

Operation Mode: TX CH High (2480MHz)
Horizontal (Worst case-GFSK)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	56.73	-5.81	50.92	74.00	-23.08	peak
2483.50	/	-5.81	/	54.00	/	AVG
2500.00	56.54	-6.06	50.48	74.00	-23.52	peak
2500.00	/	-6.06	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.31	-5.81	49.50	74.00	-24.50	peak
2483.50	/	-5.81	/	54.00	/	AVG
2500.00	53.70	-6.06	47.64	74.00	-26.36	peak
2500.00	/	-6.06	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Right ear:
Above 1 GHz Test Results:

CH Low (2402MHz)
Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804	58.80	-3.65	55.15	74.00	-18.85	peak
4804	48.09	-3.65	44.44	54.00	-9.56	AVG
7206	59.94	-0.95	58.99	74.00	-15.01	peak
7206	42.75	-0.95	41.80	54.00	-12.20	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804	56.97	-3.65	53.32	74.00	-20.68	peak
4804	48.88	-3.65	45.23	54.00	-8.77	AVG
7206	59.48	-0.95	58.53	74.00	-15.47	peak
7206	40.70	-0.95	39.75	54.00	-14.25	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

CH Middle (2441MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.00	58.38	-3.54	54.84	74.00	-19.16	peak
4882.00	46.88	-3.54	43.34	54.00	-10.66	AVG
7323.00	55.43	-0.81	54.62	74.00	-19.38	peak
7323.00	43.54	-0.81	42.73	54.00	-11.27	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.00	57.92	-3.54	54.38	74.00	-19.62	peak
4882.00	49.27	-3.54	45.73	54.00	-8.27	AVG
7323.00	57.11	-0.81	56.30	74.00	-17.70	peak
7323.00	42.32	-0.81	41.51	54.00	-12.49	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

CH High (2480MHz)
Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	57.53	-3.43	54.10	74.00	-19.90	peak
4960	48.51	-3.44	45.07	54.00	-8.93	AVG
7440	58.58	-0.77	57.81	74.00	-16.19	peak
7440	40.50	-0.77	39.73	54.00	-14.27	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	58.80	-3.43	55.37	74.00	-18.63	peak
4960	49.30	-3.44	45.86	54.00	-8.14	AVG
7440	60.17	-0.77	59.40	74.00	-14.60	peak
7440	40.95	-0.77	40.18	54.00	-13.82	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits

The test range is 9K ~10 times the main wave, and other spurious below the limit of 20dB will not be reflected in the report

Restricted bands around fundamental frequency (Radiated)

hopping

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case-GFSK)

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.00	56.84	-5.81	51.03	74.00	-22.97	peak
2310.00	/	-5.81	/	54.00	/	AVG
2390.00	56.57	-5.84	50.73	74.00	-23.27	peak
2390.00	/	-5.84	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.00	56.17	-5.81	50.36	74.00	-23.64	peak
2310.00	/	-5.81	/	54.00	/	AVG
2390.00	55.16	-5.84	49.32	74.00	-24.68	peak
2390.00	/	-5.84	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

When the peak value is smaller than the AVG limit, AVG is not reflected.

Operation Mode: TX CH High (2480MHz)
Horizontal (Worst case-GFSK)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.18	-5.81	49.37	74.00	-24.63	peak
2483.50	/	-5.81	/	54.00	/	AVG
2500.00	54.32	-6.06	48.26	74.00	-25.74	peak
2500.00	/	-6.06	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	56.60	-5.81	50.79	74.00	-23.21	peak
2483.50	/	-5.81	/	54.00	/	AVG
2500.00	53.83	-6.06	47.77	74.00	-26.23	peak
2500.00	/	-6.06	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

When the peak value is smaller than the AVG limit, AVG is not reflected.

NO hopping

Operation Mode: TX CH Low (2402MHz)
Horizontal (Worst case-GFSK)

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.00	55.26	-5.81	49.45	74.00	-24.55	peak
2310.00	/	-5.81	/	54.00	/	AVG
2390.00	54.10	-5.84	48.26	74.00	-25.74	peak
2390.00	/	-5.84	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.00	55.38	-5.81	49.57	74.00	-24.43	peak
2310.00	/	-5.81	/	54.00	/	AVG
2390.00	54.45	-5.84	48.61	74.00	-25.39	peak
2390.00	/	-5.84	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

When the peak value is smaller than the AVG limit, AVG is not reflected.

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	56.43	-5.81	50.62	74.00	-23.38	peak
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2500.00	54.27	-6.06	48.21	74.00	-25.79	peak
2500.00	/	-6.06	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						

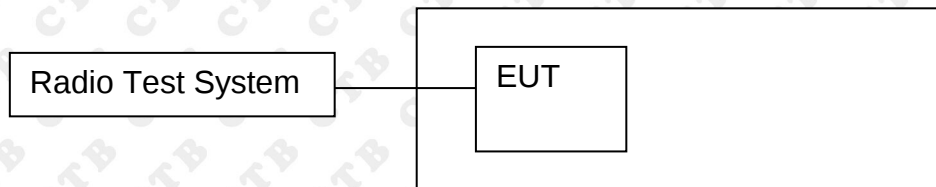
Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	56.70	-5.81	50.89	74.00	-23.11	peak
2483.50	/	-5.81	/	54.00	/	AVG
2500.00	54.74	-6.06	48.68	74.00	-25.32	peak
2500.00	/	-6.06	/	54.00	/	AVG
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. Emission level = Reading Result + Factor, Margin = Emission level - Limits						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

When the peak value is smaller than the AVG limit, AVG is not reflected.

8. BAND EDGE AND RF CONDUCTED SPURIOUS EMISSIONS

8.1 Block Diagram Of Test Setup



8.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

8.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:

Below 30MHz:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

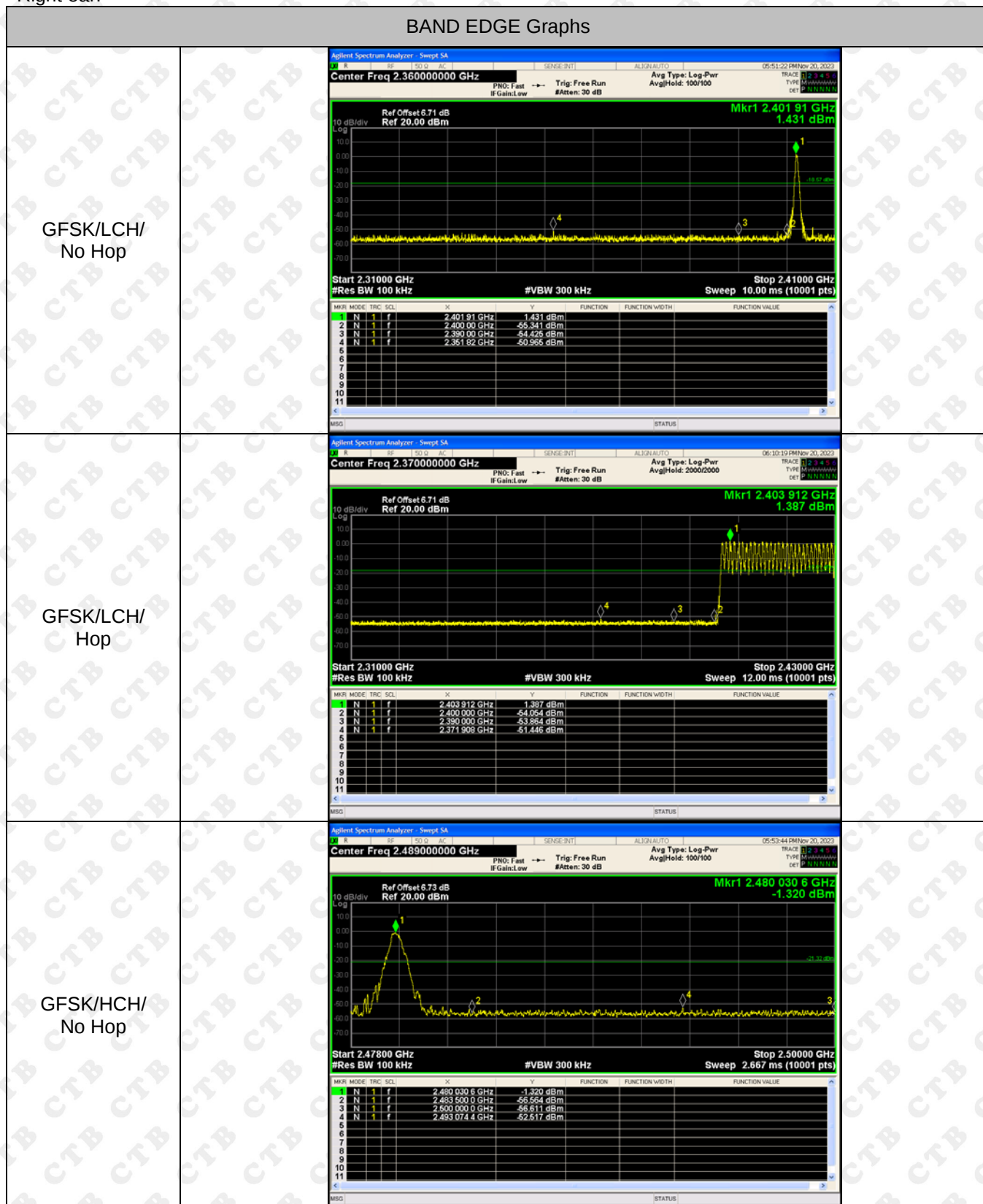
Above 30MHz:

RBW = 100KHz, VBW = 300KHz, Sweep = auto

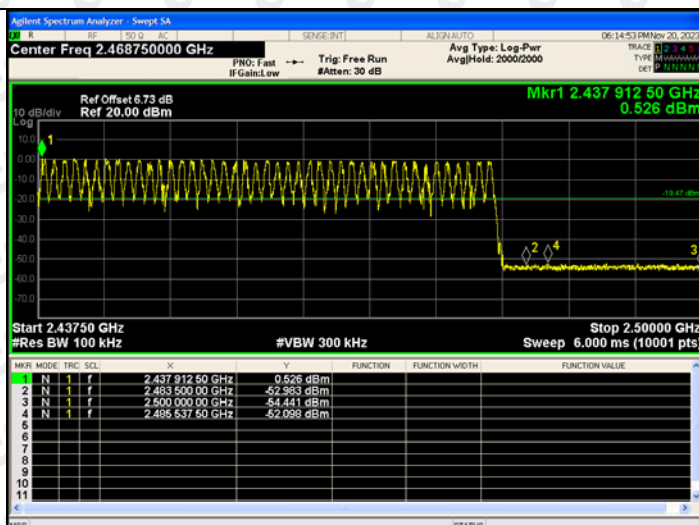
Detector function = peak, Trace = max hold

8.4 Test Result

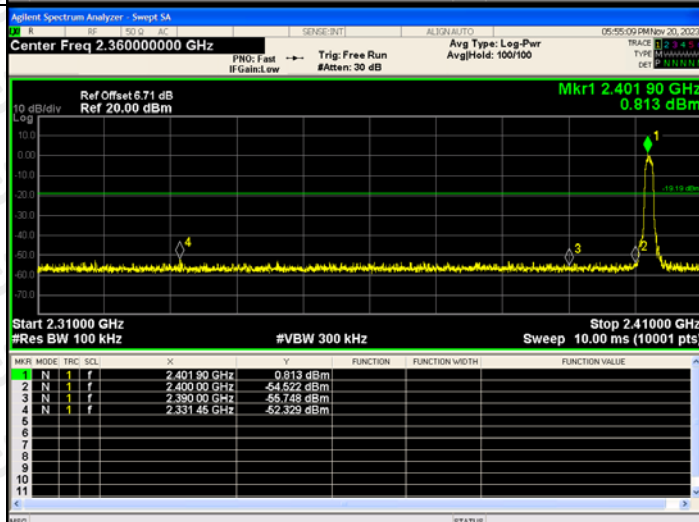
Right ear:



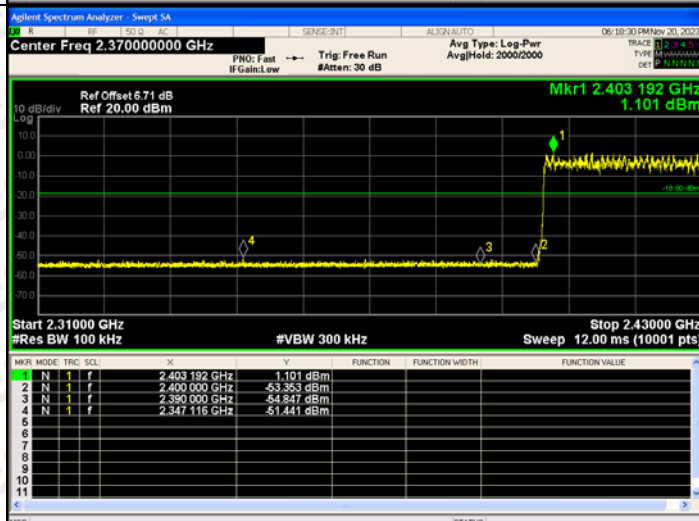
GFSK/HCH/
Hop

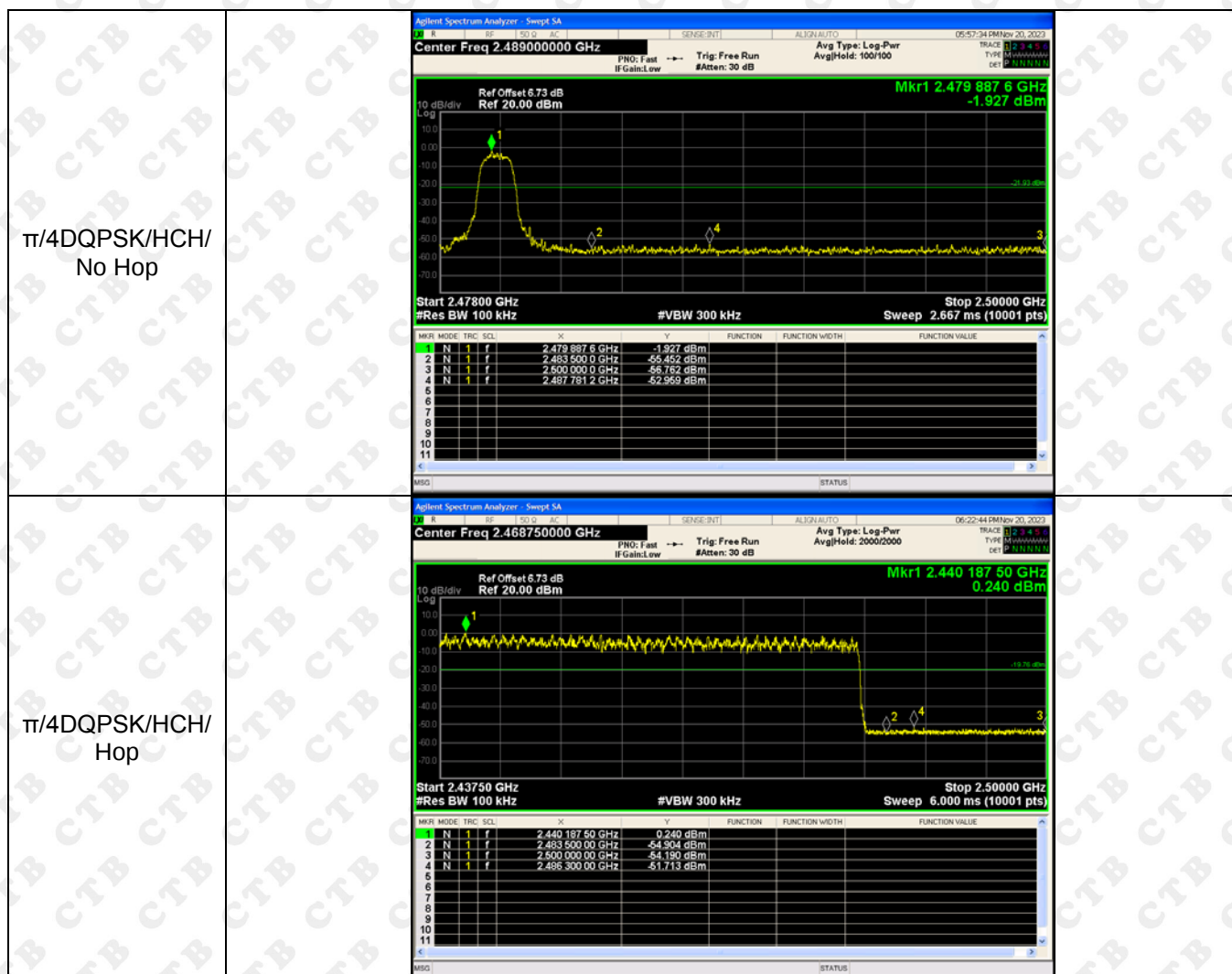


$\pi/4$ DQPSK/LCH/
No Hop



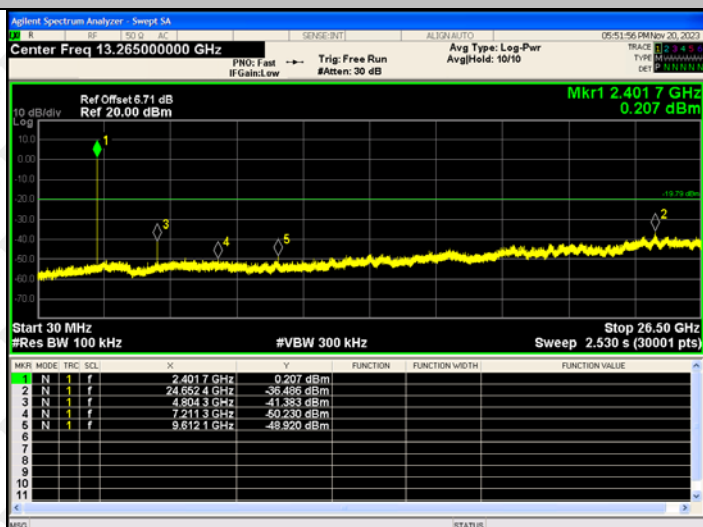
$\pi/4$ DQPSK/LCH/
Hop



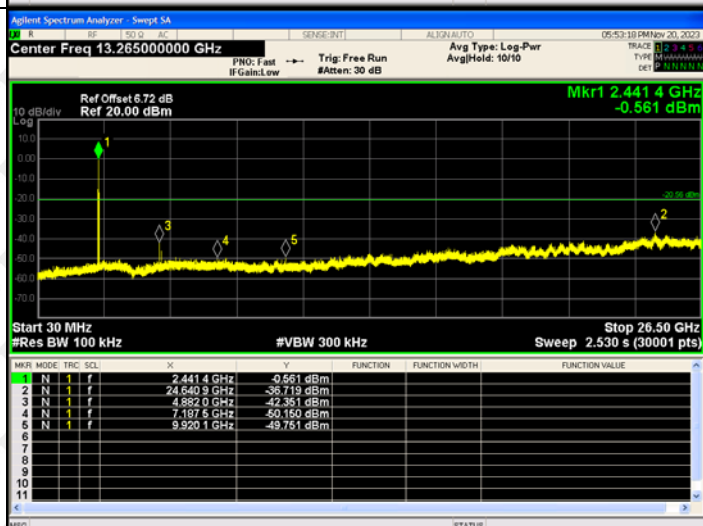


RF Conducted Spurious Emissions Graphs

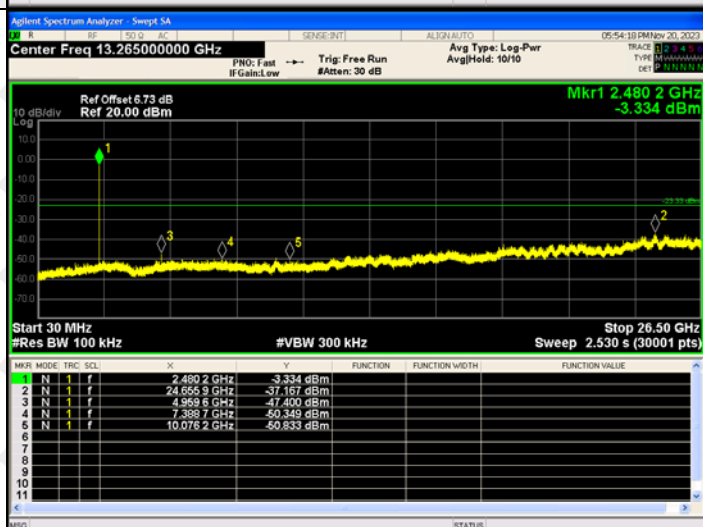
GFSK/LCH

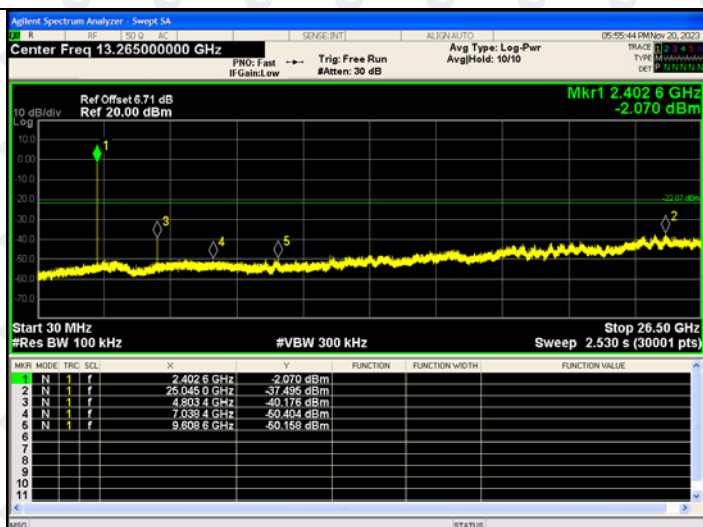
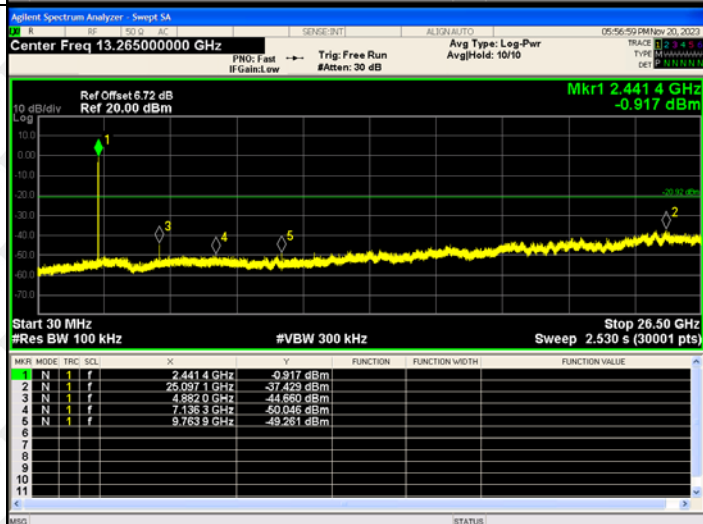
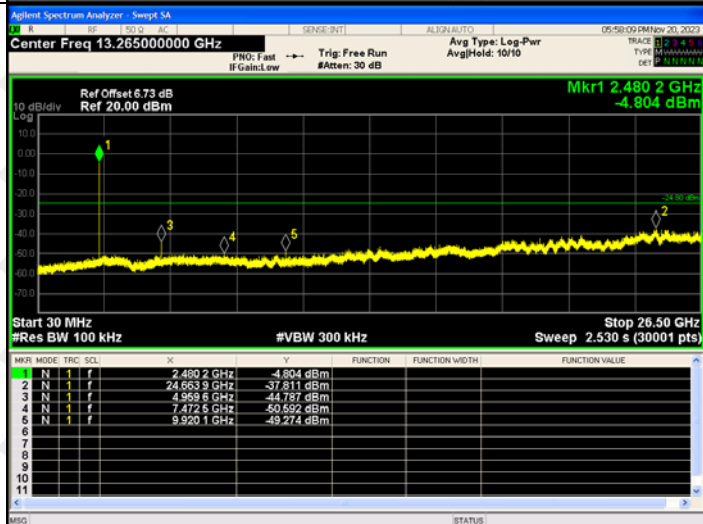


GFSK/MCH



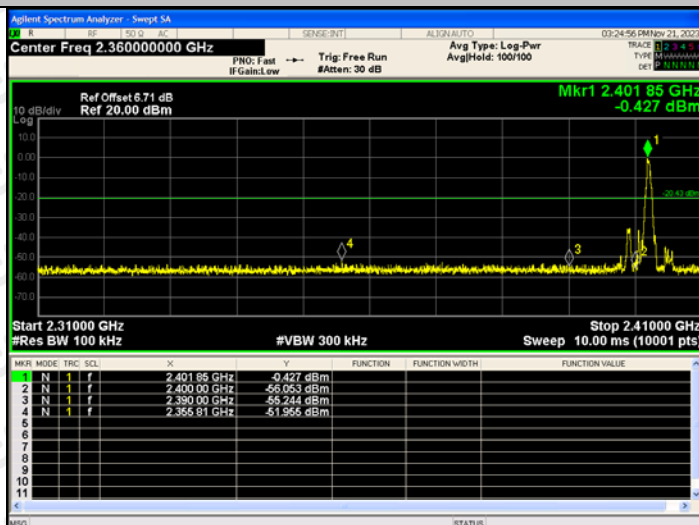
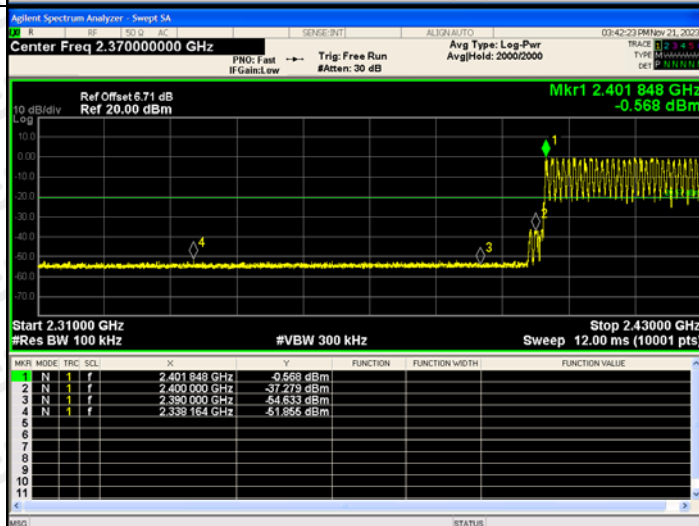
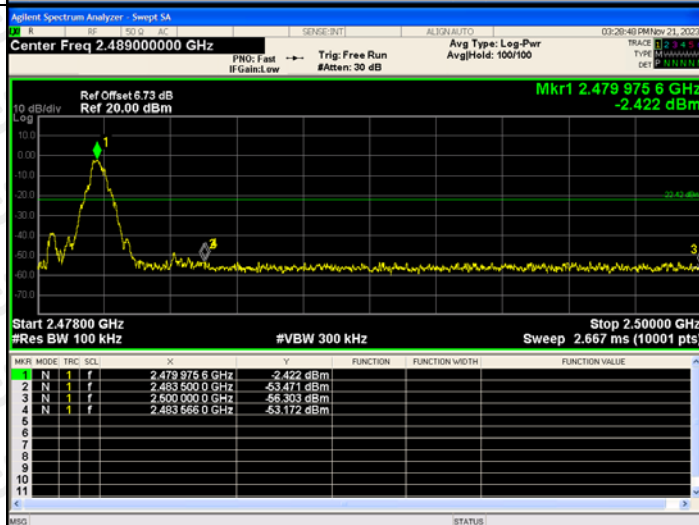
GFSK/HCH



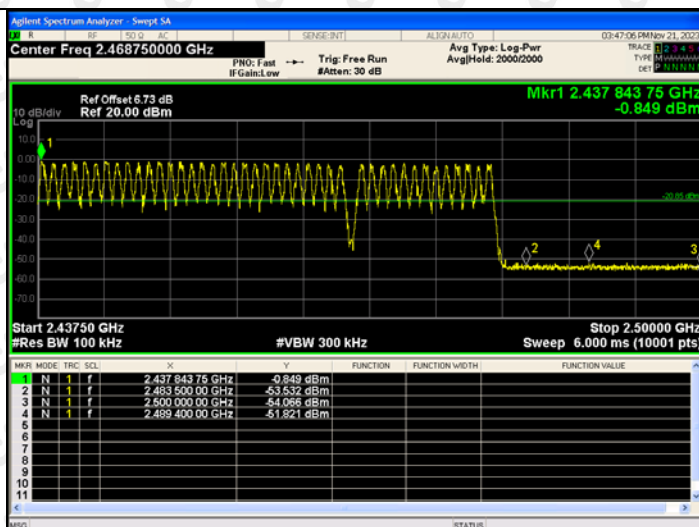
$\pi/4$ DQPSK /LCH

 $\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


Left ear:

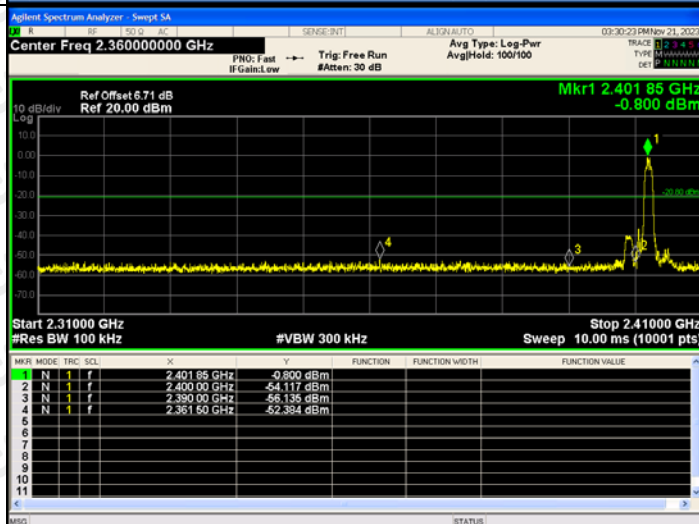
BAND EDGE Graphs

GFSK/LCH/
No Hop

GFSK/LCH/
Hop

GFSK/HCH/
No Hop


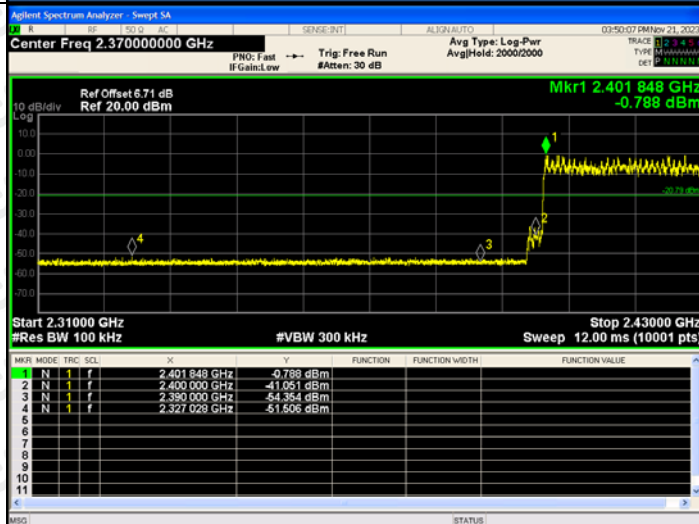
GFSK/HCH/
Hop

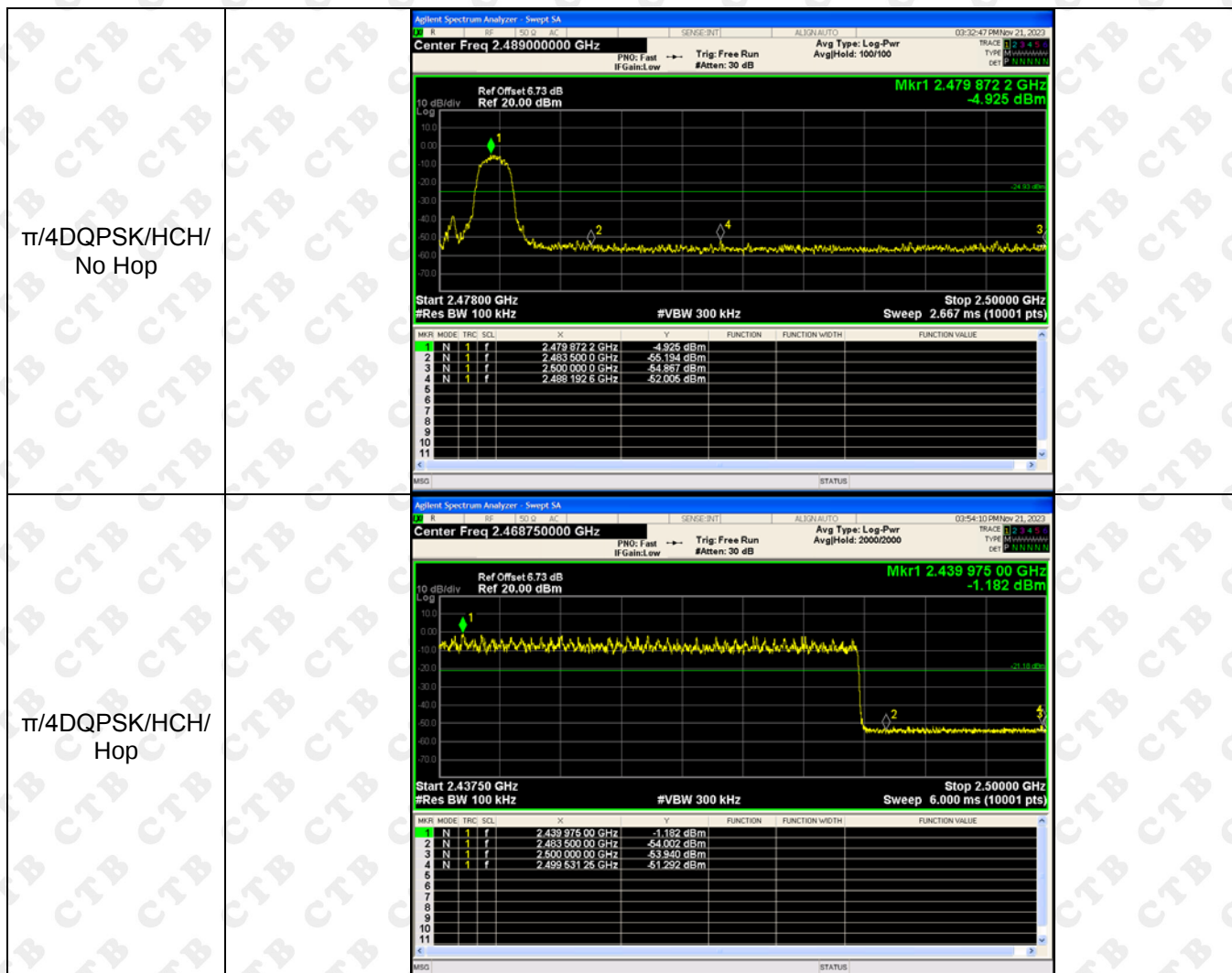


$\pi/4$ DQPSK/LCH/
No Hop



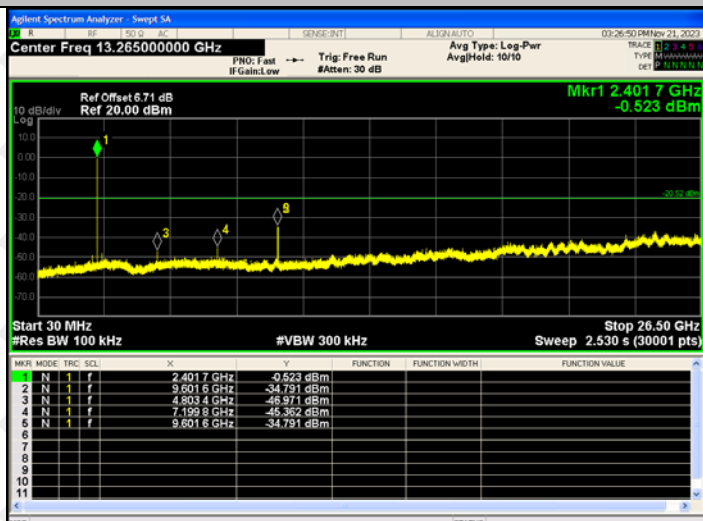
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Hop



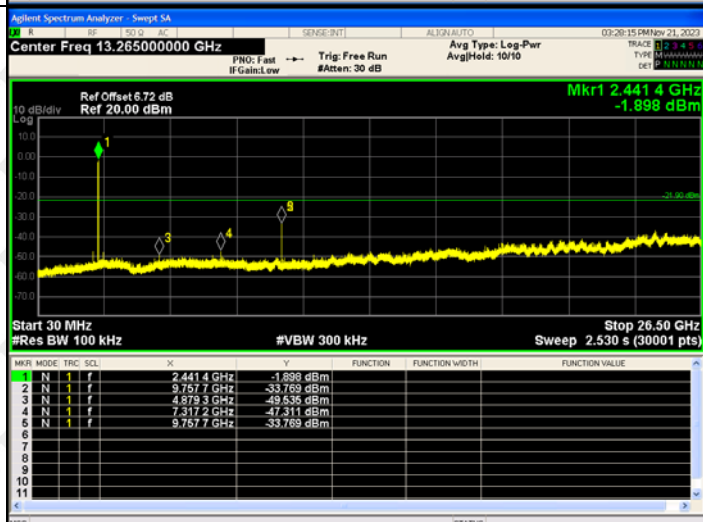


RF Conducted Spurious Emissions Graphs

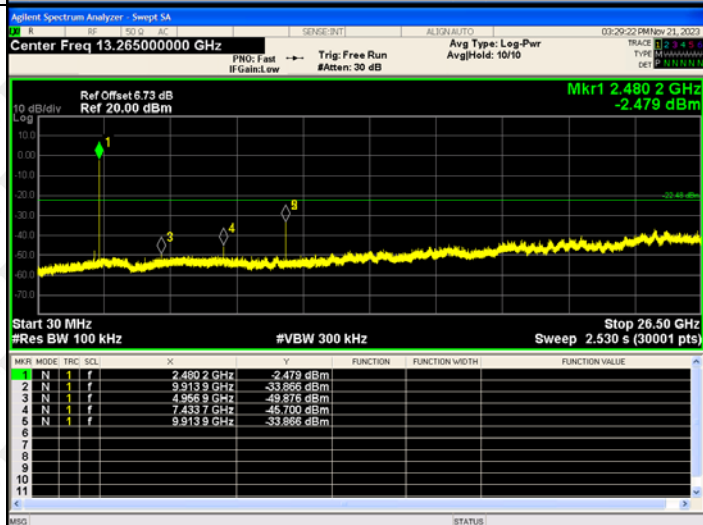
GFSK/LCH

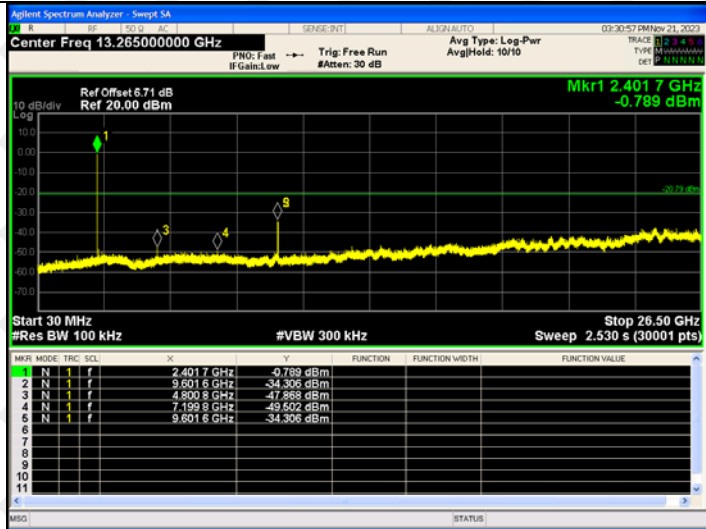
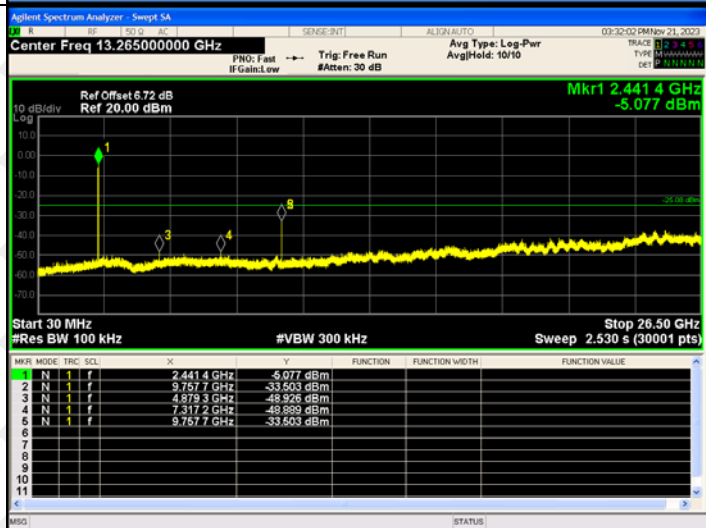
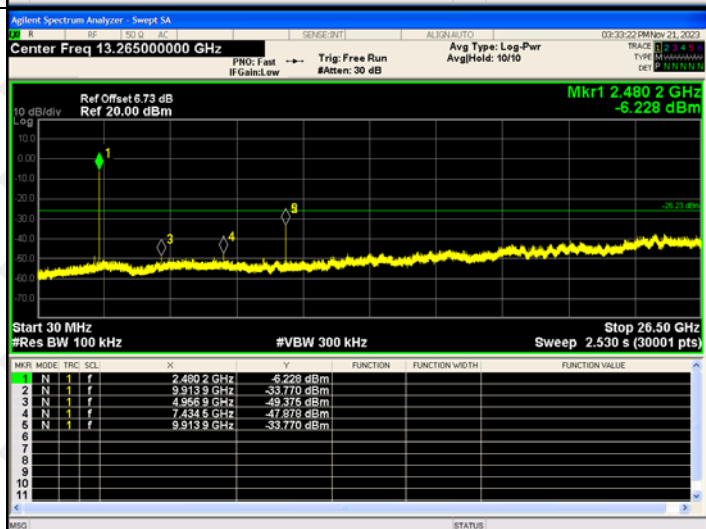


GFSK/MCH



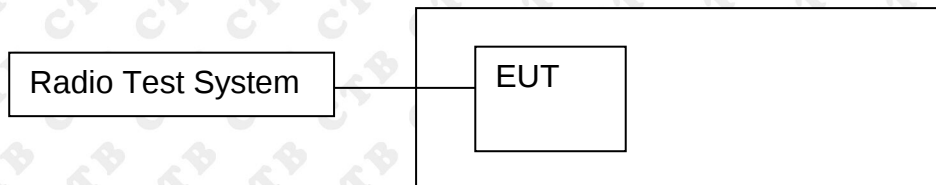
GFSK/HCH



$\pi/4$ DQPSK /LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 13.265000000 GHz Ref Offset 6.71 dB Ref 20.00 dBm Mkr1 2.401 7 GHz -0.789 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.530 s (30001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.401 7 GHz</td><td>-0.789 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>9.601 6 GHz</td><td>-34.306 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>4.800 8 GHz</td><td>-47.888 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>7.199 8 GHz</td><td>-49.502 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>9.601 6 GHz</td><td>-34.306 dBm</td><td></td><td></td><td></td></tr></table>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.401 7 GHz	-0.789 dBm				2	N	1	f	9.601 6 GHz	-34.306 dBm				3	N	1	f	4.800 8 GHz	-47.888 dBm				4	N	1	f	7.199 8 GHz	-49.502 dBm				5	N	1	f	9.601 6 GHz	-34.306 dBm			
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4	N	1	f	7.317 2 GHz	-48.889 dBm																																																		
5	N	1	f	9.757 7 GHz	-33.503 dBm																																																		
$\pi/4$ DQPSK/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 13.265000000 GHz Ref Offset 6.73 dB Ref 20.00 dBm Mkr1 2.480 2 GHz -6.228 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26.50 GHz Sweep 2.530 s (30001 pts) <table><tr><th>MKR</th><th>MODE</th><th>TRIG</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.480 2 GHz</td><td>-6.228 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>9.913 9 GHz</td><td>-33.770 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>4.996 9 GHz</td><td>-49.375 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>7.434 5 GHz</td><td>-47.879 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>9.913 9 GHz</td><td>-33.770 dBm</td><td></td><td></td><td></td></tr></table>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.480 2 GHz	-6.228 dBm				2	N	1	f	9.913 9 GHz	-33.770 dBm				3	N	1	f	4.996 9 GHz	-49.375 dBm				4	N	1	f	7.434 5 GHz	-47.879 dBm				5	N	1	f	9.913 9 GHz	-33.770 dBm			
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9. COUDUCTED PEAK OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

9.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

9.4 Test Result

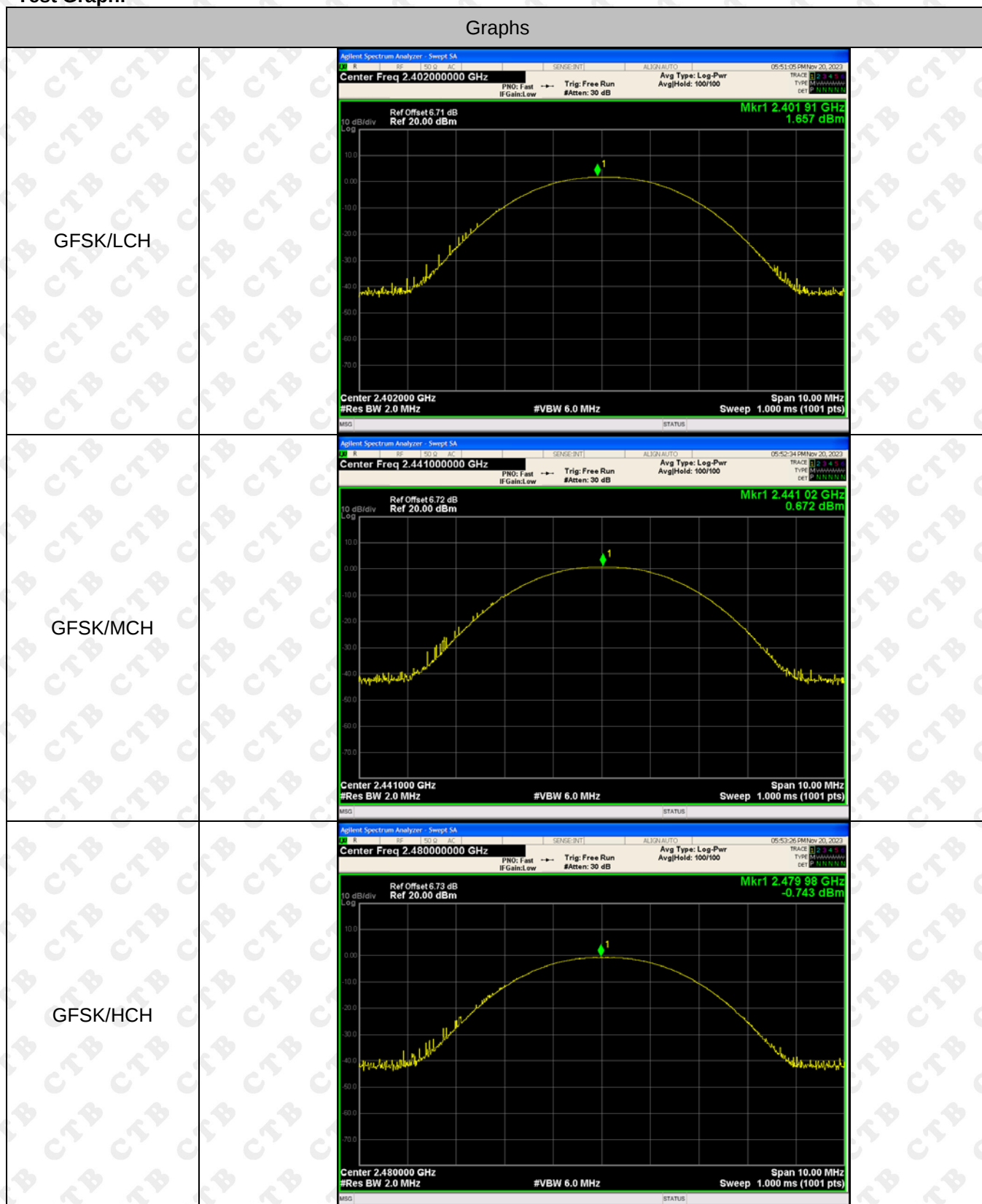
Right ear:

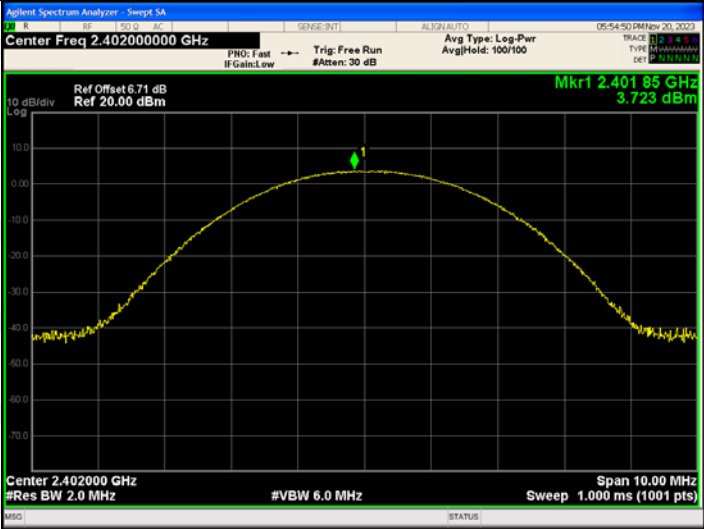
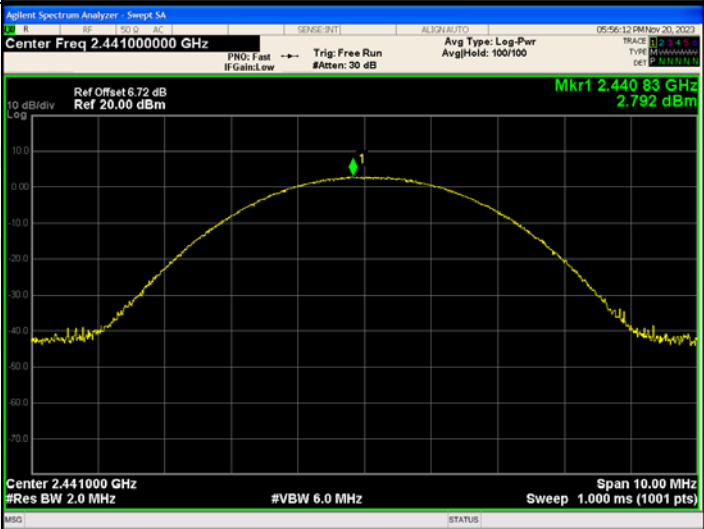
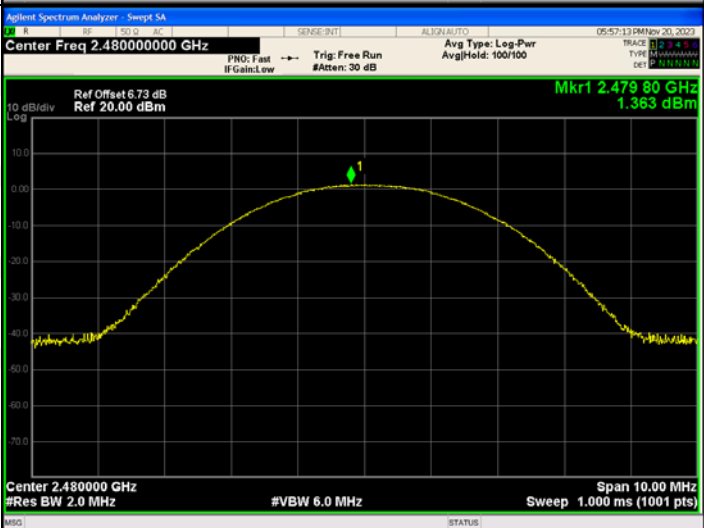
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
EDR mode (GFSK)	LCH	1.657	20.97	PASS
	MCH	0.672	20.97	PASS
	HCH	-0.743	20.97	PASS
EDR mode ($\pi/4$ DQPSK)	LCH	3.723	20.97	PASS
	MCH	2.792	20.97	PASS
	HCH	1.363	20.97	PASS

Left ear:

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
EDR mode (GFSK)	LCH	-0.322	20.97	PASS
	MCH	-0.815	20.97	PASS
	HCH	-2.322	20.97	PASS
EDR mode ($\pi/4$ DQPSK)	LCH	0.398	20.97	PASS
	MCH	-0.074	20.97	PASS
	HCH	-1.65	20.97	PASS

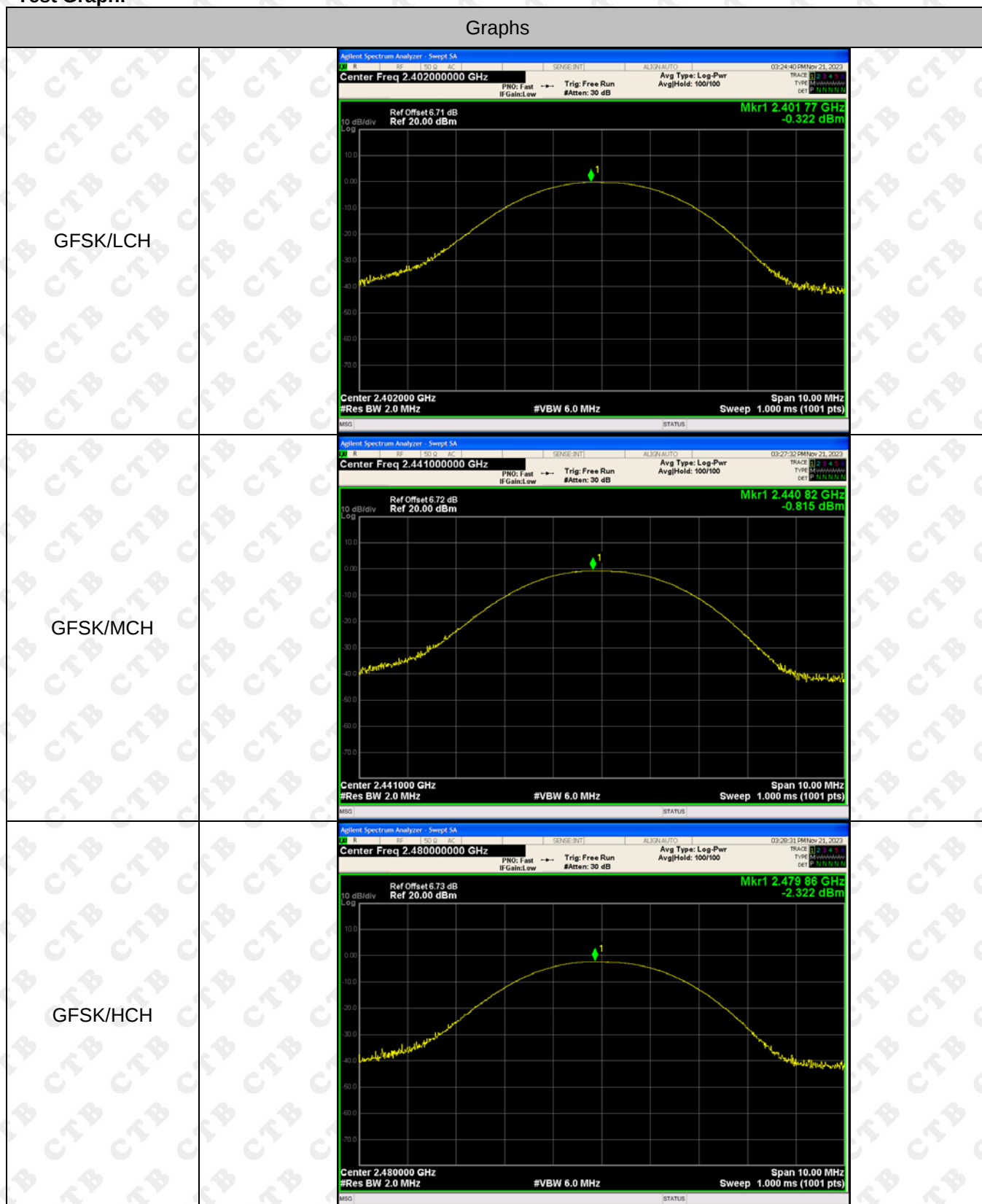
Right ear:
Test Graph:

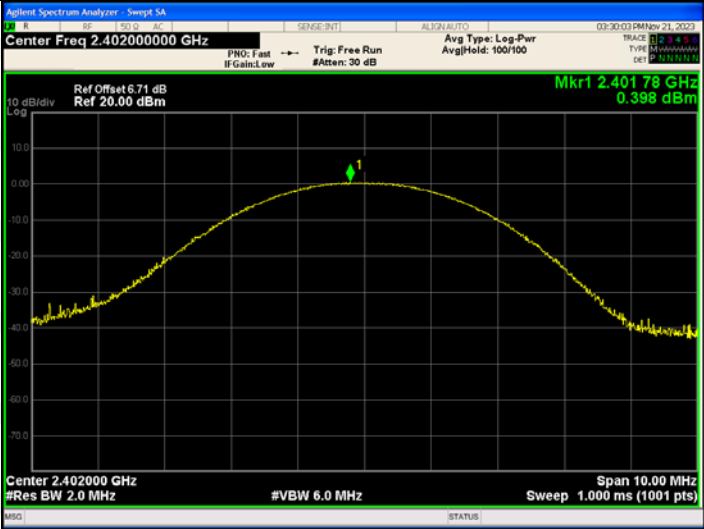
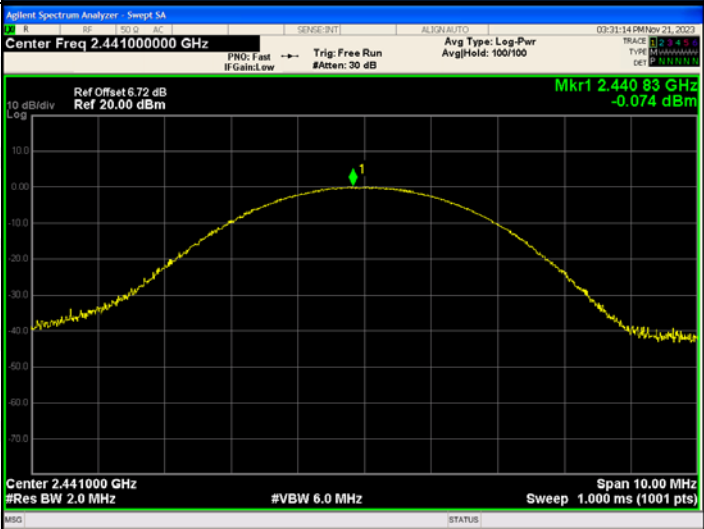
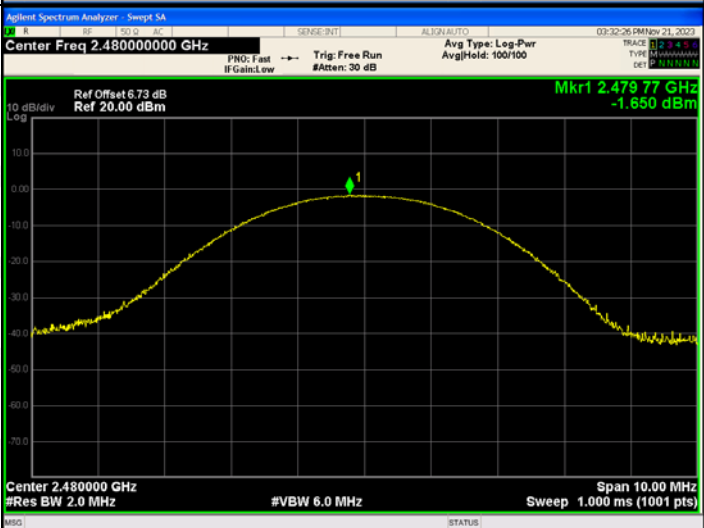


$\pi/4$ DQPSK/LCH	
$\pi/4$ DQPSK/MCH	
$\pi/4$ DQPSK/HCH	

Left ear:

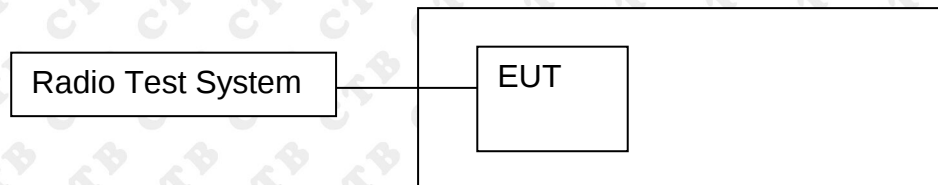
Test Graph:



$\pi/4$ DQPSK/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.40200000 GHz Ref Offset 6.71 dB Ref 20.00 dBm Mkr1 2.40178 GHz 0.398 dBm Center 2.402000 GHz #Res BW 2.0 MHz #VBW 6.0 MHz Span 10.00 MHz Sweep 1.000 ms (1001 pts)
$\pi/4$ DQPSK/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.44100000 GHz Ref Offset 6.72 dB Ref 20.00 dBm Mkr1 2.44083 GHz -0.074 dBm Center 2.441000 GHz #Res BW 2.0 MHz #VBW 6.0 MHz Span 10.00 MHz Sweep 1.000 ms (1001 pts)
$\pi/4$ DQPSK/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.48000000 GHz Ref Offset 6.73 dB Ref 20.00 dBm Mkr1 2.47977 GHz -1.650 dBm Center 2.480000 GHz #Res BW 2.0 MHz #VBW 6.0 MHz Span 10.00 MHz Sweep 1.000 ms (1001 pts)

10. 20DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mw.

10.3 Test procedure

1. Rem1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

Right ear:

Test Mode	Frequency	20dB Bandwidth (MHz)	Result
GFSK	Low channel	0.876	PASS
	Mid channel	0.881	PASS
	High channel	0.923	PASS
$\pi/4$ DQPSK	Low channel	1.288	PASS
	Mid channel	1.289	PASS
	High channel	1.287	PASS

Left ear:

Test Mode	Frequency	20dB Bandwidth (MHz)	Result
GFSK	Low channel	0.866	PASS
	Mid channel	0.857	PASS
	High channel	0.873	PASS
$\pi/4$ DQPSK	Low channel	1.282	PASS
	Mid channel	1.311	PASS
	High channel	1.321	PASS

Note: All modes of operation were Pre-scan and the worst-case emissions are reported.