Audix Technology Corp.
No. 491, Zhongfu Rd., Linkou Dist.,
New Taipei City244, Taiwan
Tel: +886 2 26099301
Fax: +886 2 26099303

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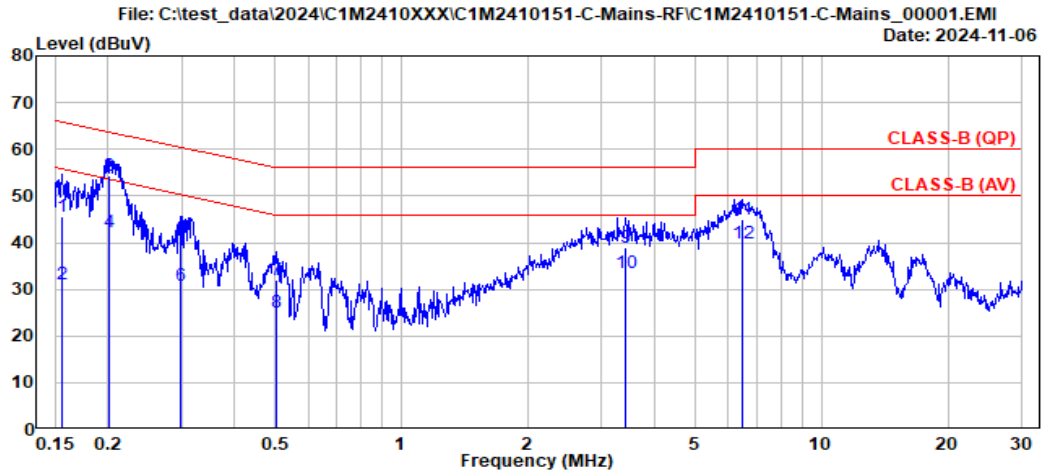
A.1 CONDUCTED EMISSION

Test Date	2024/11/06	Temp./Hum.	25℃/62%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du
Test Mode	Operating (with INPAQ Antenna)		



Site No. : No.8 Shielded Room
Instrument 1 : Receiver ESR(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : CLASS-B (QP)
Environment : 25*C/62%
EUT Model : 16Z90T
Test Mode : Operating
INPAQ

Data No. : 1
Phase : Neutral
Test Rating : 120Vac/60Hz
Engineer : Nick Du

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.156	10.27	0.03	9.85	25.51	45.66	65.67	20.01	QP
2	0.156	10.27	0.03	9.85	10.90	31.05	55.67	24.62	Average
3	0.201	10.26	0.03	9.85	34.21	54.35	63.56	9.21	QP
4	0.201	10.26	0.03	9.85	22.08	42.22	53.56	11.34	Average
5	0.298	10.26	0.03	9.85	20.22	40.36	60.29	19.93	QP
6	0.298	10.26	0.03	9.85	10.79	30.93	50.29	19.36	Average
7	0.504	10.26	0.03	9.85	11.80	31.94	56.00	24.06	QP
8	0.504	10.26	0.03	9.85	4.86	25.00	46.00	21.00	Average
9	3.415	10.33	0.08	9.86	18.57	38.84	56.00	17.16	QP
10	3.415	10.33	0.08	9.86	13.21	33.48	46.00	12.52	Average
11	6.463	10.46	0.11	9.87	24.45	44.89	60.00	15.11	QP
12	6.463	10.46	0.11	9.87	19.53	39.97	50.00	10.03	Average

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

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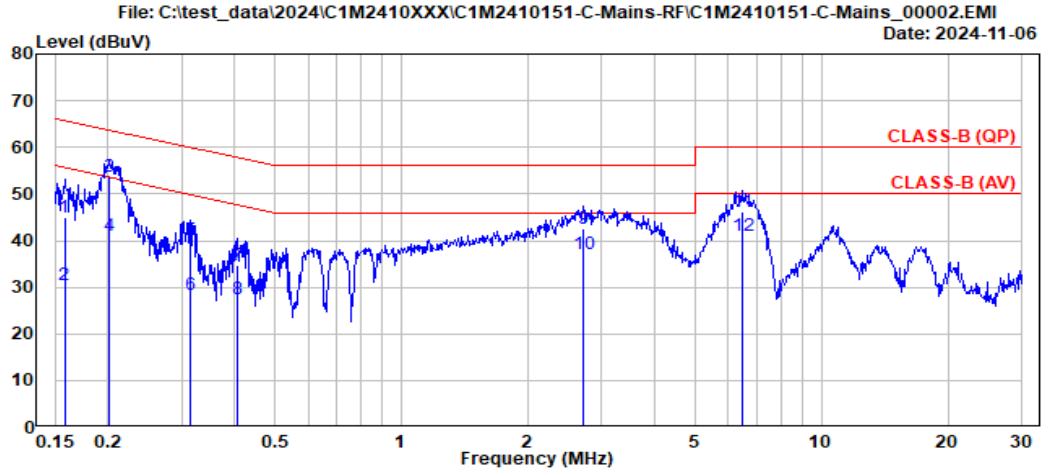
Test Date	2024/11/06	Temp./Hum.	25℃/62%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du
Test Mode	Operating (with INPAQ Antenna)		




```
Site No.        : No.8 Shielded Room                Data No.     : 2
Instrument 1    : Receiver ESR(774)
Instrument 2    : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit           : CLASS-B (QP)                      Phase        : Line
Environment     : 25*C/62%                          Test Rating  : 120Vac/60Hz
EUT Model       : 16Z90T                            Engineer     : Nick Du
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	0.158	10.26	0.03	9.85	24.94	45.08	65.59	20.51	QP
2	0.158	10.26	0.03	9.85	10.30	30.44	55.59	25.15	Average
3	0.202	10.25	0.03	9.85	33.57	53.70	63.52	9.82	QP
4	0.202	10.25	0.03	9.85	21.07	41.20	53.52	12.32	Average
5	0.315	10.25	0.03	9.85	19.91	40.04	59.83	19.79	QP
6	0.315	10.25	0.03	9.85	8.30	28.43	49.83	21.40	Average
7	0.406	10.25	0.03	9.85	14.68	34.81	57.72	22.91	QP
8	0.406	10.25	0.03	9.85	7.21	27.34	47.72	20.38	Average
9	2.715	10.29	0.07	9.86	22.21	42.43	56.00	13.57	QP
10	2.715	10.29	0.07	9.86	16.95	37.17	46.00	8.83	Average
11	6.463	10.38	0.11	9.87	25.78	46.14	60.00	13.86	QP
12	6.463	10.38	0.11	9.87	20.84	41.20	50.00	8.80	Average

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

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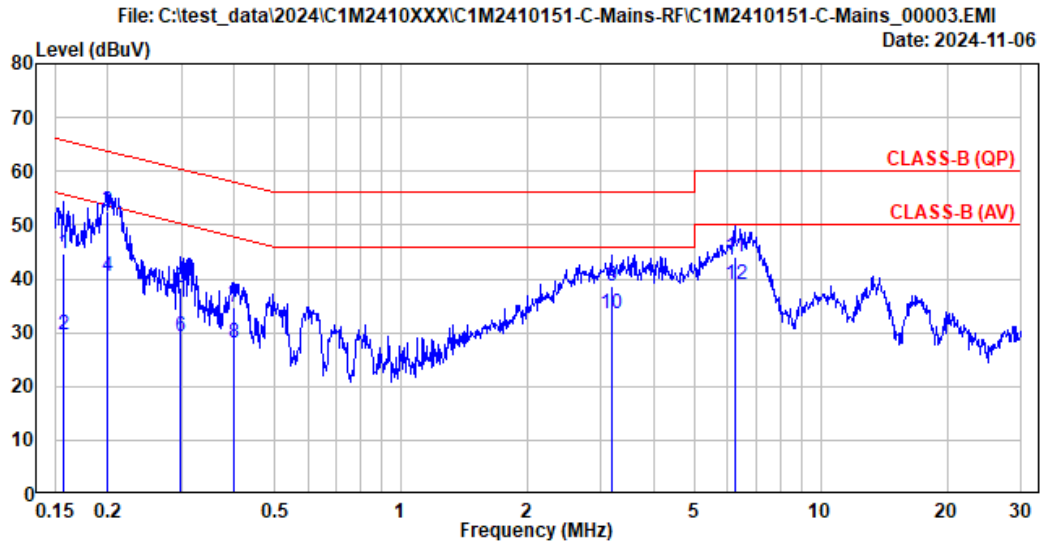
Test Date	2024/11/06	Temp./Hum.	25℃/62%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du
Test Mode	Operating (with LUXSHARE Antenna)		



Site No. : No.8 Shielded Room
Instrument 1 : Receiver ESR(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : CLASS-B (QP)
Environment : 25*C/62%
EUT Model : 16Z90T
Test Mode : Operating
LUXSHARE

Data No. : 3
Phase : Neutral
Test Rating : 120Vac/60Hz
Engineer : Nick Du

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.157	10.27	0.03	9.85	24.60	44.75	65.63	20.88	QP
2	0.157	10.27	0.03	9.85	9.53	29.68	55.63	25.95	Average
3	0.200	10.26	0.03	9.85	32.32	52.46	63.60	11.14	QP
4	0.200	10.26	0.03	9.85	20.29	40.43	53.60	13.17	Average
5	0.297	10.26	0.03	9.85	18.22	38.36	60.33	21.97	QP
6	0.297	10.26	0.03	9.85	9.24	29.38	50.33	20.95	Average
7	0.400	10.26	0.03	9.85	14.53	34.67	57.84	23.17	QP
8	0.400	10.26	0.03	9.85	8.02	28.16	47.84	19.68	Average
9	3.169	10.32	0.07	9.86	18.26	38.51	56.00	17.49	QP
10	3.169	10.32	0.07	9.86	13.22	33.47	46.00	12.53	Average
11	6.241	10.45	0.10	9.87	23.57	43.99	60.00	16.01	QP
12	6.241	10.45	0.10	9.87	18.44	38.86	50.00	11.14	Average

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

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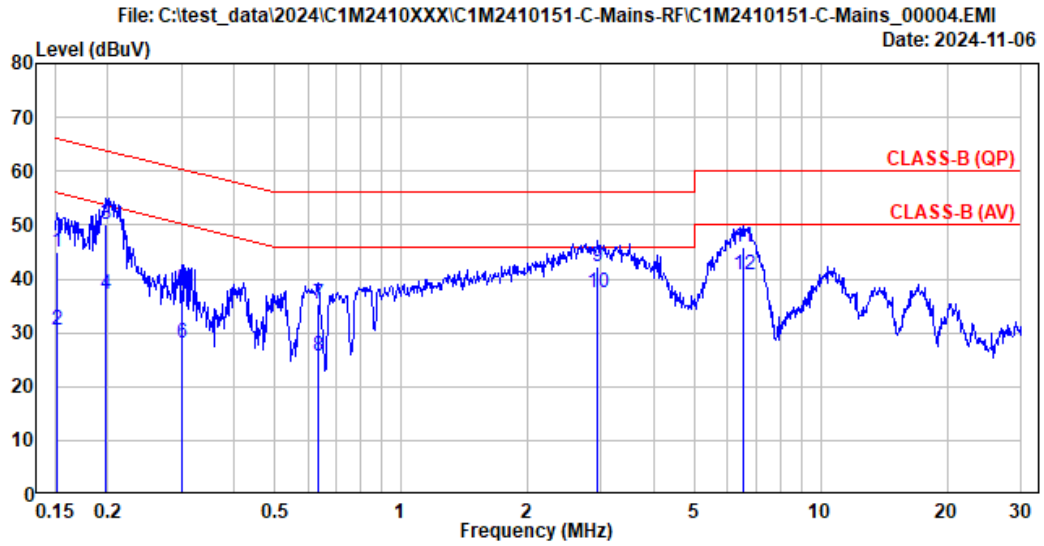
Test Date	2024/11/06	Temp./Hum.	25℃/62%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Nick Du
Test Mode	Operating (with LUXSHARE-ICT Antenna)		



Site No. : No.8 Shielded Room
Instrument 1 : Receiver ESR(774)
Instrument 2 : ENV432 (567)(A)|CE-08|ESH3-Z2 (354)
Limit : CLASS-B (QP)
Environment : 25*C/62%
EUT Model : 16Z90T
Test Mode : Operating
LUXSHARE

Data No. : 4
Phase : Line
Test Rating : 120Vac/60Hz
Engineer : Nick Du

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.152	10.26	0.03	9.85	24.89	45.03	65.92	20.89	QP
2	0.152	10.26	0.03	9.85	10.44	30.58	55.92	25.34	Average
3	0.197	10.25	0.03	9.85	30.07	50.20	63.72	13.52	QP
4	0.197	10.25	0.03	9.85	16.99	37.12	53.72	16.60	Average
5	0.301	10.25	0.03	9.85	17.78	37.91	60.20	22.29	QP
6	0.301	10.25	0.03	9.85	8.08	28.21	50.20	21.99	Average
7	0.633	10.26	0.04	9.85	15.20	35.35	56.00	20.65	QP
8	0.633	10.26	0.04	9.85	5.45	25.60	46.00	20.40	Average
9	2.940	10.29	0.07	9.86	21.99	42.21	56.00	13.79	QP
10	2.940	10.29	0.07	9.86	17.19	37.41	46.00	8.59	Average
11	6.527	10.38	0.11	9.87	25.45	45.81	60.00	14.19	QP
12	6.527	10.38	0.11	9.87	20.51	40.87	50.00	9.13	Average

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

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A.2 RADIATED EMISSION

Test Date	2024/10/23 ~ 11/15	Temp./Hum.	23~24℃/51~ 55%
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	(1) Harry Huang (2) Hua Wu

A.2.1 Emissions within Restricted Frequency Bands

A.2.1.1 Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

A.2.1.2 Frequency Below 1GHz

- **With INPAQ Antenna**

Mode	BT (8DPSK)	Frequency	TX 2480MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
34.500	22.05	1.43	26.50	32.91	29.89	40.00	10.11	Peak
155.500	15.91	3.12	26.01	38.01	31.03	43.50	12.47	Peak
267.000	18.13	4.20	25.70	37.27	33.89	46.00	12.11	Peak
342.000	19.74	5.09	26.05	37.09	35.87	46.00	10.13	Peak
702.000	24.53	7.32	27.49	32.08	36.44	46.00	9.56	Peak
766.500	24.87	7.64	27.38	31.92	37.05	46.00	8.95	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.000	21.86	1.44	26.50	38.01	34.81	40.00	5.19	Peak
85.500	13.83	2.33	26.36	47.23	37.03	40.00	2.97	Peak
155.500	15.91	3.12	26.01	43.95	36.97	43.50	6.53	Peak
345.500	19.84	5.13	26.08	36.00	34.90	46.00	11.10	Peak
445.500	21.93	6.20	26.86	31.82	33.08	46.00	12.92	Peak
762.000	24.85	7.62	27.39	30.43	35.51	46.00	10.49	Peak

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- **With LUXSHARE-ICT Antenna**

Mode	BT (8DPSK)	Frequency	TX 2480MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
33.000	22.69	1.48	26.48	32.88	30.57	40.00	9.43	Peak
125.500	17.68	2.92	26.13	36.68	31.16	43.50	12.34	Peak
148.500	16.41	3.18	26.00	38.34	31.92	43.50	11.58	Peak
314.500	19.02	4.89	25.75	32.87	31.04	46.00	14.96	Peak
380.500	20.66	5.71	26.30	34.14	34.22	46.00	11.78	Peak
594.500	24.01	7.08	27.39	32.00	35.70	46.00	10.30	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
35.000	21.86	1.53	26.48	39.98	36.89	40.00	3.11	Peak
131.500	17.41	2.99	26.09	32.91	27.22	43.50	16.28	Peak
153.000	16.06	3.23	25.98	34.48	27.78	43.50	15.72	Peak
397.000	21.04	5.90	26.42	32.98	33.50	46.00	12.50	Peak
430.500	21.66	6.20	26.67	34.82	36.02	46.00	9.98	Peak
566.000	23.66	6.99	27.31	32.11	35.45	46.00	10.55	Peak

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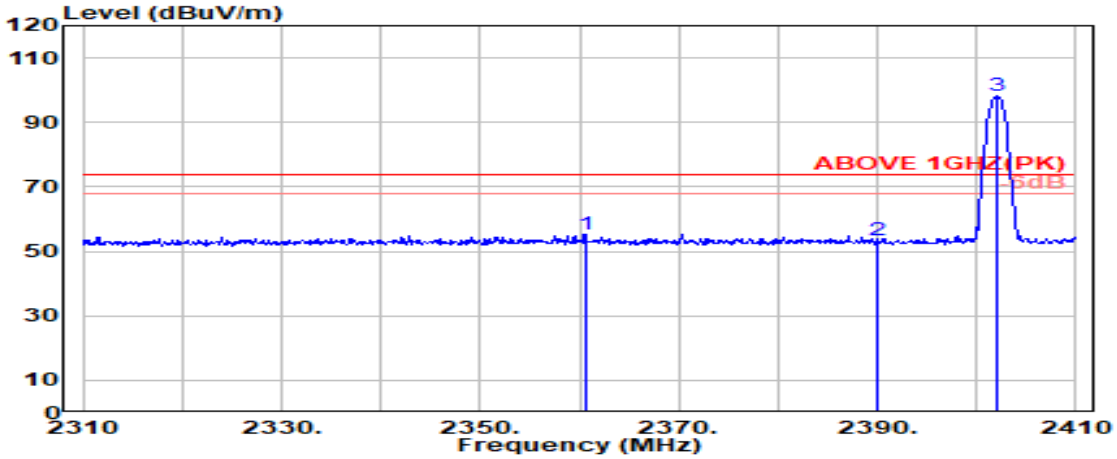
A.2.1.3 Frequency Above 1 GHz to 10th harmonics

- **With INPAQ Antenna**

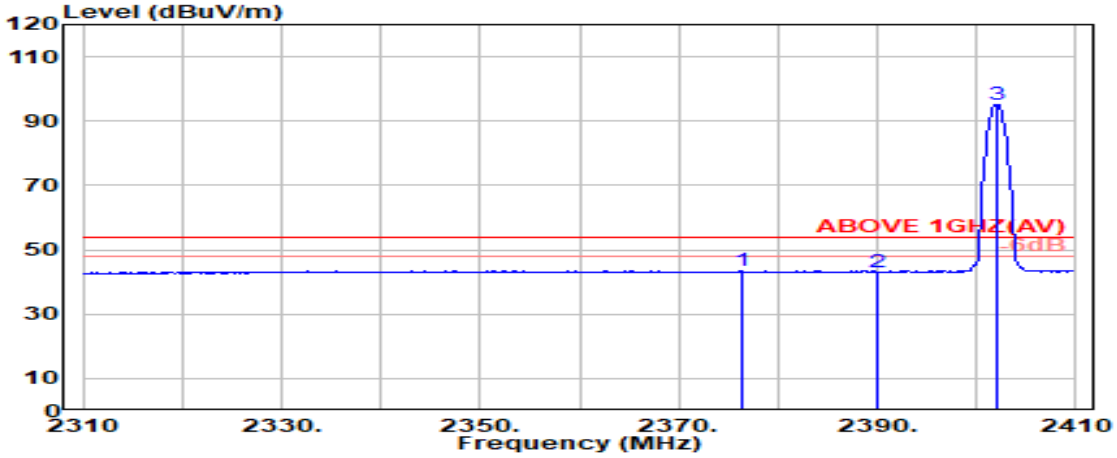
Band Edge:

Mode	8-DPSK	Frequency	TX 2402MHz



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
	2360.600	28.26	5.69	39.88	61.26	55.32	74.00	18.68	Peak
	2390.000	28.14	5.72	39.88	59.59	53.57	74.00	20.43	Peak
@	2402.000	28.11	5.74	39.88	104.17	98.14	---	---	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
	2376.300	28.19	5.70	39.88	49.52	43.54	54.00	10.46	Average
	2390.000	28.14	5.72	39.88	49.20	43.18	54.00	10.82	Average
@	2402.000	28.11	5.74	39.88	101.31	95.28	---	---	Average

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

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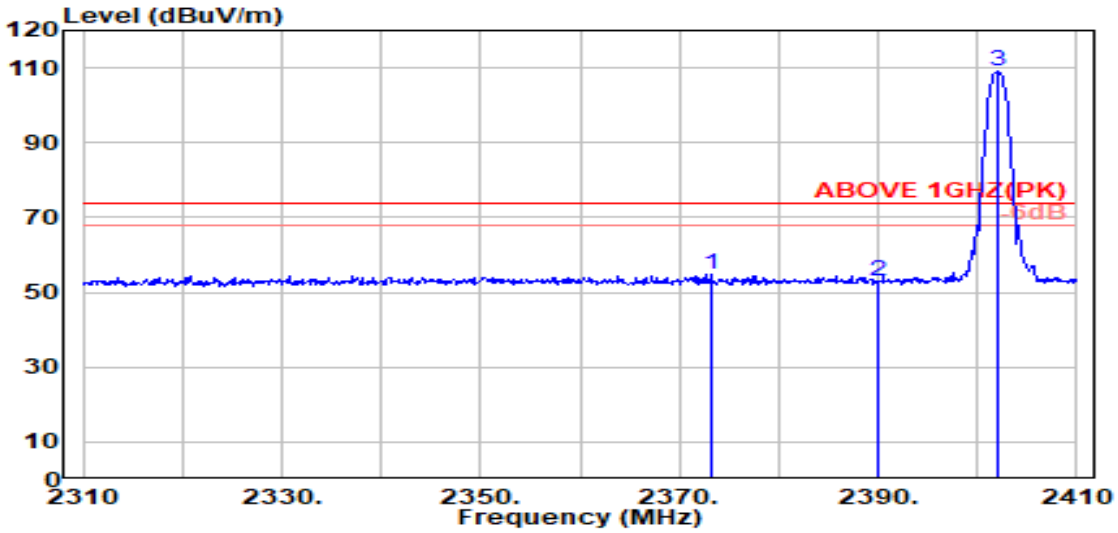
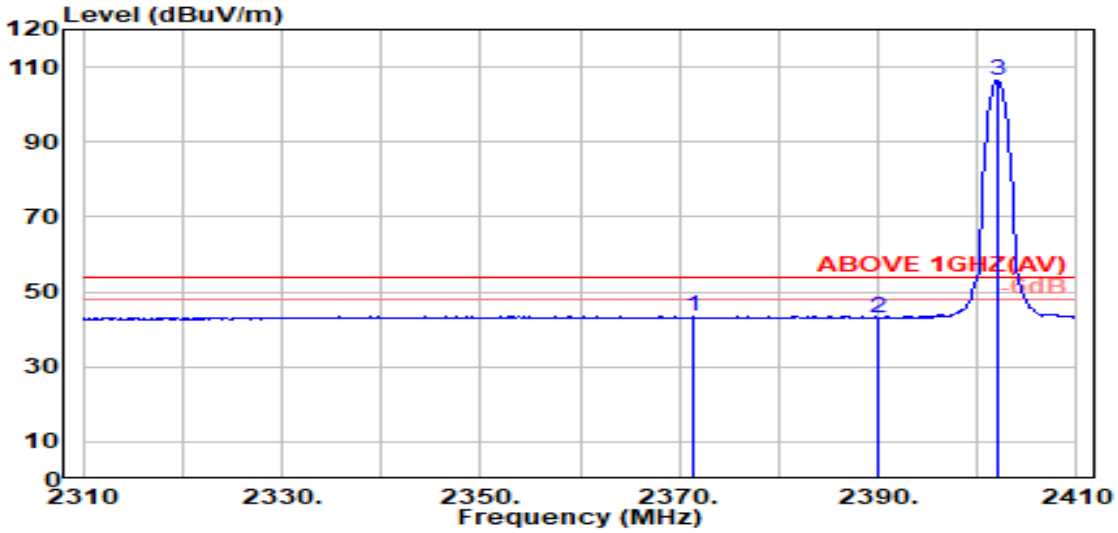
Mode	8-DPSK	Frequency	TX 2402MHz



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
	2373.200	28.21	5.70	39.88	60.73	54.76	74.00	19.24	Peak
	2390.000	28.14	5.72	39.88	58.99	52.98	74.00	21.02	Peak
@	2402.000	28.11	5.74	39.88	115.02	108.98	---	---	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
	2371.300	28.21	5.70	39.88	49.48	43.51	54.00	10.49	Average
	2390.000	28.14	5.72	39.88	49.19	43.18	54.00	10.82	Average
@	2402.000	28.11	5.74	39.88	112.33	106.29	---	---	Average

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

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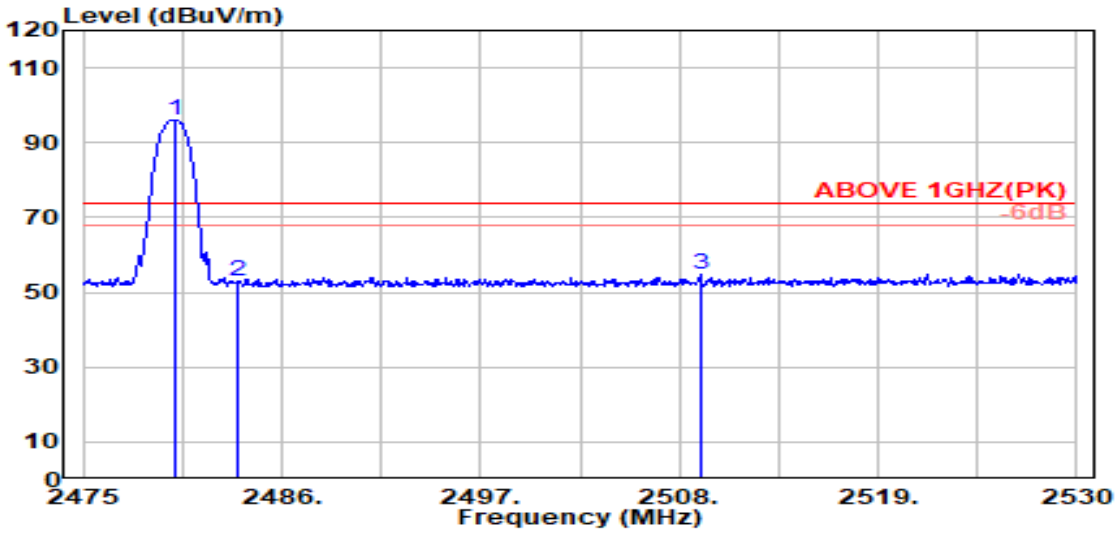
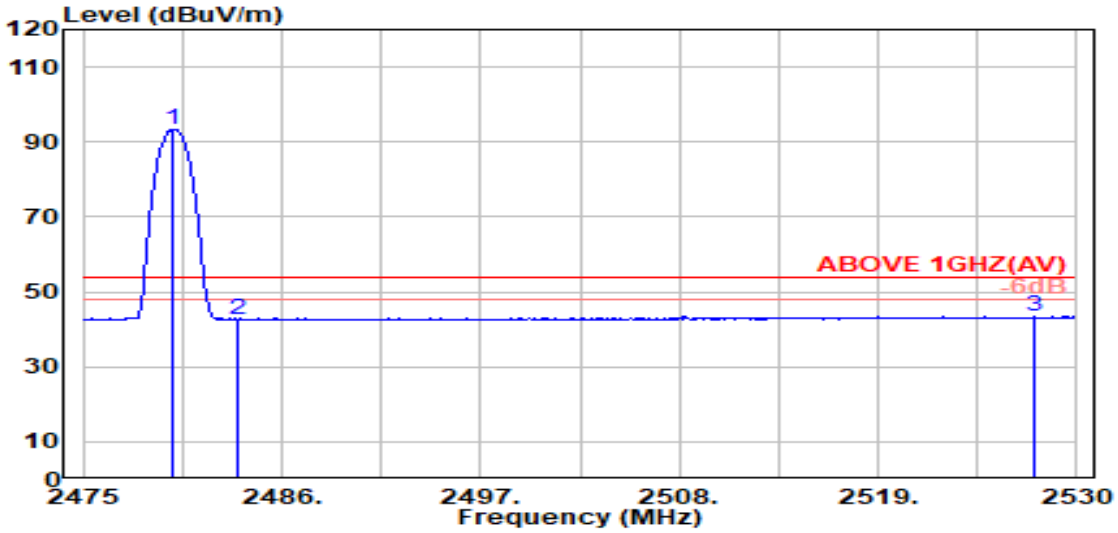
Mode	8-DPSK	Frequency	TX 2480MHz



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	101.90	96.21	---	---	Peak
2483.500	28.37	5.83	39.87	58.58	52.91	74.00	21.09	Peak
2509.200	28.46	5.86	39.87	60.53	54.97	74.00	19.03	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	99.11	93.42	---	---	Average
2483.500	28.37	5.83	39.87	48.41	42.74	54.00	11.26	Average
2527.650	28.57	5.88	39.88	48.89	43.46	54.00	10.54	Average

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

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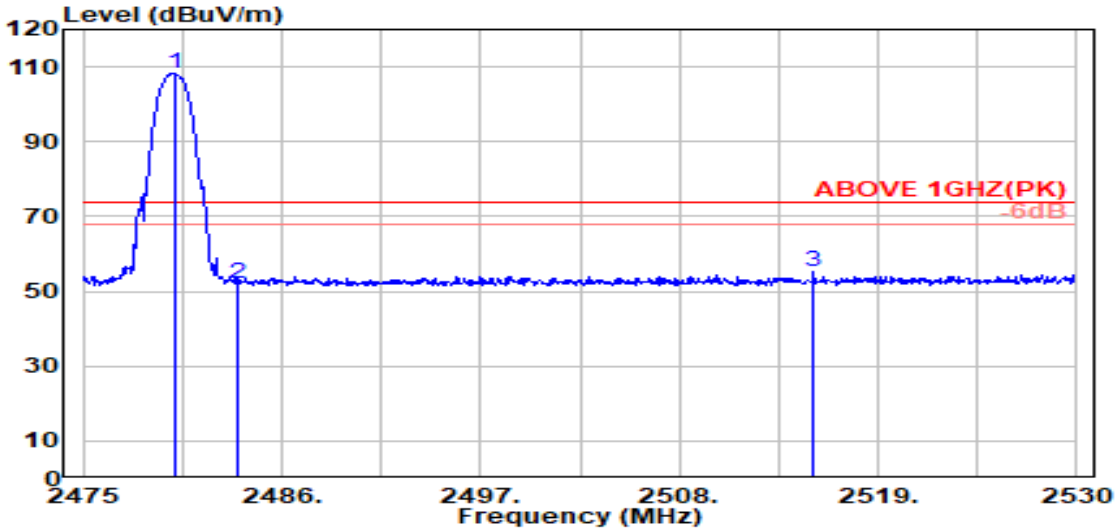
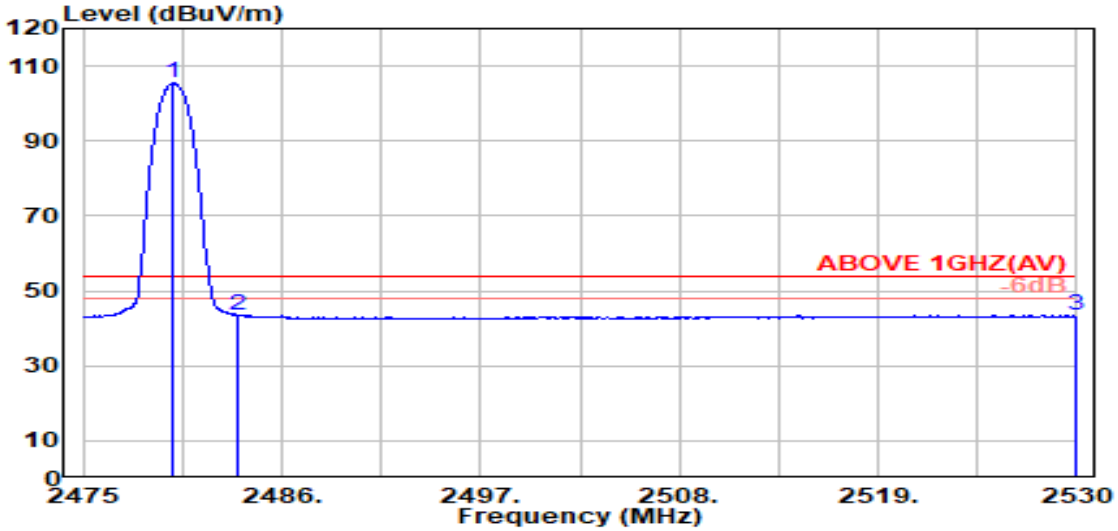
Fax: +886 2 26099303

Mode	8-DPSK	Frequency	TX 2480MHz



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	113.84	108.16	---	---	Peak
2483.500	28.37	5.83	39.87	57.85	52.17	74.00	21.83	Peak
2515.400	28.49	5.87	39.88	60.98	55.47	74.00	18.53	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	111.03	105.34	---	---	Average
2483.500	28.37	5.83	39.87	49.31	43.64	54.00	10.36	Average
2529.900	28.58	5.89	39.88	48.80	43.38	54.00	10.62	Average

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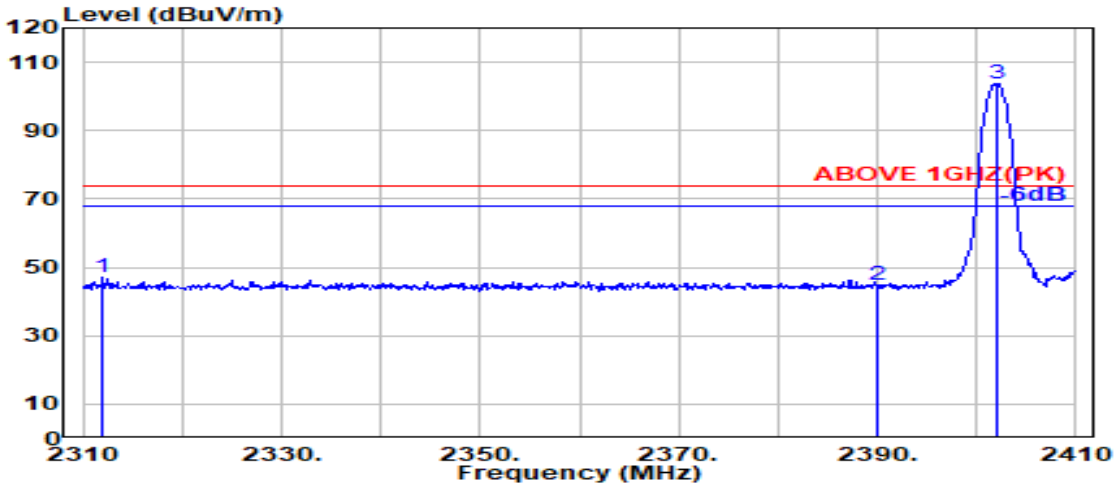
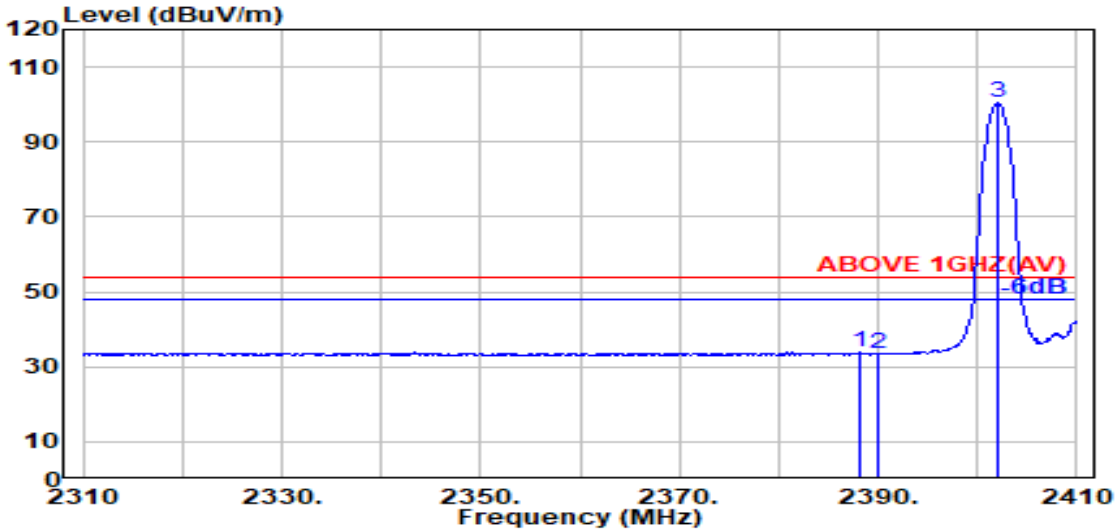
- **With LUXSHARE-ICT Antenna**

Mode	8-DPSK	Frequency	TX 2402MHz



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
	2311.900	28.20	5.92	34.48	47.25	46.89	74.00	27.11	Peak
	2390.000	28.18	6.03	34.50	44.92	44.64	74.00	29.36	Peak
@	2402.000	28.11	6.05	34.50	104.09	103.75	---	---	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
	2388.100	28.19	6.03	34.50	34.24	33.97	54.00	20.03	Average
	2390.000	28.18	6.03	34.50	33.72	33.43	54.00	20.57	Average
@	2402.000	28.11	6.05	34.50	100.78	100.44	---	---	Average

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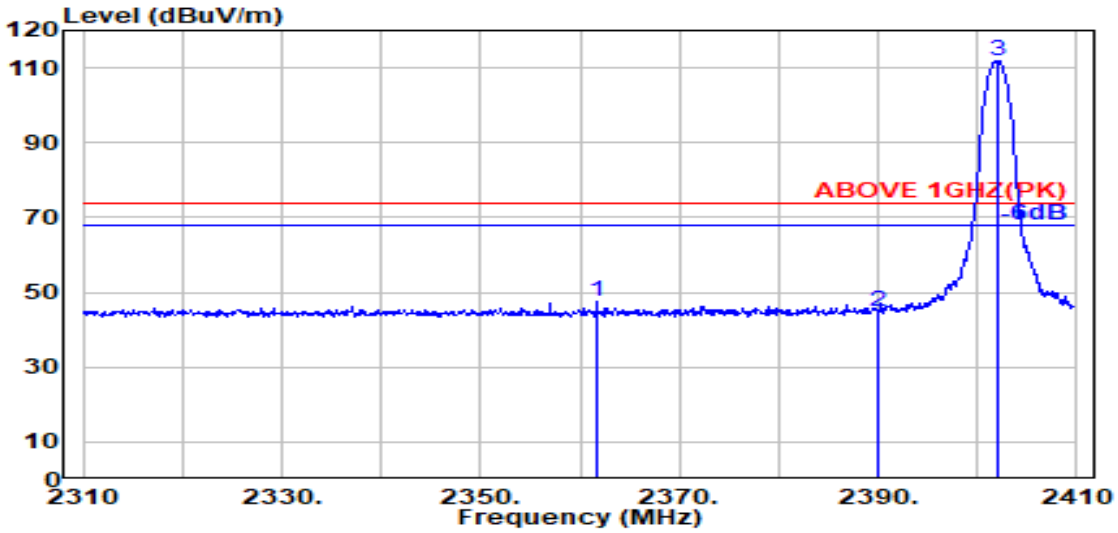
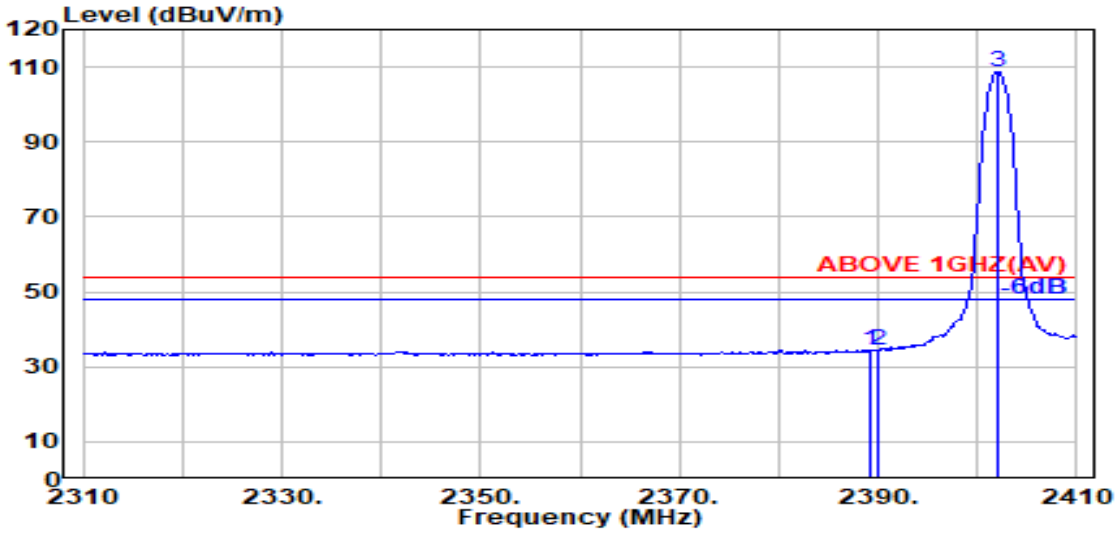
Fax: +886 2 26099303

Mode	8-DPSK	Frequency	TX 2402MHz



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
	2361.700	28.41	5.99	34.49	47.57	47.47	74.00	26.53	Peak
	2390.000	28.18	6.03	34.50	45.31	45.02	74.00	28.98	Peak
@	2402.000	28.11	6.05	34.50	112.35	112.01	---	---	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
	2389.200	28.19	6.03	34.50	34.84	34.56	54.00	19.44	Average
	2390.000	28.18	6.03	34.50	34.77	34.49	54.00	19.51	Average
@	2402.100	28.11	6.05	34.50	109.23	108.90	---	---	Average

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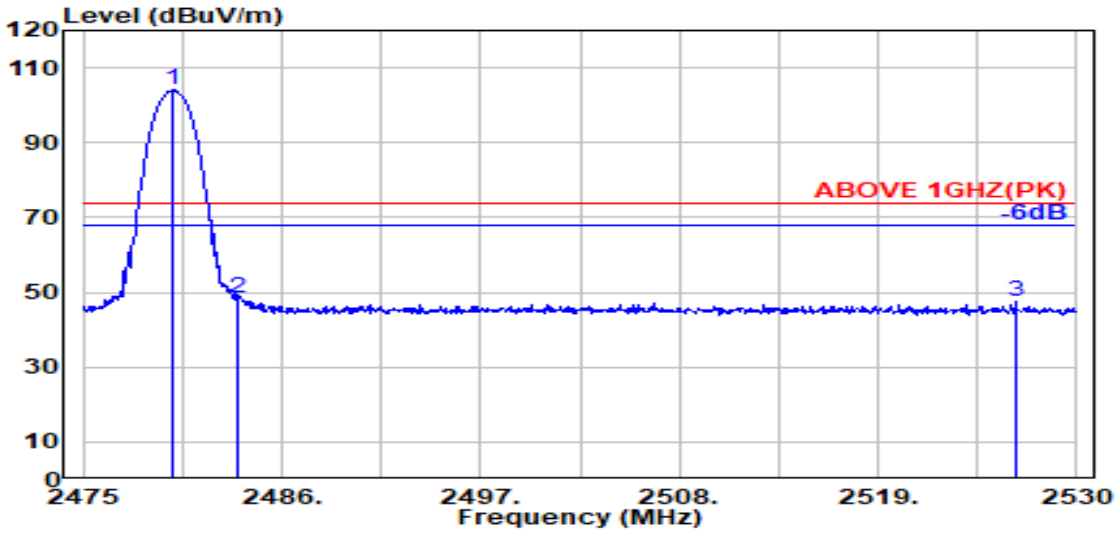
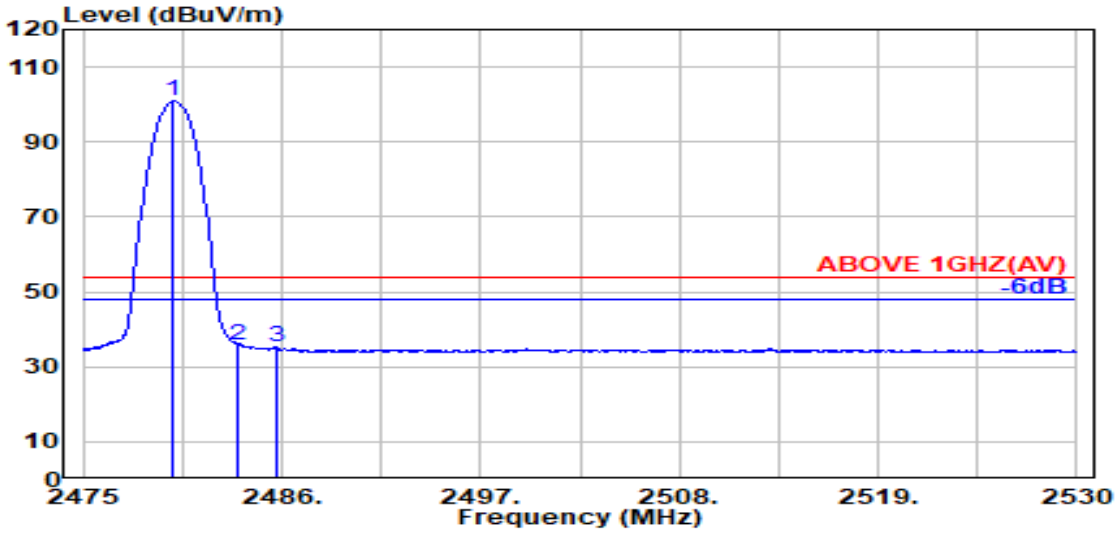
Mode	8-DPSK	Frequency	TX 2480MHz



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	104.03	104.14	---	---	Peak
2483.500	28.47	6.17	34.52	48.43	48.55	74.00	25.45	Peak
2526.650	28.66	6.22	34.53	47.35	47.70	74.00	26.30	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
@ 2479.950	28.46	6.16	34.52	100.79	100.89	---	---	Average
2483.500	28.47	6.17	34.52	35.85	35.96	54.00	18.04	Average
2485.650	28.47	6.17	34.52	34.99	35.12	54.00	18.88	Average

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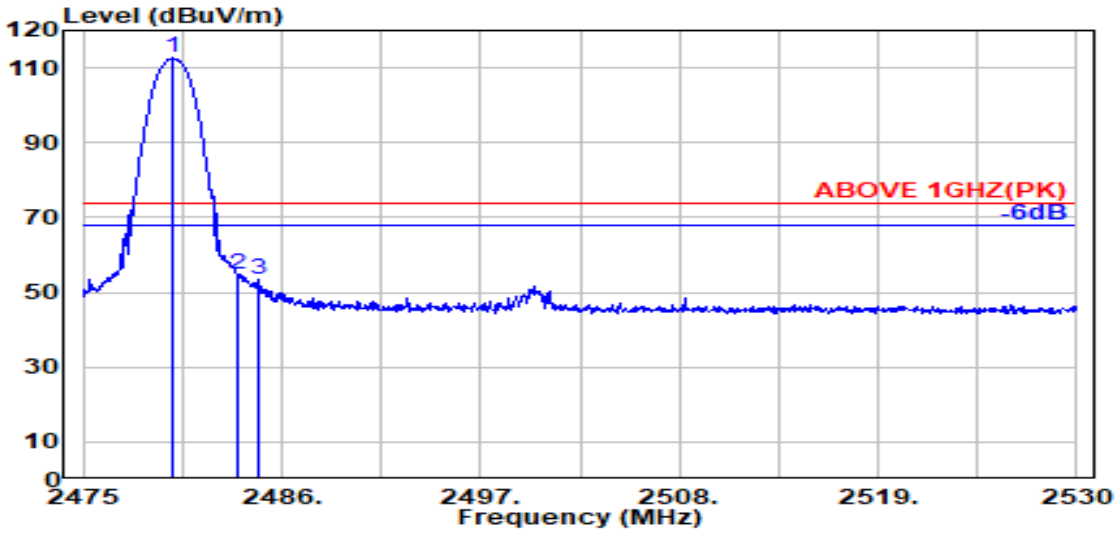
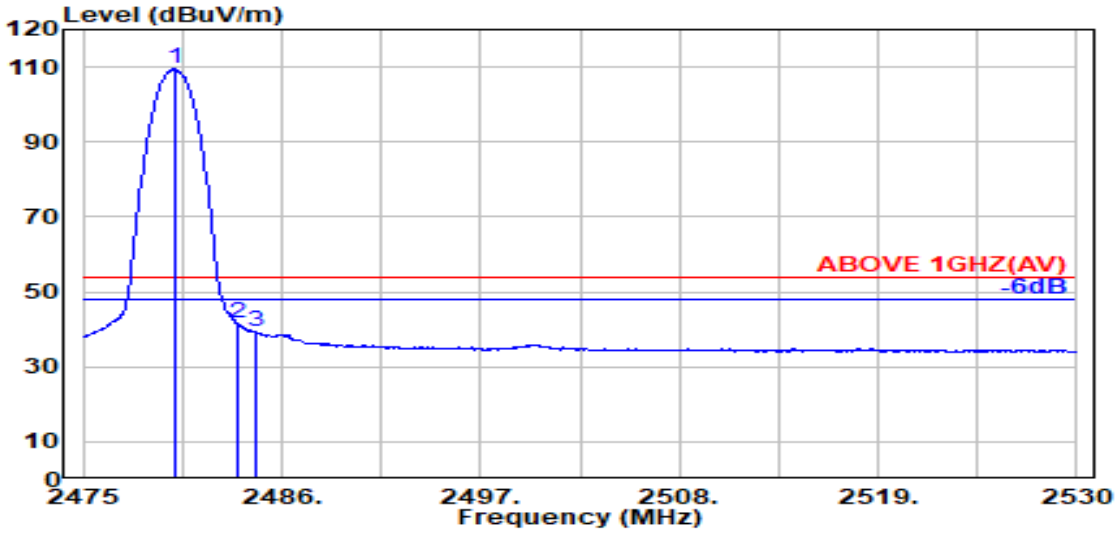
Mode	8-DPSK	Frequency	TX 2480MHz



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	28.46	6.16	34.52	112.57	112.68	---	---	Peak
2483.500	28.47	6.17	34.52	54.88	55.00	74.00	19.00	Peak
2484.750	28.47	6.17	34.52	53.54	53.66	74.00	20.34	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	109.26	109.36	---	---	Average
2483.500	28.47	6.17	34.52	41.62	41.73	54.00	12.27	Average
2484.500	28.47	6.17	34.52	39.05	39.17	54.00	14.83	Average

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

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A.2.2 Emissions outside the frequency band:

- **With INPAQ Antenna**

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

Mode	BT (8-DPSK)	Frequency	TX 2402MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.13	39.30	38.77	40.51	54.00	13.49	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	32.92	8.13	39.30	40.33	42.07	54.00	11.93	Peak

Mode	BT (8-DPSK)	Frequency	TX 2441MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.16	8.16	39.26	40.71	42.77	54.00	11.23	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.16	8.16	39.26	41.30	43.37	54.00	10.63	Peak

Mode	BT (8-DPSK)	Frequency	TX 2480MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.20	39.23	43.09	45.30	54.00	8.70	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.24	8.20	39.23	41.22	43.43	54.00	10.57	Peak

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Fax: +886 2 26099303

- **With LUXSHARE-ICT Antenna**

Mode	BT (8-DPSK)	Frequency	TX 2402MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.01	8.32	34.38	35.35	42.31	54.00	11.69	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4804.000	33.01	8.32	34.38	35.60	42.56	54.00	11.44	Peak

Mode	BT (8-DPSK)	Frequency	TX 2441MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.23	8.38	34.36	35.67	42.92	54.00	11.08	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4882.000	33.23	8.38	34.36	35.03	42.27	54.00	11.73	Peak

Mode	BT (8-DPSK)	Frequency	TX 2480MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.42	34.34	34.67	42.15	54.00	11.85	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Reading level (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
4960.000	33.40	8.42	34.34	35.83	43.32	54.00	10.68	Peak

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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.

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Fax: +886 2 26099303

A.3 20dB BANDWIDTH

Test Date	2024/10/23	Temp./Hum.	24℃/57%
Cable Loss	0.50 dB	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	0.92	0.82	0.613
	2441	0.92	0.83	0.613
	2480	0.91	0.83	0.607
8-DPSK	2402	1.34	1.23	0.893
	2441	1.34	1.23	0.893
	2480	1.34	1.23	0.893

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

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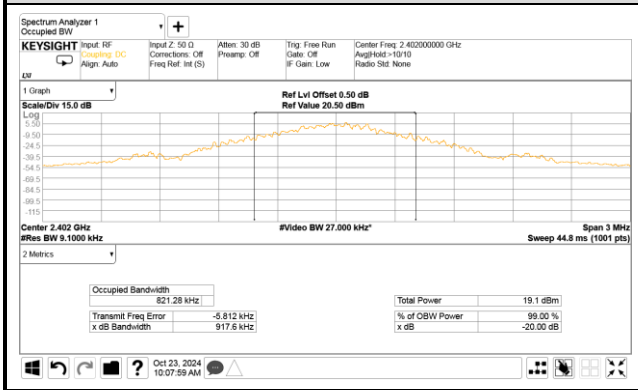
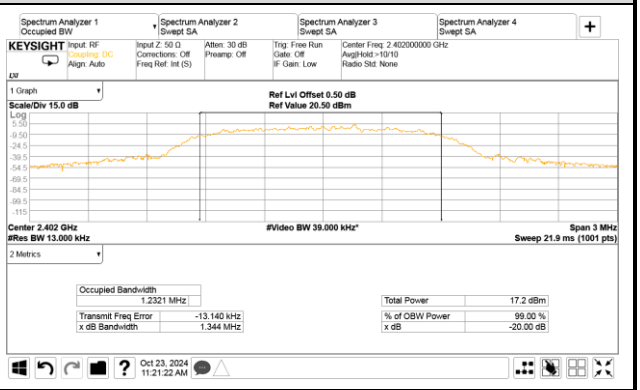
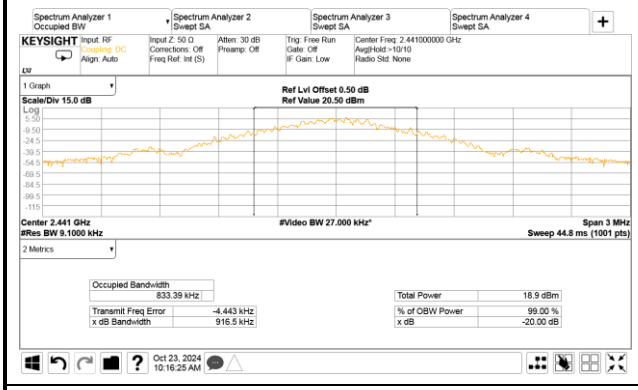
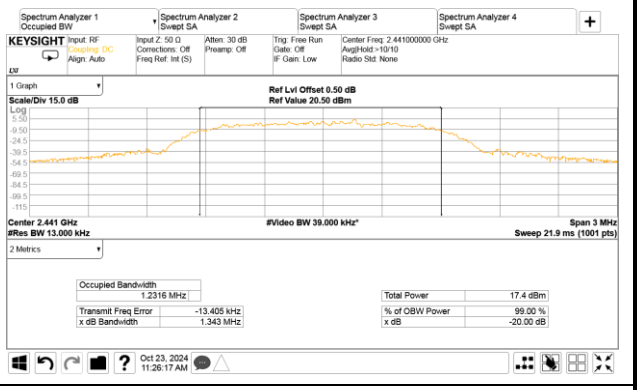
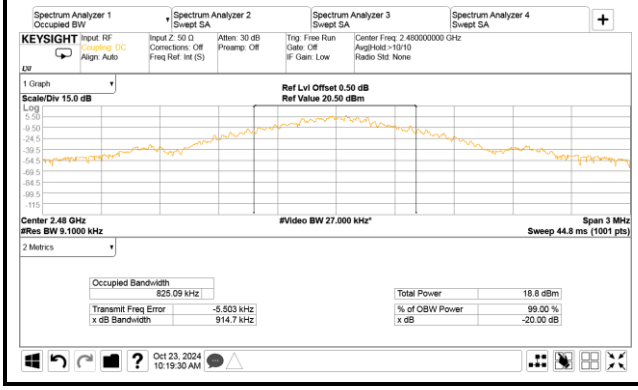
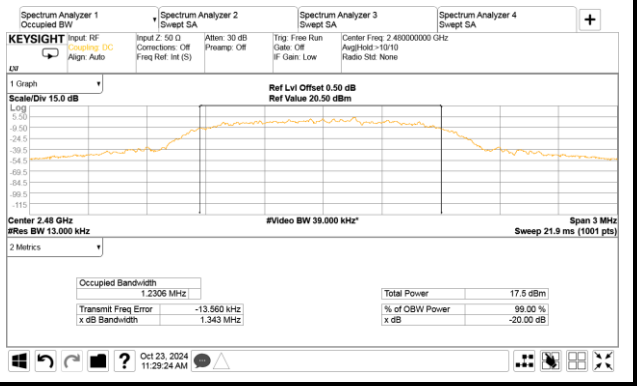
A.3.2 Measurement Plots

GFSK	8-DPSK
	
	
	

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Fax: +886 2 26099303

A.4 CARRIER FREQUENCY SEPARATION

Test Date	2024/10/23	Temp./Hum.	24℃/57%
Cable Loss	0.50 dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

<table>
<tr><th colspan="2">GFSK</th></tr>
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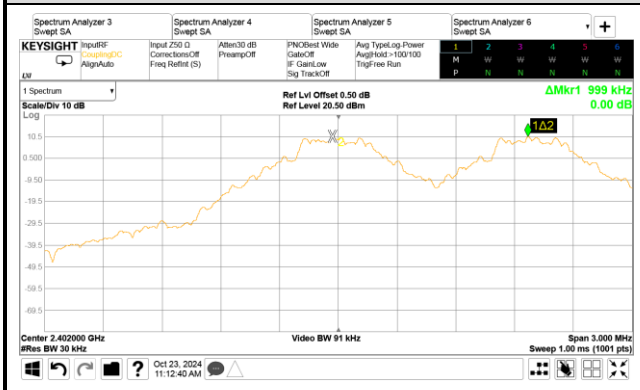
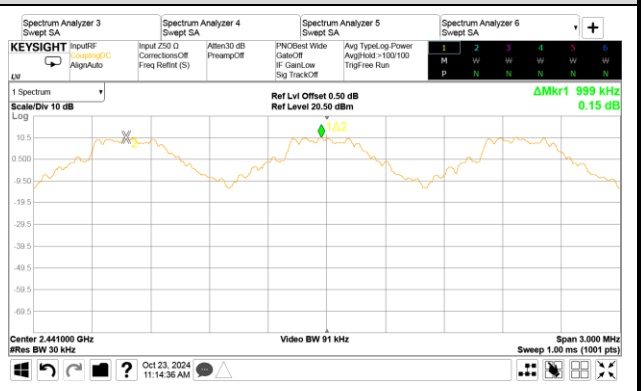
<tr><td>adjacent channel of left carrier frequency</td></tr>
<tr><td> 
</td><td> 
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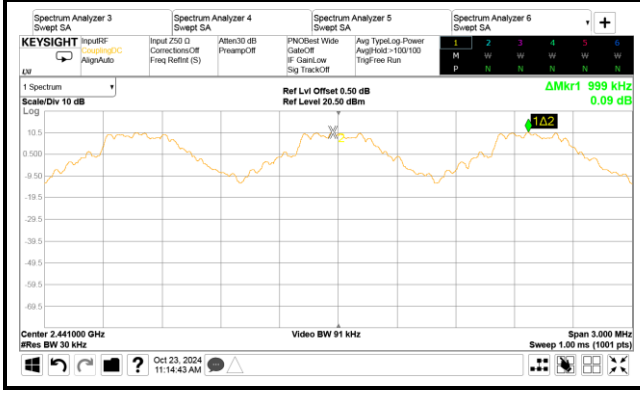
<tr><td>2441MHz
adjacent channel of right carrier frequency</td><td rowspan="2">2480MHz</td></tr>
<tr><td> 
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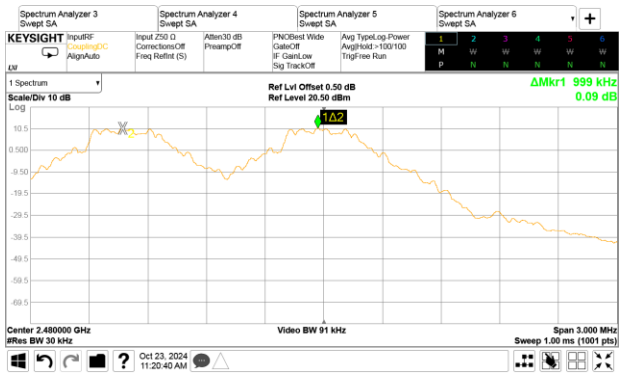
<tr><td></td><td> 
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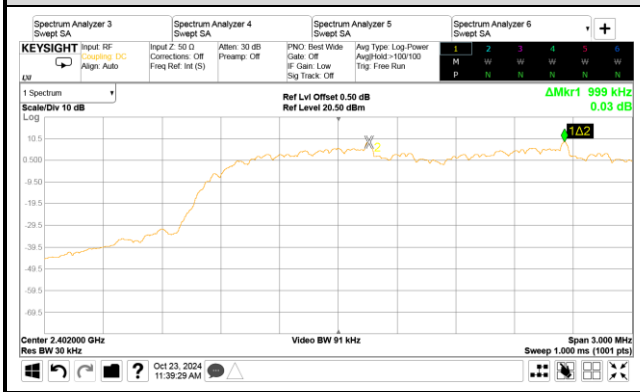
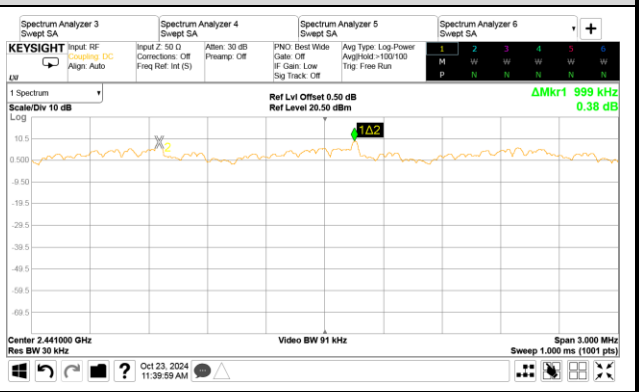
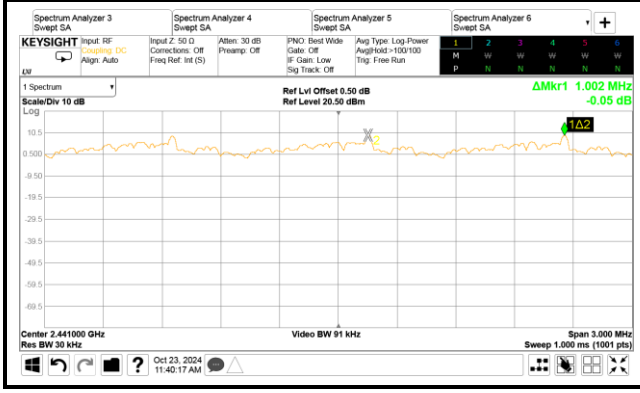
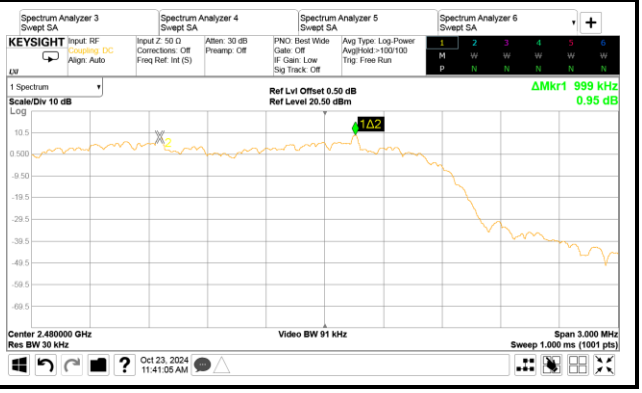
8-DPSK	
2402MHz	2441MHz adjacent channel of left carrier frequency
	
2441MHz adjacent channel of right carrier frequency	2480MHz
	

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A.5 TIME OF OCCUPANCY

Test Date	2024/10/23	Temp./Hum.	24℃/57%
Cable Loss	0.50 dB	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	0.370	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)

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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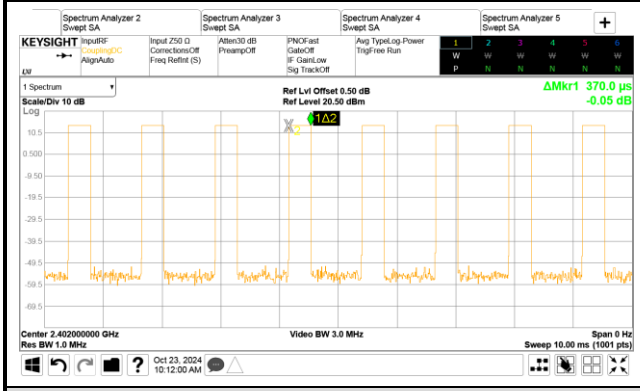
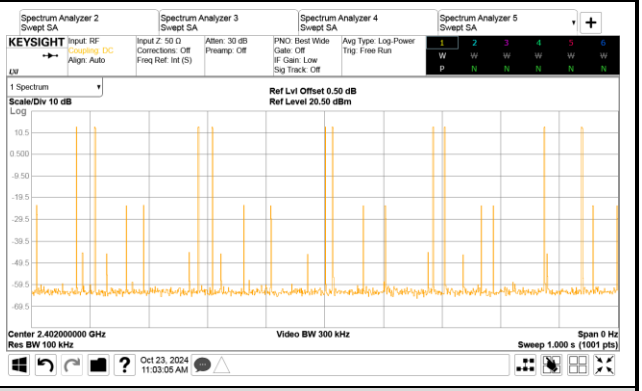
- Measurement Plots

GFSK	
2402MHz	
DH1	
	
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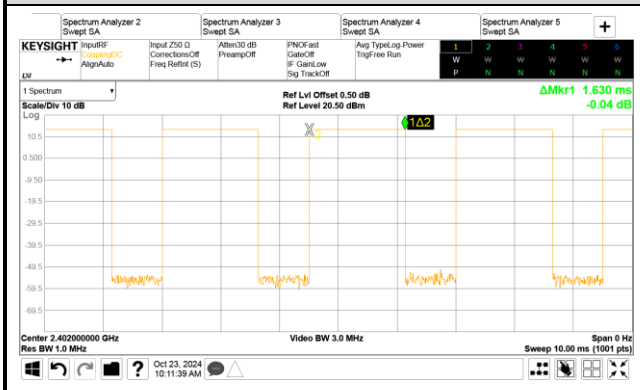
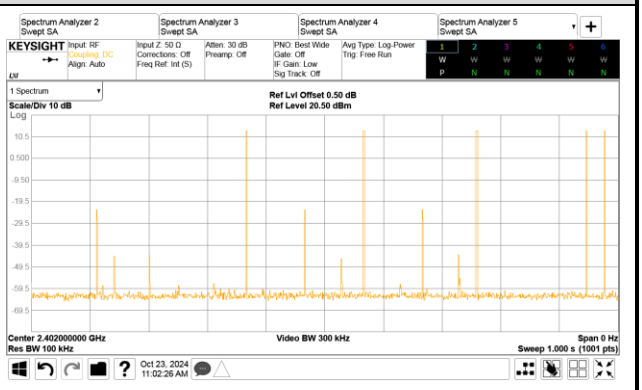
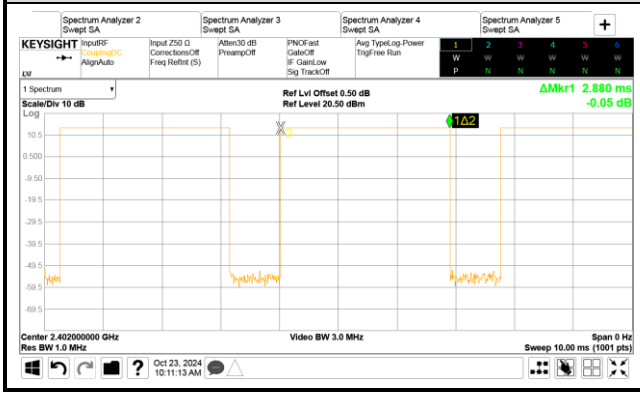
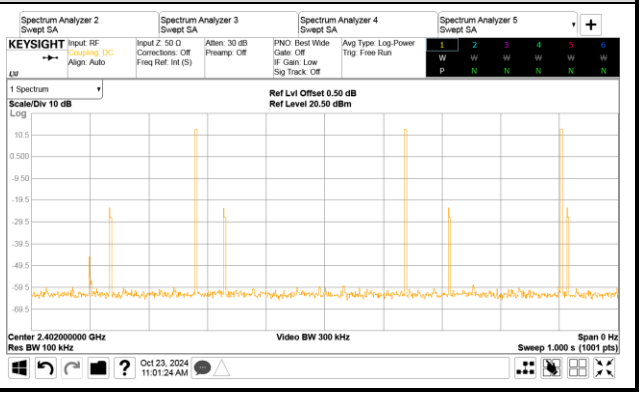
	
DH5	
	

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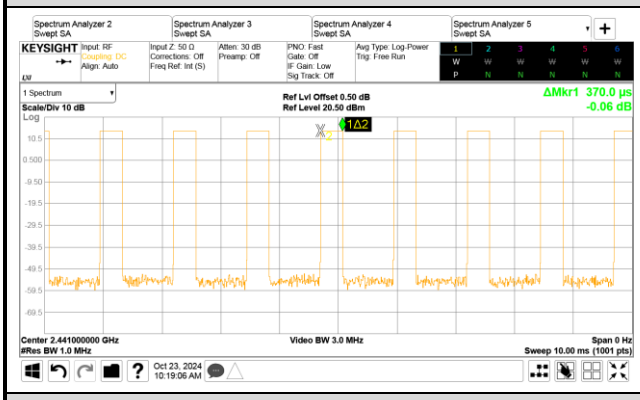
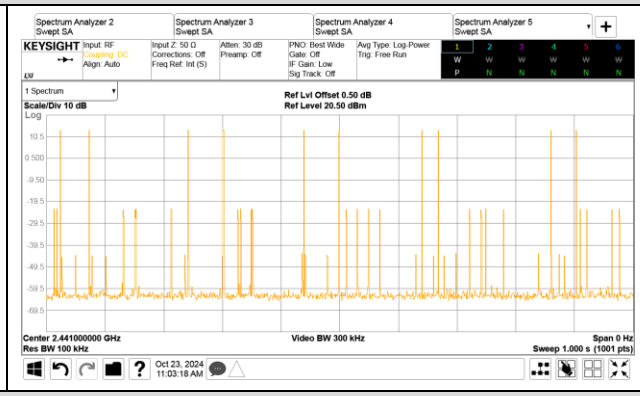
GFSK	
2441MHz	
DH1	
	
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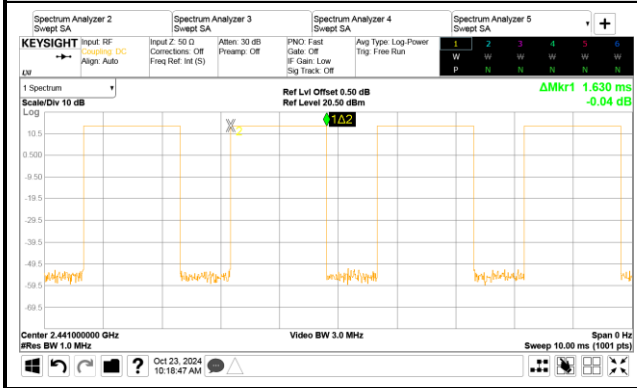
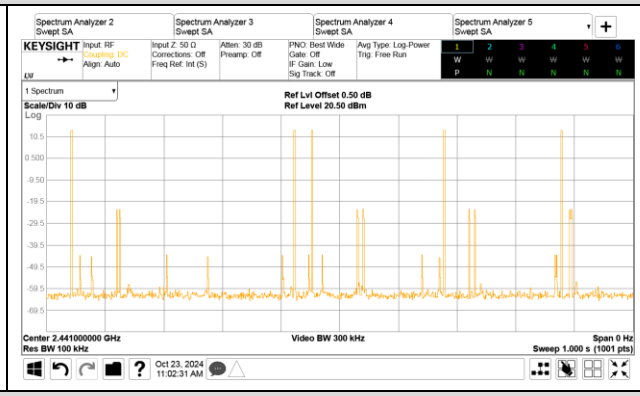
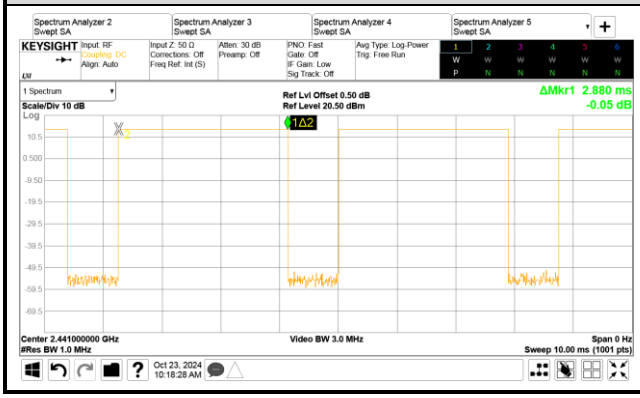
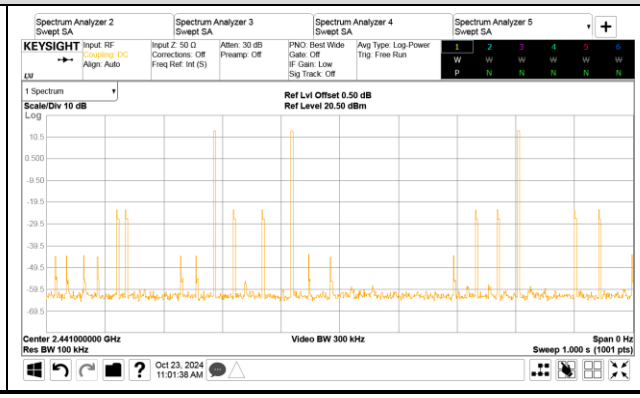
	
DH5	
	

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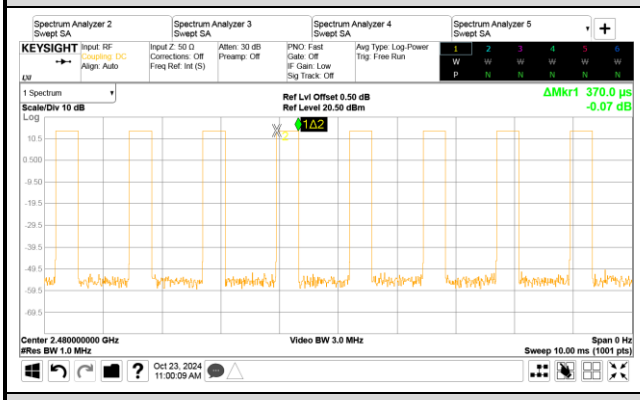
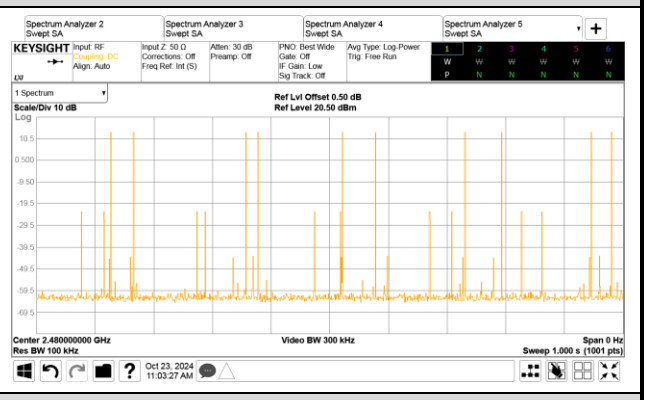
GFSK	
2480MHz	
DH1	
	
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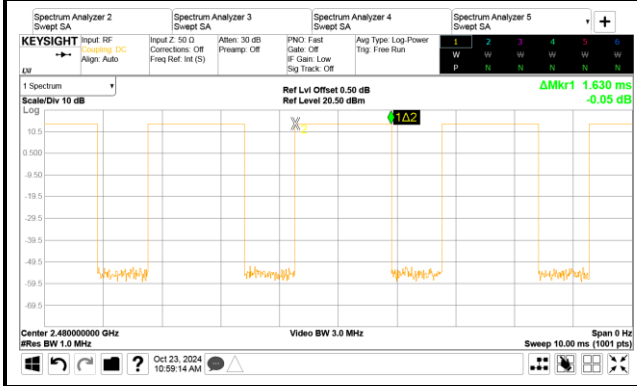	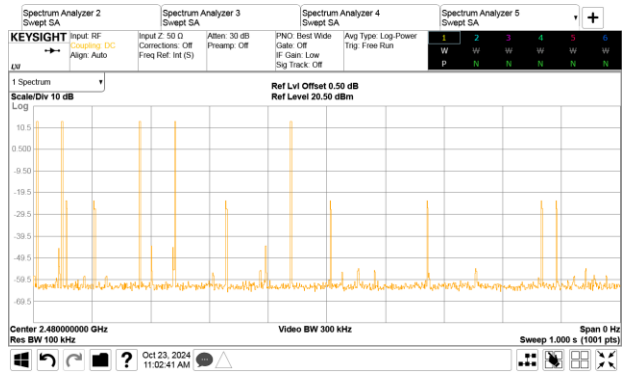
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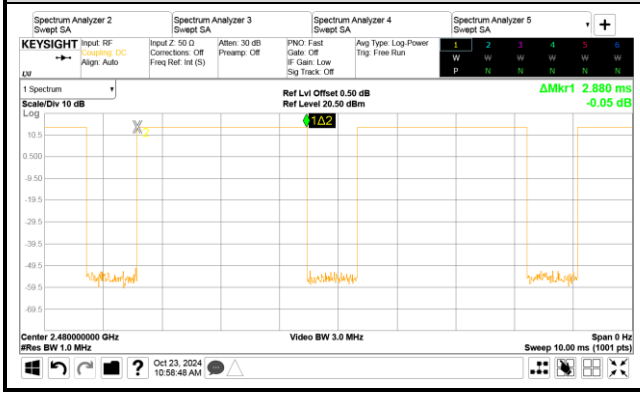	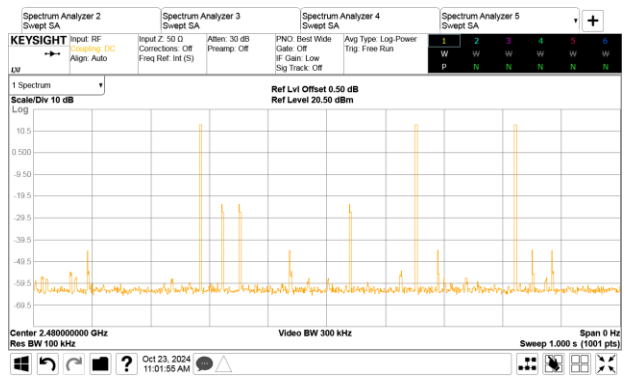

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Mode	Centre Frequency (MHz)	Mode	Each second appearance transmission	Time of Occupancy (ms)	Maximum accumulated Time of Occupancy (ms)	Limit (ms)
8-DPSK	2402	3DH1	10	0.380	120.080	<400
		3DH3	5	1.630	257.540	<400
		3DH5	3	2.880	273.024	<400

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)

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	2.890	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)

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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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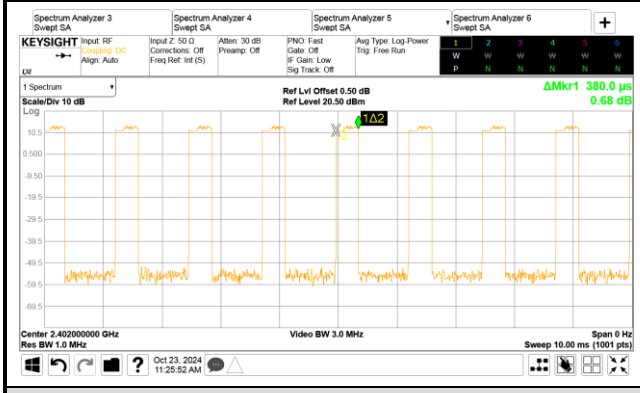
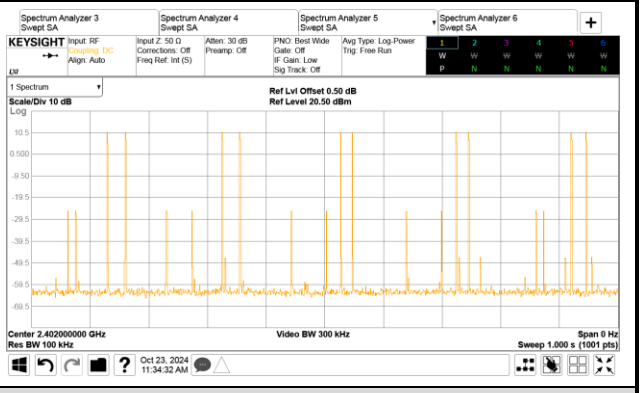
- Measurement Plots

8-DPSK	
2402MHz	
3DH1	
	
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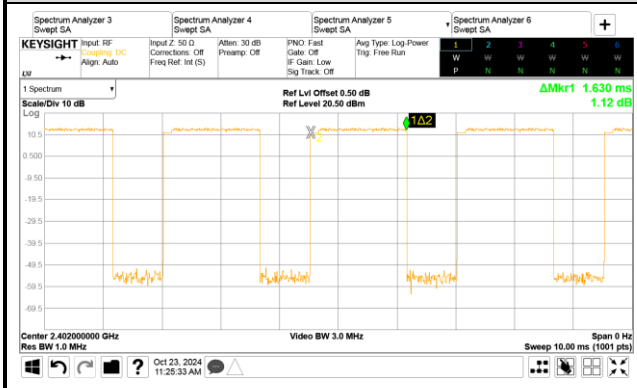	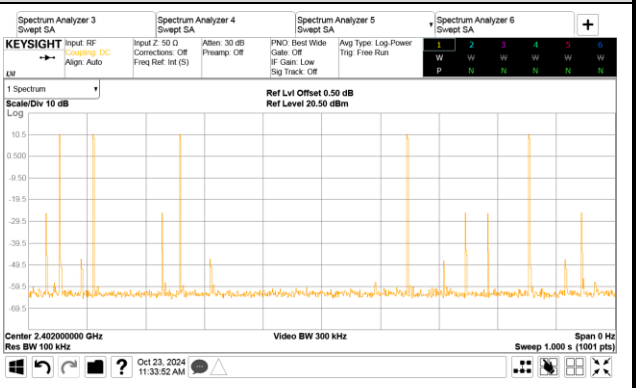
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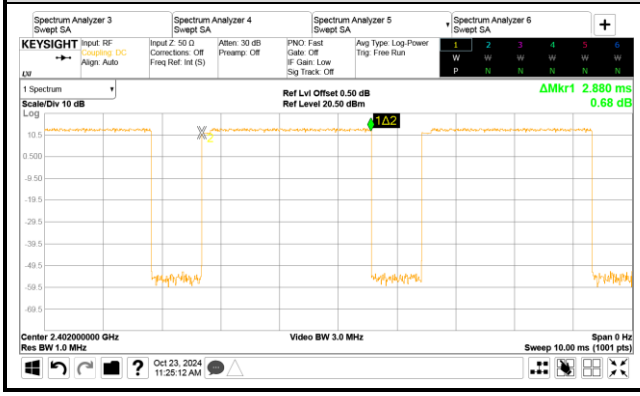	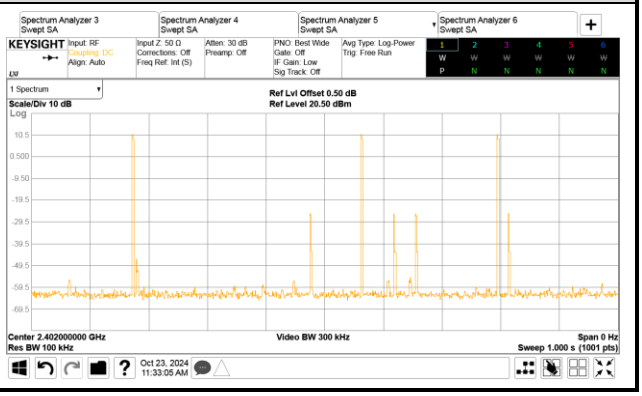

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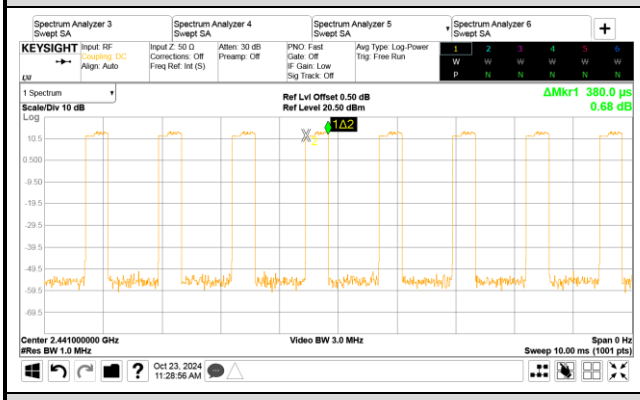
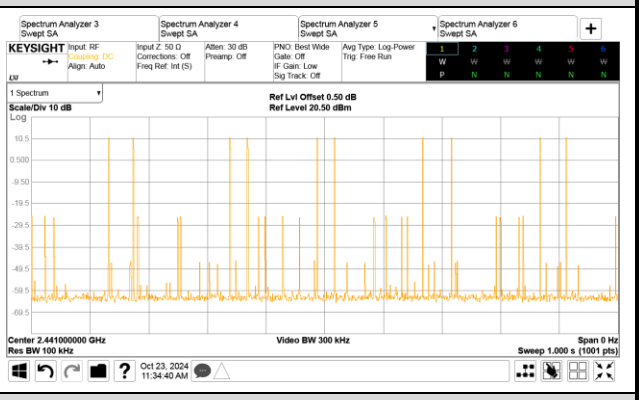
8-DPSK	
2441MHz	
3DH1	
	
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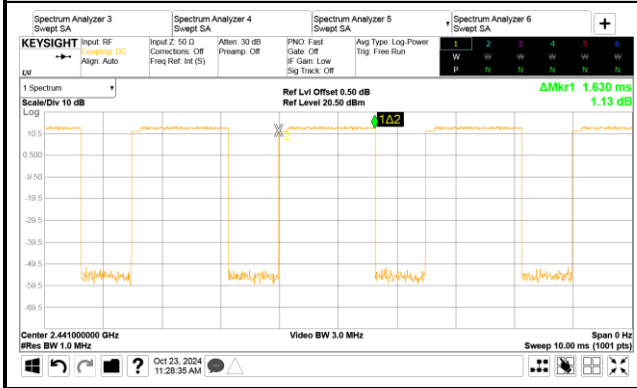	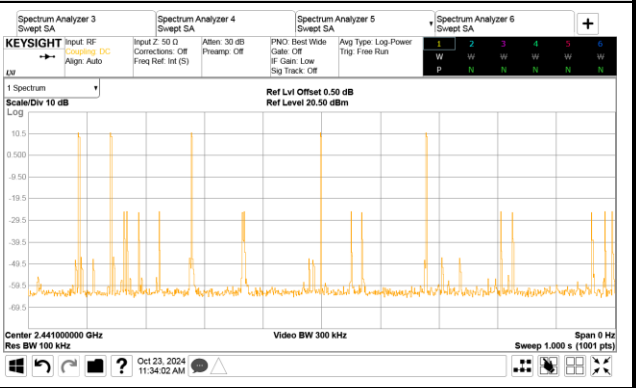
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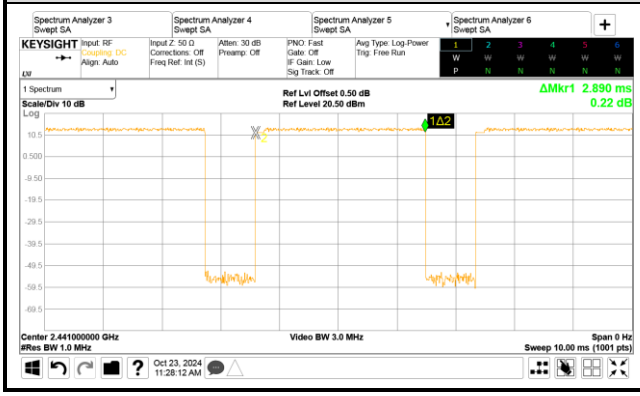	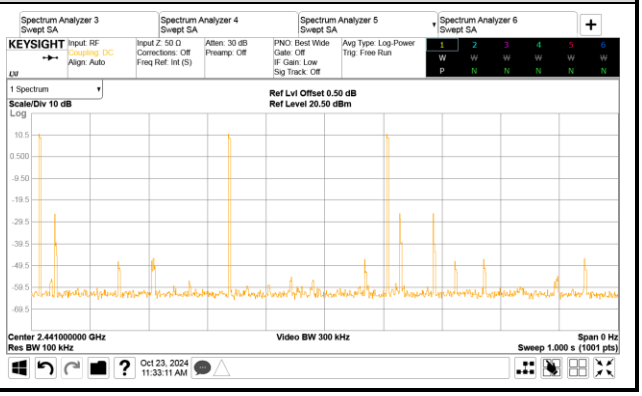

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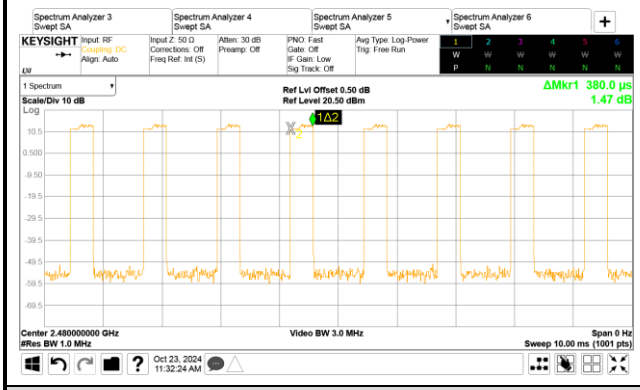
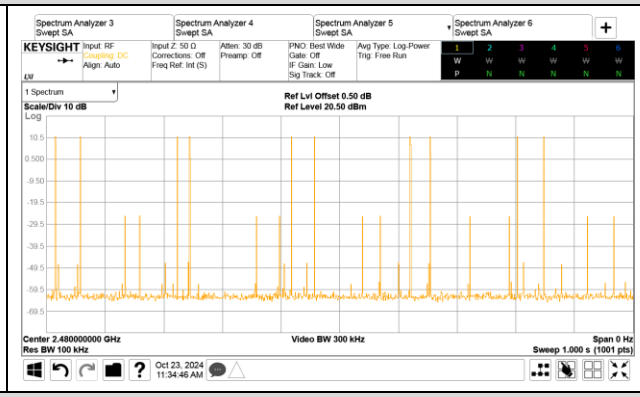
8-DPSK	
2480MHz	
3DH1	
	
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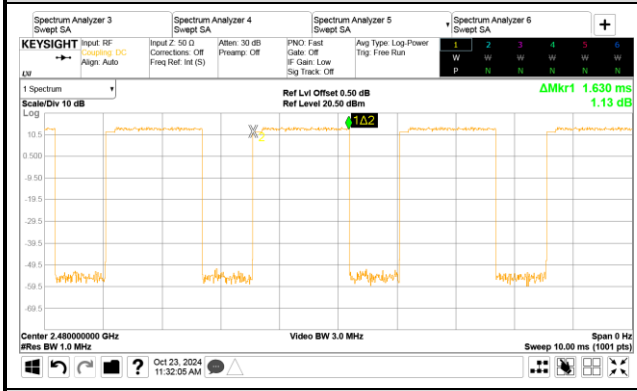	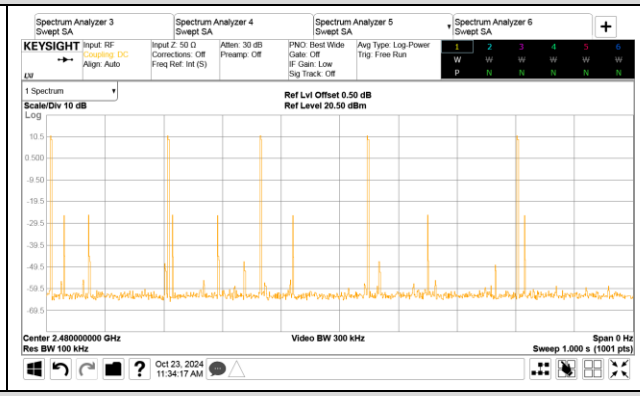
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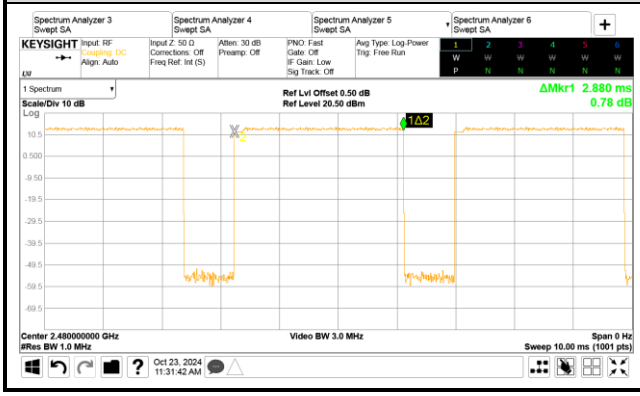	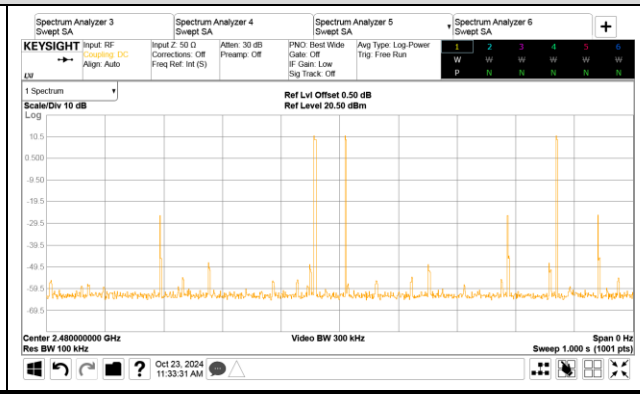

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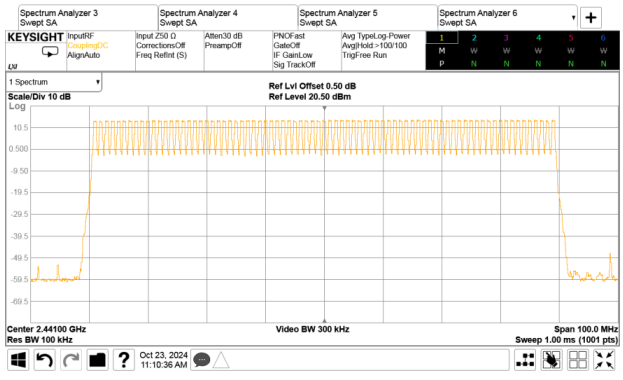
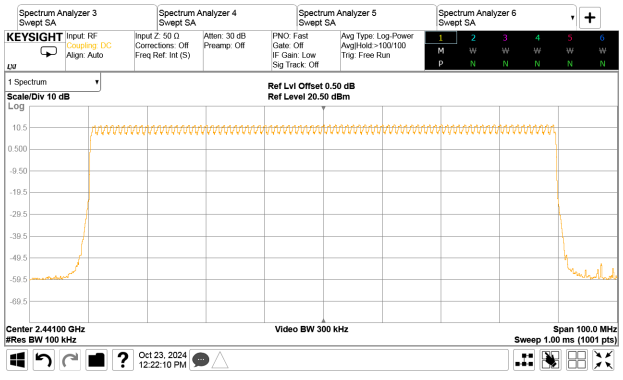
A.6 NUMBER OF HOPPING CHANNELS

Test Date	2024/10/23	Temp./Hum.	24℃/57%
Cable Loss	0.50 dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

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

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A.7 MAXIMUM PEAK OUTPUT POWER

Test Date	2024/10/23	Temp./Hum.	24℃/57%
Cable Loss	0.50 dB	Tested By	Kuper Hsu
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	14.00	0.025	21dBm (0.125W)
	2441	14.16	0.026	
	2480	14.16	0.026	
8-DPSK	2402	13.99	0.025	
	2441	14.17	0.026	
	2480	14.18	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	12.82	1.124	12.82	0.019	21dBm (0.125W)
	2441	12.96	1.124	12.96	0.020	
	2480	13.00	1.124	13.00	0.020	
8-DPSK	2402	10.48	1.124	11.60	0.014	
	2441	10.65	1.124	11.77	0.015	
	2480	10.62	1.124	11.74	0.015	

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A.8 EMISSION LIMITATIONS MEASUREMENT

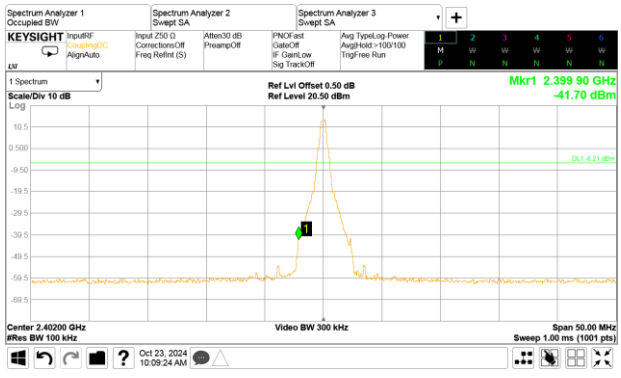
Test Date	2024/10/23	Temp./Hum.	24℃/57%
Cable Loss	0.50 dB	Tested By	Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.8.1 Band Edge

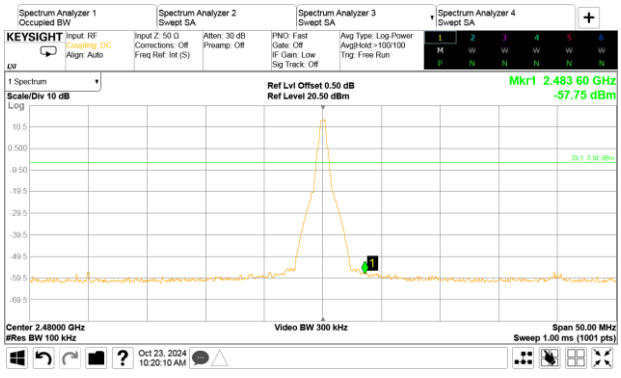
GFSK

Single Channel

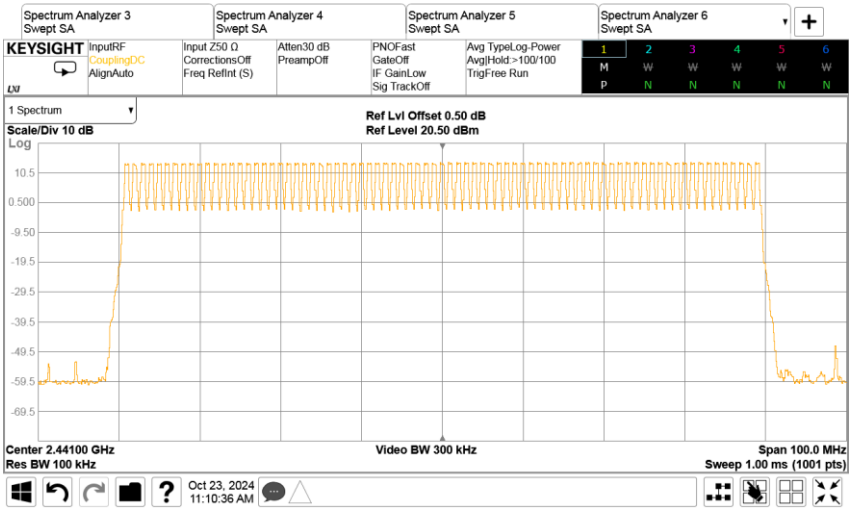
Low channel



High channel



Hopping Mode



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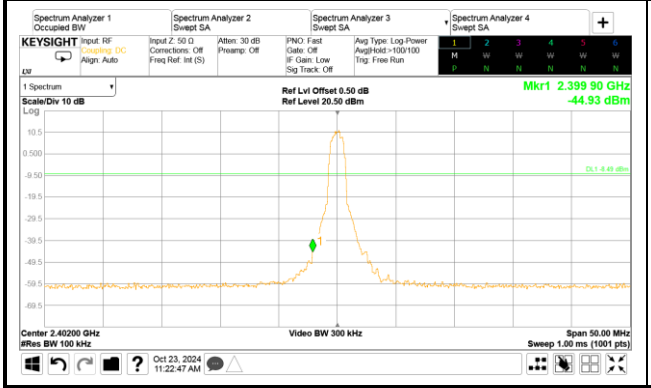
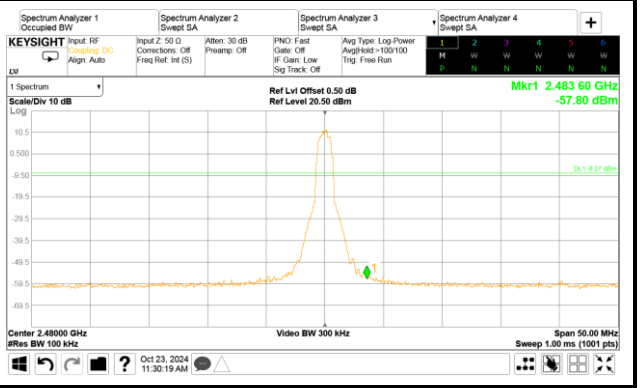
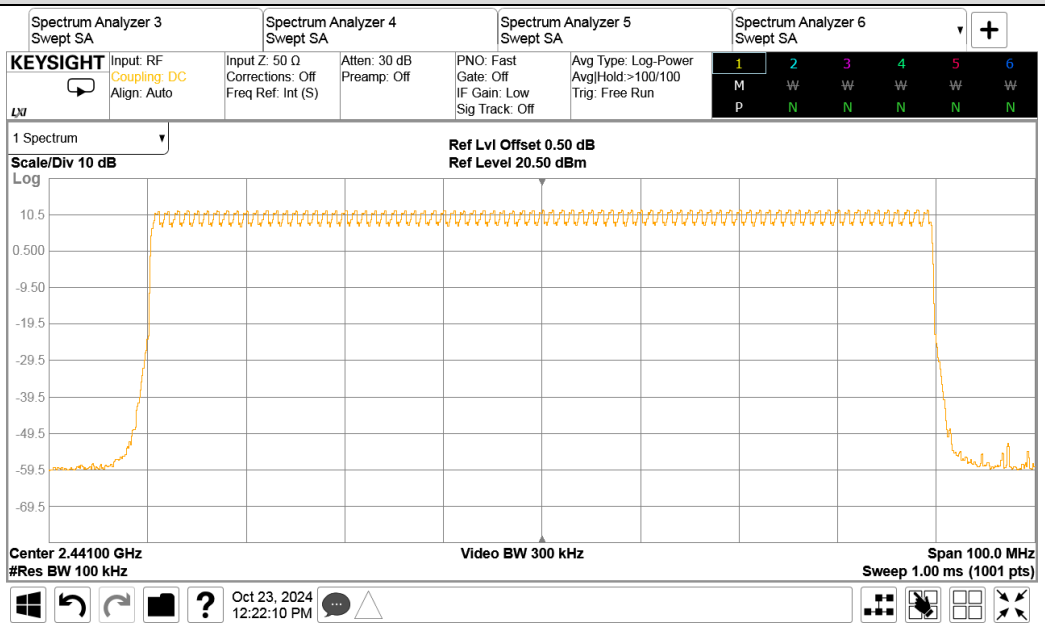
8-DPSK	
Single Channel	
Low channel	High channel
	
Hopping Mode	
	

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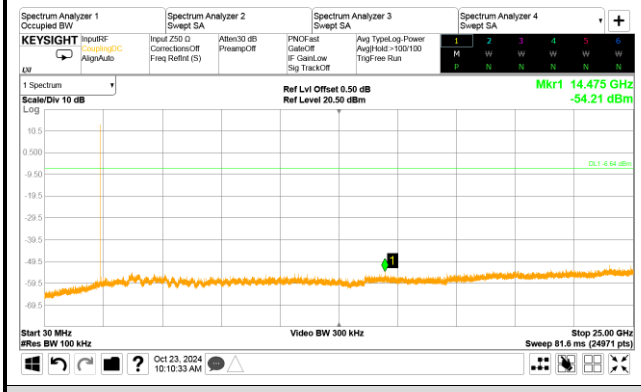
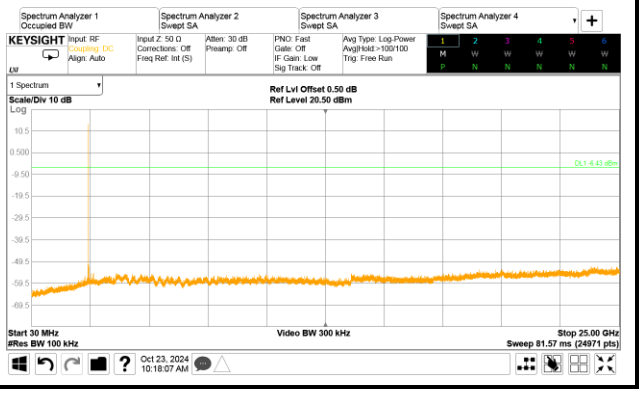
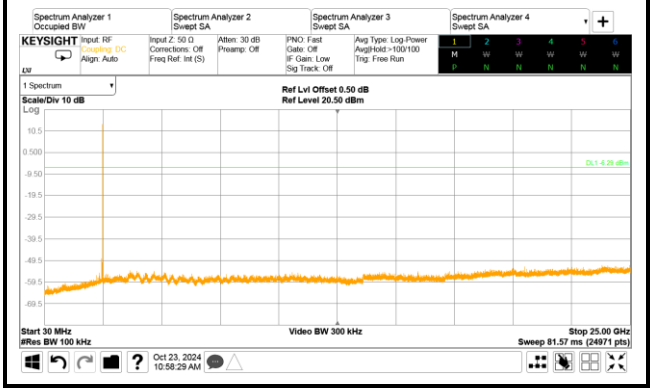
A.8.2 Spurious Emission

GFSK	
2402MHz	2441MHz
30MHz –25GHz	30MHz –25GHz
	
2480MHz	
30MHz –25GHz	
	

Note: All results have been included cable loss.

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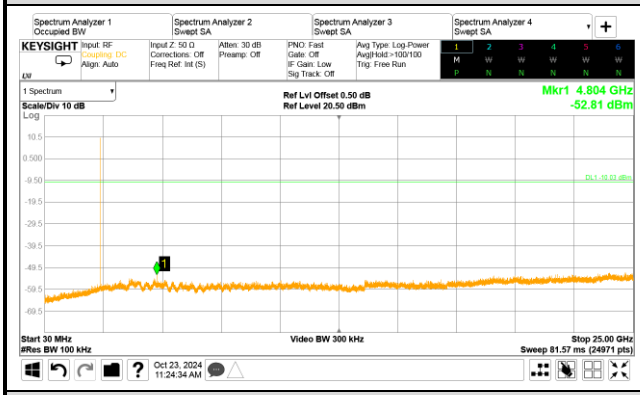
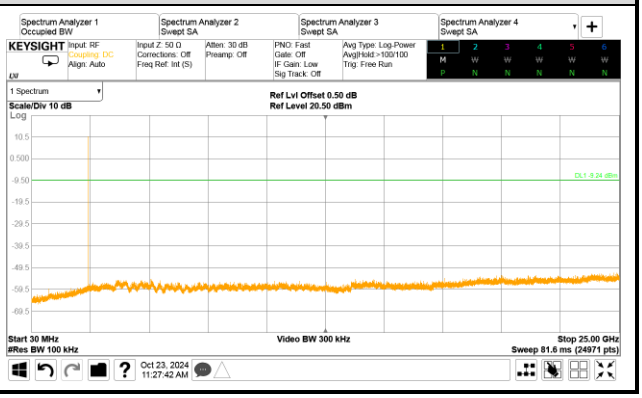
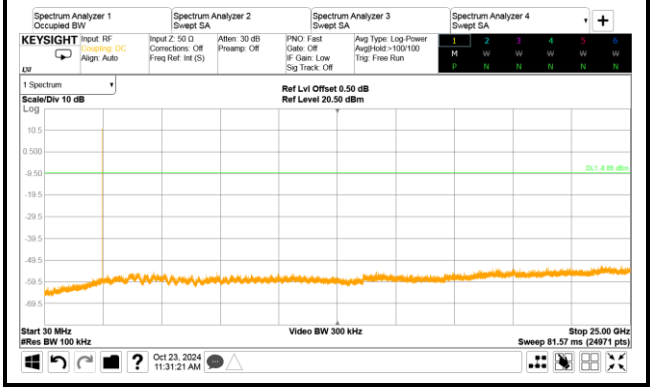
8-DPSK	
2402MHz	2441MHz
30MHz –25GHz	30MHz –25GHz
	
2480MHz	
30MHz –25GHz	
	

Note: All results have been included cable loss.

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