



FCC RF Test Report

APPLICANT : VeriFone, Inc.
EQUIPMENT : Point of Sale Terminal
BRAND NAME : Verifone & VERIFONE
MODEL NAME : V660p-A,V660p Plus-A
FCC ID : B32V660PA
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Apr. 20, 2024 ~ Jun. 19, 2024

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)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR440202E	Rev. 01	Initial issue of report	Jul. 02, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 & 15.403(i)	26dB & 99% Bandwidth	-	Report only	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	Pass	Under limit 3.09 dB at 5354.490 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.29 dB at 0.459 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	Pass	-

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 Applicant

VeriFone, Inc.

1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.2 Manufacturer

VeriFone, Inc.

1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Point of Sale Terminal
Brand Name	Verifone & VERIFONE
Model Name	V660p-A, V660p Plus-A
FCC ID	B32V660PA
IMEI Code	Conducted: 356784410000664/356784410000672 Conduction: 355510160000062/355510160000070 Radiation: 356784410000144/356784410000151
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two samples under test, Sample 1 (V660p-A) is dual P-SIM sample, and Sample 2 (V660p Plus-A) is P-SIM + E-SIM sample. The difference does not affect RF features, full test Sample 1 for representative.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna	<5180 MHz ~ 5240 MHz> 802.11a : 16.73 dBm / 0.0471 W 802.11n HT20 : 16.71 dBm / 0.0469 W 802.11n HT40 : 16.53 dBm / 0.0450 W 802.11ac VHT20 : 15.82 dBm / 0.0382 W 802.11ac VHT40 : 15.84 dBm / 0.0384 W 802.11ac VHT80 : 13.63 dBm / 0.0231 W <5260 MHz ~ 5320 MHz> 802.11a : 16.43 dBm / 0.0440 W 802.11n HT20 : 16.28 dBm / 0.0425 W 802.11n HT40 : 16.08 dBm / 0.0406 W 802.11ac VHT20 : 15.62 dBm / 0.0365 W

	802.11ac VHT40 : 15.56 dBm / 0.0360 W 802.11ac VHT80 : 12.05 dBm / 0.0160 W <5500 MHz ~ 5720 MHz > 802.11a : 16.61 dBm / 0.0458 W 802.11n HT20 : 16.48 dBm / 0.0445 W 802.11n HT40 : 16.44 dBm / 0.0441 W 802.11ac VHT20 : 15.65 dBm / 0.0367 W 802.11ac VHT40 : 15.39 dBm / 0.0346 W 802.11ac VHT80 : 14.30 dBm / 0.0269 W
99% Occupied Bandwidth	<5180 MHz ~ 5240 MHz> 802.11a : 16.783 MHz 802.11n HT20 : 17.932 MHz 802.11n HT40 : 36.563 MHz 802.11ac VHT80 : 75.644 MHz <5260 MHz ~ 5320 MHz> 802.11a : 16.783 MHz 802.11n HT20 : 17.882 MHz 802.11n HT40 : 36.563 MHz 802.11ac VHT80 : 75.524 MHz <5500 MHz ~ 5720 MHz > 802.11a : 16.783 MHz 802.11n HT20 : 17.932 MHz 802.11n HT40 : 36.663 MHz 802.11ac VHT80 : 75.884 MHz
Antenna Type / Gain	<5180 MHz ~ 5240 MHz> Monopole Antenna with gain 1.60 dBi <5260 MHz ~ 5320 MHz> Monopole Antenna with gain 1.60 dBi <5500 MHz ~ 5720 MHz> Monopole Antenna with gain 0.30 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

Note: For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11n HT20/HT40 by referring to their maximum output power.

1.5 Modification of EUT

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



1.6 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.
	CO01-KS 03CH08-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	03CH08-KS	AUDIX	E3	210616
3.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 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 E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ 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: conduction emission (150 kHz to 30 MHz), 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 (Y plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5180-5240 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5500- 5720 MHz MHz U-NII-2C	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700



Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710	-	-

Note:

1. The above Frequency and Channel in "*" are 40MHz bandwidth.
2. The above Frequency and Channel in "[#]" are 80MHz bandwidth.



2.2 Test Mode

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

SISO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WCDMA 850 Idle + WIFI 5G Link + Bluetooth Link + USB Cable(charging from Adaptor 4 + Earphone + Battery
Remark: The Radiated Test Cases were tested with Adapter 8, Battery, Earphone, USB Cable.	

Simultaneous transmission
Wifi 5G 802.11ac VHT80_CH58 TX + LTE Band 13 Link



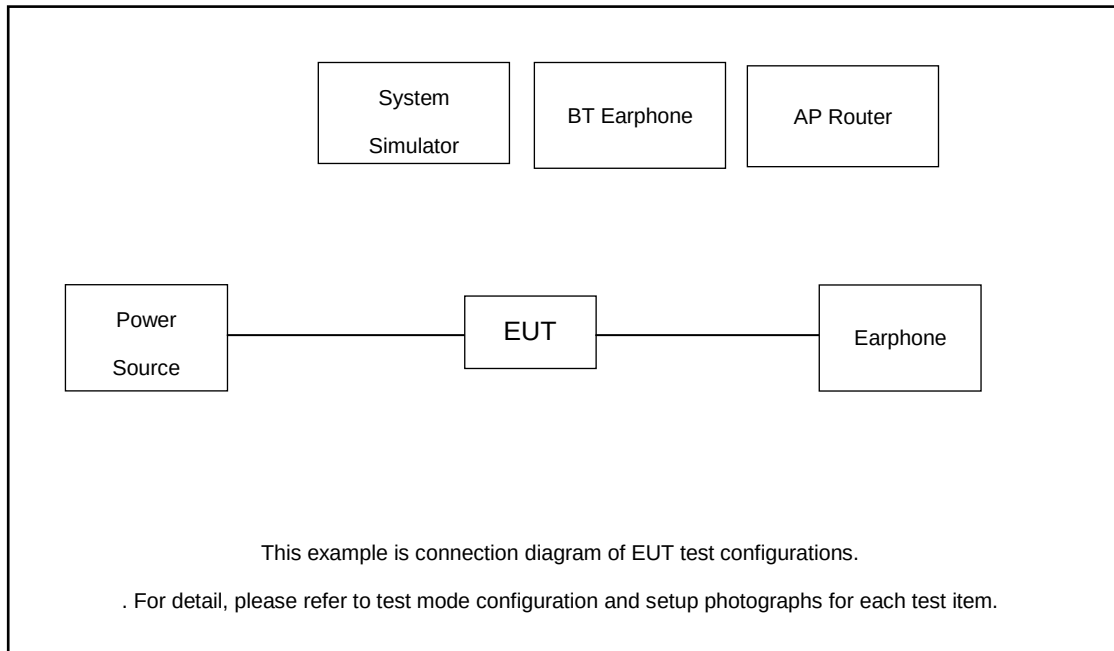
Ch. #		U-NII-1	U-NII-2A	U-NII-2C
		20M BW	20M BW	20M BW
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		U-NII-1	U-NII-2A	U-NII-2C
		40M BW	40M BW	40M BW
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

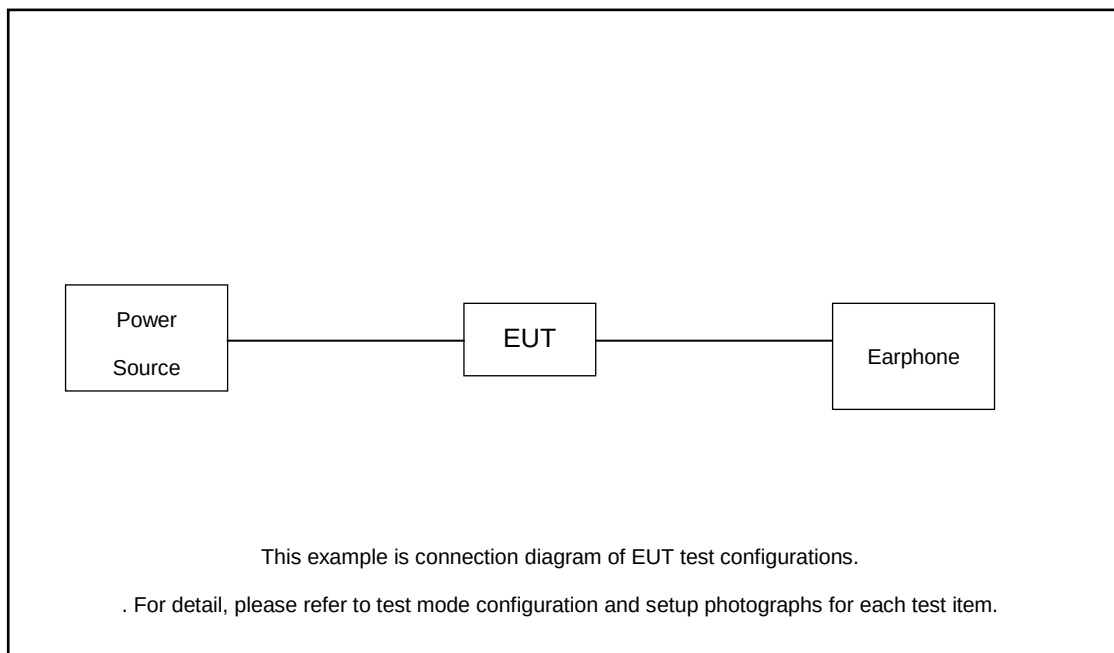
Ch. #		U-NII-1	U-NII-2A	U-NII-2C
		80M BW	80M BW	80M BW
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

2.3 Connection Diagram of Test System

AC Conducted Emission:



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.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	Unshielded AC I/P cable 1.8m
4.	WLAN AP	EDIMAX	EW-7679WAC	NDD9576791401	N/A	Unshielded,1.8m

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7.00 dB

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 7.00(\text{dB})\end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

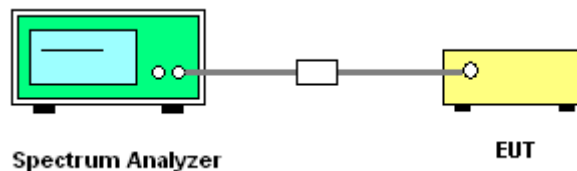
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the OBW and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

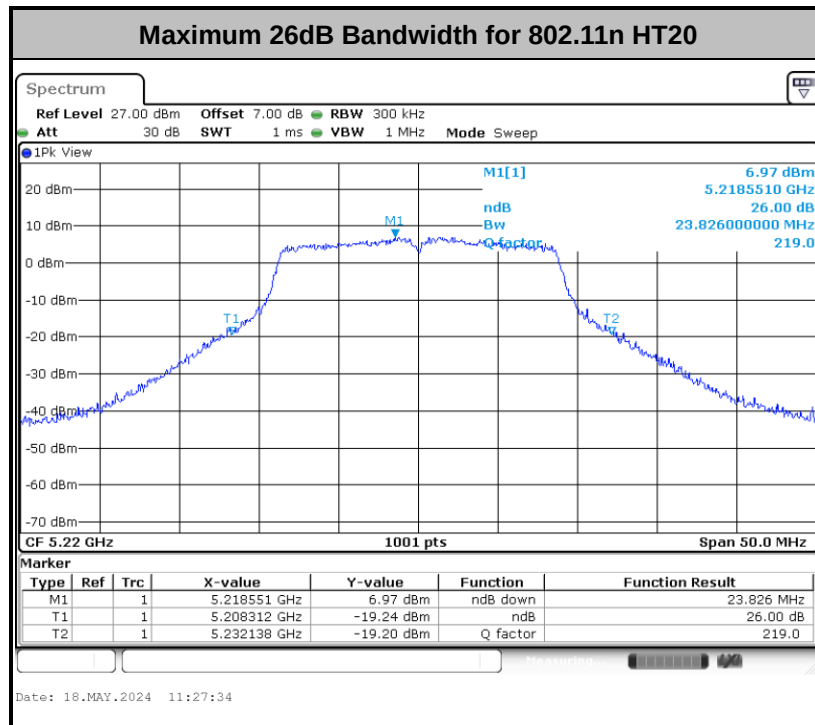
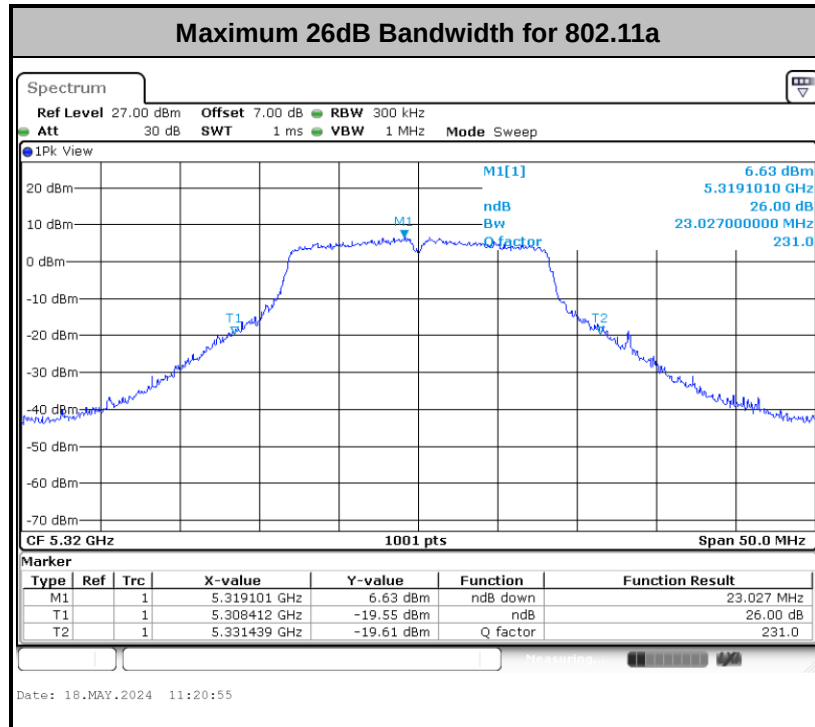
3.1.4 Test Setup

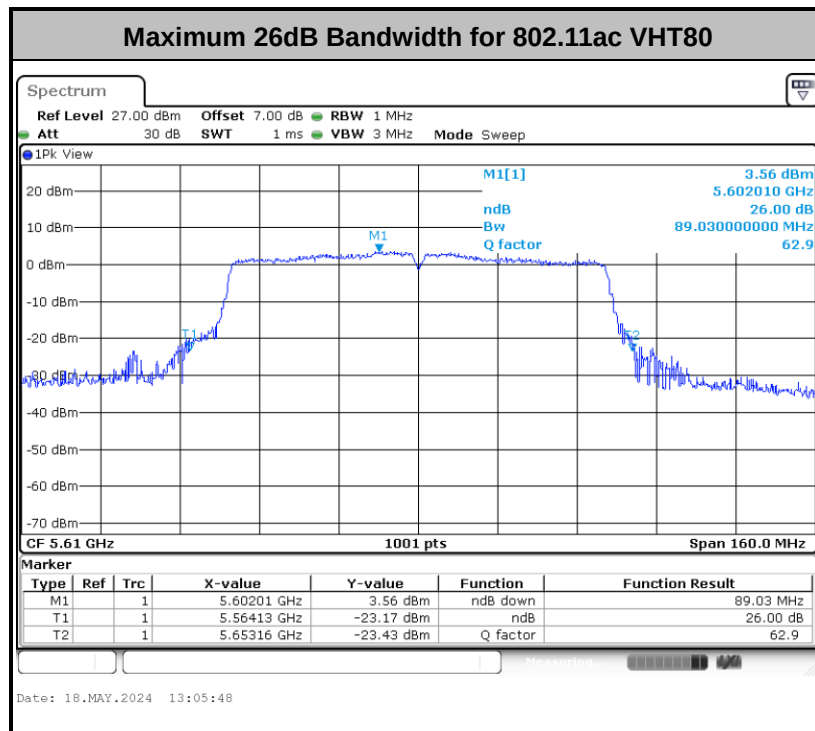
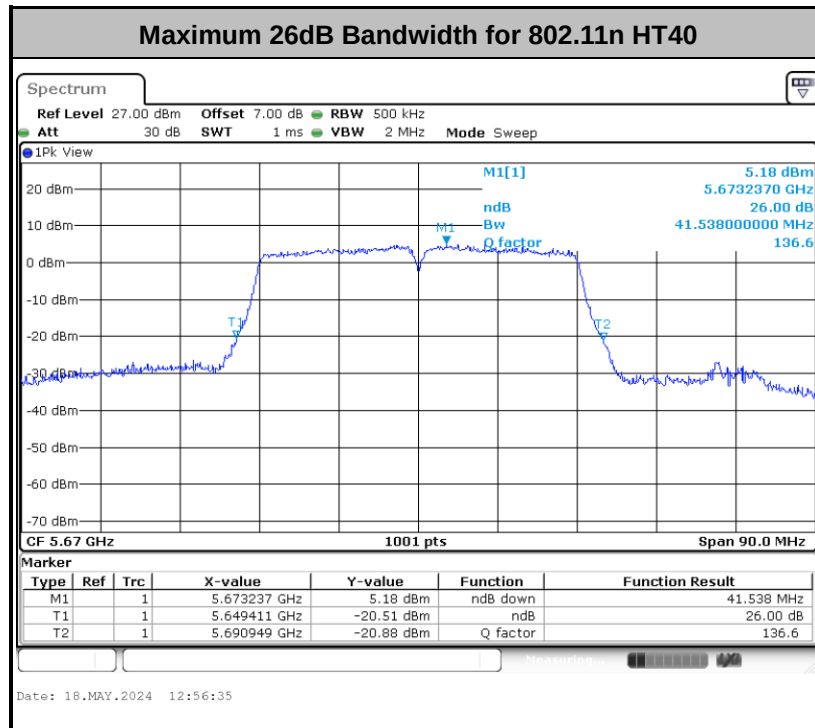


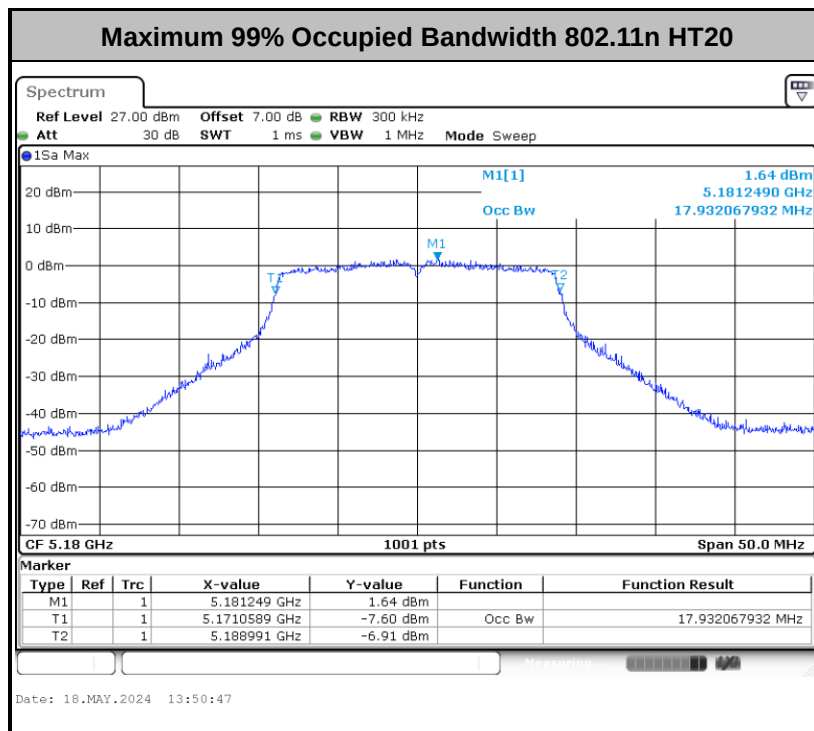
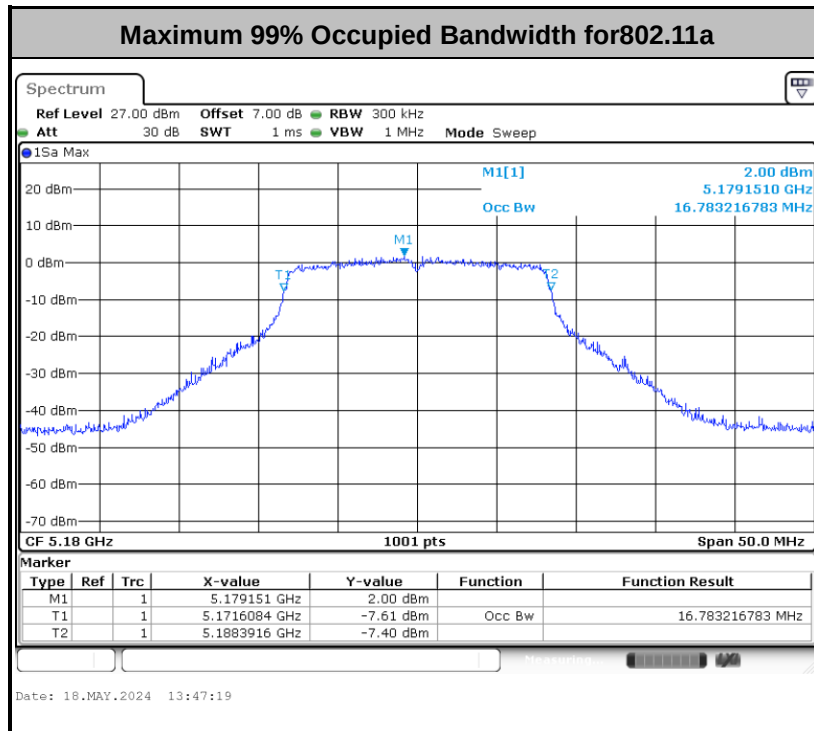


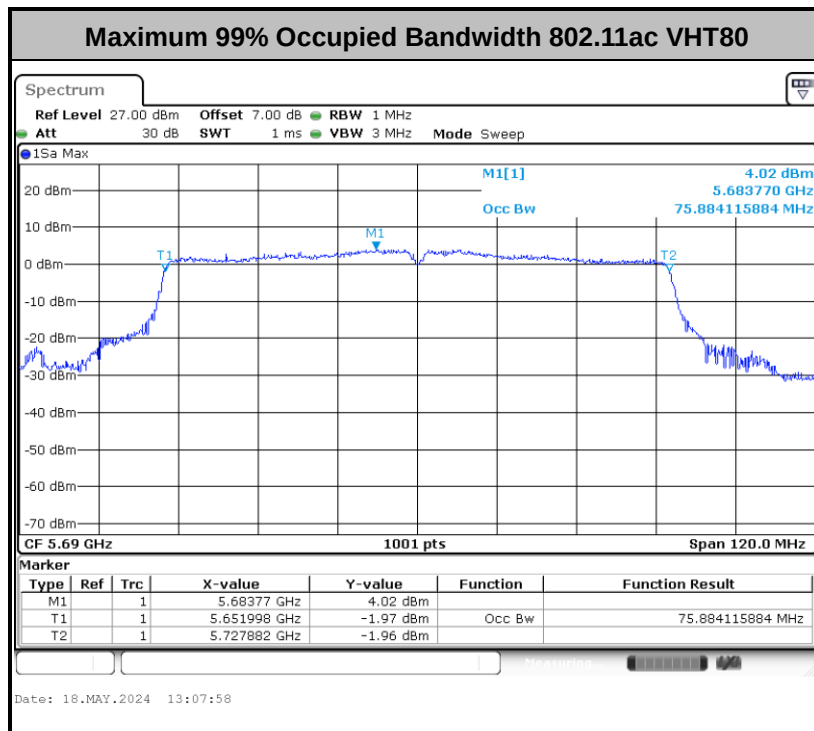
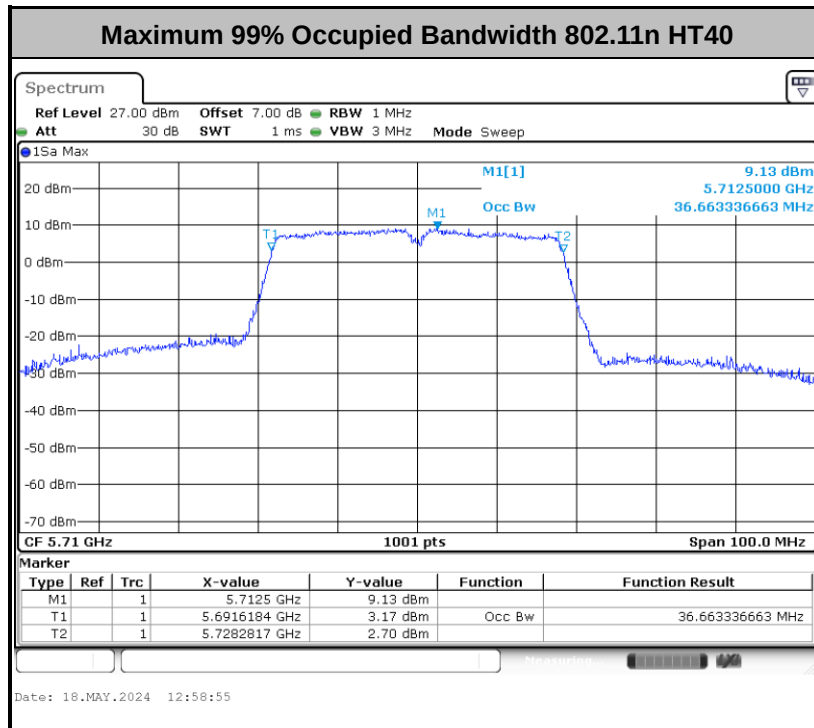
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.









Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log_{10} B$, where B is the 26 dB emission bandwidth in megahertz.

For the 5.47–5.6 GHz and 5.65–5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

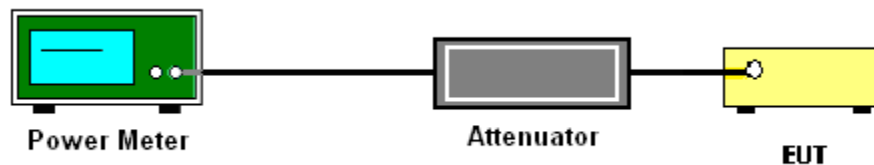
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

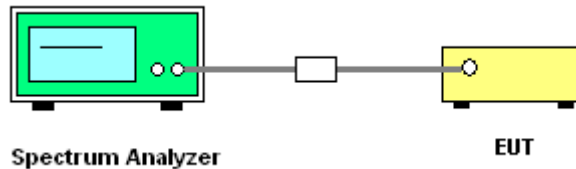
Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

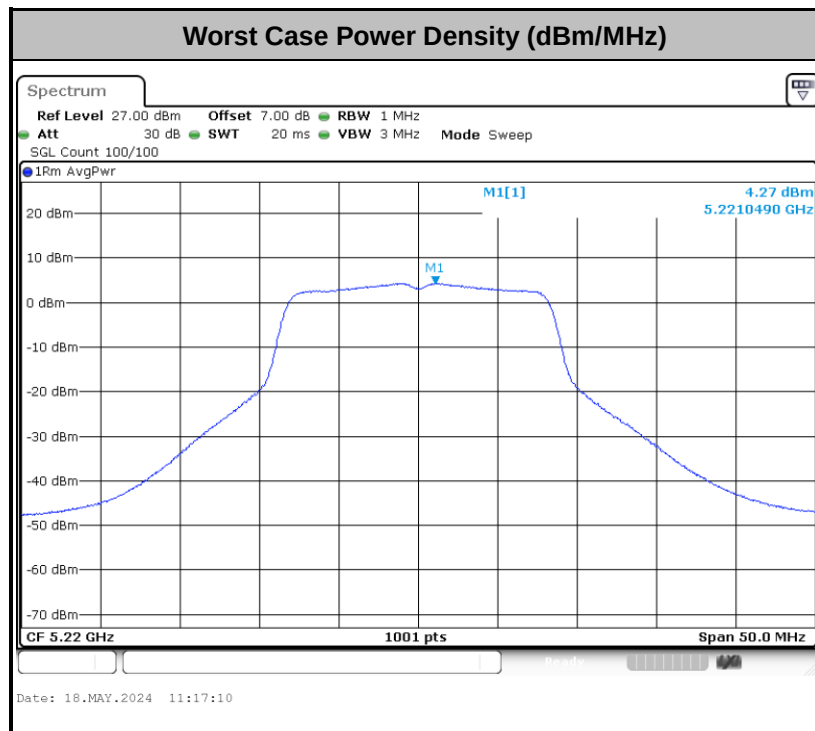
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



Note: Average Power Density (dB) = Measured value+ Duty Factor

3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5725 MHz band: all emissions outside of the 5470-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) 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



EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

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

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

(3) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.4.2 Measuring Instruments

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

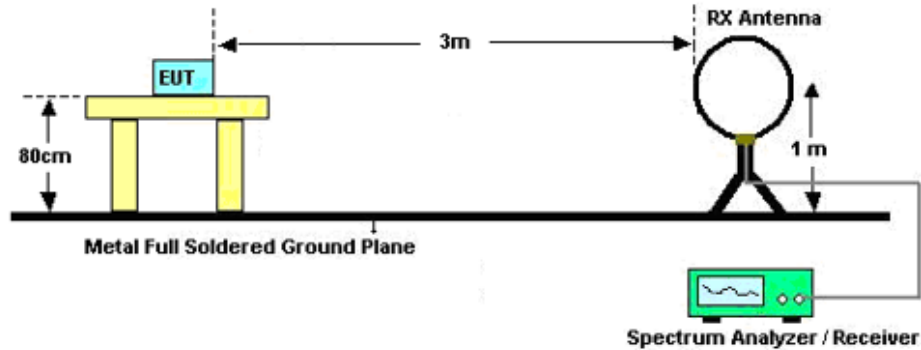


3.4.3 Test Procedures

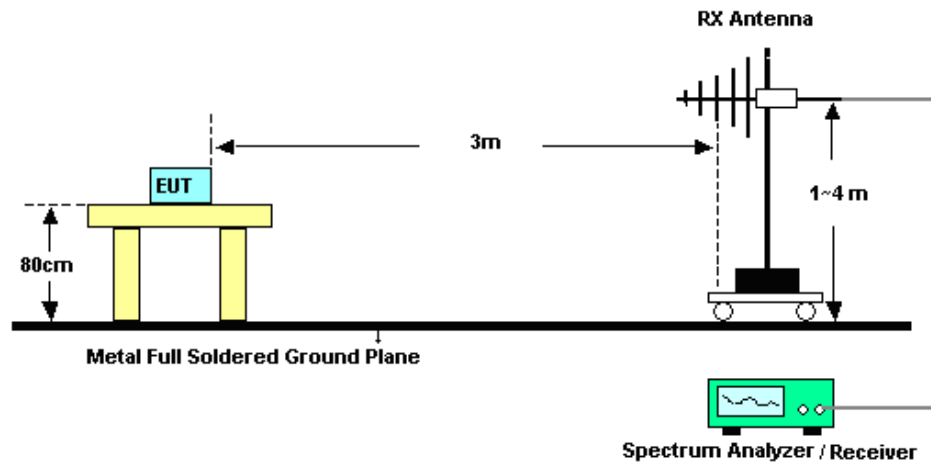
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak 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.
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 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.

3.4.4 Test Setup

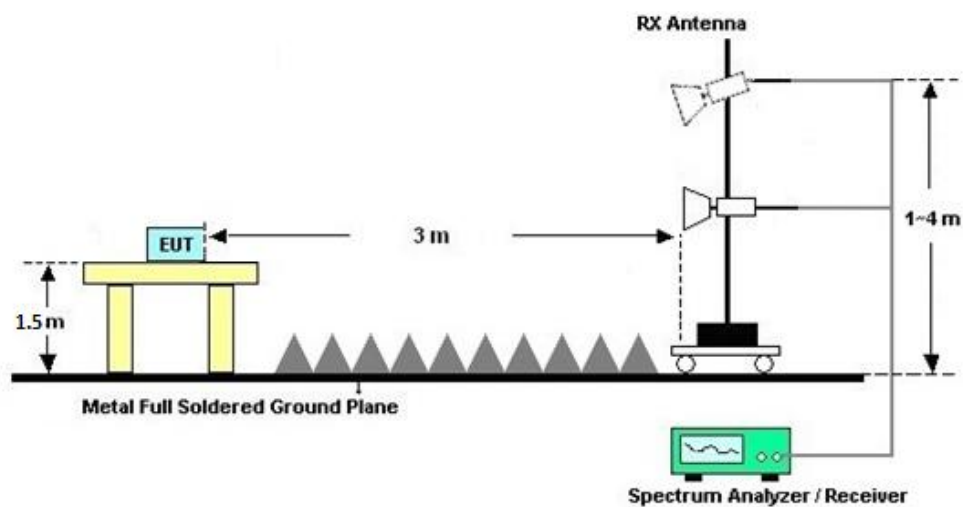
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.4.5 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.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 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 (dB μ V)	
	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.

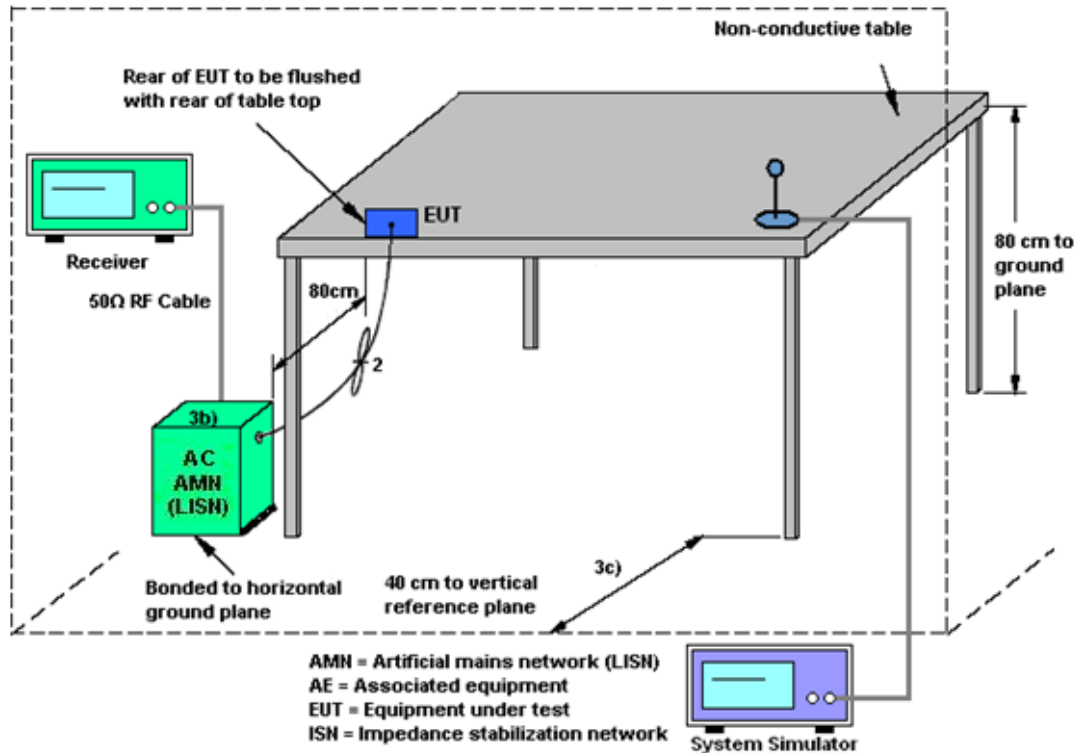
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

1. 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.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 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
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Apr. 20, 2024~ Jun. 18, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Apr. 20, 2024~ Jun. 18, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Apr. 20, 2024~ Jun. 18, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400023	3Hz~8.5GHz; Max 30dBm	Jan. 04, 2024	May 09, 2024~ Jun. 19, 2024	Jan. 03, 2025	Radiation (03CH08-KS)
Spectrum Analyzer	R&S	FSV40	101932	10kHz~40GHz; Max 30dBm	Oct. 10, 2023	May 09, 2024~ Jun. 19, 2024	Oct. 09, 2024	Radiation (03CH08-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Oct. 10, 2023	May 09, 2024~ Jun. 19, 2024	Oct. 09, 2024	Radiation (03CH08-KS)
Bilog Antenna	TESEQ& VGT	CBL 61110	59915	30MHz~1GHz	Aug. 12, 2023	May 09, 2024~ Jun. 19, 2024	Aug. 11, 2024	Radiation (03CH08-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Mar. 01, 2024	May 09, 2024~ Jun. 19, 2024	Feb. 28, 2025	Radiation (03CH08-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2024	May 09, 2024~ Jun. 19, 2024	Jan. 04, 2025	Radiation (03CH08-KS)
Amplifier	SONOMA	310N	413741	9KHz~1GHz	Jan. 05, 2024	May 09, 2024~ Jun. 19, 2024	Jan. 04, 2025	Radiation (03CH08-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz~18Ghz	Oct. 10, 2023	May 09, 2024~ Jun. 19, 2024	Oct. 09, 2024	Radiation (03CH08-KS)
high gain Amplifier	EM	EM01G18GA	060845	1Ghz~18Ghz	Jan. 05, 2024	May 09, 2024~ Jun. 19, 2024	Jan. 04, 2025	Radiation (03CH08-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 04, 2024	May 09, 2024~ Jun. 19, 2024	Jan. 03, 2025	Radiation (03CH08-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	May 09, 2024~ Jun. 19, 2024	NCR	Radiation (03CH08-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	May 09, 2024~ Jun. 19, 2024	NCR	Radiation (03CH08-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	May 09, 2024~ Jun. 19, 2024	NCR	Radiation (03CH08-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Jun. 02, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jun. 02, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Jun. 02, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jun. 02, 2024	Oct. 10, 2024	Conduction (CO01-KS)

NCR: No Calibration Required



5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. 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 Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Conducted Power Spectral Density	±0.88 dB
Frequency	±0.4 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84dB
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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))	6.04dB
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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))	5.26dB
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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))	5.40dB
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----- THE END -----



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jacob Zhang	Temperature:	21~25	°C
Test Date:	2024/4/20~2024/6/18	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth EIRP Limit (dBm)		Note
11a	6Mbps	1	36	5180	16.733	21.928	22.236		
11a	6Mbps	1	44	5220	16.733	22.727	22.236		
11a	6Mbps	1	48	5240	16.783	22.677	22.249		
HT20	MCS0	1	36	5180	17.932	22.577	22.536		
HT20	MCS0	1	44	5220	17.932	23.826	22.536		
HT20	MCS0	1	48	5240	17.932	23.776	22.536		
HT40	MCS0	1	38	5190	36.563	41.359	23.010		
HT40	MCS0	1	46	5230	36.463	41.179	23.010		
VHT80	MCS0	1	42	5210	75.644	83.760	23.010		

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)		Pass/Fail
11a	6Mbps	1	36	5180	0.08	16.73	24.00	1.60		Pass
11a	6Mbps	1	44	5220	0.08	16.71	24.00	1.60		Pass
11a	6Mbps	1	48	5240	0.08	16.41	24.00	1.60		Pass
HT20	MCS0	1	36	5180	0.05	16.71	24.00	1.60		Pass
HT20	MCS0	1	44	5220	0.05	16.59	24.00	1.60		Pass
HT20	MCS0	1	48	5240	0.05	16.42	24.00	1.60		Pass
HT40	MCS0	1	38	5190	0.17	15.88	24.00	1.60		Pass
HT40	MCS0	1	46	5230	0.17	16.53	24.00	1.60		Pass
VHT20	MCS0	1	36	5180	0.08	15.69	24.00	1.60		Pass
VHT20	MCS0	1	44	5220	0.08	15.82	24.00	1.60		Pass
VHT20	MCS0	1	48	5240	0.08	15.45	24.00	1.60		Pass
VHT40	MCS0	1	38	5190	0.17	15.84	24.00	1.60		Pass
VHT40	MCS0	1	46	5230	0.17	15.75	24.00	1.60		Pass
VHT80	MCS0	1	42	5210	0.36	13.63	24.00	1.60		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density with Duty Factor	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
11a	6Mbps	1	36	5180	0.08	4.16	11.00	1.60		Pass
11a	6Mbps	1	44	5220	0.08	4.35	11.00	1.60		Pass
11a	6Mbps	1	48	5240	0.08	3.86	11.00	1.60		Pass
HT20	MCS0	1	36	5180	0.05	4.05	11.00	1.60		Pass
HT20	MCS0	1	44	5220	0.05	4.02	11.00	1.60		Pass
HT20	MCS0	1	48	5240	0.05	3.69	11.00	1.60		Pass
HT40	MCS0	1	38	5190	0.17	0.97	11.00	1.60		Pass
HT40	MCS0	1	46	5230	0.17	1.26	11.00	1.60		Pass
VHT80	MCS0	1	42	5210	0.36	-4.14	11.00	1.60		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A single antenna										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)	26 dB Bandwidth (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)	Note
11a	6Mbps	1	52	5260	16.783	22.827	23.25	29.25	23.98	
11a	6Mbps	1	60	5300	16.733	22.128	23.24	29.24	23.98	
11a	6Mbps	1	64	5320	16.783	23.027	23.25	29.25	23.98	
HT20	MCS0	1	52	5260	17.882	23.776	23.52	29.52	23.98	
HT20	MCS0	1	60	5300	17.882	23.676	23.52	29.52	23.98	
HT20	MCS0	1	64	5320	17.882	23.676	23.52	29.52	23.98	
HT40	MCS0	1	54	5270	36.463	41.359	23.98	30.00	23.98	
HT40	MCS0	1	62	5310	36.563	41.449	23.98	30.00	23.98	
VHT80	MCS0	1	58	5290	75.524	82.960	23.98	30.00	23.98	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna											Power Setting
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	
11a	6Mbps	1	52	5260	0.08	16.43	23.98	1.60	30	Pass	17
11a	6Mbps	1	60	5300	0.08	16.20	23.98	1.60	30	Pass	17
11a	6Mbps	1	64	5320	0.08	16.31	23.98	1.60	30	Pass	17
HT20	MCS0	1	52	5260	0.05	16.24	23.98	1.60	30	Pass	17
HT20	MCS0	1	60	5300	0.05	16.19	23.98	1.60	30	Pass	17
HT20	MCS0	1	64	5320	0.05	16.28	23.98	1.60	30	Pass	17
HT40	MCS0	1	54	5270	0.17	16.08	23.98	1.60	30	Pass	16
HT40	MCS0	1	62	5310	0.17	16.05	23.98	1.60	30	Pass	16
VHT20	MCS0	1	52	5260	0.08	15.35	23.98	1.60	30	Pass	16
VHT20	MCS0	1	60	5300	0.08	15.30	23.98	1.60	30	Pass	16
VHT20	MCS0	1	64	5320	0.08	15.62	23.98	1.60	30	Pass	16
VHT40	MCS0	1	54	5270	0.17	15.56	23.98	1.60	30	Pass	15
VHT40	MCS0	1	62	5310	0.17	15.38	23.98	1.60	30	Pass	15
VHT80	MCS0	1	58	5290	0.36	12.05	23.98	1.60	30	Pass	11.5

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
11a	6Mbps	1	52	5260	0.08	3.90	11.00	1.60		Pass
11a	6Mbps	1	60	5300	0.08	3.83	11.00	1.60		Pass
11a	6Mbps	1	64	5320	0.08	3.72	11.00	1.60		Pass
HT20	MCS0	1	52	5260	0.05	3.63	11.00	1.60		Pass
HT20	MCS0	1	60	5300	0.05	3.51	11.00	1.60		Pass
HT20	MCS0	1	64	5320	0.05	3.52	11.00	1.60		Pass
HT40	MCS0	1	54	5270	0.17	0.86	11.00	1.60		Pass
HT40	MCS0	1	62	5310	0.17	0.55	11.00	1.60		Pass
VHT80	MCS0	1	58	5290	0.36	-5.92	11.00	1.60		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)	26 dB Bandwidth In U-NII 2C (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)
11a	6Mbps	1	100	5500	16.733	22.977	23.24	29.24	23.98
11a	6Mbps	1	116	5580	16.733	22.627	23.24	29.24	23.98
11a	6Mbps	1	140	5700	16.733	22.877	23.24	29.24	23.98
HT20	MCS0	1	100	5500	17.932	23.626	23.54	29.54	23.98
HT20	MCS0	1	116	5580	17.882	23.776	23.52	29.52	23.98
HT20	MCS0	1	140	5700	17.882	22.827	23.52	29.52	23.98
HT40	MCS0	1	102	5510	36.463	41.359	23.98	30.00	23.98
HT40	MCS0	1	110	5550	36.463	40.999	23.98	30.00	23.98
HT40	MCS0	1	134	5670	36.563	41.538	23.98	30.00	23.98
VHT80	MCS0	1	106	5530	75.644	84.560	23.98	30.00	23.98
VHT80	MCS0	1	122	5610	75.644	89.030	23.98	30.00	23.98

U-NII-2C straddle channel single antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)	26 dB Bandwidth In U-NII 2C (MHz)	IC 99% Bandwidth Power Limit (dBm)	IC 99% Bandwidth EIRP Limit (dBm)	FCC 26dB Bandwidth Power Limit (dBm)
11a	6Mbps	1	144	5720	16.783	22.078	23.25	29.25	23.98
HT20	MCS0	1	144	5720	17.882	23.626	23.52	29.52	23.98
HT40	MCS0	1	142	5710	36.663	41.269	23.98	30.00	23.98
VHT80	MCS0	1	138	5690	75.884	86.310	23.98	30.00	23.98

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna											Power Setting
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	
11a	6Mbps	1	100	5500	0.08	16.42	23.98	0.30	30	Pass	17
11a	6Mbps	1	116	5580	0.08	16.01	23.98	0.30	30	Pass	17
11a	6Mbps	1	140	5700	0.08	16.61	23.98	0.30	30	Pass	17
HT20	MCS0	1	100	5500	0.05	16.28	23.98	0.30	30	Pass	17
HT20	MCS0	1	116	5580	0.05	15.89	23.98	0.30	30	Pass	17
HT20	MCS0	1	140	5700	0.05	16.48	23.98	0.30	30	Pass	17
HT40	MCS0	1	102	5510	0.17	16.29	23.98	0.30	30	Pass	16
HT40	MCS0	1	110	5550	0.17	16.03	23.98	0.30	30	Pass	16
HT40	MCS0	1	134	5670	0.17	15.79	23.98	0.30	30	Pass	16
VHT20	MCS0	1	100	5500	0.08	15.40	23.98	0.30	30	Pass	16
VHT20	MCS0	1	116	5580	0.08	14.89	23.98	0.30	30	Pass	16
VHT20	MCS0	1	140	5700	0.08	15.63	23.98	0.30	30	Pass	16
VHT40	MCS0	1	102	5510	0.17	15.23	23.98	0.30	30	Pass	15
VHT40	MCS0	1	110	5550	0.17	15.00	23.98	0.30	30	Pass	15
VHT40	MCS0	1	134	5670	0.17	14.95	23.98	0.30	30	Pass	15
VHT80	MCS0	1	106	5530	0.36	14.30	23.98	0.30	30	Pass	14
VHT80	MCS0	1	122	5610	0.36	13.48	23.98	0.30	30	Pass	14

FCC U-NII-2C straddle channel single antenna											Power Setting
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	FCC Conducted Power Limit (dBm)	DG (dBi)	EIRP Power Limit (dBm)	Pass/Fail	
11a	6Mbps	1	144	5720	0.08	16.51	23.98	0.30	30	Pass	17
HT20	MCS0	1	144	5720	0.05	16.38	23.98	0.30	30	Pass	17
HT40	MCS0	1	142	5710	0.17	16.44	23.98	0.30	30	Pass	16
VHT20	MCS0	1	144	5720	0.08	15.65	23.98	0.30	30	Pass	16
VHT40	MCS0	1	142	5710	0.17	15.39	23.98	0.30	30	Pass	15
VHT80	MCS0	1	138	5690	0.36	14.08	23.98	0.30	30	Pass	14

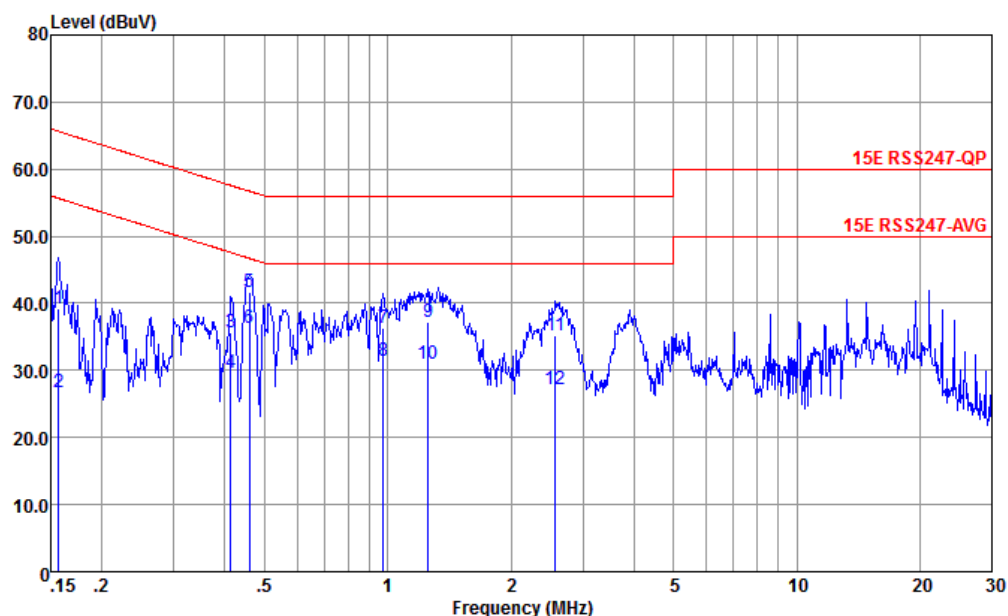
TEST RESULTS DATA
Power Spectral Density

U-NII-2C single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density with Duty Factor (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
11a	6Mbps	1	100	5500	0.08	4.01	11.00	0.30		Pass
11a	6Mbps	1	116	5580	0.08	3.27	11.00	0.30		Pass
11a	6Mbps	1	140	5700	0.08	4.13	11.00	0.30		Pass
HT20	MCS0	1	100	5500	0.05	3.57	11.00	0.30		Pass
HT20	MCS0	1	116	5580	0.05	3.07	11.00	0.30		Pass
HT20	MCS0	1	140	5700	0.05	3.76	11.00	0.30		Pass
HT40	MCS0	1	102	5510	0.17	0.89	11.00	0.30		Pass
HT40	MCS0	1	110	5550	0.17	0.51	11.00	0.30		Pass
HT40	MCS0	1	134	5670	0.17	0.08	11.00	0.30		Pass
VHT80	MCS0	1	106	5530	0.36	-4.02	11.00	0.30		Pass
VHT80	MCS0	1	122	5610	0.36	-4.51	11.00	0.30		Pass

U-NII-2C straddle channel single antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)	DG (dBi)		Pass /Fail
11a	6Mbps	1	144	5720	0.08	3.66	11.00	0.30		Pass
HT20	MCS0	1	144	5720	0.05	3.38	11.00	0.30		Pass
HT40	MCS0	1	142	5710	0.17	0.55	11.00	0.30		Pass
VHT80	MCS0	1	138	5690	0.36	-4.42	11.00	0.30		Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

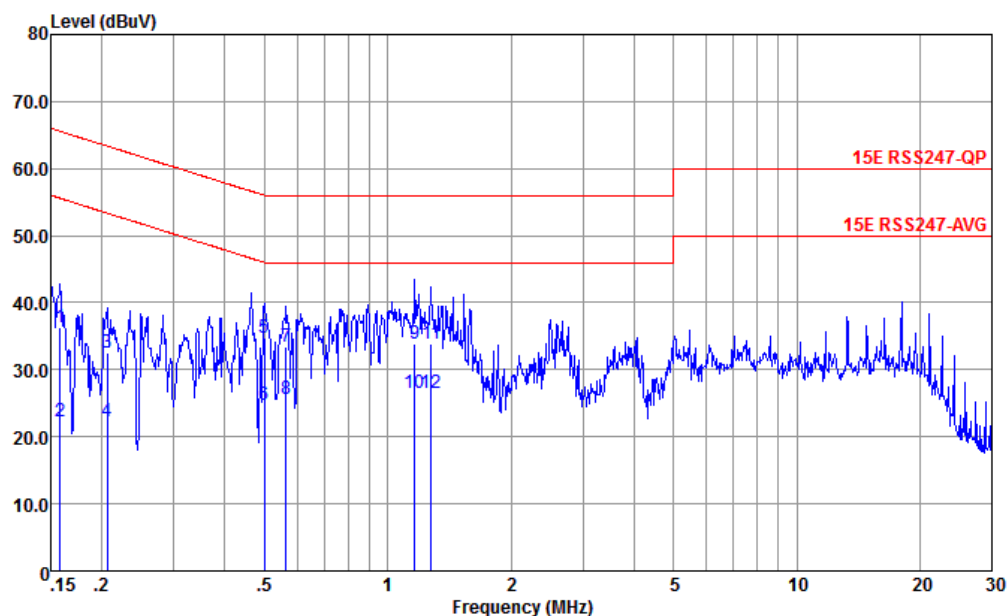


Site : CO01-KS
Condition : 15E RSS247-QP LISN-060105-L 2023 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.156	39.13	-26.52	65.65	28.66	0.05	10.42	QP
2	0.156	26.77	-28.88	55.65	16.30	0.05	10.42	Average
3	0.413	35.57	-22.02	57.59	25.30	0.00	10.27	QP
4	0.413	29.57	-18.02	47.59	19.30	0.00	10.27	Average
5	0.459	41.62	-15.09	56.71	31.40	-0.02	10.24	QP
6 *	0.459	36.42	-10.29	46.71	26.20	-0.02	10.24	Average
7	0.974	36.30	-19.70	56.00	26.31	-0.10	10.09	QP
8	0.974	31.50	-14.50	46.00	21.51	-0.10	10.09	Average
9	1.255	37.17	-18.83	56.00	27.19	-0.11	10.09	QP
10	1.255	31.07	-14.93	46.00	21.09	-0.11	10.09	Average
11	2.567	35.27	-20.73	56.00	25.30	-0.10	10.07	QP
12	2.567	27.27	-18.73	46.00	17.30	-0.10	10.07	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
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 : 15E RSS247-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.158	36.36	-29.20	65.56	25.90	0.04	10.42	QP
2	0.158	22.36	-33.20	55.56	11.90	0.04	10.42	Average
3	0.206	32.55	-30.81	63.36	22.11	0.04	10.40	QP
4	0.206	22.35	-31.01	53.36	11.91	0.04	10.40	Average
5	0.499	34.75	-21.26	56.01	24.60	-0.07	10.22	QP
6	0.499	24.75	-21.26	46.01	14.60	-0.07	10.22	Average
7	0.564	33.42	-22.58	56.00	23.30	-0.07	10.19	QP
8	0.564	25.72	-20.28	46.00	15.60	-0.07	10.19	Average
9	1.166	33.78	-22.22	56.00	23.79	-0.10	10.09	QP
10 *	1.166	26.58	-19.42	46.00	16.59	-0.10	10.09	Average
11	1.276	33.88	-22.12	56.00	23.90	-0.11	10.09	QP
12	1.276	26.58	-19.42	46.00	16.60	-0.11	10.09	Average

Note:

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



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Koi Ji	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	U-NII-1	5.15-5.25	802.11a	36	5180	6Mbps	-
Mode 2	U-NII-1	5.15-5.25	802.11a	44	5220	6Mbps	-
Mode 3	U-NII-1	5.15-5.25	802.11a	48	5240	6Mbps	-
Mode 4	U-NII-2A	5.25-5.35	802.11a	52	5260	6Mbps	-
Mode 5	U-NII-2A	5.25-5.35	802.11a	60	5300	6Mbps	-
Mode 6	U-NII-2A	5.25-5.35	802.11a	64	5320	6Mbps	-
Mode 7	U-NII-2C	5.47-5.725	802.11a	100	5500	6Mbps	-
Mode 8	U-NII-2C	5.47-5.725	802.11a	116	5580	6Mbps	-
Mode 9	U-NII-2C	5.47-5.725	802.11a	140	5700	6Mbps	-
Mode 10	U-NII-1	5.15-5.25	802.11n HT20	36	5180	MCS0	-
Mode 11	U-NII-1	5.15-5.25	802.11n HT20	44	5220	MCS0	-
Mode 12	U-NII-1	5.15-5.25	802.11n HT20	48	5240	MCS0	-
Mode 13	U-NII-2A	5.25-5.35	802.11n HT20	52	5260	MCS0	-
Mode 14	U-NII-2A	5.25-5.35	802.11n HT20	60	5300	MCS0	-
Mode 15	U-NII-2A	5.25-5.35	802.11n HT20	64	5320	MCS0	-
Mode 16	U-NII-2C	5.47-5.725	802.11n HT20	100	5500	MCS0	-
Mode 17	U-NII-2C	5.47-5.725	802.11n HT20	116	5580	MCS0	-
Mode 18	U-NII-2C	5.47-5.725	802.11n HT20	140	5700	MCS0	-
Mode 19	U-NII-1	5.15-5.25	802.11n HT40	38	5190	MCS0	-
Mode 20	U-NII-1	5.15-5.25	802.11n HT40	46	5230	MCS0	-
Mode 21	U-NII-2A	5.25-5.35	802.11n HT40	54	5270	MCS0	-
Mode 22	U-NII-2A	5.25-5.35	802.11n HT40	62	5310	MCS0	-
Mode 23	U-NII-2C	5.47-5.725	802.11n HT40	102	5510	MCS0	-
Mode 24	U-NII-2C	5.47-5.725	802.11n HT40	110	5550	MCS0	-
Mode 25	U-NII-2C	5.47-5.725	802.11n HT40	134	5670	MCS0	-
Mode 26	U-NII-1	5.15-5.25	802.11ac VHT80	42	5210	MCS0	-
Mode 27	U-NII-2A	5.25-5.35	802.11ac VHT80	58	5290	MCS0	-
Mode 28	U-NII-2C	5.47-5.725	802.11ac VHT80	106	5530	MCS0	-
Mode 29	U-NII-2C	5.47-5.725	802.11ac VHT80	122	5610	MCS0	-
Mode 30	U-NII-2C	5.47-5.85	802.11a	144	5720	6Mbps	-
Mode 31	U-NII-2C	5.47-5.85	802.11n HT20	144	5720	MCS0	-
Mode 32	U-NII-2C	5.47-5.85	802.11n HT40	142	5710	MCS0	-
Mode 33	U-NII-2C	5.47-5.85	802.11ac VHT80	138	5690	MCS0	-
Mode 34	U-NII-2A	5.25-5.35	802.11ac VHT80	58	5290	MCS0	-
LTE Band 13 Link							



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	36	5150.00	46.59	54.00	-7.41	V	AVERAGE	Pass	Band Edge
1	802.11a	36	15540.00	42.30	54.00	-11.70	H	AVERAGE	Pass	Harmonic
2	802.11a	44	-	-	-	-	-	-	-	Band Edge
2	802.11a	44	10440.00	44.41	68.20	-23.79	H	PEAK	Pass	Harmonic
3	802.11a	48	-	-	-	-	-	-	-	Band Edge
3	802.11a	48	15720.00	37.85	54.00	-16.15	H	AVERAGE	Pass	Harmonic
4	802.11a	52	-	-	-	-	-	-	-	Band Edge
4	802.11a	52	10520.00	45.38	68.20	-22.82	V	PEAK	Pass	Harmonic
5	802.11a	60	-	-	-	-	-	-	-	Band Edge
5	802.11a	60	10600.00	45.06	74.00	-28.94	H	PEAK	Pass	Harmonic
6	802.11a	64	5350.00	46.20	54.00	-7.80	V	AVERAGE	Pass	Band Edge
6	802.11a	64	10640.00	44.88	74.00	-29.12	H	PEAK	Pass	Harmonic
7	802.11a	100	5459.20	45.69	54.00	-8.31	V	AVERAGE	Pass	Band Edge
7	802.11a	100	11000.00	45.57	74.00	-28.43	V	PEAK	Pass	Harmonic
8	802.11a	116	-	-	-	-	-	-	-	Band Edge
8	802.11a	116	11160.00	45.69	74.00	-28.31	V	PEAK	Pass	Harmonic
9	802.11a	140	5745.44	57.33	68.20	-10.87	H	PEAK	Pass	Band Edge
9	802.11a	140	11400.00	45.56	74.00	-28.44	H	PEAK	Pass	Harmonic
10	802.11n HT20	36	5148.54	46.88	54.00	-7.12	V	AVERAGE	Pass	Band Edge
10	802.11n HT20	36	15540.00	40.94	54.00	-13.06	H	AVERAGE	Pass	Harmonic
11	802.11n HT20	44	-	-	-	-	-	-	-	Band Edge
11	802.11n HT20	44	10440.00	45.29	68.20	-22.91	V	PEAK	Pass	Harmonic
12	802.11n HT20	48	-	-	-	-	-	-	-	Band Edge
12	802.11n HT20	48	10480.00	45.94	68.20	-22.26	V	PEAK	Pass	Harmonic
13	802.11n HT20	52	-	-	-	-	-	-	-	Band Edge
13	802.11n HT20	52	10520.00	45.34	68.20	-22.86	V	PEAK	Pass	Harmonic
14	802.11n HT20	60	-	-	-	-	-	-	-	Band Edge
14	802.11n HT20	60	10600.00	44.90	74.00	-29.10	H	PEAK	Pass	Harmonic
15	802.11n HT20	64	5350.00	47.21	54.00	-6.79	V	AVERAGE	Pass	Band Edge
15	802.11n HT20	64	10640.00	45.48	74.00	-28.52	H	PEAK	Pass	Harmonic
16	802.11n HT20	100	5450.65	46.23	54.00	-7.77	V	AVERAGE	Pass	Band Edge
16	802.11n HT20	100	11000.00	44.38	74.00	-29.62	V	PEAK	Pass	Harmonic
17	802.11n HT20	116	-	-	-	-	-	-	-	Band Edge
17	802.11n HT20	116	11160.00	45.88	74.00	-28.12	H	PEAK	Pass	Harmonic
18	802.11n HT20	140	5726.34	57.27	68.20	-10.93	V	PEAK	Pass	Band Edge
18	802.11n HT20	140	11400.00	45.76	74.00	-28.24	V	PEAK	Pass	Harmonic
19	802.11n HT40	38	5149.16	50.80	54.00	-3.20	V	AVERAGE	Pass	Band Edge
19	802.11n HT40	38	15570.00	41.38	54.00	-12.62	V	AVERAGE	Pass	Harmonic
20	802.11n HT40	46	5102.01	45.83	54.00	-8.17	V	AVERAGE	Pass	Band Edge
20	802.11n HT40	46	15690.00	36.42	54.00	-17.58	V	AVERAGE	Pass	Harmonic

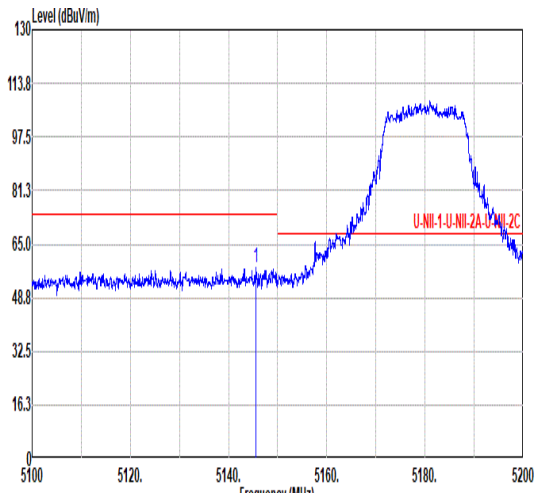
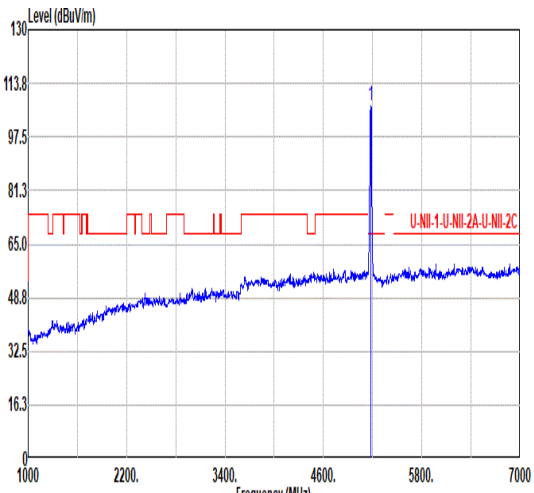
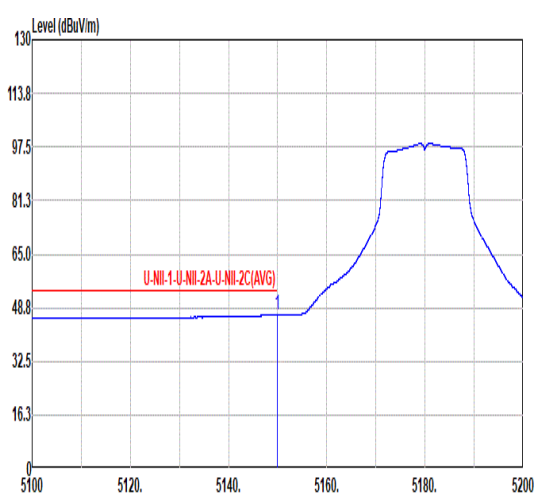
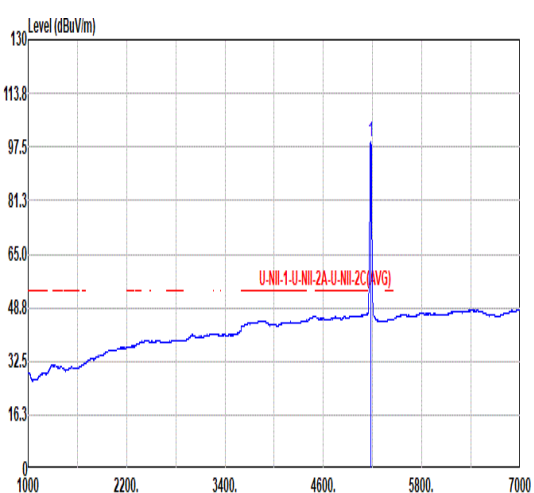


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
21	802.11n HT40	54	5079.31	46.79	54.00	-7.21	V	AVERAGE	Pass	Band Edge
21	802.11n HT40	54	10540.00	45.61	68.20	-22.59	H	PEAK	Pass	Harmonic
22	802.11n HT40	62	5106.59	46.62	54.00	-7.38	H	AVERAGE	Pass	Band Edge
22	802.11n HT40	62	10620.00	45.56	74.00	-28.44	H	PEAK	Pass	Harmonic
23	802.11n HT40	102	5459.72	47.76	54.00	-6.24	V	AVERAGE	Pass	Band Edge
23	802.11n HT40	102	11020.00	44.51	74.00	-29.49	V	PEAK	Pass	Harmonic
24	802.11n HT40	110	5458.67	46.13	54.00	-7.87	H	AVERAGE	Pass	Band Edge
24	802.11n HT40	110	11100.00	45.74	74.00	-28.26	V	PEAK	Pass	Harmonic
25	802.11n HT40	134	5459.08	46.31	54.00	-7.69	V	AVERAGE	Pass	Band Edge
25	802.11n HT40	134	11340.00	45.31	74.00	-28.69	V	PEAK	Pass	Harmonic
26	802.11ac VHT80	42	5134.81	50.29	54.00	-3.71	V	AVERAGE	Pass	Band Edge
26	802.11ac VHT80	42	10420.00	44.91	68.20	-23.29	H	PEAK	Pass	Harmonic
27	802.11ac VHT80	58	5354.49	50.91	54.00	-3.09	V	AVERAGE	Pass	Band Edge
27	802.11ac VHT80	58	10580.00	44.48	74.00	-29.52	H	PEAK	Pass	Harmonic
28	802.11ac VHT80	106	5454.86	48.83	54.00	-5.17	V	AVERAGE	Pass	Band Edge
28	802.11ac VHT80	106	11060.00	45.17	74.00	-28.83	V	PEAK	Pass	Harmonic
29	802.11ac VHT80	122	5459.82	45.30	54.00	-8.70	V	AVERAGE	Pass	Band Edge
29	802.11ac VHT80	122	11220.00	45.29	74.00	-28.71	V	PEAK	Pass	Harmonic
30	802.11a	144	-	-	-	-	-	-	-	Band Edge
30	802.11a	144	11440.00	35.69	54.00	-18.31	V	AVERAGE	Pass	Harmonic
31	802.11n HT20	144	-	-	-	-	-	-	-	Band Edge
31	802.11n HT20	144	11440.00	45.36	74.00	-28.64	H	PEAK	Pass	Harmonic
32	802.11n HT40	142	-	-	-	-	-	-	-	Band Edge
32	802.11n HT40	142	11420.00	45.59	74.00	-28.41	H	PEAK	Pass	Harmonic
33	802.11ac VHT80	138	-	-	-	-	-	-	-	Band Edge
33	802.11ac VHT80	138	11380.00	45.22	74.00	-28.78	H	PEAK	Pass	Harmonic
34	802.11ac VHT80	58	5352.55	50.82	54.00	-3.18	V	AVERAGE	Pass	Band Edge
	802.11ac VHT80	58	10580.00	46.14	68.20	-22.06	H	PEAK	Pass	Harmonic



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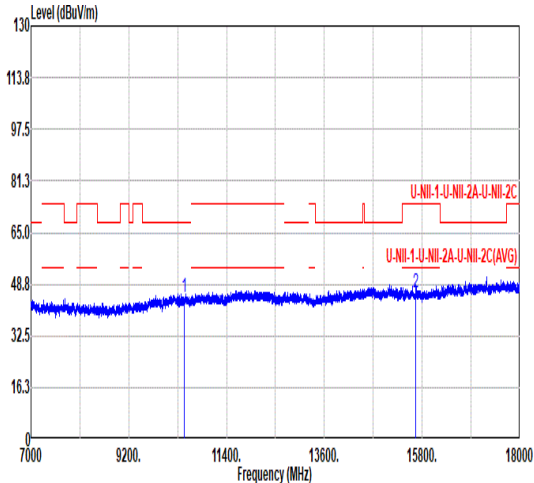
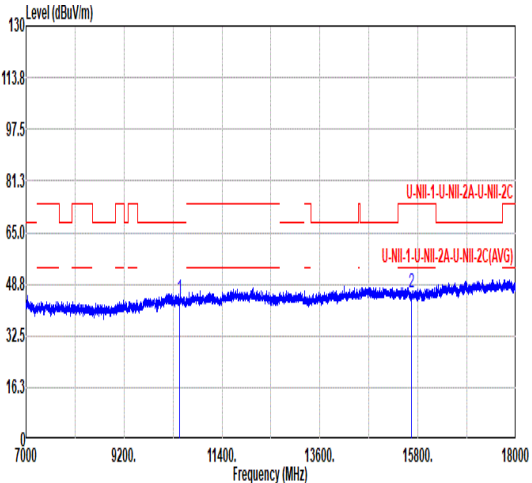


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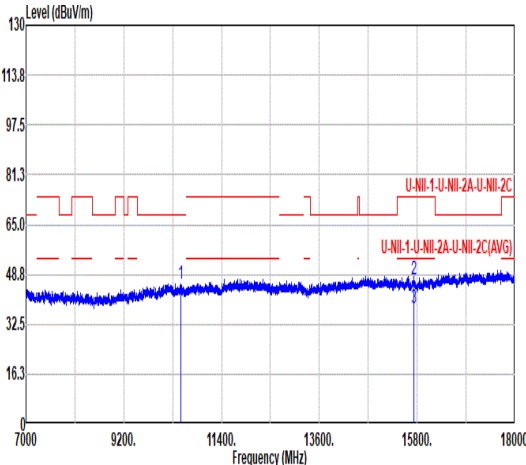
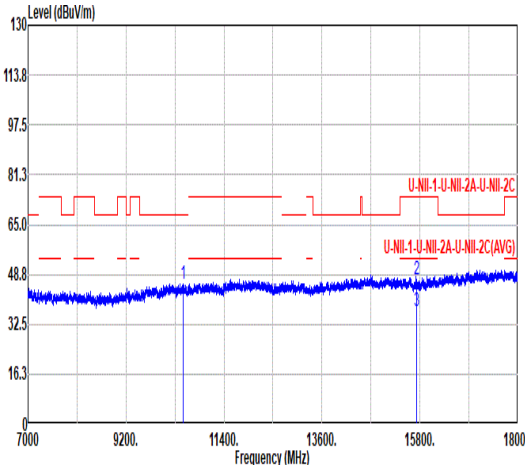


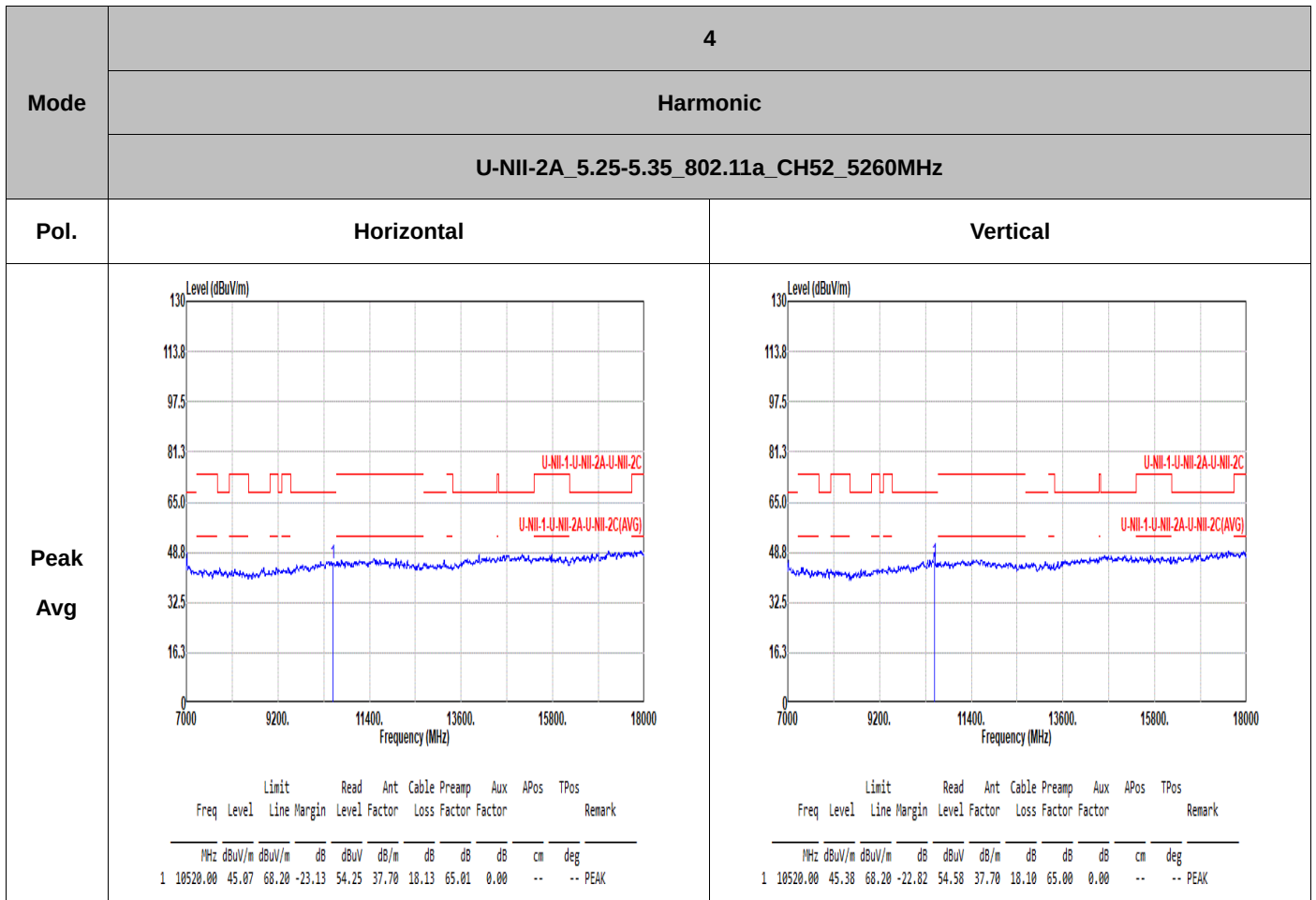
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																	
1	10440.00	44.28	68.20	-23.92	53.62	37.70	18.31	65.35	0.00	--	--	PEAK																																																																
2	15660.00	45.94	74.00	-28.06	47.89	40.36	22.03	64.34	0.00	--	--	PEAK																																																																



Mode	3																																																																																																																									
	Harmonic																																																																																																																									
	U-NII-1_5.15-5.25_802.11a_CH48_5240MHz																																																																																																																									
Pol.	Horizontal	Vertical																																																																																																																								
Peak Avg	<table><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><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></th></tr><tr><td>1</td><td>10480.00</td><td>45.39</td><td>68.20</td><td>-22.81</td><td>54.76</td><td>37.70</td><td>18.24</td><td>65.31</td><td>0.00 -- -- PEAK</td></tr><tr><td>2</td><td>15720.00</td><td>47.33</td><td>74.00</td><td>-26.67</td><td>49.14</td><td>40.42</td><td>22.13</td><td>64.36</td><td>0.00 300 0 PEAK</td></tr><tr><td>3</td><td>15720.00</td><td>37.85</td><td>54.00</td><td>-16.15</td><td>39.67</td><td>40.42</td><td>22.12</td><td>64.36</td><td>0.00 300 0 AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB		1	10480.00	45.39	68.20	-22.81	54.76	37.70	18.24	65.31	0.00 -- -- PEAK	2	15720.00	47.33	74.00	-26.67	49.14	40.42	22.13	64.36	0.00 300 0 PEAK	3	15720.00	37.85	54.00	-16.15	39.67	40.42	22.12	64.36	0.00 300 0 AVERAGE	<table><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><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></th></tr><tr><td>1</td><td>10480.00</td><td>45.57</td><td>68.20</td><td>-22.63</td><td>54.94</td><td>37.70</td><td>18.24</td><td>65.31</td><td>0.00 -- -- PEAK</td></tr><tr><td>2</td><td>15720.00</td><td>47.17</td><td>74.00</td><td>-26.83</td><td>48.98</td><td>40.42</td><td>22.13</td><td>64.36</td><td>0.00 100 0 PEAK</td></tr><tr><td>3</td><td>15720.00</td><td>37.03</td><td>54.00</td><td>-16.97</td><td>38.87</td><td>40.41</td><td>22.11</td><td>64.36</td><td>0.00 100 0 AVERAGE</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB		1	10480.00	45.57	68.20	-22.63	54.94	37.70	18.24	65.31	0.00 -- -- PEAK	2	15720.00	47.17	74.00	-26.83	48.98	40.42	22.13	64.36	0.00 100 0 PEAK	3	15720.00	37.03	54.00	-16.97	38.87	40.41	22.11	64.36	0.00 100 0 AVERAGE
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Mode	5																																																																																																						
	Harmonic																																																																																																						
	U-NII-2A_5.25-5.35_802.11a_CH60_5300MHz																																																																																																						
Pol.	Horizontal						Vertical																																																																																																
Peak Avg																																																																																																							
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		Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																												
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1 10600.00	44.42	74.00	-29.58	53.78	37.71	17.84	64.91	0.00	--	--	PEAK																																																																																												



6

Mode

Band Edge

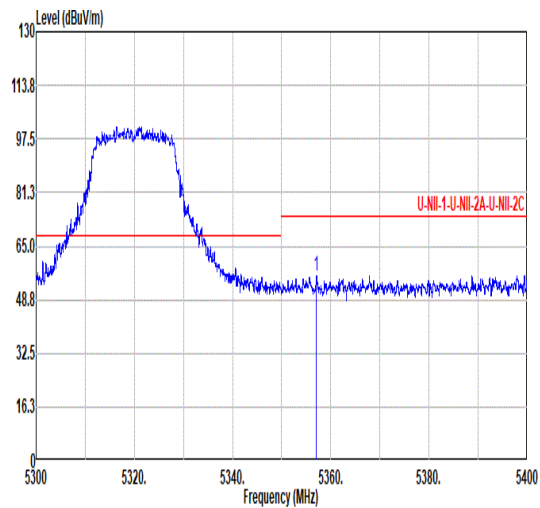
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Pol.

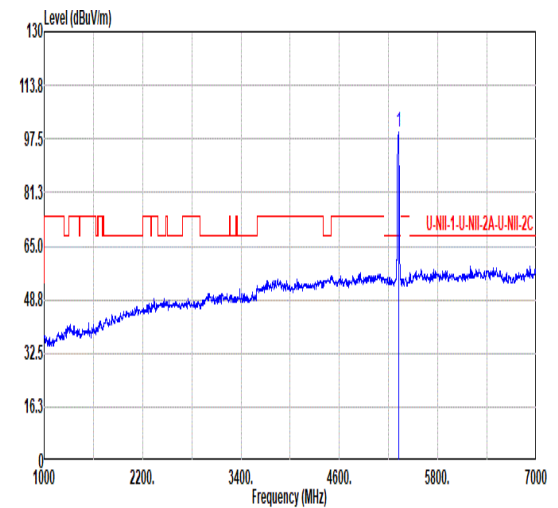
Horizontal

Fundamental

Peak

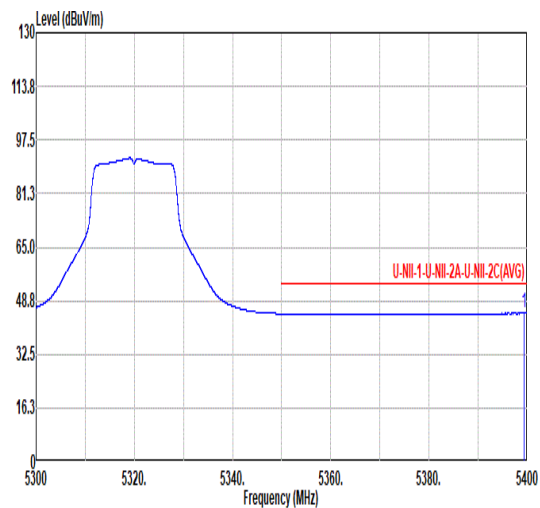


Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
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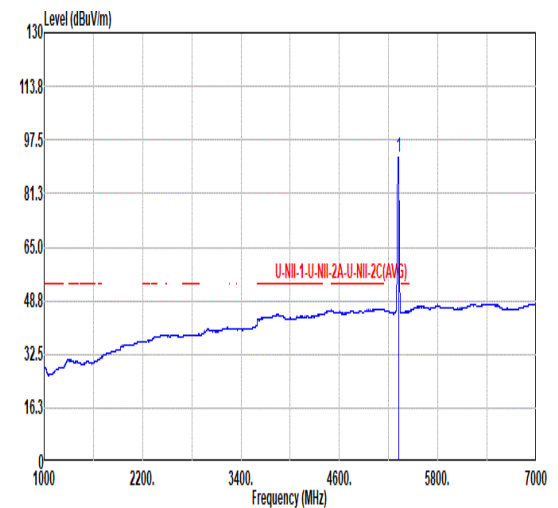


Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 5320.00	99.56	-----	-----	82.26	34.49	12.59	29.78	0.00	100	77	PEAK

Avg



Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 5399.35	44.96	54.00	-9.04	27.01	34.60	13.02	29.67	0.00	100	77	AVERAGE



Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 5320.00	92.19	-----	-----	74.92	34.47	12.59	29.79	0.00	100	77	AVERAGE



6

Mode

Band Edge

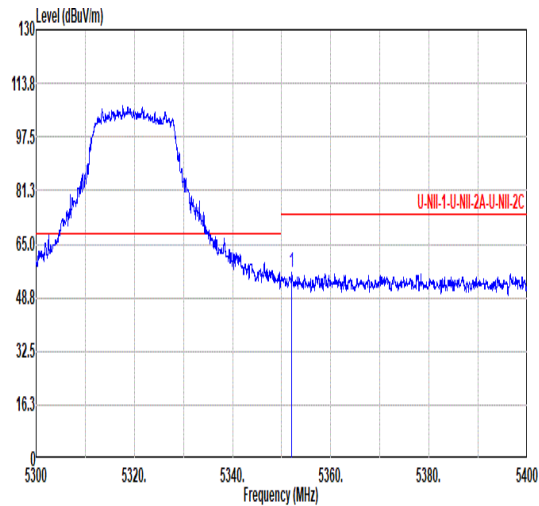
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Pol.

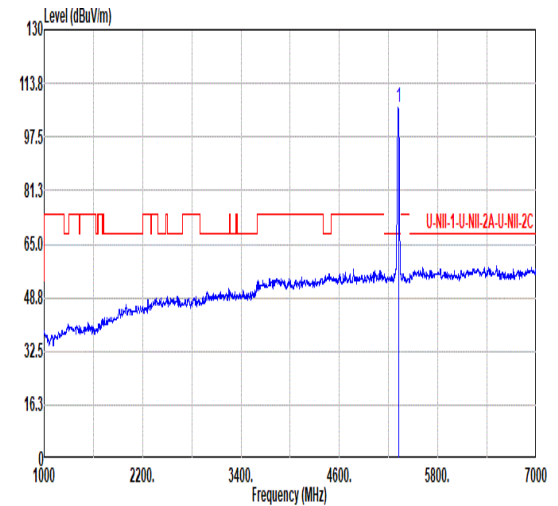
Vertical

Fundamental

Peak

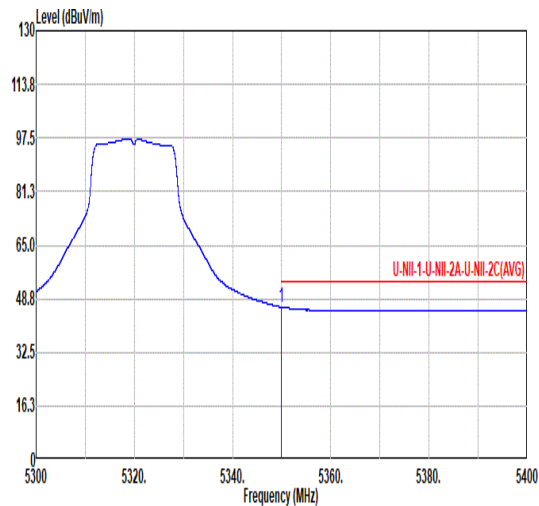


Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 5352.05	56.26	74.00	-17.74	38.82	34.60	12.58	29.74	0.00	140	140	PEAK

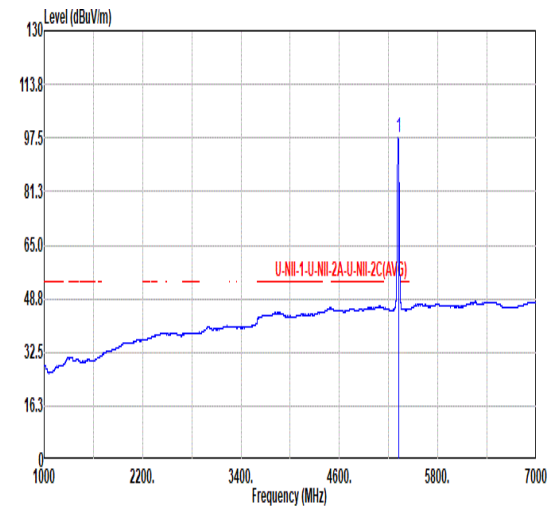


Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
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Avg

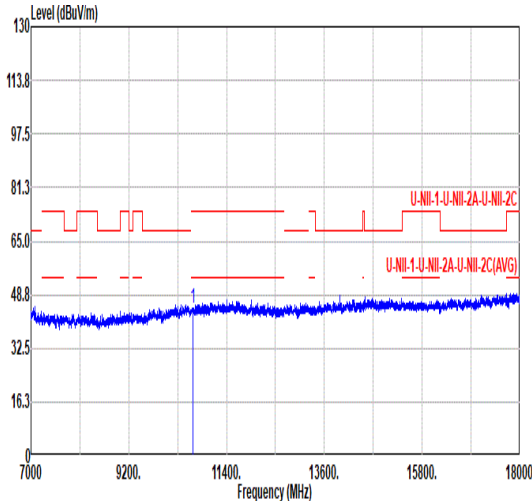
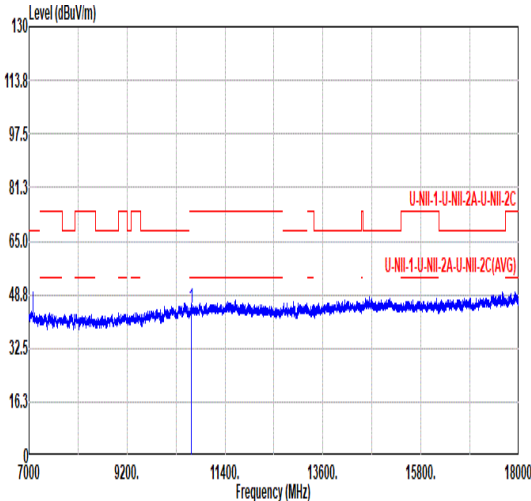


Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 5350.00	46.20	54.00	-7.80	28.78	34.60	12.56	29.74	0.00	140	140	AVERAGE



Freq	Level	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1 5320.00	97.57	-----	-----	80.30	34.47	12.59	29.79	0.00	140	140	AVERAGE



Mode	6																																																																																																								
	Harmonic																																																																																																								
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Pol.	Horizontal						Vertical																																																																																																		
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																	
	MHz	dBUV/m	dBUV/m	dB	dBUV	dB/m	dB	dB	dB	cm	deg																																																																																														
1	10640.00	44.43	74.00	-29.57	53.67	37.74	17.89	64.87	0.00	--	-- PEAK																																																																																														



7

Mode

Band Edge

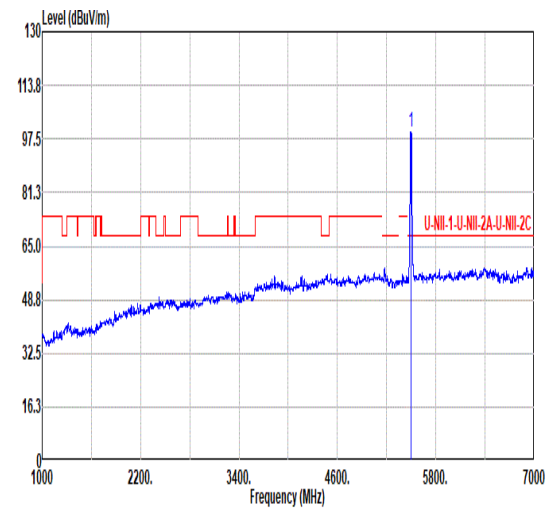
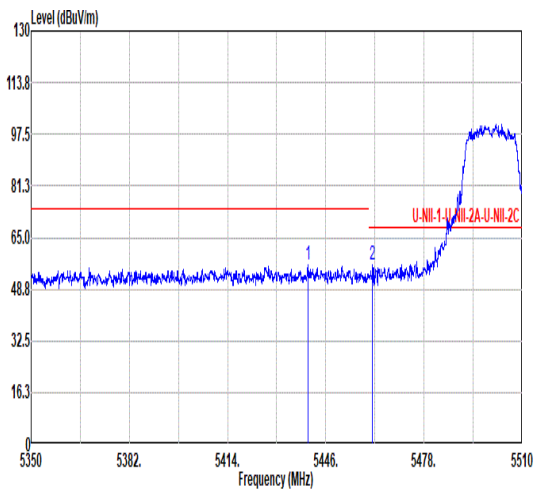
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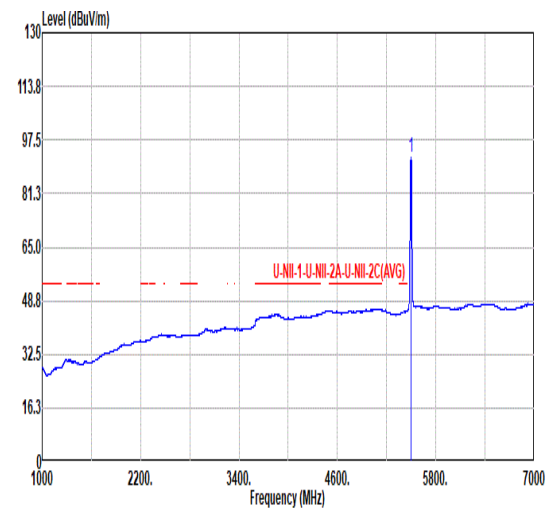
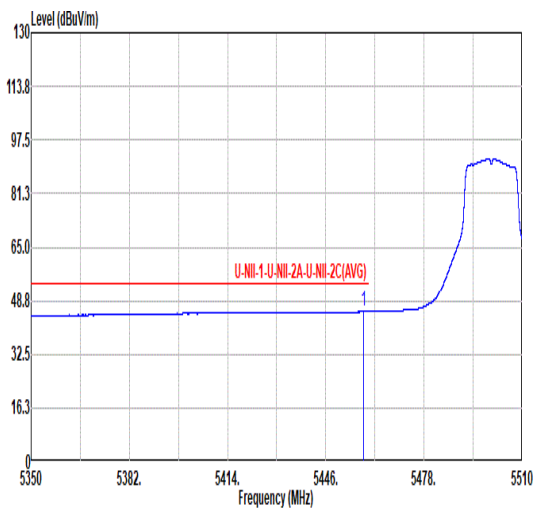
Horizontal

Fundamental

Peak



Avg





7

Mode

Band Edge

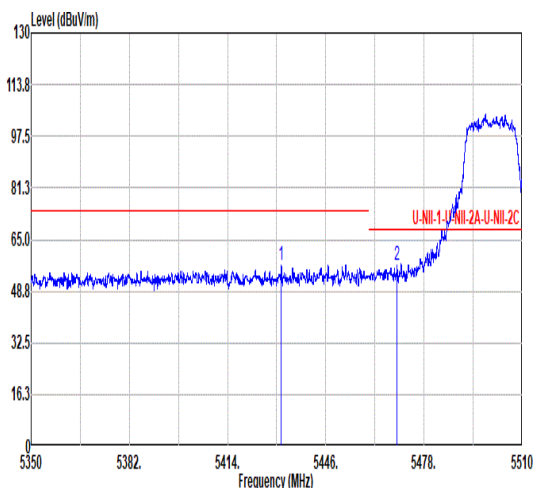
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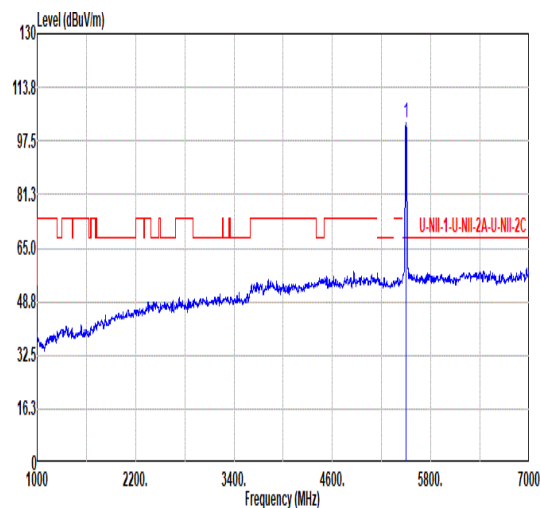
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Fundamental

Peak

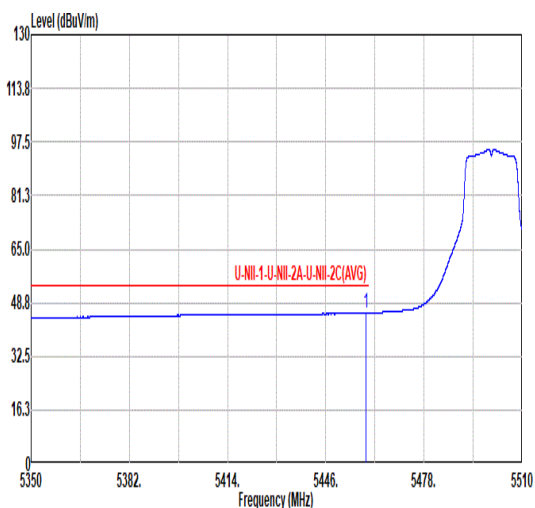


	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm
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2	5469.13	56.68	68.20	-11.52	38.74	34.60	12.90	29.56	0.00

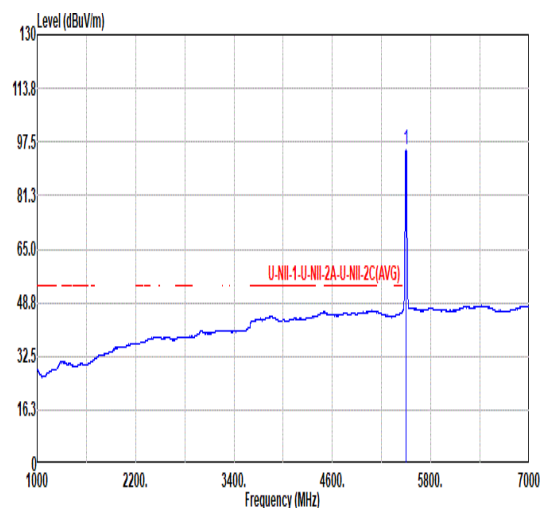


	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm
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Avg

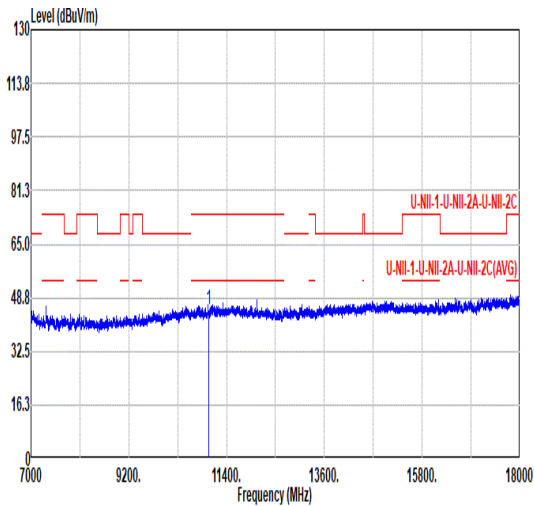
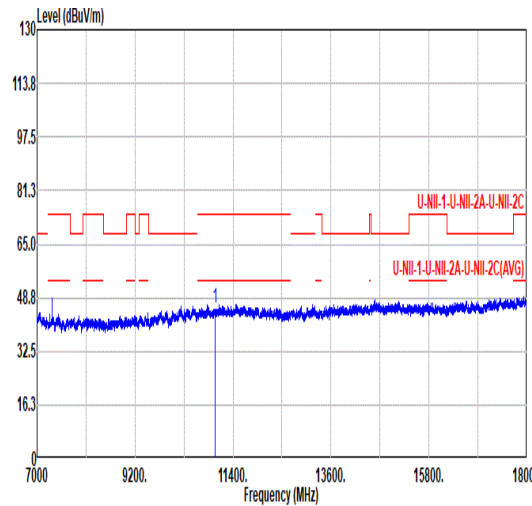


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	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm
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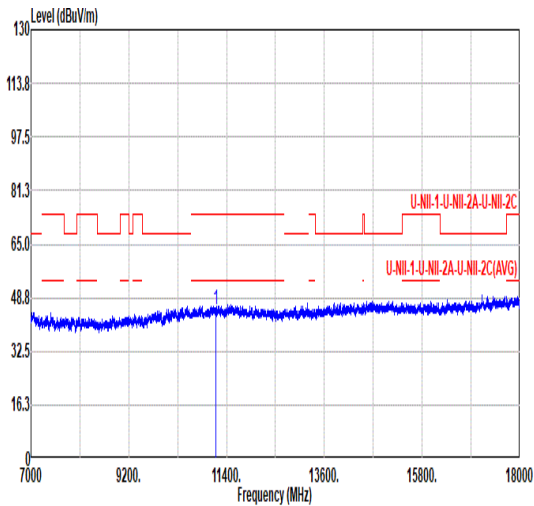
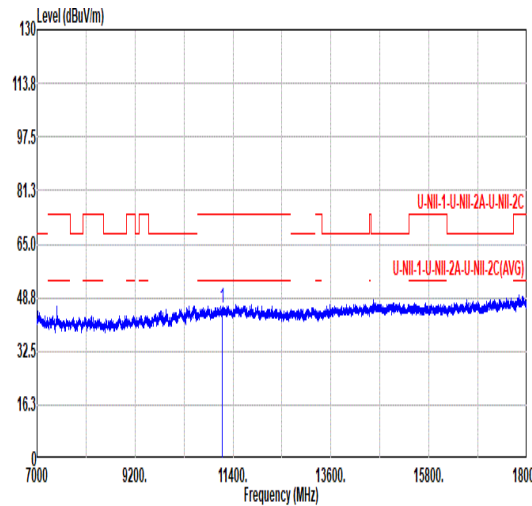


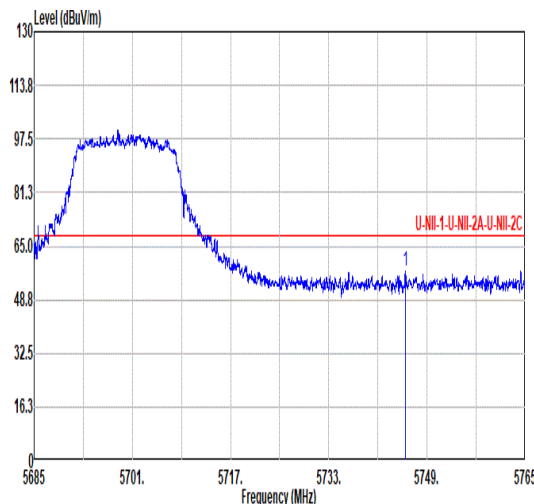
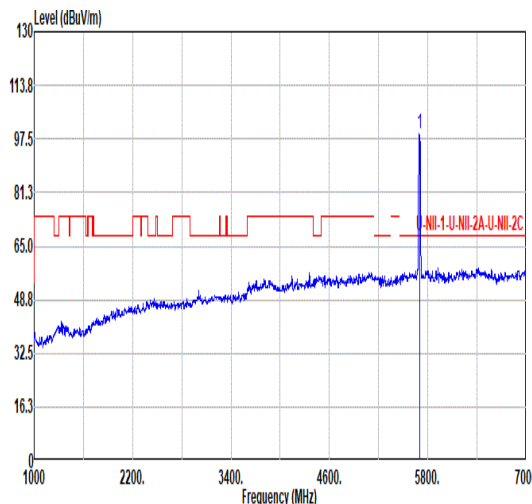
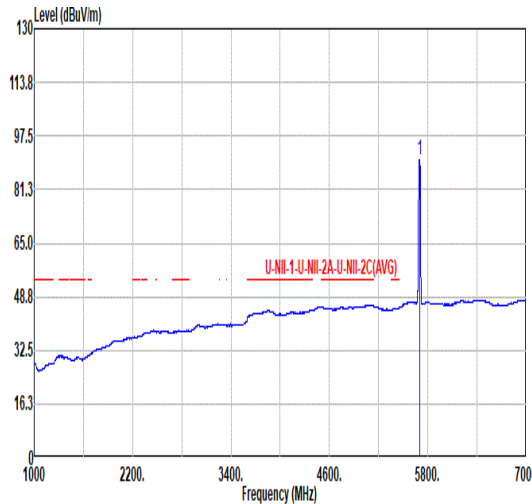
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	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
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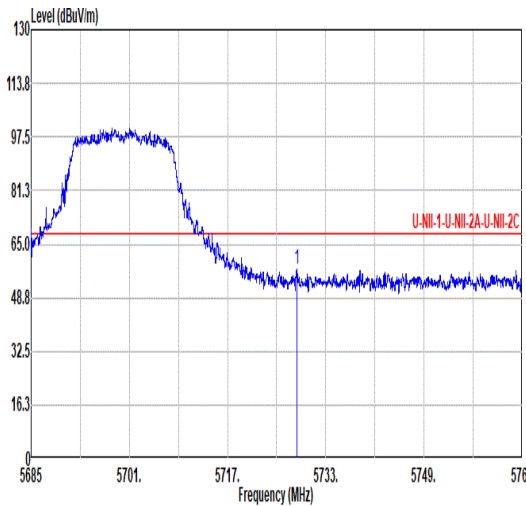
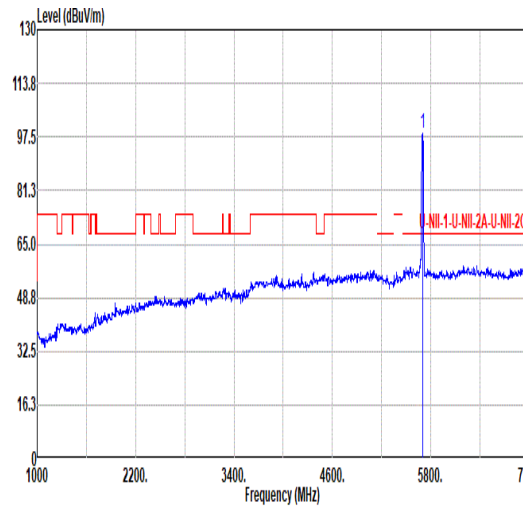
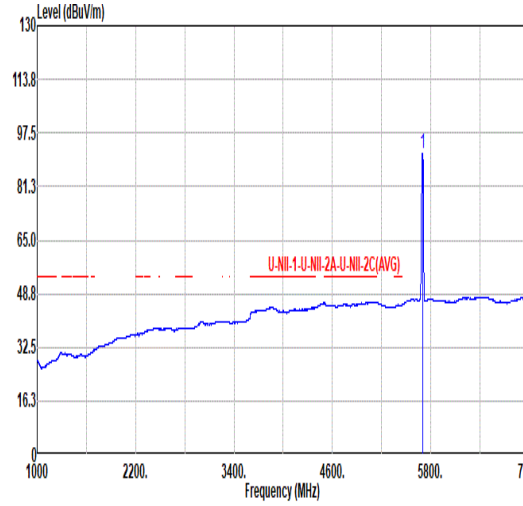
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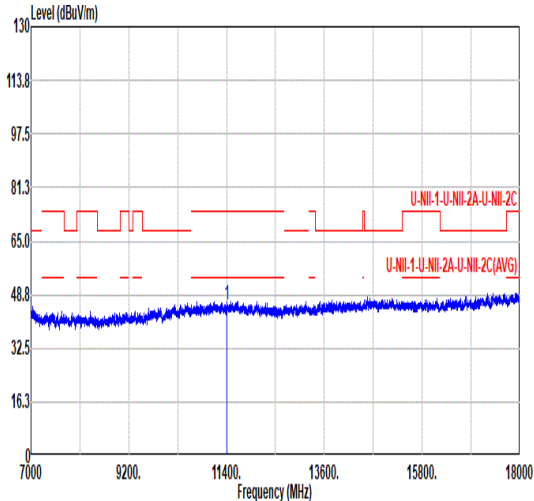
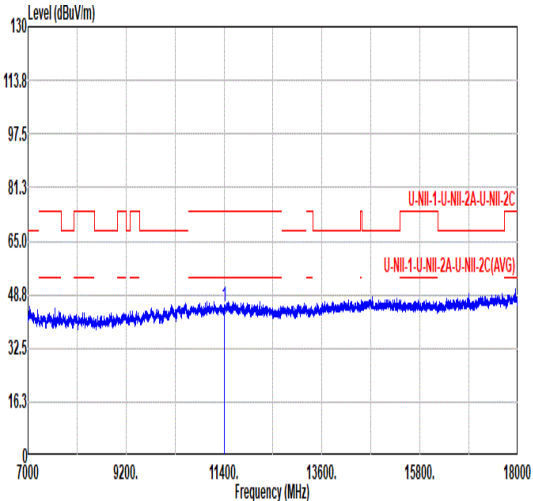
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Pol.	Horizontal						Vertical																																																								
Peak Avg																																																															
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1	11160.00	45.37	74.00	-28.63	53.06	38.36	18.22	64.27	0.00	--	--	PEAK																																																			
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																												
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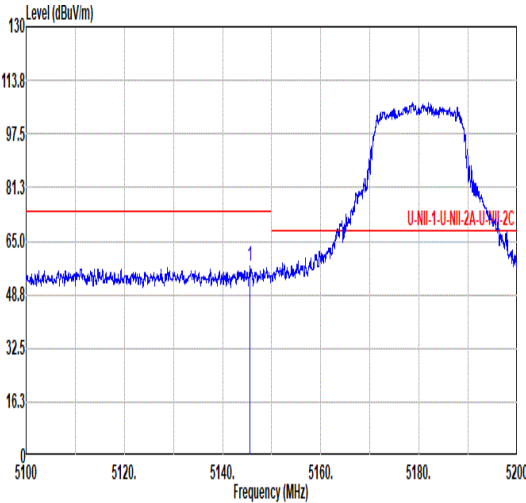
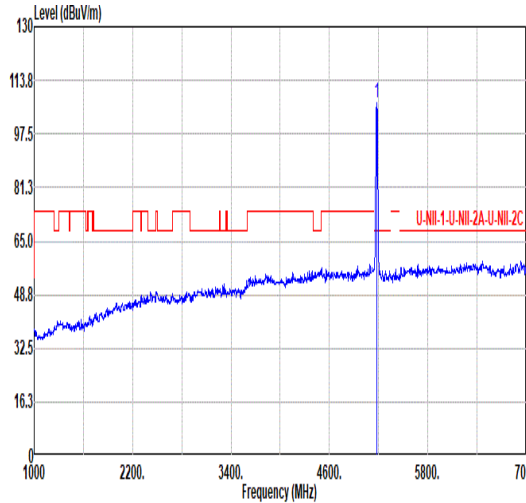
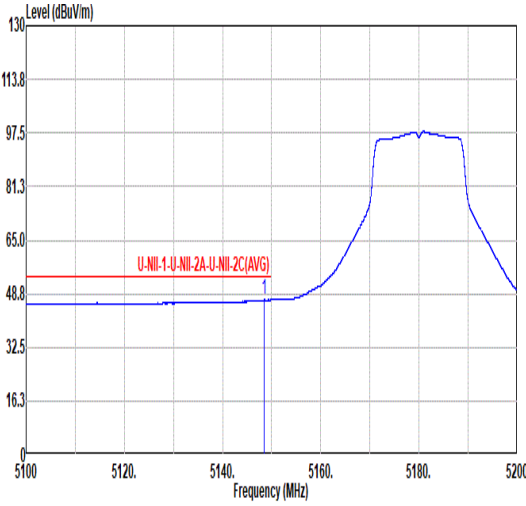
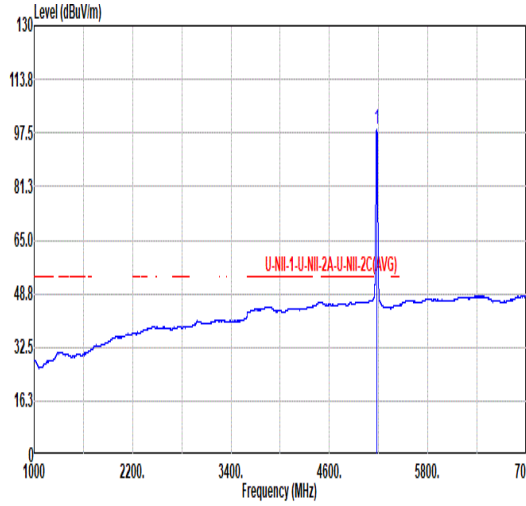


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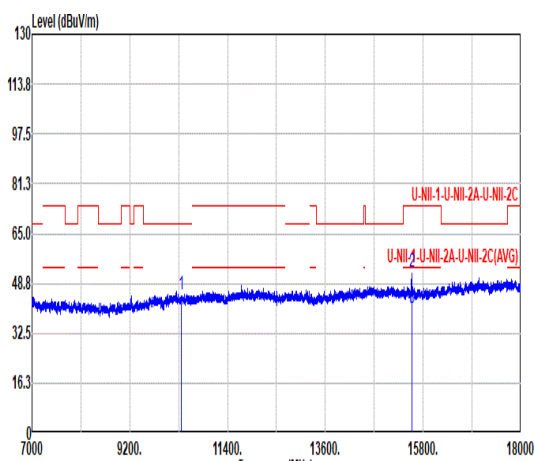
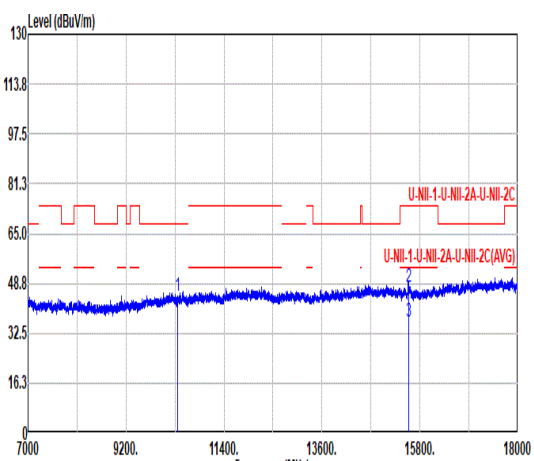


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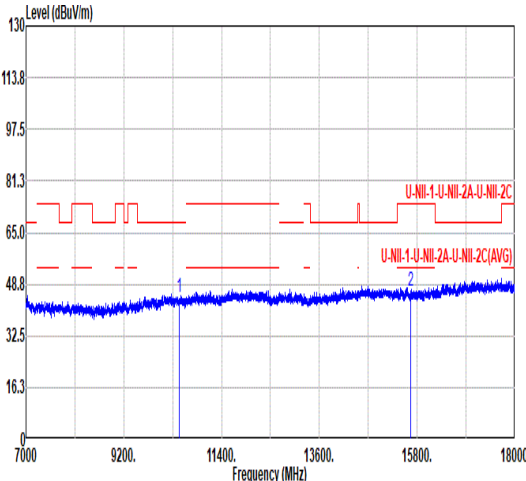


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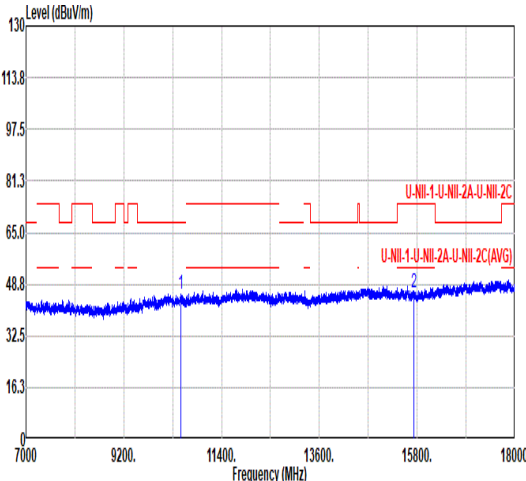
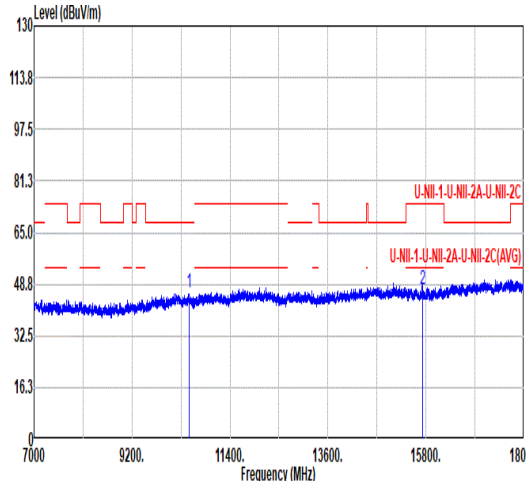


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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																				
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1	10360.00	45.05	68.20	-23.15	54.84	37.62	18.04	65.45	0.00	--	PEAK																																																																		
2	15540.00	52.49	74.00	-21.51	54.23	40.24	22.32	64.30	0.00	280	244 PEAK																																																																		
3	15540.00	40.94	54.00	-13.06	42.69	40.24	22.31	64.30	0.00	280	244 AVERAGE																																																																		
																																																																													
<table><tr><th></th><th>Limit</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 Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th>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></tr><tr><td>1</td><td>10360.00</td><td>44.66</td><td>68.20</td><td>-23.54</td><td>54.45</td><td>37.62</td><td>18.04</td><td>65.45</td><td>0.00</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>15540.00</td><td>47.73</td><td>74.00</td><td>-26.27</td><td>49.47</td><td>40.24</td><td>22.32</td><td>64.30</td><td>0.00</td><td>100</td><td>360 PEAK</td></tr><tr><td>3</td><td>15540.00</td><td>36.27</td><td>54.00</td><td>-17.73</td><td>38.03</td><td>40.25</td><td>22.29</td><td>64.30</td><td>0.00</td><td>100</td><td>360 AVERAGE</td></tr></table>											Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor			Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	10360.00	44.66	68.20	-23.54	54.45	37.62	18.04	65.45	0.00	--	PEAK	2	15540.00	47.73	74.00	-26.27	49.47	40.24	22.32	64.30	0.00	100	360 PEAK	3	15540.00	36.27	54.00	-17.73	38.03	40.25	22.29	64.30	0.00	100	360 AVERAGE	
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																					
Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor			Remark																																																																				
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1	10360.00	44.66	68.20	-23.54	54.45	37.62	18.04	65.45	0.00	--	PEAK																																																																		
2	15540.00	47.73	74.00	-26.27	49.47	40.24	22.32	64.30	0.00	100	360 PEAK																																																																		
3	15540.00	36.27	54.00	-17.73	38.03	40.25	22.29	64.30	0.00	100	360 AVERAGE																																																																		



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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																											
Freq	Level	Line Margin	Level	Factor	Loss Factor	Factor																																																															
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																										
1	10440.00	44.52	68.20	-23.68	53.86	37.70	18.31	65.35	0.00	--	-- PEAK																																																										
2	15660.00	46.65	74.00	-27.35	48.60	40.36	22.03	64.34	0.00	--	-- PEAK																																																										
	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th></th><th></th></tr><tr><th></th><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>10440.00</td><td>45.29</td><td>68.20</td><td>-22.91</td><td>54.63</td><td>37.70</td><td>18.31</td><td>65.35</td><td>0.00</td><td>--</td><td>-- PEAK</td></tr><tr><td>2</td><td>15660.00</td><td>46.55</td><td>74.00</td><td>-27.45</td><td>48.50</td><td>40.36</td><td>22.03</td><td>64.34</td><td>0.00</td><td>--</td><td>-- PEAK</td></tr></table>												Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line Margin	Level	Factor	Loss Factor	Factor						MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	10440.00	45.29	68.20	-22.91	54.63	37.70	18.31	65.35	0.00	--	-- PEAK	2	15660.00	46.55	74.00	-27.45	48.50	40.36	22.03	64.34	0.00	--	-- PEAK
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																												
Freq	Level	Line Margin	Level	Factor	Loss Factor	Factor																																																															
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																										
1	10440.00	45.29	68.20	-22.91	54.63	37.70	18.31	65.35	0.00	--	-- PEAK																																																										
2	15660.00	46.55	74.00	-27.45	48.50	40.36	22.03	64.34	0.00	--	-- PEAK																																																										



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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																									
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																																									
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1	10480.00	45.56	68.20	-22.64	54.93	37.70	18.24	65.31	0.00	--	PEAK																																																							
2	15720.00	46.28	74.00	-27.72	48.09	40.42	22.13	64.36	0.00	--	PEAK																																																							
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	<table><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><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>cm</th><th>deg</th></tr><tr><td>1</td><td>10480.00</td><td>45.94</td><td>68.20</td><td>-22.26</td><td>55.31</td><td>37.70</td><td>18.24</td><td>65.31</td><td>0.00</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>15720.00</td><td>46.97</td><td>74.00</td><td>-27.03</td><td>48.78</td><td>40.42</td><td>22.13</td><td>64.36</td><td>0.00</td><td>--</td><td>PEAK</td></tr></table>												Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	10480.00	45.94	68.20	-22.26	55.31	37.70	18.24	65.31	0.00	--	PEAK	2	15720.00	46.97	74.00	-27.03	48.78	40.42	22.13	64.36	0.00	--	PEAK
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																									
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1	10480.00	45.94	68.20	-22.26	55.31	37.70	18.24	65.31	0.00	--	PEAK																																																							
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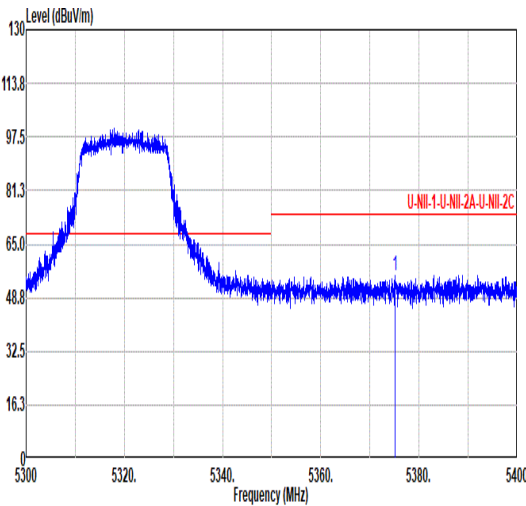
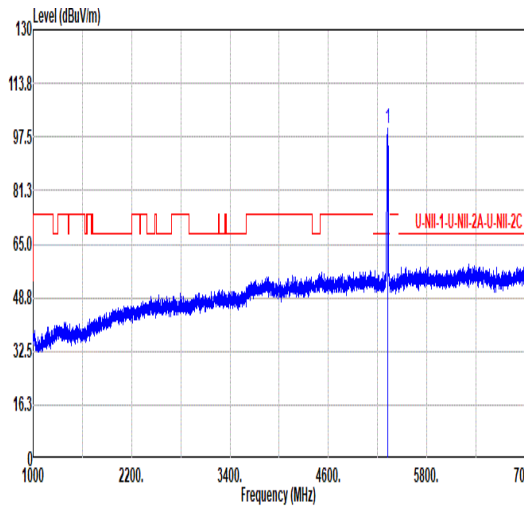
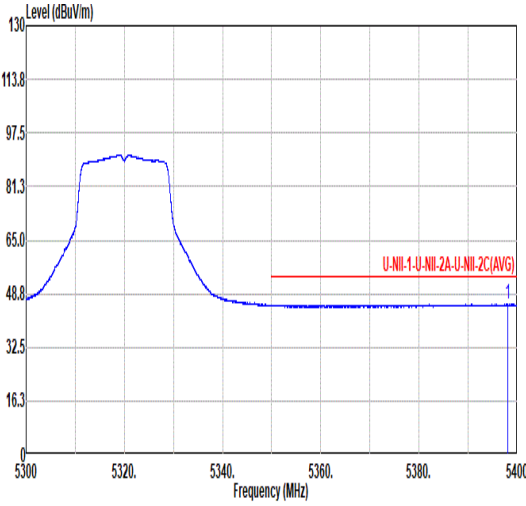
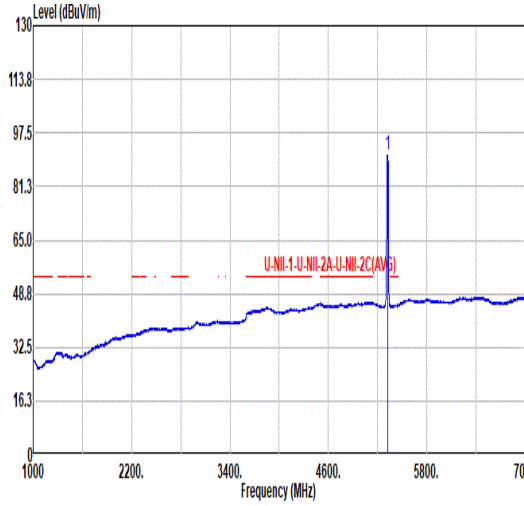


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			Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																			
	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																							
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																					
1	10520.00	45.30	68.20	-22.90	54.46	37.70	18.16	65.02	0.00	--	--	PEAK																																																				
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		Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																				
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																					
1	10520.00	45.34	68.20	-22.86	54.53	37.70	18.11	65.00	0.00	--	--	PEAK																																																				

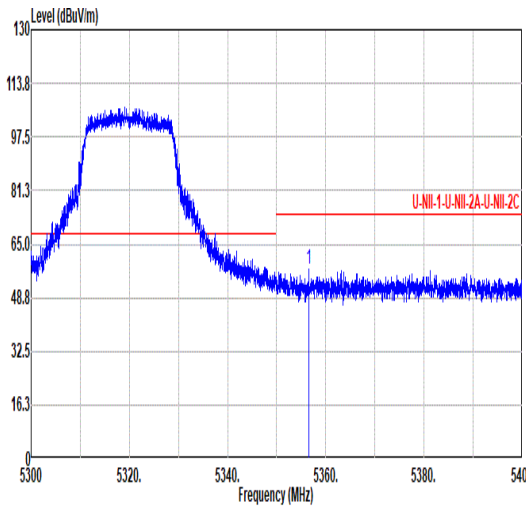
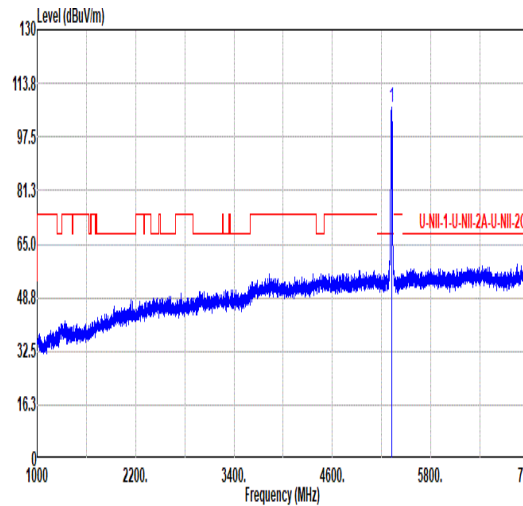
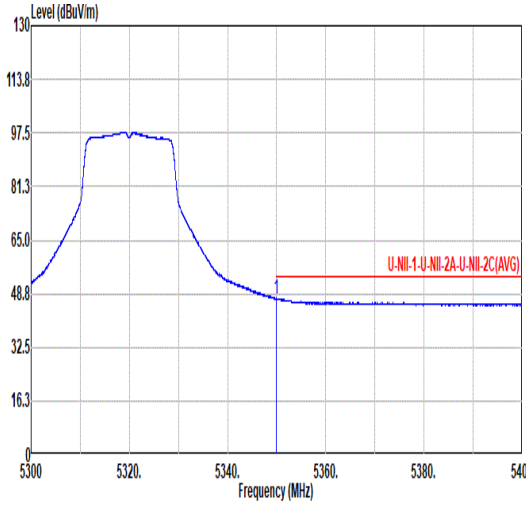
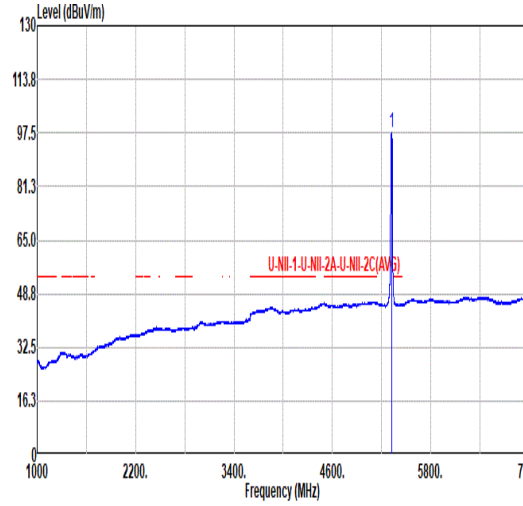


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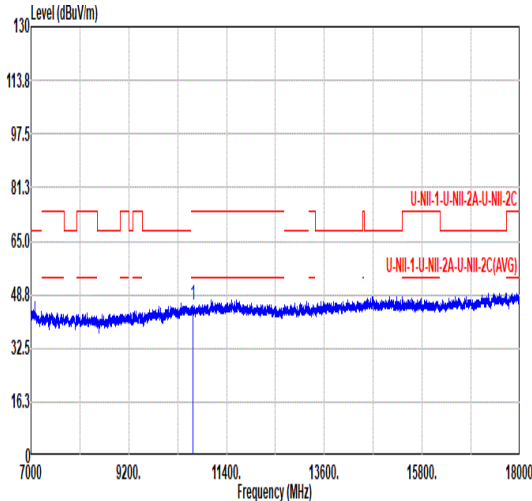
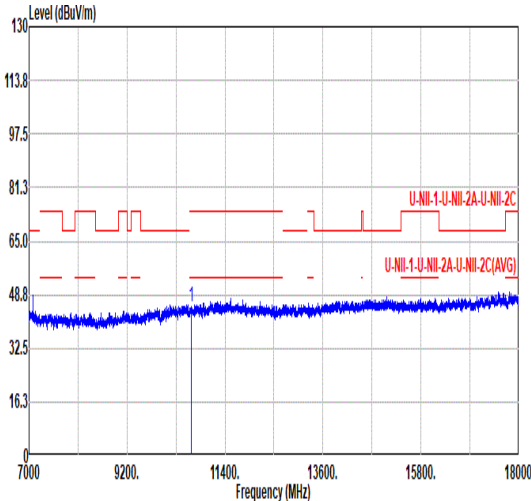


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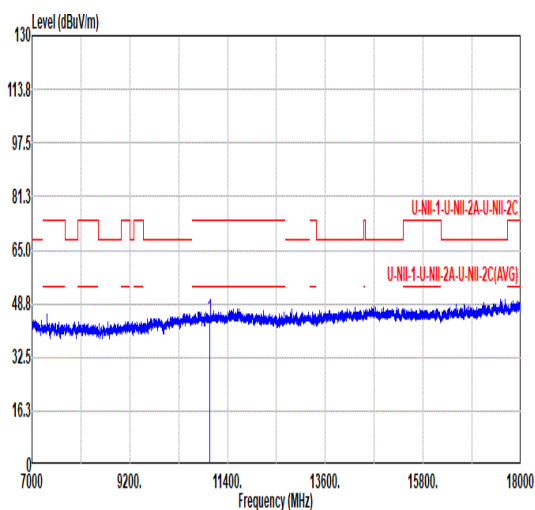
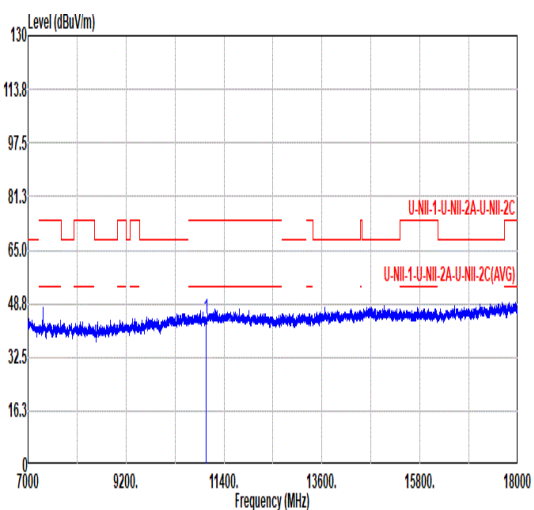


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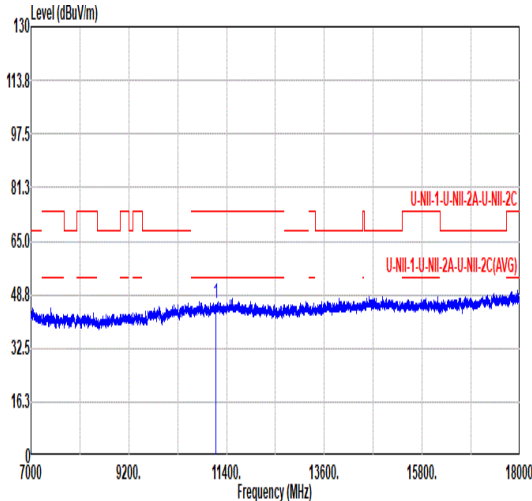
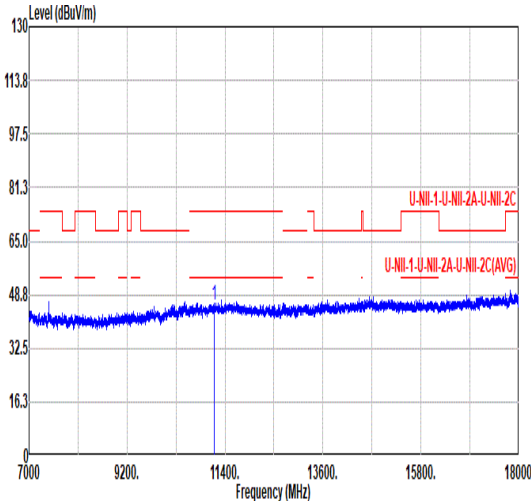


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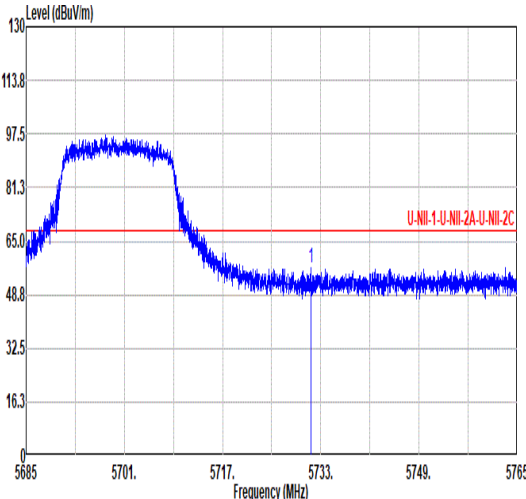
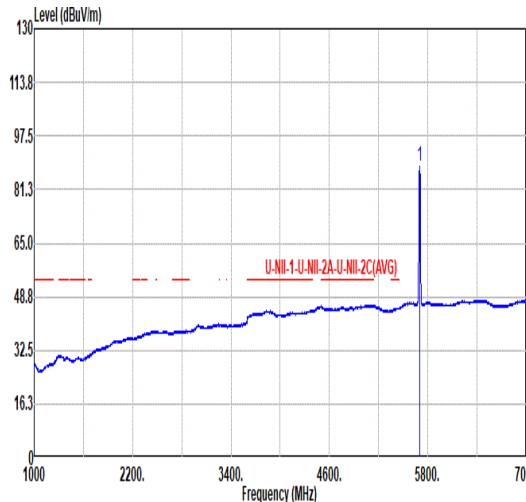


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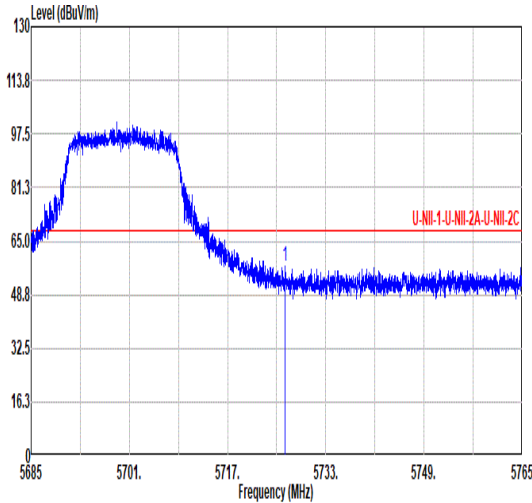
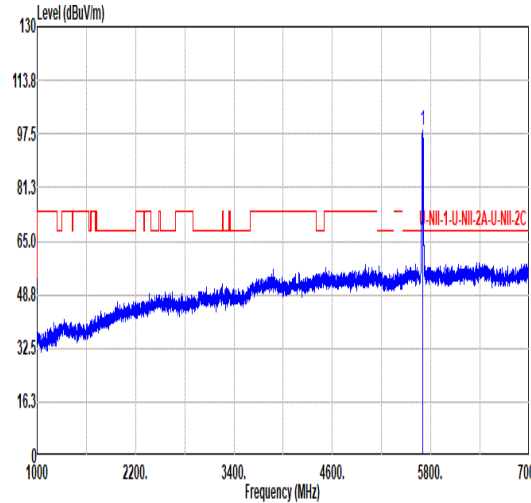
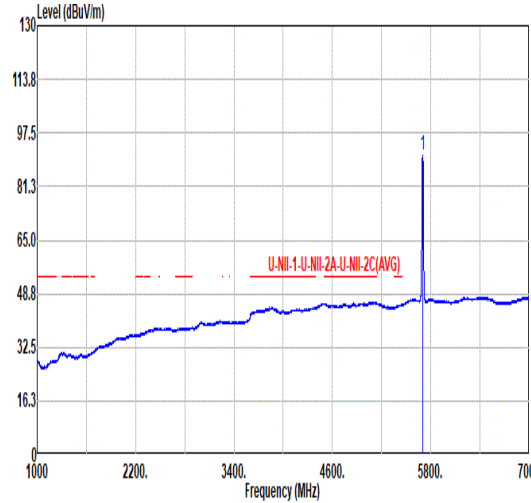


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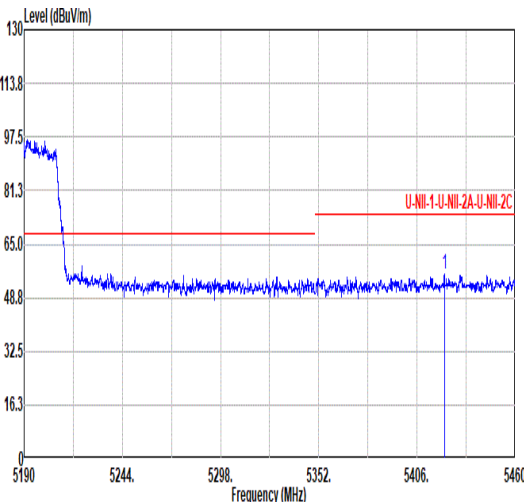
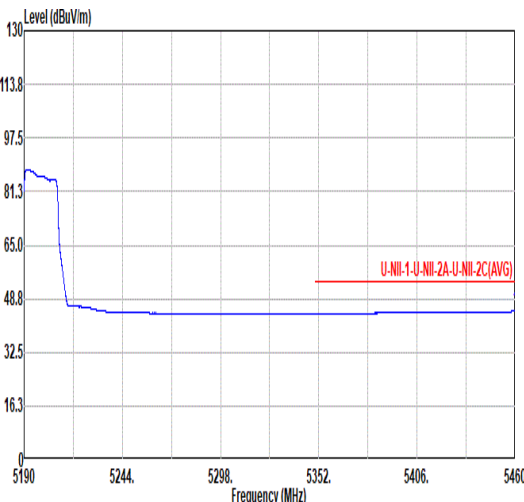


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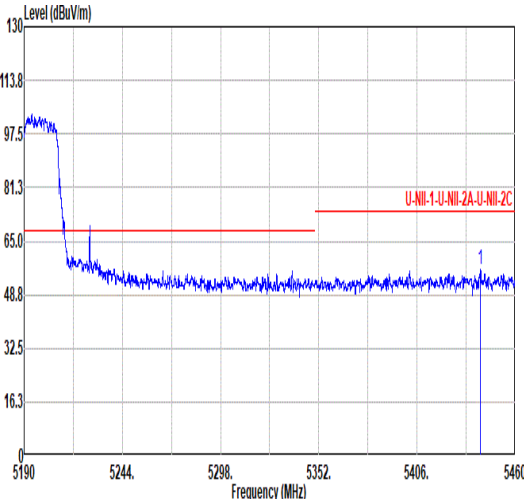
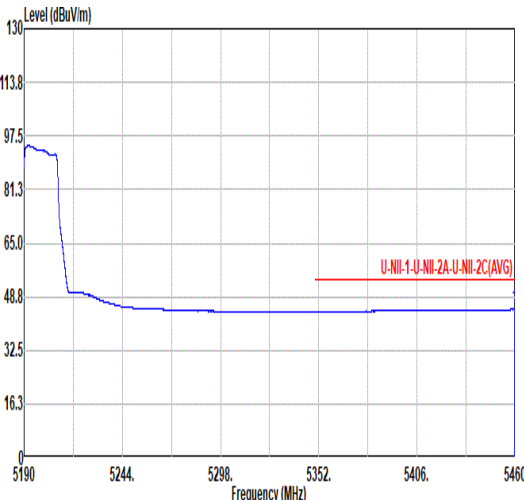


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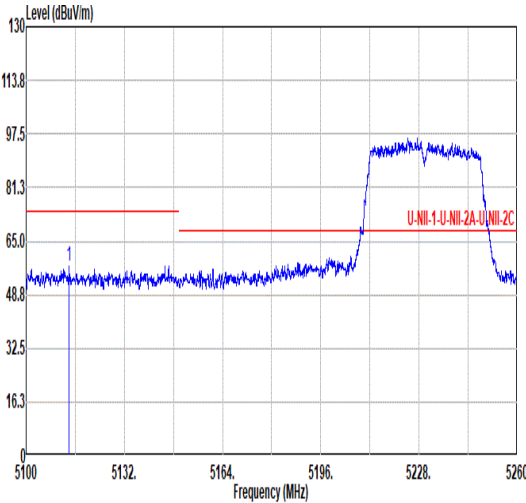
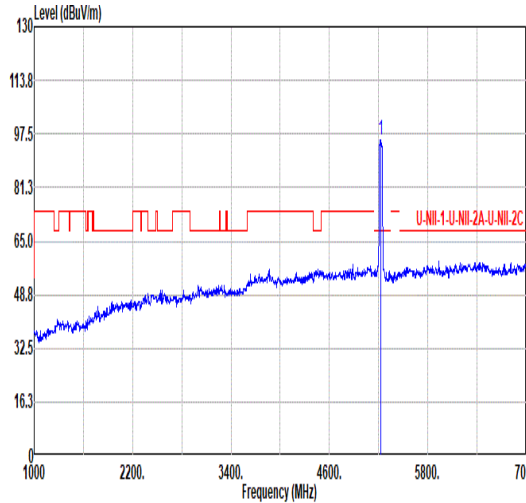
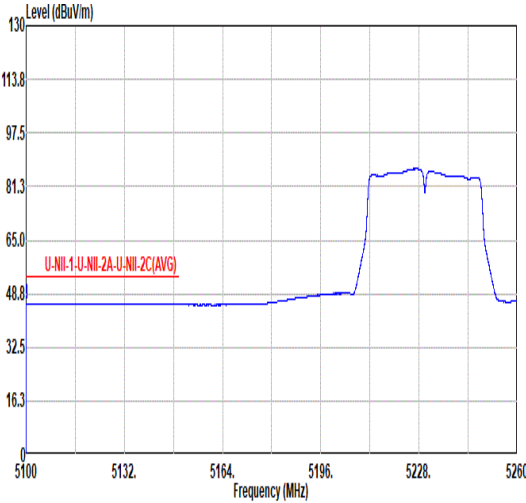
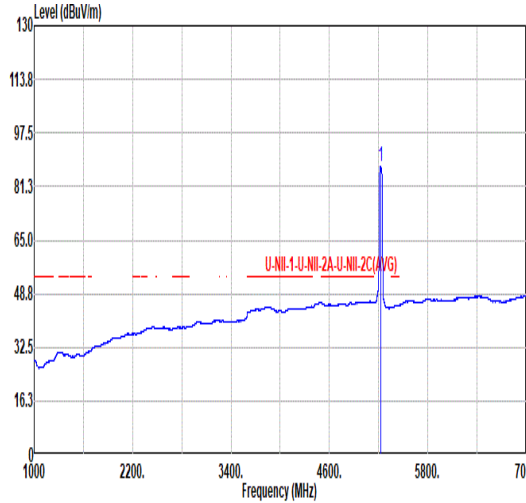


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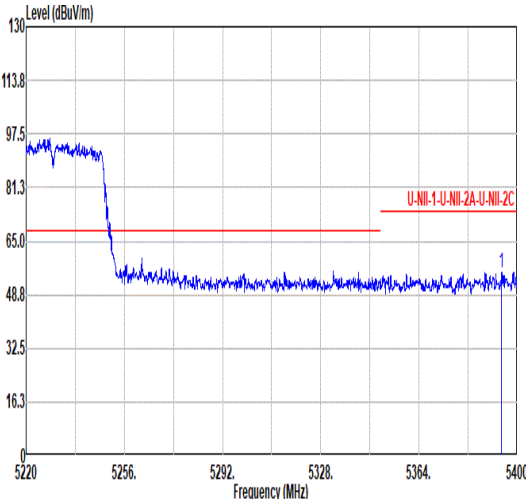
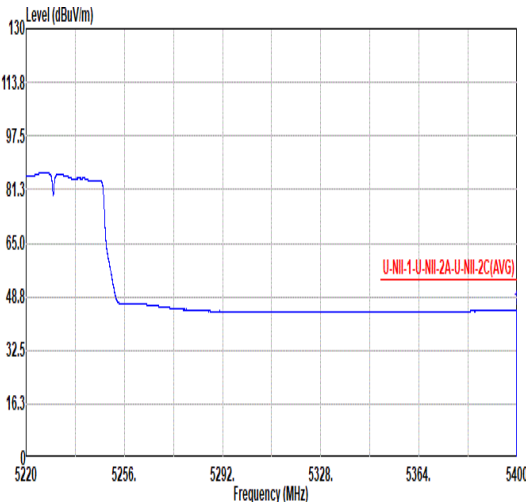


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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																				
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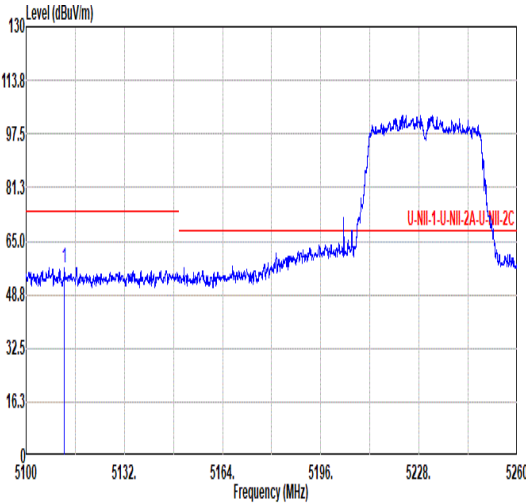
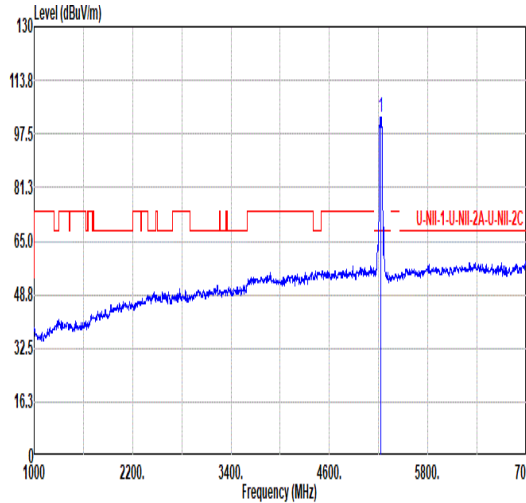
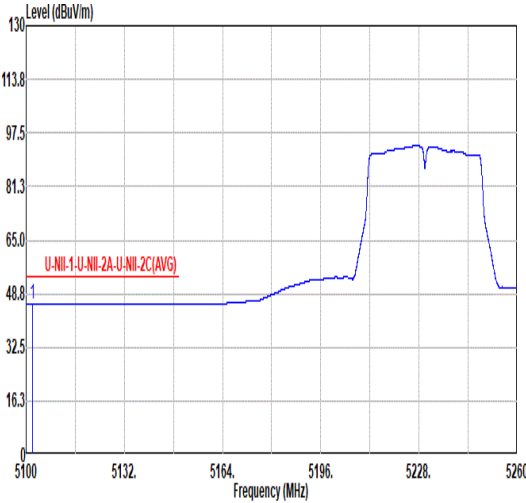
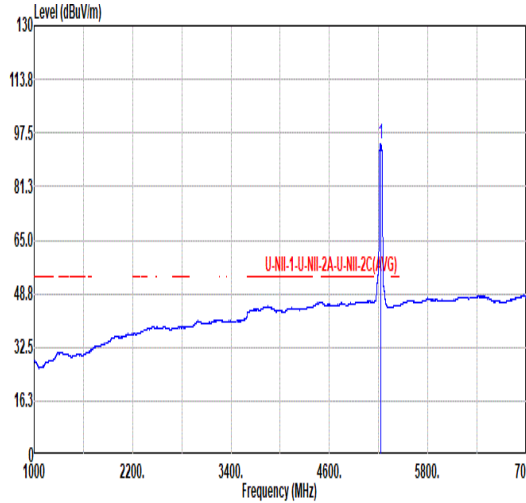


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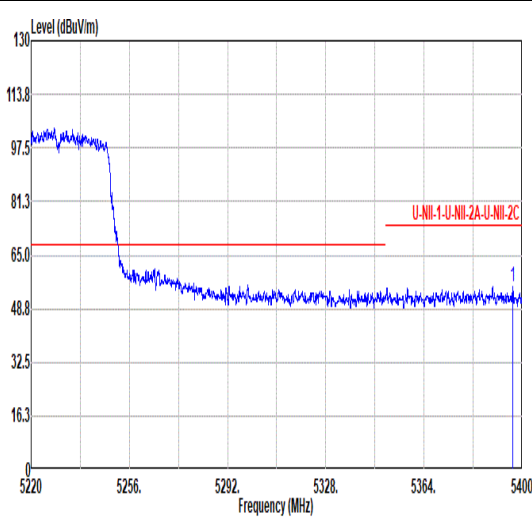
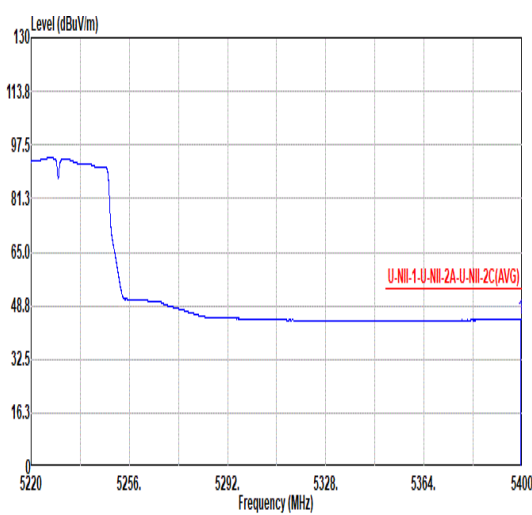


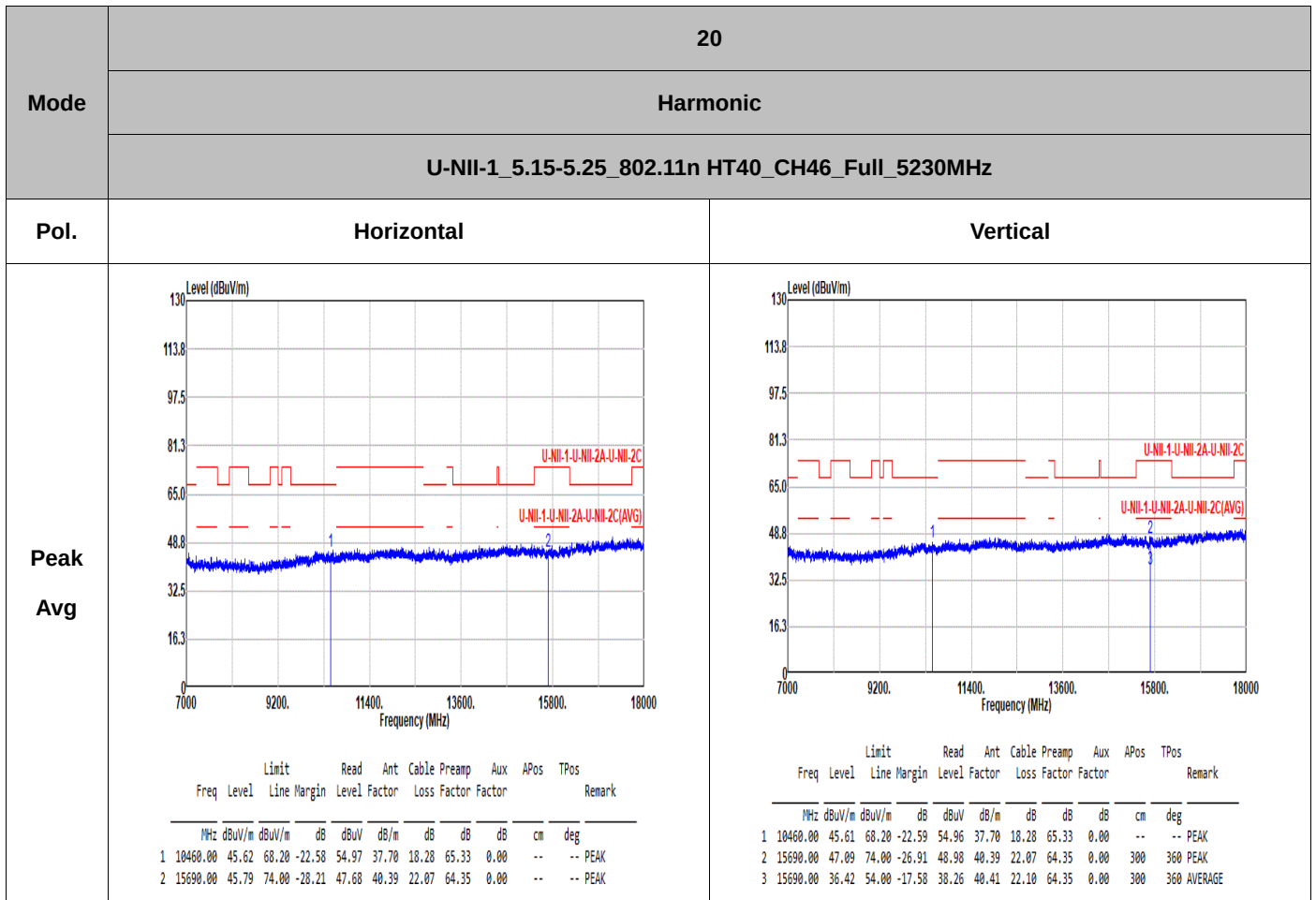
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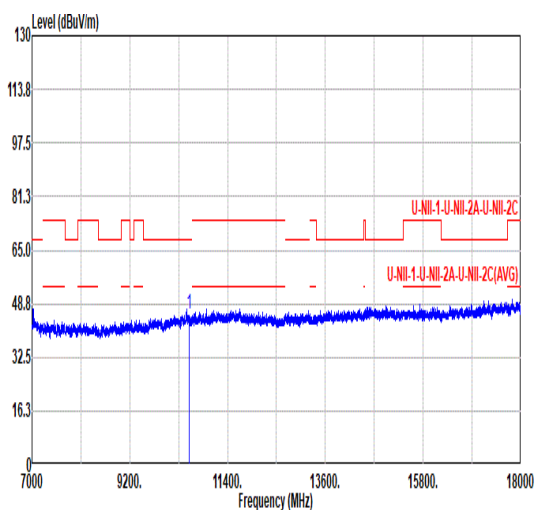
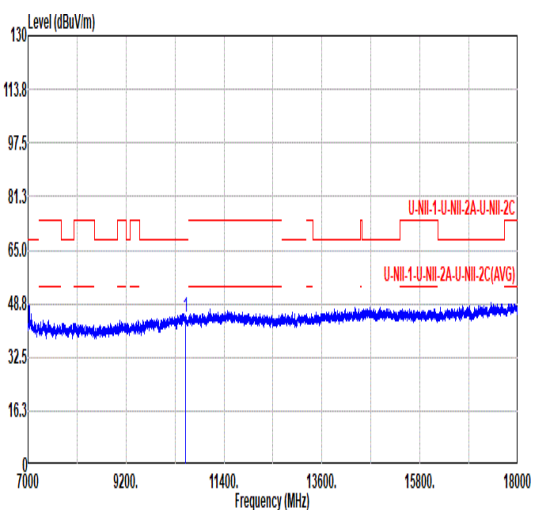


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	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><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>cm</th><th>deg</th></tr><tr><td>1</td><td>5131.99</td><td>56.70</td><td>74.00</td><td>-17.30</td><td>40.09</td><td>34.24</td><td>12.45</td><td>30.08</td><td>0.00</td><td>272</td><td>156</td><td>PEAK</td></tr></table>													Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line Margin	Level Factor	Loss Factor	Factor	Factor			Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5131.99	56.70	74.00	-17.30	40.09	34.24	12.45	30.08	0.00	272	156
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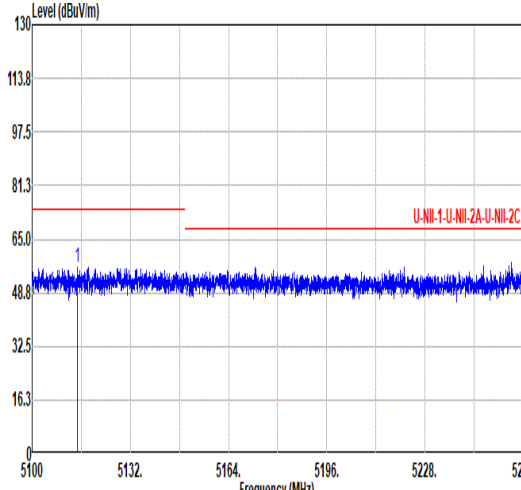
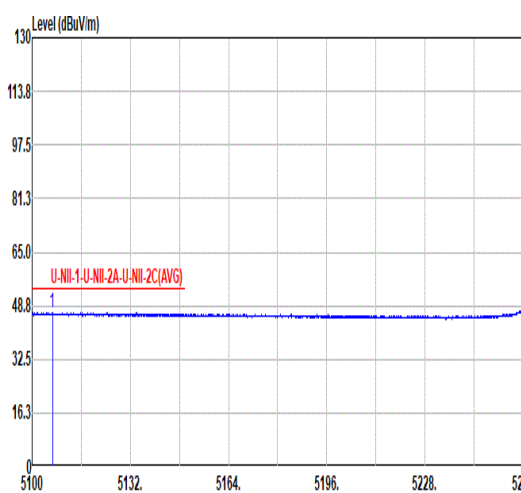
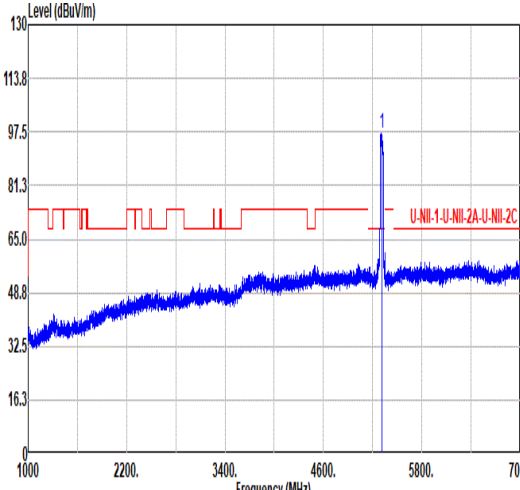
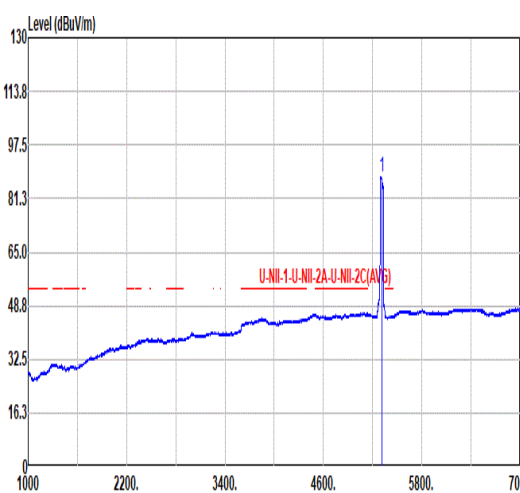


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1	5447.71	56.05	74.00	-17.95	38.24	34.60	12.80	29.59	0.00	272 156 PEAK																																													
Avg	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="2"></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th></tr><tr><th></th><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>cm</th><th>deg</th></tr><tr><td>1</td><td>5455.44</td><td>46.22</td><td>54.00</td><td>-7.78</td><td>28.38</td><td>34.60</td><td>12.82</td><td>29.58</td><td>0.00</td><td>272 156 AVERAGE</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos			Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5455.44	46.22	54.00	-7.78	28.38	34.60	12.82	29.58	0.00	272 156 AVERAGE	Blank				
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1	10540.00	45.61	68.20	-22.59	54.85	37.70	18.04	64.98	0.00	--	--	PEAK																																																		
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1	10540.00	44.66	68.20	-23.54	53.88	37.70	18.07	64.99	0.00	--	--	PEAK																																																		



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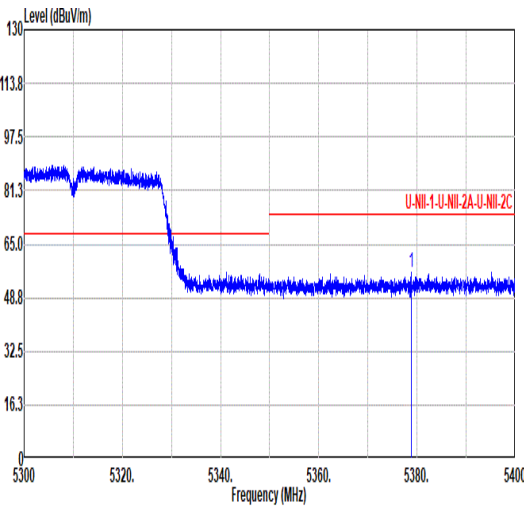
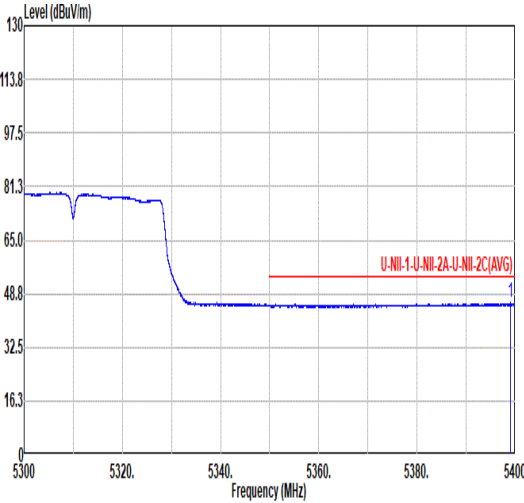


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Pol.	Horizontal						Fundamental																																																
Peak	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><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>cm</th><th>deg</th></tr><tr><td>1</td><td>5352.87</td><td>55.94</td><td>74.00</td><td>-18.06</td><td>38.49</td><td>34.60</td><td>12.59</td><td>29.74</td><td>0.00</td><td>102</td><td>357</td><td>PEAK</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5352.87	55.94	74.00	-18.06	38.49	34.60	12.59	29.74	0.00	102	357	PEAK	Blank				
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																															
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																														
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																													
1	5352.87	55.94	74.00	-18.06	38.49	34.60	12.59	29.74	0.00	102	357	PEAK																																											
Avg	<table><tr><th></th><th>Limit</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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><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>cm</th><th>deg</th></tr><tr><td>1</td><td>5351.00</td><td>46.56</td><td>54.00</td><td>-7.44</td><td>29.13</td><td>34.60</td><td>12.57</td><td>29.74</td><td>0.00</td><td>102</td><td>357</td><td>AVERAGE</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5351.00	46.56	54.00	-7.44	29.13	34.60	12.57	29.74	0.00	102	357	AVERAGE	Blank				
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																															
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																														
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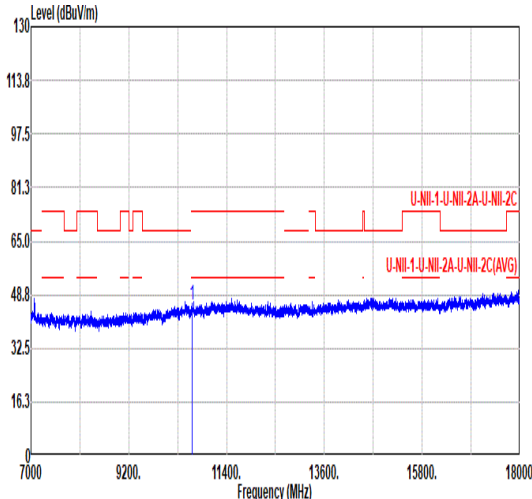
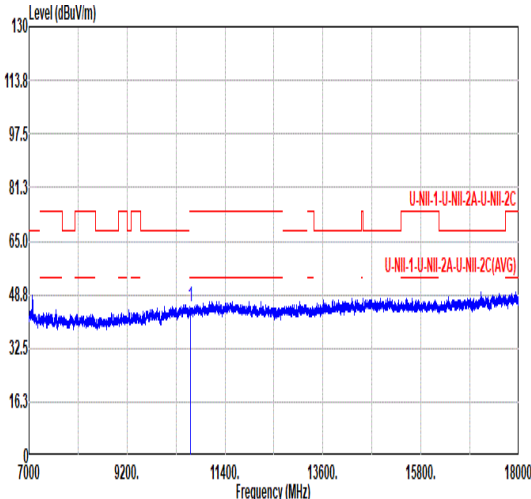


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	Band Edge - L										
	U-NII-2A_5.25-5.35_802.11n HT40_CH62_5310MHz										
Pol.	Fundamental										
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Mode	22																																																					
	Band Edge - R																																																					
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Pol.	Vertical										Fundamental																																											
Peak	<table><tr><th></th><th>Limit</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></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><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>cm</th><th>deg</th></tr><tr><td>1</td><td>5378.77</td><td>56.58</td><td>74.00</td><td>-17.42</td><td>38.85</td><td>34.60</td><td>12.83</td><td>29.70</td><td>0.00</td><td>0</td><td>PEAK</td></tr></table>											Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5378.77	56.58	74.00	-17.42	38.85	34.60	12.83	29.70	0.00	0	PEAK	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																													
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																														
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																												
1	5378.77	56.58	74.00	-17.42	38.85	34.60	12.83	29.70	0.00	0	PEAK																																											
Avg	<table><tr><th></th><th>Limit</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></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><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>cm</th><th>deg</th></tr><tr><td>1</td><td>5399.05</td><td>46.02</td><td>54.00</td><td>-7.98</td><td>28.07</td><td>34.60</td><td>13.02</td><td>29.67</td><td>0.00</td><td>0</td><td>AVERAGE</td></tr></table>											Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5399.05	46.02	54.00	-7.98	28.07	34.60	13.02	29.67	0.00	0	AVERAGE	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																													
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																														
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																												
1	5399.05	46.02	54.00	-7.98	28.07	34.60	13.02	29.67	0.00	0	AVERAGE																																											

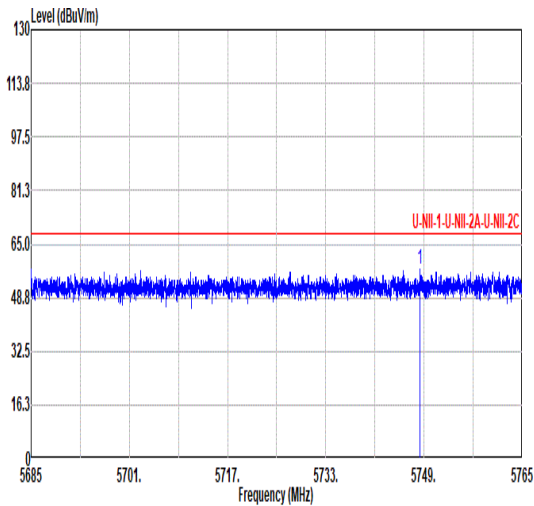


Mode	22																																																																																																																
	Harmonic																																																																																																																
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	<table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th rowspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th></th><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></th></tr><tr><td>1</td><td>10620.00</td><td>45.56</td><td>74.00</td><td>-28.44</td><td>54.87</td><td>37.72</td><td>17.86</td><td>64.89</td><td>0.00</td><td>--</td><td>--</td><td>PEAK</td></tr></table>								Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor					MHz	dBUV/m	dBUV/m	dB	dBUV	dB/m	dB	dB	dB	cm	deg		1	10620.00	45.56	74.00	-28.44	54.87	37.72	17.86	64.89	0.00	--	--	PEAK	<table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th rowspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th></th><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></th></tr><tr><td>1</td><td>10620.00</td><td>44.93</td><td>74.00</td><td>-29.07</td><td>54.24</td><td>37.72</td><td>17.86</td><td>64.89</td><td>0.00</td><td>--</td><td>--</td><td>PEAK</td></tr></table>								Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor					MHz	dBUV/m	dBUV/m	dB	dBUV	dB/m	dB	dB	dB	cm	deg		1	10620.00	44.93	74.00	-29.07	54.24	37.72	17.86	64.89	0.00	--	--
		Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																					
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1	10620.00	45.56	74.00	-28.44	54.87	37.72	17.86	64.89	0.00	--	--	PEAK																																																																																																					
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1	10620.00	44.93	74.00	-29.07	54.24	37.72	17.86	64.89	0.00	--	--	PEAK																																																																																																					



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Pol.	Horizontal											Fundamental																																																																																	
Peak																																																																																													
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos			Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg	1	5443.40	56.57	74.00	-17.43	38.75	34.60	12.82	29.60	0.00	136	336	PEAK	2	5465.32	57.47	68.20	-10.73	39.55	34.60	12.88	29.56	0.00	136	336	PEAK		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos			Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg	1	5510.00	93.82	-----	-----	75.60	34.64	13.07	29.49	0.00	136	336	PEAK										
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																					
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg																																																																																			
1	5443.40	56.57	74.00	-17.43	38.75	34.60	12.82	29.60	0.00	136	336	PEAK																																																																																	
2	5465.32	57.47	68.20	-10.73	39.55	34.60	12.88	29.56	0.00	136	336	PEAK																																																																																	
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1	5510.00	93.82	-----	-----	75.60	34.64	13.07	29.49	0.00	136	336	PEAK																																																																																	
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos			Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg	1	5459.40	46.70	54.00	-7.30	28.83	34.60	12.84	29.57	0.00	136	336	AVERAGE		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos			Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg	1	5510.00	86.22	-----	-----	68.02	34.63	13.07	29.50	0.00	136	336	AVERAGE																							
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg																																																																																			
1	5459.40	46.70	54.00	-7.30	28.83	34.60	12.84	29.57	0.00	136	336	AVERAGE																																																																																	
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																					
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1	5510.00	86.22	-----	-----	68.02	34.63	13.07	29.50	0.00	136	336	AVERAGE																																																																																	



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Pol.	Horizontal	Fundamental																																																			
Peak	<table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th rowspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></th></tr><tr><th></th><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></th></tr><tr><td>1</td><td>5748.36</td><td>57.41</td><td>68.20</td><td>-10.79</td><td>39.03</td><td>34.70</td><td>13.51</td><td>29.83</td><td>0.00</td><td>136</td><td>336</td><td>PEAK</td></tr></table>			Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor					MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	5748.36	57.41	68.20	-10.79	39.03	34.70	13.51	29.83	0.00	136	336	PEAK	Blank
		Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark																																									
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																													
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																										
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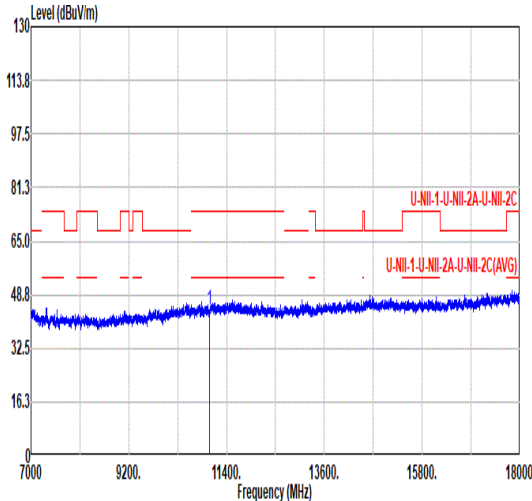
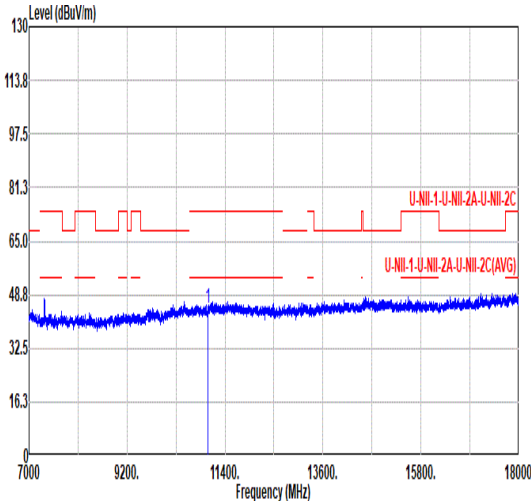


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Pol.	Vertical						Fundamental																																																																																																													
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																											
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																									
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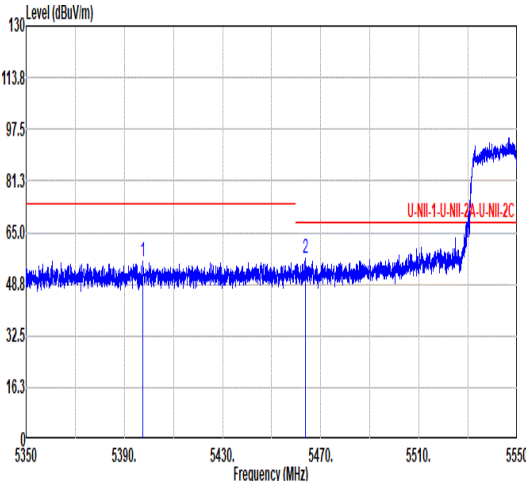
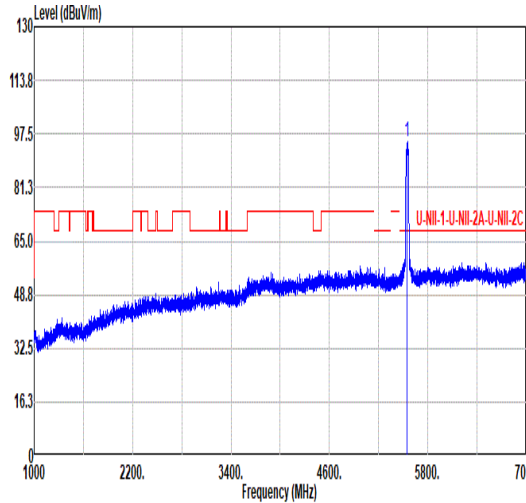
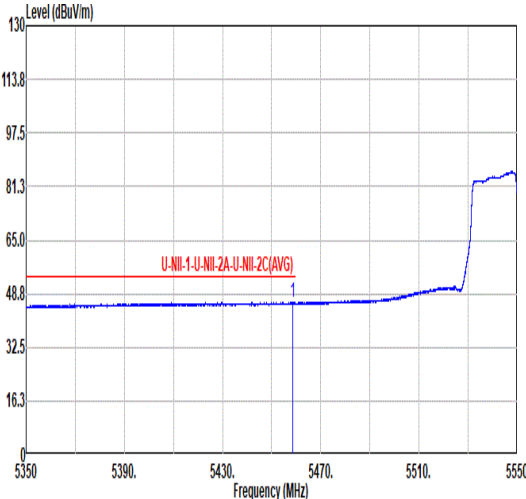
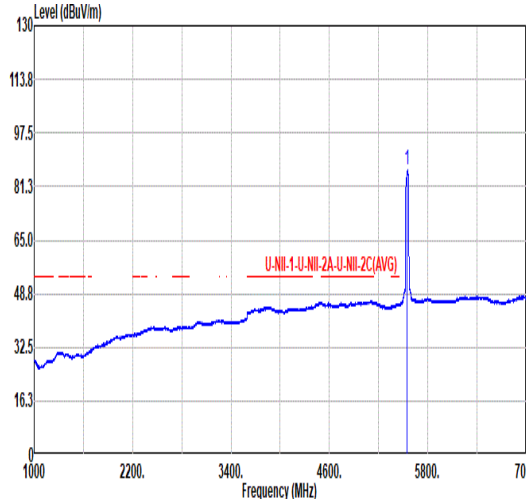


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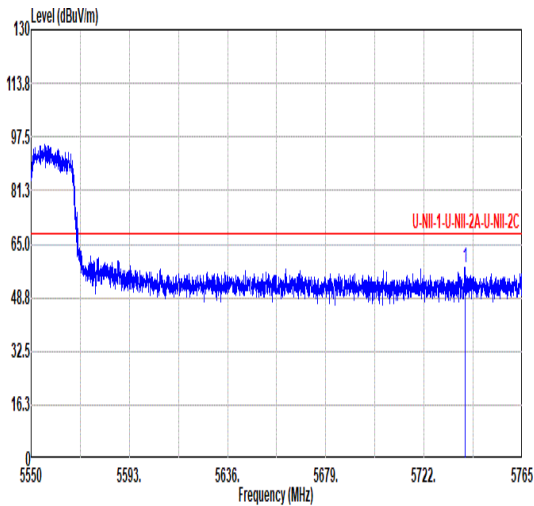


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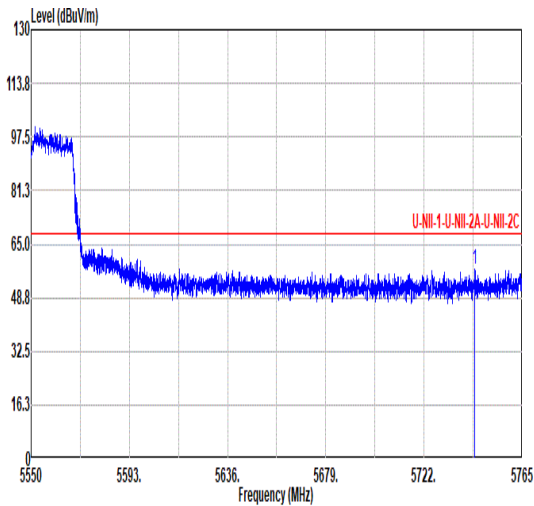


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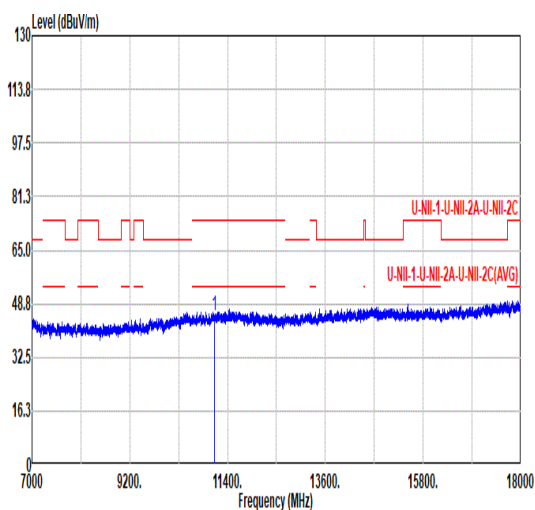
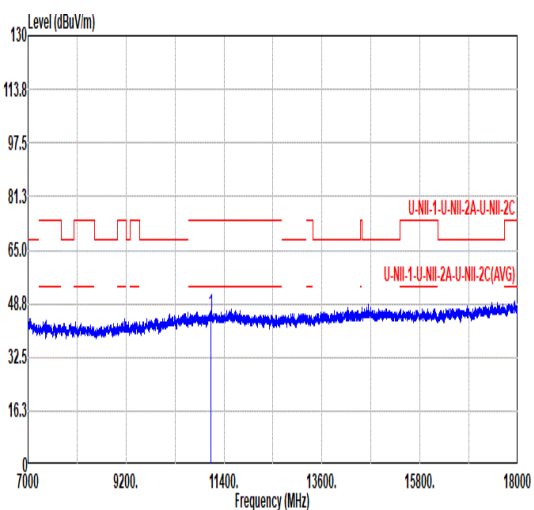


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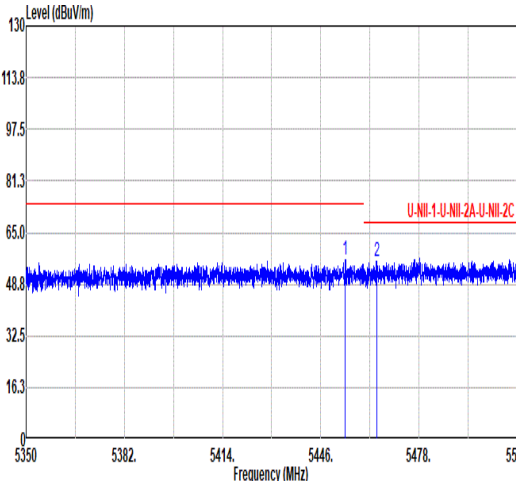
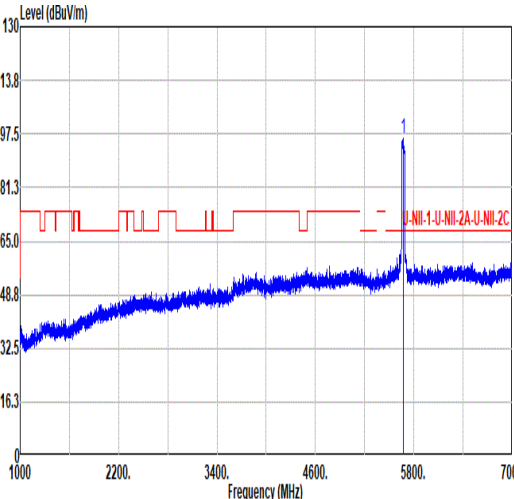
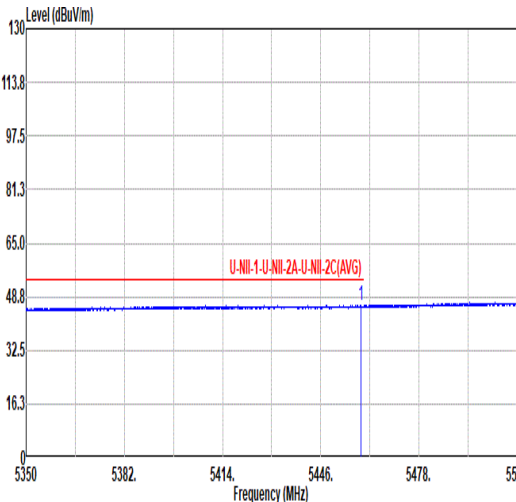
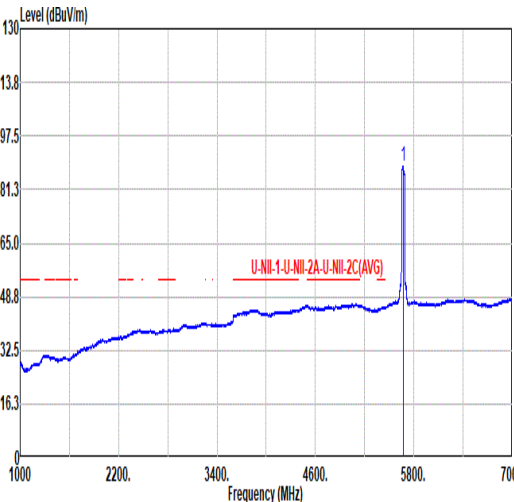


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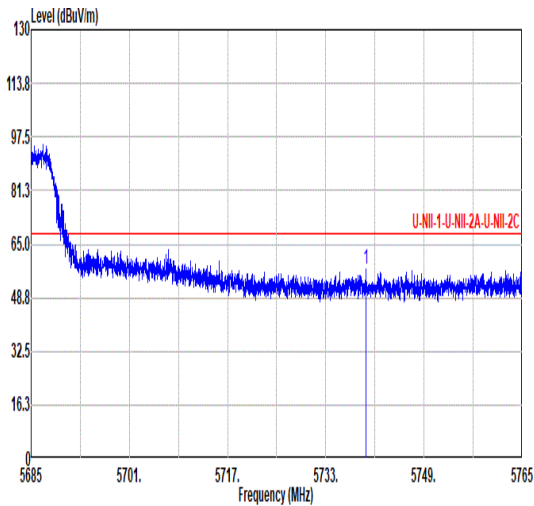


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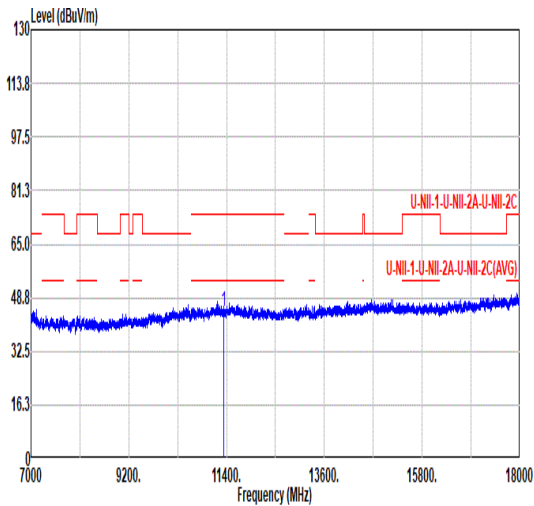
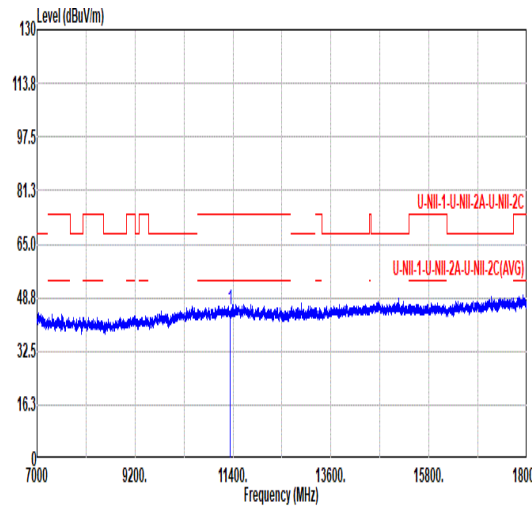


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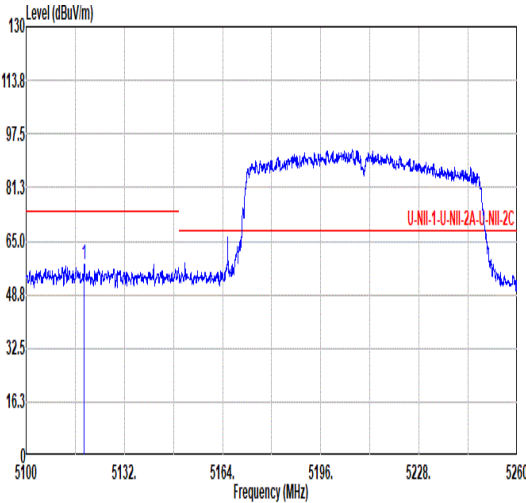
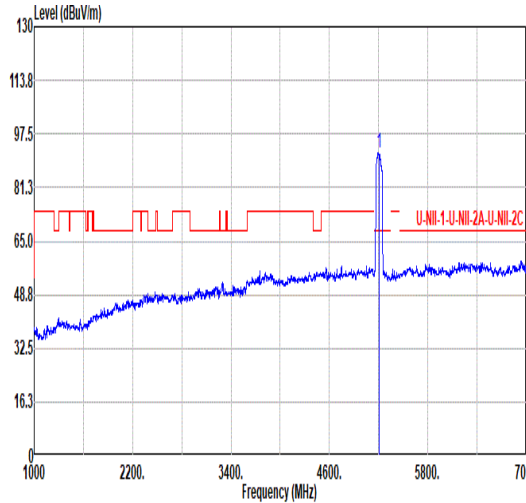
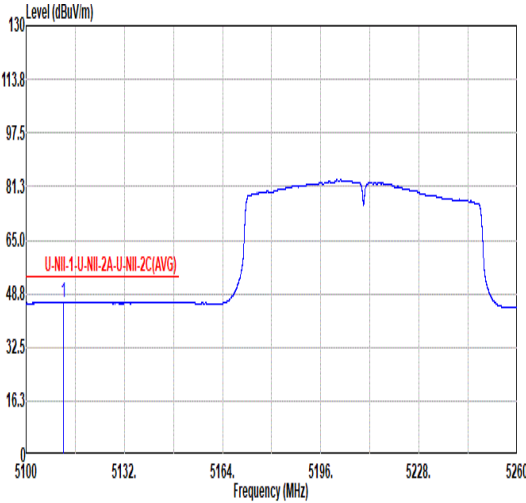
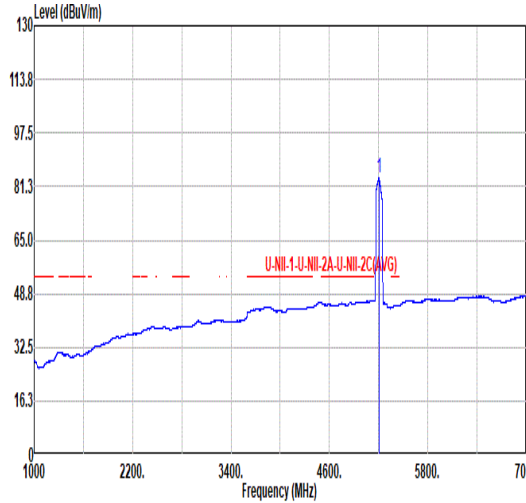


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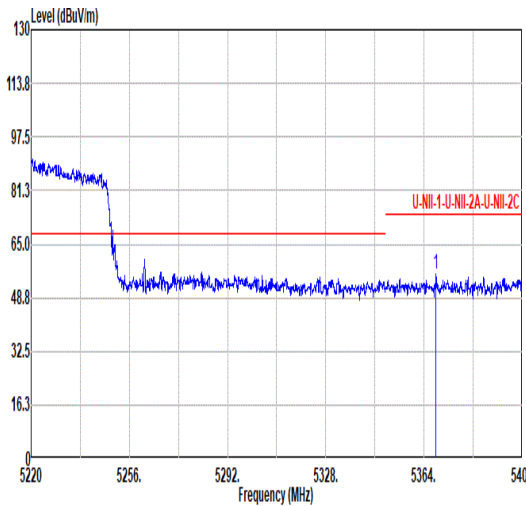
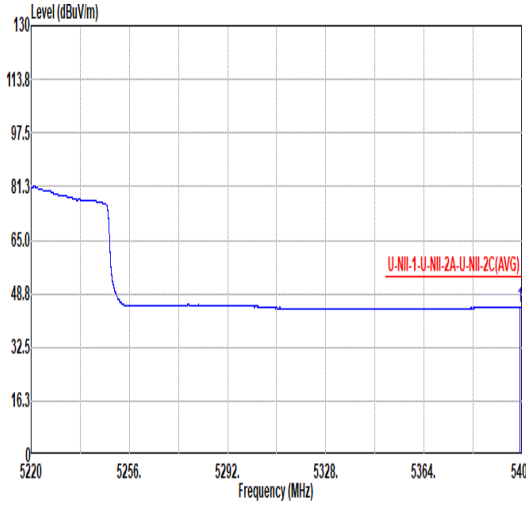


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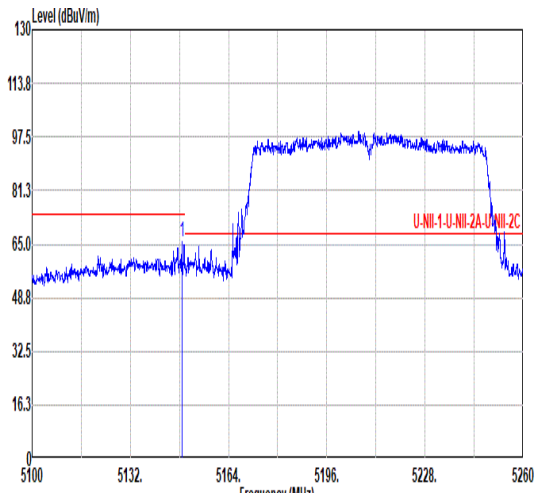
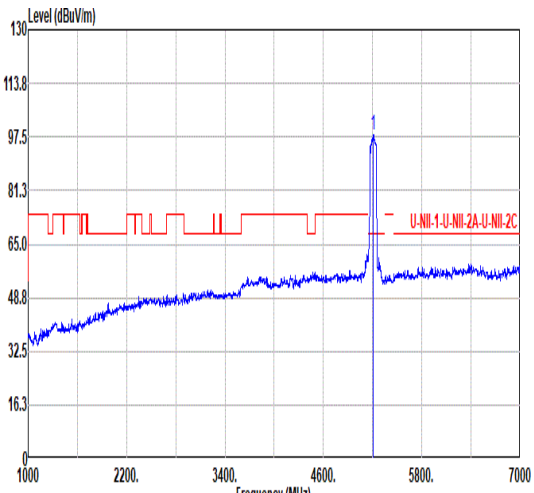
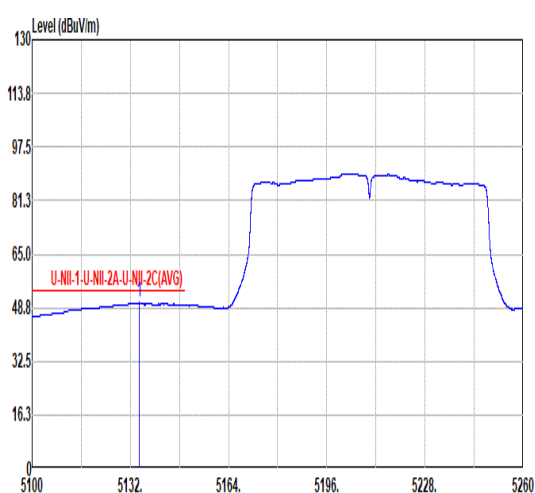
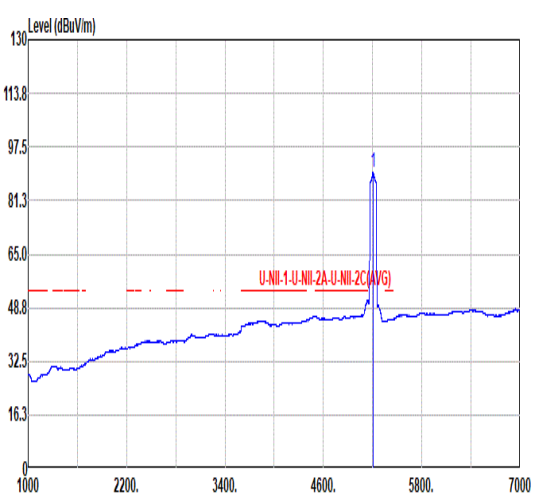


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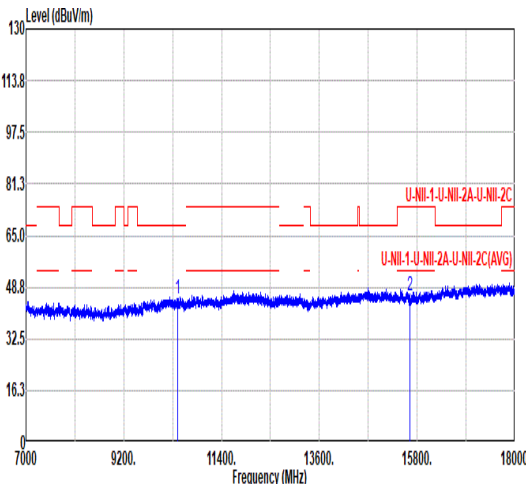
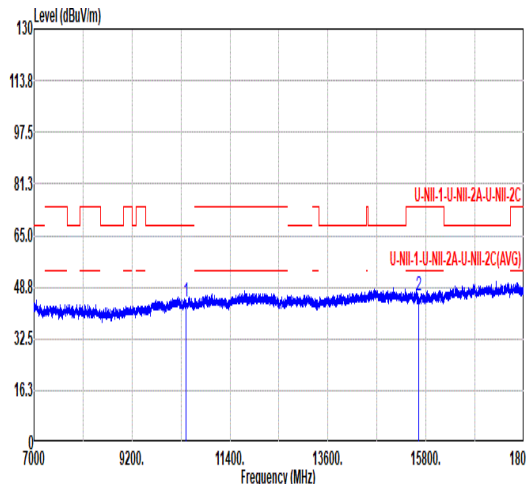


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Avg	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><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>cm</th><th>deg</th></tr><tr><td>1</td><td>5399.36</td><td>44.72</td><td>54.00</td><td>-9.28</td><td>27.19</td><td>34.60</td><td>13.02</td><td>30.09</td><td>0.00</td><td>202</td><td>166</td><td>AVERAGE</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5399.36	44.72	54.00	-9.28	27.19	34.60	13.02	30.09	0.00	202	166	AVERAGE	Blank				
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1	5399.36	44.72	54.00	-9.28	27.19	34.60	13.02	30.09	0.00	202	166	AVERAGE																																											



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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		Freq	Level	Line Margin	Level	Factor	Loss Factor	Factor						MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	10420.00	44.91	68.20	-23.29	54.25	37.70	18.34	65.38	0.00	-- PEAK	2	15630.00	46.04	74.00	-27.96	48.05	40.33	21.99	64.33	0.00	-- PEAK										
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1	10420.00	44.91	68.20	-23.29	54.25	37.70	18.34	65.38	0.00	-- PEAK																																																							
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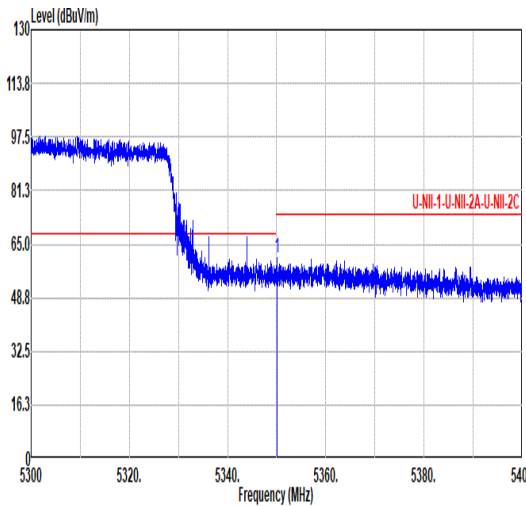
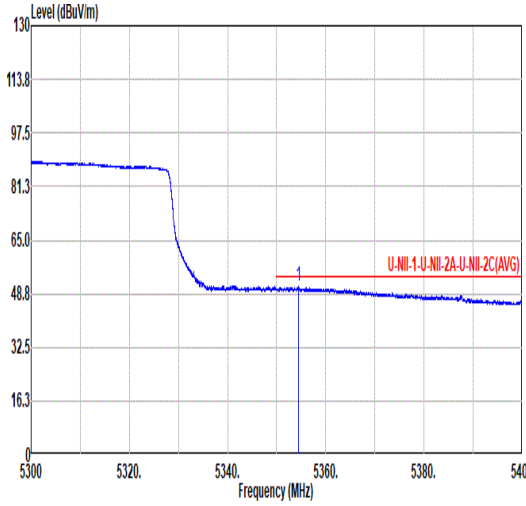


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1	5112.01	46.86	54.00	-7.14	30.25	34.28	12.44	30.11	0.00	100	274	AVERAGE																																											
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Peak	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><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>cm</th><th>deg</th></tr><tr><td>1</td><td>5350.14</td><td>60.85</td><td>74.00</td><td>-13.15</td><td>43.43</td><td>34.60</td><td>12.56</td><td>29.74</td><td>0.00</td><td>100</td><td>274</td><td>PEAK</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5350.14	60.85	74.00	-13.15	43.43	34.60	12.56	29.74	0.00	100	274	PEAK	Blank				
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1	5350.14	60.85	74.00	-13.15	43.43	34.60	12.56	29.74	0.00	100	274	PEAK																																											
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