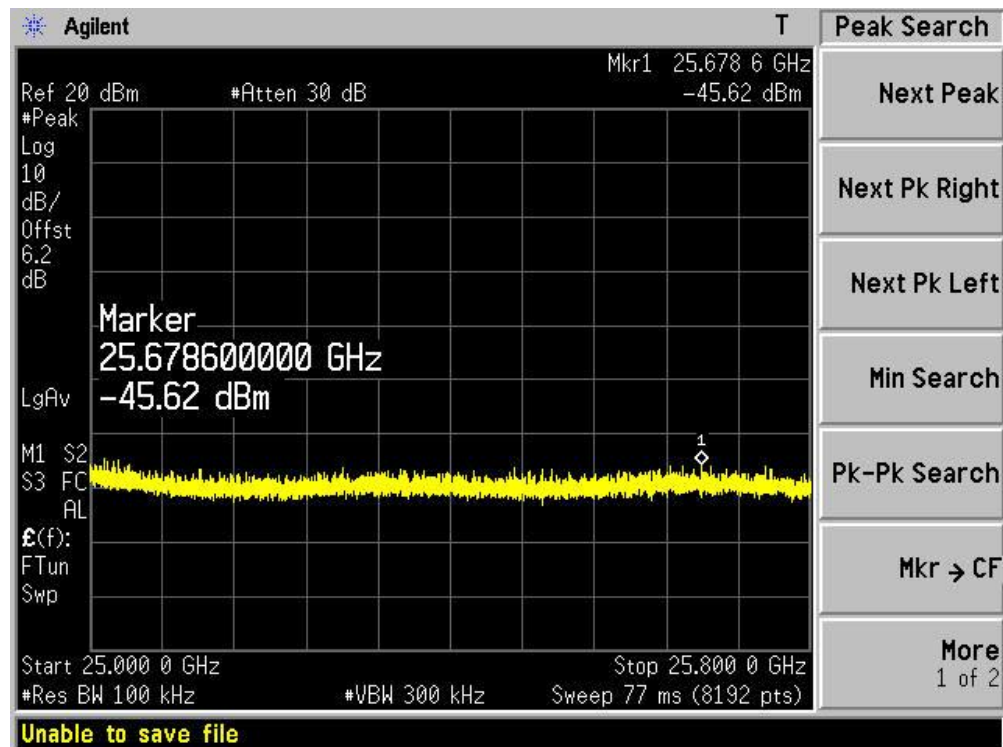
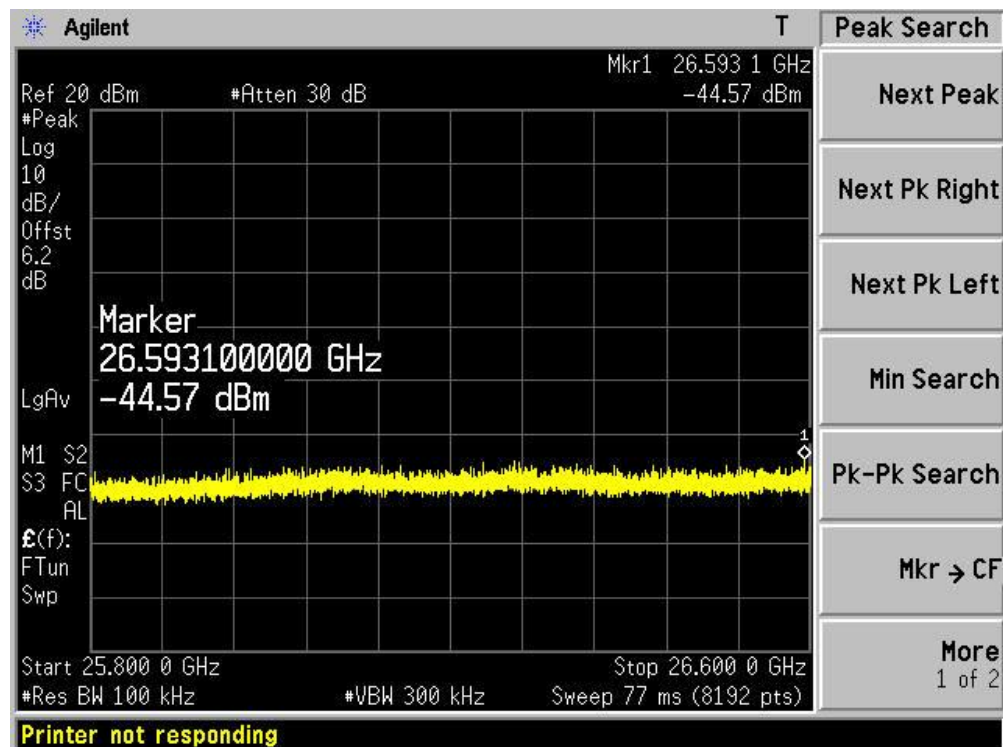


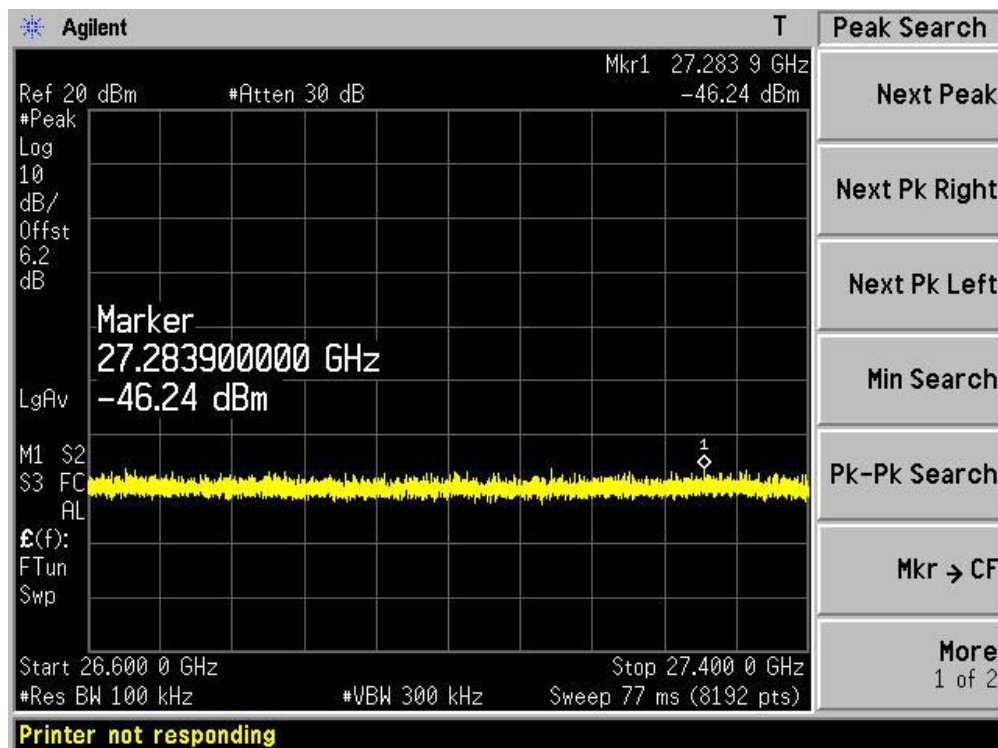
Channel 151 (5755MHz)-8



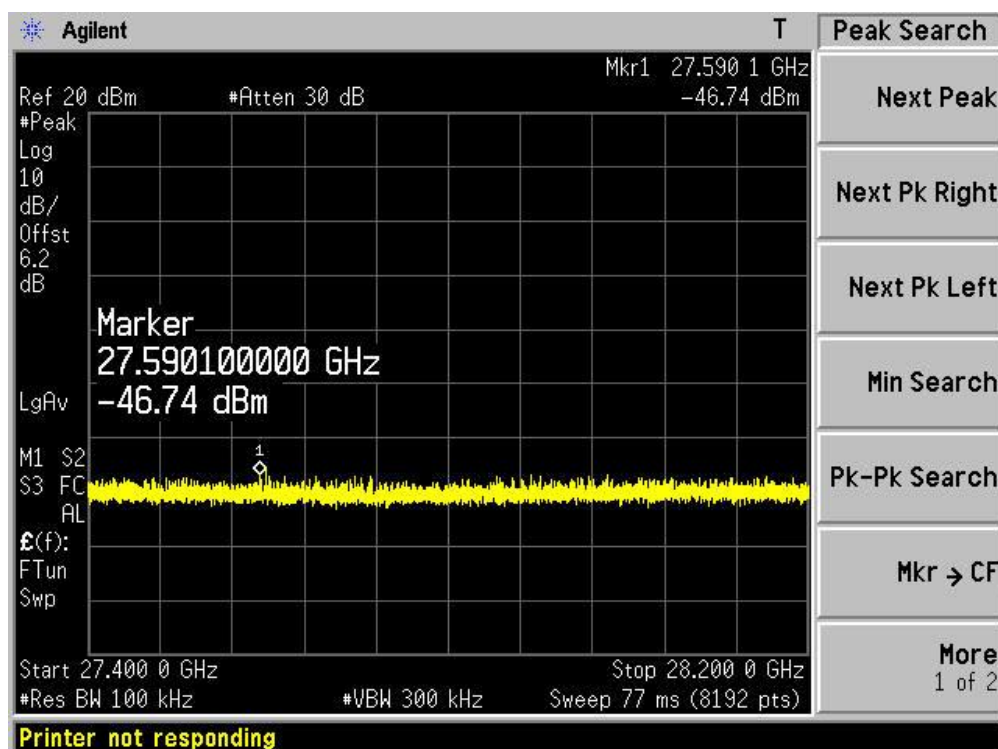
Channel 151 (5755MHz)-9



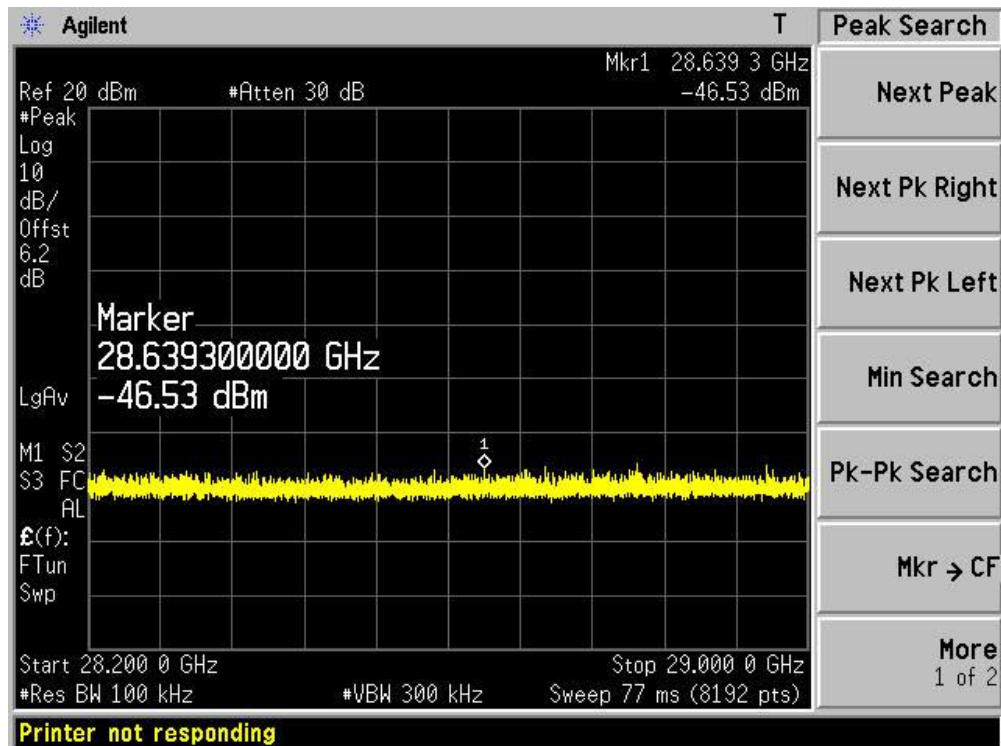
Channel 151 (5755MHz)-10



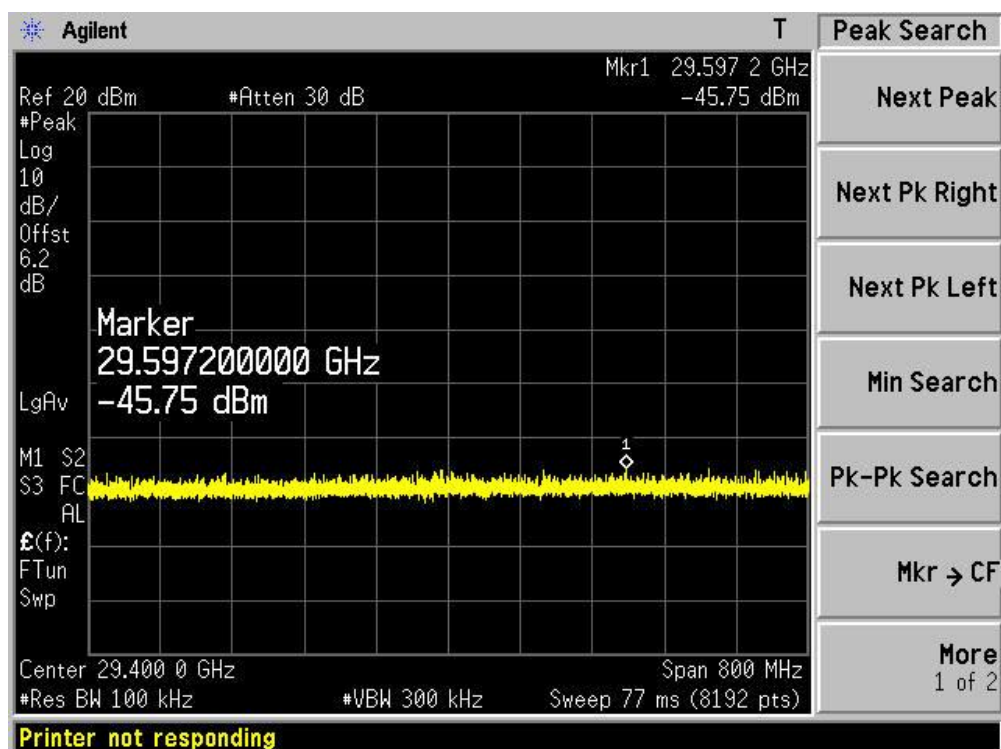
Channel 151 (5755MHz)-11



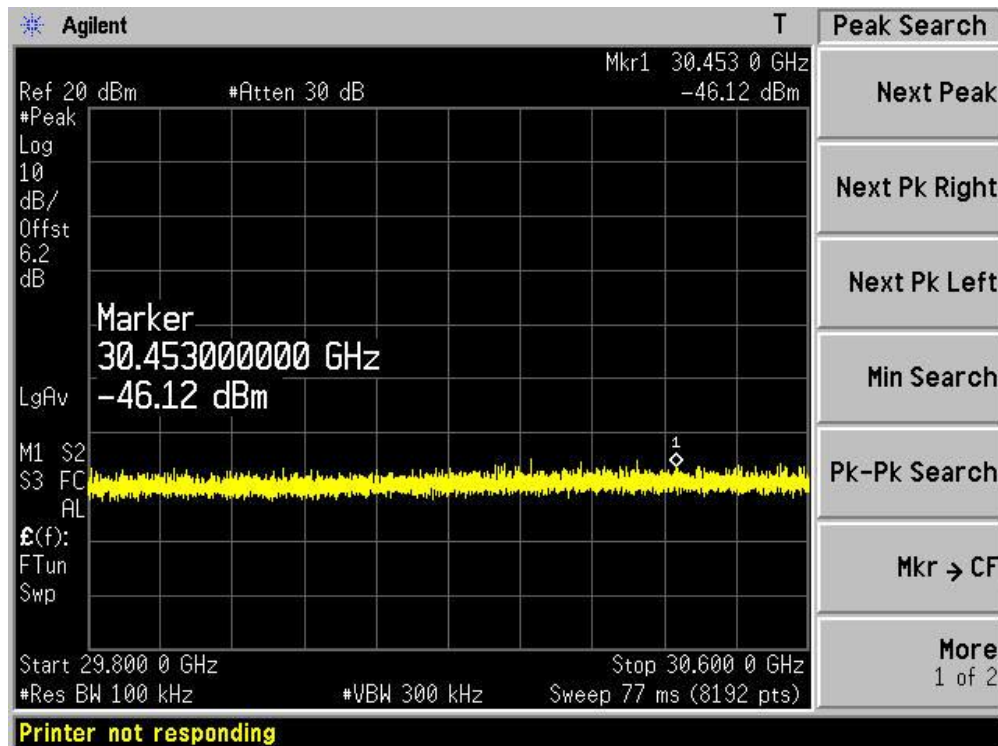
Channel 151 (5755MHz)-12



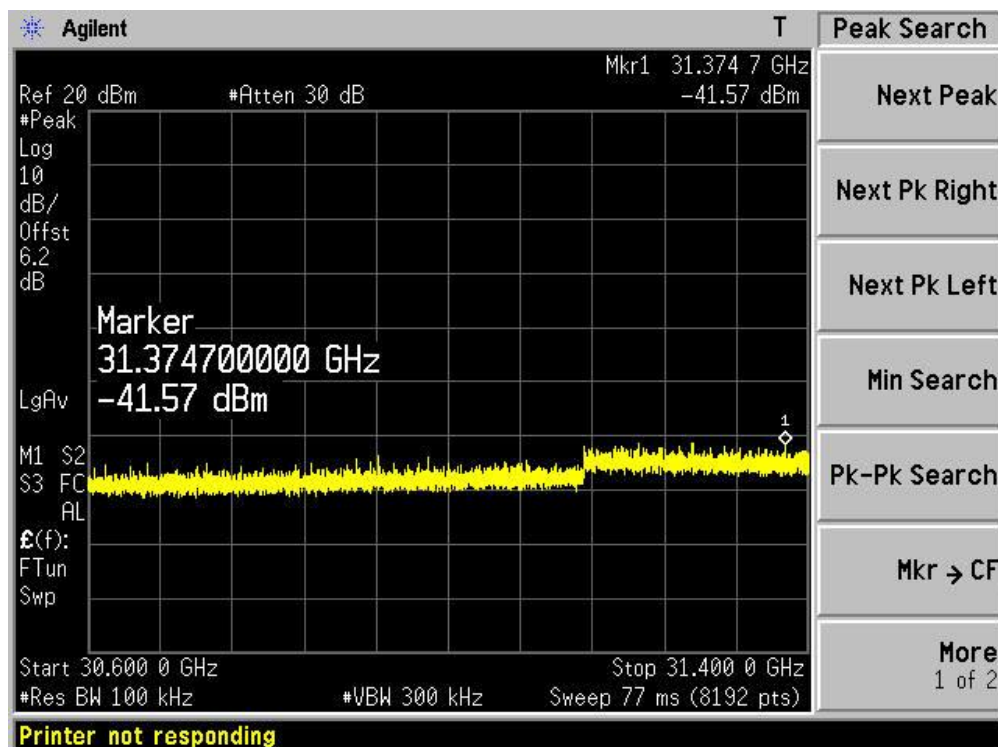
Channel 151 (5755MHz)-13



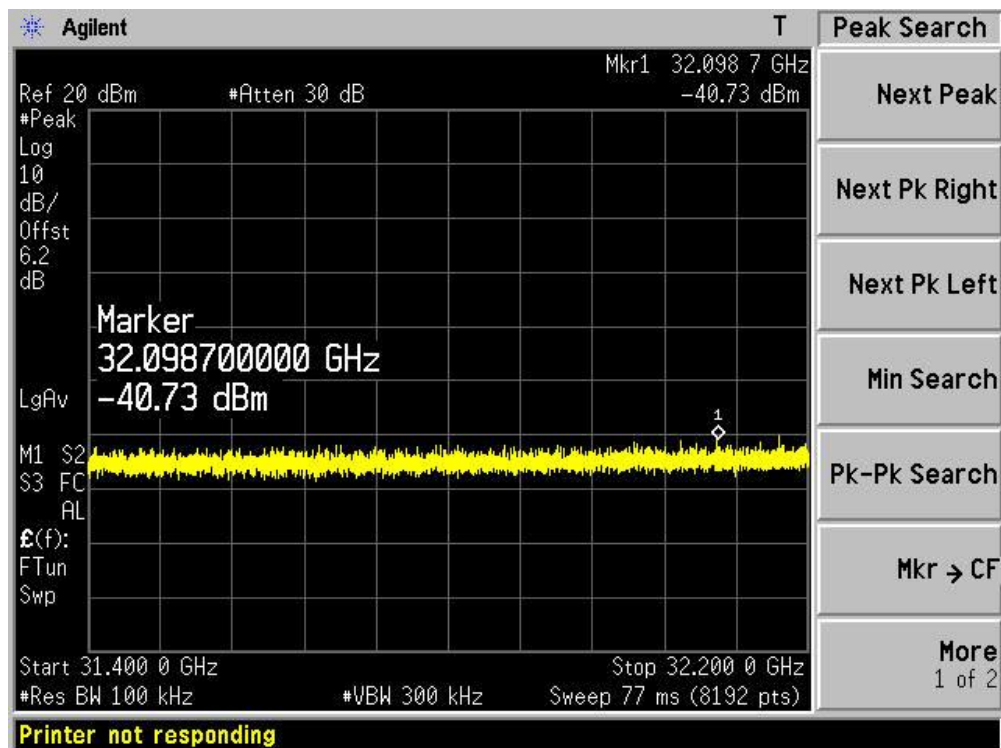
Channel 151 (5755MHz)-14



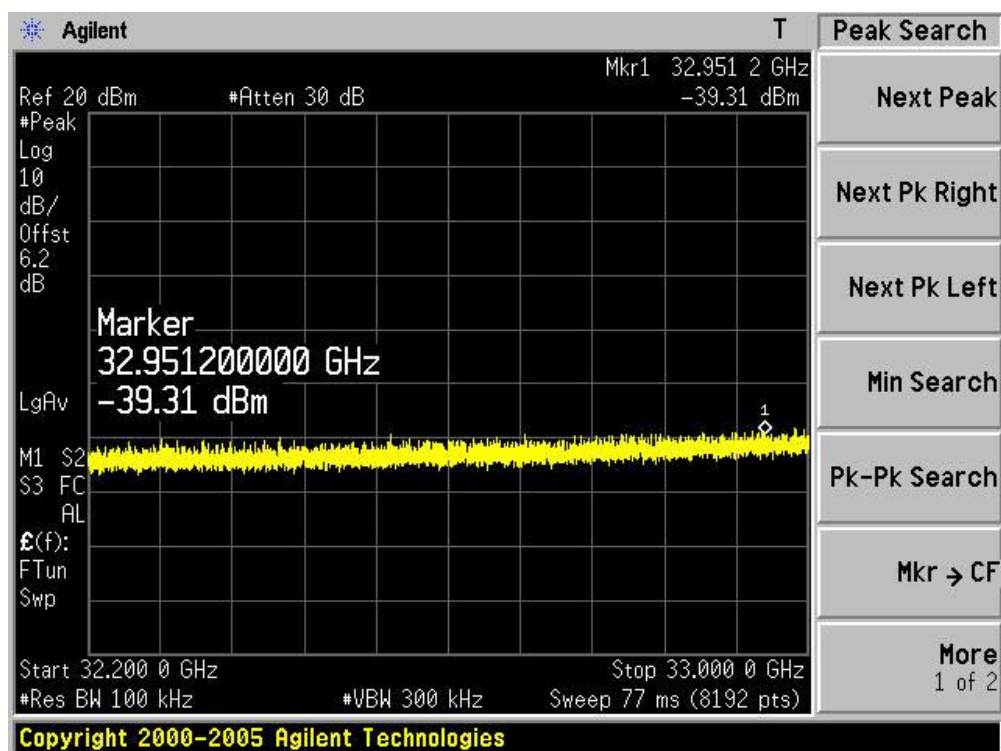
Channel 151 (5755MHz)-15



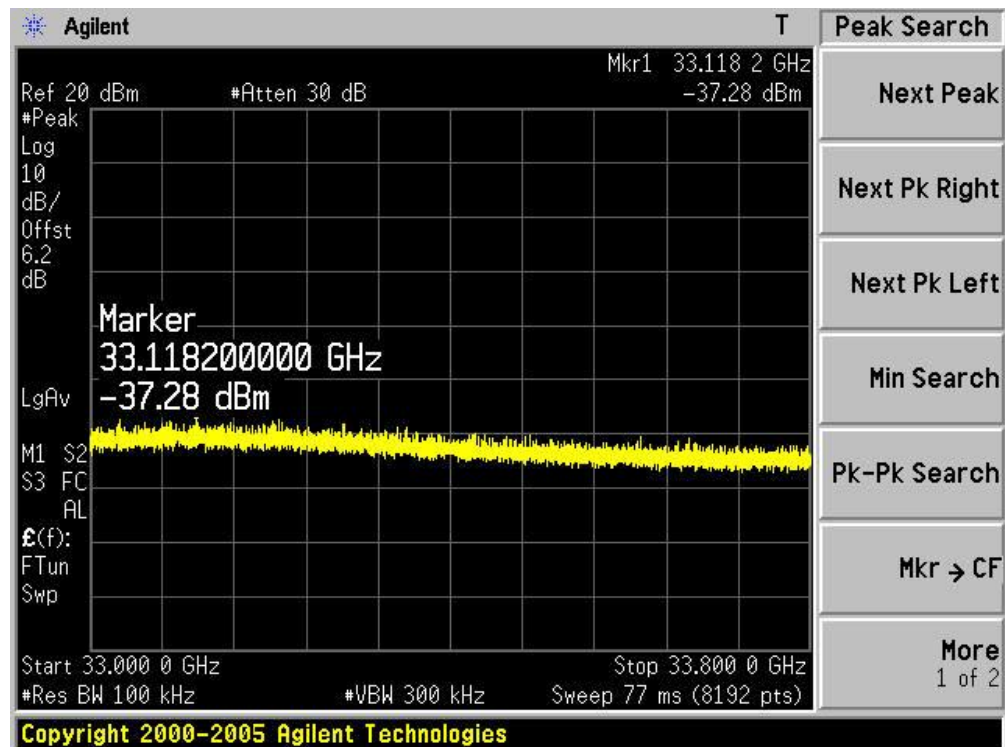
Channel 151 (5755MHz)-16



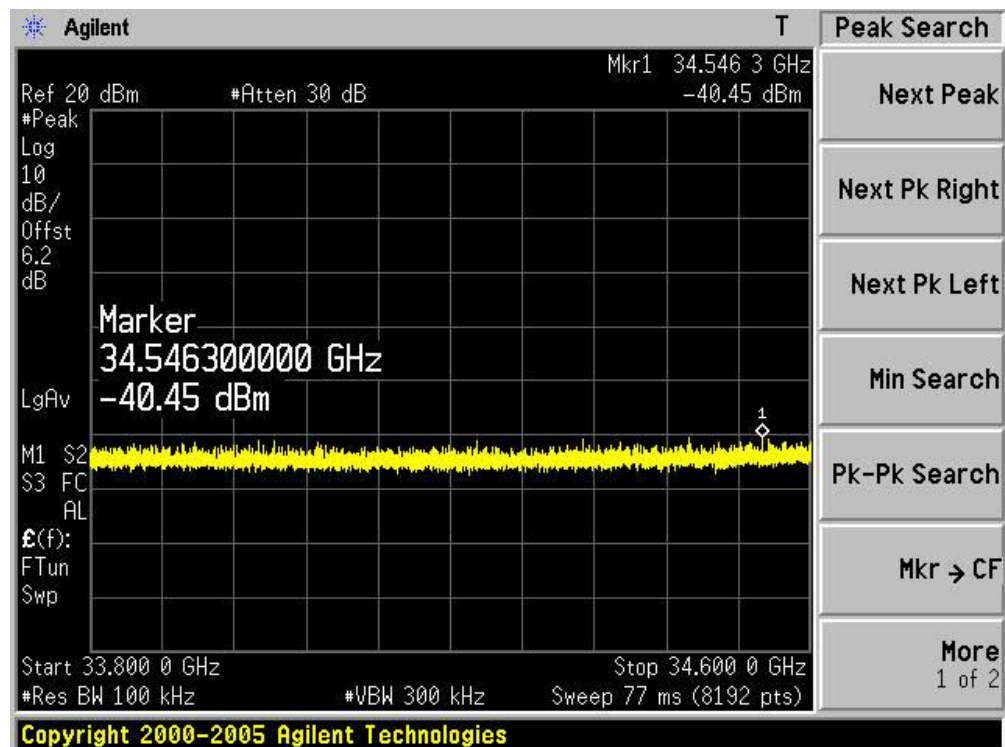
Channel 151 (5755MHz)-17



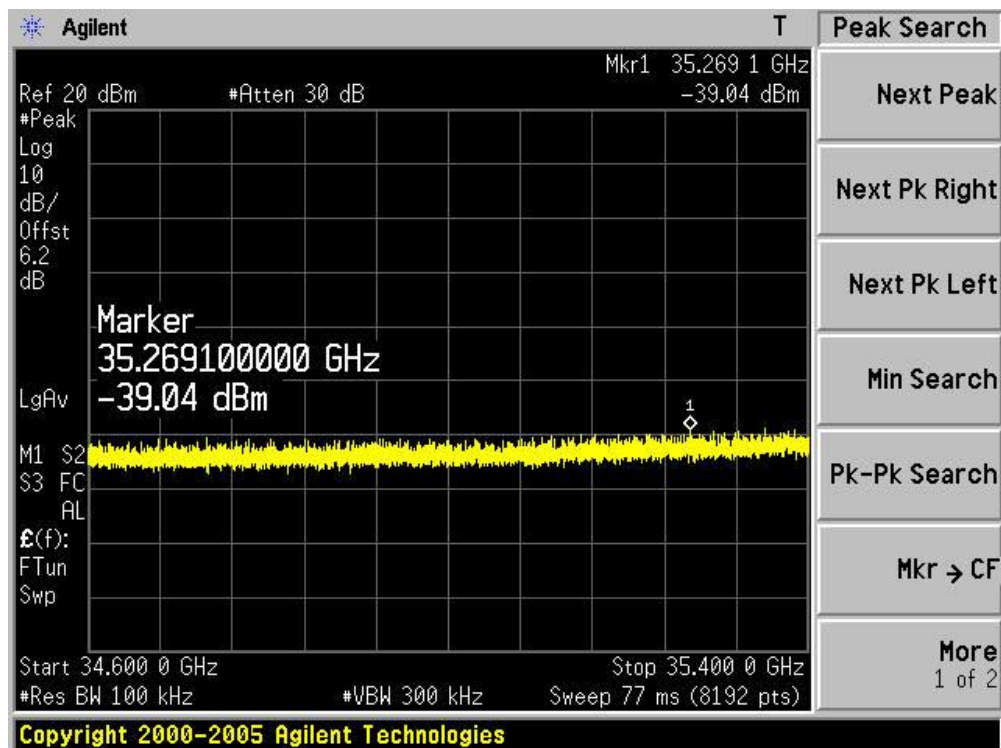
Channel 151 (5755MHz)-18



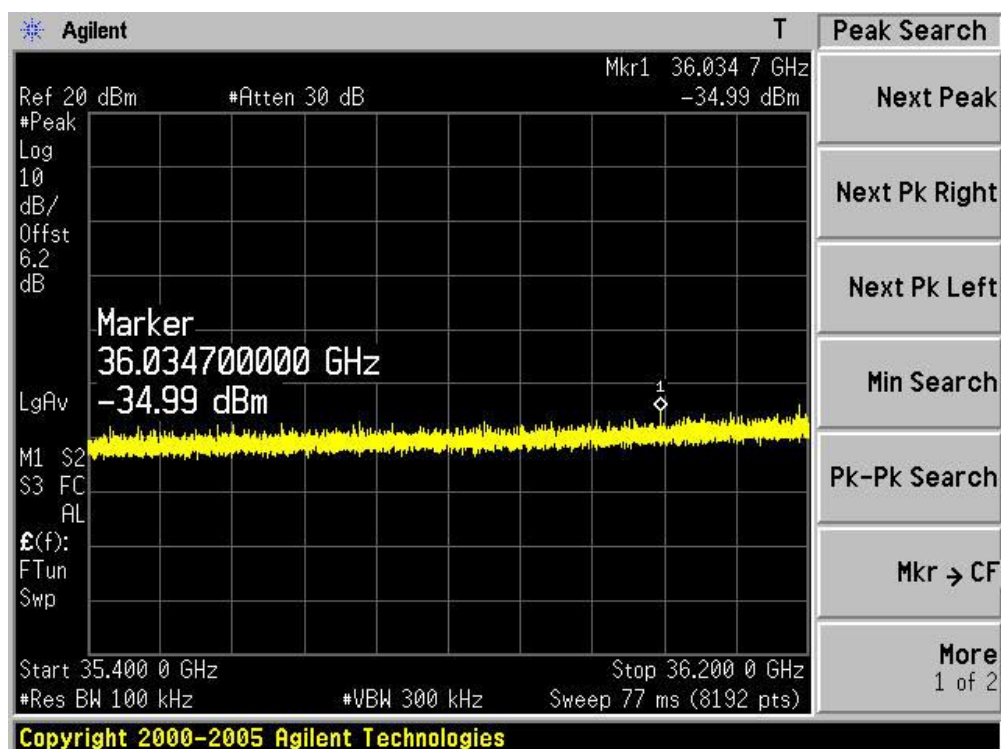
Channel 151 (5755MHz)-19



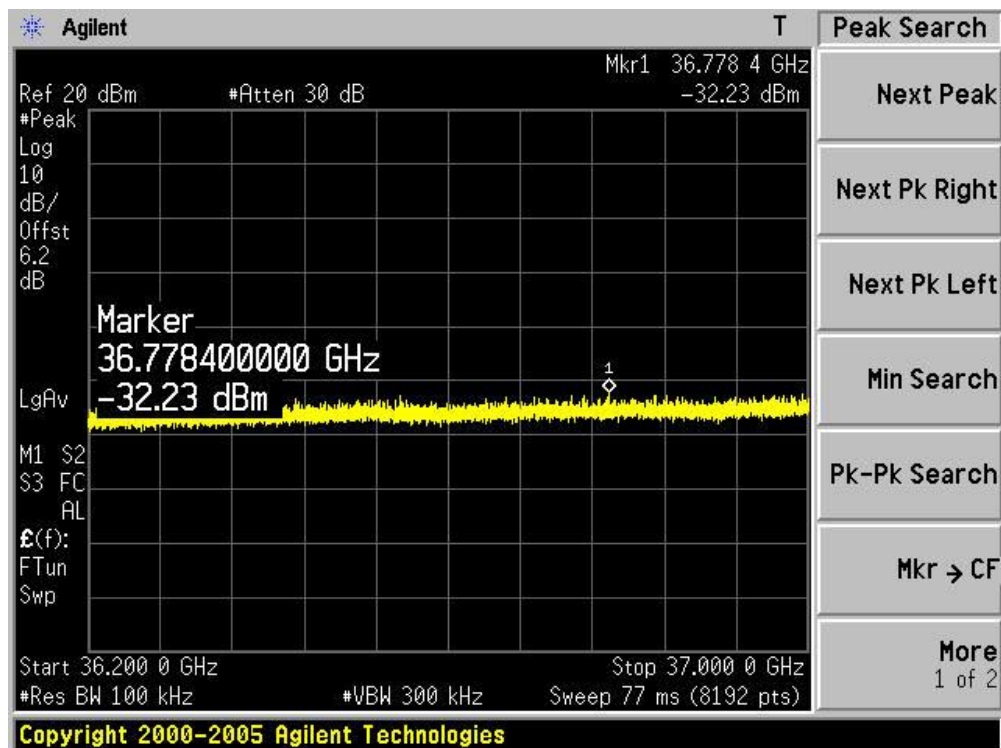
Channel 151 (5755MHz)-20



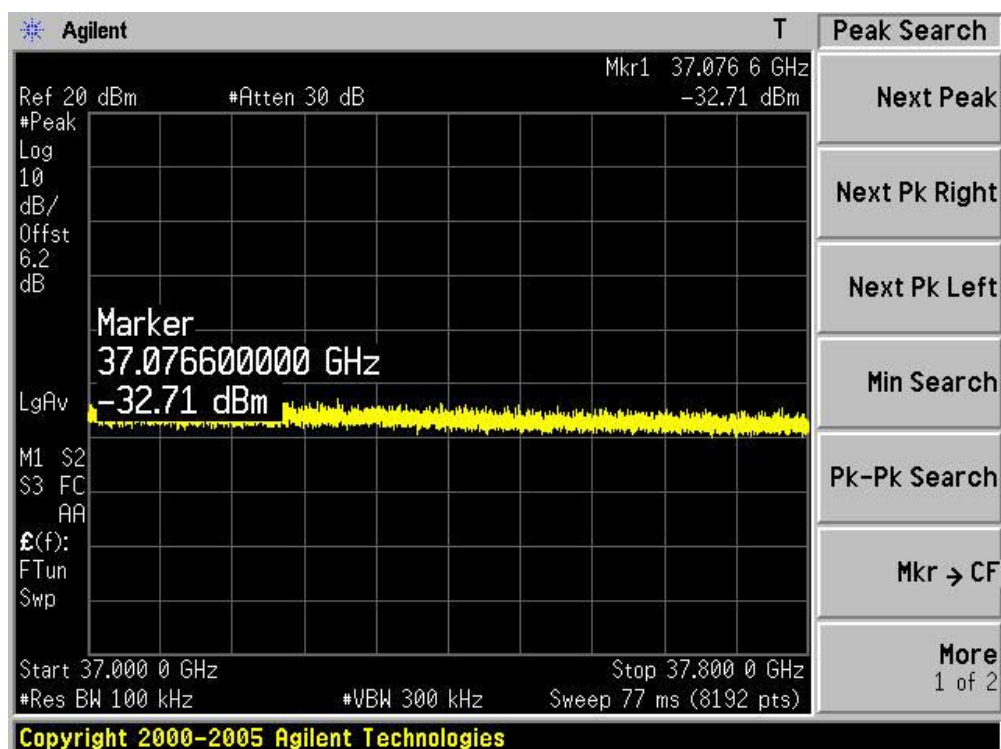
Channel 151 (5755MHz)-21



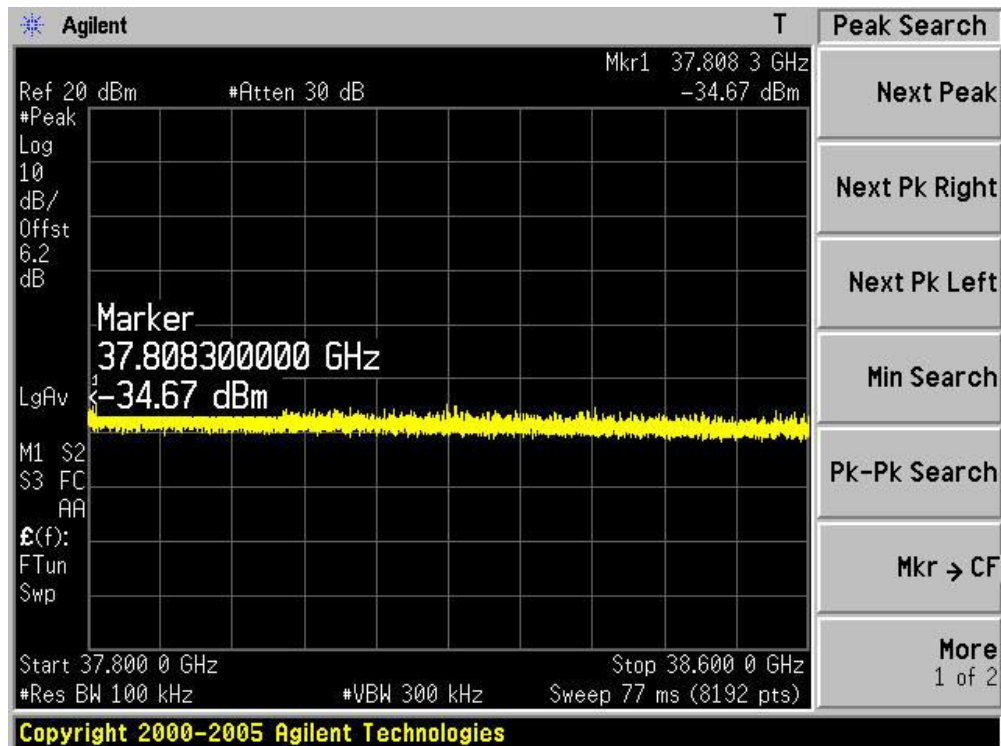
Channel 151 (5755MHz)-22



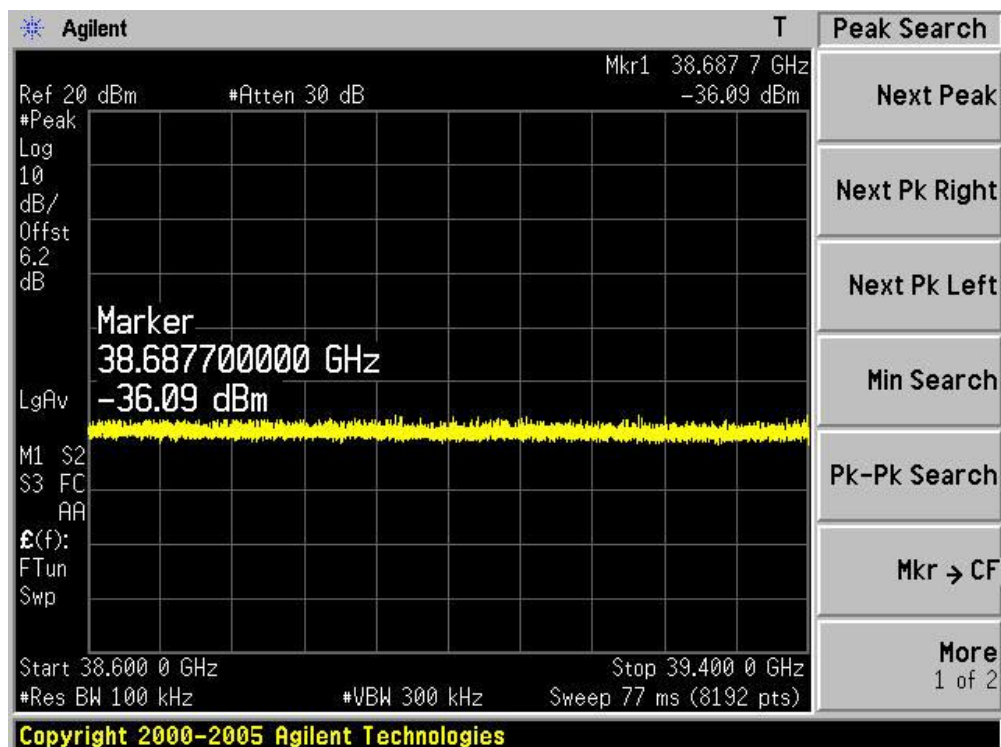
Channel 151 (5755MHz)-23



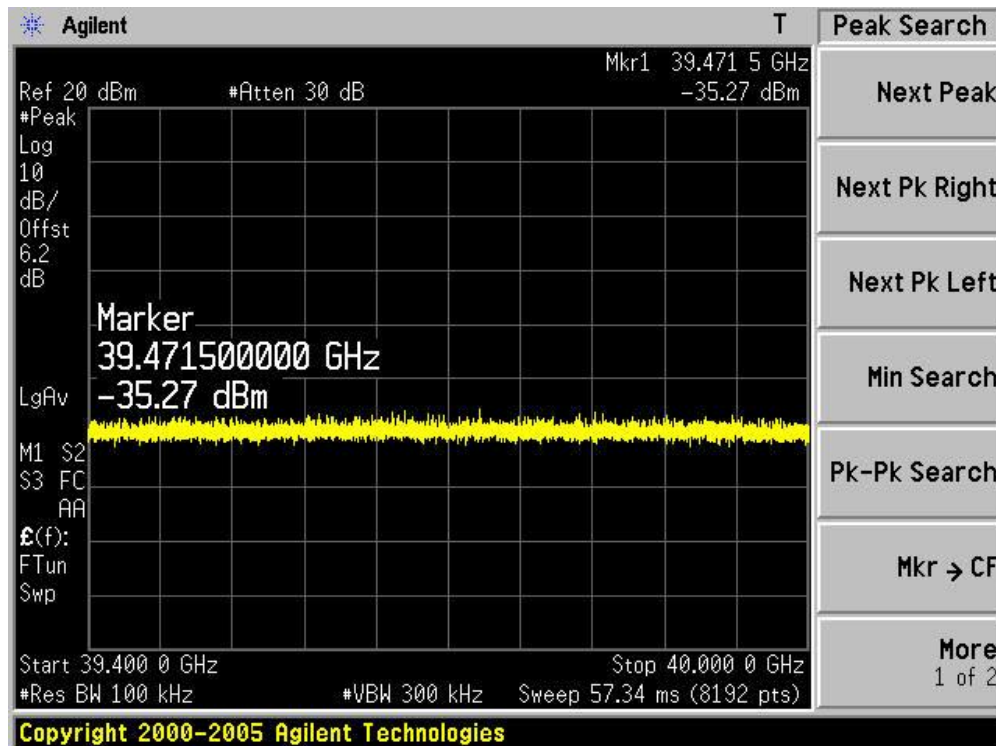
Channel 151 (5755MHz)-24



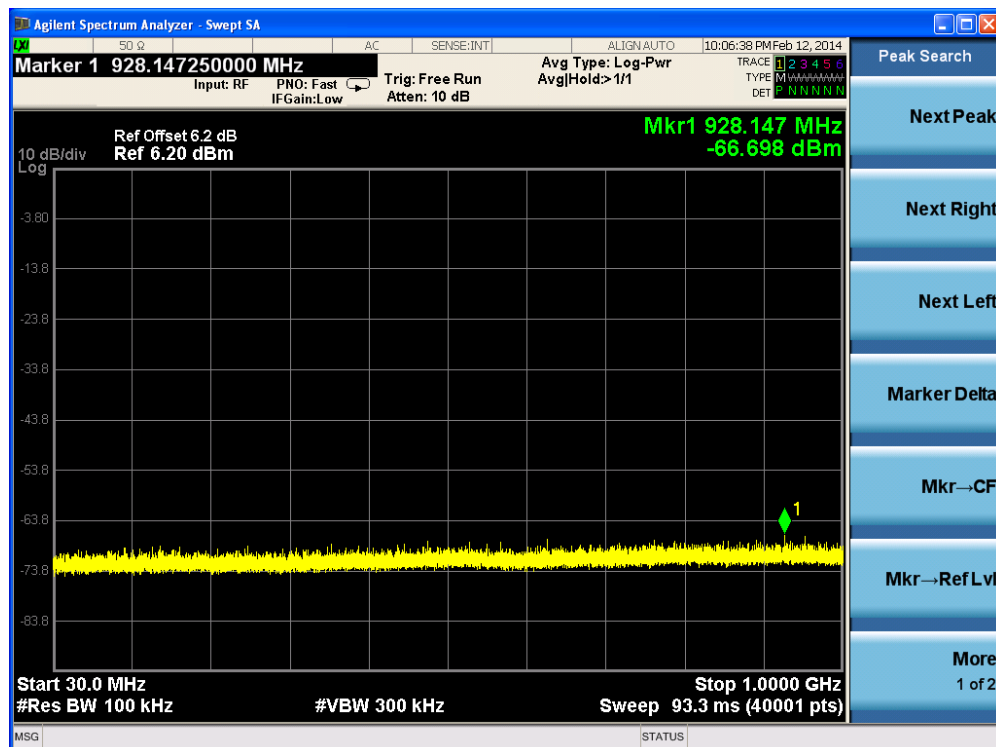
Channel 151 (5755MHz)-25



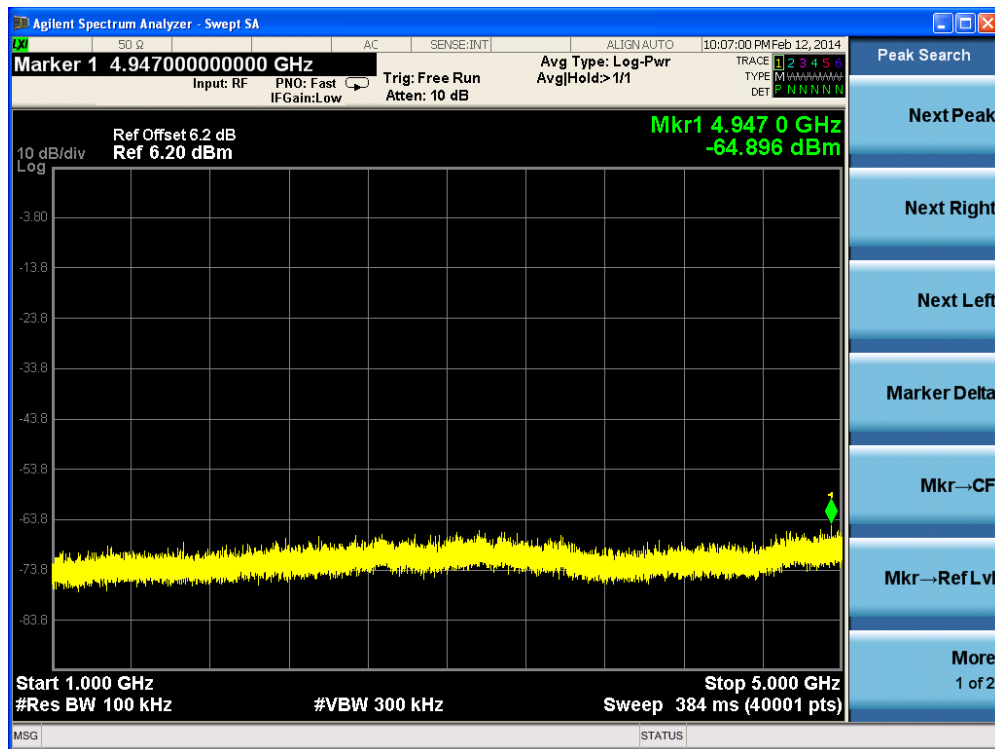
Channel 151 (5755MHz)-26



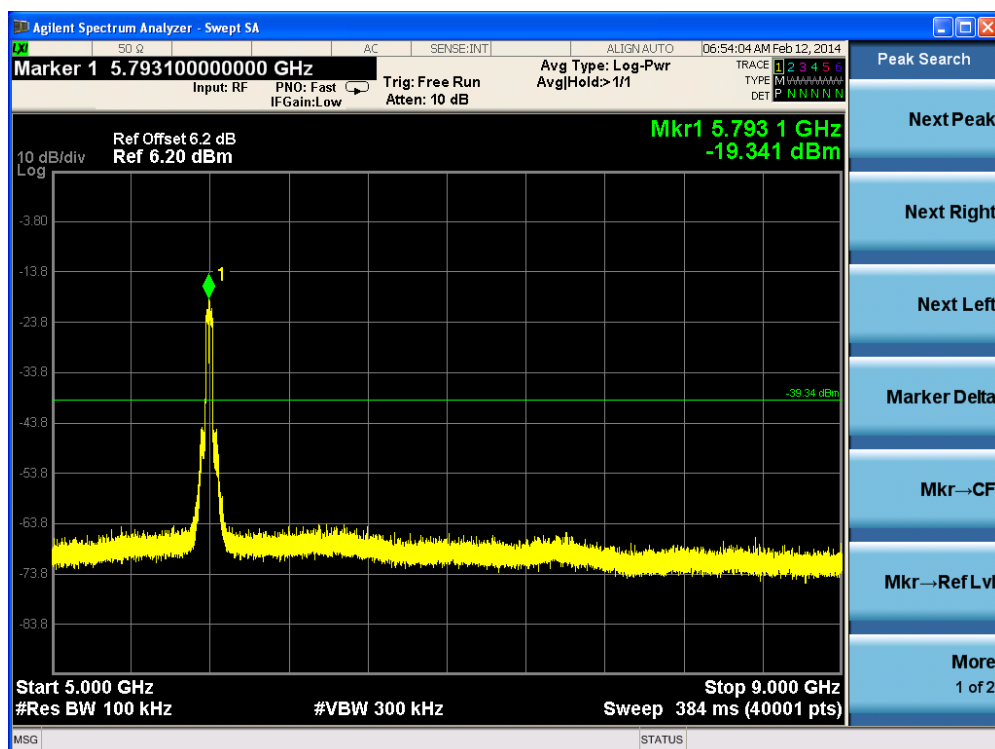
Channel 159 (5795MHz)-1



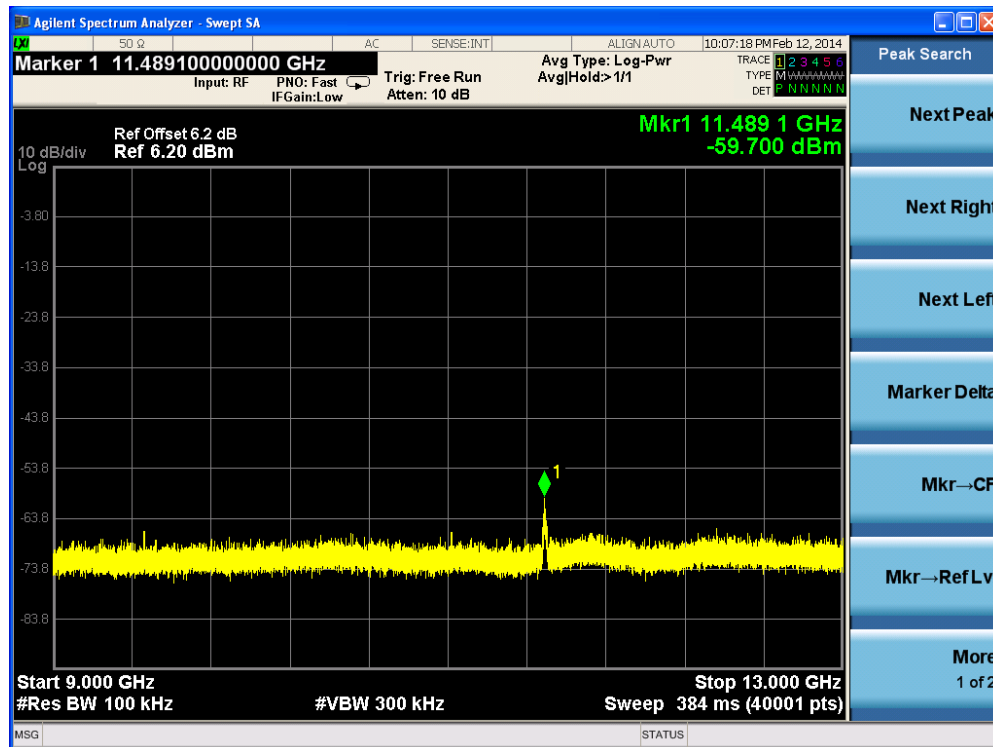
Channel 159 (5795MHz)-2



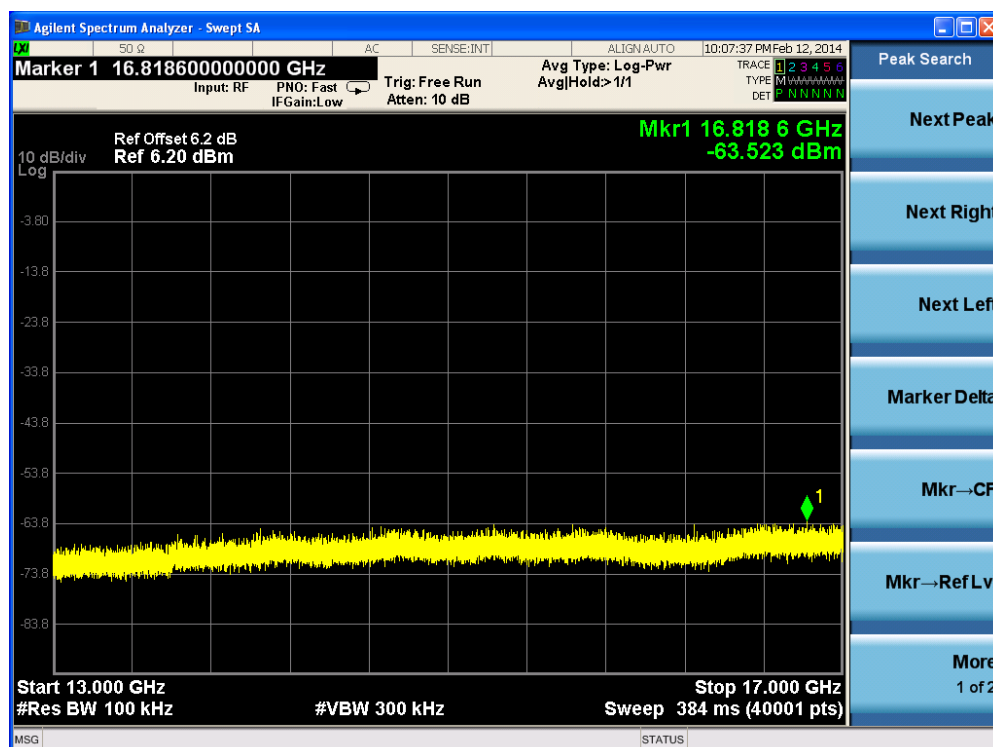
Channel 159 (5795MHz)-3



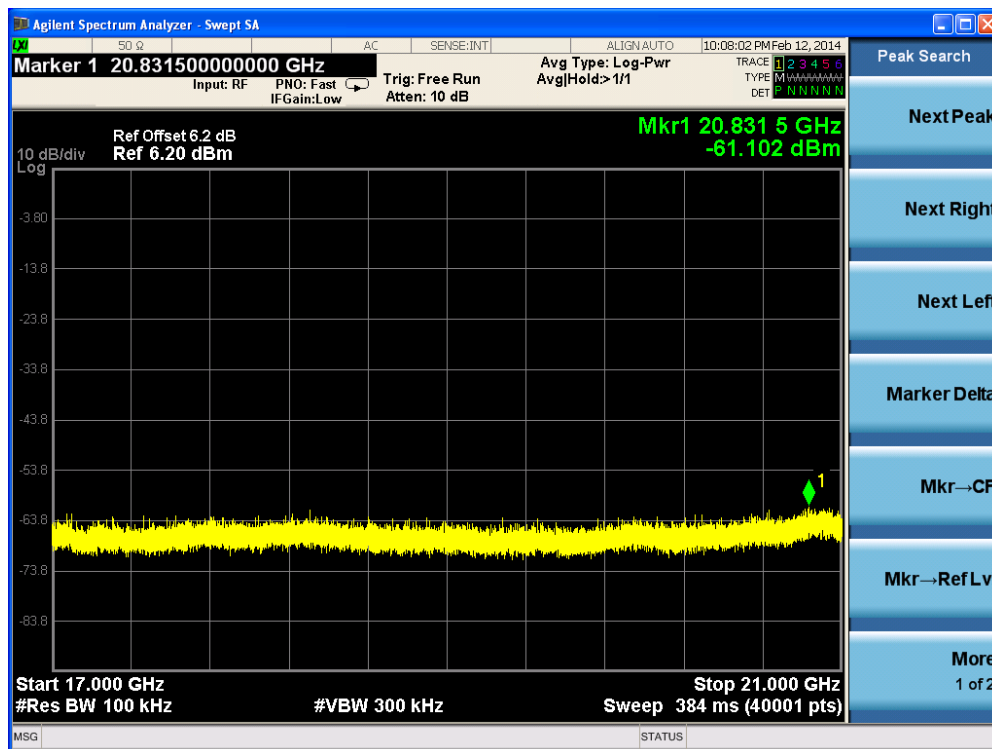
Channel 159 (5795MHz)-4



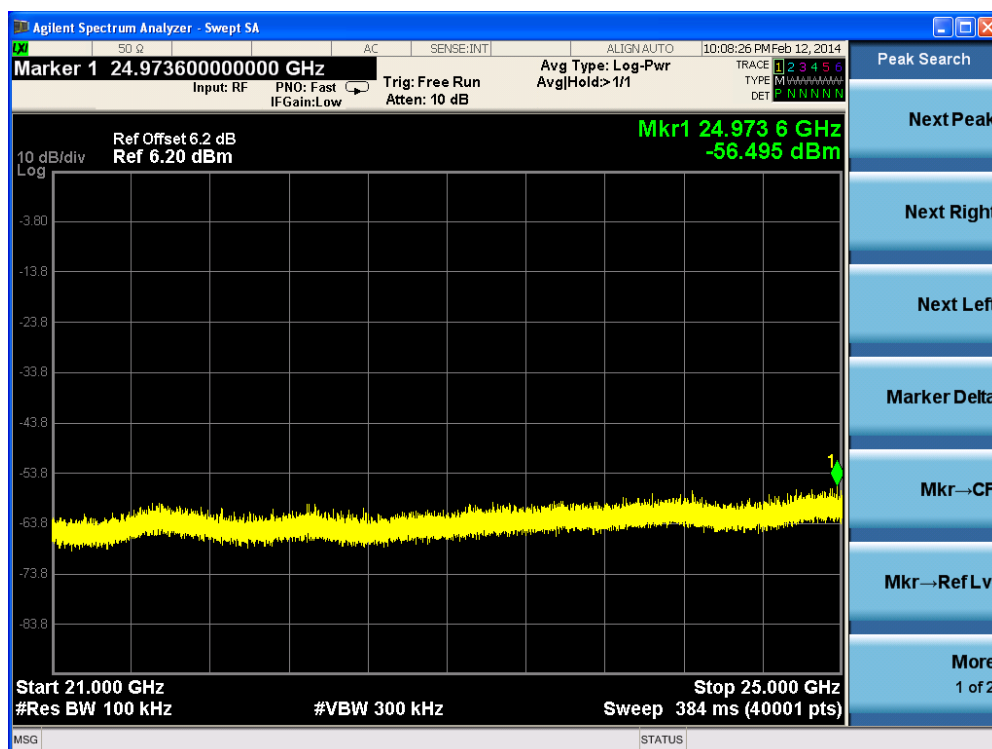
Channel 159 (5795MHz)-5



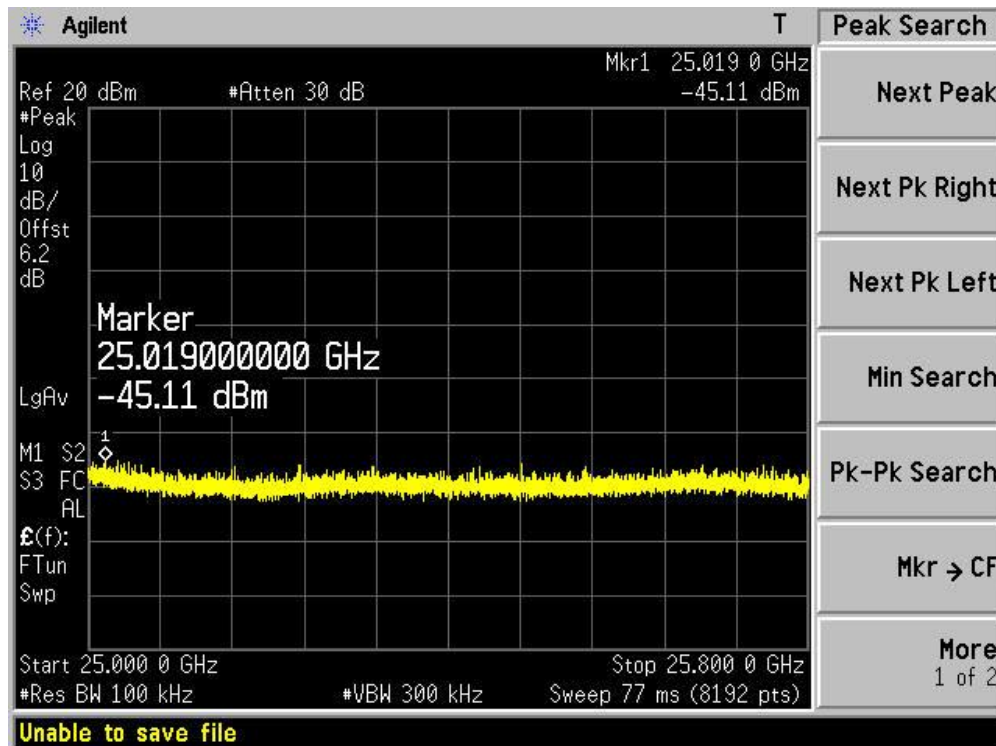
Channel 159 (5795MHz)-6



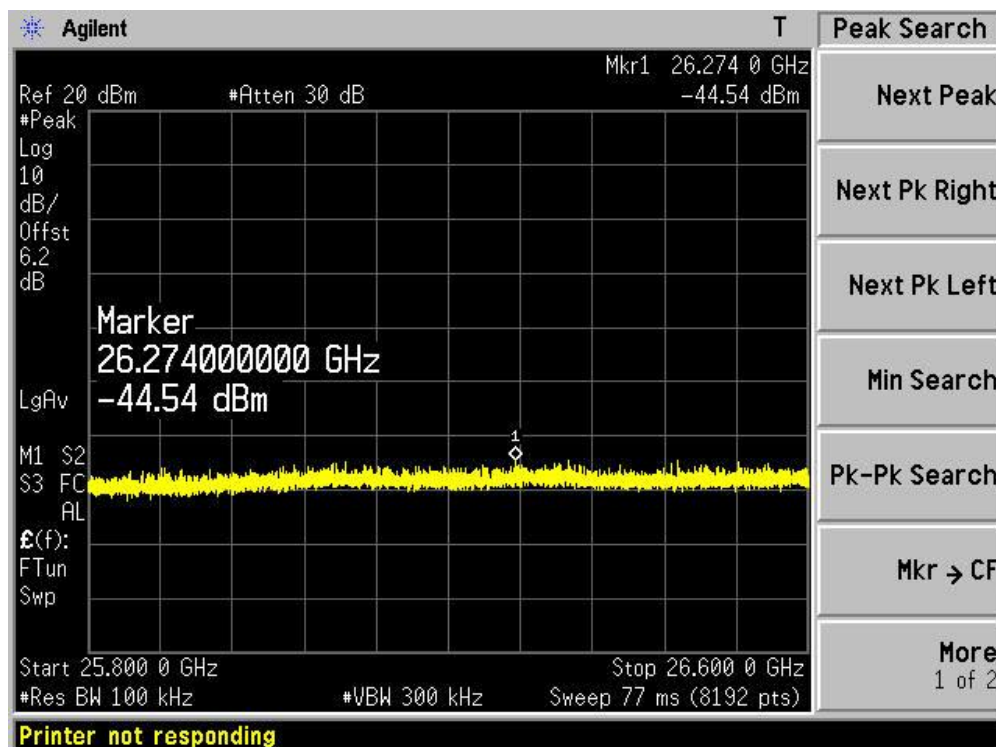
Channel 159 (5795MHz)-7



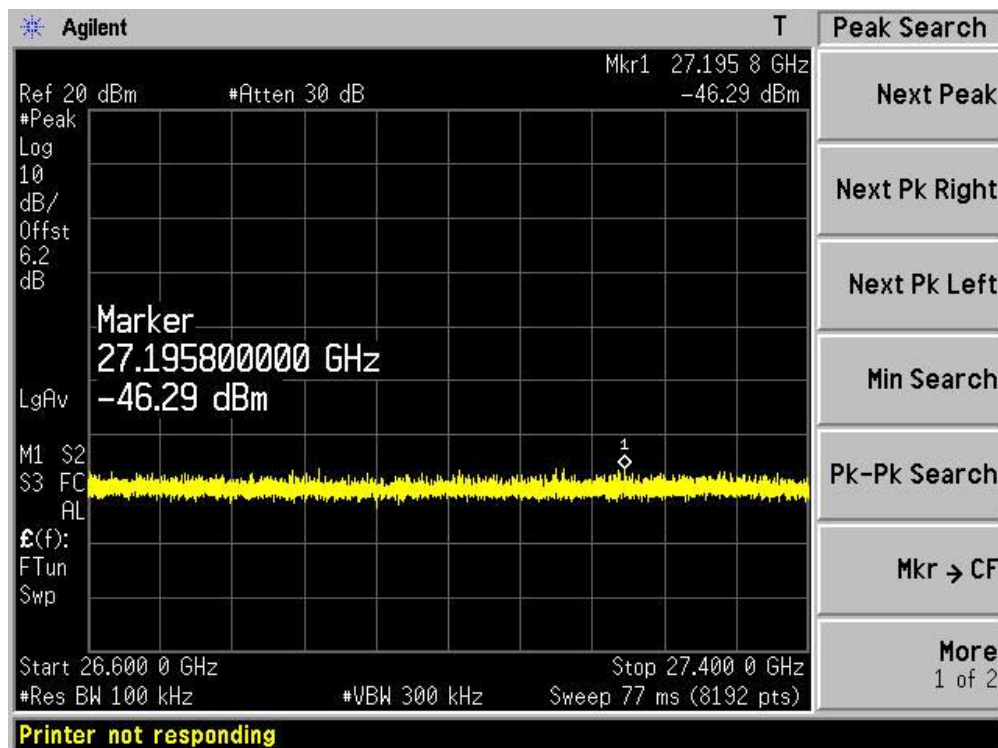
Channel 159 (5795MHz)-8



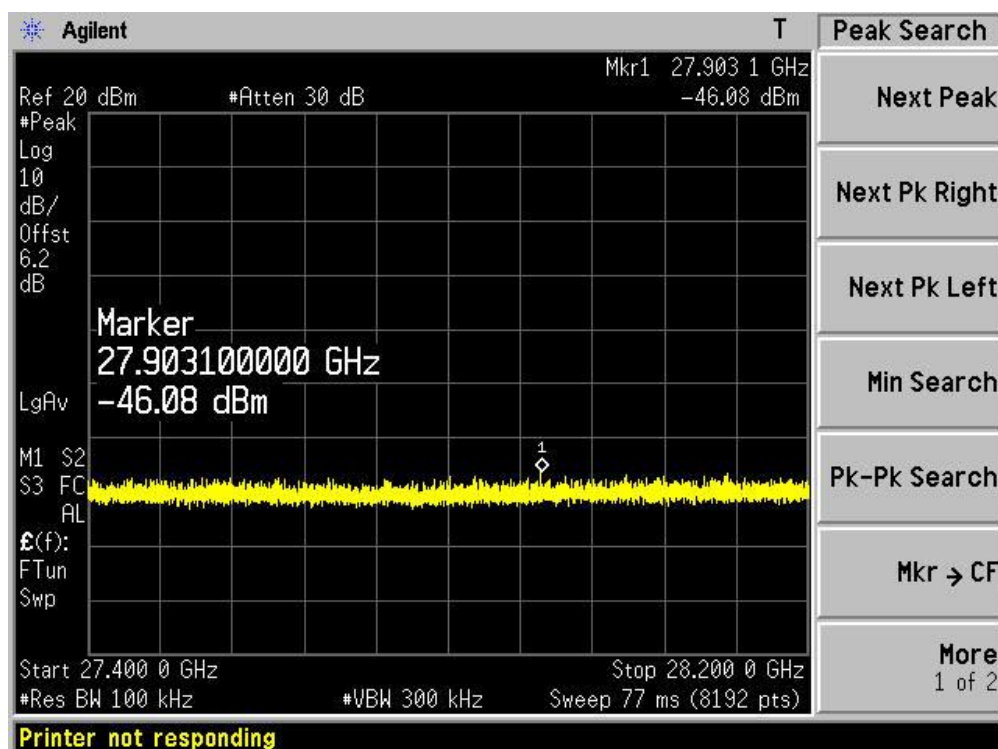
Channel 159 (5795MHz)-9



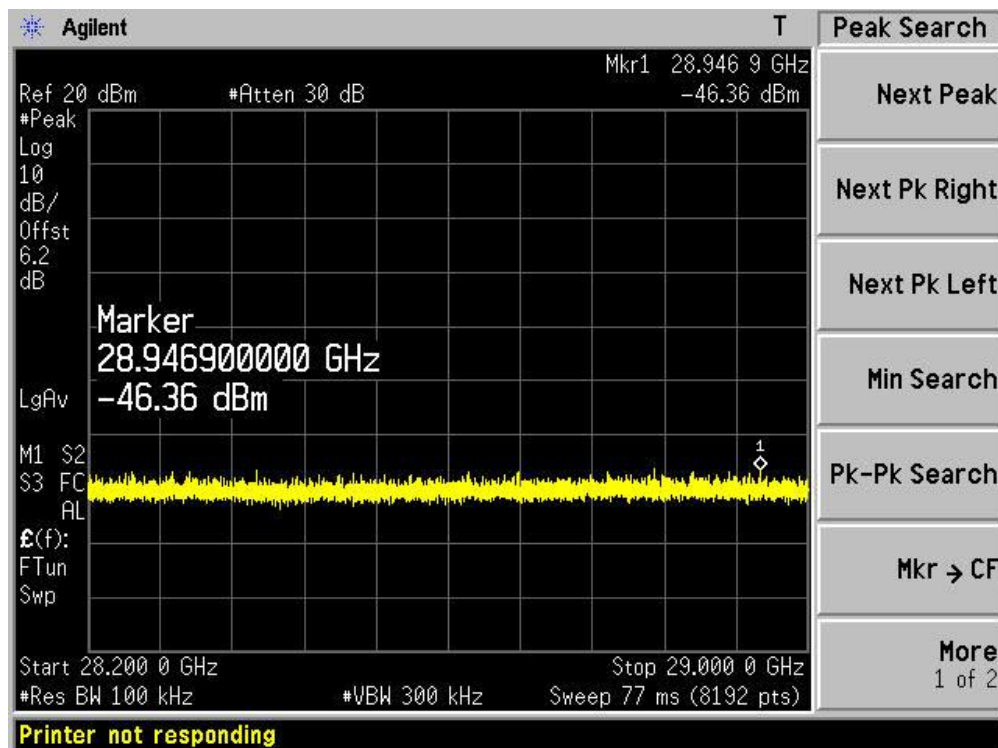
Channel 159 (5795MHz)-10



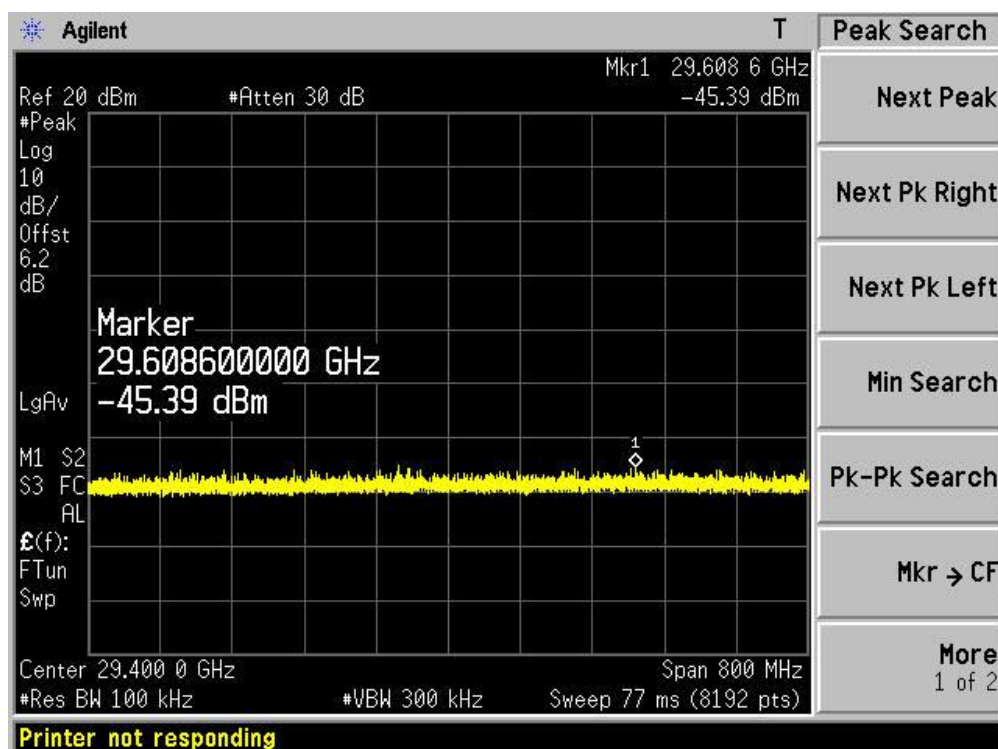
Channel 159 (5795MHz)-11



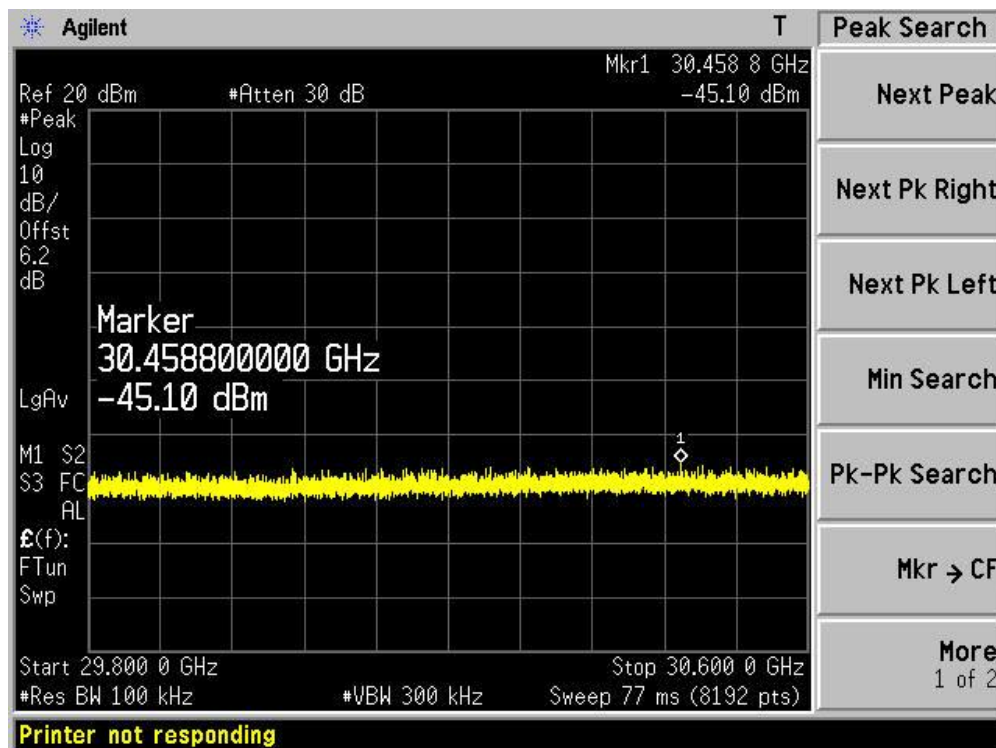
Channel 159 (5795MHz)-12



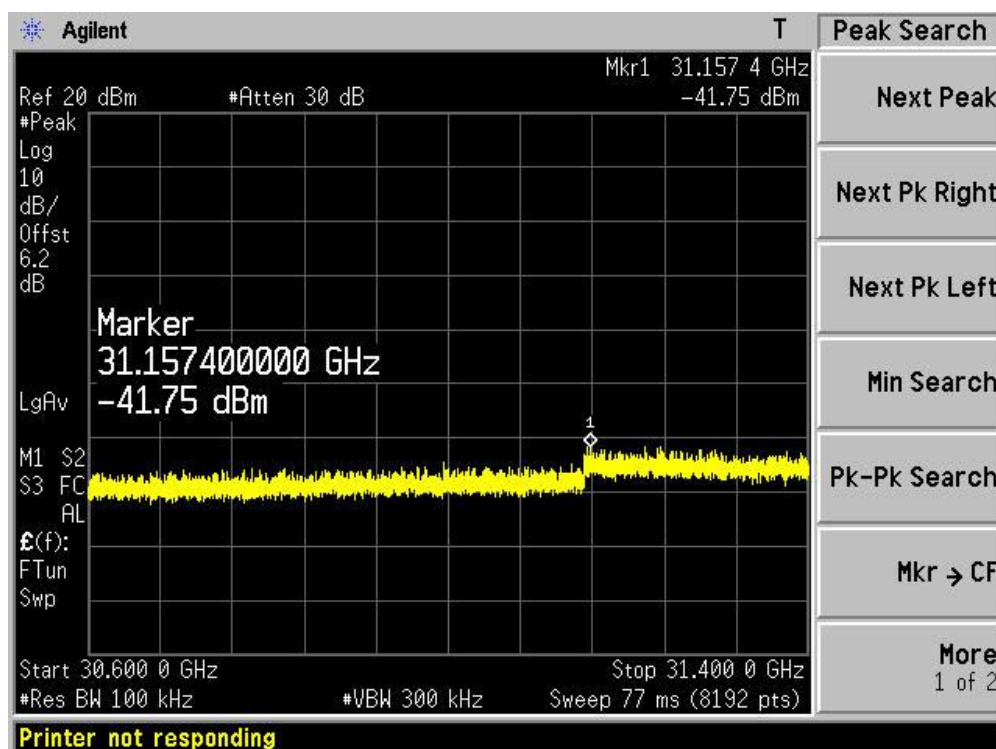
Channel 159 (5795MHz)-13



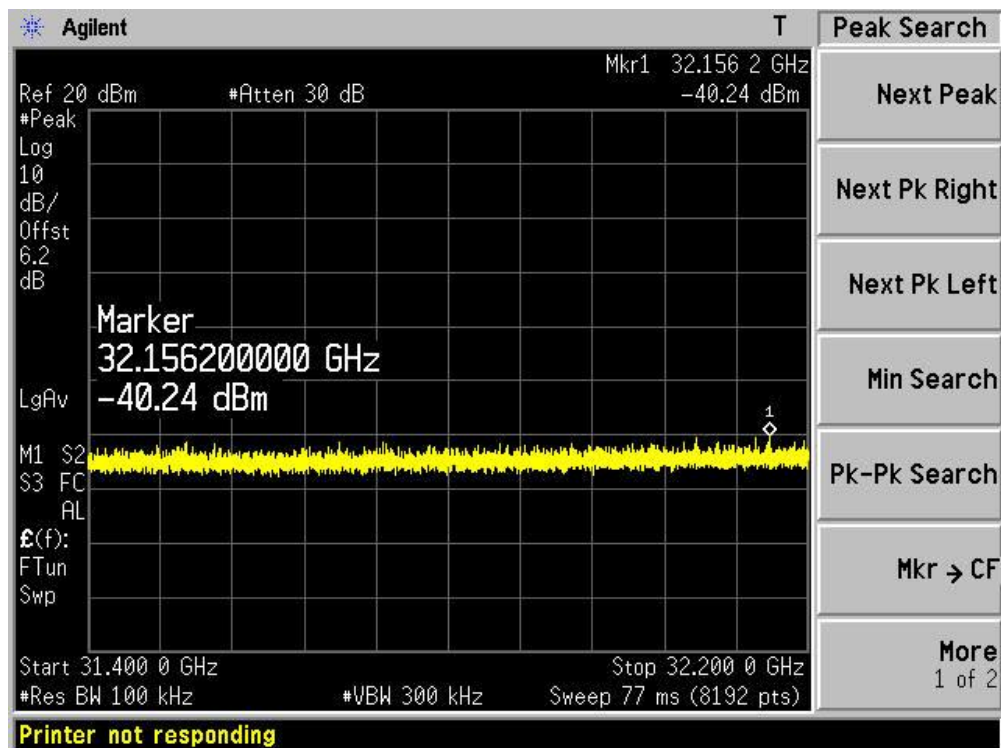
Channel 159 (5795MHz)-14



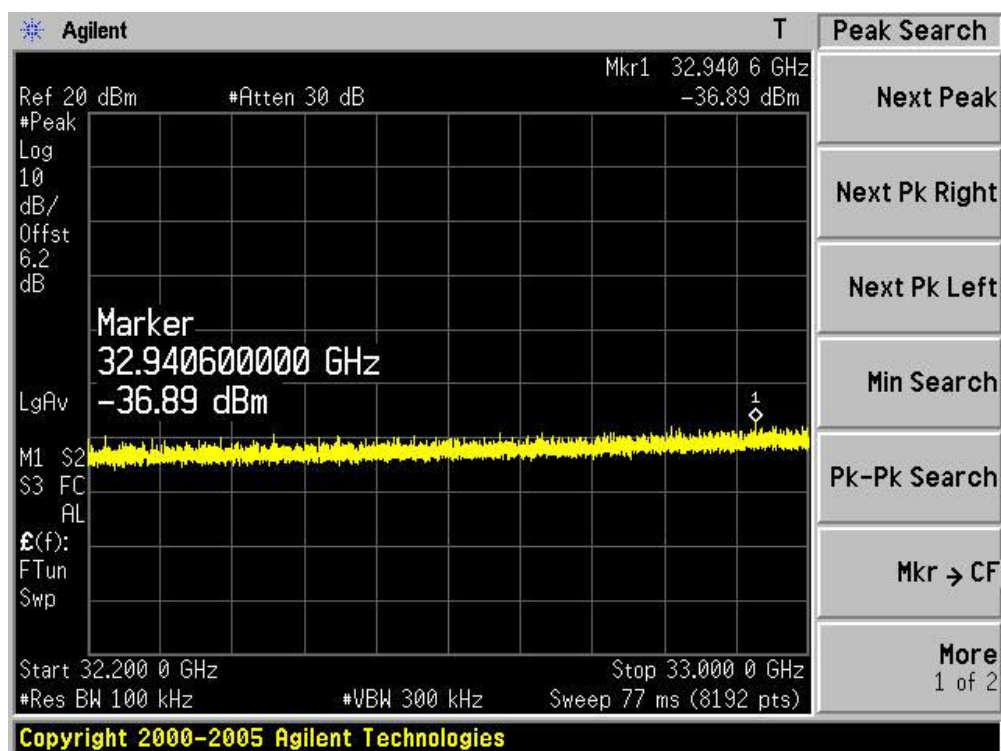
Channel 159 (5795MHz)-15



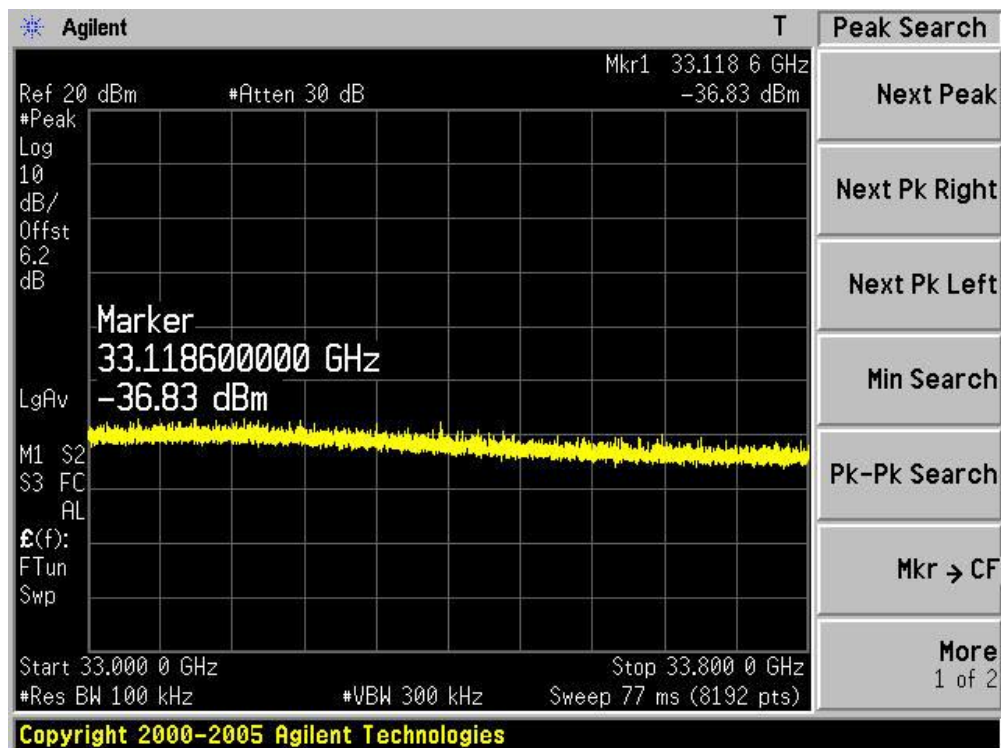
Channel 159 (5795MHz)-16



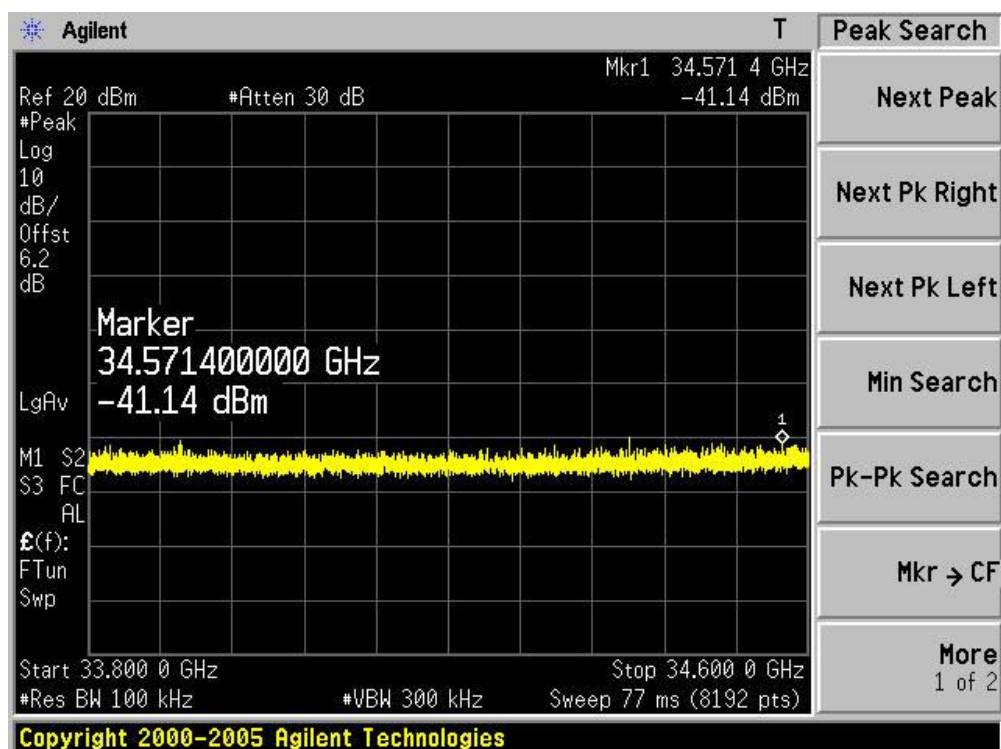
Channel 159 (5795MHz)-17



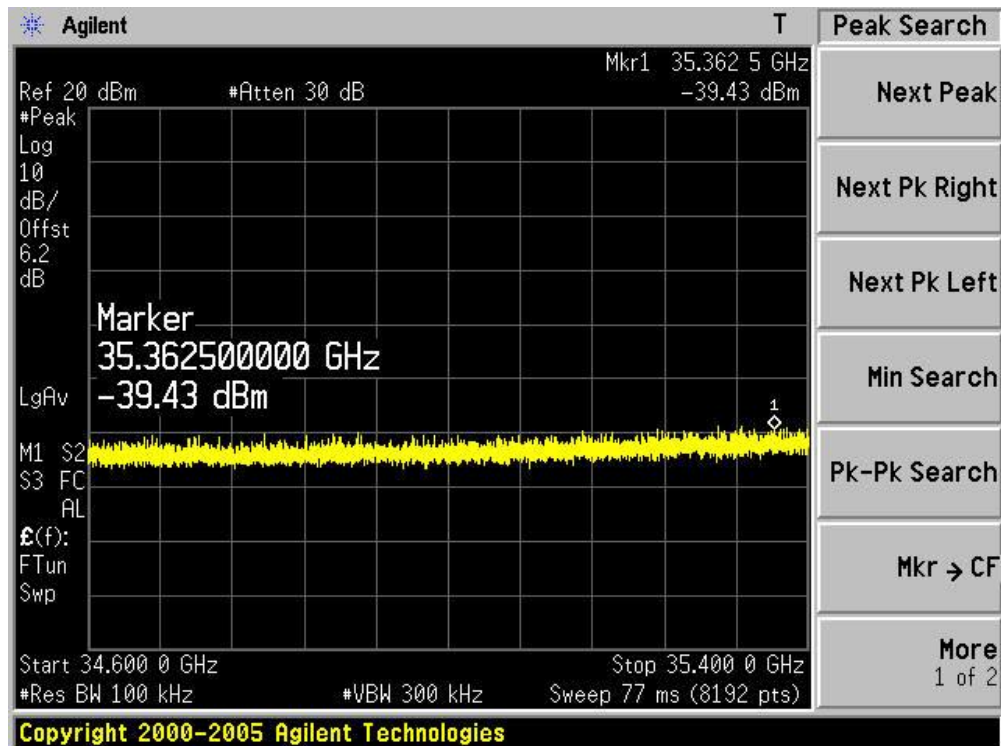
Channel 1159 (5795MHz)-18



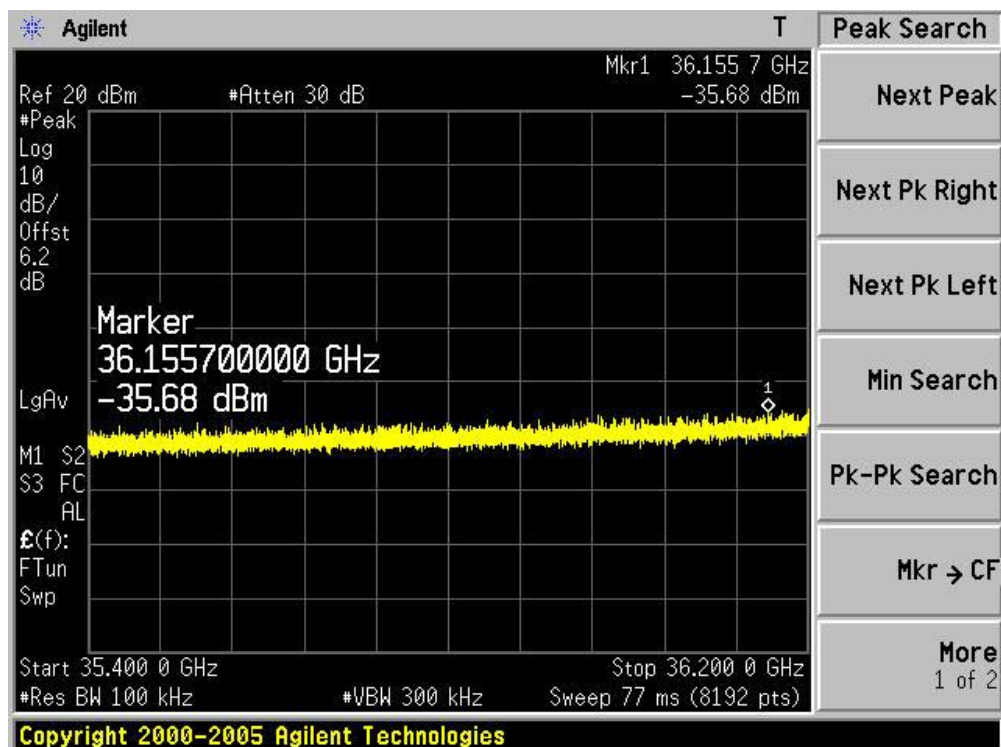
Channel 159 (5795MHz)-19



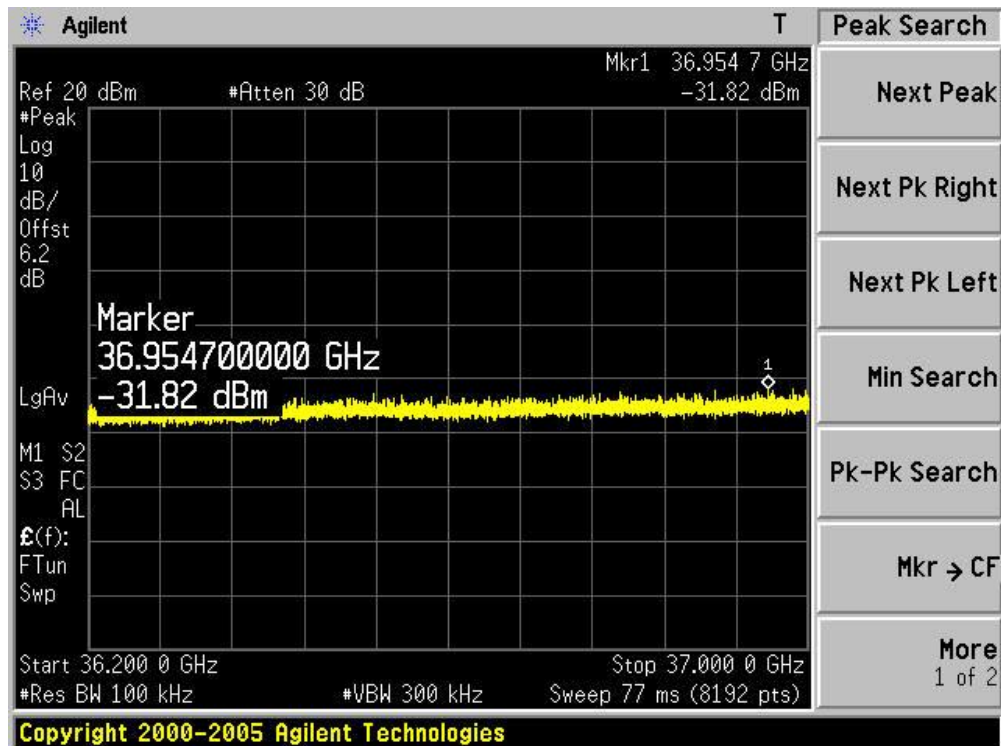
Channel 159 (5795MHz)-20



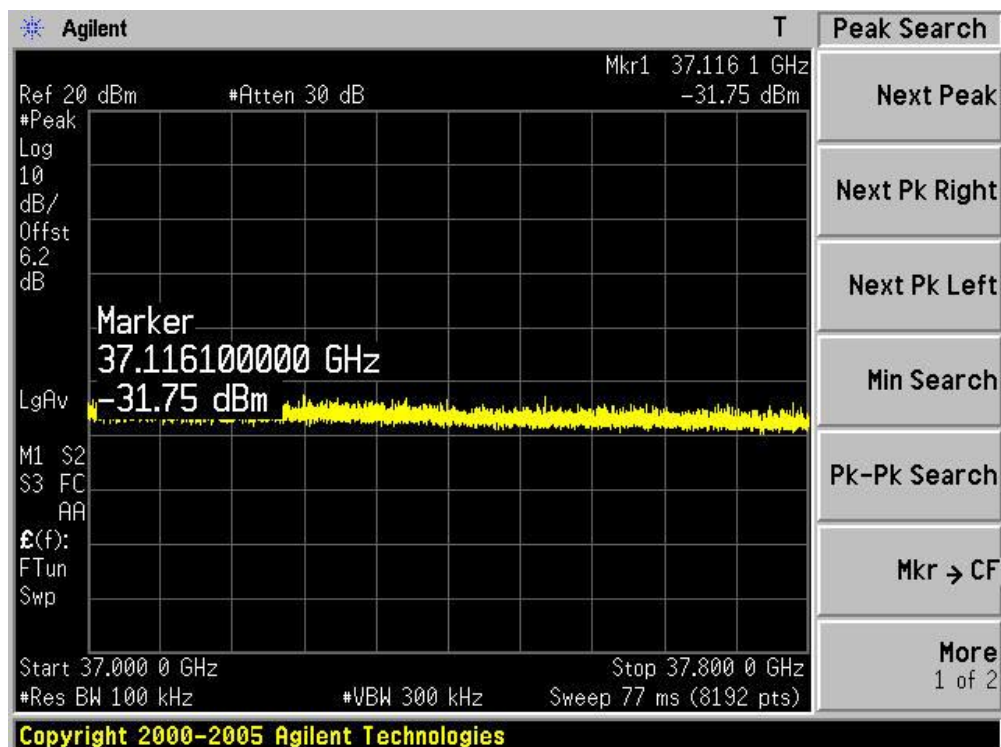
Channel 159 (5795MHz)-21



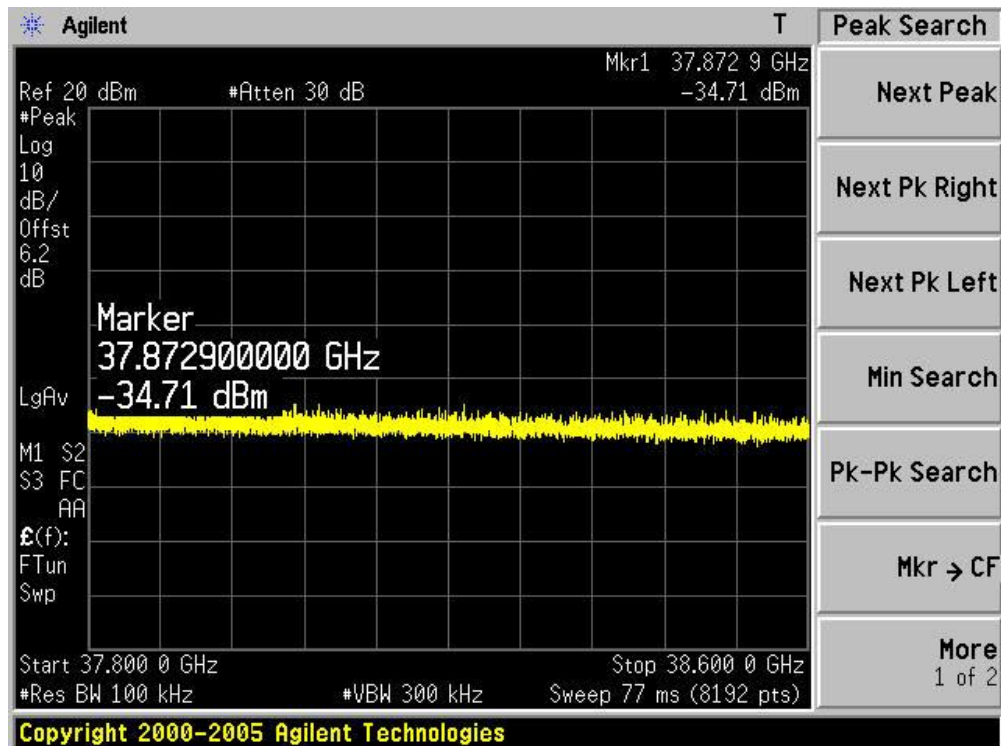
Channel 1159 (5795MHz)-22



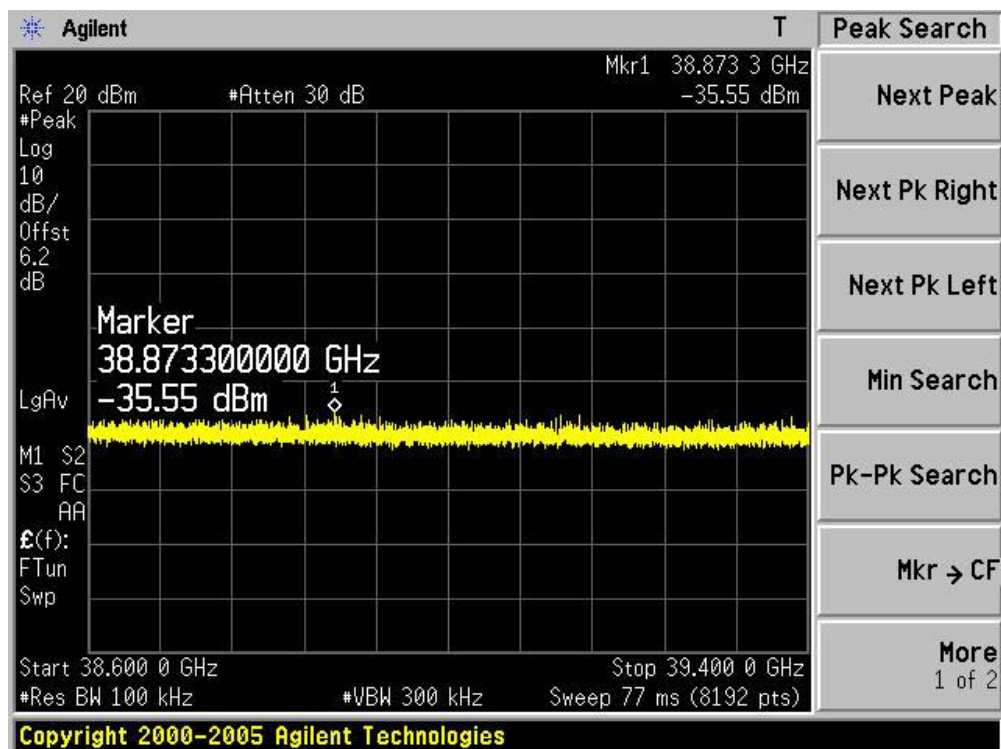
Channel 159 (5795MHz)-23



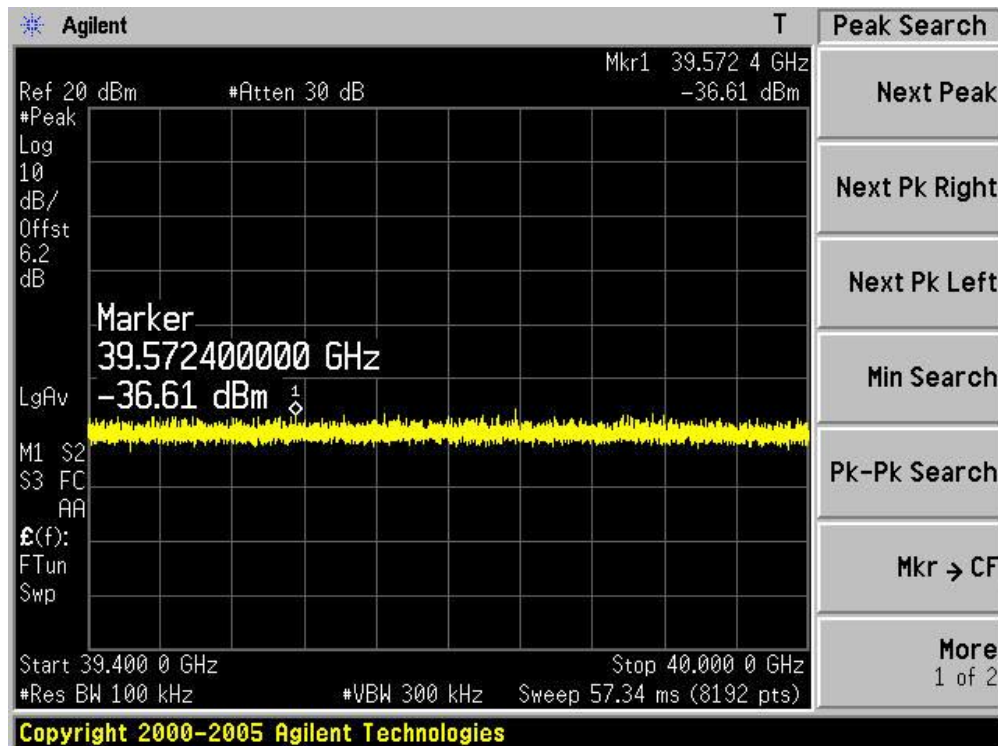
Channel 159 (5795MHz)-24



Channel 159 (5795MHz)-25



Channel 159 (5795MHz)-26



6. Radiated Emission Band Edge

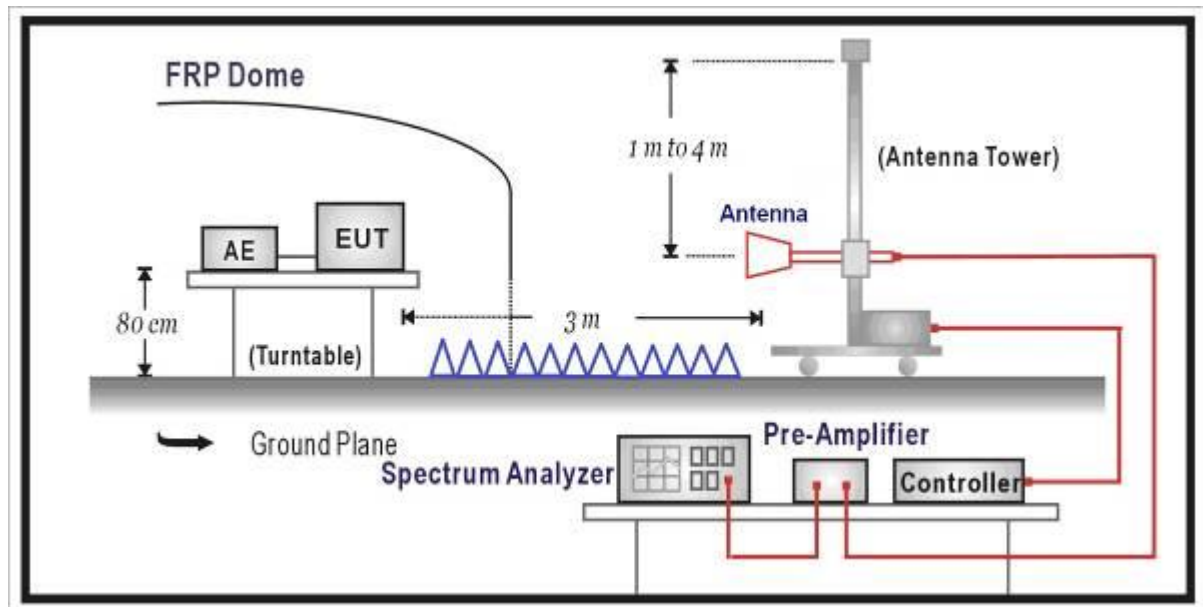
6.1. Test Equipment

☒ Radiated Emission Band Edge / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2014.03.30
Preamplifier	Miteq	NSP1800-25	1364185	2014.05.04
Preamplifier	Quietek	AP-040G	CHM-0906001	2014.05.04
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2013.10.15
DRG Horn	ETS-Lindgren	3117	00123988	2014.01.21
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	2014.01.11

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

6.2. Test Setup



6.3. Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.4. 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.

6.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

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

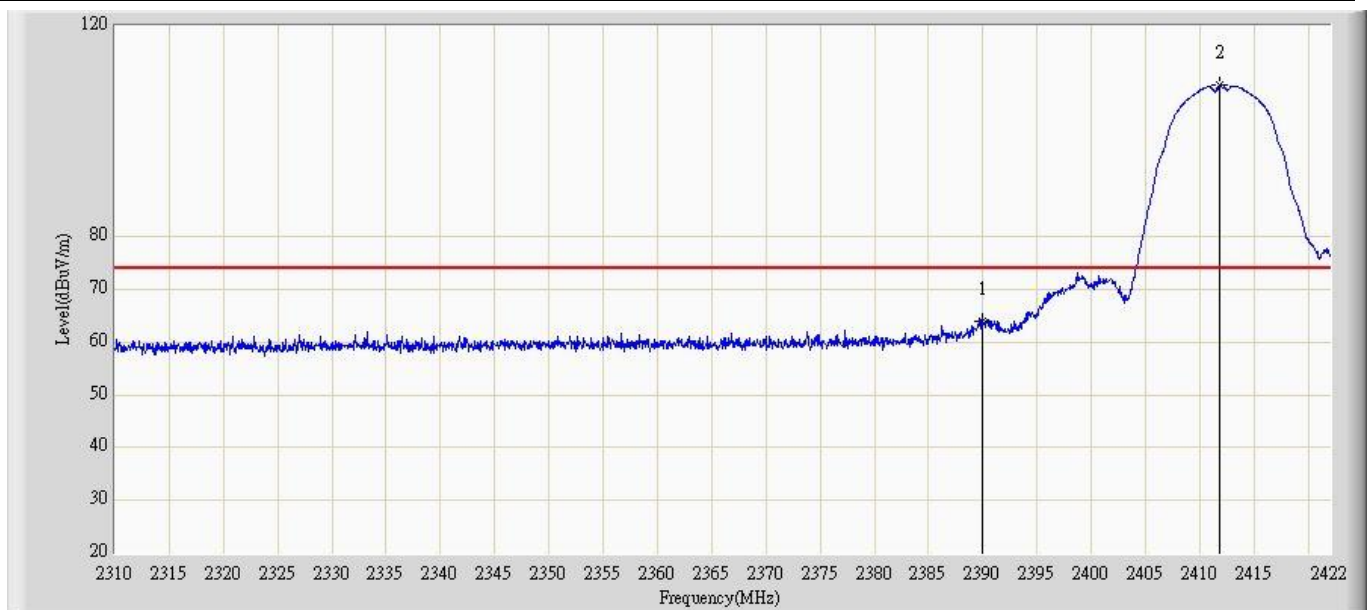
Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

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

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

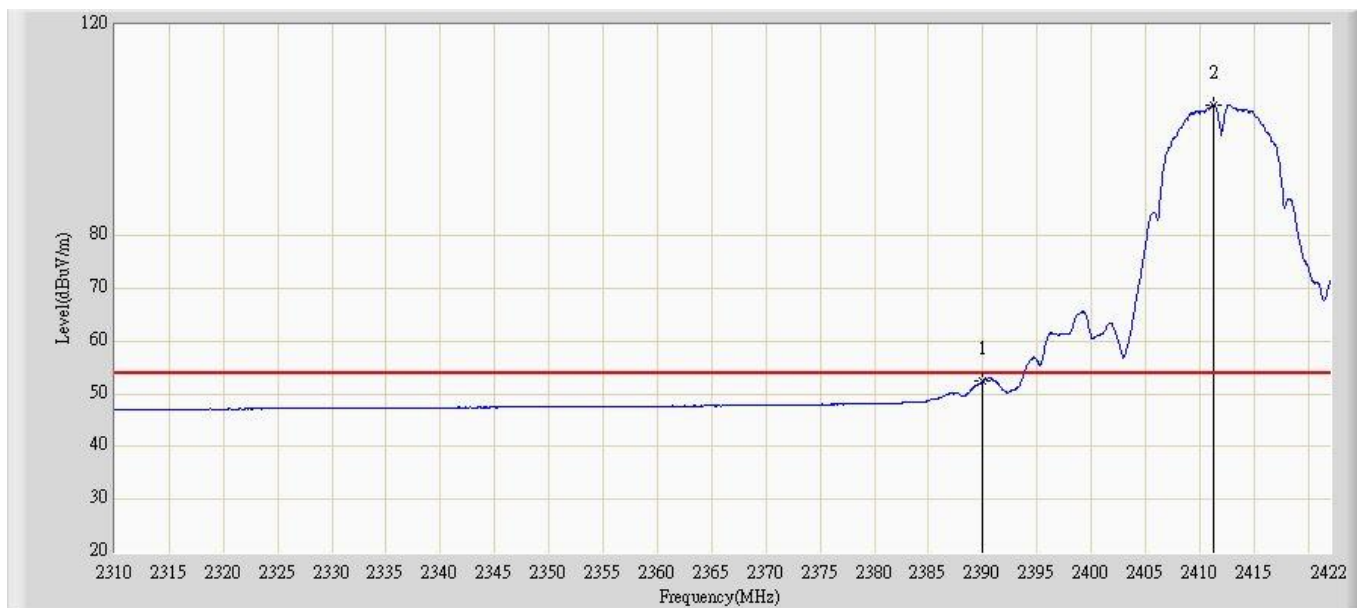
In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice will be followed.

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 11:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 1: Transmit at CH1 by 802.11b ant0	



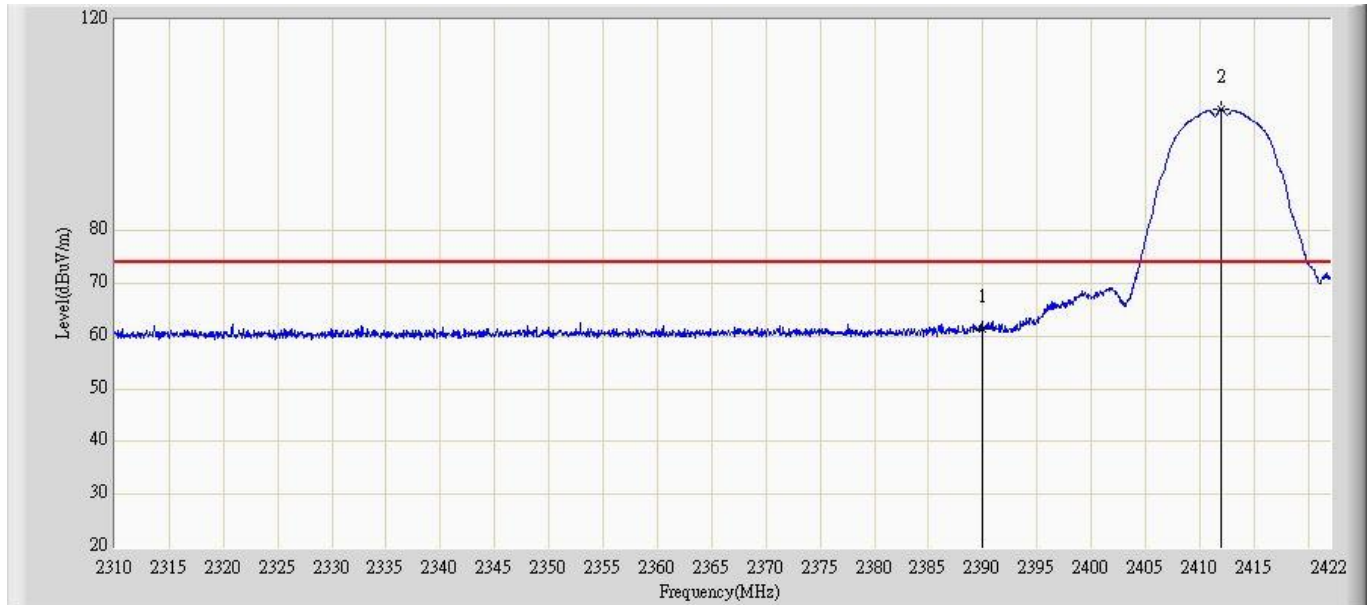
No	Flag	Marker	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	63.848	26.201	-10.152	74.000	37.648	PK
2		*	2411.864	108.722	70.878	N/A	N/A	37.844	PK

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 13:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 1: Transmit at CH1 by 802.11b ant0	



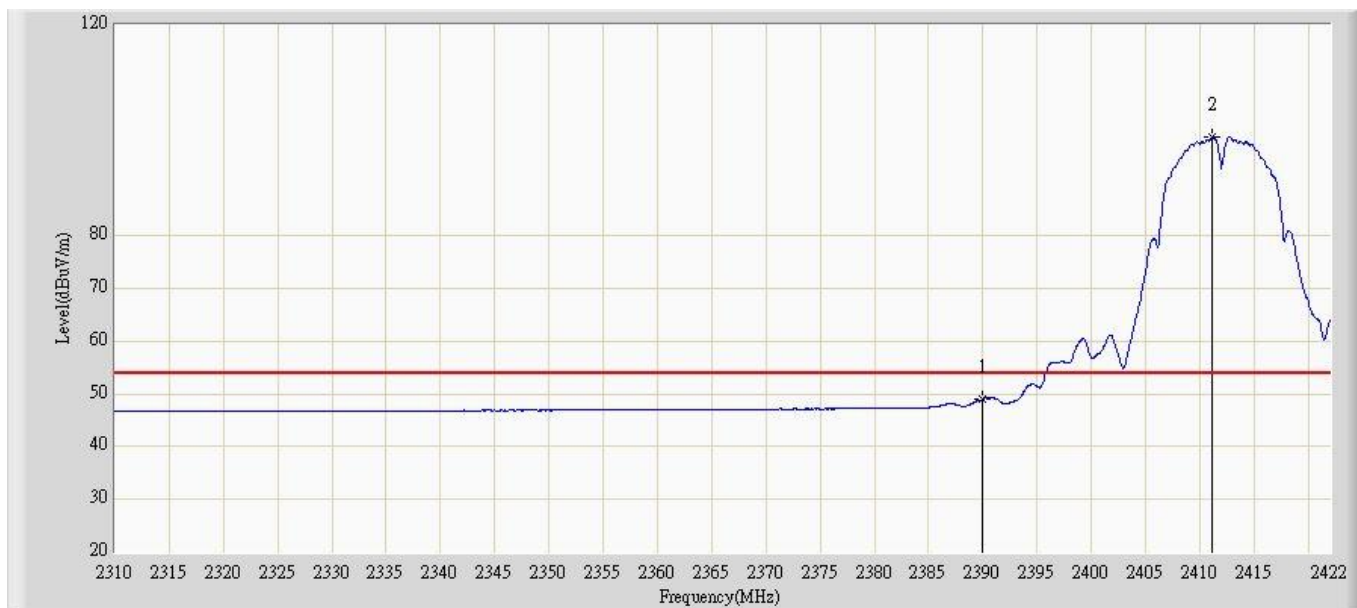
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	52.462	14.815	-1.538	54.000	37.648	AV
2		*	2411.304	104.791	66.952	N/A	N/A	37.838	AV

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 13:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 1: Transmit at CH1 by 802.11b ant0	



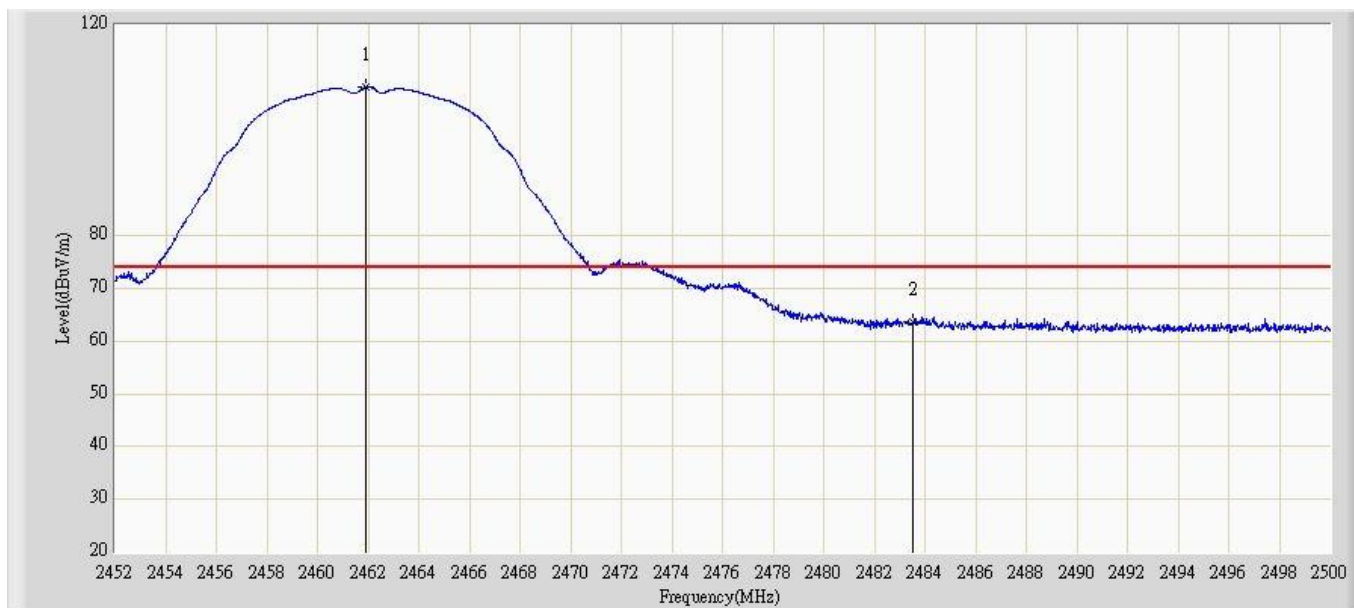
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	61.388	24.401	-12.612	74.000	36.988	PK
2		*	2412.032	103.025	65.928	N/A	N/A	37.097	PK

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 13:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 1: Transmit at CH1 by 802.11b ant0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	48.973	11.986	-5.027	54.000	36.988	AV
2		*	2411.192	98.778	61.685	N/A	N/A	37.093	AV

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 13:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 1: Transmit at CH11 by 802.11b ant0	



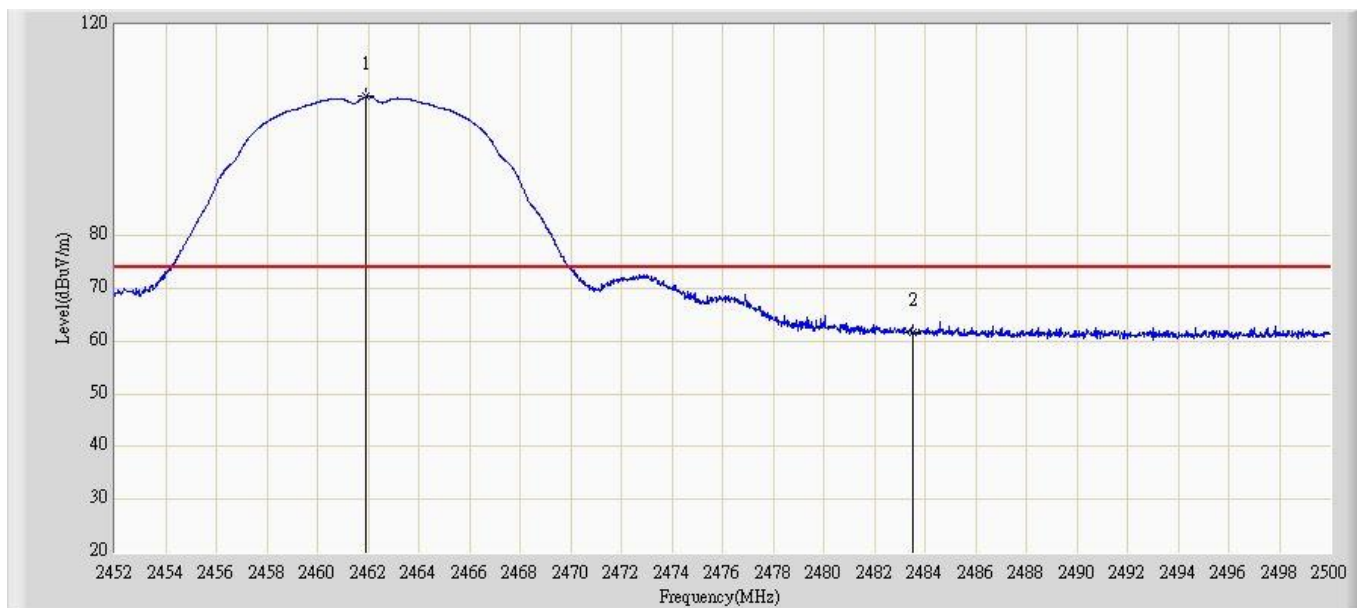
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.912	108.175	69.891	N/A	N/A	38.284	PK
2			2483.500	63.562	25.087	-10.483	74.000	38.475	PK

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 13:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 1: Transmit at CH11 by 802.11b ant0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.240	103.799	65.521	N/A	N/A	38.278	AV
2			2483.500	50.285	11.810	-3.715	54.000	38.475	AV

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 13:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 1: Transmit at CH11 by 802.11b ant0	



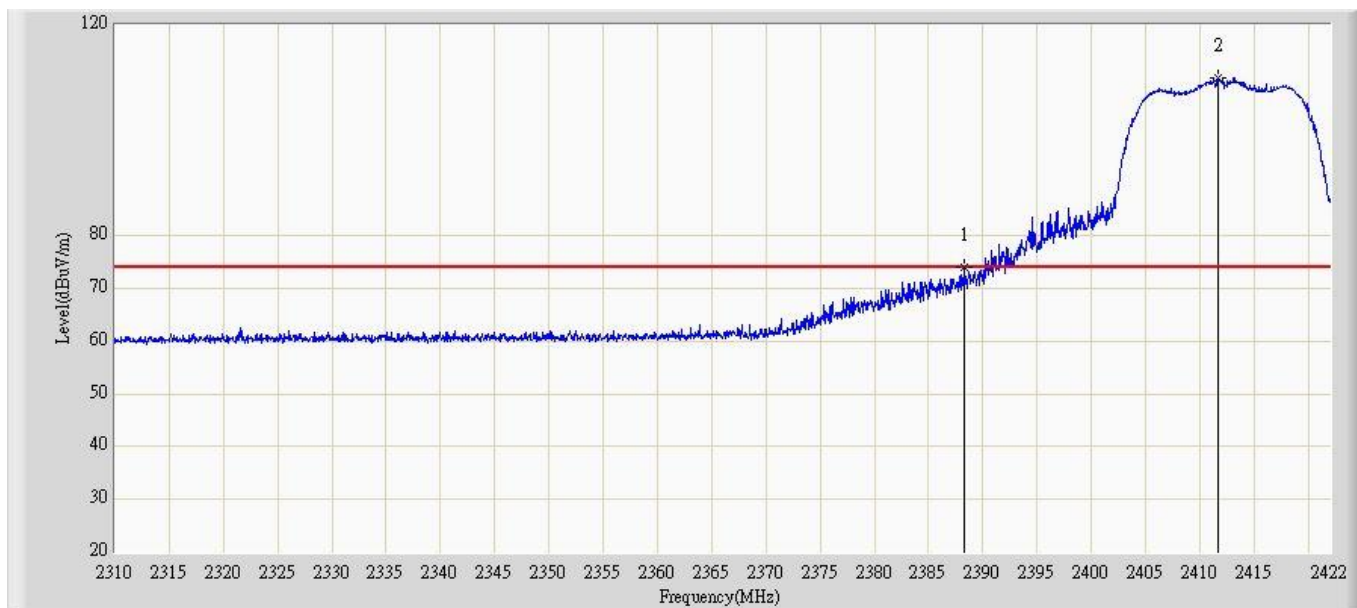
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2461.912	106.361	69.024	N/A	N/A	37.337	PK
2			2483.500	61.732	24.291	-12.277	74.000	37.441	PK

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 13:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 1: Transmit at CH11 by 802.11b ant0	



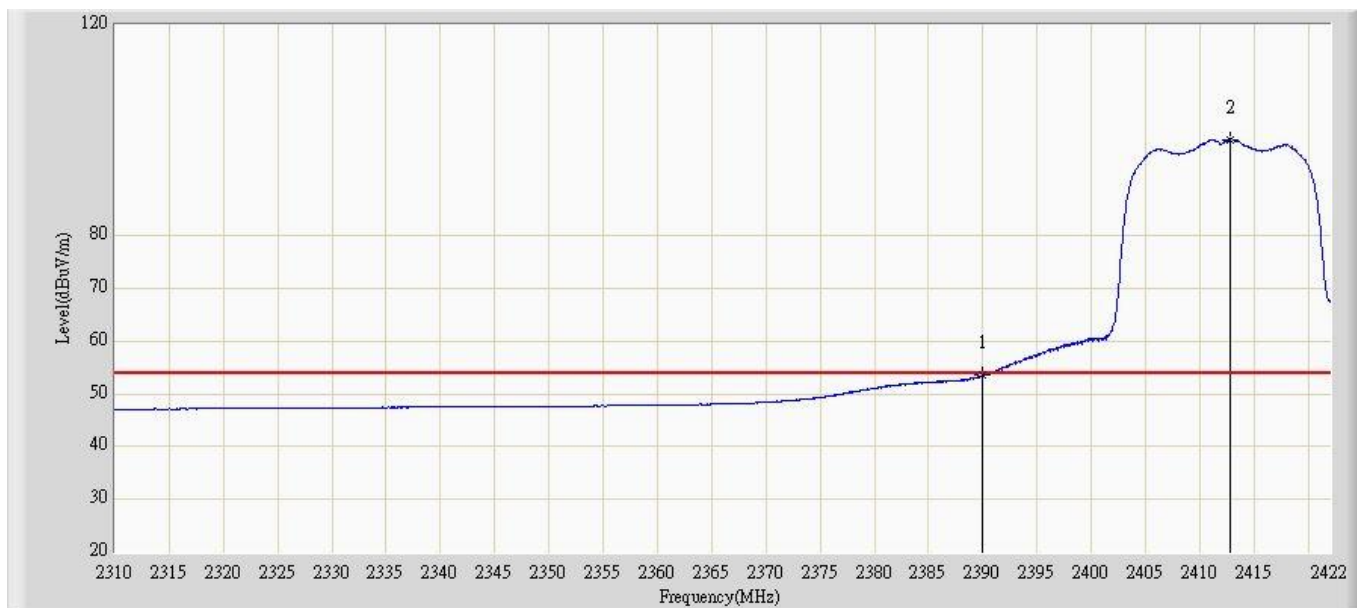
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2462.728	102.515	65.174	N/A	N/A	37.341	AV
2			2483.500	49.335	11.894	-4.665	54.000	37.441	AV

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 13:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 2: Transmit at CH1 by 802.11g ant0	



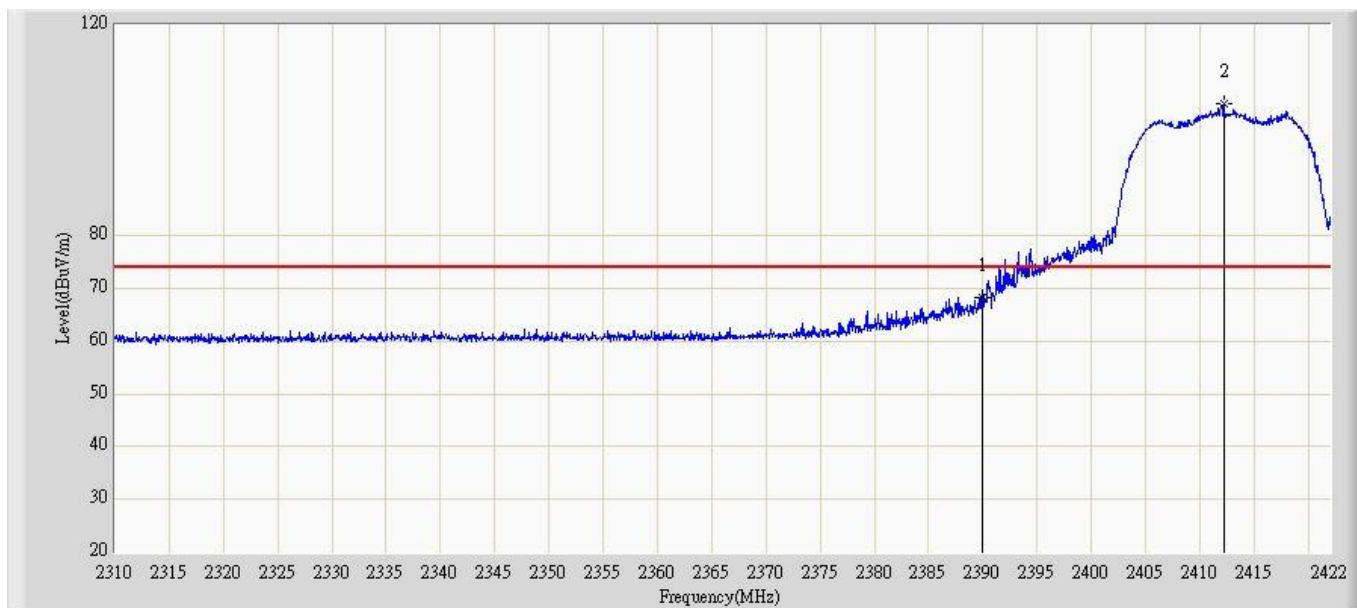
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2388.344	73.881	36.248	-0.119	74.000	37.633	PK
2		*	2411.752	109.953	72.110	N/A	N/A	37.843	PK

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 13:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 2: Transmit at CH1 by 802.11g ant0	



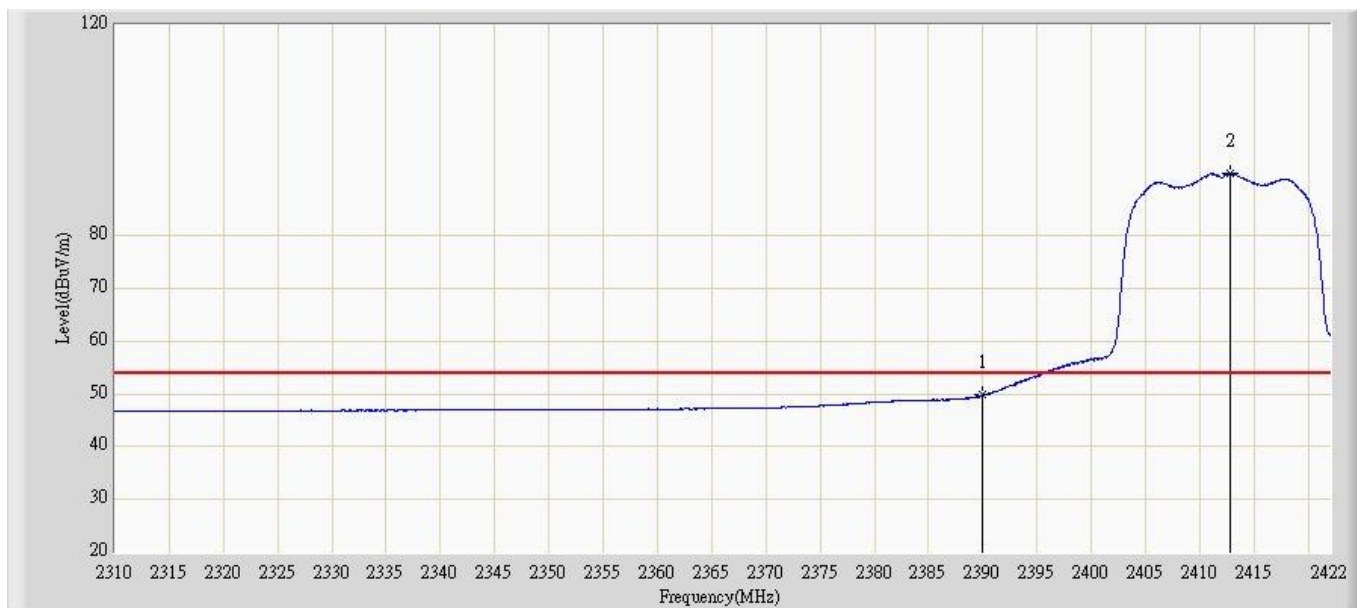
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	53.489	15.842	-0.511	54.000	37.648	AV
2		*	2412.872	98.134	60.281	N/A	N/A	37.852	AV

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 14:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 2: Transmit at CH1 by 802.11g ant0	



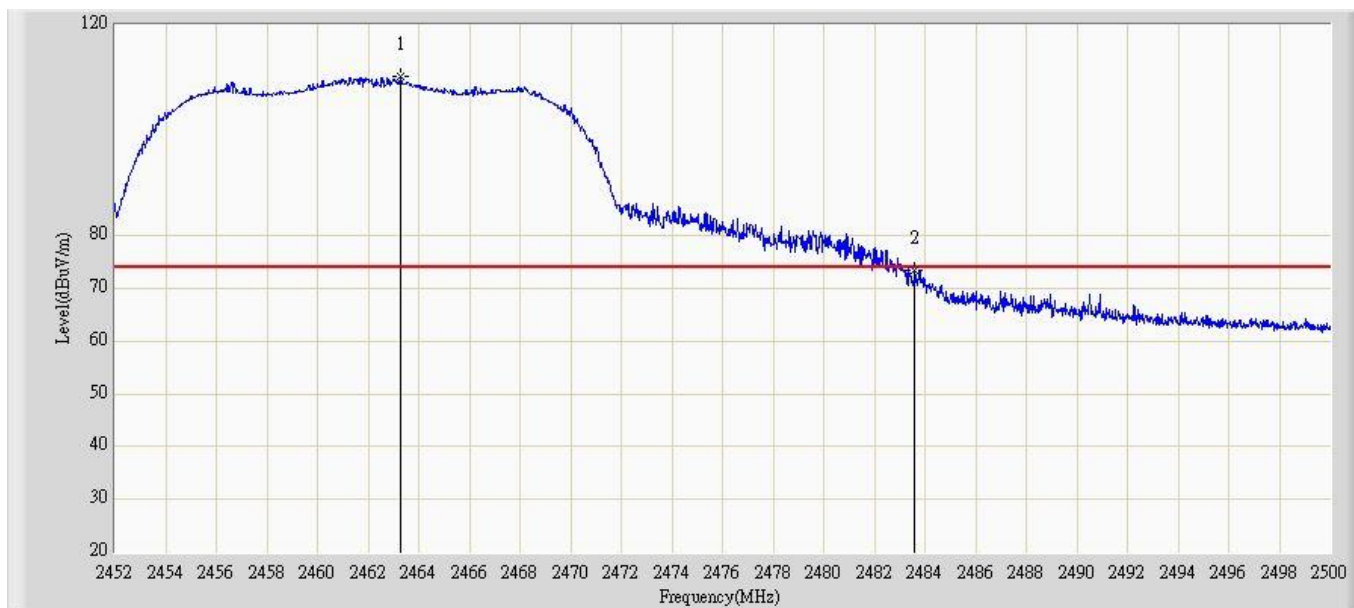
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	68.205	31.218	-5.795	74.000	36.988	PK
2		*	2412.200	105.033	67.935	N/A	N/A	37.097	PK

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 14:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 2: Transmit at CH1 by 802.11g ant0	



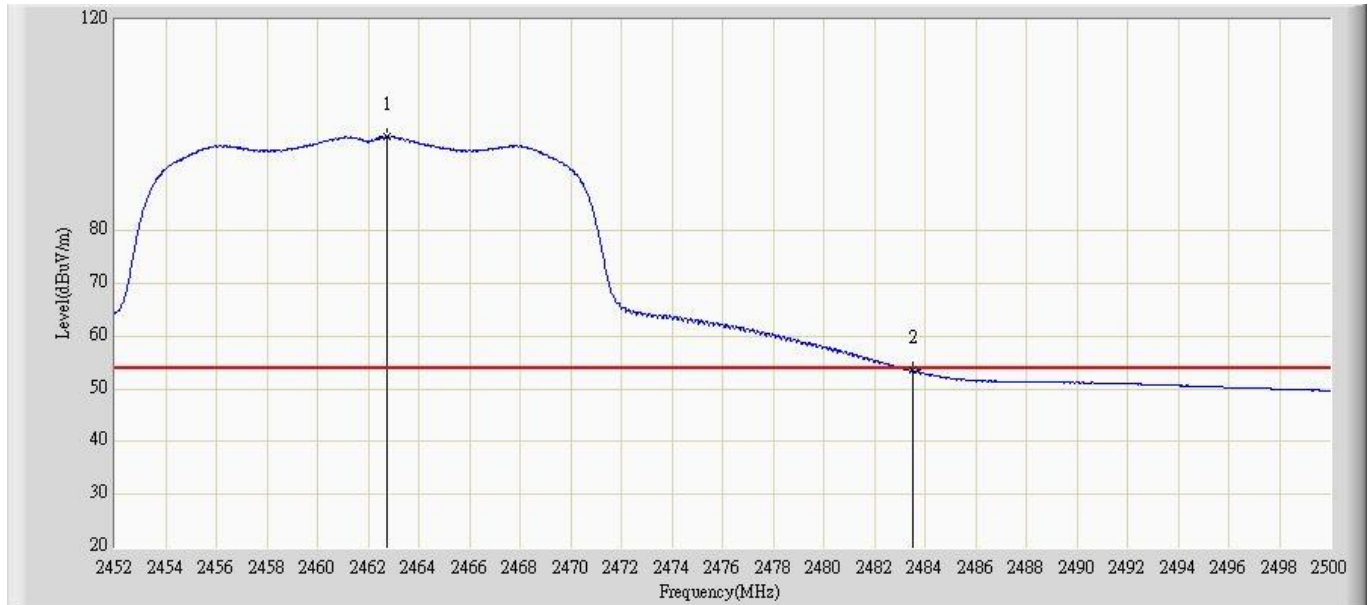
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390.000	49.758	12.771	-4.242	54.000	36.988	AV
2		*	2412.760	91.896	54.796	N/A	N/A	37.100	AV

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 14:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 2: Transmit at CH11 by 802.11g ant0	



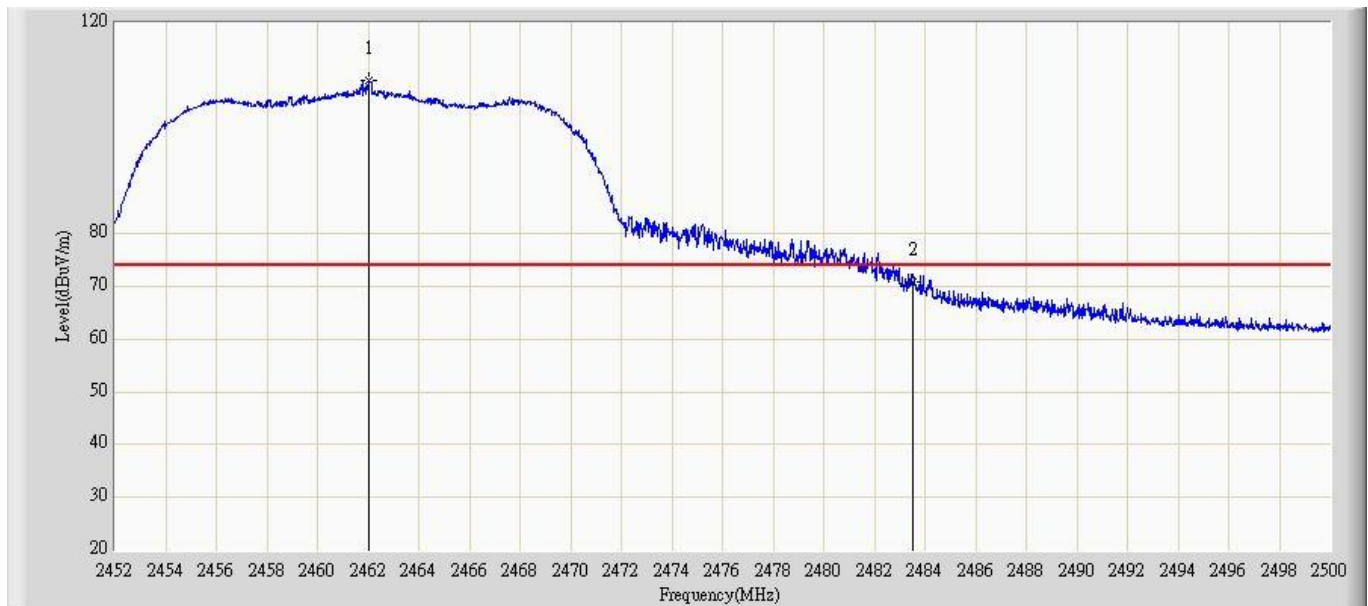
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2463.256	110.094	71.798	N/A	N/A	38.297	PK
2			2483.608	73.326	34.850	-0.674	74.000	38.476	PK

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 14:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Horizontal
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 2: Transmit at CH11 by 802.11g ant0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2462.728	97.817	59.526	N/A	N/A	38.292	AV
2			2483.500	53.559	15.084	-0.441	54.000	38.475	AV

Engineer: Cloud	
Site: AC5	Time: 2014/01/25 - 14:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_988(1-18GHz)	Polarity: Vertical
EUT: IP-STB	Power: 120V/60Hz
Note: Mode 2: Transmit at CH11 by 802.11g ant0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2462.032	109.000	71.663	N/A	N/A	37.337	PK
2			2483.500	70.822	33.381	-3.178	74.000	37.441	PK