



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2421-5
FCC ID : IHDT56AR3
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Nov. 02, 2023 ~ Nov. 28, 2023

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
FR381720E	Rev. 01	Initial issue of report	Dec. 13, 2023



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
4.1	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
4.2	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 3.16 dB at 4660.00 MHz
4.3	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	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/manufacturer 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

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2421-5
FCC ID	IHDT56AR3
IMEI Code	355031480008859
HW Version	DVT2
SW Version	ULA34.53
EUT Stage	Identical Prototype

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

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 ~ 5700 MHz 5745 MHz ~ 5825 MHz
Antenna Type / Gain	<5180 MHz ~ 5240 MHz>: PIFA Antenna with gain -3.5 dBi <5260 MHz ~ 5320 MHz>: PIFA Antenna with gain -3.6 dBi <5500 MHz ~ 5700 MHz>: PIFA Antenna with gain -3.3 dBi <5745 MHz ~ 5825 MHz>: PIFA Antenna with gain -6.0 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 and 11ac VHT20 modes, full test 802.11n HT20 to cover 11ac VHT20 by referring to the higher output power.



1.5 Modification of EUT

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

1.6 Specification of Accessory

Specification of Accessory			
AC Adapter 1(US)	Brand Name	Motorola (Salcomp)	Model Name MC-101
AC Adapter 1(EU)	Brand Name	Motorola (Salcomp)	Model Name MC-102
AC Adapter 1(UK)	Brand Name	Motorola (Salcomp)	Model Name MC-103
AC Adapter 1(AU)	Brand Name	Motorola (Salcomp)	Model Name MC-105
AC Adapter 1(CHILE)	Brand Name	Motorola (Salcomp)	Model Name MC-109
AC Adapter 2(US)	Brand Name	Motorola (chenyang)	Model Name MC-101
AC Adapter 2(EU)	Brand Name	Motorola (chenyang)	Model Name MC-102
AC Adapter 2(UK)	Brand Name	Motorola (chenyang)	Model Name MC-103
AC Adapter 2(AU)	Brand Name	Motorola (chenyang)	Model Name MC-105
AC Adapter 3(US)	Brand Name	Motorola (aohai)	Model Name MC-101
AC Adapter 3(EU)	Brand Name	Motorola (aohai)	Model Name MC-102
AC Adapter 3(UK)	Brand Name	Motorola (aohai)	Model Name MC-103
AC Adapter 3(AU)	Brand Name	Motorola (aohai)	Model Name MC-105
Battery 1	Brand Name	Motorola (ATL)	Model Name QF50
Battery 2	Brand Name	Motorola (Sunwoda)	Model Name QF50
Earphone 1	Brand Name	Motorola (New leader)	Model Name NLD-EM313A-20SF
Earphone 2	Brand Name	Motorola (JWELL)	Model Name JWEP1205-L20H
USB Cable 1	Brand Name	Motorola (JWELL)	Model Name JWUB1631-L20H
USB Cable 2	Brand Name	Motorola (Saibao)	Model Name SLQ-A238A

1.7 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.
	03CH07-KS TH01-KS	CN1257	314309



1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH07-KS	AUDIX	E3	210616

1.9 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 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2421-5, FCC ID: IHDT56AR3) is electrically identical to the reference device (Model: XT2421-2, FCC ID: IHDT56AR1) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15E (equipment class: NII) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 Referencing Test Data v02r01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AR3 .

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AR1 and FCC ID: IHDT56AR3 is as below:

- Remove GSM1900, WCDMA Band II / IV and LTE Band 2/4/13/26/38/66.
- Add NFC function and LTE Band 20/41.

Other differences and all the details of similarity and difference can be found in the confidential documents (XT2421-5_Operational Description of Product Equality Declaration).

2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID(Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
15E	U-NII	5180~5240 5260~5320 5500~5700 5745~5825	IHDT56AR1	Original Grant	FR381717D	IHDT56AR3	All sections applicable except for RSE
	DFS	5260~5320 5500~5700	IHDT56AR1	Original Grant	FZ381717	IHDT56AR3	All sections applicable



2.4 Spot Check Verification Data Section

Conducted power test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \tag{1}$$

V_{dB} , the variant spot-check level

R_{dB} , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} = |C_{dB} - R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation d_{dB} from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB} / 20) \text{ dB} , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \tag{2}$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.

Summary for power spot check for each rule entry and technology is listed as below:

Test Item	Mode	IHDT56AR1 Parent Worst Result	IHDT56AR3 Variant Check Result	Deviation (dB)	Limit (dB)
Conducted Power (dBm)	11a UNII-1	18.48	18.06	0.42	3
	11a UNII-2A	18.17	17.56	0.61	3
	11a UNII-2C	18.53	18.38	0.15	3
	11a UNII-3	18.25	18.17	0.08	3
	11n20 UNII-1	18.45	18.10	0.35	3
	11n20 UNII-2A	18.18	17.64	0.54	3
	11n20 UNII-2C	18.58	18.27	0.31	3
	11n20 UNII-3	18.39	18.24	0.15	3
	11ac20 UNII-1	17.49	17.06	0.43	3
	11ac20 UNII-2A	17.39	16.83	0.56	3
	11ac20 UNII-2C	17.67	17.35	0.32	3
	11ac20 UNII-3	17.53	17.44	0.09	3



Conclusion:

Conducted Power test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level spot check are shown within expected level compliant to limit line.

We are using power measurements from the original parent model reports to list on the grant.

The same DFS detection is used in the variant. Hence, there is no spot check data for DFS.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v02r01 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



3 Test Configuration of Equipment Under Test

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

3.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5180-5240 MHz U-NII-1	36	5180	44	5220
	40	5200	48	5240

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	56	5280	64	5320

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5500-5700MHz U-NII-2C	100	5500	116	5580
	104	5520	132	5660
	108	5540	136	5680
	112	5560	140	5700

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	161	5805
	153	5765	165	5825
	157	5785	-	-

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	120	5600	128	5640
	124	5620	-	-

3.2 Test Mode

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

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Cover 11ac VHT20)	MCS0

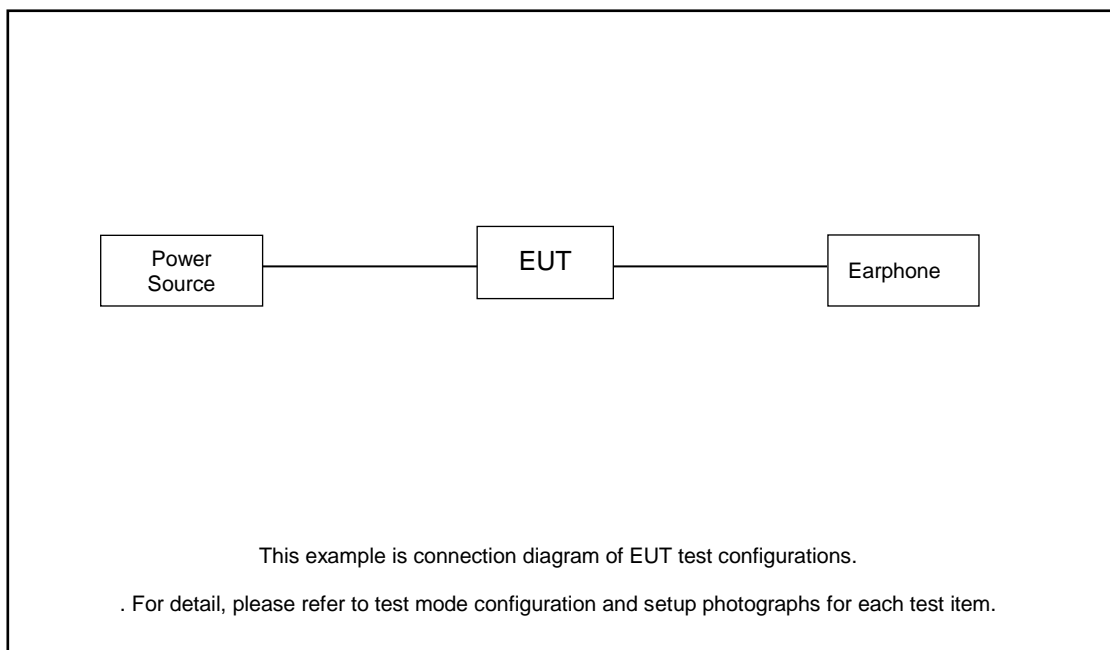
Remark: For Radiated Test Cases, The tests were performance with Adapter 1, Battery 1, Earphone 1 and USB Cable 1

Co-location mode
Wifi 5G_802.11n HT20_CH165_5825MHz + GSM 850 Link

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165

3.3 Connection Diagram of Test System

Radiated Emission:





3.4 EUT Operation Test Setup

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



4 Test Result

4.1 Maximum Conducted Output Power Measurement

4.1.1 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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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.

4.1.2 Measuring Instruments

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

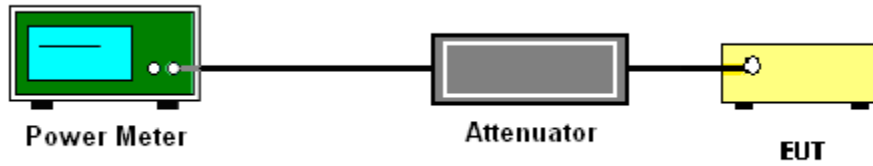
4.1.3 Test Procedures

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.

4.1.4 Test Setup



4.1.5 Test Result of Maximum Conducted Output Power

Please refer to Spot Check Verification Data Section.



4.2 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

4.2.1 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 -27 dBm/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 5470-5600 MHz and 5650-5725 MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) For transmitters operating in the 5.725-5.85 GHz band:
15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



(3) 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

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

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

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

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

4.2.2 Measuring Instruments

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

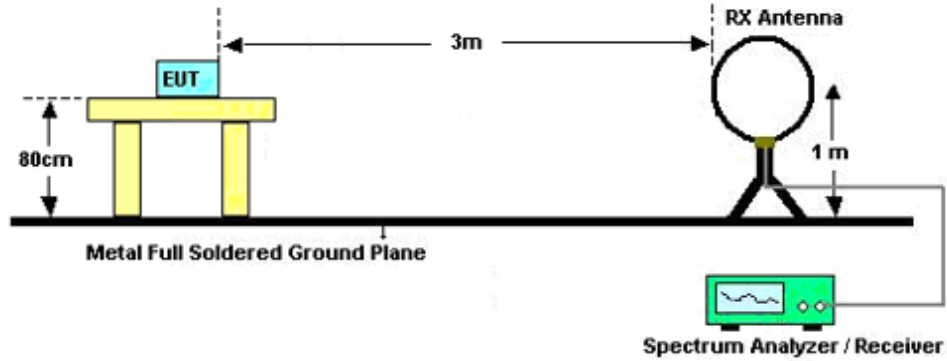


4.2.3 Test Procedures

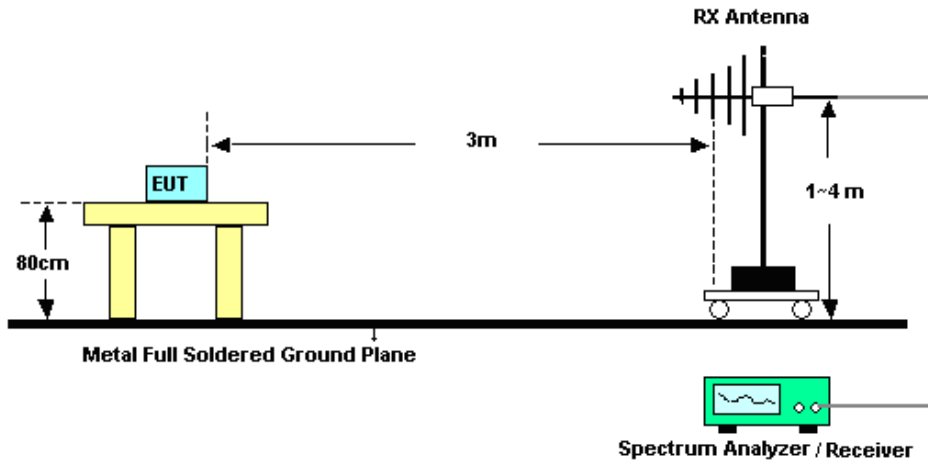
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak 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 average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

4.2.4 Test Setup

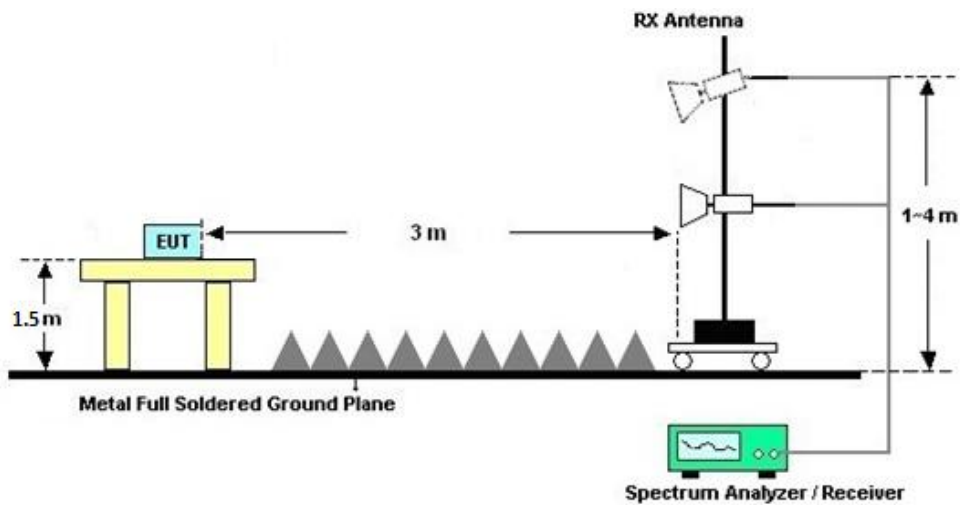
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

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

4.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

4.2.7 Duty Cycle

Please refer to Appendix B.

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

Please refer to Appendix A.



4.3 Antenna Requirements

4.3.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2), 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.

4.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

4.3.3 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.



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Nov. 02, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Nov. 02, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Aug. 12, 2023	Nov. 28, 2023	Aug. 11, 2024	Radiation (03CH07-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218642	1GHz~18GHz	Apr. 06, 2023	Nov. 28, 2023	Apr. 05, 2024	Radiation (03CH07-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 05, 2023	Nov. 28, 2023	Jan. 04, 2024	Radiation (03CH07-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz-18Ghz	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
Amplifier	EM	EM18G40GGA	060851	18~40GHz	Jan. 05, 2023	Nov. 28, 2023	Jan. 04, 2024	Radiation (03CH07-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Nov. 28, 2023	NCR	Radiation (03CH07-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Nov. 28, 2023	NCR	Radiation (03CH07-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Nov. 28, 2023	NCR	Radiation (03CH07-KS)

NCR: No Calibration Required



6 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 Power	±0.46 dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3 dB
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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))	6.20 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.86 dB
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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))	5.24 dB
---	---------

----- THE END -----



Appendix A. Radiated Spurious Emission

Test Engineer :	Zhao hongliang	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-3	5.725-5.85	802.11a	149	5745	6Mbps	-
Mode 20	U-NII-3	5.725-5.85	802.11a	157	5785	6Mbps	-
Mode 21	U-NII-3	5.725-5.85	802.11a	165	5825	6Mbps	-
Mode 22	U-NII-3	5.725-5.85	802.11n HT20	149	5745	MCS0	-
Mode 23	U-NII-3	5.725-5.85	802.11n HT20	157	5785	MCS0	-
Mode 24	U-NII-3	5.725-5.85	802.11n HT20	165	5825	MCS0	-



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	5149.90	49.75	54.00	-4.25	V	AVERAGE	Pass	Band Edge
	802.11a	36	10360.00	46.27	68.20	-21.93	V	PEAK	Pass	Harmonic
2	802.11a	44	-	-	-	-	-	-	-	Band Edge
	802.11a	44	10440.00	46.37	68.20	-21.83	V	PEAK	Pass	Harmonic
3	802.11a	48	-	-	-	-	-	-	-	Band Edge
	802.11a	48	10480.00	45.98	68.20	-22.22	V	PEAK	Pass	Harmonic
4	802.11a	52	-	-	-	-	-	-	-	Band Edge
	802.11a	52	10520.00	45.94	68.20	-22.26	V	PEAK	Pass	Harmonic
5	802.11a	60	-	-	-	-	-	-	-	Band Edge
	802.11a	60	10600.00	45.43	68.20	-22.77	V	PEAK	Pass	Harmonic
6	802.11a	64	5350.00	47.84	54.00	-6.16	V	AVERAGE	Pass	Band Edge
	802.11a	64	10640.00	44.55	74.00	-29.45	V	PEAK	Pass	Harmonic
7	802.11a	100	5469.36	60.76	68.20	-7.44	V	PEAK	Pass	Band Edge
	802.11a	100	11000.00	44.35	74.00	-29.65	H	PEAK	Pass	Harmonic
8	802.11a	116	-	-	-	-	-	-	-	Band Edge
	802.11a	116	11160.00	44.93	74.00	-29.07	V	PEAK	Pass	Harmonic
9	802.11a	140	5725.03	64.75	68.20	-3.45	V	PEAK	Pass	Band Edge
	802.11a	140	11400.00	44.70	74.00	-29.30	H	PEAK	Pass	Harmonic
10	802.11n HT20	36	5149.76	50.81	54.00	-3.19	V	AVERAGE	Pass	Band Edge
	802.11n HT20	36	10360.00	44.08	68.20	-24.12	V	PEAK	Pass	Harmonic
11	802.11n HT20	44	-	-	-	-	-	-	-	Band Edge
	802.11n HT20	44	10440.00	44.96	68.20	-23.24	V	PEAK	Pass	Harmonic
12	802.11n HT20	48	-	-	-	-	-	-	-	Band Edge
	802.11n HT20	48	10480.00	44.91	68.20	-23.29	V	PEAK	Pass	Harmonic
13	802.11n HT20	52	-	-	-	-	-	-	-	Band Edge
	802.11n HT20	52	10520.00	46.39	68.20	-21.81	V	PEAK	Pass	Harmonic
14	802.11n HT20	60	-	-	-	-	-	-	-	Band Edge
	802.11n HT20	60	10600.00	45.16	68.20	-23.04	V	PEAK	Pass	Harmonic
15	802.11n HT20	64	5350.20	48.50	54.00	-5.50	V	AVERAGE	Pass	Band Edge
	802.11n HT20	64	10640.00	44.59	74.00	-29.41	H	PEAK	Pass	Harmonic
16	802.11n HT20	100	5469.20	62.30	68.20	-5.90	V	PEAK	Pass	Band Edge
	802.11n HT20	100	11000.00	44.02	74.00	-29.98	H	PEAK	Pass	Harmonic
17	802.11n HT20	116	-	-	-	-	-	-	-	Band Edge
	802.11n HT20	116	11160.00	44.21	74.00	-29.79	V	PEAK	Pass	Harmonic



Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
18	802.11n HT20	140	4558.00	50.42	54.00	-3.58	V	Average	Pass	Band Edge
	802.11n HT20	140	11400.00	45.24	74.00	-28.76	H	PEAK	Pass	Harmonic
-	802.11n HT20	36	32.91	25.50	40.00	-14.50	V	PEAK	Pass	LF
19	802.11a	149	4600.00	50.26	54.00	-3.74	V	Average	Pass	Band Edge
	802.11a	149	11490.00	44.70	74.00	-29.30	H	PEAK	Pass	Harmonic
20	802.11a	157	-	-	-	-	-	-	-	Band Edge
	802.11a	157	11570.00	44.94	74.00	-29.06	V	PEAK	Pass	Harmonic
21	802.11a	165	4660.00	50.10	54.00	-3.90	V	Average	Pass	Band Edge
	802.11a	165	11650.00	44.74	74.00	-29.26	V	PEAK	Pass	Harmonic
22	802.11n HT20	149	4600.00	50.56	54.00	-3.44	V	Average	Pass	Band Edge
	802.11n HT20	149	11490.00	44.83	74.00	-29.17	V	PEAK	Pass	Harmonic
23	802.11n HT20	157	-	-	-	-	-	-	-	Band Edge
	802.11n HT20	157	11570.00	46.32	74.00	-27.68	V	PEAK	Pass	Harmonic
24	802.11n HT20	165	4660.00	50.84	54.00	-3.16	V	Average	Pass	Band Edge
	802.11n HT20	165	11650.00	44.70	74.00	-29.30	V	PEAK	Pass	Harmonic
-	802.11n HT20	165	32.91	25.50	40.00	-14.50	V	PEAK	Pass	LF

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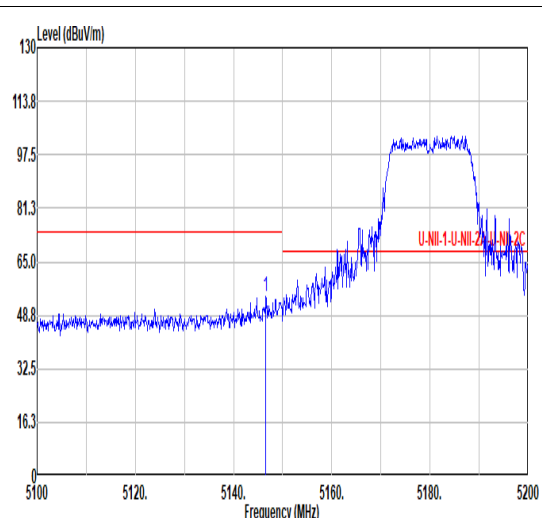
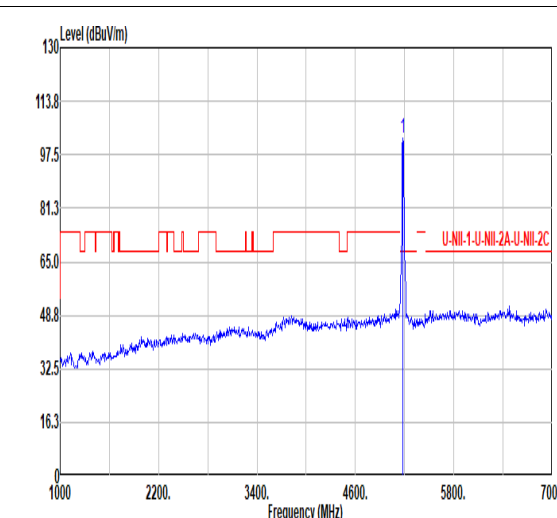
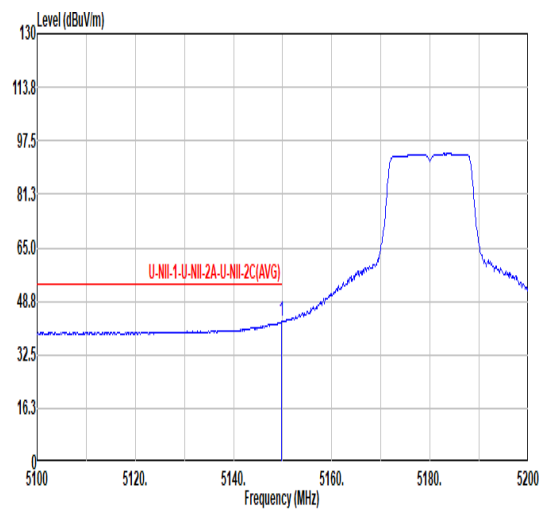
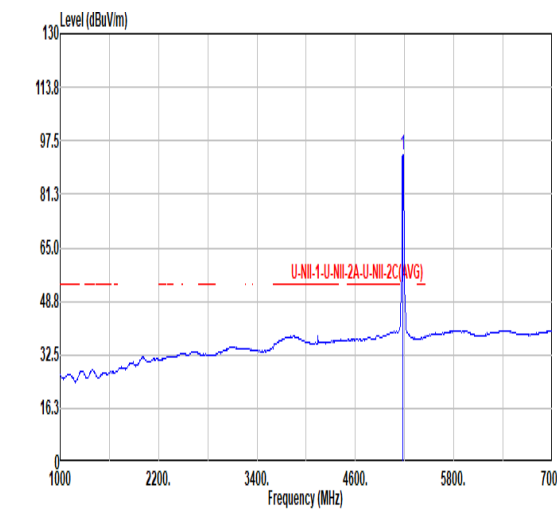
Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 25	U-NII-3	5.725-5.85	-	802.11n HT20	165	5825	MCS0	-	-
	Part 22H GSM 850								

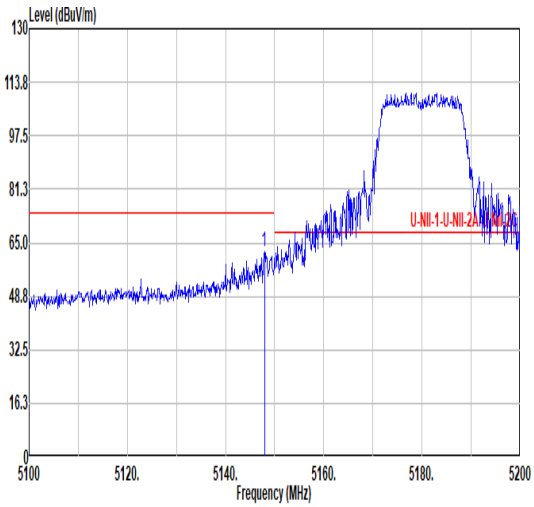
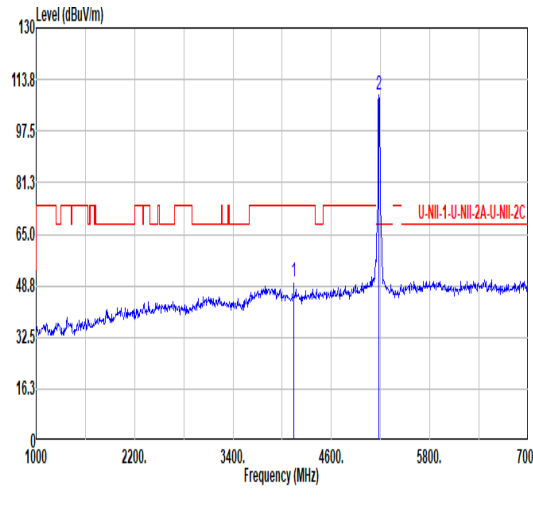
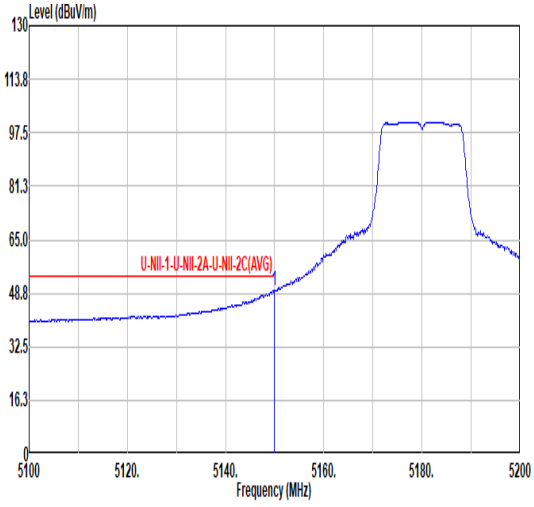
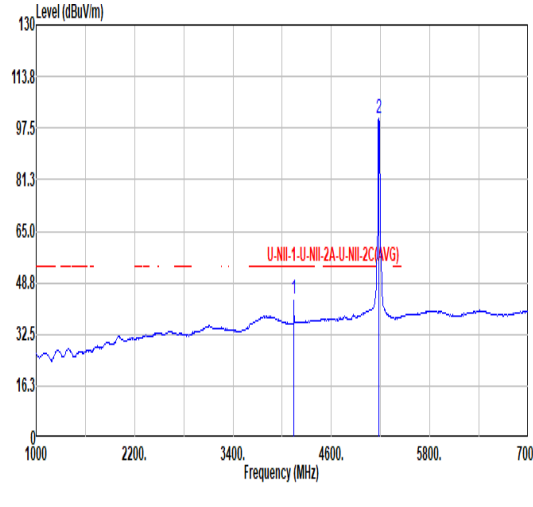
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
25	802.11n HT20	165	4660.00	50.68	54.00	-3.32	V	Average	Pass	Band Edge
	802.11n HT20	165	17475.00	48.18	68.30	-20.12	V	PEAK	Pass	Harmonic



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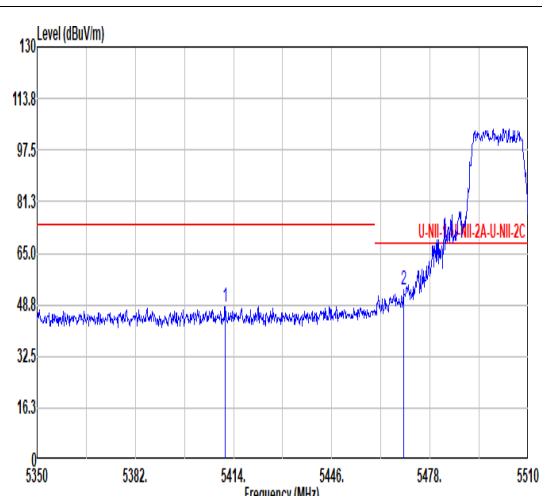
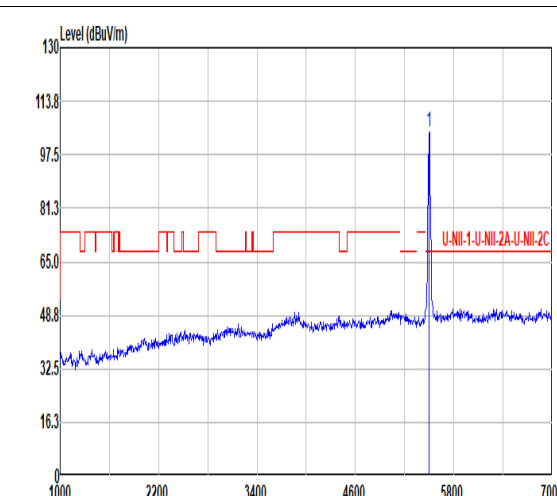
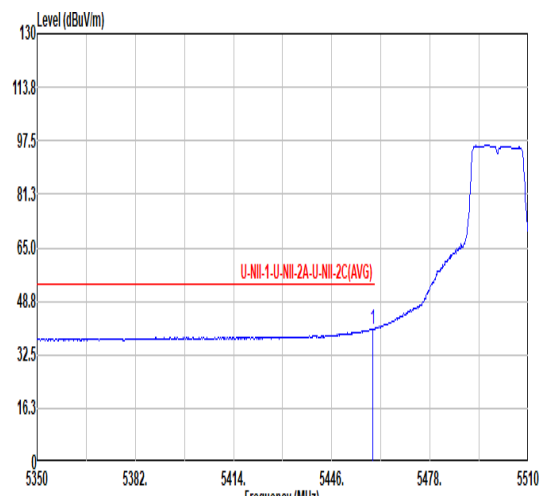
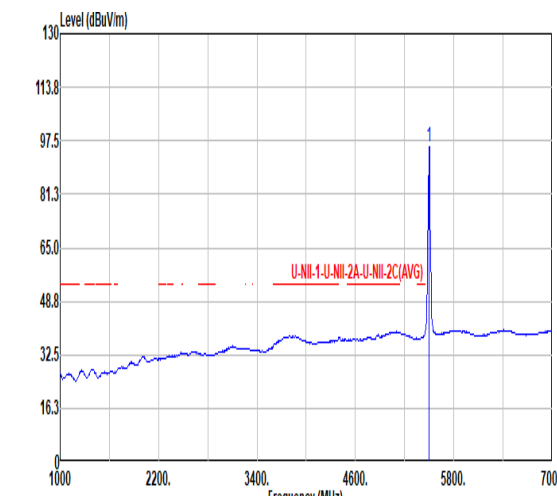


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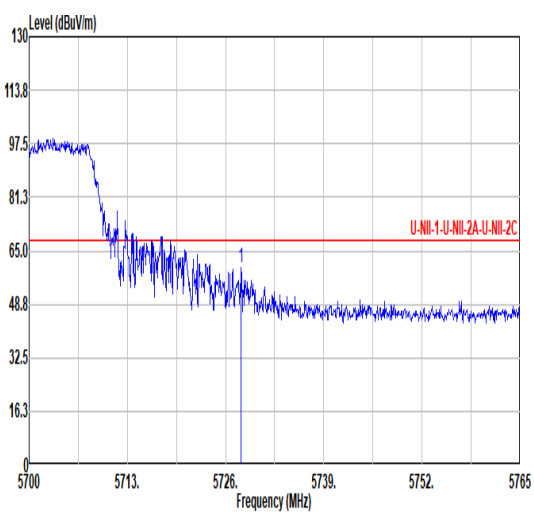
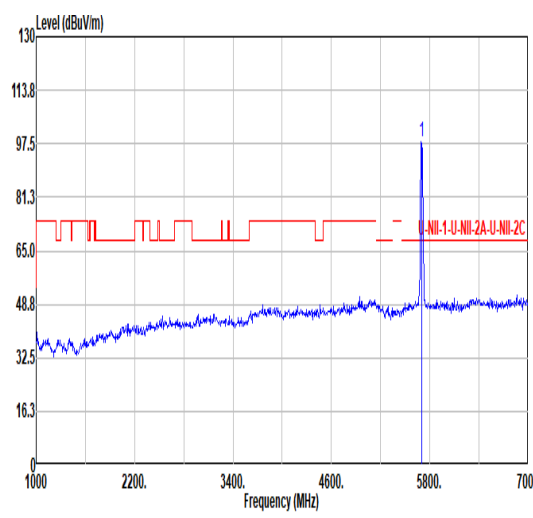
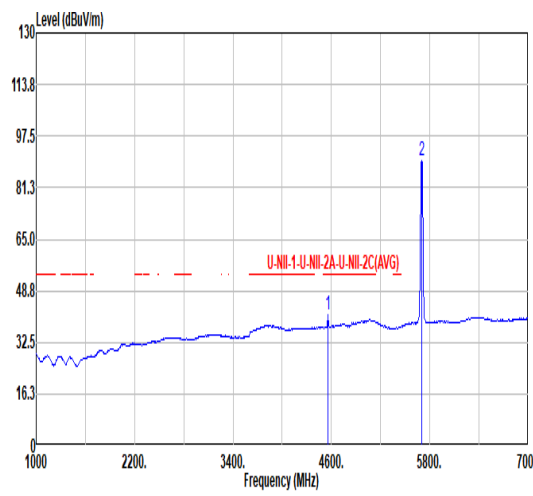


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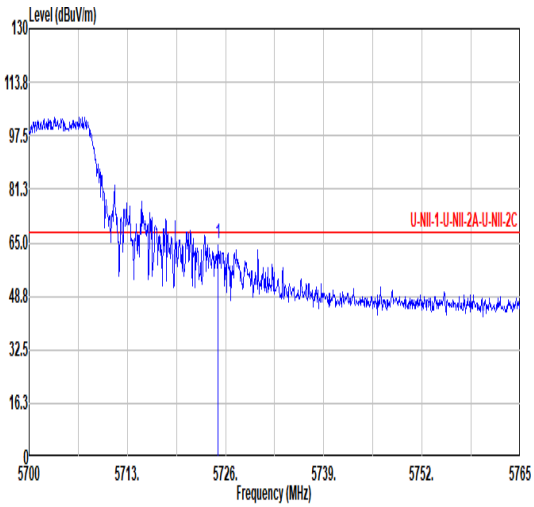
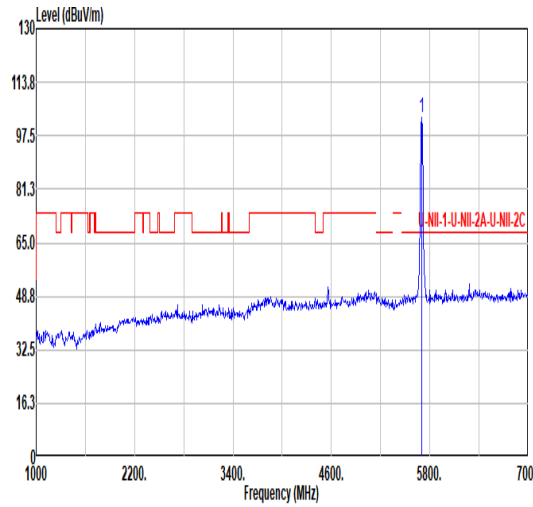
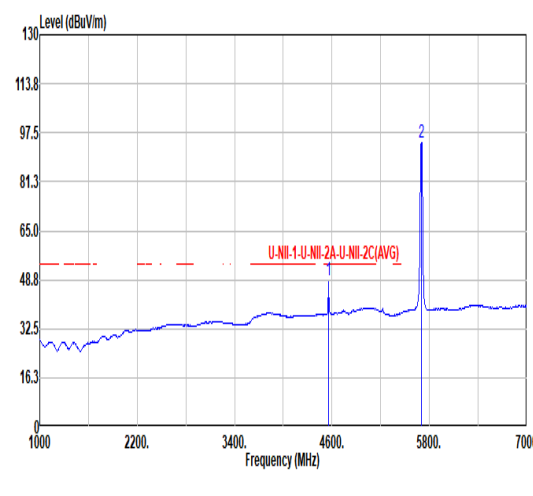


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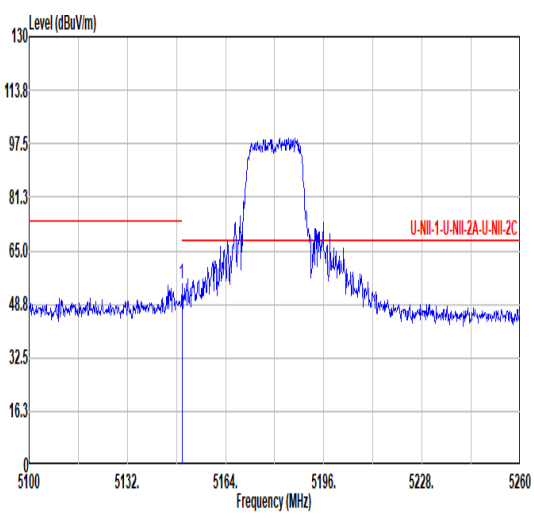
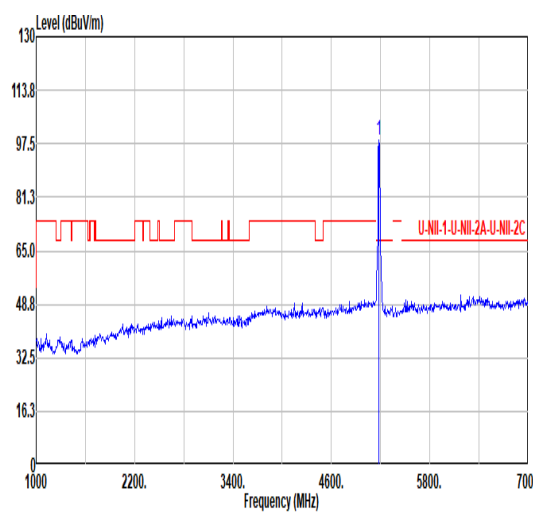
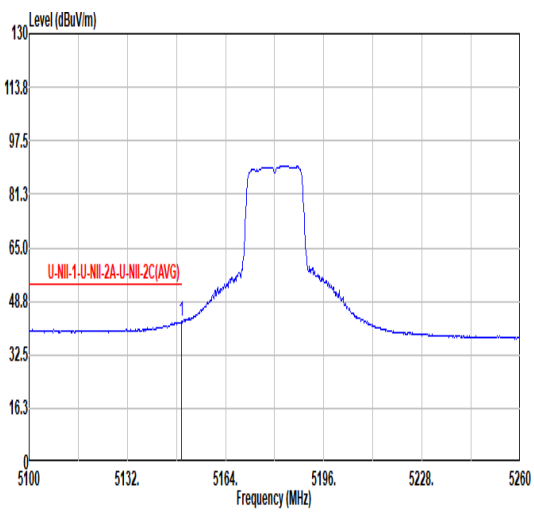
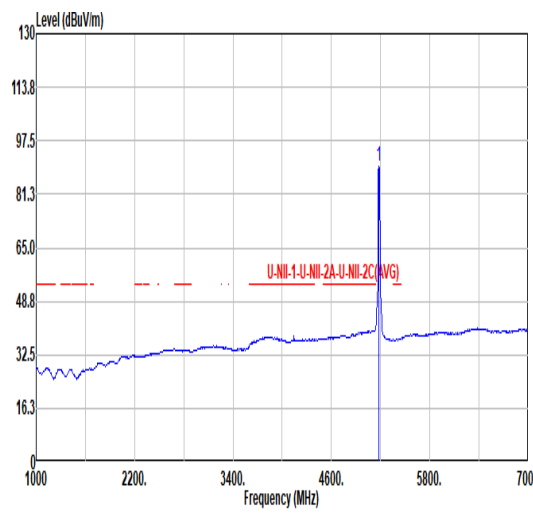


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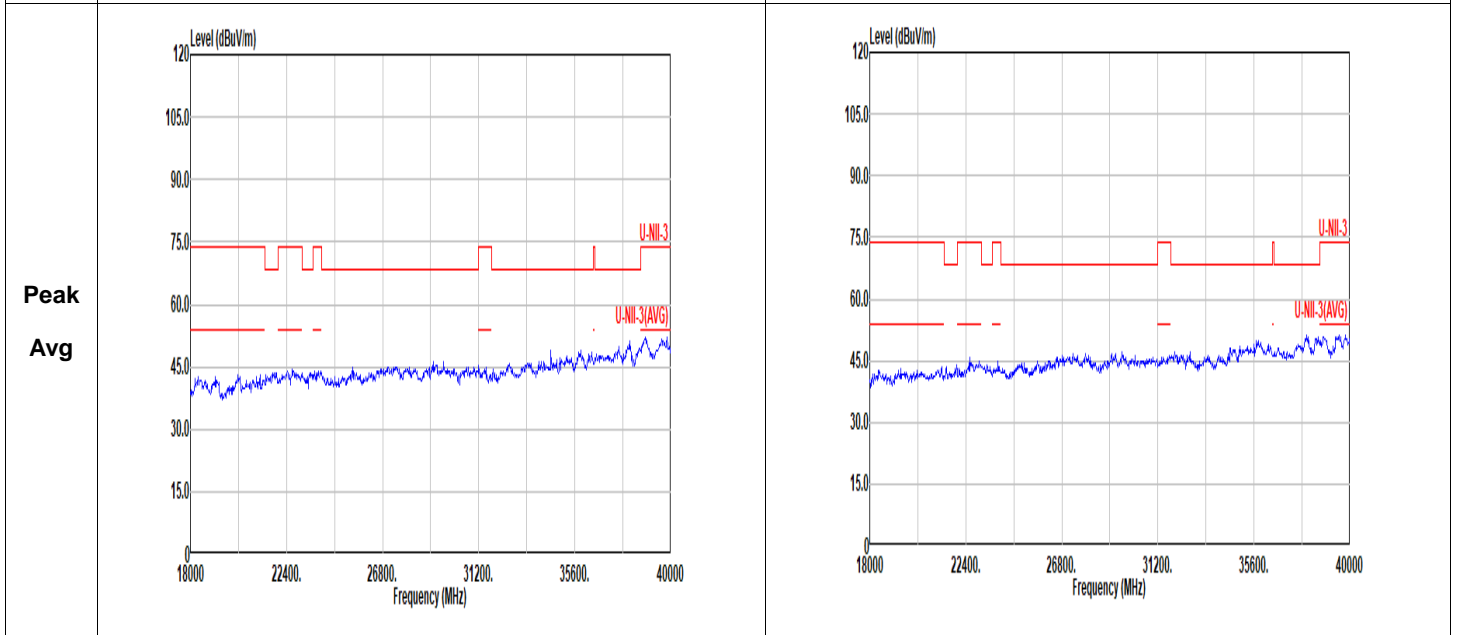
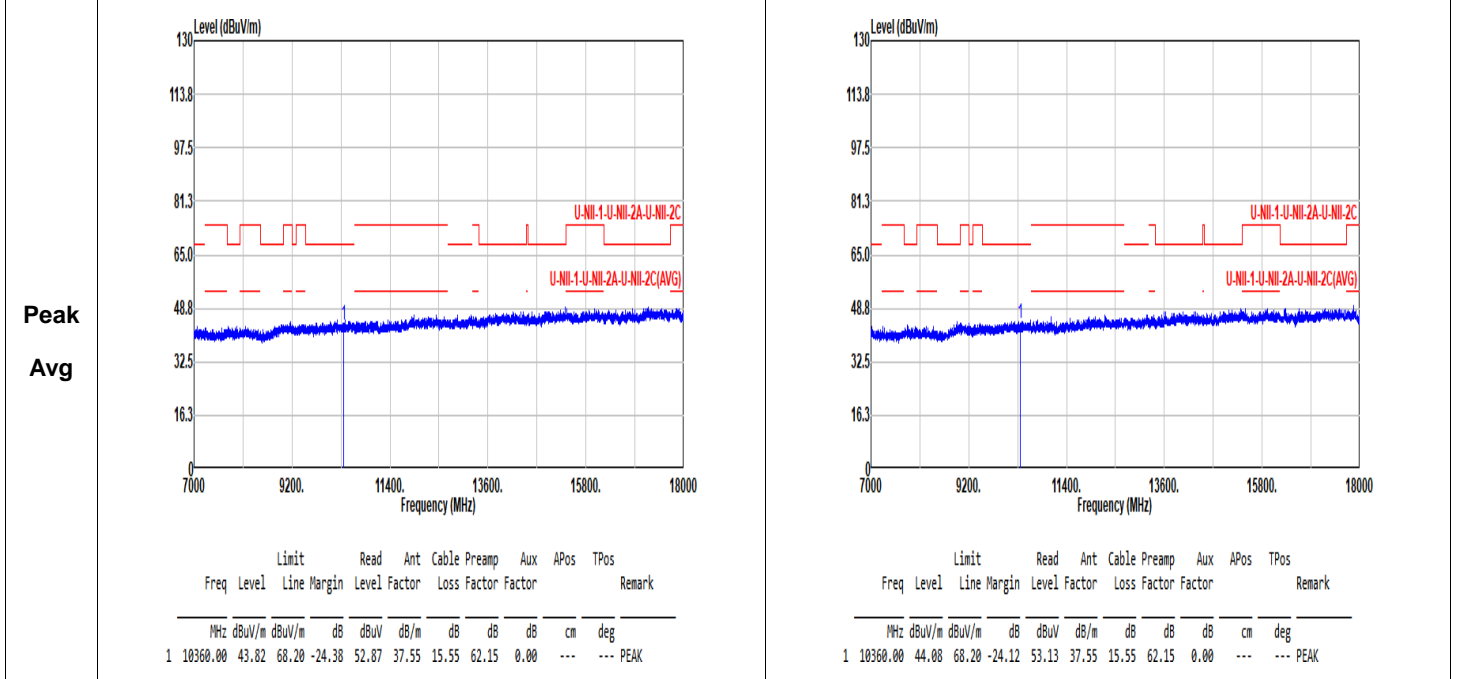


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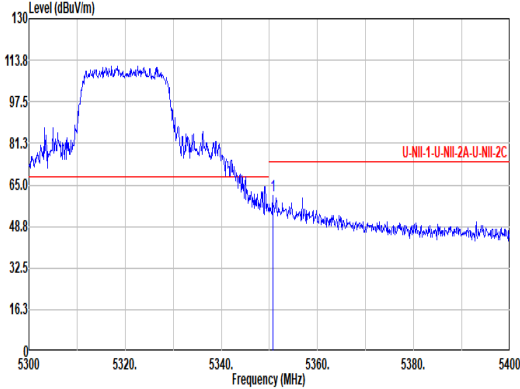
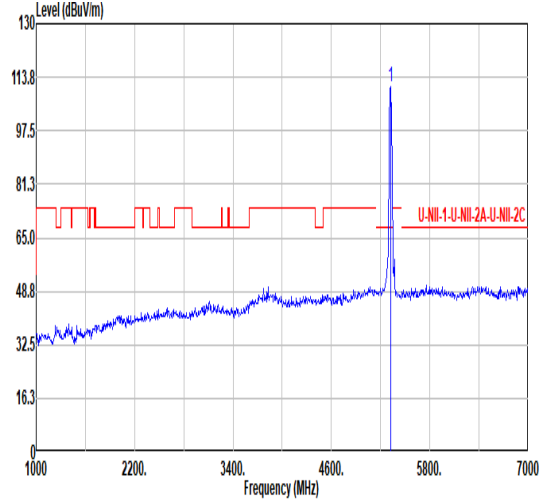
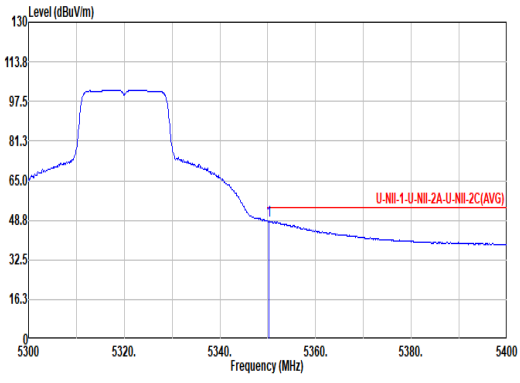
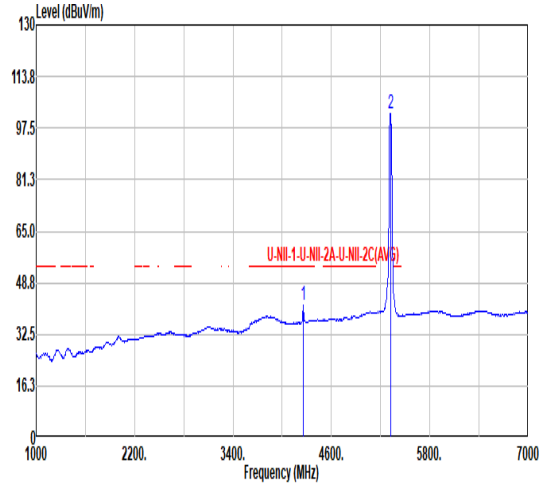


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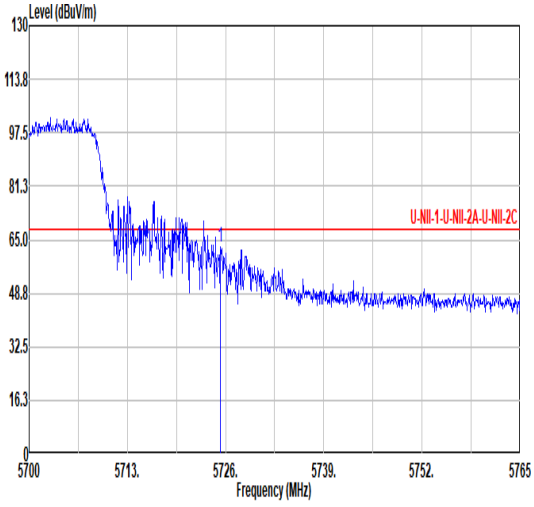
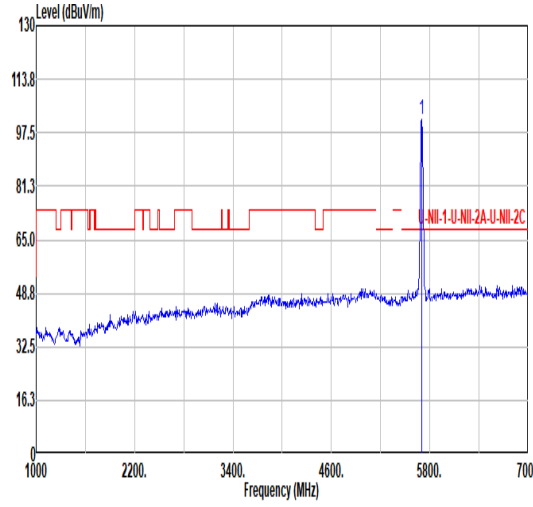
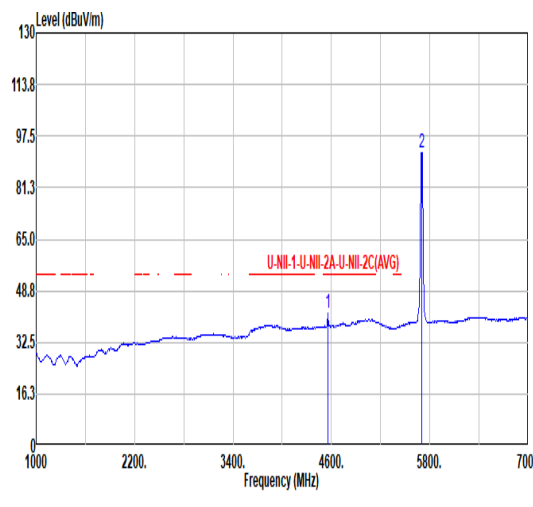


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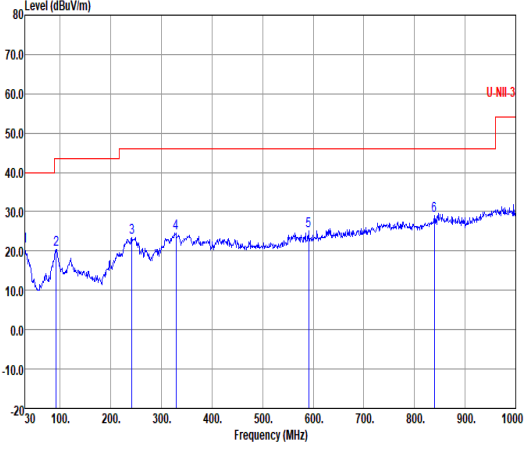
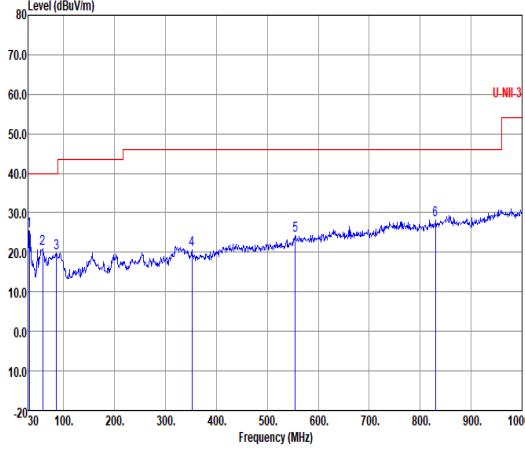


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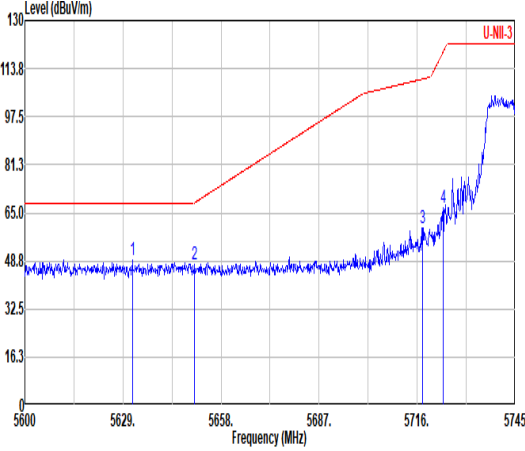
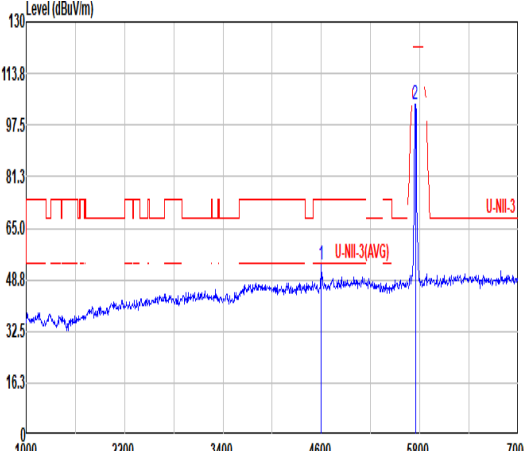
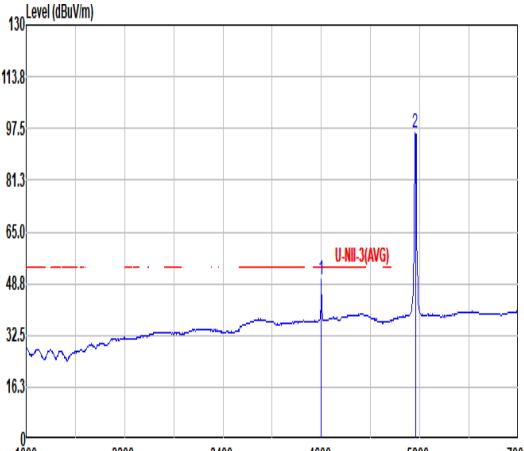


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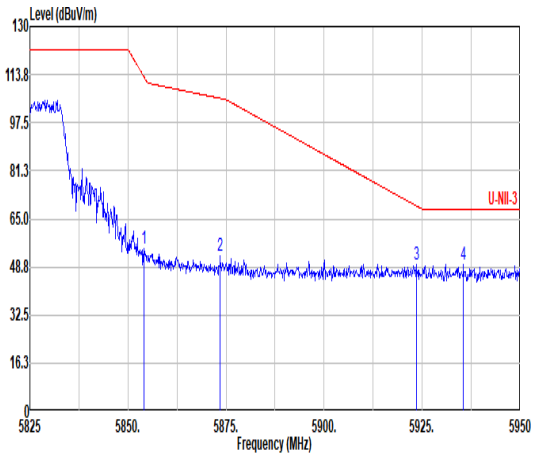
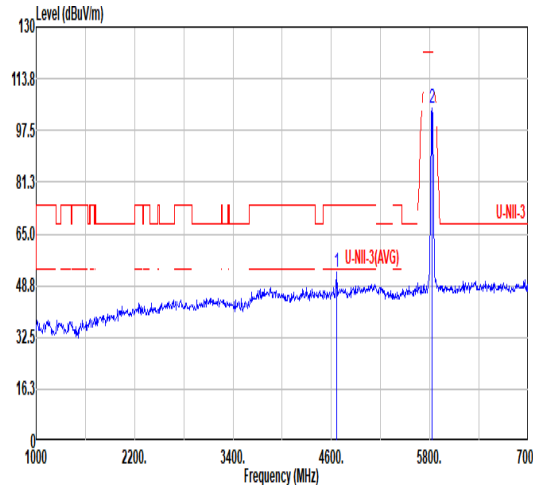
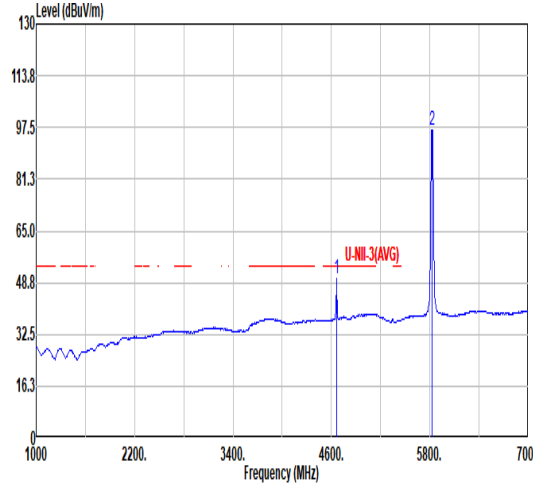


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2 5875.00	49.27	105.30	-56.03	38.98	35.08	11.44	36.23	0.00	100	119 PEAK																																																																																																							
3 5922.63	49.18	70.05	-20.87	38.71	35.22	11.47	36.22	0.00	100	119 PEAK																																																																																																							
4 5945.13	50.75	68.30	-17.55	40.23	35.25	11.48	36.21	0.00	100	119 PEAK																																																																																																							
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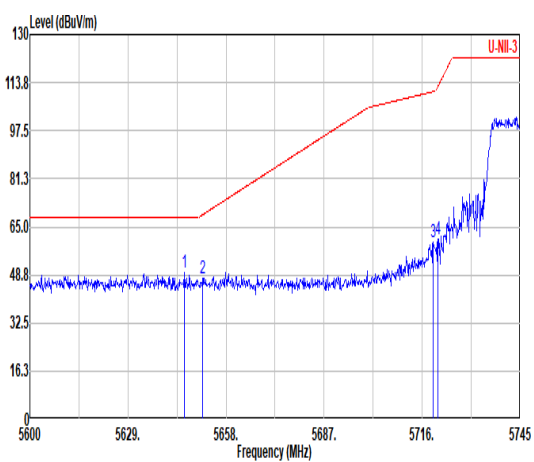
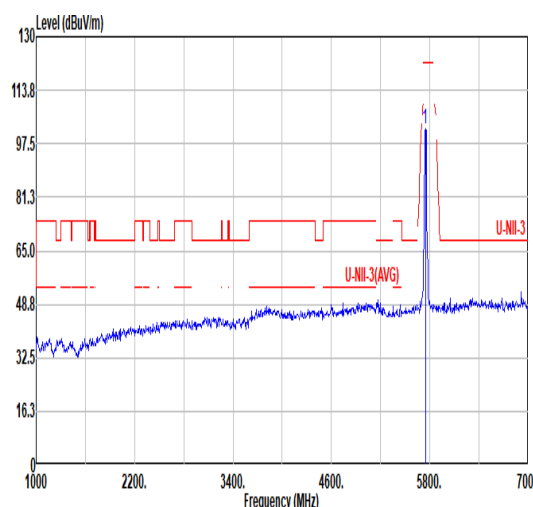
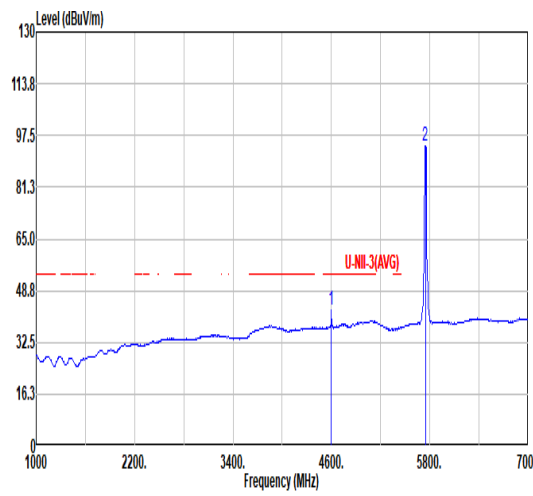


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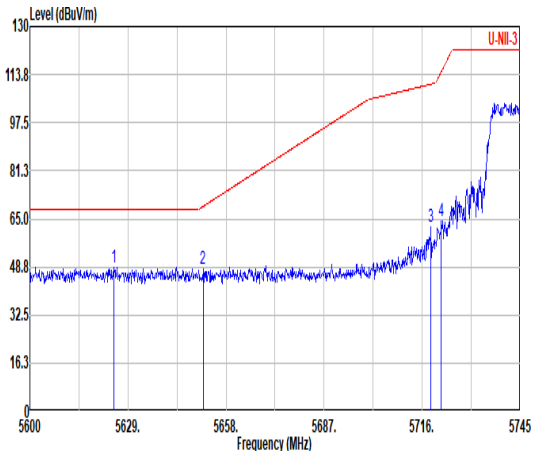
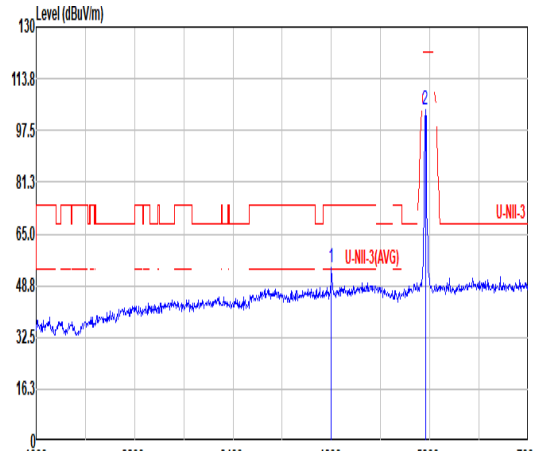
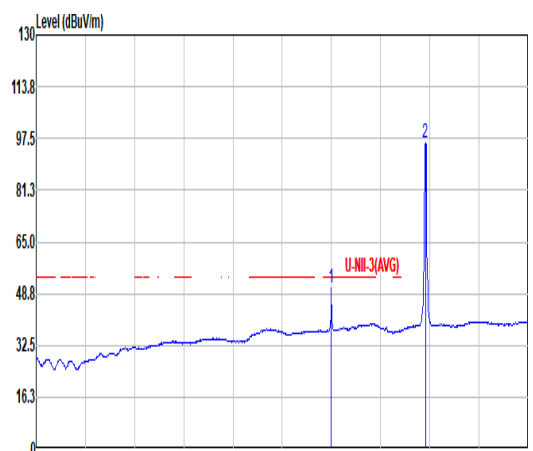


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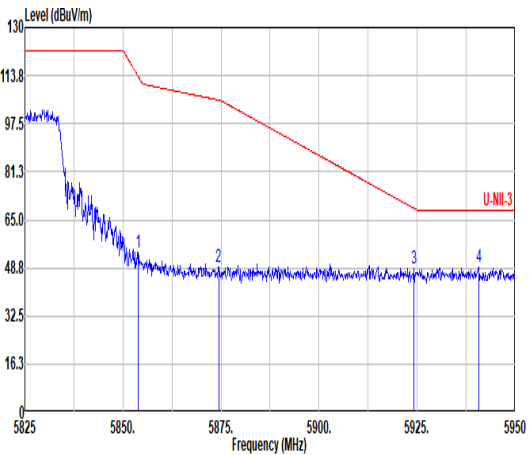
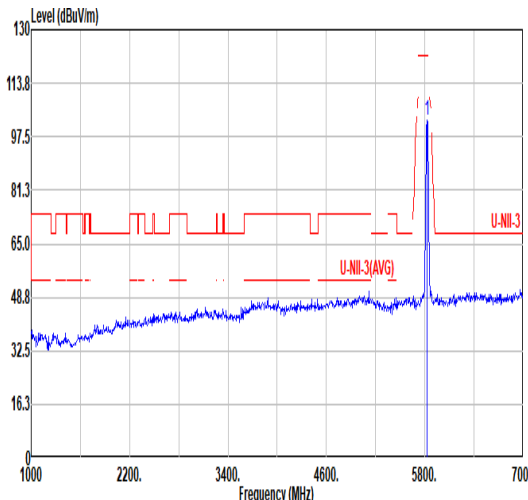
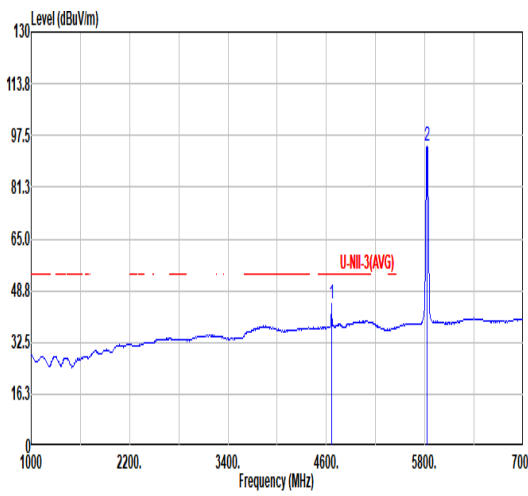


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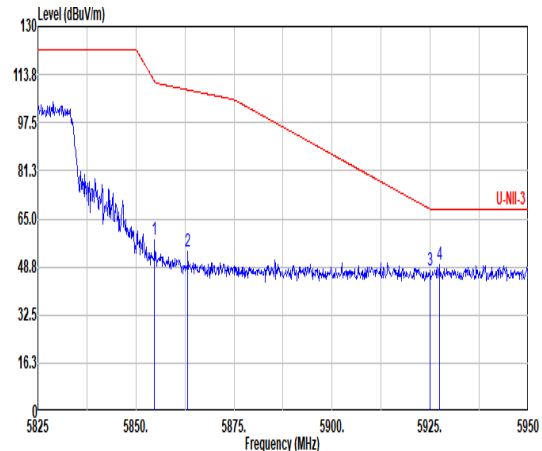
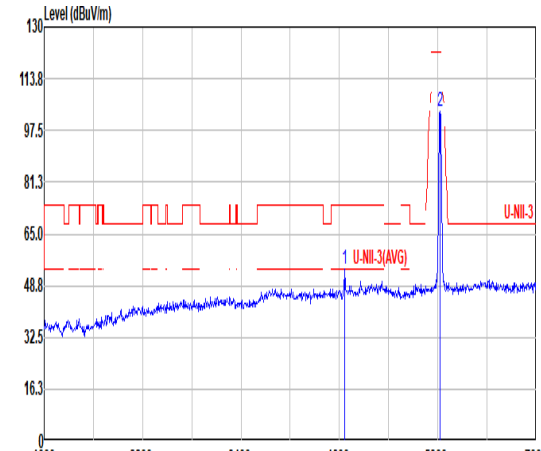
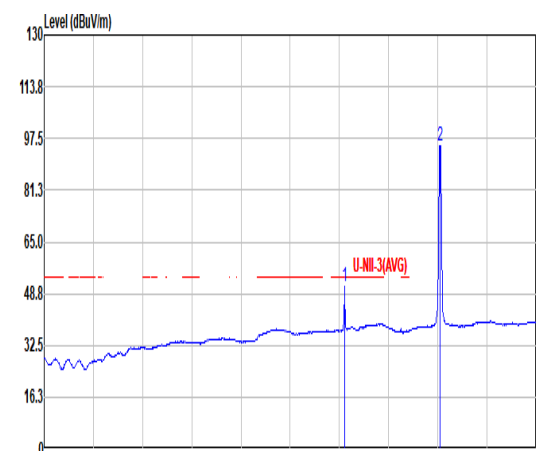


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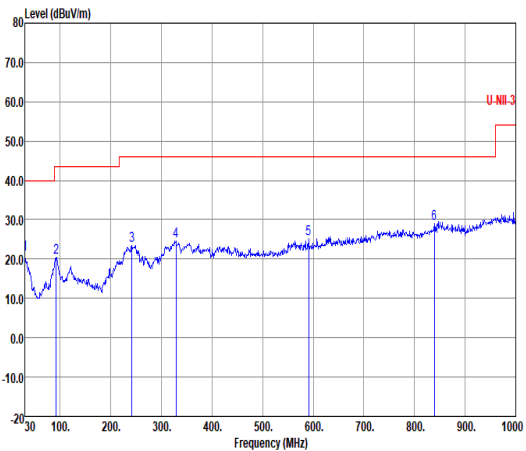
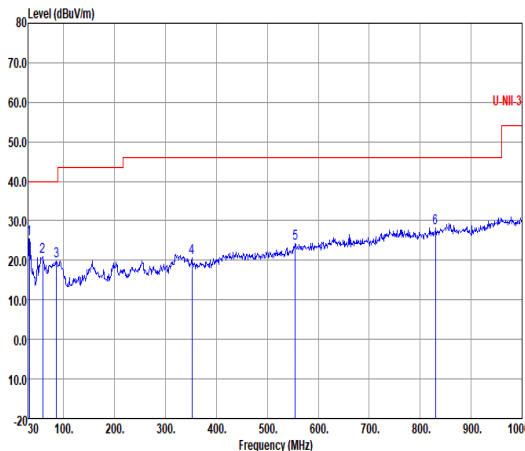


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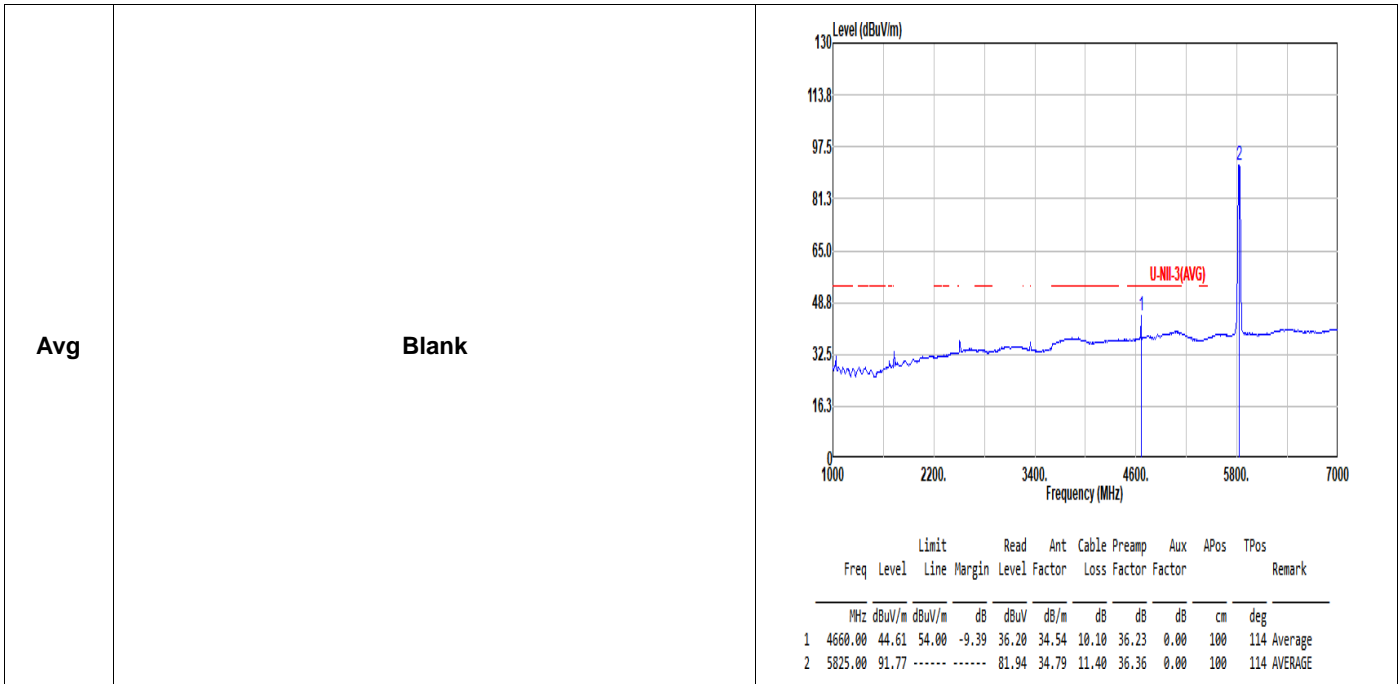


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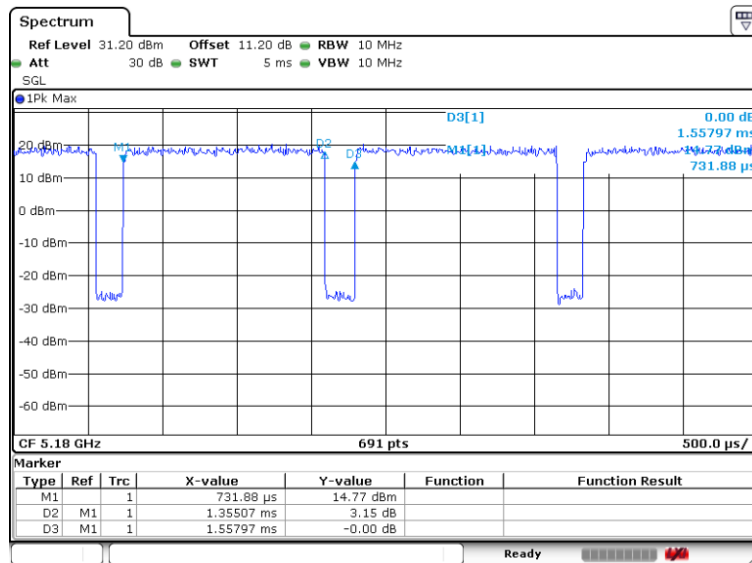
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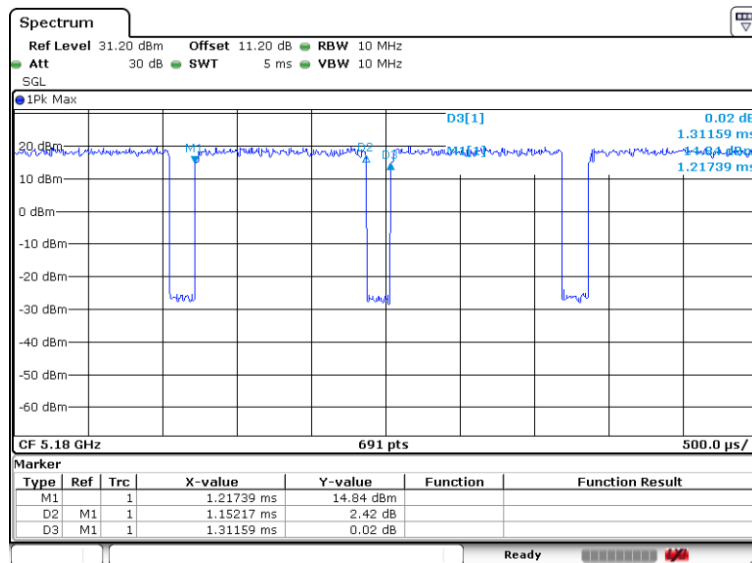
Appendix B. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	86.98	1.355	0.738	0.75kHz
802.11n HT20	87.85	1.152	0.868	1kHz

802.11a



802.11n HT20





Appendix D. Reference Report

Please refer to Sporton report number FR381717D & FZ381717 which issued separately.