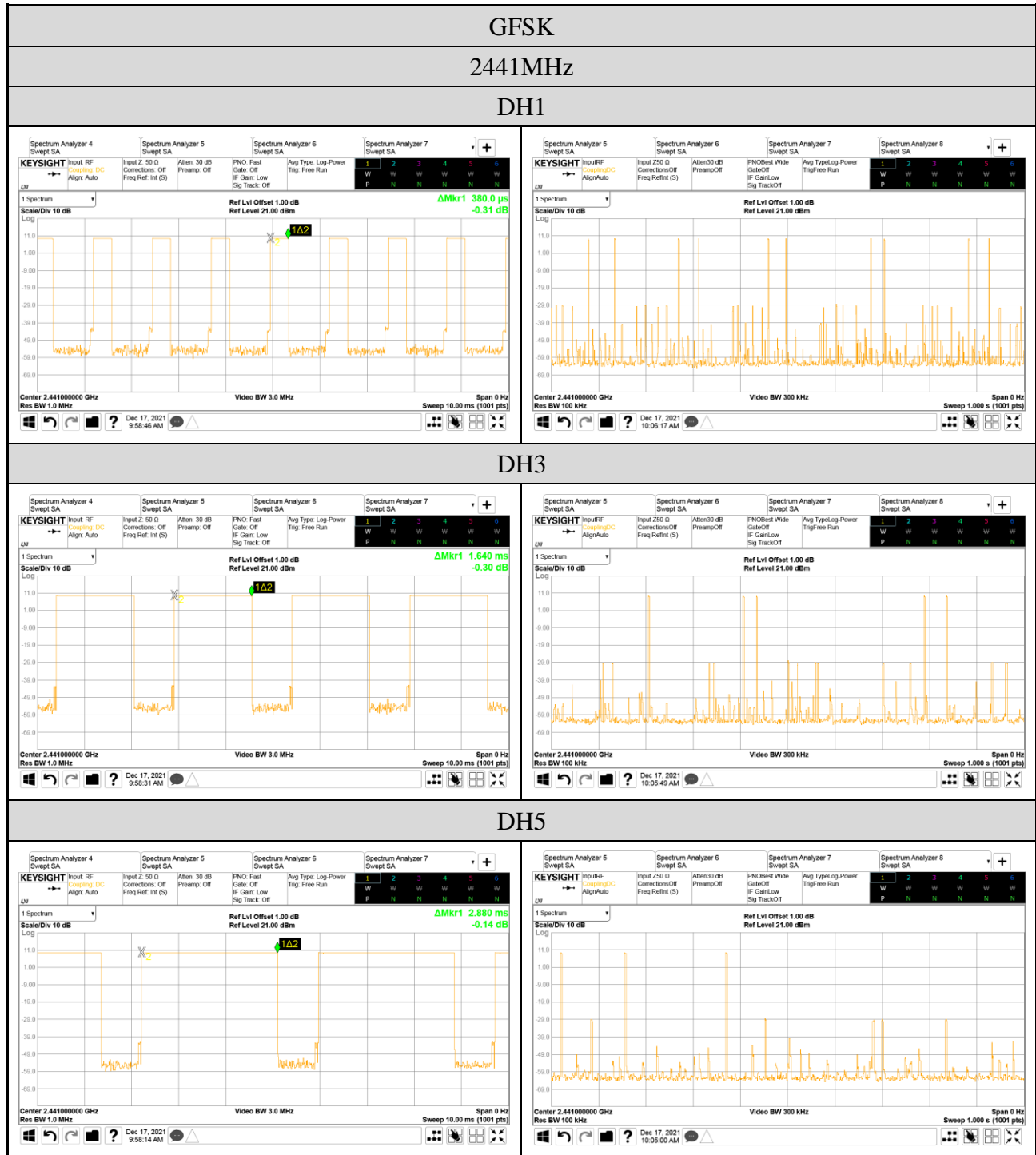
For each second of **5** transmission appearance, the longest time of occupancy is
5 transmission * **31.6** seconds * **1.640** ms = **259.120** ms (<400ms)

DH5 Mode

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

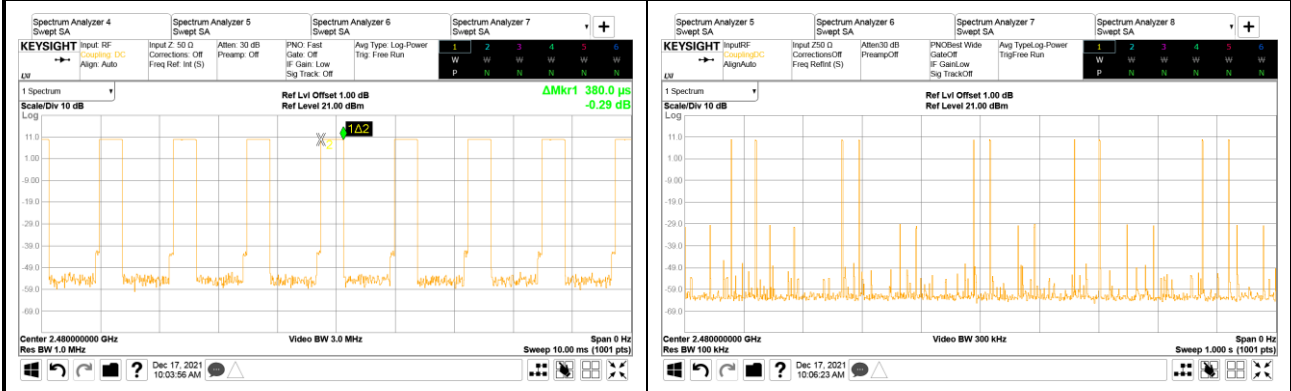
● Measurement Plots





GFSK
2480MHz

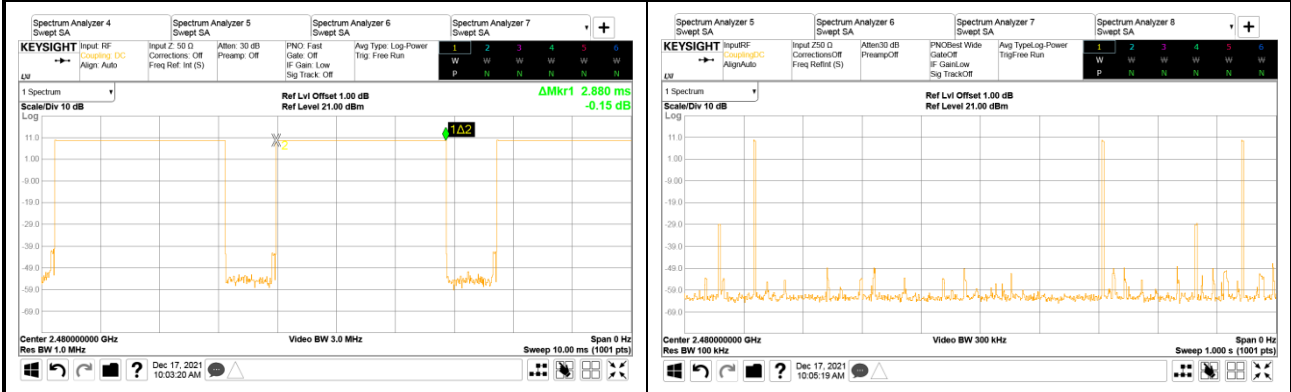
DH1



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	0.380	120.080	<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* **0.380** 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* **1.640** 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	2.890	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	2480	3DH1	10	0.390	123.240	<400
		3DH3	5	1.640	259.120	<400
		3DH5	3	2.890	273.972	<400

Observation Period:

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

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)

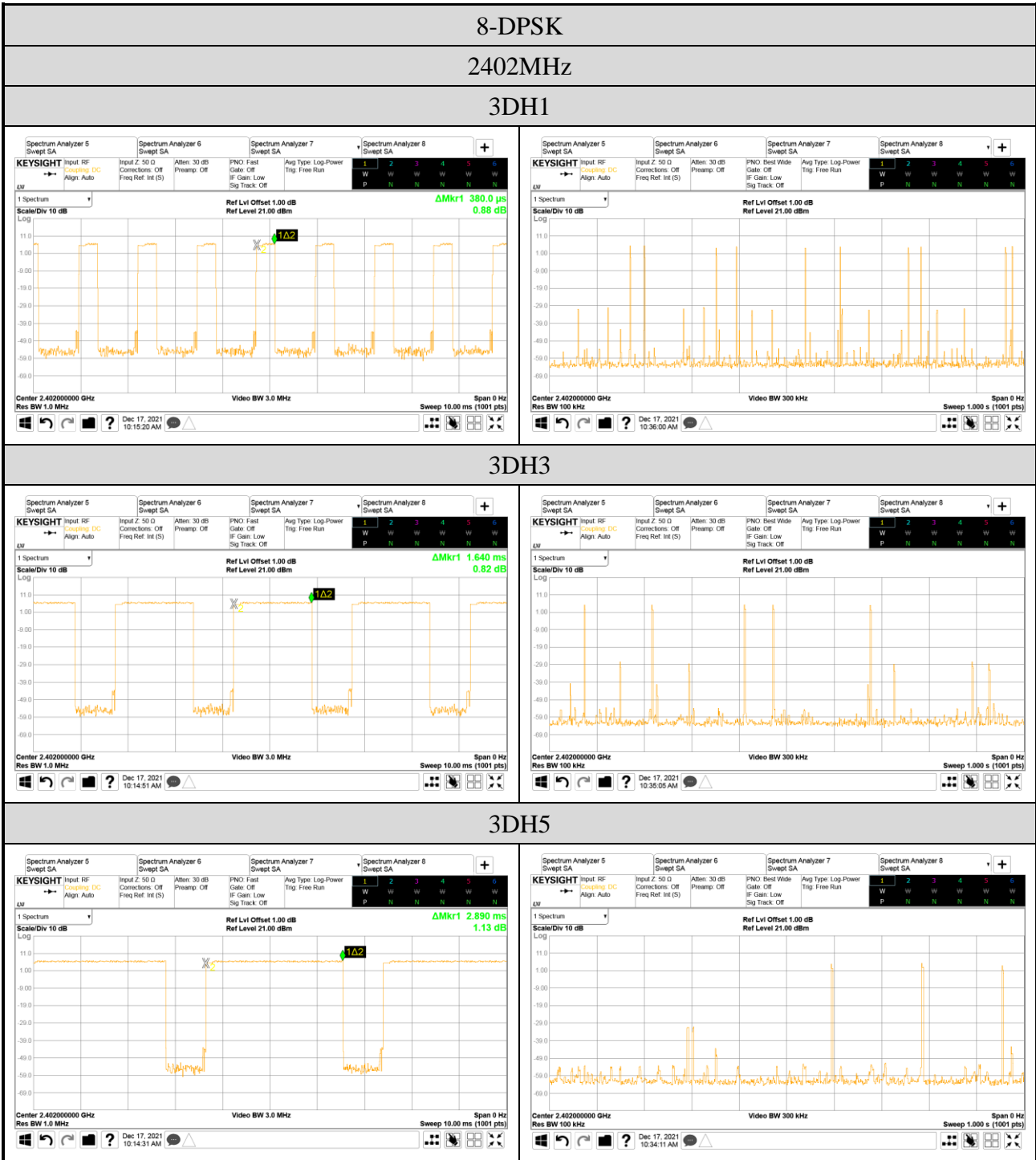
3DH3 Mode

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)

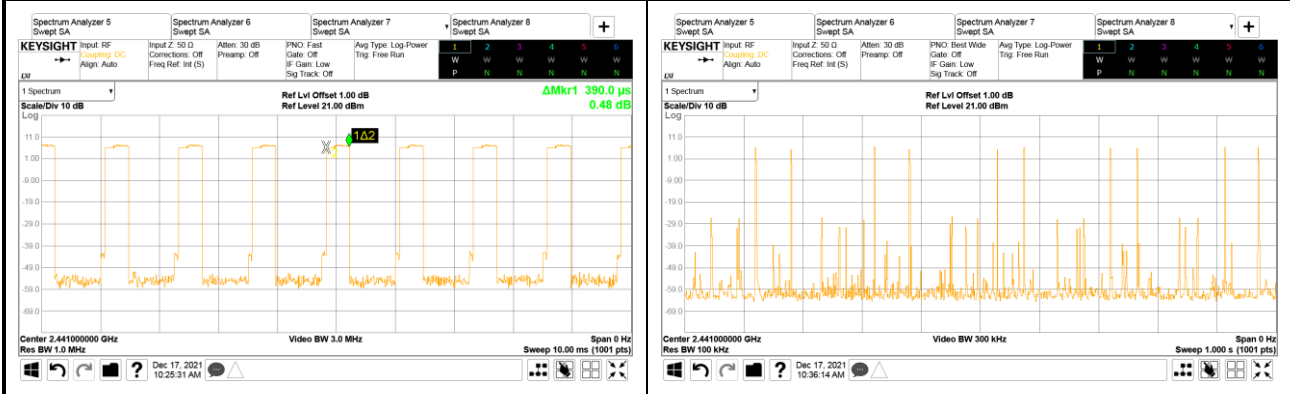
● Measurement Plots



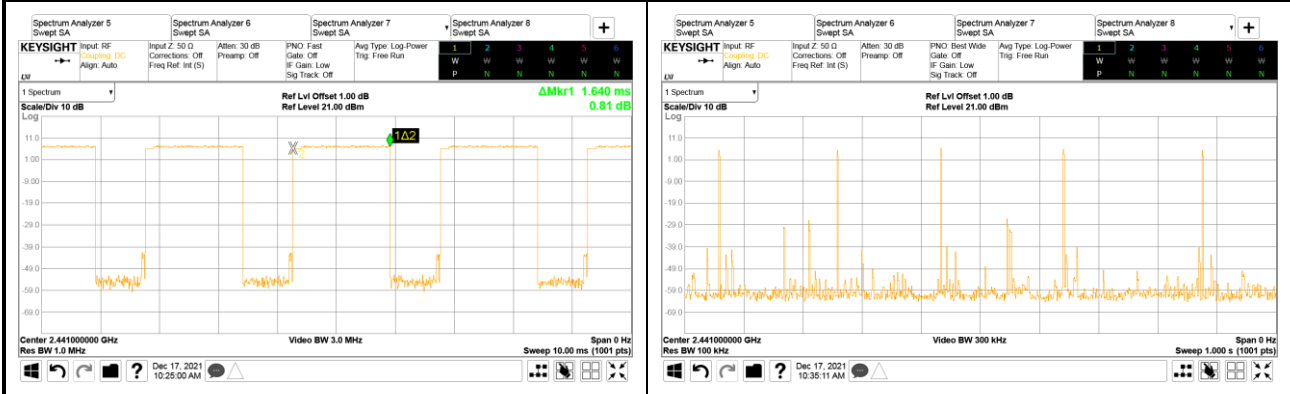
8-DPSK

2441MHz

3DH1



3DH3



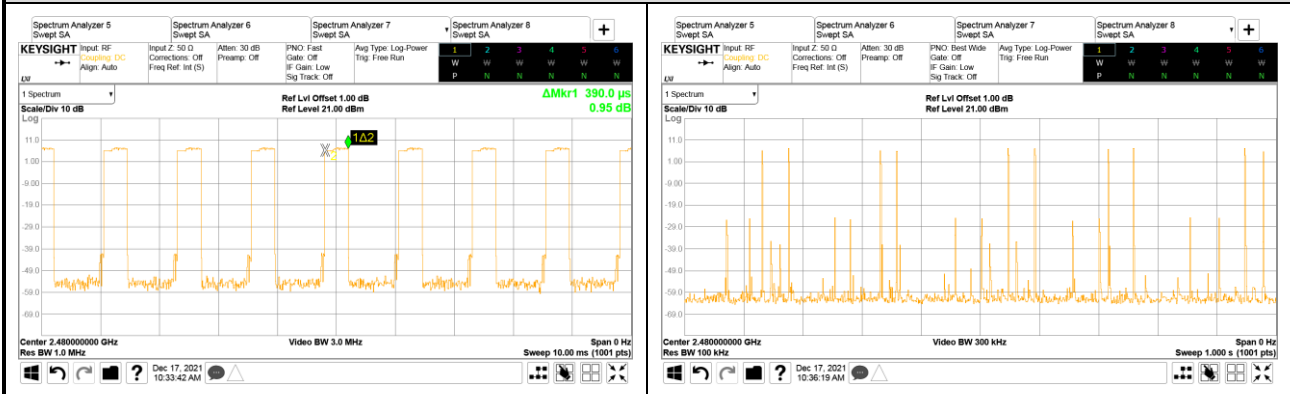
3DH5



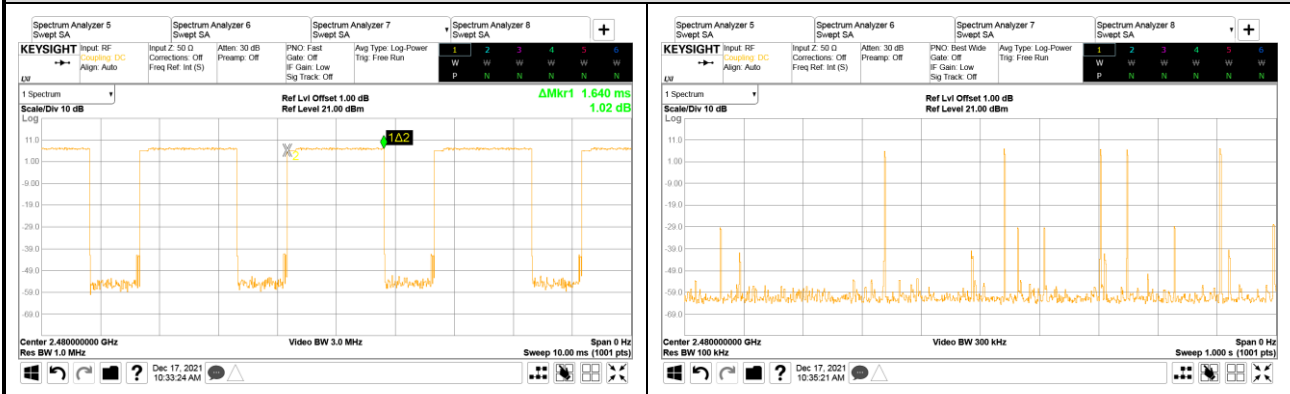
8-DPSK

2480MHz

3DH1



3DH3

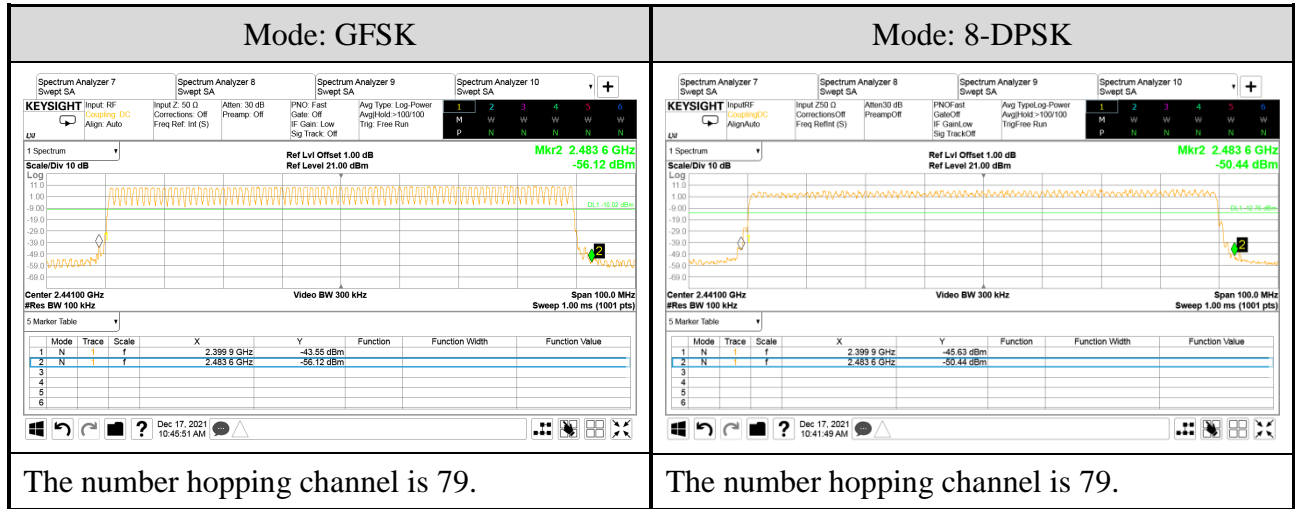


3DH5



A.6 NUMBER OF HOPPING CHANNELS

Test Date	2021/12/17	Temp./Hum.	21°C/60%
Cable Loss	1.00dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		



A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2021/12/17, 2022/02/14	Temp./Hum.	21°C/60%, 18°C/75%
Cable Loss	1.00dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.7.1 Maximum Peak Output Power

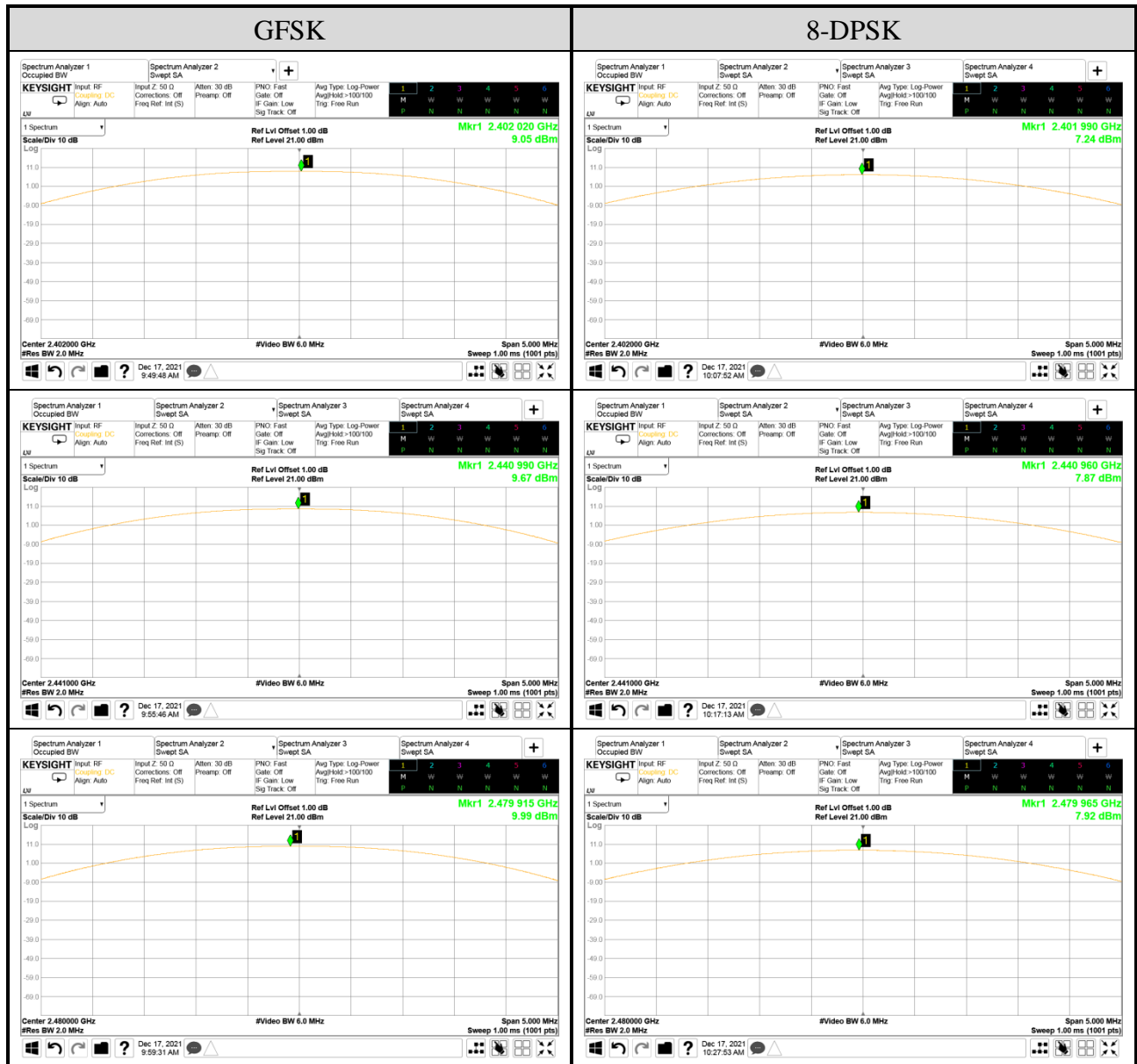
● SPOT CHECK Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	9.11	0.008	21dBm (0.125W)
	2441	9.23	0.008	
	2480	9.55	0.009	
8-DPSK	2402	7.15	0.005	
	2441	7.46	0.006	
	2480	7.85	0.006	

● FCC ID: BEJNT-16Z90Q & IC: 2703H-16Z90Q Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	9.05	0.008	21dBm (0.125W)
	2441	9.67	0.009	
	2480	9.99	0.010	
8-DPSK	2402	7.24	0.005	
	2441	7.87	0.006	
	2480	7.92	0.006	

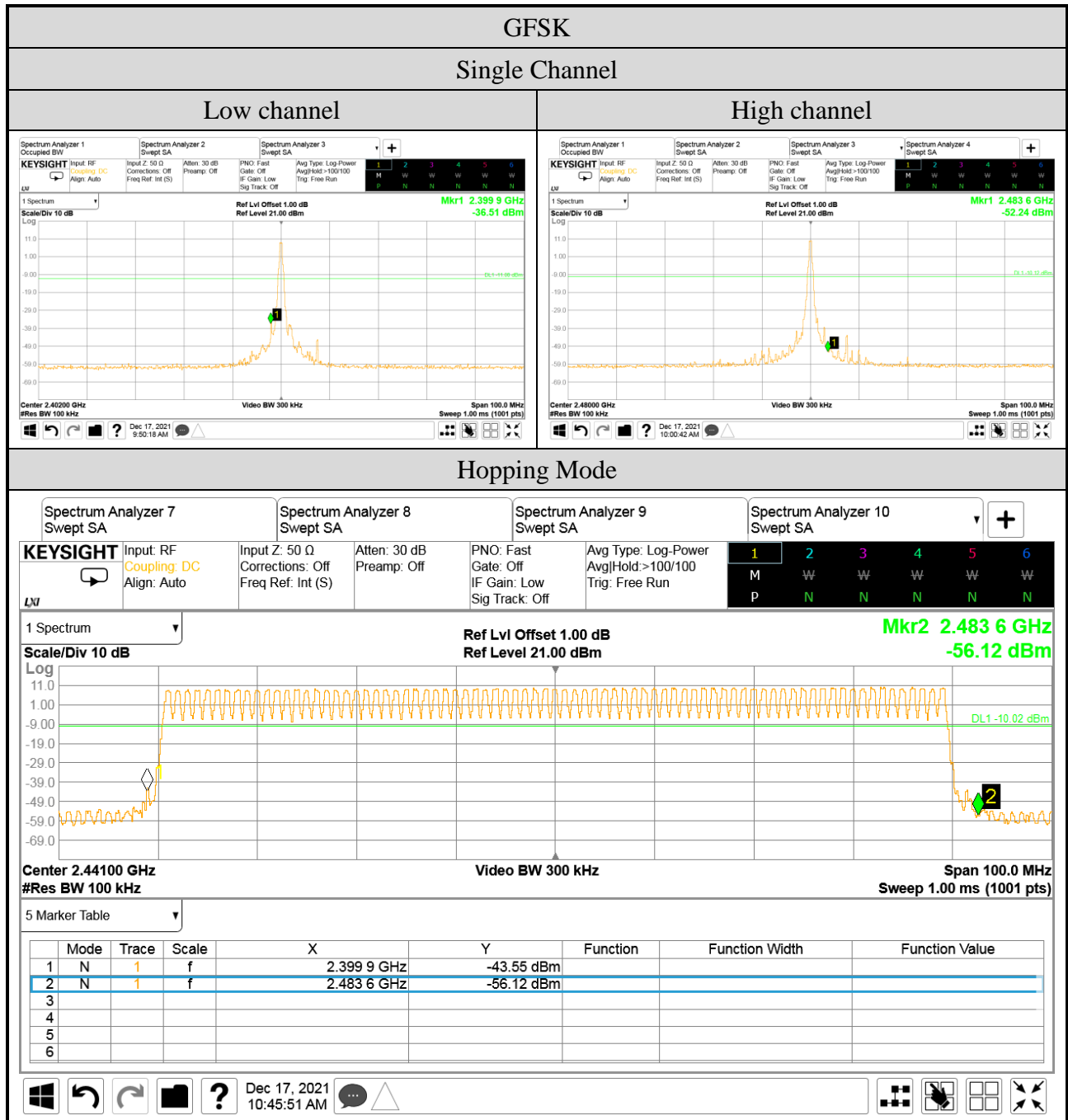
A.7.2 Measurement Plots

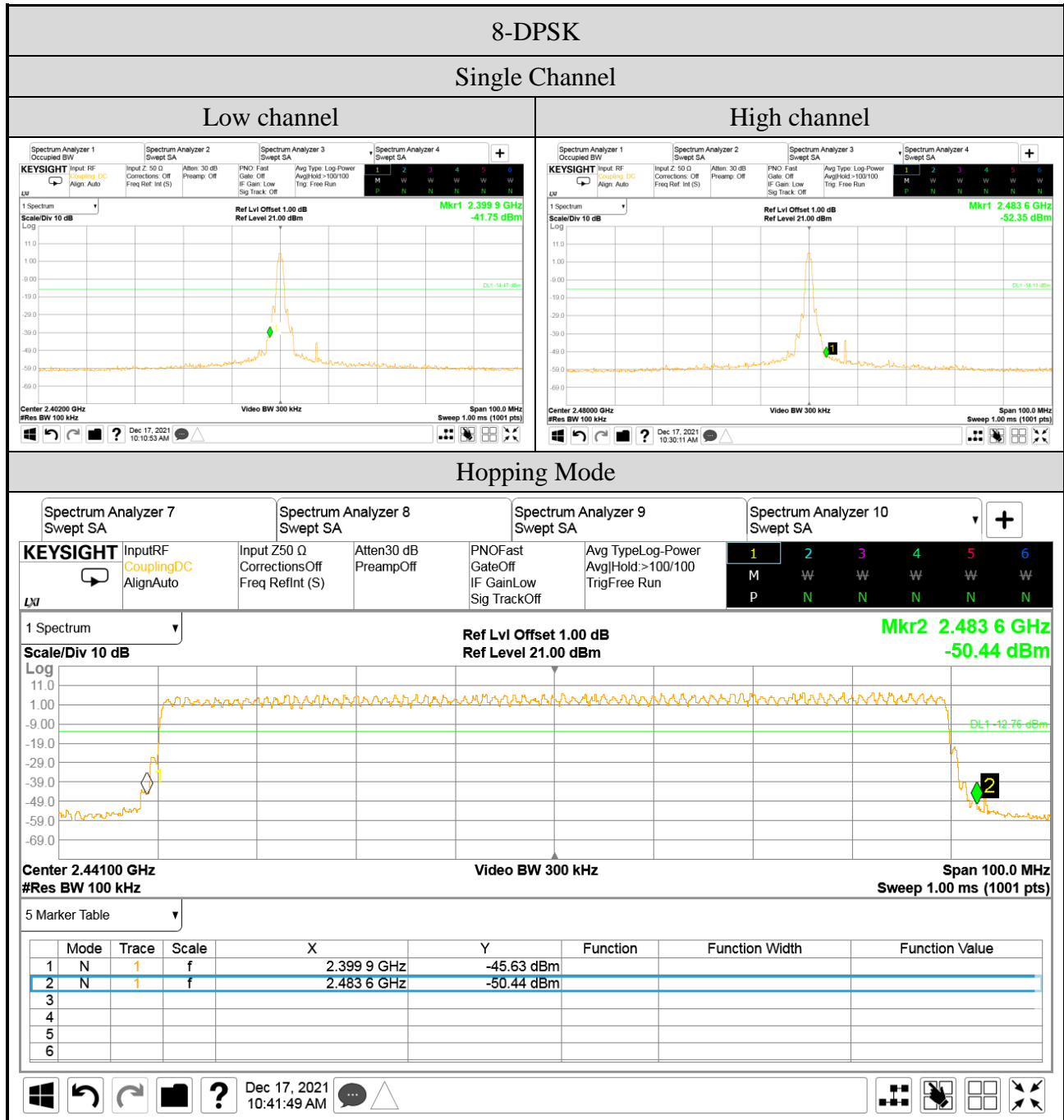


A.8 EMISSION LIMITATIONS MEASUREMENT

Test Date	2021/12/17	Temp./Hum.	21°C/60%
Cable Loss	1.00dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge

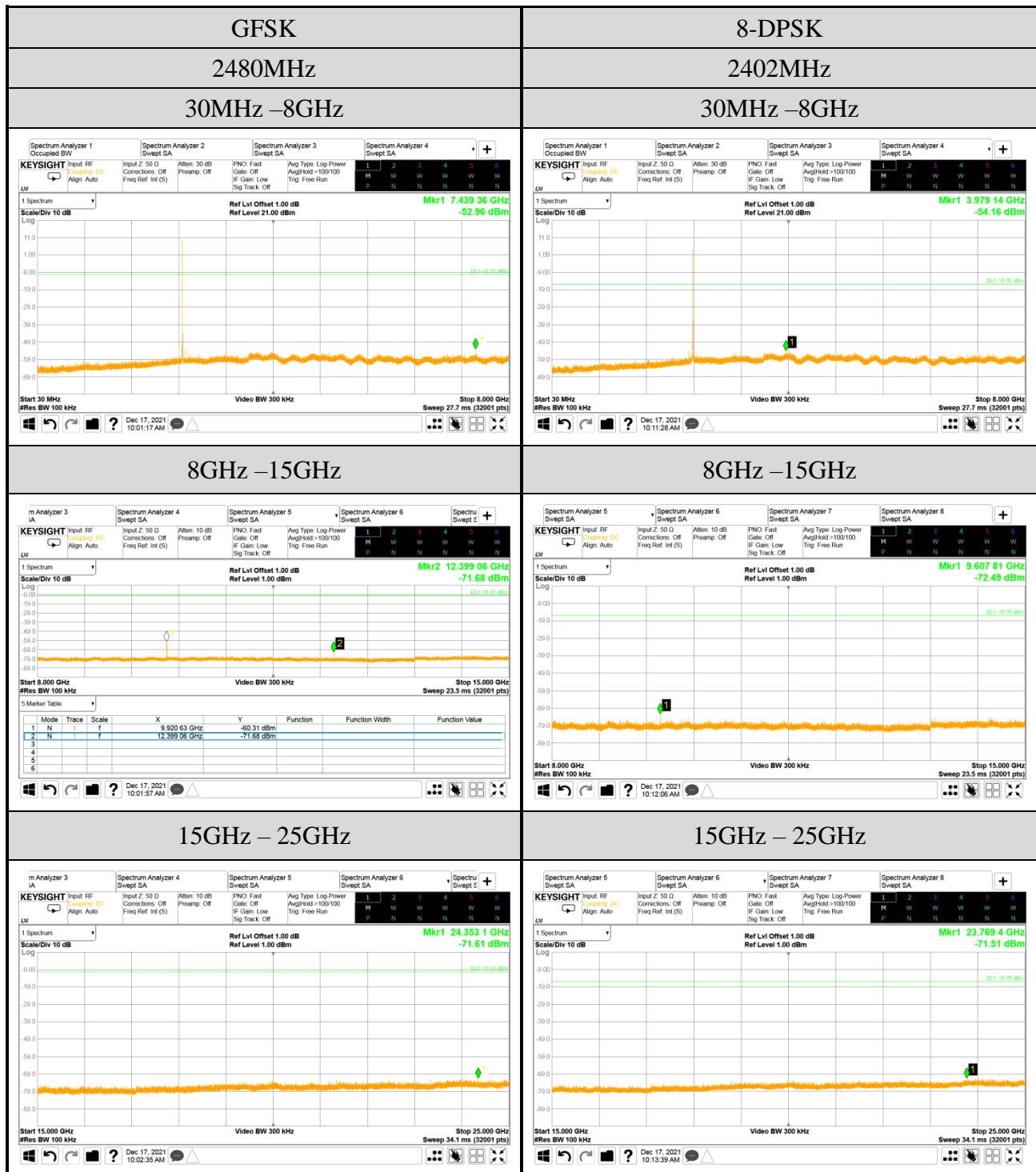




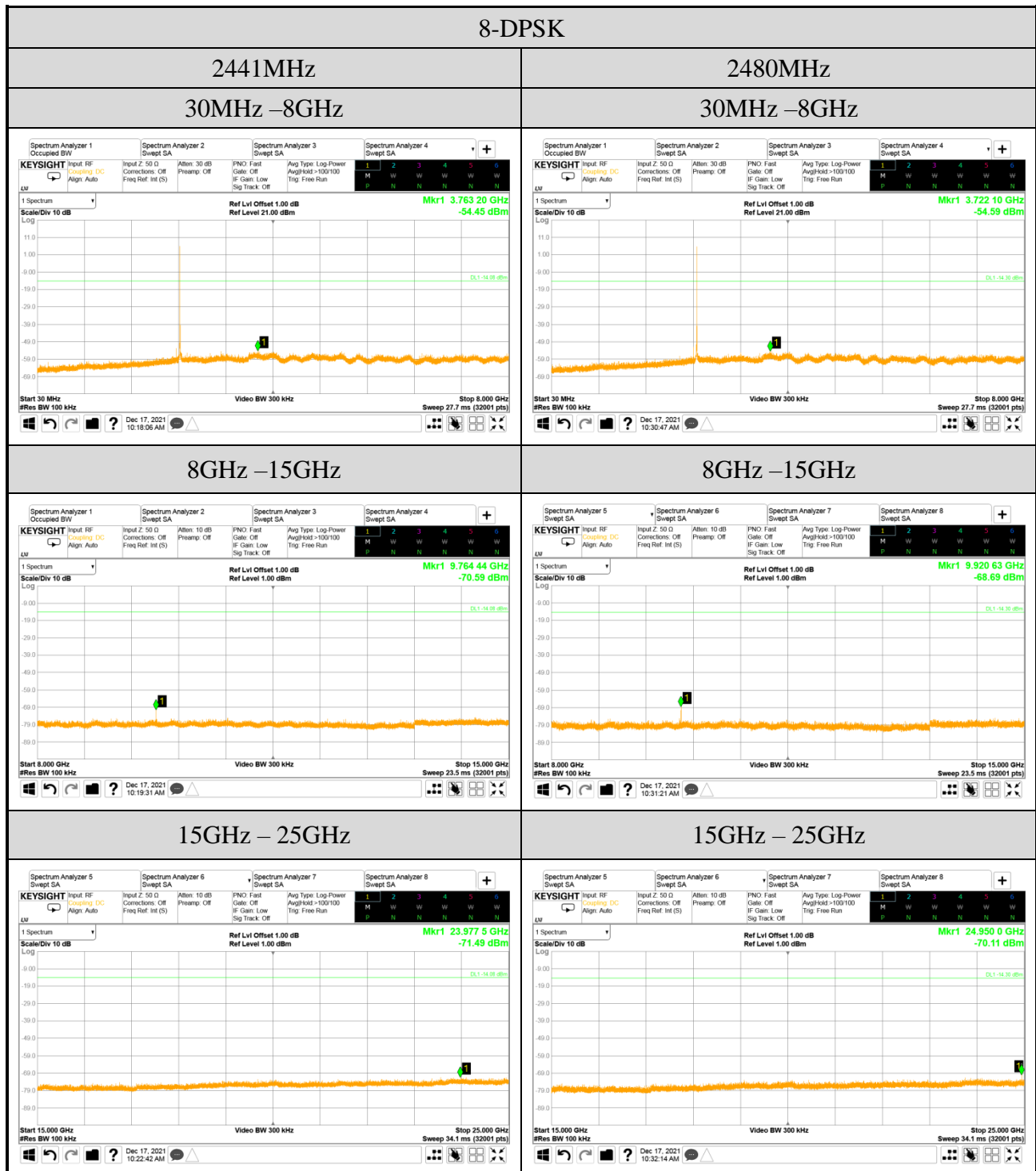
A.8.2 Spurious Emission



Note: All results have been included cable loss.



Note: All results have been included cable loss.



Note: All results have been included cable loss.