



Appendix A

RF Test Data for BT LE V5.1 (Conducted Measurement)

Product Name: Locator

Trade Mark: 

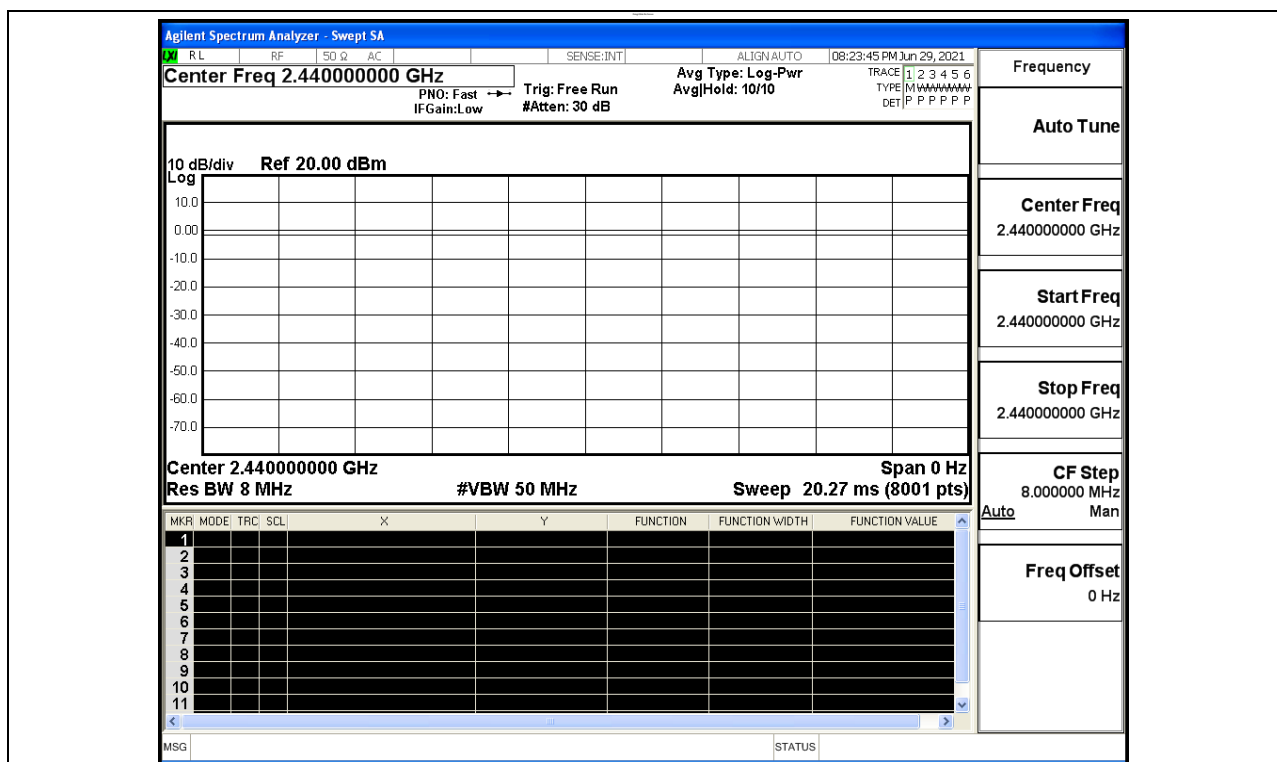
Test Model: XR-2

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

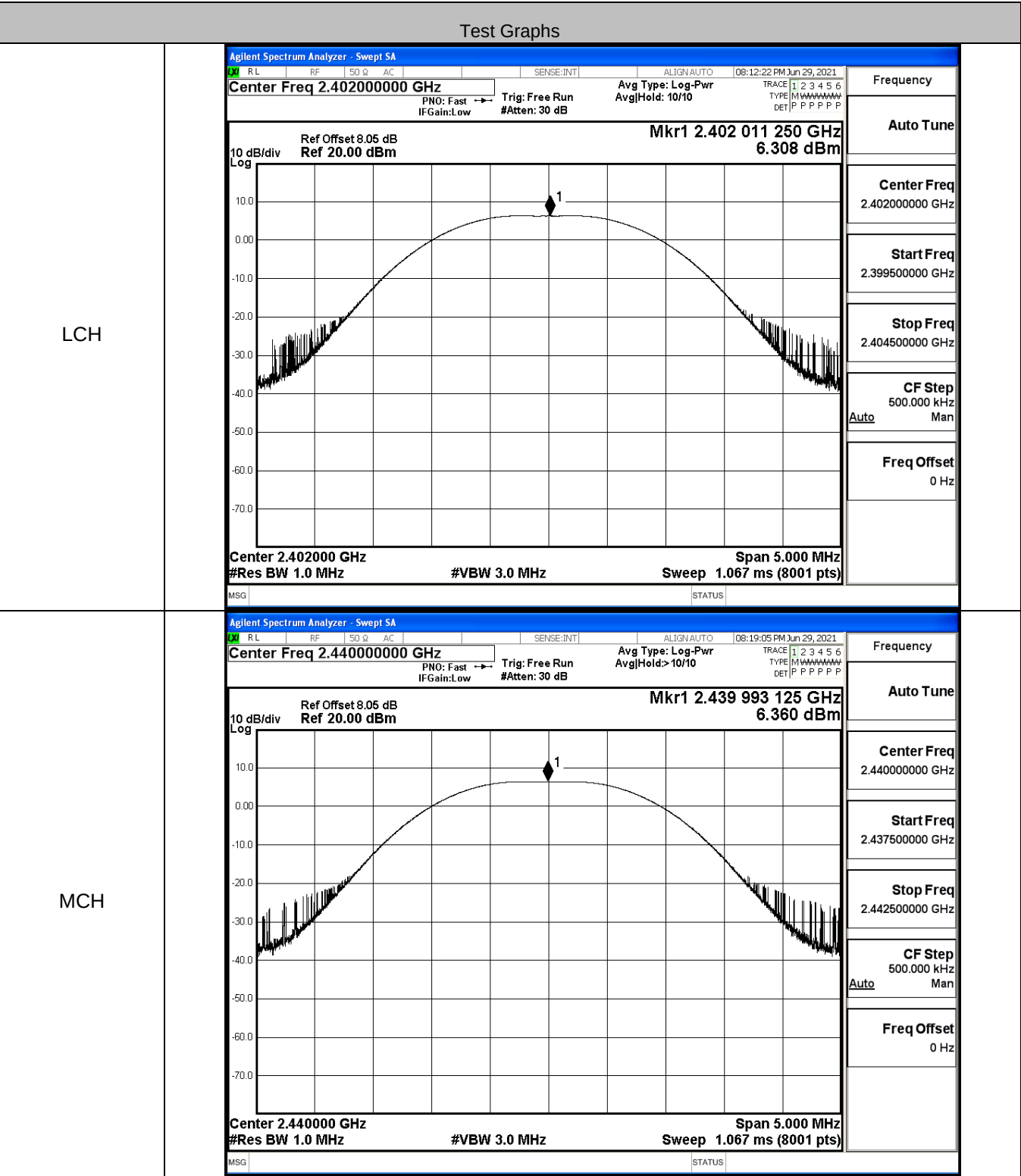
A.1 Duty Cycle

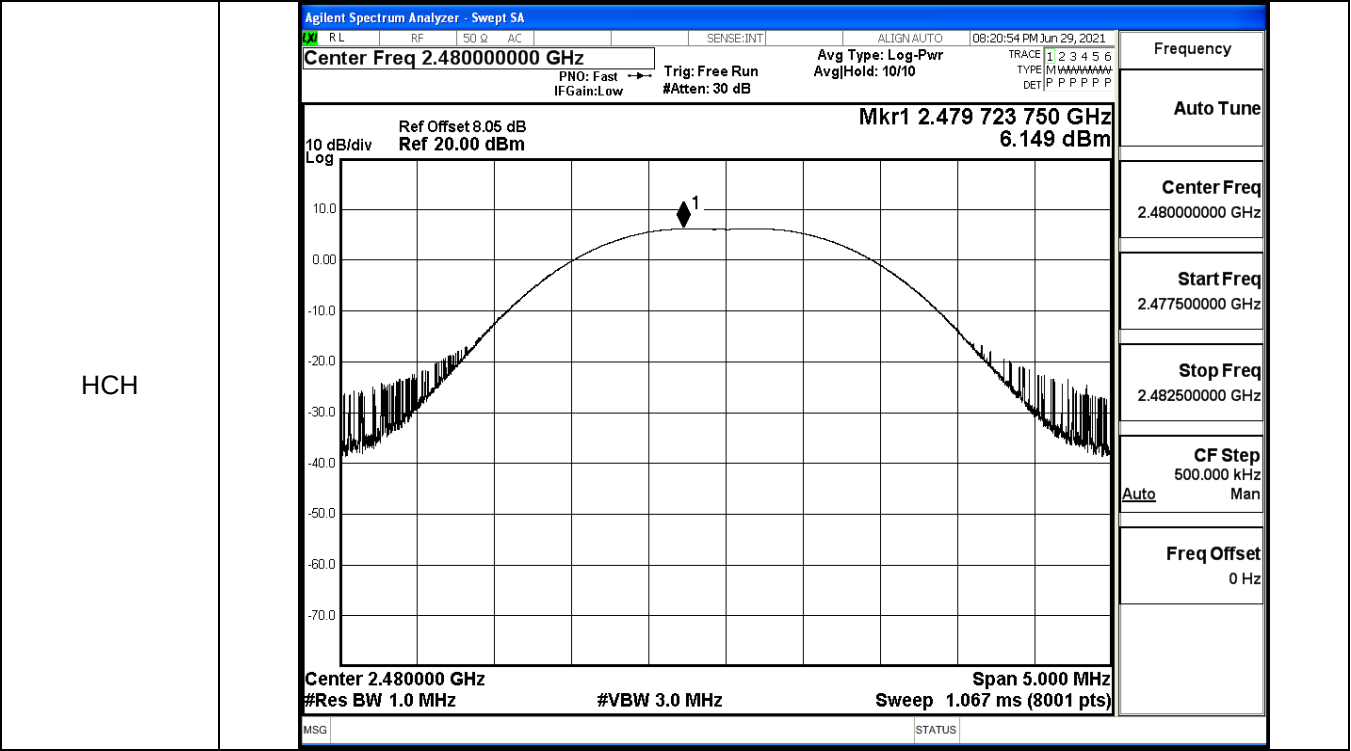
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	6.308	30	PASS
BT LE	MCH	6.36	30	PASS
BT LE	HCH	6.149	30	PASS

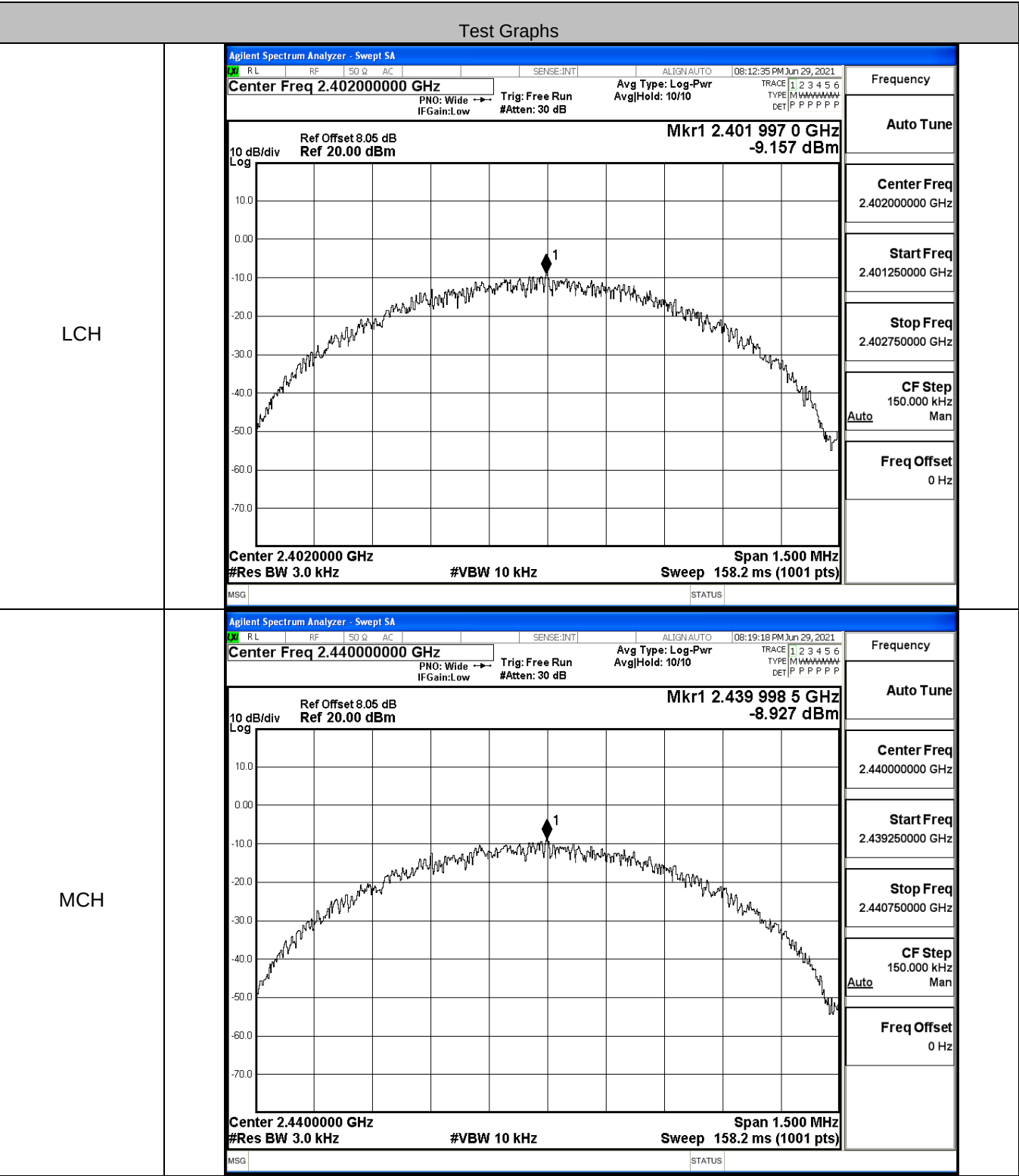


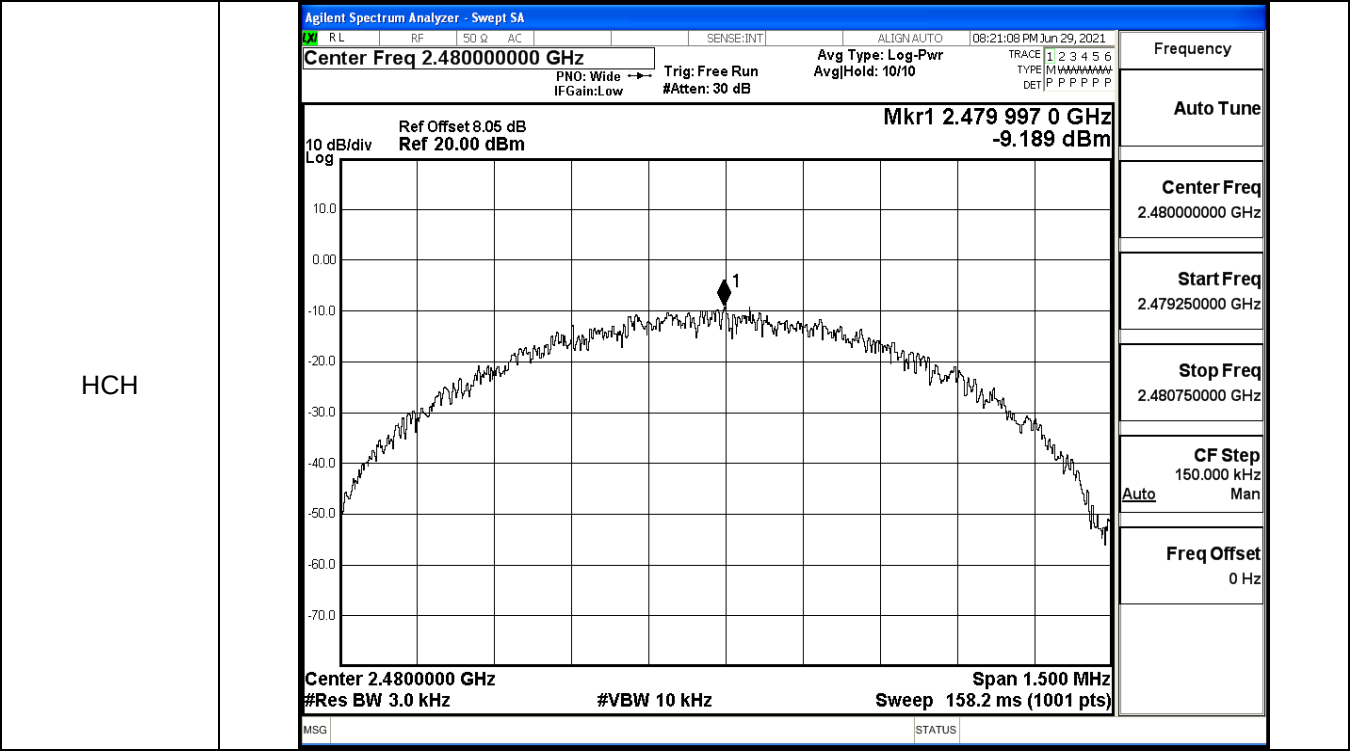




A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-9.157	8	PASS
BT LE	MCH	-8.927	8	PASS
BT LE	HCH	-9.189	8	PASS





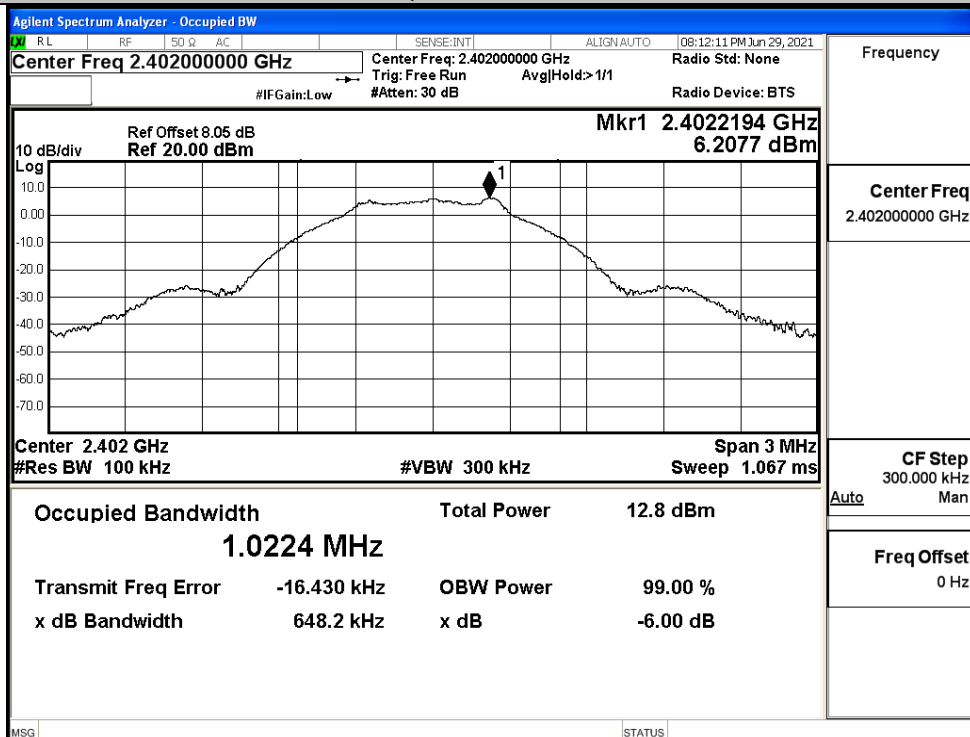


A.4 6dB Bandwidth

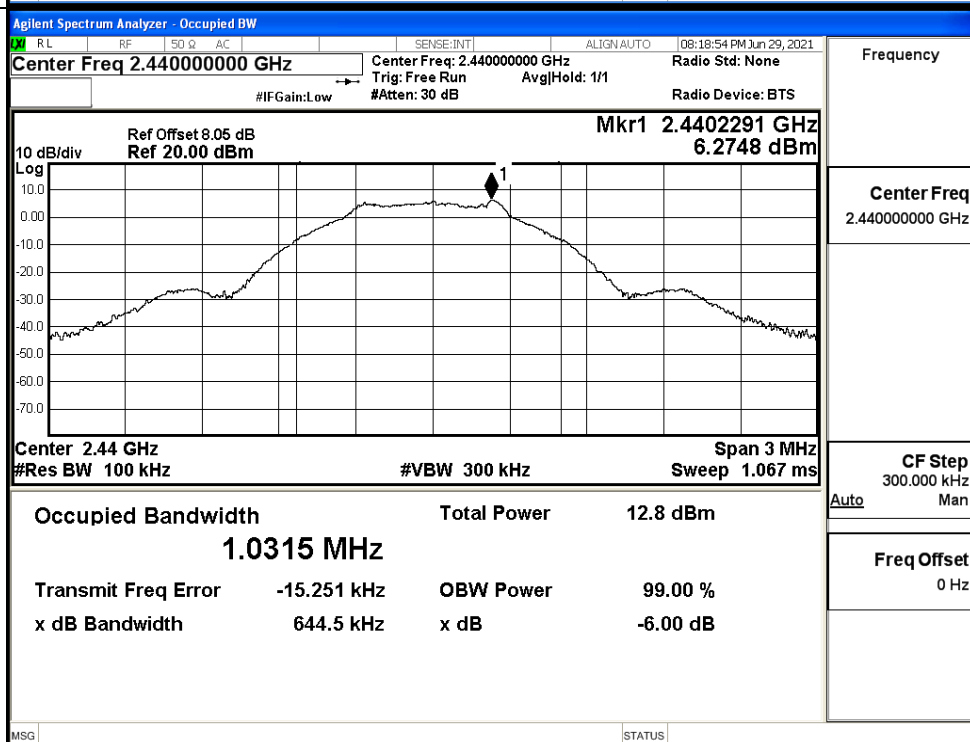
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6482	≥ 0.5	PASS
BT LE	MCH	0.6445	≥ 0.5	PASS
BT LE	HCH	0.6445	≥ 0.5	PASS

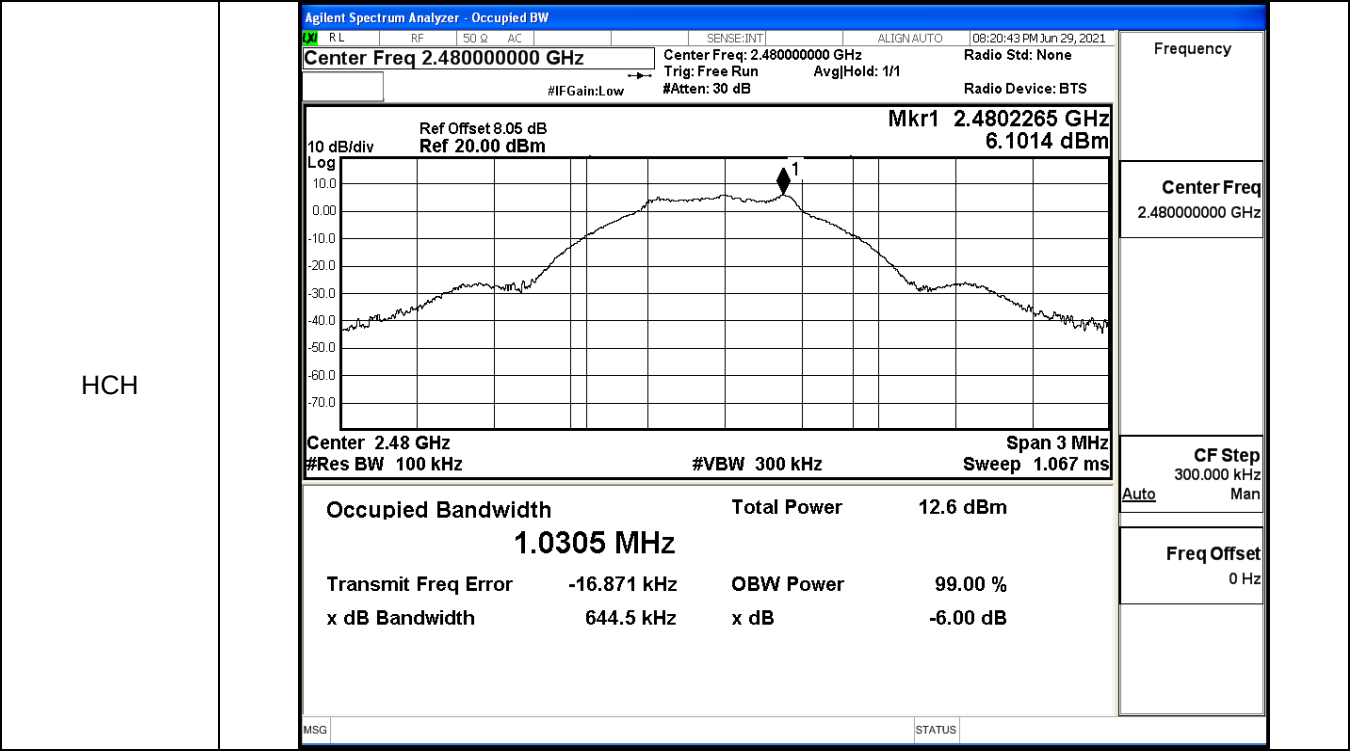
Test Graphs

LCH



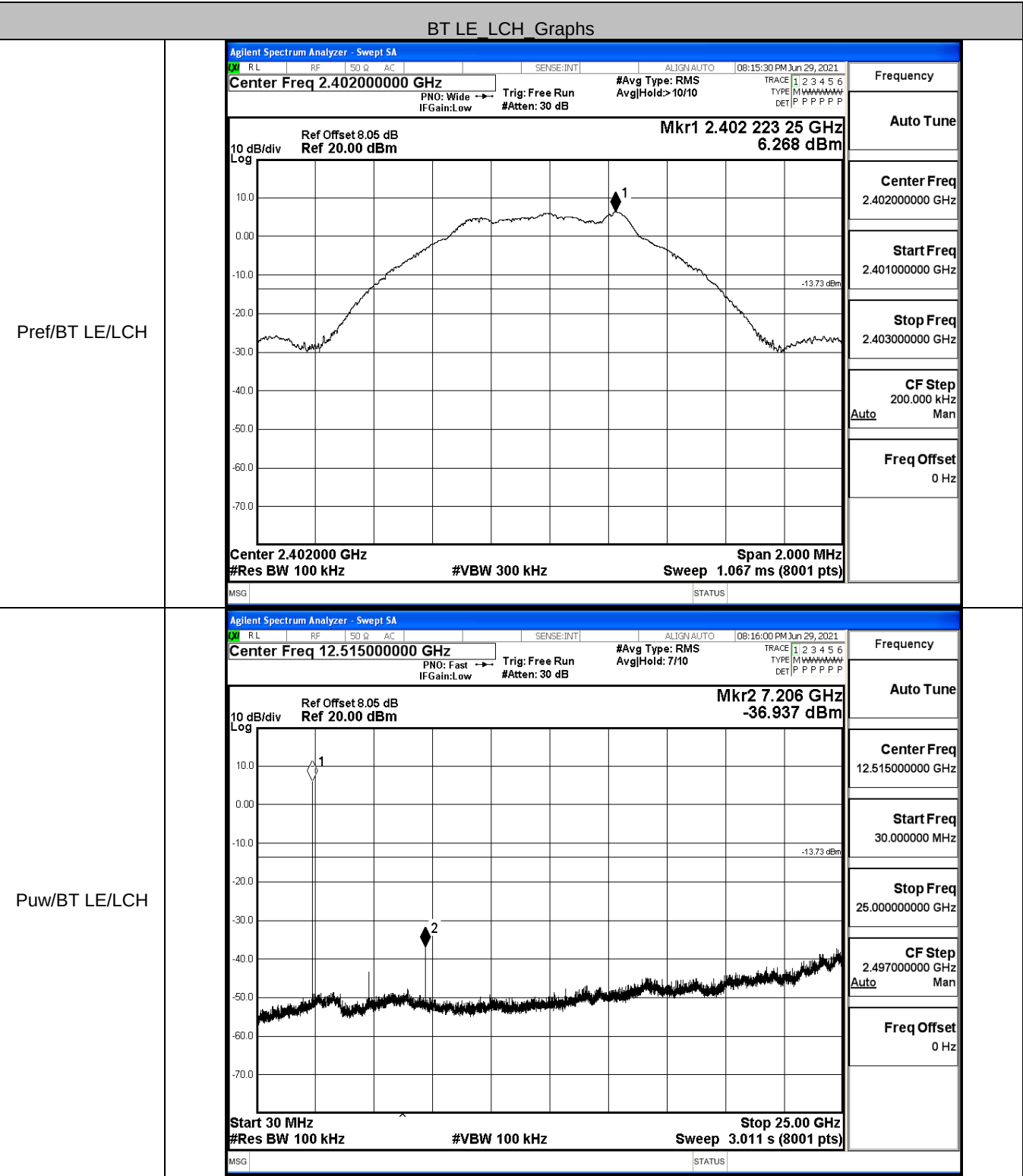
MCH





A.5 RF Conducted Spurious Emissions

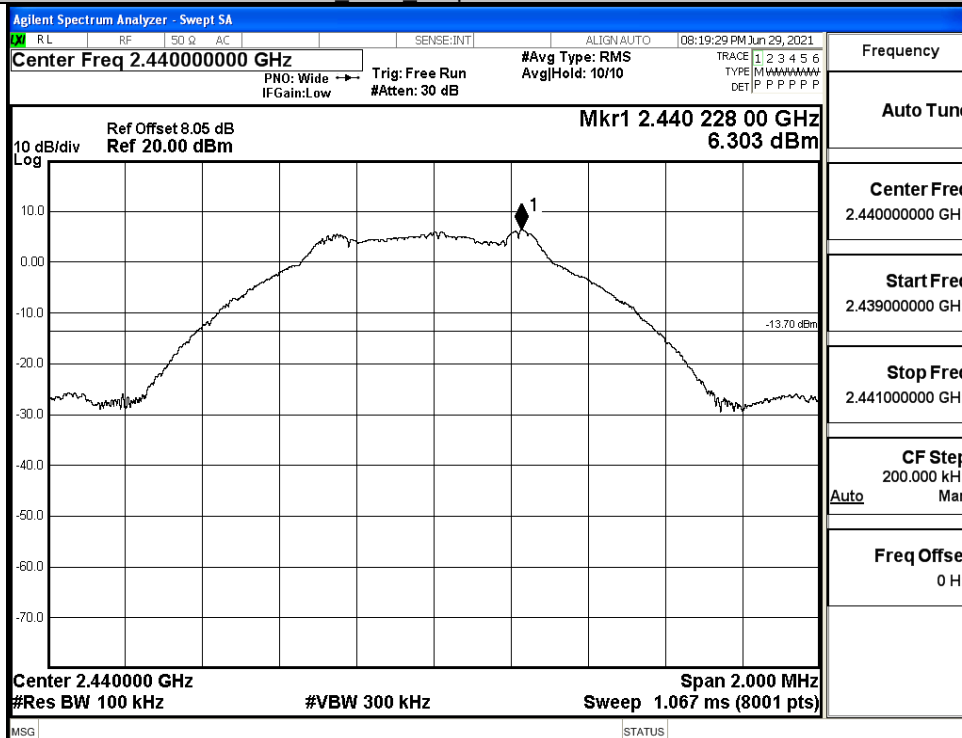
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	6.268	-36.937	-13.732	PASS
BT LE	MCH	6.303	-38.282	-13.697	PASS
BT LE	HCH	6.054	-38.500	-13.946	PASS



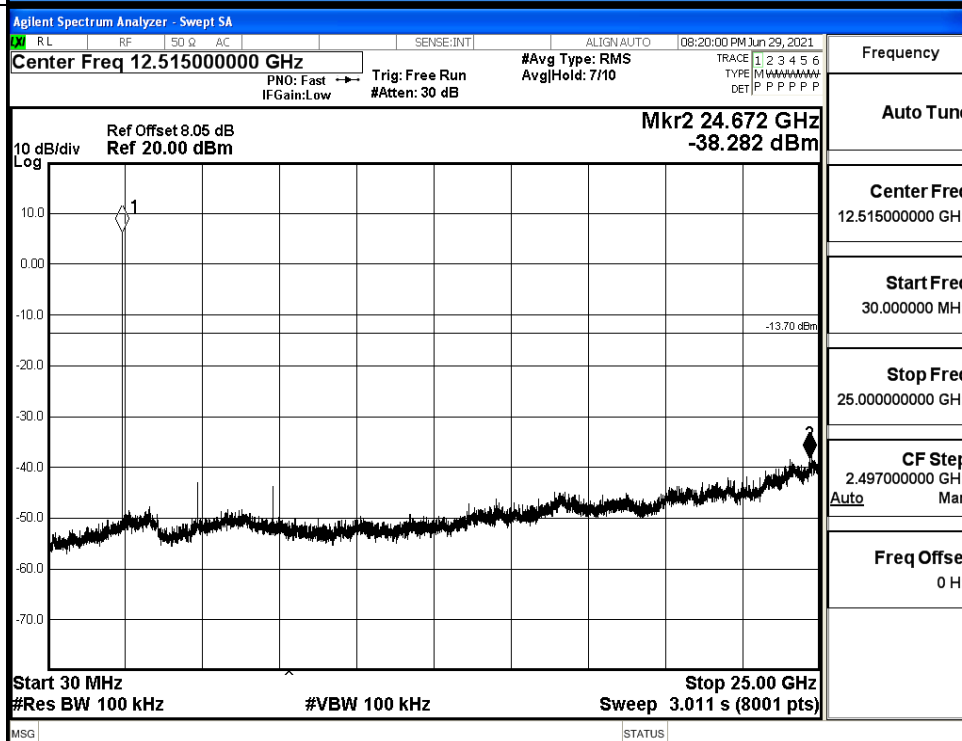


BT LE MCH Graphs

Pref/BT LE/MCH



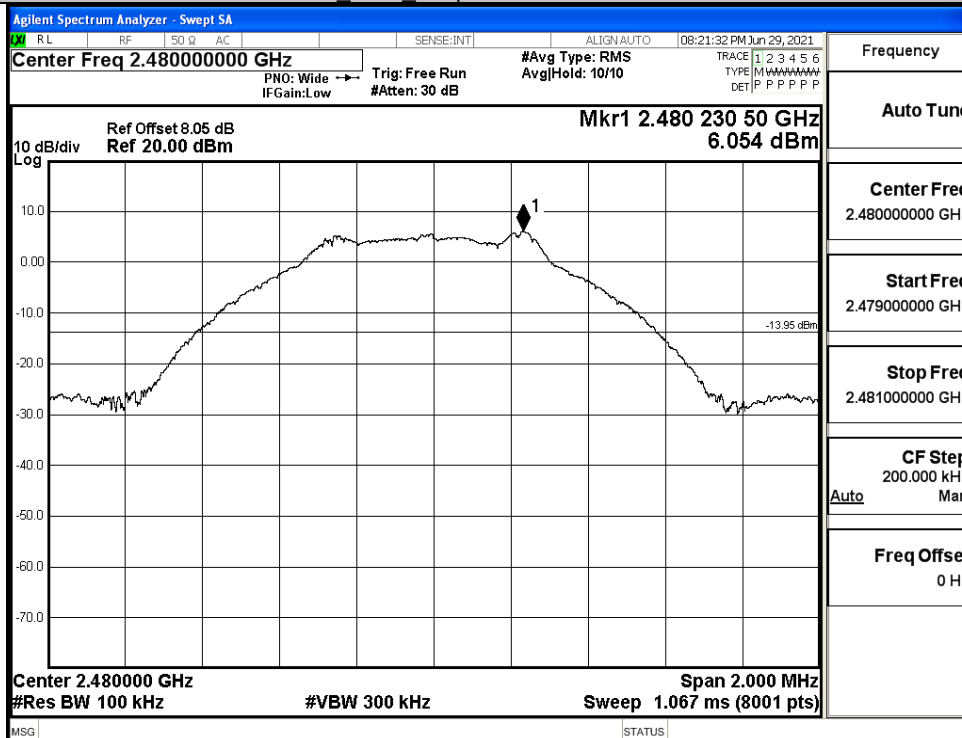
Puw/BT LE/MCH



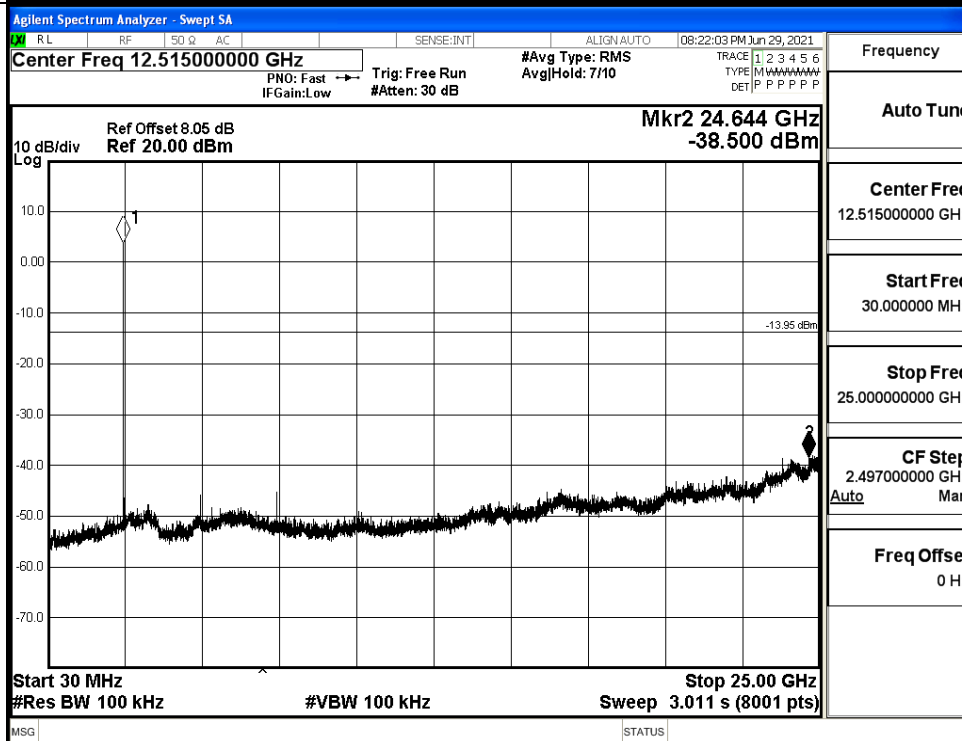


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH





A.6 Band-edge for RF Conducted Emissions

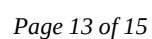
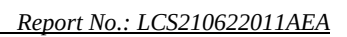
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	5.667	-49.311	-14.33	PASS
BT LE	HCH	6.125	-48.561	-13.88	PASS

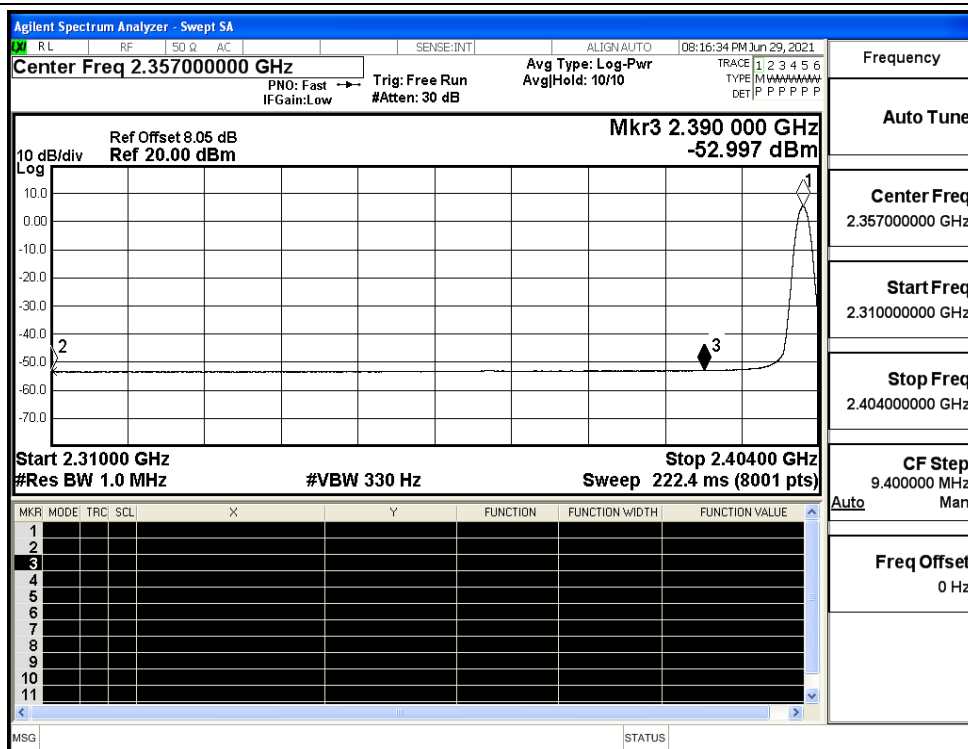
Test Graphs																																																																																																															
LCH	Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC SENSE:INT ALIGN:AUTO 08:15:18 PM Jun 29, 2021 Center Freq 2.357000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 10/10 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P P P P P P Ref Offset 8.05 dB Ref 20.00 dBm Mkr4 2.388 619 GHz -49.311 dBm 10 dB/div Log Start 2.31000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.40400 GHz Sweep 9.067 ms (8001 pts) <table><thead><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> MSG STATUS Frequency Auto Tune Center Freq 2.357000000 GHz Start Freq 2.310000000 GHz Stop Freq 2.404000000 GHz CF Step 9.400000 MHz Auto Man Freq Offset 0 Hz			MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1									2									3									4									5									6									7									8									9									10									11								
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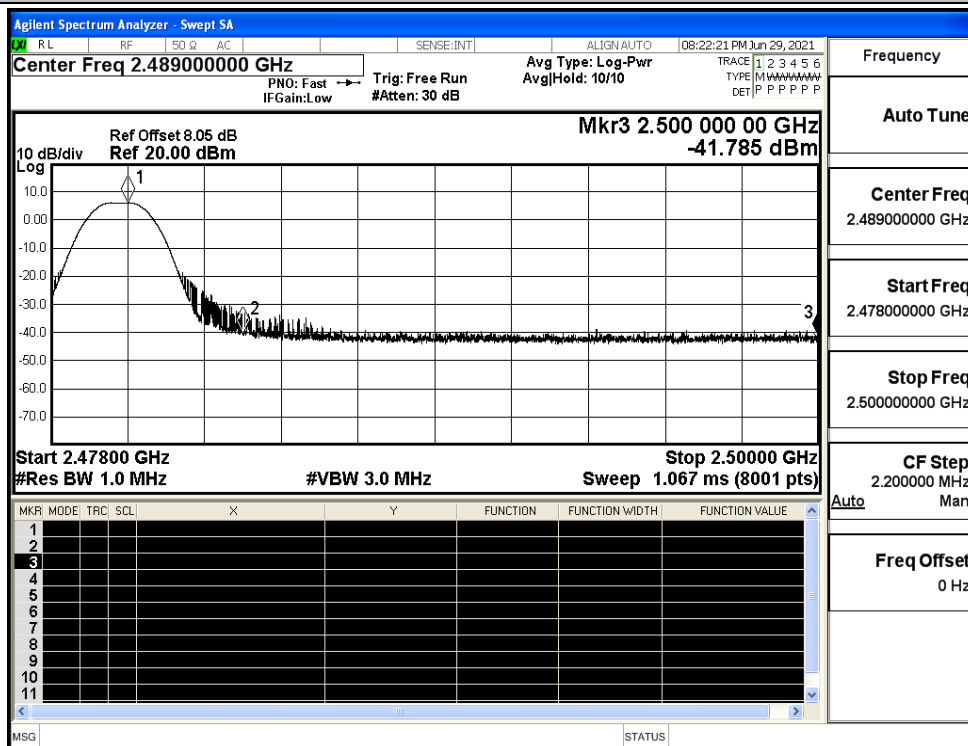
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	Ant1	2310.0	-43.85	6.0	0	57.38	PEAK	74	PASS
		Ant1	2310.0	-53.35	6.0	0	47.88	AV	54	PASS
		Ant1	2390.0	-42.63	6.0	0	58.60	PEAK	74	PASS
		Ant1	2390.0	-53.00	6.0	0	48.23	AV	54	PASS
	2480	Ant1	2483.5	-40.34	6.0	0	60.89	PEAK	74	PASS
		Ant1	2483.5	-49.96	6.0	0	51.27	AV	54	PASS
		Ant1	2500.0	-41.79	6.0	0	59.44	PEAK	74	PASS
		Ant1	2500.0	-52.43	6.0	0	48.80	AV	54	PASS





Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

