

Environmental Conditions

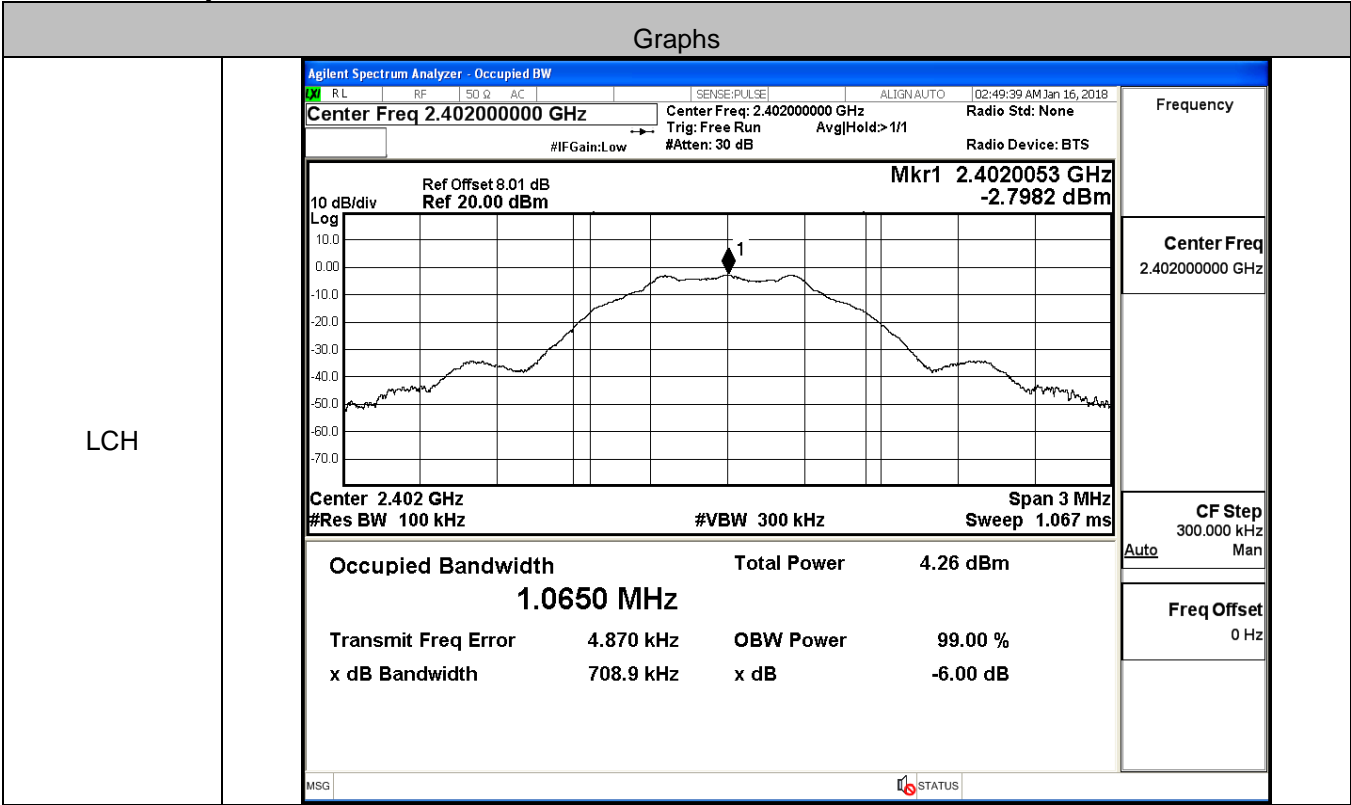
Temperature:	24.6 ° C
Relative Humidity:	48%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.xu
Supervised by:	Tom.Liu

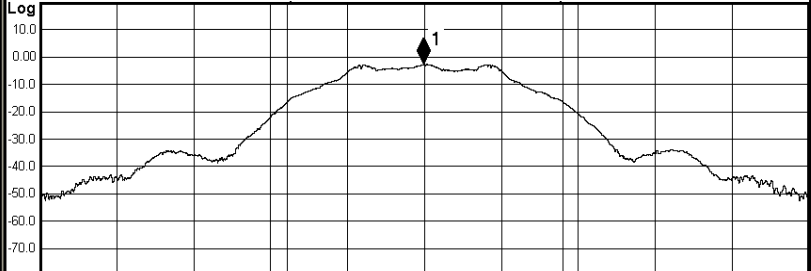
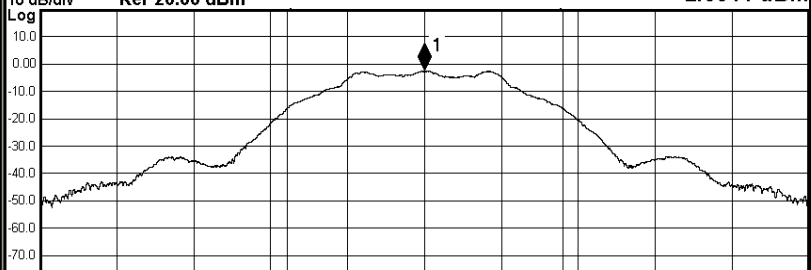
Section A): 6dB Bandwidth

Test Result

Mode	Channel	6dB Bandwidth [MHz]	Verdict
BLE	LCH	0.7089	PASS
BLE	MCH	0.6982	PASS
BLE	HCH	0.7008	PASS

Test Graphs



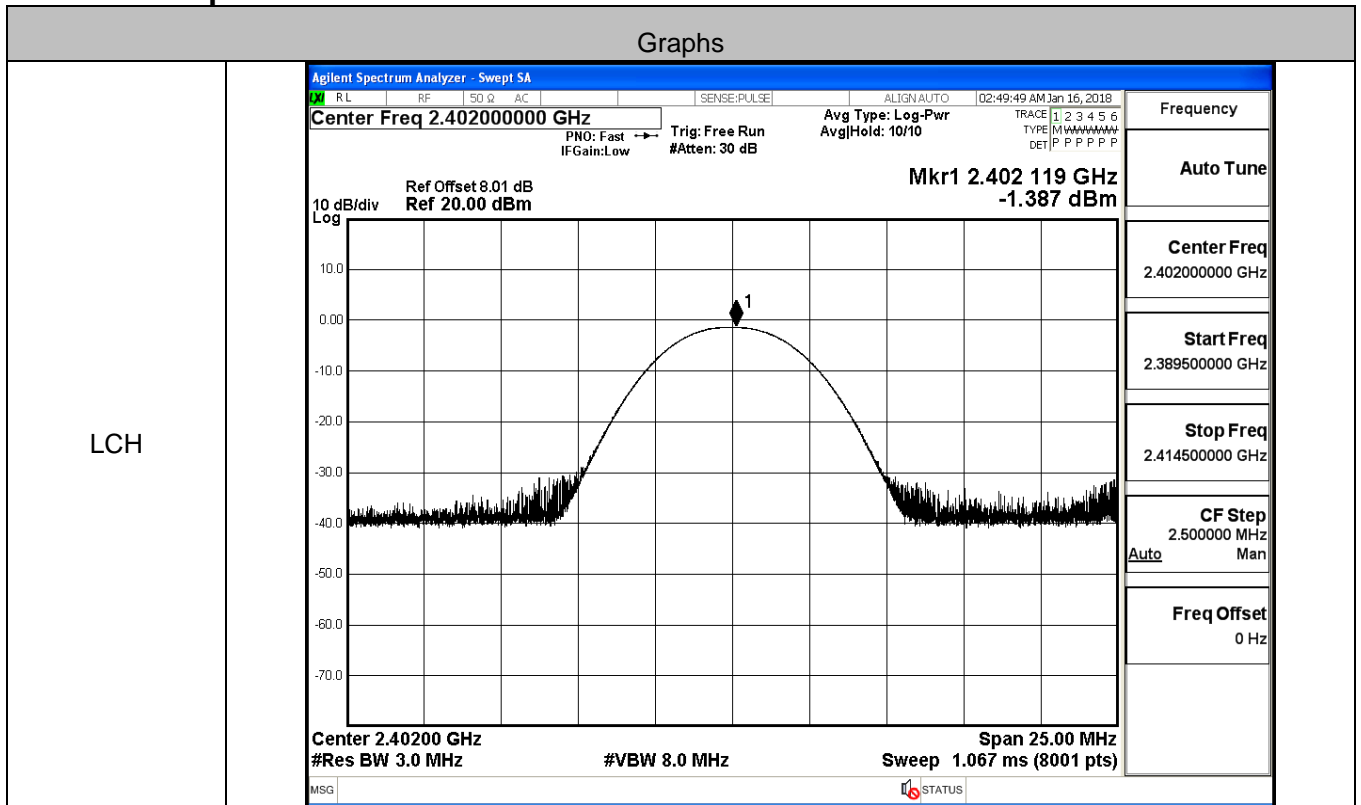
<div>MCH</div>	<div><div>Agilent Spectrum Analyzer - Occupied BW</div><div><div>RLRF50 ΩACSENSE:PULSEALIGN: AUTO02:51:55 AM Jan 16, 2018</div><div>Center Freq 2.440000000 GHz</div><div>Center Freq: 2.440000000 GHz</div><div>Trig: Free Run</div><div>Avg/Hold: 1/1</div><div>Radio Std: None</div><div>#IFGain:Low</div><div>#Atten: 30 dB</div><div>Radio Device: BTS</div></div><div><div>Ref Offset 8.01 dB</div><div>Mkr1 2.4399974 GHz</div><div>Ref 20.00 dBm</div><div>-2.6844 dBm</div></div><div><div>10 dB/div</div><div>Log</div><div></div></div><div><div>Center 2.44 GHz</div><div>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Span 3 MHz</div><div>Sweep 1.067 ms</div></div><div><div>Occupied Bandwidth</div><div>Total Power</div><div>4.34 dBm</div><div>1.0653 MHz</div></div><div><div>Transmit Freq Error</div><div>5.106 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>698.2 kHz</div><div>x dB</div><div>-6.00 dB</div></div><div><div>MSG</div><div>STATUS</div></div></div> <div><div>Frequency</div><div>Center Freq</div><div>2.440000000 GHz</div><div>CF Step</div><div>300.000 kHz</div><div>Man</div><div>Auto</div><div>Freq Offset</div><div>0 Hz</div></div>
<div>HCH</div>	<div><div>Agilent Spectrum Analyzer - Occupied BW</div><div><div>RLRF50 ΩACSENSE:PULSEALIGN: AUTO03:06:16 AM Jan 16, 2018</div><div>Center Freq 2.480000000 GHz</div><div>Center Freq: 2.480000000 GHz</div><div>Trig: Free Run</div><div>Avg/Hold: 1/1</div><div>Radio Std: None</div><div>#IFGain:Low</div><div>#Atten: 30 dB</div><div>Radio Device: BTS</div></div><div><div>Ref Offset 8.01 dB</div><div>Mkr1 2.4799993 GHz</div><div>Ref 20.00 dBm</div><div>-2.5044 dBm</div></div><div><div>10 dB/div</div><div>Log</div><div></div></div><div><div>Center 2.48 GHz</div><div>#Res BW 100 kHz</div><div>#VBW 300 kHz</div><div>Span 3 MHz</div><div>Sweep 1.067 ms</div></div><div><div>Occupied Bandwidth</div><div>Total Power</div><div>4.53 dBm</div><div>1.0648 MHz</div></div><div><div>Transmit Freq Error</div><div>5.271 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>700.8 kHz</div><div>x dB</div><div>-6.00 dB</div></div><div><div>MSG</div><div>STATUS</div></div></div> <div><div>Frequency</div><div>Center Freq</div><div>2.480000000 GHz</div><div>CF Step</div><div>300.000 kHz</div><div>Man</div><div>Auto</div><div>Freq Offset</div><div>0 Hz</div></div>

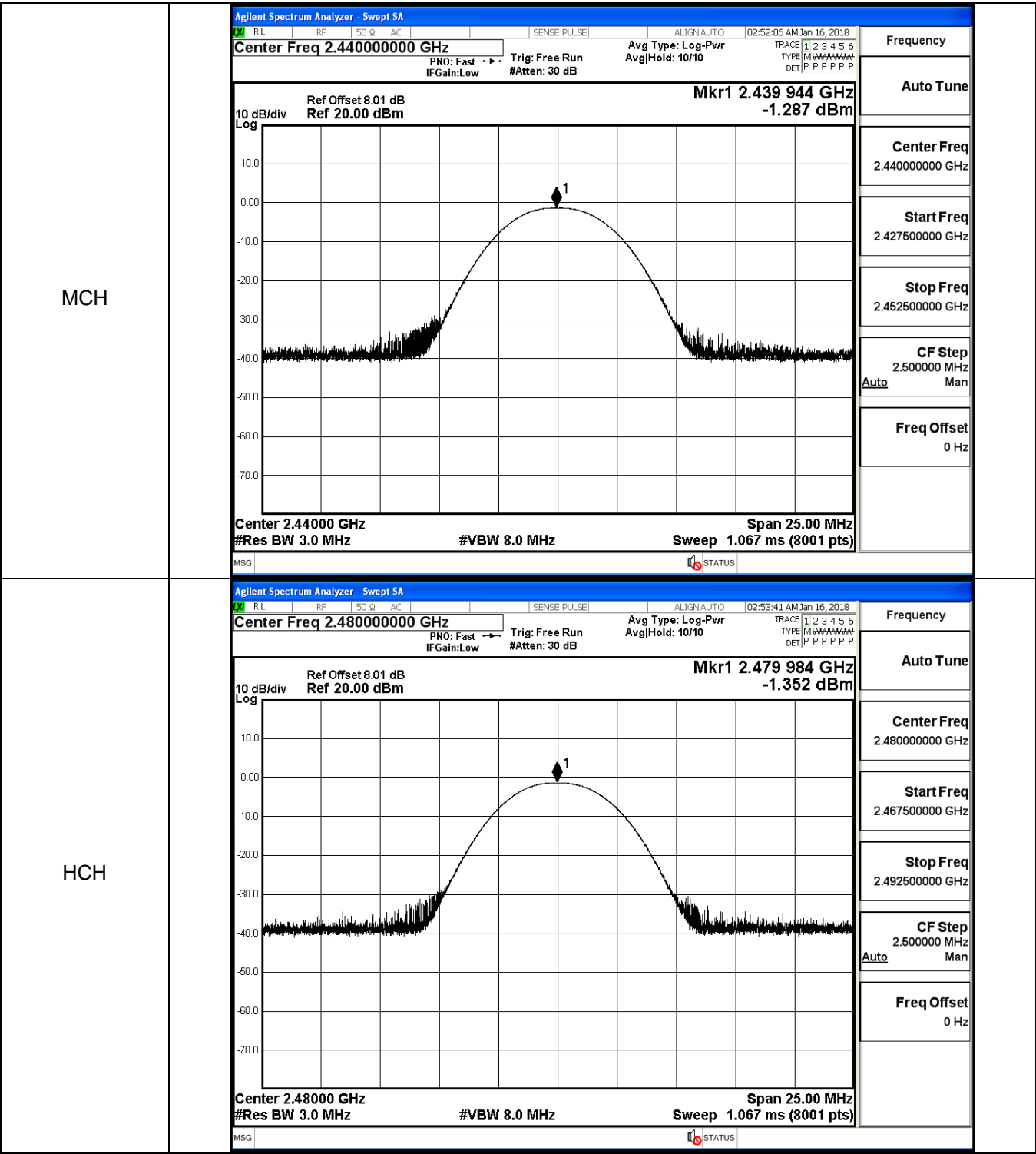
## Section B): Conducted Peak Output Power

## Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	-1.387	PASS
BLE	MCH	-1.287	PASS
BLE	HCH	-1.352	PASS

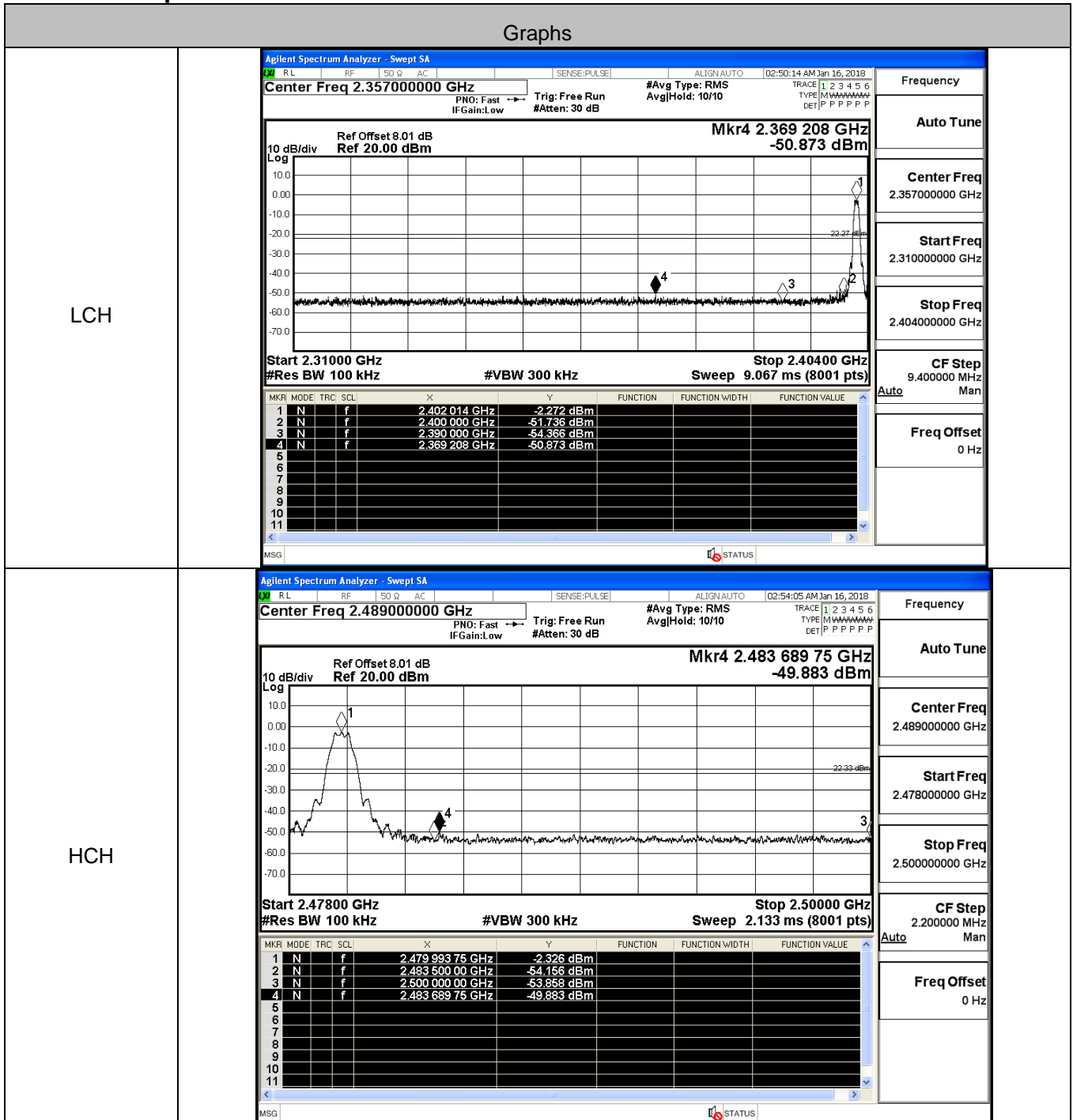
## Test Graphs





**Section C): Band-edge for RF Conducted Emissions****Result Table**

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	-2.272	-50.873	-22.27	PASS
BLE	HCH	-2.326	-49.883	-22.33	PASS

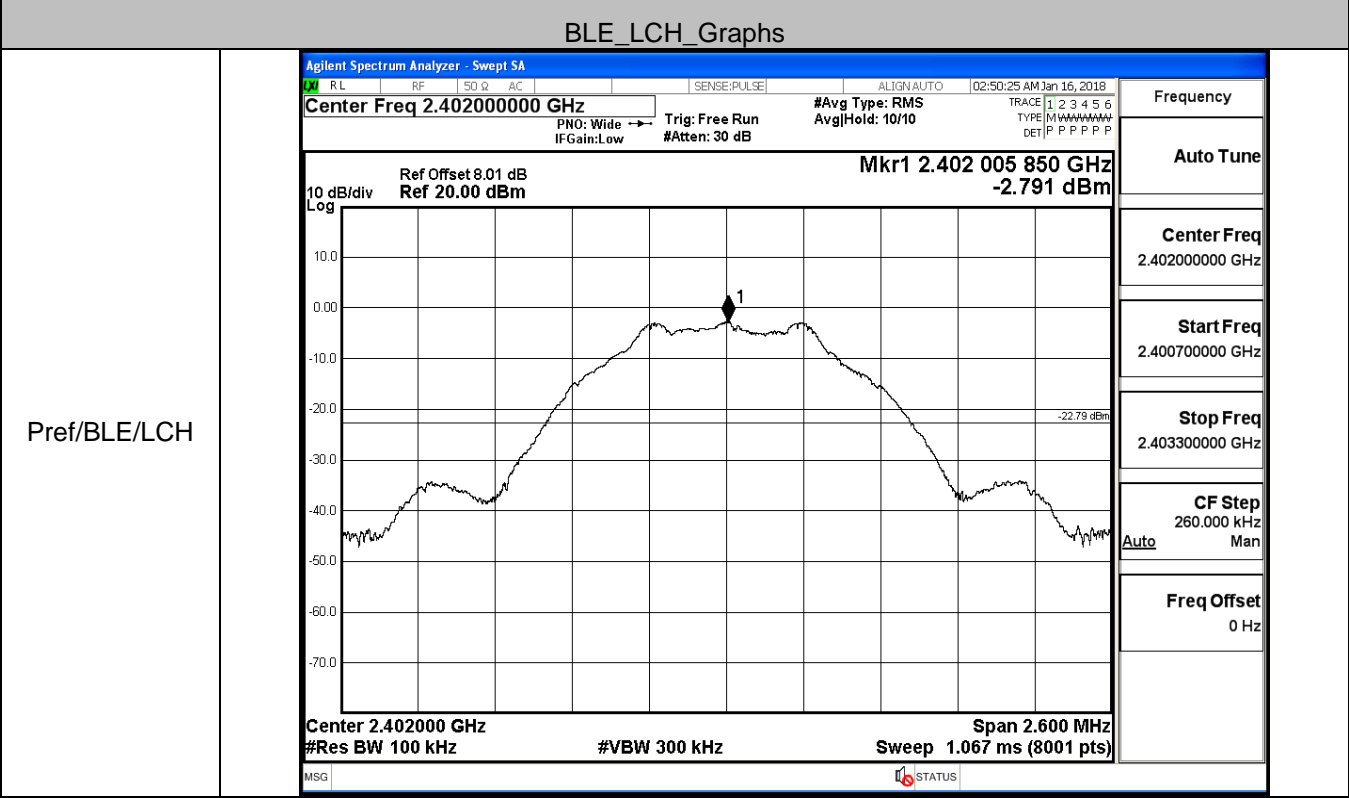
**Test Graphs**

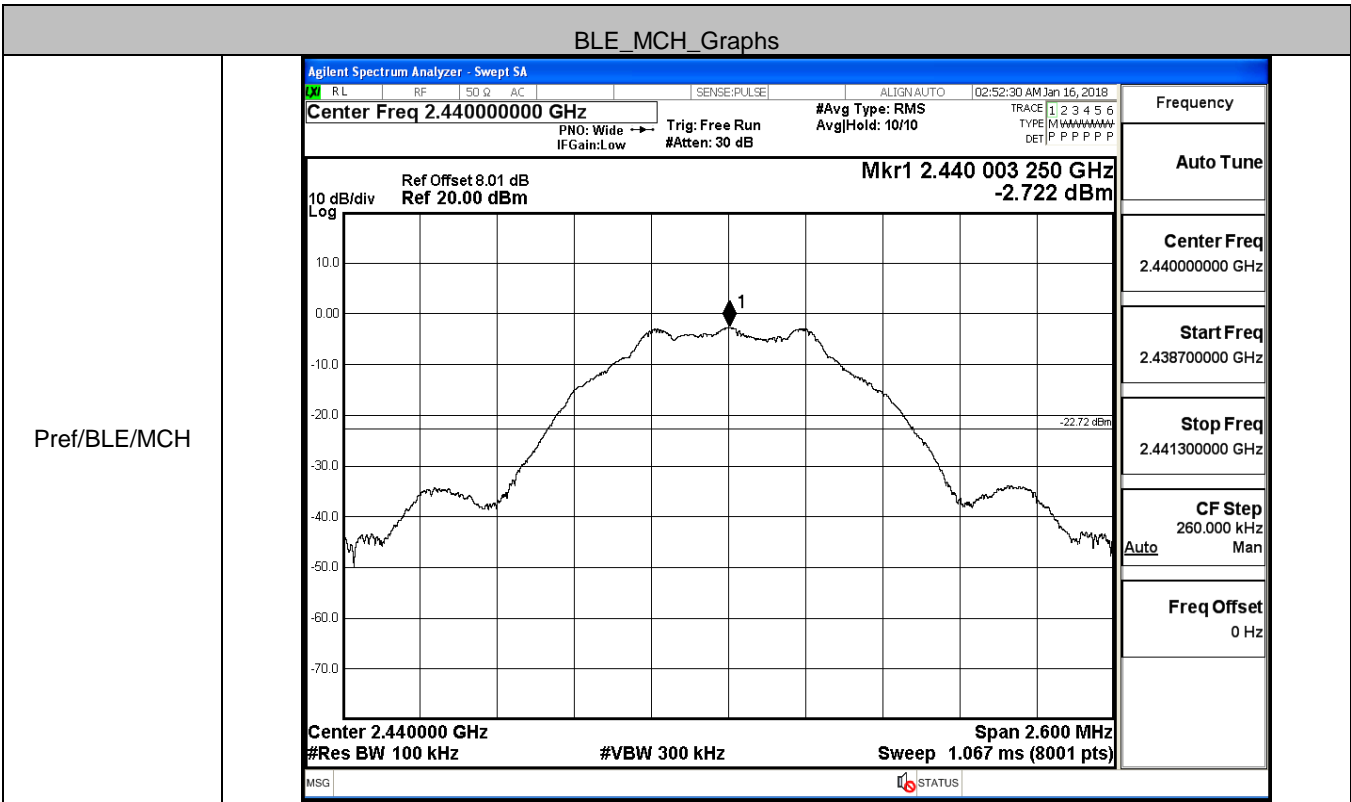
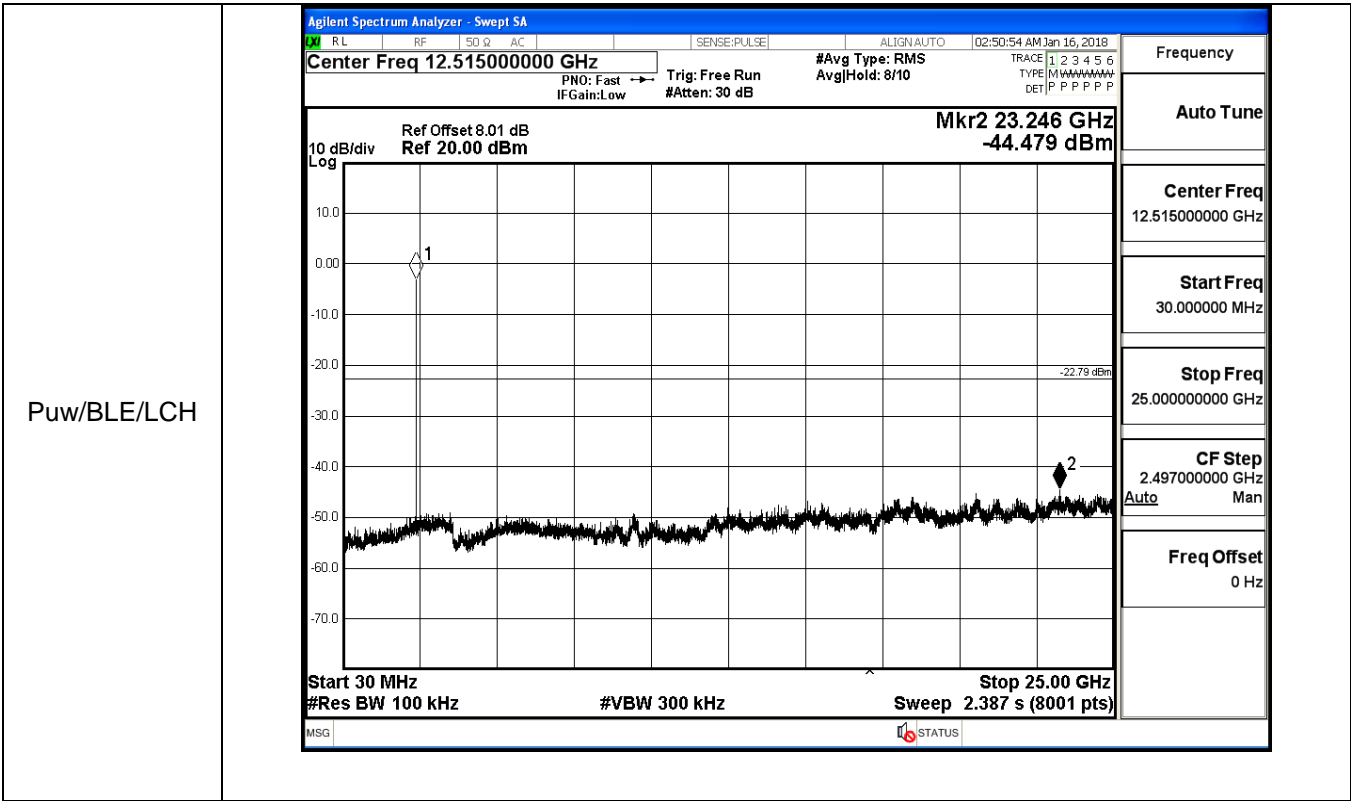
Section D): RF Conducted Spurious Emissions

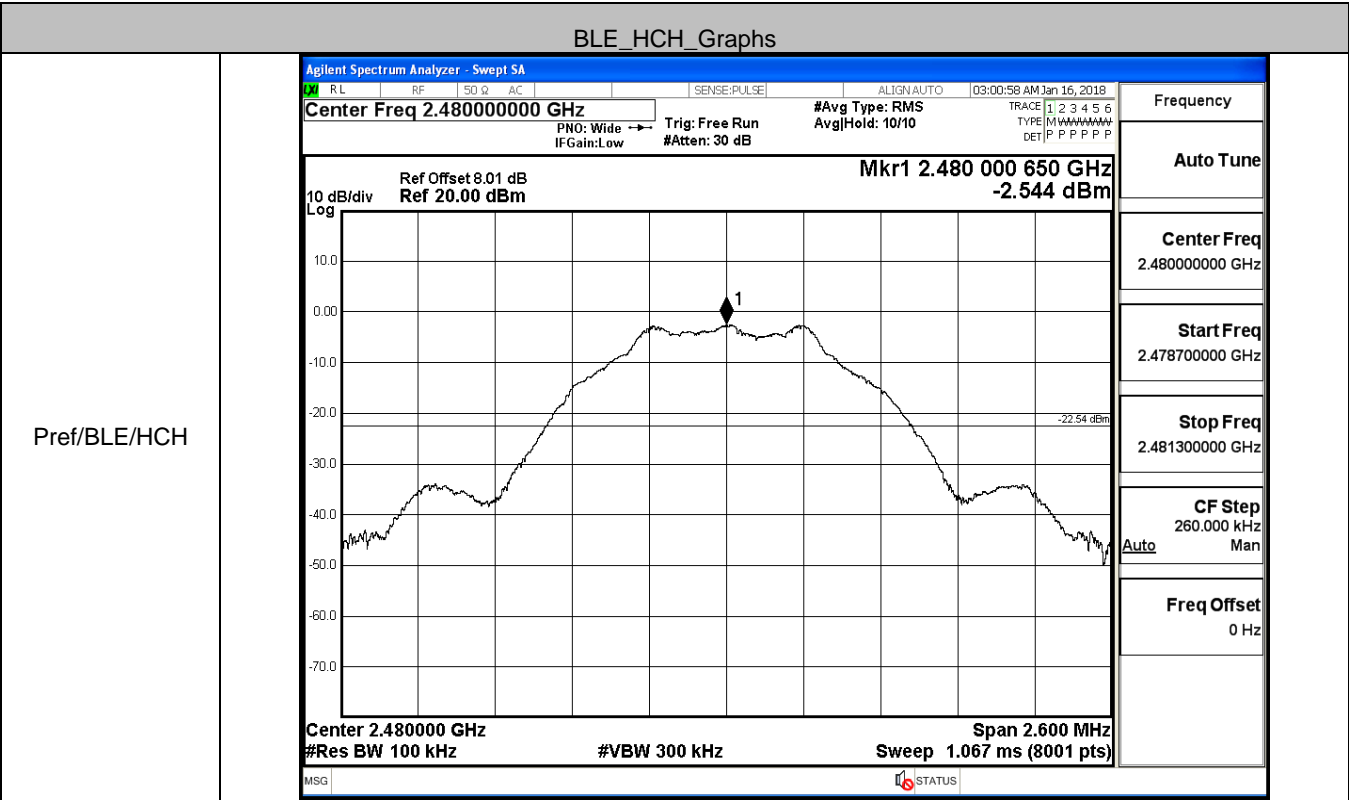
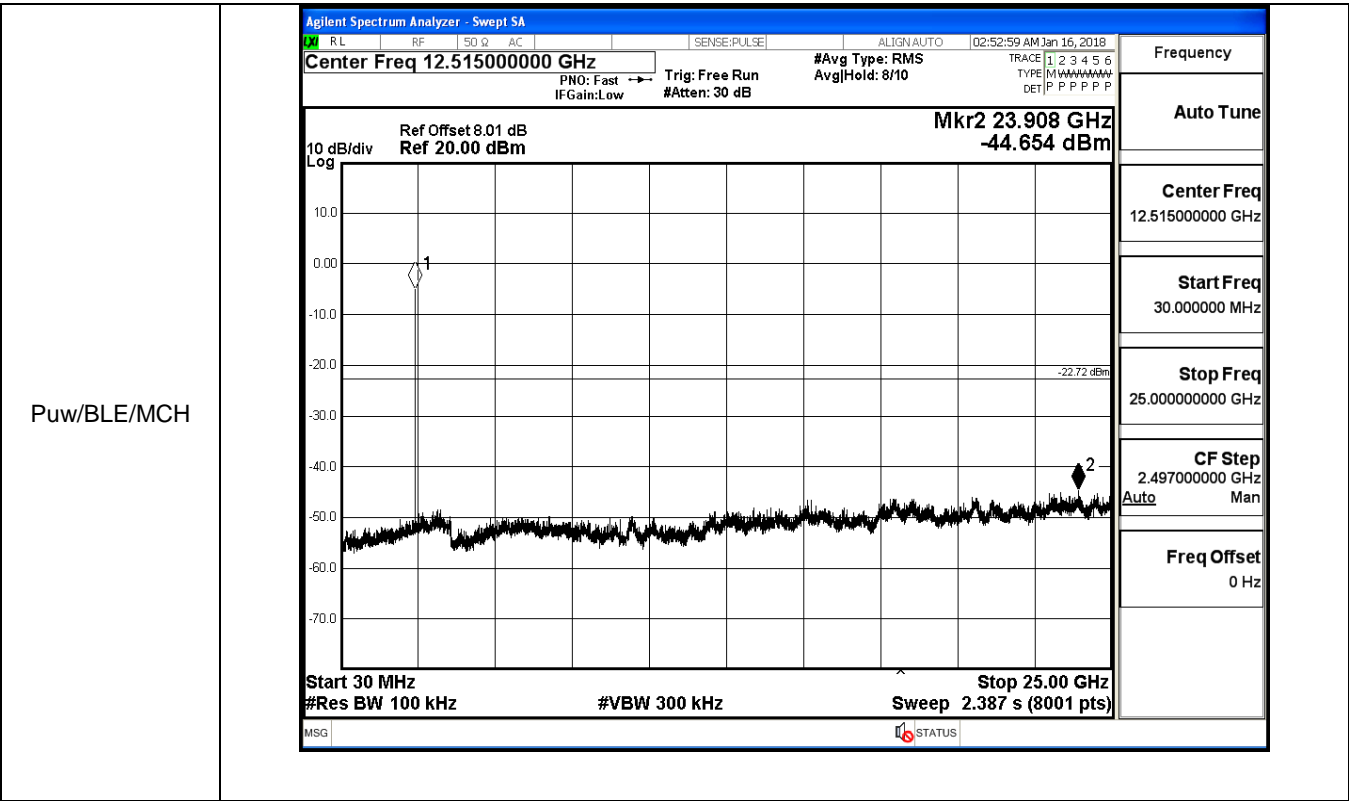
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	-2.791	<Limit	PASS
BLE	MCH	-2.722	<Limit	PASS
BLE	HCH	-2.544	<Limit	PASS

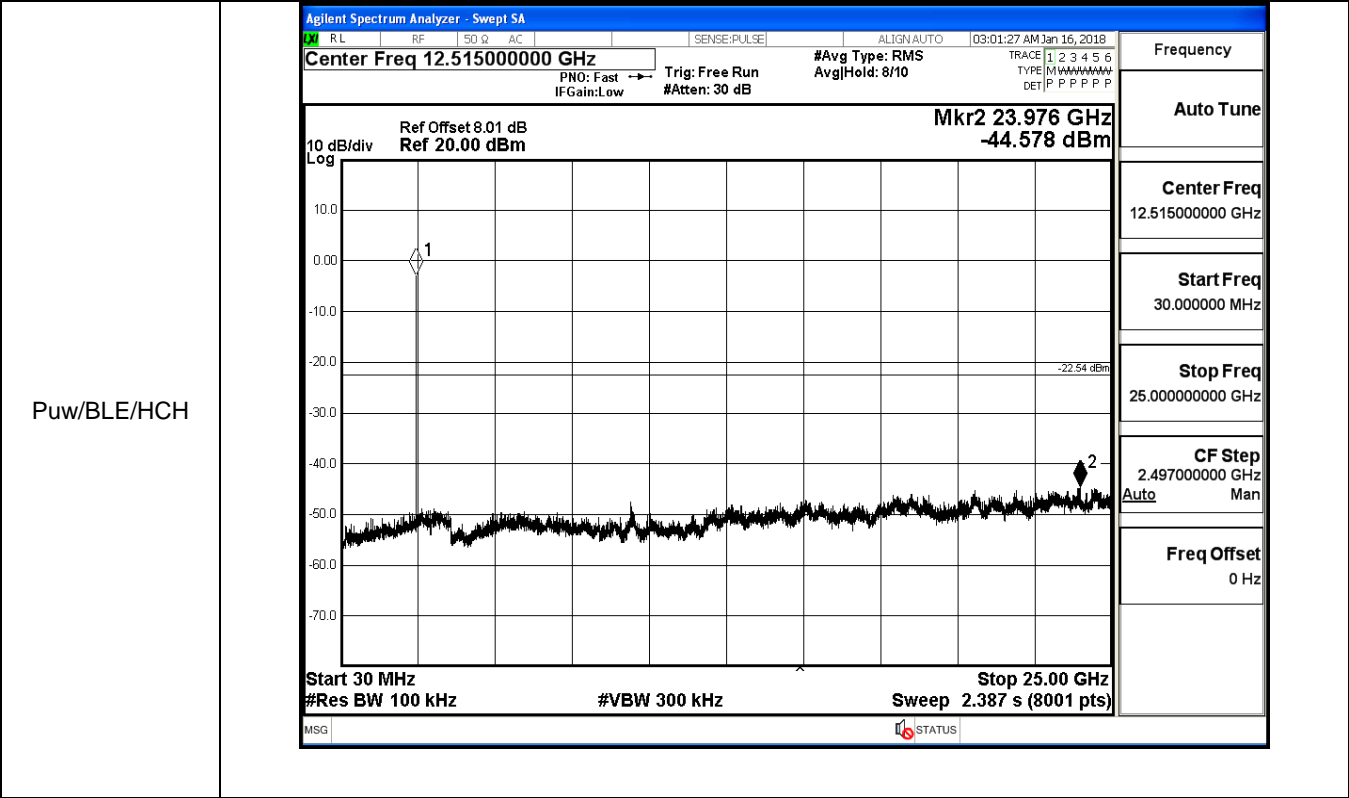
Test Graphs









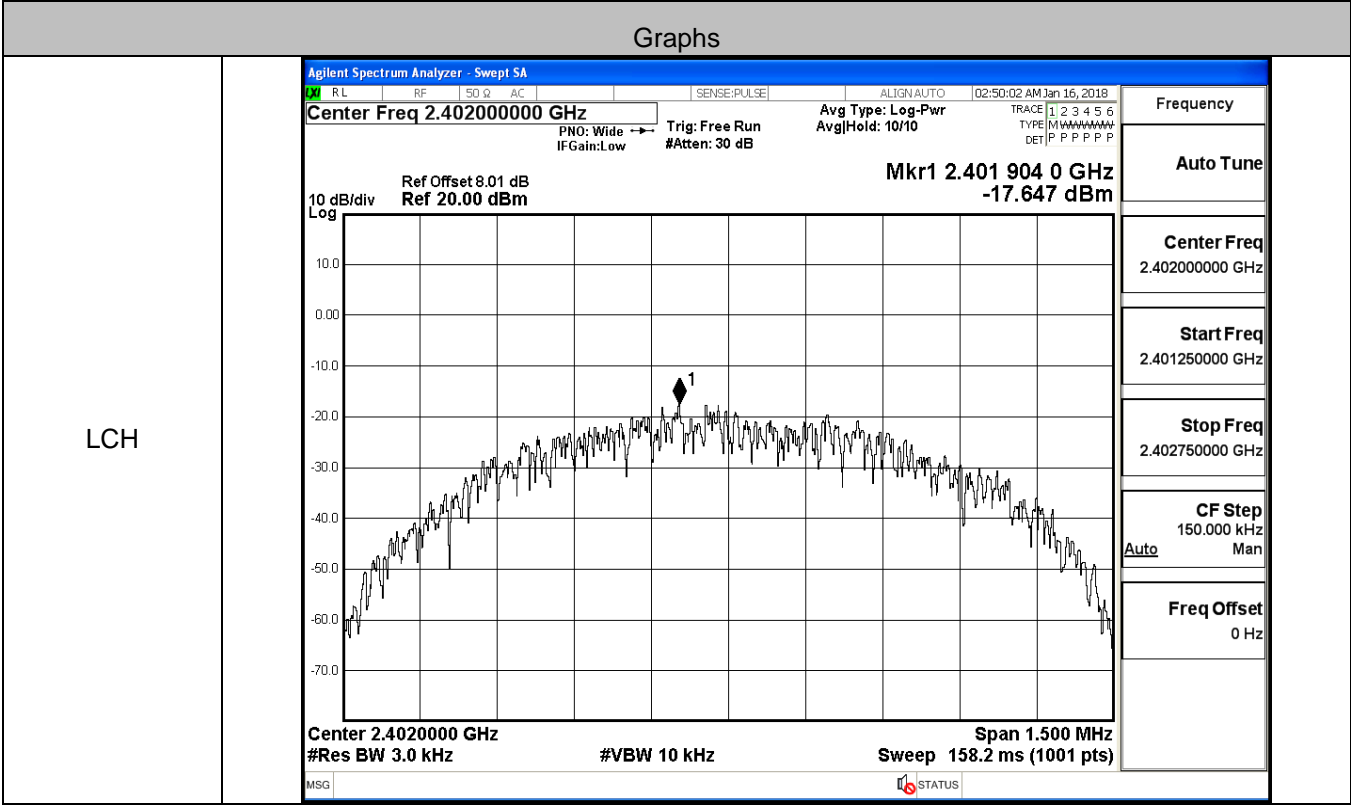


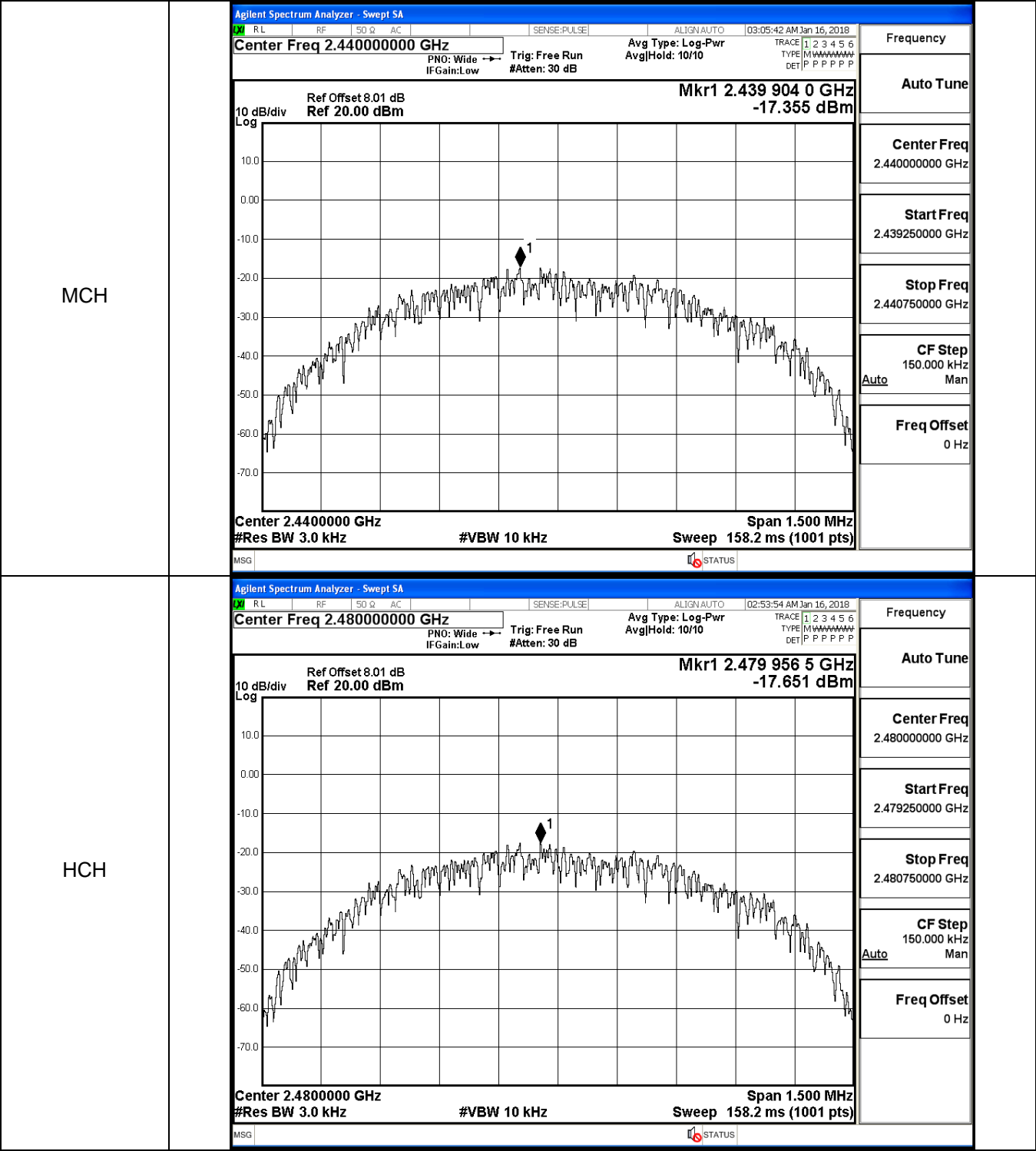
Section E): Power Spectral Density

Result Table

Mode	Channel	PSD [dBm]	Verdict
BLE	LCH	-17.647	PASS
BLE	MCH	-17.355	PASS
BLE	HCH	-17.651	PASS

Test Graphs

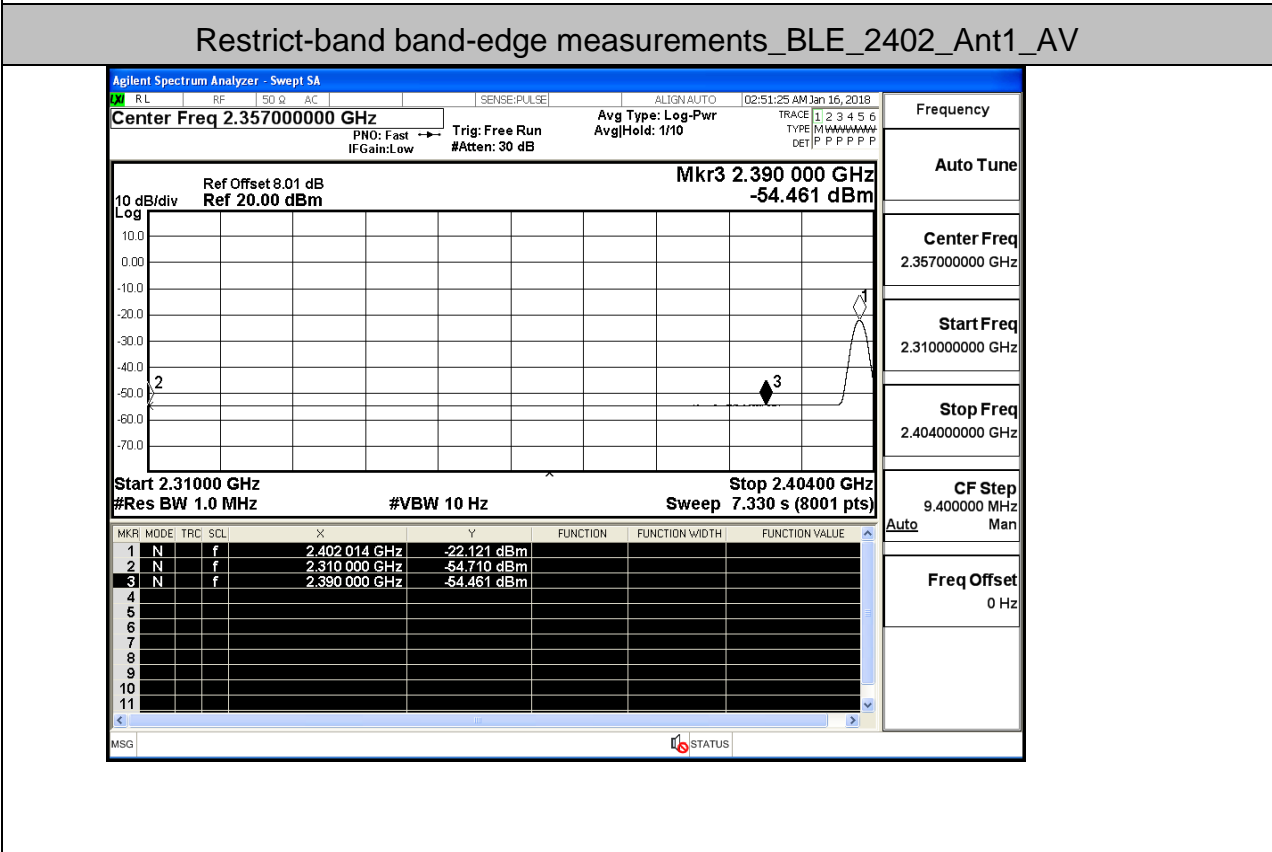
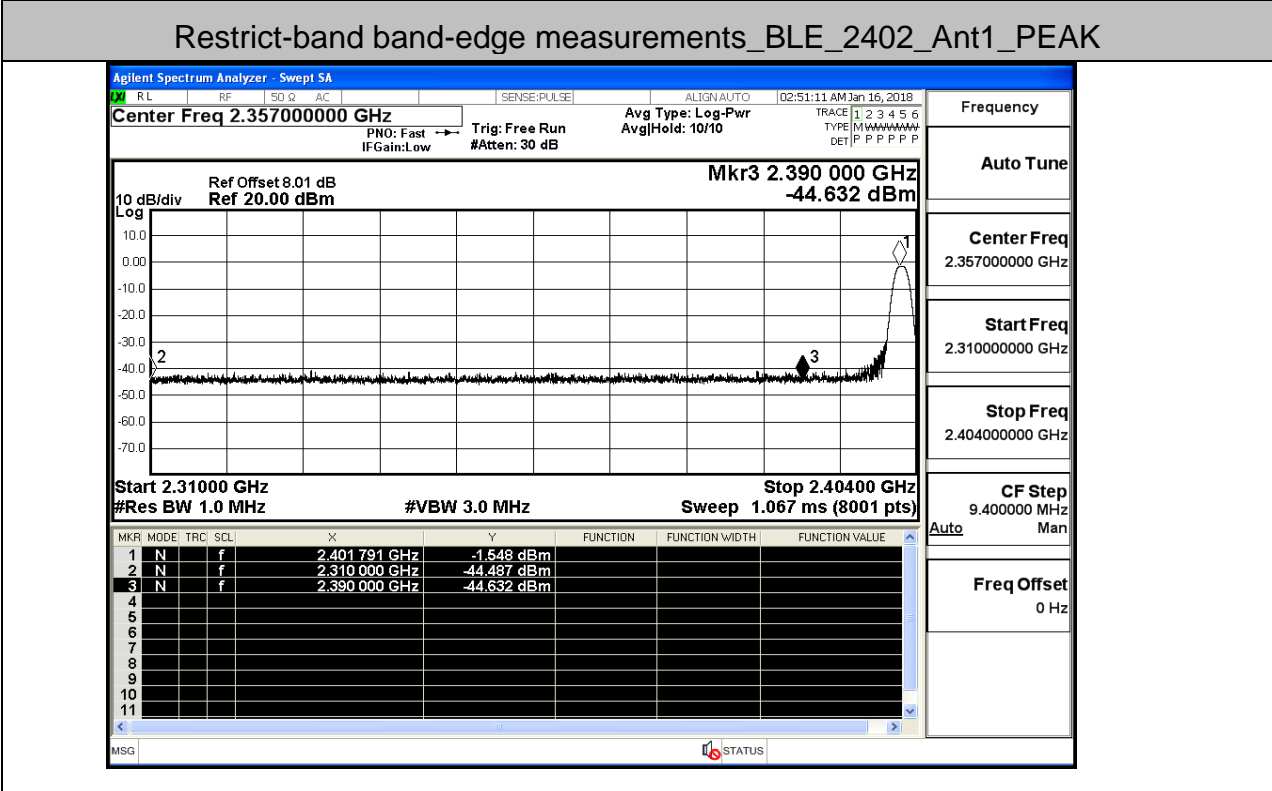




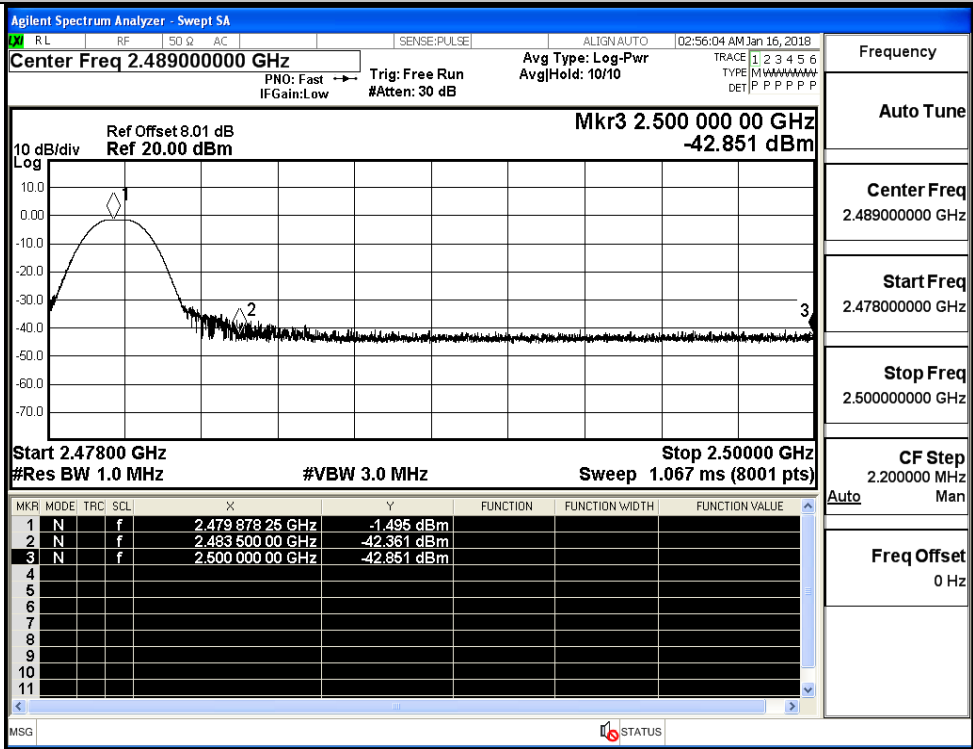
**Section F):Restrict-band band-edge measurements****Result Table**

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verd
BLE	2402	Ant1	2310.0	-44.49	2	0	50.77	PEAK	74	PASS
BLE	2402	Ant1	2310.0	-54.71	2	0	40.55	AV	54	PASS
BLE	2402	Ant1	2390.0	-44.63	2	0	50.63	PEAK	74	PASS
BLE	2402	Ant1	2390.0	-54.46	2	0	40.80	AV	54	PASS
BLE	2480	Ant1	2483.5	-42.36	2	0	52.90	PEAK	74	PASS
BLE	2480	Ant1	2483.5	-54.18	2	0	41.07	AV	54	PASS
BLE	2480	Ant1	2500.0	-42.85	2	0	52.41	PEAK	74	PASS
BLE	2480	Ant1	2500.0	-54.09	2	0	41.17	AV	54	PASS

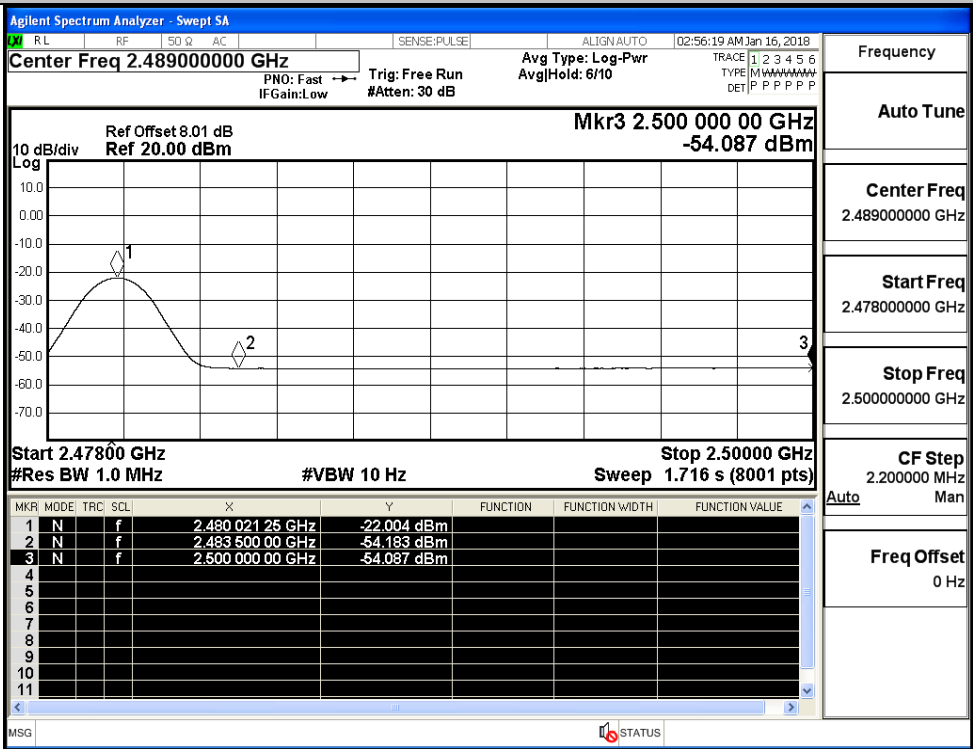
Test Graphs



Restrict-band band-edge measurements\_BLE\_2480\_Ant1\_PEAK



Restrict-band band-edge measurements\_BLE\_2480\_Ant1\_AV



Section G):Duty Cycle

Result Table

Test Mode	Test	Ant	Duty Cycle[%]	Verdict
BLE	2440	Ant1	100	PASS

Test Graphs

