

Appendix B

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Speaker

Trade Mark: GSOU

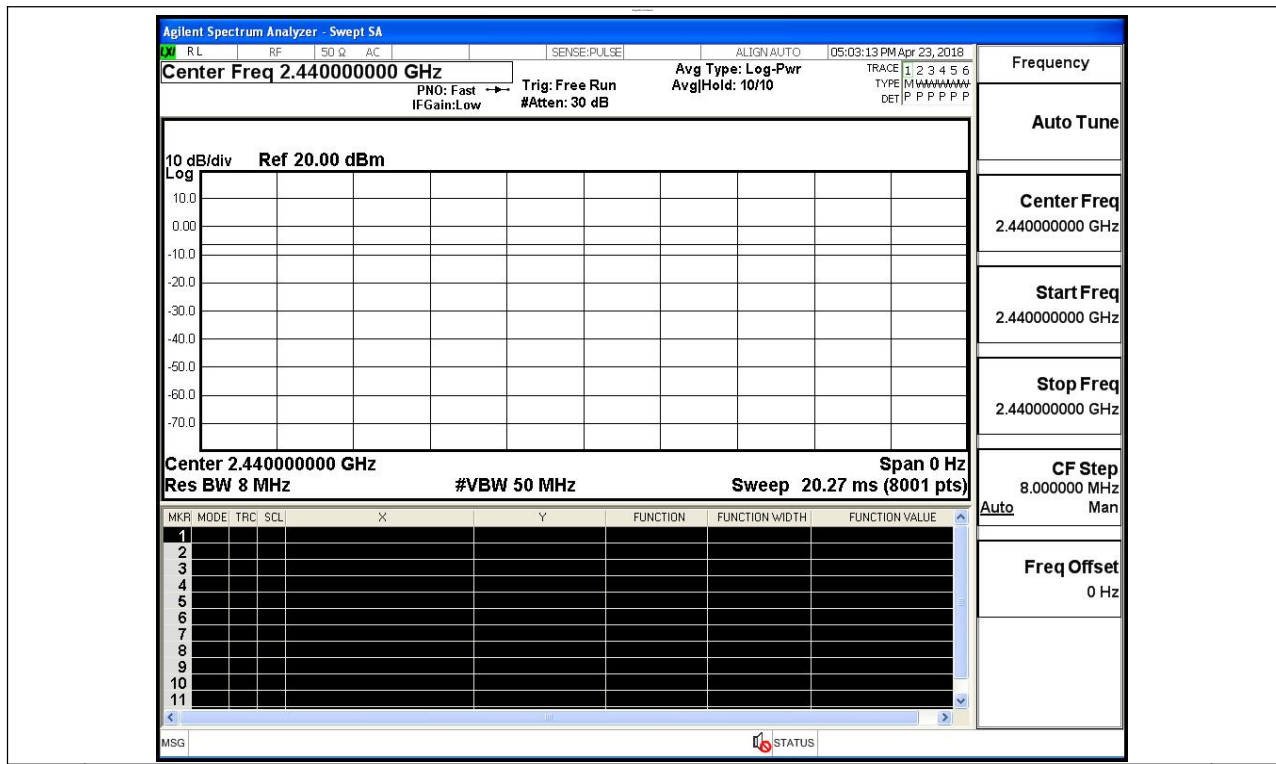
Test Model: V6

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	50.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Jayden.Zhuo

B.1 Duty Cycle

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

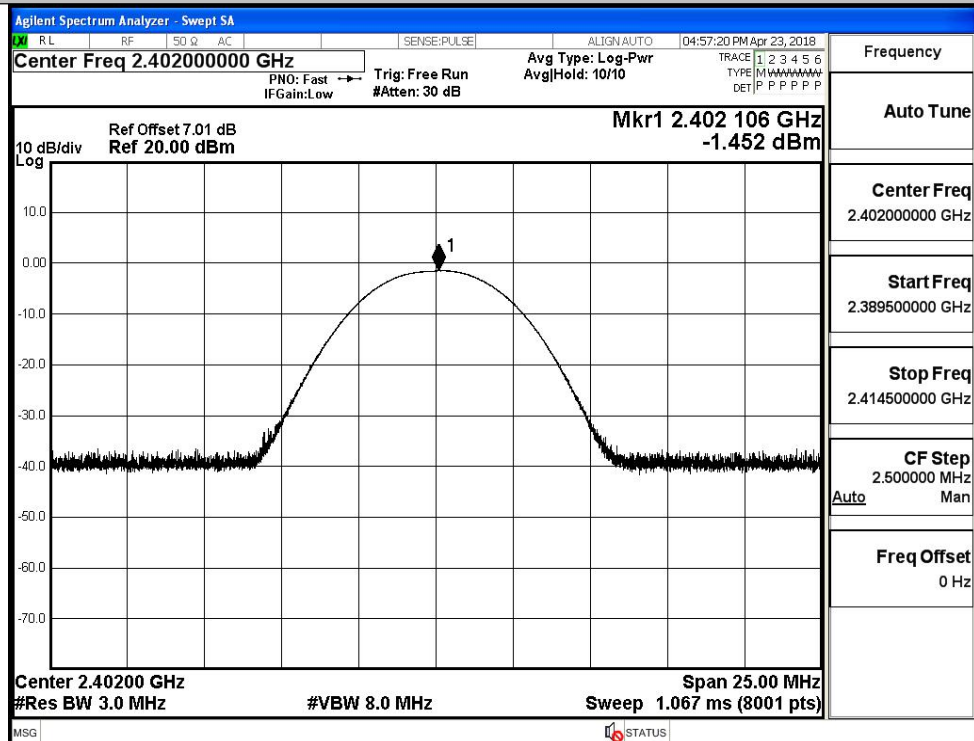


B.2 Maximum Conducted Peak Output Power

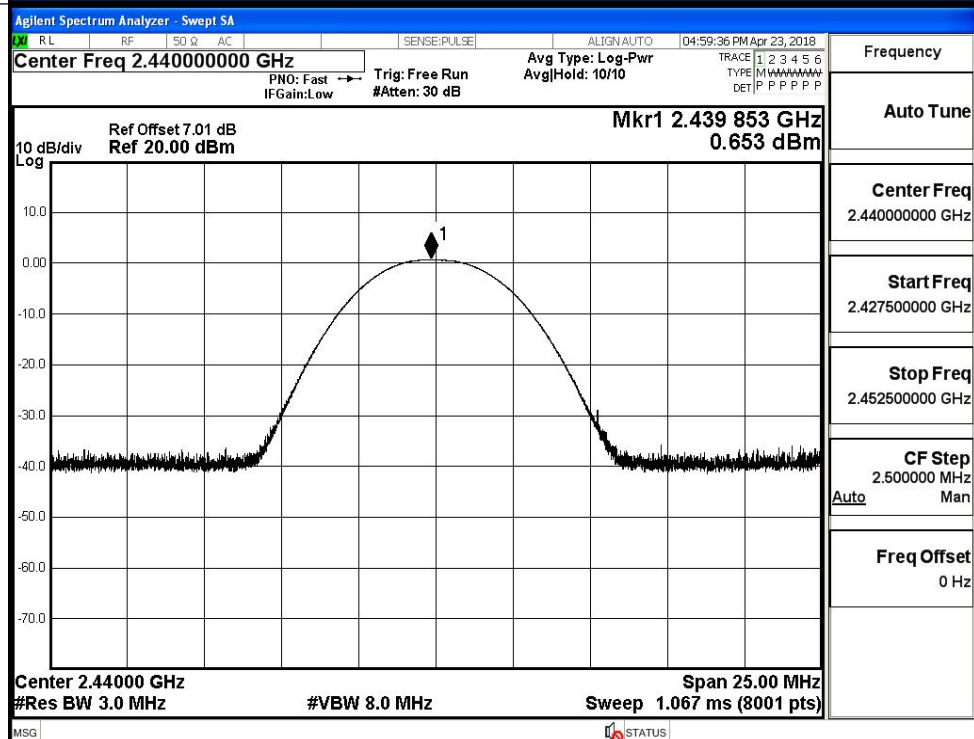
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.452	30	PASS
BT LE	MCH	0.653	30	PASS
BT LE	HCH	1.904	30	PASS

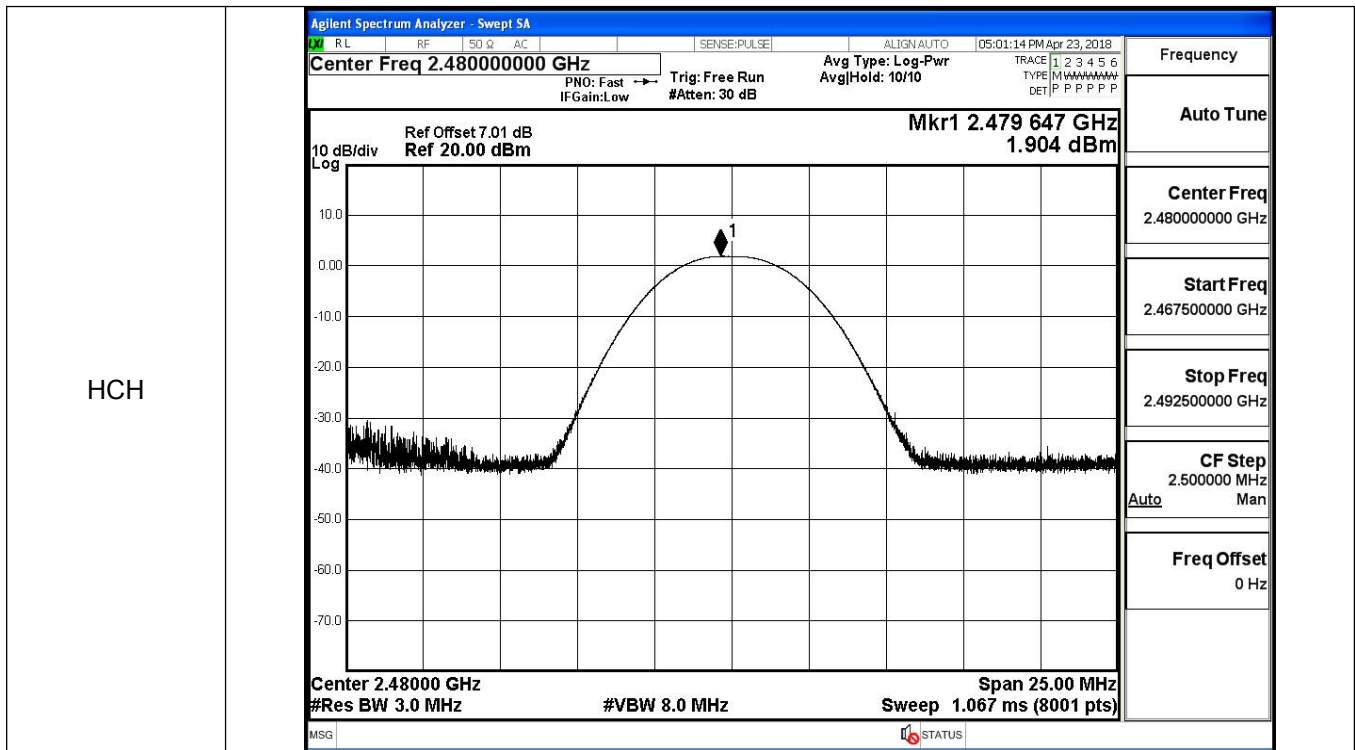
Test Graphs

LCH



MCH



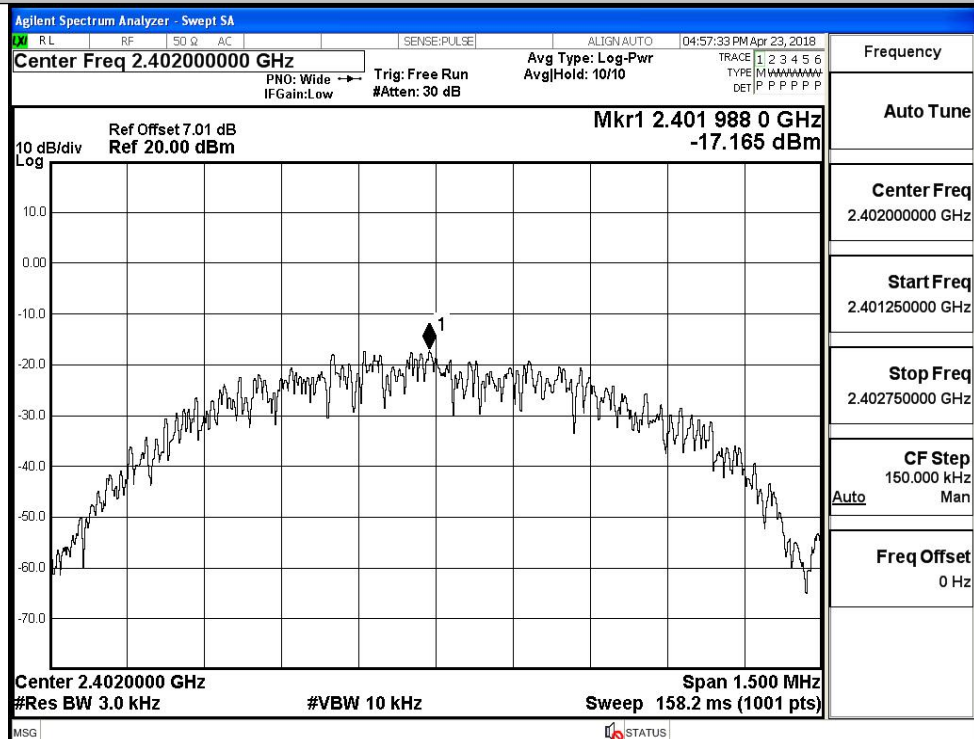


B.3 Maximum Power Spectral Density

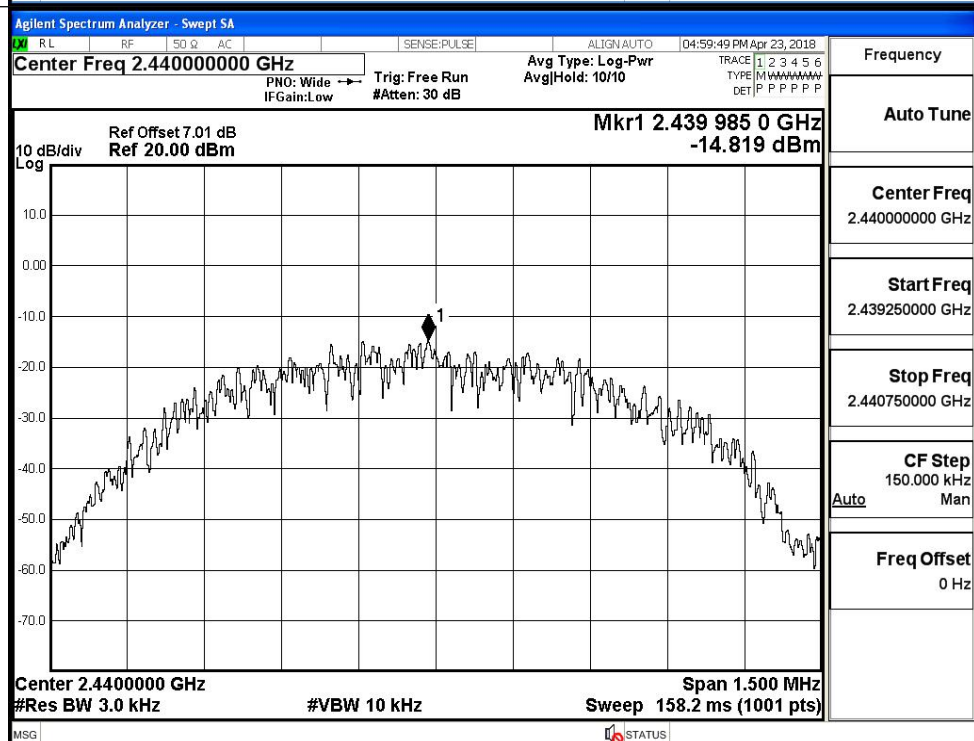
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.165	8	PASS
BT LE	MCH	-14.819	8	PASS
BT LE	HCH	-13.589	8	PASS

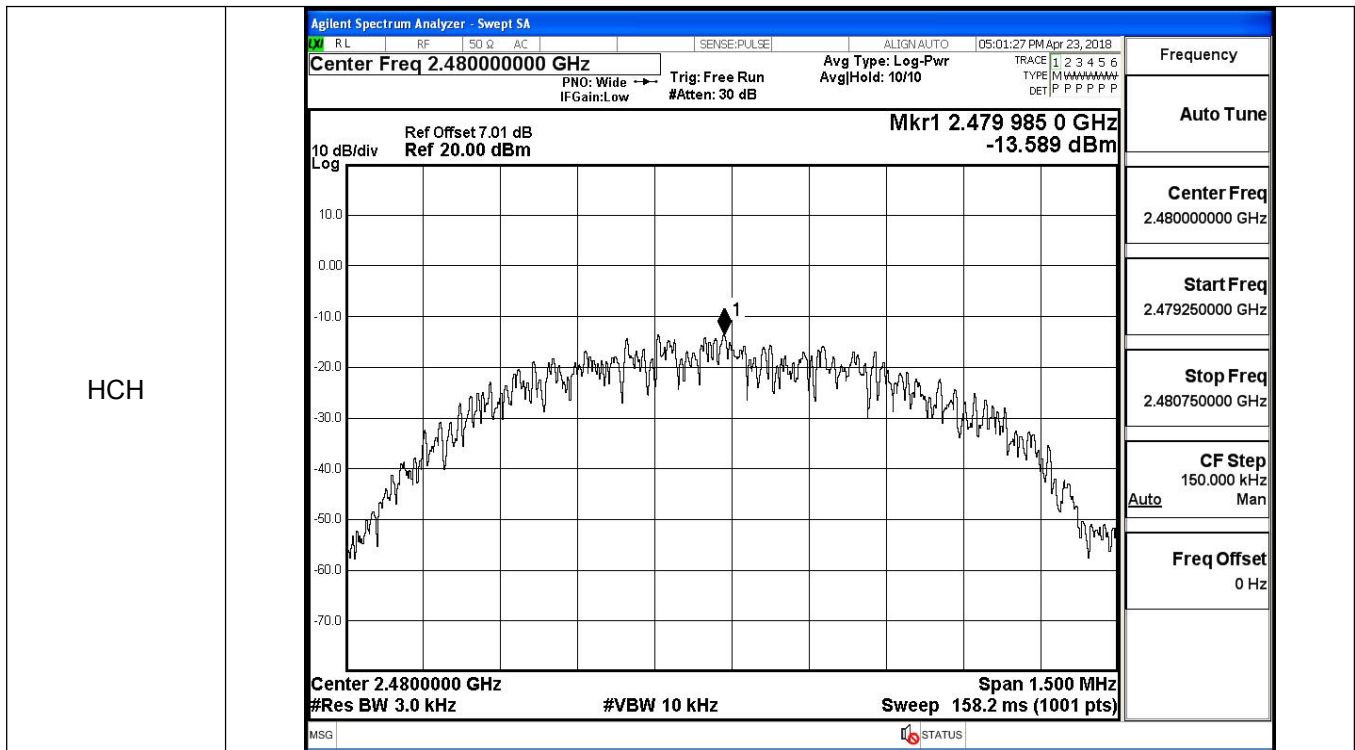
Test Graphs

LCH



MCH



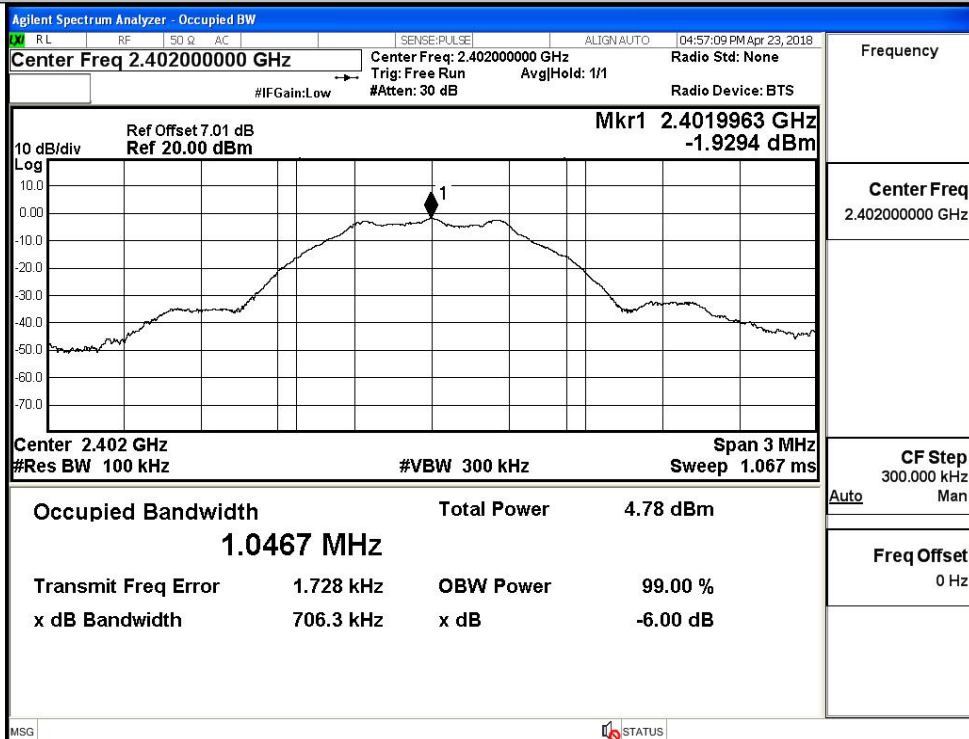


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7063	≥ 0.5	PASS
BT LE	MCH	0.6997	≥ 0.5	PASS
BT LE	HCH	0.6996	≥ 0.5	PASS

Test Graphs

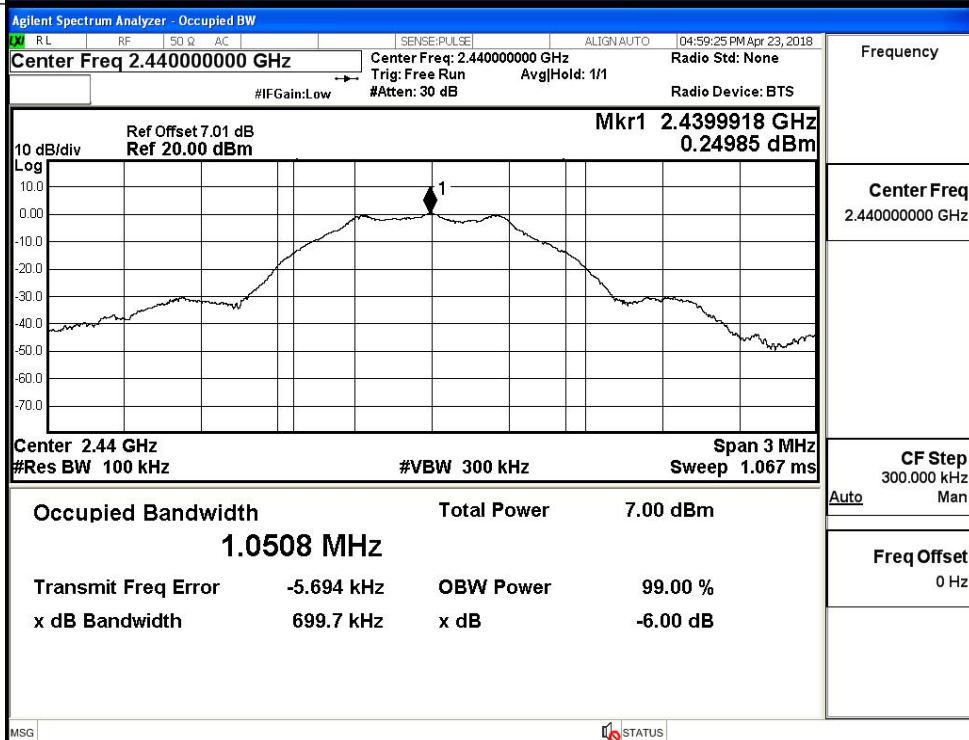
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

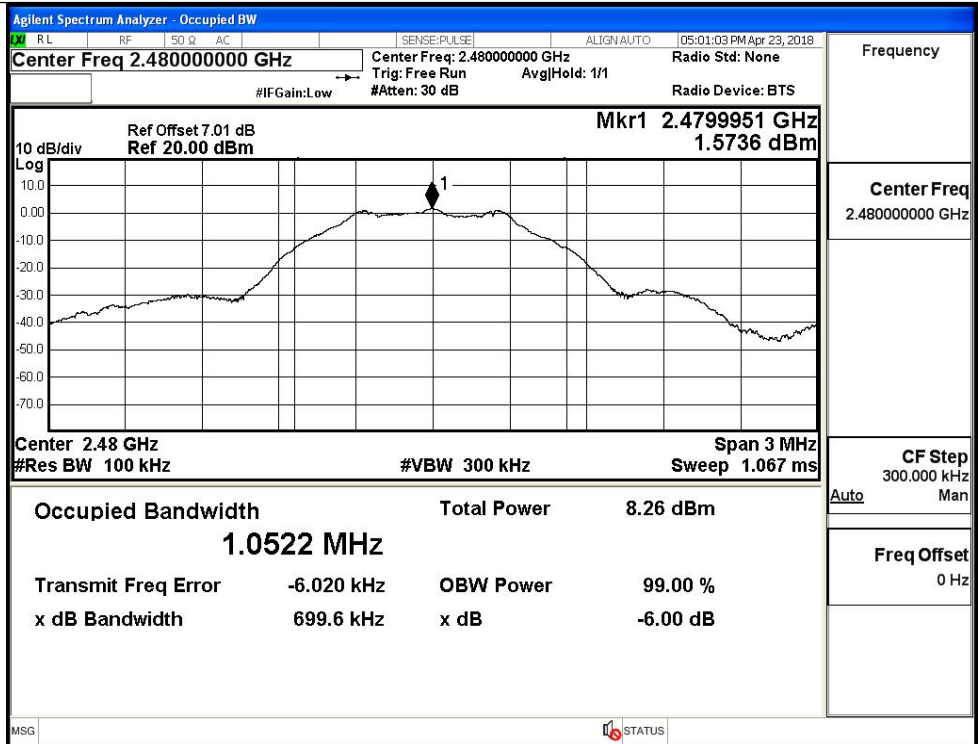
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
Auto ManFreq Offset
0 Hz

HCH

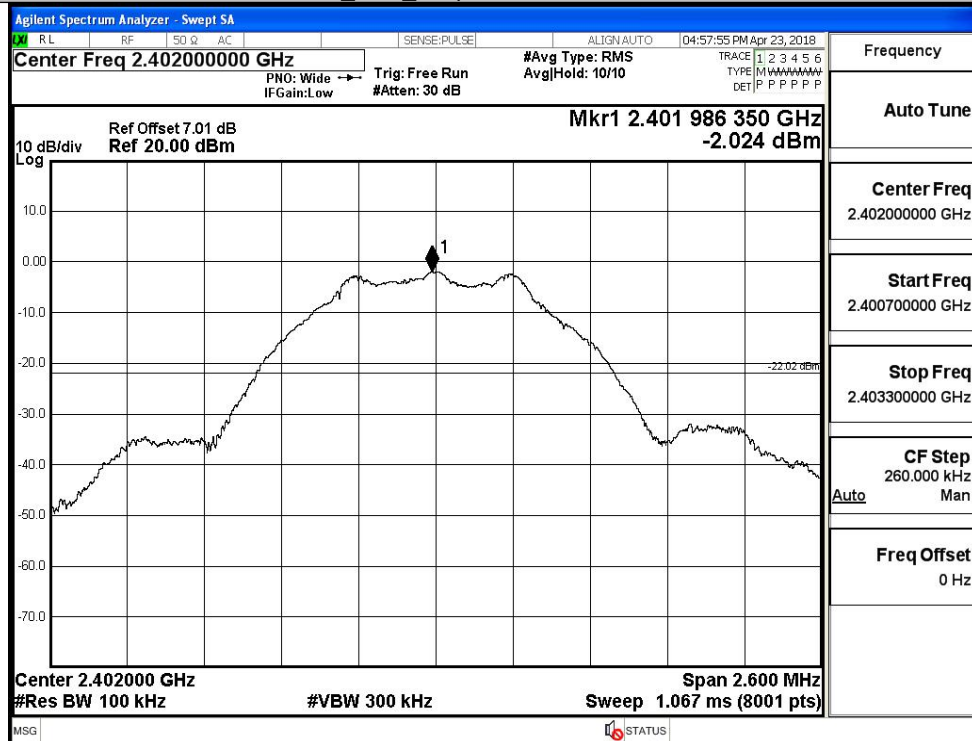


B.5 RF Conducted Spurious Emissions

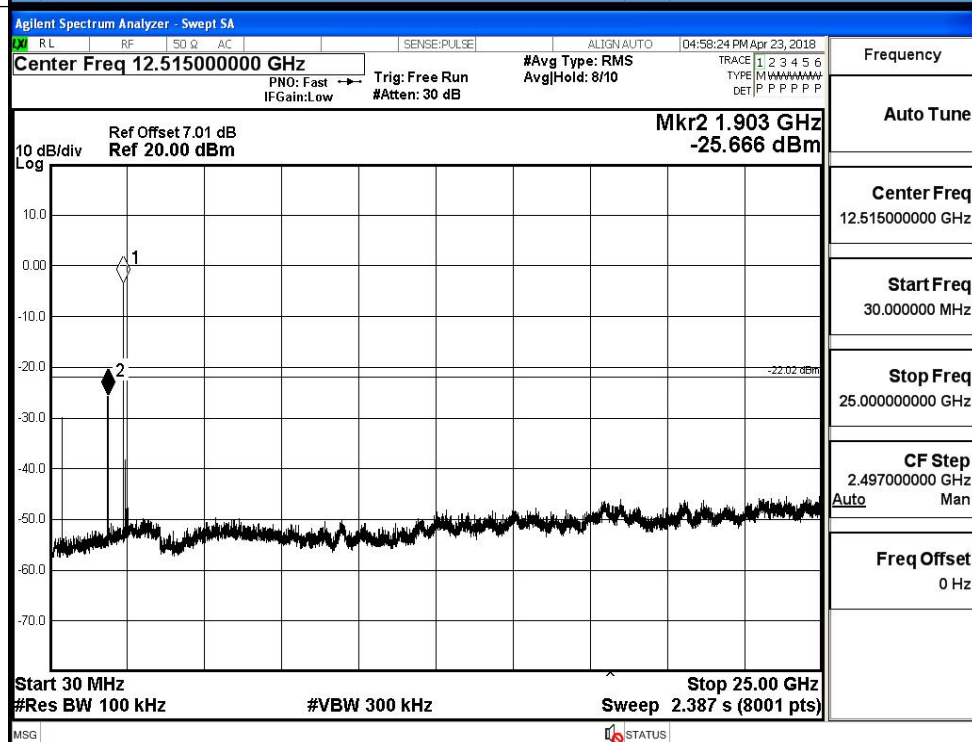
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.024	-25.666	-22.024	PASS
BT LE	MCH	0.271	-29.095	-19.729	PASS
BT LE	HCH	1.569	-27.045	-18.431	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH



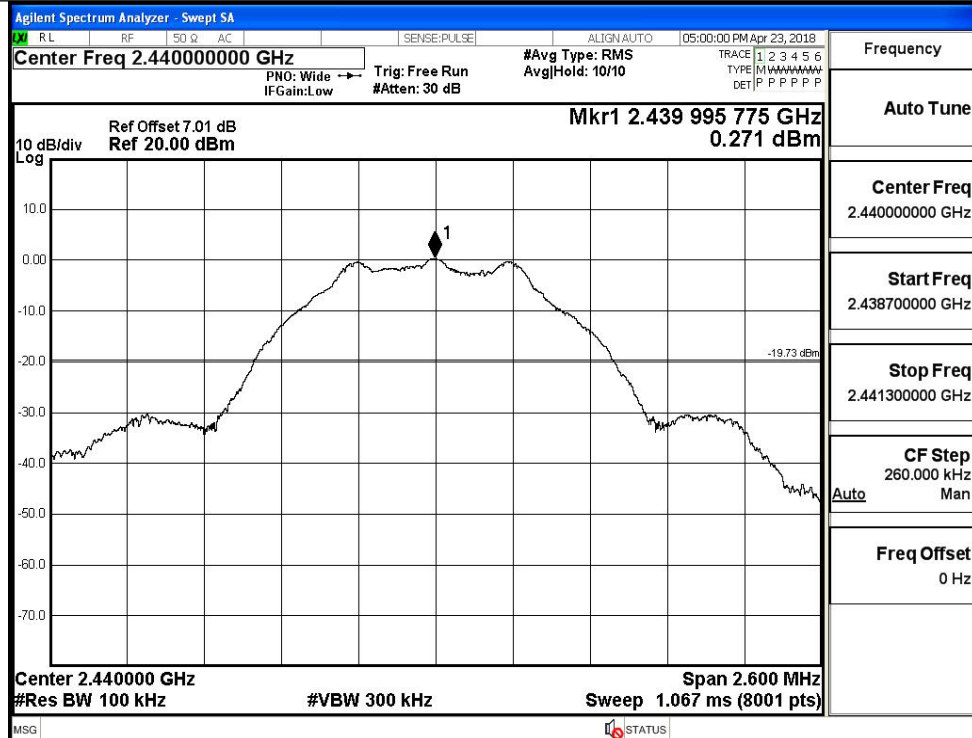
Puw/BT LE/LCH



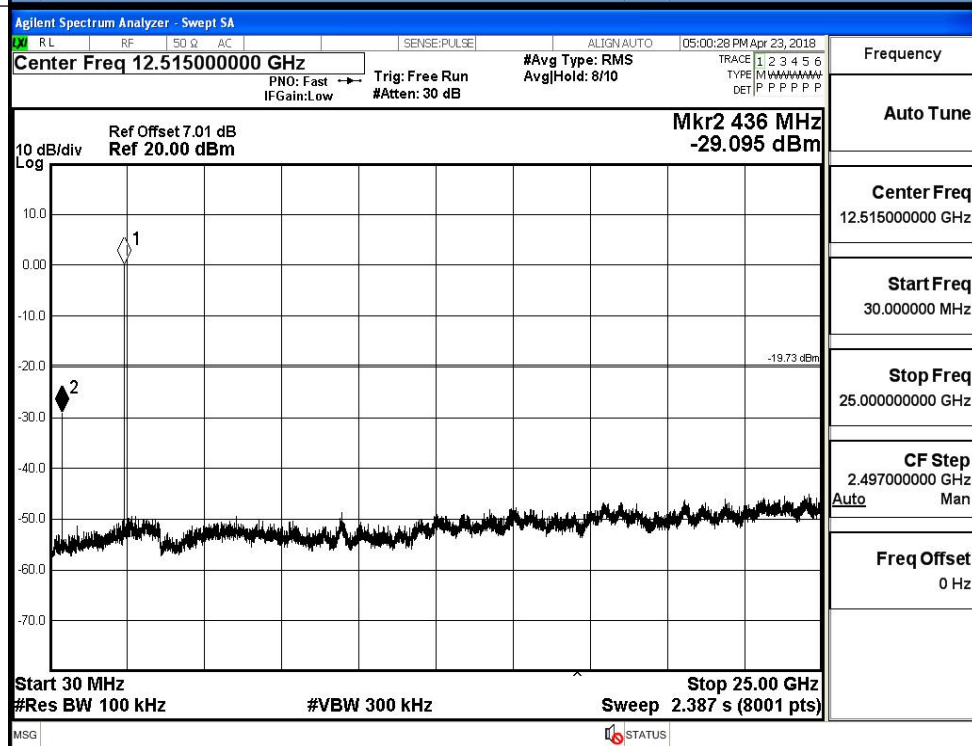
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BT LE MCH Graphs

Pref/BT LE/MCH

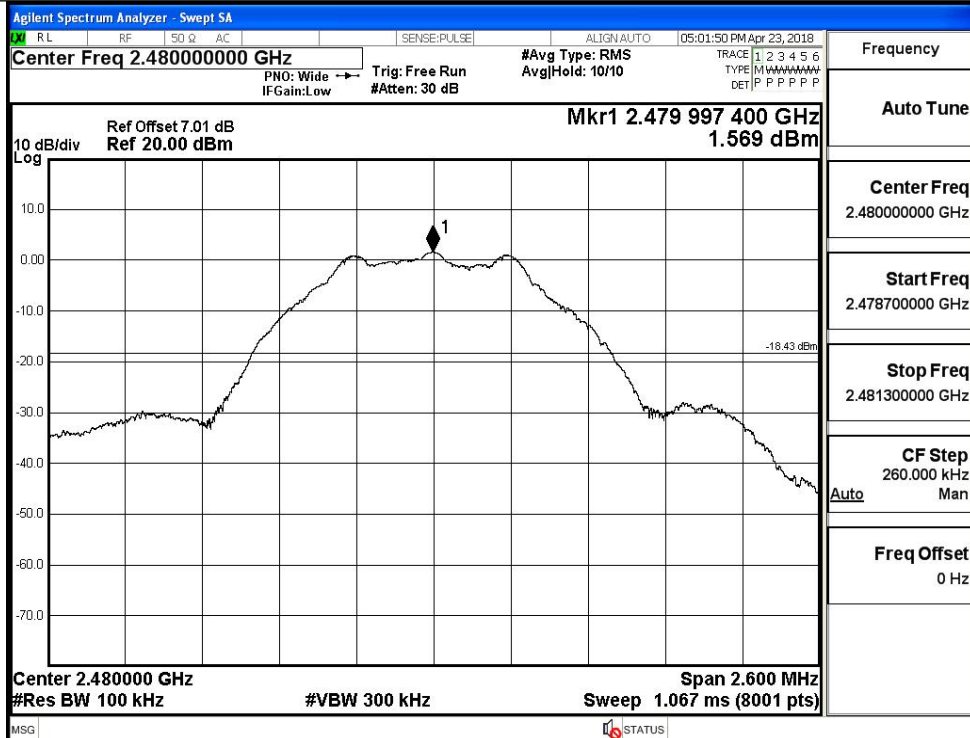


Puw/BT LE/MCH

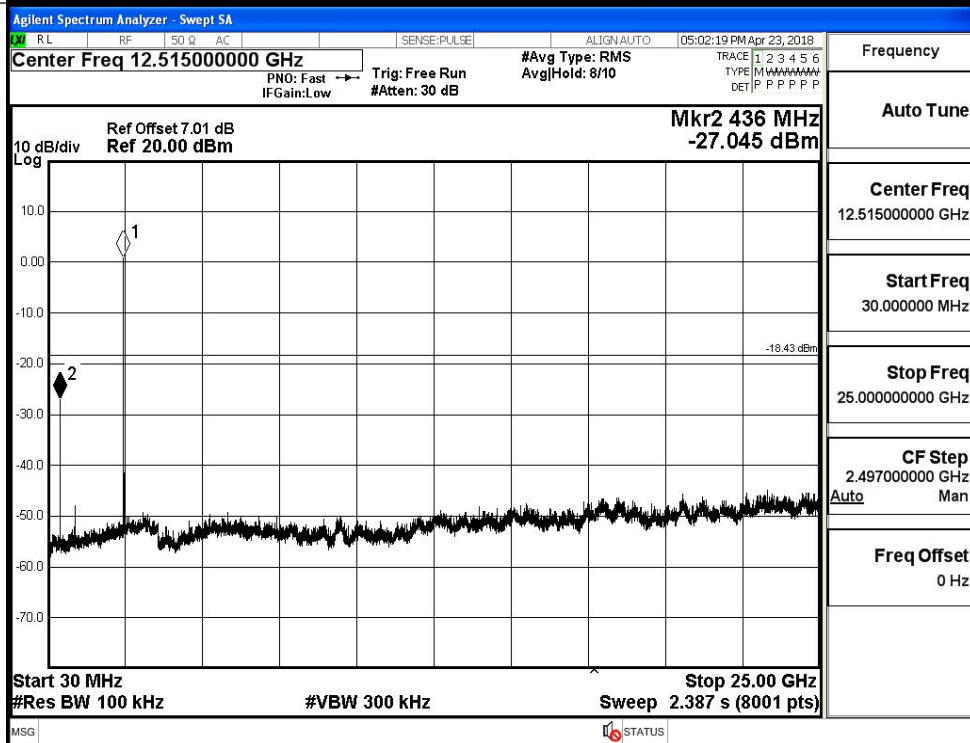


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

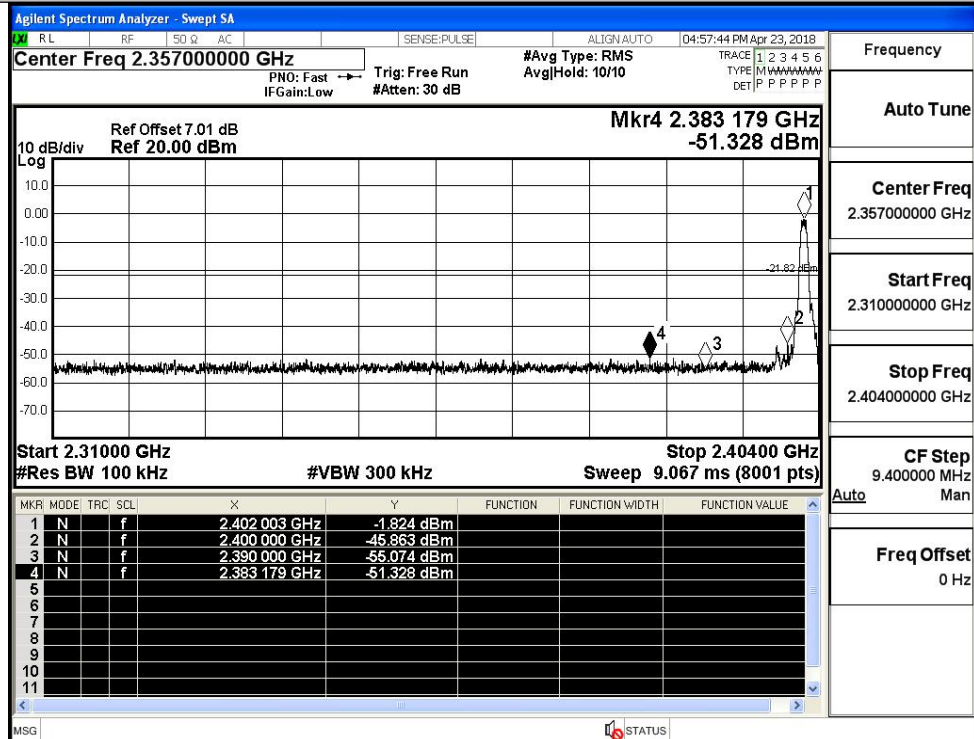


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.824	-51.328	-21.82	PASS
BT LE	HCH	1.681	-49.758	-18.32	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

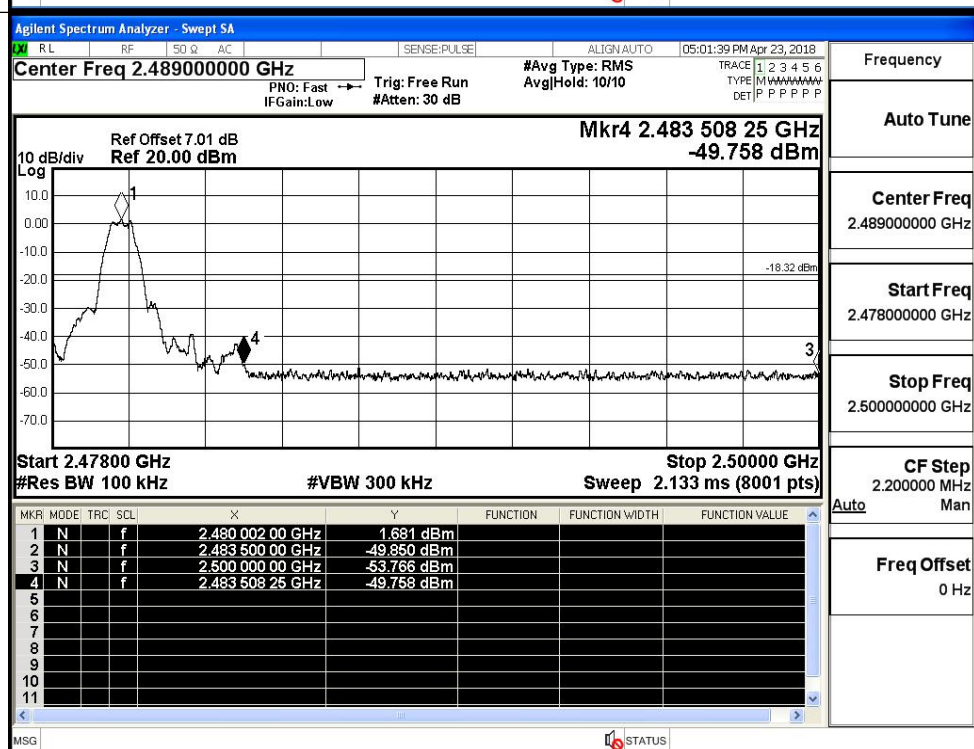
9.400000 MHz

Auto Man

Freq Offset

0 Hz

HCH



Frequency

Auto Tune

Center Freq

2.489000000 GHz

Start Freq

2.478000000 GHz

Stop Freq

2.500000000 GHz

CF Step

2.200000 MHz

Auto Man

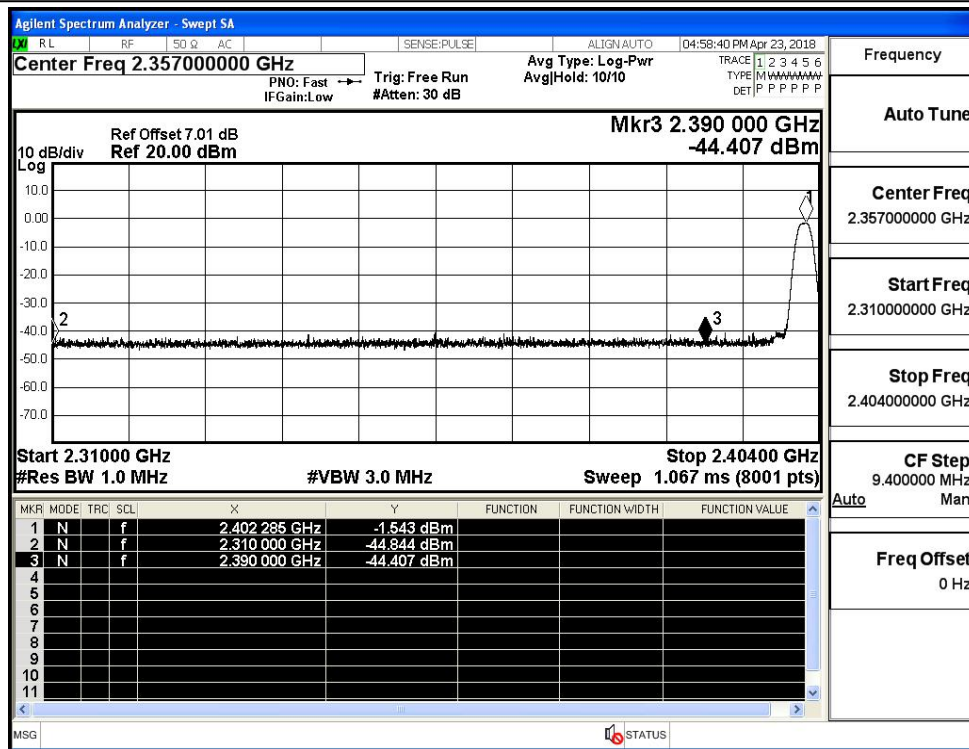
Freq Offset

0 Hz

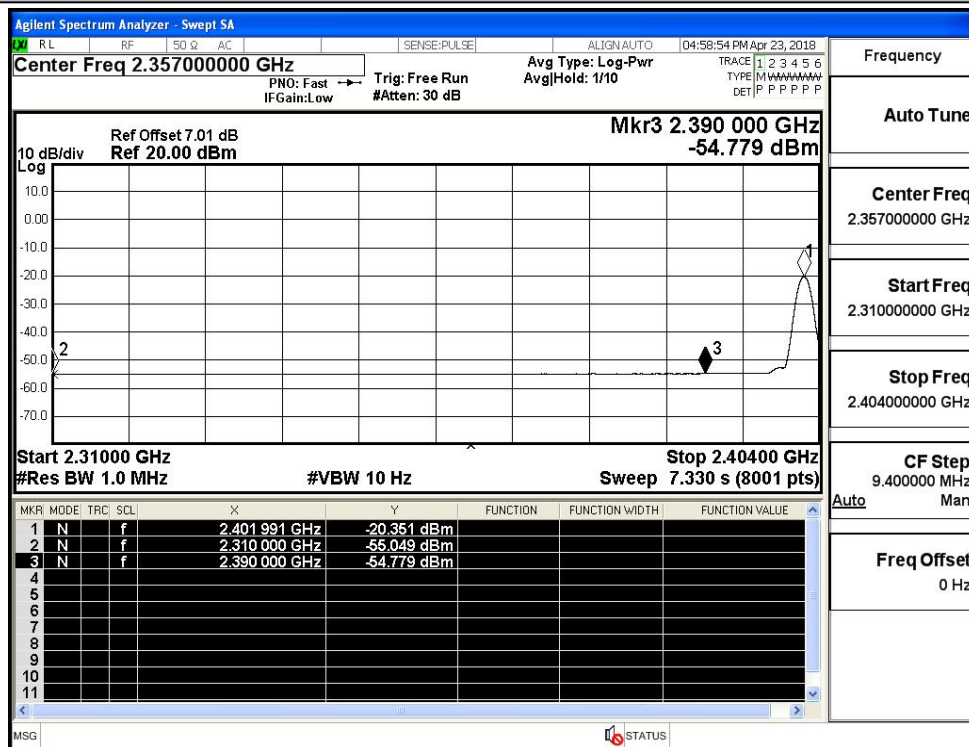
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-44.84	2.0	0	50.41	PEAK	74	PASS
		Ant1	2310.0	-55.05	2.0	0	40.21	AV	54	PASS
		Ant1	2390.0	-44.41	2.0	0	50.85	PEAK	74	PASS
		Ant1	2390.0	-54.78	2.0	0	40.48	AV	54	PASS
	2480	Ant1	2483.5	-38.43	2.0	0	56.82	PEAK	74	PASS
		Ant1	2483.5	-51.70	2.0	0	43.56	AV	54	PASS
		Ant1	2500.0	-44.66	2.0	0	50.59	PEAK	74	PASS
		Ant1	2500.0	-54.34	2.0	0	40.92	AV	54	PASS

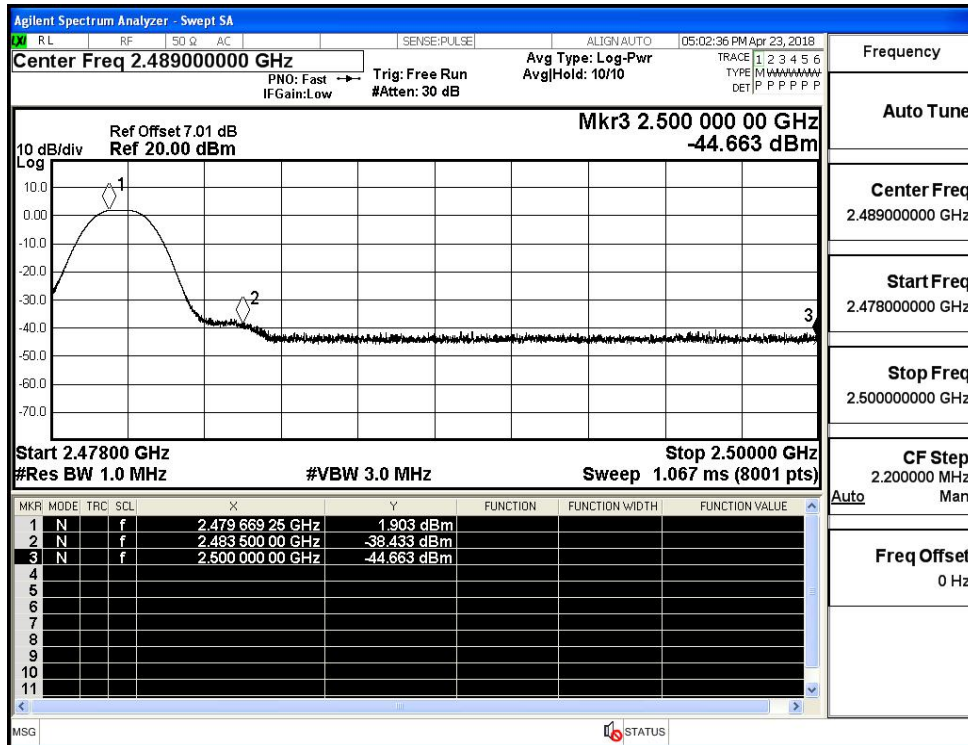
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BT LE_2480_Ant1_AV

