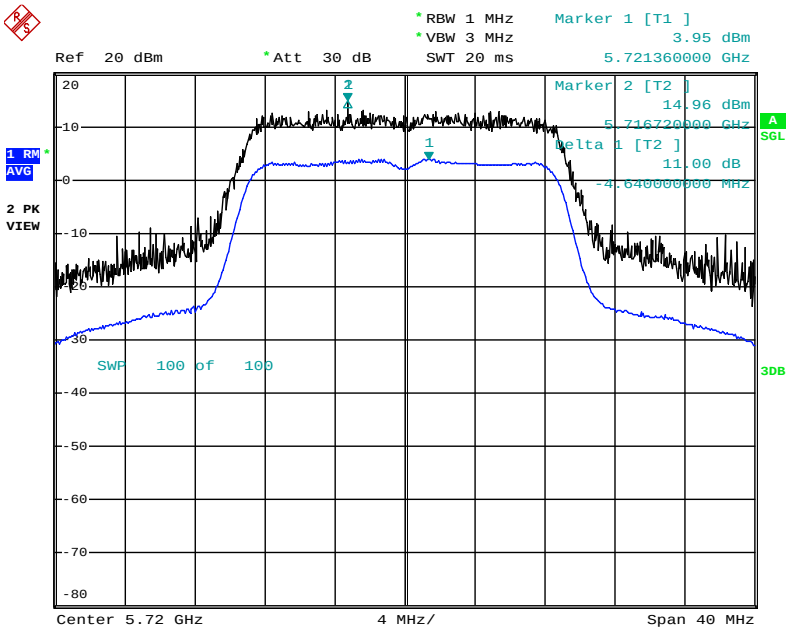
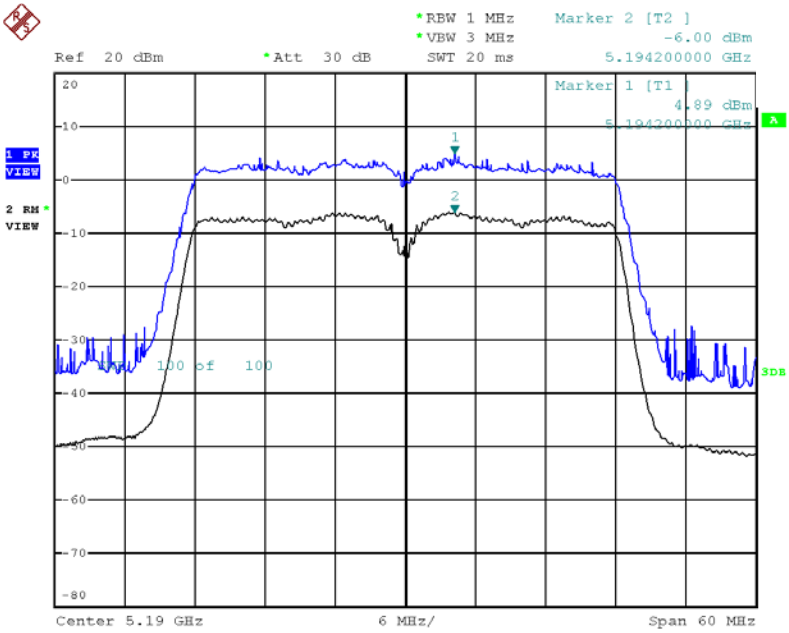
Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5720 MHz



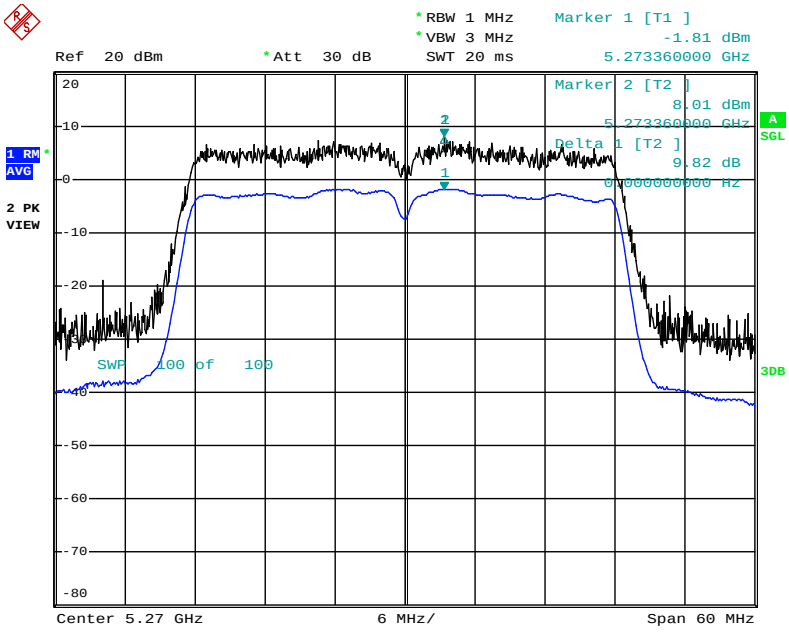
Date: 22.AUG.2013 22:49:28

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5190 MHz



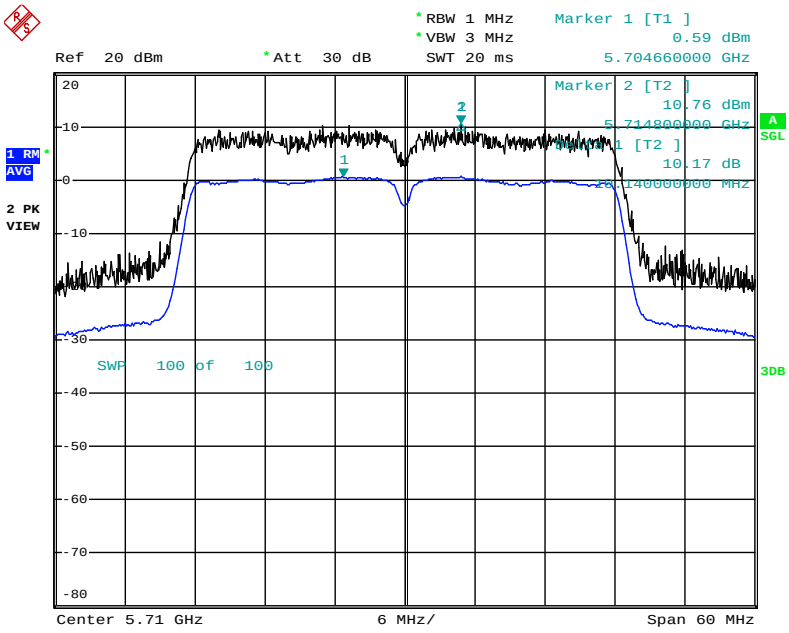
Date: 6.AUG.2013 17:35:46

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / BPSK (MCS0) / 5270 MHz



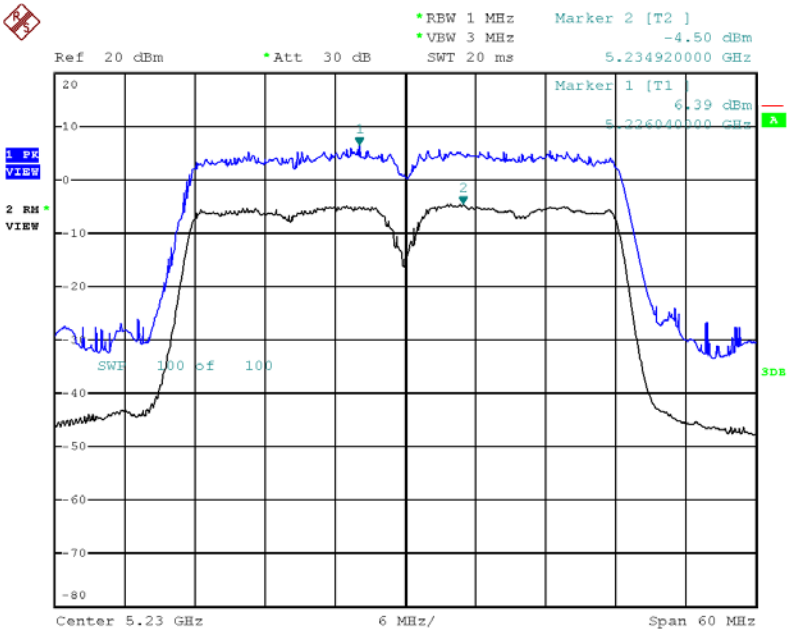
Date: 10.AUG.2013 08:07:43

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / BPSK (MCS0) / 5710 MHz



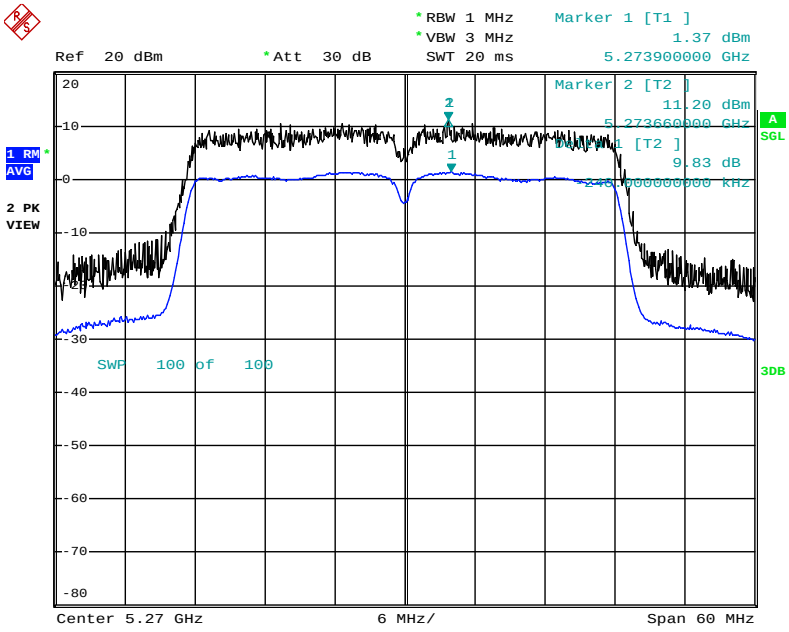
Date: 22.AUG.2013 22:20:52

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5230 MHz



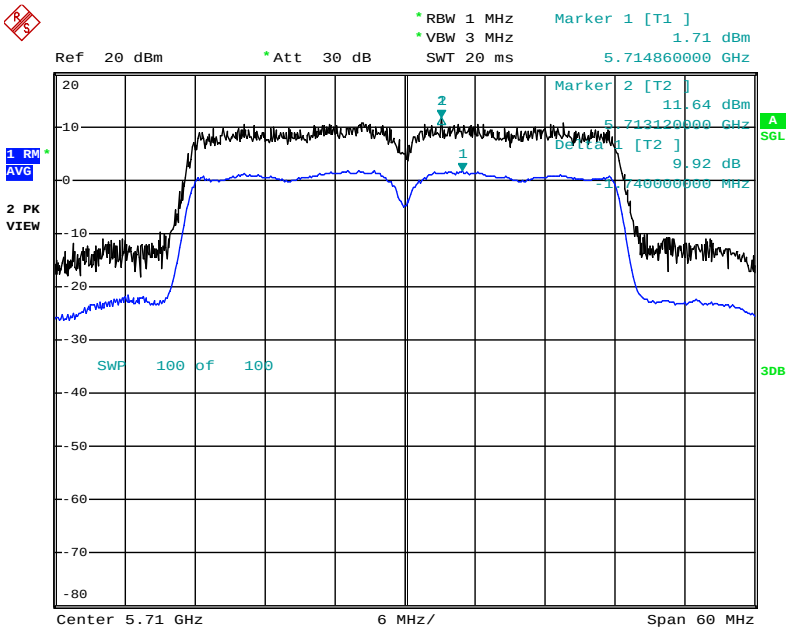
Date: 6.AUG.2013 17:49:00

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / BPSK (MCS0) / 5270 MHz



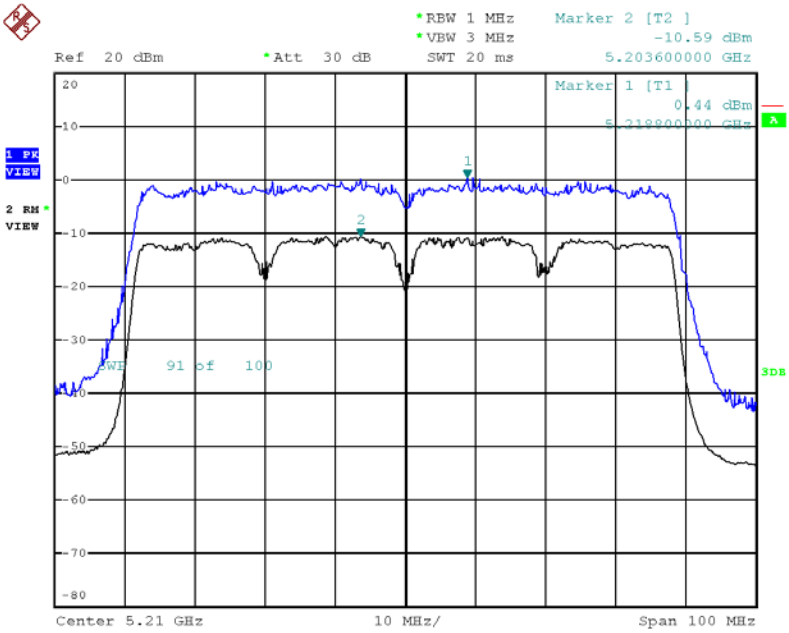
Date: 10.AUG.2013 08:06:41

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 16QAM (MCS3) / 5710 MHz



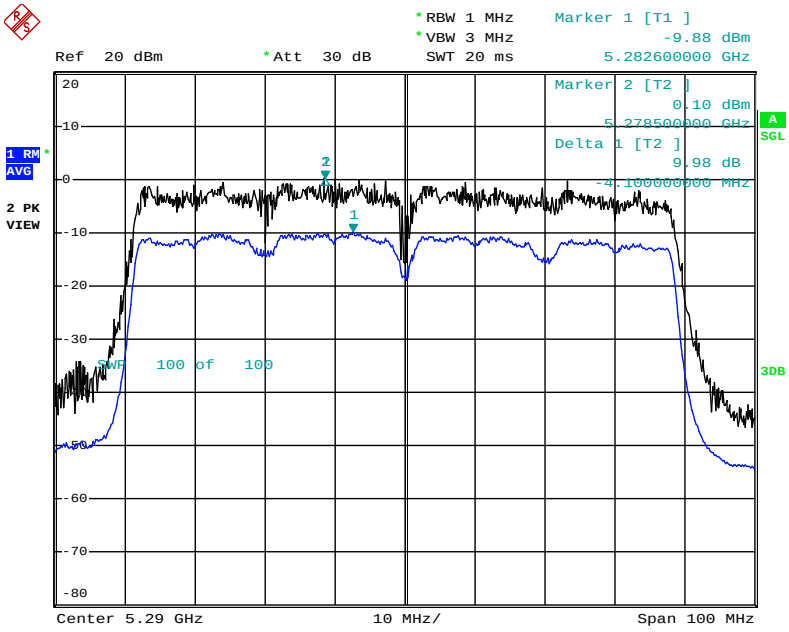
Date: 22.AUG.2013 22:44:39

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5210 MHz



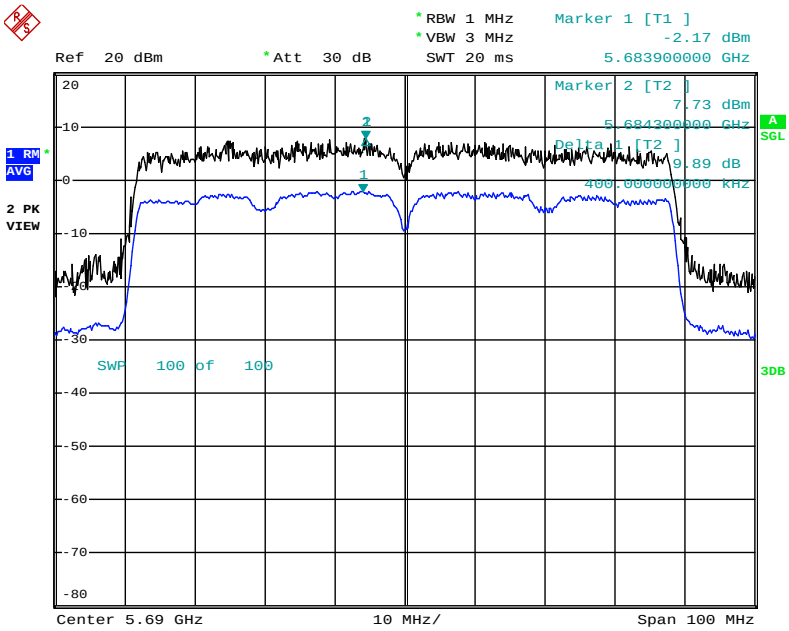
Date: 6.AUG.2013 17:38:51

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5290 MHz



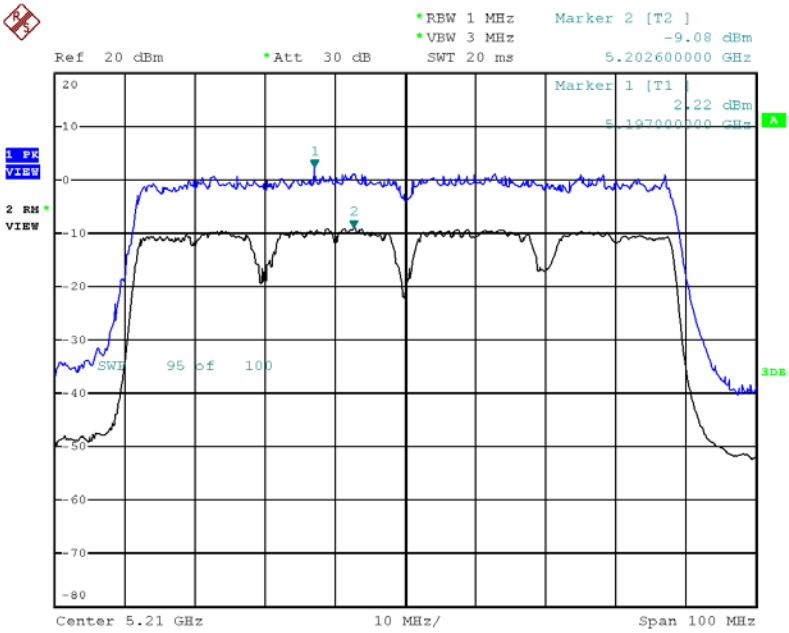
Date: 10.AUG.2013 08:20:33

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5690 MHz



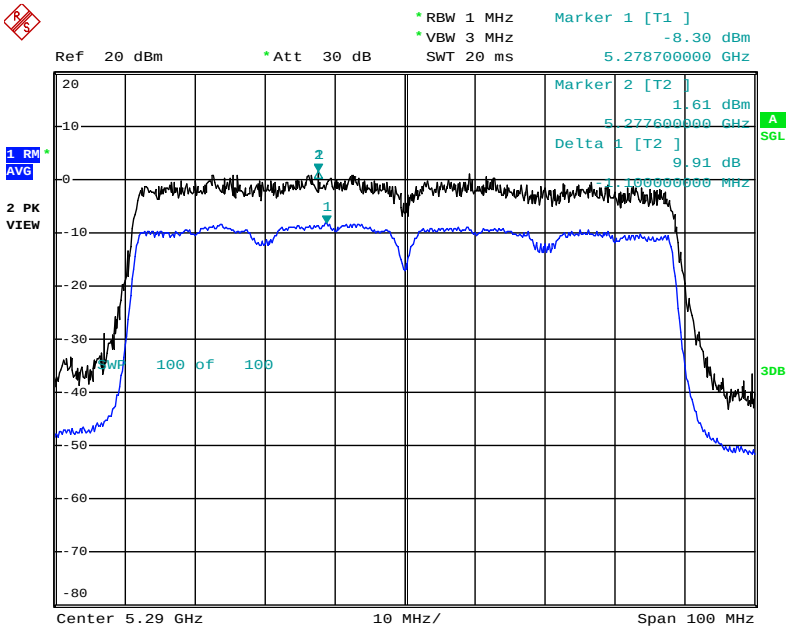
Date: 22.AUG.2013 22:34:15

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5210 MHz



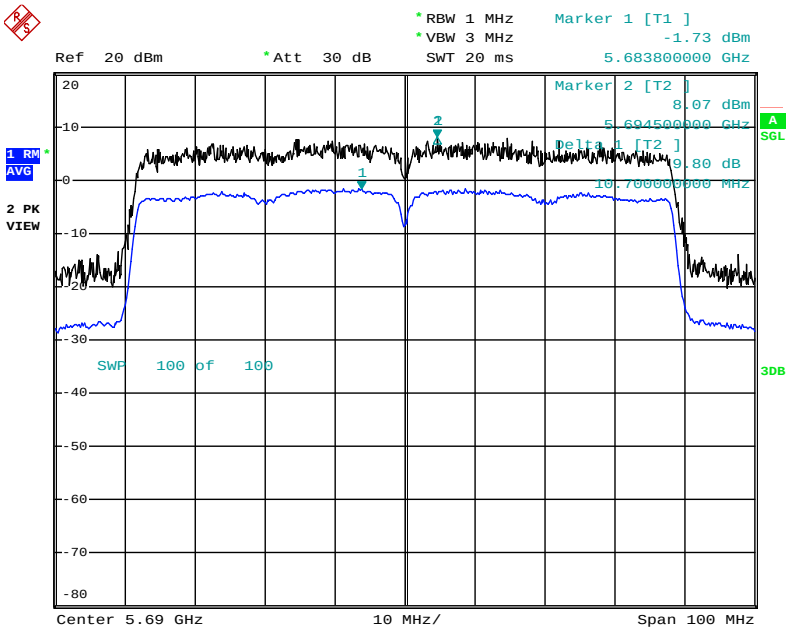
Date: 6.AUG.2013 17:52:51

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 16QAM (MCS3) / 5290 MHz



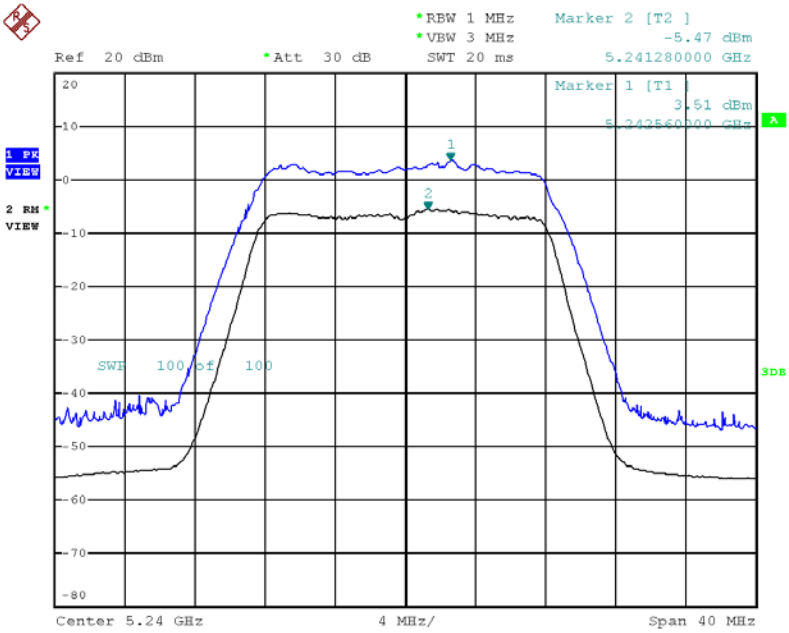
Date: 10.AUG.2013 08:24:24

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / BPSK (MCS0) / 5690 MHz



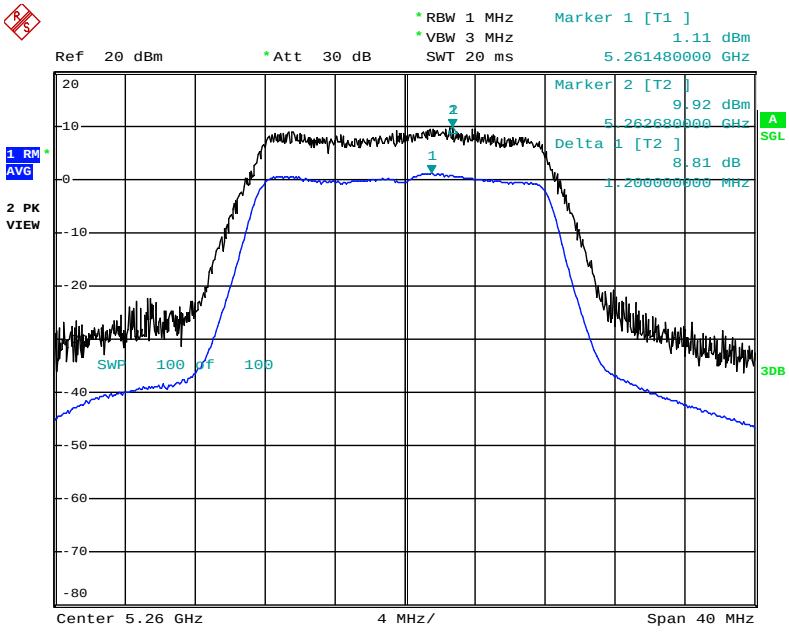
Date: 22.AUG.2013 22:36:02

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 16QAM (24Mbps) / 5240 MHz



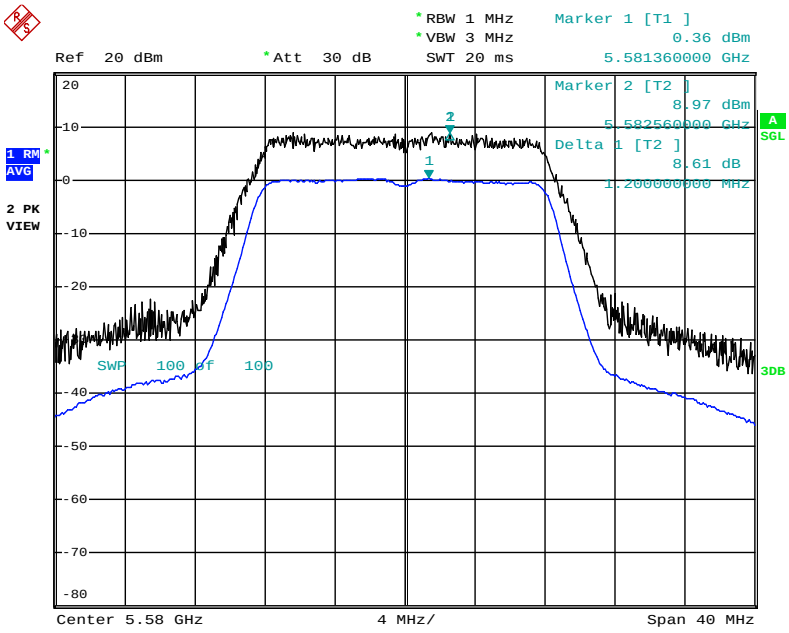
Date: 6.AUG.2013 17:29:11

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 16QAM (24Mbps) / 5260 MHz



Date: 10.AUG.2013 07:31:56

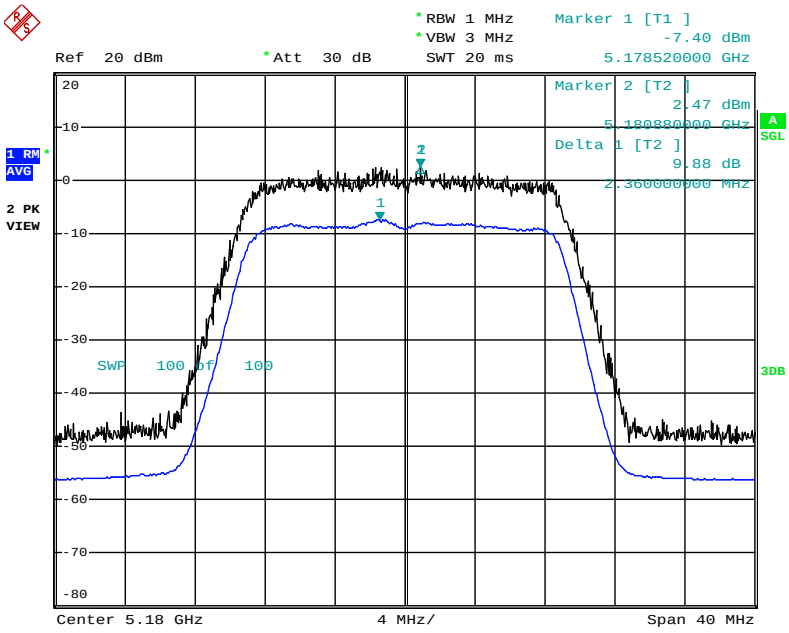
Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 16QAM (24Mbps) / 5580 MHz



Date: 10.AUG.2013 07:33:41

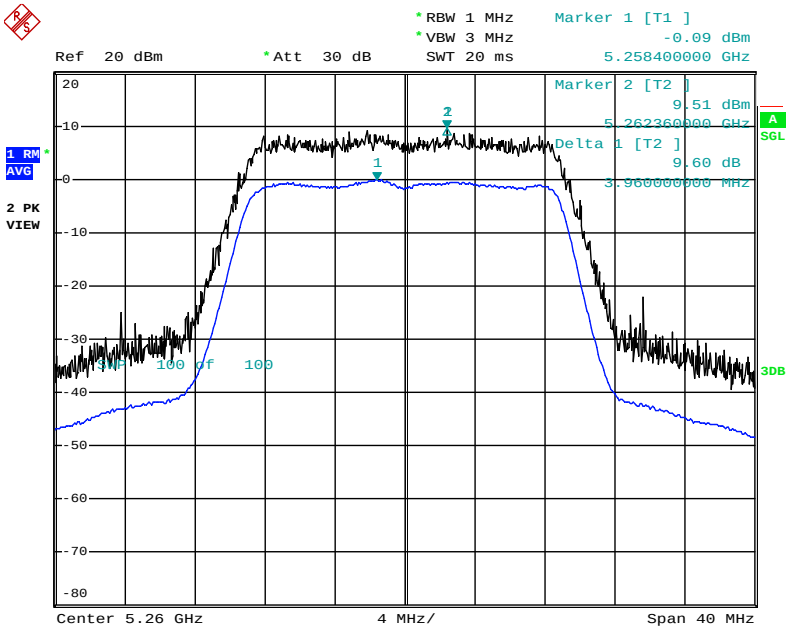
Test Mode: Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5180 MHz



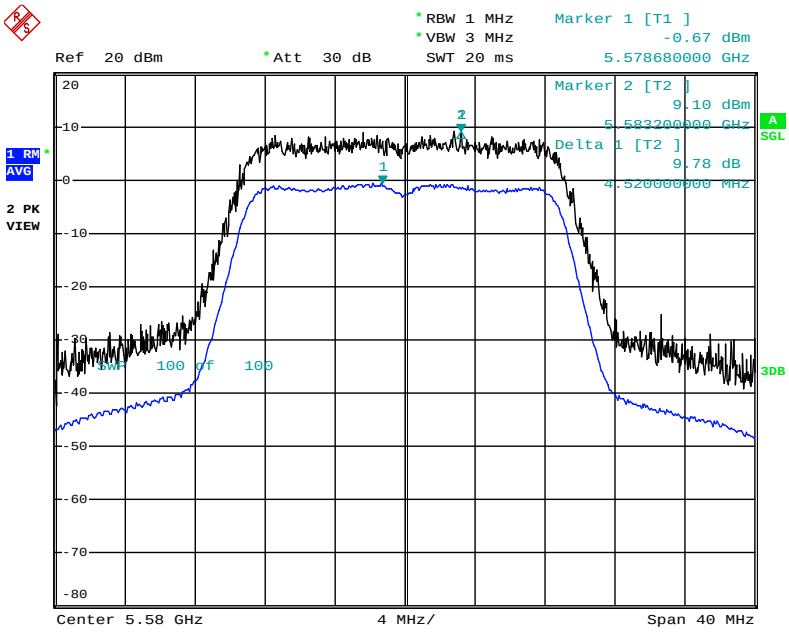
Date: 6.AUG.2013 14:41:09

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 16QAM (MCS3) / 5260 MHz



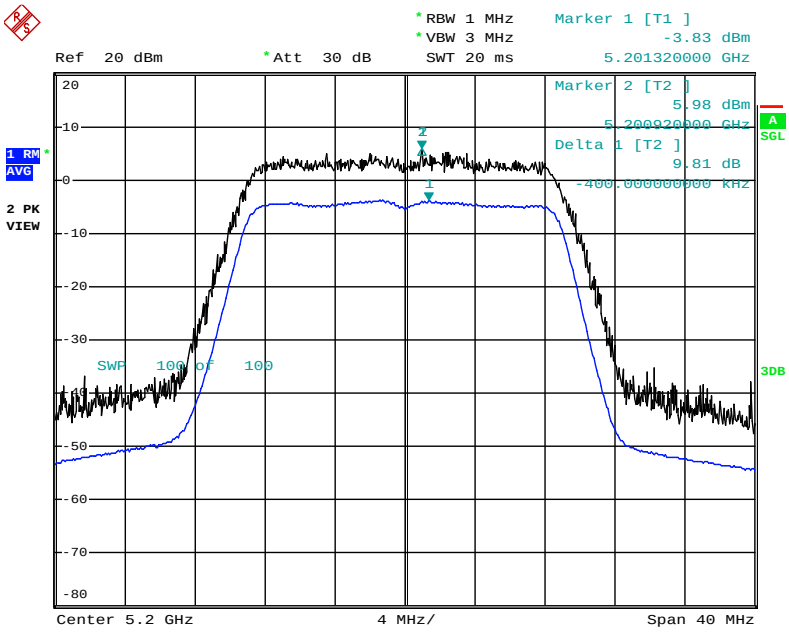
Date: 9.AUG.2013 17:04:41

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5580 MHz



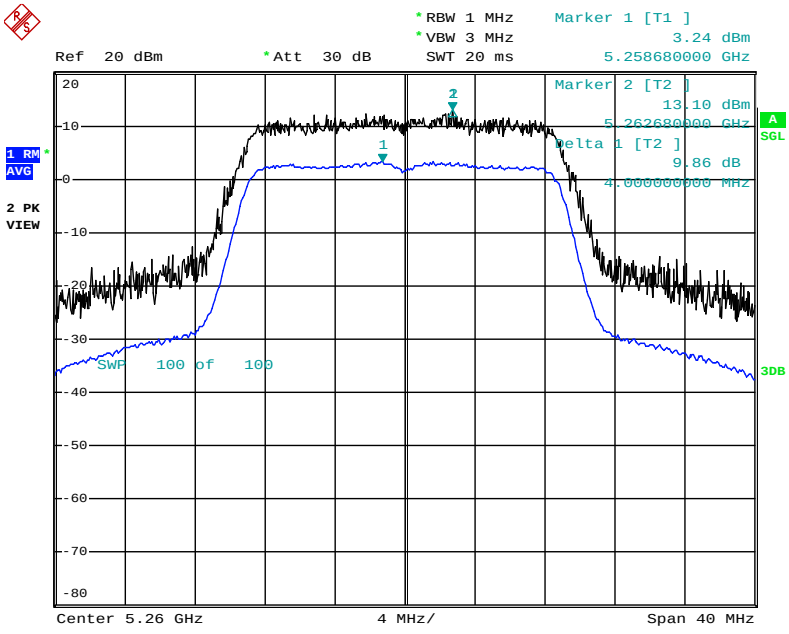
Date: 9.AUG.2013 17:06:47

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / QPSK (MCS1) / 5200 MHz



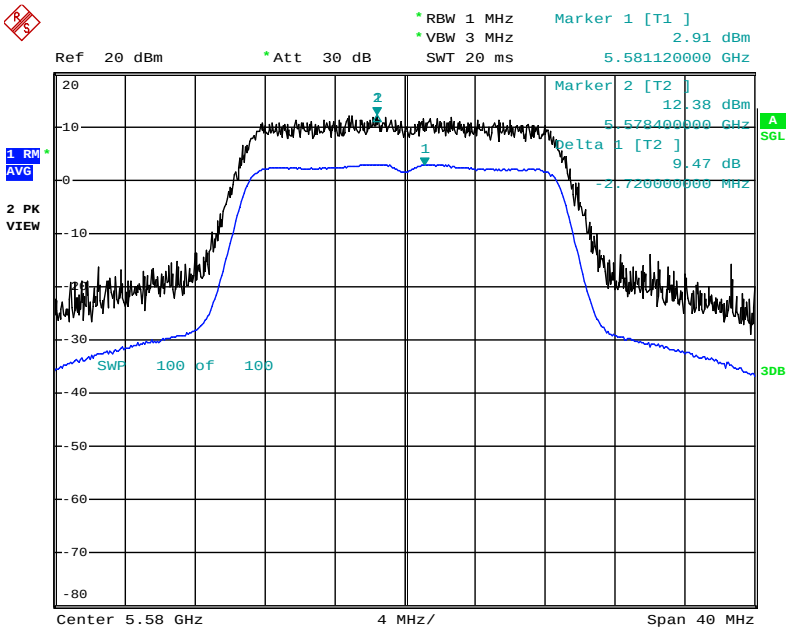
Date: 6.AUG.2013 15:14:35

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 16QAM (MCS3) / 5260 MHz

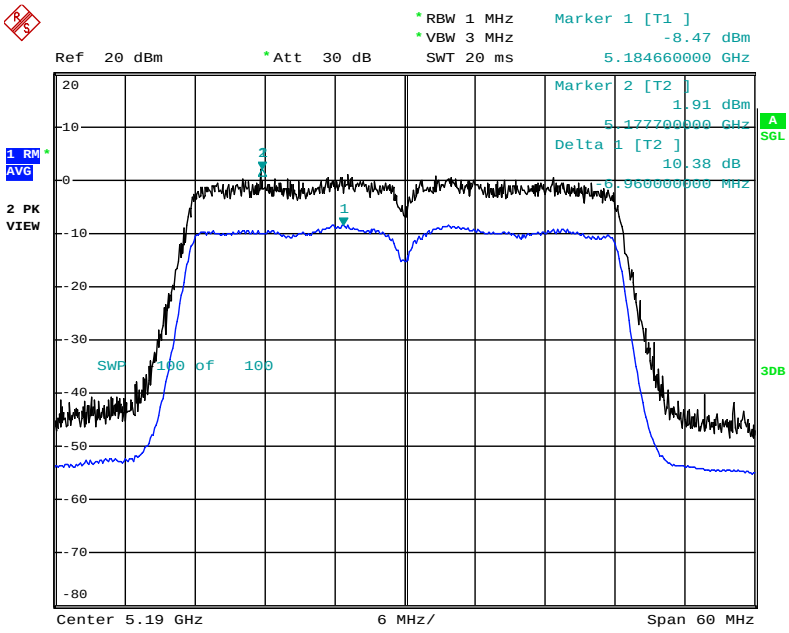


Date: 9.AUG.2013 17:13:50

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / BPSK (MCS0) / 5580 MHz

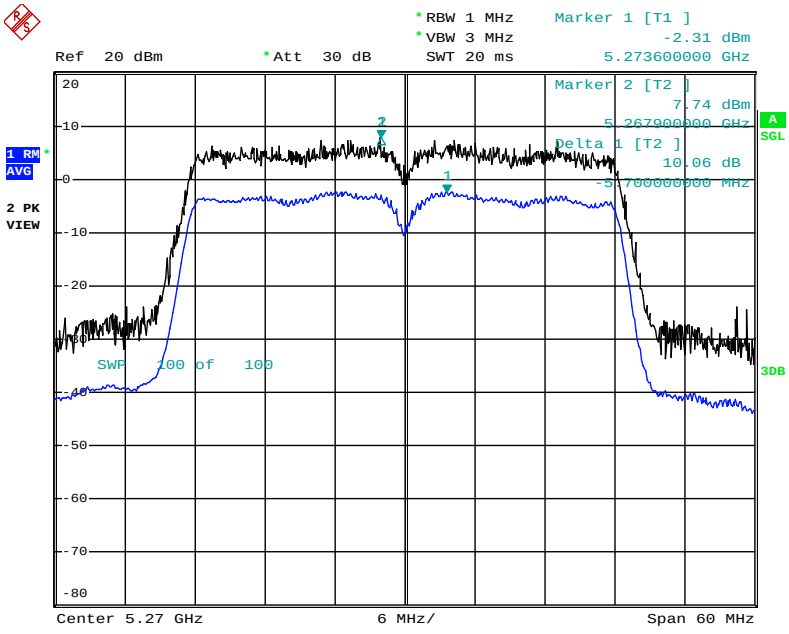


Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5190 MHz



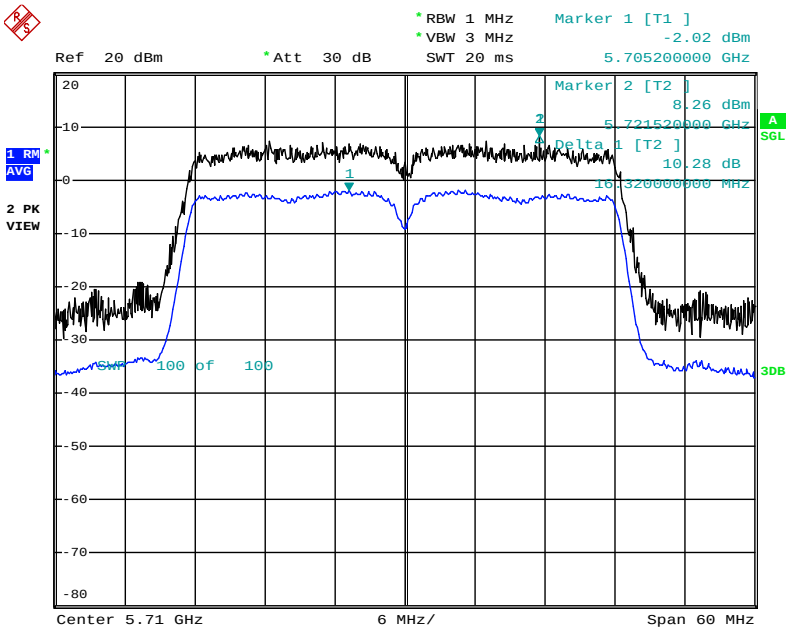
Date: 6.AUG.2013 14:42:26

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5270 MHz



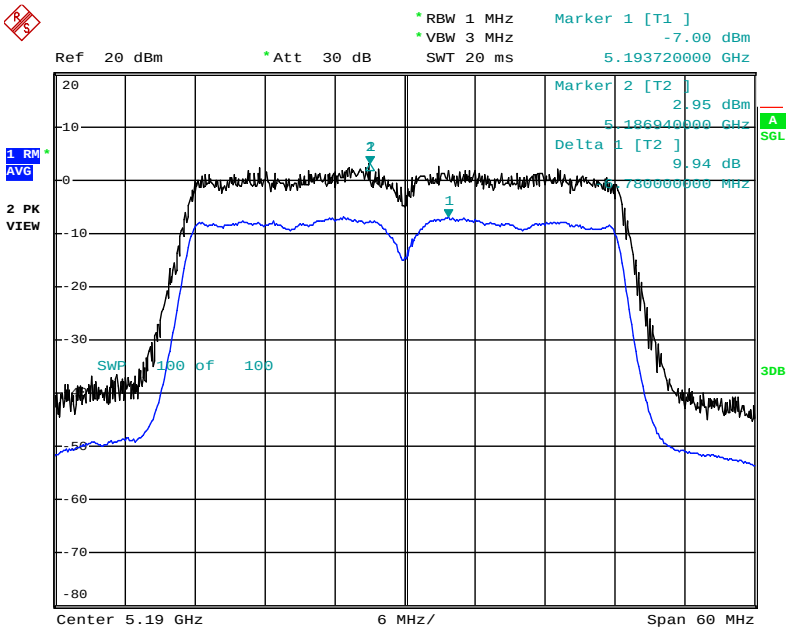
Date: 9.AUG.2013 17:27:22

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5710 MHz



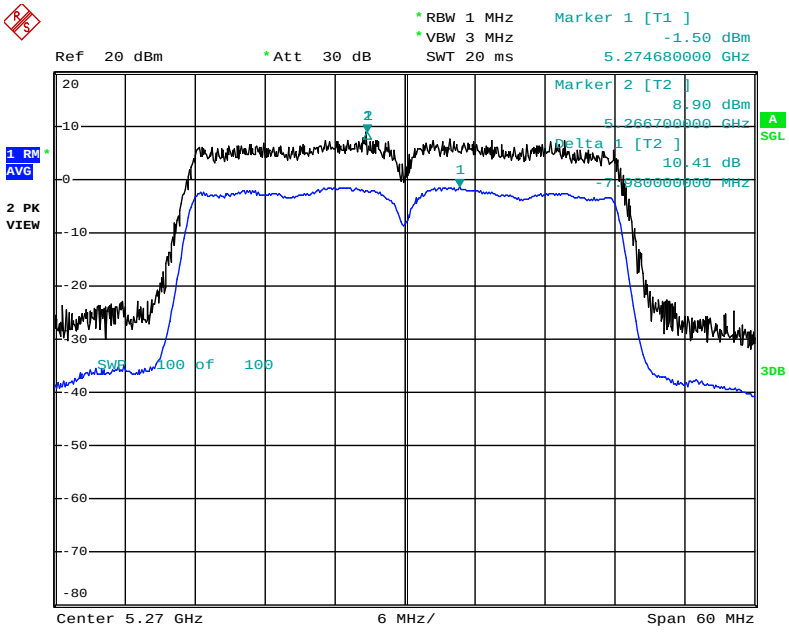
Date: 22.AUG.2013 21:48:24

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5190 MHz



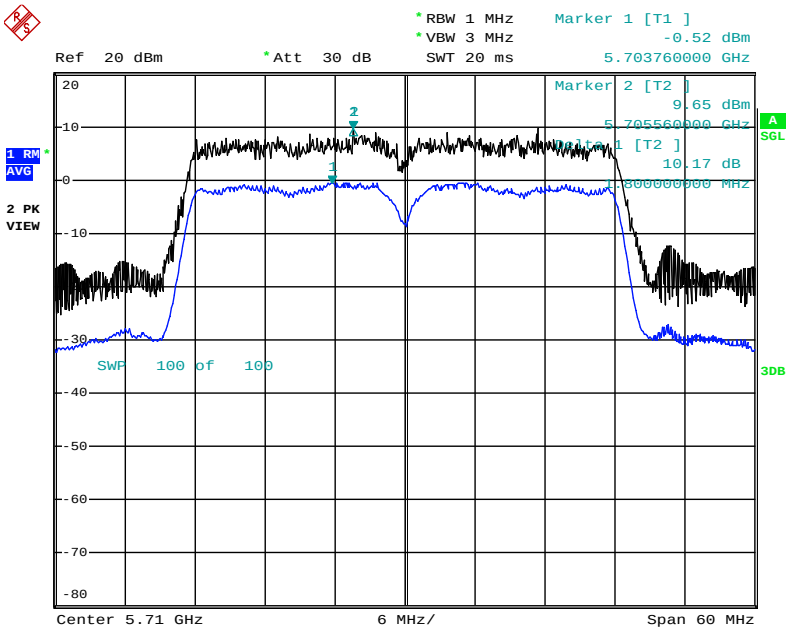
Date: 6.AUG.2013 15:12:40

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 16QAM (MCS3) / 5270 MHz



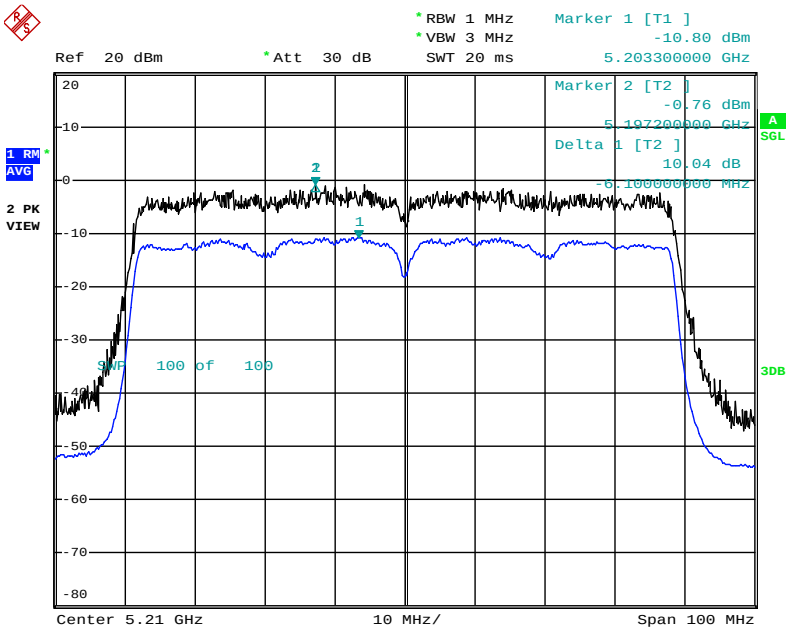
Date: 9.AUG.2013 17:17:04

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5710 MHz



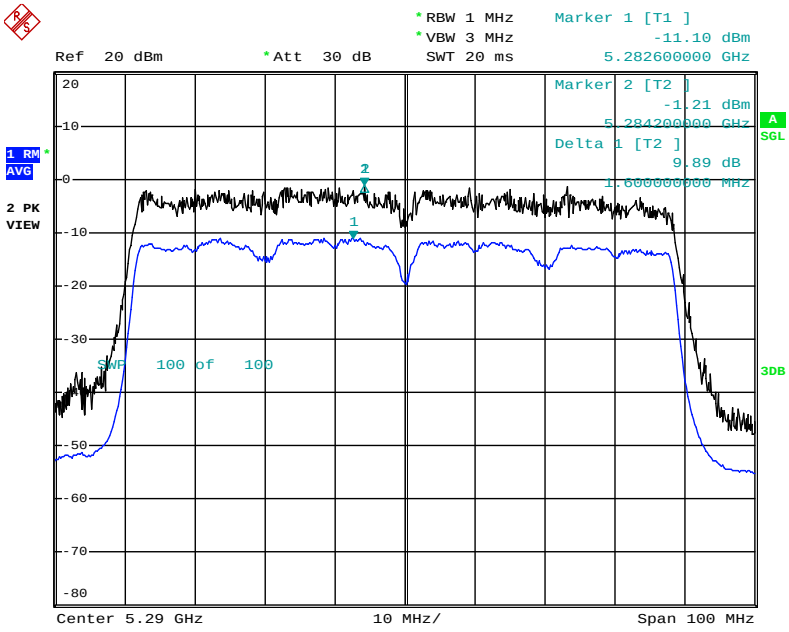
Date: 22.AUG.2013 22:12:54

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5210 MHz



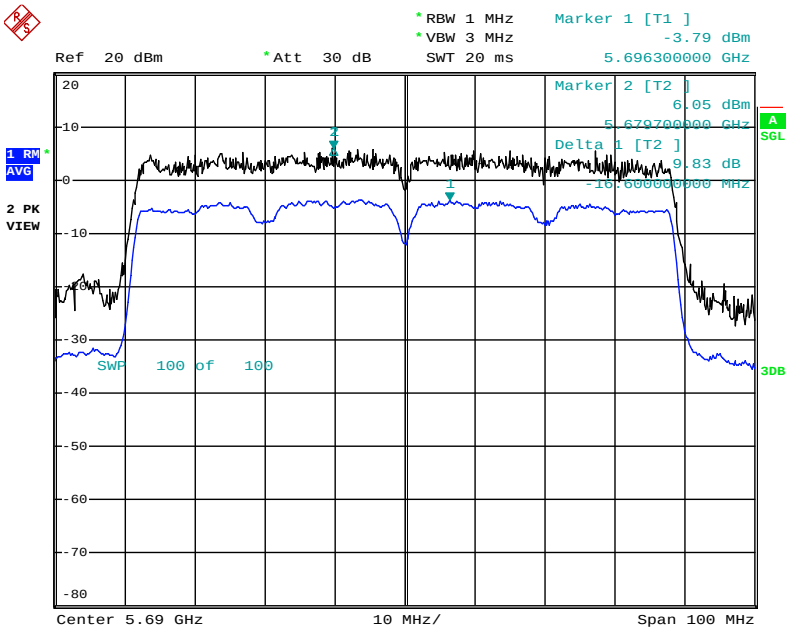
Date: 6.AUG.2013 14:47:19

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5290 MHz



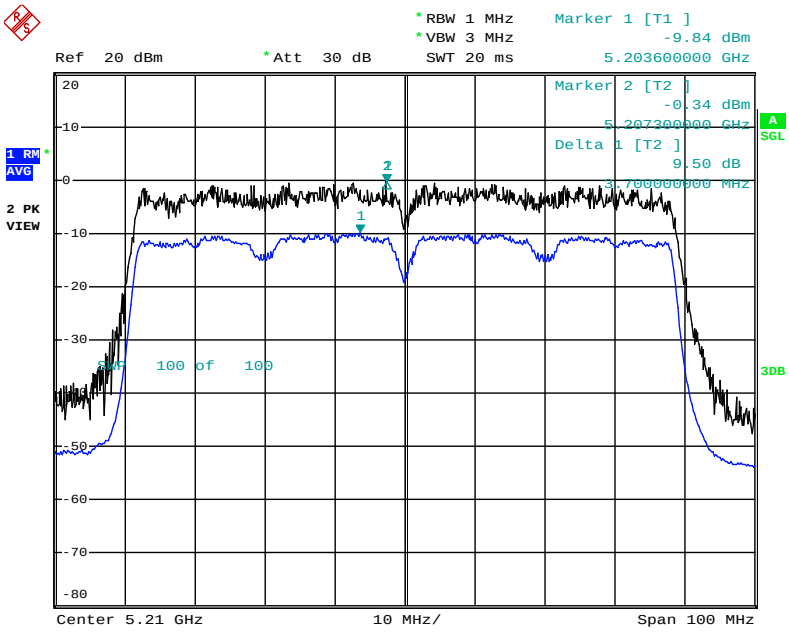
Date: 9.AUG.2013 17:32:30

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5690 MHz



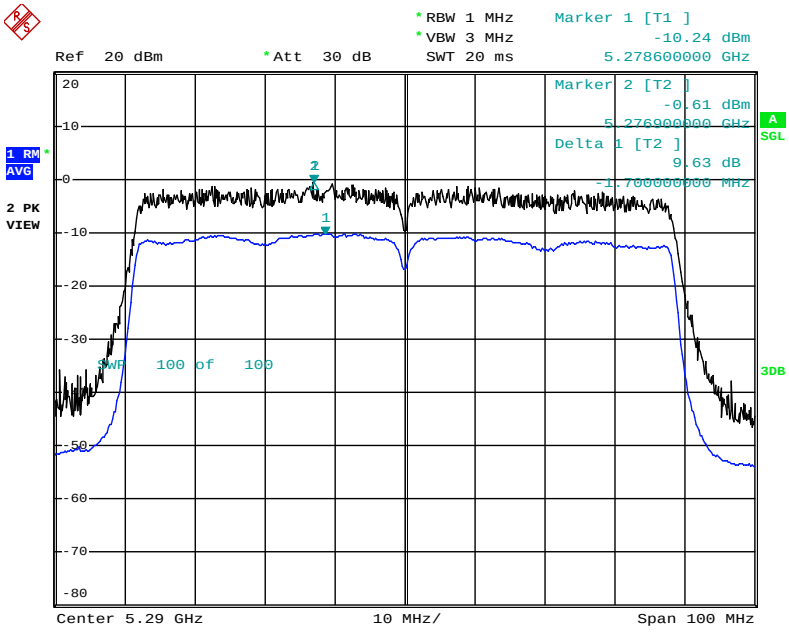
Date: 22.AUG.2013 21:57:03

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5210 MHz



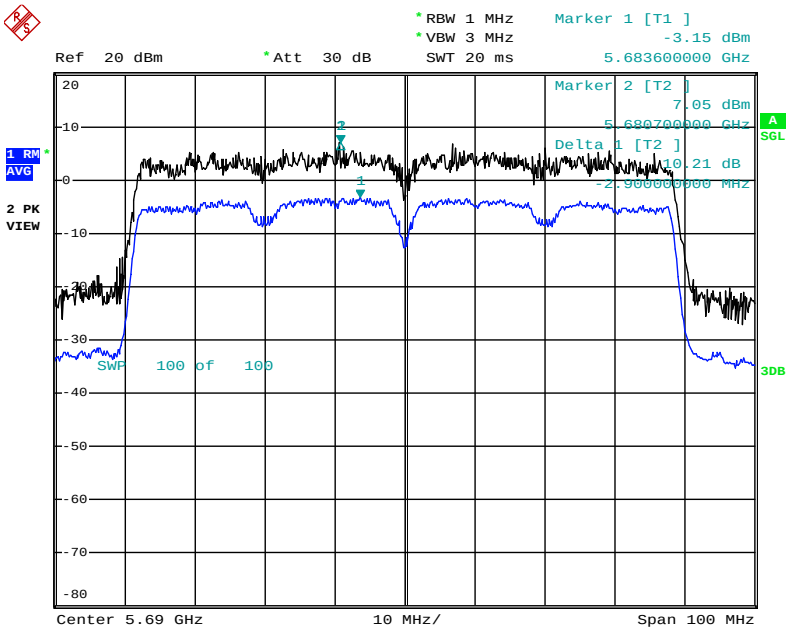
Date: 6.AUG.2013 15:08:47

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / BPSK (MCS0) / 5290 MHz



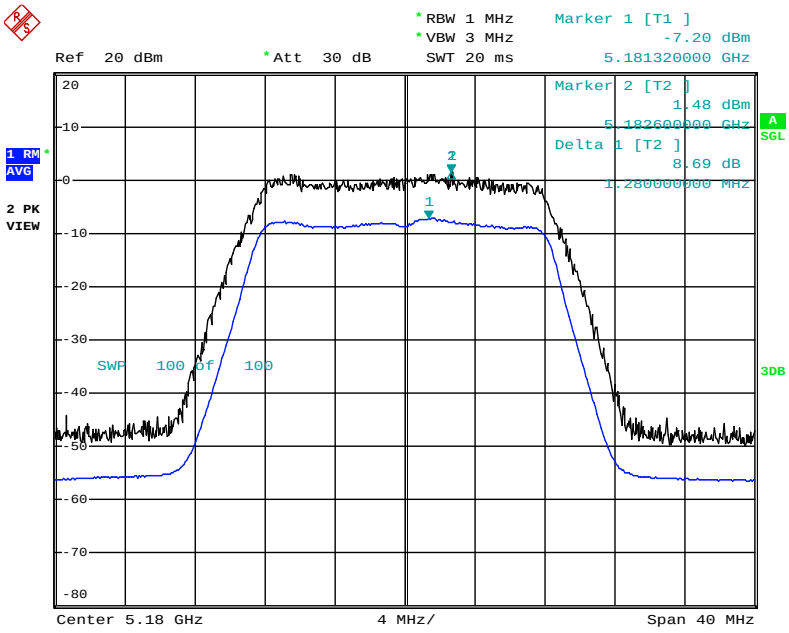
Date: 9.AUG.2013 17:48:38

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5690 MHz



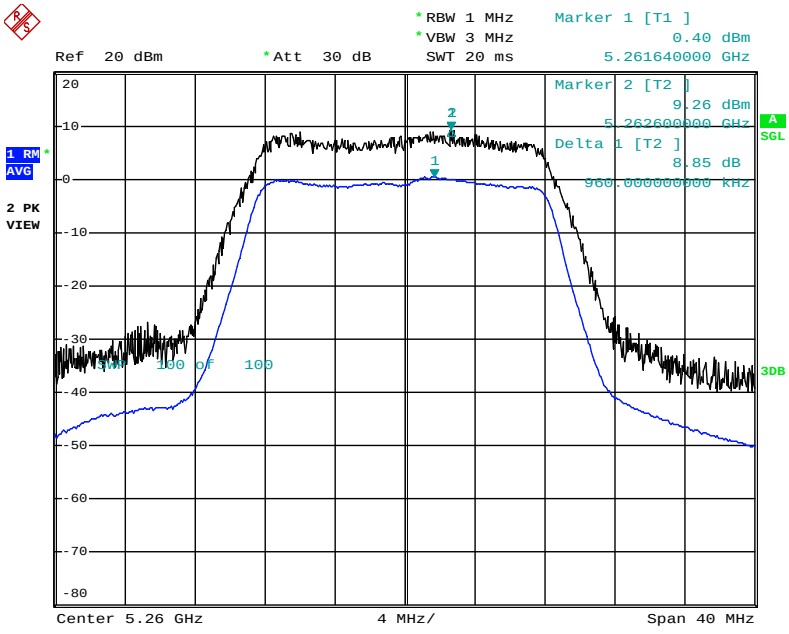
Date: 22.AUG.2013 22:06:13

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 16QAM (24Mbps) / 5180 MHz



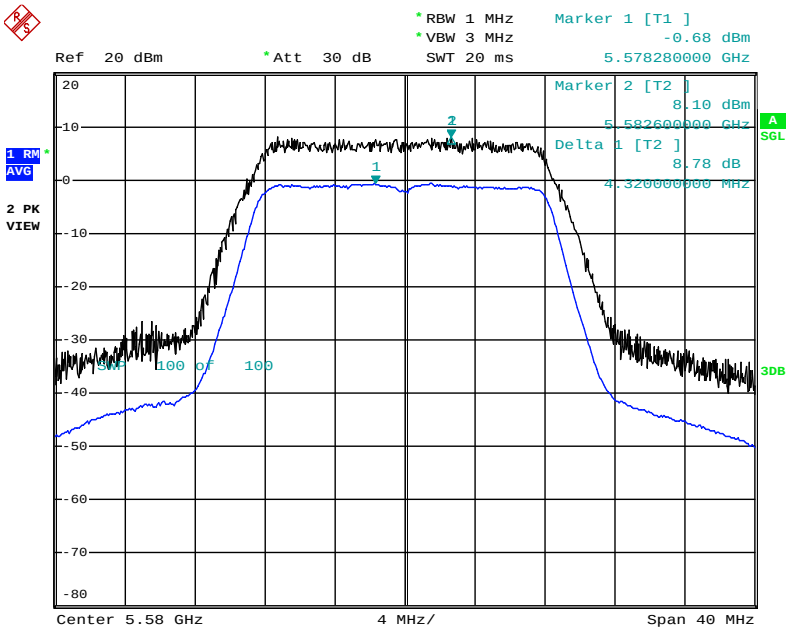
Date: 6.AUG.2013 14:36:47

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 16QAM (24Mbps) / 5260 MHz



Date: 9.AUG.2013 16:59:28

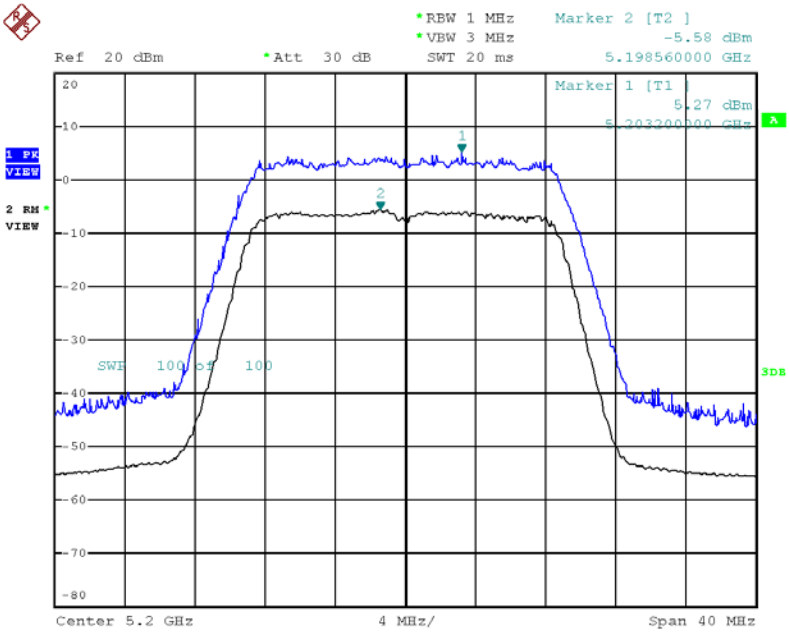
Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 16QAM (24Mbps) / 5580 MHz



Date: 9.AUG.2013 17:01:34

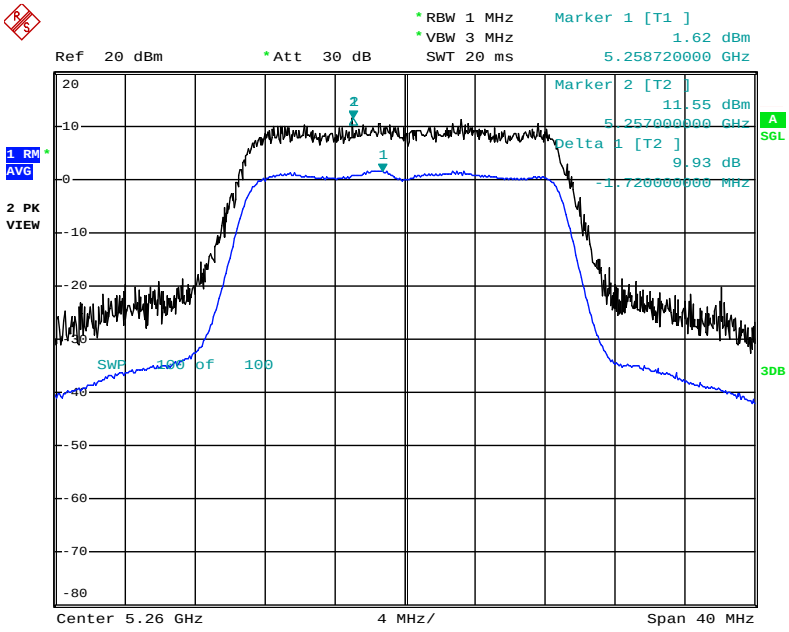
Test Mode: Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5200 MHz



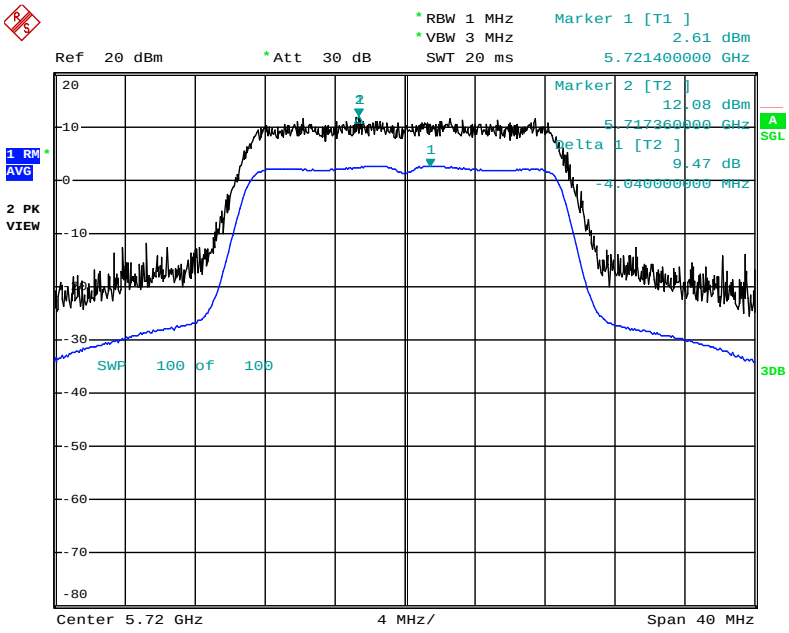
Date: 6.AUG.2013 18:01:23

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5260 MHz



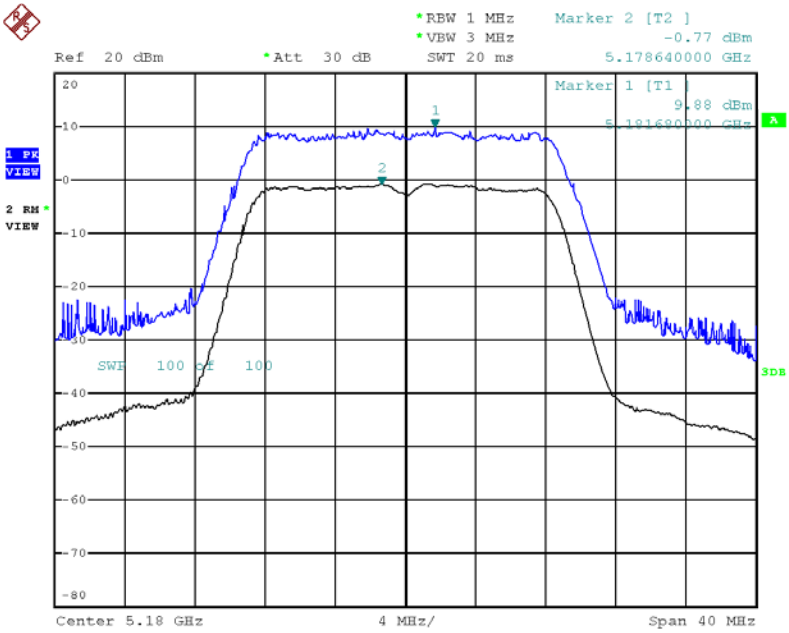
Date: 10.AUG.2013 08:44:24

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / BPSK (MCS0) / 5720 MHz



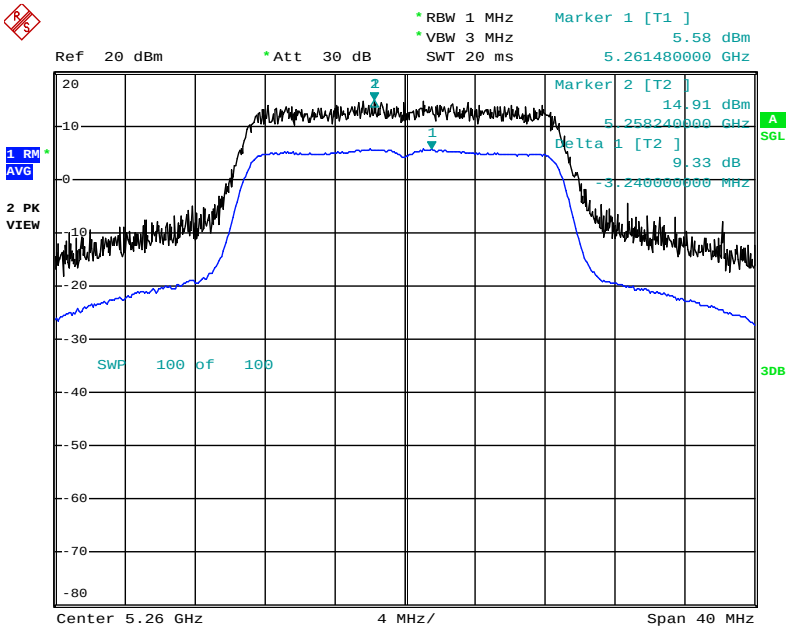
Date: 22.AUG.2013 23:36:39

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5180 MHz



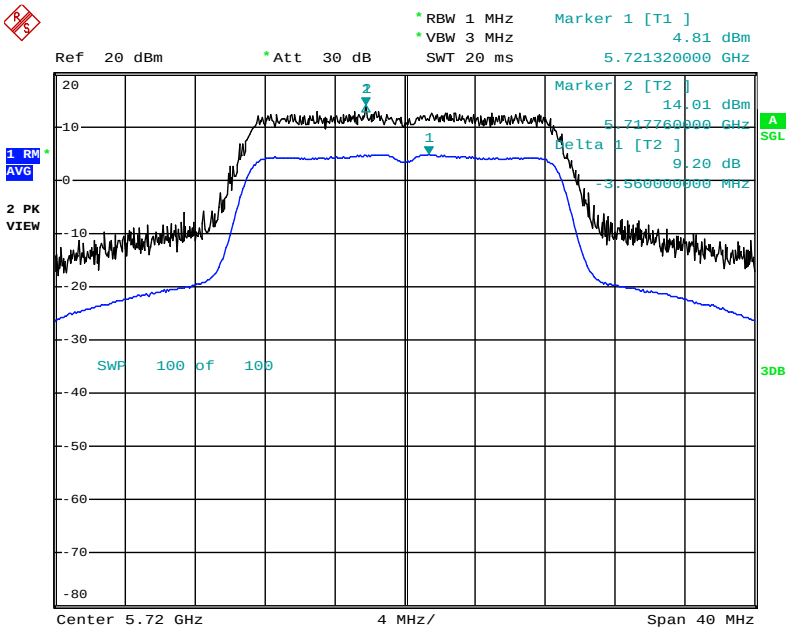
Date: 6.AUG.2013 18:27:07

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / BPSK (MCS0) / 5260 MHz



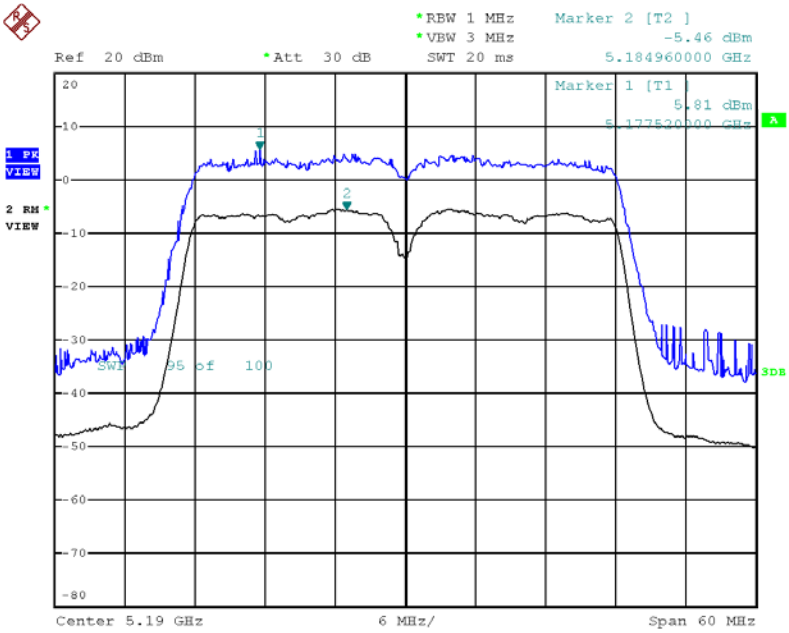
Date: 10.AUG.2013 08:46:42

Peak Excursion Plot on Configuration IEEE 802.11ac 20MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / QPSK (MCS1) / 5720 MHz



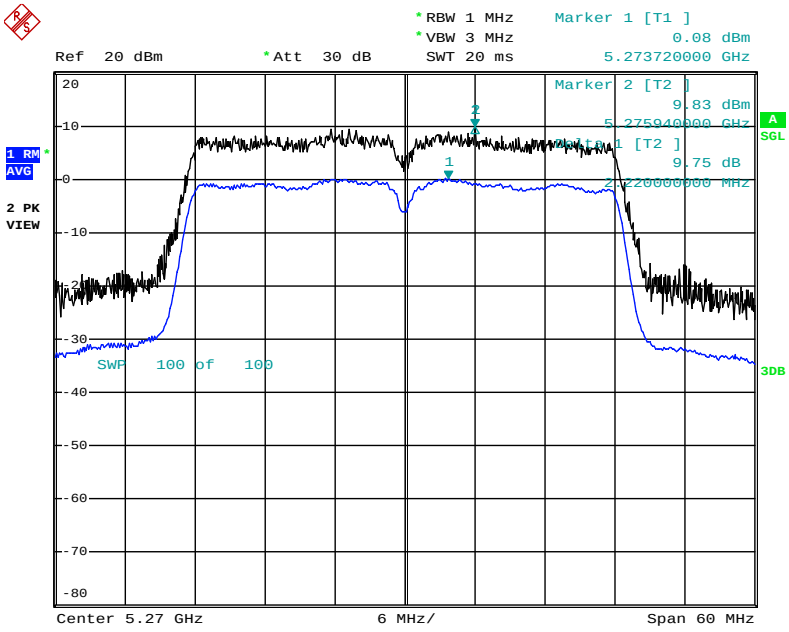
Date: 22.AUG.2013 23:18:32

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5190 MHz



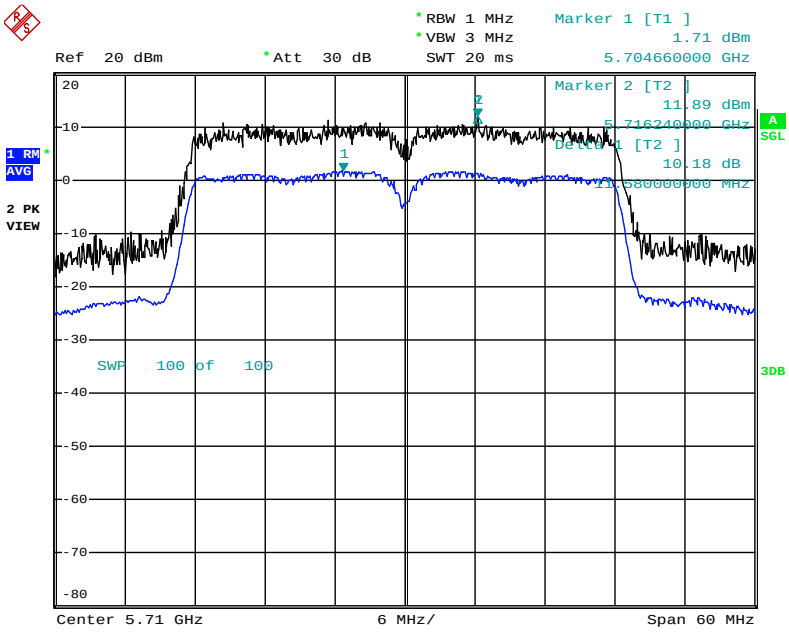
Date: 6.AUG.2013 18:05:09

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 16QAM (MCS3) / 5270 MHz



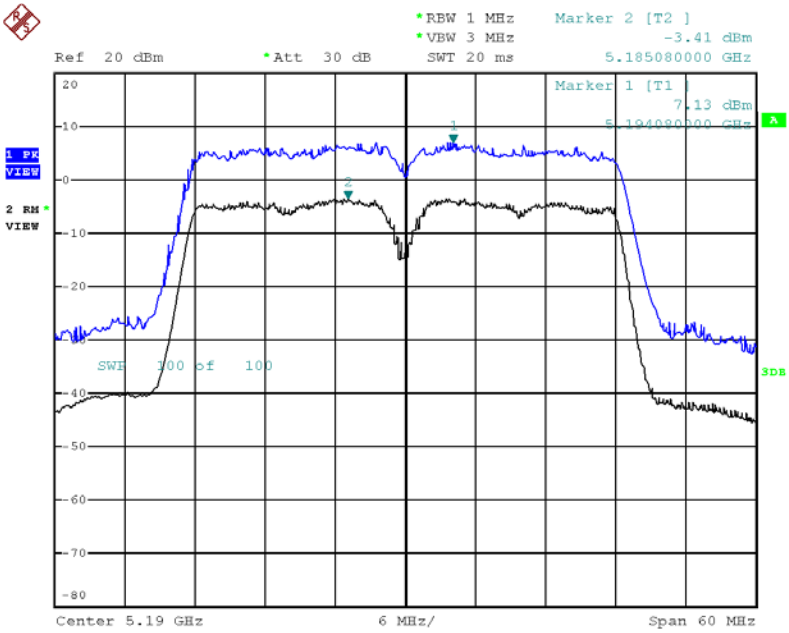
Date: 10.AUG.2013 08:59:37

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5710 MHz



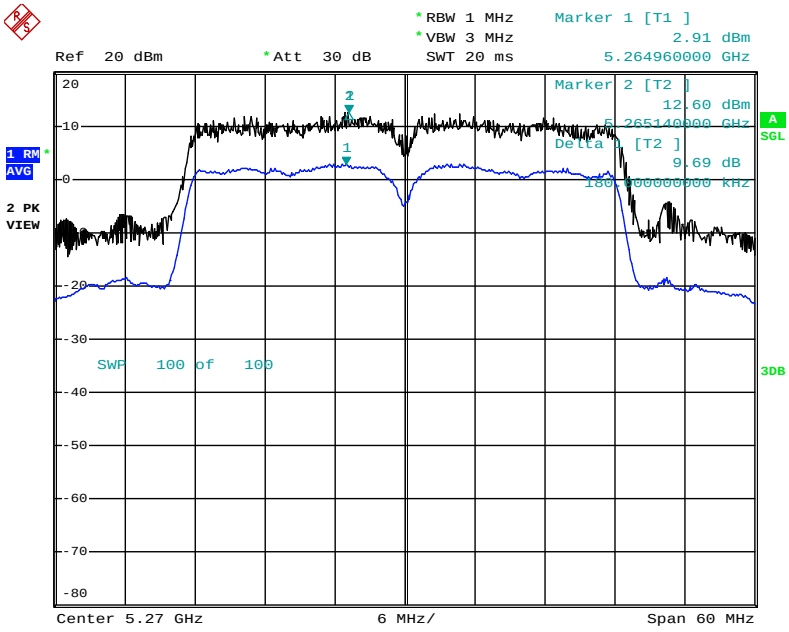
Date: 22.AUG.2013 23:43:29

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5190 MHz



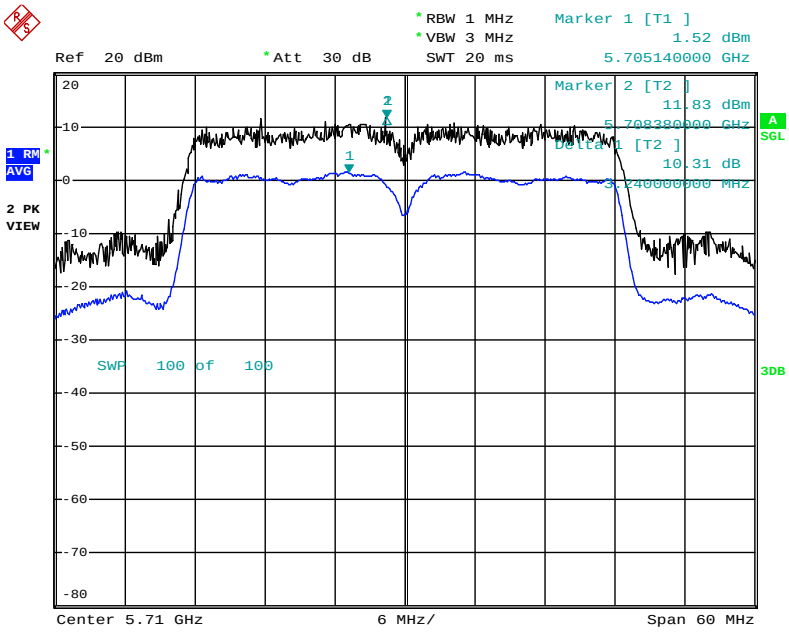
Date: 6.AUG.2013 18:30:45

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5270 MHz



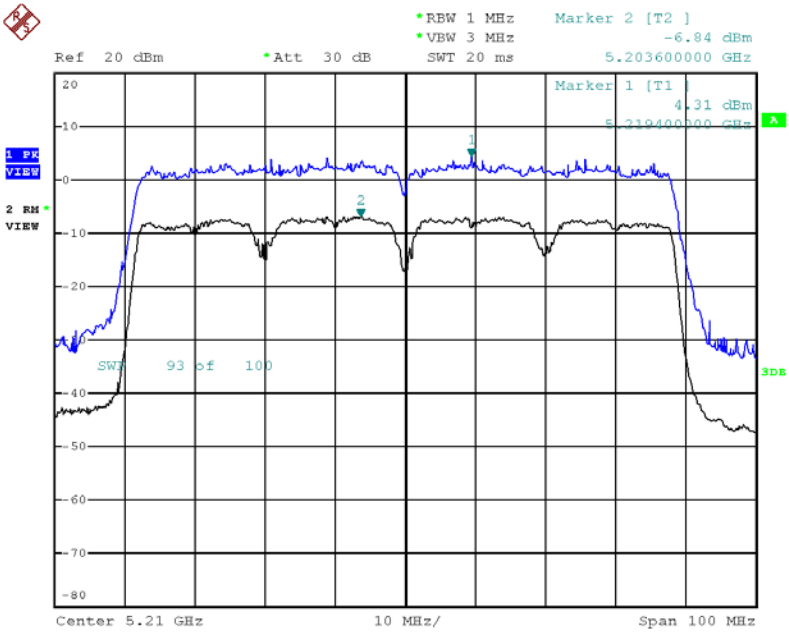
Date: 10.AUG.2013 08:57:34

Peak Excursion Plot on Configuration IEEE 802.11ac 40MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5710 MHz



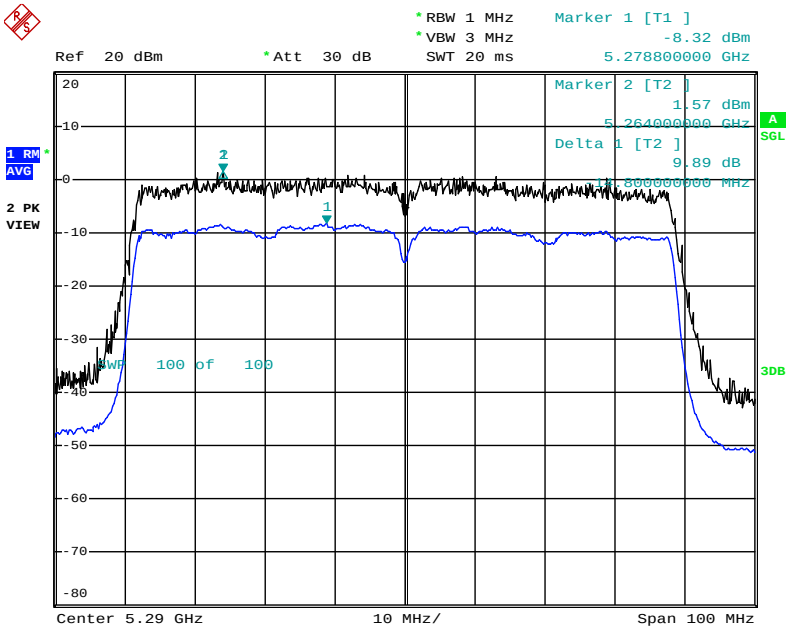
Date: 22.AUG.2013 23:25:46

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 64QAM (MCS5) / 5210 MHz



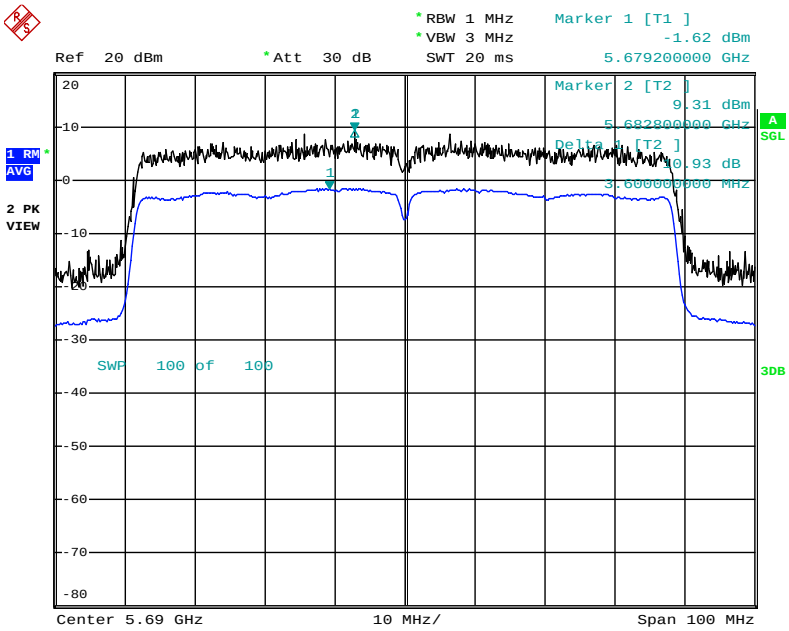
Date: 6.AUG.2013 18:08:21

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / 16QAM (MCS3) / 5290 MHz



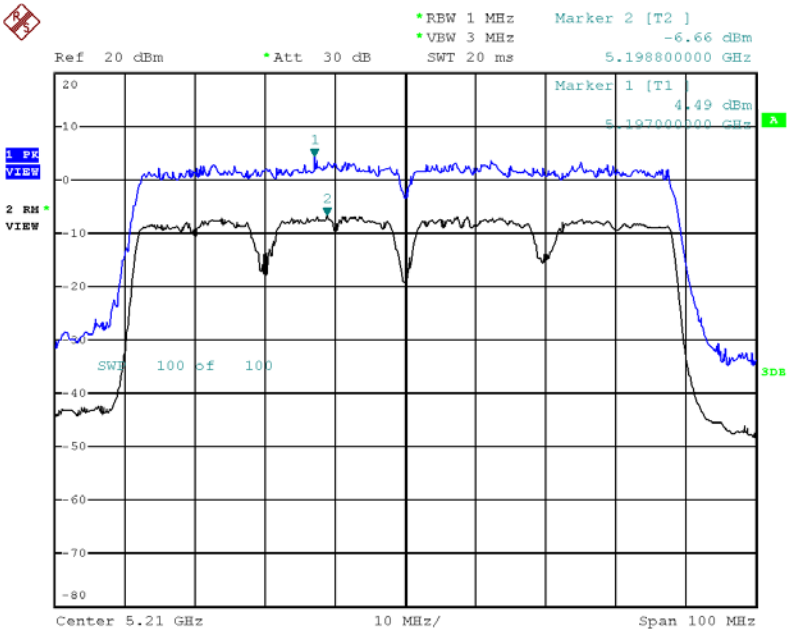
Date: 10.AUG.2013 09:08:00

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss1 / Chain 1 + Chain 2 + Chain 3 / BPSK (MCS0) / 5690 MHz



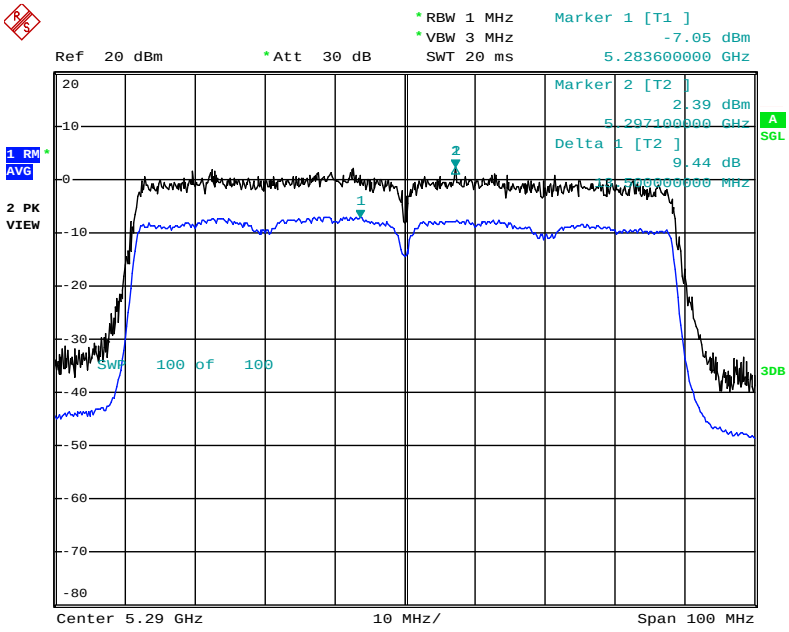
Date: 22.AUG.2013 23:46:16

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 256QAM (MCS8) / 5210 MHz



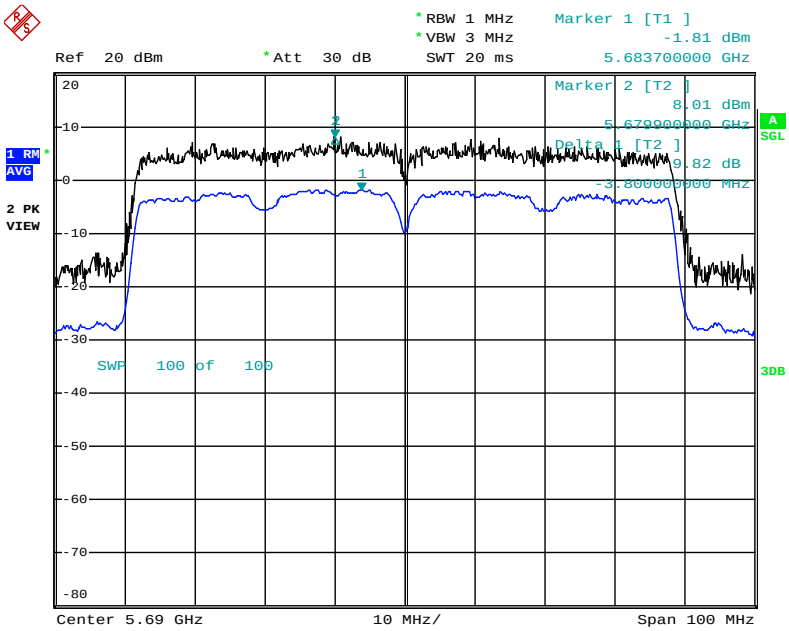
Date: 6.AUG.2013 18:13:07

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / QPSK (MCS1) / 5290 MHz



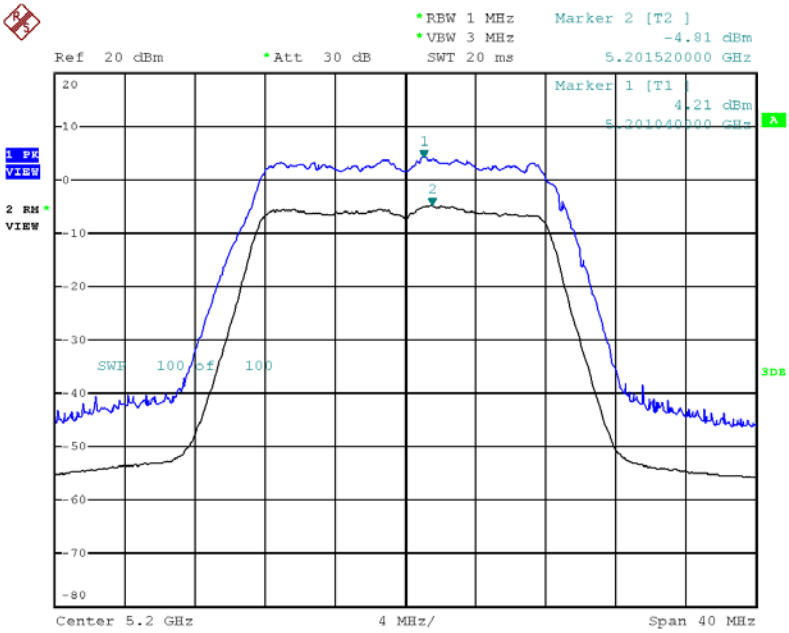
Date: 10.AUG.2013 09:10:10

Peak Excursion Plot on Configuration IEEE 802.11ac 80MHz MCS0-9/Nss3 / Chain 1 + Chain 2 + Chain 3 / 16QAM (MCS3) / 5690 MHz



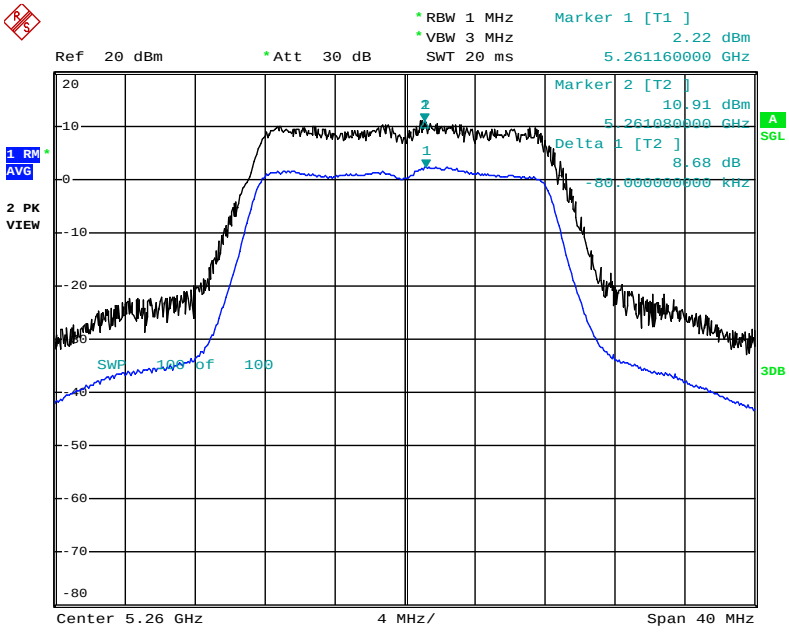
Date: 22.AUG.2013 23:28:45

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 64QAM (48Mbps) / 5200 MHz



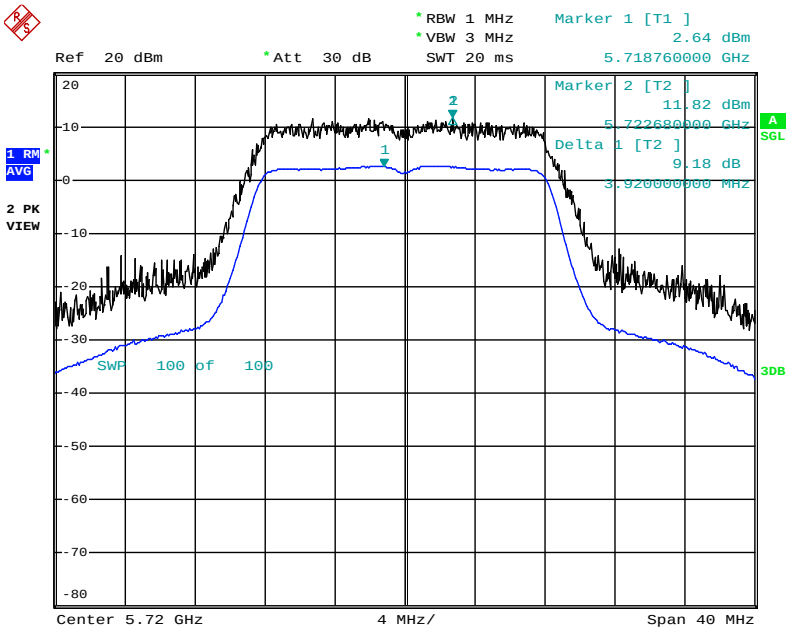
Date: 6.AUG.2013 17:57:28

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / 64QAM (48Mbps) / 5260 MHz



Date: 10.AUG.2013 08:38:14

Peak Excursion Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 + Chain 3 / BPSK (6Mbps) / 5720 MHz



Date: 22.AUG.2013 23:31:56

4.6. Radiated Emissions Measurement

4.6.1. Limit

For transmitters operating in the 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed a -27dBm peak limit or average 54dBuV/m and peak 74dBuV/m limits. For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.470-5.725 GHz band shall not exceed a -27dBm peak limit or average 54dBuV/m and peak 74dBuV/m limits. In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40 GHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 10Hz for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for peak

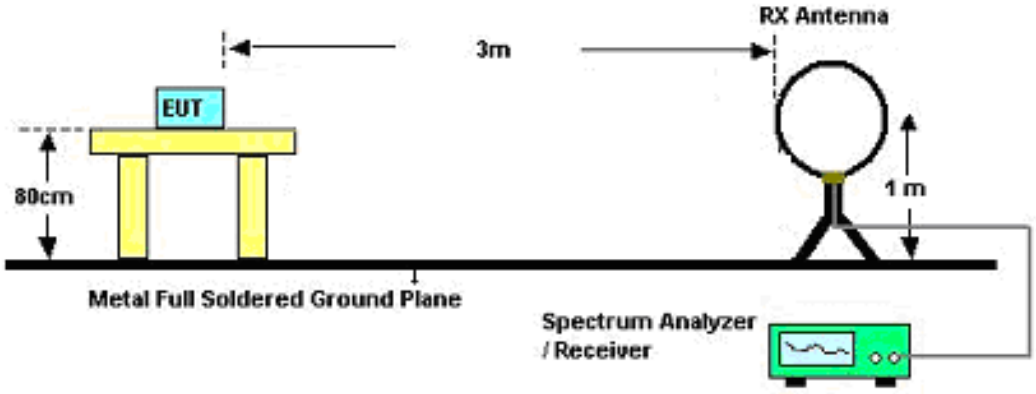
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RBW 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RBW 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RBW 120kHz for QP

4.6.3. Test Procedures

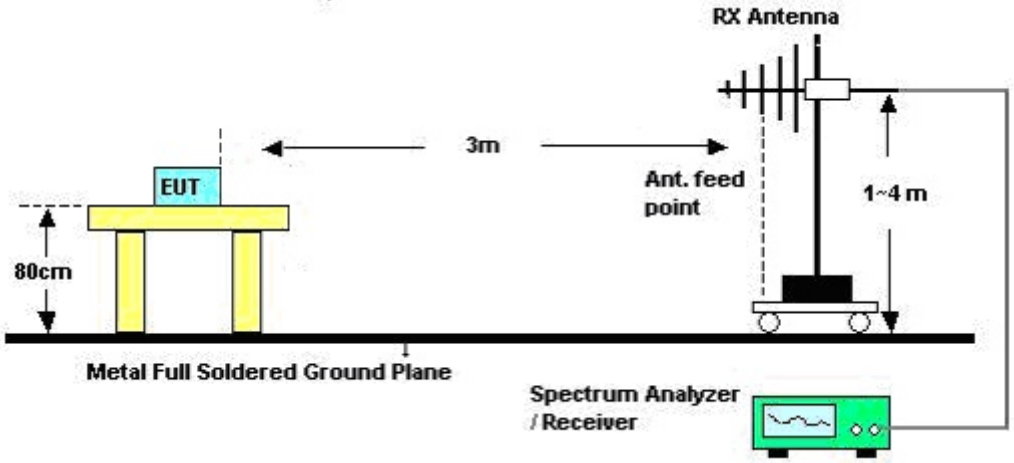
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.6.4. Test Setup Layout

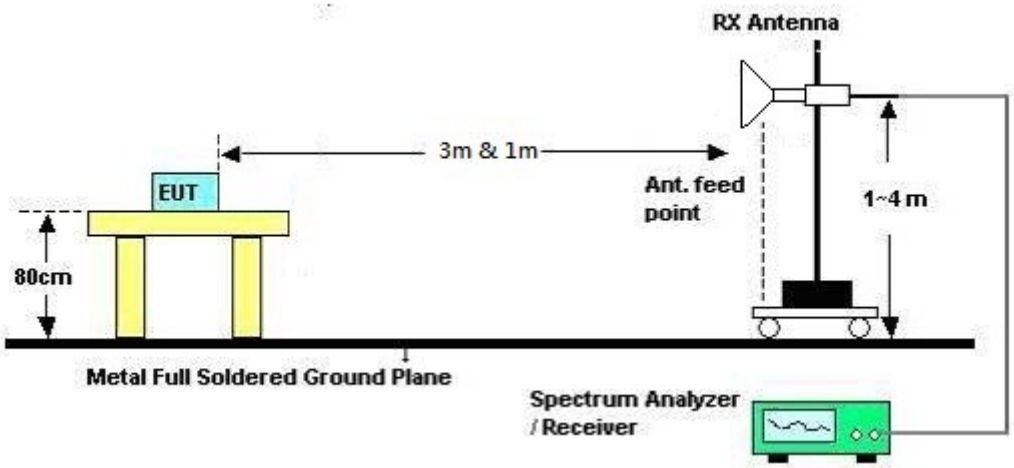
For Radiated Emissions: 9kHz ~30MHz



For Radiated Emissions: 30MHz~1GHz



For Radiated Emissions: Above 1GHz



4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	CTX
Test Date	Jul. 29, 2013		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

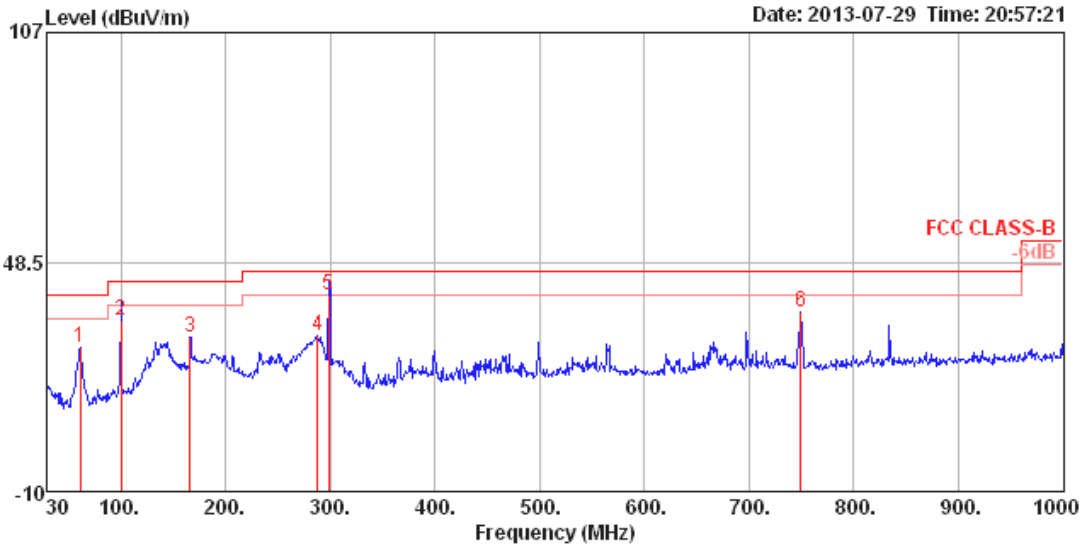
Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.6.8. Results of Radiated Emissions (30MHz~1GHz)

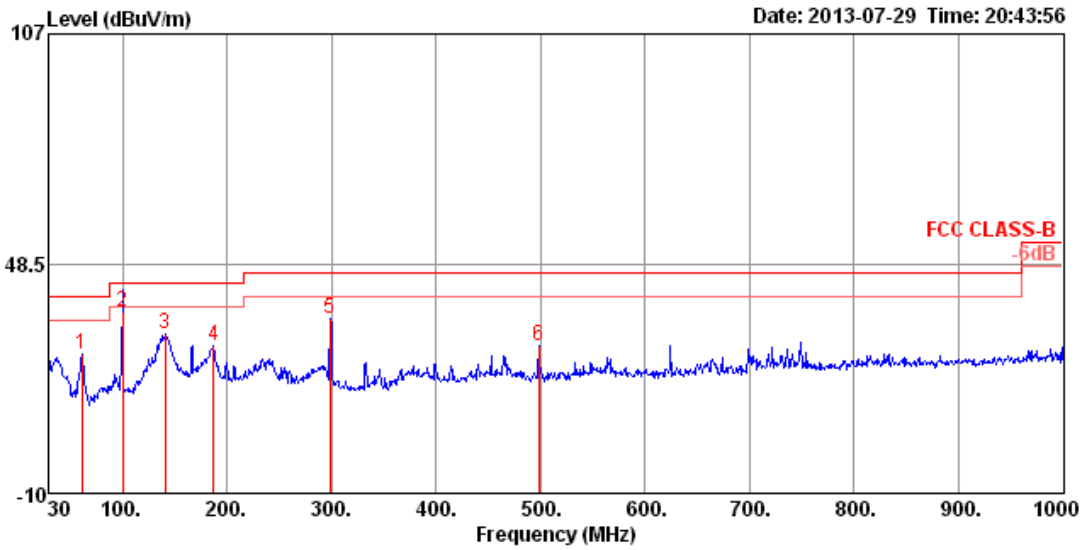
Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	CTX
Test Mode	Mode 1		

Horizontal



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	61.04	26.81	40.00	-13.19	52.83	0.90	4.87	31.79	400	33	HORIZONTAL	Peak
2	99.84	33.58	43.50	-9.92	53.70	1.18	10.31	31.61	192	146	HORIZONTAL	QP
3	165.80	29.39	43.50	-14.11	49.99	1.56	9.38	31.54	200	209	HORIZONTAL	Peak
4	288.02	29.57	46.00	-16.43	46.38	2.07	12.65	31.53	100	211	HORIZONTAL	Peak
5 q	298.69	39.87	46.00	-6.13	56.20	2.12	12.98	31.43	100	175	HORIZONTAL	QP
6 p	749.74	35.60	46.00	-10.40	43.75	3.53	19.69	31.37	200	213	HORIZONTAL	Peak

Vertical



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Pol/Phase	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	61.04	25.34	40.00	-14.66	51.36	0.90	4.87	31.79	300	154	VERTICAL	Peak
2 q	99.84	36.28	43.50	-7.22	56.40	1.18	10.31	31.61	100	248	VERTICAL	QP
3	140.58	30.72	43.50	-12.78	50.02	1.40	10.82	31.52	125	120	VERTICAL	Peak
4	187.14	27.62	43.50	-15.88	49.10	1.64	8.39	31.51	100	240	VERTICAL	Peak
5 p	298.69	34.37	46.00	-11.63	50.70	2.12	12.98	31.43	400	340	VERTICAL	Peak
6	498.51	27.76	46.00	-18.24	39.45	2.81	16.90	31.40	100	271	VERTICAL	Peak

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6.9. Results for Radiated Emissions (1GHz~40GHz)

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15540.29	38.52	54.00	-15.48	30.05	6.13	37.65	35.31	Average	100	323	HORIZONTAL
2	15541.35	51.03	74.00	-22.97	42.56	6.13	37.65	35.31	Peak	100	323	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15533.62	51.44	74.00	-22.56	42.87	6.13	37.73	35.29	Peak	100	240	VERTICAL
2	15537.82	38.58	54.00	-15.42	30.05	6.13	37.69	35.29	Average	100	240	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15601.31	38.30	54.00	-15.70	29.91	6.13	37.60	35.34	Average	100	274	HORIZONTAL
2	15608.94	51.51	74.00	-22.49	43.14	6.13	37.58	35.34	Peak	100	274	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15602.40	50.97	74.00	-23.03	42.58	6.13	37.60	35.34	Peak	100	190	VERTICAL
2	15603.33	38.26	54.00	-15.74	29.87	6.13	37.60	35.34	Average	100	190	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15717.40	38.47	54.00	-15.53	30.24	6.14	37.48	35.39	Average	100	294	HORIZONTAL
2	15725.54	51.04	74.00	-22.96	42.83	6.14	37.46	35.39	Peak	100	294	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15716.99	39.09	54.00	-14.91	30.86	6.14	37.48	35.39	Average	100	193	VERTICAL
2	15718.59	51.74	74.00	-22.26	43.51	6.14	37.48	35.39	Peak	100	193	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15774.74	50.64	74.00	-23.36	42.50	6.14	37.42	35.42	Peak	100	180	HORIZONTAL
2	15778.37	38.14	54.00	-15.86	30.01	6.14	37.41	35.42	Average	100	180	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15778.91	38.99	54.00	-15.01	30.86	6.14	37.41	35.42	Average	100	109	VERTICAL
2	15786.41	50.58	74.00	-23.42	42.45	6.14	37.41	35.42	Peak	100	109	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10605.48	37.29	54.00	-16.71	29.32	5.01	38.38	35.42	Average	100	99	HORIZONTAL
2	10609.58	50.24	74.00	-23.76	42.27	5.01	38.38	35.42	Peak	100	99	HORIZONTAL
3	15890.74	51.28	74.00	-22.72	43.27	6.15	37.30	35.44	Peak	100	205	HORIZONTAL
4	15904.97	38.06	54.00	-15.94	30.06	6.15	37.29	35.44	Average	100	205	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10598.69	50.03	74.00	-23.97	42.06	5.01	38.38	35.42	Peak	100	263	VERTICAL
2	10599.04	38.50	54.00	-15.50	30.53	5.01	38.38	35.42	Average	100	263	VERTICAL
3	15893.59	37.93	54.00	-16.07	29.92	6.15	37.30	35.44	Average	100	316	VERTICAL
4	15904.01	50.38	74.00	-23.62	42.38	6.15	37.29	35.44	Peak	100	316	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10637.92	37.09	54.00	-16.91	29.10	5.01	38.37	35.39	Average	100	106	HORIZONTAL
2	10640.80	49.52	74.00	-24.48	41.53	5.01	38.37	35.39	Peak	100	106	HORIZONTAL
3	15953.43	50.80	74.00	-23.20	42.86	6.15	37.23	35.44	Peak	100	255	HORIZONTAL
4	15956.70	37.89	54.00	-16.11	29.95	6.15	37.23	35.44	Average	100	255	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10641.57	38.24	54.00	-15.76	30.25	5.01	38.37	35.39	Average	100	295	VERTICAL
2	10645.03	50.59	74.00	-23.41	42.60	5.01	38.37	35.39	Peak	100	295	VERTICAL
3	15963.40	50.46	74.00	-23.54	42.52	6.15	37.23	35.44	Peak	100	328	VERTICAL
4	15964.65	37.88	54.00	-16.12	29.95	6.15	37.22	35.44	Average	100	328	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10996.51	50.02	74.00	-23.98	41.79	5.01	38.32	35.10	Peak	100	295	HORIZONTAL
2	10996.89	37.05	54.00	-16.95	28.82	5.01	38.32	35.10	Average	100	295	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10995.61	37.41	54.00	-16.59	29.20	5.01	38.30	35.10	Average	100	204	VERTICAL
2	11004.04	49.85	74.00	-24.15	41.64	5.01	38.30	35.10	Peak	100	204	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11158.59	50.09	74.00	-23.91	41.75	5.04	38.47	35.17	Peak	100	299	HORIZONTAL
2	11166.86	36.95	54.00	-17.05	28.60	5.05	38.47	35.17	Average	100	299	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11160.06	51.90	74.00	-22.10	43.56	5.04	38.47	35.17	Peak	100	193	VERTICAL
2	11165.61	38.57	54.00	-15.43	30.22	5.05	38.47	35.17	Average	100	193	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.51	50.11	74.00	-23.89	41.56	5.10	38.70	35.25	Peak	100	289	HORIZONTAL
2	11404.07	37.59	54.00	-16.41	29.04	5.10	38.70	35.25	Average	100	289	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.77	50.21	74.00	-23.79	41.66	5.10	38.70	35.25	Peak	100	167	VERTICAL
2	11401.83	37.87	54.00	-16.13	29.32	5.10	38.70	35.25	Average	100	167	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11441.51	50.09	74.00	-23.91	41.53	5.10	38.73	35.27	Peak	100	281	HORIZONTAL
2	11444.07	37.70	54.00	-16.30	29.13	5.11	38.73	35.27	Average	100	281	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11431.89	50.54	74.00	-23.46	41.97	5.10	38.73	35.26	Peak	100	220	VERTICAL
2	11436.86	38.46	54.00	-15.54	29.89	5.10	38.73	35.26	Average	100	220	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15540.03	51.44	74.00	-22.56	42.97	6.13	37.65	35.31	Peak	100	325	HORIZONTAL
2	15540.80	38.23	54.00	-15.77	29.76	6.13	37.65	35.31	Average	100	325	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15535.03	38.39	54.00	-15.61	29.82	6.13	37.73	35.29	Average	100	248	VERTICAL
2	15535.22	51.13	74.00	-22.87	42.56	6.13	37.73	35.29	Peak	100	248	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15599.39	51.09	74.00	-22.91	42.70	6.13	37.60	35.34	Peak	100	98	HORIZONTAL
2	15604.87	38.22	54.00	-15.78	29.83	6.13	37.60	35.34	Average	100	98	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15595.10	38.11	54.00	-15.89	29.72	6.13	37.60	35.34	Average	100	198	VERTICAL
2	15607.44	51.33	74.00	-22.67	42.96	6.13	37.58	35.34	Peak	100	198	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15711.76	51.10	74.00	-22.90	42.86	6.14	37.48	35.38	Peak	100	158	HORIZONTAL
2	15719.36	38.22	54.00	-15.78	29.99	6.14	37.48	35.39	Average	100	158	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15712.21	51.02	74.00	-22.98	42.78	6.14	37.48	35.38	Peak	100	298	VERTICAL
2	15719.62	38.67	54.00	-15.33	30.44	6.14	37.48	35.39	Average	100	298	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15772.53	50.44	74.00	-23.56	42.30	6.14	37.42	35.42	Peak	100	296	HORIZONTAL
2	15789.17	37.81	54.00	-16.19	29.68	6.14	37.41	35.42	Average	100	296	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15777.92	50.83	74.00	-23.17	42.70	6.14	37.41	35.42	Peak	100	217	VERTICAL
2	15778.14	38.17	54.00	-15.83	30.04	6.14	37.41	35.42	Average	100	217	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.16	36.61	54.00	-17.39	28.64	5.01	38.38	35.42	Average	100	68	HORIZONTAL
2	10600.80	49.60	74.00	-24.40	41.63	5.01	38.38	35.42	Peak	100	68	HORIZONTAL
3	15897.72	37.97	54.00	-16.03	29.97	6.15	37.29	35.44	Average	100	171	HORIZONTAL
4	15903.49	50.68	74.00	-23.32	42.68	6.15	37.29	35.44	Peak	100	171	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.48	39.64	54.00	-14.36	31.67	5.01	38.38	35.42	Average	100	189	VERTICAL
2	10602.02	53.05	74.00	-20.95	45.08	5.01	38.38	35.42	Peak	100	189	VERTICAL
3	15890.90	38.10	54.00	-15.90	30.09	6.15	37.30	35.44	Average	100	294	VERTICAL
4	15895.90	51.29	74.00	-22.71	43.29	6.15	37.29	35.44	Peak	100	294	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10634.29	37.12	54.00	-16.88	29.13	5.01	38.37	35.39	Average	100	268	HORIZONTAL
2	10637.79	50.41	74.00	-23.59	42.42	5.01	38.37	35.39	Peak	100	268	HORIZONTAL
3	15961.19	37.96	54.00	-16.04	30.02	6.15	37.23	35.44	Average	100	120	HORIZONTAL
4	15964.20	50.88	74.00	-23.12	42.95	6.15	37.22	35.44	Peak	100	120	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.46	39.68	54.00	-14.32	31.69	5.01	38.37	35.39	Average	100	338	VERTICAL
2	10640.42	52.55	74.00	-21.45	44.56	5.01	38.37	35.39	Peak	100	338	VERTICAL
3	15959.42	50.36	74.00	-23.64	42.42	6.15	37.23	35.44	Peak	100	203	VERTICAL
4	15968.62	37.94	54.00	-16.06	30.01	6.15	37.22	35.44	Average	100	203	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10998.30	50.01	74.00	-23.99	41.78	5.01	38.32	35.10	Peak	100	194	HORIZONTAL
2	11001.12	37.27	54.00	-16.73	29.04	5.01	38.32	35.10	Average	100	194	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.45	39.63	54.00	-14.37	31.42	5.01	38.30	35.10	Average	100	27	VERTICAL
2	11003.85	53.75	74.00	-20.25	45.54	5.01	38.30	35.10	Peak	100	27	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11150.32	36.80	54.00	-17.20	28.47	5.04	38.45	35.16	Average	100	132	HORIZONTAL
2	11150.71	49.96	74.00	-24.04	41.63	5.04	38.45	35.16	Peak	100	132	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11157.44	37.29	54.00	-16.71	28.96	5.04	38.45	35.16	Average	100	318	VERTICAL
2	11161.38	49.81	74.00	-24.19	41.47	5.04	38.47	35.17	Peak	100	318	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11395.10	50.09	74.00	-23.91	41.56	5.10	38.68	35.25	Peak	100	293	HORIZONTAL
2	11405.71	37.39	54.00	-16.61	28.84	5.10	38.70	35.25	Average	100	293	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11393.40	50.44	74.00	-23.56	41.91	5.10	38.68	35.25	Peak	100	193	VERTICAL
2	11402.72	37.37	54.00	-16.63	28.82	5.10	38.70	35.25	Average	100	193	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11433.59	37.76	54.00	-16.24	29.19	5.10	38.73	35.26	Average	100	268	HORIZONTAL
2	11442.05	50.28	74.00	-23.72	41.72	5.10	38.73	35.27	Peak	100	268	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.65	38.06	54.00	-15.94	29.50	5.10	38.73	35.27	Average	100	140	VERTICAL
2	11445.03	50.43	74.00	-23.57	41.86	5.11	38.73	35.27	Peak	100	140	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 38 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15569.94	38.16	54.00	-15.84	29.73	6.13	37.63	35.33	Average	100	291	HORIZONTAL
2	15570.99	51.28	74.00	-22.72	42.85	6.13	37.63	35.33	Peak	100	291	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15565.51	38.15	54.00	-15.85	29.70	6.13	37.65	35.33	Average	100	178	VERTICAL
2	15573.21	51.06	74.00	-22.94	42.65	6.13	37.61	35.33	Peak	100	178	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15687.76	38.19	54.00	-15.81	29.91	6.14	37.51	35.37	Average	100	84	HORIZONTAL
2	15690.29	50.82	74.00	-23.18	42.54	6.14	37.51	35.37	Peak	100	84	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15686.44	50.60	74.00	-23.40	42.32	6.14	37.51	35.37	Peak	100	160	VERTICAL
2	15693.94	38.39	54.00	-15.61	30.14	6.14	37.49	35.38	Average	100	160	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 54 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15811.15	37.70	54.00	-16.30	29.62	6.14	37.37	35.43	Average	100	127	HORIZONTAL
2	15811.73	50.32	74.00	-23.68	42.24	6.14	37.37	35.43	Peak	100	127	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15801.47	37.82	54.00	-16.18	29.72	6.14	37.39	35.43	Average	100	239	VERTICAL
2	15817.40	50.82	74.00	-23.18	42.74	6.14	37.37	35.43	Peak	100	239	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10614.04	37.03	54.00	-16.97	29.06	5.01	38.38	35.42	Average	100	112	HORIZONTAL
2	10621.73	50.41	74.00	-23.59	42.44	5.01	38.38	35.42	Peak	100	112	HORIZONTAL
3	15925.87	37.53	54.00	-16.47	29.55	6.15	37.27	35.44	Average	100	318	HORIZONTAL
4	15938.62	50.53	74.00	-23.47	42.57	6.15	37.25	35.44	Peak	100	318	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10616.54	37.33	54.00	-16.67	29.36	5.01	38.38	35.42	Average	100	179	VERTICAL
2	10621.35	50.07	74.00	-23.93	42.10	5.01	38.38	35.42	Peak	100	179	VERTICAL
3	15927.08	37.61	54.00	-16.39	29.63	6.15	37.27	35.44	Average	100	276	VERTICAL
4	15929.20	50.24	74.00	-23.76	42.26	6.15	37.27	35.44	Peak	100	276	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 102 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11010.99	36.98	54.00	-17.02	28.74	5.02	38.33	35.11	Average	100	317	HORIZONTAL
2	11028.24	49.71	74.00	-24.29	41.46	5.02	38.34	35.11	Peak	100	317	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11012.12	37.10	54.00	-16.90	28.87	5.02	38.32	35.11	Average	100	255	VERTICAL
2	11023.37	49.68	74.00	-24.32	41.44	5.02	38.33	35.11	Peak	100	255	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 110 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11092.53	37.02	54.00	-16.98	28.73	5.03	38.40	35.14	Average	100	220	HORIZONTAL
2	11097.37	49.69	74.00	-24.31	41.40	5.03	38.40	35.14	Peak	100	220	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11095.26	37.75	54.00	-16.25	29.46	5.03	38.40	35.14	Average	100	108	VERTICAL
2	11107.47	50.11	74.00	-23.89	41.81	5.03	38.42	35.15	Peak	100	108	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11340.87	50.26	74.00	-23.74	41.78	5.09	38.63	35.24	Peak	100	66	HORIZONTAL
2	11348.46	37.40	54.00	-16.60	28.90	5.09	38.65	35.24	Average	100	66	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11333.11	50.10	74.00	-23.90	41.62	5.08	38.63	35.23	Peak	100	149	VERTICAL
2	11336.73	37.86	54.00	-16.14	29.39	5.08	38.63	35.24	Average	100	149	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 142 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11420.80	50.37	74.00	-23.63	41.81	5.10	38.72	35.26	Peak	100	165	HORIZONTAL
2	11425.22	37.62	54.00	-16.38	29.06	5.10	38.72	35.26	Average	100	165	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11417.66	49.27	74.00	-24.73	40.71	5.10	38.72	35.26	Peak	100	283	VERTICAL
2	11419.46	38.09	54.00	-15.91	29.53	5.10	38.72	35.26	Average	100	283	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 38 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15565.77	38.20	54.00	-15.80	29.77	6.13	37.63	35.33	Average	100	98	HORIZONTAL
2	15573.62	51.15	74.00	-22.85	42.74	6.13	37.61	35.33	Peak	100	98	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15565.67	51.61	74.00	-22.39	43.16	6.13	37.65	35.33	Peak	100	177	VERTICAL
2	15566.25	38.25	54.00	-15.75	29.80	6.13	37.65	35.33	Average	100	177	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15688.27	51.57	74.00	-22.43	43.29	6.14	37.51	35.37	Peak	100	295	HORIZONTAL
2	15694.01	38.18	54.00	-15.82	29.93	6.14	37.49	35.38	Average	100	295	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15683.40	51.21	74.00	-22.79	42.93	6.14	37.51	35.37	Peak	100	212	VERTICAL
2	15697.95	38.48	54.00	-15.52	30.23	6.14	37.49	35.38	Average	100	212	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 54 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15802.15	37.79	54.00	-16.21	29.69	6.14	37.39	35.43	Average	100	105	HORIZONTAL
2	15816.63	50.82	74.00	-23.18	42.74	6.14	37.37	35.43	Peak	100	105	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15800.03	37.85	54.00	-16.15	29.75	6.14	37.39	35.43	Average	100	188	VERTICAL
2	15807.50	50.49	74.00	-23.51	42.39	6.14	37.39	35.43	Peak	100	188	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10618.46	49.76	74.00	-24.24	41.79	5.01	38.38	35.42	Peak	100	117	HORIZONTAL
2	10623.37	36.98	54.00	-17.02	29.01	5.01	38.38	35.42	Average	100	117	HORIZONTAL
3	15924.49	37.94	54.00	-16.06	29.96	6.15	37.27	35.44	Average	100	191	HORIZONTAL
4	15928.65	51.02	74.00	-22.98	43.04	6.15	37.27	35.44	Peak	100	191	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10610.22	37.42	54.00	-16.58	29.45	5.01	38.38	35.42	Average	100	250	VERTICAL
2	10620.71	49.61	74.00	-24.39	41.64	5.01	38.38	35.42	Peak	100	250	VERTICAL
3	15938.72	50.57	74.00	-23.43	42.61	6.15	37.25	35.44	Peak	100	312	VERTICAL
4	15939.17	37.80	54.00	-16.20	29.84	6.15	37.25	35.44	Average	100	312	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 102 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11025.45	49.68	74.00	-24.32	41.43	5.02	38.34	35.11	Peak	100	145	HORIZONTAL
2	11027.34	37.02	54.00	-16.98	28.77	5.02	38.34	35.11	Average	100	145	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11014.97	49.22	74.00	-24.78	40.99	5.02	38.32	35.11	Peak	100	204	VERTICAL
2	11020.00	36.96	54.00	-17.04	28.73	5.02	38.32	35.11	Average	100	204	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 110 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11092.37	36.97	54.00	-17.03	28.68	5.03	38.40	35.14	Average	100	131	HORIZONTAL
2	11109.26	50.27	74.00	-23.73	41.97	5.03	38.42	35.15	Peak	100	131	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11099.78	37.31	54.00	-16.69	29.02	5.03	38.40	35.14	Average	100	251	VERTICAL
2	11103.30	49.72	74.00	-24.28	41.43	5.03	38.40	35.14	Peak	100	251	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11348.59	50.52	74.00	-23.48	42.02	5.09	38.65	35.24	Peak	100	121	HORIZONTAL
2	11349.04	37.30	54.00	-16.70	28.80	5.09	38.65	35.24	Average	100	121	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11343.30	37.54	54.00	-16.46	29.06	5.09	38.63	35.24	Average	100	231	VERTICAL
2	11345.26	50.38	74.00	-23.62	41.90	5.09	38.63	35.24	Peak	100	231	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 142 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11415.67	37.66	54.00	-16.34	29.10	5.10	38.72	35.26	Average	100	74	HORIZONTAL
2	11419.84	50.12	74.00	-23.88	41.56	5.10	38.72	35.26	Peak	100	74	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11417.50	50.21	74.00	-23.79	41.65	5.10	38.72	35.26	Peak	100	167	VERTICAL
2	11421.54	37.89	54.00	-16.11	29.33	5.10	38.72	35.26	Average	100	167	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 42 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15628.43	51.16	74.00	-22.84	42.81	6.14	37.56	35.35	Peak	100	94	HORIZONTAL
2	15639.10	38.09	54.00	-15.91	29.74	6.14	37.56	35.35	Average	100	94	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15621.57	51.54	74.00	-22.46	43.18	6.13	37.58	35.35	Peak	100	199	VERTICAL
2	15626.47	38.20	54.00	-15.80	29.85	6.14	37.56	35.35	Average	100	199	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 58 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15870.80	50.63	74.00	-23.37	42.61	6.14	37.32	35.44	Peak	100	292	HORIZONTAL
2	15877.63	37.83	54.00	-16.17	29.81	6.14	37.32	35.44	Average	100	292	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15862.34	51.43	74.00	-22.57	43.42	6.14	37.32	35.45	Peak	100	201	VERTICAL
2	15864.36	37.77	54.00	-16.23	29.76	6.14	37.32	35.45	Average	100	201	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11051.35	36.92	54.00	-17.08	28.66	5.02	38.36	35.12	Average	100	82	HORIZONTAL
2	11052.47	50.03	74.00	-23.97	41.77	5.02	38.36	35.12	Peak	100	82	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11054.07	36.96	54.00	-17.04	28.71	5.02	38.35	35.12	Average	100	177	VERTICAL
2	11055.90	50.24	74.00	-23.76	41.99	5.02	38.35	35.12	Peak	100	177	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 138 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11401.31	50.03	74.00	-23.97	41.48	5.10	38.70	35.25	Peak	100	90	HORIZONTAL
2	11401.47	37.70	54.00	-16.30	29.15	5.10	38.70	35.25	Average	100	90	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11375.11	37.68	54.00	-16.32	29.17	5.09	38.67	35.25	Average	100	226	VERTICAL
2	11375.88	50.23	74.00	-23.77	41.72	5.09	38.67	35.25	Peak	100	226	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 42 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15620.90	38.07	54.00	-15.93	29.71	6.13	37.58	35.35	Average	100	73	HORIZONTAL
2	15638.17	50.83	74.00	-23.17	42.48	6.14	37.56	35.35	Peak	100	73	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15629.39	50.45	74.00	-23.55	42.10	6.14	37.56	35.35	Peak	100	198	VERTICAL
2	15638.21	38.42	54.00	-15.58	30.07	6.14	37.56	35.35	Average	100	198	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 58 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15872.12	51.16	74.00	-22.84	43.14	6.14	37.32	35.44	Peak	100	291	HORIZONTAL
2	15876.51	37.79	54.00	-16.21	29.77	6.14	37.32	35.44	Average	100	291	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15877.12	38.10	54.00	-15.90	30.08	6.14	37.32	35.44	Average	100	168	VERTICAL
2	15878.59	50.51	74.00	-23.49	42.51	6.14	37.30	35.44	Peak	100	168	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11056.60	36.86	54.00	-17.14	28.60	5.02	38.37	35.13	Average	100	98	HORIZONTAL
2	11065.61	49.39	74.00	-24.61	41.12	5.03	38.37	35.13	Peak	100	98	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11061.09	37.02	54.00	-16.98	28.75	5.03	38.37	35.13	Average	100	197	VERTICAL
2	11063.56	49.39	74.00	-24.61	41.12	5.03	38.37	35.13	Peak	100	197	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 138 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11379.42	37.11	54.00	-16.89	28.60	5.09	38.67	35.25	Average	100	322	HORIZONTAL
2	11389.78	50.17	74.00	-23.83	41.65	5.09	38.68	35.25	Peak	100	322	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11373.01	37.44	54.00	-16.56	28.93	5.09	38.67	35.25	Average	100	248	VERTICAL
2	11389.78	50.36	74.00	-23.64	41.84	5.09	38.68	35.25	Peak	100	248	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15533.78	38.27	54.00	-15.73	29.76	6.13	37.67	35.29	Average	100	148	HORIZONTAL
2	15548.17	51.57	74.00	-22.43	43.10	6.13	37.65	35.31	Peak	100	148	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15530.54	51.83	74.00	-22.17	43.26	6.13	37.73	35.29	Peak	100	266	VERTICAL
2	15540.64	38.46	54.00	-15.54	29.95	6.13	37.69	35.31	Average	100	266	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15591.12	37.96	54.00	-16.04	29.57	6.13	37.60	35.34	Average	100	292	HORIZONTAL
2	15603.30	50.18	74.00	-23.82	41.79	6.13	37.60	35.34	Peak	100	292	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15597.18	51.19	74.00	-22.81	42.80	6.13	37.60	35.34	Peak	100	185	VERTICAL
2	15600.61	38.04	54.00	-15.96	29.65	6.13	37.60	35.34	Average	100	185	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15713.56	38.43	54.00	-15.57	30.19	6.14	37.48	35.38	Average	100	160	HORIZONTAL
2	15718.30	50.58	74.00	-23.42	42.35	6.14	37.48	35.39	Peak	100	160	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15716.35	52.41	74.00	-21.59	44.18	6.14	37.48	35.39	Peak	100	132	VERTICAL
2	15718.33	39.71	54.00	-14.29	31.48	6.14	37.48	35.39	Average	100	132	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15787.18	38.04	54.00	-15.96	29.91	6.14	37.41	35.42	Average	100	313	HORIZONTAL
2	15787.47	50.90	74.00	-23.10	42.77	6.14	37.41	35.42	Peak	100	313	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15778.11	38.74	54.00	-15.26	30.61	6.14	37.41	35.42	Average	100	56	VERTICAL
2	15784.62	50.92	74.00	-23.08	42.79	6.14	37.41	35.42	Peak	100	56	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10605.32	48.35	74.00	-25.65	40.38	5.01	38.38	35.42	Peak	100	157	HORIZONTAL
2	10605.61	37.03	54.00	-16.97	29.06	5.01	38.38	35.42	Average	100	157	HORIZONTAL
3	15893.14	38.16	54.00	-15.84	30.15	6.15	37.30	35.44	Average	100	249	HORIZONTAL
4	15904.07	51.36	74.00	-22.64	43.36	6.15	37.29	35.44	Peak	100	249	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10594.81	50.65	74.00	-23.35	42.70	5.01	38.38	35.44	Peak	100	24	VERTICAL
2	10601.51	38.39	54.00	-15.61	30.42	5.01	38.38	35.42	Average	100	24	VERTICAL
3	15890.16	50.24	74.00	-23.76	42.23	6.15	37.30	35.44	Peak	100	135	VERTICAL
4	15892.88	38.02	54.00	-15.98	30.01	6.15	37.30	35.44	Average	100	135	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10632.47	37.13	54.00	-16.87	29.14	5.01	38.37	35.39	Average	100	175	HORIZONTAL
2	10645.90	49.93	74.00	-24.07	41.94	5.01	38.37	35.39	Peak	100	175	HORIZONTAL
3	15951.31	37.97	54.00	-16.03	30.03	6.15	37.23	35.44	Average	100	292	HORIZONTAL
4	15962.66	50.73	74.00	-23.27	42.79	6.15	37.23	35.44	Peak	100	292	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10634.49	51.39	74.00	-22.61	43.40	5.01	38.37	35.39	Peak	100	89	VERTICAL
2	10636.03	38.61	54.00	-15.39	30.62	5.01	38.37	35.39	Average	100	89	VERTICAL
3	15956.41	51.13	74.00	-22.87	43.19	6.15	37.23	35.44	Peak	100	194	VERTICAL
4	15957.02	38.02	54.00	-15.98	30.08	6.15	37.23	35.44	Average	100	194	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10991.25	49.57	74.00	-24.43	41.34	5.01	38.32	35.10	Peak	100	154	HORIZONTAL
2	11000.42	36.82	54.00	-17.18	28.59	5.01	38.32	35.10	Average	100	154	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.71	37.03	54.00	-16.97	28.82	5.01	38.30	35.10	Average	100	47	VERTICAL
2	11004.65	49.87	74.00	-24.13	41.66	5.01	38.30	35.10	Peak	100	47	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11150.67	36.86	54.00	-17.14	28.53	5.04	38.45	35.16	Average	100	198	HORIZONTAL
2	11164.68	49.86	74.00	-24.14	41.51	5.05	38.47	35.17	Peak	100	198	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11156.60	38.35	54.00	-15.65	30.02	5.04	38.45	35.16	Average	100	341	VERTICAL
2	11158.49	49.67	74.00	-24.33	41.33	5.04	38.47	35.17	Peak	100	341	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11402.05	37.29	54.00	-16.71	28.74	5.10	38.70	35.25	Average	100	128	HORIZONTAL
2	11406.12	49.55	74.00	-24.45	41.00	5.10	38.70	35.25	Peak	100	128	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11403.08	49.80	74.00	-24.20	41.25	5.10	38.70	35.25	Peak	100	45	VERTICAL
2	11408.85	37.46	54.00	-16.54	28.91	5.10	38.70	35.25	Average	100	45	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 1 (Ant.1 Dipole antenna / 1dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11432.92	37.68	54.00	-16.32	29.11	5.10	38.73	35.26	Average	100	284	HORIZONTAL
2	11447.47	50.28	74.00	-23.72	41.71	5.11	38.73	35.27	Peak	100	284	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11430.48	50.49	74.00	-23.51	41.93	5.10	38.72	35.26	Peak	100	141	VERTICAL
2	11436.60	38.60	54.00	-15.40	30.03	5.10	38.73	35.26	Average	100	141	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15535.83	37.84	54.00	-16.16	29.33	6.13	37.67	35.29	Average	100	93	HORIZONTAL
2	15544.90	51.05	74.00	-22.95	42.58	6.13	37.65	35.31	Peak	100	93	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15532.37	51.26	74.00	-22.74	42.69	6.13	37.73	35.29	Peak	100	235	VERTICAL
2	15538.88	37.89	54.00	-16.11	29.38	6.13	37.69	35.31	Average	100	235	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15593.85	50.85	74.00	-23.15	42.46	6.13	37.60	35.34	Peak	100	247	HORIZONTAL
2	15601.35	37.70	54.00	-16.30	29.31	6.13	37.60	35.34	Average	100	247	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15598.40	37.61	54.00	-16.39	29.22	6.13	37.60	35.34	Average	100	70	VERTICAL
2	15603.21	50.72	74.00	-23.28	42.33	6.13	37.60	35.34	Peak	100	70	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15722.76	38.51	54.00	-15.49	30.28	6.14	37.48	35.39	Average	100	155	HORIZONTAL
2	15725.19	51.18	74.00	-22.82	42.97	6.14	37.46	35.39	Peak	100	155	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15715.54	38.74	54.00	-15.26	30.50	6.14	37.48	35.38	Average	100	305	VERTICAL
2	15728.08	51.67	74.00	-22.33	43.46	6.14	37.46	35.39	Peak	100	305	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15785.00	38.36	54.00	-15.64	30.23	6.14	37.41	35.42	Average	100	107	HORIZONTAL
2	15786.38	50.80	74.00	-23.20	42.67	6.14	37.41	35.42	Peak	100	107	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15778.08	38.38	54.00	-15.62	30.25	6.14	37.41	35.42	Average	100	217	VERTICAL
2	15781.96	50.75	74.00	-23.25	42.62	6.14	37.41	35.42	Peak	100	217	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10601.92	36.88	54.00	-17.12	28.91	5.01	38.38	35.42	Average	100	163	HORIZONTAL
2	10607.69	49.38	74.00	-24.62	41.41	5.01	38.38	35.42	Peak	100	163	HORIZONTAL
3	15897.50	37.61	54.00	-16.39	29.61	6.15	37.29	35.44	Average	100	228	HORIZONTAL
4	15899.01	51.44	74.00	-22.56	43.44	6.15	37.29	35.44	Peak	100	228	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10594.68	36.88	54.00	-17.12	28.93	5.01	38.38	35.44	Average	100	158	VERTICAL
2	10595.87	49.73	74.00	-24.27	41.78	5.01	38.38	35.44	Peak	100	158	VERTICAL
3	15892.08	37.70	54.00	-16.30	29.69	6.15	37.30	35.44	Average	100	273	VERTICAL
4	15906.73	50.39	74.00	-23.61	42.39	6.15	37.29	35.44	Peak	100	273	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10634.33	49.82	74.00	-24.18	41.83	5.01	38.37	35.39	Peak	100	116	HORIZONTAL
2	10640.71	36.78	54.00	-17.22	28.79	5.01	38.37	35.39	Average	100	116	HORIZONTAL
3	15954.71	50.49	74.00	-23.51	42.55	6.15	37.23	35.44	Peak	100	190	HORIZONTAL
4	15968.30	37.44	54.00	-16.56	29.51	6.15	37.22	35.44	Average	100	190	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10633.49	49.73	74.00	-24.27	41.74	5.01	38.37	35.39	Peak	100	164	VERTICAL
2	10634.42	36.99	54.00	-17.01	29.00	5.01	38.37	35.39	Average	100	164	VERTICAL
3	15964.26	37.45	54.00	-16.55	29.52	6.15	37.22	35.44	Average	100	245	VERTICAL
4	15967.79	50.30	74.00	-23.70	42.37	6.15	37.22	35.44	Peak	100	245	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11001.60	49.76	74.00	-24.24	41.53	5.01	38.32	35.10	Peak	100	136	HORIZONTAL
2	11008.33	36.68	54.00	-17.32	28.45	5.01	38.33	35.11	Average	100	136	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11001.73	49.74	74.00	-24.26	41.53	5.01	38.30	35.10	Peak	100	221	VERTICAL
2	11002.44	36.68	54.00	-17.32	28.47	5.01	38.30	35.10	Average	100	221	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5112.15	65.12	74.00	-8.88	63.11	3.42	33.61	35.02	Peak	153	269	HORIZONTAL
2	5112.47	53.81	54.00	-0.19	51.80	3.42	33.61	35.02	Average	153	269	HORIZONTAL
3	11163.40	39.04	54.00	-14.96	30.69	5.05	38.47	35.17	Average	100	95	HORIZONTAL
4	11163.56	52.71	74.00	-21.29	44.36	5.05	38.47	35.17	Peak	100	95	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5108.08	54.59	74.00	-19.41	52.61	3.42	33.58	35.02	Peak	100	151	VERTICAL
2	5113.24	43.19	54.00	-10.81	41.18	3.42	33.61	35.02	Average	100	151	VERTICAL
3	11155.87	53.16	74.00	-20.84	44.83	5.04	38.45	35.16	Peak	100	262	VERTICAL
4	11158.65	39.24	54.00	-14.76	30.90	5.04	38.47	35.17	Average	100	262	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11395.90	50.37	74.00	-23.63	41.84	5.10	38.68	35.25	Peak	100	108	HORIZONTAL
2	11401.67	37.43	54.00	-16.57	28.88	5.10	38.70	35.25	Average	100	108	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11395.54	37.39	54.00	-16.61	28.86	5.10	38.68	35.25	Average	100	225	VERTICAL
2	11402.34	50.21	74.00	-23.79	41.66	5.10	38.70	35.25	Peak	100	225	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11436.06	39.37	54.00	-14.63	30.80	5.10	38.73	35.26	Average	100	231	HORIZONTAL
2	11436.15	53.89	74.00	-20.11	45.32	5.10	38.73	35.26	Peak	100	231	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.29	52.86	74.00	-21.14	44.30	5.10	38.73	35.27	Peak	100	212	VERTICAL
2	11439.49	40.20	54.00	-13.80	31.64	5.10	38.73	35.27	Average	100	212	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15539.47	49.57	74.00	-24.43	41.10	6.13	37.65	35.31	Peak	100	85	HORIZONTAL
2	15540.01	36.57	54.00	-17.43	28.10	6.13	37.65	35.31	Average	100	85	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15535.48	36.78	54.00	-17.22	28.21	6.13	37.73	35.29	Average	100	272	VERTICAL
2	15542.93	49.50	74.00	-24.50	40.99	6.13	37.69	35.31	Peak	100	272	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4983.33	39.38	54.00	-14.62	37.65	3.38	33.36	35.01	Average	105	67	HORIZONTAL
2	4983.43	45.06	74.00	-28.94	43.33	3.38	33.36	35.01	Peak	105	67	HORIZONTAL
3	15602.79	49.06	74.00	-24.94	40.67	6.13	37.60	35.34	Peak	100	168	HORIZONTAL
4	15607.28	36.61	54.00	-17.39	28.24	6.13	37.58	35.34	Average	100	168	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4982.14	43.61	74.00	-30.39	41.87	3.38	33.37	35.01	Peak	100	315	VERTICAL
2	4983.02	33.71	54.00	-20.29	31.97	3.38	33.37	35.01	Average	100	315	VERTICAL
3	15596.71	48.59	74.00	-25.41	40.20	6.13	37.60	35.34	Peak	100	261	VERTICAL
4	15599.49	36.45	54.00	-17.55	28.06	6.13	37.60	35.34	Average	100	261	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5087.21	53.17	74.00	-20.83	51.23	3.41	33.55	35.02	Peak	100	55	HORIZONTAL
2	5089.04	45.43	54.00	-8.57	43.49	3.41	33.55	35.02	Average	100	55	HORIZONTAL
3	15711.99	49.85	74.00	-24.15	41.61	6.14	37.48	35.38	Peak	100	175	HORIZONTAL
4	15722.31	37.28	54.00	-16.72	29.05	6.14	37.48	35.39	Average	100	175	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5087.21	39.00	54.00	-15.00	37.06	3.41	33.55	35.02	Average	100	235	VERTICAL
2	5090.87	48.14	74.00	-25.86	46.20	3.41	33.55	35.02	Peak	100	235	VERTICAL
3	15716.60	49.72	74.00	-24.28	41.49	6.14	37.48	35.39	Peak	100	146	VERTICAL
4	15721.28	36.98	54.00	-17.02	28.75	6.14	37.48	35.39	Average	100	146	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5026.15	54.66	74.00	-19.34	52.82	3.40	33.45	35.01	Peak	100	306	HORIZONTAL
2	5028.01	45.83	54.00	-8.17	43.99	3.40	33.45	35.01	Average	100	306	HORIZONTAL
3	15780.83	36.72	54.00	-17.28	28.59	6.14	37.41	35.42	Average	100	104	HORIZONTAL
4	15786.09	48.77	74.00	-25.23	40.64	6.14	37.41	35.42	Peak	100	104	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5024.62	49.61	74.00	-24.39	47.76	3.40	33.46	35.01	Peak	100	81	VERTICAL
2	5026.73	40.93	54.00	-13.07	39.08	3.40	33.46	35.01	Average	100	81	VERTICAL
3	15781.96	36.38	54.00	-17.62	28.25	6.14	37.41	35.42	Average	100	216	VERTICAL
4	15783.93	48.83	74.00	-25.17	40.70	6.14	37.41	35.42	Peak	100	216	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.98	49.43	74.00	-24.57	41.46	5.01	38.38	35.42	Peak	100	303	HORIZONTAL
2	10602.26	36.34	54.00	-17.66	28.37	5.01	38.38	35.42	Average	100	303	HORIZONTAL
3	15902.36	35.67	54.00	-18.33	27.67	6.15	37.29	35.44	Average	100	244	HORIZONTAL
4	15903.17	48.96	74.00	-25.04	40.96	6.15	37.29	35.44	Peak	100	244	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.42	36.11	54.00	-17.89	28.14	5.01	38.38	35.42	Average	100	324	VERTICAL
2	10600.96	48.44	74.00	-25.56	40.47	5.01	38.38	35.42	Peak	100	324	VERTICAL
3	15900.13	48.56	74.00	-25.44	40.56	6.15	37.29	35.44	Peak	100	153	VERTICAL
4	15900.19	35.71	54.00	-18.29	27.71	6.15	37.29	35.44	Average	100	153	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10638.83	36.11	54.00	-17.89	28.12	5.01	38.37	35.39	Average	100	268	HORIZONTAL
2	10639.62	48.27	74.00	-25.73	40.28	5.01	38.37	35.39	Peak	100	268	HORIZONTAL
3	15961.25	48.94	74.00	-25.06	41.00	6.15	37.23	35.44	Peak	100	134	HORIZONTAL
4	15963.77	35.75	54.00	-18.25	27.82	6.15	37.22	35.44	Average	100	134	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.46	36.32	54.00	-17.68	28.33	5.01	38.37	35.39	Average	100	170	VERTICAL
2	10641.23	48.68	74.00	-25.32	40.69	5.01	38.37	35.39	Peak	100	170	VERTICAL
3	15960.18	49.67	74.00	-24.33	41.73	6.15	37.23	35.44	Peak	100	59	VERTICAL
4	15963.77	35.45	54.00	-18.55	27.52	6.15	37.22	35.44	Average	100	59	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5041.51	40.71	54.00	-13.29	38.83	3.40	33.49	35.01	Average	100	294	HORIZONTAL
2	5043.91	51.63	74.00	-22.37	49.75	3.40	33.49	35.01	Peak	100	294	HORIZONTAL
3	10998.57	48.83	74.00	-25.17	40.60	5.01	38.32	35.10	Peak	100	264	HORIZONTAL
4	10999.94	36.39	54.00	-17.61	28.16	5.01	38.32	35.10	Average	100	264	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5040.31	48.11	74.00	-25.89	46.26	3.40	33.46	35.01	Peak	100	153	VERTICAL
2	5041.67	35.82	54.00	-18.18	33.94	3.40	33.49	35.01	Average	100	153	VERTICAL
3	11002.08	47.97	74.00	-26.03	39.76	5.01	38.30	35.10	Peak	100	153	VERTICAL
4	11002.96	36.43	54.00	-17.57	28.22	5.01	38.30	35.10	Average	100	153	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5117.13	52.20	54.00	-1.80	50.19	3.42	33.61	35.02	Average	153	110	HORIZONTAL
2	5117.23	63.79	74.00	-10.21	61.78	3.42	33.61	35.02	Peak	153	110	HORIZONTAL
3	11164.13	40.74	54.00	-13.26	32.39	5.05	38.47	35.17	Average	113	258	HORIZONTAL
4	11166.41	52.38	74.00	-21.62	44.03	5.05	38.47	35.17	Peak	113	258	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5115.74	53.67	74.00	-20.33	51.66	3.42	33.61	35.02	Peak	100	355	VERTICAL
2	5116.16	42.08	54.00	-11.92	40.07	3.42	33.61	35.02	Average	100	355	VERTICAL
3	11156.73	54.14	74.00	-19.86	45.81	5.04	38.45	35.16	Peak	119	319	VERTICAL
4	11160.48	39.22	54.00	-14.78	30.88	5.04	38.47	35.17	Average	119	319	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	7599.87	51.23	74.00	-22.77	46.16	4.10	36.39	35.42	Peak	100	90	HORIZONTAL
2	7599.92	42.62	54.00	-11.38	37.55	4.10	36.39	35.42	Average	100	90	HORIZONTAL
3	11396.44	49.93	74.00	-24.07	41.40	5.10	38.68	35.25	Peak	100	150	HORIZONTAL
4	11398.88	37.93	54.00	-16.07	29.38	5.10	38.70	35.25	Average	100	150	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	7599.76	45.65	74.00	-28.35	40.58	4.10	36.39	35.42	Peak	100	231	VERTICAL
2	7599.87	33.30	54.00	-20.70	28.23	4.10	36.39	35.42	Average	100	231	VERTICAL
3	11396.23	50.36	74.00	-23.64	41.83	5.10	38.68	35.25	Peak	100	251	VERTICAL
4	11400.32	37.00	54.00	-17.00	28.45	5.10	38.70	35.25	Average	100	251	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11442.44	38.91	54.00	-15.09	30.34	5.11	38.73	35.27	Average	100	52	HORIZONTAL
2	11443.01	50.97	74.00	-23.03	42.40	5.11	38.73	35.27	Peak	100	52	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.04	39.60	54.00	-14.40	31.04	5.10	38.73	35.27	Average	100	100	VERTICAL
2	11445.00	52.31	74.00	-21.69	43.74	5.11	38.73	35.27	Peak	100	100	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 38 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15567.79	37.83	54.00	-16.17	29.40	6.13	37.63	35.33	Average	100	189	HORIZONTAL
2	15572.79	50.40	74.00	-23.60	41.99	6.13	37.61	35.33	Peak	100	189	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15566.12	37.65	54.00	-16.35	29.20	6.13	37.65	35.33	Average	100	299	VERTICAL
2	15579.04	50.86	74.00	-23.14	42.45	6.13	37.61	35.33	Peak	100	299	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15690.32	38.03	54.00	-15.97	29.75	6.14	37.51	35.37	Average	100	277	HORIZONTAL
2	15693.30	51.19	74.00	-22.81	42.94	6.14	37.49	35.38	Peak	100	277	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15686.19	51.51	74.00	-22.49	43.23	6.14	37.51	35.37	Peak	100	11	VERTICAL
2	15699.68	37.94	54.00	-16.06	29.69	6.14	37.49	35.38	Average	100	11	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 54 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15803.85	37.50	54.00	-16.50	29.40	6.14	37.39	35.43	Average	100	111	HORIZONTAL
2	15809.39	50.41	74.00	-23.59	42.31	6.14	37.39	35.43	Peak	100	111	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15800.06	37.39	54.00	-16.61	29.29	6.14	37.39	35.43	Average	100	288	VERTICAL
2	15807.18	50.79	74.00	-23.21	42.69	6.14	37.39	35.43	Peak	100	288	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10610.64	49.92	74.00	-24.08	41.95	5.01	38.38	35.42	Peak	100	182	HORIZONTAL
2	10621.12	36.82	54.00	-17.18	28.85	5.01	38.38	35.42	Average	100	182	HORIZONTAL
3	15922.47	50.06	74.00	-23.94	42.08	6.15	37.27	35.44	Peak	100	356	HORIZONTAL
4	15924.87	37.39	54.00	-16.61	29.41	6.15	37.27	35.44	Average	100	356	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10611.99	50.21	74.00	-23.79	42.24	5.01	38.38	35.42	Peak	100	88	VERTICAL
2	10617.08	36.84	54.00	-17.16	28.87	5.01	38.38	35.42	Average	100	88	VERTICAL
3	15929.20	49.93	74.00	-24.07	41.95	6.15	37.27	35.44	Peak	100	177	VERTICAL
4	15939.39	37.25	54.00	-16.75	29.29	6.15	37.25	35.44	Average	100	177	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 102 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11014.78	49.96	74.00	-24.04	41.72	5.02	38.33	35.11	Peak	100	96	HORIZONTAL
2	11015.06	36.69	54.00	-17.31	28.45	5.02	38.33	35.11	Average	100	96	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11024.46	36.72	54.00	-17.28	28.48	5.02	38.33	35.11	Average	100	228	VERTICAL
2	11026.09	49.48	74.00	-24.52	41.24	5.02	38.33	35.11	Peak	100	228	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 110 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11093.08	37.22	54.00	-16.78	28.93	5.03	38.40	35.14	Average	100	160	HORIZONTAL
2	11093.08	50.00	74.00	-24.00	41.71	5.03	38.40	35.14	Peak	100	160	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11096.03	37.53	54.00	-16.47	29.24	5.03	38.40	35.14	Average	100	266	VERTICAL
2	11100.13	50.16	74.00	-23.84	41.87	5.03	38.40	35.14	Peak	100	266	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11331.60	51.38	74.00	-22.62	42.90	5.08	38.63	35.23	Peak	100	44	HORIZONTAL
2	11337.02	38.16	54.00	-15.84	29.69	5.08	38.63	35.24	Average	100	44	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11339.46	38.03	54.00	-15.97	29.56	5.08	38.63	35.24	Average	100	148	VERTICAL
2	11349.07	50.93	74.00	-23.07	42.43	5.09	38.65	35.24	Peak	100	148	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 142 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11414.42	50.73	74.00	-23.27	42.17	5.10	38.72	35.26	Peak	100	300	HORIZONTAL
2	11415.96	38.64	54.00	-15.36	30.08	5.10	38.72	35.26	Average	100	300	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.06	50.57	74.00	-23.43	42.02	5.10	38.70	35.25	Peak	100	135	VERTICAL
2	11419.17	38.85	54.00	-15.15	30.29	5.10	38.72	35.26	Average	100	135	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 38 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15569.25	36.17	54.00	-17.83	27.74	6.13	37.63	35.33	Average	100	283	HORIZONTAL
2	15569.89	48.47	74.00	-25.53	40.04	6.13	37.63	35.33	Peak	100	283	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15569.96	48.42	74.00	-25.58	39.97	6.13	37.65	35.33	Peak	100	184	VERTICAL
2	15570.00	35.84	54.00	-18.16	27.39	6.13	37.65	35.33	Average	100	184	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15689.46	49.15	74.00	-24.85	40.87	6.14	37.51	35.37	Peak	100	292	HORIZONTAL
2	15690.52	36.02	54.00	-17.98	27.74	6.14	37.51	35.37	Average	100	292	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15690.21	35.98	54.00	-18.02	27.70	6.14	37.51	35.37	Average	100	174	VERTICAL
2	15690.58	49.67	74.00	-24.33	41.39	6.14	37.51	35.37	Peak	100	174	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 54 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15809.61	47.71	74.00	-26.29	39.61	6.14	37.39	35.43	Peak	100	360	HORIZONTAL
2	15810.69	37.49	54.00	-16.51	29.41	6.14	37.37	35.43	Average	100	360	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15810.22	48.03	74.00	-25.97	39.93	6.14	37.39	35.43	Peak	100	189	VERTICAL
2	15810.30	35.61	54.00	-18.39	27.51	6.14	37.39	35.43	Average	100	189	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10619.50	35.30	54.00	-18.70	27.33	5.01	38.38	35.42	Average	100	88	HORIZONTAL
2	10619.93	49.02	74.00	-24.98	41.05	5.01	38.38	35.42	Peak	100	88	HORIZONTAL
3	15930.09	48.71	74.00	-25.29	40.75	6.15	37.25	35.44	Peak	100	223	HORIZONTAL
4	15930.17	36.98	54.00	-17.02	29.02	6.15	37.25	35.44	Average	100	223	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10619.95	35.68	54.00	-18.32	27.71	5.01	38.38	35.42	Average	100	123	VERTICAL
2	10620.00	48.34	74.00	-25.66	40.37	5.01	38.38	35.42	Peak	100	123	VERTICAL
3	15929.90	48.92	74.00	-25.08	40.96	6.15	37.25	35.44	Peak	100	285	VERTICAL
4	15930.11	36.07	54.00	-17.93	28.11	6.15	37.25	35.44	Average	100	285	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 102 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11019.82	49.76	74.00	-24.24	41.52	5.02	38.33	35.11	Peak	100	168	HORIZONTAL
2	11020.01	36.68	54.00	-17.32	28.44	5.02	38.33	35.11	Average	100	168	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11019.79	48.70	74.00	-25.30	40.47	5.02	38.32	35.11	Peak	100	303	VERTICAL
2	11020.48	35.93	54.00	-18.07	27.70	5.02	38.32	35.11	Average	100	303	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 110 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	7399.87	48.76	74.00	-25.24	43.97	4.06	36.13	35.40	Peak	100	93	HORIZONTAL
2	7399.93	42.59	54.00	-11.41	37.80	4.06	36.13	35.40	Average	100	93	HORIZONTAL
3	11099.60	48.59	74.00	-25.41	40.30	5.03	38.40	35.14	Peak	100	177	HORIZONTAL
4	11099.74	36.47	54.00	-17.53	28.18	5.03	38.40	35.14	Average	100	177	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	7399.24	48.91	74.00	-25.09	44.12	4.06	36.13	35.40	Peak	100	50	VERTICAL
2	7400.00	37.56	54.00	-16.44	32.77	4.06	36.13	35.40	Average	100	50	VERTICAL
3	11099.02	36.33	54.00	-17.67	28.04	5.03	38.40	35.14	Average	100	237	VERTICAL
4	11100.59	48.94	74.00	-25.06	40.65	5.03	38.40	35.14	Peak	100	237	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	7559.94	40.51	54.00	-13.49	35.49	4.08	36.35	35.41	Average	101	88	HORIZONTAL
2	7560.02	49.81	74.00	-24.19	44.79	4.08	36.35	35.41	Peak	101	88	HORIZONTAL
3	11338.24	49.00	74.00	-25.00	40.53	5.08	38.63	35.24	Peak	100	222	HORIZONTAL
4	11339.50	36.65	54.00	-17.35	28.18	5.08	38.63	35.24	Average	100	222	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	7559.49	47.01	74.00	-26.99	41.99	4.08	36.35	35.41	Peak	100	85	VERTICAL
2	7559.88	36.23	54.00	-17.77	31.21	4.08	36.35	35.41	Average	100	85	VERTICAL
3	11341.09	37.81	54.00	-16.19	29.33	5.09	38.63	35.24	Average	100	302	VERTICAL
4	11344.58	50.03	74.00	-23.97	41.55	5.09	38.63	35.24	Peak	100	302	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 142 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11428.08	38.05	54.00	-15.95	29.49	5.10	38.72	35.26	Average	100	262	HORIZONTAL
2	11428.43	49.89	74.00	-24.11	41.33	5.10	38.72	35.26	Peak	100	262	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11418.91	38.33	54.00	-15.67	29.77	5.10	38.72	35.26	Average	100	100	VERTICAL
2	11422.98	51.44	74.00	-22.56	42.88	5.10	38.72	35.26	Peak	100	100	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 42 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15634.97	37.78	54.00	-16.22	29.43	6.14	37.56	35.35	Average	100	220	HORIZONTAL
2	15635.93	50.33	74.00	-23.67	41.98	6.14	37.56	35.35	Peak	100	220	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15628.59	37.64	54.00	-16.36	29.29	6.14	37.56	35.35	Average	100	61	VERTICAL
2	15629.42	50.76	74.00	-23.24	42.41	6.14	37.56	35.35	Peak	100	61	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 58 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15876.67	37.67	54.00	-16.33	29.65	6.14	37.32	35.44	Average	100	76	HORIZONTAL
2	15878.17	51.03	74.00	-22.97	43.01	6.14	37.32	35.44	Peak	100	76	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15865.45	37.71	54.00	-16.29	29.70	6.14	37.32	35.45	Average	100	204	VERTICAL
2	15875.26	50.32	74.00	-23.68	42.30	6.14	37.32	35.44	Peak	100	204	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 25, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11056.76	36.78	54.00	-17.22	28.52	5.02	38.37	35.13	Average	100	244	HORIZONTAL
2	11069.01	50.37	74.00	-23.63	42.10	5.03	38.37	35.13	Peak	100	244	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11052.28	49.52	74.00	-24.48	41.27	5.02	38.35	35.12	Peak	100	109	VERTICAL
2	11064.65	36.69	54.00	-17.31	28.42	5.03	38.37	35.13	Average	100	109	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 138 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11402.84	49.69	74.00	-24.31	41.14	5.10	38.70	35.25	Peak	100	236	HORIZONTAL
2	11403.64	38.34	54.00	-15.66	29.79	5.10	38.70	35.25	Average	100	236	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11396.75	51.15	74.00	-22.85	42.62	5.10	38.68	35.25	Peak	100	95	VERTICAL
2	11399.55	38.01	54.00	-15.99	29.46	5.10	38.70	35.25	Average	100	95	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 42 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15623.72	36.92	54.00	-17.08	28.58	6.13	37.56	35.35	Average	100	235	HORIZONTAL
2	15651.28	48.93	74.00	-25.07	40.61	6.14	37.54	35.36	Peak	100	235	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15638.97	36.87	54.00	-17.13	28.52	6.14	37.56	35.35	Average	100	131	VERTICAL
2	15641.15	49.81	74.00	-24.19	41.49	6.14	37.54	35.36	Peak	100	131	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 58 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10611.25	36.73	54.00	-17.27	28.76	5.01	38.38	35.42	Average	100	272	HORIZONTAL
2	10649.71	48.92	74.00	-25.08	40.91	5.01	38.37	35.37	Peak	100	272	HORIZONTAL
3	15860.00	36.33	54.00	-17.67	28.30	6.14	37.34	35.45	Average	100	121	HORIZONTAL
4	15870.51	49.35	74.00	-24.65	41.33	6.14	37.32	35.44	Peak	100	121	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10604.04	36.35	54.00	-17.65	28.38	5.01	38.38	35.42	Average	100	136	VERTICAL
2	10605.00	48.06	74.00	-25.94	40.09	5.01	38.38	35.42	Peak	100	136	VERTICAL
3	15862.00	35.93	54.00	-18.07	27.92	6.14	37.32	35.45	Average	100	220	VERTICAL
4	15876.67	48.62	74.00	-25.38	40.60	6.14	37.32	35.44	Peak	100	220	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4915.44	49.21	74.00	-24.79	47.65	3.35	33.23	35.02	Peak	107	102	HORIZONTAL
2	4915.50	44.69	54.00	-9.31	43.13	3.35	33.23	35.02	Average	107	102	HORIZONTAL
3	11044.62	49.02	74.00	-24.98	40.76	5.02	38.36	35.12	Peak	100	237	HORIZONTAL
4	11059.44	37.23	54.00	-16.77	28.97	5.02	38.37	35.13	Average	100	237	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4915.36	30.75	54.00	-23.25	29.19	3.35	33.23	35.02	Average	100	37	VERTICAL
2	4915.72	44.70	74.00	-29.30	43.14	3.35	33.23	35.02	Peak	100	37	VERTICAL
3	11042.29	36.60	54.00	-17.40	28.35	5.02	38.35	35.12	Average	100	351	VERTICAL
4	11051.83	50.69	74.00	-23.31	42.44	5.02	38.35	35.12	Peak	100	351	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 138 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11357.64	37.72	54.00	-16.28	29.22	5.09	38.65	35.24	Average	100	274	HORIZONTAL
2	11371.35	51.20	74.00	-22.80	42.69	5.09	38.67	35.25	Peak	100	274	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11402.44	37.75	54.00	-16.25	29.20	5.10	38.70	35.25	Average	100	124	VERTICAL
2	11403.00	49.03	74.00	-24.97	40.48	5.10	38.70	35.25	Peak	100	124	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4964.00	48.66	74.00	-25.34	46.97	3.37	33.33	35.01	Peak	117	146	HORIZONTAL
2	4964.09	42.07	54.00	-11.93	40.38	3.37	33.33	35.01	Average	117	146	HORIZONTAL
3	15544.01	36.51	54.00	-17.49	28.04	6.13	37.65	35.31	Average	100	241	HORIZONTAL
4	15546.38	48.78	74.00	-25.22	40.31	6.13	37.65	35.31	Peak	100	241	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	4963.81	44.85	74.00	-29.15	43.16	3.37	33.33	35.01	Peak	100	277	VERTICAL
2	4964.02	30.44	54.00	-23.56	28.75	3.37	33.33	35.01	Average	100	277	VERTICAL
3	15539.90	36.39	54.00	-17.61	27.88	6.13	37.69	35.31	Average	100	120	VERTICAL
4	15545.00	48.87	74.00	-25.13	40.36	6.13	37.69	35.31	Peak	100	120	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15600.07	49.36	74.00	-24.64	40.97	6.13	37.60	35.34	Peak	100	241	HORIZONTAL
2	15600.27	36.25	54.00	-17.75	27.86	6.13	37.60	35.34	Average	100	241	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15599.80	49.13	74.00	-24.87	40.74	6.13	37.60	35.34	Peak	100	176	VERTICAL
2	15600.30	36.48	54.00	-17.52	28.09	6.13	37.60	35.34	Average	100	176	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 15, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10475.03	46.20	54.00	-7.80	38.33	5.00	38.39	35.52	Average	121	320	HORIZONTAL
2	10475.16	61.62	74.00	-12.38	53.75	5.00	38.39	35.52	Peak	121	320	HORIZONTAL
3	15720.10	37.59	54.00	-16.41	29.36	6.14	37.48	35.39	Average	101	39	HORIZONTAL
4	15725.87	51.12	74.00	-22.88	42.91	6.14	37.46	35.39	Peak	101	39	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10476.99	42.26	54.00	-11.74	34.38	5.00	38.40	35.52	Average	101	322	VERTICAL
2	10477.02	59.54	74.00	-14.46	51.66	5.00	38.40	35.52	Peak	101	322	VERTICAL
3	15716.41	50.81	74.00	-23.19	42.58	6.14	37.48	35.39	Peak	101	78	VERTICAL
4	15724.49	37.65	54.00	-16.35	29.42	6.14	37.48	35.39	Average	101	78	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 15, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10522.76	62.41	74.00	-11.59	54.48	5.01	38.40	35.48	Peak	127	319	HORIZONTAL
2	10523.72	46.01	54.00	-7.99	38.08	5.01	38.40	35.48	Average	127	319	HORIZONTAL
3	15780.13	38.21	54.00	-15.79	30.08	6.14	37.41	35.42	Average	100	18	HORIZONTAL
4	15786.12	49.93	74.00	-24.07	41.80	6.14	37.41	35.42	Peak	100	18	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10516.15	42.05	54.00	-11.95	34.15	5.01	38.39	35.50	Average	100	322	VERTICAL
2	10526.47	57.99	74.00	-16.01	50.07	5.01	38.39	35.48	Peak	100	322	VERTICAL
3	15779.71	37.49	54.00	-16.51	29.36	6.14	37.41	35.42	Average	100	76	VERTICAL
4	15781.22	49.47	74.00	-24.53	41.34	6.14	37.41	35.42	Peak	100	76	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.80	36.02	54.00	-17.98	28.05	5.01	38.38	35.42	Average	100	316	HORIZONTAL
2	10604.46	49.15	74.00	-24.85	41.18	5.01	38.38	35.42	Peak	100	316	HORIZONTAL
3	15892.60	47.98	74.00	-26.02	39.97	6.15	37.30	35.44	Peak	100	236	HORIZONTAL
4	15893.24	35.99	54.00	-18.01	27.98	6.15	37.30	35.44	Average	100	236	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.61	36.42	54.00	-17.58	28.45	5.01	38.38	35.42	Average	100	155	VERTICAL
2	10600.99	49.72	74.00	-24.28	41.75	5.01	38.38	35.42	Peak	100	155	VERTICAL
3	15891.25	36.29	54.00	-17.71	28.28	6.15	37.30	35.44	Average	100	339	VERTICAL
4	15892.36	48.40	74.00	-25.60	40.39	6.15	37.30	35.44	Peak	100	339	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10637.77	36.08	54.00	-17.92	28.09	5.01	38.37	35.39	Average	100	290	HORIZONTAL
2	10639.44	49.03	74.00	-24.97	41.04	5.01	38.37	35.39	Peak	100	290	HORIZONTAL
3	15958.09	35.23	54.00	-18.77	27.29	6.15	37.23	35.44	Average	100	290	HORIZONTAL
4	15958.09	48.01	74.00	-25.99	40.07	6.15	37.23	35.44	Peak	100	134	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10638.57	36.07	54.00	-17.93	28.08	5.01	38.37	35.39	Average	100	305	VERTICAL
2	10639.20	49.38	74.00	-24.62	41.39	5.01	38.37	35.39	Peak	100	305	VERTICAL
3	15959.86	48.39	74.00	-25.61	40.45	6.15	37.23	35.44	Peak	100	193	VERTICAL
4	15963.61	35.59	54.00	-18.41	27.65	6.15	37.23	35.44	Average	100	193	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10997.96	49.55	74.00	-24.45	41.32	5.01	38.32	35.10	Peak	100	231	HORIZONTAL
2	11001.20	37.10	54.00	-16.90	28.87	5.01	38.32	35.10	Average	100	231	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11001.65	50.82	74.00	-23.18	42.61	5.01	38.30	35.10	Peak	100	114	VERTICAL
2	11001.79	35.67	54.00	-18.33	27.46	5.01	38.30	35.10	Average	100	114	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 15, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5112.66	53.32	54.00	-0.68	51.31	3.42	33.61	35.02	Average	154	92	HORIZONTAL
2	5113.30	64.50	74.00	-9.50	62.49	3.42	33.61	35.02	Peak	154	92	HORIZONTAL
3	11164.68	40.36	54.00	-13.64	32.01	5.05	38.47	35.17	Average	147	316	HORIZONTAL
4	11164.84	54.86	74.00	-19.14	46.51	5.05	38.47	35.17	Peak	147	316	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5116.25	43.72	54.00	-10.28	41.71	3.42	33.61	35.02	Average	104	336	VERTICAL
2	5116.44	54.75	74.00	-19.25	52.74	3.42	33.61	35.02	Peak	104	336	VERTICAL
3	11157.24	53.08	74.00	-20.92	44.75	5.04	38.45	35.16	Peak	100	86	VERTICAL
4	11166.83	39.17	54.00	-14.83	30.82	5.05	38.47	35.17	Average	100	86	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 16, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	7599.88	42.82	54.00	-11.18	37.75	4.10	36.39	35.42	Average	100	106	HORIZONTAL
2	7600.02	48.99	74.00	-25.01	43.92	4.10	36.39	35.42	Peak	100	106	HORIZONTAL
3	11399.99	39.38	54.00	-14.62	30.83	5.10	38.70	35.25	Average	100	45	HORIZONTAL
4	11400.46	51.46	74.00	-22.54	42.91	5.10	38.70	35.25	Peak	100	45	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	7599.66	47.53	74.00	-26.47	42.46	4.10	36.39	35.42	Peak	100	168	VERTICAL
2	7599.77	35.27	54.00	-18.73	30.20	4.10	36.39	35.42	Average	100	168	VERTICAL
3	11400.41	50.21	74.00	-23.79	41.66	5.10	38.70	35.25	Peak	100	265	VERTICAL
4	11400.69	37.70	54.00	-16.30	29.15	5.10	38.70	35.25	Average	100	265	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 2 (Ant.3 Omnidirectional antenna / 6.7dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11437.24	53.72	74.00	-20.28	45.15	5.10	38.73	35.26	Peak	114	82	HORIZONTAL
2	11437.56	40.49	54.00	-13.51	31.92	5.10	38.73	35.26	Average	114	82	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11438.43	52.95	74.00	-21.05	44.39	5.10	38.73	35.27	Peak	101	257	VERTICAL
2	11439.81	39.63	54.00	-14.37	31.07	5.10	38.73	35.27	Average	101	257	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 02, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15540.00	37.12	54.00	-16.88	28.65	6.13	37.65	35.31	Average	100	176	HORIZONTAL
2	15542.21	49.73	74.00	-24.27	41.26	6.13	37.65	35.31	Peak	100	176	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15530.61	49.71	74.00	-24.29	41.14	6.13	37.73	35.29	Peak	100	120	VERTICAL
2	15548.69	37.05	54.00	-16.95	28.54	6.13	37.69	35.31	Average	100	120	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 02, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15598.85	36.77	54.00	-17.23	28.38	6.13	37.60	35.34	Average	100	200	HORIZONTAL
2	15601.70	50.27	74.00	-23.73	41.88	6.13	37.60	35.34	Peak	100	200	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15598.56	49.51	74.00	-24.49	41.12	6.13	37.60	35.34	Peak	100	113	VERTICAL
2	15605.03	36.71	54.00	-17.29	28.32	6.13	37.60	35.34	Average	100	113	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 02, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15722.34	49.49	74.00	-24.51	41.26	6.14	37.48	35.39	Peak	100	249	HORIZONTAL
2	15722.37	36.73	54.00	-17.27	28.50	6.14	37.48	35.39	Average	100	249	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15717.98	37.17	54.00	-16.83	28.94	6.14	37.48	35.39	Average	100	339	VERTICAL
2	15719.90	49.50	74.00	-24.50	41.27	6.14	37.48	35.39	Peak	100	339	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.38	45.55	54.00	-8.45	32.54	10.80	37.75	35.54	Average	100	4	HORIZONTAL
2	15781.24	59.26	74.00	-14.74	46.25	10.80	37.75	35.54	Peak	100	4	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15775.94	44.21	54.00	-9.79	31.18	10.80	37.77	35.54	Average	100	6	VERTICAL
2	15777.28	57.58	74.00	-16.42	44.57	10.80	37.75	35.54	Peak	100	6	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10602.96	52.36	74.00	-21.64	38.94	8.64	39.90	35.12	Peak	100	4	HORIZONTAL
2	10603.44	40.49	54.00	-13.51	27.07	8.64	39.90	35.12	Average	100	4	HORIZONTAL
3	15897.12	44.47	54.00	-9.53	31.62	10.81	37.56	35.52	Average	100	28	HORIZONTAL
4	15898.56	57.58	74.00	-16.42	44.73	10.81	37.56	35.52	Peak	100	28	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.88	40.22	54.00	-13.78	26.82	8.64	39.90	35.14	Average	100	8	VERTICAL
2	10601.76	52.99	74.00	-21.01	39.57	8.64	39.90	35.12	Peak	100	8	VERTICAL
3	15898.56	57.03	74.00	-16.97	44.18	10.81	37.56	35.52	Peak	100	3	VERTICAL
4	15899.76	44.38	54.00	-9.62	31.53	10.81	37.56	35.52	Average	100	3	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10637.14	40.59	54.00	-13.41	27.16	8.66	39.86	35.09	Average	100	7	HORIZONTAL
2	10643.36	53.32	74.00	-20.68	39.89	8.66	39.86	35.09	Peak	100	7	HORIZONTAL
3	15955.78	44.47	54.00	-9.53	31.68	10.82	37.48	35.51	Average	100	3	HORIZONTAL
4	15958.62	57.99	74.00	-16.01	45.20	10.82	37.48	35.51	Peak	100	3	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10640.00	54.60	74.00	-19.40	41.17	8.66	39.86	35.09	Peak	100	1	VERTICAL
2	10641.04	40.48	54.00	-13.52	27.05	8.66	39.86	35.09	Average	100	1	VERTICAL
3	15959.38	44.20	54.00	-9.80	31.41	10.82	37.48	35.51	Average	100	25	VERTICAL
4	15961.58	54.20	74.00	-19.80	41.41	10.82	37.48	35.51	Peak	100	25	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.80	54.00	74.00	-20.00	40.37	8.93	39.50	34.80	Peak	100	13	HORIZONTAL
2	11001.98	40.83	54.00	-13.17	27.20	8.93	39.50	34.80	Average	100	13	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10996.52	40.74	54.00	-13.26	27.11	8.93	39.50	34.80	Average	100	2	VERTICAL
2	11004.48	53.80	74.00	-20.20	40.17	8.93	39.50	34.80	Peak	100	2	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11155.66	54.51	74.00	-19.49	40.87	9.03	39.50	34.89	Peak	100	1	HORIZONTAL
2	11158.18	40.79	54.00	-13.21	27.14	9.04	39.50	34.89	Average	100	1	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11155.38	40.93	54.00	-13.07	27.29	9.03	39.50	34.89	Average	100	2	VERTICAL
2	11158.92	54.43	74.00	-19.57	40.78	9.04	39.50	34.89	Peak	100	2	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11395.00	41.17	54.00	-12.83	27.53	9.18	39.50	35.04	Average	100	2	HORIZONTAL
2	11402.24	53.59	74.00	-20.41	39.94	9.19	39.50	35.04	Peak	100	2	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11395.56	41.48	54.00	-12.52	27.83	9.19	39.50	35.04	Average	100	11	VERTICAL
2	11397.88	54.54	74.00	-19.46	40.89	9.19	39.50	35.04	Peak	100	11	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11436.55	52.80	74.00	-21.20	44.23	5.10	38.73	35.26	Peak	100	121	HORIZONTAL
2	11438.80	40.61	54.00	-13.39	32.05	5.10	38.73	35.27	Average	100	121	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11440.19	40.39	54.00	-13.61	31.83	5.10	38.73	35.27	Average	100	116	VERTICAL
2	11441.15	53.34	74.00	-20.66	44.78	5.10	38.73	35.27	Peak	100	116	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 03, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15533.91	38.11	54.00	-15.89	29.60	6.13	37.67	35.29	Average	100	174	HORIZONTAL
2	15535.71	51.53	74.00	-22.47	43.02	6.13	37.67	35.29	Peak	100	174	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15544.26	38.13	54.00	-15.87	29.62	6.13	37.69	35.31	Average	100	34	VERTICAL
2	15549.26	50.98	74.00	-23.02	42.47	6.13	37.69	35.31	Peak	100	34	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 03, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15591.60	50.47	74.00	-23.53	42.08	6.13	37.60	35.34	Peak	100	176	HORIZONTAL
2	15606.47	37.95	54.00	-16.05	29.58	6.13	37.58	35.34	Average	100	176	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15595.38	50.51	74.00	-23.49	42.12	6.13	37.60	35.34	Peak	100	282	VERTICAL
2	15597.40	37.94	54.00	-16.06	29.55	6.13	37.60	35.34	Average	100	282	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 03, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15718.40	50.92	74.00	-23.08	42.69	6.14	37.48	35.39	Peak	100	173	HORIZONTAL
2	15718.56	38.30	54.00	-15.70	30.07	6.14	37.48	35.39	Average	100	173	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15718.40	38.18	54.00	-15.82	29.95	6.14	37.48	35.39	Average	100	64	VERTICAL
2	15719.62	50.95	74.00	-23.05	42.72	6.14	37.48	35.39	Peak	100	64	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15780.24	57.16	74.00	-16.84	44.15	10.80	37.75	35.54	Peak	100	3	HORIZONTAL
2	15786.88	44.73	54.00	-9.27	31.72	10.80	37.75	35.54	Average	100	3	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15775.28	57.70	74.00	-16.30	44.67	10.80	37.77	35.54	Peak	100	208	VERTICAL
2	15779.72	44.18	54.00	-9.82	31.17	10.80	37.75	35.54	Average	100	208	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.76	40.12	54.00	-13.88	26.72	8.64	39.90	35.14	Average	100	10	HORIZONTAL
2	10600.88	52.18	74.00	-21.82	38.78	8.64	39.90	35.14	Peak	100	10	HORIZONTAL
3	15890.00	55.90	74.00	-18.10	43.02	10.81	37.59	35.52	Peak	100	2	HORIZONTAL
4	15900.36	43.89	54.00	-10.11	31.04	10.81	37.56	35.52	Average	100	2	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10592.64	39.77	54.00	-14.23	26.38	8.62	39.91	35.14	Average	100	2	VERTICAL
2	10601.08	53.31	74.00	-20.69	39.91	8.64	39.90	35.14	Peak	100	2	VERTICAL
3	15893.12	57.26	74.00	-16.74	44.38	10.81	37.59	35.52	Peak	100	6	VERTICAL
4	15898.44	44.23	54.00	-9.77	31.38	10.81	37.56	35.52	Average	100	6	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10637.76	53.24	74.00	-20.76	39.81	8.66	39.86	35.09	Peak	100	9	HORIZONTAL
2	10639.16	40.11	54.00	-13.89	26.68	8.66	39.86	35.09	Average	100	9	HORIZONTAL
3	15958.48	44.00	54.00	-10.00	31.21	10.82	37.48	35.51	Average	100	1	HORIZONTAL
4	15959.20	57.54	74.00	-16.46	44.75	10.82	37.48	35.51	Peak	100	1	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10638.96	53.40	74.00	-20.60	39.97	8.66	39.86	35.09	Peak	100	33	VERTICAL
2	10642.56	40.19	54.00	-13.81	26.76	8.66	39.86	35.09	Average	100	33	VERTICAL
3	15960.00	44.09	54.00	-9.91	31.30	10.82	37.48	35.51	Average	100	2	VERTICAL
4	15966.68	58.03	74.00	-15.97	45.27	10.82	37.45	35.51	Peak	100	2	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10998.04	53.63	74.00	-20.37	40.00	8.93	39.50	34.80	Peak	100	2	HORIZONTAL
2	11006.56	40.70	54.00	-13.30	27.06	8.94	39.50	34.80	Average	100	2	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10990.00	40.23	54.00	-13.77	26.60	8.93	39.50	34.80	Average	100	14	VERTICAL
2	10992.20	53.56	74.00	-20.44	39.93	8.93	39.50	34.80	Peak	100	14	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11158.76	41.27	54.00	-12.73	27.62	9.04	39.50	34.89	Average	100	46	HORIZONTAL
2	11161.56	55.18	74.00	-18.82	41.53	9.04	39.50	34.89	Peak	100	46	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11152.56	40.87	54.00	-13.13	27.23	9.03	39.50	34.89	Average	100	3	VERTICAL
2	11160.04	53.76	74.00	-20.24	40.11	9.04	39.50	34.89	Peak	100	3	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11400.28	40.98	54.00	-13.02	27.33	9.19	39.50	35.04	Average	100	1	HORIZONTAL
2	11402.04	54.80	74.00	-19.20	41.15	9.19	39.50	35.04	Peak	100	1	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11391.52	54.28	74.00	-19.72	40.62	9.18	39.50	35.02	Peak	100	47	VERTICAL
2	11392.28	41.25	54.00	-12.75	27.59	9.18	39.50	35.02	Average	100	47	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11437.50	52.57	74.00	-21.43	44.00	5.10	38.73	35.26	Peak	100	119	HORIZONTAL
2	11440.96	40.03	54.00	-13.97	31.47	5.10	38.73	35.27	Average	100	119	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.62	41.54	54.00	-12.46	32.98	5.10	38.73	35.27	Average	100	122	VERTICAL
2	11440.77	53.93	74.00	-20.07	45.37	5.10	38.73	35.27	Peak	100	122	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 38 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 02, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15575.45	37.02	54.00	-16.98	28.61	6.13	37.61	35.33	Average	100	209	HORIZONTAL
2	15577.12	49.44	74.00	-24.56	41.03	6.13	37.61	35.33	Peak	100	209	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15564.62	37.21	54.00	-16.79	28.76	6.13	37.65	35.33	Average	100	118	VERTICAL
2	15569.49	50.06	74.00	-23.94	41.61	6.13	37.65	35.33	Peak	100	118	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 02, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15691.54	49.85	74.00	-24.15	41.60	6.14	37.49	35.38	Peak	100	176	HORIZONTAL
2	15694.10	36.85	54.00	-17.15	28.60	6.14	37.49	35.38	Average	100	176	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15695.19	48.97	74.00	-25.03	40.72	6.14	37.49	35.38	Peak	100	52	VERTICAL
2	15696.67	36.89	54.00	-17.11	28.64	6.14	37.49	35.38	Average	100	52	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 54 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15801.12	44.65	54.00	-9.35	31.67	10.80	37.72	35.54	Average	100	355	HORIZONTAL
2	15804.24	57.54	74.00	-16.46	44.56	10.80	37.72	35.54	Peak	100	355	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15807.52	56.45	74.00	-17.55	43.47	10.80	37.72	35.54	Peak	100	3	VERTICAL
2	15816.32	44.91	54.00	-9.09	31.95	10.80	37.69	35.53	Average	100	3	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10625.40	40.43	54.00	-13.57	27.02	8.65	39.88	35.12	Average	100	2	HORIZONTAL
2	10629.56	53.27	74.00	-20.73	39.83	8.65	39.88	35.09	Peak	100	2	HORIZONTAL
3	15925.64	57.32	74.00	-16.68	44.49	10.81	37.53	35.51	Peak	100	9	HORIZONTAL
4	15929.92	44.63	54.00	-9.37	31.82	10.81	37.51	35.51	Average	100	9	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10628.08	40.22	54.00	-13.78	26.78	8.65	39.88	35.09	Average	100	5	VERTICAL
2	10629.60	53.26	74.00	-20.74	39.82	8.65	39.88	35.09	Peak	100	5	VERTICAL
3	15923.72	57.77	74.00	-16.23	44.94	10.81	37.53	35.51	Peak	100	1	VERTICAL
4	15930.52	44.32	54.00	-9.68	31.51	10.81	37.51	35.51	Average	100	1	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 102 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11018.56	53.34	74.00	-20.66	39.71	8.94	39.50	34.81	Peak	100	12	HORIZONTAL
2	11027.72	40.77	54.00	-13.23	27.13	8.95	39.50	34.81	Average	100	12	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11026.00	53.92	74.00	-20.08	40.28	8.95	39.50	34.81	Peak	100	4	VERTICAL
2	11028.40	40.80	54.00	-13.20	27.16	8.95	39.50	34.81	Average	100	4	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 110 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11091.08	41.25	54.00	-12.75	27.62	8.99	39.50	34.86	Average	100	28	HORIZONTAL
2	11096.00	53.86	74.00	-20.14	40.23	8.99	39.50	34.86	Peak	100	28	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11102.60	53.98	74.00	-20.02	40.35	8.99	39.50	34.86	Peak	100	7	VERTICAL
2	11103.32	41.23	54.00	-12.77	27.60	8.99	39.50	34.86	Average	100	7	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11337.56	53.38	74.00	-20.62	39.73	9.14	39.50	34.99	Peak	100	2	HORIZONTAL
2	11339.00	41.08	54.00	-12.92	27.43	9.14	39.50	34.99	Average	100	2	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11335.12	54.58	74.00	-19.42	40.93	9.14	39.50	34.99	Peak	100	19	VERTICAL
2	11339.40	41.07	54.00	-12.93	27.42	9.14	39.50	34.99	Average	100	19	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 142 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11408.01	52.12	74.00	-21.88	43.57	5.10	38.70	35.25	Peak	100	119	HORIZONTAL
2	11418.33	39.54	54.00	-14.46	30.98	5.10	38.72	35.26	Average	100	119	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11414.74	39.28	54.00	-14.72	30.72	5.10	38.72	35.26	Average	100	117	VERTICAL
2	11419.55	51.61	74.00	-22.39	43.05	5.10	38.72	35.26	Peak	100	117	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 38 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 03, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15561.03	37.95	54.00	-16.05	29.50	6.13	37.63	35.31	Average	100	156	HORIZONTAL
2	15562.31	51.21	74.00	-22.79	42.76	6.13	37.63	35.31	Peak	100	156	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15565.51	38.18	54.00	-15.82	29.73	6.13	37.65	35.33	Average	100	300	VERTICAL
2	15575.03	50.87	74.00	-23.13	42.46	6.13	37.61	35.33	Peak	100	300	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 03, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15695.16	51.02	74.00	-22.98	42.77	6.14	37.49	35.38	Peak	100	166	HORIZONTAL
2	15698.78	38.05	54.00	-15.95	29.80	6.14	37.49	35.38	Average	100	166	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15696.31	38.09	54.00	-15.91	29.84	6.14	37.49	35.38	Average	100	87	VERTICAL
2	15699.78	51.16	74.00	-22.84	42.91	6.14	37.49	35.38	Peak	100	87	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 54 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15802.72	44.64	54.00	-9.36	31.66	10.80	37.72	35.54	Average	100	23	HORIZONTAL
2	15807.88	57.66	74.00	-16.34	44.68	10.80	37.72	35.54	Peak	100	23	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15814.12	44.53	54.00	-9.47	31.57	10.80	37.69	35.53	Average	100	57	VERTICAL
2	15818.60	58.03	74.00	-15.97	45.07	10.80	37.69	35.53	Peak	100	57	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10620.40	40.24	54.00	-13.76	26.83	8.65	39.88	35.12	Average	100	23	HORIZONTAL
2	10626.32	53.28	74.00	-20.72	39.87	8.65	39.88	35.12	Peak	100	23	HORIZONTAL
3	15933.08	44.25	54.00	-9.75	31.44	10.81	37.51	35.51	Average	100	5	HORIZONTAL
4	15934.64	57.05	74.00	-16.95	44.24	10.81	37.51	35.51	Peak	100	5	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10624.72	52.18	74.00	-21.82	38.77	8.65	39.88	35.12	Peak	100	3	VERTICAL
2	10628.16	40.30	54.00	-13.70	26.86	8.65	39.88	35.09	Average	100	3	VERTICAL
3	15927.44	57.89	74.00	-16.11	45.06	10.81	37.53	35.51	Peak	100	11	VERTICAL
4	15937.00	44.11	54.00	-9.89	31.30	10.81	37.51	35.51	Average	100	11	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 102 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11016.16	53.43	74.00	-20.57	39.80	8.94	39.50	34.81	Peak	100	8	HORIZONTAL
2	11024.44	40.57	54.00	-13.43	26.93	8.95	39.50	34.81	Average	100	8	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11016.32	53.33	74.00	-20.67	39.70	8.94	39.50	34.81	Peak	100	3	VERTICAL
2	11021.56	40.17	54.00	-13.83	26.53	8.95	39.50	34.81	Average	100	3	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 110 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11094.28	53.77	74.00	-20.23	40.14	8.99	39.50	34.86	Peak	100	20	HORIZONTAL
2	11101.72	41.34	54.00	-12.66	27.71	8.99	39.50	34.86	Average	100	20	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11093.04	41.22	54.00	-12.78	27.59	8.99	39.50	34.86	Average	100	7	VERTICAL
2	11095.08	54.30	74.00	-19.70	40.67	8.99	39.50	34.86	Peak	100	7	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11331.08	54.08	74.00	-19.92	40.43	9.14	39.50	34.99	Peak	100	2	HORIZONTAL
2	11334.80	40.61	54.00	-13.39	26.96	9.14	39.50	34.99	Average	100	2	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11336.96	40.23	54.00	-13.77	26.58	9.14	39.50	34.99	Average	100	14	VERTICAL
2	11344.28	54.73	74.00	-19.27	41.10	9.14	39.50	35.01	Peak	100	14	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 142 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11407.24	51.70	74.00	-22.30	43.15	5.10	38.70	35.25	Peak	100	121	HORIZONTAL
2	11418.46	39.04	54.00	-14.96	30.48	5.10	38.72	35.26	Average	100	121	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11415.06	38.96	54.00	-15.04	30.40	5.10	38.72	35.26	Average	100	118	VERTICAL
2	11430.00	52.29	74.00	-21.71	43.73	5.10	38.72	35.26	Peak	100	118	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 42 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 02, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15632.79	49.86	74.00	-24.14	41.51	6.14	37.56	35.35	Peak	100	172	HORIZONTAL
2	15644.86	36.77	54.00	-17.23	28.45	6.14	37.54	35.36	Average	100	172	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15630.87	49.82	74.00	-24.18	41.47	6.14	37.56	35.35	Peak	100	83	VERTICAL
2	15631.25	36.90	54.00	-17.10	28.55	6.14	37.56	35.35	Average	100	83	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 58 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15865.48	57.99	74.00	-16.01	45.10	10.81	37.61	35.53	Peak	100	24	HORIZONTAL
2	15876.60	44.75	54.00	-9.25	31.86	10.81	37.61	35.53	Average	100	24	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15868.80	44.59	54.00	-9.41	31.70	10.81	37.61	35.53	Average	100	4	VERTICAL
2	15874.60	58.19	74.00	-15.81	45.30	10.81	37.61	35.53	Peak	100	4	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11064.80	53.71	74.00	-20.29	40.08	8.97	39.50	34.84	Peak	100	2	HORIZONTAL
2	11066.44	40.84	54.00	-13.16	27.21	8.97	39.50	34.84	Average	100	2	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11054.44	41.07	54.00	-12.93	27.44	8.96	39.50	34.83	Average	100	9	VERTICAL
2	11067.92	54.03	74.00	-19.97	40.40	8.97	39.50	34.84	Peak	100	9	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 138 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.95	51.34	74.00	-22.66	42.79	5.10	38.70	35.25	Peak	100	125	HORIZONTAL
2	11402.28	38.39	54.00	-15.61	29.84	5.10	38.70	35.25	Average	100	125	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11374.52	50.72	74.00	-23.28	42.21	5.09	38.67	35.25	Peak	100	225	VERTICAL
2	11379.12	38.52	54.00	-15.48	30.01	5.09	38.67	35.25	Average	100	225	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 42 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 03, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15626.99	50.80	74.00	-23.20	42.45	6.14	37.56	35.35	Peak	100	241	HORIZONTAL
2	15628.72	38.03	54.00	-15.97	29.68	6.14	37.56	35.35	Average	100	241	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15625.93	51.33	74.00	-22.67	42.98	6.14	37.56	35.35	Peak	100	144	VERTICAL
2	15632.72	37.99	54.00	-16.01	29.64	6.14	37.56	35.35	Average	100	144	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 58 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15865.68	57.63	74.00	-16.37	44.74	10.81	37.61	35.53	Peak	100	3	HORIZONTAL
2	15870.40	44.56	54.00	-9.44	31.67	10.81	37.61	35.53	Average	100	3	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15868.92	57.74	74.00	-16.26	44.85	10.81	37.61	35.53	Peak	100	16	VERTICAL
2	15873.92	44.95	54.00	-9.05	32.06	10.81	37.61	35.53	Average	100	16	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 06, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11062.72	40.85	54.00	-13.15	27.22	8.97	39.50	34.84	Average	100	12	HORIZONTAL
2	11063.00	53.30	74.00	-20.70	39.67	8.97	39.50	34.84	Peak	100	12	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11056.40	54.24	74.00	-19.76	40.60	8.97	39.50	34.83	Peak	100	229	VERTICAL
2	11059.92	41.07	54.00	-12.93	27.43	8.97	39.50	34.83	Average	100	229	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 138 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11393.78	38.30	54.00	-15.70	29.77	5.10	38.68	35.25	Average	100	102	HORIZONTAL
2	11394.62	51.12	74.00	-22.88	42.59	5.10	38.68	35.25	Peak	100	102	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11396.28	49.79	74.00	-24.21	41.26	5.10	38.68	35.25	Peak	100	211	VERTICAL
2	11396.79	38.48	54.00	-15.52	29.95	5.10	38.68	35.25	Average	100	211	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 02, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15543.46	49.79	74.00	-24.21	41.32	6.13	37.65	35.31	Peak	100	207	HORIZONTAL
2	15549.65	37.13	54.00	-16.87	28.66	6.13	37.65	35.31	Average	100	207	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15531.25	49.88	74.00	-24.12	41.31	6.13	37.73	35.29	Peak	100	105	VERTICAL
2	15541.44	37.20	54.00	-16.80	28.69	6.13	37.69	35.31	Average	100	105	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 02, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15596.73	49.80	74.00	-24.20	41.41	6.13	37.60	35.34	Peak	100	191	HORIZONTAL
2	15603.46	37.06	54.00	-16.94	28.67	6.13	37.60	35.34	Average	100	191	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15598.88	49.76	74.00	-24.24	41.37	6.13	37.60	35.34	Peak	100	275	VERTICAL
2	15607.12	36.77	54.00	-17.23	28.40	6.13	37.58	35.34	Average	100	275	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 02, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15713.56	37.08	54.00	-16.92	28.84	6.14	37.48	35.38	Average	100	115	HORIZONTAL
2	15717.02	49.36	74.00	-24.64	41.13	6.14	37.48	35.39	Peak	100	115	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15716.44	36.92	54.00	-17.08	28.69	6.14	37.48	35.39	Average	100	161	VERTICAL
2	15724.42	50.00	74.00	-24.00	41.77	6.14	37.48	35.39	Peak	100	161	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15782.20	56.64	74.00	-17.36	43.63	10.80	37.75	35.54	Peak	100	357	HORIZONTAL
2	15783.36	44.51	54.00	-9.49	31.50	10.80	37.75	35.54	Average	100	357	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15785.16	43.97	54.00	-10.03	30.96	10.80	37.75	35.54	Average	100	225	VERTICAL
2	15787.52	57.12	74.00	-16.88	44.11	10.80	37.75	35.54	Peak	100	225	VERTICAL

Temperature	24.5℃	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.88	40.54	54.00	-13.46	27.14	8.64	39.90	35.14	Average	100	306	HORIZONTAL
2	10601.72	54.39	74.00	-19.61	40.97	8.64	39.90	35.12	Peak	100	306	HORIZONTAL
3	15898.86	57.78	74.00	-16.22	44.93	10.81	37.56	35.52	Peak	100	19	HORIZONTAL
4	15899.80	44.25	54.00	-9.75	31.40	10.81	37.56	35.52	Average	100	19	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.52	40.39	54.00	-13.61	26.99	8.64	39.90	35.14	Average	100	4	VERTICAL
2	10600.76	52.68	74.00	-21.32	39.28	8.64	39.90	35.14	Peak	100	4	VERTICAL
3	15893.44	57.79	74.00	-16.21	44.91	10.81	37.59	35.52	Peak	100	0	VERTICAL
4	15895.60	44.44	54.00	-9.56	31.59	10.81	37.56	35.52	Average	100	0	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10639.38	40.01	54.00	-13.99	26.58	8.66	39.86	35.09	Average	100	2	HORIZONTAL
2	10639.38	53.51	74.00	-20.49	40.08	8.66	39.86	35.09	Peak	100	2	HORIZONTAL
3	15956.52	44.37	54.00	-9.63	31.58	10.82	37.48	35.51	Average	100	7	HORIZONTAL
4	15963.88	56.71	74.00	-17.29	43.95	10.82	37.45	35.51	Peak	100	7	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10643.52	40.55	54.00	-13.45	27.12	8.66	39.86	35.09	Average	100	10	VERTICAL
2	10647.52	53.58	74.00	-20.42	40.16	8.67	39.84	35.09	Peak	100	10	VERTICAL
3	15965.00	44.52	54.00	-9.48	31.76	10.82	37.45	35.51	Average	100	3	VERTICAL
4	15965.68	57.85	74.00	-16.15	45.09	10.82	37.45	35.51	Peak	100	3	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10996.00	40.97	54.00	-13.03	27.34	8.93	39.50	34.80	Average	100	358	HORIZONTAL
2	10999.80	53.91	74.00	-20.09	40.28	8.93	39.50	34.80	Peak	100	358	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11000.38	40.28	54.00	-13.72	26.65	8.93	39.50	34.80	Average	100	360	VERTICAL
2	11003.64	54.64	74.00	-19.36	41.01	8.93	39.50	34.80	Peak	100	360	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.52	53.43	74.00	-20.57	39.78	9.04	39.50	34.89	Peak	100	12	HORIZONTAL
2	11159.92	41.93	54.00	-12.07	28.28	9.04	39.50	34.89	Average	100	12	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11159.52	41.15	54.00	-12.85	27.50	9.04	39.50	34.89	Average	100	2	VERTICAL
2	11161.10	54.57	74.00	-19.43	40.92	9.04	39.50	34.89	Peak	100	2	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	David Tseng	Configurations	IEEE 802.11a CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 05, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11397.80	41.48	54.00	-12.52	27.83	9.19	39.50	35.04	Average	100	2	HORIZONTAL
2	11399.48	54.76	74.00	-19.24	41.11	9.19	39.50	35.04	Peak	100	2	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11397.74	41.35	54.00	-12.65	27.70	9.19	39.50	35.04	Average	100	5	VERTICAL
2	11401.94	55.29	74.00	-18.71	41.64	9.19	39.50	35.04	Peak	100	5	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11a CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 20, 2013	Test Mode	Mode 3 (Ant.4 Panel antenna / 9.2dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11438.85	53.56	74.00	-20.44	45.00	5.10	38.73	35.27	Peak	100	122	HORIZONTAL
2	11442.74	40.93	54.00	-13.07	32.36	5.11	38.73	35.27	Average	100	122	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11439.28	54.17	74.00	-19.83	45.61	5.10	38.73	35.27	Peak	107	118	VERTICAL
2	11440.14	41.40	54.00	-12.60	32.84	5.10	38.73	35.27	Average	107	118	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15537.76	39.86	54.00	-14.14	31.37	6.13	37.65	35.29	Average	100	136	HORIZONTAL
2	15545.40	52.88	74.00	-21.12	44.41	6.13	37.65	35.31	Peak	100	136	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15538.88	39.98	54.00	-14.02	31.47	6.13	37.69	35.31	Average	100	326	VERTICAL
2	15539.88	52.81	74.00	-21.19	44.30	6.13	37.69	35.31	Peak	100	326	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15599.28	39.46	54.00	-14.54	31.07	6.13	37.60	35.34	Average	100	351	HORIZONTAL
2	15600.04	51.77	74.00	-22.23	43.38	6.13	37.60	35.34	Peak	100	351	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15598.28	51.94	74.00	-22.06	43.55	6.13	37.60	35.34	Peak	100	27	VERTICAL
2	15601.80	39.51	54.00	-14.49	31.12	6.13	37.60	35.34	Average	100	27	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10475.88	36.47	54.00	-17.53	28.60	5.00	38.39	35.52	Average	100	19	HORIZONTAL
2	10480.92	49.71	74.00	-24.29	41.84	5.00	38.39	35.52	Peak	100	19	HORIZONTAL
3	15718.00	38.83	54.00	-15.17	30.60	6.14	37.48	35.39	Average	100	321	HORIZONTAL
4	15720.52	51.55	74.00	-22.45	43.32	6.14	37.48	35.39	Peak	100	321	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10480.40	63.35	74.00	-10.65	55.47	5.00	38.40	35.52	Peak	100	163	VERTICAL
2	10480.68	47.13	54.00	-6.87	39.25	5.00	38.40	35.52	Average	100	163	VERTICAL
3	15723.20	39.10	54.00	-14.90	30.87	6.14	37.48	35.39	Average	100	339	VERTICAL
4	15723.36	52.74	74.00	-21.26	44.51	6.14	37.48	35.39	Peak	100	339	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10512.60	50.12	74.00	-23.88	42.21	5.01	38.40	35.50	Peak	100	264	HORIZONTAL
2	10525.72	38.60	54.00	-15.40	30.67	5.01	38.40	35.48	Average	100	264	HORIZONTAL
3	15780.60	51.63	74.00	-22.37	43.50	6.14	37.41	35.42	Peak	100	311	HORIZONTAL
4	15782.48	38.73	54.00	-15.27	30.60	6.14	37.41	35.42	Average	100	311	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10518.12	45.80	54.00	-8.20	37.90	5.01	38.39	35.50	Average	100	162	VERTICAL
2	10521.00	63.50	74.00	-10.50	55.60	5.01	38.39	35.50	Peak	100	162	VERTICAL
3	15779.64	39.10	54.00	-14.90	30.97	6.14	37.41	35.42	Average	100	29	VERTICAL
4	15786.04	52.53	74.00	-21.47	44.40	6.14	37.41	35.42	Peak	100	29	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10604.60	49.98	74.00	-24.02	42.01	5.01	38.38	35.42	Peak	100	200	HORIZONTAL
2	10606.88	36.95	54.00	-17.05	28.98	5.01	38.38	35.42	Average	100	200	HORIZONTAL
3	15899.08	52.13	74.00	-21.87	44.13	6.15	37.29	35.44	Peak	100	85	HORIZONTAL
4	15902.96	39.35	54.00	-14.65	31.35	6.15	37.29	35.44	Average	100	85	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.60	38.93	54.00	-15.07	30.96	5.01	38.38	35.42	Average	100	159	VERTICAL
2	10600.96	50.90	74.00	-23.10	42.93	5.01	38.38	35.42	Peak	100	159	VERTICAL
3	15902.64	52.22	74.00	-21.78	44.22	6.15	37.29	35.44	Peak	100	320	VERTICAL
4	15906.12	39.31	54.00	-14.69	31.31	6.15	37.29	35.44	Average	100	320	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10633.00	49.38	74.00	-24.62	41.39	5.01	38.37	35.39	Peak	100	200	HORIZONTAL
2	10636.36	36.67	54.00	-17.33	28.68	5.01	38.37	35.39	Average	100	200	HORIZONTAL
3	15966.56	51.51	74.00	-22.49	43.58	6.15	37.22	35.44	Peak	100	145	HORIZONTAL
4	15968.12	38.86	54.00	-15.14	30.93	6.15	37.22	35.44	Average	100	145	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10642.48	38.20	54.00	-15.80	30.21	5.01	38.37	35.39	Average	100	166	VERTICAL
2	10643.60	51.43	74.00	-22.57	43.44	5.01	38.37	35.39	Peak	100	166	VERTICAL
3	15954.64	51.65	74.00	-22.35	43.71	6.15	37.23	35.44	Peak	100	61	VERTICAL
4	15967.28	38.87	54.00	-15.13	30.94	6.15	37.22	35.44	Average	100	61	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10992.04	49.01	74.00	-24.99	40.78	5.01	38.32	35.10	Peak	100	113	HORIZONTAL
2	11009.24	35.36	54.00	-18.64	27.12	5.02	38.33	35.11	Average	100	113	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10998.52	35.80	54.00	-18.20	27.59	5.01	38.30	35.10	Average	100	256	VERTICAL
2	11010.00	48.08	74.00	-25.92	39.85	5.02	38.32	35.11	Peak	100	256	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5114.24	36.66	54.00	-17.34	34.65	3.42	33.61	35.02	Average	101	283	HORIZONTAL
2	5114.36	49.11	74.00	-24.89	47.10	3.42	33.61	35.02	Peak	101	283	HORIZONTAL
3	11155.72	51.30	74.00	-22.70	42.97	5.04	38.45	35.16	Peak	100	208	HORIZONTAL
4	11155.76	37.51	54.00	-16.49	29.18	5.04	38.45	35.16	Average	100	208	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5112.76	61.59	74.00	-12.41	59.58	3.42	33.61	35.02	Peak	112	167	VERTICAL
2	5113.00	50.34	54.00	-3.66	48.33	3.42	33.61	35.02	Average	112	167	VERTICAL
3	11156.44	52.85	74.00	-21.15	44.52	5.04	38.45	35.16	Peak	101	31	VERTICAL
4	11160.20	40.72	54.00	-13.28	32.38	5.04	38.47	35.17	Average	101	31	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11396.24	35.61	54.00	-18.39	27.08	5.10	38.68	35.25	Average	100	230	HORIZONTAL
2	11400.08	48.67	74.00	-25.33	40.12	5.10	38.70	35.25	Peak	100	230	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.72	40.73	54.00	-13.27	32.18	5.10	38.70	35.25	Average	112	27	VERTICAL
2	11404.28	52.55	74.00	-21.45	44.00	5.10	38.70	35.25	Peak	112	27	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 20MHz CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 21, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11435.19	51.52	74.00	-22.48	42.95	5.10	38.73	35.26	Peak	100	98	HORIZONTAL
2	11439.52	38.93	54.00	-15.07	30.37	5.10	38.73	35.27	Average	100	98	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11442.12	58.71	74.00	-15.29	50.15	5.10	38.73	35.27	Peak	100	243	VERTICAL
2	11442.16	44.75	54.00	-9.25	36.19	5.10	38.73	35.27	Average	100	243	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15532.88	52.49	74.00	-21.51	43.98	6.13	37.67	35.29	Peak	100	233	HORIZONTAL
2	15539.32	39.51	54.00	-14.49	31.04	6.13	37.65	35.31	Average	100	233	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15539.32	52.25	74.00	-21.75	43.74	6.13	37.69	35.31	Peak	100	9	VERTICAL
2	15542.40	39.68	54.00	-14.32	31.17	6.13	37.69	35.31	Average	100	9	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15596.92	39.26	54.00	-14.74	30.87	6.13	37.60	35.34	Average	100	296	HORIZONTAL
2	15604.20	51.71	74.00	-22.29	43.32	6.13	37.60	35.34	Peak	100	296	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15593.88	39.15	54.00	-14.85	30.76	6.13	37.60	35.34	Average	100	191	VERTICAL
2	15604.88	51.66	74.00	-22.34	43.27	6.13	37.60	35.34	Peak	100	191	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10481.72	36.94	54.00	-17.06	29.07	5.00	38.39	35.52	Average	100	101	HORIZONTAL
2	10489.16	49.45	74.00	-24.55	41.58	5.00	38.39	35.52	Peak	100	101	HORIZONTAL
3	15714.84	51.51	74.00	-22.49	43.27	6.14	37.48	35.38	Peak	100	342	HORIZONTAL
4	15719.56	38.44	54.00	-15.56	30.21	6.14	37.48	35.39	Average	100	342	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10480.76	61.82	74.00	-12.18	53.94	5.00	38.40	35.52	Peak	100	163	VERTICAL
2	10481.60	46.79	54.00	-7.21	38.91	5.00	38.40	35.52	Average	100	163	VERTICAL
3	15716.72	38.73	54.00	-15.27	30.50	6.14	37.48	35.39	Average	100	287	VERTICAL
4	15718.16	51.35	74.00	-22.65	43.12	6.14	37.48	35.39	Peak	100	287	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10525.96	37.74	54.00	-16.26	29.81	5.01	38.40	35.48	Average	100	143	HORIZONTAL
2	10529.48	49.63	74.00	-24.37	41.71	5.01	38.39	35.48	Peak	100	143	HORIZONTAL
3	15777.48	38.64	54.00	-15.36	30.51	6.14	37.41	35.42	Average	100	192	HORIZONTAL
4	15783.36	51.00	74.00	-23.00	42.87	6.14	37.41	35.42	Peak	100	192	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10519.56	46.51	54.00	-7.49	38.61	5.01	38.39	35.50	Average	100	166	VERTICAL
2	10520.04	61.62	74.00	-12.38	53.72	5.01	38.39	35.50	Peak	100	166	VERTICAL
3	15782.76	38.65	54.00	-15.35	30.52	6.14	37.41	35.42	Average	100	296	VERTICAL
4	15789.08	51.82	74.00	-22.18	43.69	6.14	37.41	35.42	Peak	100	296	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10599.32	36.86	54.00	-17.14	28.89	5.01	38.38	35.42	Average	100	116	HORIZONTAL
2	10604.52	50.17	74.00	-23.83	42.20	5.01	38.38	35.42	Peak	100	116	HORIZONTAL
3	15900.40	51.87	74.00	-22.13	43.87	6.15	37.29	35.44	Peak	100	223	HORIZONTAL
4	15907.56	39.33	54.00	-14.67	31.33	6.15	37.29	35.44	Average	100	223	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.48	51.05	74.00	-22.95	43.08	5.01	38.38	35.42	Peak	100	179	VERTICAL
2	10600.72	39.30	54.00	-14.70	31.33	5.01	38.38	35.42	Average	100	179	VERTICAL
3	15908.80	39.18	54.00	-14.82	31.18	6.15	37.29	35.44	Average	100	100	VERTICAL
4	15909.20	52.47	74.00	-21.53	44.47	6.15	37.29	35.44	Peak	100	100	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10634.12	49.96	74.00	-24.04	41.97	5.01	38.37	35.39	Peak	100	235	HORIZONTAL
2	10638.12	36.72	54.00	-17.28	28.73	5.01	38.37	35.39	Average	100	235	HORIZONTAL
3	15959.64	39.00	54.00	-15.00	31.06	6.15	37.23	35.44	Average	100	286	HORIZONTAL
4	15964.68	51.88	74.00	-22.12	43.95	6.15	37.22	35.44	Peak	100	286	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10635.80	38.71	54.00	-15.29	30.72	5.01	38.37	35.39	Average	100	153	VERTICAL
2	10643.96	51.68	74.00	-22.32	43.69	5.01	38.37	35.39	Peak	100	153	VERTICAL
3	15960.00	52.47	74.00	-21.53	44.53	6.15	37.23	35.44	Peak	100	104	VERTICAL
4	15969.72	38.98	54.00	-15.02	31.05	6.15	37.22	35.44	Average	100	104	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11003.16	48.28	74.00	-25.72	40.05	5.01	38.32	35.10	Peak	100	279	HORIZONTAL
2	11006.24	35.15	54.00	-18.85	26.92	5.01	38.33	35.11	Average	100	279	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10997.48	48.87	74.00	-25.13	40.66	5.01	38.30	35.10	Peak	100	183	VERTICAL
2	10998.00	35.78	54.00	-18.22	27.57	5.01	38.30	35.10	Average	100	183	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5121.52	48.03	74.00	-25.97	46.01	3.43	33.61	35.02	Peak	113	295	HORIZONTAL
2	5121.56	35.33	54.00	-18.67	33.31	3.43	33.61	35.02	Average	113	295	HORIZONTAL
3	11152.52	50.06	74.00	-23.94	41.73	5.04	38.45	35.16	Peak	100	245	HORIZONTAL
4	11166.72	37.58	54.00	-16.42	29.23	5.05	38.47	35.17	Average	100	245	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5112.76	47.98	54.00	-6.02	45.97	3.42	33.61	35.02	Average	124	165	VERTICAL
2	5117.40	60.16	74.00	-13.84	58.15	3.42	33.61	35.02	Peak	124	165	VERTICAL
3	11162.36	41.77	54.00	-12.23	33.42	5.05	38.47	35.17	Average	100	126	VERTICAL
4	11169.00	55.80	74.00	-18.20	47.45	5.05	38.47	35.17	Peak	100	126	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 140 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11393.56	35.67	54.00	-18.33	27.14	5.10	38.68	35.25	Average	100	179	HORIZONTAL
2	11406.04	48.51	74.00	-25.49	39.96	5.10	38.70	35.25	Peak	100	179	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11399.92	37.85	54.00	-16.15	29.30	5.10	38.70	35.25	Average	100	75	VERTICAL
2	11406.32	49.57	74.00	-24.43	41.02	5.10	38.70	35.25	Peak	100	75	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 20MHz CH 144 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 21, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11438.24	38.50	54.00	-15.50	29.94	5.10	38.73	35.27	Average	100	94	HORIZONTAL
2	11441.09	50.96	74.00	-23.04	42.40	5.10	38.73	35.27	Peak	100	94	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11440.71	57.25	74.00	-16.75	48.69	5.10	38.73	35.27	Peak	100	243	VERTICAL
2	11441.03	41.87	54.00	-12.13	33.31	5.10	38.73	35.27	Average	100	243	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 38 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15563.16	39.64	54.00	-14.36	31.19	6.13	37.63	35.31	Average	100	81	HORIZONTAL
2	15574.12	52.17	74.00	-21.83	43.76	6.13	37.61	35.33	Peak	100	81	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15563.20	52.58	74.00	-21.42	44.11	6.13	37.65	35.31	Peak	100	346	VERTICAL
2	15563.48	39.57	54.00	-14.43	31.12	6.13	37.65	35.33	Average	100	346	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15680.36	51.82	74.00	-22.18	43.54	6.14	37.51	35.37	Peak	100	63	HORIZONTAL
2	15684.32	38.72	54.00	-15.28	30.44	6.14	37.51	35.37	Average	100	63	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15685.68	38.93	54.00	-15.07	30.65	6.14	37.51	35.37	Average	100	309	VERTICAL
2	15690.36	51.44	74.00	-22.56	43.16	6.14	37.51	35.37	Peak	100	309	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 54 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15802.88	51.28	74.00	-22.72	43.18	6.14	37.39	35.43	Peak	100	291	HORIZONTAL
2	15804.40	38.42	54.00	-15.58	30.32	6.14	37.39	35.43	Average	100	291	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15804.64	38.52	54.00	-15.48	30.42	6.14	37.39	35.43	Average	100	5	VERTICAL
2	15808.60	51.13	74.00	-22.87	43.03	6.14	37.39	35.43	Peak	100	5	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10610.80	36.70	54.00	-17.30	28.73	5.01	38.38	35.42	Average	100	151	HORIZONTAL
2	10619.64	49.36	74.00	-24.64	41.39	5.01	38.38	35.42	Peak	100	151	HORIZONTAL
3	15920.32	39.35	54.00	-14.65	31.37	6.15	37.27	35.44	Average	100	46	HORIZONTAL
4	15925.36	51.93	74.00	-22.07	43.95	6.15	37.27	35.44	Peak	100	46	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10613.40	37.72	54.00	-16.28	29.75	5.01	38.38	35.42	Average	100	196	VERTICAL
2	10621.00	49.85	74.00	-24.15	41.88	5.01	38.38	35.42	Peak	100	196	VERTICAL
3	15921.32	51.88	74.00	-22.12	43.90	6.15	37.27	35.44	Peak	100	261	VERTICAL
4	15923.40	39.34	54.00	-14.66	31.36	6.15	37.27	35.44	Average	100	261	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 102 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11025.32	47.82	74.00	-26.18	39.57	5.02	38.34	35.11	Peak	100	179	HORIZONTAL
2	11029.00	35.34	54.00	-18.66	27.09	5.02	38.34	35.11	Average	100	179	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11026.36	47.95	74.00	-26.05	39.71	5.02	38.33	35.11	Peak	100	291	VERTICAL
2	11027.08	35.31	54.00	-18.69	27.07	5.02	38.33	35.11	Average	100	291	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 110 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11090.72	49.19	74.00	-24.81	40.90	5.03	38.40	35.14	Peak	100	323	HORIZONTAL
2	11094.20	36.59	54.00	-17.41	28.30	5.03	38.40	35.14	Average	100	323	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11098.84	49.24	74.00	-24.76	40.95	5.03	38.40	35.14	Peak	100	131	VERTICAL
2	11105.24	37.52	54.00	-16.48	29.23	5.03	38.40	35.14	Average	100	131	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11347.80	35.88	54.00	-18.12	27.38	5.09	38.65	35.24	Average	100	58	HORIZONTAL
2	11348.56	48.91	74.00	-25.09	40.41	5.09	38.65	35.24	Peak	100	58	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11346.64	38.85	54.00	-15.15	30.35	5.09	38.65	35.24	Average	100	4	VERTICAL
2	11347.84	51.31	74.00	-22.69	42.81	5.09	38.65	35.24	Peak	100	4	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 40MHz CH 142 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 21, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11413.14	38.07	54.00	-15.93	29.53	5.10	38.70	35.26	Average	100	246	HORIZONTAL
2	11418.01	51.42	74.00	-22.58	42.86	5.10	38.72	35.26	Peak	100	246	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11418.72	42.72	54.00	-11.28	34.16	5.10	38.72	35.26	Average	100	38	VERTICAL
2	11418.91	55.98	74.00	-18.02	47.42	5.10	38.72	35.26	Peak	100	38	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 38 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15566.12	52.95	74.00	-21.05	44.52	6.13	37.63	35.33	Peak	100	120	HORIZONTAL
2	15568.64	39.33	54.00	-14.67	30.90	6.13	37.63	35.33	Average	100	120	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15572.48	52.56	74.00	-21.44	44.15	6.13	37.61	35.33	Peak	100	229	VERTICAL
2	15575.28	39.33	54.00	-14.67	30.92	6.13	37.61	35.33	Average	100	229	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 46 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10460.32	49.31	74.00	-24.69	41.46	5.00	38.39	35.54	Peak	100	155	HORIZONTAL
2	10464.44	36.15	54.00	-17.85	28.30	5.00	38.39	35.54	Average	100	155	HORIZONTAL
3	15696.84	51.52	74.00	-22.48	43.27	6.14	37.49	35.38	Peak	100	78	HORIZONTAL
4	15698.88	38.48	54.00	-15.52	30.23	6.14	37.49	35.38	Average	100	78	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10458.88	42.29	54.00	-11.71	34.44	5.00	38.39	35.54	Average	100	223	VERTICAL
2	10459.08	59.18	74.00	-14.82	51.33	5.00	38.39	35.54	Peak	100	223	VERTICAL
3	15681.16	51.53	74.00	-22.47	43.25	6.14	37.51	35.37	Peak	100	170	VERTICAL
4	15695.88	38.59	54.00	-15.41	30.34	6.14	37.49	35.38	Average	100	170	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 54 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10541.24	50.38	74.00	-23.62	42.46	5.01	38.39	35.48	Peak	100	46	HORIZONTAL
2	10543.76	37.11	54.00	-16.89	29.19	5.01	38.39	35.48	Average	100	46	HORIZONTAL
3	15809.44	38.55	54.00	-15.45	30.45	6.14	37.39	35.43	Average	100	271	HORIZONTAL
4	15814.24	51.37	74.00	-22.63	43.29	6.14	37.37	35.43	Peak	100	271	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10541.36	45.09	54.00	-8.91	37.17	5.01	38.39	35.48	Average	100	161	VERTICAL
2	10541.36	59.98	74.00	-14.02	52.06	5.01	38.39	35.48	Peak	100	161	VERTICAL
3	15806.12	38.45	54.00	-15.55	30.35	6.14	37.39	35.43	Average	100	113	VERTICAL
4	15806.72	51.36	74.00	-22.64	43.26	6.14	37.39	35.43	Peak	100	113	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 62 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10612.72	36.75	54.00	-17.25	28.78	5.01	38.38	35.42	Average	100	140	HORIZONTAL
2	10613.20	49.36	74.00	-24.64	41.39	5.01	38.38	35.42	Peak	100	140	HORIZONTAL
3	15923.48	39.34	54.00	-14.66	31.36	6.15	37.27	35.44	Average	100	324	HORIZONTAL
4	15929.36	52.46	74.00	-21.54	44.48	6.15	37.27	35.44	Peak	100	324	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10613.88	50.29	74.00	-23.71	42.32	5.01	38.38	35.42	Peak	100	49	VERTICAL
2	10617.60	37.56	54.00	-16.44	29.59	5.01	38.38	35.42	Average	100	49	VERTICAL
3	15925.04	39.28	54.00	-14.72	31.30	6.15	37.27	35.44	Average	100	153	VERTICAL
4	15931.24	52.14	74.00	-21.86	44.18	6.15	37.25	35.44	Peak	100	153	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 102 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11016.16	48.14	74.00	-25.86	39.90	5.02	38.33	35.11	Peak	100	187	HORIZONTAL
2	11028.88	35.70	54.00	-18.30	27.45	5.02	38.34	35.11	Average	100	187	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11023.52	35.77	54.00	-18.23	27.53	5.02	38.33	35.11	Average	100	302	VERTICAL
2	11025.96	48.32	74.00	-25.68	40.08	5.02	38.33	35.11	Peak	100	302	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 110 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11098.36	49.54	74.00	-24.46	41.25	5.03	38.40	35.14	Peak	100	93	HORIZONTAL
2	11105.80	36.84	54.00	-17.16	28.55	5.03	38.40	35.14	Average	100	93	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11099.92	37.87	54.00	-16.13	29.58	5.03	38.40	35.14	Average	100	208	VERTICAL
2	11105.48	50.87	74.00	-23.13	42.58	5.03	38.40	35.14	Peak	100	208	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 134 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11347.04	36.03	54.00	-17.97	27.53	5.09	38.65	35.24	Average	100	49	HORIZONTAL
2	11347.88	49.04	74.00	-24.96	40.54	5.09	38.65	35.24	Peak	100	49	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11341.04	39.56	54.00	-14.44	31.08	5.09	38.63	35.24	Average	100	8	VERTICAL
2	11342.56	52.87	74.00	-21.13	44.39	5.09	38.63	35.24	Peak	100	8	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 40MHz CH 142 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 21, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11417.69	51.19	74.00	-22.81	42.63	5.10	38.72	35.26	Peak	100	85	HORIZONTAL
2	11427.64	38.17	54.00	-15.83	29.61	5.10	38.72	35.26	Average	100	85	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11418.70	54.98	74.00	-19.02	46.42	5.10	38.72	35.26	Peak	100	208	VERTICAL
2	11419.95	41.19	54.00	-12.81	32.63	5.10	38.72	35.26	Average	100	208	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 42 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15622.76	52.00	74.00	-22.00	43.64	6.13	37.58	35.35	Peak	100	295	HORIZONTAL
2	15622.96	38.99	54.00	-15.01	30.65	6.13	37.56	35.35	Average	100	295	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15627.52	39.02	54.00	-14.98	30.67	6.14	37.56	35.35	Average	100	67	VERTICAL
2	15638.28	51.42	74.00	-22.58	43.07	6.14	37.56	35.35	Peak	100	67	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 58 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15863.28	51.40	74.00	-22.60	43.39	6.14	37.32	35.45	Peak	100	83	HORIZONTAL
2	15878.36	38.86	54.00	-15.14	30.84	6.14	37.32	35.44	Average	100	83	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15878.16	51.92	74.00	-22.08	43.90	6.14	37.32	35.44	Peak	100	252	VERTICAL
2	15879.88	38.76	54.00	-15.24	30.75	6.15	37.30	35.44	Average	100	252	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11051.72	49.78	74.00	-24.22	41.52	5.02	38.36	35.12	Peak	100	315	HORIZONTAL
2	11067.76	36.50	54.00	-17.50	28.23	5.03	38.37	35.13	Average	100	315	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11065.84	36.44	54.00	-17.56	28.17	5.03	38.37	35.13	Average	100	76	VERTICAL
2	11066.04	49.13	74.00	-24.87	40.86	5.03	38.37	35.13	Peak	100	76	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss1 80MHz CH 138 / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 21, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11402.12	49.70	74.00	-24.30	41.15	5.10	38.70	35.25	Peak	100	266	HORIZONTAL
2	11403.00	37.71	54.00	-16.29	29.16	5.10	38.70	35.25	Average	100	266	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11378.40	40.15	54.00	-13.85	31.64	5.09	38.67	35.25	Average	100	41	VERTICAL
2	11401.88	52.56	74.00	-21.44	44.01	5.10	38.70	35.25	Peak	100	41	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 42 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15621.24	51.74	74.00	-22.26	43.38	6.13	37.58	35.35	Peak	100	41	HORIZONTAL
2	15622.40	38.95	54.00	-15.05	30.59	6.13	37.58	35.35	Average	100	41	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15626.36	39.01	54.00	-14.99	30.66	6.14	37.56	35.35	Average	100	347	VERTICAL
2	15633.20	51.65	74.00	-22.35	43.30	6.14	37.56	35.35	Peak	100	347	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 58 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15871.48	51.93	74.00	-22.07	43.91	6.14	37.32	35.44	Peak	100	108	HORIZONTAL
2	15879.36	38.78	54.00	-15.22	30.77	6.15	37.30	35.44	Average	100	108	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15875.88	38.90	54.00	-15.10	30.88	6.14	37.32	35.44	Average	100	14	VERTICAL
2	15878.28	52.15	74.00	-21.85	44.13	6.14	37.32	35.44	Peak	100	14	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 106 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11050.88	49.26	74.00	-24.74	41.00	5.02	38.36	35.12	Peak	100	250	HORIZONTAL
2	11061.72	36.27	54.00	-17.73	28.00	5.03	38.37	35.13	Average	100	250	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11051.60	49.27	74.00	-24.73	41.02	5.02	38.35	35.12	Peak	100	47	VERTICAL
2	11067.84	36.19	54.00	-17.81	27.92	5.03	38.37	35.13	Average	100	47	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Jim Huang	Configurations	IEEE 802.11ac MCS0/Nss3 80MHz CH 138 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11365.96	37.56	54.00	-16.44	29.05	5.09	38.67	35.25	Average	100	67	HORIZONTAL
2	11389.52	50.43	74.00	-23.57	41.91	5.09	38.68	35.25	Peak	100	67	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11393.41	39.59	54.00	-14.41	31.06	5.10	38.68	35.25	Average	100	180	VERTICAL
2	11394.18	51.38	74.00	-22.62	42.85	5.10	38.68	35.25	Peak	100	180	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 36 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15536.12	39.23	54.00	-14.77	30.72	6.13	37.67	35.29	Average	100	11	HORIZONTAL
2	15542.36	52.65	74.00	-21.35	44.18	6.13	37.65	35.31	Peak	100	11	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15540.12	39.22	54.00	-14.78	30.71	6.13	37.69	35.31	Average	100	205	VERTICAL
2	15544.76	51.94	74.00	-22.06	43.43	6.13	37.69	35.31	Peak	100	205	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 40 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15598.60	38.81	54.00	-15.19	30.42	6.13	37.60	35.34	Average	100	68	HORIZONTAL
2	15603.08	51.52	74.00	-22.48	43.13	6.13	37.60	35.34	Peak	100	68	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	15596.44	51.78	74.00	-22.22	43.39	6.13	37.60	35.34	Peak	100	291	VERTICAL
2	15600.52	38.83	54.00	-15.17	30.44	6.13	37.60	35.34	Average	100	291	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 48 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10478.92	36.60	54.00	-17.40	28.73	5.00	38.39	35.52	Average	100	201	HORIZONTAL
2	10480.24	49.06	74.00	-24.94	41.19	5.00	38.39	35.52	Peak	100	201	HORIZONTAL
3	15711.04	51.26	74.00	-22.74	43.02	6.14	37.48	35.38	Peak	100	150	HORIZONTAL
4	15712.56	38.36	54.00	-15.64	30.12	6.14	37.48	35.38	Average	100	150	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10482.04	45.94	54.00	-8.06	38.06	5.00	38.40	35.52	Average	100	162	VERTICAL
2	10482.44	60.98	74.00	-13.02	53.10	5.00	38.40	35.52	Peak	100	162	VERTICAL
3	15722.72	51.21	74.00	-22.79	42.98	6.14	37.48	35.39	Peak	100	310	VERTICAL
4	15723.36	38.64	54.00	-15.36	30.41	6.14	37.48	35.39	Average	100	310	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 52 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10518.80	37.42	54.00	-16.58	29.51	5.01	38.40	35.50	Average	100	26	HORIZONTAL
2	10524.28	49.27	74.00	-24.73	41.34	5.01	38.40	35.48	Peak	100	26	HORIZONTAL
3	15776.16	51.90	74.00	-22.10	43.76	6.14	37.42	35.42	Peak	100	102	HORIZONTAL
4	15789.16	38.54	54.00	-15.46	30.41	6.14	37.41	35.42	Average	100	102	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10522.32	46.15	54.00	-7.85	38.23	5.01	38.39	35.48	Average	107	165	VERTICAL
2	10522.48	63.55	74.00	-10.45	55.63	5.01	38.39	35.48	Peak	107	165	VERTICAL
3	15782.68	38.53	54.00	-15.47	30.40	6.14	37.41	35.42	Average	100	254	VERTICAL
4	15789.28	51.43	74.00	-22.57	43.30	6.14	37.41	35.42	Peak	100	254	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 60 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10602.08	49.16	74.00	-24.84	41.19	5.01	38.38	35.42	Peak	100	137	HORIZONTAL
2	10604.12	36.81	54.00	-17.19	28.84	5.01	38.38	35.42	Average	100	137	HORIZONTAL
3	15901.16	52.48	74.00	-21.52	44.48	6.15	37.29	35.44	Peak	100	252	HORIZONTAL
4	15909.80	38.85	54.00	-15.15	30.85	6.15	37.29	35.44	Average	100	252	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10600.68	51.52	74.00	-22.48	43.55	5.01	38.38	35.42	Peak	100	162	VERTICAL
2	10602.68	39.21	54.00	-14.79	31.24	5.01	38.38	35.42	Average	100	162	VERTICAL
3	15901.80	52.25	74.00	-21.75	44.25	6.15	37.29	35.44	Peak	100	296	VERTICAL
4	15907.92	38.96	54.00	-15.04	30.96	6.15	37.29	35.44	Average	100	296	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 64 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10637.56	36.42	54.00	-17.58	28.43	5.01	38.37	35.39	Average	100	262	HORIZONTAL
2	10644.60	49.14	74.00	-24.86	41.15	5.01	38.37	35.39	Peak	100	262	HORIZONTAL
3	15950.12	51.52	74.00	-22.48	43.58	6.15	37.23	35.44	Peak	100	328	HORIZONTAL
4	15963.84	38.75	54.00	-15.25	30.82	6.15	37.22	35.44	Average	100	328	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10642.00	51.70	74.00	-22.30	43.71	5.01	38.37	35.39	Peak	100	164	VERTICAL
2	10642.84	39.43	54.00	-14.57	31.44	5.01	38.37	35.39	Average	100	164	VERTICAL
3	15957.40	38.72	54.00	-15.28	30.78	6.15	37.23	35.44	Average	100	261	VERTICAL
4	15965.92	51.96	74.00	-22.04	44.03	6.15	37.22	35.44	Peak	100	261	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 100 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10998.80	35.75	54.00	-18.25	27.52	5.01	38.32	35.10	Average	100	77	HORIZONTAL
2	11000.32	49.04	74.00	-24.96	40.81	5.01	38.32	35.10	Peak	100	77	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	10993.84	48.69	74.00	-25.31	40.48	5.01	38.30	35.10	Peak	100	185	VERTICAL
2	11001.12	36.49	54.00	-17.51	28.28	5.01	38.30	35.10	Average	100	185	VERTICAL

Temperature	24.5°C	Humidity	57%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11a CH 116 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 27, 2013	Test Mode	Mode 4 (Ant.5 PCB antenna / 5.74dBi)

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5113.44	47.66	74.00	-26.34	45.65	3.42	33.61	35.02	Peak	100	283	HORIZONTAL
2	5113.52	35.53	54.00	-18.47	33.52	3.42	33.61	35.02	Average	100	283	HORIZONTAL
3	11157.44	50.53	74.00	-23.47	42.20	5.04	38.45	35.16	Peak	100	270	HORIZONTAL
4	11167.36	37.19	54.00	-16.81	28.84	5.05	38.47	35.17	Average	100	270	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5116.92	60.59	74.00	-13.41	58.58	3.42	33.61	35.02	Peak	125	196	VERTICAL
2	5117.12	49.98	54.00	-4.02	47.97	3.42	33.61	35.02	Average	125	196	VERTICAL
3	11159.16	55.04	74.00	-18.96	46.70	5.04	38.47	35.17	Peak	100	147	VERTICAL
4	11161.08	41.88	54.00	-12.12	33.54	5.04	38.47	35.17	Average	100	147	VERTICAL