

Appendix B

RF Test Data for BT V4.0(BDR/EDR) (Conducted Measurement)

Product Name: Vibration Speaker

Trade Mark: Adin

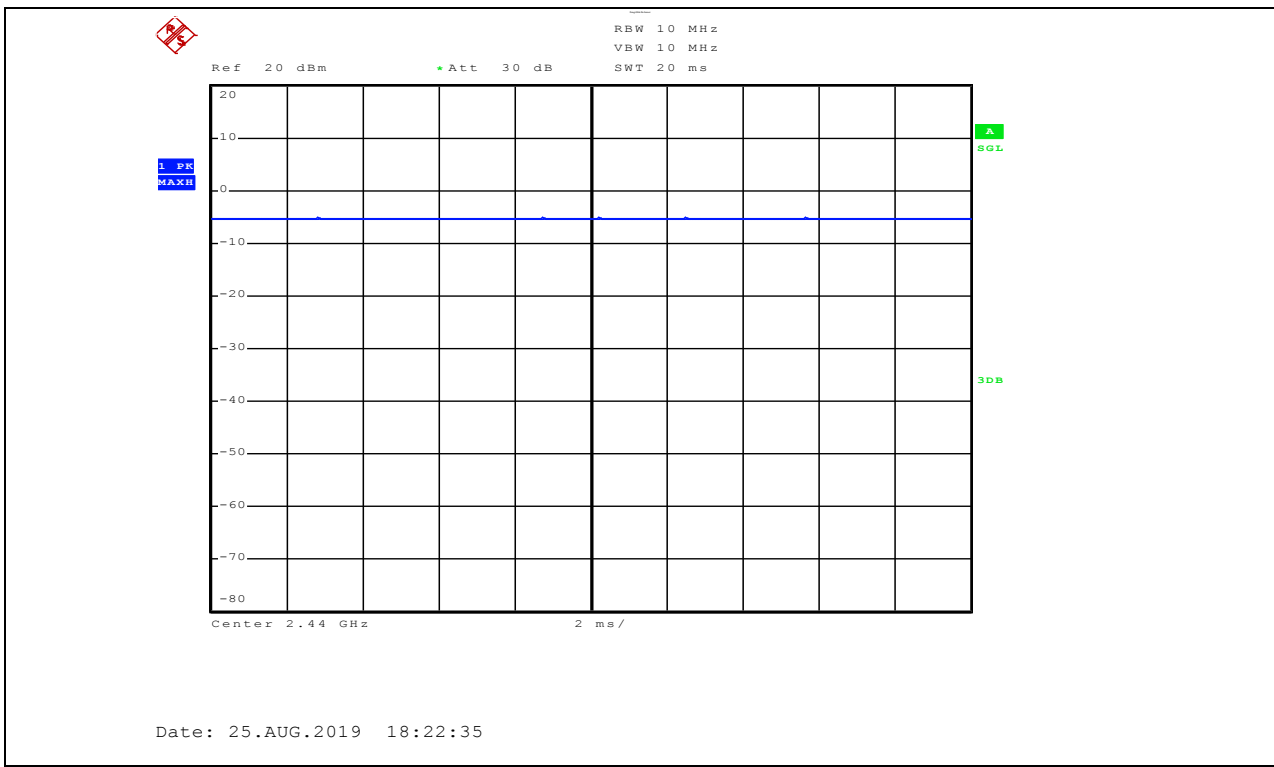
Test Model: BTBOX

Environmental Conditions

Temperature:	23.4 °C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	David Luo
Supervised by:	Wang.Chuang

B.1 Duty Cycle

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

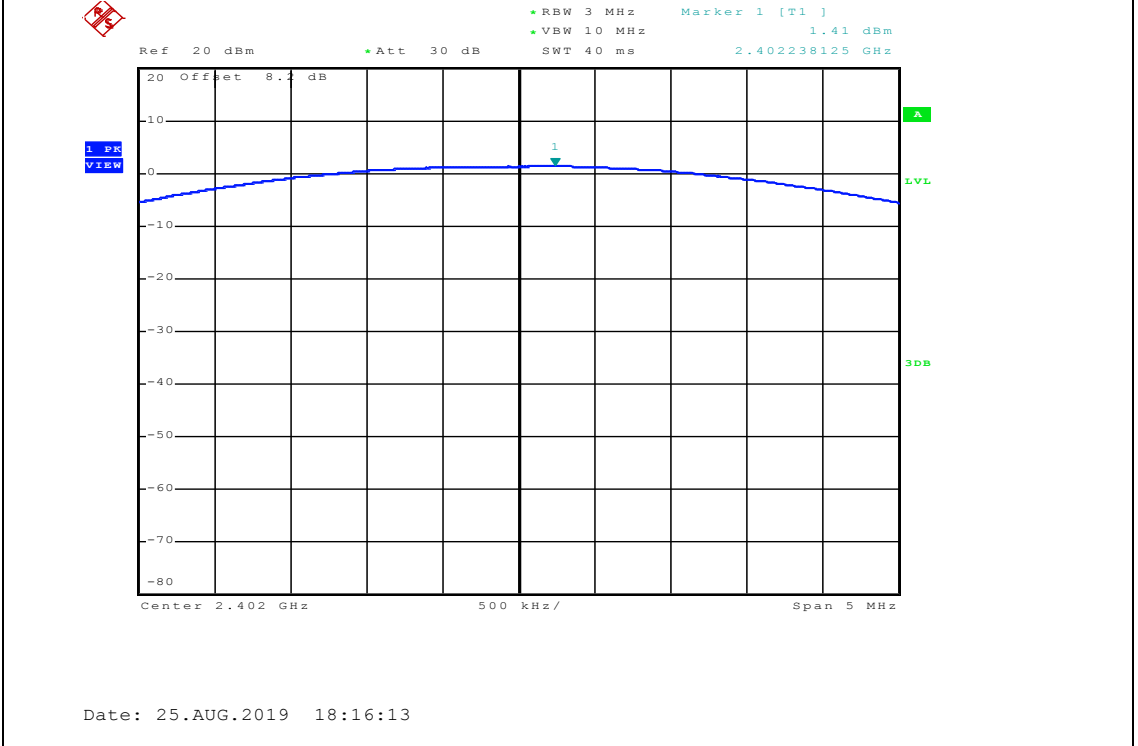


B.2 Maximum Conducted Peak Output Power

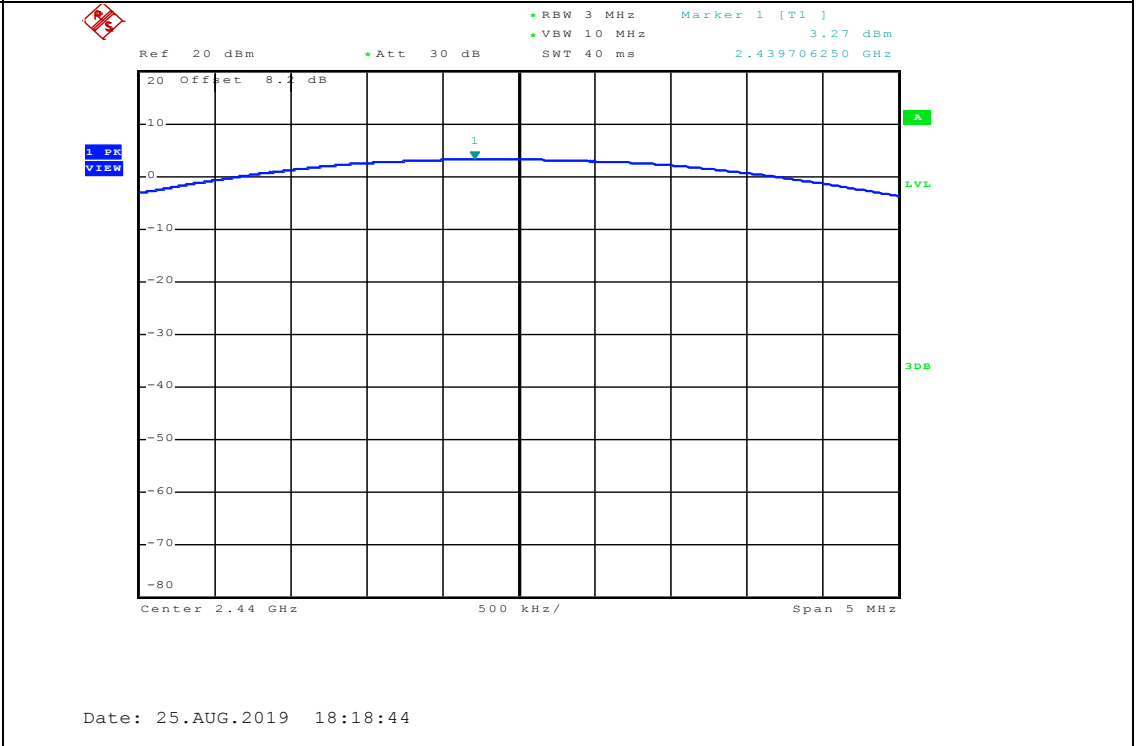
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.41	30	PASS
BT LE	MCH	3.27	30	PASS
BT LE	HCH	4.13	30	PASS

Test Graphs

LCH



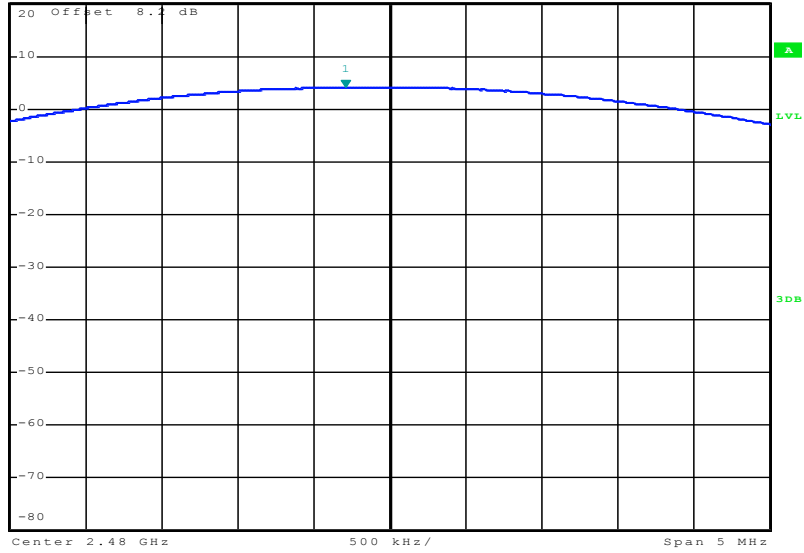
MCH



HCH



Ref 20 dBm Att 30 dB RBW 3 MHz Marker 1 [T1] 4.13 dBm
VBW 10 MHz SWT 40 ms 2.479707500 GHz

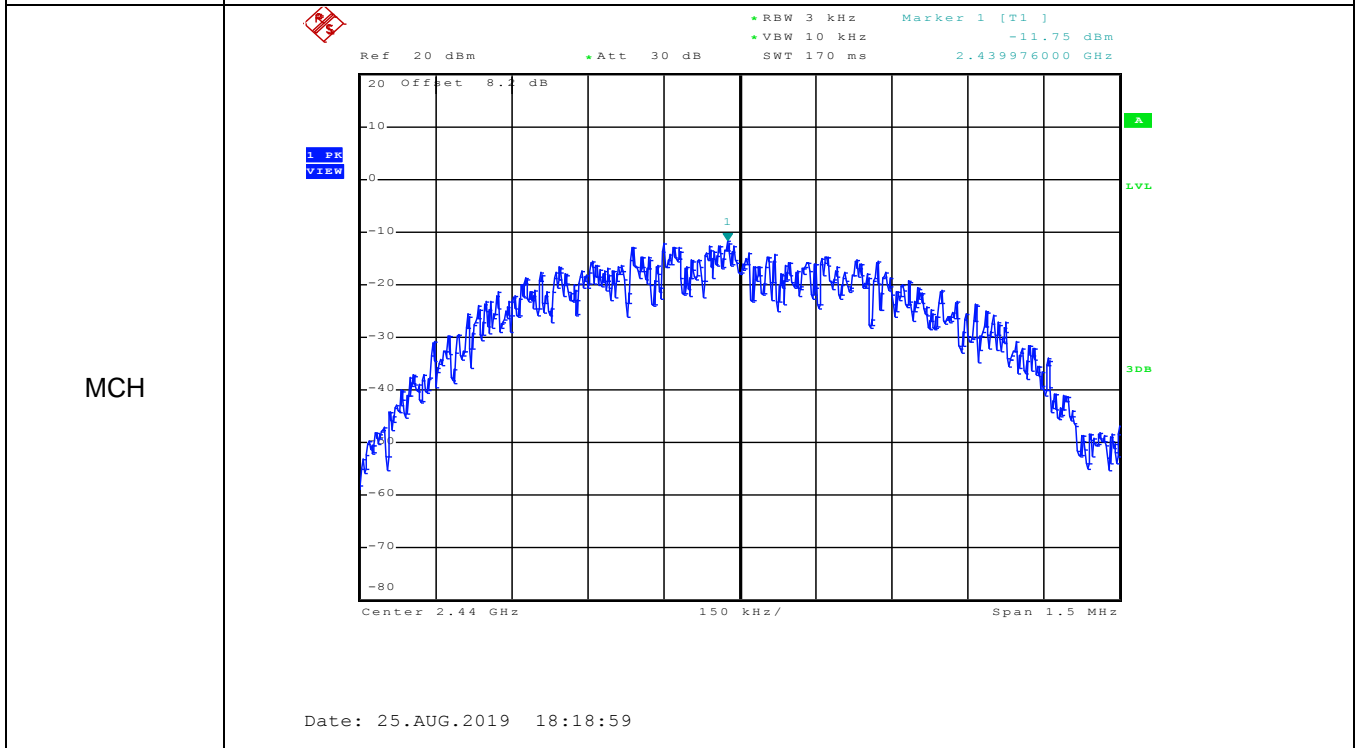
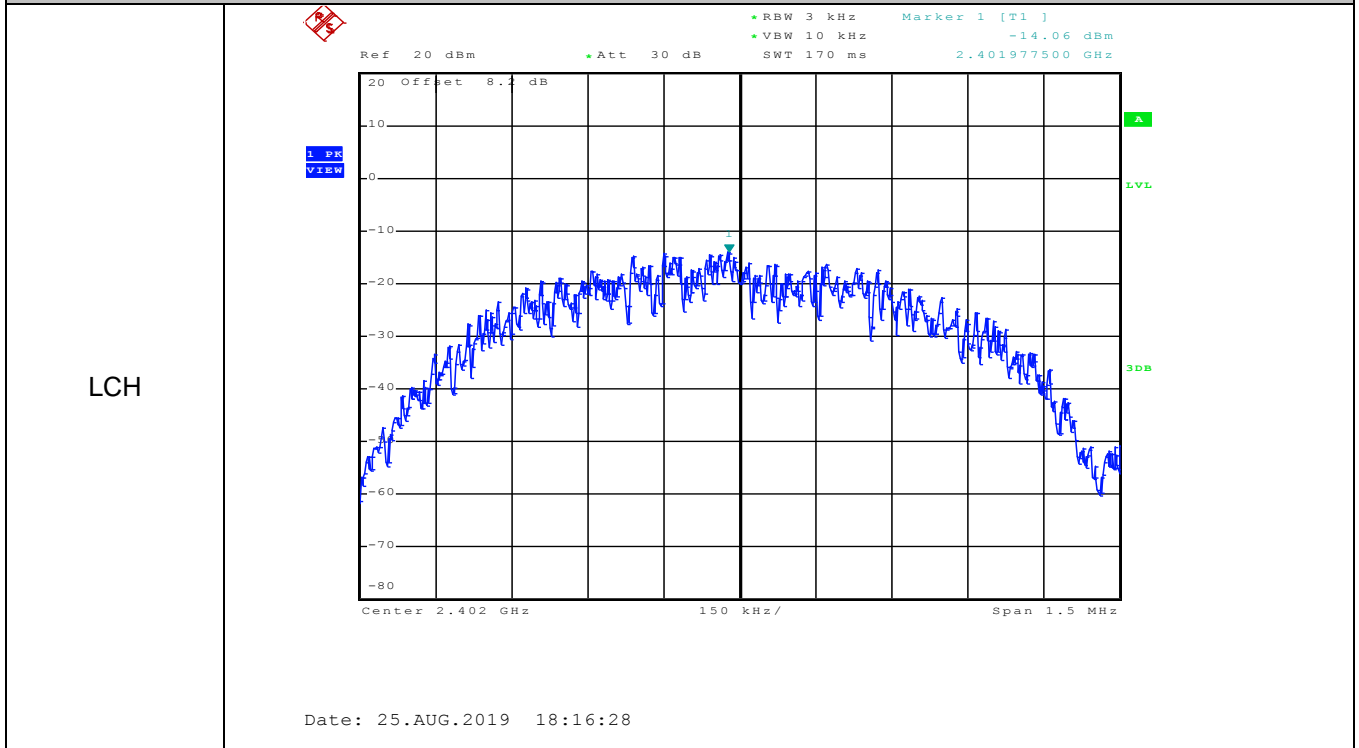


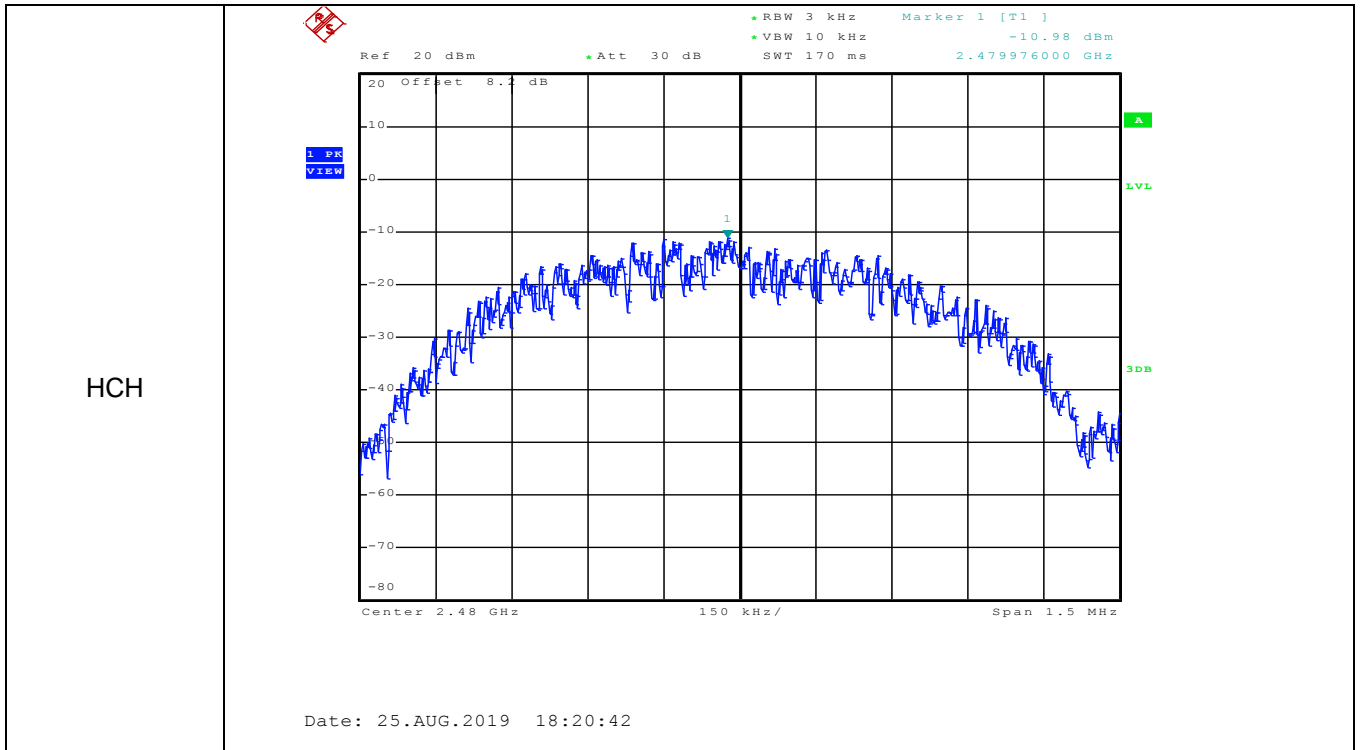
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B.3 Maximum Power Spectral Density

Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-14.060	8	PASS
BT LE	MCH	-11.750	8	PASS
BT LE	HCH	-10.980	8	PASS

Test Graphs



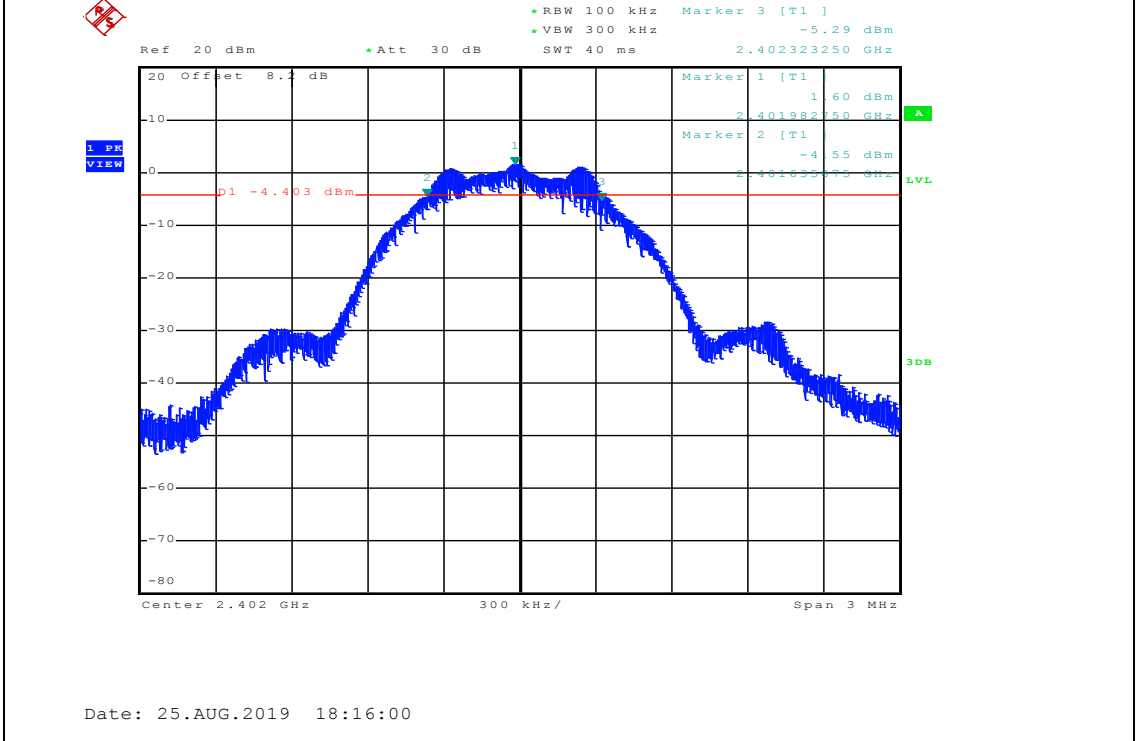


B.4 6dB Bandwidth

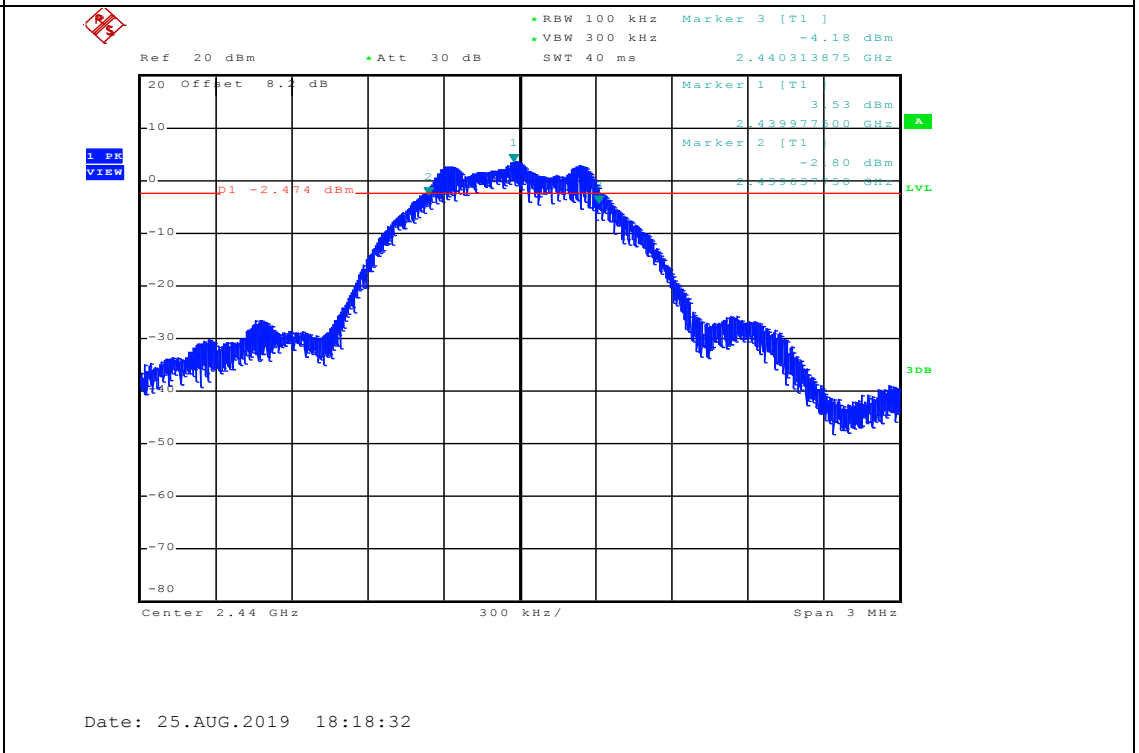
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.687	≥0.5	PASS
BT LE	MCH	0.676	≥0.5	PASS
BT LE	HCH	0.683	≥0.5	PASS

Test Graphs

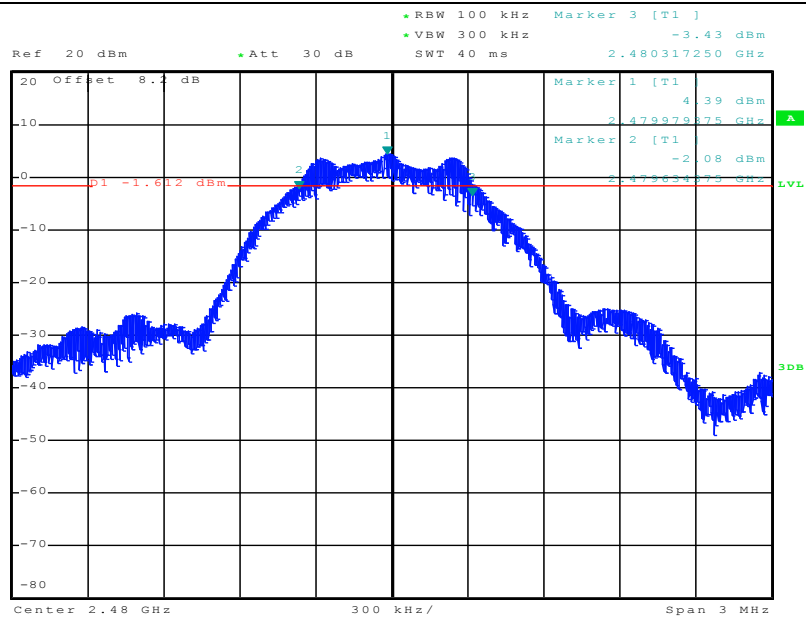
LCH



MCH



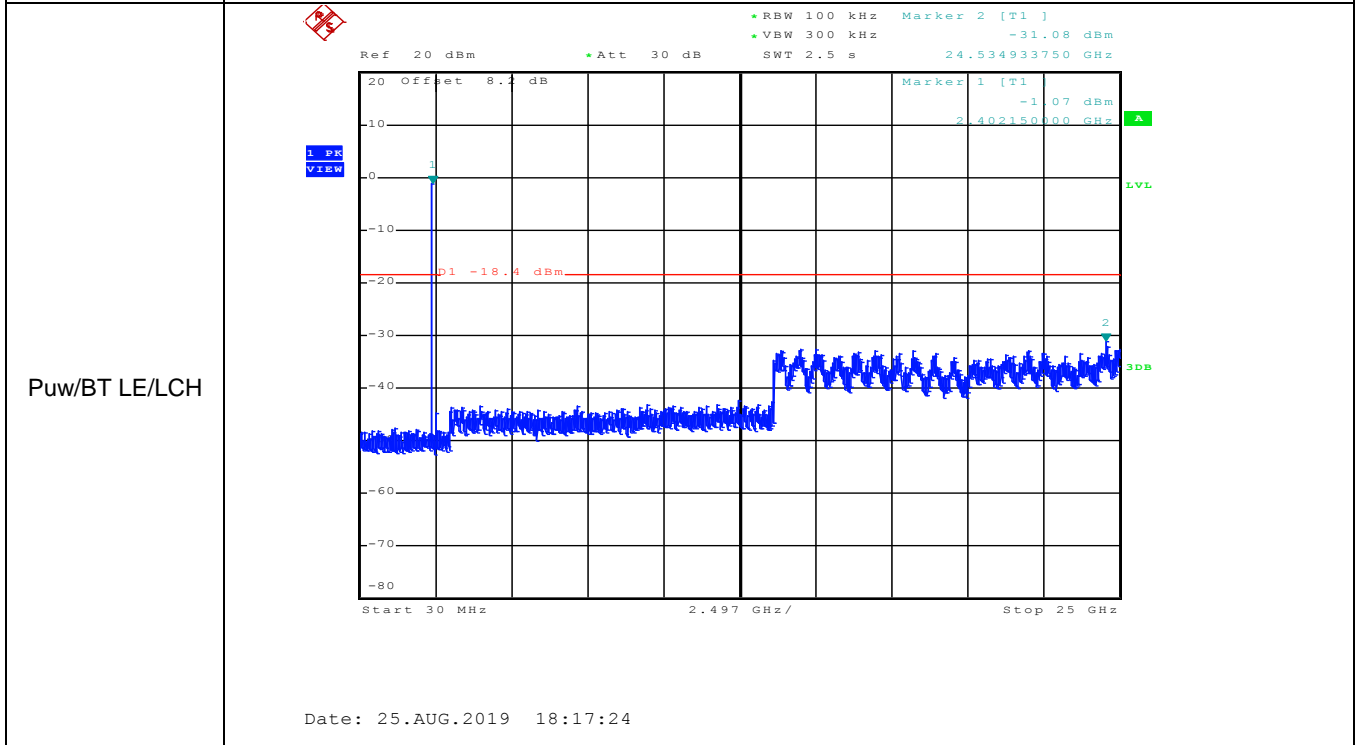
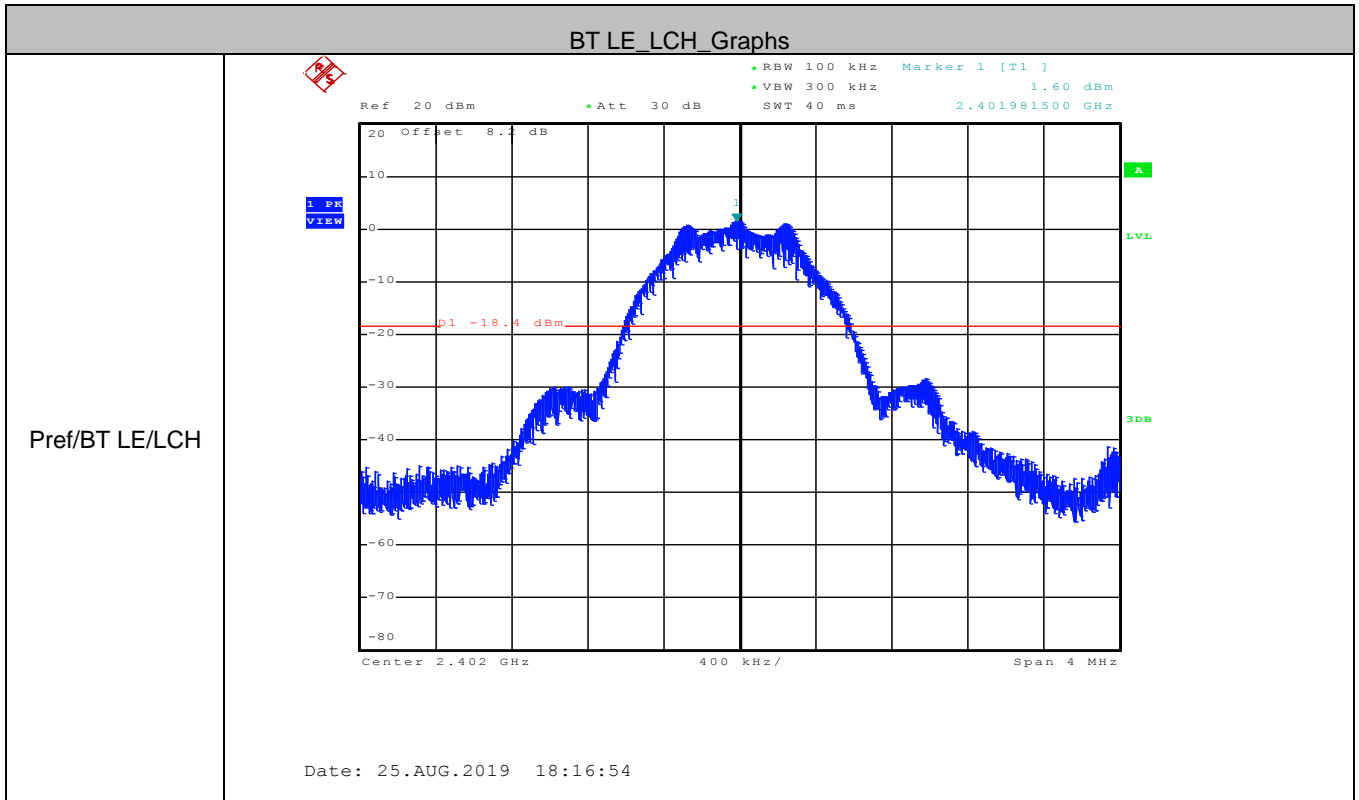
HCH



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B.5 RF Conducted Spurious Emissions

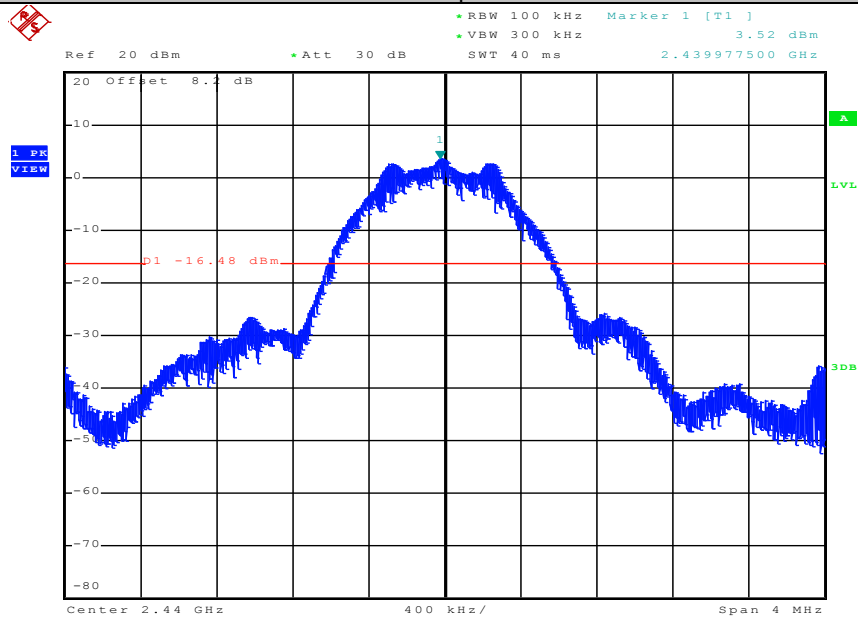
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.6	-31.080	-18.400	PASS
BT LE	MCH	3.52	-31.540	-16.480	PASS
BT LE	HCH	4.38	-31.420	-15.620	PASS



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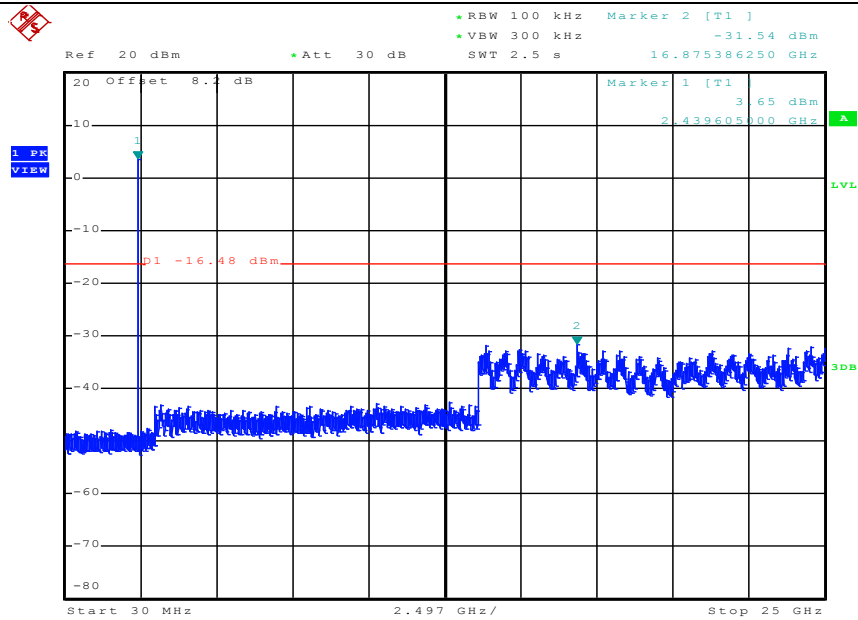
BT LE_MCH_Graphs

Pref/BT LE/MCH



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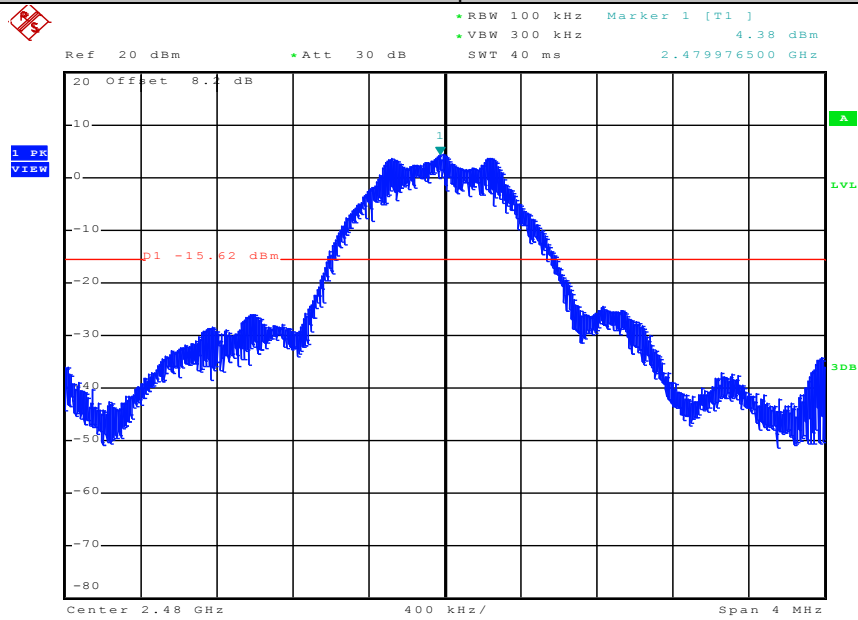
Puw/BT LE/MCH



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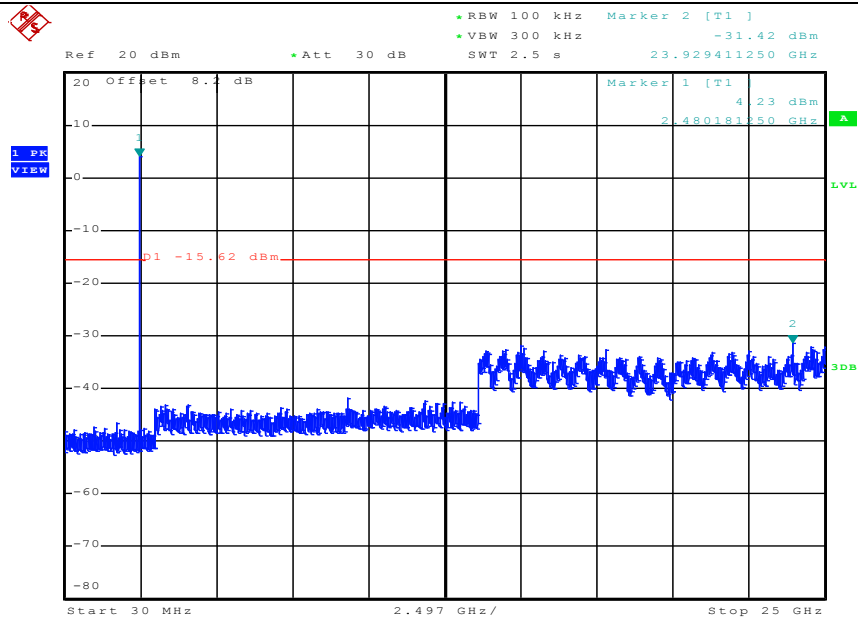
BT LE_HCH_Graphs

Pref/BT LE/HCH



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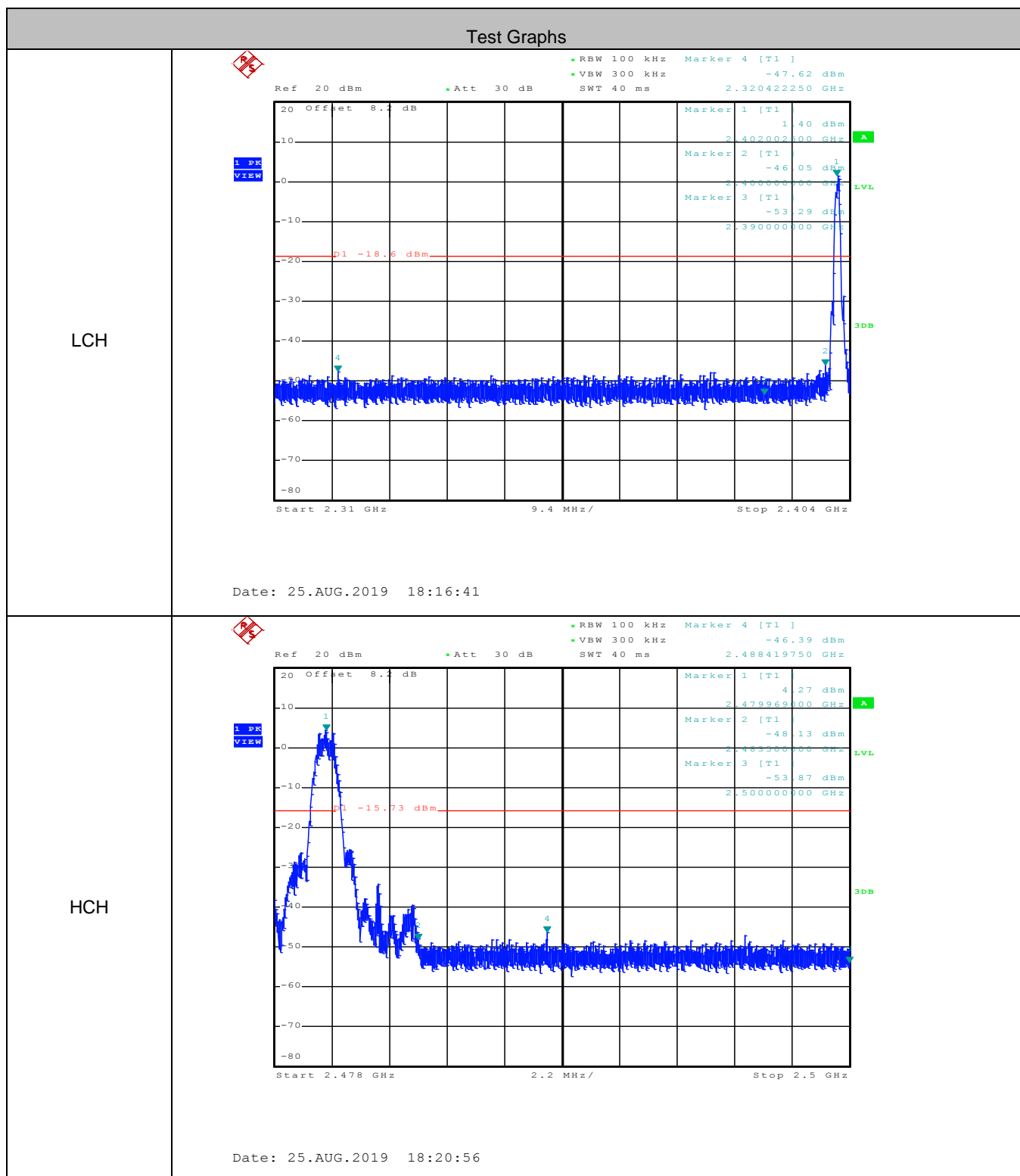
Puw/BT LE/HCH



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B.6 Band-edge for RF Conducted Emissions

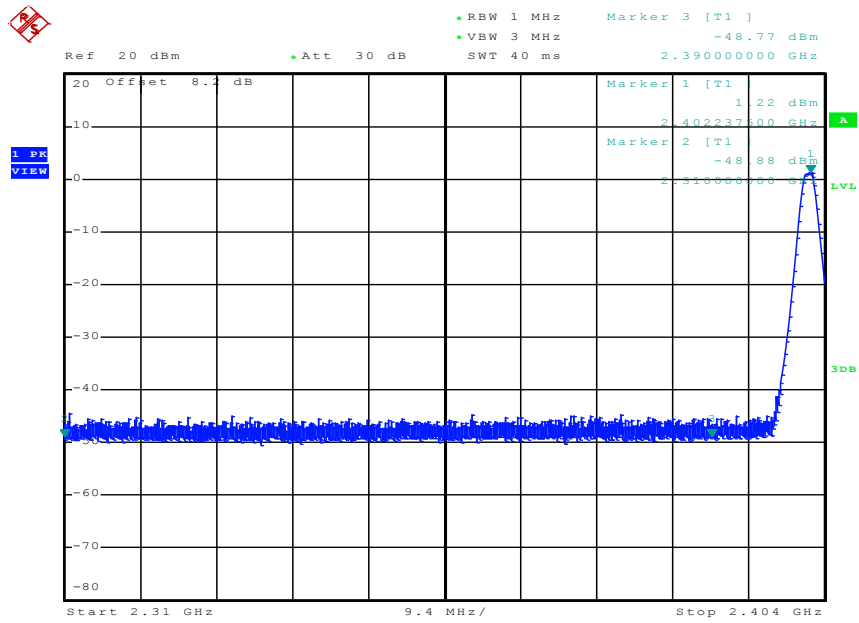
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	1.400	-47.617	-18.6	PASS
BT LE	HCH	4.270	-46.394	-15.73	PASS



B.7 Restrict-band band-edge measurements

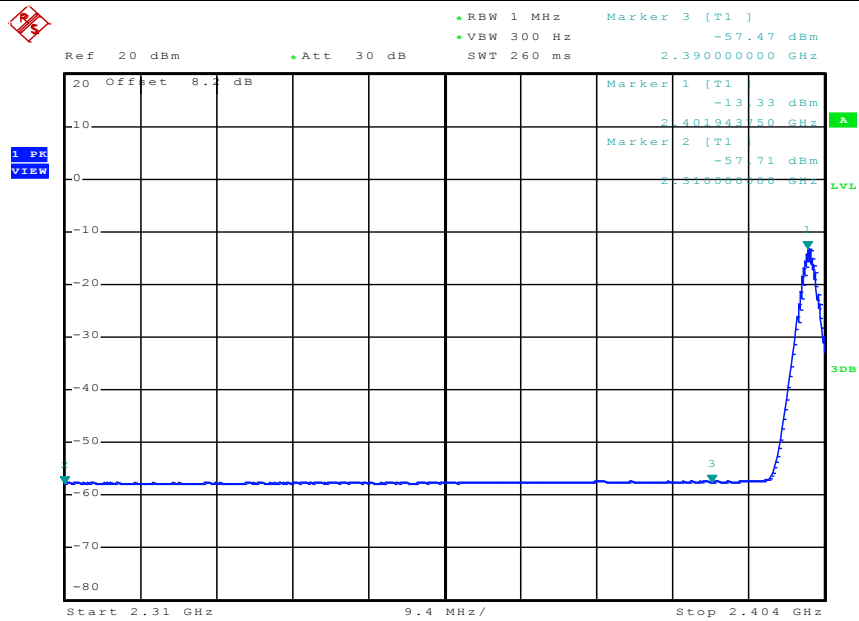
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-48.88	2.0	0	48.38	PEAK	74	PASS
		Ant1	2310.0	-57.71	2.0	0	39.55	AV	54	PASS
		Ant1	2390.0	-48.77	2.0	0	48.49	PEAK	74	PASS
		Ant1	2390.0	-57.47	2.0	0	39.79	AV	54	PASS
	2480	Ant1	2483.5	-32.25	2.0	0	65.01	PEAK	74	PASS
		Ant1	2483.5	-44.17	2.0	0	53.09	AV	54	PASS
		Ant1	2500.0	-48.04	2.0	0	49.22	PEAK	74	PASS
		Ant1	2500.0	-57.94	2.0	0	39.32	AV	54	PASS

Restrict-band band-edge measurements_BT LE_2402_Ant1_PEAK



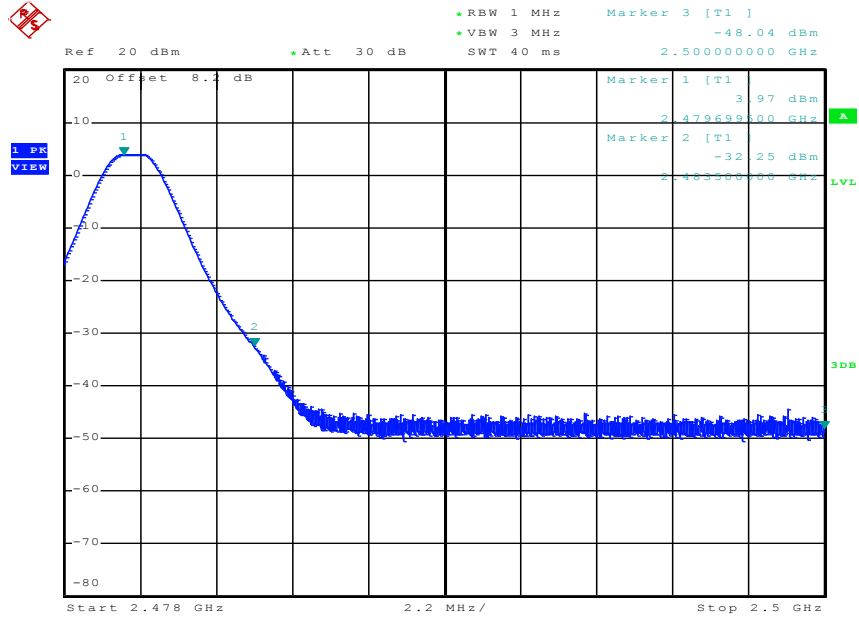
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Restrict-band band-edge measurements_BT LE_2402_Ant1_AV



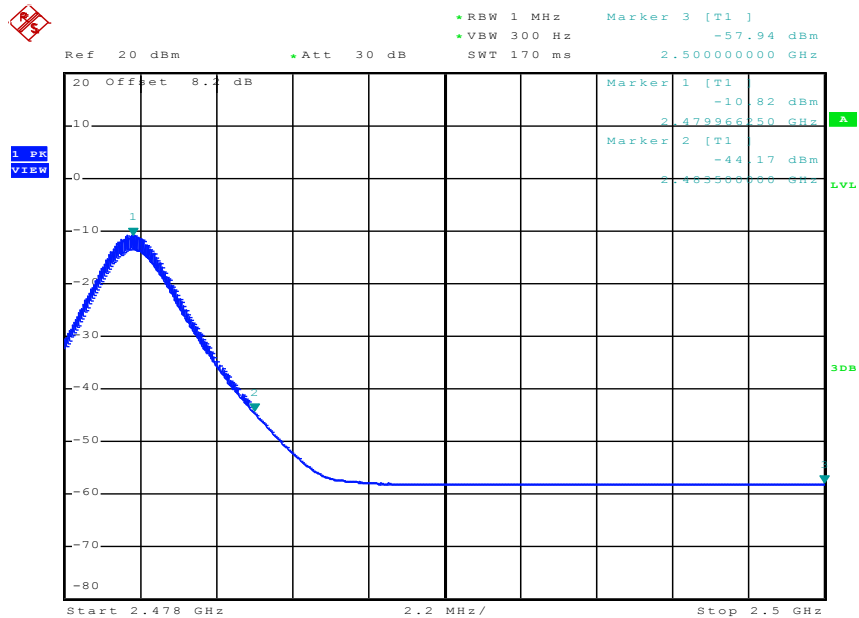
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Restrict-band band-edge measurements_BT LE_2480_Ant1_PEAK



Date: 25.AUG.2019 18:21:58

Restrict-band band-edge measurements_BT LE_2480_Ant1_AV



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