



Regulatory Test Report

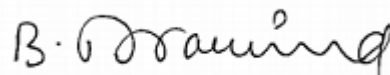
Prepared for Harman International Industries, Inc.

This report presents detailed information on

R1 INT NA 3B HW4

Simultaneous Transmission

Prepared by



Aravind Buddana

Engineer II

Approved by



Jason Kanakry

General Manager

Issue date: 01/17/2025

Report No: J23133-R1 INT NA 3B HW4-

Simultaneous Transmission-TR5 v2

This test result relates only to the described test object.

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The test is traceable to national standard or related international standard

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1. Test Request Information

Test Request #:	7700206789
Test Requested By:	Pranav Patel Harman International Industries, Inc. 30001 Cabot Drive, Novi, MI 48377
Test item Description:	R1 INT NA 3B HW4
Part Number:	P68581660ZZ
DUT Sample Number:	J23133#2 NA 3B
FVIN:	FCA-MY24.MNL-OD.3426
Hardware Version of DUT:	N/A
Software Version of DUT:	N/A
Component Category of DUT:	N/A
FCC ID:	2AHPN-BE2878
ISED ID:	6434C-BE2878
Type of Test:	FCC/ISED Certification
Test Method:	CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 3, ISED Canada RSS-Gen Issue 5, FCC KDB 558074 D01 15.247 Measurement Guidance v05 and ANSI C63.10-2013 CFR Title 47 FCC Part 15.407, FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI C63.10-2013
Deviations from standard:	None
Approved Test Plan Number:	N/A
Test Plan Revision:	N/A
Date Test Sample Received:	06-26-2024
Date Test Started:	10-07-2024
Date Test Finished:	10-16-2024

2. Test Laboratory Information

Location of Test Lab:	The radiated and conducted emissions test sites are located at Bureau Veritas 815 N. Opdyke Rd #100, Auburn Hills, MI 48326, Phone: +1-248-836-4700
Key Contact:	Jason Kanakry (General Manager) Jason.Kanakry@BureauVeritas.com Phone: +1-248-836-4747
Laboratory Accreditations:	BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
ISO/IEC 17025:2017:	5678.01
FCC Test Site Number:	US1278 (242530)
IC Test Site Number:	US0229 (26240)

3. Statement of Conformity

RSS-GEN	RSS 247	Part 15	Comments
6.4		15.15(b)	There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.
		15.19	The label is shown in the label exhibit.
		15.21	Information to the user is shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
3.2		15.31	The EUT was tested in accordance with the measurement standards in this section.
6.13.2		15.33	Frequency range was investigated according to this section, unless noted in specific rule section under which the equipment operates.
6.13.1		15.35	The EUT emissions were measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
6.8		15.203	EUT employs integrated PCB antenna with Bluetooth at -1.24dBi WLAN 2.4G at -0.12dBi gain. WLAN 5G UNII-1 at 2.67dBi and UNII-3 at 1.52dBi
8.10		15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209 or RSS-Gen as applicable
8.8		15.207	N/A. EUT is vehicle battery powered only.

4. Radiated Testing

4.1 Test Summary

This test report supports an application for **R1 INT NA 3B HW4** Testing pursuant to

CFR Title 47 FCC Part 15.247, ISSED Canada RSS-247 Issue 3, ISSED Canada RSS-Gen Issue 5, FCC KDB 558074 D01 15.247

Measurement Guidance v05 and ANSI C63.10-2013.

CFR Title 47 FCC Part 15.407, FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and ANSI C63.10-2013

Bluetooth Classic					
Details		Description			
Frequency Range (MHz)		2402 – 2483.5			
Modulations Supported		GFSK, $\pi/4$ DQPSK, 8DPSK			
Number of Channels		79			
DUT S/N		J23133#2 NA 3B			
DUT Model		R1 INT NA 3B HW4			
DUT Operating Mode		Bluetooth Test Mode			
DUT Operating Voltage		12V			
Tested Modulation		3-DH1			
Tested Channels		0			
Start Date		10-07-2024			
End Date		10-16-2024			
Tested By		AP/AB			
Temperature/Humidity		Temperature:24.5°C Humidity:.37.5%			
Comments		Band reject filters in the range of 2.4 & 5 GHz are used for spurious measurements.			
Antenna	Frequency Range	Polarization	Result Over/Under Limit		Notes
Log Periodic	30MHz-1GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√
Horn	1GHz-18GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√

Notes: √ meets the requirements of the acceptance criteria.

WLAN 2.4GHz					
Details		Description			
Frequency Range (MHz)		2400 – 2483.5			
WLAN Modes Supported		802.11b, 802.11g, 802.11n			
Number of Channels		11			
DUT S/N		J23133#2 NA 3B			
DUT Model		R1 INT NA 3B HW4			
DUT Operating Mode		WLAN Test Mode			
DUT Operating Voltage		12V			
Tested Modes		802.11b			
Tested Channels		6			
Comment		Meets Requirements			
Start Date		10-07-2024			
End Date		10-16-2024			
Tested By		AP/AB			
Temperature/Humidity		Temperature:24.5°C Humidity:.37.5%			
Comments		Band reject filters in the range of 2.4 & 5 GHz are used for spurious measurements.			
Antenna	Frequency Range	Polarization	Result Over/Under Limit		Notes
Log Periodic	30MHz-1GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√
Horn	1GHz-18GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√

Notes: √ meets the requirements of the acceptance criteria.

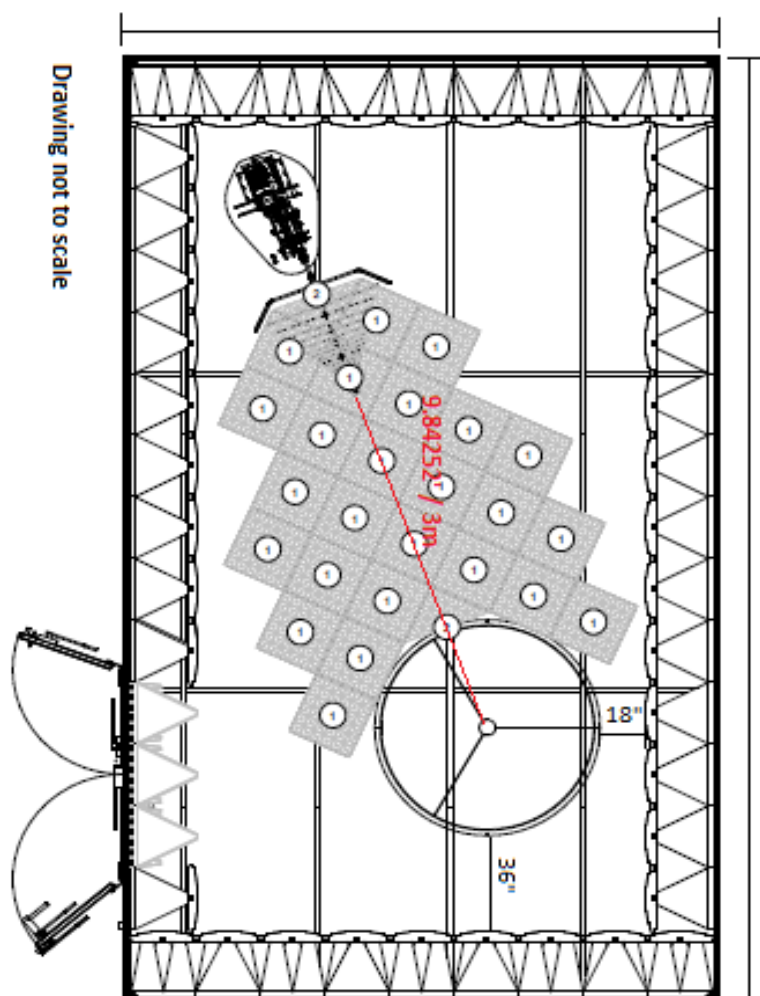
WLAN 5GHz					
Details		Description			
Frequency Range (MHz)		5180 – 5825			
WLAN Modes Supported		802.11a, 802.11n, 802.11ac			
Number of Channels		12			
DUT S/N		J23133#2 NA 3B			
DUT Model		R1 INT NA 3B HW4			
DUT Operating Mode		WLAN Test Mode			
DUT Operating Voltage		12V			
Tested Modes		802.11n			
Tested Channels		165			
Start Date		10-07-2024			
End Date		10-16-2024			
Tested By		AP/AB			
Temperature/Humidity		Temperature:24.5°C Humidity:.37.5%			
Comments		Band reject filters in the range of 2.4 & 5 GHz are used for spurious measurements.			
Antenna	Frequency Range	Polarization	Result Over/Under Limit		Notes
Log Periodic	30MHz-1GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√
Horn	1GHz-18GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√
Horn	18GHz-40GHz	Horizontal	☐ Over	☒ Under	√
		Vertical	☐ Over	☒ Under	√

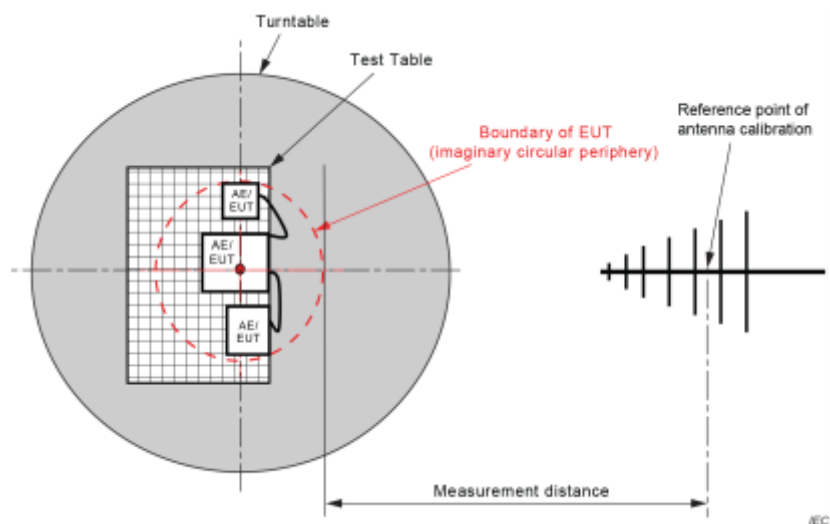
4.2 Test Setup

Semi-Anechoic Chamber Test Site-3 meter

Chamber Location	815 N Opdyke Rd Auburn Hills, Michigan 48326
Chamber Manufacturer:	ETS-Lindgren
Chamber Type	Semi-Anechoic
Model	FACT™ 3-2.0 Plus
Chamber Dimensions (L x W x H)	18'x18'x30'
Quiet Zone Diameter	2.0 meters
Quiet Zone Test Heights	1 & 2 meters (front only)
Test Distance	3.0 meters
Test Frequency Range	1-40 GHz
Measured Performance	4.87 dB Site sVSWR

Chamber Dimensions





4.3 Test Equipment Used

ID #	Equipment	Manufacturer	Model #	Serial #	Cal Due
BVD0217	Receiver 2Hz-44GHz	Rohde & Schwarz	ESW44	101871	4/21/2025
BVD0118	Antenna Mast Position Controller	ETS	7006-001	00214778/00214648	N/A
BVD0111	3 Meter Anechoic Chamber	ETS	N/A	N/A	N/A
BVD0247	Turn Table	ETS	920250	N/A	N/A
BVD0323	Foam Test Table For 3 Meter Chamber	ETS-Lindgren	LDT-1.5	N/A	N/A
BVD0069	Bore Sight Tower	ETS	2171B	226732	N/A
BVD0312	Optima 12V Blue top Marine battery	Optima	D34M	N/A	N/A
BVD0187	Preamplifier 25dB cal to 100kHz-1GHz	Rohde & Schwarz	TS-PR1	102080	1/23/2025
BVD0184	Preamplifier 29dB 1-18GHz	Rohde & Schwarz	TS-PR18	101646	6/20/2025
BVD0185	Preamplifier 45dB 18-40GHz	Rohde & Schwarz	TS-PR1840	100064	6/20/2025
BVD0011	Loop Antenna 9kHz-30MHz	Rohde & Schwarz	FMZB1519B	145	6/10/2025
BVD0021	UltraLog Antenna 30-6000MHz	Rohde & Schwarz	HL562E	101113	6/26/2025
BVD0267	Double Ridge Waveguide 800MHz-18GHz	Rohde & Schwarz	HF907	102832	6/27/2025
BVD0320	18-40GHz Horn Antenna	L3 Narda ATM	PNR 180-442-KF	136164-01	7/15/2025
BVD0045	Field Probe Mast	Rohde & Schwarz	TS-FPMA	N/A	N/A
BVD0480	Band Reject Filter 50dB from 2400 to 2500MHz	Micro-Tronics	BRM50702	G482	6/17/2025
BVD0481	Band Reject Filter 40dB from 5150 to 5880MHz	Micro-Tronics	BRM50716	G336	6/17/2025
BVD0394	Double Shielded N-Type Cable 6.9 Meter	Rohde & Schwarz	N-Type	N/A	4/8/2025
BVD0398	Double Shielded N-Type Cable 2 Meter	Rohde & Schwarz	N-Type	N/A	4/8/2025
BVD0563	RF Cable Assembly	Huber+Suhner, inc	SUCOFLEX 102A	502215/2A	10/17/2024
BVD0407	Double Shielded N-Type Cable 410mm (For PreAmp)	Rohde & Schwarz	N-Type	N/A	10/15/2025
BVD0495	SMA Shielded Cable approx 100mm (for Pre-Amp)	Rohde & Schwarz	SMA-Type	N/A	7/15/2025
BVD0587	Double Shielded N-Type Cable 440mm (For PreAmp)	Winchester Interconnect	250-251-660157 REV A	N/A	1/9/2025
BVD0229	Temp and Humidity Meter	Fluke	971	12001009	5/23/2025

Equipment List (Software)

ID #	Equipment	Manufacturer	Model	Version No.	
N/A	EMC Test Software	Rodhe & Schwarz	EMC32	2024.0.8.0	N/A

Customer Supplied Equipment

ID #	Equipment	Manufacturer	Model	Serial #	Version No.
N/A	Harness	Harman	N/A	N/A	N/A
N/A	Display Unit	MOBIS	BMM6100000	231107 01	N/A
N/A	Shark Fin Antenna	Alfa Romeo	B901	719147	N/A
N/A	Antenna	Aptiv	APN35409682	N/A	N/A
N/A	Camera	N/A	23295906C	N/A	N/A
N/A	MFGBridge_Tool/Dut labtool	N/A	N/A	N/A	2.0.0.89

4.4 Test Limits and Procedures

Radiated emissions that fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

Frequencies (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dB $\mu\text{V/m}$)	Measurement distance (meters)
0.009 ~ 0.490	$2400/F(\text{kHz})$	48.5 - 13.8	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	33.8 - 23	30
1.705 ~ 30.0	30,	29.54	30
30 ~ 88	100	40.0	3
88 ~ 216	150	43.5	3
216 ~ 960	200	46.0	3
Above 960	500	54.0	3

Note:

- The lower limit shall apply at the transition frequencies.
- As per 15.35(b), for frequencies above 1000MHz, the field strength limits based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- For performing measurements at a specified distance of 3m, the values are extrapolated using extrapolation factor.
Frequencies below 30MHz are extrapolated using 40dB/decade.
Frequencies above 30MHz are extrapolated using 20dB/decade.

Frequencies (MHz)	Formula for Limits derivation for below 30MHz	Limits for frequencies below 30MHz (dB $\mu\text{V/m}$)
0.009 ~ 0.490	$2400/F(\text{kHz}) + 40 \text{ Log } (300\text{m}/3\text{m})$	128.5 ~ 93.8
0.490 ~ 1.705	$24000/F(\text{kHz}) + 40 \text{ Log } (30\text{m}/3\text{m})$	73.8 ~ 62.96
1.705 ~ 30.0	$29.54 + 40 \text{ Log } (30\text{m}/3\text{m})$	69.54

Radiated emissions that fall in restricted bands, as defined in RSS-GEN Section 8.10 must also comply with radiated emissions limits specified in RSS-GEN Section 8.9

The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ω .

The measurement procedures are as per 789033 D02 General UNII Test Procedures New Rules v02r01, ISED RSS-247 6.2

The Limits for Unwanted emissions out of the Restricted Bands are as follows.

Procedure	Limits	
	Peak (dBμV/m)	Average (dBμV/m)
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	74	54

§ 15.407

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15–5.25 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: All emissions outside of the 5.47–5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725–5.85 GHz band:
 - (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.

Procedure	Peak Limit (dBμV/m)
15.407(b)(1)	68.2
15.407(b)(2)	
15.407(b)(3)	
15.407(b)(4)	As stated above

1. The table height for emissions measurements
 - i) Below 1 GHz, the table height is 80 cm above the reference ground plane.
 - ii) Above 1 GHz, the table height is 1.5 m
2. Measurements performed with the EUT rotated from 0° to 360°, the antenna height scanned between 1m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

4.5 Test Data

Uncertainty

Radiated Emissions (30MHz to 40GHz)

Test Engineer Initials: AP/AB

The test is to measure the radiated emissions of the EUT. Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- NSA Calibration
- Etc., details see the below table

30MHz to 1GHZ

Source of Uncertainty	Value (dB)	ProbabilityDistribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Filter Insertion Loss	0.25	Normal	2	1	0.125
Antenna Factor	0.65	Normal	2	1	0.325
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.86605081
PRF Response	1.5	Rectangular	1.732	1	0.86605081
Mismatch Filter – Receiver	0.25	U-Shape	2.449	1	0.1768033
NSA Calibration	4.0	Triangular	1.414	1	1.633332
ETS Foam Table (LDT-1.5)	1.8	Rectangular	1.732	1	1.039261
Combined Standard Uncertainty (square root of the sum of the squares)					2.113781
Expanded Uncertainty (K=2)					4.227562

The total derived measurement uncertainty is +/- 4.228 dB

1GHz to 40GHz

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105000
Filter Insertion Loss	0.25	Normal	2	1	0.125000
Antenna Factor	0.65	Normal	2	1	0.325000
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.866051
PRF Response	1.5	Rectangular	1.732	1	0.866051
Mismatch Filter – Receiver	0.25	U-Shape	1.414	1	0.176803
VSWR Calibration	2.0	Triangular	2.449	1	0.816659
ETS Foam Table (LDT-1.5)	1.8	Rectangular	1.732	1	1.039261
Combined Standard Uncertainty (square root of the sum of the squares)					1.869213
Expanded Uncertainty (K=2)					3.738426

The total derived measurement uncertainty is +/- 3.738 dB.

Remarks:

1. Level Q-Peak Reading (dBμV/m) = Raw Q-Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Q-Peak Reading – Limit

Remarks:

1. Level Peak Reading (dBμV/m) = Raw Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Peak Reading – Limit

Remarks:

1. Level Average Reading (dBμV/m) = Raw Average Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Average Reading – Limit

4.5.1 Bluetooth Classic + WLAN 2.4G + WLAN 5G

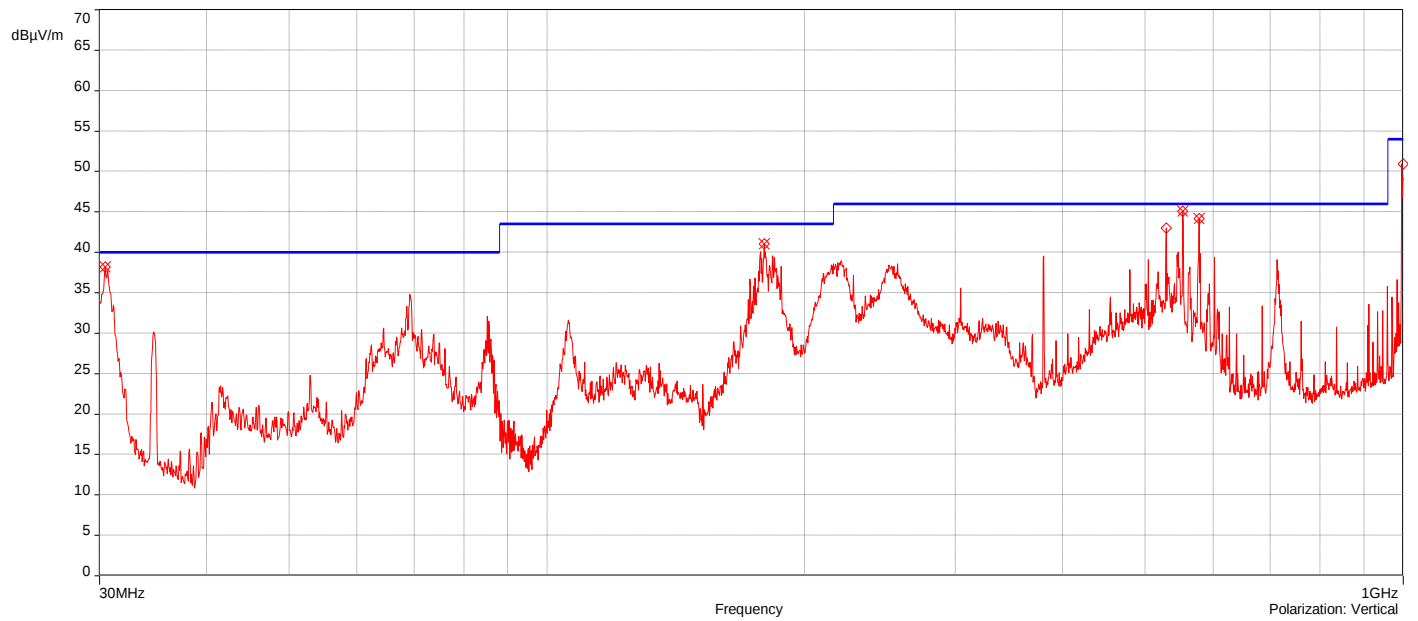
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No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	30.456497MHz	38.19	-7.05	40.00	-1.81	1.25	263.70	Vertical	Passed
2.	179.27466MHz	41.07	-13.18	43.50	-2.43	1.25	215.10	Vertical	Passed
3.	552.97488MHz	45.09	-6.50	46.00	-0.91	1.00	31.70	Vertical	Passed
4.	577.56868MHz	44.20	-5.79	46.00	-1.80	1.00	358.90	Vertical	Passed
5.	552.97488MHz	43.24	-5.50	46.00	-2.76	1.50	329.80	Horizontal	Passed
6.	999.88588MHz	51.24	1.16	54.00	-2.76	1.25	354.10	Horizontal	Passed

Overall Graphs:





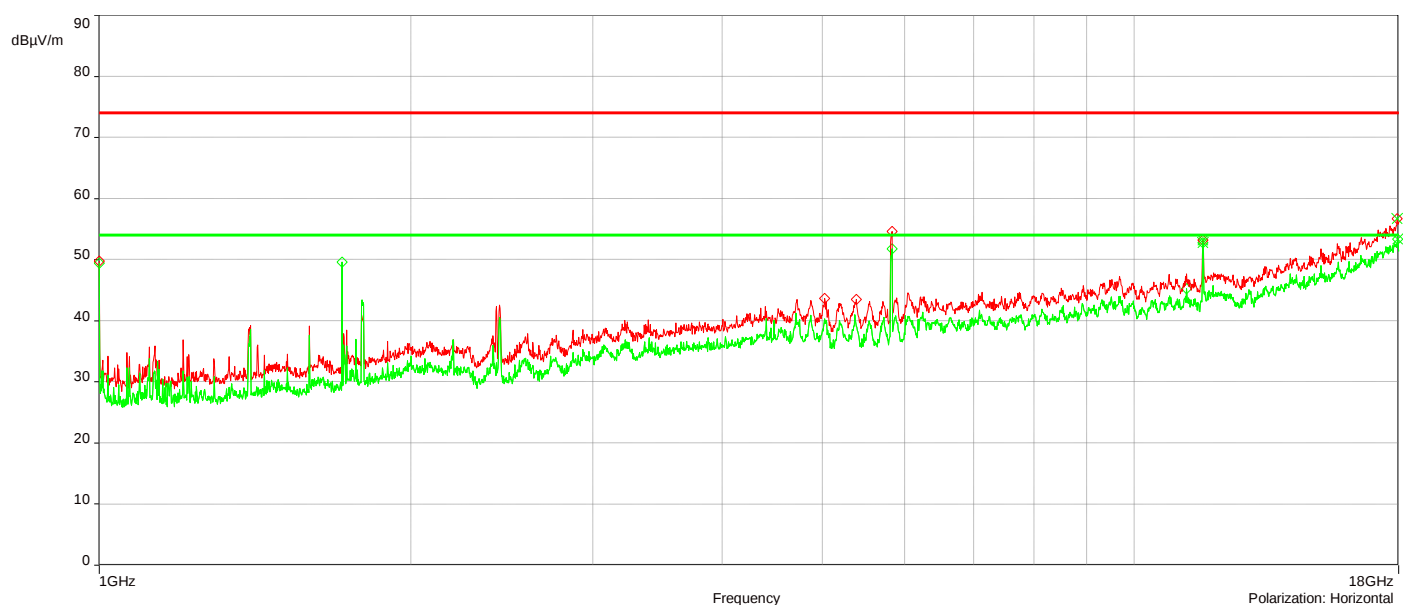
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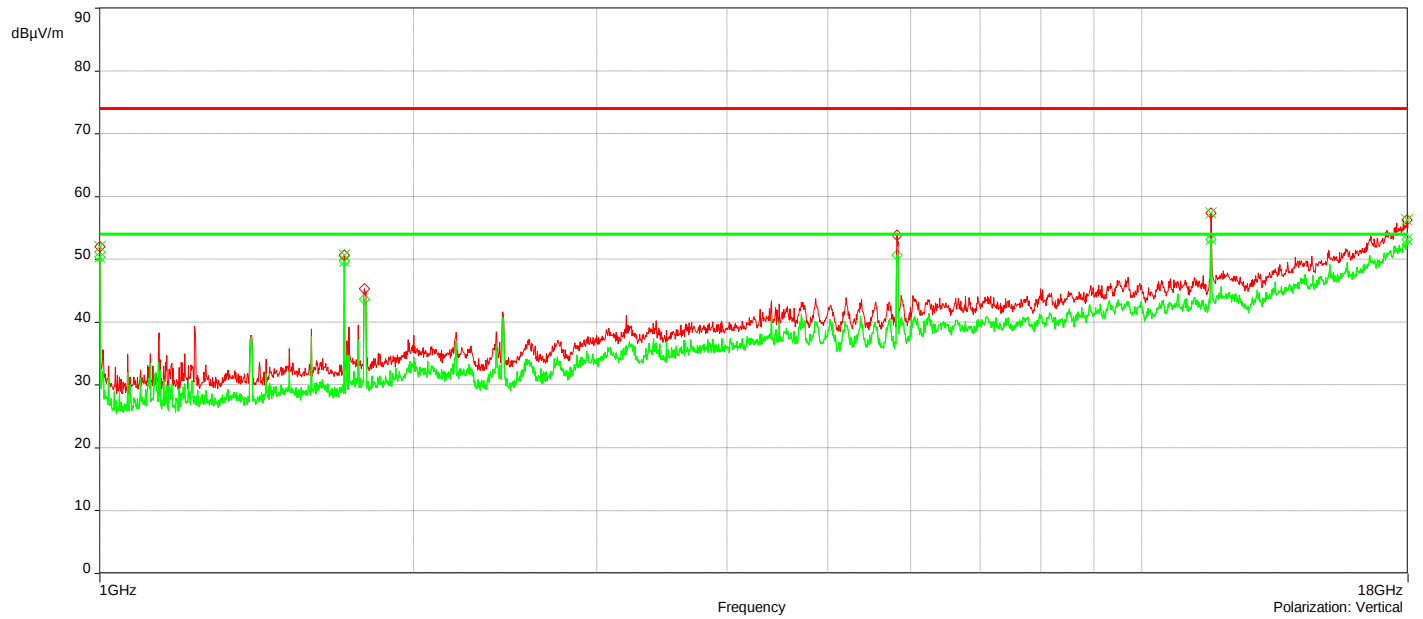
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1GHz	52.01	-7.55	74.00	-21.99	2.50	269.80	Vertical	Passed
2.	1.7160211GHz	50.72	-4.16	74.00	-23.28	4.00	68.30	Vertical	Passed
3.	11.649813GHz	57.41	12.35	74.00	-16.59	1.01	37.40	Vertical	Passed
4.	17.967499GHz	56.34	22.07	74.00	-17.66	3.50	184.20	Vertical	Passed
5.	11.649813GHz	53.21	12.38	74.00	-20.79	4.00	77.30	Horizontal	Passed
6.	17.940498GHz	56.68	21.66	74.00	-17.32	3.50	5.80	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1GHz	50.34	-7.55	54.00	-3.66	2.50	269.80	Vertical	Passed
2.	1.7160211GHz	49.72	-4.16	54.00	-4.28	4.00	68.30	Vertical	Passed
3.	11.650813GHz	53.18	12.36	54.00	-0.82	1.50	32.20	Vertical	Passed
4.	17.964499GHz	53.24	22.01	54.00	-0.76	1.50	359.90	Vertical	Passed
5.	11.649813GHz	52.82	12.38	54.00	-1.18	4.00	77.30	Horizontal	Passed
6.	17.964499GHz	53.34	21.97	54.00	-0.66	2.50	0.10	Horizontal	Passed

Overall Graphs:





J23133#2_BT-3DH1-CH0_2.4G-802.11b-1Mbps-CH6_5G-802.11n-MCS0-CH165_18-40GHz

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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	36.602423GHz	52.16	3.17	74.00	-21.84	3.20	247.40	Vertical	Passed
2.	38.378963GHz	51.80	5.56	74.00	-22.20	1.01	202.40	Vertical	Passed
3.	39.685993GHz	52.50	6.35	74.00	-21.50	2.63	112.40	Vertical	Passed
4.	36.570922GHz	52.03	3.31	74.00	-21.97	3.38	224.90	Horizontal	Passed
5.	38.366463GHz	51.44	5.48	74.00	-22.56	1.03	292.40	Horizontal	Passed
6.	39.652992GHz	52.29	6.67	74.00	-21.71	1.03	67.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	36.722926GHz	49.40	3.22	54.00	-4.60	1.01	292.40	Vertical	Passed
2.	38.305961GHz	49.35	4.98	54.00	-4.65	3.01	67.40	Vertical	Passed
3.	39.655992GHz	49.56	6.63	54.00	-4.44	1.01	112.40	Vertical	Passed
4.	36.615923GHz	48.74	3.23	54.00	-5.26	2.63	89.90	Horizontal	Passed
5.	38.365463GHz	48.50	5.47	54.00	-5.50	1.42	157.40	Horizontal	Passed
6.	39.664992GHz	49.29	6.55	54.00	-4.71	2.42	314.90	Horizontal	Passed

Overall Graphs:





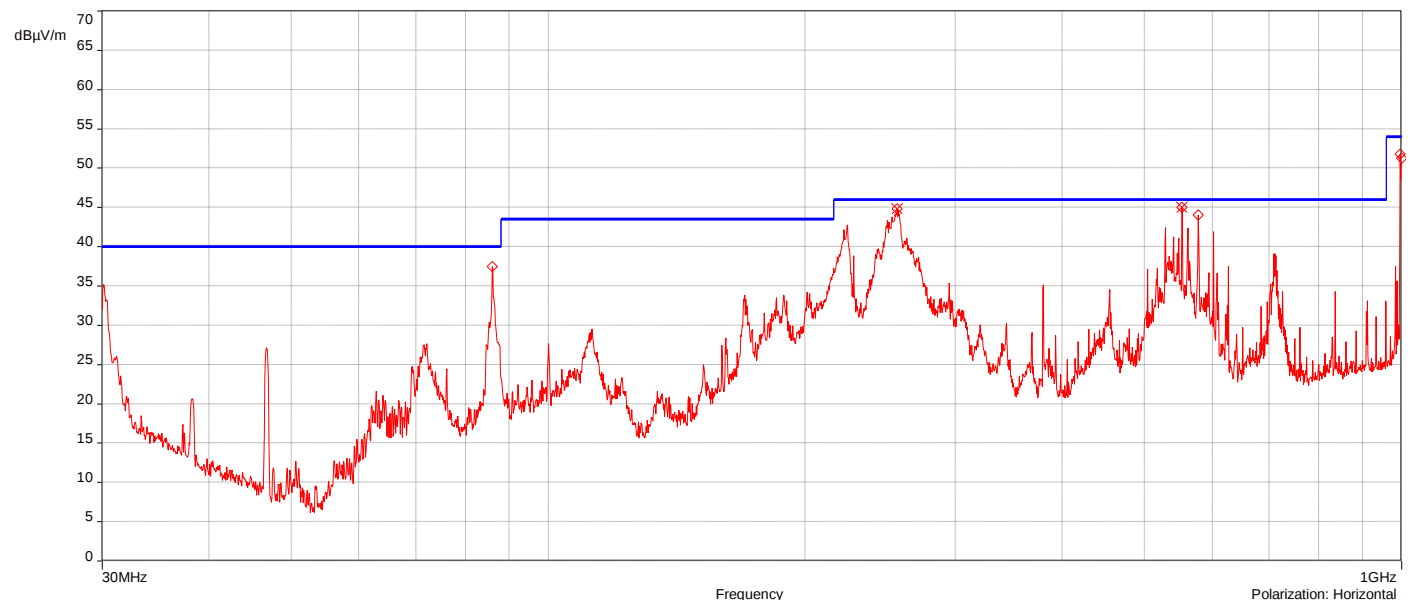
4.5.2 WLAN 2.4G + WLAN 5G

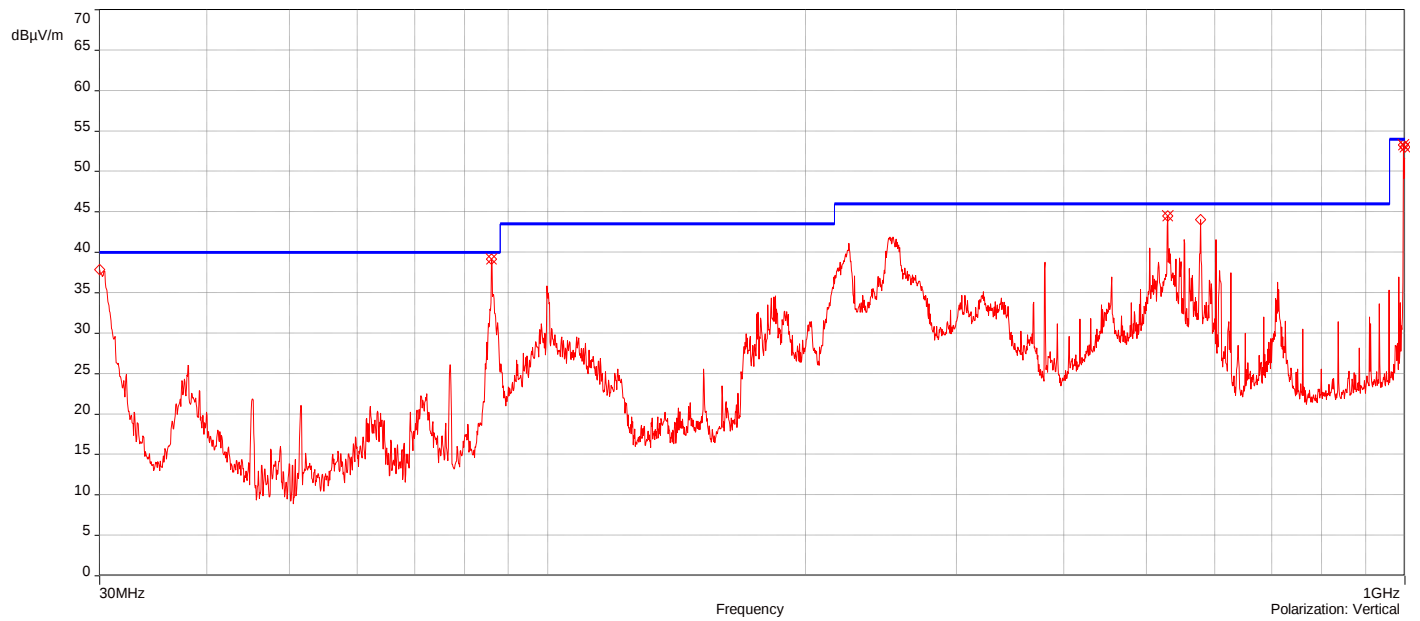
J23133#2_2.4G-802.11b-1Mbps-CH6_5G-802.11n-MCS0-CH165_30MHz-1GHz

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No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	85.977999MHz	39.17	-14.56	40.00	-0.83	1.00	0.10	Vertical	Passed
2.	528.38108MHz	44.51	-6.89	46.00	-1.49	1.25	201.40	Vertical	Passed
3.	995.60621MHz	53.26	-0.28	54.00	-0.74	1.25	137.60	Vertical	Passed
4.	999.88588MHz	53.04	-0.14	54.00	-0.96	1.25	137.60	Vertical	Passed
5.	256.36567MHz	44.84	-12.62	46.00	-1.16	1.00	0.50	Horizontal	Passed
6.	552.97488MHz	45.02	-5.50	46.00	-0.98	1.50	324.00	Horizontal	Passed

Overall Graphs:





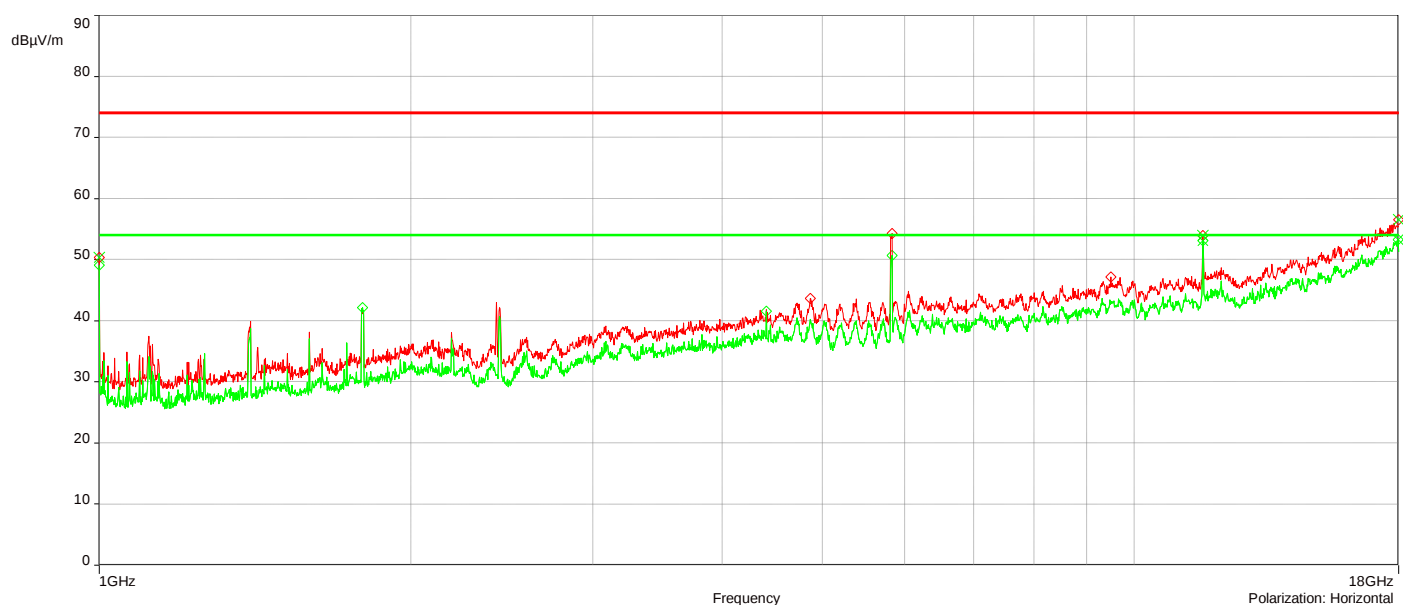
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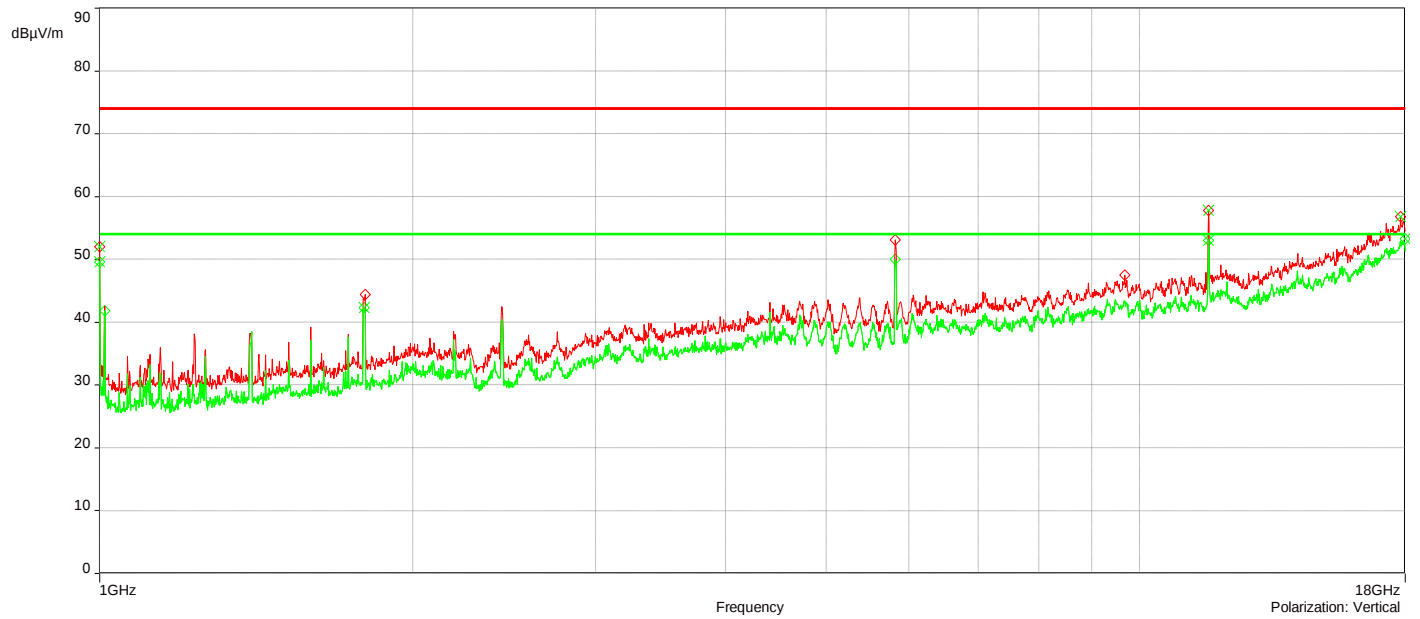
10/8/2024 3:34:30 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	1GHz	52.06	-7.55	74.00	-21.94	2.00	89.40	Vertical	Passed
2.	11.650813GHz	57.81	12.36	74.00	-16.19	4.00	69.40	Vertical	Passed
3.	17.823495GHz	56.80	21.48	74.00	-17.20	2.50	261.40	Vertical	Passed
4.	1GHz	50.34	-8.10	74.00	-23.66	1.50	0.10	Horizontal	Passed
5.	11.644813GHz	53.95	12.32	74.00	-20.05	1.01	55.40	Horizontal	Passed
6.	17.9935GHz	56.53	22.71	74.00	-17.47	2.50	269.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	1GHz	49.62	-7.55	54.00	-4.38	2.00	89.40	Vertical	Passed
2.	1.7965234GHz	42.34	-3.88	54.00	-11.66	2.00	344.60	Vertical	Passed
3.	11.650813GHz	53.05	12.36	54.00	-0.95	4.00	69.40	Vertical	Passed
4.	17.9965GHz	53.28	22.84	54.00	-0.72	3.50	359.90	Vertical	Passed
5.	11.650813GHz	53.09	12.39	54.00	-0.91	4.00	359.90	Horizontal	Passed
6.	17.9855GHz	53.30	22.47	54.00	-0.70	1.01	297.70	Horizontal	Passed

Overall Graphs:





J23133#2_2.4G-802.11b-1Mbps-CH6_5G-802.11n-MCS0-CH165_18-40GHz

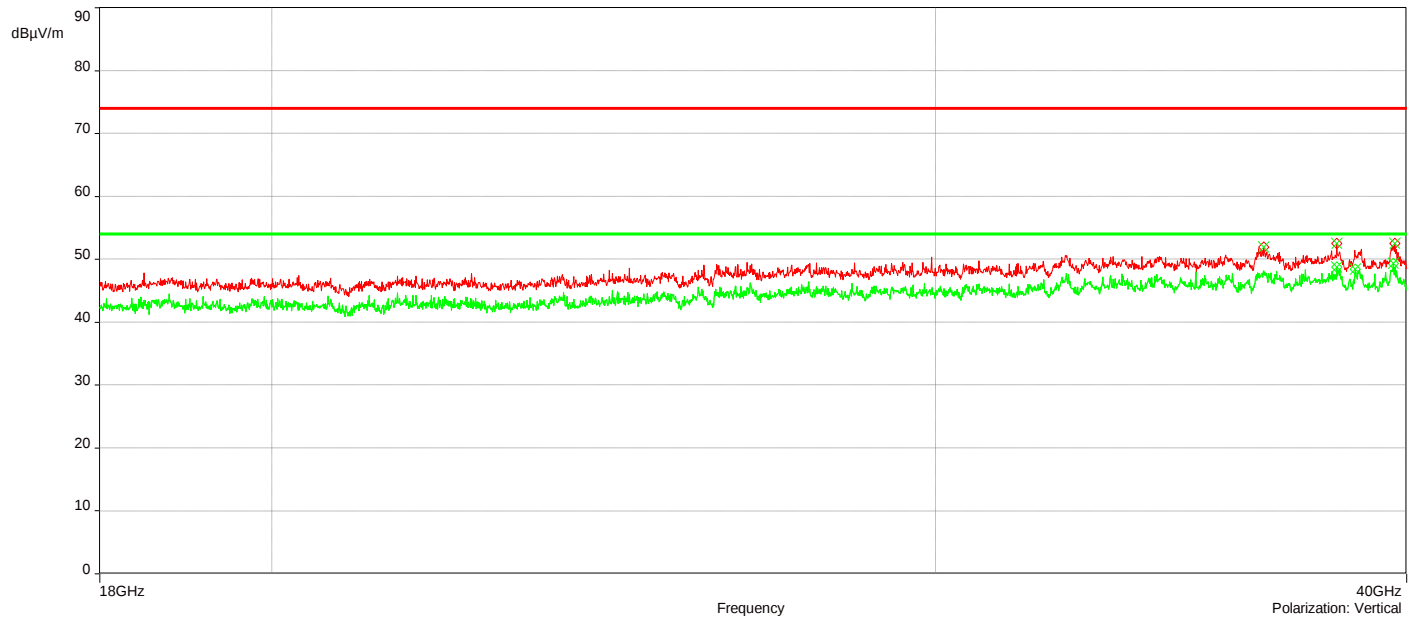
10/7/2024 8:45:40 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	36.658424GHz	51.94	3.36	74.00	-22.06	2.07	270.10	Vertical	Passed
2.	38.323962GHz	52.51	5.18	74.00	-21.49	3.43	67.60	Vertical	Passed
3.	39.707493GHz	52.57	6.21	74.00	-21.43	2.90	247.60	Vertical	Passed
4.	36.573422GHz	52.50	3.29	74.00	-21.50	3.98	157.60	Horizontal	Passed
5.	38.433464GHz	51.80	4.96	74.00	-22.20	1.01	67.60	Horizontal	Passed
6.	39.640992GHz	51.99	6.66	74.00	-22.01	3.39	202.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	38.323962GHz	48.81	5.18	54.00	-5.19	3.43	67.60	Vertical	Passed
2.	38.765472GHz	48.47	4.75	54.00	-5.53	3.25	112.60	Vertical	Passed
3.	39.672993GHz	49.37	6.47	54.00	-4.63	3.47	22.70	Vertical	Passed
4.	36.675424GHz	48.49	3.40	54.00	-5.51	2.51	0.0	Horizontal	Passed
5.	38.871974GHz	48.44	5.72	54.00	-5.56	3.98	337.40	Horizontal	Passed
6.	39.687493GHz	48.76	6.33	54.00	-5.24	4.00	0.0	Horizontal	Passed

Overall Graphs:





Document Revisions

Version	Date	Modifier	Changes
1.0	10-25-2024	Aravind Buddana	Initial Draft
2.0	01-17-2025	Aravind Buddana	- Updated Section 1 and Section 4.1 with RSS-247 Issue version. - Updated Section 1 with EUT FVIN Information - Updated Section 4.1 Test Summary with a comment on usage of Band Reject filters. - Updated Section 4.5 Test data to not show case the fundamental emissions.

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