

## 7.8. Radiated Spurious Emission Measurement

### 7.8.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

### 7.8.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

### 7.8.3. Test Setting

#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW =  $3 * \text{RBW}$
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

7. Trace was allowed to stabilize

**Table 1 - RBW as a function of frequency**

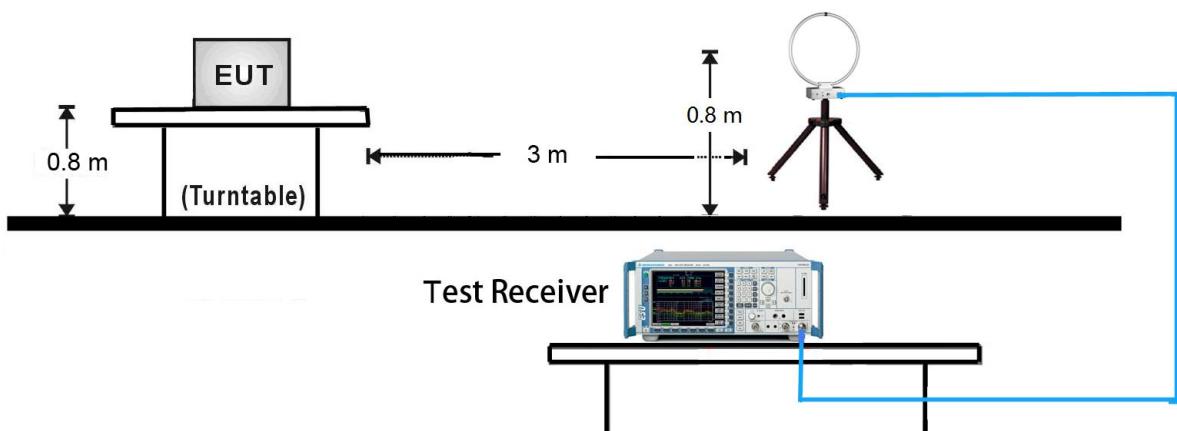
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

#### Average Field Strength Measurements

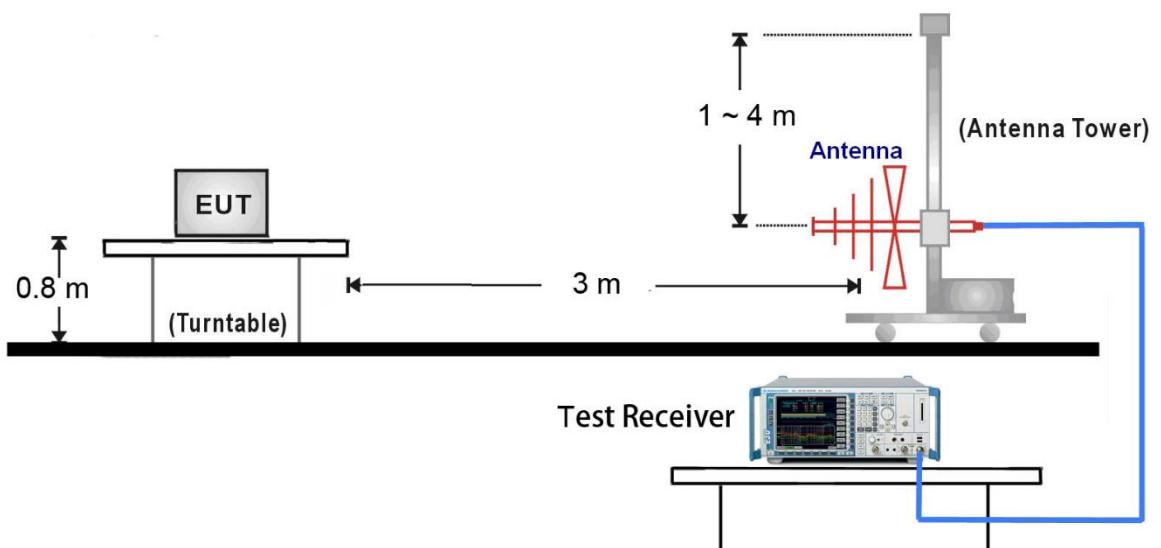
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

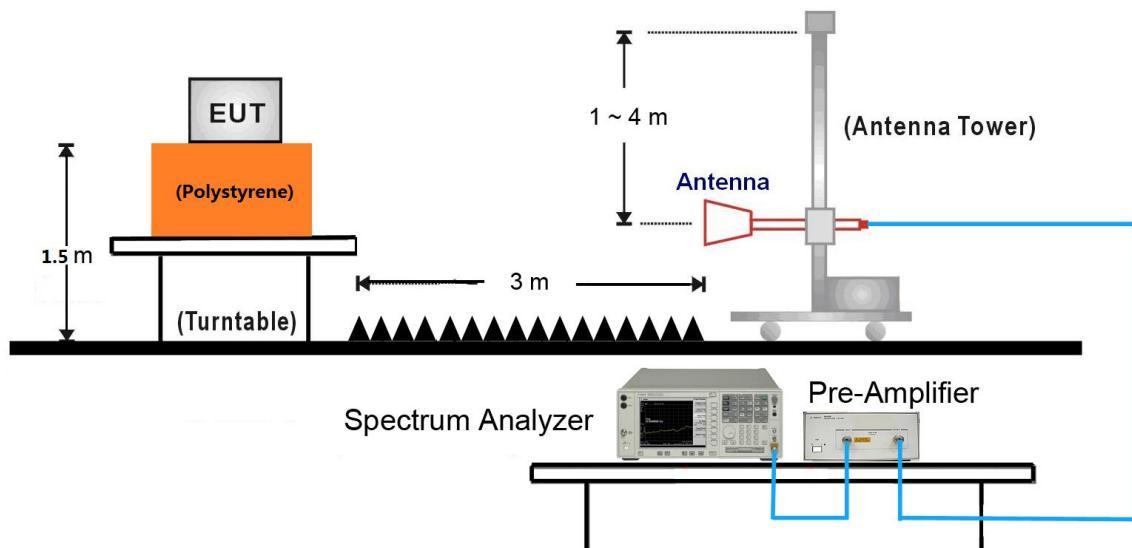
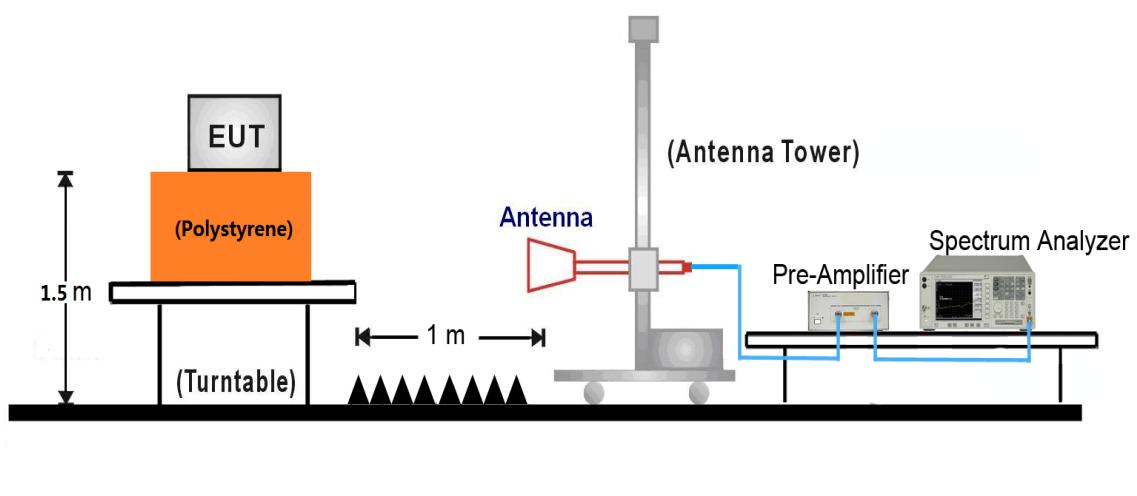
#### 7.8.4. Test Setup

##### 9kHz ~ 30MHz Test Setup:



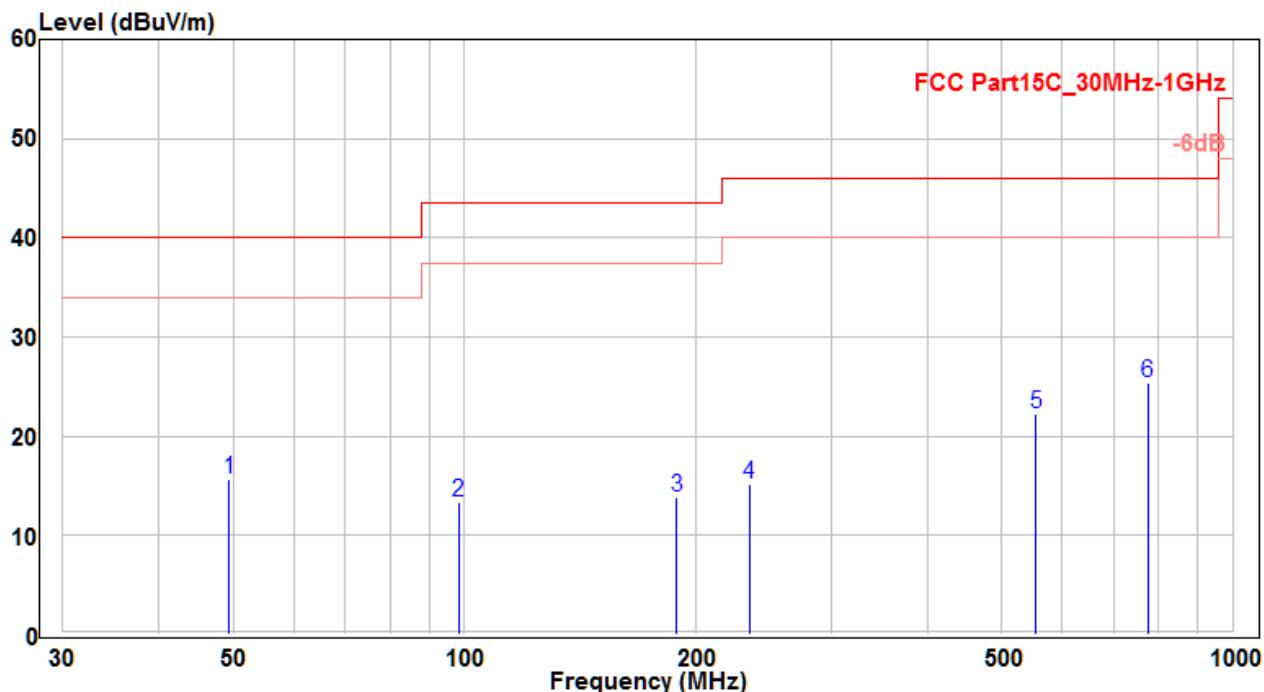
##### 30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

18GHz ~40GHz Test Setup:


### 7.8.5. Test Result

EUT	GT-500	Test Date	2016.10.11
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE1	Test Voltage	By Battery

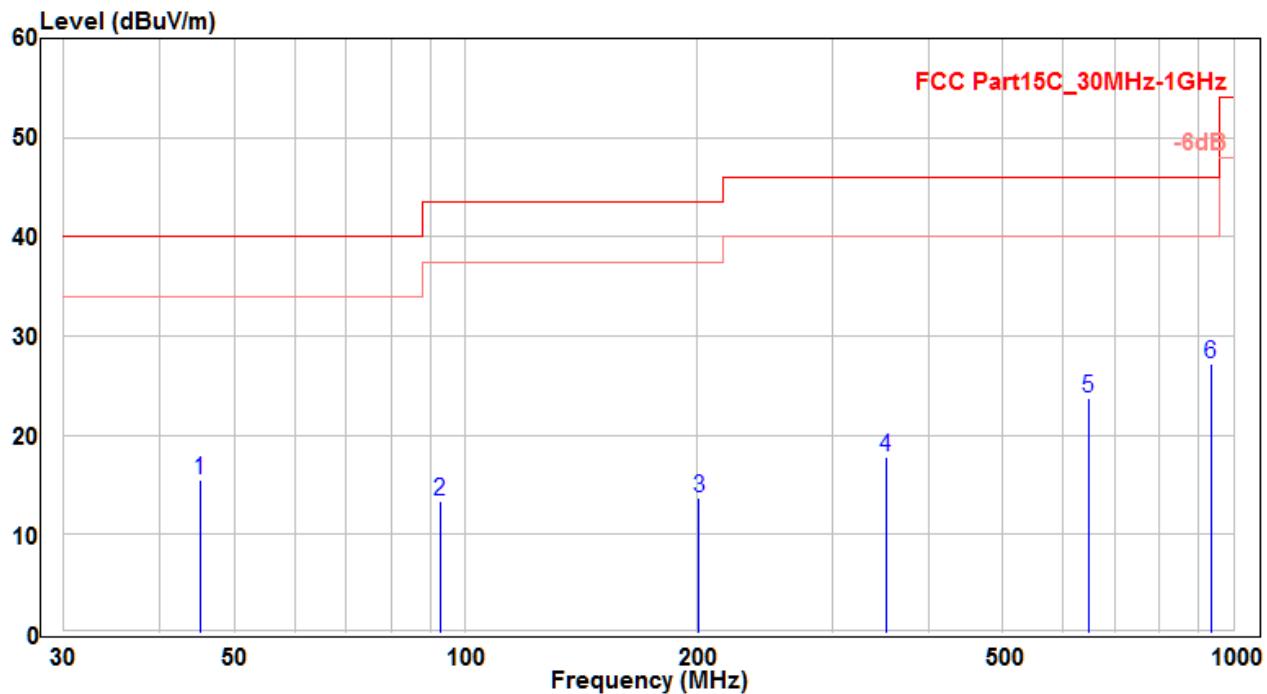


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		49.43	0.5	15.19	15.69	-24.31	40	200	370	QP
2		98.355	0.33	13.03	13.36	-30.14	43.5	100	-5	QP
3		189.019	1.98	11.85	13.83	-29.67	43.5	150	145	QP
4		234.7	1.71	13.39	15.1	-30.9	46	200	205	QP
5		554.588	2.8	19.49	22.29	-23.71	46	100	115	QP
6	*	775.263	2.56	22.84	25.4	-20.6	46	150	55	QP

Note :

- " \* " means the worst value in this measurement data °
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
- The emission levels of other frequencies are very lower than the limit and not show in test report °
- Other channel mode was also verified. The test results shown represent the worst case emissions °
- No emission found between lowest internal used/generated frequency to 30MHz °

EUT	GT-500	Test Date	2016.10.11
Factor	VULB 9162 (30MHz~8GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH39	Test Voltage	By Battery

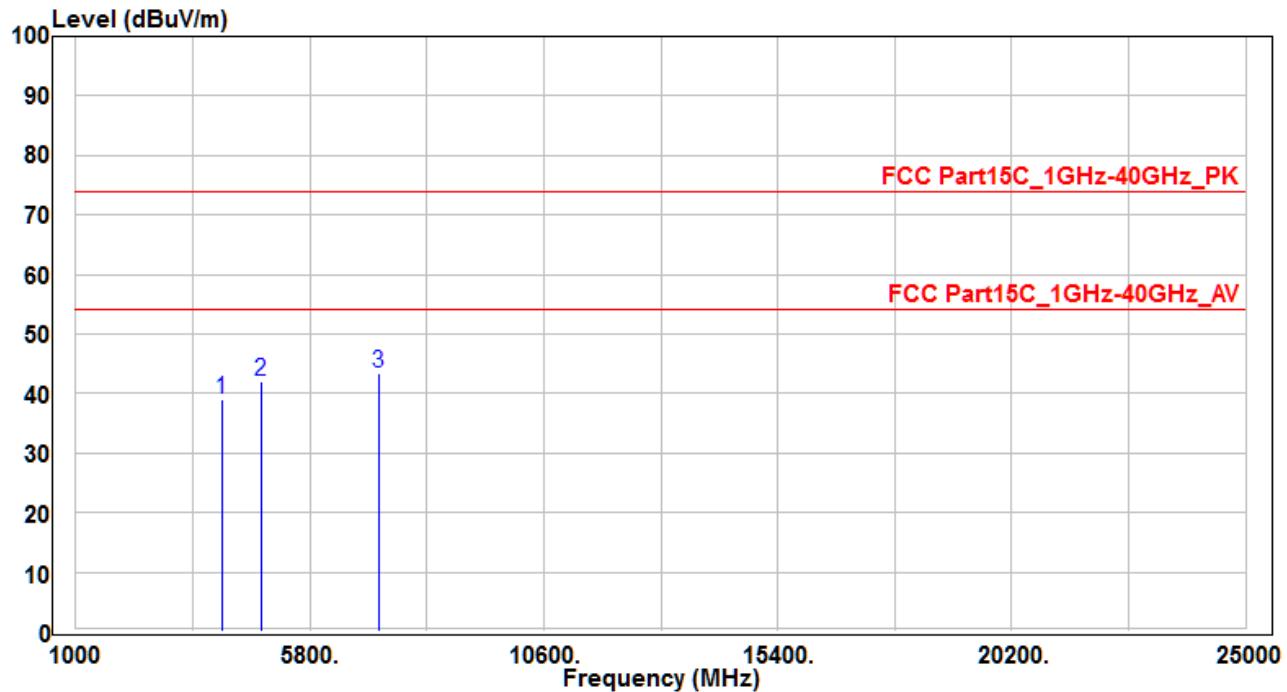


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		45.156	0.53	14.92	15.45	-24.55	40	150	325	QP
2		92.747	1.39	12.01	13.4	-30.1	43.5	100	-30	QP
3		201.266	1.32	12.44	13.76	-29.74	43.5	150	235	QP
4		352.798	1.73	16.09	17.82	-28.18	46	200	380	QP
5		646.193	2.85	20.89	23.74	-22.26	46	100	65	QP
6	*	933.373	2.61	24.66	27.27	-18.73	46	200	-15	QP

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °
5. Other channel mode was also verified. The test results shown represent the worst case emissions °
6. No emission found between lowest internal used/generated frequency to 30MHz °

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH00	Test Voltage	By Battery

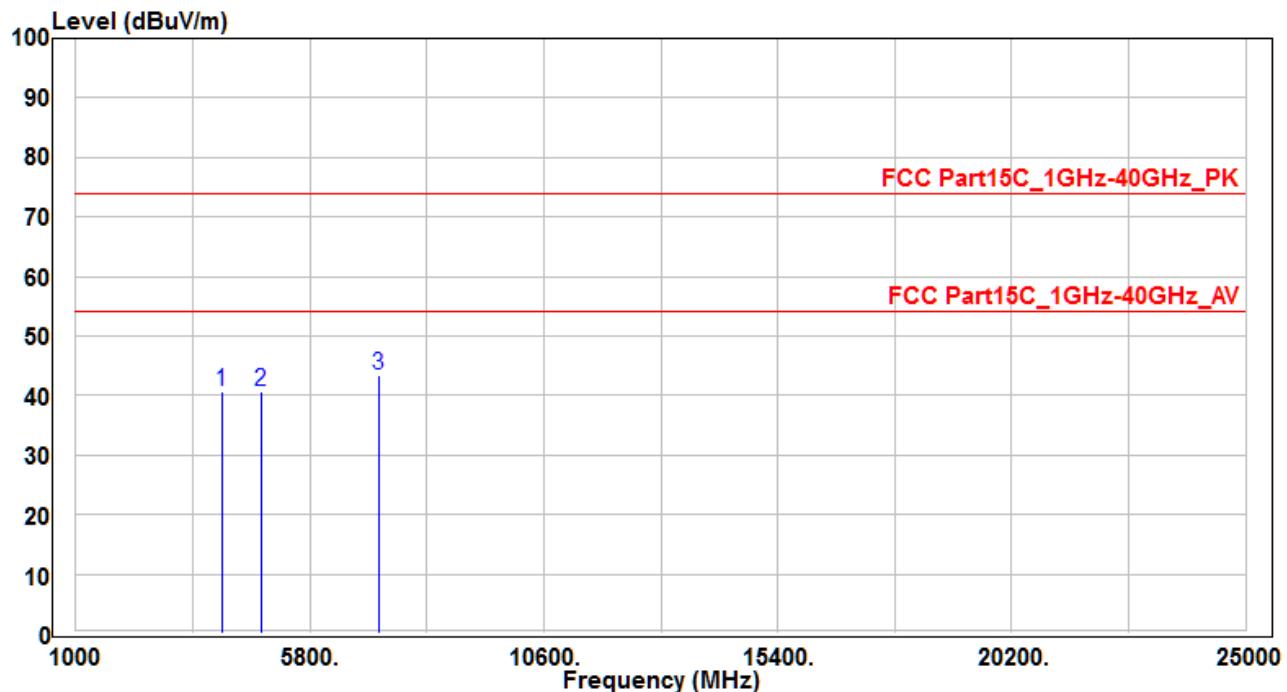


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	38.64	0.39	39.03	-34.97	74	400	400	Peak
2		4804	38.43	3.67	42.1	-31.9	74	400	400	Peak
3	*	7206	31.33	12.1	43.43	-30.57	74	400	400	Peak

Note :

- " \* " means the worst value in this measurement data .
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) .
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) .
- The emission levels of other frequencies are very lower than the limit and not show in test report .

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH00	Test Voltage	By Battery

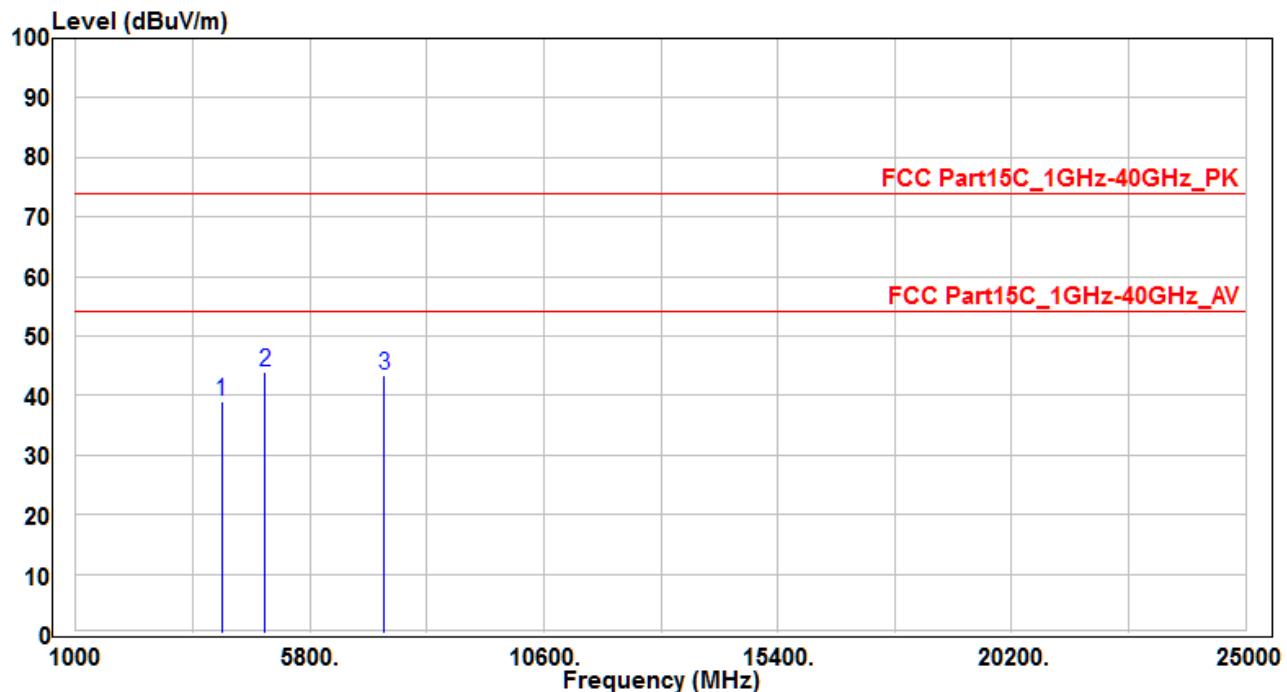


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	40.39	0.39	40.78	-33.22	74	400	400	Peak
2		4804	36.95	3.67	40.62	-33.38	74	400	400	Peak
3	*	7206	31.37	12.1	43.47	-30.53	74	400	400	Peak

Note :

- " \* " means the worst value in this measurement data °
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
- The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH39	Test Voltage	By Battery

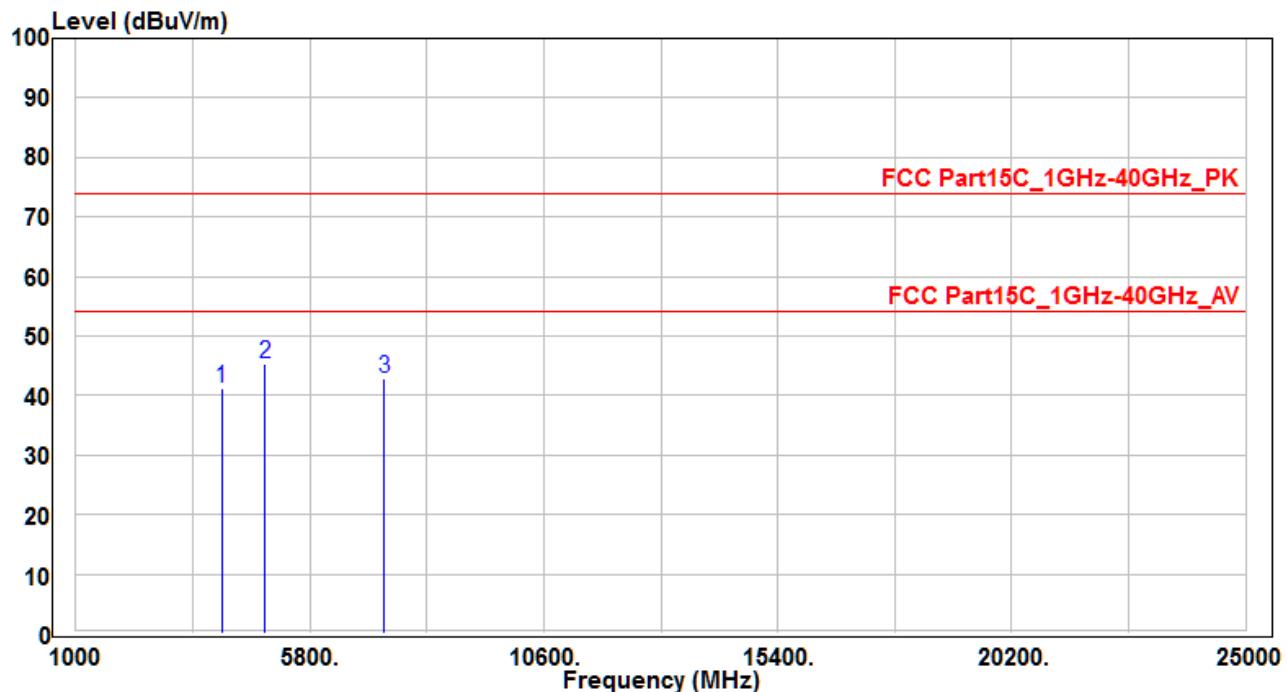


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	38.53	0.39	38.92	-35.08	74	400	400	Peak
2		4882	40.27	3.66	43.93	-30.07	74	400	400	Peak
3	*	7323	31.1	12.37	43.47	-30.53	74	400	400	Peak

Note :

- " \* " means the worst value in this measurement data .
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) .
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) .
- The emission levels of other frequencies are very lower than the limit and not show in test report .

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH39	Test Voltage	By Battery

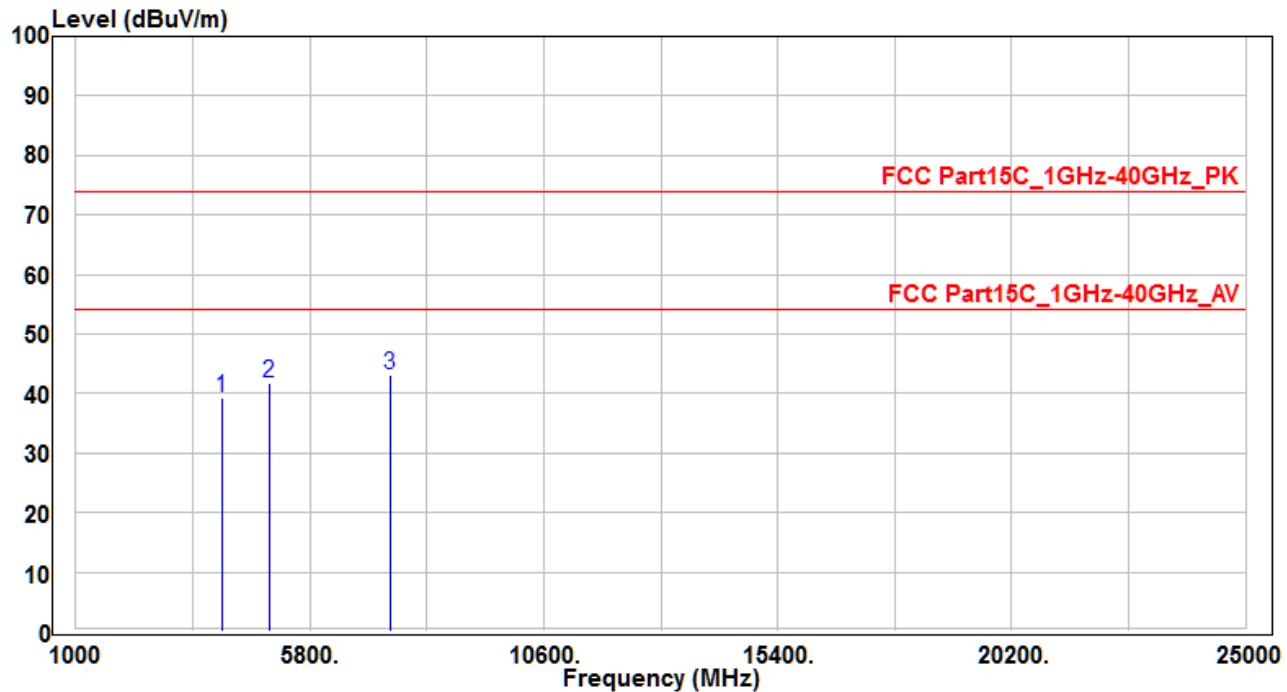


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	40.87	0.39	41.26	-32.74	74	400	400	Peak
2		4882	41.64	3.66	45.3	-28.7	74	400	400	Peak
3	*	7323	30.41	12.37	42.78	-31.22	74	400	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH78	Test Voltage	By Battery

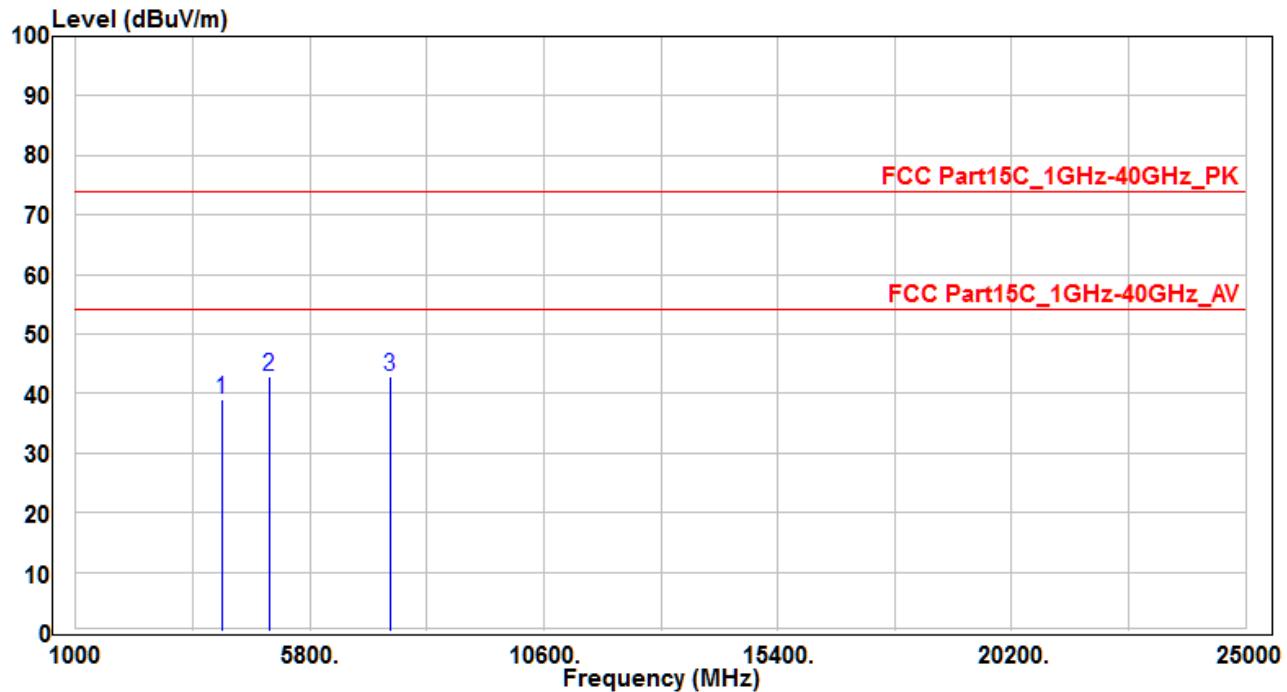


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	38.89	0.39	39.28	-34.72	74	400	400	Peak
2		4960	38.14	3.7	41.84	-32.16	74	400	400	Peak
3	*	7440	30.45	12.72	43.17	-30.83	74	400	400	Peak

Note :

- " \* " means the worst value in this measurement data .
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) .
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) .
- The emission levels of other frequencies are very lower than the limit and not show in test report .

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH78	Test Voltage	By Battery

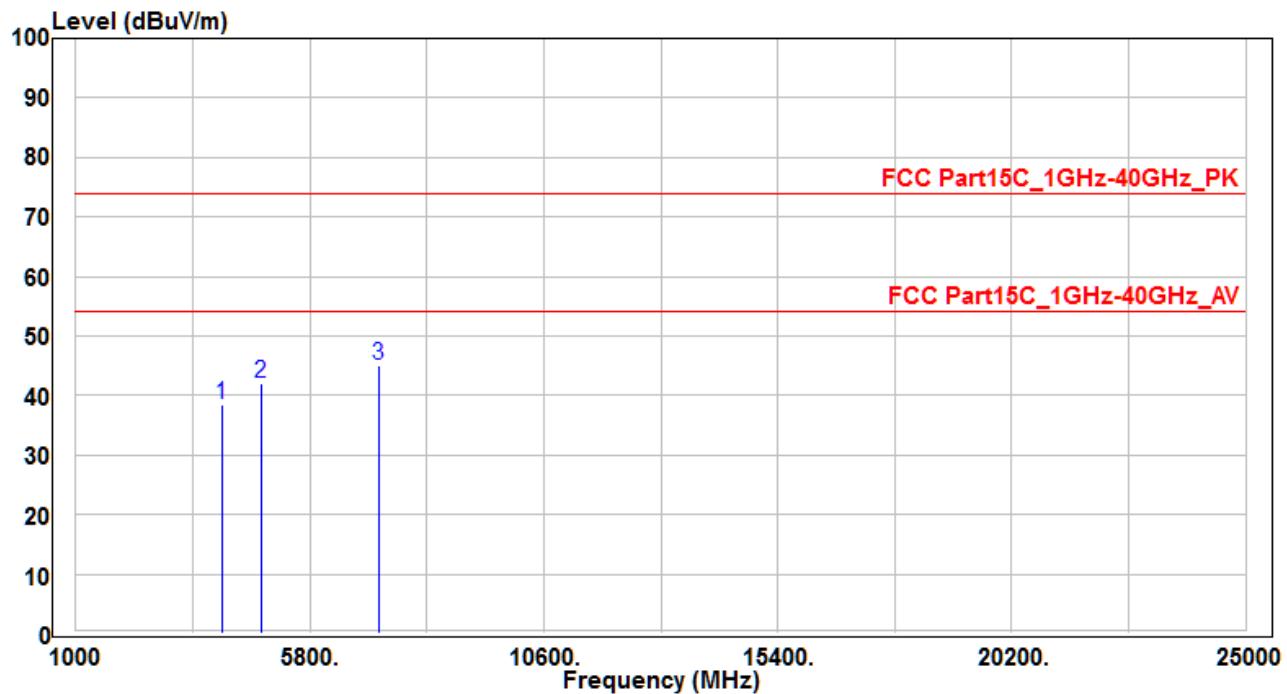


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	38.69	0.39	39.08	-34.92	74	400	400	Peak
2		4960	39.28	3.7	42.98	-31.02	74	400	400	Peak
3	*	7440	30.09	12.72	42.81	-31.19	74	400	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH00	Test Voltage	By Battery

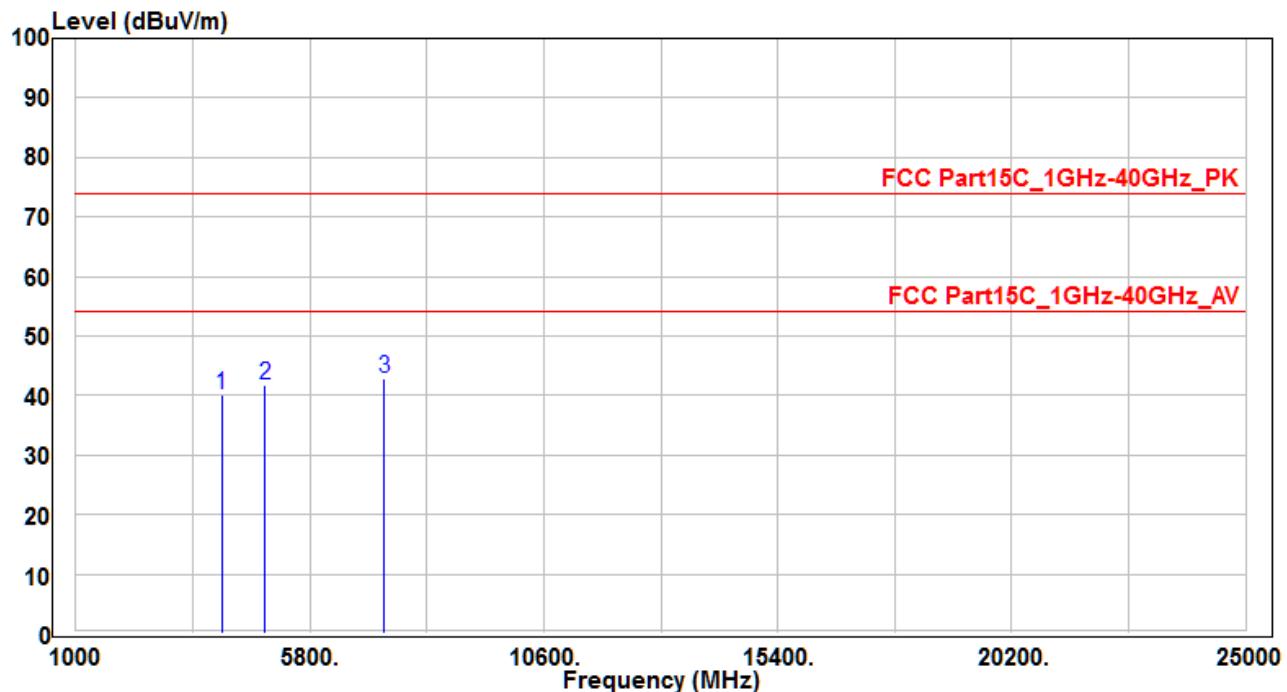


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	37.95	0.39	38.34	-35.66	74	400	400	Peak
2		4804	38.45	3.67	42.12	-31.88	74	400	400	Peak
3	*	7206	32.83	12.1	44.93	-29.07	74	400	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH00	Test Voltage	By Battery

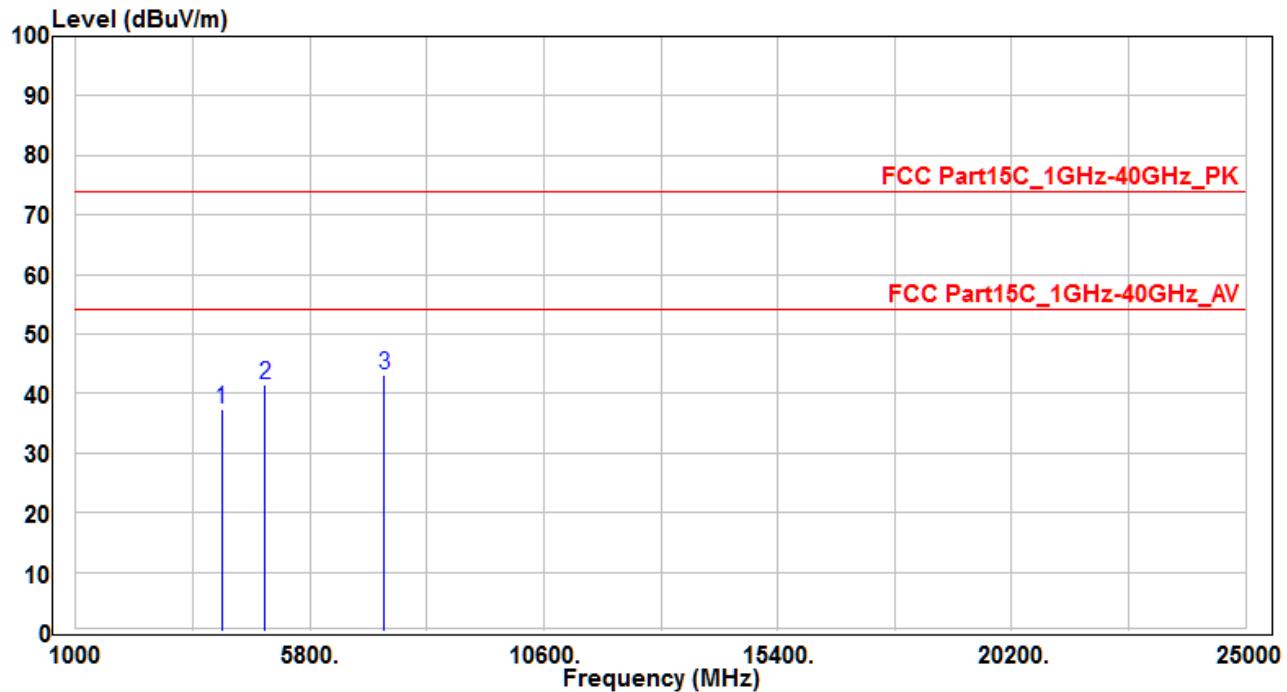


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	41.05	0.39	41.44	-32.56	74	400	400	Peak
2		4804	36.87	3.67	40.54	-33.46	74	400	400	Peak
3	*	7206	31.16	12.1	43.26	-30.74	74	400	400	Peak

Note :

- " \* " means the worst value in this measurement data °
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
- The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH39	Test Voltage	By Battery

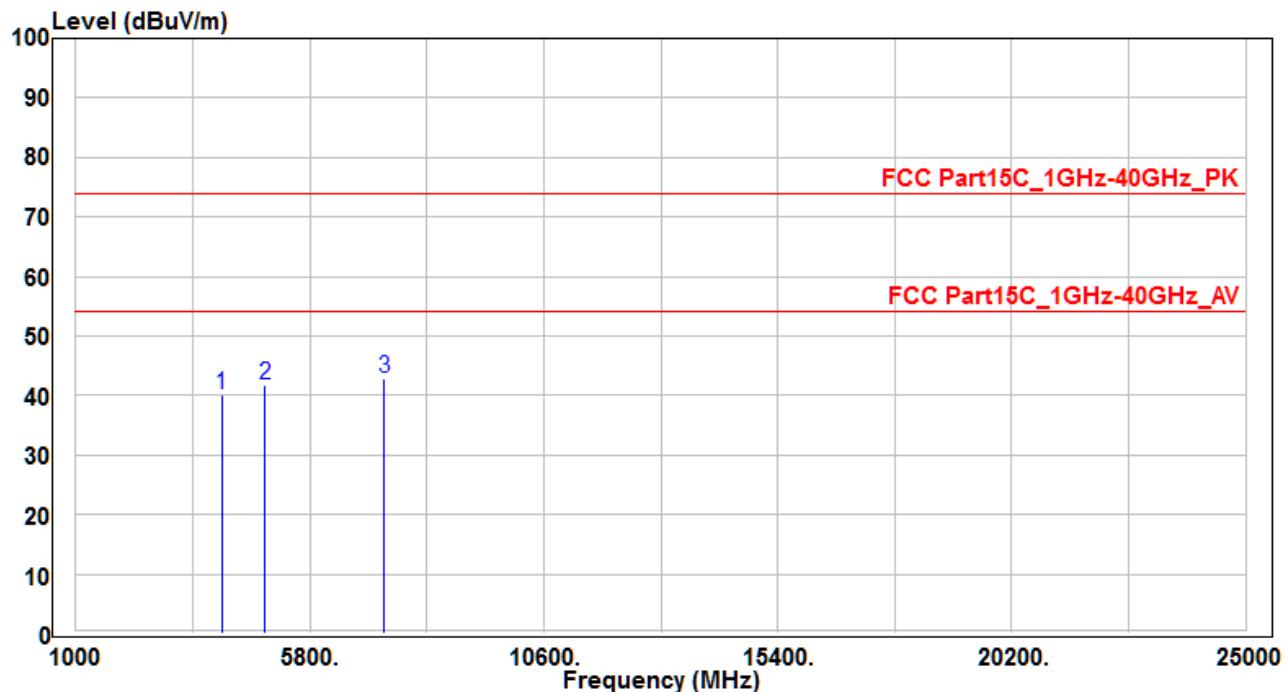


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	37.05	0.39	37.44	-36.56	74	400	400	Peak
2		4882	37.93	3.66	41.59	-32.41	74	400	400	Peak
3	*	7323	30.77	12.37	43.14	-30.86	74	400	400	Peak

Note :

- " \* " means the worst value in this measurement data °
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
- The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH39	Test Voltage	By Battery

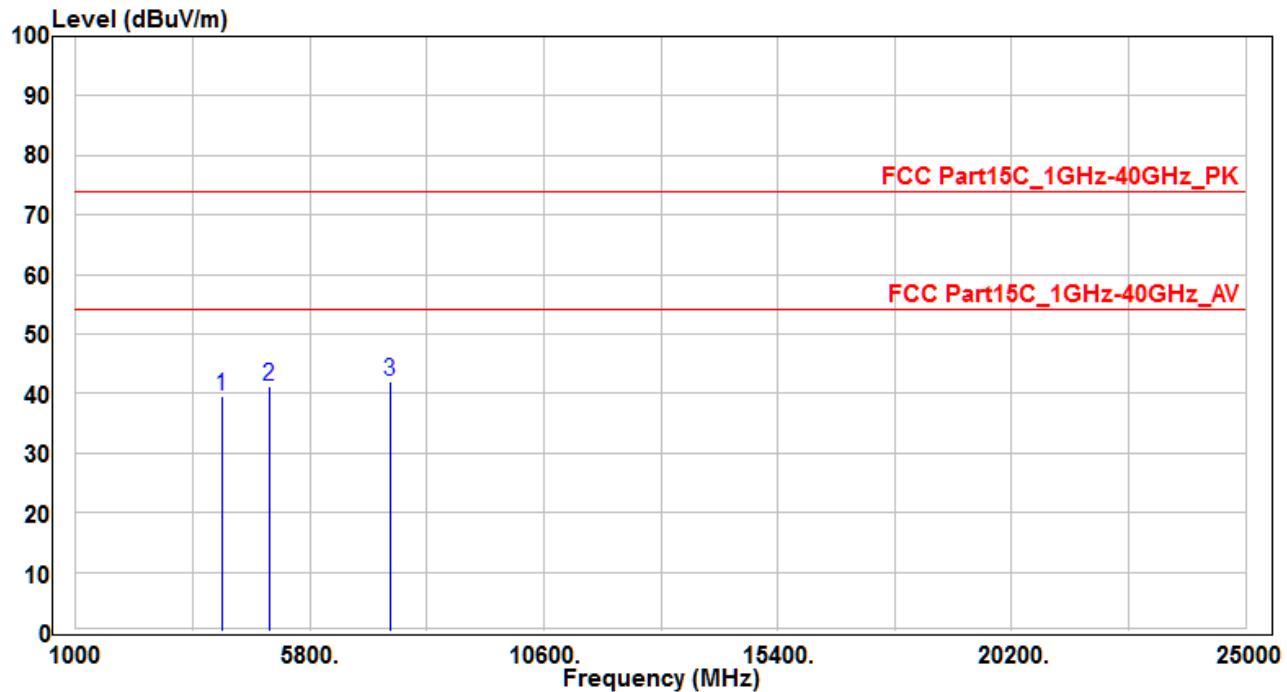


No		Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	39.76	0.39	40.15	-33.85	74	400	400	Peak
2		4882	38.17	3.66	41.83	-32.17	74	400	400	Peak
3	*	7323	30.5	12.37	42.87	-31.13	74	400	400	Peak

Note :

- " \* " means the worst value in this measurement data °
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
- The emission levels of other frequencies are very lower than the limit and not show in test report °

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH78	Test Voltage	By Battery

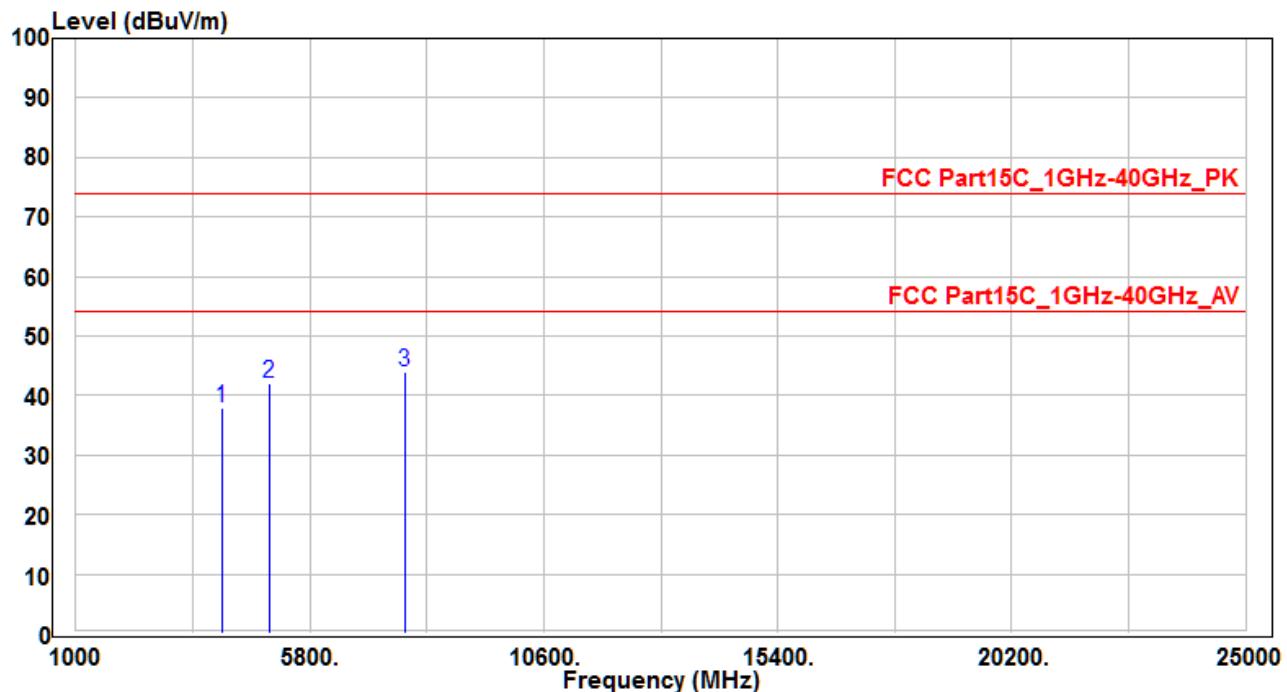


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	39.27	0.39	39.66	-34.34	74	400	400	Peak
2		4960	37.5	3.7	41.2	-32.8	74	400	400	Peak
3	*	7440	29.43	12.72	42.15	-31.85	74	400	400	Peak

Note :

- " \* " means the worst value in this measurement data .
- Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) .
- Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) .
- The emission levels of other frequencies are very lower than the limit and not show in test report .

EUT	GT-500	Test Date	2016.10.11
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	25°C / 60%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH78	Test Voltage	By Battery



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4000	37.55	0.39	37.94	-36.06	74	400	400	Peak
2		4960	38.4	3.7	42.1	-31.9	74	400	400	Peak
3	*	7740	31.5	12.39	43.89	-30.11	74	400	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB) °
3. Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) °
4. The emission levels of other frequencies are very lower than the limit and not show in test report °

## 7.9. Radiated Restricted Band Edge Measurement

### 7.9.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

### 7.9.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

### 7.9.3. Test Setting

#### Peak Field Strength Measurements

8. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
9. RBW = as specified in Table 1
10. VBW =  $3 * \text{RBW}$
11. Detector = peak
12. Sweep time = auto couple
13. Trace mode = max hold

14. Trace was allowed to stabilize

**Table 1 - RBW as a function of frequency**

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

**Average Field Strength Measurements**

9. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

10. RBW = 1MHz

11. VBW  $\geq 1/T$

12. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode

13. Detector = Peak

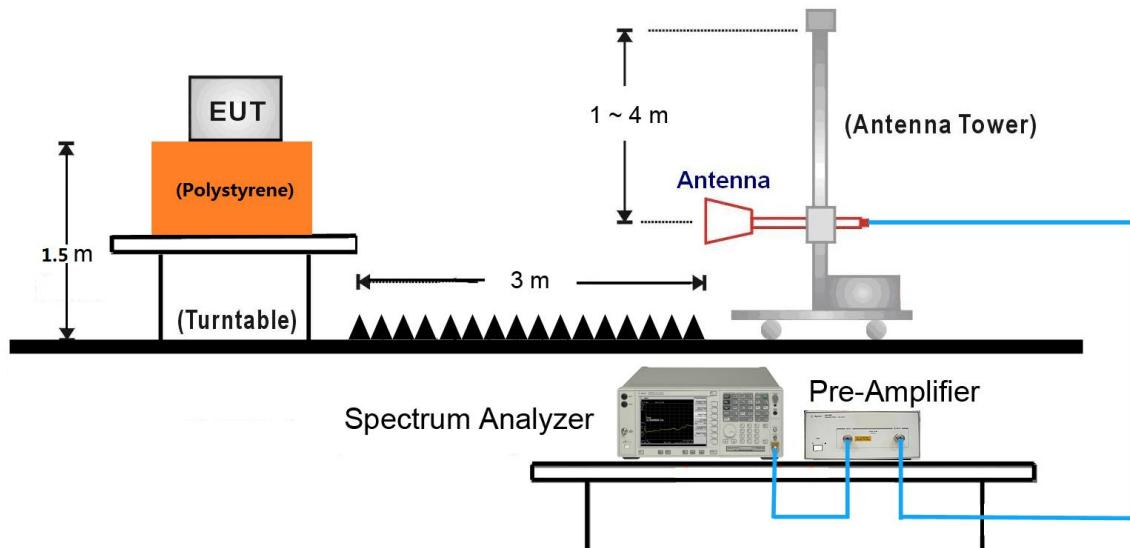
14. Sweep time = auto

15. Trace mode = max hold

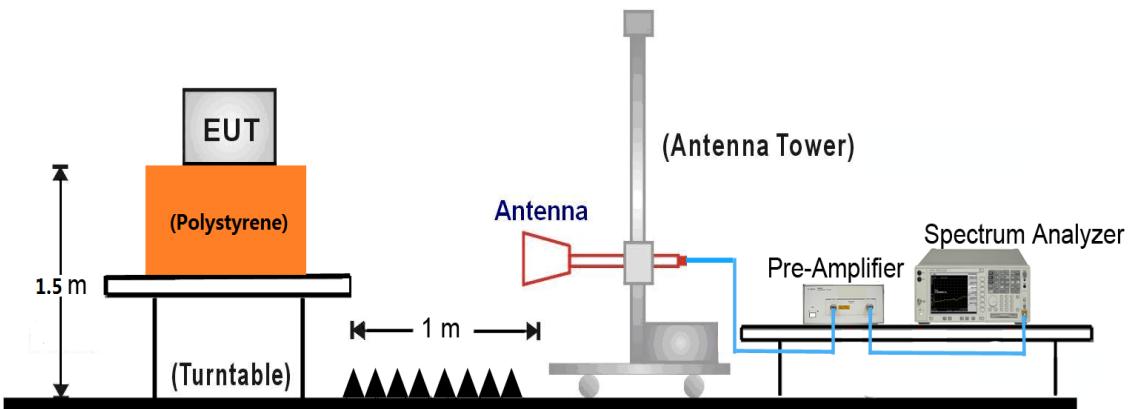
16. Allow max hold to run for at least 50 times (1/duty cycle) traces

#### 7.9.4. Test Setup

##### 1GHz ~ 18GHz Test Setup:

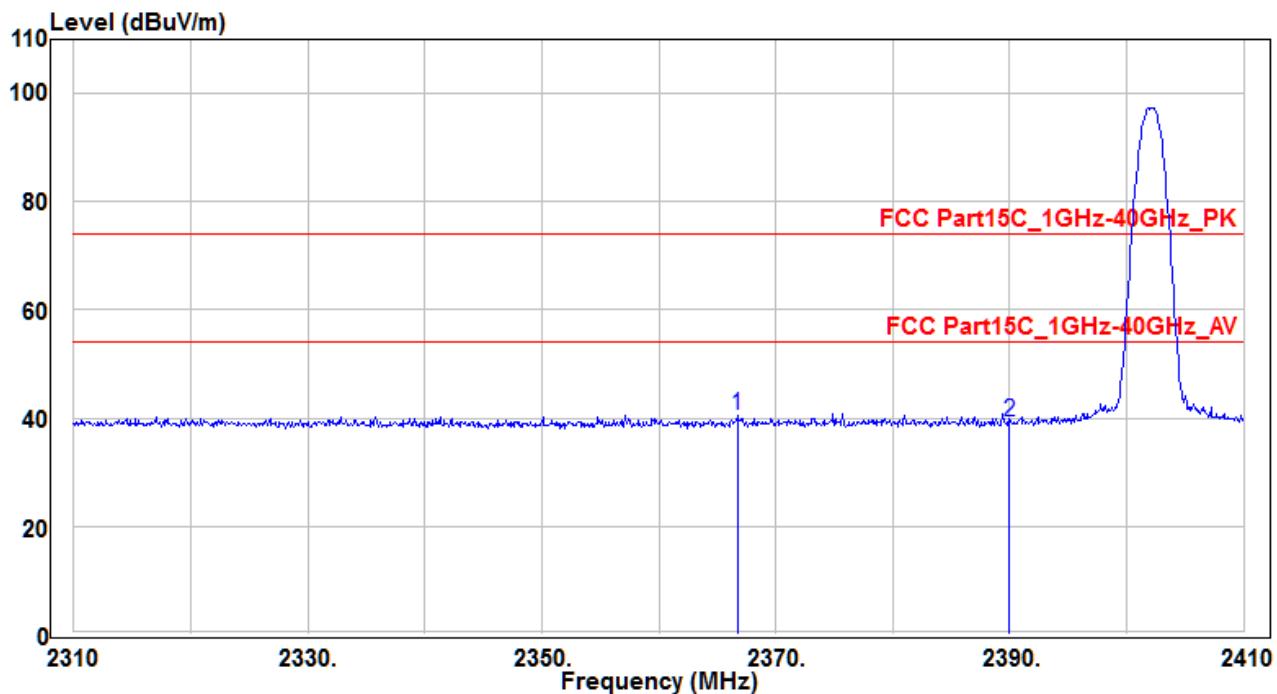


##### 18GHz ~40GHz Test Setup:



### 7.9.5. Test Result

EUT	GT-500	Test Date	2016.10.09
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH00	Test Voltage	By Battery

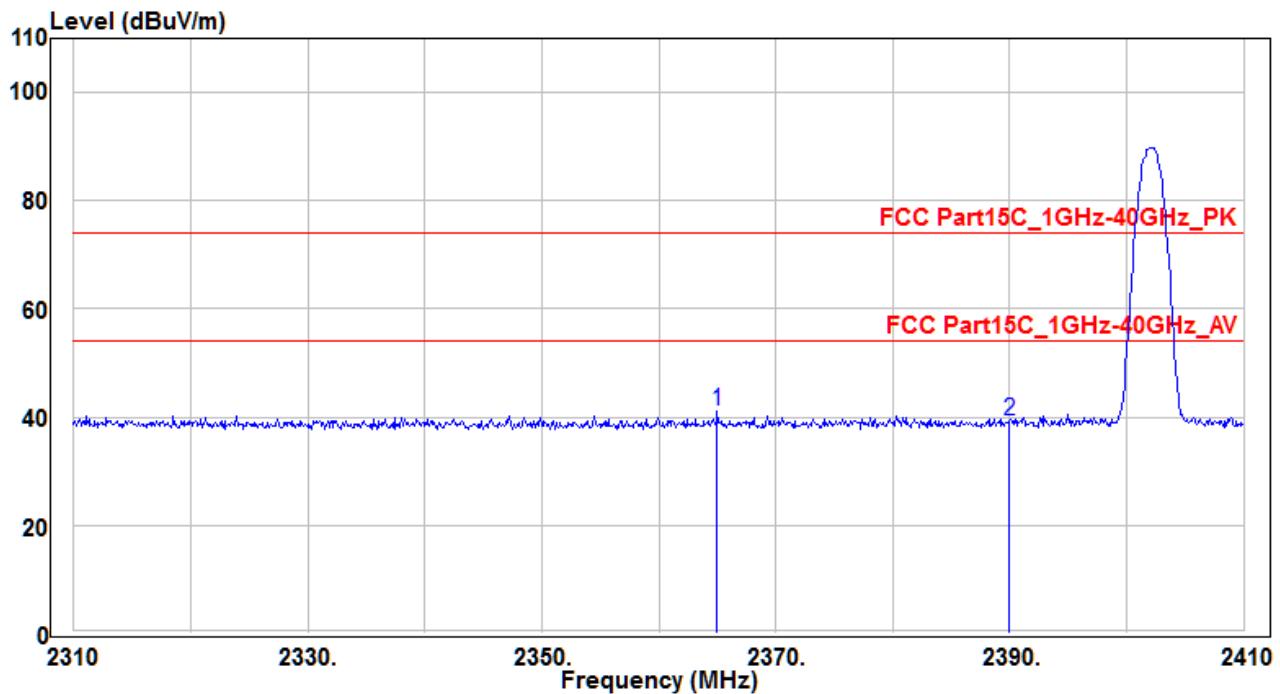


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2366.7	42.36	-1.77	40.59	-33.41	74	150	310	Peak
2		2390	41.12	-1.84	39.28	-34.72	74	150	310	Peak

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) .

EUT	GT-500	Test Date	2016.10.09
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH00	Test Voltage	By Battery

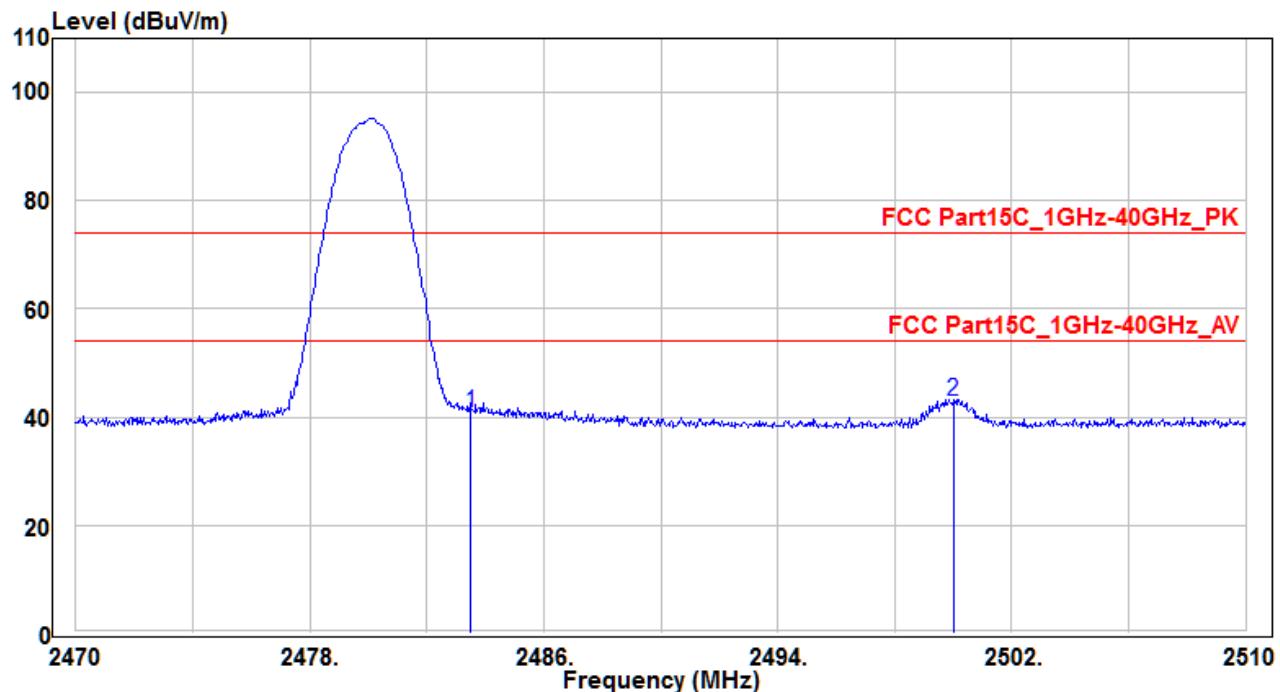


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2365	42.74	-1.77	40.97	-33.03	74	150	400	Peak
2		2390	41.15	-1.84	39.31	-34.69	74	150	400	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) °

EUT	GT-500	Test Date	2016.10.09
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH78	Test Voltage	By Battery

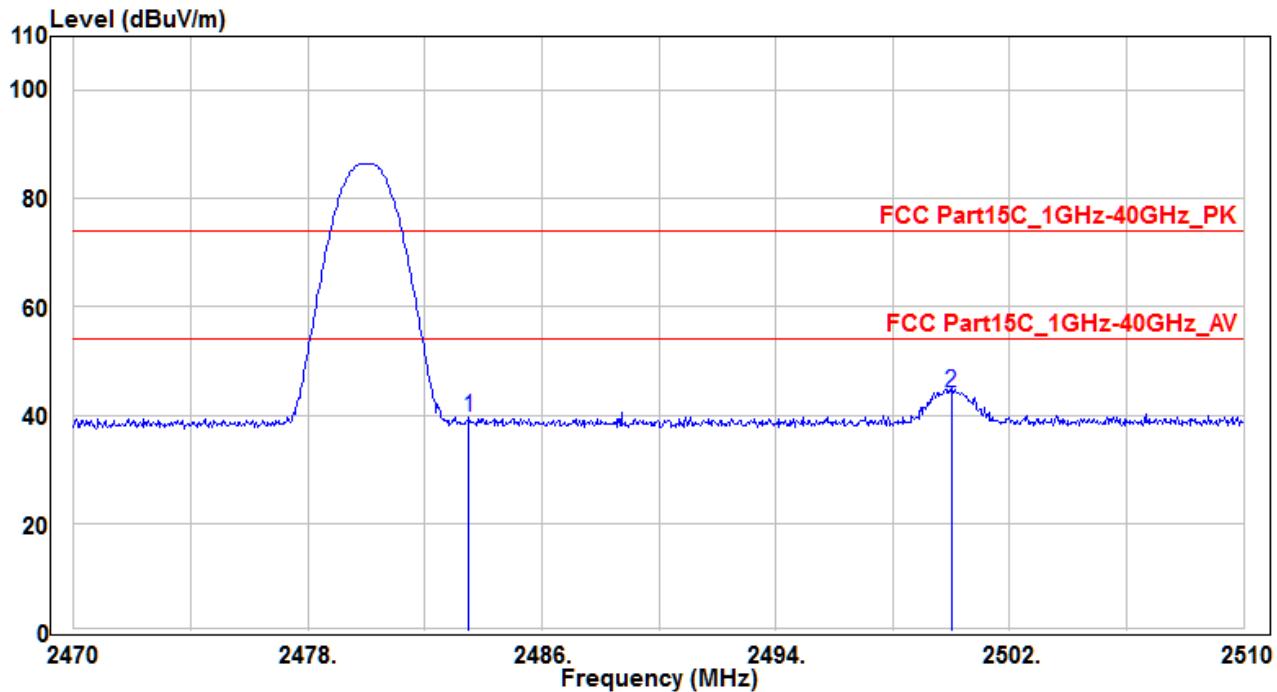


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2483.5	42.74	-2.08	40.66	-33.34	74	150	195	Peak
2	*	2500	45.1	-2.08	43.02	-30.98	74	150	195	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) °

EUT	GT-500	Test Date	2016.10.09
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE1-CH78	Test Voltage	By Battery

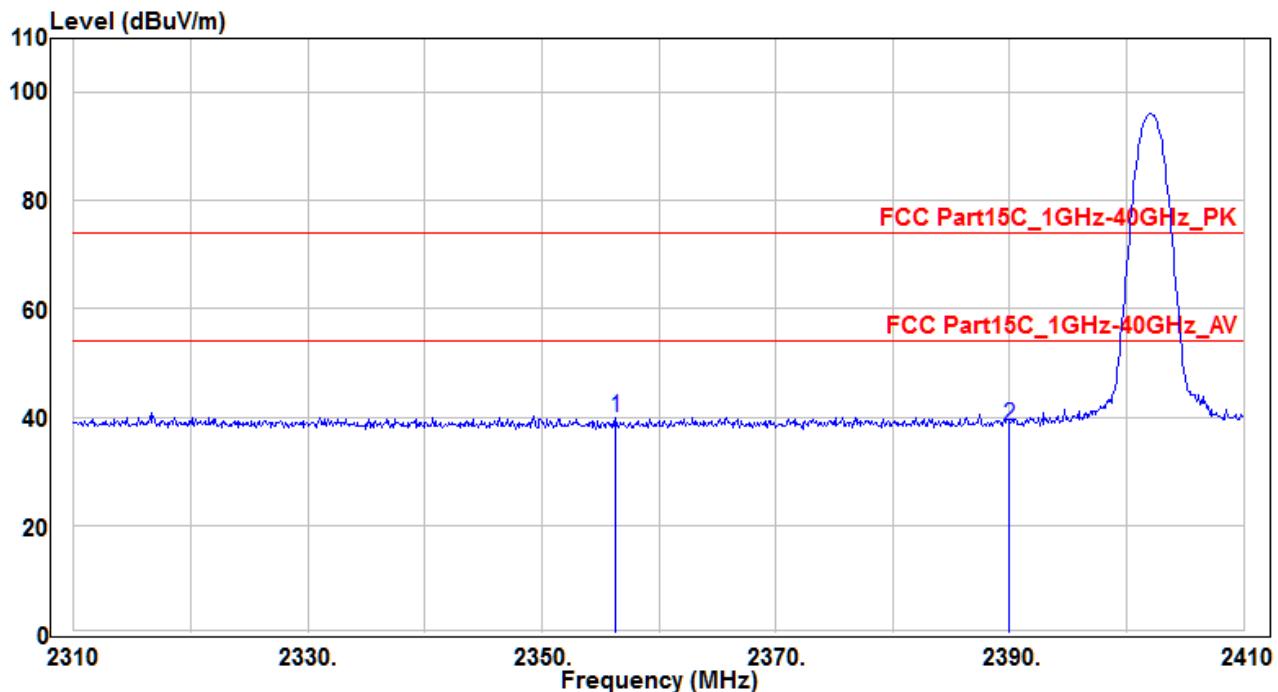


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2483.5	41.71	-2.08	39.63	-34.37	74	150	315	Peak
2	*	2500	46.26	-2.08	44.18	-29.82	74	150	315	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) °

EUT	GT-500	Test Date	2016.10.09
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH00	Test Voltage	By Battery

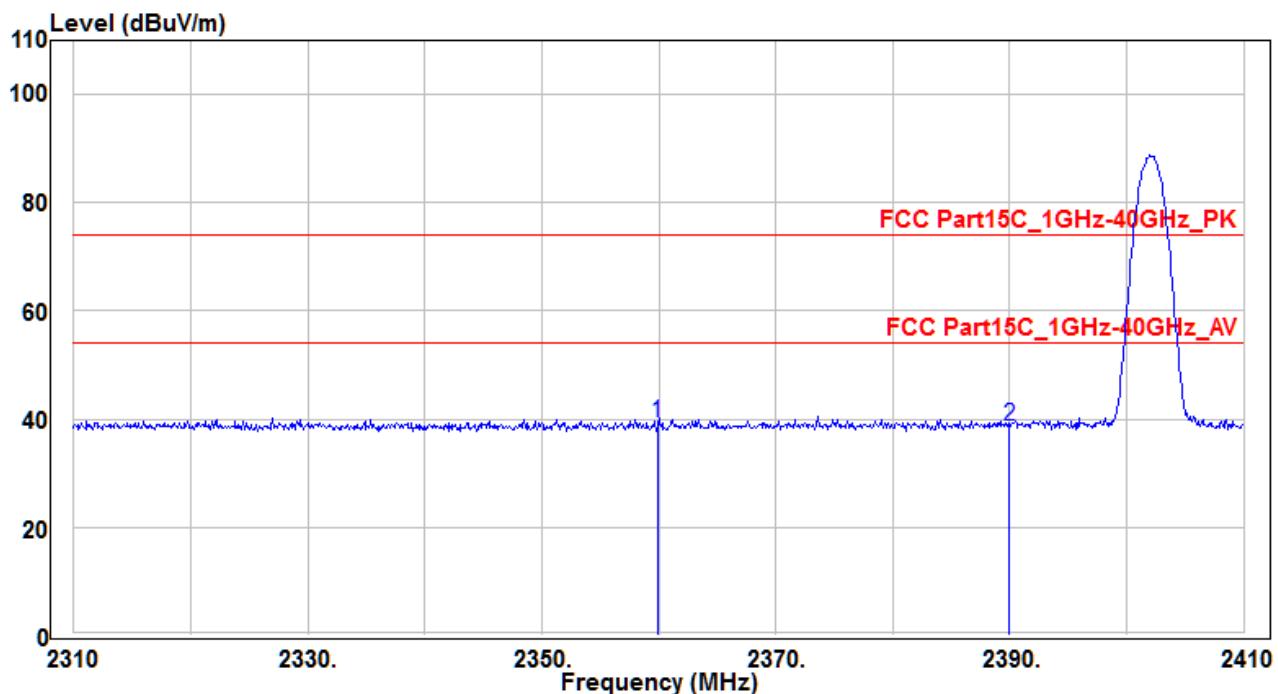


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2356.3	41.55	-1.75	39.8	-34.2	74	150	180	Peak
2		2390	40.27	-1.84	38.43	-35.57	74	150	180	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) °

EUT	GT-500	Test Date	2016.10.09
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH00	Test Voltage	By Battery

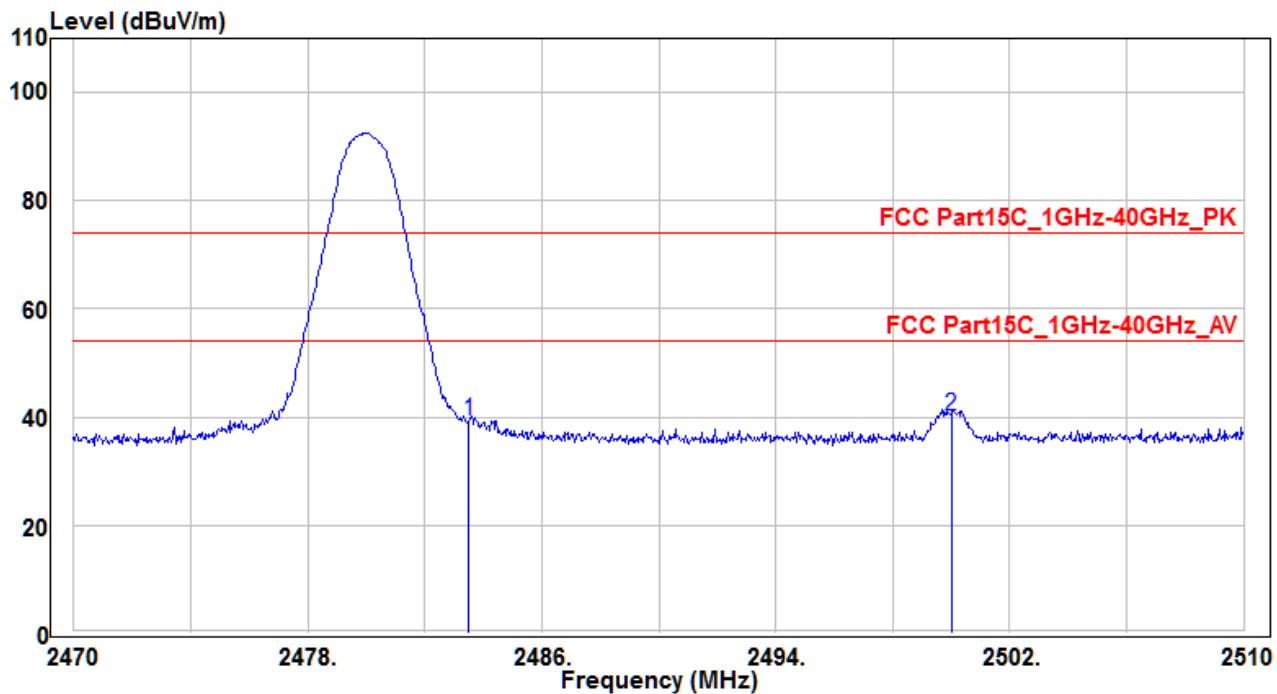


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	2359.9	41.18	-1.76	39.42	-34.58	74	150	290	Peak
2		2390	40.57	-1.84	38.73	-35.27	74	150	290	Peak

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) .
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) .

EUT	GT-500	Test Date	2016.10.09
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Horizontal	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH78	Test Voltage	By Battery

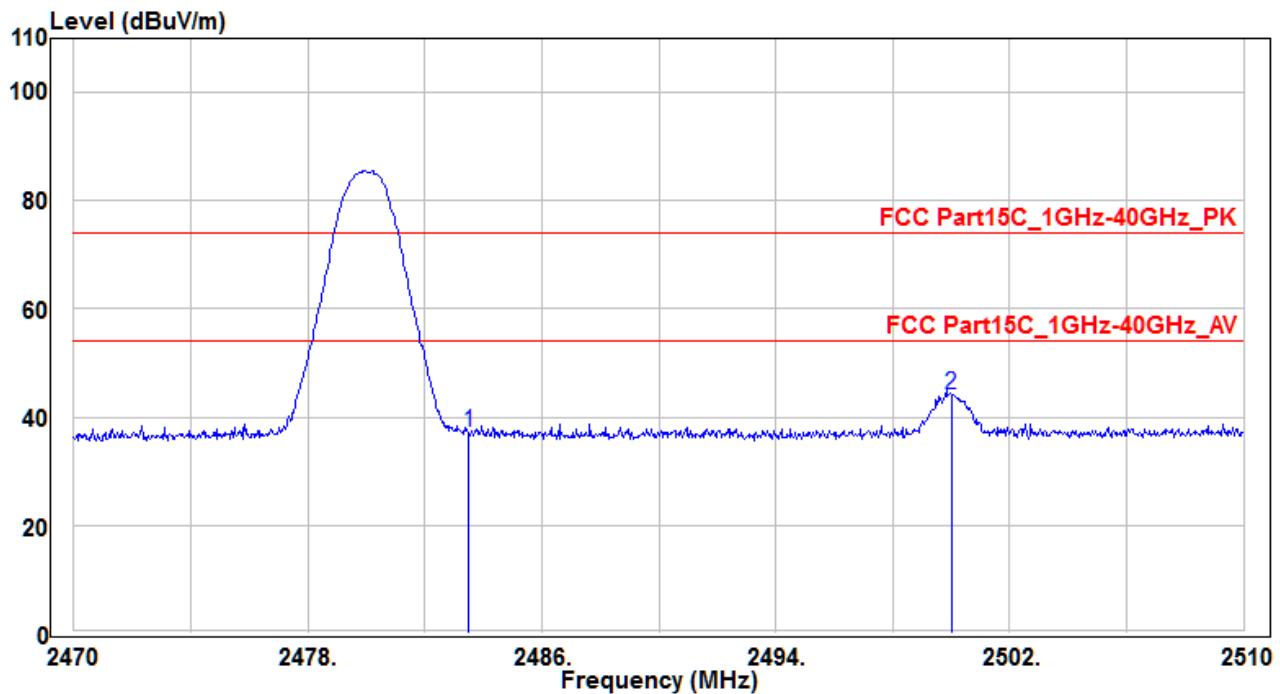


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2483.52	41.51	-2.08	39.43	-34.57	74	150	190	Peak
2	*	2500	42.42	-2.08	40.34	-33.66	74	150	190	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) °

EUT	GT-500	Test Date	2016.10.09
Factor	BBHA 9120D (1GHz~18GHz)	Temp. / Humidity	21°C / 57%
Polarity	Vertical	Site / Engineer	AC1 / Kevin
Test Mode	MODE2-CH78	Test Voltage	By Battery



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		2483.52	39.14	-2.08	37.06	-36.94	74	150	280	Peak
2	*	2500	46.08	-2.08	44	-30	74	150	280	Peak

Note :

1. " \* " means the worst value in this measurement data °
2. C.F ( Correction Factor ) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB) °
3. Measurement (dBuV/m) = Reading(dBuV) + C.F ( Correction Factor ) °

## 7.10. AC Conducted Emissions Measurement

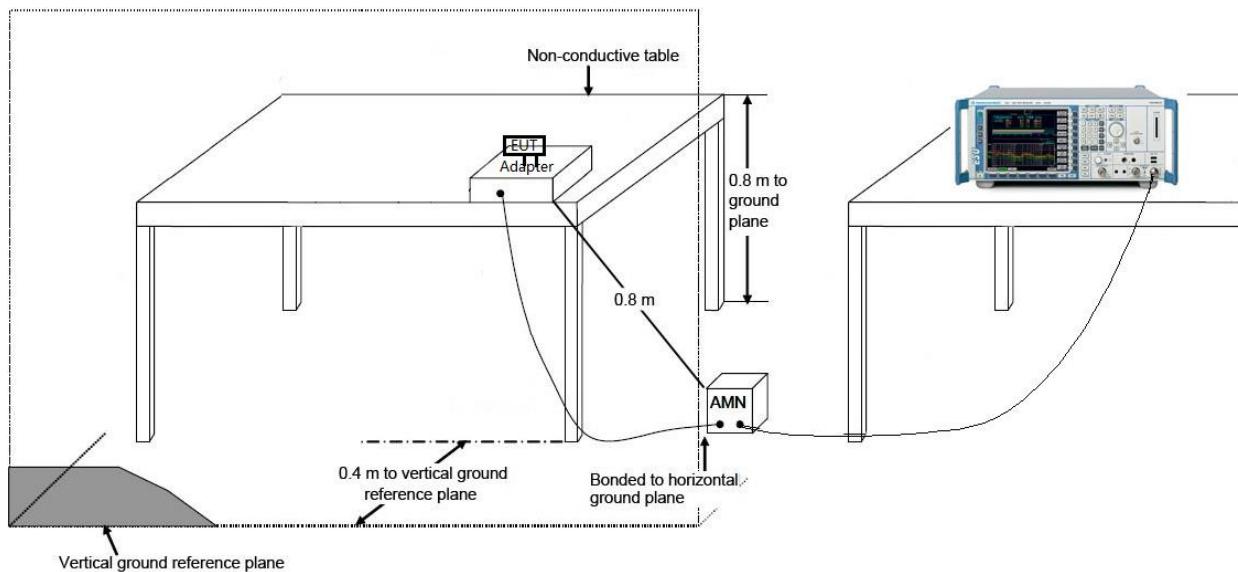
### 7.10.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen Limits		
Frequency (MHz)	QP (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

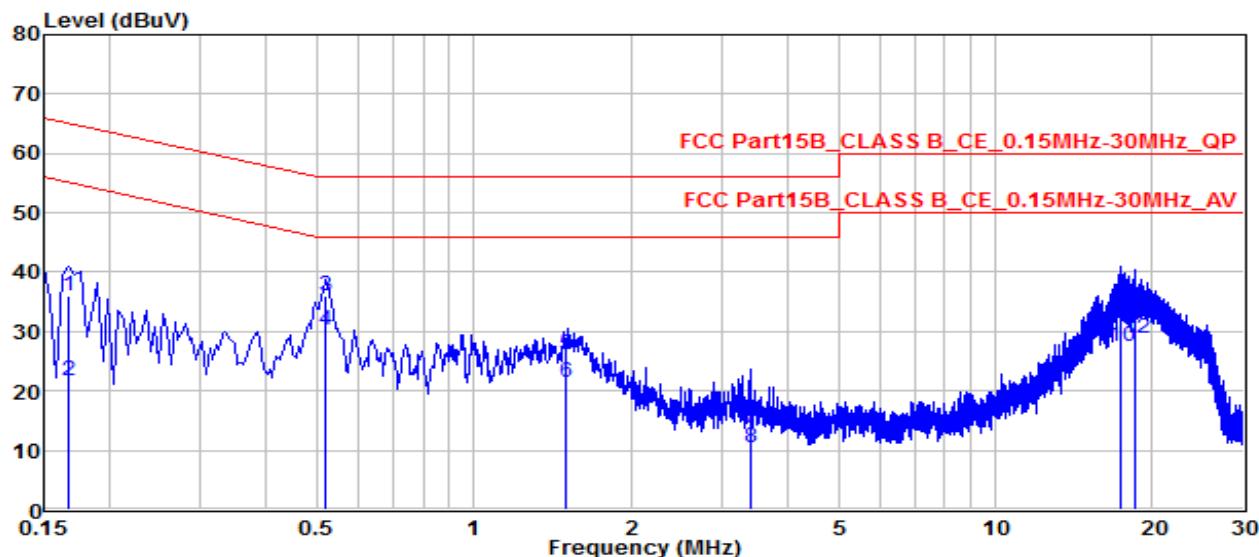
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.10.2. Test Setup



### 7.10.3. Test Result

EUT	GT-500	Test Date	2016.10.24
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	24°C / 55%
Polarity	Line1	Site / Engineer	SR2 / Kevin
Test Mode	MODE1-CH39	Test Voltage	AC120V/60Hz(By NB)

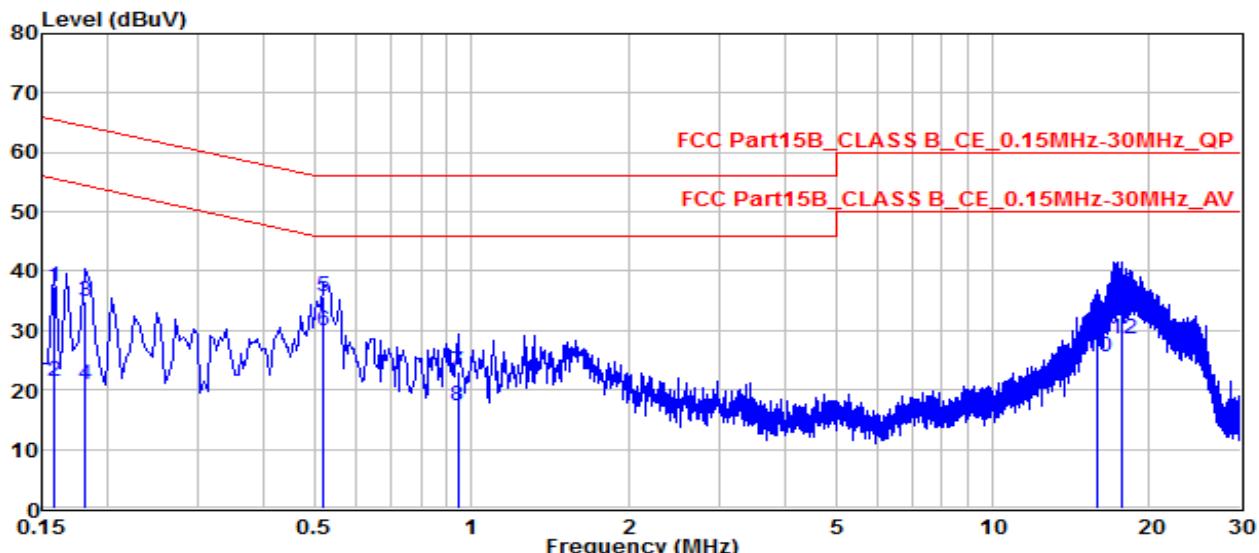


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.168	26.01	10.1	36.11	-28.95	65.06	QP
2	0.168	11.65	10.1	21.75	-33.31	55.06	Average
3	* 0.51896	25.94	10.08	36.02	-19.98	56	QP
4	* 0.51896	20.11	10.08	30.19	-15.81	46	Average
5	1.509	16.26	9.88	26.14	-29.86	56	QP
6	1.509	11.56	9.88	21.44	-24.56	46	Average
7	3.39	4.06	9.81	13.87	-42.13	56	QP
8	3.39	0.62	9.81	10.43	-35.57	46	Average
9	17.401	24.35	9.98	34.33	-25.67	60	QP
10	17.401	17.54	9.98	27.52	-22.48	50	Average
11	18.571	23.34	10	33.34	-26.66	60	QP
12	18.571	18.82	10	28.82	-21.18	50	Average

Note :

1. "\*" means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Factor (dB)+ Cable Loss (dB) .
3. Measurement (dBuV) = Reading(dBuV)+ C.F ( Correction Factor ) .
4. Other mode was also verified. The test results shown represent the worst case emissions .

EUT	GT-500	Test Date	2016.10.24
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	24°C / 55%
Polarity	Neutral	Site / Engineer	SR2 / Kevin
Test Mode	MODE1-CH39	Test Voltage	AC120V/60Hz(By NB)



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.168	26.01	10.1	36.11	-28.95	65.06	QP
2		0.168	11.65	10.1	21.75	-33.31	55.06	Average
3	*	0.51896	25.94	10.08	36.02	-19.98	56	QP
4	*	0.51896	20.11	10.08	30.19	-15.81	46	Average
5		1.509	16.26	9.88	26.14	-29.86	56	QP
6		1.509	11.56	9.88	21.44	-24.56	46	Average
7		3.39	4.06	9.81	13.87	-42.13	56	QP
8		3.39	0.62	9.81	10.43	-35.57	46	Average
9		17.401	24.35	9.98	34.33	-25.67	60	QP
10		17.401	17.54	9.98	27.52	-22.48	50	Average
11		18.571	23.34	10	33.34	-26.66	60	QP
12		18.571	18.82	10	28.82	-21.18	50	Average

Note :

1. " \* " means the worst value in this measurement data .
2. C.F ( Correction Factor ) = Factor (dB)+ Cable Loss (dB) .
3. Measurement (dBuV) = Reading(dBuV)+ C.F ( Correction Factor ).
4. Other channel was also verified. The test results shown represent the worst case emissions .

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **5" Rugged Android™ Handheld Device with LTE solution, FCC ID: 2ACC5-GT500** is in compliance with Part 15C of the FCC Rules.