

Appendix A

RF Test Data for BT 4.2(BLE) (Conducted Measurement)

Product Name: RM BOTTLE SERVICE RITUAL

Trade Mark: REMY MARTIN

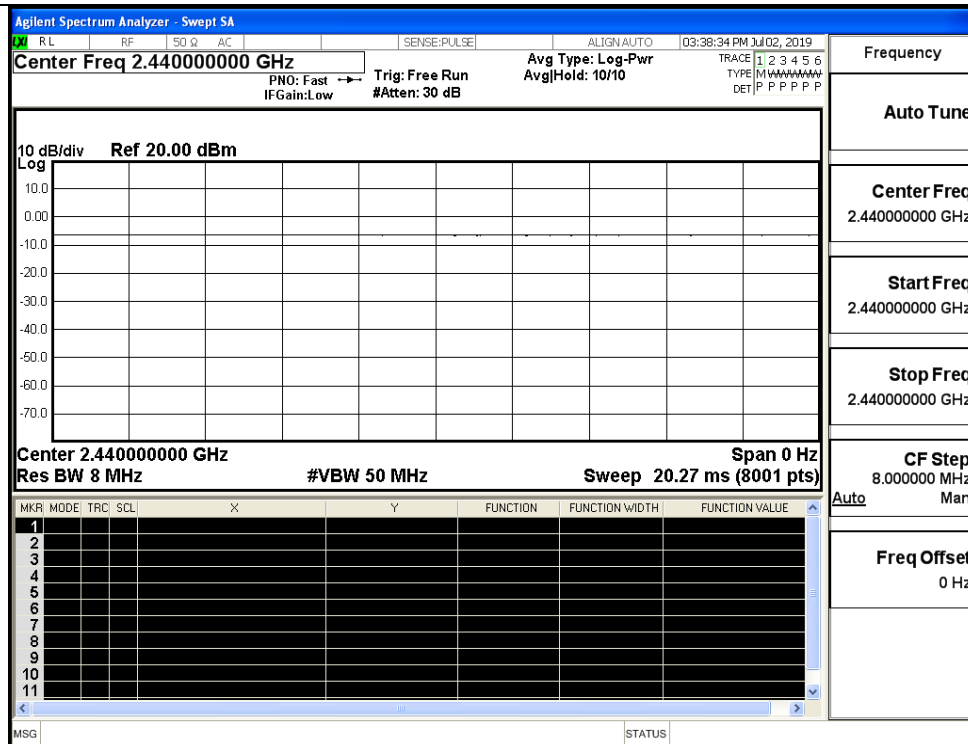
Test Model: 4003514

Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	59%
ATM Pressure:	100.0 kPa
Test Engineer:	CHUANG WANG
Supervised by:	JAYDEN ZHUO

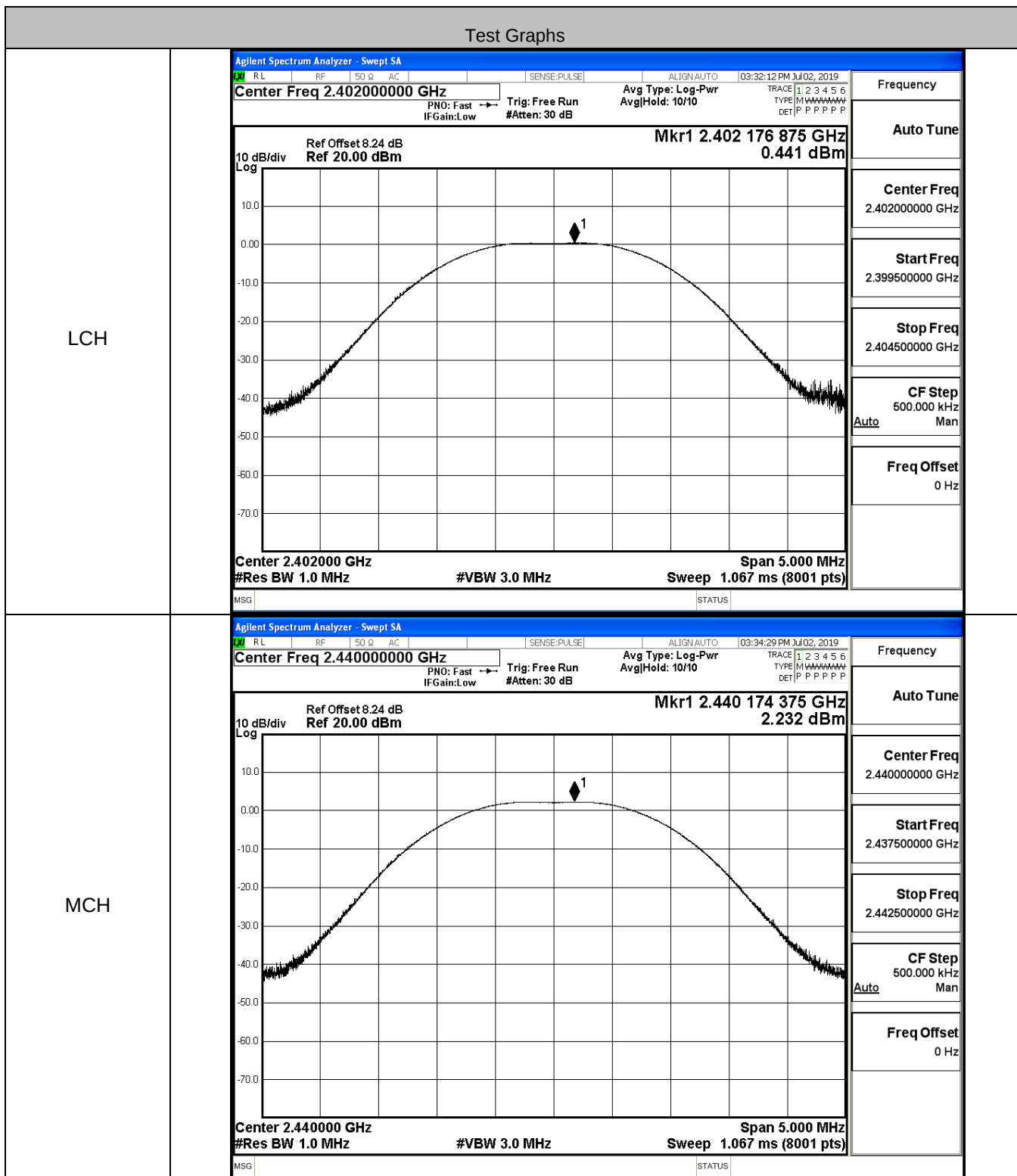
A.1 Duty Cycle

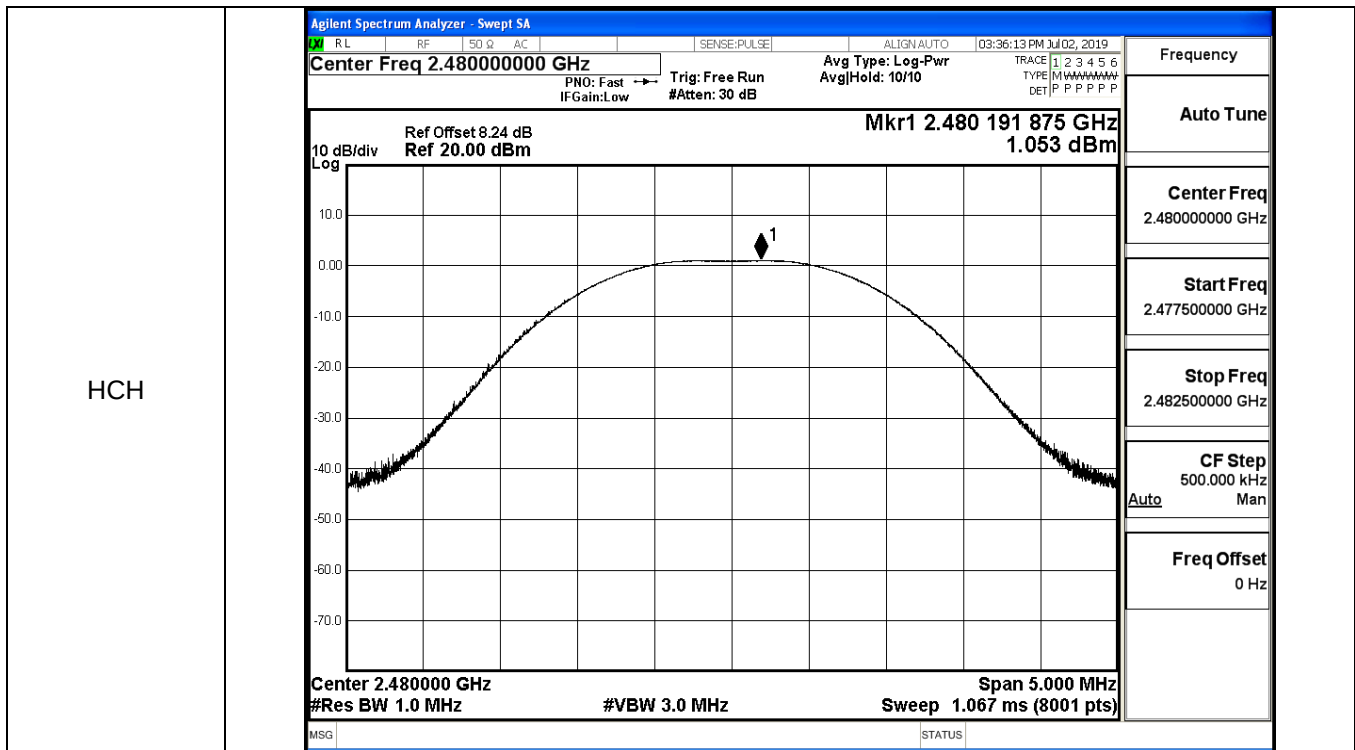
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
BT LE	2440	Ant1	100	PASS



A.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.441	30	PASS
BT LE	MCH	2.232	30	PASS
BT LE	HCH	1.053	30	PASS



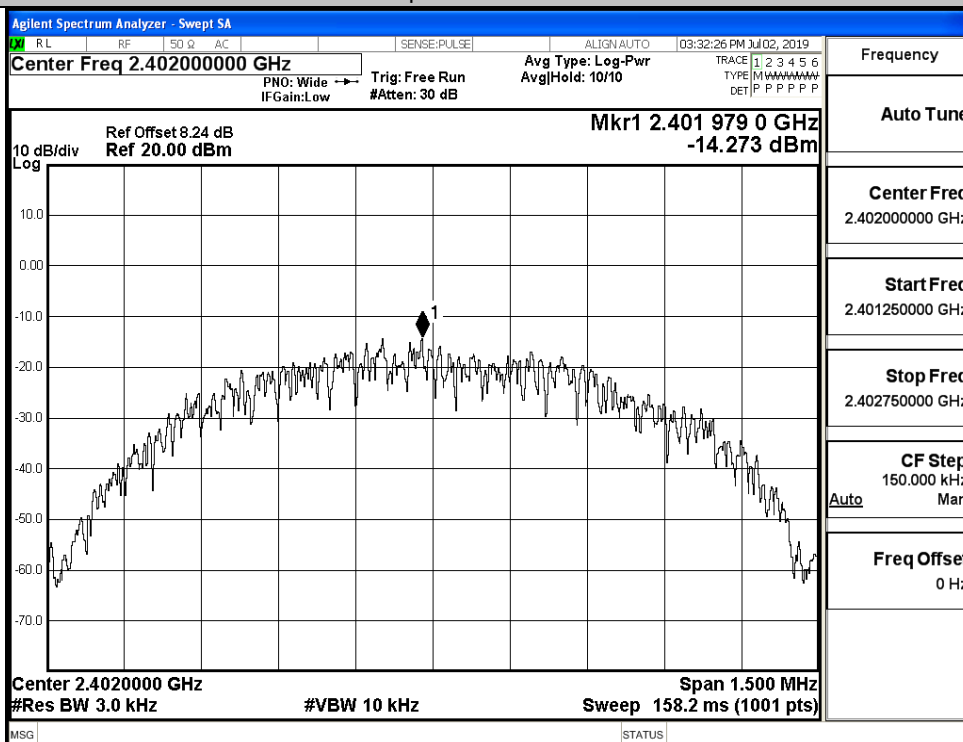


A.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.273	8	PASS
BT LE	MCH	-13.659	8	PASS
BT LE	HCH	-14.036	8	PASS

Test Graphs

LCH

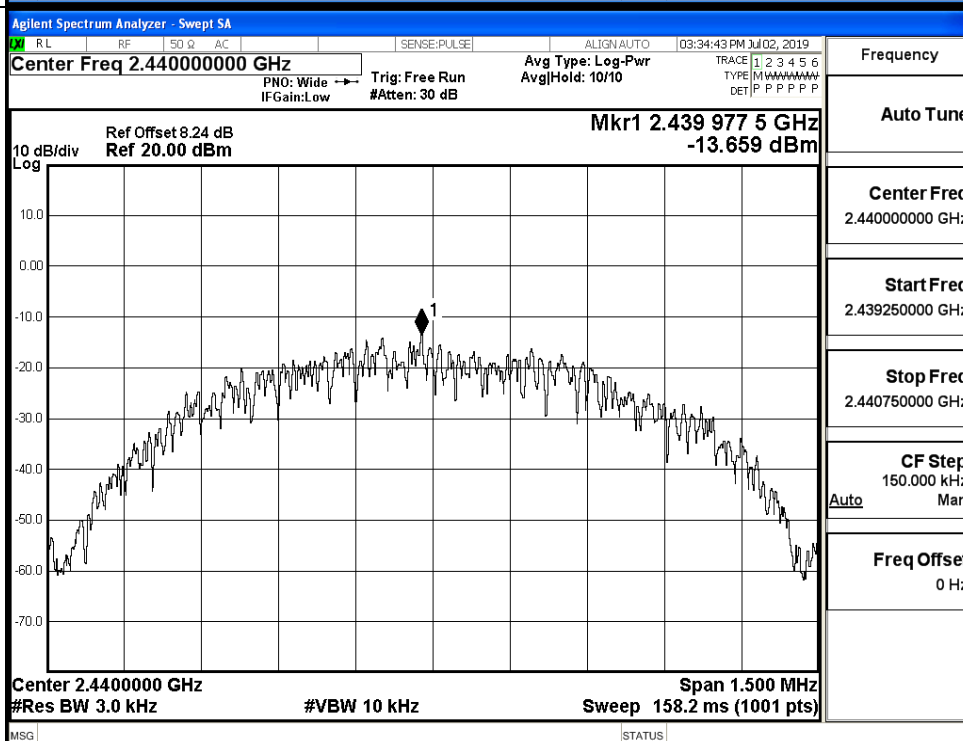


Frequency

Auto Tune

Center Freq
2.402000000 GHzStart Freq
2.401250000 GHzStop Freq
2.402750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

MCH

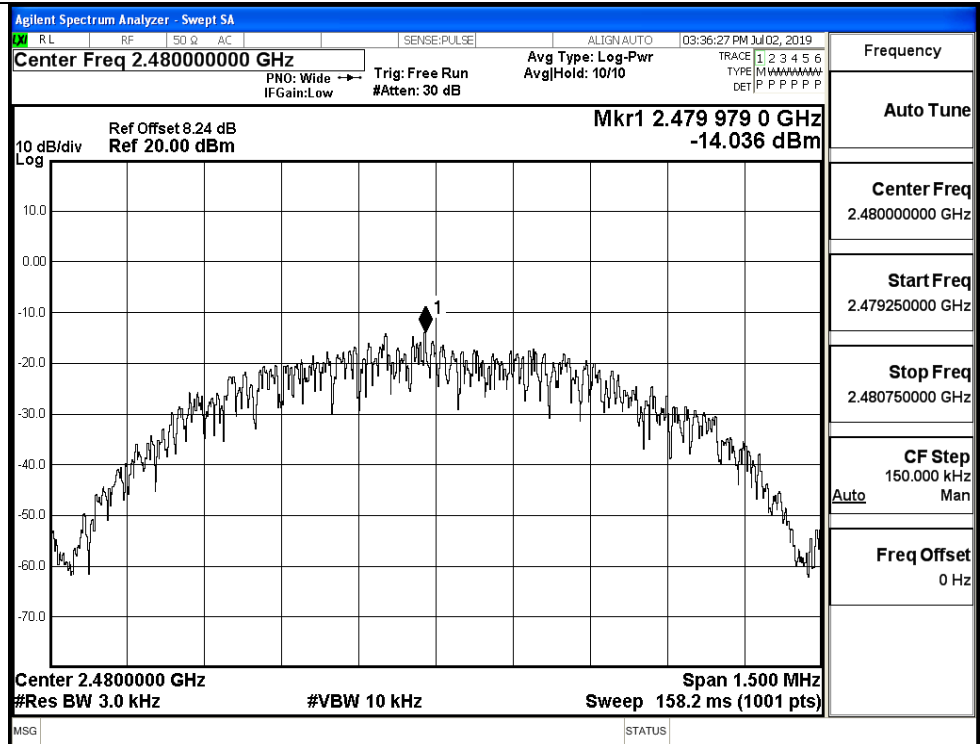


Frequency

Auto Tune

Center Freq
2.440000000 GHzStart Freq
2.439250000 GHzStop Freq
2.440750000 GHzCF Step
150.000 kHz
Auto ManFreq Offset
0 Hz

HCH

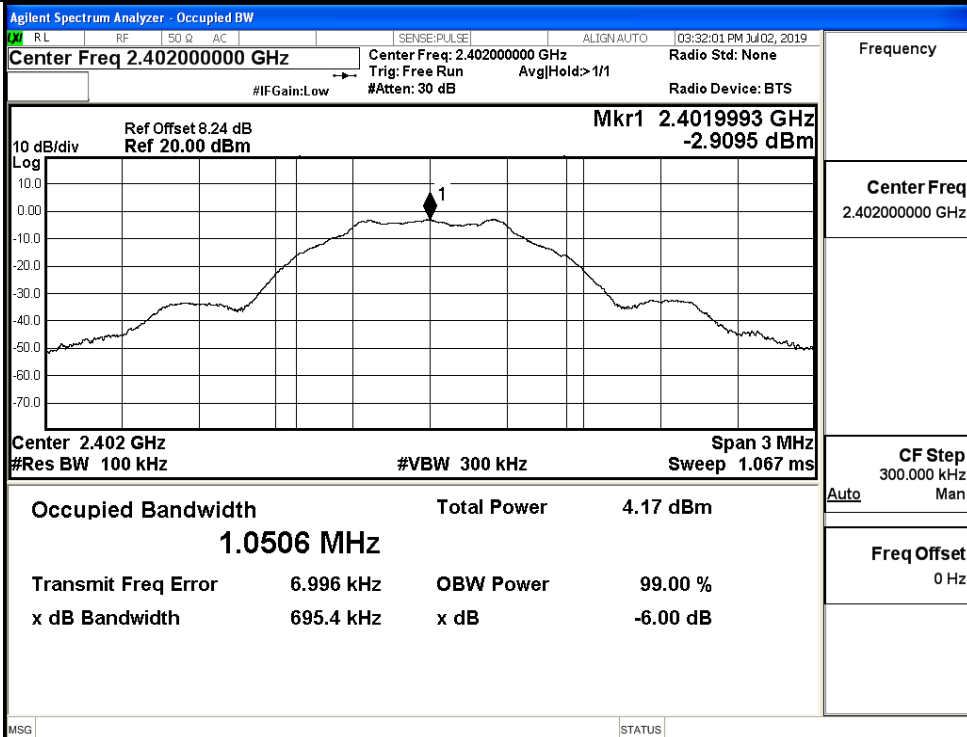


A.4 6dB Bandwidth

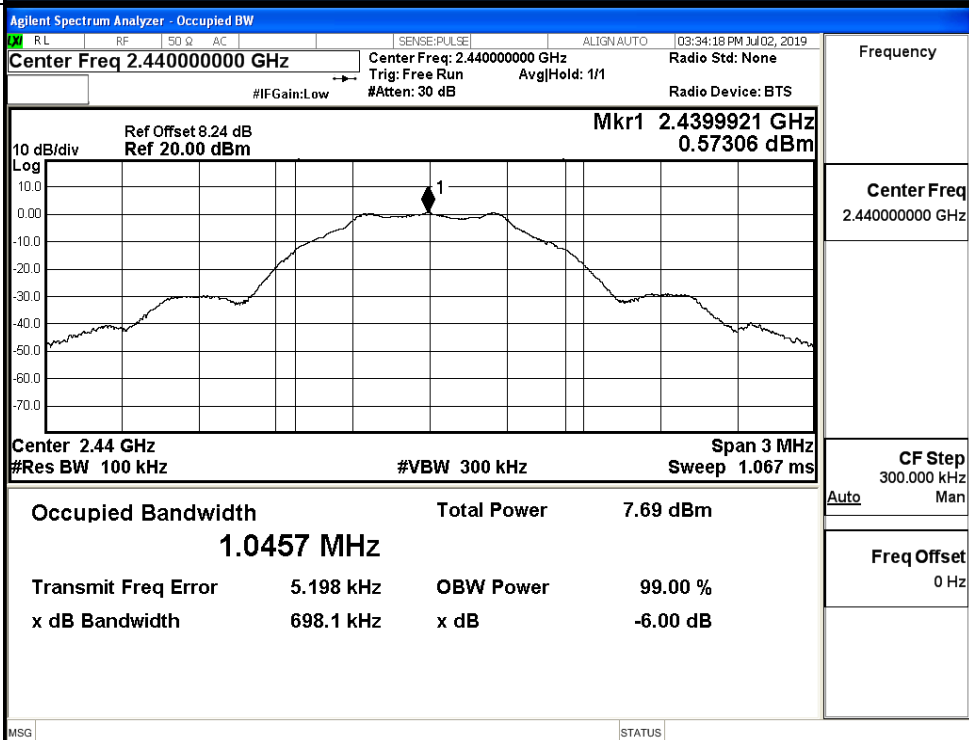
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6954	≥ 0.5	PASS
BT LE	MCH	0.6981	≥ 0.5	PASS
BT LE	HCH	0.6935	≥ 0.5	PASS

Test Graphs

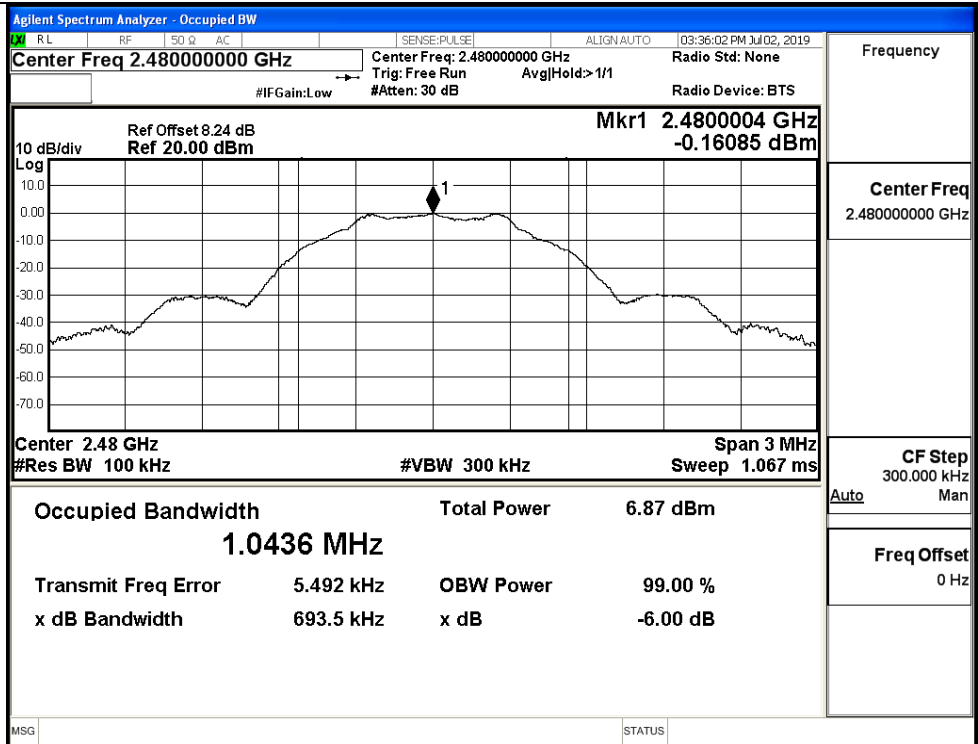
LCH



MCH



HCH

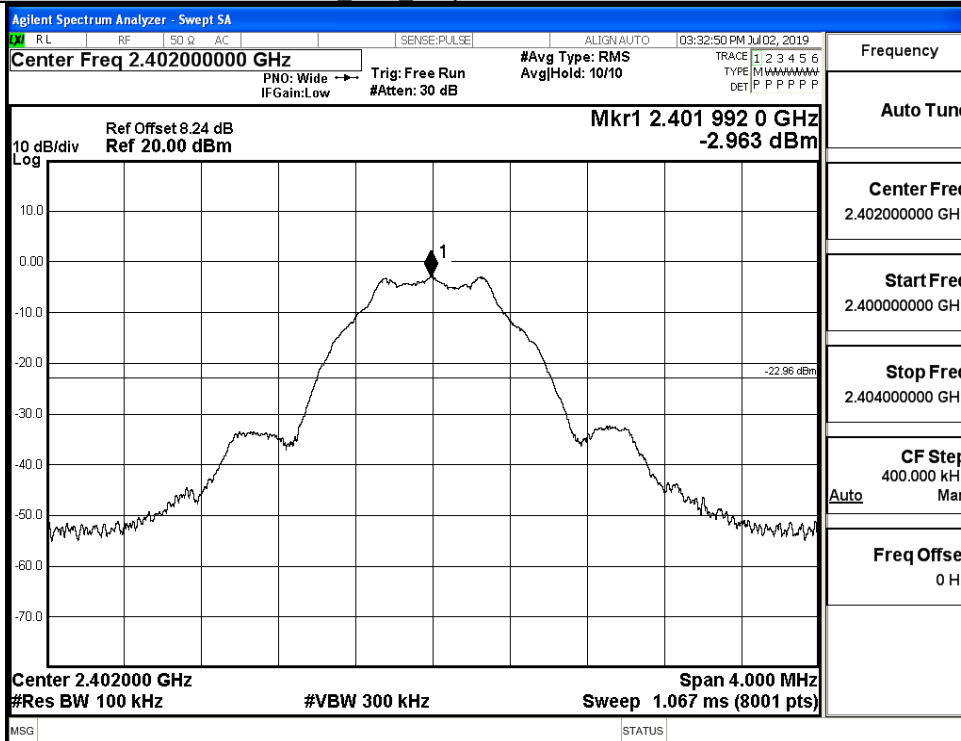


A.5 RF Conducted Spurious Emissions

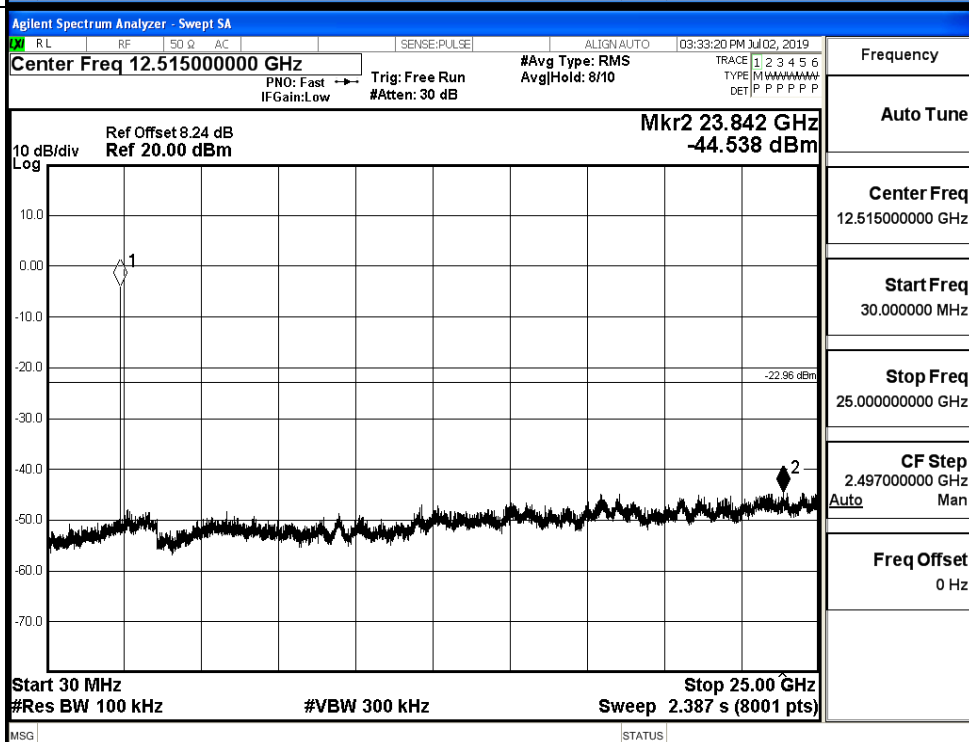
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.963	-44.538	-22.963	PASS
BT LE	MCH	-0.181	-43.458	-20.181	PASS
BT LE	HCH	-1.637	-44.245	-21.637	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

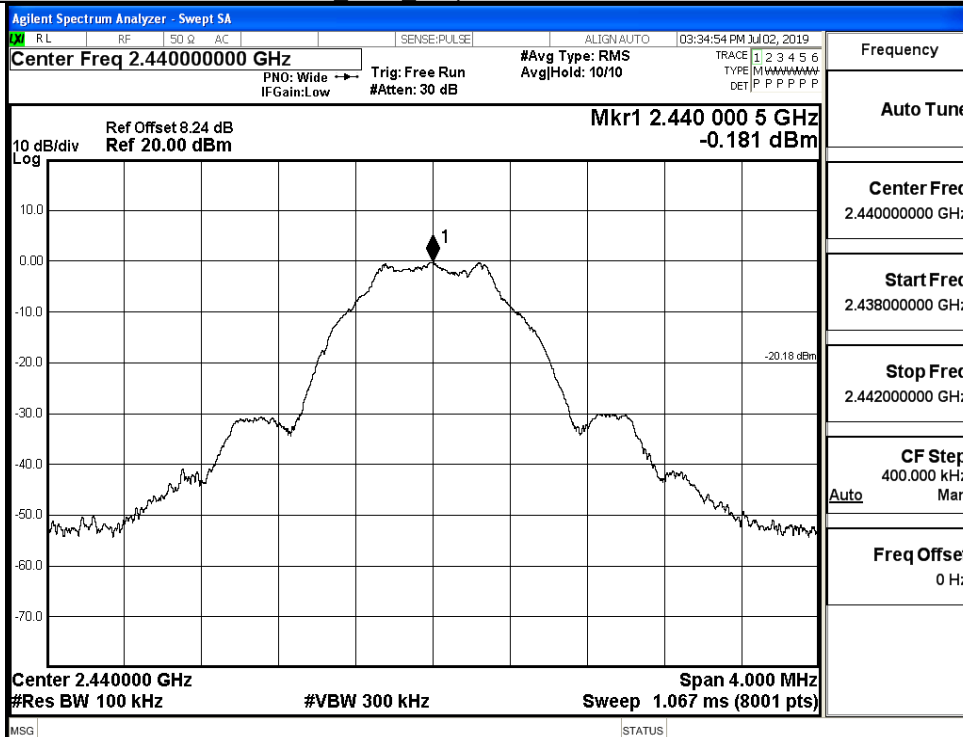


Puw/BT LE/LCH

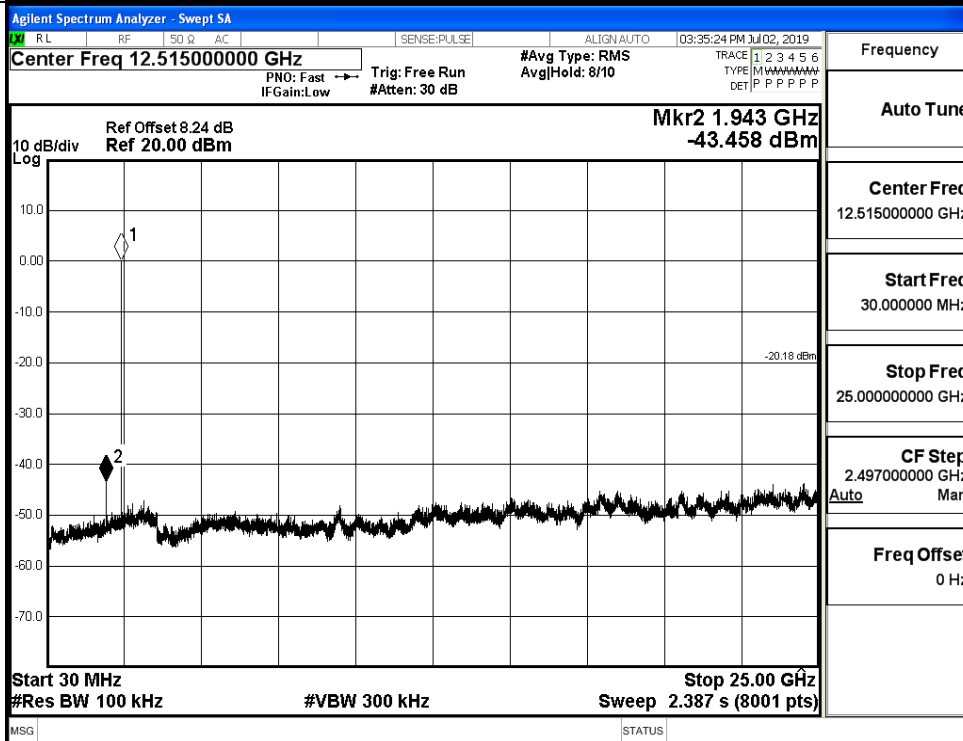


BT LE MCH Graphs

Pref/BT LE/MCH

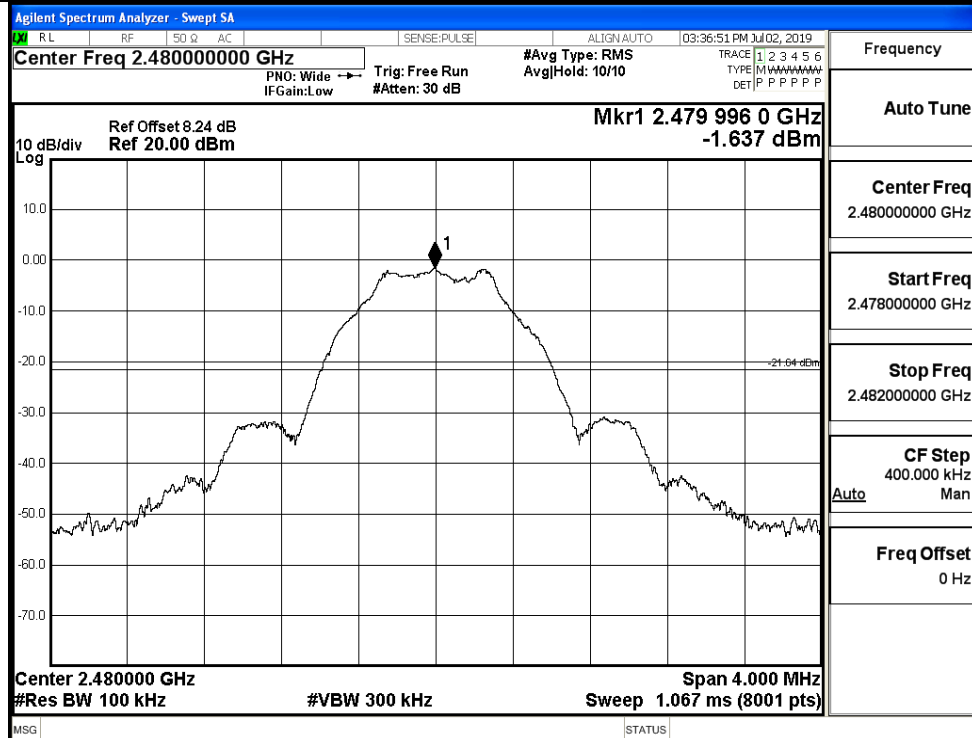


Puw/BT LE/MCH

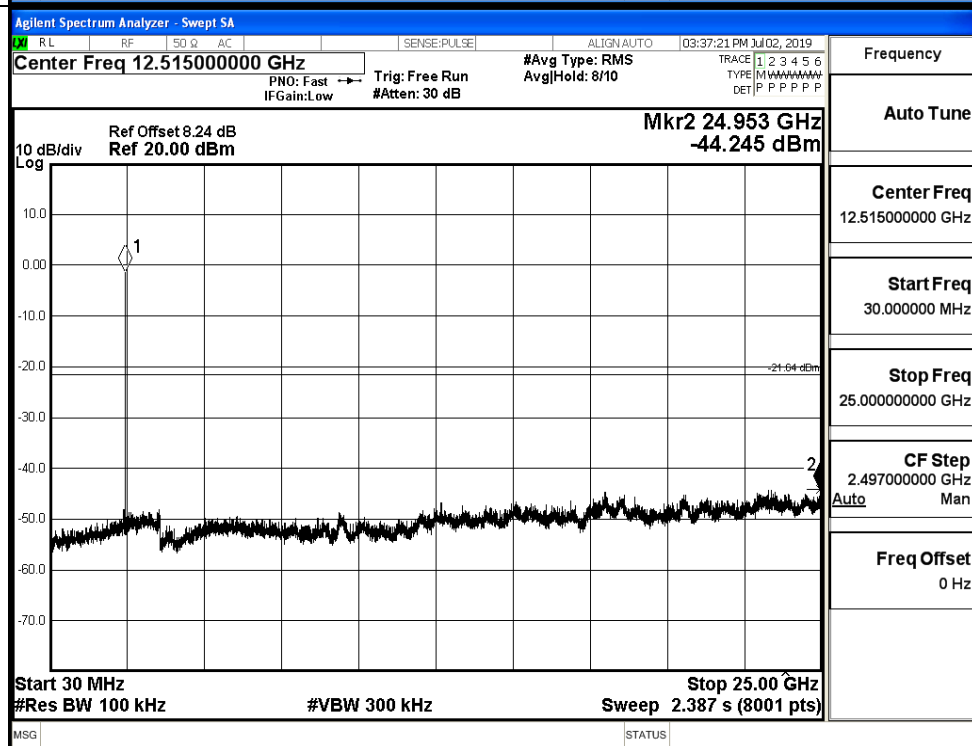


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

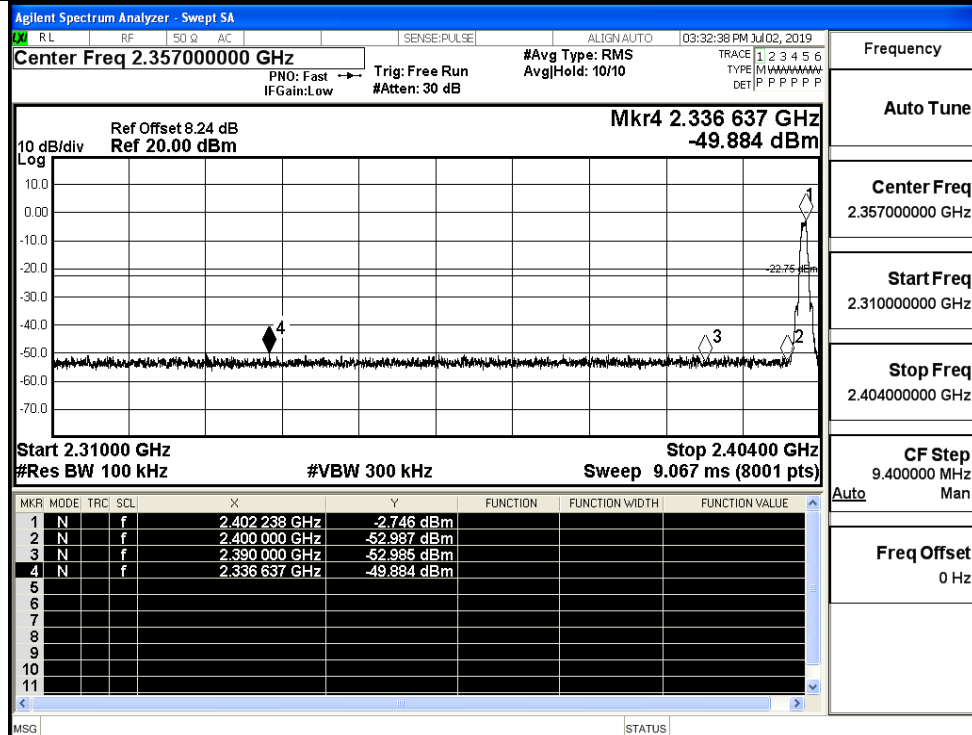


A.6 Band-edge for RF Conducted Emissions

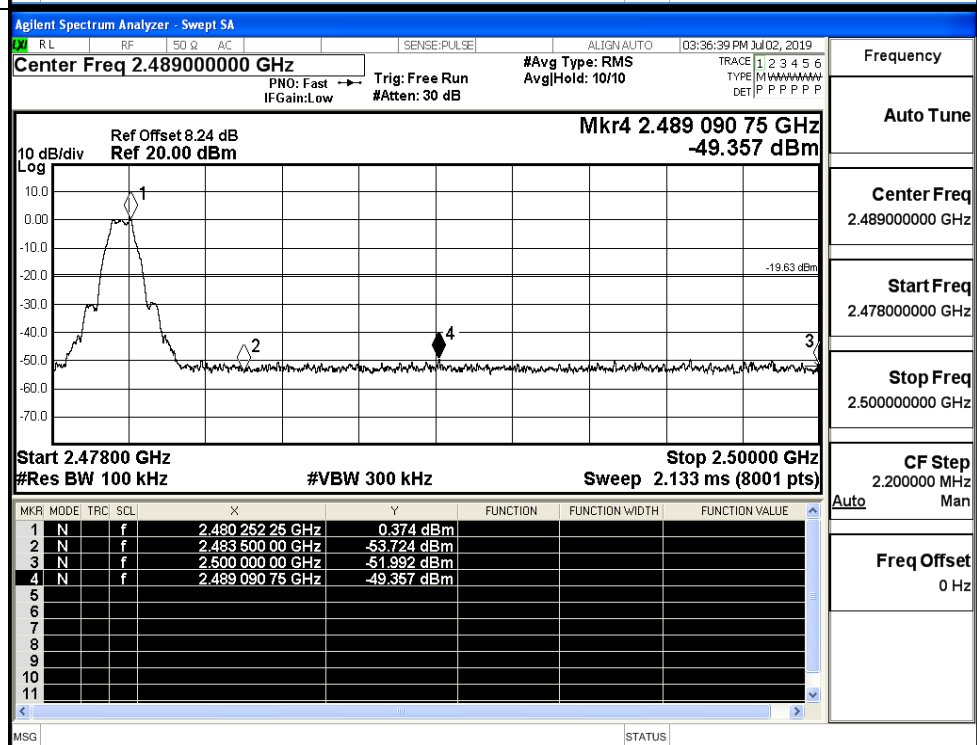
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.746	-49.884	-22.75	PASS
BT LE	HCH	0.374	-49.357	-19.63	PASS

Test Graphs

LCH



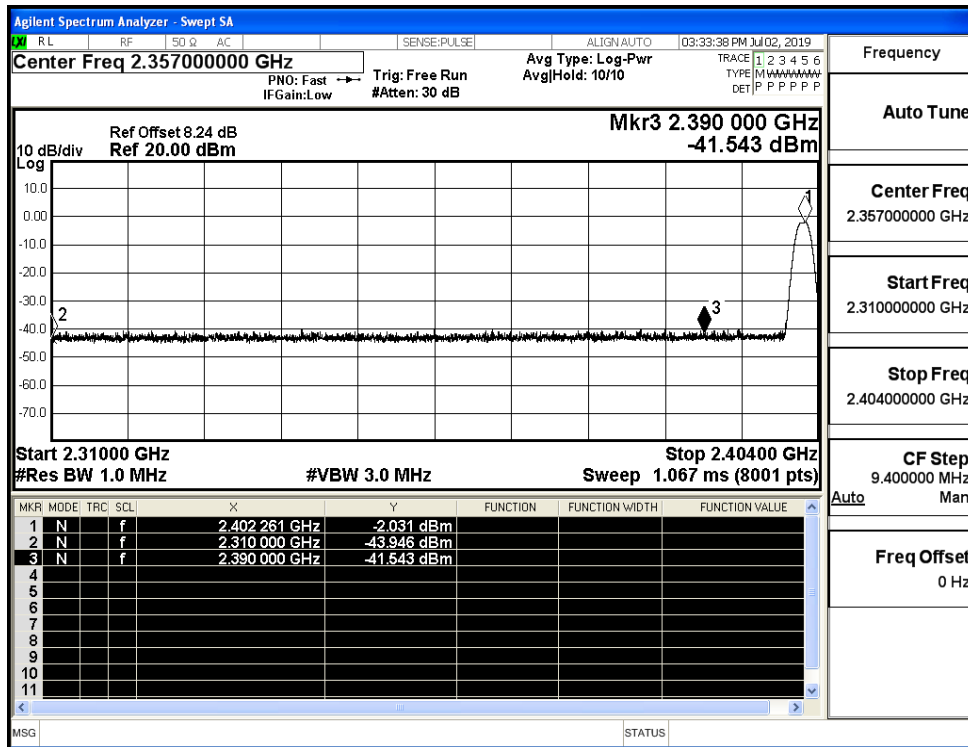
HCH



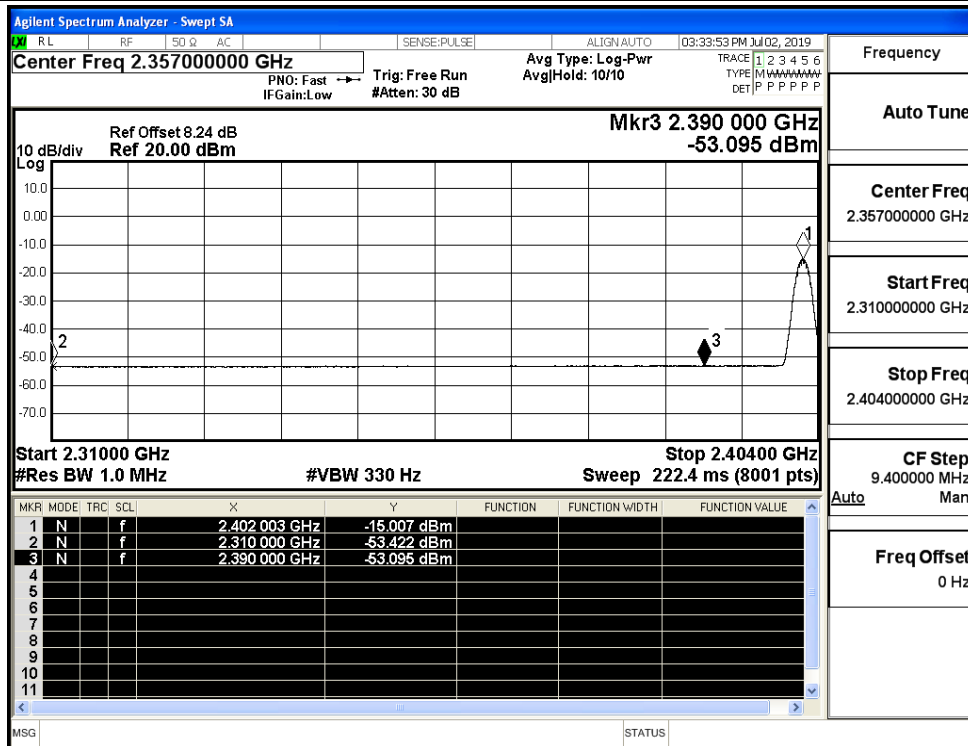
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-43.95	2.0	0	51.31	PEAK	74	PASS
		Ant1	2310.0	-53.42	2.0	0	41.84	AV	54	PASS
		Ant1	2390.0	-41.54	2.0	0	53.71	PEAK	74	PASS
		Ant1	2390.0	-53.10	2.0	0	42.16	AV	54	PASS
	2480	Ant1	2483.5	-41.67	2.0	0	53.58	PEAK	74	PASS
		Ant1	2483.5	-53.00	2.0	0	42.26	AV	54	PASS
		Ant1	2500.0	-42.99	2.0	0	52.26	PEAK	74	PASS
		Ant1	2500.0	-52.75	2.0	0	42.50	AV	54	PASS

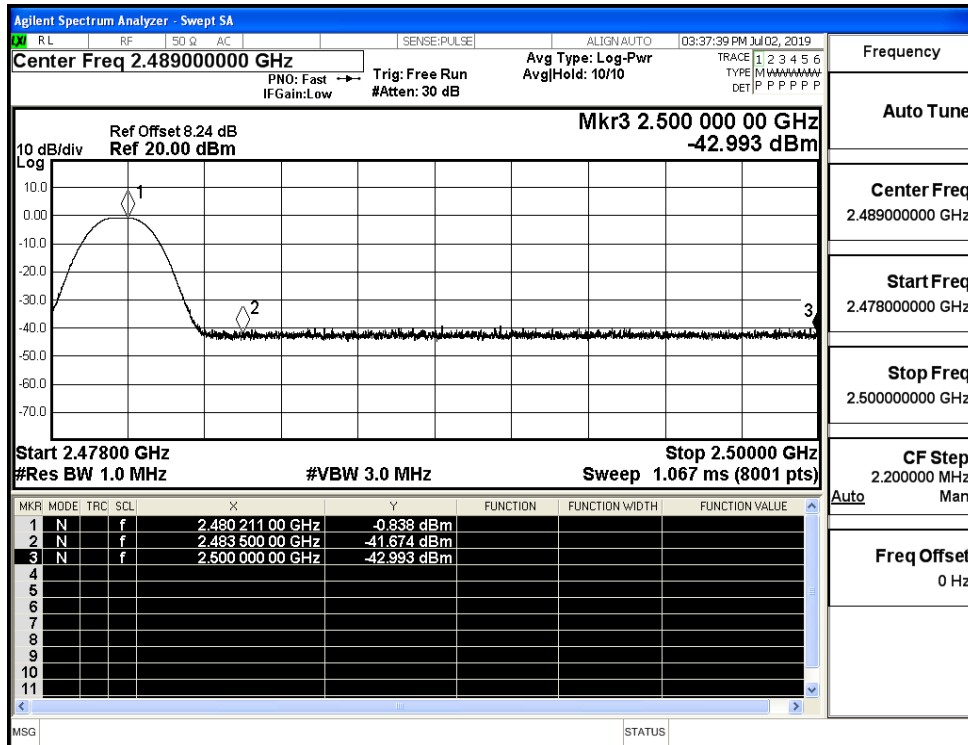
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

