

FCC CERTIFICATION TEST REPORT

Report No.: DDT-B21112203-2E04

Applicant	:	Nauto, Inc.
Address	:	220 Portage Avenue, Palo Alto, California 94306
Equipment under Test	:	In-vehicle Camera
Model No.	:	Nauto 3
Trade Mark	:	Nauto
FCC ID	:	2AKJ5-N3
Manufacturer	:	Nauto, Inc.
Address	:	220 Portage Avenue, Palo Alto, California 94306

Issued By: Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park
Development Area, Tianjin, China.

Tel: +86-22-58038033, E-mail: ddt@dgddt.com, <http://www.ddttest.com>



REPORT

TABLE OF CONTENTS

	Test report declares.....	3
1.	Summary of Test Results.....	5
2.	General Test Information	6
2.1.	Description of EUT	6
2.2.	Accessories of EUT	6
2.3.	Assistant equipment used for test.....	6
2.4.	Block diagram of EUT configuration for test.....	7
2.5.	Deviations of test standard	7
2.6.	Test environment conditions	8
2.7.	Test laboratory	8
2.8.	Measurement uncertainty	9
3.	Equipment Used During Test.....	10
4.	Maximum Conducted Output Power.....	11
4.1.	Re-Test statement.....	11
4.2.	Block diagram of test setup	11
4.3.	Limits	11
4.4.	Test procedure	11
4.5.	Test result.....	12
5.	Radiated Emission	13
5.1.	Block diagram of test setup	13
5.2.	Limit.....	14
5.3.	Test Procedure.....	15
5.4.	Test result.....	17
6.	Band Edge Compliance (Radiated Method).....	68
6.1.	Block diagram of test setup	68
6.2.	Limit.....	68
6.3.	Test Procedure.....	68
6.4.	Test result.....	68
7.	Appendixes	85
8.	Test Setup Photograph - DTS	86
8.1.	Test setup of Tianjin Dongdian Testing Service Co., Ltd.....	86

Test Report Declare

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Trade Mark	:	Nauto
Manufacturer	:	Nauto, Inc.
Address	:	220 Portage Avenue, Palo Alto, California 94306

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C.

Test Procedure Used:

ANSI C63.10:2013, 558074 D01 15.247 Meas Guidance v05r02

We Declare:

The equipment described above is tested by Tianjin Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Tianjin Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No.:	DDT-B21112203-2E04		
Date of Receipt:	Nov. 22, 2021	Date of Test:	Nov. 22, 2021 ~ Dec. 17, 2021

Prepared By:

Sunny Zhang

Sunny Zhang/Engineer

Approved By:

Aaron Zhang

Aaron Zhang/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.



Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Dec. 17, 2021	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Verdict
6dB Bandwidth and 99% Bandwidth	FCC 15.247 (a) (2) ANSI C63.10:2013	Pass ¹
Maximum Conducted Output Power	FCC 15.247 (b) (3) ANSI C63.10:2013	Pass ²
Power Spectral Density	FCC 15.247 (e) ANSI C63.10:2013	Pass ¹
Band-edge and Spurious Emissions (Conducted)	FCC 15.247 (d) ANSI C63.10:2013	Pass ¹
Radiated Spurious Emissions	FCC 15.247 (d) FCC 15.209 FCC 15.205 ANSI C63.10:2013	Pass ²
Radiated Band Edge Compliance	FCC 15.247 (d) FCC 15.209 FCC 15.205 ANSI C63.10:2013	Pass ²
Power Line Conducted Emission	FCC 15.207 ANSI C63.10:2013	Pass ¹
Note1: The above "pass¹" items data are refer from the original report issued by SGS-CSTC Standards Technical Services Co., Ltd .Shenzhen Branch (Date of Test: 2019/5/10 ~ 2019/6/2), The detailed data can refer to Appendix-2.4G WLAN. Note2: The above "pass²" item is tested by Tianjin Dongdian Testing Service Co., Ltd.		

2. General Test Information

2.1. Description of EUT

EUT* Name	: In-vehicle Camera
Model Number	: Nauto 3
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 12V
Radio Specification	: IEEE 802.11b/g/n
Operation Frequency	: IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz IEEE 802.11n HT40: 2422MHz-2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Data Rate	: IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20, HT40: MCS0~MCS7
Antenna Type	: Integrated antenna, maximum PK gain: -3.4 dBi
Sample Number	: N/A

Note: EUT is the ab. of equipment under test.

Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442		
3	2422	8	2447		
4	2427	9	2452	/	/
5	2432	10	2457		

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	SN
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
N/A	N/A	N/A	N/A	N/A

2.4. Block diagram of EUT configuration for test



Test software: QRCT.EXE

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Tested mode, channel, information			
Mode	Data rate (Mbps) (see Note)	Channel	Frequency (MHz)
IEEE 802.11b	1	CH0	2412
	1	CH6	2437
	1	CH11	2462
IEEE 802.11g	6	CH0	2412
	6	CH6	2437
	6	CH11	2462
IEEE 802.11n HT20	MCS0	CH0	2412
	MCS0	CH6	2437
	MCS0	CH11	2462
IEEE 802.11n HT40	MCS0	CH3	2422
	MCS0	CH6	2437
	MCS0	CH9	2452

Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	25-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038033, <http://www.ddttest.com>, Email: ddt@dgddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	0.14%
Peak Output Power (Conducted) (Spectrum Analyzer)	0.12 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	0.32 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.51 dB
Power Spectral Density	0.12 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	0.32 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	3.4×10^{-8} (Conducted method)
Conducted Spurious Emissions	0.12 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	0.32 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
	0.52 dB ($8 \text{ GHz} \leq f < 22 \text{ GHz}$)
Uncertainty for Radio Frequency (RBW < 20 kHz)	3×10^{-7}
Temperature	$\pm 2^{\circ}\text{C}$
Humidity	$\pm 1\%$
Uncertainty for Radiation Emission Test (30 MHz - 1 GHz)	2.72 dB (Antenna Polarize: V)
	2.72 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	2.74 dB (1 - 6 GHz)
	2.72 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.40 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test (MWRFTest system)					
Microwave Signal Generator	R&S	SMF100A	101396	2021/06/08	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY50143288	2021/03/08	1 Year
EMI Test Receiver	R&S	ESU26	100243	2021/03/03	1 Year
Wideband Radio Communication Tester	R&S	CMW500	158800	2021/05/25	1 Year
Power Detector	MWRFTest	MW100-PS B	MW201203008	2021/03/31	1 Year
DC Power Supply	inSTEK	PSP-2010	EH131319	2021/02/27	1 Year
Test Software	MWRFTest	MTS8310	V03	N/A	N/A
Radiated Emission -10m EMI Chamber					
EXA Signal Analyzer	Keysight	N9010A	MY53281492	2021/03/31	1 Year
Active Loop Antenna	R&S	HFH2-Z2	100269	2021/05/08	1 Year
Double-Ridged Guide Horn Antenna	ETS-LINDGR EN	3115	00102808	2021/03/16	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	2021/04/21	1 Year
Broadband Horn Antenna	TESEQ	BHA 9118	31754	2021/10/12	1 Year
Low noise amplifier	MITEQ	TPA0118-36	0914	2021/02/03	1 Year
EMI Test Receiver	R&S	ESCI	101024	2021/03/03	1 Year
EMI Test Receiver	R&S	ESCI	101030	2021/05/15	1 Year
Bilog Antenna	TESEQ	CBL6112D	29068	2020/10/12	2 Year
Bilog Antenna	TESEQ	CBL6112D	29069	2020/10/12	2 Year
Amplifier	Sonoma	310N	300913	2021/03/03	1 Year
Amplifier	Sonoma	310N	300914	2021/03/03	1 Year
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector1	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector2	N/A	N/A
Test software	TOYO	EP5/RSE	Ver 1.9.1	N/A	N/A
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test					
Test Receiver	R&S	ESCI	101397	2021/03/03	1 Year
LISN	R&S	ENV216	101122	2021/03/31	1 Year
Test software	TOYO	EP5/CE	V 5.4.40	N/A	N/A

4. Maximum Conducted Output Power

4.1. Re-Test statement

The EUT is operating at the same power level with the original testing of SGS-CSTC Standards Technical Services, Co., Ltd. Shenzhen Branch.

4.2. Block diagram of test setup



4.3. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.4. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator.

Measure the PK output power of each antenna port by power sensor.

4.5. Test result

Remark

	The Original Reports	Re-Test Reports
File name:	test report 2.4G WLAN	DDT-B21112203-1E04
Test location:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	Tianjin Dongdian Testing Service Co., Ltd.

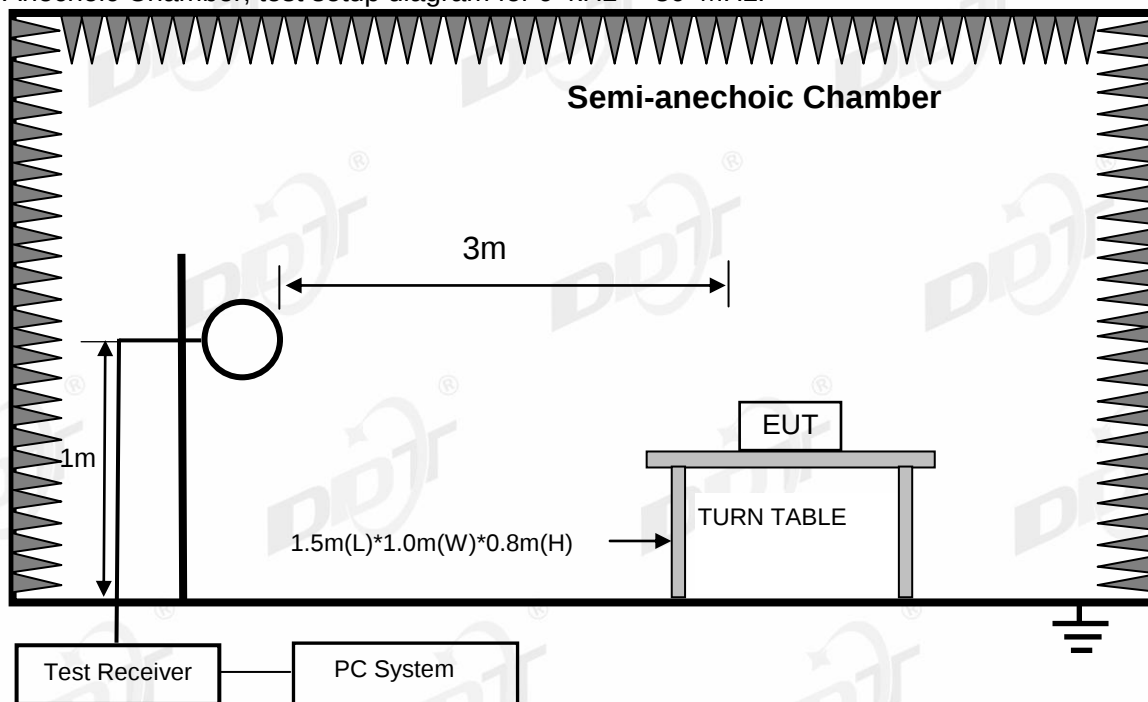
Power:

Mode	Test Channel	The Original Reports Level [dBm]	Re-Test Reports Level [dBm]	Power level
802.11b	Lowest	21.03	20.78	18
	Middle	20.85	20.69	18
	Highest	20.79	20.83	18
802.11g	Lowest	21.93	21.54	16
	Middle	21.93	21.47	16
	Highest	21.96	21.86	16
802.11n20	Lowest	19.95	20.03	16
	Middle	20.07	19.82	16
	Highest	19.62	19.31	16
802.11n40	Lowest	22.22	21.97	15
	Middle	22.13	22.02	15
	Highest	22.11	21.89	15

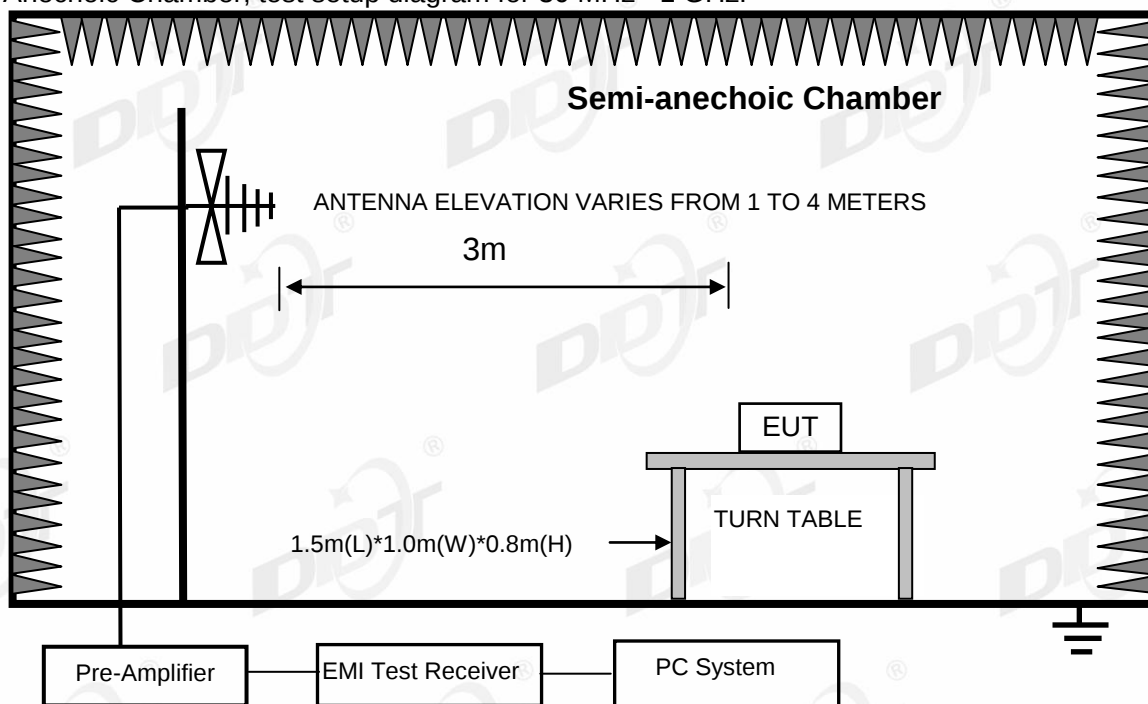
5. Radiated Emission

5.1. Block diagram of test setup

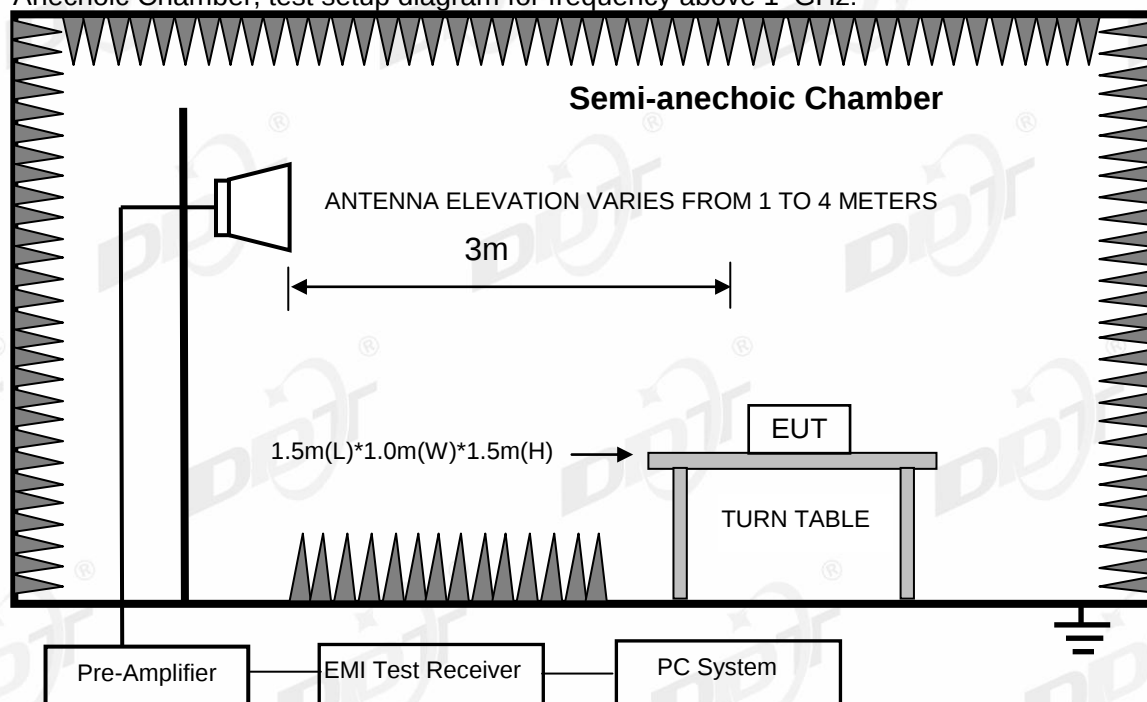
Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

5.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

(2) FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits.

5.3. Test Procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.

(2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna (1 GHz - 18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna (18 GHz - 40 GHz)	3 m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also

is positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. For measurement above 30 MHz, the trilob Broadband Antenna or Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

5.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in transmitting and charging mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Radiated Emission test (below 1 GHz)

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

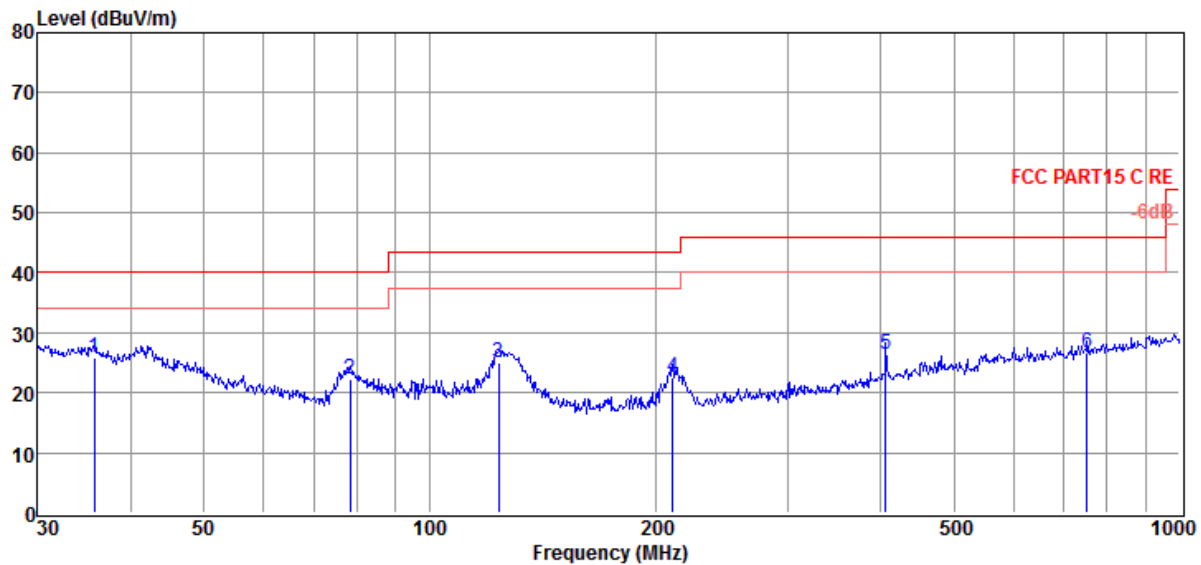
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 2.4G WIFI

Data: 65



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	35.75	-10.26	25.90	40.00	-14.10	182	154	QP	VERTICAL
2	78.41	-22.57	22.33	40.00	-17.67	171	89	QP	VERTICAL
3	123.70	-17.22	25.01	43.50	-18.49	154	335	QP	VERTICAL
4	210.79	-18.08	22.64	43.50	-20.86	170	243	QP	VERTICAL
5	406.09	-12.97	26.35	46.00	-19.65	177	157	QP	VERTICAL
6	752.74	-9.38	26.67	46.00	-19.33	180	289	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. Margin QP (Quasi-Peak) = Level QP - Limit

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

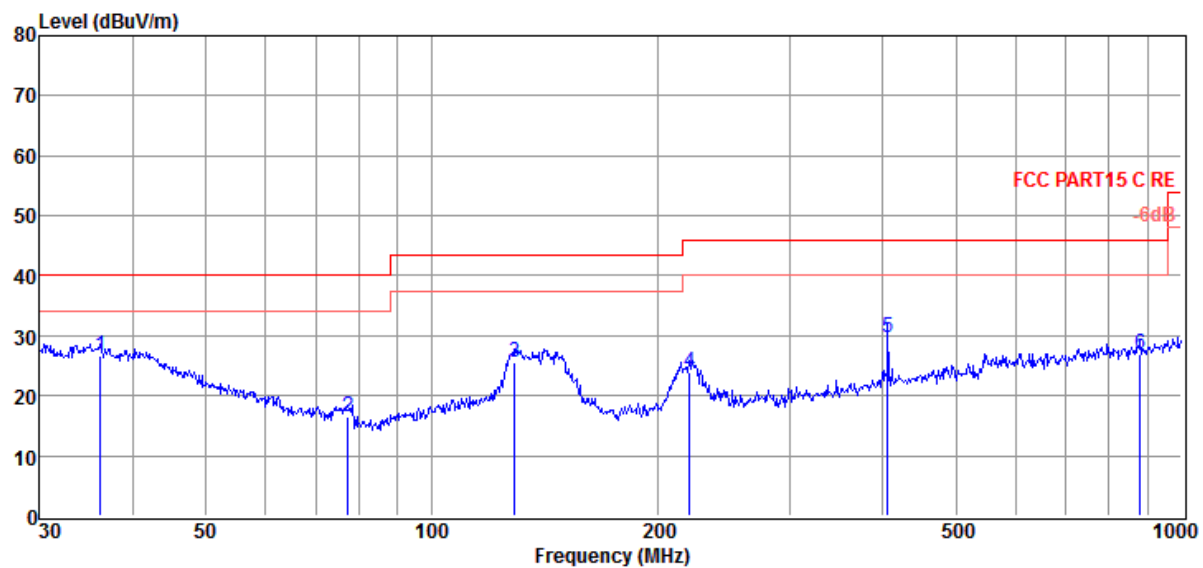
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 2.4G WIFI

Data: 66



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	36.13	-10.45	26.65	40.00	-13.35	177	240	QP	HORIZONTAL
2	77.32	-22.34	16.52	40.00	-23.48	163	34	QP	HORIZONTAL
3	129.02	-17.09	25.70	43.50	-17.80	179	306	QP	HORIZONTAL
4	220.62	-17.61	23.81	46.00	-22.19	156	320	QP	HORIZONTAL
5	406.09	-12.97	29.76	46.00	-16.24	155	8	QP	HORIZONTAL
6	881.41	-8.53	27.05	46.00	-18.95	178	272	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. Margin QP (Quasi-Peak) = Level QP - Limit

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (1 GHz – 3GHz)

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

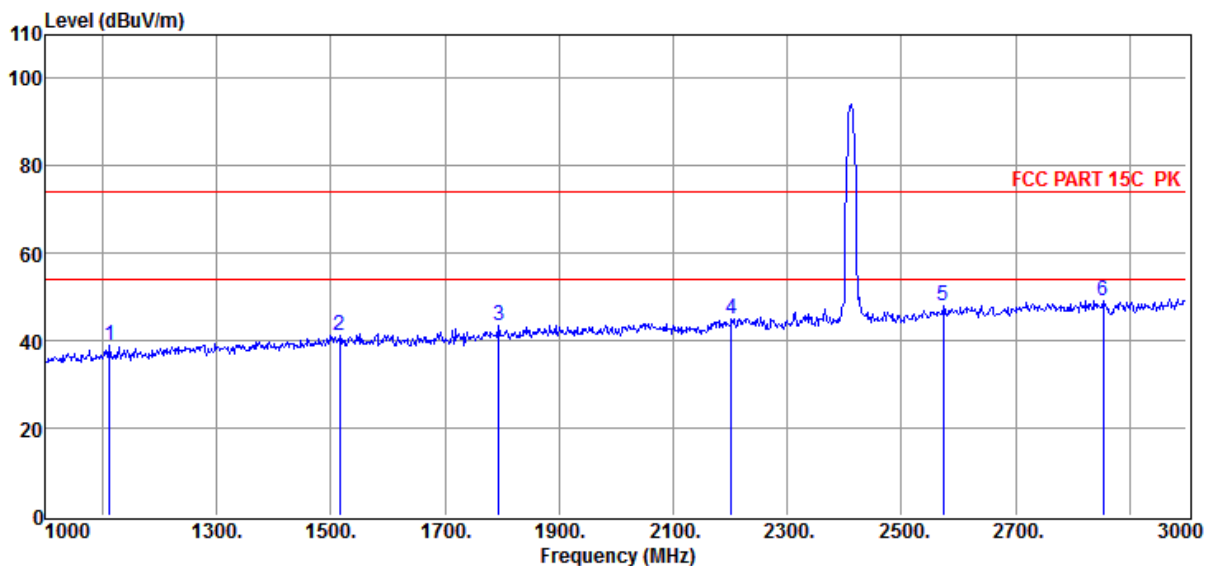
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2412MHz

Data: 67



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1112.00	-6.65	38.79	74.00	-35.21	152	71	Peak	VERTICAL
2	1516.00	-2.79	41.23	74.00	-32.77	161	70	Peak	VERTICAL
3	1794.00	-1.17	43.34	74.00	-30.66	158	41	Peak	VERTICAL
4	2202.00	2.37	45.00	74.00	-29.00	181	24	Peak	VERTICAL
5	2574.00	5.33	47.99	74.00	-26.01	166	167	Peak	VERTICAL
6	2854.00	6.73	49.18	74.00	-24.82	190	49	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

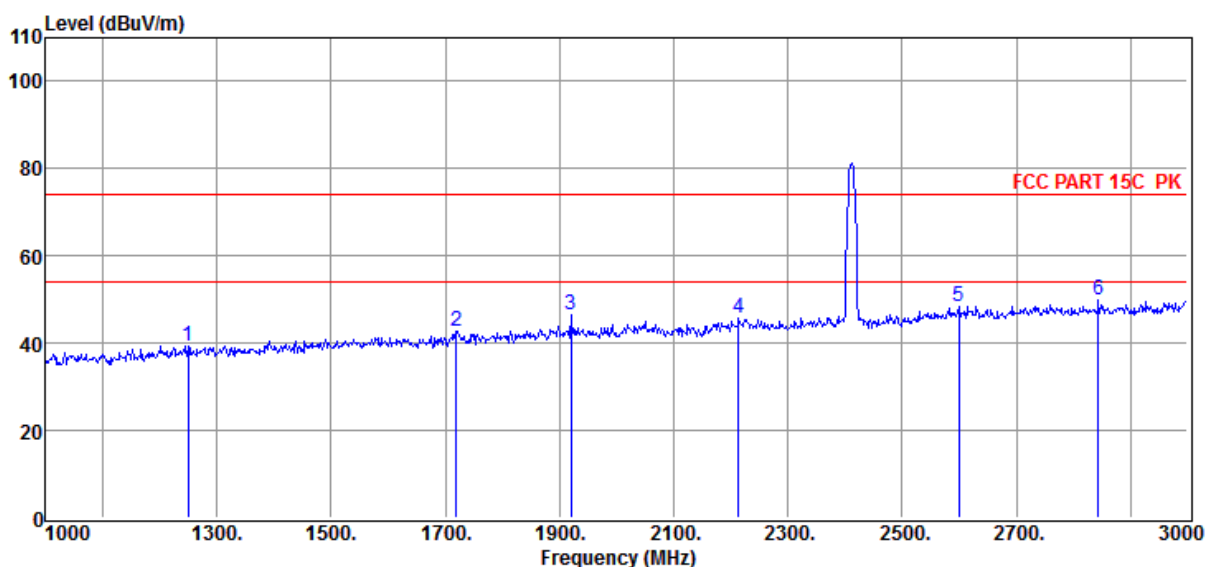
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2412MHz

Data: 68



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1250.00	-4.72	39.24	74.00	-34.76	173	29	Peak	HORIZONTAL
2	1720.00	-1.76	42.81	74.00	-31.19	177	237	Peak	HORIZONTAL
3	1920.00	0.08	46.46	74.00	-27.54	189	73	Peak	HORIZONTAL
4	2214.00	2.37	45.75	74.00	-28.25	185	285	Peak	HORIZONTAL
5	2600.00	5.91	48.53	74.00	-25.47	159	20	Peak	HORIZONTAL
6	2844.00	6.67	49.81	74.00	-24.19	182	62	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

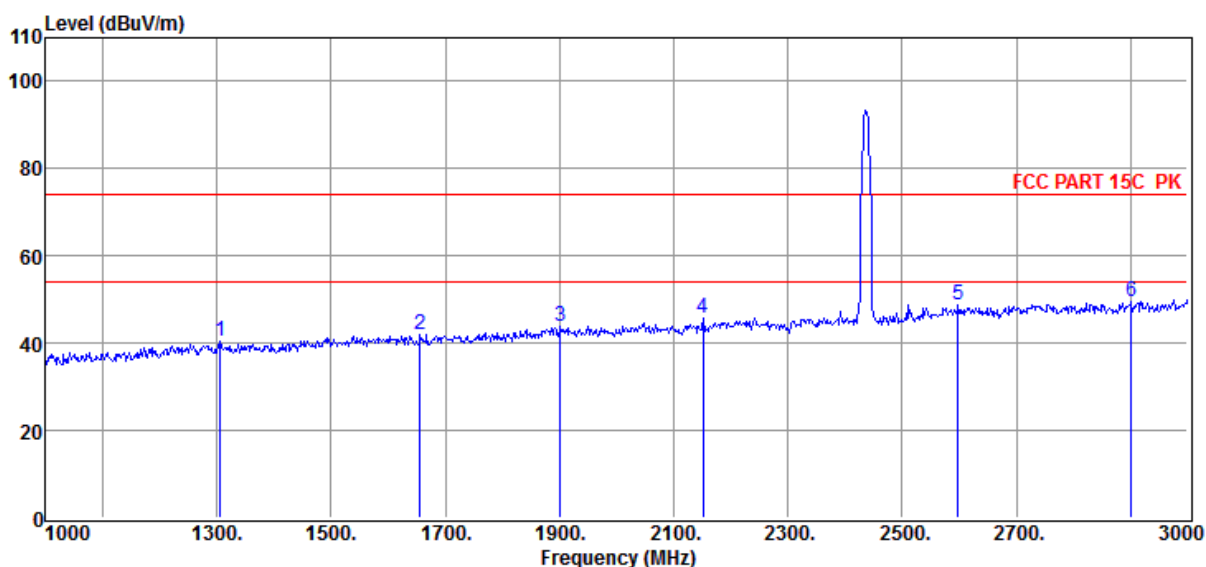
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2437MHz

Data: 69



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1306.00	-4.65	40.32	74.00	-33.68	161	194	Peak	HORIZONTAL
2	1656.00	-2.30	41.84	74.00	-32.16	163	152	Peak	HORIZONTAL
3	1902.00	-0.06	43.97	74.00	-30.03	184	5	Peak	HORIZONTAL
4	2152.00	1.19	45.57	74.00	-28.43	183	195	Peak	HORIZONTAL
5	2598.00	5.87	48.76	74.00	-25.24	175	130	Peak	HORIZONTAL
6	2902.00	6.98	49.34	74.00	-24.66	181	84	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

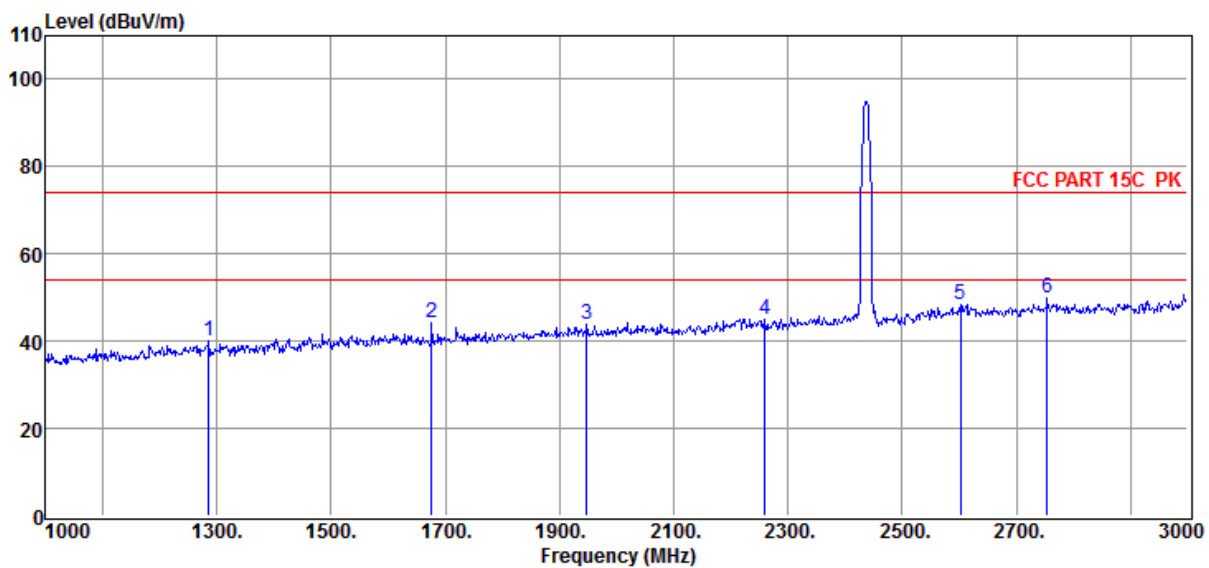
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2437MHz

Data: 70



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1286.00	-4.70	39.98	74.00	-34.02	156	19	Peak	VERTICAL
2	1676.00	-2.16	44.19	74.00	-29.81	154	96	Peak	VERTICAL
3	1948.00	0.29	43.94	74.00	-30.06	152	171	Peak	VERTICAL
4	2260.00	2.28	45.03	74.00	-28.97	168	70	Peak	VERTICAL
5	2602.00	5.88	48.45	74.00	-25.55	178	348	Peak	VERTICAL
6	2754.00	6.63	49.86	74.00	-24.14	168	121	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

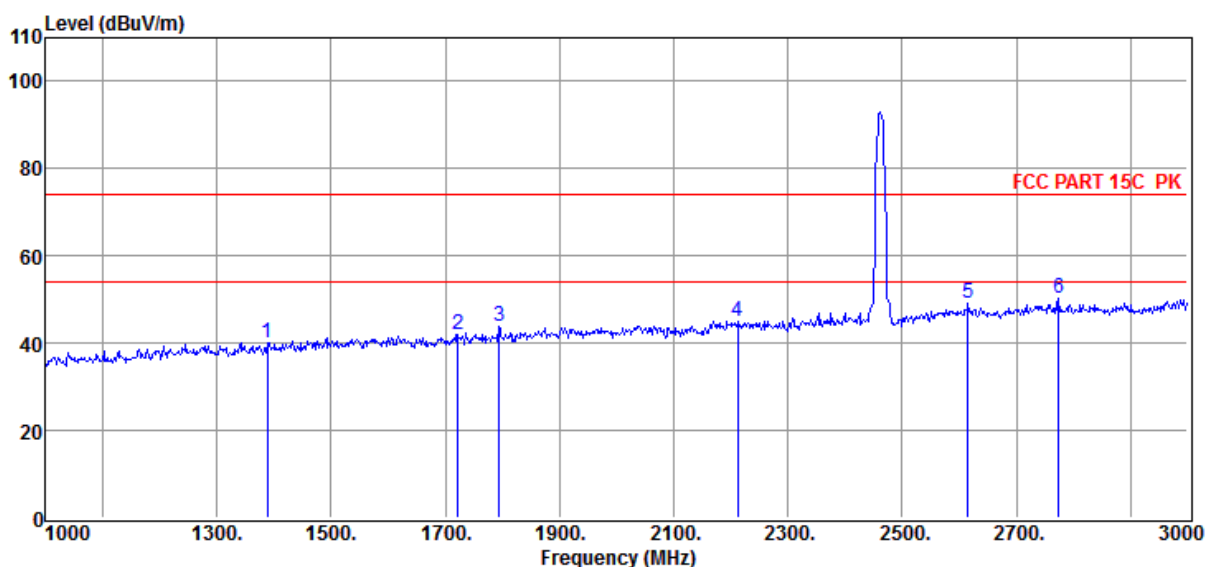
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2462MHz

Data: 71



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1388.00	-4.16	40.12	74.00	-33.88	186	3	Peak	VERTICAL
2	1722.00	-1.74	42.11	74.00	-31.89	150	207	Peak	VERTICAL
3	1794.00	-1.17	43.97	74.00	-30.03	161	142	Peak	VERTICAL
4	2212.00	2.37	45.11	74.00	-28.89	171	70	Peak	VERTICAL
5	2616.00	5.71	49.24	74.00	-24.76	171	168	Peak	VERTICAL
6	2774.00	6.52	50.23	74.00	-23.77	155	140	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

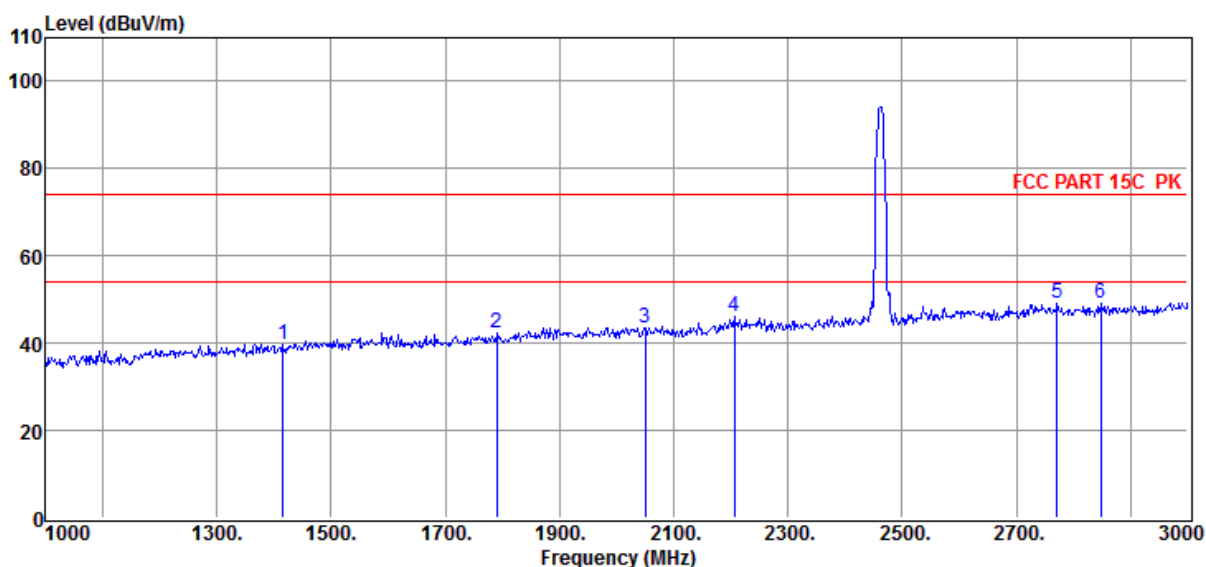
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2462MHz

Data: 72



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1416.00	-3.90	39.88	74.00	-34.12	166	196	Peak	HORIZONTAL
2	1790.00	-1.19	42.34	74.00	-31.66	164	306	Peak	HORIZONTAL
3	2050.00	1.16	43.61	74.00	-30.39	183	332	Peak	HORIZONTAL
4	2206.00	2.37	45.99	74.00	-28.01	172	65	Peak	HORIZONTAL
5	2772.00	6.54	49.29	74.00	-24.71	169	264	Peak	HORIZONTAL
6	2848.00	6.69	49.30	74.00	-24.70	174	245	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

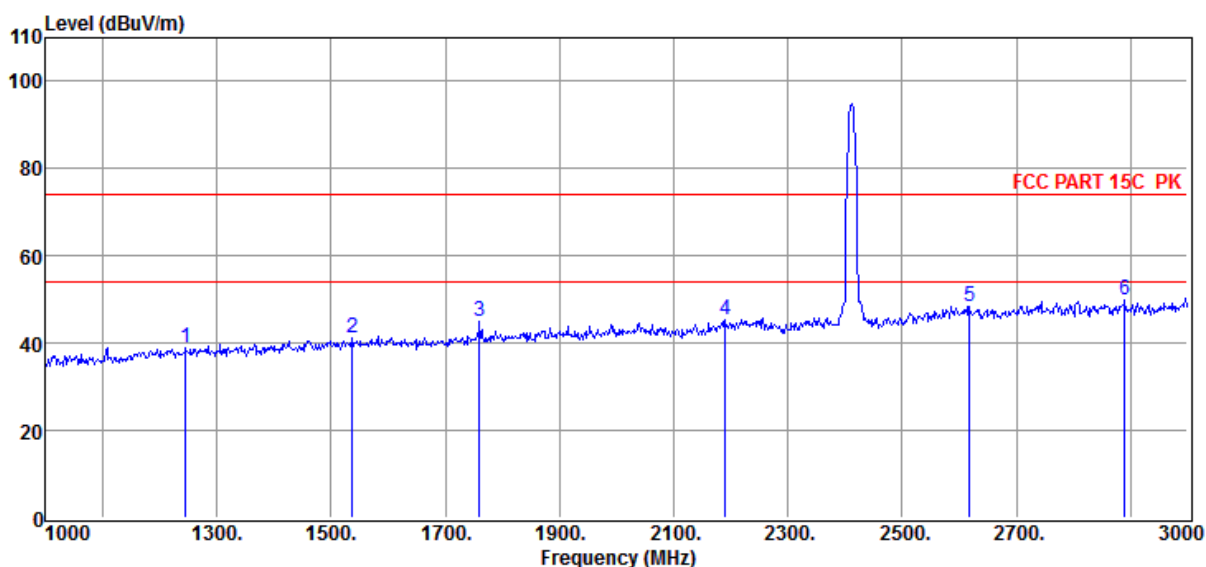
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2412MHz

Data: 73



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1246.00	-4.77	38.97	74.00	-35.03	173	203	Peak	HORIZONTAL
2	1538.00	-2.58	41.15	74.00	-32.85	161	170	Peak	HORIZONTAL
3	1760.00	-1.38	45.06	74.00	-28.94	157	50	Peak	HORIZONTAL
4	2190.00	2.13	45.19	74.00	-28.81	160	99	Peak	HORIZONTAL
5	2618.00	5.69	48.35	74.00	-25.65	189	109	Peak	HORIZONTAL
6	2890.00	6.93	49.84	74.00	-24.16	158	246	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

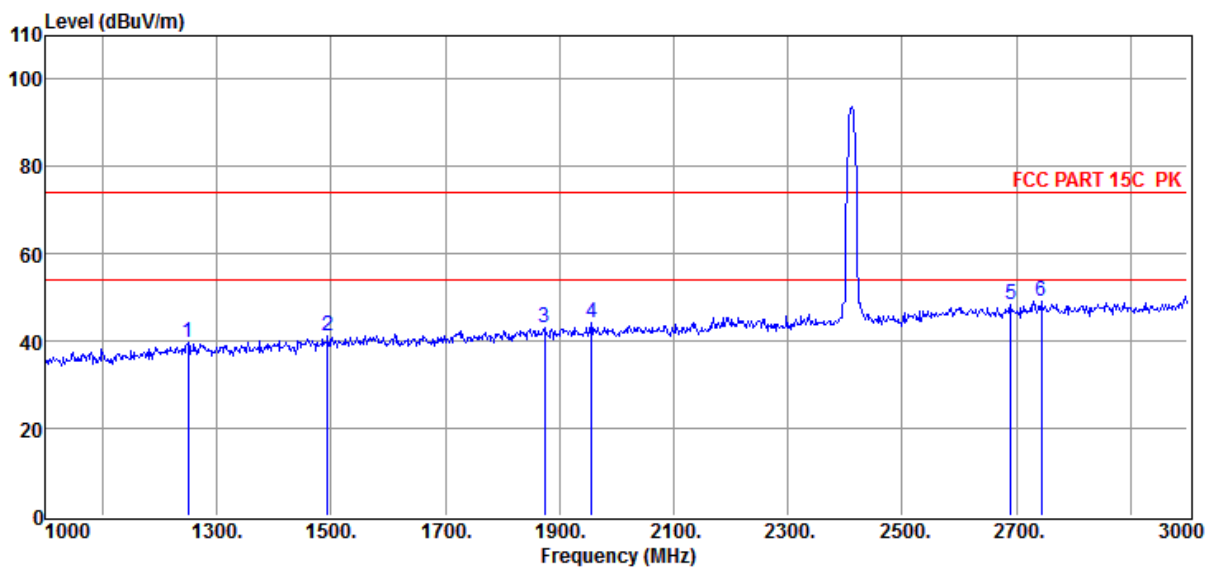
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2412MHz

Data: 74



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1250.00	-4.72	39.52	74.00	-34.48	188	171	Peak	VERTICAL
2	1494.00	-3.01	41.36	74.00	-32.64	182	241	Peak	VERTICAL
3	1874.00	-0.21	42.94	74.00	-31.06	169	252	Peak	VERTICAL
4	1956.00	0.29	44.11	74.00	-29.89	174	221	Peak	VERTICAL
5	2690.00	5.79	48.21	74.00	-25.79	164	301	Peak	VERTICAL
6	2744.00	6.56	49.31	74.00	-24.69	169	131	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

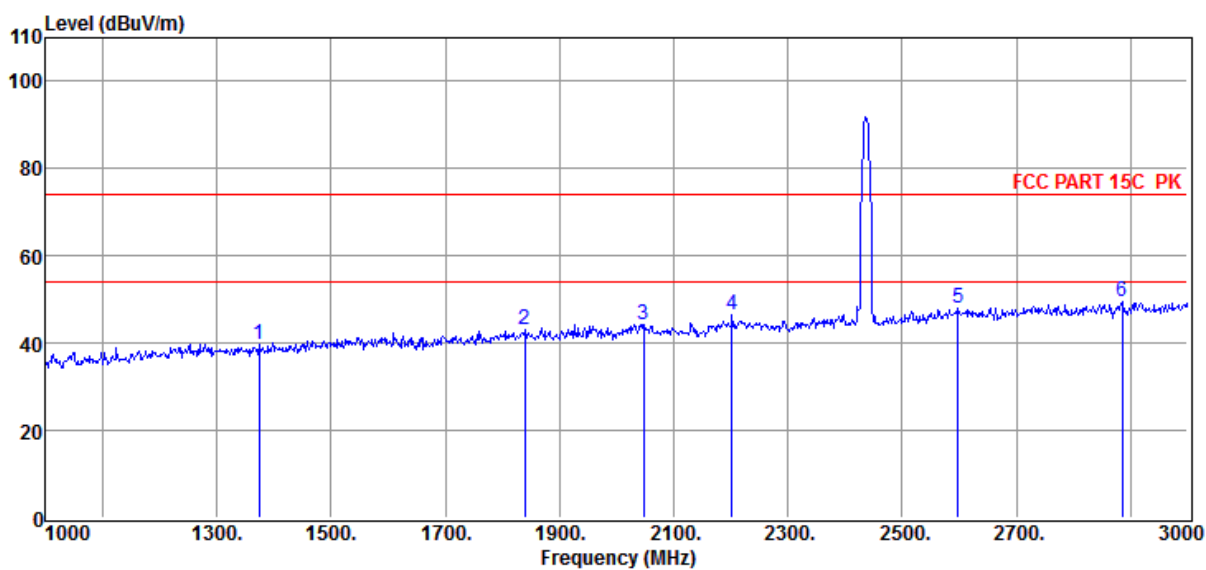
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2437MHz

Data: 75



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1374.00	-4.23	39.88	74.00	-34.12	155	287	Peak	VERTICAL
2	1840.00	-0.49	42.94	74.00	-31.06	190	91	Peak	VERTICAL
3	2048.00	1.12	44.28	74.00	-29.72	151	202	Peak	VERTICAL
4	2202.00	2.37	46.31	74.00	-27.69	169	278	Peak	VERTICAL
5	2598.00	5.87	48.11	74.00	-25.89	177	353	Peak	VERTICAL
6	2886.00	6.92	49.59	74.00	-24.41	170	257	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

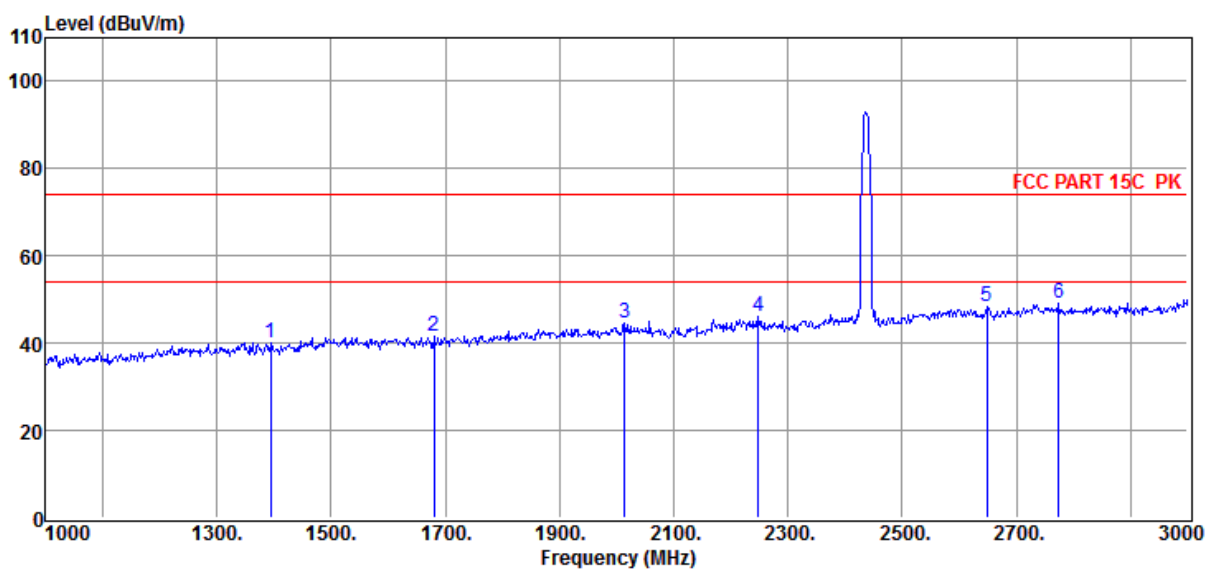
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2437MHz

Data: 76



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1394.00	-4.13	40.14	74.00	-33.86	155	64	Peak	HORIZONTAL
2	1680.00	-2.13	41.49	74.00	-32.51	156	257	Peak	HORIZONTAL
3	2014.00	0.49	44.45	74.00	-29.55	158	31	Peak	HORIZONTAL
4	2248.00	2.37	45.94	74.00	-28.06	157	319	Peak	HORIZONTAL
5	2648.00	5.33	48.41	74.00	-25.59	151	95	Peak	HORIZONTAL
6	2774.00	6.52	49.27	74.00	-24.73	175	176	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

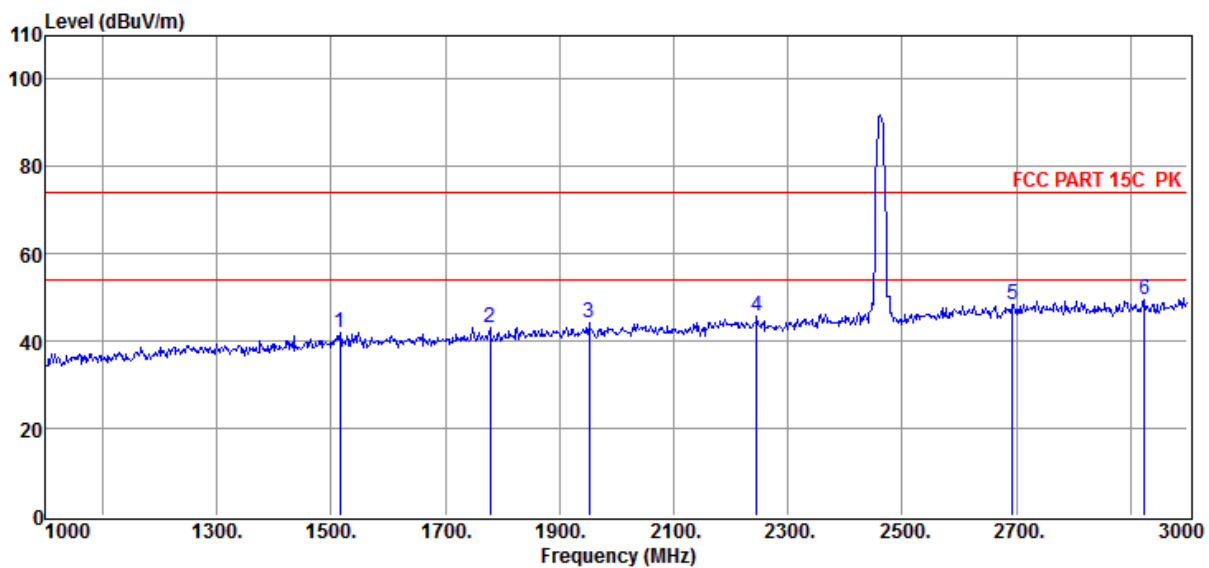
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2462MHz

Data: 77



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1516.00	-2.79	41.82	74.00	-32.18	156	219	Peak	HORIZONTAL
2	1778.00	-1.26	43.17	74.00	-30.83	165	256	Peak	HORIZONTAL
3	1952.00	0.29	44.31	74.00	-29.69	183	58	Peak	HORIZONTAL
4	2246.00	2.37	45.56	74.00	-28.44	168	242	Peak	HORIZONTAL
5	2694.00	5.84	48.43	74.00	-25.57	180	267	Peak	HORIZONTAL
6	2924.00	6.82	49.41	74.00	-24.59	177	317	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

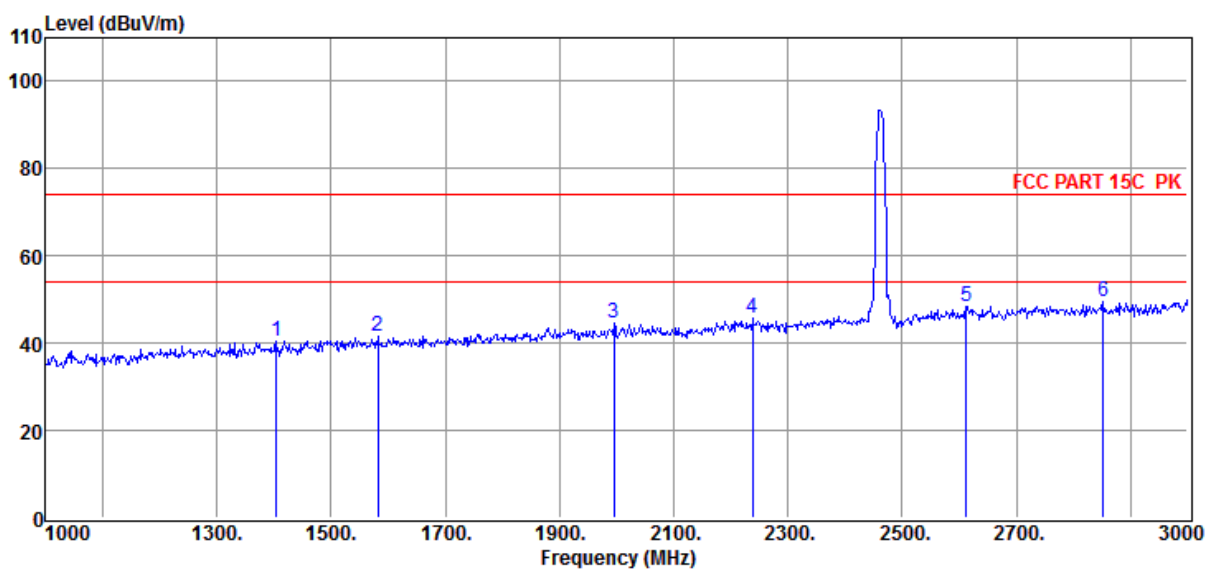
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2462MHz

Data: 78



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1404.00	-4.05	40.53	74.00	-33.47	154	291	Peak	VERTICAL
2	1582.00	-2.34	41.53	74.00	-32.47	156	153	Peak	VERTICAL
3	1996.00	0.23	44.63	74.00	-29.37	155	303	Peak	VERTICAL
4	2238.00	2.37	45.59	74.00	-28.41	173	99	Peak	VERTICAL
5	2612.00	5.76	48.54	74.00	-25.46	159	256	Peak	VERTICAL
6	2852.00	6.72	49.35	74.00	-24.65	190	100	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

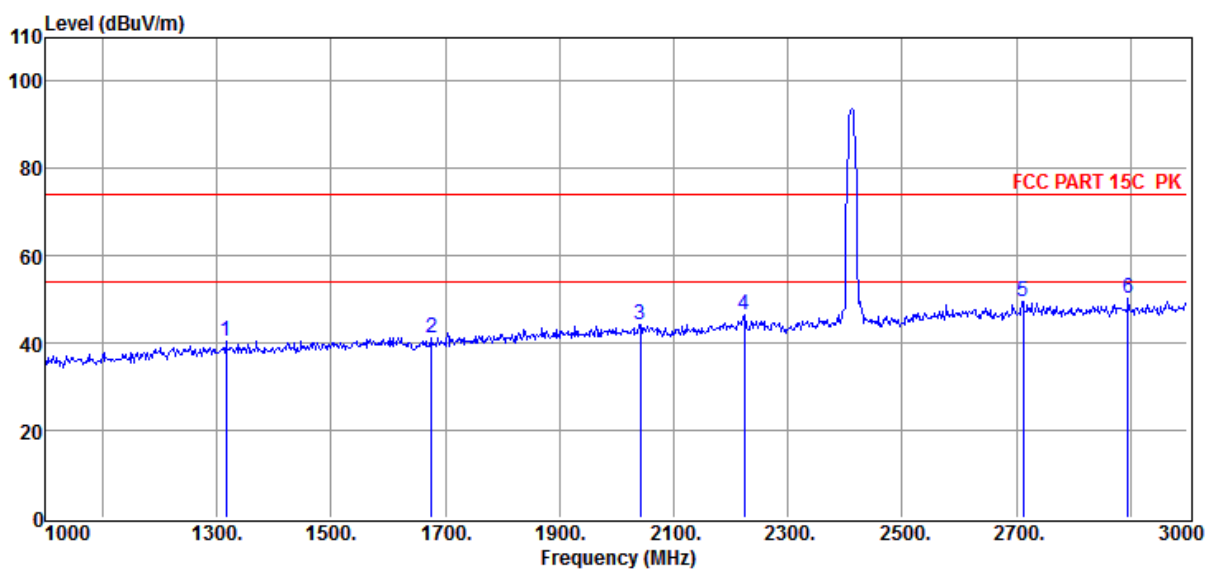
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2412MHz

Data: 79



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1316.00	-4.59	40.27	74.00	-33.73	190	74	Peak	VERTICAL
2	1676.00	-2.16	41.37	74.00	-32.63	175	130	Peak	VERTICAL
3	2042.00	1.01	44.37	74.00	-29.63	189	249	Peak	VERTICAL
4	2224.00	2.37	46.38	74.00	-27.62	160	180	Peak	VERTICAL
5	2712.00	6.08	49.48	74.00	-24.52	182	38	Peak	VERTICAL
6	2896.00	6.97	50.42	74.00	-23.58	167	346	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

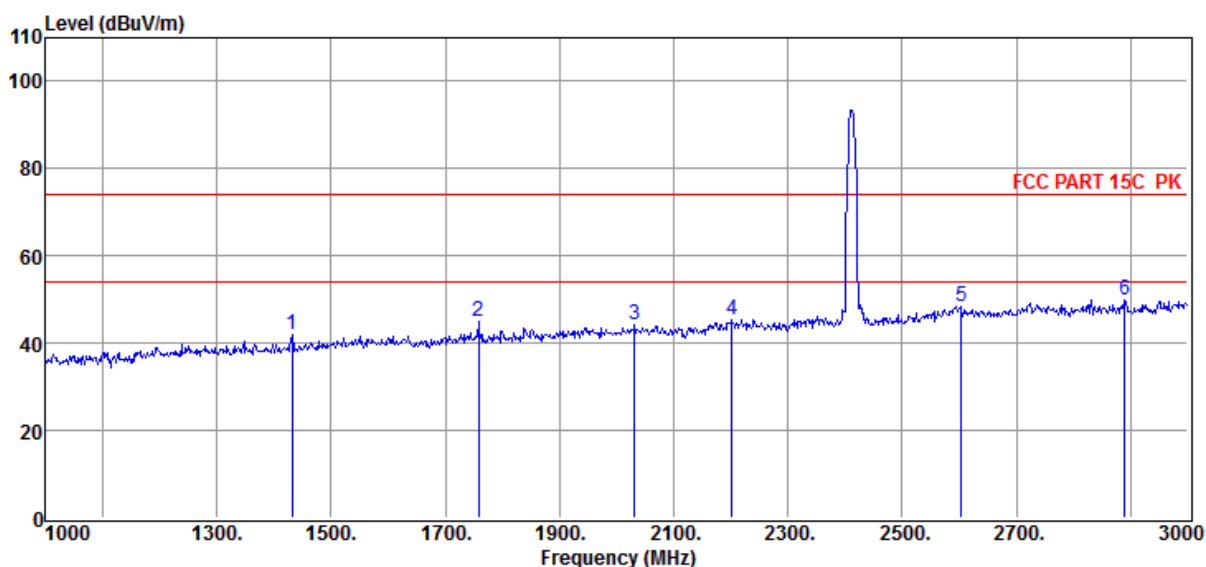
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2412MHz

Data: 80



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1432.00	-3.70	41.79	74.00	-32.21	183	195	Peak	HORIZONTAL
2	1758.00	-1.39	44.97	74.00	-29.03	176	63	Peak	HORIZONTAL
3	2032.00	0.83	44.32	74.00	-29.68	174	278	Peak	HORIZONTAL
4	2202.00	2.37	45.46	74.00	-28.54	150	102	Peak	HORIZONTAL
5	2604.00	5.86	48.31	74.00	-25.69	154	130	Peak	HORIZONTAL
6	2890.00	6.93	49.97	74.00	-24.03	174	291	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

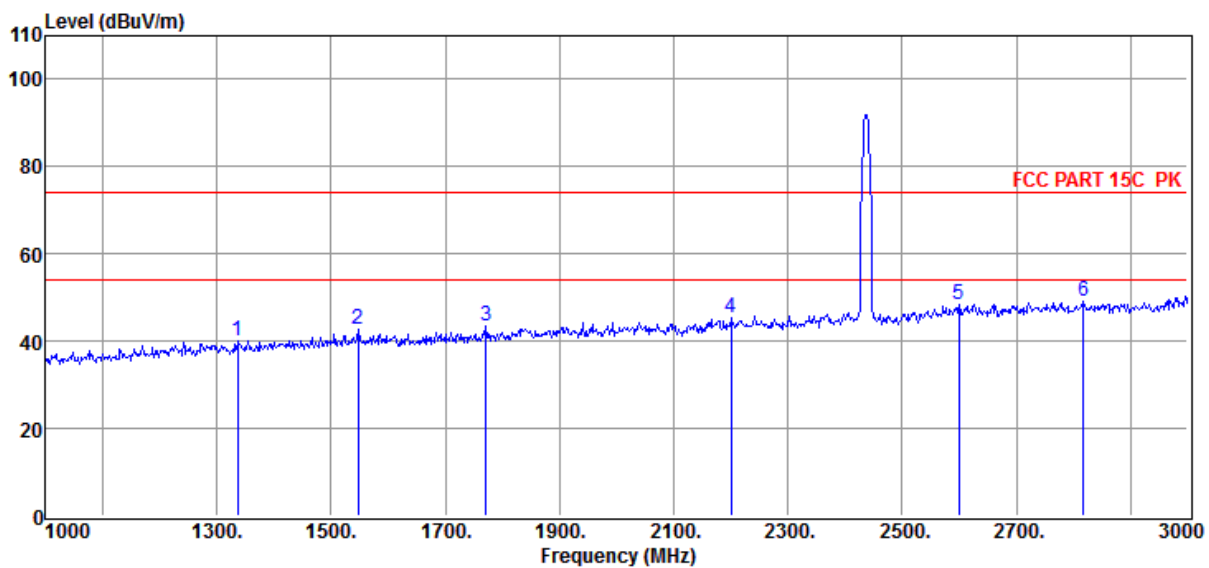
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2437MHz

Data: 81



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1336.00	-4.46	40.15	74.00	-33.85	162	289	Peak	HORIZONTAL
2	1548.00	-2.48	42.81	74.00	-31.19	185	272	Peak	HORIZONTAL
3	1772.00	-1.31	43.52	74.00	-30.48	184	117	Peak	HORIZONTAL
4	2200.00	2.37	45.21	74.00	-28.79	167	9	Peak	HORIZONTAL
5	2600.00	5.91	48.50	74.00	-25.50	151	30	Peak	HORIZONTAL
6	2818.00	6.49	49.28	74.00	-24.72	171	331	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

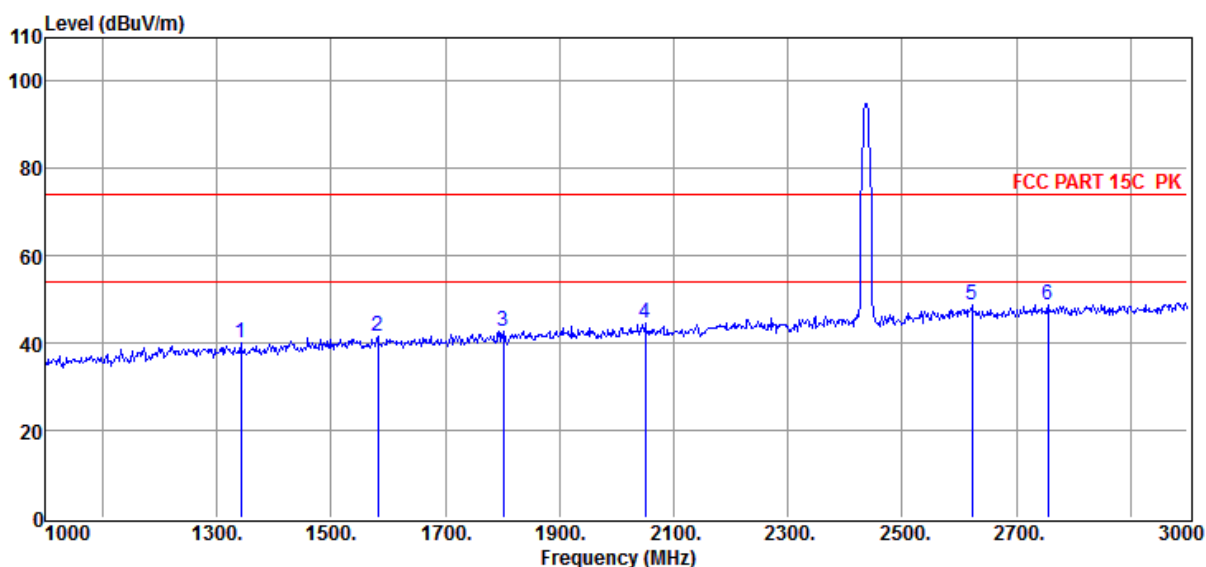
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2437MHz

Data: 82



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1342.00	-4.41	40.05	74.00	-33.95	189	267	Peak	VERTICAL
2	1582.00	-2.34	41.39	74.00	-32.61	188	13	Peak	VERTICAL
3	1802.00	-1.10	42.86	74.00	-31.14	176	316	Peak	VERTICAL
4	2050.00	1.16	44.58	74.00	-29.42	162	9	Peak	VERTICAL
5	2622.00	5.64	48.70	74.00	-25.30	160	348	Peak	VERTICAL
6	2756.00	6.62	48.93	74.00	-25.07	187	297	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

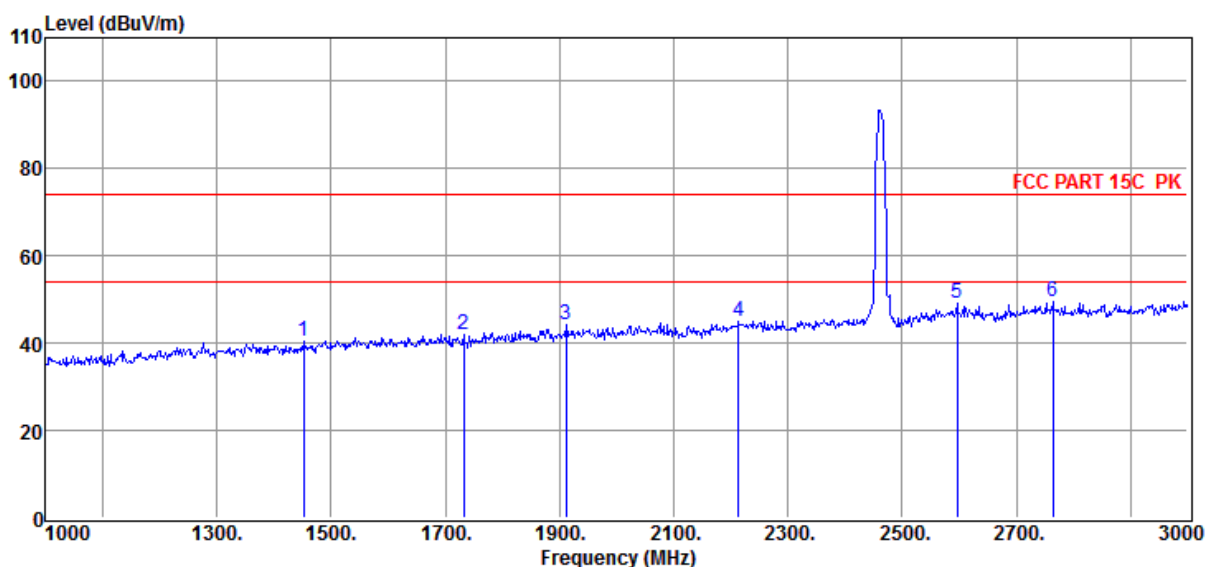
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2462MHz

Data: 83



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1452.00	-3.46	40.48	74.00	-33.52	180	211	Peak	VERTICAL
2	1732.00	-1.64	41.93	74.00	-32.07	188	138	Peak	VERTICAL
3	1912.00	0.01	44.19	74.00	-29.81	162	140	Peak	VERTICAL
4	2214.00	2.37	45.07	74.00	-28.93	186	344	Peak	VERTICAL
5	2596.00	5.82	49.14	74.00	-24.86	187	109	Peak	VERTICAL
6	2764.00	6.57	49.40	74.00	-24.60	178	307	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

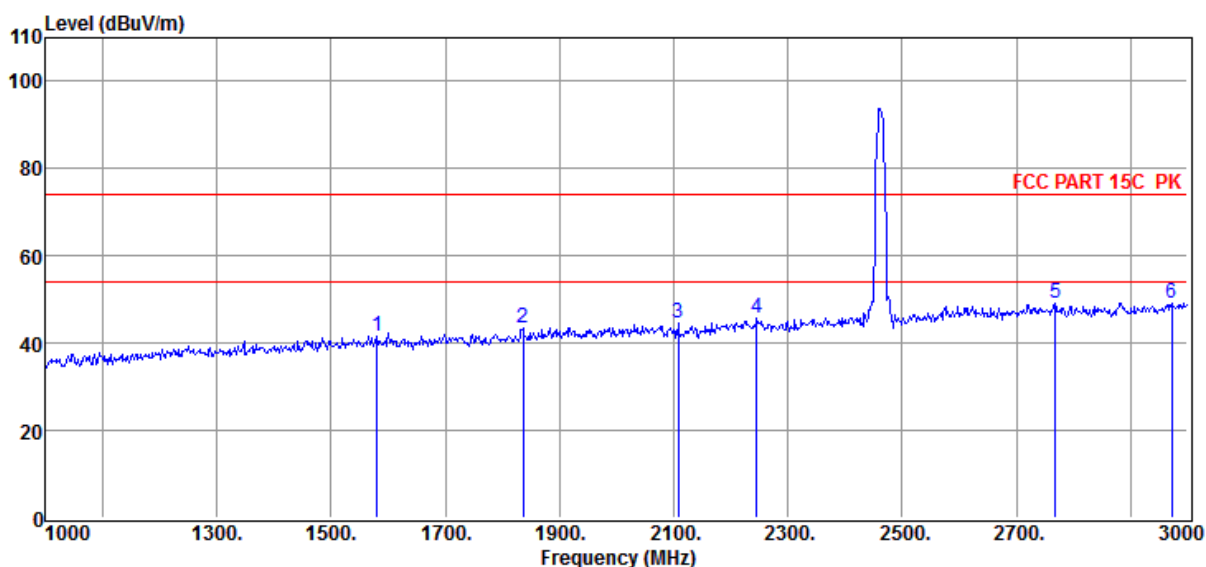
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2462MHz

Data: 84



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1580.00	-2.35	41.52	74.00	-32.48	189	349	Peak	HORIZONTAL
2	1836.00	-0.55	43.39	74.00	-30.61	162	262	Peak	HORIZONTAL
3	2108.00	0.59	44.75	74.00	-29.25	175	60	Peak	HORIZONTAL
4	2246.00	2.37	45.82	74.00	-28.18	163	351	Peak	HORIZONTAL
5	2768.00	6.55	48.96	74.00	-25.04	152	238	Peak	HORIZONTAL
6	2972.00	7.42	49.32	74.00	-24.68	155	129	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

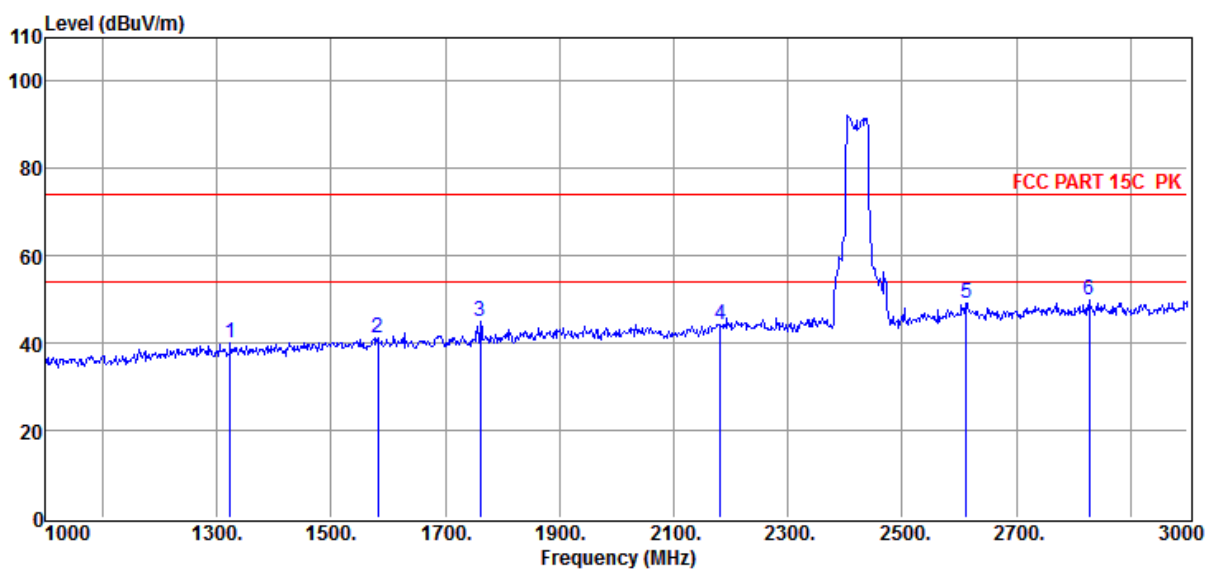
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2422MHz

Data: 85



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1324.00	-4.53	40.23	74.00	-33.77	166	113	Peak	HORIZONTAL
2	1582.00	-2.34	41.36	74.00	-32.64	162	159	Peak	HORIZONTAL
3	1762.00	-1.37	44.82	74.00	-29.18	183	131	Peak	HORIZONTAL
4	2182.00	1.93	44.36	74.00	-29.64	160	330	Peak	HORIZONTAL
5	2612.00	5.76	49.16	74.00	-24.84	184	206	Peak	HORIZONTAL
6	2828.00	6.56	49.80	74.00	-24.20	177	20	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

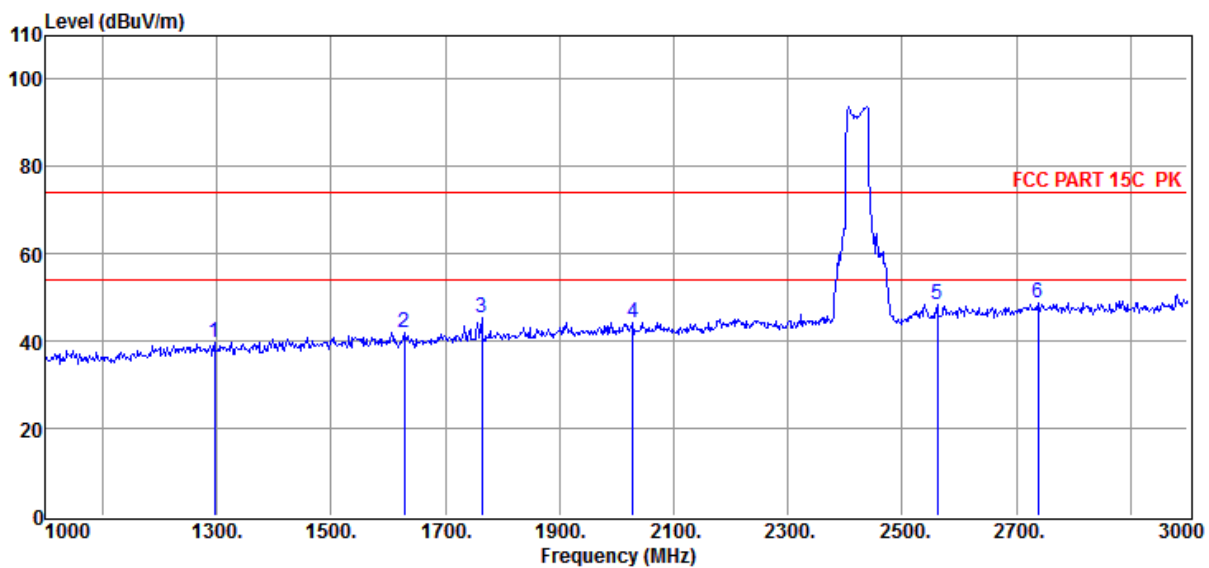
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2422MHz

Data: 86



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1296.00	-4.69	39.73	74.00	-34.27	187	300	Peak	VERTICAL
2	1628.00	-2.32	41.93	74.00	-32.07	158	90	Peak	VERTICAL
3	1764.00	-1.36	45.21	74.00	-28.79	154	70	Peak	VERTICAL
4	2028.00	0.75	44.26	74.00	-29.74	182	97	Peak	VERTICAL
5	2562.00	5.06	48.55	74.00	-25.45	184	348	Peak	VERTICAL
6	2738.00	6.48	48.74	74.00	-25.26	167	319	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

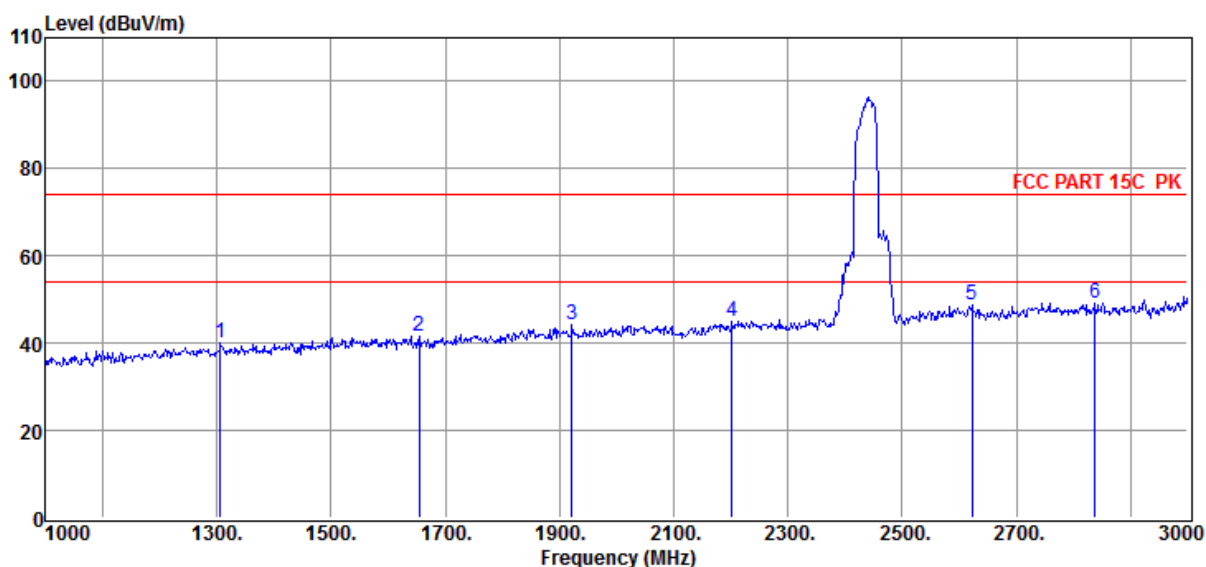
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2437MHz

Data: 87



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1306.00	-4.65	39.89	74.00	-34.11	172	254	Peak	VERTICAL
2	1654.00	-2.32	41.69	74.00	-32.31	166	143	Peak	VERTICAL
3	1922.00	0.09	44.04	74.00	-29.96	186	32	Peak	VERTICAL
4	2202.00	2.37	45.00	74.00	-29.00	158	329	Peak	VERTICAL
5	2622.00	5.64	48.86	74.00	-25.14	183	215	Peak	VERTICAL
6	2838.00	6.63	49.31	74.00	-24.69	185	135	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

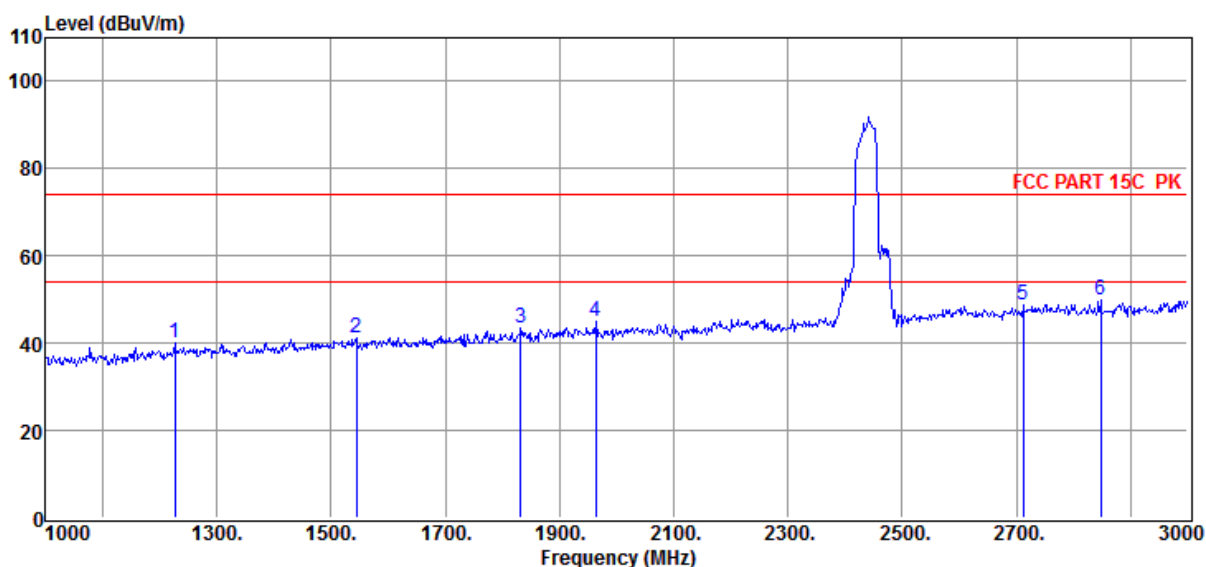
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2437MHz

Data: 88



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1226.00	-5.01	40.14	74.00	-33.86	184	176	Peak	HORIZONTAL
2	1544.00	-2.52	41.05	74.00	-32.95	167	253	Peak	HORIZONTAL
3	1832.00	-0.62	43.34	74.00	-30.66	168	321	Peak	HORIZONTAL
4	1964.00	0.28	44.95	74.00	-29.05	189	196	Peak	HORIZONTAL
5	2712.00	6.08	48.58	74.00	-25.42	189	243	Peak	HORIZONTAL
6	2848.00	6.69	49.80	74.00	-24.20	185	165	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

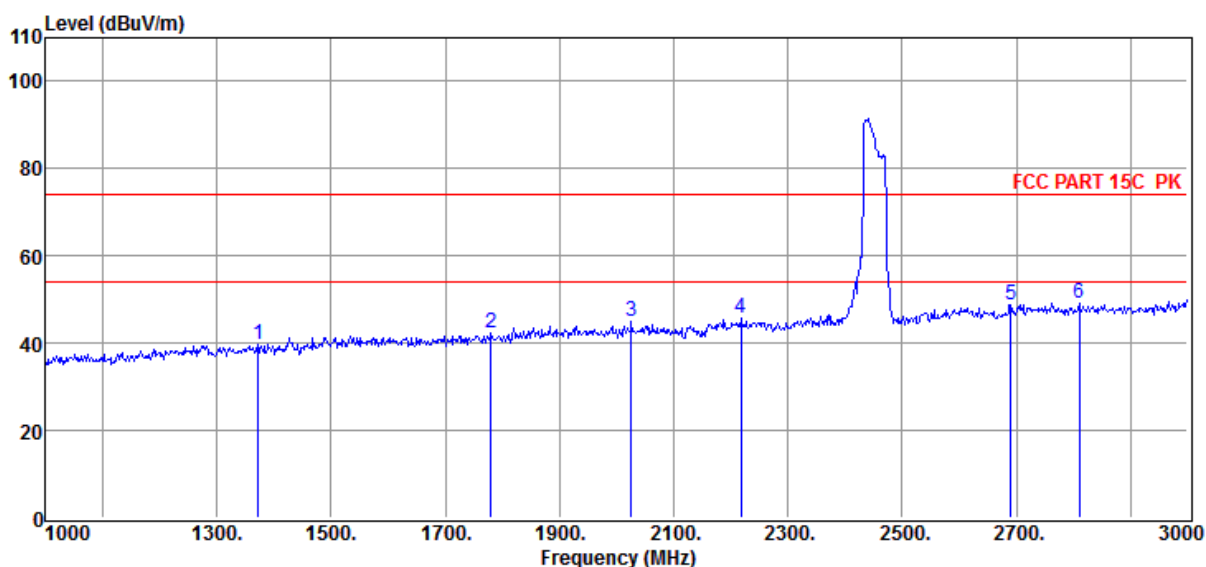
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2452MHz

Data: 89



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1372.00	-4.24	39.62	74.00	-34.38	184	334	Peak	HORIZONTAL
2	1780.00	-1.25	42.49	74.00	-31.51	179	143	Peak	HORIZONTAL
3	2026.00	0.71	44.83	74.00	-29.17	182	118	Peak	HORIZONTAL
4	2218.00	2.37	45.56	74.00	-28.44	175	210	Peak	HORIZONTAL
5	2690.00	5.79	48.85	74.00	-25.15	159	105	Peak	HORIZONTAL
6	2810.00	6.45	49.22	74.00	-24.78	153	171	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

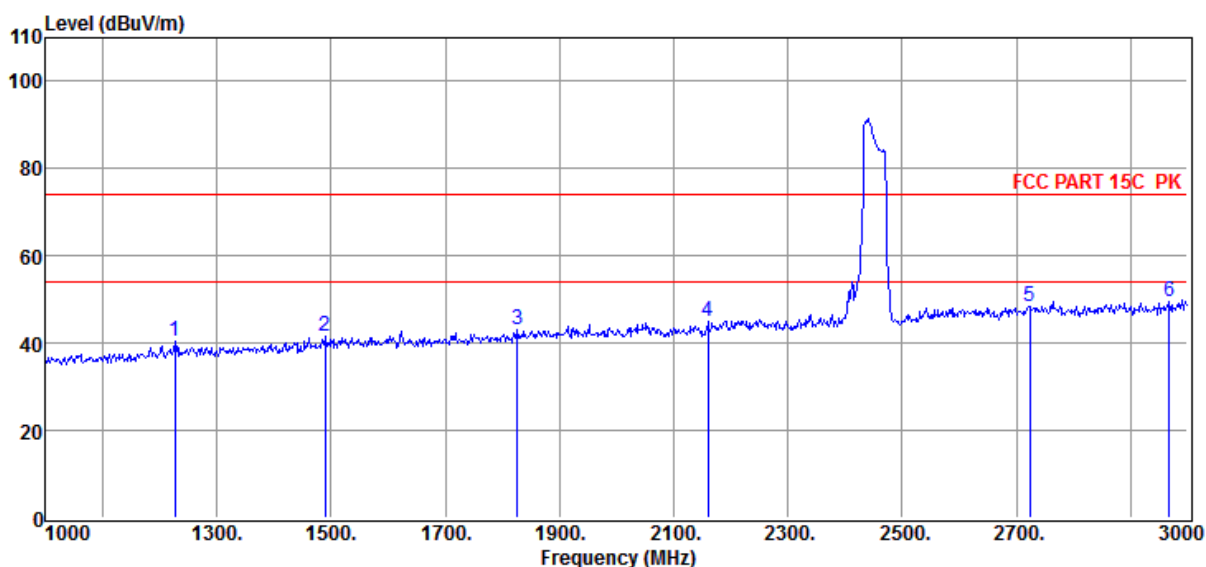
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2452MHz

Data: 90



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	1226.00	-5.01	40.28	74.00	-33.72	184	334	Peak	VERTICAL
2	1490.00	-3.06	41.56	74.00	-32.44	179	143	Peak	VERTICAL
3	1826.00	-0.71	43.07	74.00	-30.93	182	118	Peak	VERTICAL
4	2160.00	1.39	44.80	74.00	-29.20	175	210	Peak	VERTICAL
5	2724.00	6.27	48.25	74.00	-25.75	159	105	Peak	VERTICAL
6	2968.00	7.27	49.43	74.00	-24.57	153	171	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit.

Radiated Emission test (3 GHz – 18GHz)

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

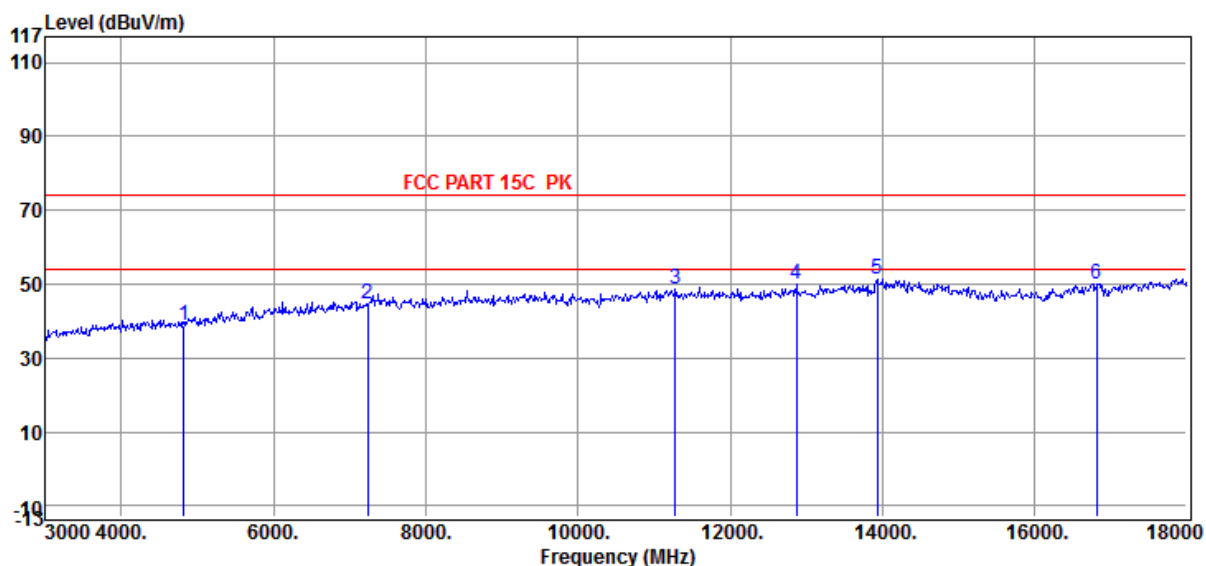
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2412MHz

Data: 1



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4824.00	0.83	38.82	74.00	-35.18	168	170	Peak	HORIZONTAL
2	7236.00	6.19	44.83	74.00	-29.17	163	102	Peak	HORIZONTAL
3	11280.00	10.15	48.67	74.00	-25.33	177	137	Peak	HORIZONTAL
4	12870.00	9.99	50.06	74.00	-23.94	169	167	Peak	HORIZONTAL
5	13935.00	12.73	51.52	74.00	-22.48	183	301	Peak	HORIZONTAL
6	16815.00	15.35	50.08	74.00	-23.92	153	269	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

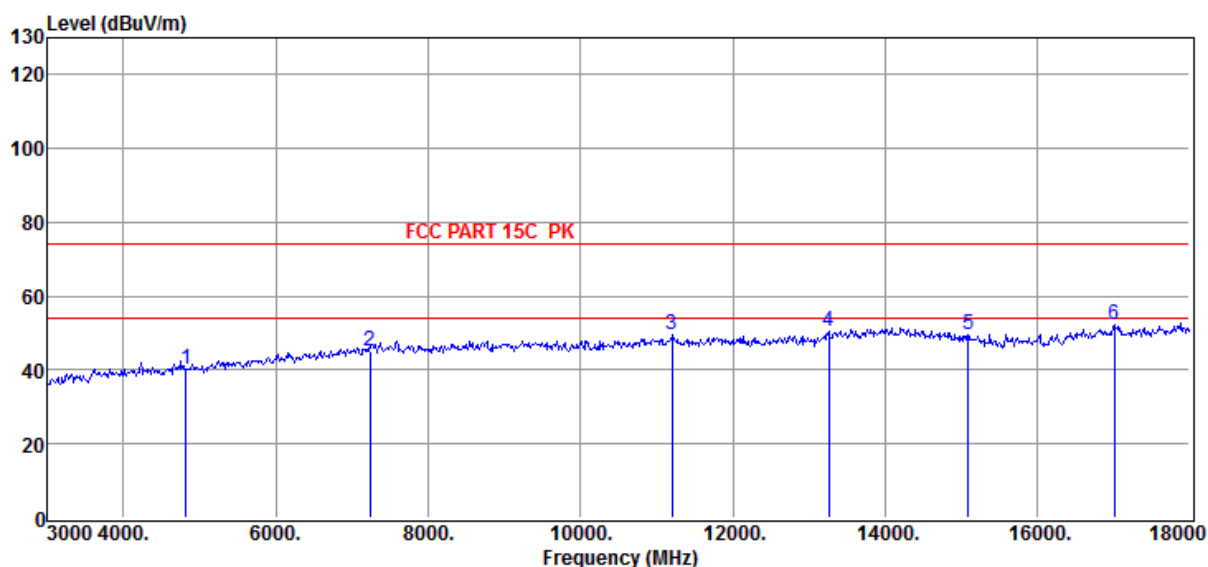
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2412MHz

Data: 2



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4824.00	0.83	40.43	74.00	-33.57	171	17	Peak	VERTICAL
2	7236.00	6.19	45.18	74.00	-28.82	150	306	Peak	VERTICAL
3	11205.00	10.38	49.66	74.00	-24.34	152	347	Peak	VERTICAL
4	13260.00	10.66	50.63	74.00	-23.37	168	213	Peak	VERTICAL
5	15090.00	12.30	49.77	74.00	-24.23	160	22	Peak	VERTICAL
6	17010.00	16.24	52.18	74.00	-21.82	189	293	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

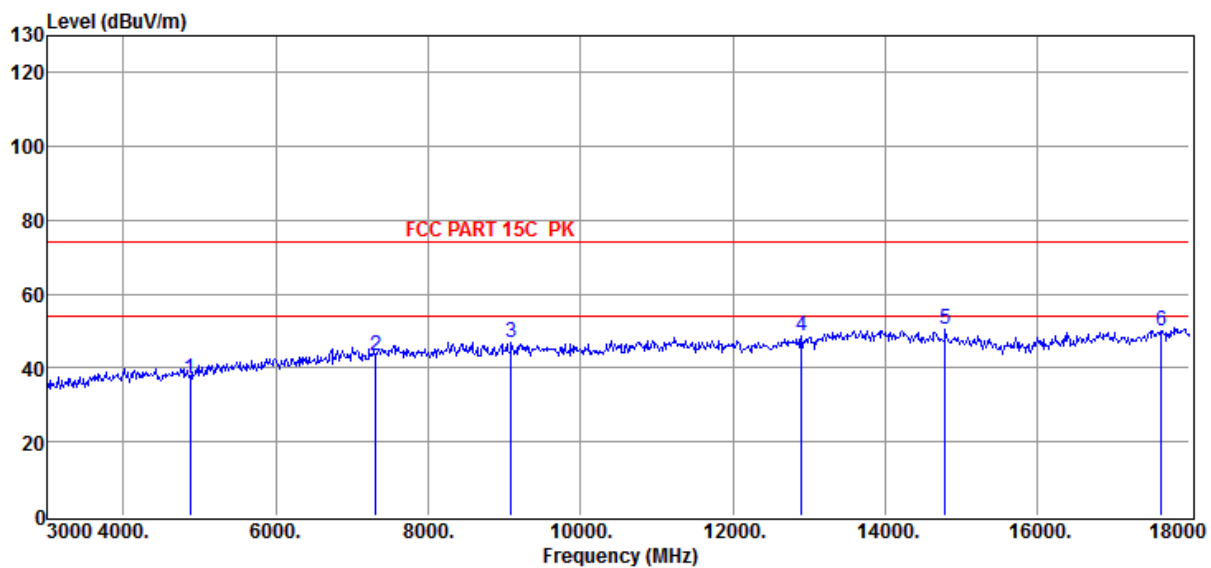
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2437MHz

Data: 3



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4874.00	0.92	37.23	74.00	-36.77	167	20	Peak	VERTICAL
2	7311.00	6.34	43.45	74.00	-30.55	157	72	Peak	VERTICAL
3	9090.00	7.06	46.80	74.00	-27.20	156	251	Peak	VERTICAL
4	12900.00	10.15	48.51	74.00	-25.49	177	169	Peak	VERTICAL
5	14790.00	12.88	50.52	74.00	-23.48	153	325	Peak	VERTICAL
6	17625.00	15.28	50.22	74.00	-23.78	184	110	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

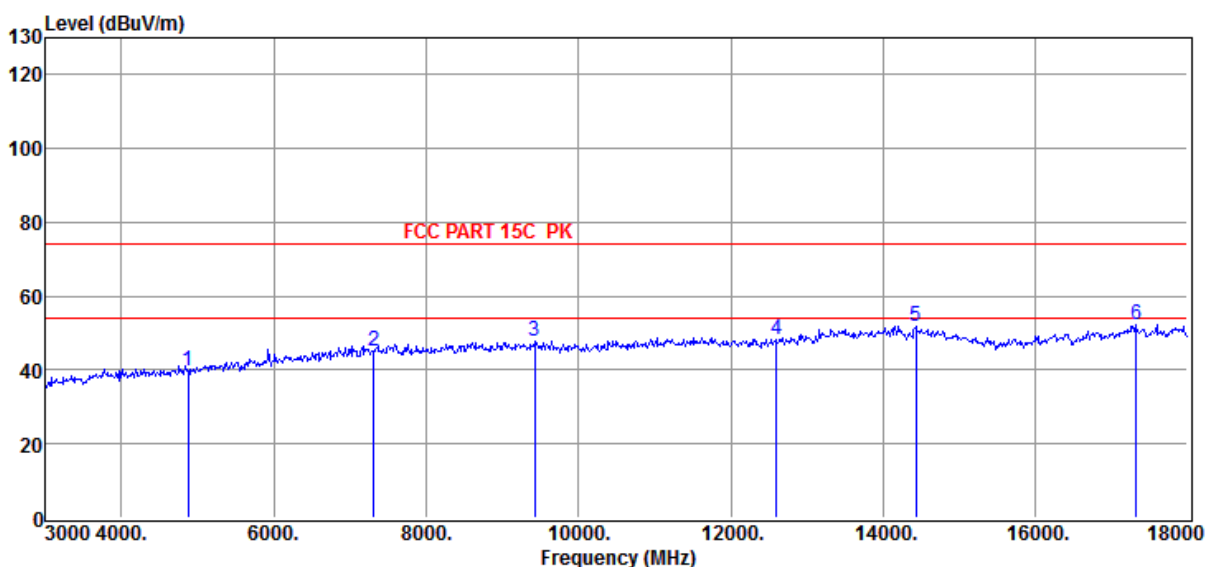
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2437MHz

Data: 4



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4874.00	0.92	39.96	74.00	-34.04	154	332	Peak	HORIZONTAL
2	7311.00	6.34	44.97	74.00	-29.03	179	249	Peak	HORIZONTAL
3	9420.00	8.11	47.75	74.00	-26.25	157	342	Peak	HORIZONTAL
4	12600.00	9.82	48.41	74.00	-25.59	175	61	Peak	HORIZONTAL
5	14430.00	13.54	51.61	74.00	-22.39	167	59	Peak	HORIZONTAL
6	17325.00	15.77	52.24	74.00	-21.76	181	90	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

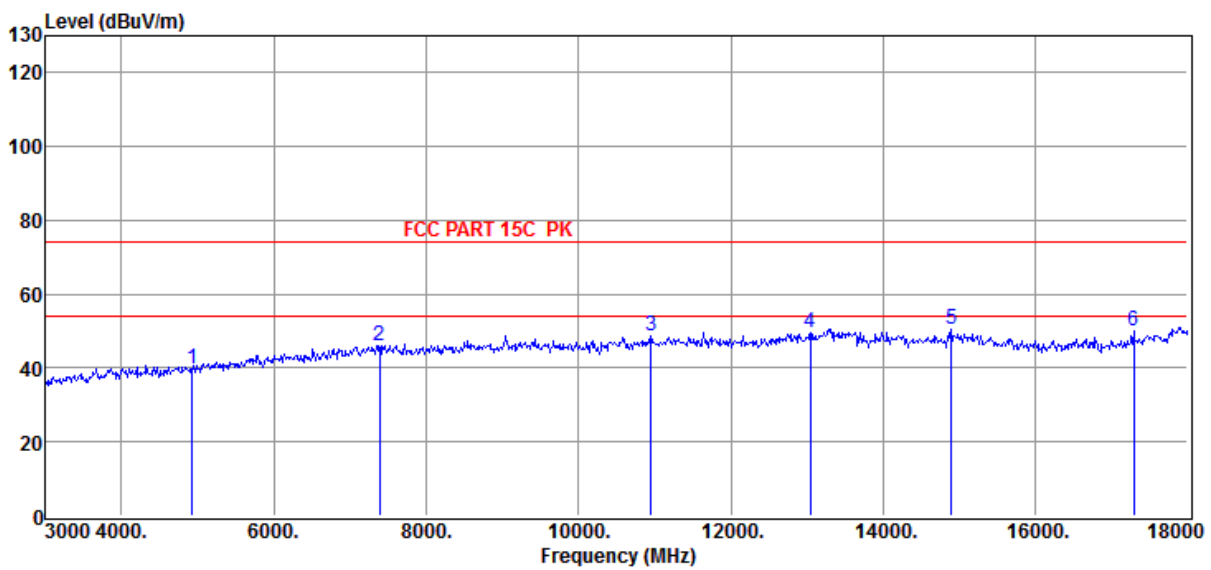
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2462MHz

Data: 5



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4924.00	1.07	39.79	74.00	-34.21	168	237	Peak	HORIZONTAL
2	7386.00	6.24	46.17	74.00	-27.83	178	90	Peak	HORIZONTAL
3	10950.00	9.68	48.87	74.00	-25.13	189	267	Peak	HORIZONTAL
4	13050.00	10.22	49.39	74.00	-24.61	156	269	Peak	HORIZONTAL
5	14895.00	12.09	50.32	74.00	-23.68	182	322	Peak	HORIZONTAL
6	17295.00	15.81	49.94	74.00	-24.06	169	330	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

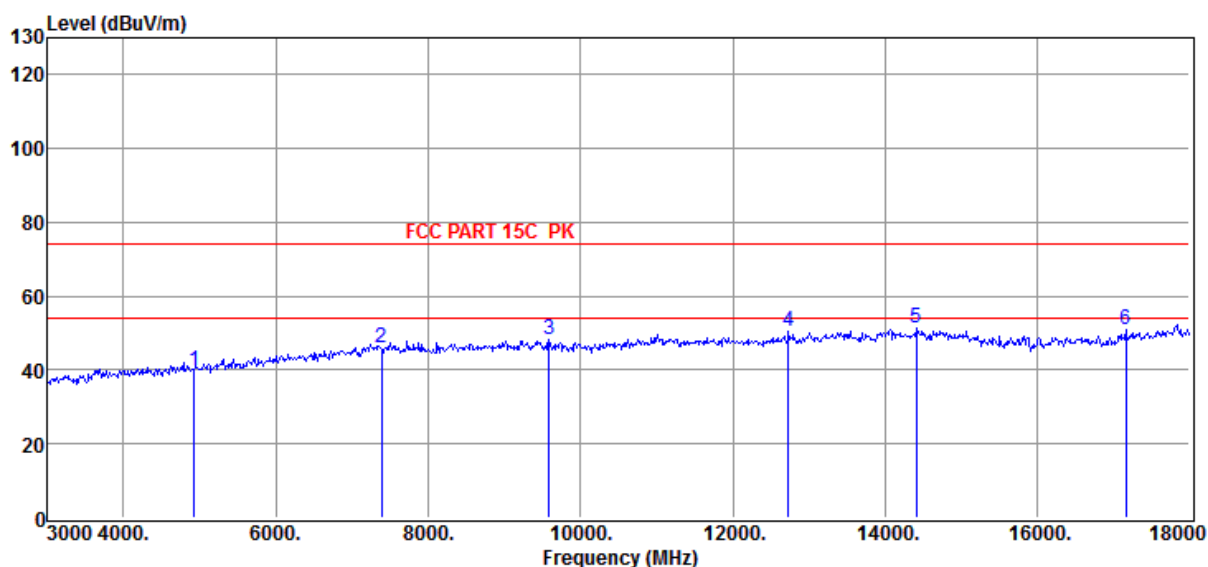
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2462MHz

Data: 6



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4924.00	1.07	39.85	74.00	-34.15	157	250	Peak	VERTICAL
2	7386.00	6.24	45.81	74.00	-28.19	162	342	Peak	VERTICAL
3	9585.00	8.04	48.14	74.00	-25.86	181	203	Peak	VERTICAL
4	12735.00	9.78	50.50	74.00	-23.50	157	2	Peak	VERTICAL
5	14415.00	13.68	51.33	74.00	-22.67	187	343	Peak	VERTICAL
6	17160.00	15.55	50.72	74.00	-23.28	177	332	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

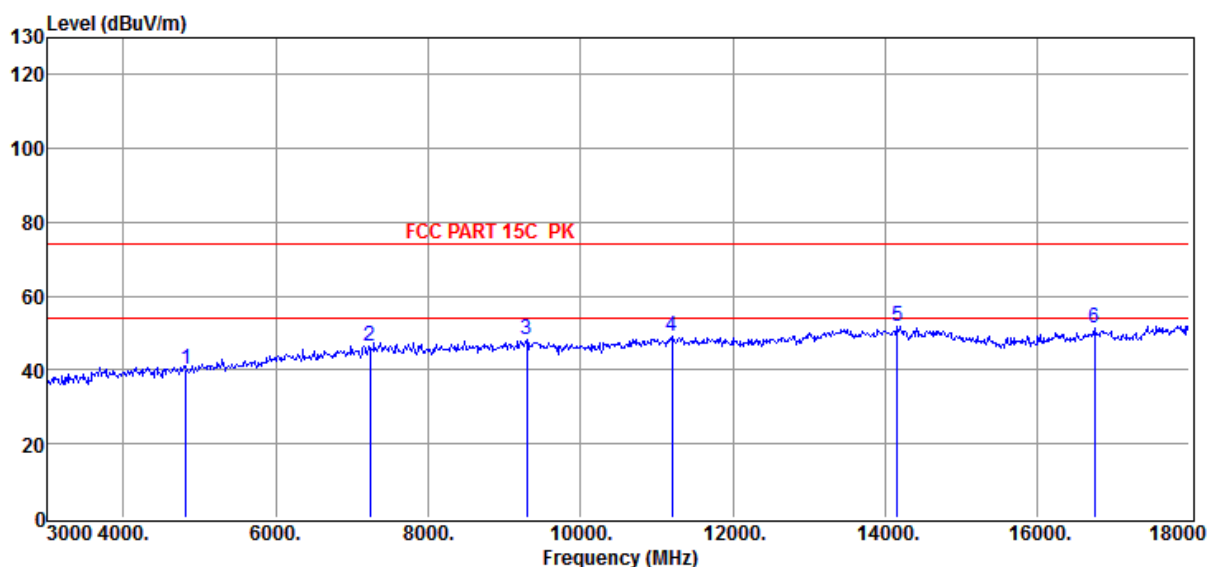
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2412MHz

Data: 7



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4824.00	0.83	40.18	74.00	-33.82	187	179	Peak	VERTICAL
2	7236.00	6.19	46.54	74.00	-27.46	170	144	Peak	VERTICAL
3	9300.00	7.67	48.29	74.00	-25.71	181	116	Peak	VERTICAL
4	11205.00	10.38	49.05	74.00	-24.95	153	51	Peak	VERTICAL
5	14160.00	13.67	51.93	74.00	-22.07	185	103	Peak	VERTICAL
6	16755.00	14.88	51.34	74.00	-22.66	162	295	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

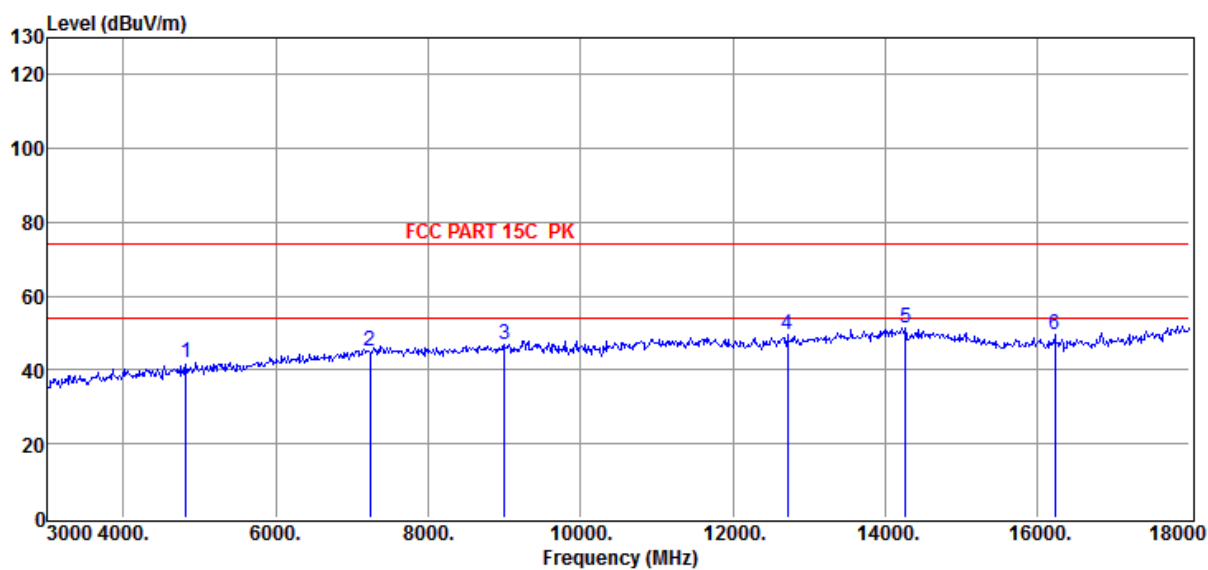
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2412MHz

Data: 8



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4824.00	0.83	42.03	74.00	-31.97	167	155	Peak	HORIZONTAL
2	7236.00	6.19	45.23	74.00	-28.77	177	250	Peak	HORIZONTAL
3	9000.00	7.18	46.92	74.00	-27.08	187	156	Peak	HORIZONTAL
4	12720.00	9.83	49.71	74.00	-24.29	174	42	Peak	HORIZONTAL
5	14265.00	13.28	51.29	74.00	-22.71	156	345	Peak	HORIZONTAL
6	16230.00	11.51	49.46	74.00	-24.54	153	269	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

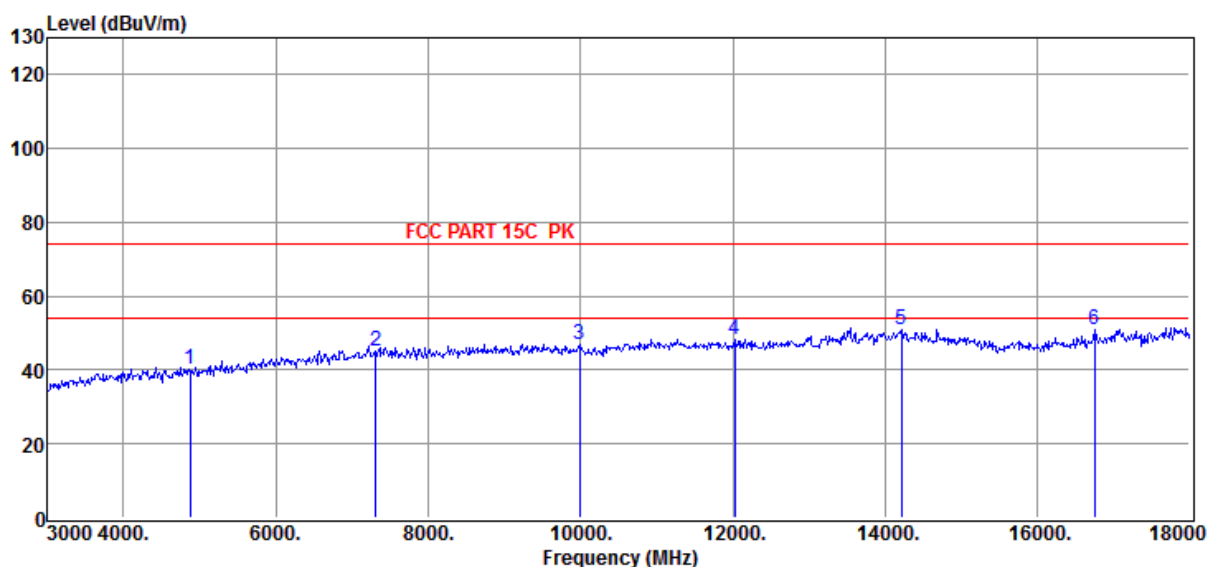
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2437MHz

Data: 9



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4874.00	0.92	40.28	74.00	-33.72	158	52	Peak	HORIZONTAL
2	7311.00	6.34	45.13	74.00	-28.87	162	294	Peak	HORIZONTAL
3	9990.00	7.98	47.03	74.00	-26.97	179	345	Peak	HORIZONTAL
4	12030.00	9.83	48.18	74.00	-25.82	186	319	Peak	HORIZONTAL
5	14220.00	13.82	51.14	74.00	-22.86	166	118	Peak	HORIZONTAL
6	16755.00	14.88	50.99	74.00	-23.01	190	334	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

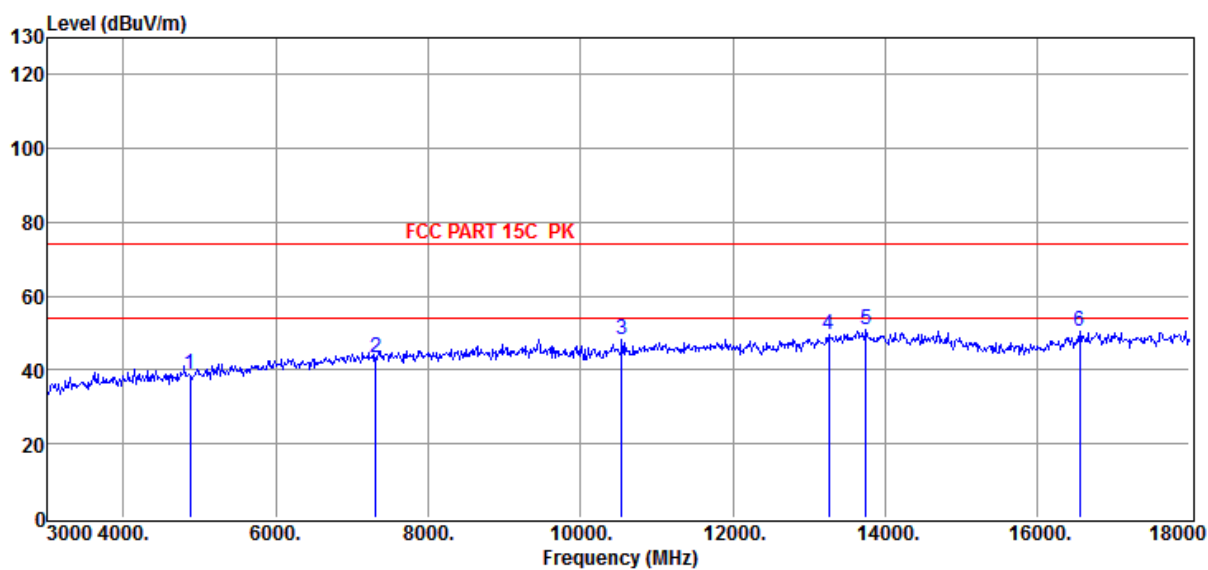
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2437MHz

Data: 10



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4874.00	0.92	38.95	74.00	-35.05	150	41	Peak	VERTICAL
2	7311.00	6.34	43.45	74.00	-30.55	185	125	Peak	VERTICAL
3	10545.00	9.04	48.33	74.00	-25.67	165	169	Peak	VERTICAL
4	13260.00	10.66	49.63	74.00	-24.37	161	43	Peak	VERTICAL
5	13755.00	11.96	50.83	74.00	-23.17	156	44	Peak	VERTICAL
6	16560.00	13.63	50.55	74.00	-23.45	172	46	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

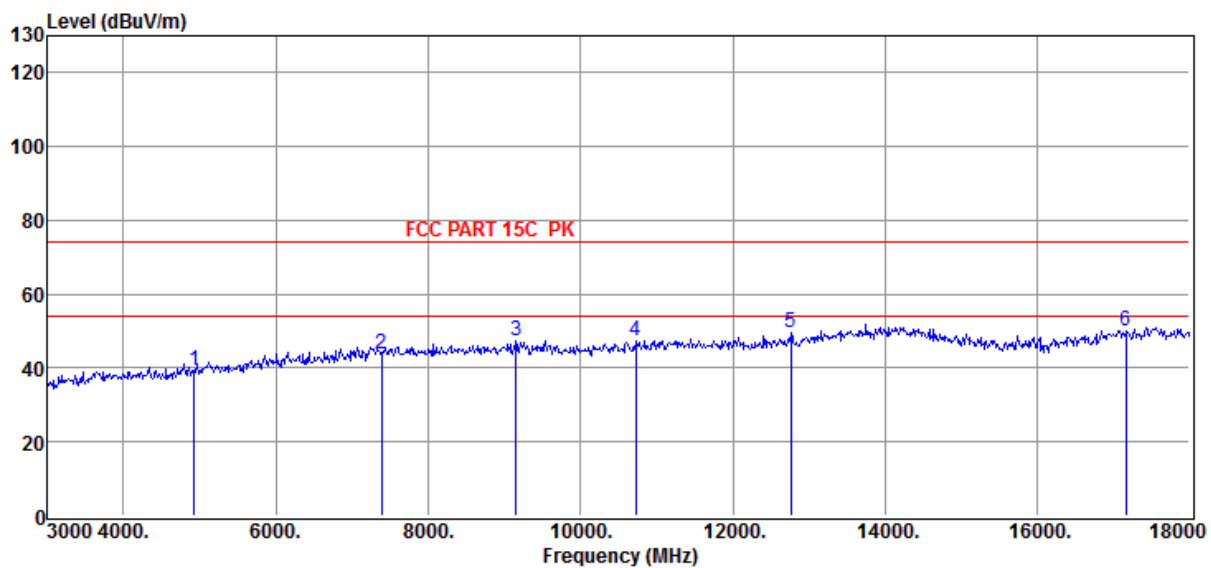
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2462MHz

Data: 11



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4924.00	1.07	39.45	74.00	-34.55	184	41	Peak	VERTICAL
2	7386.00	6.24	43.96	74.00	-30.04	160	141	Peak	VERTICAL
3	9150.00	7.17	47.25	74.00	-26.75	157	36	Peak	VERTICAL
4	10725.00	9.24	47.51	74.00	-26.49	155	108	Peak	VERTICAL
5	12765.00	9.71	49.51	74.00	-24.49	185	156	Peak	VERTICAL
6	17160.00	15.55	50.21	74.00	-23.79	170	97	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

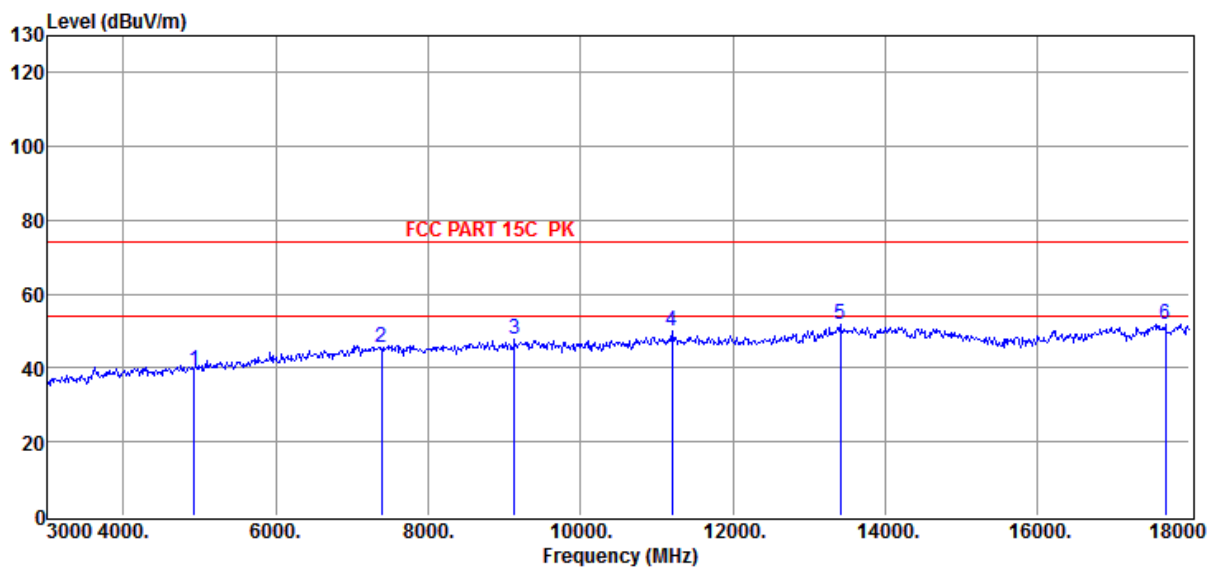
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2462MHz

Data: 12



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4924.00	1.07	39.10	74.00	-34.90	183	39	Peak	HORIZONTAL
2	7386.00	6.24	45.35	74.00	-28.65	177	106	Peak	HORIZONTAL
3	9135.00	7.13	47.69	74.00	-26.31	174	154	Peak	HORIZONTAL
4	11205.00	10.38	49.86	74.00	-24.14	165	312	Peak	HORIZONTAL
5	13410.00	10.85	52.00	74.00	-22.00	155	236	Peak	HORIZONTAL
6	17685.00	14.91	51.80	74.00	-22.20	177	327	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

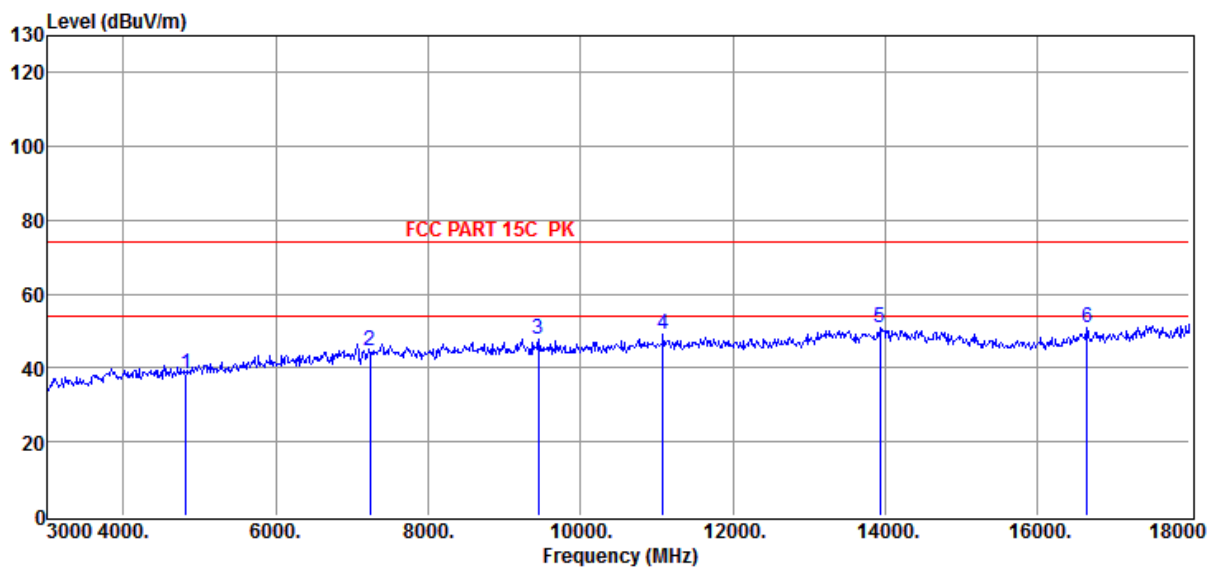
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2412MHz

Data: 13



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4824.00	0.83	38.59	74.00	-35.41	164	334	Peak	HORIZONTAL
2	7236.00	6.19	44.88	74.00	-29.12	167	124	Peak	HORIZONTAL
3	9450.00	7.98	47.94	74.00	-26.06	179	45	Peak	HORIZONTAL
4	11085.00	9.99	49.05	74.00	-24.95	173	64	Peak	HORIZONTAL
5	13935.00	12.73	50.80	74.00	-23.20	186	212	Peak	HORIZONTAL
6	16650.00	14.11	51.04	74.00	-22.96	186	19	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

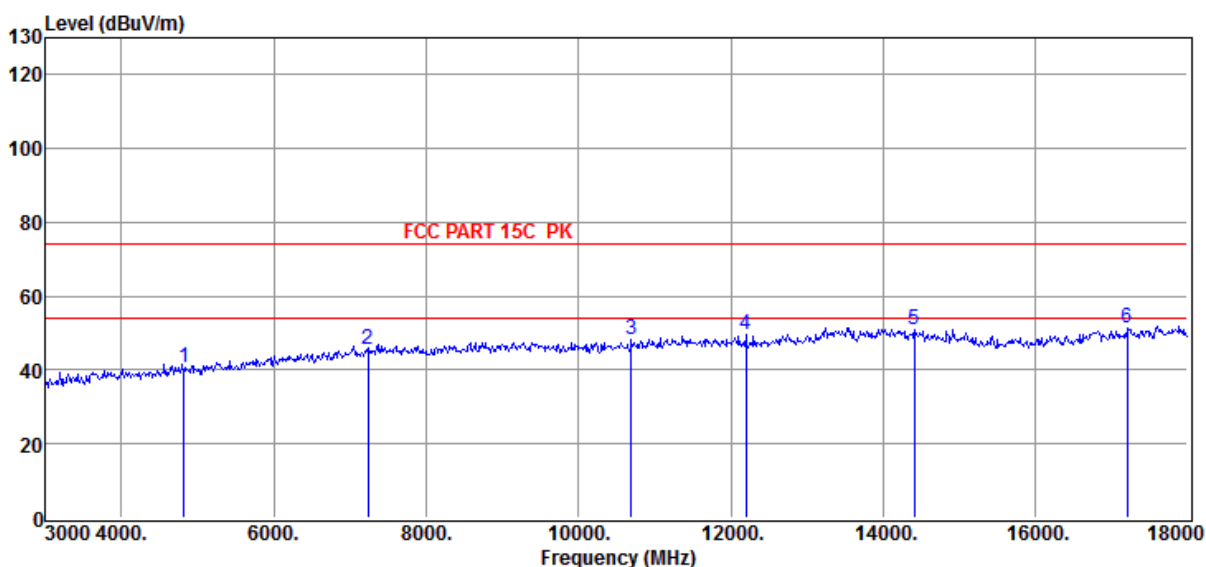
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2412MHz

Data: 14



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4824.00	0.83	40.71	74.00	-33.29	180	265	Peak	VERTICAL
2	7236.00	6.19	45.75	74.00	-28.25	182	280	Peak	VERTICAL
3	10695.00	9.10	48.20	74.00	-25.80	159	296	Peak	VERTICAL
4	12195.00	9.69	49.39	74.00	-24.61	159	257	Peak	VERTICAL
5	14415.00	13.68	51.05	74.00	-22.95	152	238	Peak	VERTICAL
6	17205.00	15.57	51.56	74.00	-22.44	161	330	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

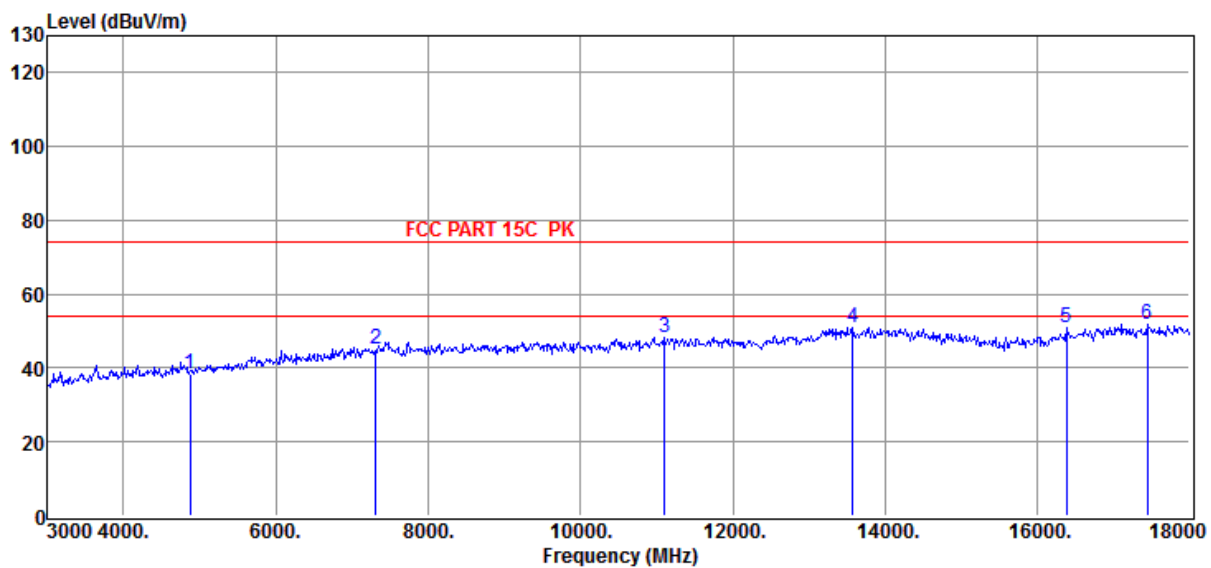
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2437MHz

Data: 15



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4874.00	0.92	38.38	74.00	-35.62	170	333	Peak	VERTICAL
2	7311.00	6.34	45.09	74.00	-28.91	190	142	Peak	VERTICAL
3	11100.00	10.01	48.41	74.00	-25.59	177	89	Peak	VERTICAL
4	13575.00	11.43	51.04	74.00	-22.96	169	163	Peak	VERTICAL
5	16380.00	12.33	50.84	74.00	-23.16	153	179	Peak	VERTICAL
6	17445.00	15.59	51.98	74.00	-22.02	190	359	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

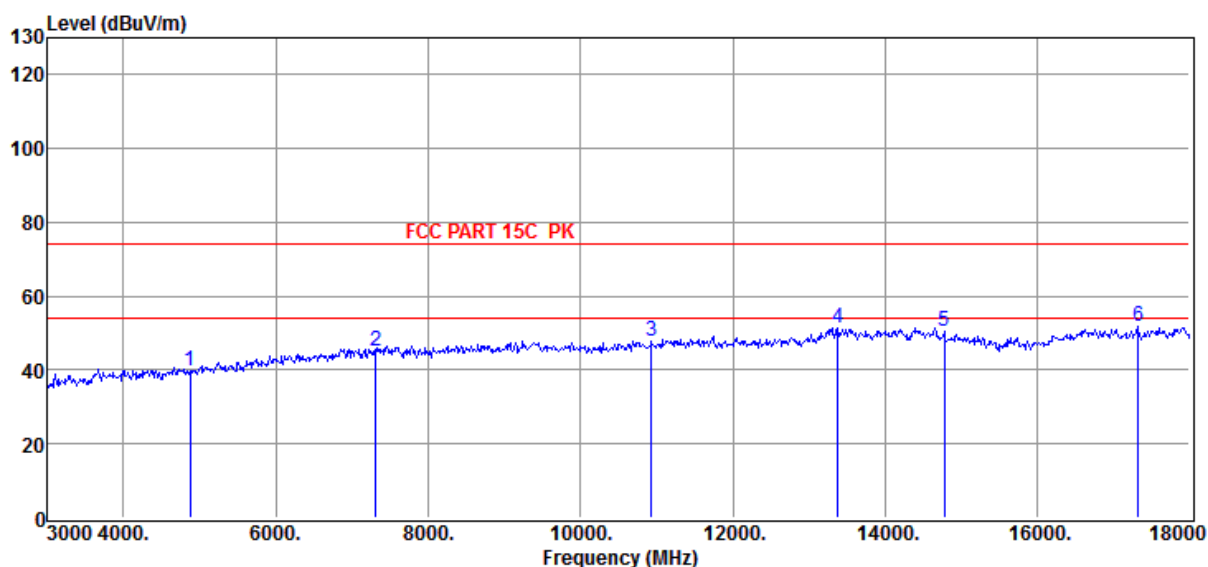
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2437MHz

Data: 16



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4874.00	0.92	39.94	74.00	-34.06	155	284	Peak	HORIZONTAL
2	7311.00	6.34	45.17	74.00	-28.83	162	238	Peak	HORIZONTAL
3	10935.00	9.62	47.72	74.00	-26.28	182	181	Peak	HORIZONTAL
4	13380.00	10.81	51.25	74.00	-22.75	161	347	Peak	HORIZONTAL
5	14775.00	12.82	50.66	74.00	-23.34	171	266	Peak	HORIZONTAL
6	17325.00	15.77	51.60	74.00	-22.40	181	265	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

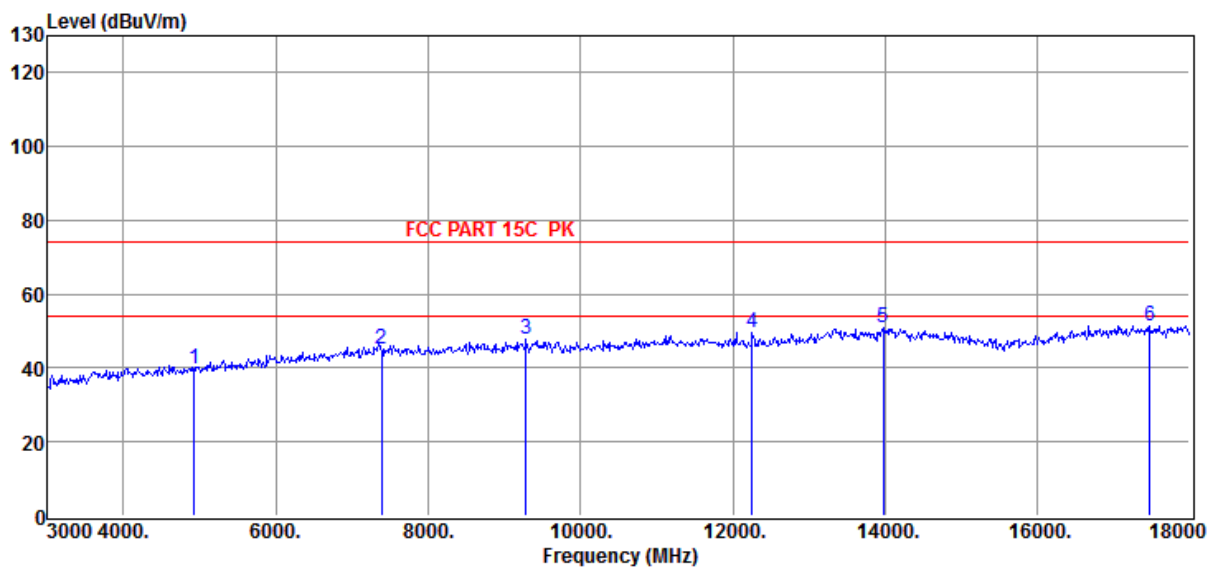
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2462MHz

Data: 17



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4924.00	1.07	39.93	74.00	-34.07	170	276	Peak	HORIZONTAL
2	7386.00	6.24	44.95	74.00	-29.05	165	137	Peak	HORIZONTAL
3	9285.00	7.61	47.73	74.00	-26.27	189	281	Peak	HORIZONTAL
4	12255.00	9.45	49.65	74.00	-24.35	155	96	Peak	HORIZONTAL
5	13980.00	12.92	50.89	74.00	-23.11	163	88	Peak	HORIZONTAL
6	17475.00	15.60	51.53	74.00	-22.47	161	341	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

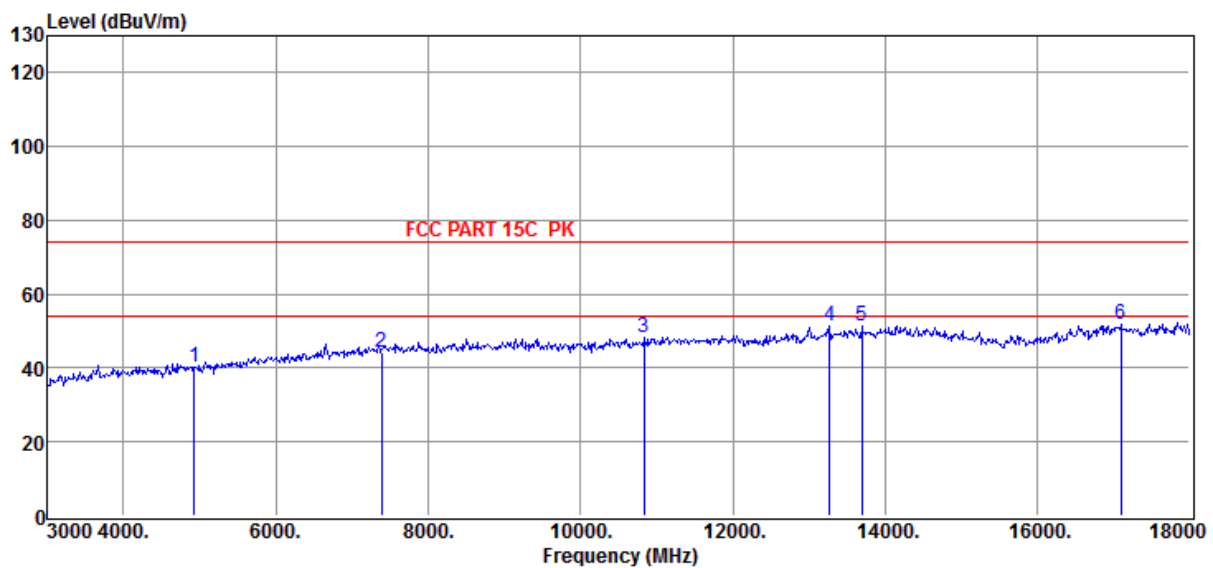
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2462MHz

Data: 18



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4924.00	1.07	40.19	74.00	-33.81	154	277	Peak	VERTICAL
2	7386.00	6.24	44.36	74.00	-29.64	178	71	Peak	VERTICAL
3	10830.00	9.61	48.27	74.00	-25.73	153	15	Peak	VERTICAL
4	13275.00	10.76	51.23	74.00	-22.77	152	154	Peak	VERTICAL
5	13695.00	11.88	51.43	74.00	-22.57	160	75	Peak	VERTICAL
6	17100.00	15.56	51.84	74.00	-22.16	151	286	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

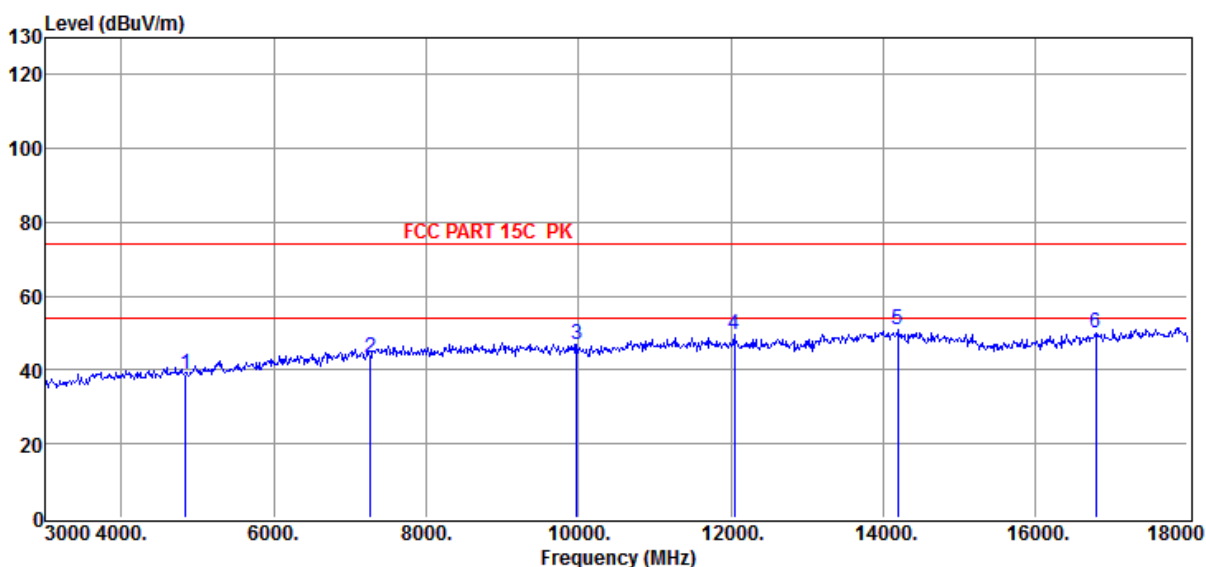
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2422MHz

Data: 19



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4844.00	0.88	38.95	74.00	-35.05	155	331	Peak	VERTICAL
2	7266.00	6.37	43.53	74.00	-30.47	155	5	Peak	VERTICAL
3	9975.00	8.03	47.11	74.00	-26.89	153	316	Peak	VERTICAL
4	12045.00	9.84	49.62	74.00	-24.38	153	142	Peak	VERTICAL
5	14190.00	13.97	51.04	74.00	-22.96	165	298	Peak	VERTICAL
6	16800.00	15.44	50.05	74.00	-23.95	154	164	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

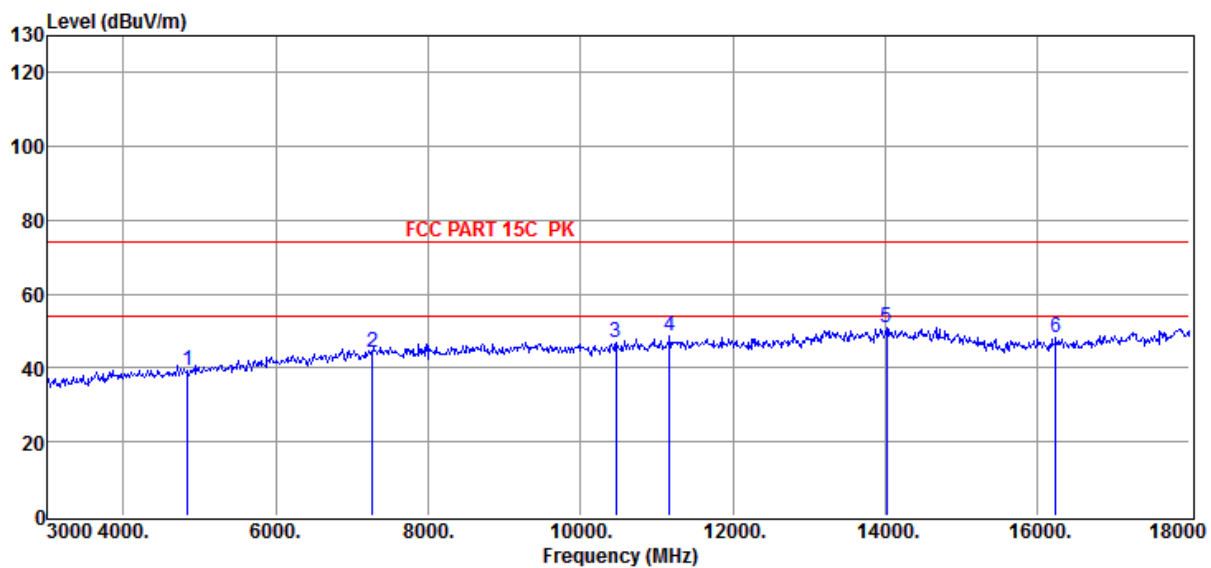
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2422MHz

Data: 20



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4844.00	0.88	39.25	74.00	-34.75	172	16	Peak	HORIZONTAL
2	7266.00	6.37	44.12	74.00	-29.88	152	216	Peak	HORIZONTAL
3	10470.00	8.91	47.04	74.00	-26.96	172	123	Peak	HORIZONTAL
4	11175.00	10.30	48.84	74.00	-25.16	188	100	Peak	HORIZONTAL
5	14025.00	13.02	51.14	74.00	-22.86	178	104	Peak	HORIZONTAL
6	16245.00	11.65	48.03	74.00	-25.97	164	115	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

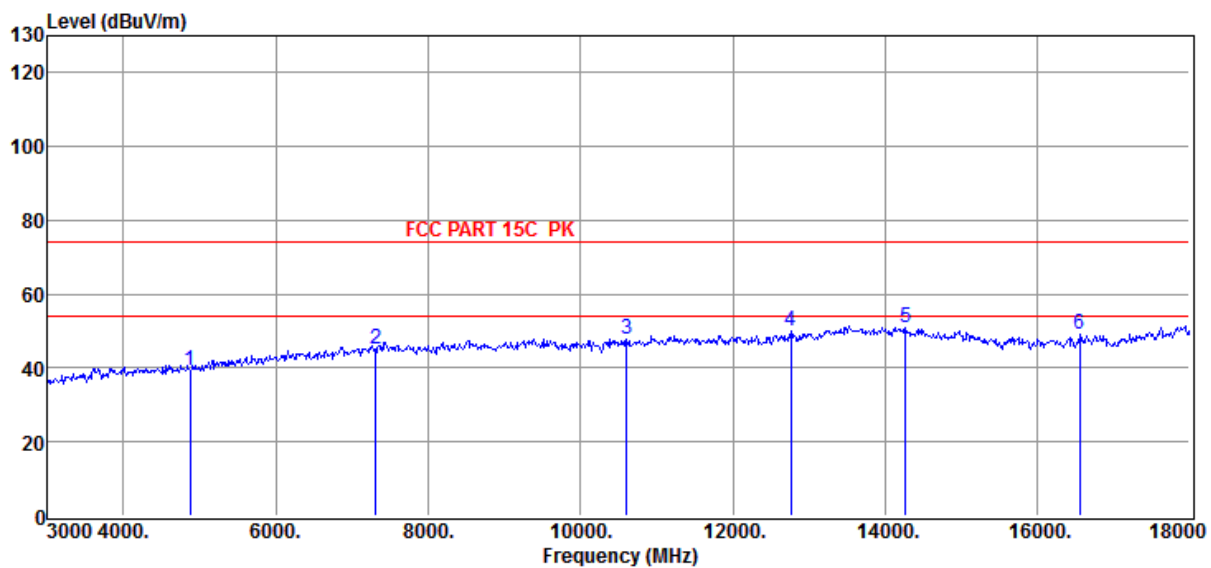
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2437MHz

Data: 21



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4874.00	0.92	39.29	74.00	-34.71	158	223	Peak	HORIZONTAL
2	7311.00	6.34	45.23	74.00	-28.77	187	125	Peak	HORIZONTAL
3	10605.00	9.16	47.65	74.00	-26.35	158	145	Peak	HORIZONTAL
4	12765.00	9.71	49.99	74.00	-24.01	190	355	Peak	HORIZONTAL
5	14265.00	13.28	51.03	74.00	-22.97	156	119	Peak	HORIZONTAL
6	16560.00	13.63	49.29	74.00	-24.71	179	301	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

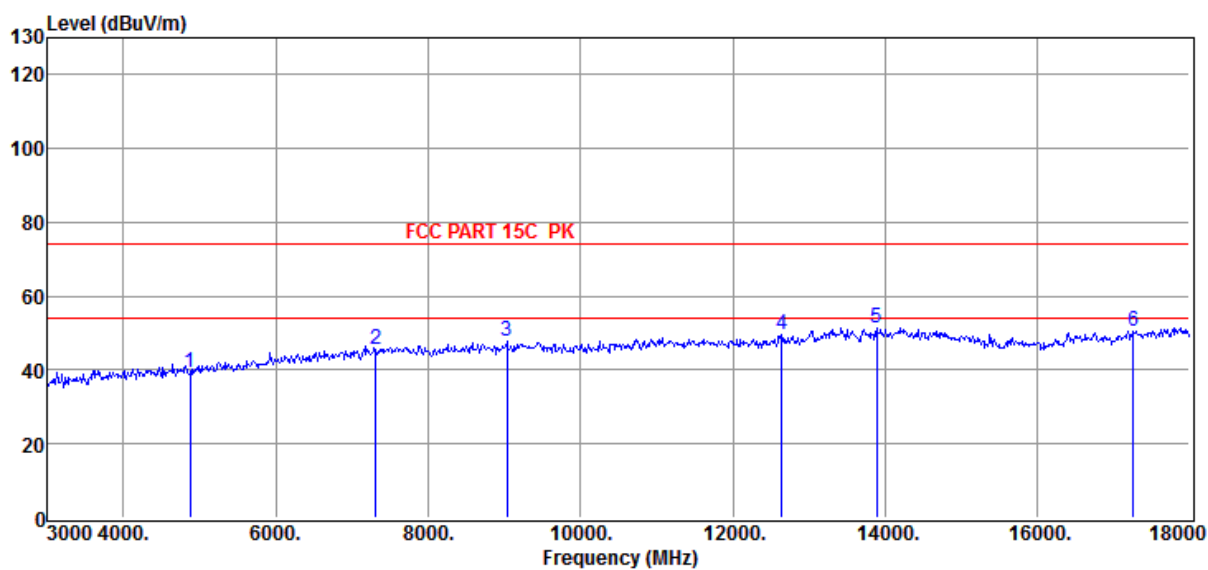
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2437MHz

Data: 22



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4874.00	0.92	39.34	74.00	-34.66	155	152	Peak	VERTICAL
2	7311.00	6.34	45.73	74.00	-28.27	167	102	Peak	VERTICAL
3	9030.00	7.14	47.72	74.00	-26.28	153	234	Peak	VERTICAL
4	12645.00	9.85	49.65	74.00	-24.35	160	283	Peak	VERTICAL
5	13890.00	12.52	51.37	74.00	-22.63	166	49	Peak	VERTICAL
6	17265.00	15.73	50.44	74.00	-23.56	168	228	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

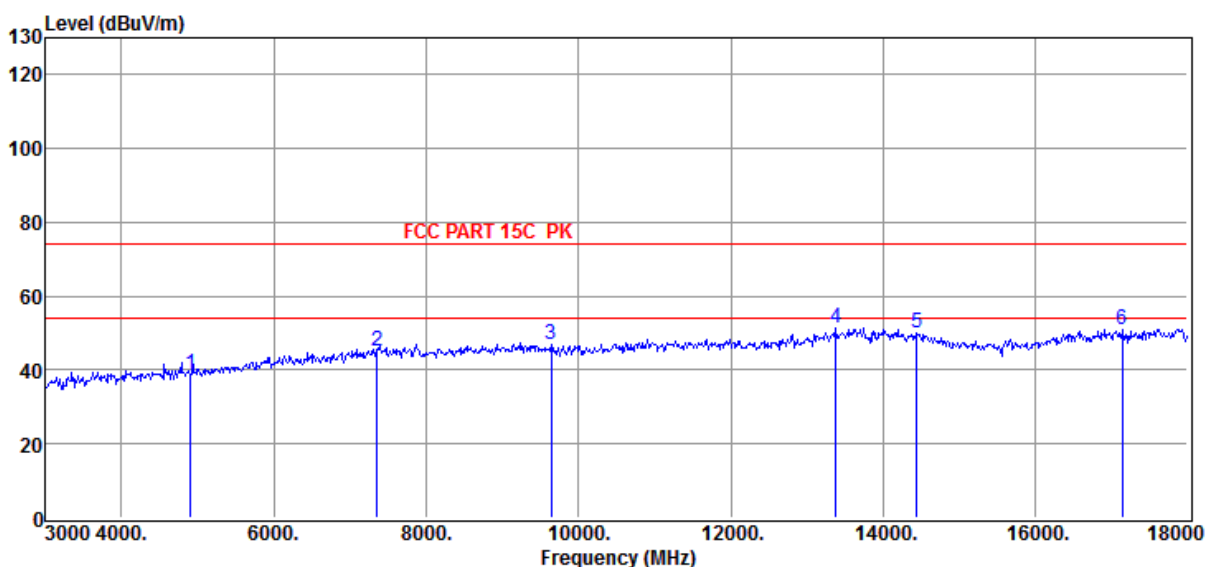
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2452MHz

Data: 23



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4904.00	0.96	38.69	74.00	-35.31	158	130	Peak	VERTICAL
2	7356.00	6.52	45.31	74.00	-28.69	174	226	Peak	VERTICAL
3	9645.00	8.08	46.70	74.00	-27.30	179	285	Peak	VERTICAL
4	13380.00	10.81	51.54	74.00	-22.46	164	82	Peak	VERTICAL
5	14445.00	13.39	49.90	74.00	-24.10	180	178	Peak	VERTICAL
6	17145.00	15.55	51.13	74.00	-22.87	167	225	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

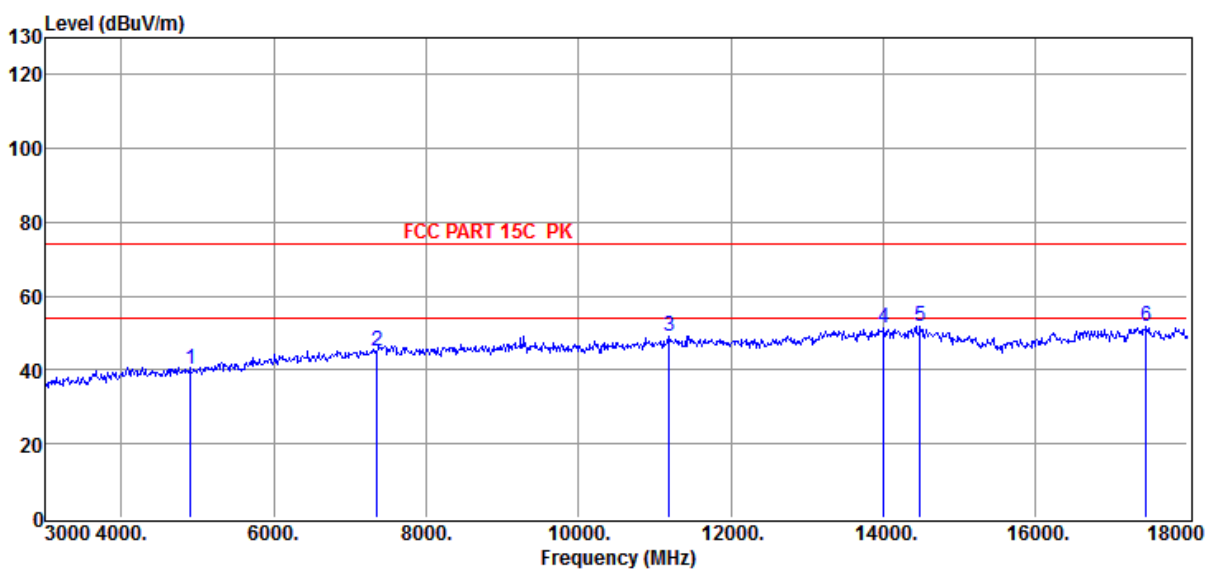
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2452MHz

Data: 24



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	4904.00	0.96	40.01	74.00	-33.99	176	78	Peak	HORIZONTAL
2	7356.00	6.52	45.20	74.00	-28.80	186	224	Peak	HORIZONTAL
3	11190.00	10.36	49.00	74.00	-25.00	155	243	Peak	HORIZONTAL
4	14010.00	13.01	51.46	74.00	-22.54	152	273	Peak	HORIZONTAL
5	14490.00	12.93	52.04	74.00	-21.96	175	253	Peak	HORIZONTAL
6	17460.00	15.59	51.82	74.00	-22.18	168	333	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

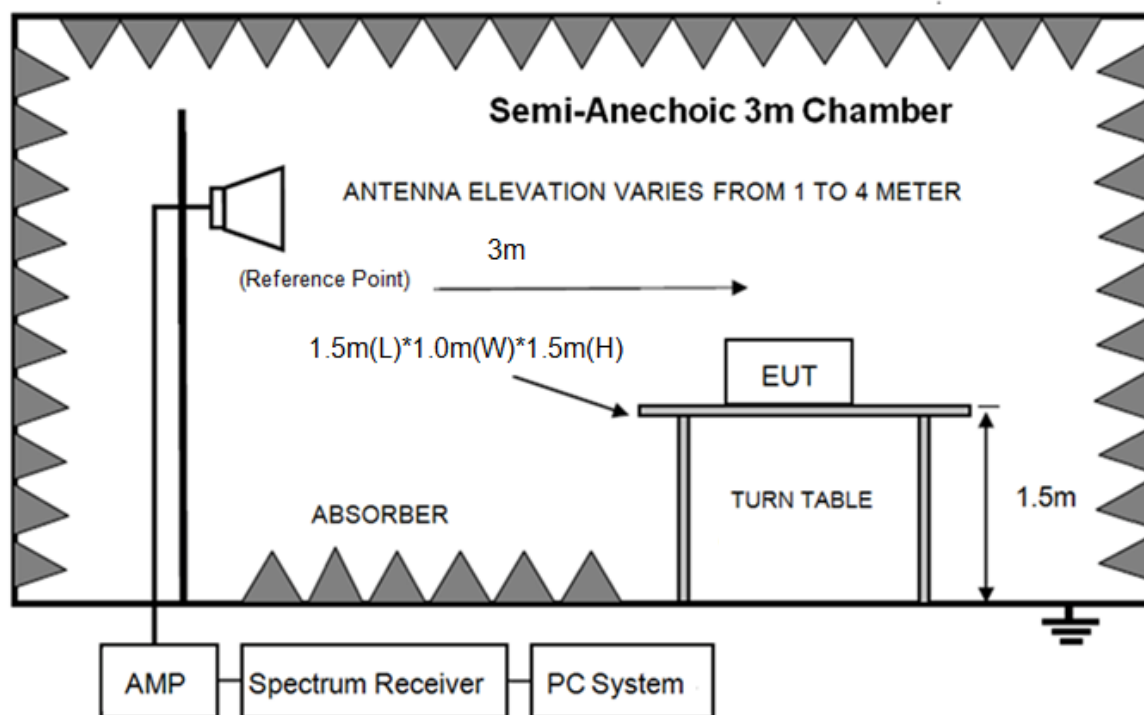
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

6. Band Edge Compliance (Radiated Method)

6.1. Block diagram of test setup



6.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

6.3. Test Procedure

Same with clause 10.3 except change investigated frequency range from 2310 MHz to 2430 MHz and 2445 MHz to 2550 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

6.4. Test result

Pass. (See below detailed test result)

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

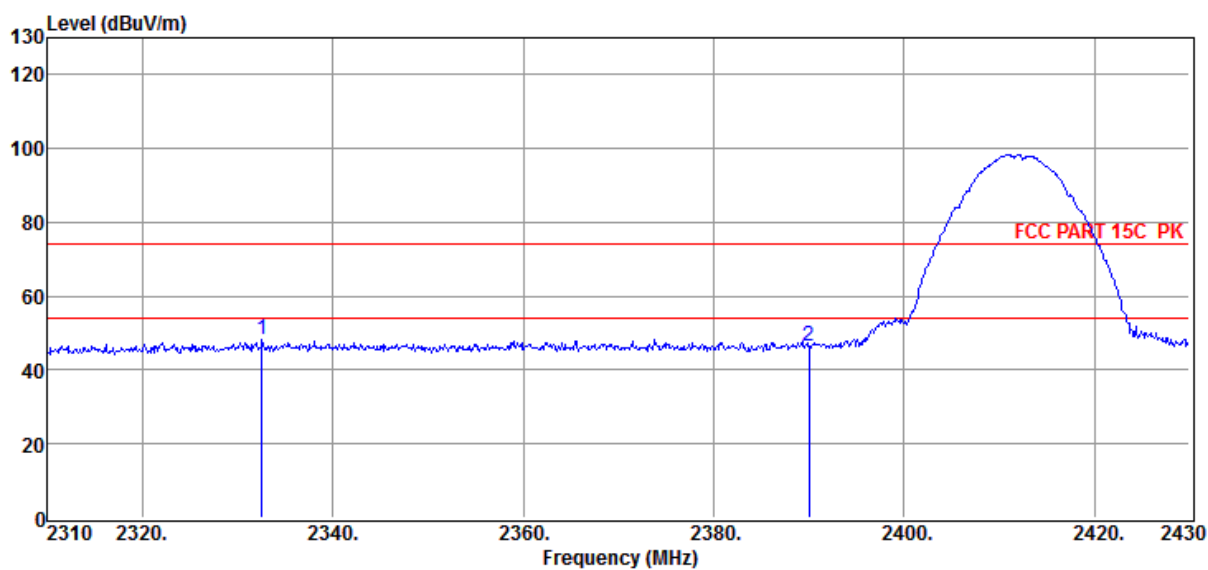
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2412MHz

Data: 25



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2332.56	2.74	48.30	74.00	-25.70	156	199	Peak	VERTICAL
2	2390.00	3.30	46.37	74.00	-27.63	164	147	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

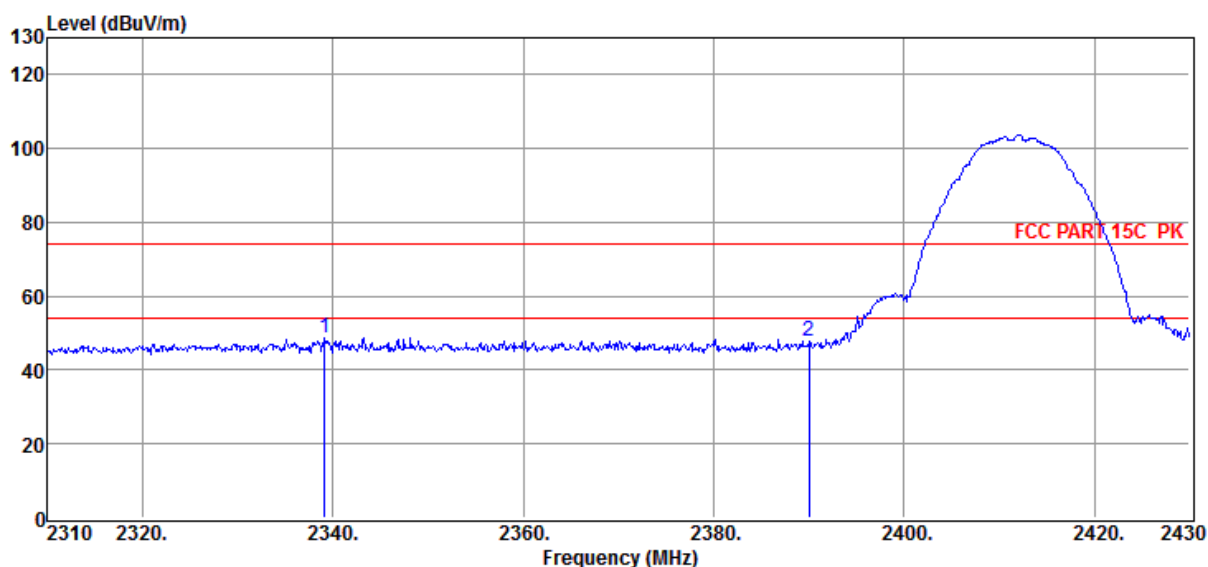
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2412 MHz

Data: 26



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2339.16	2.91	48.87	74.00	-25.13	156	205	Peak	HORIZONTAL
2	2390.00	3.30	47.62	74.00	-26.38	173	88	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

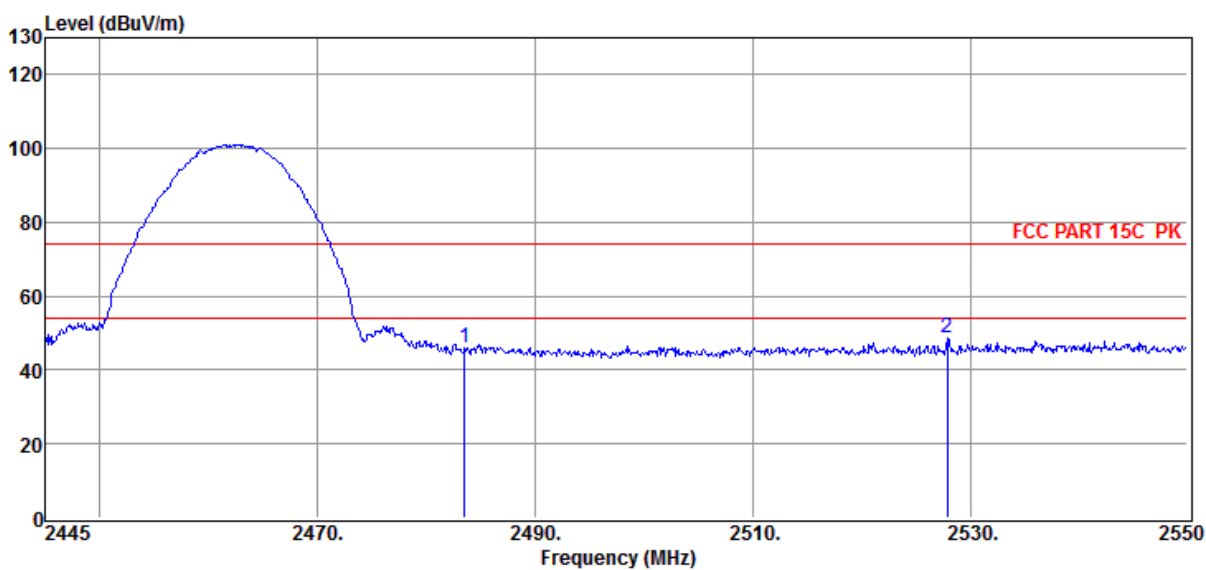
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2462 MHz

Data: 27



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	45.98	74.00	-28.02	160	221	Peak	HORIZONTAL
2	2527.95	4.29	48.82	74.00	-25.18	152	307	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

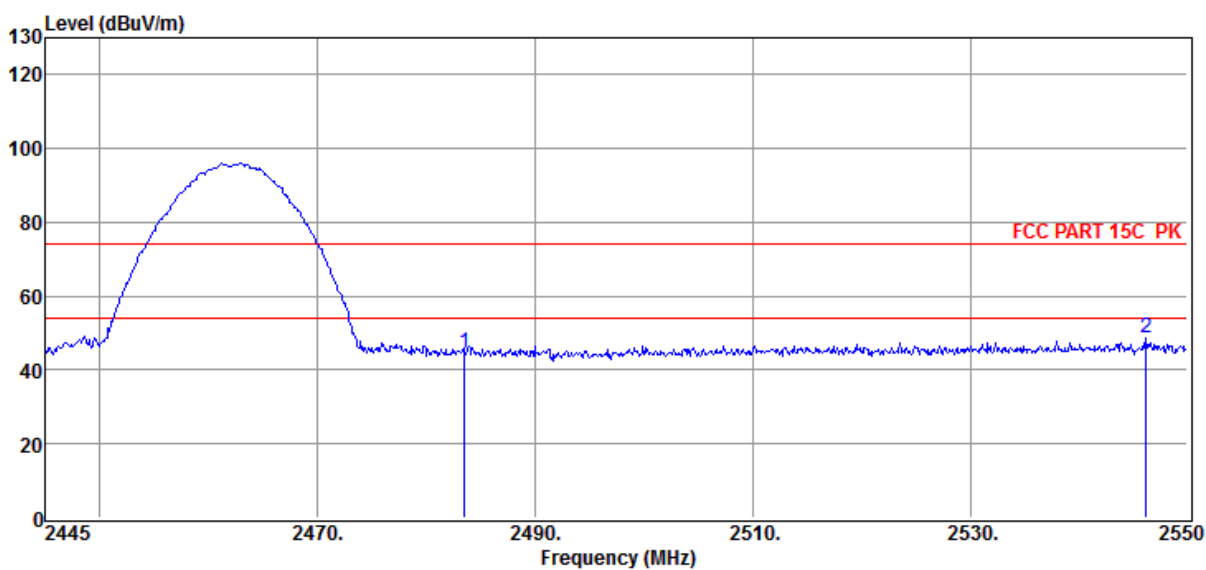
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11B 1M 2462 MHz

Data: 28



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	44.82	74.00	-29.18	159	128	Peak	VERTICAL
2	2546.22	4.70	48.71	74.00	-25.29	155	307	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

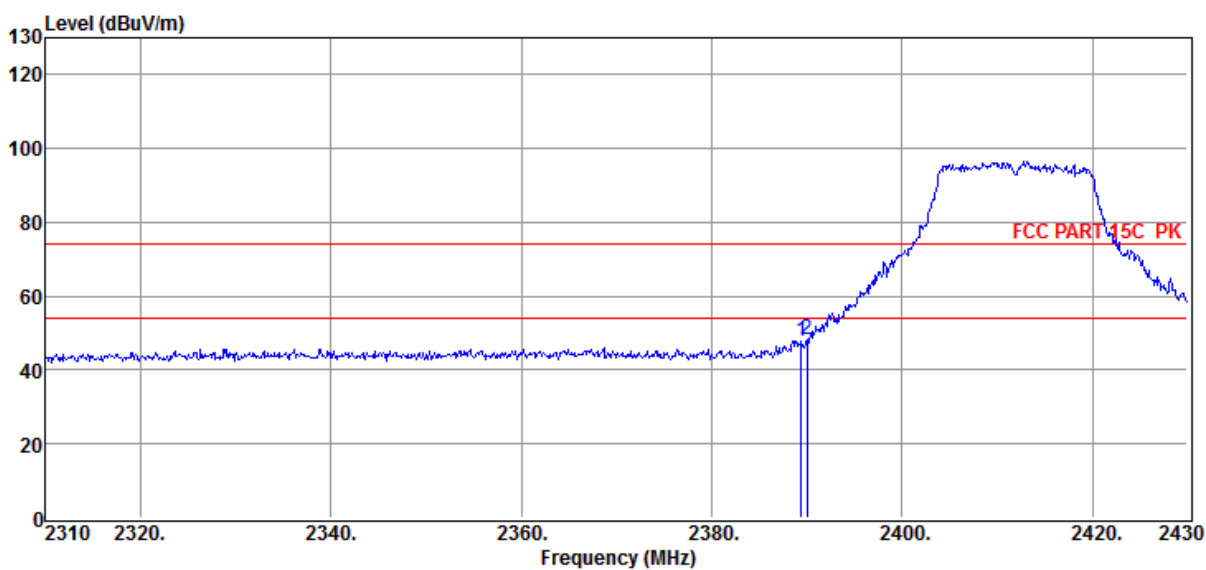
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2412 MHz

Data: 29



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2389.44	3.30	47.94	74.00	-26.06	178	108	Peak	VERTICAL
2	2390.00	3.30	48.29	74.00	-25.71	152	341	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

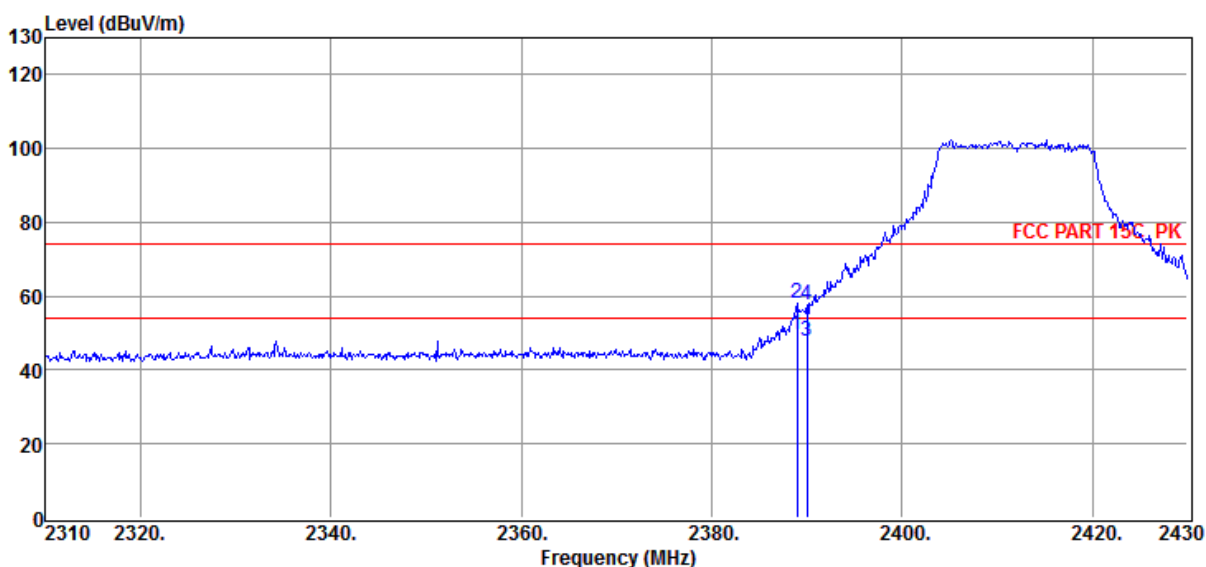
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2412 MHz

Data: 30



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2388.96	3.30	49.77	54.00	-4.23	165	56	Average	HORIZONTAL
2	2388.96	3.30	57.87	74.00	-16.13	172	321	Peak	HORIZONTAL
3	2390.00	3.30	47.67	54.00	-6.33	157	234	Average	HORIZONTAL
4	2390.00	3.30	57.44	74.00	-16.56	154	176	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

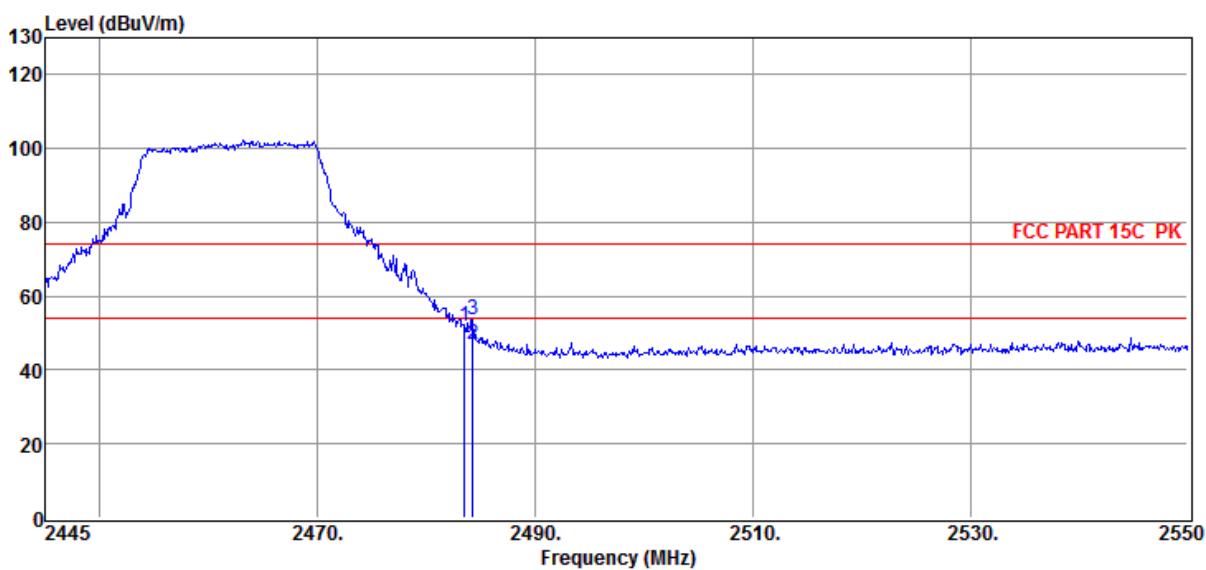
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2462 MHz

Data: 31



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	51.61	74.00	-22.39	175	254	Peak	HORIZONTAL
2	2484.27	3.53	46.70	54.00	-7.30	164	32	Average	HORIZONTAL
3	2484.27	3.53	53.55	74.00	-20.45	159	35	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

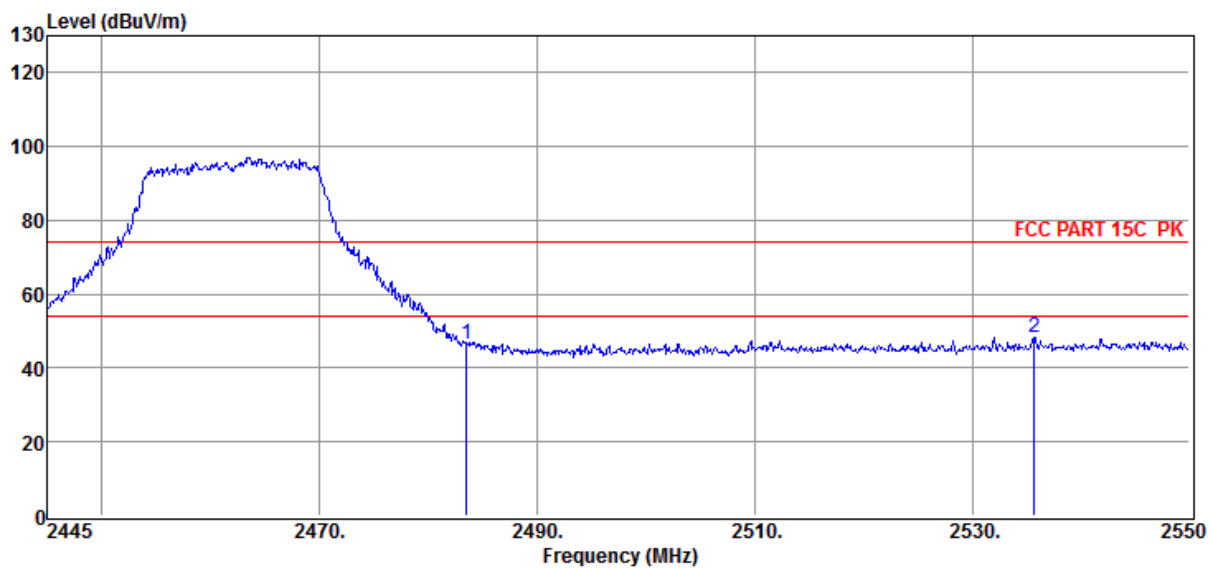
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11G 6M 2462 MHz

Data: 32



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	46.68	74.00	-27.32	162	90	Peak	VERTICAL
2	2535.72	4.46	48.11	74.00	-25.89	177	43	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

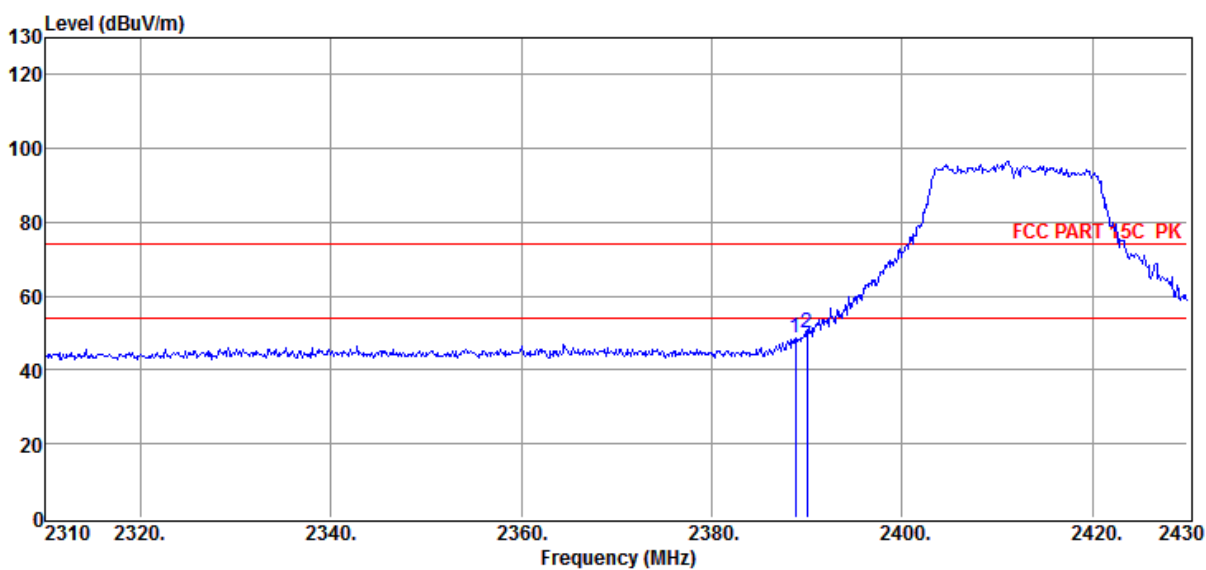
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2412 MHz

Data: 33



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2388.84	3.30	48.66	74.00	-25.34	153	204	Peak	VERTICAL
2	2390.00	3.30	49.97	74.00	-24.03	163	168	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

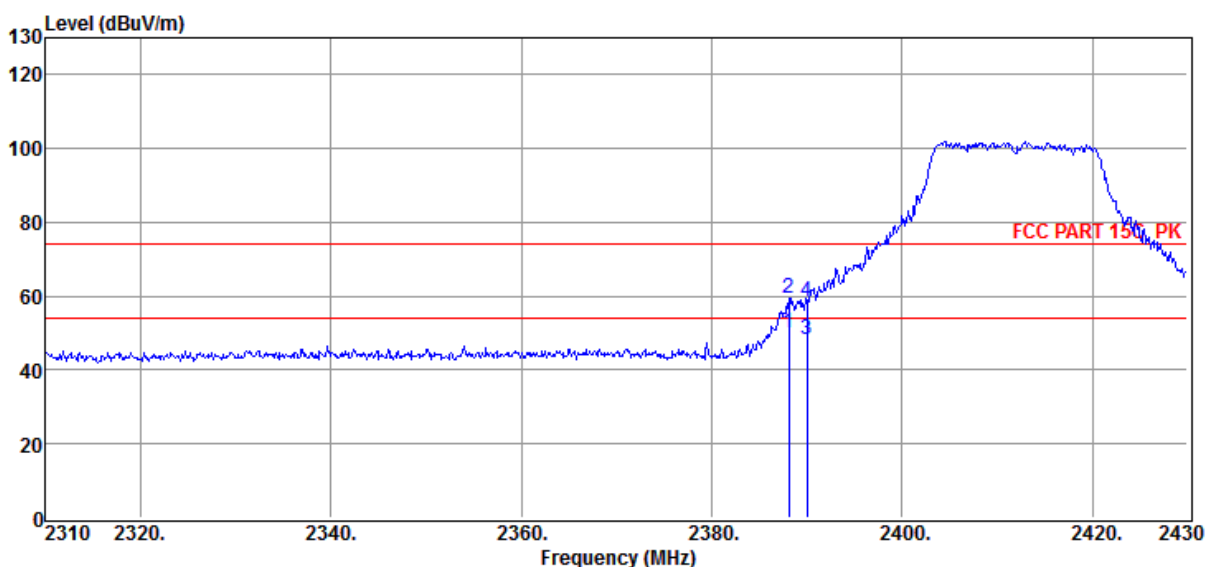
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2412 MHz

Data: 34



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2388.12	3.30	49.97	54.00	-4.03	153	76	Average	HORIZONTAL
2	2388.12	3.30	59.62	74.00	-14.38	164	114	Peak	HORIZONTAL
3	2390.00	3.30	48.27	54.00	-5.73	174	254	Average	HORIZONTAL
4	2390.00	3.30	58.47	74.00	-15.53	168	261	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

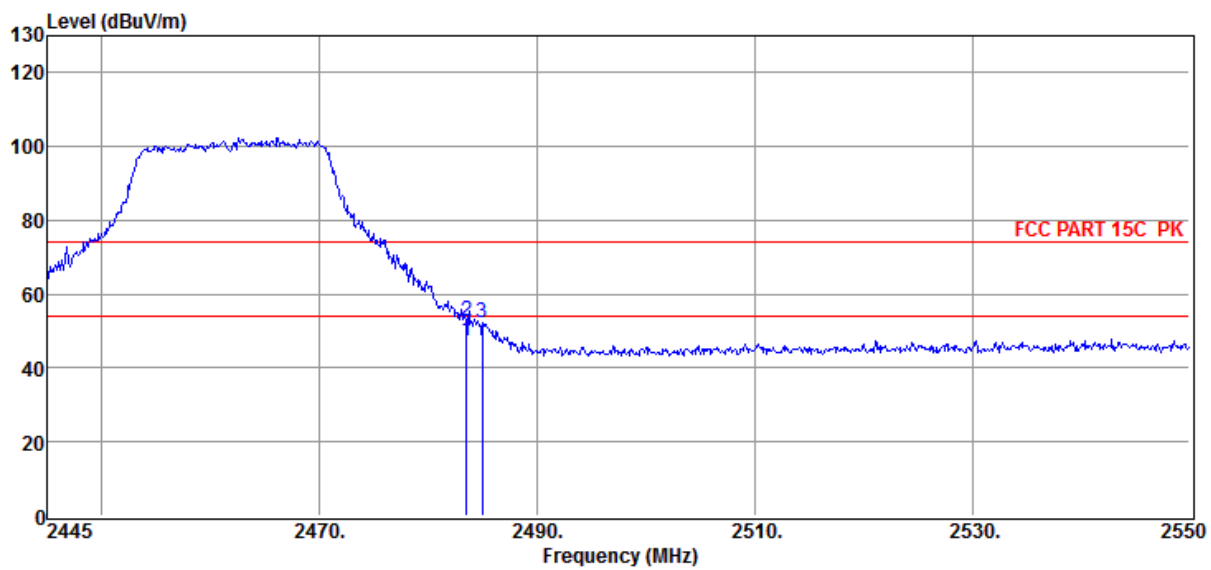
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2462 MHz

Data: 35



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	47.49	54.00	-6.51	168	33	Average	HORIZONTAL
2	2483.50	3.52	52.54	74.00	-21.46	159	89	Peak	HORIZONTAL
3	2485.01	3.54	52.16	74.00	-21.84	173	209	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

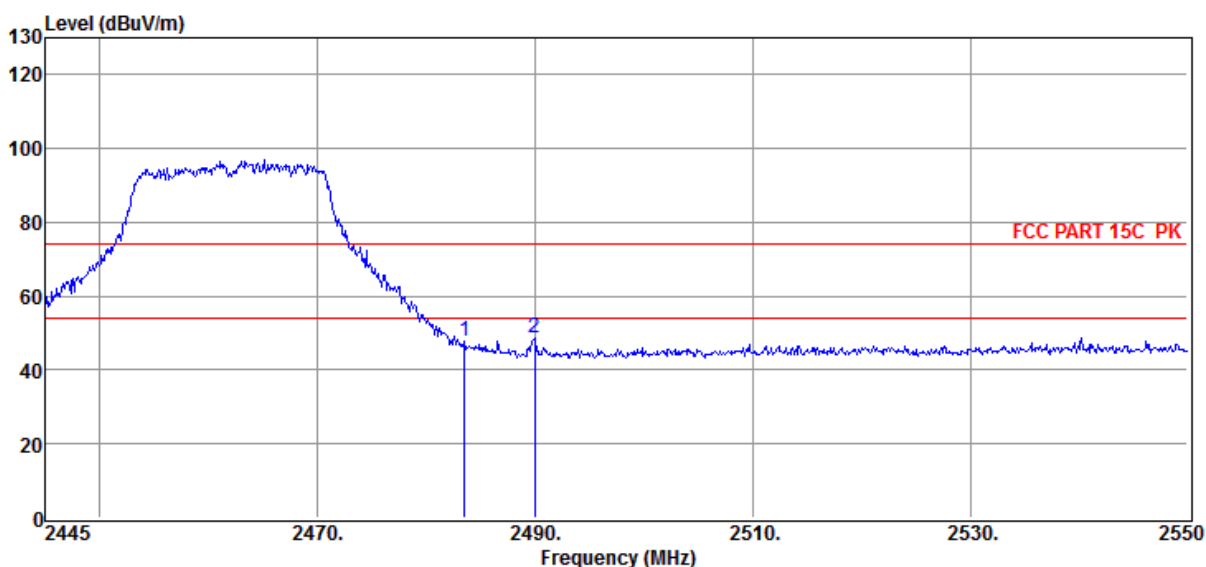
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N20 MCS0 2462 MHz

Data: 36



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	47.98	74.00	-26.02	167	315	Peak	VERTICAL
2	2489.94	3.57	48.76	74.00	-25.24	161	263	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

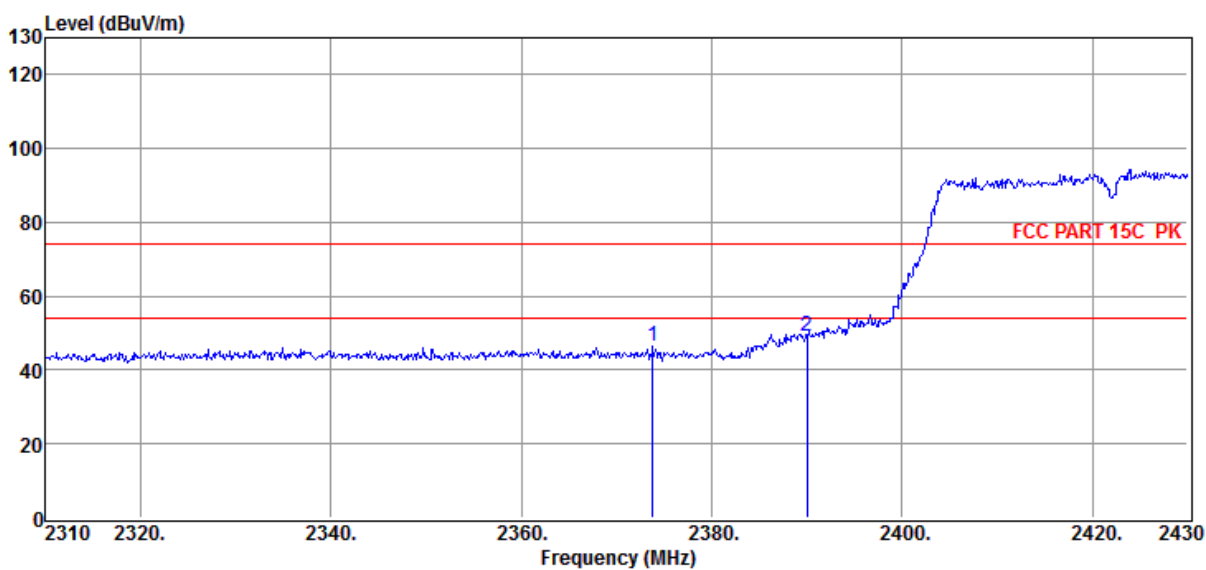
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2422 MHz

Data: 37



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2373.84	3.26	46.49	74.00	-27.51	155	27	Peak	VERTICAL
2	2390.00	3.30	49.32	74.00	-24.68	172	265	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

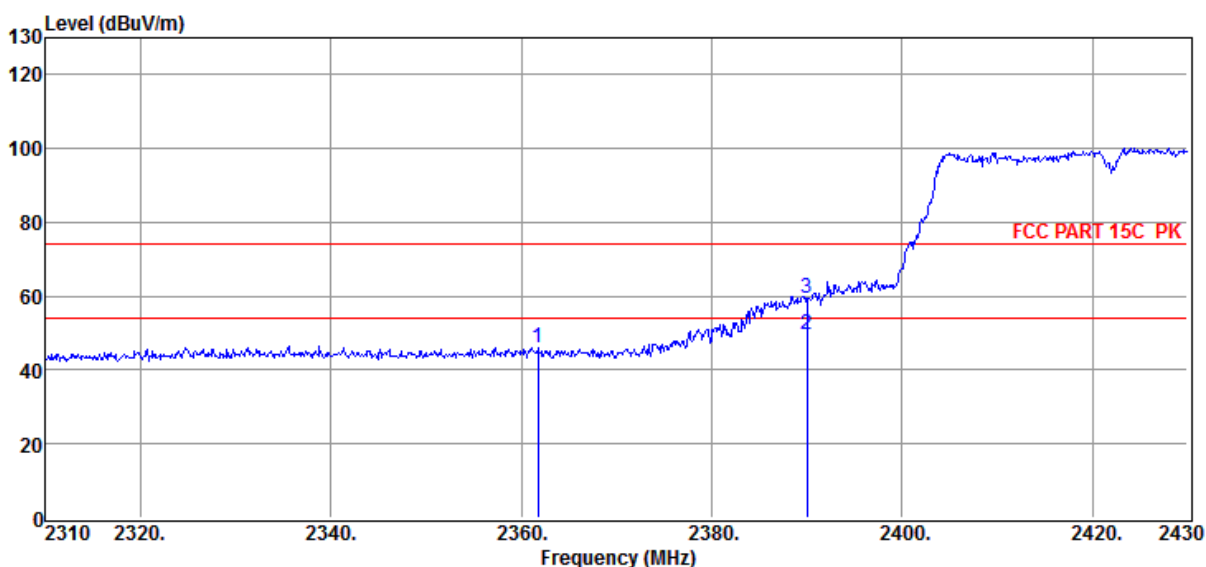
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2422 MHz

Data: 38



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2361.72	3.23	46.00	74.00	-28.00	165	56	Peak	HORIZONTAL
2	2390.00	3.30	49.37	54.00	-4.63	158	43	Average	HORIZONTAL
3	2390.00	3.30	59.35	74.00	-14.65	173	342	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

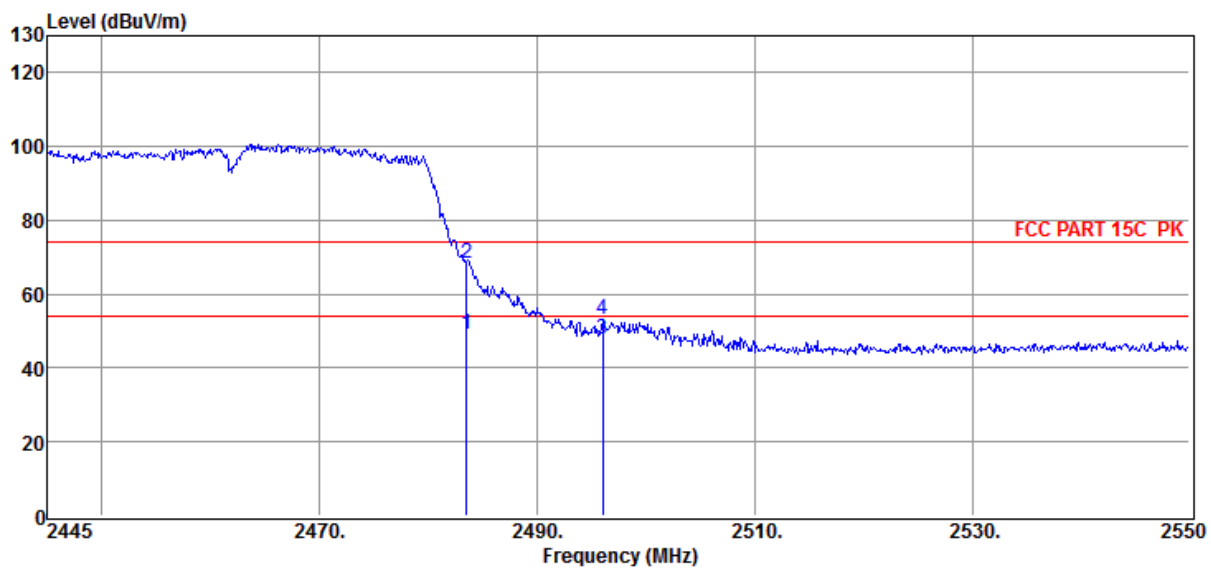
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2452 MHz

Data: 39



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	49.21	54.00	-4.79	156	76	Average	HORIZONTAL
2	2483.50	3.52	68.49	74.00	-5.51	160	8	Peak	HORIZONTAL
3	2496.03	3.62	47.88	54.00	-6.12	153	63	Average	HORIZONTAL
4	2496.03	3.62	53.10	74.00	-20.90	166	143	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 12-14-2021

Tested By : Sunny

EUT : In-vehicle Camera

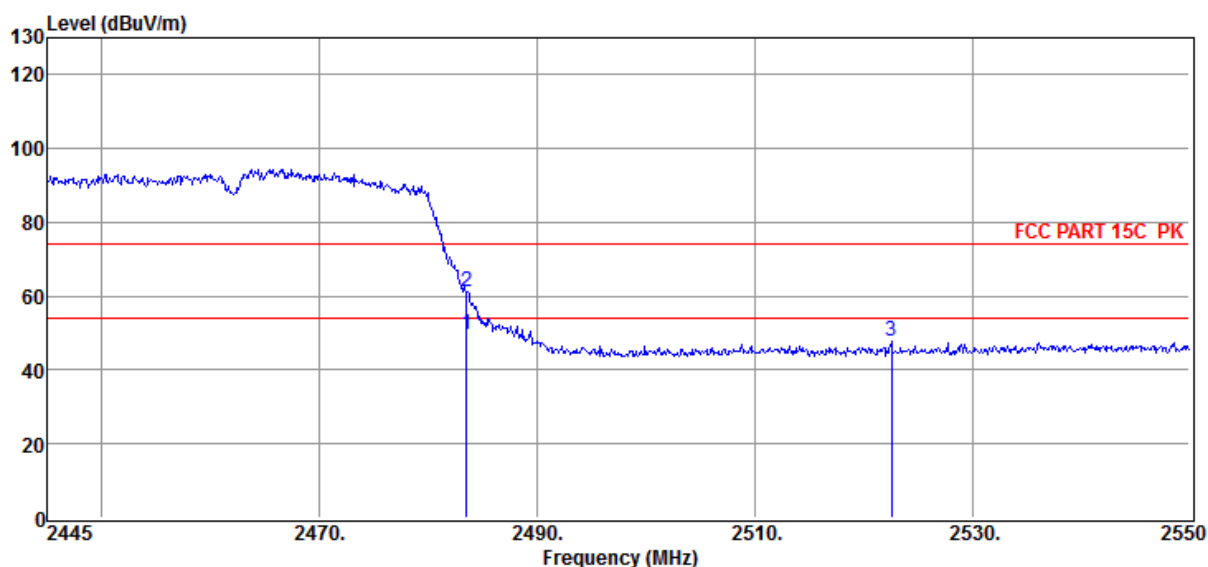
Model Number : Nauto 3

Power Supply : DC 12V

Test Mode : Tx mode

Memo : 11N40 MCS0 2452 MHz

Data: 40



Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	2483.50	3.52	49.49	54.00	-4.51	153	9	Average	VERTICAL
2	2483.50	3.52	61.36	74.00	-12.64	155	34	Peak	VERTICAL
3	2522.60	4.16	47.81	74.00	-26.19	167	231	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

7. APPENDIXES

The below appendix was detail result tested by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Date of Test: 2019/5/10 ~ 2019/6/2)

Appendix	Item
Appendix	2.4G WLAN