



849 NW State Road 45
Newberry, FL 32669 USA
Phone: 352.472.5500
Fax: 352.472.2030
Email: info@timcoengr.com
Email: info@timcoengr.com

FCC PART 15B / RSS-215
ANALOGUE SCANNING RECEIVER
COMBO TEST REPORT

Applicant	YAESU MUSEN CO., LTD.
Address	TENNOZU PARKSIDE BUILDING 2-5-8 HIGASHI-SHINAGAWA, SHINAGAWA-KU, TOKYO, 140-0002 JAPAN
FCC ID:	K6620755X40
IC	511B-20755X40
Model Number	FTM-7250DR
Product Description	VHF/UHF DIGITAL/ANALOG SCANNING RECEIVER
Date Sample Received	2/14/2018
Final Test Date	3/7/2018
Tested By	Tim Royer
Approved By	Franklin Rose
Test Results	☒ PASS ☐ FAIL

Report Number	Version Number	Description	Issue Date
256AUT18TestReport	Rev1	Initial Issue	03/09/2018
256AUT18TestReport	Rev2	Updated Equipment List	03/19/2018

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT
THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**

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GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

Summary

The device under test does:

- ☒ Fulfill the general approval requirements as identified in this test report and was selected by the customer.
- ☐ Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc.
849 NW State Road 45
Newberry, FL 32669



Sr. EMC Engineer
EMC-003838-NE



Tested by:

Name and Title: Tim Royer, Project Manager/Testing Engineer

Date: 03/08/2018



Reviewed and approved by:

Name and Title: Franklin Rose, Project Manager/EMC Technician

Date: 03/09/2018

Applicant: YAESU MUSEN CO., LTD.
FCC ID: K6620755X40
IC: 511B-20755X40
Report: 256AUT18TestReport_Rev1

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GENERAL INFORMATION

The test results relate only to the items tested.	
EUT Description	VHF/UHF DIGITAL/ANALOG SCANNING RECEIVER
FCC ID	K6620755X40
IC	511B-20755X40
Model Number	FTM-7250DR
Range	108 – 580 MHz
Receiver Circuit Type	Superheterodyne
Lowest Internal Frequency	16 MHz
2nd Harmonic of Highest Tuned Frequency	1160 MHz
Antenna Connector	UHF
EUT Power Source	☐ 110–120Vac/50– 60Hz
	☒ 13.8 VDC Nominal (Optional)
	☐ Battery Operated Exclusively
Test Item	☐ Prototype
	☒ Pre-Production
	☐ Production
Modifications required for Testing	None
Test Site	Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #: US1070

REPORT SUMMARY

Regulatory Standard	CFR Title 47 FCC Rule part 15B § 15.109, 15.111, & 15.121
Test Procedures	FCC Part 15.31, 15.33, 15.35 ANSI C63.4 – 2014
Operational Modes	Stopped at the Lowest, middle, and highest frequency of each frequency range. In addition, scanning all frequencies of tuning range.
Test Frequencies	Low: 108 MHz
	Middle: 344 MHz
	High: 580 MHz
	Scan: 108 kHz to 580 MHz
Environmental Condition in the laboratory	Temperature: 24-26°C Relative humidity: 50-65% Barometric Pressure: 1021 mb
Deviation from the standard / procedure	No deviation

RESULTS SUMMARY

Test Item	FCC Rule Part	RSS Specification	Result
Radiated Spurious Emissions	15.109	215 sec 5.1, GEN sec 7.1	Pass
15.111 Receiver Conducted Power	15.111(a)	n/a	NA ⁽¹⁾
15.121 38 dB Rejection	15.121	n/a	NA ⁽²⁾
Powerline Conducted Emissions	15.107	215, sec 5.1, GEN sec 8.8	NA ⁽¹⁾

Notes:

- 1) EUT is not intended for connection with AC Mains.
- 2) Manufacturer provided attestation letter, no test required.

RADIATED SPURIOUS EMISSIONS

Rule Part No.: FCC Part 15 Subpart B, RSS-215 sec 5.1

Requirements: FCC Part 15.109(a), RSS GEN 7.1.2 Radiated Emission Limit

Class B Field Strength Limits @ 3 Meters	
Frequency (MHz)	Level (dBuV / m)
30 – 88	40.0
80 – 216	43.5
216 – 960	46.0
Above 960	54.0

FCC Part 15.109(f) Radiated Emission Limit

For a receiver which employs terminals for the connection of an external receiving antenna, the receiver shall be tested to demonstrate compliance with the provisions of this section with an antenna connected to the antenna terminals unless the antenna conducted power is measured as specified in §15.111(a).

Procedure: FCC Part 15.33(b)(3) Frequency range of radiated measurements

FCC Part 15.35(a) Measurement detector functions and bandwidths

ANSI C63.4 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment 9 kHz to 40 GHz

§ 6.2 Operating conditions

§ 6.3 Arrangement of EUT

§ 8.3.1 Exploratory radiated emissions measurements

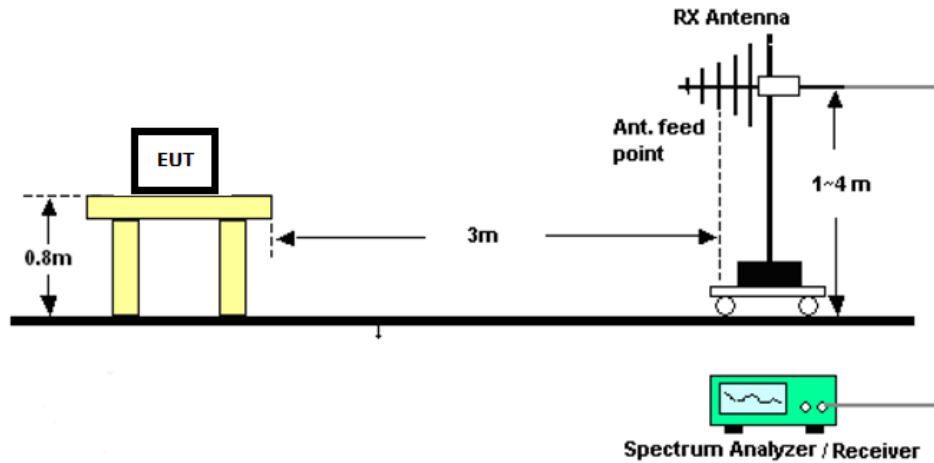
§ 8.3.2 Final radiated emission measurements

Configuration: The scanner receiver spurious emissions are to be measured when the receiver is in the scanning mode and repeated when the scanning is stopped, all while the antenna terminals are terminated into a non-radiating 50 Ω load.

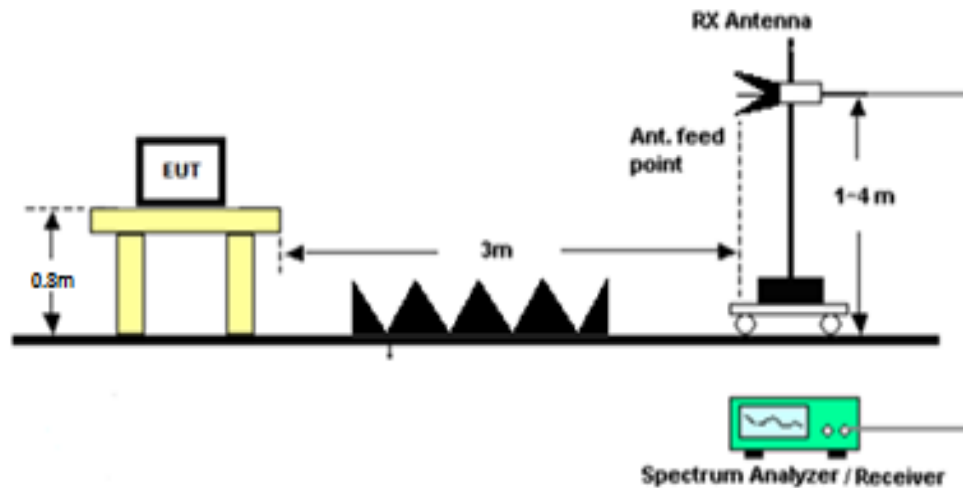
RADIATED SPURIOUS EMISSIONS

Setup:

Emissions 30 – 1000 MHz



Emissions above 1 GHz



RADIATED SPURIOUS EMISSIONS

108 MHz to 580 MHz Receiver Band, Scanned 30 MHz to 200 MHz

Test Data: Low End of Band 108 MHz Field Strength Plot, Horiz. Polarity



08.Mar.18 08:35

Test Spec CISPR 22 Radiated Disturbances

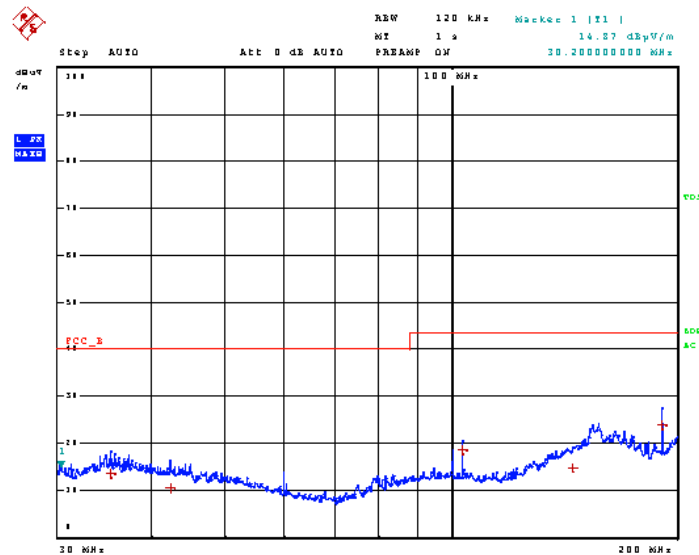
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 108 MHz Field Strength Table, Horiz. Polarity

08.Mar 18 08:35

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 5

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	35.16000000 MHz	13.45	Quasi Peak	-26.55
1	42.28000000 MHz	10.42	Quasi Peak	-29.58
1	103.72000000 MHz	18.50	Quasi Peak	-25.00
1	145.16000000 MHz	14.75	Quasi Peak	-28.75
1	191.24000000 MHz	23.93	Quasi Peak	-19.57

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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 108 MHz Field Strength Plot, Vert. Polarity



08.Mar.18 08:29

Test Spec CISPR 22 Radiated Disturbances

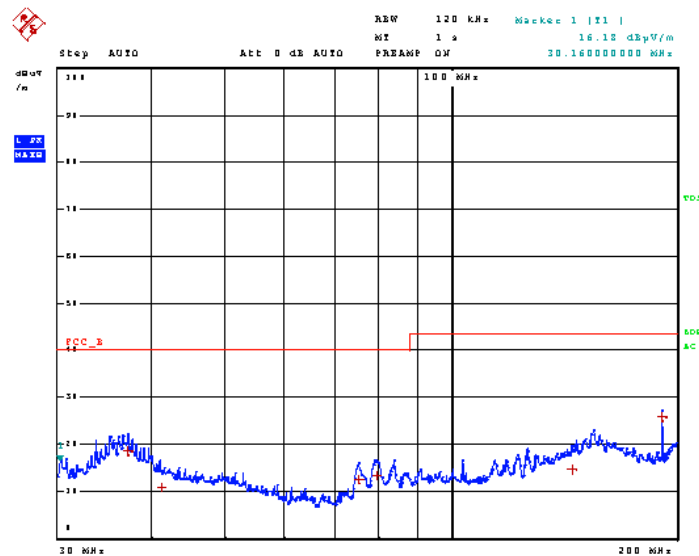
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 108 MHz Field Strength Table, Vert. Polarity

08.Mar 18 08:29

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	37.12000000 MHz	18.55	Quasi Peak	-21.45
1	41.16000000 MHz	10.80	Quasi Peak	-29.20
1	75.32000000 MHz	12.43	Quasi Peak	-27.57
1	79.48000000 MHz	13.36	Quasi Peak	-26.64
1	144.96000000 MHz	14.60	Quasi Peak	-28.90
1	191.24000000 MHz	25.79	Quasi Peak	-17.71

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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 344 MHz Field Strength Plot, Horiz. Polarity



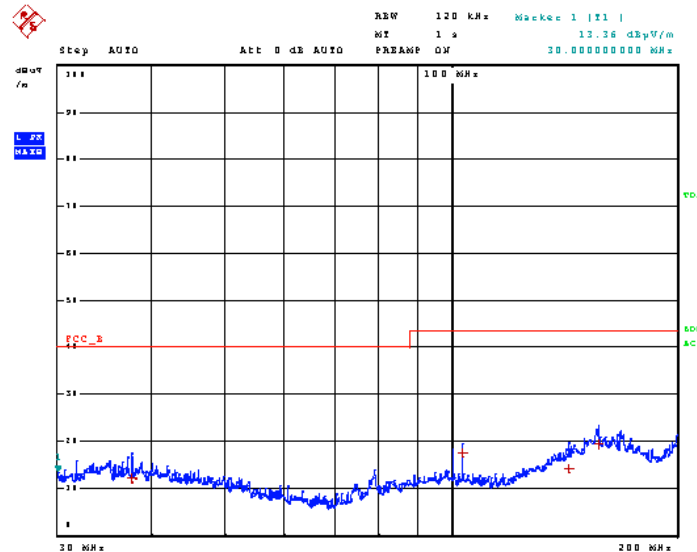
08.Mar.18 08:56

Test Spec CISPR 22 Radiated Disturbances
Polarity Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 344 MHz Field Strength Table, Horiz. Polarity

08.Mar 18 08:56

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	37.560000000 MHz	12.17	Quasi Peak	-27.83
1	103.640000000 MHz	17.58	Quasi Peak	-25.92
1	143.400000000 MHz	14.11	Quasi Peak	-29.39
1	157.240000000 MHz	19.49	Quasi Peak	-24.01

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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 344 MHz Field Strength Plot, Vert. Polarity



08.Mar.18 09:04

Test Spec CISPR 22 Radiated Disturbances

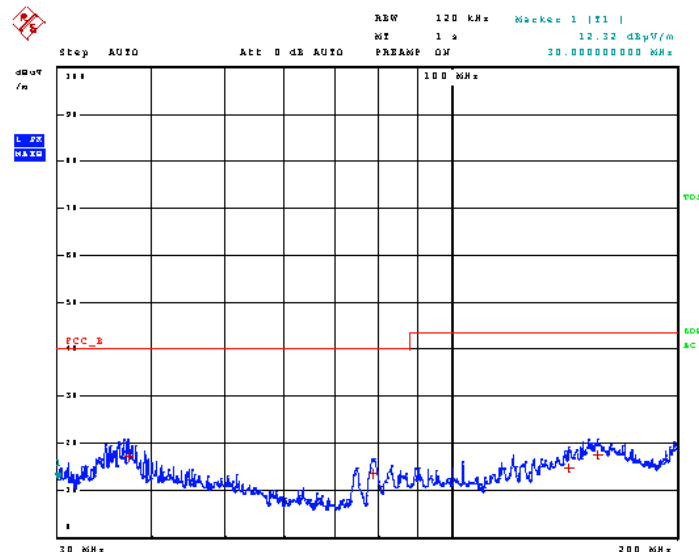
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Test Data: Low End of Band 344 MHz Field Strength Table, Vert. Polarity

08.Mar 18 09:04

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 4

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	37.20000000 MHz	17.08	Quasi Peak	-22.92
1	78.56000000 MHz	13.56	Quasi Peak	-26.44
1	143.68000000 MHz	14.76	Quasi Peak	-28.74
1	156.72000000 MHz	17.64	Quasi Peak	-25.86

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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Plot, Horiz. Polarity



08.Mar.18 09:32

Test Spec: CISPR 22 Radiated Disturbances

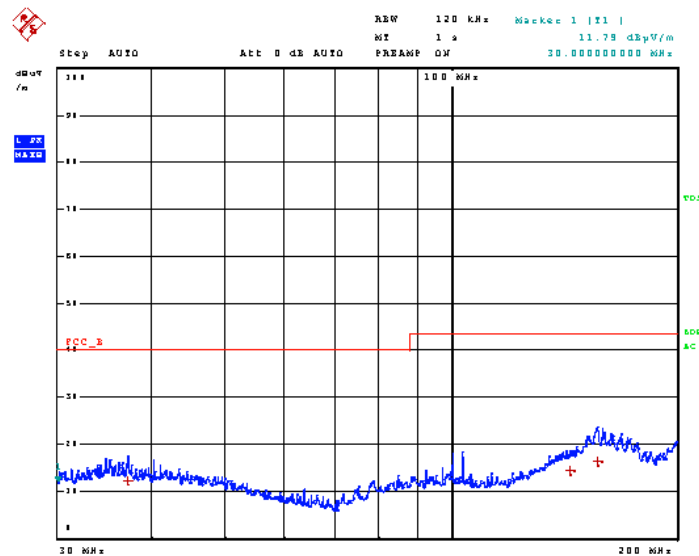
Polarity:

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Table, Horiz. Polarity

08.Mar 18 09:32

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	37.040000000 MHz	12.32	Quasi Peak	-27.68
1	144.000000000 MHz	14.35	Quasi Peak	-29.15
1	156.680000000 MHz	16.38	Quasi Peak	-27.12

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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Plot, Vert. Polarity



08.Mar.18 09:34

Test Spec: CISPR 22 Radiated Disturbances

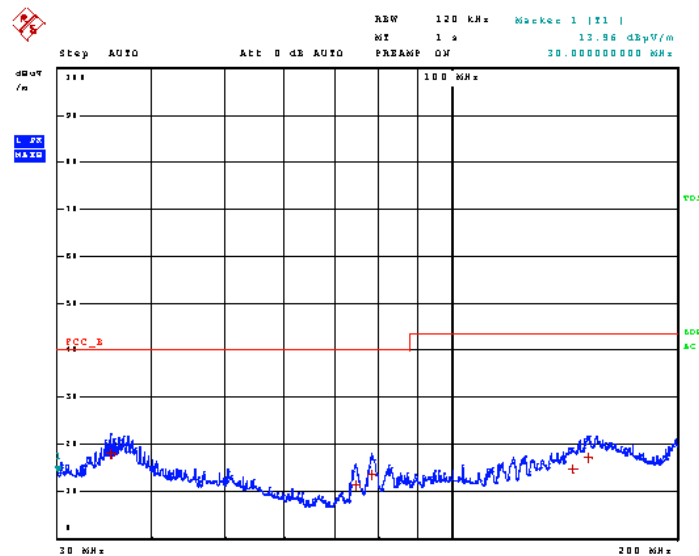
Polarity:

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Table, Vert. Polarity

08.Mar 18 09:34

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 5

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	35.16000000 MHz	17.93	Quasi Peak	-22.07
1	74.56000000 MHz	11.28	Quasi Peak	-28.72
1	78.40000000 MHz	13.55	Quasi Peak	-26.45
1	145.32000000 MHz	14.04	Quasi Peak	-28.66
1	152.04000000 MHz	17.22	Quasi Peak	-26.28

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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 108 MHz Field Strength Table, Horiz. Polarity

07.Mar 18 16:15

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	573.770000000 MHz	26.02	Quasi Peak	-19.98
1	756.350000000 MHz	24.11	Quasi Peak	-21.89
1	959.540000000 MHz	27.36	Quasi Peak	-18.64

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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 108 MHz Field Strength Plot, Vert. Polarity



07.Mar.18 16:14

Test Spec: CISPR 22 Radiated Disturbances

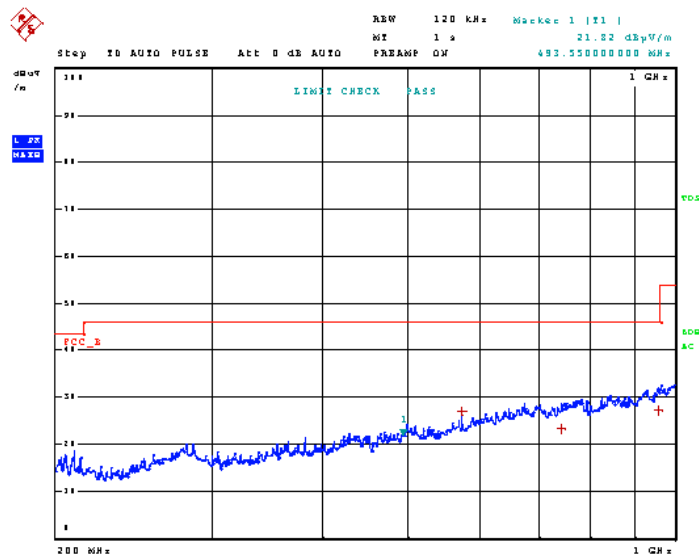
Polarity:

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Test Data: Low End of Band 108 MHz Field Strength Table, Vert. Polarity

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Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	573.740000000 MHz	27.00	Quasi Peak	-19.00
1	743.900000000 MHz	23.31	Quasi Peak	-22.69
1	957.500000000 MHz	27.15	Quasi Peak	-18.85

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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 344 MHz Field Strength Plot, Horiz. Polarity



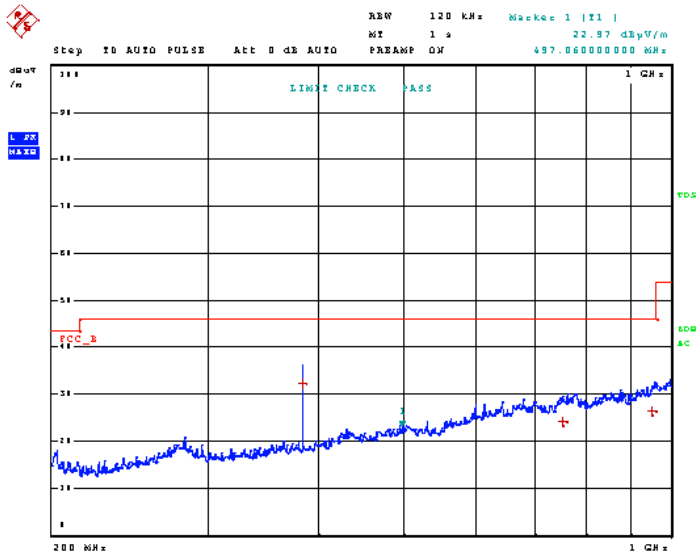
07.Mar.18 16:00

Test Spec: CISPR 22 Radiated Disturbances
Polarity: Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 344 MHz Field Strength Table, Horiz. Polarity

07.Mar 18 16:00

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	382.76000000 MHz	32.33	Quasi Peak	-13.67
1	755.12000000 MHz	24.13	Quasi Peak	-21.87
1	951.20000000 MHz	26.31	Quasi Peak	-19.69

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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 344 MHz Field Strength Plot, Vert. Polarity



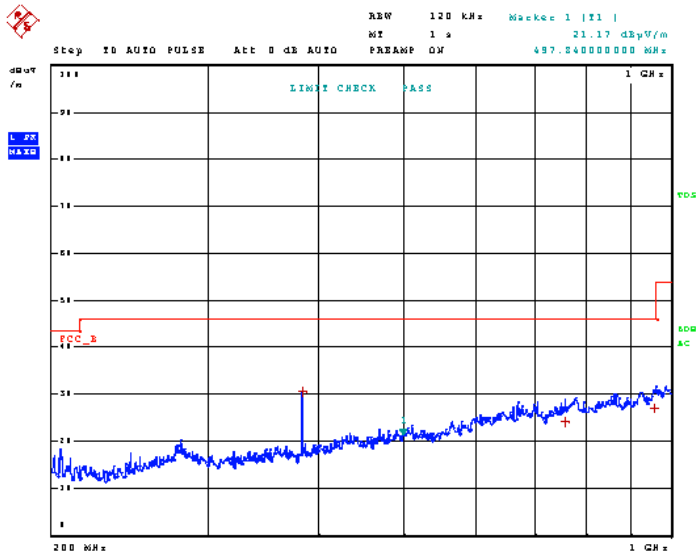
07.Mar.18 15:59

Test Spec: CISPR 22 Radiated Disturbances
Polarity: Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 344 MHz Field Strength Table, Vert. Polarity

07.Mar 18 15:59

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	382.76000000 MHz	30.67	Quasi Peak	-15.33
1	758.33000000 MHz	24.12	Quasi Peak	-21.88
1	957.17000000 MHz	27.06	Quasi Peak	-18.94

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Applicant: YAESU MUSEN CO., LTD.
FCC ID: K6620755X40
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Plot, Horiz. Polarity



07.Mar 18 15:20

Test Spec CISPR 22 Radiated Disturbances

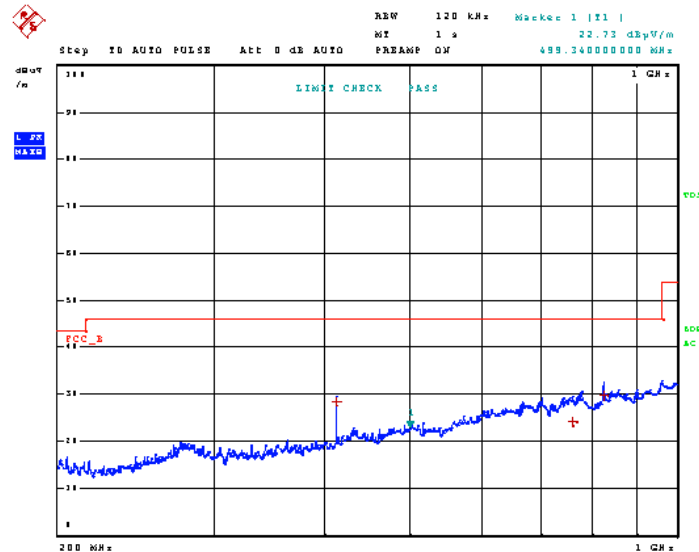
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: YAESU MUSEN CO., LTD.
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Table, Horiz. Polarity

07.Mar 18 15:20

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	412.760000000 MHz	28.43	Quasi Peak	-17.57
1	761.960000000 MHz	24.09	Quasi Peak	-21.91
1	825.530000000 MHz	29.63	Quasi Peak	-16.37

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Applicant: YAESU MUSEN CO., LTD.
FCC ID: K6620755X40
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Plot, Vert. Polarity



07.Mar.18 15:18

Test Spec CISPR 22 Radiated Disturbances

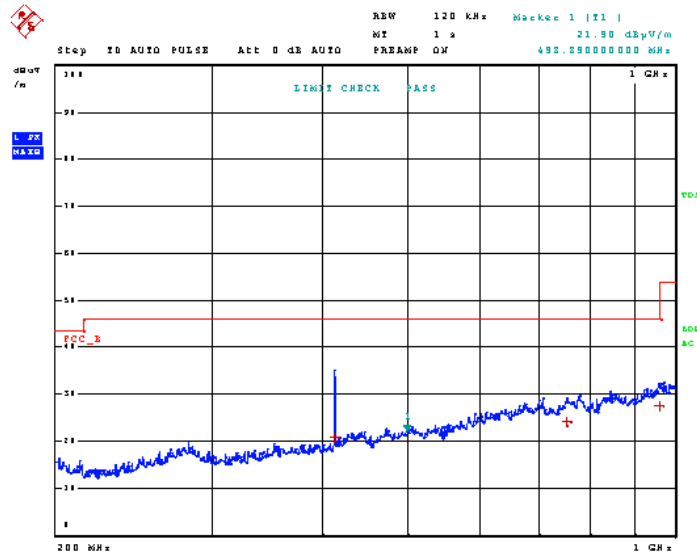
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Table, Vert. Polarity

07.Mar 18 15:18

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	412.760000000 MHz	20.71	Quasi Peak	-25.29
1	755.180000000 MHz	24.11	Quasi Peak	-21.89
1	959.930000000 MHz	27.35	Quasi Peak	-18.65

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RADIATED SPURIOUS EMISSIONS

108 MHz to 580 MHz Receiver Band, Scanned 1 GHz to 5 GHz

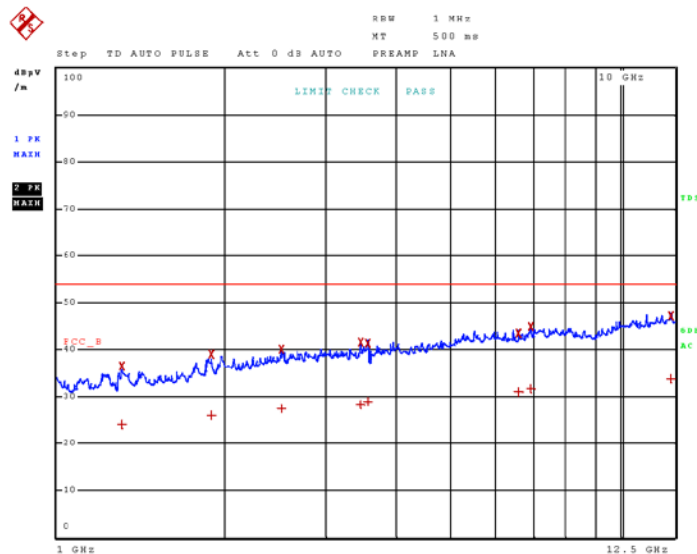
Test Data: Low End of Band 108 MHz Field Strength Plot, Horiz. Polarity

07.Mar 18 14:41

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 108 MHz Field Strength Table, Horiz. Polarity

07.Mar 18 14:41

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.308250000 GHz	24.06	CISPR Averag	-29.94
2	1.308250000 GHz	36.52	Max Peak	
1	1.880000000 GHz	25.92	CISPR Averag	-28.08
2	1.880000000 GHz	38.89	Max Peak	
1	2.510500000 GHz	27.37	CISPR Averag	-26.63
2	2.510500000 GHz	39.95	Max Peak	
1	3.471000000 GHz	28.32	CISPR Averag	-25.68
2	3.471000000 GHz	41.41	Max Peak	
1	3.570250000 GHz	28.93	CISPR Averag	-25.07
2	3.570250000 GHz	41.26	Max Peak	
1	6.598250000 GHz	30.92	CISPR Averag	-23.08
2	6.598250000 GHz	43.38	Max Peak	
1	6.940750000 GHz	31.53	CISPR Averag	-22.47
2	6.940750000 GHz	44.83	Max Peak	
1	12.295500000 GHz	33.67	CISPR Averag	-20.33
2	12.295500000 GHz	47.08	Max Peak	

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RADIATED SPURIOUS EMISSIONS

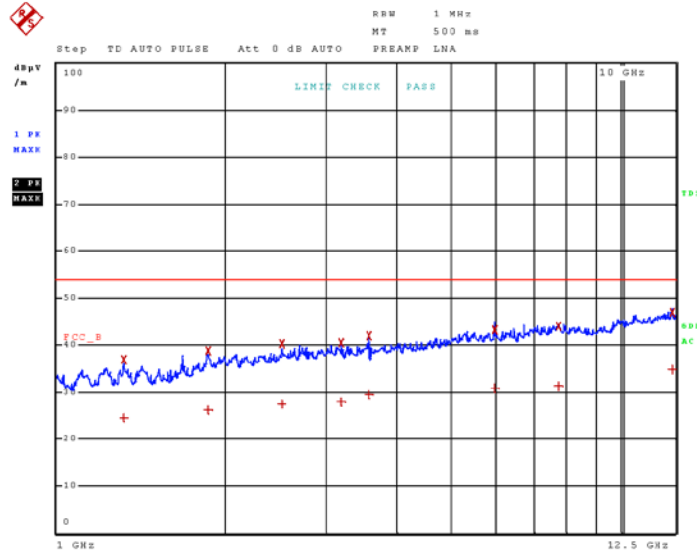
Test Data: Low End of Band 108 MHz Field Strength Plot, Vert. Polarity

07.Mar 18 14:37

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 108 MHz Field Strength Table, Vert. Polarity

07.Mar 18 14:37

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.317000000 GHz	24.42	CISPR Averag	-29.58
2	1.317000000 GHz	36.95	Max Peak	
1	1.860750000 GHz	26.17	CISPR Averag	-27.83
2	1.860750000 GHz	38.79	Max Peak	
1	2.507000000 GHz	27.35	CISPR Averag	-26.65
2	2.507000000 GHz	40.20	Max Peak	
1	3.189250000 GHz	27.77	CISPR Averag	-26.23
2	3.189250000 GHz	40.35	Max Peak	
1	3.599750000 GHz	29.47	CISPR Averag	-24.53
2	3.599750000 GHz	41.87	Max Peak	
1	5.987750000 GHz	30.84	CISPR Averag	-23.16
2	5.987750000 GHz	43.17	Max Peak	
1	7.739000000 GHz	31.28	CISPR Averag	-22.72
2	7.739000000 GHz	44.09	Max Peak	
1	12.366000000 GHz	34.79	CISPR Averag	-19.21
2	12.366000000 GHz	46.91	Max Peak	

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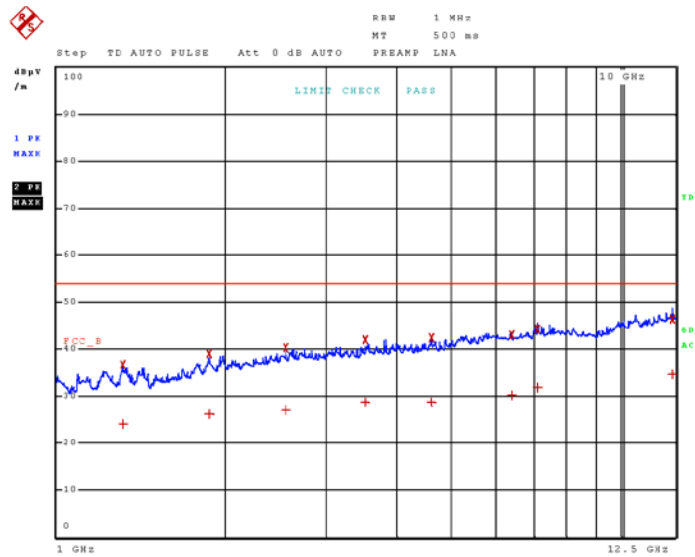
Test Data: Low End of Band 344 MHz Field Strength Plot, Horiz. Polarity

07.Mar 18 14:48

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 344 MHz Field Strength Table, Horiz. Polarity

07.Mar 18 14:48

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.310750000 GHz	24.07	CISPR Averag	-29.93
2	1.310750000 GHz	36.67	Max Peak	
1	1.867000000 GHz	26.18	CISPR Averag	-27.82
2	1.867000000 GHz	38.94	Max Peak	
1	2.543000000 GHz	26.94	CISPR Averag	-27.06
2	2.543000000 GHz	40.20	Max Peak	
1	3.515750000 GHz	28.74	CISPR Averag	-25.26
2	3.515750000 GHz	41.81	Max Peak	
1	4.622750000 GHz	28.75	CISPR Averag	-25.25
2	4.622750000 GHz	42.43	Max Peak	
1	6.412500000 GHz	30.22	CISPR Averag	-23.78
2	6.412500000 GHz	42.94	Max Peak	
1	7.132000000 GHz	31.87	CISPR Averag	-22.13
2	7.132000000 GHz	44.31	Max Peak	
1	12.371750000 GHz	34.48	CISPR Averag	-19.52
2	12.371750000 GHz	46.42	Max Peak	

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RADIATED SPURIOUS EMISSIONS

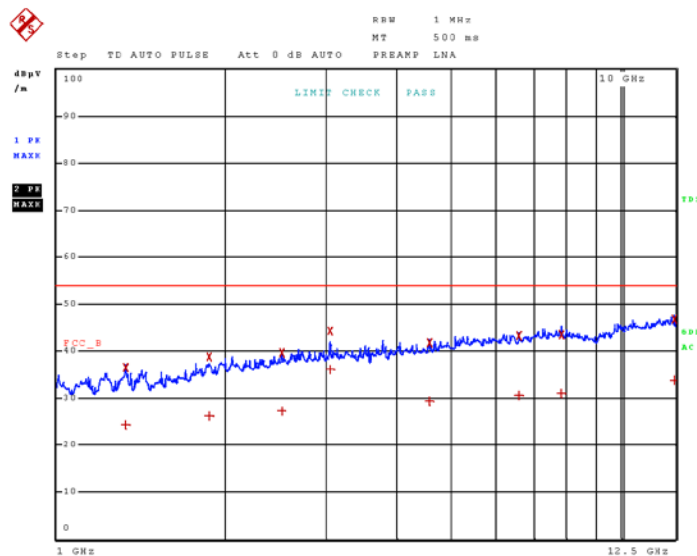
Test Data: Low End of Band 344 MHz Field Strength Plot, Vert. Polarity

07.Mar 18 14:46

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 344 MHz Field Strength Table, Vert. Polarity

07.Mar 18 14:46

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.327000000 GHz	24.21	CISPR Averag	-29.79
2	1.327000000 GHz	36.40	Max Peak	
1	1.868500000 GHz	26.14	CISPR Averag	-27.86
2	1.868500000 GHz	38.71	Max Peak	
1	2.503000000 GHz	27.23	CISPR Averag	-26.77
2	2.503000000 GHz	39.68	Max Peak	
1	3.062000000 GHz	36.12	CISPR Averag	-17.88
2	3.062000000 GHz	44.22	Max Peak	
1	4.583500000 GHz	29.21	CISPR Averag	-24.79
2	4.583500000 GHz	41.64	Max Peak	
1	6.581000000 GHz	30.49	CISPR Averag	-23.51
2	6.581000000 GHz	43.13	Max Peak	
1	7.840750000 GHz	31.08	CISPR Averag	-22.92
2	7.840750000 GHz	43.44	Max Peak	
1	12.441000000 GHz	33.77	CISPR Averag	-20.23
2	12.441000000 GHz	46.83	Max Peak	

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RADIATED SPURIOUS EMISSIONS

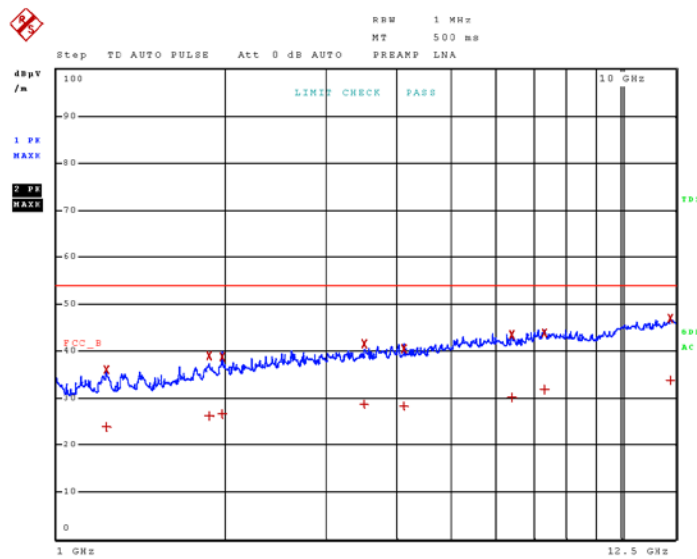
Test Data: High End of Band 580 MHz Field Strength Plot, Horiz. Polarity

07.Mar 18 14:53

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Table, Horiz. Polarity

07.Mar 18 14:53

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.224000000 GHz	23.80	CISPR Averag	-30.20
2	1.224000000 GHz	35.92	Max Peak	
1	1.863500000 GHz	26.12	CISPR Averag	-27.88
2	1.863500000 GHz	38.91	Max Peak	
1	1.963000000 GHz	26.47	CISPR Averag	-27.53
2	1.963000000 GHz	38.86	Max Peak	
1	3.513250000 GHz	28.60	CISPR Averag	-25.40
2	3.513250000 GHz	41.56	Max Peak	
1	4.117250000 GHz	28.21	CISPR Averag	-25.79
2	4.117250000 GHz	40.38	Max Peak	
1	6.411250000 GHz	30.19	CISPR Averag	-23.81
2	6.411250000 GHz	43.34	Max Peak	
1	7.339750000 GHz	31.79	CISPR Averag	-22.21
2	7.339750000 GHz	43.72	Max Peak	
1	12.269250000 GHz	33.70	CISPR Averag	-20.30
2	12.269250000 GHz	46.95	Max Peak	

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RADIATED SPURIOUS EMISSIONS

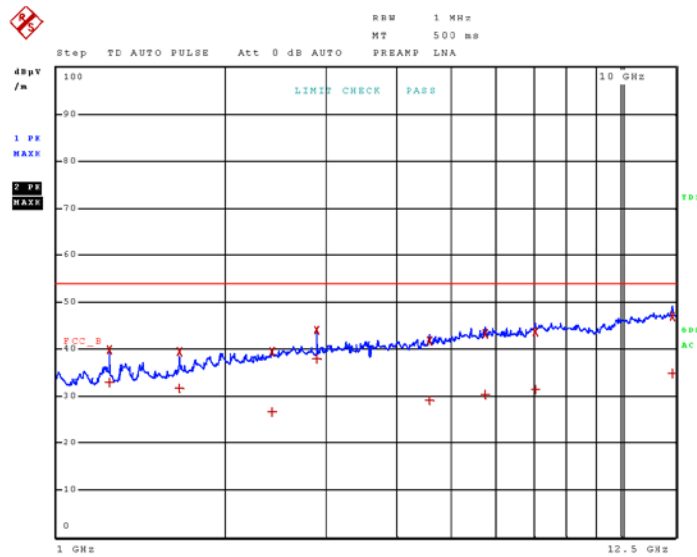
Test Data: High End of Band 580 MHz Field Strength Plot, Vert. Polarity

07.Mar 18 14:54

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 580 MHz Field Strength Table, Vert. Polarity

07.Mar 18 14:54

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.238250000 GHz	32.83	CISPR Averag	-21.17
2	1.238250000 GHz	39.77	Max Peak	
1	1.651000000 GHz	31.54	CISPR Averag	-22.46
2	1.651000000 GHz	39.31	Max Peak	
1	2.408750000 GHz	26.66	CISPR Averag	-27.34
2	2.408750000 GHz	39.47	Max Peak	
1	2.889250000 GHz	37.97	CISPR Averag	-16.03
2	2.889250000 GHz	44.10	Max Peak	
1	4.573250000 GHz	29.16	CISPR Averag	-24.84
2	4.573250000 GHz	41.73	Max Peak	
1	5.755250000 GHz	30.42	CISPR Averag	-23.58
2	5.755250000 GHz	43.19	Max Peak	
1	7.049500000 GHz	31.36	CISPR Averag	-22.64
2	7.049500000 GHz	43.69	Max Peak	
1	12.359000000 GHz	34.67	CISPR Averag	-19.33
2	12.359000000 GHz	47.04	Max Peak	

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Scanning Receiver Function, Scanned 30 MHz to 200 MHz

Test Data: Field Strength Plot, Horiz. Polarity



08.Mar.18 09:38

Test Spec CISPR 22 Radiated Disturbances

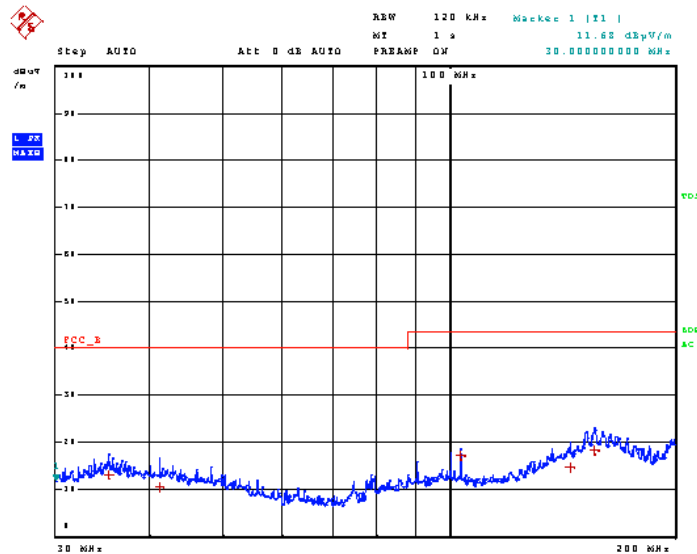
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: YAESU MUSEN CO., LTD.
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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

08.Mar 18 09:38

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 5

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	35.16000000 MHz	13.10	Quasi Peak	-26.90
1	41.16000000 MHz	10.37	Quasi Peak	-29.63
1	103.72000000 MHz	17.06	Quasi Peak	-26.44
1	144.92000000 MHz	14.69	Quasi Peak	-28.81
1	156.44000000 MHz	18.14	Quasi Peak	-25.36

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 FCC ID: K6620755X40
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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Plot, Vert. Polarity



08.Mar 18 09:36

Test Spec CISPR 22 Radiated Disturbances

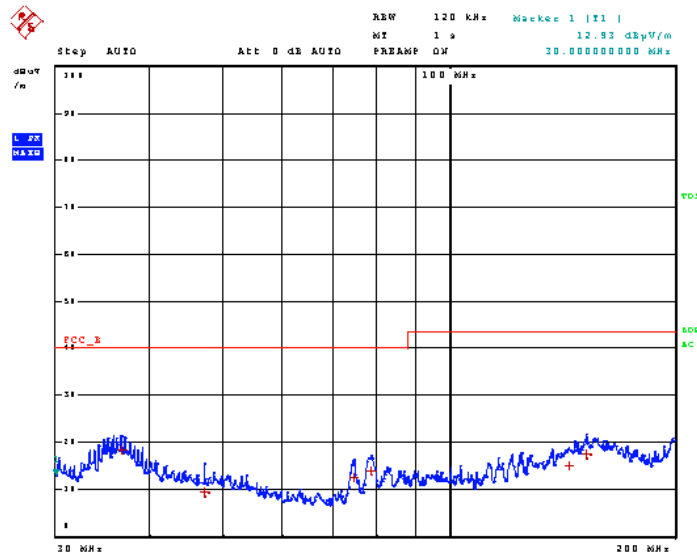
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

08.Mar 18 09:36

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 6

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	36.60000000 MHz	18.37	Quasi Peak	-21.63
1	47.28000000 MHz	9.27	Quasi Peak	-30.73
1	74.60000000 MHz	12.41	Quasi Peak	-27.59
1	78.76000000 MHz	14.07	Quasi Peak	-25.93
1	144.52000000 MHz	15.09	Quasi Peak	-28.41
1	152.64000000 MHz	17.29	Quasi Peak	-26.21

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Applicant: YAESU MUSEN CO., LTD.
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RADIATED SPURIOUS EMISSIONS

Scanning Receiver Function, Scanned 200 MHz to 1 GHz

Test Data: Field Strength Plot, Horiz. Polarity



07.Mar 18 16:22

Test Spec CISPR 22 Radiated Disturbances

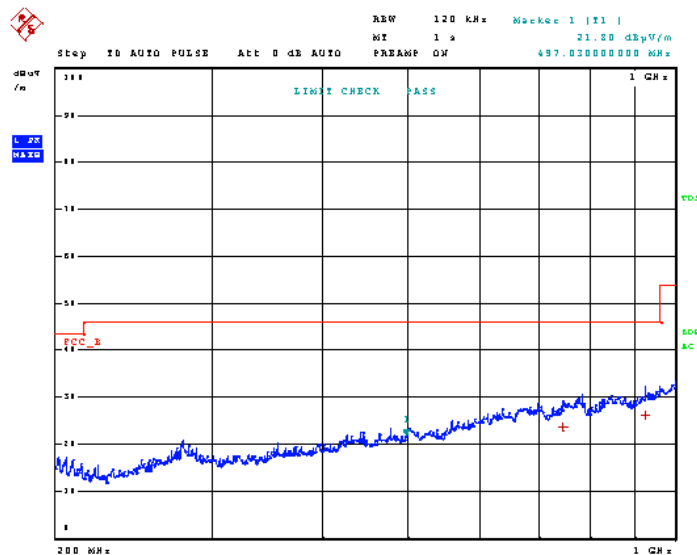
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: YAESU MUSEN CO., LTD.
FCC ID: K6620755X40
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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

07.Mar 18 16:22

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	748.100000000 MHz	23.59	Quasi Peak	-22.41
1	926.390000000 MHz	26.19	Quasi Peak	-19.81

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Applicant: YAESU MUSEN CO., LTD.
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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Plot, Vert. Polarity



07.Mar.18 16:21

Test Spec CISPR 22 Radiated Disturbances

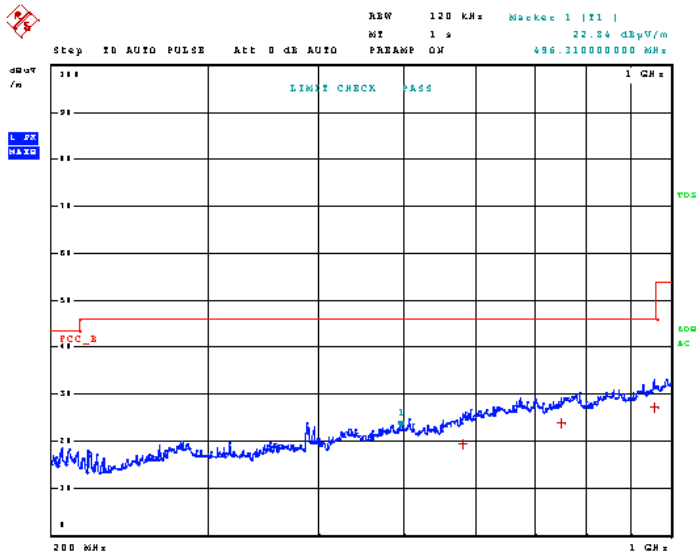
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

07.Mar 18 16:21

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	581.870000000 MHz	19.51	Quasi Peak	-26.49
1	751.340000000 MHz	23.87	Quasi Peak	-22.13
1	958.040000000 MHz	27.20	Quasi Peak	-18.80

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Scanning Receiver Function, Scanned 1 GHz to 5 GHz

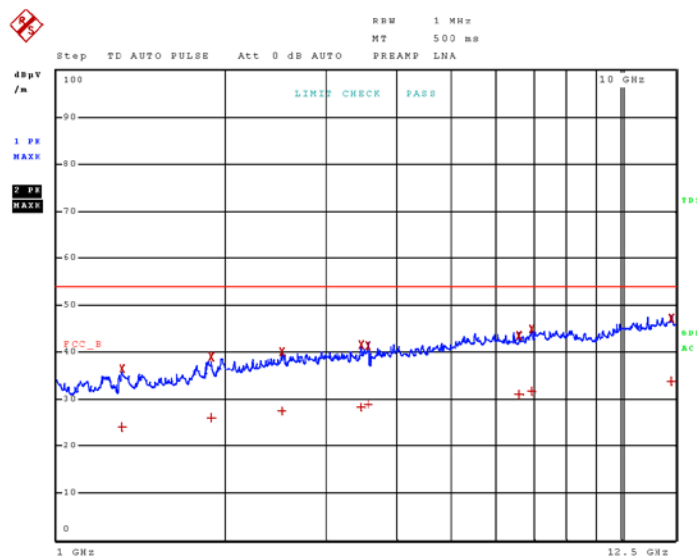
Test Data: Field Strength Plot, Horiz. Polarity

07.Mar 18 14:41

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

07.Mar 18 14:41

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.308250000 GHz	24.06	CISPR Averag	-29.94
2	1.308250000 GHz	36.52	Max Peak	
1	1.880000000 GHz	25.92	CISPR Averag	-28.08
2	1.880000000 GHz	38.89	Max Peak	
1	2.510500000 GHz	27.37	CISPR Averag	-26.63
2	2.510500000 GHz	39.95	Max Peak	
1	3.471000000 GHz	28.32	CISPR Averag	-25.68
2	3.471000000 GHz	41.41	Max Peak	
1	3.570250000 GHz	28.93	CISPR Averag	-25.07
2	3.570250000 GHz	41.26	Max Peak	
1	6.598250000 GHz	30.92	CISPR Averag	-23.08
2	6.598250000 GHz	43.38	Max Peak	
1	6.940750000 GHz	31.53	CISPR Averag	-22.47
2	6.940750000 GHz	44.83	Max Peak	
1	12.295500000 GHz	33.67	CISPR Averag	-20.33
2	12.295500000 GHz	47.08	Max Peak	

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RADIATED SPURIOUS EMISSIONS

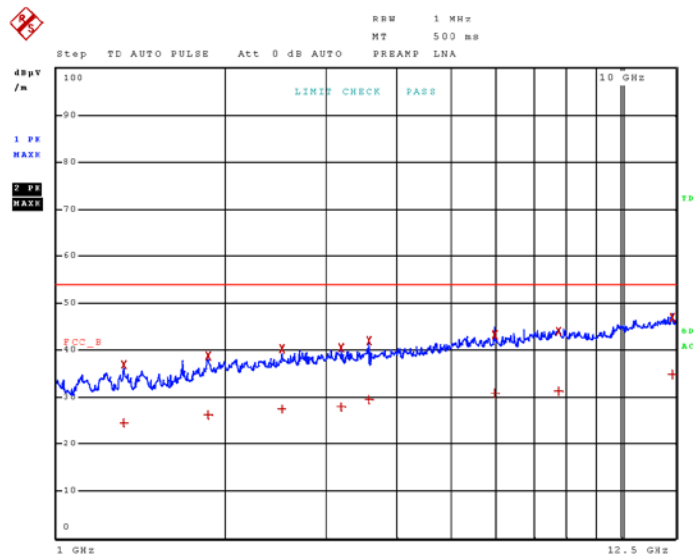
Test Data: Field Strength Plot, Vert. Polarity

07.Mar 18 14:37

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

07.Mar 18 14:37

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.317000000 GHz	24.42	CISPR Averag	-29.58
2	1.317000000 GHz	36.95	Max Peak	
1	1.860750000 GHz	26.17	CISPR Averag	-27.83
2	1.860750000 GHz	38.79	Max Peak	
1	2.507000000 GHz	27.35	CISPR Averag	-26.65
2	2.507000000 GHz	40.20	Max Peak	
1	3.189250000 GHz	27.77	CISPR Averag	-26.23
2	3.189250000 GHz	40.35	Max Peak	
1	3.599750000 GHz	29.47	CISPR Averag	-24.53
2	3.599750000 GHz	41.87	Max Peak	
1	5.987750000 GHz	30.84	CISPR Averag	-23.16
2	5.987750000 GHz	43.17	Max Peak	
1	7.739000000 GHz	31.28	CISPR Averag	-22.72
2	7.739000000 GHz	44.09	Max Peak	
1	12.366000000 GHz	34.79	CISPR Averag	-19.21
2	12.366000000 GHz	46.91	Max Peak	

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ANTENNA CONDUCTED POWER

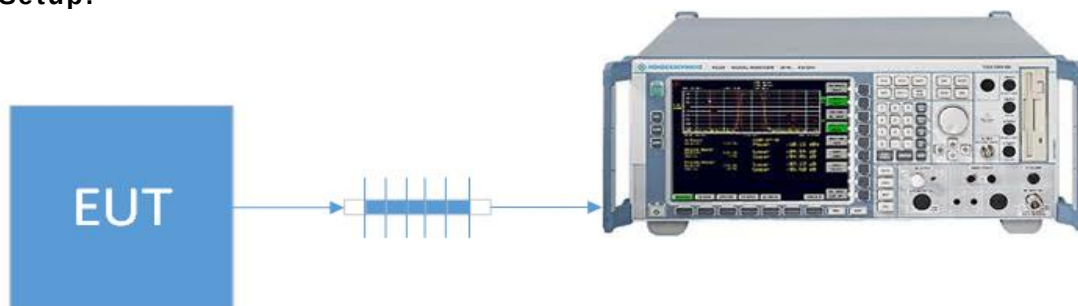
Rule Part No.: FCC Part 15 Subpart B

Requirements: FCC Part 15.111(a) Antenna power conduction limits for receivers
In addition to the radiated emission limits. Receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of §15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna. Provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in §15.33 shall not exceed 2.0 nanowatts.

Procedure: FCC Part 15.33(b)(3) Frequency range of radiated measurements
FCC Part 15.35(a) Measurement detector functions and bandwidths
ANSI C63.4 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment 9 kHz to 40 GHz
§ 12.2.2 Operating conditions
§ 12.2.6 Antenna-conducted power measurements

Configuration: The scanner receiver spurious emissions are to be measured when the receiver is in the scanning mode and repeated when the scanning is stopped, all while the antenna terminals are connected to a EMI receiver through a 50 Ω coaxial cable.

Setup:



Results: N/A. EUT is not intended for connection with AC Mains.

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TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconical 1096	Eaton	94455-1	1096	08/01/17	08/01/19
Antenna: Log-Periodic 1122	Electro-Metrics	LPA-25	1122	07/26/17	07/26/19
DC Power Supply	HP	6286A	2411A09414	N/A	N/A
CHAMBER	Panashield	3M	N/A	04/25/16	03/31/18
Antenna: Double-Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	00041534	03/01/17	03/01/19
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	04/01/16	04/01/18
Coaxial Cable - Chamber 3 cable set (Primary)	Micro-Coax	Chamber 3 cable set (Primary)	KMKM-0244-01; KMKM-0670-00; KFKF-0198-01	08/09/16	08/09/18
Bore-sight Antenna Positioning Tower	Sunol Sciences	TLT2	N/A	N/A	N/A
Pre-amp	RF-LAMBDA	RLNA00M45GA	N/A	01/04/16	01/04/19

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

END OF TEST REPORT

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