



FCC RF Test Report

FCC ID : UZ7WR50
EQUIPMENT : RFID Accessory
BRAND NAME : Zebra
MODEL NAME : WR50
APPLICANT : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
MANUFACTURER : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DSS) Spread Spectrum Transmitter
TEST DATE(S) : Jul. 27, 2025 ~ Nov. 10, 2025

We, Sporton International Inc. (Kunshan), 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 test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR581302	Rev. 01	Initial issue of report	Nov. 10, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(b)(1)	Conducted Output Power	$\leq 1W$	Pass	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.12 dB at 2783.10 MHz
3.3	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.98 dB at 0.151 MHz
3.4	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Remark: This is a variant report, the change note could be referred to the Product Equality Declaration which is exhibit separately. According to the differences, only the related cases were verified from original test report (Sporton Report Number FR1O0707-11).

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	RFID Accessory
Brand Name	Zebra
Model Name	WR50
Sample 1	EUT with Host (SKU2)
Sample 2	EUT with Host (SKU4)
Sample 3	EUT with Host (SKU6)
Sample 4	EUT with Host (SKU8)
FCC ID	UZ7WR50
Installed into the Host	Brand name: Zebra Model name: WS5102
SN	Conduction: 252115247E0057 Condcuted/Radiation: 252115247E0056
HW Version	DV1.2
SW Version	PAAFBS00-001-R07
MFD	12AUG25
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.

<Host Information>

Echo SKU	Scanner	Battery	Camera	Mounting
SKU2	SR560	3X(2400mAh)	N/A	Finger Trigger
SKU4	SR560	3X(2400mAh)	N/A	RIFD BOH
SKU6	SR560	3X(2400mAh)	N/A	RFID Wrist /W extended antenna
SKU8	SR560	3X(2400mAh)	N/A	RFID BOH /W external antenna

Specification of Accessory				
Adaptor	Brand Name	Zebra	Model Number	PWR-WUA5V12W0US
3X Battery	Brand Name	Zebra	Model Number	BT-000446A
USB charging cable with cup	Brand Name	Zebra	Model Number	CBL-WS5X-USB1-01
USB C CABLE	Brand Name	Zebra	Model Number	CBL-TC2X-USBC-01
WS501 Wearable Computer	Brand Name	Zebra	Model Number	WS5012

Remark: WS501 Wearable Computer (Echo, module WS5012), is working as a host to RFID during test.



Supported Unit used in test configuration and system				
WS50 RFID Shell	Brand Name	Zebra	Part Number	SG-WS5X-SHLRS-01
WS50 Replacement Deflector for RFID Shell	Brand Name	Zebra	Part Number	SG-WS5X-DFLTR-01
Replacement Finger Trigger for Converged	Brand Name	Zebra	Part Number	SG-WS5X-TRGA-01
WS50 Spare Finger Strap for Converged and RFID Trigger, 10 Pack	Brand Name	Zebra	Part Number	SG-WS5X-STRP-10
WS50 RFID Back of Hand Mount (SKU 4 & 8)	Brand Name	Zebra	Part Number	SG-WS5X-BHRS-01
WS50 RFID Wrist Mount Plate (SKU 6)	Brand Name	Zebra	Part Number	SG-WS5X-WSTRS-01
WS50 RFID Back of Hand Mount Glove, Left Hand Small (SKU 4)	Brand Name	Zebra	Part Number	SG-WEAR-HNWPLS-02
WS50 RFID Back of Hand Mount Glove, Left Hand Medium (SKU 4)	Brand Name	Zebra	Part Number	SG-WEAR-HNWPLM-02
WS50 RFID Back of Hand Mount Glove, Left Hand Large (SKU 4)	Brand Name	Zebra	Part Number	SG-WEAR-HNWPLL-02
WS50 RFID Back of Hand Mount Glove, Right Hand Small (SKU 4)	Brand Name	Zebra	Part Number	SG-WEAR-HNWPRS-02
WS50 RFID Back of Hand Mount Glove, Right Hand Medium (SKU 4)	Brand Name	Zebra	Part Number	SG-WEAR-HNWPRM-02
WS50 RFID Back of Hand Mount Glove, Right Hand Large (SKU 4)	Brand Name	Zebra	Part Number	SG-WEAR-HNWPRL-02
Wrist Mount for WS50 RFID, Right Arm, Large (SKU 6)	Brand Name	Zebra	Part Number	SG-WS5X-WMTRRL-01
Wrist Mount for WS50 RFID, Right Arm, Small (SKU 6)	Brand Name	Zebra	Part Number	SG-WS5X-WMTRRS-01
Wrist Mount for WS50 RFID, Left Arm, Large (SKU 6)	Brand Name	Zebra	Part Number	SG-WS5X-WMTRLL-01
Wrist Mount for WS50 RFID, Left Arm, Small (SKU 6)	Brand Name	Zebra	Part Number	SG-WS5X-WMTRLS-01
WS50 RFID Back of Hand Mount with Wrist Antenna Holder, Right Large (SKU 8)	Brand Name	Zebra	Part Number	SG-WS5X-BHWRRL-01
WS50 RFID Back of Hand Mount with Wrist Antenna Holder, Right Medium (SKU 8)	Brand Name	Zebra	Part Number	SG-WS5X-BHWRRM-01
WS50 RFID Back of Hand Mount with Wrist Antenna Holder, Right Small (SKU 8)	Brand Name	Zebra	Part Number	SG-WS5X-BHWRRS-01
WS50 RFID Back of Hand Mount with Wrist Antenna Holder, Left Large (SKU 8)	Brand Name	Zebra	Part Number	SG-WS5X-BHWRL-01
WS50 RFID Back of Hand Mount with Wrist Antenna Holder, Left Medium (SKU 8)	Brand Name	Zebra	Part Number	SG-WS5X-BHWRLM-01

WS50 RFID Back of Hand Mount with Wrist Antenna Holder, Left Small (SKU 8)	Brand Name	Zebra	Part Number	SG-WS5X-BHWRLS-01
WS50 UHF RFID Antenna Cable, 800MHz, 210mm Length for Wrist Mount, EMEA	Brand Name	Zebra	Part Number	CBL-WS5X-ANTR8S-01
WS50 UHF RFID Antenna Cable, 800MHz, 330mm length for Back of Hand Mount, EMEA	Brand Name	Zebra	Part Number	CBL-WS5X-ANTR8L-01
WS50 UHF RFID Antenna Cable, 900MHz, 210mm length for Wrist Mount, North America and Rest of World Minus EMEA	Brand Name	Zebra	Part Number	CBL-WS5X-ANTR9S-01
WS50 UHF RFID Antenna Cable, 900MHz, 330mm length for Back of Hand Mount, North America and Rest of World Minus EMEA	Brand Name	Zebra	Part Number	CBL-WS5X-ANTR9L-01

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	917.90 MHz ~ 927.70 MHz
Number of Channels	50
Channel Spacing	0.20 MHz
Maximum Output Power to Antenna	Internal: 22.62 dBm (0.1828 W) External: 22.79 dBm (0.1901 W)
Antenna Type	Internal – PIFA External - Patch
Antenna Gain	Internal 900MHz: -0.91 dBi External 1 900MHz: 1.65 dBi External 2 900MHz: 1.36 dBi
Type of Modulation	ASK

Note:

1. External Antenna 1:RFID03N-N0-01-9S(Short), External Antenna 2: RFID03N-N0-01-9L(Long)
2. There are two RF Port (Internal/ External) of the device, can't transmit simultaneously.

1.3 Modification of EUT

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



1.4 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS CO01-KS 03CH05-KS	CN1257	314309

1.5 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH05-KS	AUDIX	E3	210616
2.	CO01-KS	AUDIX	E3	6.2009-8-24
3.	TH01-KS	SPORTON	FCC BT2.0 Ver3.0_For_CHINA_190111	3.0

1.6 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2020

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.
3. The standard of ANSI C63.10-2013 updated to ANSI C63.10-2020, the difference is not affect for RFID of this device.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
917.90-927.70 MHz	1	917.90	26	922.90
	2	918.10	27	923.10
	3	918.30	28	923.30
	4	918.50	29	923.50
	5	918.70	30	923.70
	6	918.90	31	923.90
	7	919.10	32	924.10
	8	919.30	33	924.30
	9	919.50	34	924.50
	10	919.70	35	924.70
	11	919.90	36	924.90
	12	920.10	37	925.10
	13	920.30	38	925.30
	14	920.50	39	925.50
	15	920.70	40	925.70
	16	920.90	41	925.90
	17	921.10	42	926.10
	18	921.30	43	926.30
	19	921.50	44	926.50
	20	921.70	45	926.70
	21	921.90	46	926.90
	22	922.10	47	927.10
	23	922.30	48	927.30
	24	922.50	49	927.50
	25	922.70	50	927.70

2.2 Test Mode

- 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: For conduction emission (150 kHz to 30 MHz), radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report, and the worst mode of radiated spurious emissions is recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

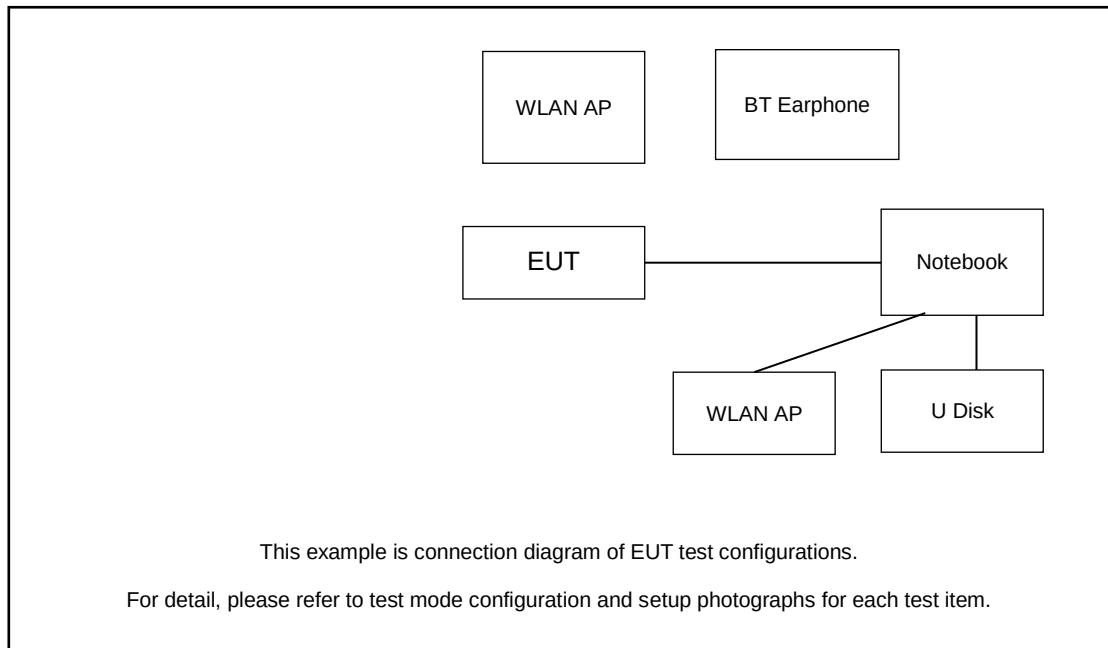
Summary table of Test Cases	
Test Item	UHF RFID
Conducted Test Cases	Mode 1: RFID Tx 917.9 MHz Mode 2: RFID Tx 922.7 MHz Mode 3: RFID Tx 927.7 MHz
Radiated Test Cases	Mode 1: RFID Tx 917.9 MHz (Internal Antenna) Mode 2: RFID Tx 922.7 MHz (Internal Antenna) Mode 3: RFID Tx 927.7 MHz (Internal Antenna) Mode 4: RFID Tx 917.9 MHz (External Antenna1) Mode 5: RFID Tx 922.7 MHz (External Antenna1) Mode 6: RFID Tx 927.7 MHz (External Antenna1) Mode 7: RFID Tx 927.7 MHz (External Antenna2)
AC Conducted Emission	Mode 1: RFID Link + Internal Antenna With two Finger Trigger Mount + Battery + data USB link with NB(Write) + Finger Trigger Mode 2: RFID Link + External Antenna 1 With antenna holder(SG-WS5X-BHAHLS-01) + Battery + data USB link with NB(read) + Finger Trigger Mode 3: RFID Link + External Antenna2With Wrist Mount(WSSX-WMTRRL-01) + Battery + USB Cable with AC Adapter + BOH

Note:

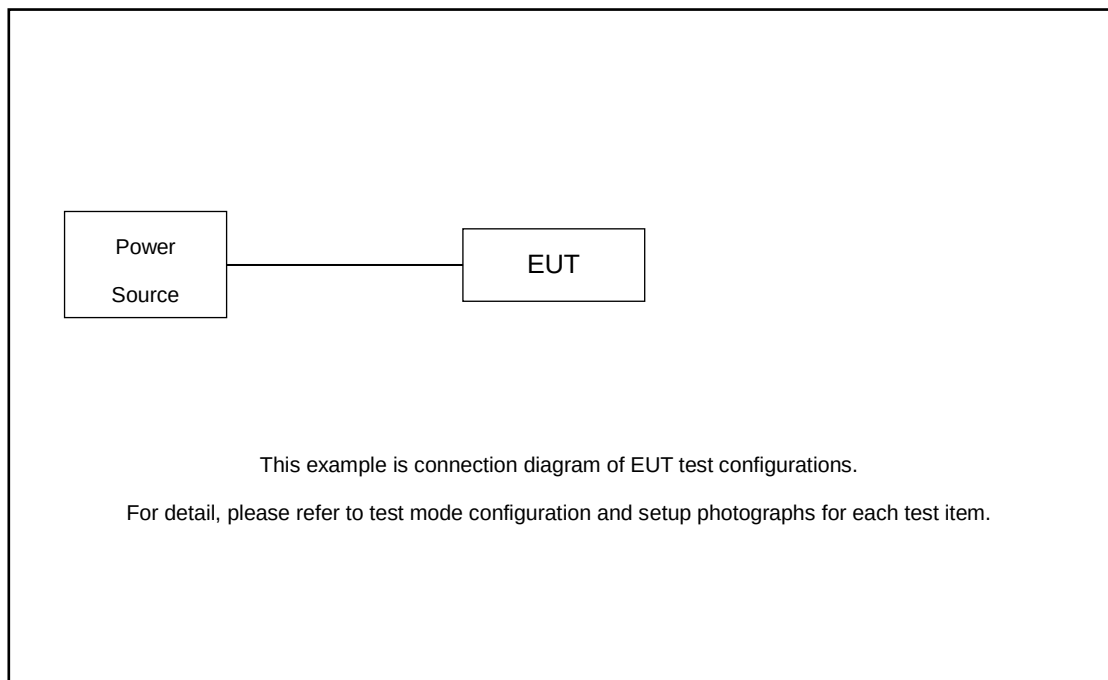
1. External Antenna2 is verified worse case of External Antenna1 modes.
2. For Radiated Test Cases, the tests were performed with WS50 UHF RFID Antenna Cable. 900MHz, long and short for Back of Hand Mount, North America and Rest of World Minus EMEA, Sample 1, Sample 3 and Sample 4.
3. For Conducted Emission test cases, the worst mode 1 was reported only.

2.3 Connection Diagram of Test System

For Conducted Emission



For Radiated Emission



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
2.	SD Card	Kingston	8GB	N/A	N/A	N/A
3.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “Tera Term Version 4.95 / Tera Term Version 4.105” 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 Output Power Measurement

3.1.1 Limit of Output Power

15.247(b)(2): For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels.

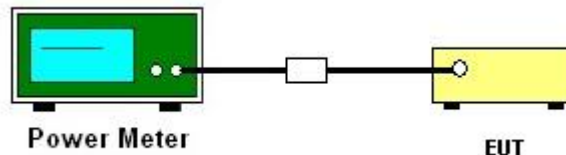
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 7.8.5.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

3.1.4 Test Setup



**3.1.5 Test Result of Peak Output Power****External**

DH	Freq. (MHz)	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
RFID	917.9	1	22.79	30.00	Pass
	922.7	1	22.72	30.00	Pass
	927.7	1	22.69	30.00	Pass

Internal

DH	Freq. (MHz)	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
RFID	917.9	1	22.62	30.00	Pass
	922.7	1	22.60	30.00	Pass
	927.7	1	22.55	30.00	Pass

Note: Power setting is the default.



3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.2.2 Measuring Instruments

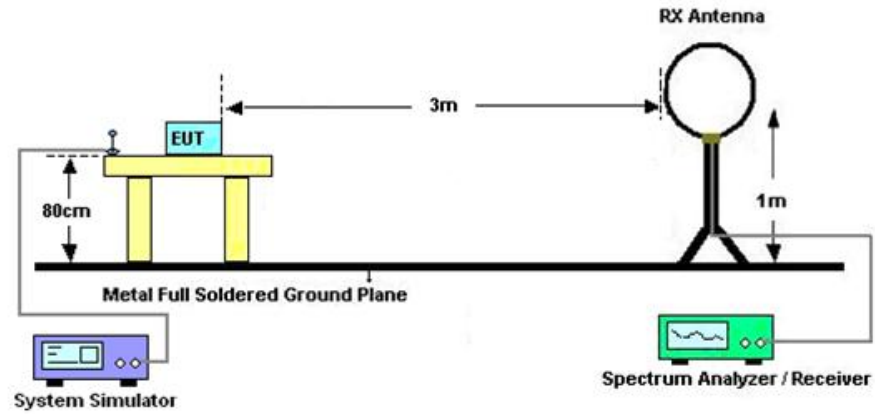
The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

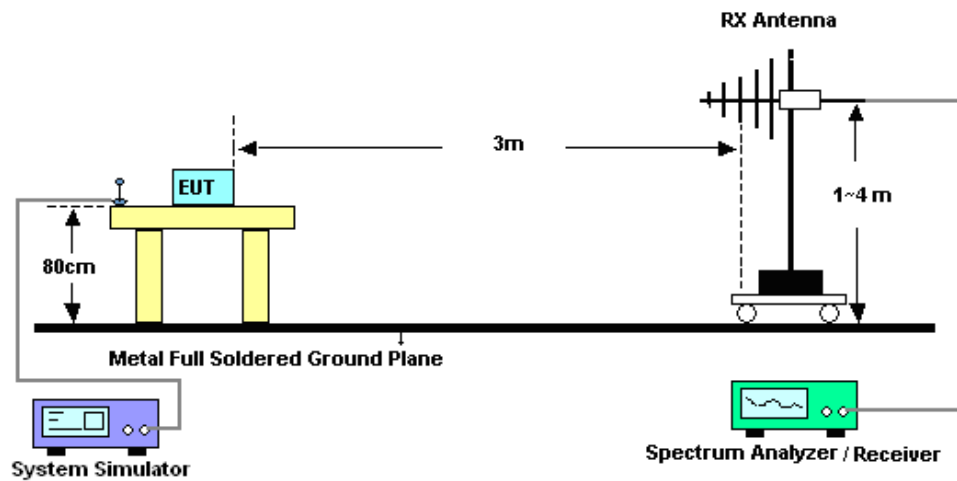
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5 and 6.6.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1 \text{ GHz}$, RBW=1MHz for $f > 1\text{GHz}$; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$
7. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
8. 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.
9. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak 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.

3.2.4 Test Setup

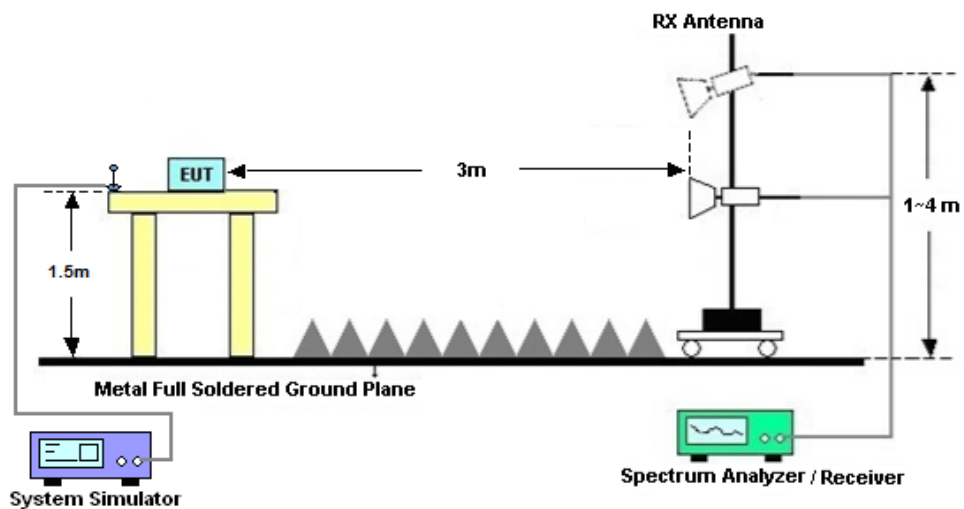
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.2.5 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.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.2.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B.

3.2.8 Duty cycle correction factor for average measurement

Please refer to Appendix C.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

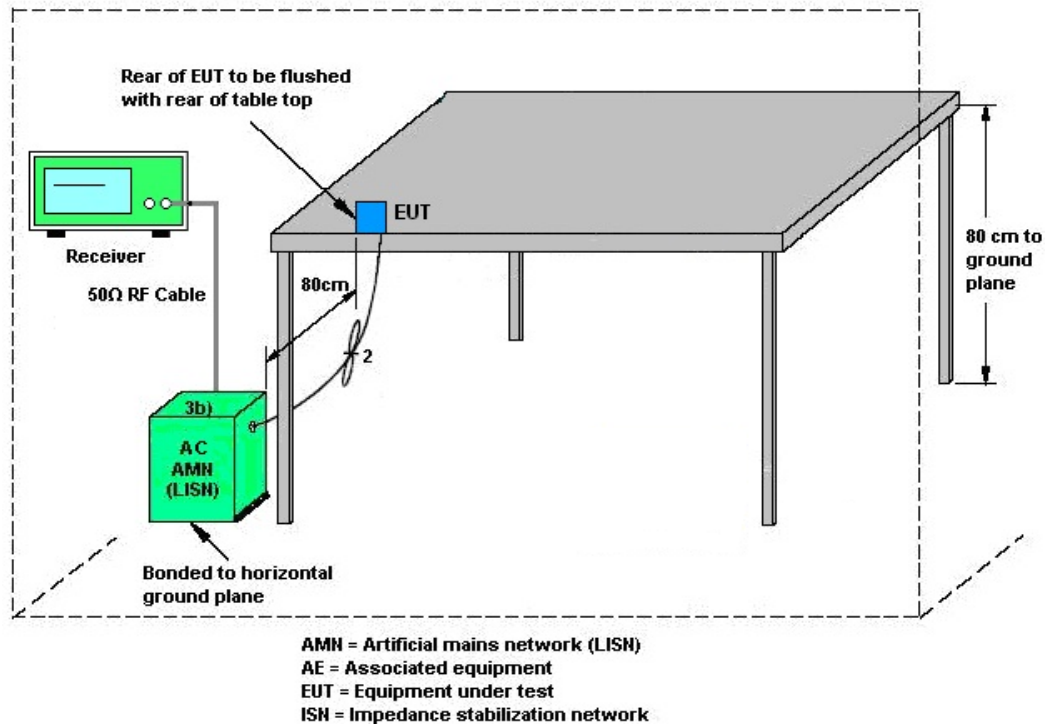
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

10. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
11. Connect EUT to the power mains through a line impedance stabilization network (LISN).
12. All the support units are connecting to the other LISN.
13. The LISN provides 50 ohm coupling impedance for the measuring instrument.
14. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
15. Both sides of AC line were checked for maximum conducted interference.
16. The frequency range from 150 kHz to 30 MHz was searched.
17. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.4 Antenna Requirements

3.4.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used. and
Non-standard antenna connector is used.

3.4.3 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
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 03, 2025	Jul. 27, 2025	Jul. 02, 2026	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz~44G,MAX 30dB	Oct. 10, 2024	Jul. 27, 2025	Oct. 09, 2025	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jul. 27, 2025	Sep. 07, 2025	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Mar. 24, 2025	Jul. 27, 2025	Mar. 23, 2026	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251982	1GHz~18GHz	Aug. 16, 2024	Jul. 27, 2025	Aug. 15, 2025	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jul. 27, 2025	Oct. 21, 2025	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 02, 2025	Jul. 27, 2025	Jul. 01, 2026	Radiation (03CH05-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 02, 2025	Jul. 27, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
high gain Amplifier	EM	EM01G18GA	060843	1Ghz~18Ghz	Jan. 02, 2025	Jul. 27, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
Amplifier	EM	EM01G18GA	060833	1Ghz~18Ghz	Jan. 02, 2025	Jul. 27, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 27, 2025	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 27, 2025	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 27, 2025	NCR	Radiation (03CH05-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Jul. 07, 2025	Oct. 24, 2025	Jul. 06, 2026	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Oct. 24, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Oct. 24, 2025	Jan. 01, 2026	Conducted (TH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 16, 2025	Nov. 10, 2025	Apr. 15, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Jul. 03, 2025	Nov. 10, 2025	Jul. 02, 2026	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2024	Nov. 10, 2025	Dec. 23, 2025	Conduction (CO01-KS)
AC Power Source	Ouhan	APW-130NYT	202201040060	AC 0V~300V,45Hz~1000Hz	Apr. 16, 2025	Nov. 10, 2025	Apr. 15, 2026	Conduction (CO01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Power	±0.90 dB
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Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.18dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.88dB
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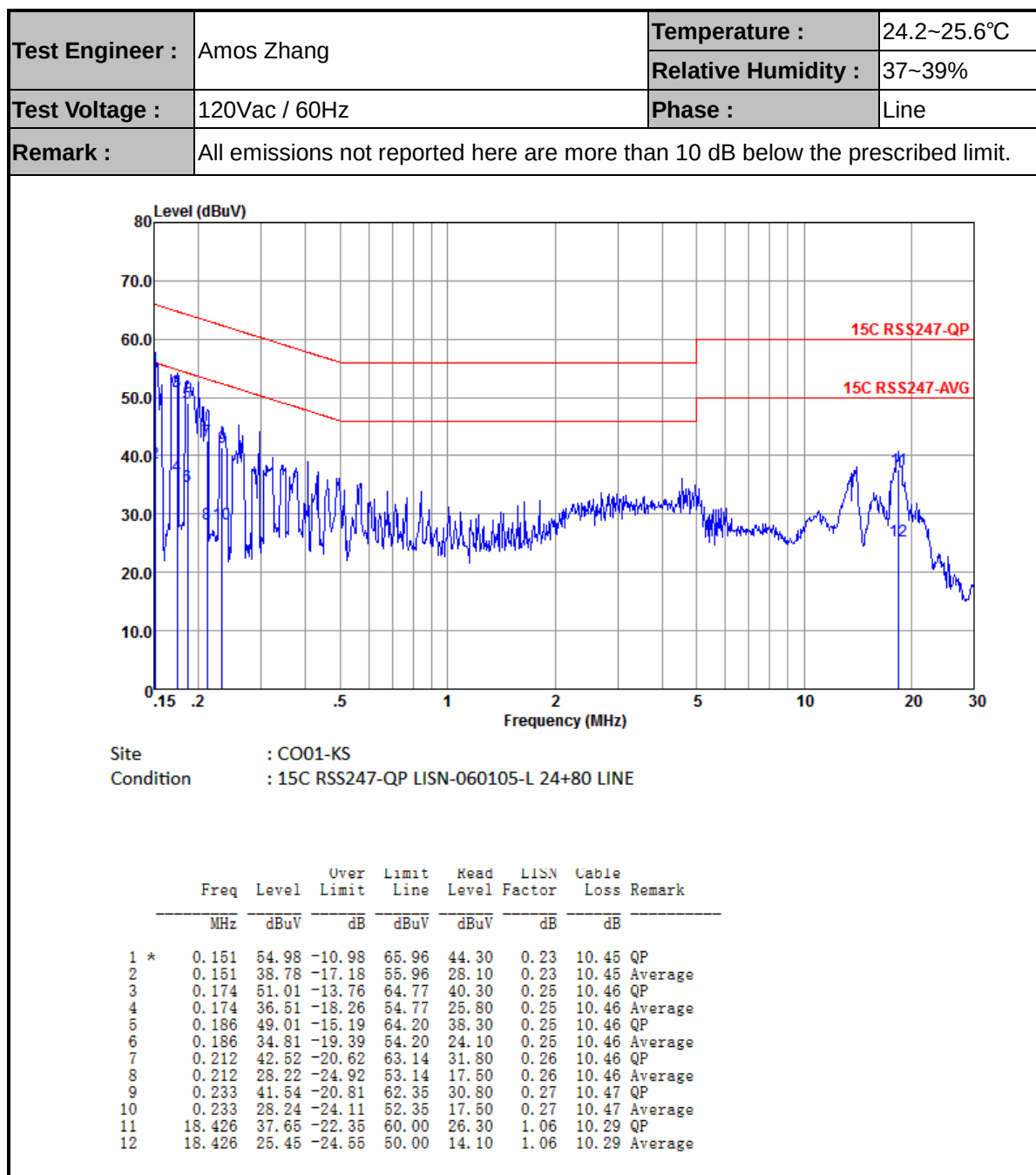
Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.35dB
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----- THE END -----

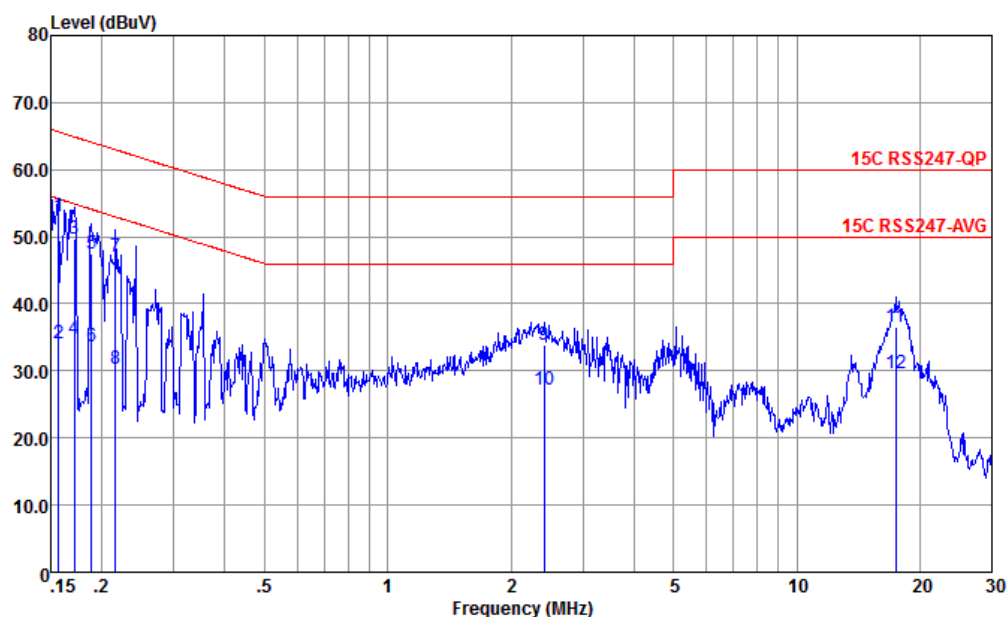


Appendix A. AC Conducted Emission Test Results





Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-N 24+80 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.156	52.99	-12.66	65.65	42.30	0.24	10.45	QP
2	0.156	33.99	-21.66	55.65	23.30	0.24	10.45	Average
3	0.171	49.60	-15.30	64.90	38.90	0.25	10.45	QP
4	0.171	34.80	-20.10	54.90	24.10	0.25	10.45	Average
5	0.188	47.50	-16.61	64.11	36.80	0.24	10.46	QP
6	0.188	33.60	-20.51	54.11	22.90	0.24	10.46	Average
7	0.216	47.01	-15.95	62.96	36.30	0.25	10.46	QP
8	0.216	30.21	-22.75	52.96	19.50	0.25	10.46	Average
9	2.409	33.92	-22.08	56.00	23.30	0.39	10.23	QP
10	2.409	27.12	-18.88	46.00	16.50	0.39	10.23	Average
11	17.475	36.59	-23.41	60.00	25.30	1.00	10.29	QP
12	17.475	29.59	-20.41	50.00	18.30	1.00	10.29	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Jerry Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	917.9-927.7	Internal Antenna	ASK	01	917.9	-	-	-
Mode 2	917.9-927.7	Internal Antenna	ASK	25	922.7	-	-	-
Mode 3	917.9-927.7	Internal Antenna	ASK	50	927.7	-	-	-
Mode 4	917.9-927.7	External Antenna1	ASK	01	917.9	-	-	-
Mode 5	917.9-927.7	External Antenna1	ASK	25	922.7	-	-	-
Mode 6	917.9-927.7	External Antenna1	ASK	50	927.7	-	-	-
Mode 7	917.9-927.7	External Antenna2	ASK	50	927.7	-	-	-

Note: External Antenna2 is verified worse case of External Antenna1 modes.

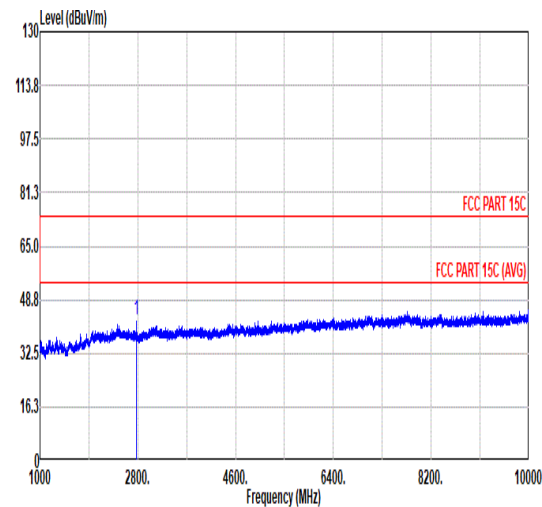
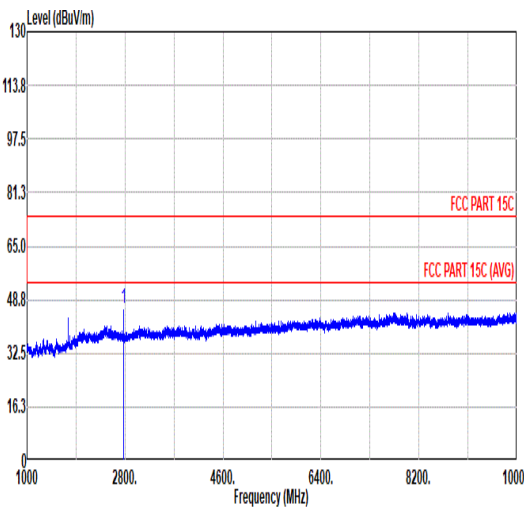
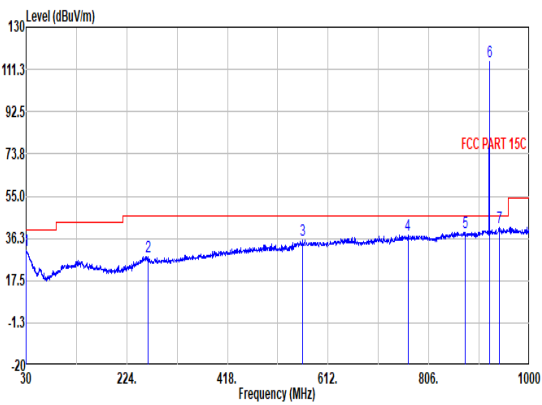
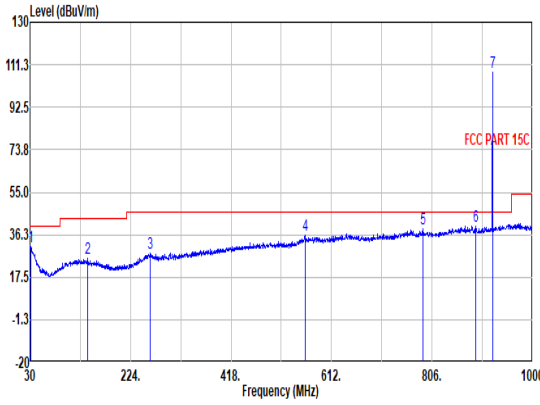
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	ASK	917.9	880.21	40.48	46.00	-5.52	H	PEAK	Pass	Band Edge
1	ASK	917.9	2753.70	42.85	74.00	-31.15	V	PEAK	Pass	Harmonic
2	ASK	922.7	941.32	41.24	46.00	-4.76	H	PEAK	Pass	Band Edge
2	ASK	922.7	2768.10	45.99	74.00	-28.01	V	PEAK	Pass	Harmonic
3	ASK	927.7	948.11	40.38	46.00	-5.62	H	PEAK	Pass	Band Edge
3	ASK	927.7	2783.10	46.26	74.00	-27.74	V	PEAK	Pass	Harmonic
4	ASK	917.9	957.32	41.21	46.00	-4.79	V	PEAK	Pass	Band Edge
4	ASK	917.9	2753.80	40.55	74.00	-33.45	V	Peak	Pass	Harmonic
5	ASK	922.7	953.93	40.88	46.00	-5.12	H	PEAK	Pass	Band Edge
5	ASK	922.7	2768.10	40.32	74.00	-33.68	H	PEAK	Pass	Harmonic
6	ASK	927.7	954.90	41.37	46.00	-4.63	V	Peak	Pass	Band Edge
6	ASK	927.7	1754.20	43.21	74.00	-30.79	V	Peak	Pass	Harmonic
7	ASK	927.7	950.05	41.01	46.00	-4.99	H	PEAK	Pass	Band Edge
7	ASK	927.7	2783.10	50.88	54.00	-3.12	V	AVERAGE	Pass	Harmonic

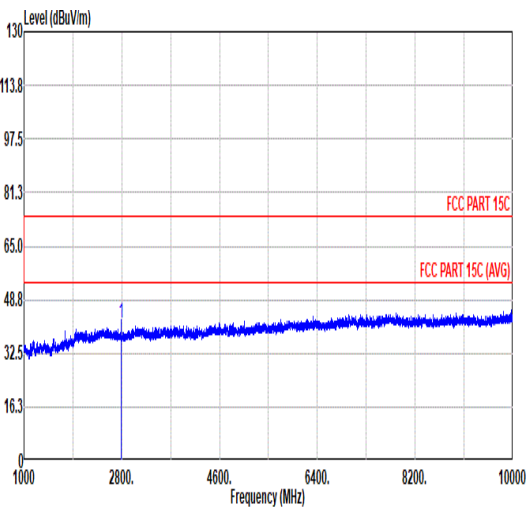
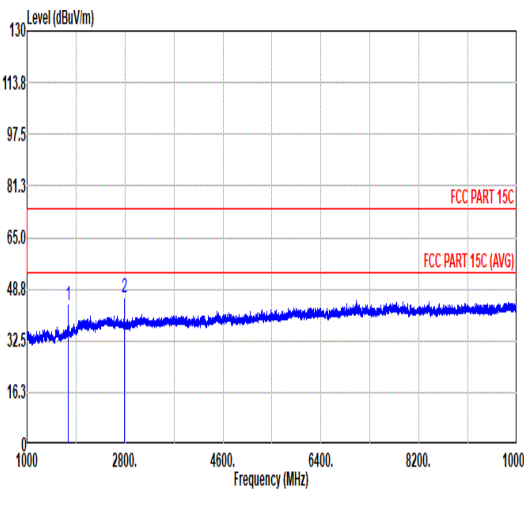
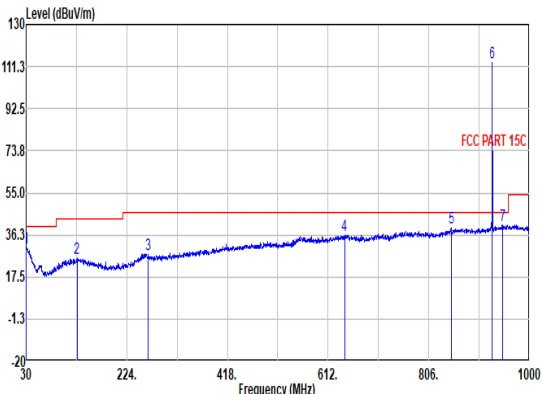
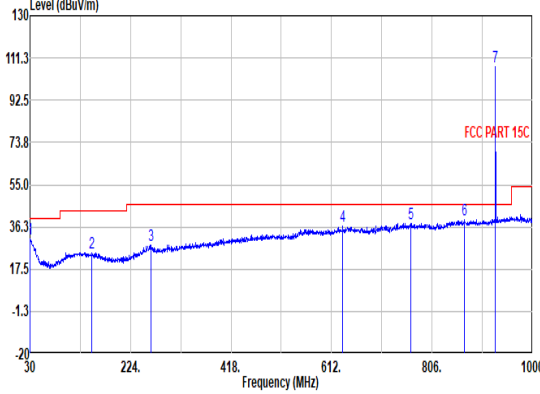


Mode	1																																																																																																																																																																																																																																																																																																					
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	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Pol/Phase																																																																																																																																																																																																																																																																																										
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1	32.43	31.39	40.00	-8.61	28.91	24.04	0.50	32.06	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																																																									
2	134.76	27.53	43.50	-15.97	30.36	17.59	1.61	32.03	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																																																									
3	306.94	28.96	46.00	-17.04	29.58	19.00	2.47	32.09	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																																																									
4	569.81	35.39	46.00	-10.61	28.40	25.93	3.36	32.30	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																																																									
5	767.20	38.92	46.00	-7.08	28.88	28.26	3.90	32.12	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																																																									
6	880.21	40.48	46.00	-5.52	28.37	29.41	4.20	31.50	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																																																									
7	915.61	113.48	46.00	67.48	100.77	29.66	4.28	31.23	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																																																									
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1	30.00	31.65	40.00	-8.35	27.90	25.35	0.47	32.07	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																																																									
2	55.22	28.54	40.00	-11.46	37.60	12.18	0.81	32.05	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																																																									
3	287.54	33.78	46.00	-12.22	34.68	18.79	2.38	32.07	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																																																									
4	569.81	35.07	46.00	-10.93	28.00	25.93	3.36	32.30	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																																																									
5	878.75	39.08	46.00	-6.92	26.92	29.48	4.19	31.51	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																																																									
6	915.61	106.76	46.00	60.76	94.05	29.66	4.28	31.23	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																																																									
7	948.11	40.28	46.00	-5.72	26.29	30.54	4.36	30.91	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																																																									

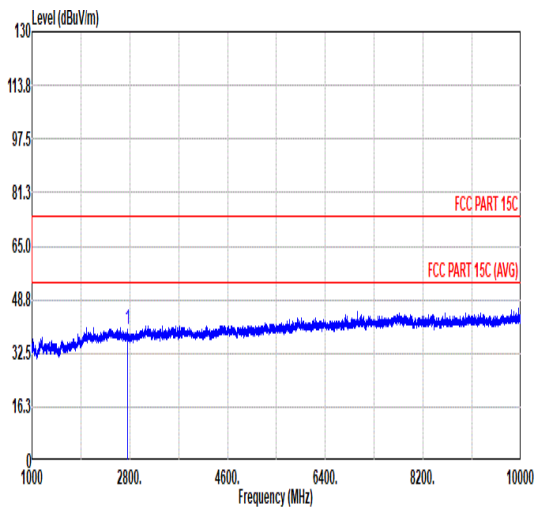
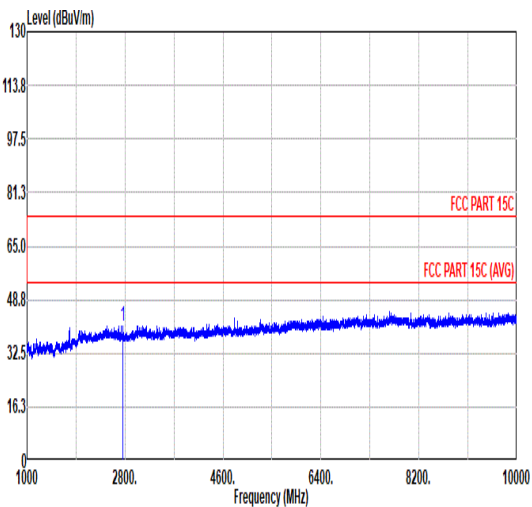
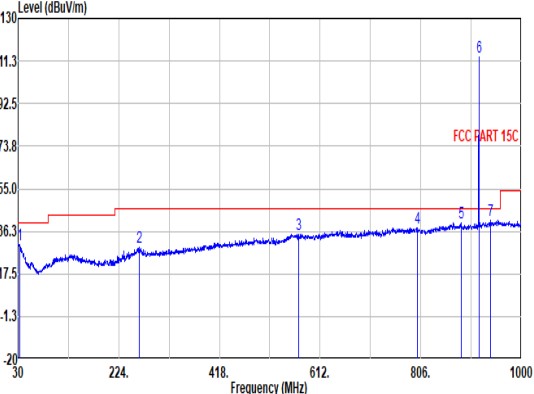
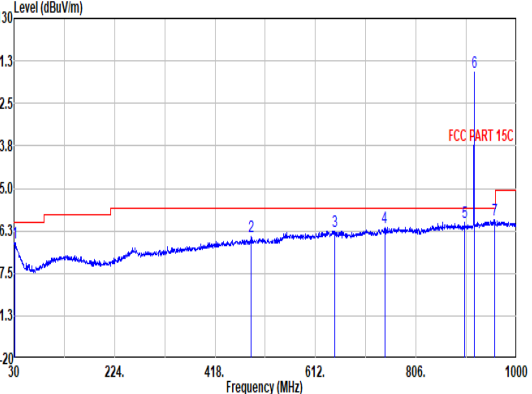


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1	2768.10	45.99	74.00	-28.01	71.03	31.97	8.53	65.54	0.00	---	---	PEAK																																																																																																																																																																																																																																																												
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<table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th></tr><tr><td>1</td><td>30.49</td><td>30.90</td><td>40.00</td><td>-9.10</td><td>27.51</td><td>24.98</td><td>0.48</td><td>32.07</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>2</td><td>265.71</td><td>28.22</td><td>46.00</td><td>-17.78</td><td>28.43</td><td>19.57</td><td>2.28</td><td>32.06</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>3</td><td>562.53</td><td>35.49</td><td>46.00</td><td>-10.51</td><td>28.33</td><td>26.13</td><td>3.34</td><td>32.31</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>4</td><td>765.75</td><td>37.00</td><td>46.00</td><td>-8.20</td><td>27.66</td><td>28.36</td><td>3.90</td><td>32.12</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>5</td><td>875.84</td><td>39.09</td><td>46.00</td><td>-6.91</td><td>26.94</td><td>29.49</td><td>4.19</td><td>31.53</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>6</td><td>922.70</td><td>114.46</td><td>46.00</td><td>68.46</td><td>101.51</td><td>29.81</td><td>4.30</td><td>31.16</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>7</td><td>941.32</td><td>41.24</td><td>46.00</td><td>-4.76</td><td>27.55</td><td>30.33</td><td>4.34</td><td>30.98</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr></table>													Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	1	30.49	30.90	40.00	-9.10	27.51	24.98	0.48	32.07	10.00	---	---	Peak	Horizontal	2	265.71	28.22	46.00	-17.78	28.43	19.57	2.28	32.06	10.00	---	---	Peak	Horizontal	3	562.53	35.49	46.00	-10.51	28.33	26.13	3.34	32.31	10.00	---	---	Peak	Horizontal	4	765.75	37.00	46.00	-8.20	27.66	28.36	3.90	32.12	10.00	---	---	Peak	Horizontal	5	875.84	39.09	46.00	-6.91	26.94	29.49	4.19	31.53	10.00	---	---	Peak	Horizontal	6	922.70	114.46	46.00	68.46	101.51	29.81	4.30	31.16	10.00	---	---	Peak	Horizontal	7	941.32	41.24	46.00	-4.76	27.55	30.33	4.34	30.98	10.00	---	---	Peak	Horizontal	 <table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th></tr><tr><td>1</td><td>31.46</td><td>31.22</td><td>40.00</td><td>-8.78</td><td>28.31</td><td>24.48</td><td>0.49</td><td>32.06</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>2</td><td>141.55</td><td>25.00</td><td>43.50</td><td>-17.70</td><td>28.87</td><td>17.31</td><td>1.65</td><td>32.03</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>3</td><td>261.83</td><td>28.36</td><td>46.00</td><td>-17.64</td><td>28.16</td><td>20.00</td><td>2.26</td><td>32.06</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>4</td><td>561.56</td><td>36.01</td><td>46.00</td><td>-9.99</td><td>28.86</td><td>26.13</td><td>3.33</td><td>32.31</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>5</td><td>788.06</td><td>38.73</td><td>46.00</td><td>-7.27</td><td>28.64</td><td>28.15</td><td>3.96</td><td>32.02</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>6</td><td>890.88</td><td>40.15</td><td>46.00</td><td>-5.85</td><td>28.15</td><td>29.21</td><td>4.23</td><td>31.44</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>7</td><td>922.70</td><td>108.00</td><td>46.00</td><td>62.00</td><td>95.05</td><td>29.81</td><td>4.30</td><td>31.16</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr></table>	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	1	31.46	31.22	40.00	-8.78	28.31	24.48	0.49	32.06	10.00	---	---	Peak	Vertical	2	141.55	25.00	43.50	-17.70	28.87	17.31	1.65	32.03	10.00	---	---	Peak	Vertical	3	261.83	28.36	46.00	-17.64	28.16	20.00	2.26	32.06	10.00	---	---	Peak	Vertical	4	561.56	36.01	46.00	-9.99	28.86	26.13	3.33	32.31	10.00	---	---	Peak	Vertical	5	788.06	38.73	46.00	-7.27	28.64	28.15	3.96	32.02	10.00	---	---	Peak	Vertical	6	890.88	40.15	46.00	-5.85	28.15	29.21	4.23	31.44	10.00	---	---	Peak	Vertical	7	922.70	108.00	46.00	62.00	95.05	29.81	4.30	31.16	10.00	---	---	Peak	Vertical
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2	265.71	28.22	46.00	-17.78	28.43	19.57	2.28	32.06	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																											
3	562.53	35.49	46.00	-10.51	28.33	26.13	3.34	32.31	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																											
4	765.75	37.00	46.00	-8.20	27.66	28.36	3.90	32.12	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																											
5	875.84	39.09	46.00	-6.91	26.94	29.49	4.19	31.53	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																											
6	922.70	114.46	46.00	68.46	101.51	29.81	4.30	31.16	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																											
7	941.32	41.24	46.00	-4.76	27.55	30.33	4.34	30.98	10.00	---	---	Peak	Horizontal																																																																																																																																																																																																																																																											
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1	31.46	31.22	40.00	-8.78	28.31	24.48	0.49	32.06	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																											
2	141.55	25.00	43.50	-17.70	28.87	17.31	1.65	32.03	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																											
3	261.83	28.36	46.00	-17.64	28.16	20.00	2.26	32.06	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																											
4	561.56	36.01	46.00	-9.99	28.86	26.13	3.33	32.31	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																											
5	788.06	38.73	46.00	-7.27	28.64	28.15	3.96	32.02	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																											
6	890.88	40.15	46.00	-5.85	28.15	29.21	4.23	31.44	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																											
7	922.70	108.00	46.00	62.00	95.05	29.81	4.30	31.16	10.00	---	---	Peak	Vertical																																																																																																																																																																																																																																																											

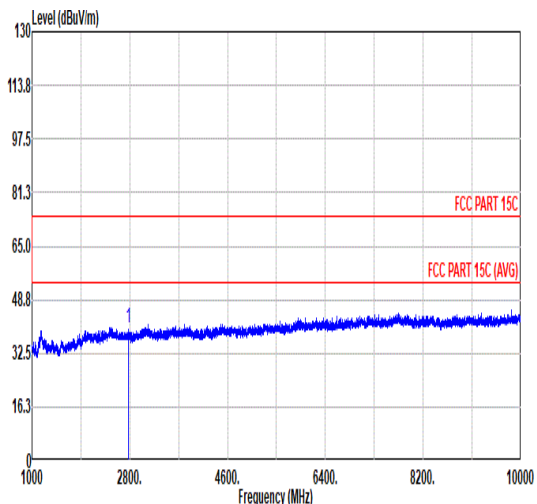
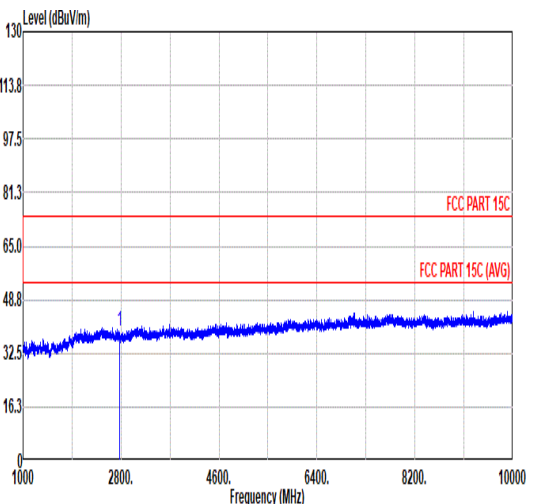
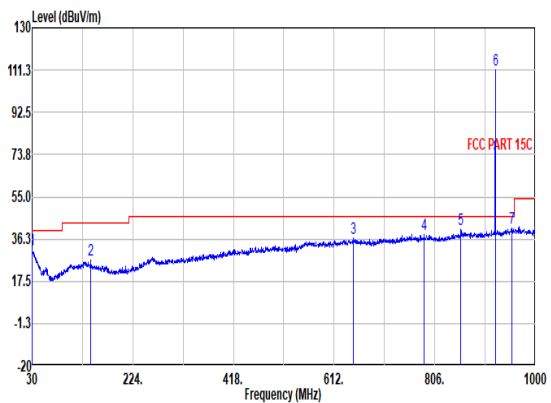
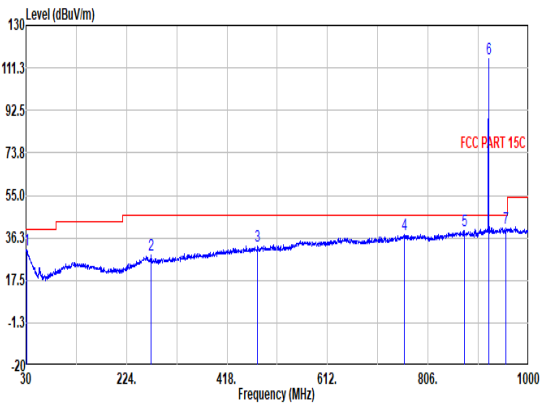


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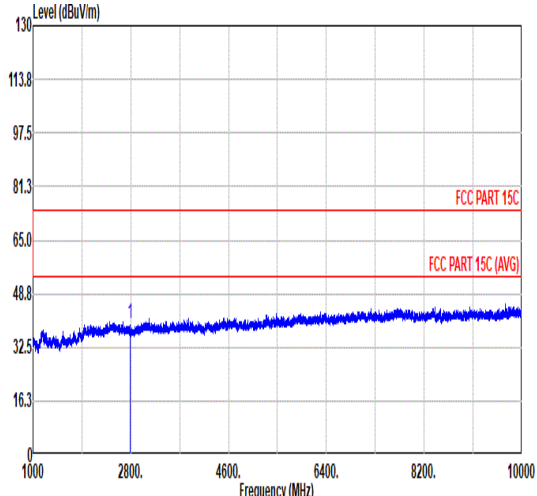
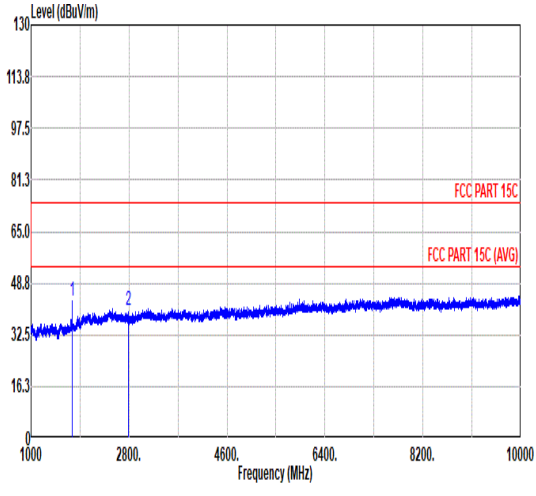
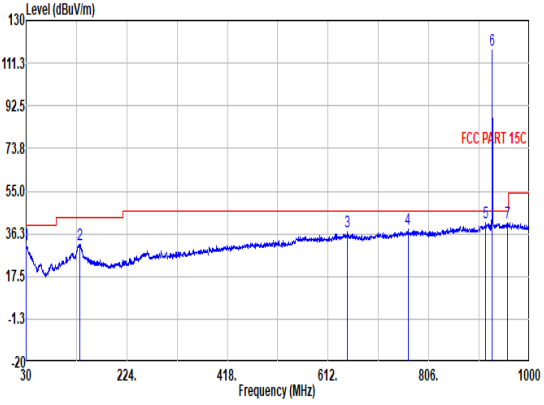
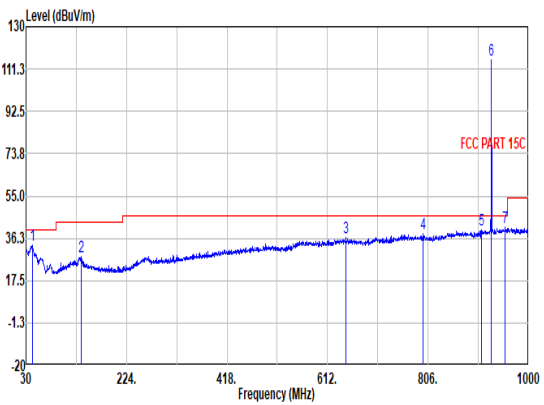


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Horizontal</td></tr><tr><td>3</td><td>570.29</td><td>35.03</td><td>46.00</td><td>-10.97</td><td>28.06</td><td>25.91</td><td>3.36</td><td>32.30</td><td>10.00</td><td>---</td><td>---</td><td>Peak Horizontal</td></tr><tr><td>4</td><td>799.70</td><td>37.97</td><td>46.00</td><td>-8.03</td><td>28.12</td><td>27.82</td><td>3.99</td><td>31.96</td><td>10.00</td><td>---</td><td>---</td><td>Peak Horizontal</td></tr><tr><td>5</td><td>883.60</td><td>40.23</td><td>46.00</td><td>-5.77</td><td>28.07</td><td>29.43</td><td>4.21</td><td>31.48</td><td>10.00</td><td>---</td><td>---</td><td>Peak Horizontal</td></tr><tr><td>6</td><td>918.04</td><td>112.75</td><td>46.00</td><td>66.75</td><td>99.90</td><td>29.76</td><td>4.29</td><td>31.20</td><td>10.00</td><td>---</td><td>---</td><td>Peak Horizontal</td></tr><tr><td>7</td><td>940.83</td><td>41.16</td><td>46.00</td><td>-4.84</td><td>27.48</td><td>30.32</td><td>4.34</td><td>30.98</td><td>10.00</td><td>---</td><td>---</td><td>Peak Horizontal</td></tr></table>													Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos				Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	Pol/Phase	1	32.91	30.19	40.00	-9.81	28.05	23.68	0.51	32.05	10.00	---	---	Peak Horizontal	2	262.00	29.05	46.00	-16.95	28.88	19.96	2.27	32.06	10.00	---	---	Peak Horizontal	3	570.29	35.03	46.00	-10.97	28.06	25.91	3.36	32.30	10.00	---	---	Peak Horizontal	4	799.70	37.97	46.00	-8.03	28.12	27.82	3.99	31.96	10.00	---	---	Peak Horizontal	5	883.60	40.23	46.00	-5.77	28.07	29.43	4.21	31.48	10.00	---	---	Peak Horizontal	6	918.04	112.75	46.00	66.75	99.90	29.76	4.29	31.20	10.00	---	---	Peak Horizontal	7	940.83	41.16	46.00	-4.84	27.48	30.32	4.34	30.98	10.00	---	---	Peak Horizontal	<table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="3"></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th colspan="3">Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th>Pol/Phase</th></tr><tr><td>1</td><td>31.94</td><td>30.86</td><td>40.00</td><td>-9.14</td><td>28.06</td><td>24.36</td><td>0.50</td><td>32.06</td><td>10.00</td><td>---</td><td>---</td><td>Peak Vertical</td></tr><tr><td>2</td><td>488.33</td><td>33.59</td><td>46.00</td><td>-12.41</td><td>29.03</td><td>23.69</td><td>3.11</td><td>32.24</td><td>10.00</td><td>---</td><td>---</td><td>Peak Vertical</td></tr><tr><td>3</td><td>648.86</td><td>36.28</td><td>46.00</td><td>-9.72</td><td>27.66</td><td>27.29</td><td>3.59</td><td>32.26</td><td>10.00</td><td>---</td><td>---</td><td>Peak Vertical</td></tr><tr><td>4</td><td>745.38</td><td>37.62</td><td>46.00</td><td>-8.38</td><td>28.22</td><td>27.76</td><td>3.85</td><td>32.21</td><td>10.00</td><td>---</td><td>---</td><td>Peak Vertical</td></tr><tr><td>5</td><td>899.61</td><td>39.86</td><td>46.00</td><td>-6.14</td><td>27.86</td><td>29.13</td><td>4.25</td><td>31.38</td><td>10.00</td><td>---</td><td>---</td><td>Peak Vertical</td></tr><tr><td>6</td><td>918.04</td><td>106.28</td><td>46.00</td><td>60.28</td><td>93.43</td><td>29.76</td><td>4.29</td><td>31.20</td><td>10.00</td><td>---</td><td>---</td><td>Peak Vertical</td></tr><tr><td>7</td><td>957.32</td><td>41.21</td><td>46.00</td><td>-4.79</td><td>26.88</td><td>30.79</td><td>4.38</td><td>30.84</td><td>10.00</td><td>---</td><td>---</td><td>Peak Vertical</td></tr></table>													Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos				Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	Pol/Phase	1	31.94	30.86	40.00	-9.14	28.06	24.36	0.50	32.06	10.00	---	---	Peak Vertical	2	488.33	33.59	46.00	-12.41	29.03	23.69	3.11	32.24	10.00	---	---	Peak Vertical	3	648.86	36.28	46.00	-9.72	27.66	27.29	3.59	32.26	10.00	---	---	Peak Vertical	4	745.38	37.62	46.00	-8.38	28.22	27.76	3.85	32.21	10.00	---	---	Peak Vertical	5	899.61	39.86	46.00	-6.14	27.86	29.13	4.25	31.38	10.00	---	---	Peak Vertical	6	918.04	106.28	46.00	60.28	93.43	29.76	4.29	31.20	10.00	---	---	Peak Vertical	7	957.32	41.21	46.00	-4.79	26.88	30.79	4.38	30.84	10.00	---	---
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5	883.60	40.23	46.00	-5.77	28.07	29.43	4.21	31.48	10.00	---	---	Peak Horizontal																																																																																																																																																																																																																																																																											
6	918.04	112.75	46.00	66.75	99.90	29.76	4.29	31.20	10.00	---	---	Peak Horizontal																																																																																																																																																																																																																																																																											
7	940.83	41.16	46.00	-4.84	27.48	30.32	4.34	30.98	10.00	---	---	Peak Horizontal																																																																																																																																																																																																																																																																											
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1	31.94	30.86	40.00	-9.14	28.06	24.36	0.50	32.06	10.00	---	---	Peak Vertical																																																																																																																																																																																																																																																																											
2	488.33	33.59	46.00	-12.41	29.03	23.69	3.11	32.24	10.00	---	---	Peak Vertical																																																																																																																																																																																																																																																																											
3	648.86	36.28	46.00	-9.72	27.66	27.29	3.59	32.26	10.00	---	---	Peak Vertical																																																																																																																																																																																																																																																																											
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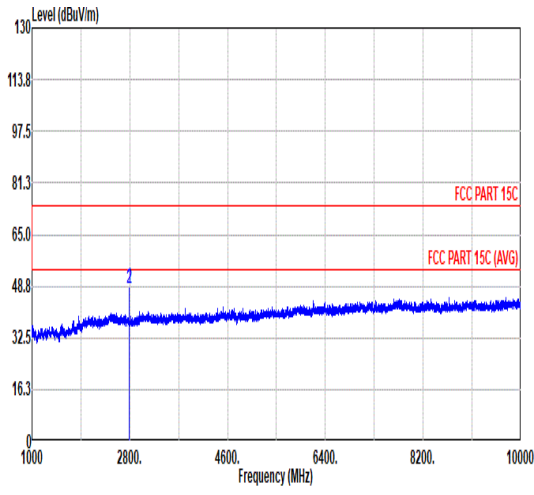
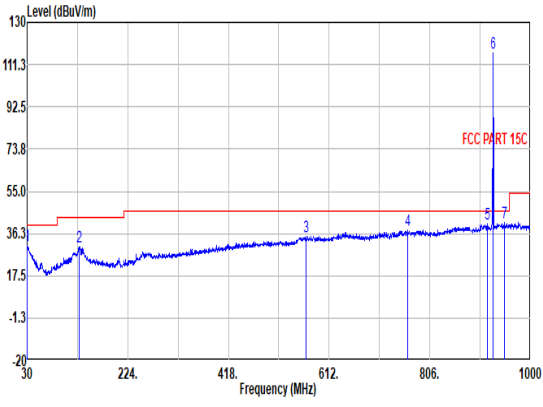


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Peak	 <table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>30.00</td><td>31.70</td><td>40.00</td><td>-8.30</td><td>27.95</td><td>25.35</td><td>0.47</td><td>32.07</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>2</td><td>143.01</td><td>26.85</td><td>43.50</td><td>-16.65</td><td>29.94</td><td>17.28</td><td>1.66</td><td>32.03</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>3</td><td>648.38</td><td>36.62</td><td>46.00</td><td>-9.38</td><td>28.03</td><td>27.26</td><td>3.59</td><td>32.26</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>4</td><td>785.15</td><td>38.28</td><td>46.00</td><td>-7.72</td><td>28.12</td><td>28.24</td><td>3.95</td><td>32.03</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>5</td><td>856.44</td><td>40.59</td><td>46.00</td><td>-5.41</td><td>28.89</td><td>29.21</td><td>4.14</td><td>31.65</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>6</td><td>922.89</td><td>111.50</td><td>46.00</td><td>65.50</td><td>98.54</td><td>29.82</td><td>4.30</td><td>31.16</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr><tr><td>7</td><td>953.93</td><td>40.88</td><td>46.00</td><td>-5.12</td><td>26.72</td><td>30.65</td><td>4.37</td><td>30.86</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Horizontal</td></tr></table>													Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	30.00	31.70	40.00	-8.30	27.95	25.35	0.47	32.07	10.00	---	---	Peak	Horizontal	2	143.01	26.85	43.50	-16.65	29.94	17.28	1.66	32.03	10.00	---	---	Peak	Horizontal	3	648.38	36.62	46.00	-9.38	28.03	27.26	3.59	32.26	10.00	---	---	Peak	Horizontal	4	785.15	38.28	46.00	-7.72	28.12	28.24	3.95	32.03	10.00	---	---	Peak	Horizontal	5	856.44	40.59	46.00	-5.41	28.89	29.21	4.14	31.65	10.00	---	---	Peak	Horizontal	6	922.89	111.50	46.00	65.50	98.54	29.82	4.30	31.16	10.00	---	---	Peak	Horizontal	7	953.93	40.88	46.00	-5.12	26.72	30.65	4.37	30.86	10.00	---	---	Peak	Horizontal	 <table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>31.46</td><td>30.83</td><td>40.00</td><td>-9.17</td><td>27.92</td><td>24.48</td><td>0.49</td><td>32.06</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>2</td><td>272.02</td><td>28.45</td><td>46.00</td><td>-17.55</td><td>29.65</td><td>18.55</td><td>2.31</td><td>32.06</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>3</td><td>476.69</td><td>32.84</td><td>46.00</td><td>-13.16</td><td>28.59</td><td>23.40</td><td>3.08</td><td>32.23</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>4</td><td>760.41</td><td>37.87</td><td>46.00</td><td>-8.13</td><td>27.78</td><td>28.35</td><td>3.89</td><td>32.15</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>5</td><td>875.84</td><td>39.45</td><td>46.00</td><td>-6.55</td><td>27.30</td><td>29.49</td><td>4.19</td><td>31.53</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>6</td><td>922.89</td><td>115.51</td><td>46.00</td><td>69.51</td><td>102.55</td><td>29.82</td><td>4.30</td><td>31.16</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>7</td><td>956.35</td><td>40.57</td><td>46.00</td><td>-5.43</td><td>26.33</td><td>30.72</td><td>4.37</td><td>30.85</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr></table>													Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Pol/Phase	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	31.46	30.83	40.00	-9.17	27.92	24.48	0.49	32.06	10.00	---	---	Peak	Vertical	2	272.02	28.45	46.00	-17.55	29.65	18.55	2.31	32.06	10.00	---	---	Peak	Vertical	3	476.69	32.84	46.00	-13.16	28.59	23.40	3.08	32.23	10.00	---	---	Peak	Vertical	4	760.41	37.87	46.00	-8.13	27.78	28.35	3.89	32.15	10.00	---	---	Peak	Vertical	5	875.84	39.45	46.00	-6.55	27.30	29.49	4.19	31.53	10.00	---	---	Peak	Vertical	6	922.89	115.51	46.00	69.51	102.55	29.82	4.30	31.16	10.00	---	---	Peak	Vertical	7	956.35	40.57	46.00	-5.43	26.33	30.72	4.37	30.85	10.00	---	---	Peak	Vertical
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2	2783.10	40.23	74.00	-33.77	65.21	32.03	8.55	65.56	0.00	---	---	PEAK																																																																																																																																																																																																																																																																																	
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	<table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="4"></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th colspan="4">Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th colspan="2"></th></tr><tr><td>1</td><td>30.00</td><td>31.59</td><td>40.00</td><td>-8.41</td><td>27.84</td><td>25.35</td><td>0.47</td><td>32.07</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>133.31</td><td>31.67</td><td>43.50</td><td>-11.83</td><td>34.54</td><td>17.56</td><td>1.00</td><td>32.03</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>648.86</td><td>37.29</td><td>46.00</td><td>-8.71</td><td>28.67</td><td>27.29</td><td>3.59</td><td>32.26</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>765.75</td><td>38.54</td><td>46.00</td><td>-7.46</td><td>28.40</td><td>28.36</td><td>3.90</td><td>32.12</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>915.61</td><td>40.86</td><td>46.00</td><td>-5.14</td><td>28.15</td><td>29.66</td><td>4.28</td><td>31.23</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>927.74</td><td>116.99</td><td>46.00</td><td>70.99</td><td>103.80</td><td>29.99</td><td>4.31</td><td>31.11</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>7</td><td>957.32</td><td>40.89</td><td>46.00</td><td>-5.11</td><td>26.56</td><td>30.79</td><td>4.38</td><td>30.84</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>													Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos					Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1	30.00	31.59	40.00	-8.41	27.84	25.35	0.47	32.07	10.00	---	---	Peak	2	133.31	31.67	43.50	-11.83	34.54	17.56	1.00	32.03	10.00	---	---	Peak	3	648.86	37.29	46.00	-8.71	28.67	27.29	3.59	32.26	10.00	---	---	Peak	4	765.75	38.54	46.00	-7.46	28.40	28.36	3.90	32.12	10.00	---	---	Peak	5	915.61	40.86	46.00	-5.14	28.15	29.66	4.28	31.23	10.00	---	---	Peak	6	927.74	116.99	46.00	70.99	103.80	29.99	4.31	31.11	10.00	---	---	Peak	7	957.32	40.89	46.00	-5.11	26.56	30.79	4.38	30.84	10.00	---	---	Peak	<table><tr><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="4"></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th colspan="4">Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th colspan="2"></th></tr><tr><td>1</td><td>42.13</td><td>33.21</td><td>40.00</td><td>-6.79</td><td>36.00</td><td>18.65</td><td>0.64</td><td>32.08</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>136.22</td><td>28.29</td><td>43.50</td><td>-15.21</td><td>31.19</td><td>17.51</td><td>1.62</td><td>32.03</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>647.89</td><td>36.39</td><td>46.00</td><td>-9.61</td><td>27.84</td><td>27.23</td><td>3.58</td><td>32.26</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>796.30</td><td>38.35</td><td>46.00</td><td>-7.65</td><td>28.24</td><td>28.11</td><td>3.98</td><td>31.98</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>908.82</td><td>40.01</td><td>46.00</td><td>-5.99</td><td>27.51</td><td>29.52</td><td>4.27</td><td>31.29</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>927.74</td><td>115.09</td><td>46.00</td><td>69.09</td><td>101.90</td><td>29.99</td><td>4.31</td><td>31.11</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>7</td><td>954.90</td><td>41.37</td><td>46.00</td><td>-4.63</td><td>27.19</td><td>30.67</td><td>4.37</td><td>30.86</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td></tr></table>													Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos					Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg			1	42.13	33.21	40.00	-6.79	36.00	18.65	0.64	32.08	10.00	---	---	Peak	2	136.22	28.29	43.50	-15.21	31.19	17.51	1.62	32.03	10.00	---	---	Peak	3	647.89	36.39	46.00	-9.61	27.84	27.23	3.58	32.26	10.00	---	---	Peak	4	796.30	38.35	46.00	-7.65	28.24	28.11	3.98	31.98	10.00	---	---	Peak	5	908.82	40.01	46.00	-5.99	27.51	29.52	4.27	31.29	10.00	---	---	Peak	6	927.74	115.09	46.00	69.09	101.90	29.99	4.31	31.11	10.00	---	---	Peak	7	954.90	41.37	46.00	-4.63	27.19	30.67	4.37	30.86	10.00	---	---
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3	647.89	36.39	46.00	-9.61	27.84	27.23	3.58	32.26	10.00	---	---	Peak																																																																																																																																																																																																																																																																																	
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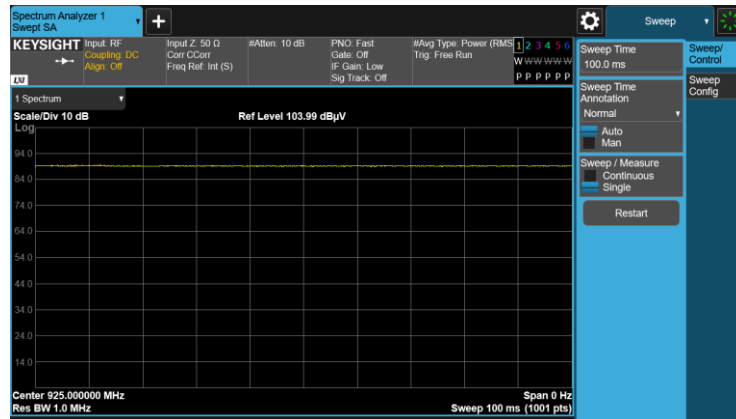
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3	567.38	35.16	46.00	-10.84	28.12	26.00	3.35	32.31	10.00	---	---	Peak	Horizontal																																																																																																																								
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5	917.07	40.60	46.00	-5.40	27.81	29.71	4.29	31.21	10.00	---	---	Peak	Horizontal																																																																																																																								
6	927.74	116.65	46.00	70.65	103.46	29.99	4.31	31.11	10.00	---	---	Peak	Horizontal																																																																																																																								
7	950.05	41.01	46.00	-4.99	26.85	30.69	4.36	30.89	10.00	---	---	Peak	Horizontal																																																																																																																								
	<table><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th>Remark</th></tr><tr><td>1</td><td>39.70</td><td>31.61</td><td>40.00</td><td>-8.39</td><td>32.95</td><td>20.12</td><td>0.61</td><td>32.07</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>2</td><td>132.34</td><td>27.38</td><td>43.50</td><td>-16.12</td><td>30.26</td><td>17.55</td><td>1.60</td><td>32.03</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>3</td><td>265.71</td><td>28.68</td><td>46.00</td><td>-17.32</td><td>28.89</td><td>19.57</td><td>2.28</td><td>32.06</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>4</td><td>573.69</td><td>35.74</td><td>46.00</td><td>-10.26</td><td>28.82</td><td>25.85</td><td>3.37</td><td>32.30</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>5</td><td>881.66</td><td>39.47</td><td>46.00</td><td>-6.53</td><td>27.32</td><td>29.44</td><td>4.20</td><td>31.49</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>6</td><td>927.74</td><td>109.01</td><td>46.00</td><td>63.01</td><td>95.82</td><td>29.99</td><td>4.31</td><td>31.11</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr><tr><td>7</td><td>934.04</td><td>40.77</td><td>46.00</td><td>-5.23</td><td>27.41</td><td>30.09</td><td>4.32</td><td>31.05</td><td>10.00</td><td>---</td><td>---</td><td>Peak</td><td>Vertical</td></tr></table>														Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark	1	39.70	31.61	40.00	-8.39	32.95	20.12	0.61	32.07	10.00	---	---	Peak	Vertical	2	132.34	27.38	43.50	-16.12	30.26	17.55	1.60	32.03	10.00	---	---	Peak	Vertical	3	265.71	28.68	46.00	-17.32	28.89	19.57	2.28	32.06	10.00	---	---	Peak	Vertical	4	573.69	35.74	46.00	-10.26	28.82	25.85	3.37	32.30	10.00	---	---	Peak	Vertical	5	881.66	39.47	46.00	-6.53	27.32	29.44	4.20	31.49	10.00	---	---	Peak	Vertical	6	927.74	109.01	46.00	63.01	95.82	29.99	4.31	31.11	10.00	---	---	Peak	Vertical	7	934.04	40.77	46.00	-5.23	27.41	30.09	4.32	31.05	10.00	---	---	Peak	Vertical
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																												
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																																																											
1	39.70	31.61	40.00	-8.39	32.95	20.12	0.61	32.07	10.00	---	---	Peak	Vertical																																																																																																																								
2	132.34	27.38	43.50	-16.12	30.26	17.55	1.60	32.03	10.00	---	---	Peak	Vertical																																																																																																																								
3	265.71	28.68	46.00	-17.32	28.89	19.57	2.28	32.06	10.00	---	---	Peak	Vertical																																																																																																																								
4	573.69	35.74	46.00	-10.26	28.82	25.85	3.37	32.30	10.00	---	---	Peak	Vertical																																																																																																																								
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Note: For all plots above, the over limit line signals are Fundamental signal which can be ignored.

Appendix C. Duty Cycle Plots

External Antenna

RFID on time Plot

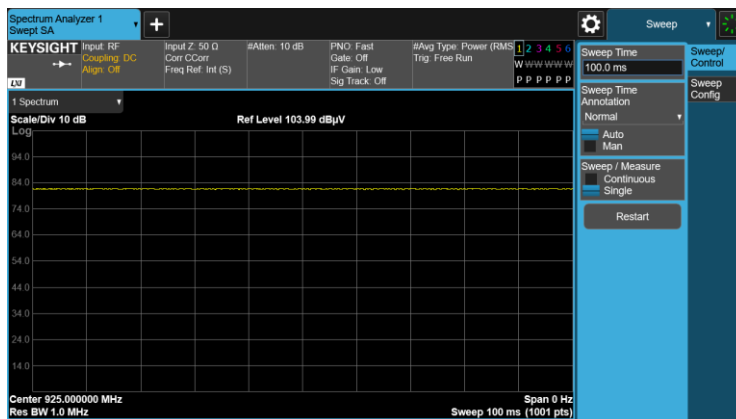


Note:

1. Worst case Duty cycle = 100 %
2. Worst case Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = 0 \text{ dB}$
3. RFID has the highest duty cycle worst case and is reported.

Internal Antenna

RFID on time Plot



Note:

1. Worst case Duty cycle = 100 %
2. Worst case Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = 0 \text{ dB}$
3. RFID has the highest duty cycle worst case and is reported.