



Test Report – FCC 15B Unintentional Radiator

Prepared For: Uniden America Corporation

Approved for Release By:

Signature: Bruno Clavier

Name & Title: Bruno Clavier, General Manager

Date of Signature 3/2/2021

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Table of Contents

1.	CUSTOMER INFORMATION.....	5
1.1	TEST RESULT SUMMARY	5
2.	LOCATION OF TESTING	6
2.1	TEST LABORATORY	6
2.2	TESTING WAS PERFORMED, REVIEWED BY	7
3.	TEST SAMPLE(S) (EUT/DUT).....	8
3.1	DESCRIPTION OF THE EUT.....	8
3.2	CONFIGURATION OF EUT	9
3.3	TEST SETUP OF EUT	9
4.	TEST METHODS & APPLICABLE REGULATORY LIMITS.....	10
4.1	TEST METHODS/STANDARDS/GUIDANCE	10
5.	MEASUREMENT UNCERTAINTY.....	10
6.	ENVIRONMENTAL CONDITIONS	10
7.	LIST OF TEST EQUIPMENT AND TEST FACILITY.....	11
8.	TEST RESULTS	12
8.1	RADIATED EMISSIONS.....	13
8.1.1	Scanning Receiver Function, 30 MHz to 200 MHz, Horizontal Polarity Plot	14
8.1.2	Scanning Receiver Function, 30 MHz to 200 MHz, Horizontal Polarity Table	15
8.1.3	Scanning Receiver Function, 30 MHz to 200 MHz, Vertical Polarity Plot/Table.....	16
8.1.4	Scanning Receiver Function, 200 MHz to 1000 MHz, Horizontal Polarity Plot.....	17
8.1.5	Scanning Receiver Function, 200 MHz to 1000 MHz, Horizontal Polarity Table.....	18
8.1.6	Scanning Receiver Function, 200 MHz to 1000 MHz, Vertical Polarity Plot.....	19
8.1.7	Scanning Receiver Function, 200 MHz to 1000 MHz, Vertical Polarity Table	20
8.1.8	Scanning Receiver Function, above 1000 MHz, Horizontal Polarity Plot.....	21
8.1.9	Scanning Receiver Function, above 1000 MHz, Horizontal Polarity Table.....	22
8.1.10	Scanning Receiver Function, above 1000 MHz, Vertical Polarity Plot	23
8.1.11	Scanning Receiver Function, above 1000 MHz, Vertical Polarity Table	24
8.1.12	25MHz, 30 MHz to 200 MHz, Horizontal Polarity Plot.....	25
8.1.13	25MHz, 30 MHz to 200 MHz, Horizontal Polarity Table.....	26
8.1.14	25MHz, 30 MHz to 200 MHz, Vertical Polarity Plot	27
8.1.15	25MHz, 30 MHz to 200 MHz, Vertical Polarity Table	28
8.1.16	25MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot	29
8.1.17	25MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table	30
8.1.18	25MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot.....	31
8.1.19	25MHz, 200 MHz to 1000 MHz, Vertical Polarity Table.....	32
8.1.20	54MHz, 30 MHz to 200 MHz, Horizontal Polarity Plot	33
8.1.21	54MHz, 30 MHz to 200 MHz, Horizontal Polarity Table	34
8.1.22	54MHz, 30 MHz to 200 MHz, Vertical Polarity Plot.....	35
8.1.23	54MHz, 30 MHz to 200 MHz, Vertical Polarity Table	36



8.1.24	54MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot	37
8.1.25	54MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table	38
8.1.26	54MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot	39
8.1.27	54MHz, 200 MHz to 1000 MHz, Vertical Polarity Table	40
8.1.28	108MHz, 30 MHz to 200 MHz, Horizontal Polarity Plot	41
8.1.29	108MHz, 30 MHz to 200 MHz, Horizontal Polarity Table	42
8.1.30	108MHz, 30 MHz to 200 MHz, Vertical Polarity Plot	43
8.1.31	108MHz, 30 MHz to 200 MHz, Vertical Polarity Table	44
8.1.32	108MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot	45
8.1.33	108MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table	46
8.1.34	108MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot	47
8.1.35	108MHz, 200 MHz to 1000 MHz, Vertical Polarity Table	48
8.1.36	108MHz, above 1000 MHz, Horizontal Polarity Plot	49
8.1.37	108MHz, above 1000 MHz, Horizontal Polarity Table	50
8.1.38	108MHz, above 1000 MHz, Vertical Polarity Plot	51
8.1.39	108MHz, above 1000 MHz, Vertical Polarity Table	52
8.1.40	174MHz, 30 MHz to 200 MHz, Horizontal Polarity Plot	53
8.1.41	174MHz, 30 MHz to 200 MHz, Horizontal Polarity Table	54
8.1.42	174MHz, 30 MHz to 200 MHz, Vertical Polarity Plot	55
8.1.43	174MHz, 30 MHz to 200 MHz, Vertical Polarity Table	56
8.1.44	174MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot	57
8.1.45	174MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table	58
8.1.46	174MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot	59
8.1.47	174MHz, 200 MHz to 1000 MHz, Vertical Polarity Table	60
8.1.48	174MHz, above 1000 MHz, Horizontal Polarity Plot	61
8.1.49	174MHz, above 1000 MHz, Horizontal Polarity Table	62
8.1.50	174MHz, above 1000 MHz, Vertical Polarity Plot	63
8.1.51	174MHz, above 1000 MHz, Vertical Polarity Table	64
8.1.52	406MHz, 30 MHz to 200 MHz, Horizontal Polarity Plot	65
8.1.53	406MHz, 30 MHz to 200 MHz, Horizontal Polarity Table	66
8.1.54	406MHz, 30 MHz to 200 MHz, Vertical Polarity Plot	67
8.1.55	406MHz, 30 MHz to 200 MHz, Vertical Polarity Table	68
8.1.56	406MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot	69
8.1.57	406MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table	70
8.1.58	406MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot	71
8.1.59	406MHz, 200 MHz to 1000 MHz, Vertical Polarity Table	72
8.1.60	406MHz, above 1000 MHz, Horizontal Polarity Plot	73
8.1.61	406MHz, above 1000 MHz, Horizontal Polarity Table	74
8.1.62	406MHz, above 1000 MHz, Vertical Polarity Plot	75
8.1.63	406MHz, above 1000 MHz, Vertical Polarity Table	76
8.1.64	512MHz, 30 MHz to 200 MHz, Horizontal Polarity Plot	77
8.1.65	512MHz, 30 MHz to 200 MHz, Horizontal Polarity Table	78
8.1.66	512MHz, 30 MHz to 200 MHz, Vertical Polarity Plot	79
8.1.67	512MHz, 30 MHz to 200 MHz, Vertical Polarity Table	80
8.1.68	512MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot	81
8.1.69	512MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table	82



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8.1.70	512MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot	83
8.1.71	512MHz, 200 MHz to 1000 MHz, Vertical Polarity Table	84
8.1.72	512MHz, above 1000 MHz, Horizontal Polarity Plot	85
8.1.73	512MHz, above 1000 MHz, Horizontal Polarity Table	86
8.1.74	512MHz, above 1000 MHz, Vertical Polarity Plot	87
8.1.75	512MHz, above 1000 MHz, Vertical Polarity Table	88
9.	ANNEX-A - PHOTOGRAPHS OF THE EUT	89
10.	ANNEX-B – TEST SETUP PHOTOGRAPHS	89
11.	HISTORY OF TEST REPORT CHANGES	89



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1. Customer Information

Applicant: Uniden America Corporation
Address: 6225 N State Highway 161
Suite 300
Irving, TX 75038

Technical Contact: Steve Roby
Telephone: 817-858-8624
Email address: SRoby@uniden.com

1.1 Test Result Summary

The following test procedure was used ANSI C63.4-2014. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.

Clauses	Description of the Requirements	Result (Pass, Fail or N/A)
Applicable Clauses from FCC 15 B		
15.107	Conducted Emission Limits	NA ⁽¹⁾
15.111 (a)	Receiver Conducted Power	NA
15.121	38 dB Rejection	NA ⁽¹⁾
15.109	Radiated Emission Limits	Pass

Notes:

- 1) Manufacturer provided attestation letter, no test required.



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2. Location of Testing

2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45, Newberry, Florida 32669

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

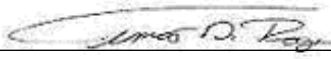


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2.2 Testing was performed, reviewed by

Dates of Testing: 3/2/2021

Signature:  _____
Name & Title: Franklin Rose, EMC Specialist
Date of Signature 3/2/2021

Signature:  _____
Name & Title: Tim Royer, EMC Engineer
Date of Signature 3/2/2021

Sr. EMC Engineer
EMC-003838-NE





3. Test Sample(s) (EUT/DUT)

The test sample was received: 3/2/2021

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification	
FCC ID:	AMWUB379
Brief Description	Handheld Scanning Receiver
Type of Modular	N/A
Model(s) #	BCD325P2
Firmware version	N/A
Software version	N/A
Serial Number	N/A

Technical Characteristics	
Technology	Handheld Scanning Receiver
Frequency Range	25 – 1300 MHz
RF O/P Power (Max.)	N/A
Modulation	N/A
Bandwidth & Emission Class	N/A
Number of Channels	N/A
Duty Cycle	N/A
Antenna Connector	N/A
Voltage Rating (AC or Batt.)	Battery

Antenna Characteristics			
Antenna	Frequency Range	Mode / BW	Antenna Gain
1	n/a	n/a	0 dBi
2			



3.2 Configuration of EUT

Band	Mode	Number of Ant.
	Receive	1

Operating conditions during Testing:

No modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT).

Peripherals used during Testing:

No peripherals used.

3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power-line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.



4. Test methods & Applicable Regulatory Limits

4.1 Test methods/Standards/Guidance

The measurement was performed as per FCC 15B. Full test results are available in this report.

Limits and Regulatory Limits:

- 1) FCC 15B

5. Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	1.42
Radiated Emissions (30 – 200 MHz)	5.49
Radiated Emissions (200 – 1000 MHz)	5.79
Radiated Emissions (1 GHz – 18 GHz)	4.37
The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.	

6. Environmental Conditions

Temperature & Humidity

Measurements performed at the test site did not exceed the following:

Parameter	Measurement
Temperature	23 C +/- 5%
Humidity	55% +/- 5%
Barometric Pressure	30.05 in Hg

Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.



7. List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

List of Test Equipment

Device	Manufacturer	Model	SN #	Current Cal	Cal Due
Active Loop	ETS-Lindgren	6502	00062529	10/20/20	10/20/2023
Biconical 1057	Eaton	94455-1	1057	10/16/20	10/16/2023
Log-Periodic 1243	Eaton	96005	1243	4/20/18	4/19/2021
Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	2/25/20	2/24/2023
Double-Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	00041534	10/14/20	10/14/2023
Double-Ridged Horn 18-40 GHz	EMCO	3116	9011-2145	10/19/20	10/19/2023
CHAMBER	Panashield	3M	N/A	3/12/19	3/11/2021
Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	2/27/19	2/26/2022
EMI Test Receiver R&S ESU 40	Rohde & Schwarz	ESU 40	100320	8/28/18	8/27/2021
LISN (Primary)	Electro-Metrics	ANS-25/2	225363	9/16/20	9/16/2023



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8. Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

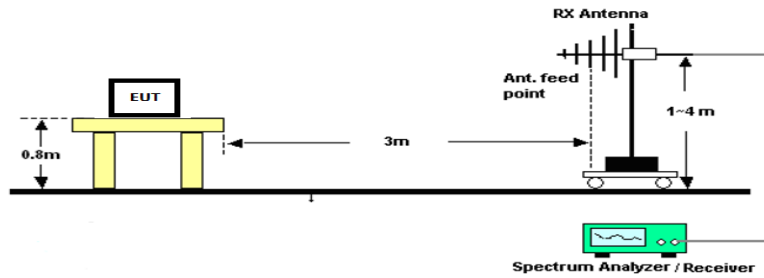
Units of measurement

Unless noted otherwise in the referenced standard, the measurements of ac power-line conducted emissions and conducted power output will be reported in units of dB μ V. Unless noted otherwise in the referenced standard, the measurements of radiated emissions will be reported in units of decibels, referenced to one microvolt per meter (dB μ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB μ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

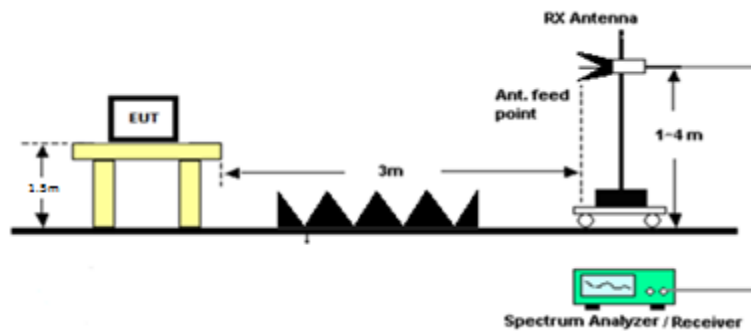
8.1 Radiated Emissions

Limits from FCC 15.109 and test procedure from ANSI C63.4-2014.

Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



8.1.1 Scanning Receiver Function, 30 MHz to 200 MHz, Horizontal Polarity Plot



02 Mar 21 16:59

Test Spec CISPR 22 Radiated Disturbances

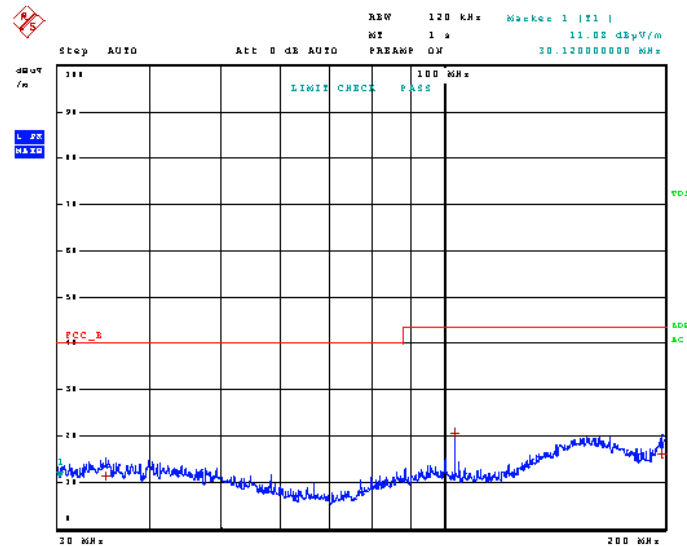
Polarity

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



Page 1 of 2



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8.1.2 Scanning Receiver Function, 30 MHz to 200 MHz, Horizontal Polarity Table

02.Mar 21 16:59

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	34.800000000 MHz	11.50	Quasi Peak	-28.50
1	103.760000000 MHz	20.40	Quasi Peak	-23.10
1	198.240000000 MHz	16.07	Quasi Peak	-27.43

Page 2 of 2

8.1.3 Scanning Receiver Function, 30 MHz to 200 MHz, Vertical Polarity Plot/Table



02 Mar 21 16:58

Test Spec CISPR 22 Radiated Disturbances

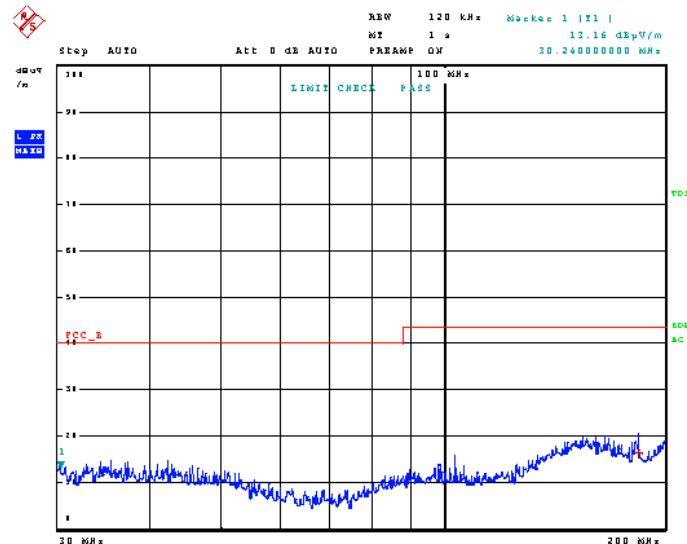
Polarity

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 µs	Auto	20 dB	INPUT1



Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	183.52000000 MHz	16.27	Quasi Peak	-27.23

Page 1 of 1

8.1.4 Scanning Receiver Function, 200 MHz to 1000 MHz, Horizontal Polarity Plot



02.Mar 21 16:50

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



Page 1 of 2



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8.1.5 Scanning Receiver Function, 200 MHz to 1000 MHz, Horizontal Polarity Table

02.Mar 21 16:50

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	419.000000000 MHz	16.18	Quasi Peak	-29.82
1	565.520000000 MHz	20.12	Quasi Peak	-25.88
1	762.170000000 MHz	24.23	Quasi Peak	-21.77
1	777.470000000 MHz	34.48	Quasi Peak	-11.52

Page 2 of 2

8.1.6 Scanning Receiver Function, 200 MHz to 1000 MHz, Vertical Polarity Plot



02 Mar 21 18:54

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



Page 1 of 2



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8.1.7 Scanning Receiver Function, 200 MHz to 1000 MHz, Vertical Polarity Table

02.Mar 21 16:54

Test Spec CISPR 22 Radiated Disturbances
Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	419.000000000 MHz	16.21	Quasi Peak	-29.79
1	567.470000000 MHz	20.06	Quasi Peak	-25.94
1	752.990000000 MHz	24.34	Quasi Peak	-21.66
1	777.470000000 MHz	34.47	Quasi Peak	-11.53

Page 2 of 2



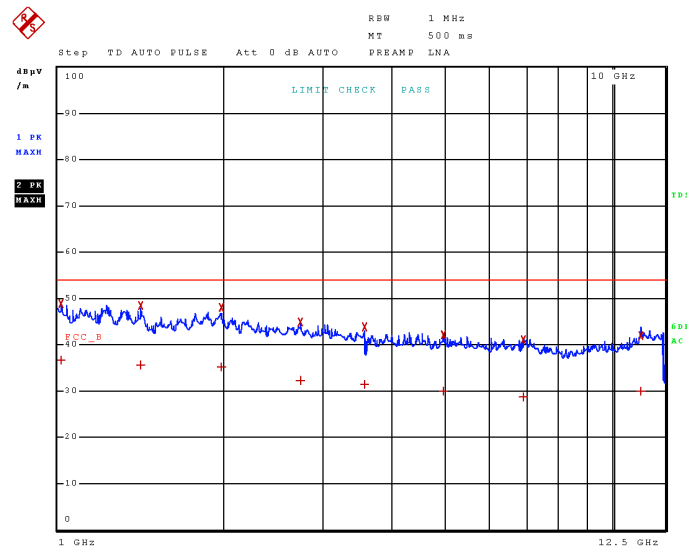
8.1.8 Scanning Receiver Function, above 1000 MHz, Horizontal Polarity Plot

02.Mar 21 19:33

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_05

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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8.1.9 Scanning Receiver Function, above 1000 MHz, Horizontal Polarity Table

02.Mar 21 19:33

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.012000000 GHz	36.68	CISPR Averag	-17.32
2	1.012000000 GHz	48.78	Max Peak	
1	1.408750000 GHz	35.59	CISPR Averag	-18.41
2	1.408750000 GHz	48.44	Max Peak	
1	1.972000000 GHz	35.09	CISPR Averag	-18.91
2	1.972000000 GHz	47.98	Max Peak	
1	2.739250000 GHz	32.34	CISPR Averag	-21.66
2	2.739250000 GHz	44.88	Max Peak	
1	3.581750000 GHz	31.43	CISPR Averag	-22.57
2	3.581750000 GHz	43.87	Max Peak	
1	4.967750000 GHz	29.93	CISPR Averag	-24.07
2	4.967750000 GHz	42.03	Max Peak	
1	6.931500000 GHz	28.63	CISPR Averag	-25.37
2	6.931500000 GHz	40.98	Max Peak	
1	11.280000000 GHz	29.91	CISPR Averag	-24.09
2	11.280000000 GHz	41.97	Max Peak	

Page 2 of 2

Page 22 of 90



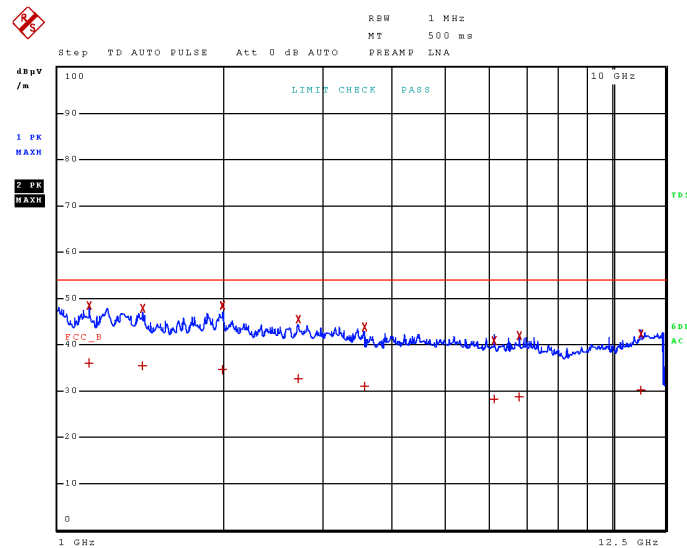
8.1.10 Scanning Receiver Function, above 1000 MHz, Vertical Polarity Plot

02.Mar 21 19:32

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_05

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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8.1.11 Scanning Receiver Function, above 1000 MHz, Vertical Polarity Table

02.Mar 21 19:32

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.136000000 GHz	36.08	CISPR Averag	-17.92
2	1.136000000 GHz	48.43	Max Peak	
1	1.420000000 GHz	35.35	CISPR Averag	-18.65
2	1.420000000 GHz	47.88	Max Peak	
1	1.978500000 GHz	34.57	CISPR Averag	-19.43
2	1.978500000 GHz	48.32	Max Peak	
1	2.719500000 GHz	32.71	CISPR Averag	-21.29
2	2.719500000 GHz	45.54	Max Peak	
1	3.599750000 GHz	30.99	CISPR Averag	-23.01
2	3.599750000 GHz	43.87	Max Peak	
1	6.140750000 GHz	28.26	CISPR Averag	-25.74
2	6.140750000 GHz	40.90	Max Peak	
1	6.802250000 GHz	28.67	CISPR Averag	-25.33
2	6.802250000 GHz	41.97	Max Peak	
1	11.291500000 GHz	30.09	CISPR Averag	-23.91
2	11.291500000 GHz	42.36	Max Peak	

Page 2 of 2

Page 24 of 90



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8.1.12 25MHz, 30 MHz to 200 MHz, Horizontal Polarity Plot



02 Mar 21 17:02

Test Spec CISPR 22 Radiated Disturbances

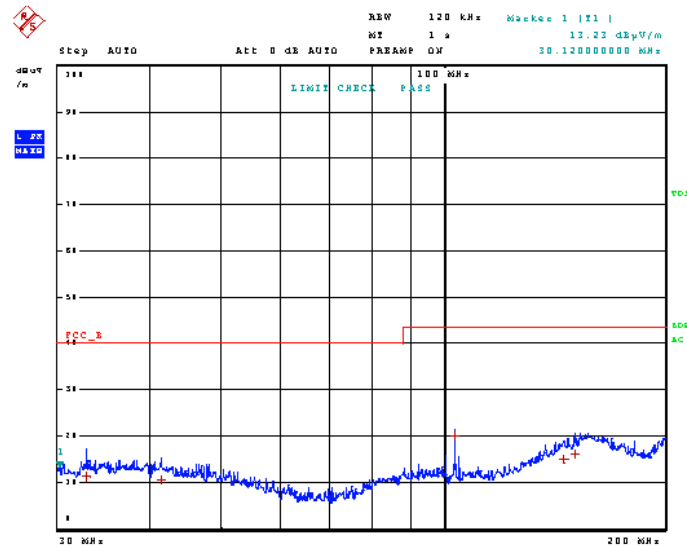
Polarity

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



Page 1 of 2



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8.1.13 25MHz, 30 MHz to 200 MHz, Horizontal Polarity Table

02.Mar 21 17:02

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	32.720000000 MHz	11.26	Quasi Peak	-28.74
1	41.320000000 MHz	10.54	Quasi Peak	-29.46
1	103.760000000 MHz	20.16	Quasi Peak	-23.34
1	145.640000000 MHz	15.06	Quasi Peak	-28.44
1	150.880000000 MHz	16.10	Quasi Peak	-27.40

Page 2 of 2





8.1.15 25MHz, 30 MHz to 200 MHz, Vertical Polarity Table

02.Mar 21 17:04

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	37.120000000 MHz	10.93	Quasi Peak	-29.07
1	156.400000000 MHz	16.52	Quasi Peak	-26.98



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8.1.16 25MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot



02 Mar 21 15:49

Test Spec CISPR 22 Radiated Disturbances

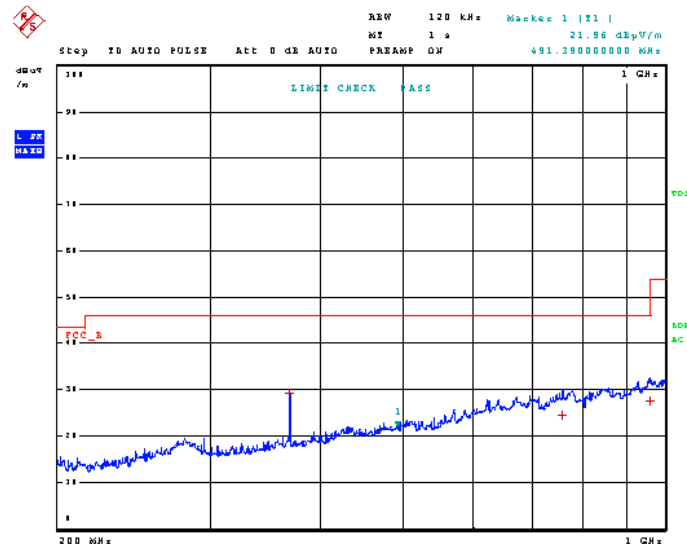
Polarity

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



Page 1 of 2



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8.1.17 25MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table

02.Mar 21 15:49

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	369.950000000 MHz	29.25	Quasi Peak	-16.75
1	761.060000000 MHz	24.38	Quasi Peak	-21.62
1	959.720000000 MHz	27.64	Quasi Peak	-18.36

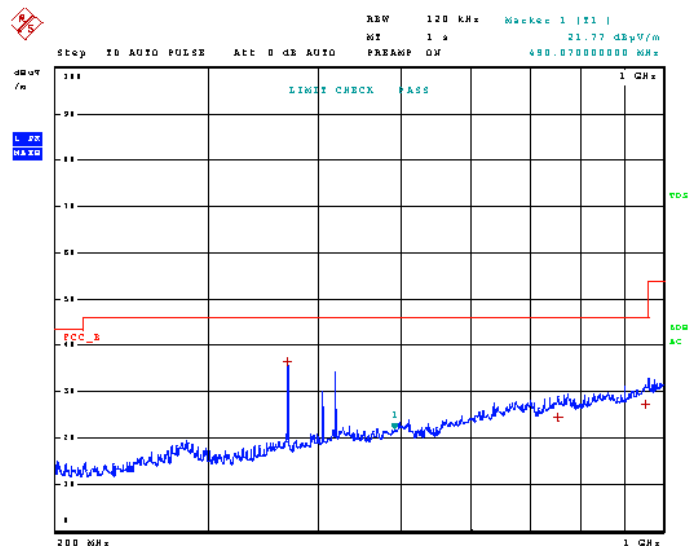
Page 2 of 2



Test Spec	CISPR 22 Radiated Disturbances
Polarity	Horizontal

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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8.1.19 25MHz, 200 MHz to 1000 MHz, Vertical Polarity Table

02.Mar 21 16:07

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	369.950000000 MHz	36.40	Quasi Peak	-9.60
1	756.500000000 MHz	24.46	Quasi Peak	-21.54
1	955.700000000 MHz	27.17	Quasi Peak	-18.83

Page 2 of 2





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8.1.21 54MHz, 30 MHz to 200 MHz, Horizontal Polarity Table

02.Mar 21 17:05

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	32.840000000 MHz	11.43	Quasi Peak	-28.57
1	103.680000000 MHz	20.58	Quasi Peak	-22.92
1	142.600000000 MHz	14.20	Quasi Peak	-29.30
1	153.160000000 MHz	16.13	Quasi Peak	-27.37

Page 2 of 2



Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Stepped Scan (1 Range)

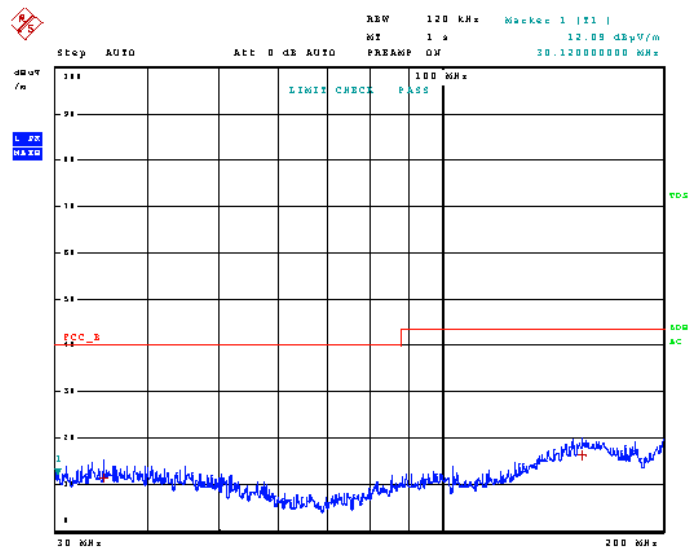
Scan Start: 30 MHz

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 μs	Auto	20 dB	INPUT1





8.1.23 54MHz, 30 MHz to 200 MHz, Vertical Polarity Table

02.Mar 21 17:05

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	34.800000000 MHz	11.49	Quasi Peak	-28.51
1	154.840000000 MHz	16.30	Quasi Peak	-27.20

Page 2 of 2

8.1.24 54MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot



02 Mar 21 18:09

Test Spec CISPR 22 Radiated Disturbances

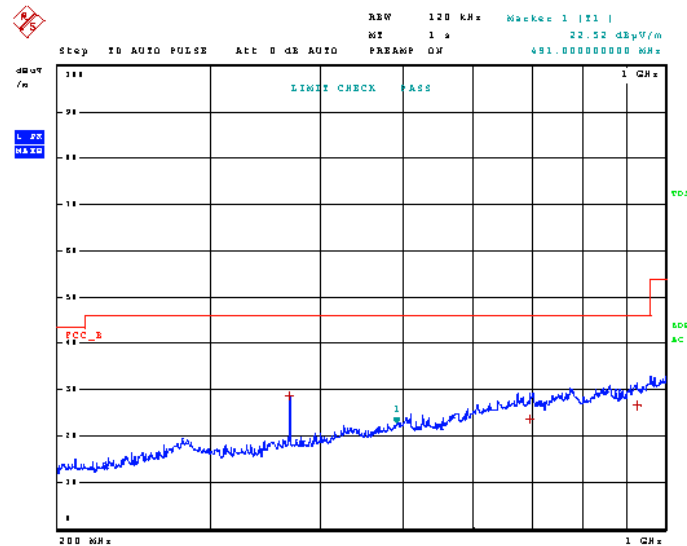
Polarity

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



Page 1 of 2



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8.1.25 54MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table

02.Mar 21 16:09

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	369.950000000 MHz	28.74	Quasi Peak	-17.26
1	698.930000000 MHz	23.74	Quasi Peak	-22.26
1	928.400000000 MHz	26.47	Quasi Peak	-19.53

Page 2 of 2



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8.1.26 54MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot



02.Mar 21 18:08

Test Spec CISPR 22 Radiated Disturbances

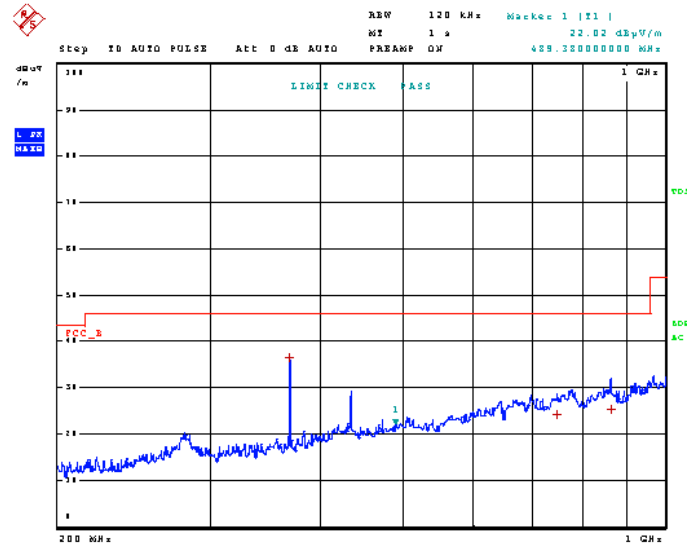
Polarity

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



Page 1 of 2



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8.1.27 54MHz, 200 MHz to 1000 MHz, Vertical Polarity Table

02.Mar 21 16:08

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	369.950000000 MHz	36.40	Quasi Peak	-9.60
1	750.770000000 MHz	24.23	Quasi Peak	-21.77
1	865.160000000 MHz	25.37	Quasi Peak	-20.63

Page 2 of 2



Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Stepped Scan (1 Range)

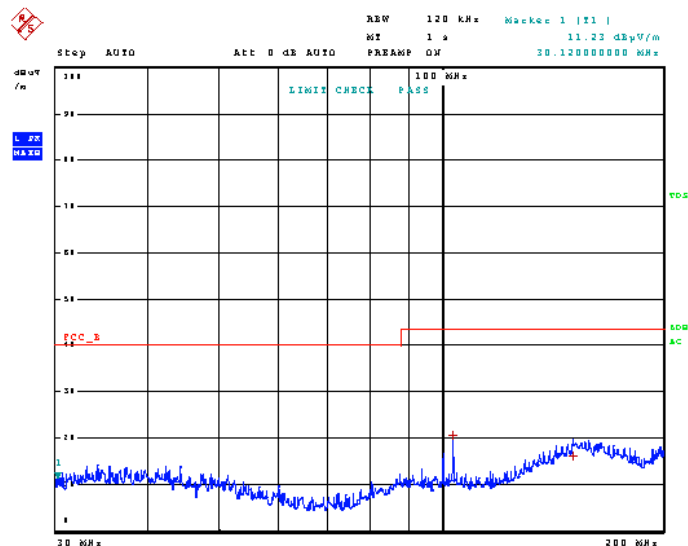
Scan Start: 30 MHz

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 μs	Auto	20 dB	INPUT1





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8.1.29 108MHz, 30 MHz to 200 MHz, Horizontal Polarity Table

02.Mar 21 17:06

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	103.720000000 MHz	20.42	Quasi Peak	-23.08
1	150.640000000 MHz	16.08	Quasi Peak	-27.42

Page 2 of 2

Page 42 of 90





8.1.31 108MHz, 30 MHz to 200 MHz, Vertical Polarity Table

02.Mar 21 17:07

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	142.000000000 MHz	14.09	Quasi Peak	-29.41
1	153.160000000 MHz	16.13	Quasi Peak	-27.37

8.1.32 108MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot



02.Mar 21 16:11

Test Spec CISPR 22 Radiated Disturbances

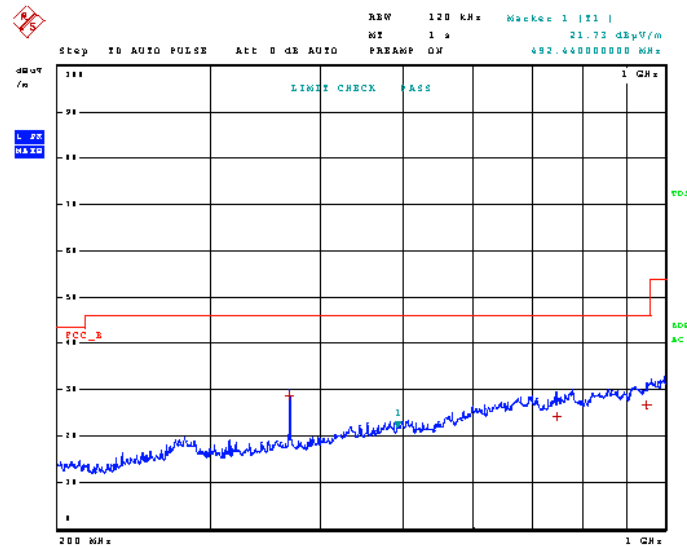
Polarity

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



Page 1 of 2



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8.1.33 108MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table

02.Mar 21 16:11

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	369.950000000 MHz	28.70	Quasi Peak	-17.30
1	751.340000000 MHz	24.21	Quasi Peak	-21.79
1	951.980000000 MHz	26.72	Quasi Peak	-19.28

Page 2 of 2



8.1.34 108MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot

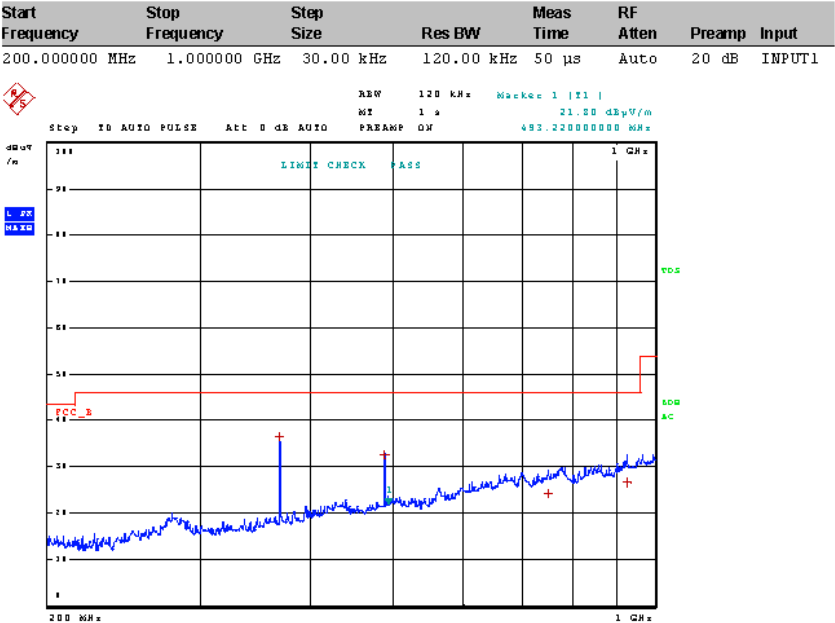


02.Mar 21 16:12

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





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8.1.35 108MHz, 200 MHz to 1000 MHz, Vertical Polarity Table

02.Mar 21 16:12

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	36.45	Quasi Peak	-9.55
1	488.240000000 MHz	32.72	Quasi Peak	-13.28
1	752.180000000 MHz	24.33	Quasi Peak	-21.67
1	926.900000000 MHz	26.55	Quasi Peak	-19.45

Page 2 of 2



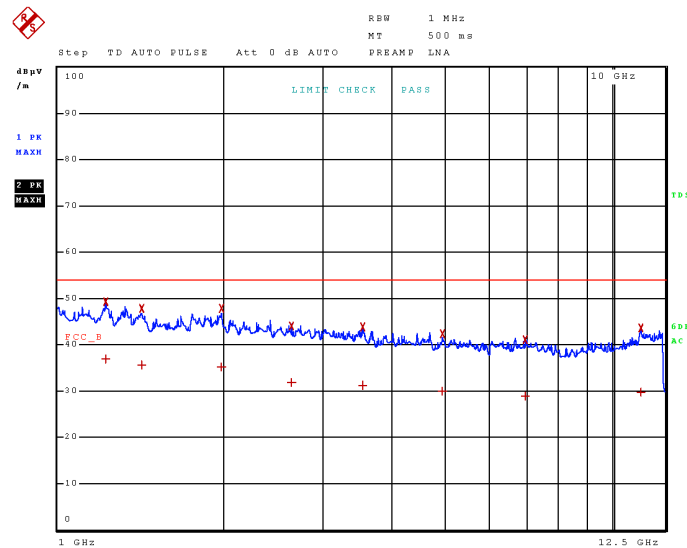
8.1.36 108MHz, above 1000 MHz, Horizontal Polarity Plot

02.Mar 21 19:24

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_05

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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8.1.37 108MHz, above 1000 MHz, Horizontal Polarity Table

02.Mar 21 19:24

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.219500000 GHz	36.81	CISPR Averag	-17.19
2	1.219500000 GHz	49.16	Max Peak	
1	1.415250000 GHz	35.62	CISPR Averag	-18.38
2	1.415250000 GHz	47.84	Max Peak	
1	1.970750000 GHz	35.17	CISPR Averag	-18.83
2	1.970750000 GHz	47.81	Max Peak	
1	2.642250000 GHz	31.86	CISPR Averag	-22.14
2	2.642250000 GHz	44.01	Max Peak	
1	3.552500000 GHz	31.29	CISPR Averag	-22.71
2	3.552500000 GHz	43.86	Max Peak	
1	4.954000000 GHz	29.87	CISPR Averag	-24.13
2	4.954000000 GHz	42.40	Max Peak	
1	6.985000000 GHz	28.86	CISPR Averag	-25.14
2	6.985000000 GHz	40.97	Max Peak	
1	11.319000000 GHz	29.72	CISPR Averag	-24.28
2	11.319000000 GHz	43.51	Max Peak	

Page 2 of 2



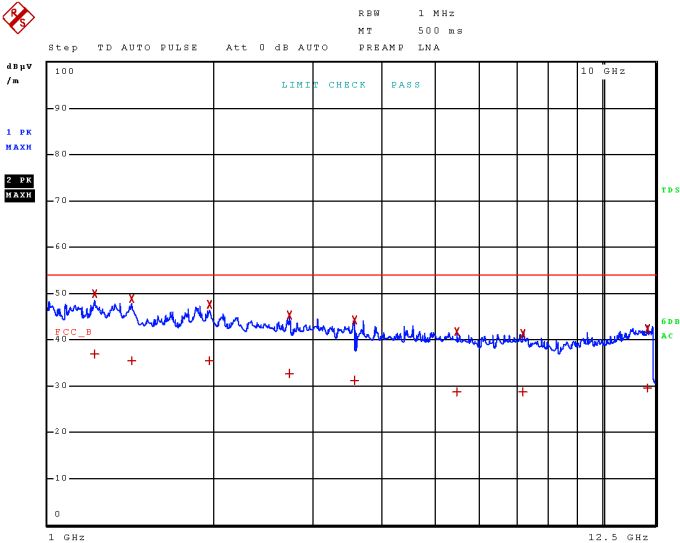
8.1.38 108MHz, above 1000 MHz, Vertical Polarity Plot

02.Mar 21 19:23

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_05

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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8.1.39 108MHz, above 1000 MHz, Vertical Polarity Table

02.Mar 21 19:23

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.213000000 GHz	36.77	CISPR Averag	-17.23
2	1.213000000 GHz	49.91	Max Peak	
1	1.418500000 GHz	35.47	CISPR Averag	-18.53
2	1.418500000 GHz	48.87	Max Peak	
1	1.961000000 GHz	35.42	CISPR Averag	-18.58
2	1.961000000 GHz	47.63	Max Peak	
1	2.731250000 GHz	32.64	CISPR Averag	-21.36
2	2.731250000 GHz	45.23	Max Peak	
1	3.595000000 GHz	31.17	CISPR Averag	-22.83
2	3.595000000 GHz	44.14	Max Peak	
1	5.468250000 GHz	28.77	CISPR Averag	-25.23
2	5.468250000 GHz	41.78	Max Peak	
1	7.215750000 GHz	28.64	CISPR Averag	-25.36
2	7.215750000 GHz	41.18	Max Peak	
1	12.121000000 GHz	29.42	CISPR Averag	-24.58
2	12.121000000 GHz	42.37	Max Peak	

Page 2 of 2

Page 52 of 90



8.1.40 174MHz, 30 MHz to 200 MHz, Horizontal Polarity Plot



02.Mar 21 17:08

Test Spec CISPR 22 Radiated Disturbances

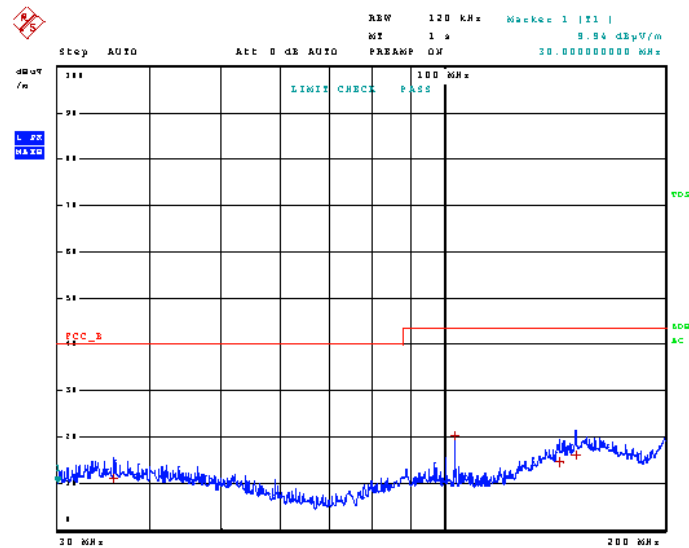
Polarity

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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8.1.41 174MHz, 30 MHz to 200 MHz, Horizontal Polarity Table

02.Mar 21 17:08

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	35.600000000 MHz	11.06	Quasi Peak	-28.94
1	103.680000000 MHz	20.30	Quasi Peak	-23.20
1	143.680000000 MHz	14.58	Quasi Peak	-28.92
1	151.160000000 MHz	16.06	Quasi Peak	-27.44

Page 2 of 2





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8.1.43 174MHz, 30 MHz to 200 MHz, Vertical Polarity Table

02.Mar 21 17:07

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	42.000000000 MHz	10.74	Quasi Peak	-29.26
1	154.720000000 MHz	16.31	Quasi Peak	-27.19

Page 2 of 2



8.1.44 174MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot



02.Mar.21 16:13

Test Spec CISPR 22 Radiated Disturbances

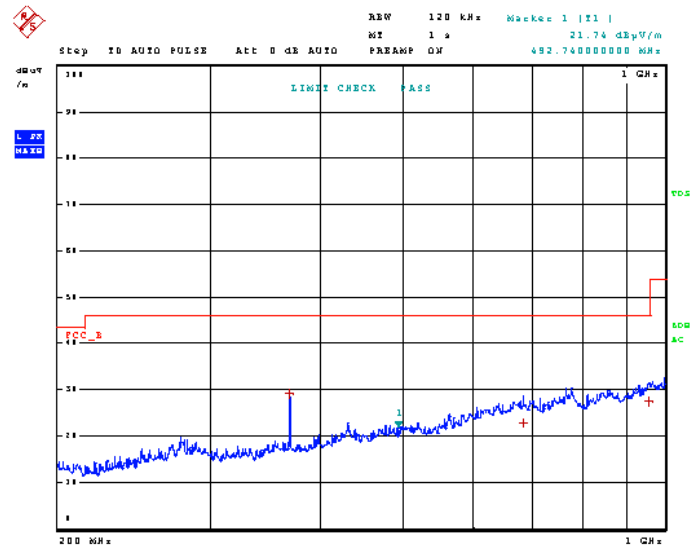
Polarity

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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8.1.45 174MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table

02.Mar 21 16:13

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	369.950000000 MHz	29.19	Quasi Peak	-16.81
1	685.550000000 MHz	22.85	Quasi Peak	-23.15
1	957.290000000 MHz	27.34	Quasi Peak	-18.66

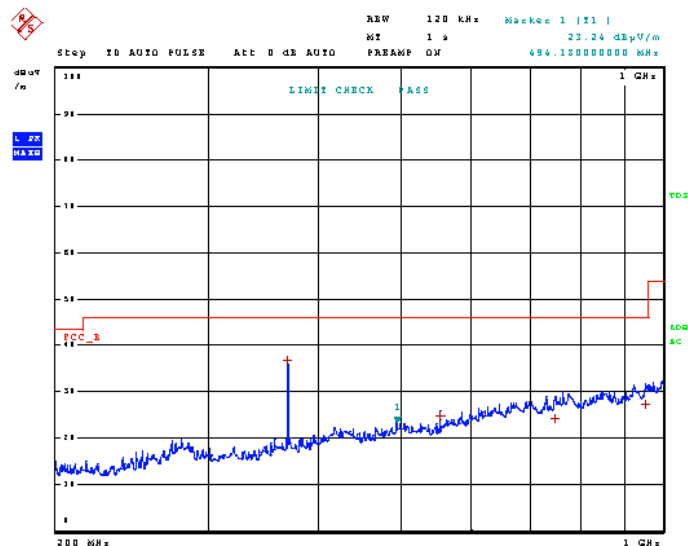
Page 2 of 2



Test Spec	CISPR 22 Radiated Disturbances
Polarity	Horizontal

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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8.1.47 174MHz, 200 MHz to 1000 MHz, Vertical Polarity Table

02.Mar 21 16:13

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	369.950000000 MHz	36.80	Quasi Peak	-9.20
1	553.970000000 MHz	24.71	Quasi Peak	-21.29
1	750.470000000 MHz	24.16	Quasi Peak	-21.84
1	955.490000000 MHz	27.15	Quasi Peak	-18.85

Page 2 of 2

Page 60 of 90



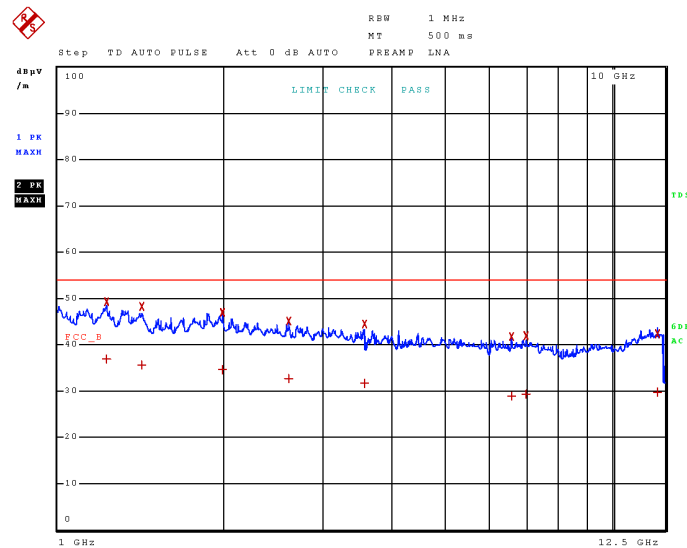
8.1.48 174MHz, above 1000 MHz, Horizontal Polarity Plot

02.Mar 21 19:25

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_05

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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8.1.49 174MHz, above 1000 MHz, Horizontal Polarity Table

02.Mar 21 19:25

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.225500000 GHz	36.78	CISPR Averag	-17.22
2	1.225500000 GHz	49.24	Max Peak	
1	1.414250000 GHz	35.66	CISPR Averag	-18.34
2	1.414250000 GHz	48.15	Max Peak	
1	1.979750000 GHz	34.59	CISPR Averag	-19.41
2	1.979750000 GHz	47.01	Max Peak	
1	2.612000000 GHz	32.63	CISPR Averag	-21.37
2	2.612000000 GHz	45.05	Max Peak	
1	3.577750000 GHz	31.56	CISPR Averag	-22.44
2	3.577750000 GHz	44.39	Max Peak	
1	6.590500000 GHz	28.87	CISPR Averag	-25.13
2	6.590500000 GHz	41.71	Max Peak	
1	7.020000000 GHz	29.24	CISPR Averag	-24.76
2	7.020000000 GHz	41.90	Max Peak	
1	12.105500000 GHz	29.79	CISPR Averag	-24.21
2	12.105500000 GHz	42.36	Max Peak	

Page 2 of 2

Page 62 of 90



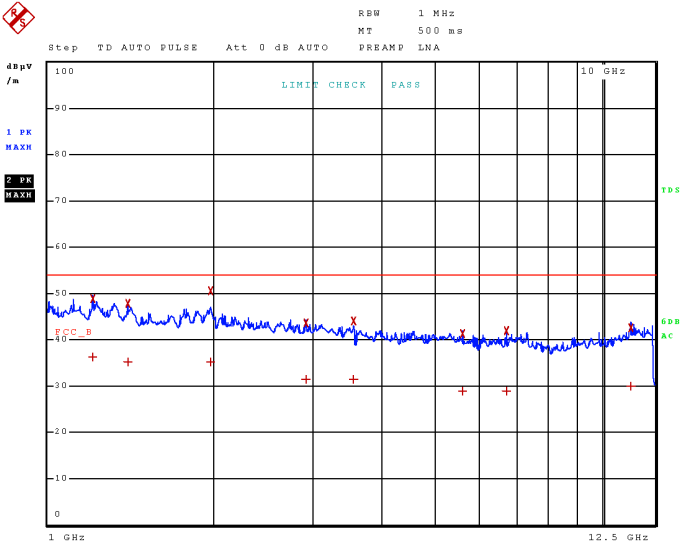
8.1.50 174MHz, above 1000 MHz, Vertical Polarity Plot

02.Mar 21 19:26

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_05

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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8.1.51 174MHz, above 1000 MHz, Vertical Polarity Table

02.Mar 21 19:26

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.202750000 GHz	36.20	CISPR Averag	-17.80
2	1.202750000 GHz	48.78	Max Peak	
1	1.394000000 GHz	35.22	CISPR Averag	-18.78
2	1.394000000 GHz	47.87	Max Peak	
1	1.968250000 GHz	35.12	CISPR Averag	-18.88
2	1.968250000 GHz	50.53	Max Peak	
1	2.921750000 GHz	31.44	CISPR Averag	-22.56
2	2.921750000 GHz	43.68	Max Peak	
1	3.560000000 GHz	31.48	CISPR Averag	-22.52
2	3.560000000 GHz	44.09	Max Peak	
1	5.617000000 GHz	28.98	CISPR Averag	-25.02
2	5.617000000 GHz	41.18	Max Peak	
1	6.720500000 GHz	28.88	CISPR Averag	-25.12
2	6.720500000 GHz	41.86	Max Peak	
1	11.293500000 GHz	29.90	CISPR Averag	-24.10
2	11.293500000 GHz	42.63	Max Peak	

Page 2 of 2

Page 64 of 90



02.Mar 21 17:09

Test Spec CISPR 22 Radiated Disturbances

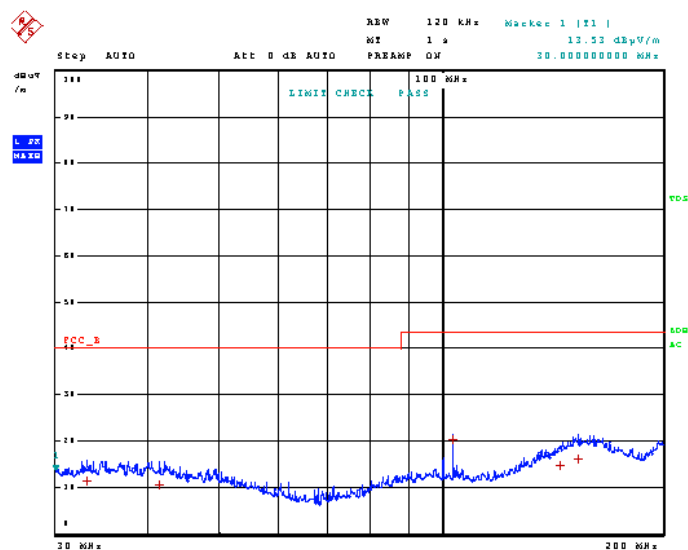
Polarity

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 us	Auto	20 dB	INPUT1





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8.1.53 406MHz, 30 MHz to 200 MHz, Horizontal Polarity Table

02.Mar 21 17:09

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	33.000000000 MHz	11.49	Quasi Peak	-28.51
1	41.320000000 MHz	10.56	Quasi Peak	-29.44
1	103.680000000 MHz	20.25	Quasi Peak	-23.25
1	144.920000000 MHz	14.91	Quasi Peak	-28.59
1	153.680000000 MHz	16.11	Quasi Peak	-27.39

Page 2 of 2



Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Stepped Scan (1 Range)

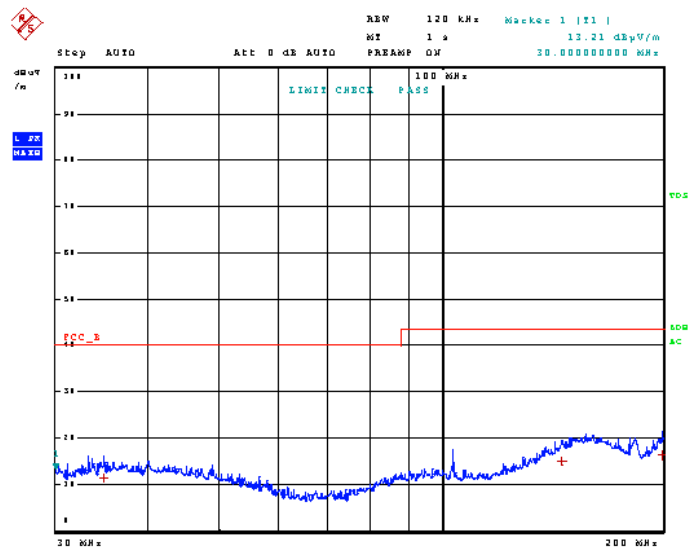
Scan Start: 30 MHz

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 μs	Auto	20 dB	INPUT1





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8.1.55 406MHz, 30 MHz to 200 MHz, Vertical Polarity Table

02.Mar 21 17:10

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	34.800000000 MHz	11.48	Quasi Peak	-28.52
1	145.640000000 MHz	15.06	Quasi Peak	-28.44
1	199.480000000 MHz	16.33	Quasi Peak	-27.17

Page 2 of 2

8.1.56 406MHz, 200 MHz to 1000 MHz, Horizontal Polarity Plot



02.Mar 21 16:14

Test Spec CISPR 22 Radiated Disturbances

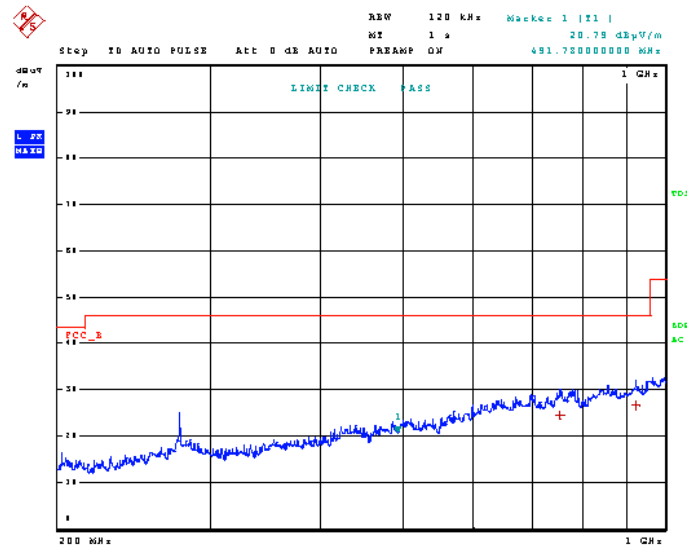
Polarity

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



Page 1 of 2



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8.1.57 406MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table

02.Mar 21 16:14

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	757.070000000 MHz	24.48	Quasi Peak	-21.52
1	924.560000000 MHz	26.52	Quasi Peak	-19.48

Page 2 of 2



8.1.58 406MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot



02 Mar 21 16:14

Test Spec CISPR 22 Radiated Disturbances

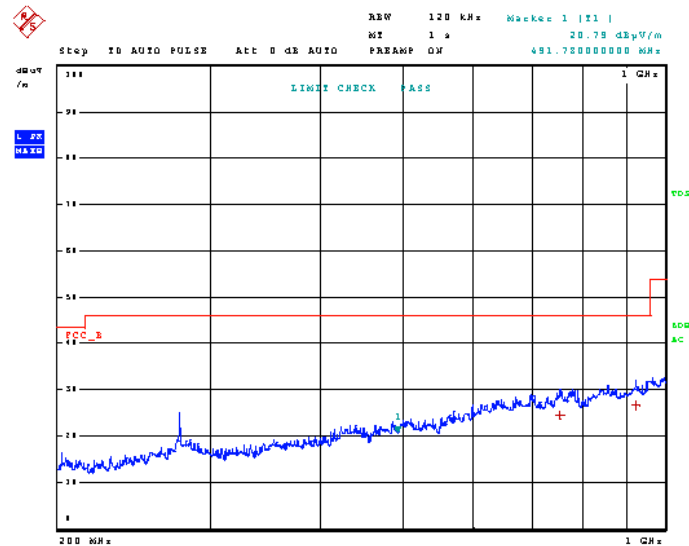
Polarity

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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8.1.59 406MHz, 200 MHz to 1000 MHz, Vertical Polarity Table

02.Mar 21 16:14

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	757.070000000 MHz	24.48	Quasi Peak	-21.52
1	924.560000000 MHz	26.52	Quasi Peak	-19.48

Page 2 of 2



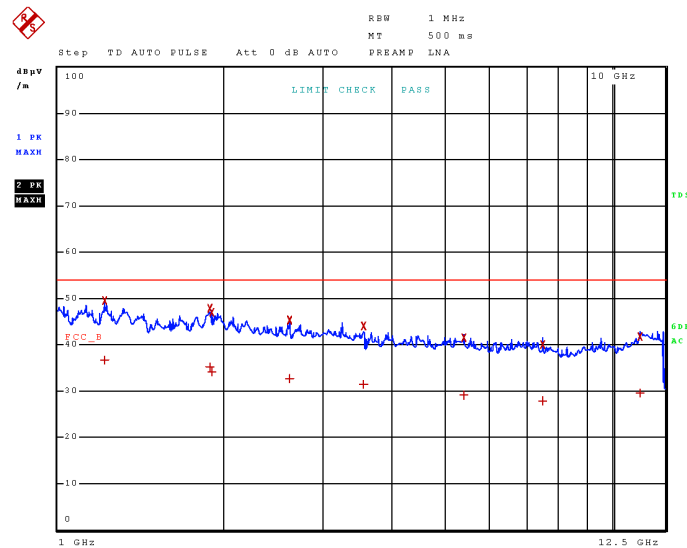
8.1.60 406MHz, above 1000 MHz, Horizontal Polarity Plot

02.Mar 21 19:28

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_05

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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8.1.61 406MHz, above 1000 MHz, Horizontal Polarity Table

02.Mar 21 19:28

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.214500000 GHz	36.72	CISPR Averag	-17.28
2	1.214500000 GHz	49.41	Max Peak	
1	1.877750000 GHz	35.09	CISPR Averag	-18.91
2	1.877750000 GHz	47.69	Max Peak	
1	1.892500000 GHz	34.21	CISPR Averag	-19.79
2	1.892500000 GHz	46.97	Max Peak	
1	2.616000000 GHz	32.57	CISPR Averag	-21.43
2	2.616000000 GHz	45.34	Max Peak	
1	3.561250000 GHz	31.49	CISPR Averag	-22.51
2	3.561250000 GHz	43.98	Max Peak	
1	5.405000000 GHz	29.10	CISPR Averag	-24.90
2	5.405000000 GHz	41.42	Max Peak	
1	7.518000000 GHz	27.76	CISPR Averag	-26.24
2	7.518000000 GHz	40.00	Max Peak	
1	11.266750000 GHz	29.56	CISPR Averag	-24.44
2	11.266750000 GHz	41.67	Max Peak	

Page 2 of 2

Page 74 of 90



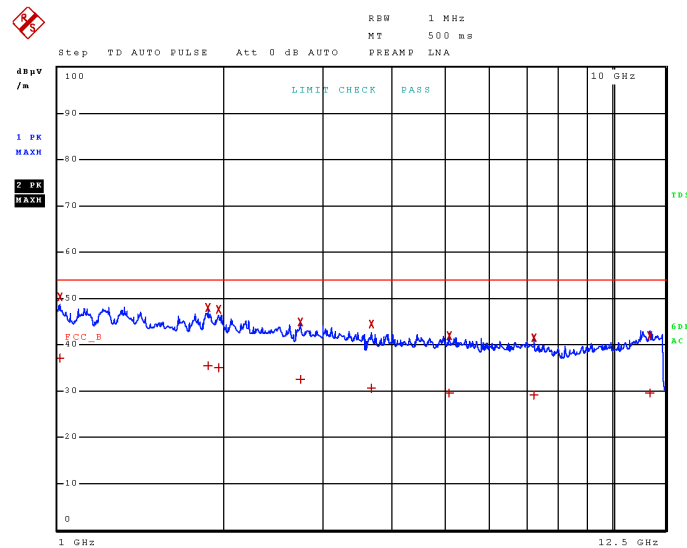
8.1.62 406MHz, above 1000 MHz, Vertical Polarity Plot

02.Mar 21 19:27

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_05

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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8.1.63 406MHz, above 1000 MHz, Vertical Polarity Table

02.Mar 21 19:27

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.008750000 GHz	37.11	CISPR Averag	-16.89
2	1.008750000 GHz	50.26	Max Peak	
1	1.867250000 GHz	35.37	CISPR Averag	-18.63
2	1.867250000 GHz	48.00	Max Peak	
1	1.947250000 GHz	34.95	CISPR Averag	-19.05
2	1.947250000 GHz	47.59	Max Peak	
1	2.736500000 GHz	32.49	CISPR Averag	-21.51
2	2.736500000 GHz	44.83	Max Peak	
1	3.684750000 GHz	30.60	CISPR Averag	-23.40
2	3.684750000 GHz	44.54	Max Peak	
1	5.094750000 GHz	29.49	CISPR Averag	-24.51
2	5.094750000 GHz	41.84	Max Peak	
1	7.237000000 GHz	29.02	CISPR Averag	-24.98
2	7.237000000 GHz	41.54	Max Peak	
1	11.733250000 GHz	29.61	CISPR Averag	-24.39
2	11.733250000 GHz	41.92	Max Peak	

Page 2 of 2

Page 76 of 90



8.1.64 512MHz, 30 MHz to 200 MHz, Horizontal Polarity Plot



02.Mar.21 17:11

Test Spec CISPR 22 Radiated Disturbances

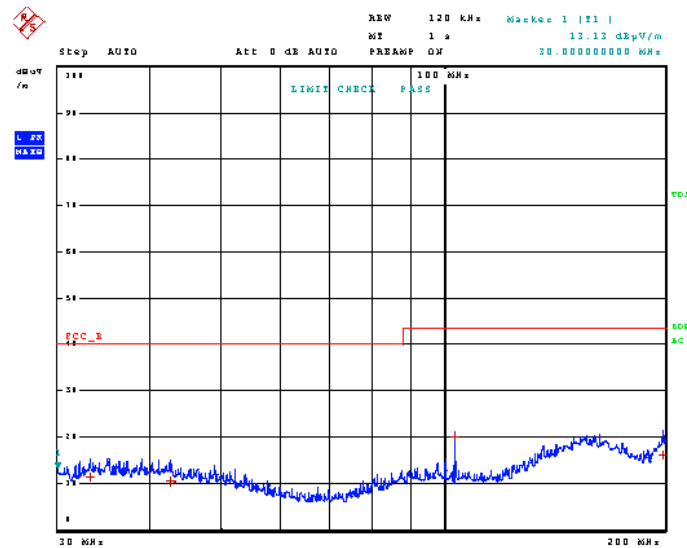
Polarity

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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8.1.65 512MHz, 30 MHz to 200 MHz, Horizontal Polarity Table

02.Mar 21 17:11

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	33.080000000 MHz	11.46	Quasi Peak	-28.54
1	42.640000000 MHz	10.44	Quasi Peak	-29.56
1	103.680000000 MHz	20.16	Quasi Peak	-23.34
1	198.760000000 MHz	16.11	Quasi Peak	-27.39

Page 2 of 2



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8.1.66 512MHz, 30 MHz to 200 MHz, Vertical Polarity Plot



02 Mar 21 17:11

Test Spec CISPR 22 Radiated Disturbances

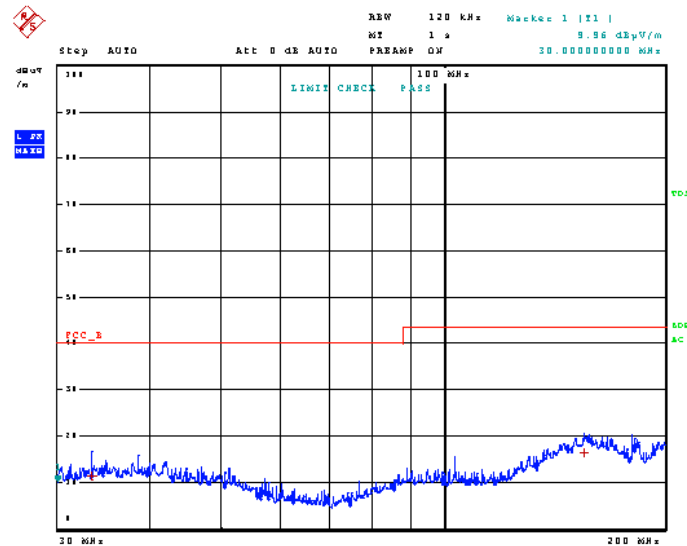
Polarity

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



Page 1 of 2



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8.1.67 512MHz, 30 MHz to 200 MHz, Vertical Polarity Table

02.Mar 21 17:11

Test Spec CISPR 22 Radiated Disturbances
Polarity
Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 2

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	33.320000000 MHz	11.43	Quasi Peak	-28.57
1	155.560000000 MHz	16.44	Quasi Peak	-27.06

Page 2 of 2



Test Spec	CISPR 22 Radiated Disturbances
Polarity	Horizontal

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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8.1.69 512MHz, 200 MHz to 1000 MHz, Horizontal Polarity Table

02.Mar 21 16:49

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	740.270000000 MHz	23.35	Quasi Peak	-22.65
1	777.470000000 MHz	37.40	Quasi Peak	-8.60

Page 2 of 2

8.1.70 512MHz, 200 MHz to 1000 MHz, Vertical Polarity Plot



02.Mar 21 16:48

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



Page 1 of 2



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8.1.71 512MHz, 200 MHz to 1000 MHz, Vertical Polarity Table

02.Mar 21 16:48

Test Spec CISPR 22 Radiated Disturbances

Polarity

Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	419.000000000 MHz	17.78	Quasi Peak	-28.22
1	552.710000000 MHz	27.84	Quasi Peak	-18.16
1	701.390000000 MHz	23.93	Quasi Peak	-22.07
1	777.470000000 MHz	34.40	Quasi Peak	-11.60

Page 2 of 2



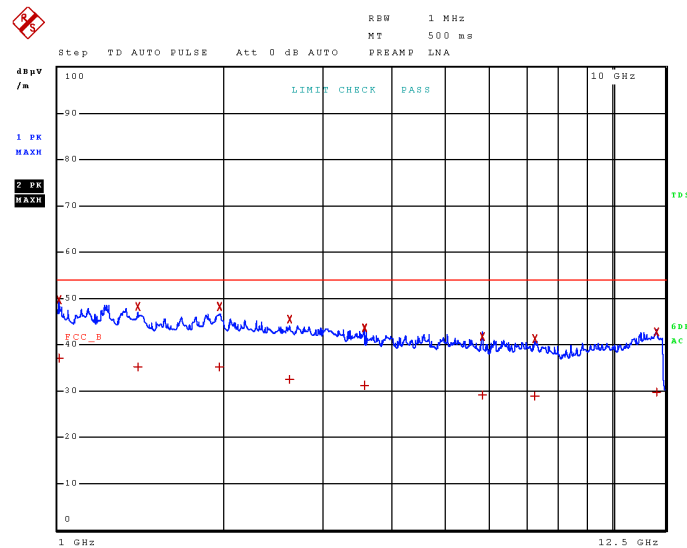
8.1.72 512MHz, above 1000 MHz, Horizontal Polarity Plot

02.Mar 21 19:29

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_05

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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8.1.73 512MHz, above 1000 MHz, Horizontal Polarity Table

02.Mar 21 19:29

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.005250000 GHz	37.10	CISPR Averag	-16.90
2	1.005250000 GHz	49.64	Max Peak	
1	1.393750000 GHz	35.27	CISPR Averag	-18.73
2	1.393750000 GHz	48.11	Max Peak	
1	1.958500000 GHz	35.22	CISPR Averag	-18.78
2	1.958500000 GHz	48.12	Max Peak	
1	2.621000000 GHz	32.53	CISPR Averag	-21.47
2	2.621000000 GHz	45.43	Max Peak	
1	3.594500000 GHz	31.14	CISPR Averag	-22.86
2	3.594500000 GHz	43.49	Max Peak	
1	5.830000000 GHz	29.07	CISPR Averag	-24.93
2	5.830000000 GHz	41.79	Max Peak	
1	7.260250000 GHz	28.84	CISPR Averag	-25.16
2	7.260250000 GHz	41.30	Max Peak	
1	12.075500000 GHz	29.64	CISPR Averag	-24.36
2	12.075500000 GHz	42.77	Max Peak	

Page 2 of 2

Page 86 of 90



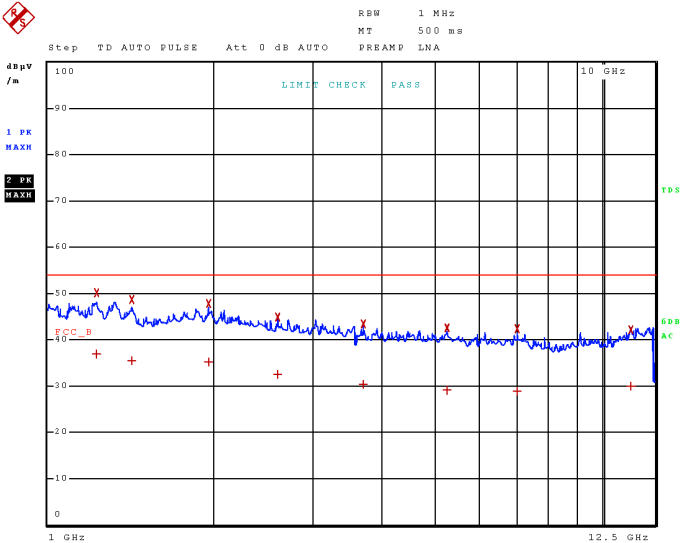
8.1.74 512MHz, above 1000 MHz, Vertical Polarity Plot

02.Mar 21 19:30

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_05

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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8.1.75 512MHz, above 1000 MHz, Vertical Polarity Table

02.Mar 21 19:30

Final Measurement

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

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.221750000 GHz	36.83	CISPR Averag	-17.17
2	1.221750000 GHz	50.05	Max Peak	
1	1.417750000 GHz	35.43	CISPR Averag	-18.57
2	1.417750000 GHz	48.58	Max Peak	
1	1.952250000 GHz	35.26	CISPR Averag	-18.74
2	1.952250000 GHz	47.76	Max Peak	
1	2.597500000 GHz	32.45	CISPR Averag	-21.55
2	2.597500000 GHz	44.76	Max Peak	
1	3.704750000 GHz	30.36	CISPR Averag	-23.64
2	3.704750000 GHz	43.48	Max Peak	
1	5.257000000 GHz	29.09	CISPR Averag	-24.91
2	5.257000000 GHz	42.51	Max Peak	
1	7.031250000 GHz	28.92	CISPR Averag	-25.08
2	7.031250000 GHz	42.26	Max Peak	
1	11.278750000 GHz	29.85	CISPR Averag	-24.15
2	11.278750000 GHz	42.11	Max Peak	

Page 2 of 2

Page 88 of 90



9. ANNEX-A - Photographs of the EUT

Photographs of the EUT and any manufacturer supplied accessories to be used with the EUT are in a separate document.

10. ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate document.

11. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_0941-21_FCC_15B_Scanning Reciever_1	1	Initial release	3/2/2021
TR_0941-21_FCC_15B_Scanning Reciever_2	2	Updated Page 5 and Page 8	4/1/2021



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END OF TEST REPORT
