

Appendix B

RF Test Data for BT V4.0(BT LE) (Conducted Measurement)

Product Name: RK3399 R Player

Trade Mark: STRATATACHE/SCALA

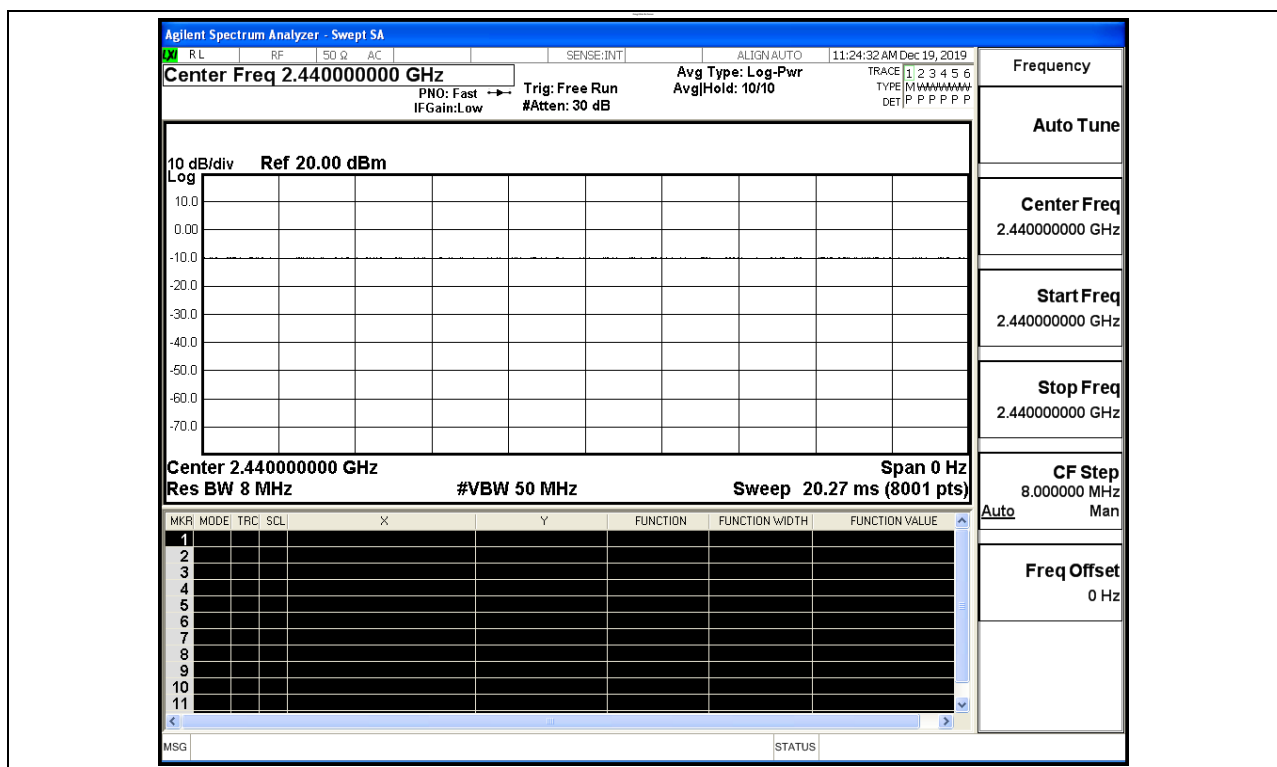
Test Model: SMPR

Environmental Conditions

Temperature:	24.5°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Scout Wu
Supervised by:	Tom.Liu

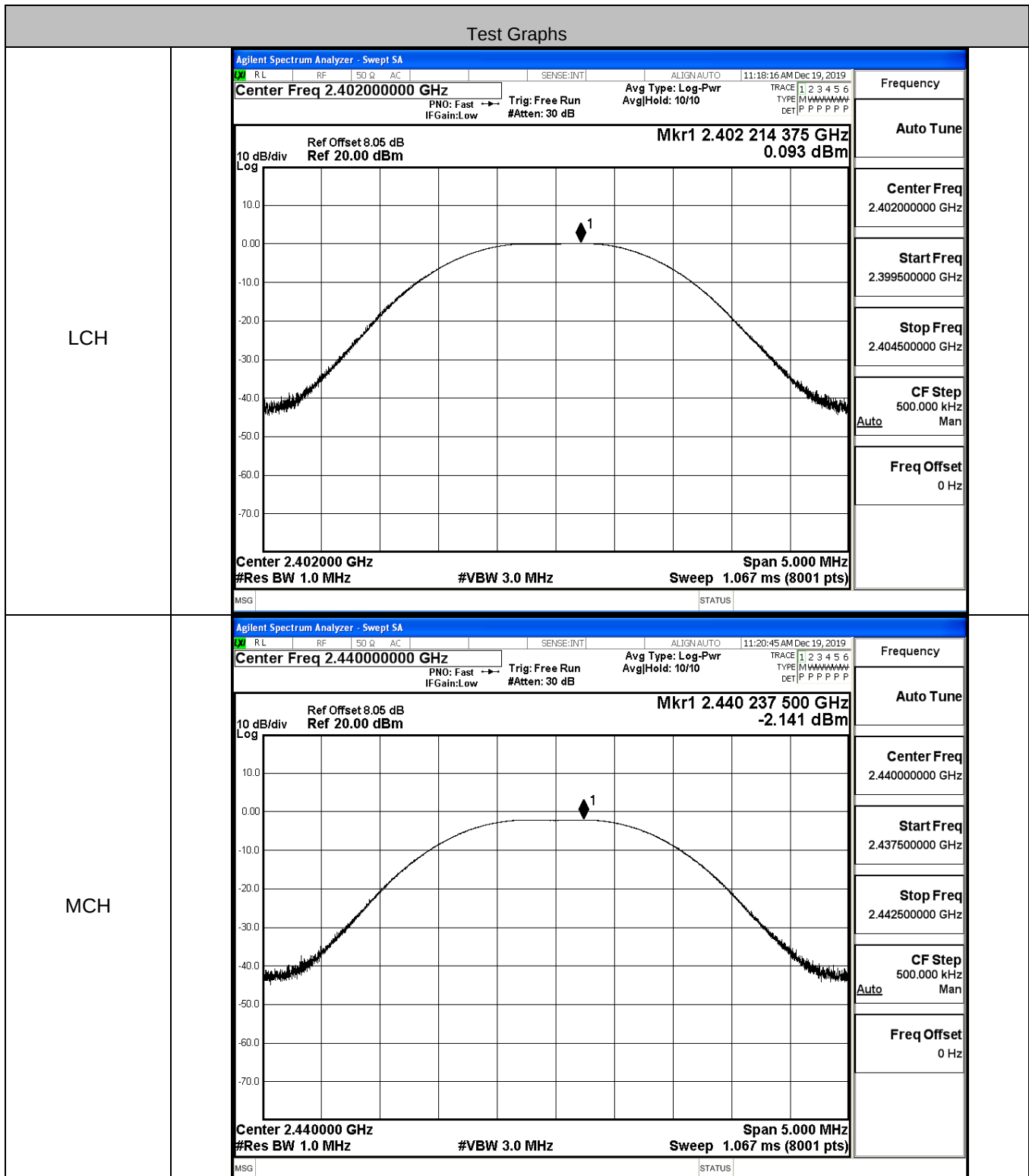
B.1 Duty Cycle

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

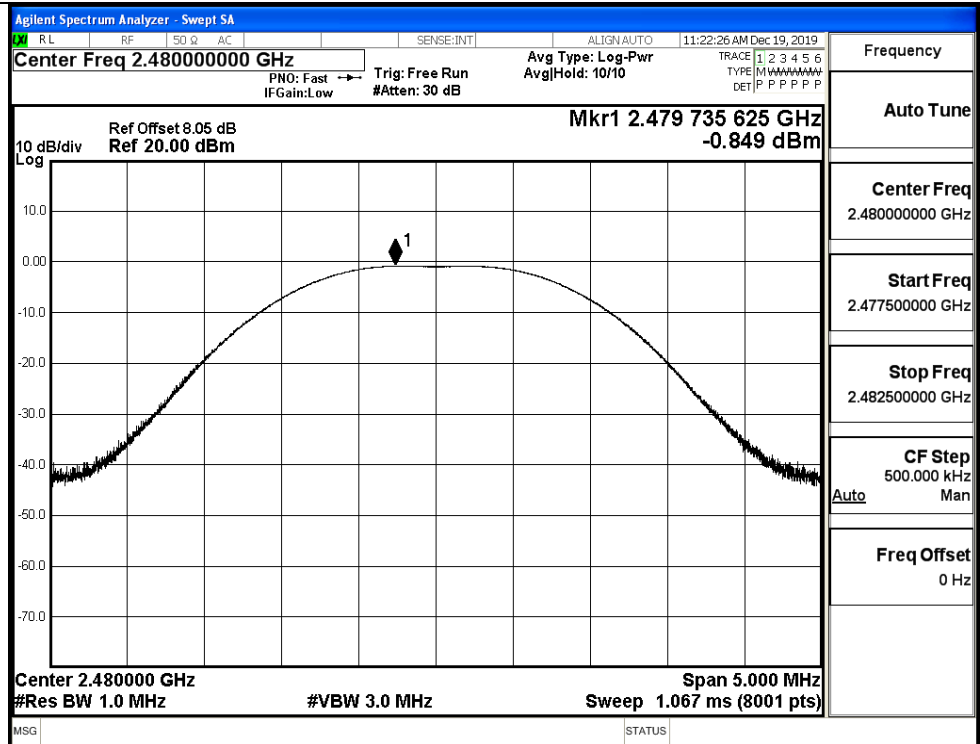


B.2 Maximum Conducted Peak Output Power

Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	0.093	30	PASS
BT LE	MCH	-2.141	30	PASS
BT LE	HCH	-0.849	30	PASS



HCH

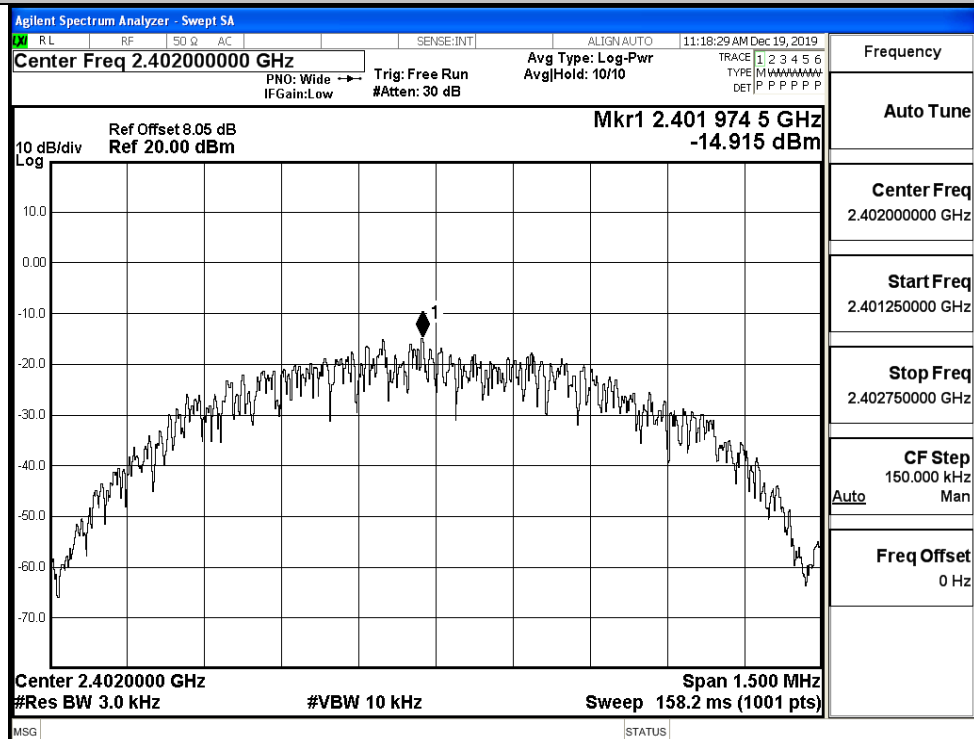


B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.915	8	PASS
BT LE	MCH	-17.138	8	PASS
BT LE	HCH	-15.797	8	PASS

Test Graphs

LCH

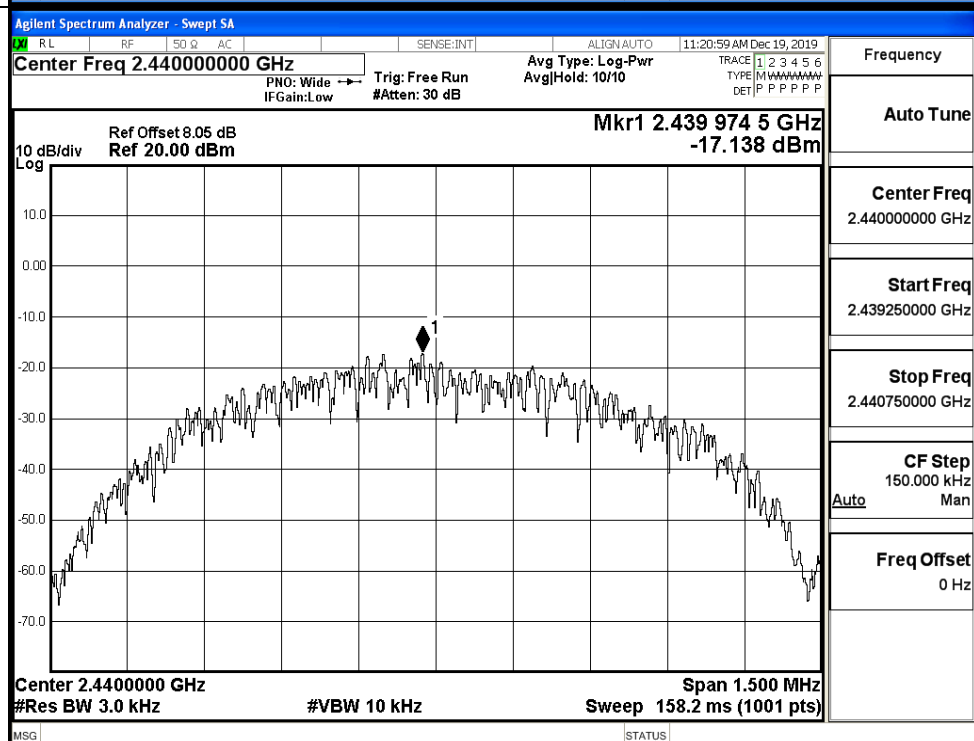


Frequency

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

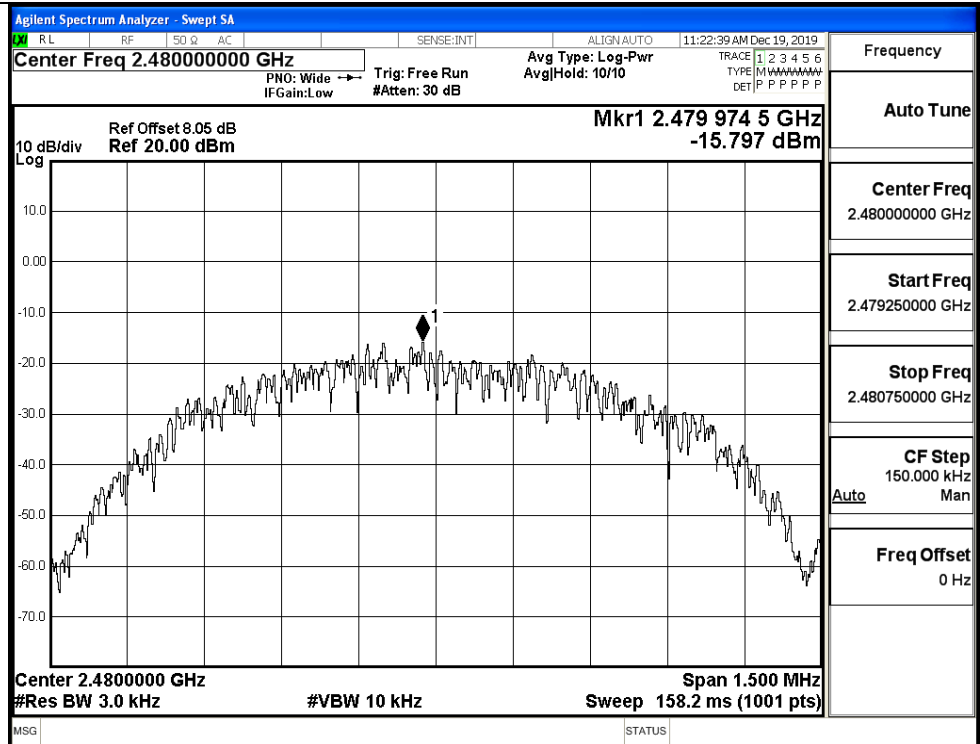


Frequency

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

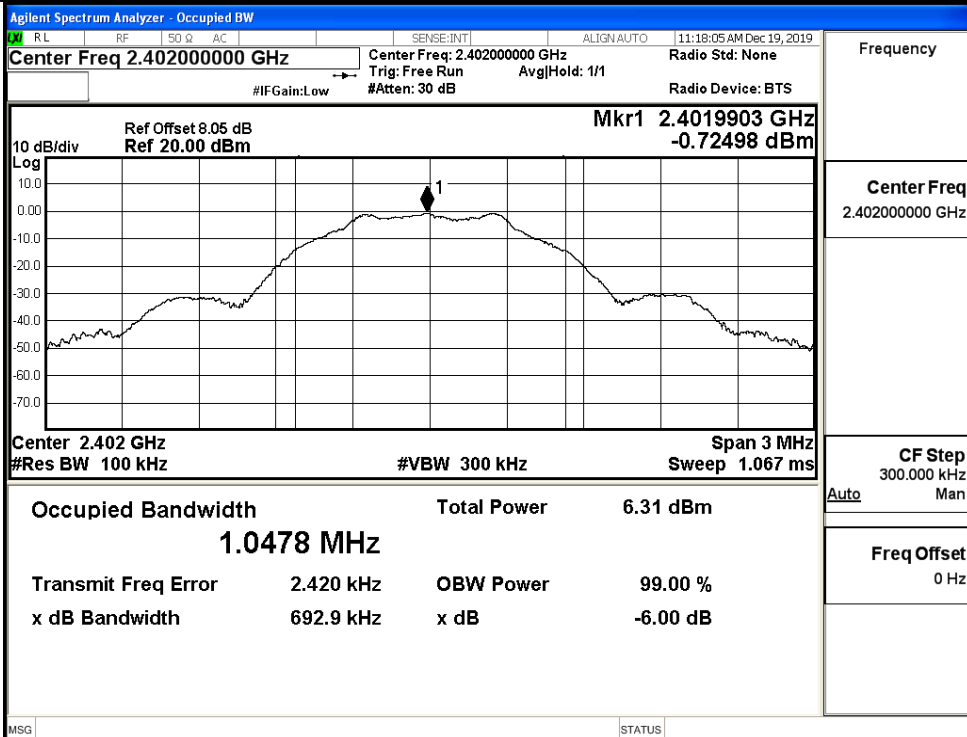


B.4 6dB Bandwidth

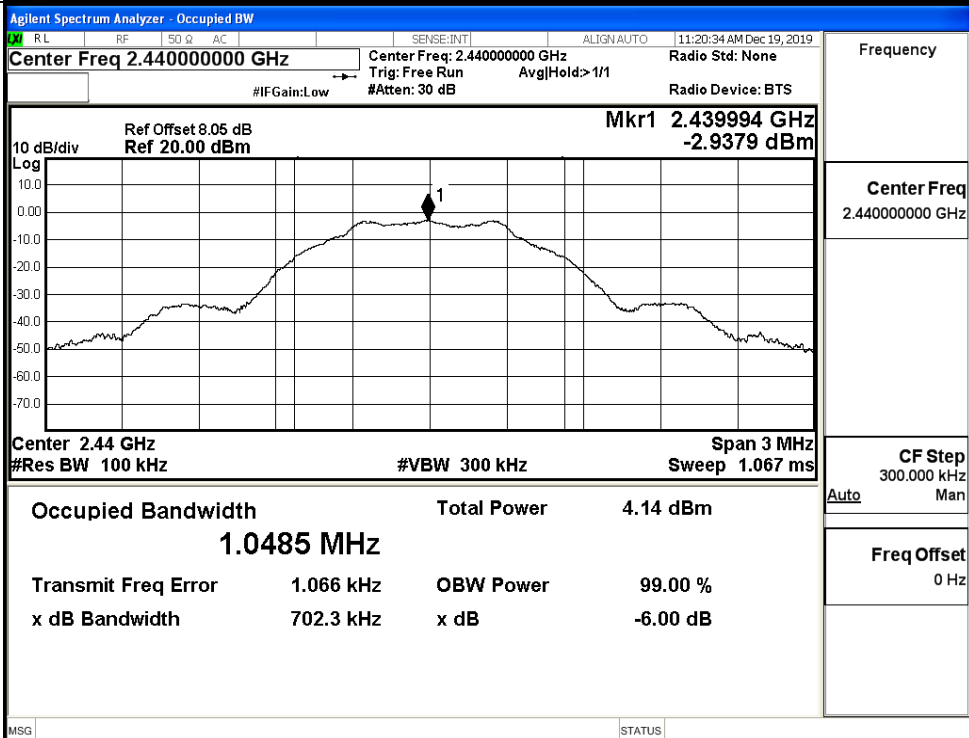
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6929	≥ 0.5	PASS
BT LE	MCH	0.7023	≥ 0.5	PASS
BT LE	HCH	0.7032	≥ 0.5	PASS

Test Graphs

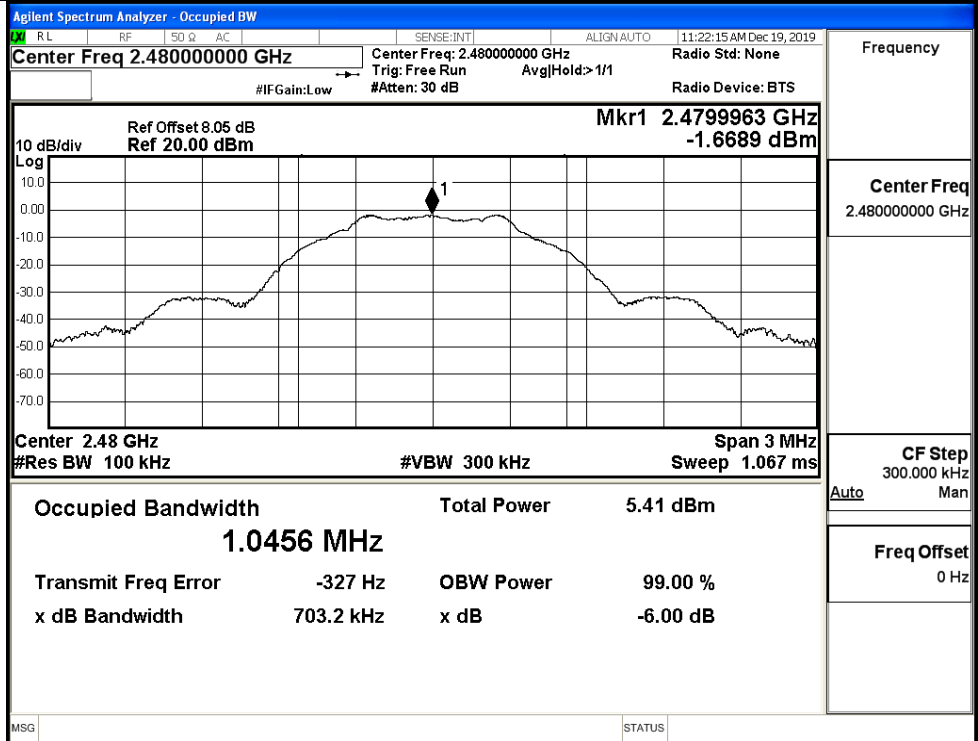
LCH



MCH



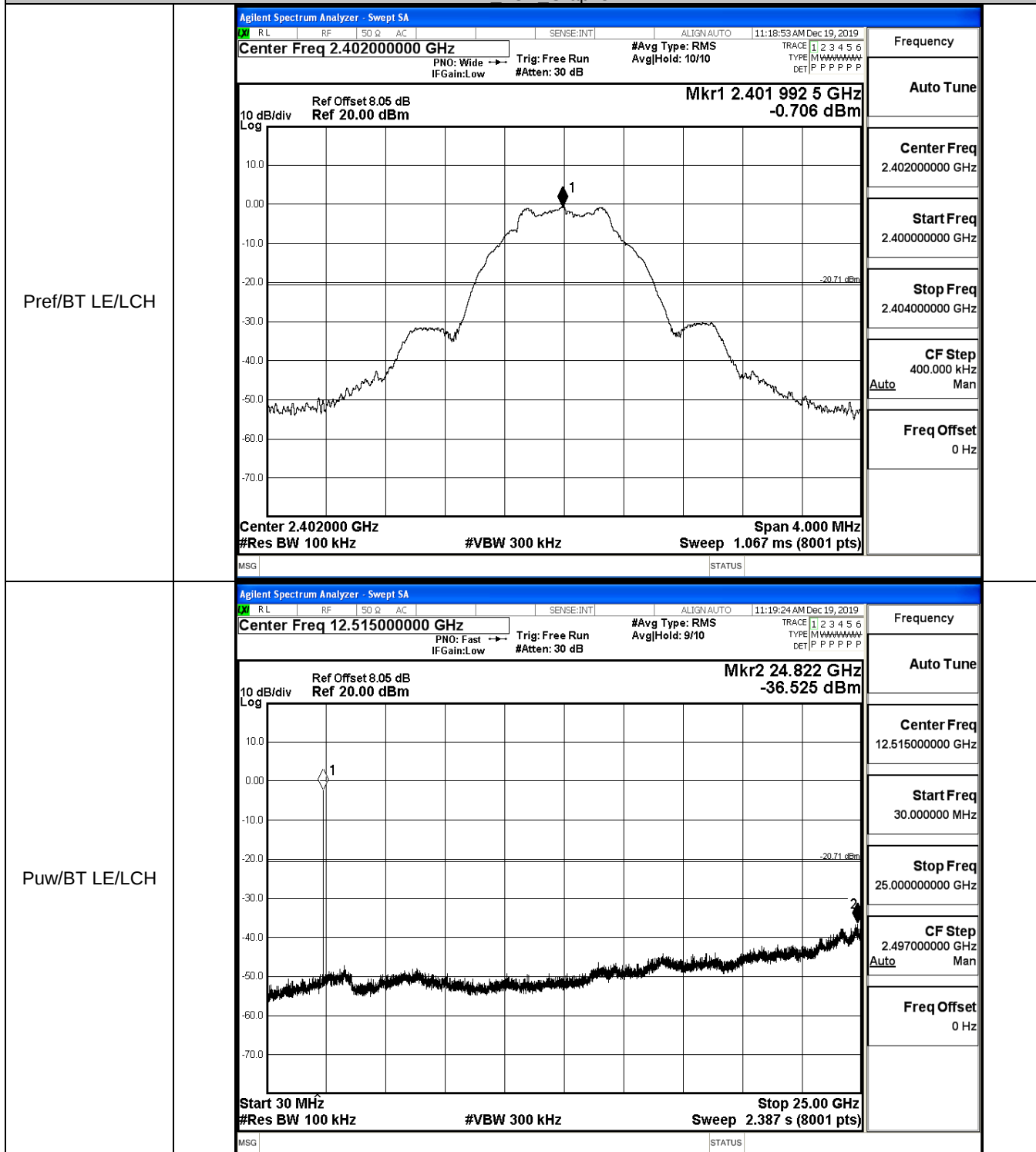
HCH



B.5 RF Conducted Spurious Emissions

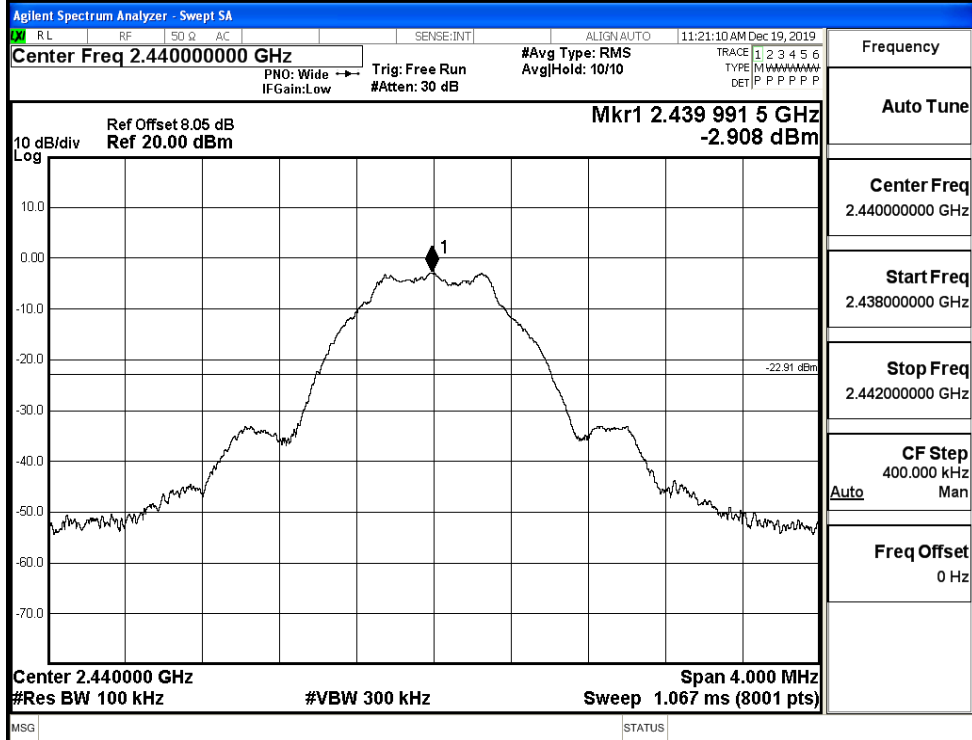
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.706	-36.525	-20.706	PASS
BT LE	MCH	-2.908	-36.110	-22.908	PASS
BT LE	HCH	-1.622	-37.277	-21.622	PASS

BT LE LCH Graphs

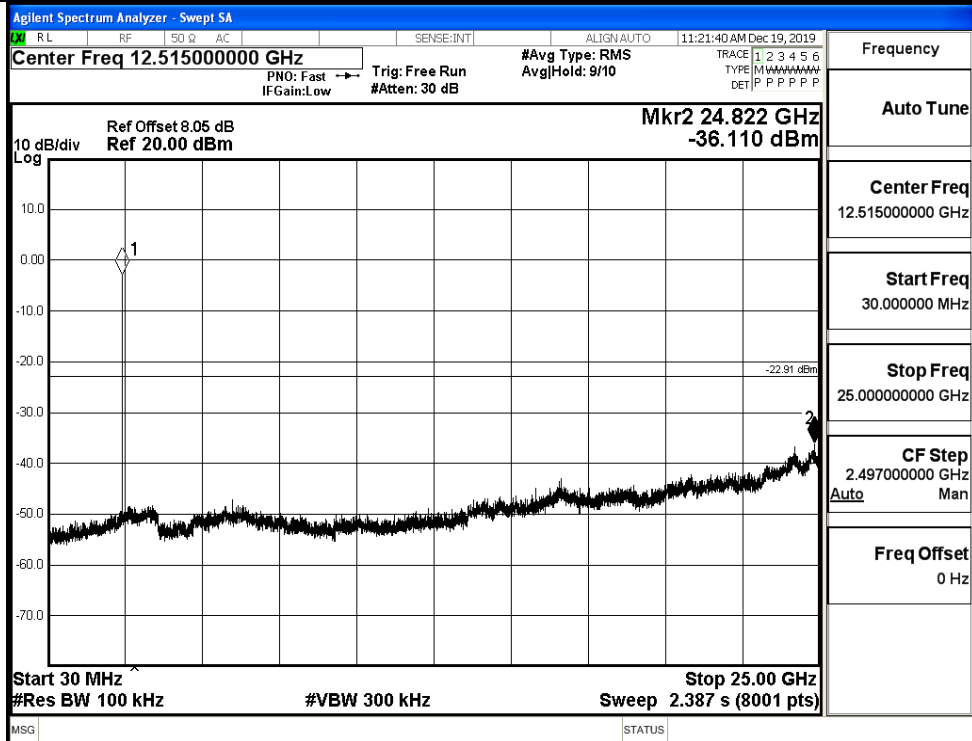


BT LE MCH Graphs

Pref/BT LE/MCH

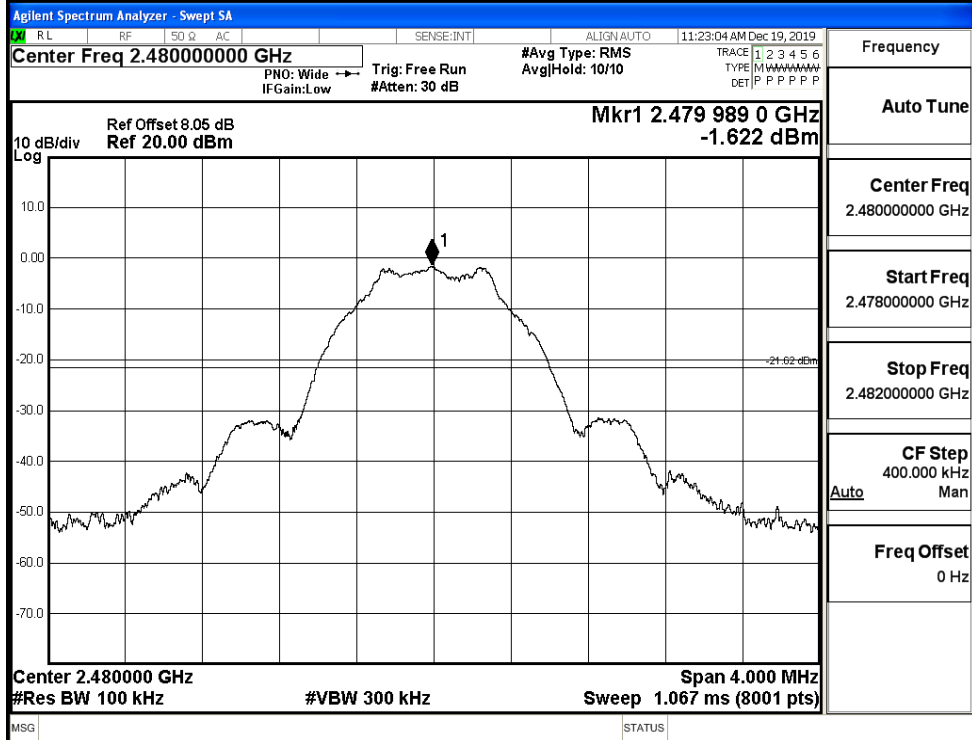


Puw/BT LE/MCH

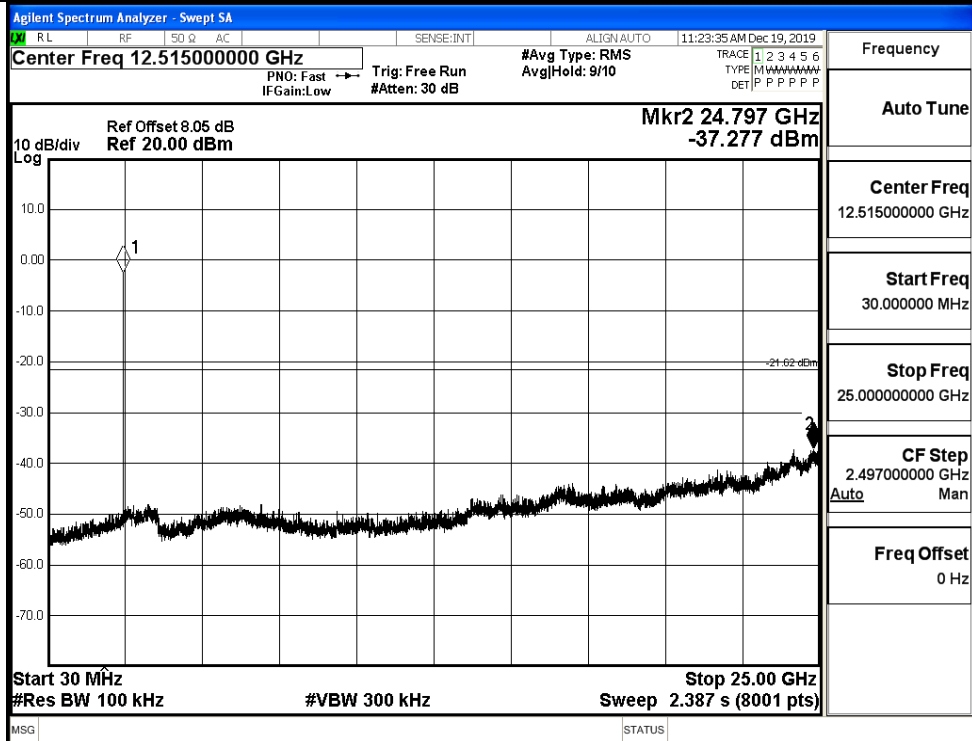


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

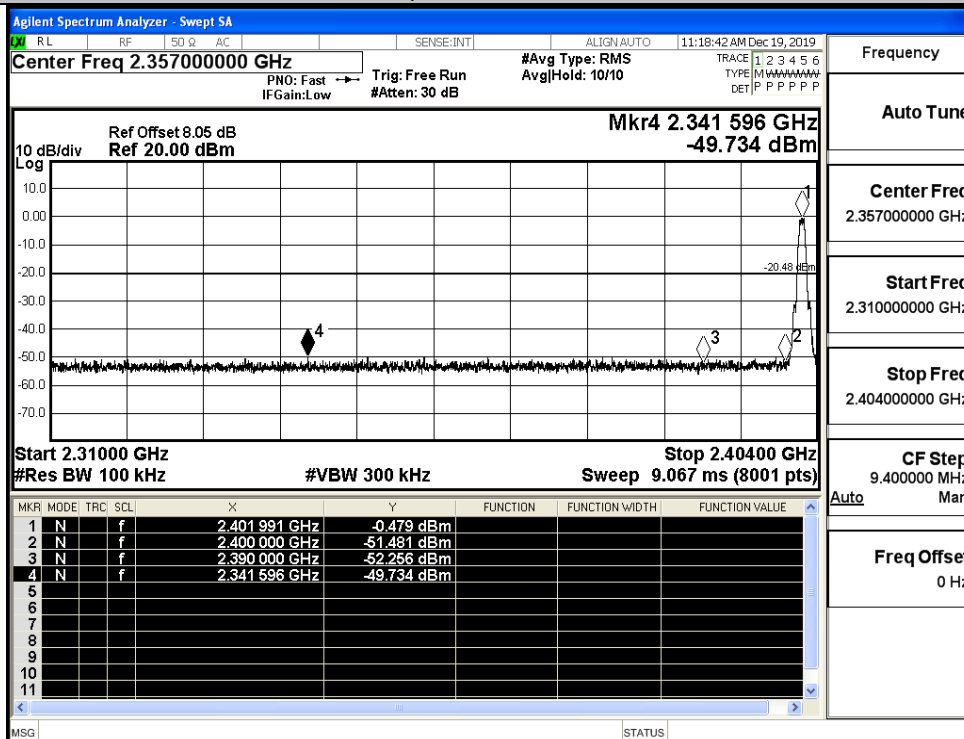


B.6 Band-edge for RF Conducted Emissions

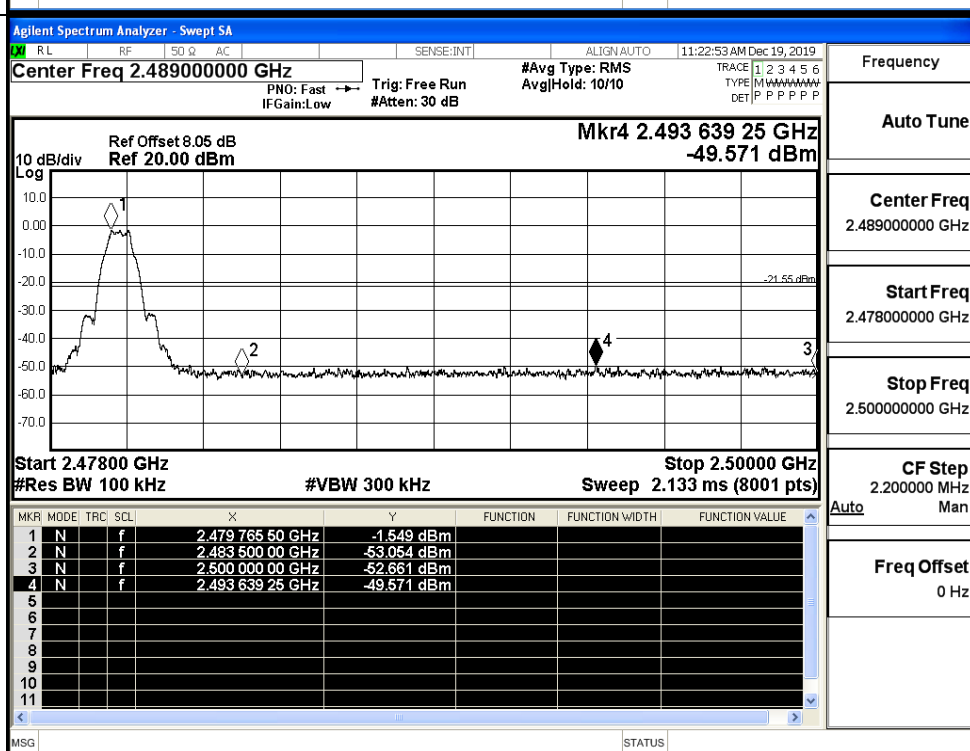
Mode	Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.479	-49.734	-20.48	PASS
BT LE	HCH	-1.549	-49.571	-21.55	PASS

Test Graphs

LCH



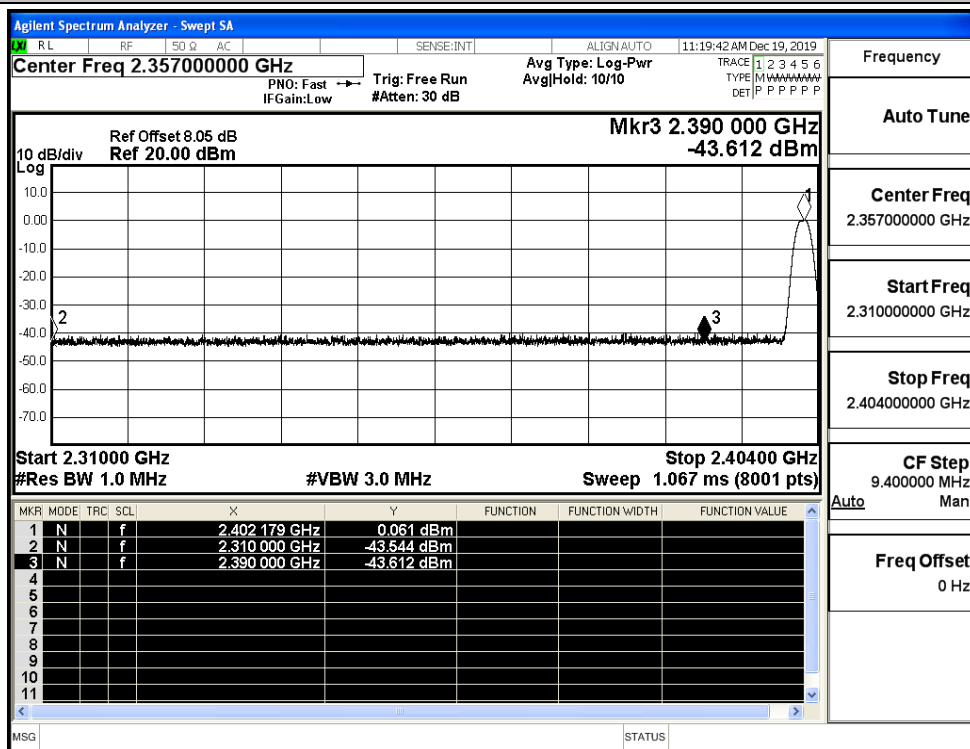
HCH



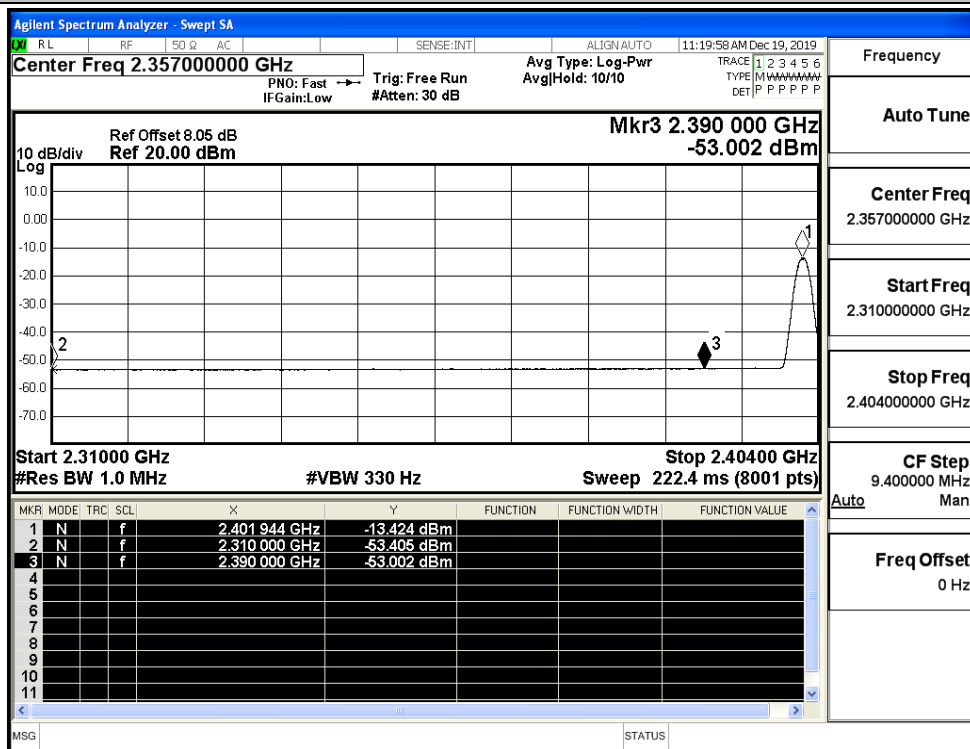
B.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BT LE	2402	2310.0	-43.54	2.0	0	53.71	PEAK	74	PASS
		2310.0	-53.41	2.0	0	43.85	AV	54	PASS
		2390.0	-43.61	2.0	0	53.65	PEAK	74	PASS
		2390.0	-53.00	2.0	0	44.26	AV	54	PASS
	2480	2483.5	-42.74	2.0	0	54.52	PEAK	74	PASS
		2483.5	-52.66	2.0	0	44.60	AV	54	PASS
		2500.0	-42.58	2.0	0	54.68	PEAK	74	PASS
		2500.0	-52.43	2.0	0	44.83	AV	54	PASS

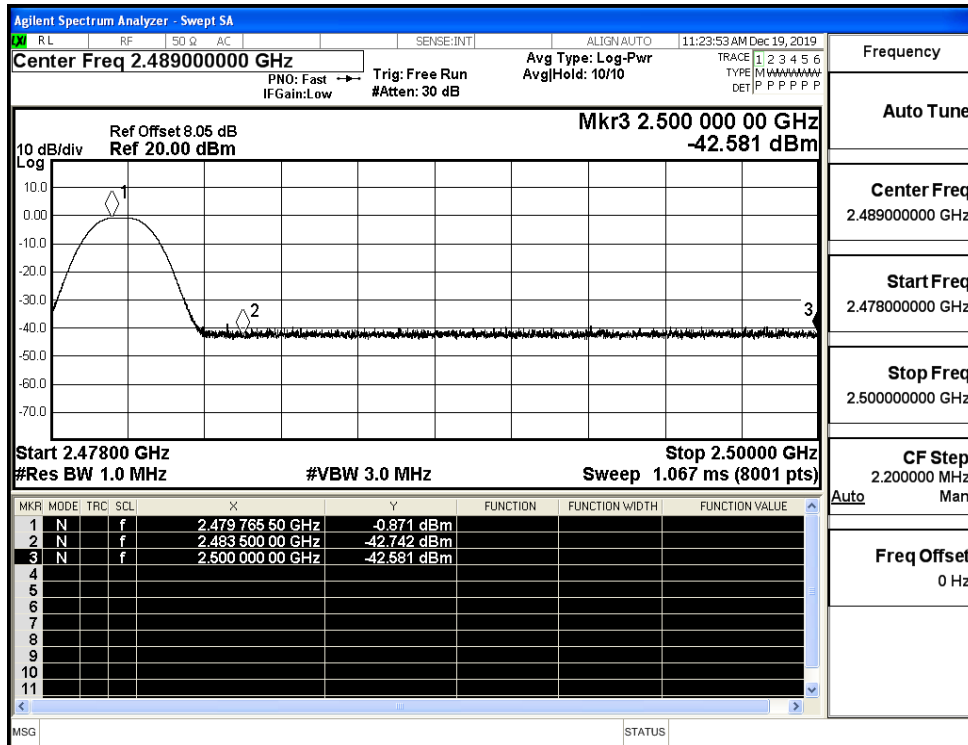
Restrict-band band-edge measurements_BT LE_2402_PEAK



Restrict-band band-edge measurements_BT LE_2402_AV



Restrict-band band-edge measurements_BT LE_2480 _PEAK



Restrict-band band-edge measurements_BT LE_2480 _AV

