

# Test Report

## FCC Part15 Subpart C

Product Name : GPON Terminal  
Model No. : EchoLife HG8045A  
FCC ID : QISHG8045A

Applicant : Huawei Technologies Co., Ltd.  
Address : Administration Building, Headquarters of Huawei  
Technologies Co., Ltd., Bantian, Longgang District,  
Shenzhen,518129, P.R.C

Date of Receipt : Dec. 30, 2013  
Test Date : Dec. 30, 2013~Jan. 12, 2014  
Issued Date : Jan. 13, 2014  
Report No. : 1410061R-RF-US-P05V01  
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

# Test Report Certification

Issued Date : Jan. 13, 2014  
Report No. : 1410061R-RF-US-P05V01



Product Name : GPON Terminal  
Applicant : Huawei Technologies Co., Ltd.  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C  
Manufacturer : Huawei Technologies Co., Ltd.  
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C  
Model No. : EchoLife HG8045A  
FCC ID : QISHG8045A  
EUT Voltage : 100V~240V AC  
Brand Name : HUAWEI  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2012  
ANSI C63.4: 2009; KDB 558074  
Test Result : Complied  
Performed Location : Suzhou EMC Laboratory  
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TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098  
FCC Registration Number: 800392

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**Laboratory Information**

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

<b>Taiwan R.O.C.</b>	<b>:</b>	<b>BSMI, NCC, TAF</b>
<b>Germany</b>	<b>:</b>	<b>TUV Rheinland</b>
<b>Norway</b>	<b>:</b>	<b>Nemko, DNV</b>
<b>USA</b>	<b>:</b>	<b>FCC</b>
<b>Japan</b>	<b>:</b>	<b>VCCI</b>
<b>China</b>	<b>:</b>	<b>CNAS</b>

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site :<http://www.quietek.com/tw/ctg/cts/accreditations.htm>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :  
<http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

1.1. EUT Description

Product Name	GPON Terminal
Brand Name	HUAWEI
Model No.	EchoLife HG8045A
EUT Voltage	100V~240V AC
Frequency Range	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 300 Mbps
Channel Control	Auto
Antenna Delivery	2*Tx + 2*Rx
Antenna Type	Dipole Antenna
Peak Antenna Gain	Both for 5dBi
<b>Component</b>	
Adapter#1	MFR: Huntkey Model: HW-120100U1W Input: 100-240V~ 50/60Hz 0.5A Output: 12.0V, 1.0A
Adapter#2	MFR: Dongguan Shilong Fuhua Electronic Co., Ltd Model: HW-120200U1W Input: 100-240V~ 50/60Hz, 0.8A Output: 12.0V, 2.0A
Adapter#3	MFR: HUAWEI Model: HW-120100U1W Input: 100-240V~ 50/60Hz, 0.5A Output: 12.0V, 1.0A
Adapter#4	MFR: Huntkey Model: HW-120200U1W Input: 100-240V~ 50/60Hz 0.8A Output: 12.0V, 2.0A

Note: In this case, we just use adapter #1 for all RF testing.

**For 2.4GHz Band**

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A
802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

**Duty Cycle**

Test Mode	Duty Cycle
802.11b	99%
802.11g	99%
802.11n(20MHz)	99%
802.11n(40MHz)	98%

Power Parameter Value of the test software

Test Mode	Test Channel	Ant 0	Ant 1	Ant 0+1	
				Ant 0	Ant 1
802.11b	2412	15	19	N/A	N/A
	2437	16	30	N/A	N/A
	2462	22	28	N/A	N/A
802.11g	2412	9	6	N/A	N/A
	2437	26	16	N/A	N/A
	2462	8	11	N/A	N/A
802.11n(20MHz)	2412	6	6	5	7
	2437	16	14	10	10
	2462	8	10	9	11
802.11n(40MHz)	2422	5	6	1	2
	2437	10	12	12	12
	2452	5	10	2	3

**1.2. Mode of Operation**

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)
Mode 4: Transmit by 802.11n(40MHz)
Mode 5: Receive by 802.11b
Mode 6: Receive by 802.11g
Mode 7: Receive by 802.11n(20MHz)
Mode 8: Receive by 802.11n(40MHz)

Note:

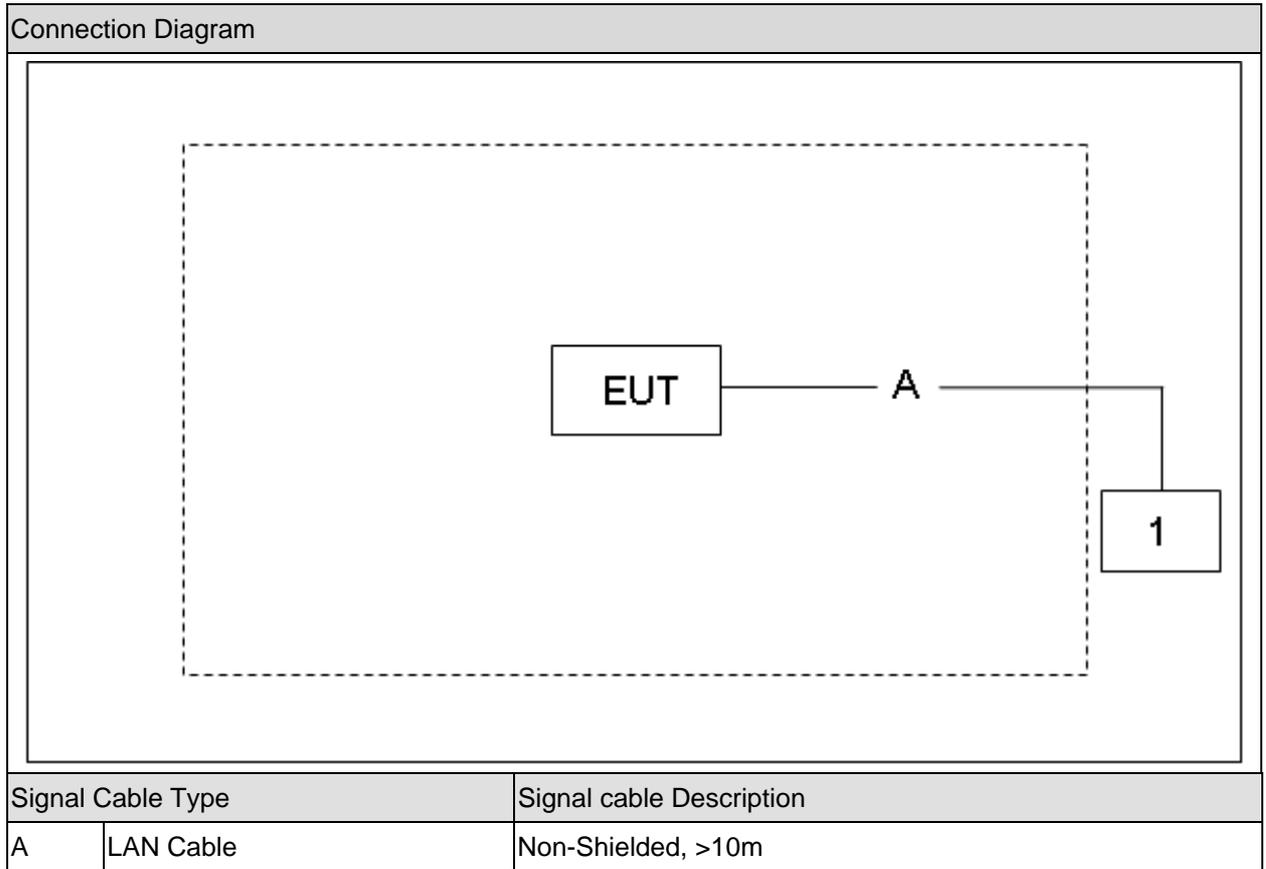
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 1410061R-RF-US-P01V02.

**1.3. Tested System Details**

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	PC	DELL	OPTIPLEX 390	N/A	Non-Shielded, 1.8m

1.4. Configuration of Tested System



**1.5. EUT Exercise Software**

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	Execute some commands on the PC provided by applicant.
4	Setup the test channel and the test mode press ok to start the continue transmit or receive.

**2. Technical Test**

**2.1. Summary of Test Result**

- No deviations from the test standards
- Deviations from the test standards as below description:

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2012 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2012 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2012 Section 15.247(e)	Yes	No

**2.2. Test Environment**

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

### 3. Conducted Emission

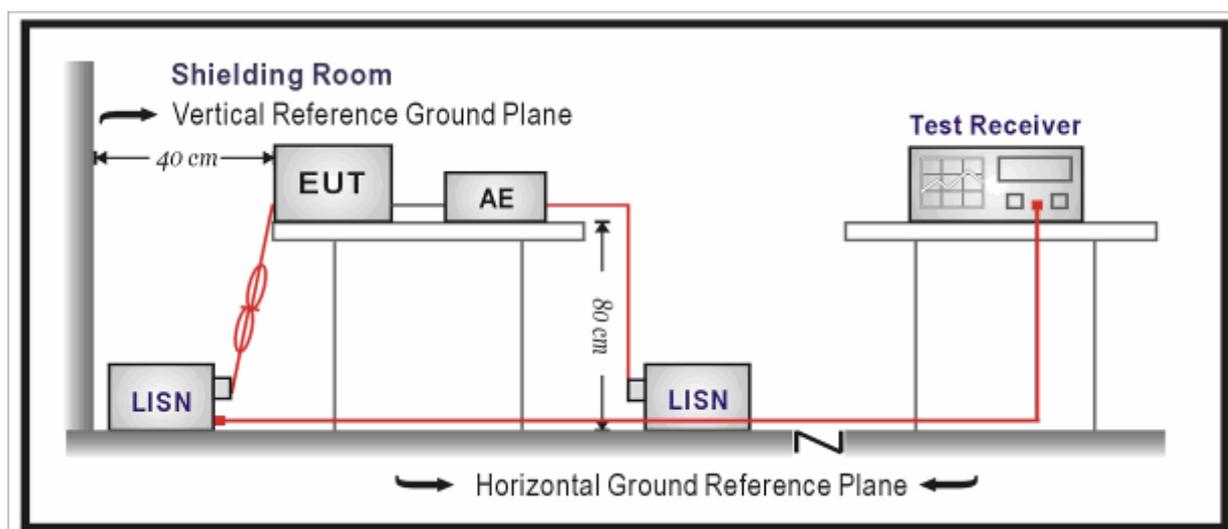
#### 3.1. Test Equipment

Conducted Emission / TR-1

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100726	2014.03.30
Two-Line V-Network	R&S	ENV216	100043	2014.03.30
Two-Line V-Network	R&S	ENV216	100044	2014.09.16
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2014.03.01
50ohm Termination	SHX	TF2	07081401	2014.09.16
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2015.01.08

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

#### 3.2. Test Setup



**3.3. Limit**

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**3.4. Test Procedure**

The EUT was setup according to ANSI C63.4, 2009 and tested according to ANSI C63.10: 2009 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

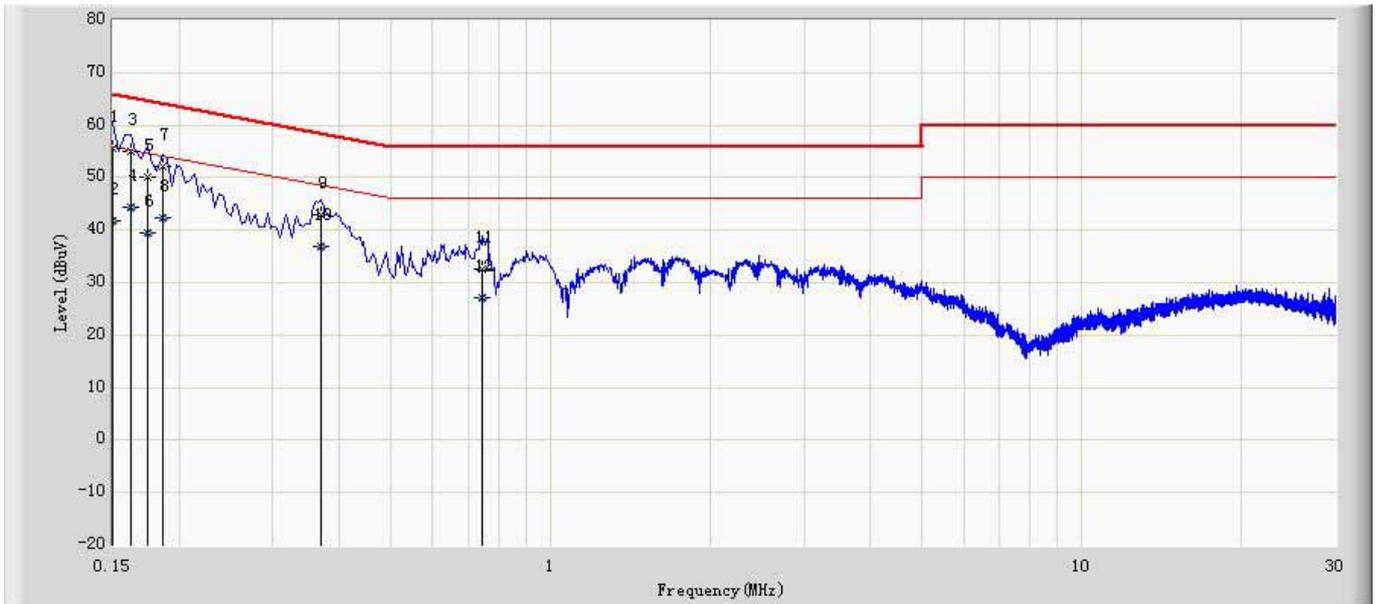
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

**3.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 2.02$  dB

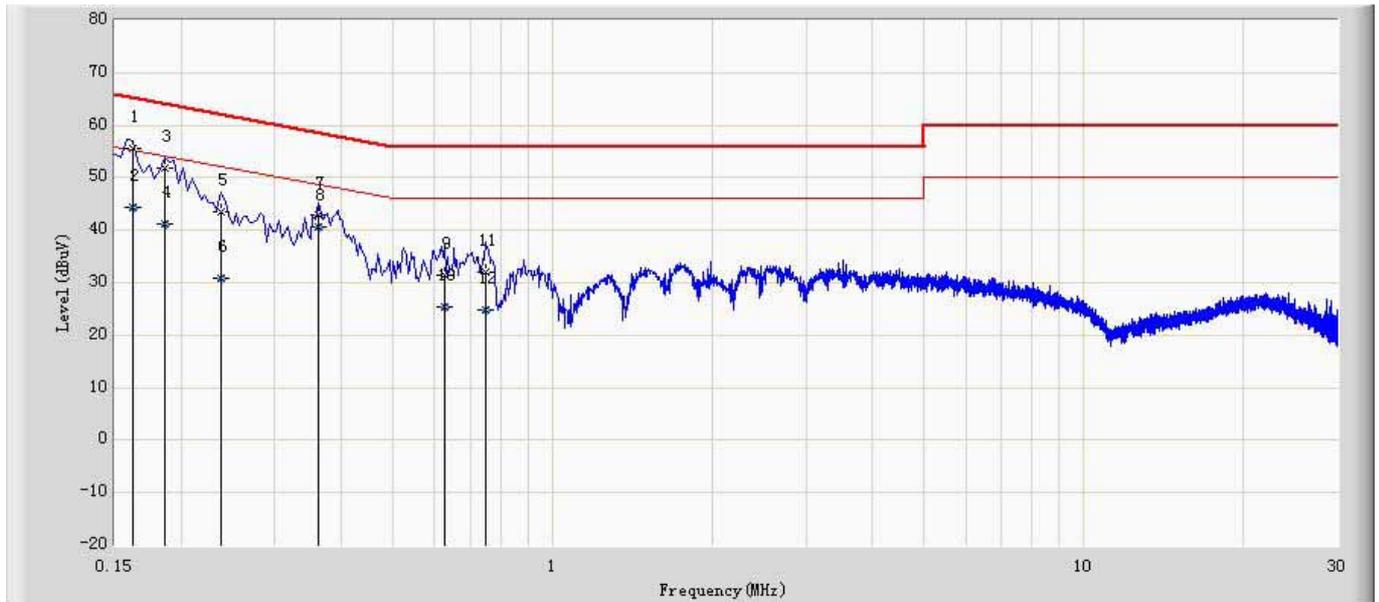
3.6. Test Result

Engineer: Toms	
Site: TR1	Time: 2014/01/11 - 09:48
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: GPON Terminal	Power: AC 120V/60Hz
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.150	55.456	45.481	-10.544	66.000	9.975	QP
2		0.150	41.767	31.792	-14.233	56.000	9.975	AV
3	*	0.162	55.114	45.129	-10.246	65.361	9.986	QP
4		0.162	44.337	34.351	-11.024	55.361	9.986	AV
5		0.174	50.220	40.259	-14.547	64.767	9.961	QP
6		0.174	39.619	29.658	-15.148	54.767	9.961	AV
7		0.186	52.089	42.155	-12.124	64.213	9.934	QP
8		0.186	42.300	32.366	-11.913	54.213	9.934	AV
9		0.370	42.918	32.933	-15.583	58.501	9.985	QP
10		0.370	36.989	27.005	-11.512	48.501	9.985	AV
11		0.746	32.559	22.656	-23.441	56.000	9.903	QP
12		0.746	27.137	17.234	-18.863	46.000	9.903	AV

Engineer: Toms	
Site: TR1	Time: 2014/01/11 - 10:01
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: GPON Terminal	Power: AC 120V/60Hz
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.162	55.459	45.613	-9.901	65.361	9.847	QP
2		0.162	44.454	34.607	-10.907	55.361	9.847	AV
3		0.186	51.699	41.842	-12.514	64.213	9.857	QP
4		0.186	41.100	31.243	-13.113	54.213	9.857	AV
5		0.238	43.402	33.536	-18.764	62.166	9.866	QP
6		0.238	30.976	21.111	-21.189	52.166	9.866	AV
7		0.362	43.041	33.158	-15.642	58.682	9.882	QP
8	*	0.362	40.501	30.619	-8.181	48.682	9.882	AV
9		0.626	31.426	21.561	-24.574	56.000	9.866	QP
10		0.626	25.398	15.532	-20.602	46.000	9.866	AV
11		0.750	31.904	22.071	-24.096	56.000	9.833	QP
12		0.750	24.798	14.965	-21.202	46.000	9.833	AV

**4. Radiated Emission**

**4.1. Test Equipment**

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
EMI Test Receiver	R&S	ESCI	100573	2014.03.30
Loop Antenna	R&S	HFH2-Z2	833799/003	2015.11.25
Bilog Chainenna	Teseq GmbH	CBL6112D	27611	2014.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2014.03.01
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2015.01.08

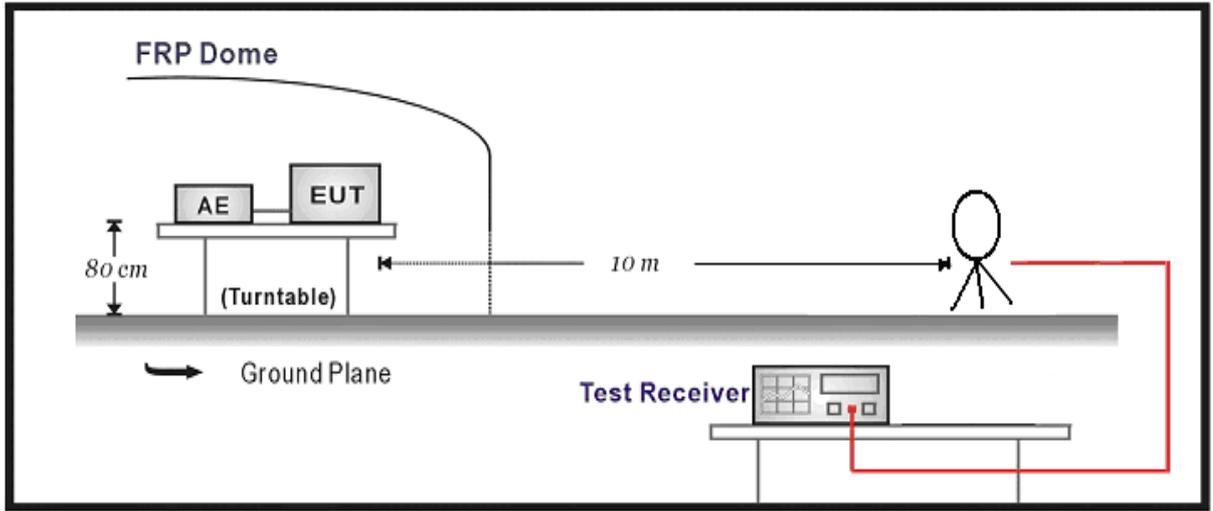
Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2014.03.30
Spectrum Analyzer	Agilent	E4446A	MY45300103	2015.01.07
Preamplifier	Miteq	NSP1800-25	1364185	2014.05.04
Preamplifier	QuieTek	AP-040G	CHM-0906001	2014.05.04
DRG Horn	ETS-Lindgren	3117	00123988	2014.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2014.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2014.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2014.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2014.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2015.01.08

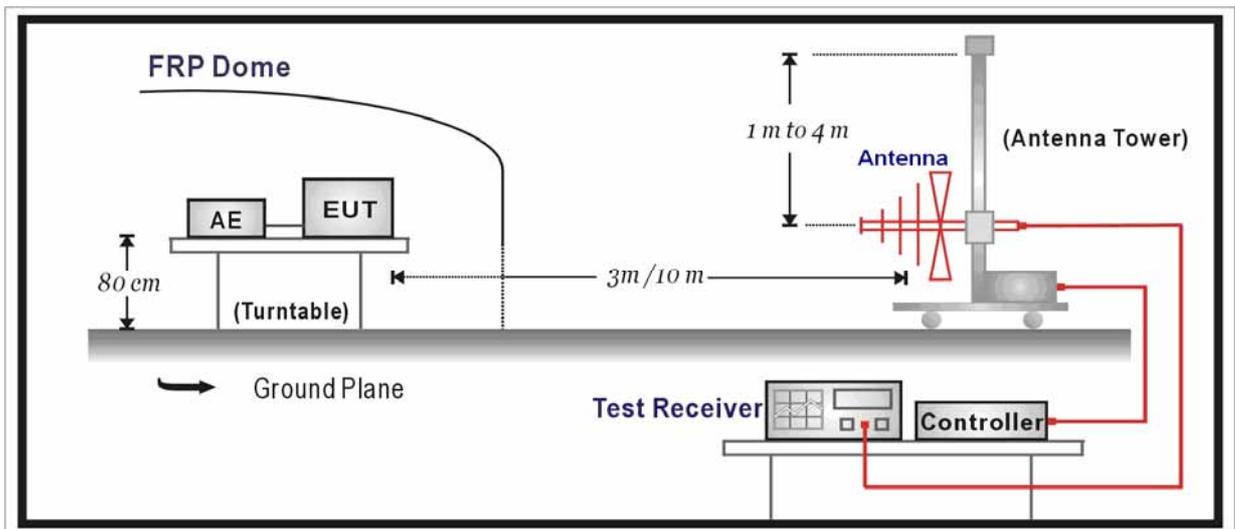
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 4.2. Test Setup

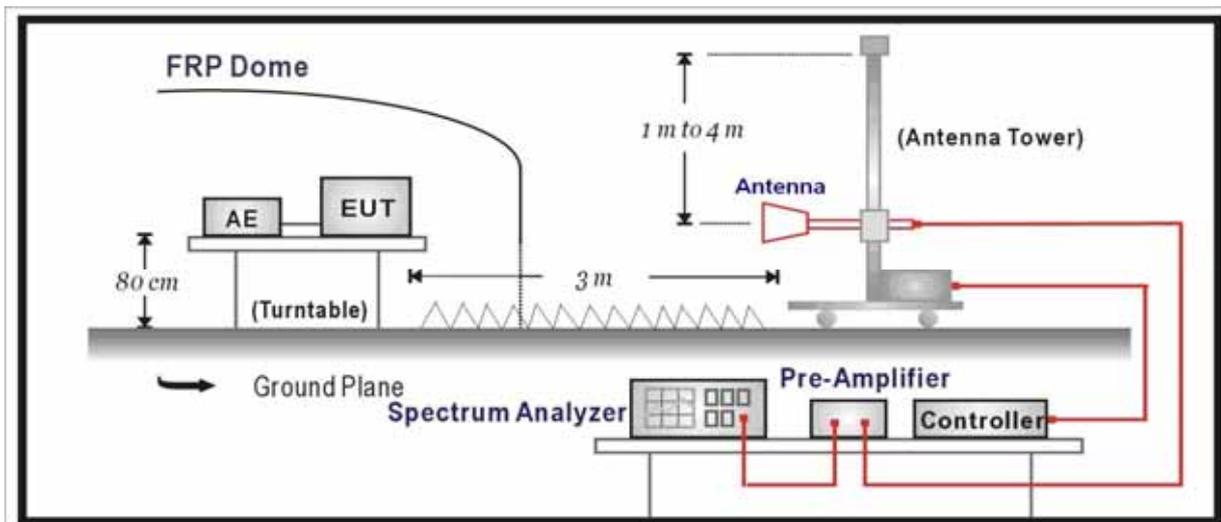
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



### 4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument Antenna and the closed point of any part of the device or system.

Note 3:  $E$  field strength (dBuV/m) =  $20 \log E$  field strength (uV/m)

### 4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from Antenna to the EUT was 3 meters.

The Antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This

is repeated for both horizontal and vertical polarization of the Antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn Antenna will be bended down a little (as horn Antenna has the narrow beamwidth) in order to keeping the Antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 10~60 degrees for H-plane and 10~90 degrees for E-plane.

#### **4.5. Uncertainty**

The measurement uncertainty above 1G is defined as  $\pm 3.9$  dB

below 1G is defined as  $\pm 3.8$  dB

**4.6. Test Result**

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preamplifier Gain

Mode1: Transmit at 802.11b (Ant 0)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4825.0	38.1	7.7	45.8	54(Note3)	-8.2	PK
	V	4825.0	45.8	7.6	53.4	54(Note3)	-0.6	PK
	H	7236.0	28.1	11.2	39.3	54(Note3)	-14.7	PK
	V	7236.0	27.6	11.2	38.8	54(Note3)	-15.2	PK
	H	9648.0	28.2	14.1	42.3	54(Note3)	-11.7	PK
	V	9648.0	27.9	14.2	42.1	54(Note3)	-11.9	PK
6	H	4876.0	32.2	7.2	39.4	54(Note3)	-14.6	PK
	V	4876.0	40.9	7.2	48.1	54(Note3)	-5.9	PK
	H	7311.0	29.8	10.8	40.6	54(Note3)	-13.4	PK
	V	7307.0	32.1	10.8	42.9	54(Note3)	-11.1	PK
	H	9748.0	27.4	12.6	40.0	54(Note3)	-14.0	PK
	V	9748.0	27.5	12.7	40.2	54(Note3)	-13.8	PK
11	H	4918.5	34.4	7.7	42.1	54(Note3)	-11.9	PK
	V	4927.0	45.3	7.8	53.1	54(Note3)	-0.9	PK
	H	7386.0	28.6	11.3	39.9	54(Note3)	-14.1	PK
	V	7386.0	29.8	11.3	41.1	54(Note3)	-12.9	PK
	H	9848.0	26.7	14.6	41.3	54(Note3)	-12.7	PK
	V	9848.0	26.2	14.7	40.9	54(Note3)	-13.1	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode1: Transmit at 802.11b (Ant 1)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	33.1	7.7	40.8	54(Note3)	-13.2	PK
	V	4825.0	42.0	7.6	49.6	54(Note3)	-4.4	PK
	H	7236.0	27.5	11.2	38.7	54(Note3)	-15.3	PK
	V	7239.0	30.0	11.2	41.2	54(Note3)	-12.8	PK
	H	9648.0	31.8	14.1	45.9	54(Note3)	-8.1	PK
	V	9636.0	38.6	14.1	52.7	54(Note3)	-1.3	PK
6	H	4876.0	34.3	7.6	41.9	54(Note3)	-12.1	PK
	V	4876.0	40.1	7.6	47.7	54(Note3)	-6.3	PK
	H	7311.0	27.7	11.3	39.0	54(Note3)	-15.0	PK
	V	7324.0	29.6	11.3	40.9	54(Note3)	-13.1	PK
	H	9748.0	27.5	14.3	41.8	54(Note3)	-12.2	PK
	V	9729.5	31.1	14.4	45.5	54(Note3)	-8.5	PK
11	H	4924.0	32.2	7.7	39.9	54(Note3)	-14.1	PK
	V	4927.0	42.4	7.8	50.2	54(Note3)	-3.8	PK
	H	7386.0	28.6	11.3	39.9	54(Note3)	-14.1	PK
	V	7386.0	28.8	11.3	40.1	54(Note3)	-13.9	PK
	H	9848.0	27.3	14.6	41.9	54(Note3)	-12.1	PK
	V	9848.0	27.9	14.7	42.6	54(Note3)	-11.4	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode2: Transmit at 802.11g (Ant 0)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	31.4	7.7	39.1	54(Note3)	-14.9	PK
	V	4825.0	37.8	7.6	45.4	54(Note3)	-8.6	PK
	H	7236.0	27.0	11.2	38.2	54(Note3)	-15.8	PK
	V	7236.0	27.0	11.2	38.2	54(Note3)	-15.8	PK
	H	9648.0	28.2	14.1	42.3	54(Note3)	-11.7	PK
	V	9648.0	27.8	14.2	42.0	54(Note3)	-12.0	PK
6	H	4876.0	33.2	7.2	40.4	54(Note3)	-13.6	PK
	V	4876.0	43.4	7.2	50.6	54(Note3)	-3.4	PK
	H	7307.0	36.6	10.8	47.4	54(Note3)	-6.6	PK
	V	7290.0	37.0	10.8	47.8	54(Note3)	-6.2	PK
	H	9748.0	27.2	12.6	39.8	54(Note3)	-14.3	PK
	V	9755.0	31.5	12.7	44.2	54(Note3)	-9.8	PK
11	H	4924.0	30.6	7.7	38.3	54(Note3)	-15.7	PK
	V	4924.0	30.7	7.8	38.5	54(Note3)	-15.5	PK
	H	7386.0	28.4	11.3	39.7	54(Note3)	-14.3	PK
	V	7386.0	28.3	11.3	39.6	54(Note3)	-14.4	PK
	H	9848.0	26.7	14.6	41.3	54(Note3)	-12.7	PK
	V	9848.0	26.7	14.7	41.4	54(Note3)	-12.6	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode2: Transmit at 802.11g (Ant 1)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	30.0	7.7	37.7	54(Note3)	-16.3	PK
	V	4824.0	30.7	7.6	38.3	54(Note3)	-15.7	PK
	H	7236.0	26.7	11.2	37.9	54(Note3)	-16.1	PK
	V	7236.0	27.0	11.2	38.2	54(Note3)	-15.8	PK
	H	9648.0	28.7	14.1	42.8	54(Note3)	-11.2	PK
	V	9648.0	28.6	14.2	42.8	54(Note3)	-11.2	PK
6	H	4876.0	36.6	7.2	43.8	54(Note3)	-10.2	PK
	V	4876.0	46.2	7.2	53.4	54(Note3)	-0.6	PK
	H	7311.0	29.0	10.8	39.8	54(Note3)	-14.2	PK
	V	7311.0	30.2	10.8	41.0	54(Note3)	-13.0	PK
	H	9755.0	32.7	12.6	45.3	54(Note3)	-8.7	PK
	V	9755.0	38.9	12.7	51.6	54(Note3)	-2.4	PK
11	H	4924.0	30.5	7.7	38.2	54(Note3)	-15.8	PK
	V	4918.5	34.6	7.7	42.3	54(Note3)	-11.7	PK
	H	7386.0	28.7	11.3	40.0	54(Note3)	-14.0	PK
	V	7386.0	28.9	11.3	40.2	54(Note3)	-13.8	PK
	H	9848.0	27.1	14.6	41.7	54(Note3)	-12.3	PK
	V	9848.0	27.0	14.7	41.7	54(Note3)	-12.3	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode3: Transmit at 802.11n(20MHz) (Ant 0)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	29.7	7.7	37.4	54(Note3)	-16.6	PK
	V	4824.0	31.0	7.6	38.6	54(Note3)	-15.4	PK
	H	7236.0	26.7	11.2	37.9	54(Note3)	-16.1	PK
	V	7236.0	27.5	11.2	38.7	54(Note3)	-15.3	PK
	H	9648.0	28.5	14.1	42.6	54(Note3)	-11.4	PK
	V	9648.0	27.7	14.2	41.9	54(Note3)	-12.1	PK
6	H	4874.0	32.1	7.2	39.3	54(Note3)	-14.7	PK
	V	4876.0	42.1	7.2	49.3	54(Note3)	-4.7	PK
	H	7307.0	32.2	10.8	43.0	54(Note3)	-11.0	PK
	V	7307.0	35.2	10.8	46.0	54(Note3)	-8.0	PK
	H	9748.0	27.2	12.6	39.8	54(Note3)	-14.2	PK
	V	9748.0	28.0	12.7	40.7	54(Note3)	-13.3	PK
11	H	4924.0	30.3	7.7	38.0	54(Note3)	-16.0	PK
	V	4927.0	40.1	7.8	47.9	54(Note3)	-6.1	PK
	H	7386.0	28.6	11.3	39.9	54(Note3)	-14.1	PK
	V	7386.0	28.4	11.3	39.7	54(Note3)	-14.3	PK
	H	9848.0	26.4	14.6	41.0	54(Note3)	-13.0	PK
	V	9848.0	26.5	14.7	41.2	54(Note3)	-12.8	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode3: Transmit at 802.11n(20MHz) (Ant 1)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	30.1	7.7	37.8	54(Note3)	-16.2	PK
	V	4824.0	30.8	7.6	38.4	54(Note3)	-15.6	PK
	H	7236.0	27.0	11.2	38.2	54(Note3)	-15.8	PK
	V	7236.0	27.1	11.2	38.3	54(Note3)	-15.7	PK
	H	9648.0	27.9	14.1	42.0	54(Note3)	-12.0	PK
	V	9648.0	28.9	14.2	43.1	54(Note3)	-10.9	PK
6	H	4876.0	35.2	7.2	42.4	54(Note3)	-11.6	PK
	V	4876.0	44.9	7.2	52.1	54(Note3)	-1.9	PK
	H	7311.0	28.2	10.8	39.0	54(Note3)	-15.0	PK
	V	7311.0	31.4	10.8	42.2	54(Note3)	-11.8	PK
	H	9755.0	33.4	12.6	46.0	54(Note3)	-8.0	PK
	V	9738.0	37.1	12.6	49.7	54(Note3)	-4.3	PK
11	H	4924.0	30.6	7.7	38.3	54(Note3)	-15.7	PK
	V	4924.0	35.6	7.8	43.4	54(Note3)	-10.6	PK
	H	7386.0	28.4	11.3	39.7	54(Note3)	-14.3	PK
	V	7386.0	28.3	11.3	39.6	54(Note3)	-14.4	PK
	H	9848.0	26.4	14.6	41.0	54(Note3)	-13.0	PK
	V	9848.0	26.9	14.7	41.6	54(Note3)	-12.4	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode3: Transmit at 802.11n(20MHz) (Ant 0+1)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4824.0	29.5	7.7	37.2	54(Note3)	-16.8	PK
	V	4824.0	34.6	7.6	42.2	54(Note3)	-11.8	PK
	H	7236.0	28.1	11.2	39.3	54(Note3)	-14.7	PK
	V	7236.0	26.9	11.2	38.1	54(Note3)	-15.9	PK
	H	9648.0	28.1	14.1	42.2	54(Note3)	-11.8	PK
	V	9648.0	28.0	14.2	42.2	54(Note3)	-11.8	PK
6	H	4874.0	30.5	7.2	37.7	54(Note3)	-16.3	PK
	V	4876.0	38.5	7.2	45.7	54(Note3)	-8.3	PK
	H	7311.0	27.5	10.8	38.3	54(Note3)	-15.7	PK
	V	7311.0	28.2	10.8	39.0	54(Note3)	-15.0	PK
	H	9748.0	28.6	12.6	41.2	54(Note3)	-12.8	PK
	V	9748.0	27.6	12.7	40.3	54(Note3)	-13.7	PK
11	H	4924.0	30.7	7.7	38.4	54(Note3)	-15.6	PK
	V	4924.0	39.3	7.8	47.1	54(Note3)	-6.9	PK
	H	7386.0	29.0	11.3	40.3	54(Note3)	-13.7	PK
	V	7386.0	28.4	11.3	39.7	54(Note3)	-14.3	PK
	H	9848.0	27.0	14.6	41.6	54(Note3)	-12.4	PK
	V	9848.0	26.9	14.7	41.6	54(Note3)	-12.4	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode4: Transmit at 802.11n(40MHz) (Ant 0)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4844.0	30.6	7.7	38.3	54(Note3)	-15.7	PK
	V	4844.0	32.7	7.6	40.3	54(Note3)	-13.7	PK
	H	7266.0	27.4	11.2	38.6	54(Note3)	-15.4	PK
	V	7266.0	27.5	11.2	38.7	54(Note3)	-15.3	PK
	H	9688.0	27.6	14.3	41.8	54(Note3)	-12.2	PK
	V	9688.0	27.1	14.3	41.4	54(Note3)	-12.6	PK
6	H	4874.0	29.6	7.2	36.8	54(Note3)	-17.2	PK
	V	4874.0	29.7	7.2	36.9	54(Note3)	-17.1	PK
	H	7311.0	27.8	10.8	38.6	54(Note3)	-15.4	PK
	V	7311.0	28.3	10.8	39.1	54(Note3)	-14.9	PK
	H	9748.0	27.4	12.6	40.0	54(Note3)	-14.0	PK
	V	9748.0	27.8	12.7	40.5	54(Note3)	-13.5	PK
11	H	4904.0	30.7	7.6	38.3	54(Note3)	-15.7	PK
	V	4904.0	32.9	7.7	40.6	54(Note3)	-13.4	PK
	H	7356.0	27.7	11.3	39.0	54(Note3)	-15.0	PK
	V	7356.0	28.6	11.3	39.9	54(Note3)	-14.1	PK
	H	9808.0	26.4	14.5	40.9	54(Note3)	-13.1	PK
	V	9808.0	26.9	14.6	41.5	54(Note3)	-12.5	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode4: Transmit at 802.11n(40MHz) (Ant 1)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	4844.0	30.4	7.7	38.1	54(Note3)	-15.9	PK
	V	4844.0	30.9	7.6	38.5	54(Note3)	-15.5	PK
	H	7266.0	27.4	11.2	38.6	54(Note3)	-15.4	PK
	V	7266.0	27.4	11.2	38.6	54(Note3)	-15.4	PK
	H	9688.0	27.3	14.3	41.5	54(Note3)	-12.5	PK
	V	9688.0	28.7	14.3	43.0	54(Note3)	-11.0	PK
6	H	4874.0	30.9	7.2	38.1	54(Note3)	-15.9	PK
	V	4876.0	40.9	7.2	48.1	54(Note3)	-5.9	PK
	H	7311.0	27.9	10.8	38.7	54(Note3)	-15.3	PK
	V	7311.0	28.1	10.8	38.9	54(Note3)	-15.1	PK
	H	9748.0	28.1	12.6	40.7	54(Note3)	-13.3	PK
	V	9721.0	31.1	12.6	43.7	54(Note3)	-10.3	PK
11	H	4904.0	30.0	7.6	37.6	54(Note3)	-16.4	PK
	V	4904.0	32.4	7.7	40.1	54(Note3)	-13.9	PK
	H	7356.0	27.9	11.3	39.2	54(Note3)	-14.8	PK
	V	7356.0	28.0	11.3	39.3	54(Note3)	-14.7	PK
	H	9808.0	28.3	14.5	42.8	54(Note3)	-11.2	PK
	V	9808.0	26.9	14.6	41.5	54(Note3)	-12.5	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode4: Transmit at 802.11n(40MHz) (Ant 0+1)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	H	4844.0	30.4	7.7	38.1	54(Note3)	-15.9	PK
	V	4844.0	30.9	7.6	38.5	54(Note3)	-15.5	PK
	H	7266.0	27.2	11.2	38.4	54(Note3)	-15.6	PK
	V	7266.0	27.5	11.2	38.7	54(Note3)	-15.3	PK
	H	9688.0	27.2	14.3	41.5	54(Note3)	-12.5	PK
	V	9688.0	27.6	14.3	41.9	54(Note3)	-12.1	PK
6	H	4874.0	32.7	7.2	39.9	54(Note3)	-14.1	PK
	V	4859.0	39.1	7.1	46.2	54(Note3)	-7.8	PK
	H	7311.0	27.7	10.8	38.5	54(Note3)	-15.5	PK
	V	7311.0	29.2	10.8	40.0	54(Note3)	-14.0	PK
	H	9748.0	27.9	12.6	40.5	54(Note3)	-13.5	PK
	V	9738.0	30.8	12.6	43.4	54(Note3)	-10.6	PK
9	H	4904.0	30.3	7.6	37.9	54(Note3)	-16.1	PK
	V	4904.0	31.8	7.7	39.5	54(Note3)	-14.5	PK
	H	7356.0	27.6	11.3	38.9	54(Note3)	-15.1	PK
	V	7356.0	28.4	11.3	39.7	54(Note3)	-14.3	PK
	H	9808.0	26.3	14.5	40.8	54(Note3)	-13.2	PK
	V	9808.0	27.3	14.6	41.9	54(Note3)	-12.1	PK

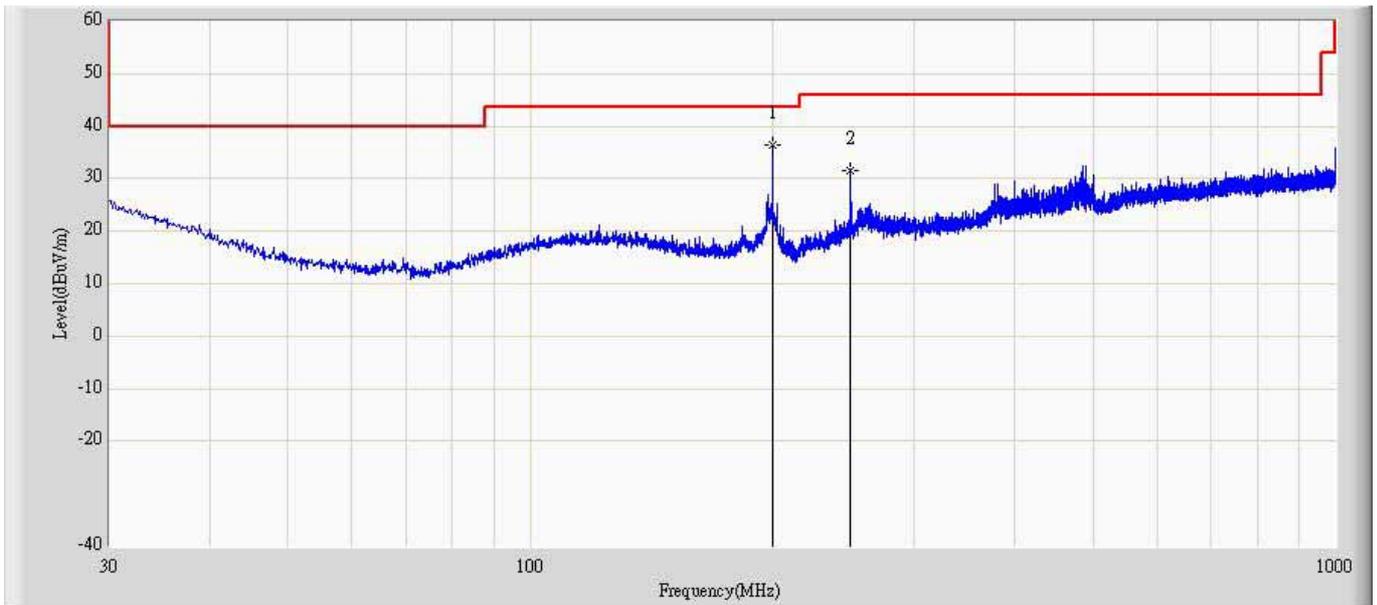
Note: 1. Measure Level = Reading Level + Factor.

2. The test trace is same as the ambient noise (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

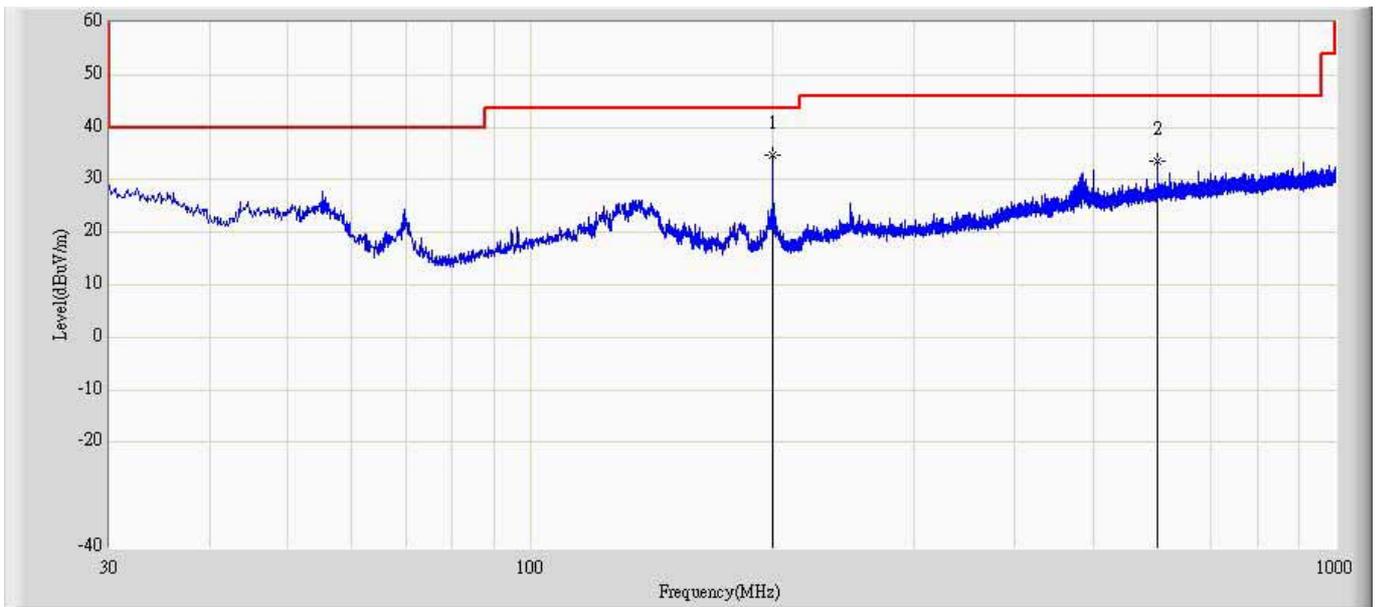
### The worst case of Radiated Emission below 1GHz:

Site: AC2	Time: 2014/01/11 - 10:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: GPON Terminal	Power: AC 120V/60Hz
Note: Mode1: Transmit at channel 2412MHz by 802.11b ant 0	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	199.992	36.525	20.315	-6.975	43.500	16.210	QP
2		249.947	31.638	12.259	-14.362	46.000	19.379	QP

Site: AC2	Time: 2014/01/11 - 10:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: GPON Terminal	Power: AC 120V/60Hz
Note: Mode1: Transmit at channel 2412MHz by 802.11b ant 0	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	199.992	34.577	18.367	-8.923	43.500	16.210	QP
2		599.996	33.497	6.672	-12.503	46.000	26.825	QP

## 5. RF Antenna Conducted Spurious

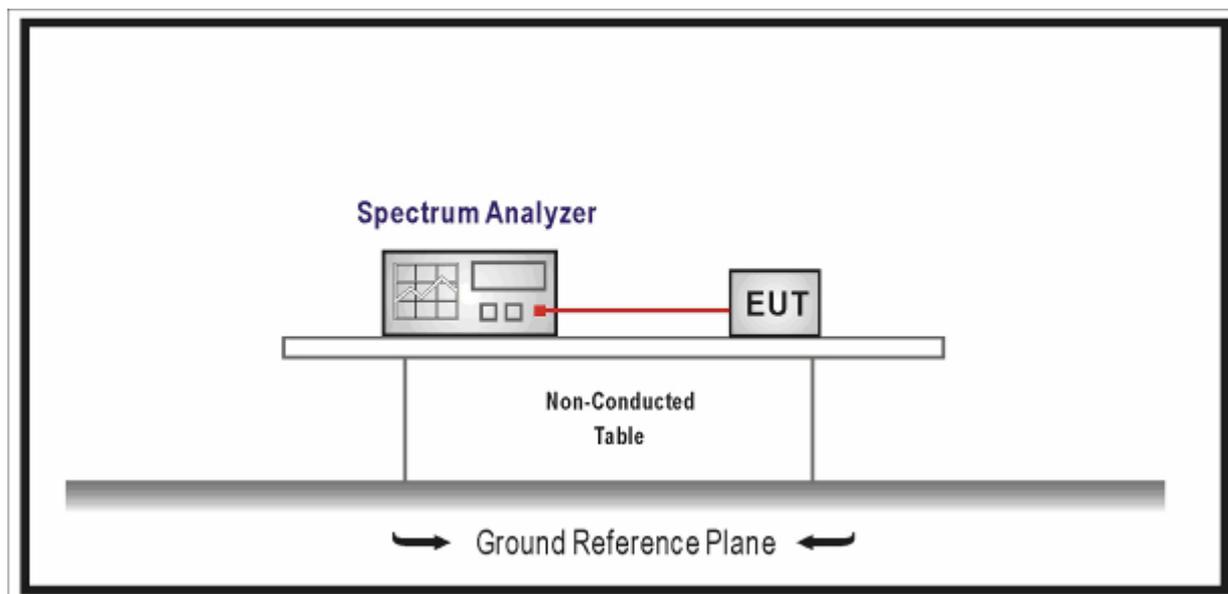
### 5.1. Test Equipment

RF Antenna Conducted Spurious / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2014.03.30
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2014.05.08

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 5.2. Test Setup



### 5.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

#### **5.4. Test Procedure**

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

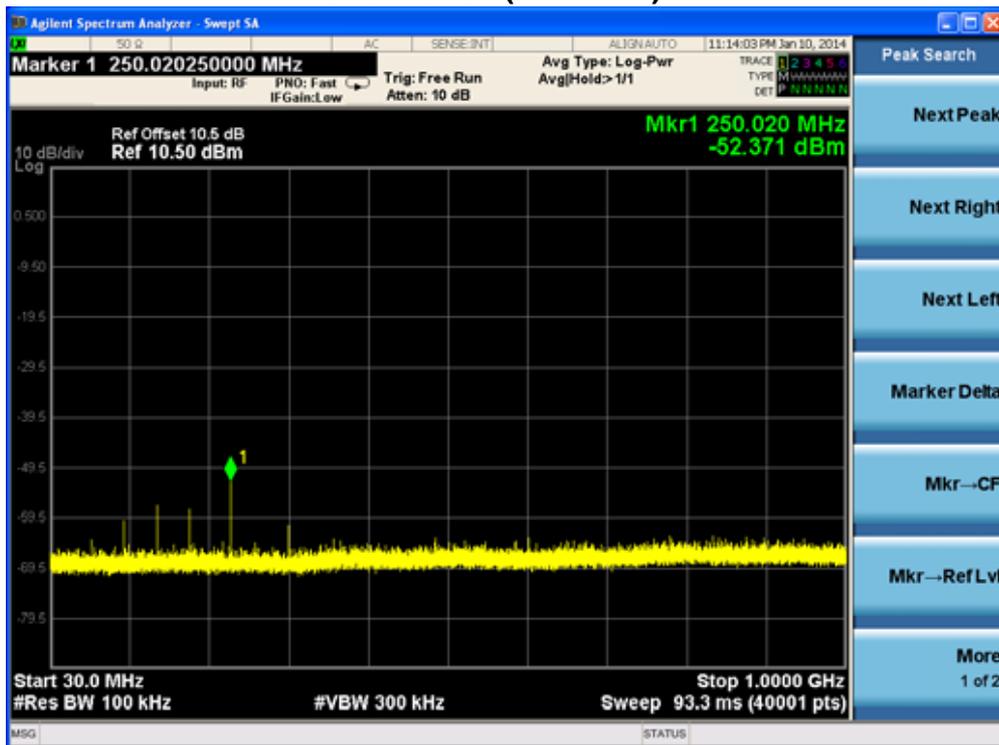
#### **5.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 1.27$  dB

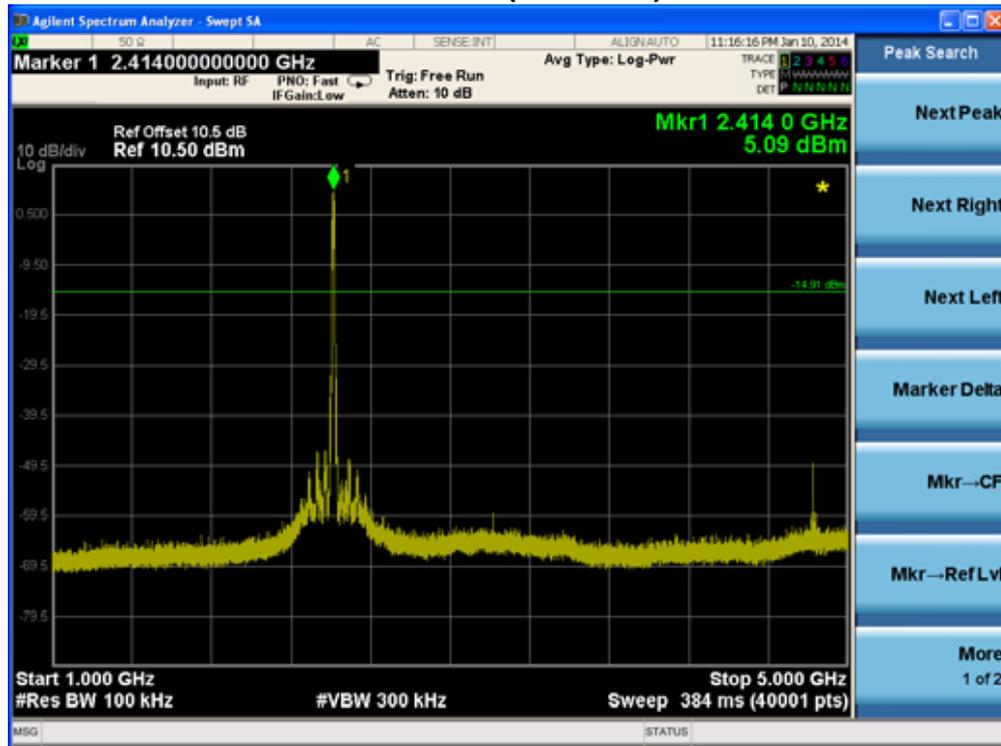
5.6. Test Result

Product	: GPON Terminal
Test Item	: RF Antenna Conducted Spurious
Test Site	: TR-8
Test Mode	: Mode 1: Transmit by 802.11b Ant 0

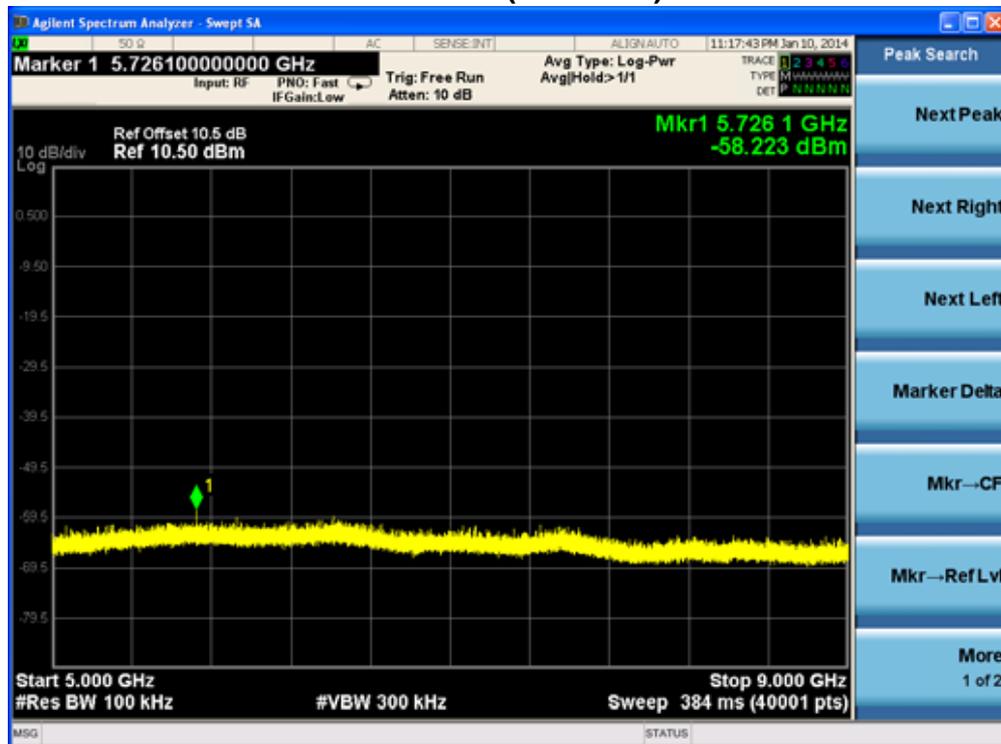
Channel 01 (2412MHz)-1



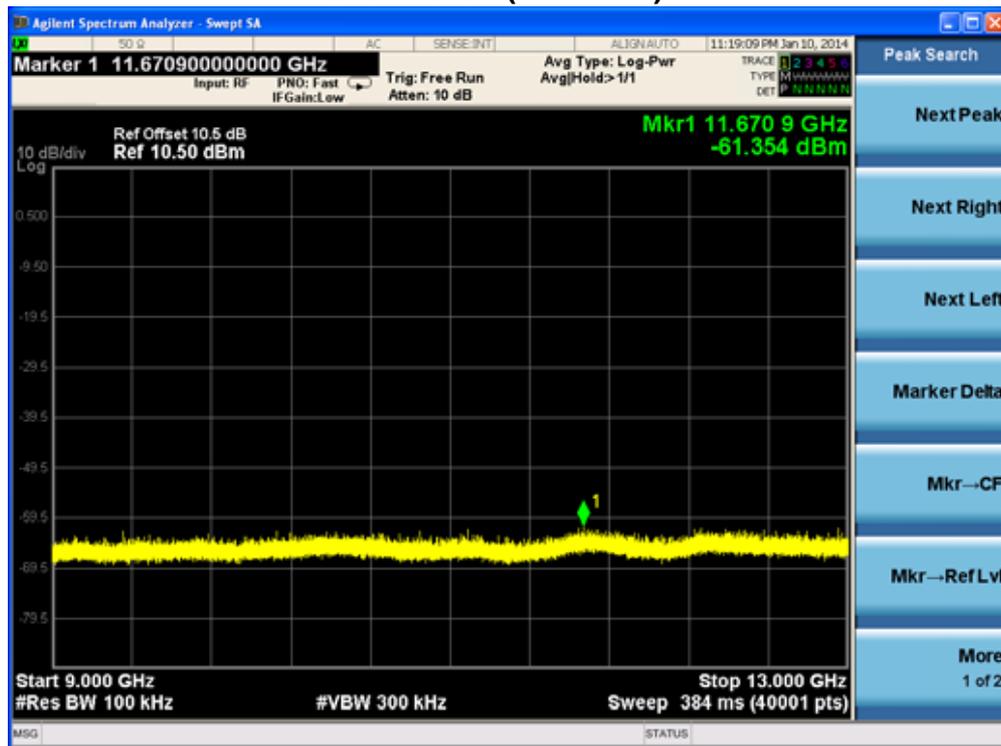
Channel 01 (2412MHz)-2



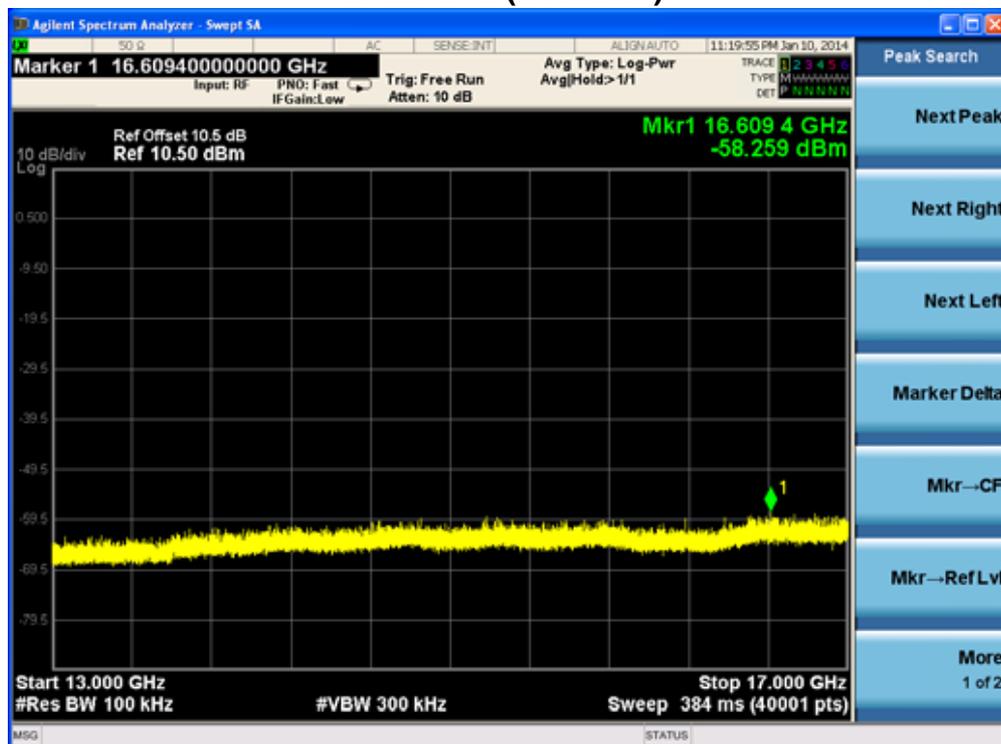
Channel 01 (2412MHz)-3



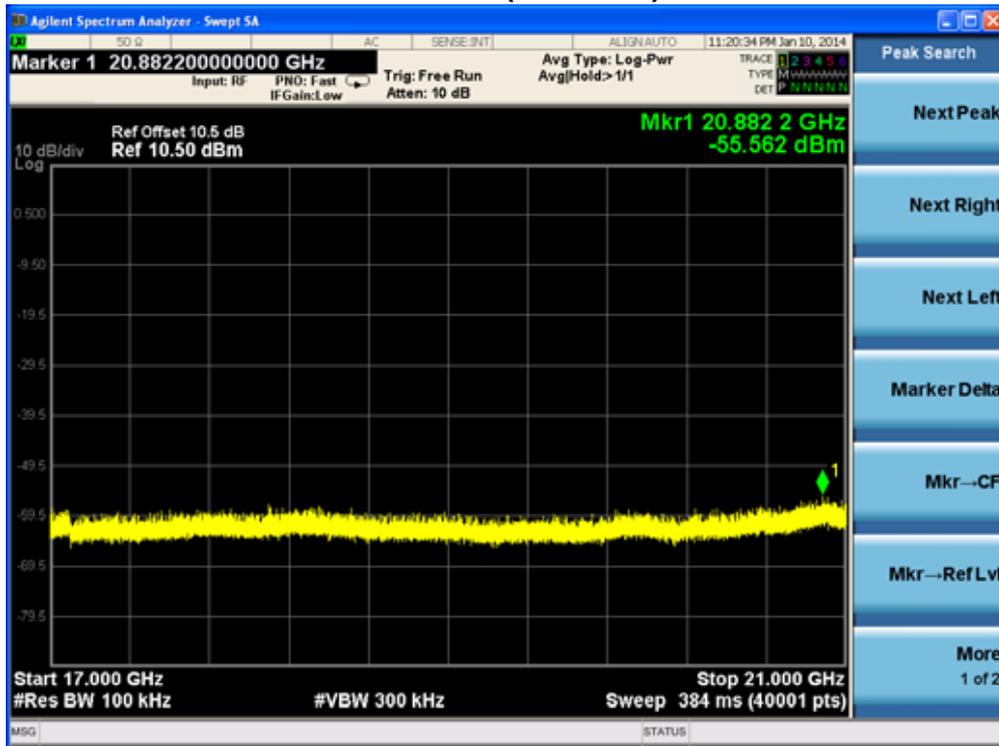
Channel 01 (2412MHz)-4



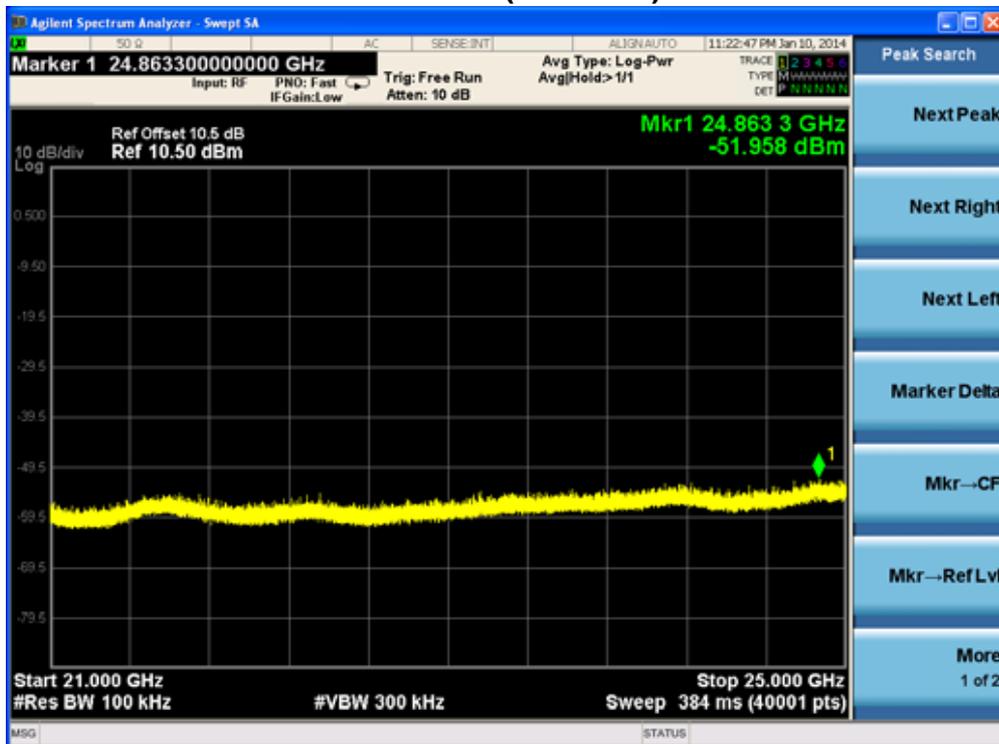
Channel 01 (2412MHz)-5



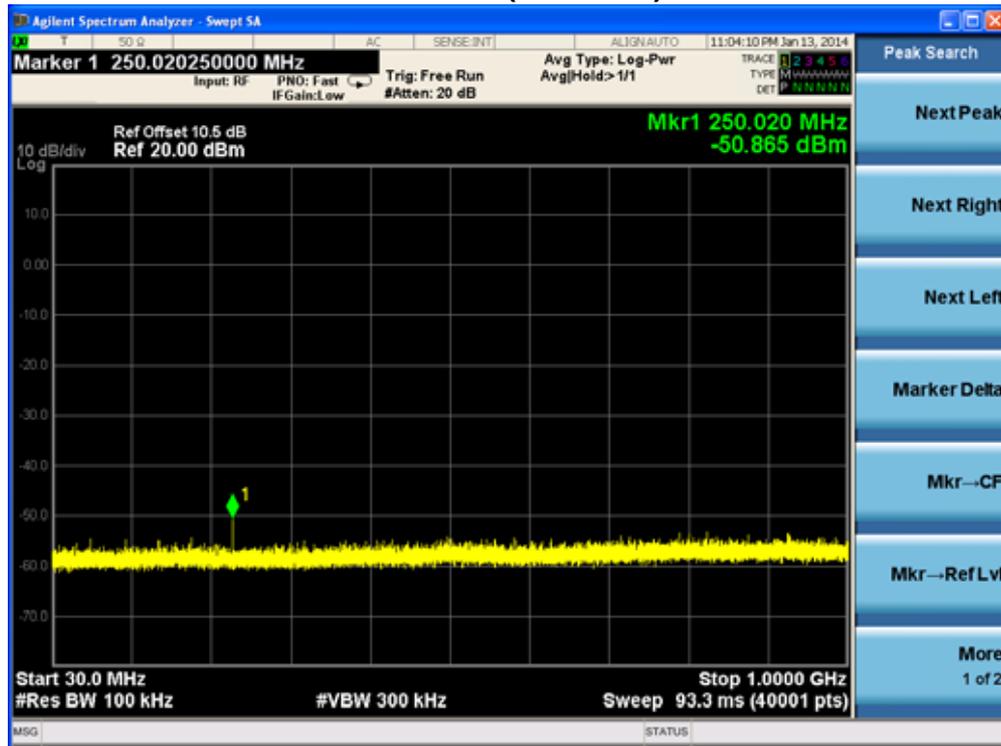
Channel 01 (2412MHz)-6



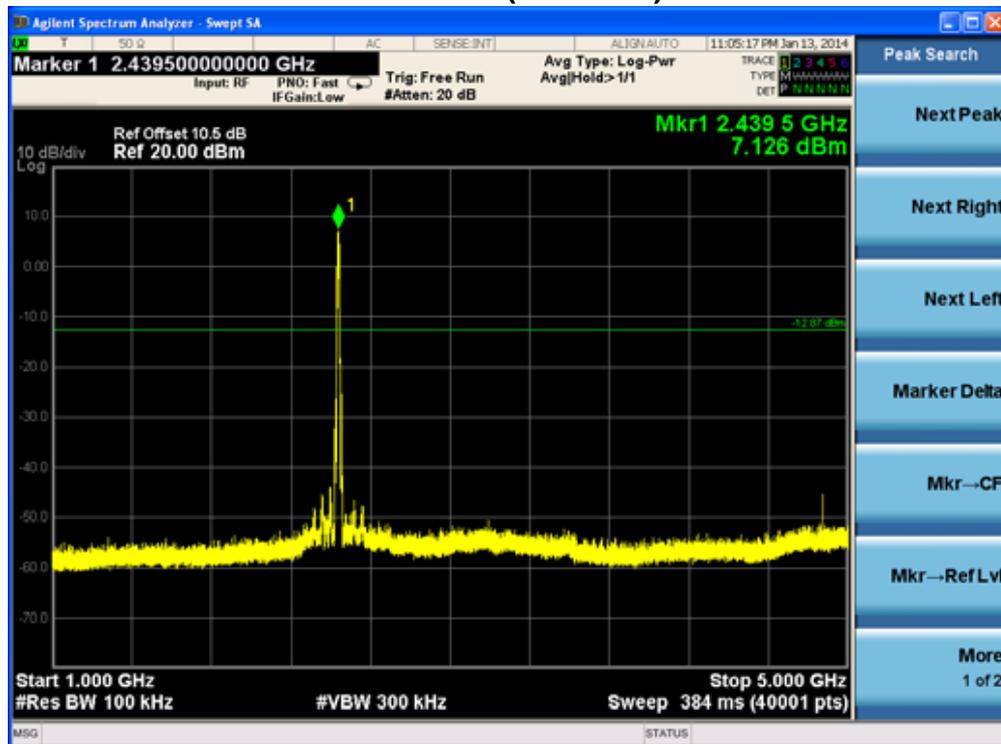
Channel 01 (2412MHz)-7



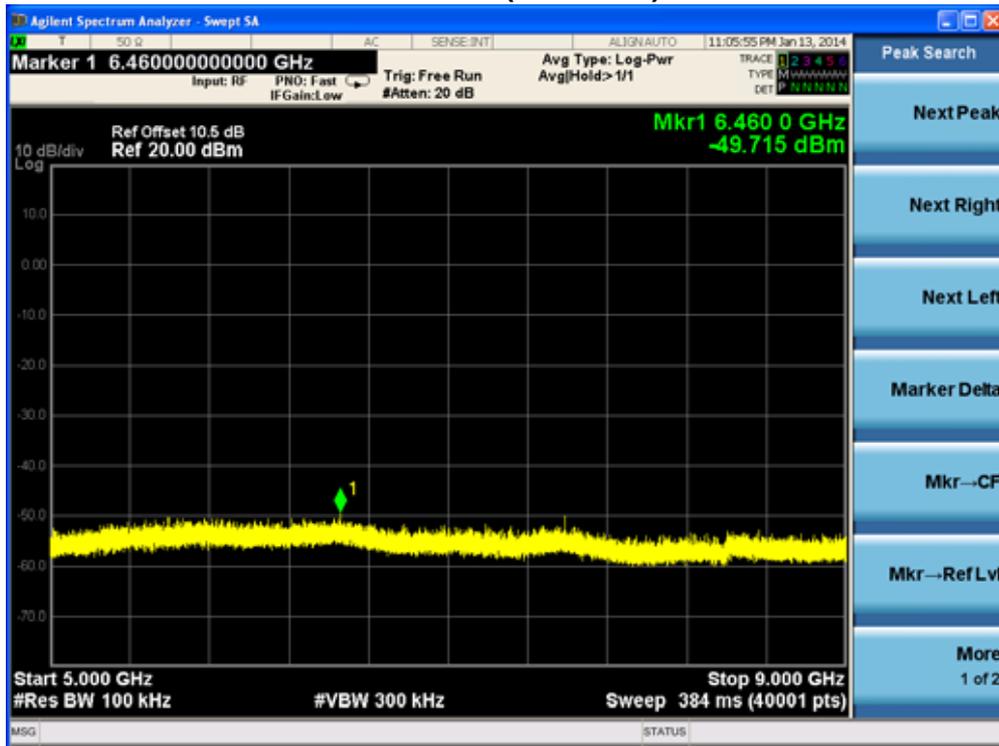
Channel 06 (2437MHz)-1



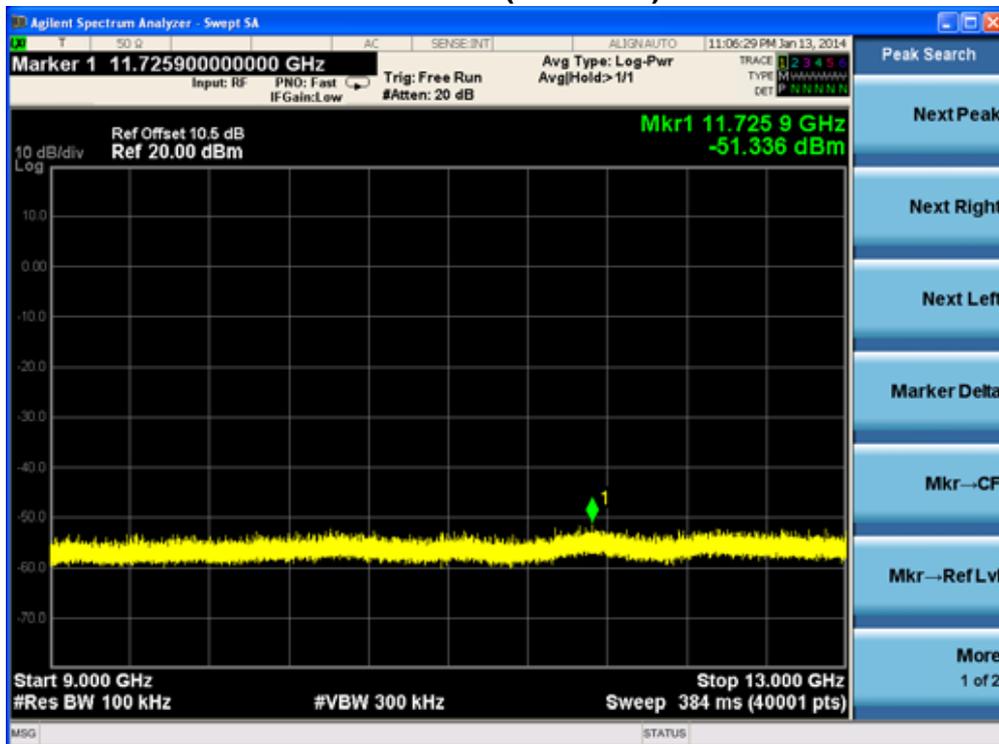
Channel 06 (2437MHz)-2



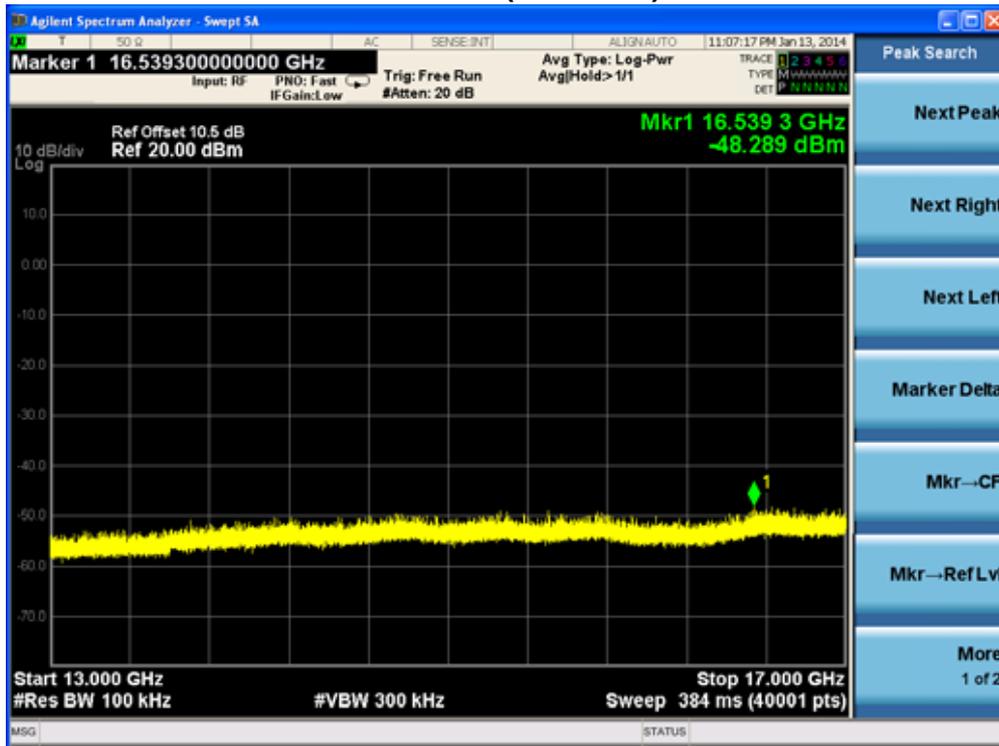
Channel 06 (2437MHz)-3



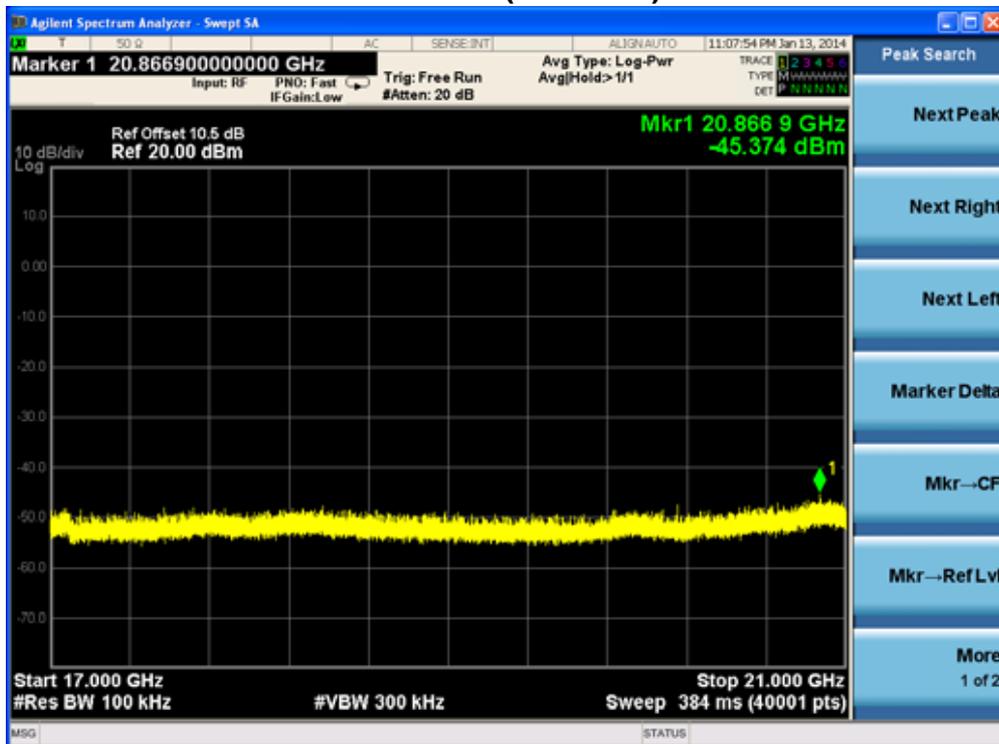
Channel 06 (2437MHz)-4



Channel 06 (2437MHz)-5



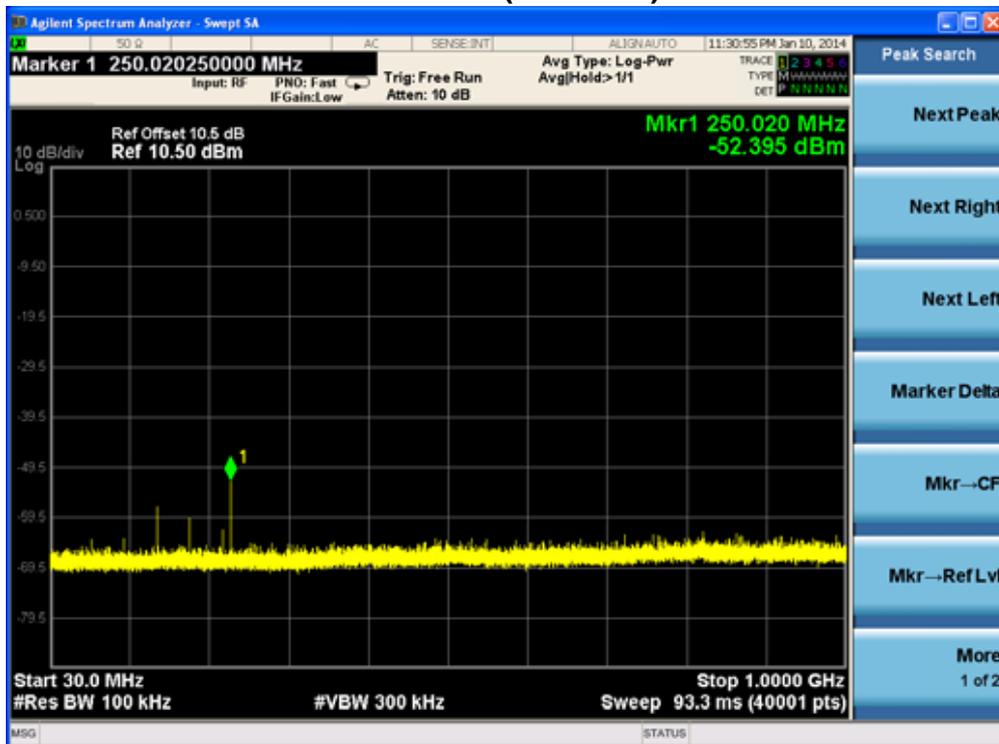
Channel 06 (2437MHz)-6



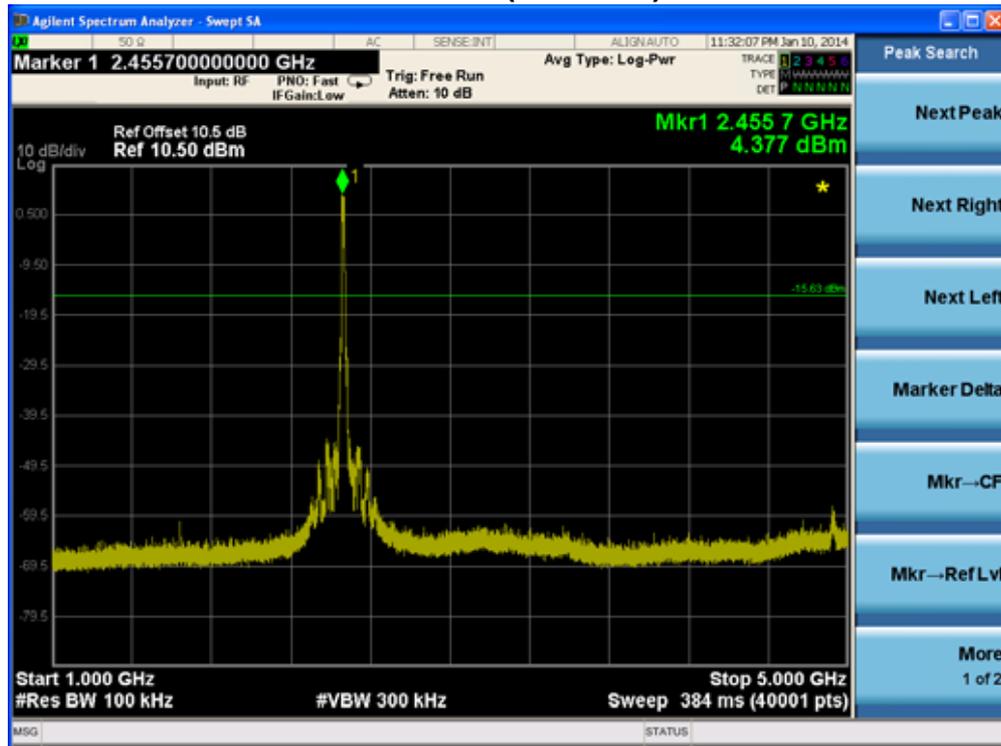
Channel 06 (2437MHz)-7



Channel 11 (2462MHz)-1



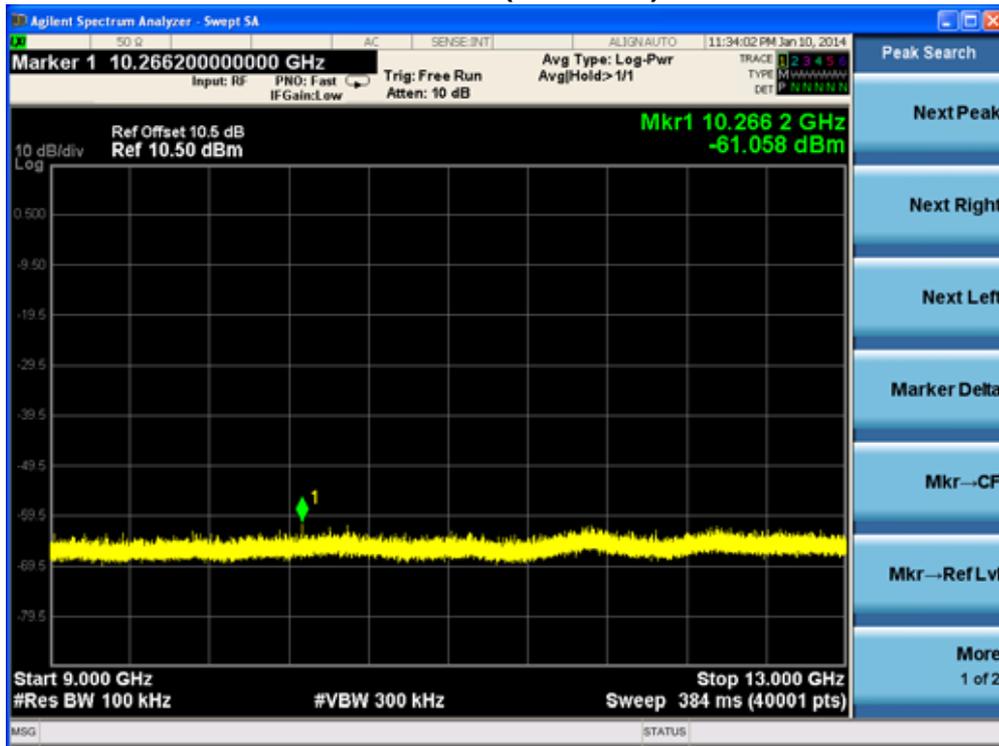
Channel 11 (2462MHz)-2



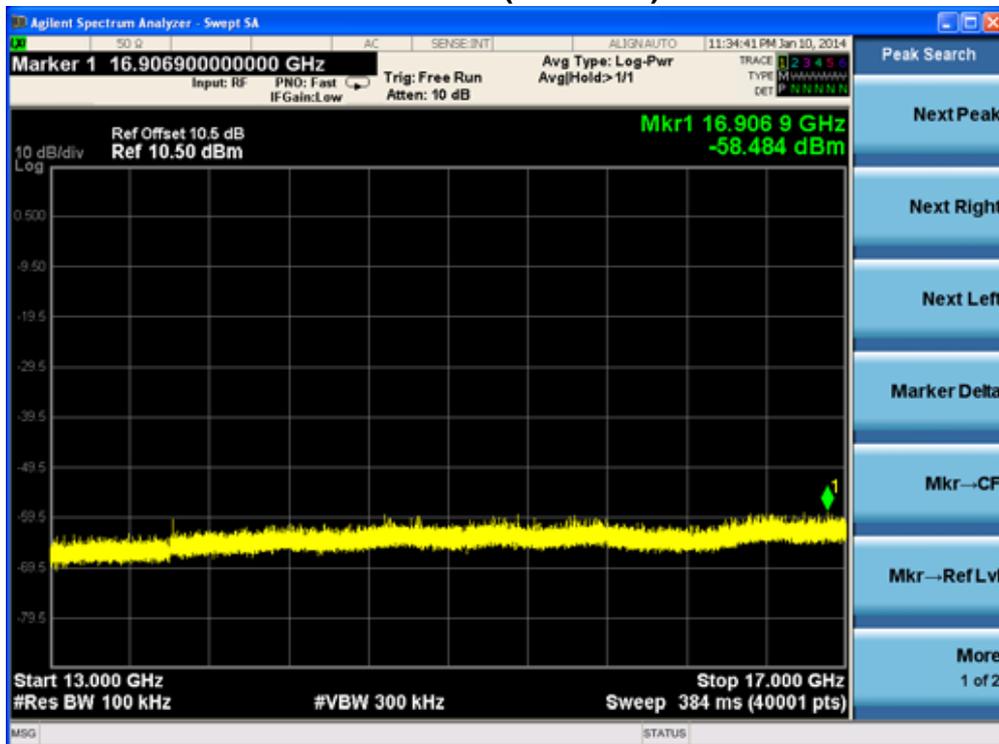
Channel 11 (2462MHz)-3



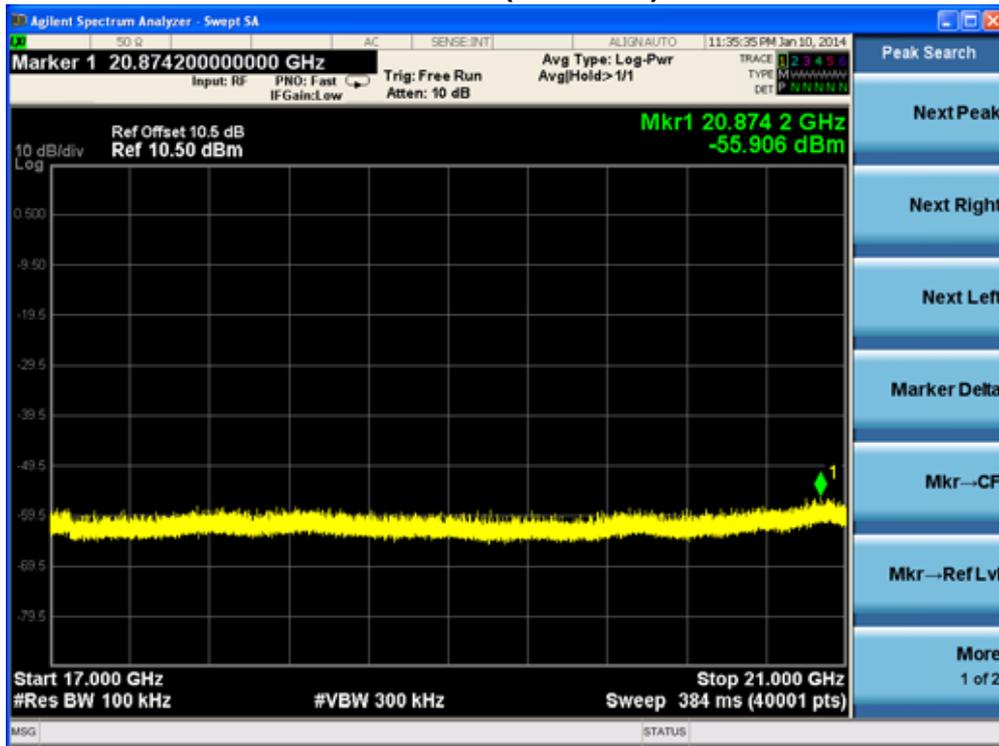
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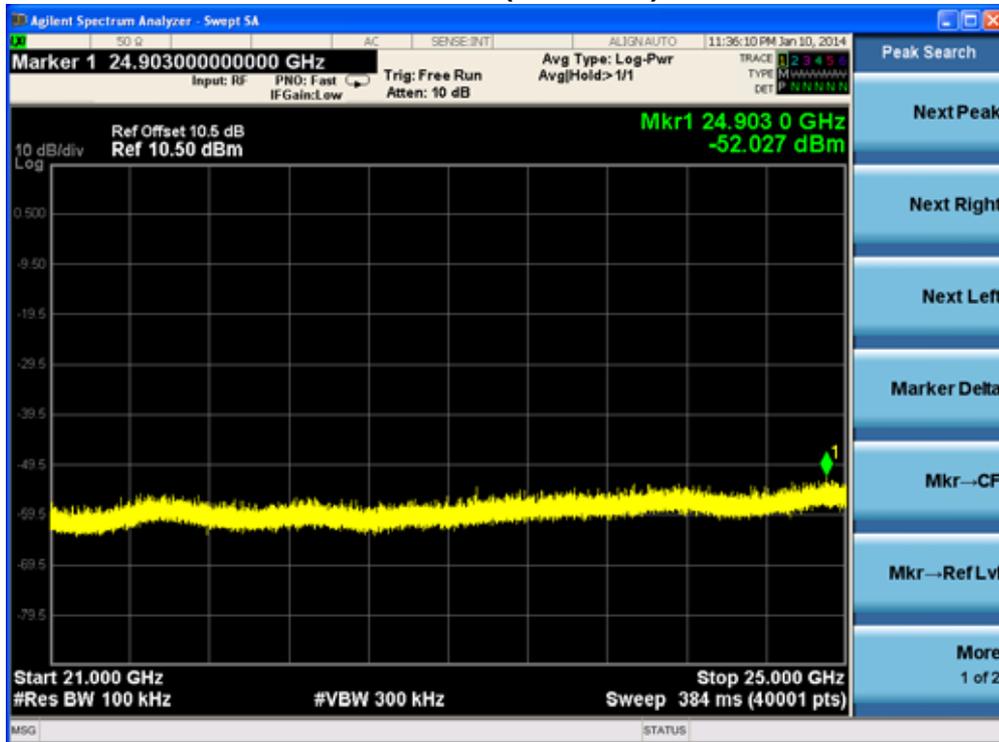
Channel 11 (2462MHz)-5



Channel 11 (2462MHz)-6

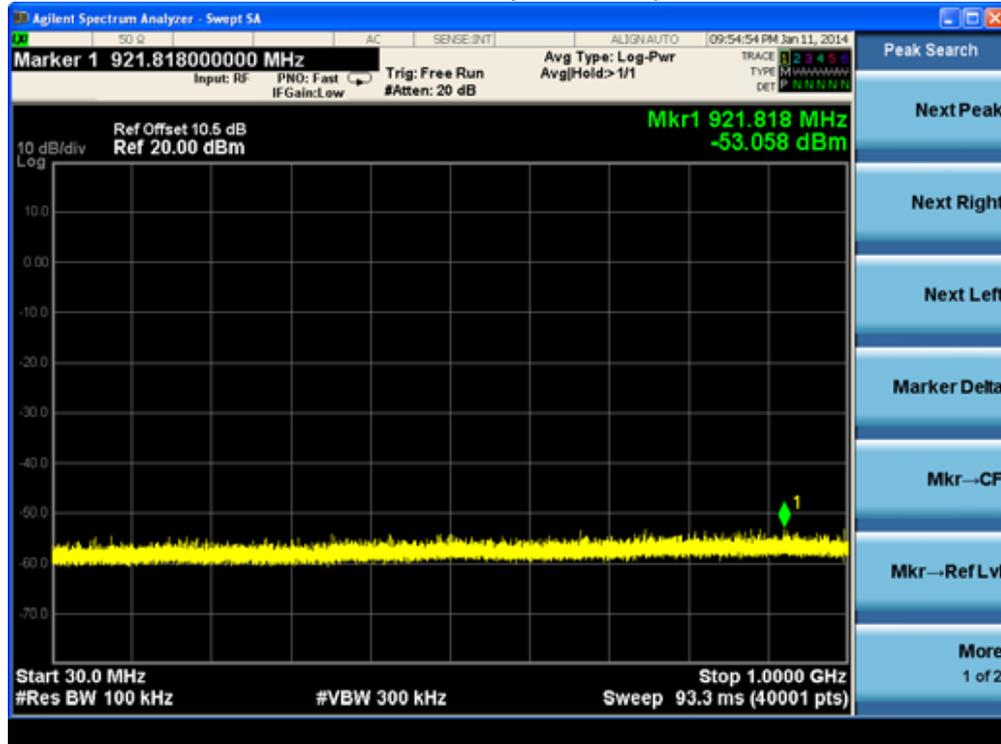


Channel 11 (2462MHz)-7

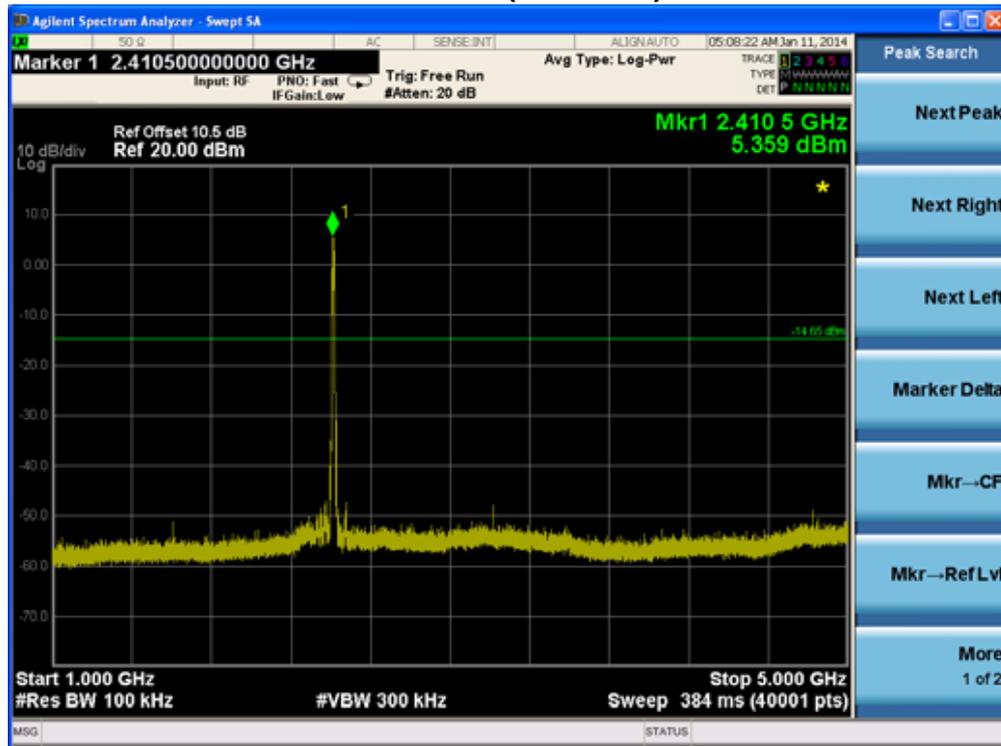


Product	: GPON Terminal
Test Item	: RF Antenna Conducted Spurious
Test Site	: TR-8
Test Mode	: Mode 1: Transmit by 802.11b Ant 1

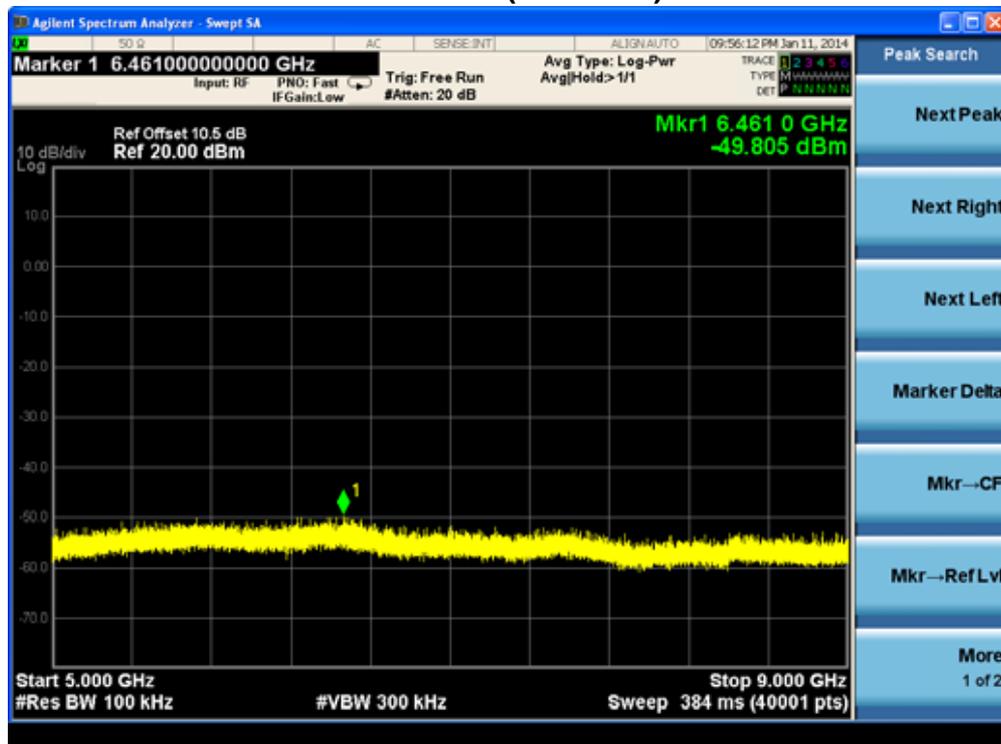
Channel 01 (2412MHz)-1



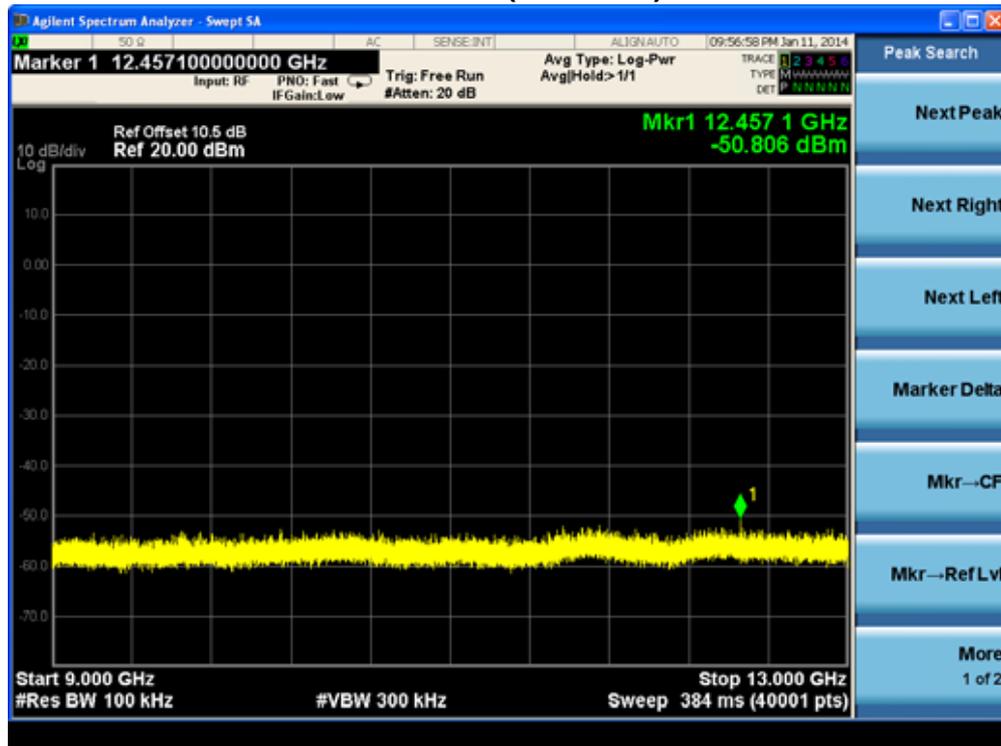
Channel 01 (2412MHz)-2



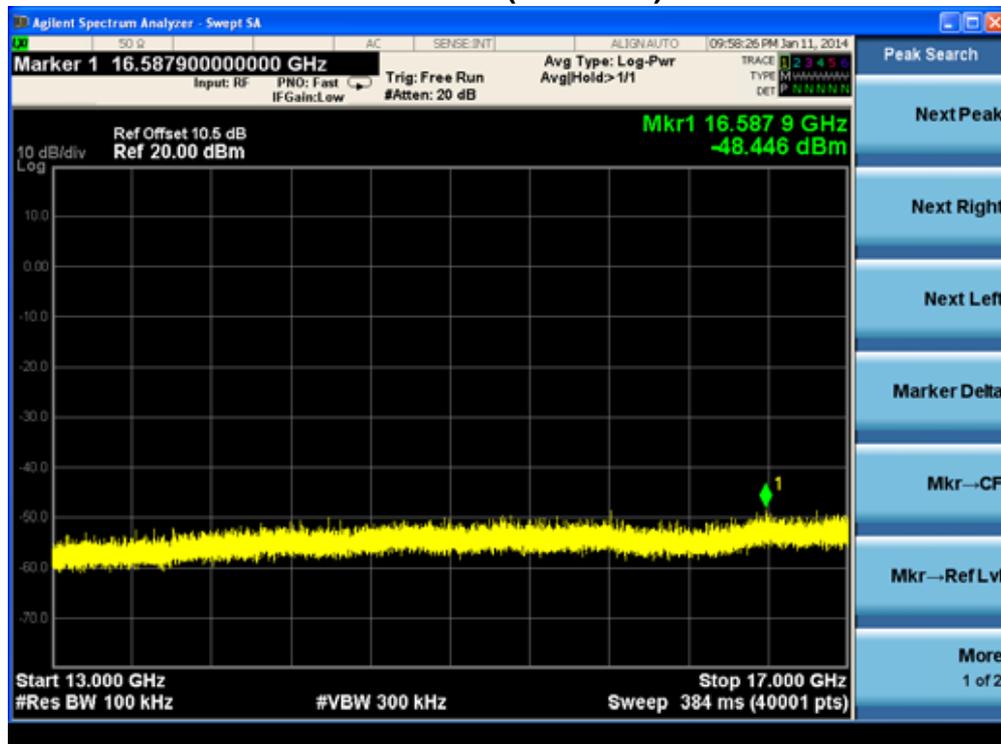
Channel 01 (2412MHz)-3



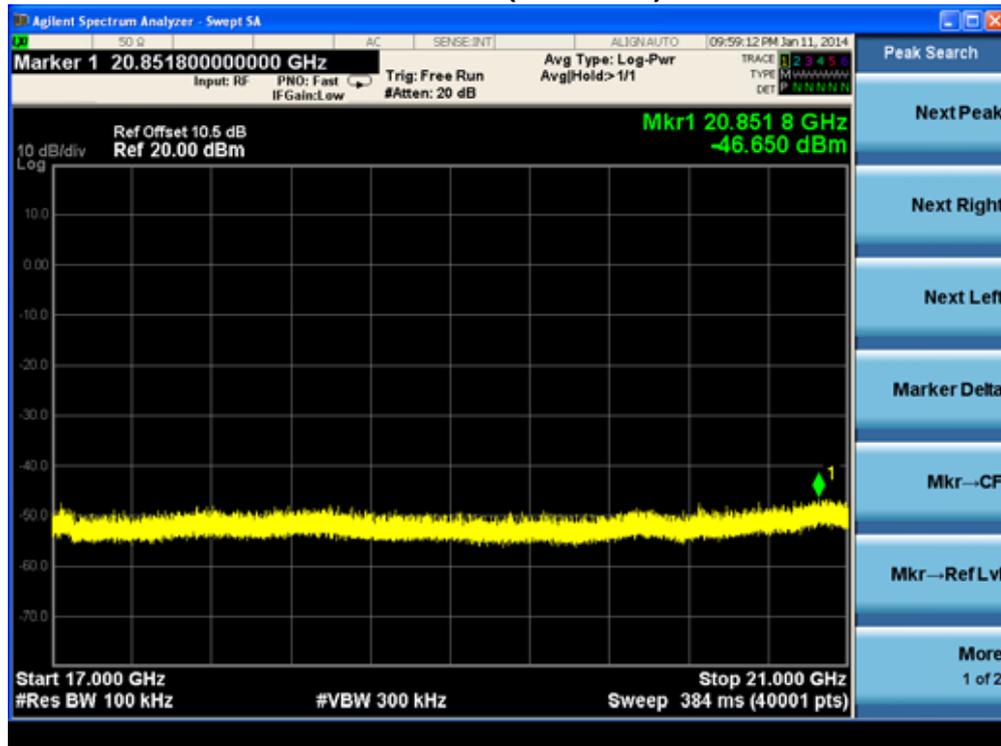
Channel 01 (2412MHz)-4



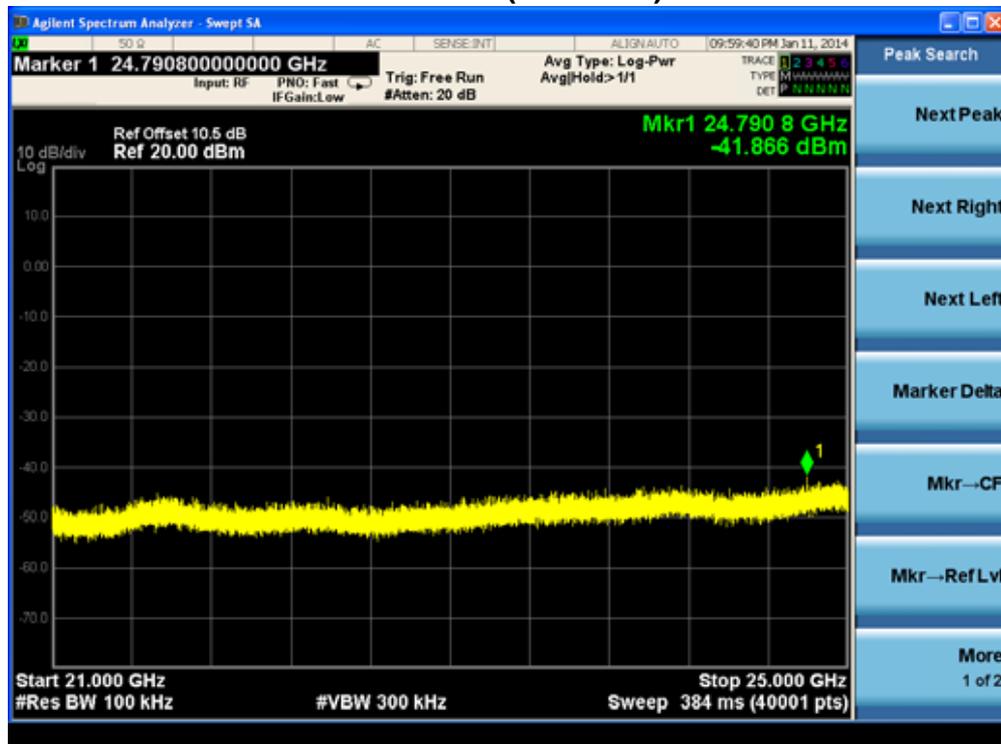
Channel 01 (2412MHz)-5



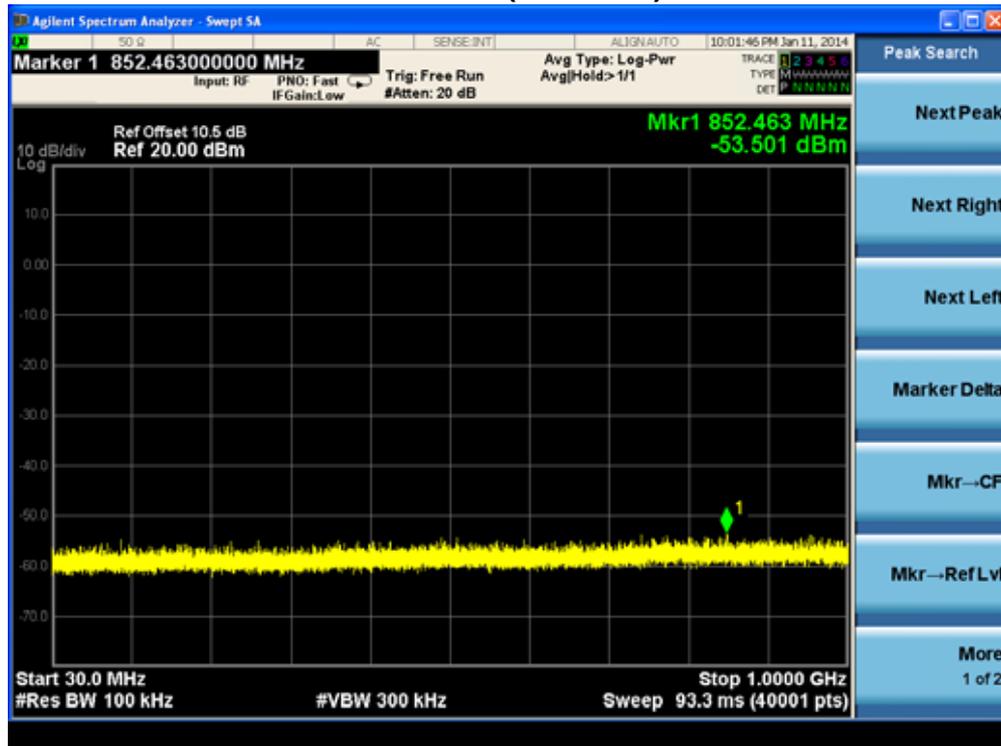
Channel 01 (2412MHz)-6



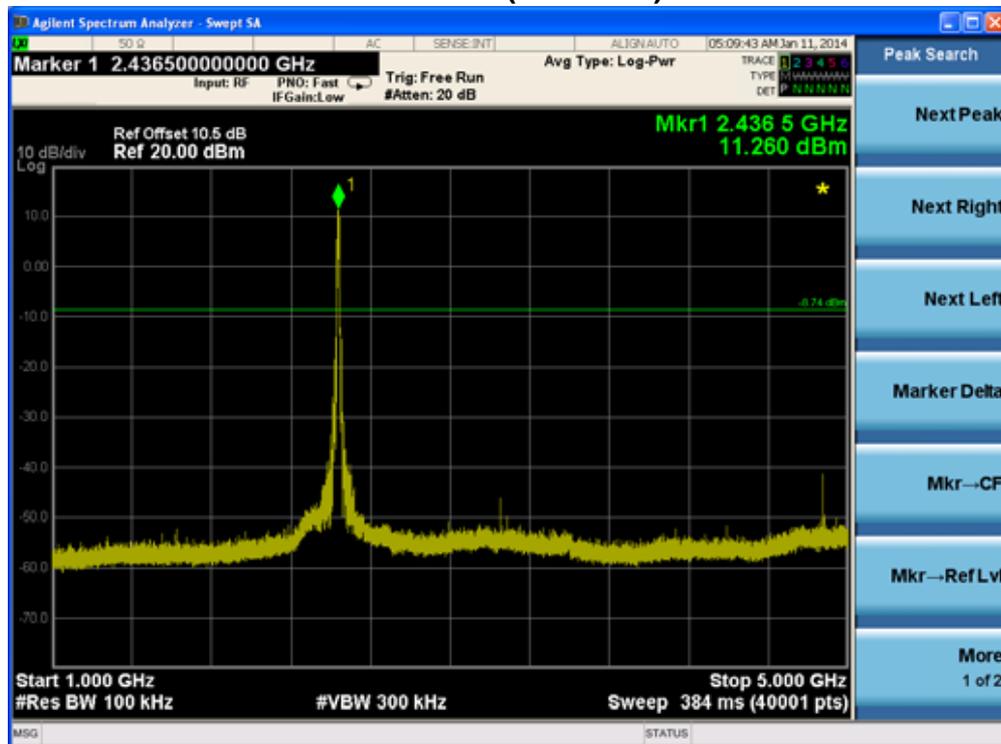
Channel 01 (2412MHz)-7



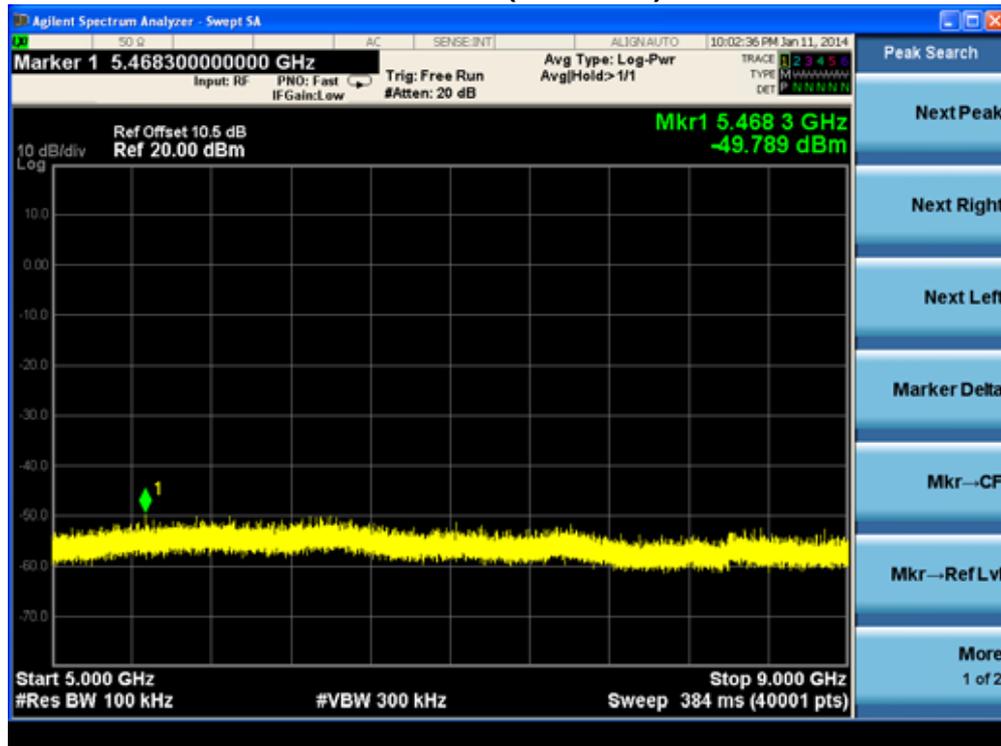
Channel 06 (2437MHz)-1



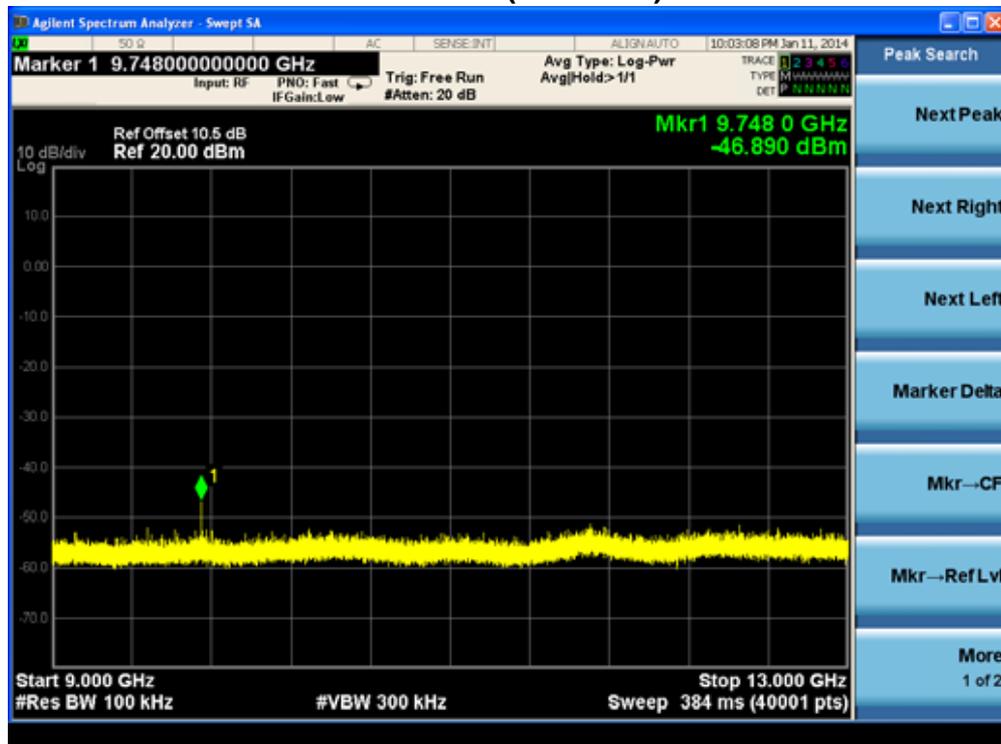
Channel 06 (2437MHz)-2



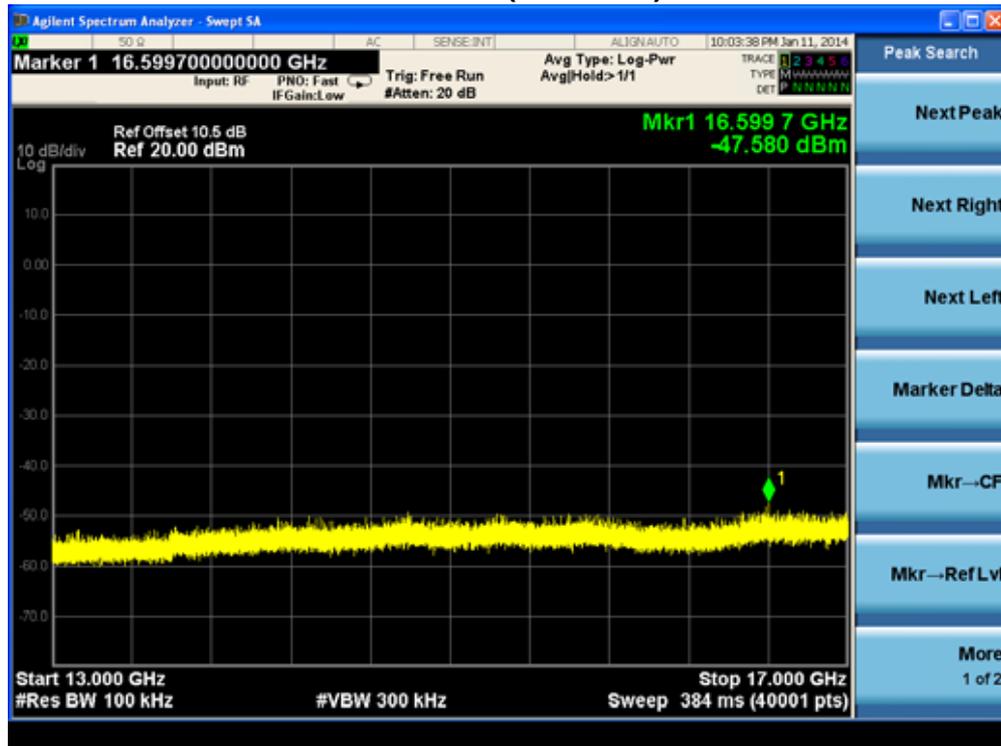
Channel 06 (2437MHz)-3



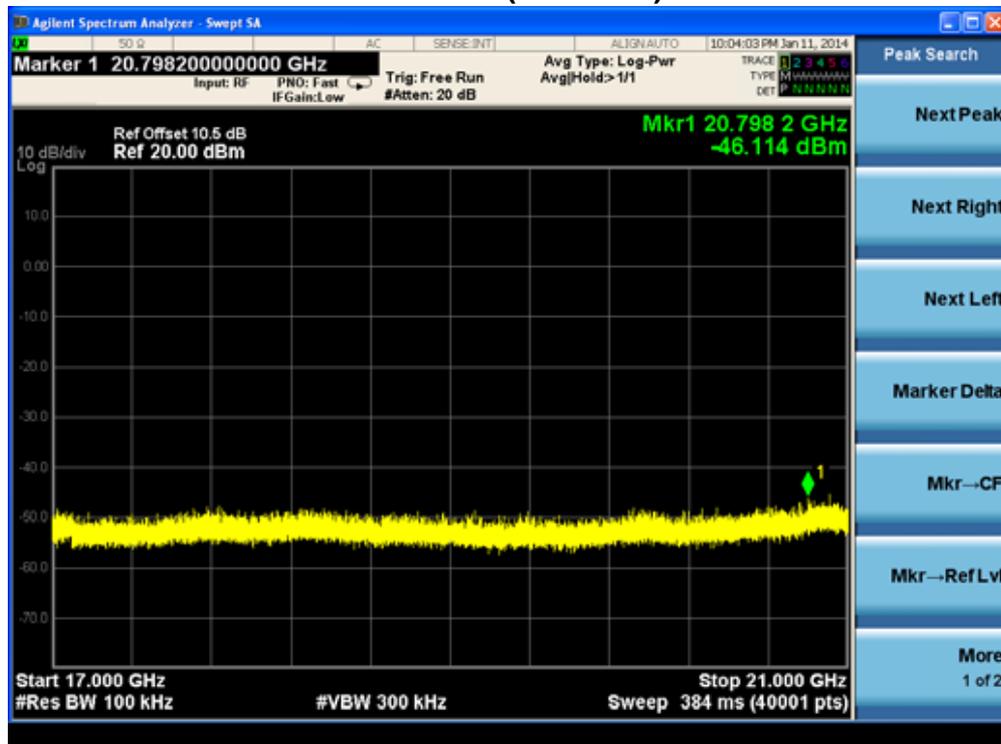
Channel 06 (2437MHz)-4



Channel 06 (2437MHz)-5



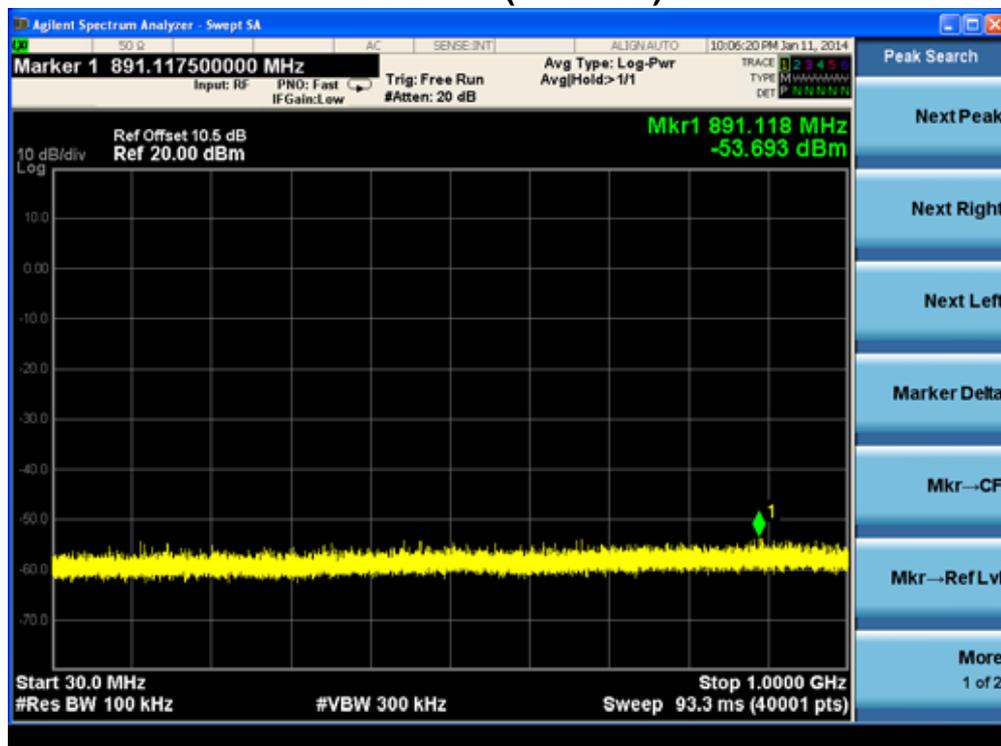
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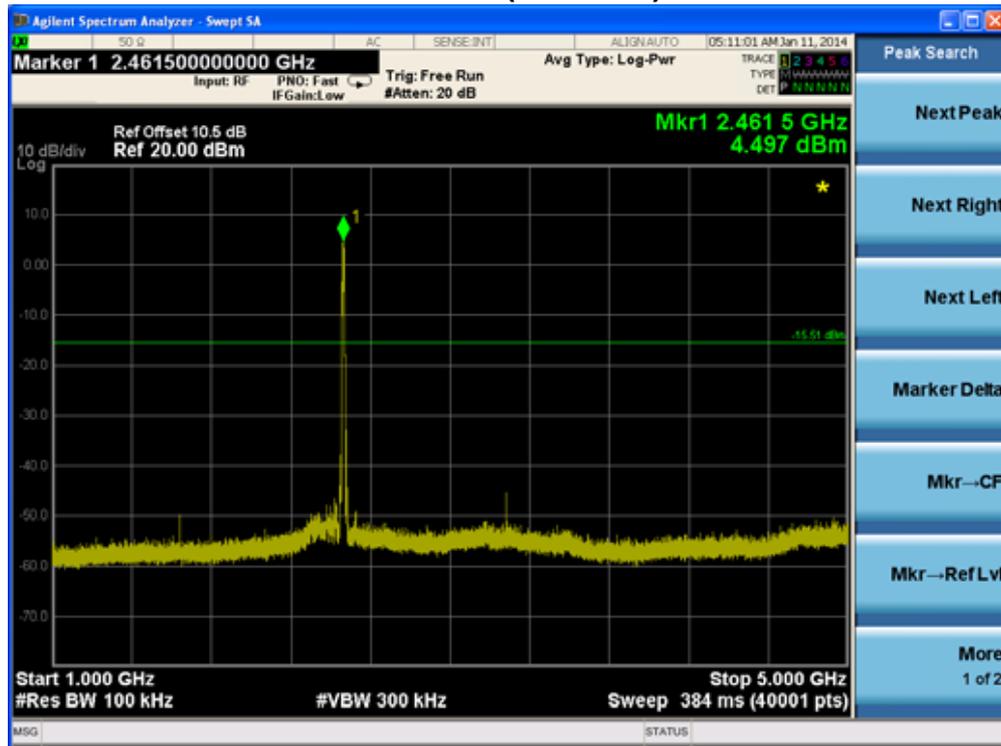
Channel 06 (2437MHz)-7



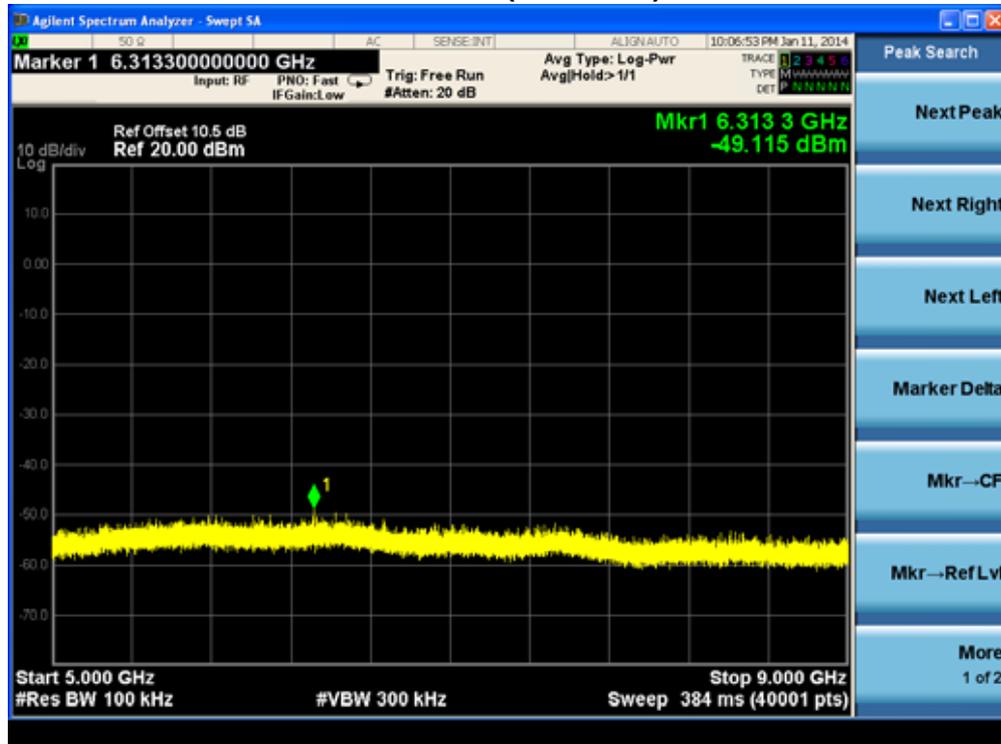
Channel 11 (2462MHz)-1



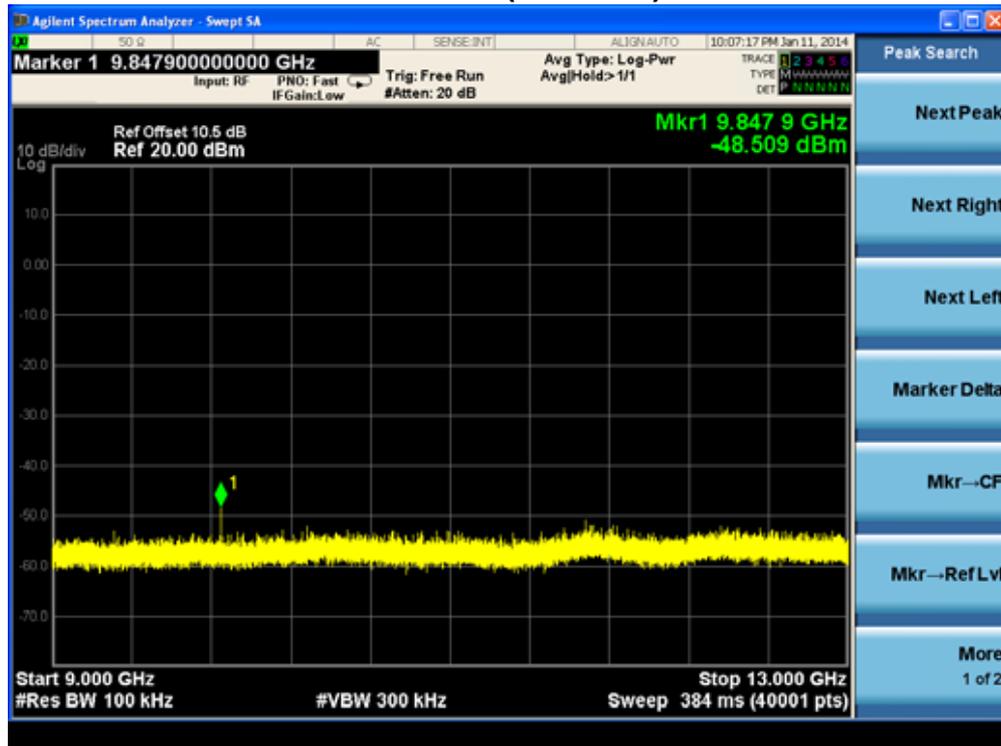
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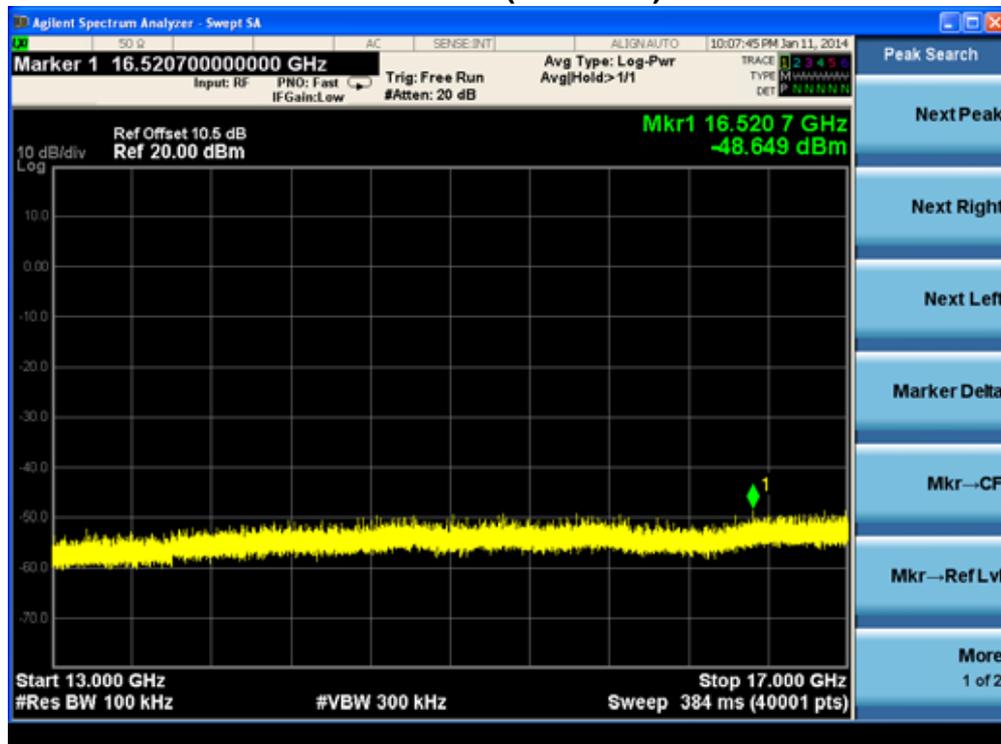
Channel 11 (2462MHz)-3



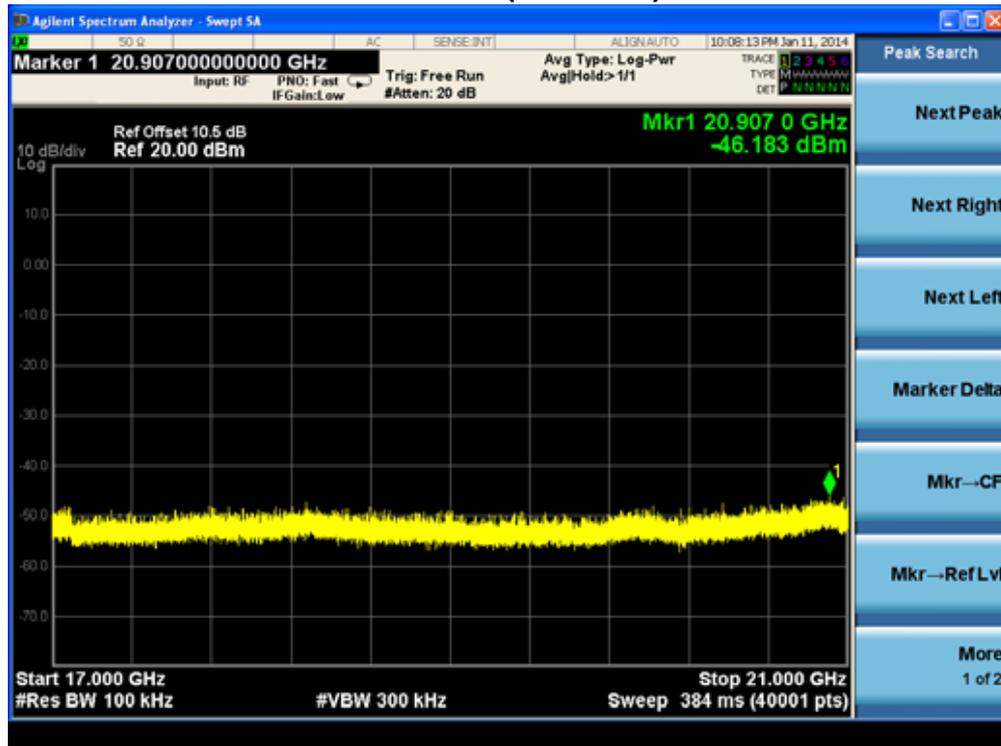
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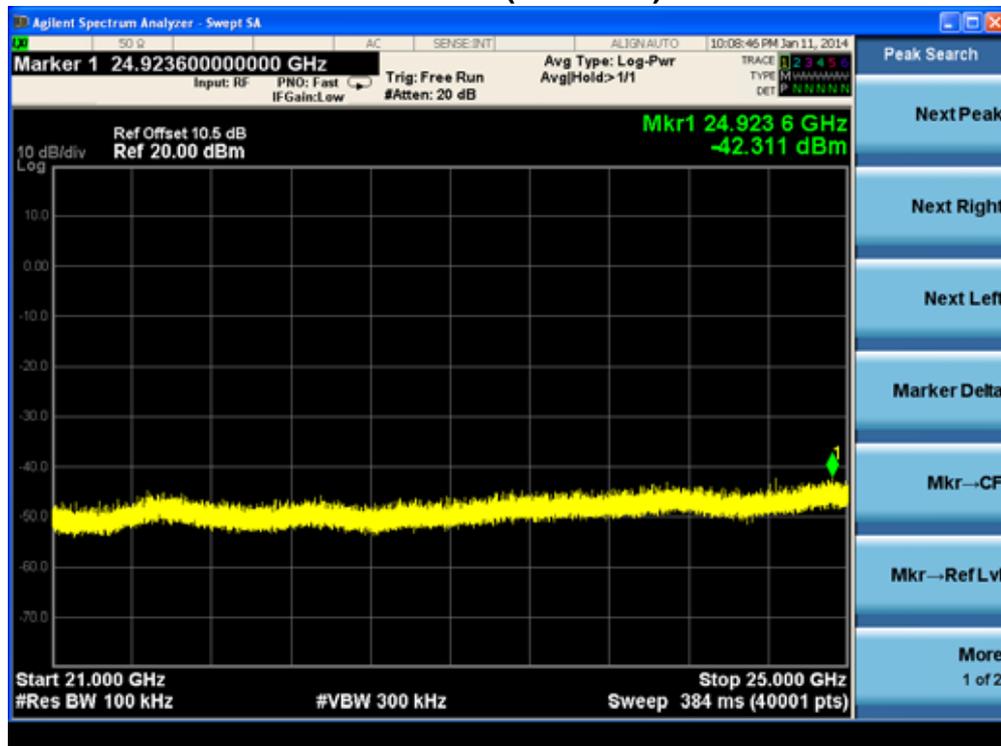
Channel 11 (2462MHz)-5



Channel 11 (2462MHz)-6

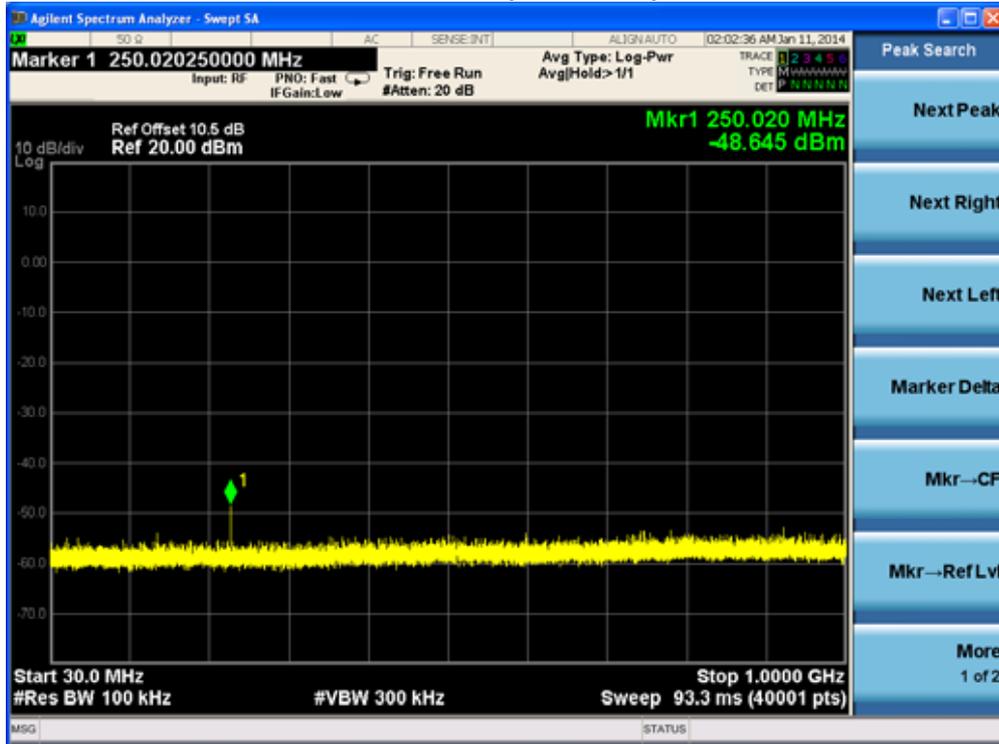


Channel 11 (2462MHz)-7

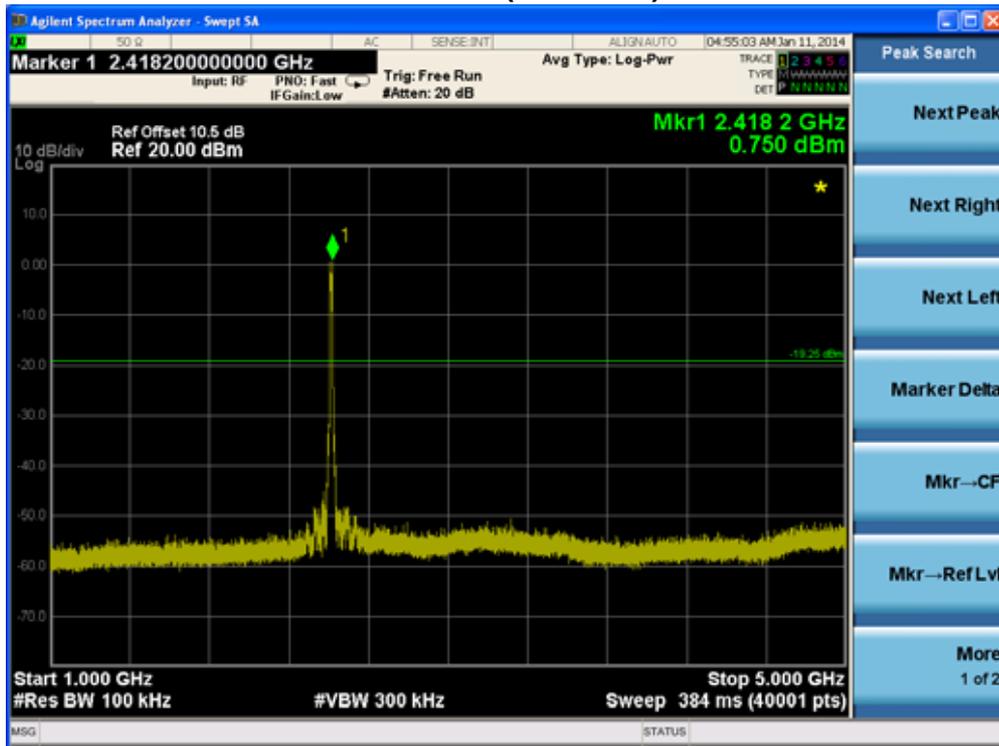


Product	: GPON Terminal
Test Item	: RF Antenna Conducted Spurious
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11g Ant 0

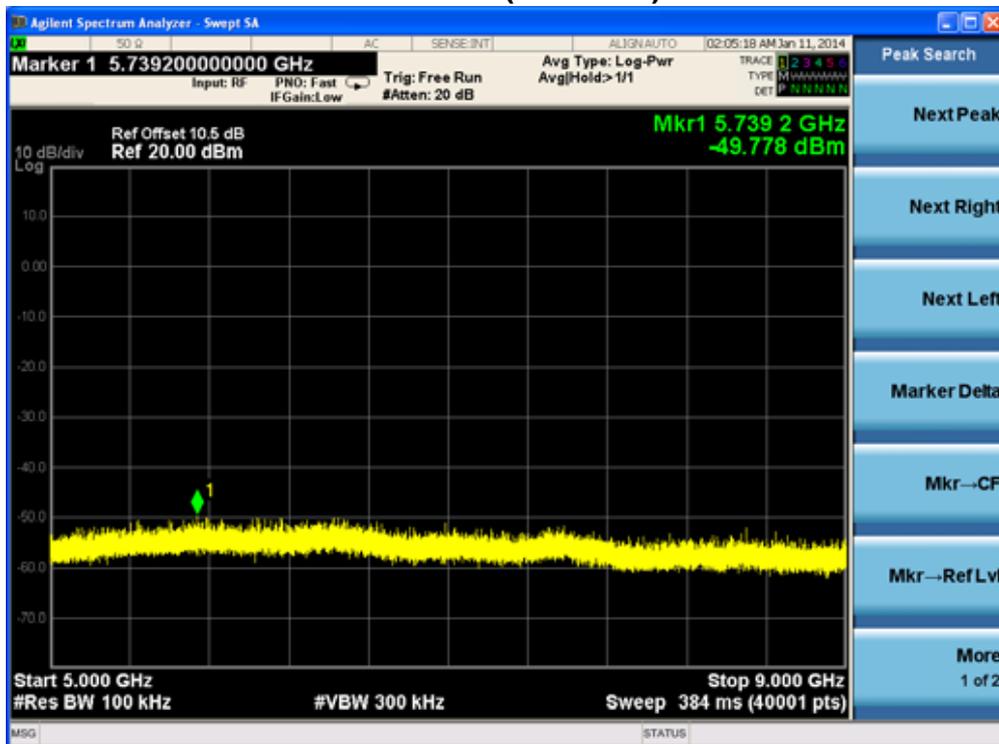
Channel 01 (2412MHz)-1



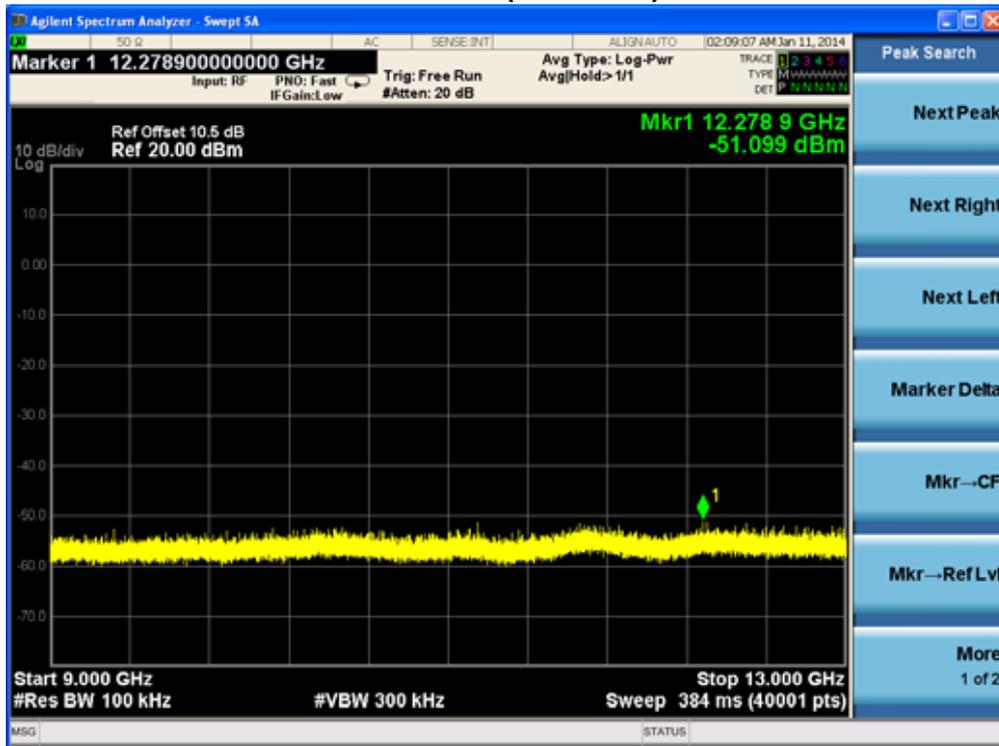
Channel 01 (2412MHz)-2



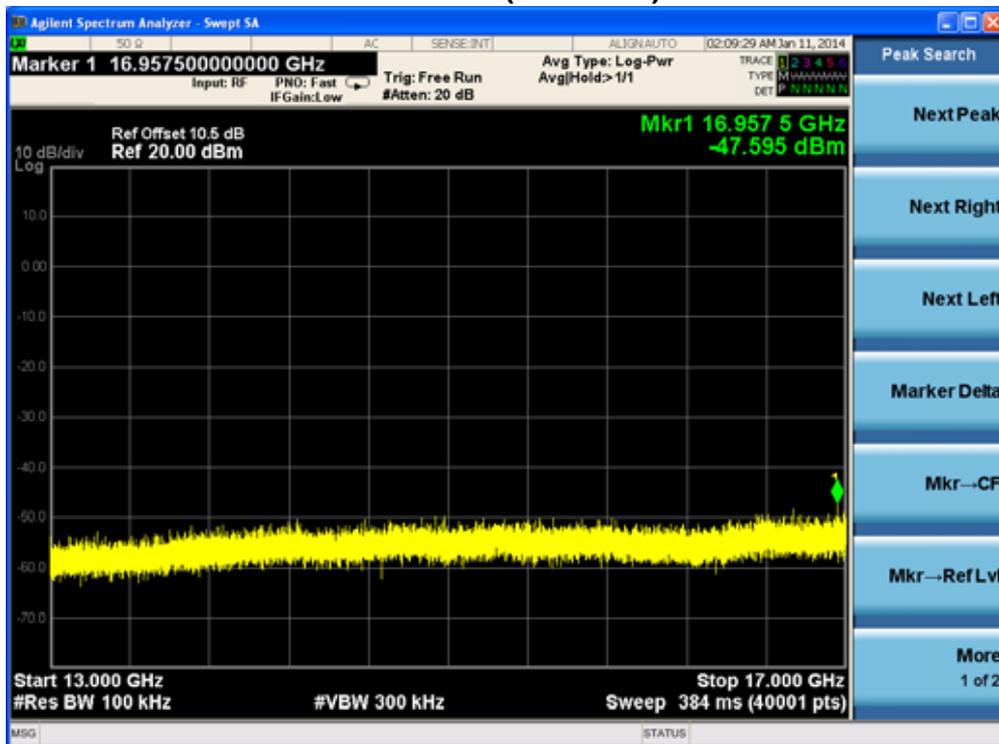
Channel 01 (2412MHz)-3



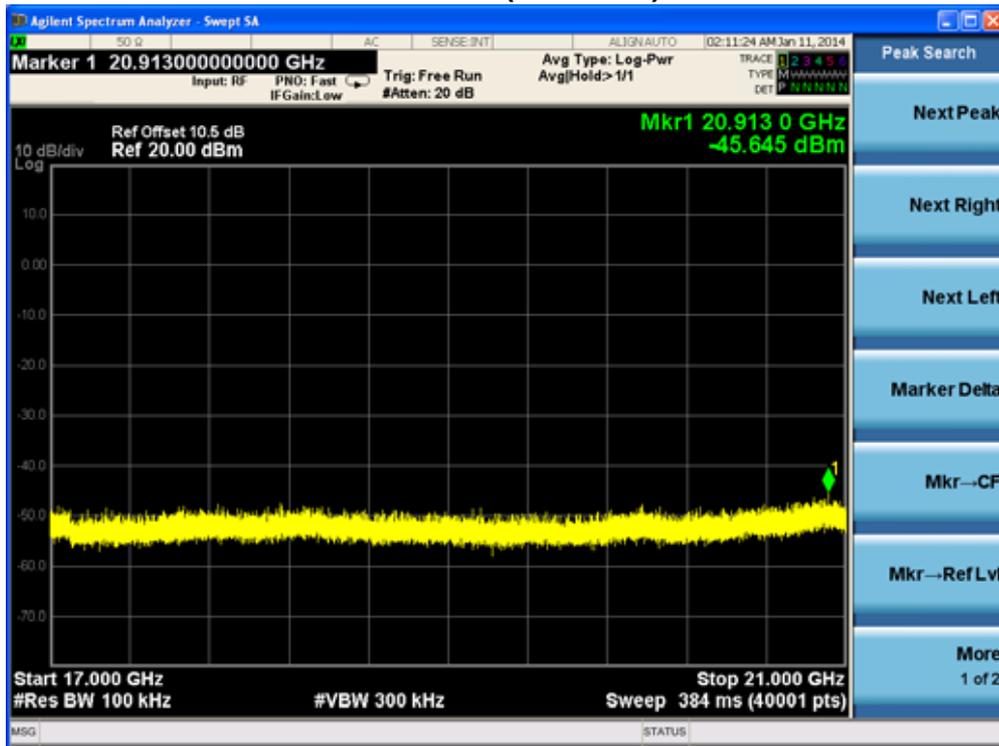
Channel 01 (2412MHz)-4



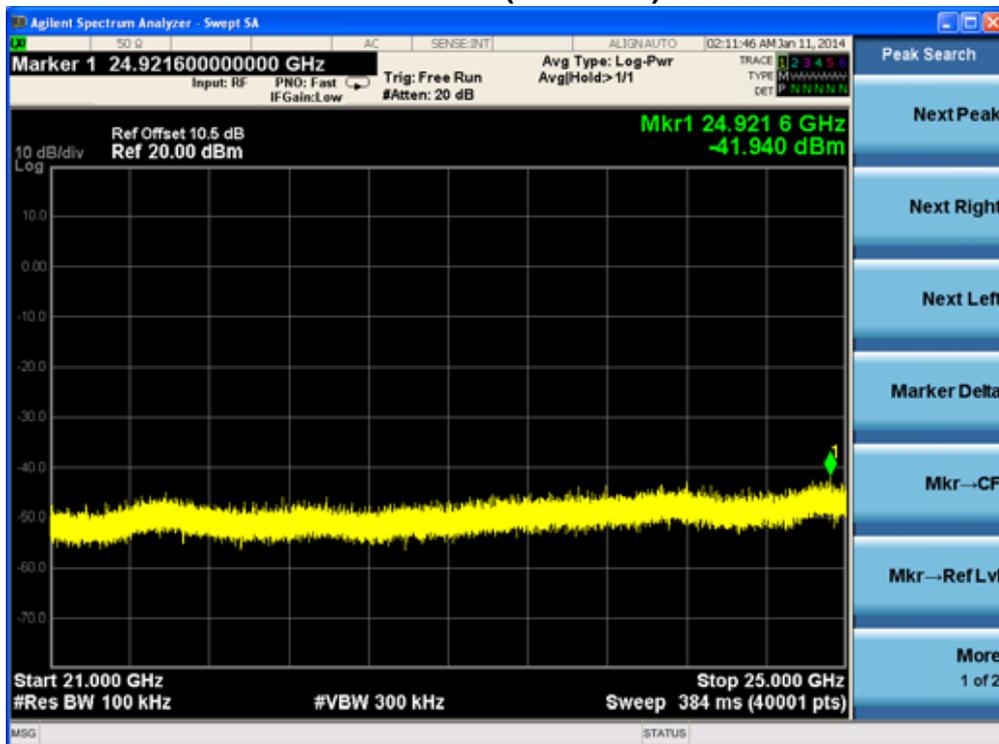
Channel 01 (2412MHz)-5



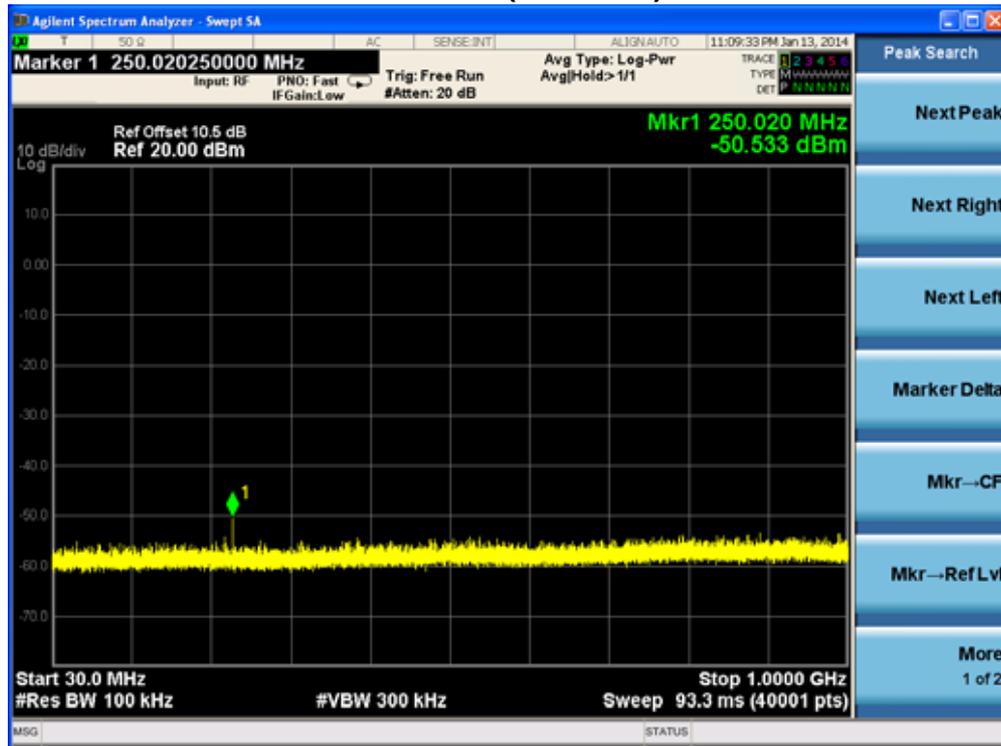
Channel 01 (2412MHz)-6



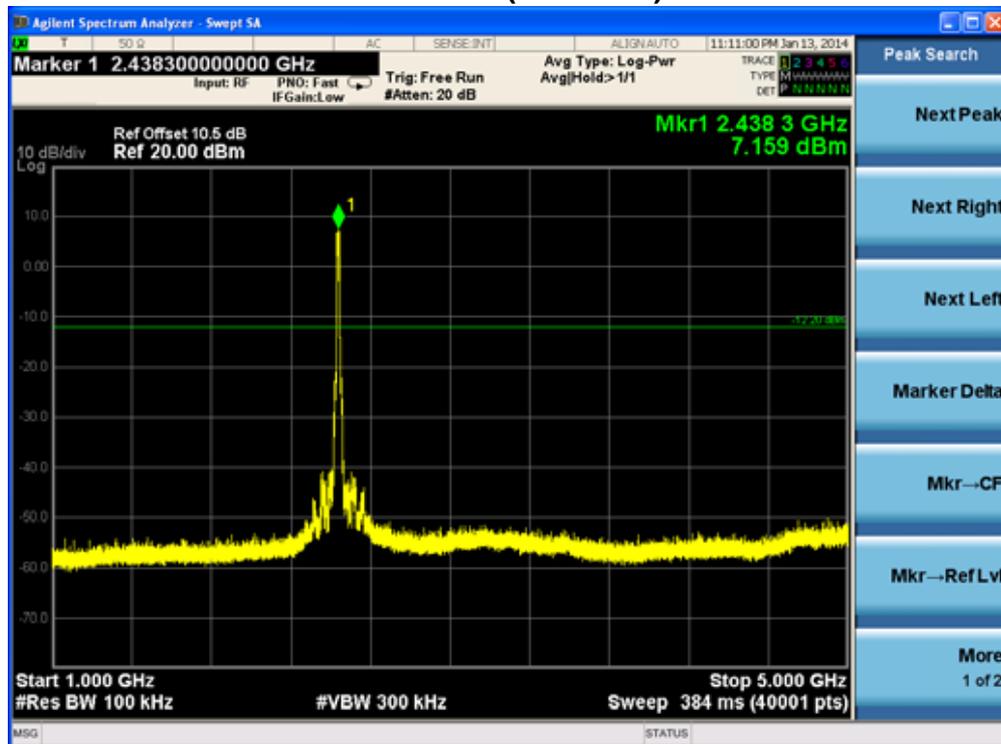
Channel 01 (2412MHz)-7



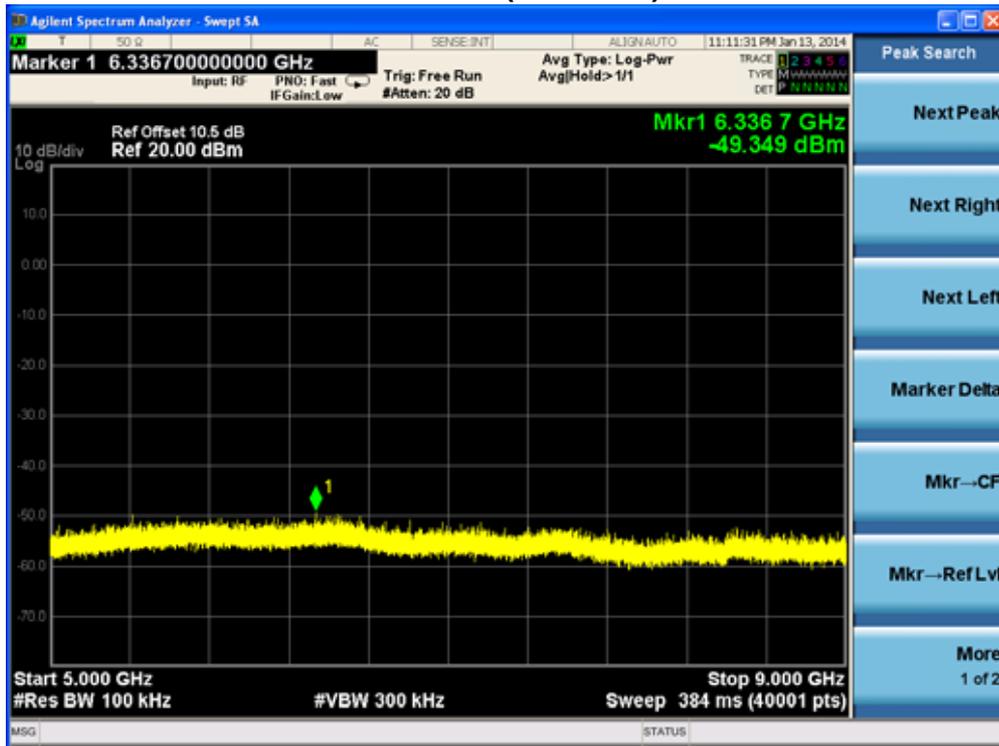
Channel 06 (2437MHz)-1



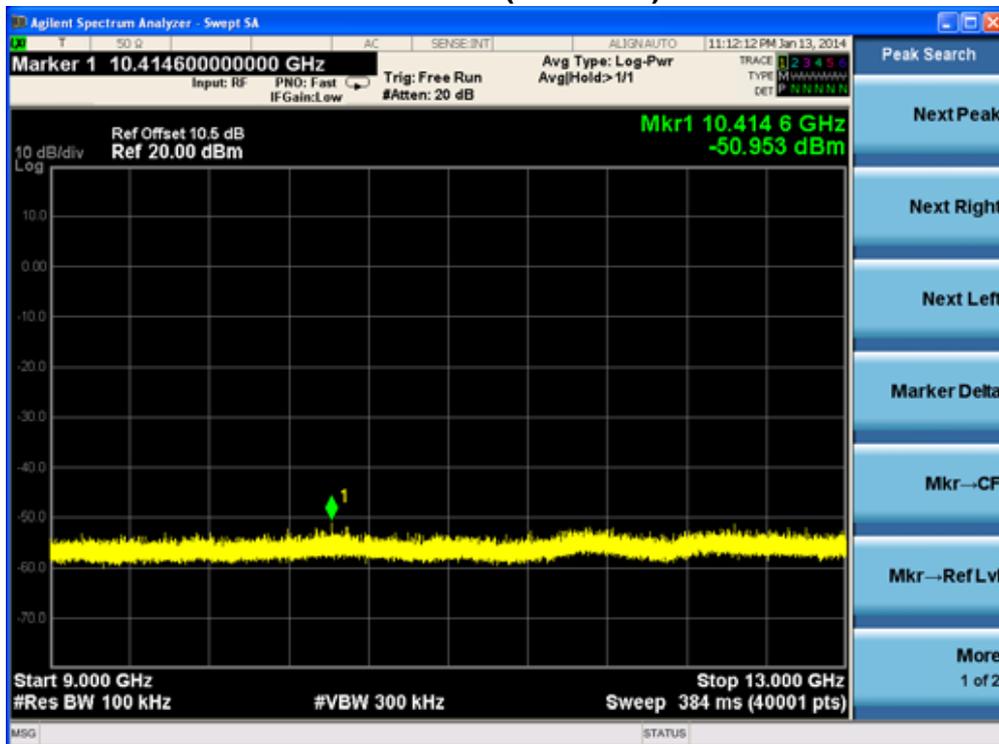
Channel 06 (2437MHz)-2



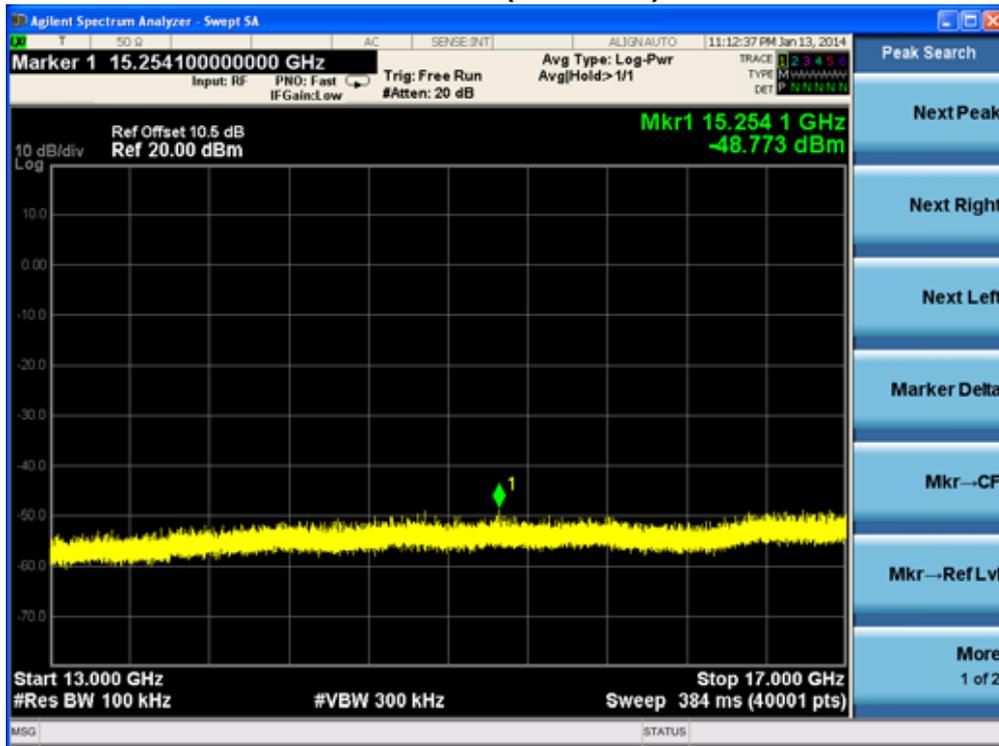
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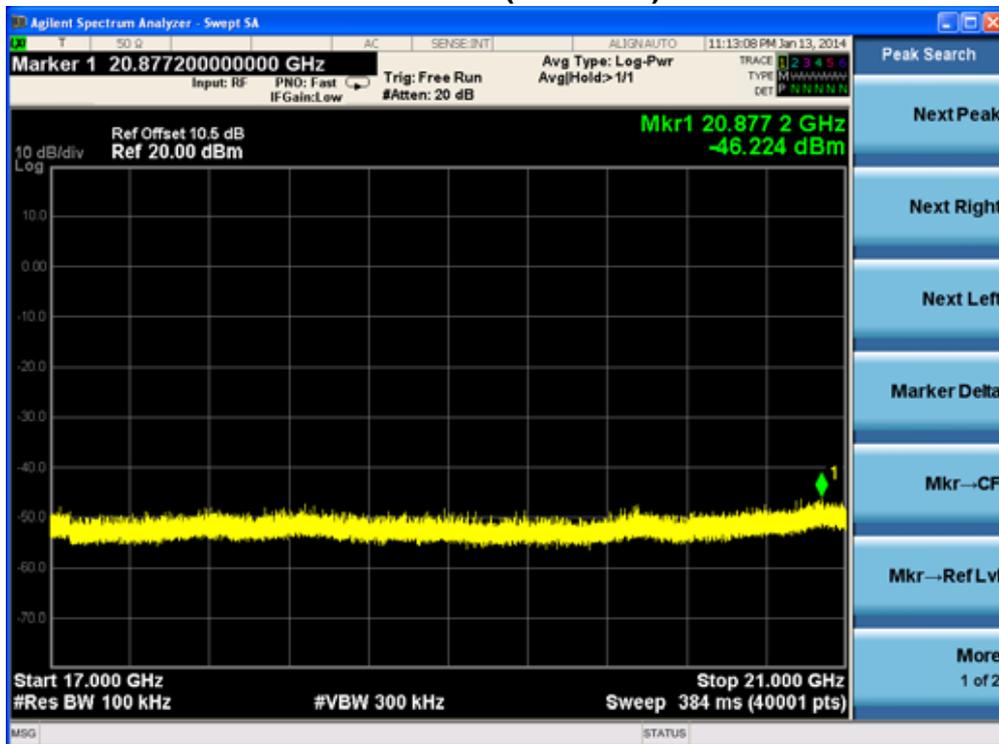
### Channel 06 (2437MHz)-4



Channel 06 (2437MHz)-5



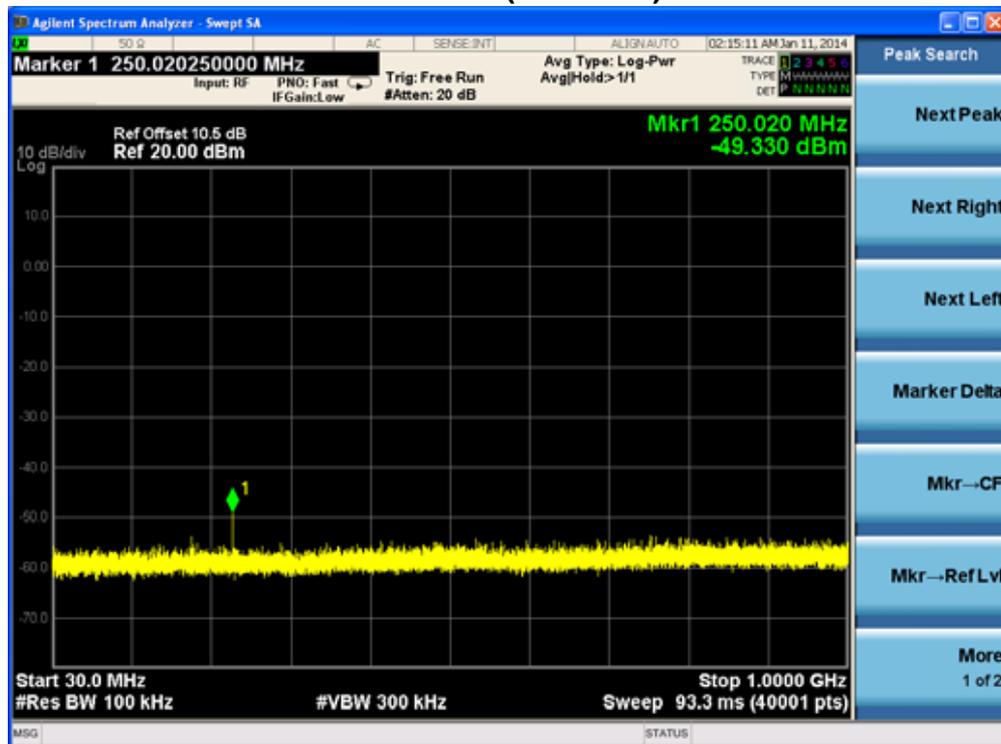
Channel 06 (2437MHz)-6



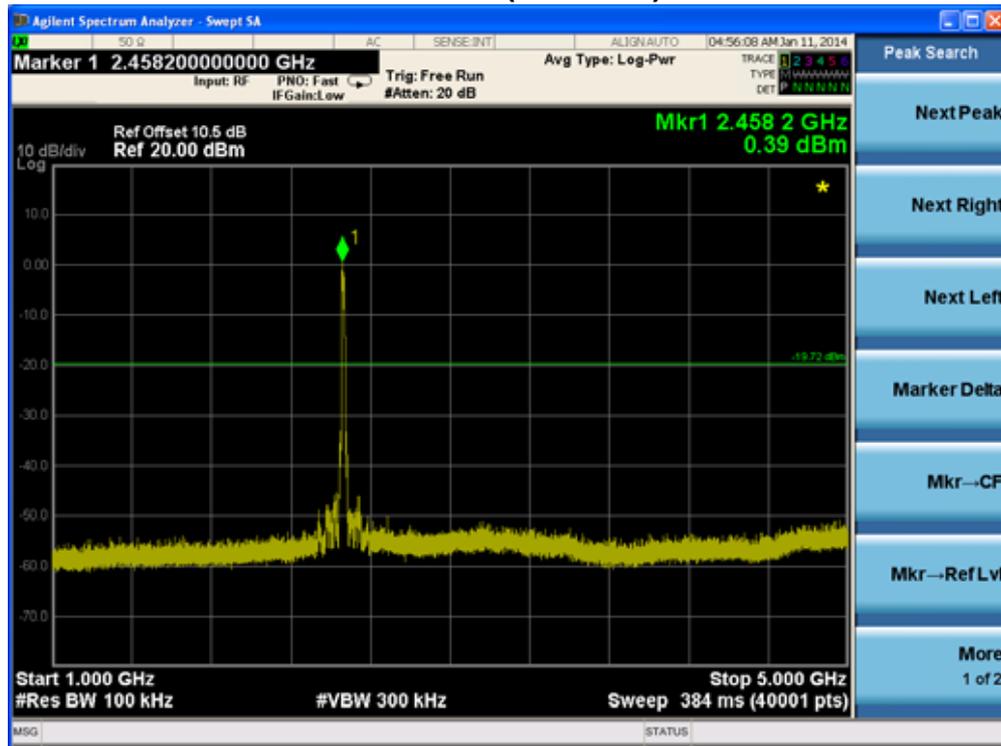
Channel 06 (2437MHz)-7



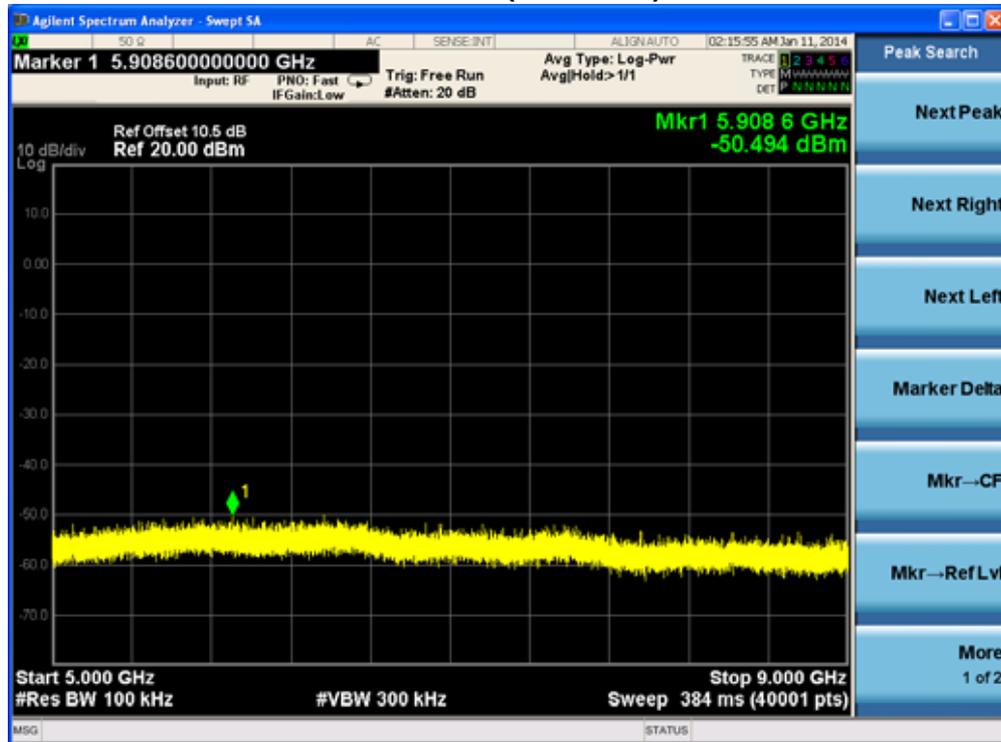
Channel 11 (2462MHz)-1



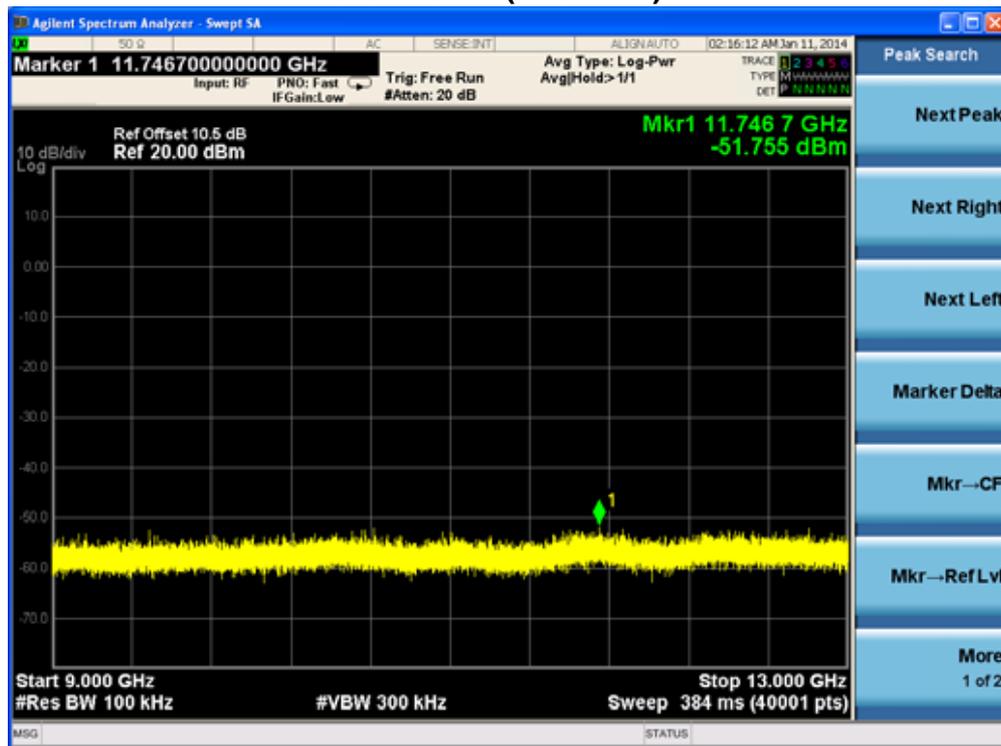
Channel 11 (2462MHz)-2



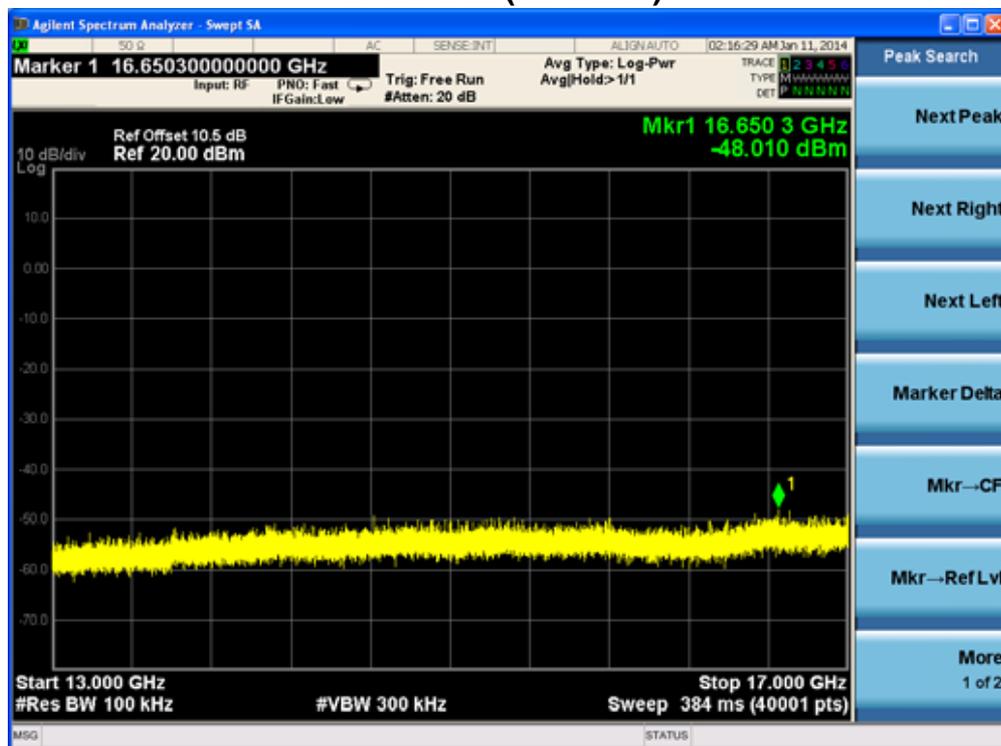
Channel 11 (2462MHz)-3



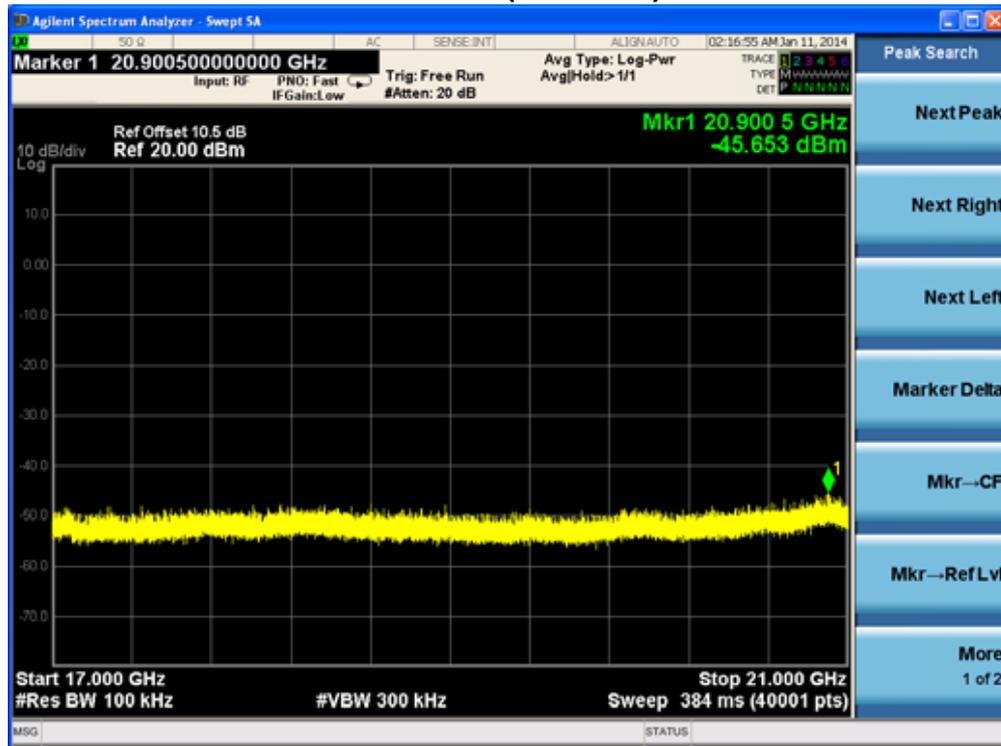
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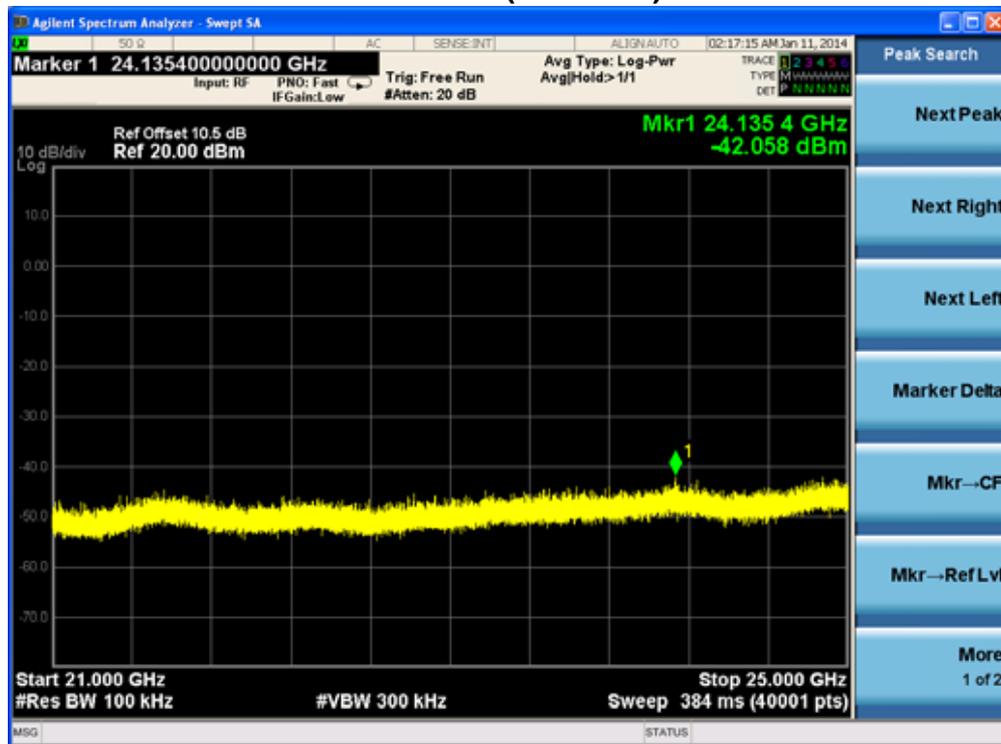
### Channel 11 (2462MHz)-5



Channel 11 (2462MHz)-6

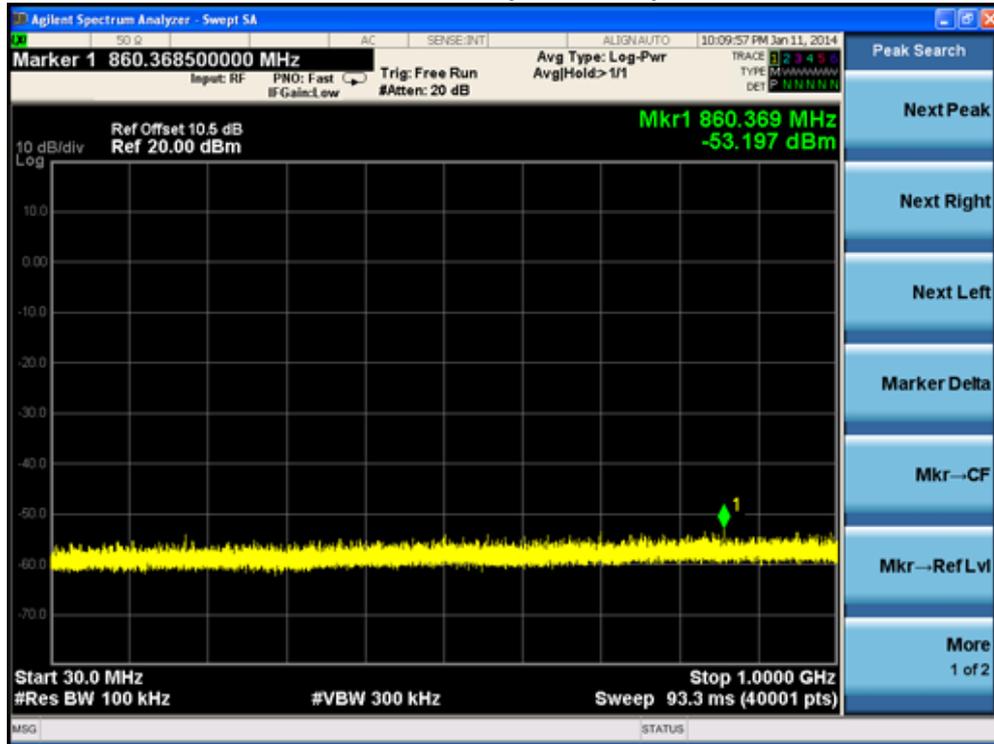


Channel 11 (2462MHz)-7

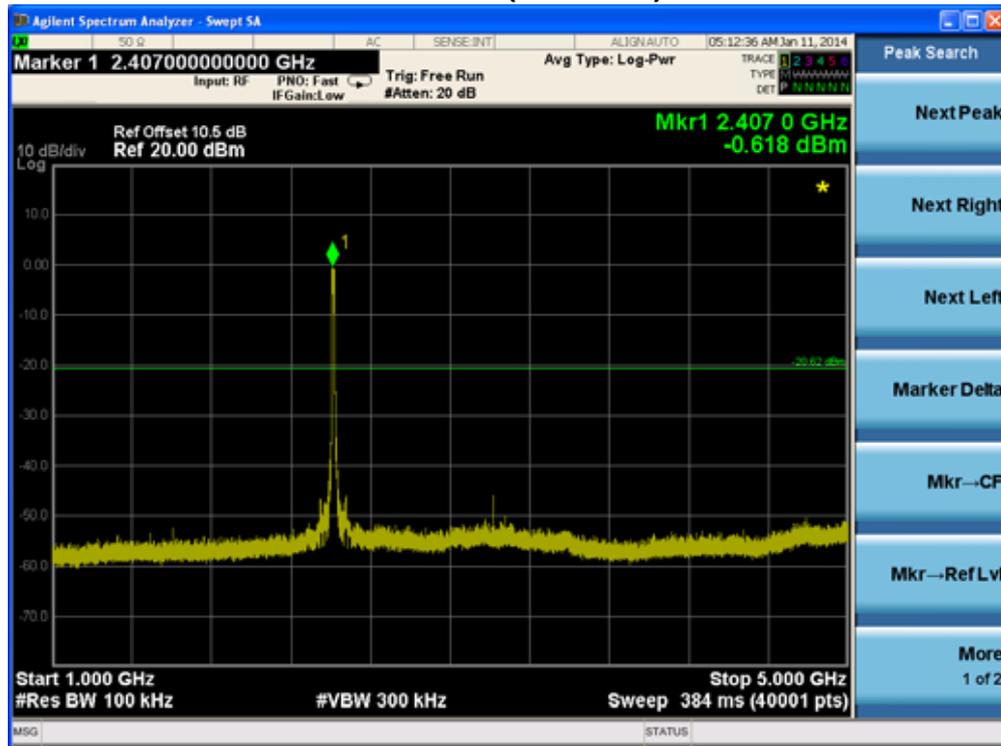


Product	: GPON Terminal
Test Item	: RF Antenna Conducted Spurious
Test Site	: TR-8
Test Mode	: Mode 2: Transmit by 802.11g Ant 1

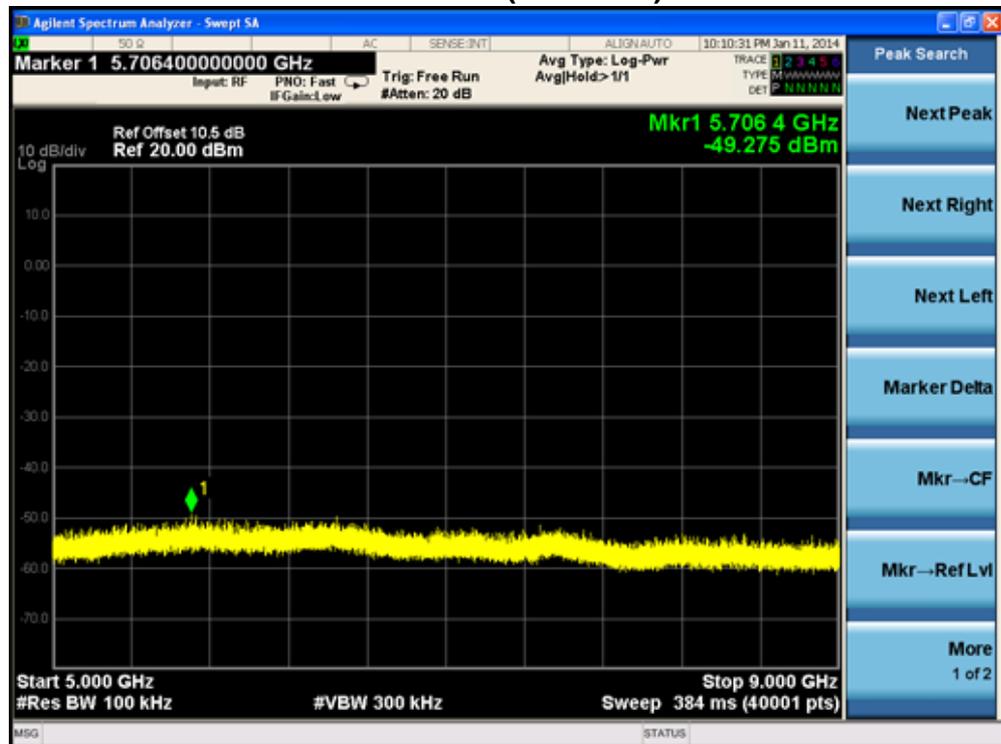
Channel 01 (2412MHz)-1



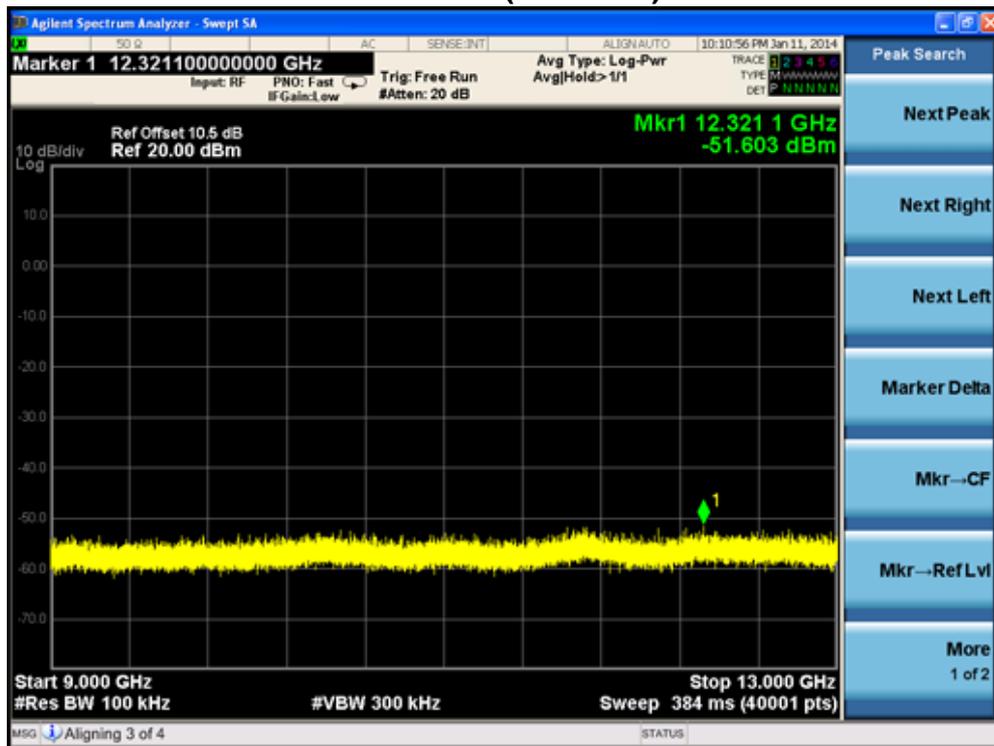
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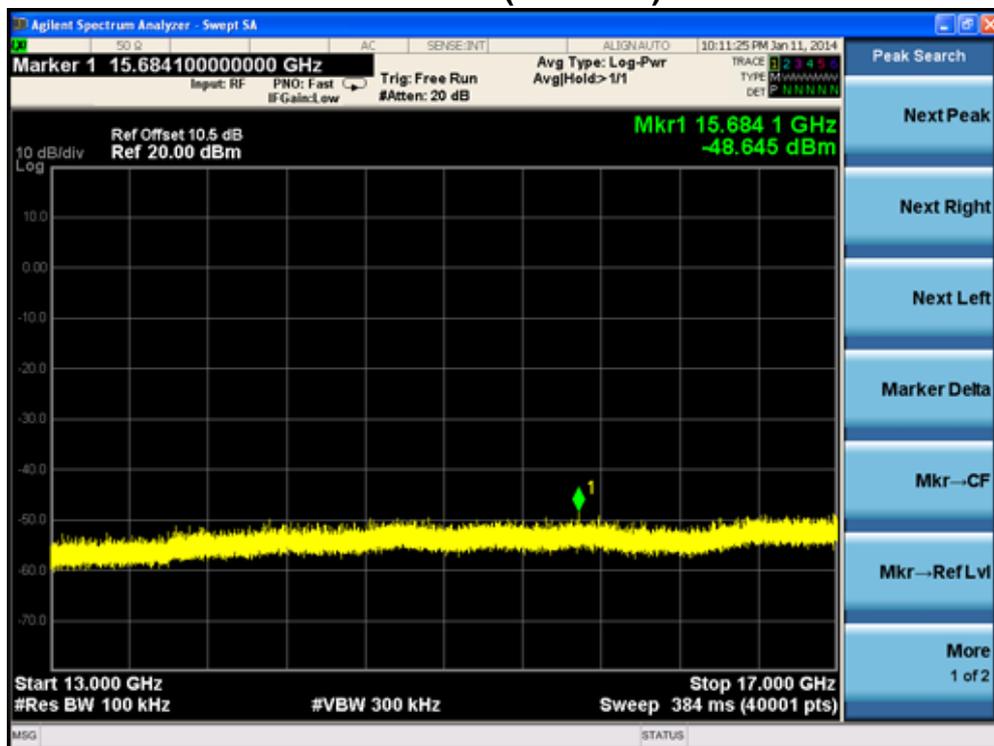
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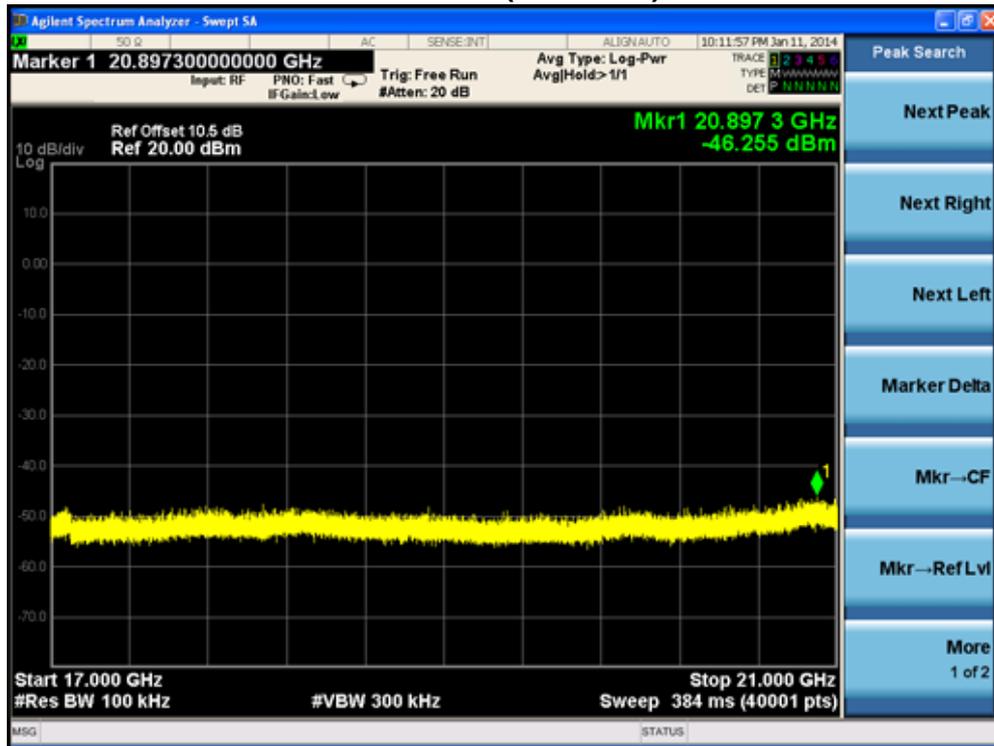
Channel 01 (2412MHz)-4



Channel 01 (2412MHz)-5



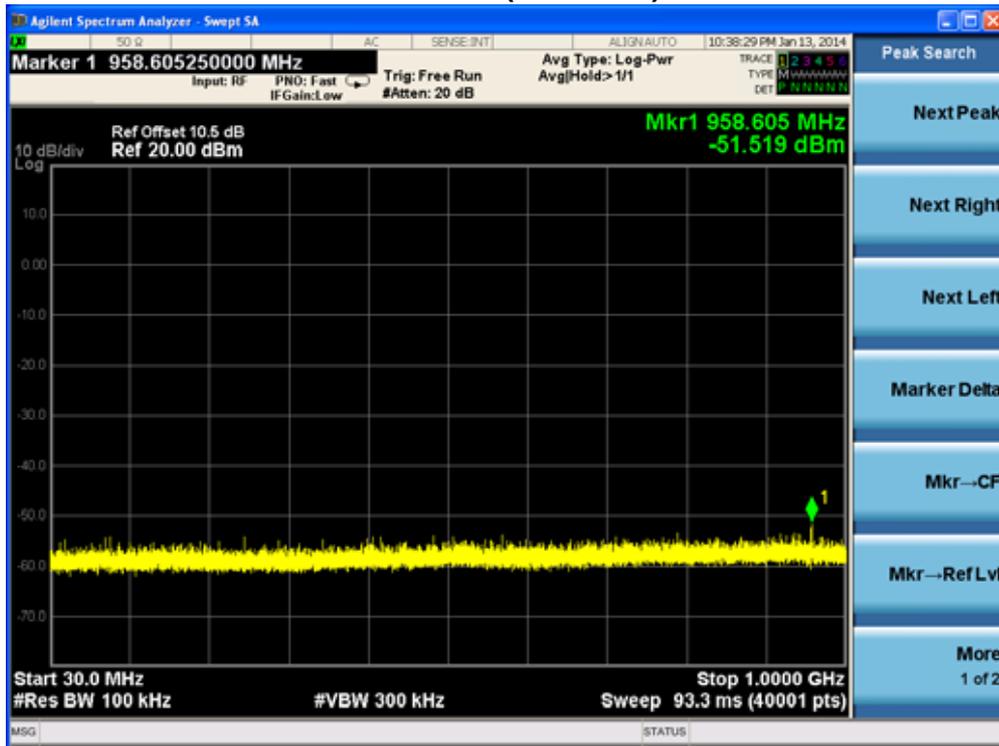
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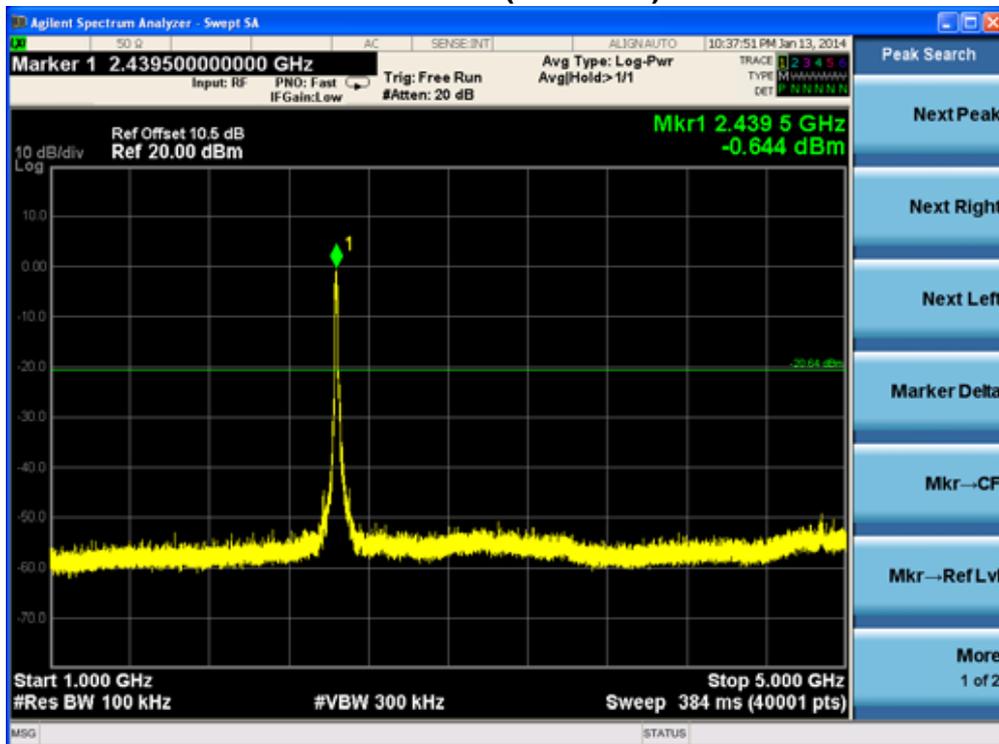
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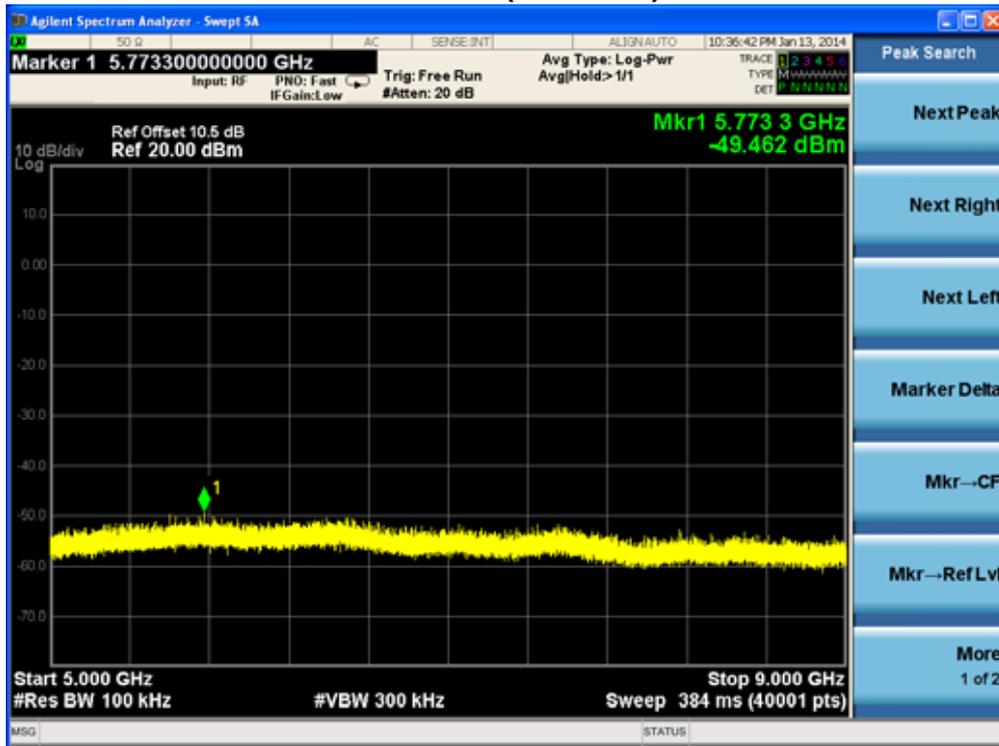
Channel 06 (2437MHz)-1



Channel 06 (2437MHz)-2



Channel 06 (2437MHz)-3



Channel 06 (2437MHz)-4

