



FCC CO-LOCATION RADIO TEST REPORT

FCC ID : A4RG013C
Equipment : Smartphone
Model Name : G013C
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC Part 15 Subpart E §15.407

The product was completed on Jun. 26, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR820502-02G	01	Initial issue of report	Jun. 27, 2018



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(b)	Unwanted Emissions	Pass	Under limit 3.45 dB at 897.800 MHz
3.2	15.203 15.407(a)	Antenna Requirement	Pass	-

Reviewed by: Joseph Lin

Report Producer: Wii Chang



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smartphone
Model Name	G013C
FCC ID	A4RG013C
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC/ GNSS/WPC WLAN 11b/g/n HT20/VHT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

EUT Information List	
No.	S/N
#1	85LY00985

1.2 Modification of EUT

No modifications are made to the EUT during all test items.



1.3 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH11-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

2.1 Carrier Frequency and Channel

2400-2483.5 MHz 802.11b		5150-5250 MHz Band 1 (U-NII-1)	
Channel	Freq. (MHz)	Channel	Freq. (MHz)
06	2437	44	5220

5250-5350 MHz Band 2 (U-NII-2A)		5470-5725 MHz Band 3 (U-NII-2C)	
Channel	Freq. (MHz)	Channel	Freq. (MHz)
60	5300	116	5580

5750-5825 MHz Band 4 (U-NII-3)	
Channel	Freq. (MHz)
157	5785

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

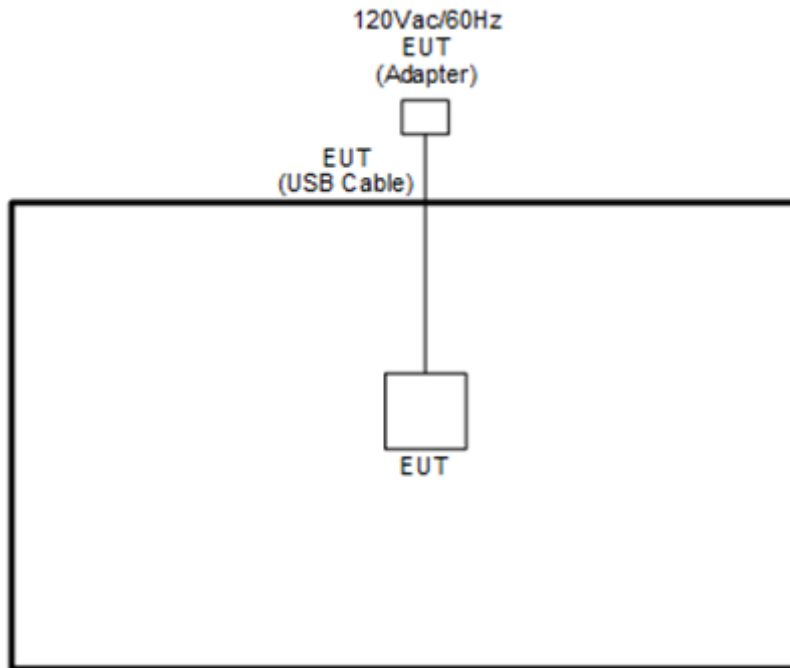
<Co-Location>

Modulation	Data Rate
802.11b + 802.11 a	1 Mbps + 6Mbps

Remark: For Radiated Test Cases, the tests were performed with Adapter 1.

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



2.4 EUT Operation Test Setup

The RF test items, utility “QRCT” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



3 Test Result

3.1 Unwanted Emissions Measurement

3.1.1 Limit of Unwanted Emissions

(1) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/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

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(2) KDB789033 D02 v02r01 G)2)c)

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.³
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.⁴

Note 3: An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

Note 4: Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).



3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

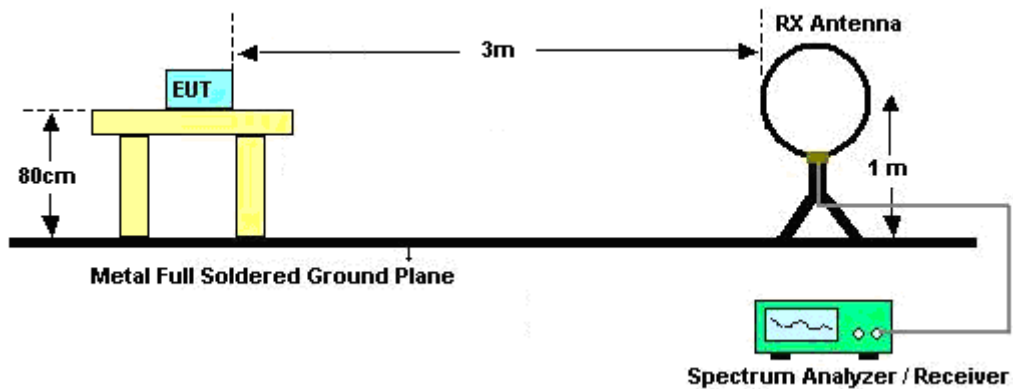
3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

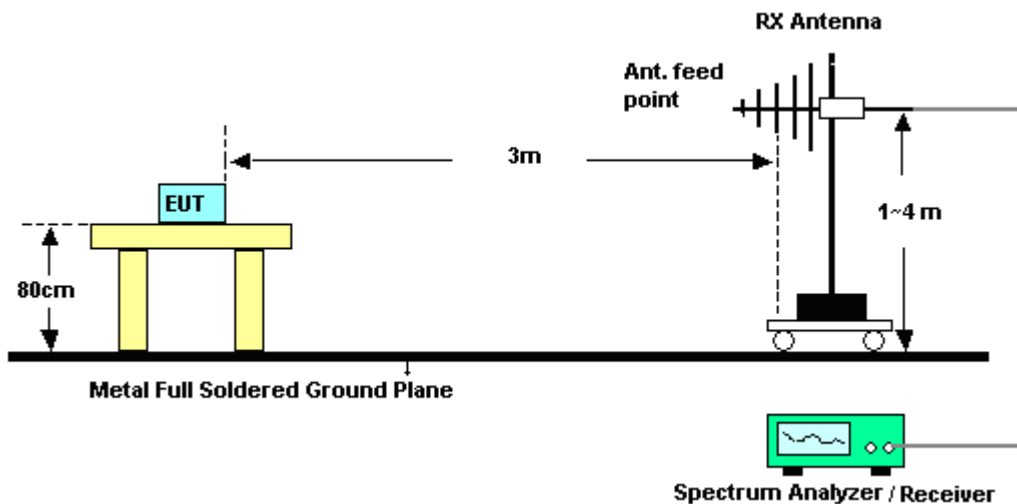
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.1.4 Test Setup

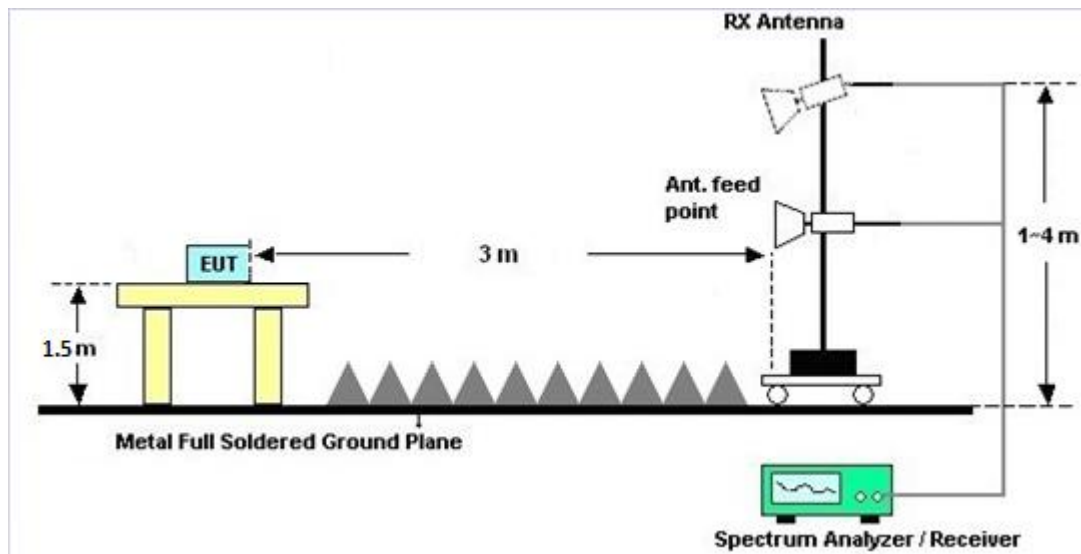
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.1.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.1.6 Duty Cycle

Please refer to Appendix B.

3.1.7 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix A.



3.2 Antenna Requirements

3.2.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.2.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Jun. 12, 2018~Jun. 26, 2018	Jul. 17, 2018	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 26, 2017	Jun. 12, 2018~Jun. 26, 2018	Dec. 25, 2018	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&00800N1D01N-06	41912&05	30MHz to 1GHz	Jan. 10, 2018	Jun. 12, 2018~Jun. 26, 2018	Jan. 09, 2019	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1620	1G~18GHz	Oct. 03, 2017	Jun. 12, 2018~Jun. 26, 2018	Oct. 02, 2018	Radiation (03CH15-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jun. 12, 2018~Jun. 26, 2018	Nov. 22, 2018	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 21, 2017	Jun. 12, 2018~Jun. 26, 2018	Aug. 20, 2018	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20Hz ~ 8.4GHz	Oct. 31, 2017	Jun. 12, 2018~Jun. 26, 2018	Oct. 30, 2018	Radiation (03CH15-HY)
Spectrum Analyzer	Agilent	E4446A	MY50180136	3Hz~44GHz	Apr. 25, 2018	Jun. 12, 2018~Jun. 26, 2018	Apr. 24, 2019	Radiation (03CH15-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jun. 12, 2018~Jun. 26, 2018	N/A	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 12, 2018~Jun. 26, 2018	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 12, 2018~Jun. 26, 2018	N/A	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Jun. 12, 2018~Jun. 26, 2018	Nov. 26, 2018	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180002	1GHz~18GHz	Jul. 31, 2017	Jun. 12, 2018~Jun. 26, 2018	Jul. 30, 2018	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT1 8A-100	MY36980/4, MY9838/4 PE, D3210	30MHz~1GHz	Mar. 15, 2018	Jun. 12, 2018~Jun. 26, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER / MTJ Cooperation	SUCOFLEX 104 / 000000-MT1 8A-100	MY36980/4, MY9838/4 PE, D3210	1GHz~18GHz	Mar. 15, 2018	Jun. 12, 2018~Jun. 26, 2018	Mar. 14, 2019	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Jun. 12, 2018~Jun. 26, 2018	Oct. 16, 2018	Radiation (03CH15-HY)
Filter	Wainwright	WHKX8-587 2.5-6750-18000-40ST	SN3	6.75GHz High Pass	Sep. 18, 2017	Jun. 12, 2018~Jun. 26, 2018	Sep. 17, 2018	Radiation (03CH15-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1G Low Pass	Sep. 18, 2017	Jun. 12, 2018~Jun. 26, 2018	Sep. 17, 2018	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Jun. 12, 2018~Jun. 26, 2018	N/A	Radiation (03CH15-HY)
Hygrometer	TECEPEL	DTM-303B	TP162976	N/A	Oct. 12, 2017	Jun. 12, 2018~Jun. 26, 2018	Oct. 11, 2018	Radiation (03CH15-HY)



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.50
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. Radiated Spurious Emission

Test Engineer :	Bill Chang, Karl Hou, and Lance Chiang	Temperature :	24~26°C
		Relative Humidity :	50~54%

802.11b + 802.11a

		11b_Tx_Ch06 Ant. 1 + 11a_Tx_Ch44 Ant. 2																																																																																																																																
		Horizontal	Vertical																																																																																																																															
Peak	<p>Site : 03CHI5-HY Condition : PEAK(LINE1) 3m 91200_15_1620 HORIZONTAL Detector : Peak Project : 820502-02 Mode : -47</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Loss</th> <th>Factor</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dB/m</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4874.00</td> <td>49.70</td> <td>-24.30</td> <td>74.00</td> <td>40.17</td> <td>31.46</td> <td>8.19 30.12 100 0 Peak</td> </tr> <tr> <td>2</td> <td>7311.00</td> <td>42.19</td> <td>-31.81</td> <td>74.00</td> <td>50.74</td> <td>36.08</td> <td>10.78 56.23 100 0 Peak</td> </tr> <tr> <td>3</td> <td>10640.00</td> <td>46.94</td> <td>-21.26</td> <td>68.20</td> <td>53.94</td> <td>39.77</td> <td>12.88 60.15 100 0 Peak</td> </tr> <tr> <td>4</td> <td>15660.00</td> <td>57.35</td> <td>-16.65</td> <td>74.00</td> <td>60.73</td> <td>37.63</td> <td>16.20 57.88 320 24 Peak</td> </tr> <tr> <td>5</td> <td>15660.00</td> <td>47.58</td> <td>-6.42</td> <td>54.00</td> <td>50.96</td> <td>37.63</td> <td>16.20 57.88 320 24 Average</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Level	Line	Level	Loss	Factor	dB	cm	deg	MHz	dBuV/m	dB	dB/m	dB/m	dB	cm	deg	1	4874.00	49.70	-24.30	74.00	40.17	31.46	8.19 30.12 100 0 Peak	2	7311.00	42.19	-31.81	74.00	50.74	36.08	10.78 56.23 100 0 Peak	3	10640.00	46.94	-21.26	68.20	53.94	39.77	12.88 60.15 100 0 Peak	4	15660.00	57.35	-16.65	74.00	60.73	37.63	16.20 57.88 320 24 Peak	5	15660.00	47.58	-6.42	54.00	50.96	37.63	16.20 57.88 320 24 Average	<p>Site : 03CHI5-HY Condition : PEAK(LINE1) 3m 91200_15_1620 VERTICAL Detector : Peak Project : 820502-02 Mode : -47</p> <table border="1"> <thead> <tr> <th>Over</th> <th>Limit</th> <th>ReadAntenna</th> <th>Cable</th> <th>Preamp</th> <th>A/Pos</th> <th>T/Pos</th> <th>Remark</th> </tr> <tr> <th>Level</th> <th>Line</th> <th>Level</th> <th>Loss</th> <th>Factor</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dB</th> <th>dB/m</th> <th>dB/m</th> <th>dB</th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4874.00</td> <td>49.88</td> <td>-24.12</td> <td>74.00</td> <td>40.35</td> <td>31.46</td> <td>8.19 30.12 100 0 Peak</td> </tr> <tr> <td>2</td> <td>7311.00</td> <td>41.73</td> <td>-32.27</td> <td>74.00</td> <td>50.28</td> <td>36.08</td> <td>10.78 56.23 100 0 Peak</td> </tr> <tr> <td>3</td> <td>10640.00</td> <td>47.07</td> <td>-21.13</td> <td>68.20</td> <td>54.07</td> <td>39.77</td> <td>12.88 60.15 100 0 Peak</td> </tr> <tr> <td>4</td> <td>15660.00</td> <td>58.28</td> <td>-15.72</td> <td>74.00</td> <td>61.66</td> <td>37.63</td> <td>16.20 57.88 400 311 Peak</td> </tr> <tr> <td>5</td> <td>15660.00</td> <td>48.49</td> <td>-5.51</td> <td>54.00</td> <td>51.87</td> <td>37.63</td> <td>16.20 57.88 400 311 Average</td> </tr> </tbody> </table>	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Level	Line	Level	Loss	Factor	dB	cm	deg	MHz	dBuV/m	dB	dB/m	dB/m	dB	cm	deg	1	4874.00	49.88	-24.12	74.00	40.35	31.46	8.19 30.12 100 0 Peak	2	7311.00	41.73	-32.27	74.00	50.28	36.08	10.78 56.23 100 0 Peak	3	10640.00	47.07	-21.13	68.20	54.07	39.77	12.88 60.15 100 0 Peak	4	15660.00	58.28	-15.72	74.00	61.66	37.63	16.20 57.88 400 311 Peak	5	15660.00	48.49	-5.51	54.00	51.87	37.63	16.20 57.88 400 311 Average
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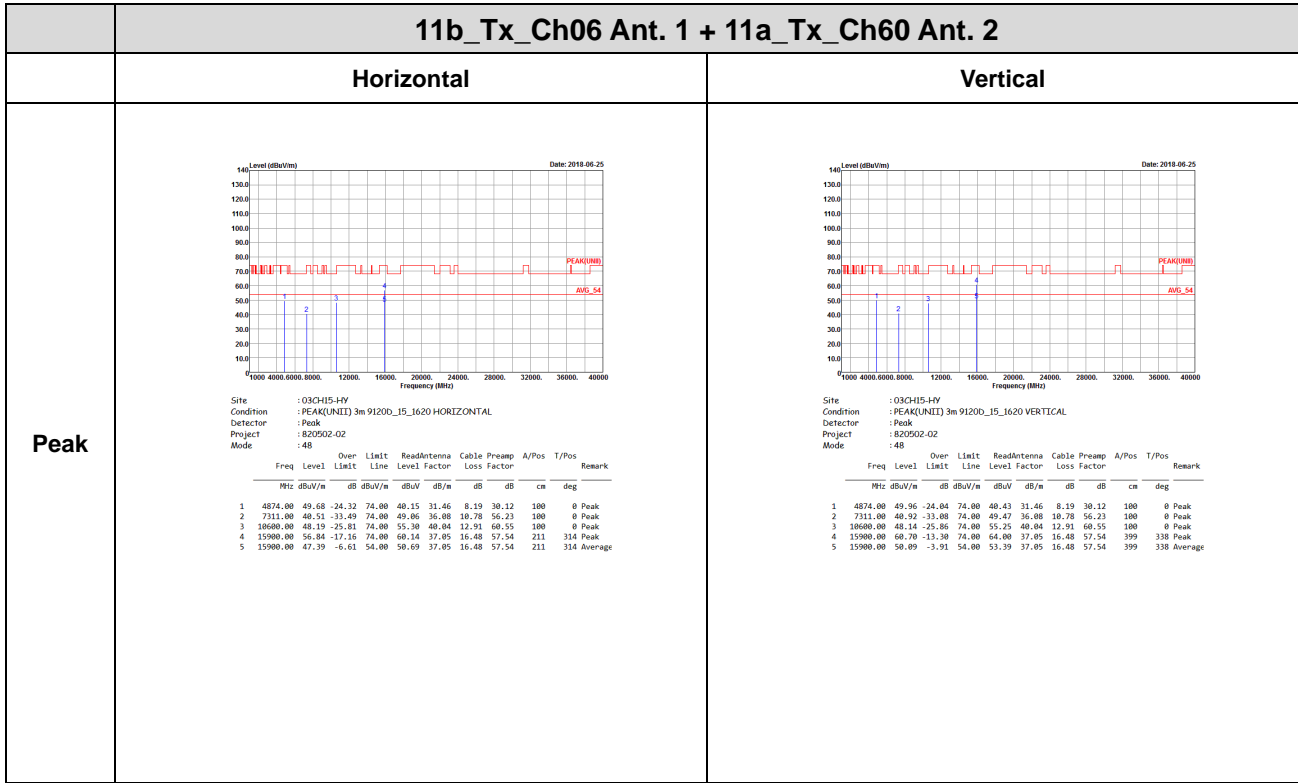


802.11b + 802.11a_LF

		11b_Tx_Ch06 Ant. 1 + 11a_Tx_Ch44 Ant. 2_LF																																																																																																																																																																							
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802.11b + 802.11a





802.11b + 802.11a _LF

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802.11b + 802.11a

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802.11b + 802.11a _LF

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802.11b + 802.11a_LF

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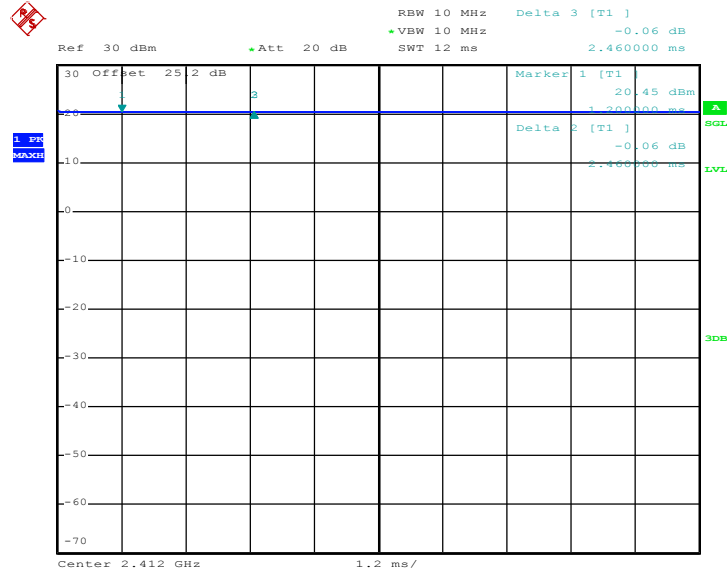
Appendix B. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11b	100.00	-	-	10Hz	0.00
2	802.11a	97.73	2064.00	0.48	1kHz	0.10



<Ant. 1>

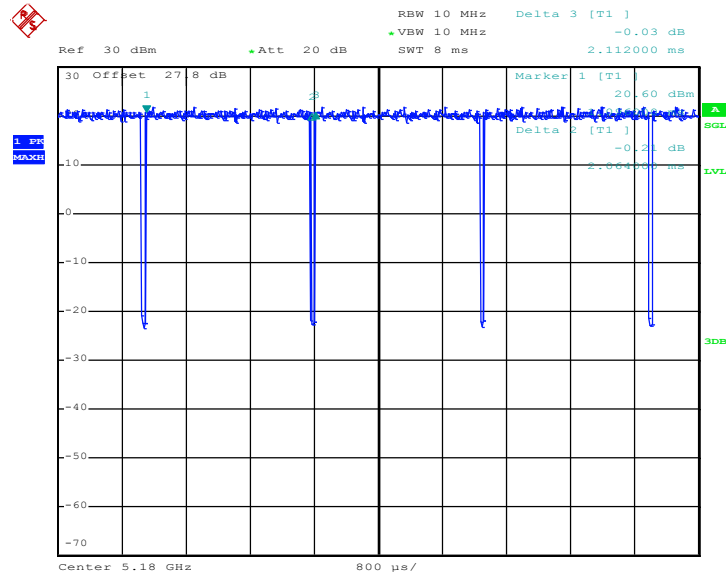
802.11b



Date: 8.JUN.2018 20:10:24

<Ant. 2>

802.11a



Date: 9.JUN.2018 00:16:20

—————THE END—————