

Appendix A

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

Product Name: BABI Alert S

Trade Mark: BABI

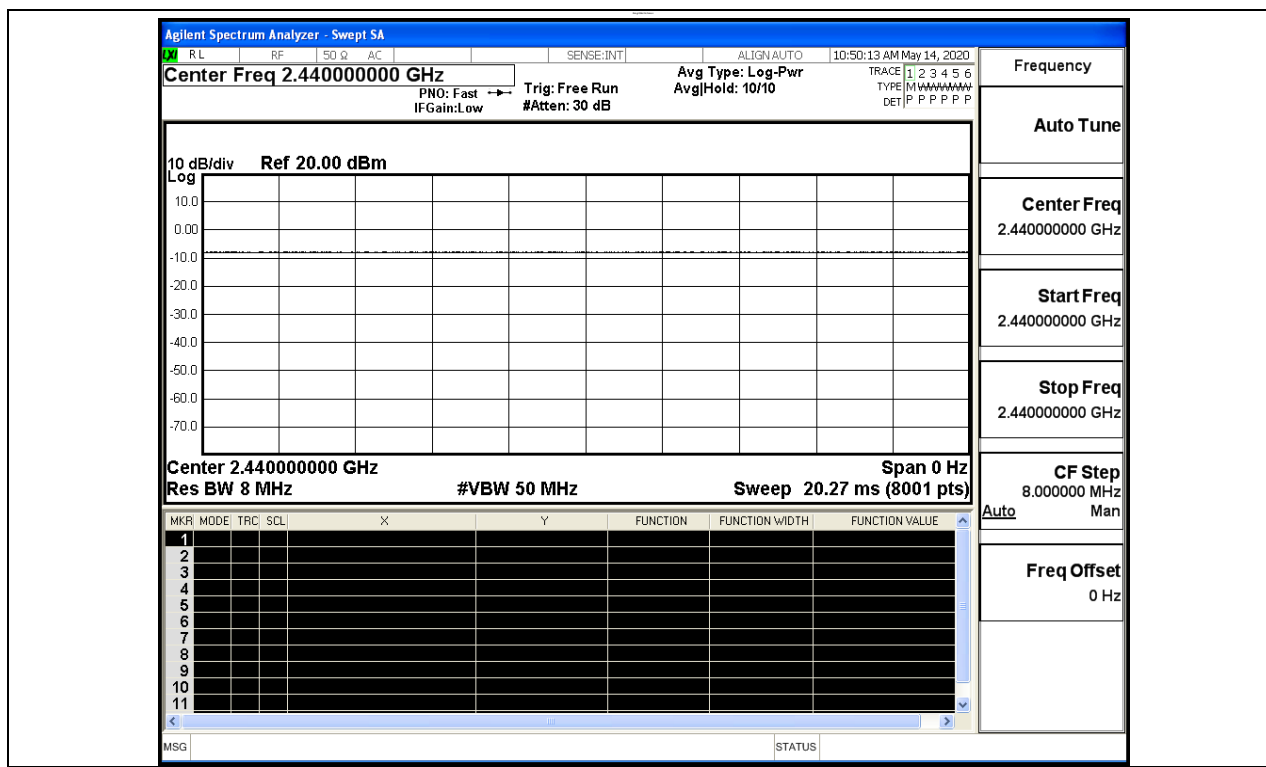
Test Model: BAS1001

Environmental Conditions

Temperature:	23.3 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	QUXIN
Supervised by:	Li Huan

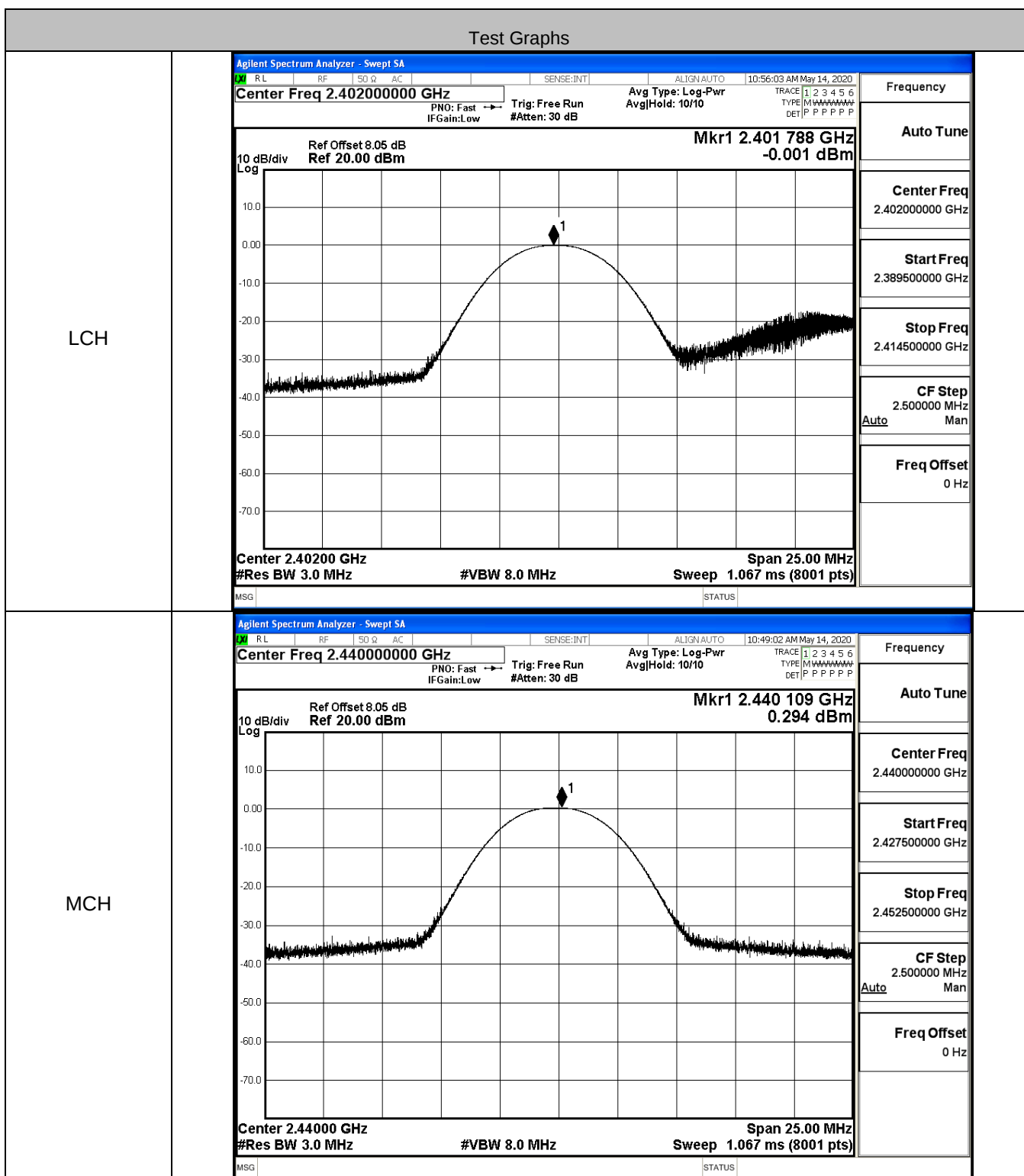
A.1 Duty Cycle

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

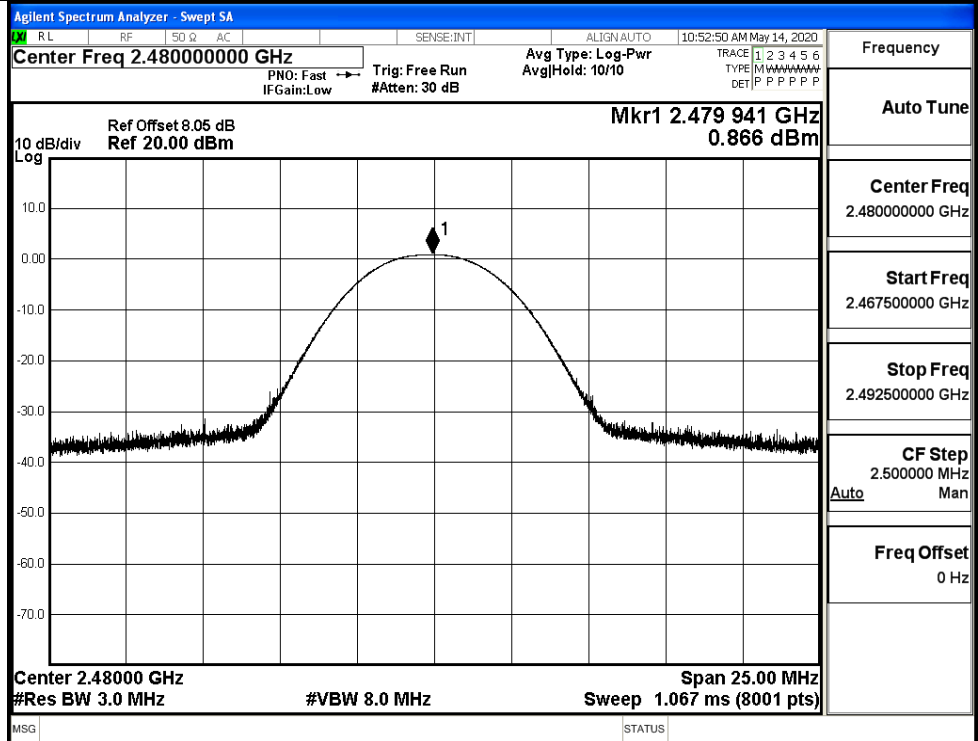


A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.001	30	PASS
BT LE	MCH	0.294	30	PASS
BT LE	HCH	0.866	30	PASS



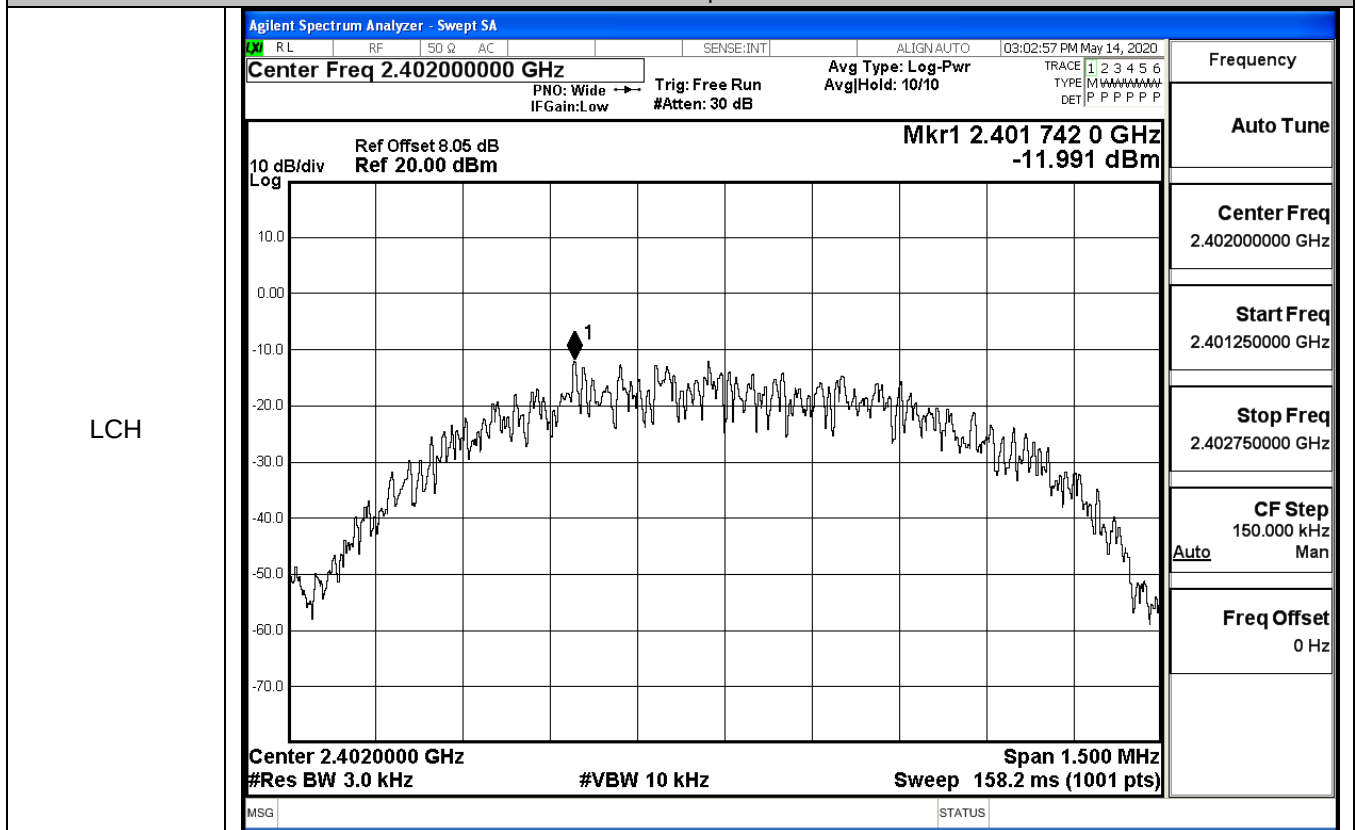
HCH



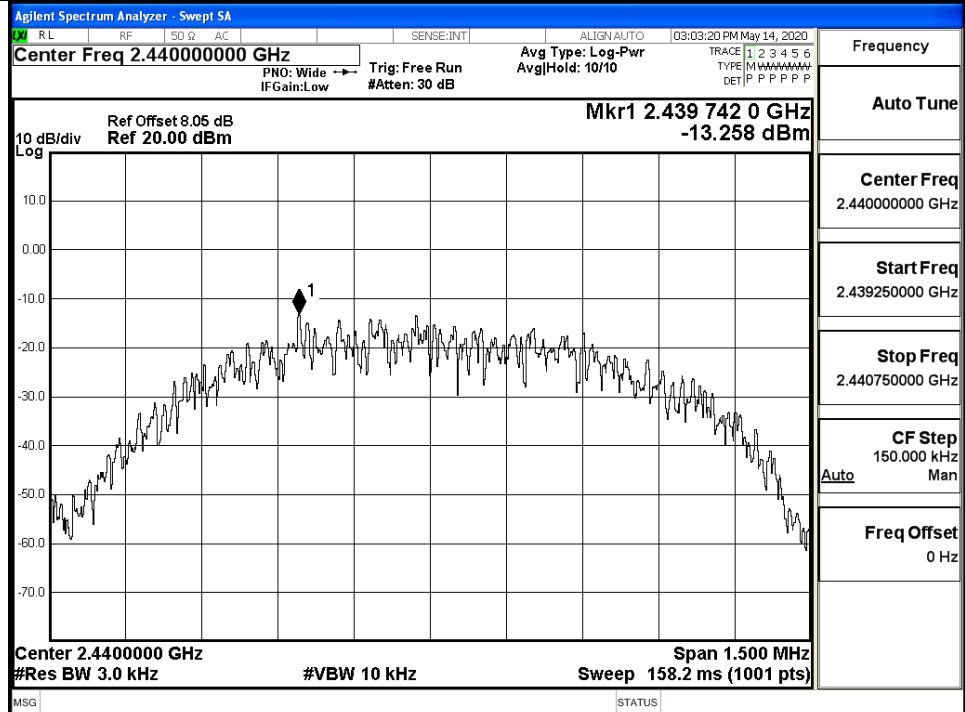
A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-11.991	8	PASS
BT LE	MCH	-13.258	8	PASS
BT LE	HCH	-15.115	8	PASS

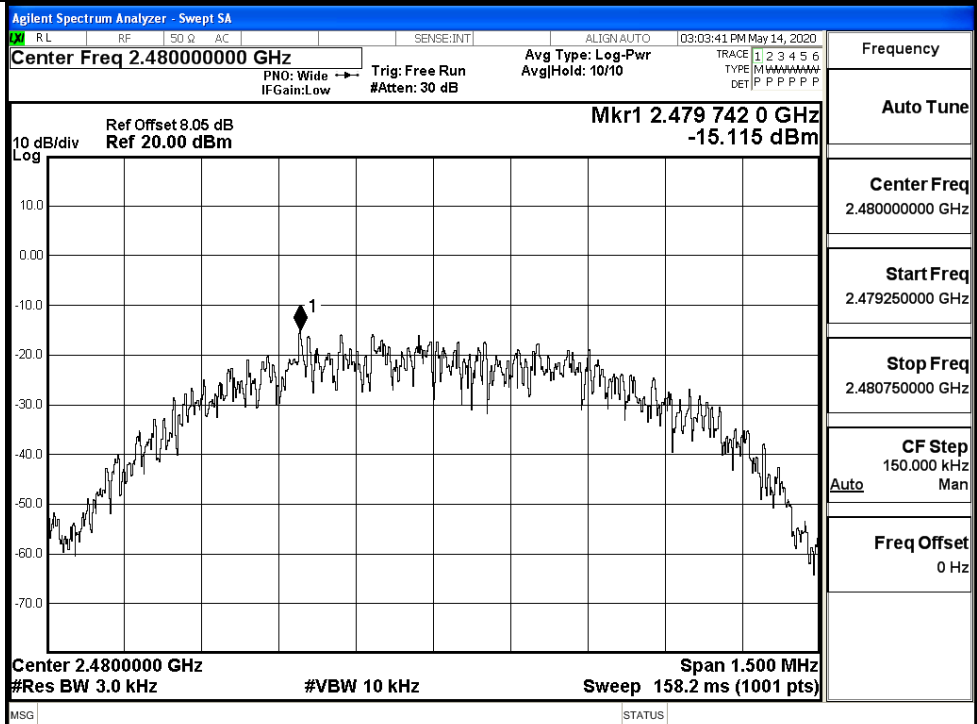
Test Graphs



MCH



HCH

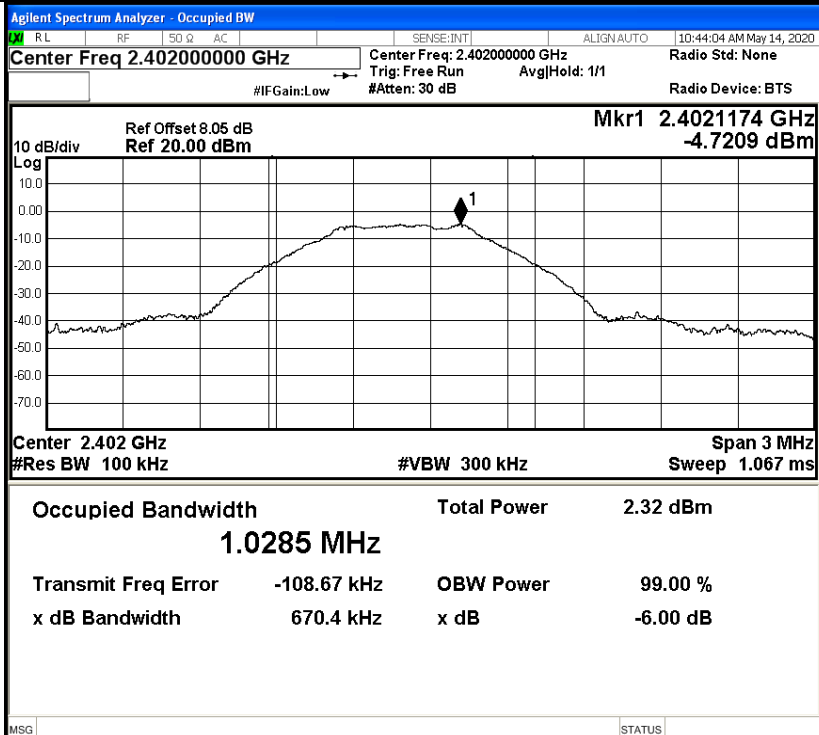


A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6704	≥ 0.5	PASS
BT LE	MCH	0.6694	≥ 0.5	PASS
BT LE	HCH	0.6781	≥ 0.5	PASS

Test Graphs

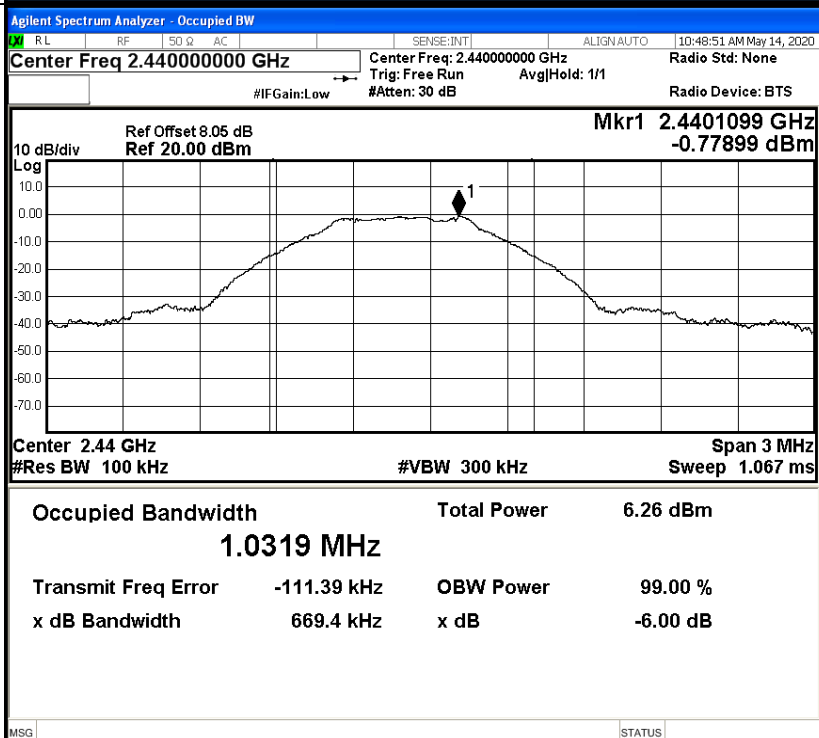
LCH



Frequency

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

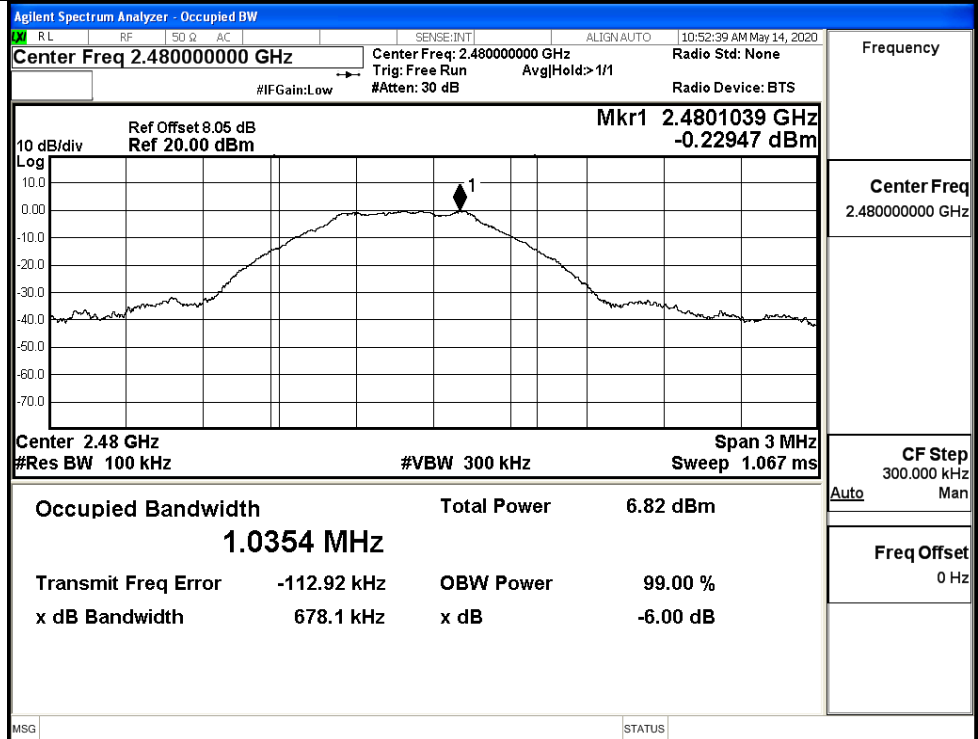
MCH



Frequency

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

HCH

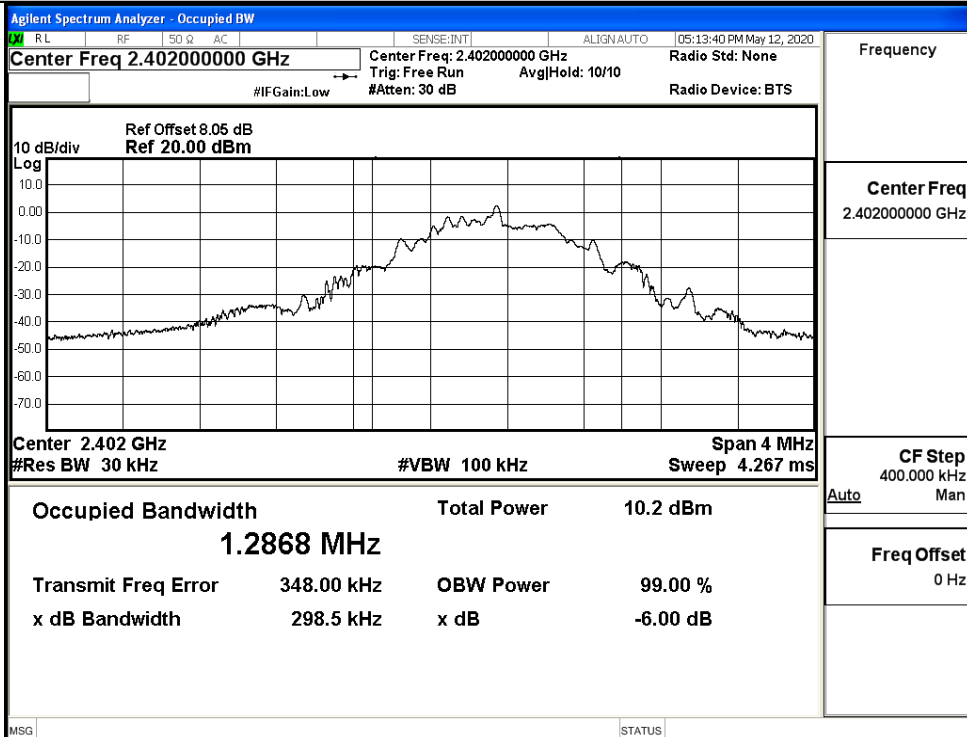


A.5 Occupied Bandwidth

Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.2868	≥ 0.5	PASS
BT LE	MCH	1.3031	≥ 0.5	PASS
BT LE	HCH	1.0674	≥ 0.5	PASS

Test Graphs

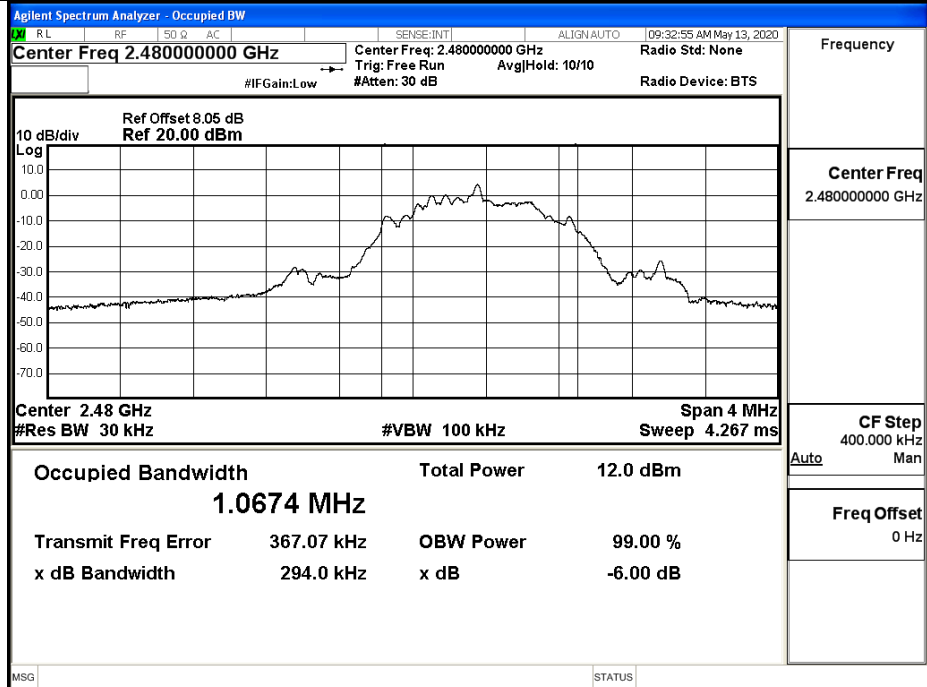
LCH



MCH

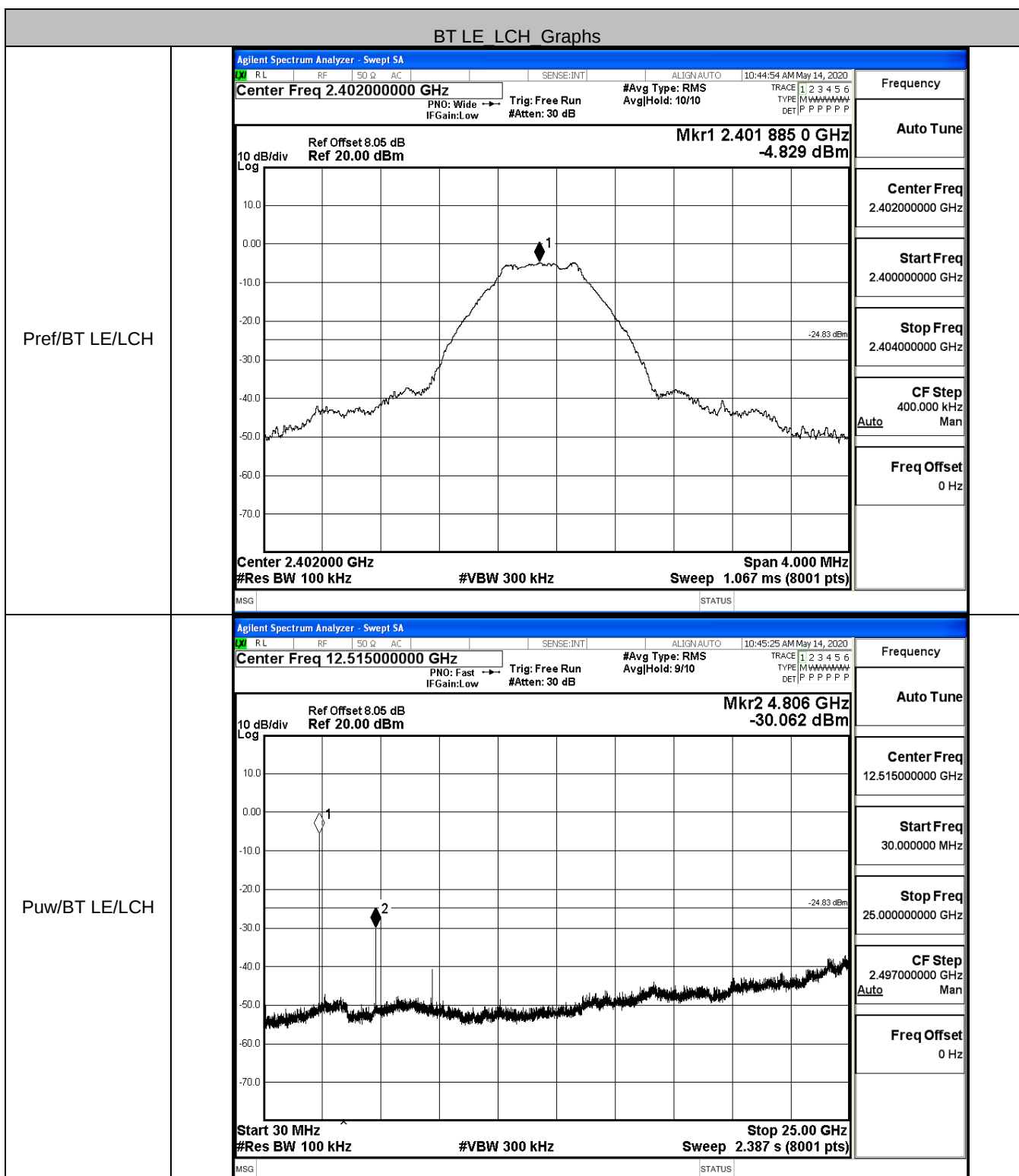


HCH



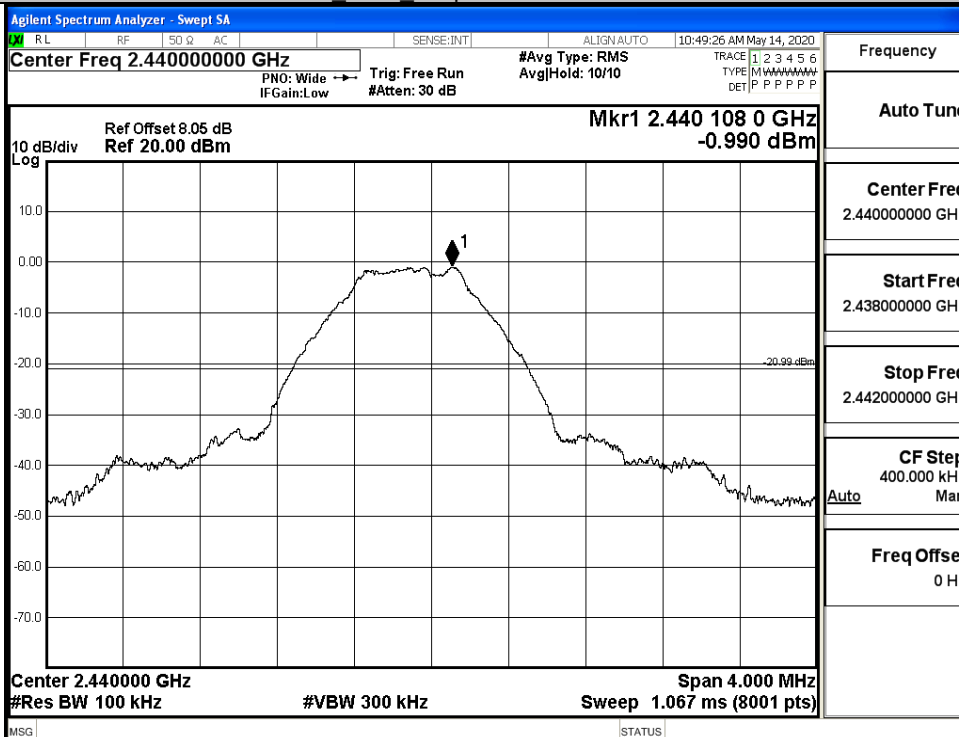
A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.829	-30.062	-24.829	PASS
BT LE	MCH	-0.99	-21.734	-20.990	PASS
BT LE	HCH	-0.187	-22.940	-20.187	PASS

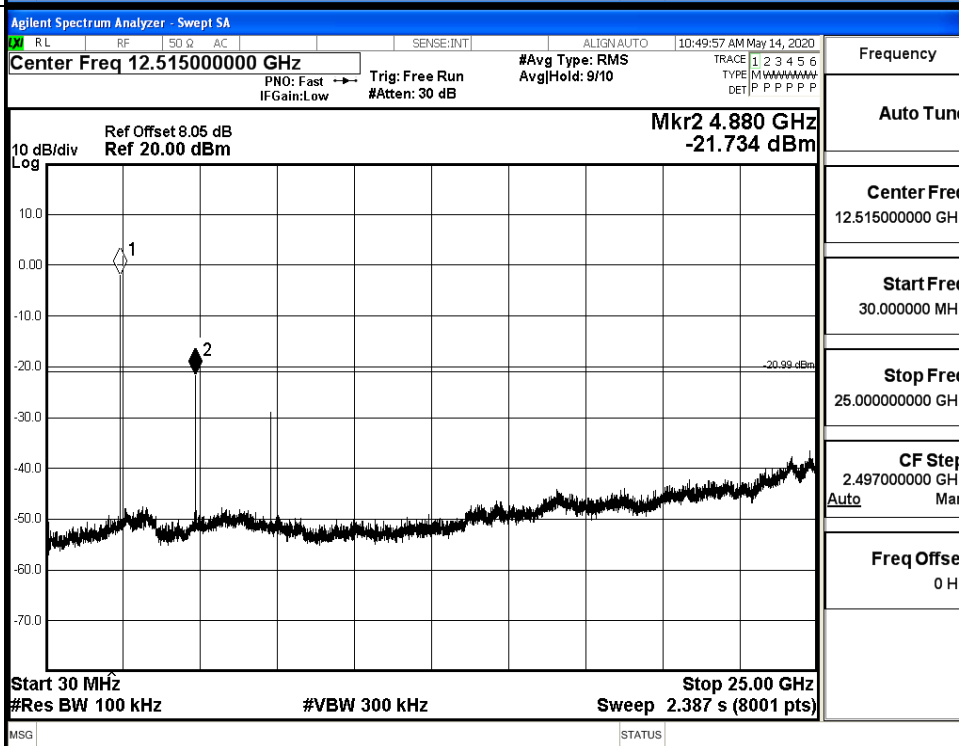


BT LE MCH Graphs

Pref/BT LE/MCH

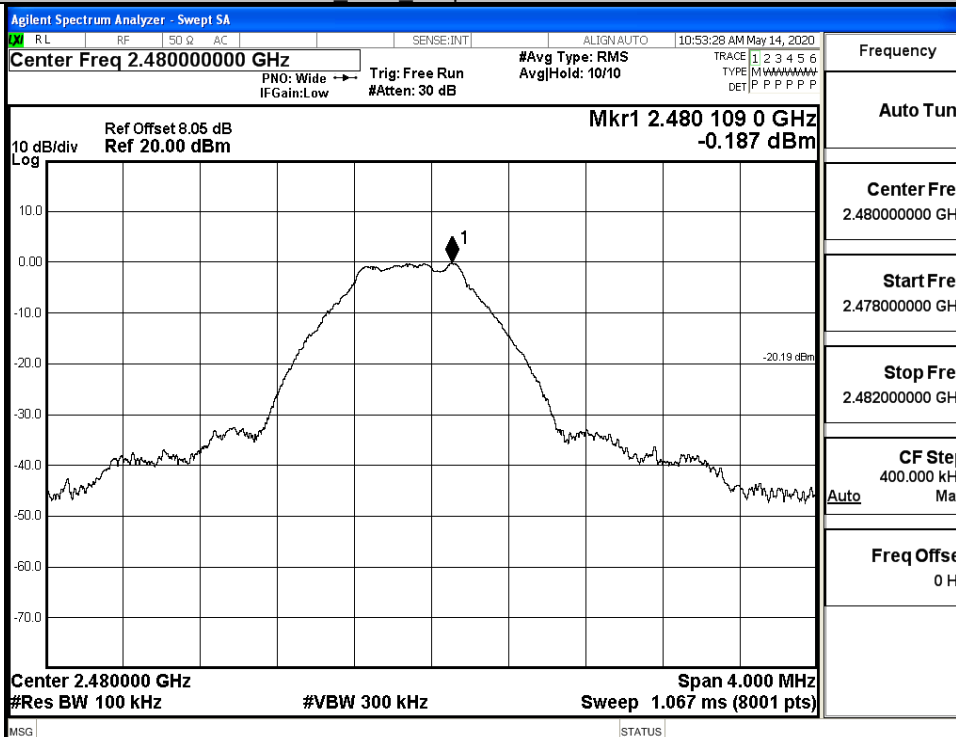


Puw/BT LE/MCH

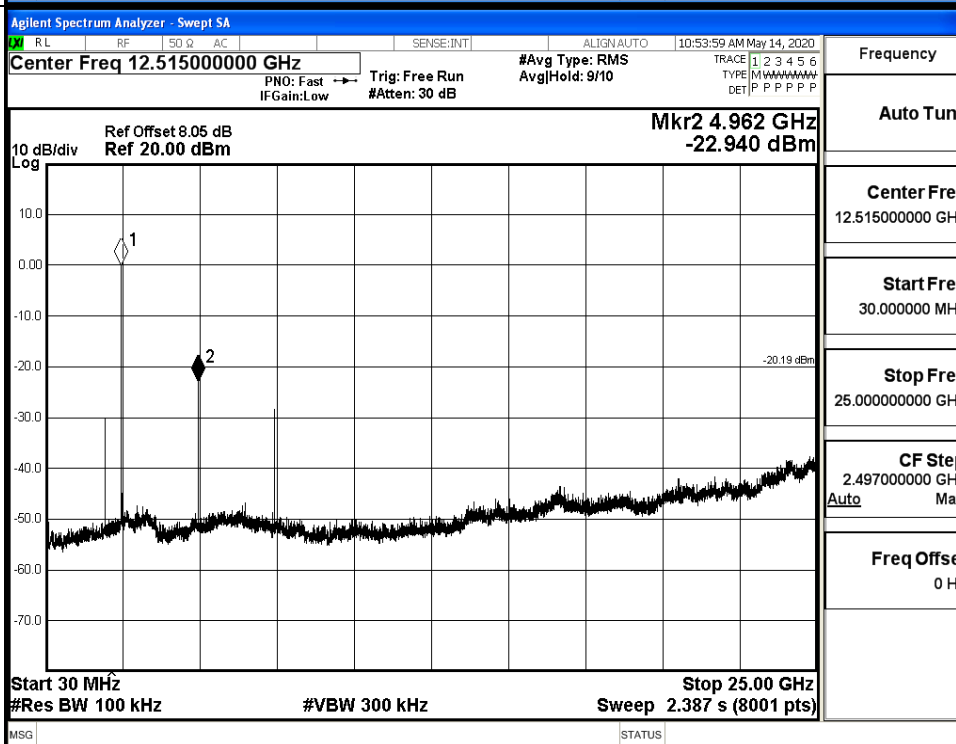


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

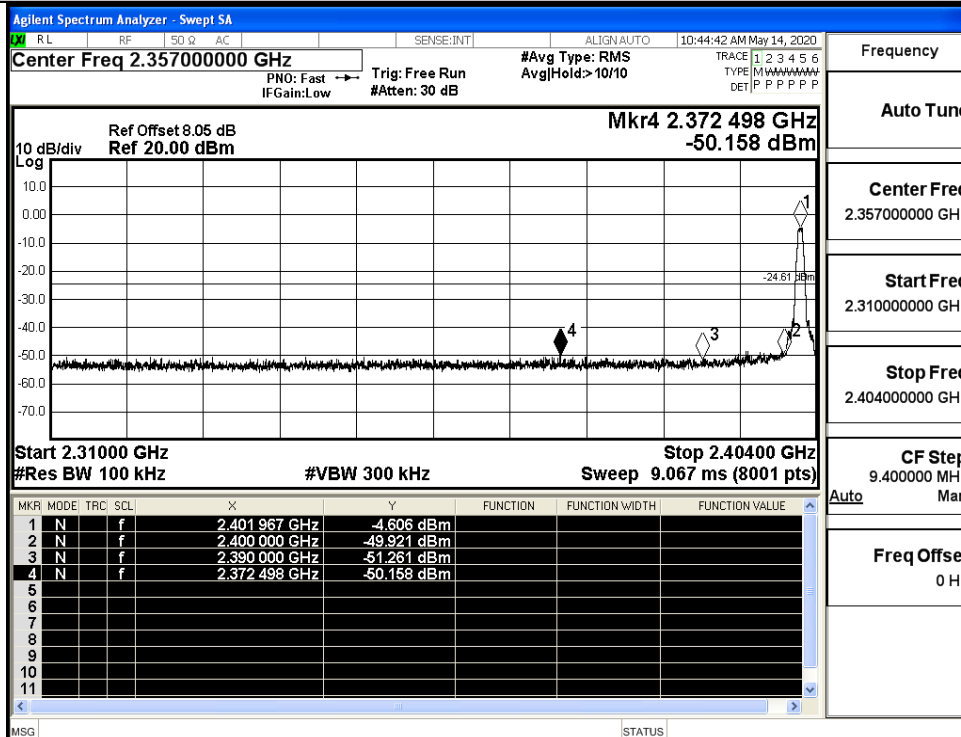


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-4.606	-50.158	-24.61	PASS
BT LE	HCH	-0.021	-45.368	-20.02	PASS

Test Graphs

LCH

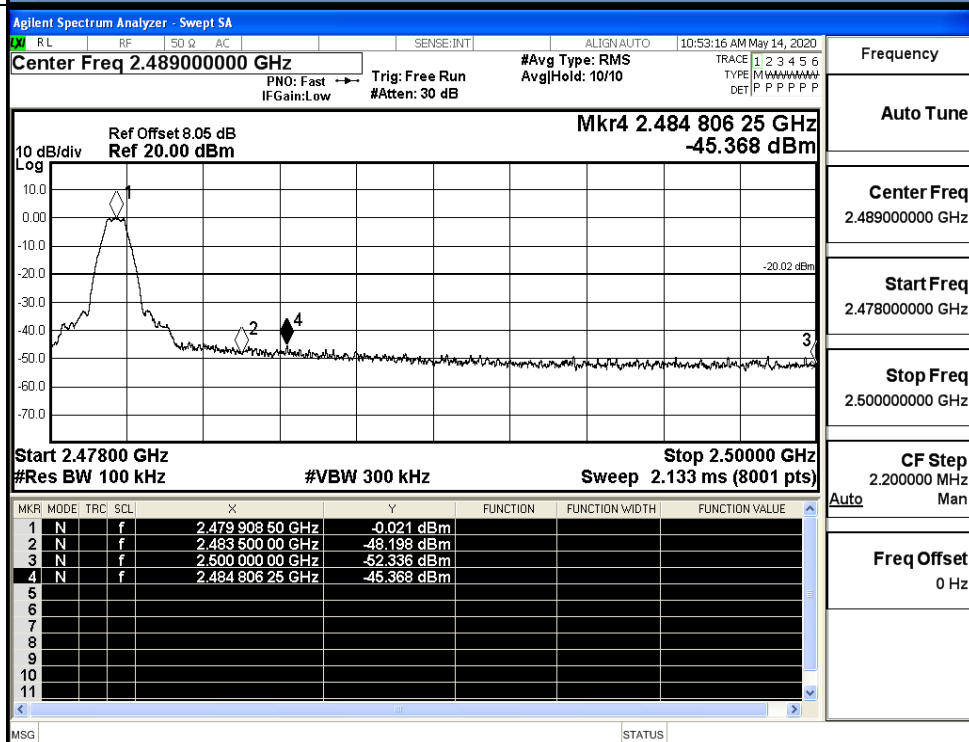


Frequency

Auto Tune

Center Freq
2.357000000 GHzStart Freq
2.310000000 GHzStop Freq
2.404000000 GHzCF Step
9.400000 MHz
Auto ManFreq Offset
0 Hz

HCH



Frequency

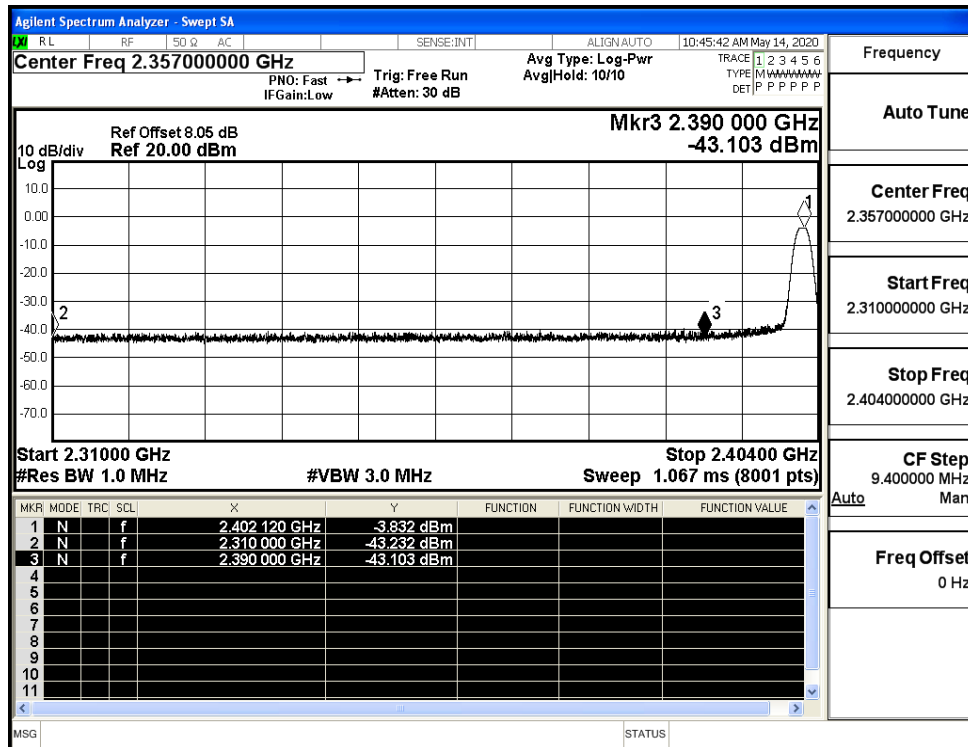
Auto Tune

Center Freq
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2.478000000 GHzStop Freq
2.500000000 GHzCF Step
2.200000 MHz
Auto ManFreq Offset
0 Hz

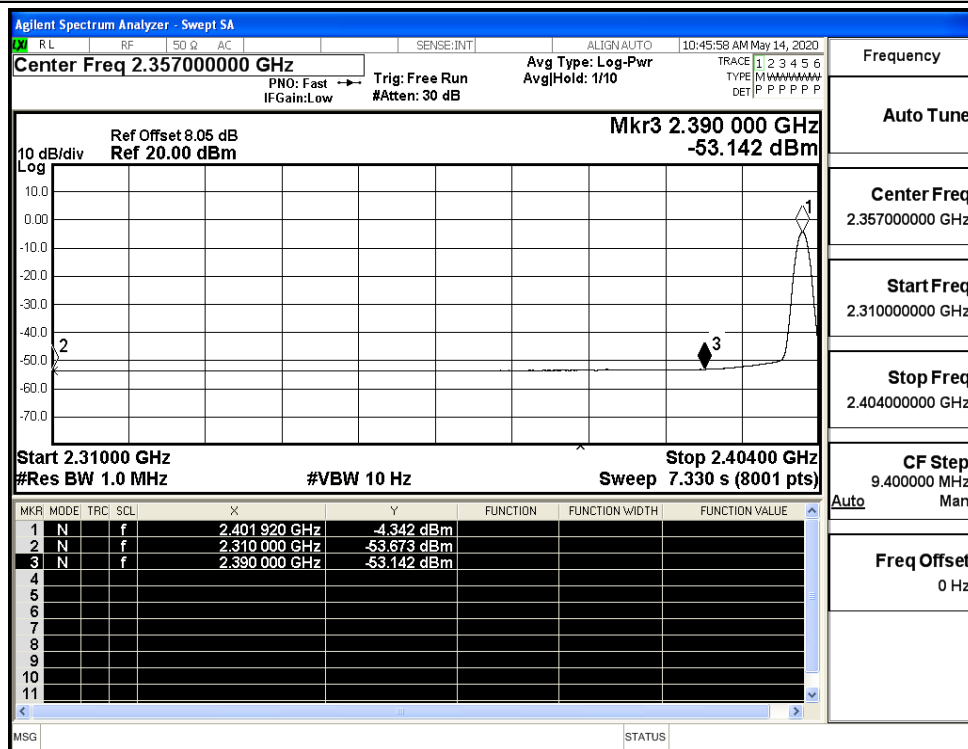
A.8 Restrict-band band-edge measurements

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	-43.23	2.0	0	52.03	PEAK	74	PASS
		Ant1	2310.0	-53.67	2.0	0	41.58	AV	54	PASS
		Ant1	2390.0	-43.10	2.0	0	52.15	PEAK	74	PASS
		Ant1	2390.0	-53.14	2.0	0	42.12	AV	54	PASS
	2480	Ant1	2483.5	-37.59	2.0	0	57.67	PEAK	74	PASS
		Ant1	2483.5	-47.51	2.0	0	47.75	AV	54	PASS
		Ant1	2500.0	-42.08	2.0	0	53.18	PEAK	74	PASS
		Ant1	2500.0	-52.70	2.0	0	42.56	AV	54	PASS

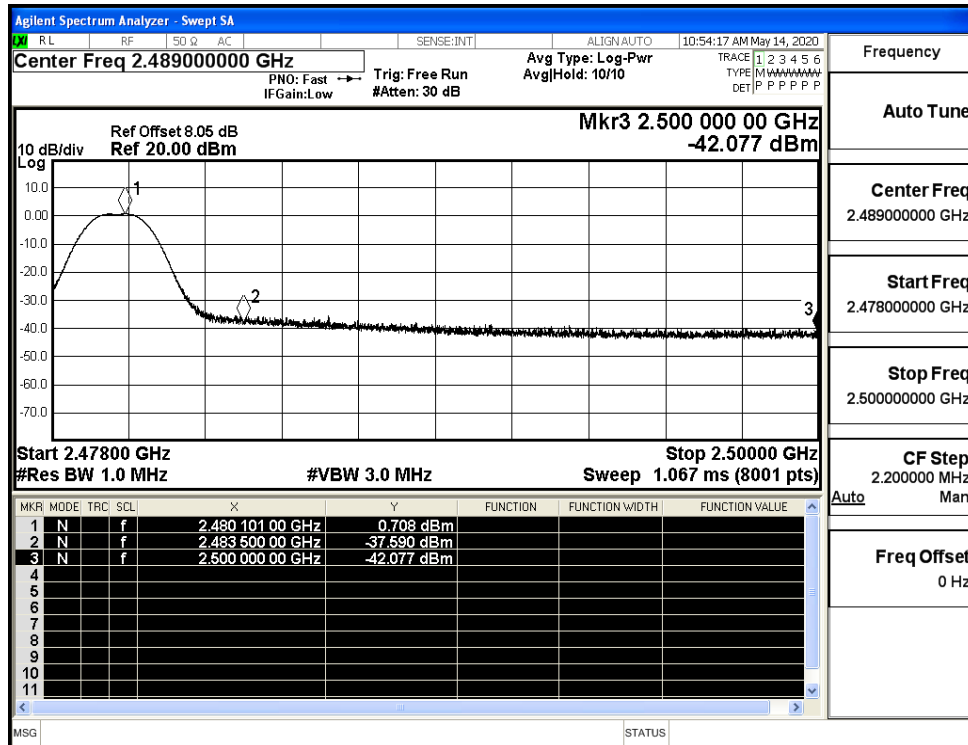
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

