

Appendix A

RF Test Data for BT V5.0(BLE) (Conducted Measurement)

Product Name: Mibro Color

Trade Mark: mibro

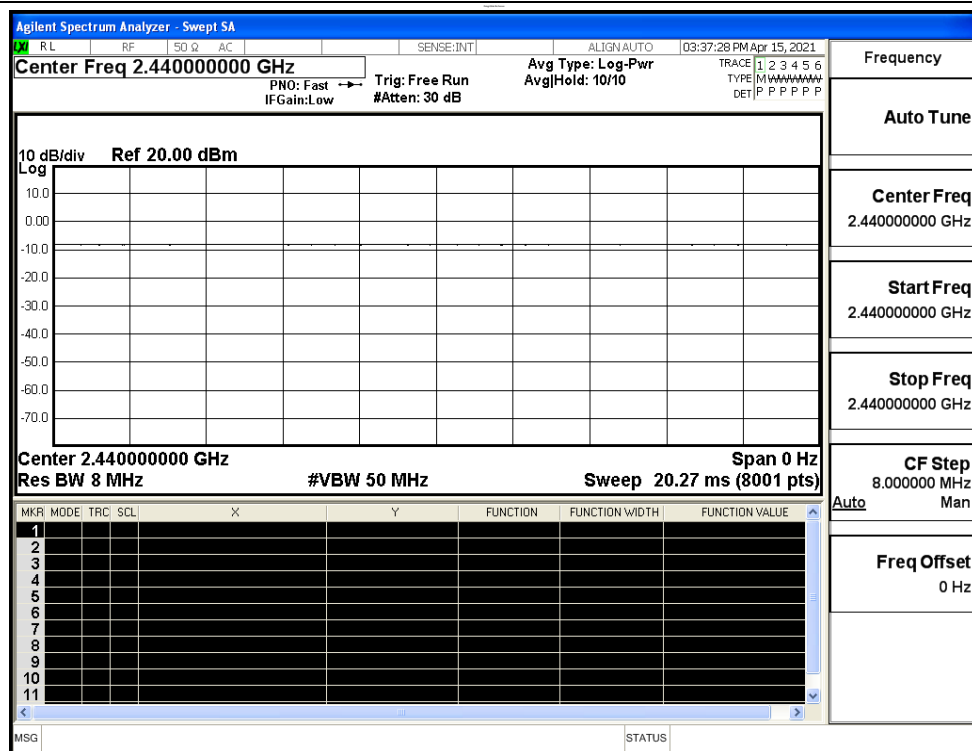
Test Model: XPAW002

Environmental Conditions

Temperature:	24.2 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

A.1 Duty Cycle

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

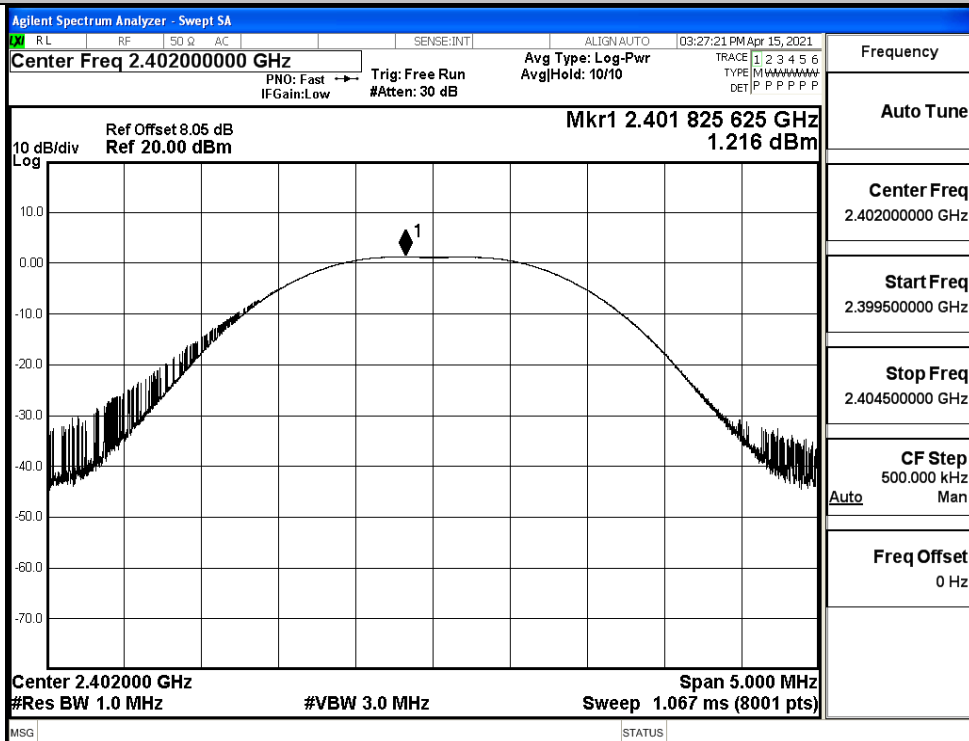


A.2 Maximum Conducted Peak Output Power

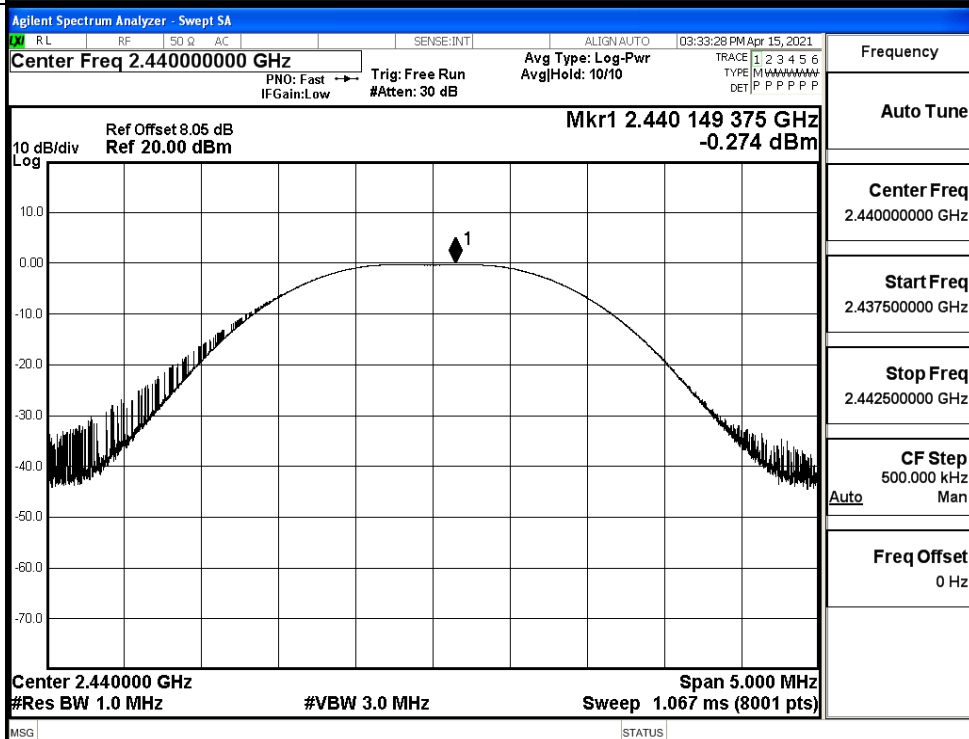
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.216	30	PASS
BT LE	MCH	-0.274	30	PASS
BT LE	HCH	-2.257	30	PASS

Test Graphs

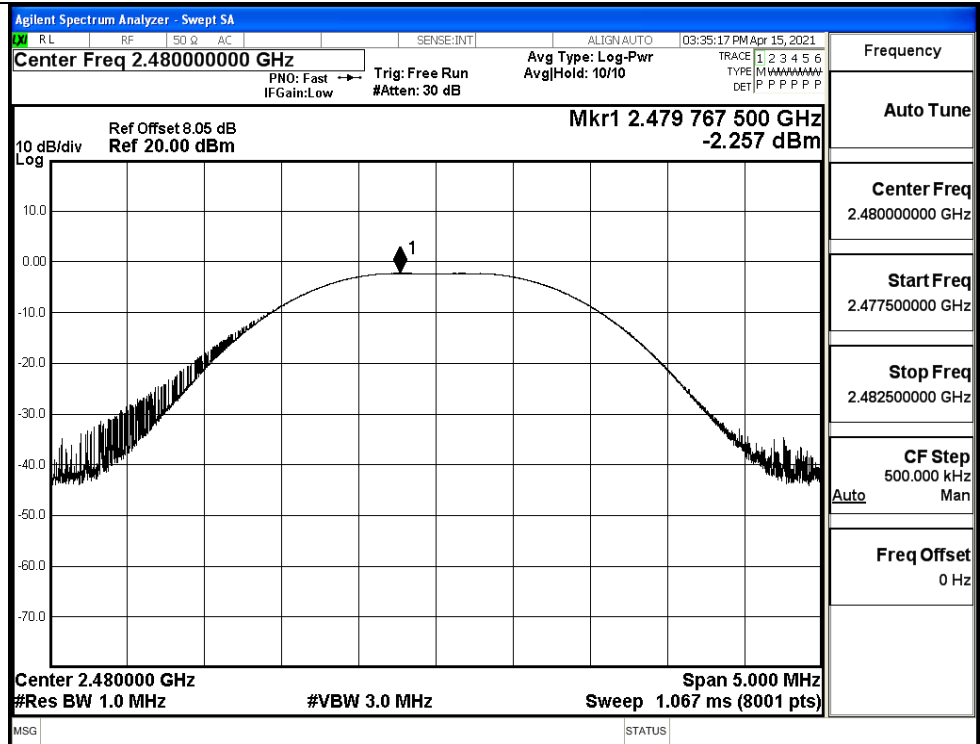
LCH



MCH



HCH

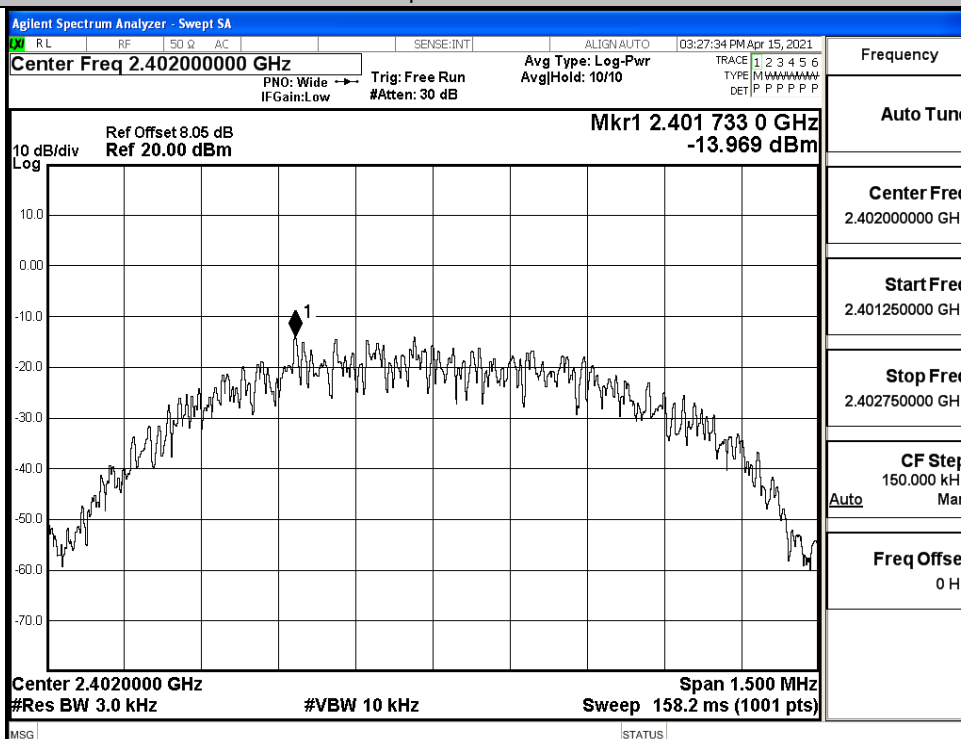


A.3 Maximum Power Spectral Density

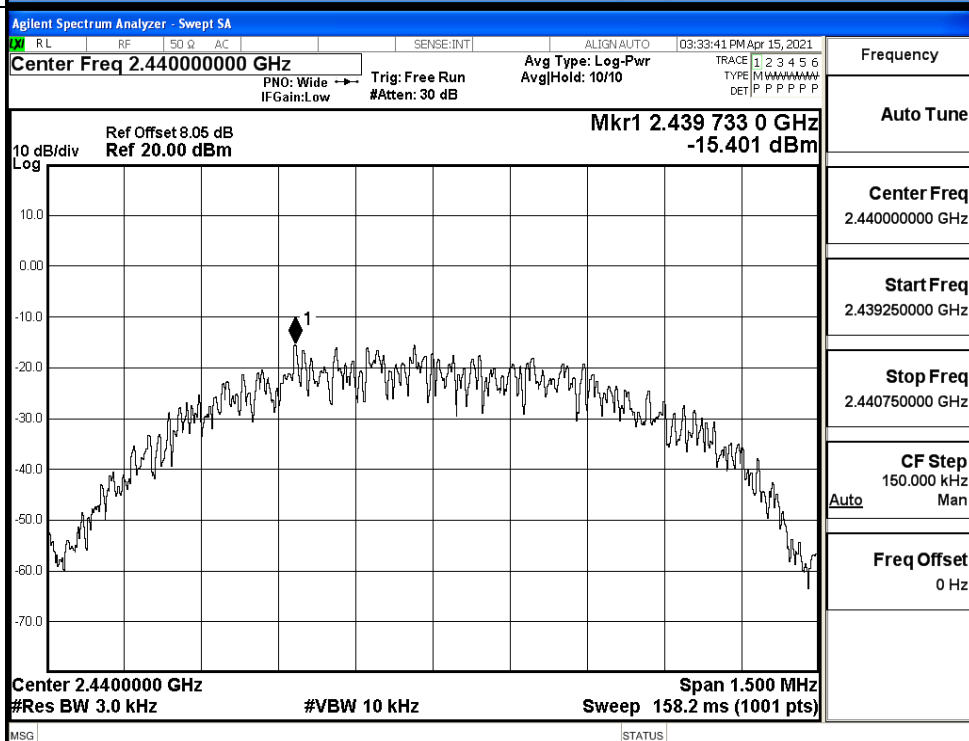
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-13.969	8	PASS
BT LE	MCH	-15.401	8	PASS
BT LE	HCH	-17.314	8	PASS

Test Graphs

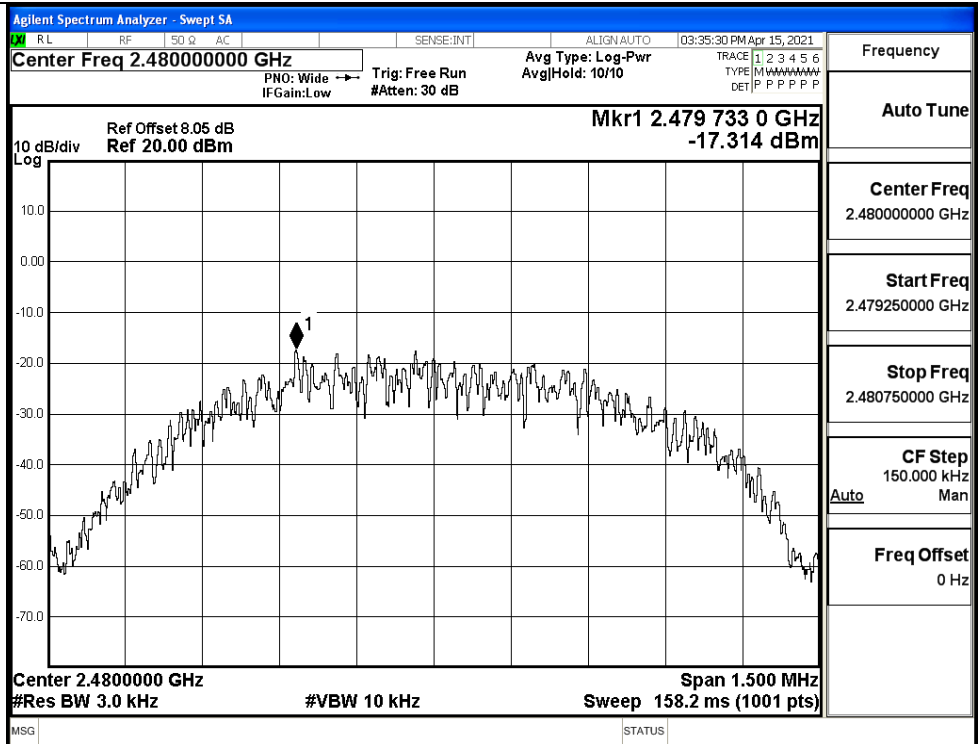
LCH



MCH



HCH

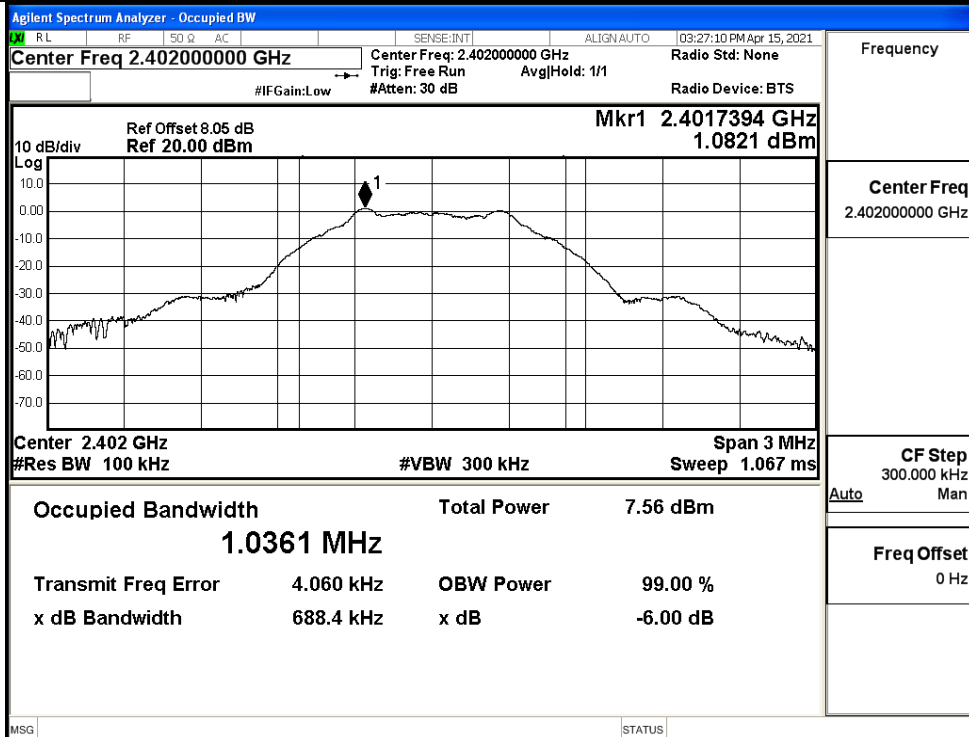


A.4 6dB Bandwidth

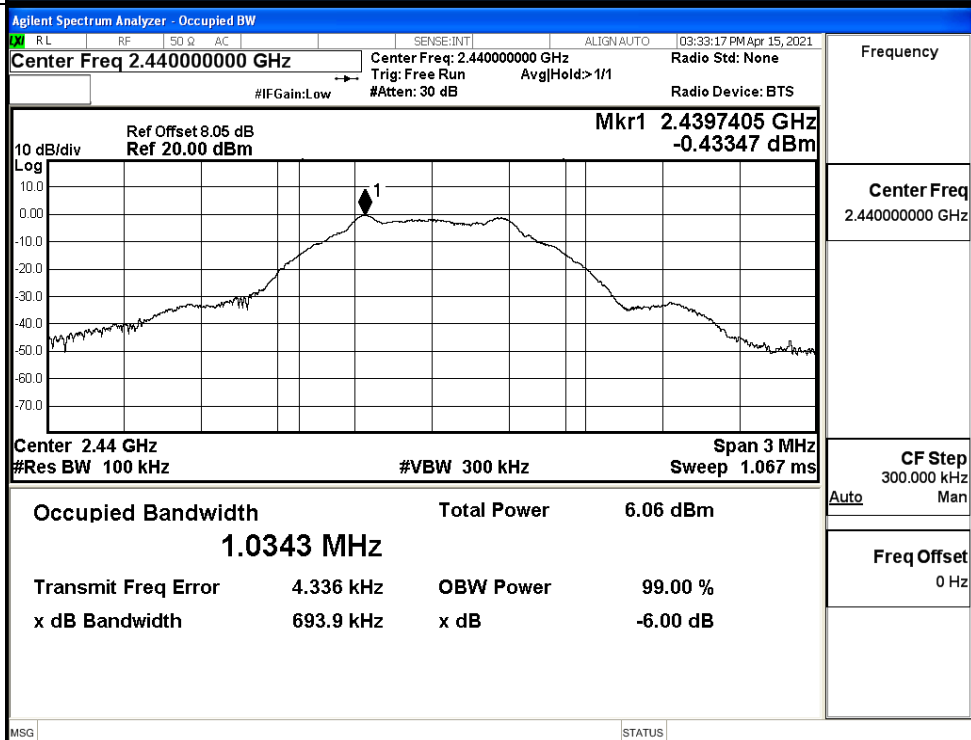
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.6884	≥ 0.5	PASS
BT LE	MCH	0.6939	≥ 0.5	PASS
BT LE	HCH	0.6929	≥ 0.5	PASS

Test Graphs

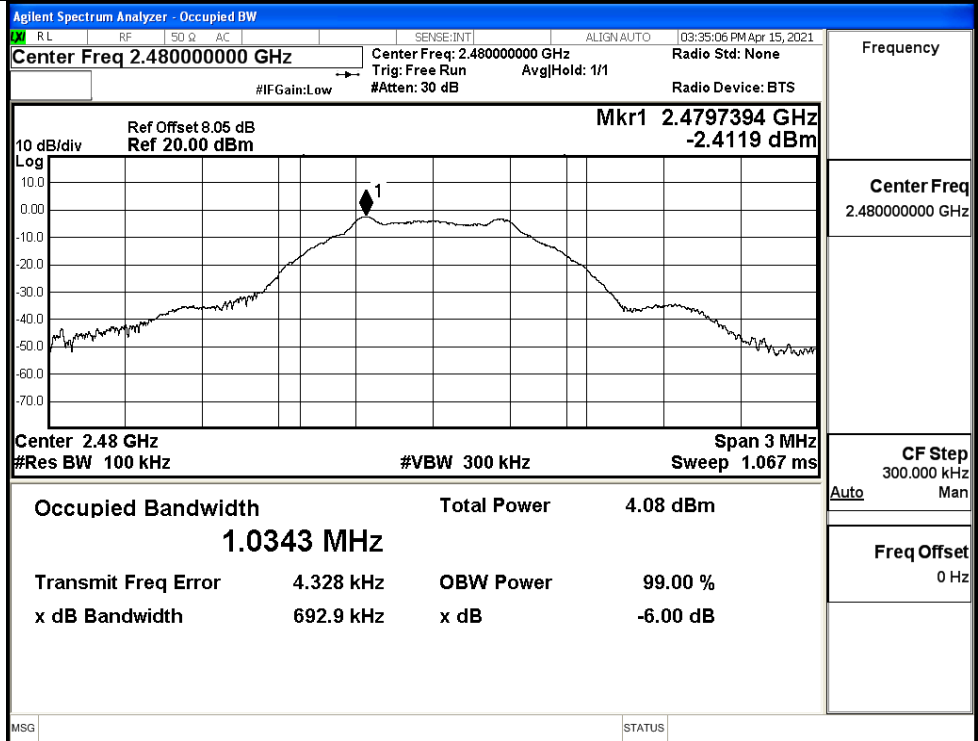
LCH



MCH



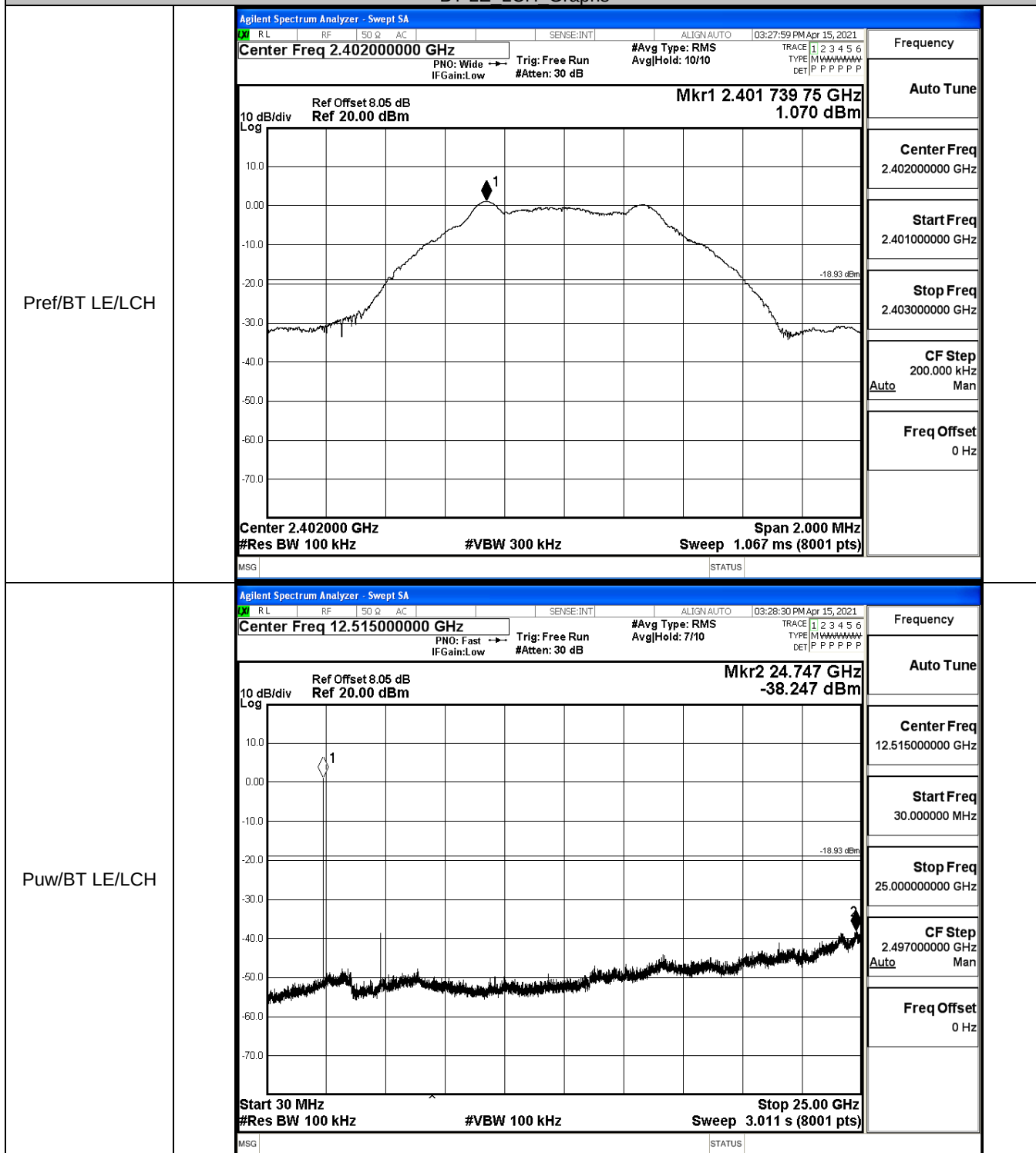
HCH



A.6 RF Conducted Spurious Emissions

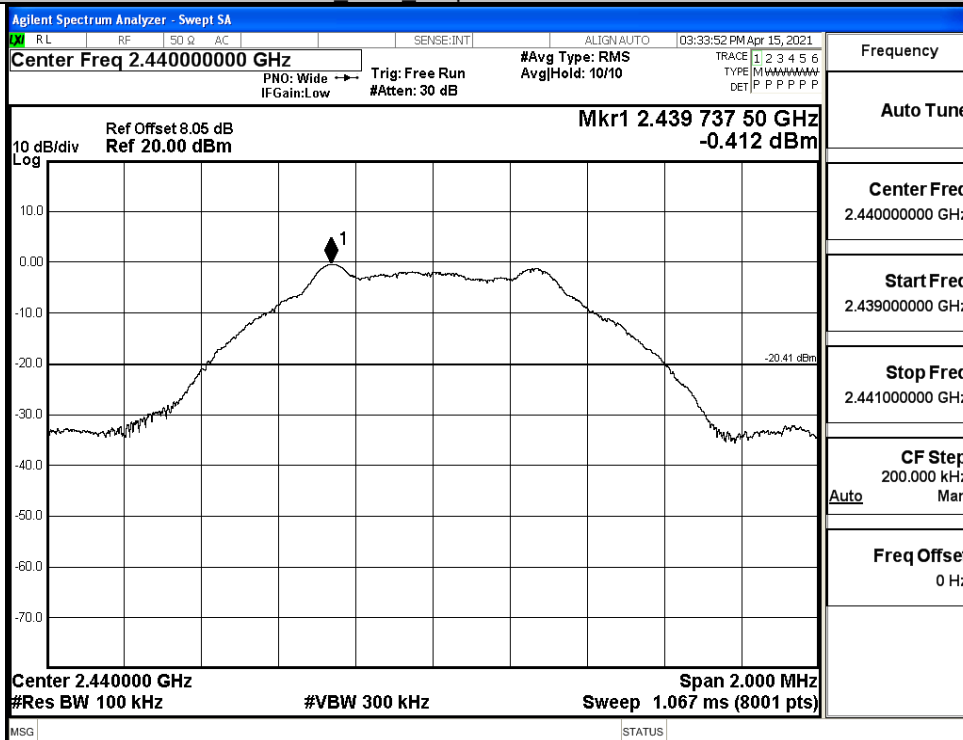
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.07	-38.247	-18.930	PASS
BT LE	MCH	-0.412	-38.000	-20.412	PASS
BT LE	HCH	-2.437	-37.284	-22.437	PASS

BT LE LCH Graphs



BT LE MCH Graphs

Pref/BT LE/MCH

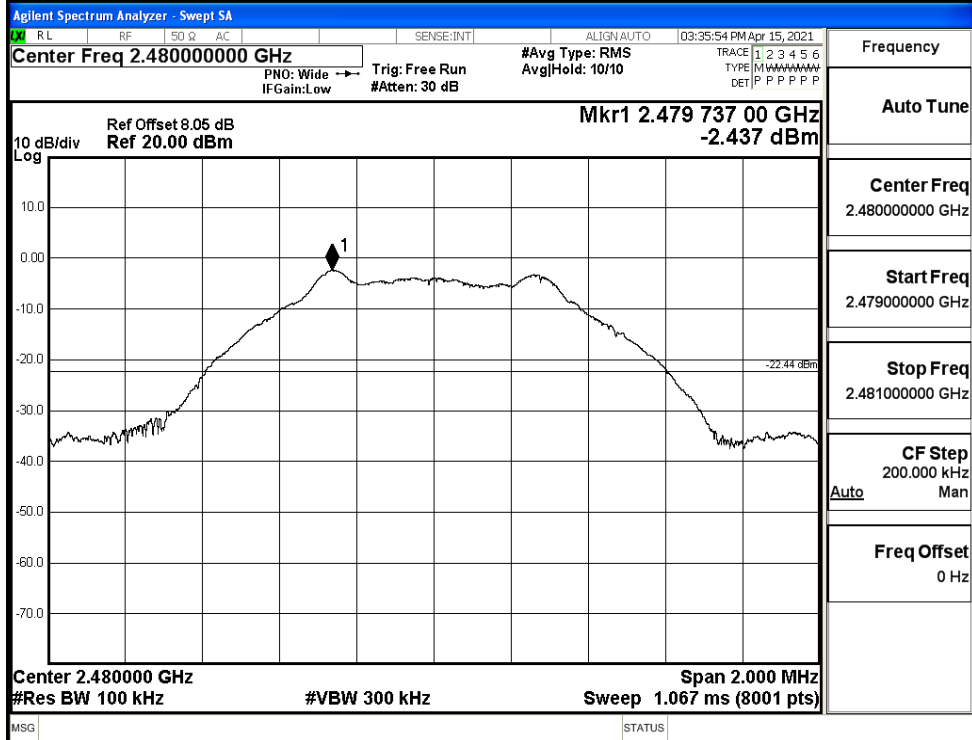


Puw/BT LE/MCH



BT LE HCH Graphs

Pref/BT LE/HCH



Puw/BT LE/HCH

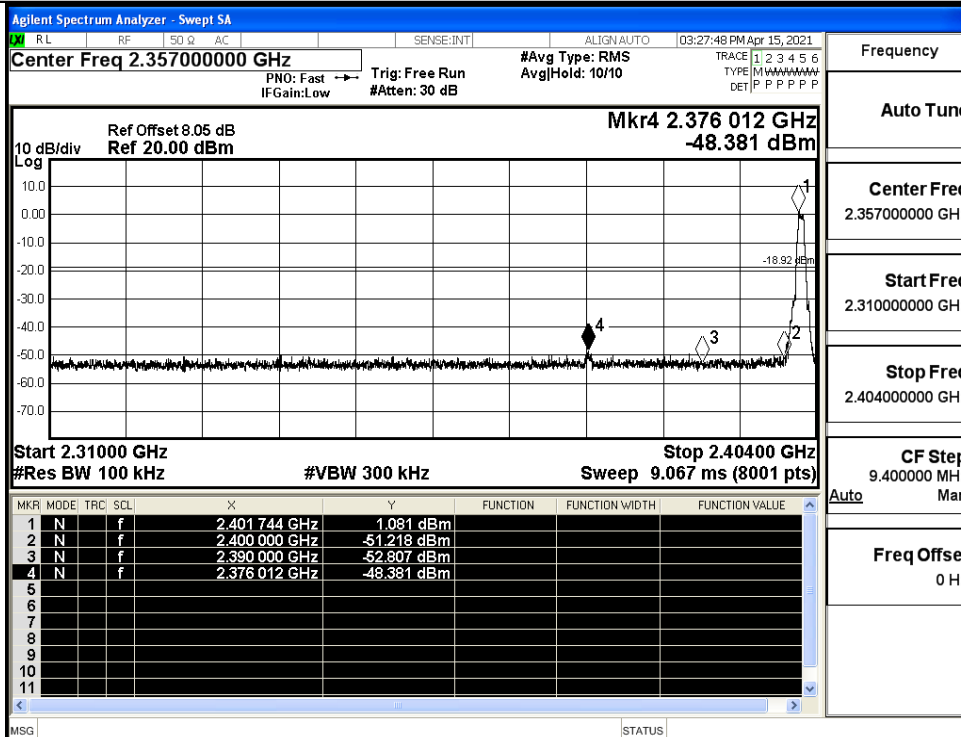


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.081	-48.381	-18.92	PASS
BT LE	HCH	-2.414	-48.668	-22.41	PASS

Test Graphs

LCH



Frequency

Auto Tune

Center Freq
2.357000000 GHz

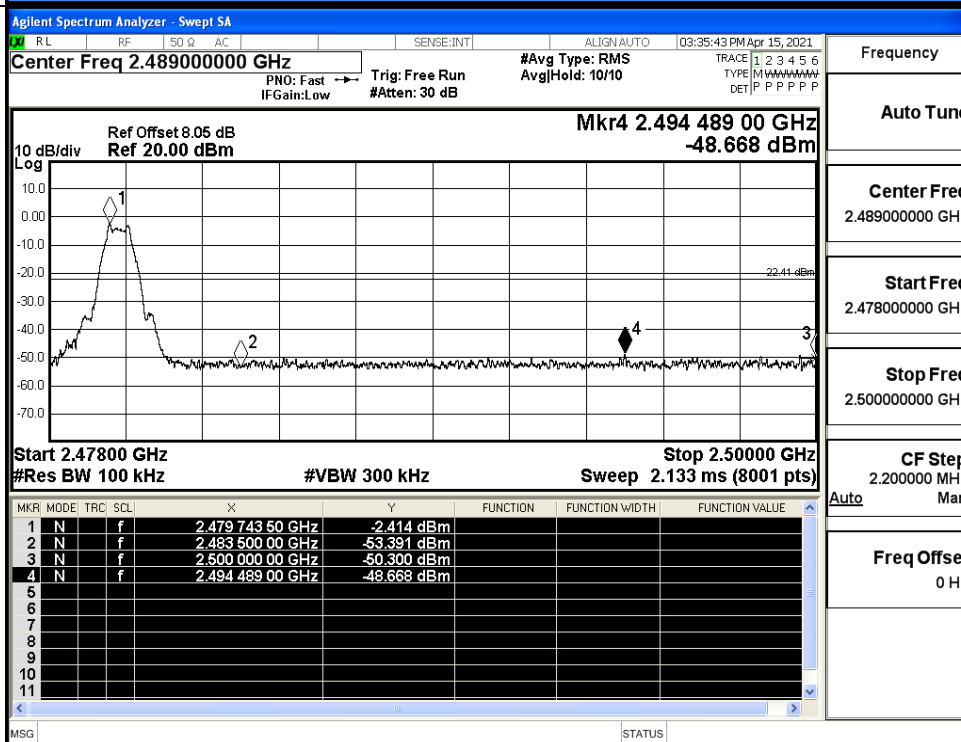
Start Freq
2.310000000 GHz

Stop Freq
2.404000000 GHz

CF Step
9.400000 MHz

Freq Offset
0 Hz

HCH



Frequency

Auto Tune

Center Freq
2.489000000 GHz

Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

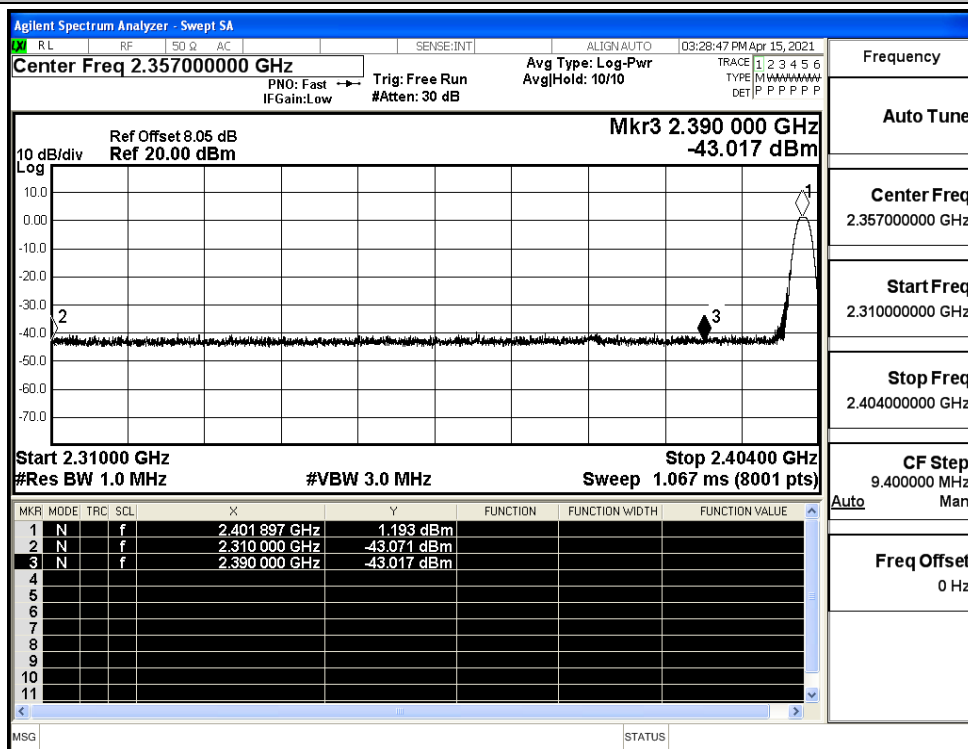
CF Step
2.200000 MHz

Freq Offset
0 Hz

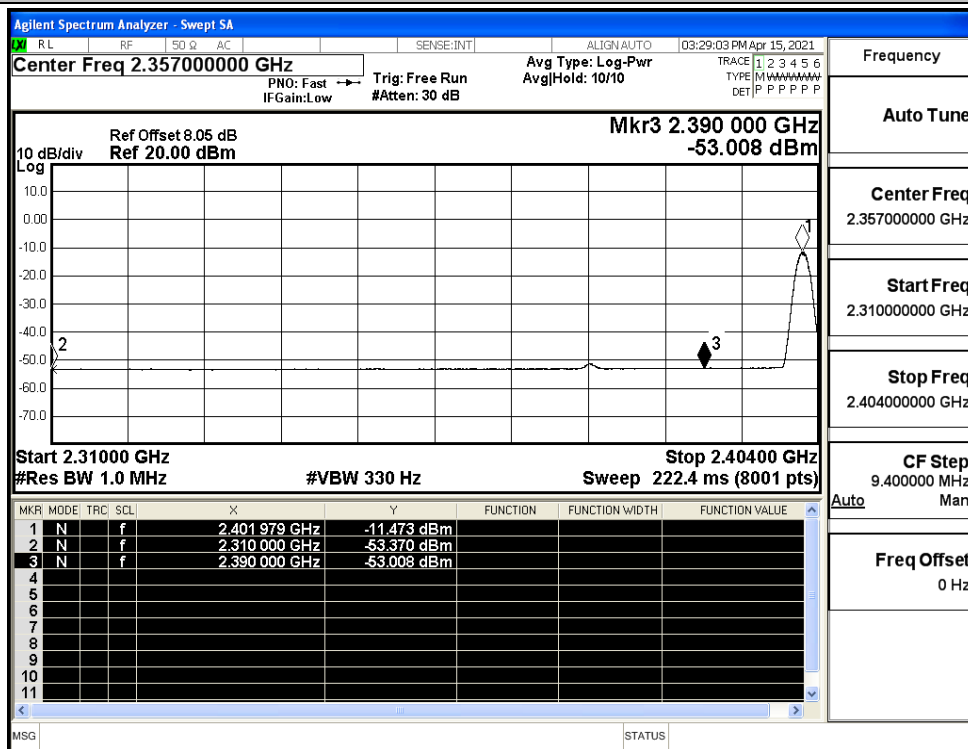
A.8 Restrict-band band-edge measurements

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	-43.07	2.0	0	54.16	PEAK	74	PASS
		Ant1	2310.0	-53.37	2.0	0	43.86	AV	54	PASS
		Ant1	2390.0	-43.02	2.0	0	54.21	PEAK	74	PASS
		Ant1	2390.0	-53.01	2.0	0	44.22	AV	54	PASS
	2480	Ant1	2483.5	-43.17	2.0	0	54.06	PEAK	74	PASS
		Ant1	2483.5	-52.47	2.0	0	44.76	AV	54	PASS
		Ant1	2500.0	-42.53	2.0	0	54.70	PEAK	74	PASS
		Ant1	2500.0	-52.36	2.0	0	44.87	AV	54	PASS

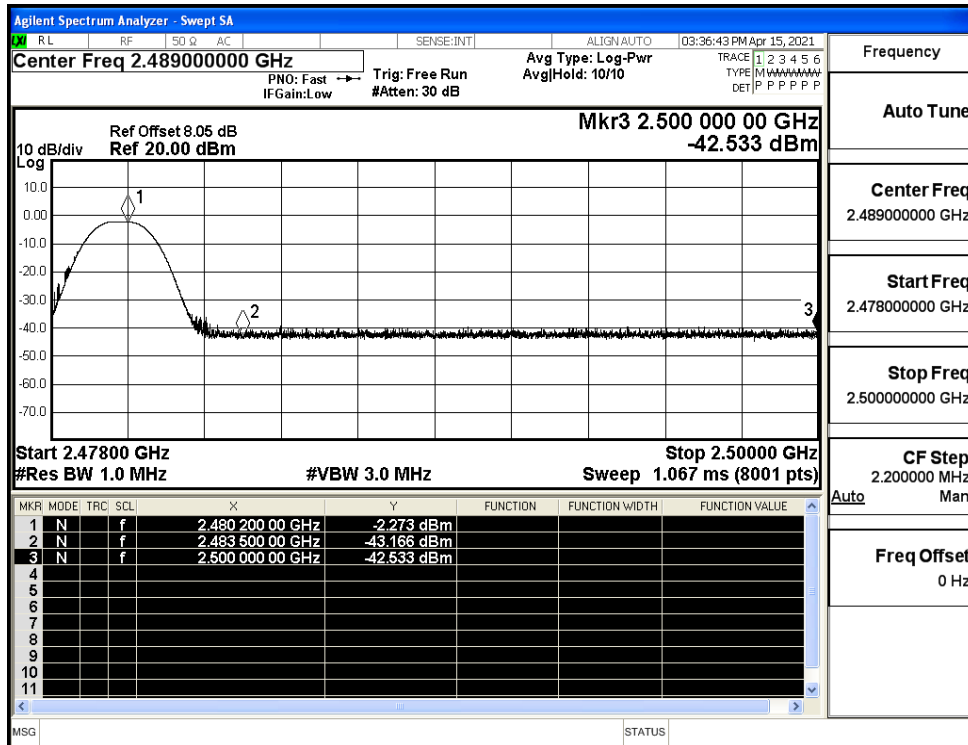
Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



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

