

Appendix B

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

Product Name: HYUNDAI Mini PC

Trade Mark: HYUNDAI

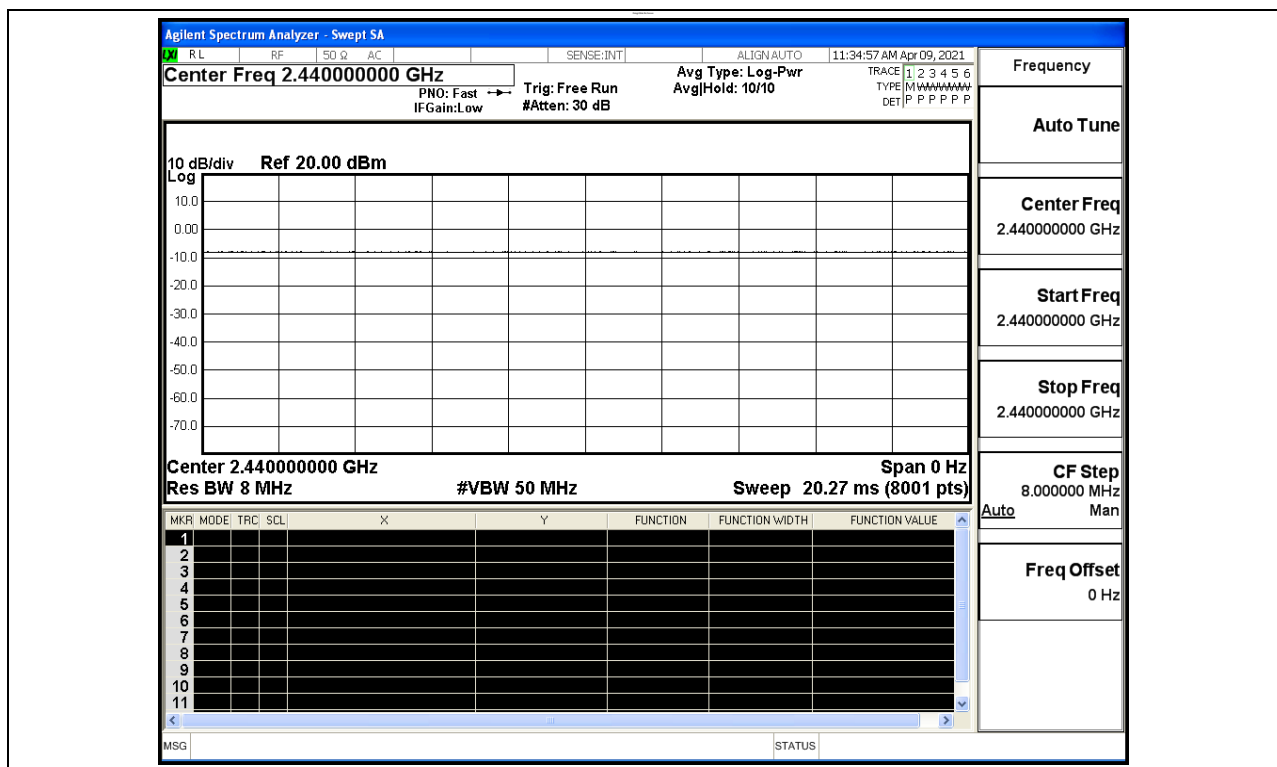
Test Model: HTN4020MPC

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

B.1 Duty Cycle

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

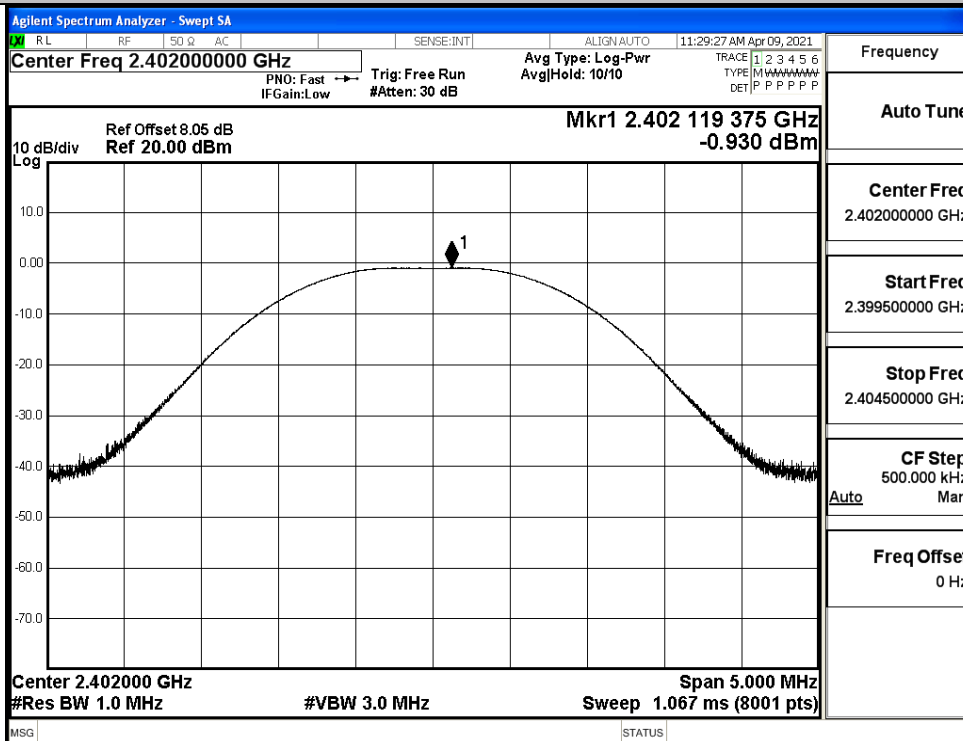


B.2 Maximum Conducted Peak Output Power

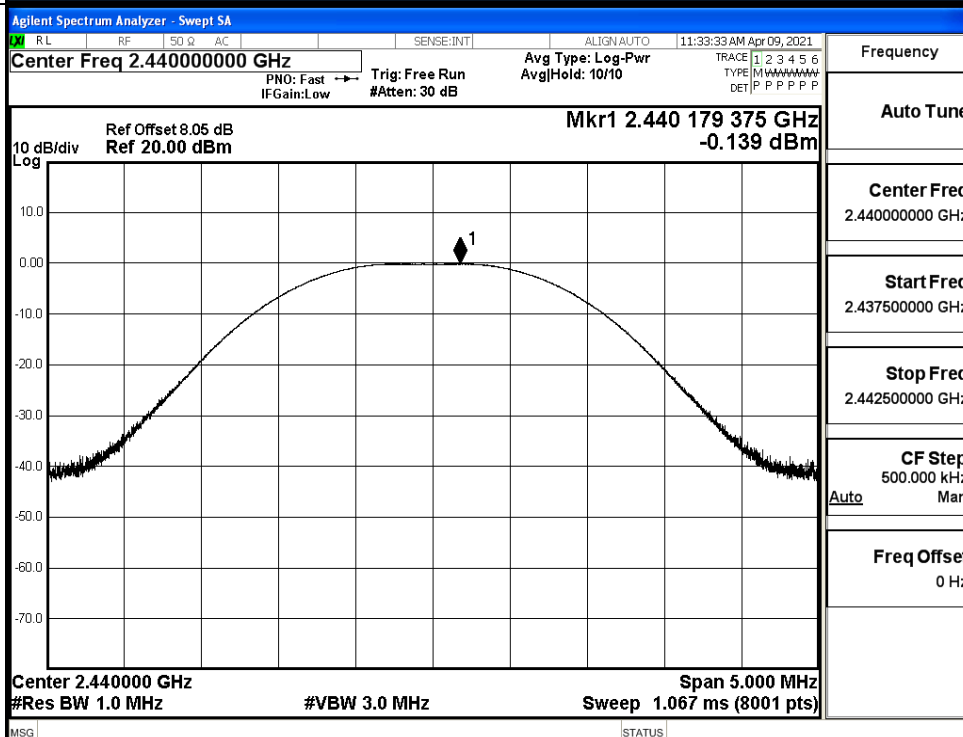
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-0.93	21	PASS
BT LE	MCH	-0.139	21	PASS
BT LE	HCH	0.013	21	PASS

Test Graphs

LCH



MCH

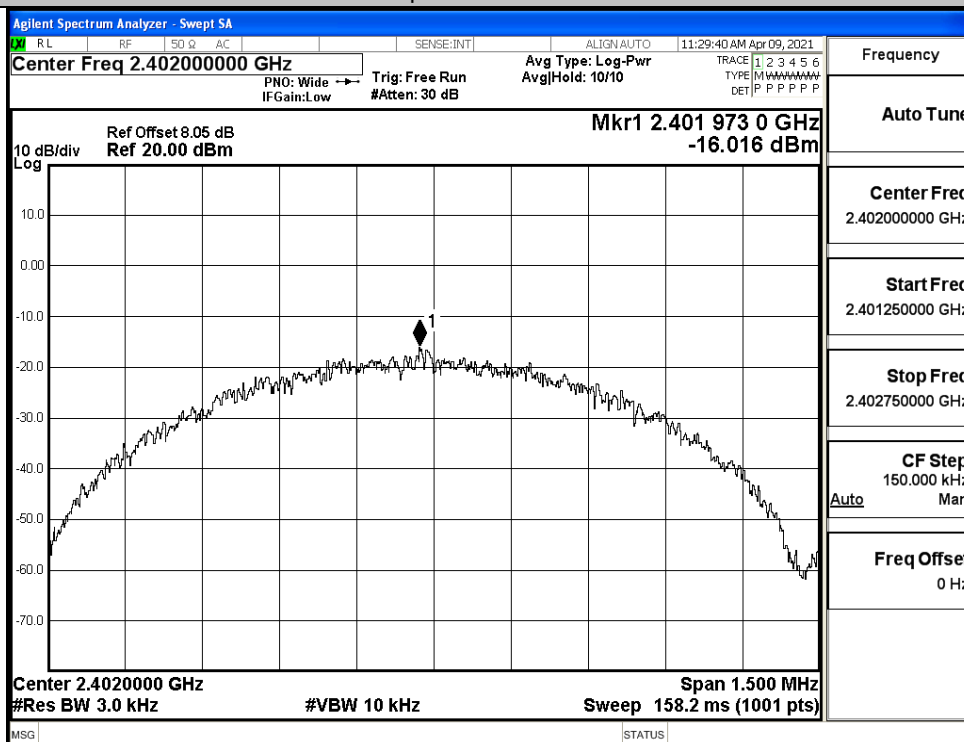


B.3 Maximum Power Spectral Density

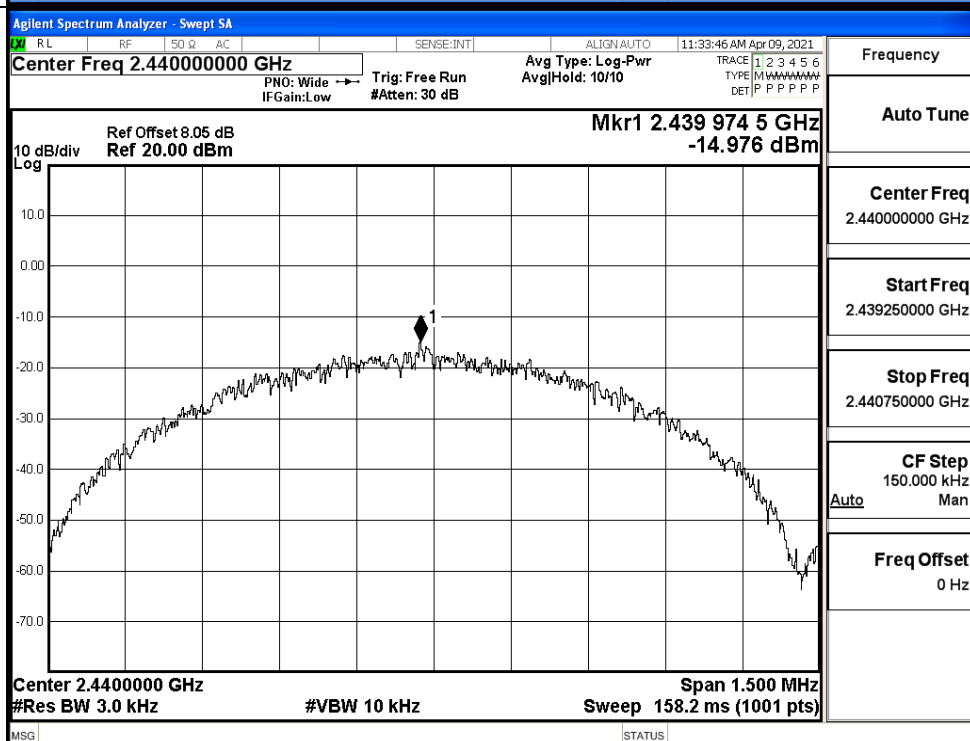
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.016	8	PASS
BT LE	MCH	-14.976	8	PASS
BT LE	HCH	-14.297	8	PASS

Test Graphs

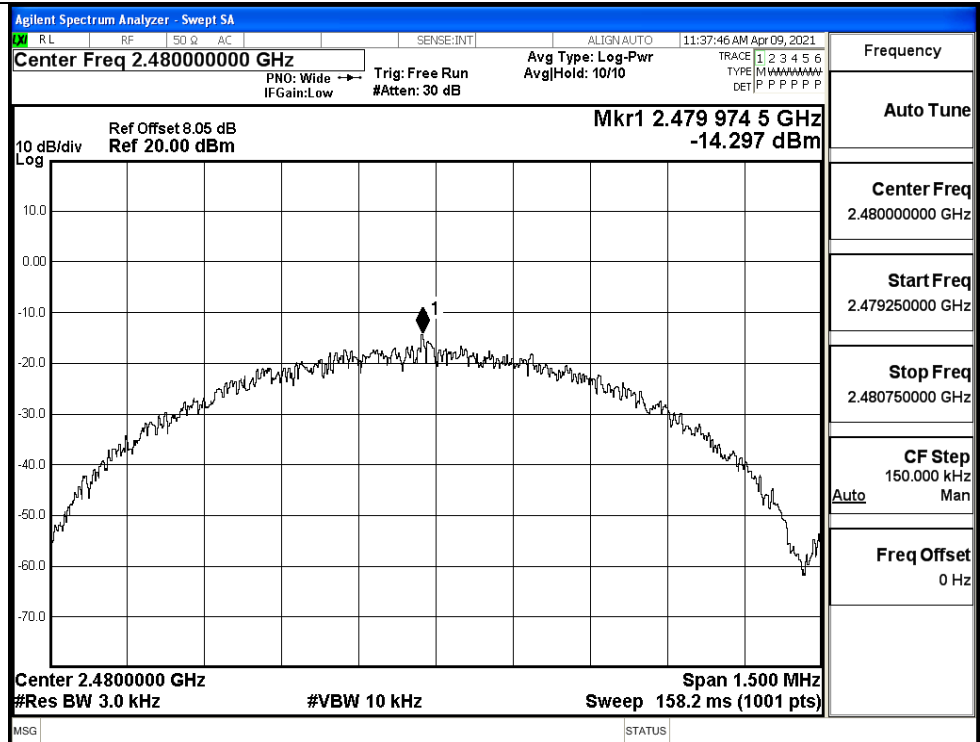
LCH



MCH



HCH

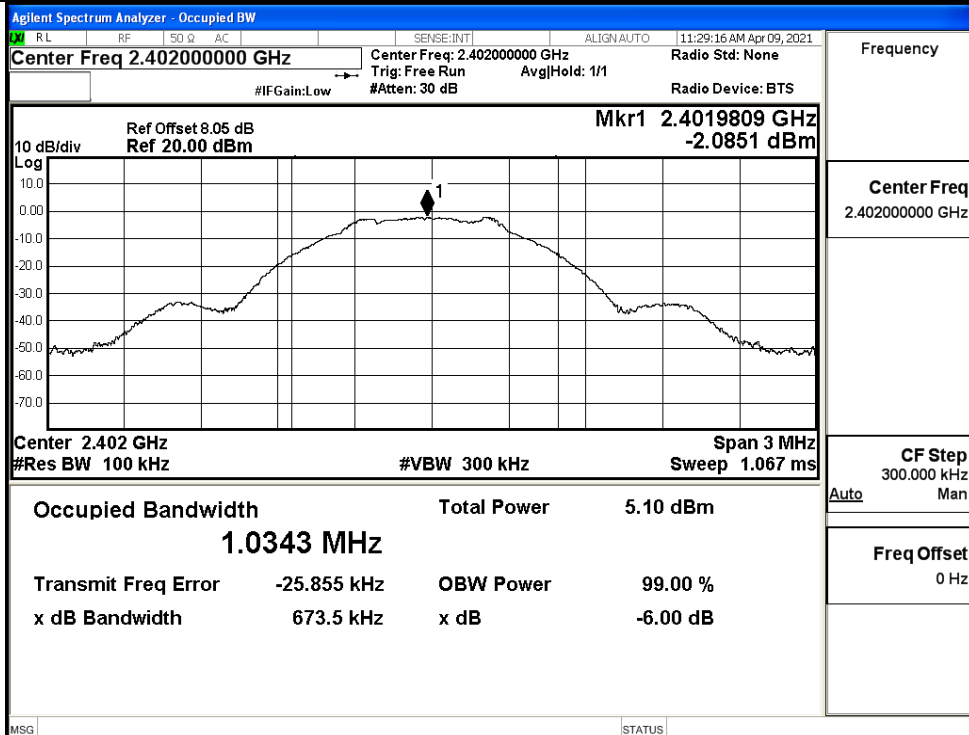


B.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6735	≥ 0.5	PASS
BT LE	MCH	0.6387	≥ 0.5	PASS
BT LE	HCH	0.6482	≥ 0.5	PASS

Test Graphs

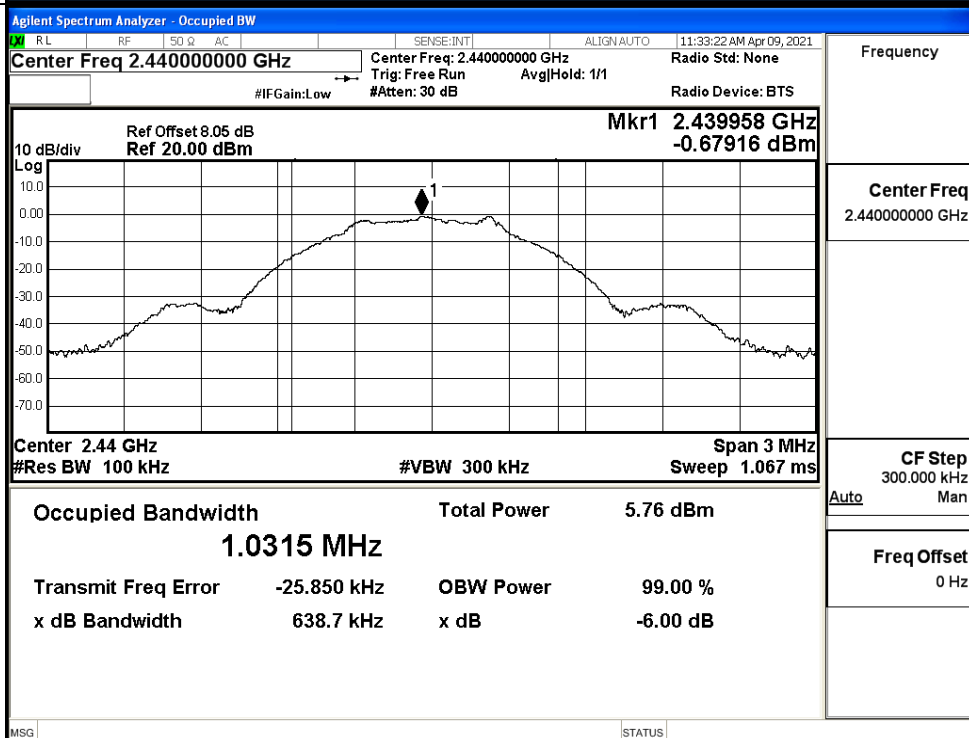
LCH



Frequency

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

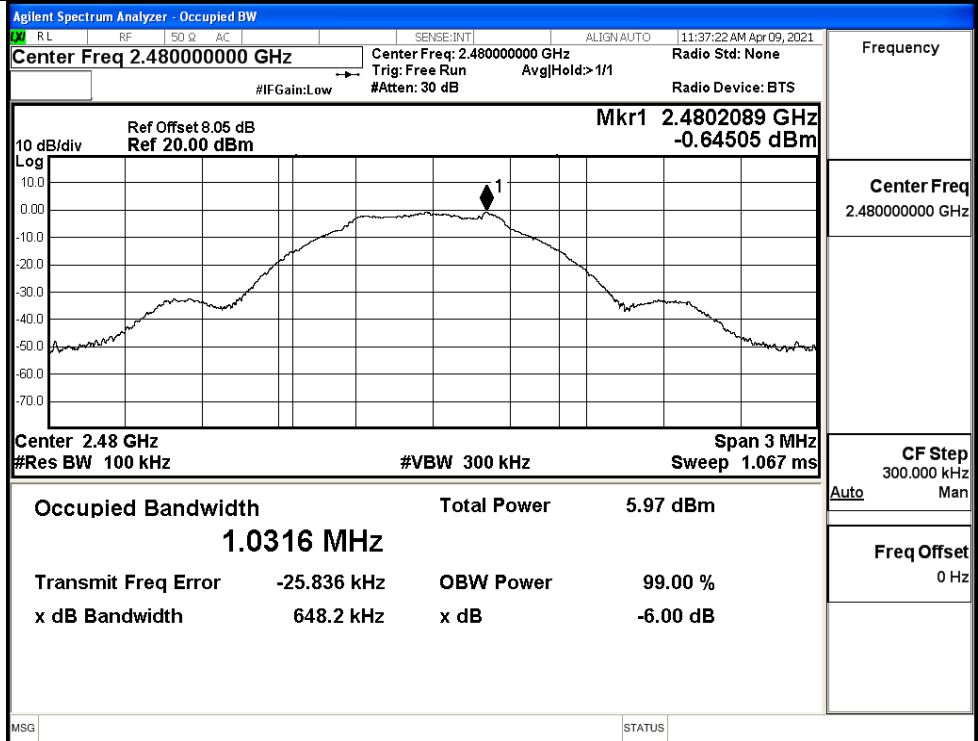
MCH



Frequency

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

HCH

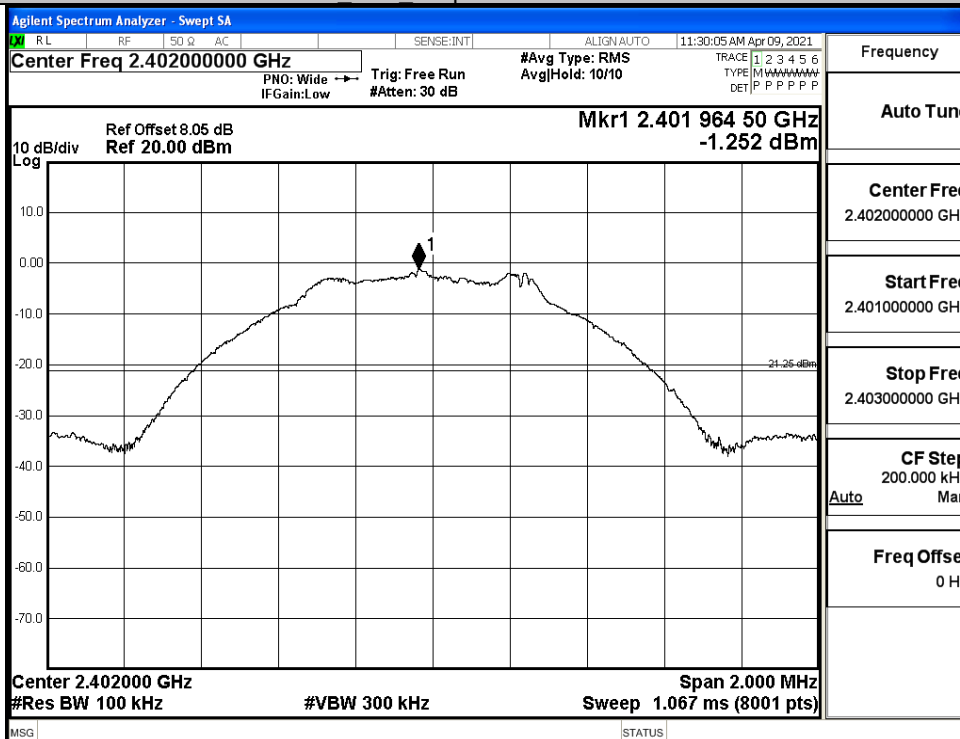


B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.252	-37.496	-21.252	PASS
BT LE	MCH	-0.632	-37.719	-20.632	PASS
BT LE	HCH	-0.316	-37.727	-20.316	PASS

BT LE LCH Graphs

Pref/BT LE/LCH

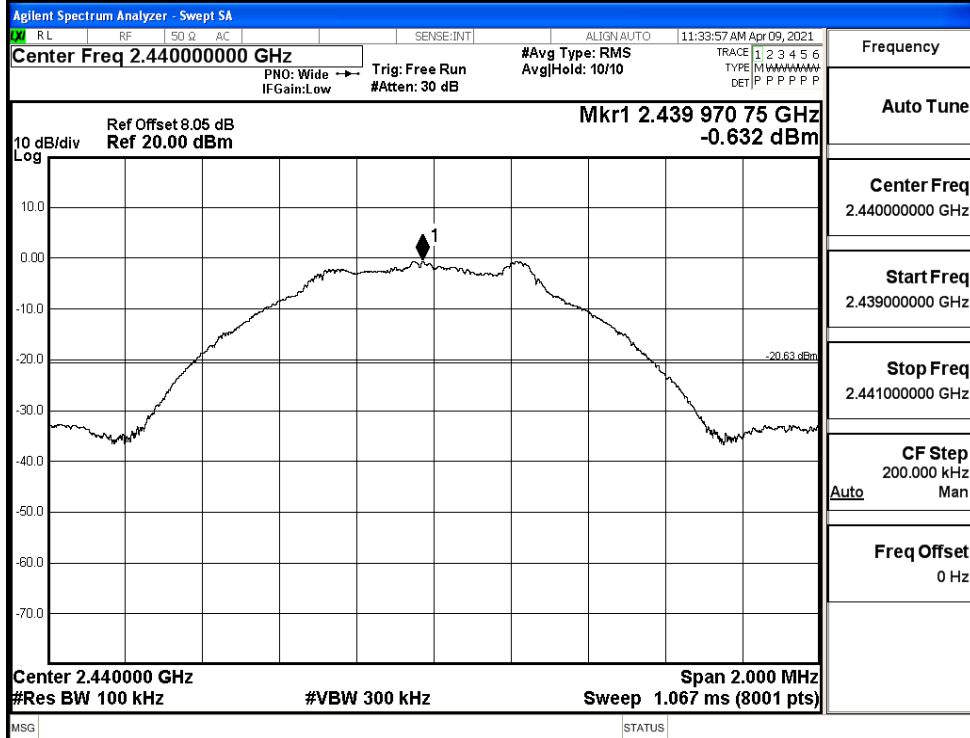


Puw/BT LE/LCH



BT LE MCH Graphs

Pref/BT LE/MCH

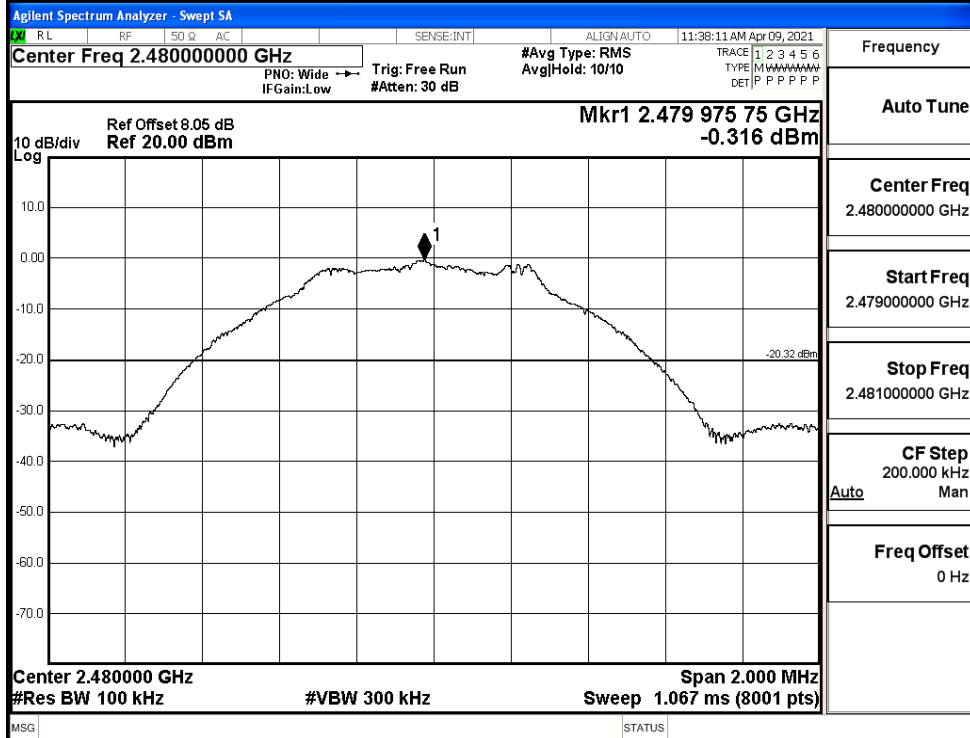


Puw/BT LE/MCH

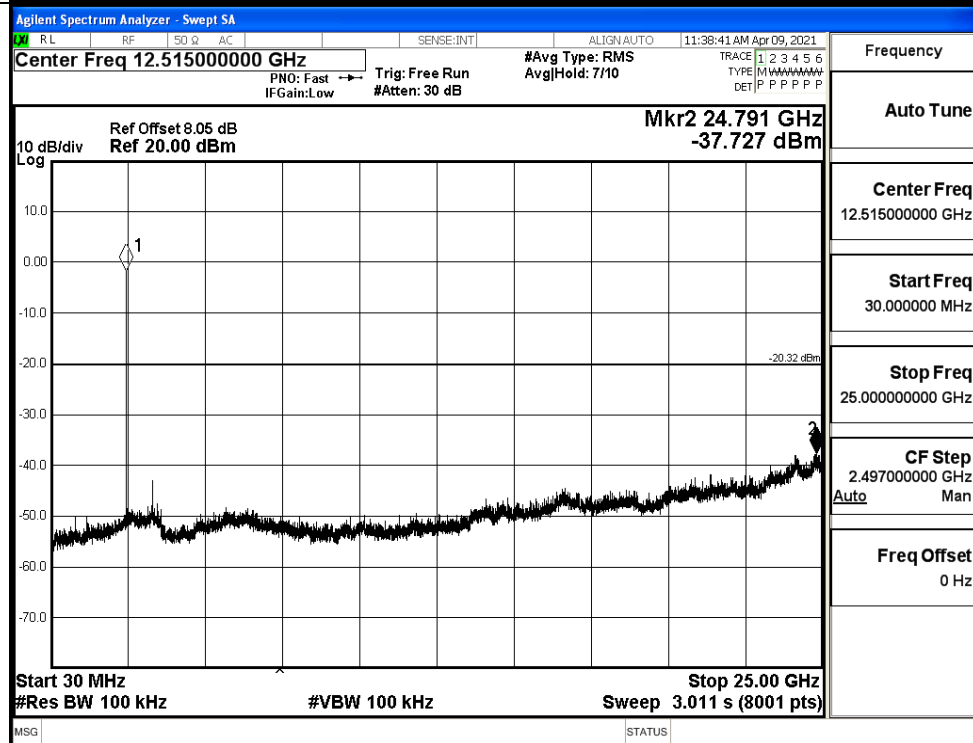


BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

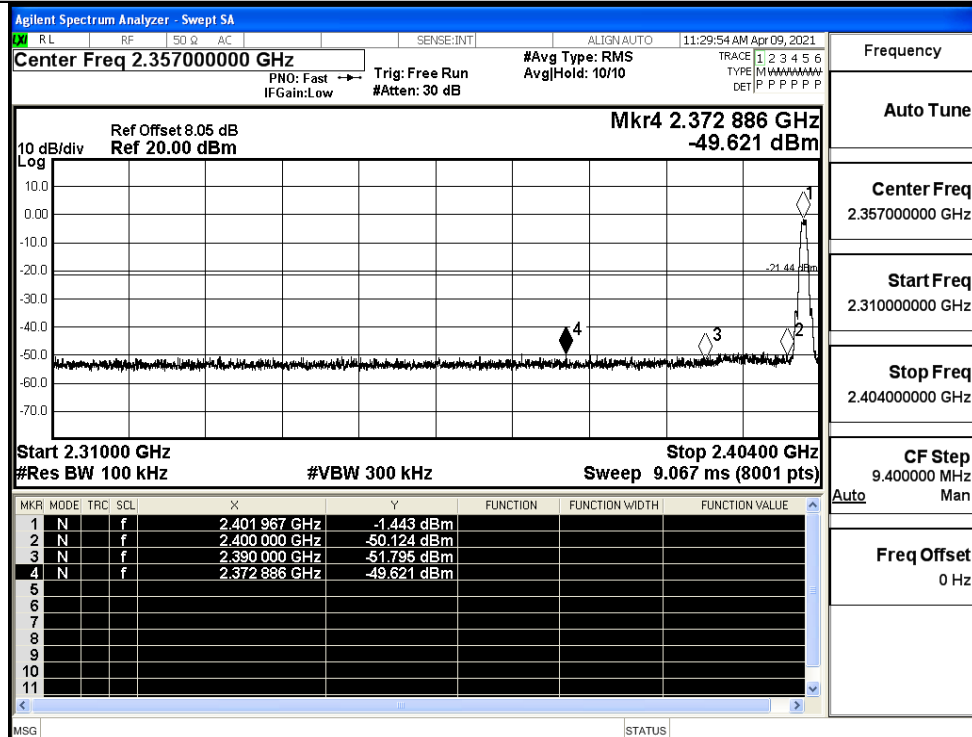


B.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.443	-49.621	-21.44	PASS
BT LE	HCH	-0.779	-46.902	-20.78	PASS

Test Graphs

LCH

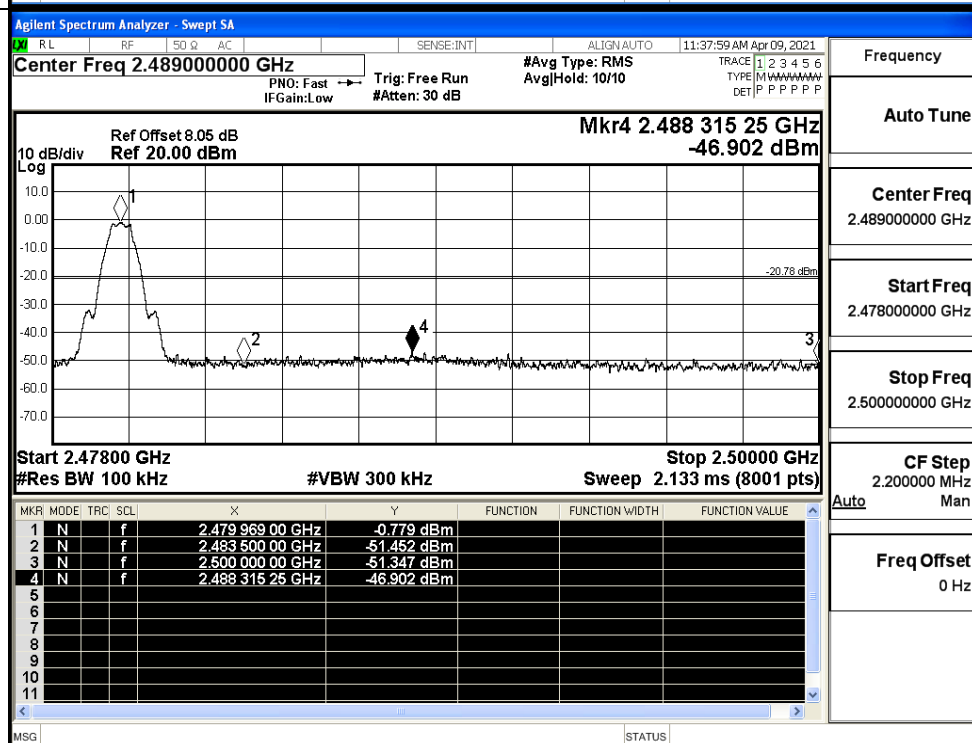


Frequency

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

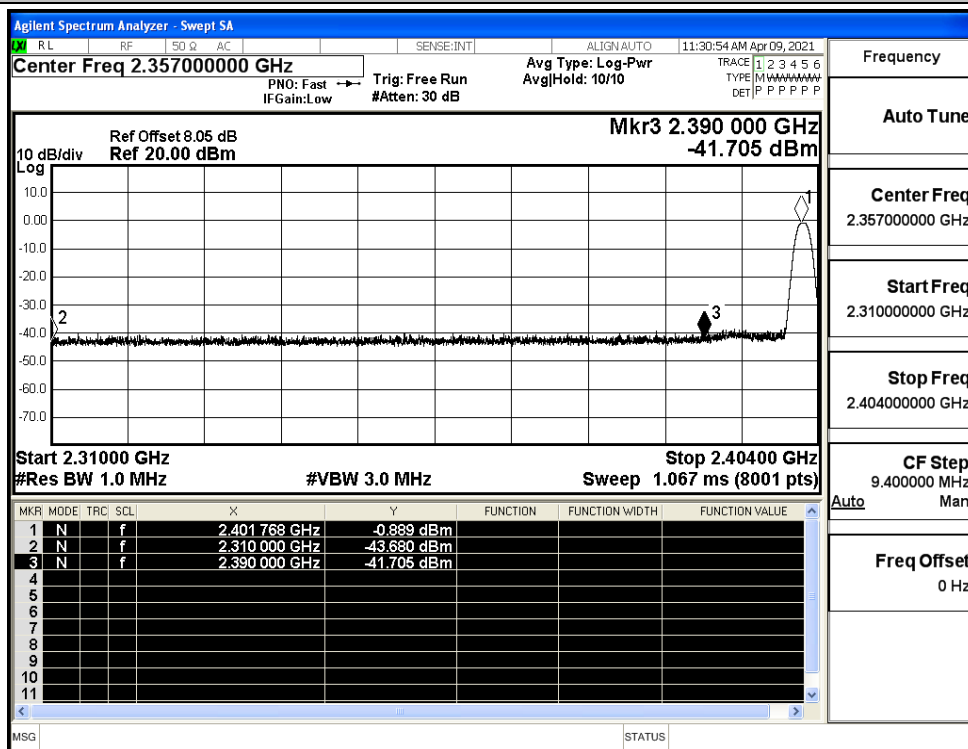
Auto Tune

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

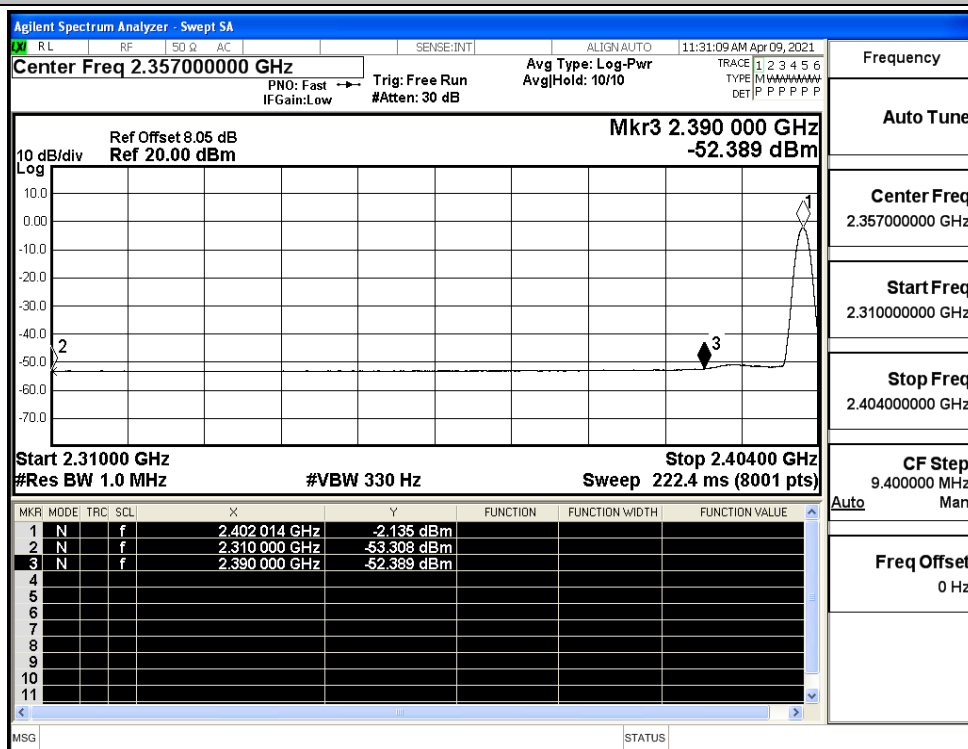
B.7 Restrict-band band-edge measurements

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	-43.68	2.0	0	53.55	PEAK	74	PASS
		Ant1	2310.0	-53.31	2.0	0	43.92	AV	54	PASS
		Ant1	2390.0	-41.71	2.0	0	55.52	PEAK	74	PASS
		Ant1	2390.0	-52.39	2.0	0	44.84	AV	54	PASS
	2480	Ant1	2483.5	-39.78	2.0	0	57.45	PEAK	74	PASS
		Ant1	2483.5	-50.96	2.0	0	46.27	AV	54	PASS
		Ant1	2500.0	-42.17	2.0	0	55.06	PEAK	74	PASS
		Ant1	2500.0	-52.12	2.0	0	45.11	AV	54	PASS

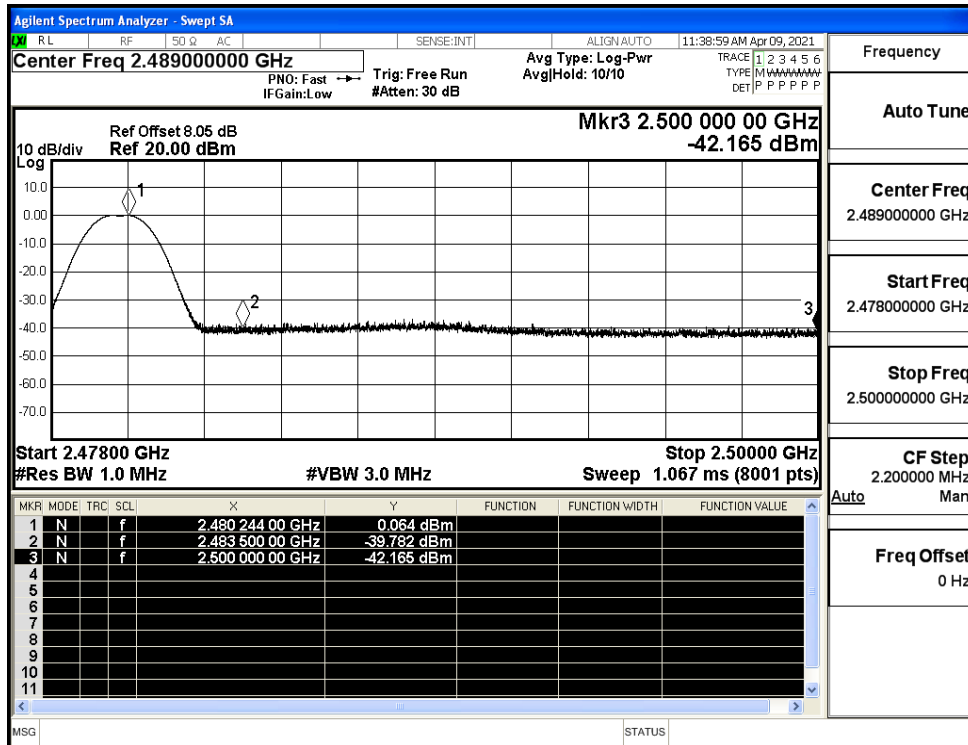
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

