

Appendix B

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

Product Name: Air purifier

Trade Mark: N/A

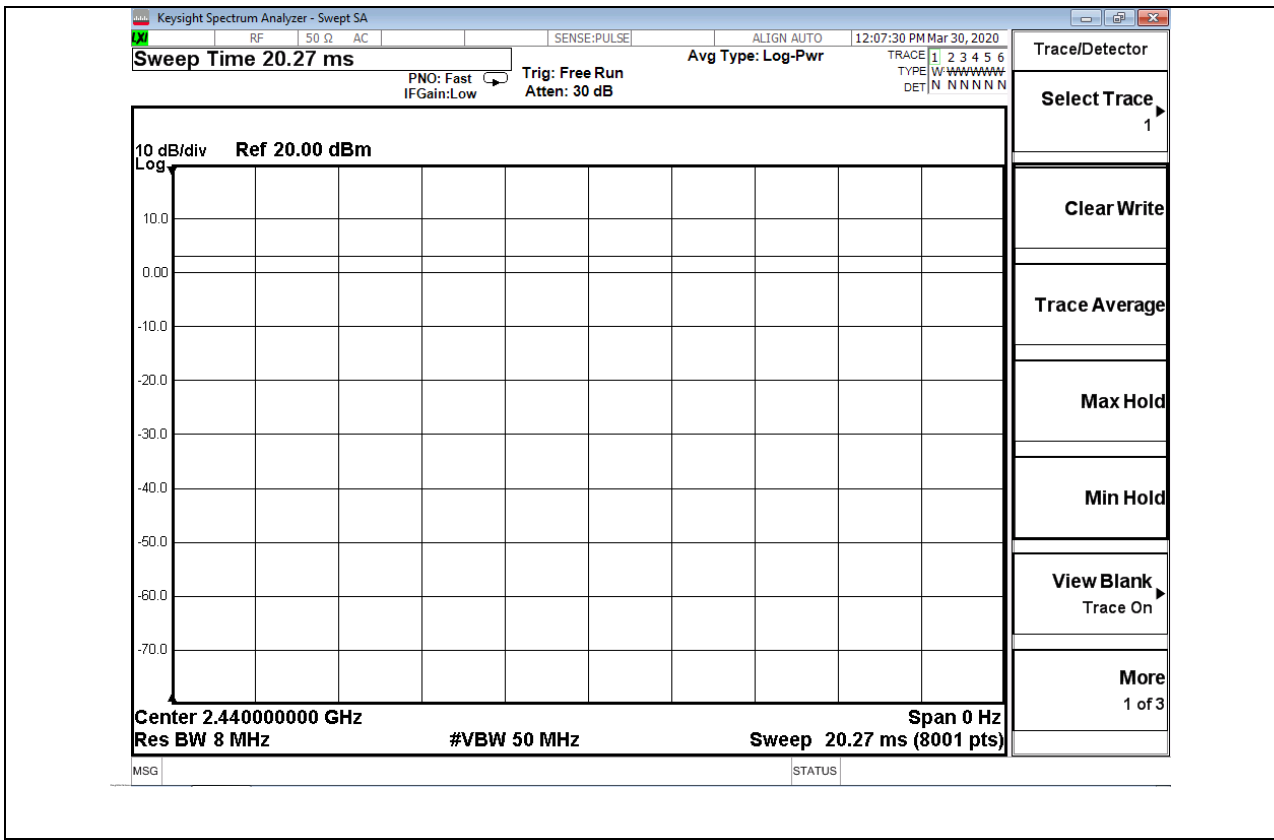
Test Model: LAF8013D

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	54%
ATM Pressure:	100.0 kPa
Test Engineer:	CHUANG WANG
Supervised by:	Jayden.Zhuo

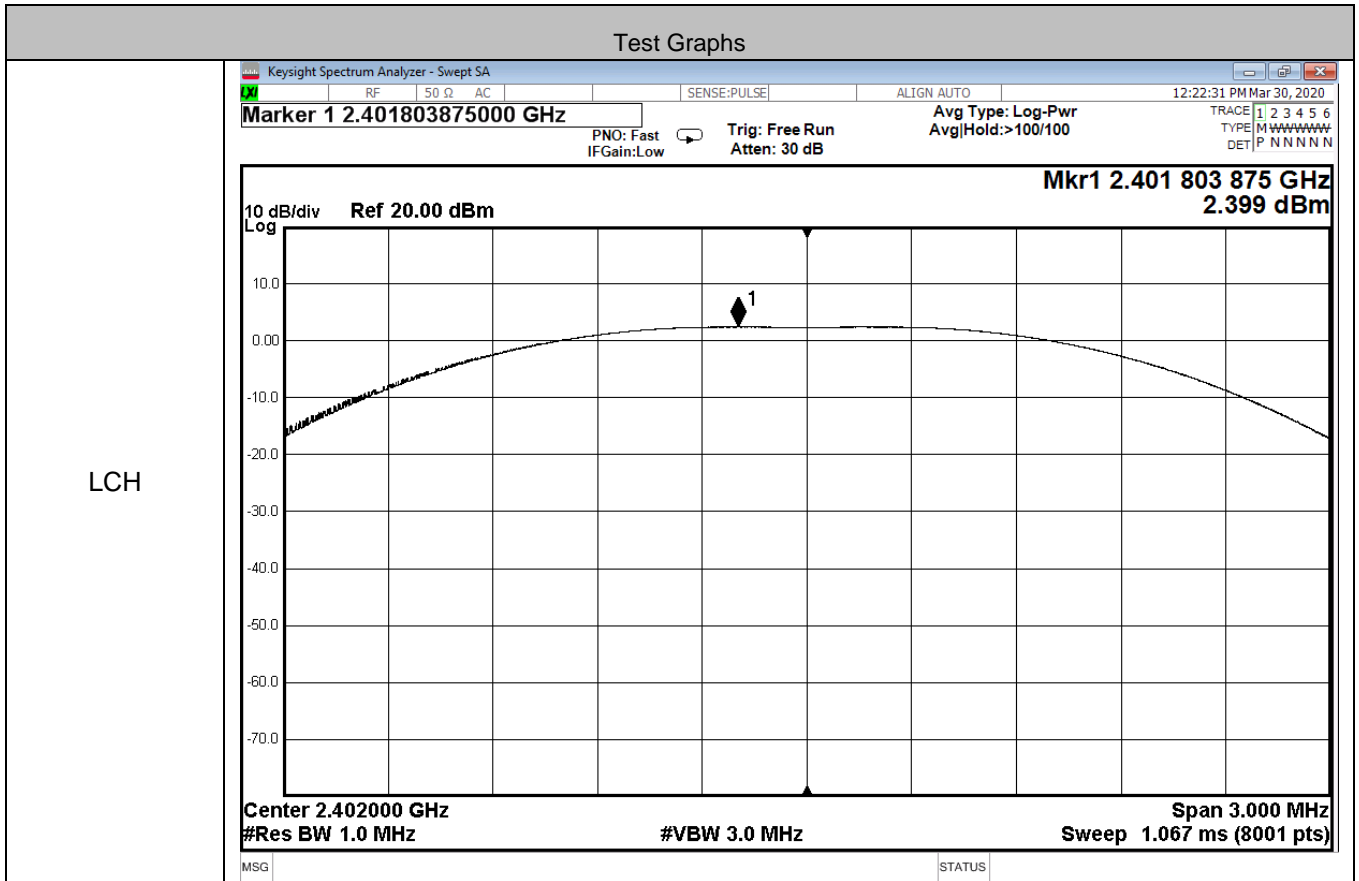
B.1 Duty Cycle

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

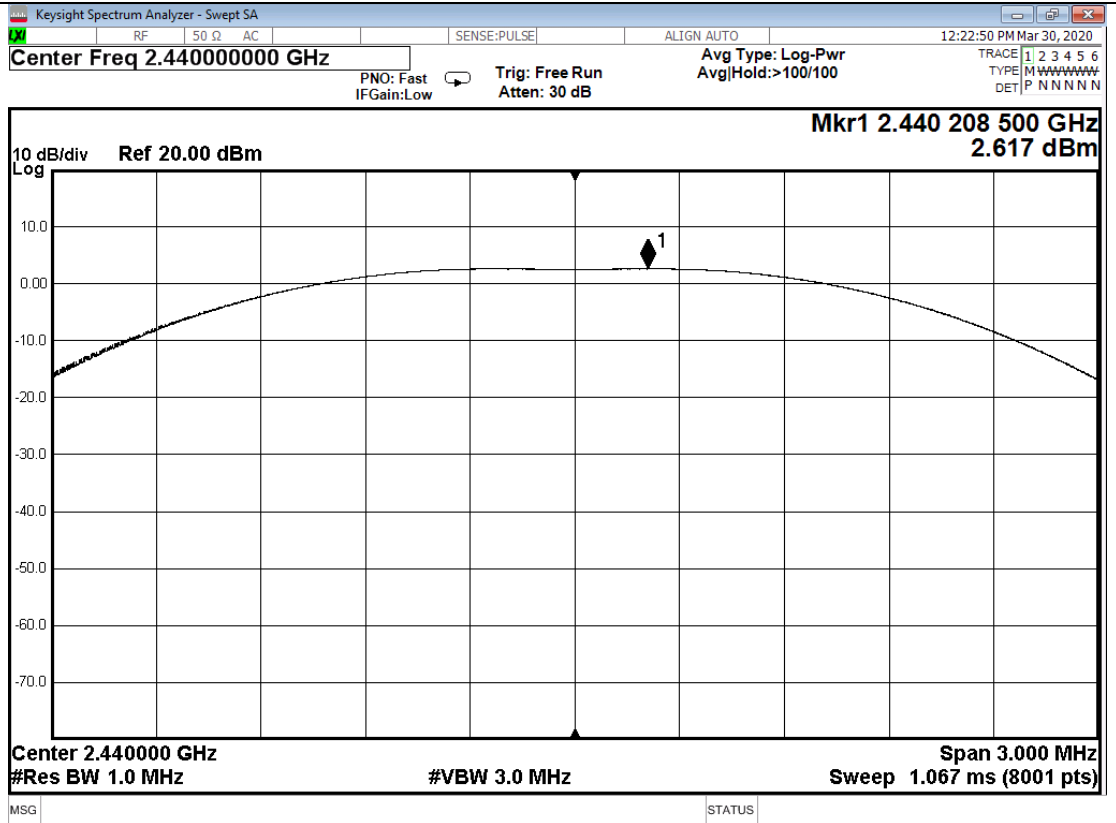


B.2 Maximum Conducted Peak Output Power

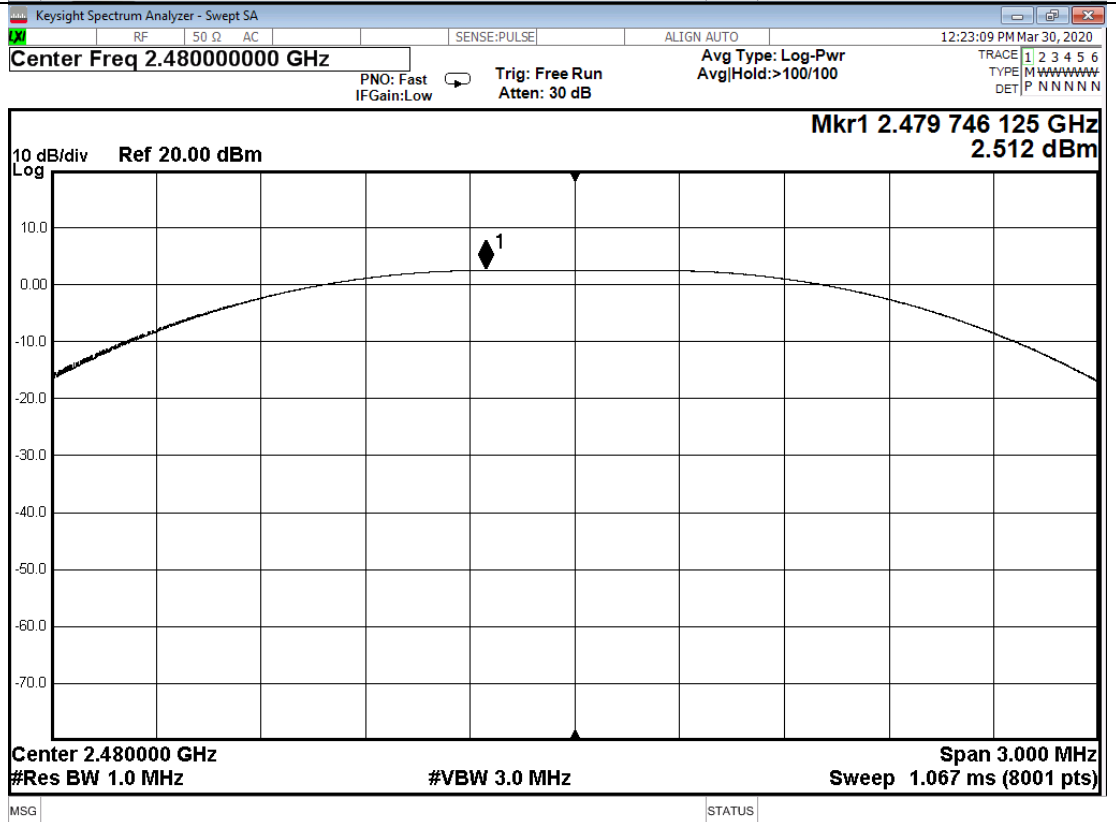
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.399	30	PASS
BT LE	MCH	2.617	30	PASS
BT LE	HCH	2.512	30	PASS



MCH

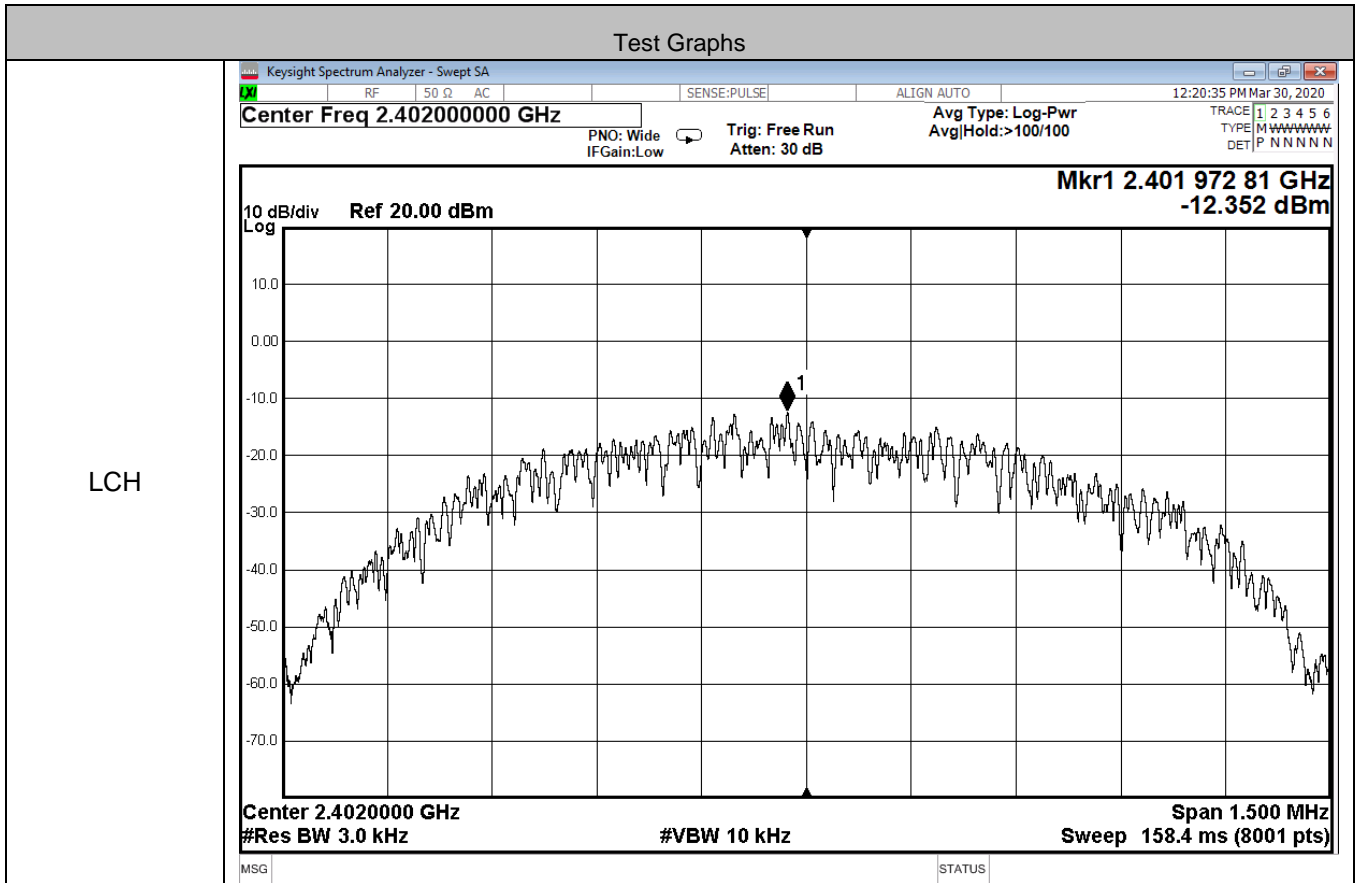


HCH

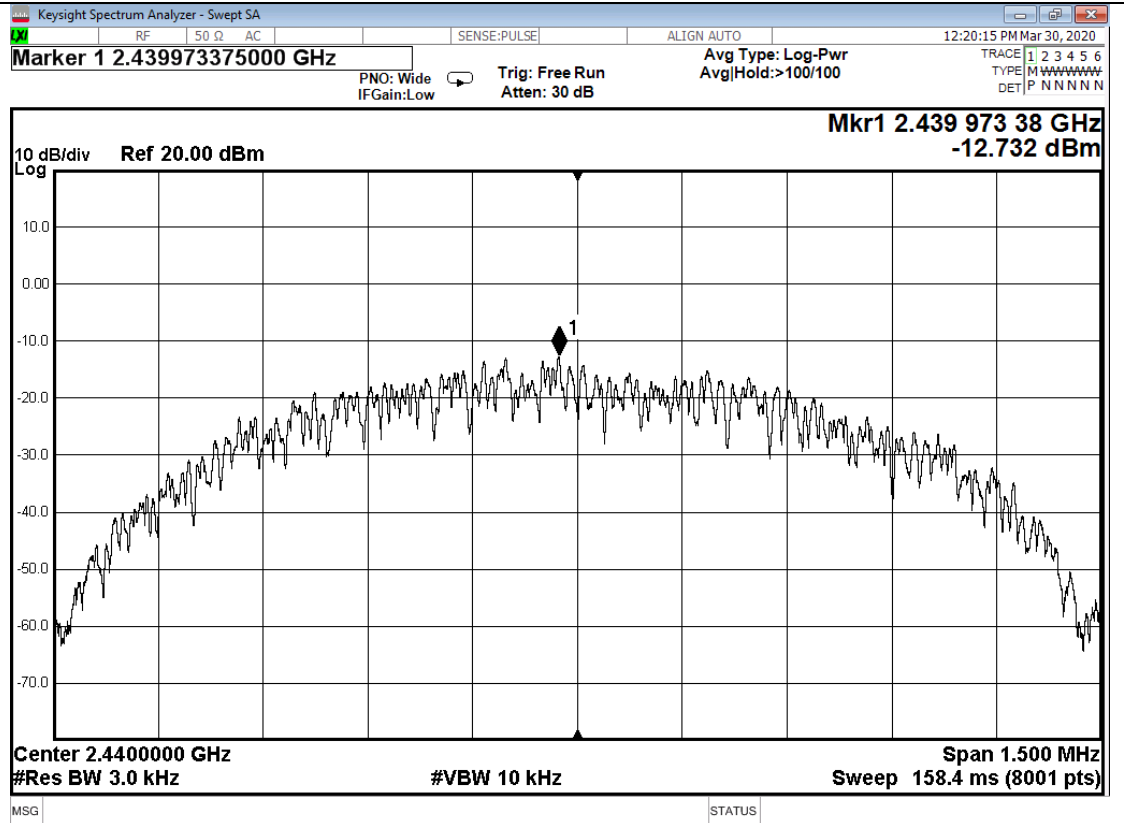


B.3 Maximum Power Spectral Density

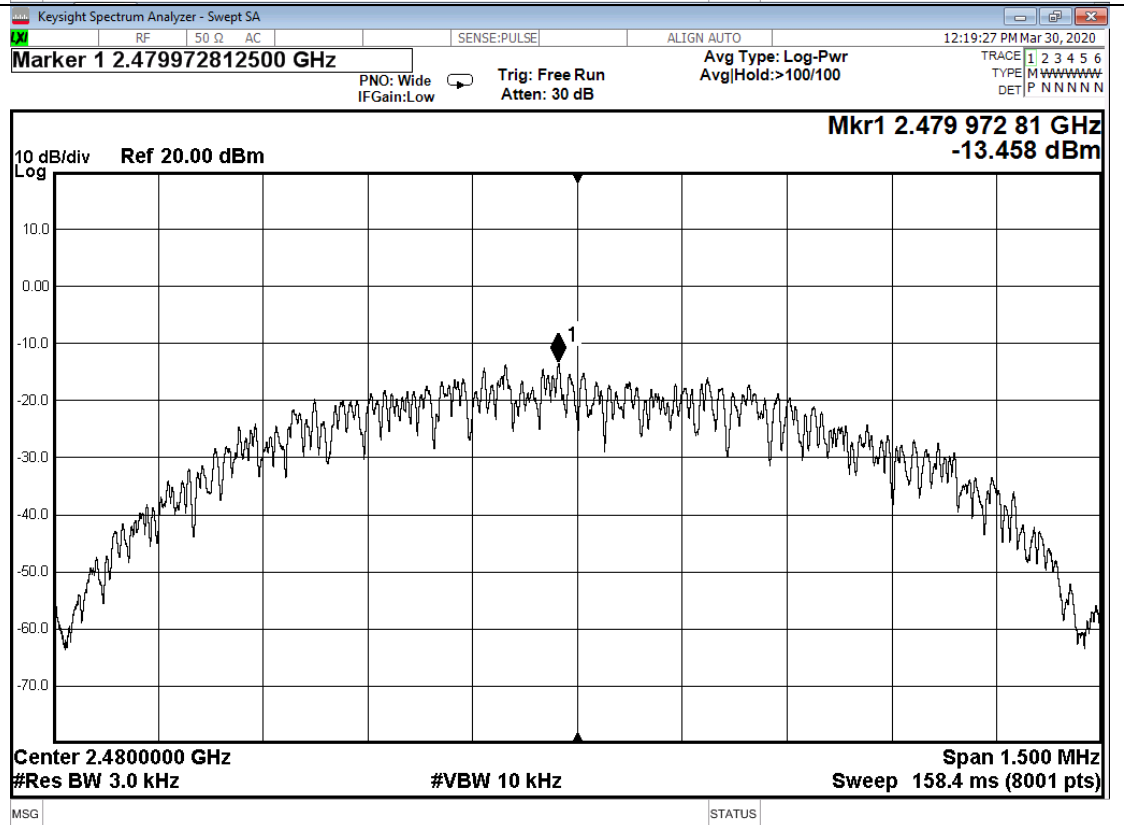
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-12.352	8	PASS
BT LE	MCH	-12.732	8	PASS
BT LE	HCH	-13.458	8	PASS



MCH

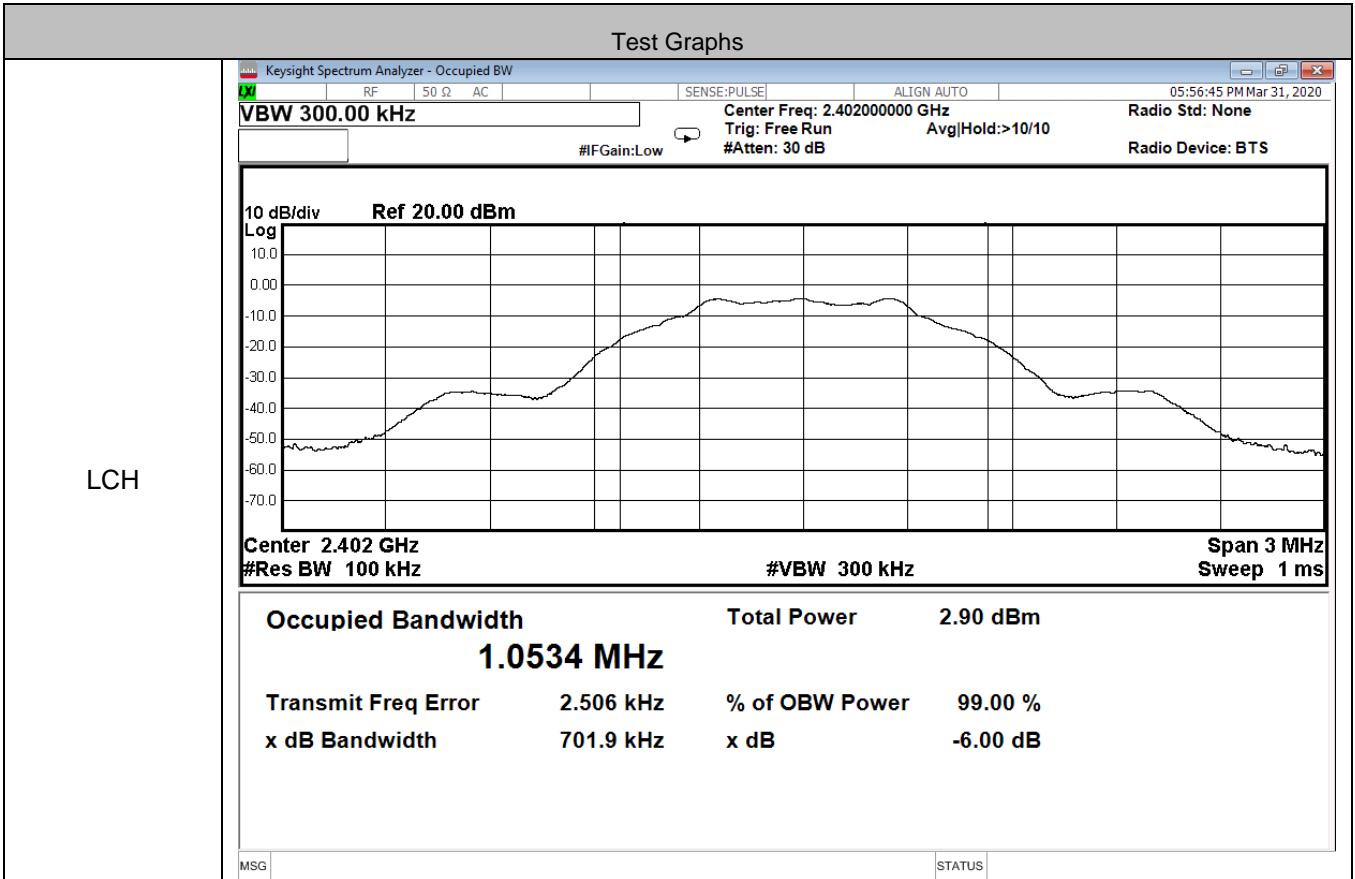


HCH

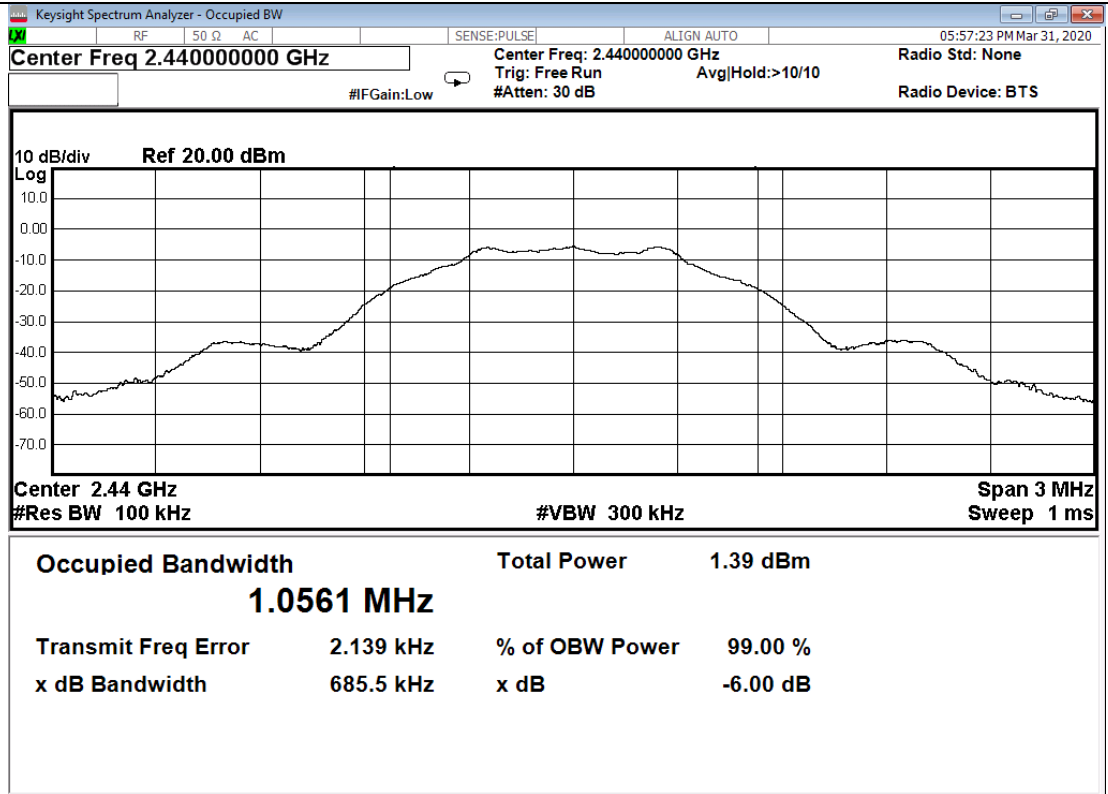


B.4 6dB Bandwidth

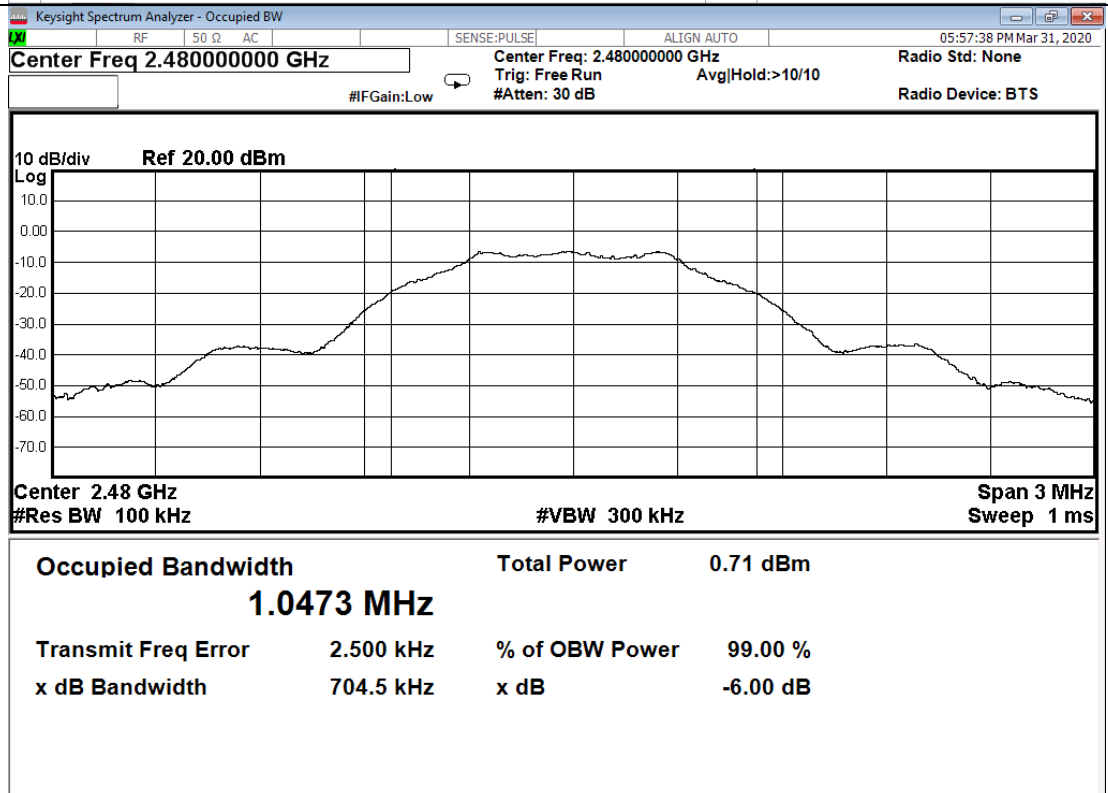
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.7019	≥0.5	PASS
BT LE	MCH	0.6855	≥0.5	PASS
BT LE	HCH	0.7045	≥0.5	PASS



MCH



HCH

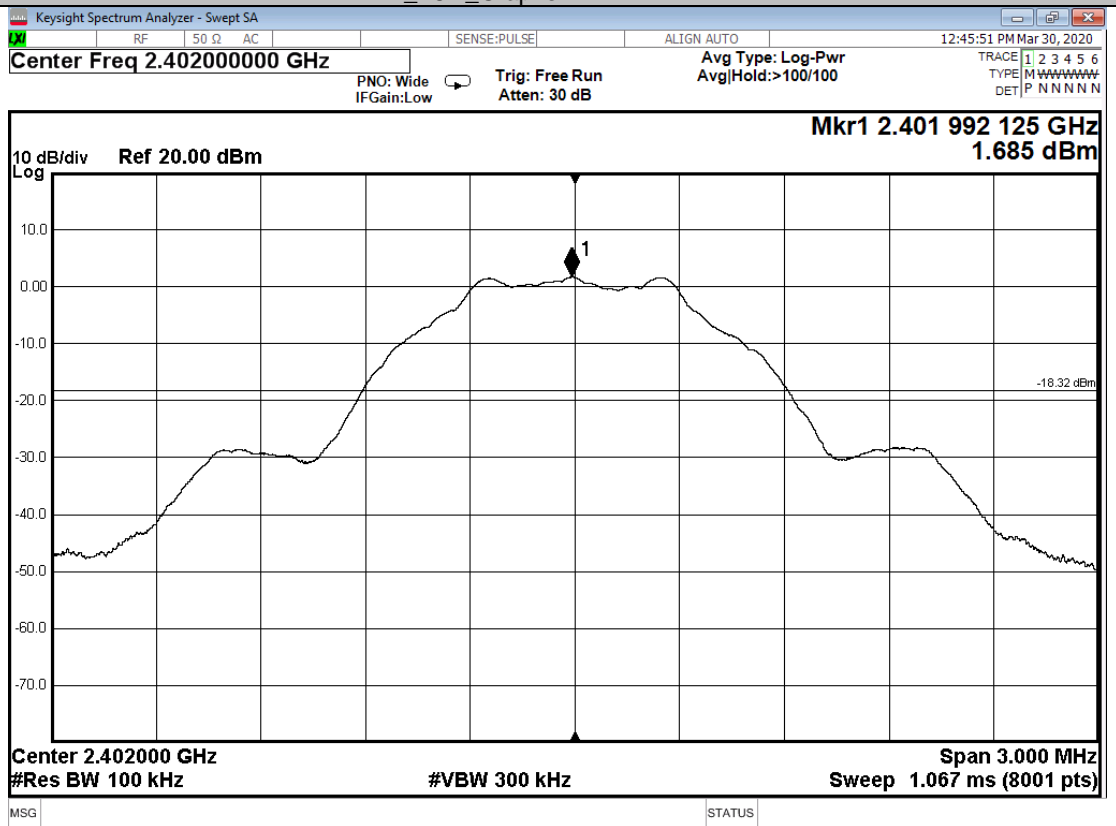


B.5 RF Conducted Spurious Emissions

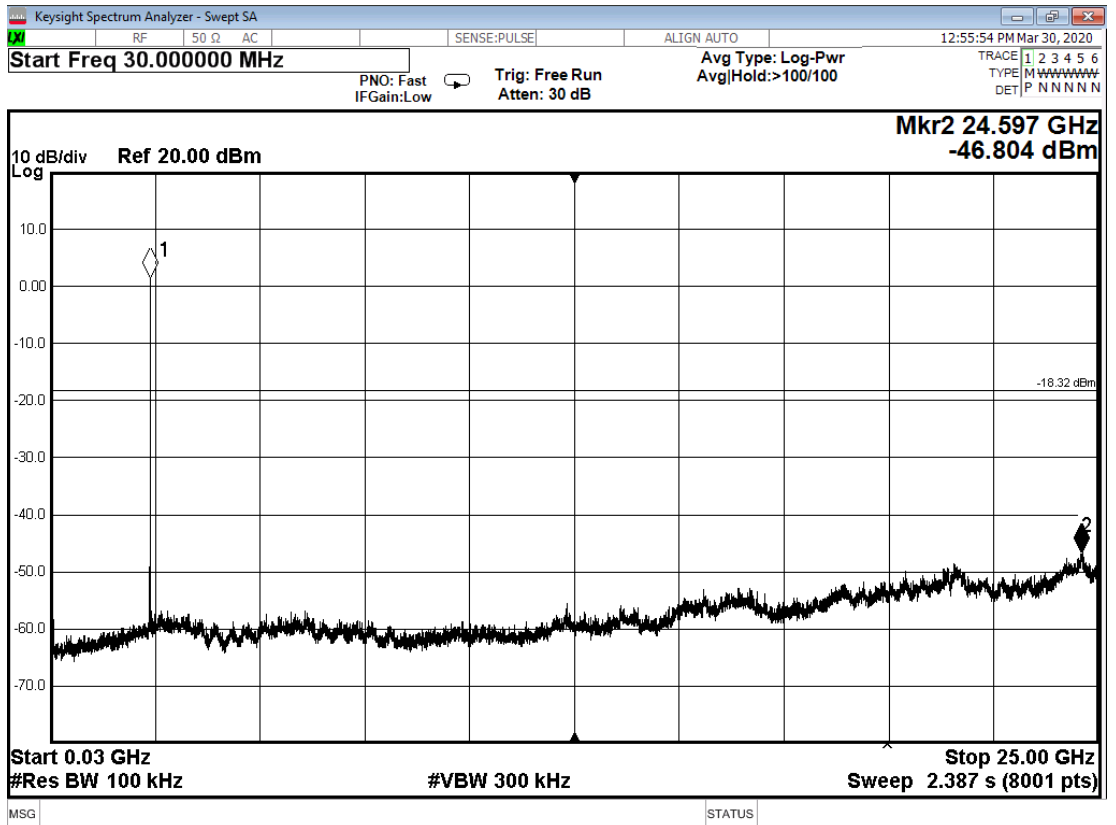
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.658	-46.804	-18.34	PASS
BT LE	MCH	1.487	-48.285	-18.51	PASS
BT LE	HCH	1.449	-48.971	-18.55	PASS

BT LE_LCH_Graphs

Pref/BT LE/LCH

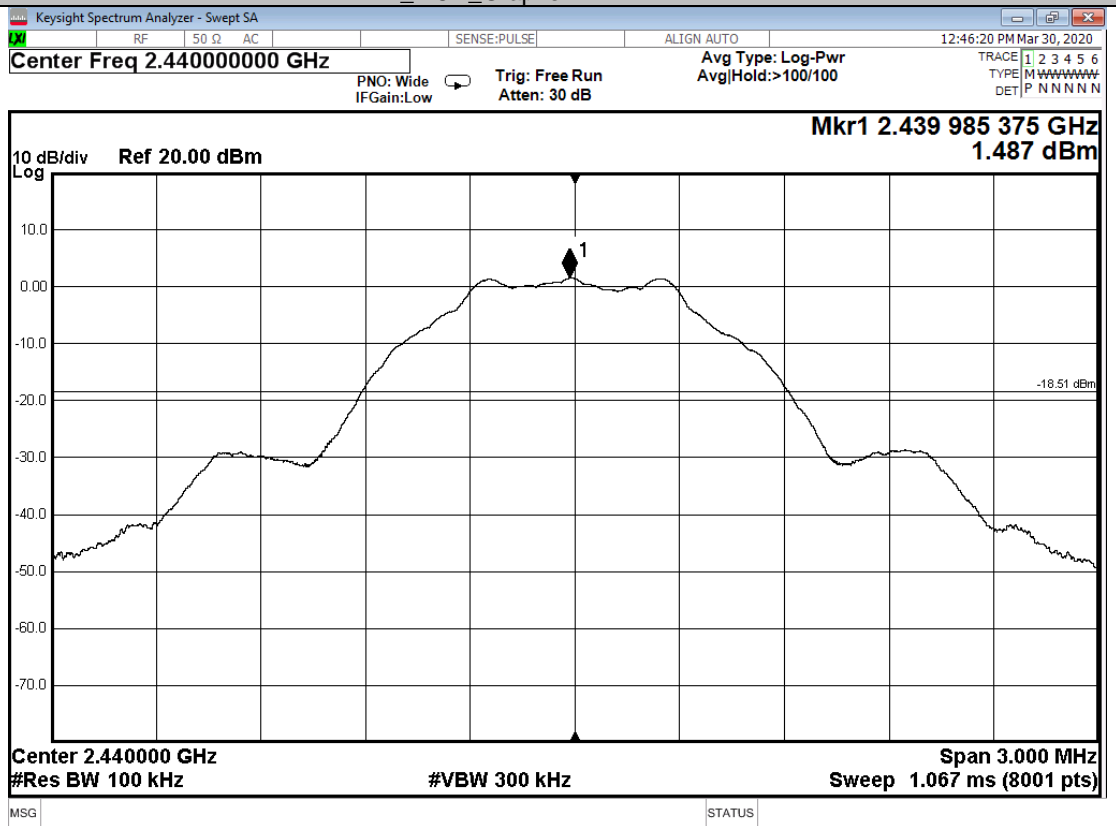


Puw/BT LE/LCH

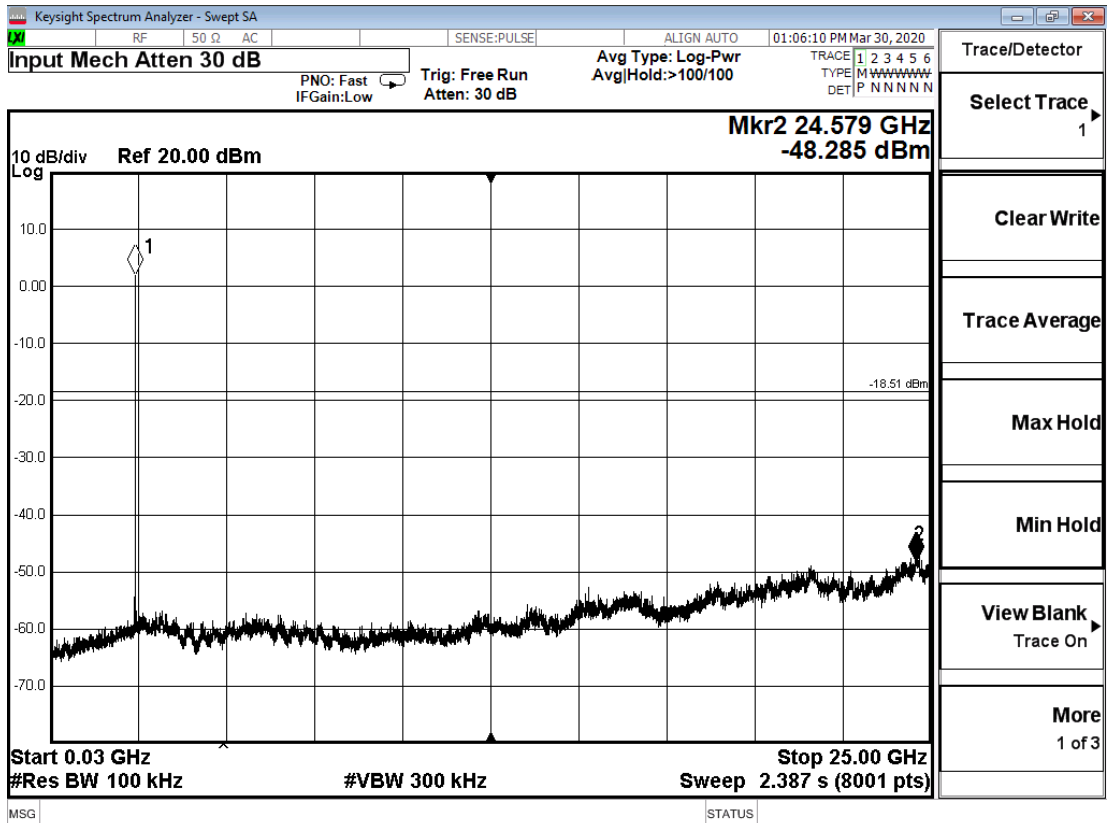


BT LE_MCH_Graphs

Pref/BT LE/MCH

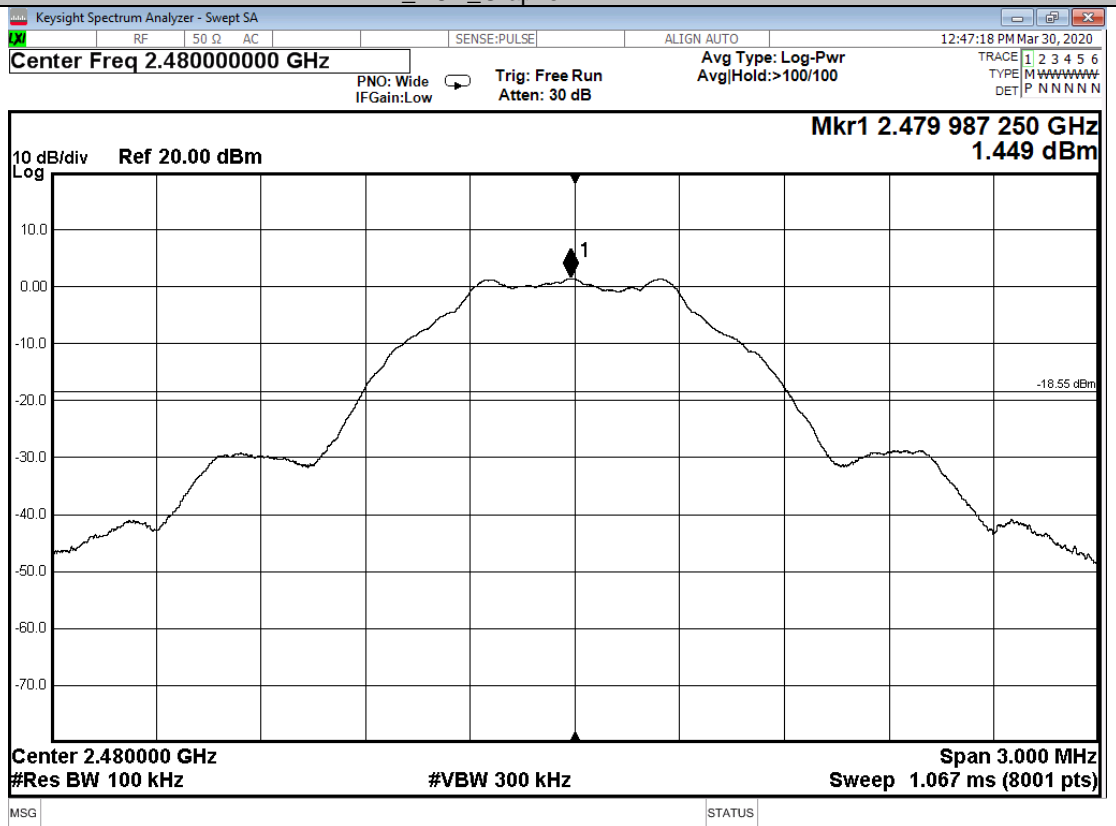


Puw/BT LE/MCH

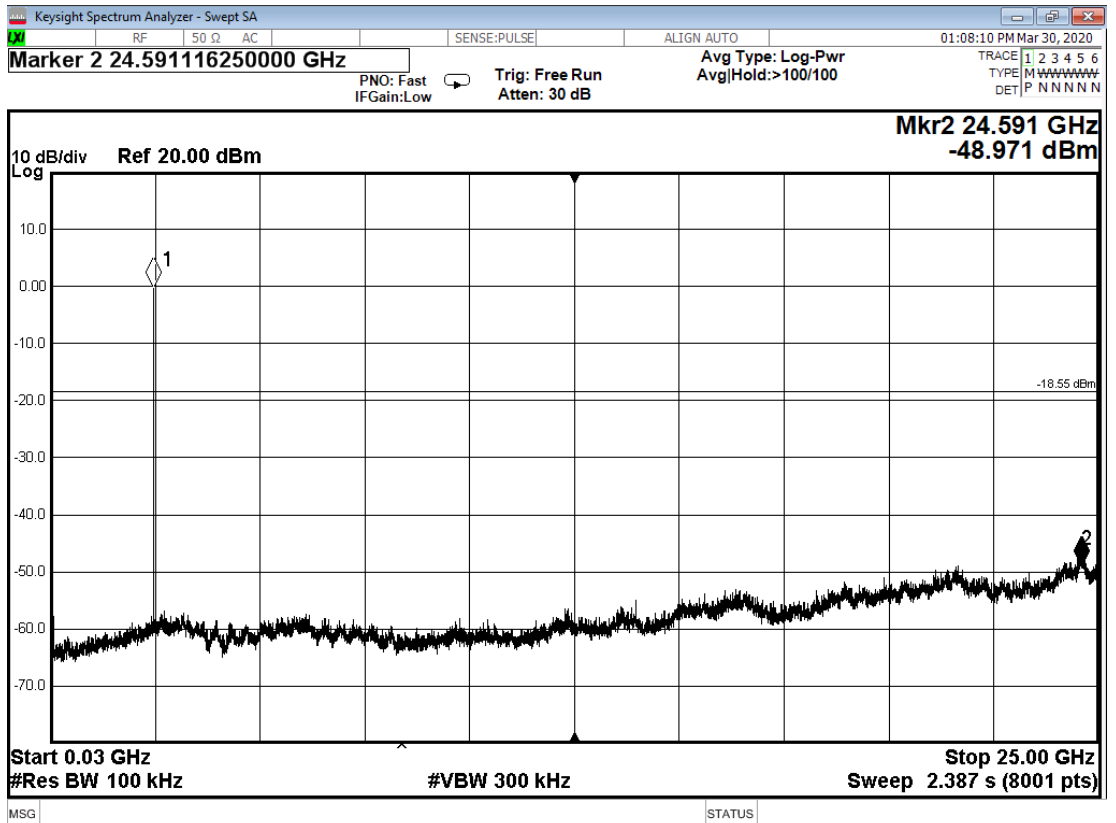


BT LE_HCH_Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

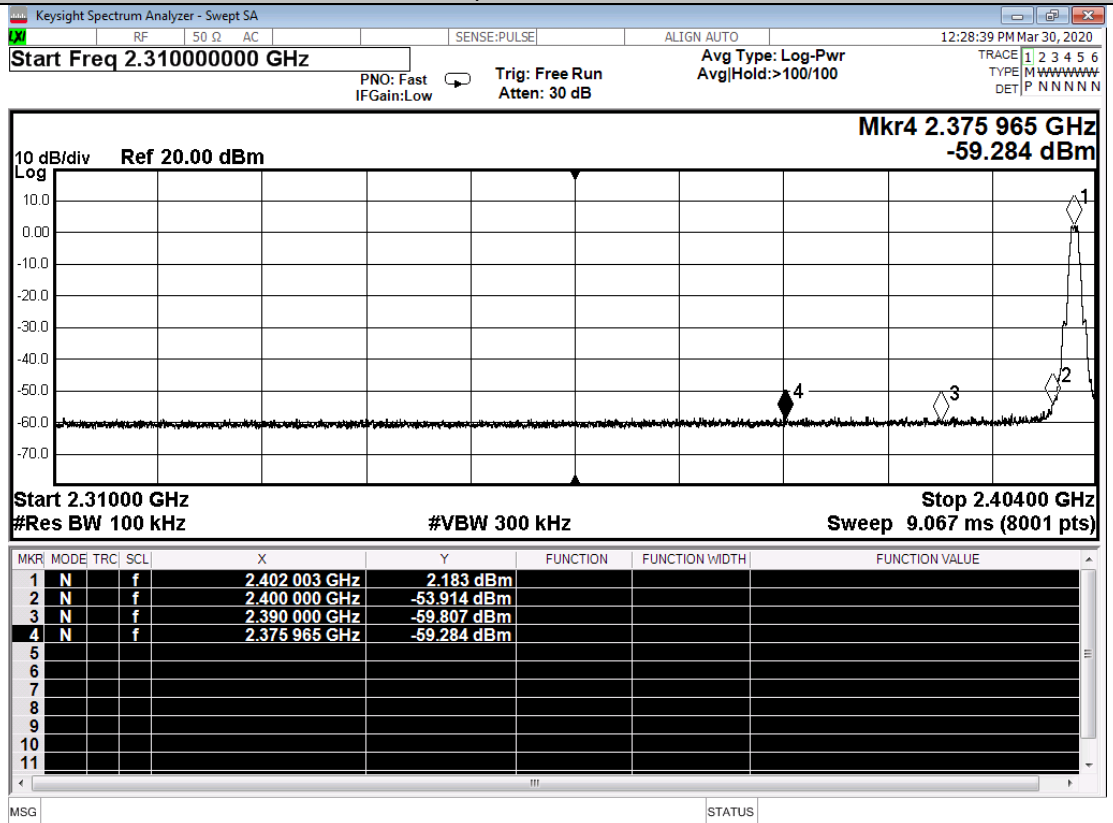


B.6 Band-edge for RF Conducted Emissions

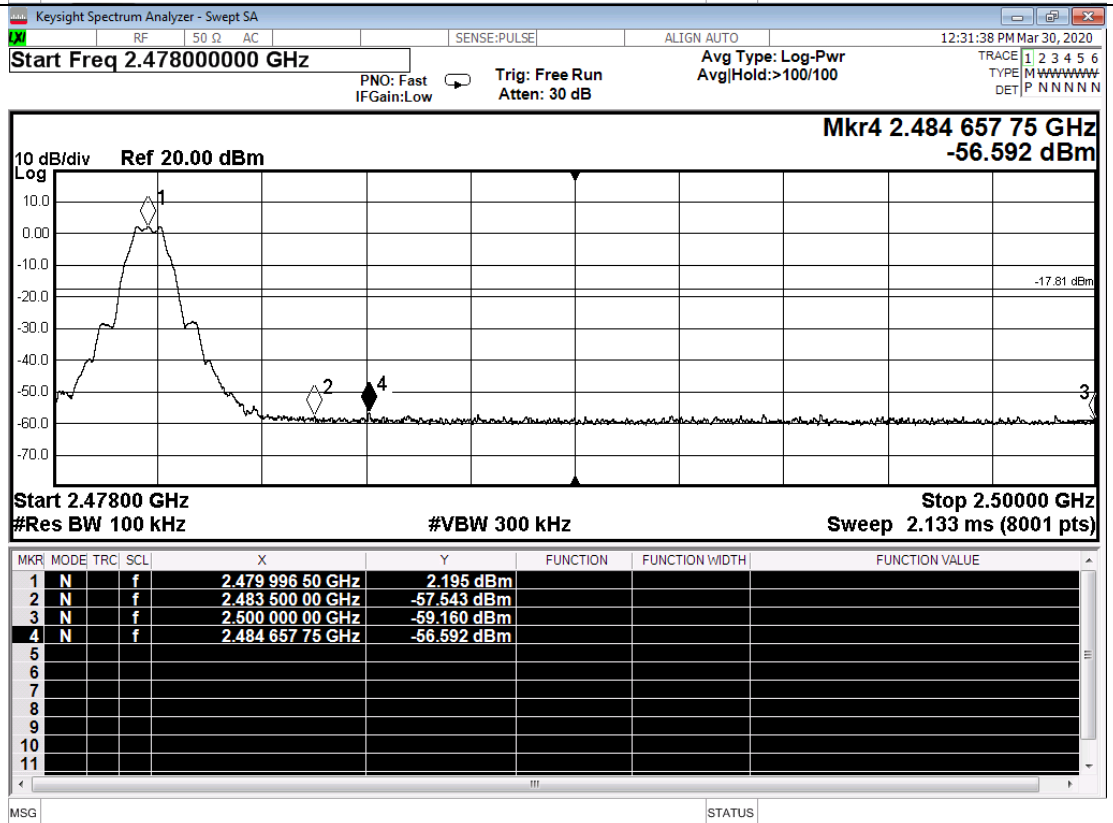
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	2.183	-53.914	-17.82	PASS
BT LE	HCH	2.195	-56.592	-17.81	PASS

Test Graphs

LCH



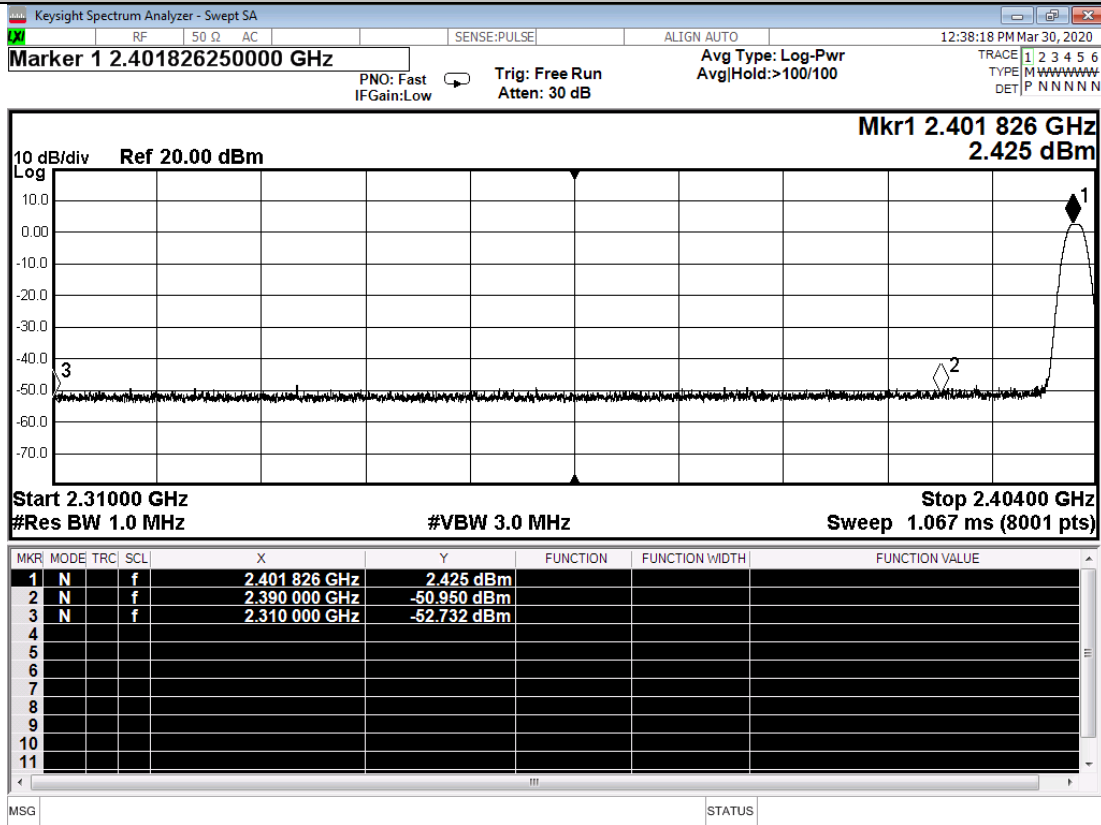
HCH



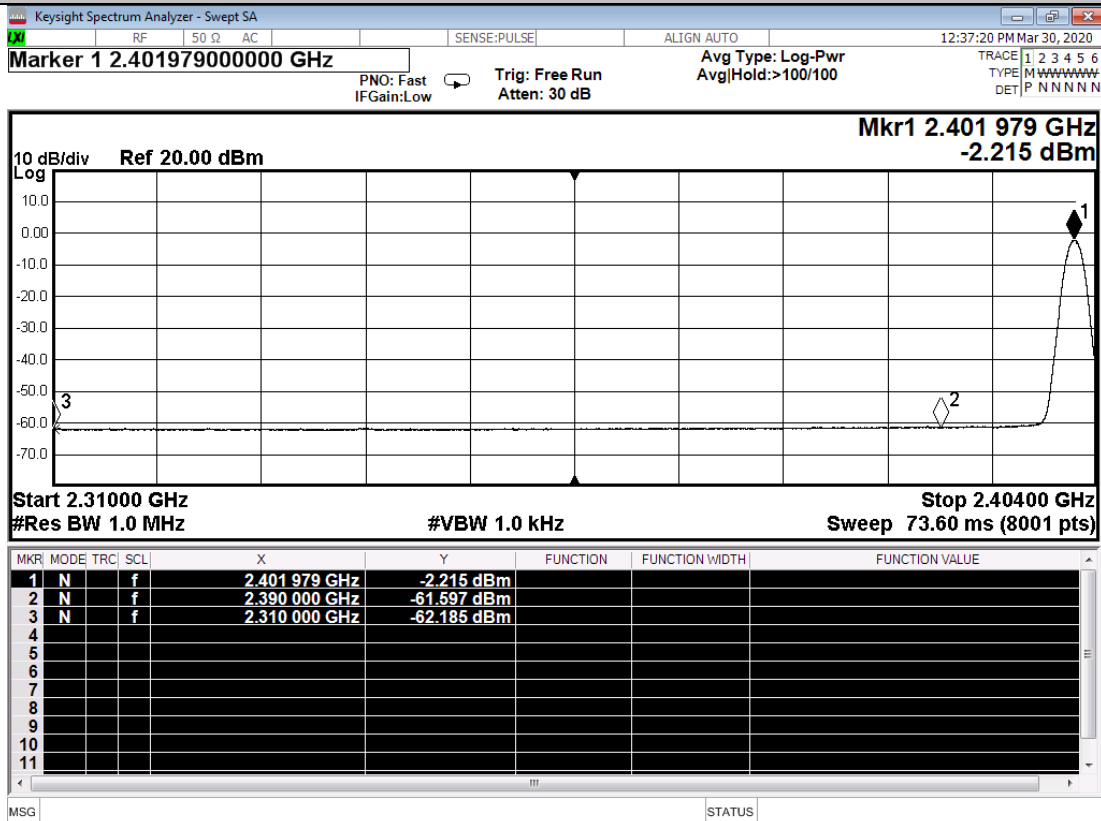
B.7 Restrict-band band-edge measurements

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	-52.732	2.00	0	44.50	PEAK	74	PASS
		Ant1	2310.0	-62.185	2.00	0	35.05	AV	54	PASS
		Ant1	2390.0	-50.950	2.00	0	46.28	PEAK	74	PASS
		Ant1	2390.0	-61.597	2.00	0	35.63	AV	54	PASS
	2480	Ant1	2483.5	-50.591	2.00	0	46.64	PEAK	74	PASS
		Ant1	2483.5	-60.428	2.00	0	36.80	AV	54	PASS
		Ant1	2500.0	-50.171	2.00	0	47.06	PEAK	74	PASS
		Ant1	2500.0	-61.105	2.00	0	36.13	AV	54	PASS

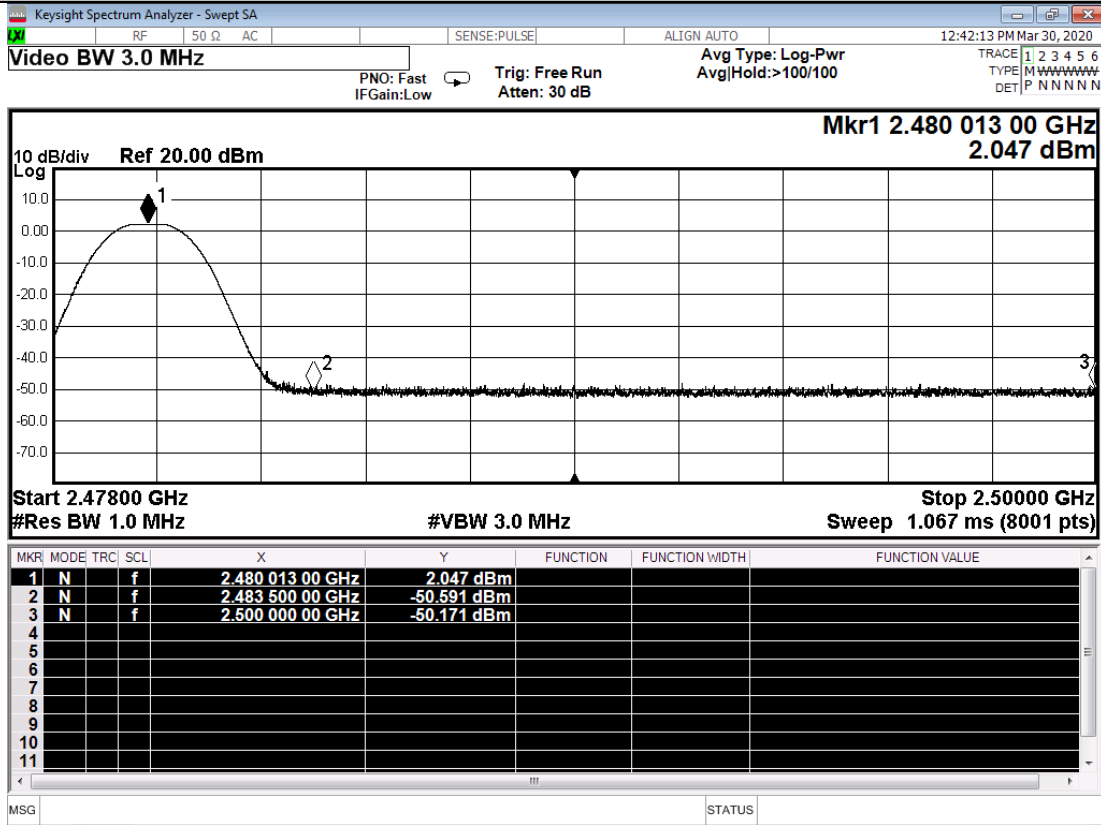
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

