4.7. Band Edge Emissions Measurement

4.7.1. Limit

For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.

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

4.7.2. Measuring Instruments and Setting

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average
RBW / VBW (Emission in non-restricted band)	1MHz / 3MHz for Peak

4.7.3. Test Procedures

1. The test procedure is the same as section 4.6.3.

4.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.6.4.

4.7.5. Test Deviation

There is no deviation with the original standard.

4.7.6. EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For beamforming mode:

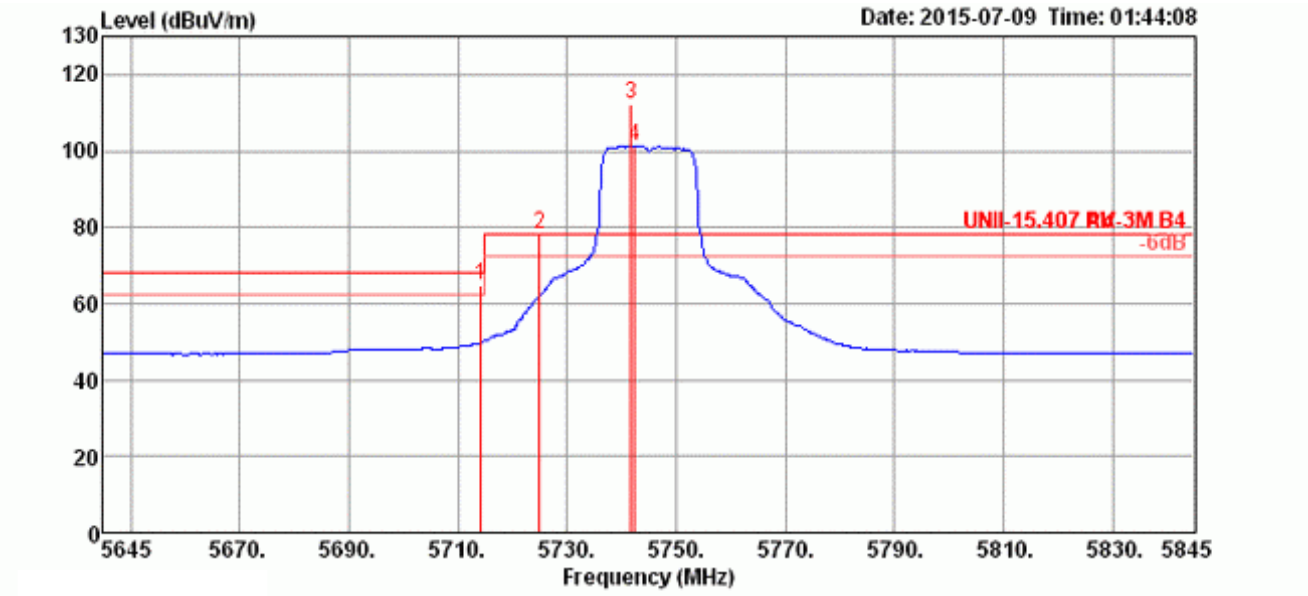
The EUT was programmed to be in beamforming transmitting mode.

4.7.7. Test Result of Band Edge and Fundamental Emissions

<For Radio 2 Non-beamforming Mode>: 1TX, 1S

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 4

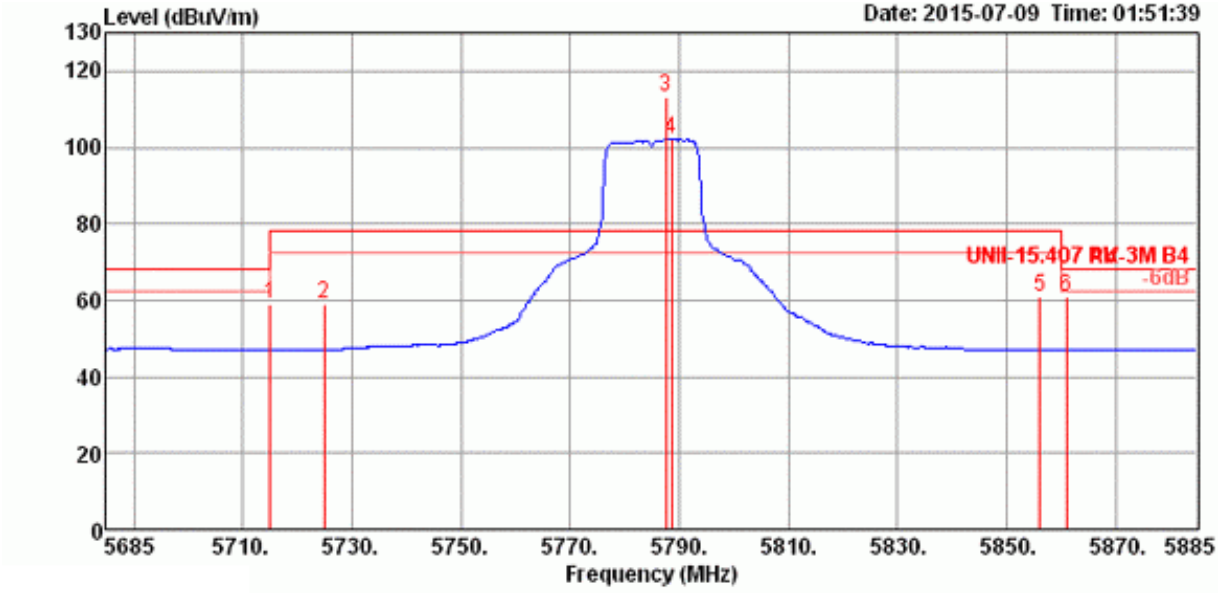
Channel 36



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5714.23	64.96	68.20	-3.24	56.84	6.83	34.42	33.13	288	171	Peak	HORIZONTAL
2	5725.00	78.14	78.20	-0.06	70.01	6.83	34.43	33.13	288	171	Peak	HORIZONTAL
3	5741.80	112.49			104.33	6.86	34.44	33.14	288	171	Peak	HORIZONTAL
4	5742.44	101.18			93.02	6.86	34.44	33.14	288	171	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

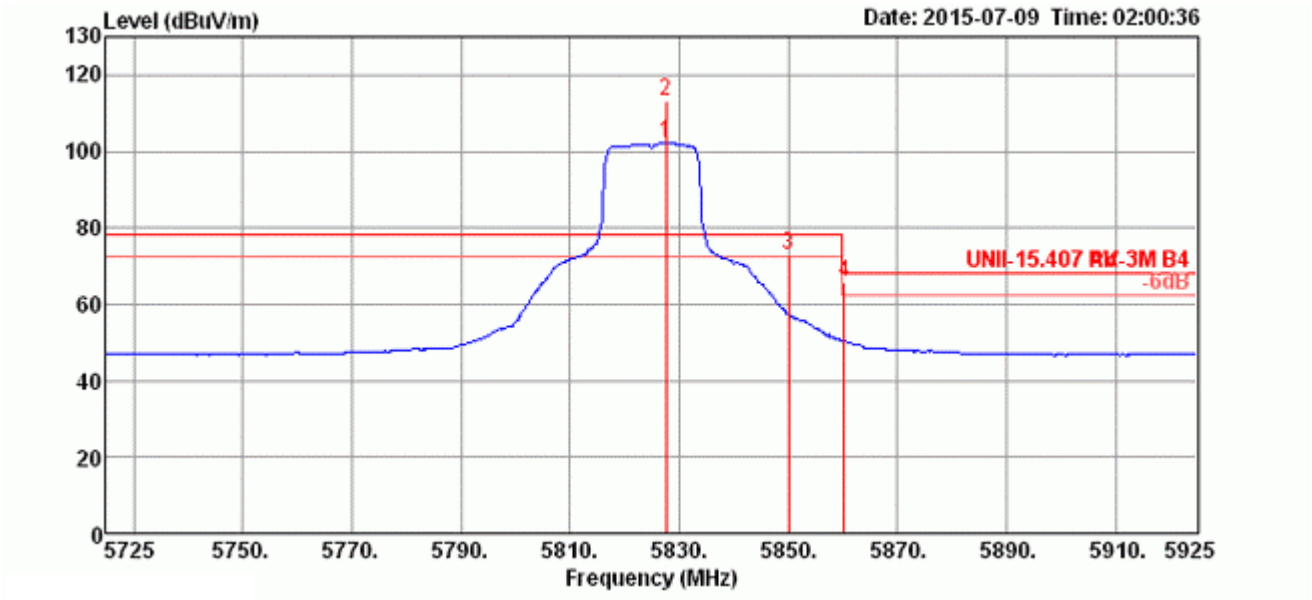
Channel 40



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5715.00	59.22	68.20	-8.98	51.10	6.83	34.42	33.13	293	161	Peak	HORIZONTAL
2	5725.00	58.97	78.20	-19.23	50.84	6.83	34.43	33.13	293	161	Peak	HORIZONTAL
3	5787.56	113.44			105.22	6.90	34.48	33.16	293	161	Peak	HORIZONTAL
4	5788.53	102.13			93.91	6.90	34.48	33.16	293	161	Average	HORIZONTAL
5	5856.09	61.15	78.20	-17.05	52.85	6.95	34.52	33.17	293	161	Peak	HORIZONTAL
6	5860.96	60.89	68.20	-7.31	52.58	6.97	34.52	33.18	293	161	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

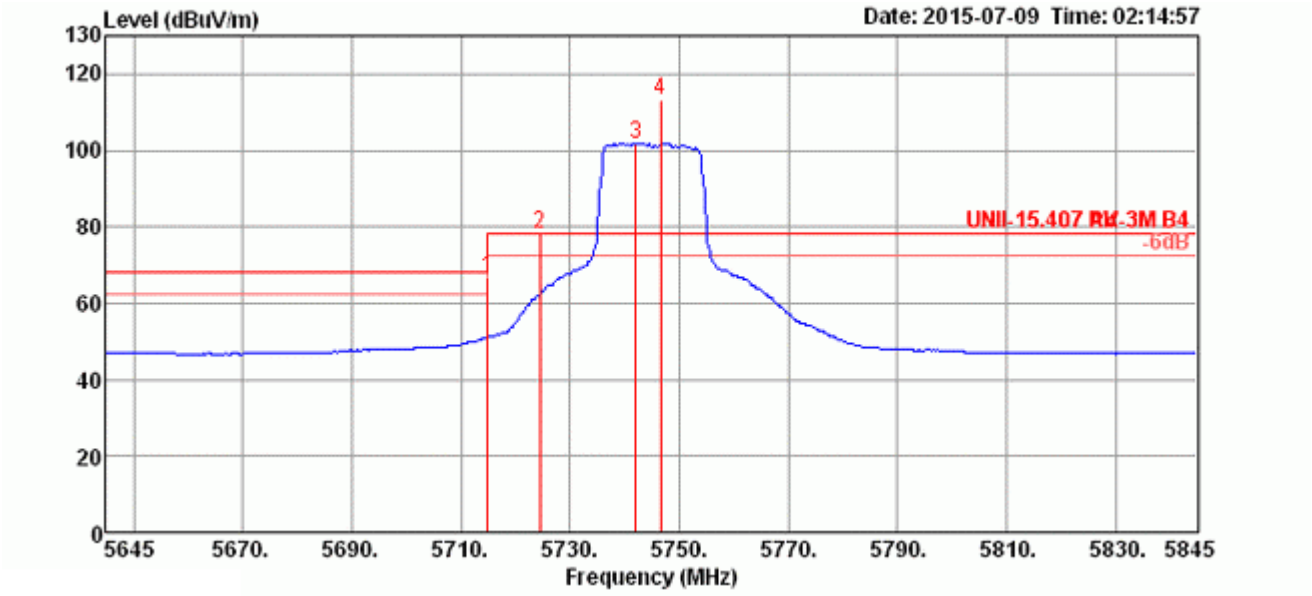


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5827.56	102.19			93.93	6.92	34.50	33.16	297	191	Average	HORIZONTAL
2	5827.56	113.34			105.08	6.92	34.50	33.16	297	191	Peak	HORIZONTAL
3	5850.00	72.78	78.20	-5.42	64.49	6.95	34.51	33.17	297	191	Peak	HORIZONTAL
4	5860.26	65.48	68.20	-2.72	57.17	6.97	34.52	33.18	297	191	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5240 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 4

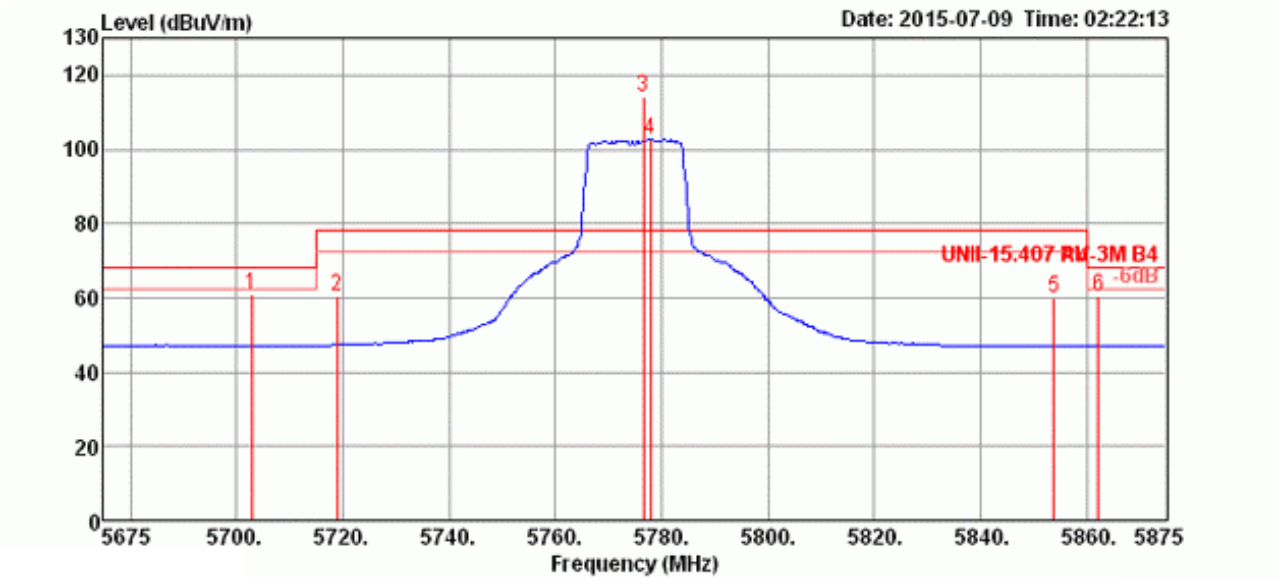
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5715.00	66.87	68.20	-1.33	58.75	6.83	34.42	33.13	290	165	Peak	HORIZONTAL
2	5724.49	78.08	78.20	-0.12	69.95	6.83	34.43	33.13	290	165	Peak	HORIZONTAL
3	5742.12	101.85			93.69	6.86	34.44	33.14	290	165	Average	HORIZONTAL
4	5746.60	113.40			105.24	6.86	34.44	33.14	290	165	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

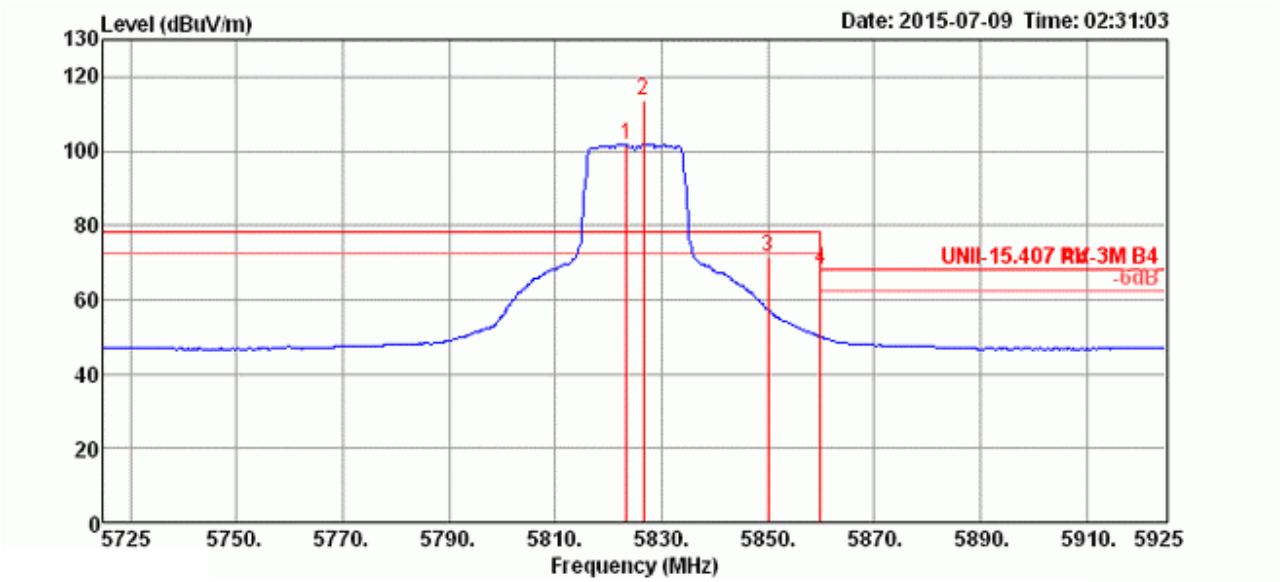
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5702.89	61.01	68.20	-7.19	52.90	6.81	34.42	33.12	296	172	Peak	HORIZONTAL
2	5718.91	60.24	78.20	-17.96	52.11	6.83	34.43	33.13	296	172	Peak	HORIZONTAL
3	5776.60	114.32			106.12	6.88	34.47	33.15	296	172	Peak	HORIZONTAL
4	5777.89	102.65			94.45	6.88	34.47	33.15	296	172	Average	HORIZONTAL
5	5853.85	59.89	78.20	-18.31	51.59	6.95	34.52	33.17	296	172	Peak	HORIZONTAL
6	5862.24	60.26	68.20	-7.94	51.95	6.97	34.52	33.18	296	172	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

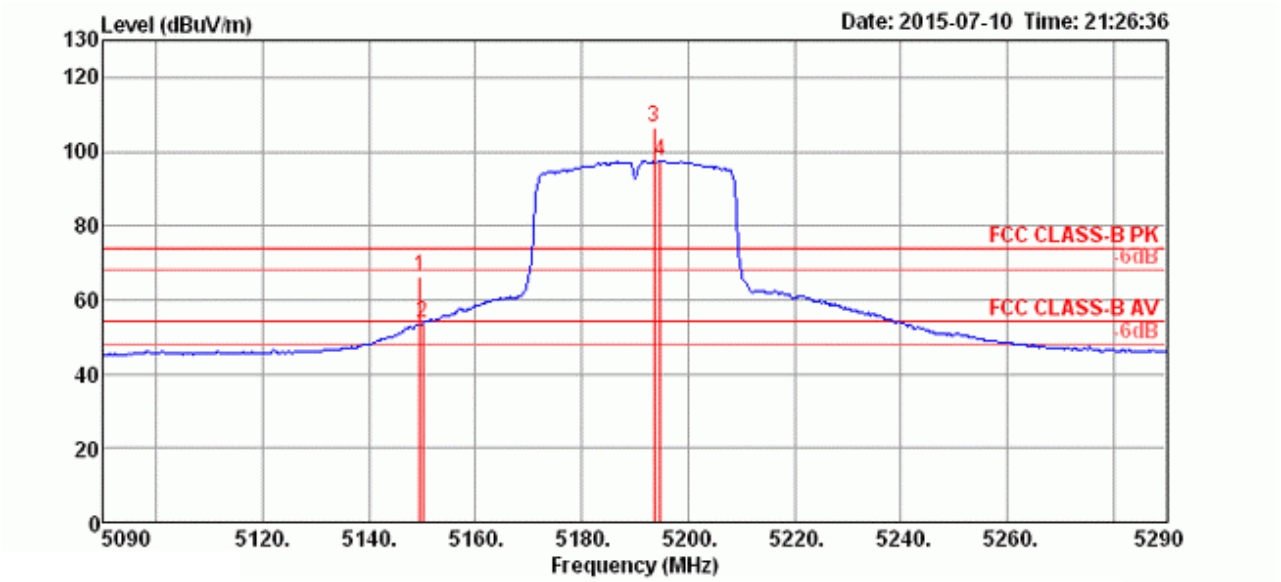


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5823.40	101.73			93.47	6.92	34.50	33.16	291	184	Average	HORIZONTAL
2	5826.60	113.47			105.21	6.92	34.50	33.16	291	184	Peak	HORIZONTAL
3	5850.00	71.48	78.20	-6.72	63.19	6.95	34.51	33.17	291	184	Peak	HORIZONTAL
4	5860.00	68.09	68.20	-0.11	59.78	6.97	34.52	33.18	291	184	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 4

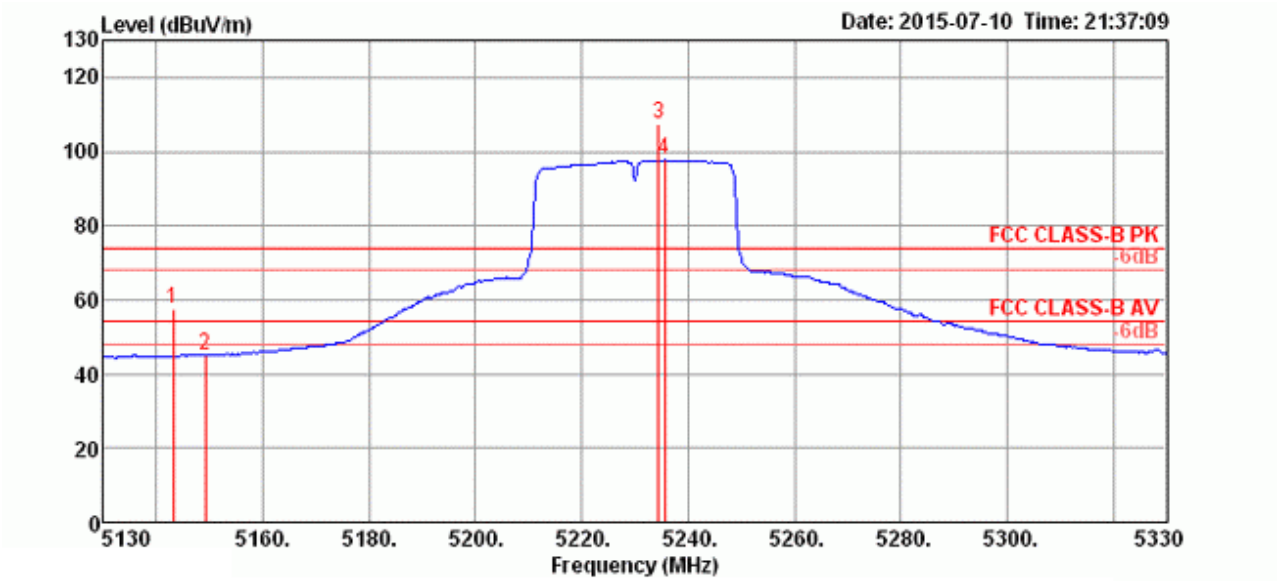
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.60	66.03	74.00	-7.97	59.13	6.21	33.74	33.05	175	281	Peak	HORIZONTAL
2	5150.00	53.57	54.00	-0.43	46.67	6.21	33.74	33.05	175	281	Average	HORIZONTAL
3	5193.60	106.26			99.25	6.24	33.82	33.05	175	281	Peak	HORIZONTAL
4	5194.80	97.54			90.50	6.27	33.82	33.05	175	281	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

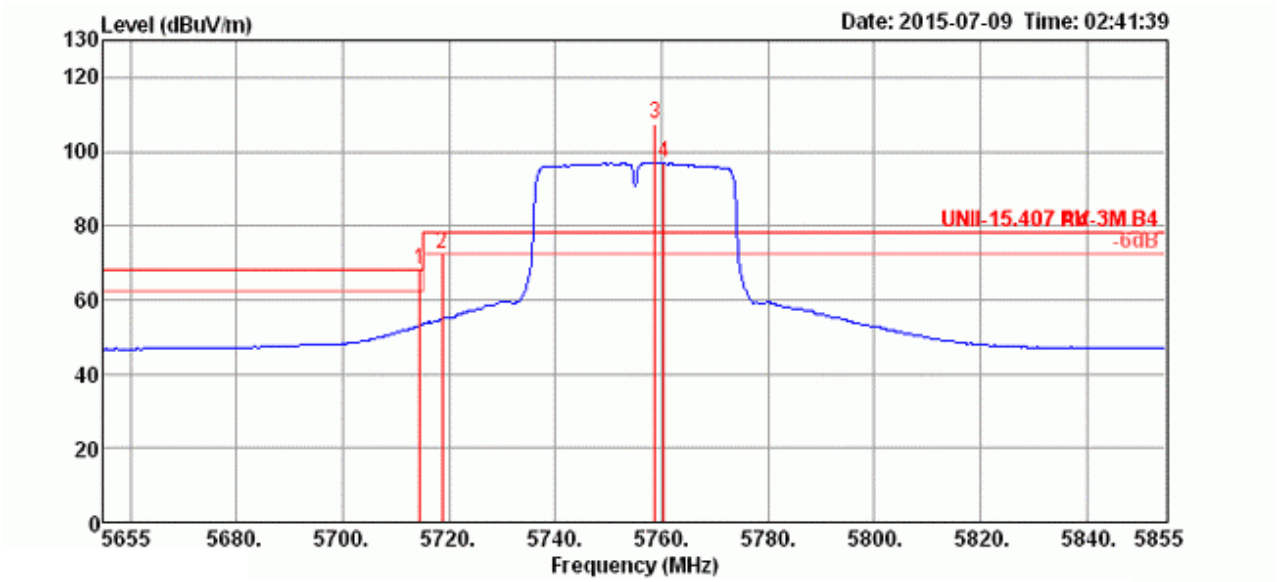


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5143.20	57.40	74.00	-16.60	50.54	6.17	33.74	33.05	168	282	Peak	HORIZONTAL
2	5149.20	45.06	54.00	-8.94	38.16	6.21	33.74	33.05	168	282	Average	HORIZONTAL
3	5234.40	107.44			100.32	6.30	33.87	33.05	168	282	Peak	HORIZONTAL
4	5235.60	97.63			90.51	6.30	33.87	33.05	168	282	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 4

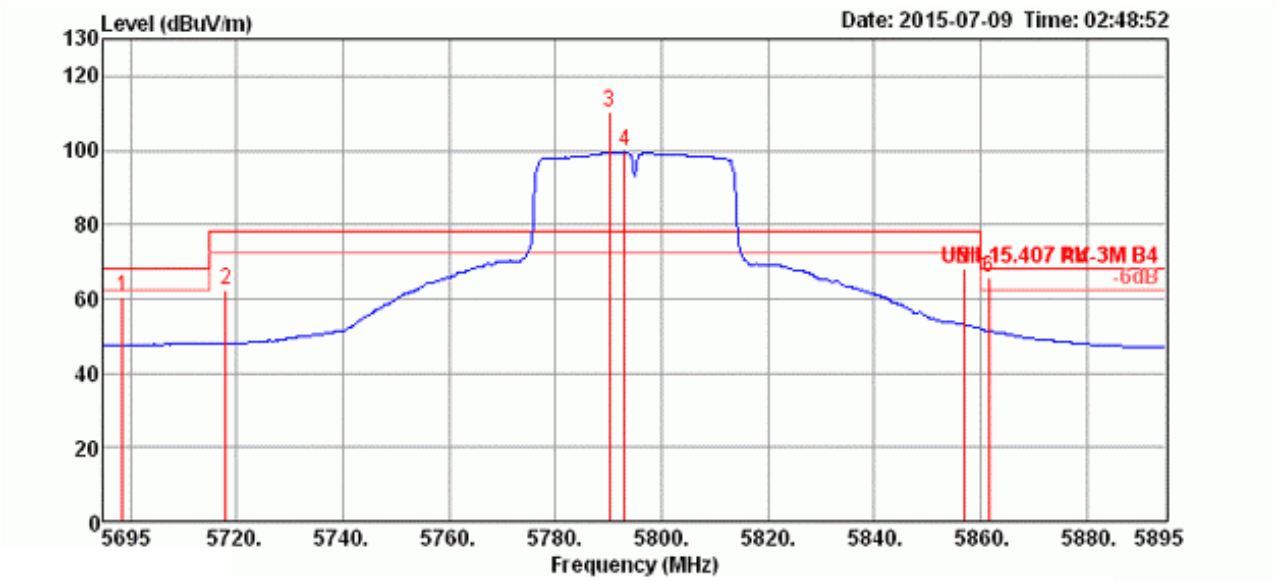
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5714.62	67.89	68.20	-0.31	59.77	6.83	34.42	33.13	301	167	Peak	HORIZONTAL
2	5718.78	72.42	78.20	-5.78	64.29	6.83	34.43	33.13	301	167	Peak	HORIZONTAL
3	5758.85	107.63			99.44	6.88	34.46	33.15	301	167	Peak	HORIZONTAL
4	5760.45	96.86			88.67	6.88	34.46	33.15	301	167	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

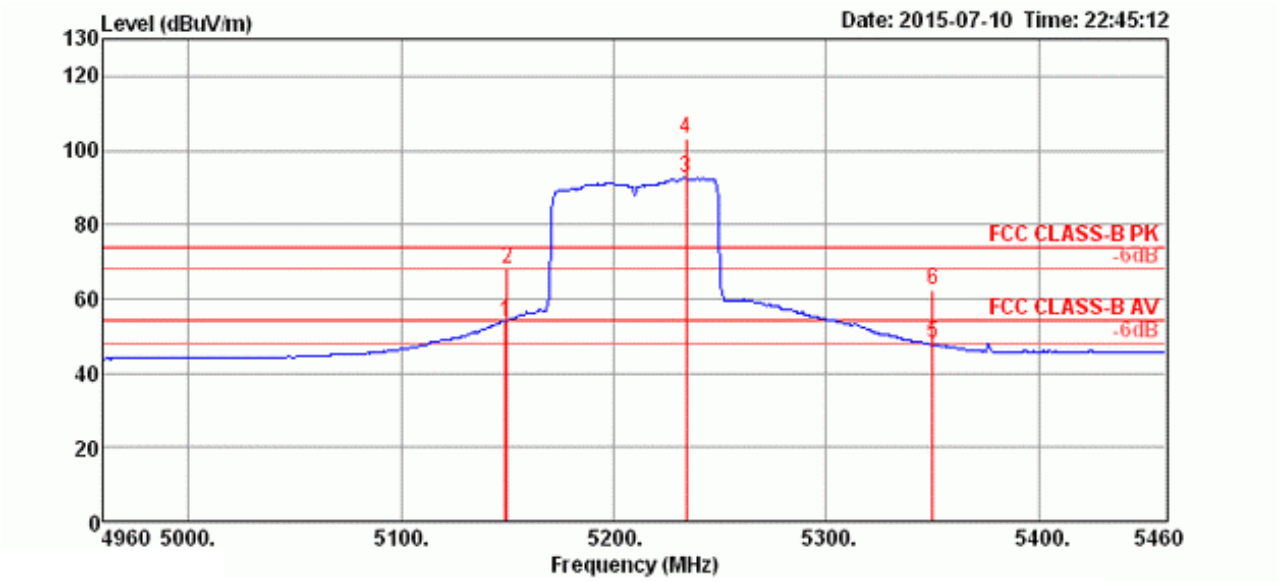


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5698.53	60.32	68.20	-7.88	52.22	6.81	34.41	33.12	293	162	Peak	HORIZONTAL
2	5718.08	62.34	78.20	-15.86	54.21	6.83	34.43	33.13	293	162	Peak	HORIZONTAL
3	5790.19	110.14			101.92	6.90	34.48	33.16	293	162	Peak	HORIZONTAL
4	5793.08	99.54			91.32	6.90	34.48	33.16	293	162	Average	HORIZONTAL
5	5856.86	68.29	78.20	-9.91	59.99	6.95	34.52	33.17	293	162	Peak	HORIZONTAL
6	5861.67	65.87	68.20	-2.33	57.56	6.97	34.52	33.18	293	162	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 4

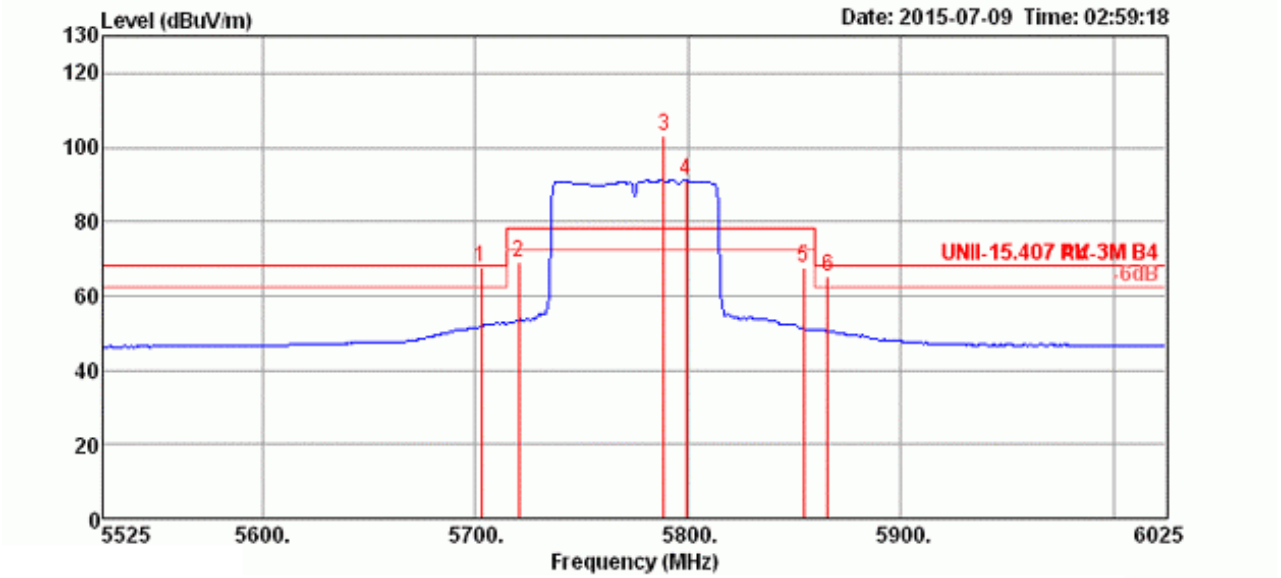
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.00	53.92	54.00	-0.08	47.02	6.21	33.74	33.05	182	289	Average	HORIZONTAL
2	5150.00	67.88	74.00	-6.12	60.98	6.21	33.74	33.05	182	289	Peak	HORIZONTAL
3	5234.00	92.65			85.53	6.30	33.87	33.05	182	289	Average	HORIZONTAL
4	5234.00	103.32			96.20	6.30	33.87	33.05	182	289	Peak	HORIZONTAL
5	5350.00	47.76	54.00	-6.24	40.29	6.47	34.06	33.06	182	289	Average	HORIZONTAL
6	5350.00	62.16	74.00	-11.84	54.69	6.47	34.06	33.06	182	289	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5702.89	67.88	68.20	-0.32	59.77	6.81	34.42	33.12	296	171	Peak	HORIZONTAL
2	5720.51	69.16	78.20	-9.04	61.03	6.83	34.43	33.13	296	171	Peak	HORIZONTAL
3	5788.62	103.35			95.13	6.90	34.48	33.16	296	171	Peak	HORIZONTAL
4	5799.04	90.94			82.72	6.90	34.48	33.16	296	171	Average	HORIZONTAL
5	5854.33	67.70	78.20	-10.50	59.40	6.95	34.52	33.17	296	171	Peak	HORIZONTAL
6	5865.55	65.04	68.20	-3.16	56.73	6.97	34.52	33.18	296	171	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

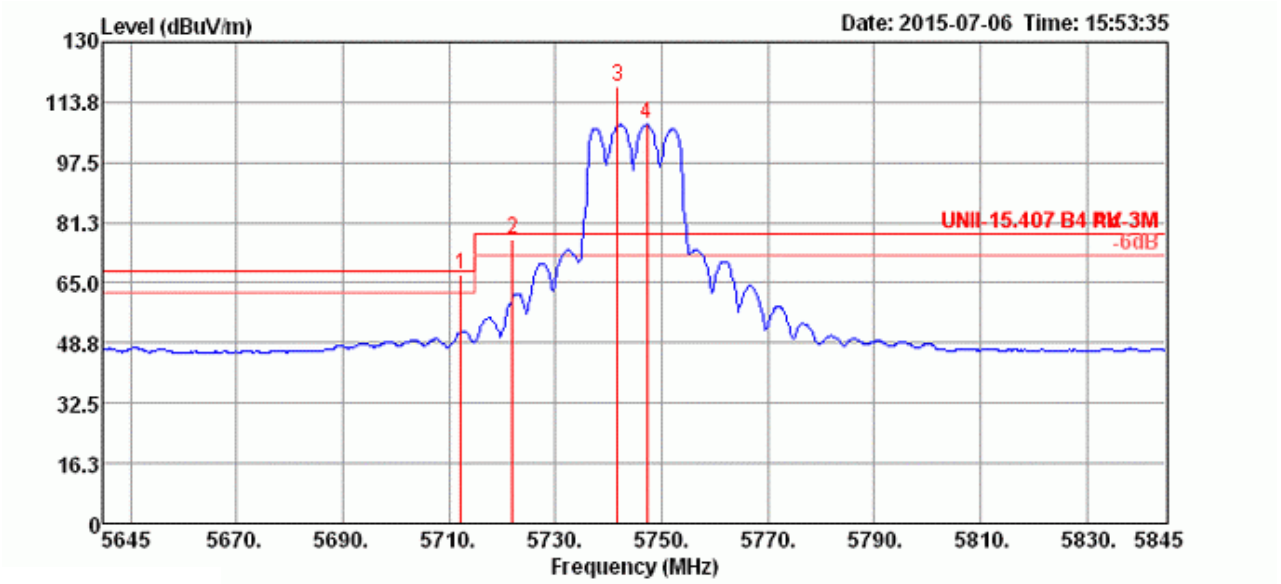
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Radio 2 Non-beamforming Mode>: 2TX, 1S

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 4

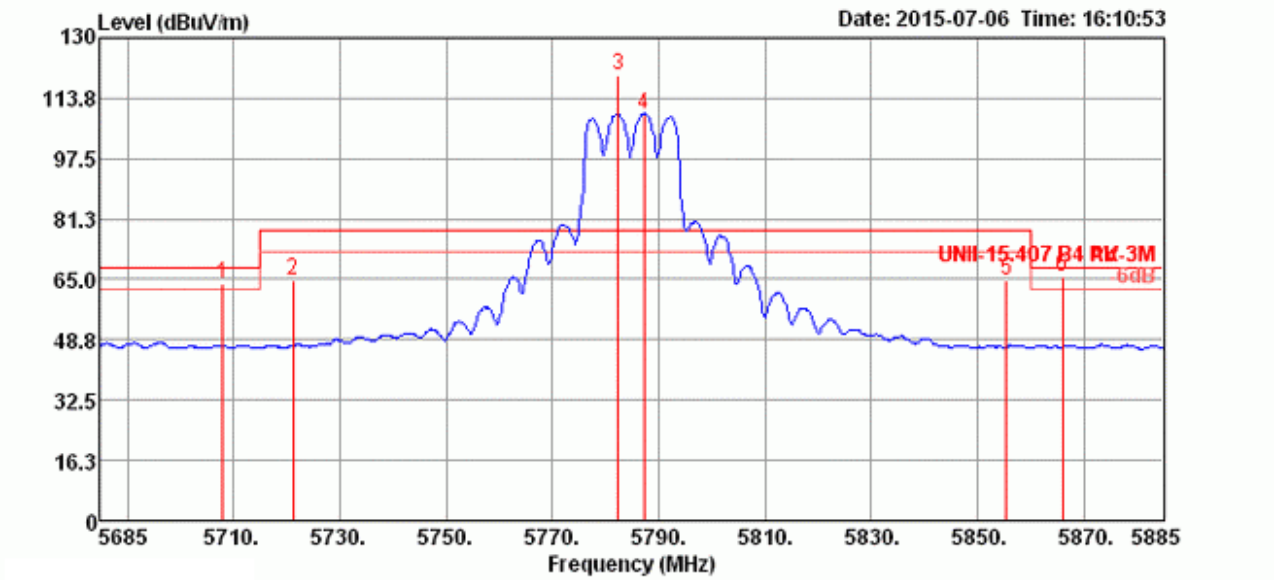
Channel 36



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5712.31	66.99	68.20	-1.21	58.87	6.83	34.42	33.13	Peak	173	294	HORIZONTAL
2	5721.92	76.96	78.20	-1.24	68.83	6.83	34.43	33.13	Peak	173	294	HORIZONTAL
3	5741.80	118.14			109.98	6.86	34.44	33.14	Peak	173	294	HORIZONTAL
4	5747.24	107.70			99.54	6.86	34.44	33.14	Average	173	294	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

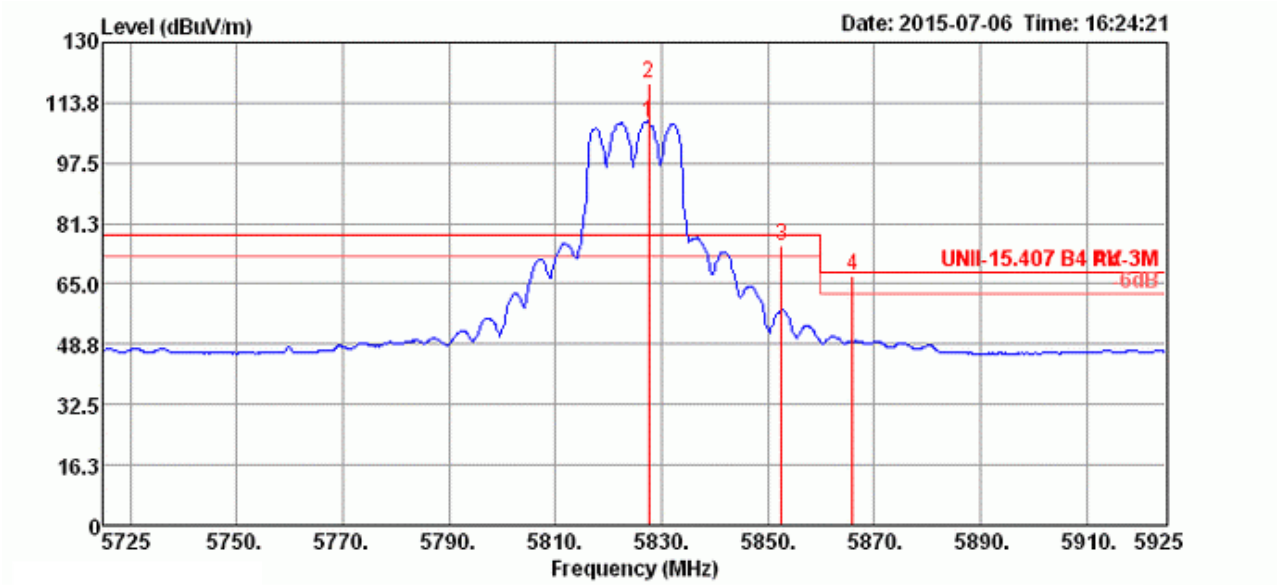
Channel 40



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5708.08	63.59	68.20	-4.61	55.47	6.83	34.42	33.13	Peak	172	296	HORIZONTAL
2	5721.22	64.53	78.20	-13.67	56.40	6.83	34.43	33.13	Peak	172	296	HORIZONTAL
3	5782.44	119.72			111.51	6.90	34.47	33.16	Peak	172	296	HORIZONTAL
4	5787.24	109.47			101.25	6.90	34.48	33.16	Average	172	296	HORIZONTAL
5	5855.51	64.98	78.20	-13.22	56.68	6.95	34.52	33.17	Peak	172	296	HORIZONTAL
6	5866.09	65.52	68.20	-2.68	57.21	6.97	34.52	33.18	Peak	172	296	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

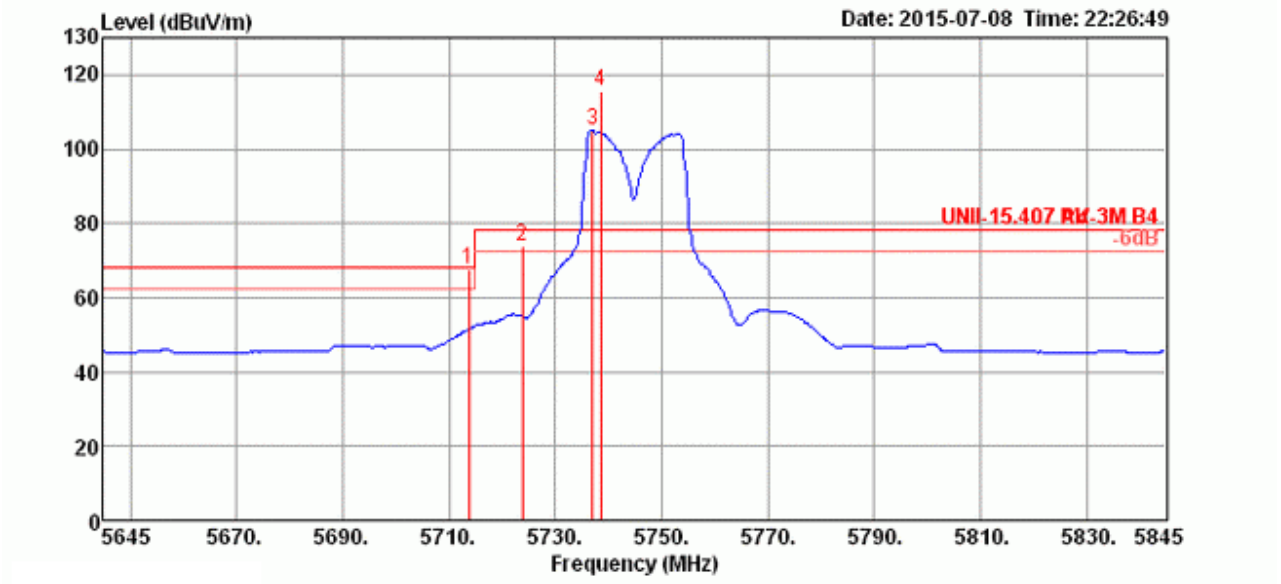


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5827.56	108.48			100.22	6.92	34.50	33.16	Average	171	296	HORIZONTAL
2	5827.56	118.74			110.48	6.92	34.50	33.16	Peak	171	296	HORIZONTAL
3	5852.56	75.32	78.20	-2.88	67.03	6.95	34.51	33.17	Peak	171	296	HORIZONTAL
4	5866.03	67.18	68.20	-1.02	58.87	6.97	34.52	33.18	Peak	171	296	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5240 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 4 + Chain 5

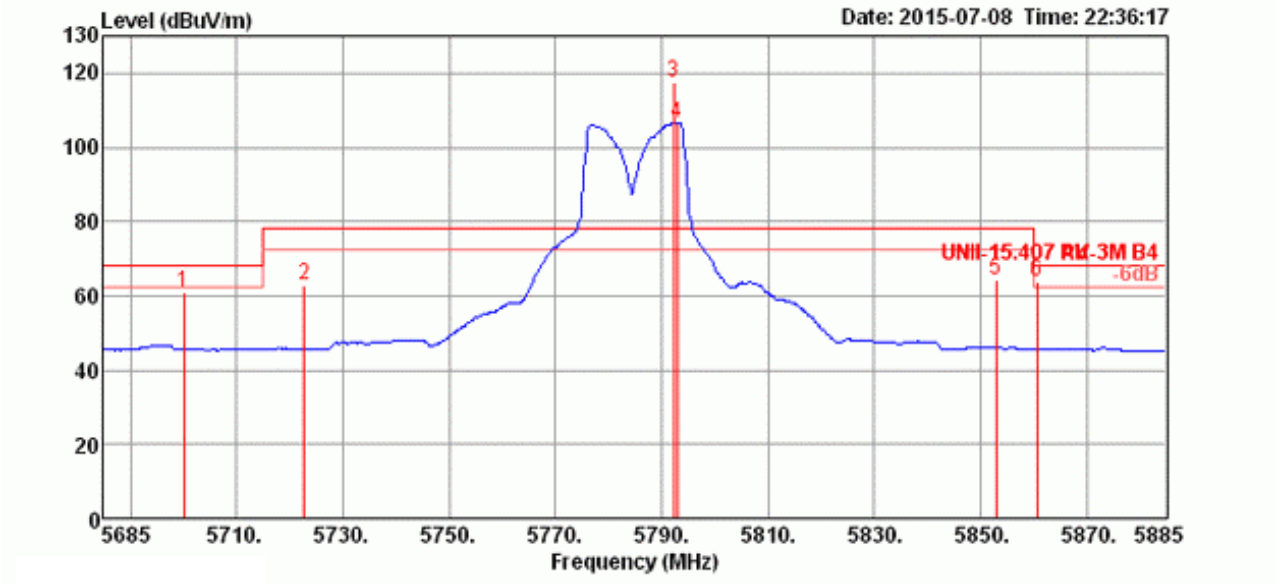
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5713.72	67.79	68.20	-0.41	59.67	6.83	34.42	33.13	284	166	Peak	HORIZONTAL
2	5723.85	73.99	78.20	-4.21	65.86	6.83	34.43	33.13	284	166	Peak	HORIZONTAL
3	5736.99	104.99			96.83	6.86	34.44	33.14	284	166	Average	HORIZONTAL
4	5738.59	115.83			107.67	6.86	34.44	33.14	284	166	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

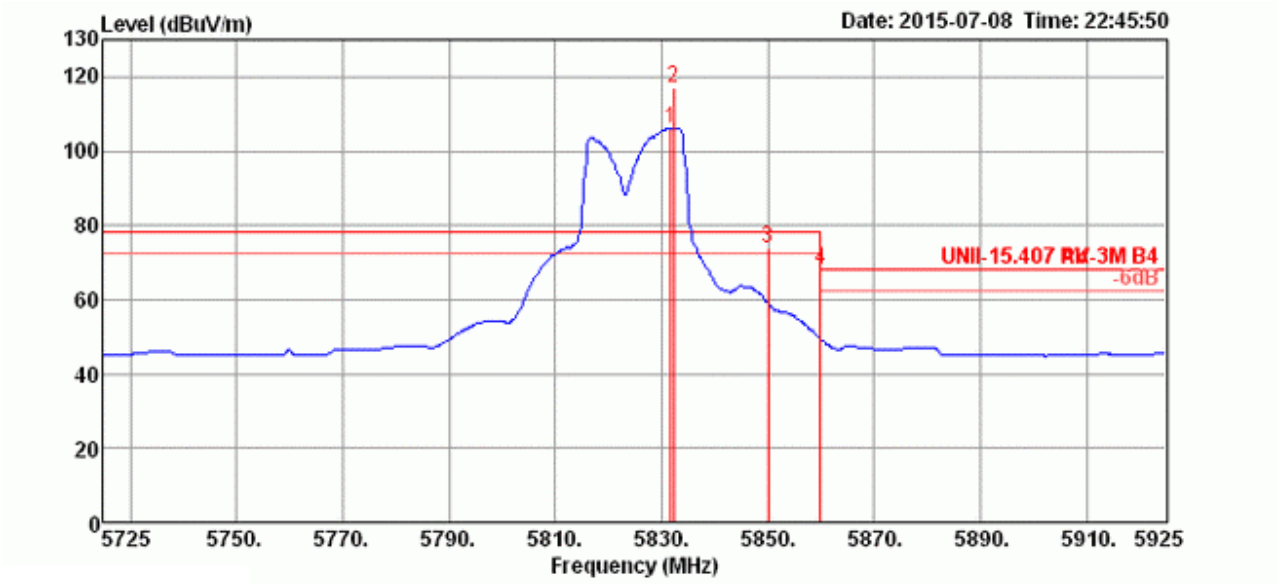
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5700.06	60.71	68.20	-7.49	52.61	6.81	34.41	33.12	290	174	Peak	HORIZONTAL
2	5722.82	62.61	78.20	-15.59	54.48	6.83	34.43	33.13	290	174	Peak	HORIZONTAL
3	5792.37	117.62			109.40	6.90	34.48	33.16	290	174	Peak	HORIZONTAL
4	5793.01	106.64			98.42	6.90	34.48	33.16	290	174	Average	HORIZONTAL
5	5852.95	64.50	78.20	-13.70	56.21	6.95	34.51	33.17	290	174	Peak	HORIZONTAL
6	5860.64	63.81	68.20	-4.39	55.50	6.97	34.52	33.18	290	174	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

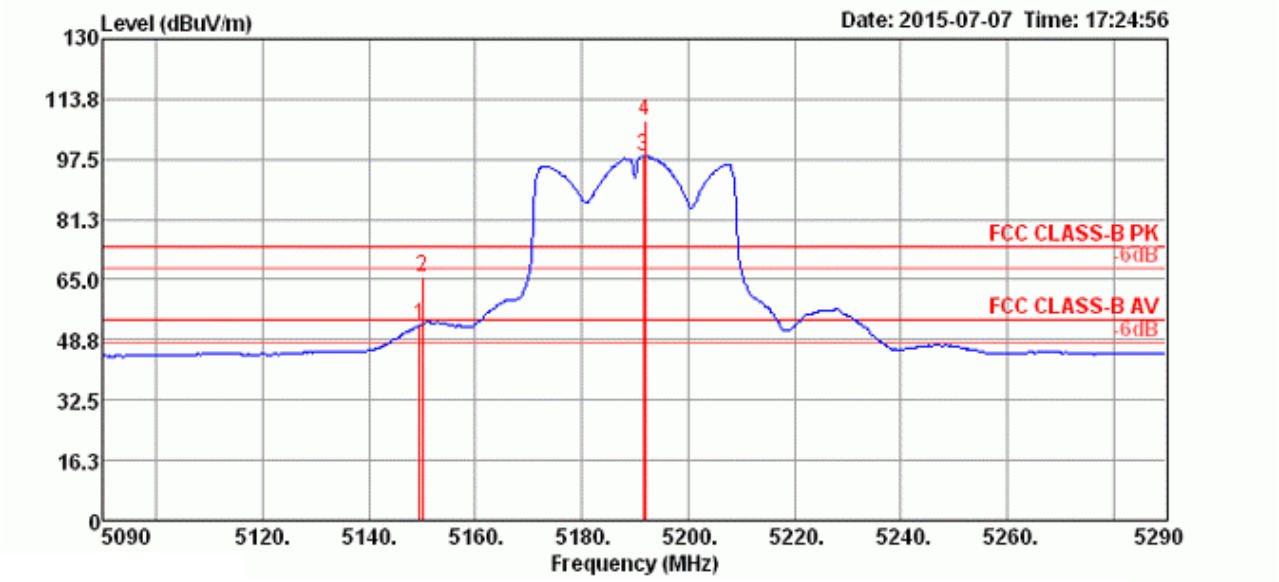


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5831.73	106.16			97.90	6.92	34.50	33.16	297	189	Average	HORIZONTAL
2	5832.37	117.20			108.92	6.95	34.50	33.17	297	189	Peak	HORIZONTAL
3	5850.00	74.10	78.20	-4.10	65.81	6.95	34.51	33.17	297	189	Peak	HORIZONTAL
4	5860.00	68.03	68.20	-0.17	59.72	6.97	34.52	33.18	297	189	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 4 + Chain 5

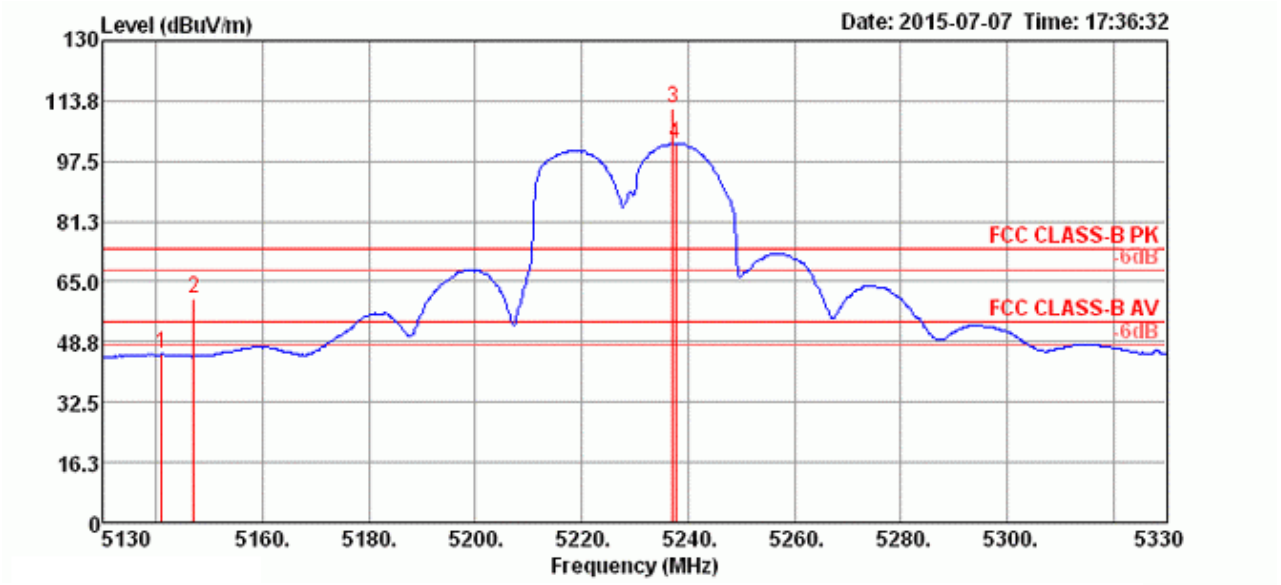
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5149.62	52.63	54.00	-1.37	45.73	6.21	33.74	33.05	Average	164	53	HORIZONTAL
2	5150.00	65.74	74.00	-8.26	58.84	6.21	33.74	33.05	Peak	164	53	HORIZONTAL
3	5191.60	98.39			91.38	6.24	33.82	33.05	Average	164	53	HORIZONTAL
4	5191.92	107.74			100.73	6.24	33.82	33.05	Peak	164	53	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

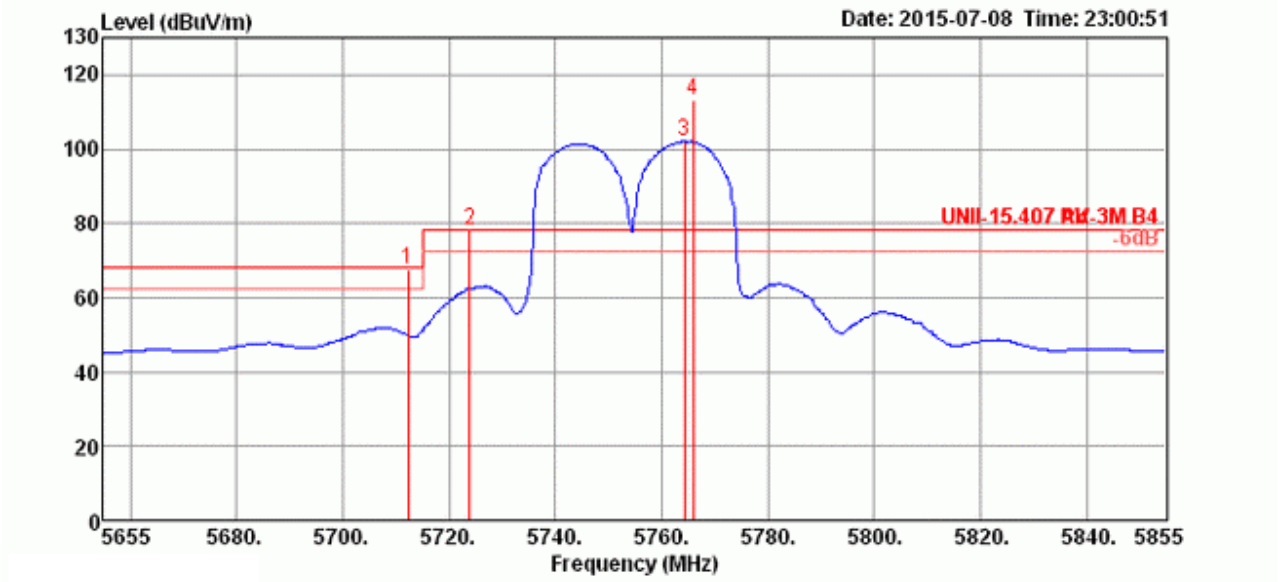


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5140.90	45.36	54.00	-8.64	38.50	6.17	33.74	33.05	Average	152	298	HORIZONTAL
2	5146.99	60.45	74.00	-13.55	53.55	6.21	33.74	33.05	Peak	152	298	HORIZONTAL
3	5237.05	111.82			104.70	6.30	33.87	33.05	Peak	152	298	HORIZONTAL
4	5237.69	102.21			95.09	6.30	33.87	33.05	Average	152	298	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 4 + Chain 5

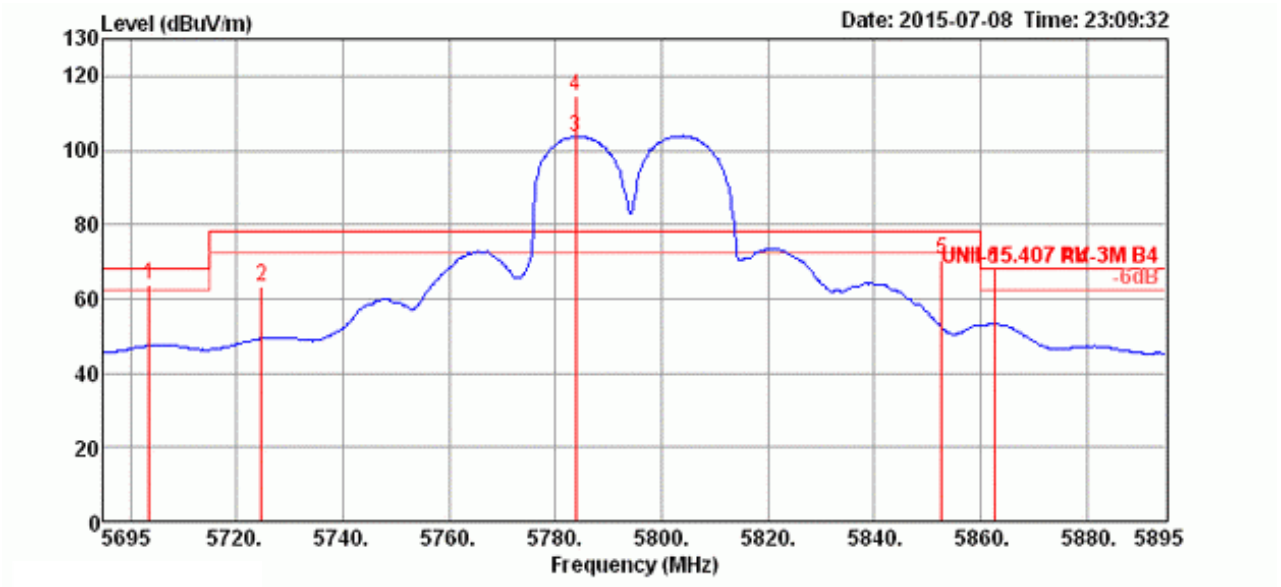
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5712.37	67.67	68.20	-0.53	59.55	6.83	34.42	33.13	290	174	Peak	HORIZONTAL
2	5723.91	78.14	78.20	-0.06	70.01	6.83	34.43	33.13	290	174	Peak	HORIZONTAL
3	5764.30	102.09			93.90	6.88	34.46	33.15	290	174	Average	HORIZONTAL
4	5765.90	113.08			104.89	6.88	34.46	33.15	290	174	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

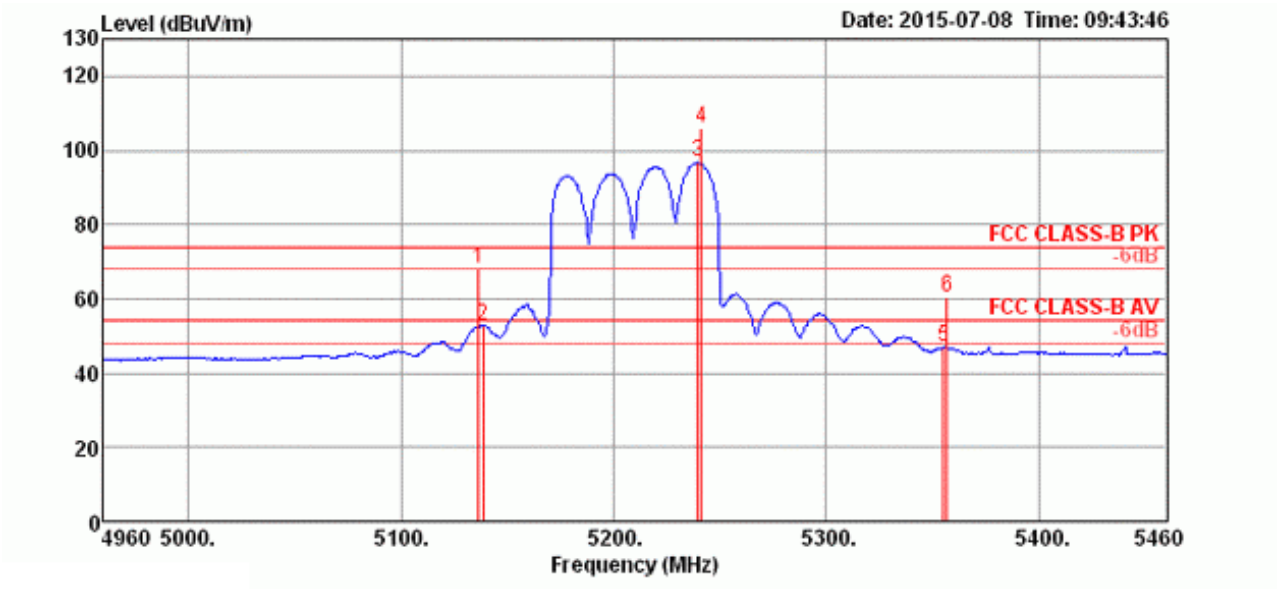


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5703.65	63.63	68.20	-4.57	55.52	6.81	34.42	33.12	293	172	Peak	HORIZONTAL
2	5724.68	63.40	78.20	-14.80	55.27	6.83	34.43	33.13	293	172	Peak	HORIZONTAL
3	5783.78	103.83			95.62	6.90	34.47	33.16	293	172	Average	HORIZONTAL
4	5783.78	114.70			106.49	6.90	34.47	33.16	293	172	Peak	HORIZONTAL
5	5852.69	70.70	78.20	-7.50	62.41	6.95	34.51	33.17	293	172	Peak	HORIZONTAL
6	5862.63	68.01	68.20	-0.19	59.70	6.97	34.52	33.18	293	172	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 4 + Chain 5

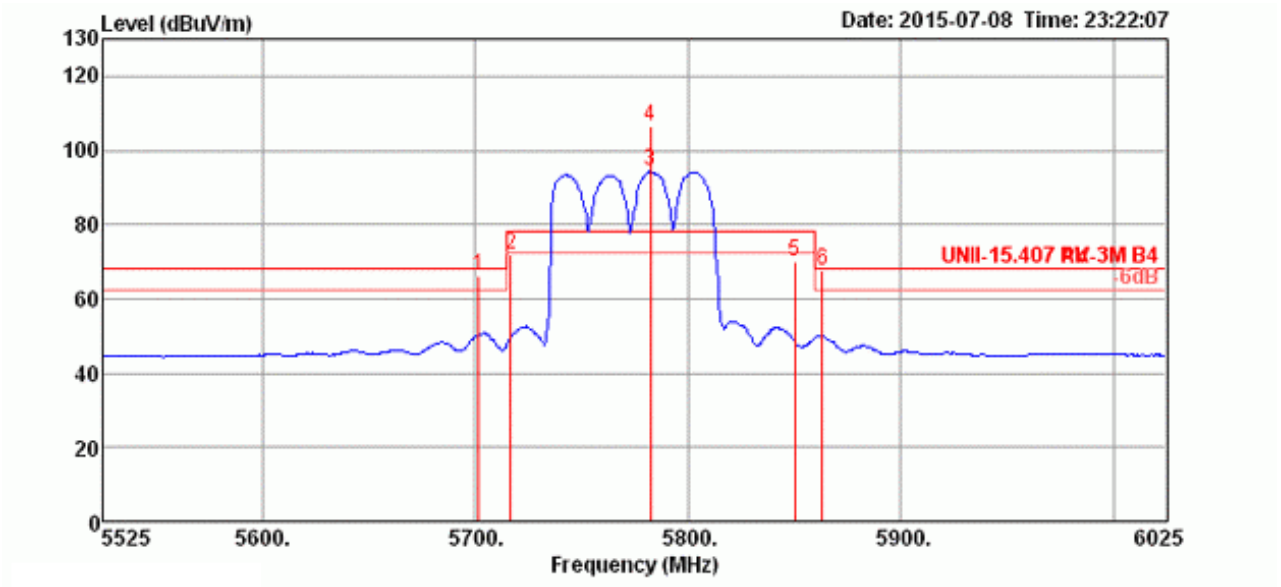
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5136.28	67.95	74.00	-6.05	61.12	6.17	33.71	33.05	292	150	Peak	HORIZONTAL
2	5138.69	52.79	54.00	-1.21	45.96	6.17	33.71	33.05	292	150	Average	HORIZONTAL
3	5239.65	96.80			89.68	6.30	33.87	33.05	292	150	Average	HORIZONTAL
4	5241.25	106.01			98.89	6.30	33.87	33.05	292	150	Peak	HORIZONTAL
5	5355.03	46.89	54.00	-7.11	39.42	6.47	34.06	33.06	292	150	Average	HORIZONTAL
6	5356.64	60.40	74.00	-13.60	52.93	6.47	34.06	33.06	292	150	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5701.28	66.35	68.20	-1.85	58.24	6.81	34.42	33.12	299	175	Peak	HORIZONTAL
2	5716.51	71.77	78.20	-6.43	63.65	6.83	34.42	33.13	299	175	Peak	HORIZONTAL
3	5782.21	94.32			86.11	6.90	34.47	33.16	299	175	Average	HORIZONTAL
4	5782.21	106.45			98.24	6.90	34.47	33.16	299	175	Peak	HORIZONTAL
5	5850.00	70.16	78.20	-8.04	61.87	6.95	34.51	33.17	299	175	Peak	HORIZONTAL
6	5863.14	67.83	68.20	-0.37	59.52	6.97	34.52	33.18	299	175	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

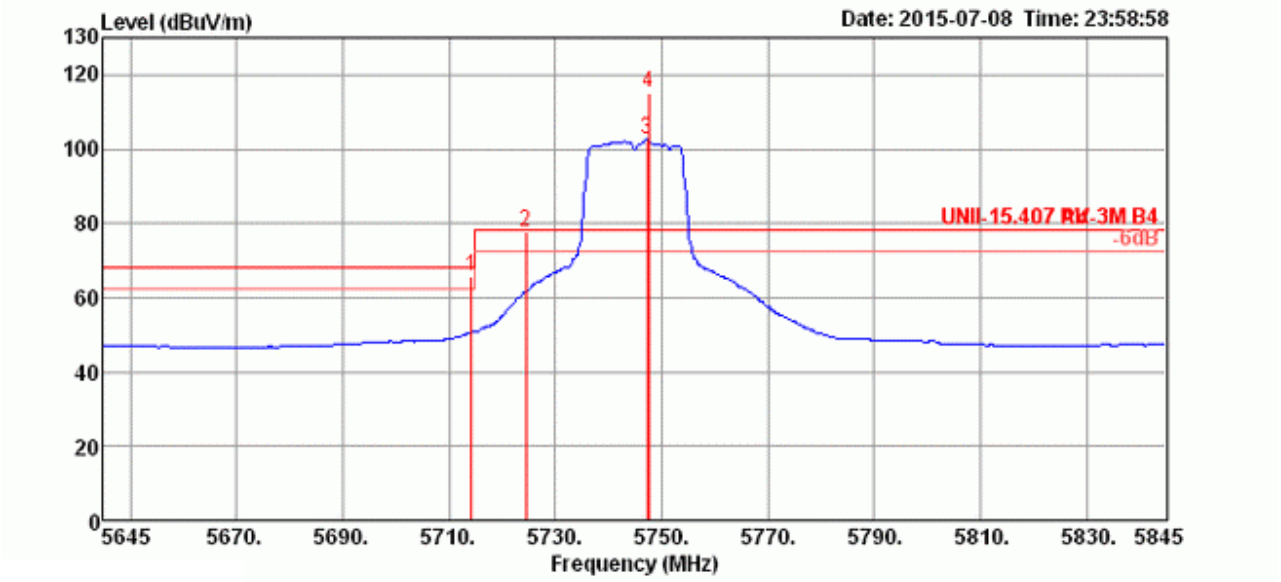
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Radio 2 Non-beamforming Mode>: 2TX, 2S

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 CH 149, 157, 165 / Chain 4 + Chain 5

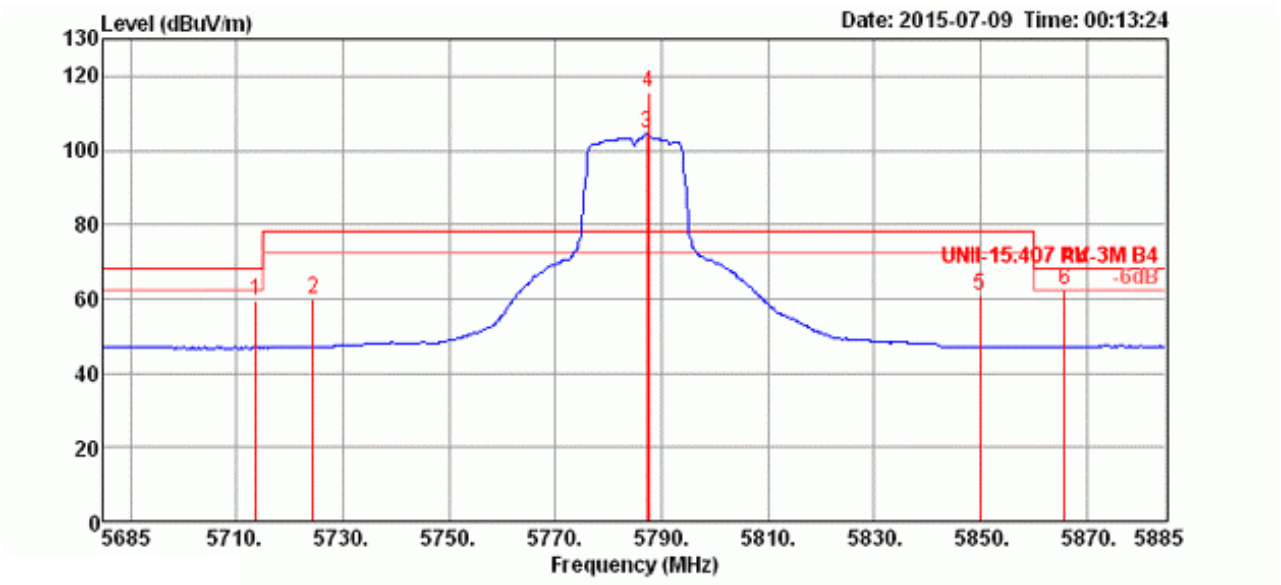
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5714.23	65.65	68.20	-2.55	57.53	6.83	34.42	33.13	65	174	Peak	HORIZONTAL
2	5724.49	77.81	78.20	-0.39	69.68	6.83	34.43	33.13	65	174	Peak	HORIZONTAL
3	5747.24	102.52			94.36	6.86	34.44	33.14	65	174	Average	HORIZONTAL
4	5747.56	115.29			107.13	6.86	34.44	33.14	65	174	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

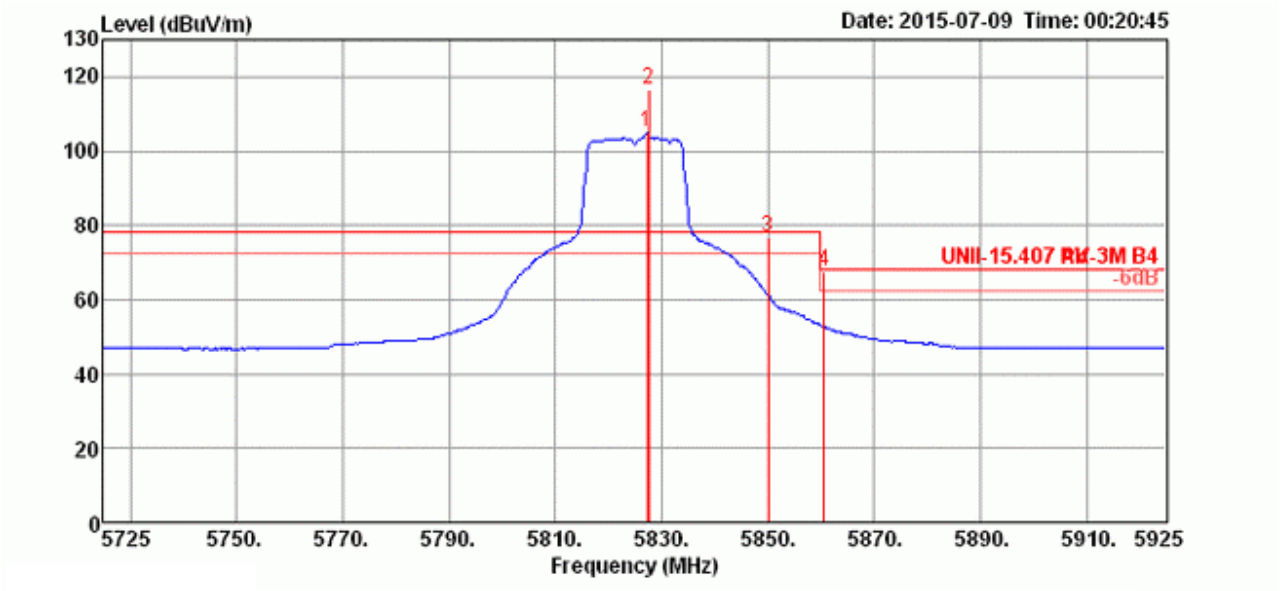
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5713.72	59.46	68.20	-8.74	51.34	6.83	34.42	33.13	57	181	Peak	HORIZONTAL
2	5724.36	60.02	78.20	-18.18	51.89	6.83	34.43	33.13	57	181	Peak	HORIZONTAL
3	5787.24	104.48			96.26	6.90	34.48	33.16	57	181	Average	HORIZONTAL
4	5787.56	115.85			107.63	6.90	34.48	33.16	57	181	Peak	HORIZONTAL
5	5850.00	61.14	78.20	-17.06	52.85	6.95	34.51	33.17	57	181	Peak	HORIZONTAL
6	5865.77	62.26	68.20	-5.94	53.95	6.97	34.52	33.18	57	181	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

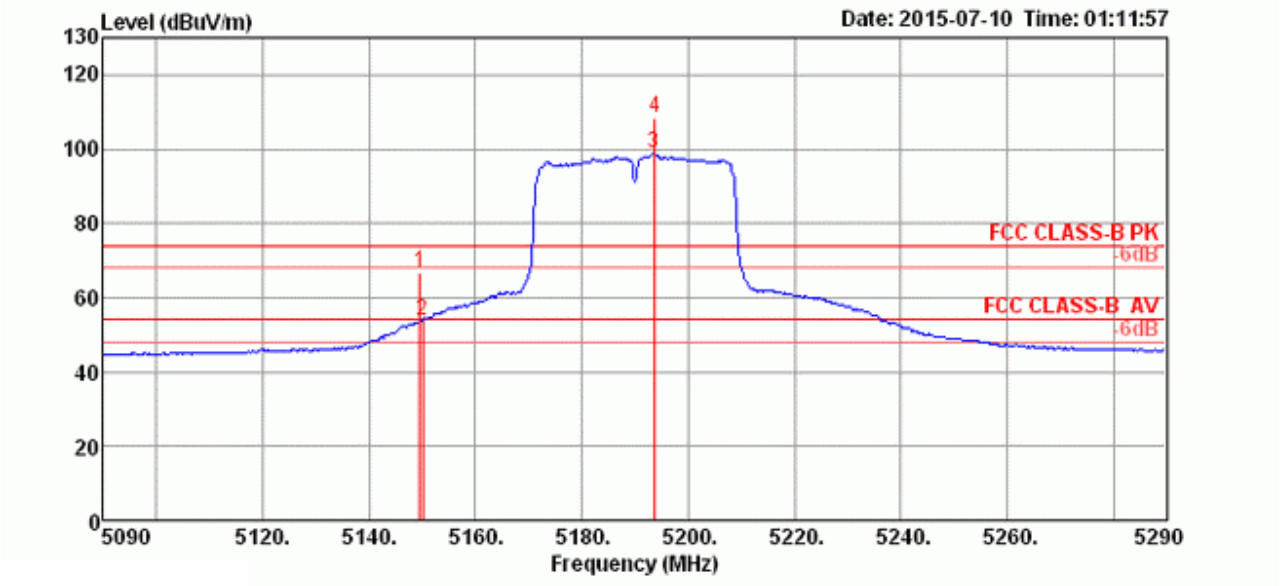


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5827.24	104.82			96.56	6.92	34.50	33.16	60	179	Average	HORIZONTAL
2	5827.56	116.35			108.09	6.92	34.50	33.16	60	179	Peak	HORIZONTAL
3	5850.00	76.70	78.20	-1.50	68.41	6.95	34.51	33.17	60	179	Peak	HORIZONTAL
4	5860.58	67.84	68.20	-0.36	59.53	6.97	34.52	33.18	60	179	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 CH 38, 46 / Chain 4 + Chain 5

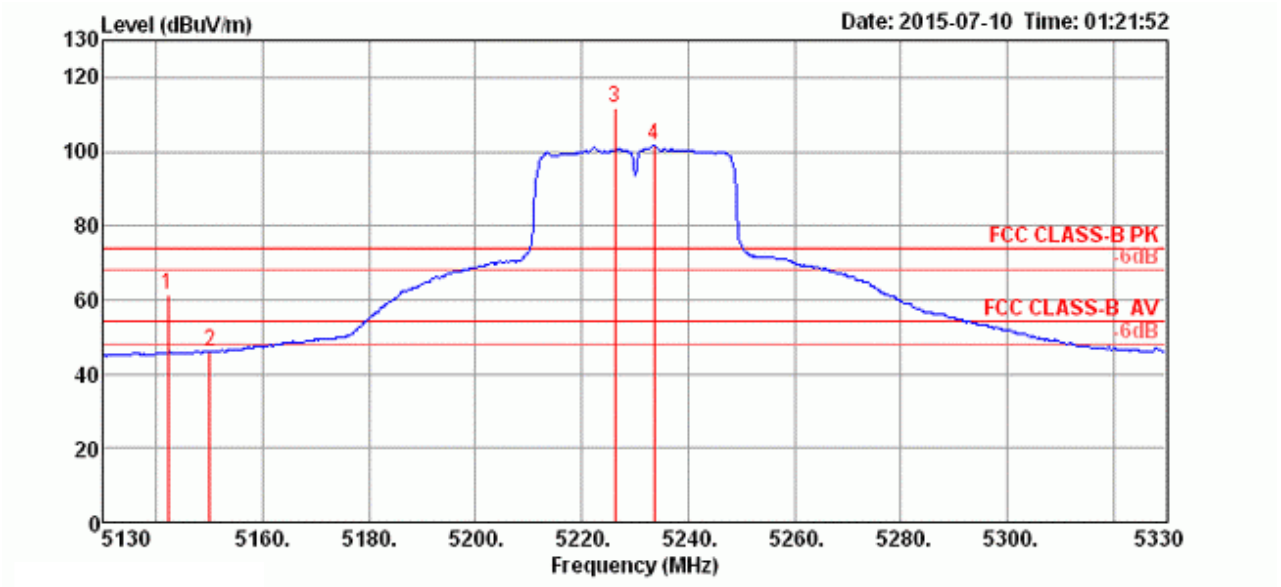
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.62	66.60	74.00	-7.40	59.70	6.21	33.74	33.05	100	288	Peak	HORIZONTAL
2	5150.00	53.66	54.00	-0.34	46.76	6.21	33.74	33.05	100	288	Average	HORIZONTAL
3	5193.53	98.95			91.94	6.24	33.82	33.05	100	288	Average	HORIZONTAL
4	5193.85	108.39			101.38	6.24	33.82	33.05	100	288	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

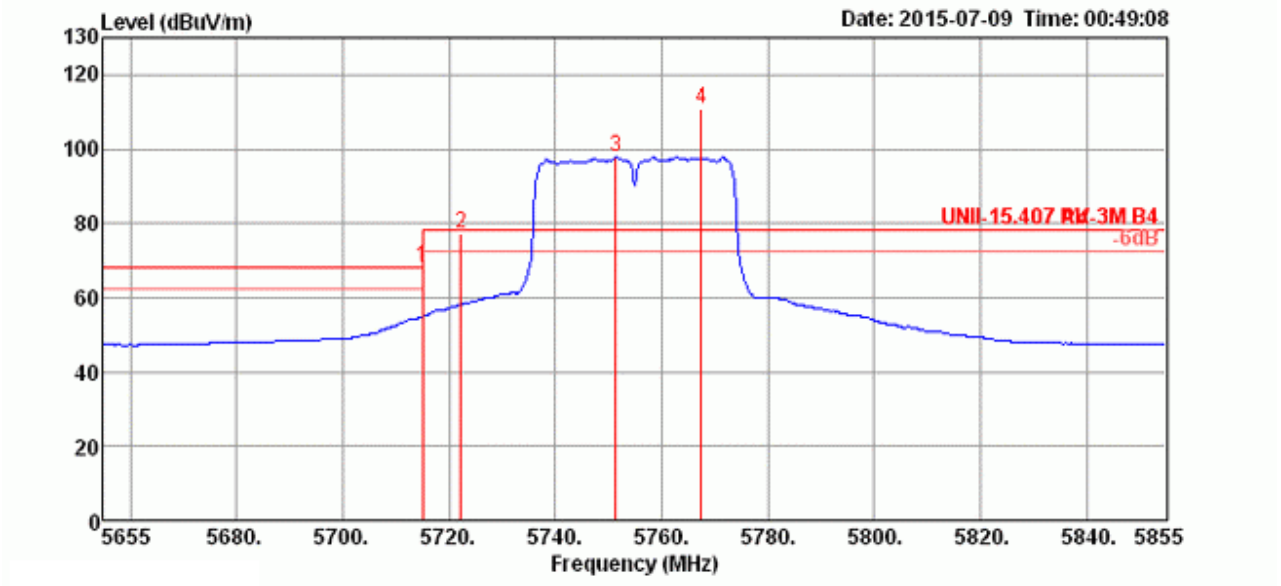


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5142.18	61.22	74.00	-12.78	54.36	6.17	33.74	33.05	116	331	Peak	HORIZONTAL
2	5150.00	45.99	54.00	-8.01	39.09	6.21	33.74	33.05	116	331	Average	HORIZONTAL
3	5226.15	112.00			104.88	6.30	33.87	33.05	116	331	Peak	HORIZONTAL
4	5233.53	101.87			94.75	6.30	33.87	33.05	116	331	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 CH 151, 159 / Chain 4 + Chain 5

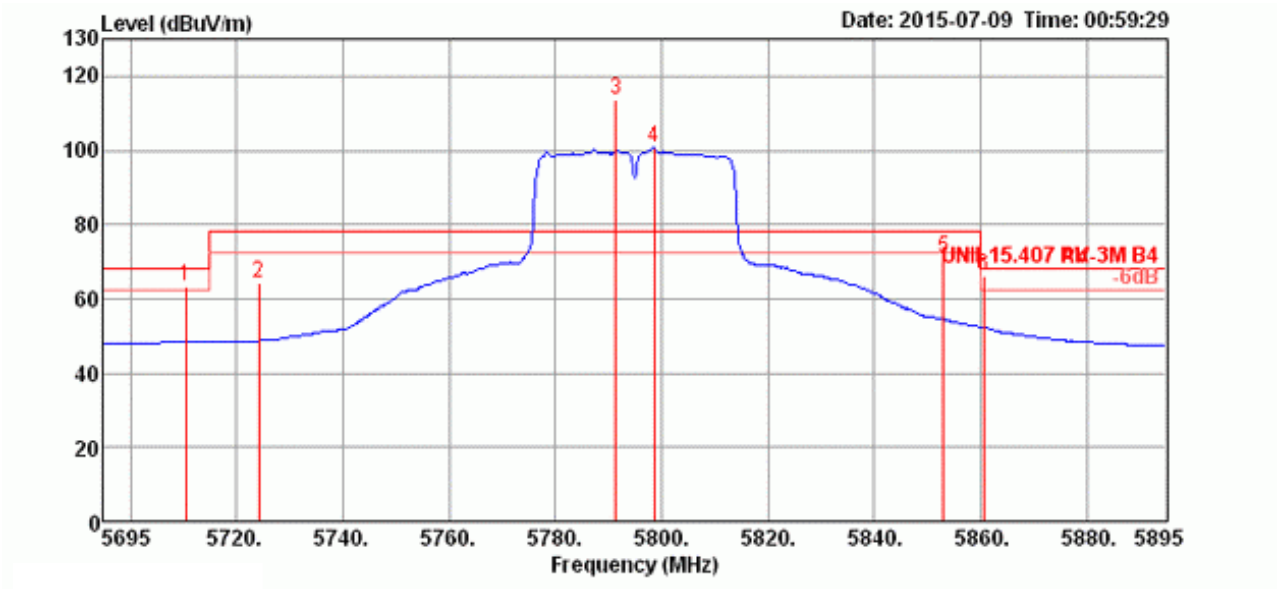
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5715.00	68.10	68.20	-0.10	59.98	6.83	34.42	33.13	283	174	Peak	HORIZONTAL
2	5722.31	77.37	78.20	-0.83	69.24	6.83	34.43	33.13	283	174	Peak	HORIZONTAL
3	5751.47	98.00			89.84	6.86	34.44	33.14	283	174	Average	HORIZONTAL
4	5767.50	110.89			102.70	6.88	34.46	33.15	283	174	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

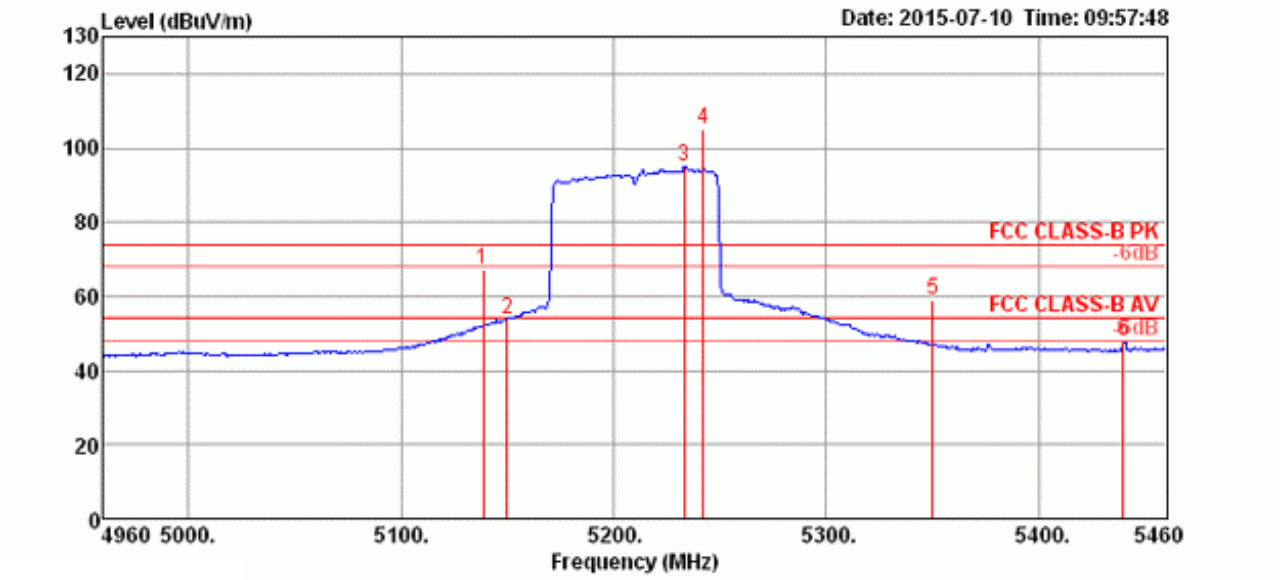


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5710.39	63.53	68.20	-4.67	55.41	6.83	34.42	33.13	304	175	Peak	HORIZONTAL
2	5724.17	64.20	78.20	-14.00	56.07	6.83	34.43	33.13	304	175	Peak	HORIZONTAL
3	5791.47	113.48			105.26	6.90	34.48	33.16	304	175	Peak	HORIZONTAL
4	5798.53	100.58			92.36	6.90	34.48	33.16	304	175	Average	HORIZONTAL
5	5853.01	70.98	78.20	-7.22	62.69	6.95	34.51	33.17	304	175	Peak	HORIZONTAL
6	5860.64	66.41	68.20	-1.79	58.10	6.97	34.52	33.18	304	175	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 CH 42, 155 / Chain 4 + Chain 5

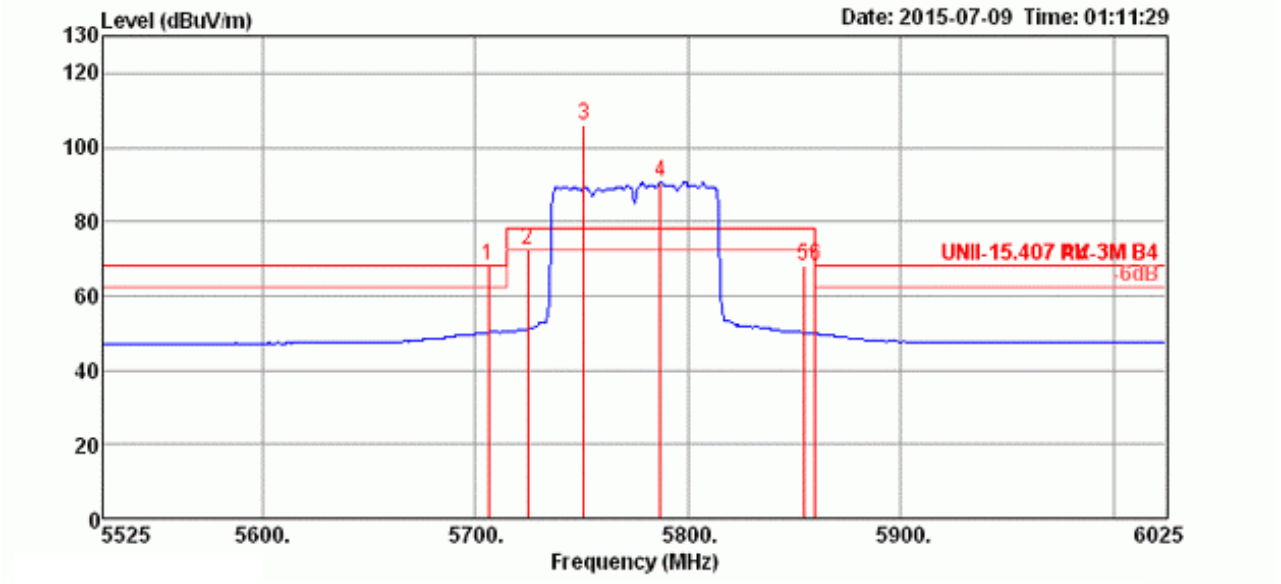
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5138.69	67.19	74.00	-6.81	60.36	6.17	33.71	33.05	188	293	Peak	HORIZONTAL
2	5150.00	53.86	54.00	-0.14	46.96	6.21	33.74	33.05	188	293	Average	HORIZONTAL
3	5233.24	95.12			88.00	6.30	33.87	33.05	188	293	Average	HORIZONTAL
4	5242.05	104.99			97.84	6.30	33.90	33.05	188	293	Peak	HORIZONTAL
5	5350.00	59.08	74.00	-14.92	51.61	6.47	34.06	33.06	188	293	Peak	HORIZONTAL
6	5439.97	47.79	54.00	-6.21	40.10	6.56	34.19	33.06	188	293	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5706.09	68.01	68.20	-0.19	59.89	6.83	34.42	33.13	293	171	Peak	HORIZONTAL
2	5724.52	72.67	78.20	-5.53	64.54	6.83	34.43	33.13	293	171	Peak	HORIZONTAL
3	5750.96	105.95			97.79	6.86	34.44	33.14	293	171	Peak	HORIZONTAL
4	5787.02	90.80			82.58	6.90	34.48	33.16	293	171	Average	HORIZONTAL
5	5854.33	68.25	78.20	-9.95	59.95	6.95	34.52	33.17	293	171	Peak	HORIZONTAL
6	5860.00	67.94	68.20	-0.26	59.63	6.97	34.52	33.18	293	171	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

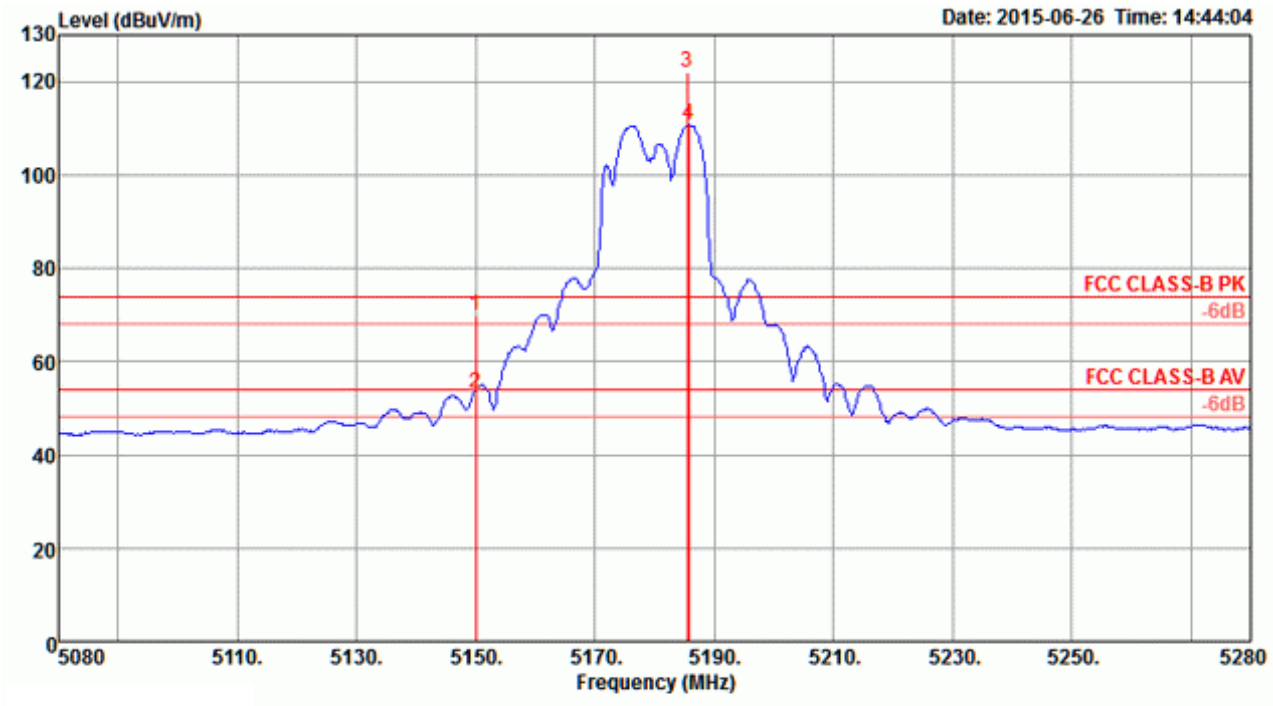
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Radio 2 Non-beamforming Mode>: 3TX, 1S

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 4 + Chain 5 + Chain 6

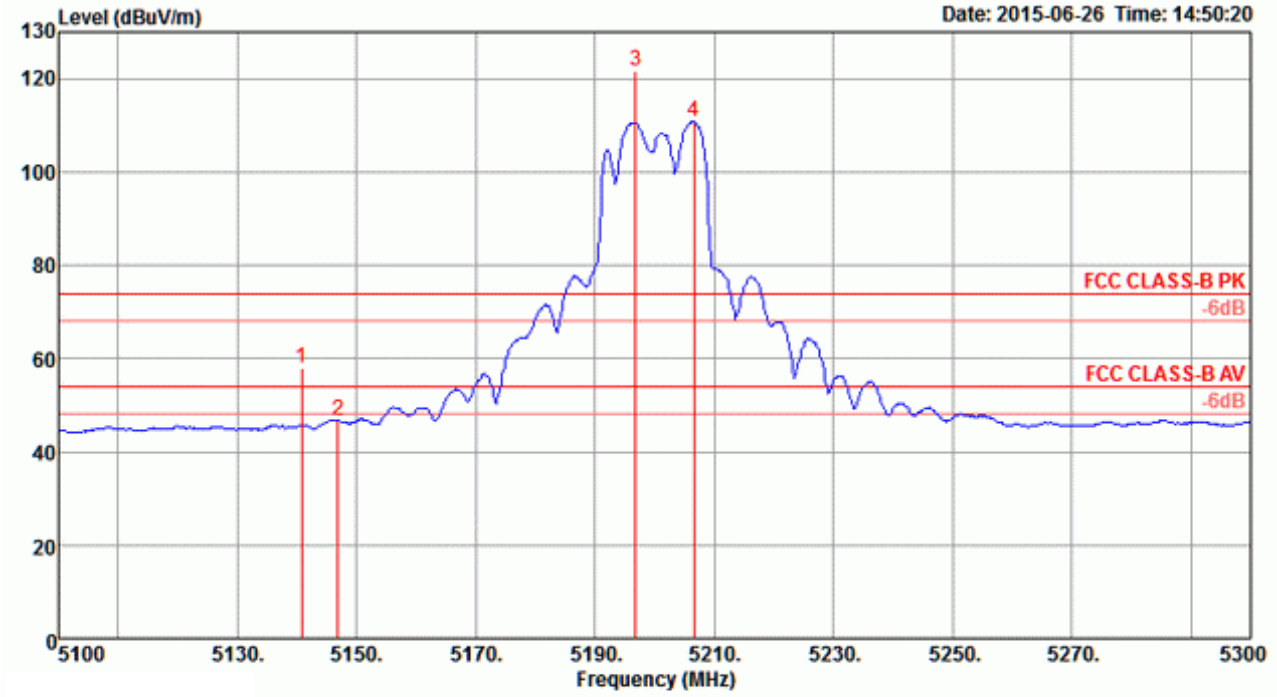
Channel 36



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5150.00	69.87	74.00	-4.13	66.81	4.26	33.27	34.47	107	192	Peak	HORIZONTAL
2	5150.00	53.40	54.00	-0.60	50.34	4.26	33.27	34.47	107	192	Average	HORIZONTAL
3	5185.50	121.96			118.83	4.27	33.33	34.47	107	192	Peak	HORIZONTAL
4	5185.79	110.85			107.72	4.27	33.33	34.47	107	192	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

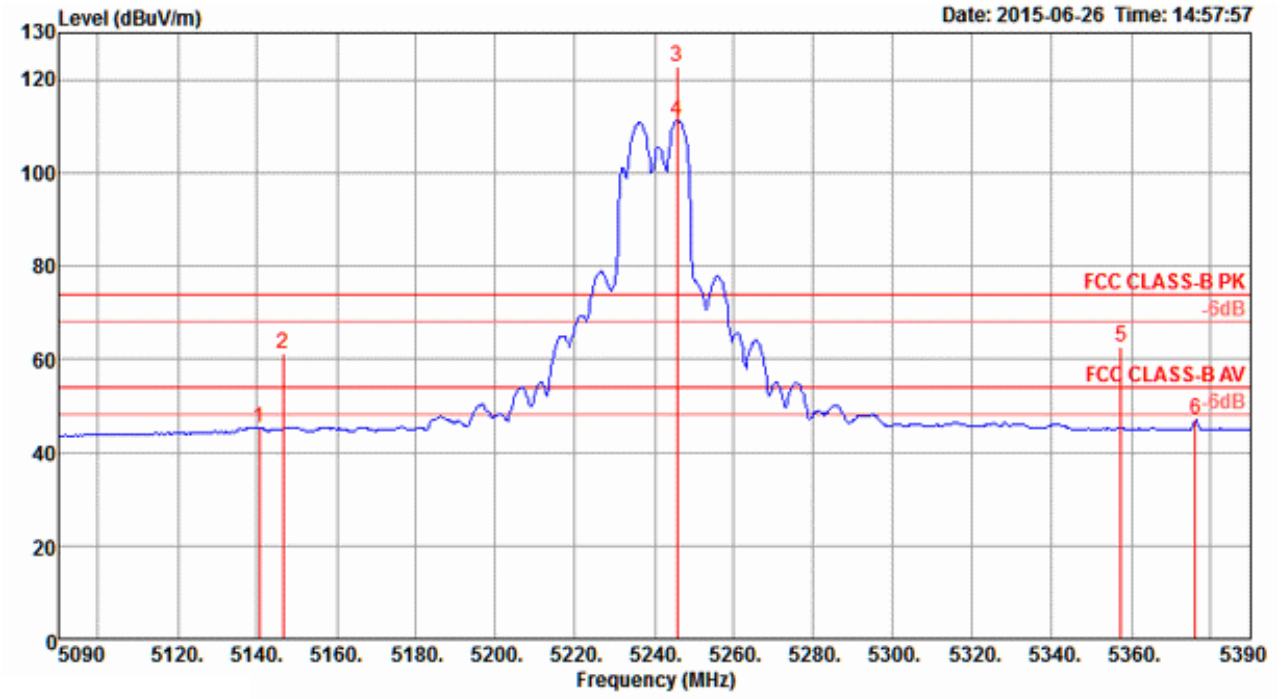
Channel 40



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5140.74	57.95	74.00	-16.05	54.89	4.26	33.27	34.47	107	172	Peak	HORIZONTAL
2	5146.82	46.74	54.00	-7.26	43.68	4.26	33.27	34.47	107	172	Average	HORIZONTAL
3	5196.82	121.81			118.64	4.28	33.36	34.47	107	172	Peak	HORIZONTAL
4	5206.66	110.69			107.52	4.28	33.36	34.47	107	172	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

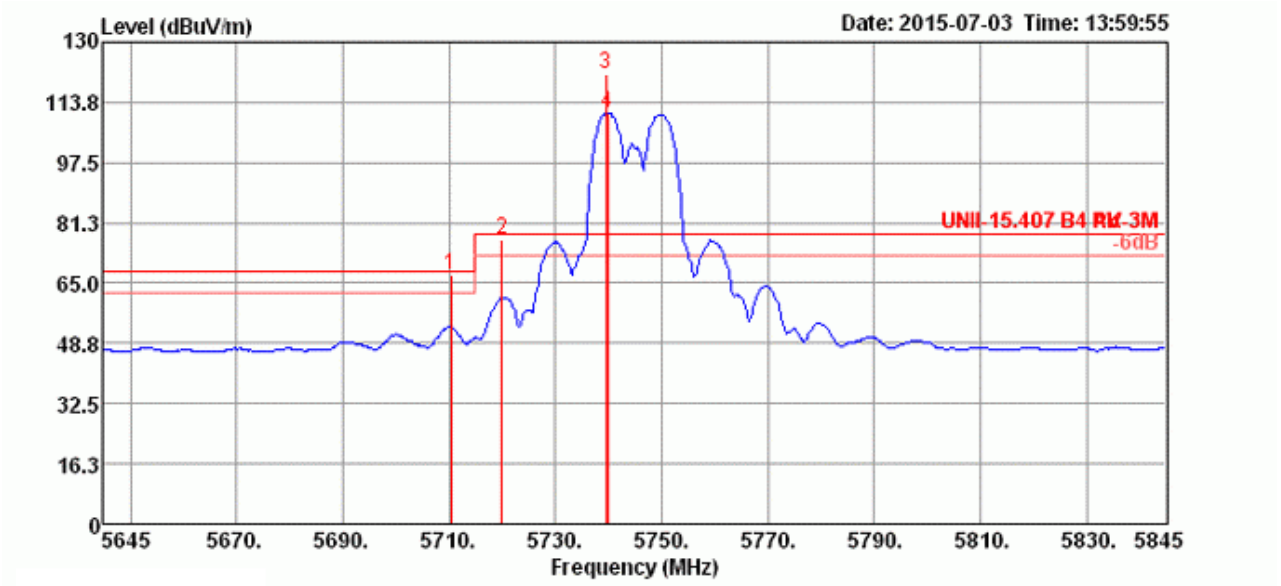


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5140.45	45.41	54.00	-8.59	42.35	4.26	33.27	34.47	102	196	Average	HORIZONTAL
2	5146.53	61.15	74.00	-12.85	58.09	4.26	33.27	34.47	102	196	Peak	HORIZONTAL
3	5245.64	122.71			119.43	4.30	33.45	34.47	102	196	Peak	HORIZONTAL
4	5245.64	111.29			108.01	4.30	33.45	34.47	102	196	Average	HORIZONTAL
5	5357.38	62.76	74.00	-11.24	59.25	4.35	33.63	34.47	102	196	Peak	HORIZONTAL
6	5376.05	47.09	54.00	-6.91	43.54	4.36	33.66	34.47	102	196	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 4 + Chain 5 + Chain 6

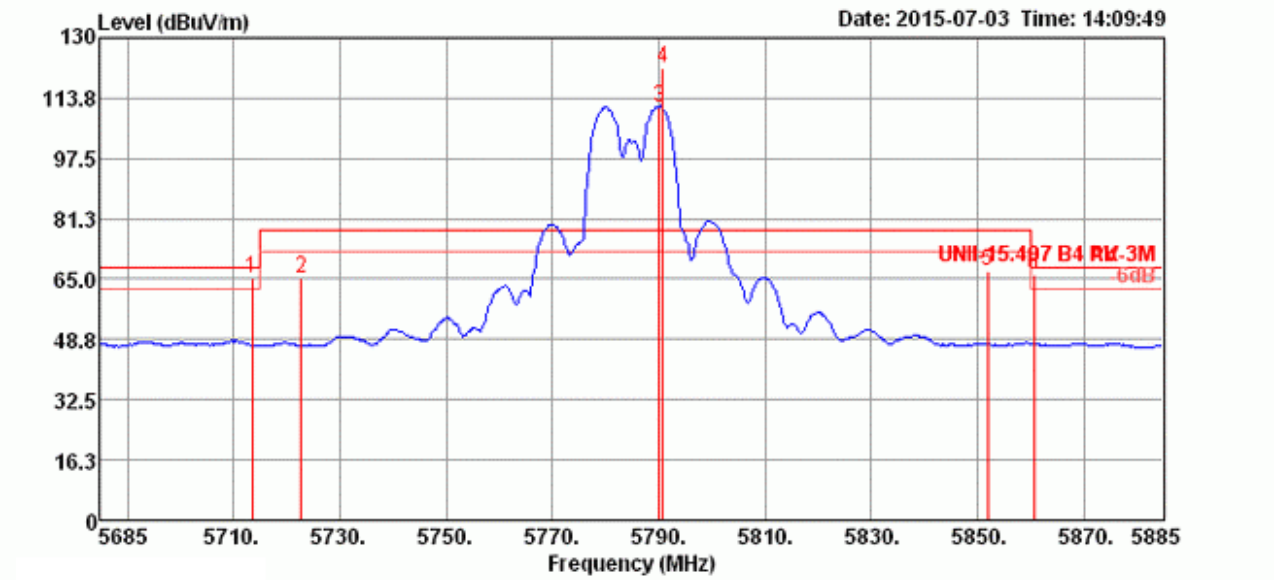
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5710.39	67.02	68.20	-1.18	58.90	6.83	34.42	33.13	Peak	178	287	HORIZONTAL
2	5720.00	76.54	78.20	-1.66	68.41	6.83	34.43	33.13	Peak	178	287	HORIZONTAL
3	5739.55	121.30			113.14	6.86	34.44	33.14	Peak	178	287	HORIZONTAL
4	5739.87	110.94			102.78	6.86	34.44	33.14	Average	178	287	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

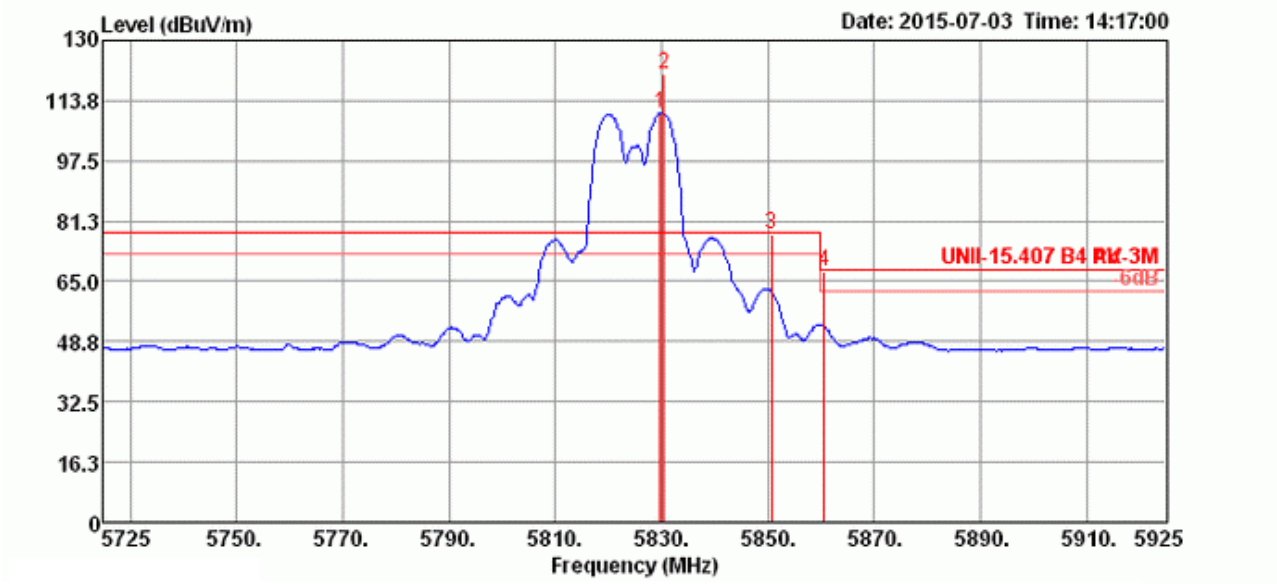
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5713.53	65.21	68.20	-2.99	57.09	6.83	34.42	33.13	Peak	174	287	HORIZONTAL
2	5722.82	65.03	78.20	-13.17	56.90	6.83	34.43	33.13	Peak	174	287	HORIZONTAL
3	5790.13	111.50			103.28	6.90	34.48	33.16	Average	174	287	HORIZONTAL
4	5790.77	121.74			113.52	6.90	34.48	33.16	Peak	174	287	HORIZONTAL
5	5851.99	67.20	78.20	-11.00	58.91	6.95	34.51	33.17	Peak	174	287	HORIZONTAL
6	5860.64	66.37	68.20	-1.83	58.06	6.97	34.52	33.18	Peak	174	287	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

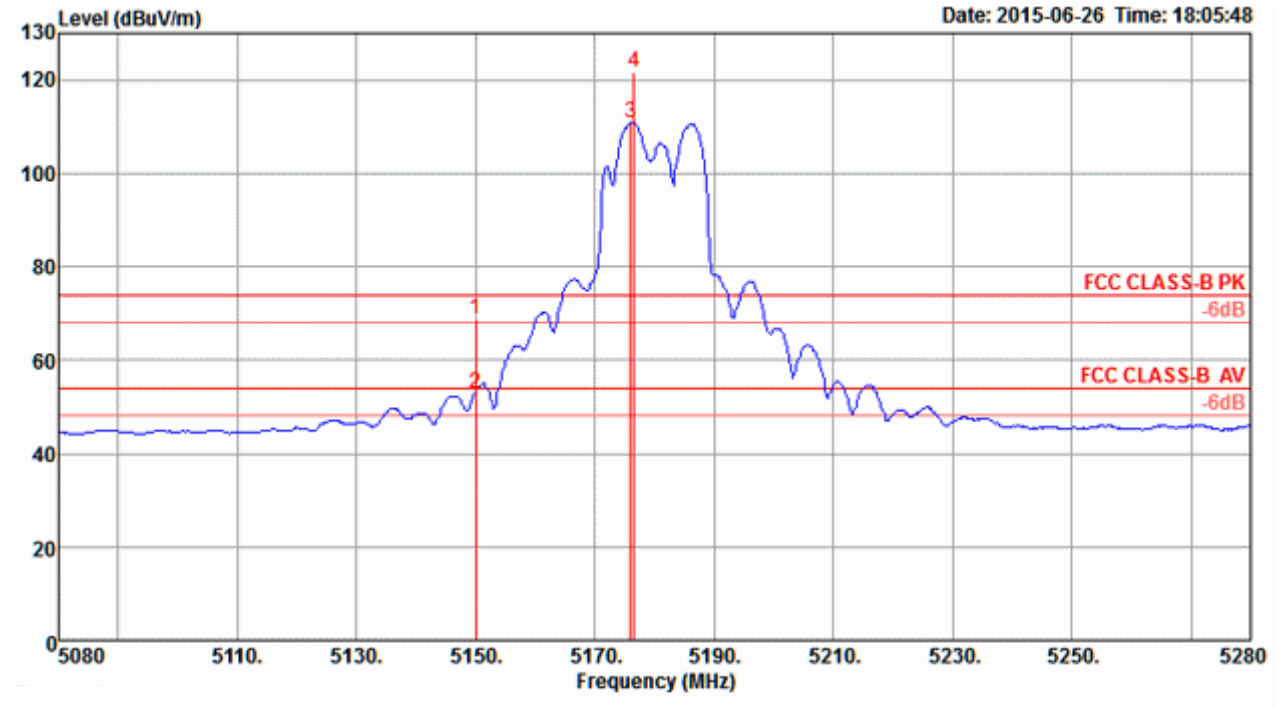


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5829.81	110.21			101.95	6.92	34.50	33.16	Average	174	288	HORIZONTAL
2	5830.45	121.06			112.80	6.92	34.50	33.16	Peak	174	288	HORIZONTAL
3	5850.64	77.93	78.20	-0.27	69.64	6.95	34.51	33.17	Peak	174	288	HORIZONTAL
4	5860.58	67.61	68.20	-0.59	59.30	6.97	34.52	33.18	Peak	174	288	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 4 + Chain 5 + Chain 6

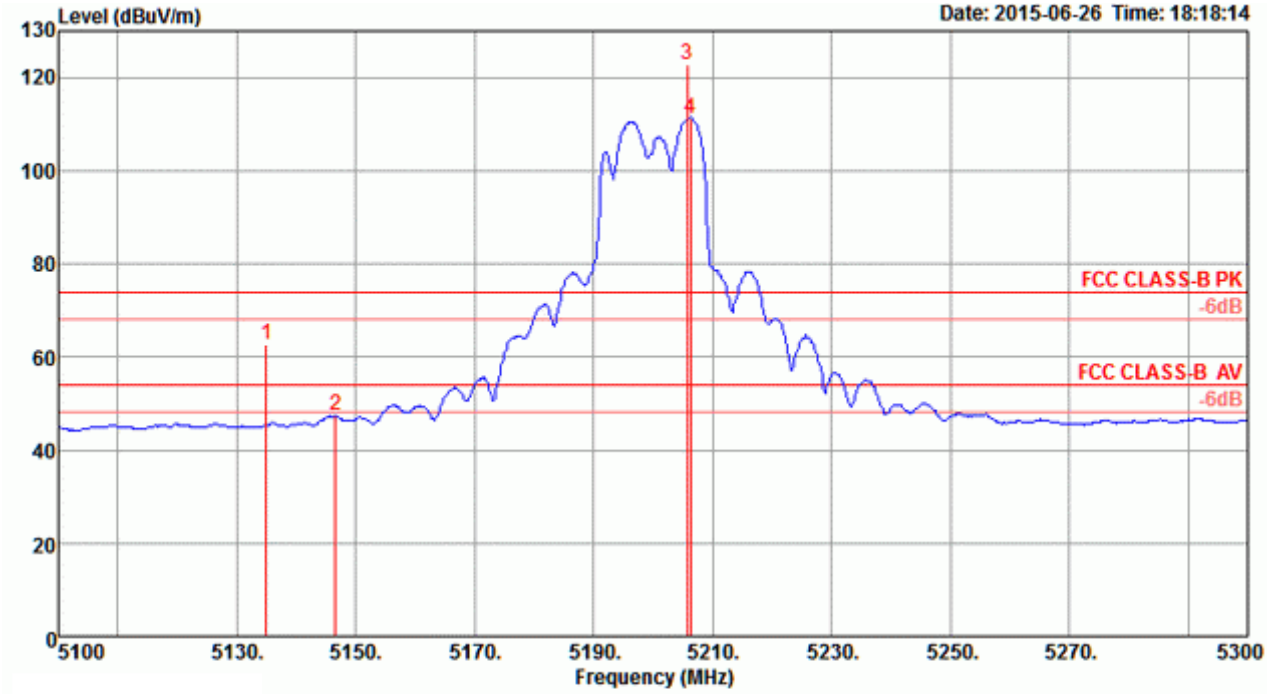
Channel 36



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5150.00	68.79	74.00	-5.21	65.73	4.26	33.27	34.47	105	186	Peak	HORIZONTAL
2	5150.00	52.80	54.00	-1.20	49.74	4.26	33.27	34.47	105	186	Average	HORIZONTAL
3	5175.95	110.77			107.64	4.27	33.33	34.47	105	186	Average	HORIZONTAL
4	5176.53	121.71			118.58	4.27	33.33	34.47	105	186	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

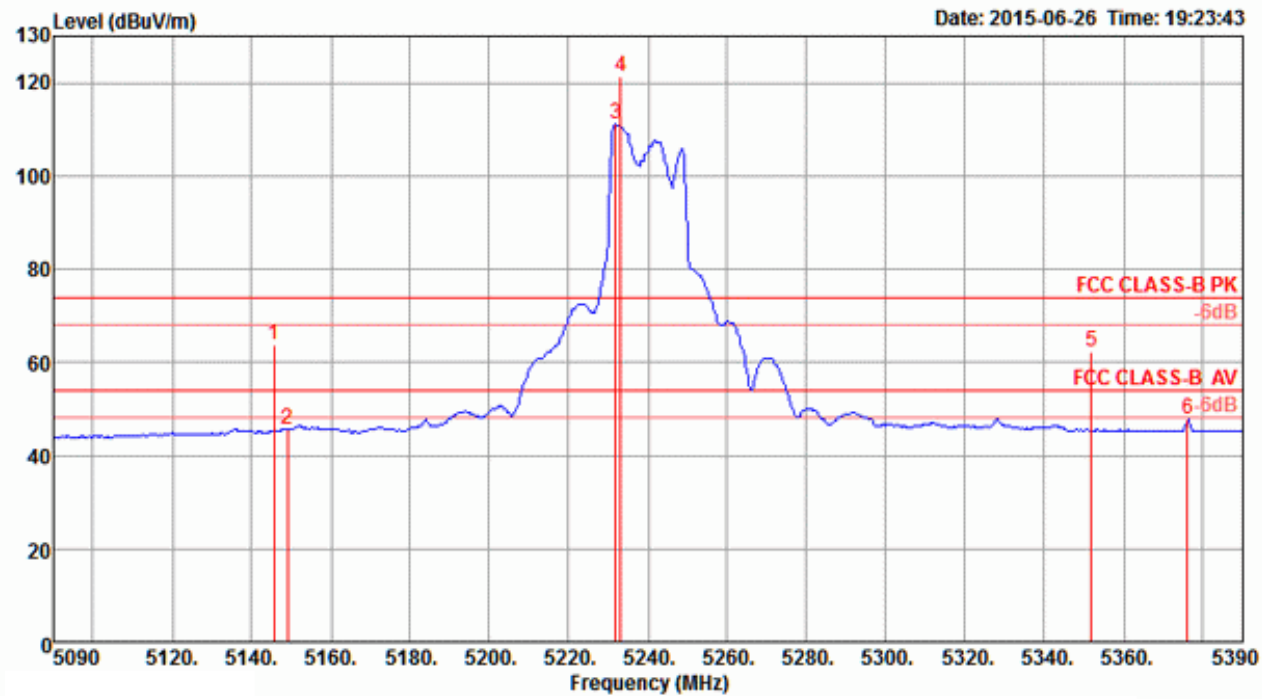
Channel 40



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5134.95	62.75	74.00	-11.25	59.73	4.25	33.24	34.47	108	183	Peak	HORIZONTAL
2	5146.53	47.31	54.00	-6.69	44.25	4.26	33.27	34.47	108	183	Average	HORIZONTAL
3	5205.79	122.58			119.41	4.28	33.36	34.47	108	183	Peak	HORIZONTAL
4	5206.37	111.33			108.16	4.28	33.36	34.47	108	183	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

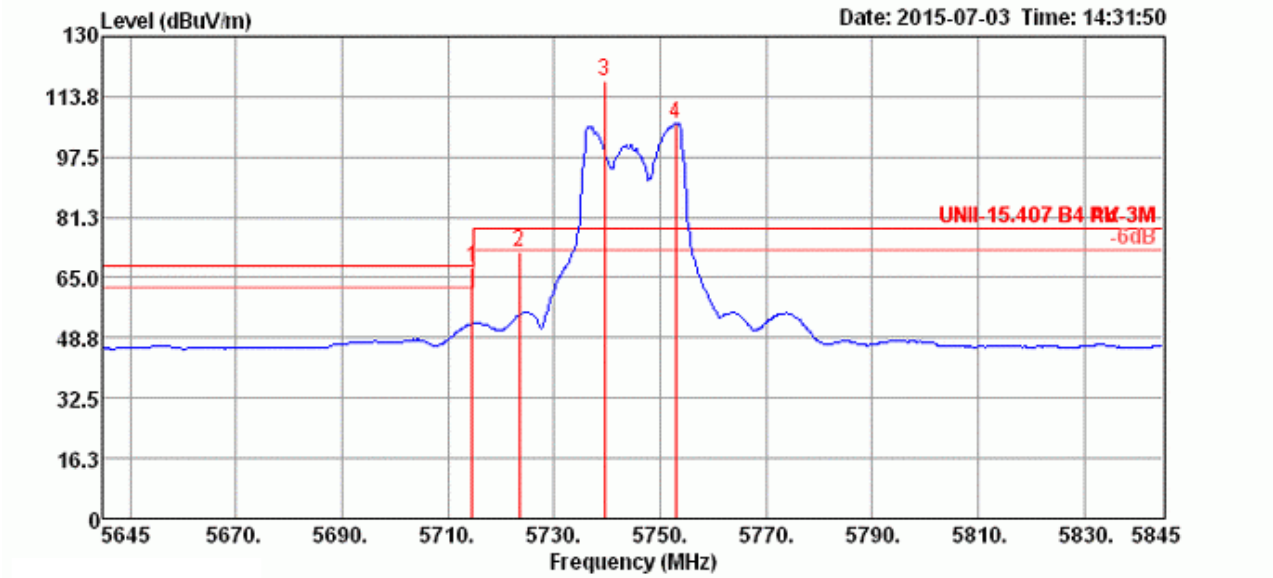


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5145.66	63.56	74.00	-10.44	60.50	4.26	33.27	34.47	111	196	Peak	HORIZONTAL
2	5149.13	45.69	54.00	-8.31	42.63	4.26	33.27	34.47	111	196	Average	HORIZONTAL
3	5231.75	111.00			107.75	4.30	33.42	34.47	111	196	Average	HORIZONTAL
4	5233.05	121.30			118.05	4.30	33.42	34.47	111	196	Peak	HORIZONTAL
5	5351.74	62.15	74.00	-11.85	58.64	4.35	33.63	34.47	111	196	Peak	HORIZONTAL
6	5376.05	47.78	54.00	-6.22	44.23	4.36	33.66	34.47	111	196	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 4 + Chain 5 + Chain 6

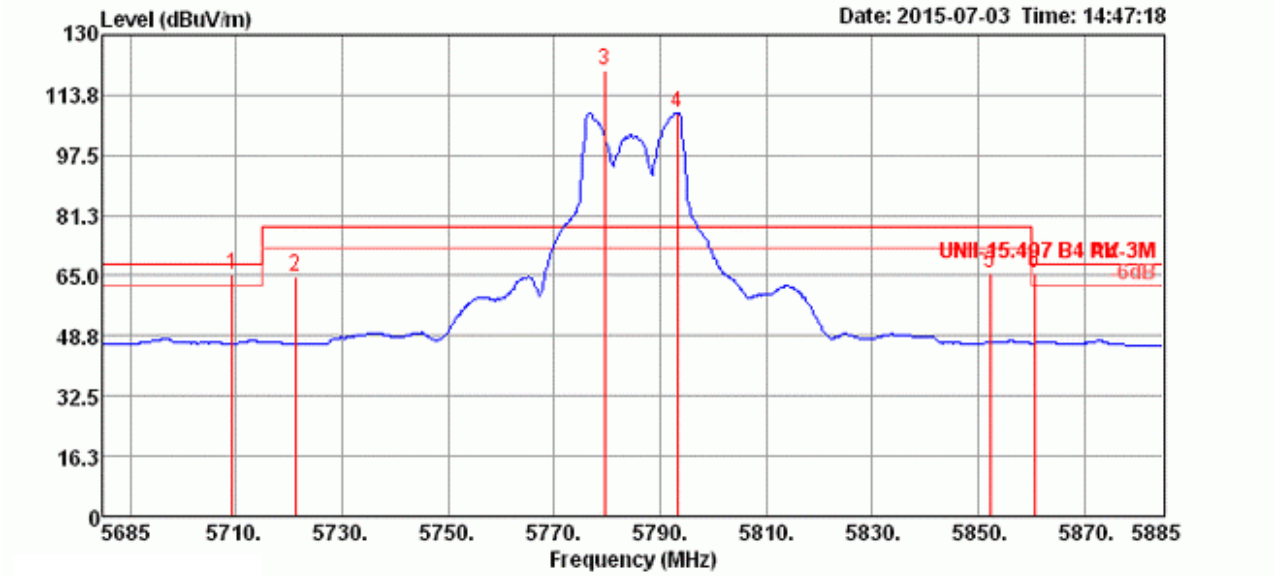
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5714.55	67.68	68.20	-0.52	59.56	6.83	34.42	33.13	Peak	180	293	HORIZONTAL
2	5723.53	71.91	78.20	-6.29	63.78	6.83	34.43	33.13	Peak	180	293	HORIZONTAL
3	5739.55	118.18			110.02	6.86	34.44	33.14	Peak	180	293	HORIZONTAL
4	5753.01	106.56			98.38	6.86	34.46	33.14	Average	180	293	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

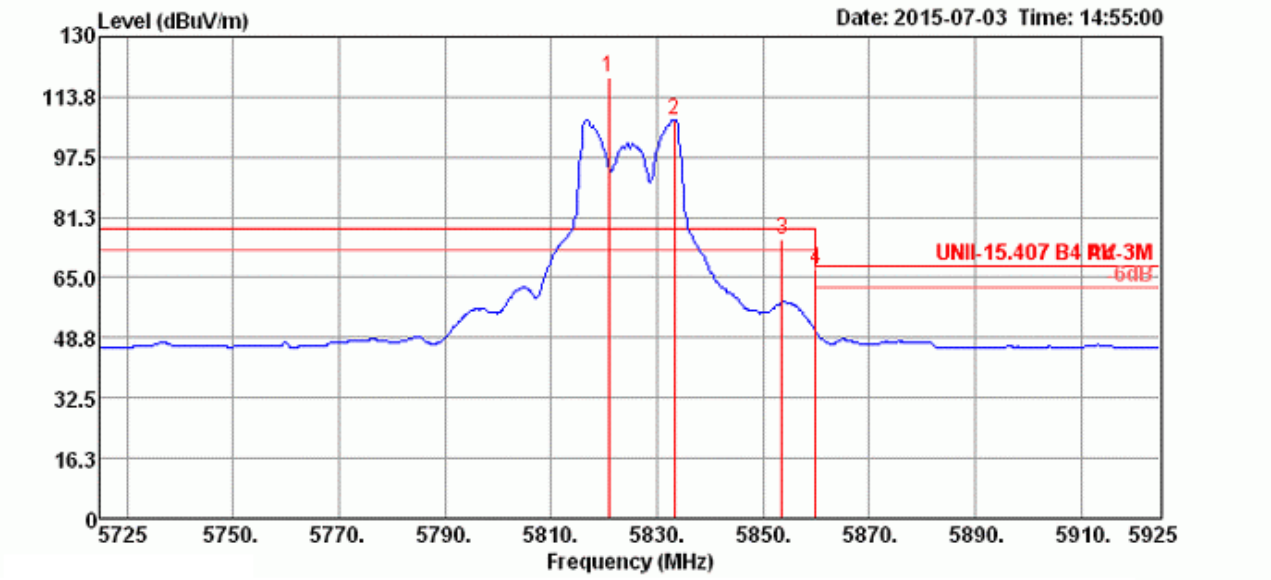
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5709.36	65.25	68.20	-2.95	57.13	6.83	34.42	33.13	Peak	177	291	HORIZONTAL
2	5721.22	64.97	78.20	-13.23	56.84	6.83	34.43	33.13	Peak	177	291	HORIZONTAL
3	5779.55	120.18			111.98	6.88	34.47	33.15	Peak	177	291	HORIZONTAL
4	5793.33	108.93			100.71	6.90	34.48	33.16	Average	177	291	HORIZONTAL
5	5852.31	65.91	78.20	-12.29	57.62	6.95	34.51	33.17	Peak	177	291	HORIZONTAL
6	5860.64	65.91	68.20	-2.29	57.60	6.97	34.52	33.18	Peak	177	291	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

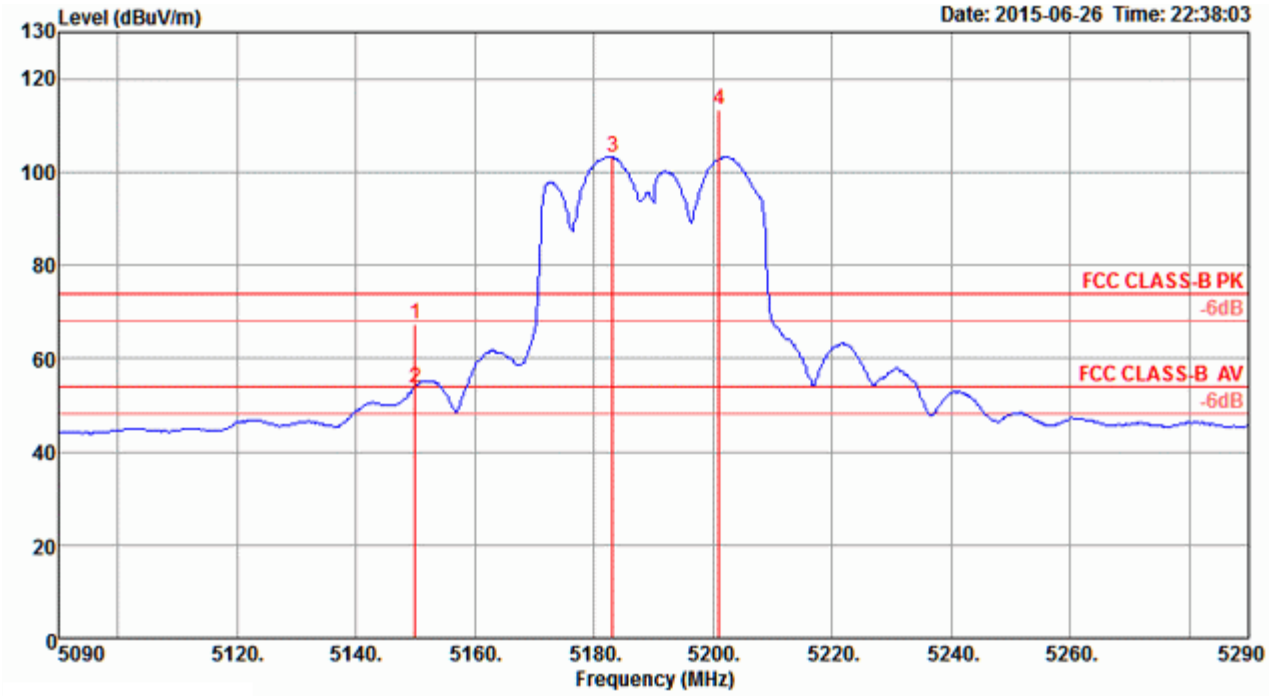


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5820.83	118.88			110.62	6.92	34.50	33.16	Peak	175	288	HORIZONTAL
2	5833.33	107.56			99.28	6.95	34.50	33.17	Average	175	288	HORIZONTAL
3	5853.53	75.39	78.20	-2.81	67.09	6.95	34.52	33.17	Peak	175	288	HORIZONTAL
4	5860.00	67.31	68.20	-0.89	59.00	6.97	34.52	33.18	Peak	175	288	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 4 + Chain 5 + Chain 6

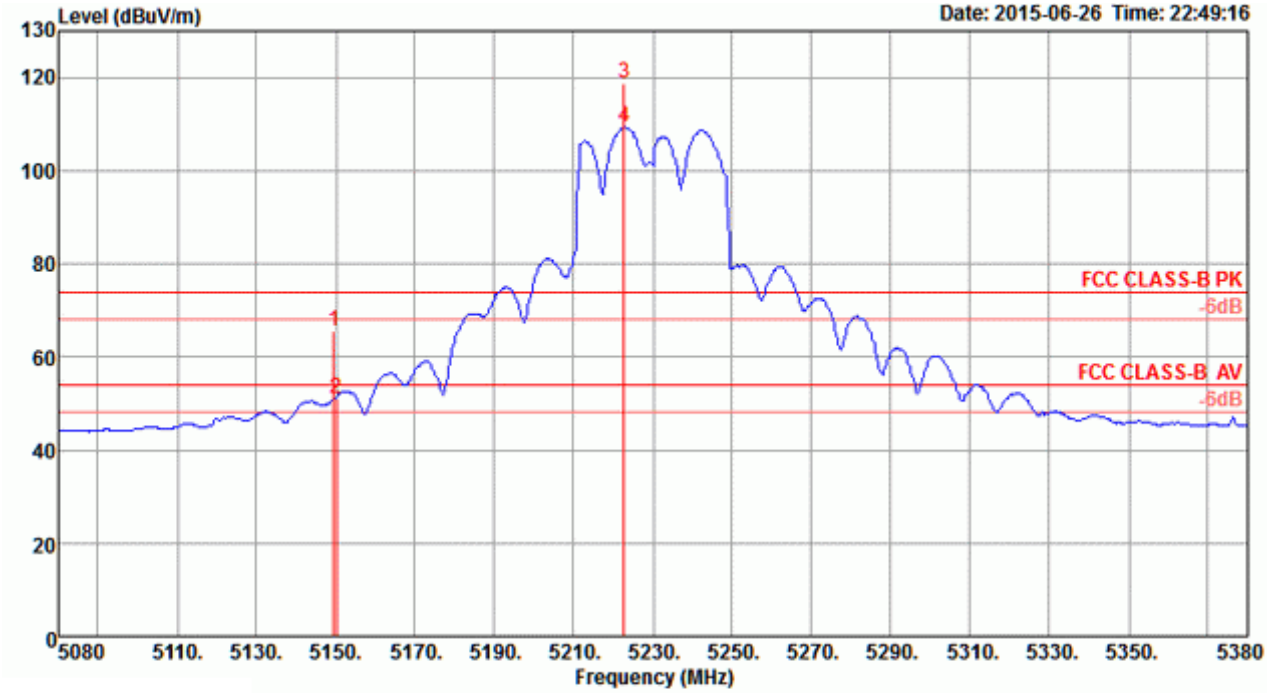
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5150.00	67.44	74.00	-6.56	64.38	4.26	33.27	34.47	108	187	Peak	HORIZONTAL
2	5150.00	53.68	54.00	-0.32	50.62	4.26	33.27	34.47	108	187	Average	HORIZONTAL
3	5183.05	103.21			100.08	4.27	33.33	34.47	108	187	Average	HORIZONTAL
4	5201.00	113.26			110.09	4.28	33.36	34.47	108	187	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

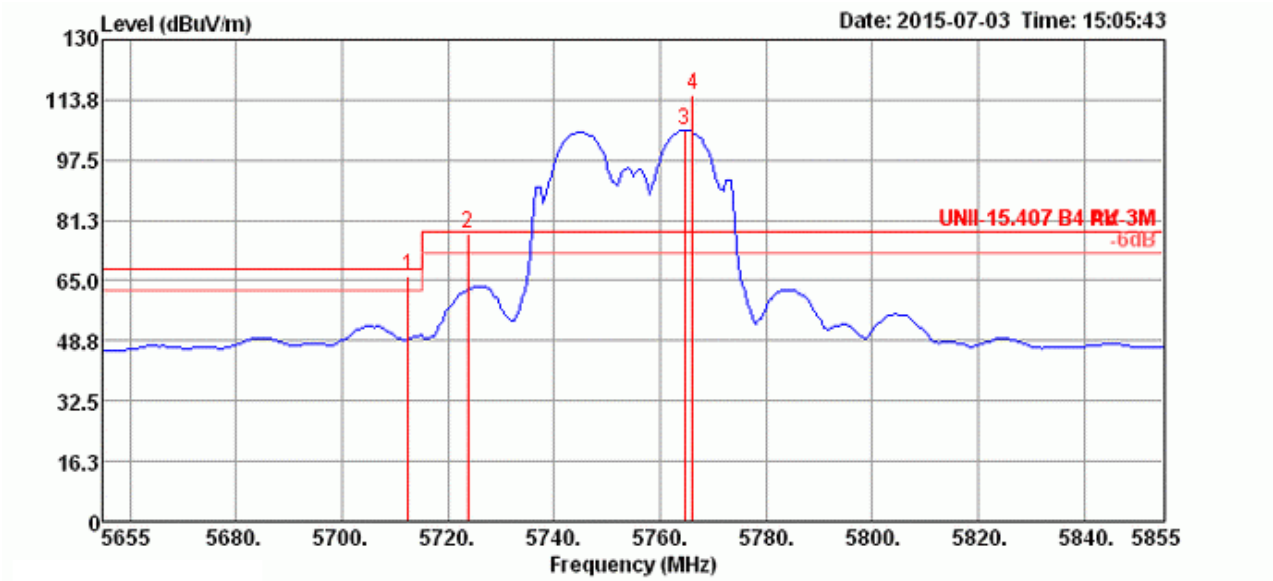


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5149.57	65.61	74.00	-8.39	62.55	4.26	33.27	34.47	112	171	Peak	HORIZONTAL
2	5150.00	51.08	54.00	-2.92	48.02	4.26	33.27	34.47	112	171	Average	HORIZONTAL
3	5222.62	118.79			115.58	4.29	33.39	34.47	112	171	Peak	HORIZONTAL
4	5222.62	109.21			106.00	4.29	33.39	34.47	112	171	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40, CH 151, 159 / Chain 4 + Chain 5 + Chain 6

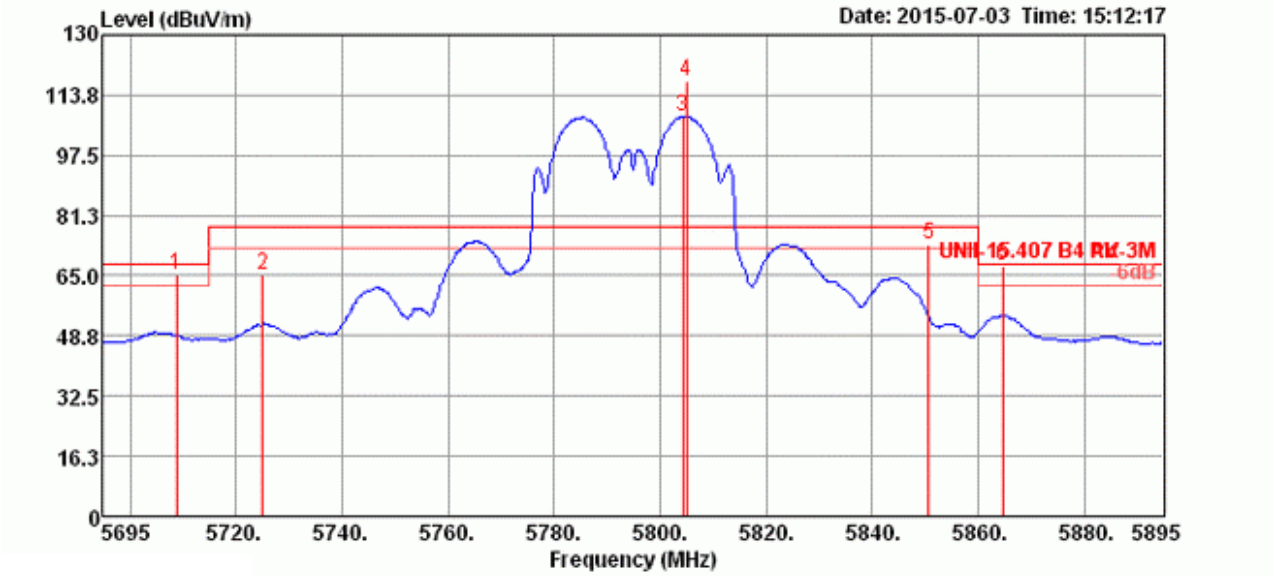
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5712.53	66.37	68.20	-1.83	58.25	6.83	34.42	33.13	Peak	171	286	HORIZONTAL
2	5723.75	77.86	78.20	-0.34	69.73	6.83	34.43	33.13	Peak	171	286	HORIZONTAL
3	5764.62	105.63			97.44	6.88	34.46	33.15	Average	171	286	HORIZONTAL
4	5766.22	115.04			106.85	6.88	34.46	33.15	Peak	171	286	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

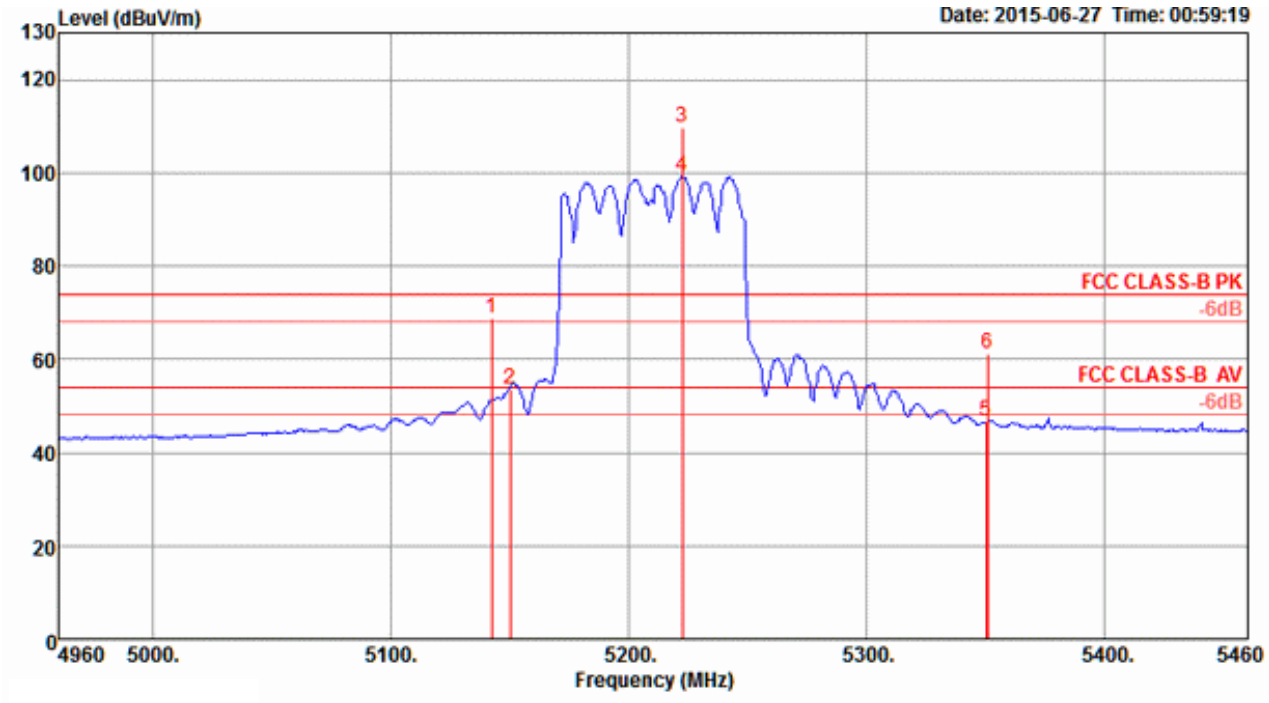


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5708.78	65.23	68.20	-2.97	57.11	6.83	34.42	33.13	Peak	175	289	HORIZONTAL
2	5725.00	65.20	78.20	-13.00	57.07	6.83	34.43	33.13	Peak	175	289	HORIZONTAL
3	5804.30	107.94			99.71	6.90	34.49	33.16	Average	175	289	HORIZONTAL
4	5804.94	117.51			109.28	6.90	34.49	33.16	Peak	175	289	HORIZONTAL
5	5850.77	73.16	78.20	-5.04	64.87	6.95	34.51	33.17	Peak	175	289	HORIZONTAL
6	5864.55	67.83	68.20	-0.37	59.52	6.97	34.52	33.18	Peak	175	289	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 4 + Chain 5 + Chain 6

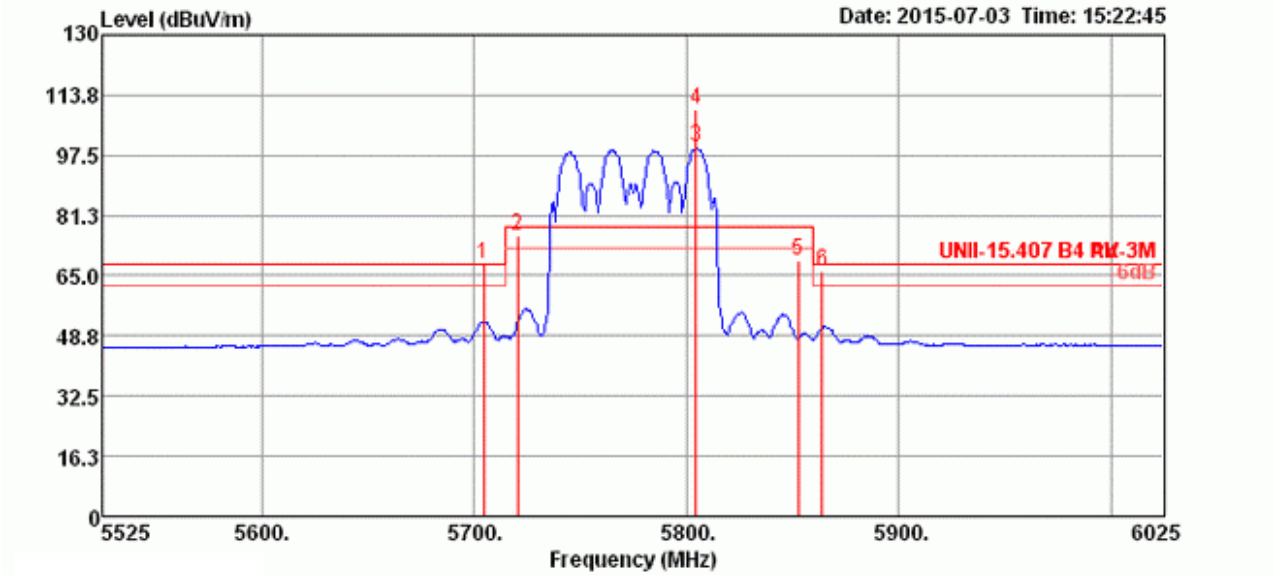
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5142.04	68.73	74.00	-5.27	65.67	4.26	33.27	34.47	115	186	Peak	HORIZONTAL
2	5150.00	53.77	54.00	-0.23	50.71	4.26	33.27	34.47	115	186	Average	HORIZONTAL
3	5222.30	109.66			106.45	4.29	33.39	34.47	115	186	Peak	HORIZONTAL
4	5222.30	99.25			96.04	4.29	33.39	34.47	115	186	Average	HORIZONTAL
5	5350.00	46.83	54.00	-7.17	43.32	4.35	33.63	34.47	115	186	Average	HORIZONTAL
6	5350.72	61.21	74.00	-12.79	57.70	4.35	33.63	34.47	115	186	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5704.49	68.15	68.20	-0.05	60.04	6.81	34.42	33.12	Peak	169	285	HORIZONTAL
2	5720.51	75.67	78.20	-2.53	67.54	6.83	34.43	33.13	Peak	169	285	HORIZONTAL
3	5804.65	99.59			91.36	6.90	34.49	33.16	Average	169	285	HORIZONTAL
4	5804.65	109.63			101.40	6.90	34.49	33.16	Peak	169	285	HORIZONTAL
5	5852.72	69.08	78.20	-9.12	60.79	6.95	34.51	33.17	Peak	169	285	HORIZONTAL
6	5863.94	66.37	68.20	-1.83	58.06	6.97	34.52	33.18	Peak	169	285	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

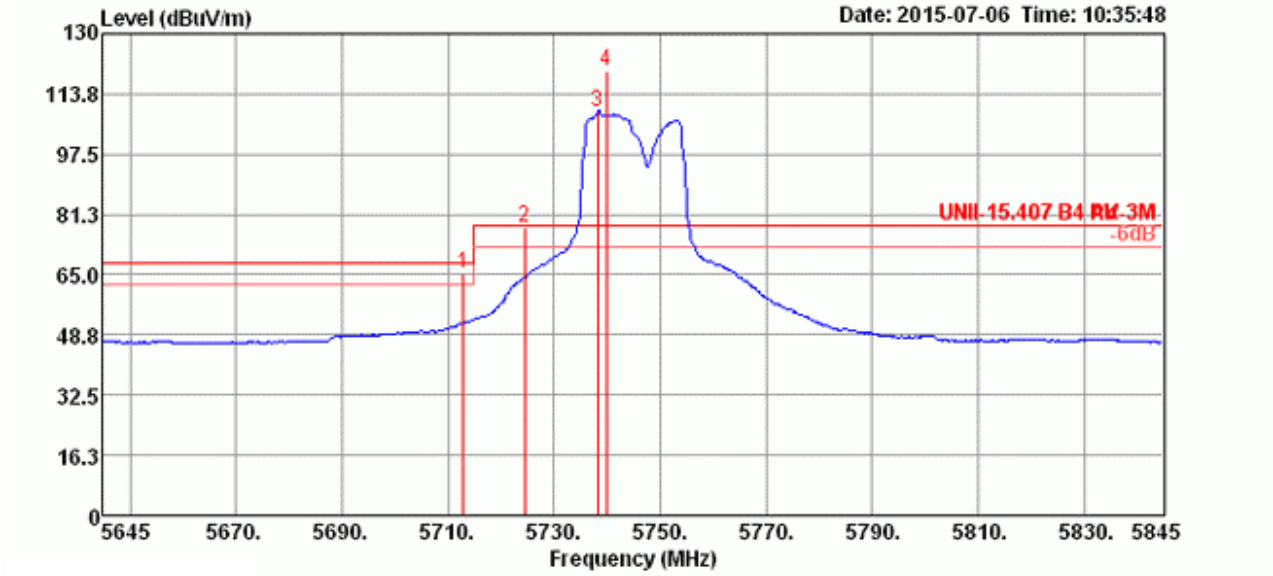
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Radio 2 Non-beamforming Mode>: 3TX, 2S

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 CH 149, 157, 165 / Chain 4 + Chain 5 + Chain 6

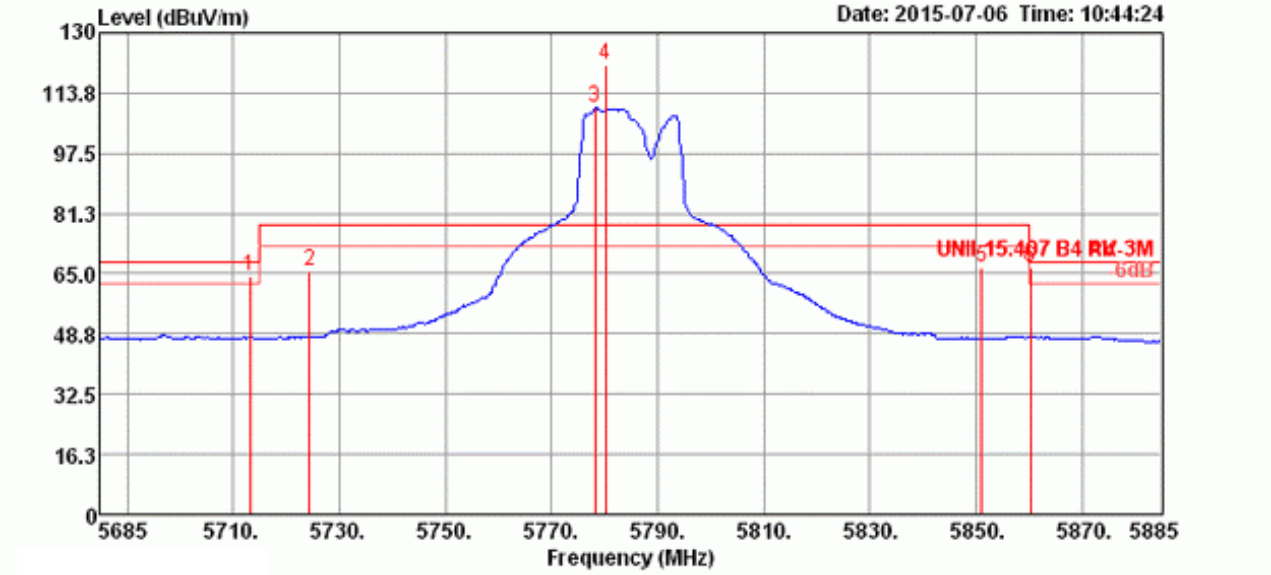
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5712.95	65.38	68.20	-2.82	57.26	6.83	34.42	33.13	Peak	185	296	HORIZONTAL
2	5724.49	77.48	78.20	-0.72	69.35	6.83	34.43	33.13	Peak	185	296	HORIZONTAL
3	5738.27	109.05			100.89	6.86	34.44	33.14	Average	185	296	HORIZONTAL
4	5739.87	120.15			111.99	6.86	34.44	33.14	Peak	185	296	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

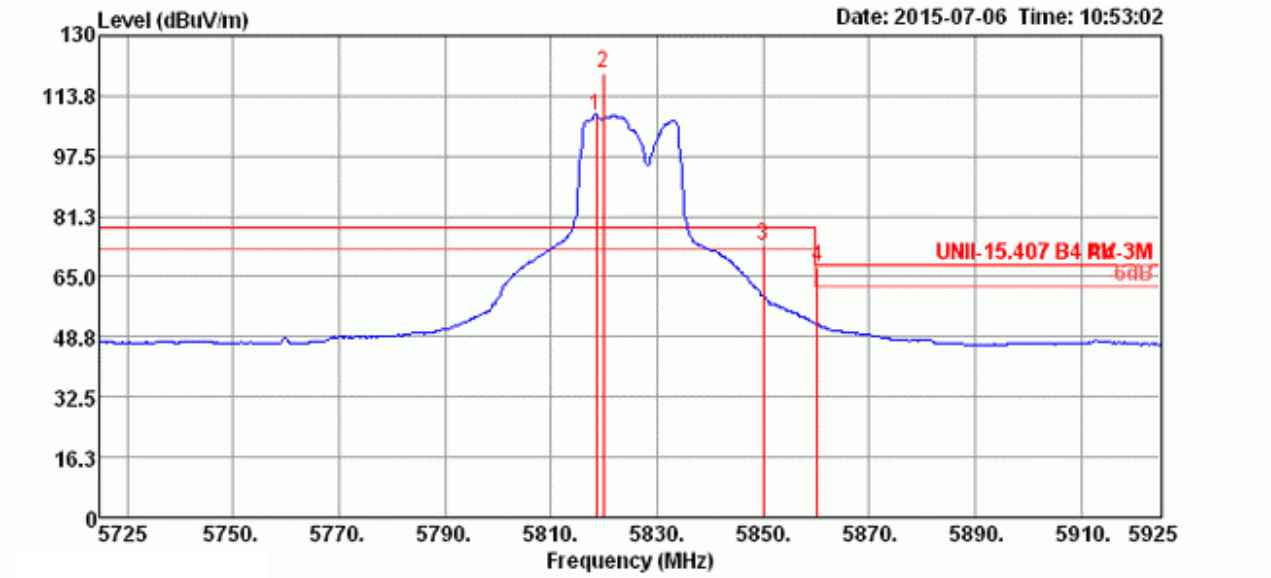
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5713.21	64.21	68.20	-3.99	56.09	6.83	34.42	33.13	Peak	164	296	HORIZONTAL
2	5724.42	65.93	78.20	-12.27	57.80	6.83	34.43	33.13	Peak	164	296	HORIZONTAL
3	5778.27	109.85			101.65	6.88	34.47	33.15	Average	164	296	HORIZONTAL
4	5780.19	121.22			113.02	6.88	34.47	33.15	Peak	164	296	HORIZONTAL
5	5851.03	66.86	78.20	-11.34	58.57	6.95	34.51	33.17	Peak	164	296	HORIZONTAL
6	5860.32	66.52	68.20	-1.68	58.21	6.97	34.52	33.18	Peak	164	296	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

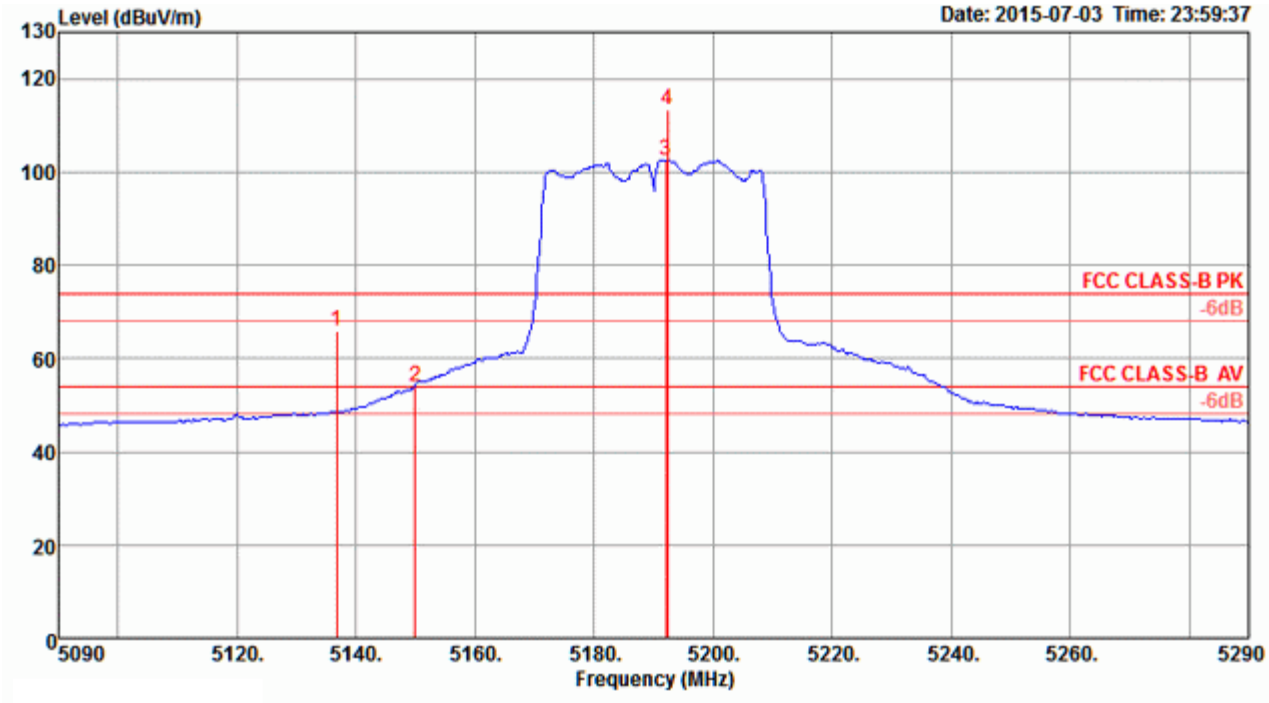


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5818.59	108.53			100.28	6.92	34.49	33.16	Average	181	301	HORIZONTAL
2	5819.87	119.90			111.64	6.92	34.50	33.16	Peak	181	301	HORIZONTAL
3	5850.00	73.45	78.20	-4.75	65.16	6.95	34.51	33.17	Peak	181	301	HORIZONTAL
4	5860.26	67.62	68.20	-0.58	59.31	6.97	34.52	33.18	Peak	181	301	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 CH 38, 46 / Chain 4 + Chain 5 + Chain 6

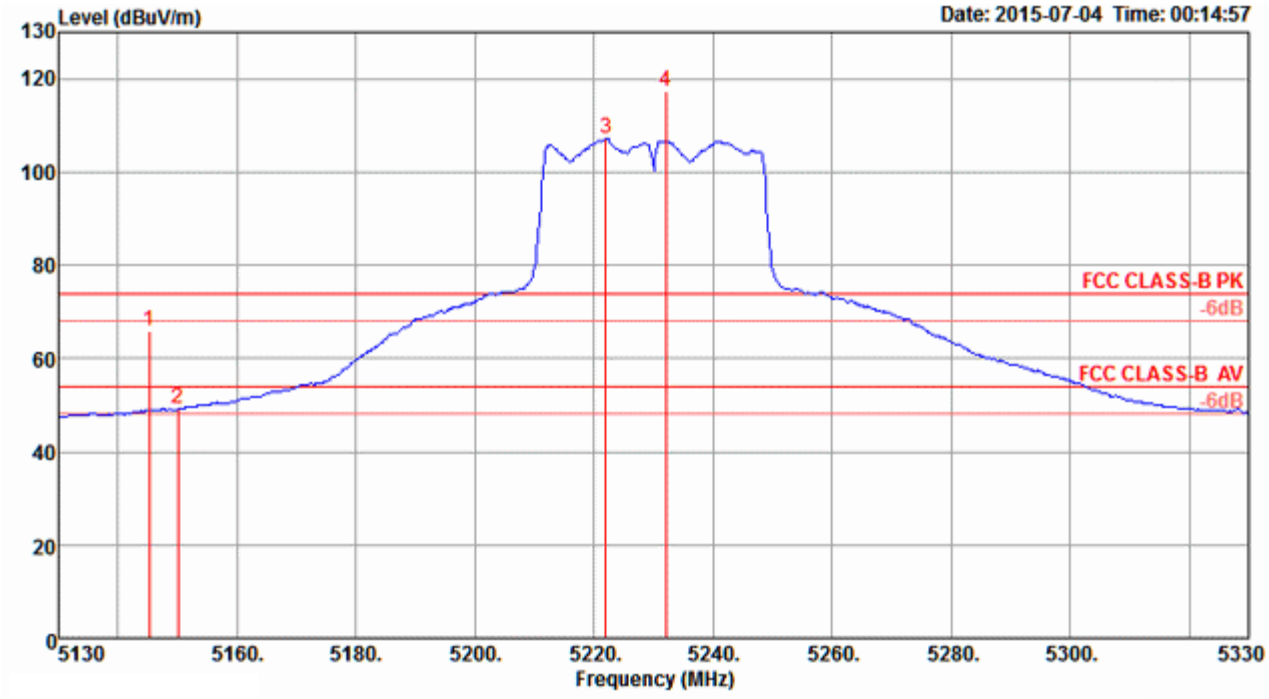
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5136.80	65.94	74.00	-8.06	62.92	4.25	33.24	34.47	124	184	Peak	HORIZONTAL
2	5150.00	53.85	54.00	-0.15	50.79	4.26	33.27	34.47	124	184	Average	HORIZONTAL
3	5192.00	102.58			99.41	4.28	33.36	34.47	124	184	Average	HORIZONTAL
4	5192.40	113.37			110.20	4.28	33.36	34.47	124	184	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

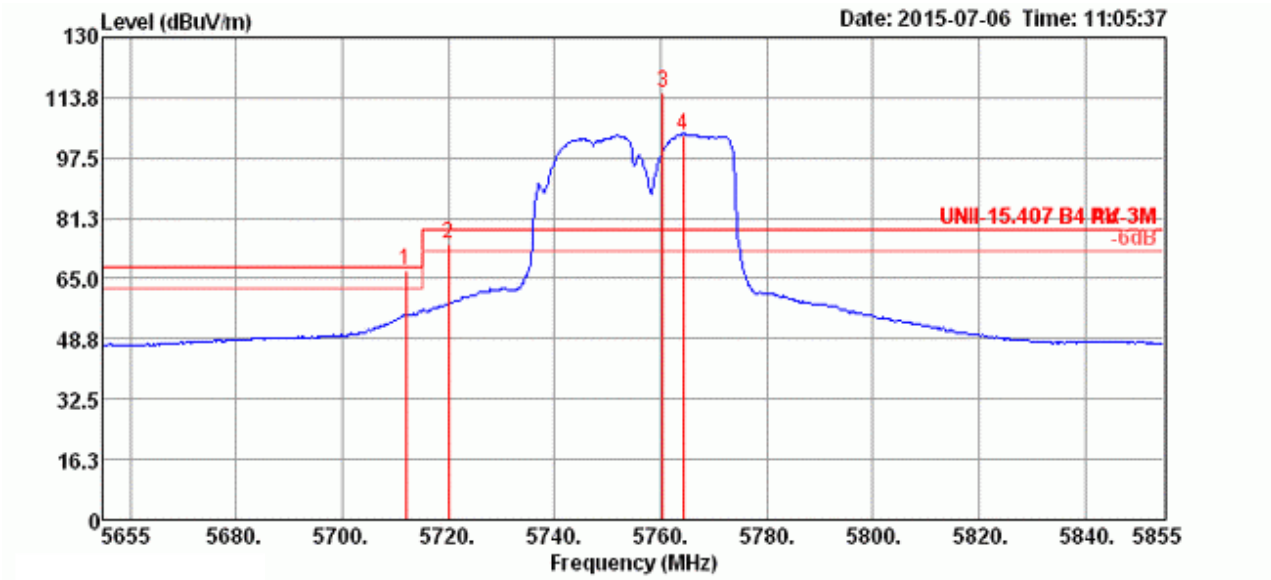


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5145.20	65.74	74.00	-8.26	62.68	4.26	33.27	34.47	118	170	Peak	HORIZONTAL
2	5150.00	49.07	54.00	-4.93	46.01	4.26	33.27	34.47	118	170	Average	HORIZONTAL
3	5222.00	107.18			103.97	4.29	33.39	34.47	118	170	Average	HORIZONTAL
4	5232.00	117.34			114.09	4.30	33.42	34.47	118	170	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 CH 151, 159 / Chain 4 + Chain 5 + Chain 6

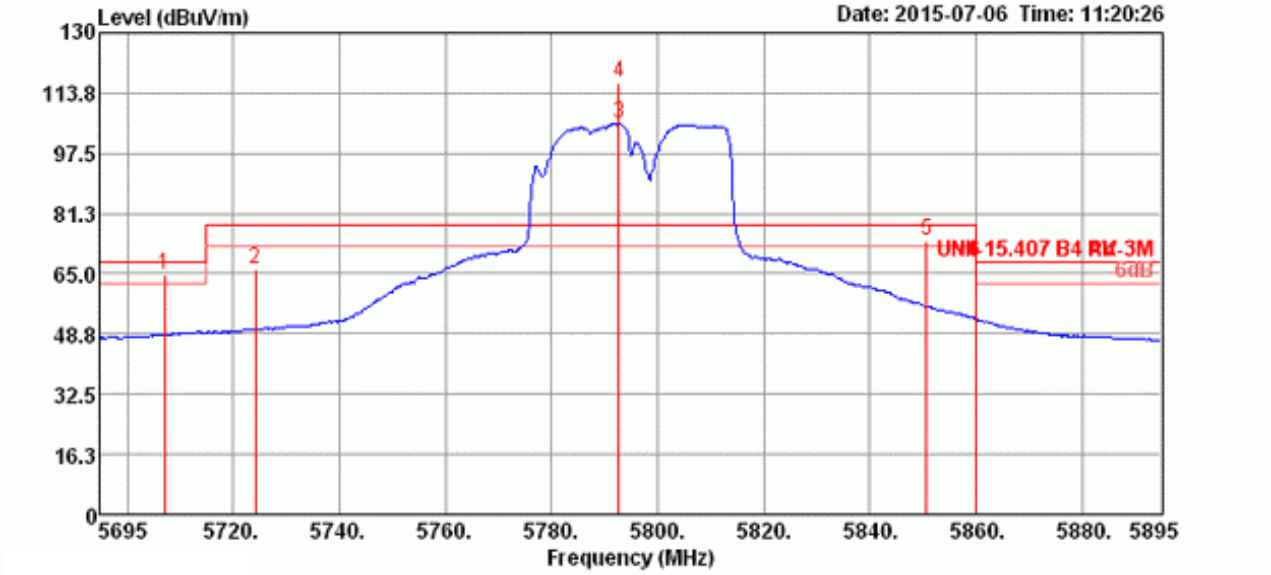
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5712.05	67.20	68.20	-1.00	59.08	6.83	34.42	33.13	Peak	174	297	HORIZONTAL
2	5720.06	74.27	78.20	-3.93	66.14	6.83	34.43	33.13	Peak	174	297	HORIZONTAL
3	5760.45	115.26			107.07	6.88	34.46	33.15	Peak	174	297	HORIZONTAL
4	5764.30	103.84			95.65	6.88	34.46	33.15	Average	174	297	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

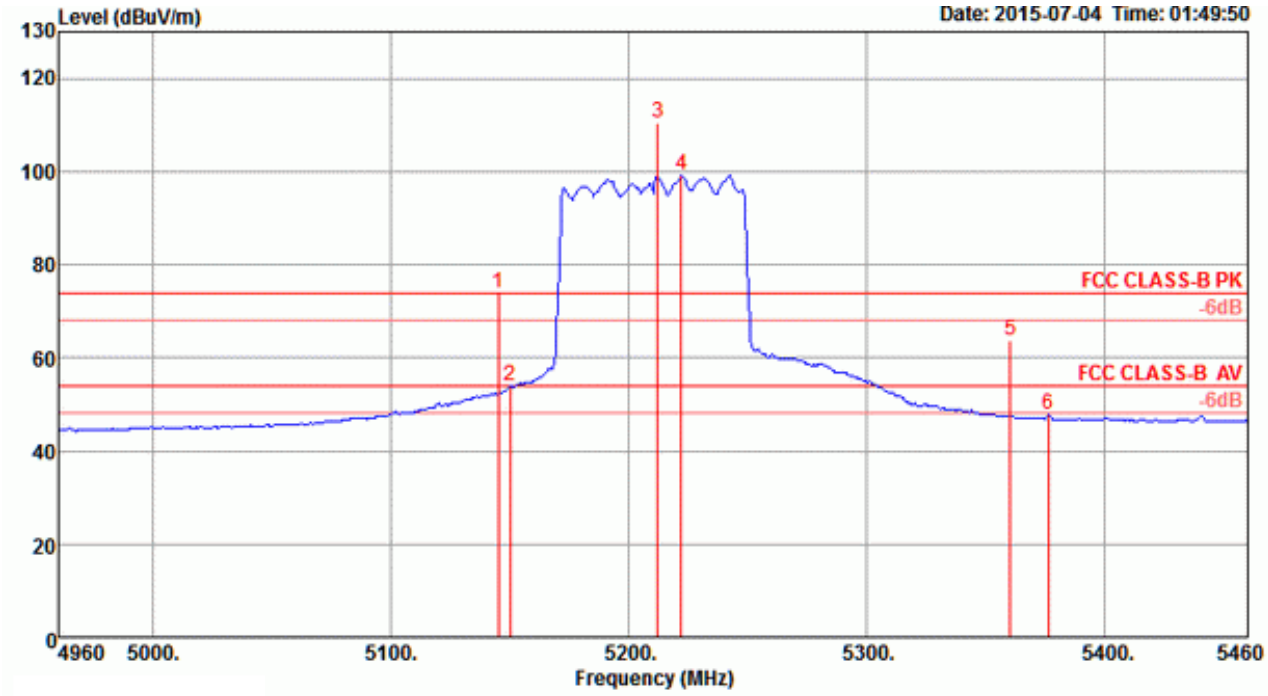


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5707.18	64.91	68.20	-3.29	56.79	6.83	34.42	33.13	Peak	174	291	HORIZONTAL
2	5724.17	66.28	78.20	-11.92	58.15	6.83	34.43	33.13	Peak	174	291	HORIZONTAL
3	5792.76	105.41			97.19	6.90	34.48	33.16	Average	174	291	HORIZONTAL
4	5792.76	116.63			108.41	6.90	34.48	33.16	Peak	174	291	HORIZONTAL
5	5850.77	73.85	78.20	-4.35	65.56	6.95	34.51	33.17	Peak	174	291	HORIZONTAL
6	5860.00	68.08	68.20	-0.12	59.77	6.97	34.52	33.18	Peak	174	291	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 CH 42, 155 / Chain 4 + Chain 5 + Chain 6

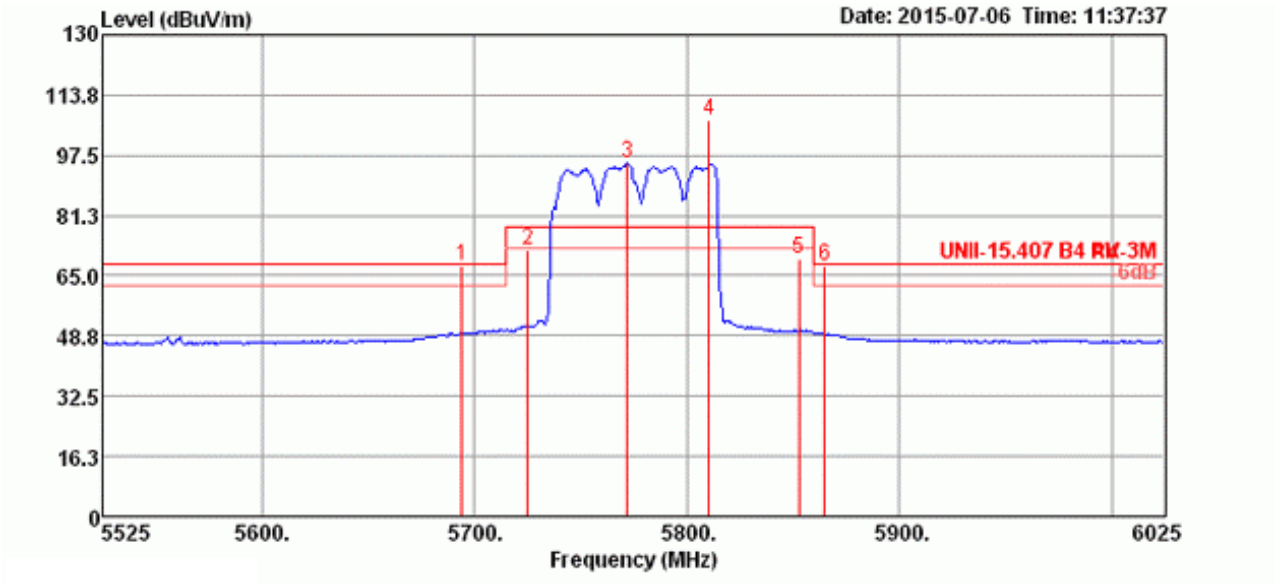
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5145.00	73.77	74.00	-0.23	70.71	4.26	33.27	34.47	119	171	Peak	HORIZONTAL
2	5150.00	53.82	54.00	-0.18	50.76	4.26	33.27	34.47	119	171	Average	HORIZONTAL
3	5212.00	110.63			107.42	4.29	33.39	34.47	119	171	Peak	HORIZONTAL
4	5222.00	99.14			95.93	4.29	33.39	34.47	119	171	Average	HORIZONTAL
5	5360.00	63.89	74.00	-10.11	60.38	4.35	33.63	34.47	119	171	Peak	HORIZONTAL
6	5376.00	47.93	54.00	-6.07	44.38	4.36	33.66	34.47	119	171	Average	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5694.07	67.68	68.20	-0.52	59.58	6.81	34.41	33.12	Peak	169	296	HORIZONTAL
2	5725.00	72.10	78.20	-6.10	63.97	6.83	34.43	33.13	Peak	169	296	HORIZONTAL
3	5771.80	95.26			87.06	6.88	34.47	33.15	Average	169	296	HORIZONTAL
4	5810.26	107.07			98.82	6.92	34.49	33.16	Peak	169	296	HORIZONTAL
5	5852.72	69.41	78.20	-8.79	61.12	6.95	34.51	33.17	Peak	169	296	HORIZONTAL
6	5864.74	67.78	68.20	-0.42	59.47	6.97	34.52	33.18	Peak	169	296	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5775 MHz.

Note:

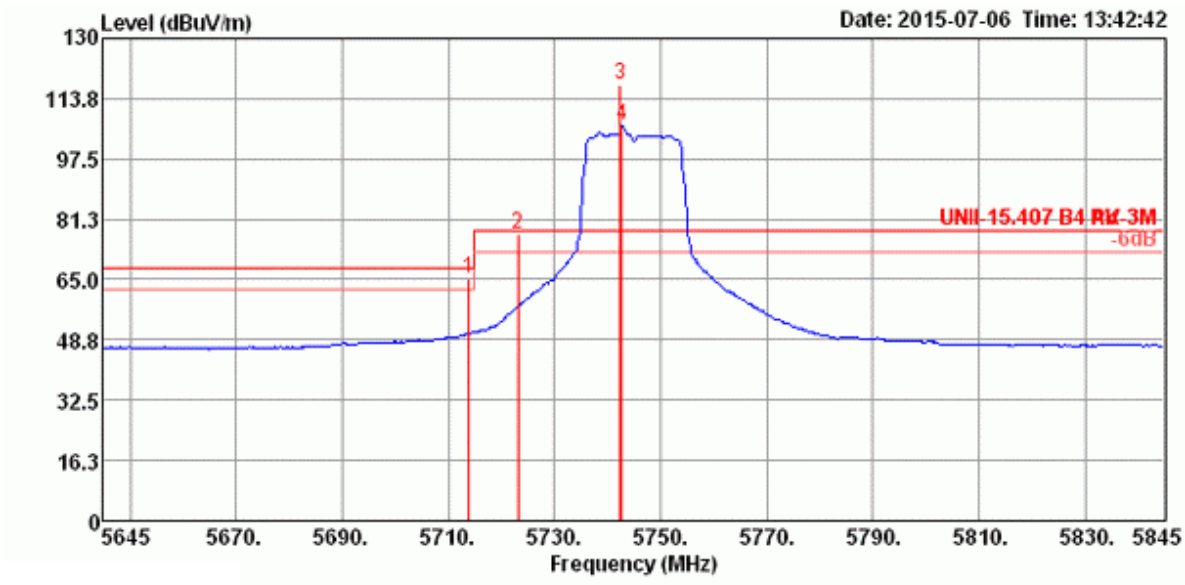
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Radio 2 Non-beamforming Mode>: 3TX, 3S

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss3 VHT20 CH 149, 157, 165 / Chain 4 + Chain 5 + Chain 6

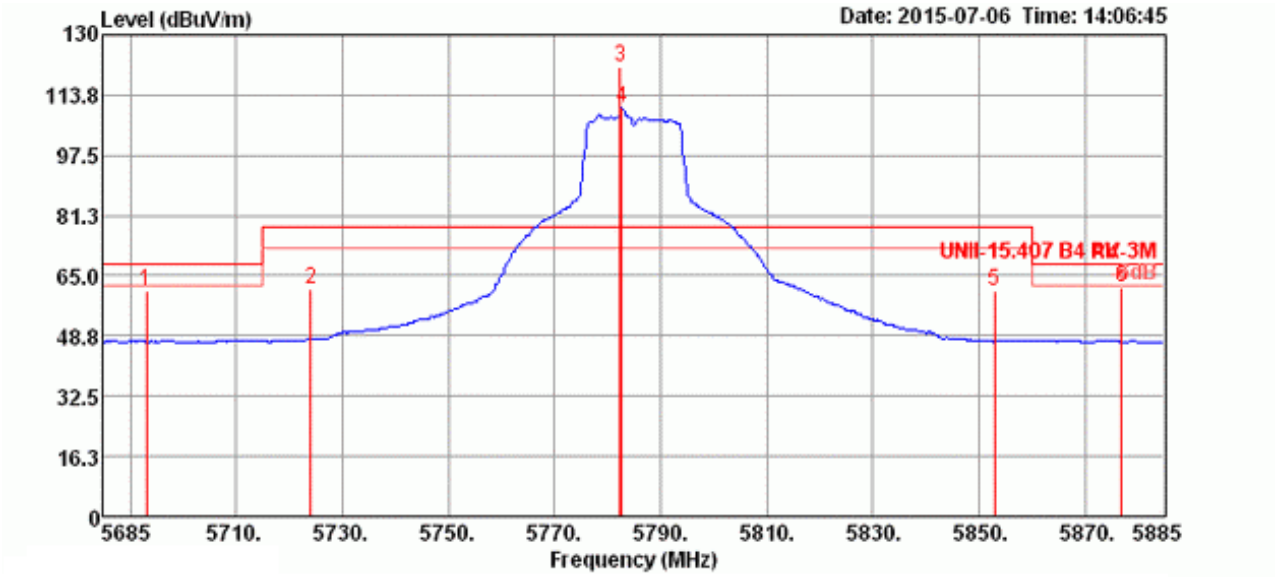
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5713.91	65.30	68.20	-2.90	57.18	6.83	34.42	33.13	Peak	182	59	HORIZONTAL
2	5723.21	77.11	78.20	-1.09	68.98	6.83	34.43	33.13	Peak	182	59	HORIZONTAL
3	5742.44	117.67			109.51	6.86	34.44	33.14	Peak	182	59	HORIZONTAL
4	5742.76	106.63			98.47	6.86	34.44	33.14	Average	182	59	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

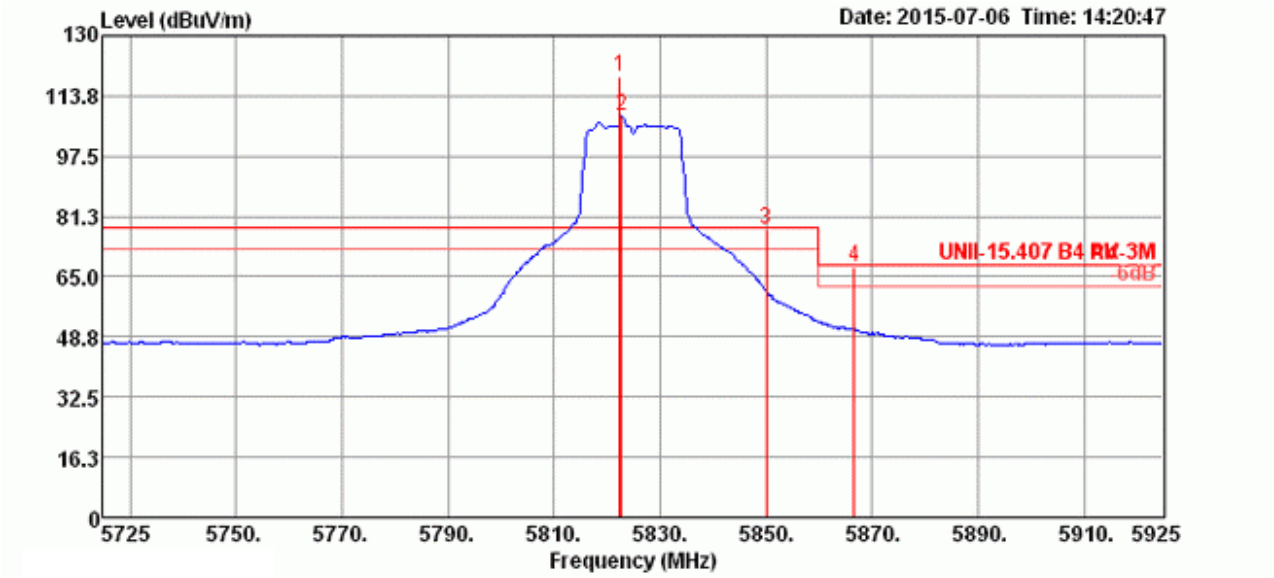
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5693.01	61.09	68.20	-7.11	52.99	6.81	34.41	33.12	Peak	176	63	HORIZONTAL
2	5724.10	61.60	78.20	-16.60	53.47	6.83	34.43	33.13	Peak	176	63	HORIZONTAL
3	5782.44	121.46			113.25	6.90	34.47	33.16	Peak	176	63	HORIZONTAL
4	5782.76	110.38			102.17	6.90	34.47	33.16	Average	176	63	HORIZONTAL
5	5852.95	61.15	78.20	-17.05	52.86	6.95	34.51	33.17	Peak	176	63	HORIZONTAL
6	5876.99	62.10	68.20	-6.10	53.78	6.97	34.53	33.18	Peak	176	63	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

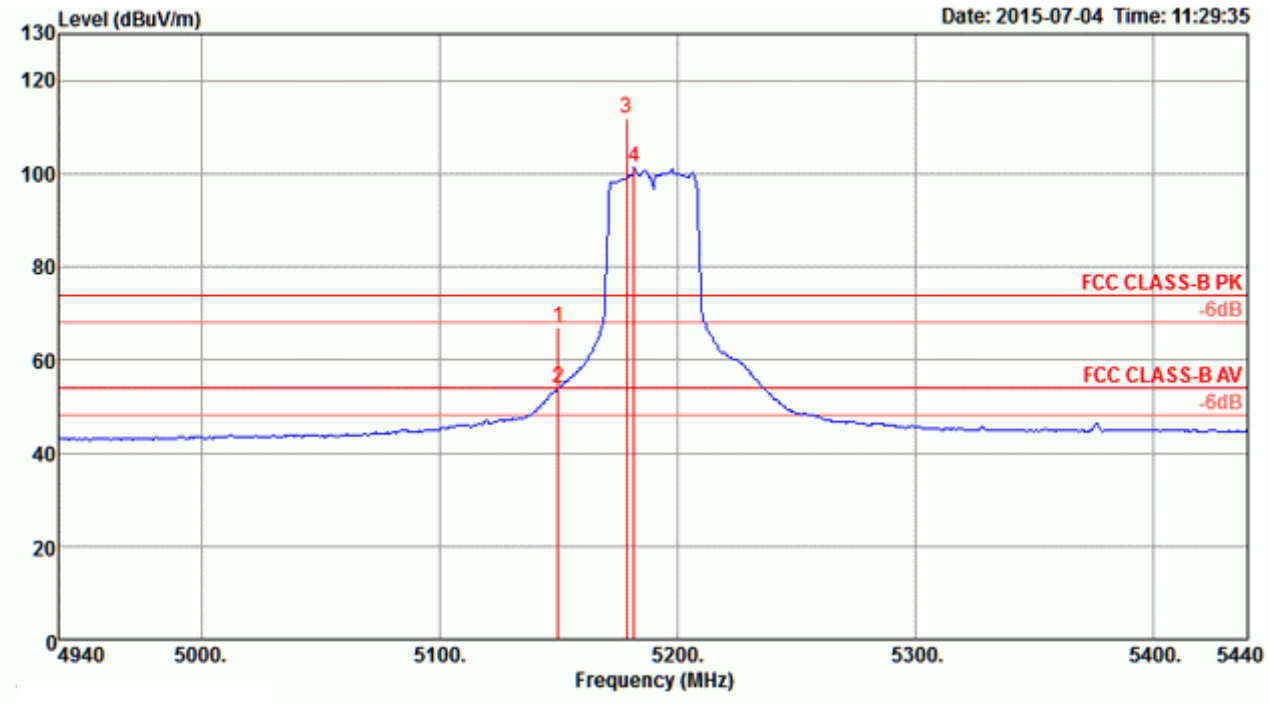


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5822.44	119.13			110.87	6.92	34.50	33.16	Peak	178	60	HORIZONTAL
2	5822.76	108.26			100.00	6.92	34.50	33.16	Average	178	60	HORIZONTAL
3	5850.00	77.60	78.20	-0.60	69.31	6.95	34.51	33.17	Peak	178	60	HORIZONTAL
4	5866.67	67.47	68.20	-0.73	59.16	6.97	34.52	33.18	Peak	178	60	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 38, 46 / Chain 4 + Chain 5 + Chain 6

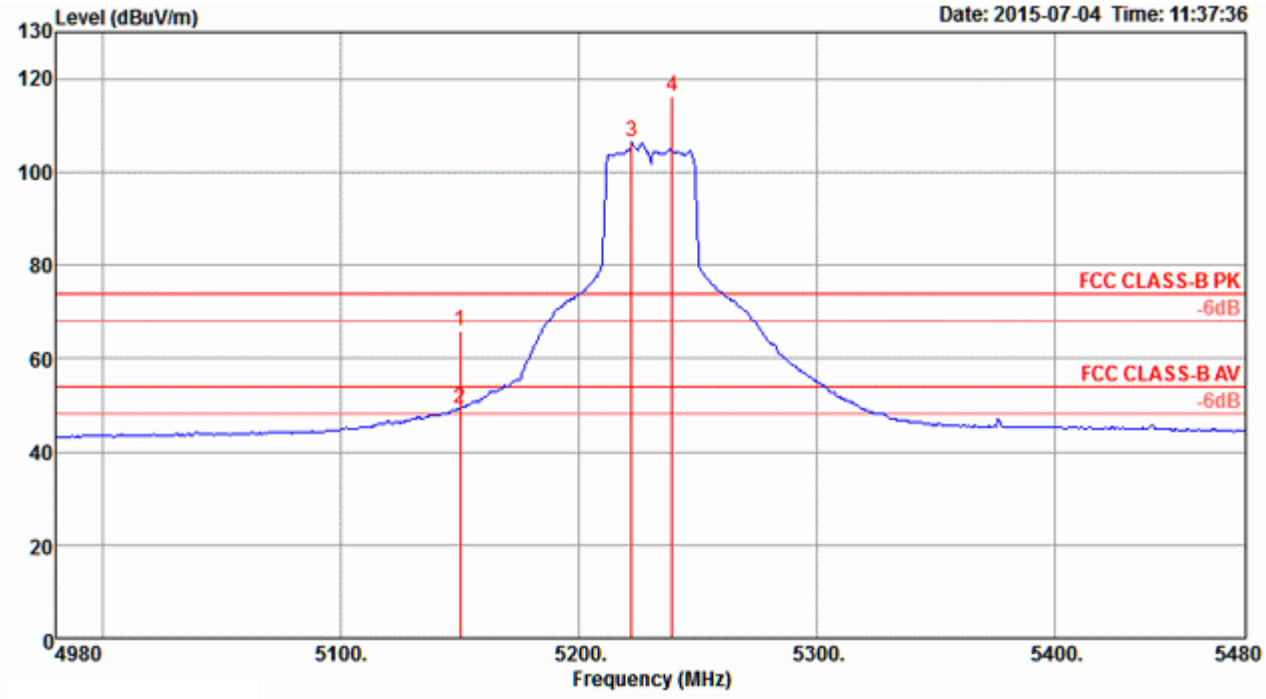
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5150.00	66.92	74.00	-7.08	63.86	4.26	33.27	34.47	121	176	Peak	HORIZONTAL
2	5150.00	53.80	54.00	-0.20	50.74	4.26	33.27	34.47	121	176	Average	HORIZONTAL
3	5179.00	111.85			108.72	4.27	33.33	34.47	121	176	Peak	HORIZONTAL
4	5182.00	101.50			98.37	4.27	33.33	34.47	121	176	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

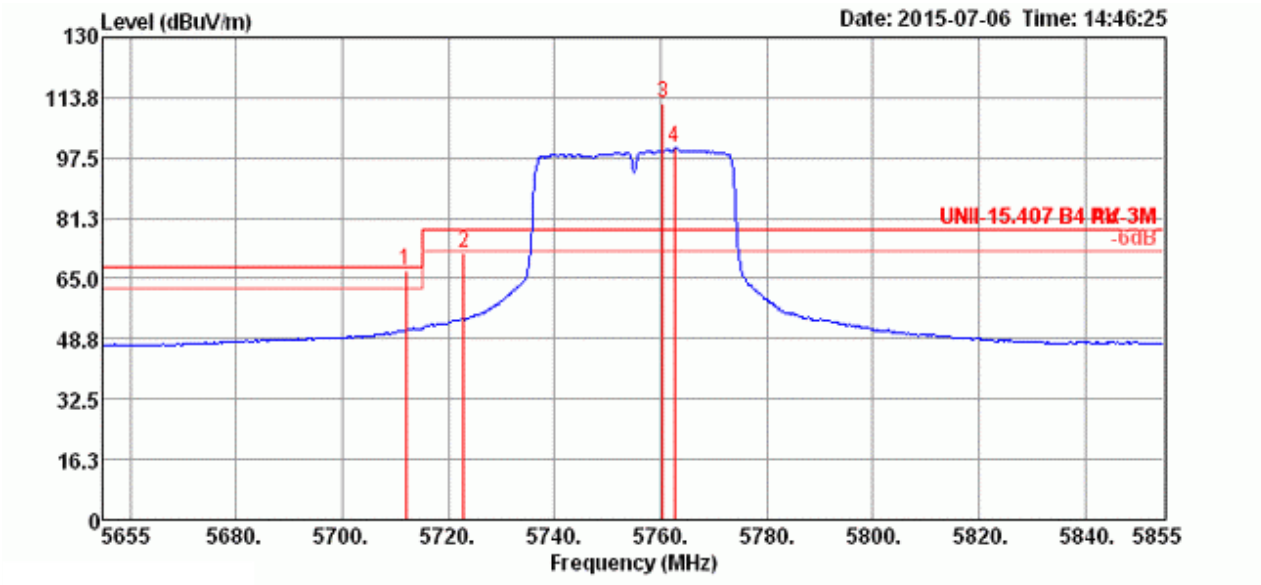


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5150.00	65.87	74.00	-8.13	62.81	4.26	33.27	34.47	116	173	Peak	HORIZONTAL
2	5150.00	49.21	54.00	-4.79	46.15	4.26	33.27	34.47	116	173	Average	HORIZONTAL
3	5222.00	106.54			103.33	4.29	33.39	34.47	116	173	Average	HORIZONTAL
4	5239.00	116.36			113.11	4.30	33.42	34.47	116	173	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss3 VHT40 CH 151, 159 / Chain 4 + Chain 5 + Chain 6

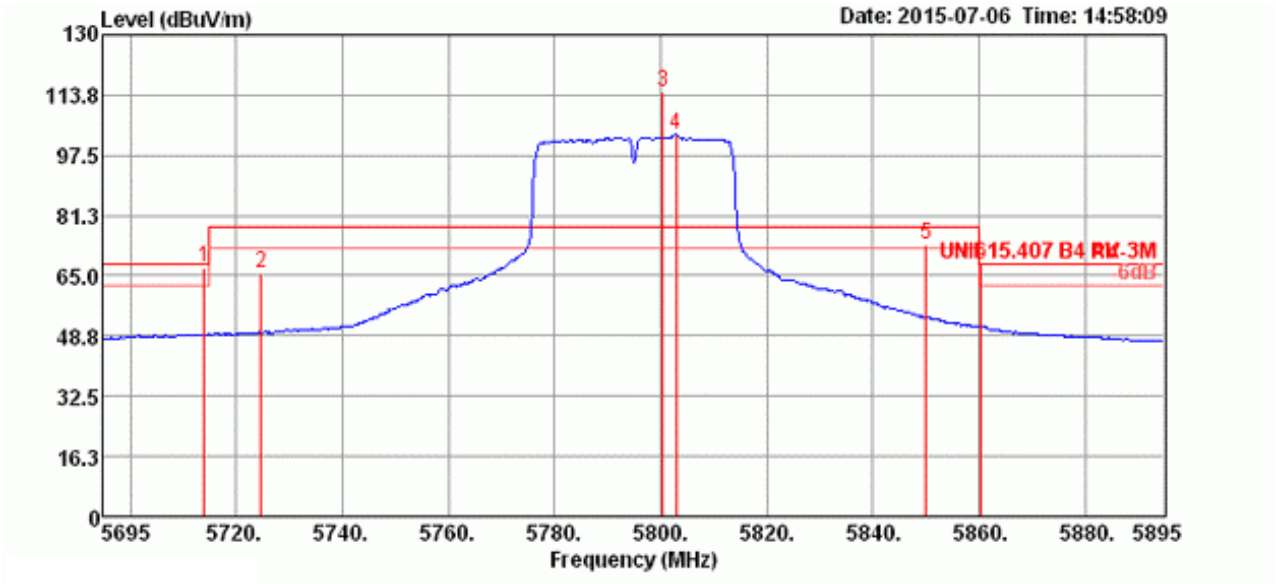
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5712.05	66.96	68.20	-1.24	58.84	6.83	34.42	33.13	Peak	177	293	HORIZONTAL
2	5722.95	71.95	78.20	-6.25	63.82	6.83	34.43	33.13	Peak	177	293	HORIZONTAL
3	5760.45	112.29			104.10	6.88	34.46	33.15	Peak	177	293	HORIZONTAL
4	5762.69	100.23			92.04	6.88	34.46	33.15	Average	177	293	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

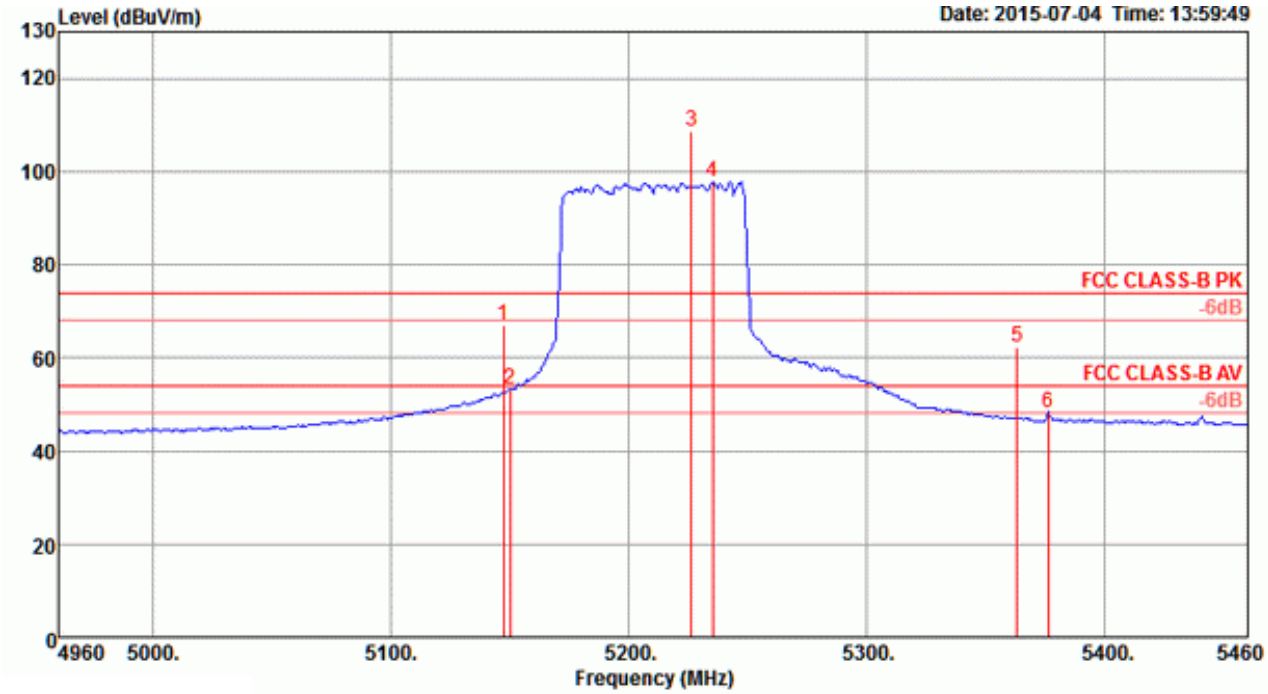


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5713.91	67.32	68.20	-0.88	59.20	6.83	34.42	33.13	Peak	179	300	HORIZONTAL
2	5724.68	65.57	78.20	-12.63	57.44	6.83	34.43	33.13	Peak	179	300	HORIZONTAL
3	5800.45	114.83			106.61	6.90	34.48	33.16	Peak	179	300	HORIZONTAL
4	5803.01	103.31			95.08	6.90	34.49	33.16	Average	179	300	HORIZONTAL
5	5850.00	73.41	78.20	-4.79	65.12	6.95	34.51	33.17	Peak	179	300	HORIZONTAL
6	5860.39	68.11	68.20	-0.09	59.80	6.97	34.52	33.18	Peak	179	300	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss3 VHT80 CH 42, 155 / Chain 4 + Chain 5 + Chain 6

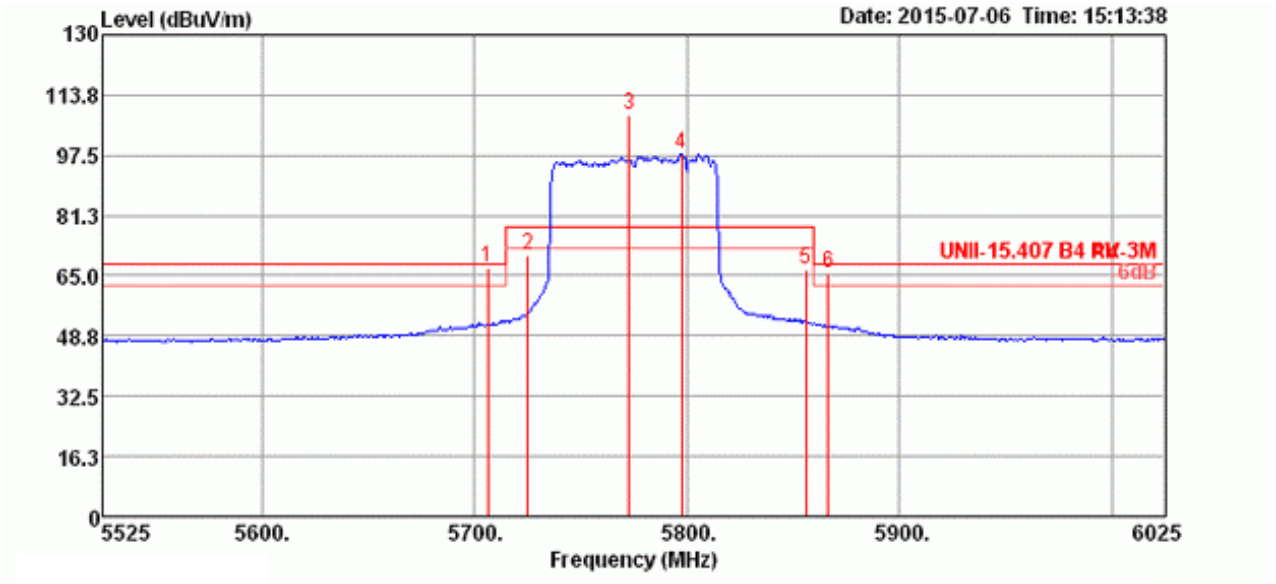
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5147.00	67.07	74.00	-6.93	64.01	4.26	33.27	34.47	107	177	Peak	HORIZONTAL
2	5150.00	53.20	54.00	-0.80	50.14	4.26	33.27	34.47	107	177	Average	HORIZONTAL
3	5226.00	108.81			105.56	4.30	33.42	34.47	107	177	Peak	HORIZONTAL
4	5235.00	97.88			94.63	4.30	33.42	34.47	107	177	Average	HORIZONTAL
5	5363.00	62.26	74.00	-11.74	58.71	4.36	33.66	34.47	107	177	Peak	HORIZONTAL
6	5376.00	48.33	54.00	-5.67	44.78	4.36	33.66	34.47	107	177	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5706.09	67.25	68.20	-0.95	59.13	6.83	34.42	33.13	Peak	170	60	HORIZONTAL
2	5725.00	70.36	78.20	-7.84	62.23	6.83	34.43	33.13	Peak	170	60	HORIZONTAL
3	5772.60	108.52			100.32	6.88	34.47	33.15	Peak	170	60	HORIZONTAL
4	5797.44	98.08			89.86	6.90	34.48	33.16	Average	170	60	HORIZONTAL
5	5855.93	66.83	78.20	-11.37	58.53	6.95	34.52	33.17	Peak	170	60	HORIZONTAL
6	5866.35	65.91	68.20	-2.29	57.60	6.97	34.52	33.18	Peak	170	60	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

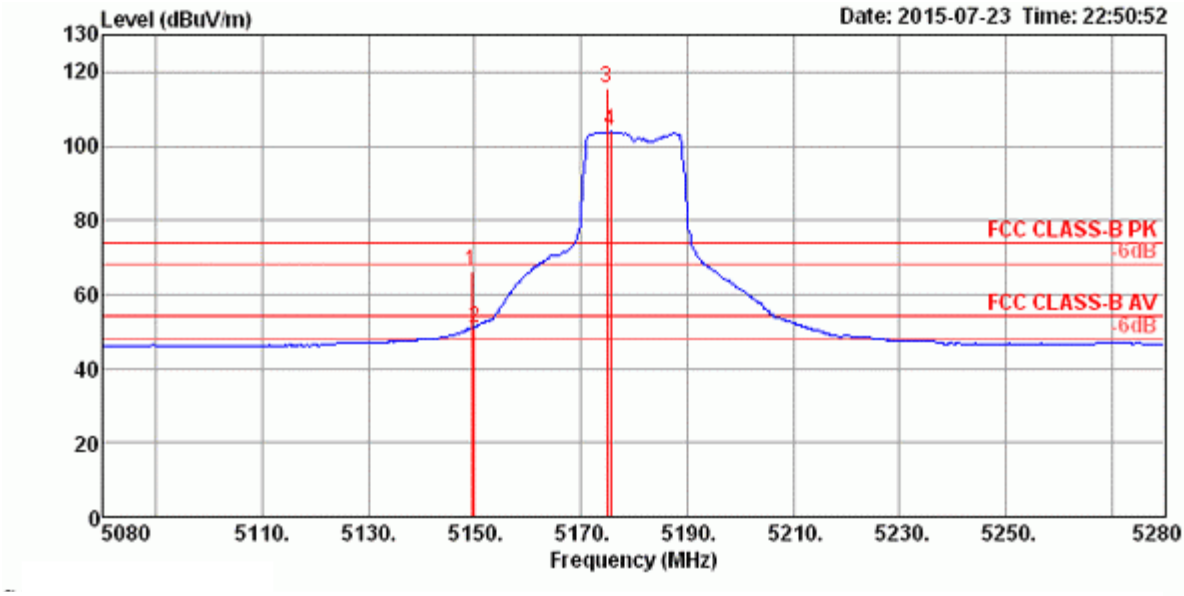
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Radio 2 Beamforming Mode>: 2TX, 1S

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 4 + Chain 5

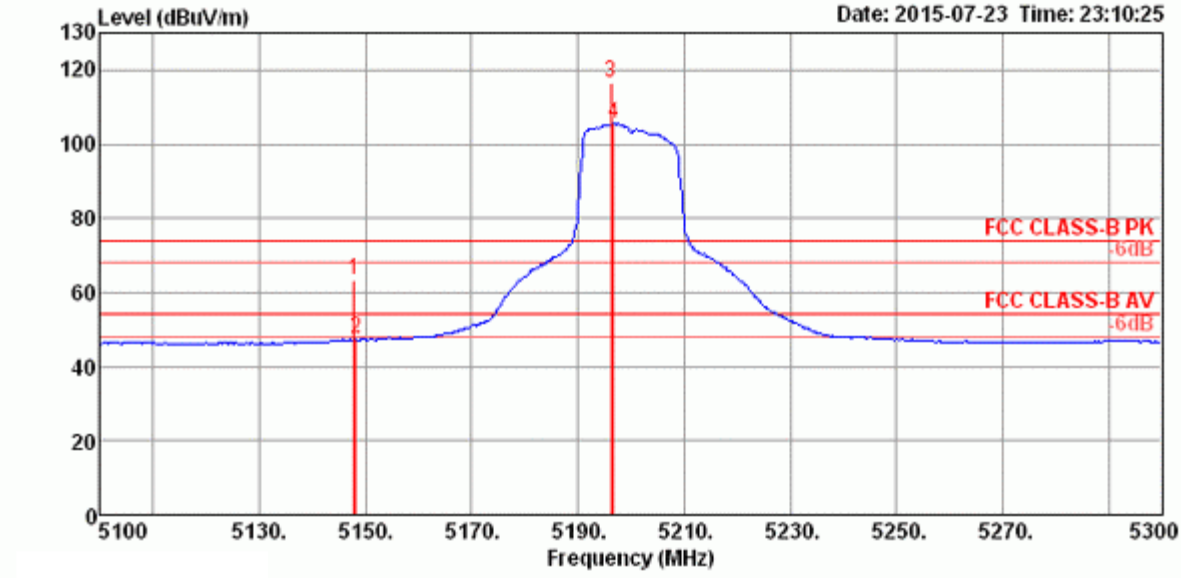
Channel 36



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.36	66.30	74.00	-7.70	59.40	6.21	33.74	33.05	178	67	Peak	HORIZONTAL
2	5150.00	51.03	54.00	-2.97	44.13	6.21	33.74	33.05	178	67	Average	HORIZONTAL
3	5174.87	115.83			108.85	6.24	33.79	33.05	178	67	Peak	HORIZONTAL
4	5175.51	103.93			96.95	6.24	33.79	33.05	178	67	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

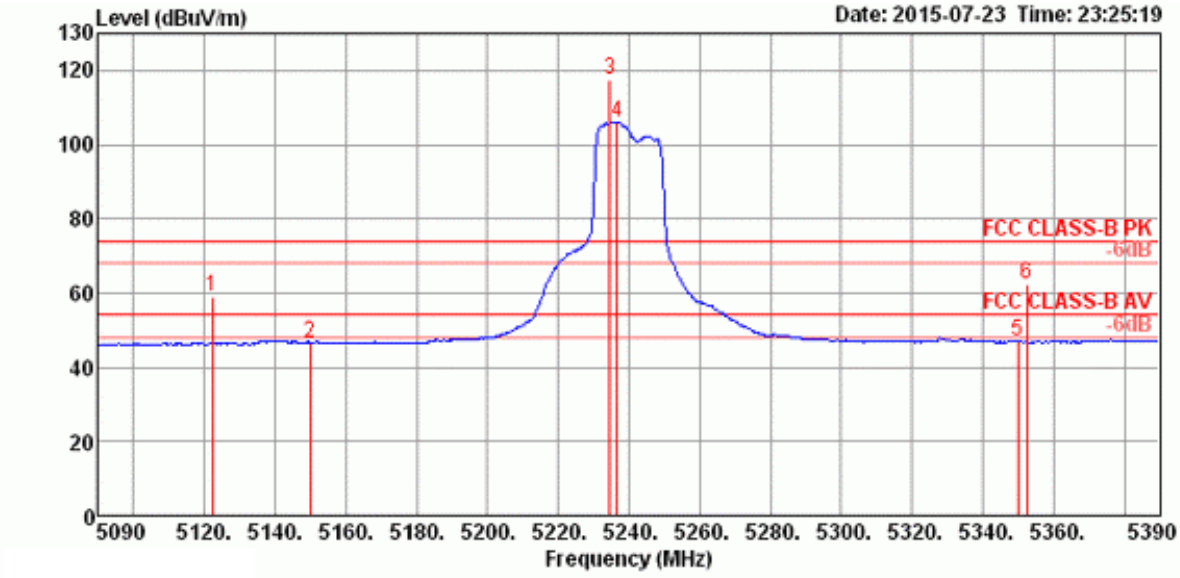
Channel 40



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.76	63.35	74.00	-10.65	56.45	6.21	33.74	33.05	194	70	Peak	HORIZONTAL
2	5148.08	47.30	54.00	-6.70	40.40	6.21	33.74	33.05	194	70	Average	HORIZONTAL
3	5196.15	116.80			109.76	6.27	33.82	33.05	194	70	Peak	HORIZONTAL
4	5196.80	105.61			98.57	6.27	33.82	33.05	194	70	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

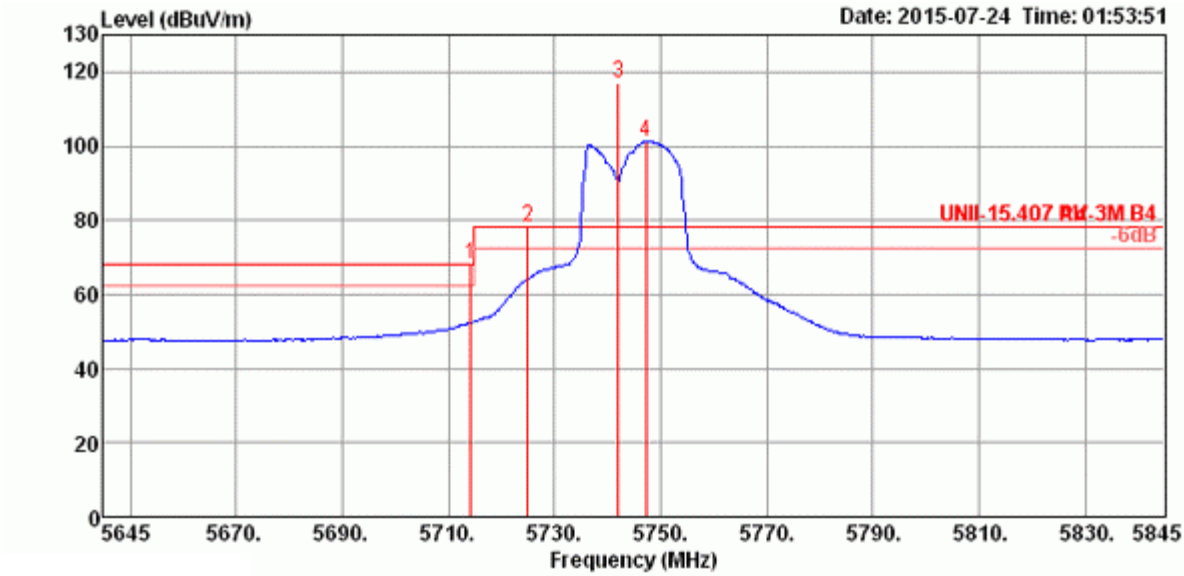


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5122.21	58.91	74.00	-15.09	52.10	6.17	33.69	33.05	183	66	Peak	HORIZONTAL
2	5150.00	46.62	54.00	-7.38	39.72	6.21	33.74	33.05	183	66	Average	HORIZONTAL
3	5234.71	117.30			110.18	6.30	33.87	33.05	183	66	Peak	HORIZONTAL
4	5236.64	105.96			98.84	6.30	33.87	33.05	183	66	Average	HORIZONTAL
5	5350.00	46.93	54.00	-7.07	39.46	6.47	34.06	33.06	183	66	Average	HORIZONTAL
6	5352.50	62.40	74.00	-11.60	54.93	6.47	34.06	33.06	183	66	Peak	HORIZONTAL

Item 3 4 are the fundamental frequency at 5240 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 4 + Chain 5

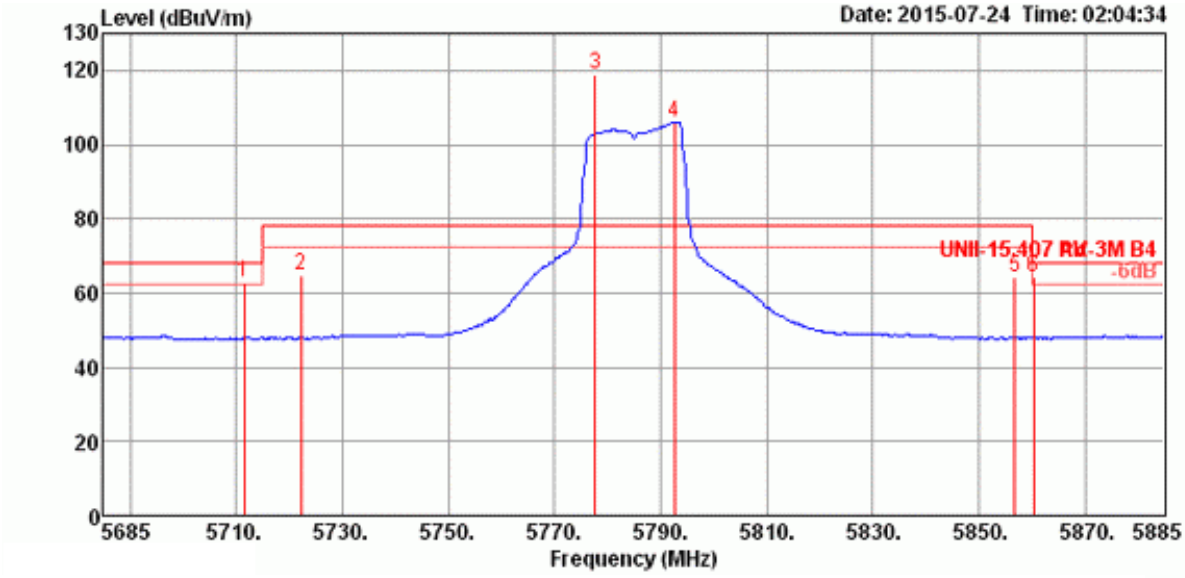
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5714.23	68.06	68.20	-0.14	59.94	6.83	34.42	33.13	159	294	Peak	HORIZONTAL
2	5725.00	77.97	78.20	-0.23	69.84	6.83	34.43	33.13	159	294	Peak	HORIZONTAL
3	5742.12	116.92			108.76	6.86	34.44	33.14	159	294	Peak	HORIZONTAL
4	5747.24	101.37			93.21	6.86	34.44	33.14	159	294	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

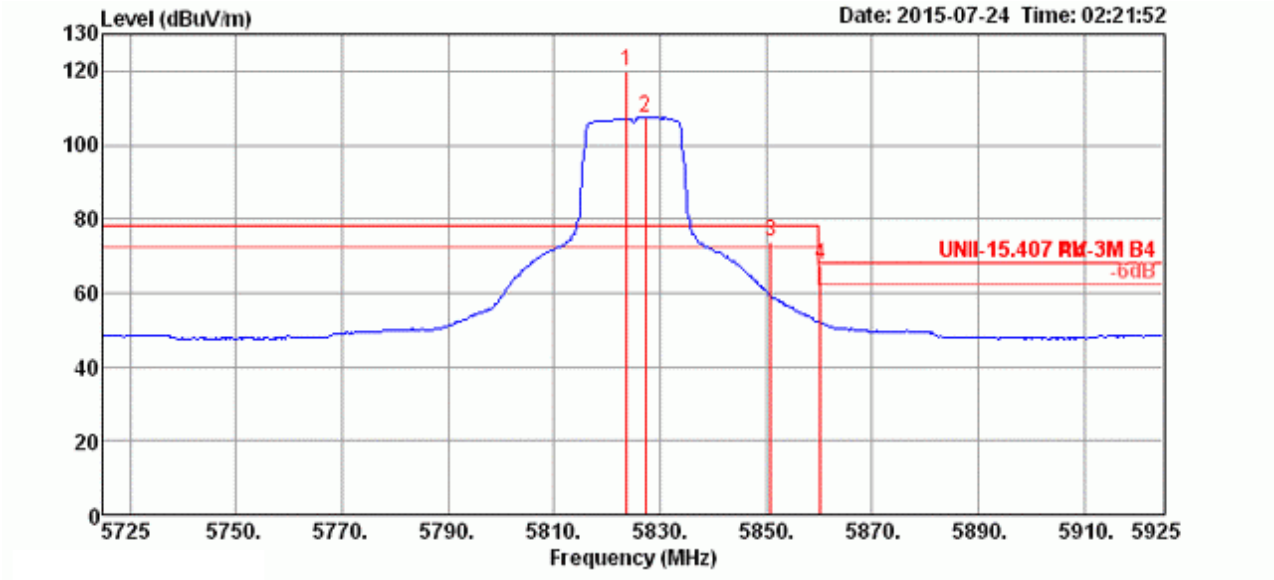
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5711.60	62.98	68.20	-5.22	54.86	6.83	34.42	33.13	178	295	Peak	HORIZONTAL
2	5722.18	64.60	78.20	-13.60	56.47	6.83	34.43	33.13	178	295	Peak	HORIZONTAL
3	5777.63	118.80			110.60	6.88	34.47	33.15	178	295	Peak	HORIZONTAL
4	5792.69	106.13			97.91	6.90	34.48	33.16	178	295	Average	HORIZONTAL
5	5856.80	64.11	78.20	-14.09	55.81	6.95	34.52	33.17	178	295	Peak	HORIZONTAL
6	5860.32	64.17	68.20	-4.03	55.86	6.97	34.52	33.18	178	295	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

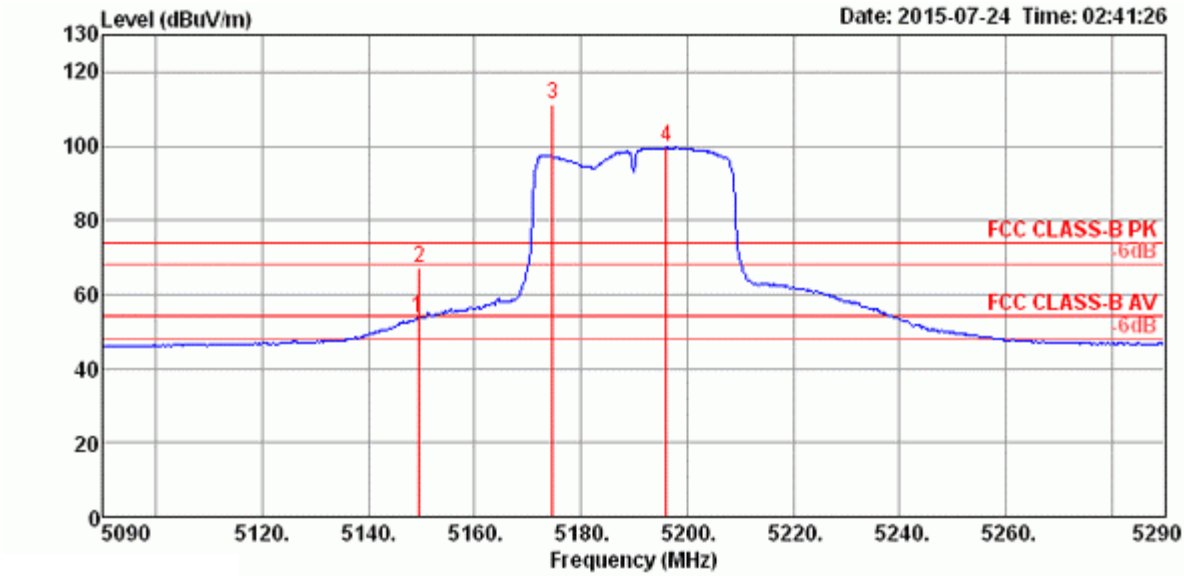


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5823.72	120.15			111.89	6.92	34.50	33.16	189	303	Peak	HORIZONTAL
2	5827.24	107.63			99.37	6.92	34.50	33.16	189	303	Average	HORIZONTAL
3	5850.96	73.74	78.20	-4.46	65.45	6.95	34.51	33.17	189	303	Peak	HORIZONTAL
4	5860.26	67.68	68.20	-0.52	59.37	6.97	34.52	33.18	189	303	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 4 + Chain 5

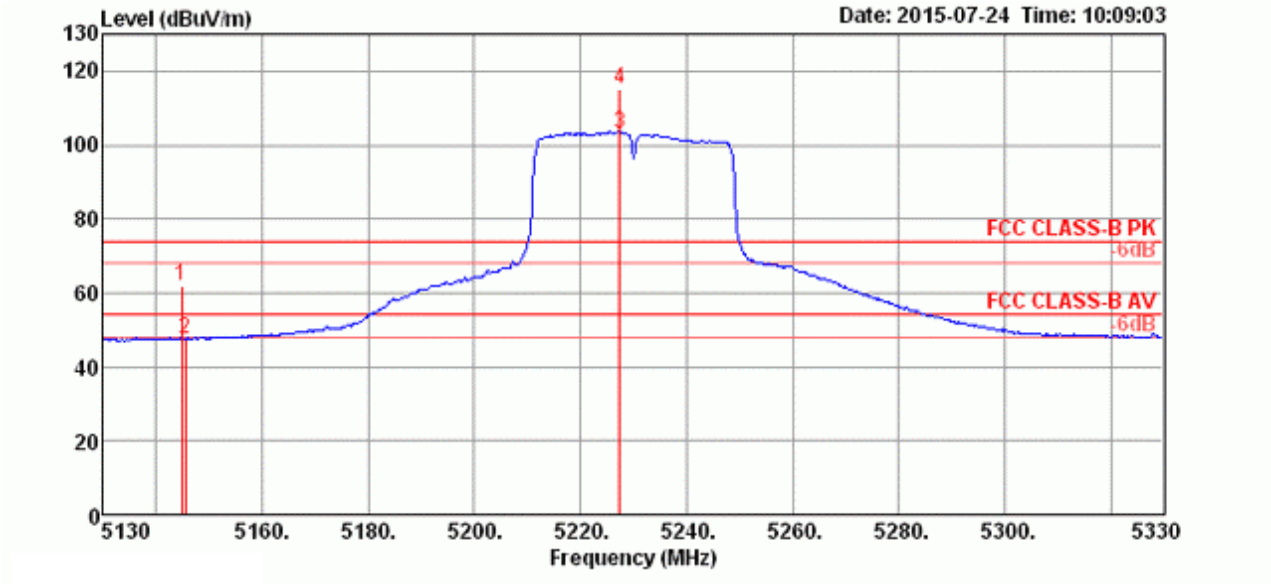
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.30	53.81	54.00	-0.19	46.91	6.21	33.74	33.05	174	65	Average	HORIZONTAL
2	5149.62	67.07	74.00	-6.93	60.17	6.21	33.74	33.05	174	65	Peak	HORIZONTAL
3	5174.62	111.32			104.34	6.24	33.79	33.05	174	65	Peak	HORIZONTAL
4	5196.09	99.65			92.61	6.27	33.82	33.05	174	65	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

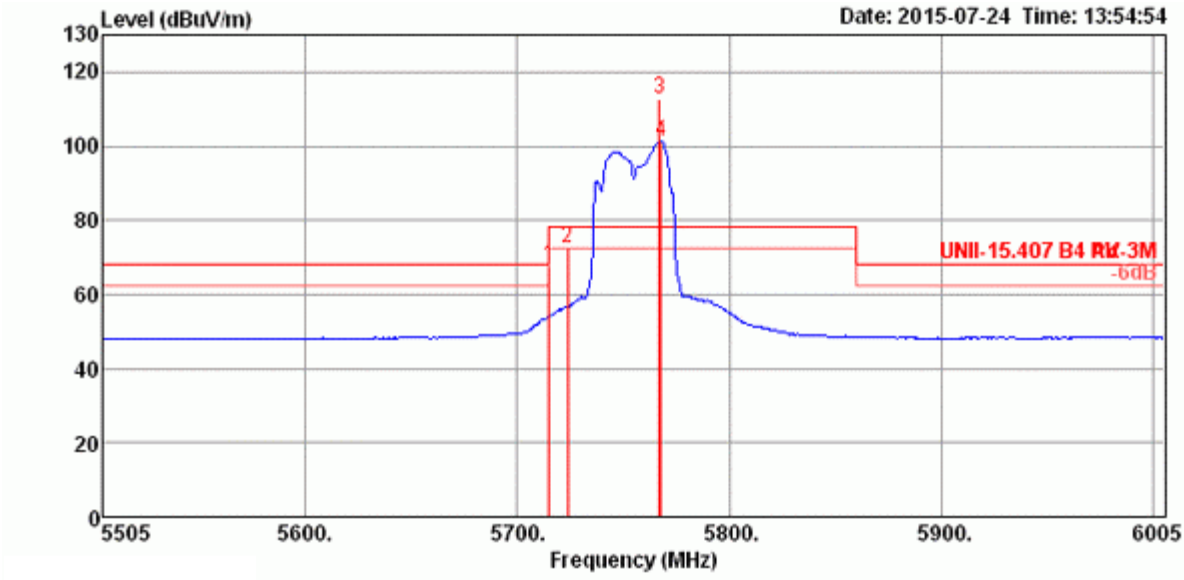


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.74	61.69	74.00	-12.31	54.79	6.21	33.74	33.05	189	300	Peak	HORIZONTAL
2	5145.39	47.68	54.00	-6.32	40.78	6.21	33.74	33.05	189	300	Average	HORIZONTAL
3	5227.44	103.17			96.05	6.30	33.87	33.05	189	300	Average	HORIZONTAL
4	5227.44	115.03			107.91	6.30	33.87	33.05	189	300	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 4 + Chain 5

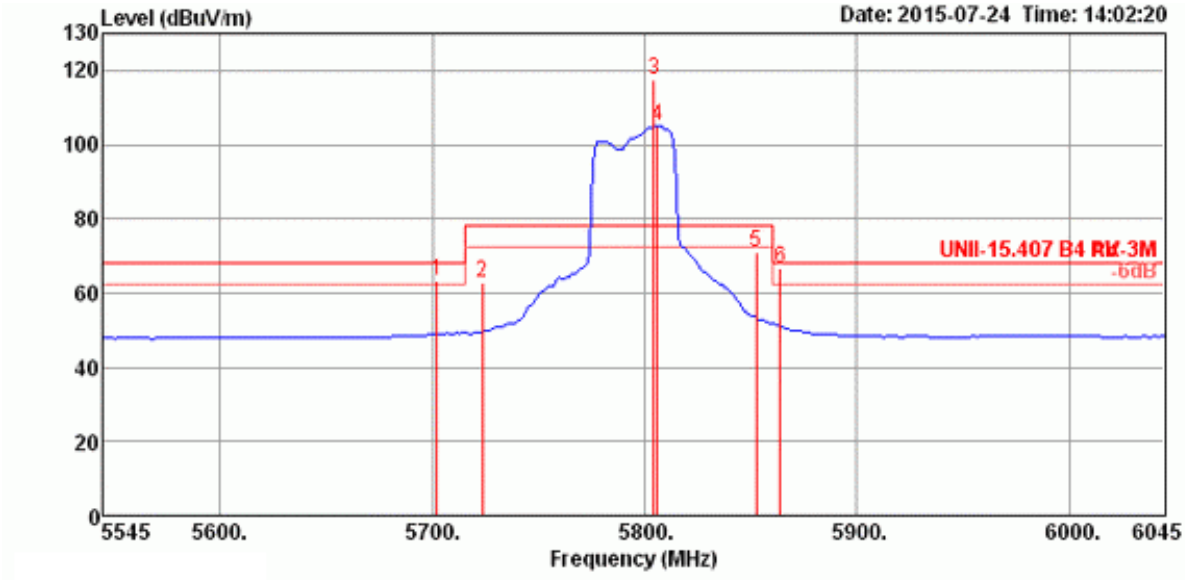
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5715.00	67.52	68.20	-0.68	59.40	6.83	34.42	33.13	178	295	Peak	HORIZONTAL
2	5723.75	72.55	78.20	-5.65	64.42	6.83	34.43	33.13	178	295	Peak	HORIZONTAL
3	5767.02	112.91			104.72	6.88	34.46	33.15	178	295	Peak	HORIZONTAL
4	5767.82	101.22			93.03	6.88	34.46	33.15	178	295	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

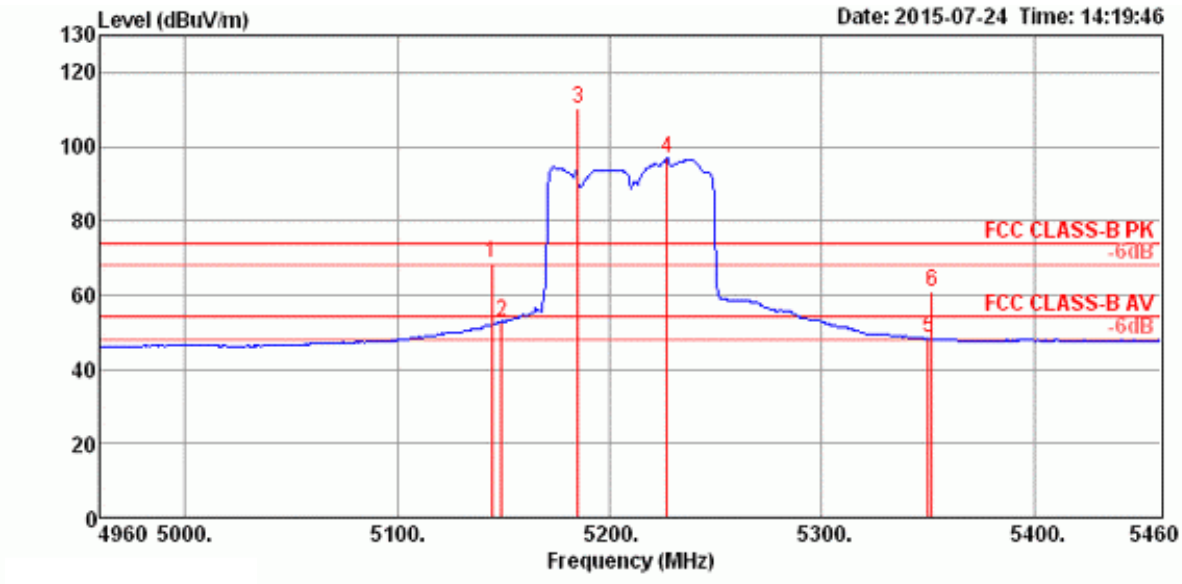


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5702.05	63.49	68.20	-4.71	55.38	6.81	34.42	33.12	179	306	Peak	HORIZONTAL
2	5723.40	63.02	78.20	-15.18	54.89	6.83	34.43	33.13	179	306	Peak	HORIZONTAL
3	5804.62	117.71			109.48	6.90	34.49	33.16	179	306	Peak	HORIZONTAL
4	5806.22	105.13			96.90	6.90	34.49	33.16	179	306	Average	HORIZONTAL
5	5852.69	71.22	78.20	-6.98	62.93	6.95	34.51	33.17	179	306	Peak	HORIZONTAL
6	5863.91	66.67	68.20	-1.53	58.36	6.97	34.52	33.18	179	306	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 4 + Chain 5

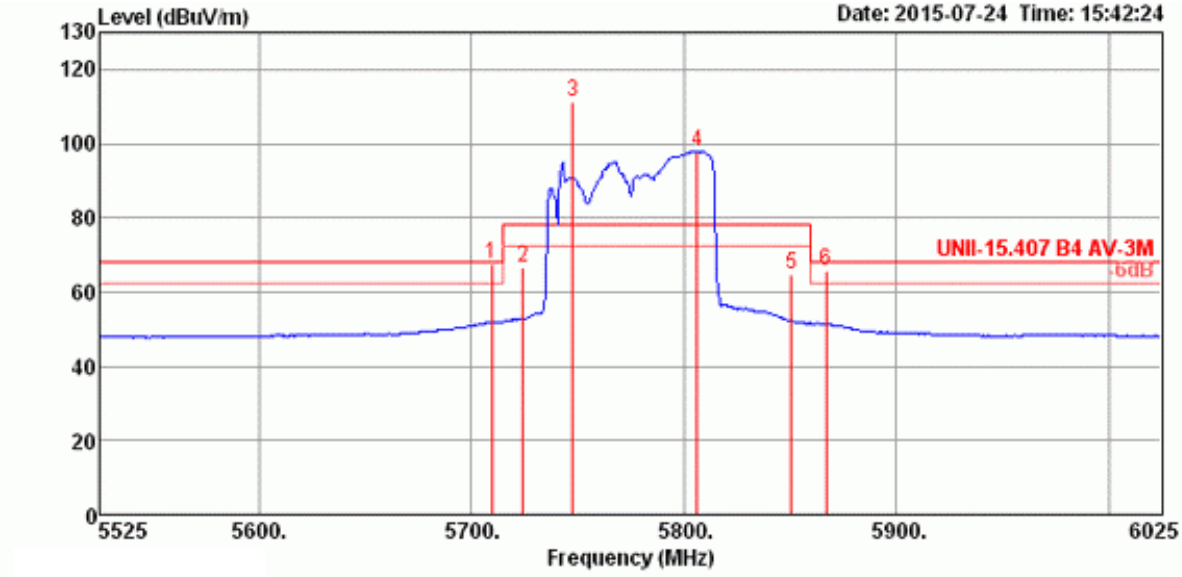
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.30	68.66	74.00	-5.34	61.76	6.21	33.74	33.05	185	66	Peak	HORIZONTAL
2	5149.10	52.84	54.00	-1.16	45.94	6.21	33.74	33.05	185	66	Average	HORIZONTAL
3	5185.16	110.30			103.32	6.24	33.79	33.05	185	66	Peak	HORIZONTAL
4	5226.83	96.72			89.60	6.30	33.87	33.05	185	66	Average	HORIZONTAL
5	5350.00	48.22	54.00	-5.78	40.75	6.47	34.06	33.06	185	66	Average	HORIZONTAL
6	5351.83	60.96	74.00	-13.04	53.49	6.47	34.06	33.06	185	66	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5709.30	67.57	68.20	-0.63	59.45	6.83	34.42	33.13	183	299	Peak	HORIZONTAL
2	5724.20	66.77	78.20	-11.43	58.64	6.83	34.43	33.13	183	299	Peak	HORIZONTAL
3	5747.76	111.42			103.26	6.86	34.44	33.14	183	299	Peak	HORIZONTAL
4	5806.25	97.90			89.67	6.90	34.49	33.16	183	299	Average	HORIZONTAL
5	5850.80	64.89	78.20	-13.31	56.60	6.95	34.51	33.17	183	299	Peak	HORIZONTAL
6	5867.15	65.85	68.20	-2.35	57.54	6.97	34.52	33.18	183	299	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

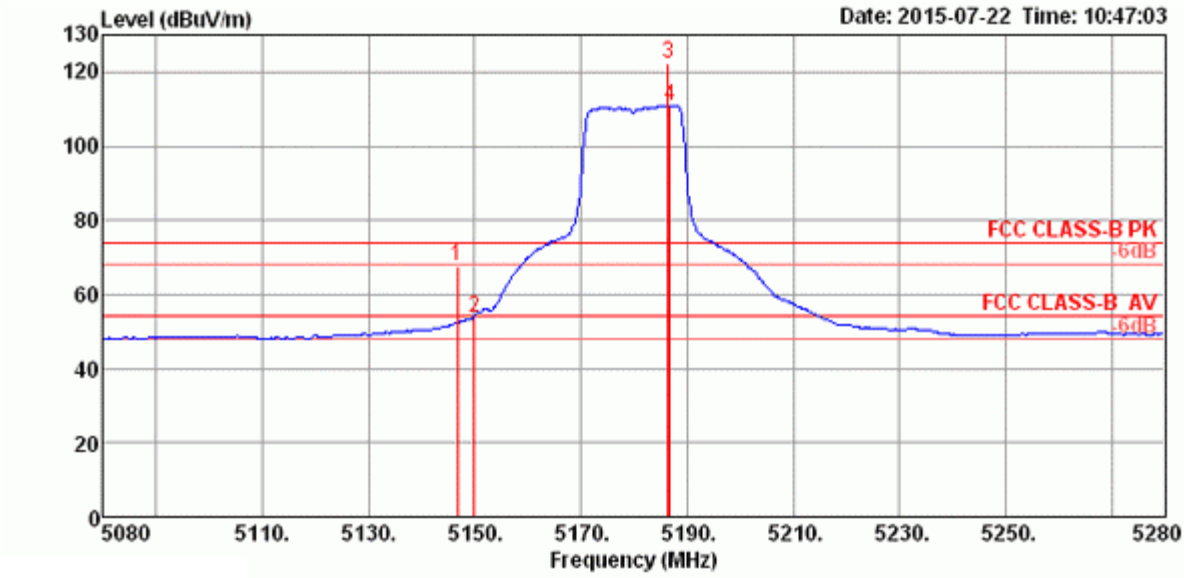
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Radio 2 Beamforming Mode>: 3TX, 1S

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 4 + Chain 5 + Chain 6

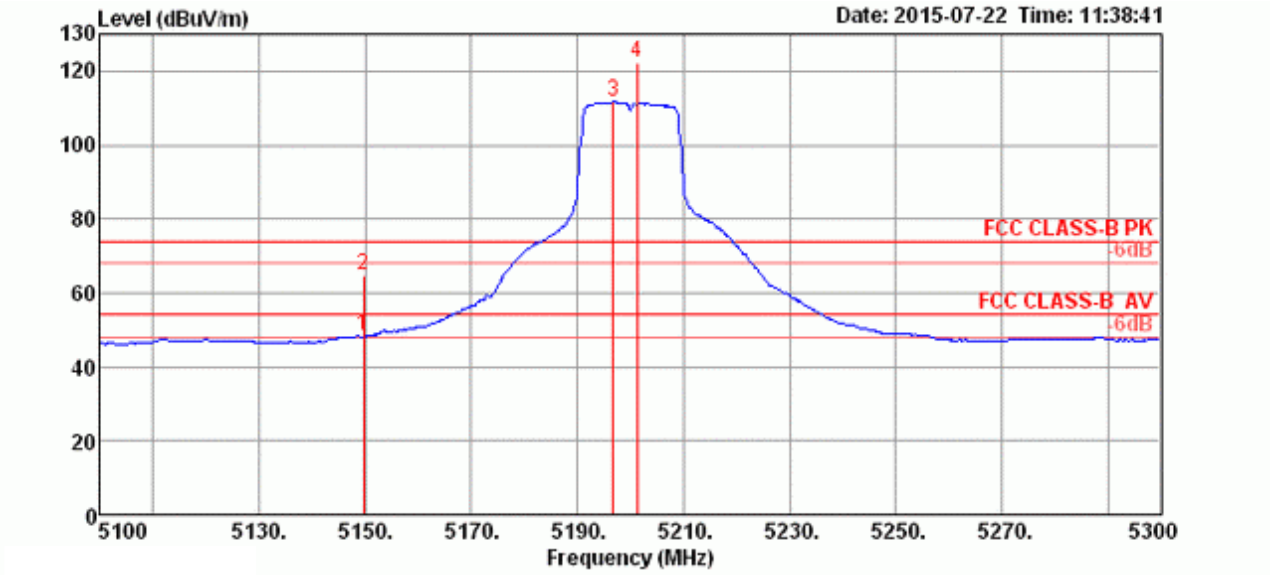
Channel 36



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.80	67.41	74.00	-6.59	60.51	6.21	33.74	33.05	183	292	Peak	HORIZONTAL
2	5150.00	53.88	54.00	-0.12	46.98	6.21	33.74	33.05	183	292	Average	HORIZONTAL
3	5186.40	122.40			115.42	6.24	33.79	33.05	183	292	Peak	HORIZONTAL
4	5186.80	110.85			103.87	6.24	33.79	33.05	183	292	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

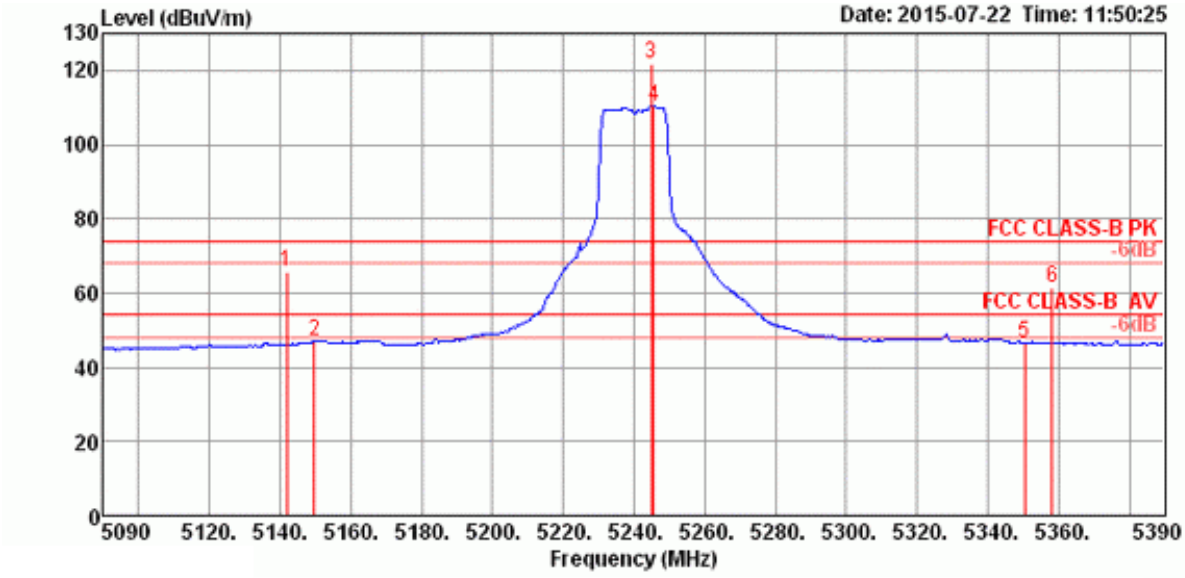
Channel 40



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.68	48.41	54.00	-5.59	41.51	6.21	33.74	33.05	179	294	Average	HORIZONTAL
2	5149.68	64.79	74.00	-9.21	57.89	6.21	33.74	33.05	179	294	Peak	HORIZONTAL
3	5196.80	111.67			104.63	6.27	33.82	33.05	179	294	Average	HORIZONTAL
4	5201.28	122.20			115.16	6.27	33.82	33.05	179	294	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

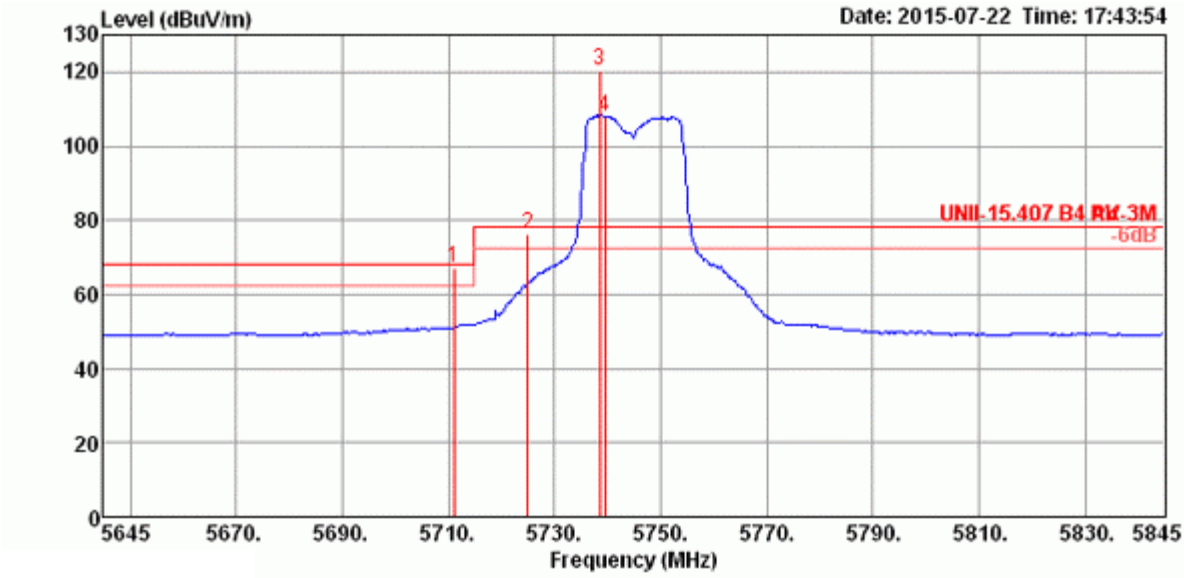


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5141.92	65.59	74.00	-8.41	58.73	6.17	33.74	33.05	168	289	Peak	HORIZONTAL
2	5149.62	46.90	54.00	-7.10	40.00	6.21	33.74	33.05	168	289	Average	HORIZONTAL
3	5244.81	121.89			114.74	6.30	33.90	33.05	168	289	Peak	HORIZONTAL
4	5245.77	110.26			103.08	6.34	33.90	33.06	168	289	Average	HORIZONTAL
5	5350.58	46.74	54.00	-7.26	39.27	6.47	34.06	33.06	168	289	Average	HORIZONTAL
6	5358.27	61.38	74.00	-12.62	53.91	6.47	34.06	33.06	168	289	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 4 + Chain 5 + Chain 6

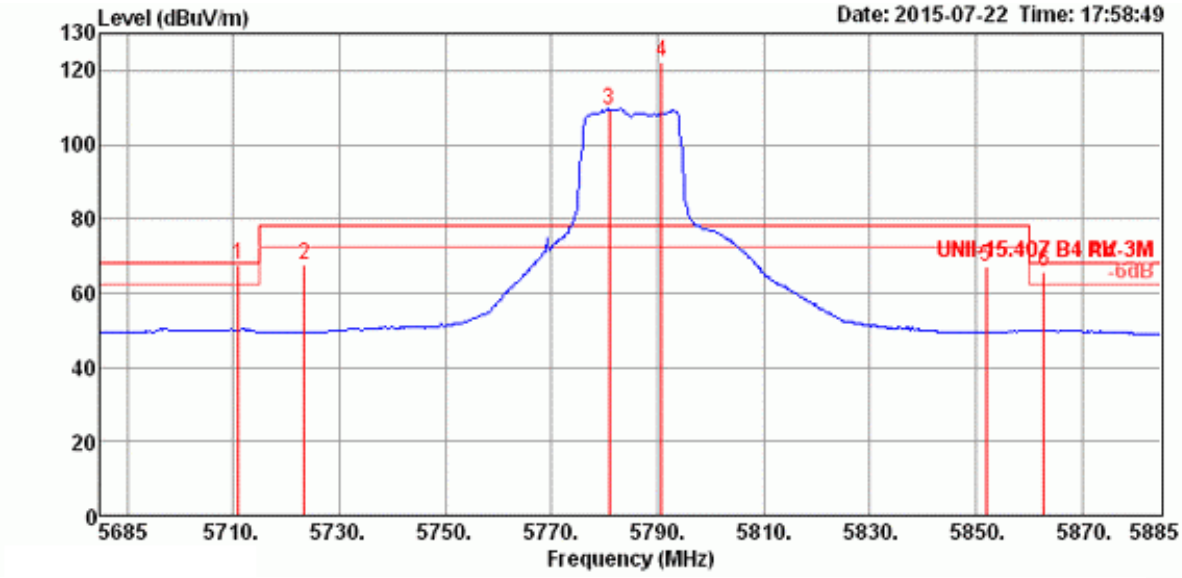
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5711.03	67.10	68.20	-1.10	58.98	6.83	34.42	33.13	173	298	Peak	HORIZONTAL
2	5725.00	76.38	78.20	-1.82	68.25	6.83	34.43	33.13	173	298	Peak	HORIZONTAL
3	5738.59	120.37			112.21	6.86	34.44	33.14	173	298	Peak	HORIZONTAL
4	5739.55	108.08			99.92	6.86	34.44	33.14	173	298	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

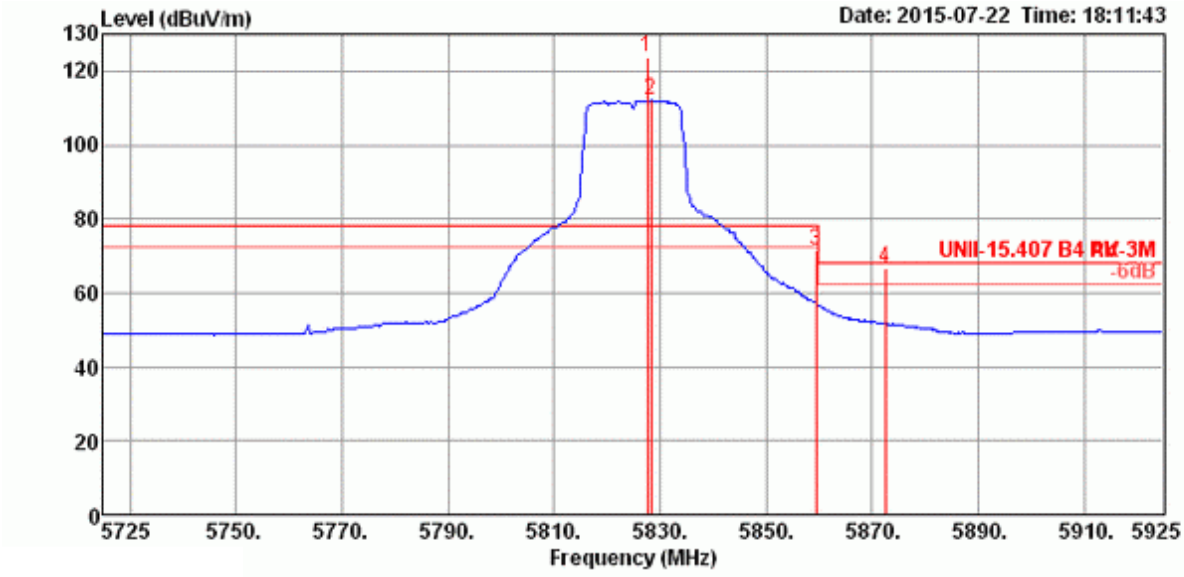
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5710.96	67.86	68.20	-0.34	59.74	6.83	34.42	33.13	171	298	Peak	HORIZONTAL
2	5723.46	67.82	78.20	-10.38	59.69	6.83	34.43	33.13	171	298	Peak	HORIZONTAL
3	5780.83	109.60			101.40	6.88	34.47	33.15	171	298	Average	HORIZONTAL
4	5790.77	122.08			113.86	6.90	34.48	33.16	171	298	Peak	HORIZONTAL
5	5851.99	67.08	78.20	-11.12	58.79	6.95	34.51	33.17	171	298	Peak	HORIZONTAL
6	5862.89	65.80	68.20	-2.40	57.49	6.97	34.52	33.18	171	298	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

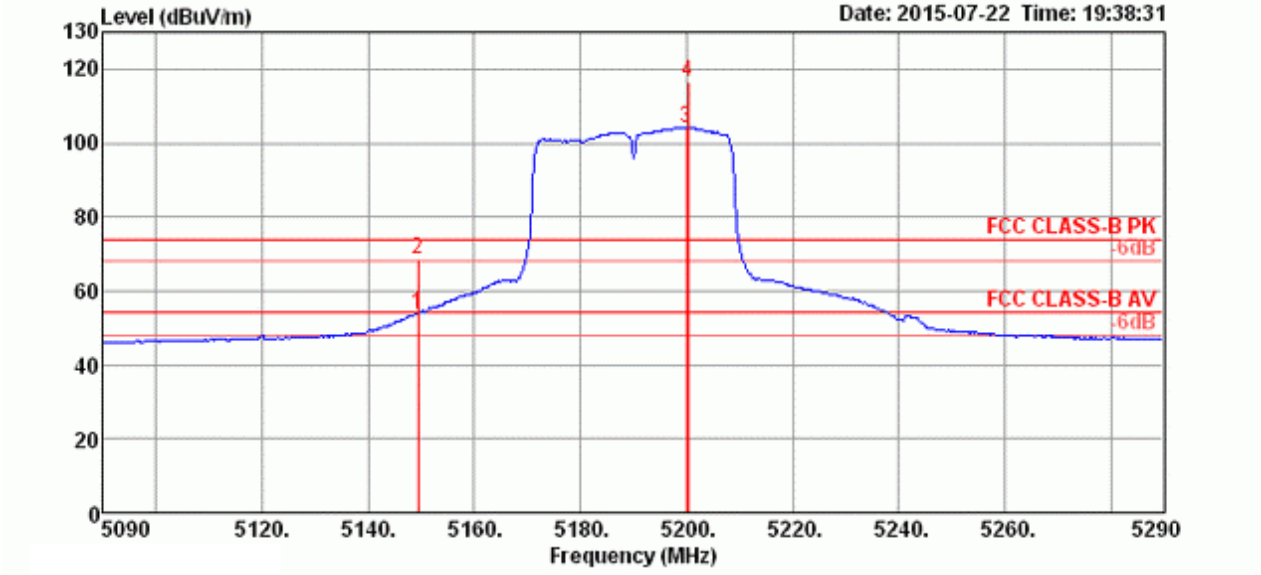


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5827.56	123.90			115.64	6.92	34.50	33.16	172	301	Peak	HORIZONTAL
2	5828.21	112.01			103.75	6.92	34.50	33.16	172	301	Average	HORIZONTAL
3	5859.42	71.51	78.20	-6.69	63.20	6.97	34.52	33.18	172	301	Peak	HORIZONTAL
4	5872.44	66.85	68.20	-1.35	58.53	6.97	34.53	33.18	172	301	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 4 + Chain 5 + Chain 6

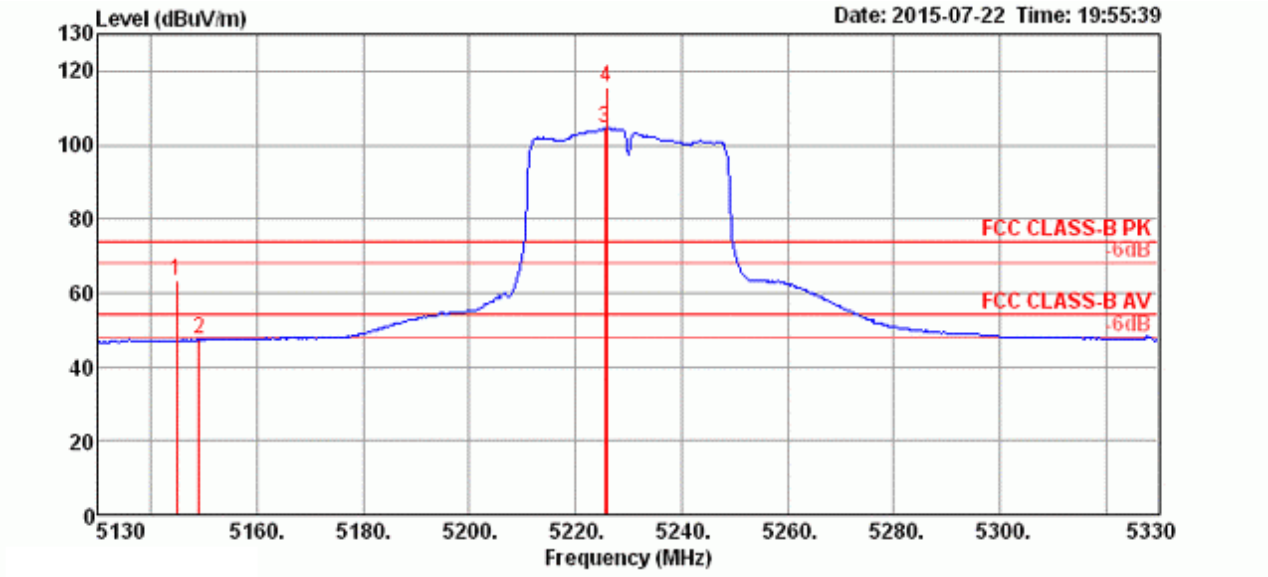
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5149.30	53.81	54.00	-0.19	46.91	6.21	33.74	33.05	178	292	Average	HORIZONTAL
2	5149.30	68.64	74.00	-5.36	61.74	6.21	33.74	33.05	178	292	Peak	HORIZONTAL
3	5199.94	103.93			96.89	6.27	33.82	33.05	178	292	Average	HORIZONTAL
4	5200.26	116.40			109.36	6.27	33.82	33.05	178	292	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

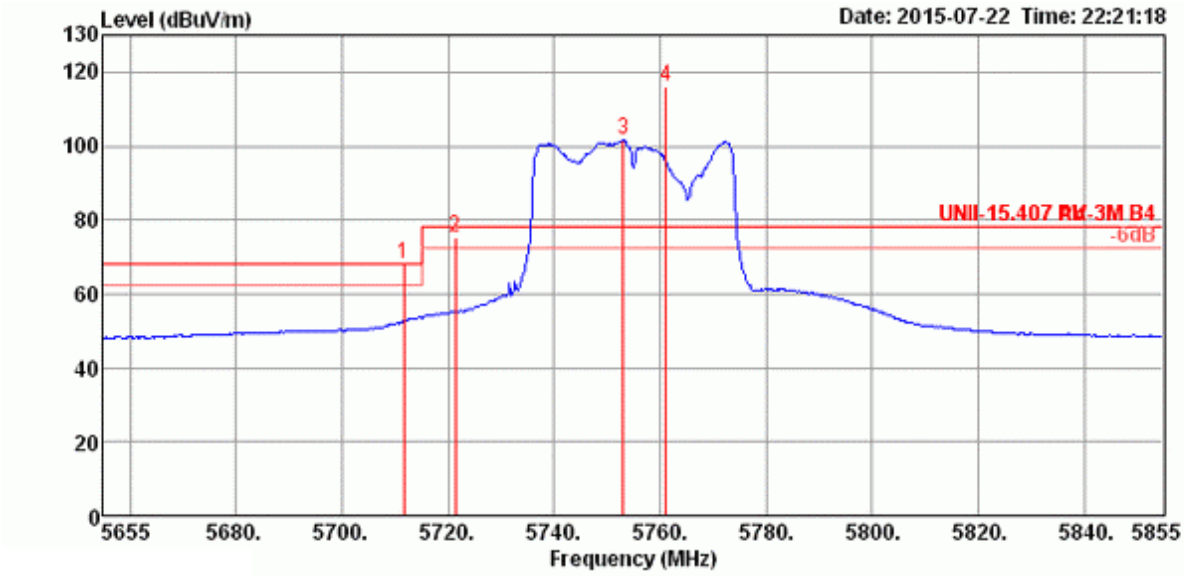


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5144.74	63.53	74.00	-10.47	56.63	6.21	33.74	33.05	187	291	Peak	HORIZONTAL
2	5148.91	47.45	54.00	-6.55	40.55	6.21	33.74	33.05	187	291	Average	HORIZONTAL
3	5225.51	104.71			97.59	6.30	33.87	33.05	187	291	Average	HORIZONTAL
4	5225.83	115.41			108.29	6.30	33.87	33.05	187	291	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 4 + Chain 5 + Chain 6

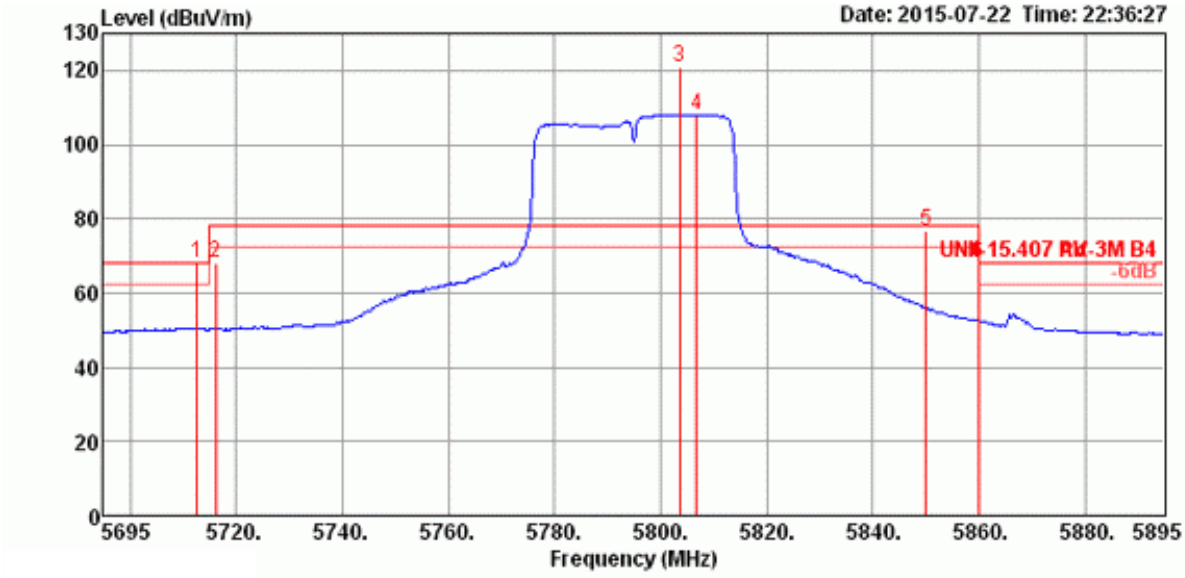
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5711.73	67.98	68.20	-0.22	59.86	6.83	34.42	33.13	177	295	Peak	HORIZONTAL
2	5721.35	75.46	78.20	-2.74	67.33	6.83	34.43	33.13	177	295	Peak	HORIZONTAL
3	5753.08	101.73			93.55	6.86	34.46	33.14	177	295	Average	HORIZONTAL
4	5761.09	115.88			107.69	6.88	34.46	33.15	177	295	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

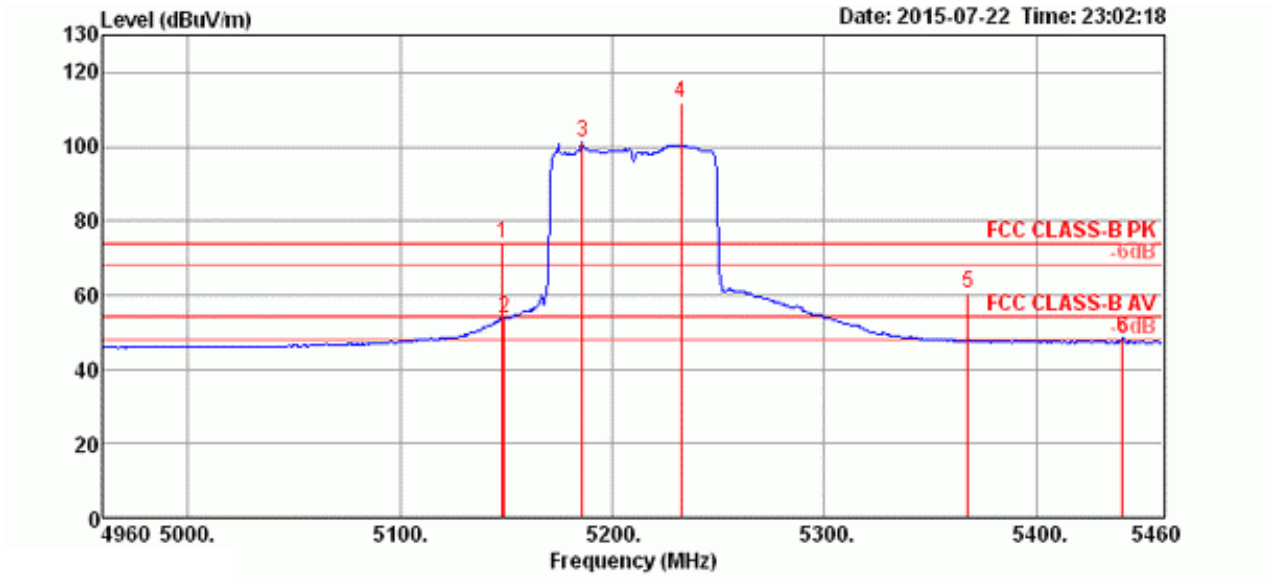


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5712.63	68.02	68.20	-0.18	59.90	6.83	34.42	33.13	171	301	Peak	HORIZONTAL
2	5716.15	68.24	78.20	-9.96	60.12	6.83	34.42	33.13	171	301	Peak	HORIZONTAL
3	5803.65	120.65			112.42	6.90	34.49	33.16	171	301	Peak	HORIZONTAL
4	5806.86	108.02			99.77	6.92	34.49	33.16	171	301	Average	HORIZONTAL
5	5850.00	76.80	78.20	-1.40	68.51	6.95	34.51	33.17	171	301	Peak	HORIZONTAL
6	5860.00	68.10	68.20	-0.10	59.79	6.97	34.52	33.18	171	301	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 4 + Chain 5 + Chain 6

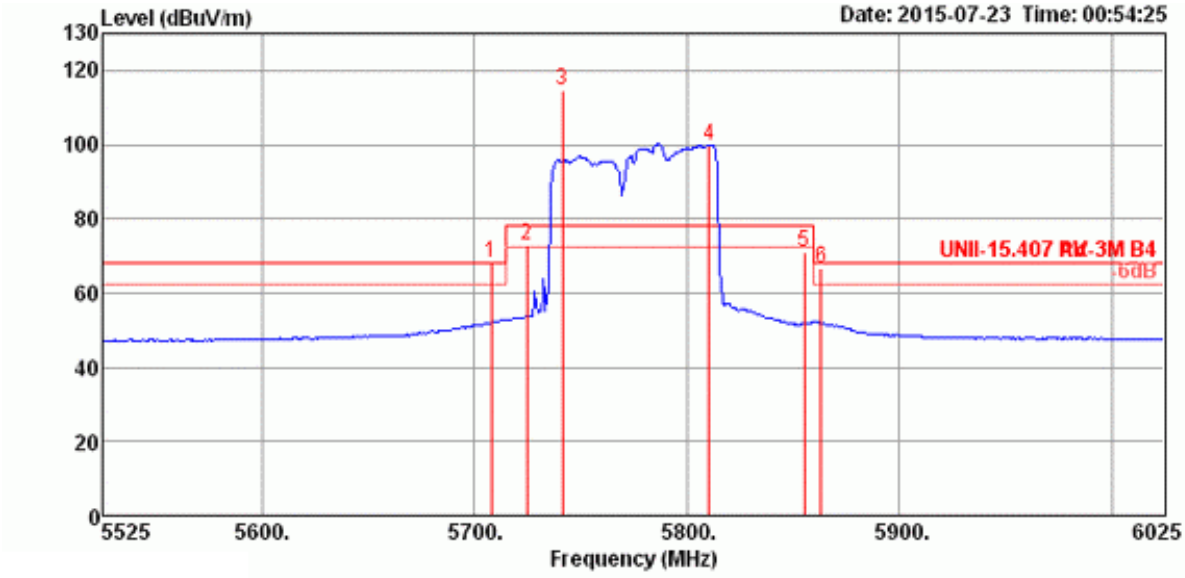
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.30	73.88	74.00	-0.12	66.98	6.21	33.74	33.05	183	295	Peak	HORIZONTAL
2	5149.10	53.73	54.00	-0.27	46.83	6.21	33.74	33.05	183	295	Average	HORIZONTAL
3	5185.96	101.24			94.26	6.24	33.79	33.05	183	295	Average	HORIZONTAL
4	5232.44	111.61			104.49	6.30	33.87	33.05	183	295	Peak	HORIZONTAL
5	5367.85	60.52	74.00	-13.48	53.02	6.47	34.09	33.06	183	295	Peak	HORIZONTAL
6	5440.77	48.33	54.00	-5.67	40.64	6.56	34.19	33.06	183	295	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5707.69	68.10	68.20	-0.10	59.98	6.83	34.42	33.13	165	292	Peak	HORIZONTAL
2	5724.52	72.88	78.20	-5.32	64.75	6.83	34.43	33.13	165	292	Peak	HORIZONTAL
3	5741.35	114.72			106.56	6.86	34.44	33.14	165	292	Peak	HORIZONTAL
4	5810.26	99.85			91.60	6.92	34.49	33.16	165	292	Average	HORIZONTAL
5	5855.13	70.77	78.20	-7.43	62.47	6.95	34.52	33.17	165	292	Peak	HORIZONTAL
6	5863.14	66.75	68.20	-1.45	58.44	6.97	34.52	33.18	165	292	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

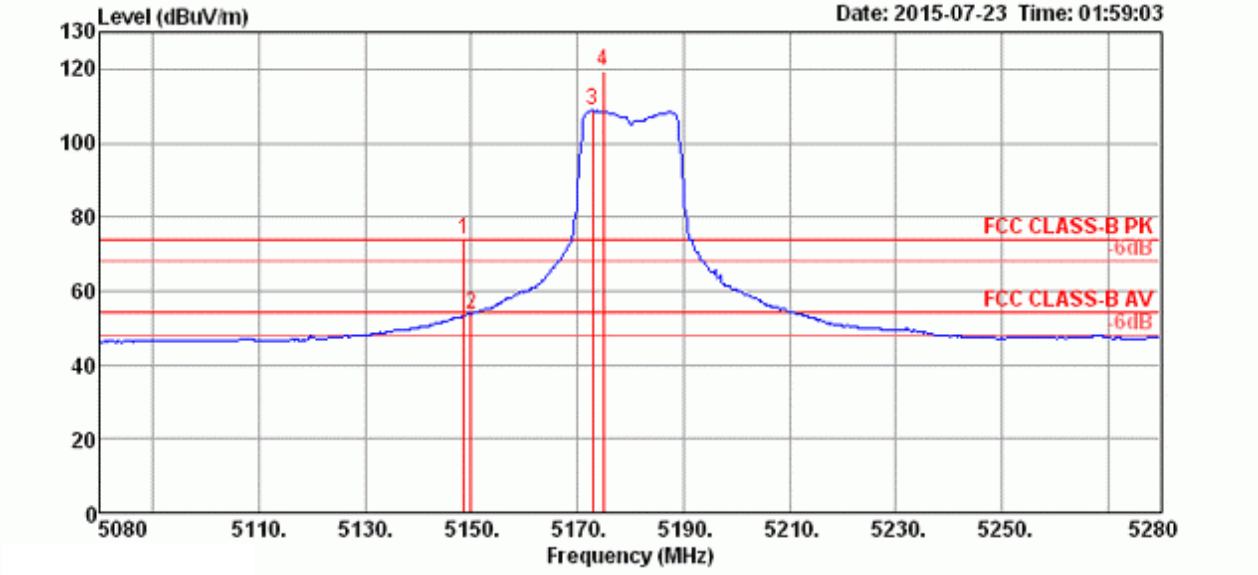
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Radio 2 Beamforming Mode>: 3TX, 2S

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 CH 36, 40, 48 / Chain 4 + Chain 5 + Chain 6

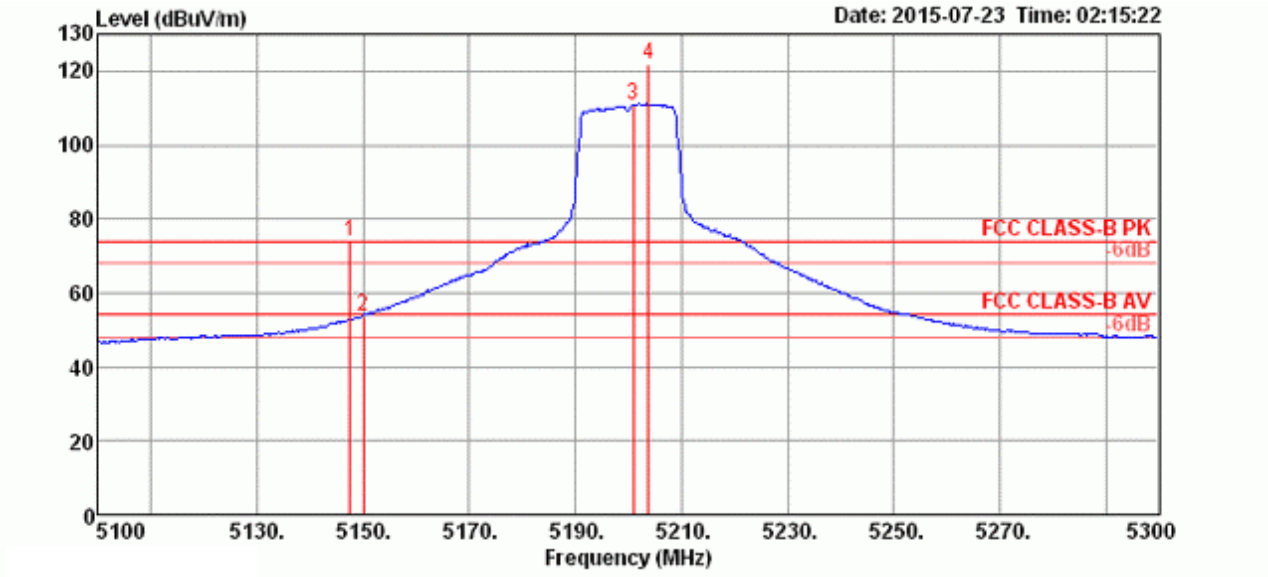
Channel 36



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5148.59	73.85	74.00	-0.15	66.95	6.21	33.74	33.05	185	301	Peak	HORIZONTAL
2	5150.00	53.56	54.00	-0.44	46.66	6.21	33.74	33.05	185	301	Average	HORIZONTAL
3	5172.95	108.69			101.73	6.24	33.77	33.05	185	301	Average	HORIZONTAL
4	5174.87	119.63			112.65	6.24	33.79	33.05	185	301	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

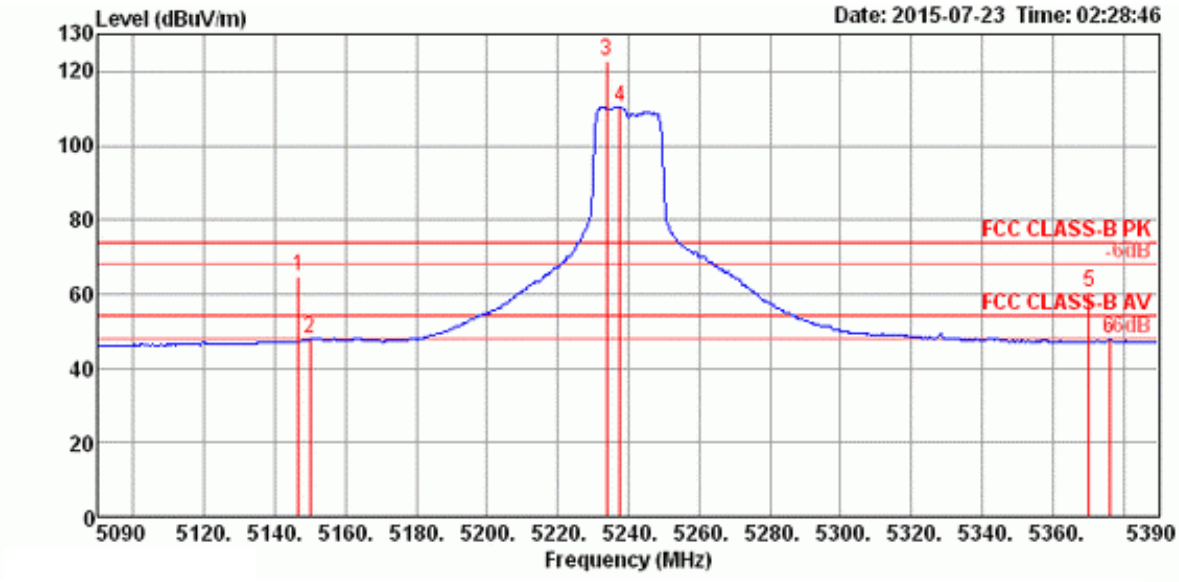
Channel 40



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.44	73.77	74.00	-0.23	66.87	6.21	33.74	33.05	180	301	Peak	HORIZONTAL
2	5150.00	53.65	54.00	-0.35	46.75	6.21	33.74	33.05	180	301	Average	HORIZONTAL
3	5200.96	110.97			103.93	6.27	33.82	33.05	180	301	Average	HORIZONTAL
4	5203.85	122.00			114.96	6.27	33.82	33.05	180	301	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

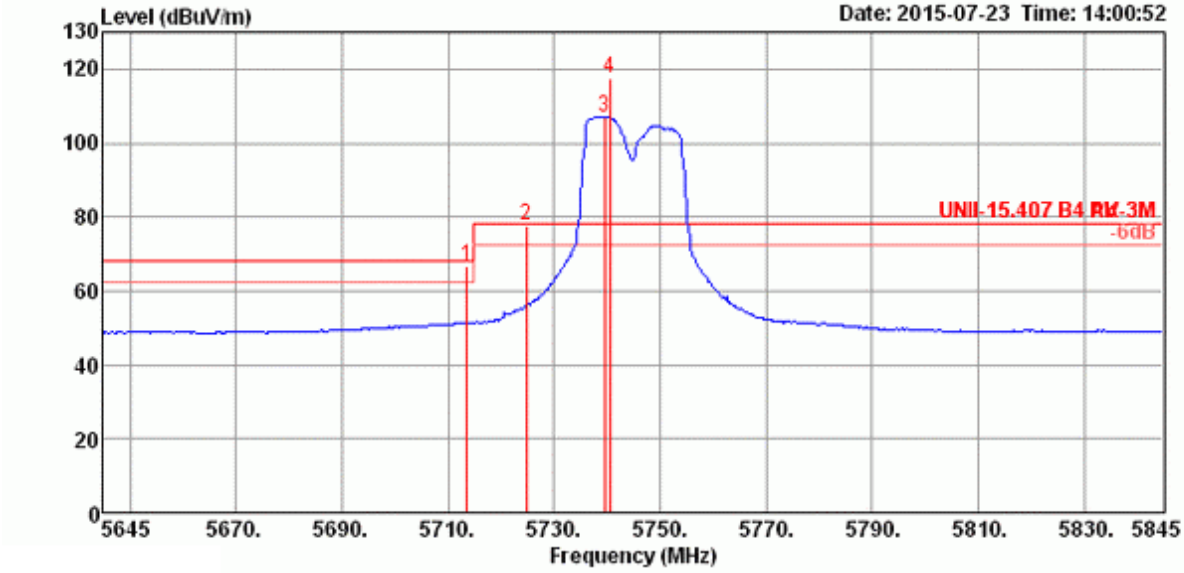


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.73	64.60	74.00	-9.40	57.70	6.21	33.74	33.05	184	296	Peak	HORIZONTAL
2	5150.00	47.90	54.00	-6.10	41.00	6.21	33.74	33.05	184	296	Average	HORIZONTAL
3	5233.75	122.75			115.63	6.30	33.87	33.05	184	296	Peak	HORIZONTAL
4	5237.60	110.36			103.24	6.30	33.87	33.05	184	296	Average	HORIZONTAL
5	5370.29	60.62	74.00	-13.38	53.12	6.47	34.09	33.06	184	296	Peak	HORIZONTAL
6	5376.06	47.75	54.00	-6.25	40.22	6.50	34.09	33.06	184	296	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT20 CH 149, 157, 165 / Chain 4 + Chain 5 + Chain 6

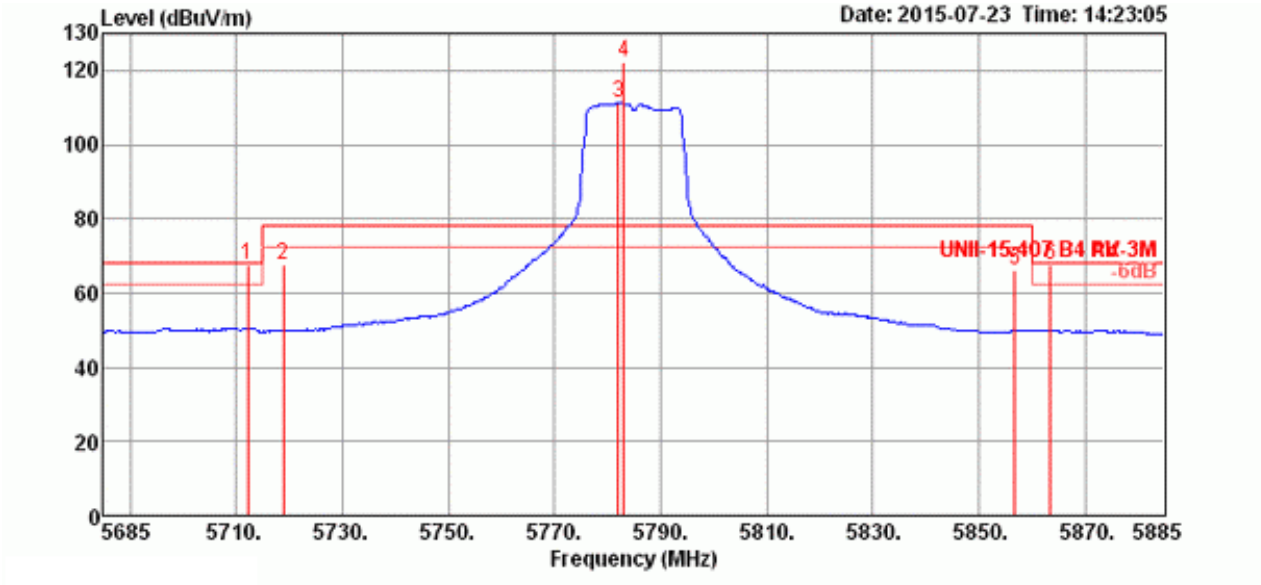
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5713.59	66.70	68.20	-1.50	58.58	6.83	34.42	33.13	174	296	Peak	HORIZONTAL
2	5724.81	77.59	78.20	-0.61	69.46	6.83	34.43	33.13	174	296	Peak	HORIZONTAL
3	5739.55	107.13			98.97	6.86	34.44	33.14	174	296	Average	HORIZONTAL
4	5740.51	117.58			109.42	6.86	34.44	33.14	174	296	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

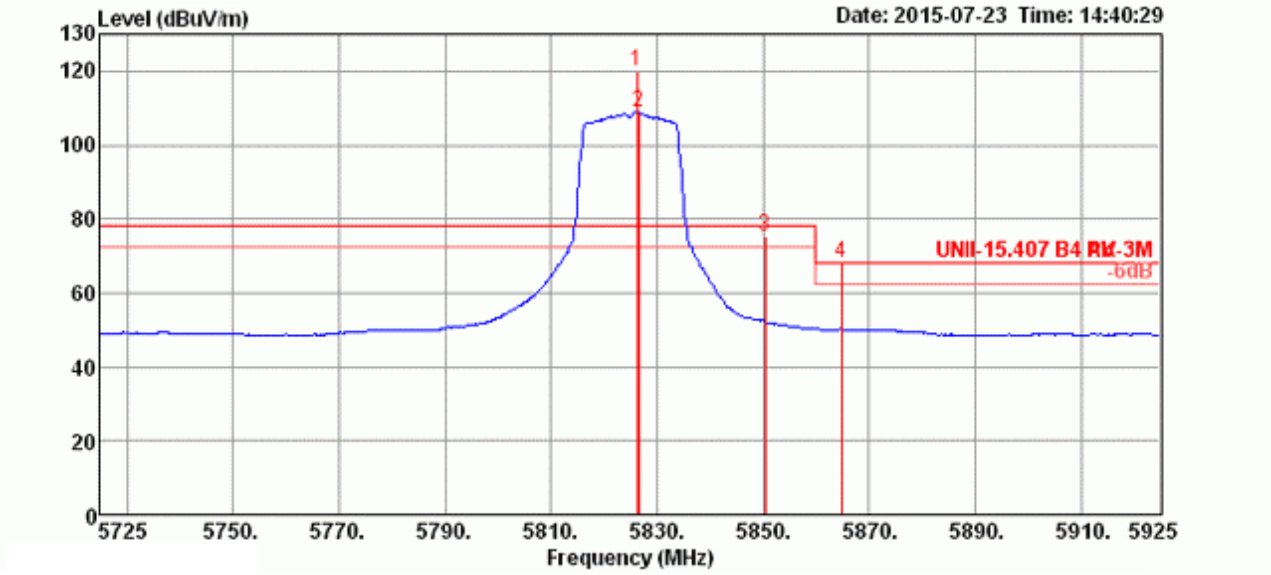
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5712.24	67.68	68.20	-0.52	59.56	6.83	34.42	33.13	164	293	Peak	HORIZONTAL
2	5718.97	67.86	78.20	-10.34	59.73	6.83	34.43	33.13	164	293	Peak	HORIZONTAL
3	5782.12	111.16			102.95	6.90	34.47	33.16	164	293	Average	HORIZONTAL
4	5783.08	122.30			114.09	6.90	34.47	33.16	164	293	Peak	HORIZONTAL
5	5856.80	66.40	78.20	-11.80	58.10	6.95	34.52	33.17	164	293	Peak	HORIZONTAL
6	5863.53	67.43	68.20	-0.77	59.12	6.97	34.52	33.18	164	293	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

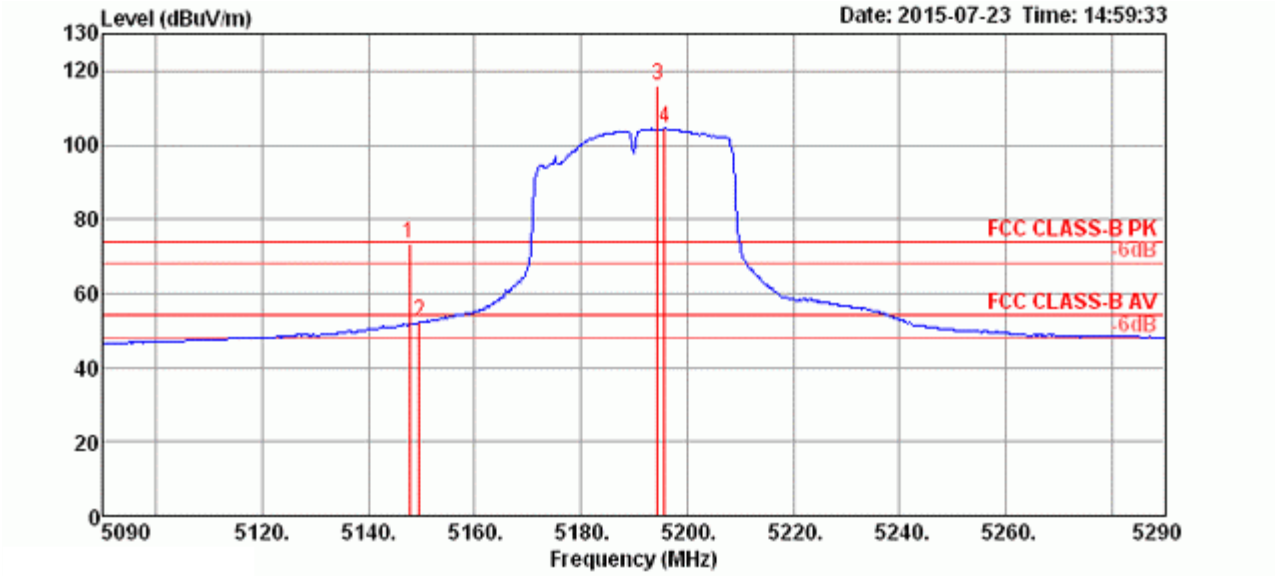


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5826.28	119.90			111.64	6.92	34.50	33.16	169	292	Peak	HORIZONTAL
2	5826.60	108.70			100.44	6.92	34.50	33.16	169	292	Average	HORIZONTAL
3	5850.32	75.15	78.20	-3.05	66.86	6.95	34.51	33.17	169	292	Peak	HORIZONTAL
4	5864.74	68.03	68.20	-0.17	59.72	6.97	34.52	33.18	169	292	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 CH 38, 46 / Chain 4 + Chain 5 + Chain 6

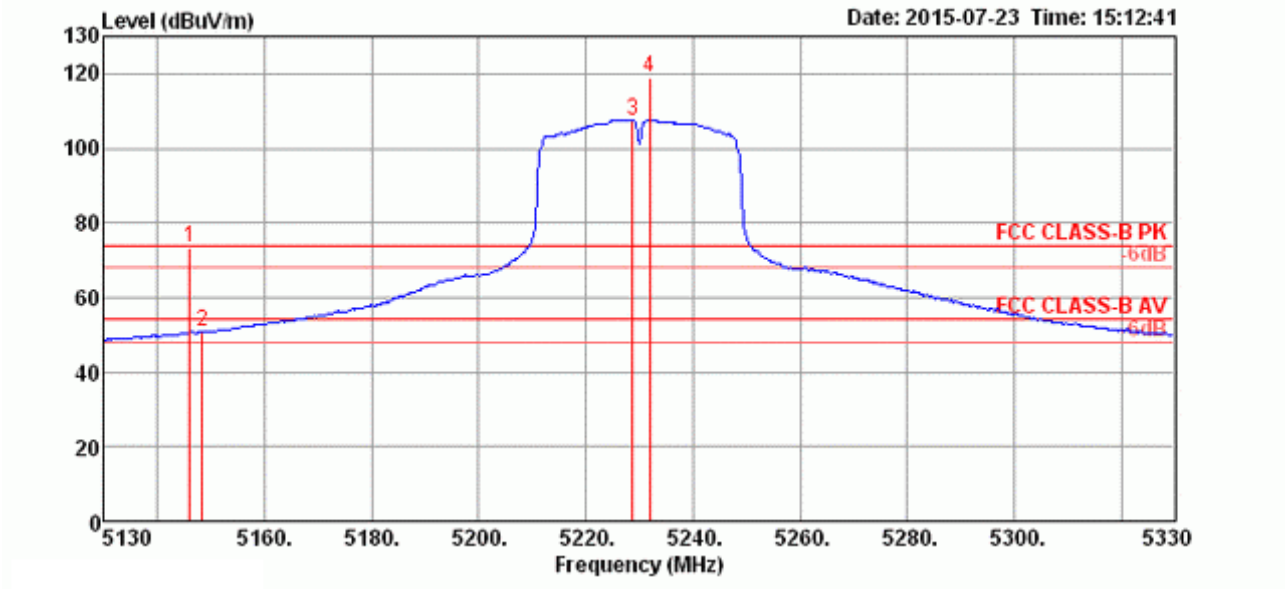
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.69	73.57	74.00	-0.43	66.67	6.21	33.74	33.05	148	298	Peak	HORIZONTAL
2	5149.62	52.07	54.00	-1.93	45.17	6.21	33.74	33.05	148	298	Average	HORIZONTAL
3	5194.49	115.93			108.92	6.24	33.82	33.05	148	298	Peak	HORIZONTAL
4	5195.77	104.44			97.40	6.27	33.82	33.05	148	298	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

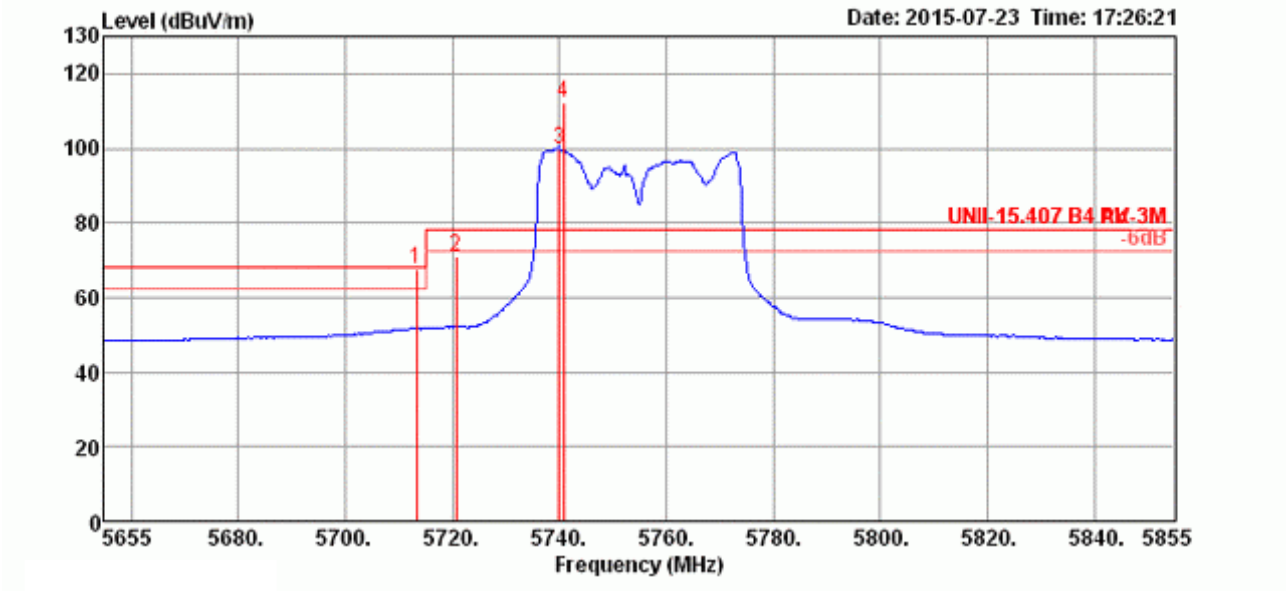


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.03	73.37	74.00	-0.63	66.47	6.21	33.74	33.05	186	294	Peak	HORIZONTAL
2	5148.27	50.64	54.00	-3.36	43.74	6.21	33.74	33.05	186	294	Average	HORIZONTAL
3	5228.72	107.64			100.52	6.30	33.87	33.05	186	294	Average	HORIZONTAL
4	5231.92	119.18			112.06	6.30	33.87	33.05	186	294	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT40 CH 151, 159 / Chain 4 + Chain 5 + Chain 6

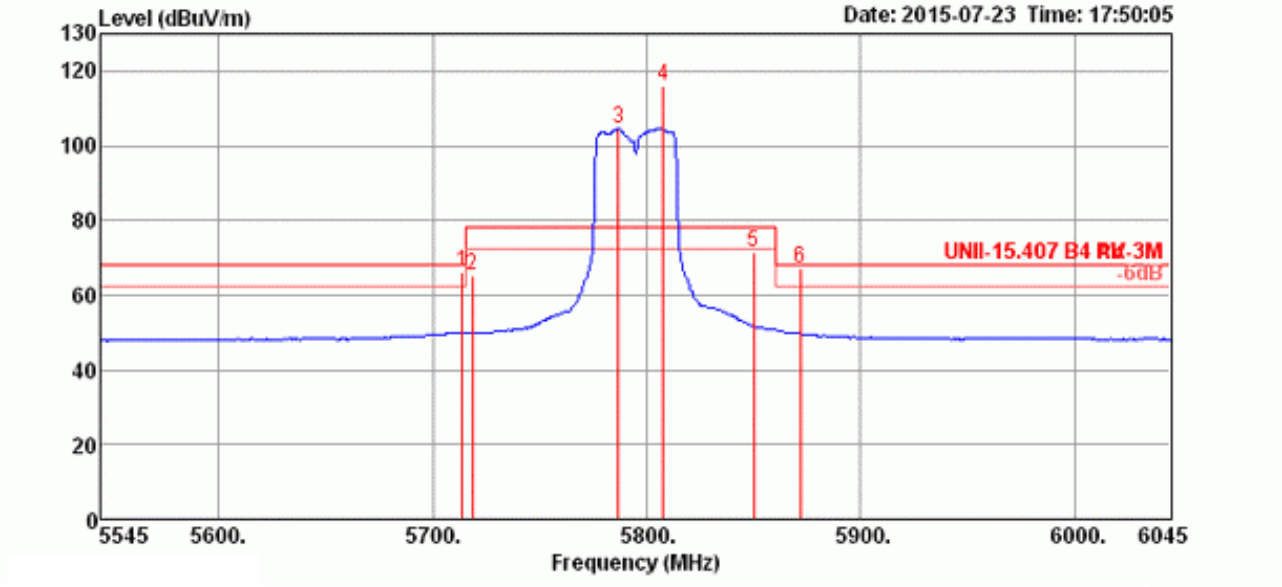
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5713.33	67.44	68.20	-0.76	59.32	6.83	34.42	33.13	183	299	Peak	HORIZONTAL
2	5720.71	70.81	78.20	-7.39	62.68	6.83	34.43	33.13	183	299	Peak	HORIZONTAL
3	5739.94	99.71			91.55	6.86	34.44	33.14	183	299	Average	HORIZONTAL
4	5740.90	112.43			104.27	6.86	34.44	33.14	183	299	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

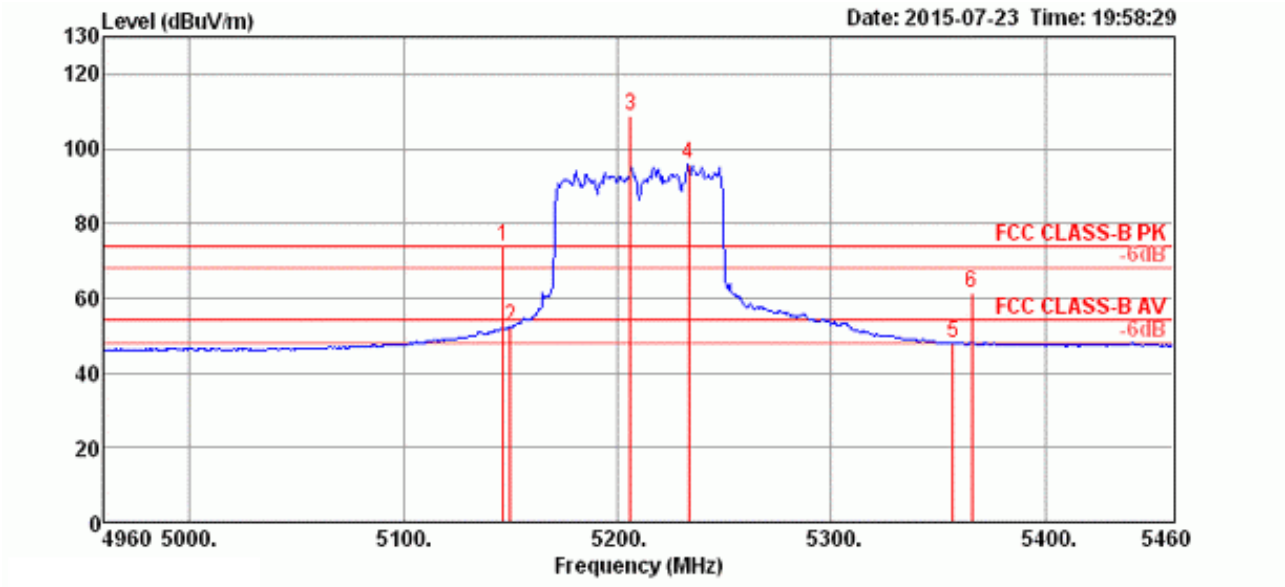


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5714.07	66.25	68.20	-1.95	58.13	6.83	34.42	33.13	184	299	Peak	HORIZONTAL
2	5718.59	65.33	78.20	-12.87	57.20	6.83	34.43	33.13	184	299	Peak	HORIZONTAL
3	5786.99	104.74			96.52	6.90	34.48	33.16	184	299	Average	HORIZONTAL
4	5807.82	115.85			107.60	6.92	34.49	33.16	184	299	Peak	HORIZONTAL
5	5850.00	71.34	78.20	-6.86	63.05	6.95	34.51	33.17	184	299	Peak	HORIZONTAL
6	5871.92	67.36	68.20	-0.84	59.04	6.97	34.53	33.18	184	299	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss2 VHT80 CH 42, 155 / Chain 4 + Chain 5 + Chain 6

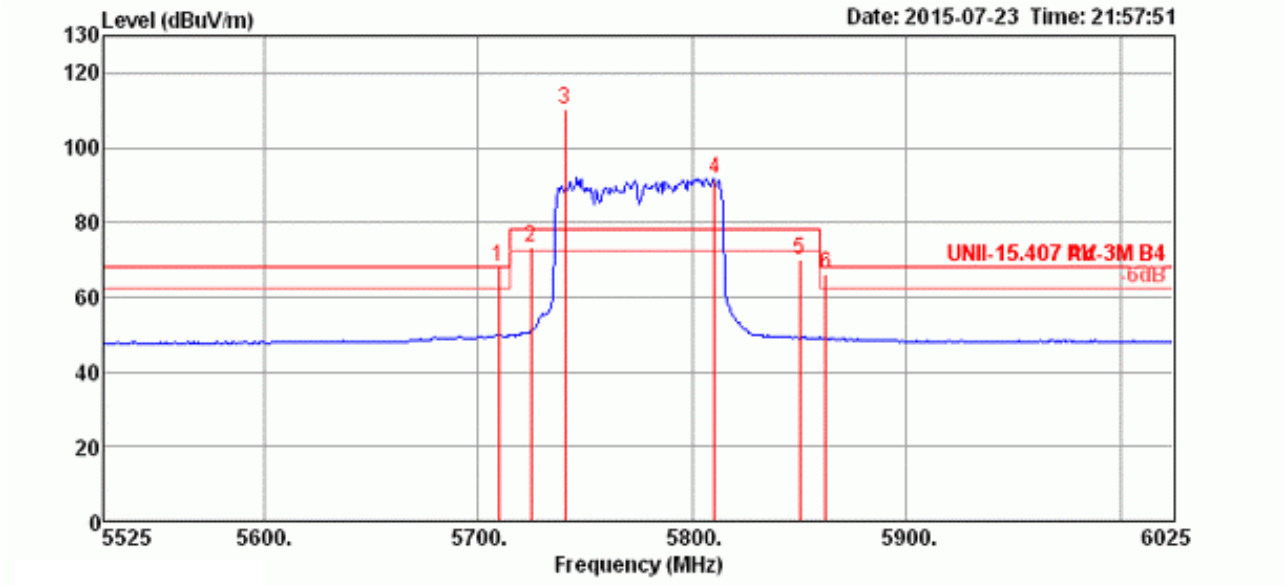
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.70	73.81	74.00	-0.19	66.91	6.21	33.74	33.05	175	277	Peak	HORIZONTAL
2	5150.00	52.39	54.00	-1.61	45.49	6.21	33.74	33.05	175	277	Average	HORIZONTAL
3	5205.99	108.85			101.81	6.27	33.82	33.05	175	277	Peak	HORIZONTAL
4	5233.24	95.78			88.66	6.30	33.87	33.05	175	277	Average	HORIZONTAL
5	5356.64	48.14	54.00	-5.86	40.67	6.47	34.06	33.06	175	277	Average	HORIZONTAL
6	5365.45	61.28	74.00	-12.72	53.78	6.47	34.09	33.06	175	277	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5709.30	68.10	68.20	-0.10	59.98	6.83	34.42	33.13	197	303	Peak	HORIZONTAL
2	5724.52	73.39	78.20	-4.81	65.26	6.83	34.43	33.13	197	303	Peak	HORIZONTAL
3	5740.55	110.54			102.38	6.86	34.44	33.14	197	303	Peak	HORIZONTAL
4	5810.26	91.85			83.60	6.92	34.49	33.16	197	303	Average	HORIZONTAL
5	5850.00	69.99	78.20	-8.21	61.70	6.95	34.51	33.17	197	303	Peak	HORIZONTAL
6	5862.34	66.06	68.20	-2.14	57.75	6.97	34.52	33.18	197	303	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note:

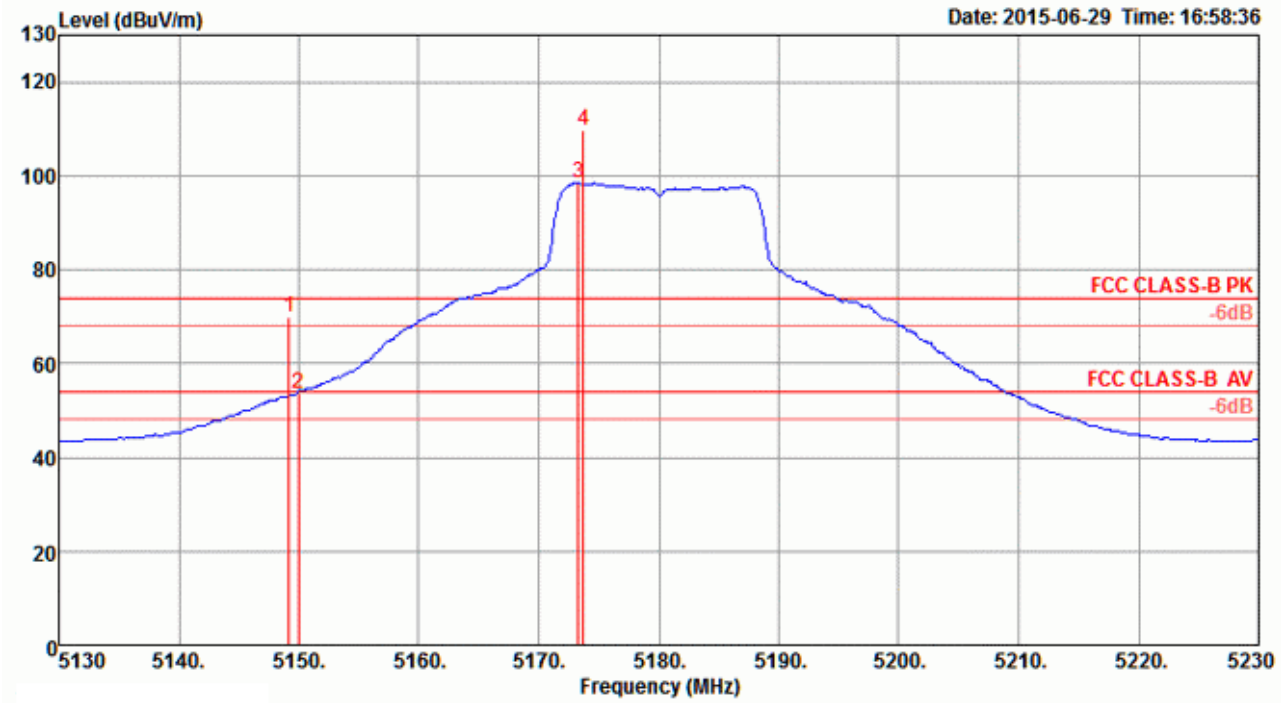
Emission level (dBuV/m) = 20 log Emission level (uV/m)

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

<For Radio 3>

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 36, 40, 48 / Chain 7

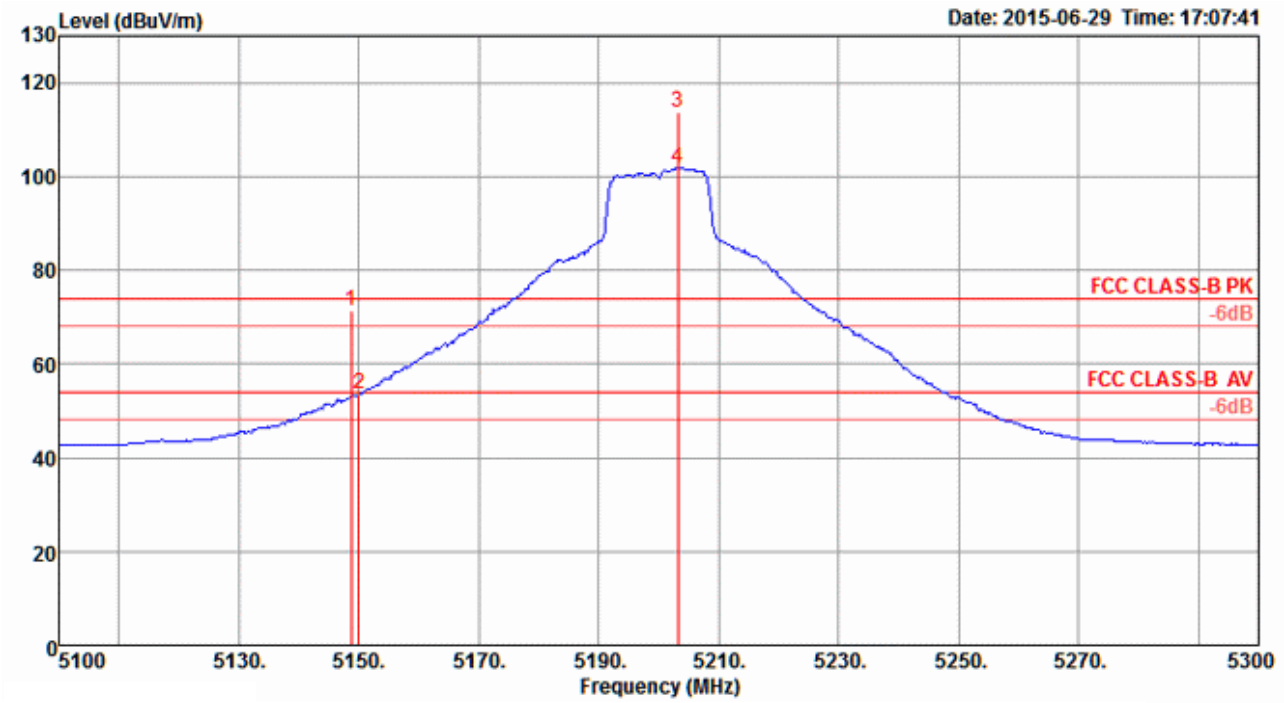
Channel 36



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5149.20	69.90	74.00	-4.10	66.84	4.26	33.27	34.47	179	144	Peak	VERTICAL
2	5150.00	53.60	54.00	-0.40	50.54	4.26	33.27	34.47	179	144	Average	VERTICAL
3	5173.27	98.48			95.39	4.26	33.30	34.47	179	144	Average	VERTICAL
4	5173.75	109.82			106.69	4.27	33.33	34.47	179	144	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

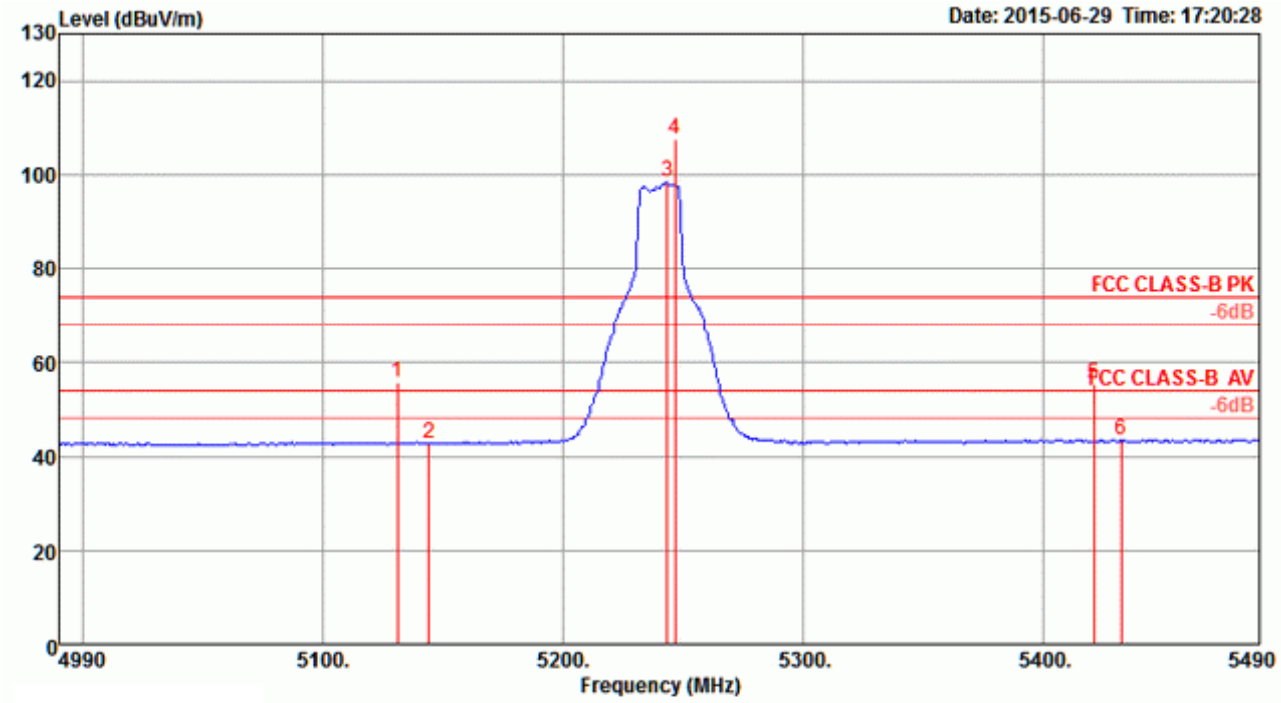
Channel 40



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5148.72	71.21	74.00	-2.79	68.15	4.26	33.27	34.47	177	164	Peak	VERTICAL
2	5150.00	53.64	54.00	-0.36	50.58	4.26	33.27	34.47	177	164	Average	VERTICAL
3	5203.21	113.60			110.43	4.28	33.36	34.47	177	164	Peak	VERTICAL
4	5203.21	101.81			98.64	4.28	33.36	34.47	177	164	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

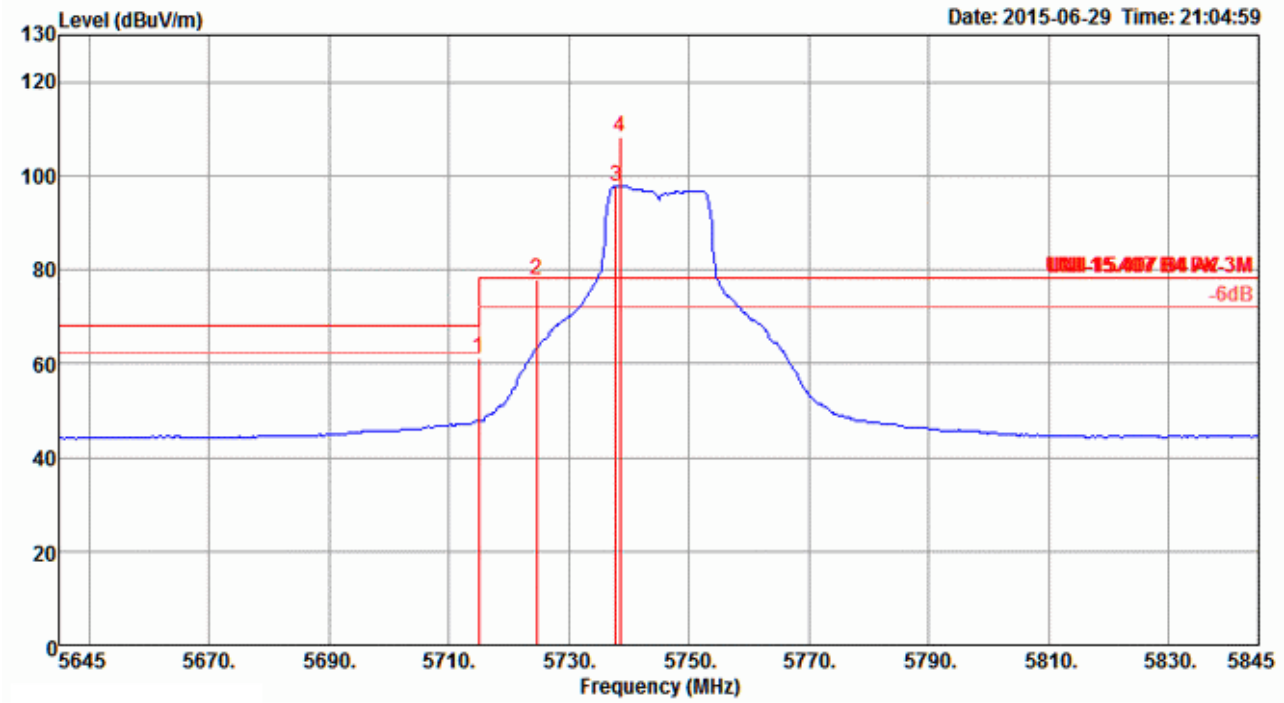


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5131.03	55.91	74.00	-18.09	52.89	4.25	33.24	34.47	178	155	Peak	VERTICAL
2	5144.17	42.90	54.00	-11.10	39.84	4.26	33.27	34.47	178	155	Average	VERTICAL
3	5243.21	98.45			95.17	4.30	33.45	34.47	178	155	Average	VERTICAL
4	5246.41	107.39			104.11	4.30	33.45	34.47	178	155	Peak	VERTICAL
5	5421.09	55.24	74.00	-18.76	51.58	4.38	33.75	34.47	178	155	Peak	VERTICAL
6	5432.31	43.54	54.00	-10.46	39.84	4.39	33.78	34.47	178	155	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11a CH 149, 157, 165 / Chain 7

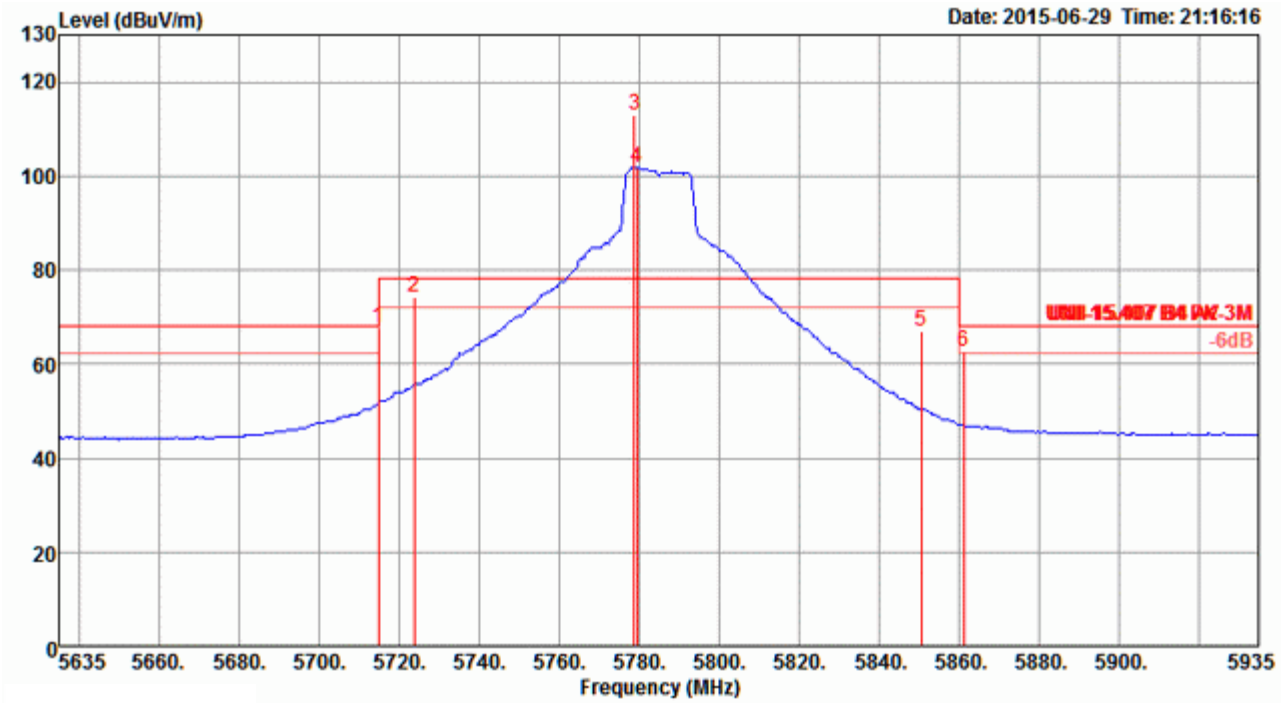
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5715.00	61.19	68.20	-7.01	56.69	4.49	34.52	34.51	130	125	Peak	VERTICAL
2	5724.60	77.81	78.20	-0.39	73.25	4.50	34.57	34.51	130	125	Peak	VERTICAL
3	5737.80	97.85			93.25	4.50	34.62	34.52	130	125	Average	VERTICAL
4	5738.60	108.44			103.84	4.50	34.62	34.52	130	125	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

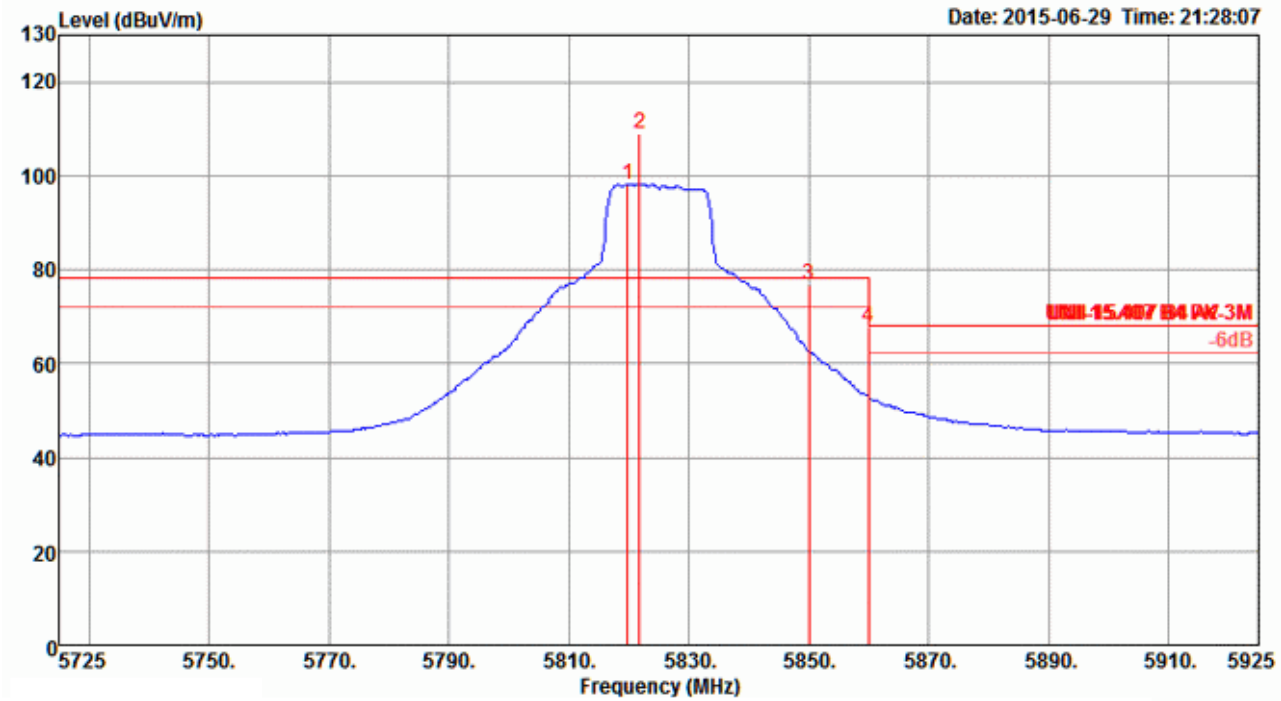
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5715.00	67.85	68.20	-0.35	63.35	4.49	34.52	34.51	128	121	Peak	VERTICAL
2	5723.80	74.25	78.20	-3.95	69.69	4.50	34.57	34.51	128	121	Peak	VERTICAL
3	5779.00	112.80			108.08	4.52	34.73	34.53	128	121	Peak	VERTICAL
4	5779.60	101.79			97.07	4.52	34.73	34.53	128	121	Average	VERTICAL
5	5850.60	67.09	78.20	-11.11	62.16	4.54	34.93	34.54	128	121	Peak	VERTICAL
6	5861.20	62.82	68.20	-5.38	57.82	4.55	34.99	34.54	128	121	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

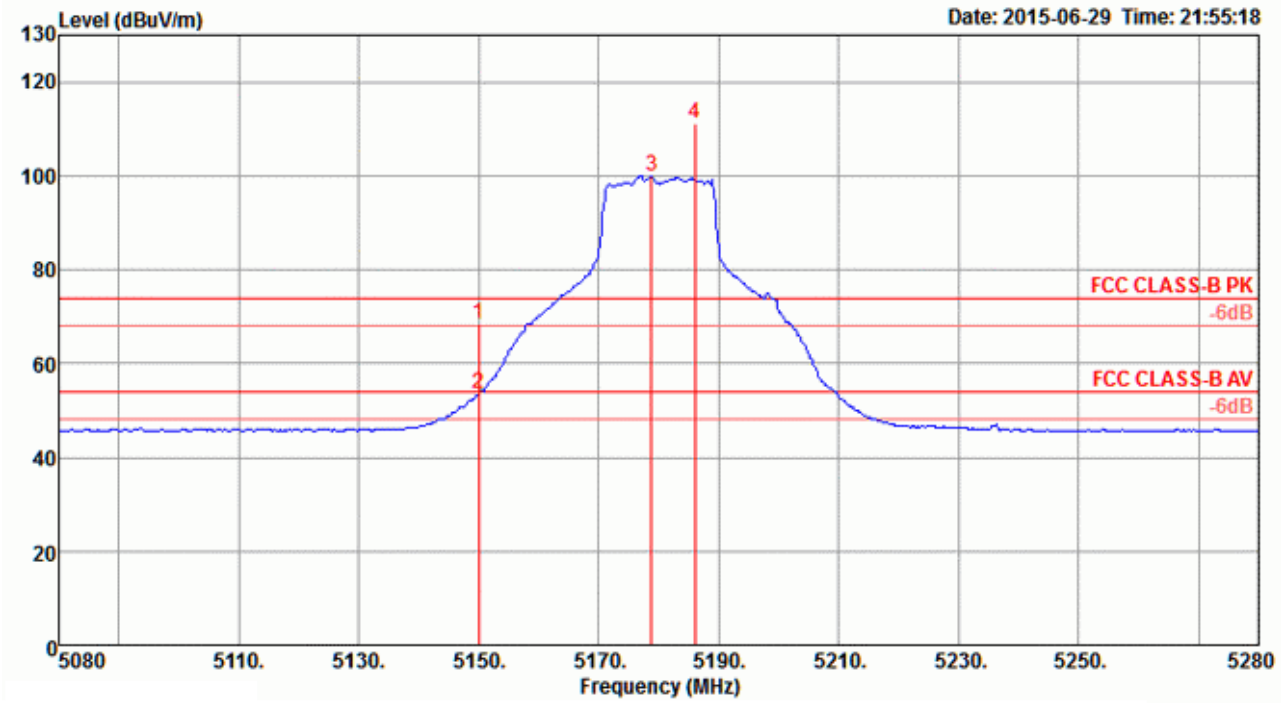


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5819.80	98.25			93.37	4.53	34.88	34.53	161	100	Average	VERTICAL
2	5821.80	109.13			104.25	4.53	34.88	34.53	161	100	Peak	VERTICAL
3	5850.00	76.70	78.20	-1.50	71.77	4.54	34.93	34.54	161	100	Peak	VERTICAL
4	5860.00	67.82	68.20	-0.38	62.82	4.55	34.99	34.54	161	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 36, 40, 48 / Chain 7

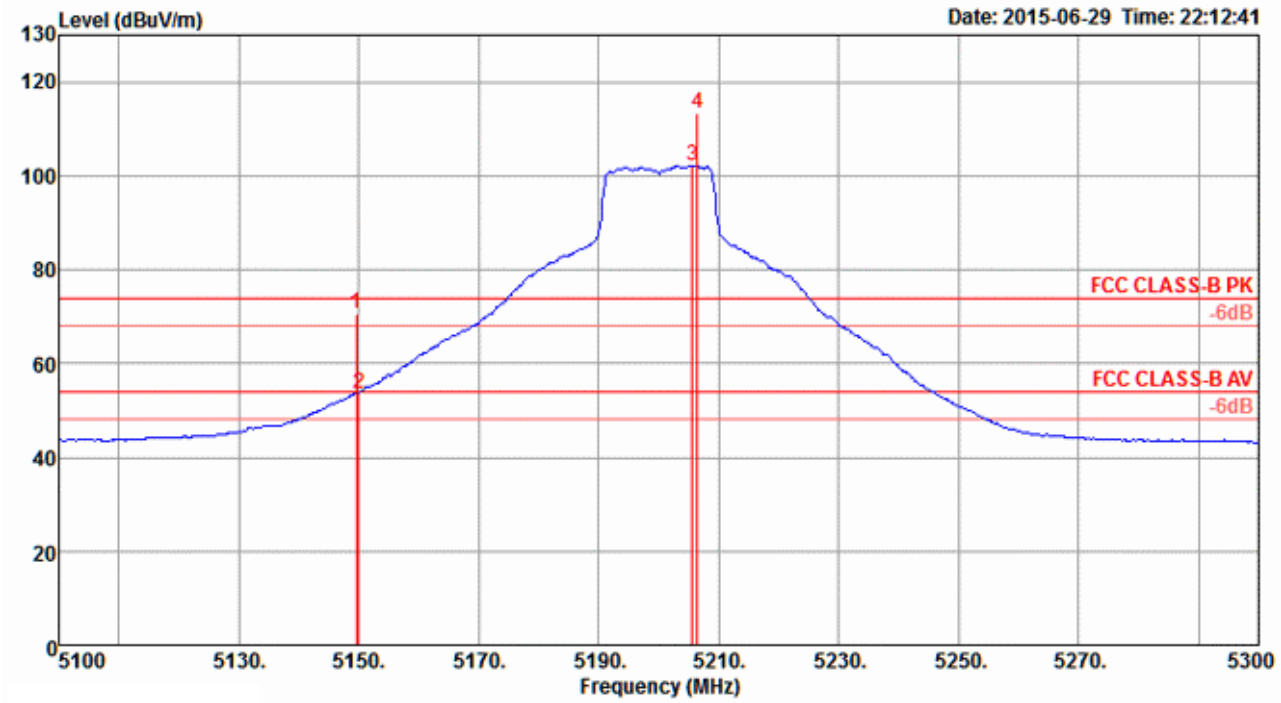
Channel 36



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5150.00	68.54	74.00	-5.46	65.48	4.26	33.27	34.47	198	208	Peak	VERTICAL
2	5150.00	53.65	54.00	-0.35	50.59	4.26	33.27	34.47	198	208	Average	VERTICAL
3	5178.80	99.91			96.78	4.27	33.33	34.47	198	208	Average	VERTICAL
4	5186.00	111.26			108.13	4.27	33.33	34.47	198	208	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5180 MHz.

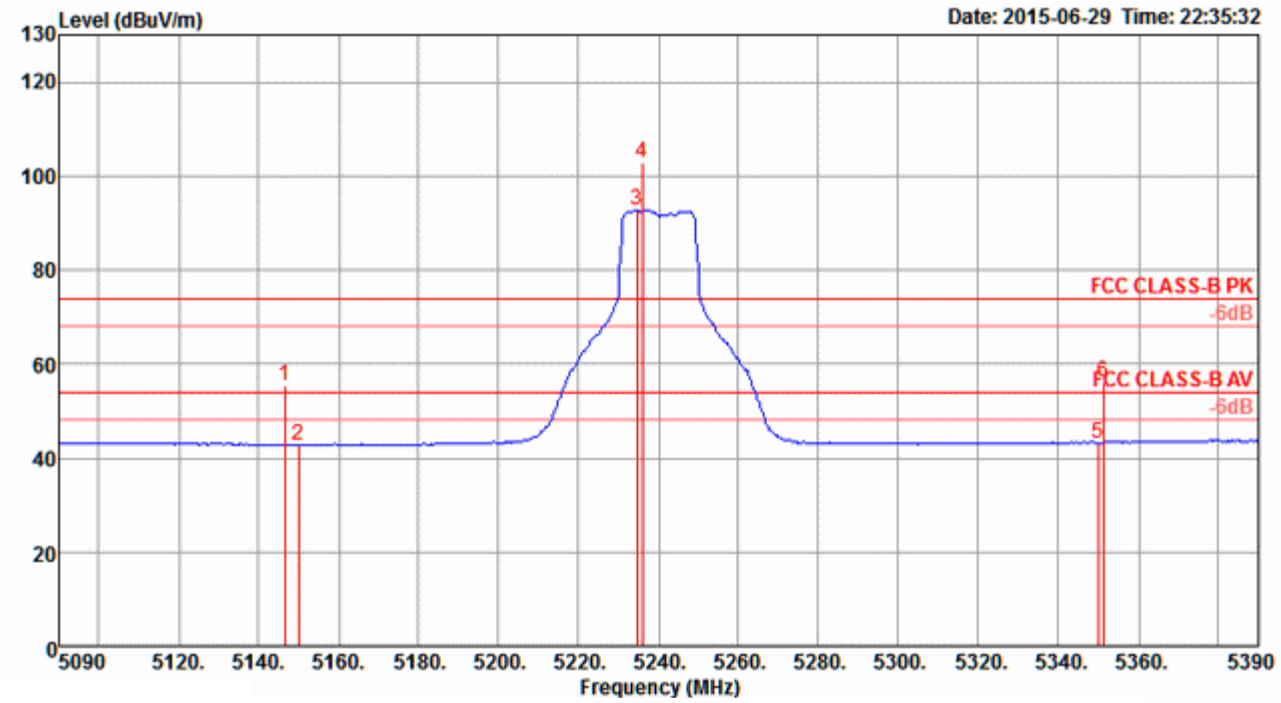
Channel 40



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5149.60	70.54	74.00	-3.46	67.48	4.26	33.27	34.47	186	166	Peak	VERTICAL
2	5150.00	53.70	54.00	-0.30	50.64	4.26	33.27	34.47	186	166	Average	VERTICAL
3	5205.60	102.25			99.08	4.28	33.36	34.47	186	166	Average	VERTICAL
4	5206.40	113.38			110.21	4.28	33.36	34.47	186	166	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5200 MHz.

Channel 48

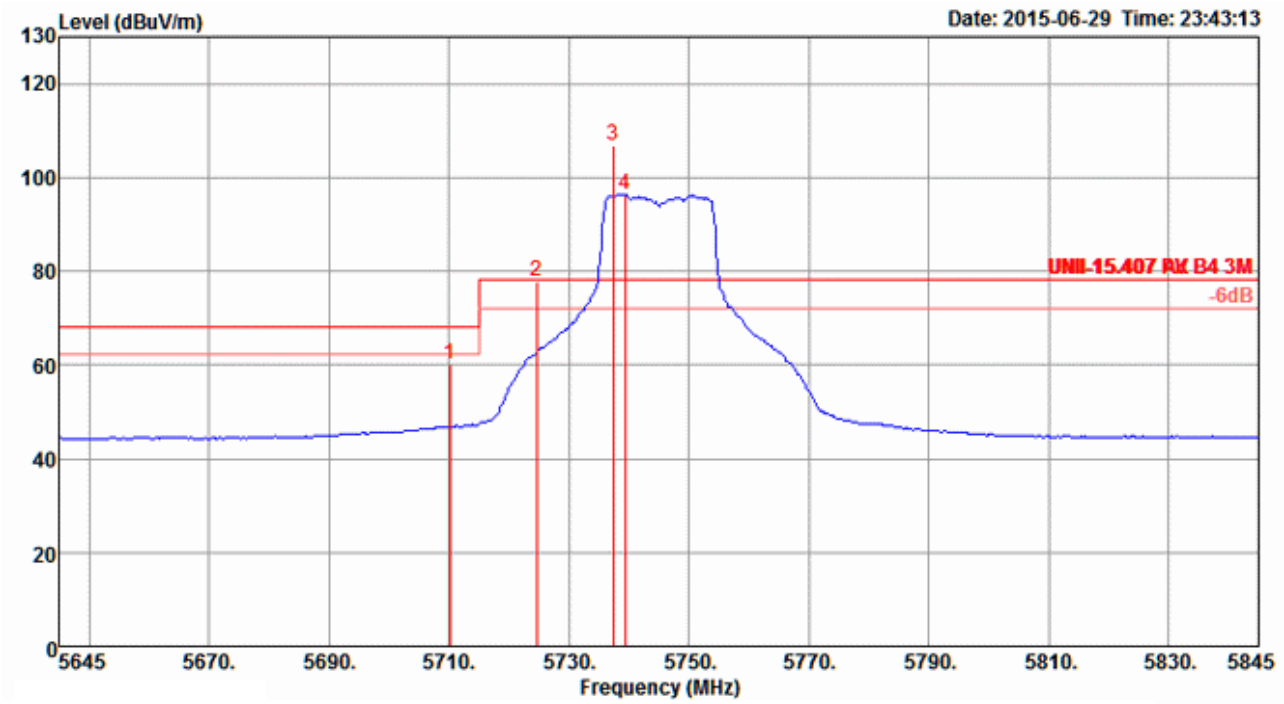


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5146.40	55.40	74.00	-18.60	52.34	4.26	33.27	34.47	235	218	Peak	HORIZONTAL
2	5150.00	42.64	54.00	-11.36	39.58	4.26	33.27	34.47	235	218	Average	HORIZONTAL
3	5234.60	92.73			89.48	4.30	33.42	34.47	235	218	Average	HORIZONTAL
4	5235.80	102.96			99.71	4.30	33.42	34.47	235	218	Peak	HORIZONTAL
5	5350.00	43.25	54.00	-10.75	39.74	4.35	33.63	34.47	235	218	Average	HORIZONTAL
6	5351.20	56.07	74.00	-17.93	52.56	4.35	33.63	34.47	235	218	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 5240 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 7

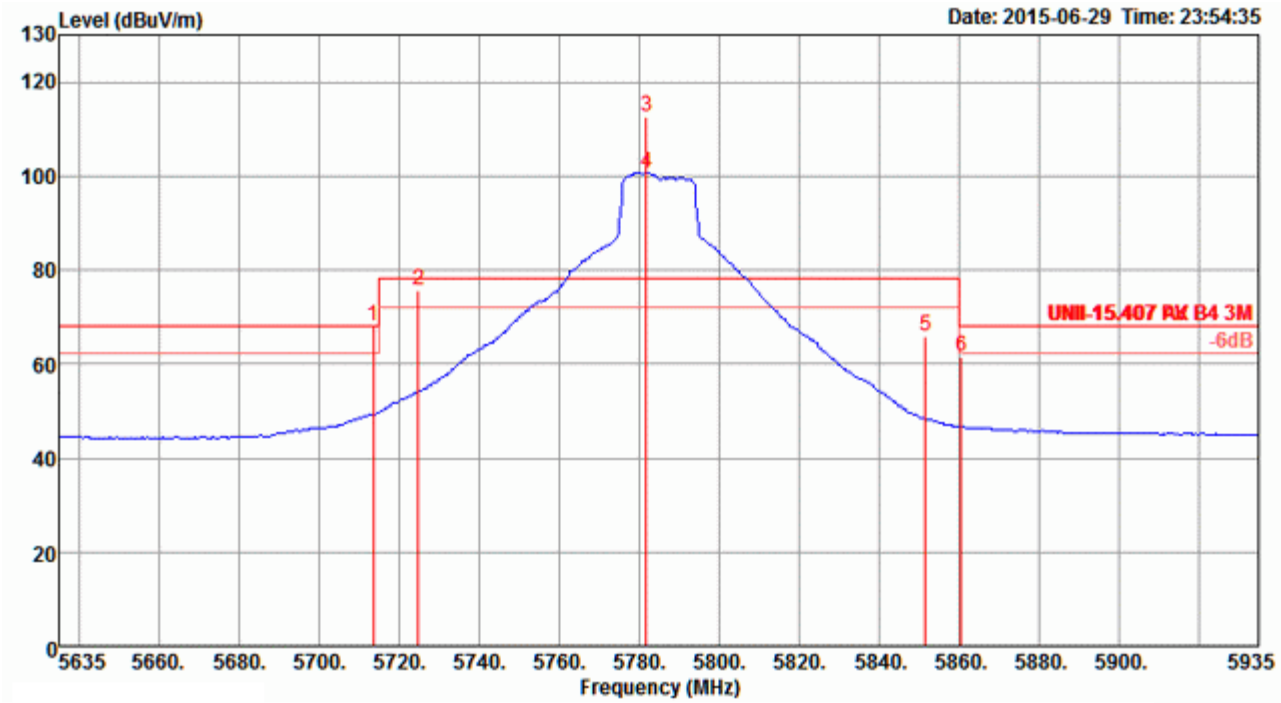
Channel 149



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5710.20	59.98	68.20	-8.22	55.48	4.49	34.52	34.51	125	126	Peak	VERTICAL
2	5724.60	77.84	78.20	-0.36	73.28	4.50	34.57	34.51	125	126	Peak	VERTICAL
3	5737.40	106.85			102.25	4.50	34.62	34.52	125	126	Peak	VERTICAL
4	5739.40	96.36			91.76	4.50	34.62	34.52	125	126	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

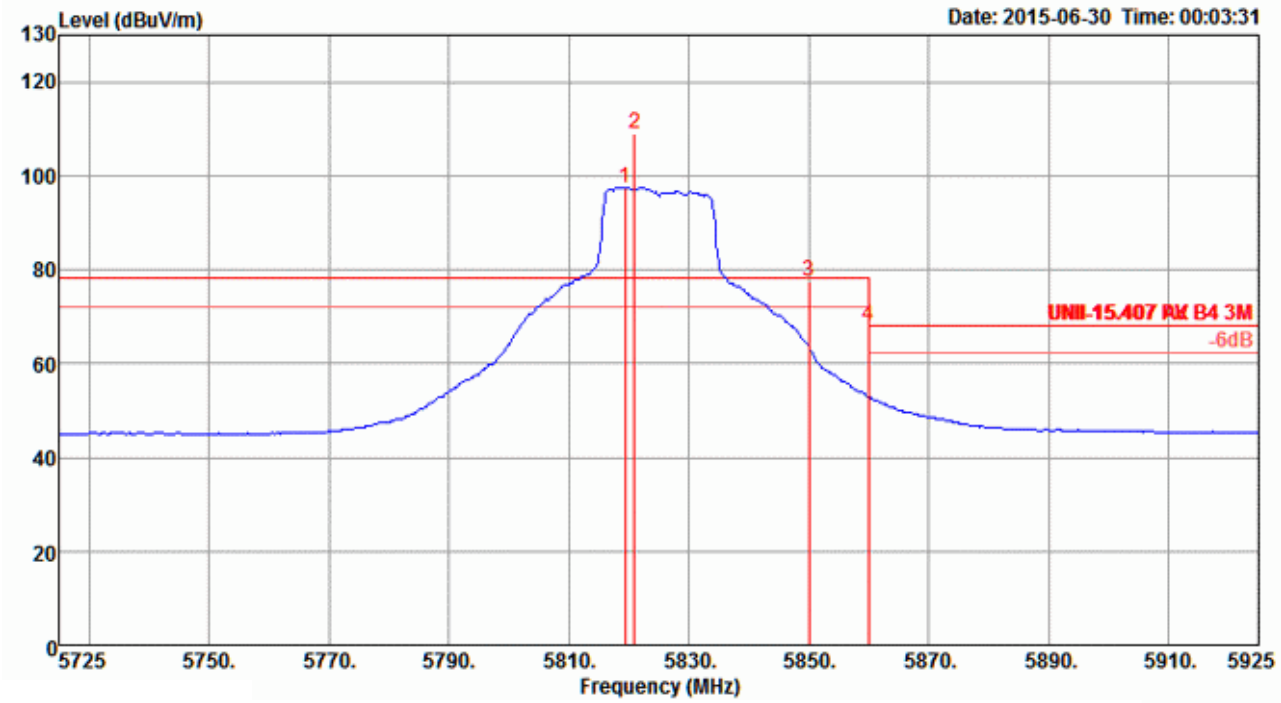
Channel 157



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5713.60	68.14	68.20	-0.06	63.64	4.49	34.52	34.51	124	127	Peak	VERTICAL
2	5725.00	75.52	78.20	-2.68	70.96	4.50	34.57	34.51	124	127	Peak	VERTICAL
3	5782.00	112.59			107.87	4.52	34.73	34.53	124	127	Peak	VERTICAL
4	5782.00	100.68			95.96	4.52	34.73	34.53	124	127	Average	VERTICAL
5	5851.60	65.80	78.20	-12.40	60.87	4.54	34.93	34.54	124	127	Peak	VERTICAL
6	5860.60	61.61	68.20	-6.59	56.61	4.55	34.99	34.54	124	127	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5785 MHz.

Channel 165

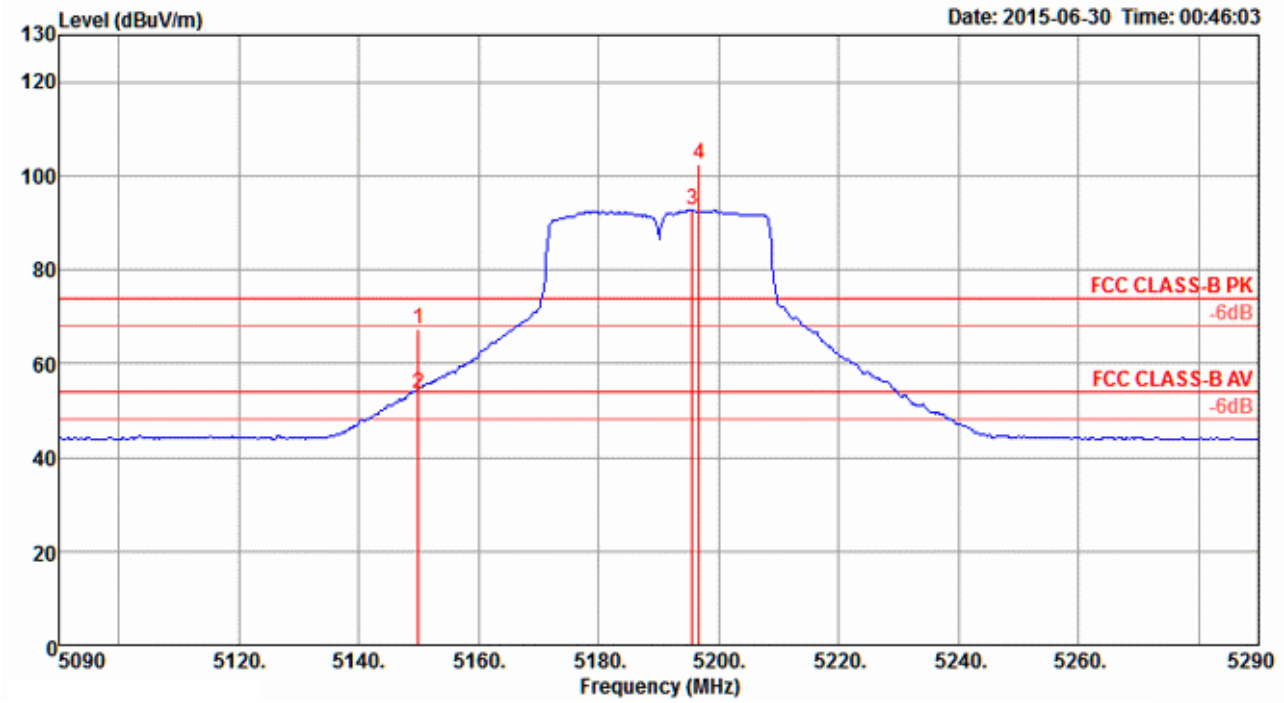


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5819.40	97.46			92.63	4.53	34.83	34.53	126	100	Average	VERTICAL
2	5821.00	108.96			104.08	4.53	34.88	34.53	126	100	Peak	VERTICAL
3	5850.00	77.54	78.20	-0.66	72.61	4.54	34.93	34.54	126	100	Peak	VERTICAL
4	5860.00	67.94	68.20	-0.26	62.94	4.55	34.99	34.54	126	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5825 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 7

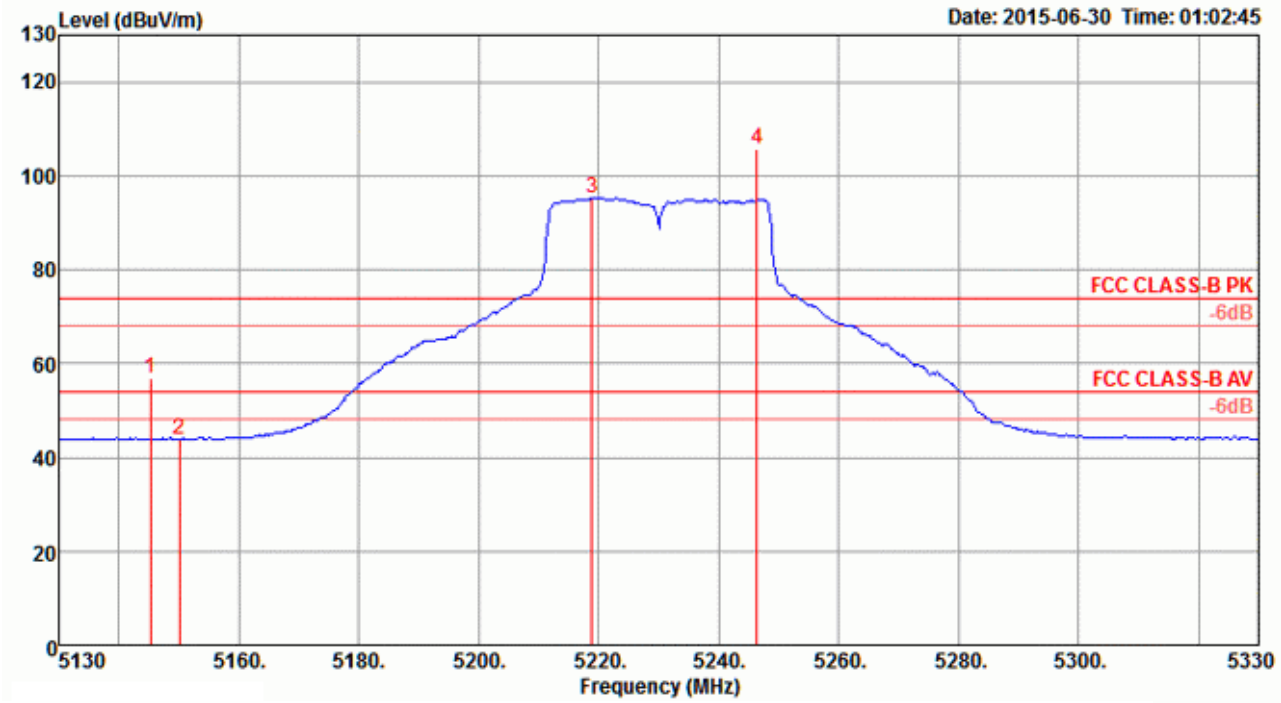
Channel 38



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5150.00	67.47	74.00	-6.53	64.41	4.26	33.27	34.47	197	208	Peak	VERTICAL
2	5150.00	53.67	54.00	-0.33	50.61	4.26	33.27	34.47	197	208	Average	VERTICAL
3	5195.60	92.65			89.48	4.28	33.36	34.47	197	208	Average	VERTICAL
4	5196.80	102.31			99.14	4.28	33.36	34.47	197	208	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5190 MHz.

Channel 46

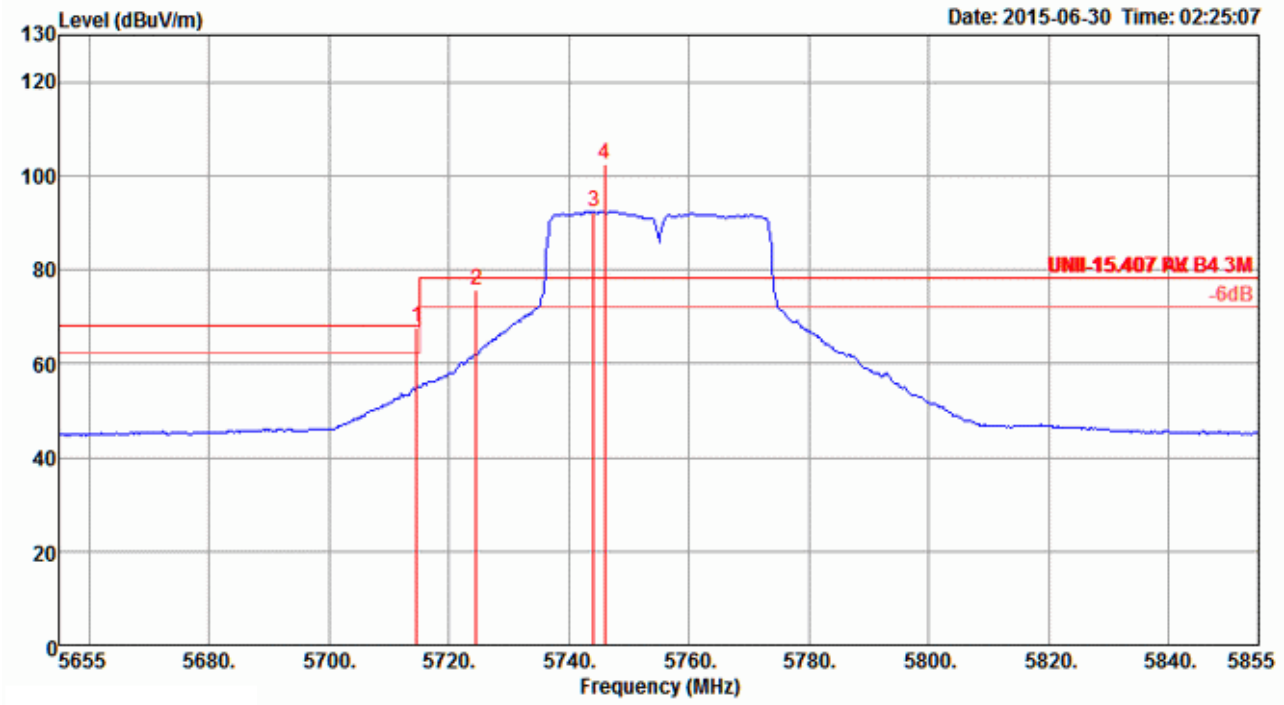


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5145.20	56.81	74.00	-17.19	53.75	4.26	33.27	34.47	186	203	Peak	VERTICAL
2	5150.00	43.80	54.00	-10.20	40.74	4.26	33.27	34.47	186	203	Average	VERTICAL
3	5218.80	95.21			92.00	4.29	33.39	34.47	186	203	Average	VERTICAL
4	5246.40	105.76			102.48	4.30	33.45	34.47	186	203	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5230 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 7

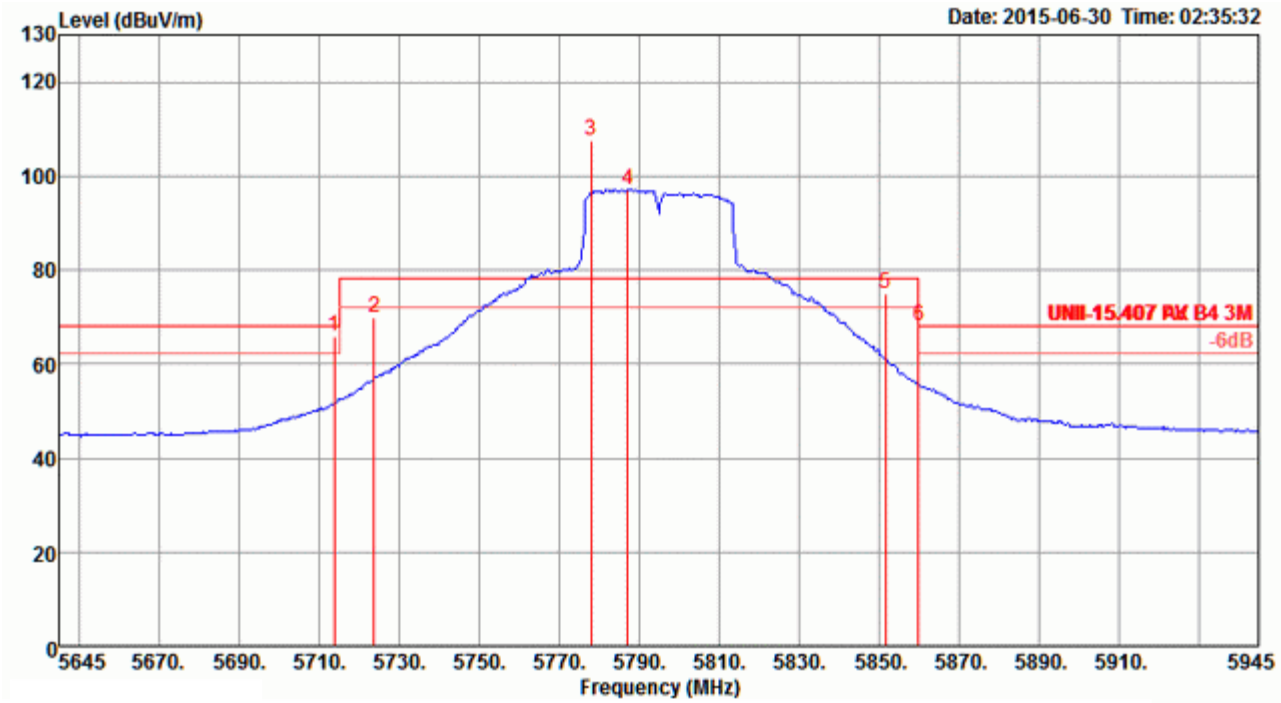
Channel 151



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5714.62	67.76	68.20	-0.44	63.26	4.49	34.52	34.51	127	117	Peak	VERTICAL
2	5724.55	75.60	78.20	-2.60	71.04	4.50	34.57	34.51	127	117	Peak	VERTICAL
3	5744.10	92.41			87.81	4.50	34.62	34.52	127	117	Average	VERTICAL
4	5746.03	102.47			97.87	4.50	34.62	34.52	127	117	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5755 MHz.

Channel 159

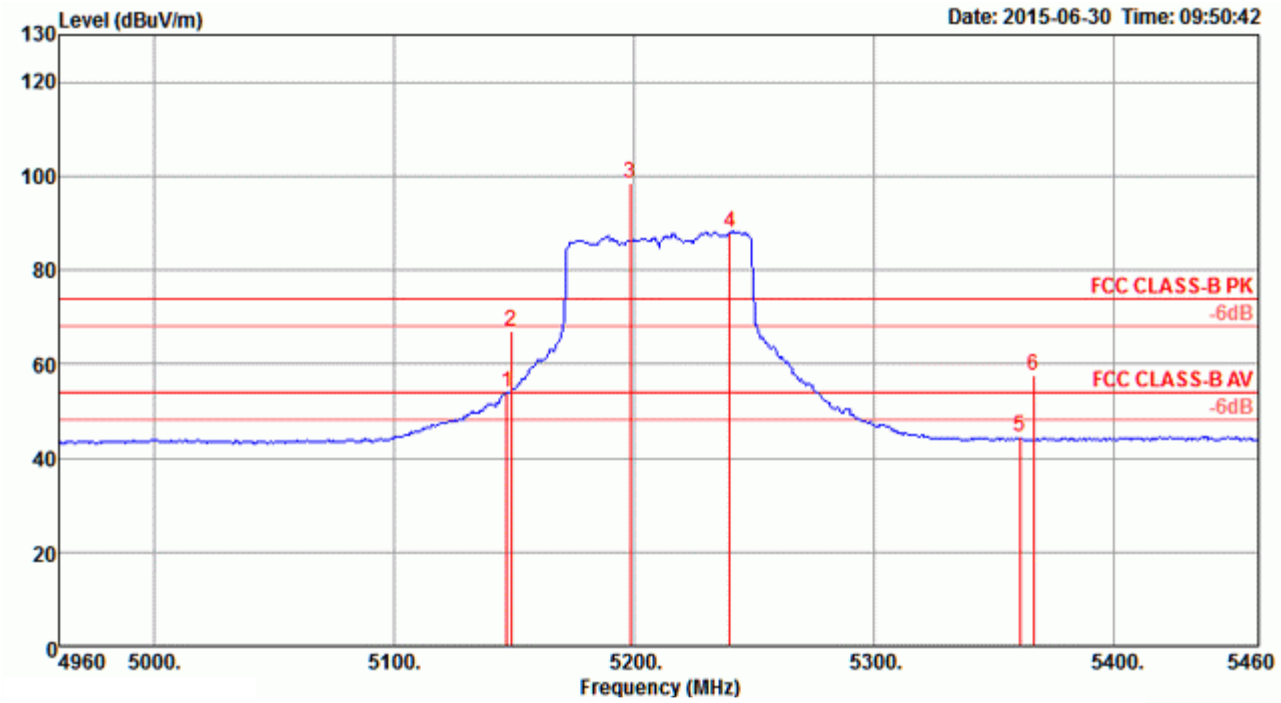


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5713.75	65.84	68.20	-2.36	61.34	4.49	34.52	34.51	126	136	Peak	VERTICAL
2	5723.85	69.95	78.20	-8.25	65.39	4.50	34.57	34.51	126	136	Peak	VERTICAL
3	5778.17	107.50			102.78	4.52	34.73	34.53	126	136	Peak	VERTICAL
4	5787.31	97.08			92.31	4.52	34.78	34.53	126	136	Average	VERTICAL
5	5851.73	74.78	78.20	-3.42	69.85	4.54	34.93	34.54	126	136	Peak	VERTICAL
6	5860.00	68.07	68.20	-0.13	63.07	4.55	34.99	34.54	126	136	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5795 MHz.

Temperature	22℃	Humidity	55%
Test Engineer	Stim Sung	Configurations	IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 7

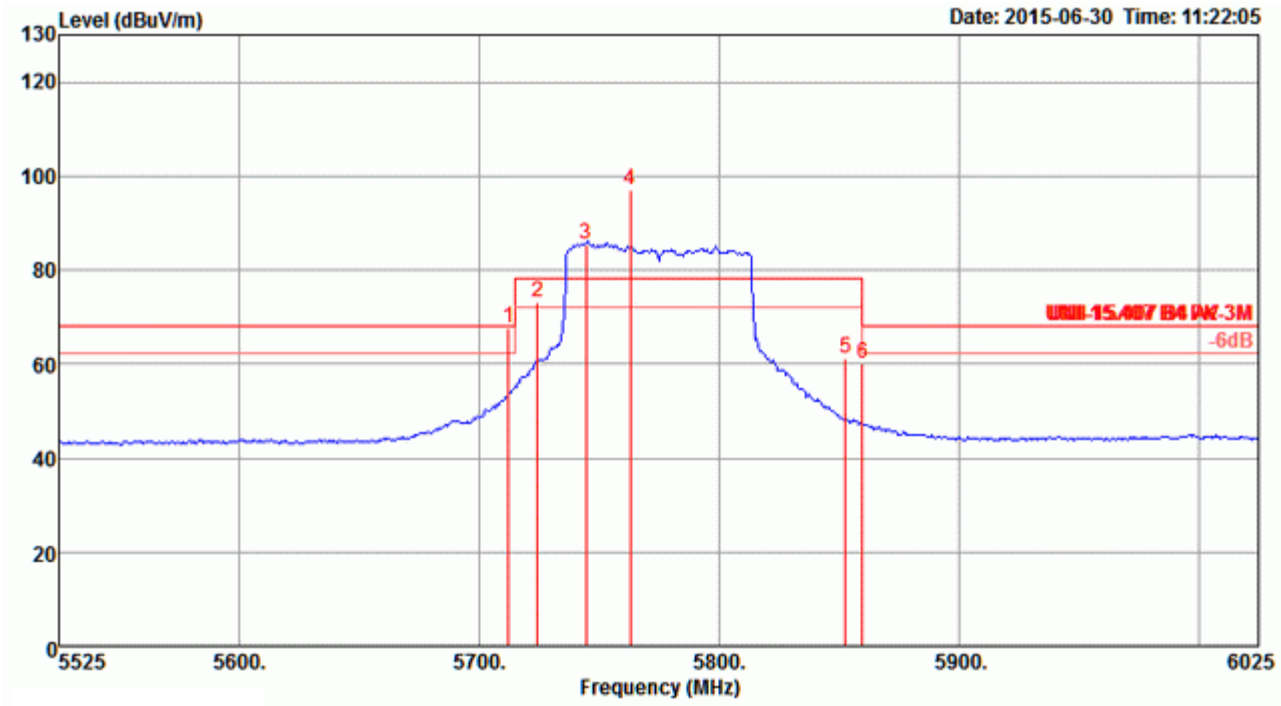
Channel 42



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5146.70	53.78	54.00	-0.22	50.72	4.26	33.27	34.47	167	156	Average	VERTICAL
2	5148.30	66.89	74.00	-7.11	63.83	4.26	33.27	34.47	167	156	Peak	VERTICAL
3	5197.98	98.67			95.50	4.28	33.36	34.47	167	156	Peak	VERTICAL
4	5239.65	88.08			84.83	4.30	33.42	34.47	167	156	Average	VERTICAL
5	5360.64	44.62	54.00	-9.38	41.07	4.36	33.66	34.47	167	156	Average	VERTICAL
6	5366.25	57.63	74.00	-16.37	54.08	4.36	33.66	34.47	167	156	Peak	VERTICAL

Item 4, 5 are the fundamental frequency at 5210 MHz.

Channel 155



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	5712.50	67.54	68.20	-0.66	63.04	4.49	34.52	34.51	153	100	Peak	HORIZONTAL
2	5724.52	73.13	78.20	-5.07	68.57	4.50	34.57	34.51	153	100	Peak	HORIZONTAL
3	5744.55	85.59	78.20	7.39	80.99	4.50	34.62	34.52	153	100	Average	HORIZONTAL
4	5762.98	97.22			92.56	4.51	34.68	34.53	153	100	Peak	HORIZONTAL
5	5852.72	61.38			56.45	4.54	34.93	34.54	153	100	Peak	HORIZONTAL
6	5860.00	60.03	68.20	-8.17	55.03	4.55	34.99	34.54	153	100	Peak	HORIZONTAL

Item 4, 5 are the fundamental frequency at 5775 MHz.

Note:

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

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

4.8. Frequency Stability Measurement

4.8.1. Limit

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

4.8.2. Measuring Instruments and Setting

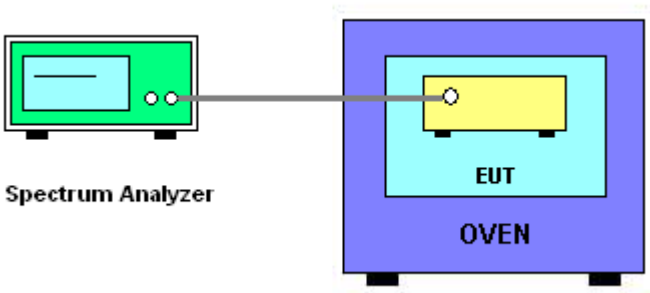
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 10^6 ppm and the limit is less than ±20ppm (IEEE 802.11nspecification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is -20°C~50°C.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

<For Radio 2>

Temperature	25℃	Humidity	55%
Test Engineer	Lucas Huang	Test Date	Jul. 11, 2015

Mode: 20 MHz

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)	
(V)	5200 MHz	5785 MHz
126.50	5199.9779	5784.9852
110.00	5199.9770	5784.9844
93.50	5199.9757	5784.9839
Max. Deviation (MHz)	0.024310	0.016060
Max. Deviation (ppm)	4.67	2.78

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)	
(℃)	5200 MHz	5785 MHz
-20	5199.9784	5784.9850
-10	5199.9780	5784.9847
0	5199.9777	5784.9846
10	5199.9774	5784.9846
20	5199.9770	5784.9844
30	5199.9766	5784.9843
40	5199.9762	5784.9842
50	5199.9760	5784.9843
Max. Deviation (MHz)	0.024038	0.015780
Max. Deviation (ppm)	4.62	2.73

Mode: 40 MHz

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)	
(V)	5190 MHz	5755 MHz
126.50	5189.9852	5754.9845
110.00	5189.9831	5754.9839
93.50	5189.9826	5754.9835
Max. Deviation (MHz)	0.017370	0.016500
Max. Deviation (ppm)	3.35	2.87

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)	
(℃)	5190 MHz	5755 MHz
-30	5189.9849	5754.9845
-20	5189.9842	5754.9842
-10	5189.9840	5754.9843
0	5189.9836	5754.9842
10	5189.9831	5754.9839
20	5189.9828	5754.9839
30	5189.9825	5754.9838
40	5189.9821	5754.9837
50	5189.9849	5754.9845
Max. Deviation (MHz)	0.017910	0.016340
Max. Deviation (ppm)	3.45	2.84

Mode: 80 MHz

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)	
(V)	5210 MHz	5775 MHz
126.50	5209.9796	5774.9835
110.00	5209.9787	5774.9831
93.50	5209.9783	5774.9828
Max. Deviation (MHz)	0.021710	0.017220
Max. Deviation (ppm)	4.17	2.98

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)	
(℃)	5210 MHz	5775 MHz
-30	5209.9800	5774.9836
-20	5209.9799	5774.9835
-10	5209.9795	5774.9832
0	5209.9789	5774.9833
10	5209.9787	5774.9831
20	5209.9782	5774.9828
30	5209.9878	5774.9829
40	5209.9874	5774.9827
50	5209.9800	5774.9836
Max. Deviation (MHz)	0.021769	0.017280
Max. Deviation (ppm)	4.18	2.99

<For Radio 3>

Temperature	25℃	Humidity	55%
Test Engineer	Clemens Fang	Test Date	Jul. 08, 2015

Mode: 20 MHz

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)	
(V)	5200 MHz	5785 MHz
126.50	5200.0040	5785.0048
110.00	5200.0039	5785.0043
93.50	5200.0038	5785.0039
Max. Deviation (MHz)	0.004040	0.004780
Max. Deviation (ppm)	0.78	0.83

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)	
(℃)	5200 MHz	5785 MHz
-20	5200.0042	5785.0046
-10	5200.0041	5785.0045
0	5200.0041	5785.0045
10	5200.0040	5785.0044
20	5200.0039	5785.0043
30	5200.0038	5785.0043
40	5200.0037	5785.0042
50	5200.0037	5785.0041
Max. Deviation (MHz)	0.004180	0.004630
Max. Deviation (ppm)	0.80	0.80

Mode: 40 MHz

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)	
(V)	5190 MHz	5755 MHz
126.50	5190.0043	5755.0065
110.00	5190.0039	5755.0056
93.50	5190.0030	5755.0052
Max. Deviation (MHz)	0.004340	0.006510
Max. Deviation (ppm)	0.84	1.13

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)	
(℃)	5190 MHz	5755 MHz
-30	5190.0042	5755.0060
-20	5190.0043	5755.0059
-10	5190.0042	5755.0058
0	5190.0040	5755.0057
10	5190.0039	5755.0056
20	5190.0038	5755.0055
30	5190.0038	5755.0054
40	5190.0037	5755.0053
50	5190.0042	5755.0060
Max. Deviation (MHz)	0.004330	0.005950
Max. Deviation (ppm)	0.83	1.03

Mode: 80 MHz

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)	
(V)	5210 MHz	5775 MHz
126.50	5210.0039	5775.0043
110.00	5210.0035	5775.0039
93.50	5210.0022	5775.0035
Max. Deviation (MHz)	0.003910	0.004340
Max. Deviation (ppm)	0.75	0.75

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)	
(℃)	5210 MHz	5775 MHz
-30	5210.0039	5775.0043
-20	5210.0039	5775.0042
-10	5210.0037	5775.0041
0	5210.0036	5775.0040
10	5210.0035	5775.0039
20	5210.0034	5775.0039
30	5210.0033	5775.0038
40	5210.0032	5775.0037
50	5210.0039	5775.0043
Max. Deviation (MHz)	0.003940	0.004270
Max. Deviation (ppm)	0.76	0.74

4.9. Antenna Requirements

4.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 22, 2015	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 02, 2014	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 02, 2014	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	Dec. 03, 2014	Conduction (CO01-CB)
Software	Audix	E3	5.410e	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	Schaffner	CBL6112D	22021	20MHz ~ 2GHz	May 06, 2015	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 12, 2015	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 28, 2014	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2014	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Feb. 24, 2015	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 25, 2014	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 06, 2014	Radiation (03CH01-CB)
EMI Receiver	Agilent	N9038A	MY52260123	9kHz ~ 8.4GHz	Jan. 21, 2015	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 12, 2014	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 15, 2014	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 03, 2014	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%