

Appendix B

RF Test Data for BT V4.1(BDR/EDR) (Conducted Measurement)

Product Name: Friendship Lamp

Trade Mark: Brookstone

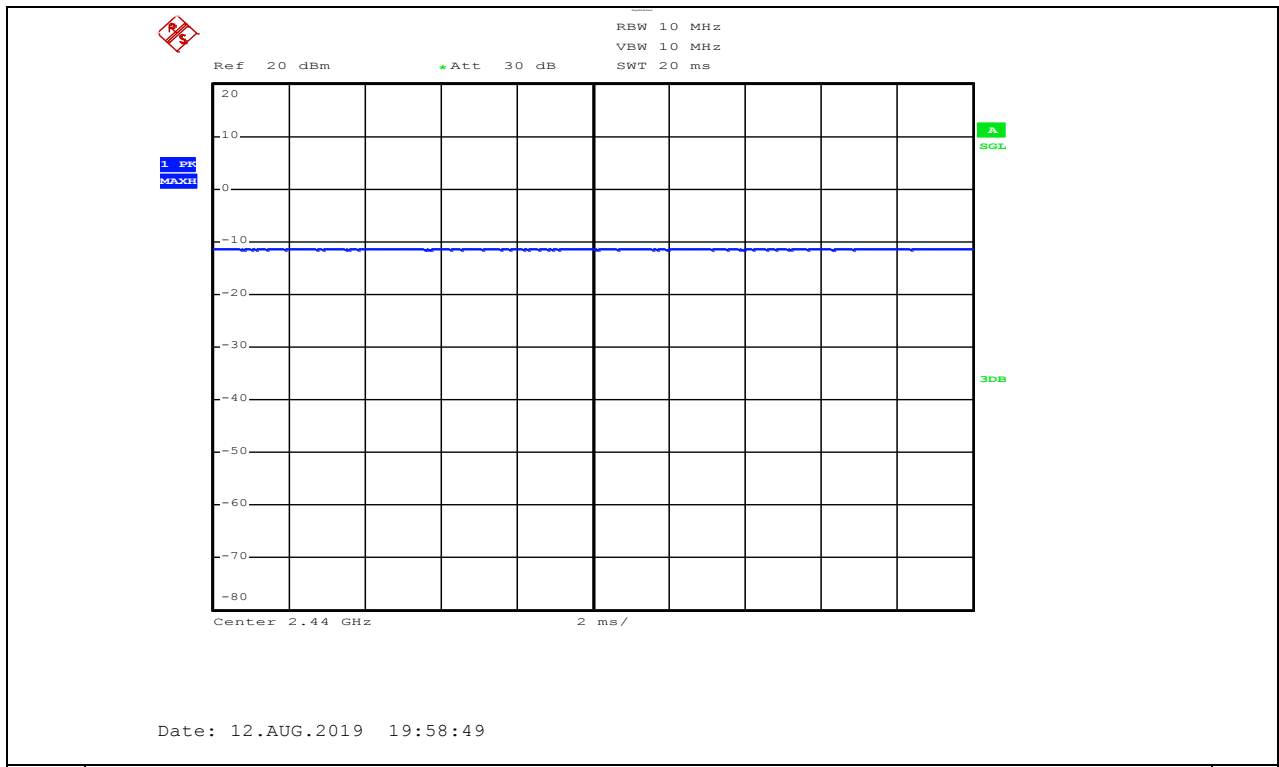
Test Model: BSFL1800

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	JERRY.ZENG
Supervised by:	Wang.Chuang

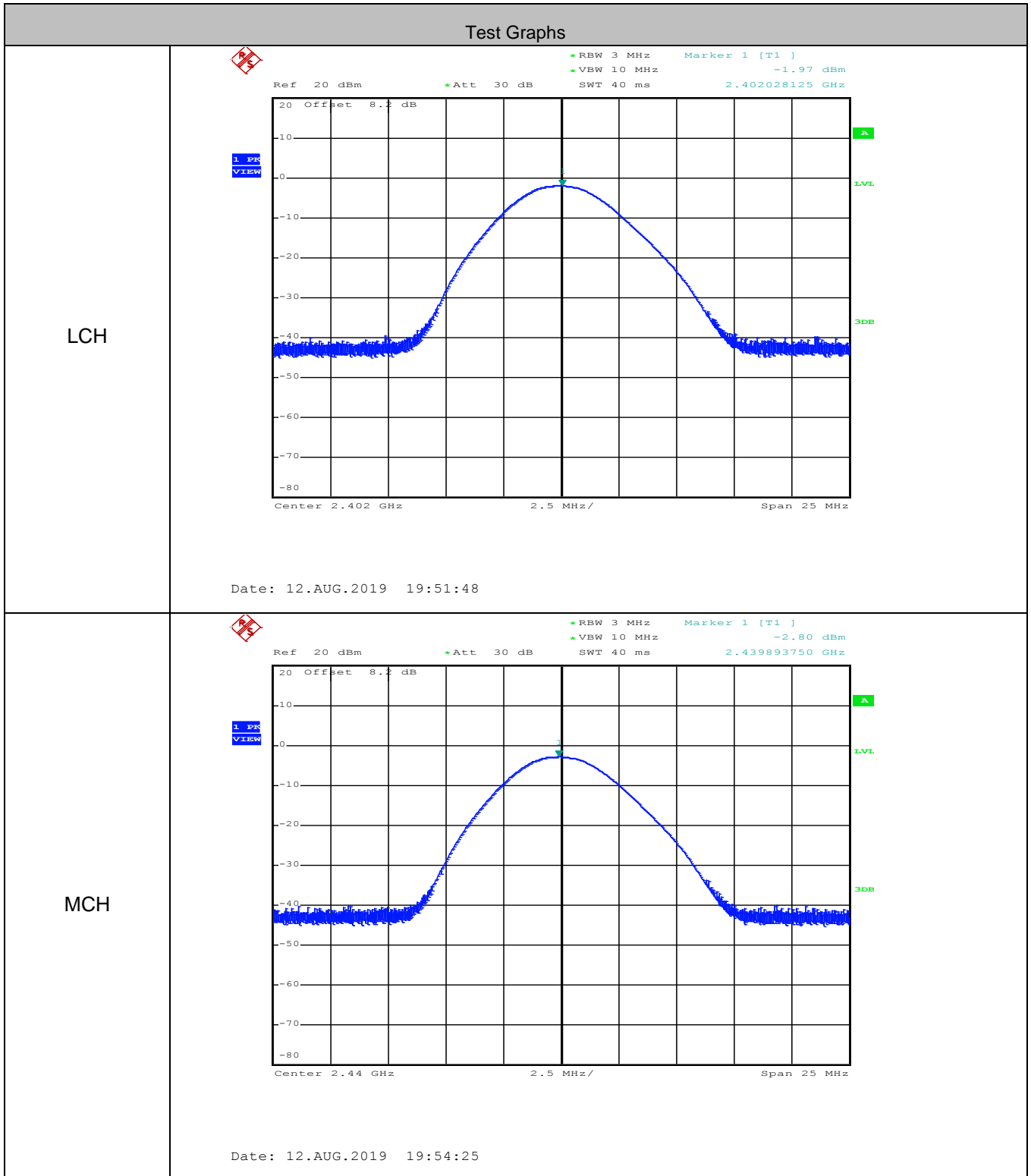
B.1 Duty Cycle

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



B.2 Maximum Conducted Peak Output Power

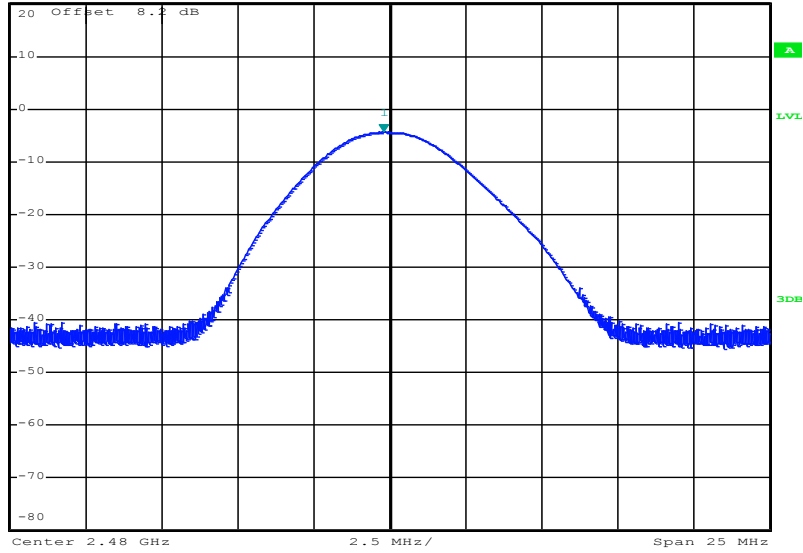
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.97	30	PASS
BT LE	MCH	-2.8	30	PASS
BT LE	HCH	-4.36	30	PASS



HCH



Ref 20 dBm *Att 30 dB RBW 3 MHz Marker 1 [T1] -4.36 dBm
*VBW 10 MHz SWT 40 ms 2.479778125 GHz



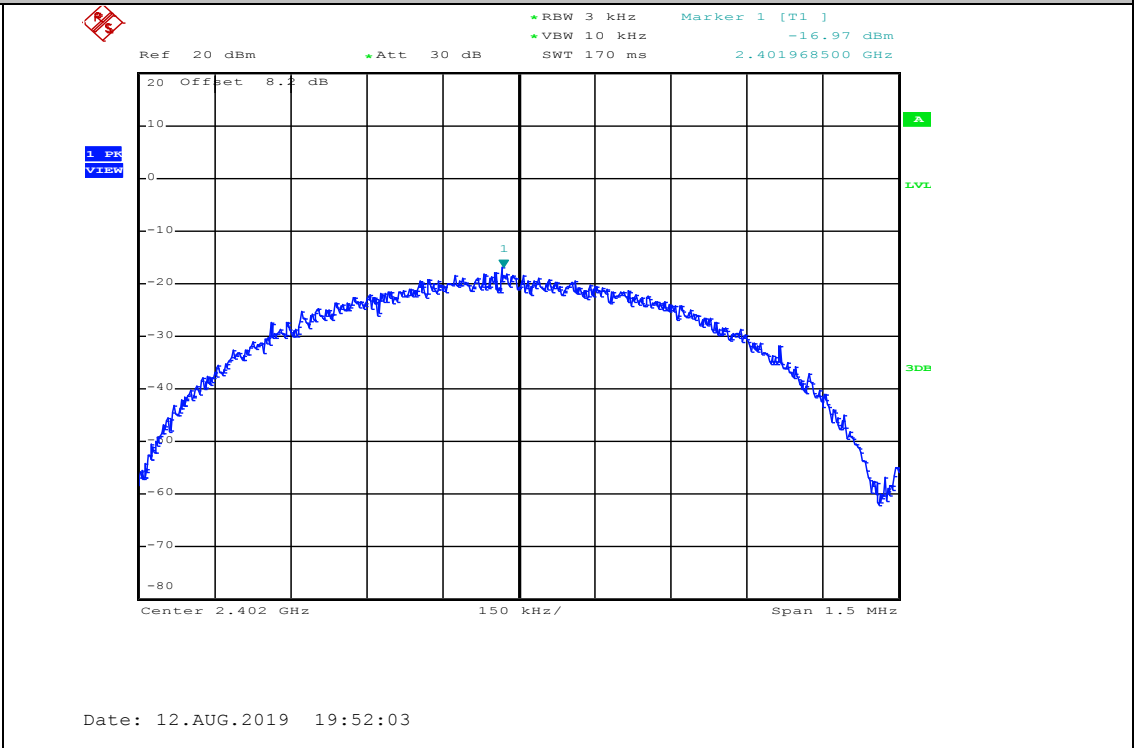
Date: 12.AUG.2019 19:56:22

B.3 Maximum Power Spectral Density

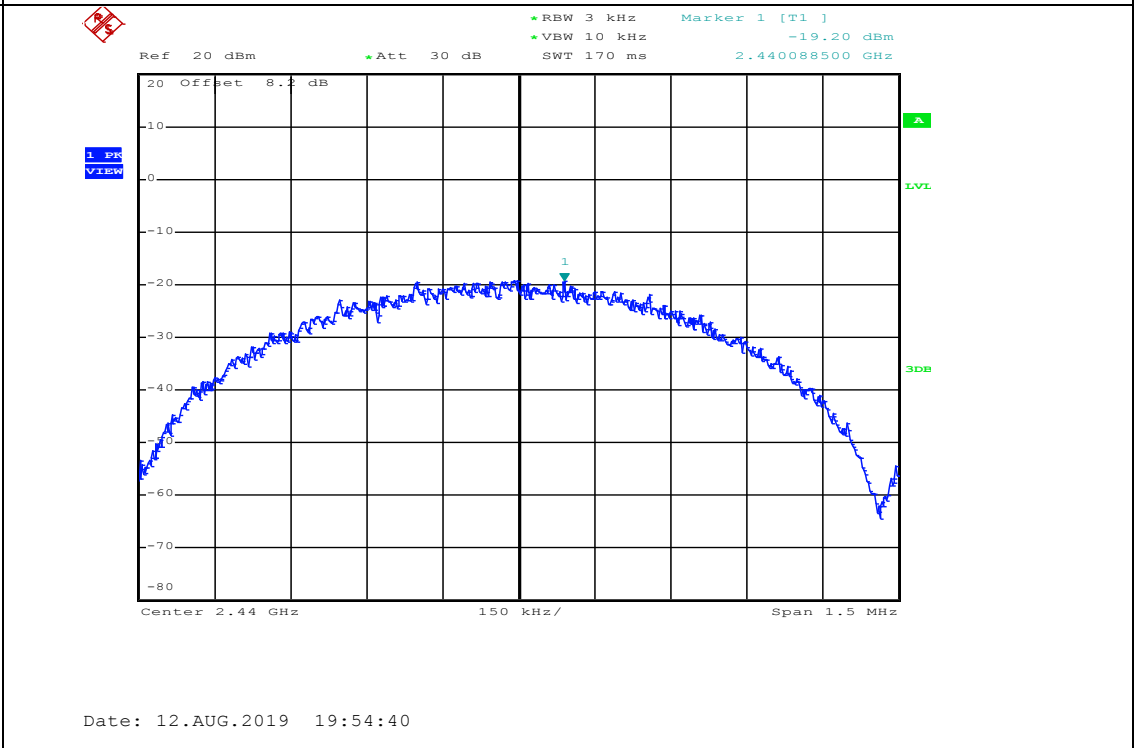
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-16.970	8	PASS
BT LE	MCH	-19.200	8	PASS
BT LE	HCH	-20.690	8	PASS

Test Graphs

LCH



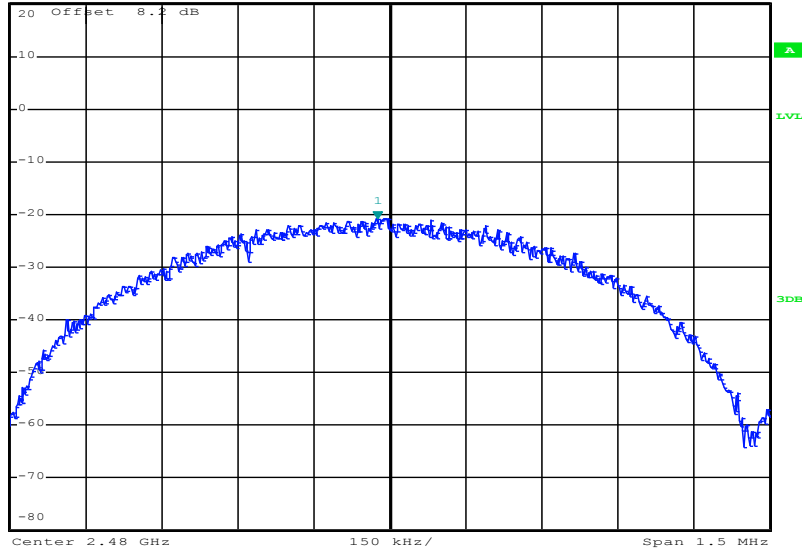
MCH



HCH



Ref 20 dBm *Att 30 dB *RBW 3 kHz Marker 1 [T1]
*VBW 10 kHz -20.69 dBm
SWT 170 ms 2.479976000 GHz



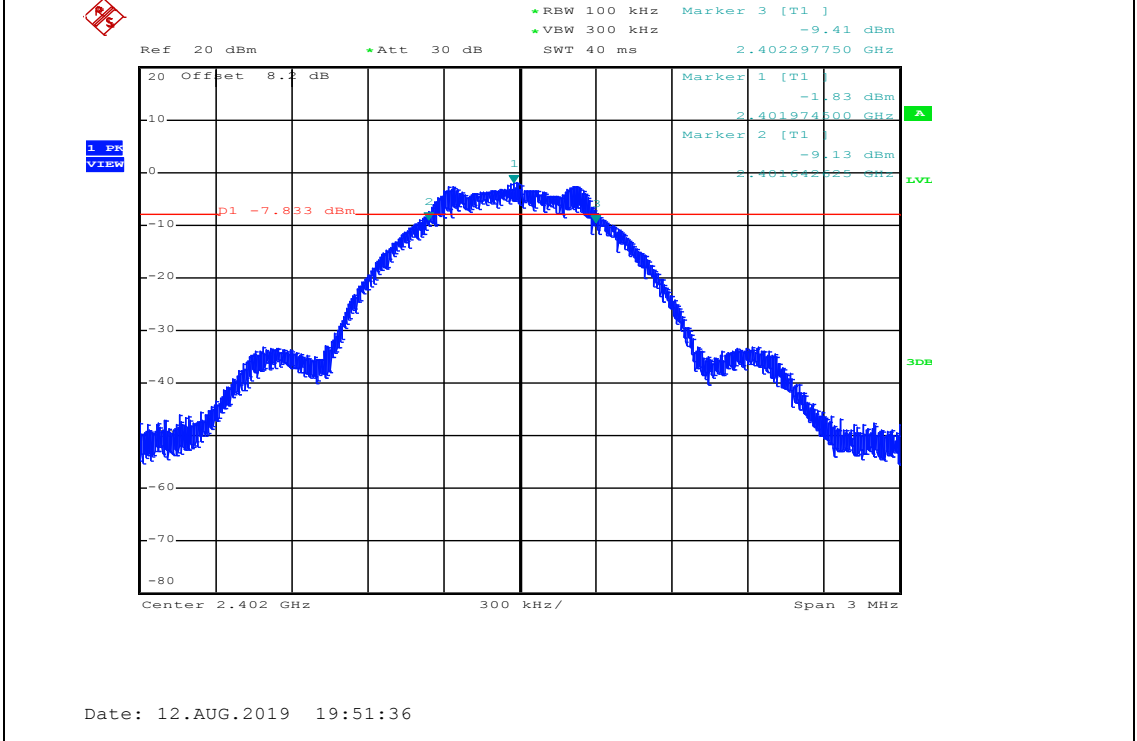
Date: 12.AUG.2019 19:56:37

B.4 6dB Bandwidth

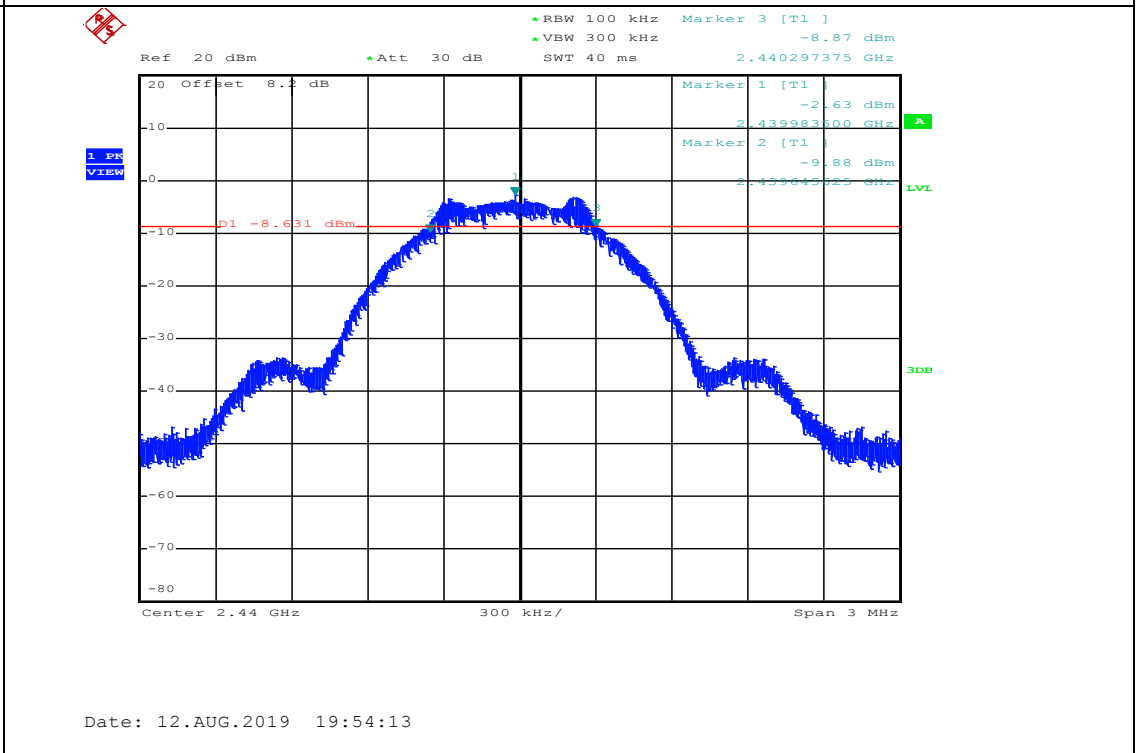
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.655	≥0.5	PASS
BT LE	MCH	0.652	≥0.5	PASS
BT LE	HCH	0.658	≥0.5	PASS

Test Graphs

LCH



MCH

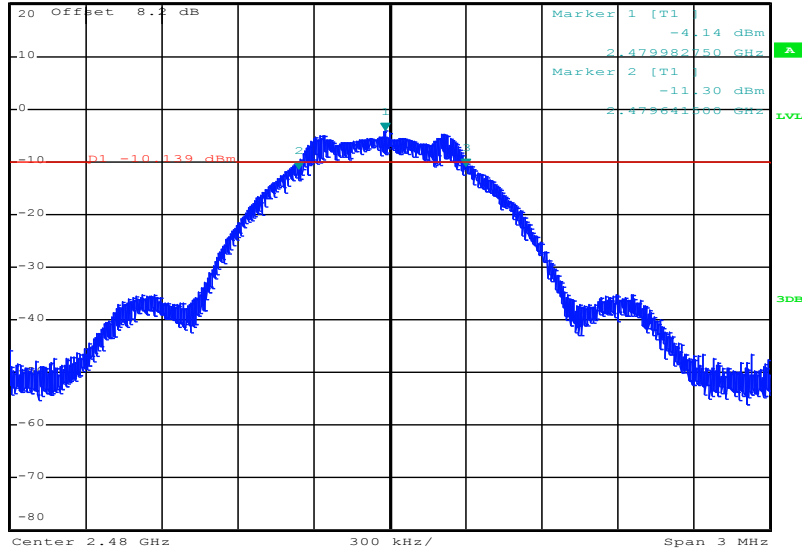


HCH



Ref 20 dBm *Att 30 dB RBW 100 kHz Marker 3 [T1] -10.91 dBm
*VBW 300 kHz SWT 40 ms 2.480299250 GHz

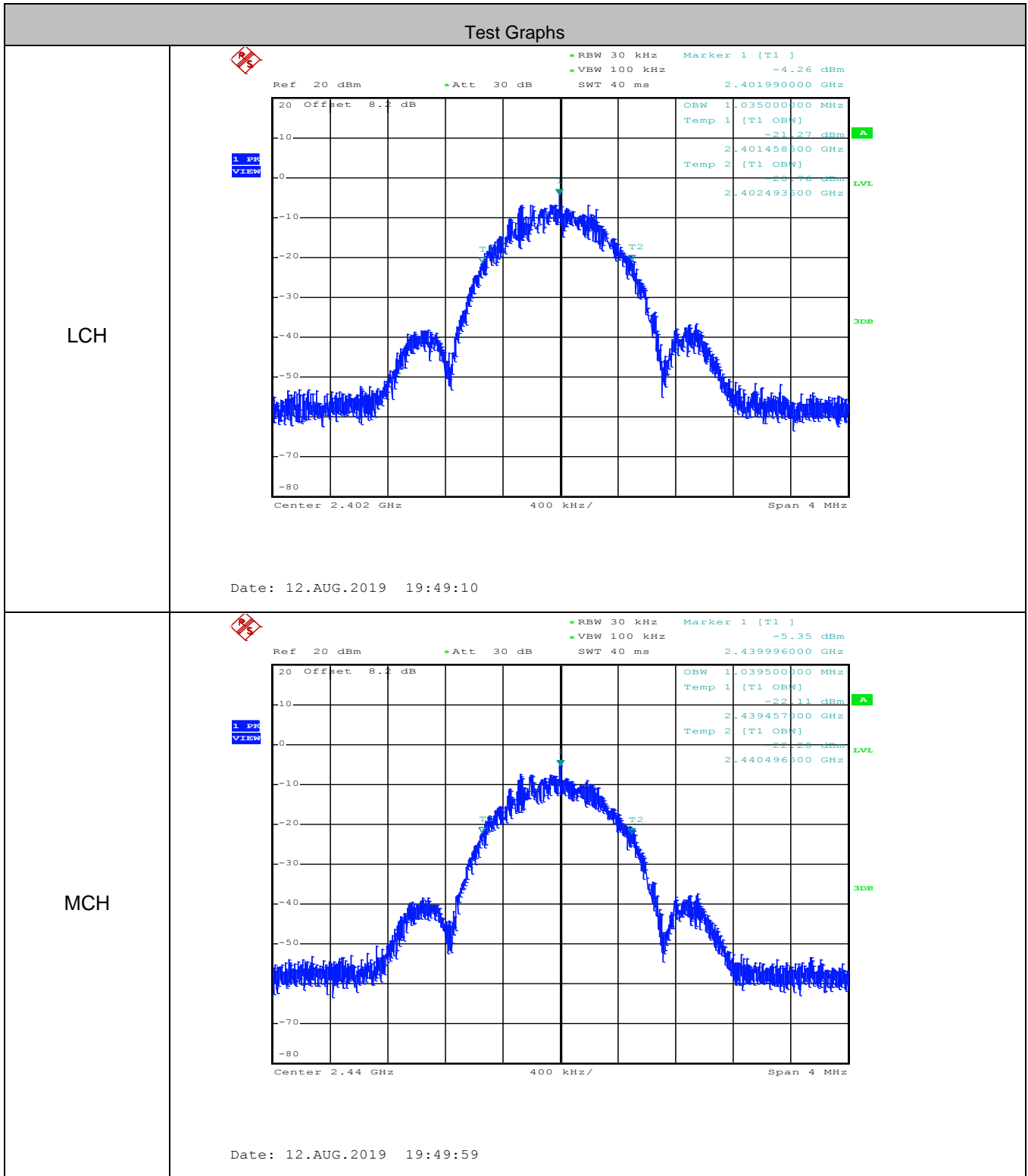
1 PR
VIEW

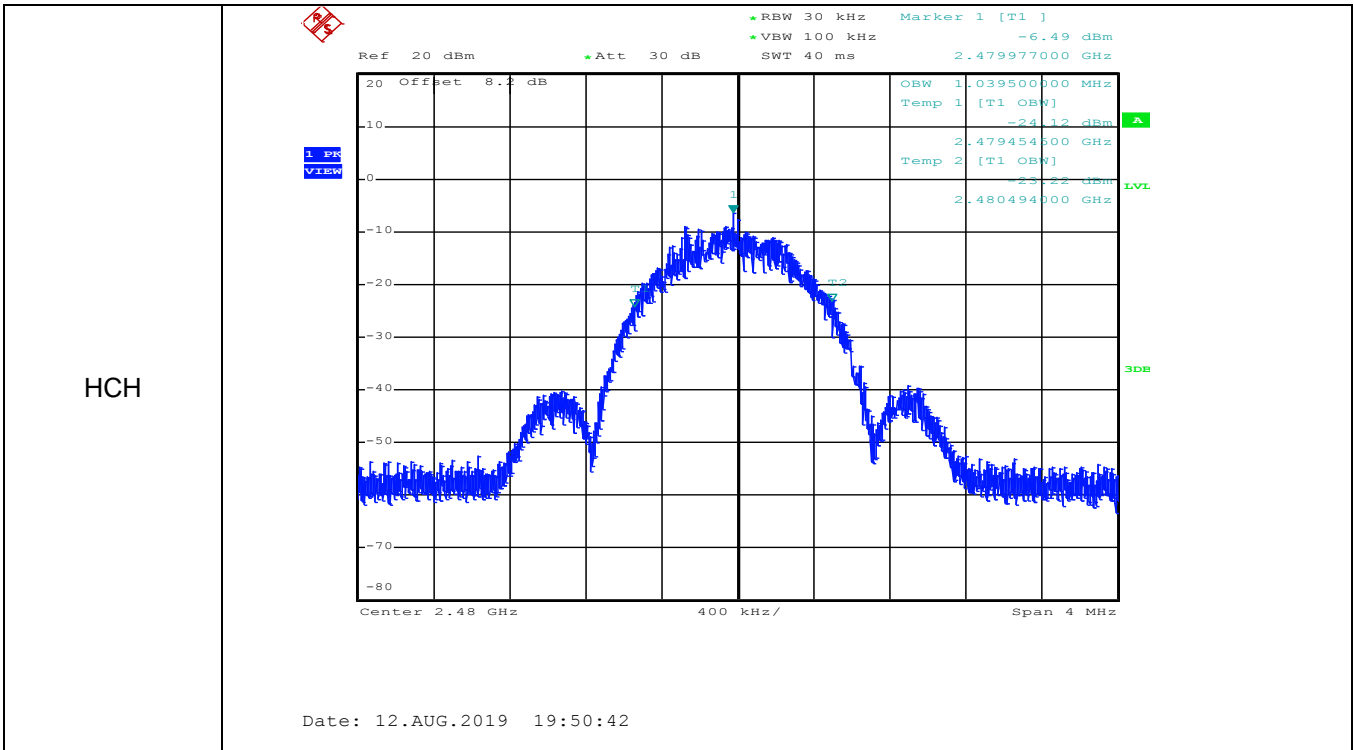


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B.5 Occupied Bandwidth

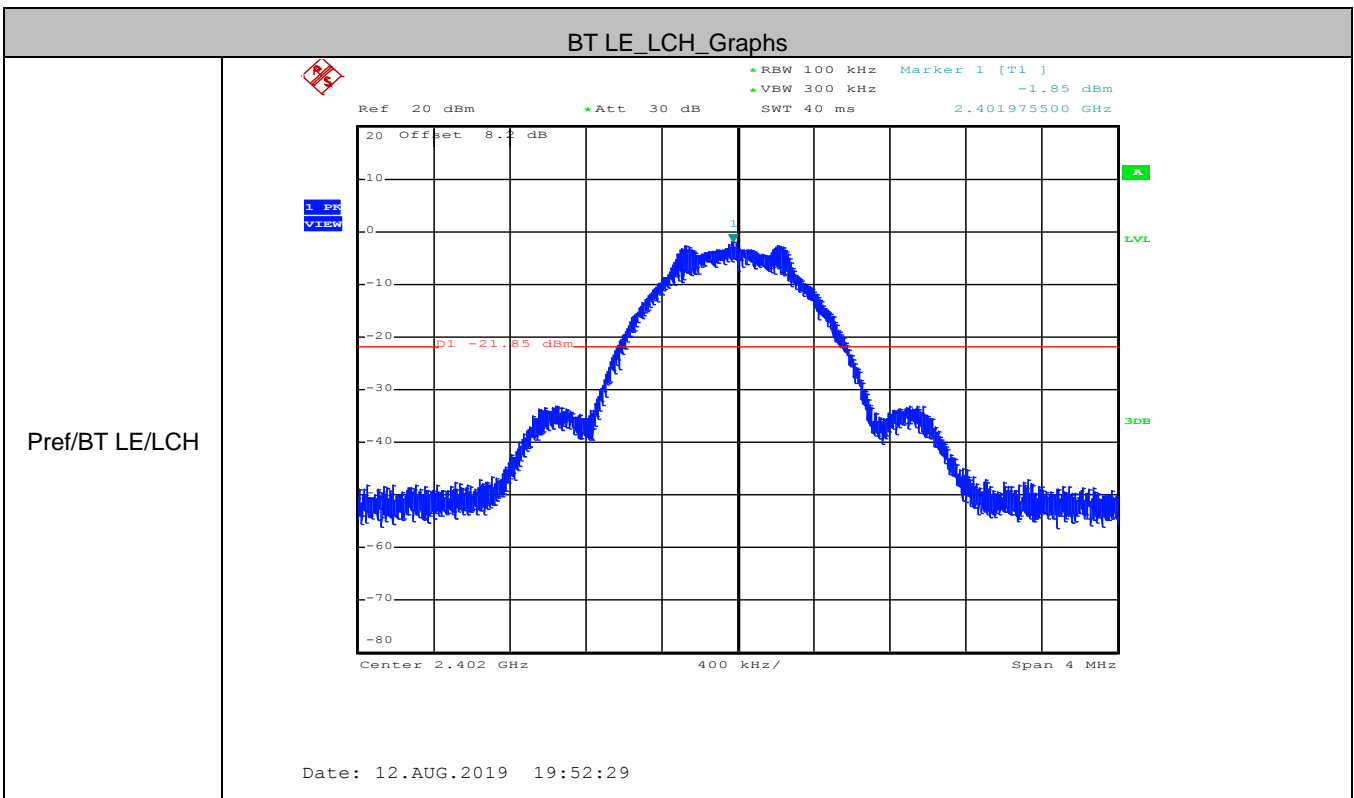
Mode	Channel	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	1.035	≥0.5	PASS
BT LE	MCH	1.040	≥0.5	PASS
BT LE	HCH	1.040	≥0.5	PASS



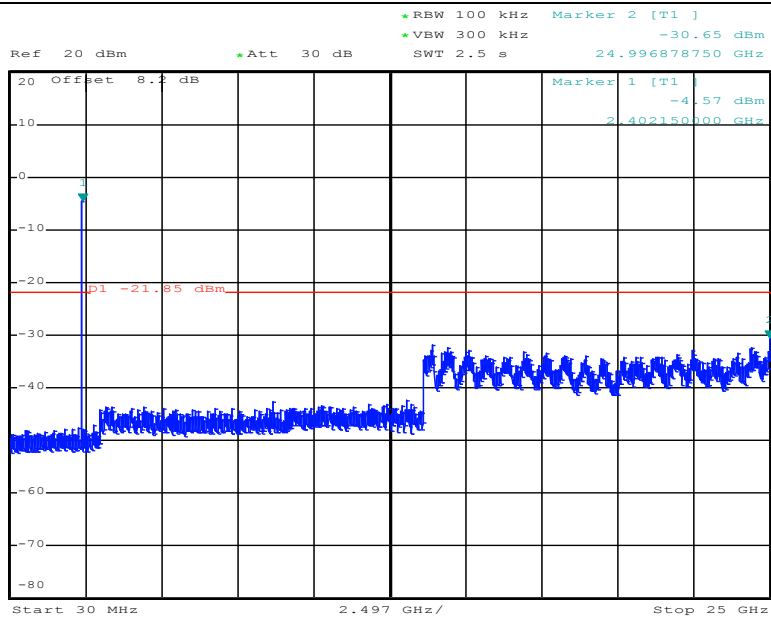


B.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.85	-30.650	-21.850	PASS
BT LE	MCH	-2.7	-30.230	-22.700	PASS
BT LE	HCH	-4.3	-31.890	-24.300	PASS



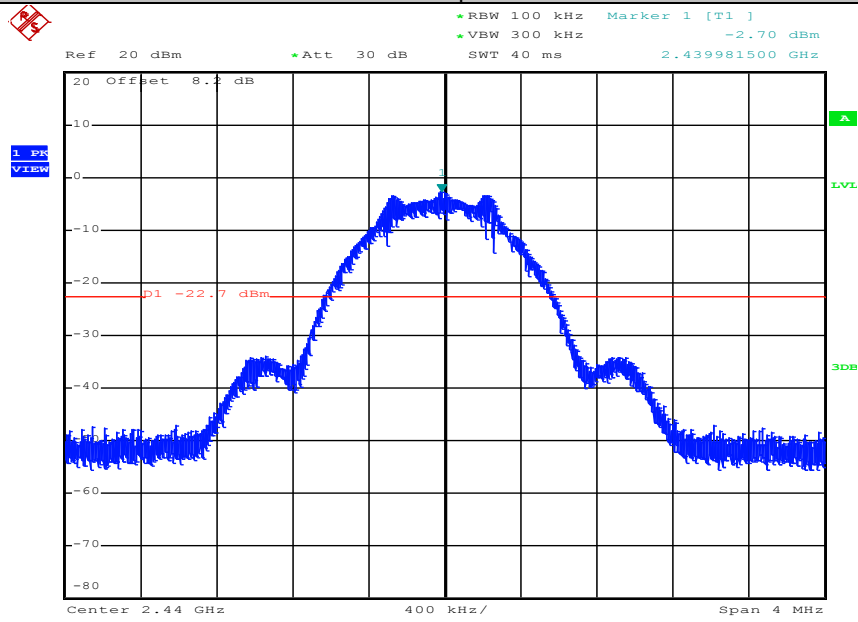
Puw/BT LE/LCH



Date: 12.AUG.2019 19:53:00

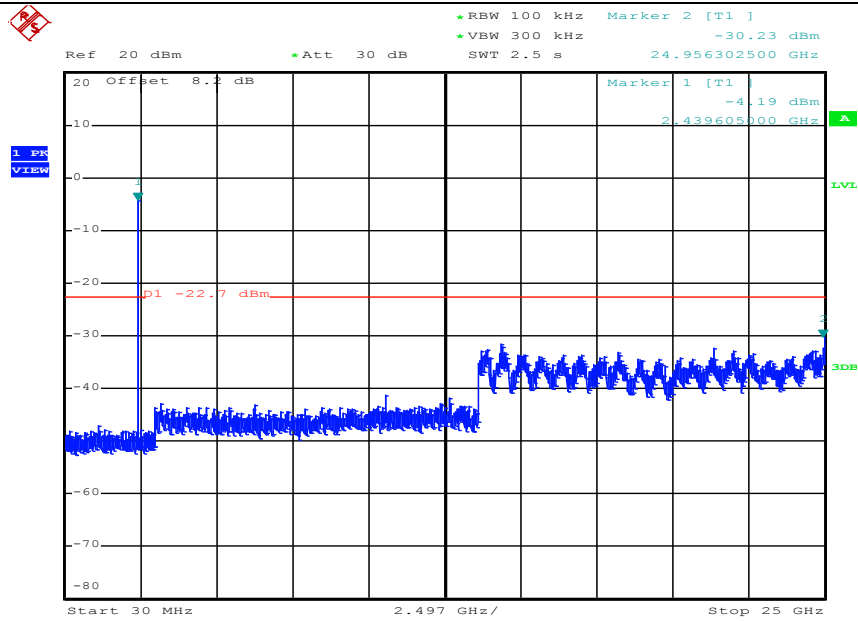
BT LE_MCH_Graphs

Pref/BT LE/MCH



Date: 12.AUG.2019 19:54:53

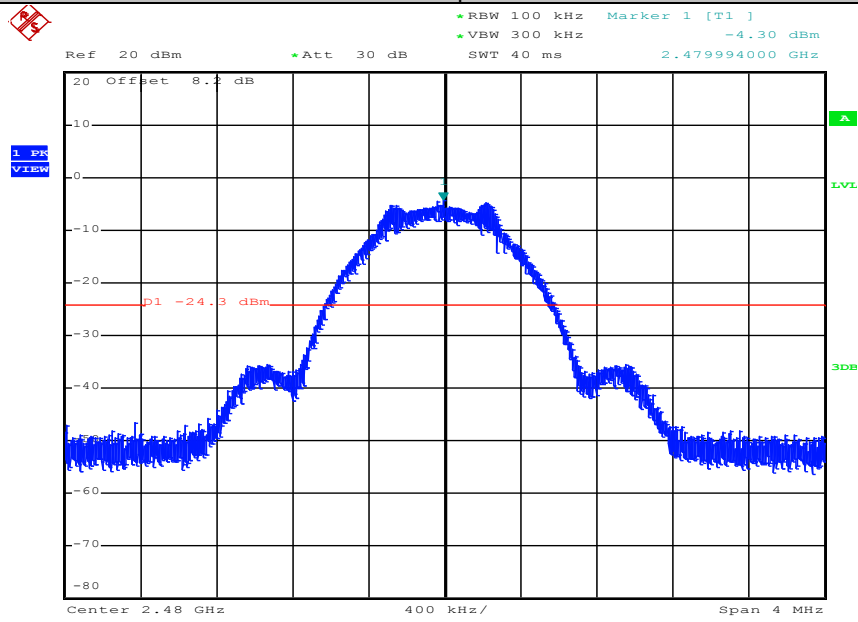
Puw/BT LE/MCH



Date: 12.AUG.2019 19:55:23

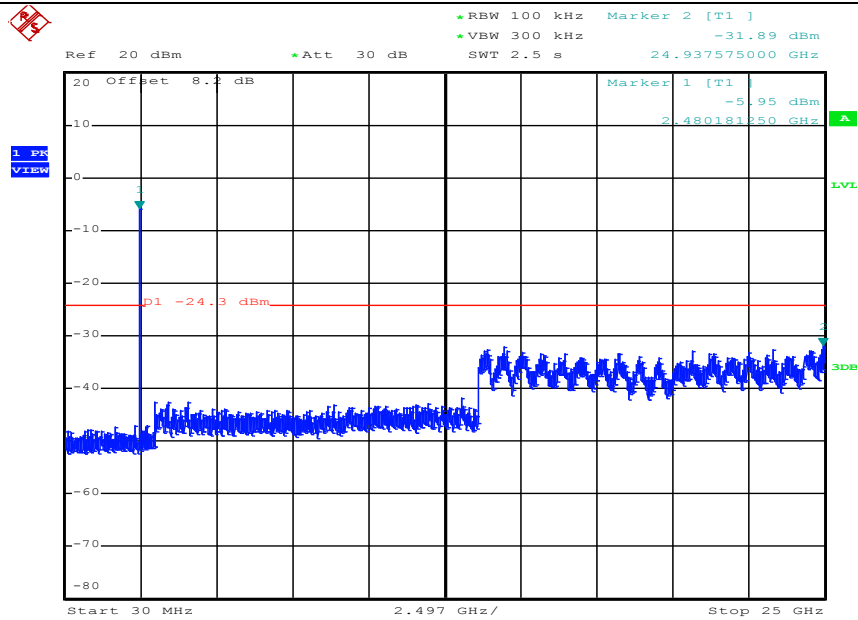
BT LE_HCH_Graphs

Pref/BT LE/HCH



Date: 12.AUG.2019 19:57:03

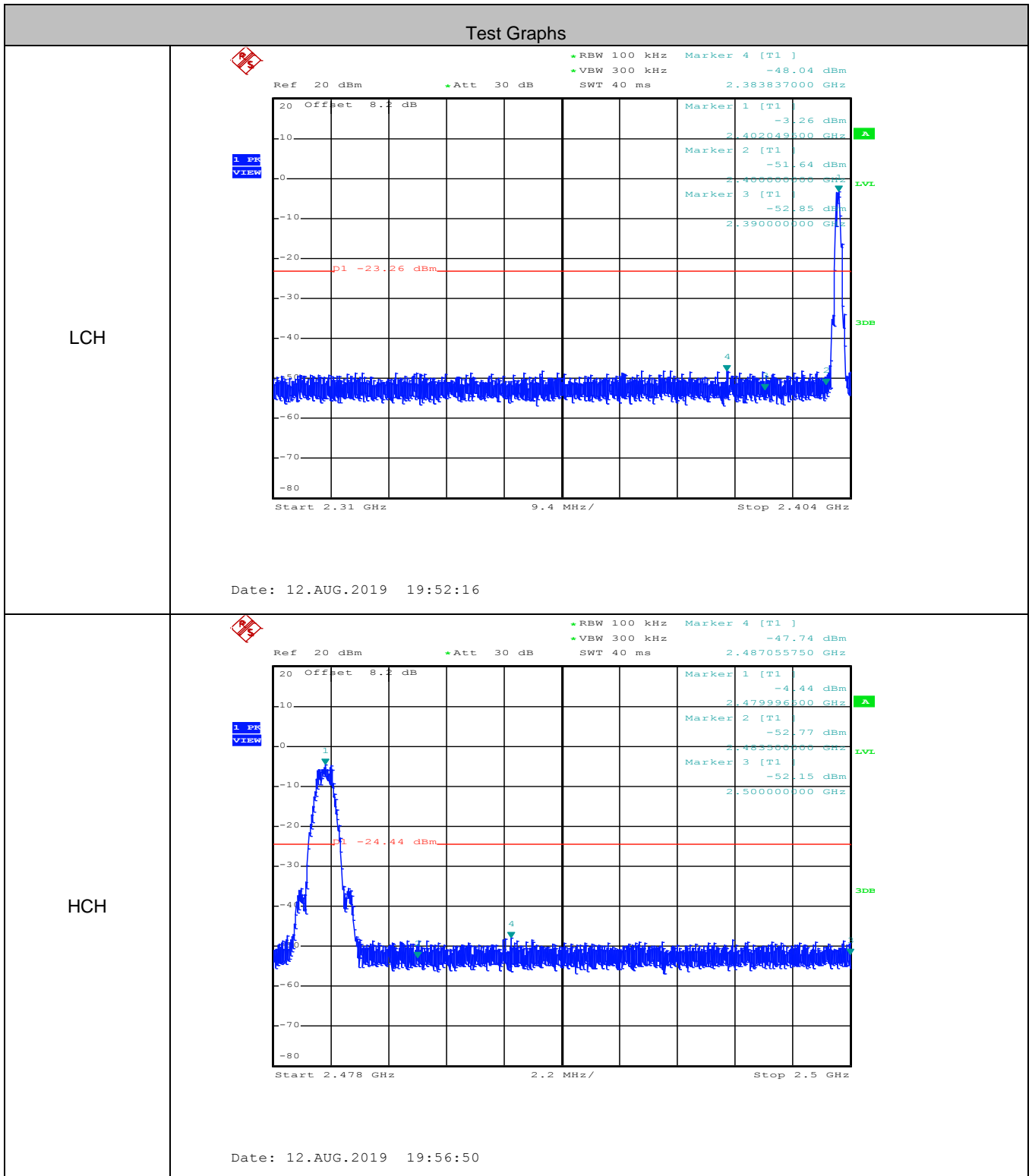
Puw/BT LE/HCH



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B.7 Band-edge for RF Conducted Emissions

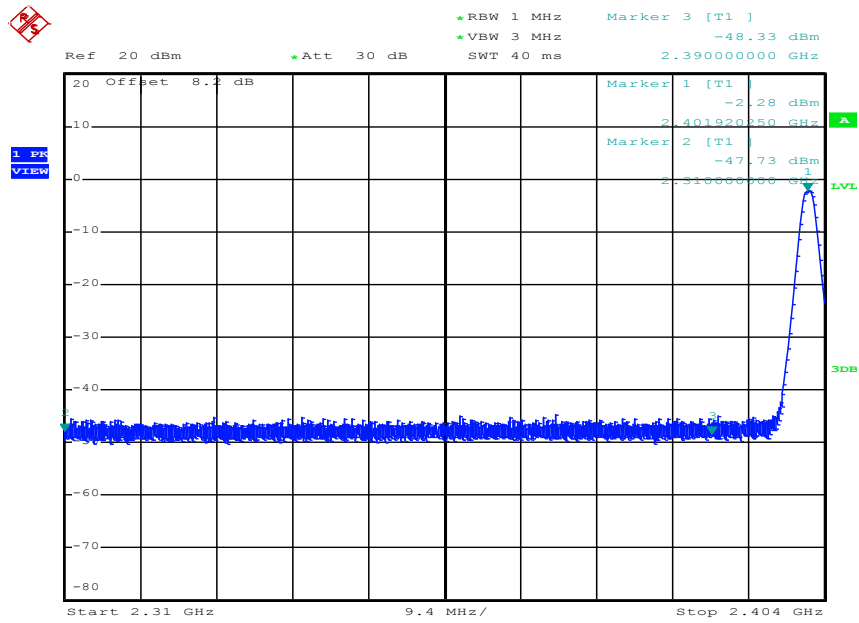
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-3.260	-48.036	-23.26	PASS
BT LE	HCH	-4.440	-47.738	-24.44	PASS



B.8 Restrict-band band-edge measurements

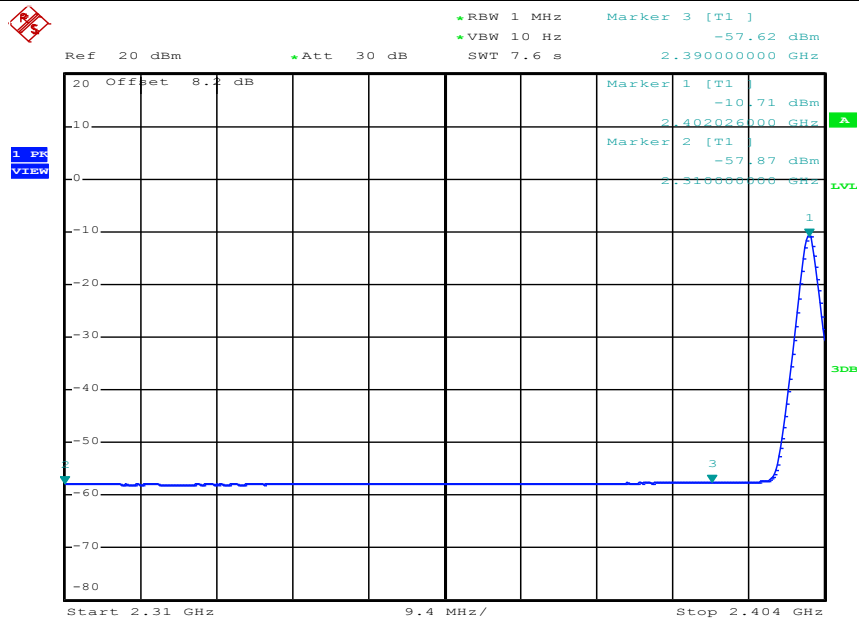
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-47.73	2.0	0	47.53	PEAK	74	PASS
		Ant1	2310.0	-57.87	2.0	0	37.39	AV	54	PASS
		Ant1	2390.0	-48.33	2.0	0	46.93	PEAK	74	PASS
		Ant1	2390.0	-57.62	2.0	0	37.64	AV	54	PASS
	2480	Ant1	2483.5	-42.04	2.0	0	53.22	PEAK	74	PASS
		Ant1	2483.5	-49.25	2.0	0	46.01	AV	54	PASS
		Ant1	2500.0	-47.84	2.0	0	47.42	PEAK	74	PASS
		Ant1	2500.0	-58.31	2.0	0	36.95	AV	54	PASS

Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



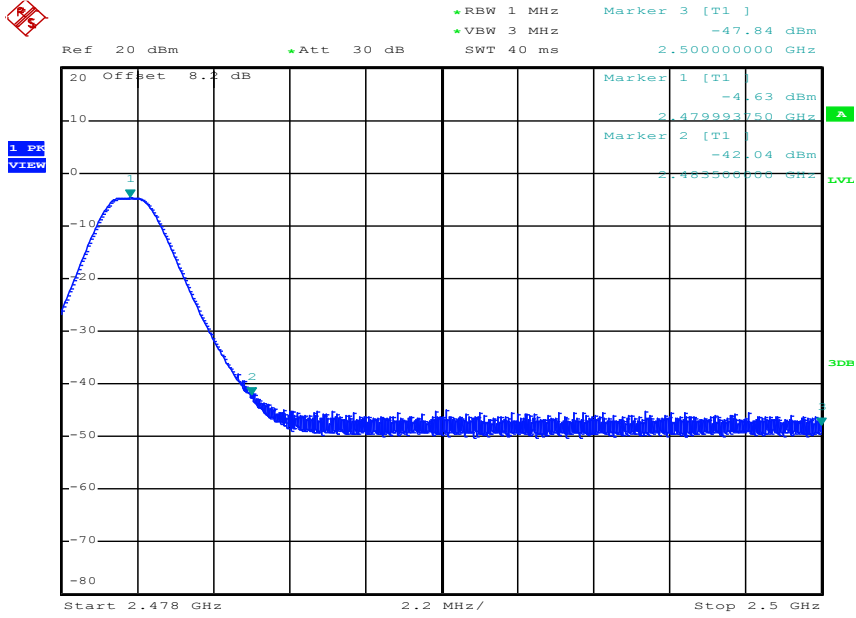
Date: 12.AUG.2019 19:53:19

Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



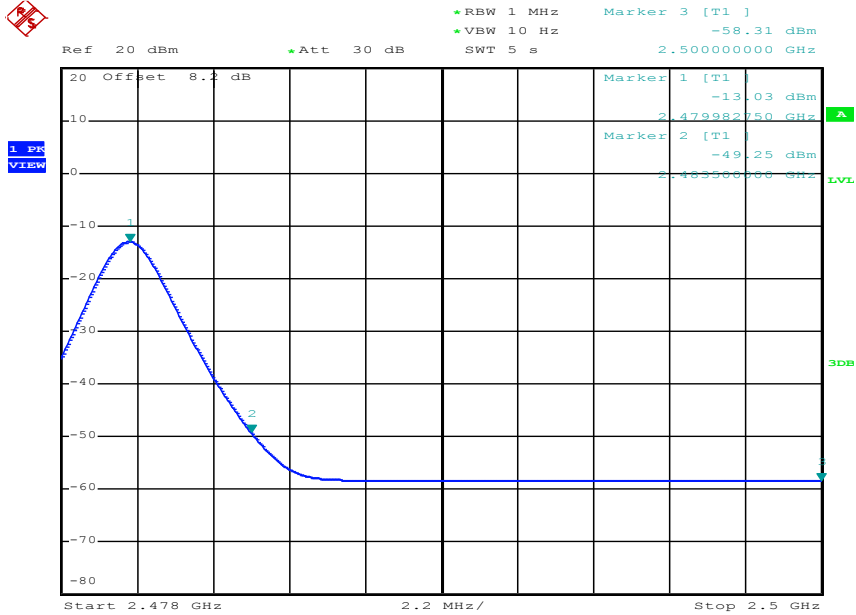
Date: 12.AUG.2019 19:53:34

Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Date: 12.AUG.2019 19:57:53

Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



Date: 12.AUG.2019 19:58:08