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APPENDIX A

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APPDNDIX A

TEST DATA AND PLOTS

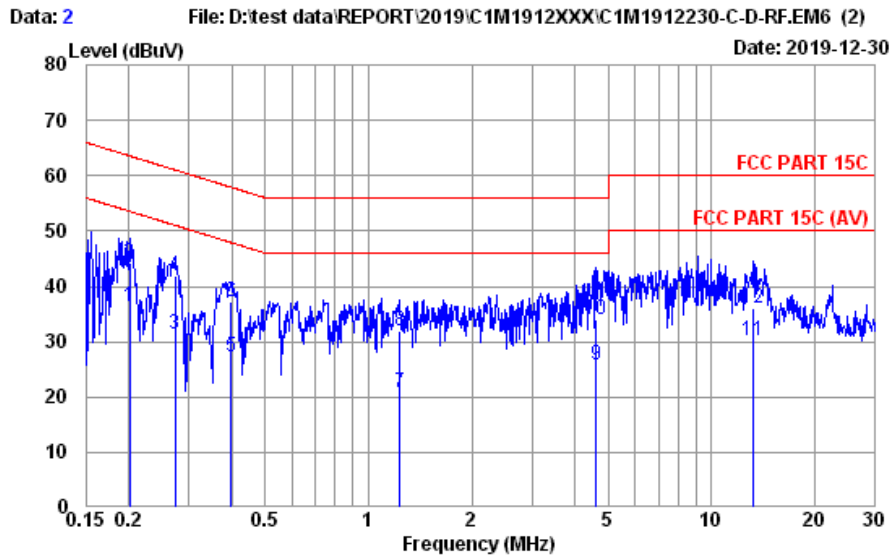
(Model: 17Z995)

TABLE OF CONTENTS

A.1 CONDUCTED EMISSION	2
A.2 RADIATED EMISSION	4
A.2.1 Emissions within Restricted Frequency Bands.....	4
A.2.2 Emissions outside the frequency band:.....	13
A.2.3 Emissions in Non-restricted Frequency Bands:.....	14
A.3 20dB BANDWIDTH	15
A.3.1 6dB Bandwidth Result.....	15
A.3.2 Measurement Plots	16
A.4 CARRIER FREQUENCY SEPARATION	17
A.5 TIME OF OCCUPANCY	19
A.5.1 Time of Occupancy	19
A.6 NUMBER OF HOPPING CHANNELS	29
A.7 MAXIMUM PEAK OUTPUT POWER	30
A.7.1 Maximum Peak Output Power	30
A.7.2 Measurement Plots	31
A.8 EMISSION LIMITATIONS MEASUREMENT	32
A.8.1 Band Edge.....	32
A.8.2 Spurious Emission	34

A.1 CONDUCTED EMISSION

Test Date	2019/12/30	Temp./Hum.	25°C/58%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu

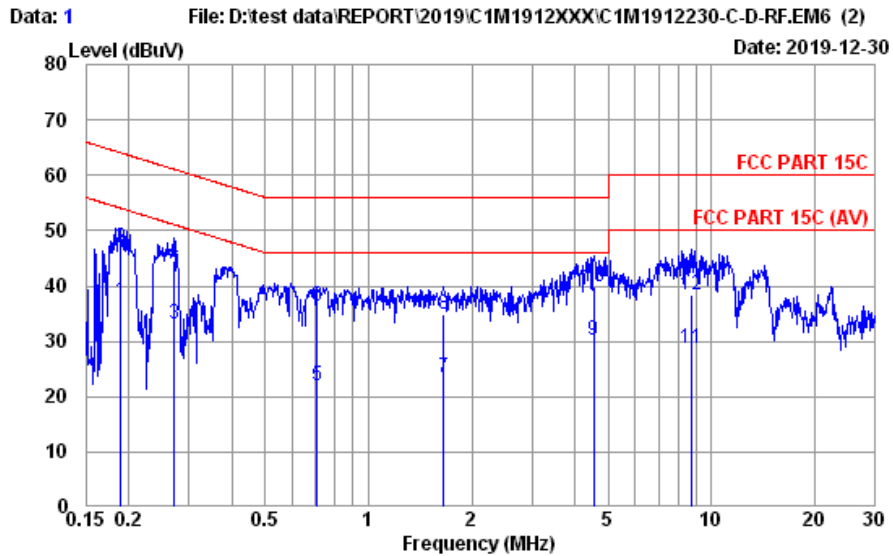


Site no. : No.8 Shielded Room Data no. : 2
 Condition : ENV4200 (169)(A) LISN Phase : NEUTRAL
 Limit : FCC PART 15C
 Env. / Ins. : 25°C / 58% ESR3 (1774) Engineer : Chucky Chiu
 EUT : 17Z995
 Power Rating : 120Vac/60Hz
 Test Mode : Operating

	ISN.	Cable	Pulse	Emission			Margin	Remark	
Freq. (MHz)	Factor (dB)	Loss (dB)	Att. (dB)	Reading (dBμV)	Level (dBμV)	Limits (dBμV)	(dB)		
1	0.202	10.65	0.04	9.86	15.90	36.45	53.54	17.09	Average
2	0.202	10.65	0.04	9.86	23.83	44.38	63.54	19.16	QP
3	0.273	10.59	0.04	9.86	10.93	31.42	51.03	19.61	Average
4	0.273	10.59	0.04	9.86	21.50	41.99	61.03	19.04	QP
5	0.398	10.52	0.04	9.86	6.94	27.36	47.90	20.54	Average
6	0.398	10.52	0.04	9.86	16.84	37.26	57.90	20.64	QP
7	1.236	10.51	0.06	9.86	0.32	20.75	46.00	25.25	Average
8	1.236	10.51	0.06	9.86	11.65	32.08	56.00	23.92	QP
9	4.598	10.79	0.10	9.87	5.14	25.90	46.00	20.10	Average
10	4.598	10.79	0.10	9.87	13.34	34.10	56.00	21.90	QP
11	13.197	12.31	0.15	9.91	7.90	30.27	50.00	19.73	Average
12	13.197	12.31	0.15	9.91	13.77	36.14	60.00	23.86	QP

Remarks: 1. Emission Level= ISN. 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	2019/12/30	Temp./Hum.	25°C/58%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Chucky Chiu



Site no. : No.8 Shielded Room Data no. : 1
 Condition : ENV4200 (169)(A) LISN Phase : LINE
 Limit : FCC PART 15C
 Env. / Ins. : 25°C / 58% ESR3 (1774) Engineer : Chucky Chiu
 EUT : 17Z995
 Power Rating : 120Vac/60Hz
 Test Mode : Operating

	ISN.	Cable	Pulse	Emission		Limits	Margin	Remark	
	Freq.	Factor	Loss	Att.	Reading	Level	(dBμV)		
	(MHz)	(dB)	(dB)	(dB)	(dBμV)	(dBμV)	(dBμV)	(dB)	
1	0.189	10.62	0.04	9.86	16.62	37.14	54.06	16.92	Average
2	0.189	10.62	0.04	9.86	26.44	46.96	64.06	17.10	QP
3	0.272	10.56	0.04	9.86	12.73	33.19	51.07	17.88	Average
4	0.272	10.56	0.04	9.86	24.16	44.62	61.07	16.45	QP
5	0.708	10.48	0.05	9.86	1.51	21.90	46.00	24.10	Average
6	0.708	10.48	0.05	9.86	15.81	36.20	56.00	19.80	QP
7	1.654	10.50	0.06	9.86	3.11	23.53	46.00	22.47	Average
8	1.654	10.50	0.06	9.86	14.55	34.97	56.00	21.03	QP
9	4.525	10.69	0.10	9.87	9.48	30.14	46.00	15.86	Average
10	4.525	10.69	0.10	9.87	19.23	39.89	56.00	16.11	QP
11	8.776	11.13	0.13	9.89	7.50	28.65	50.00	21.35	Average
12	8.776	11.13	0.13	9.89	17.31	38.46	60.00	21.54	QP

Remarks: 1. Emission Level= ISN. 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	2019/12/26	Temp./Hum.	23°C/55%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Sean Wang
		Test Model	17Z995

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 1 GHz

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
138.64	17.63	2.75	3.55	23.93	43.50	19.57	Peak
244.37	18.54	3.89	5.44	27.87	46.00	18.13	Peak
335.55	20.76	4.99	3.79	29.54	46.00	16.46	Peak
507.24	23.78	6.76	2.57	33.11	46.00	12.89	Peak
709.00	25.55	7.41	2.77	35.73	46.00	10.27	Peak
986.42	27.97	8.96	1.70	38.63	54.00	15.37	Peak

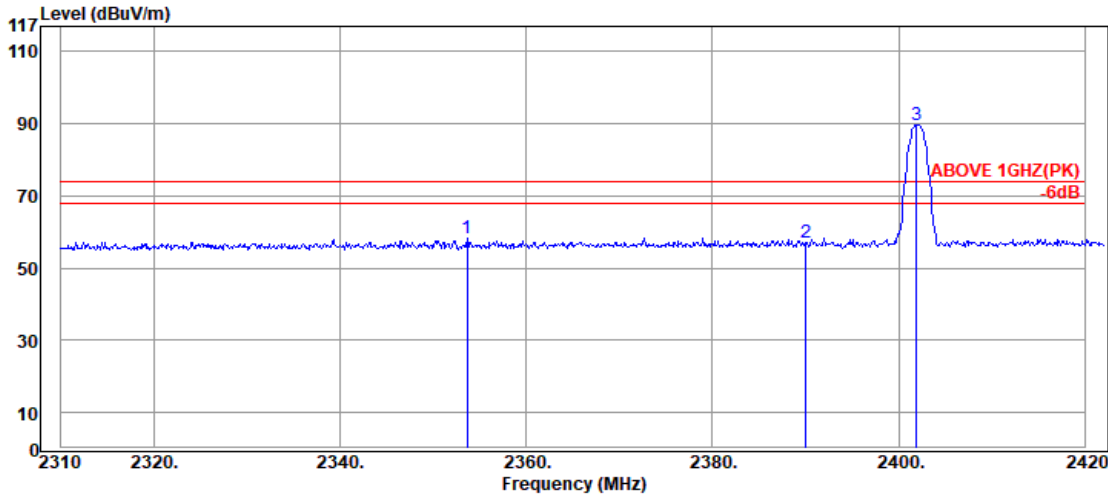
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
30.97	25.03	1.21	8.87	35.11	40.00	4.89	Peak
52.31	14.20	1.60	21.06	36.86	40.00	3.14	Peak
94.99	16.45	2.23	10.14	28.82	43.50	14.68	Peak
178.41	15.50	3.21	11.84	30.55	43.50	12.95	Peak
332.64	20.66	4.95	7.24	32.85	46.00	13.15	Peak
997.09	28.04	9.02	5.44	42.50	54.00	11.50	Peak

A.2.1.3 Frequency Above 1 GHz to 10th harmonics

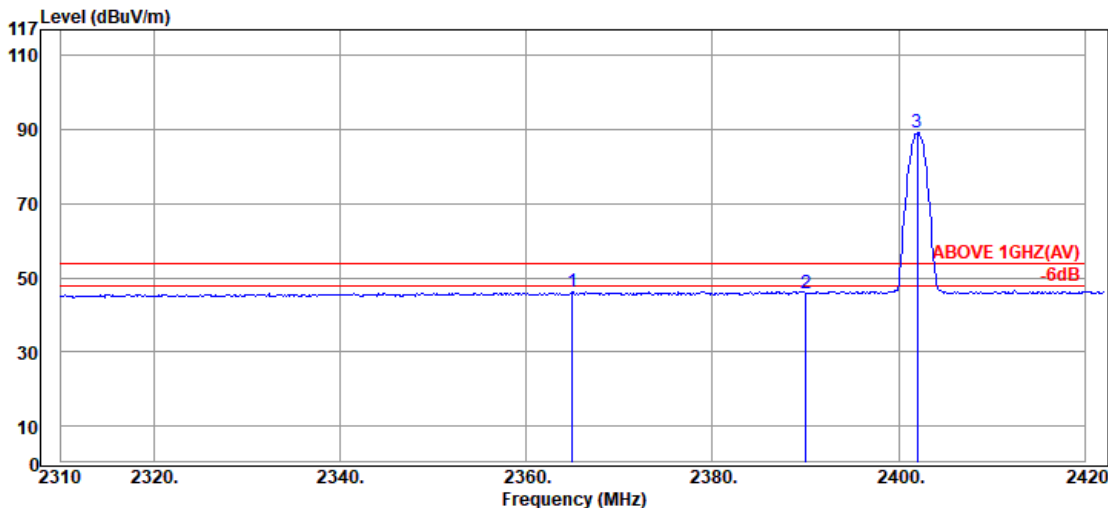
Band Edge:

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2353.68	28.03	5.98	24.33	58.34	74.00	15.66	Peak
2390.04	28.32	6.03	22.66	57.01	74.00	16.99	Peak
@ 2401.92	28.40	6.04	55.22	89.66	---	---	Peak

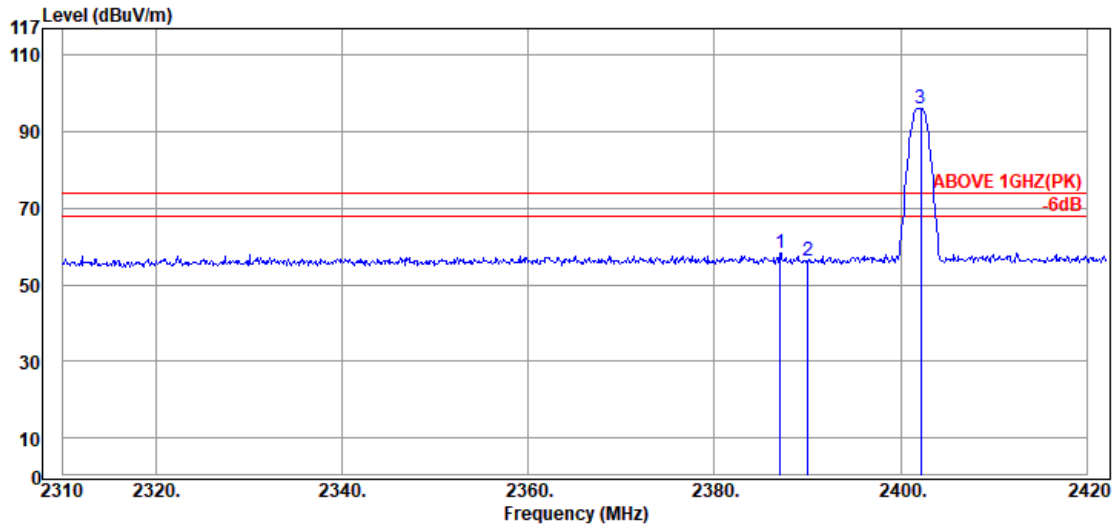


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2364.96	28.12	6.00	12.27	46.39	54.00	7.61	Average
2390.04	28.32	6.03	11.29	45.64	54.00	8.36	Average
@ 2402.04	28.40	6.04	54.64	89.08	---	---	Average

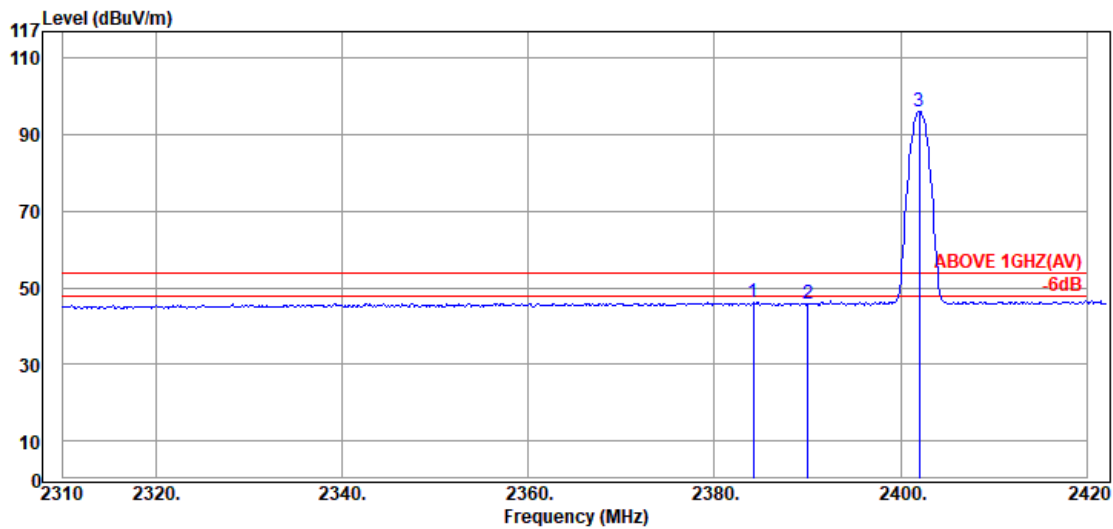
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.04	28.30	6.02	23.87	58.19	74.00	15.81	Peak
2390.04	28.32	6.03	21.81	56.16	74.00	17.84	Peak
@ 2402.16	28.40	6.04	61.79	96.23	---	---	Peak

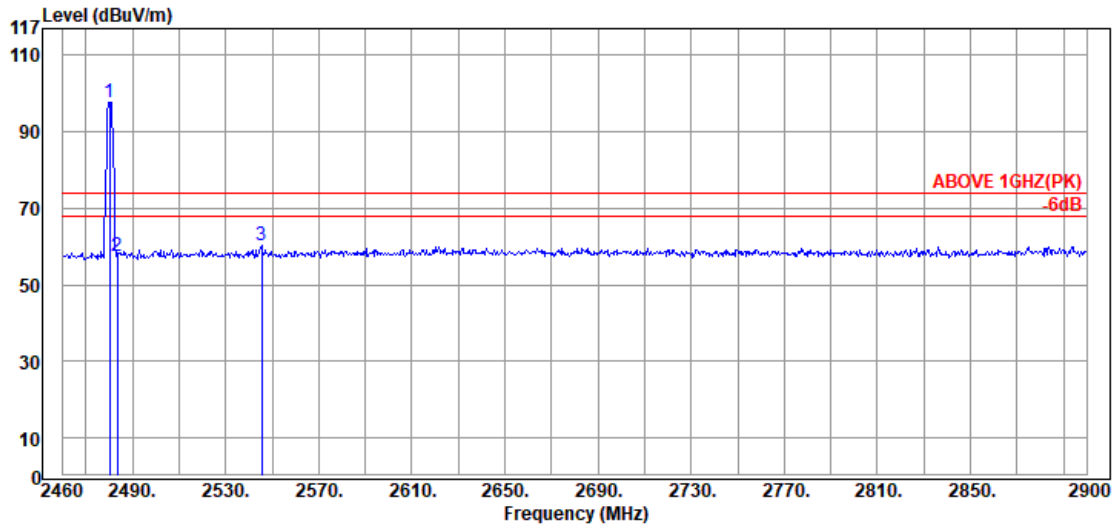


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2384.16	28.27	6.02	11.85	46.14	54.00	7.86	Average
2390.04	28.32	6.03	11.53	45.88	54.00	8.12	Average
@ 2402.04	28.40	6.04	61.52	95.96	---	---	Average

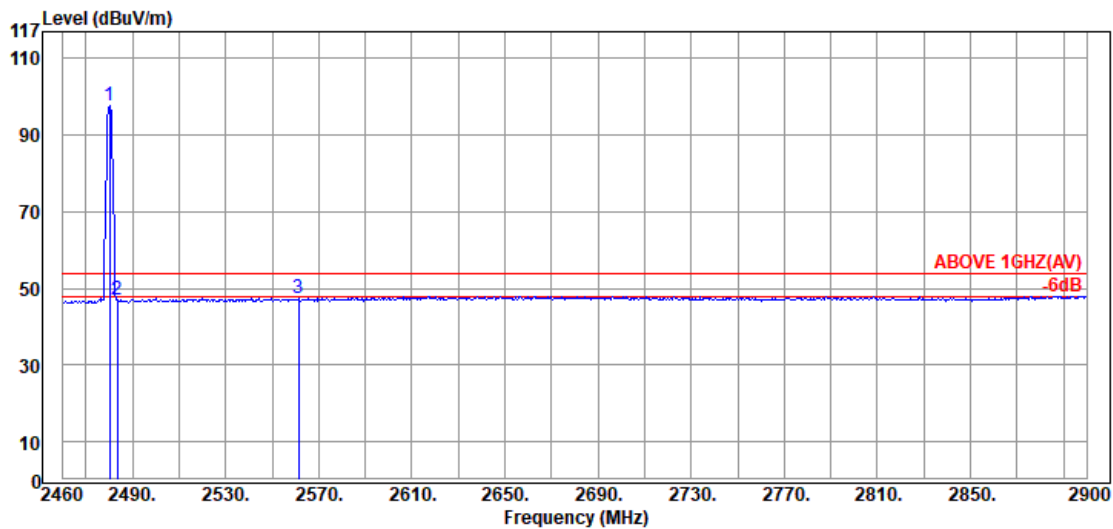
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.15	28.68	6.13	63.08	97.89	---	---	Peak
2483.30	28.70	6.13	22.56	57.39	74.00	16.61	Peak
2545.40	28.89	6.21	25.08	60.18	74.00	13.82	Peak

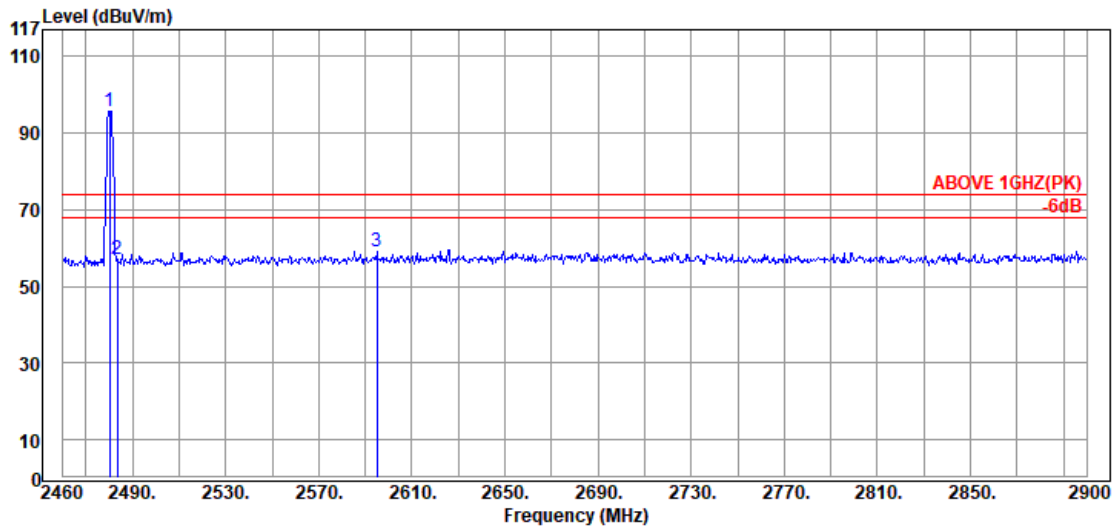


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.15	28.68	6.13	62.71	97.52	---	---	Average
2483.30	28.70	6.13	12.12	46.95	54.00	7.05	Average
2561.15	28.94	6.23	12.44	47.61	54.00	6.39	Average

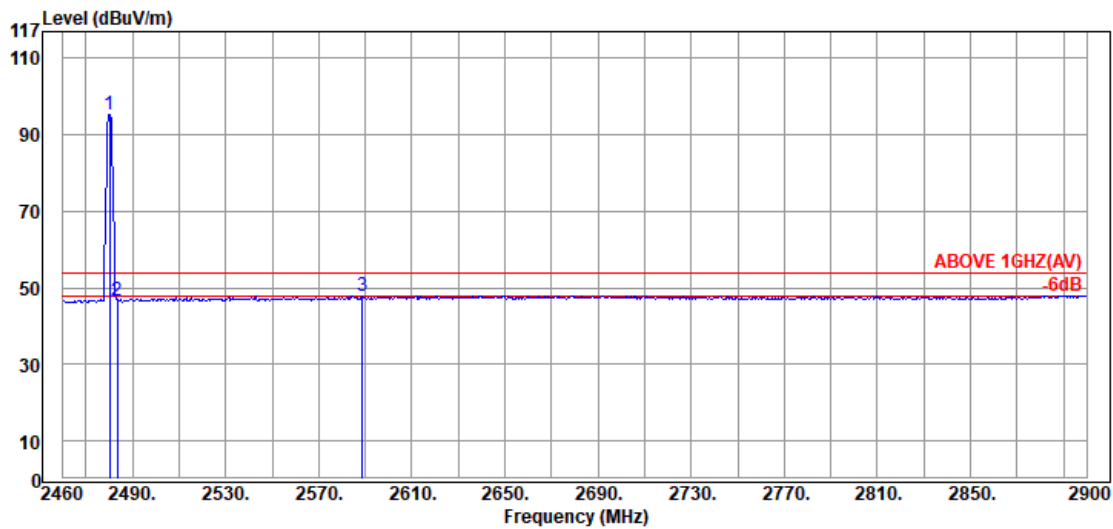
Remark: The “@” means fundamental frequency, it is ignored in this section.

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.15	28.68	6.13	60.89	95.70	---	---	Peak
	2483.30	28.70	6.13	22.10	56.93	74.00	17.07	Peak
	2594.90	29.08	6.27	23.91	59.26	74.00	14.74	Peak

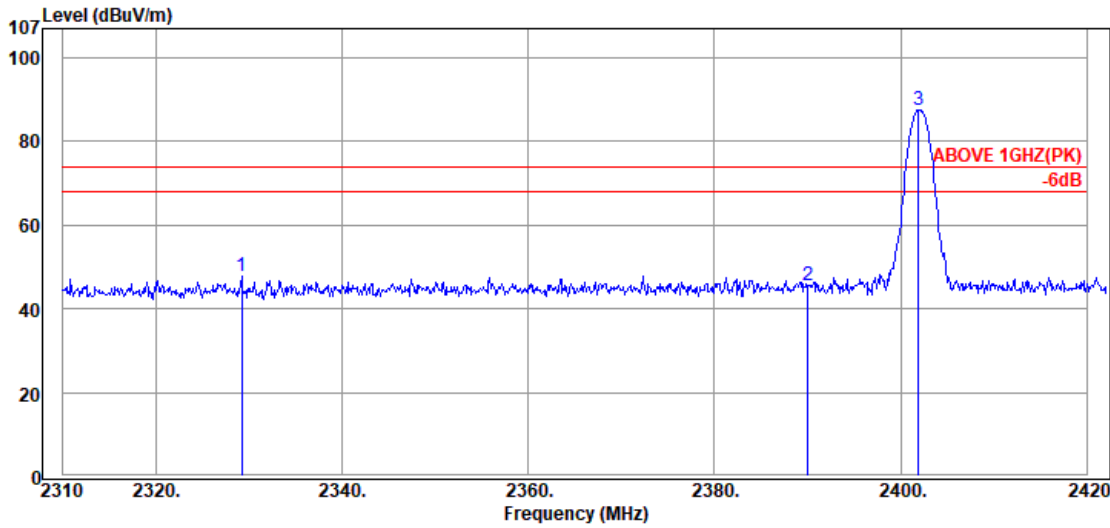


Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.15	28.68	6.13	60.59	95.40	---	---	Average
	2483.30	28.70	6.13	11.97	46.80	54.00	7.20	Average
	2588.60	29.05	6.27	12.40	47.72	54.00	6.28	Average

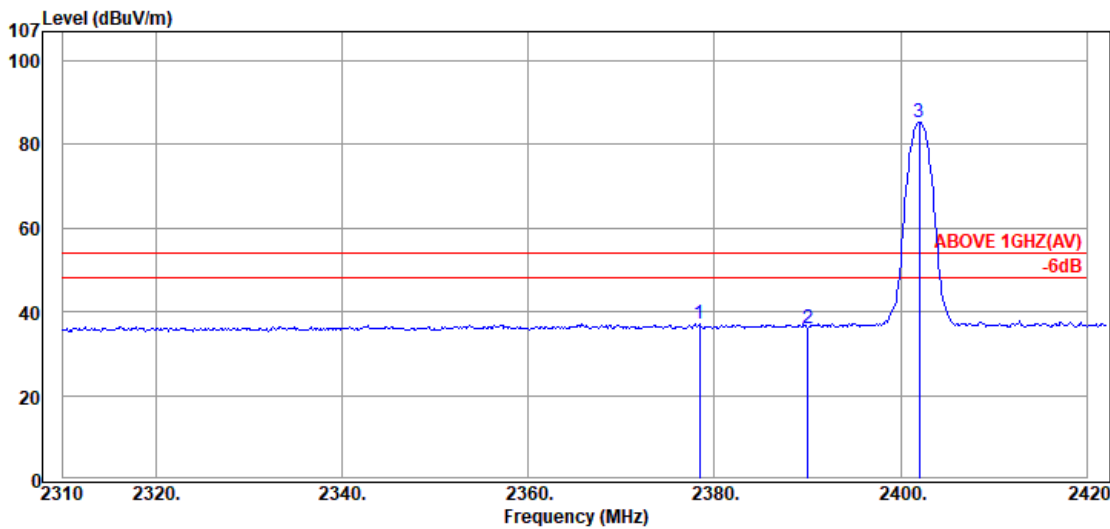
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2329.20	27.92	5.95	14.02	47.89	74.00	26.11	Peak
2390.04	28.32	6.03	11.13	45.48	74.00	28.52	Peak
@ 2401.92	28.40	6.04	53.18	87.62	---	---	Peak

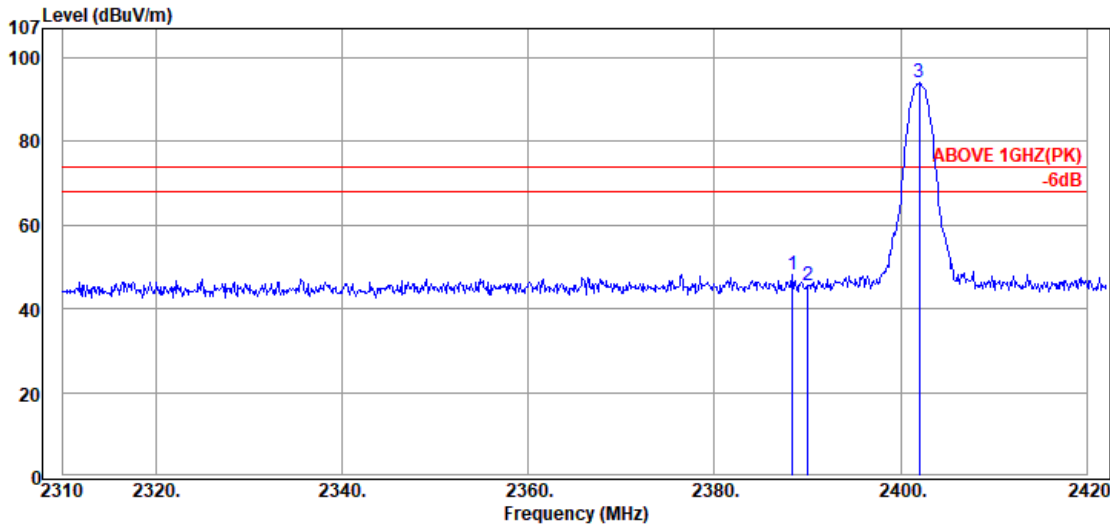


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2378.40	28.23	6.01	2.86	37.10	54.00	16.90	Average
2390.04	28.32	6.03	1.82	36.17	54.00	17.83	Average
@ 2402.04	28.40	6.04	50.79	85.23	---	---	Average

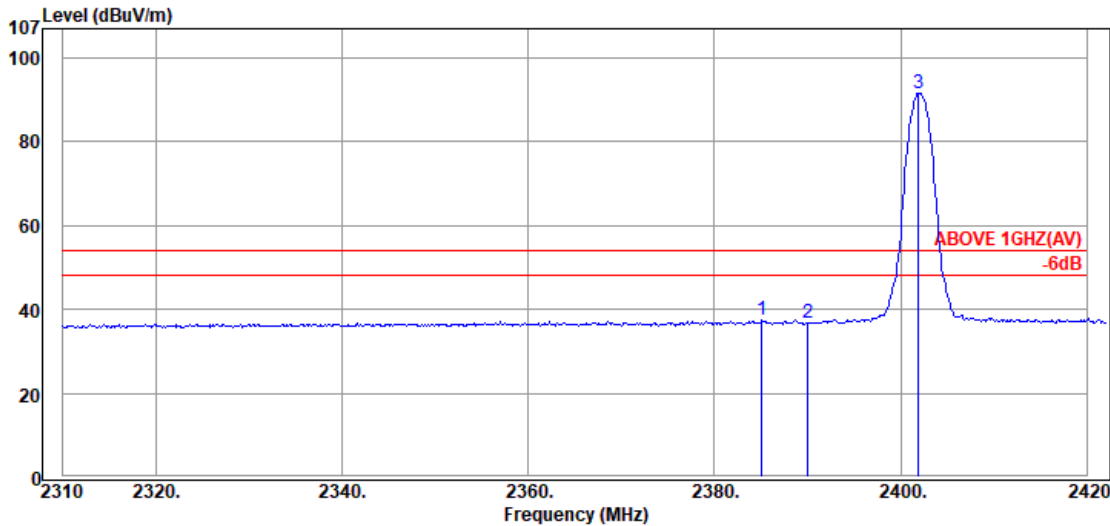
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.36	28.31	6.02	13.83	48.16	74.00	25.84	Peak
2390.04	28.32	6.03	11.10	45.45	74.00	28.55	Peak
@ 2402.04	28.40	6.04	59.56	94.00	---	---	Peak

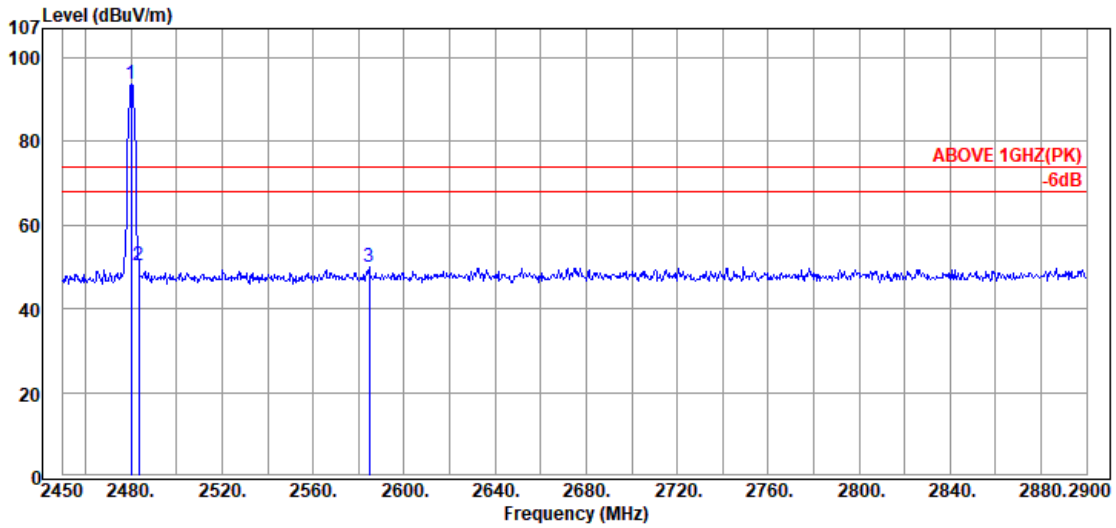


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.12	28.28	6.02	3.06	37.36	54.00	16.64	Average
2390.04	28.32	6.03	2.38	36.73	54.00	17.27	Average
@ 2401.92	28.40	6.04	57.14	91.58	---	---	Average

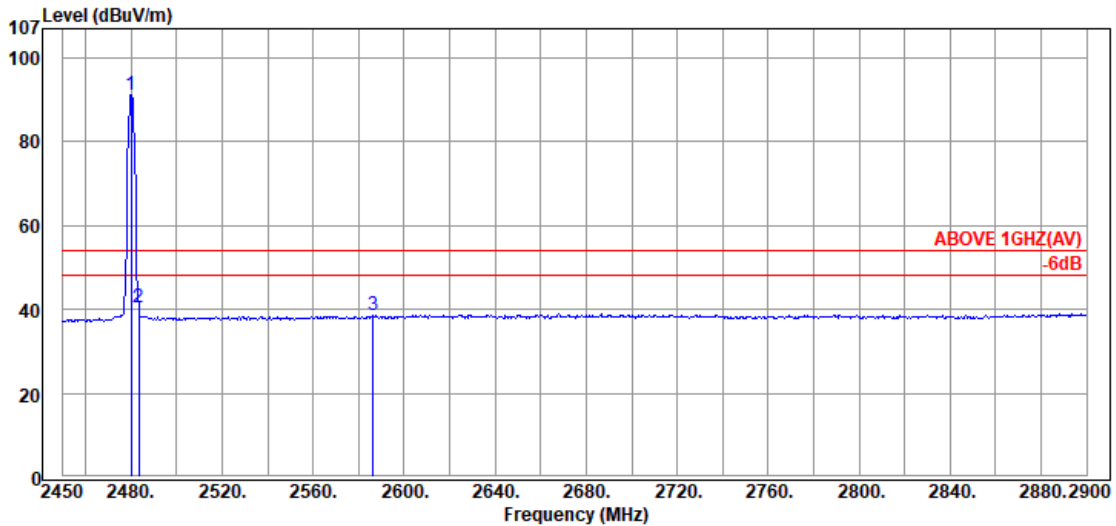
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.15	28.68	6.13	58.92	93.73	---	---	Peak
2483.30	28.70	6.13	15.55	50.38	74.00	23.62	Peak
2584.55	29.04	6.26	14.59	49.89	74.00	24.11	Peak

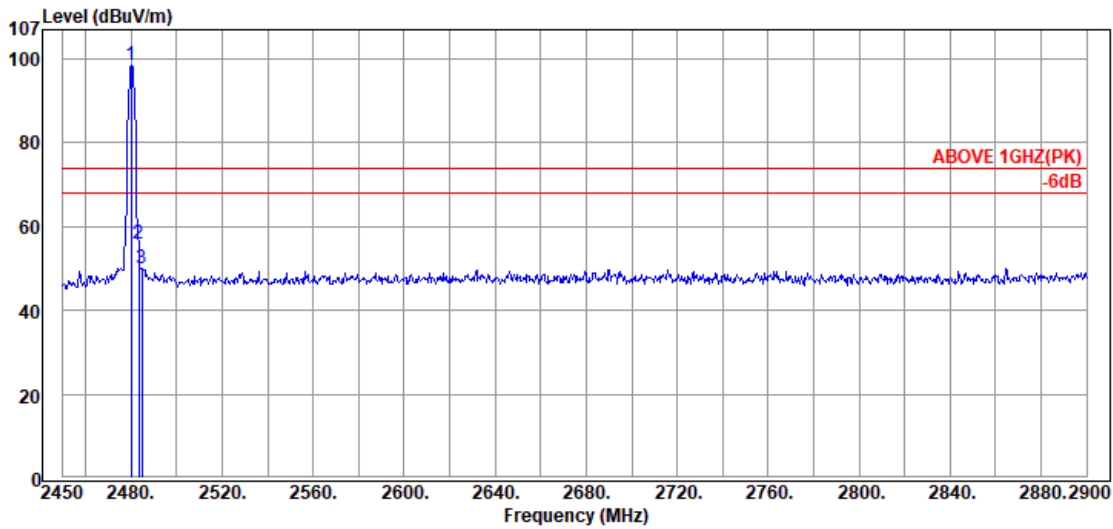


Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@ 2480.15	28.68	6.13	56.40	91.21	---	---	Average
2483.30	28.70	6.13	5.48	40.31	54.00	13.69	Average
2586.35	29.05	6.26	3.19	38.50	54.00	15.50	Average

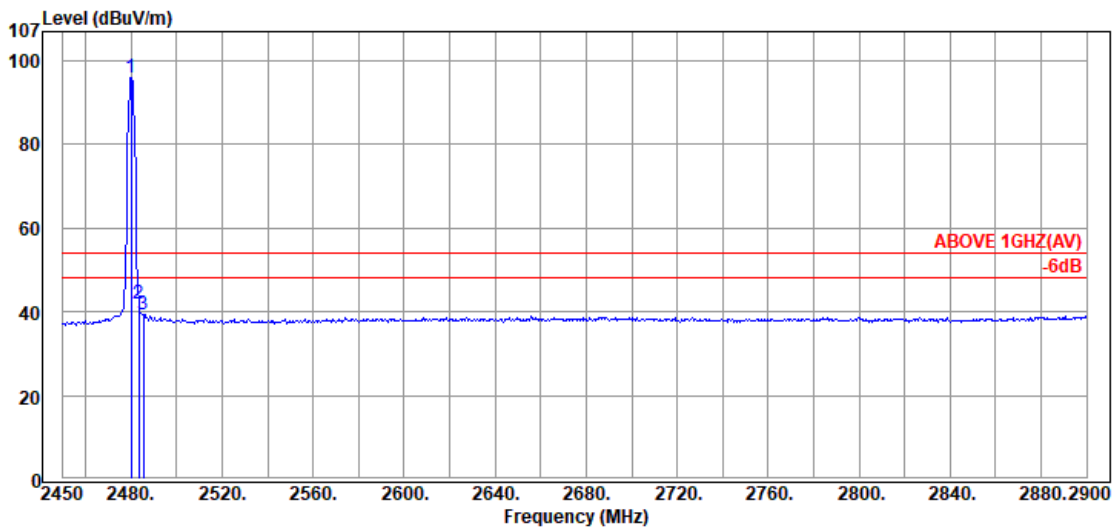
Remark: The “@” means fundamental frequency, it is ignored in this section.

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

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.15	28.68	6.13	63.69	98.50	---	---	Peak
	2483.30	28.70	6.13	21.10	55.93	74.00	18.07	Peak
	2484.65	28.71	6.13	15.11	49.95	74.00	24.05	Peak



Antenna at Vertical Polarization

	Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
@	2480.15	28.68	6.13	61.22	96.03	---	---	Average
	2483.30	28.70	6.13	7.13	41.96	54.00	12.04	Average
	2485.55	28.71	6.13	4.53	39.37	54.00	14.63	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)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4804.00	33.31	8.44	-1.48	40.27	54.00	13.73	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4804.00	33.31	8.44	-1.09	40.66	54.00	13.34	Peak

Mode	GFSK	Frequency	TX 2441MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4882.00	33.53	8.52	-1.83	40.22	54.00	13.78	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4882.00	33.53	8.52	-1.71	40.34	54.00	13.66	Peak

Mode	GFSK	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4960.00	33.72	8.60	-1.74	40.58	54.00	13.42	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4960.00	33.72	8.60	-1.65	40.67	54.00	13.33	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

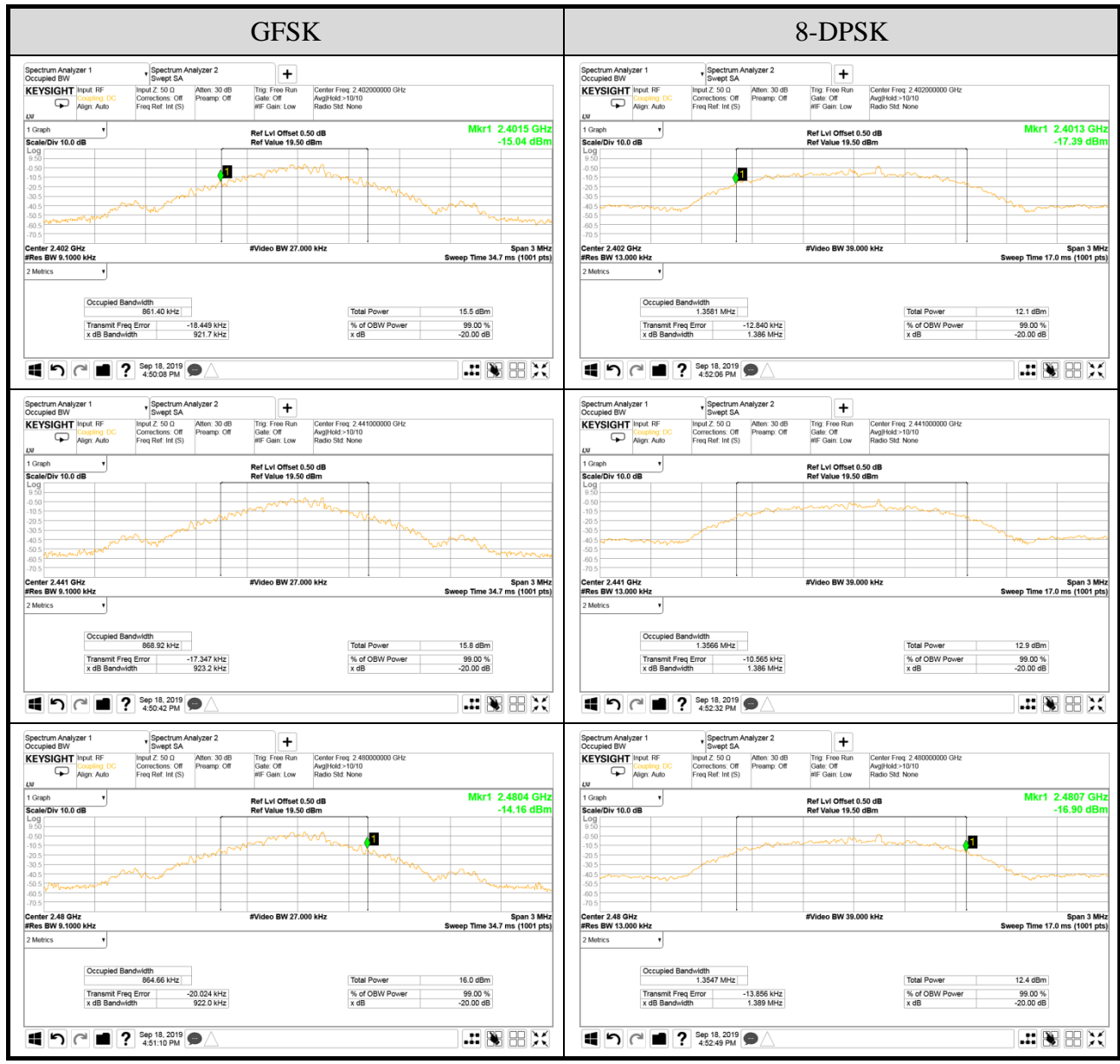
Test Date	2019/09/18	Temp./Hum.	25°C/51%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Test Model	17Z995

A.3.1 6dB Bandwidth Result

Mode	Centre Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz) (Reference only)	2/3 (20dB Bandwidth)
GFSK	2402	0.9217	0.86410	0.614
	2441	0.9232	0.86892	0.615
	2480	0.9220	0.86466	0.615
8-DPSK	2402	1.386	1.3581	0.924
	2441	1.386	1.3566	0.924
	2480	1.389	1.3547	0.926

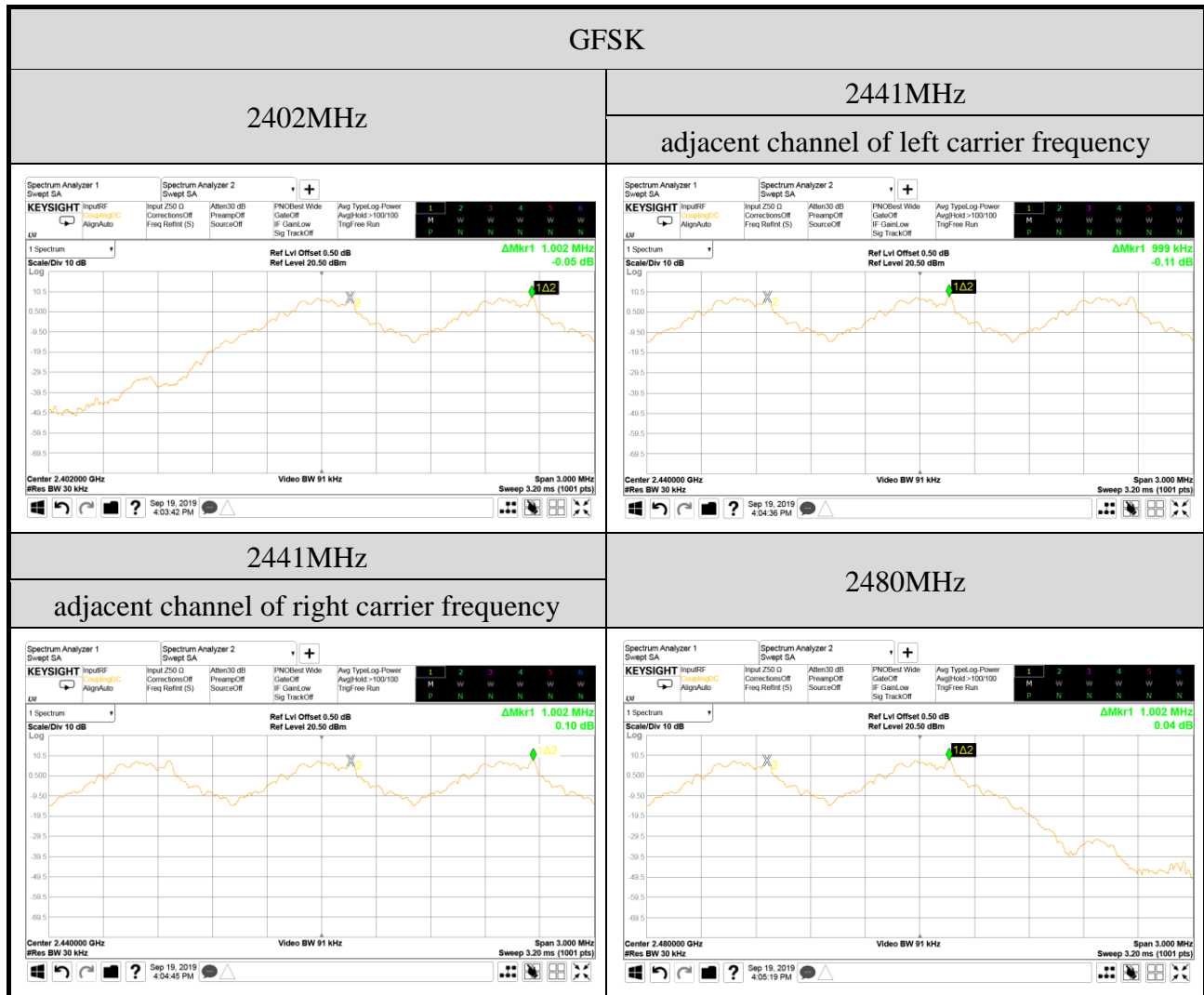
Remark: The maximum two-thirds of the 20dB bandwidth is the limit for carrier frequency separation presented.

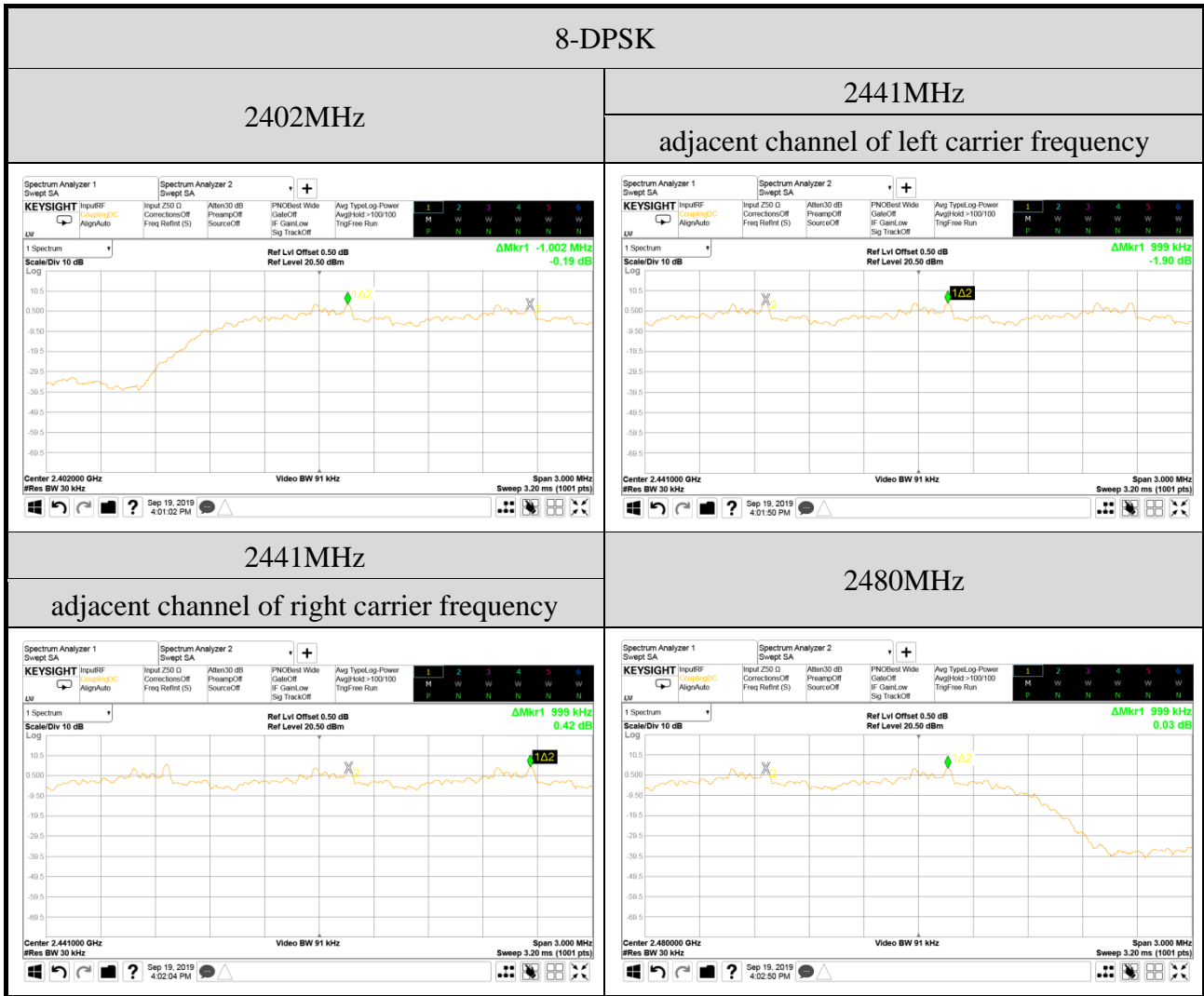
A.3.2 Measurement Plots



A.4 CARRIER FREQUENCY SEPARATION

Test Date	2019/09/19	Temp./Hum.	25°C/54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Test Model	17Z995





A.5 TIME OF OCCUPANCY

Test Date	2019/09/19	Temp./Hum.	25°C/54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Test Model	17Z995

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	1.635	258.330	<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
 $5 \text{ transmission} * 31.6 \text{ seconds} * 1.635 \text{ ms} = 258.330 \text{ ms} (<400\text{ms})$

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	2440	DH1	10	0.380	120.080	<400
		DH3	5	1.635	258.330	<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
 $5 \text{ transmission} * 31.6 \text{ seconds} * 1.635 \text{ ms} = 258.330 \text{ ms} (<400\text{ms})$

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	2480	DH1	10	0.380	120.080	<400
		DH3	5	1.635	258.330	<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
 $10 \text{ transmission} * 31.6 \text{ seconds} * 0.380 \text{ ms} = 120.080 \text{ ms} (<400\text{ms})$

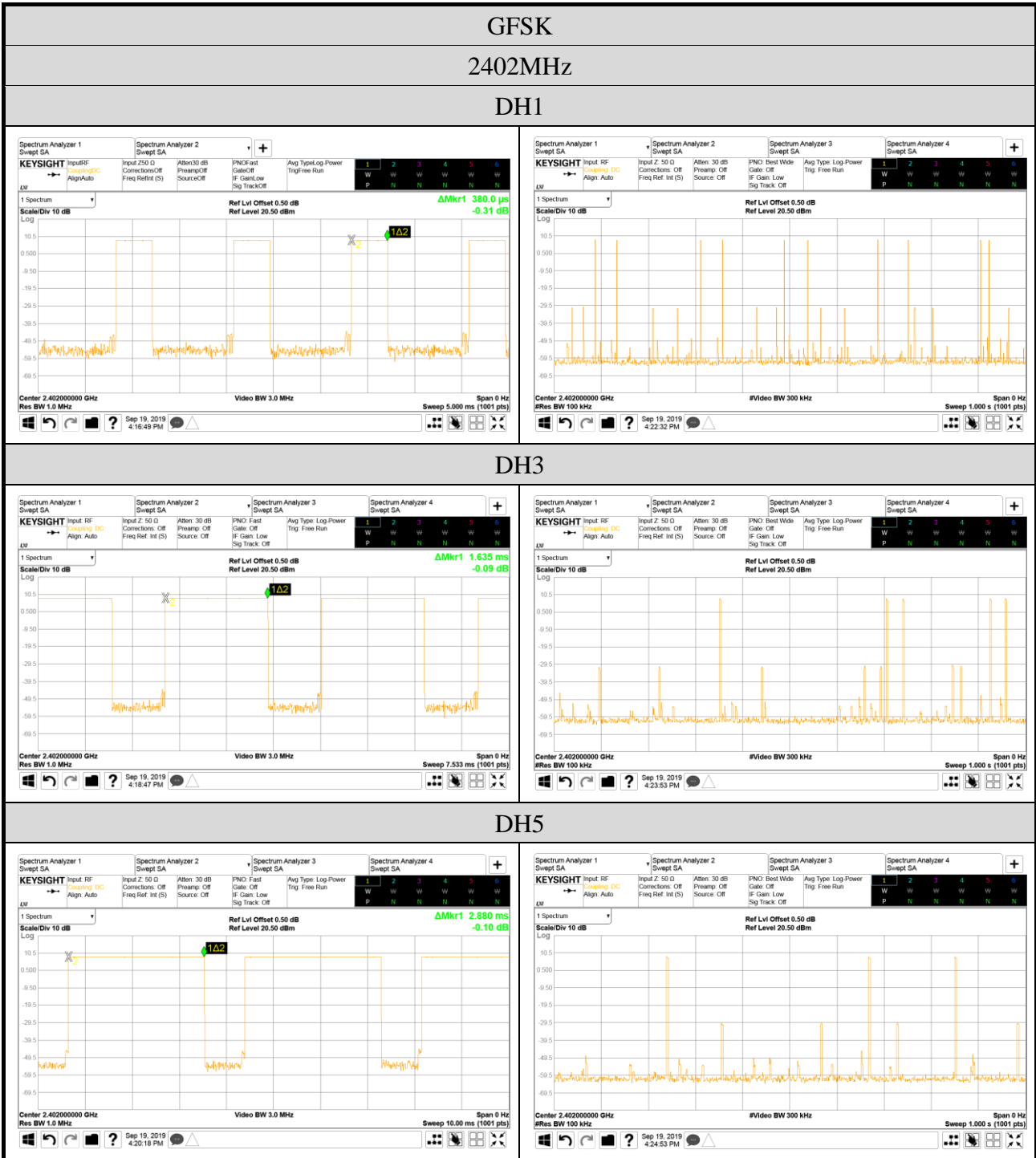
DH3 Mode

For each second of **5** transmission appearance, the longest time of occupancy is
 $5 \text{ transmission} * 31.6 \text{ seconds} * 1.635 \text{ ms} = 258.330 \text{ ms} (<400\text{ms})$

DH5 Mode

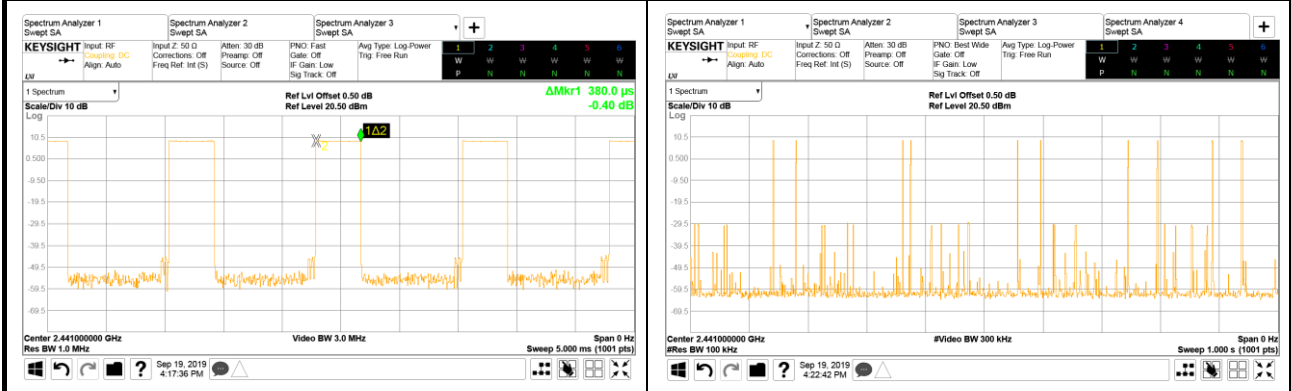
For each second of **3** transmission appearance, the longest time of occupancy is
 $3 \text{ transmission} * 31.6 \text{ seconds} * 2.880 \text{ ms} = 273.024 \text{ ms} (<400\text{ms})$

● Measurement Plots

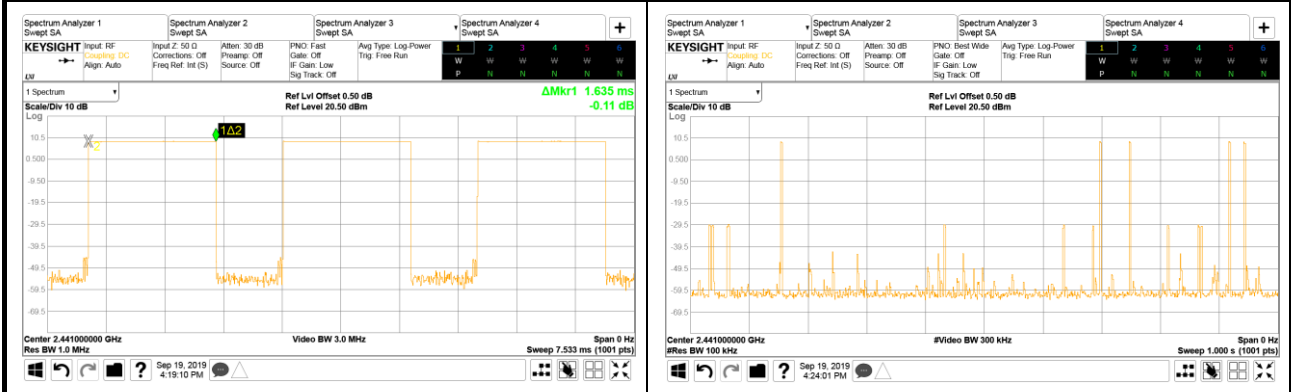


GFSK
2441MHz

DH1



DH3

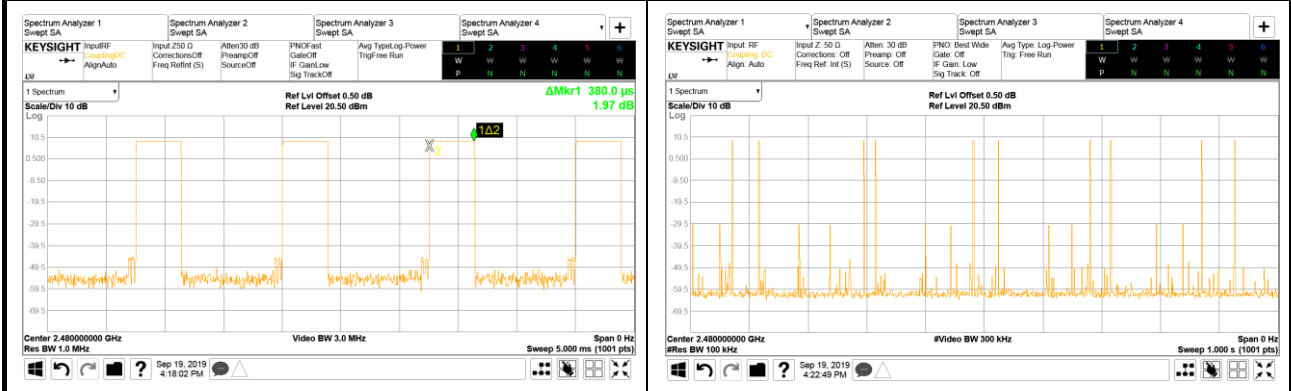


DH5

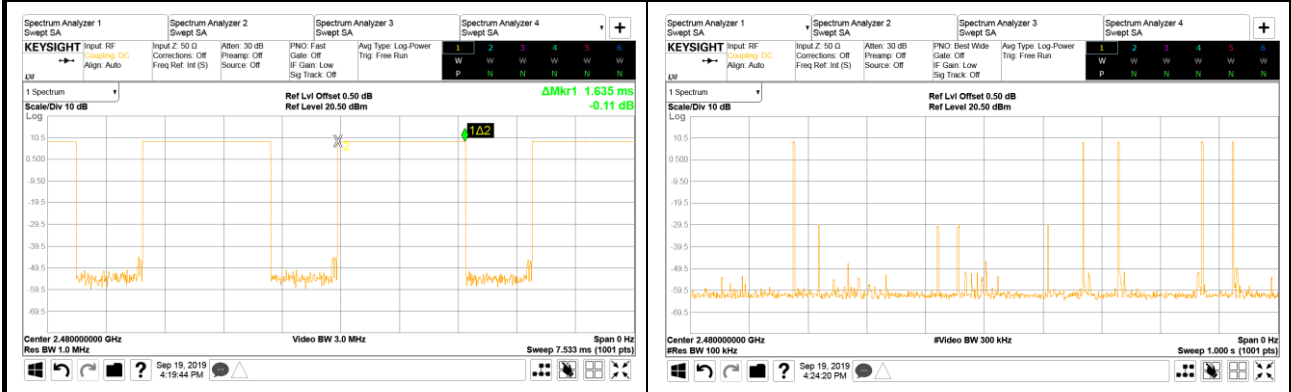


GFSK
 2480MHz

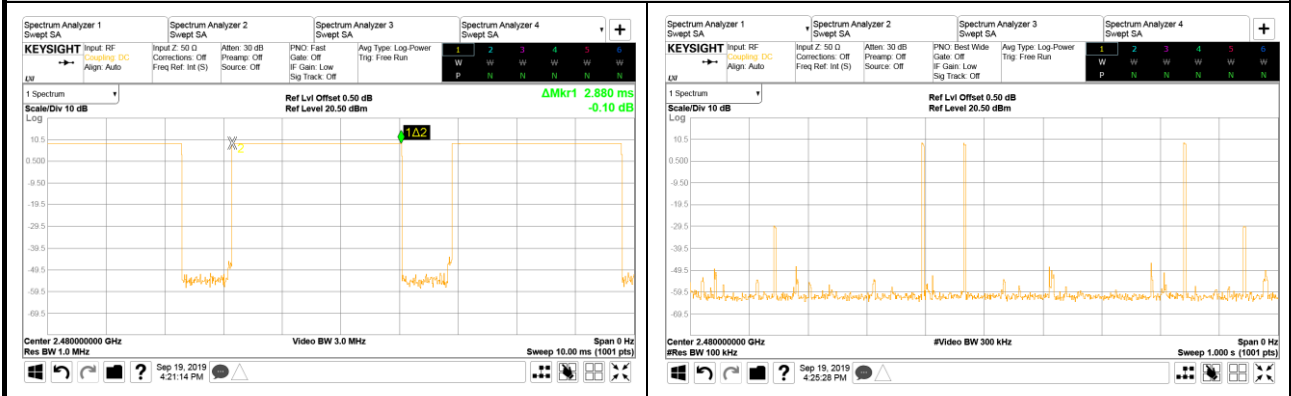
DH1



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	1.635	258.330	<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* **1.635** ms= **258.330** 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	1.635	258.330	<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* **1.635** ms= **258.330** 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	1.635	258.330	<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

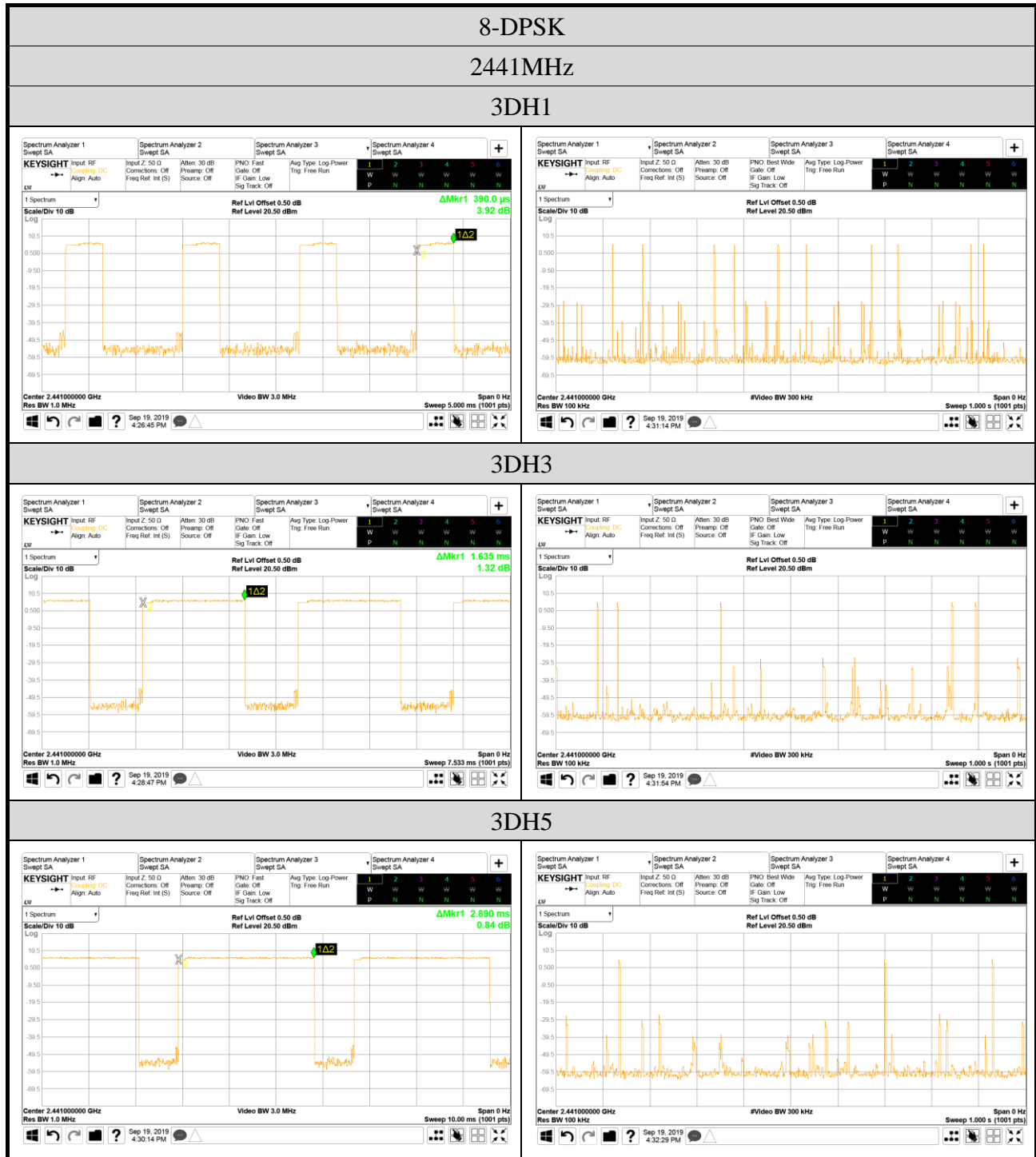
For each second of **5** transmission appearance, the longest time of occupancy is
5 transmission * **31.6** seconds * **1.635** ms = **258.330** ms (<400ms)

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

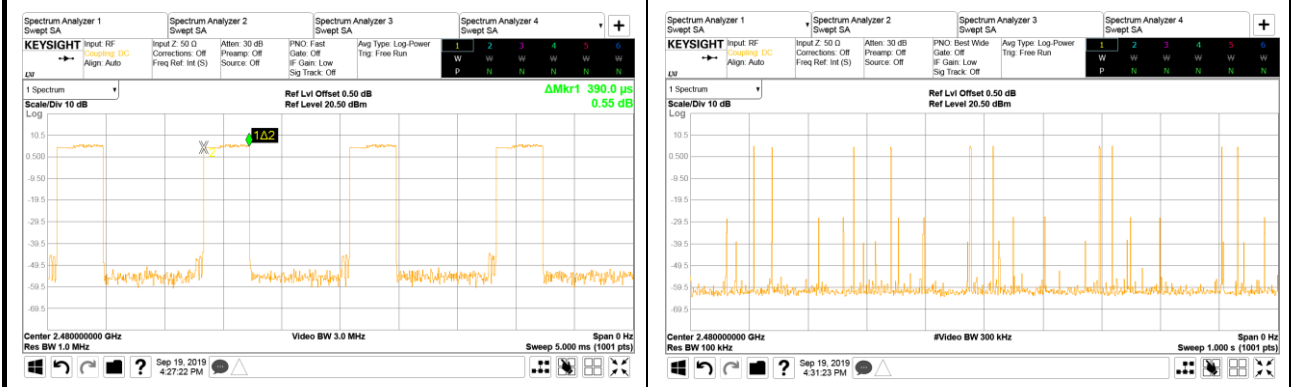




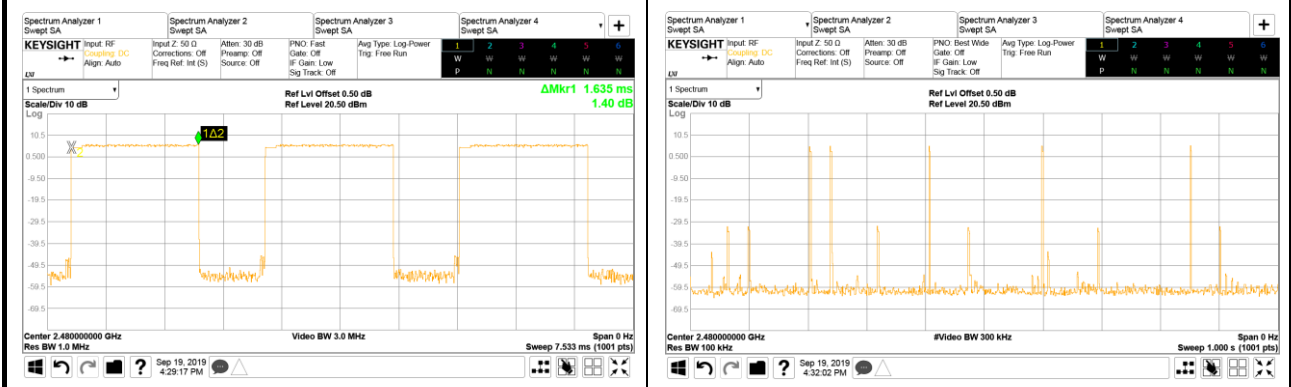
8-DPSK

2480MHz

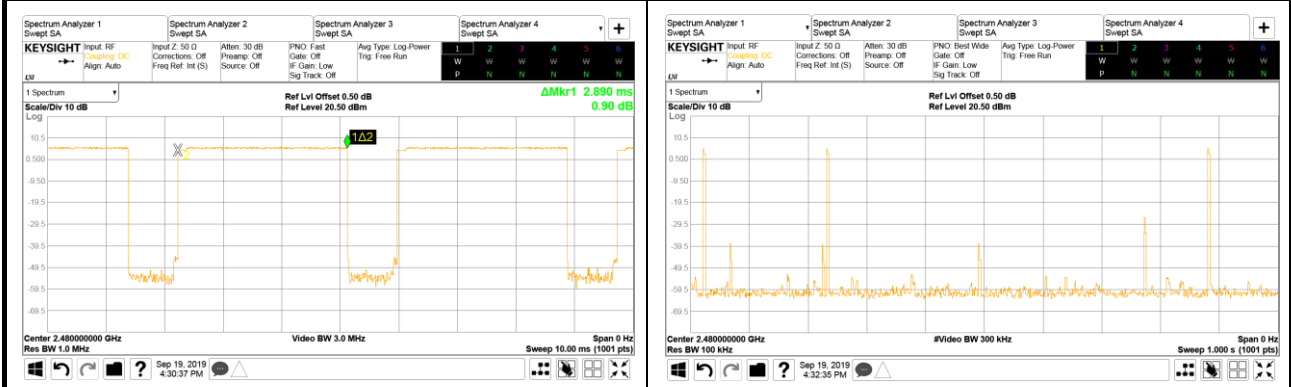
3DH1



3DH3



3DH5



A.6 NUMBER OF HOPPING CHANNELS

Test Date	2019/09/19	Temp./Hum.	25°C/54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Test Model	17Z995

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

A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2019/09/18, 12/25	Temp./Hum.	25°C/51%, 23°C/61%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Test Model	17Z995

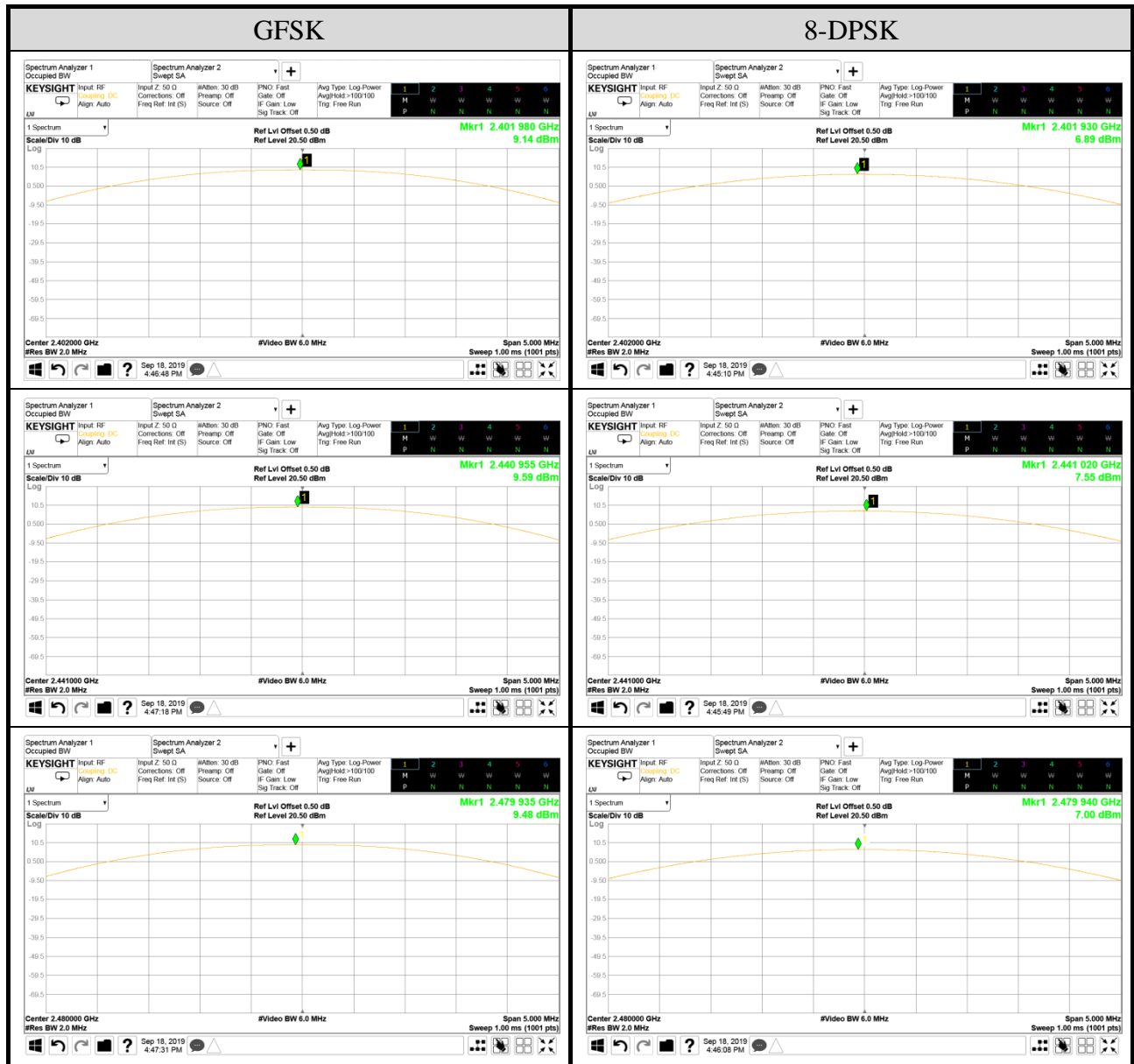
A.7.1 Maximum Peak Output Power

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	9.14	0.008	21dBm (0.125W)
	2441	9.59	0.009	
	2480	9.48	0.009	
8-DPSK	2402	6.89	0.005	
	2441	7.55	0.006	
	2480	7.00	0.005	

SPOT CHECK

Mode	Centre Frequency (MHz)	Maximum Peak Output Power		Limit
		dBm	W	
GFSK	2402	9.26	0.008	21dBm (0.125W)
	2441	9.53	0.009	
	2480	9.71	0.009	
8-DPSK	2402	7.07	0.005	
	2441	7.45	0.006	
	2480	6.82	0.005	

A.7.2 Measurement Plots



A.8 EMISSION LIMITATIONS MEASUREMENT

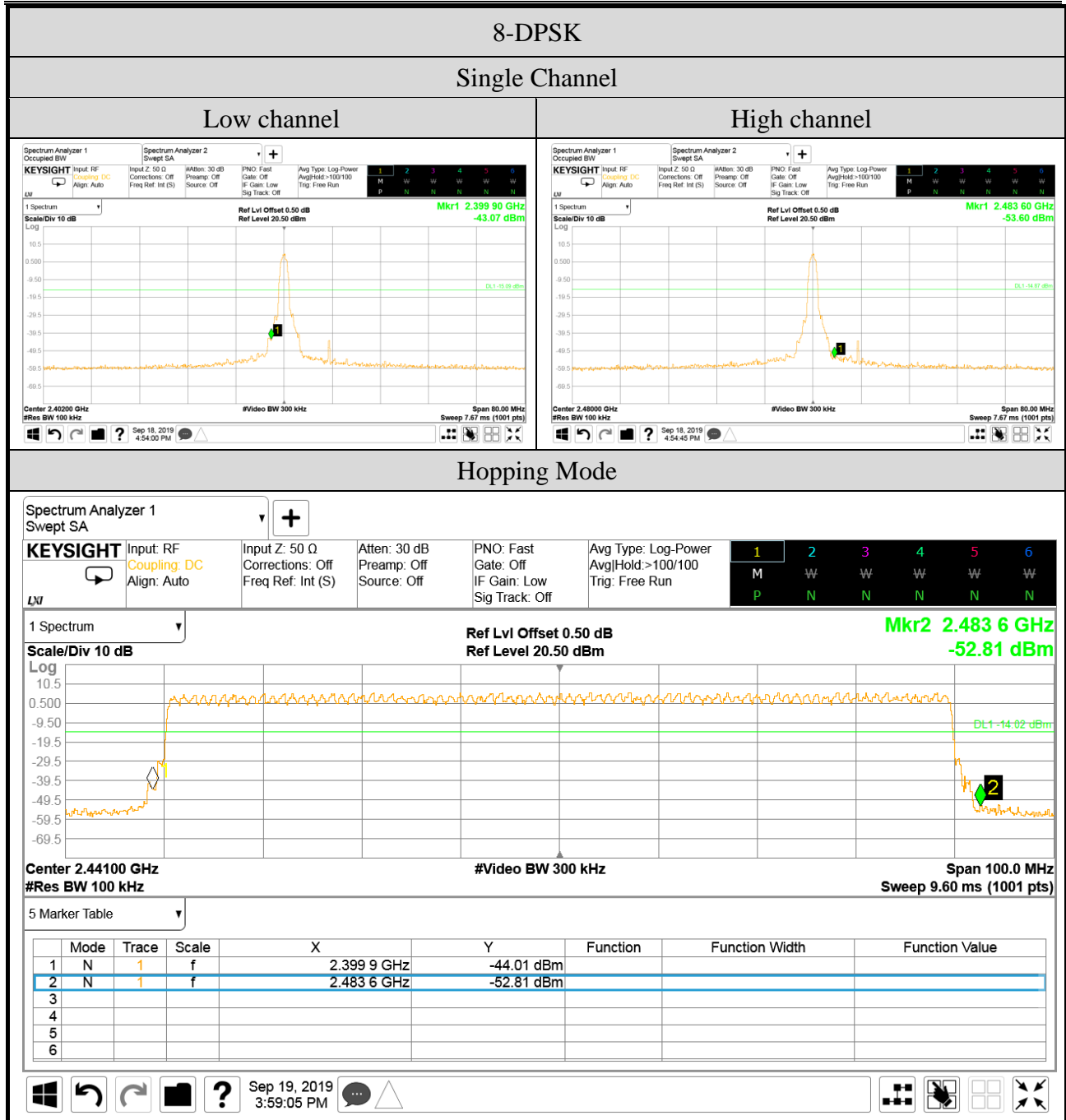
Test Date	2019/09/18 ~ 19	Temp./Hum.	25°C/51 ~ 54%
Cable Loss	0.50dB	Tested By	Martin Chen
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Test Model	17Z995

A.8.1 Band Edge

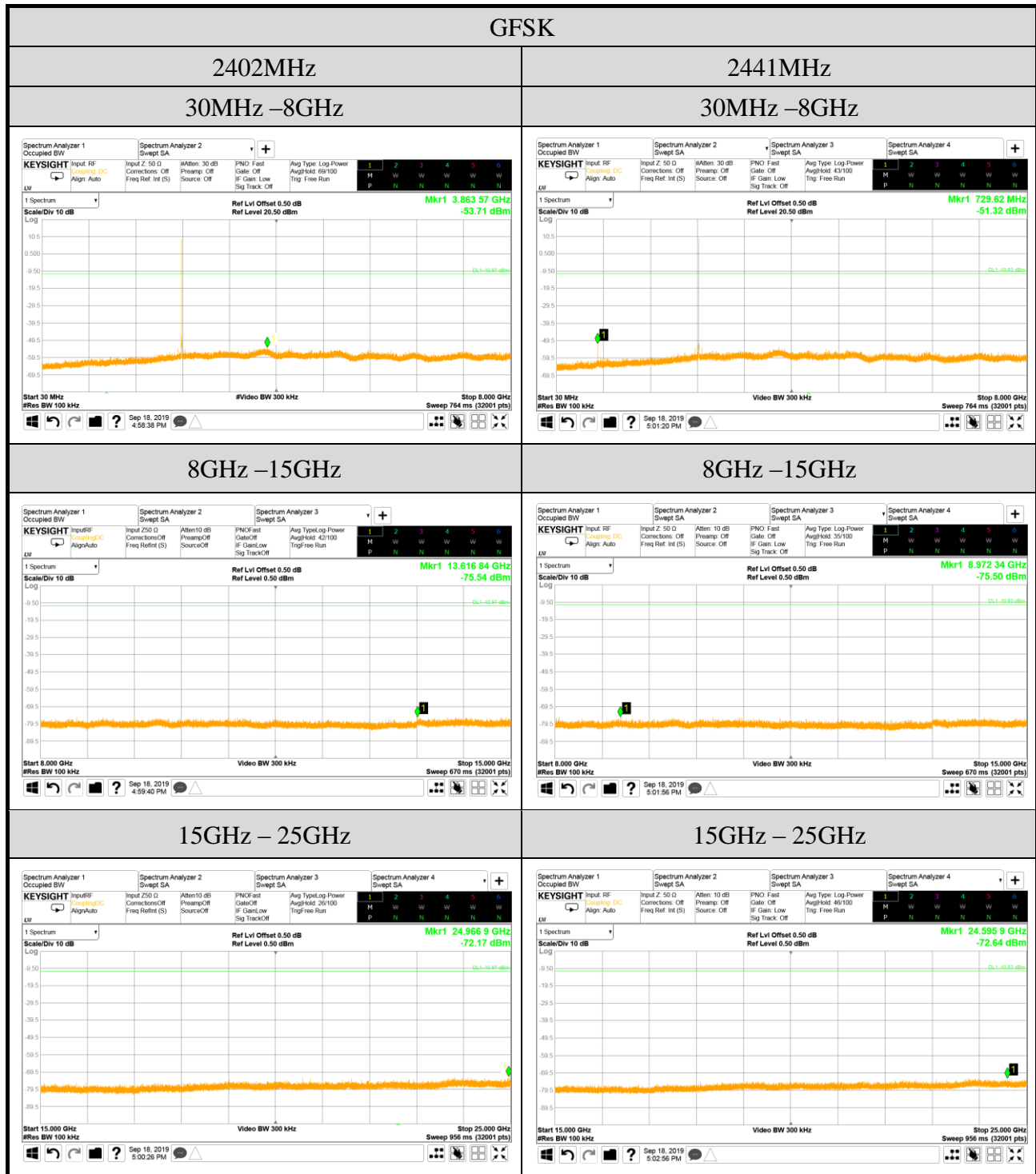


Audix Technology Corp.
 No. 53-11, Dingfu, Linkou, Dist.,
 New Taipei City 244, Taiwan

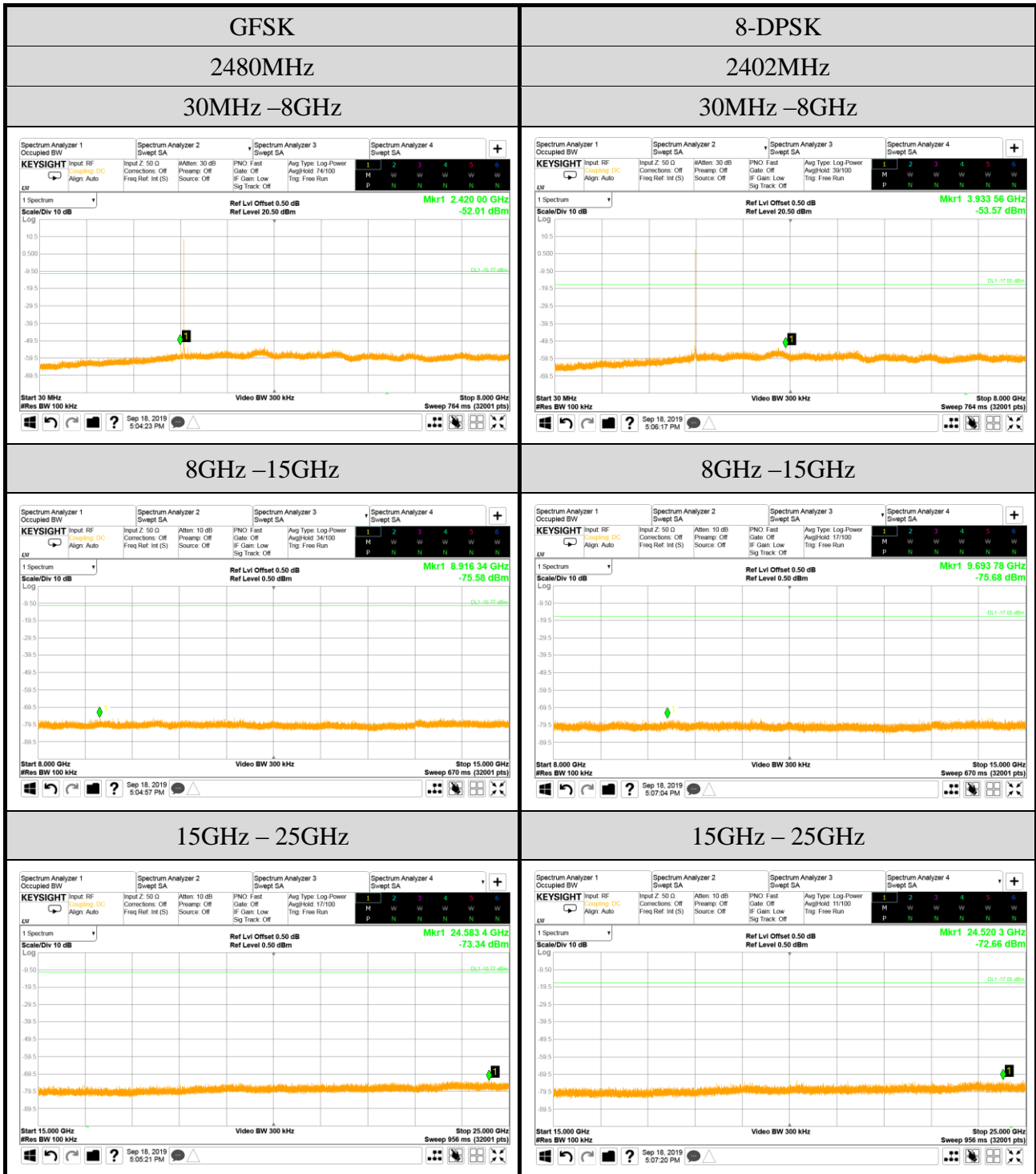
Tel: +886 2 26099301
Fax: +886 2 26099303



A.8.2 Spurious Emission



Note: All results have been included cable loss.



Note: All results have been included cable loss.



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APPDNDIX B

TEST PHOTOGRAPHS

(Model: 17Z995)