

Appendix B

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth audio receiver

Trade Mark: N/A

Test Model: HT-06A

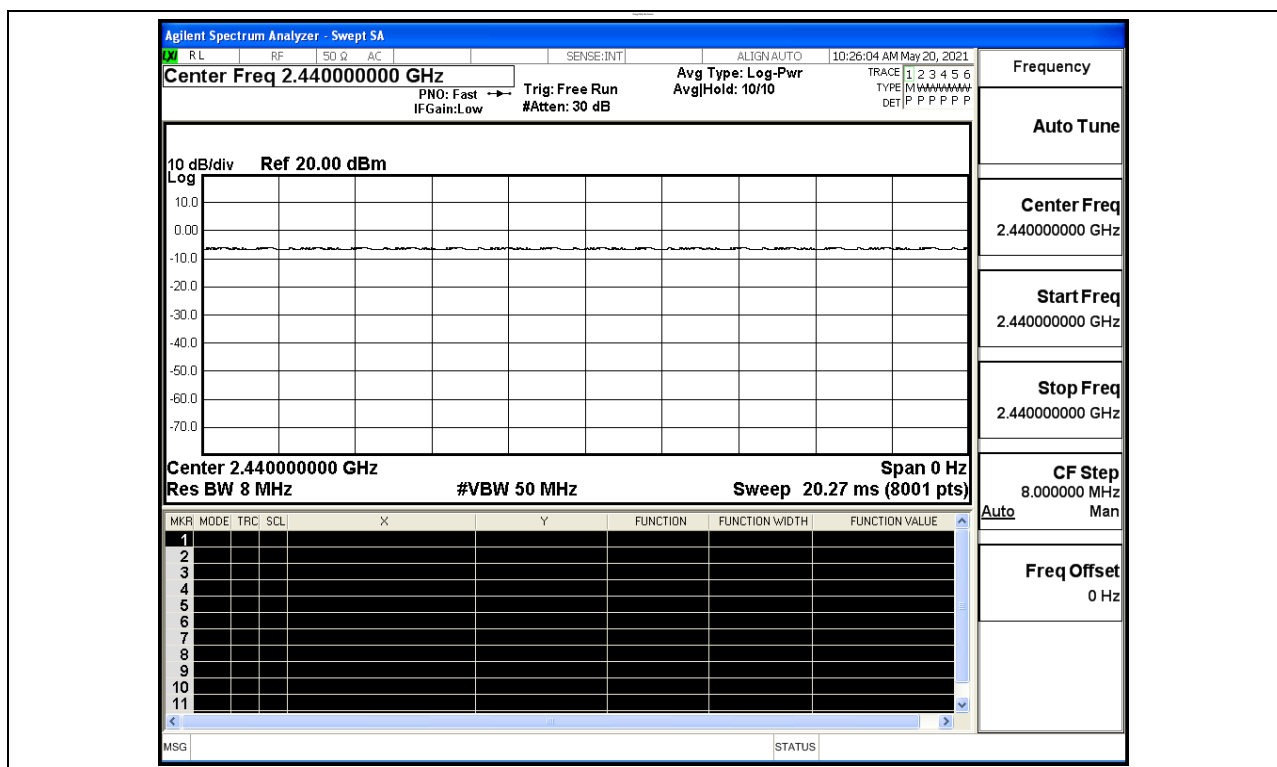
Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

B.1 Duty Cycle

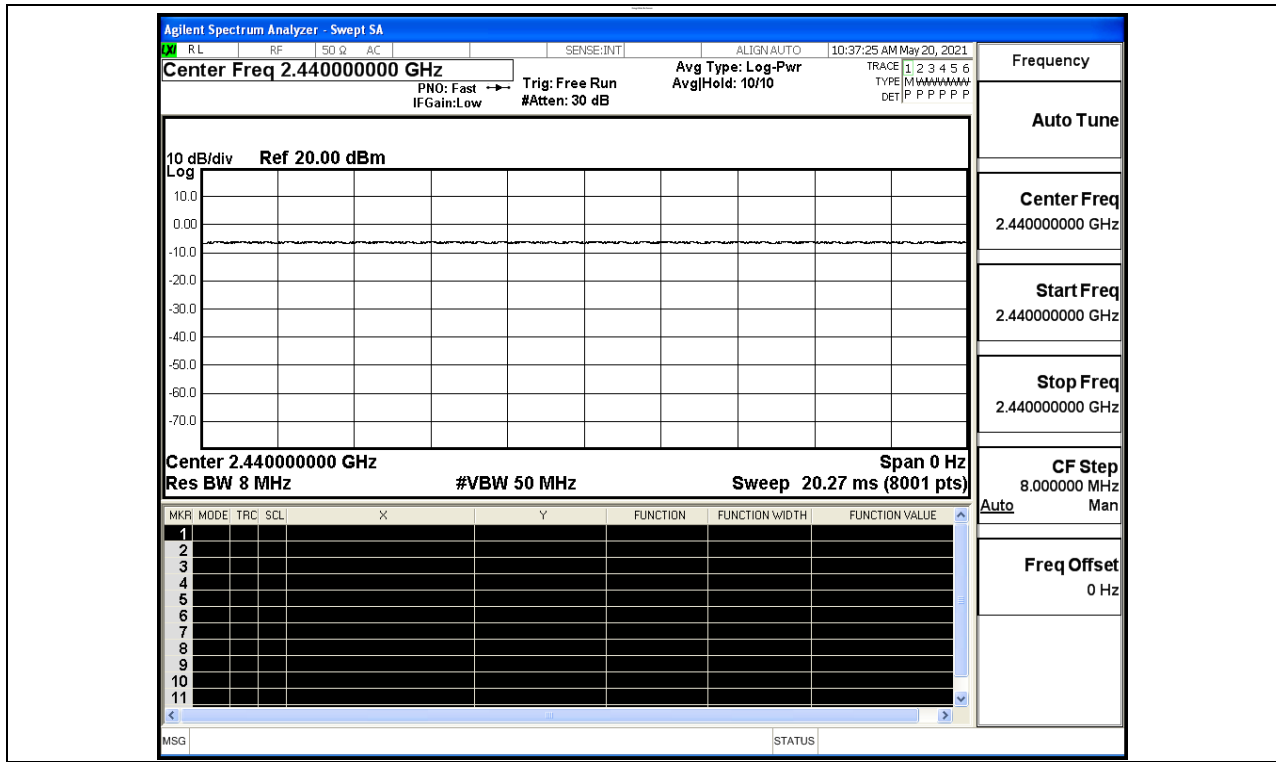
BT LE

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



BT 2LE

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



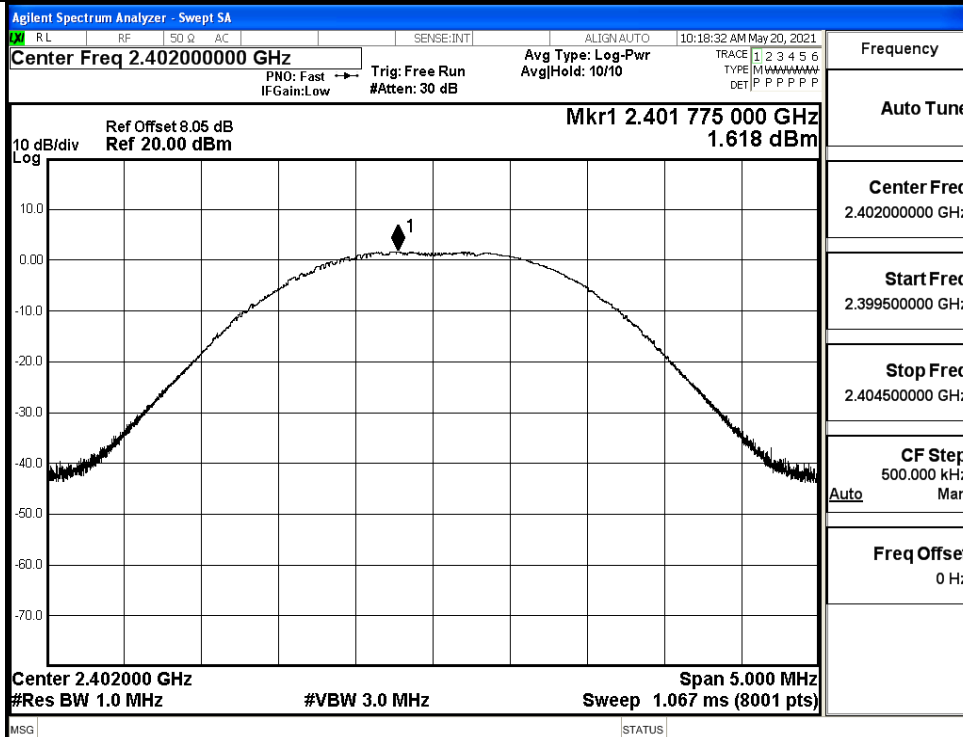
B.2 Maximum Conducted Peak Output Power

BT LE

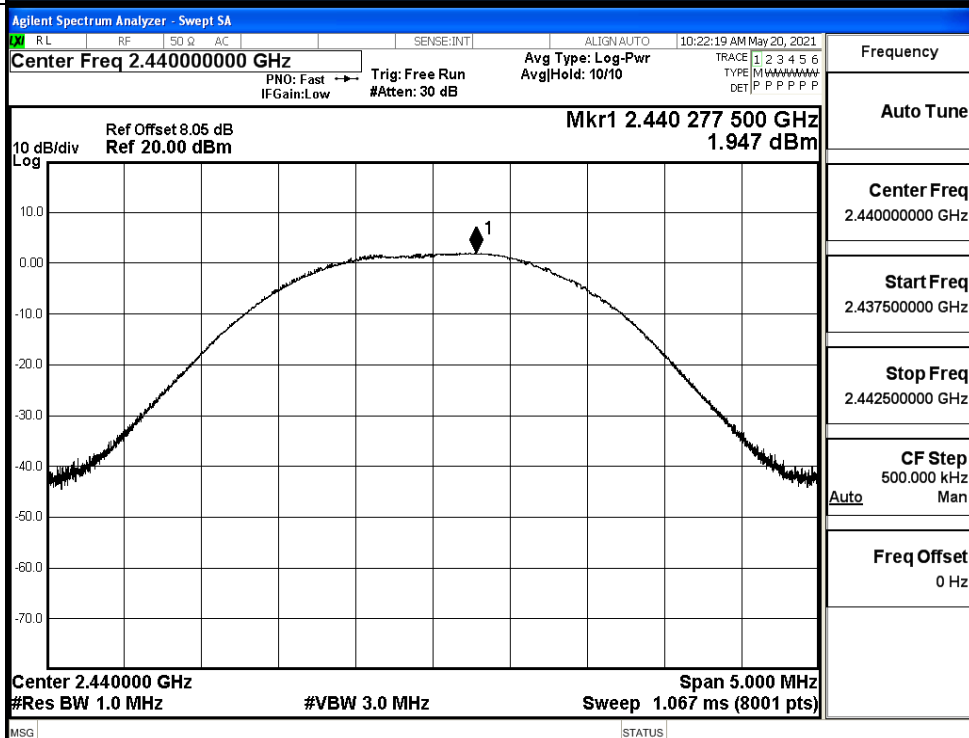
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.618	30	PASS
BT LE	MCH	1.947	30	PASS
BT LE	HCH	2.408	30	PASS

Test Graphs

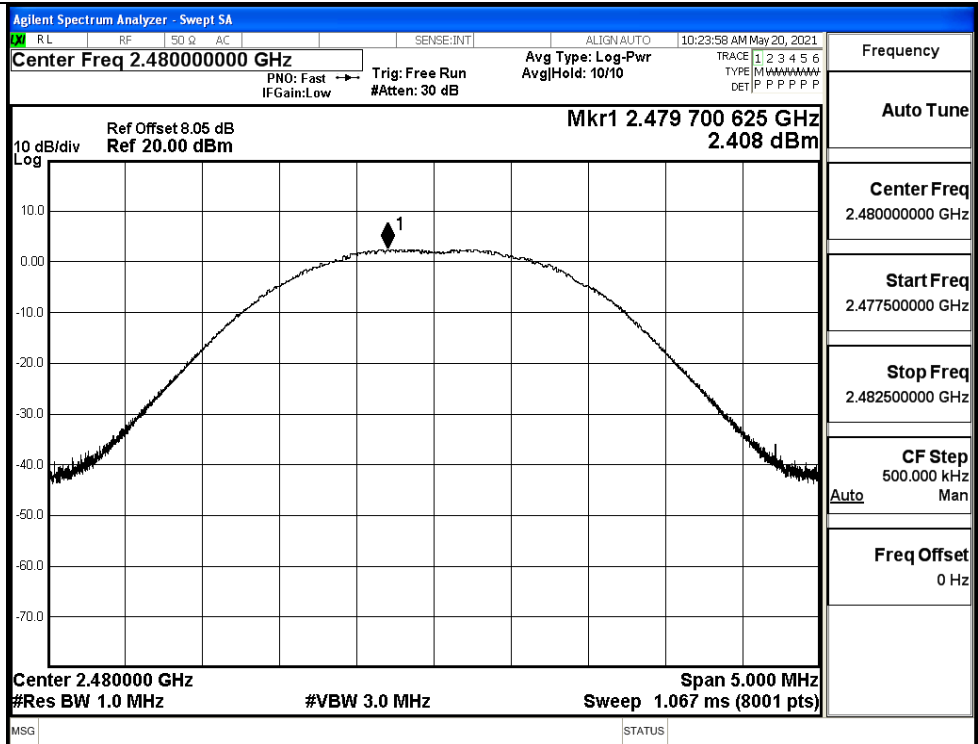
LCH



MCH



HCH

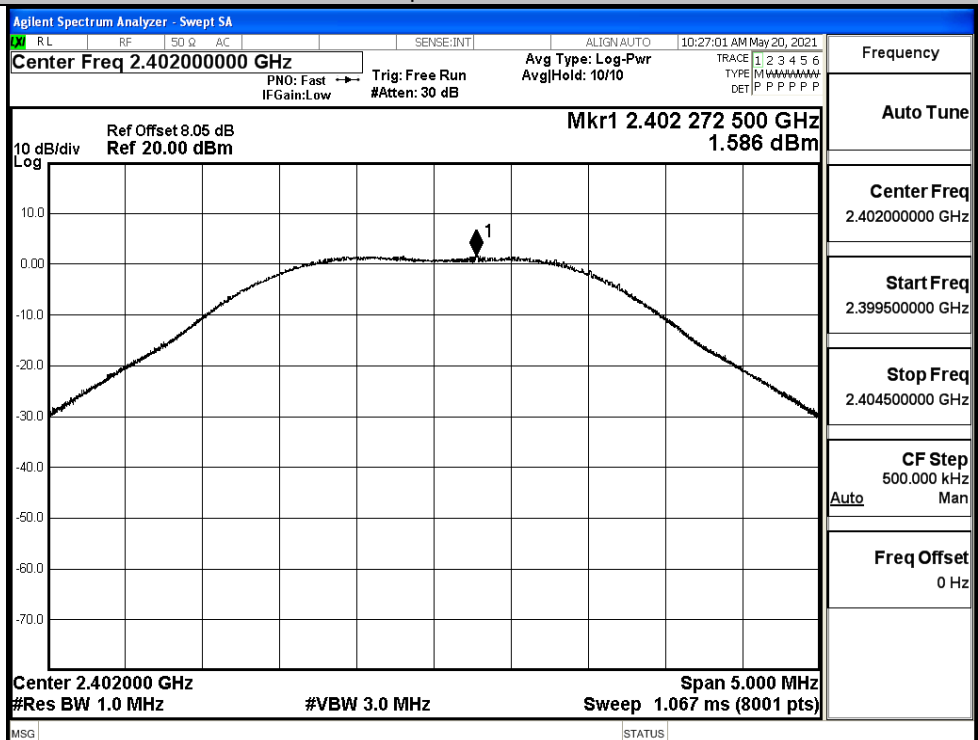


BT 2LE

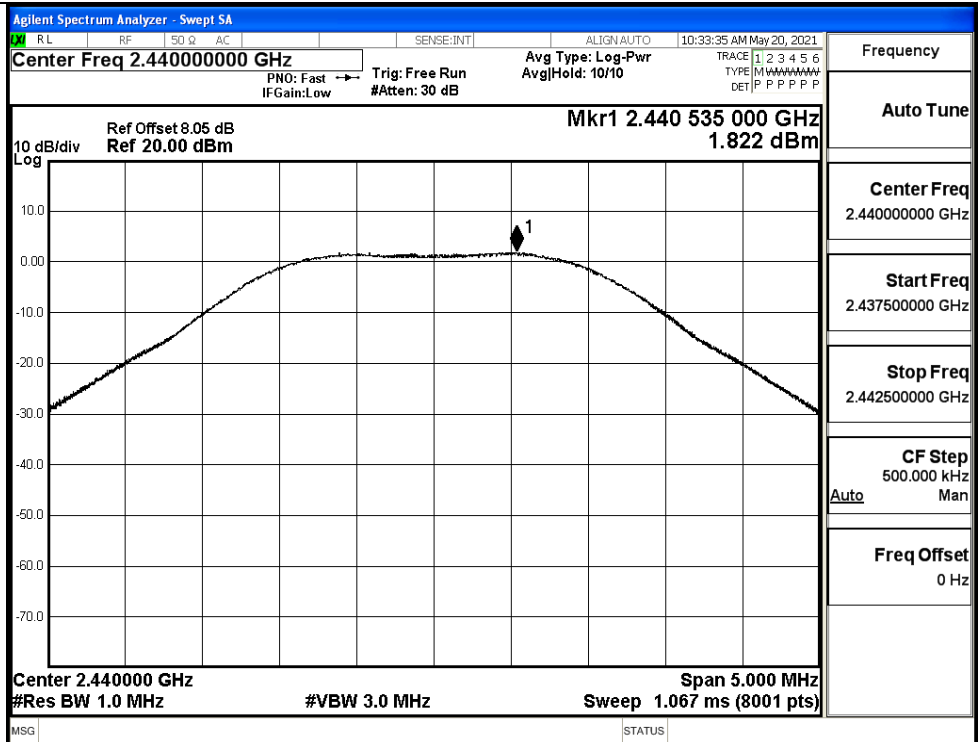
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.586	30	PASS
BT LE	MCH	1.822	30	PASS
BT LE	HCH	2.348	30	PASS

Test Graphs

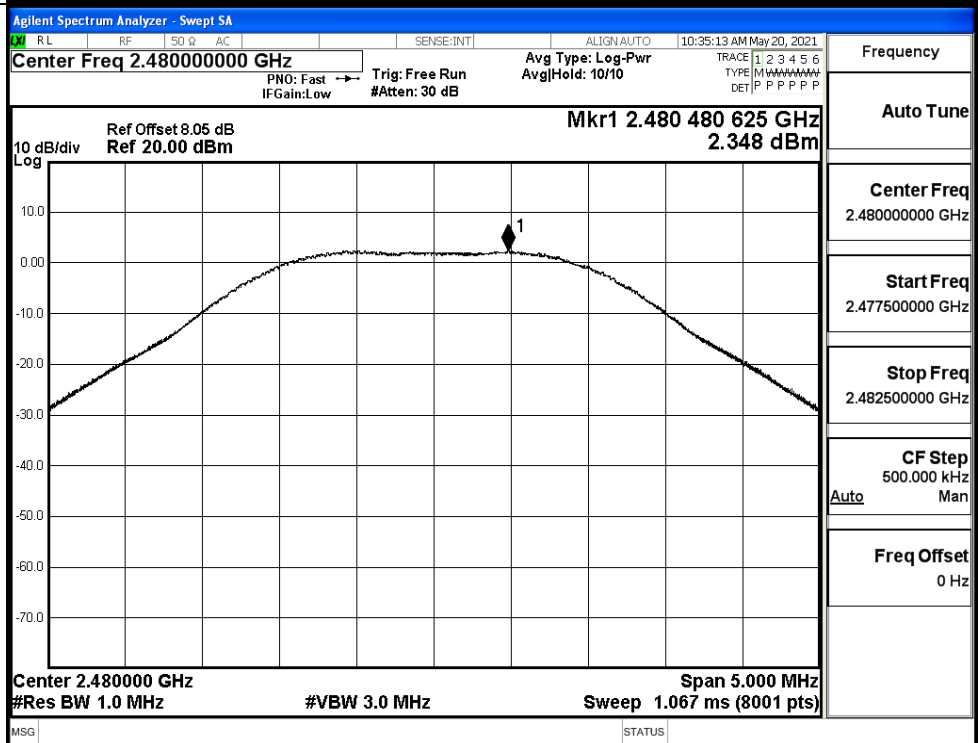
LCH



MCH



HCH



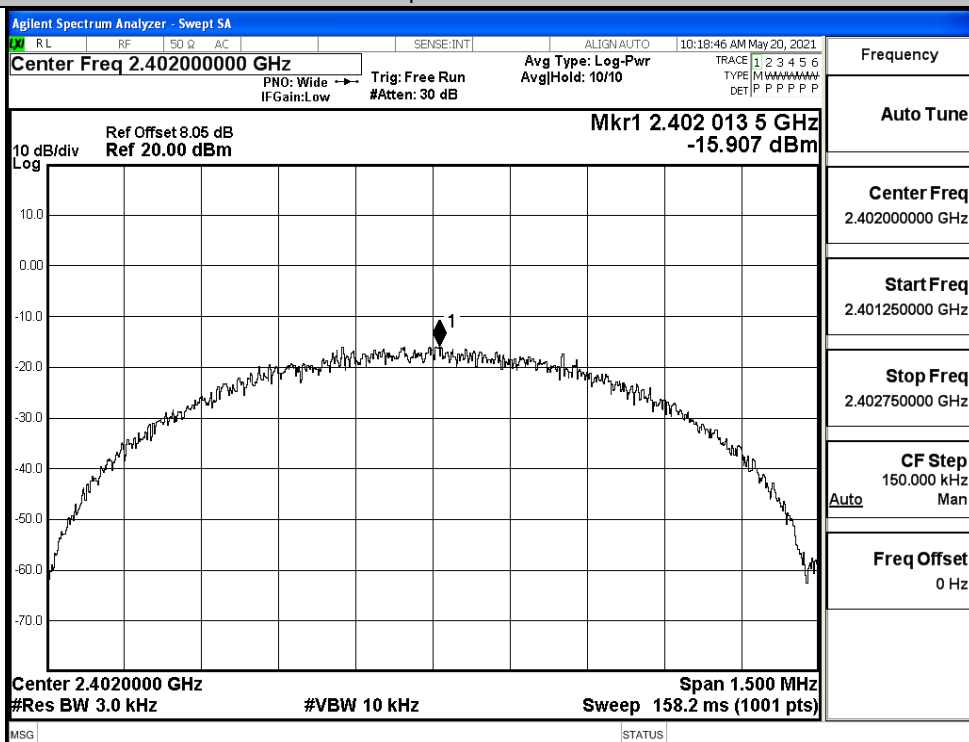
B.3 Maximum Power Spectral Density

BT LE

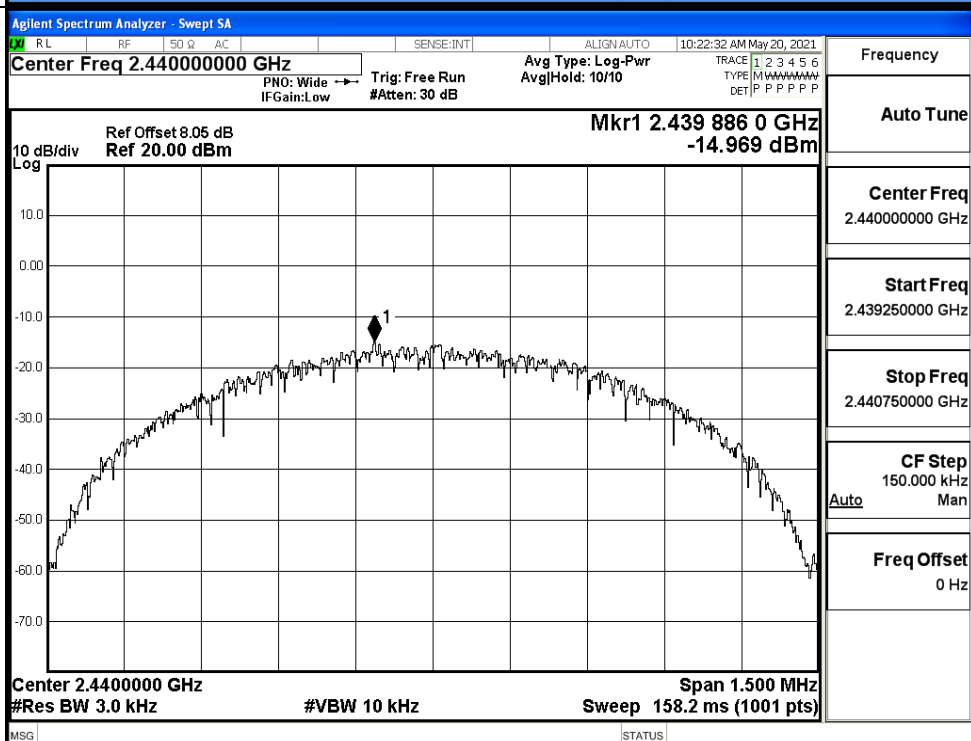
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-15.907	8	PASS
BT LE	MCH	-14.969	8	PASS
BT LE	HCH	-14.494	8	PASS

Test Graphs

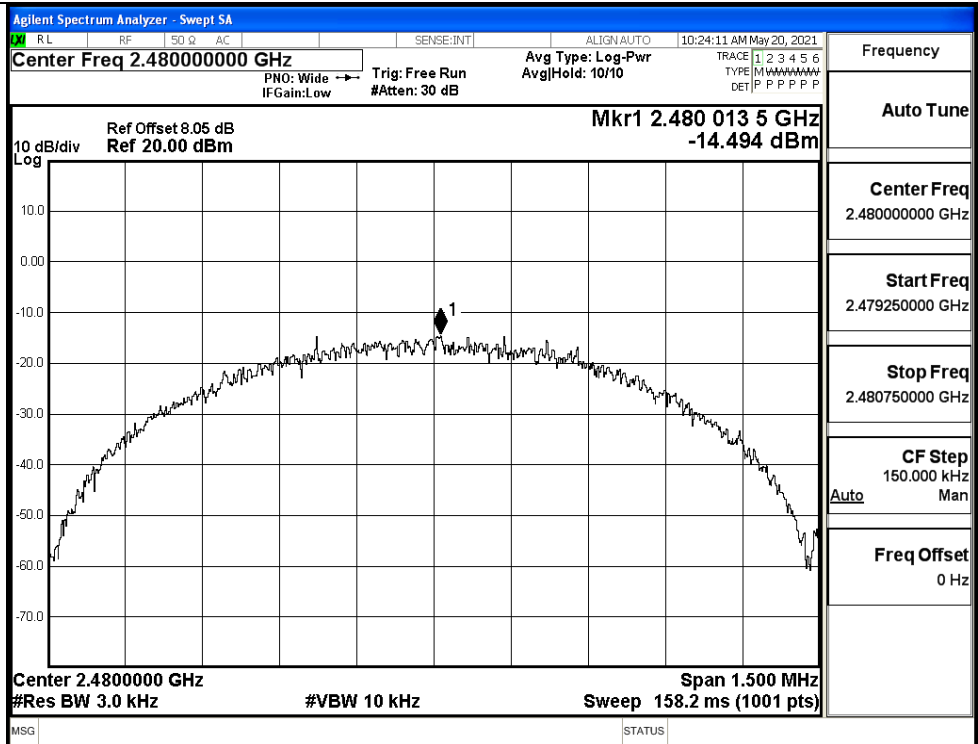
LCH



MCH



HCH

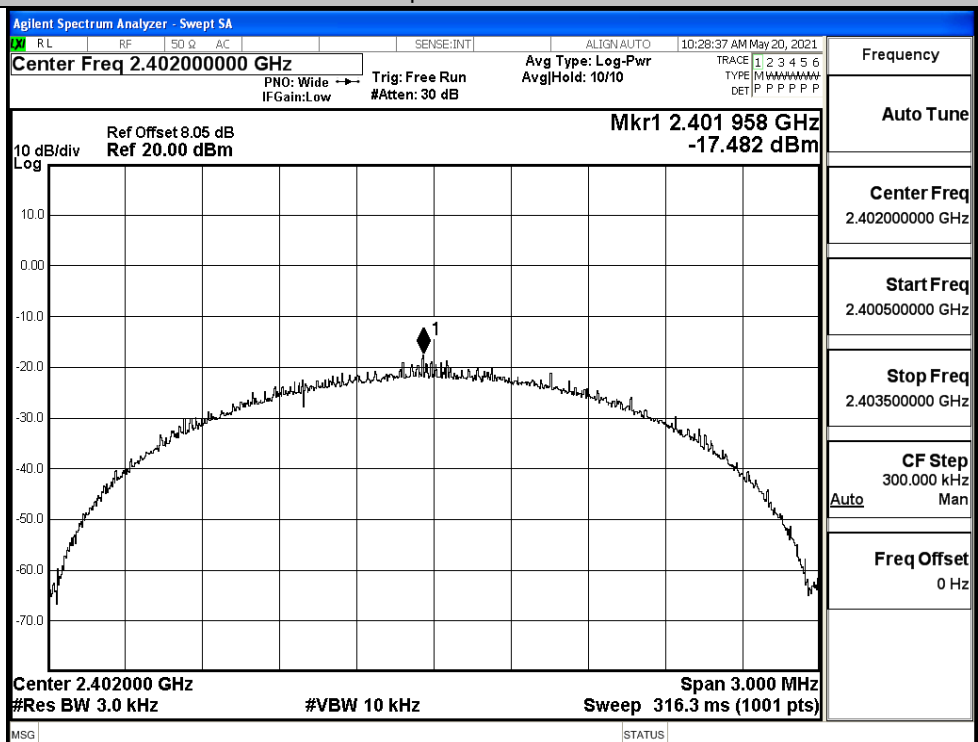


BT 2LE

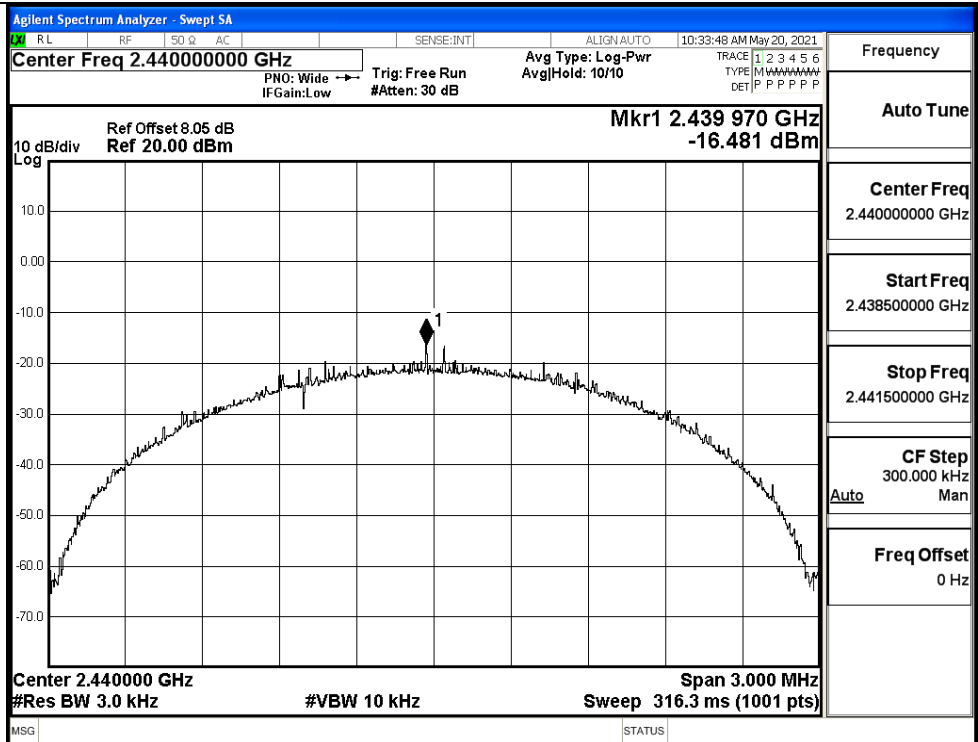
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.482	8	PASS
BT LE	MCH	-16.481	8	PASS
BT LE	HCH	-16.468	8	PASS

Test Graphs

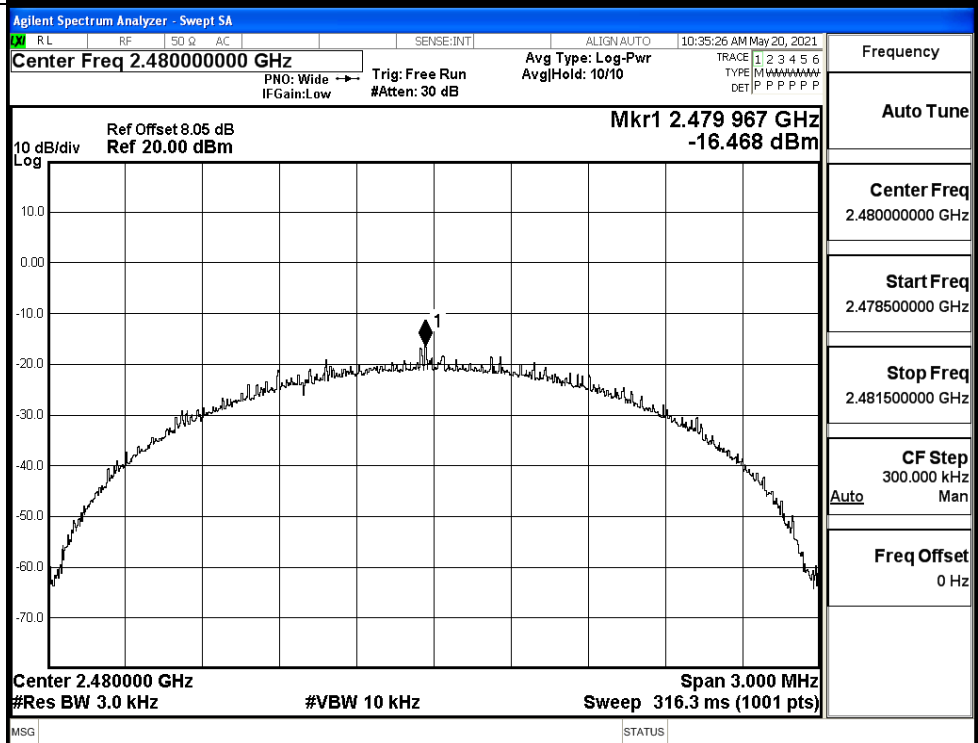
LCH



MCH



HCH



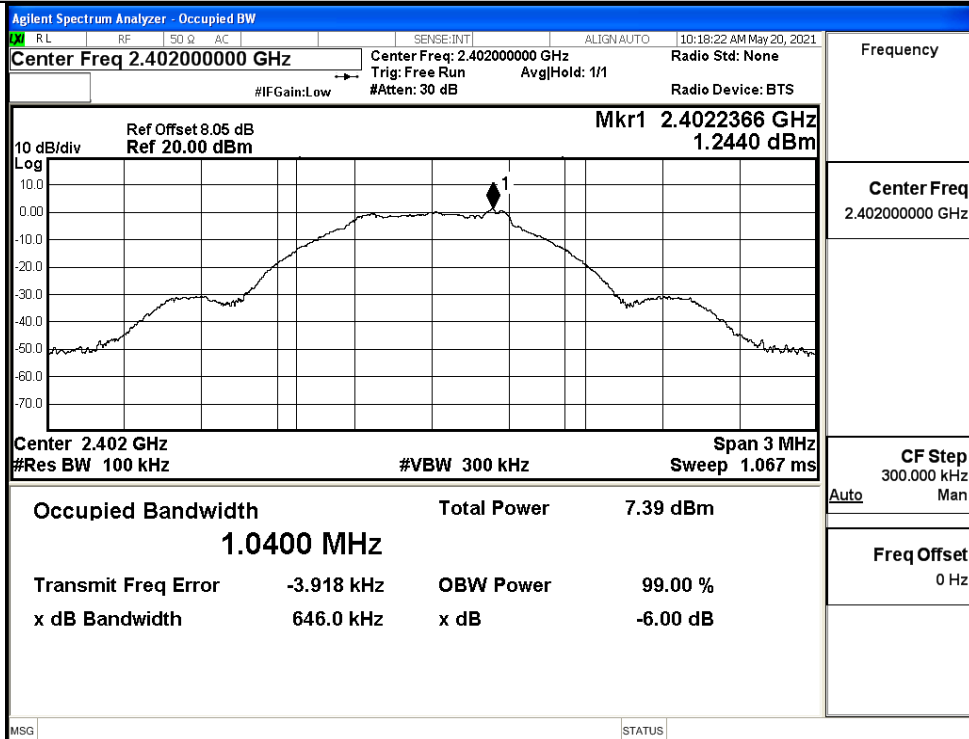
B.4 6dB Bandwidth

BT LE

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6460	≥ 0.5	PASS
BT LE	MCH	0.6899	≥ 0.5	PASS
BT LE	HCH	0.6760	≥ 0.5	PASS

Test Graphs

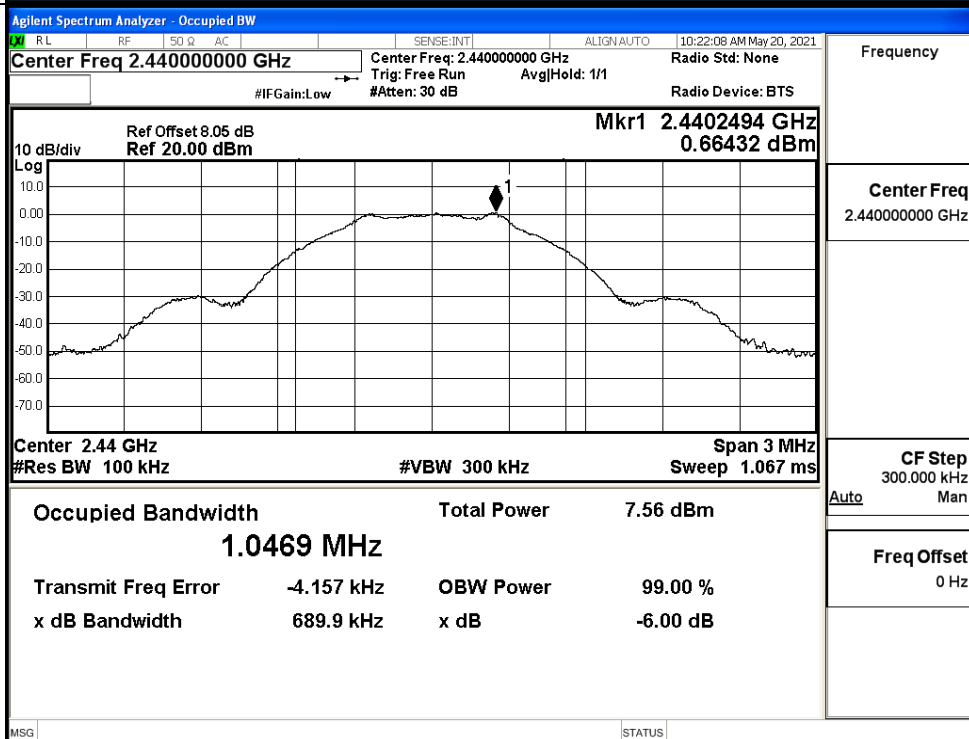
LCH



Frequency

Center Freq
2.402000000 GHzCF Step
300.000 kHz
ManFreq Offset
0 Hz

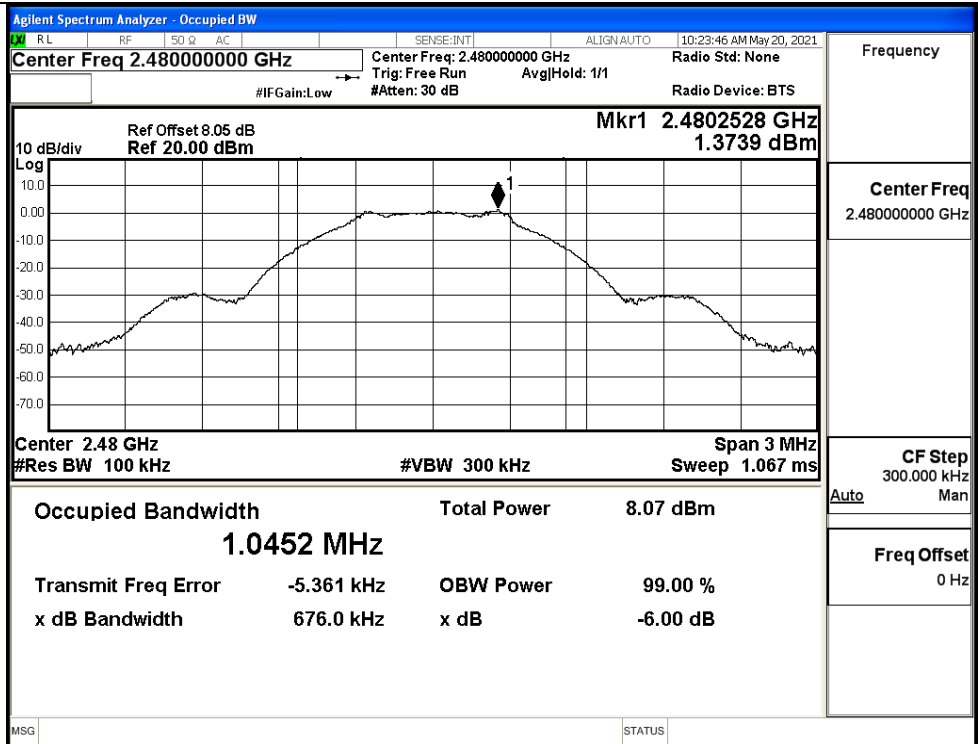
MCH



Frequency

Center Freq
2.440000000 GHzCF Step
300.000 kHz
ManFreq Offset
0 Hz

HCH

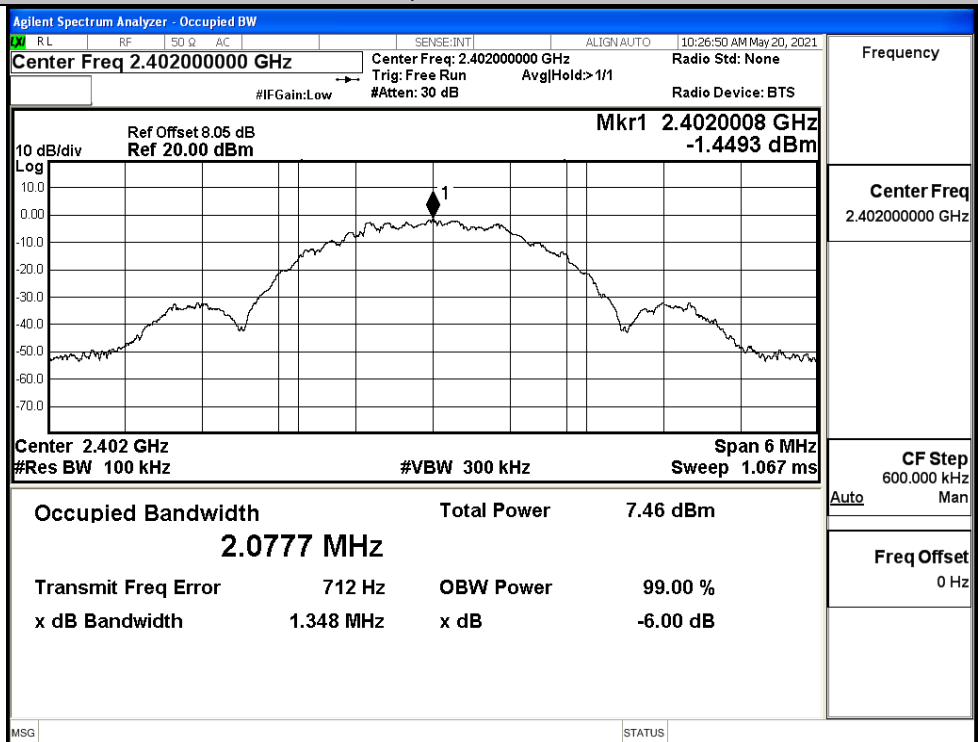


BT 2LE

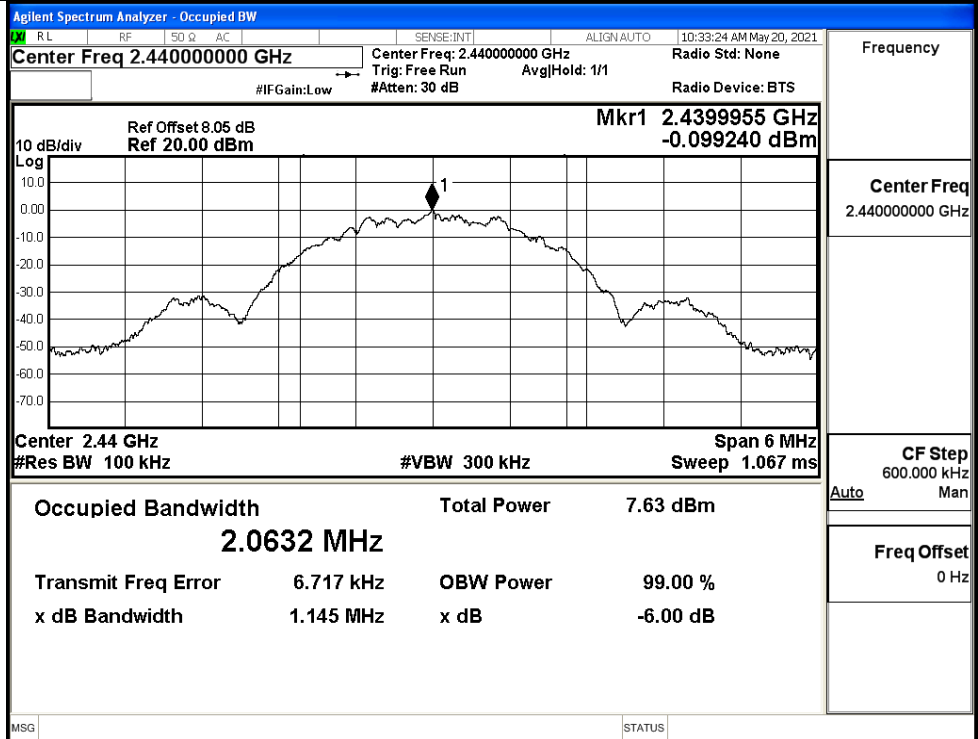
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.348	≥ 0.5	PASS
BT LE	MCH	1.145	≥ 0.5	PASS
BT LE	HCH	1.178	≥ 0.5	PASS

Test Graphs

LCH



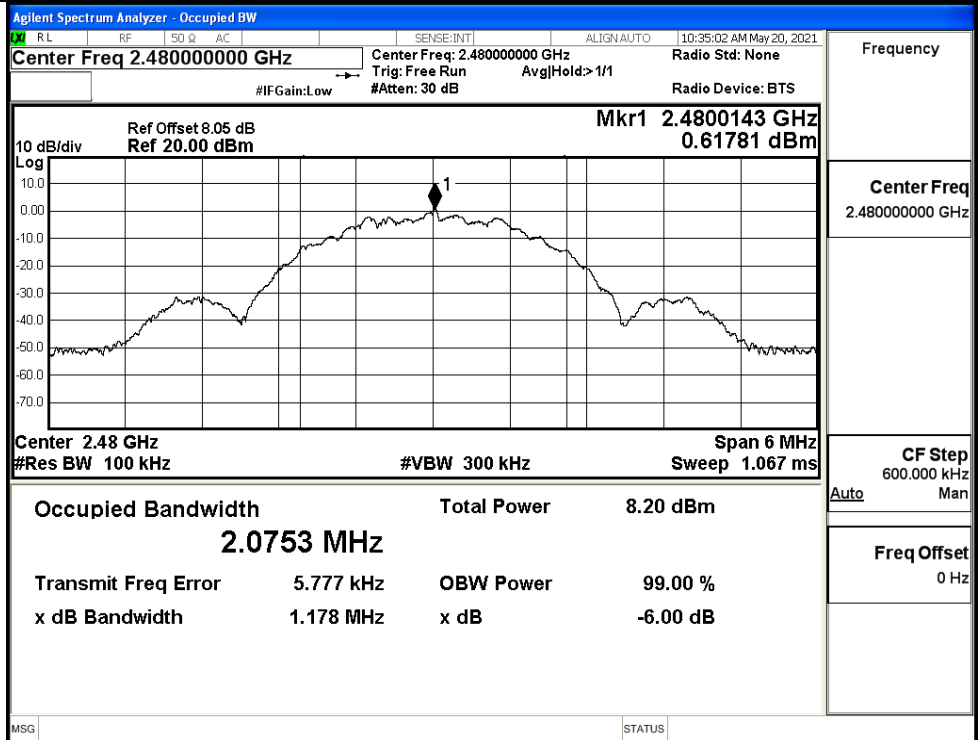
MCH



Frequency

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

HCH



Frequency

Center Freq
2.480000000 GHzCF Step
600.000 kHz
Auto ManFreq Offset
0 Hz

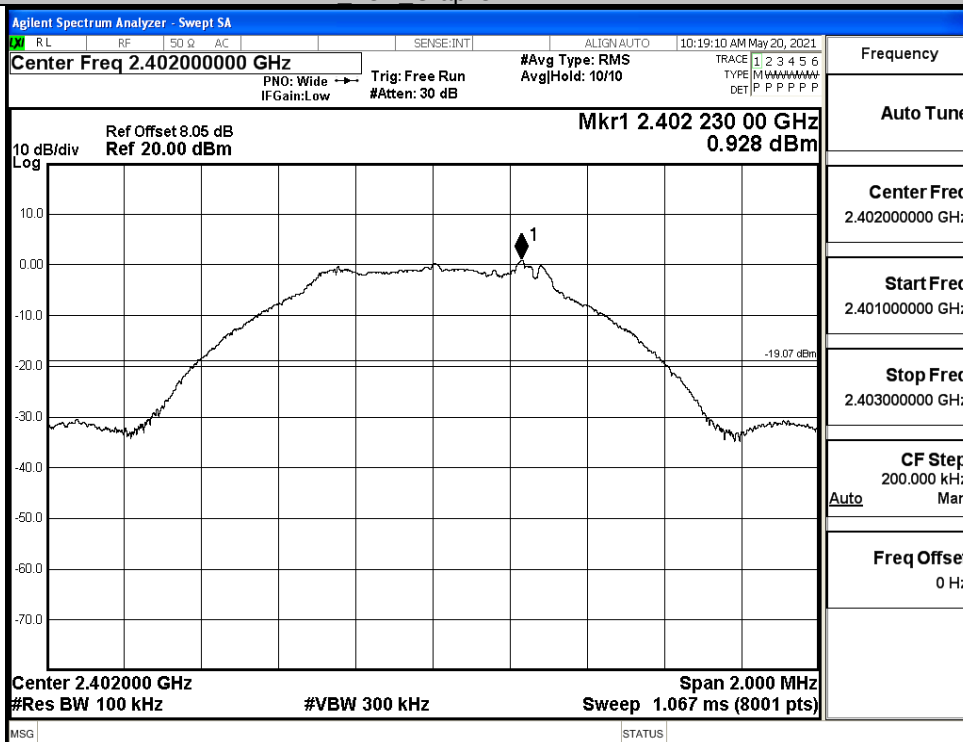
B.6 RF Conducted Spurious Emissions

BT LE

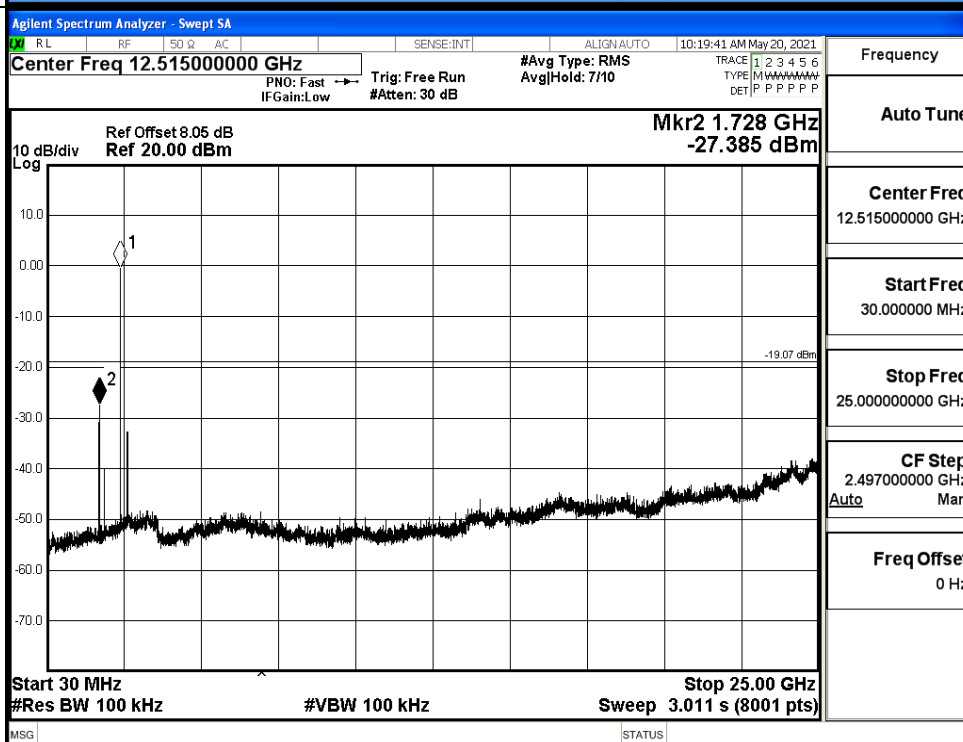
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.928	-27.385	-19.072	PASS
BT LE	MCH	0.664	-37.286	-19.336	PASS
BT LE	HCH	1.425	-37.374	-18.575	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

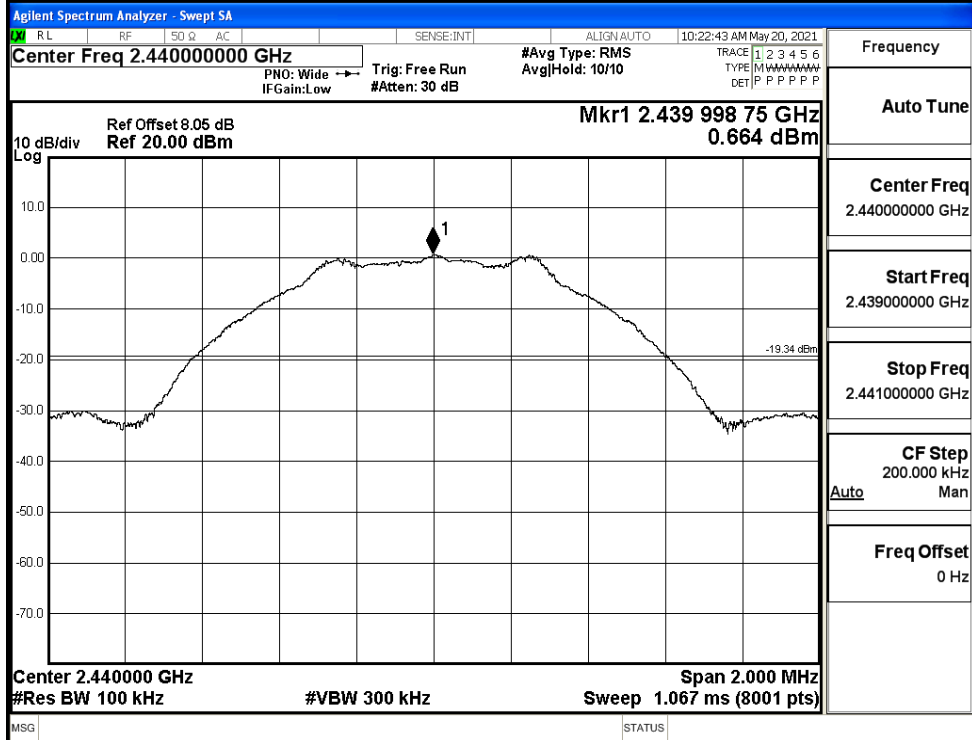


Puw/BT LE/LCH

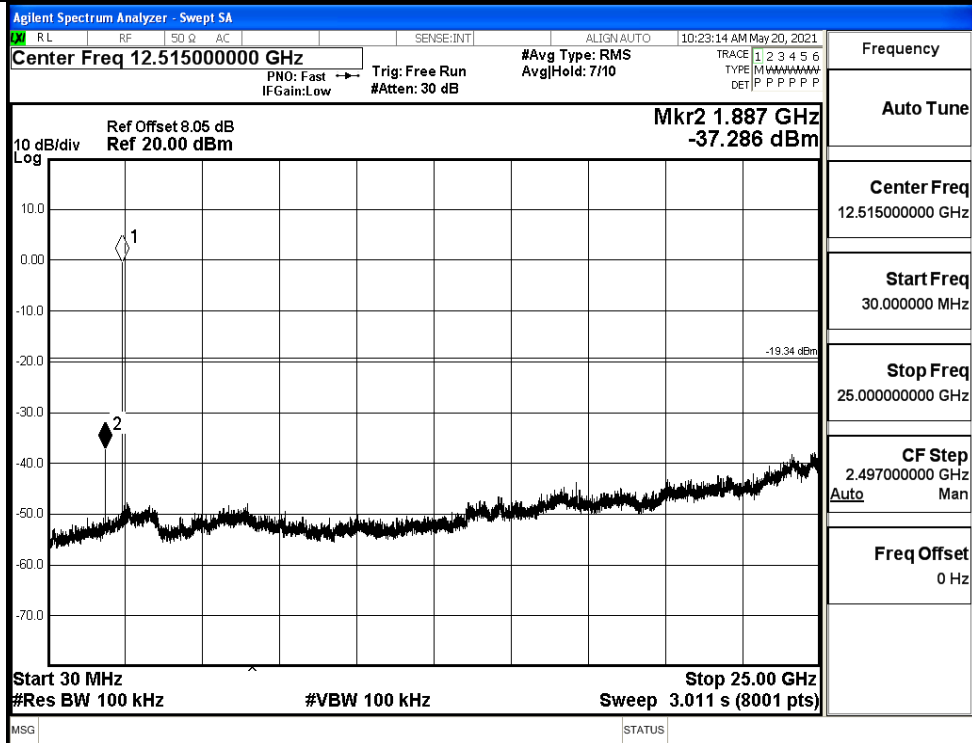


BT LE MCH Graphs

Pref/BT LE/MCH

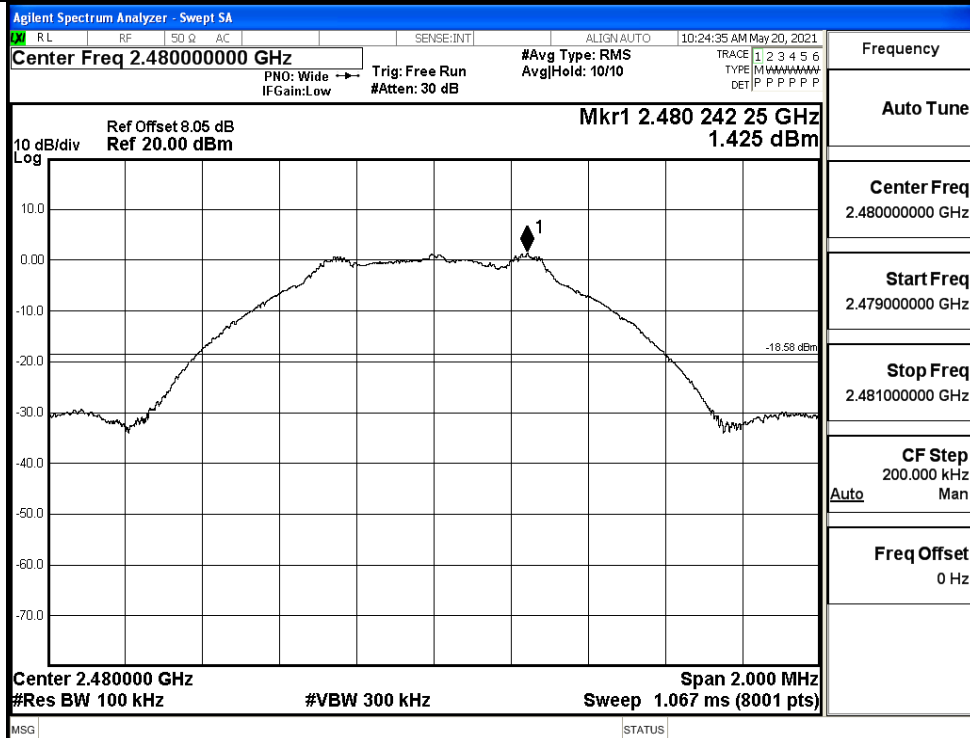


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

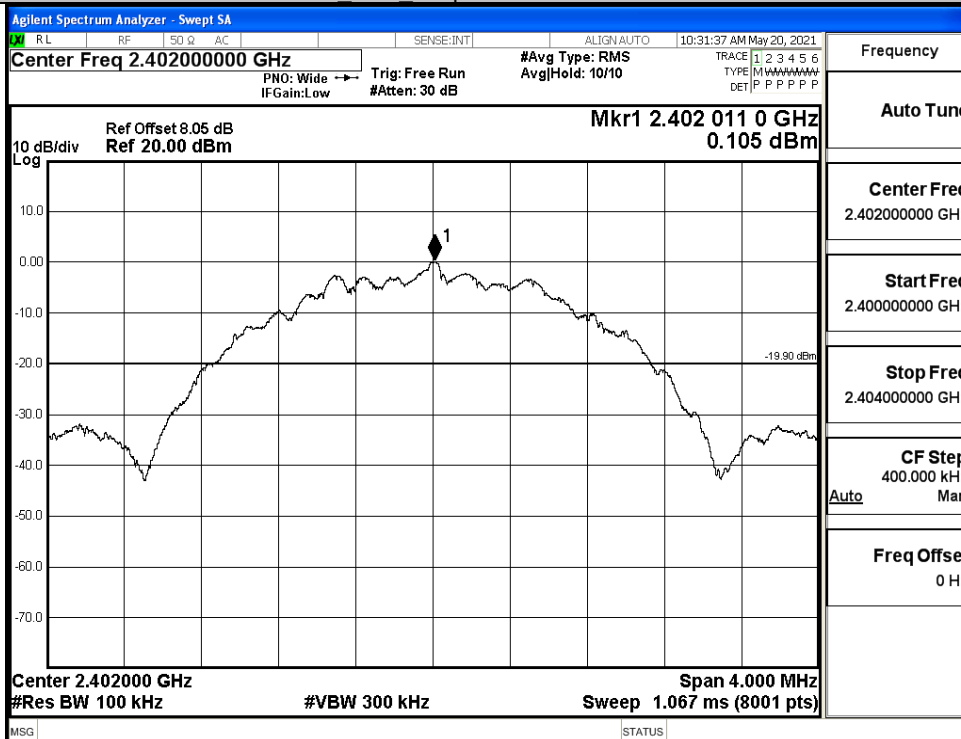


BT 2LE

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.105	-37.404	-19.895	PASS
BT LE	MCH	0.509	-35.177	-19.491	PASS
BT LE	HCH	1.134	-37.961	-18.866	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

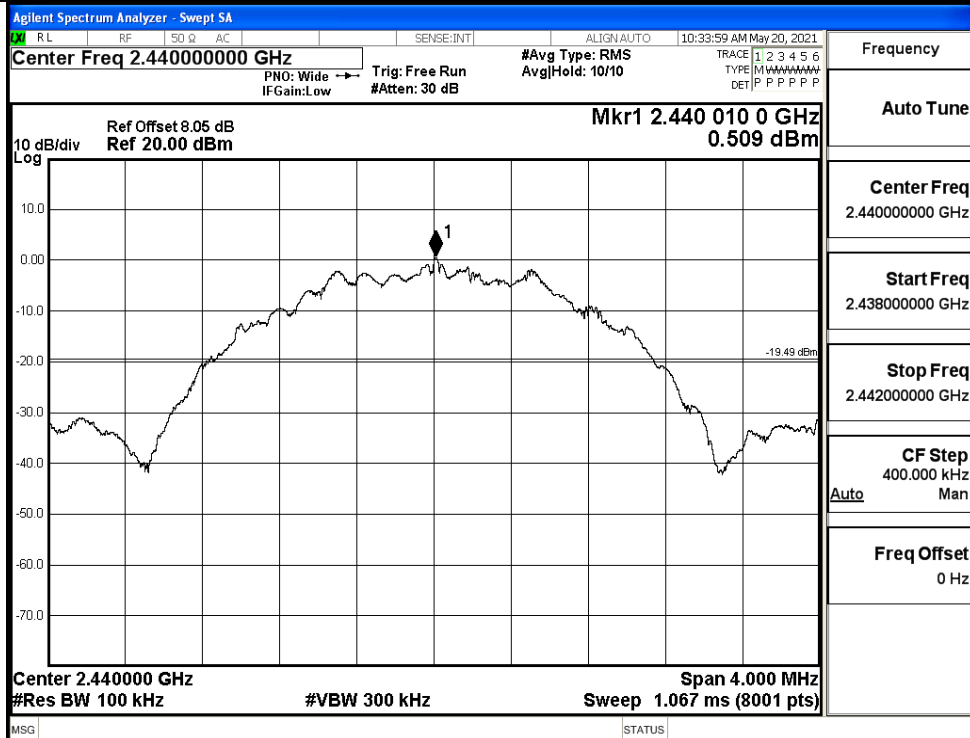


Puw/BT LE/LCH

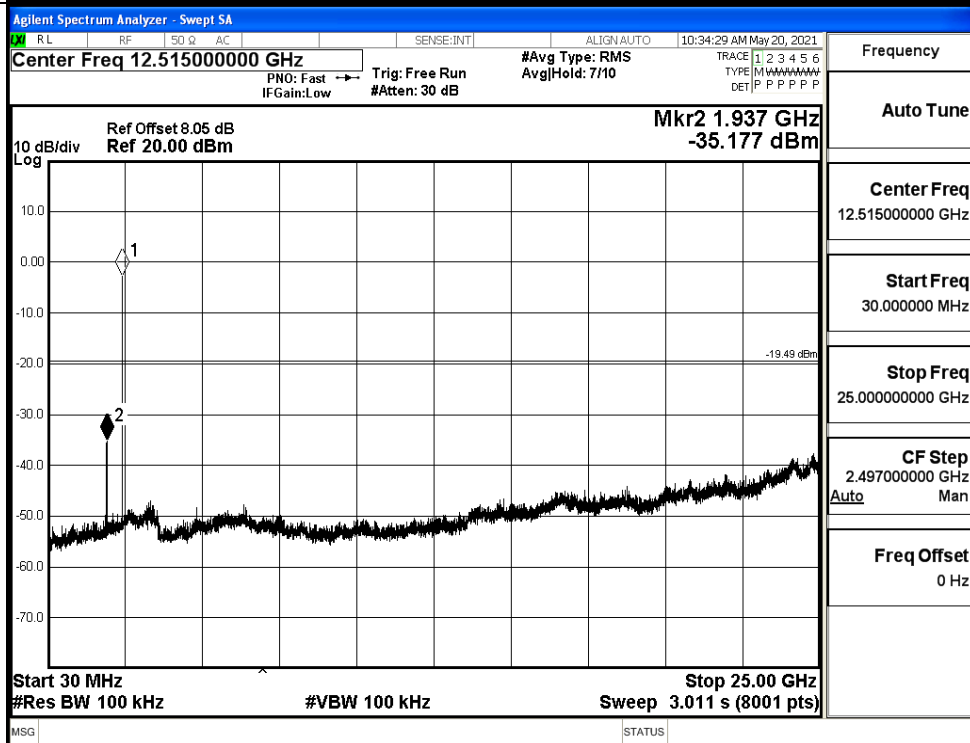


BT LE MCH Graphs

Pref/BT LE/MCH

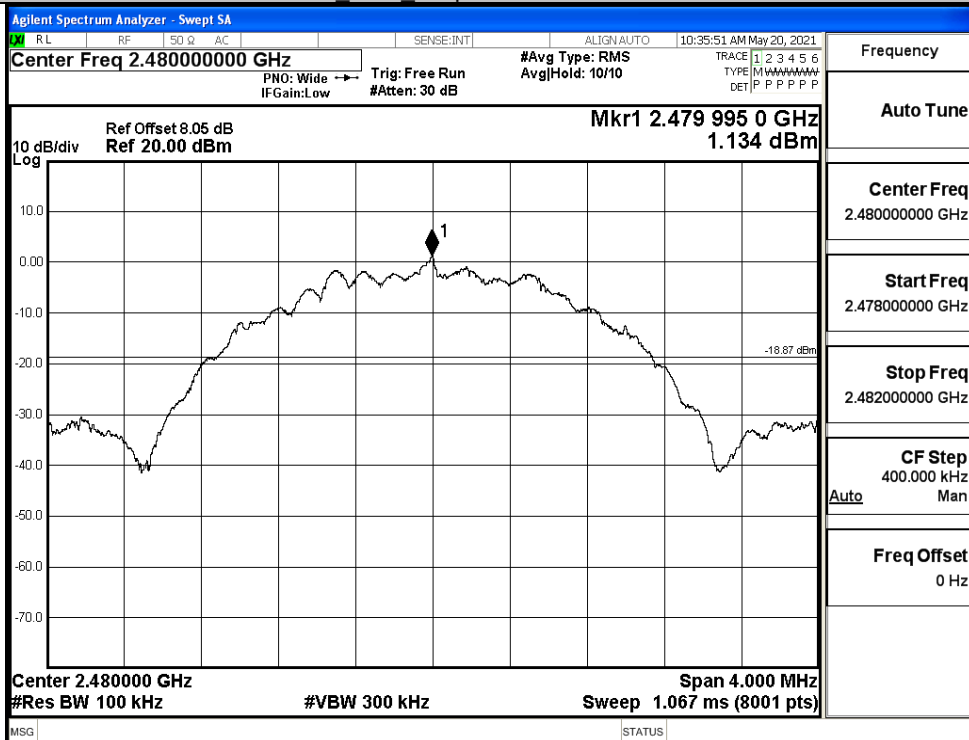


Puw/BT LE/MCH

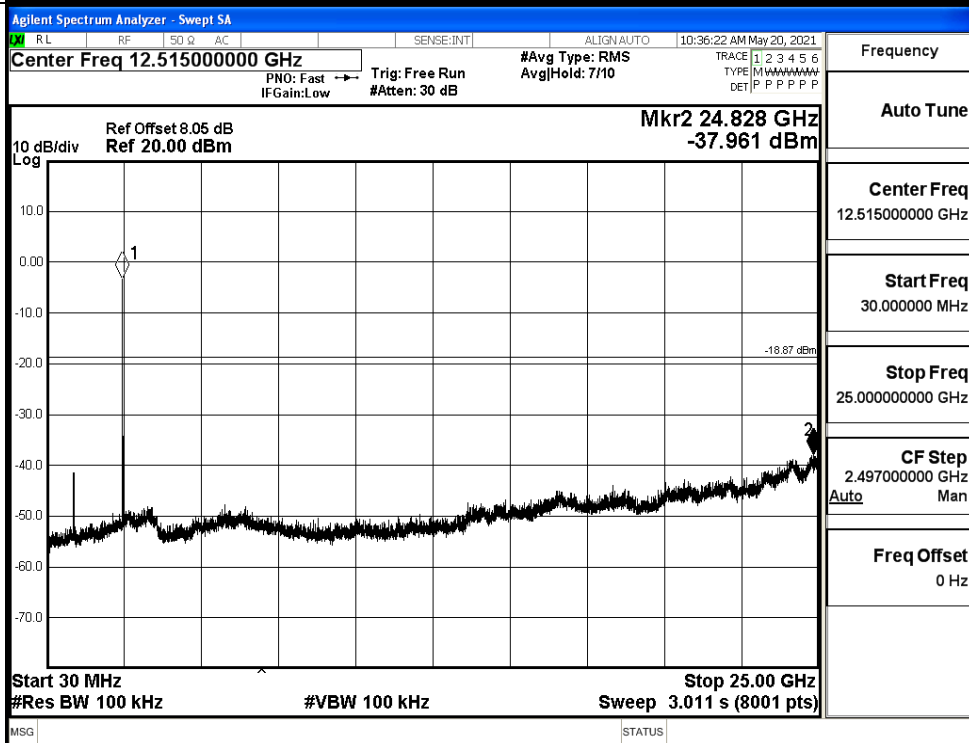


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH



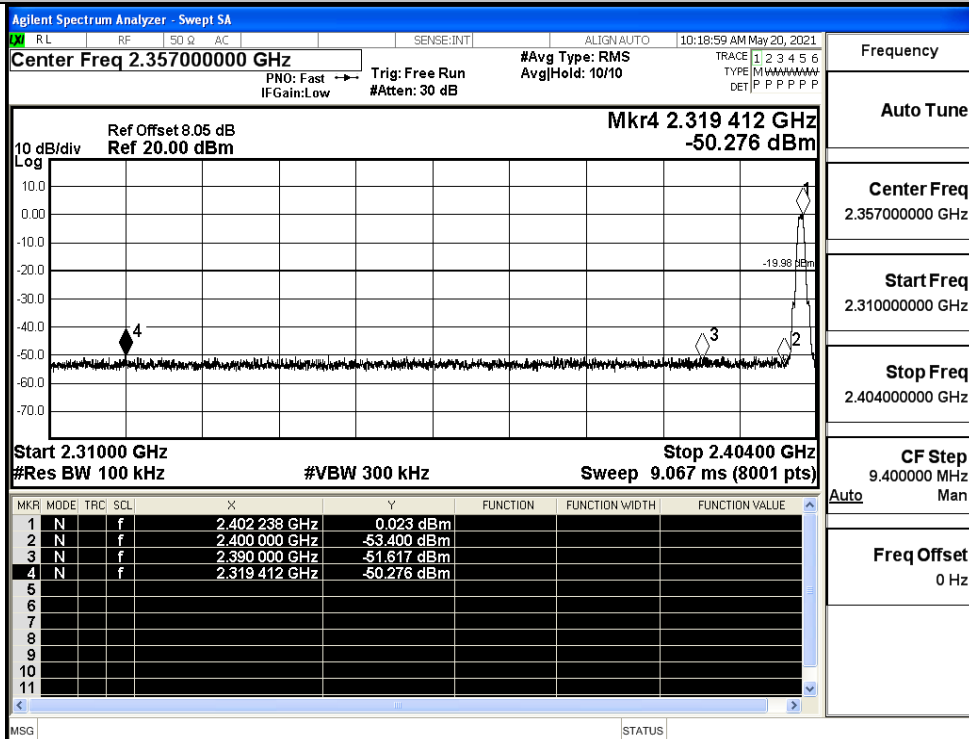
B.7 Band-edge for RF Conducted Emissions

BT LE

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.023	-50.276	-19.98	PASS
BT LE	HCH	0.946	-49.535	-19.05	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq

2.357000000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.404000000 GHz

CF Step

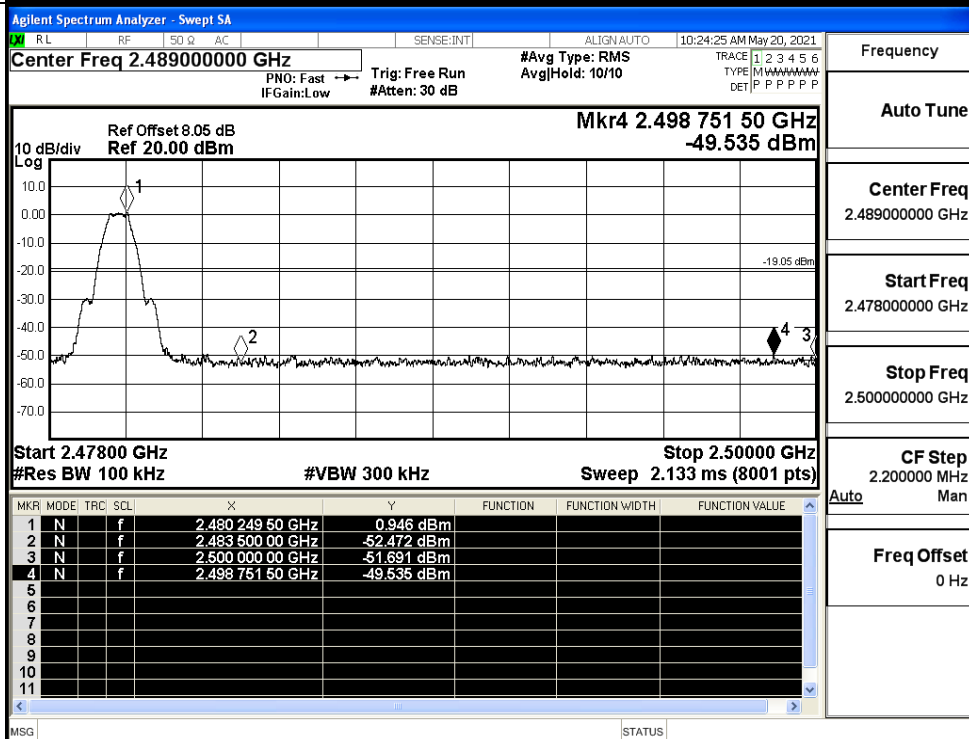
9.400000 MHz

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

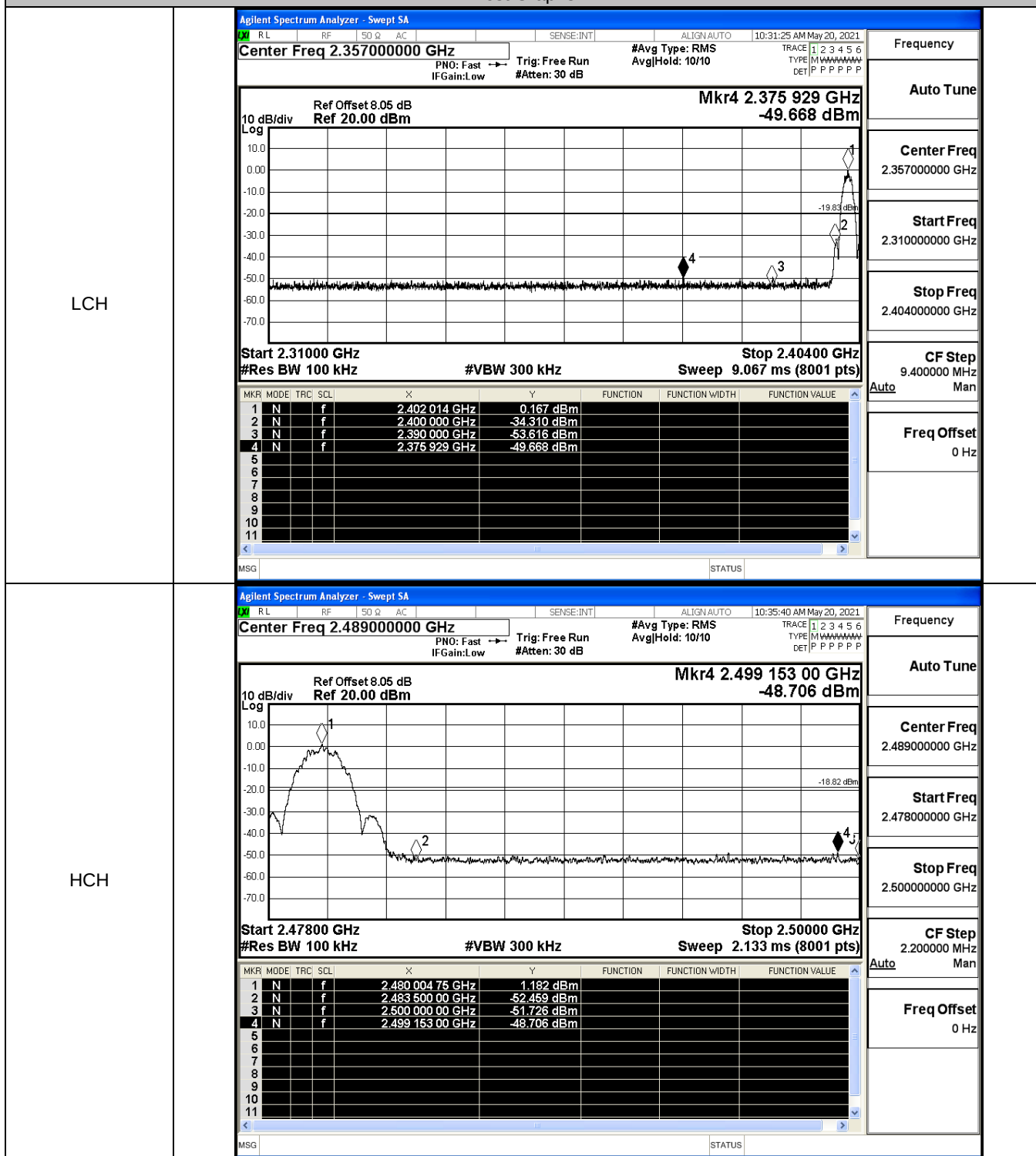
Freq Offset

0 Hz

BT 2LE

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.167	-49.668	-19.83	PASS
BT LE	HCH	1.182	-48.706	-18.82	PASS

Test Graphs

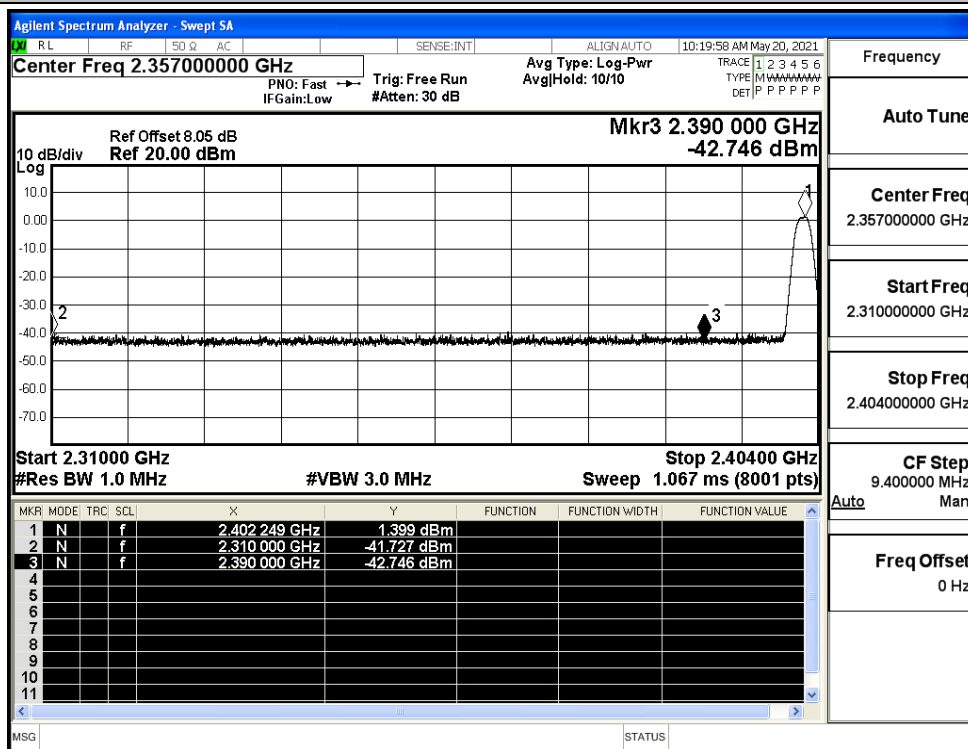


B.8 Restrict-band band-edge measurements

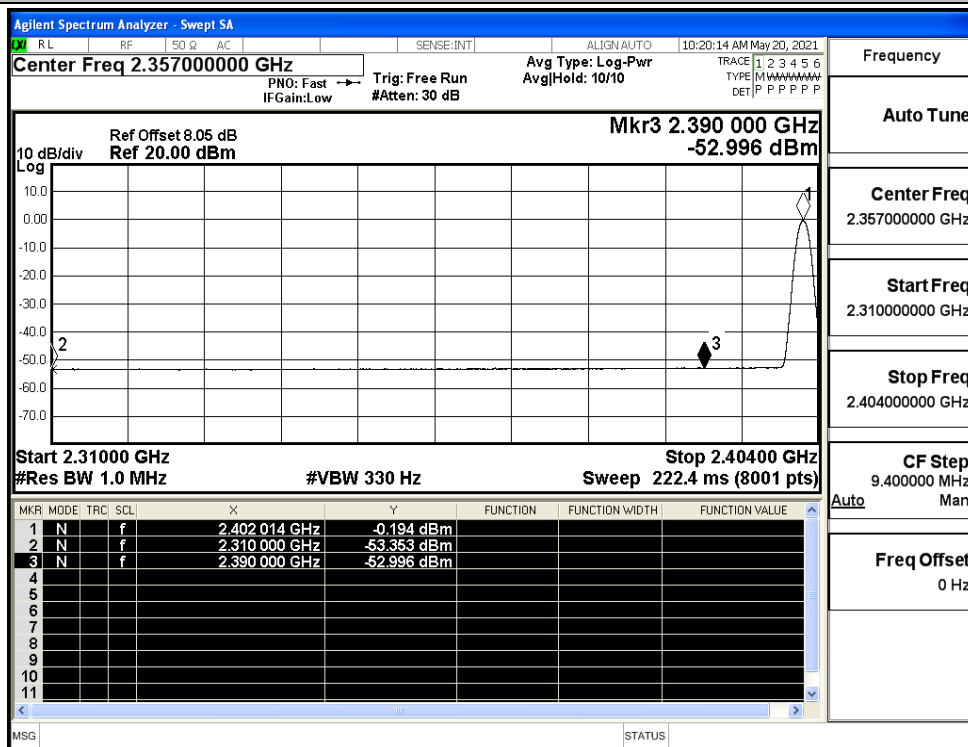
BT LE

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	-41.73	2.0	0	53.53	PEAK	74	PASS
		Ant1	2310.0	-53.35	2.0	0	41.90	AV	54	PASS
		Ant1	2390.0	-42.75	2.0	0	52.51	PEAK	74	PASS
		Ant1	2390.0	-53.00	2.0	0	42.26	AV	54	PASS
	2480	Ant1	2483.5	-43.09	2.0	0	52.16	PEAK	74	PASS
		Ant1	2483.5	-52.30	2.0	0	42.96	AV	54	PASS
		Ant1	2500.0	-42.99	2.0	0	52.27	PEAK	74	PASS
		Ant1	2500.0	-52.23	2.0	0	43.02	AV	54	PASS

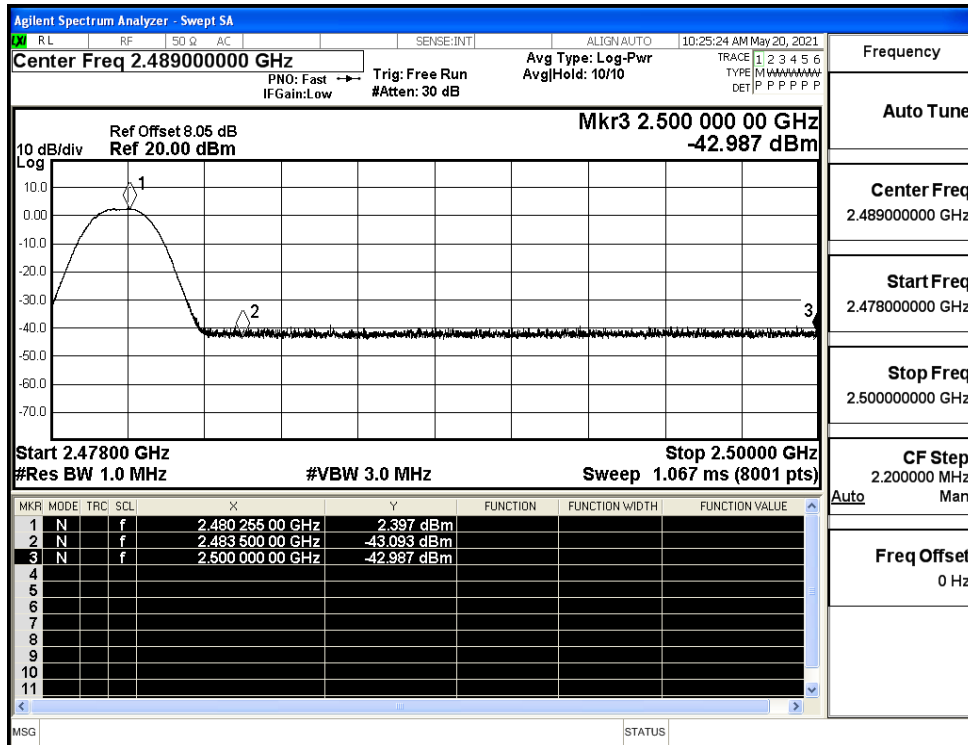
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



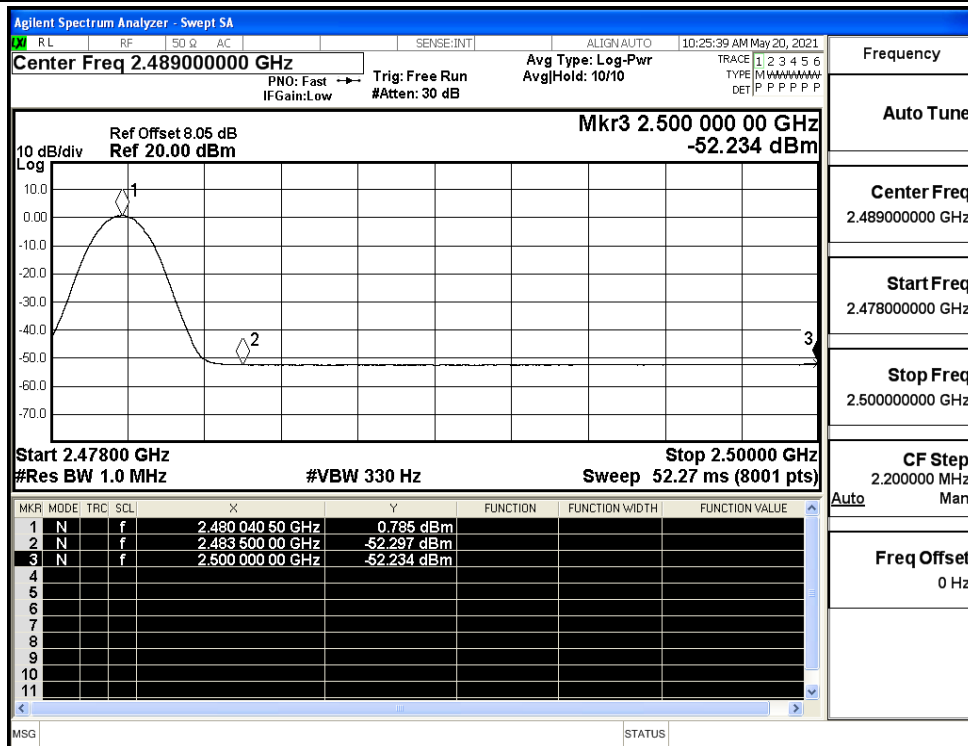
Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



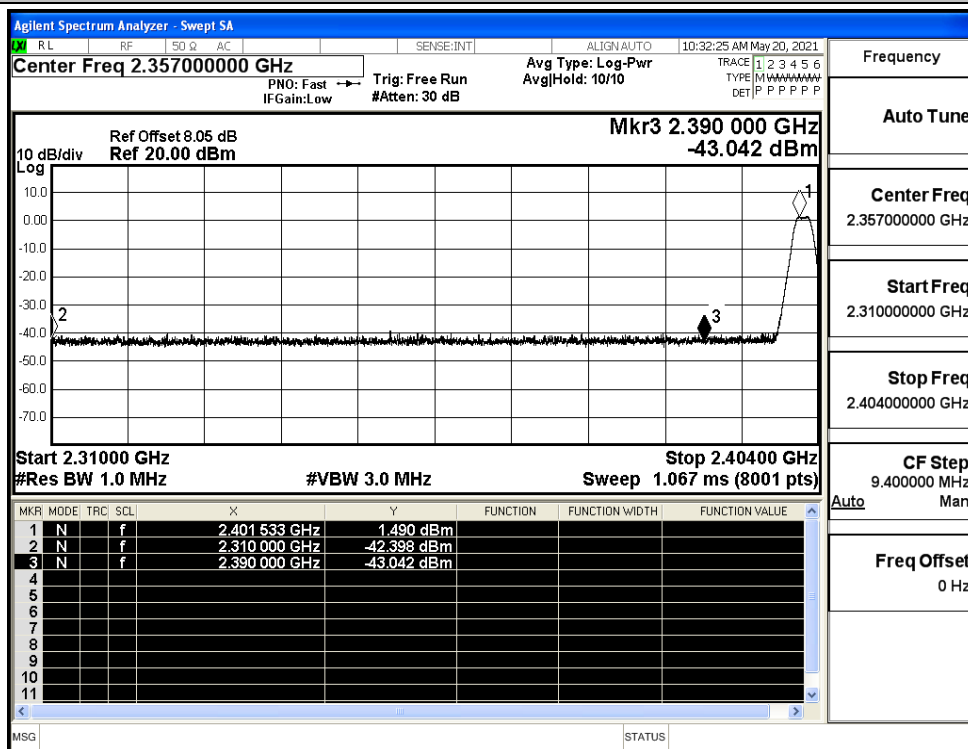
Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



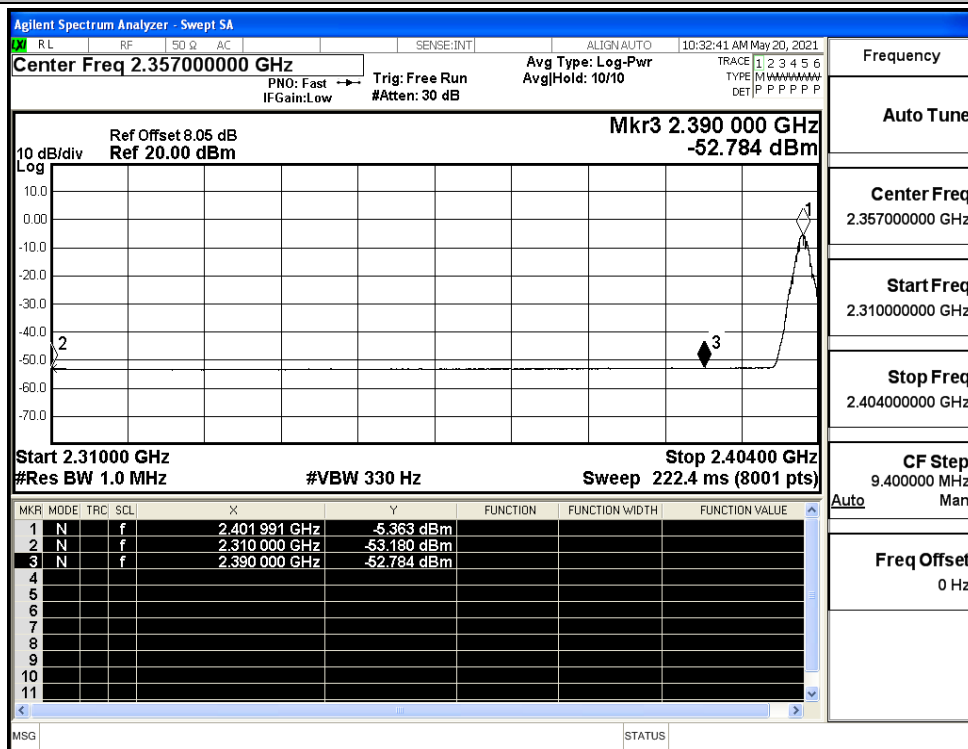
BT 2LE

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	-42.40	2.0	0	52.86	PEAK	74	PASS
		Ant1	2310.0	-53.18	2.0	0	42.08	AV	54	PASS
		Ant1	2390.0	-43.04	2.0	0	52.22	PEAK	74	PASS
		Ant1	2390.0	-52.78	2.0	0	42.47	AV	54	PASS
	2480	Ant1	2483.5	-41.07	2.0	0	54.19	PEAK	74	PASS
		Ant1	2483.5	-51.54	2.0	0	43.72	AV	54	PASS
		Ant1	2500.0	-42.33	2.0	0	52.93	PEAK	74	PASS
		Ant1	2500.0	-52.32	2.0	0	42.94	AV	54	PASS

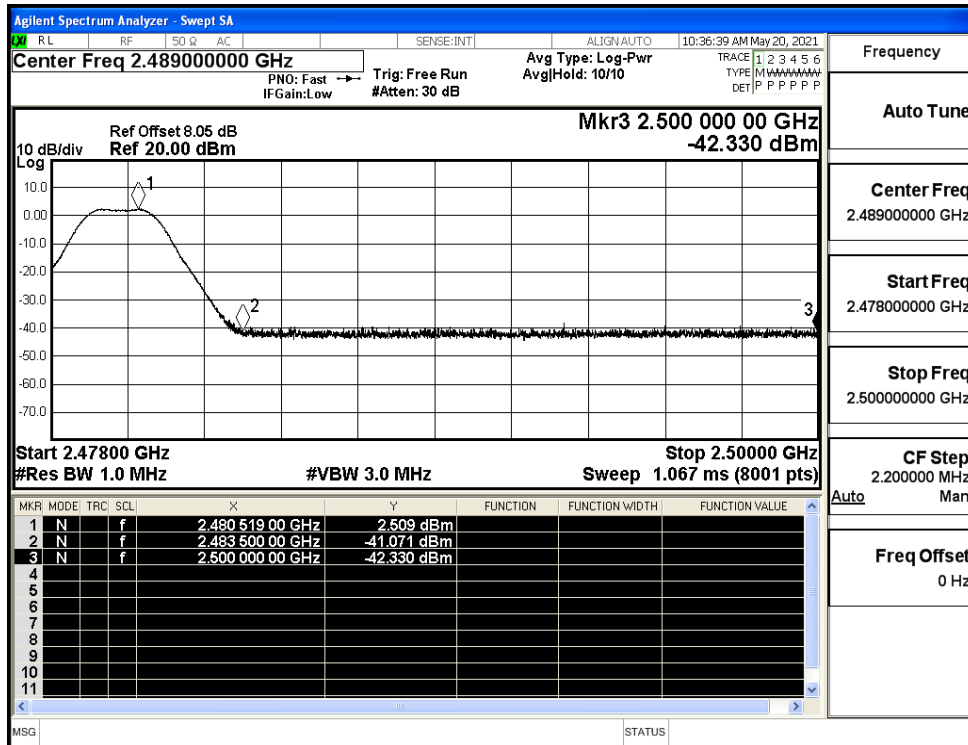
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

