

## Appendix B

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

Product Name: Music hat

Trade Mark: N/A

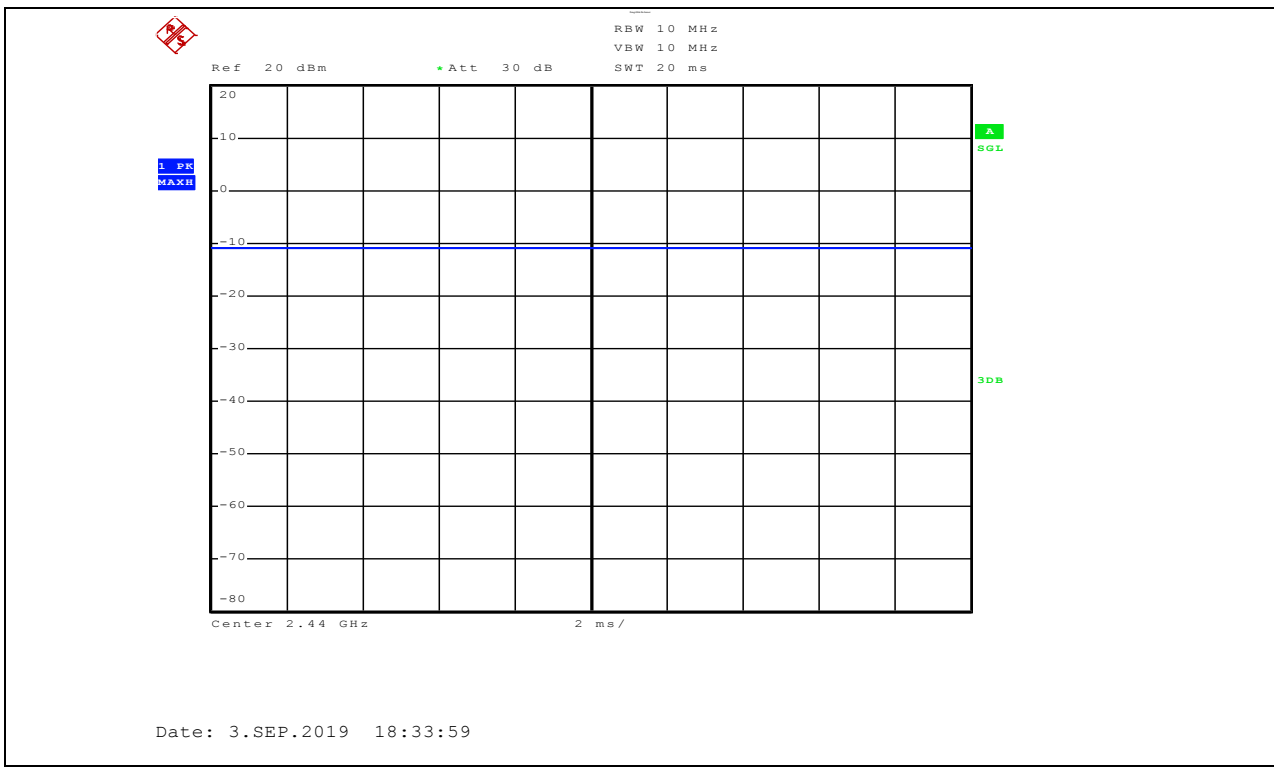
Test Model: Music hat 1902

#### Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	53.6%
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

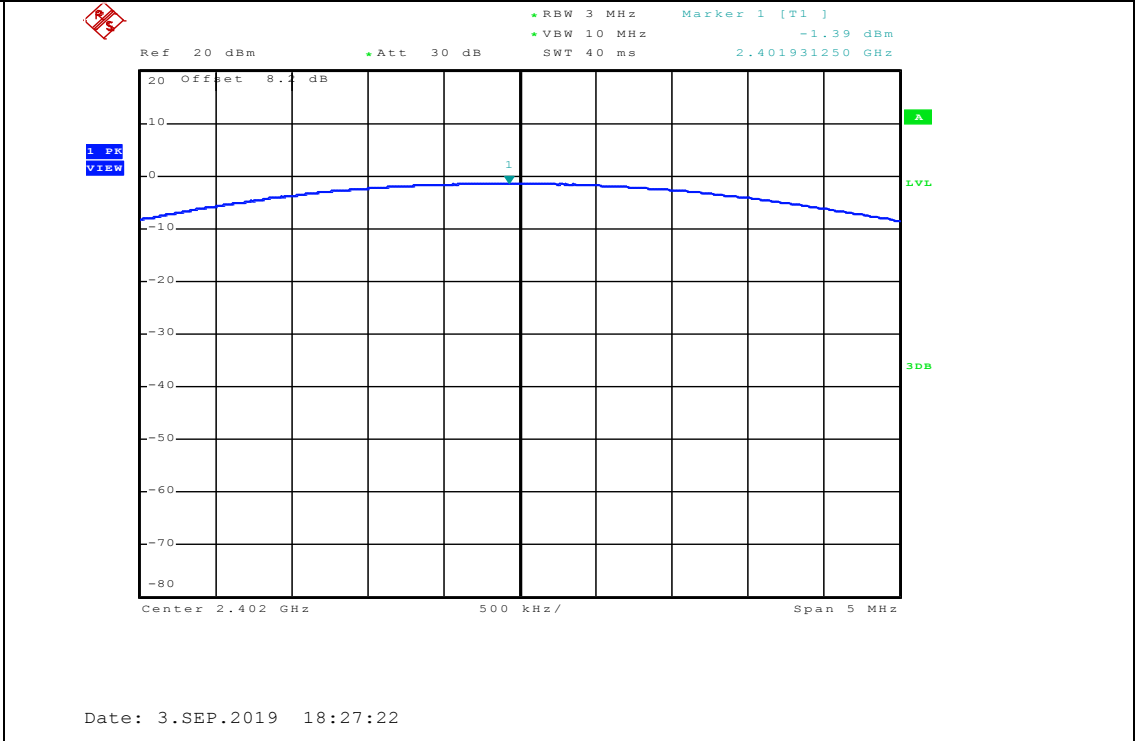


### B.2 Maximum Conducted Peak Output Power

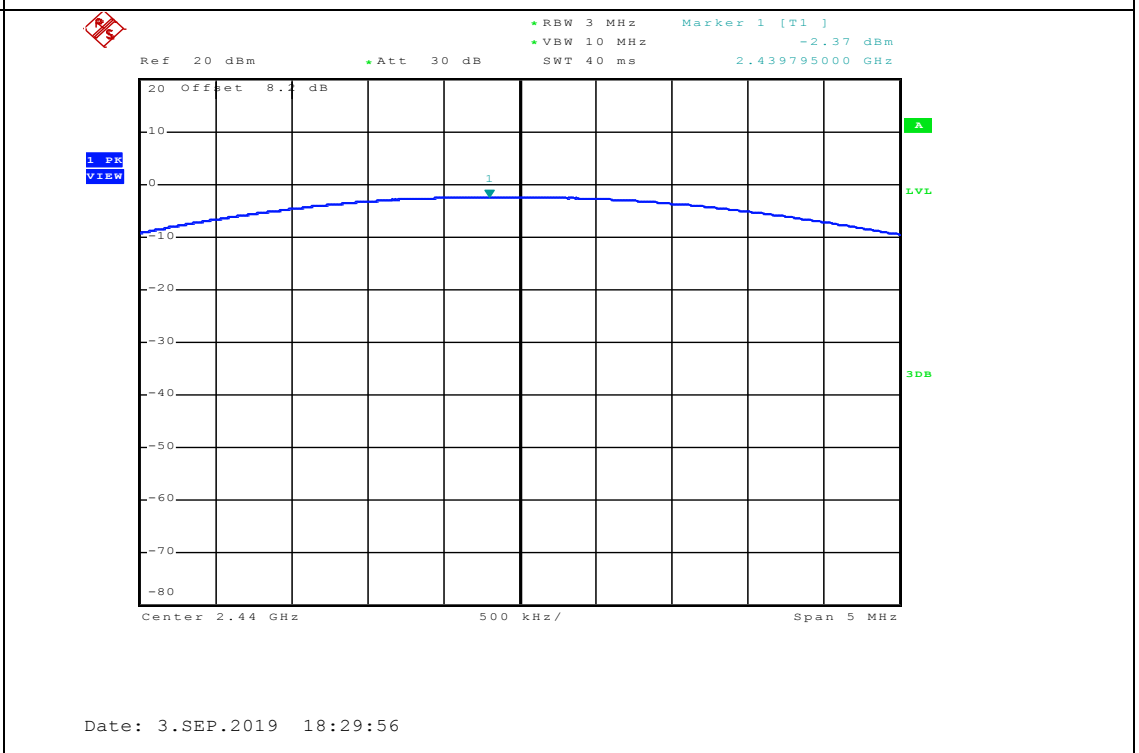
Mode	Channel	Conduct Peak Power[dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.39	30	PASS
BT LE	MCH	-2.37	30	PASS
BT LE	HCH	-4.02	30	PASS

#### Test Graphs

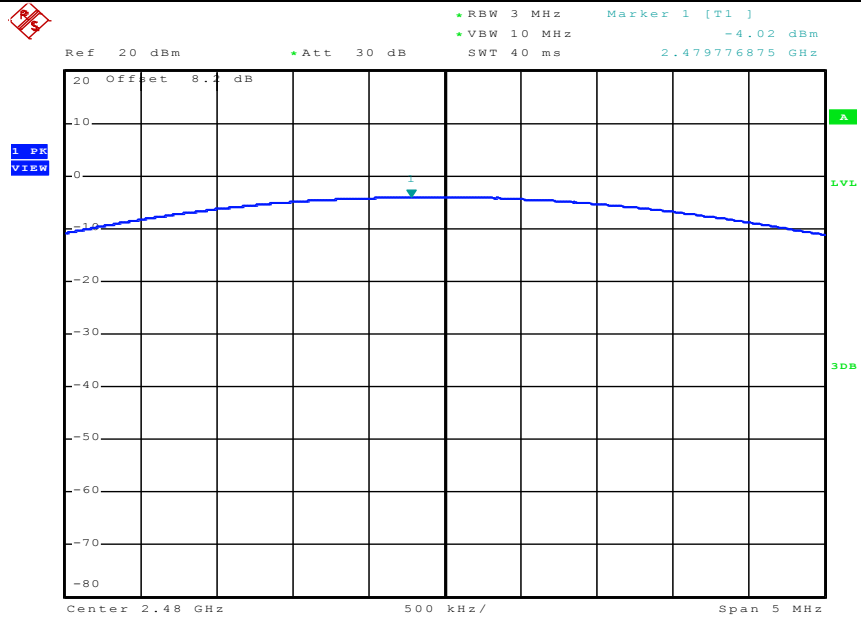
LCH



MCH



HCH



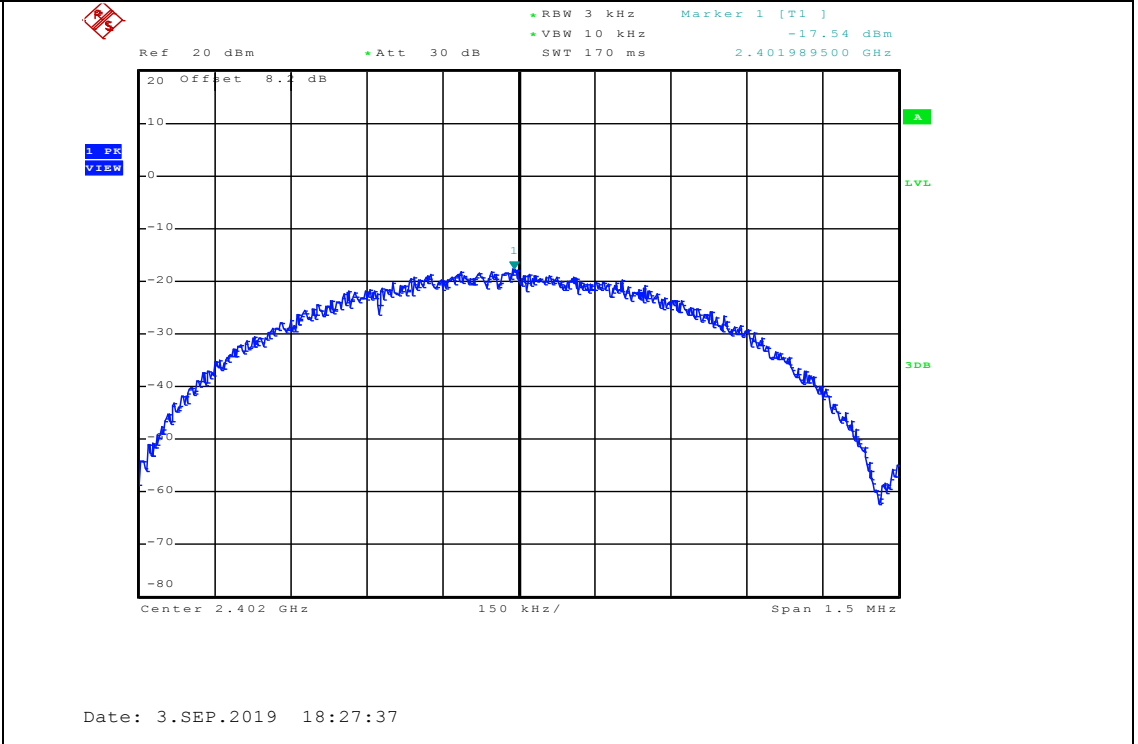
Date: 3.SEP.2019 18:31:49

### B.3 Maximum Power Spectral Density

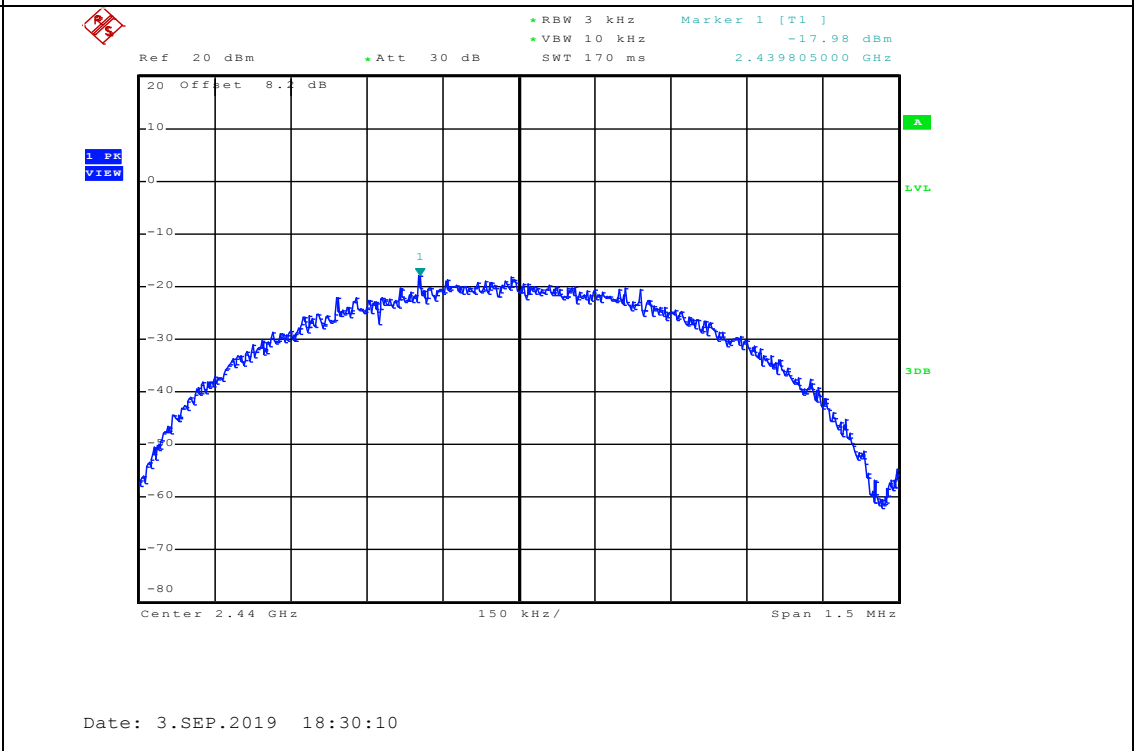
Mode	Channel	PSD [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
BT LE	LCH	-17.540	8	PASS
BT LE	MCH	-17.980	8	PASS
BT LE	HCH	-19.900	8	PASS

#### Test Graphs

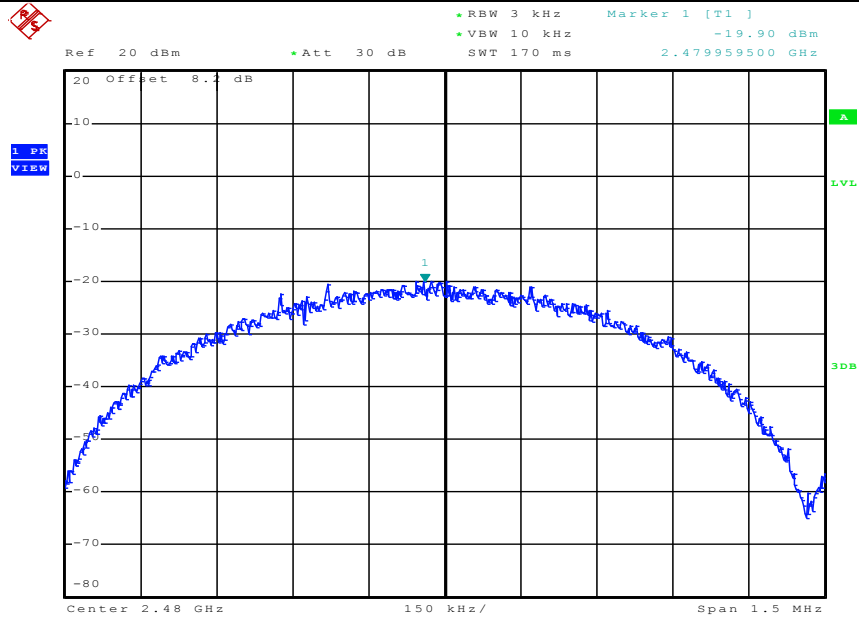
LCH



MCH



HCH



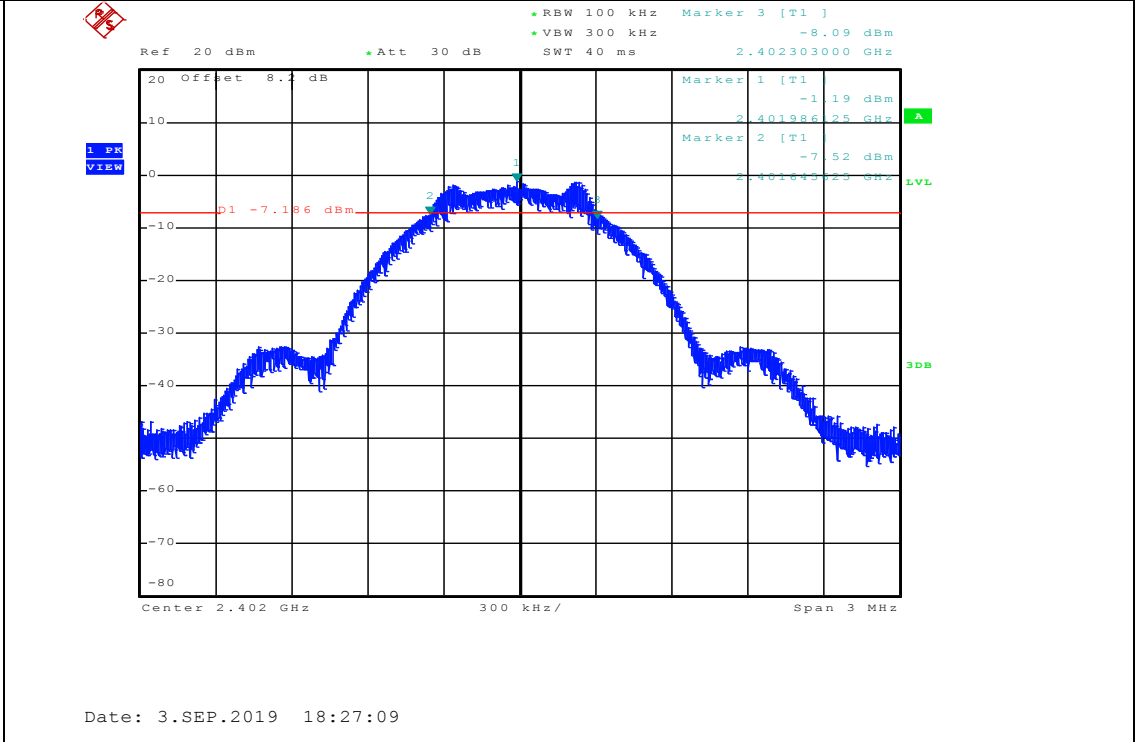
Date: 3.SEP.2019 18:32:03

**B.4 6dB Bandwidth**

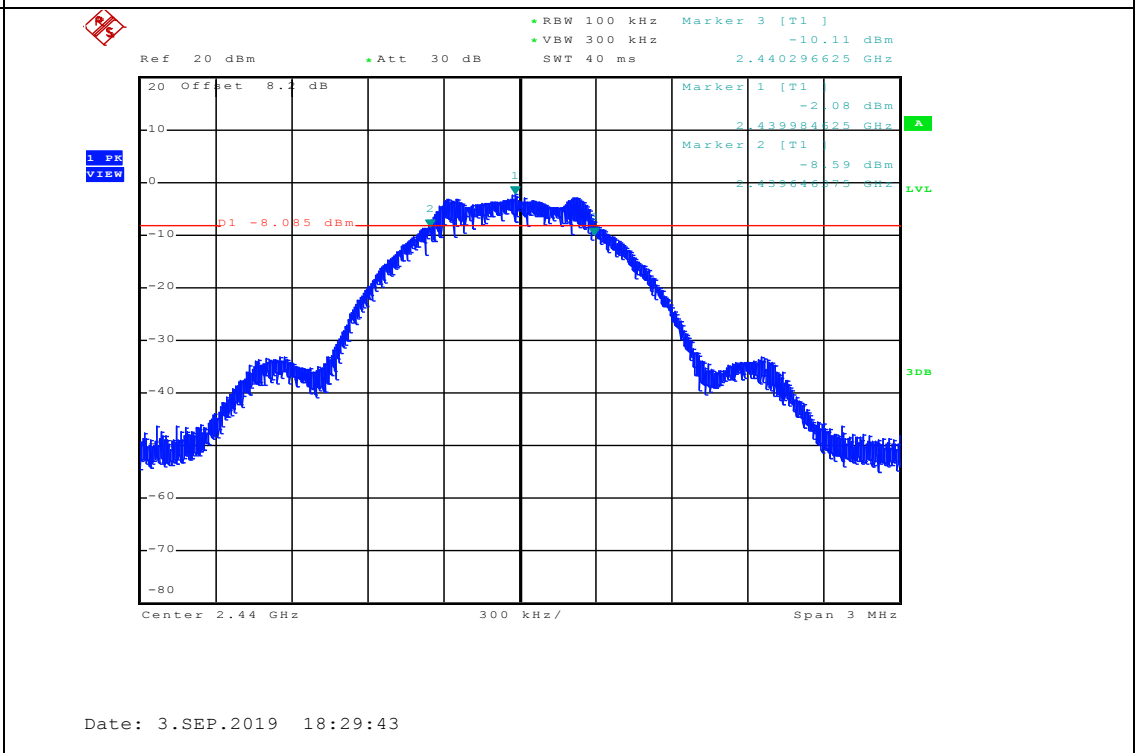
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
BT LE	LCH	0.657	≥0.5	PASS
BT LE	MCH	0.650	≥0.5	PASS
BT LE	HCH	0.650	≥0.5	PASS

**Test Graphs**

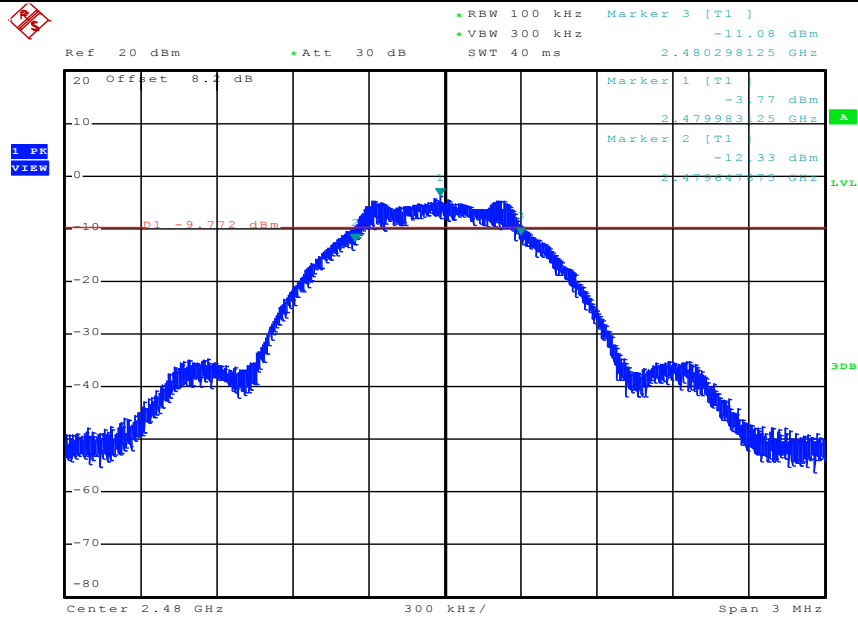
LCH



MCH



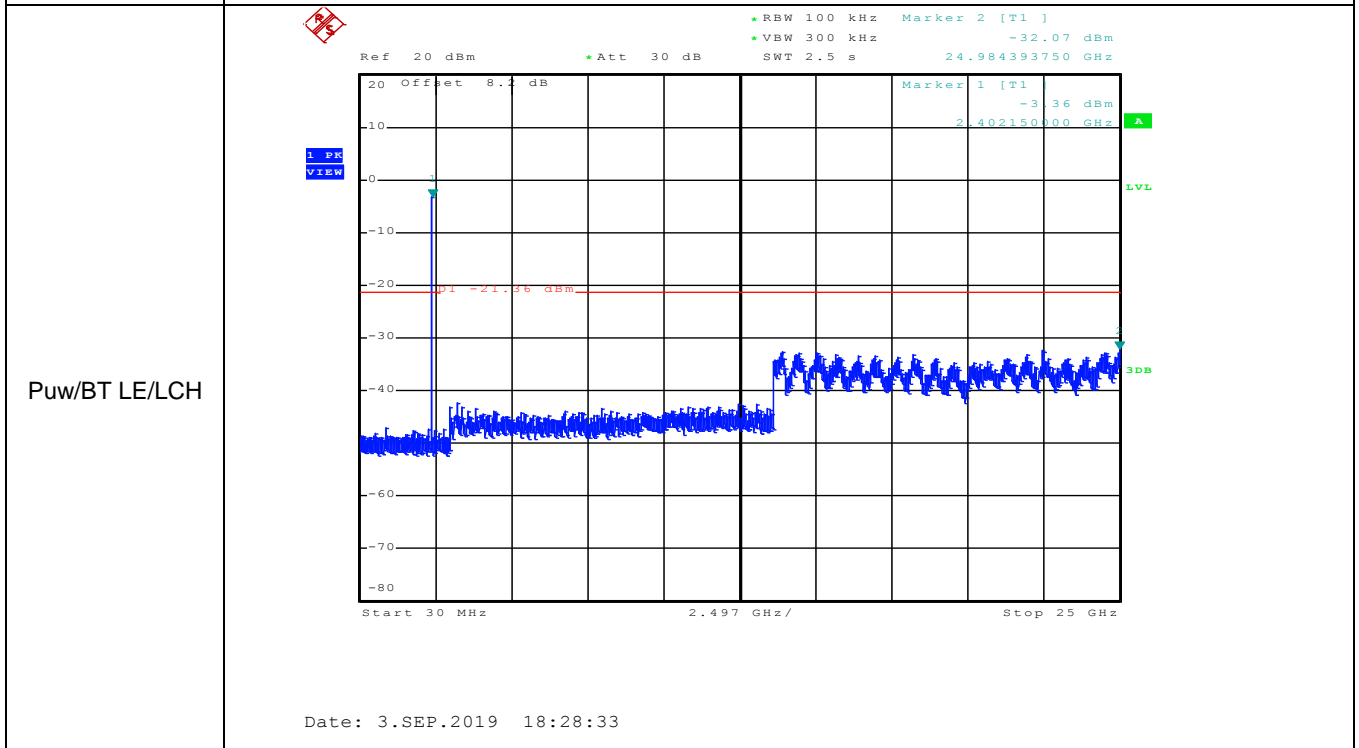
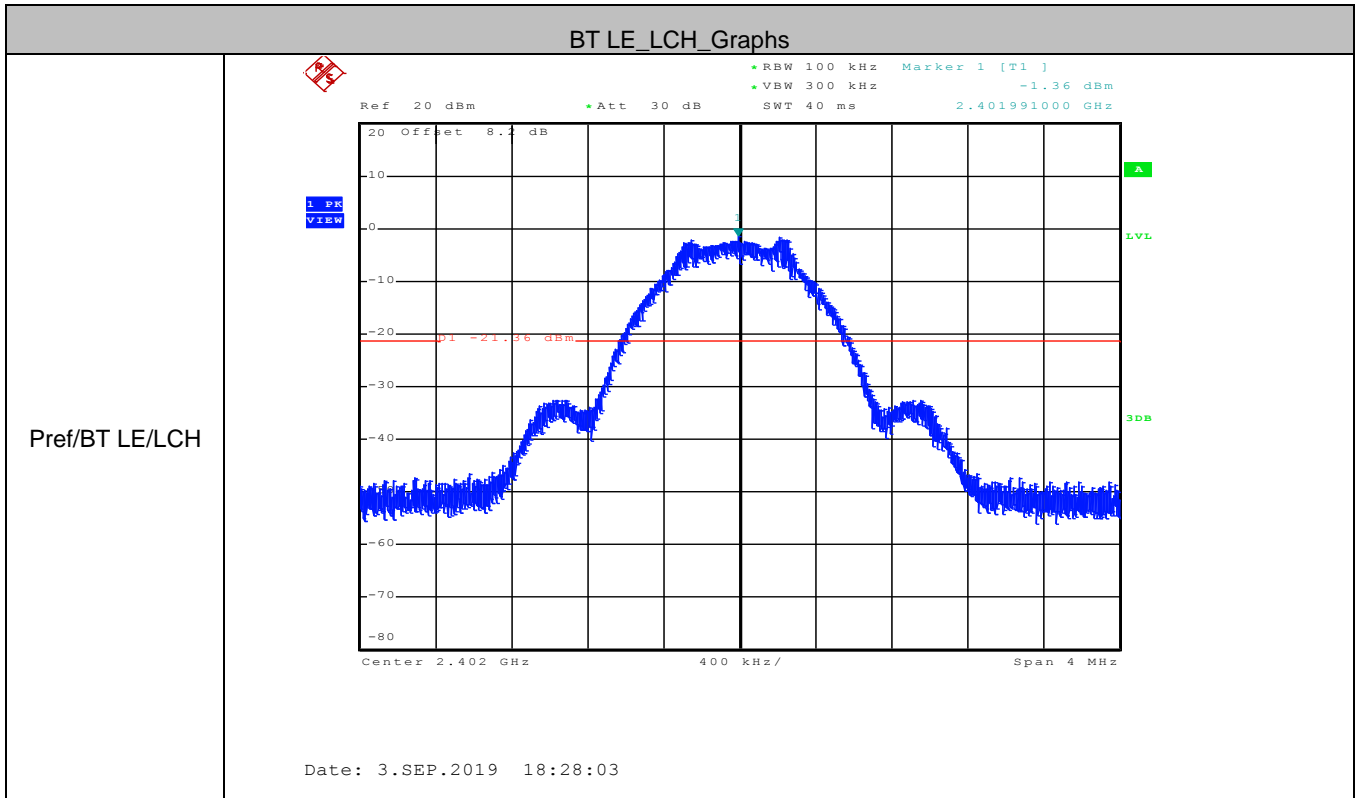
HCH



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### B.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-1.36	-32.070	-21.360	PASS
BT LE	MCH	-2.12	-31.290	-22.120	PASS
BT LE	HCH	-3.78	-31.740	-23.780	PASS

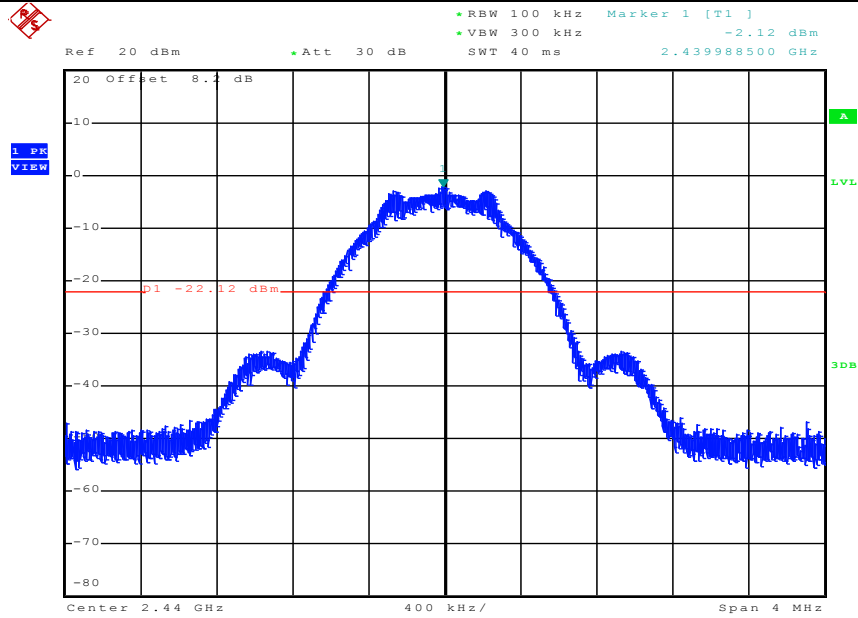




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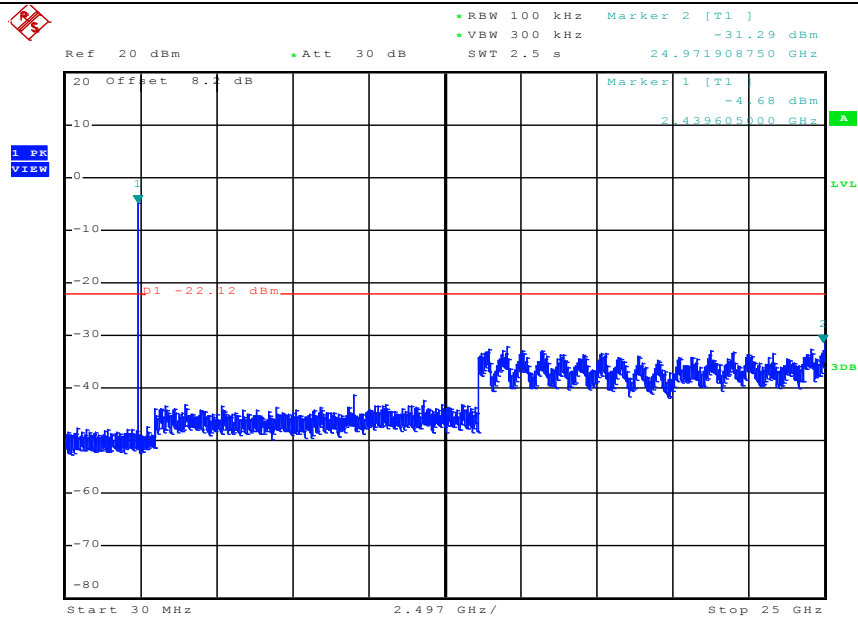
BT LE\_MCH\_Graphs

Pref/BT LE/MCH



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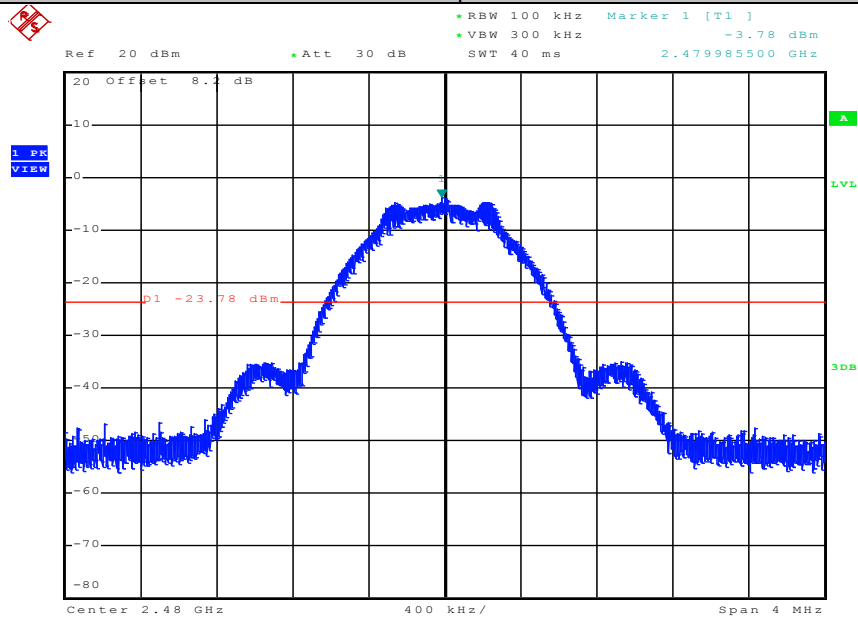
Puw/BT LE/MCH



Date: 3.SEP.2019 18:30:53

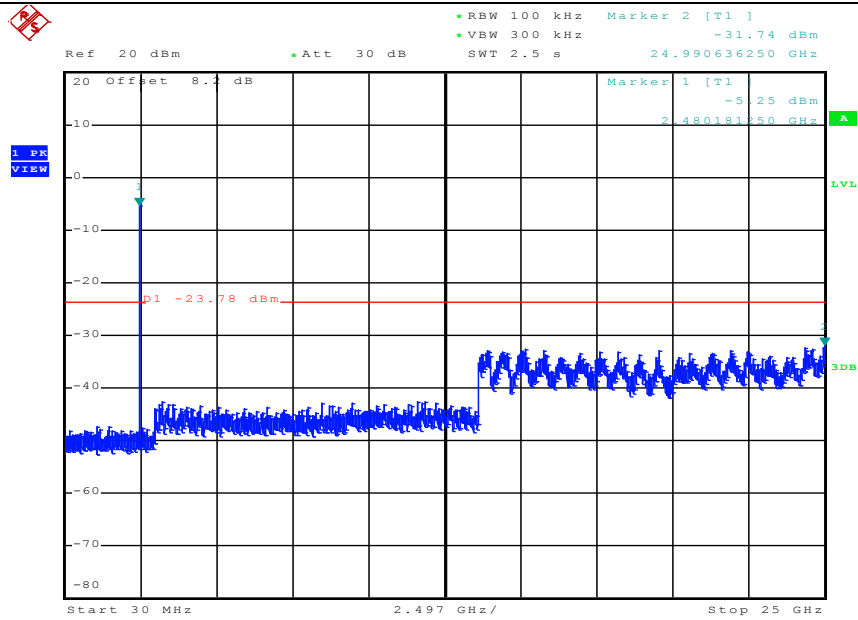
### BT LE\_HCH\_Graphs

Pref/BT LE/HCH



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Puw/BT LE/HCH



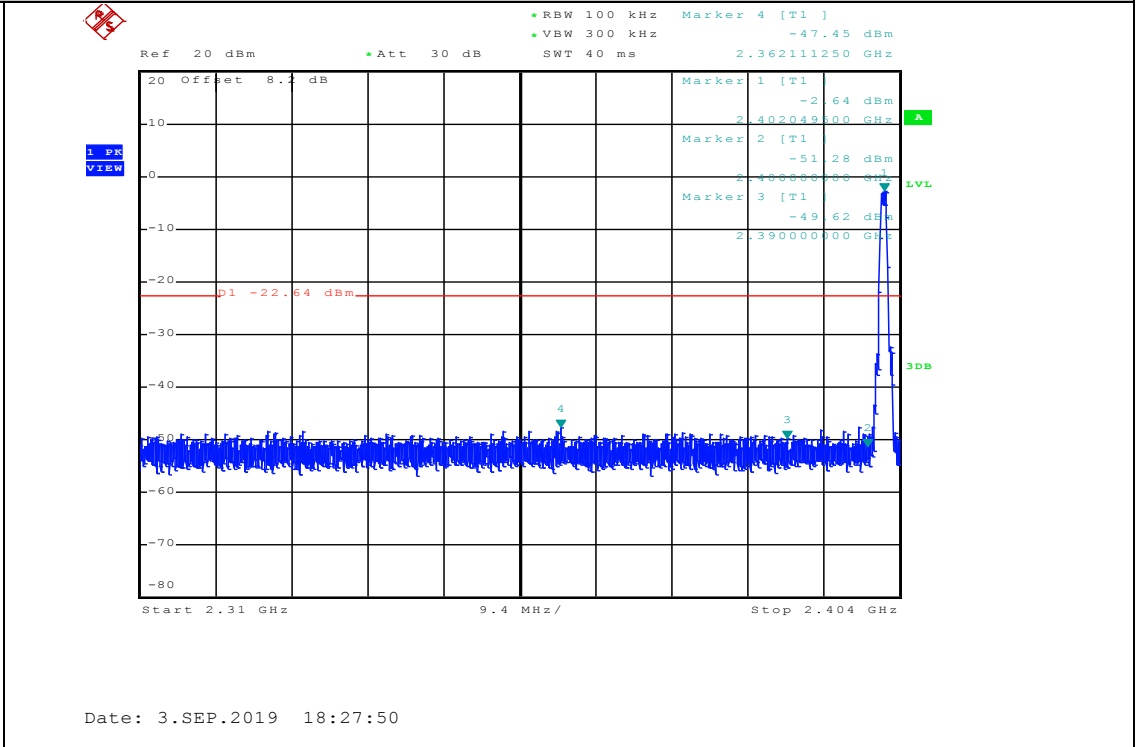
Date: 3.SEP.2019 18:33:01

**B.6 Band-edge for RF Conducted Emissions**

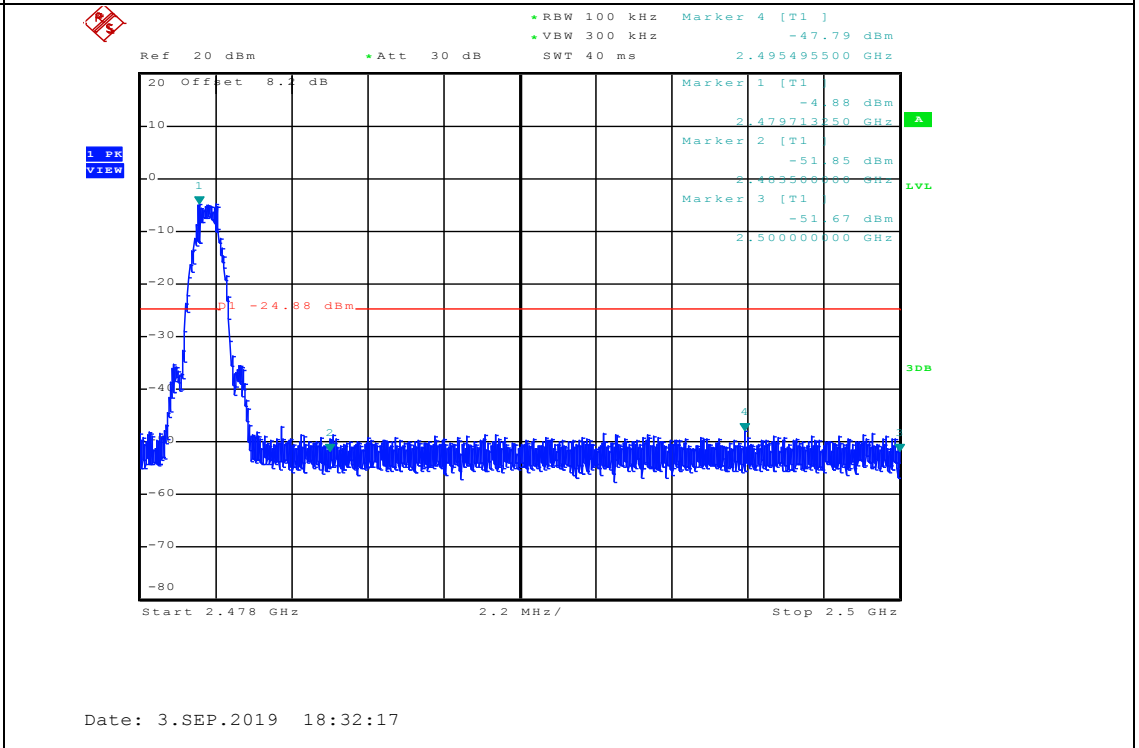
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BT LE	LCH	-2.640	-47.455	-22.64	PASS
BT LE	HCH	-4.880	-47.792	-24.88	PASS

**Test Graphs**

LCH



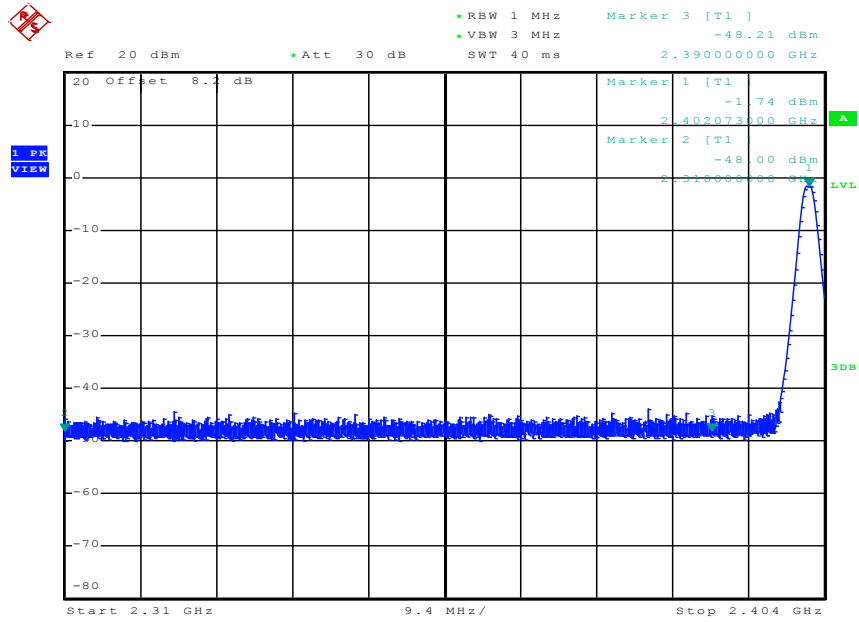
HCH



## B.7 Restrict-band band-edge measurements

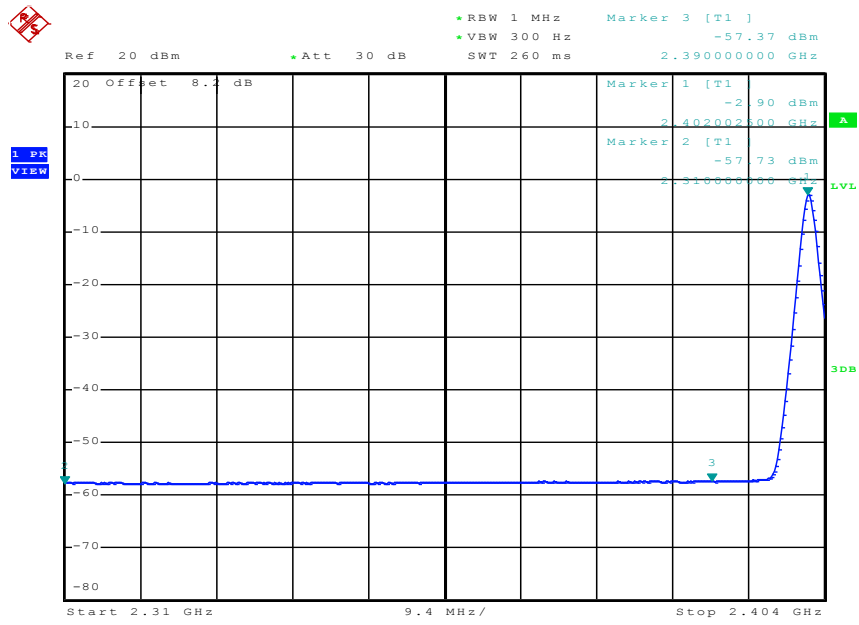
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdi
BT LE	2402	Ant1	2310.0	-48.00	2.0	0	49.26	PEAK	74	PASS
		Ant1	2310.0	-57.73	2.0	0	39.53	AV	54	PASS
		Ant1	2390.0	-48.21	2.0	0	49.05	PEAK	74	PASS
		Ant1	2390.0	-57.37	2.0	0	39.89	AV	54	PASS
	2480	Ant1	2483.5	-41.73	2.0	0	55.53	PEAK	74	PASS
		Ant1	2483.5	-47.30	2.0	0	49.96	AV	54	PASS
		Ant1	2500.0	-47.50	2.0	0	49.76	PEAK	74	PASS
		Ant1	2500.0	-58.02	2.0	0	39.24	AV	54	PASS

Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_PEAK



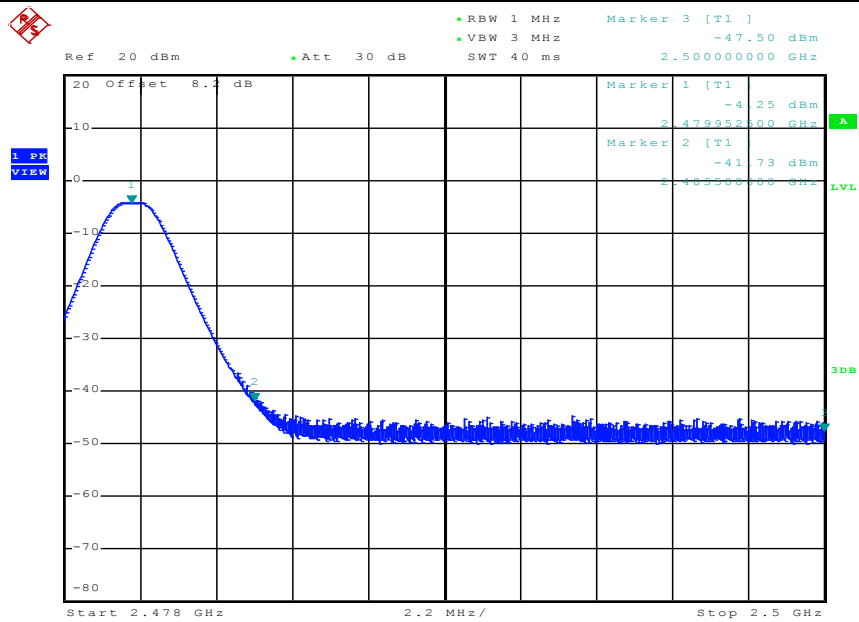
Date: 3.SEP.2019 18:28:53

Restrict-band band-edge measurements\_BT LE\_2402\_Ant1\_AV



Date: 3.SEP.2019 18:29:08

Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_PEAK



Date: 3.SEP.2019 18:33:19

Restrict-band band-edge measurements\_BT LE\_2480\_Ant1\_AV

