

9. TEST RESULT

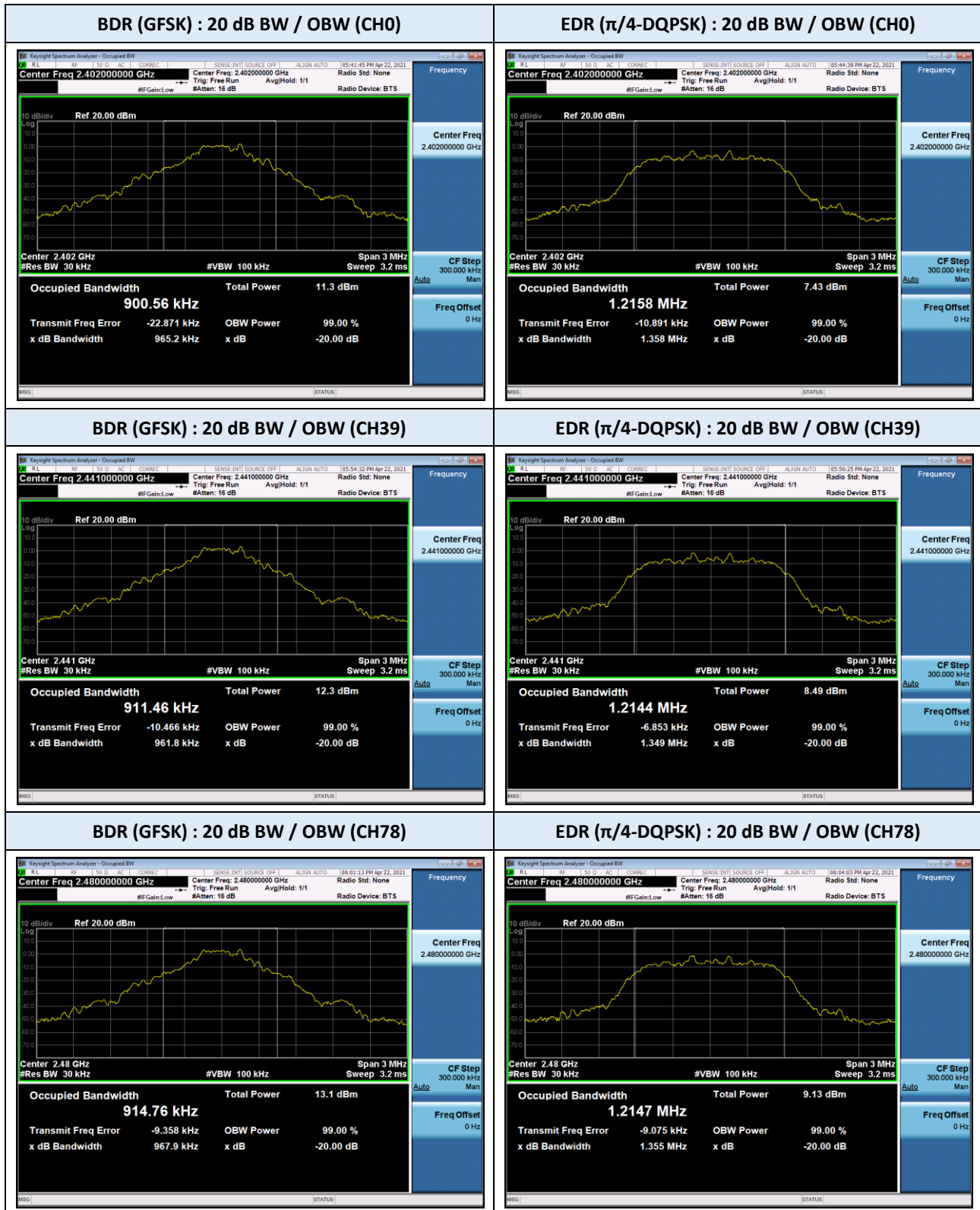
9.1. 20 dB BANDWIDTH / 99% BANDWIDTH MEASUREMENT

BDR (GFSK)		99% Bandwidth (kHz)	20 dB Bandwidth (kHz)	
Frequency (MHz)	Channel	Result	Result	Limit
2 402	0	900.56	965.19	-
2 441	39	911.46	961.77	
2 480	78	914.76	967.88	

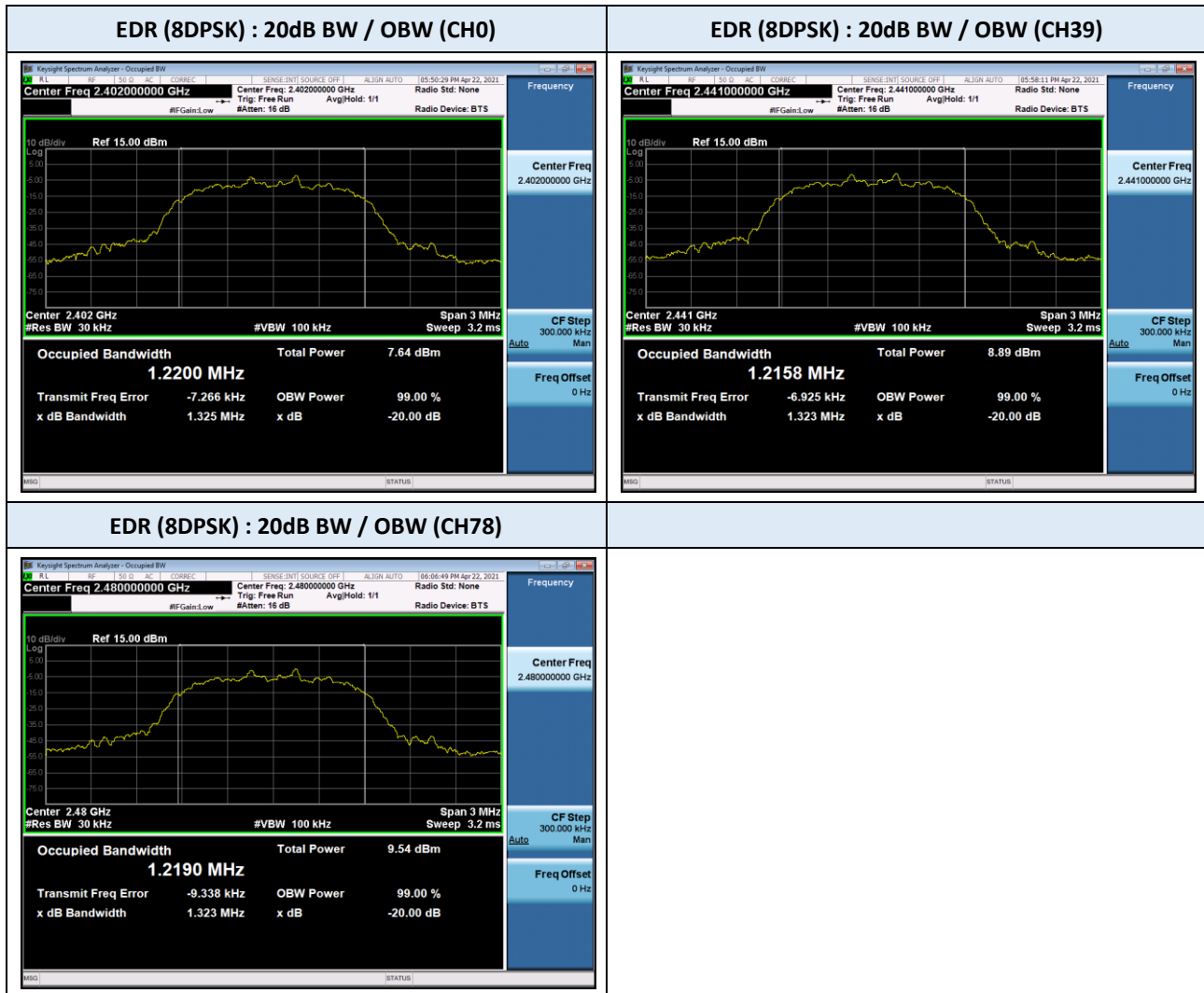
EDR ($\pi/4$ -DQPSK)		99% Bandwidth (kHz)	20 dB Bandwidth (kHz)	
Frequency (MHz)	Channel	Result	Result	Limit
2 402	0	1 215.78	1 357.74	-
2 441	39	1 214.42	1 349.12	
2 480	78	1 214.71	1 354.85	

EDR (8DPSK)		99% Bandwidth (kHz)	20 dB Bandwidth (kHz)	
Frequency (MHz)	Channel	Result	Result	Limit
2 402	0	1 220.00	1 325.04	-
2 441	39	1 215.78	1 322.73	
2 480	78	1 219.02	1 323.33	

TEST PLOTS



TEST PLOTS



9.2. OUTPUT POWER

Peak Power

BDR (GFSK)		Test Result		
Frequency (MHz)	Channel No.	Measured Power (dBm)	Limit (dBm)	Result
2 402	0	3.281	30	Compliant
2 441	39	4.250	30	Compliant
2 480	78	4.943	30	Compliant

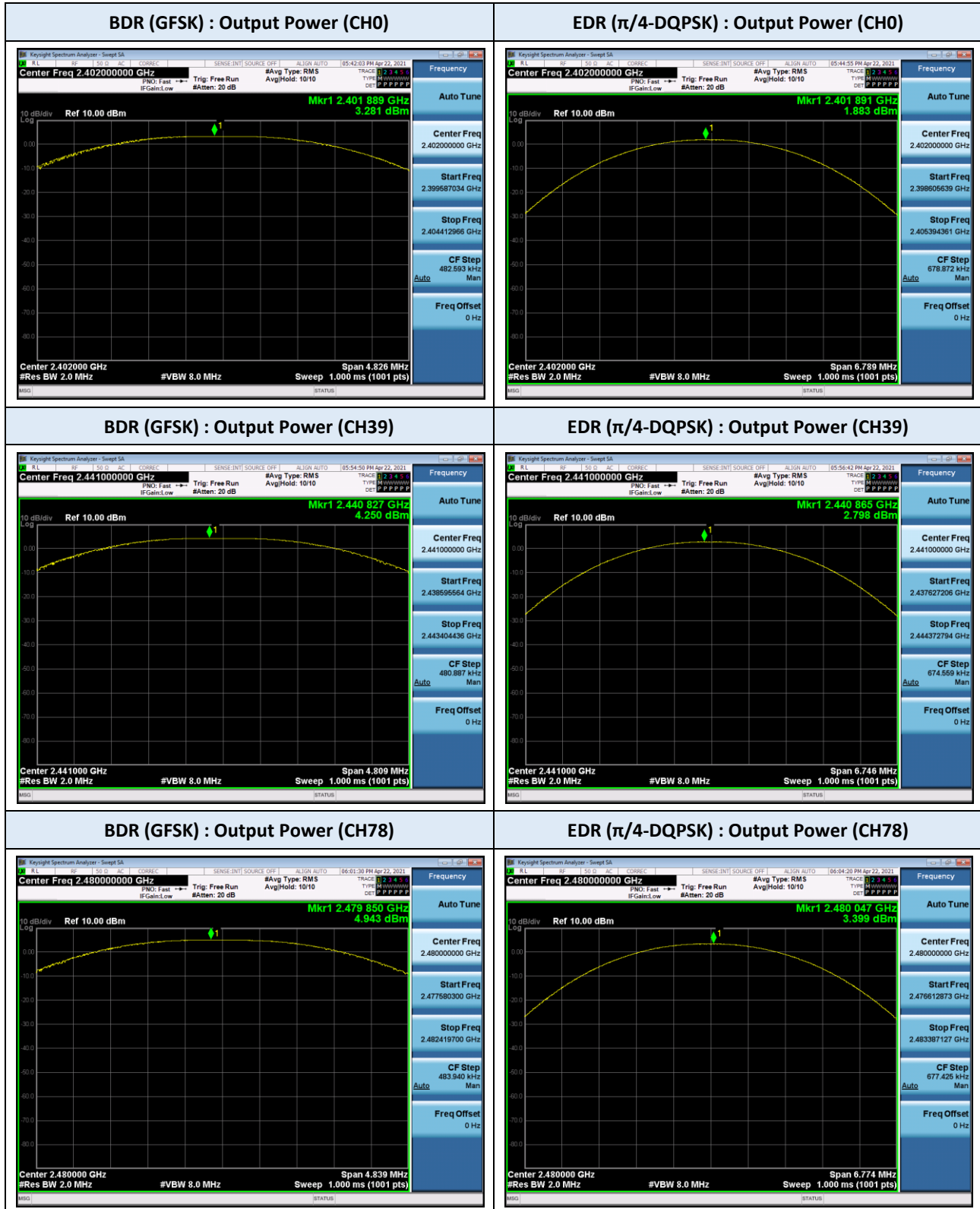
EDR ($\pi/4$ -DQPSK)		Test Result		
Frequency (MHz)	Channel No.	Measured Power (dBm)	Limit (dBm)	Result
2 402	0	1.883	30	Compliant
2 441	39	2.798	30	Compliant
2 480	78	3.399	30	Compliant

EDR (8DPSK)		Test Result		
Frequency (MHz)	Channel No.	Measured Power (dBm)	Limit (dBm)	Result
2 402	0	2.209	30	Compliant
2 441	39	3.368	30	Compliant
2 480	78	3.945	30	Compliant

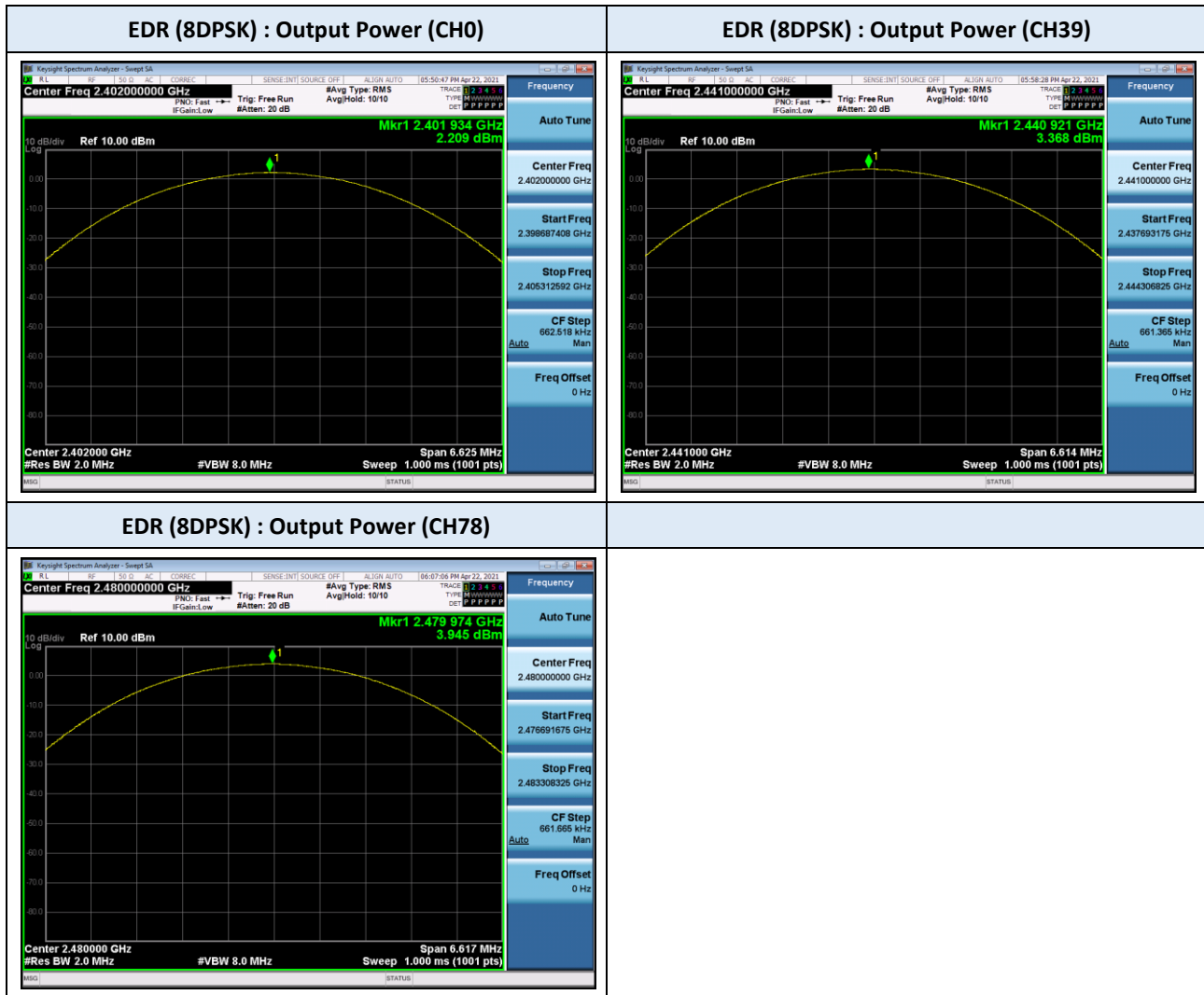
Note(s) :

1. The output power results in plot include the spectrum offset, which is a combination loss of the attenuator and the cable used for testing

TEST PLOTS



TEST PLOTS



9.3. NUMBER OF HOPPING CHANNELS

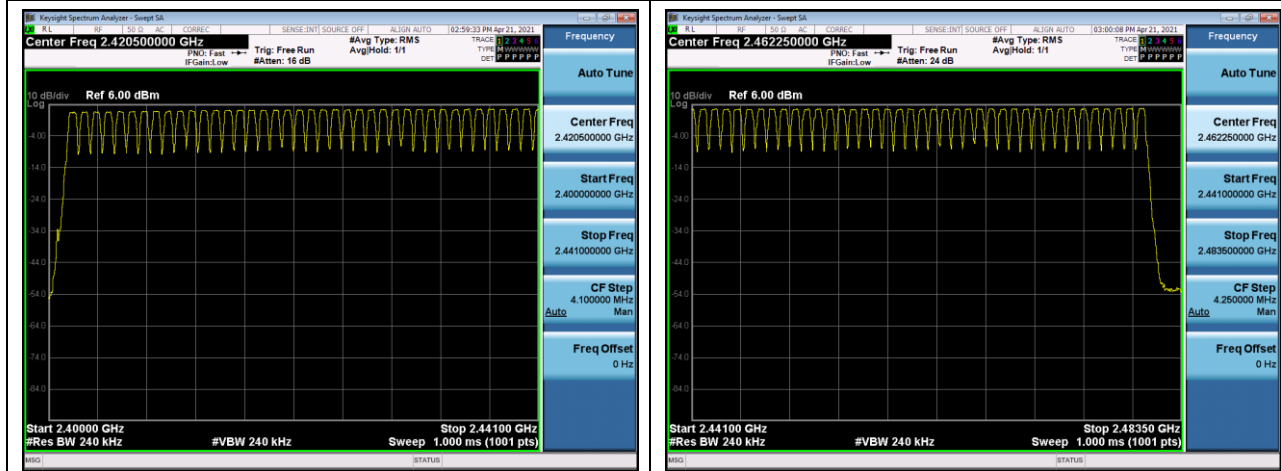
BDR (GFSK)		Test Result	
Frequency Range (MHz)	No. of Channels	Limit	Result
2 402 – 2 480	79	≥ 15	Compliant

EDR ($\pi/4$ -DQPSK)		Test Result	
Frequency Range (MHz)	No. of Channels	Limit	Result
2 402 – 2 480	79	≥ 15	Compliant

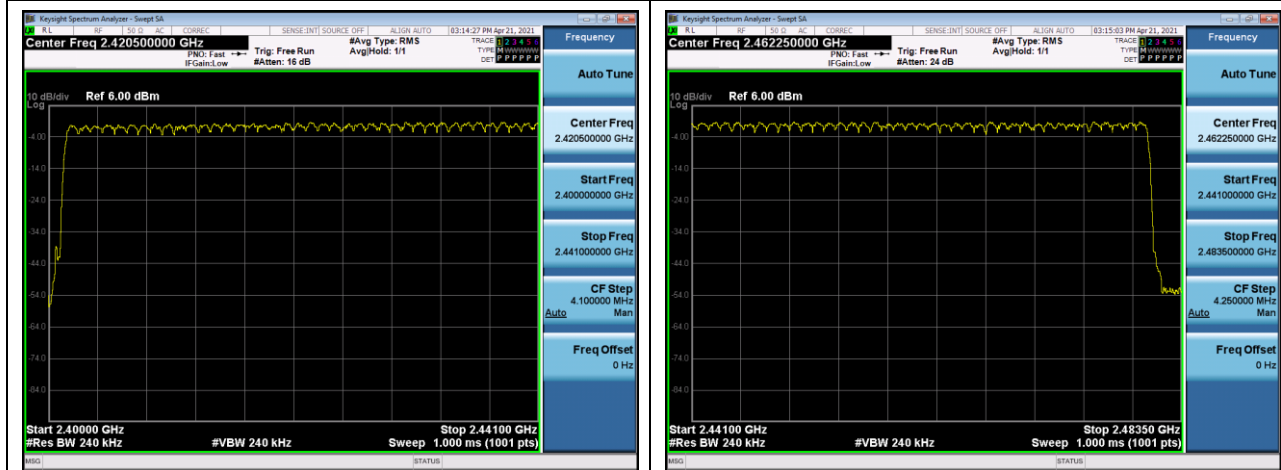
EDR (8DPSK)		Test Result	
Frequency Range (MHz)	No. of Channels	Limit	Result
2 402 – 2 480	79	≥ 15	Compliant

TEST PLOTS

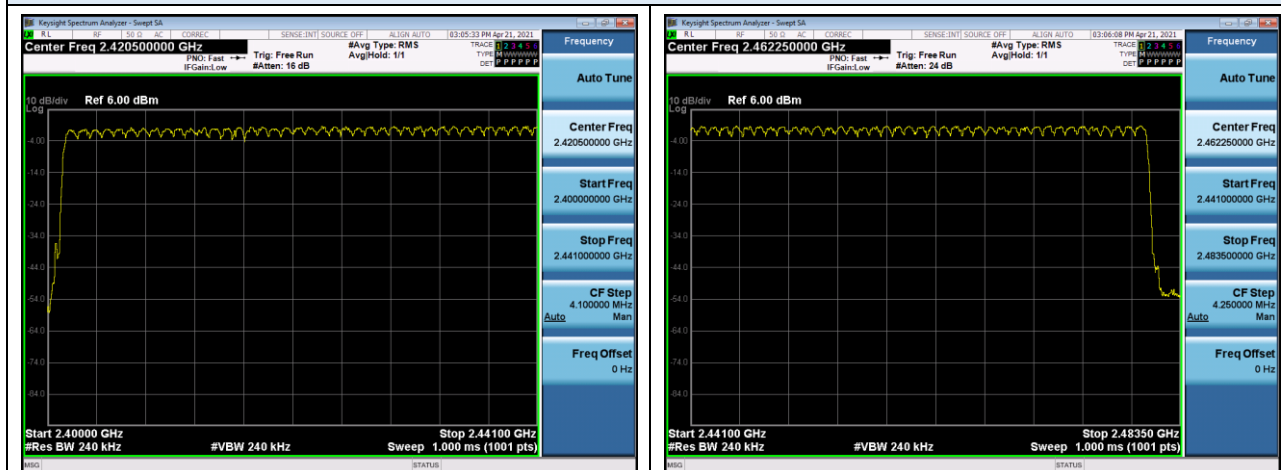
BDR (GFSK) : Number of Hopping Channels



EDR ($\pi/4$ -DQPSK) : Number of Hopping Channels



EDR (8DPSK) : Number of Hopping Channels



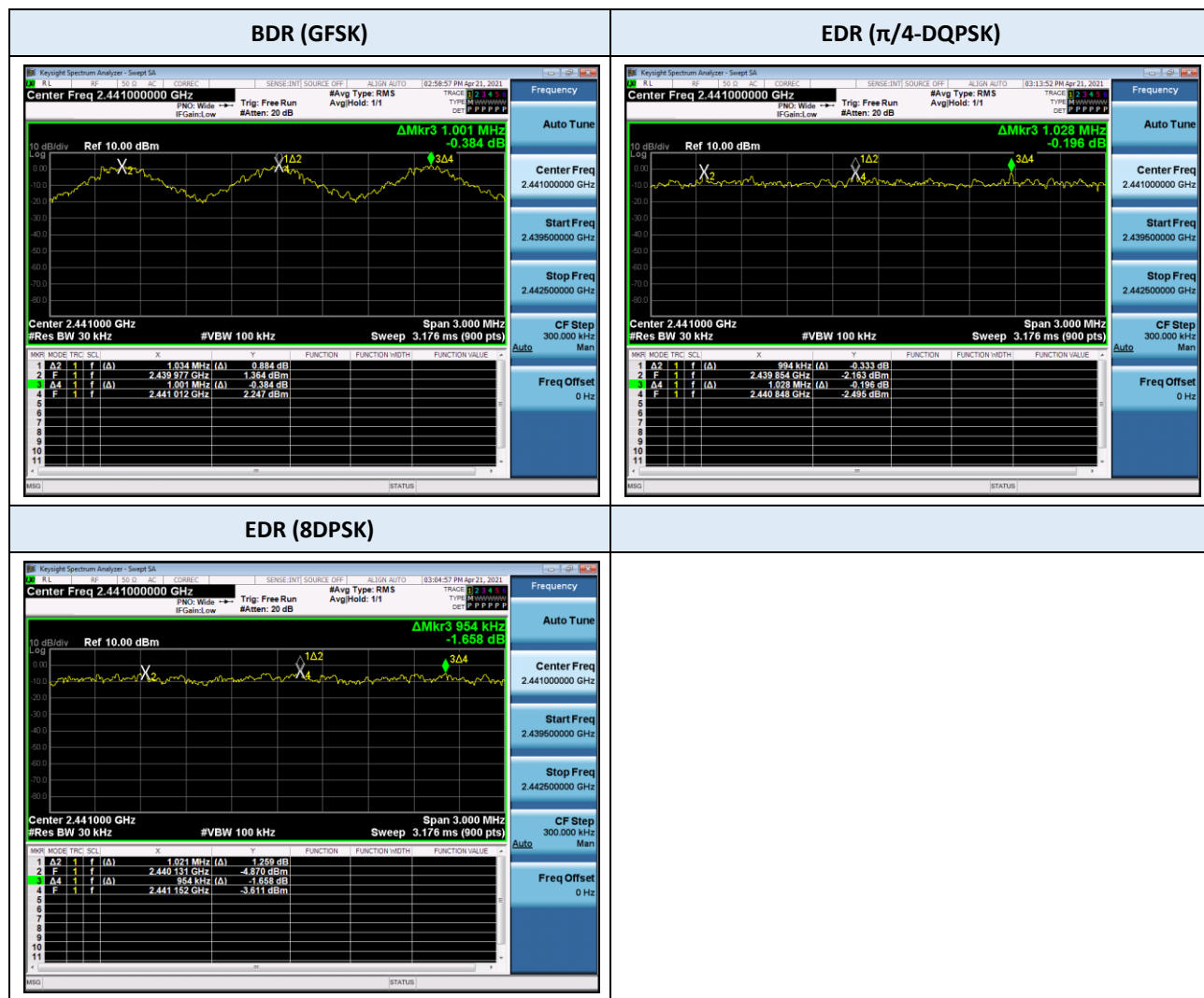
9.4. CARRIER FREQUENCY SEPARATION

Mode	Test Result		
	Separation (kHz)	Limit (kHz) ¹⁾	Result
BRD (GFSK)	1 001.11	≥ 645.25	Compliant
EDR ($\pi/4$ -DQPSK)	994.44	≥ 905.16	Compliant
EDR (8DPSK)	954.39	≥ 883.36	Compliant

Note(s) :

- 2/3 of the highest 20 dB was used as the limit since it is greater than 25 kHz and the peak output power did not exceed 0.125 W.

TEST PLOTS



9.5. TIME OF OCCUPANCY

Mode	Data Rate	Frequency (MHz)	Pulse Time (ms)	No of Hops	Dwell Time (ms)	Limit (ms)	Result
BDR (GFSK)	1-DH1	2 441	0.380	320	121.60	≤ 400	Compliant
	1-DH3	2 441	1.640	160	262.40		Compliant
	1-DH5	2 441	2.890	106.6	308.27		Compliant
EDR ($\pi/4$ -DQPSK)	2-DH1	2 441	0.390	320	124.80	≤ 400	Compliant
	2-DH3	2 441	1.640	160	262.40		Compliant
	2-DH5	2 441	2.890	106.6	308.27		Compliant
EDR (8DPSK)	3-DH1	2 441	0.390	320	124.80	≤ 400	Compliant
	3-DH3	2 441	1.640	160	262.40		Compliant
	3-DH5	2 441	2.890	106.6	308.27		Compliant

Note(s) :

Max permitted DH1 packet : $1600 / 79 / 2 = 10.12$ hops/sec in each channel.
 Number of hops within 31.6 seconds = $10.12 \text{ hops/sec} \times 31.6 \text{ sec} = 320$ hops

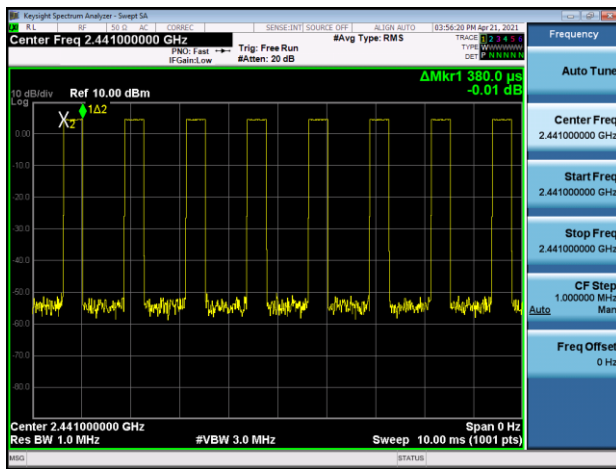
Max permitted DH3 packet : $1600 / 79 / 4 = 5.06$ hops/sec in each channel.
 Number of hops within 31.6 seconds = $5.06 \text{ hops/sec} \times 31.6 \text{ sec} = 160$ hops

Max permitted DH5 packet : $1600 / 79 / 6 = 3.37$ hops/sec in each channel.
 Number of hops within 31.6 seconds = $3.37 \text{ hops/sec} \times 31.6 \text{ sec} = 106.6$ hops

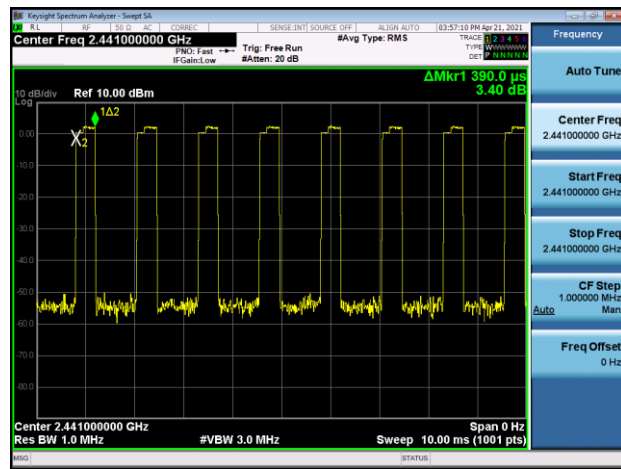
Time of Occupancy (Dwell Time) = Pulse Time x Number of Hops within 31.6 seconds.

TEST PLOTS

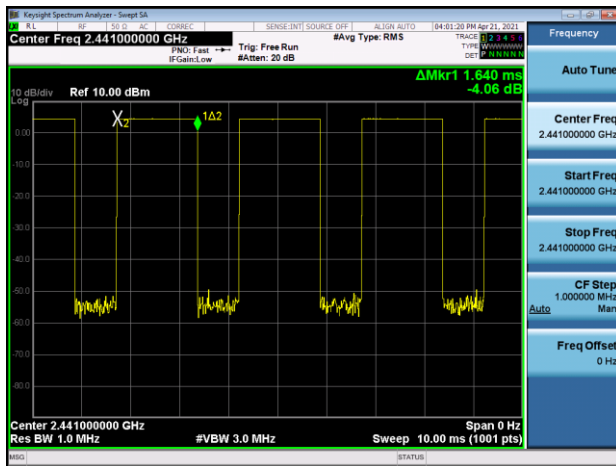
BDR (GFSK) : 1-DH1



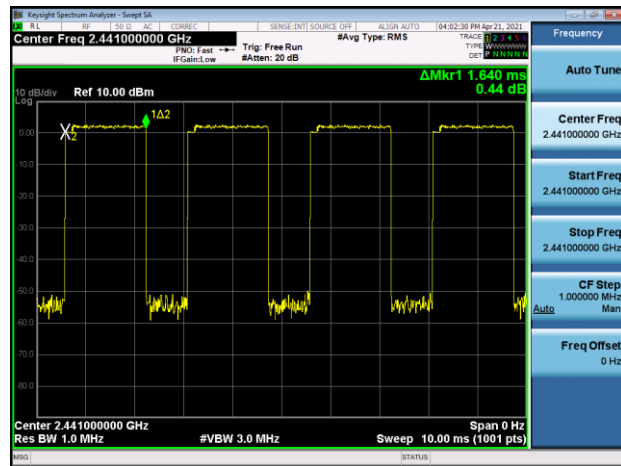
EDR ($\pi/4$ -DQPSK) : 2-DH1



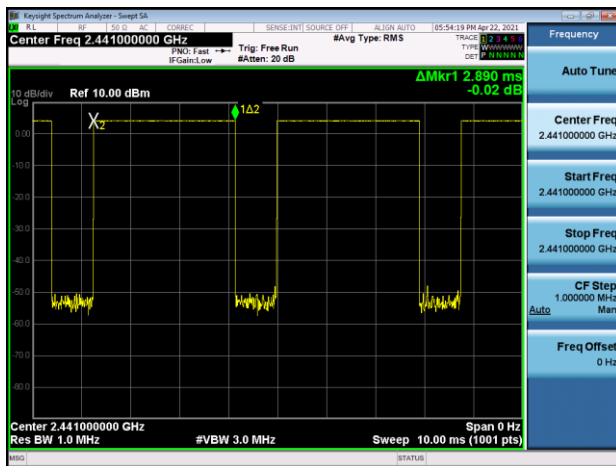
BDR (GFSK) : 1-DH3



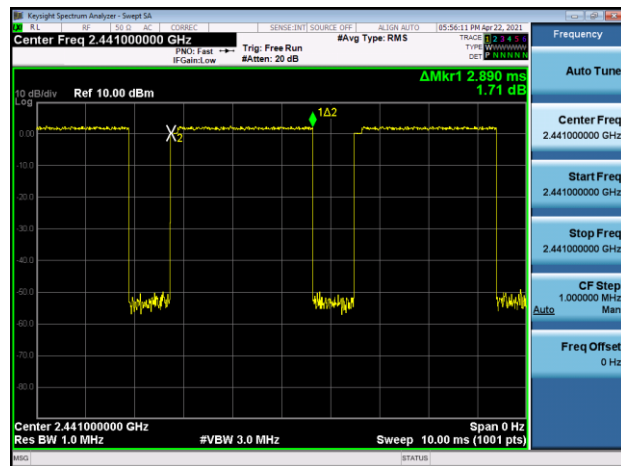
EDR ($\pi/4$ -DQPSK) : 2-DH3



BDR (GFSK) : 1-DH5

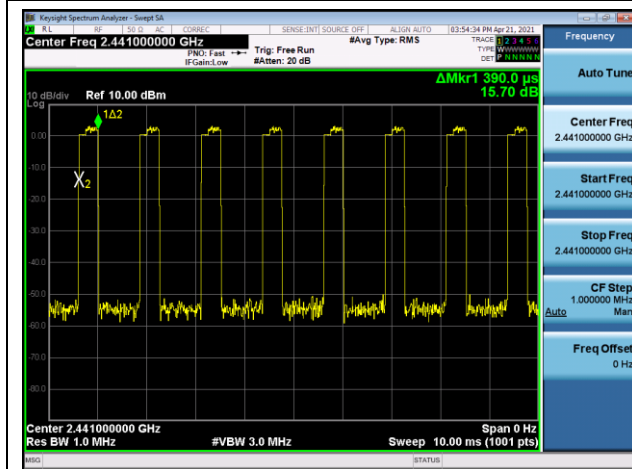


EDR ($\pi/4$ -DQPSK) : 2-DH5

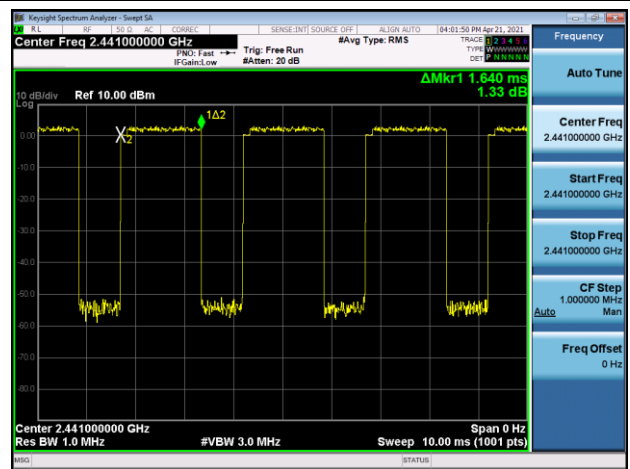


TEST PLOTS

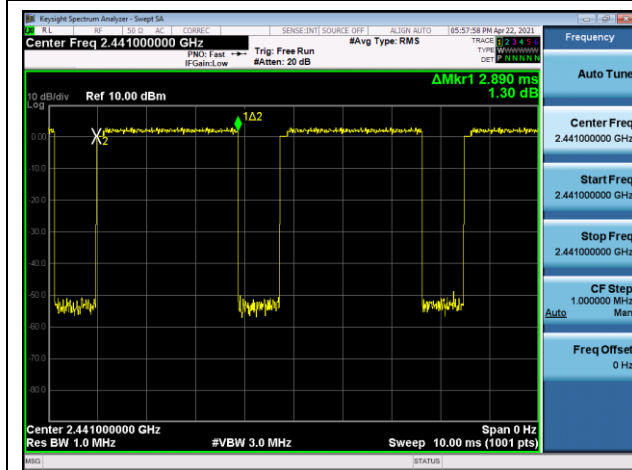
EDR (8DPSK) : 3-DH1



EDR (8DPSK) : 3-DH3



EDR (8DPSK) : 3-DH5



9.6. CONDUCTED BAND EDGE & SPURIOUS EMISSIONS

Out of Band Emissions at the Band Edge : Non-Hopping Mode

Mode	Frequency [MHz]	Channel	Position	Measured Level [dBc]	Limit [dBc]	Result
BDR (GFSK)	2 402	0	Low	57.987	20	Compliant
	2 480	78	High	61.056	20	Compliant
EDR ($\pi/4$ -DQPSK)	2 402	0	Low	55.515	20	Compliant
	2 480	78	High	57.127	20	Compliant
EDR (8DPSK)	2 402	0	Low	53.486	20	Compliant
	2 480	78	High	57.270	20	Compliant

Out of Band Emissions at the Band Edge : Hopping Mode

Mode	Frequency [MHz]	Channel	Position	Measured Level [dBc]	Limit [dBc]	Result
BDR (GFSK)	2 402	0	Low	58.979	20	Compliant
	2 480	78	High	60.723	20	Compliant
EDR ($\pi/4$ -DQPSK)	2 402	0	Low	56.546	20	Compliant
	2 480	78	High	56.835	20	Compliant
EDR (8DPSK)	2 402	0	Low	55.984	20	Compliant
	2 480	78	High	57.549	20	Compliant

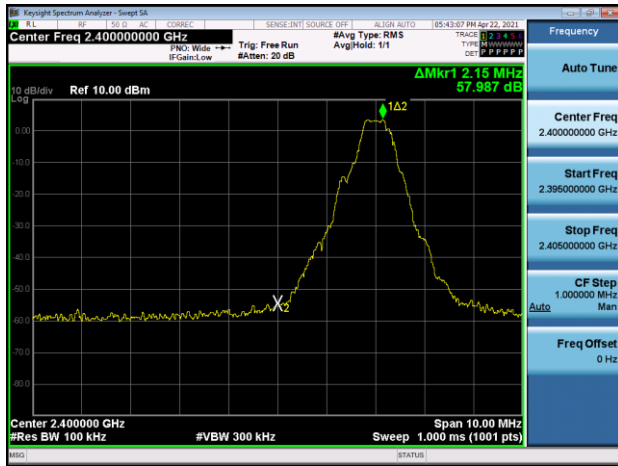
Conducted Spurious Emissions

Mode	Frequency [MHz]	Channel	Position	Measured Level [dBc]	Limit [dBc]	Result
BDR (GFSK)	2 402	0	Low	50.070	20	Compliant
	2 441	39	Middle	51.107	20	Compliant
	2 480	78	High	50.388	20	Compliant
EDR ($\pi/4$ -DQPSK)	2 402	0	Low	45.021	20	Compliant
	2 441	39	Middle	46.600	20	Compliant
	2 480	78	High	47.685	20	Compliant
EDR (8DPSK)	2 402	0	Low	44.902	20	Compliant
	2 441	39	Middle	45.734	20	Compliant
	2 480	78	High	48.192	20	Compliant

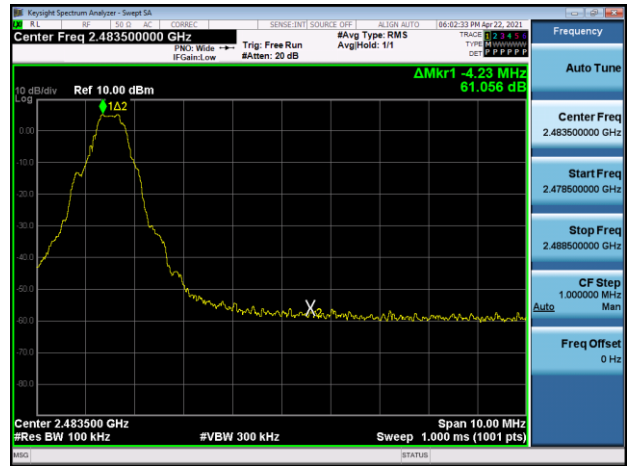
TEST PLOTS

Non-Hopping Mode

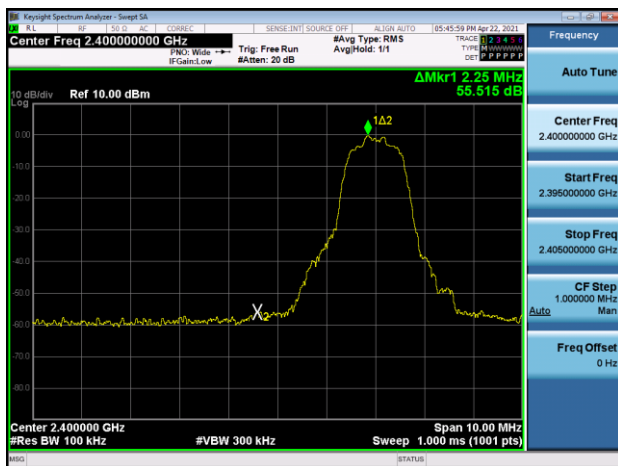
BDR (GFSK) : Band Edge (CH0)



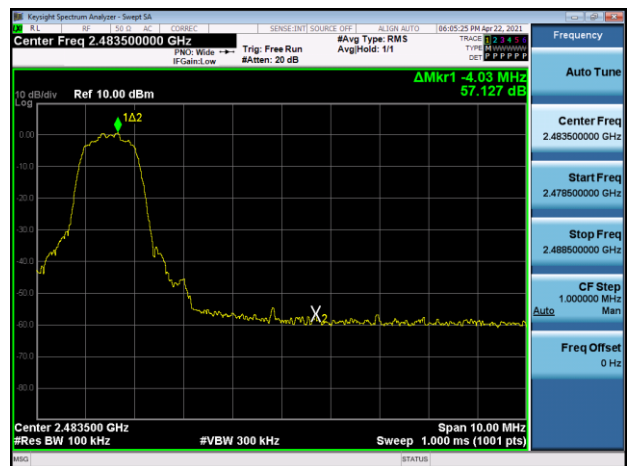
BDR (GFSK) : Band Edge (CH78)



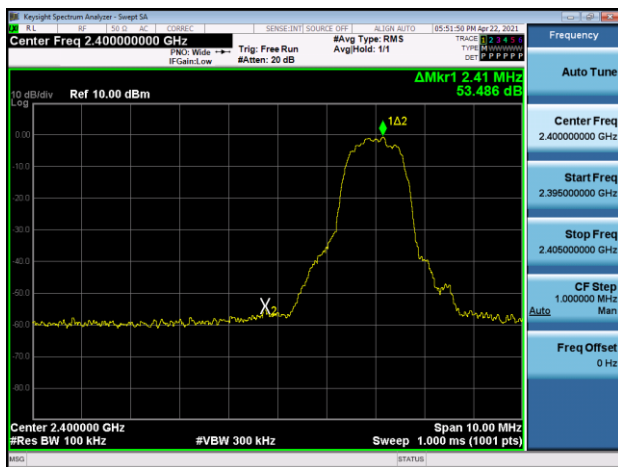
EDR ($\pi/4$ -DQPSK) : Band Edge (CH0)



EDR ($\pi/4$ -DQPSK) : Band Edge (CH78)



EDR (8DPSK) : Band Edge (CH0)



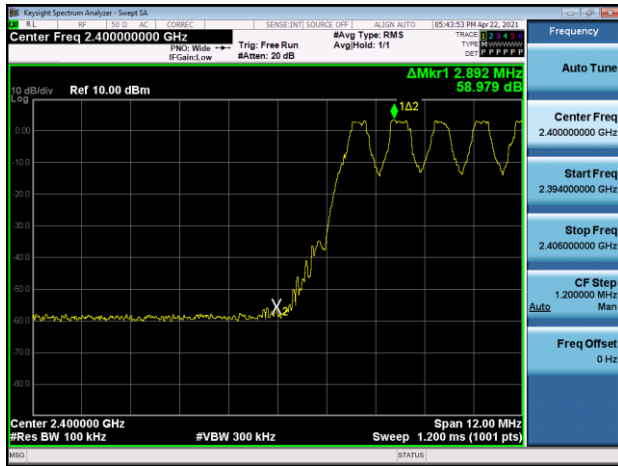
EDR (8DPSK) : Band Edge (CH78)



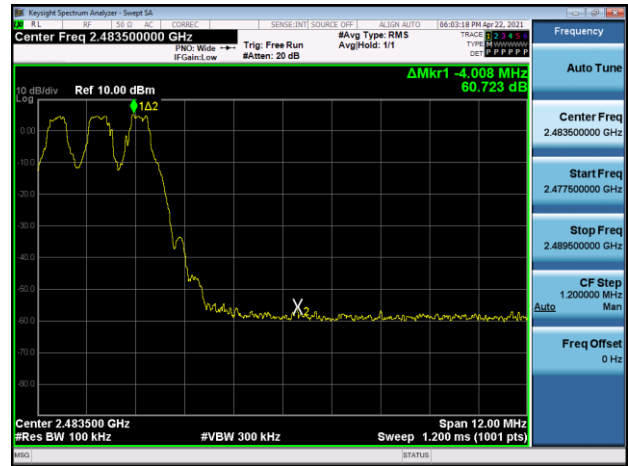
TEST PLOTS

Hopping Mode

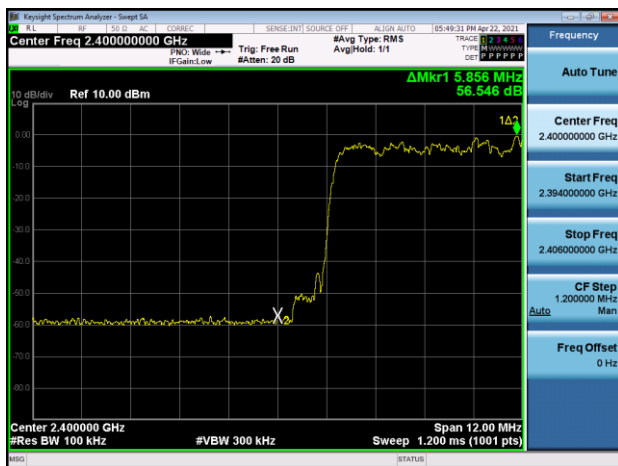
BDR (GFSK) : Band Edge (CH0)



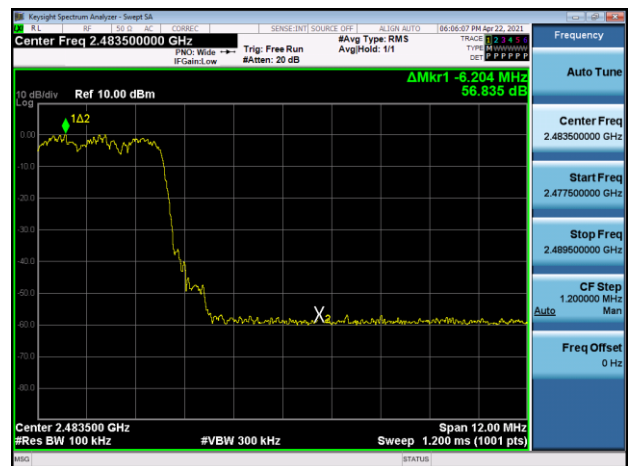
BDR (GFSK) : Band Edge (CH78)



EDR (π/4-DQPSK) : Band Edge (CH0)



EDR (π/4-DQPSK) : Band Edge (CH78)



EDR (8DPSK) : Band Edge (CH0)



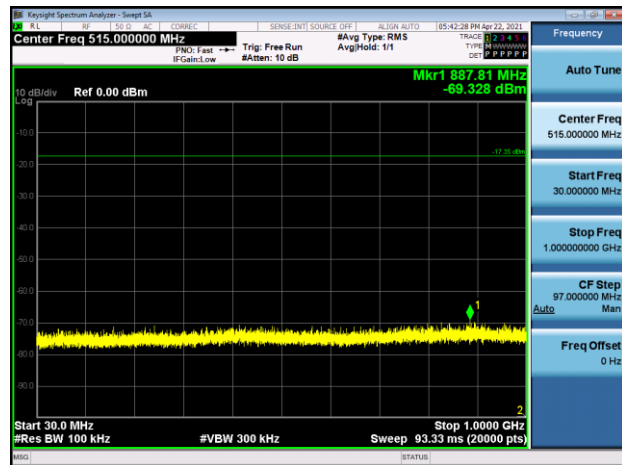
EDR (8DPSK) : Band Edge (CH78)



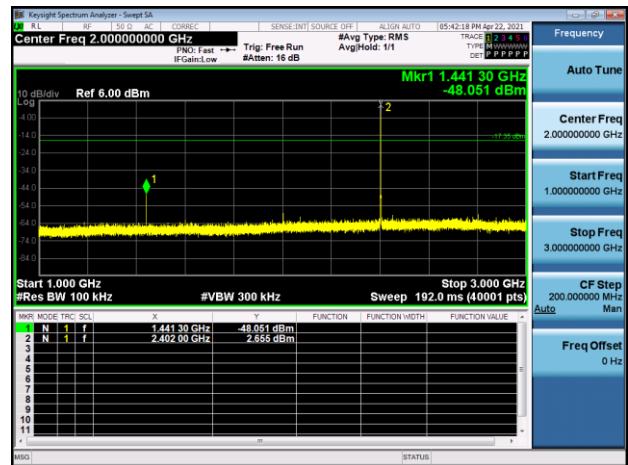
TEST PLOTS

BDR (GFSK) : Conducted Spurious Emission (CH0)

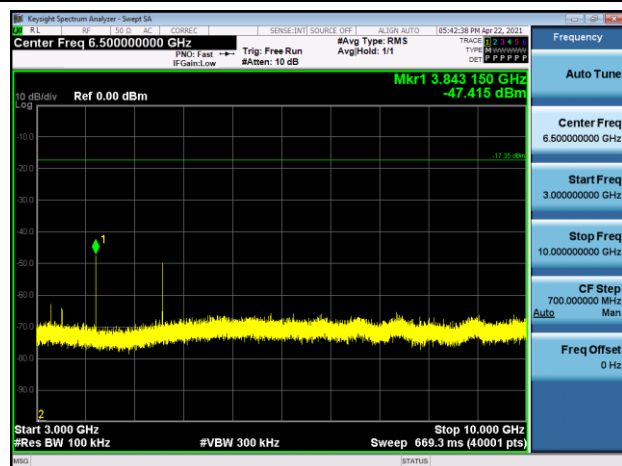
30 MHz – 1 GHz



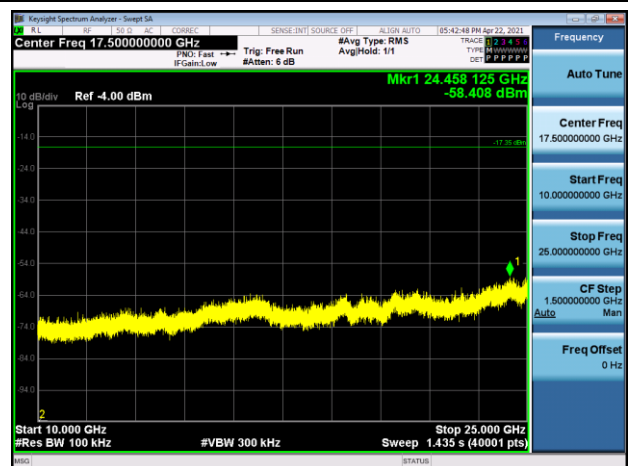
1 GHz – 3 GHz



3 MHz – 10 GHz



10 GHz – 25 GHz



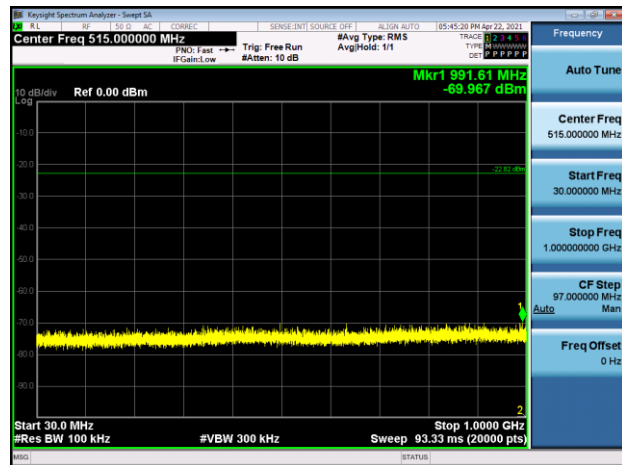
Note(s) :

The worst-case plots are included in this report.

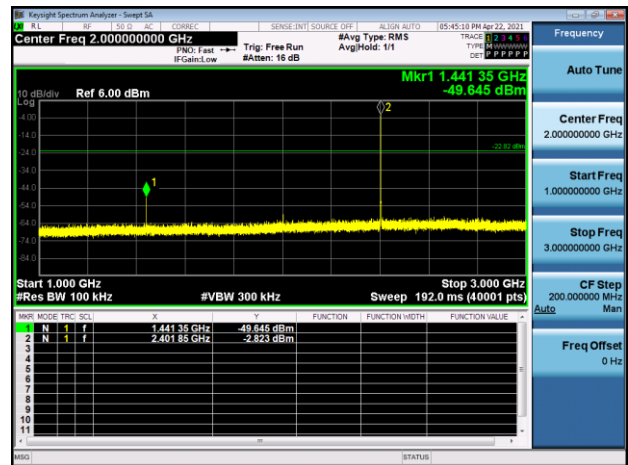
TEST PLOTS

EDR ($\pi/4$ -DQPSK) : Conducted Spurious Emission (CH0)

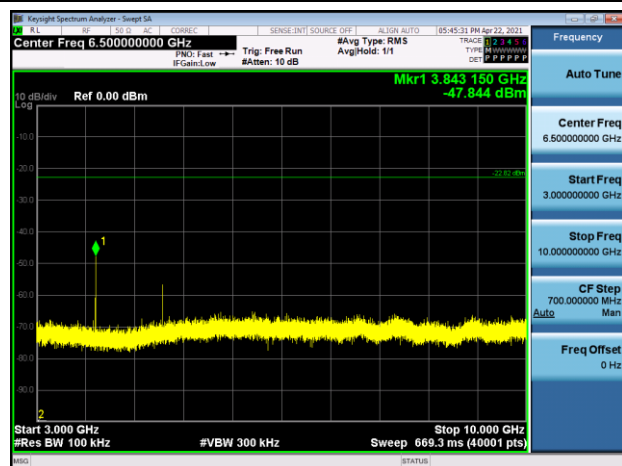
30 MHz – 1 GHz



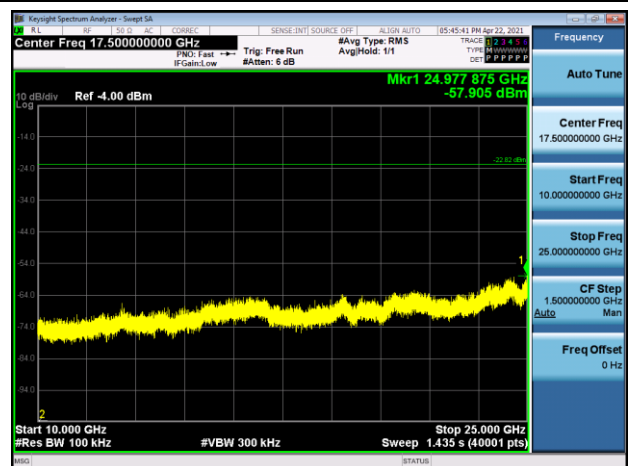
1 GHz – 3 GHz



3 MHz – 10 GHz



10 GHz – 25 GHz



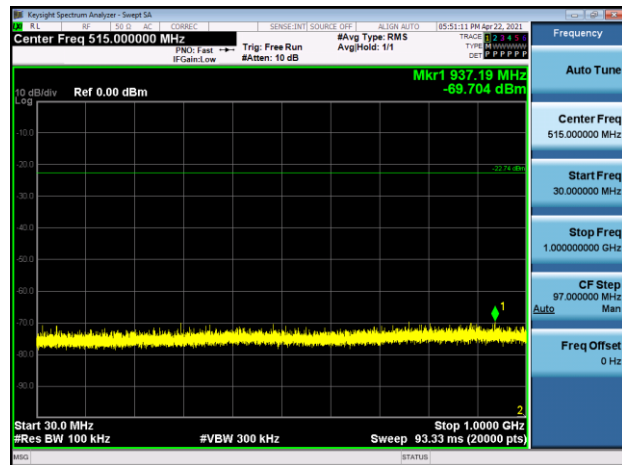
Note(s) :

The worst-case plots are included in this report.

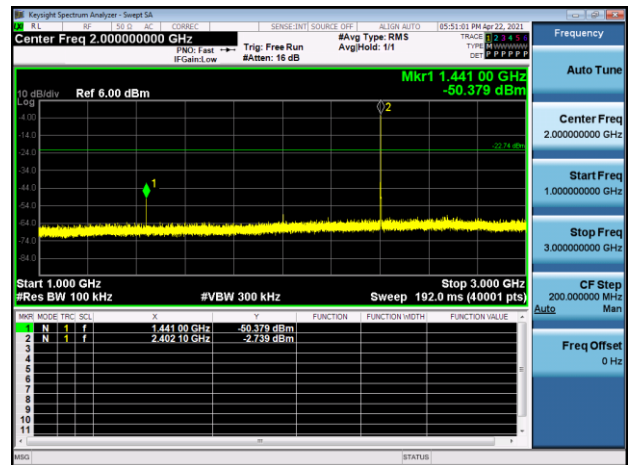
TEST PLOTS

EDR (8DPSK) : Conducted Spurious Emission (CH0)

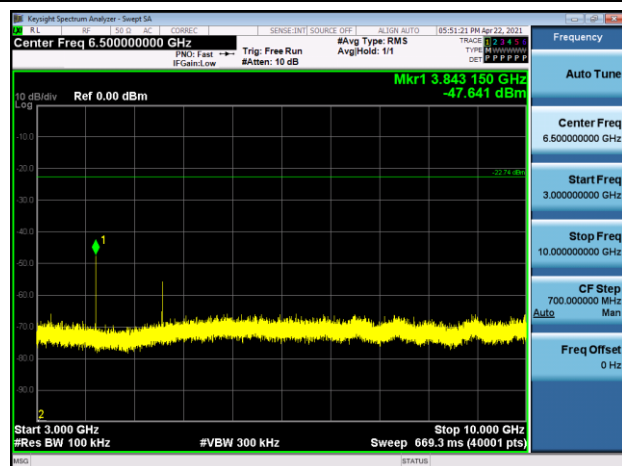
30 MHz – 1 GHz



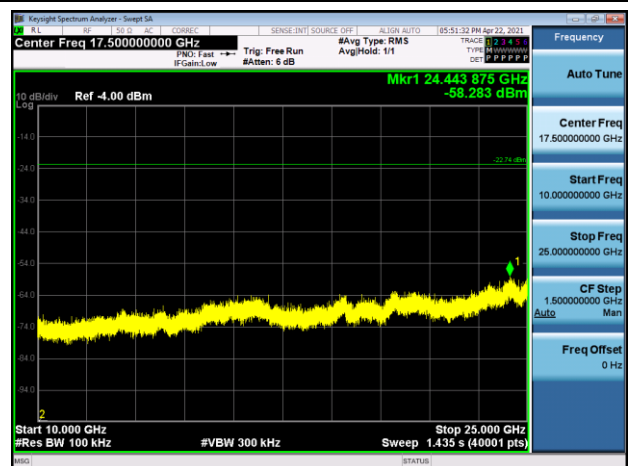
1 GHz – 3 GHz



3 MHz – 10 GHz



10 GHz – 25 GHz



Note(s) :

The worst-case plots are included in this report.

9.7. RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30 MHz

Test Mode BDR (GFSK) : TX mode
 Operating Frequency CH 0 : 2402 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No peak found							

Test Mode BDR (GFSK) : TX mode
 Operating Frequency CH 19 : 2441 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No peak found							

Test Mode BDR (GFSK) : TX mode
 Operating Frequency CH 78 : 2480 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No peak found							

Test Mode EDR (8DPSK) : TX mode
 Operating Frequency CH 0 : 2402 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No peak found							

Test Mode EDR (8DPSK) : TX mode
 Operating Frequency CH 19 : 2441 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No peak found							

Test Mode EDR (8DPSK) : TX mode
 Operating Frequency CH 78 : 2480 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No peak found							

Note(s) :

1. No major peak found within the frequency range. A representative plot is included in this report

Frequency Range : Below 1 GHz

Test Mode BDR (GFSK) : TX mode
 Operating Frequency CH 0 : 2402 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
76.705	V	28.5	-13.2	15.3	40.0	24.7	QP
196.364	V	29.8	-8.3	21.5	43.5	22.0	QP
466.363	H	30.8	-2.6	28.2	46.0	17.8	QP

Test Mode BDR (GFSK) : TX mode
 Operating Frequency CH 39 : 2441 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
76.709	V	28.3	-13.2	15.1	40.0	24.9	QP
196.401	V	28.3	-8.3	20.0	43.5	23.5	QP
466.322	H	30.5	-2.6	27.9	46.0	18.1	QP

Test Mode BDR (GFSK) : TX mode
 Operating Frequency CH 78 : 2480 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
76.844	V	28.4	-13.2	15.2	40.0	24.8	QP
196.355	V	29.9	-8.3	21.6	43.5	21.9	QP
466.352	H	30.7	-2.6	28.1	46.0	17.9	QP

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain

Test Mode EDR (8DPSK) : TX mode
 Operating Frequency CH 0 : 2402 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
76.735	V	27.7	-13.2	14.5	40.0	25.5	QP
196.401	V	28.3	-8.3	20.0	43.5	23.5	QP
466.354	H	29.7	-2.6	27.1	46.0	18.9	QP

Test Mode EDR (8DPSK) : TX mode
 Operating Frequency CH 39 : 2441 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
76.893	V	27.7	-13.2	14.5	40.0	25.5	QP
196.371	V	28.2	-8.3	19.9	43.5	23.6	QP
466.358	H	30.0	-2.6	27.4	46.0	18.6	QP

Test Mode EDR (8DPSK) : TX mode
 Operating Frequency CH 78 : 2480 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
76.894	V	27.6	-13.2	14.4	40.0	25.6	QP
196.365	V	28.3	-8.3	20.0	43.5	23.5	QP
466.362	H	29.9	-2.6	27.3	46.0	18.7	QP

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain

Frequency Range : Above 1 GHz

Test Mode BDR (GFSK) : TX mode
 Operating Frequency CH 0 : 2402 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
1441.120	H	55.6	-14.6	-24.8	16.2	41.0	54	74	37.8	33.0
1441.318	V	54.2	-14.6	-24.8	14.8	39.6	54	74	39.2	34.4
3843.167	V	48.6	-7.2	-24.8	16.6	41.4	54	74	37.4	32.6
3843.231	H	48.4	-7.2	-24.8	16.4	41.2	54	74	37.6	32.8
4803.762	H	47.5	-6.3	-24.8	16.4	41.2	54	74	37.6	32.8
4804.242	V	50.9	-6.3	-24.8	19.8	44.6	54	74	34.2	29.4

Test Mode BDR (GFSK) : TX mode
 Operating Frequency CH 39 : 2441 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
1464.720	V	53.7	-14.4	-24.8	14.5	39.3	54	74	39.5	34.7
1464.568	H	55.4	-14.4	-24.8	16.2	41.0	54	74	37.8	33.0
3905.533	H	47.9	-7.0	-24.8	16.1	40.9	54	74	37.9	33.1
3905.564	V	48.1	-7.0	-24.8	16.3	41.1	54	74	37.7	32.9
4881.952	H	49.2	-6.1	-24.8	18.3	43.1	54	74	35.7	30.9
4881.985	V	51.8	-6.1	-24.8	20.9	45.7	54	74	33.1	28.3

Test Mode BDR (GFSK) : TX mode
 Operating Frequency CH 78 : 2480 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
1488.053	H	55.6	-14.4	-24.8	16.4	41.2	54	74	37.6	32.8
1488.160	V	53.0	-14.4	-24.8	13.8	38.6	54	74	40.2	35.4
3968.081	V	48.3	-7.0	-24.8	16.5	41.3	54	74	37.5	32.7
4959.641	H	49.4	-5.9	-24.8	18.7	43.5	54	74	35.3	30.5
4960.375	V	51.8	-5.9	-24.8	21.1	45.9	54	74	32.9	28.1

Note(s) :

1. Correction Factor = Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Correction Factor(dB).
 The worst-case duty cycle correction factor for 1-DH5 = $20 \log (2 \times 2.878 \text{ ms} / 100 \text{ ms}) = -24.8 \text{ dB}$.

Test Mode EDR (8DPSK) : TX mode
 Operating Frequency CH 0 : 2402 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
1441.110	H	54.5	-14.6	-24.8	15.1	39.9	54	74	38.9	34.1
1441.150	V	53.1	-14.6	-24.8	13.7	38.5	54	74	40.3	35.5
3843.112	V	48.0	-7.2	-24.8	16.0	40.8	54	74	38.0	33.2
3843.142	H	47.7	-7.2	-24.8	15.7	40.5	54	74	38.3	33.5
4803.471	H	43.6	-6.3	-24.8	12.5	37.3	54	74	41.5	36.7
4803.746	V	46.5	-6.3	-24.8	15.4	40.2	54	74	38.6	33.8

Test Mode EDR (8DPSK) : TX mode
 Operating Frequency CH 39 : 2441 MHz

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
1464.430	V	53.1	-14.4	-24.8	13.9	38.7	54	74	40.1	35.3
1464.830	H	54.7	-14.4	-24.8	15.5	40.3	54	74	38.5	33.7
3905.659	H	46.6	-7.0	-24.8	14.8	39.6	54	74	39.2	34.4
3905.693	V	47.3	-7.0	-24.8	15.5	40.3	54	74	38.5	33.7
4882.375	V	47.3	-6.0	-24.8	16.5	41.3	54	74	37.5	32.7
4882.392	H	45.2	-6.0	-24.8	14.4	39.2	54	74	39.6	34.8

Test Mode EDR (8DPSK) : TX mode
 Operating Frequency CH 78 : 2480 MHz

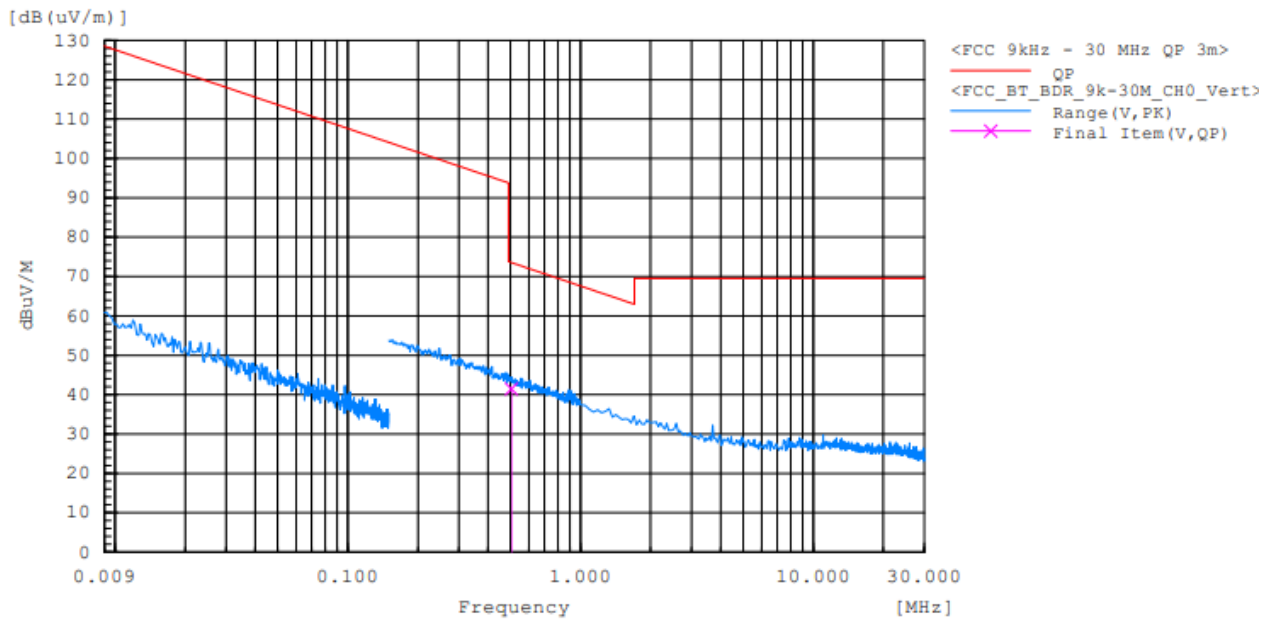
Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
1487.987	H	54.2	-14.4	-24.8	15.0	39.8	54	74	39.0	34.2
1488.037	V	52.7	-14.4	-24.8	13.5	38.3	54	74	40.5	35.7
3967.886	H	47.2	-7.0	-24.8	15.4	40.2	54	74	38.6	33.8
3967.946	V	47.6	-7.0	-24.8	15.8	40.6	54	74	38.2	33.4
4959.945	H	45.7	-5.9	-24.8	15.0	39.8	54	74	39.0	34.2
4960.072	V	47.6	-5.9	-24.8	16.9	41.7	54	74	37.1	32.3

Note(s) :

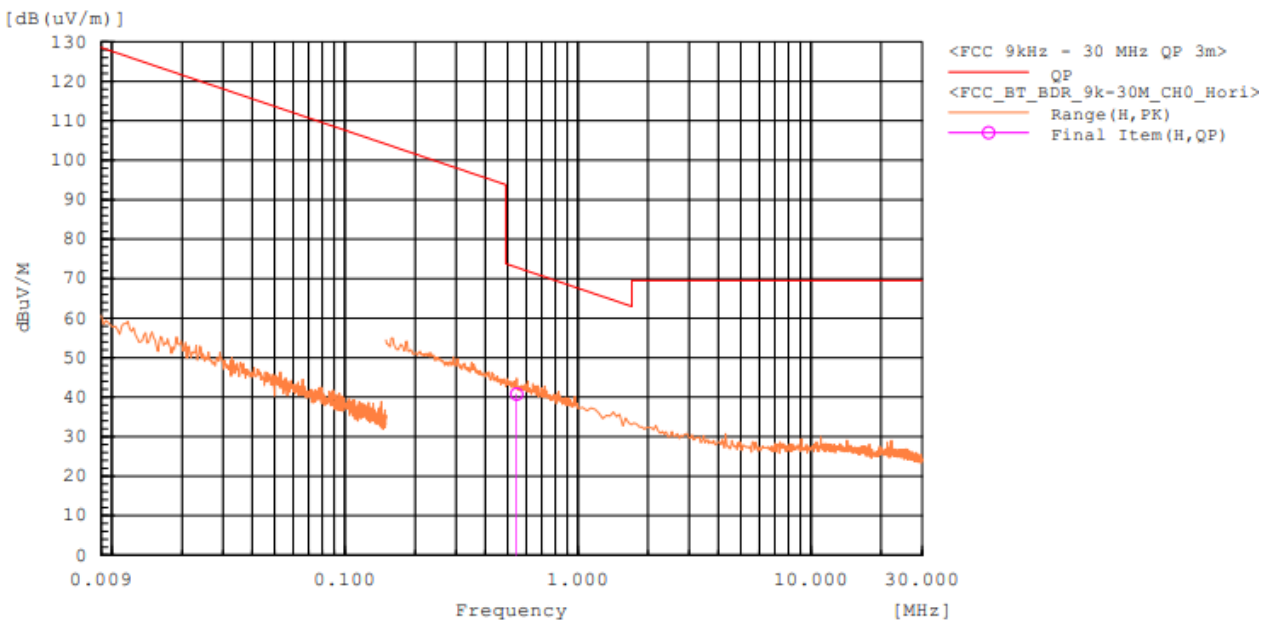
1. Correction Factor = Antenna Factor + Cable loss + Preamplifier Gain
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Correction Factor(dB).
 The worst-case duty cycle correction factor for 3-DH5 = $20 \log (2 \times 2.890 \text{ ms} / 100 \text{ ms}) = -24.8 \text{ dB}$.

■ TEST PLOTS

Radiated Spurious Emission 9 kHz – 30 MHz (Antenna Position 90°)



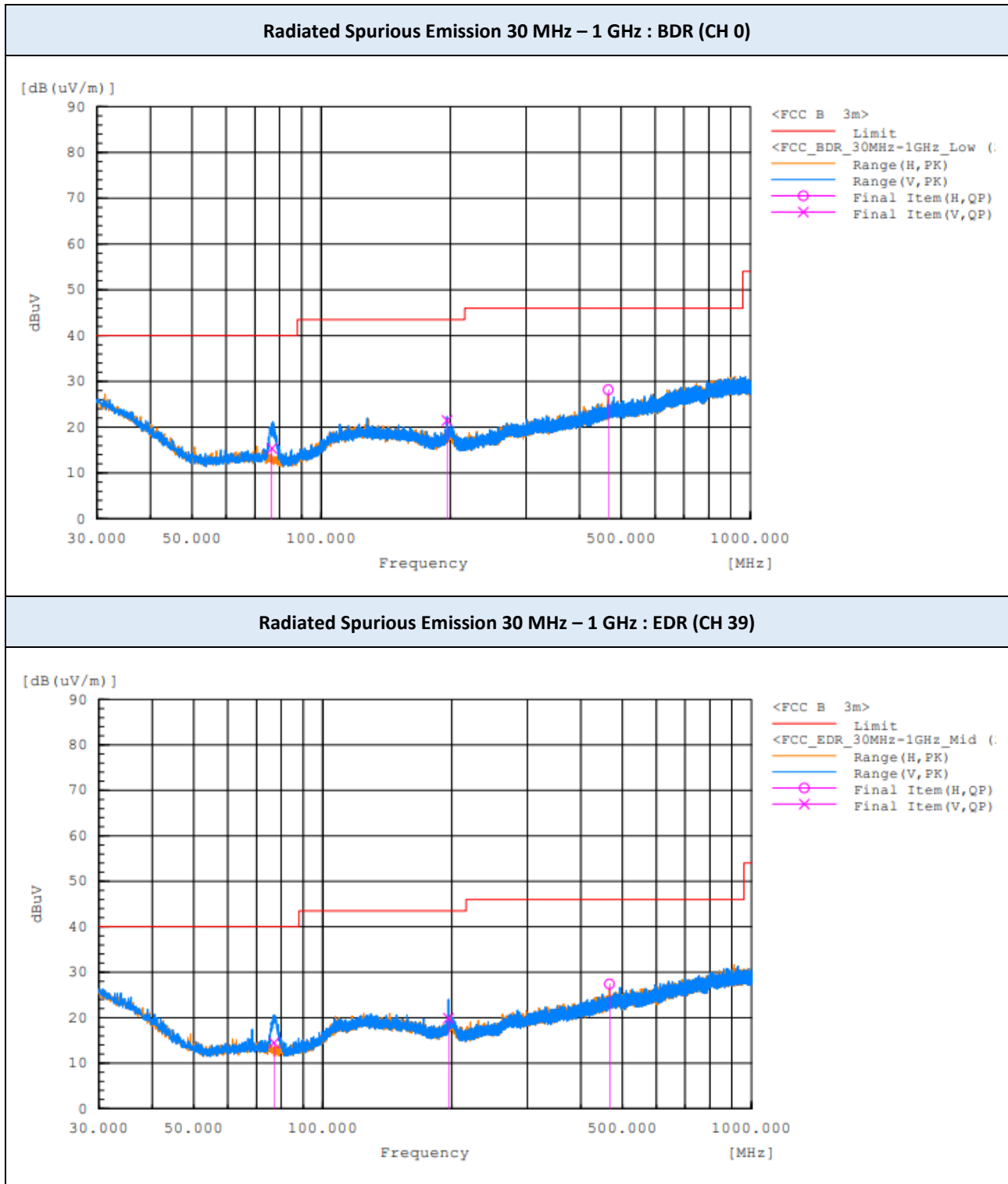
Radiated Spurious Emission 9 kHz – 30 MHz (Antenna Position 180°)



Note(s) :

The worst-case plots are included in this report.

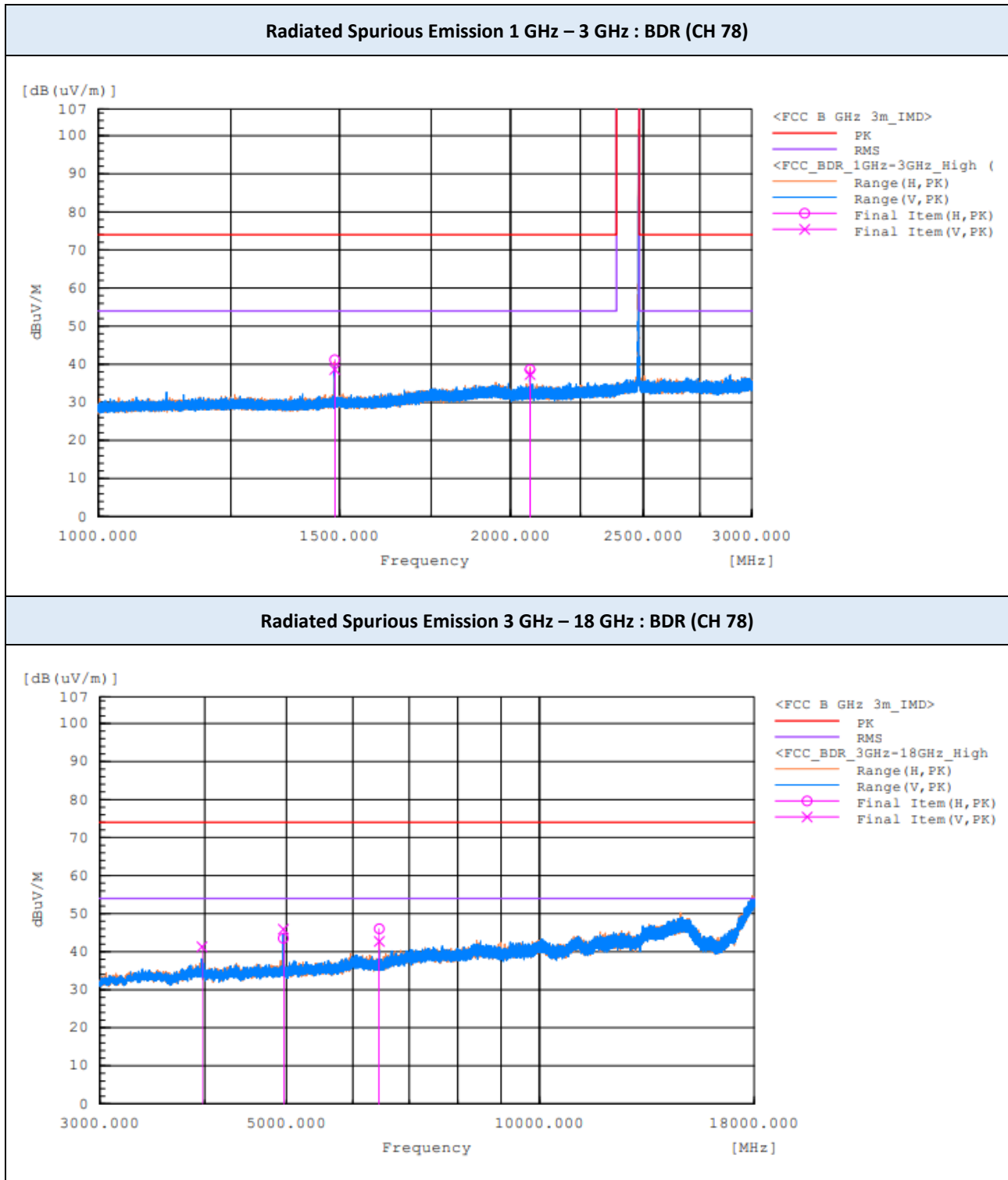
■ TEST PLOTS



Note(s) :

The worst-case plots are included in this report.

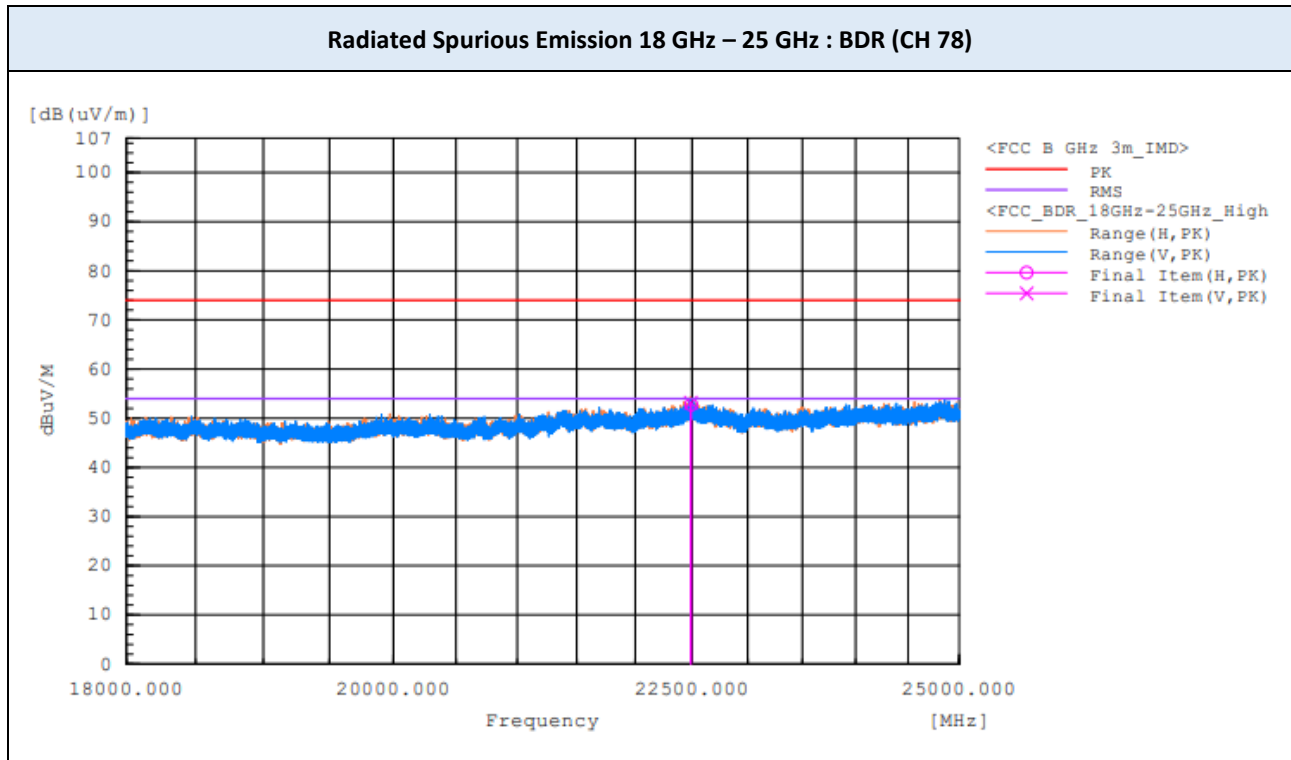
■ TEST PLOTS



Note(s) :

The worst-case plots are included in this report.

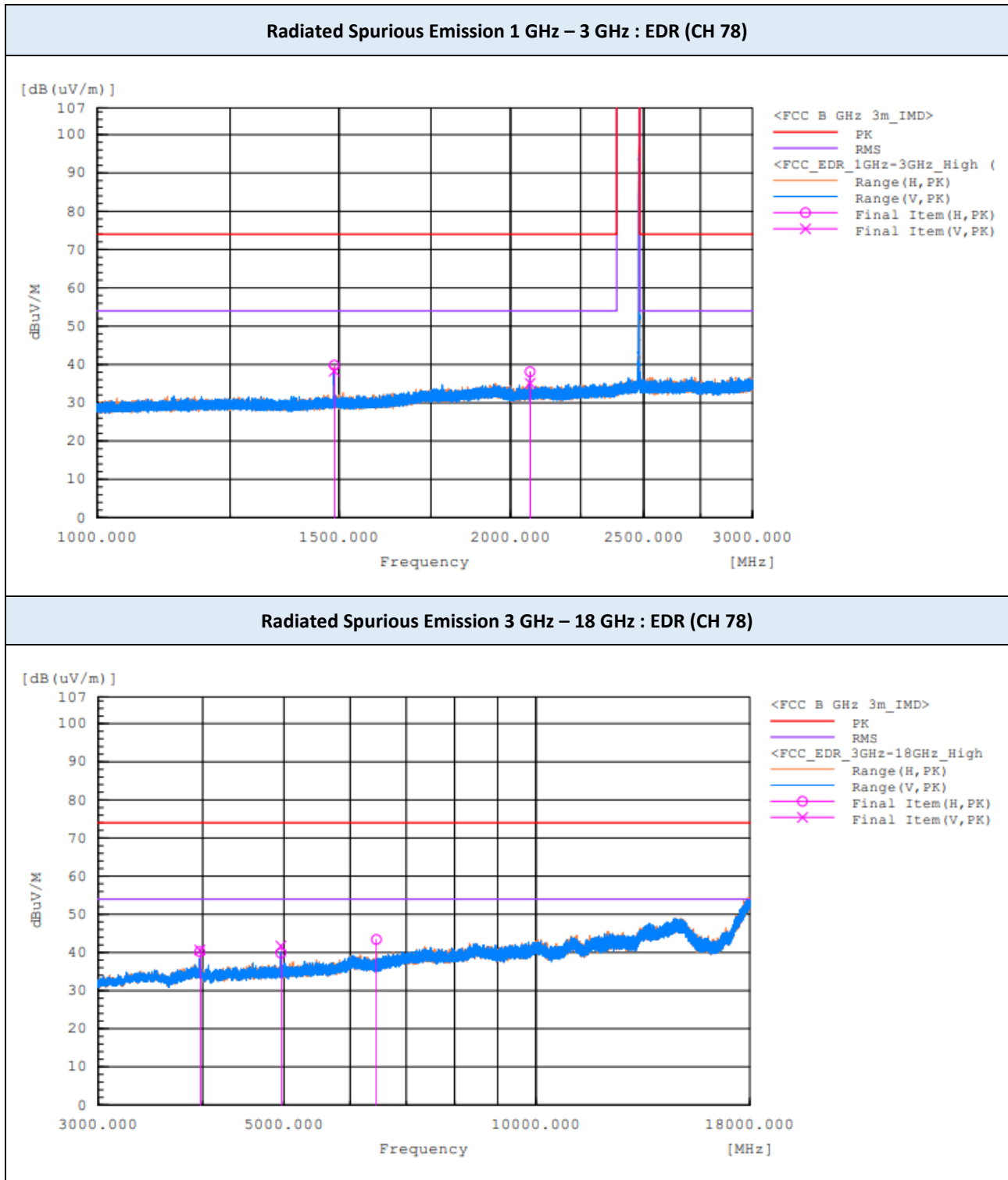
■ TEST PLOTS



Note(s) :

The worst-case plots are included in this report.

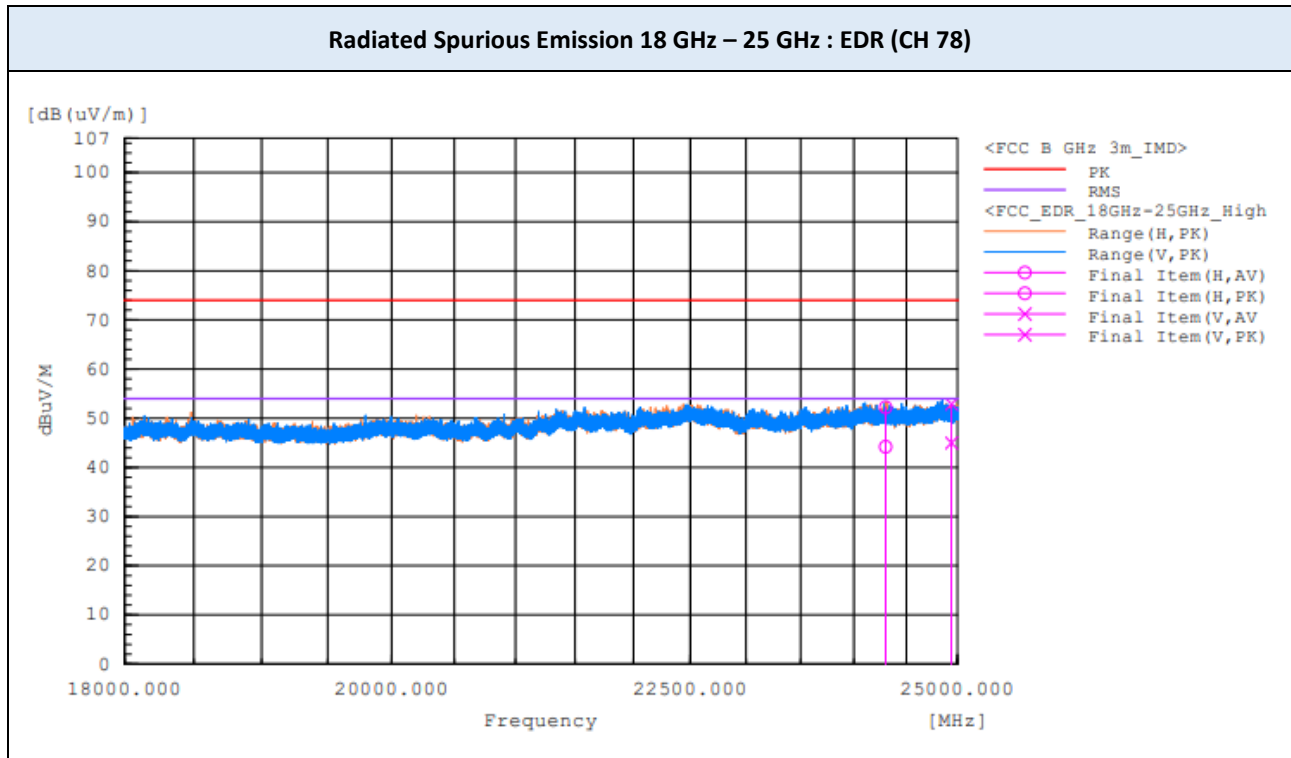
■ TEST PLOTS



Note(s) :

The worst-case plots are included in this report.

■ TEST PLOTS



Note(s) :

The worst-case plots are included in this report.

9.8. RADIATED RESTRICTED BAND EDGES

Test Mode BDR (GFSK) : TX mode
 Operating Frequency 2402 MHz
 Channel No. CH 0

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
2378.070	H	47.1	-11.5	-24.8	10.8	35.6	54	74	43.2	38.4
2378.120	V	46.3	-11.5	-24.8	10.0	34.8	54	74	44.0	39.2

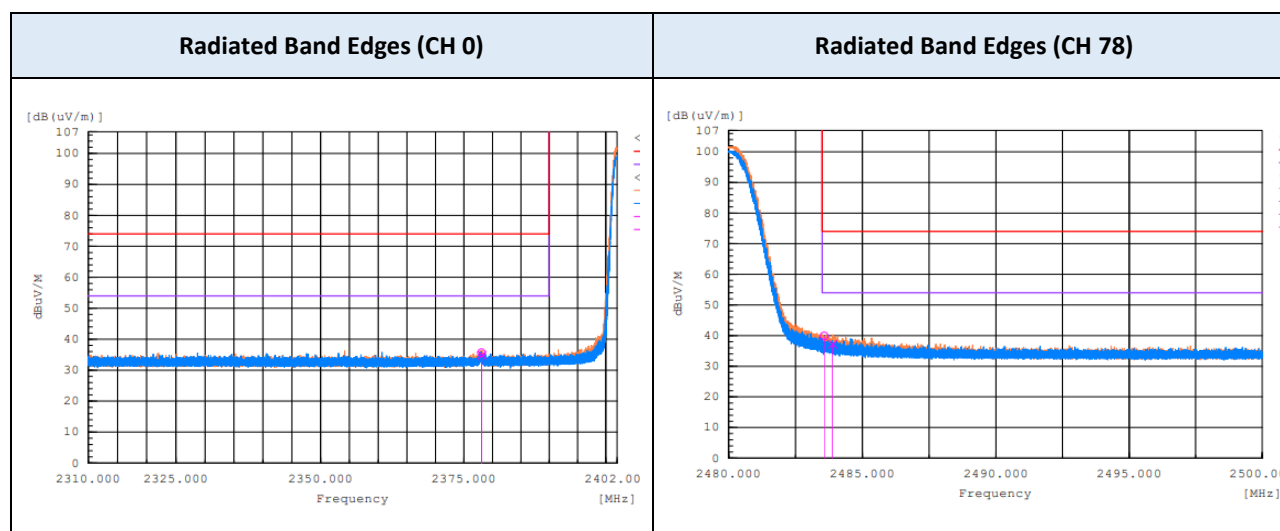
Test Mode BDR (GFSK) : TX mode
 Operating Frequency 2480 MHz
 Channel No. CH 78

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
2483.569	H	50.7	-10.8	-24.8	15.1	39.9	54	74	38.9	34.1
2483.886	V	48.0	-10.8	-24.8	12.4	37.2	54	74	41.6	36.8

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Correction Factor(dB).
 The worst-case duty cycle correction factor for 1-DH5 = $20 \log (2 \times 2.890 \text{ ms} / 100 \text{ ms}) = -24.8 \text{ dB}$.

TEST PLOTS



Test Mode	EDR (8DPSK) : TX mode
Operating Frequency	2402 MHz
Channel No.	CH 0

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
2354.827	H	47.7	-11.7	-24.8	11.2	36.0	54	74	42.8	38.0
2379.242	V	46.5	-11.5	-24.8	10.2	35.0	54	74	43.8	39.0

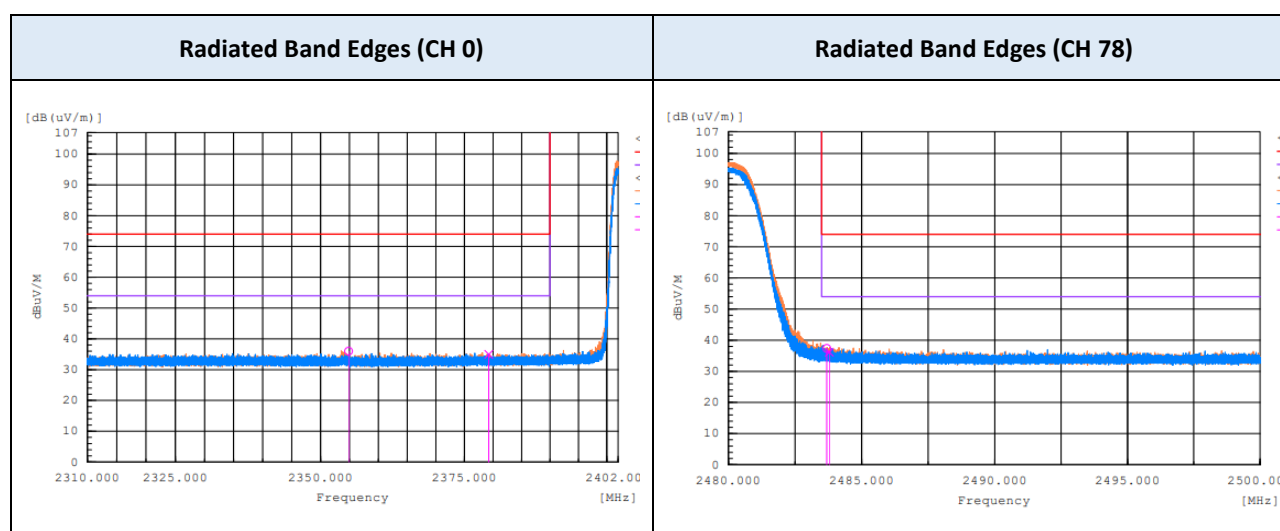
Test Mode	EDR (8DPSK) : TX mode
Operating Frequency	2480 MHz
Channel No.	CH 78

Frequency (MHz)	Polarization	Reading (dBuV)	Factor (dB)		Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		PK	Corr. ¹⁾	Duty	AV	PK	AV	PK	AV	PK
2483.687	H	48.2	-10.8	-24.8	12.6	37.4	54	74	41.4	36.6
2483.782	V	47.0	-10.8	-24.8	11.4	36.2	54	74	42.6	37.8

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss
2. AV Level = Measured Power(dBm) + Correction Factor(dB) + Duty Cycle Correction Factor(dB).
The worst-case duty cycle correction factor for 3-DH5 = $20 \log (2 \times 2.890 \text{ ms} / 100 \text{ ms}) = -24.8 \text{ dB}$.

TEST PLOTS



9.9. RECEIVER SPURIOUS EMISSION

Test Mode	BDR (GFSK)
Operating Frequency	2480 MHz
Channel No.	CH 78

Frequency Range : Below 1 GHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
77.008	V	27.9	-13.2	14.7	40.0	25.3	QP
196.365	V	29.2	-8.3	20.9	43.5	22.6	QP
466.355	H	30.7	-2.6	28.1	46.0	17.9	QP

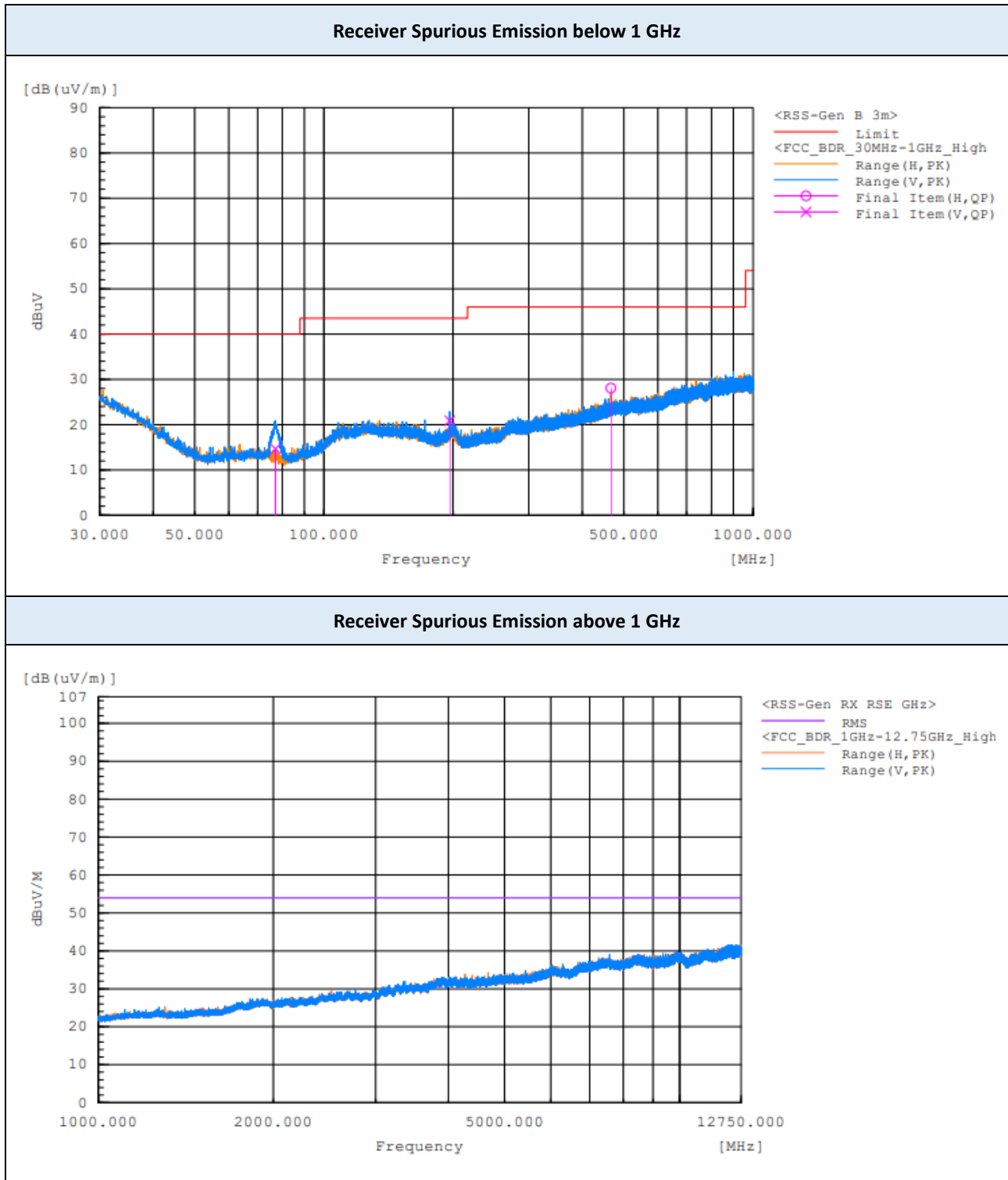
Frequency Range : Above 1 GHz

frequency (MHz)	Polarization	Reading (dBuV)	Corr. ¹⁾ (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
No peak found ²⁾							

Note(s) :

1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain
2. No major peak found within the frequency range.

■ TEST PLOTS



Note(s) :

The worst-case plots are included in this report.

10. LIST OF TEST EQUIPMENT

No.	Instrument	Model No.	Calibration Due (mm/dd/yy)	Manufacture	Serial No.
☒	Signal Analyzer (20 Hz ~ 40.0 GHz)	ESU40	12/09/2021	Rohde & Schwarz	100529
☒	Signal Analyzer (10 Hz ~ 40.0 GHz)	FSV40	02/03/2022	Rohde & Schwarz	101424
☒	Signal Analyzer (10 Hz ~ 26.5 GHz)	N9020A	11/07/2021	Keysight	MY52091291
☐	Attenuator (20 dB, DC ~ 26.5 GHz)	8493C	12/07/2021	HP	09072
☒	Attenuator (10 dB, DC ~ 26.5 GHz)	CFAD261002	01/07/2022	CERNEX	H0044
☒	Loop Antenna (0.009 ~ 30 MHz)	AL-130R	04/16/2023	Com-Power	121082
☒	BI-LOG Antenna (30 MHz ~ 6 GHz)	JB6	10/26/2022	Sunol	A071116
☒	LNA (30 MHz ~ 1GHz)	8447D	08/06/2021	HP	2443A03587
☒	Horn Antenna (1 GHz ~ 18 GHz)	DRH-118	10/21/2022	Sunol	A070516
☒	LNA (1 GHz ~ 18 GHz)	PAM-118A	07/09/2021	Com-Power	18040074
☒	Horn Antenna (18 GHz ~ 40 GHz)	DRH-1840	02/16/2022	Sunol	17121
☒	LNA (18 GHz ~ 40 GHz)	CBL184050-45-01	02/04/2022	CERNEX, Inc.	27973
☐	Power Divider-2way (DC ~ 26.5 GHz)	11636B	12/11/2021	HP	50820
☐	Directional Coupler (1-4GHz)	3022	12/15/2021	Narda	72118
☒	High Pass Filter	WHK10-2520-3000-18000-40EF	01/06/2022	Wainwright	9
☐	EMI Test Receiver	ESR3	12/17/2021	Rohde & Schwarz	102363
☐	LISN	ENV216	01/16/2022	Rohde & Schwarz	101349
☒	DC Power Supply	PAB 18-1A	01/07/2022	Kikusui	1350582

Note(s) :

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date

APPENDIX A. TEST SETUP PHOTOS

The setup photos are provided as a separate document.

APPENDIX B. PHOTOGRAPHS OF EUT

B.1. EXTERNAL PHOTOS

The external photos are provided as a separate document.

B.2. INTERNAL PHOTOS

The internal photos are provided as a separate document.

END OF TEST REPORT