APPLICATION FOR CERTIFICATION

On Behalf of

Philips Lighting(China) Investment Co., Ltd.

LED Lamp

Model No. : 9290011998

Brand : Philips

FCC ID : 2AGBW9290011998X

Prepared for

Philips Lighting(China) Investment Co., Ltd.
Building 9, Lane 888, Tian Lin Road, Minhang district, Shanghai, China

Prepared by

Audix Technology (Wujiang) Co., Ltd. EMC Dept.
No. 1289 Jiangxing East Road, the Part of Wujiang Economic Development Zone
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Report Number	ACWE-F1512003
Date of Test	Nov.09~Dec.01, 2015
Date of Report	Dec.07, 2015

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TEST REPORT CERTIFICATION

Applicant	:	Philips Lighting(China) Investment Co., Ltd.
Manufacturer	:	Philips Lighting(China) Investment Co., Ltd.
Factory	:	Arts Electronics Co., Ltd.
EUT Description	:	LED Lamp
FCC ID	:	2AGBW9290011998X
(A) Model No.	:	9290011998
(B) Brand	:	Philips
(C) Power Supply	:	AC 110-130V, 50/60Hz
(D) Test Voltage	:	AC 120V, 60Hz

Applicable Standards:

FCC RULES AND REGULATIONS PART 15 SUBPART C, Oct. 2013
ANSI C63.10: 2013
KDB 558074 D01 DTS Meas Guidance v03r02

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C section 15.207, 15.205, 15.209&15.247 limits.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this test report shows that the EUT to be technically compliant with the FCC limits.

This test report applies to above tested sample only. This test report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: Nov.09~Dec.01, 2015 Date of Report: Dec.07, 2015

Prepared by : Emma Hu
(Emma Hu/Assistant Administrator)

Reviewer : Danny Sun
(Danny Sun/ Section Manager)

Approved & Authorized Signer : Ken Lu
(Ken Lu/Assistant General Manager)

1. SUMMARY OF MEASUREMENTS AND RESULTS

The EUT has been tested according to the applicable standards and test results are referred as below.

Description of Test Item	Standard	Results	Remark
CONDUCTED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.207 And ANSI C63.10:2013 And KDB 558074 D01 DTS Meas Guidance v03r02	PASS	Minimum passing margin is 9.02 dB at 0.15MHz
RADIATED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.209& Section 15.205 And ANSI C63.10:2013 And KDB 558074 D01 DTS Meas Guidance v03r02	PASS	Minimum passing margin is 9.07 dB at 31.94MHz
6 dB BANDWIDTH	FCC 47 CFR Part 15 Subpart C/ Section 15.247(a)(2) And ANSI C63.10:2013 And KDB 558074 D01 DTS Meas Guidance v03r02	PASS	＞500kHz
OUTPUT POWER	FCC 47 CFR Part 15 Subpart C/ Section 15.247(b)(3) And ANSI C63.10:2013 And KDB 558074 D01 DTS Meas Guidance v03r02	PASS	Minimum passing margin is 26.77dB at CH 20
BAND EDGES	FCC 47 CFR Part 15 Subpart C/ Section 15.247(d) And ANSI C63.10:2013 And KDB 558074 D01 DTS Meas Guidance v03r02	PASS	---
POWER SPECTRAL DENSITY	FCC 47 CFR Part 15 Subpart C/ Section 15.247(e) And ANSI C63.10:2013 And KDB 558074 D01 DTS Meas Guidance v03r02	PASS	Minimum passing margin is 21.751dB at CH 11
EMISSION LIMITATIONS	FCC 47 CFR Part 15 Subpart C/ Section 15.247(d) And ANSI C63.10:2013 And KDB 558074 D01 DTS Meas Guidance v03r02	PASS	---

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	LED Lamp
Model No.	:	9290011998
FCC ID	:	2AGBW9290011998X
Brand	:	Philips
Applicant	:	Philips Lighting(China) Investment Co., Ltd. Building 9, Lane 888, Tian Lin Road, Minhang district, Shanghai, China
Manufacturer	:	Philips Lighting(China) Investment Co., Ltd. Building 9, Lane 888, Tian Lin Road, Minhang district, Shanghai, China
Factory	:	Arts Electronics Co., Ltd. Shangxing Lu, Shangjiao Community, Changan Town, Dongguan Guangdong523000 China
Radio Technology	:	IEEE 802.15.4 (ZigBee®)
Antenna Gain	:	0dBi
Fundamental Range	:	2405 MHz -2480MHz
Tested Frequency	:	2405MHz (CH11) 2450MHz (CH20) 2480MHz (CH26)
Channel Setting Method	:	The Putty Software must be used when setting the channels during test. First, the EUT must be connected with the computer via USB to serial port. Then, when entering into the main configuration interface of the Putty software, we can set the channel information directly and perform the related test projects on the fixed frequency.
Highest Working Frequency	:	2.4GHz
Power Rating	:	10.5W, 150mA
Modulation type	:	O-QPSK
Date of Receipt of Sample	:	Oct.16, 2015
Date of Test	:	Nov.09~Dec.01, 2015

2.2. Description of Test Facility

Name of Firm	**Audix Technology (Wujiang) Co., Ltd. EMC Dept.**
Site Location	No. 1289 Jiangxing East Road, the Eastern Part of Wujiang Economic Development Zone Jiangsu China 215200
Test Facilities	**No.1 Conducted Shielding Enclosure** **No.1 3m Semi-anechoic Chamber** Date of Validity: Mar.30, 2018 FCC Registration No.**:** 897661 IC Registration No.:5183D-2 **RF Fully Chamber**
NVLAP Lab Code	200786-0 Valid until on Sep.30, 2016 (NVLAP is a signatory member of ILAC MRA) Remark: This report shall not be imply endorsement, certification or approval by NVLAP, NIST, or any agency of the U.S. Federal Government.

2.3. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
No.1 Conducted Disturbance Measurement	0.15MHz ~ 30MHz	± 3.30dB
Radiated Disturbance Measurement (At 3m Chamber)	Below 1GHz	± 4.50dB
Radiated Disturbance Measurement (At 3m Chamber)	Above 1GHz	± 5.15dB

Remark: Uncertainty = $ku_c(y)$

Test Item	Uncertainty
6 dB Bandwidth	± 0.16 MHz
Maximum Peak Output Power	± 0.12dB
Band Edges	± 0.38dB
Power Spectral Density	± 0.38dB
Emission Limitations	± 0.38dB

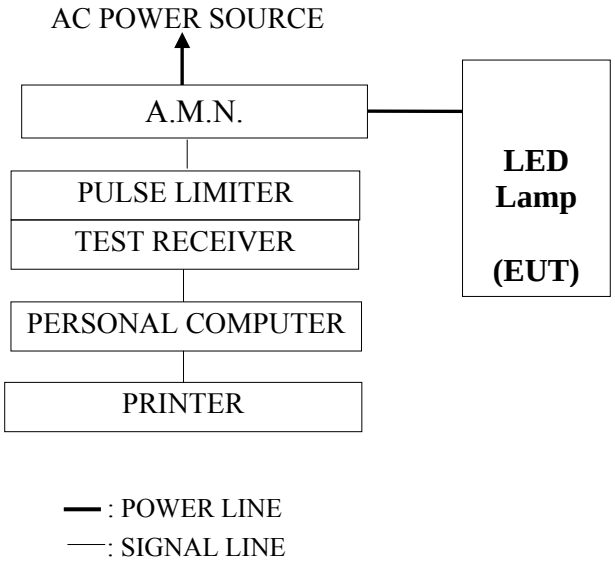
Remark: Uncertainty = $ku_c(y)$

3. CONDUCTED EMISSION MEASUREMET

3.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCI	100839	2015-01-05	2016-01-04
2.	A.M.N	R&S	ESH2-Z5	100153	2015-05-15	2016-05-14
3.	Pulse Limiter	R&S	ESH3-Z2	100605	2015-07-03	2016-07-02
4.	RF Cable	Harbour Industries	RG400	002	2015-01-05	2016-01-04
5.	Software	Audix/e3(6.7.0313)				

3.2. Block Diagram of Test Setup



3.3. Power line Conducted Emission Limit

(FCC Part 15, Section 15.207, Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2: The lower limit applies at the band edges.

3.4. Test Procedure

The measuring process is according to ANSI C63.10-2013 and laboratory internal procedure TKC-301-004. (For FCC Part15 Subpart C)

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meter height above the ground plane, and 0.4 meter far away from the vertical plane. The mains cable of the EUT connected to one Artificial Main Network(AMN). All other unit of the EUT and AE connected to a second Line Impedance Stabilization Network(L.I.S.N.). The telecommunication cable connected to the AE through a Impedance Stabilization Network(ISN) which terminated a 50Ω resistor. For the measurement, the A.M.N measuring port was terminated by a 50Ω measuring equipment and the second L.I.S.N measuring port was terminated by a 50Ω terminator. All measurements were done between the phase lead and the reference ground, and between the neutral lead and the reference ground. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set at 9 kHz.

The required frequency band (0.15 MHz ~ 30 MHz) was pre-scanned with peak detector; the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is unnecessary).

The emission level is calculated automatically by the test system which uses the following equation:

Emission level (dBμV) = Reading (dBμV) + A.M.N factor (dB) + Cable loss (dB).
(Cable loss includes pulse limiter loss)

3.5. Conducted Emission Measurement Results

For FCC Part15 Subpart C

PASSED.

EUT was performed during this section testing and all the test results are attached in next pages.

Test Date Nov.09, 2015 Temperature 21.5℃ Humidity 53

Mode	Test Condition	Reference Test Data No.	
		Neutral	Line
1	**Transmitting**	**※# 5**	**# 6**

NOTE 1 '※'means the worst test mode**.**

NOTE 2- The worst emission is detected at 0.15 MHz with emission level of 56.92 dB (μV) and with QP detector (Limit is 65.94 dB (μV)), when the Neutral of the EUT is connected to AMN.

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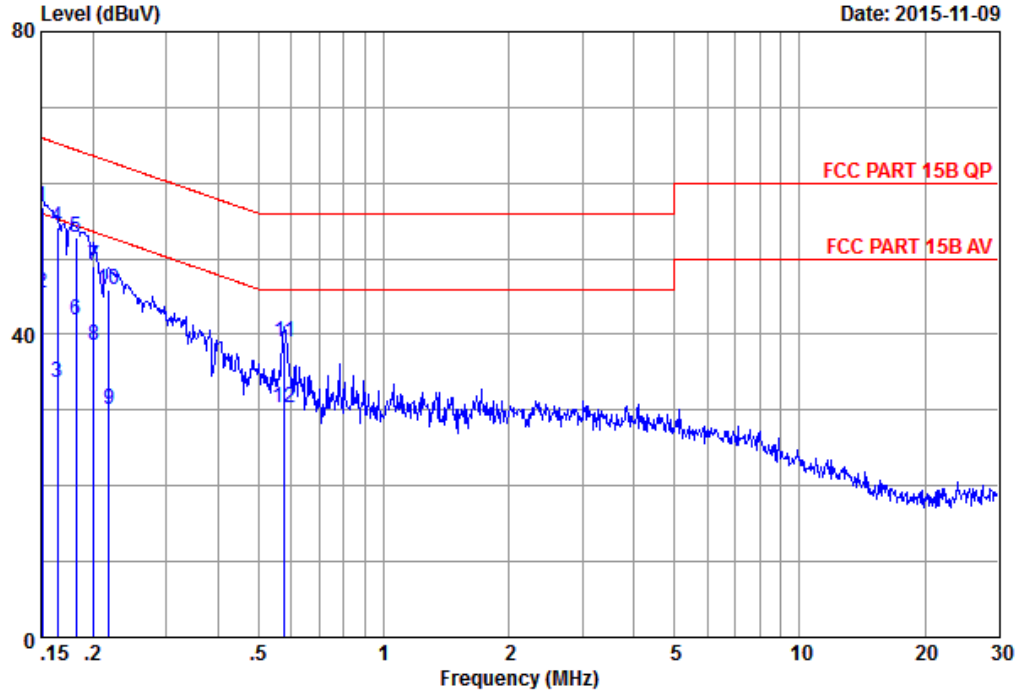
Data: 5 File: F:\2015Test Data\Report\10\G1510007.EM6 (6)



Site no.	: No.1 Conducted shielding Enclosure	Data no.	: 5
AMN/LISN	: ESH2-Z5-1505	Phase	: NEUTRAL
Limit	: FCC PART 15B QP		
Env. / Ins.	: 21.5*C&53%/ESCI	Engineer	: KM Tong
EUT	: LED Lamp		
M/N	: 9290011998		
Power Rating	: 120Vac/60Hz		
Test mode	: CH11 2405MHz		
Memo	:		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.15	9.87	46.90	56.92	65.94	9.02	QP
2	0.15	0.15	9.87	35.50	45.52	55.94	10.42	Average
3	0.16	0.15	9.87	23.60	33.62	55.26	21.64	Average
4	0.16	0.15	9.87	44.20	54.22	65.26	11.04	QP
5	0.18	0.15	9.87	42.90	52.92	64.39	11.47	QP
6	0.18	0.15	9.87	31.90	41.92	54.39	12.47	Average
7	0.20	0.15	9.87	38.90	48.92	63.57	14.65	QP
8	0.20	0.15	9.87	28.50	38.52	53.57	15.05	Average
9	0.22	0.15	9.87	20.11	30.13	52.86	22.73	Average
10	0.22	0.15	9.87	35.91	45.93	62.86	16.93	QP
11	0.58	0.16	9.88	28.91	38.95	56.00	17.05	QP
12	0.58	0.16	9.88	20.21	30.25	46.00	15.75	Average

Remarks:
1.Emission Level= AMN factor + Cable loss + Reading .

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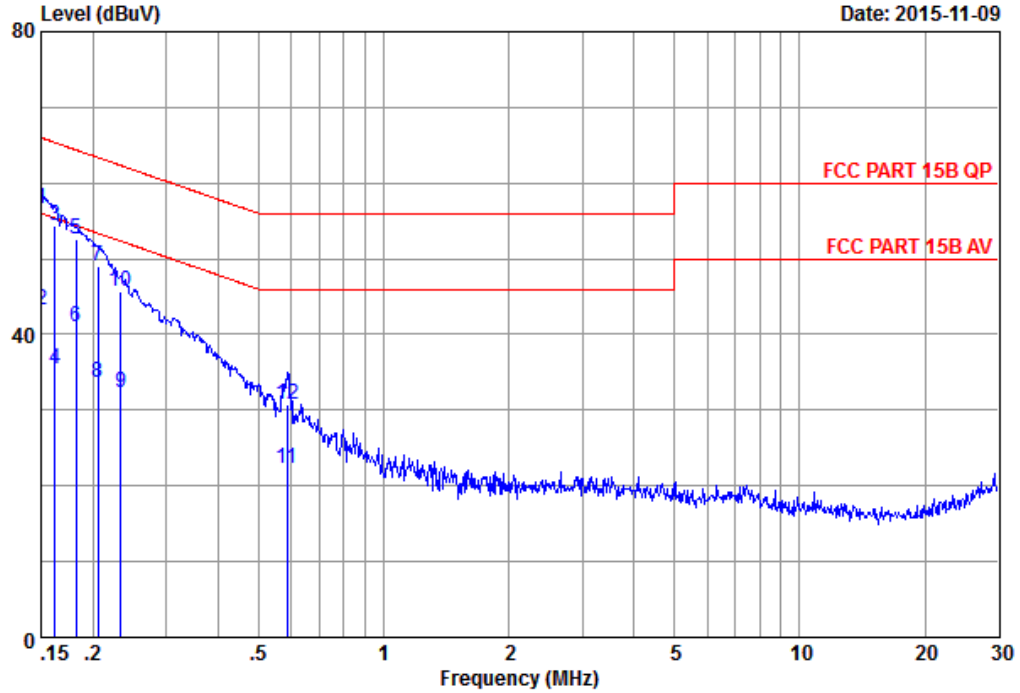
Data: 6 File: F:\2015Test Data\Report\10\G1510007.EM6 (6)



Site no.	: No.1 Conducted shielding Enclosure	Data no.	: 6
AMN/LISN	: ESH2-Z5-1505	Phase	: LINE
Limit	: FCC PART 15B QP		
Env. / Ins.	: 21.5*C&53%/ESCI	Engineer	: KM Tong
EUT	: LED Lamp		
M/N	: 9290011998		
Power Rating	: 120Vac/60Hz		
Test mode	: CH11 2405MHz		
Memo	:		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.16	9.87	46.60	56.63	66.00	9.37	QP
2	0.15	0.16	9.87	33.30	43.33	56.00	12.67	Average
3	0.16	0.16	9.87	44.30	54.33	65.36	11.03	QP
4	0.16	0.16	9.87	25.50	35.53	55.36	19.83	Average
5	0.18	0.15	9.87	42.60	52.62	64.39	11.77	QP
6	0.18	0.15	9.87	30.90	40.92	54.39	13.47	Average
7	0.21	0.15	9.87	38.91	48.93	63.37	14.44	QP
8	0.21	0.15	9.87	23.61	33.63	53.37	19.74	Average
9	0.23	0.15	9.88	22.20	32.23	52.34	20.11	Average
10	0.23	0.15	9.88	35.60	45.63	62.34	16.71	QP
11	0.59	0.17	9.88	12.21	22.26	46.00	23.74	Average
12	0.59	0.17	9.88	20.61	30.66	56.00	25.34	QP

Remarks:
1.Emission Level= AMN factor + Cable loss + Reading .

4. RADIATED EMISSION MEASUREMENT

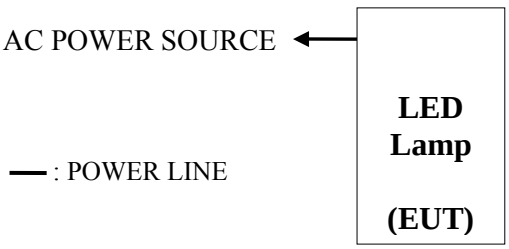
4.1. Test Equipment

The following test equipment was used during the radiated emission measurement:
At 3m Semi-Anechoic Chamber

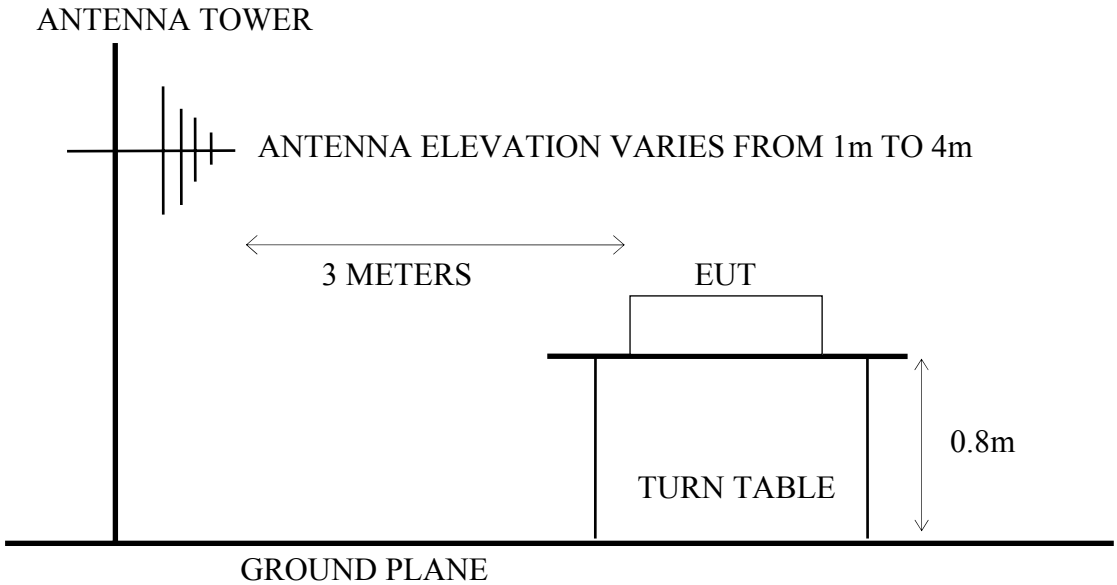
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8449B	3008A02233	2015-01-05	2016-01-04
2.	Preamplifier	Agilent	8447D	2944A10921	2015-07-03	2016-07-02
3.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22
4.	Test Receiver	R&S	ESCI	100361	2015-01-05	2016-01-04
5.	Bi-log Antenna	Schaffner	CBL6112D	22253	2015-08-05	2016-08-04
6.	Horn Antenna	EMCO	3115	62960	2015-06-30	2016-05-29
7.	RF Cable #1	Yuhang CSYH	cable-3m	001(0.5m)	2015-01-05	2016-01-04
8.	RF Cable #2	Yuhang CSYH	cable-3m	002(0.5m)	2015-01-05	2016-01-04
9.	RF Cable #3	Yuhang CSYH	cable-3m	003(3.0m)	2015-01-05	2016-01-04
10.	Software	Audix/e3(6.7.0313)				

4.2. Block Diagram of Test Setup

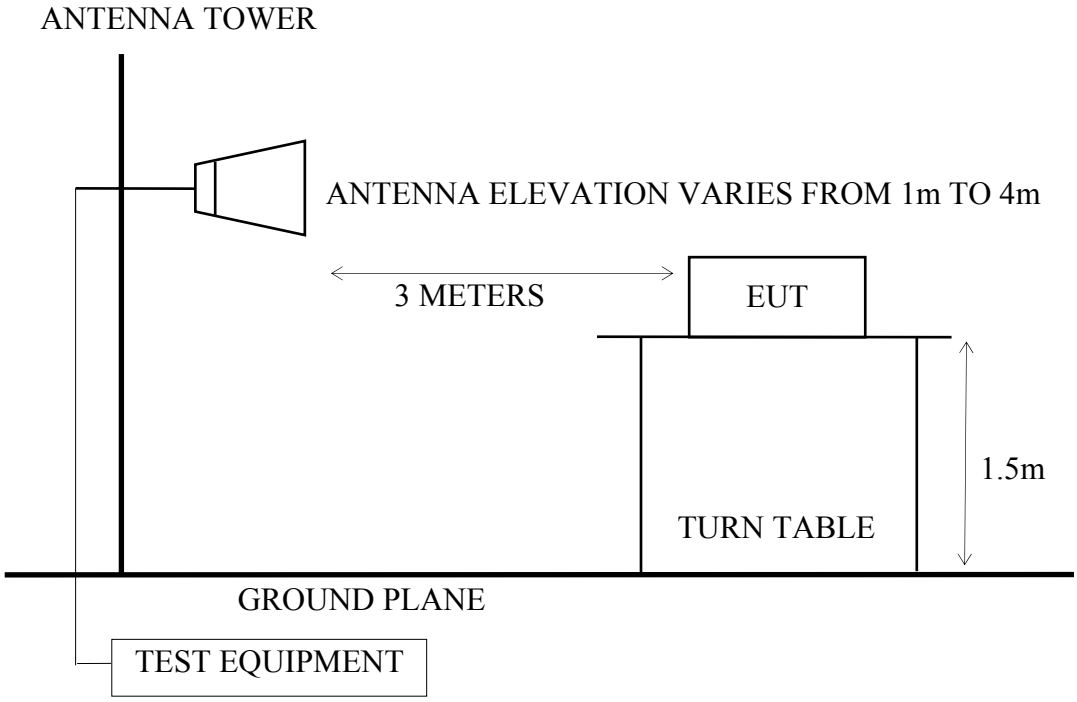
4.2.1. Block Diagram of Test Setup between EUT and simulators



4.2.2. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance:3m) for 30-1000MHz



4.2.3. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for above 1GHz



4.3. Radiated Emission Limits

Radiated Emission Limits (FCC Part15 C, section 15.209, CISPR22)

Frequency MHz	Distance Meters	Field Strengths Limits dBμV/m
30 ~ 230	10	30.0
230 ~ 1000	10	37.0
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)

Remark (1) Emission level (dBμV/m) = 20 log Emission level (μV/m)

(2)The tighter limit applies at the edge between two frequency bands.

4.4. Test Procedure

The measuring process is according to ANSI C63.10-2013 and laboratory internal procedure TKC-301-001. (For FCC Part15 Subpart C)

In the radiated disturbance measurement, the EUT and all simulators were set up on a non-metallic turn table which was 0.8 meter above the ground plane. Measurement distance between EUT and receiving antennas was set at 10 meters at 30MHz~1GHz and 3 meters at 1GHz~6GHz. The measurement distance is the shortest horizontal distance between an imaginary circular periphery which consists of EUT periphery and cables and the reference point of the antenna. During the radiated measurement, the EUT was rotated 360° and receiving antennas were moved from 1 ~ 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz~1GHz, One receiving antennas was used for both horizontal and vertical polarization detection for 1GHz~6GHz (the absorbing material was added when testing of 1GHz~6GHz was done). All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to:

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz
RBW (1 MHz), VBW (1MHz) for Peak detector above 1GHz
RBW (1 MHz), VBW (10Hz) for AV detector above 1GHz

The frequency range from 30MHz to 10^{th} harmonic(25GHz) are checked, and no any emissions were found from 18GHz to 25GHz.

The emission level is calculated automatically by the test system which uses the following equation：

1. For 30MHz-1GHz measurement:
   Emission Level (dBμV/m) = Reading (dBμV)+Antenna Factor (dB/m)+Cable Loss (dB)
2. For Above 1GHz measurement:
   Emission Level (dBμV/m) = Reading (dBμV)+Antenna Factor (dB/m)+Cable Loss(dB)
   -Pre-amplifier factor (dB)

The three orthogonal planes have been all tested, and the data of the worst mode XY plan(in Horizontal) & XZ plan(in Vertical) is shown in the report.

4.6. Measurement Results

PASSED

4.6.1. For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 5.7 & 5.8. (The restricted bands defined in part 15.205(a))

For Frequency range：below 1GHz

No.	Test Mode and Frequency		Reference Test Data No.	
			Horizontal	Vertical
1.	Transmitting	2405MHz (Channel 11)	# 1	# 2
2.		2450MHz (Channel 20)	# 3	# 4
3.		2480MHz (Channel 26)	# 5	# 6

For Frequency range：above 1GHz

No.	Test Mode and Frequency		Reference Test Data No.	
			Horizontal	Vertical
1.	Transmitting	2405MHz (Channel 11)	# 7	# 8
2.		2450MHz (Channel 20)	# 9	# 10
3.		2480MHz (Channel 26)	# 11	# 12

4.6.2. For Band Edge Emission

The EUT was tested in restricted bands and all the test results are listed in section 5.9. The restricted bands defined in part 15.205(a))

No.	Test Mode and Frequency		Reference Test Data No.	
			Horizontal	Vertical
1.	Transmitting	2405MHz (Channel 11)	# 13, # 15	# 14, # 16
2.		2480MHz (Channel 26)	# 17, # 19	# 18, # 20

4.7. Restricted Bands Measurement Results (For Below 1GHz)

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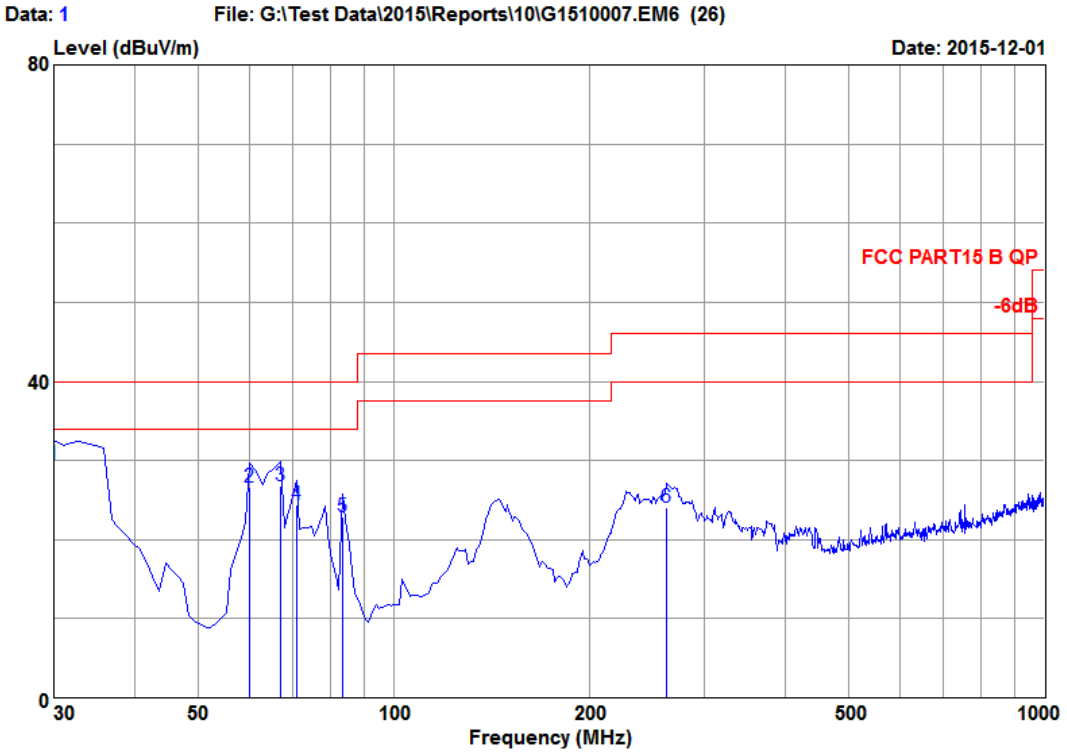

Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22253)-150805
Limit : FCC PART15 B QP
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating : 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. :1
Ant. pol. : HORIZONTAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.00	19.50	0.23	37.13	29.51	40.00	10.49	QP
2	60.07	6.50	0.34	47.11	26.67	40.00	13.33	QP
3	66.86	6.43	0.37	47.32	26.85	40.00	13.15	QP
4	70.74	6.55	0.39	44.80	24.48	40.00	15.52	QP
5	83.35	8.43	0.45	41.17	22.82	40.00	17.18	QP
6	261.83	13.96	1.33	35.48	24.09	46.00	21.91	QP

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

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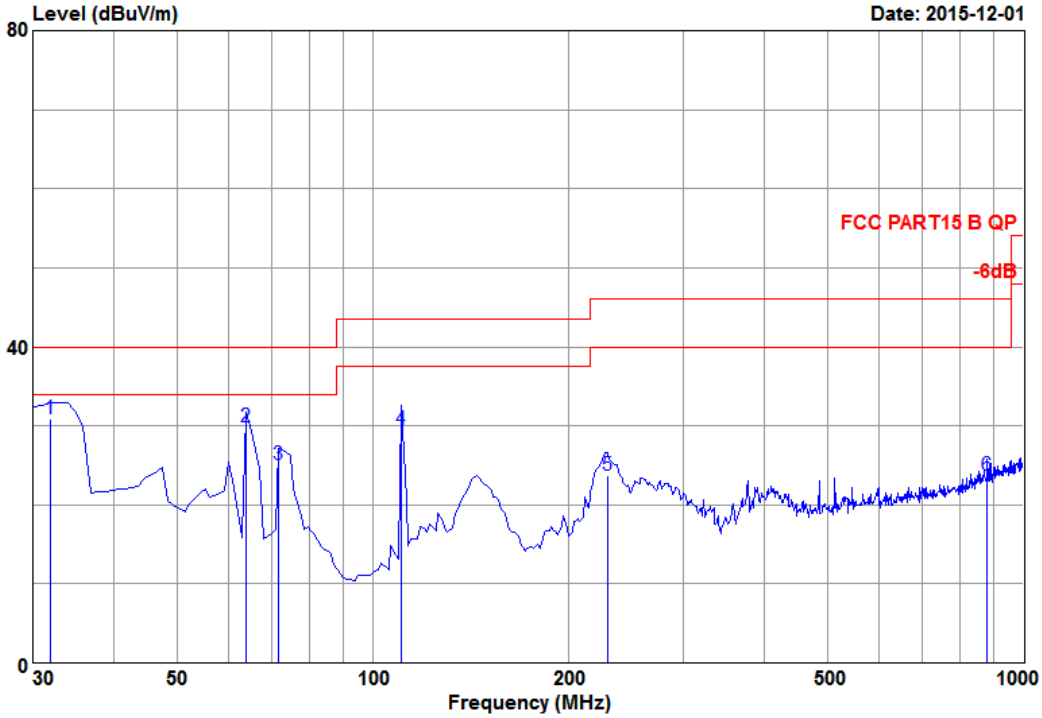
Data: 2 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22253)-150805
Limit : FCC PART15 B QP
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating : 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. :2
Ant. pol. : VERTICAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	18.46	0.24	39.58	30.93	40.00	9.07	QP
2	63.95	6.46	0.36	50.23	29.78	40.00	10.22	QP
3	71.71	6.71	0.39	45.30	25.14	40.00	14.86	QP
4	110.51	12.30	0.70	43.73	29.57	43.50	13.93	QP
5	229.82	11.55	1.27	37.55	23.63	46.00	22.37	QP
6	878.75	21.59	2.75	26.69	23.70	46.00	22.30	QP

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

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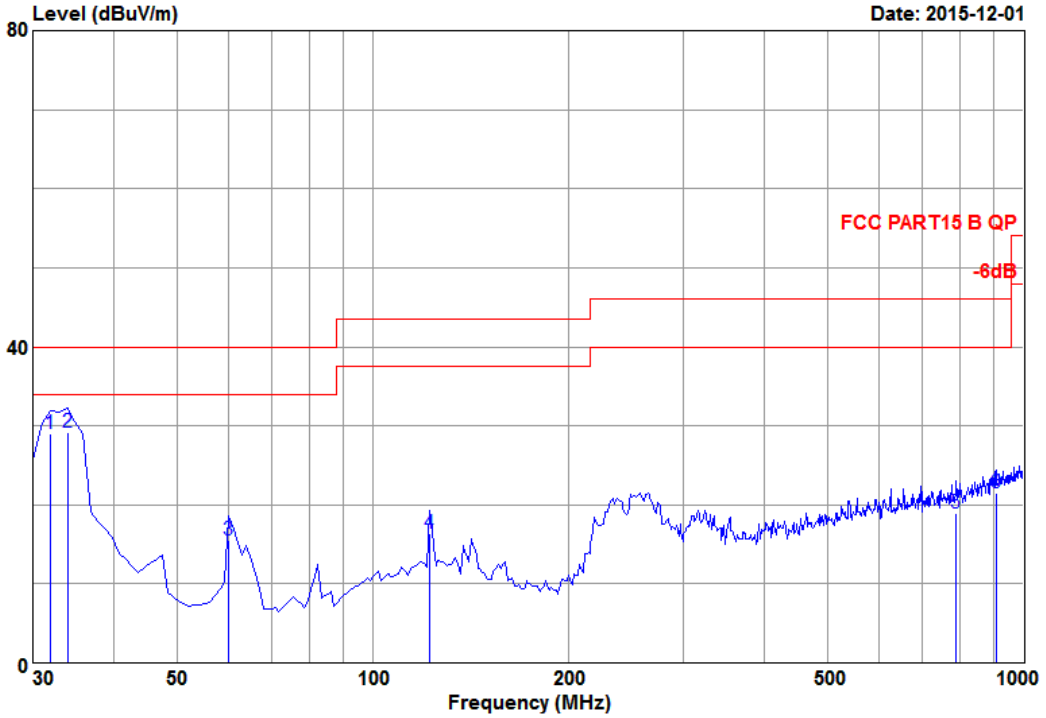

Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22253)-150805
Limit : FCC PART15 B QP
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating : 120Vac/60Hz
Test Mode : TX CH20 2450MHz
Memo :

Data NO. :3
Ant. pol. : HORIZONTAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	18.46	0.24	37.61	28.96	40.00	11.04	QP
2	33.88	17.42	0.24	38.86	29.18	40.00	10.82	QP
3	60.07	6.50	0.34	35.99	15.55	40.00	24.45	QP
4	122.15	13.10	0.78	29.57	16.34	43.50	27.16	QP
5	788.54	20.70	2.56	23.50	18.96	46.00	27.04	QP
6	908.82	21.88	2.82	23.92	21.46	46.00	24.54	QP

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

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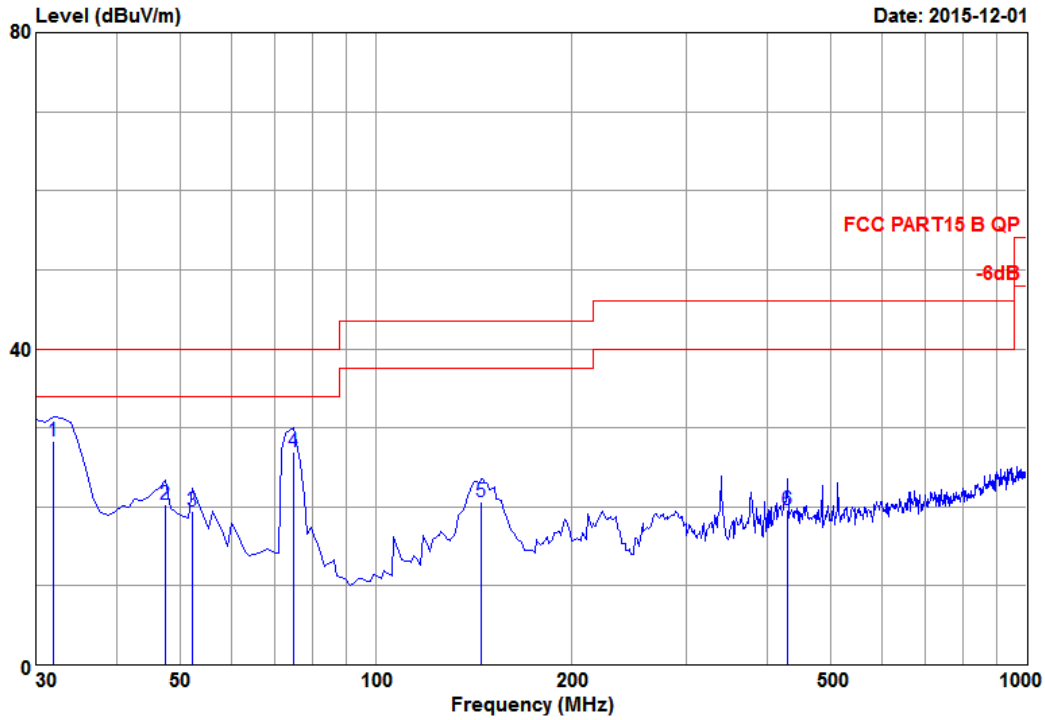
Data: 4 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22253)-150805
Limit : FCC PART15 B QP
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating : 120Vac/60Hz
Test Mode : TX CH20 2450MHz
Memo :

Data NO. :4
Ant. pol. : VERTICAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	18.46	0.24	37.01	28.36	40.00	11.64	QP
2	47.46	10.30	0.28	37.04	20.31	40.00	19.69	QP
3	52.31	8.34	0.30	38.03	19.37	40.00	20.63	QP
4	74.62	7.17	0.40	46.65	26.97	40.00	13.03	QP
5	145.43	11.83	0.93	34.84	20.58	43.50	22.92	QP
6	428.67	17.03	1.81	28.22	19.62	46.00	26.38	QP

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

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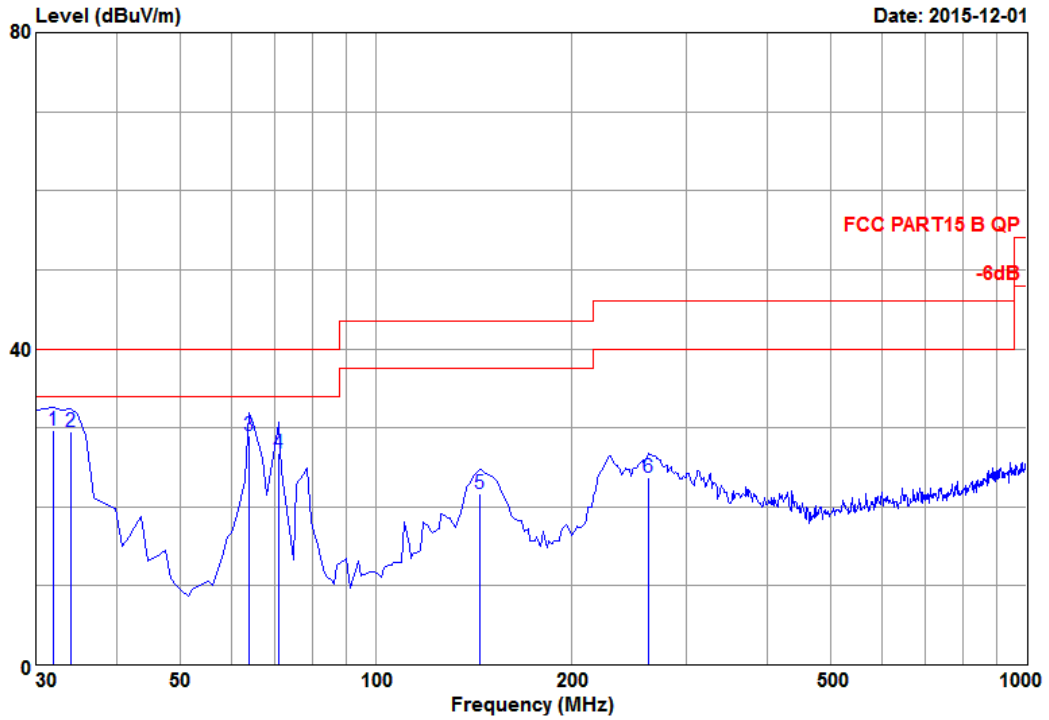
Data: 5 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22253)-150805
Limit : FCC PART15 B QP
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating : 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. :5
Ant. pol. : HORIZONTAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	18.46	0.24	38.29	29.64	40.00	10.36	QP
2	33.88	17.42	0.24	39.18	29.50	40.00	10.50	QP
3	63.95	6.46	0.36	49.40	28.95	40.00	11.05	QP
4	70.74	6.55	0.39	47.06	26.74	40.00	13.26	QP
5	144.46	11.89	0.93	35.94	21.74	43.50	21.76	QP
6	261.83	13.96	1.33	35.13	23.74	46.00	22.26	QP

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

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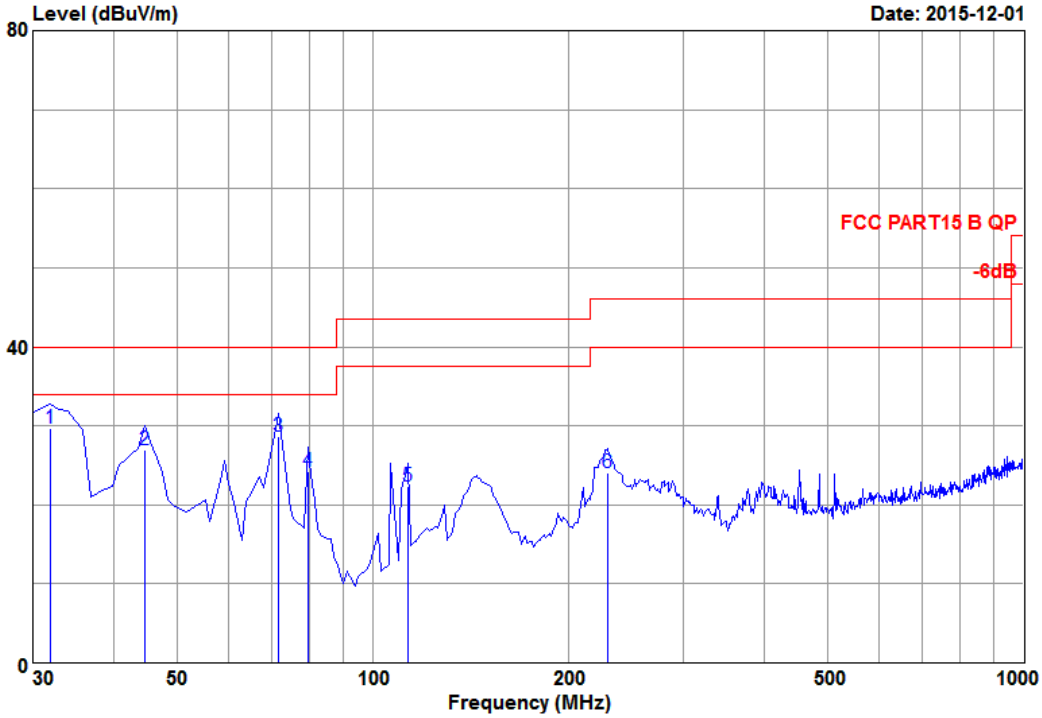
Data: 6 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22253)-150805
Limit : FCC PART15 B QP
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating : 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. :6
Ant. pol. : VERTICAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	18.46	0.24	38.34	29.69	40.00	10.31	QP
2	44.55	11.80	0.28	42.19	26.96	40.00	13.04	QP
3	71.71	6.71	0.39	48.76	28.60	40.00	11.40	QP
4	79.47	7.95	0.42	43.11	24.24	40.00	15.76	QP
5	113.42	12.57	0.72	36.17	22.31	43.50	21.19	QP
6	229.82	11.55	1.27	38.03	24.11	46.00	21.89	QP

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

4.8. Restricted Bands Measurement Results (For Above 1GHz)

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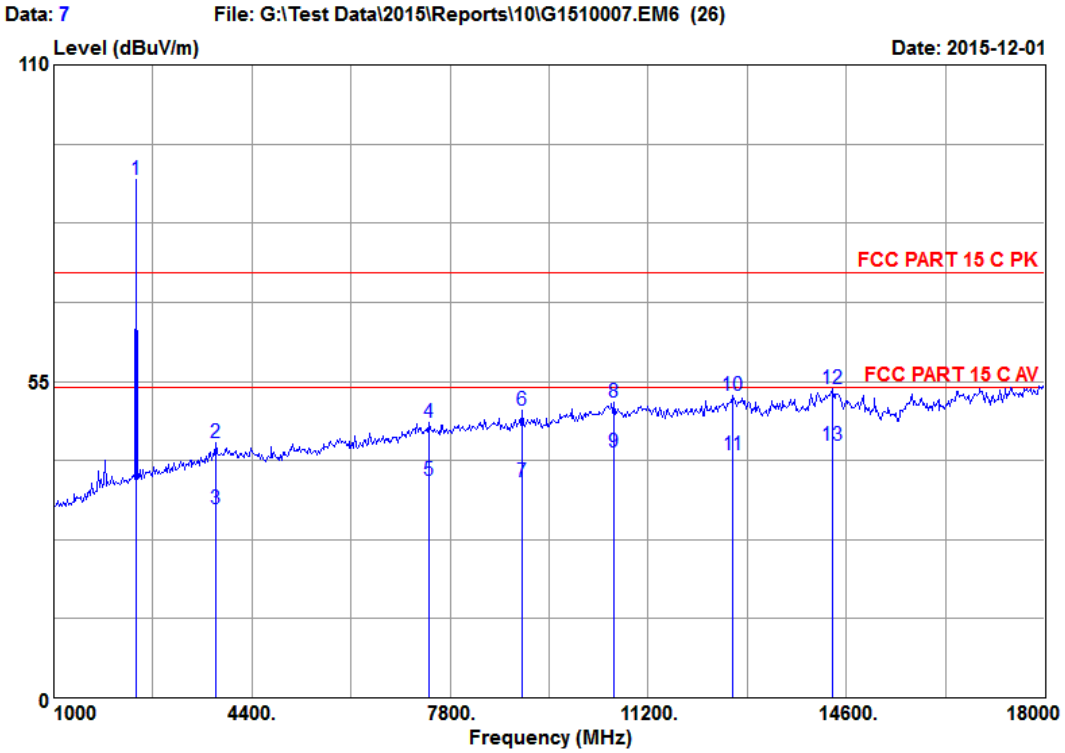

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 7
Ant. pol. : HORIZONTAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	2407.00	28.49	4.38	92.08	34.94	90.01	74.00	-16.01	Peak
2	3772.00	32.07	5.80	41.04	34.56	44.35	74.00	29.65	Peak
3	3772.12	32.07	5.80	29.60	34.56	32.91	54.00	21.09	Average
4	7447.00	36.68	8.33	36.96	34.12	47.85	74.00	26.15	Peak
5	7447.02	36.68	8.33	26.90	34.12	37.79	54.00	16.21	Average
6	9043.00	38.01	9.05	37.87	34.96	49.97	74.00	24.03	Peak
7	9044.15	38.01	9.05	25.49	34.96	37.59	54.00	16.41	Average
8	10618.00	39.48	10.45	35.43	34.02	51.34	74.00	22.66	Peak
9	10619.25	39.48	10.45	26.71	34.02	42.62	54.00	11.38	Average
10	12655.00	39.17	11.17	35.13	32.98	52.49	74.00	21.51	Peak
11	12655.12	39.17	11.17	24.91	32.98	42.27	54.00	11.73	Average
12	14356.00	42.49	12.14	31.21	32.10	53.74	74.00	20.26	Peak
13	14357.25	42.49	12.14	21.40	32.10	43.93	54.00	10.07	Average

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

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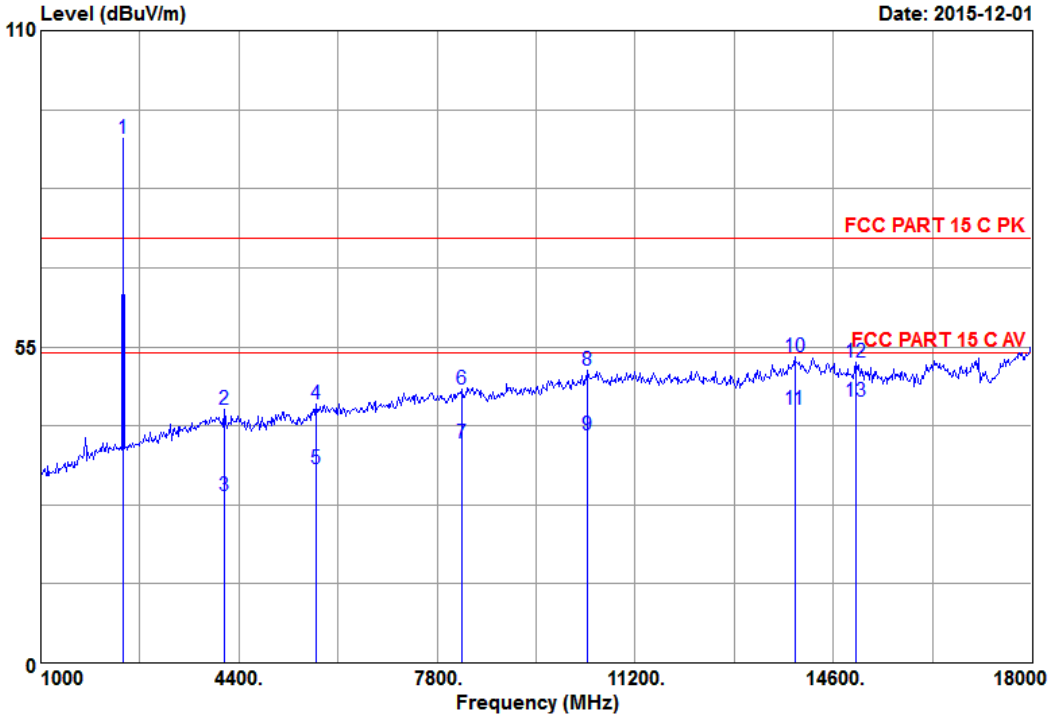
Data: 8 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 8
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2407.00	28.49	4.38	93.26	34.94	91.19	74.00	-17.19	Peak
2	4150.00	32.58	6.12	39.74	34.39	44.05	74.00	29.95	Peak
3	4151.02	32.58	6.12	24.79	34.39	29.10	54.00	24.90	Average
4	5725.00	34.09	7.35	37.71	34.10	45.05	74.00	28.95	Peak
5	5726.21	34.09	7.35	26.50	34.10	33.84	54.00	20.16	Average
6	8224.00	37.27	8.86	36.23	34.80	47.56	74.00	26.44	Peak
7	8225.14	37.27	8.86	26.90	34.80	38.23	54.00	15.77	Average
8	10387.00	39.41	10.33	35.38	34.25	50.87	74.00	23.13	Peak
9	10388.25	39.41	10.33	24.10	34.25	39.59	54.00	14.41	Average
10	13936.00	42.05	12.03	30.60	31.50	53.18	74.00	20.82	Peak
11	13937.14	42.05	12.03	21.50	31.50	44.08	54.00	9.92	Average
12	14986.00	41.05	12.26	32.35	33.25	52.41	74.00	21.59	Peak
13	14987.14	41.05	12.27	25.50	33.30	45.52	54.00	8.48	Average

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

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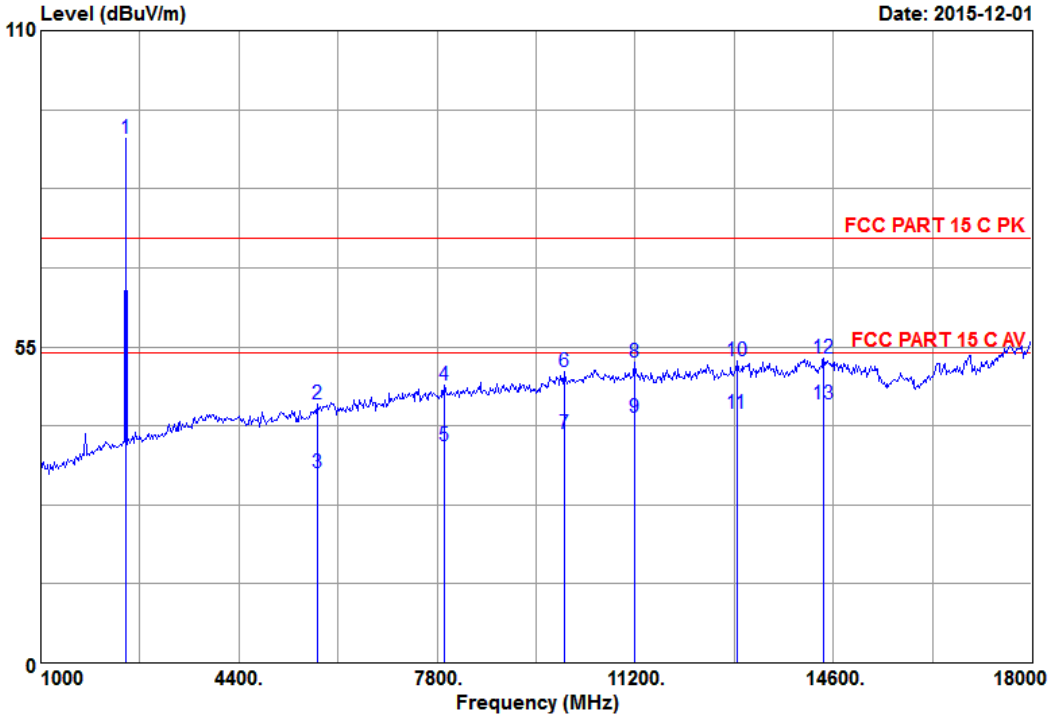
Data: 9 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH20 2450MHz
Memo :

Data NO. : 9
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2449.00	28.58	4.42	93.31	34.95	91.36	74.00	-17.36	Peak
2	5746.00	34.10	7.38	37.56	34.09	44.95	74.00	29.05	Peak
3	5747.25	34.10	7.38	25.80	34.09	33.19	54.00	20.81	Average
4	7930.00	36.97	8.75	37.16	34.66	48.22	74.00	25.78	Peak
5	7931.25	36.97	8.75	26.60	34.66	37.66	54.00	16.34	Average
6	9988.00	38.80	10.08	36.42	34.65	50.65	74.00	23.35	Peak
7	9989.25	38.80	10.11	25.50	34.64	39.77	54.00	14.23	Average
8	11185.00	39.21	10.65	36.13	33.74	52.25	74.00	21.75	Peak
9	11186.25	39.21	10.65	26.50	33.74	42.62	54.00	11.38	Average
10	12949.00	39.79	11.45	33.60	32.39	52.45	74.00	21.55	Peak
11	12949.87	39.79	11.45	24.51	32.39	43.36	54.00	10.64	Average
12	14440.00	42.56	12.16	30.51	32.25	52.98	74.00	21.02	Peak
13	14441.25	42.56	12.16	22.60	32.25	45.07	54.00	8.93	Average

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

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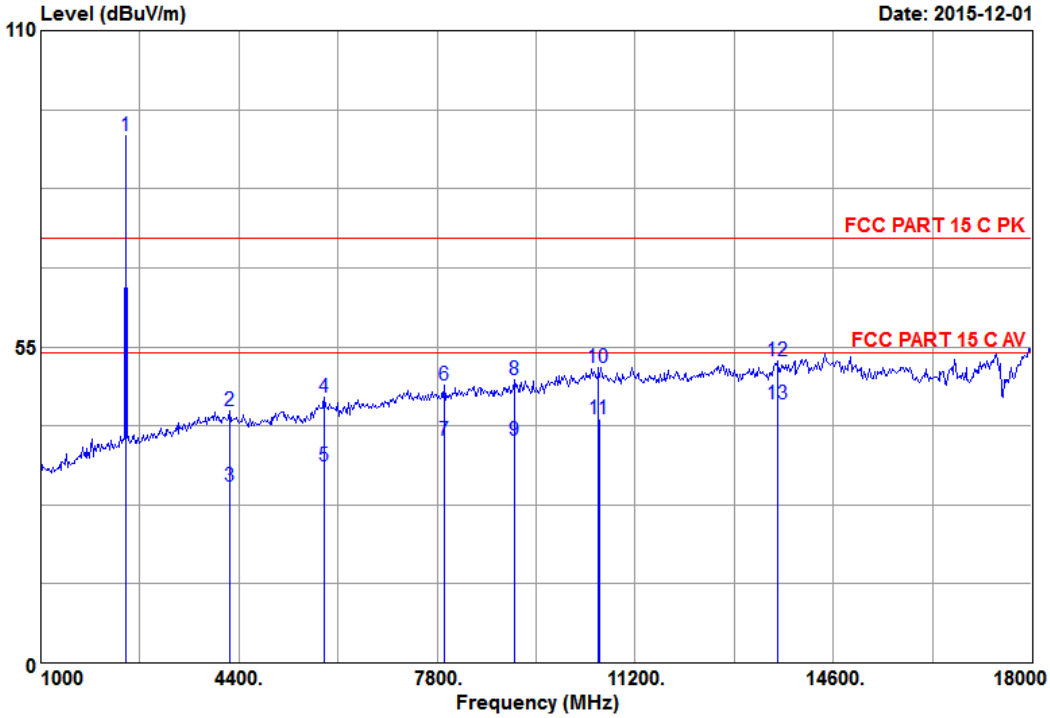
Data: 10 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH20 2450MHz
Memo :

Data NO. : 10
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2449.00	28.58	4.42	93.78	34.95	91.83	74.00	-17.83	Peak
2	4234.00	32.51	6.15	39.67	34.39	43.94	74.00	30.06	Peak
3	4234.57	32.51	6.15	26.50	34.39	30.77	54.00	23.23	Average
4	5872.00	34.15	7.55	38.47	34.05	46.12	74.00	27.88	Peak
5	5873.25	34.15	7.55	26.50	34.05	34.15	54.00	19.85	Average
6	7930.00	36.97	8.75	37.26	34.66	48.32	74.00	25.68	Peak
7	7931.26	36.97	8.75	27.65	34.66	38.71	54.00	15.29	Average
8	9127.00	38.02	9.16	37.13	34.93	49.38	74.00	24.62	Peak
9	9128.14	38.02	9.16	26.41	34.93	38.66	54.00	15.34	Average
10	10576.00	39.53	10.44	35.42	34.04	51.35	74.00	22.65	Peak
11	10577.14	39.53	10.44	26.60	34.04	42.53	54.00	11.47	Average
12	13642.00	41.43	11.87	30.94	31.74	52.50	74.00	21.50	Peak
13	13643.14	41.43	11.87	23.50	31.74	45.06	54.00	8.94	Average

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

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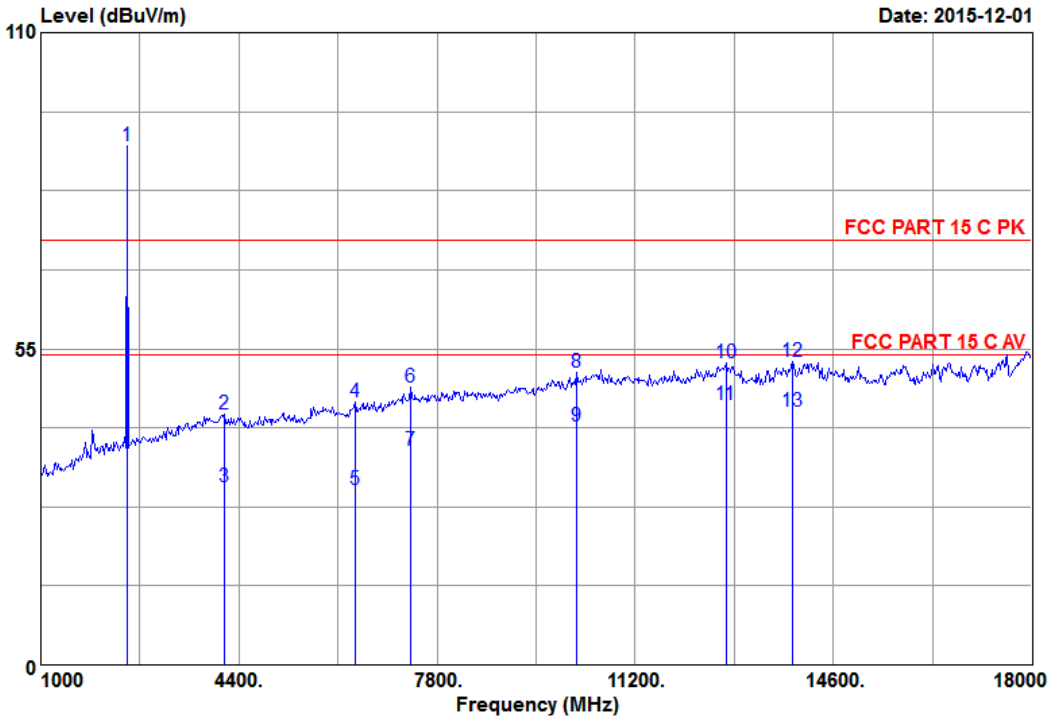

Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 11
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2470.00	28.62	4.44	92.21	34.96	90.31	74.00	-16.31	Peak
2	4150.00	32.58	6.12	39.35	34.39	43.66	74.00	30.34	Peak
3	4151.25	32.58	6.12	26.59	34.39	30.90	54.00	23.10	Average
4	6397.00	34.43	7.80	37.35	33.84	45.74	74.00	28.26	Peak
5	6398.14	34.44	7.80	22.20	33.84	30.60	54.00	23.40	Average
6	7342.00	36.43	8.24	37.62	34.00	48.29	74.00	25.71	Peak
7	7343.15	36.43	8.24	26.60	34.00	37.27	54.00	16.73	Average
8	10198.00	39.12	10.22	35.93	34.43	50.84	74.00	23.16	Peak
9	10199.14	39.12	10.22	26.60	34.43	41.51	54.00	12.49	Average
10	12760.00	39.39	11.27	34.60	32.78	52.48	74.00	21.52	Peak
11	12761.14	39.39	11.27	27.39	32.78	45.27	54.00	8.73	Average
12	13894.00	41.94	12.01	30.46	31.52	52.89	74.00	21.11	Peak
13	13895.25	41.98	12.01	21.60	31.52	44.07	54.00	9.93	Average

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

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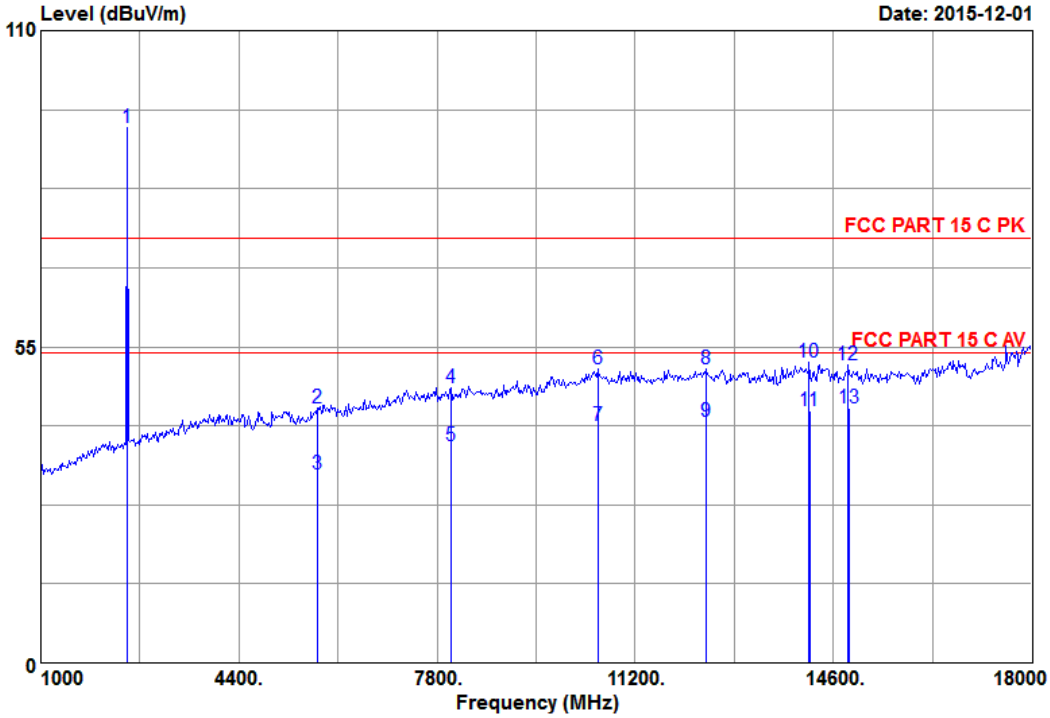
Data: 12 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 12
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2470.00	28.62	4.44	94.97	34.96	93.07	74.00	-19.07	Peak
2	5746.00	34.10	7.38	36.93	34.09	44.32	74.00	29.68	Peak
3	5747.25	34.10	7.38	25.50	34.09	32.89	54.00	21.11	Average
4	8035.00	37.04	8.83	36.80	34.76	47.91	74.00	26.09	Peak
5	8036.25	37.04	8.83	26.60	34.76	37.71	54.00	16.29	Average
6	10555.00	39.55	10.43	35.27	34.07	51.18	74.00	22.82	Peak
7	10556.21	39.55	10.43	25.49	34.07	41.40	54.00	12.60	Average
8	12424.00	38.84	10.97	34.75	33.42	51.14	74.00	22.86	Peak
9	12425.50	38.84	10.97	25.50	33.42	41.89	54.00	12.11	Average
10	14188.00	42.35	12.11	29.54	31.77	52.23	74.00	21.77	Peak
11	14189.25	42.35	12.11	21.10	31.77	43.79	54.00	10.21	Average
12	14860.00	41.48	12.24	31.16	33.06	51.82	74.00	22.18	Peak
13	14861.01	41.48	12.24	23.60	33.06	44.26	54.00	9.74	Average

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

4.9. Spurious Emission Measurement Results in Band Edge Emission (FCC Part 15, 15.205)

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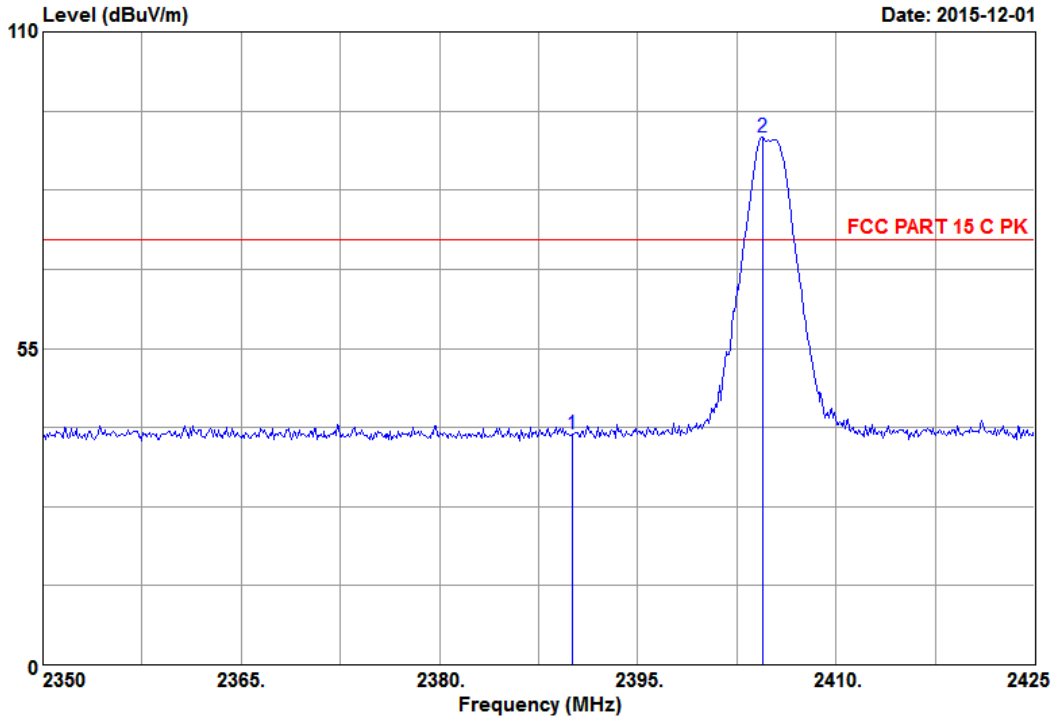
Data: 13 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 13
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.45	4.38	42.23	34.94	40.12	74.00	33.88	Peak
2	2404.50	28.49	4.38	93.67	34.94	91.60	74.00	-17.60	Peak

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

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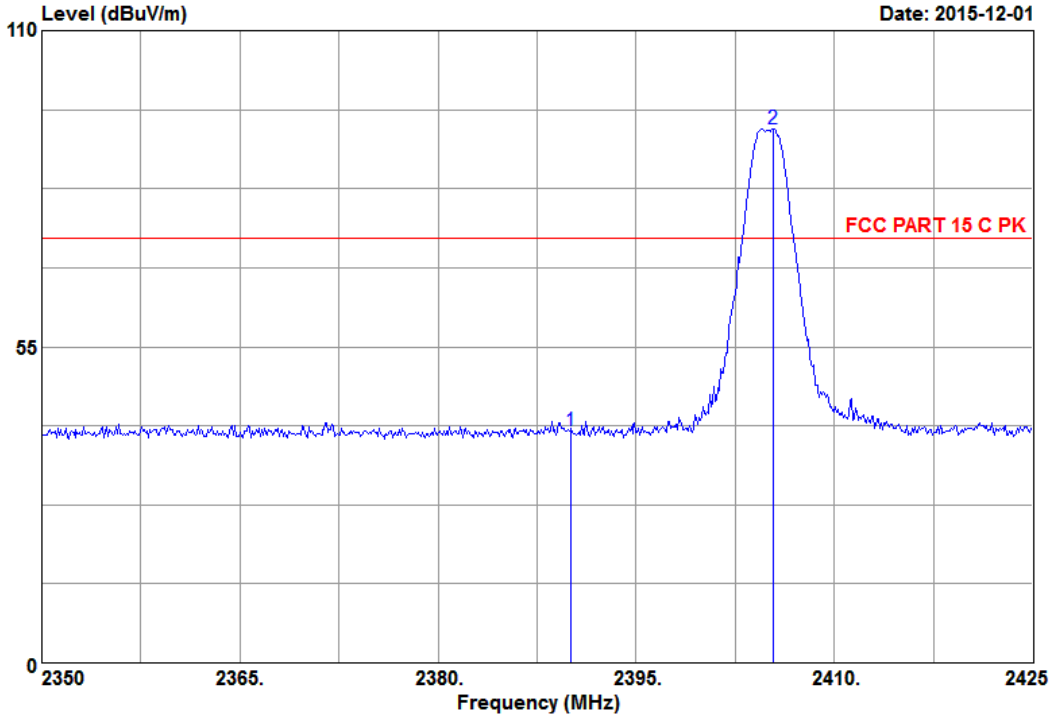
Data: 14 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 14
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.45	4.38	42.53	34.94	40.42	74.00	33.58	Peak
2	2405.40	28.49	4.38	95.02	34.94	92.95	74.00	-18.95	Peak

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

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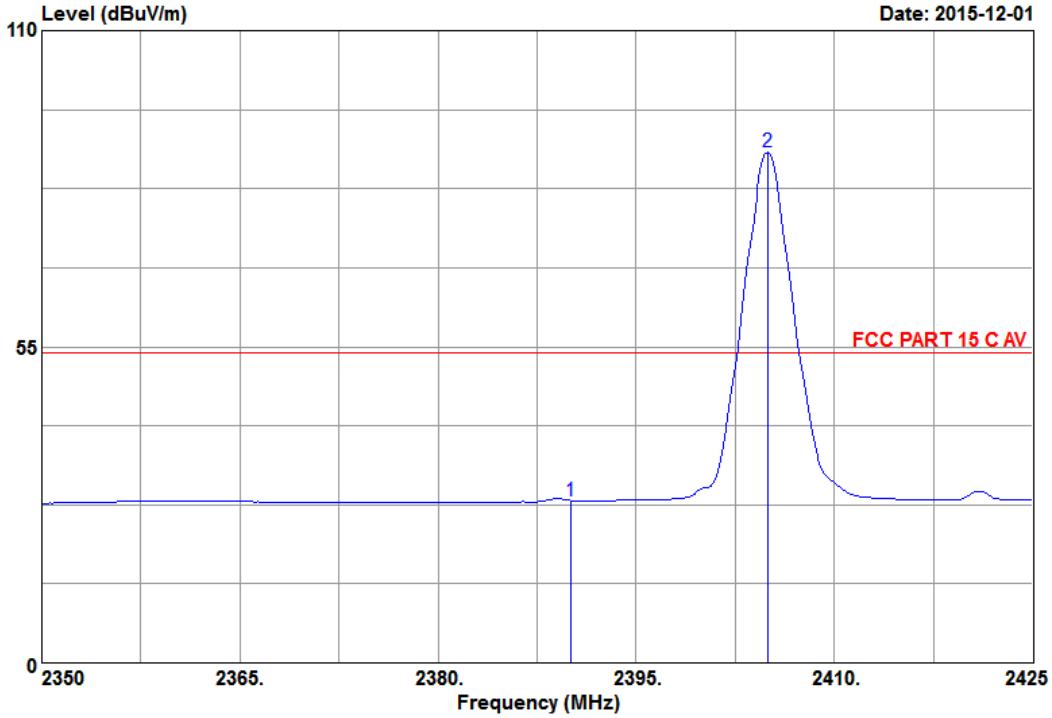
Data: 15 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C AV
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 15
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.45	4.38	30.37	34.94	28.26	54.00	25.74	Average
2	2405.00	28.49	4.38	90.86	34.94	88.79	54.00	-34.79	Average

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

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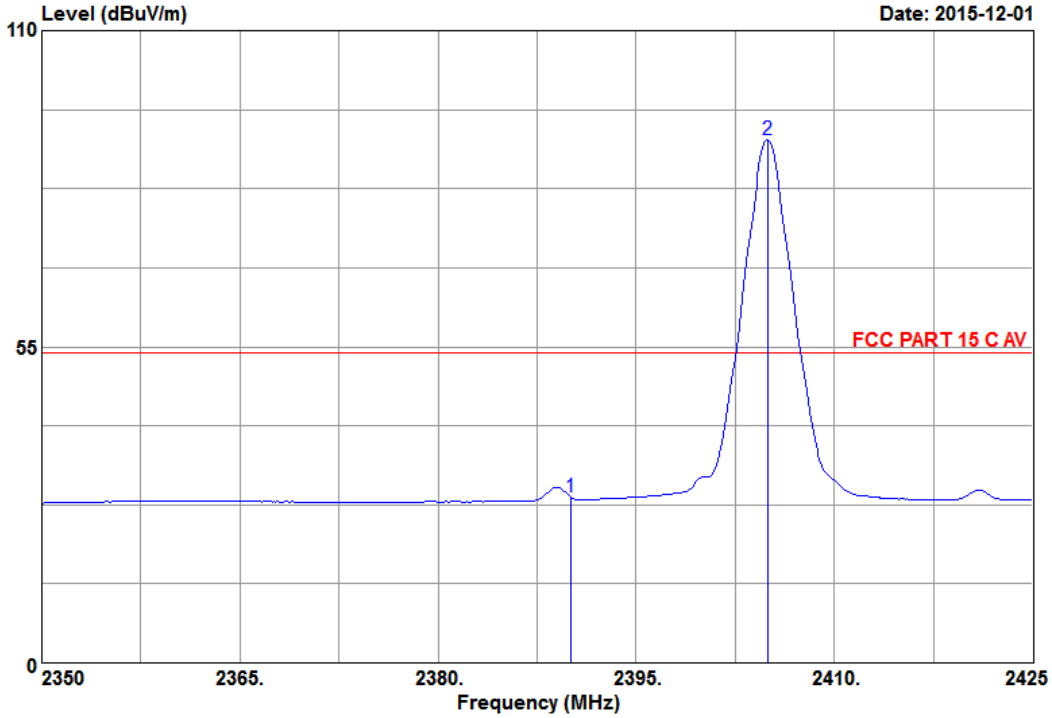
Data: 16 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C AV
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 16
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.45	4.38	31.02	34.94	28.91	54.00	25.09	Average
2	2405.00	28.49	4.38	92.97	34.94	90.90	54.00	-36.90	Average

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

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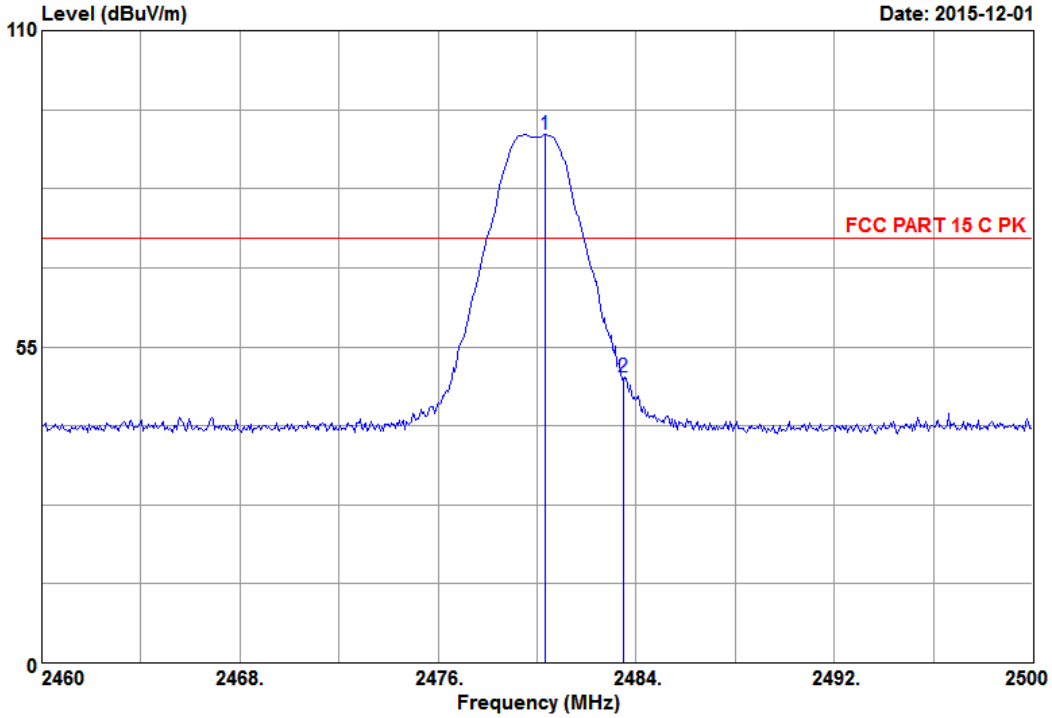
Data: 17 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 17
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.34	28.66	4.44	93.75	34.96	91.89	74.00	-17.89	Peak
2	2483.50	28.66	4.44	51.68	34.96	49.82	74.00	24.18	Peak

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

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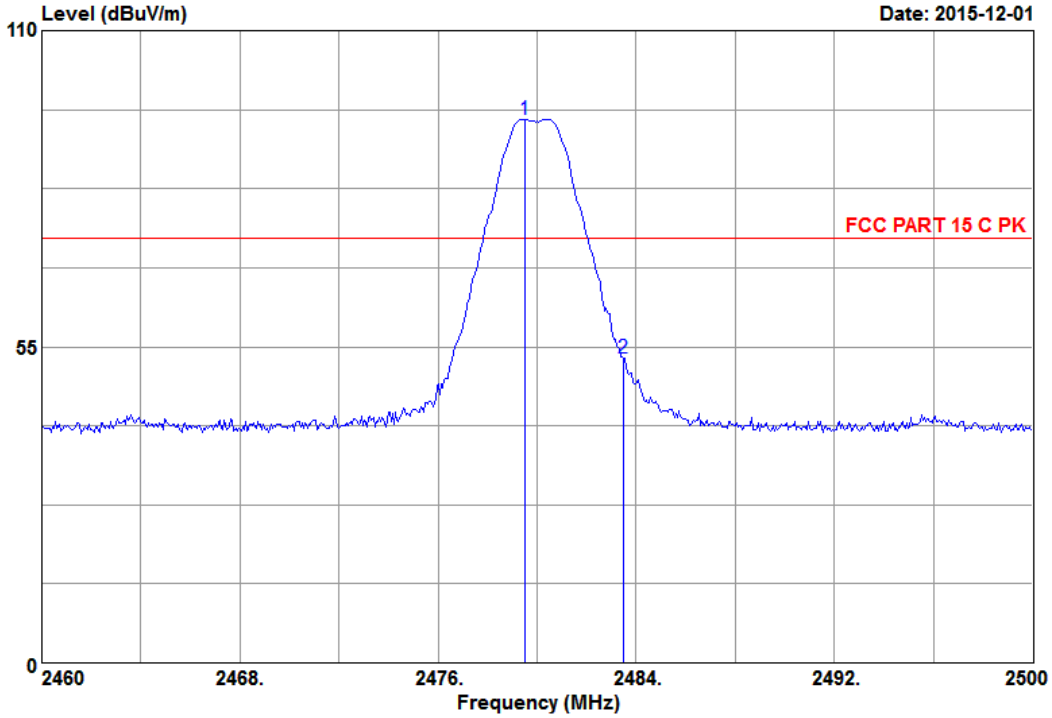
Data: 18 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C PK
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 18
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.50	28.66	4.44	96.50	34.96	94.64	74.00	-20.64	Peak
2	2483.50	28.66	4.44	54.86	34.96	53.00	74.00	21.00	Peak

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

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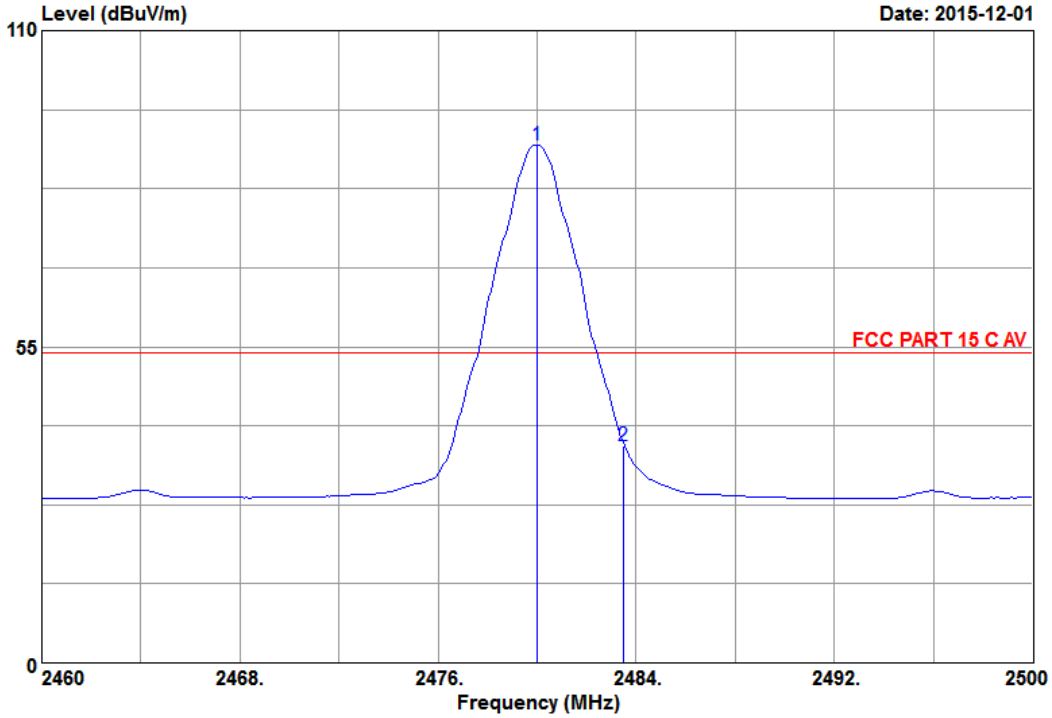
Data: 19 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C AV
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 19
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.98	28.66	4.44	92.02	34.96	90.16	54.00	-36.16	Average
2	2483.50	28.66	4.44	39.74	34.96	37.88	54.00	16.12	Average

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

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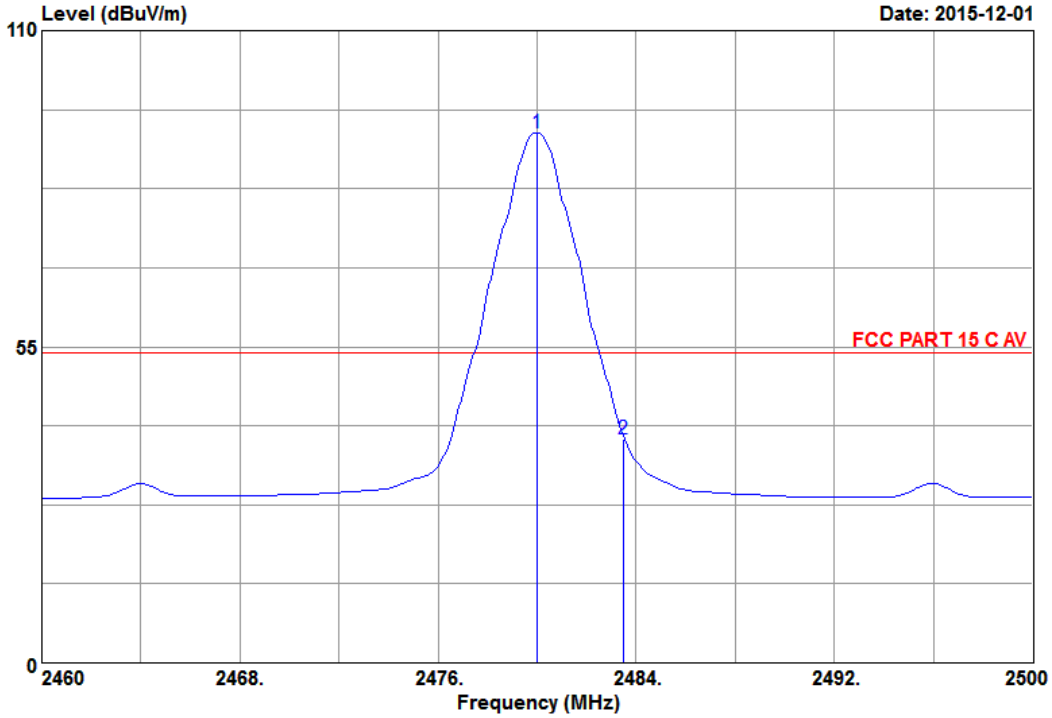
Data: 20 File: G:\Test Data\2015\Reports\10\G1510007.EM6 (26)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62960-150630
Limit : FCC PART 15 C AV
Env. / Ins. : 20.6*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 20
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.98	28.66	4.44	94.09	34.96	92.23	54.00	-38.23	Average
2	2483.50	28.66	4.44	40.92	34.96	39.06	54.00	14.94	Average

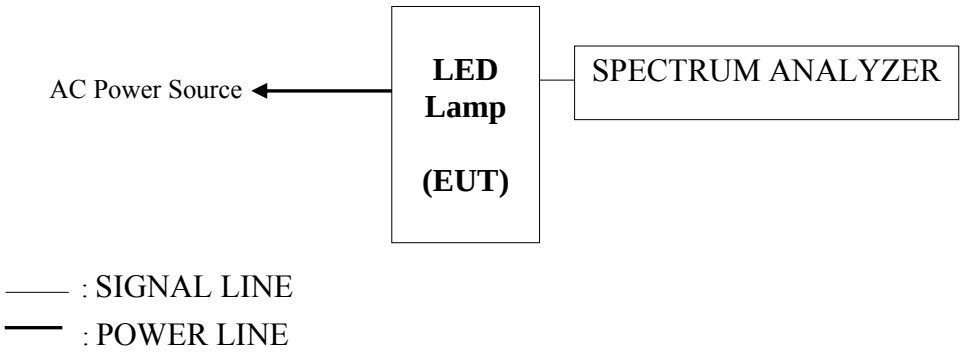
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

5. 6 dB BANDWIDTH MEASUREMENT

5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

5.2. Block Diagram of Test Setup



5.3. Specification Limits (§15.247(a)(2))

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

5.4. Test Procedure

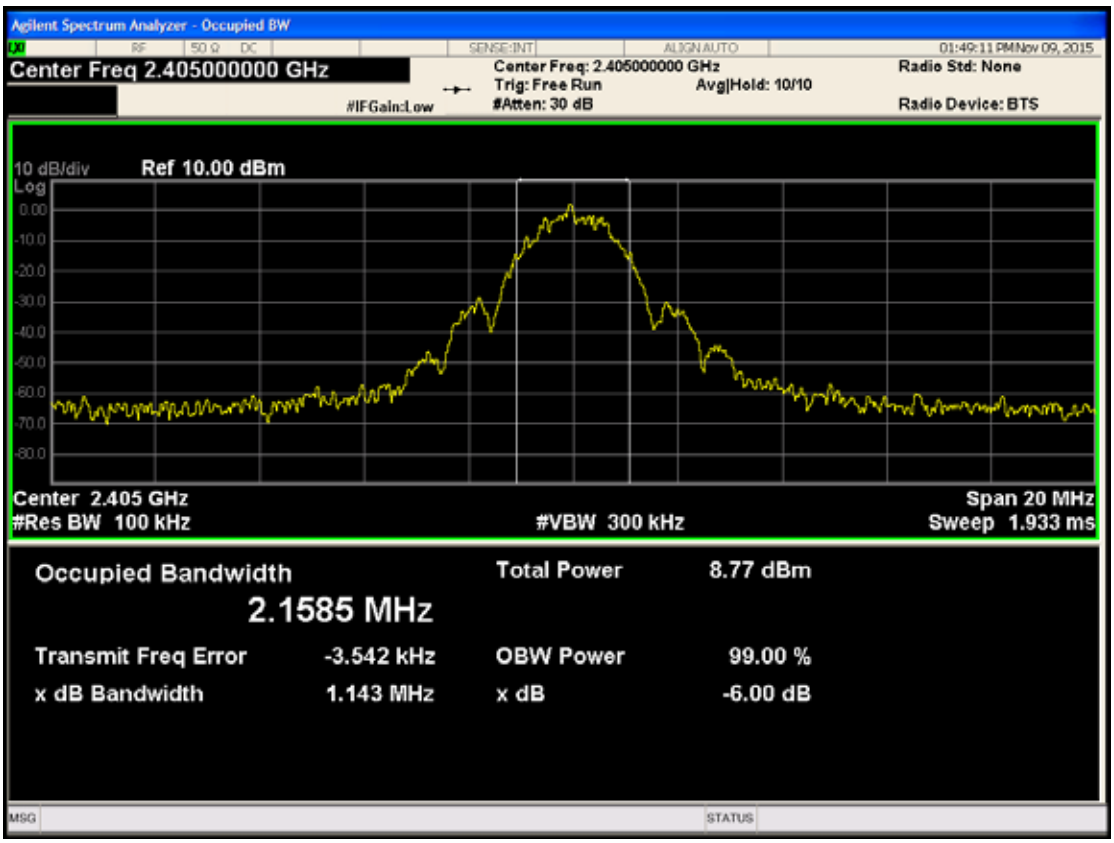
The transmitter output was connected to the test receiver / spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB. The measurement guideline was according to KDB558074 v03r02.

5.5. Test Results

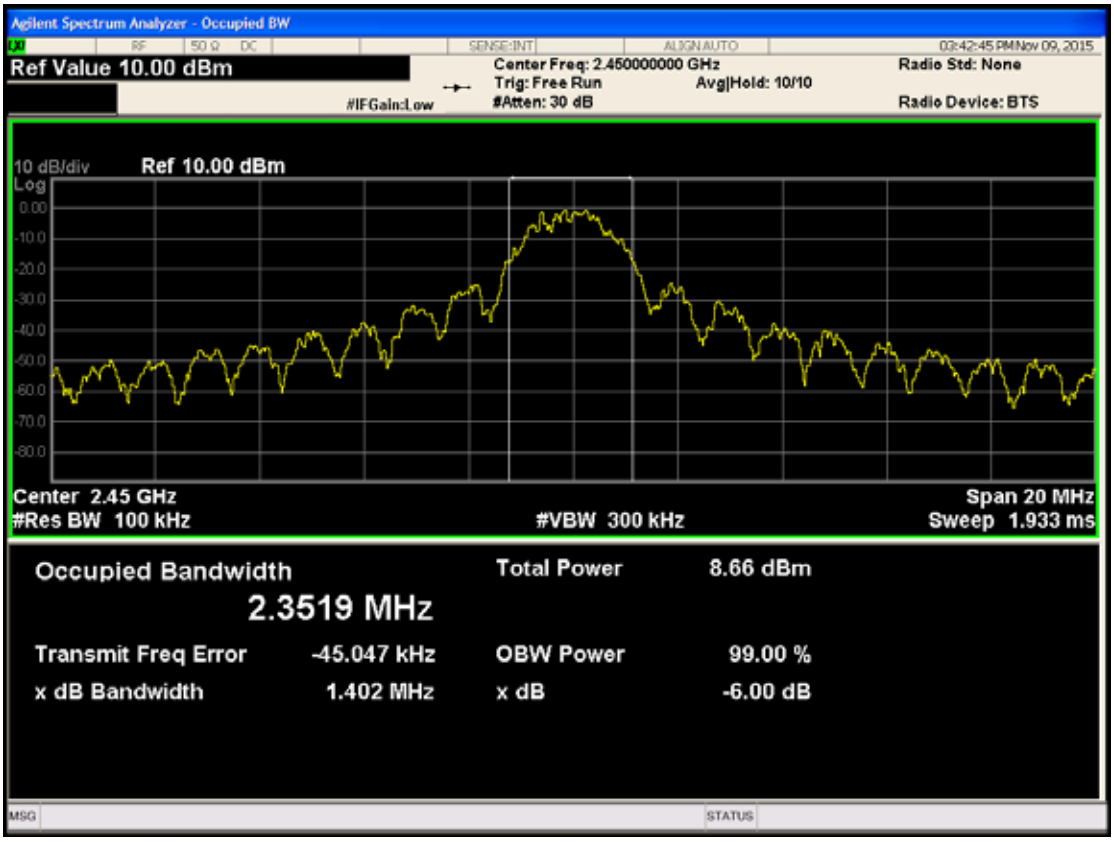
PASSED. All the test results are attached in next pages.

Channel	Center Frequency(MHz)	6 dB Bandwidth(MHz)
11	2405	**1.143**
20	2450	**1.402**
26	2480	**1.222**

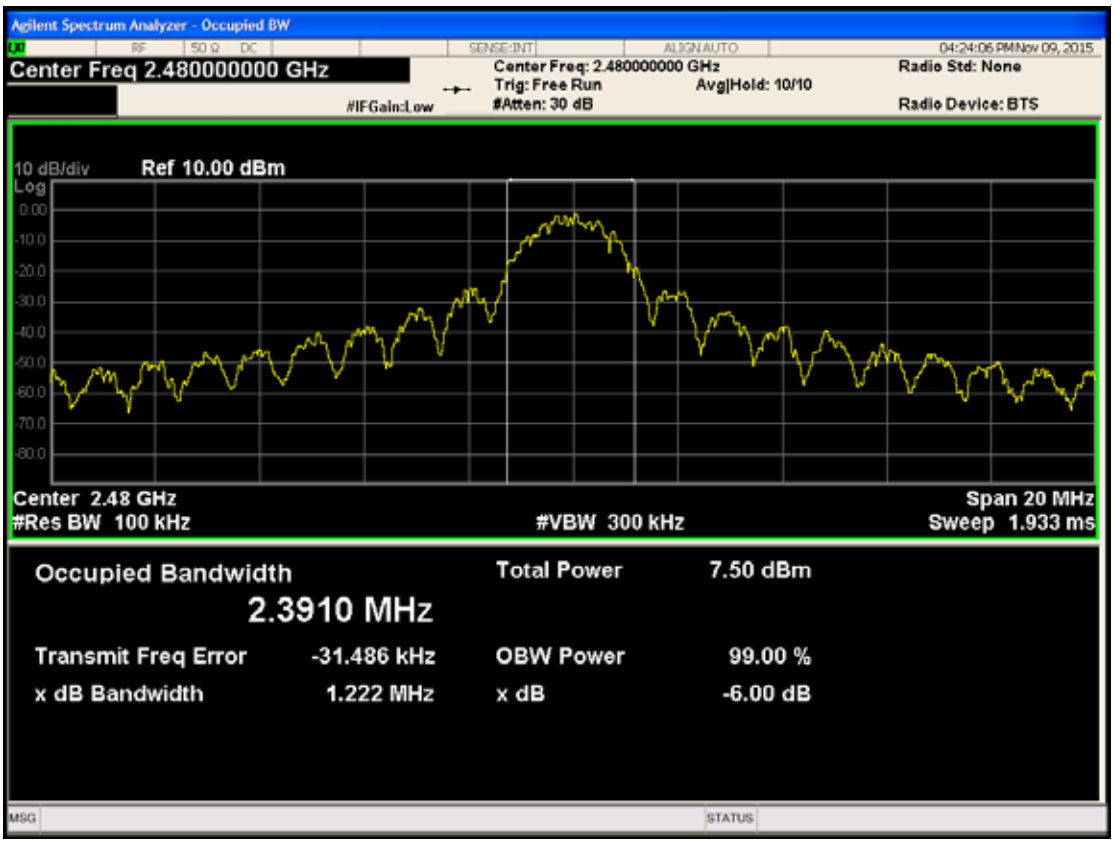
CH 11


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.405000000 GHz
Center Freq: 2.405000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
10 dB/div
Ref 10.00 dBm
Log
Center 2.405 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20 MHz
Sweep 1.933 ms
Occupied Bandwidth
2.1585 MHz
Total Power
8.77 dBm
Transmit Freq Error
-3.542 kHz
OBW Power
99.00 %
x dB Bandwidth
1.143 MHz
x dB
-6.00 dB
MSG
STATUS

CH 20


Agilent Spectrum Analyzer - Occupied BW
Ref Value 10.00 dBm
Center Freq: 2.450000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
10 dB/div
Ref 10.00 dBm
Log
Center 2.45 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20 MHz
Sweep 1.933 ms
Occupied Bandwidth
2.3519 MHz
Total Power
8.66 dBm
Transmit Freq Error
-45.047 kHz
OBW Power
99.00 %
x dB Bandwidth
1.402 MHz
x dB
-6.00 dB
MSG
STATUS

CH 26

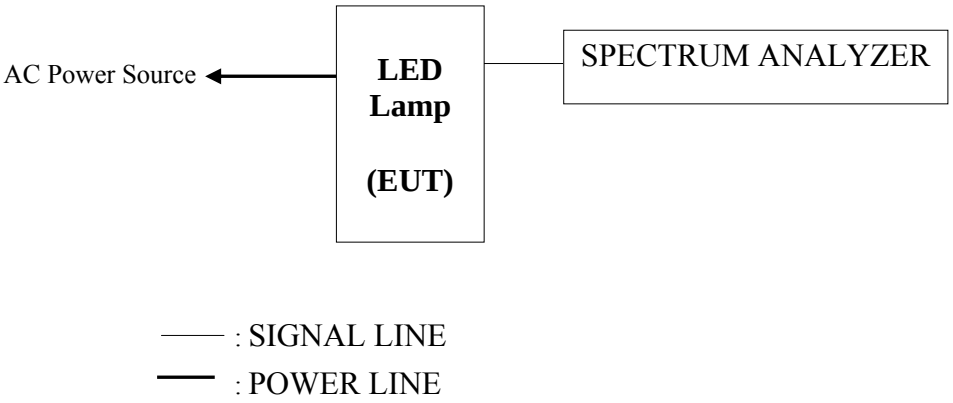

Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#IFGain:Low
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Ref 10.00 dBm
Log
Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20 MHz
Sweep 1.933 ms
Occupied Bandwidth
2.3910 MHz
Total Power
7.50 dBm
Transmit Freq Error
-31.486 kHz
OBW Power
99.00 %
x dB Bandwidth
1.222 MHz
x dB
-6.00 dB

6. OUTPUT POWER MEASUREMENT

6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

6.2. Block Diagram of Test Setup



6.3. Specification Limits (§15.247(b)(3))

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

6.4. Test Procedure

a) Set span to at least 1.5 times the OBW.
b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
c) Set VBW ≥ 3 x RBW.
d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
e) Sweep time = auto.
f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.5. Test Results

PASSED. All the test results are attached in next pages.

Channel	Frequency	Power(dBm)	Limit(dBm
11	2405	3.18	30
20	2450	3.23	30
26	2480	3.01	30

7. BAND EDGES MEASUREMENT

7.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

7.2. Block Diagram of Test Setup

The same as section 5.2.

7.3. Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

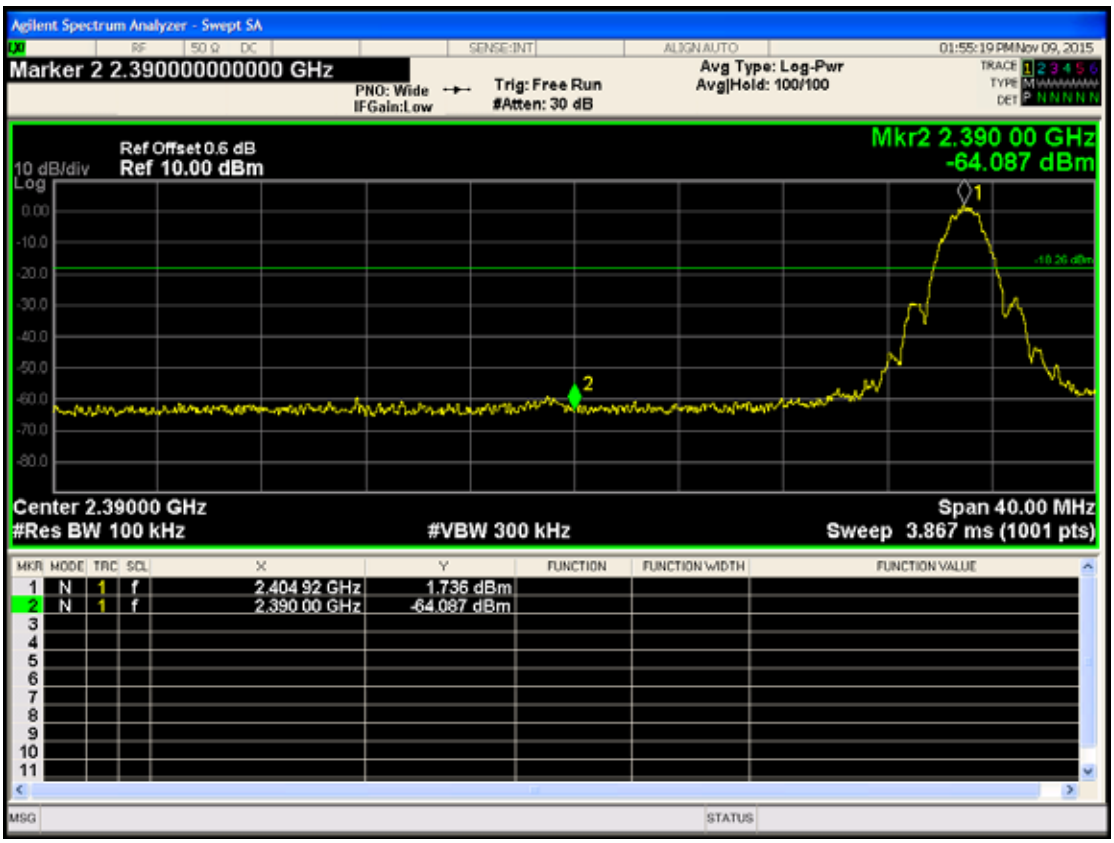
7.4. Test Procedure

The transmitter output was connected to the test receiver / spectrum analyzer. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz with suitable frequency span including 100kHz bandwidth from band edge.

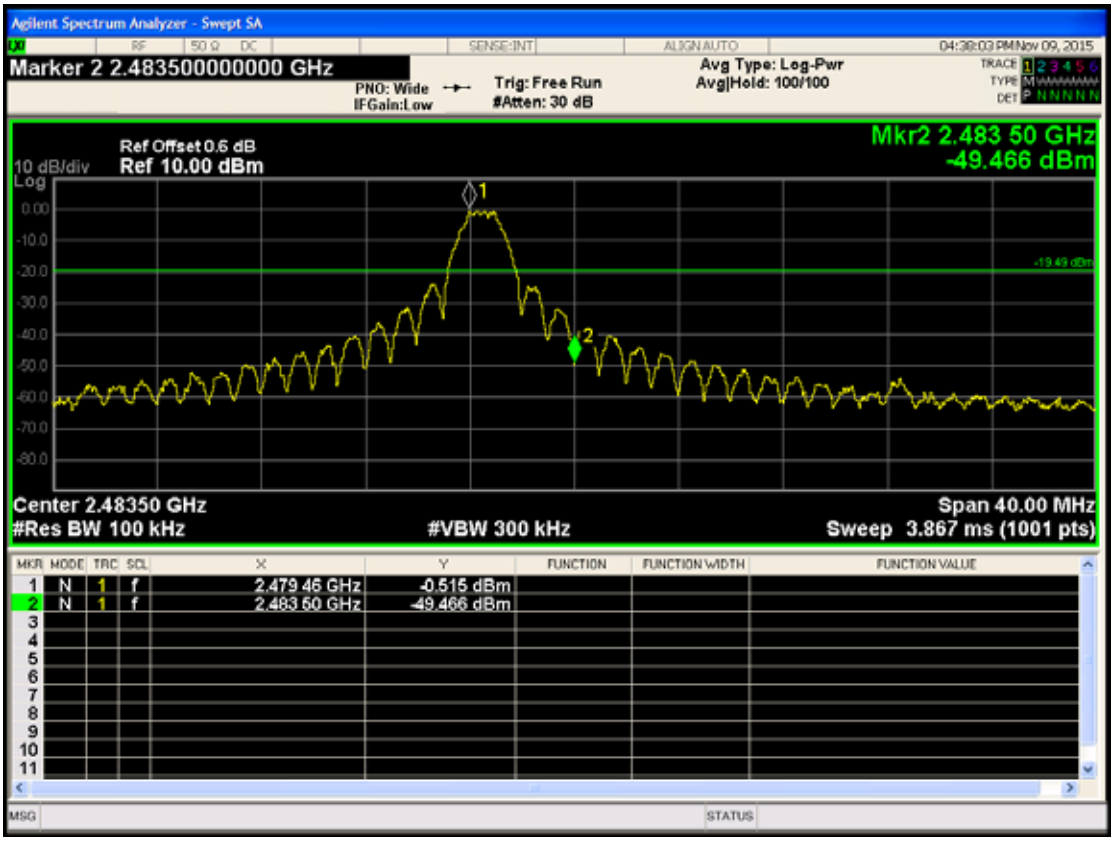
7.5. Test Results

PASSED. The testing data was attached in the next pages.

CH11


Agilent Spectrum Analyzer - Swept SA
Marker 2 2.390000000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
01:55:19 PM Nov 09, 2015
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 2.390 00 GHz
-64.087 dBm
Center 2.39000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms (1001 pts)
1 N 1 f 2.404 92 GHz 1.736 dBm
2 N 1 f 2.390 00 GHz -64.087 dBm

CH26


Agilent Spectrum Analyzer - Swept SA
Marker 2 2.483500000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
04:38:03 PM Nov 09, 2015
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 2.483 50 GHz
-49.466 dBm
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms (1001 pts)
1 N 1 f 2.479 46 GHz -0.515 dBm
2 N 1 f 2.483 50 GHz -49.466 dBm

8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

8.2. Block Diagram of Test Setup

The same as section 5.2.

8.3. Specification Limits (§15.247(e))

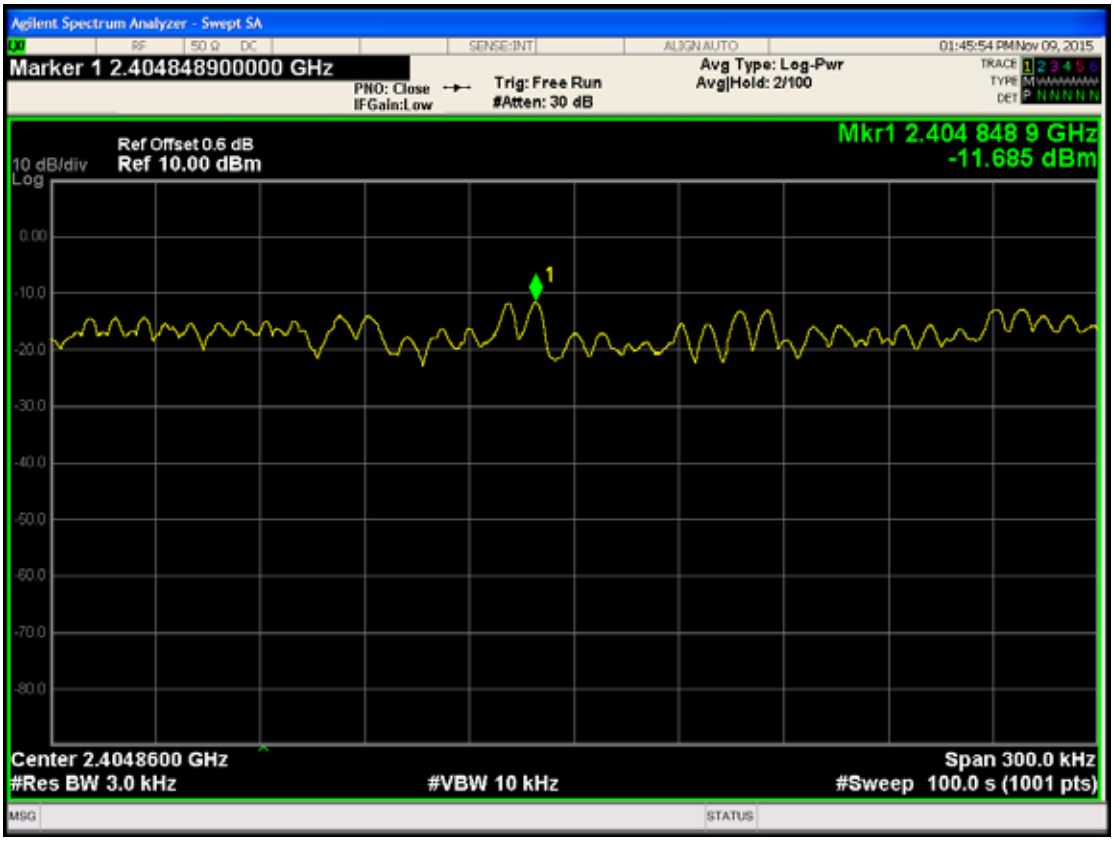
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.4. Test Results

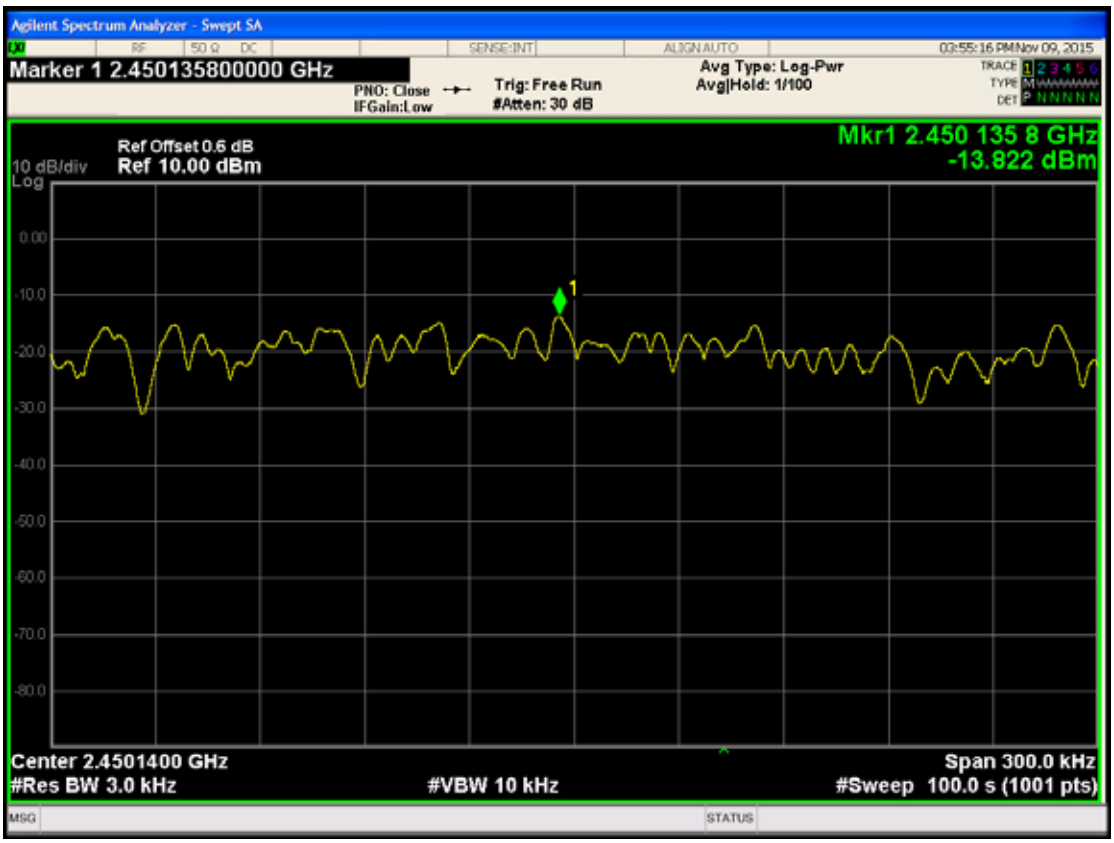
PASSED. All the test results are attached in next page.

Channel	Frequency(GHz)	Value(dBm/3kHz)
11	2.405	-11.685
20	2.450	-13.822
26	2.480	-13.997

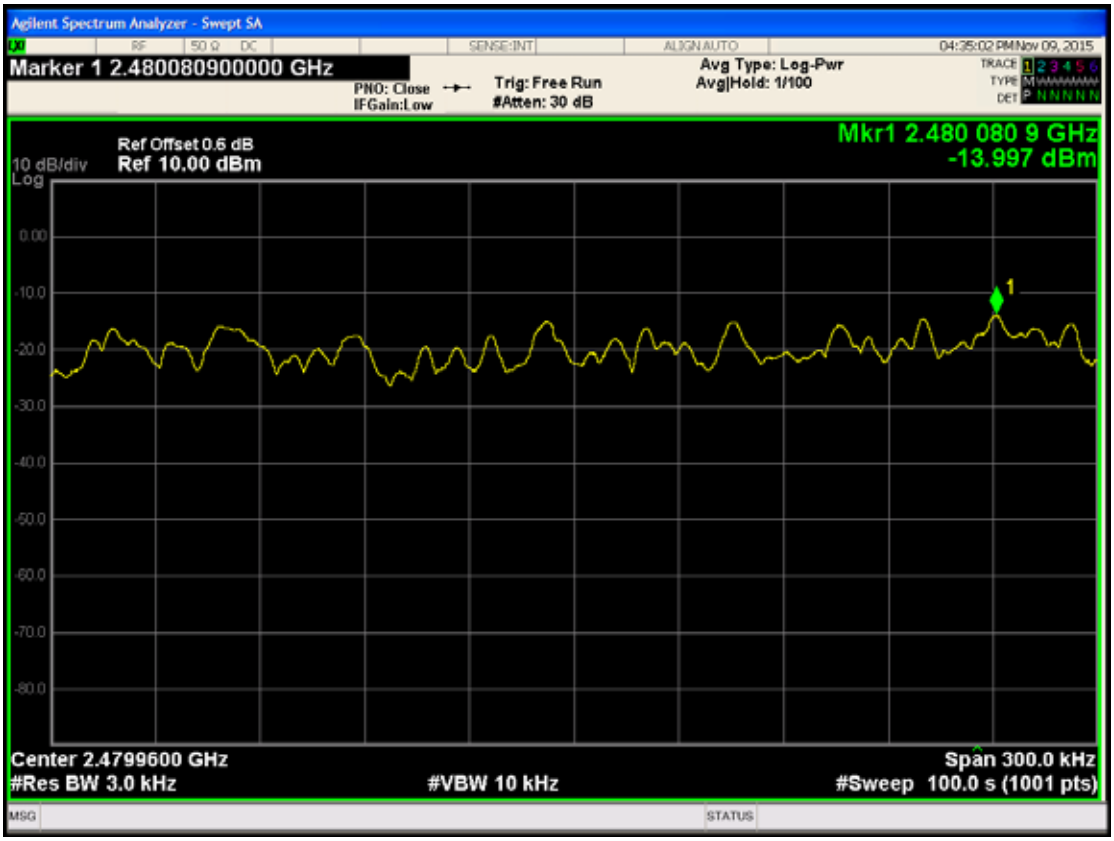
CH 11


Agilent Spectrum Analyzer - Swept SA
Marker 1 2.404848900000 GHz
PNO: Close
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 2/100
01:45:54 PM Nov 09, 2015
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 2.404 848 9 GHz
-11.685 dBm
Center 2.4048600 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 300.0 kHz
#Sweep 100.0 s (1001 pts)
MSG
STATUS

CH 20


Agilent Spectrum Analyzer - Swept SA
Marker 1 2.450135800000 GHz
PNO: Close
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 1/100
03:55:16 PM Nov 09, 2015
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 2.450 135 8 GHz
-13.822 dBm
Center 2.4501400 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 300.0 kHz
#Sweep 100.0 s (1001 pts)
MSG
STATUS

CH 26


Agilent Spectrum Analyzer - Swept SA
Marker 1 2.480080900000 GHz
PNO: Close
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 1/100
04:35:02 PM Nov 09, 2015
Ref Offset 0.6 dB
10 dB/div
Log
Ref 10.00 dBm
Mkr1 2.480 080 9 GHz
-13.997 dBm
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
Center 2.4799600 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 300.0 kHz
#Sweep 100.0 s (1001 pts)

9. EMISSION LIMITATIONS MEASUREMENT

9.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

9.2. Block Diagram of Test Setup

The same as section 5.2.

9.3. Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

9.4. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set RBW = 100kHz, VBW ≥ 300 kHz, scan up through 10^{th} harmonic. All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The measurement guideline was according to KDB558074 v03r02.

9.5. Test Results

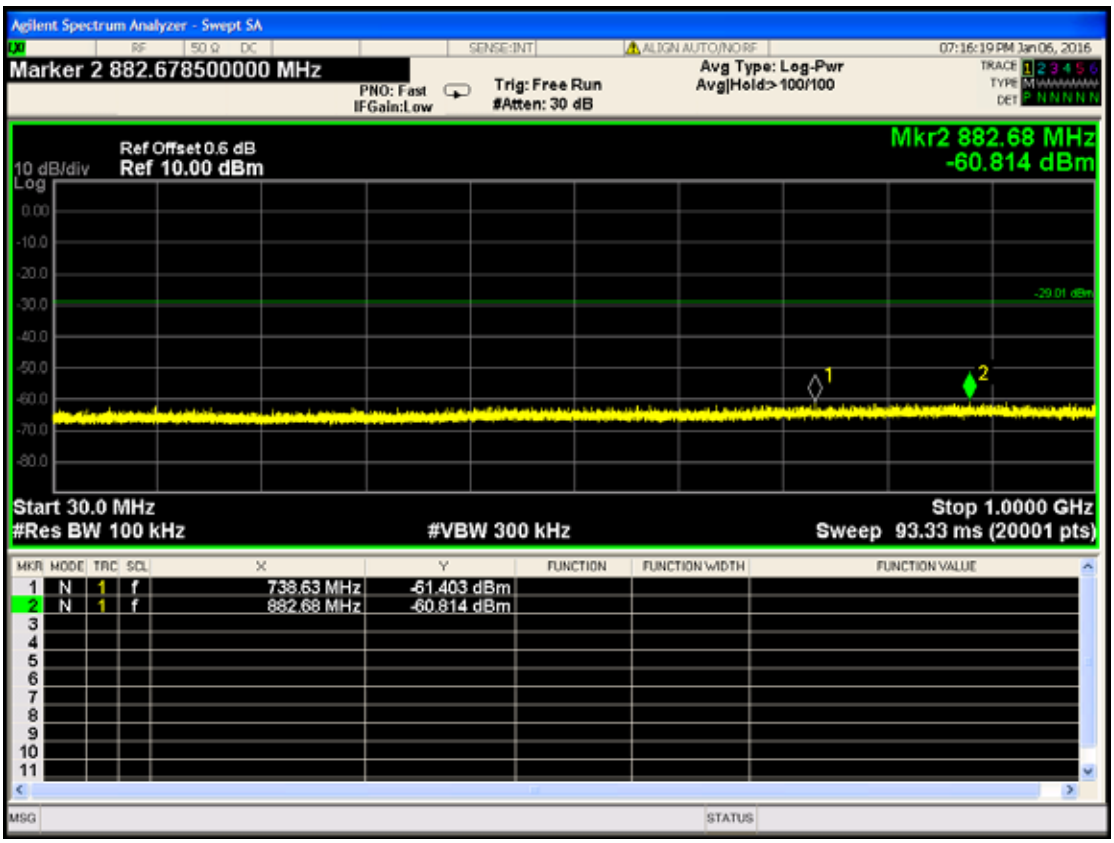
PASSED. All the test results are attached in next pages.

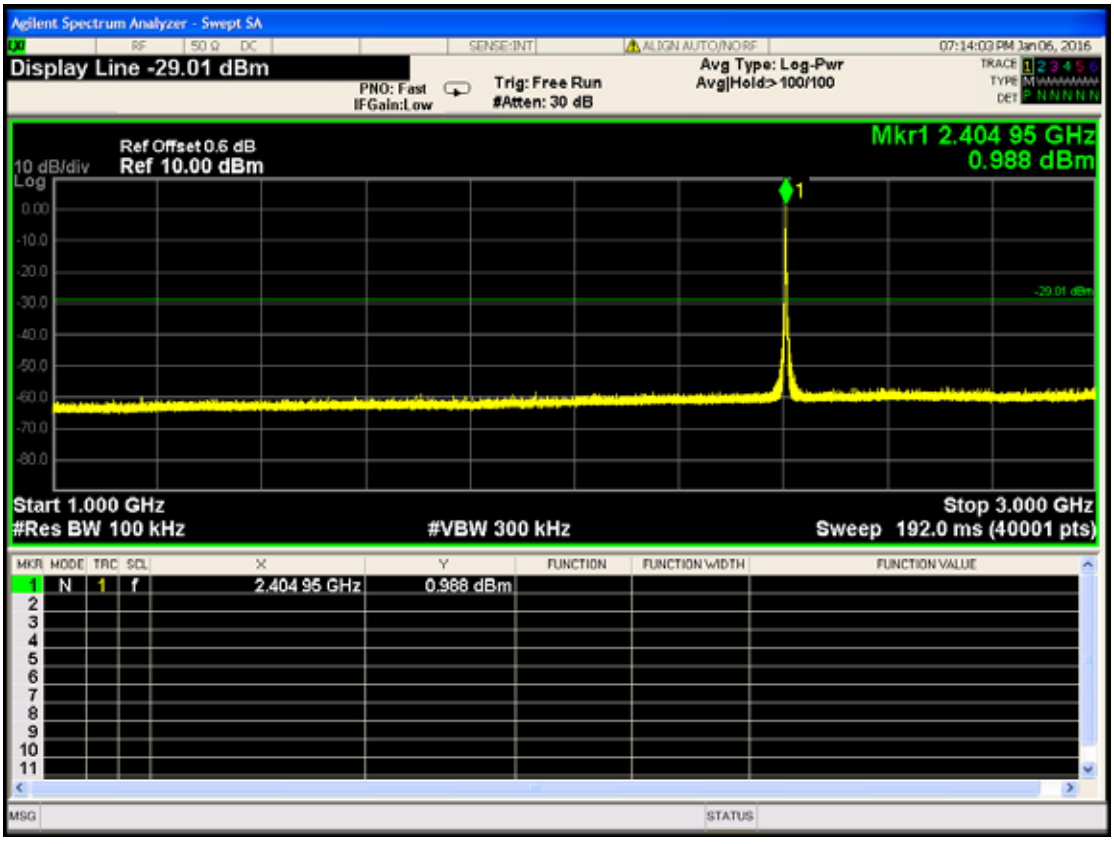
Channel	Frequency(MHz)	Amplitude(dBm)
11	738.63	-61.403
	882.68	-60.814
	2404.95	0.988
	3699.60	-55.255
	4810.00	-58.129
	5015.15	-56.039
	5900.45	-56.716
	7245.00	-56.355
	8092.65	-56.599
	10585.40	-55.643
	9877.25	-58.113
	12376.10	-56.153
	11961.05	-57.013
	13686.40	-55.797
	14016.80	-55.946
	15083.55	-55.182
	16039.95	-56.019
	18782.75	-54.306
	17813.65	-55.174
	19104.75	-53.865
	20246.85	-54.972
	22356.60	-53.231
	21984.20	-53.455
	23721.75	-52.905
	24646.70	-54.427
20	826.81	-60.630
	599.20	-61.164
	2449.90	0.278
	3845.30	-55.123
	4210.60	-56.567
	5024.75	-56.512
	6442.85	-56.973

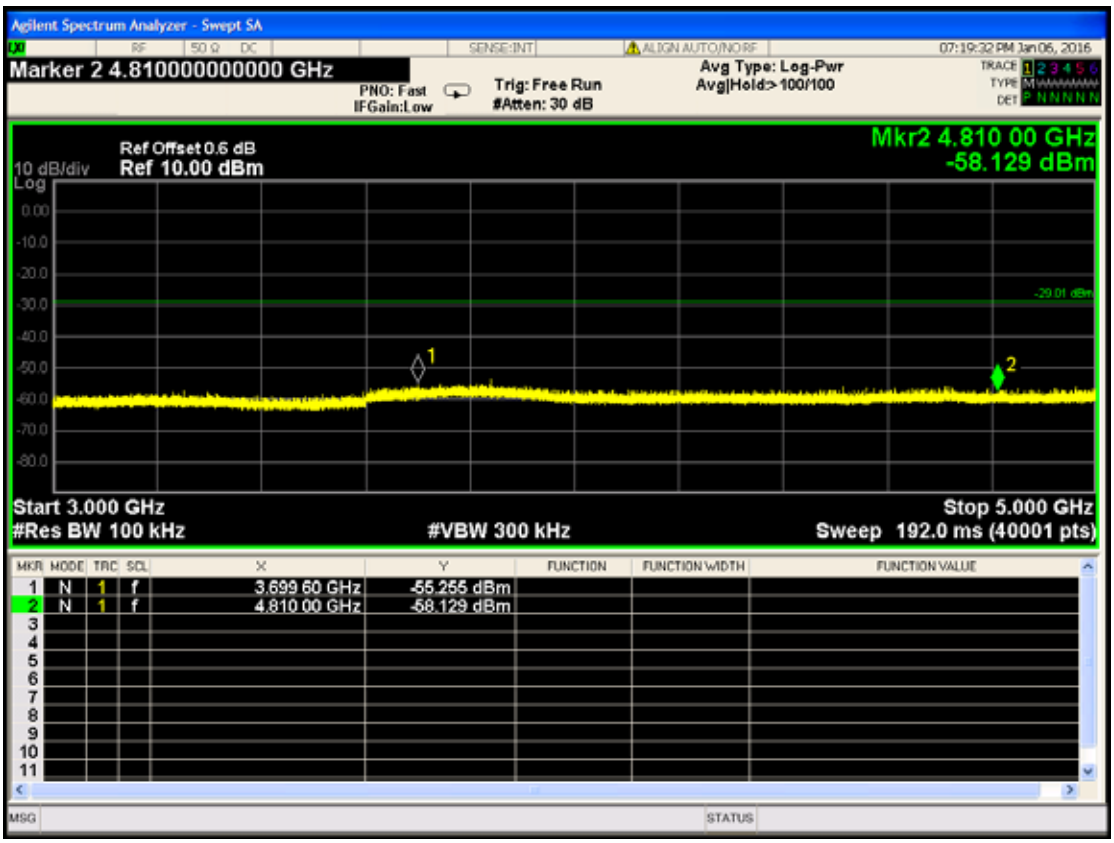
	8817.65	-55.462
	8385.85	-56.125
	9711.65	-55.522
	10562.60	-55.823
	12370.70	-54.852
	11869.15	-57.094
	13648.00	-54.840
	14373.05	-55.882
	15822.00	-55.580
	16505.65	-55.899
	18930.75	-54.793
	18462.10	-54.419
	19051.25	-54.012
	20588.45	-54.488
	22641.35	-52.801
	22573.10	-53.265
	23363.50	-53.107
	24307.10	-53.419
26	846.98	-60.202
	721.37	-59.774
	2479.90	0.650
	3757.65	-54.859
	4678.05	-46.420
	5097.55	-55.495
	6406.30	-56.495
	8117.25	-55.645
	7339.55	-56.076
	9760.20	-56.160
	10121.55	-56.559
	11437.70	-57.391
	12321.90	-55.859
	14080.80	-55.358
	13659.70	-55.578
	16060.30	-55.472
	15937.35	-55.792
	18593.45	-53.942
	18865.05	-53.622

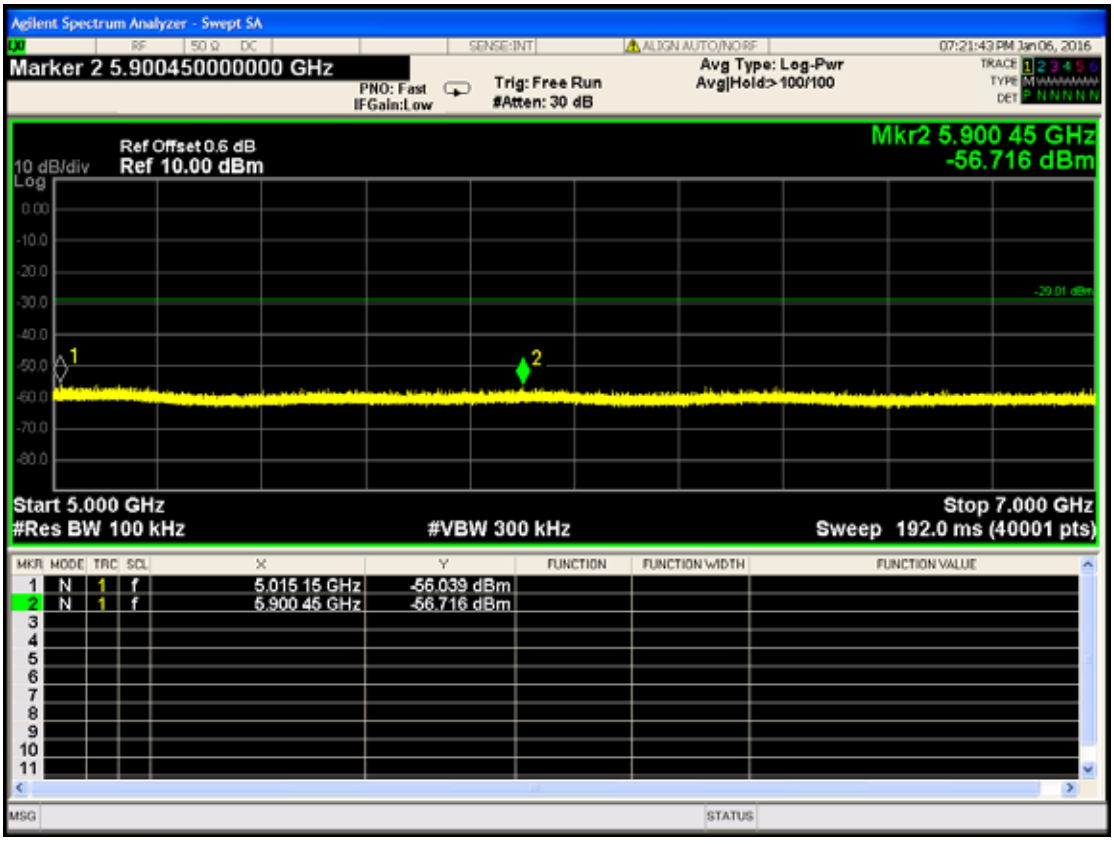
	19104.25	-54.254
	20702.25	-54.573
	22538.85	-53.200
	22321.45	-53.407
	23591.15	-52.820
	23885.15	-53.038

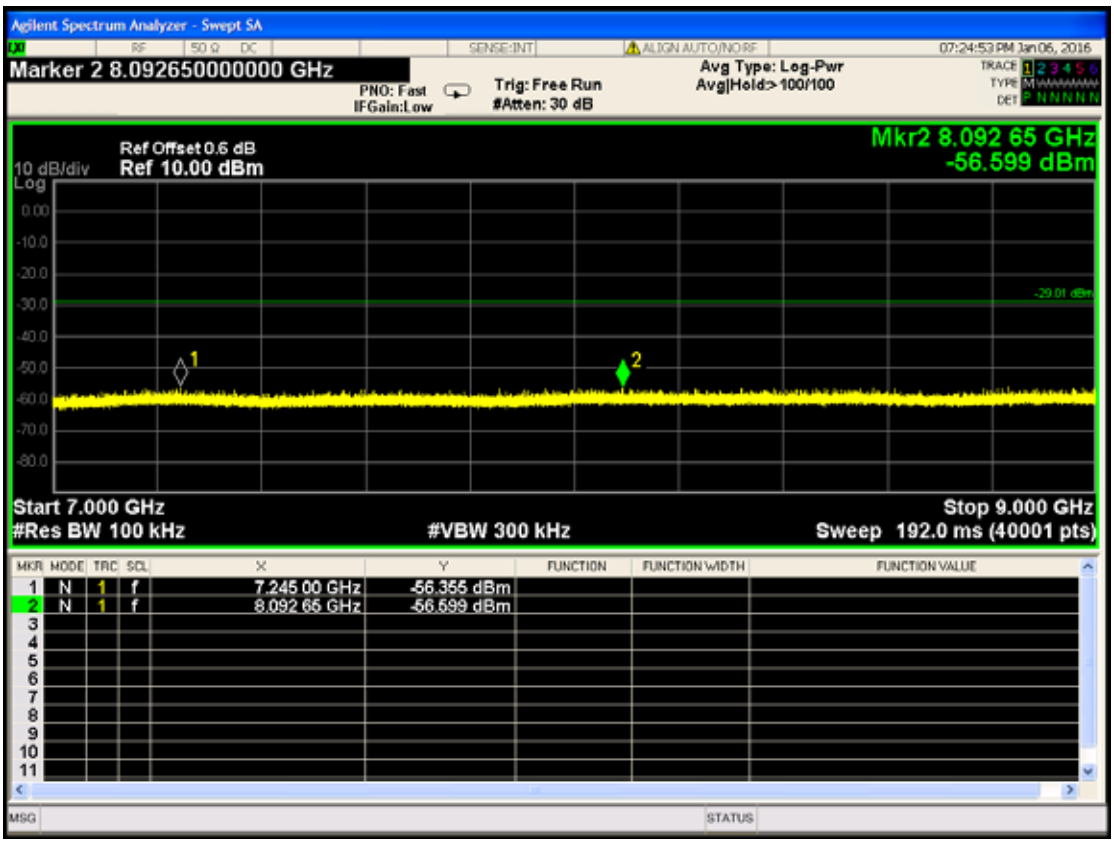
CH 11

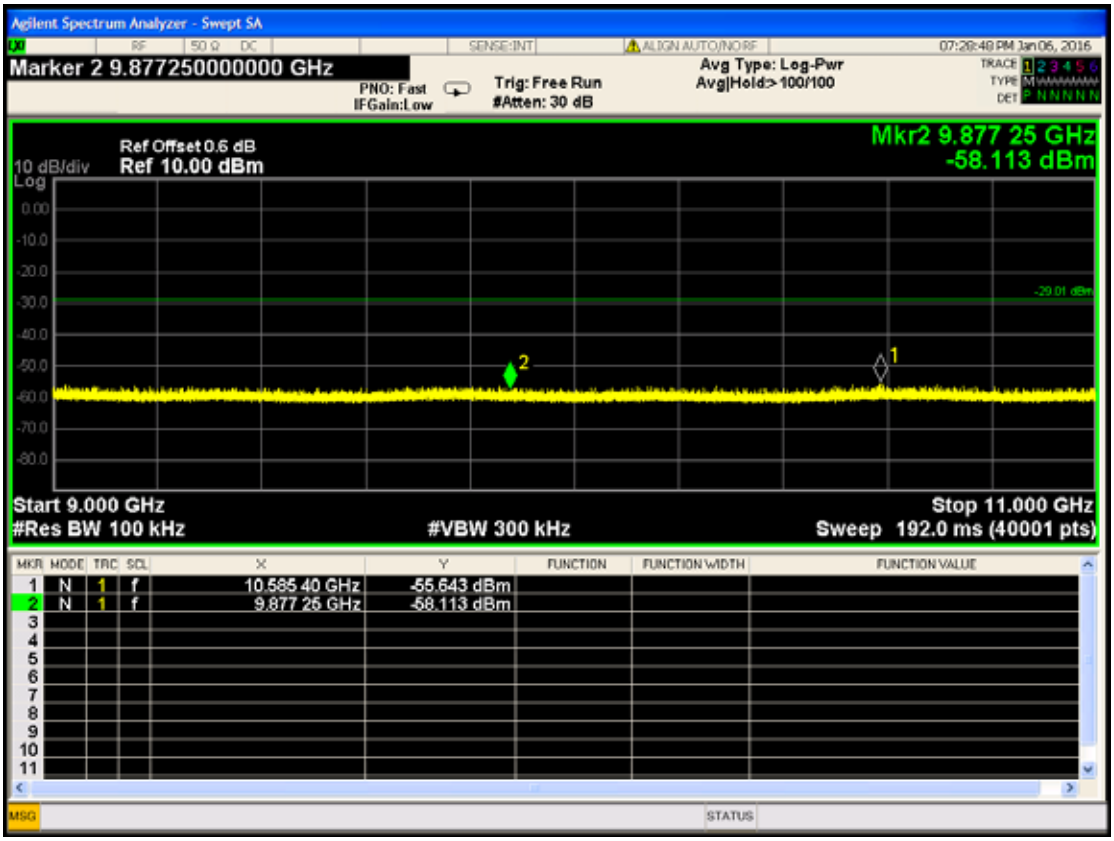

Agilent Spectrum Analyzer - Swept SA
Marker 2 882.678500000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:16:19 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 882.68 MHz
-60.814 dBm
-29.01 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (20001 pts)
1 N 1 f 738.63 MHz -61.403 dBm
2 N 1 f 882.68 MHz -60.814 dBm

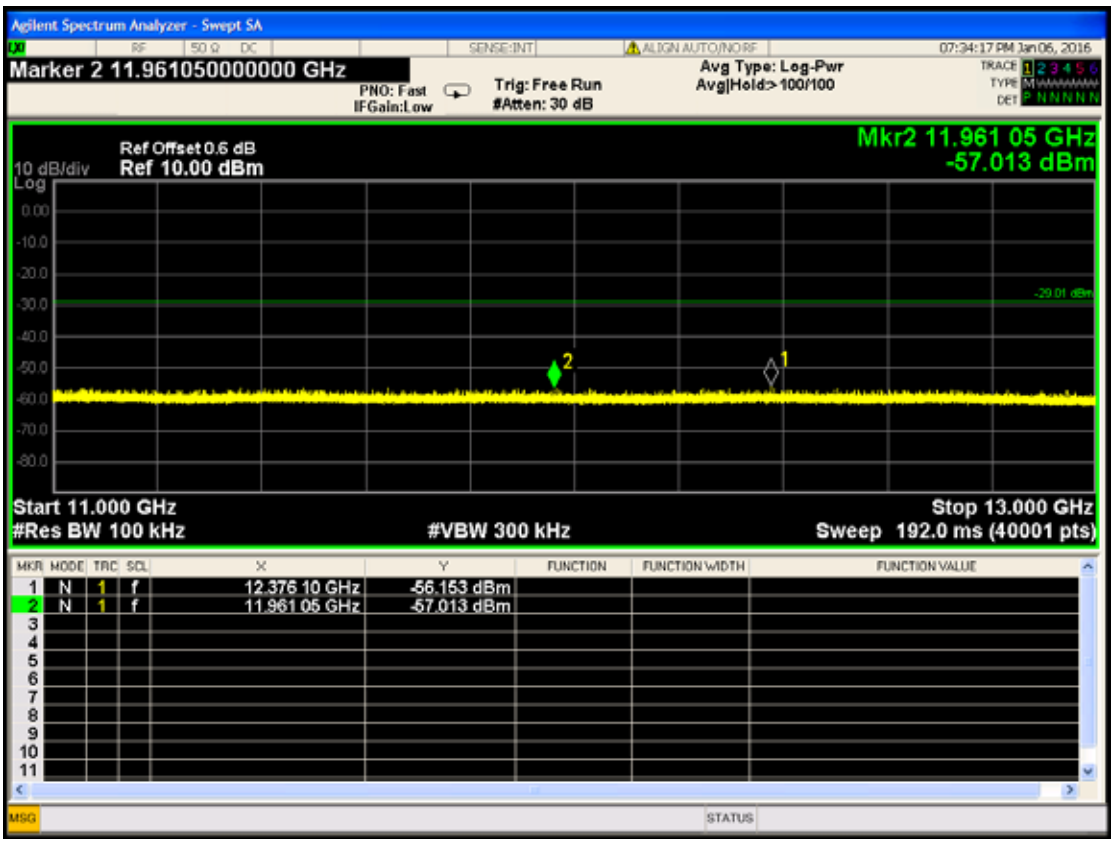

Agilent Spectrum Analyzer - Swept SA
Display Line -29.01 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:14:03 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 2.404 95 GHz
0.988 dBm
-29.01 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 3.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 2.404 95 GHz 0.988 dBm

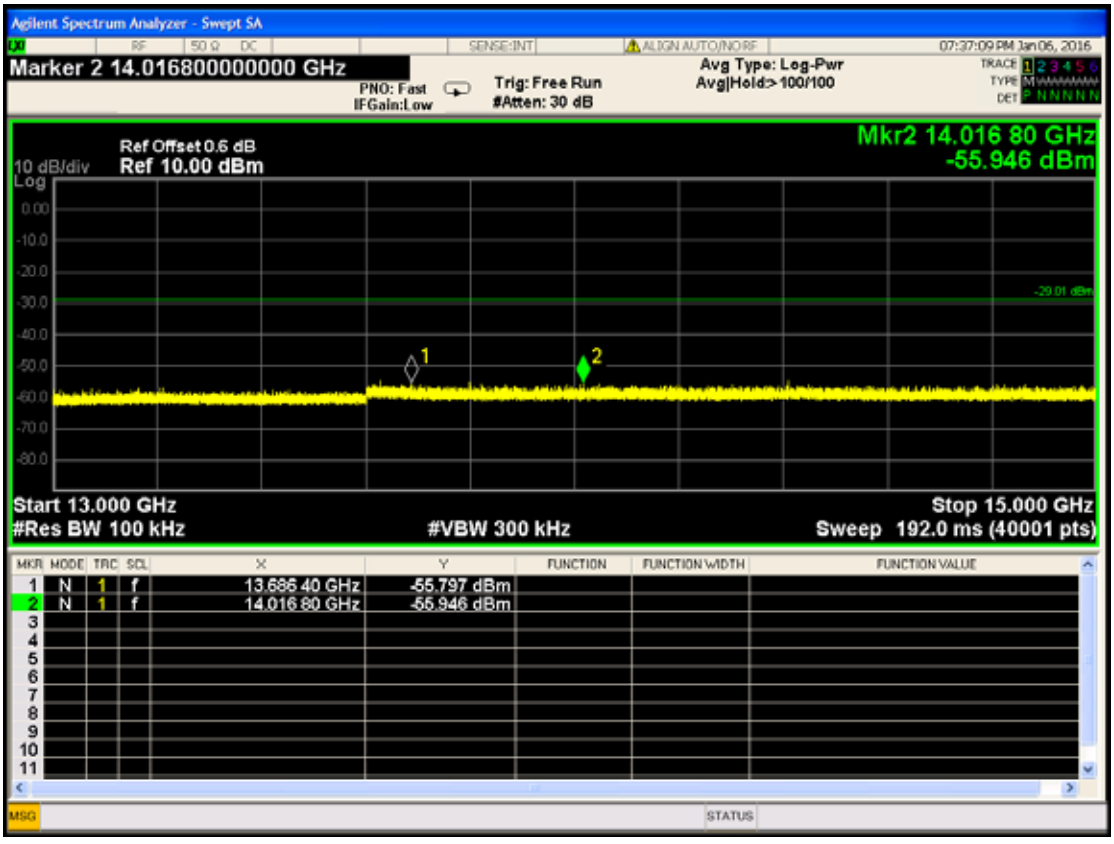

Agilent Spectrum Analyzer - Swept SA
Marker 2 4.810000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:19:32 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 4.810 00 GHz
-58.129 dBm
-29.01 dBm
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 3.699 60 GHz -55.255 dBm
2 N 1 f 4.810 00 GHz -58.129 dBm

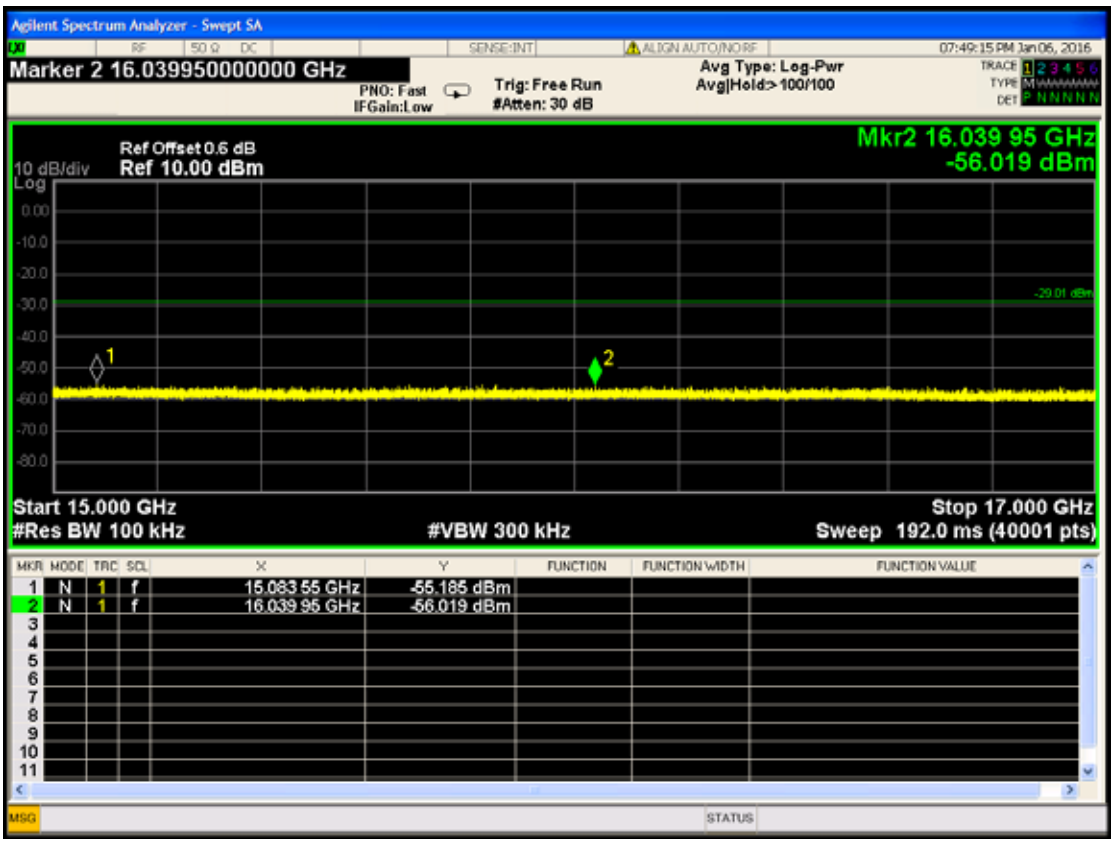

Agilent Spectrum Analyzer - Swept SA
Marker 2 5.900450000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:21:43 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 5.900 45 GHz
-56.716 dBm
-29.01 dBm
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 7.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 5.015 15 GHz -56.039 dBm
2 N 1 f 5.900 45 GHz -56.716 dBm

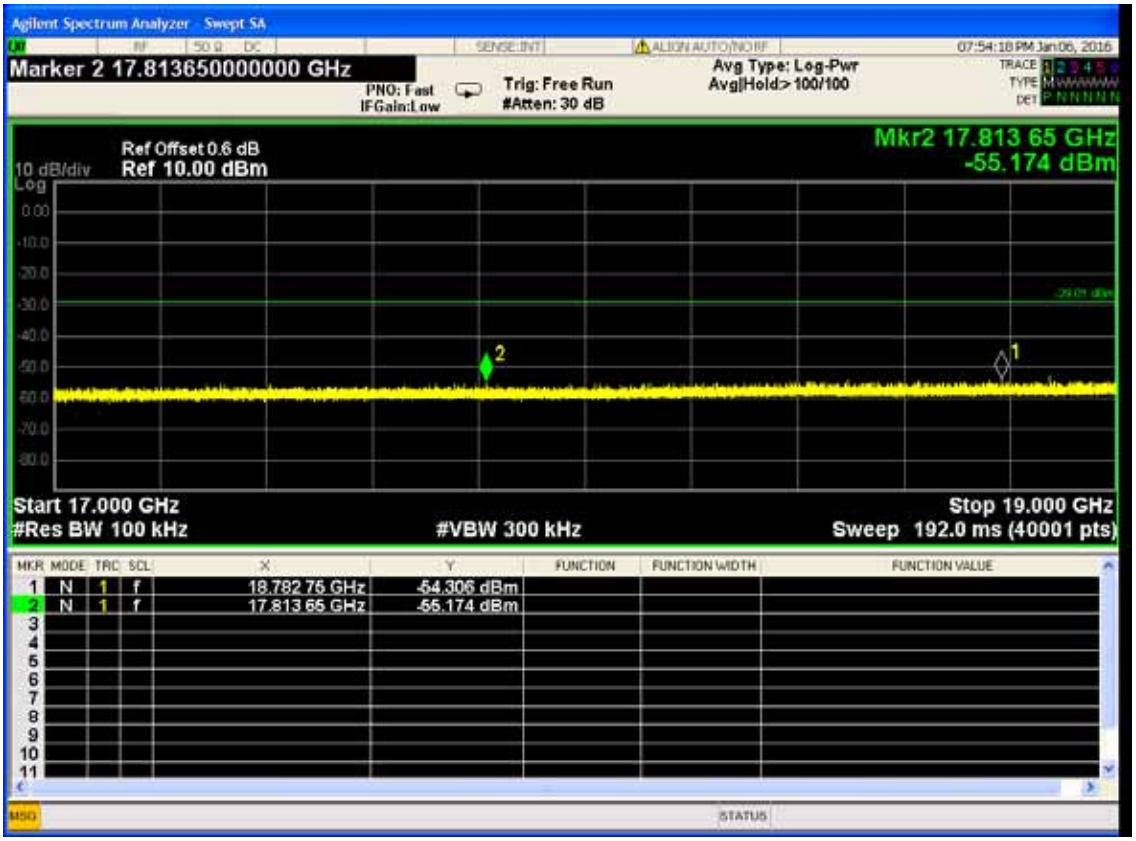

Agilent Spectrum Analyzer - Swept SA
Marker 2 8.092650000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 8.092 65 GHz
-56.599 dBm
-29.01 dBm
Start 7.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 9.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 7.245 00 GHz -56.355 dBm
2 N 1 f 8.092 65 GHz -56.599 dBm

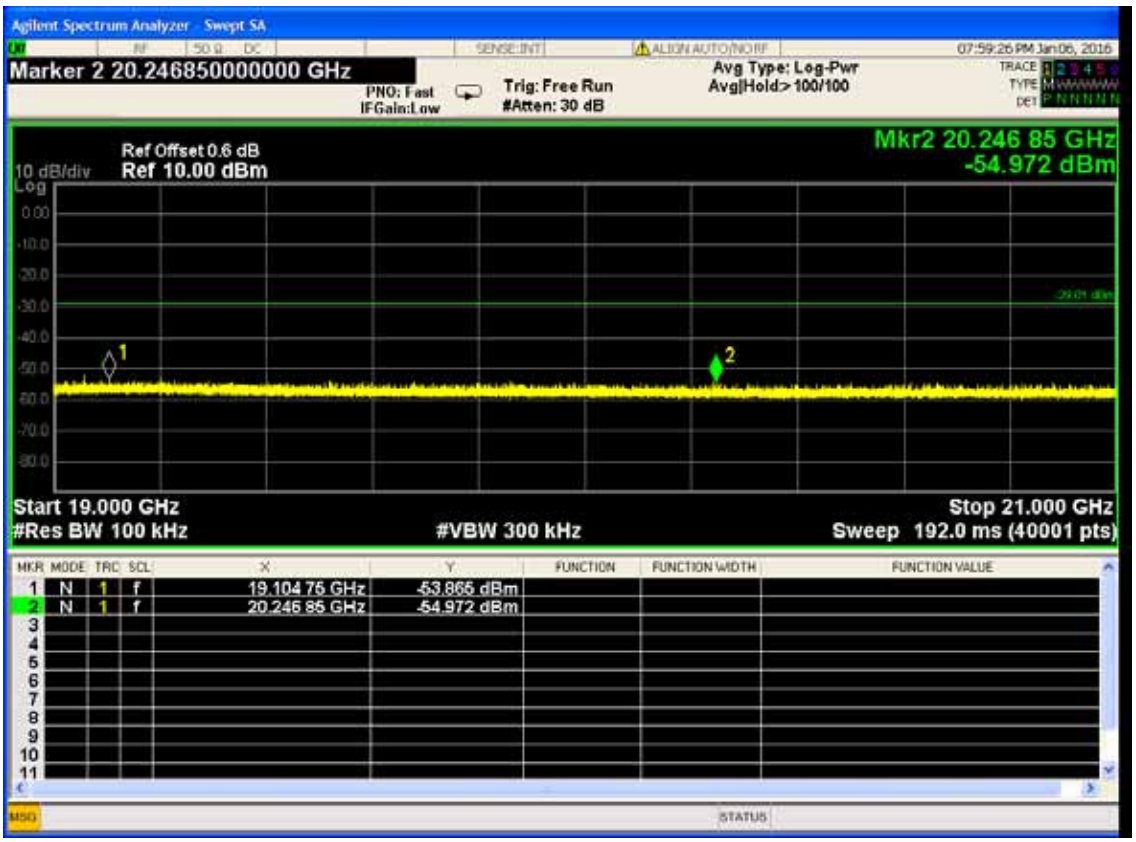

Agilent Spectrum Analyzer - Swept SA
Marker 2 9.877250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 9.877 25 GHz
-58.113 dBm
-29.01 dBm
Start 9.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 11.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 10.585 40 GHz -55.643 dBm
2 N 1 f 9.877 25 GHz -58.113 dBm

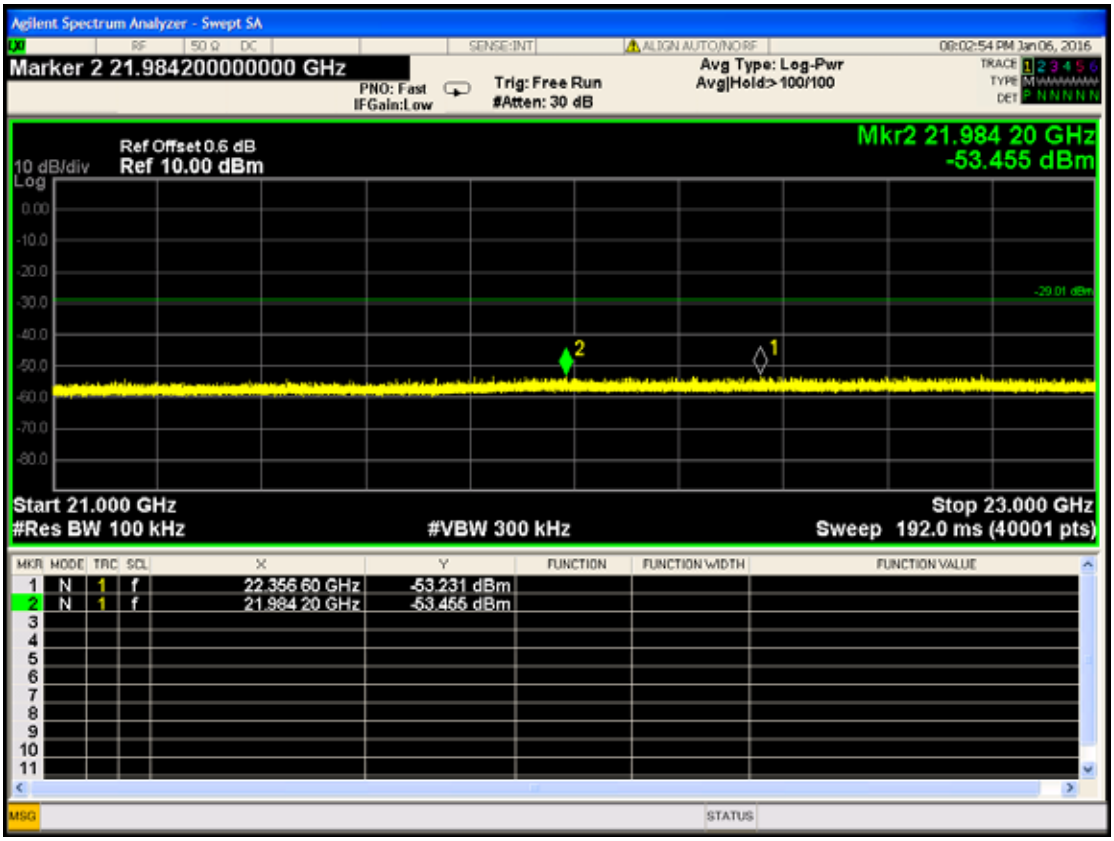

Agilent Spectrum Analyzer - Swept SA
Marker 2 11.961050000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:34:17 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 11.961 05 GHz
-57.013 dBm
-29.01 dBm
Start 11.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 13.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 12.376 10 GHz -56.153 dBm
2 N 1 f 11.961 05 GHz -57.013 dBm

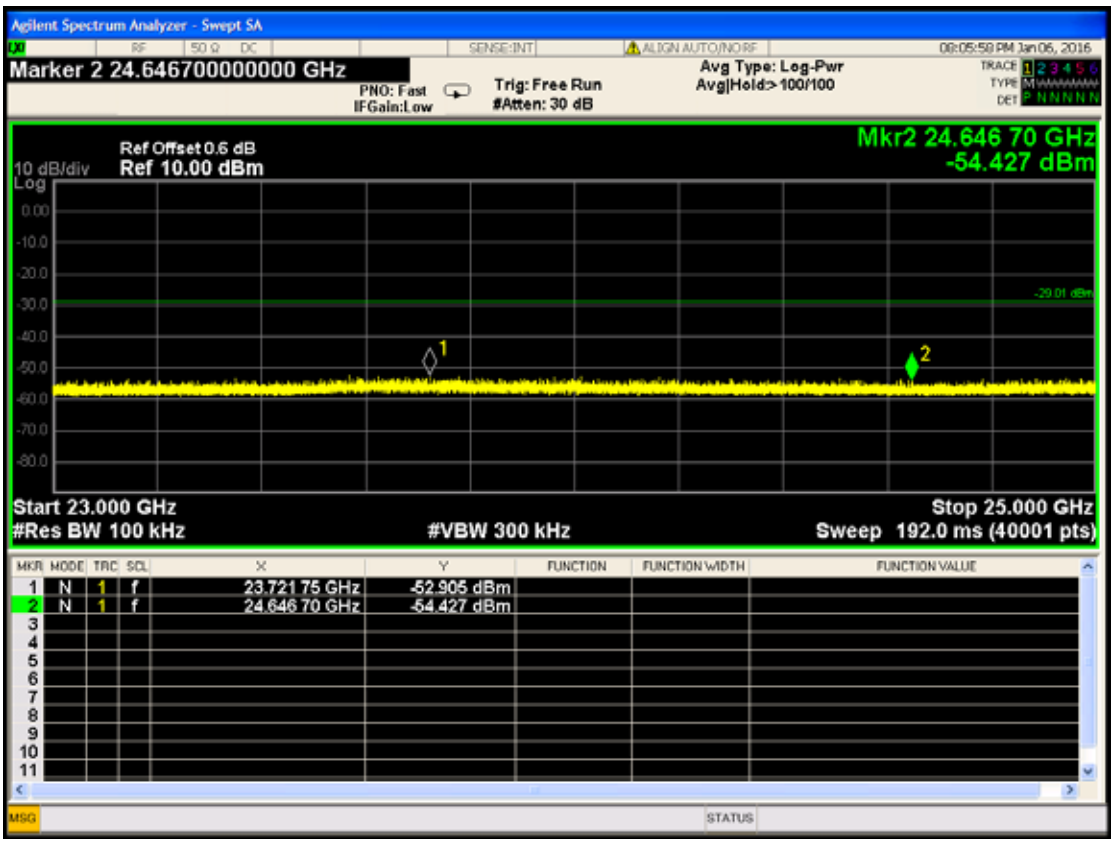

Agilent Spectrum Analyzer - Swept SA
Marker 2 14.016800000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:37:09 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 14.016 80 GHz
-55.946 dBm
-29.01 dBm
Start 13.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 13.686 40 GHz -55.797 dBm
2 N 1 f 14.016 80 GHz -55.946 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 16.039950000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:49:15 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 16.039 95 GHz
-56.019 dBm
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 17.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 15.083 55 GHz -55.185 dBm
2 N 1 f 16.039 95 GHz -56.019 dBm

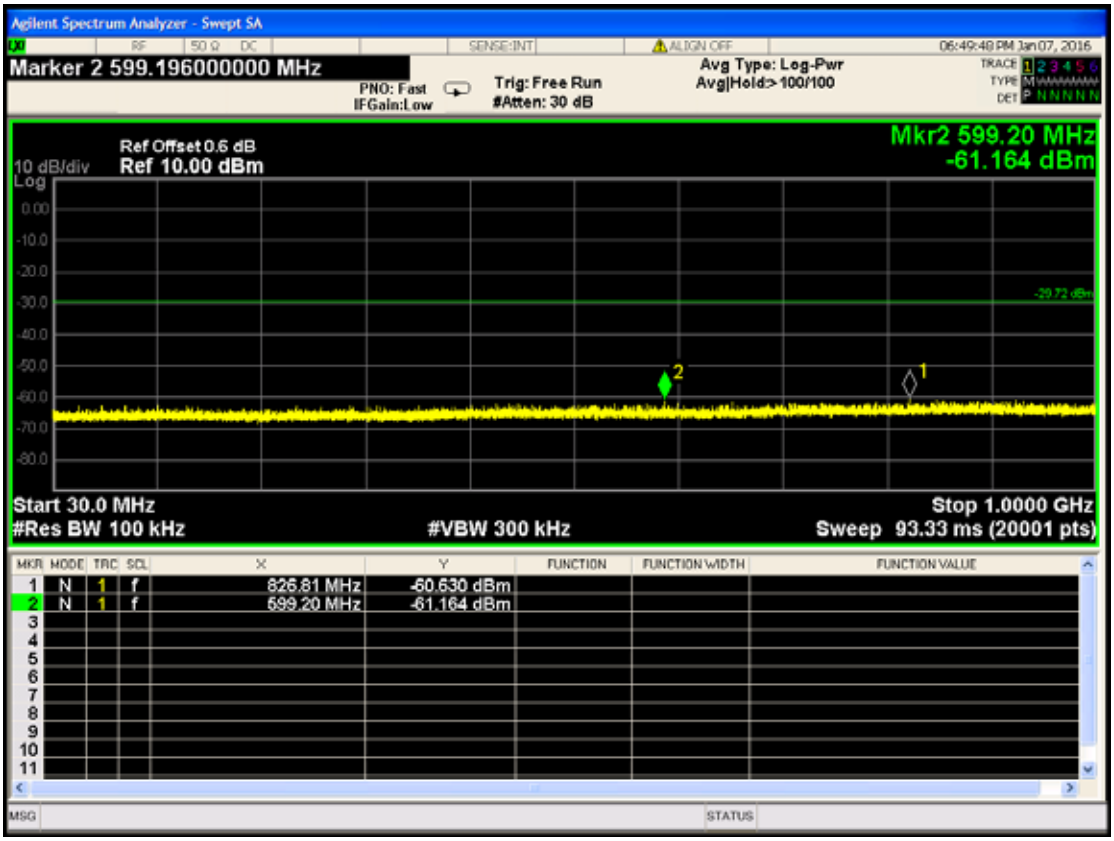

Agilent Spectrum Analyzer - Swept SA
Marker 2 17.813650000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:54:18 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 17.813 65 GHz
-55.174 dBm
Start 17.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 19.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 18.782 75 GHz -54.306 dBm
2 N 1 f 17.813 65 GHz -55.174 dBm

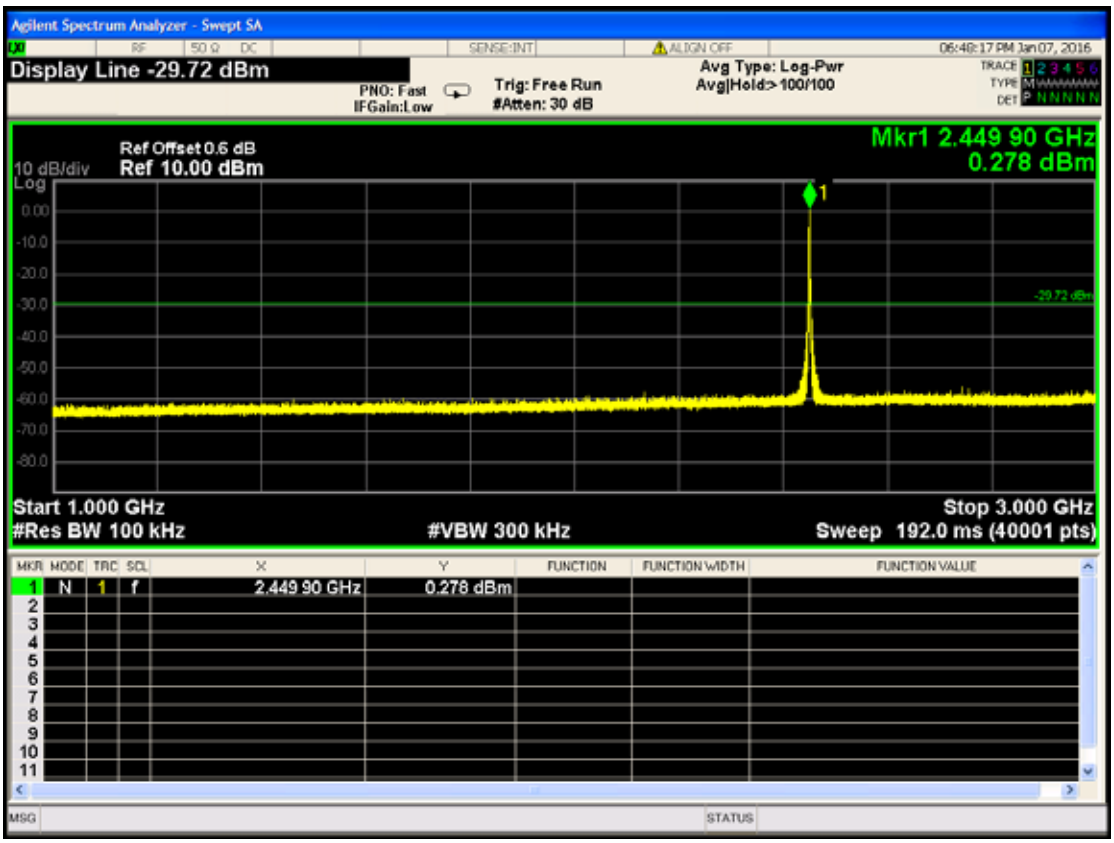

Agilent Spectrum Analyzer - Swept SA
Marker 2 20.246850000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:59:26 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 20.246 85 GHz
-54.972 dBm
Start 19.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 21.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 19.104 75 GHz -53.865 dBm
2 N 1 f 20.246 85 GHz -54.972 dBm

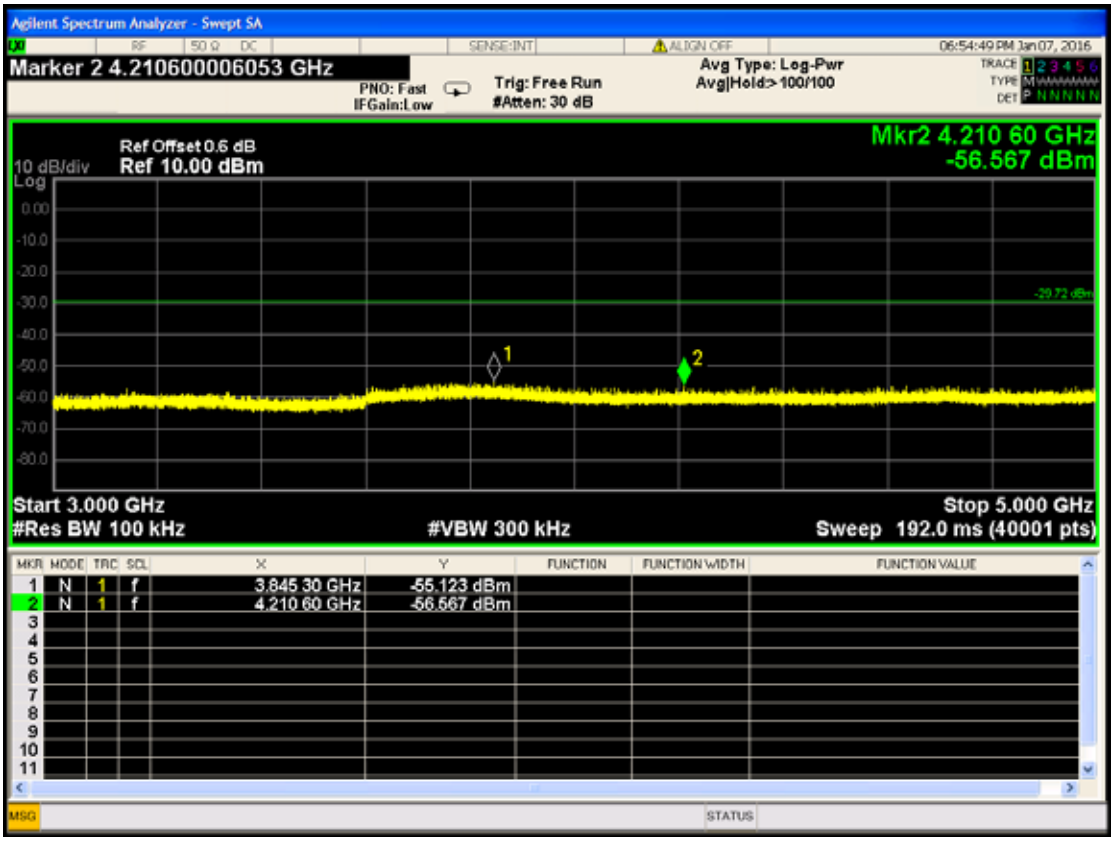

Agilent Spectrum Analyzer - Swept SA
Marker 2 21.984200000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
08:02:54 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 21.984 20 GHz
-53.455 dBm
Start 21.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 23.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 22.356 60 GHz -53.231 dBm
2 N 1 f 21.984 20 GHz -53.455 dBm

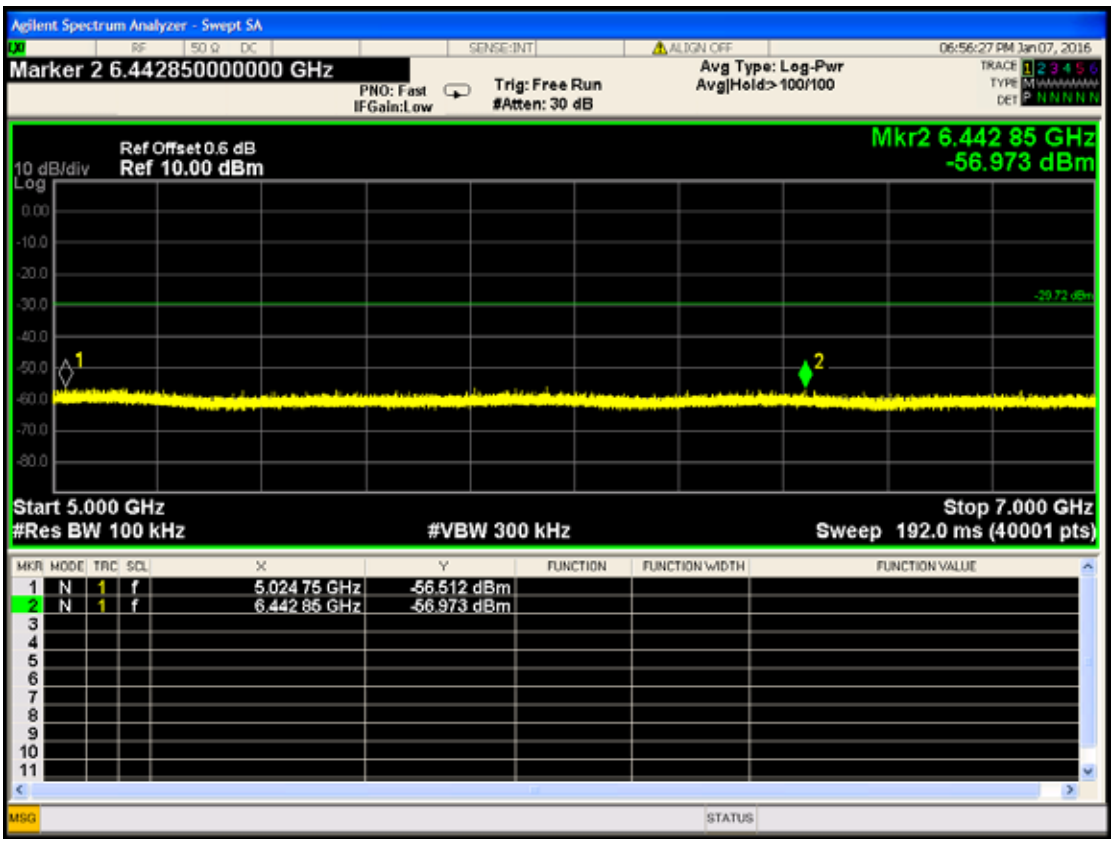

Agilent Spectrum Analyzer - Swept SA
Marker 2 24.646700000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:05:59 PM Jan 06, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 24.646 70 GHz
-54.427 dBm
-29.01 dBm
Start 23.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 23.721 75 GHz -52.905 dBm
2 N 1 f 24.646 70 GHz -54.427 dBm

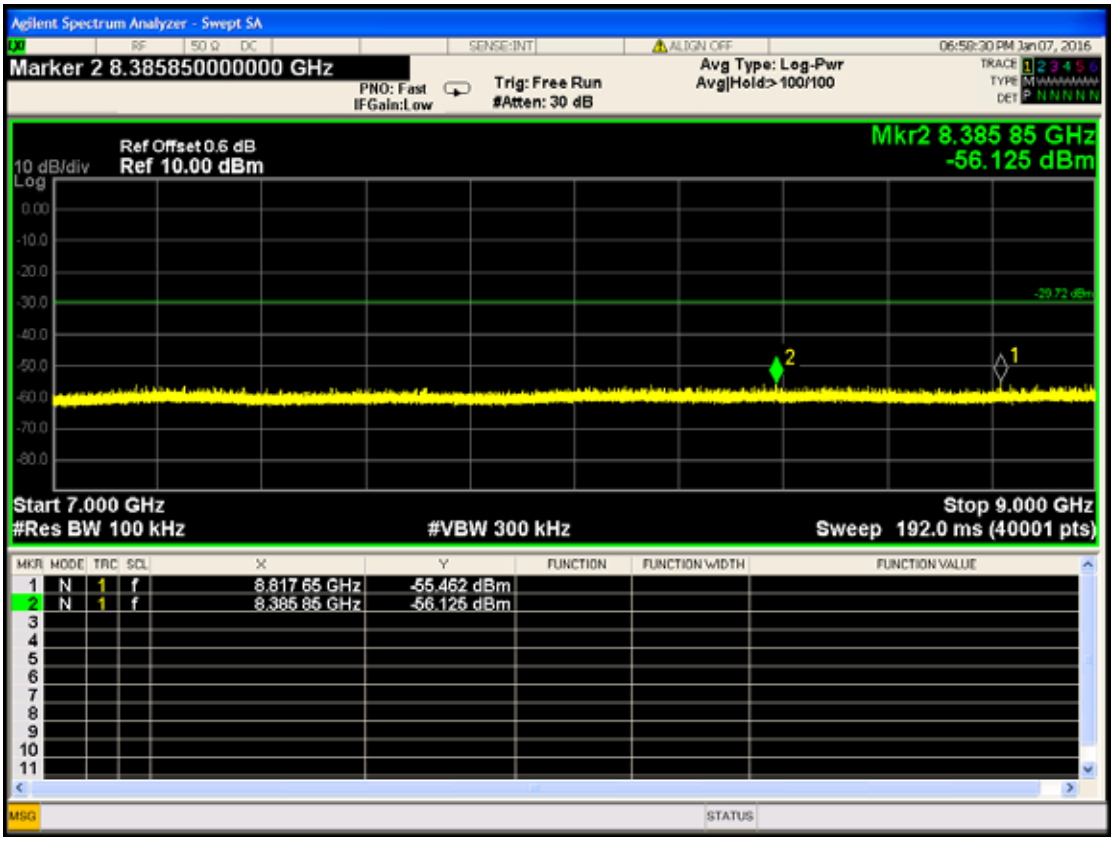
CH 20

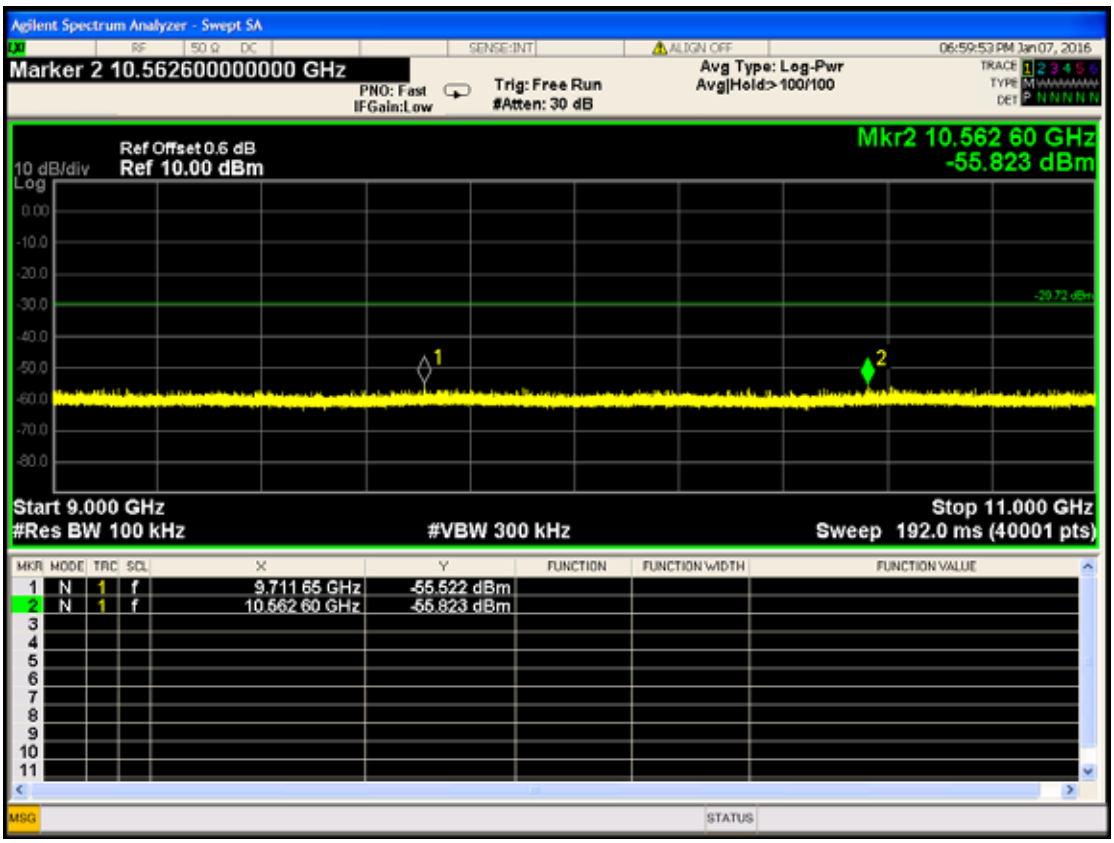

Agilent Spectrum Analyzer - Swept SA
Marker 2 599.196000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
06:49:48 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 599.20 MHz
-61.164 dBm
-29.72 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (20001 pts)
1 N 1 f 826.81 MHz -60.630 dBm
2 N 1 f 599.20 MHz -61.164 dBm

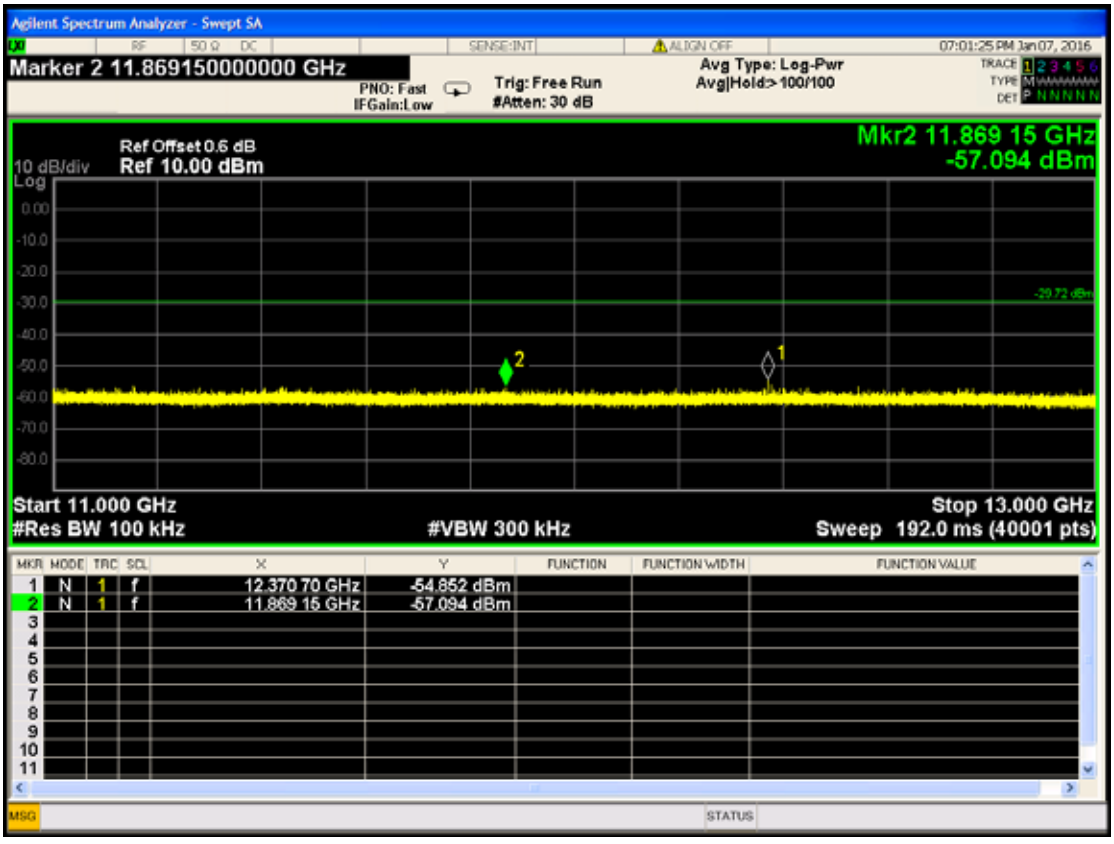

Agilent Spectrum Analyzer - Swept SA
Display Line -29.72 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
06:46:17 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 10.00 dBm
Mkr1 2.449 90 GHz
0.278 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 3.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 2.449 90 GHz 0.278 dBm

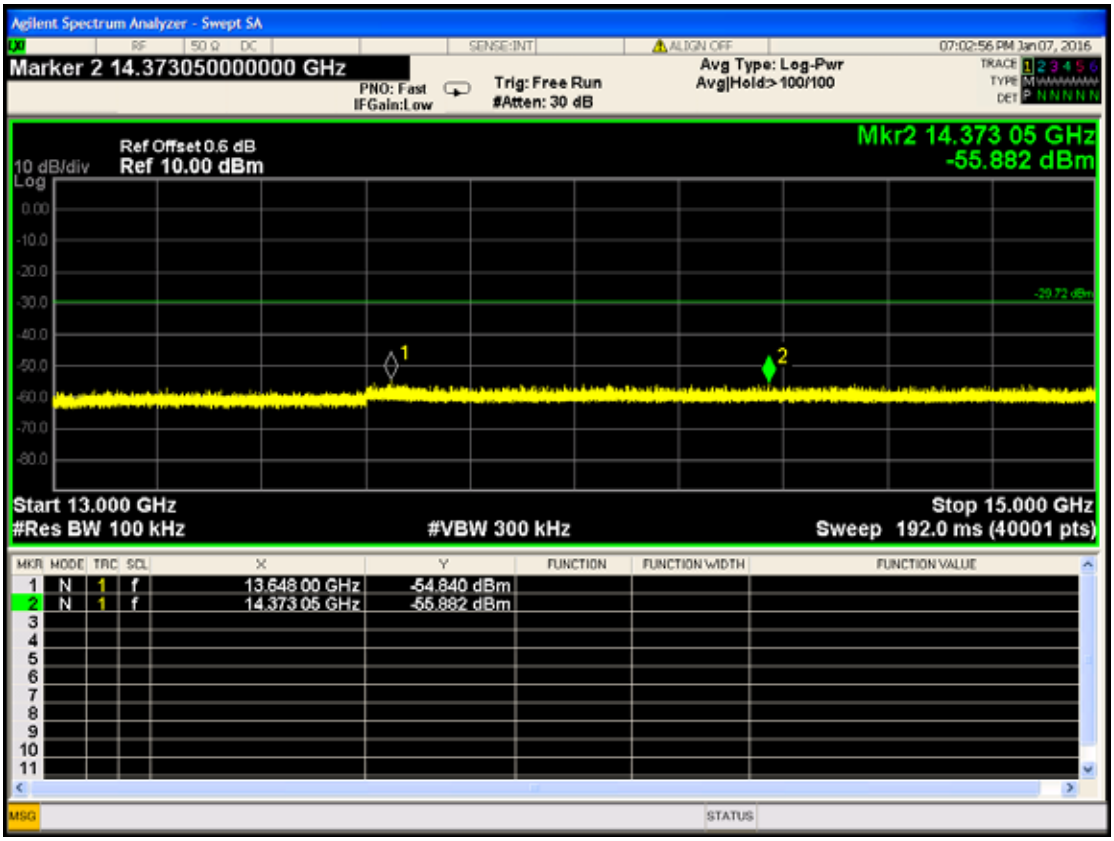

Agilent Spectrum Analyzer - Swept SA
Marker 2 4.210600006053 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
06:54:49 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 10.00 dBm
Mkr2 4.210 60 GHz
-56.567 dBm
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 3.845 30 GHz -55.123 dBm
2 N 1 f 4.210 60 GHz -56.567 dBm

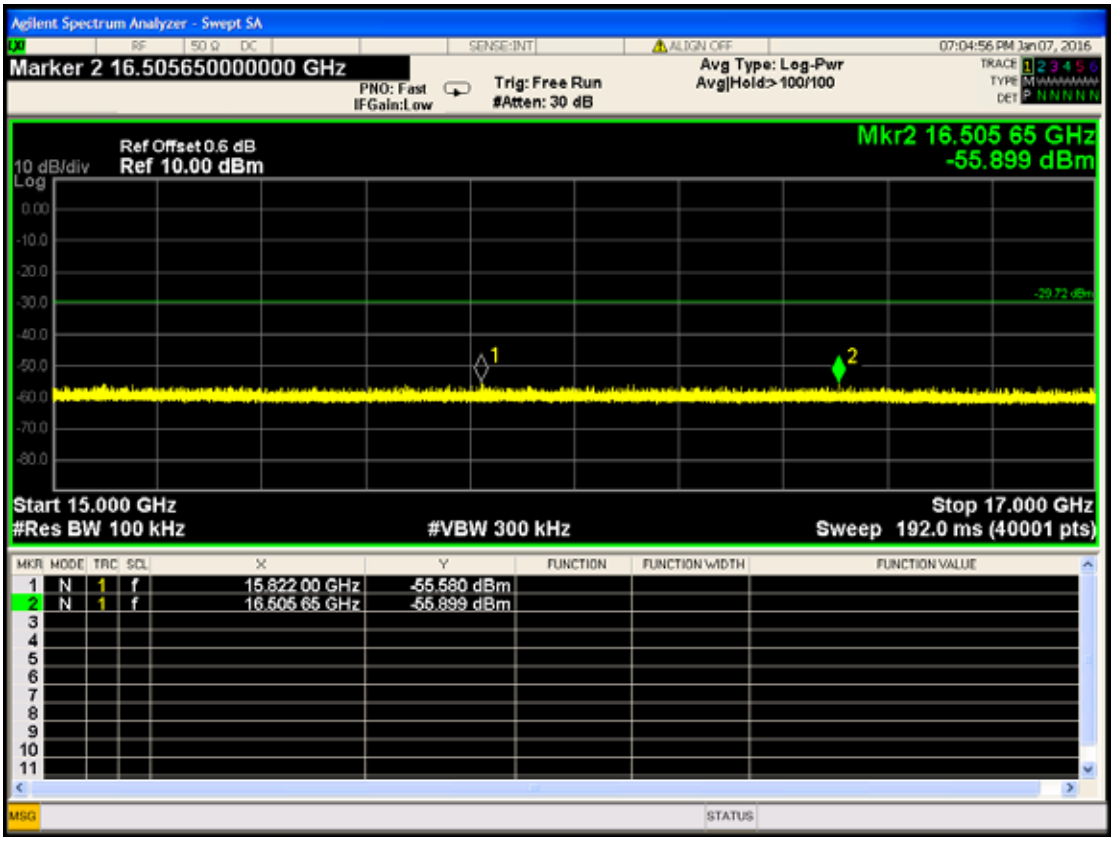

Agilent Spectrum Analyzer - Swept SA
Marker 2 6.442850000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
06:56:27 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 6.442 85 GHz
-56.973 dBm
-29.72 dBm
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 7.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 5.024 75 GHz -56.512 dBm
2 N 1 f 6.442 85 GHz -56.973 dBm

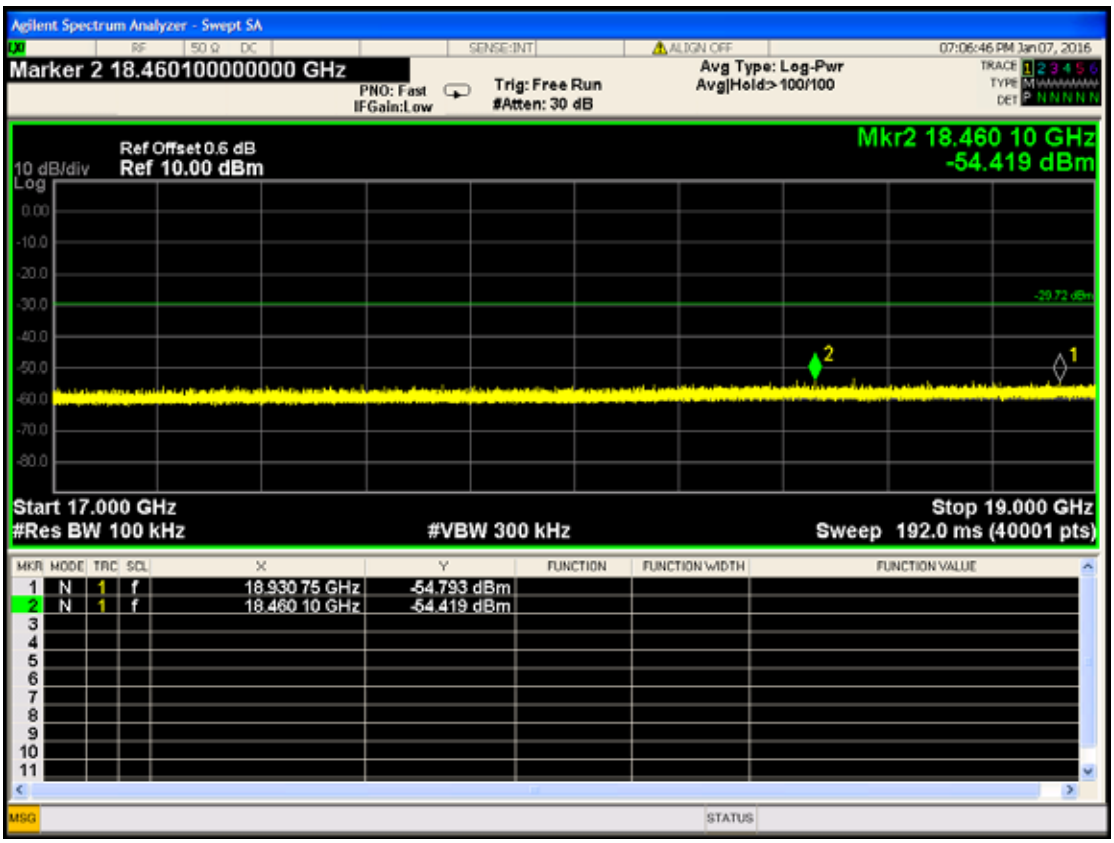

Agilent Spectrum Analyzer - Swept SA
Marker 2 8.385850000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
06:58:30 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 8.385 85 GHz
-56.125 dBm
-29.72 dBm
Start 7.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 9.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 8.817 65 GHz -55.462 dBm
2 N 1 f 8.385 85 GHz -56.125 dBm

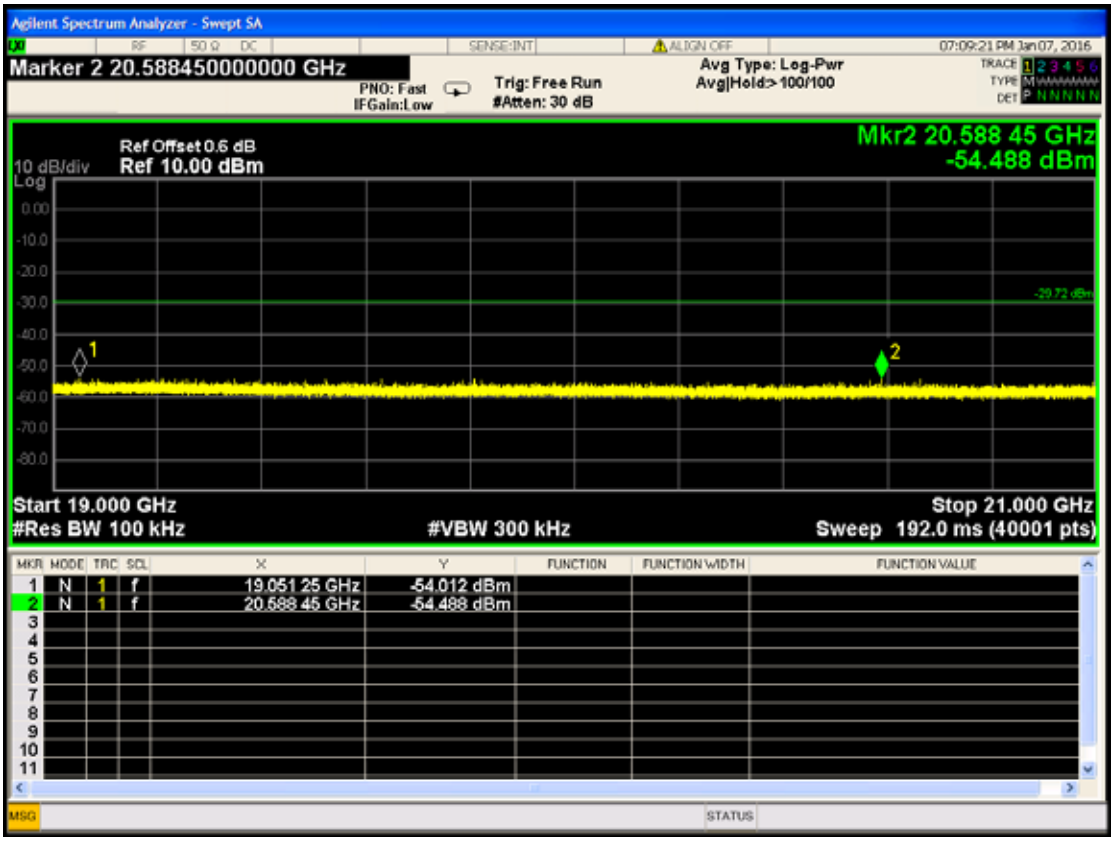

Agilent Spectrum Analyzer - Swept SA
Marker 2 10.562600000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
06:59:53 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 10.562 60 GHz
-55.823 dBm
-29.72 dBm
Start 9.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 11.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 9.711 65 GHz -55.522 dBm
2 N 1 f 10.562 60 GHz -55.823 dBm

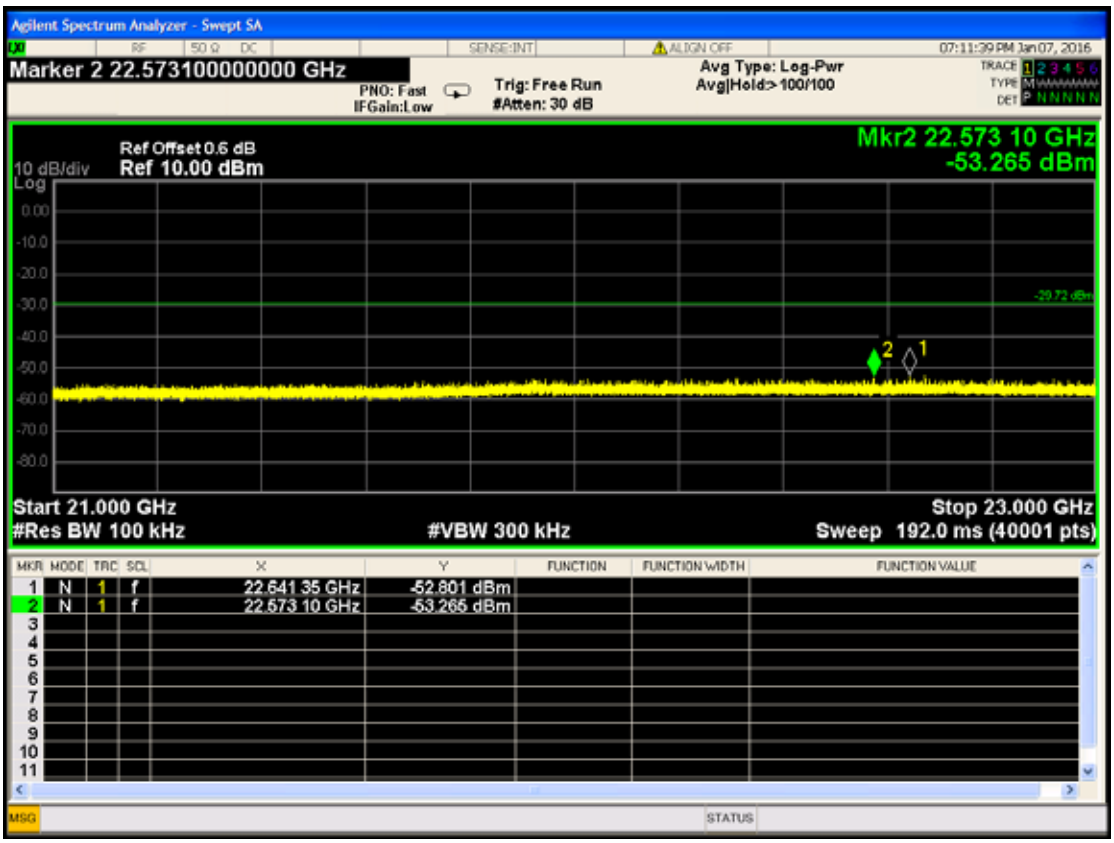

Agilent Spectrum Analyzer - Swept SA
Marker 2 11.869150000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:01:25 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 11.869 15 GHz
-57.094 dBm
-29.72 dBm
Start 11.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 13.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 12.370 70 GHz -54.852 dBm
2 N 1 f 11.869 15 GHz -57.094 dBm

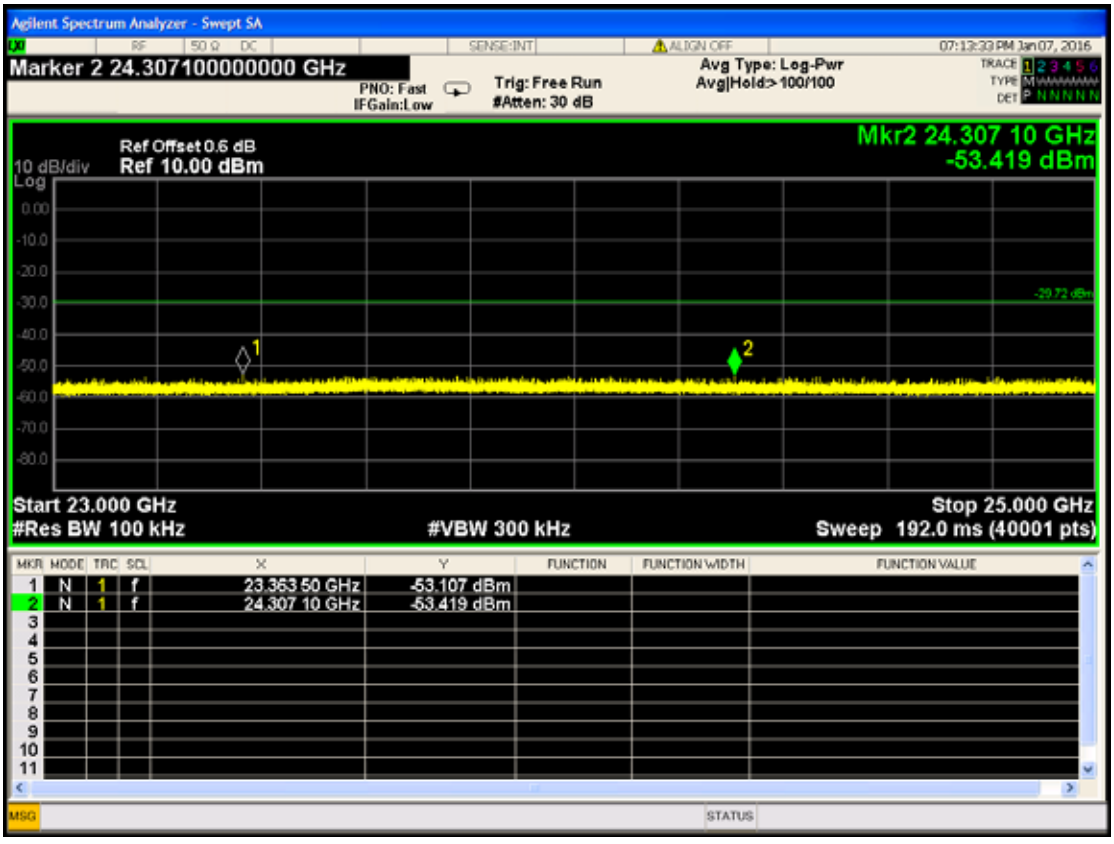

Agilent Spectrum Analyzer - Swept SA
Marker 2 14.373050000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:02:56 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 14.373 05 GHz
-55.882 dBm
-29.72 dBm
Start 13.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 13.648 00 GHz -54.840 dBm
2 N 1 f 14.373 05 GHz -55.882 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 16.505650000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:04:56 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 16.505 65 GHz
-55.899 dBm
-29.72 dBm
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 17.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 15.822 00 GHz -55.580 dBm
2 N 1 f 16.505 65 GHz -55.899 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 18.460100000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:06:46 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 18.460 10 GHz
-54.419 dBm
-29.72 dBm
Start 17.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 19.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 18.930 75 GHz -54.793 dBm
2 N 1 f 18.460 10 GHz -54.419 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 20.588450000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:09:21 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 20.588 45 GHz
-54.488 dBm
-29.72 dBm
Start 19.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 21.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 19.051 25 GHz -54.012 dBm
2 N 1 f 20.588 45 GHz -54.488 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 22.573100000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:11:39 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 22.573 10 GHz
-53.265 dBm
-29.72 dBm
Start 21.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 23.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 22.641 35 GHz -52.801 dBm
2 N 1 f 22.573 10 GHz -53.265 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 24.307100000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:12:33 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 24.307 10 GHz
-53.419 dBm
-29.72 dBm
Start 23.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 23.363 50 GHz -53.107 dBm
2 N 1 f 24.307 10 GHz -53.419 dBm

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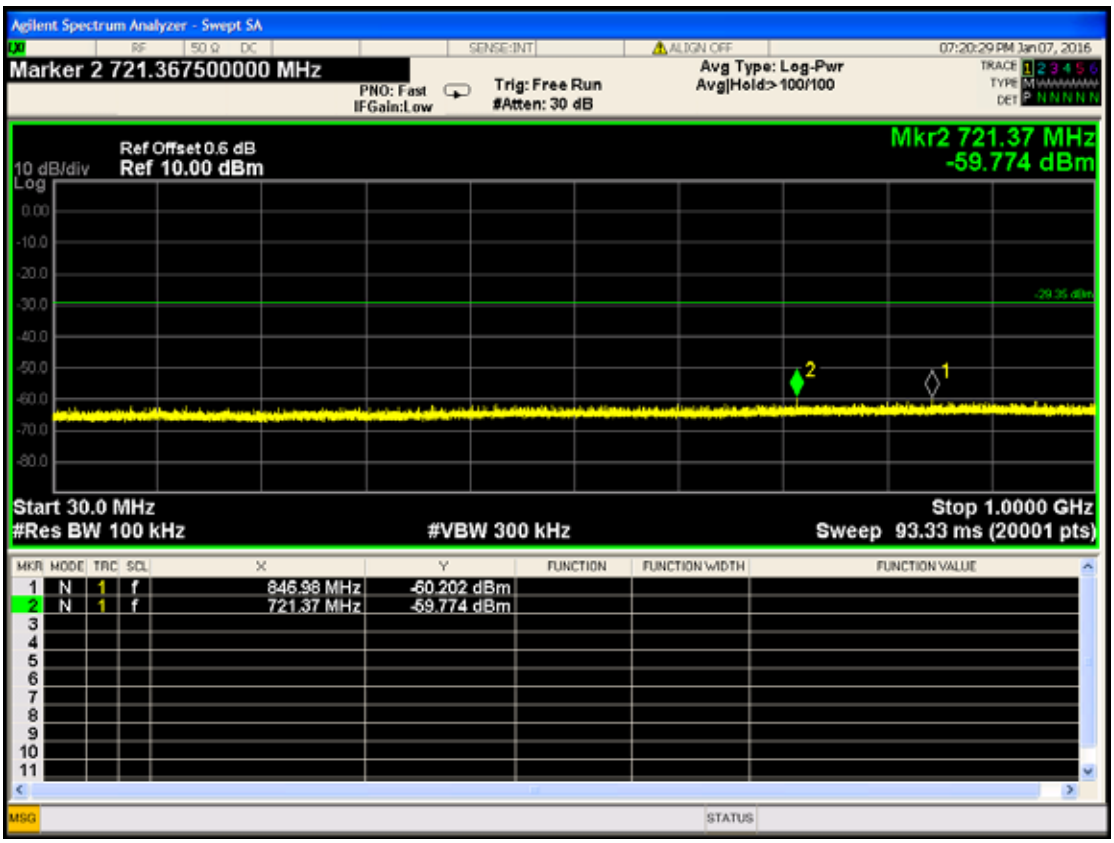
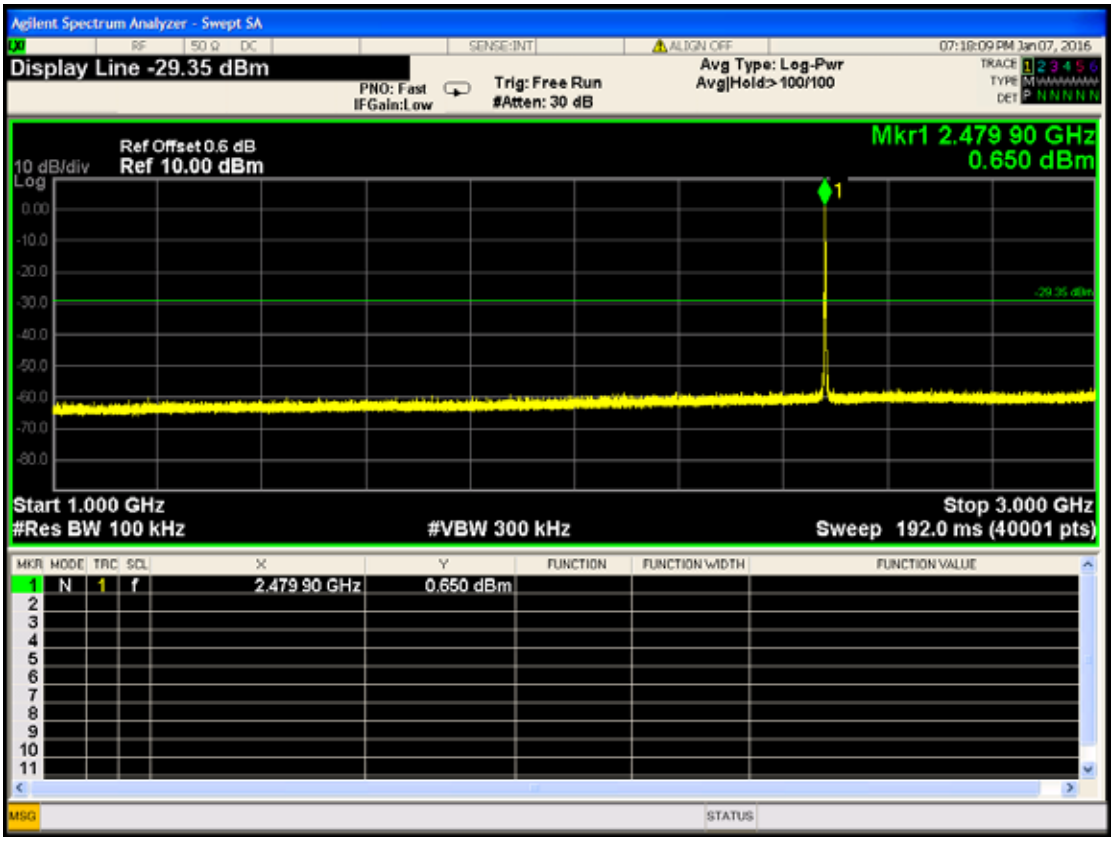
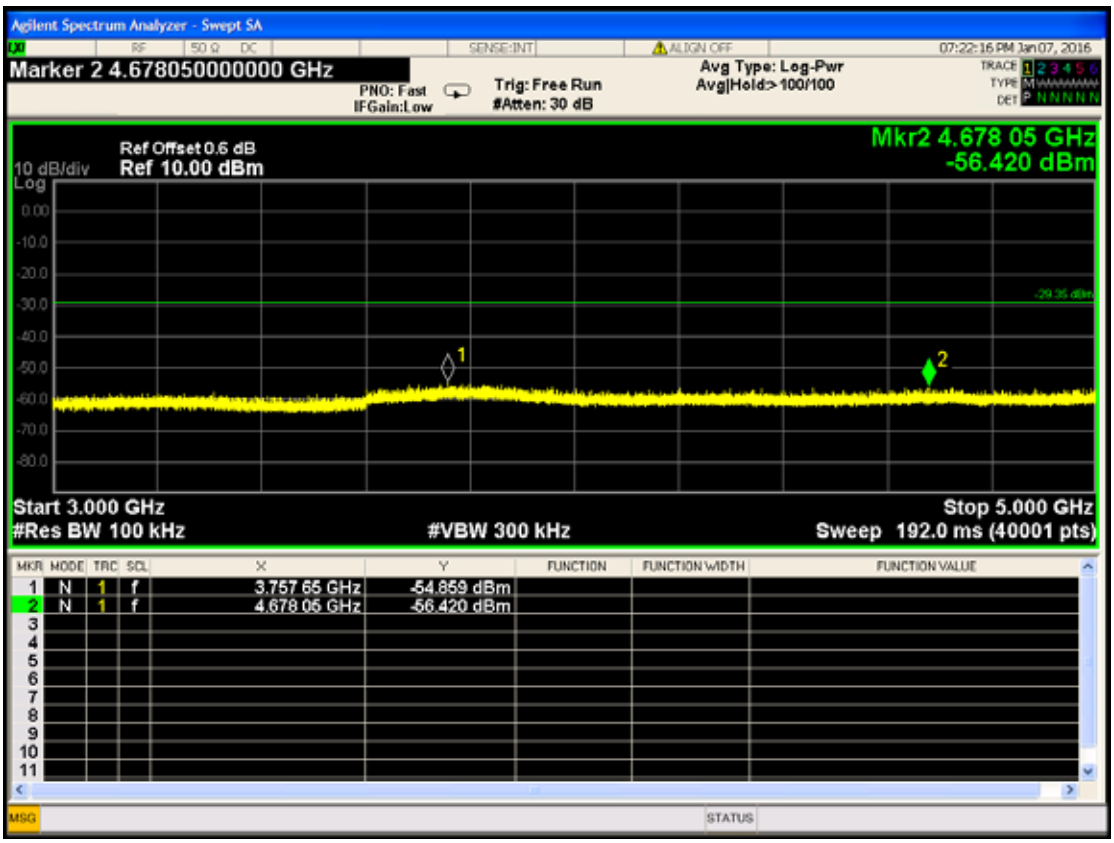
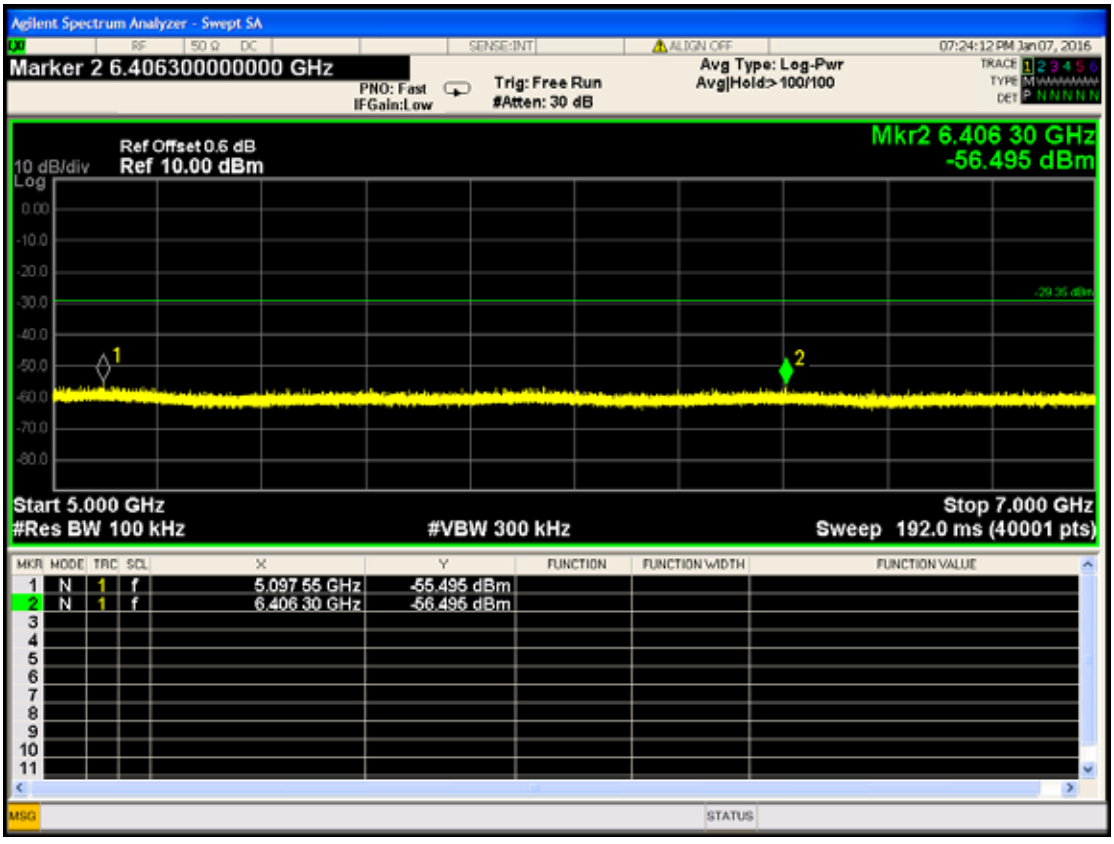
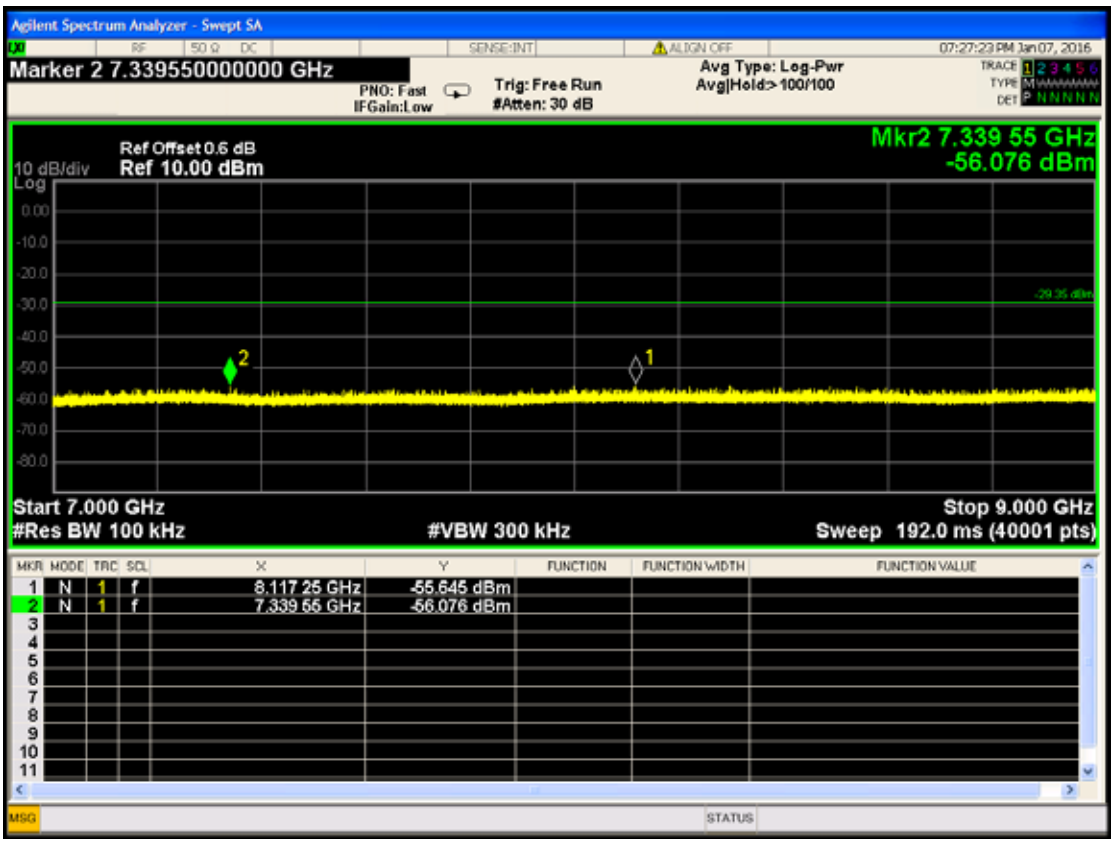
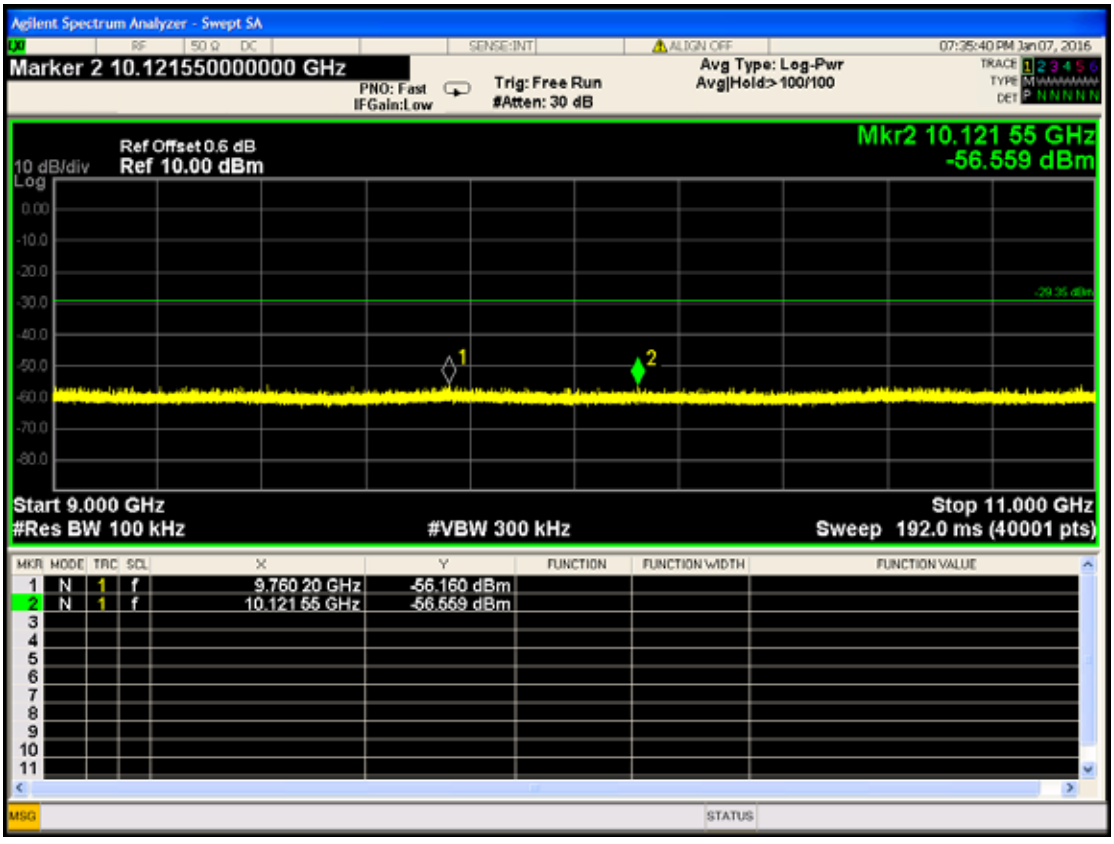

Agilent Spectrum Analyzer - Swept SA
Marker 2 721.367500000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:20:29 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 721.37 MHz
-59.774 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (20001 pts)
1 N 1 f 846.98 MHz -60.202 dBm
2 N 1 f 721.37 MHz -59.774 dBm

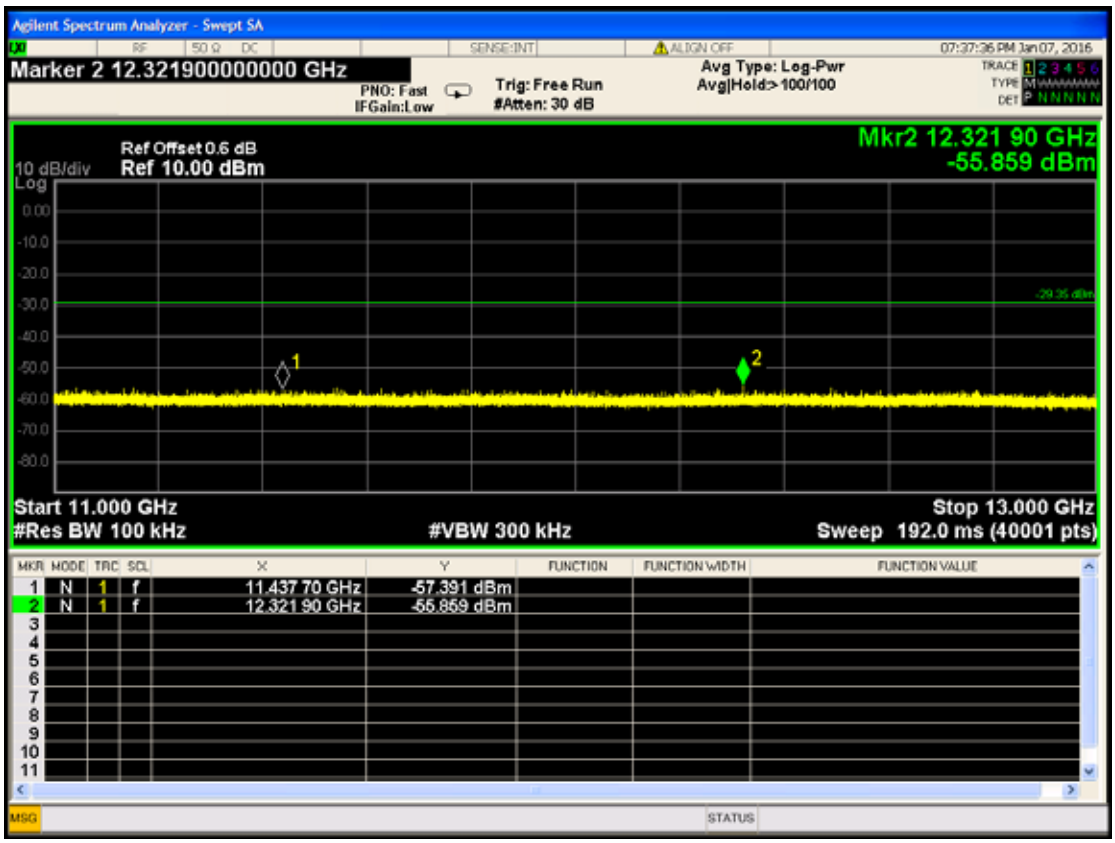

Agilent Spectrum Analyzer - Swept SA
Display Line -29.35 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:18:09 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 2.479 90 GHz
0.650 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 3.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 2.479 90 GHz 0.650 dBm

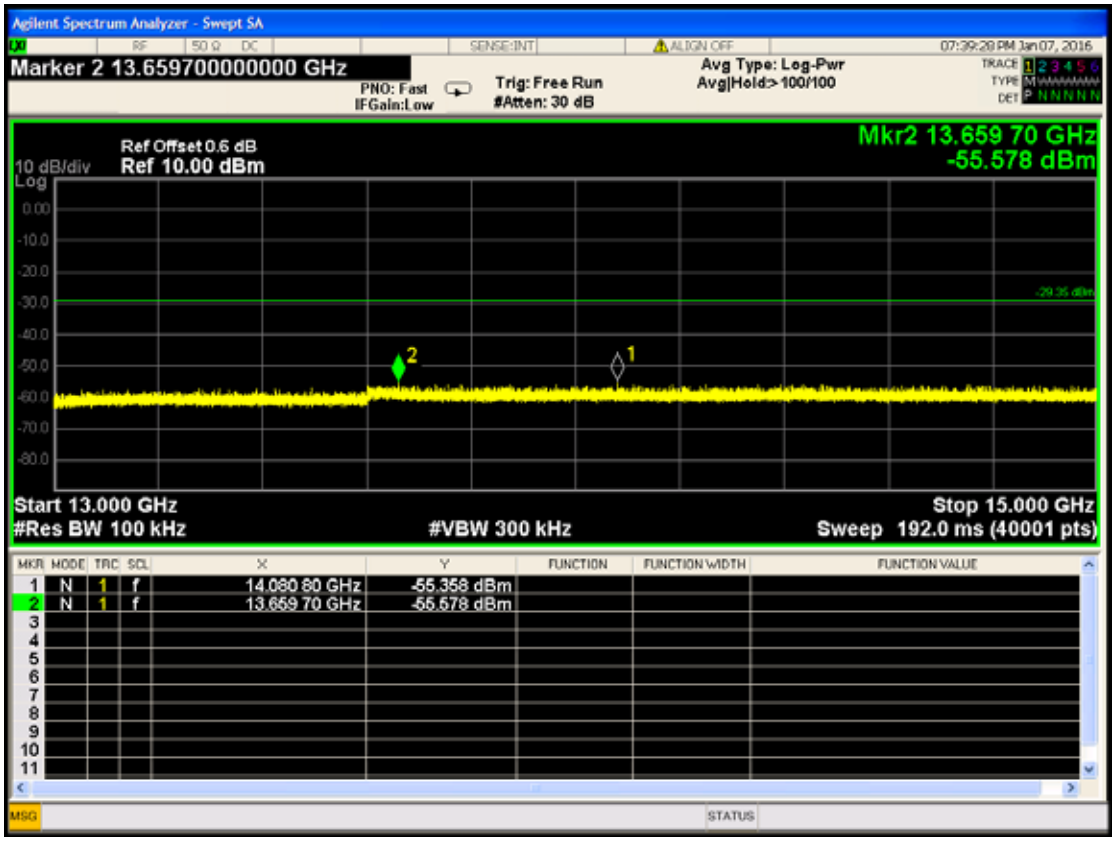

Agilent Spectrum Analyzer - Swept SA
Marker 2 4.678050000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:22:16 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 4.678 05 GHz
-56.420 dBm
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 3.757 65 GHz -54.859 dBm
2 N 1 f 4.678 05 GHz -56.420 dBm

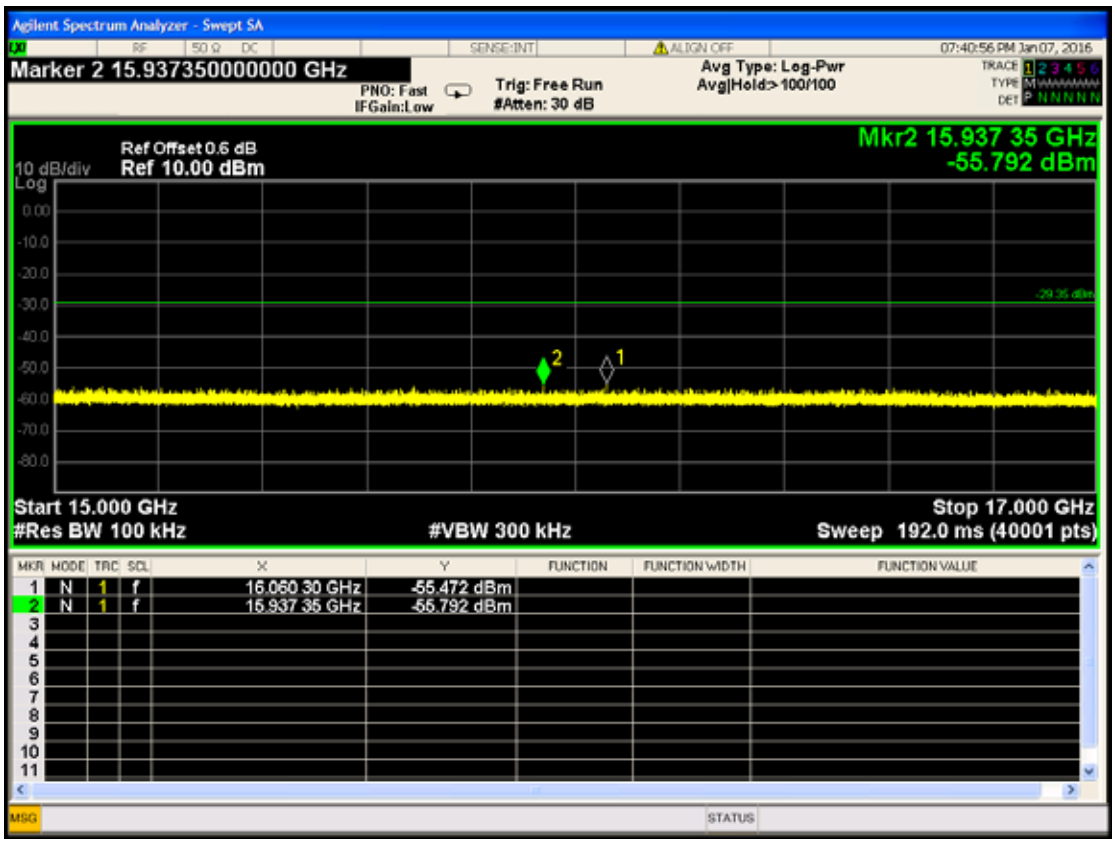

Agilent Spectrum Analyzer - Swept SA
Marker 2 6.406300000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:24:12 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 6.406 30 GHz
-56.495 dBm
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 7.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 5.097 55 GHz -55.495 dBm
2 N 1 f 6.406 30 GHz -56.495 dBm

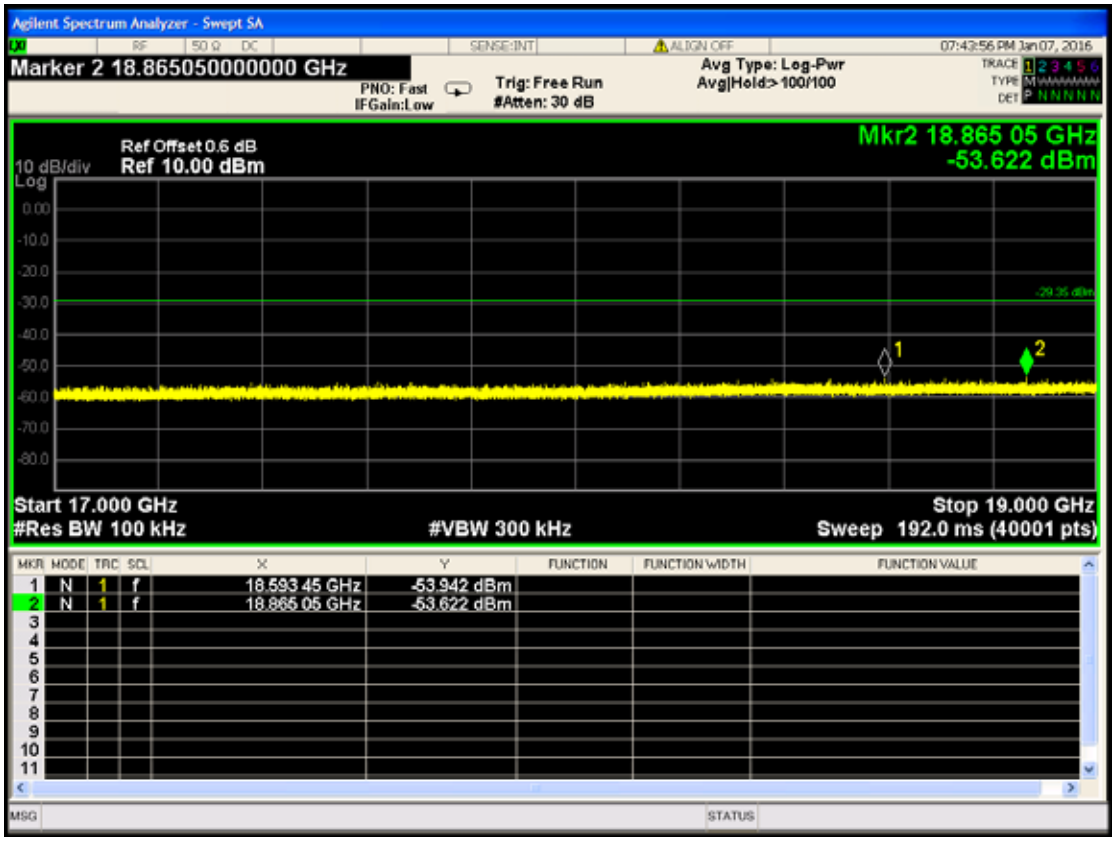

Agilent Spectrum Analyzer - Swept SA
Marker 2 7.339550000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:27:23 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 7.339 55 GHz
-56.076 dBm
Start 7.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 9.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 8.117 25 GHz -55.645 dBm
2 N 1 f 7.339 55 GHz -56.076 dBm

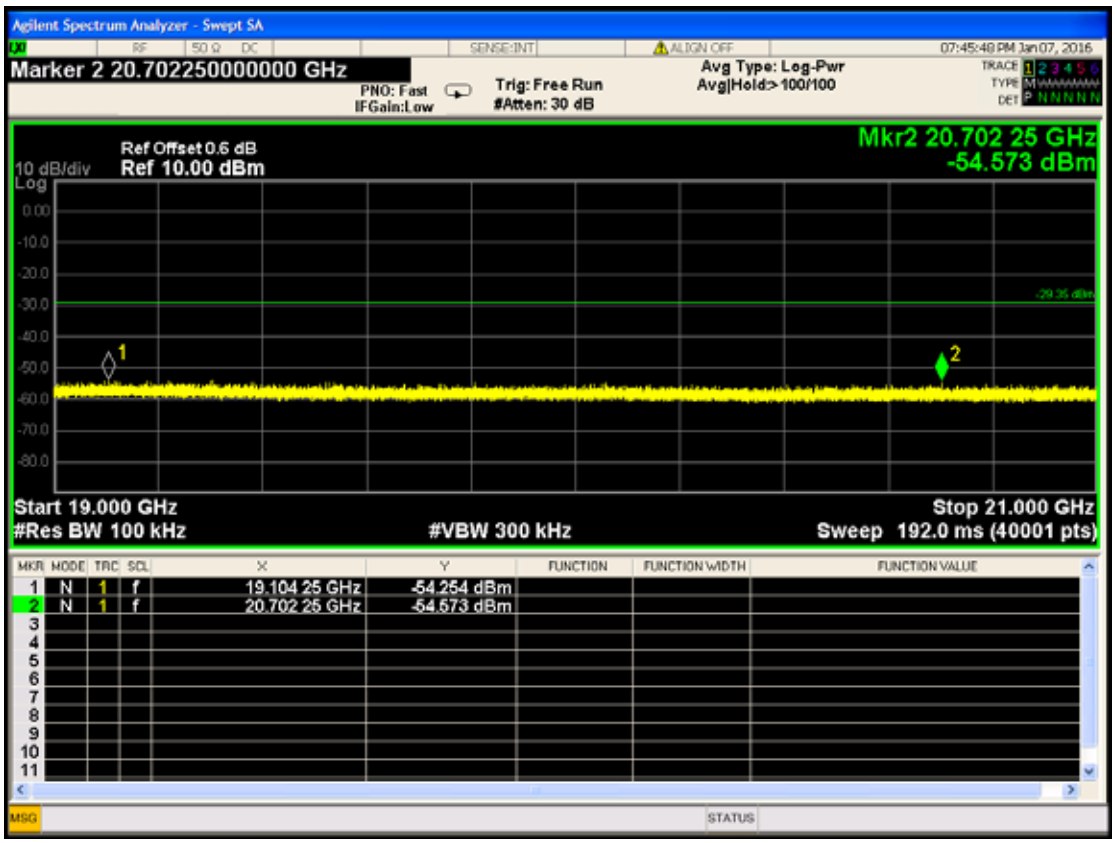

Agilent Spectrum Analyzer - Swept SA
Marker 2 10.121550000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:35:40 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 10.121 55 GHz
-56.559 dBm
Start 9.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 11.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 9.760 20 GHz -56.160 dBm
2 N 1 f 10.121 55 GHz -56.559 dBm

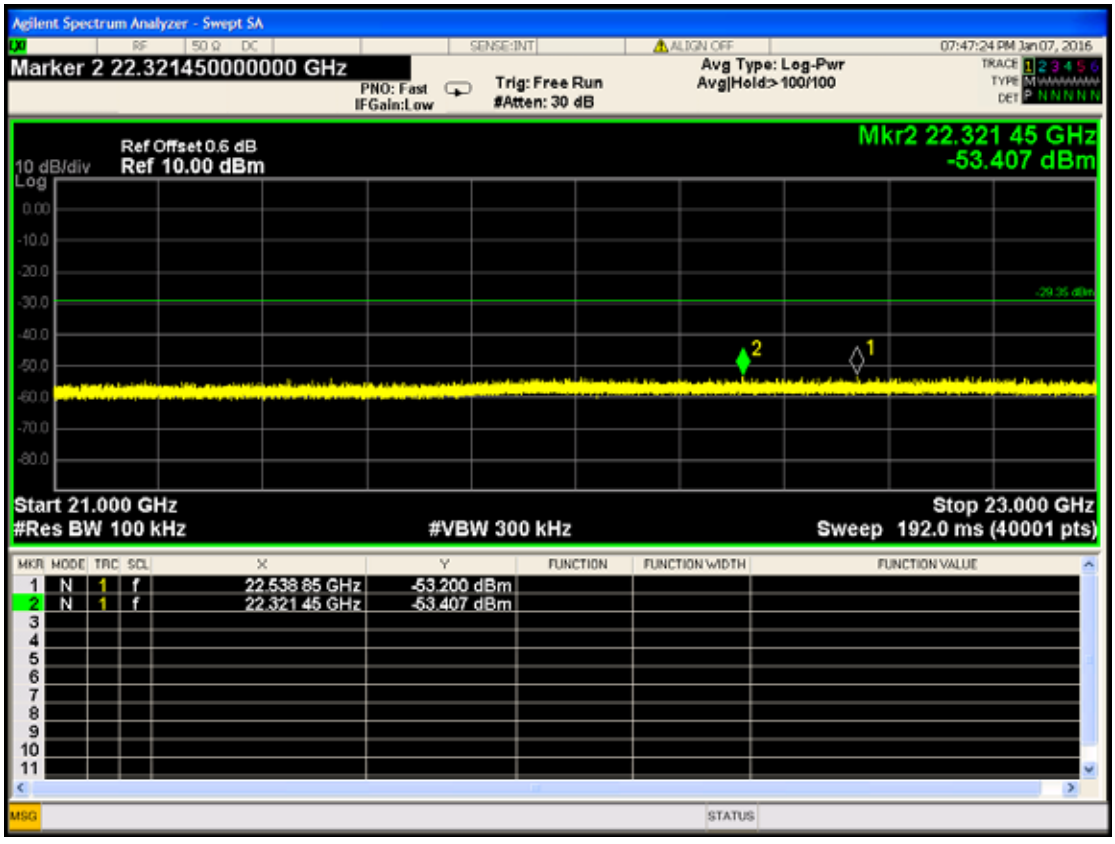

Agilent Spectrum Analyzer - Swept SA
Marker 2 12.321900000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:37:36 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 12.321 90 GHz
-55.859 dBm
Start 11.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 13.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 11.437 70 GHz -57.391 dBm
2 N 1 f 12.321 90 GHz -55.859 dBm

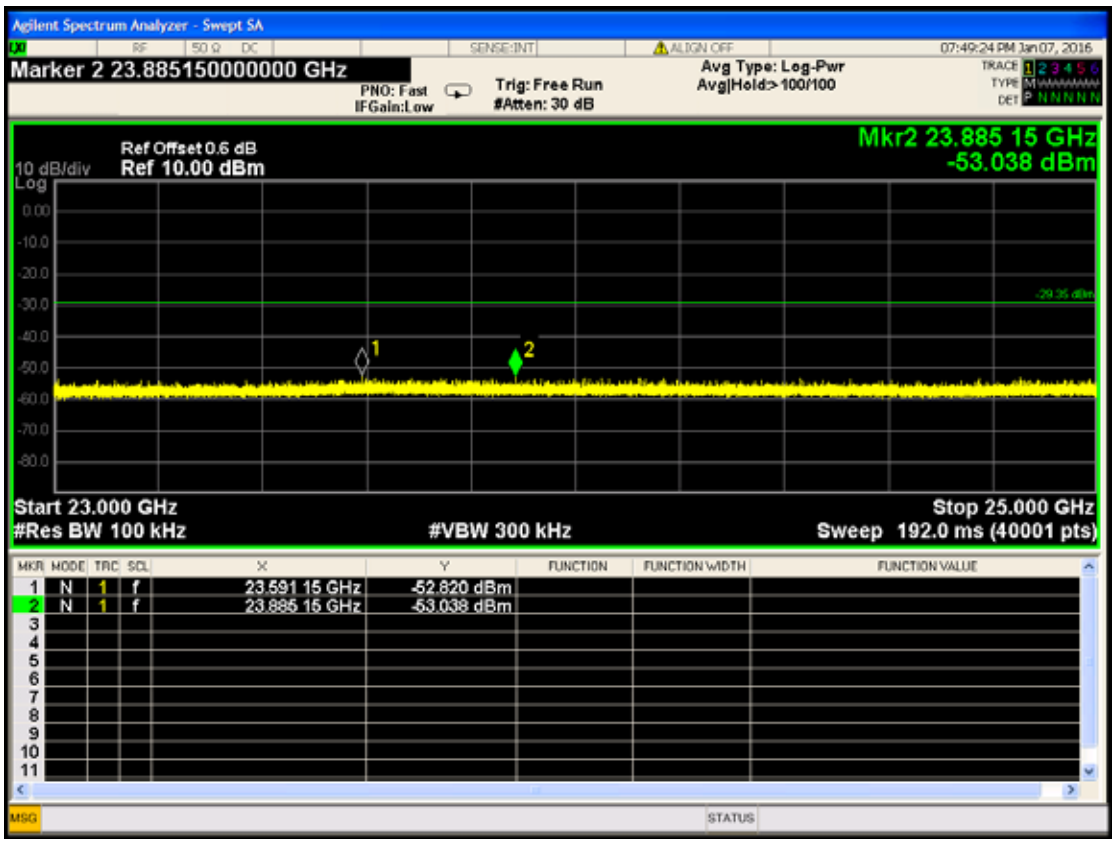

Agilent Spectrum Analyzer - Swept SA
Marker 2 13.659700000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:39:28 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 13.659 70 GHz
-55.578 dBm
Start 13.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 14.080 80 GHz -55.358 dBm
2 N 1 f 13.659 70 GHz -55.578 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 15.937350000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:40:56 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 15.937 35 GHz
-55.792 dBm
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 17.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 16.060 30 GHz -55.472 dBm
2 N 1 f 15.937 35 GHz -55.792 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 18.865050000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:43:56 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 18.865 05 GHz
-53.622 dBm
Start 17.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 19.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 18.593 45 GHz -53.942 dBm
2 N 1 f 18.865 05 GHz -53.622 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 20.702250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:45:48 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 20.702 25 GHz
-54.573 dBm
Start 19.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 21.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 19.104 25 GHz -54.254 dBm
2 N 1 f 20.702 25 GHz -54.573 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 22.321450000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:47:24 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 22.321 45 GHz
-53.407 dBm
Start 21.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 23.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 22.538 85 GHz -53.200 dBm
2 N 1 f 22.321 45 GHz -53.407 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 23.885150000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:49:24 PM Jan 07, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr2 23.885 15 GHz
-53.038 dBm
Start 23.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 23.591 15 GHz -52.820 dBm
2 N 1 f 23.885 15 GHz -53.038 dBm

10. DUTY CYCLE

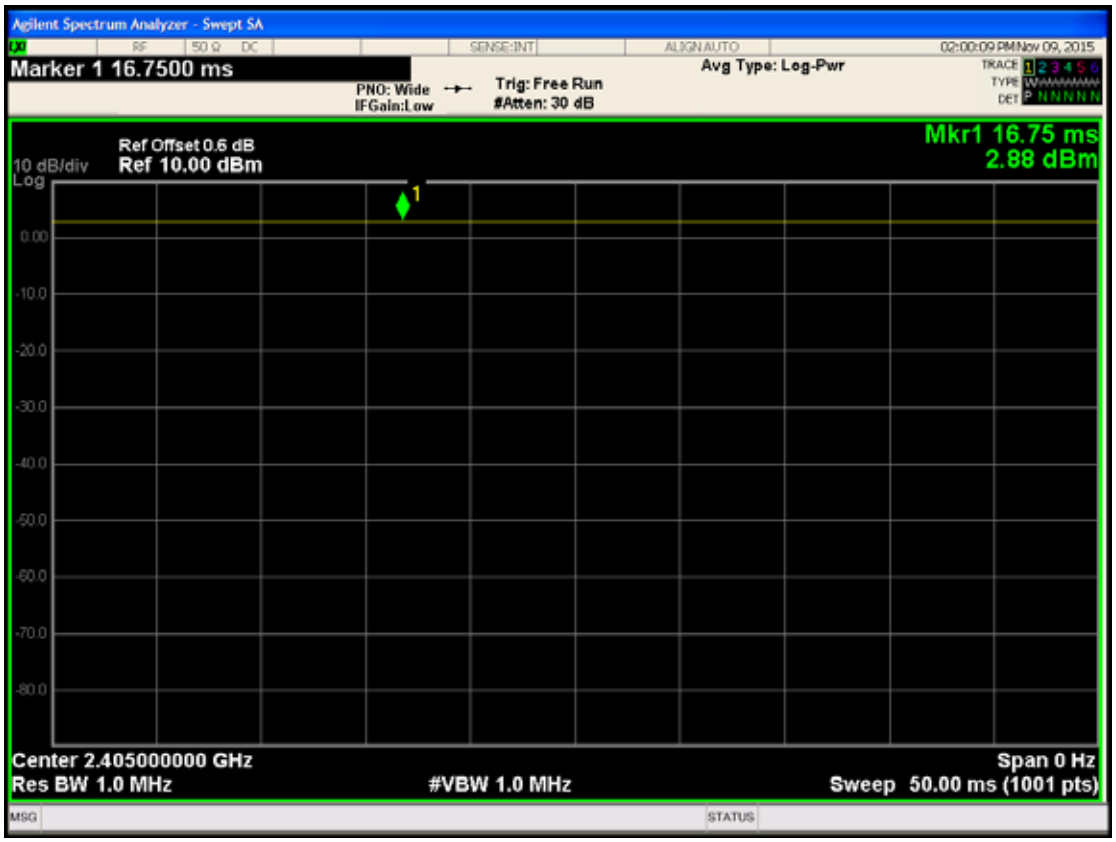
10.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

10.2. Test Results

The measurement of duty cycle is 100%.

CH 11



11. DEVIATION TO TEST SPECIFICATIONS

NONE