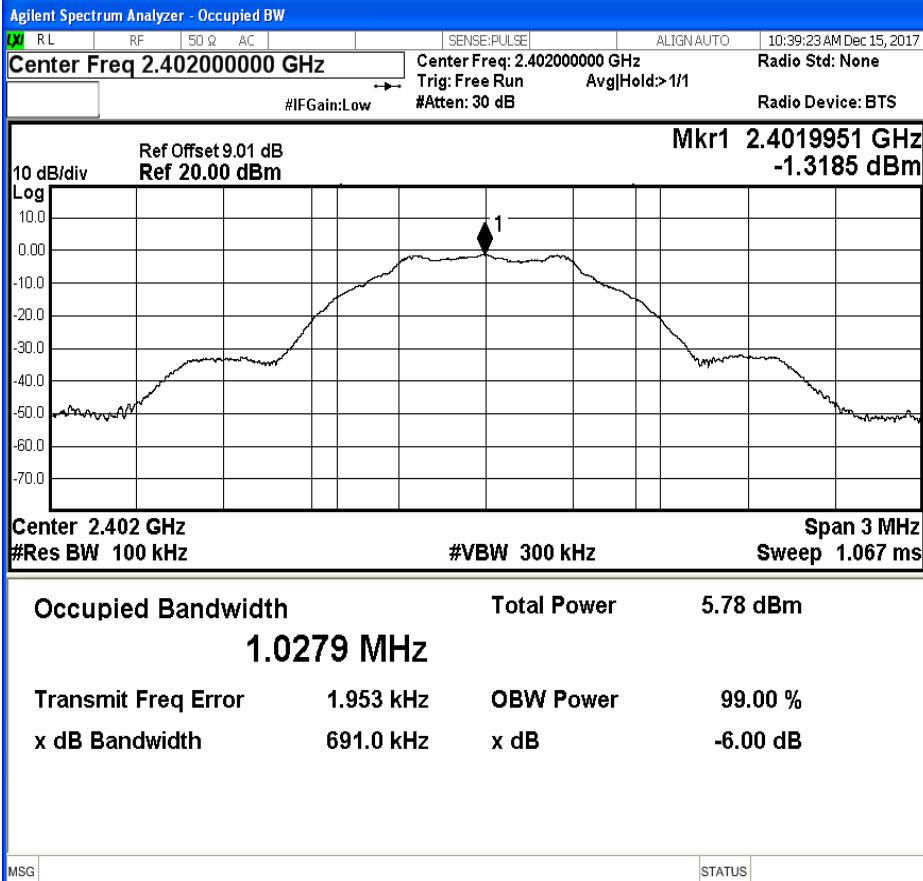


B.1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
BLE	2402	Ant1	0.6910	0.5	PASS
BLE	2440	Ant1	0.6939	0.5	PASS
BLE	2480	Ant1	0.6922	0.5	PASS

6dB Bandwidth_BLE_2402_Ant1



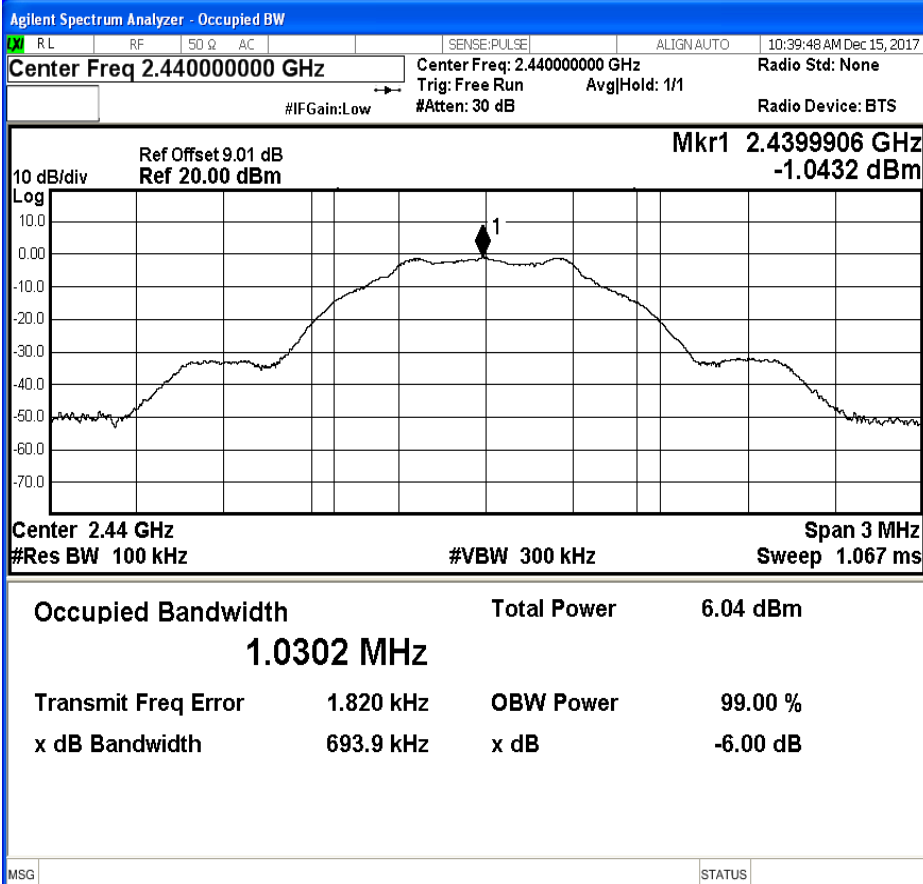
Frequency

Center Freq
2.402000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

6dB Bandwidth_BLE_2440_Ant1



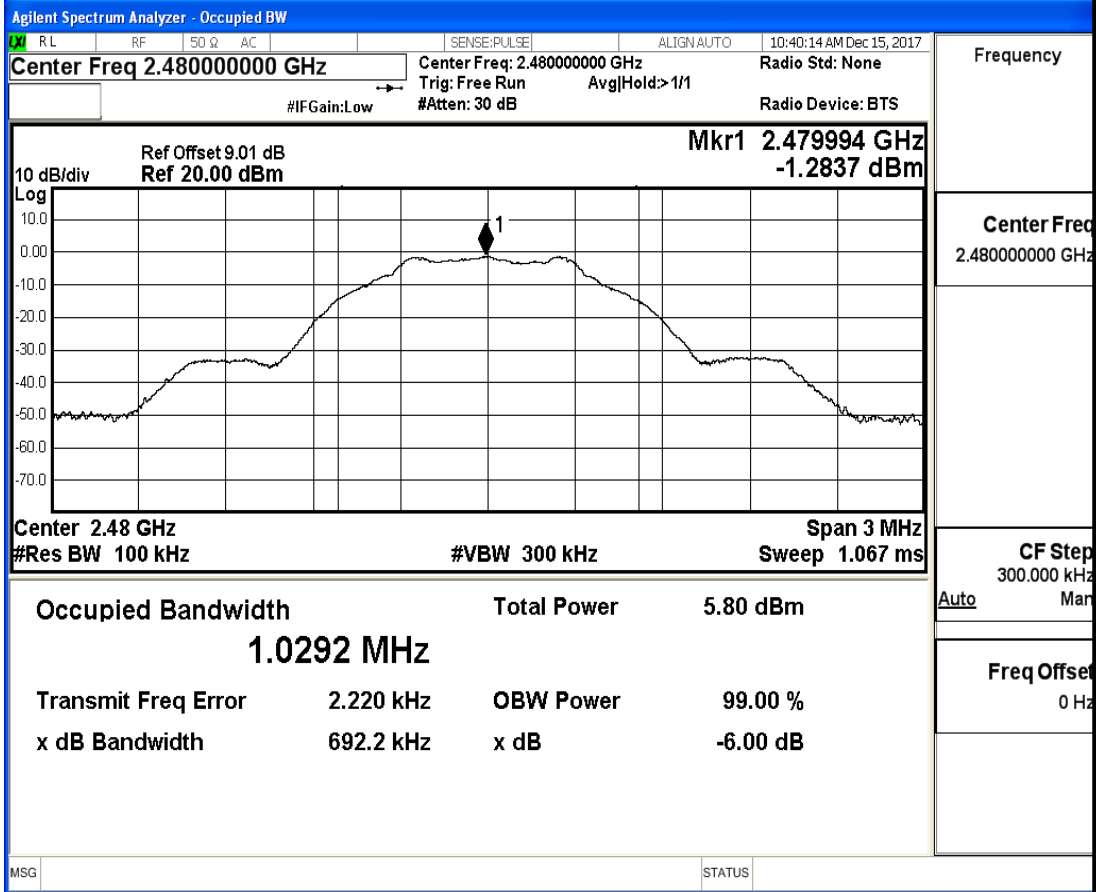
Frequency

Center Freq
2.440000000 GHz

CF Step
300.000 kHz
Auto Man

Freq Offset
0 Hz

6dB Bandwidth_BLE_2480_Ant1



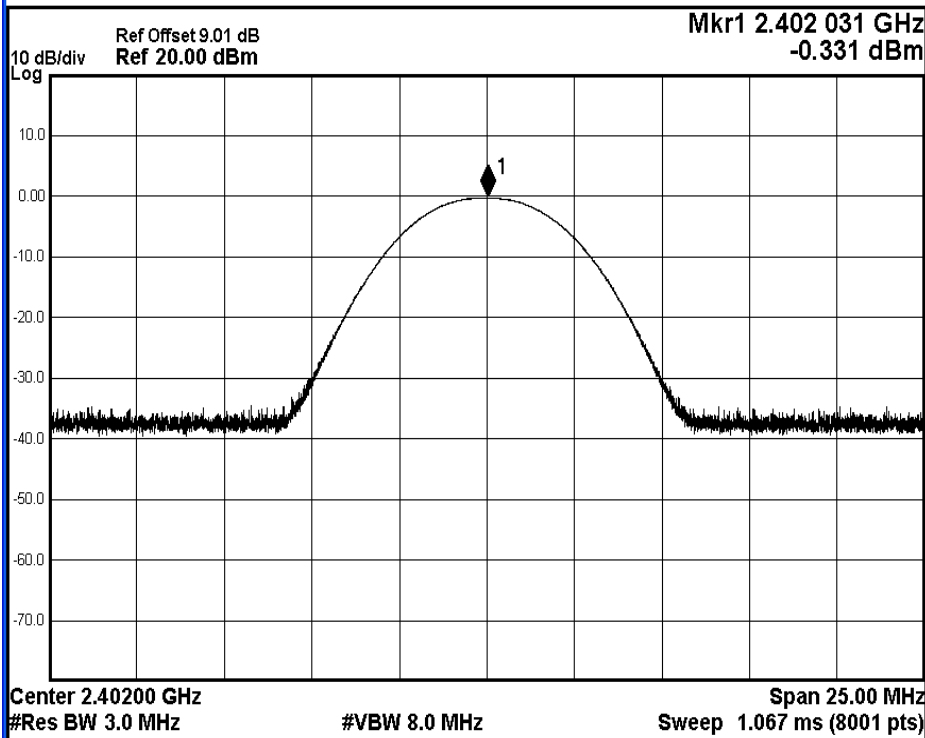
B.2.Maximum peak conducted output power

Test Mode	Test	Ant	Measured Maximum Peak Power(dBm)	Limits (dBm)	Verdict
BLE	2402	Ant1	-0.331	30	PASS
BLE	2440	Ant1	-0.068	30	PASS
BLE	2480	Ant1	-0.278	30	PASS

Maximum peak conducted output power_BLE_2402_Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.40200000 GHz
 PNO: Fast → Trig: Free Run
 IFGain: Low #Atten: 30 dB
 Avg Type: Log-Pwr
 Avg/Hold: 10/10
 10:26:18 AM Dec 15, 2017
 TRACE 1 2 3 4 5 6
 TYPE M W W W W W W W
 DET P P P P P P



Frequency

Auto Tune

Center Freq
 2.40200000 GHz

Start Freq
 2.389500000 GHz

Stop Freq
 2.414500000 GHz

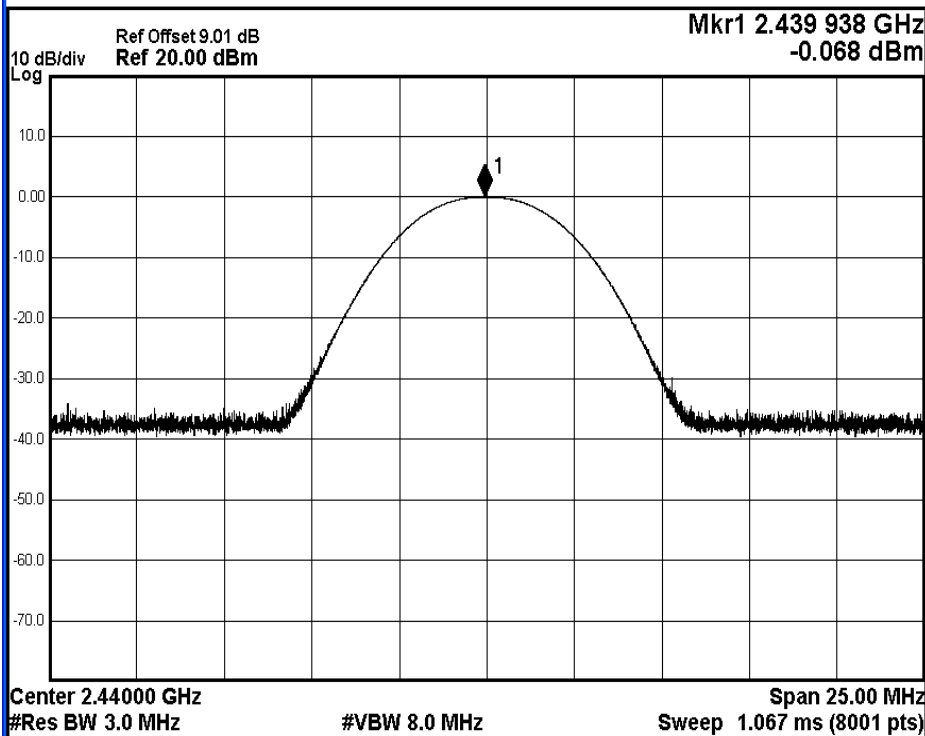
CF Step
 2.500000 MHz
 Auto Man

Freq Offset
 0 Hz

Maximum peak conducted output power_BLE_2440_Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.44000000 GHz
 PNO: Fast → Trig: Free Run
 IFGain: Low #Atten: 30 dB
 Avg Type: Log-Pwr
 Avg/Hold: 10/10
 10:33:46 AM Dec 15, 2017
 TRACE 1 2 3 4 5 6
 TYPE M W W W W W W W
 DET P P P P P P



Frequency

Auto Tune

Center Freq
 2.440000000 GHz

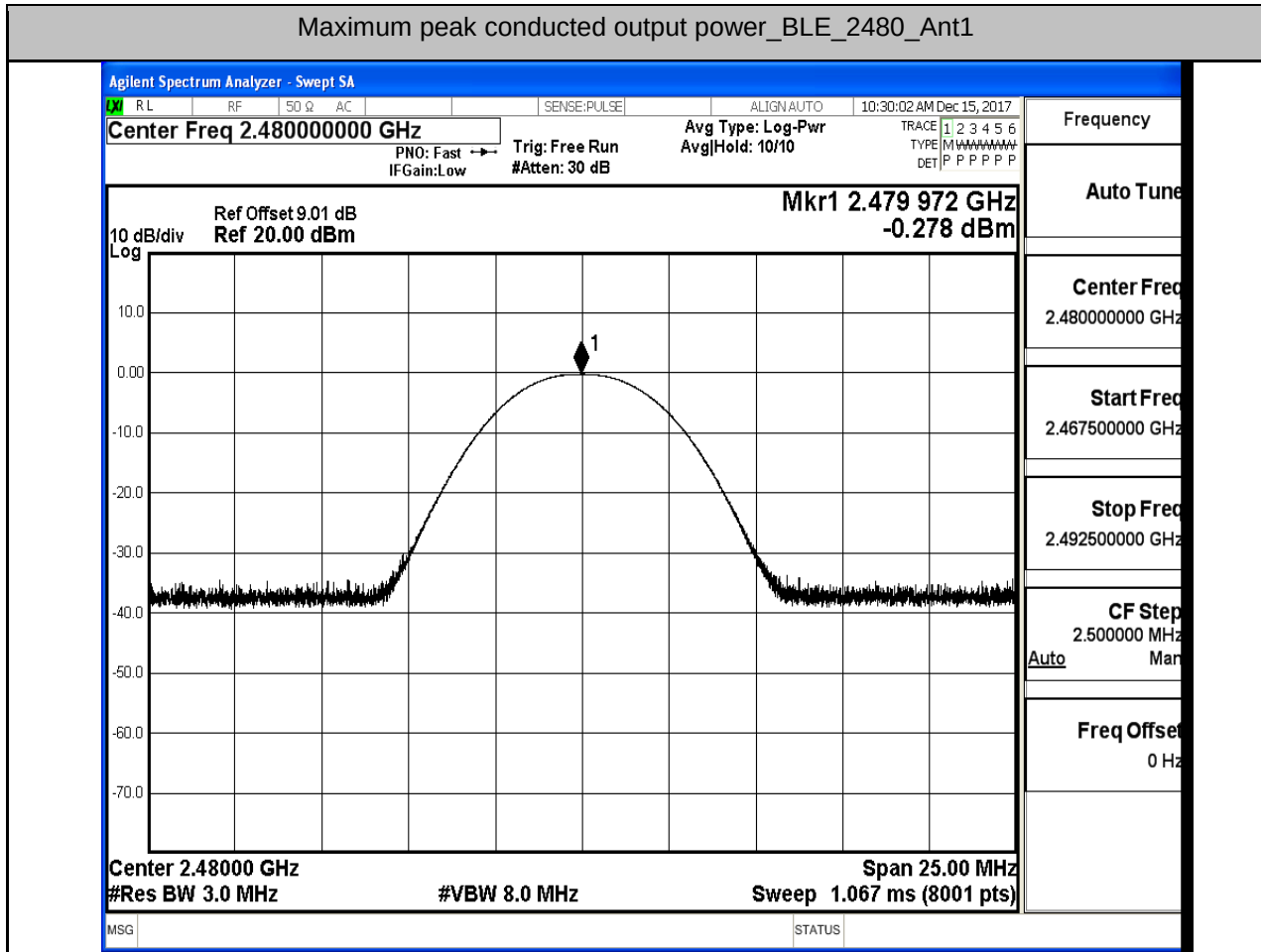
Start Freq
 2.427500000 GHz

Stop Freq
 2.452500000 GHz

CF Step
 2.500000 MHz
 Auto Man

Freq Offset
 0 Hz

Maximum peak conducted output power_BLE_2480_Ant1



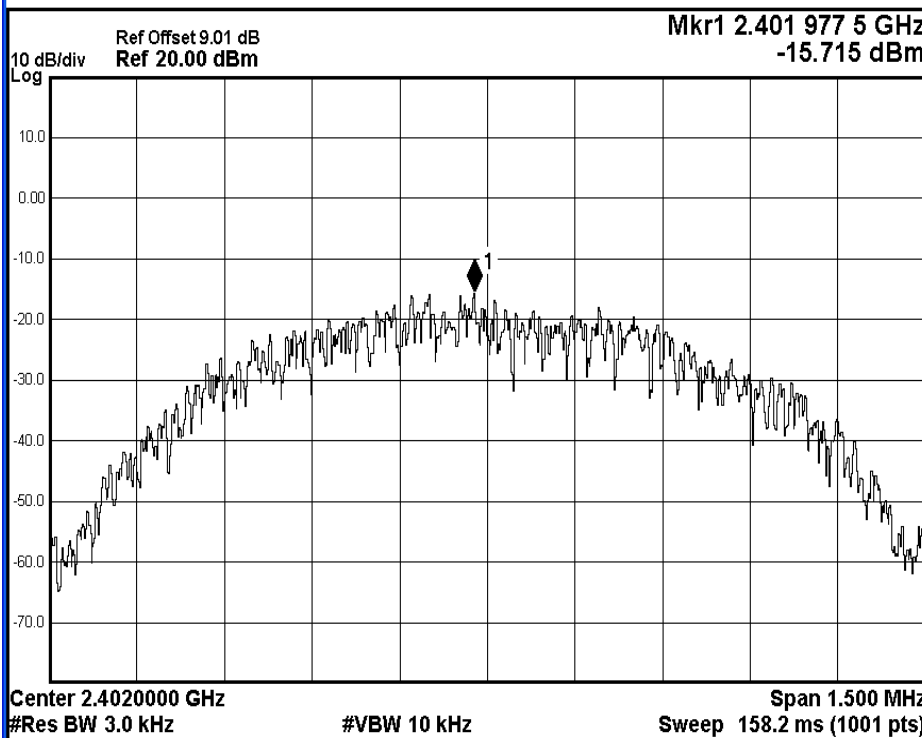
B.3.Maximum Peak power spectral density

Test Mode	Test Channel	Ant	PSD[dBm/3KHz]	Limit[dBm/3KHz]	Verdict
BLE	2402	Ant1	-15.715	8.00	PASS
BLE	2440	Ant1	-15.474	8.00	PASS
BLE	2480	Ant1	-15.731	8.00	PASS

Maximum Peak power spectral density_BLE_2402_Ant1

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 10:26:31 AM Dec 15, 2017
Center Freq 2.402000000 GHz Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
 PNO: Wide Trig: Free Run AvgHold: 10/10 TYPE M W W W W W W W
 IFGain: Low #Atten: 30 dB DET P P P P P P



MSG STATUS

Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.401250000 GHz

Stop Freq
2.402750000 GHz

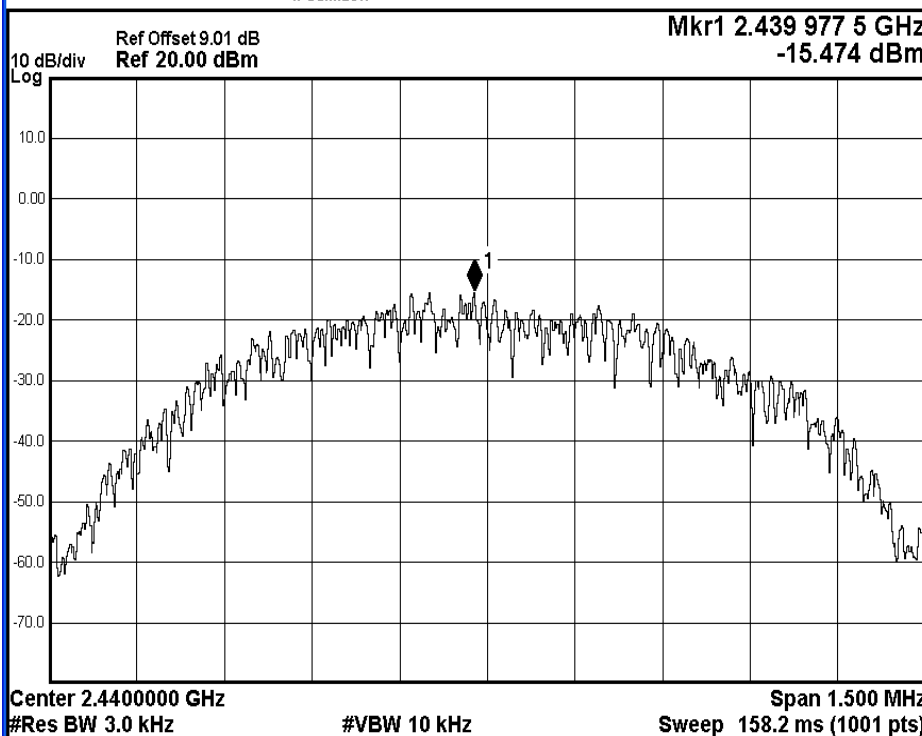
CF Step
150.000 kHz
Auto Man

Freq Offset
0 Hz

Maximum Peak power spectral density_BLE_2440_Ant1

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE ALIGN AUTO 10:33:59 AM Dec 15, 2017
Center Freq 2.440000000 GHz Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
 PNO: Wide Trig: Free Run AvgHold: 10/10 TYPE M W W W W W W W
 IFGain: Low #Atten: 30 dB DET P P P P P P



MSG STATUS

Frequency

Auto Tune

Center Freq
2.440000000 GHz

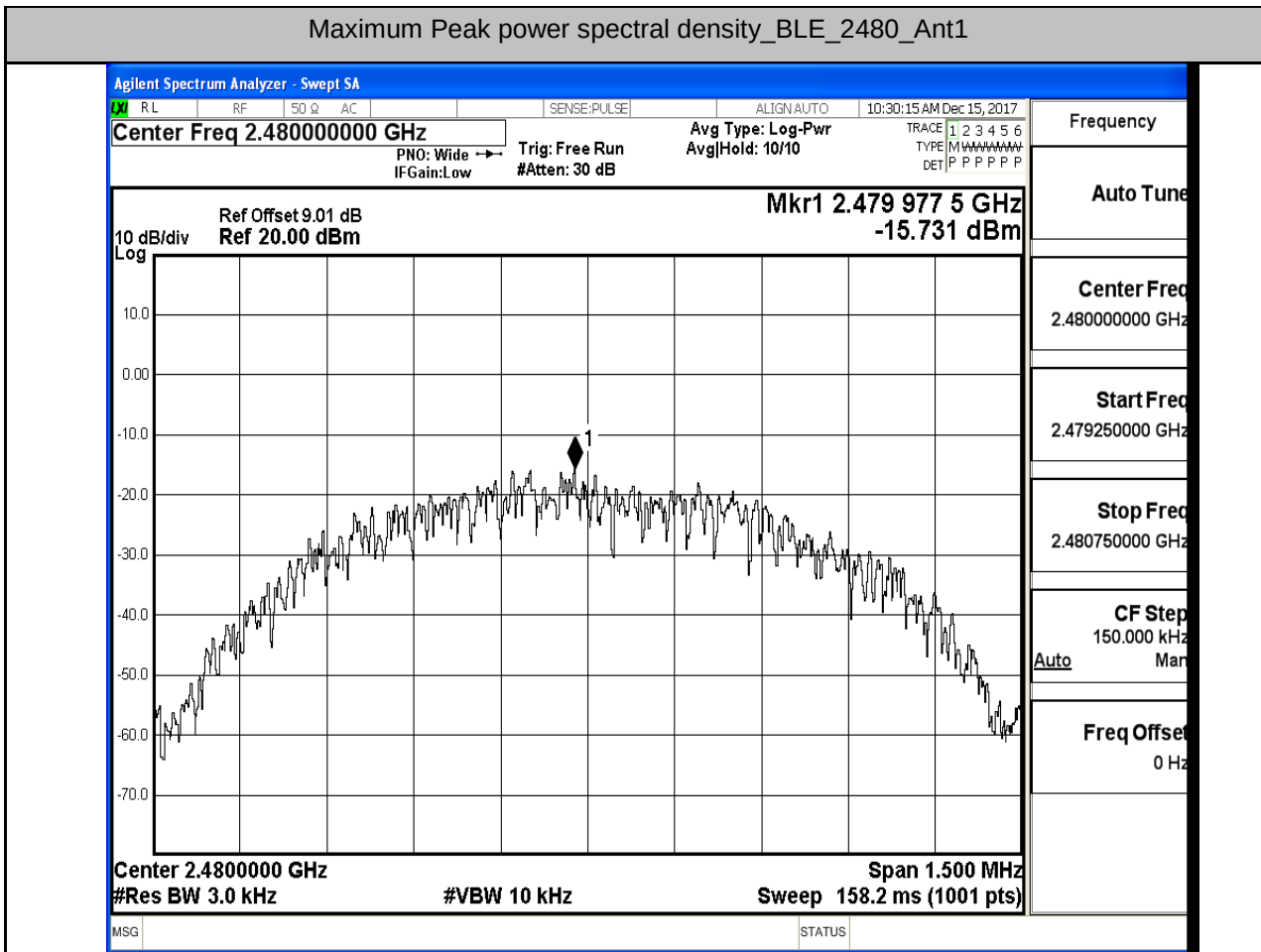
Start Freq
2.439250000 GHz

Stop Freq
2.440750000 GHz

CF Step
150.000 kHz
Auto Man

Freq Offset
0 Hz

Maximum Peak power spectral density_BLE_2480_Ant1



B.4.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-1.161	-49.102	-21.16	PASS
BLE	2480	Ant1	-1.088	-49.991	-21.09	PASS

Band-edge for RF Conducted Emissions_BLE_2402_Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.35700000 GHz
 PNO: Fast → Trig: Free Run #Avg Type: RMS
 IFGain: Low #Atten: 30 dB Avg|Hold: 10/10

Frequency

Auto Tune

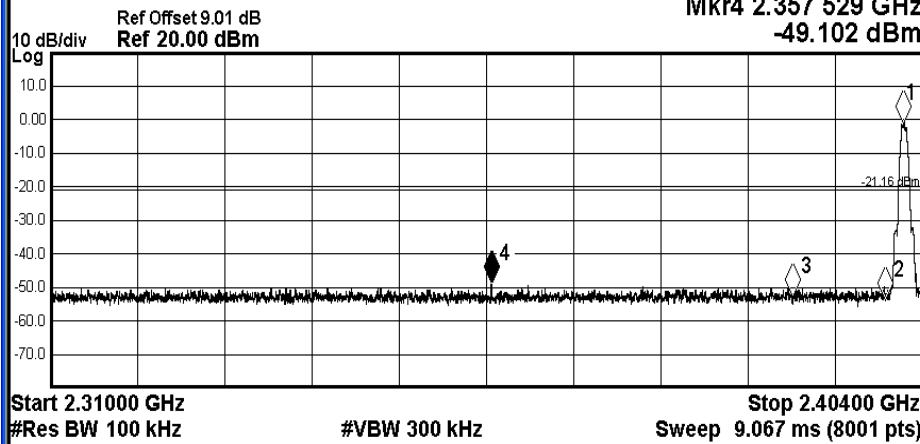
Center Freq
2.35700000 GHz

Start Freq
2.31000000 GHz

Stop Freq
2.40400000 GHz

CF Step
9.400000 MHz

Freq Offset
0 Hz



MR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.401 991 GHz	-1.161 dBm			
2	N	f		2.400 000 GHz	-53.732 dBm			
3	N	f		2.390 000 GHz	-52.914 dBm			
4	N	f		2.357 529 GHz	-49.102 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Band-edge for RF Conducted Emissions_BLE_2480_Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.489000000 GHz
 PNO: Fast → Trig: Free Run #Avg Type: RMS
 IFGain: Low #Atten: 30 dB Avg|Hold: 10/10

Frequency

Auto Tune

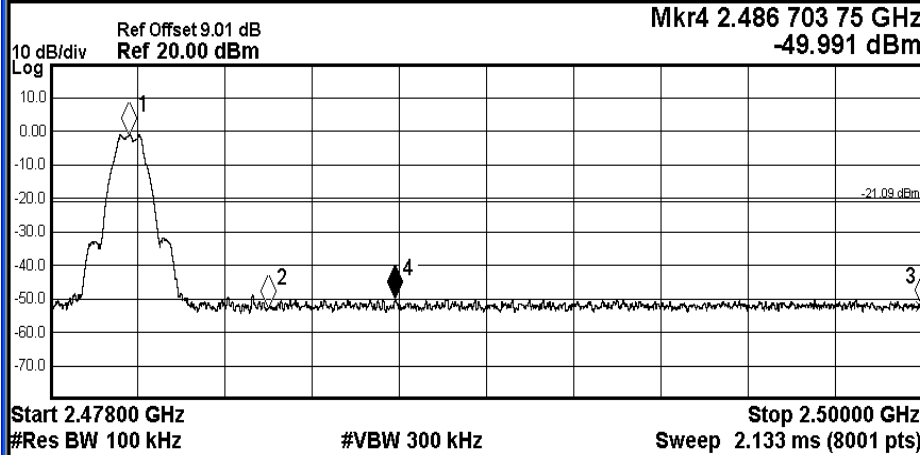
Center Freq
2.489000000 GHz

Start Freq
2.478000000 GHz

Stop Freq
2.500000000 GHz

CF Step
2.200000 MHz

Freq Offset
0 Hz



MR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.479 996 50 GHz	-1.088 dBm			
2	N	f		2.483 500 00 GHz	-52.924 dBm			
3	N	f		2.500 000 00 GHz	-52.527 dBm			
4	N	f		2.486 703 75 GHz	-49.991 dBm			
5								
6								
7								
8								
9								
10								
11								

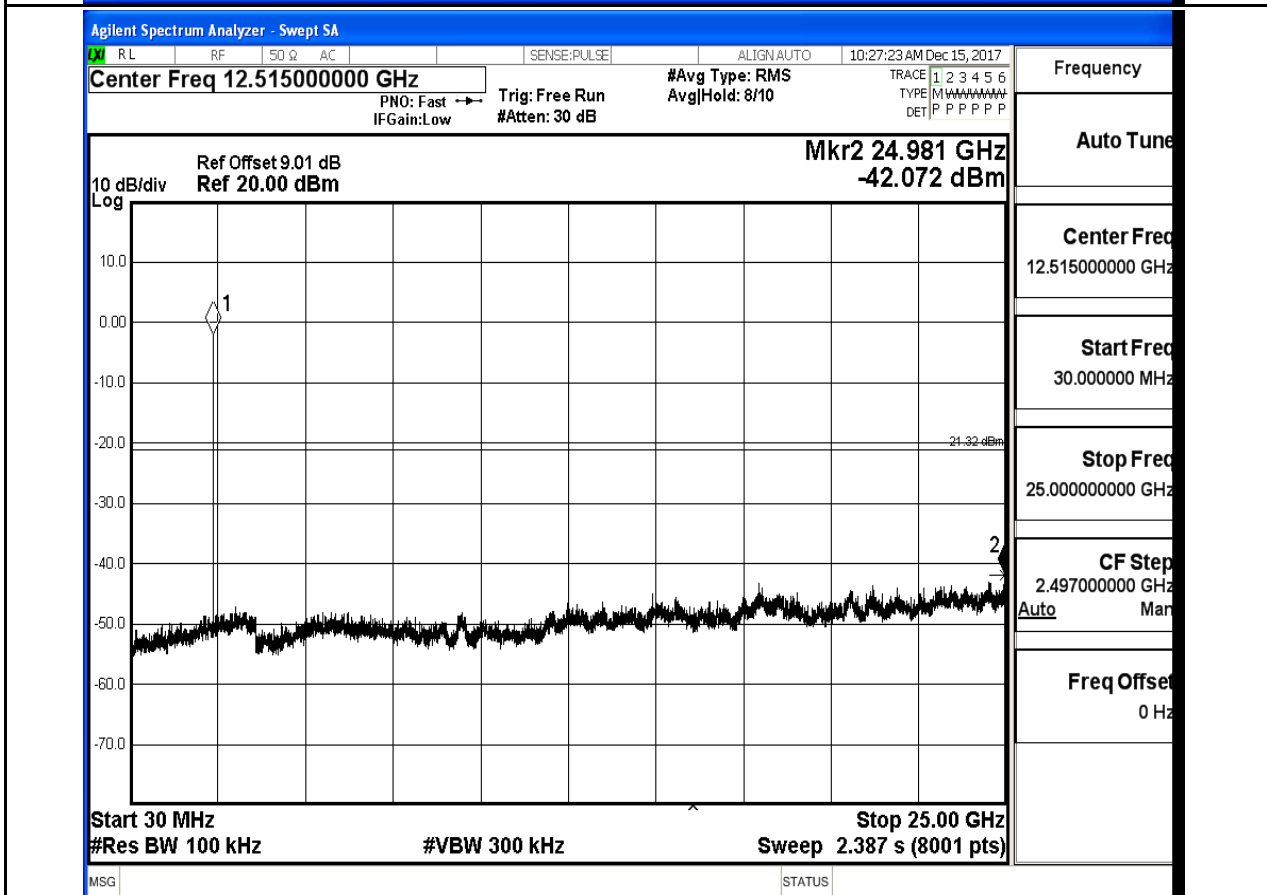
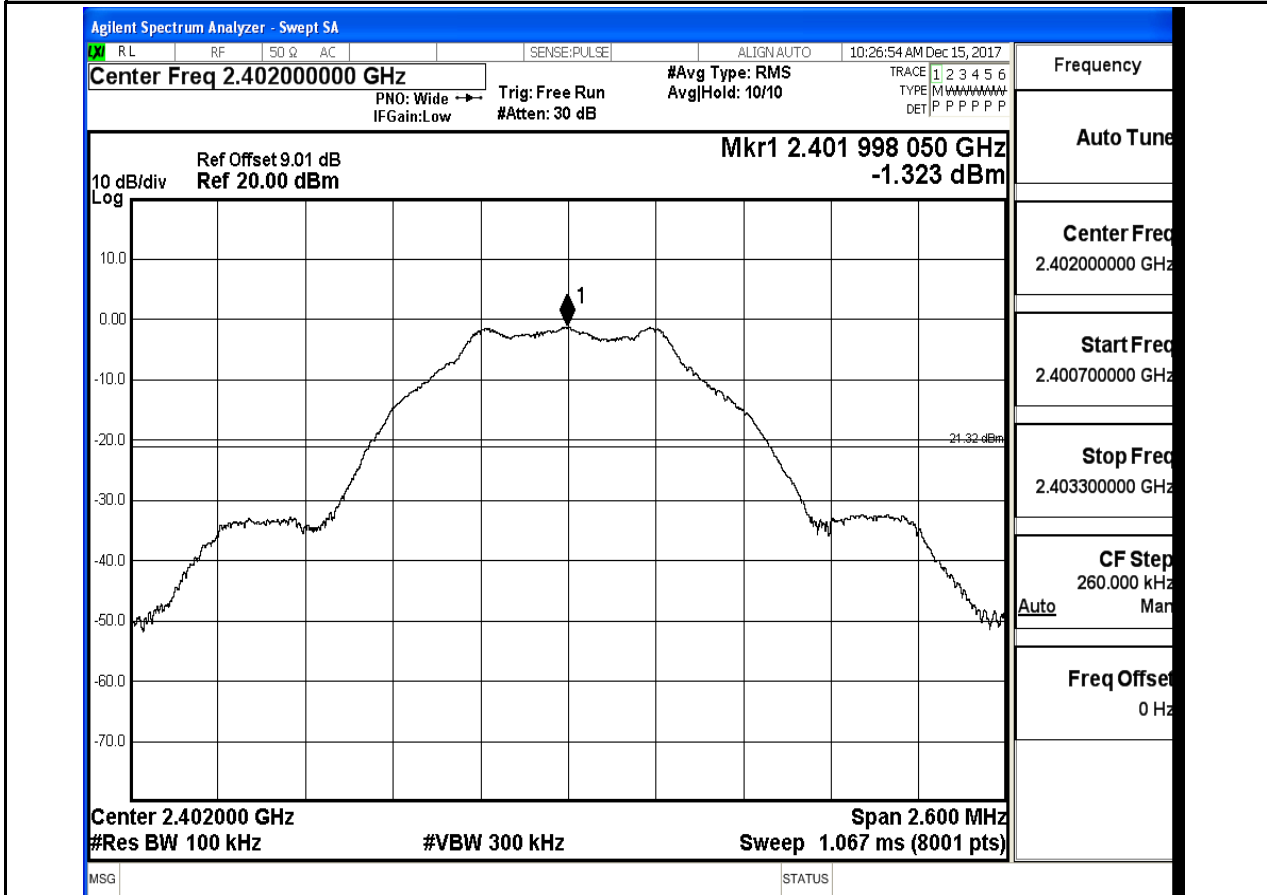
MSG

STATUS

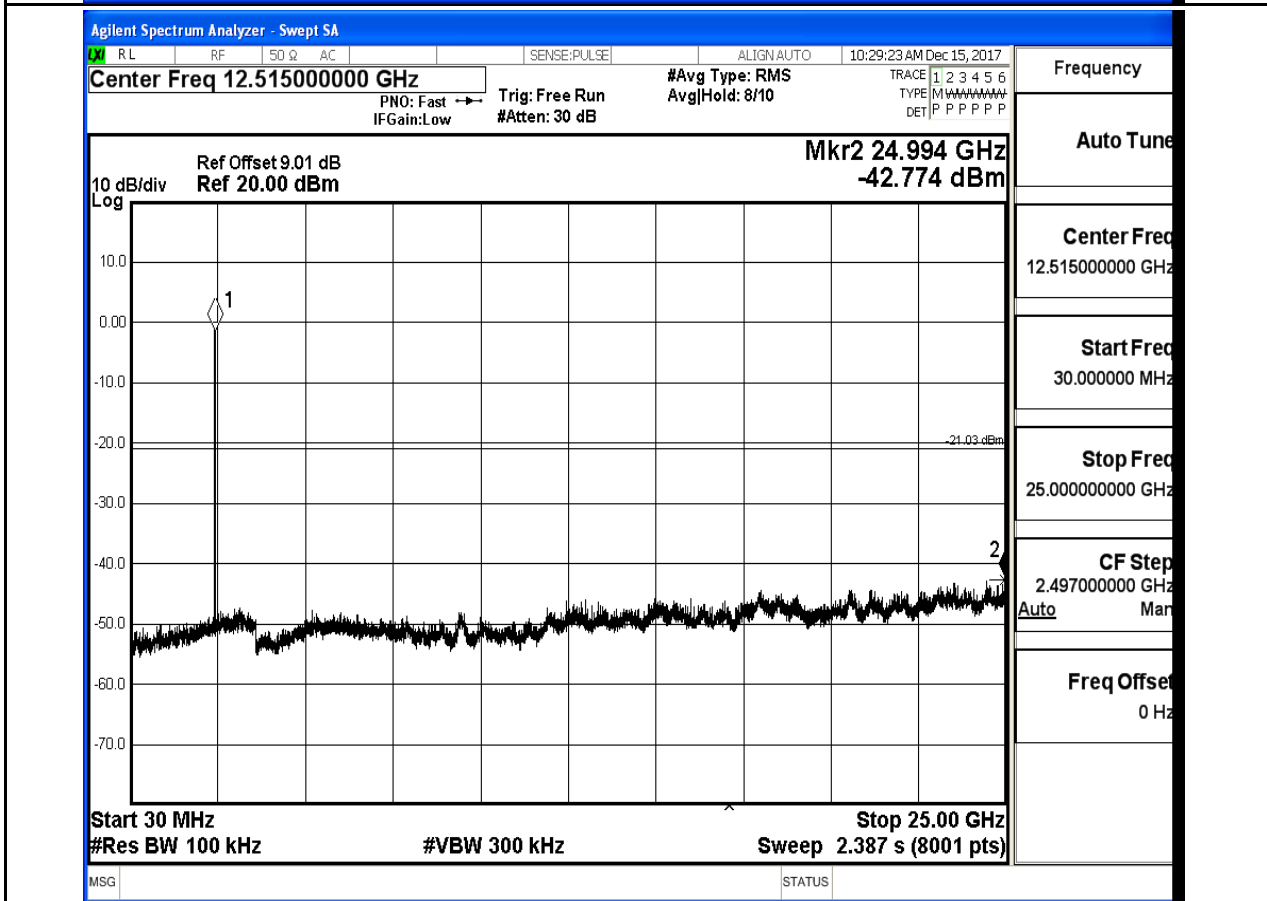
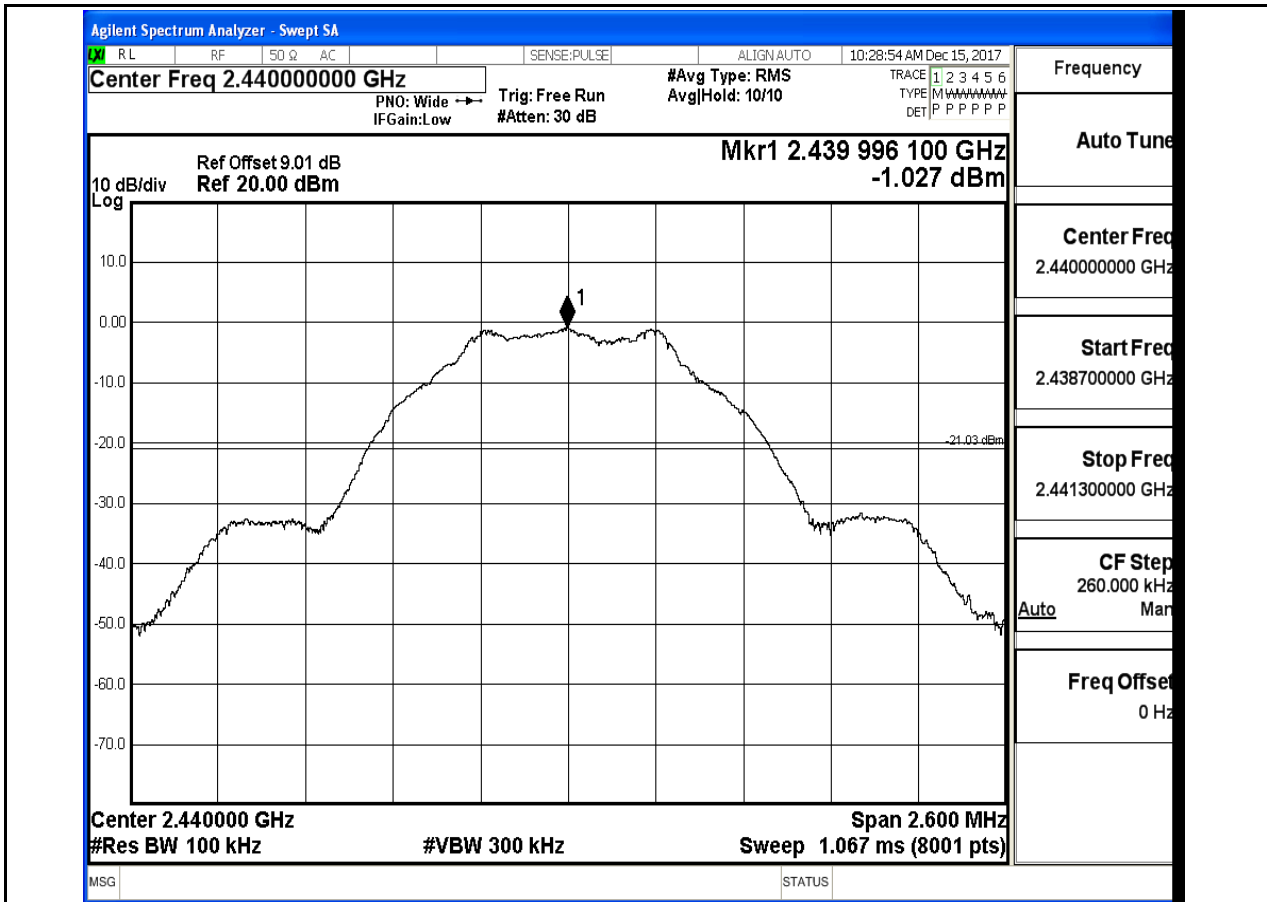
B.5.RF Conducted Spurious Emissions

Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	30	25000	100	300	-1.323	-42.072	<-21.323	PASS
BLE	2440	Ant1	30	25000	100	300	-1.027	-42.774	<-21.027	PASS
BLE	2480	Ant1	30	25000	100	300	-1.253	-38.003	<-21.253	PASS

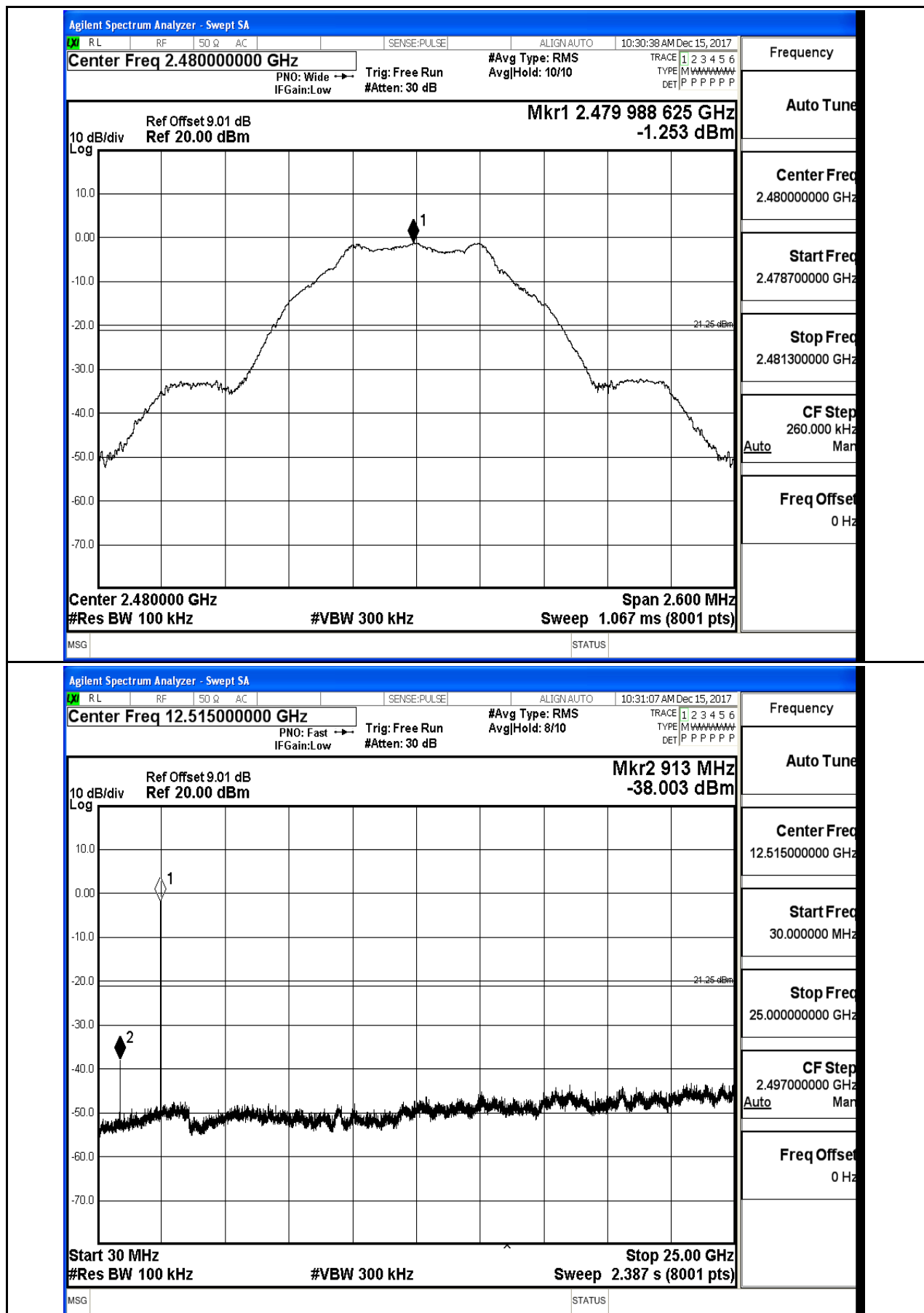
RF Conducted Spurious Emissions_BLE_2402_Ant1



RF Conducted Spurious Emissions_BLE_2440_Ant1



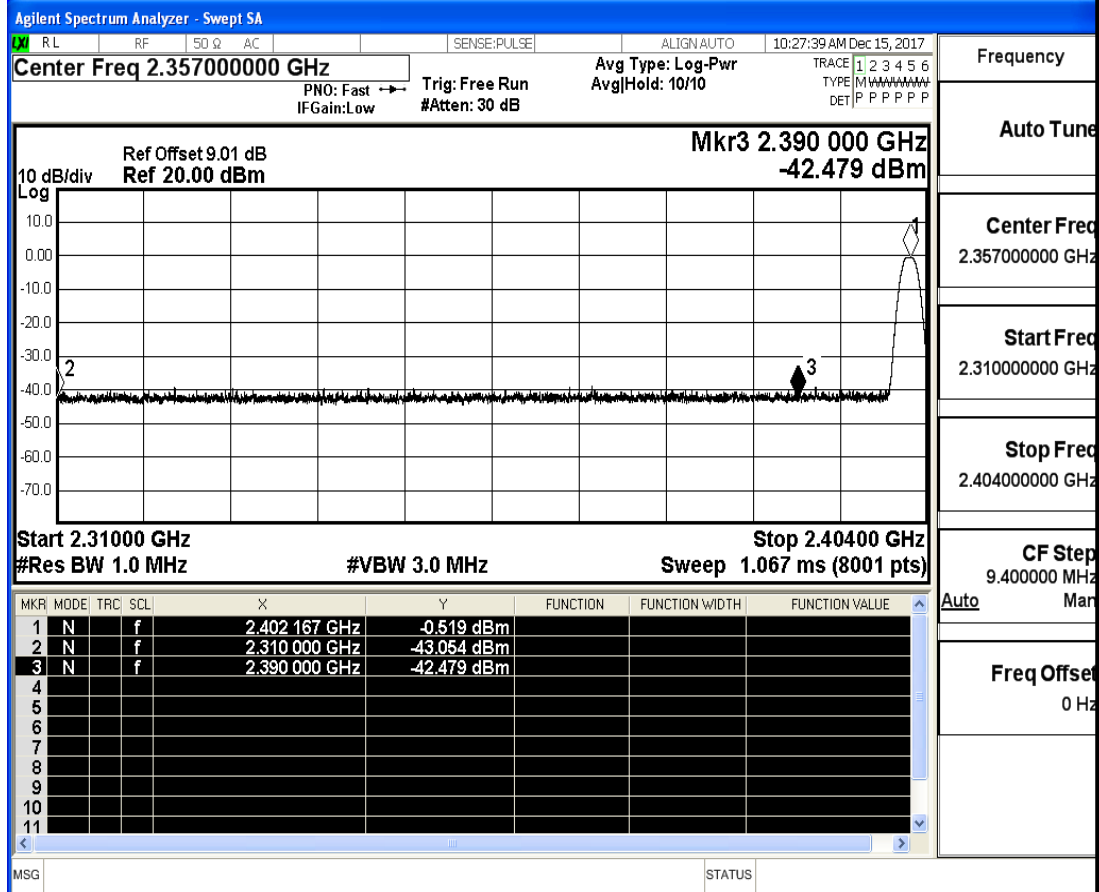
RF Conducted Spurious Emissions_BLE_2480_Ant1



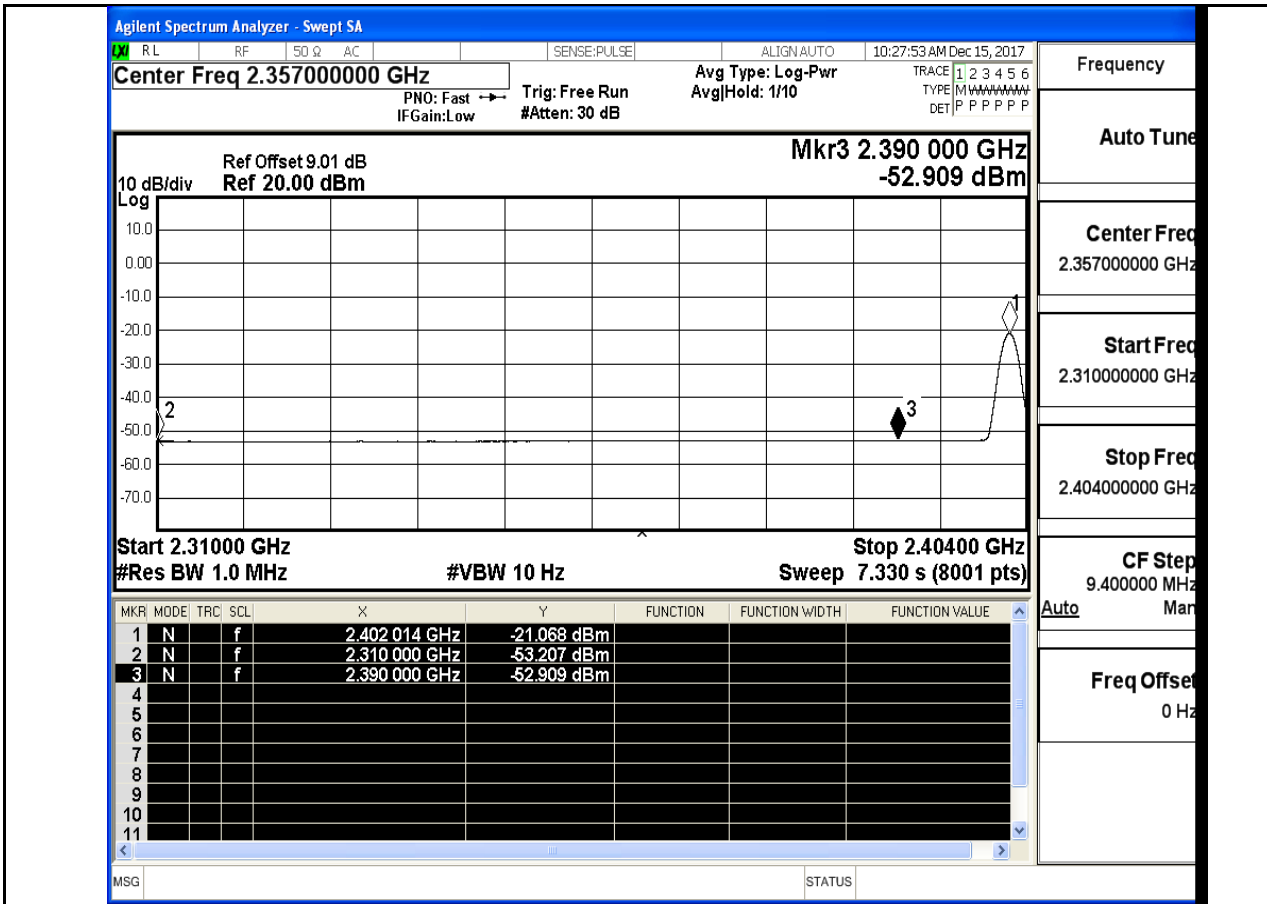
B.6.Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
BLE	2402	Ant1	2310.0	-43.05	2	0	54.20	PEAK	74	PASS
BLE	2402	Ant1	2310.0	-53.21	2	0	44.05	AV	54	PASS
BLE	2402	Ant1	2390.0	-42.48	2	0	54.78	PEAK	74	PASS
BLE	2402	Ant1	2390.0	-52.91	2	0	44.35	AV	54	PASS
BLE	2480	Ant1	2483.5	-42.21	2	0	55.05	PEAK	74	PASS
BLE	2480	Ant1	2483.5	-52.65	2	0	44.61	AV	54	PASS
BLE	2480	Ant1	2500.0	-40.46	2	0	56.80	PEAK	74	PASS
BLE	2480	Ant1	2500.0	-52.56	2	0	44.70	AV	54	PASS

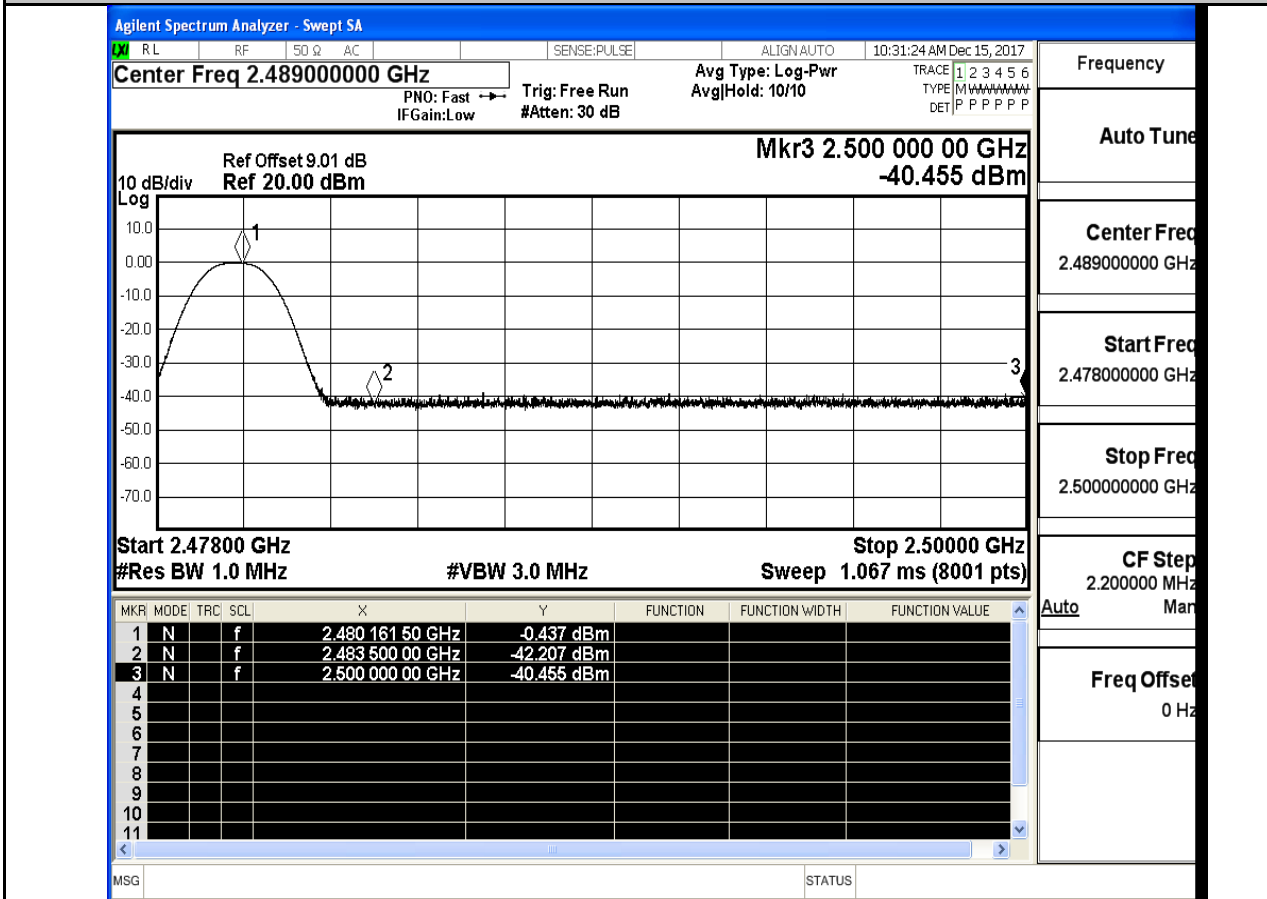
Restrict-band band-edge measurements_BLE_2402_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2402_Ant1_AV



Restrict-band band-edge measurements_BLE_2480_Ant1_PEAK



Restrict-band band-edge measurements_BLE_2480_Ant1_AV

