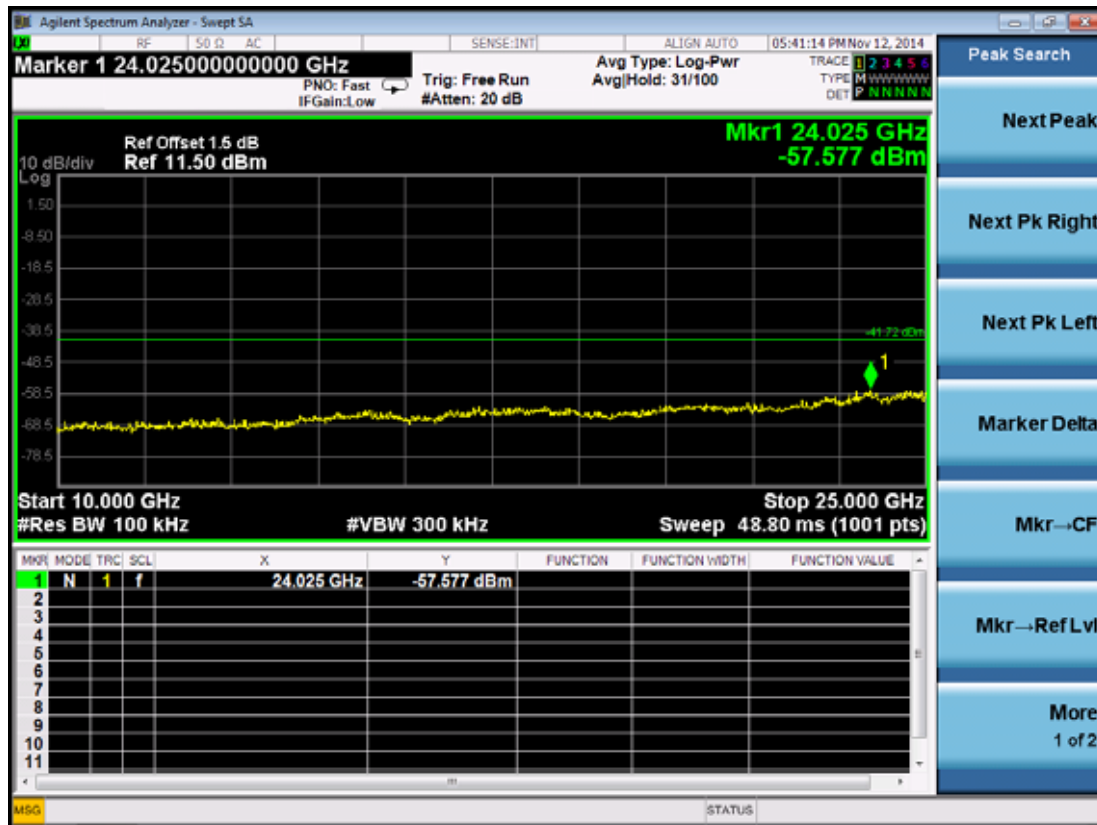
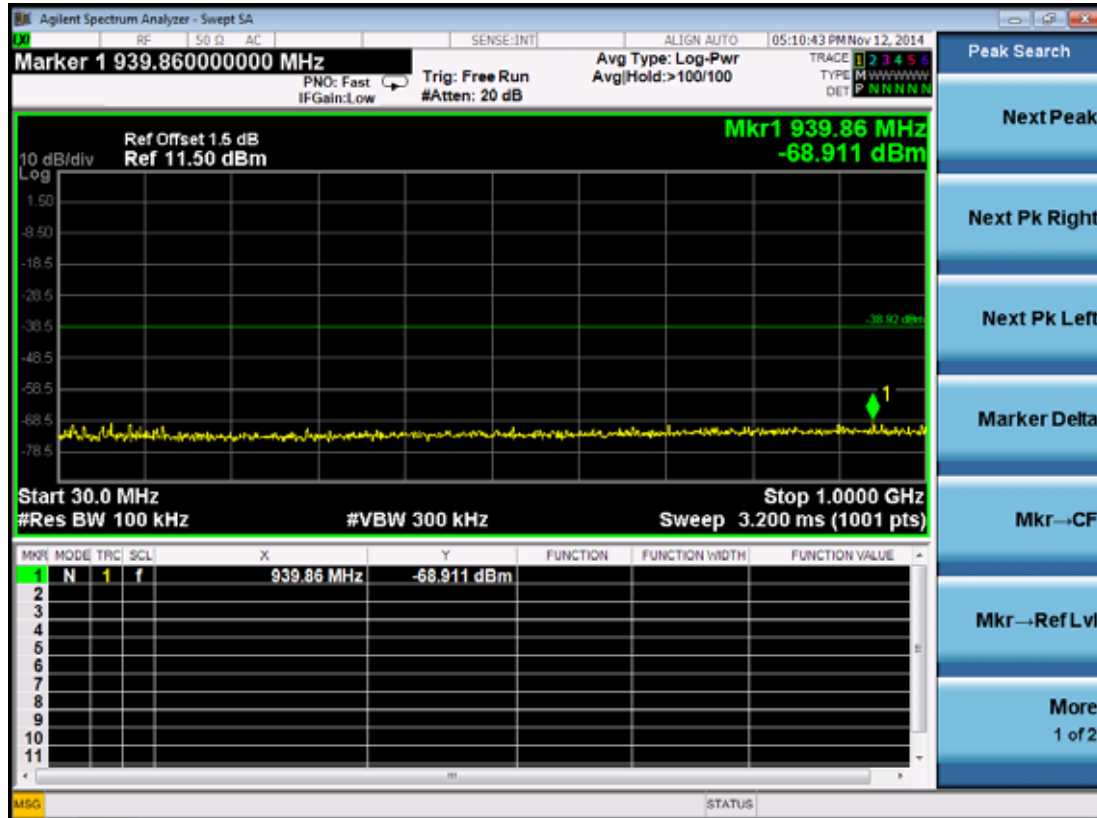
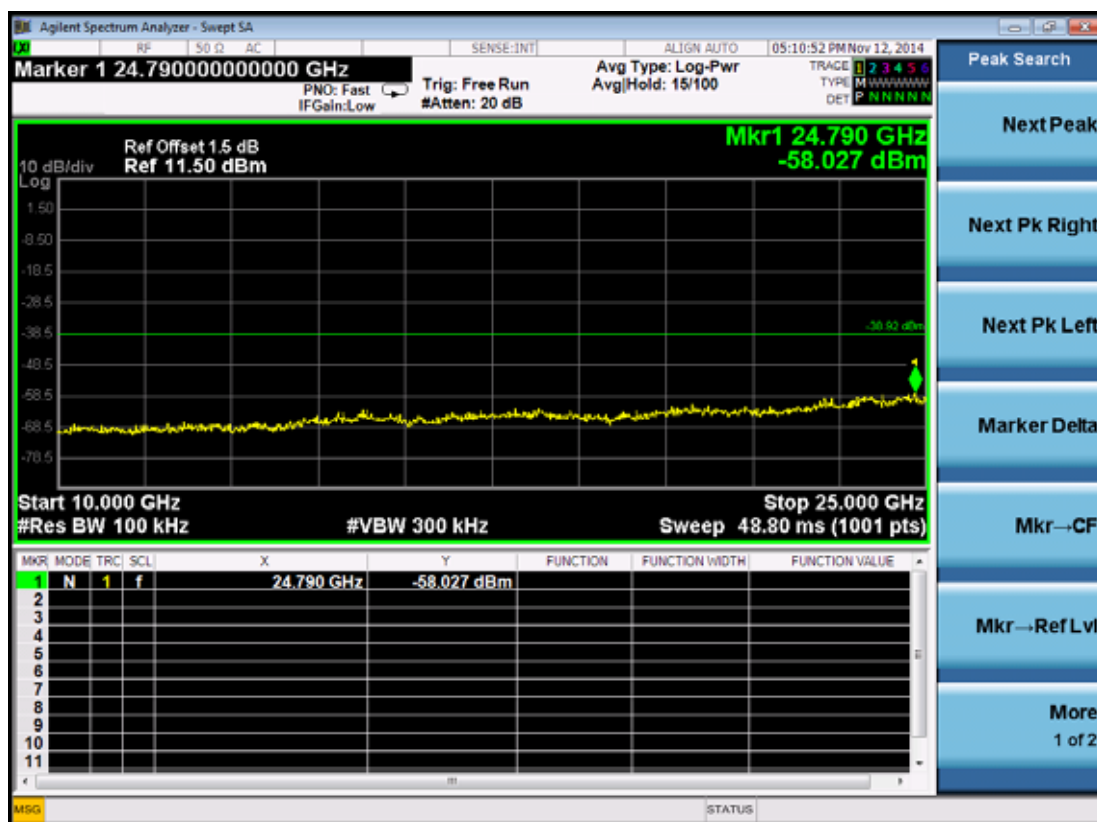
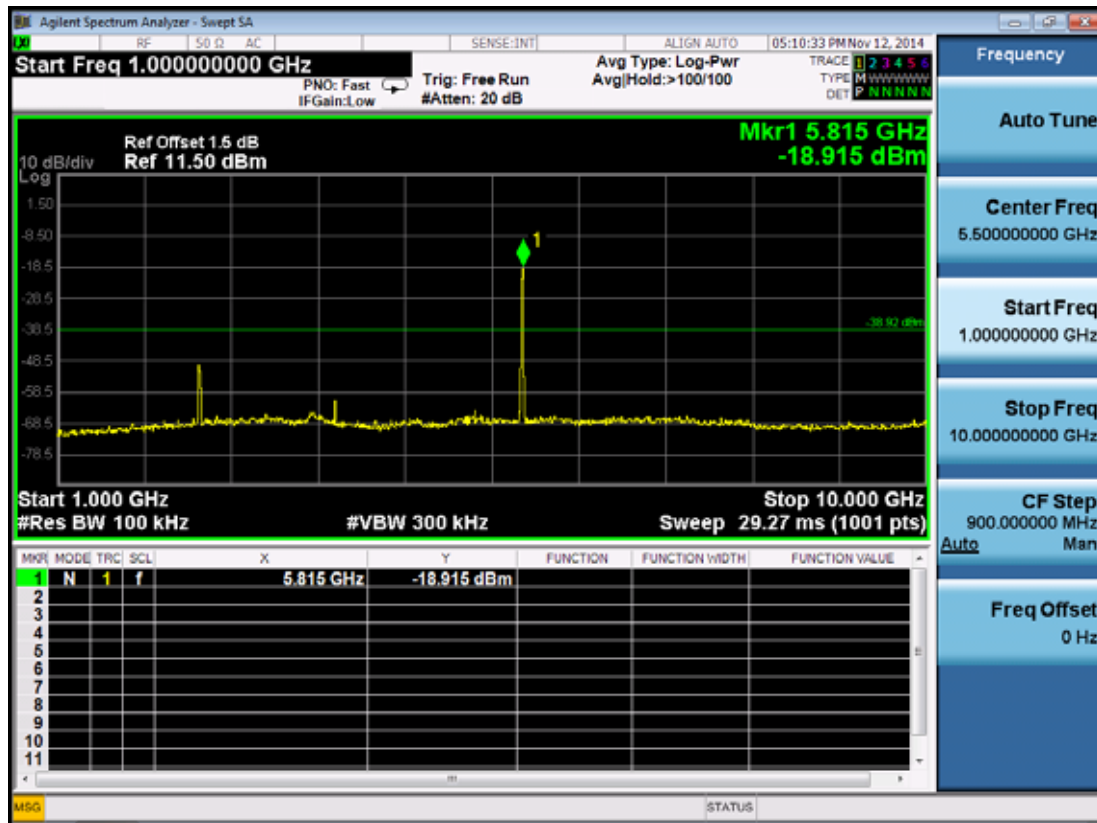
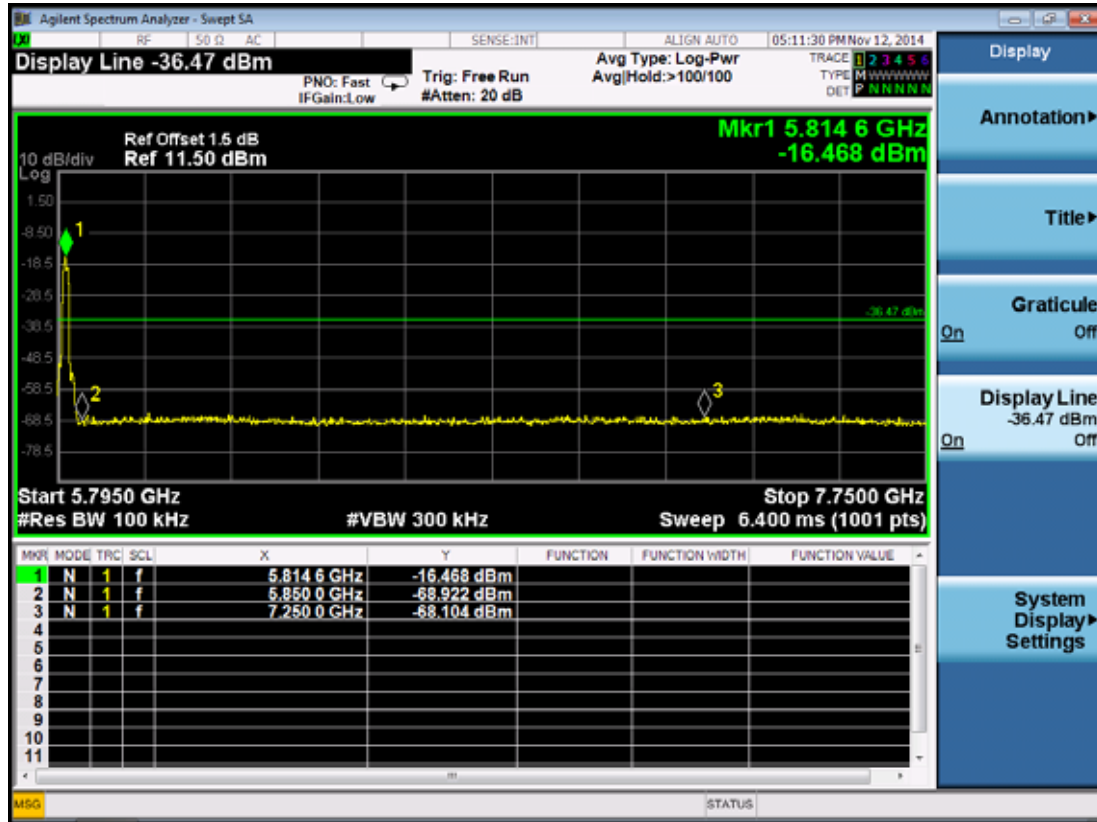




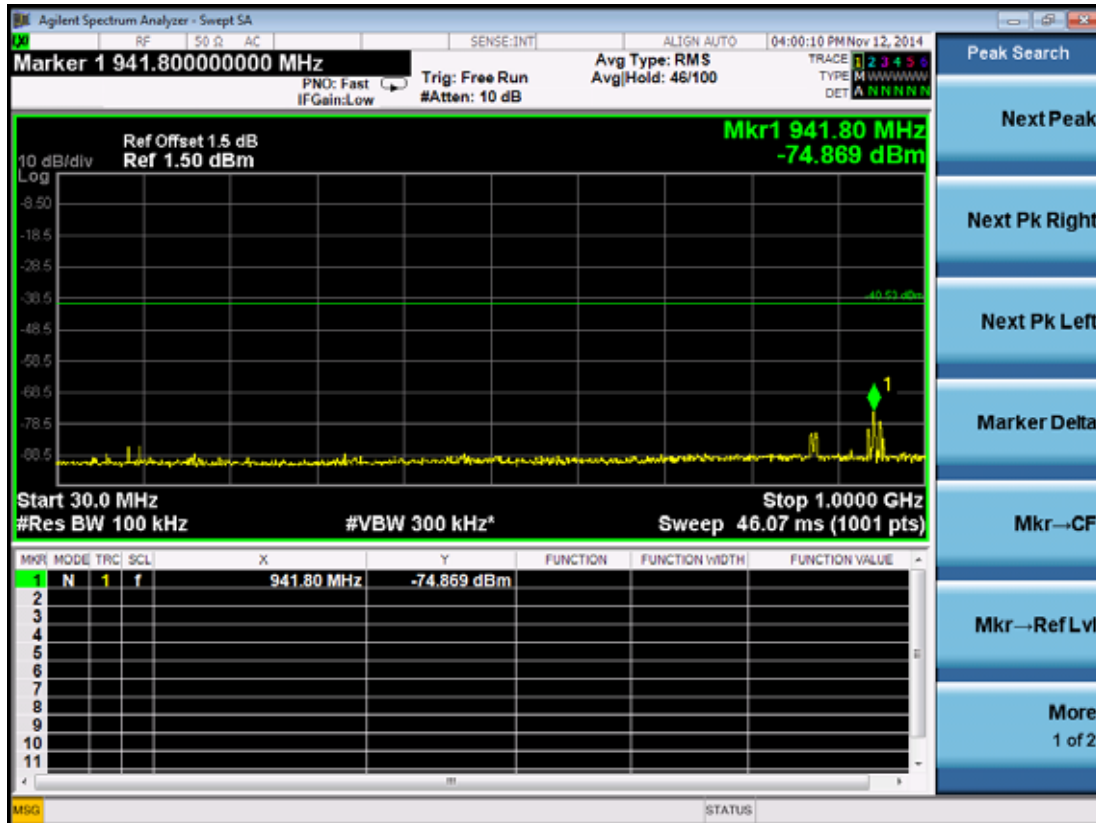
5814MHz

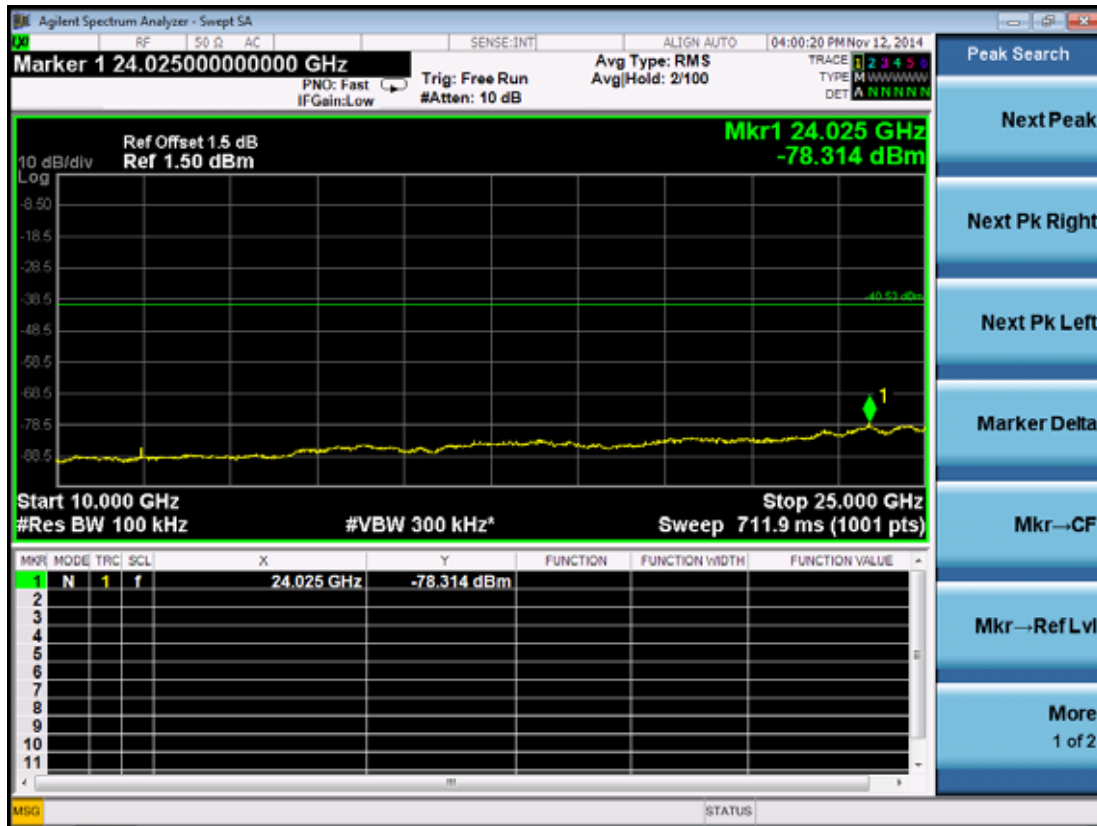
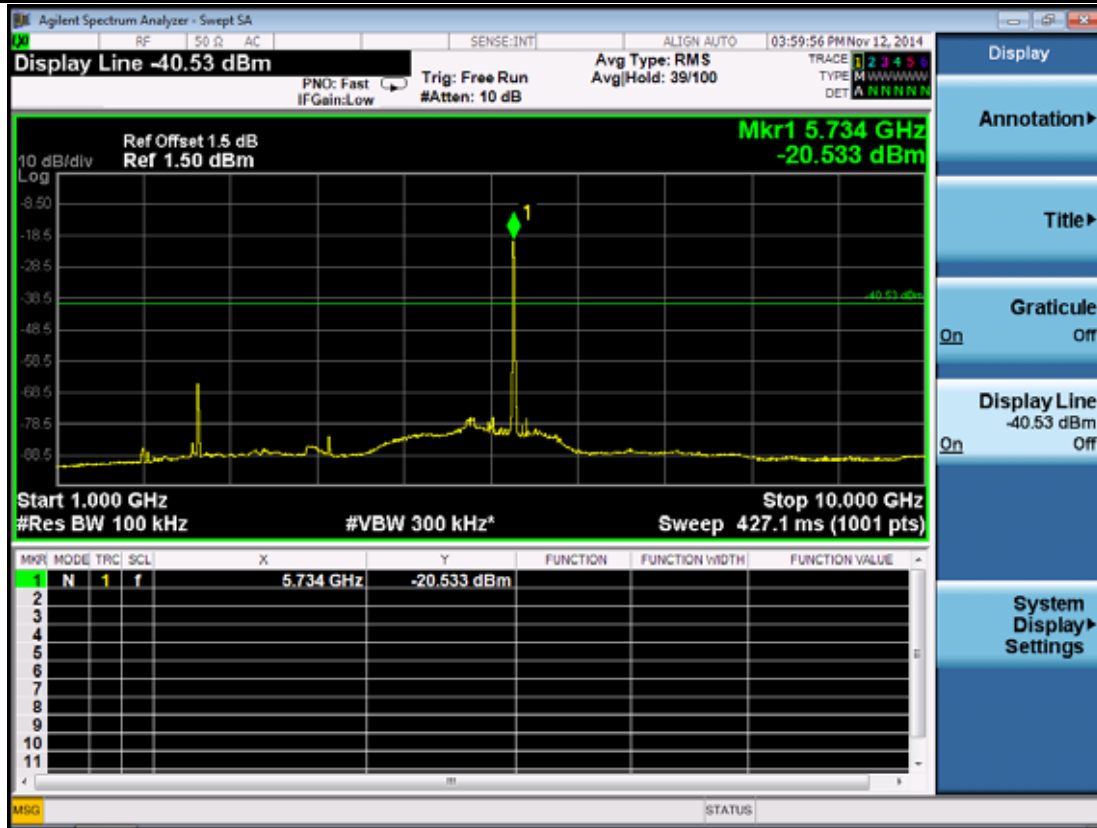


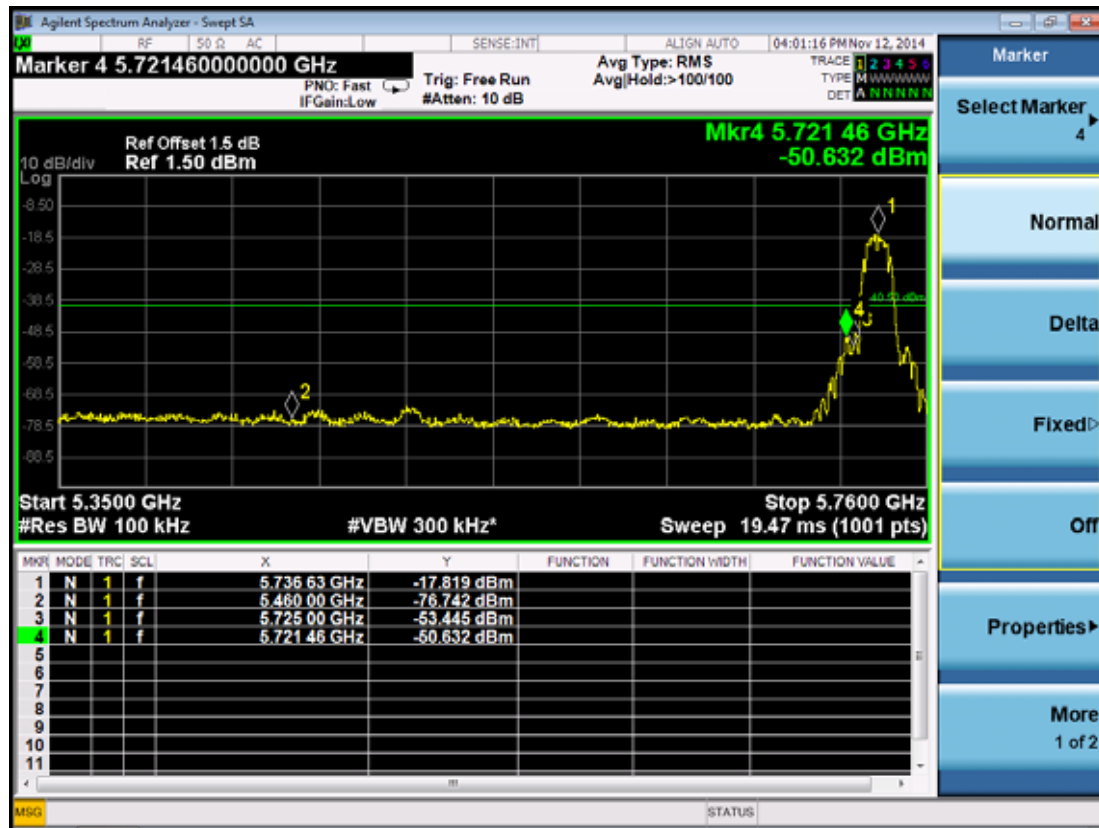




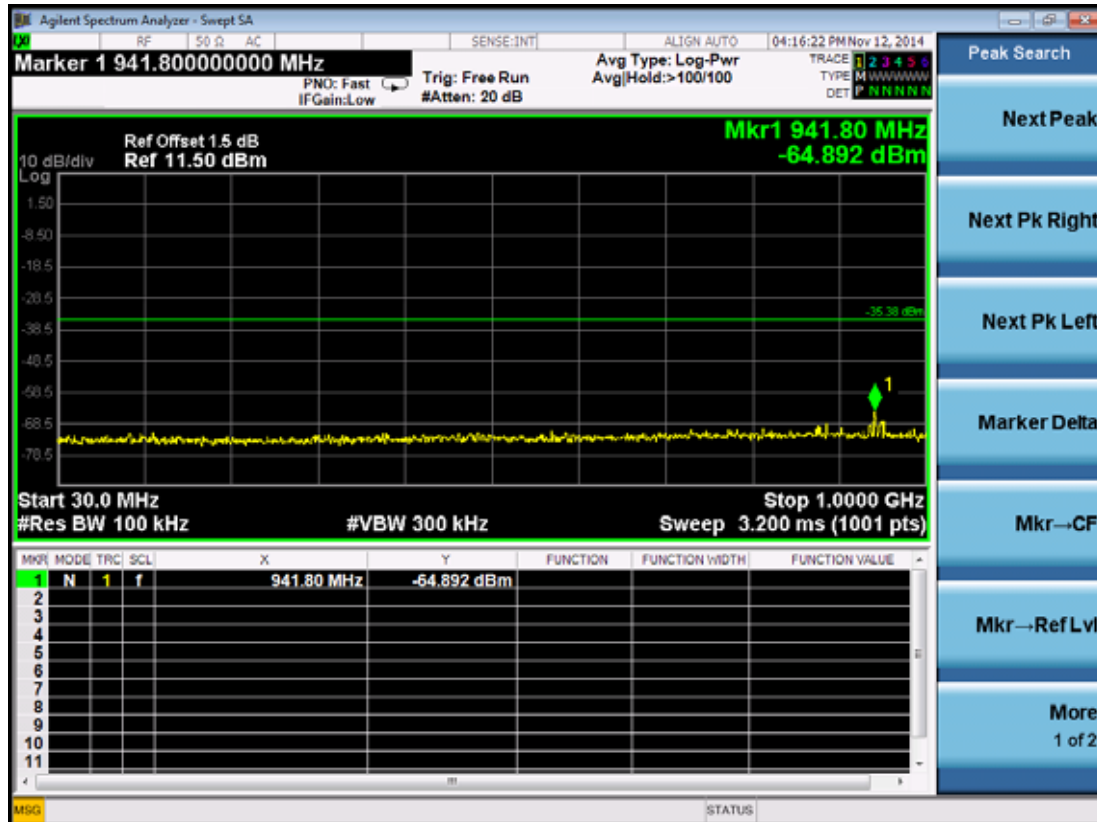
ANT 1:
5736MHz

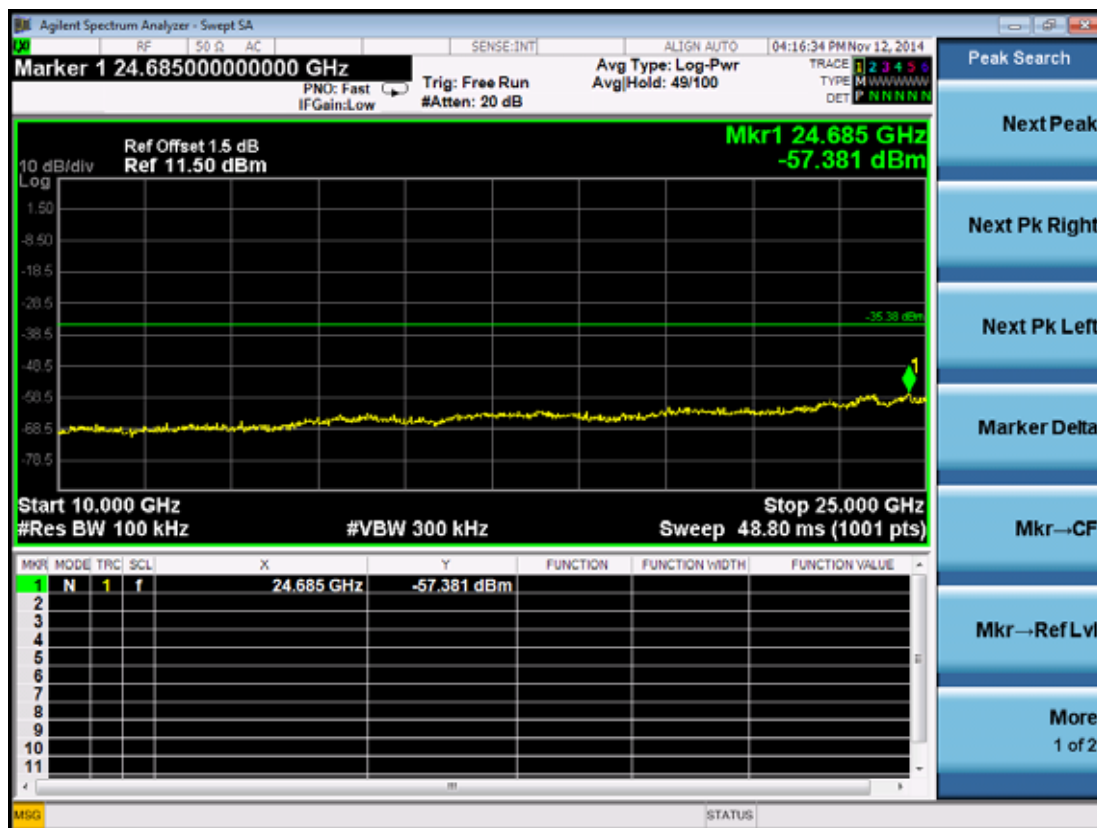
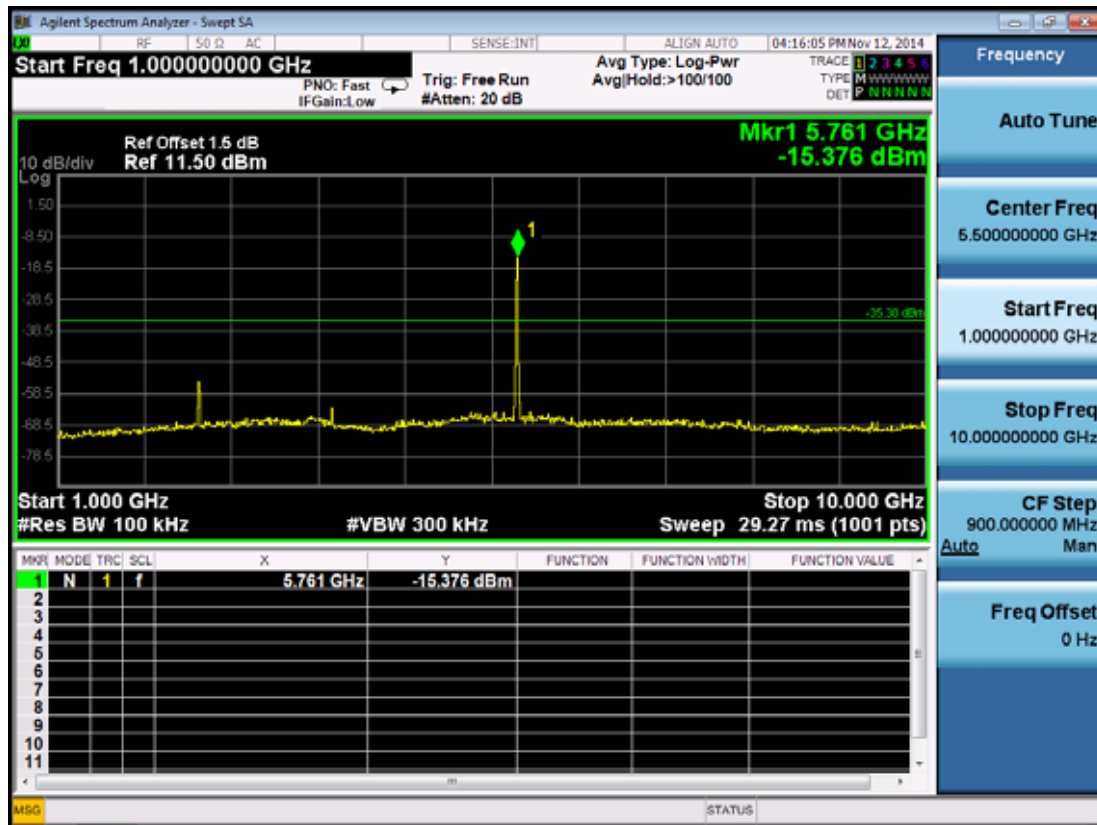




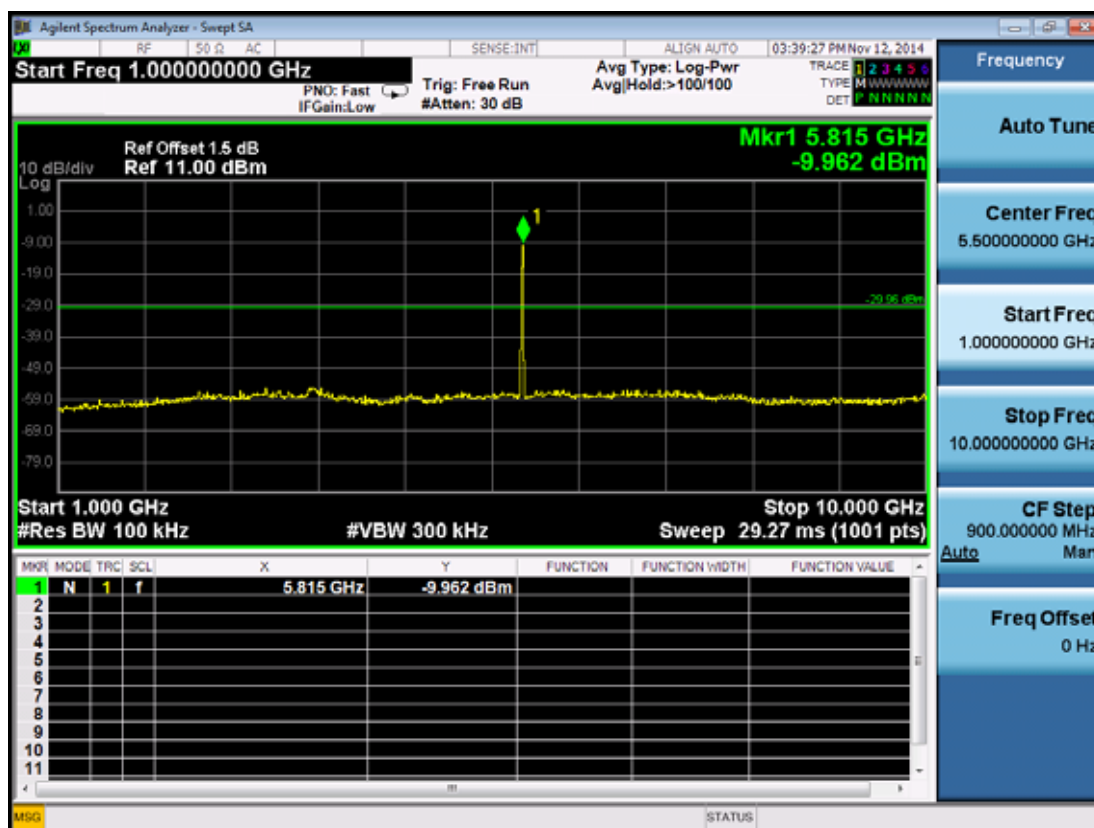
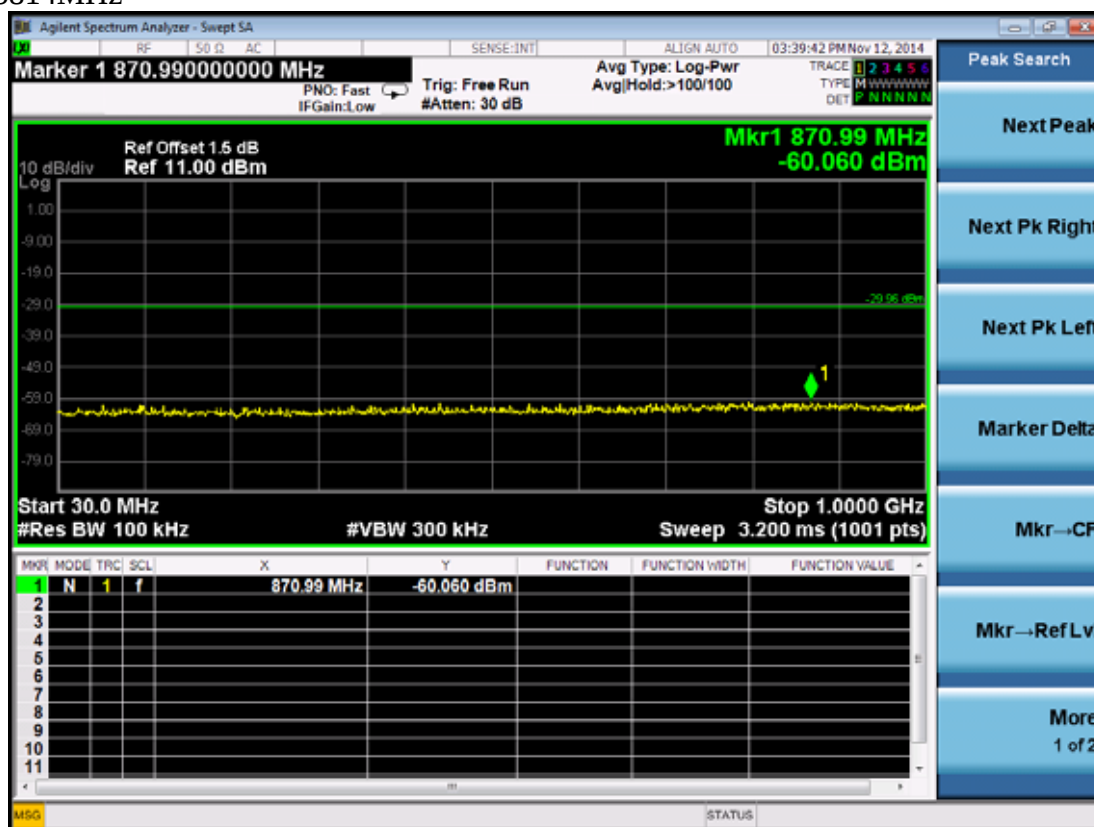


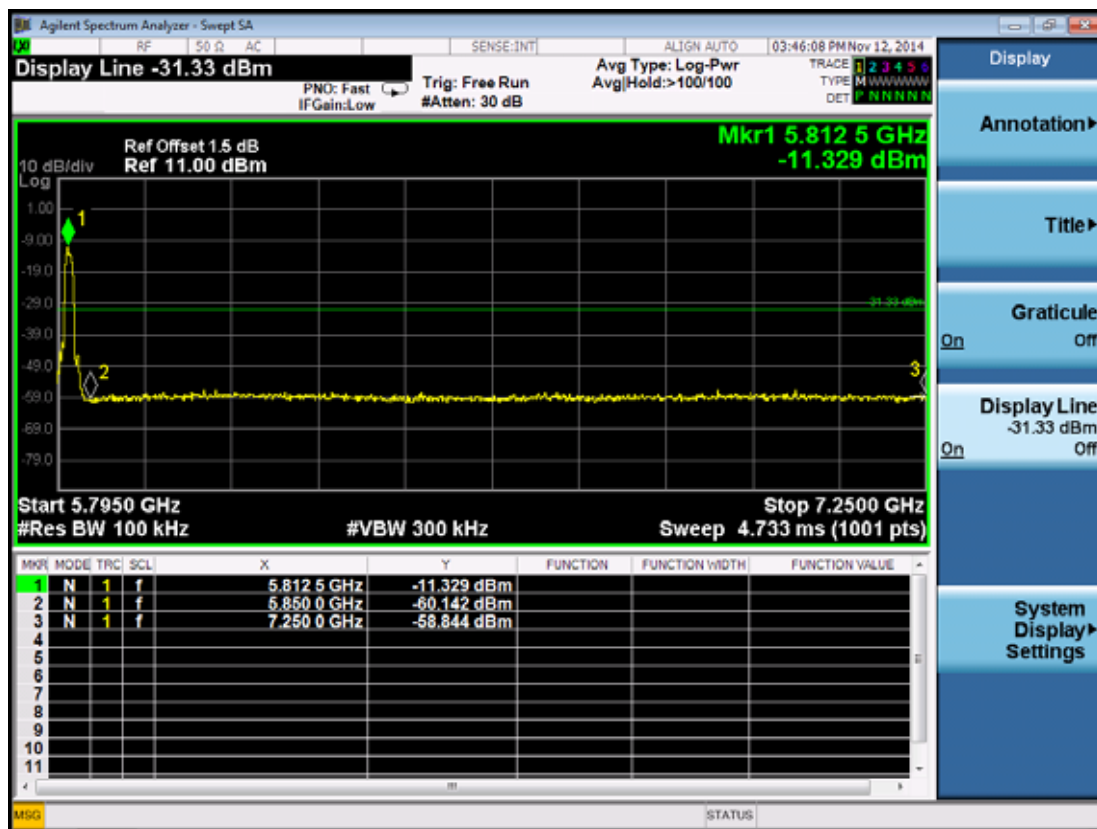
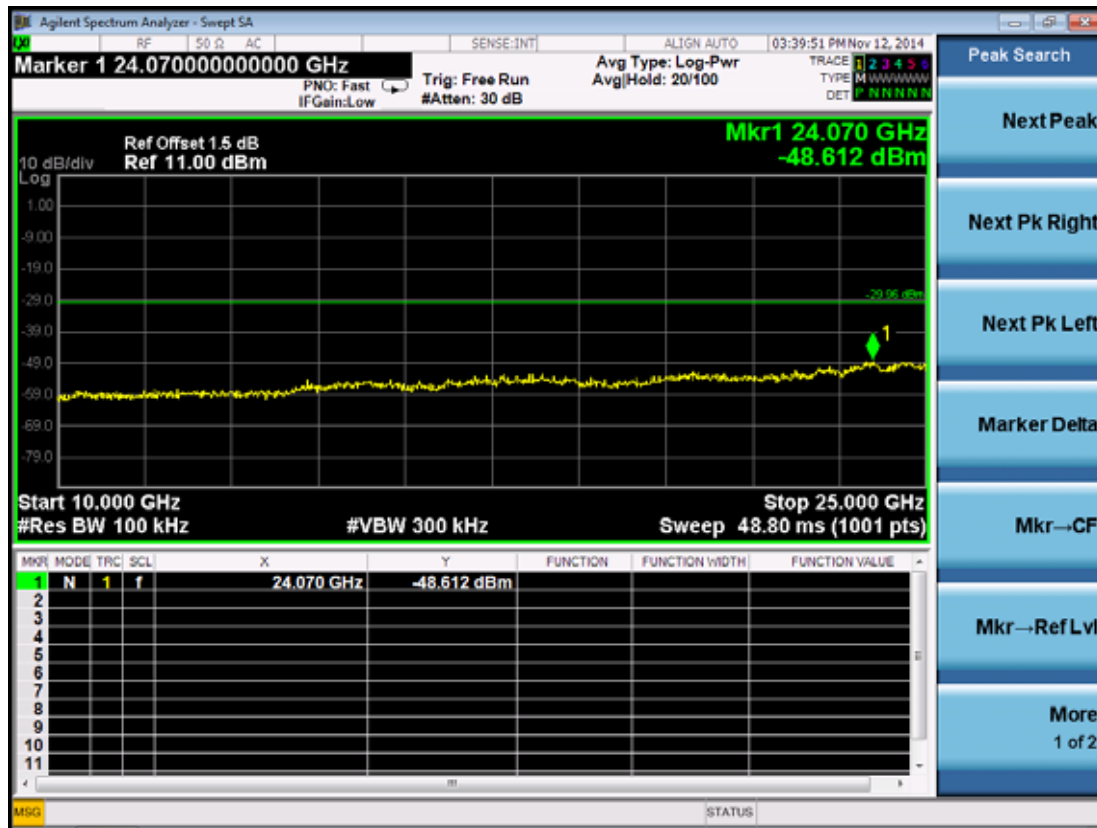
5762MHz





5814MHz





6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Amp	HP	8449B	3008A02495	Apr. 28,14	1 Year
2.	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
3.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 28,14	1 Year
4.	RF Cable	Hubersuhner	Sucoflex102	28610/2	Apr. 28,14	1 Year

6.2. Limit

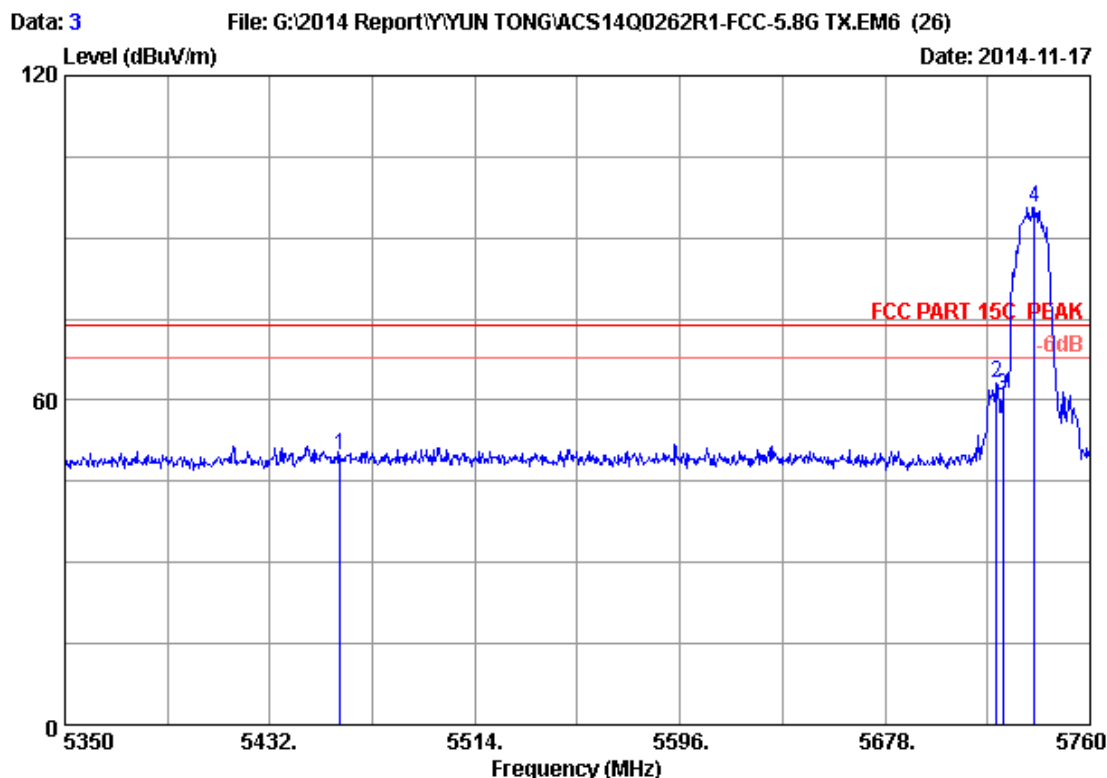
All the lower and upper band-edges emissions appearing within 5.35-5.46GHz and 7.25-7.75GHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 5725MHz to 5850MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4. Test Results

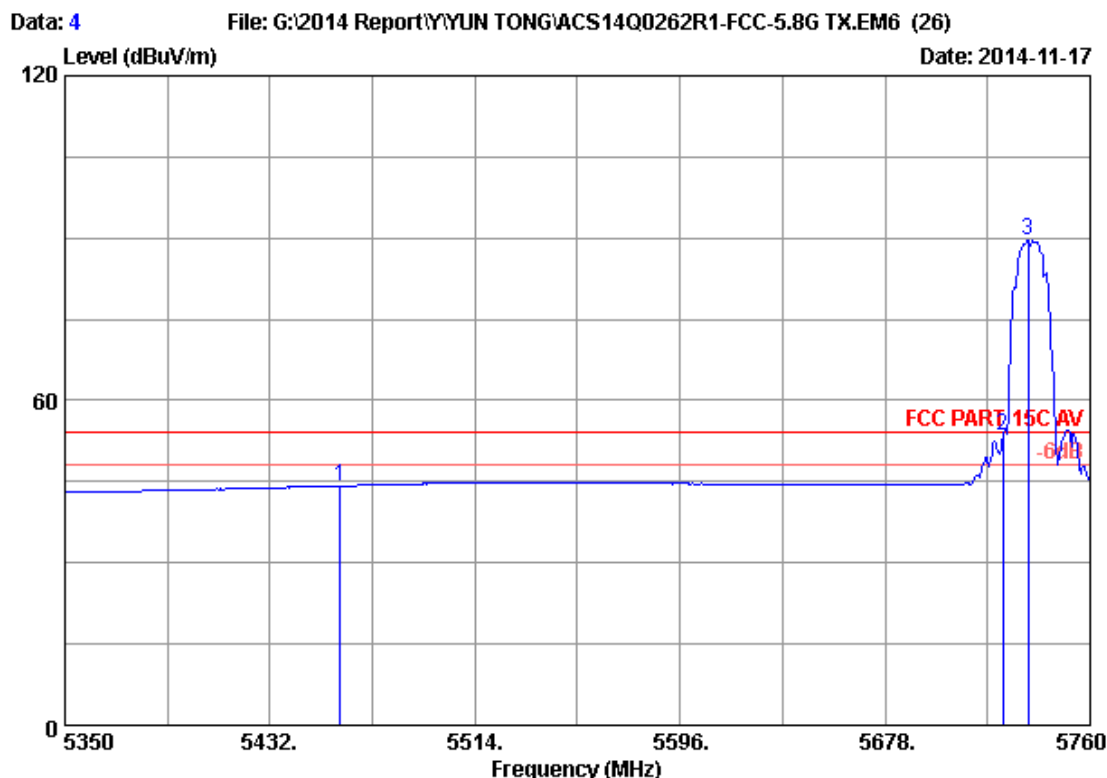
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Kobe
EUT : Soundbar with W-TX
Power rating : AC 120V/60 Hz
Test Mode : 11a 5736 MHz
M/N : SLIM-PWR-44

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	42.40	49.89	74.00	24.11	Peak
2	5722.690	34.09	9.52	35.70	55.11	63.02	74.00	10.98	Peak
3	5725.000	34.09	9.52	35.70	53.05	60.96	74.00	13.04	Peak
4	5737.860	34.10	9.54	35.70	87.81	95.75	74.00	-21.75	Peak

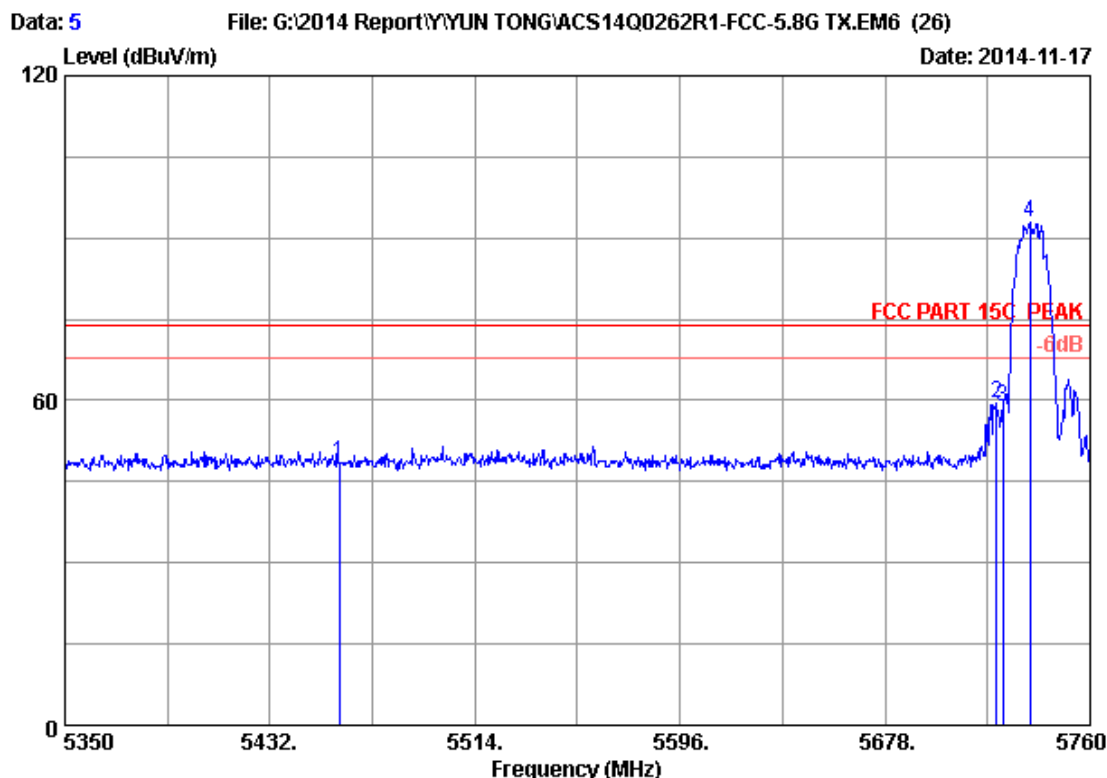
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Kobe
 EUT : Soundbar with W-TX
 Power rating : AC 120V/60 Hz
 Test Mode : 11a 5736 MHz
 M/N : SLIM-PWR-44

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	36.73	44.22	54.00	9.78	Average
2	5725.000	34.09	9.52	35.70	45.45	53.36	54.00	0.64	Average
3	5735.400	34.09	9.54	35.70	81.81	89.74	54.00	-35.74	Average

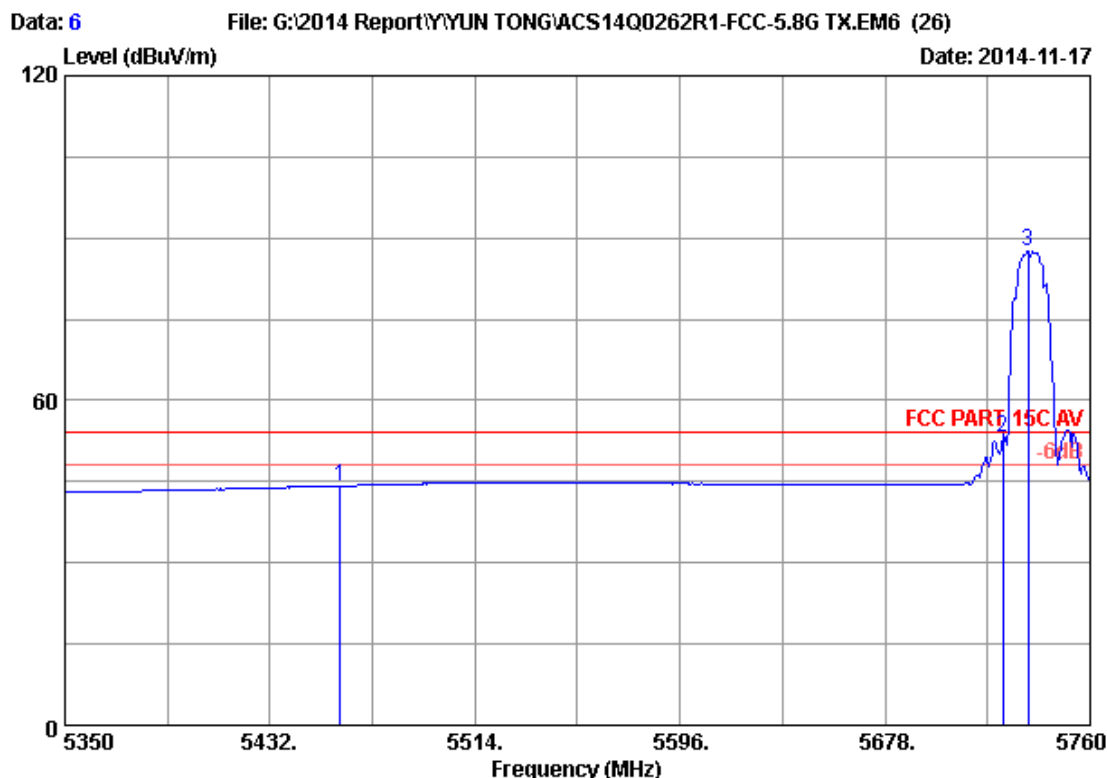
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Kobe
 EUT : Soundbar with W-TX
 Power rating : AC 120V/60 Hz
 Test Mode : 11a 5736 MHz
 M/N : SLIM-PWR-44

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5459.880	33.94	9.25	35.70	41.05	48.54	74.00	25.46	Peak
2	5722.690	34.09	9.52	35.70	51.68	59.59	74.00	14.41	Peak
3	5725.000	34.09	9.52	35.70	50.89	58.80	74.00	15.20	Peak
4	5735.810	34.09	9.54	35.70	84.94	92.87	74.00	-18.87	Peak

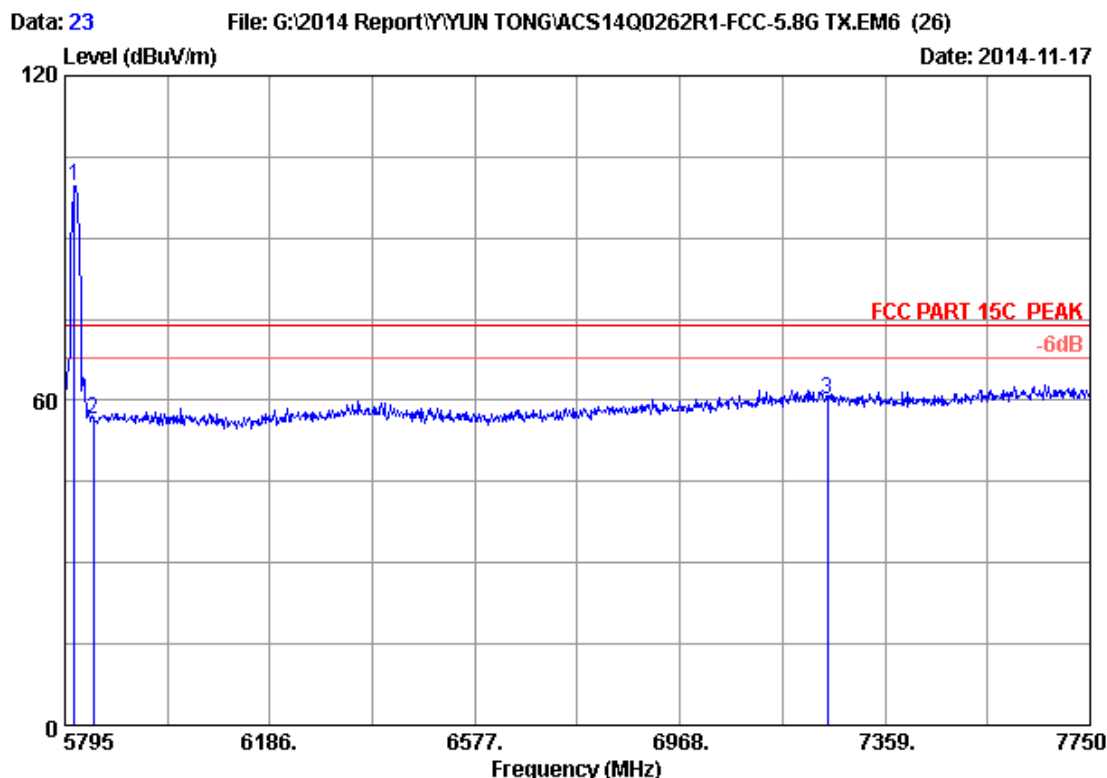
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Kobe
 EUT : Soundbar with W-TX
 Power rating : AC 120V/60 Hz
 Test Mode : 11a 5736 MHz
 M/N : SLIM-PWR-44

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	36.73	44.22	54.00	9.78	Average
2	5725.000	34.09	9.52	35.70	45.10	53.01	54.00	0.99	Average
3	5735.400	34.09	9.54	35.70	79.81	87.74	54.00	-33.74	Average

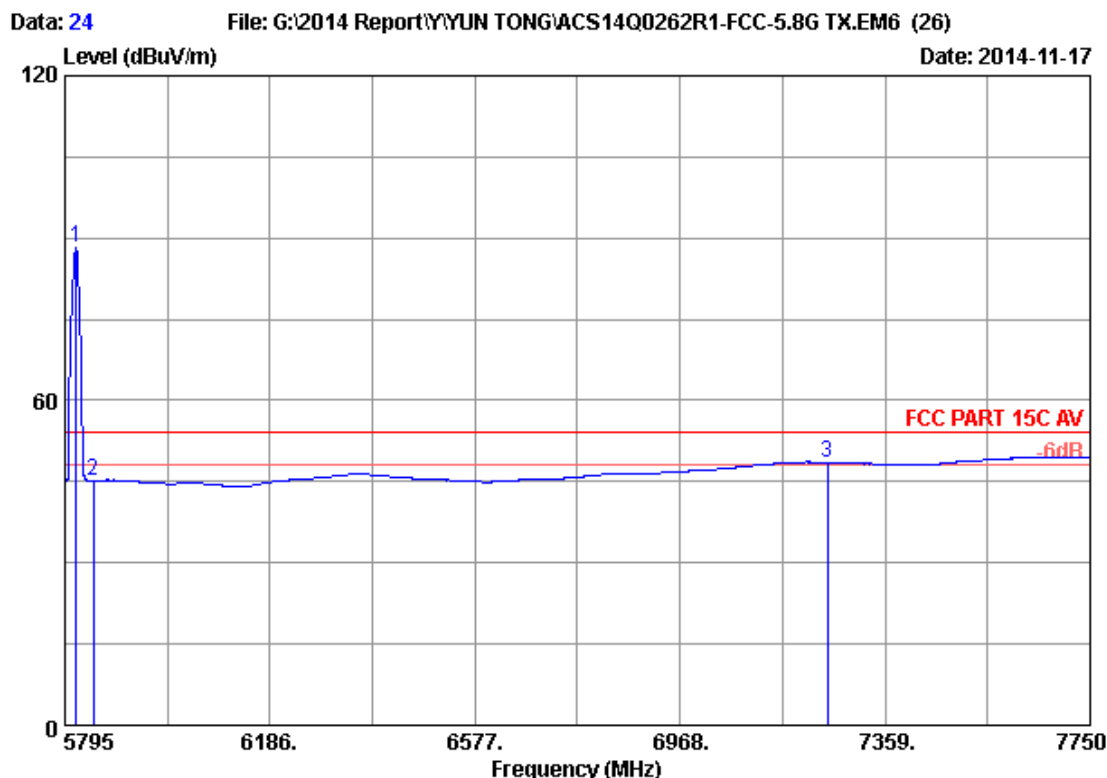
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Kobe
 EUT : Soundbar with W-TX
 Power rating : AC 120V/60 Hz
 Test Mode : 11a 5814 MHz
 M/N : SLIM-PWR-44

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			
						Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5812.595	34.13	9.62	35.70	91.69	99.74	74.00	-25.74	Peak
2	5850.000	34.14	9.66	35.70	48.53	56.63	74.00	17.37	Peak
3	7250.000	36.05	10.99	35.45	48.65	60.24	74.00	13.76	Peak

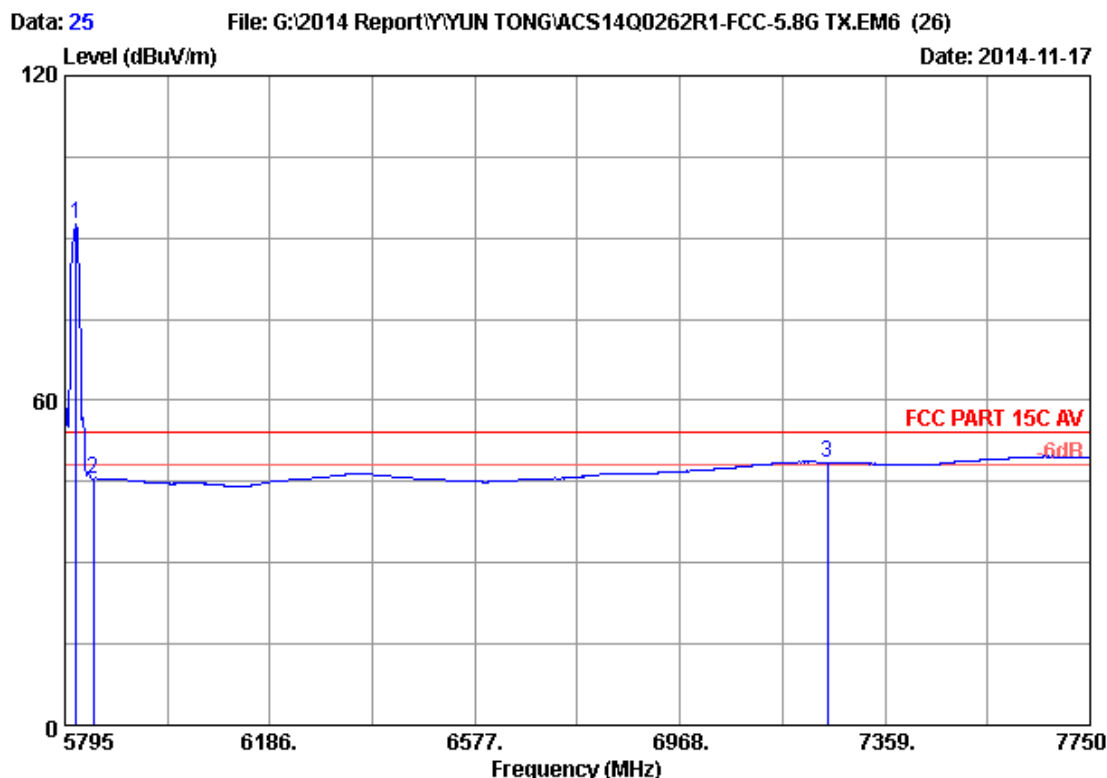
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Kobe
 EUT : Soundbar with W-TX
 Power rating : AC 120V/60 Hz
 Test Mode : 11a 5814 MHz
 M/N : SLIM-PWR-44

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5816.170	34.13	9.62	35.70	80.10	88.15	54.00	-34.15	Average
2	5850.000	34.14	9.66	35.70	37.13	45.23	54.00	8.77	Average
3	7250.000	36.05	10.99	35.45	36.90	48.49	54.00	5.51	Average

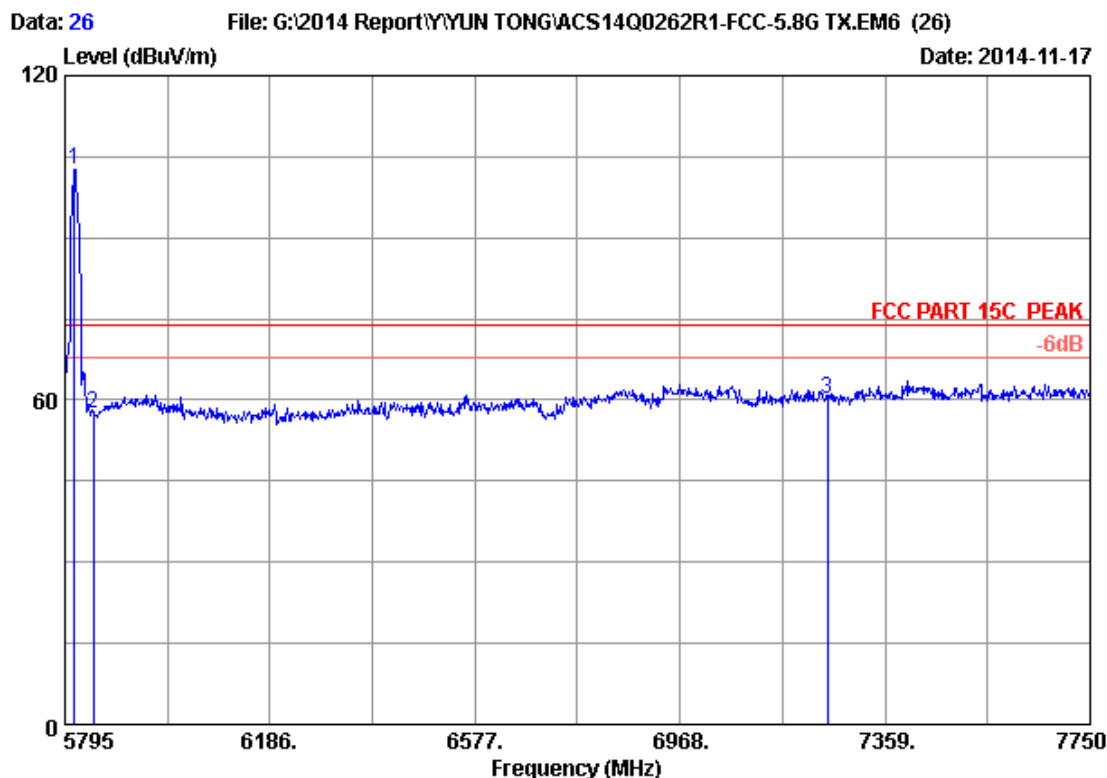
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Kobe
 EUT : Soundbar with W-TX
 Power rating : AC 120V/60 Hz
 Test Mode : 11a 5814 MHz
 M/N : SLIM-PWR-44

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5816.505	34.13	9.62	35.70	84.71	92.76	54.00	-38.76	Average
2	5850.000	34.14	9.66	35.70	37.47	45.57	54.00	8.43	Average
3	7250.000	36.05	10.99	35.45	36.95	48.54	54.00	5.46	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Kobe
 EUT : Soundbar with W-TX
 Power rating : AC 120V/60 Hz
 Test Mode : 11a 5814 MHz
 M/N : SLIM-PWR-44

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5812.595	34.13	9.62	35.70	94.69	102.74	74.00	-28.74	Peak
2	5850.000	34.14	9.66	35.70	49.38	57.48	74.00	16.52	Peak
3	7250.000	36.05	10.99	35.45	48.62	60.21	74.00	13.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr. 28,14	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
3.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,14	1 Year

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

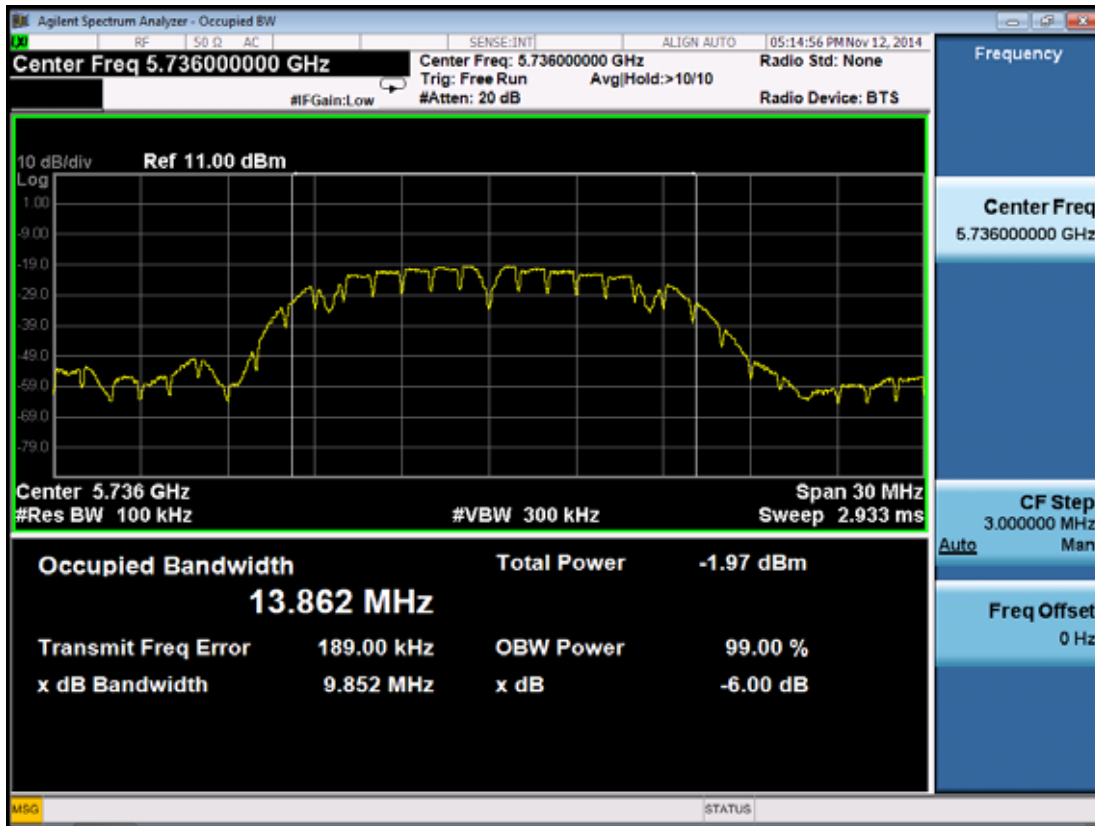
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300kHz RBW and 1MHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

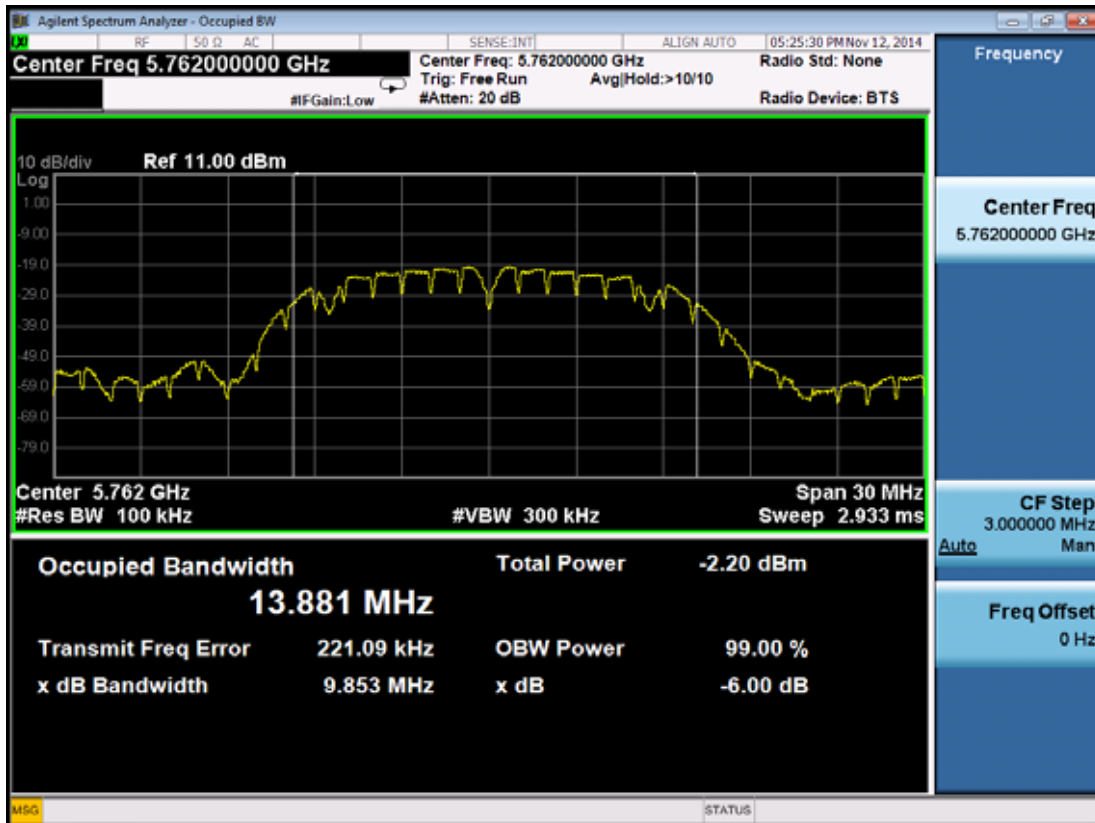
EUT: Soundbar with W-TX		
M/N: SLIM-PWR-44		
Test date:2014-11-15	Test date:2014-11-15	Test date:2014-11-15
Tested by:Kobe_Huang	Tested by:Kobe_Huang	Tested by:Kobe_Huang

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	CH (MHz)	6dB bandwidth (MHz)		Limit (KHz)
		ANTA	ANTB	
Tx	5736	9.852	9.845	>500
	5762	9.853	11.10	>500
	5814	9.853	9.560	>500
Conclusion : PASS				

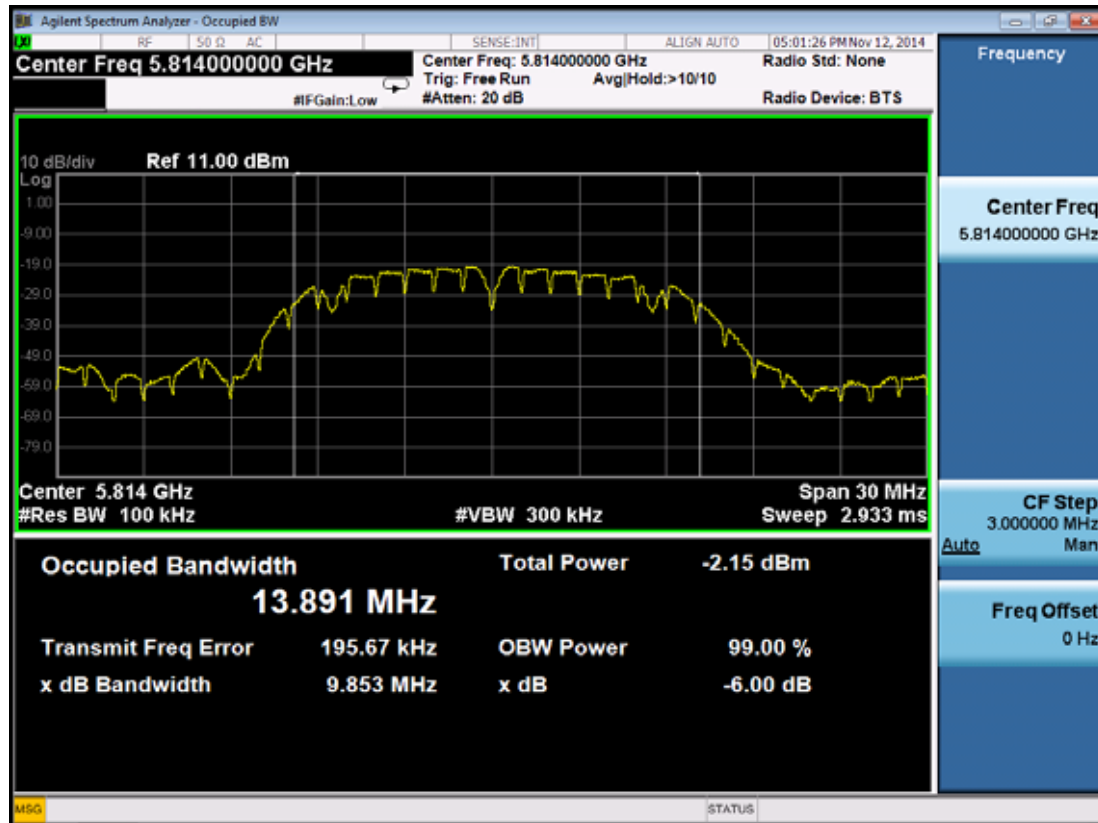
ANT 0:
5736MHz



5762MHz

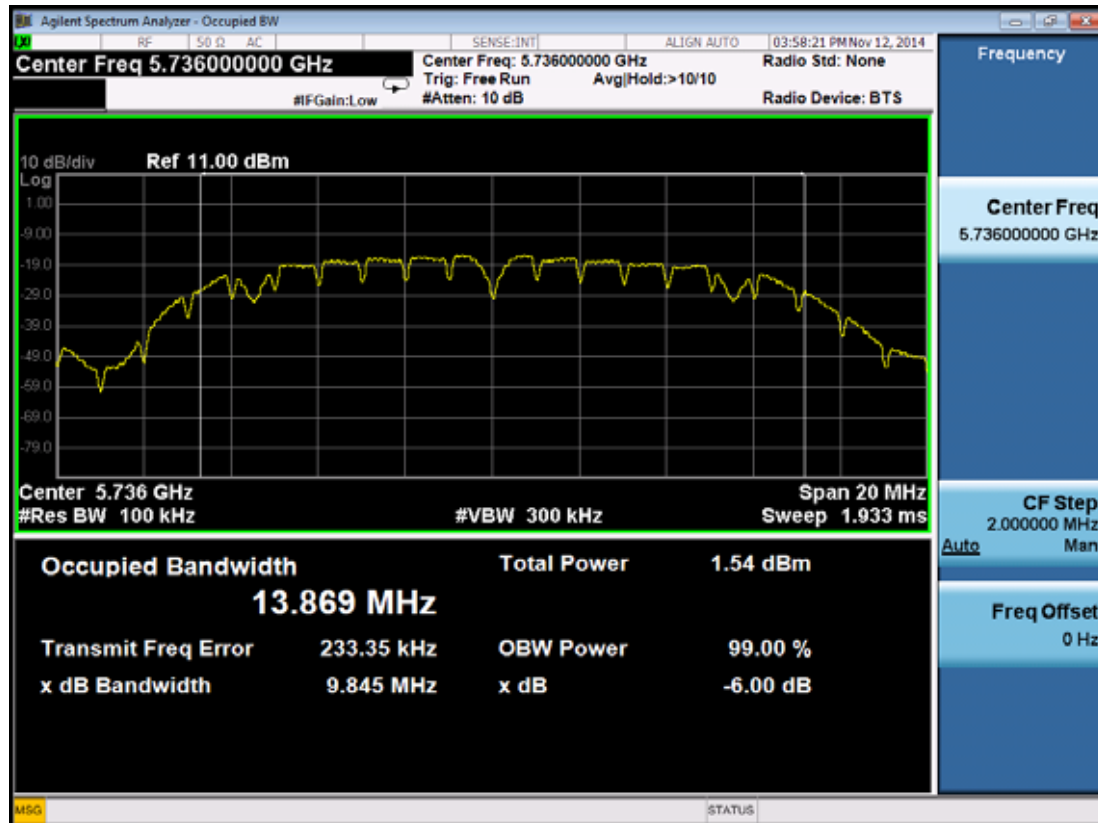


5814MHz

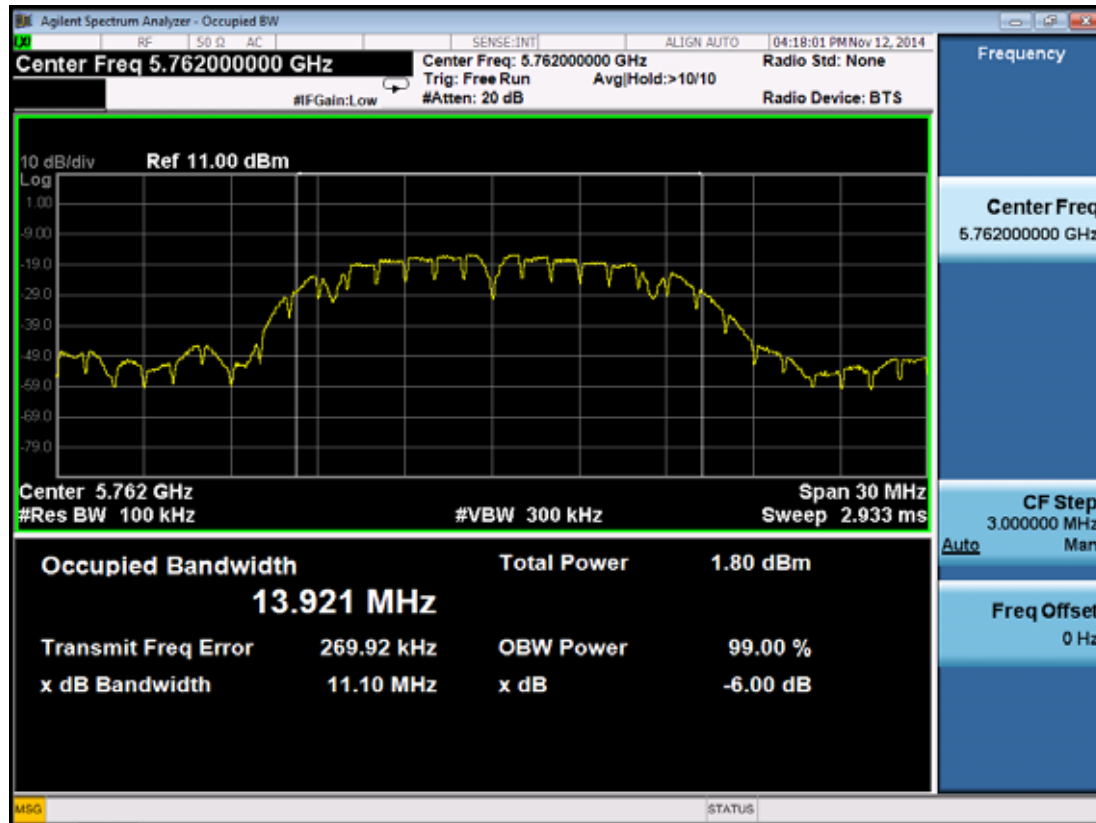


ANT 1:

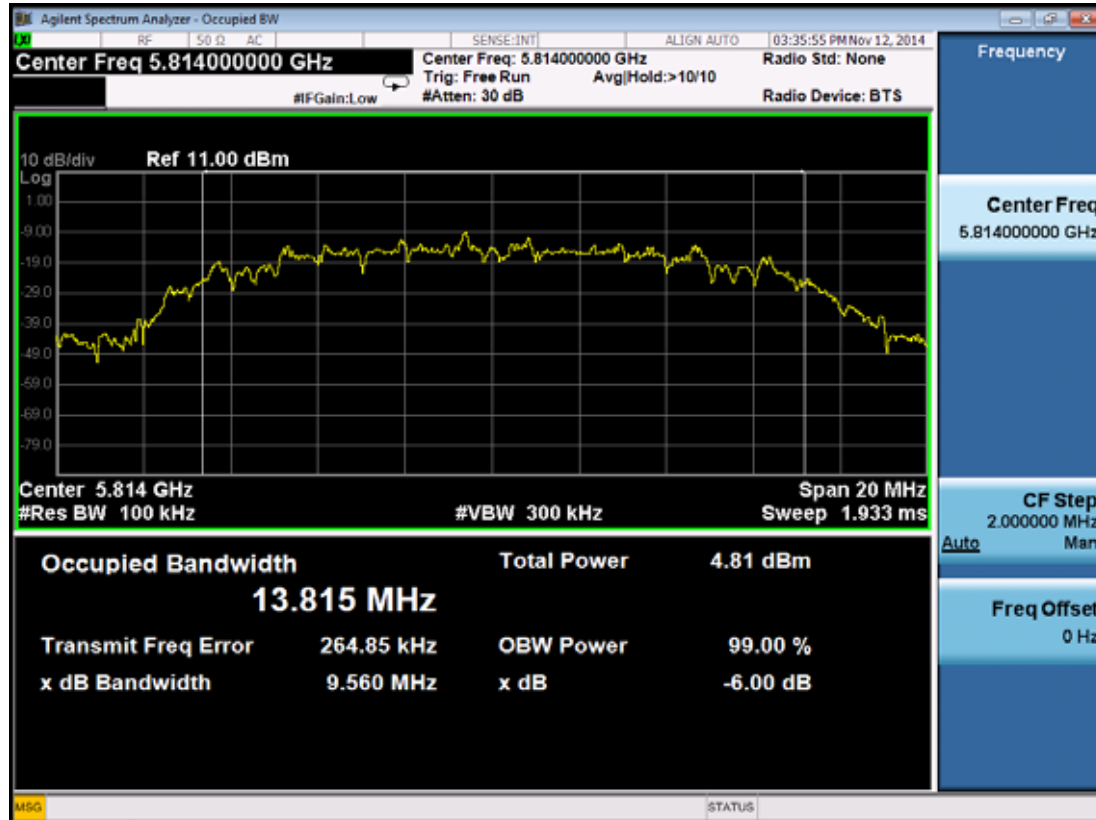
5736MHz



5762MHz



5814MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr. 28,14	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1 Year
3.	Power meter	Anritsu	ML2487A	6K00002472	Aug. 20,14	1 Year
4.	Power sensor	Anritsu	MA2491A	0033005	Aug. 20,14	1 Year
5.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr. 28,14	1 Year

8.2. Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, 5725-5850MHz, The Peak output Power shall not exceed 1W(30dBm)

8.3. Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power.

8.4. Test Results

EUT: Soundbar with W-TX				
M/N: SLIM-PWR-44				
Test date:2014-11-13		Pressure: 101.1±1.0 kpa		Humidity: 52.2±3.0%
Tested by:Kobe_Huang		Test site: RF Site		Temperature : 22.3±0.6℃
Cable loss: 1.0 dB		Attenuator loss: 20 dB		
Test Mode	CH (MHz)	Peak output Power (dBm)		Limit (dBm)
		ANTA	ANTB	
Tx	5736	5.05	5.00	30
	5762	5.92	5.33	30
	5814	5.01	5.01	30
Conclusion: PASS				

9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr. 28,14	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr. 28,14	1 Year

9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedure

1. Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
2. Set the test frequency as center frequency, Set RBW=3KHz, VBW=10KHz, Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the frequency read from produce 2 as center frequency, then set the span= 300KHz, Sweep time=Span/RBW, Then Max hold, read out each mode and each ANT's Power density.

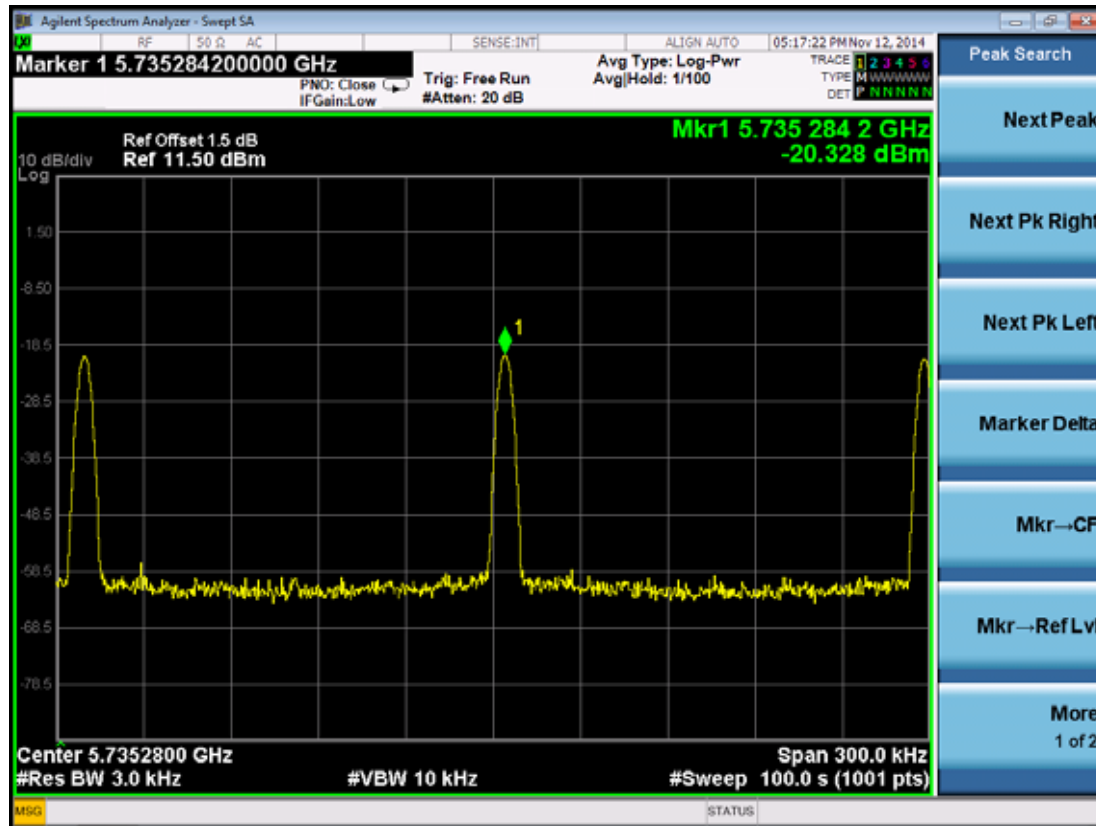
Note: The cable loss and attenuator loss were offset into measure device as an amplitude

9.4.Test Results

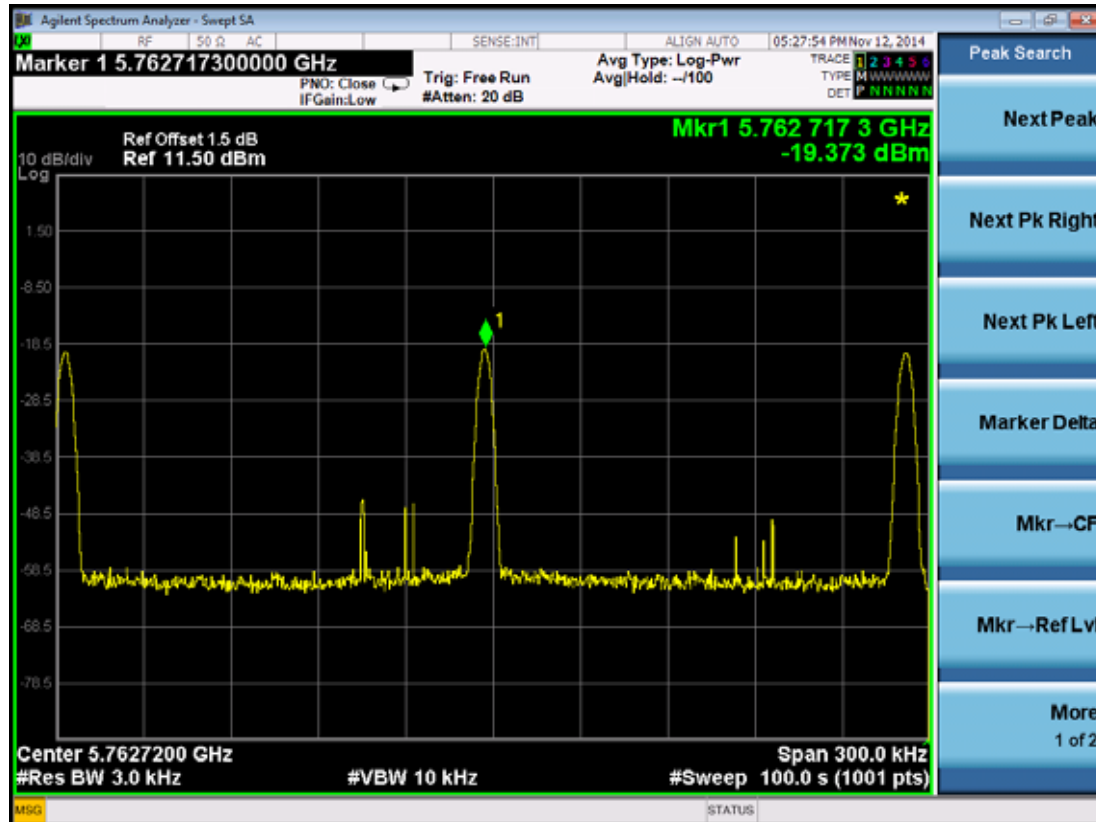
EUT: Soundbar with W-TX		
M/N: SLIM-PWR-44		
Test date: 2014-11-13	Pressure: 101.3±1.0kpa	Humidity: 51.4±3.0 %
Tested by:Kobe_Huang	Test site: RF site	Temperature: 22.5±0.6 °C

Duty cycle X: 100%				
Test Mode	CH (MHz)	Result		Limit
		(dBm/MHz)		(dBm/MHz)
Tx	5735	-20.328	-17.425	8
	5762	-19.373	-21.893	8
	5814	-27.938	-26.609	8
Conclusion: PASS				

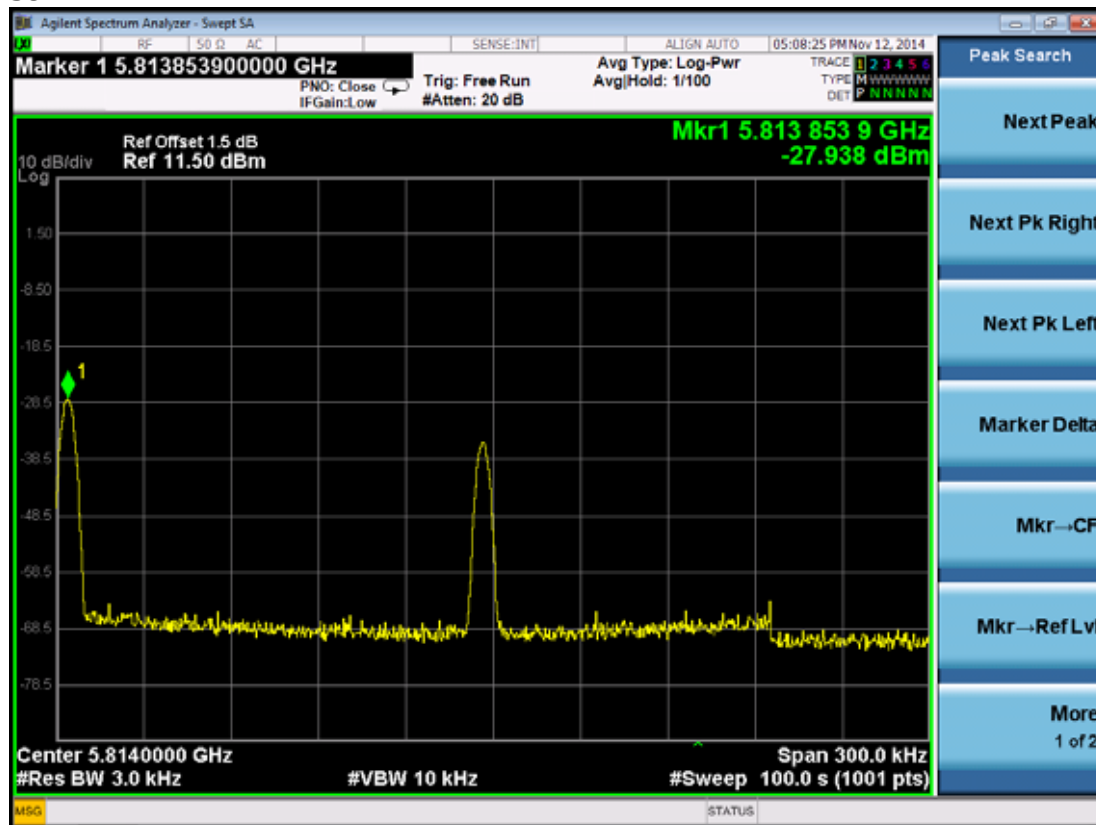
ANT 0:
5736MHz



5762MHz

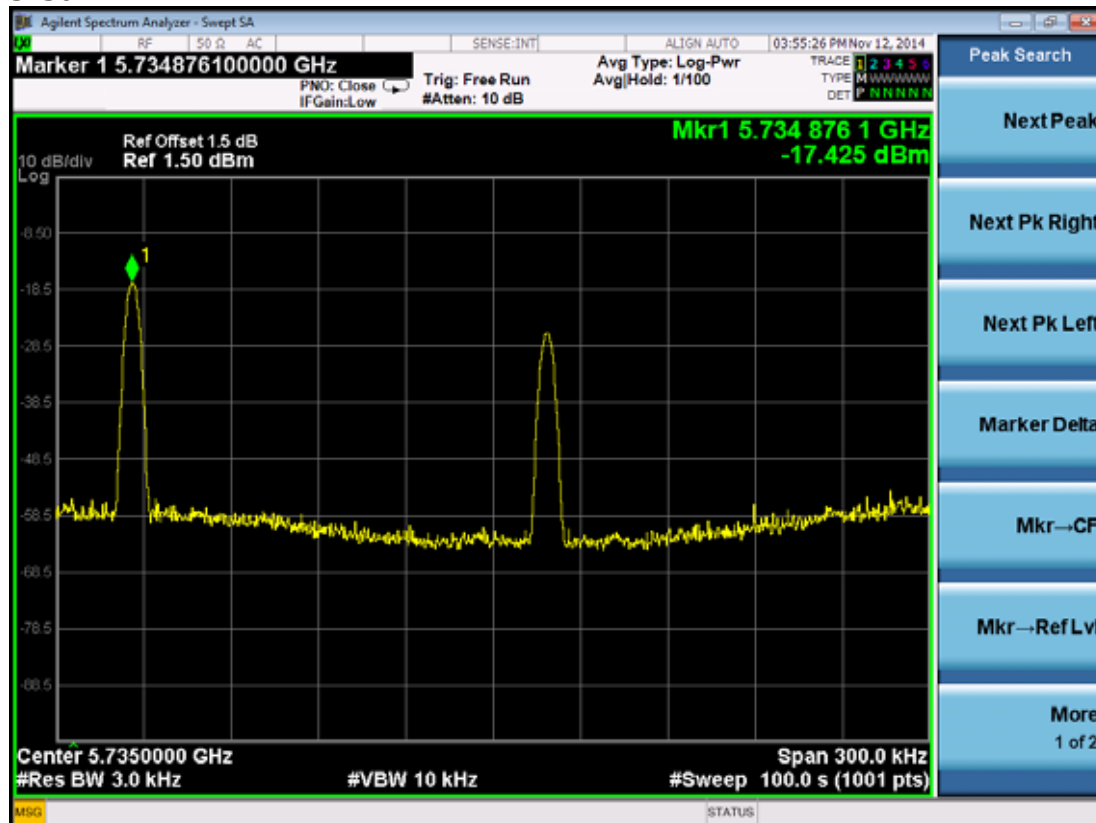


5814MHz

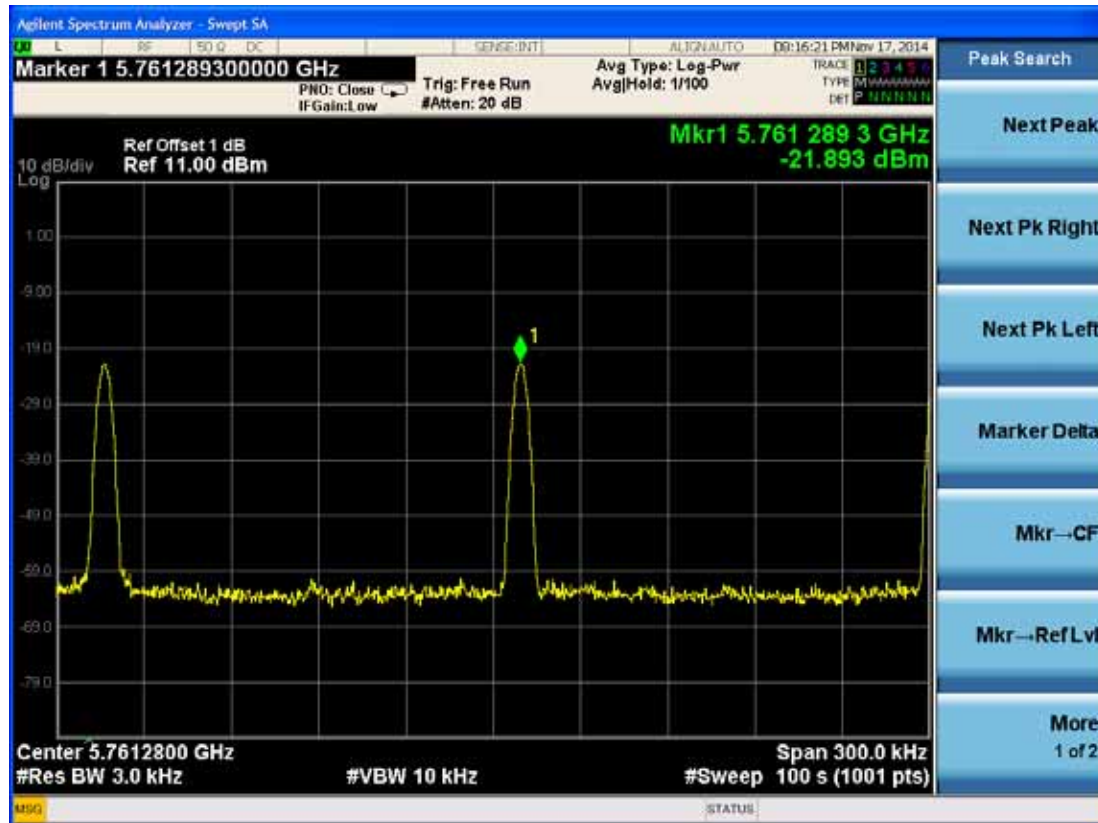


ANT 0:

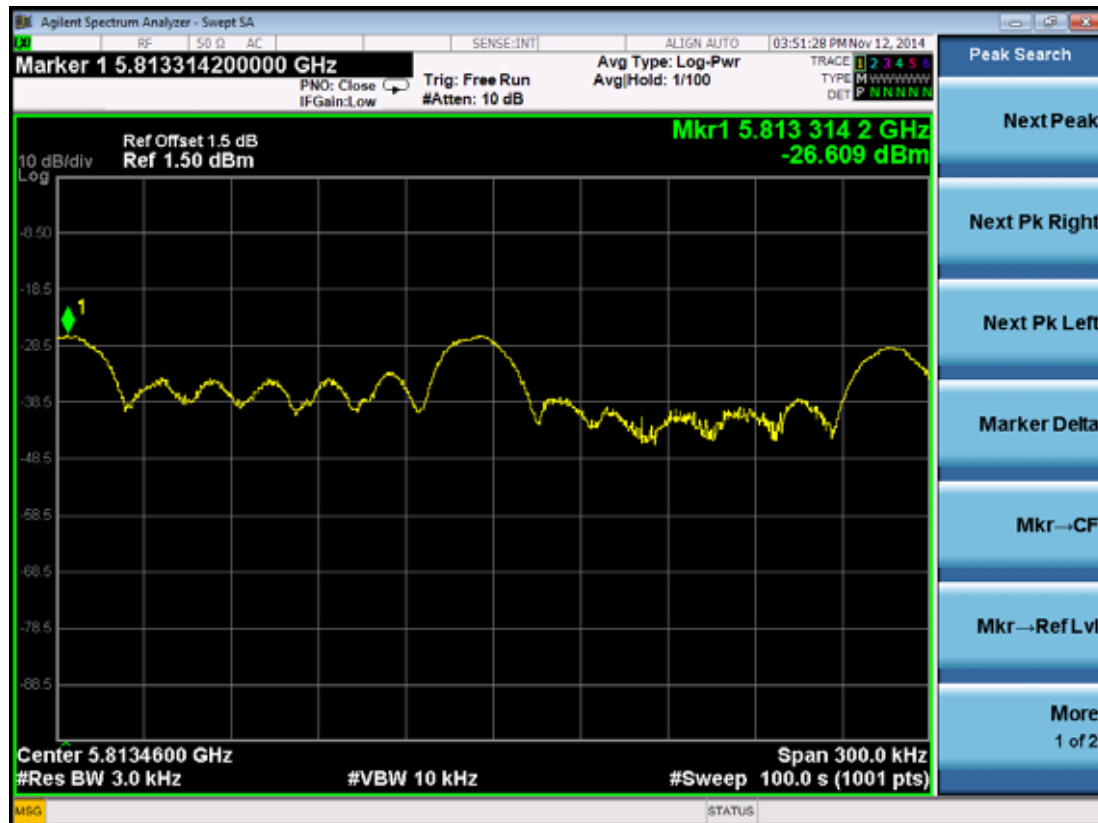
5736MHz



5762MHz



5814MHz



10. ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are PCB antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 9dBi.

11.DEVIATION TO TEST SPECIFICATIONS

[NONE]