

Job No.: star2018 #2128

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: UP-Android 7 module

Mode: TX 5230MHz(802.11n)40MHz

Model: UPA000AN

Manufacturer: CTOUCH Europe B.V.

Polarization: Vertical

Power Source: DC 12V

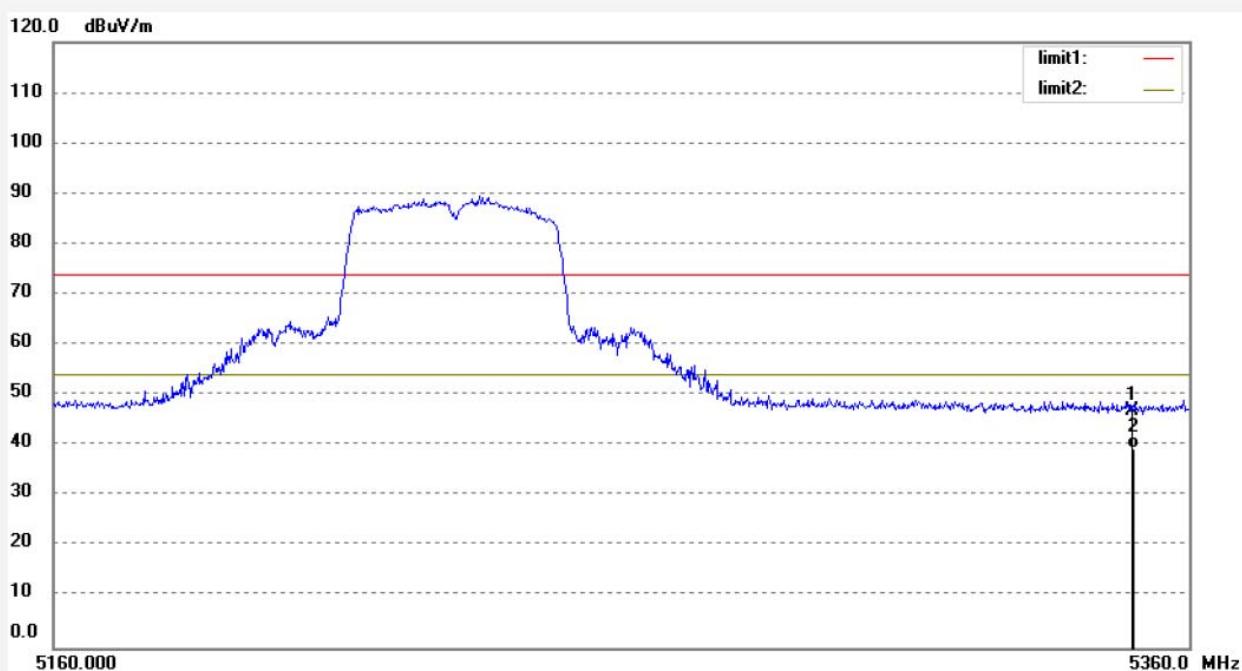
Date: 2018/06/22

Time: 19:27:41

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180786

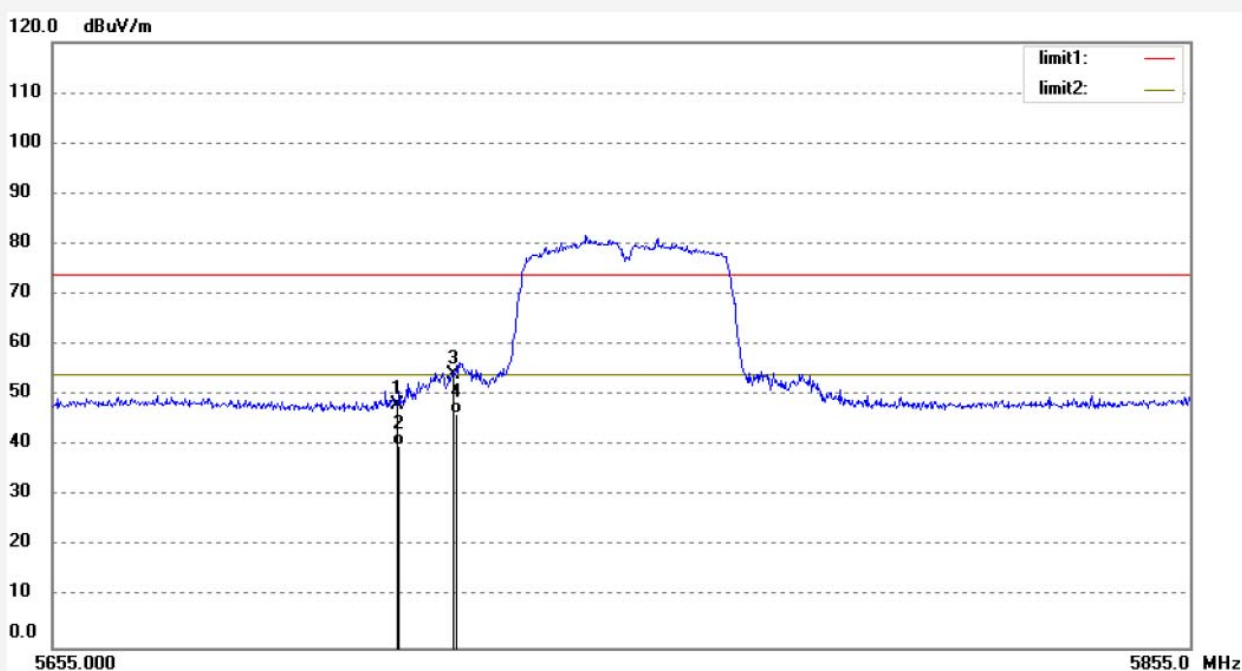


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5350.000	40.13	6.86	46.99	74.00	-27.01	peak	150	327	
2	5350.000	32.57	6.86	39.43	54.00	-14.57	AVG	150	330	

Job No.: star2018 #2138
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: UP-Android 7 module
Mode: TX 5755MHz(802.11n)40MHz
Model: UPA000AN
Manufacturer: CTOUCH Europe B.V.

Polarization: Horizontal
Power Source: DC 12V
Date: 2018/06/22
Time: 19:40:11
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5715.000	40.59	7.59	48.18	74.00	-25.82	peak	150	235	
2	5715.000	32.34	7.59	39.93	54.00	-14.07	AVG	150	237	
3	5725.000	46.44	7.65	54.09	74.00	-19.91	peak	150	240	
4	5725.000	38.69	7.65	46.34	54.00	-7.66	AVG	150	241	

Job No.: star2018 #2137

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: UP-Android 7 module

Mode: TX 5755MHz(802.11n)40MHz

Model: UPA000AN

Manufacturer: CTOUCH Europe B.V.

Polarization: Vertical

Power Source: DC 12V

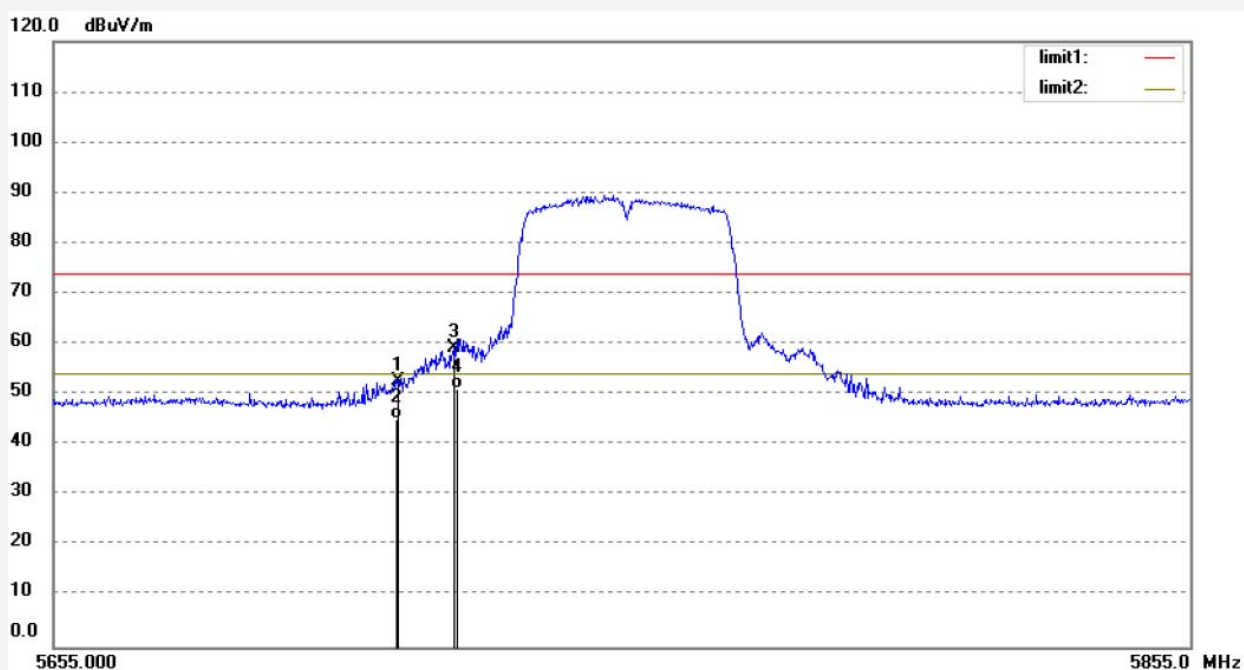
Date: 2018/06/22

Time: 19:39:22

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5715.000	45.11	7.59	52.70	74.00	-21.30	peak	150	320	
2	5715.000	37.68	7.59	45.27	54.00	-8.73	AVG	150	330	
3	5725.000	51.55	7.65	59.20	74.00	-14.80	peak	150	318	
4	5725.000	43.52	7.65	51.17	54.00	-2.83	AVG	150	319	

Job No.: star2018 #2139

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: UP-Android 7 module

Mode: TX 5795MHz(802.11n)40MHz

Model: UPA000AN

Manufacturer: CTOUCH Europe B.V.

Polarization: Horizontal

Power Source: DC 12V

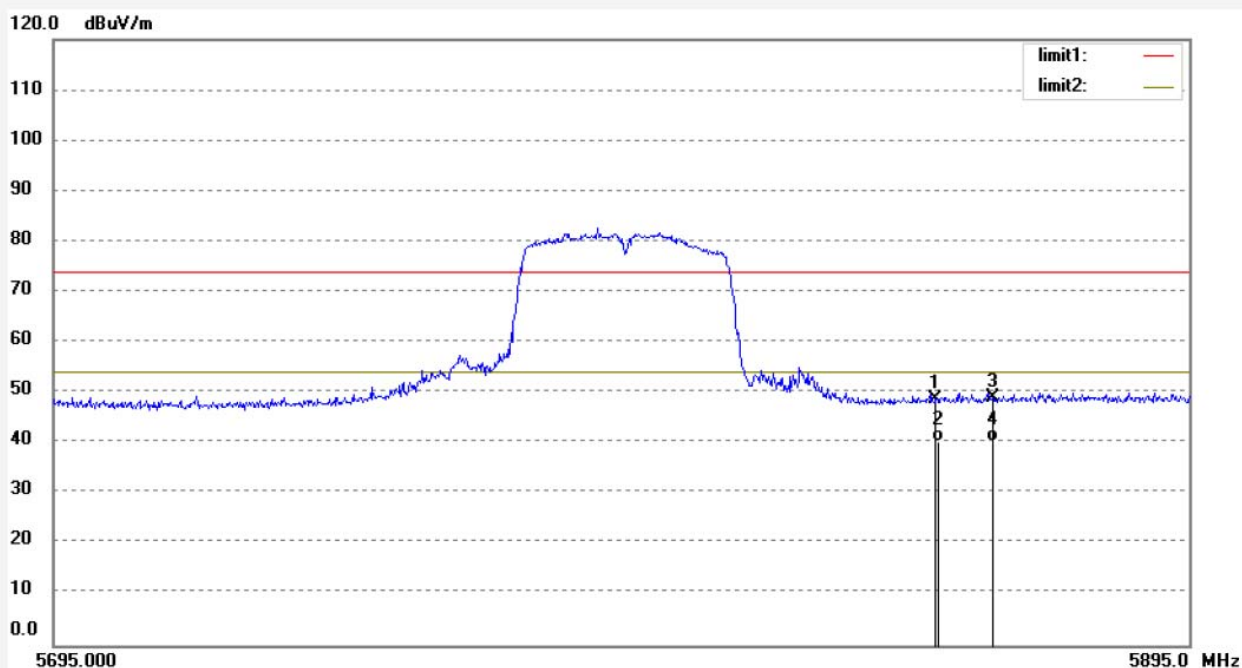
Date: 2018/06/22

Time: 19:41:53

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5850.000	40.36	8.25	48.61	74.00	-25.39	peak	150	267	
2	5850.000	32.00	8.25	40.25	54.00	-13.75	AVG	150	270	
3	5860.000	40.80	8.28	49.08	74.00	-24.92	peak	150	272	
4	5860.000	32.14	8.28	40.42	54.00	-13.58	AVG	150	236	



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Site: 2# Chamber

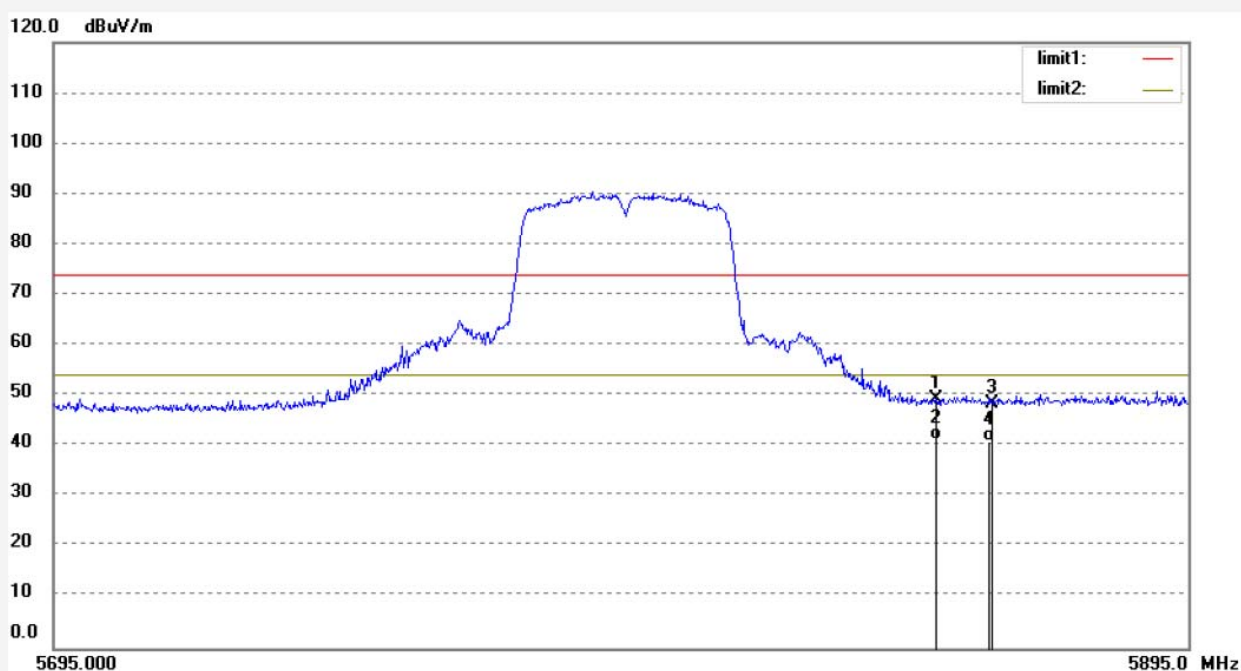
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2018 #2140
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: UP-Android 7 module
Mode: TX 5795MHz(802.11n)40MHz
Model: UPA000AN
Manufacturer: CTOUCH Europe B.V.

Polarization: Vertical
Power Source: DC 12V
Date: 2018/06/22
Time: 19:42:40
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5850.000	41.24	8.25	49.49	74.00	-24.51	peak	150	270	
2	5850.000	33.04	8.25	41.29	54.00	-12.71	AVG	150	280	
3	5860.000	40.29	8.28	48.57	74.00	-25.43	peak	150	275	
4	5860.000	32.61	8.28	40.89	54.00	-13.11	AVG	150	276	

Test mode: 802.11ac 40MHz TX Frequency: 5190MHz, 5230MHz, 5755MHz, 5795MHz

The EUT is tested Radiated Band Edge at each test mode in three axes. Besides, We have tested the single antenna transmit mode and the dual antenna emission mode. The worst emissions are reflected in the following plots



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Site: 2# Chamber

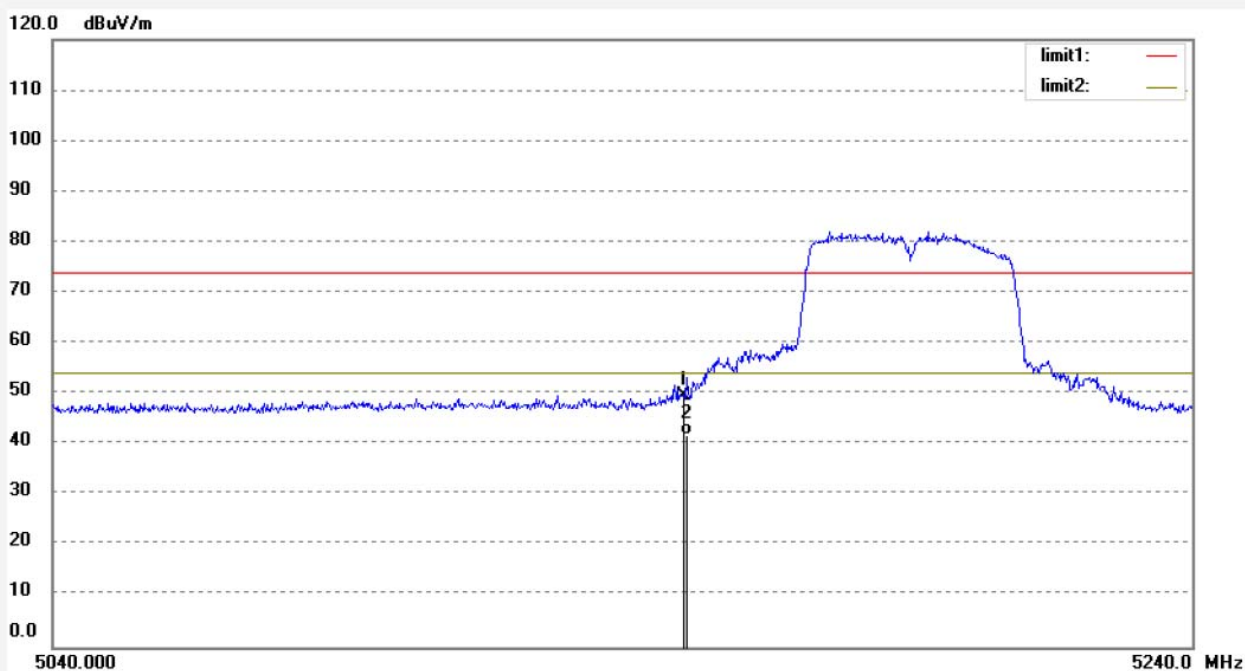
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star2018 #2142
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: UP-Android 7 module
Mode: TX 5190MHz(802.11ac)40MHz
Model: UPA000AN
Manufacturer: CTOUCH Europe B.V.

Polarization: Horizontal
Power Source: DC 12V
Date: 2018/06/22
Time: 19:46:25
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5150.000	43.15	6.39	49.54	74.00	-24.46	peak	150	287	
2	5150.000	35.44	6.39	41.83	54.00	-12.17	AVG	150	290	

Job No.: star2018 #2141

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: UP-Android 7 module

Mode: TX 5190MHz(802.11ac)40MHz

Model: UPA000AN

Manufacturer: CTOUCH Europe B.V.

Polarization: Vertical

Power Source: DC 12V

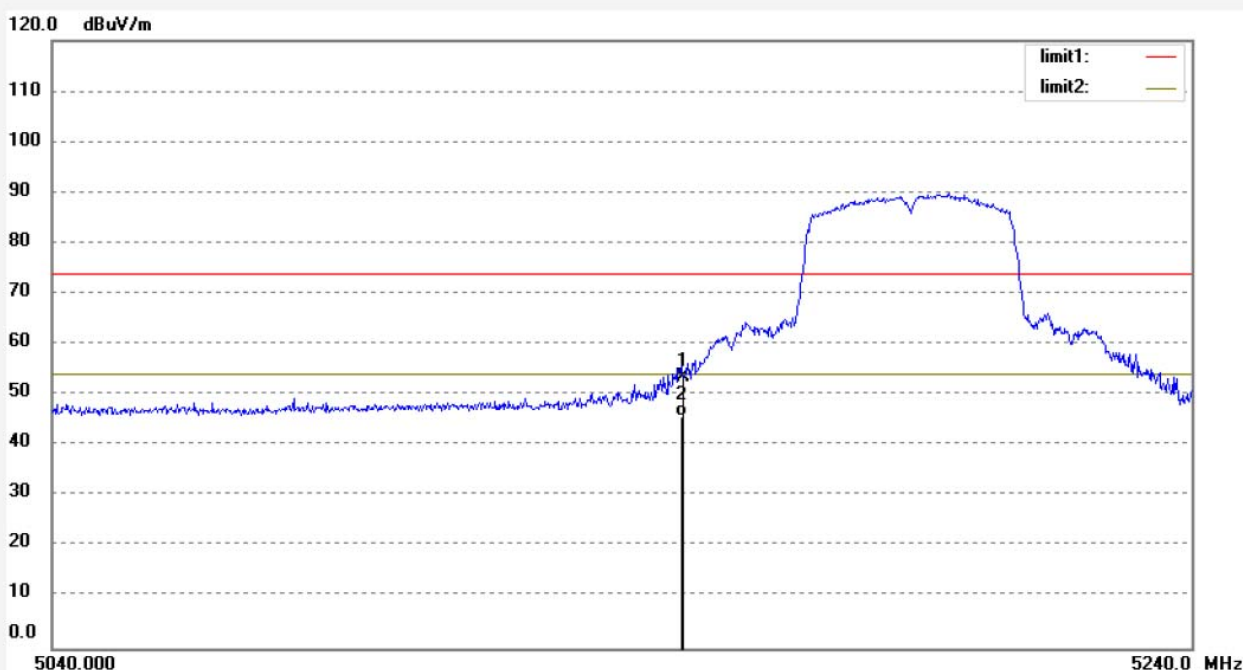
Date: 2018/06/22

Time: 19:45:32

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180786

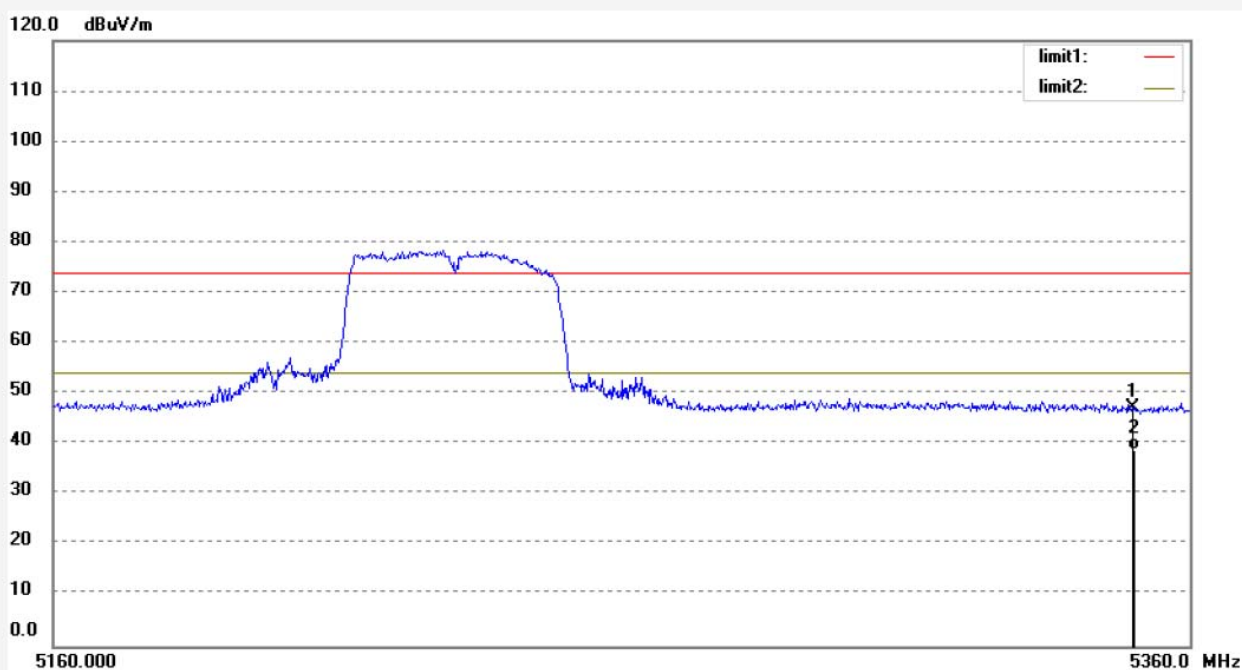


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5150.000	47.14	6.39	53.53	74.00	-20.47	peak	150	287	
2	5150.000	39.50	6.39	45.89	54.00	-8.11	AVG	150	290	

Job No.: star2018 #2143
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: UP-Android 7 module
Mode: TX 5230MHz(802.11ac)40MHz
Model: UPA000AN
Manufacturer: CTOUCH Europe B.V.

Polarization: Horizontal
Power Source: DC 12V
Date: 2018/06/22
Time: 19:47:51
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5350.000	40.43	6.86	47.29	74.00	-26.71	peak	150	291	
2	5350.000	32.08	6.86	38.94	54.00	-15.06	AVG	150	290	

Job No.: star2018 #2144

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: UP-Android 7 module

Mode: TX 5230MHz(802.11ac)40MHz

Model: UPA000AN

Manufacturer: CTOUCH Europe B.V.

Polarization: Vertical

Power Source: DC 12V

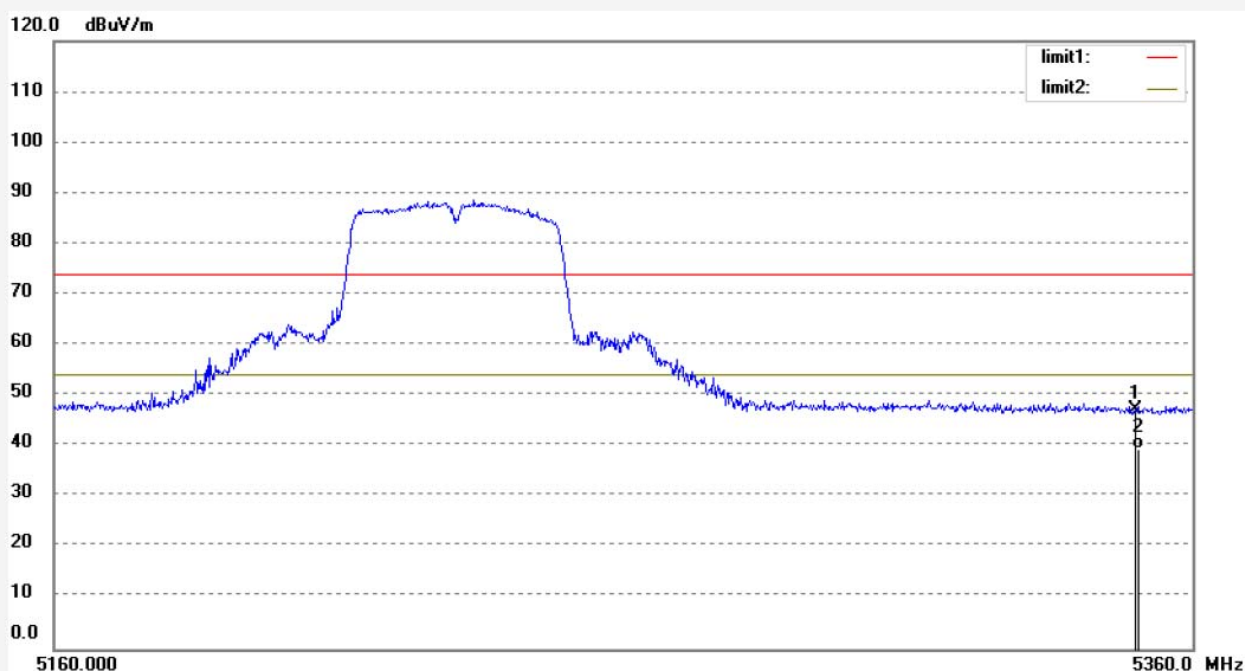
Date: 2018/06/22

Time: 19:48:51

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180786

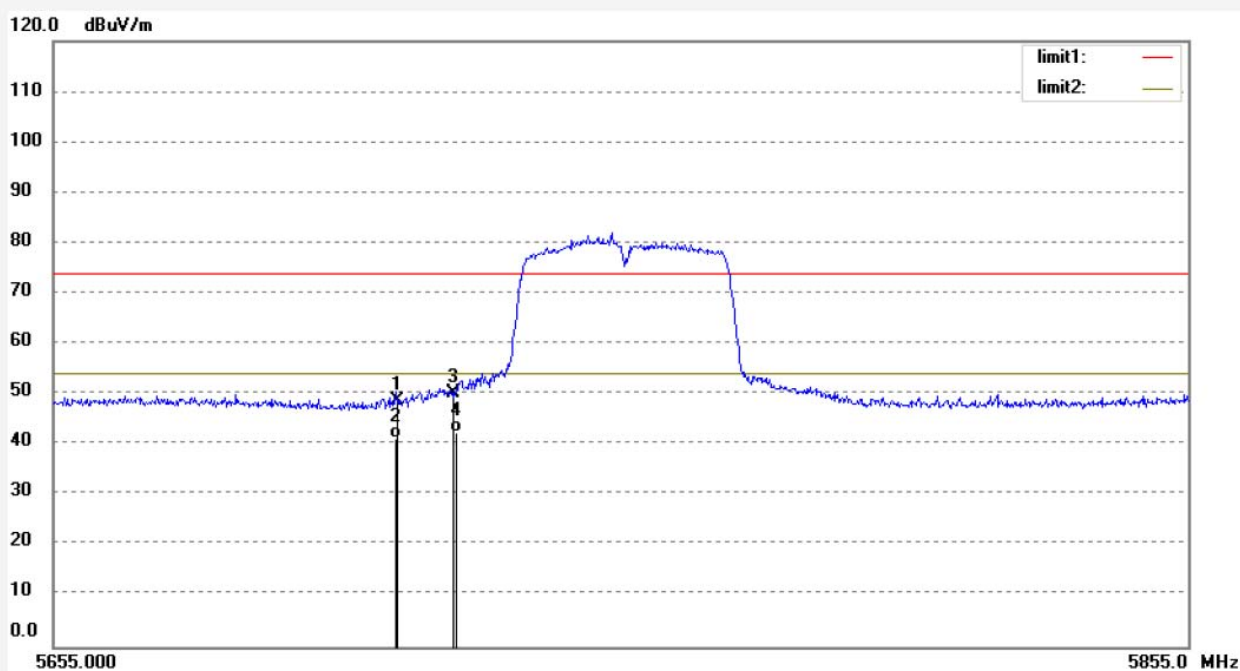


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5350.000	40.46	6.86	47.32	74.00	-26.68	peak	150	287	
2	5350.000	32.65	6.86	39.51	54.00	-14.49	AVG	150	238	

Job No.: star2018 #2154
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: UP-Android 7 module
Mode: TX 5755MHz(802.11ac)40MHz
Model: UPA000AN
Manufacturer: CTOUCH Europe B.V.

Polarization: Horizontal
Power Source: DC 12V
Date: 2018/06/22
Time: 20:01:44
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180786

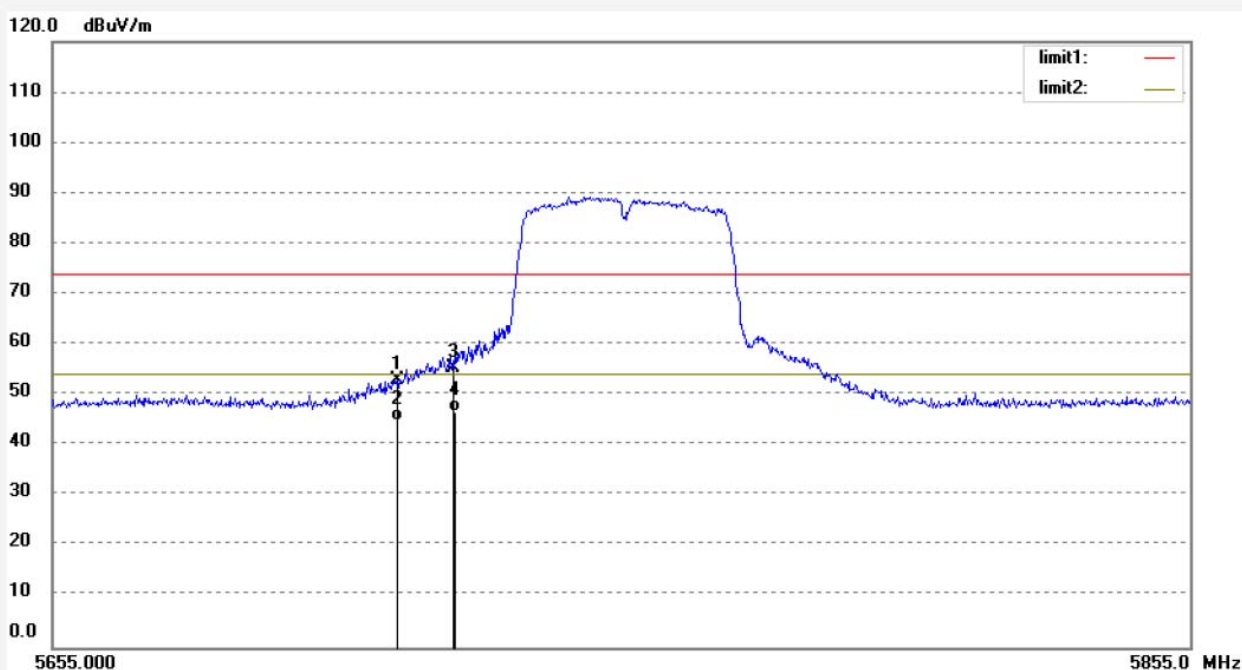


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5715.000	41.19	7.59	48.78	74.00	-25.22	peak	150	238	
2	5715.000	33.70	7.59	41.29	54.00	-12.71	AVG	150	240	
3	5725.000	42.69	7.65	50.34	74.00	-23.66	peak	150	322	
4	5725.000	34.90	7.65	42.55	54.00	-11.45	AVG	150	319	

Job No.: star2018 #2153
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: UP-Android 7 module
Mode: TX 5755MHz(802.11ac)40MHz
Model: UPA000AN
Manufacturer: CTOUCH Europe B.V.

Polarization: Vertical
Power Source: DC 12V
Date: 2018/06/22
Time: 20:00:49
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5715.000	45.37	7.59	52.96	74.00	-21.04	peak	150	238	
2	5715.000	37.17	7.59	44.76	54.00	-9.24	AVG	150	240	
3	5725.000	47.61	7.65	55.26	74.00	-18.74	peak	150	245	
4	5725.000	39.06	7.65	46.71	54.00	-7.29	AVG	150	246	

Job No.: star2018 #2155

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: UP-Android 7 module

Mode: TX 5795MHz(802.11ac)40MHz

Model: UPA000AN

Manufacturer: CTOUCH Europe B.V.

Polarization: Horizontal

Power Source: DC 12V

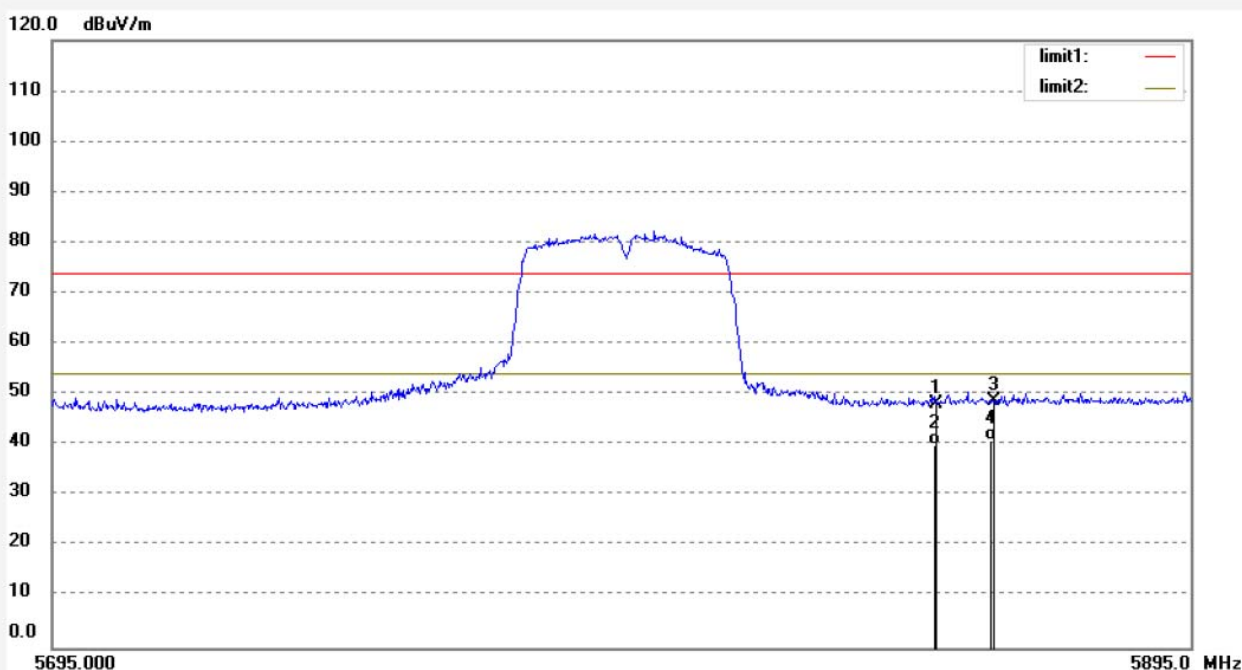
Date: 2018/06/22

Time: 20:03:20

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5850.000	39.97	8.25	48.22	74.00	-25.78	peak	150	87	
2	5850.000	31.72	8.25	39.97	54.00	-14.03	AVG	150	198	
3	5860.000	40.38	8.28	48.66	74.00	-25.34	peak	150	187	
4	5860.000	32.66	8.28	40.94	54.00	-13.06	AVG	150	96	

Job No.: star2018 #2156

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: UP-Android 7 module

Mode: TX 5795MHz(802.11ac)40MHz

Model: UPA000AN

Manufacturer: CTOUCH Europe B.V.

Polarization: Vertical

Power Source: DC 12V

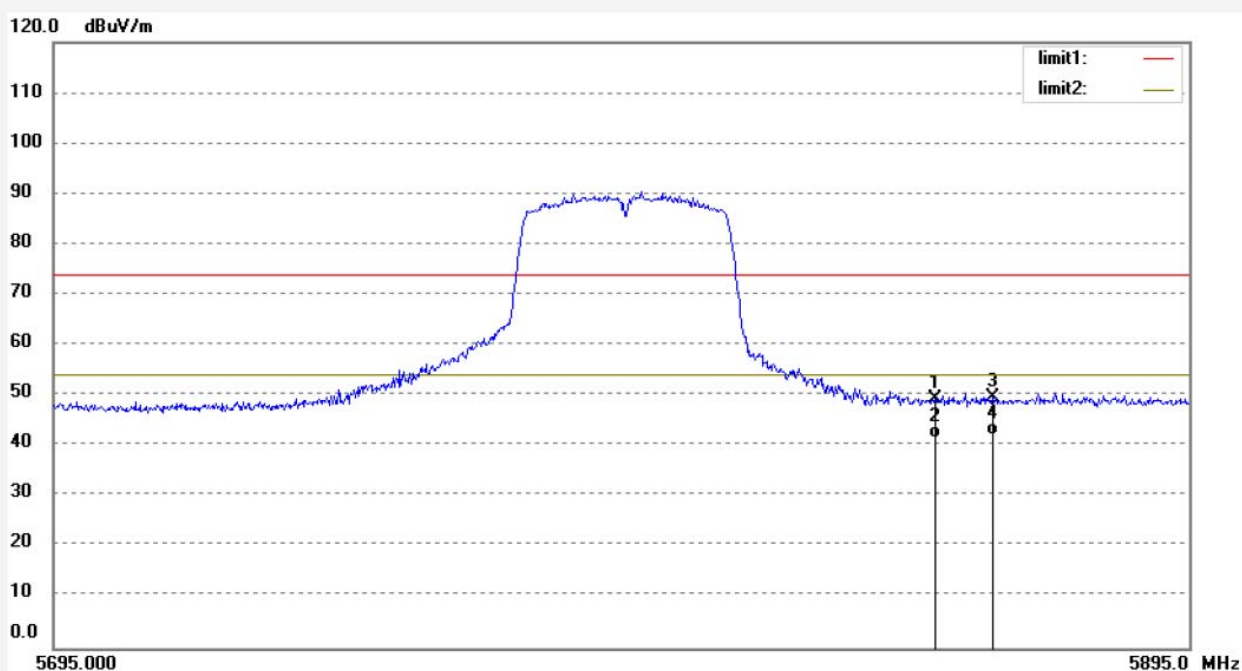
Date: 2018/06/22

Time: 20:04:12

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5850.000	41.13	8.25	49.38	74.00	-24.62	peak	150	78	
2	5850.000	33.40	8.25	41.65	54.00	-12.35	AVG	150	87	
3	5860.000	41.30	8.28	49.58	74.00	-24.42	peak	150	282	
4	5860.000	33.97	8.28	42.25	54.00	-11.75	AVG	150	317	

Test mode: 802.11ac 80MHz TX Frequency: 5210MHz, 5775MHz

The EUT is tested Radiated Band Edge at each test mode in three axes. Besides, We have tested the single antenna transmit mode and the dual antenna emission mode. The worst emissions are reflected in the following plots



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Job No.: star2018 #2158

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: UP-Android 7 module

Mode: TX 5210MHz(802.11ac)80MHz

Model: UPA000AN

Manufacturer: CTOUCH Europe B.V.

Polarization: Horizontal

Power Source: DC 12V

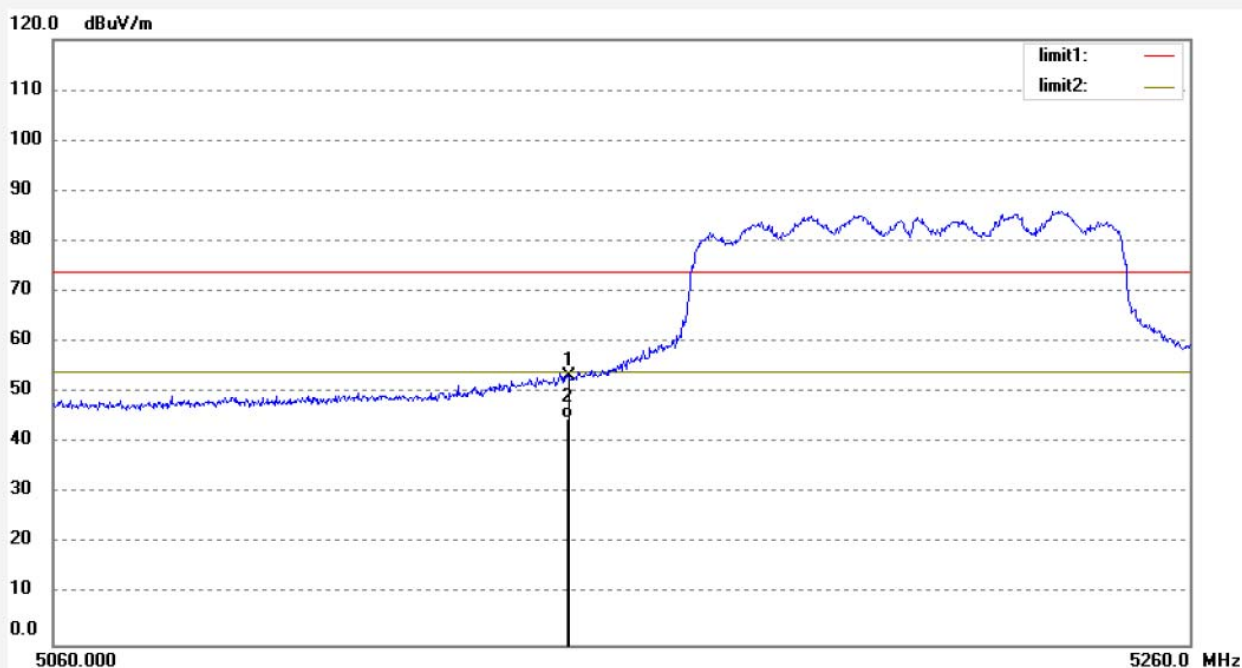
Date: 2018/06/22

Time: 20:09:58

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20180786

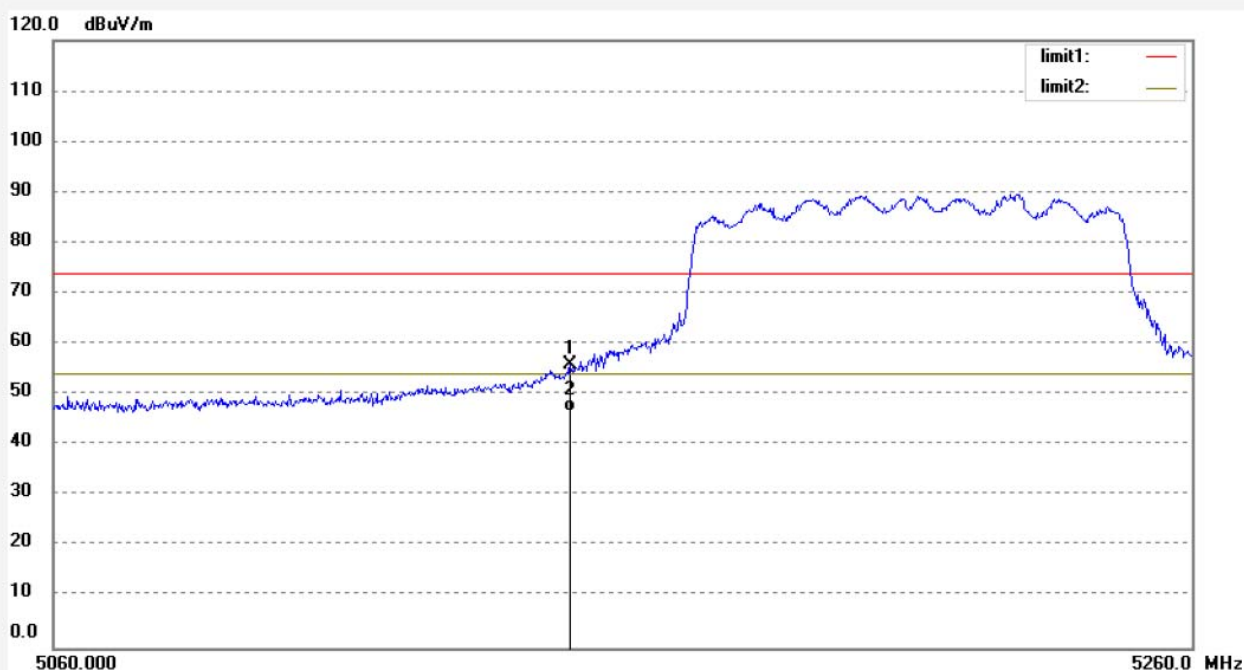


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5150.000	46.90	6.39	53.29	74.00	-20.71	peak	150	190	
2	5150.000	38.55	6.39	44.94	54.00	-9.06	AVG	150	201	

Job No.: star2018 #2157
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: UP-Android 7 module
Mode: TX 5210MHz(802.11ac)80MHz
Model: UPA000AN
Manufacturer: CTOUCH Europe B.V.

Polarization: Vertical
Power Source: DC 12V
Date: 2018/06/22
Time: 20:08:47
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180786

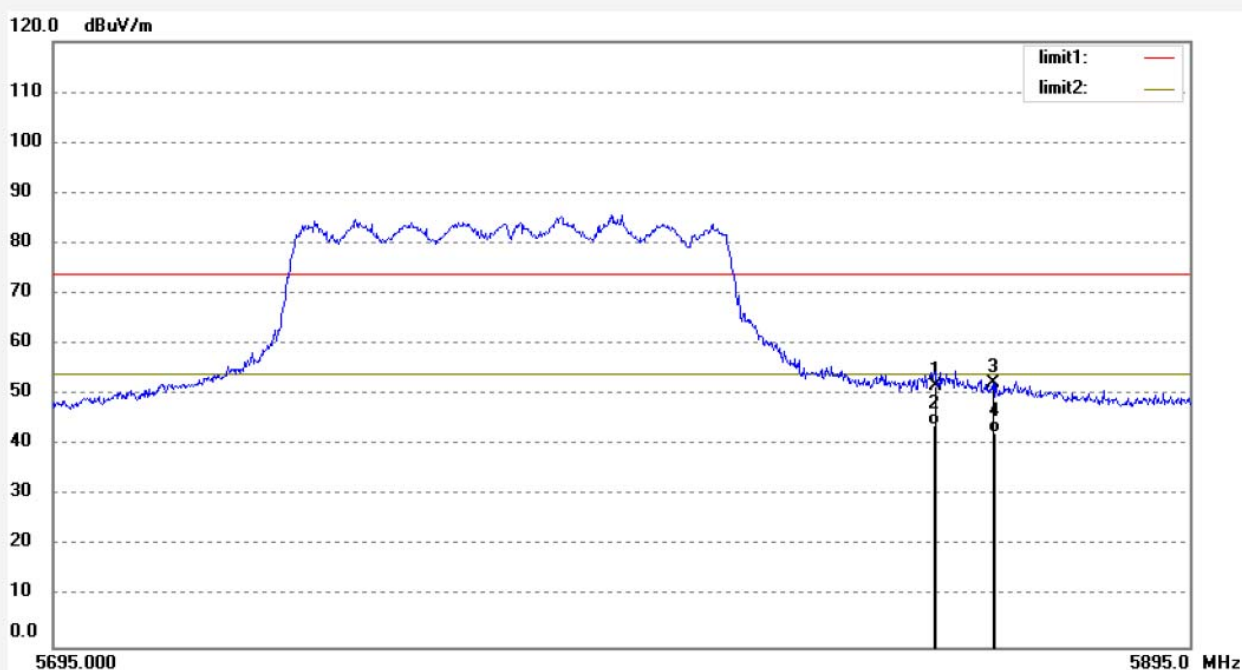


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5150.000	49.60	6.39	55.99	74.00	-18.01	peak	150	28	
2	5150.000	40.40	6.39	46.79	54.00	-7.21	AVG	150	30	

Job No.: star2018 #2163
Standard: FCC PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: UP-Android 7 module
Mode: TX 5775MHz(802.11ac)80MHz
Model: UPA000AN
Manufacturer: CTOUCH Europe B.V.

Polarization: Horizontal
Power Source: DC 12V
Date: 2018/06/22
Time: 20:25:58
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5850.000	43.57	8.25	51.82	74.00	-22.18	peak	150	187	
2	5850.000	35.67	8.25	43.92	54.00	-10.08	AVG	150	190	
3	5860.000	43.95	8.28	52.23	74.00	-21.77	peak	150	176	
4	5860.000	34.24	8.28	42.52	54.00	-11.48	AVG	150	169	

Job No.: star2018 #2164

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: UP-Android 7 module

Mode: TX 5775MHz(802.11ac)80MHz

Model: UPA000AN

Manufacturer: CTOUCH Europe B.V.

Polarization: Vertical

Power Source: DC 12V

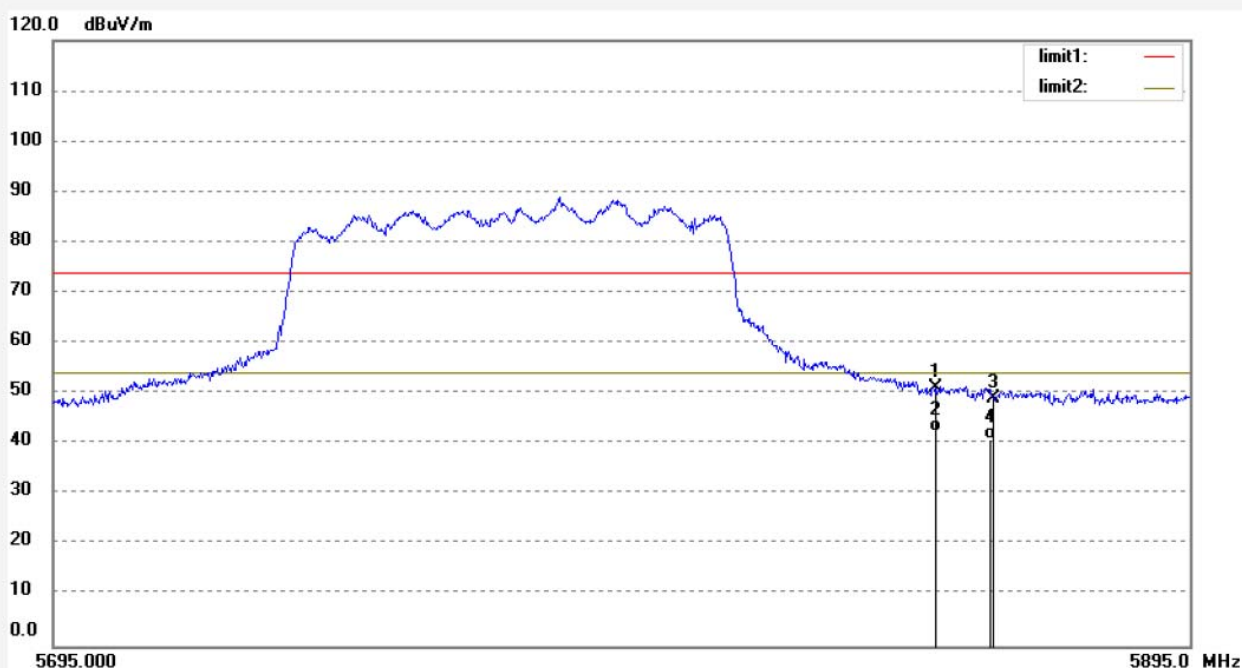
Date: 2018/06/22

Time: 20:27:41

Engineer Signature: star

Distance: 3m

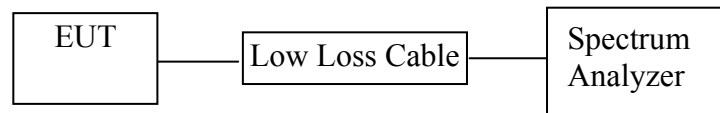
Note: Report No.:ATE20180786



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5850.000	42.97	8.25	51.22	74.00	-22.78	peak			
2	5850.000	34.24	8.25	42.49	54.00	-11.51	AVG			
3	5860.000	40.75	8.28	49.03	74.00	-24.97	peak			
4	5860.000	32.69	8.28	40.97	54.00	-13.03	AVG			

13.IN BAND EMISSION

13.1.Block Diagram of Test Setup



13.2.For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

13.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

13.4.Operating Condition of EUT

13.4.1.Setup the EUT and simulator as shown as Section 13.1.

13.4.2.Turn on the power of all equipment.

13.4.3.Let the EUT work in TX modes measure it. The transmit frequency is 5725-5825MHz .

13.5.Test Procedure

13.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

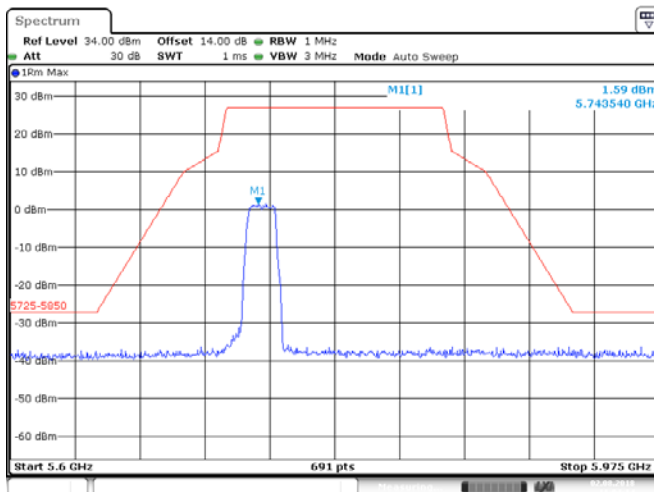
13.5.2.Set RBW of spectrum analyzer to 1000kHz and VBW to 3000kHz.

13.6. Test Result

PASS

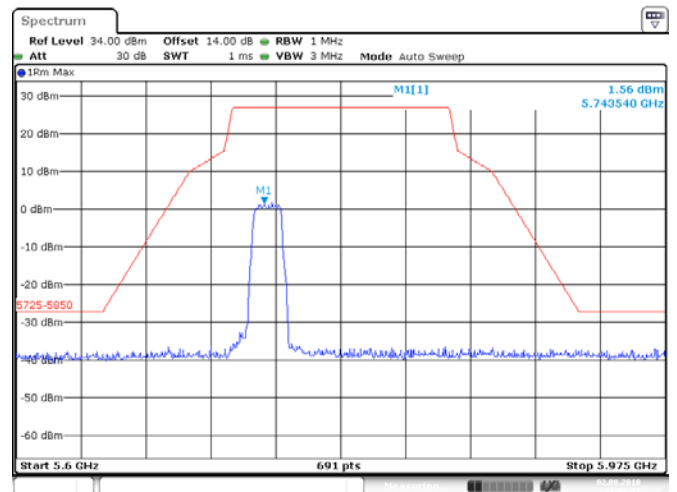
SISO mode

ANT 1(11A) 5745MHz



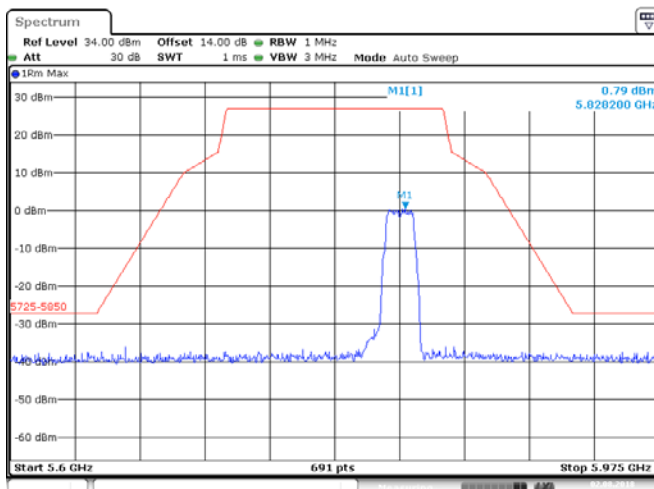
Date: 2.AUG.2018 11:04:13

ANT 2(11A) 5745MHz



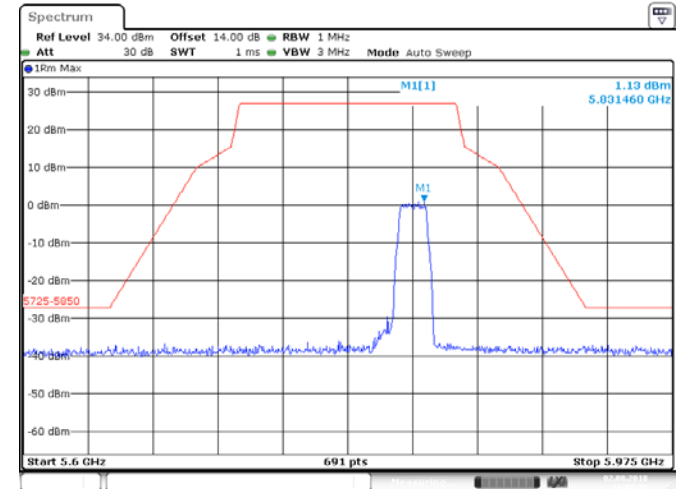
Date: 2.AUG.2018 11:05:27

ANT 1(11A) 5825MHz



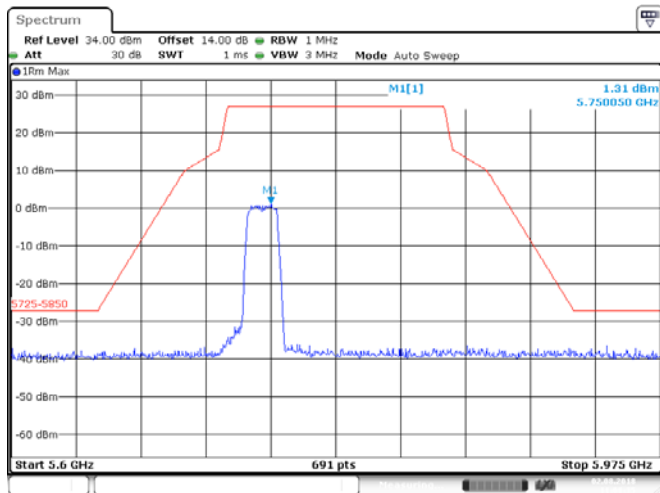
Date: 2.AUG.2018 11:06:10

ANT 2(11A) 5825MHz



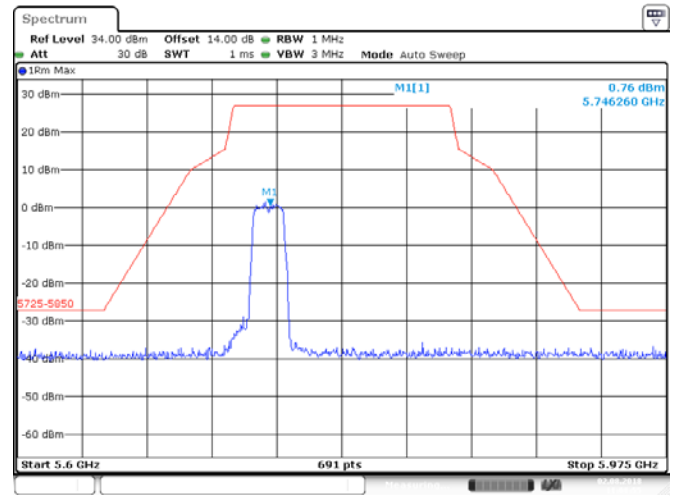
Date: 2.AUG.2018 11:06:35

ANT 1(11N) 5745MHz



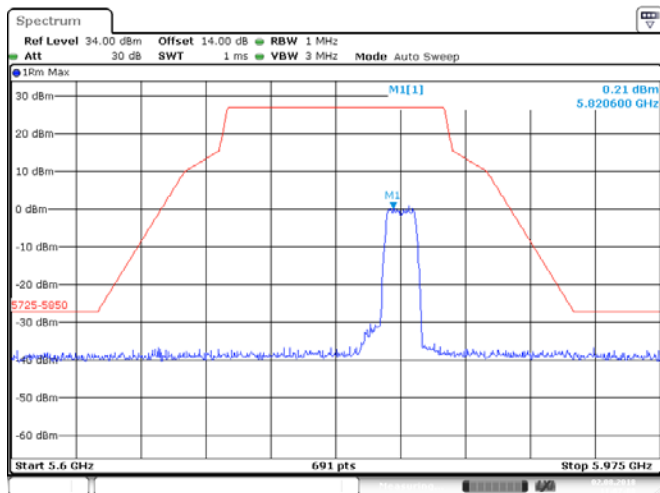
Date: 2.AUG.2018 11:08:35

ANT 2(11N) 5745MHz



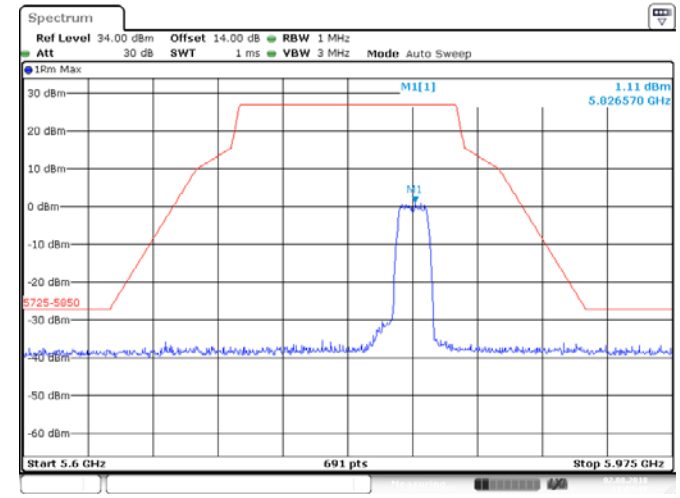
Date: 2.AUG.2018 11:08:55

ANT 1(11N) 5825MHz



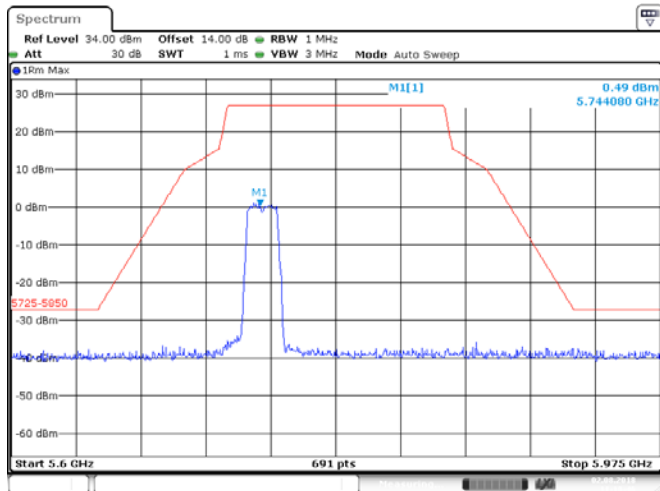
Date: 2.AUG.2018 11:07:09

ANT 2(11N) 5825MHz

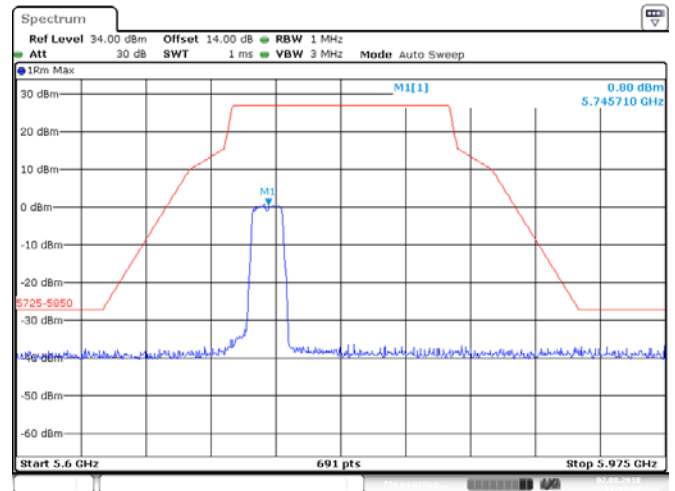


Date: 2.AUG.2018 11:07:16

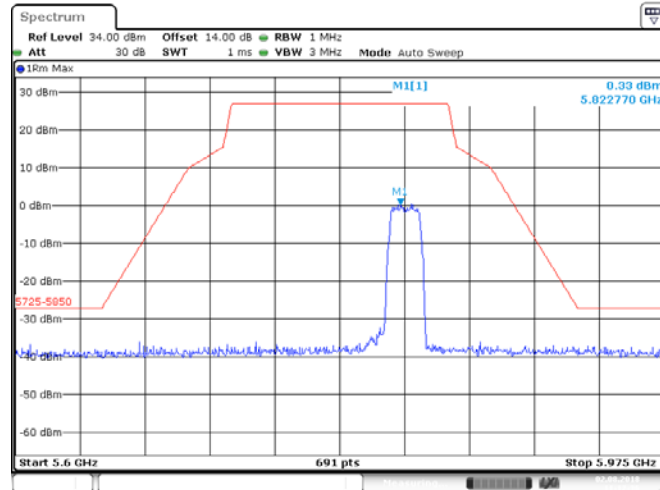
ANT 1(11AC) 5745MHz



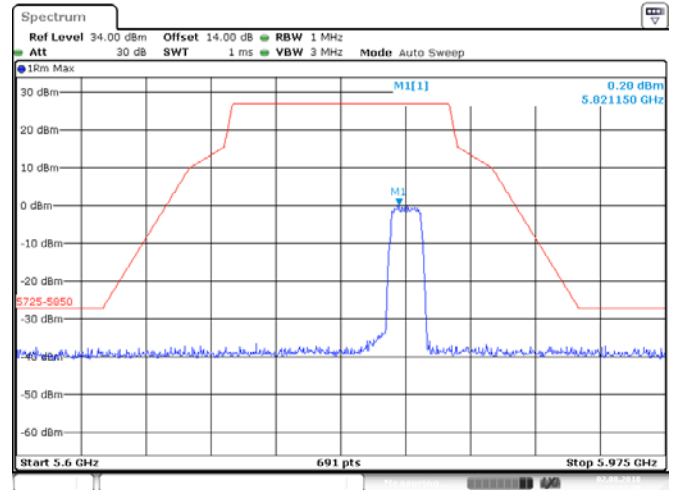
ANT 2(11AC) 5745MHz



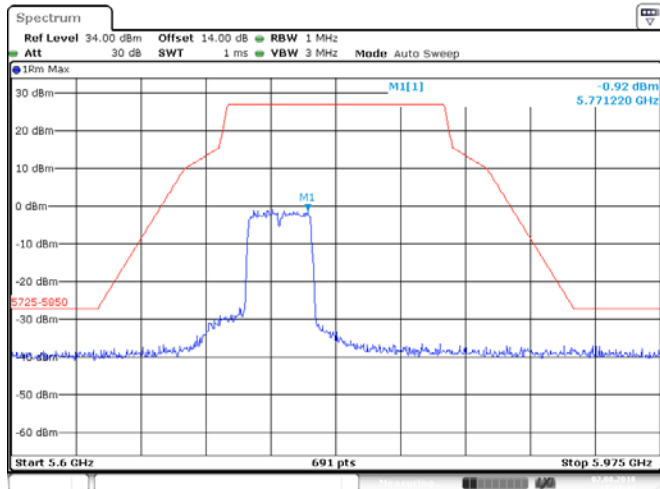
ANT 1(11AC) 5825MHz



ANT 2(11AC) 5825MHz

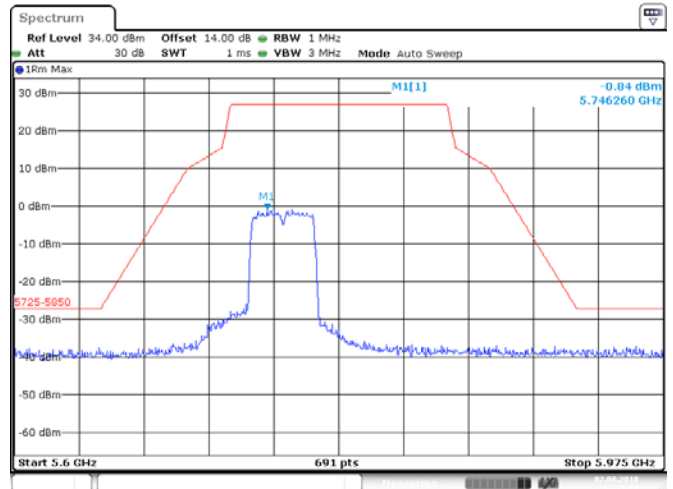


ANT 1(11N) 5755MHz



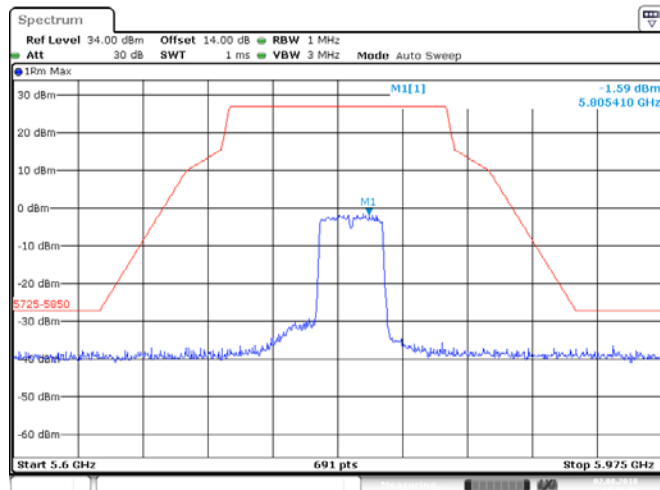
Date: 2.AUG.2018 11:18:41

ANT 2(11N) 5755MHz



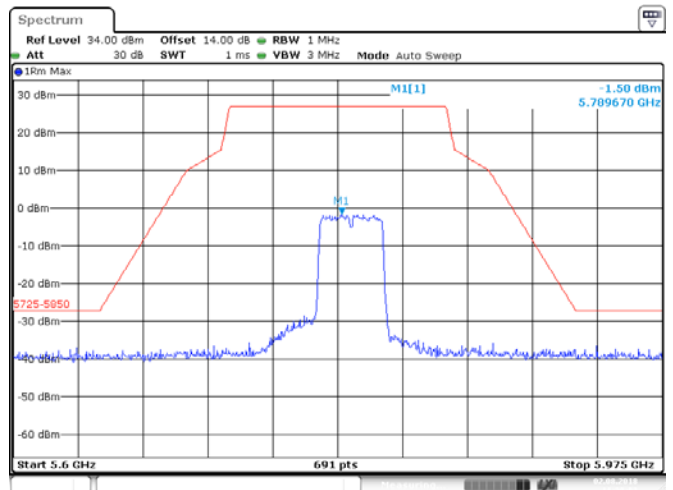
Date: 2.AUG.2018 11:19:09

ANT 1(11N) 5795MHz



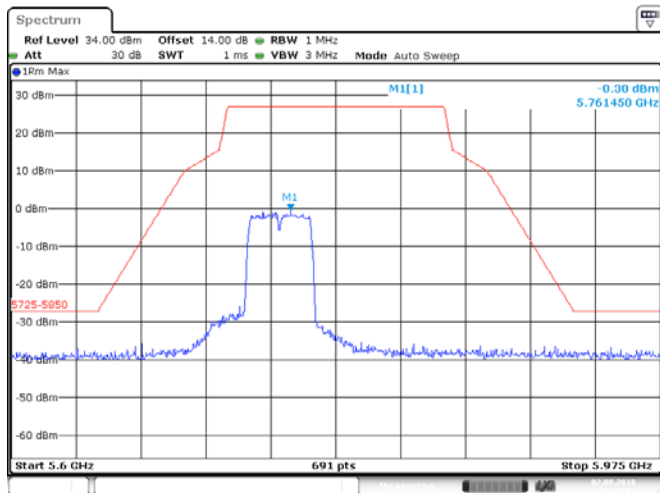
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ANT 2(11N) 5795MHz

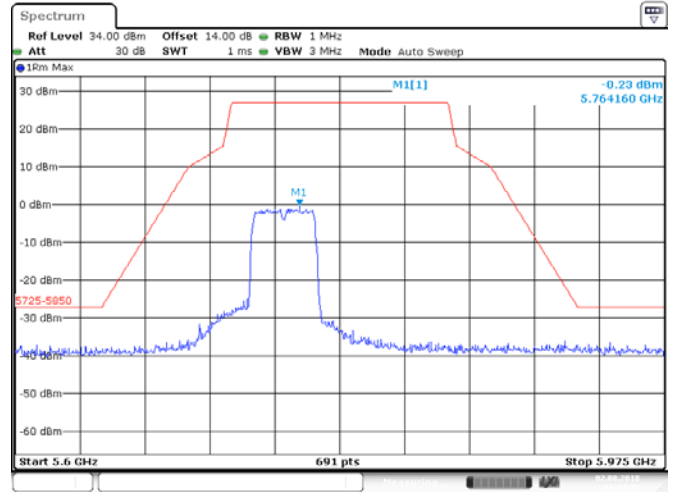


Date: 2.AUG.2018 11:20:02

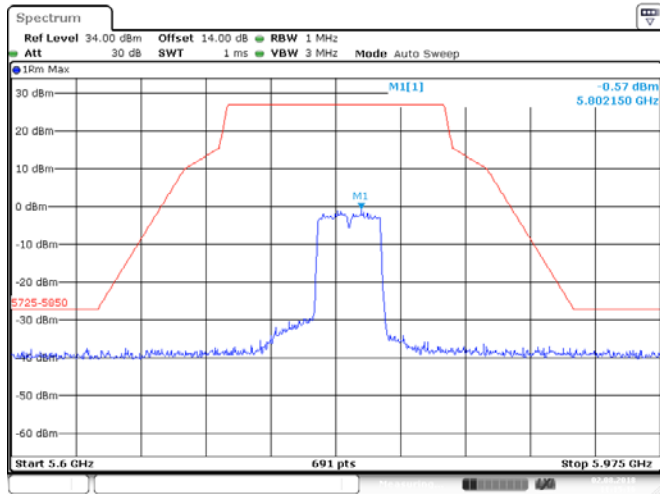
ANT 1(11AC) 5755MHz



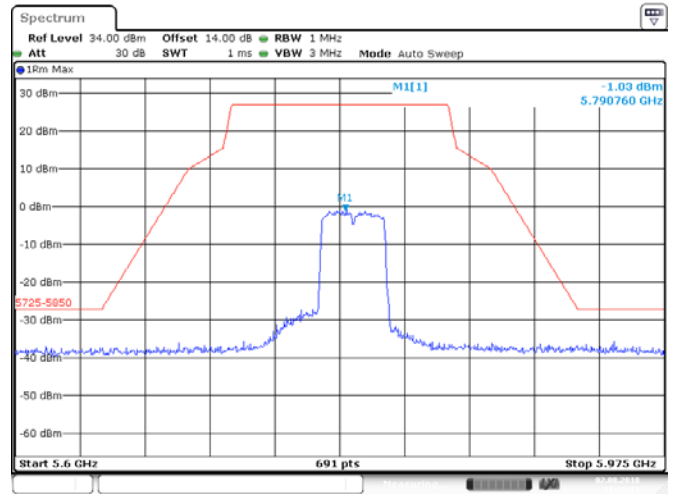
ANT 2(11AC) 5755MHz



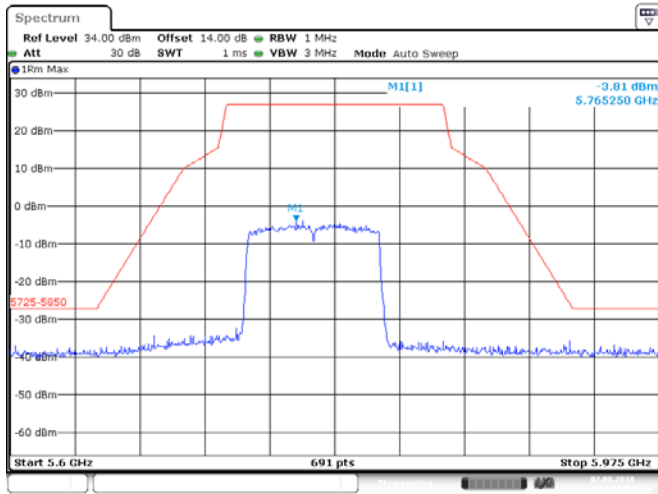
ANT 1(11AC) 5795MHz



ANT 2(11AC) 5795MHz

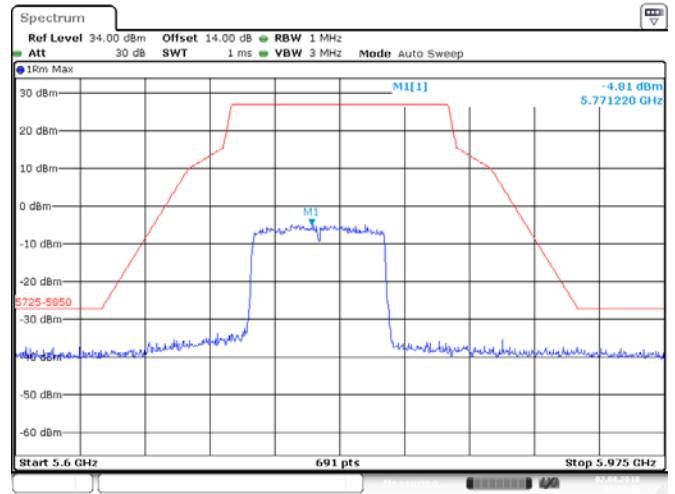


ANT 1(11AC) 5775MHz



Date: 2.AUG.2018 11:17:24

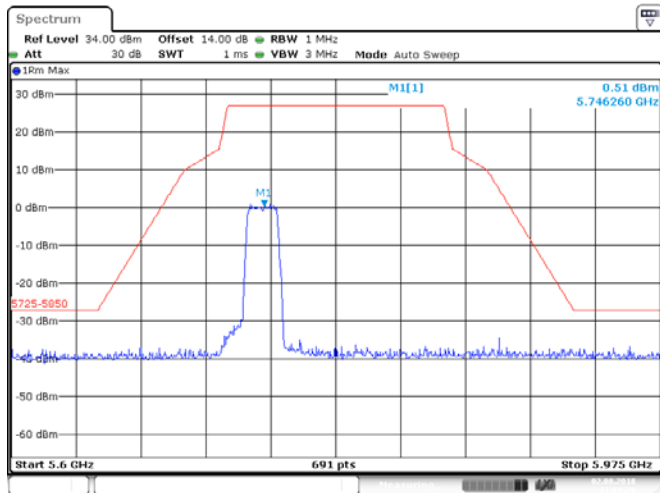
ANT 2(11AC) 5775MHz



Date: 2.AUG.2018 11:17:38

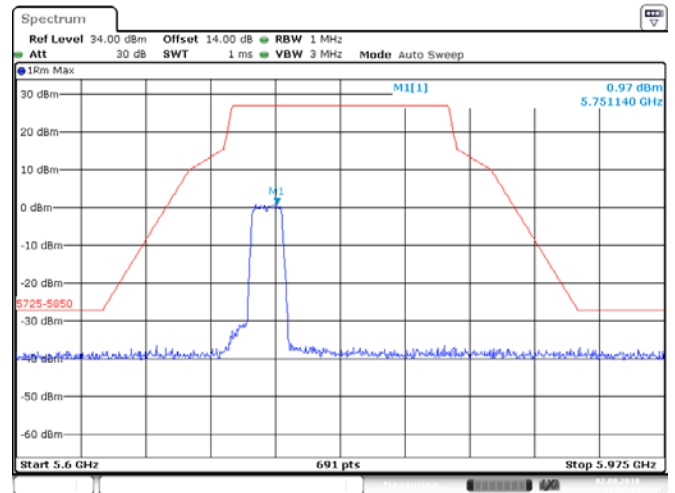
MIMO mode

ANT 1(11N) 5745MHz



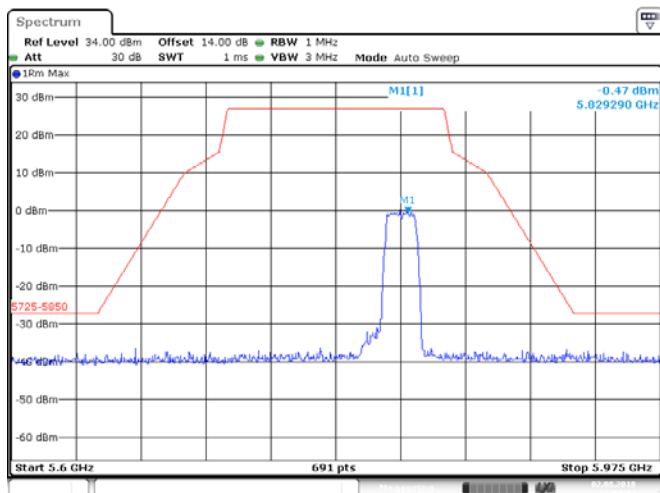
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ANT 2(11N) 5745MHz



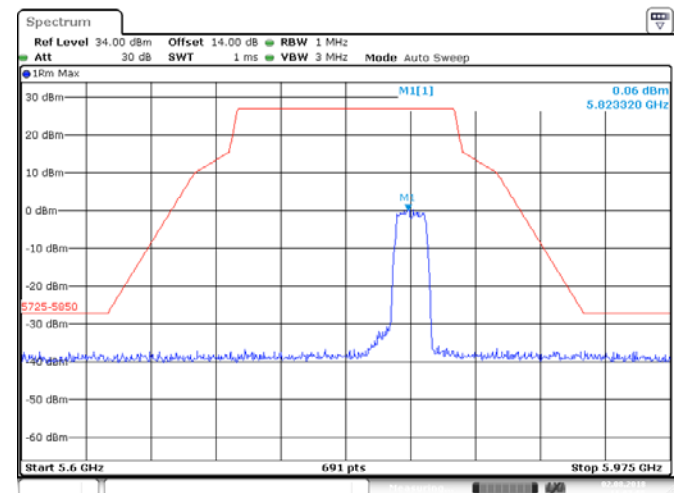
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ANT 1(11N) 5825MHz



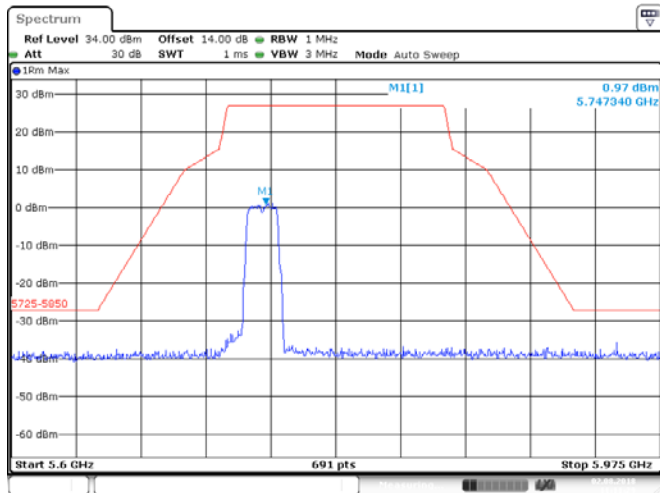
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ANT 2(11N) 5825MHz

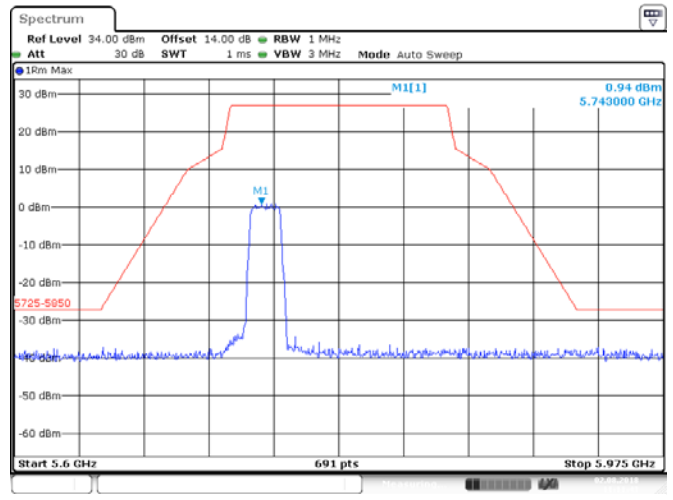


Date: 2.AUG.2018 11:07:55

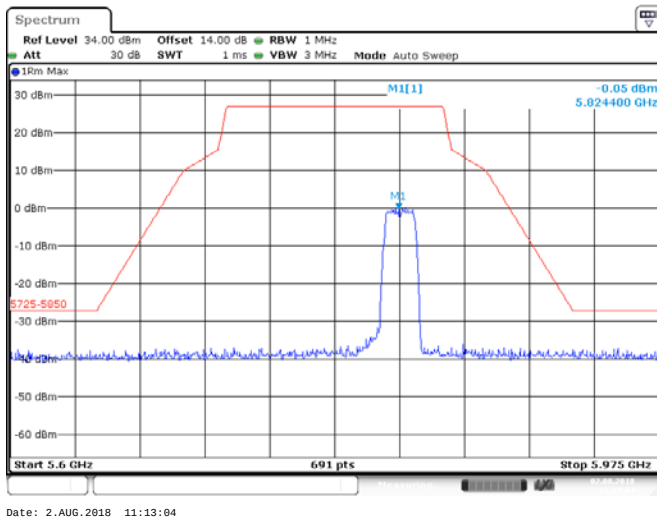
ANT 1(11AC) 5745MHz



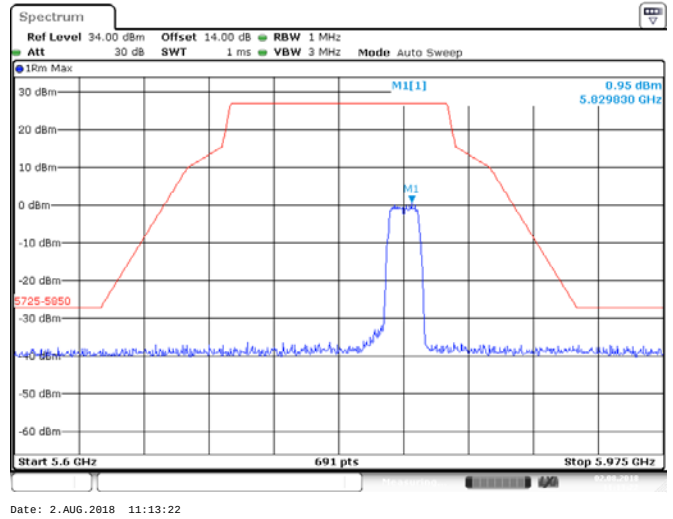
ANT 2(11AC) 5745MHz



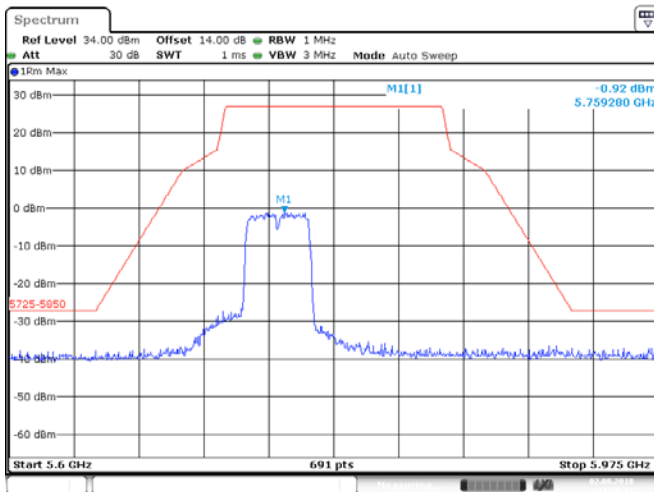
ANT 1(11AC) 5825MHz



ANT 2(11AC) 5825MHz

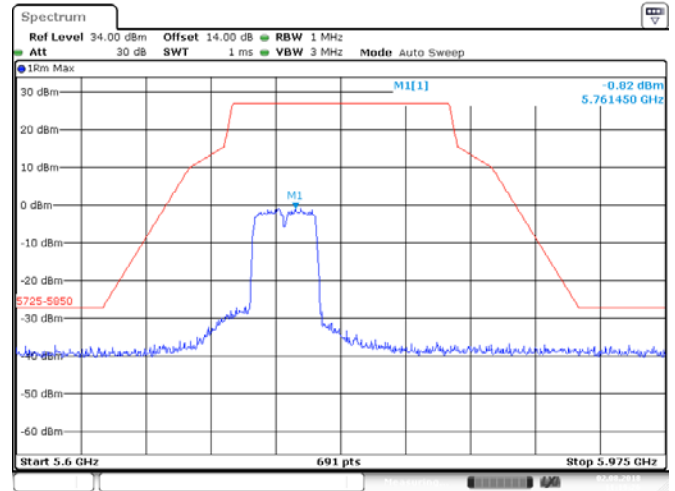


ANT 1(11N) 5755MHz



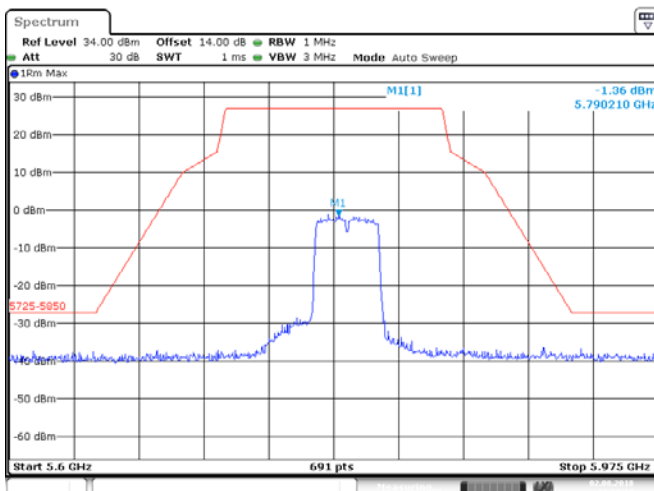
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ANT 2(11N) 5755MHz



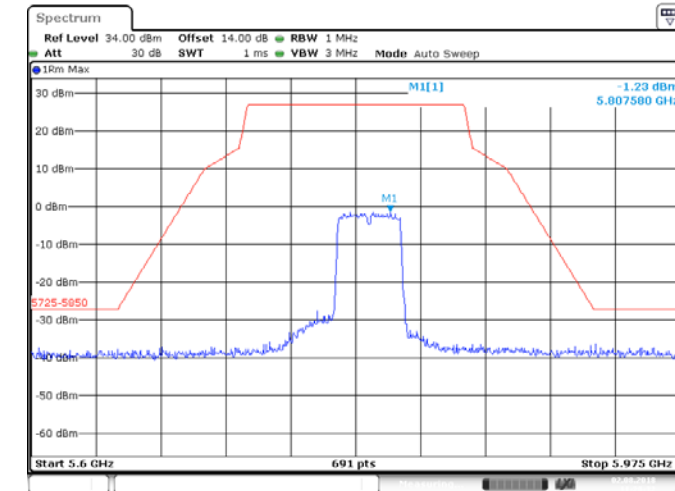
Date: 2.AUG.2018 11:19:26

ANT 1(11N) 5795MHz



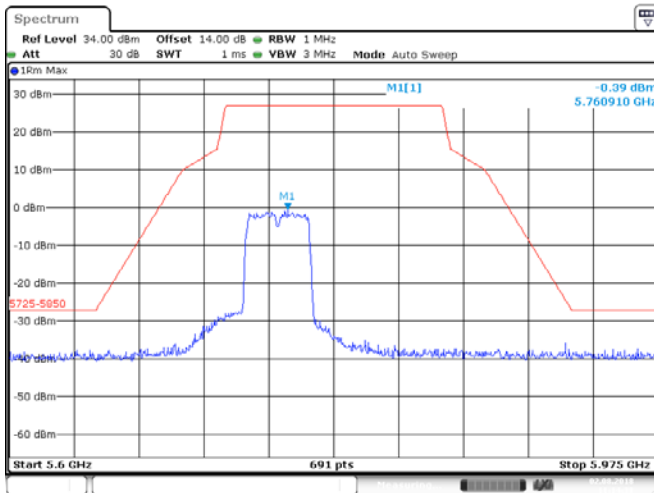
Date: 2.AUG.2018 11:20:17

ANT 2(11N) 5795MHz

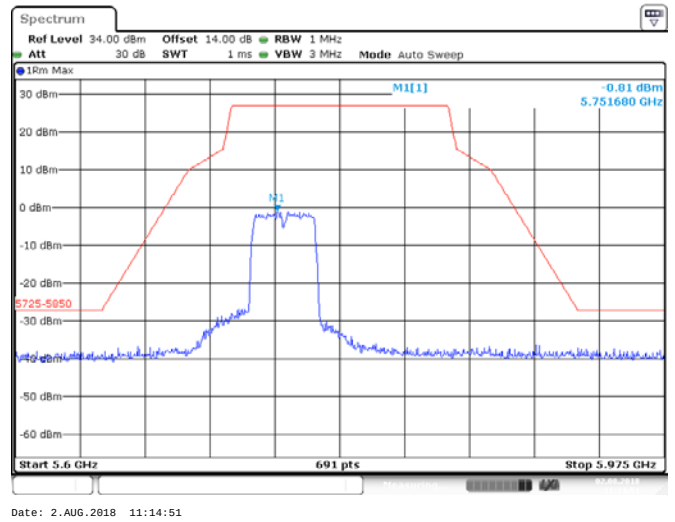


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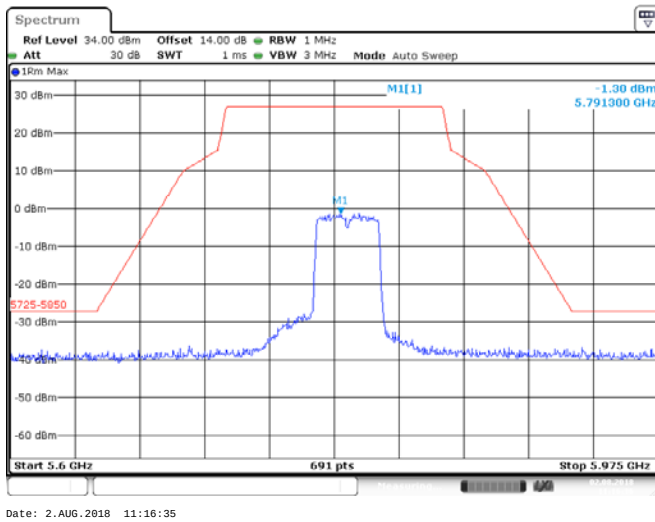
ANT 1(11AC) 5755MHz



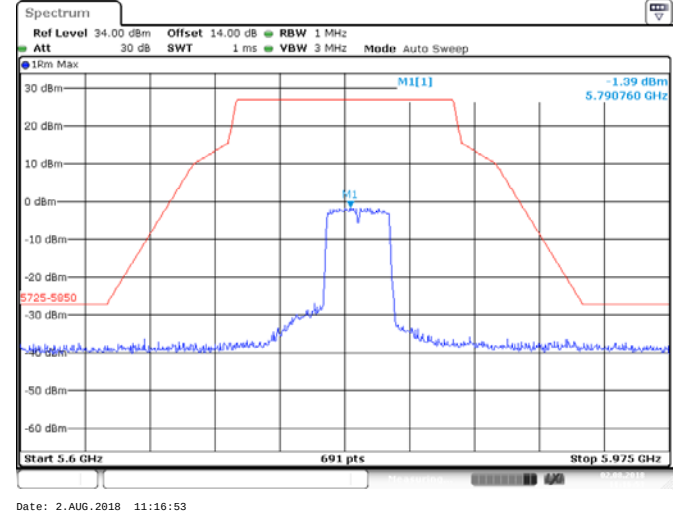
ANT 2(11AC) 5755MHz



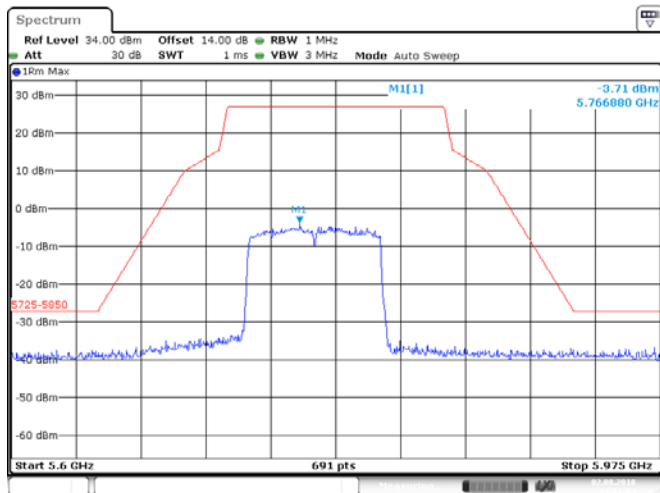
ANT 1(11AC) 5795MHz



ANT 2(11AC) 5795MHz

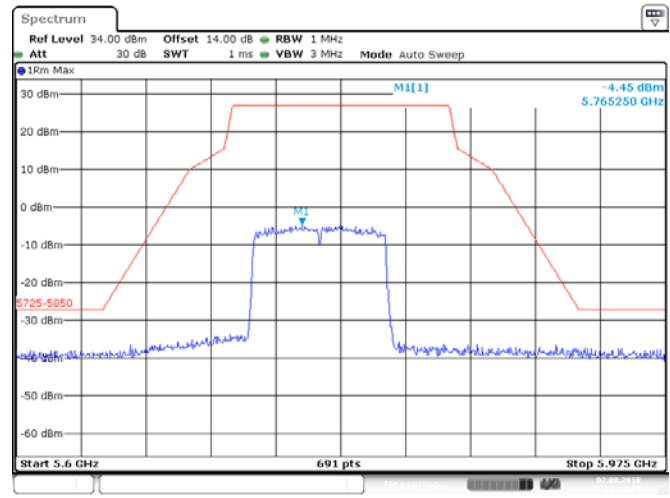


ANT 1(11AC) 5775MHz



Date: 2.AUG.2018 11:17:54

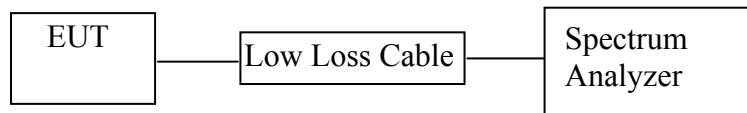
ANT 2(11AC) 5775MHz



Date: 2.AUG.2018 11:18:08

14.FREQUENCIES STABILITY

14.1.Block Diagram of Test Setup



(EUT: UP-Android 7 module)

14.2.EUT Configuration on Measurement

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user manual.

14.3.Operating Condition of EUT

14.3.1.Setup the EUT and simulator as shown as Section 14.1.

14.3.2.Turn on the power of all equipment.

14.3.3.Let the EUT work in TX modes measure it. The transmit frequency are 5150-5250 and 5725-5850MHz.

14.4.Test Result

Test Conditions	Measured Frequency(MHz) 5180
V nor(V)	5180.0077
V max(V)	5180.0081
V min(V)	5180.0092
Max. Deviation Frequency	0.0092
Max. Frequency Error (ppm)	1.78

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency(MHz) 5180
-5	5180.0072
5	5180.0055
15	5180.0039
25	5180.0081
35	5180.0089
45	5180.0051
50	5180.0029
Max. Deviation Frequency	0.0089
Max. Frequency Error (ppm)	1.72

Test Conditions	Measured Frequency(MHz) 5825
V nor(V)	5825.0055
V max(V)	5825.0047
V min(V)	5825.0059
Max. Deviation Frequency	0.0059
Max. Frequency Error (ppm)	1.01

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency(MHz) 5825
-5	5825.0033
5	5825.0051
15	5825.0059
25	5825.0062
35	5825.0041
45	5825.0062
50	5825.0071
Max. Deviation Frequency	0.0071
Max. Frequency Error (ppm)	1.22

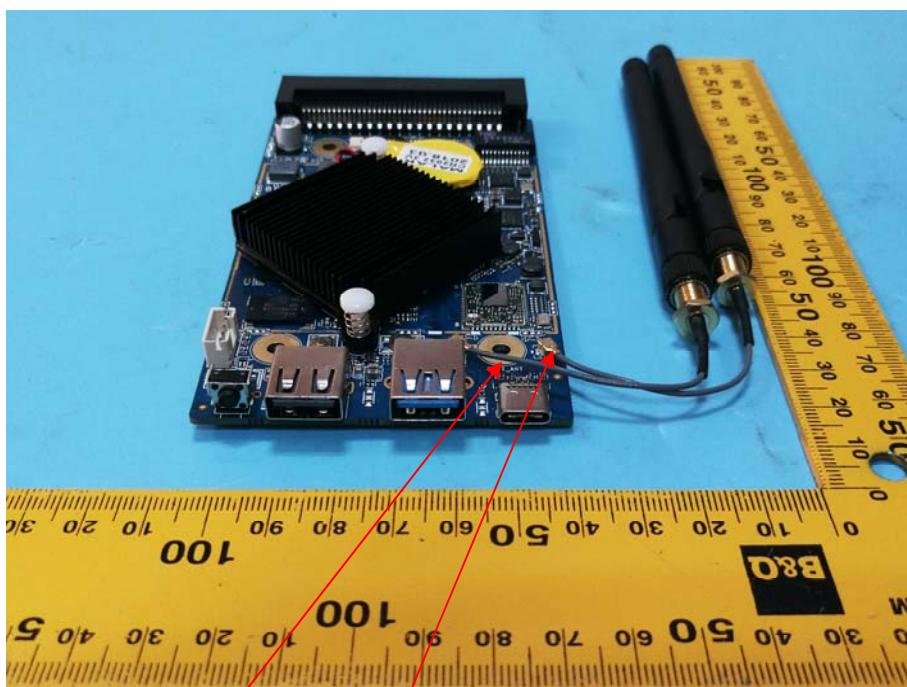
15.ANTENNA REQUIREMENT

15.1.The Requirement

According to Section 15.203, 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.

15.2.Antenna Construction

The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b); The Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement.



Antenna 1

Antenna 2