

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 115 MHz Field Strength Plot, Horiz. Polarity



29.Jan 18 13:51

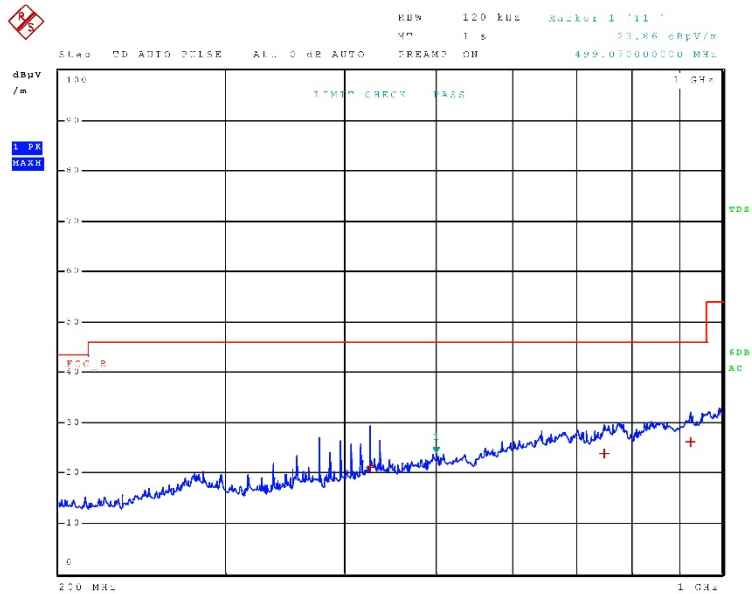
Test Spec CISPR 22 Radiated Disturbances

Polarity
H

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: Middle of Band 115 MHz Field Strength Table, Horiz. Polarity

29.Jan 18 13:51

Test Spec CISPR 22 Radiated Disturbances

Polarity

H

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	426.140000000 MHz	21.19	Quasi Peak	-24.81
1	750.110000000 MHz	23.82	Quasi Peak	-22.18
1	924.350000000 MHz	26.18	Quasi Peak	-19.82

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FCC ID: K6603770X30
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 115 MHz Field Strength Plot, Vert. Polarity



29.Jan 18 13:52

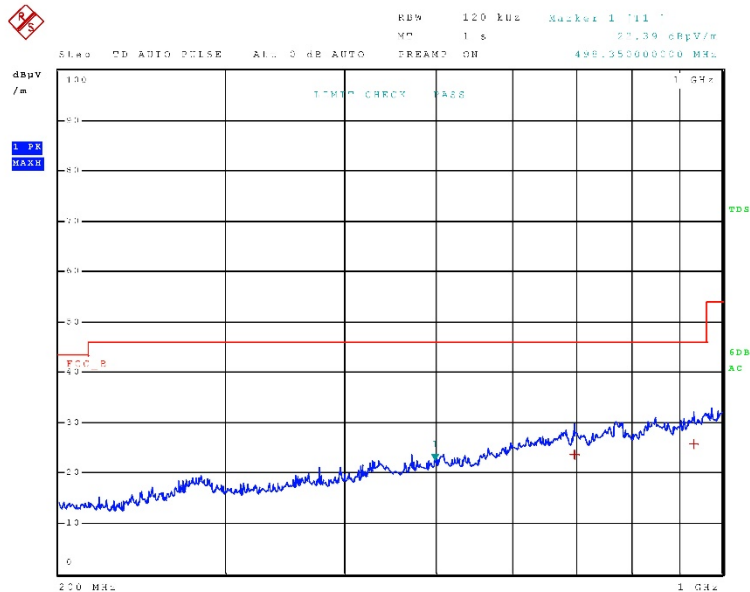
Test Spec CISPR 22 Radiated Disturbances

Polarity
V

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: Middle of Band 115 MHz Field Strength Table, Vert. Polarity

29 Jan 18 14:14

Test Spec CISPR 22 Radiated Disturbances

Polarity
V

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	701.390000000 MHz	23.69	Quasi Peak	-22.31
1	955.400000000 MHz	26.91	Quasi Peak	-19.09

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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 154 MHz Field Strength Plot, Horiz. Polarity



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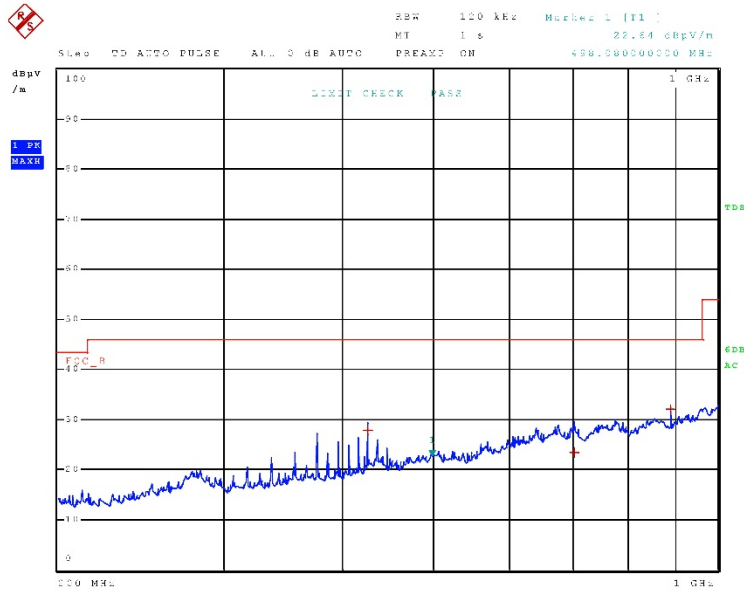
Test Spec: CISPR 22 Radiated Disturbances

Polarity: H

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: High End of Band 154 MHz Field Strength Table, Horiz. Polarity

29.Jan 18 13:54

Test Spec CISPR 22 Radiated Disturbances

Polarity

H

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	426.140000000 MHz	27.93	Quasi Peak	-18.07
1	703.820000000 MHz	23.53	Quasi Peak	-22.47
1	889.310000000 MHz	31.99	Quasi Peak	-14.01

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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 154 MHz Field Strength Plot, Vert. Polarity



29.Jan 18 13:53

Test Spec CISPR 22 Radiated Disturbances

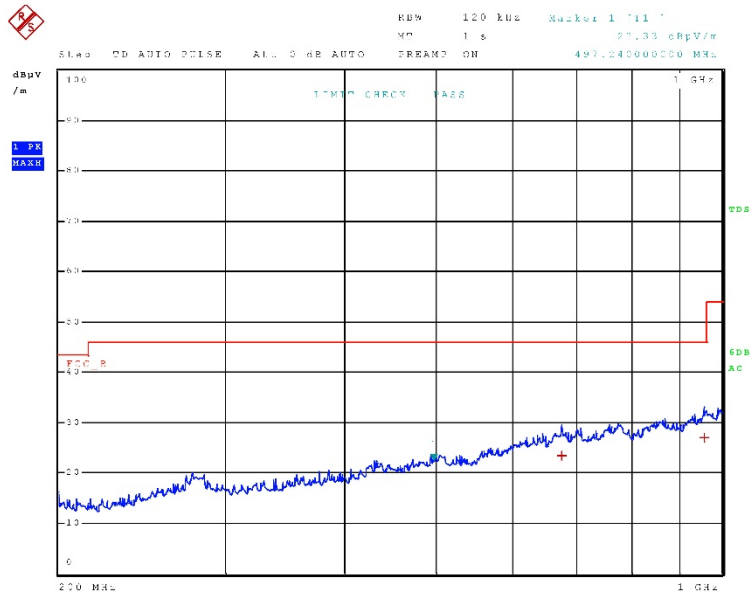
Polarity

V

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: High End of Band 154 MHz Field Strength Table, Vert. Polarity

29 Jan 18 13:53

Test Spec CISPR 22 Radiated Disturbances

Polarity
V

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	676.790000000 MHz	23.40	Quasi Peak	-22.60
1	956.480000000 MHz	27.01	Quasi Peak	-18.99

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RADIATED SPURIOUS EMISSIONS

420 MHz to 470 MHz Receiver Band, Scanned 200 MHz to 1 GHz

Test Data: Low End of Band 420 MHz Field Strength Plot, Horiz. Polarity



29.Jan 18 13:55

Test Spec CISPR 22 Radiated Disturbances

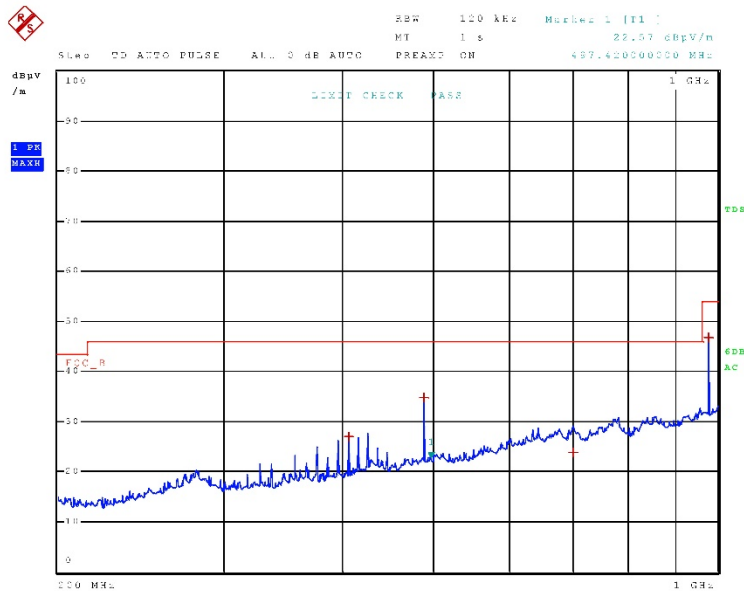
Polarity

H

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 420 MHz Field Strength Table, Horiz. Polarity

29 Jan 18 13:55

Test Spec CISPR 22 Radiated Disturbances

Polarity
H

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	406.310000000 MHz	27.09	Quasi Peak	-18.91
1	488.330000000 MHz	34.71	Quasi Peak	-11.29
1	702.920000000 MHz	23.77	Quasi Peak	-22.23
1	976.670000000 MHz	46.79	Quasi Peak	-7.21

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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 420 MHz Field Strength Plot, Vert. Polarity



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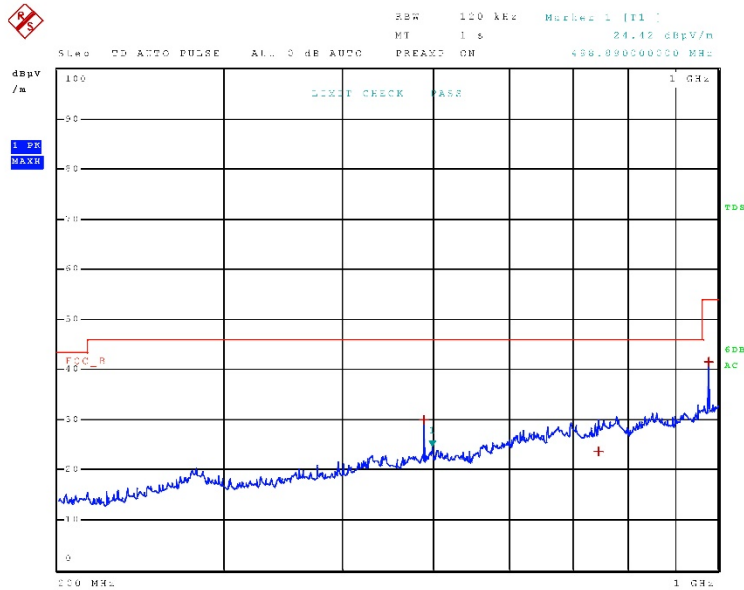
Test Spec: CISPR 22 Radiated Disturbances

Polarity: V

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 420 MHz Field Strength Table, Vert. Polarity

29.Jan 18 13:58

Test Spec CISPR 22 Radiated Disturbances

Polarity
V

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	488.330000000 MHz	29.85	Quasi Peak	-16.15
1	746.300000000 MHz	23.53	Quasi Peak	-22.47
1	976.670000000 MHz	41.49	Quasi Peak	-12.51

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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 445 MHz Field Strength Plot, Horiz. Polarity



29.Jan 18 14:02

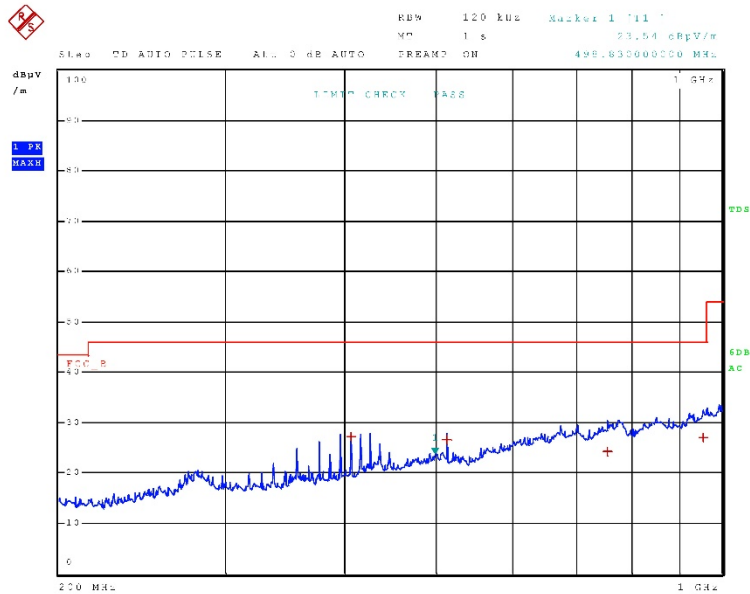
Test Spec CISPR 22 Radiated Disturbances

Polarity
H

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: Middle of Band 445 MHz Field Strength Table, Horiz. Polarity

29.Jan 18 14:02

Test Spec CISPR 22 Radiated Disturbances

Polarity

H

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	406.310000000 MHz	27.12	Quasi Peak	-18.88
1	513.320000000 MHz	26.67	Quasi Peak	-19.33
1	756.020000000 MHz	24.20	Quasi Peak	-21.80
1	954.770000000 MHz	26.90	Quasi Peak	-19.10

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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 445 MHz Field Strength Plot, Vert. Polarity



29.Jan 18 14:00

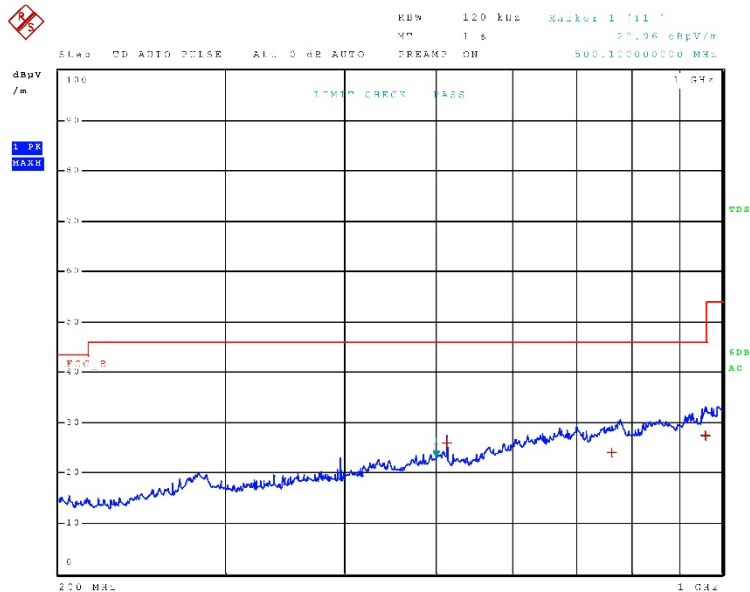
Test Spec CISPR 22 Radiated Disturbances

Polarity
V

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: Middle of Band 445 MHz Field Strength Table, Vert. Polarity

29.Jan 18 14:00

Test Spec CISPR 22 Radiated Disturbances

Polarity
V

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	513.350000000 MHz	25.85	Quasi Peak	-20.15
1	764.390000000 MHz	24.07	Quasi Peak	-21.93
1	958.790000000 MHz	27.31	Quasi Peak	-18.69

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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 470 MHz Field Strength Plot, Horiz. Polarity



29.Jan 18 14:04

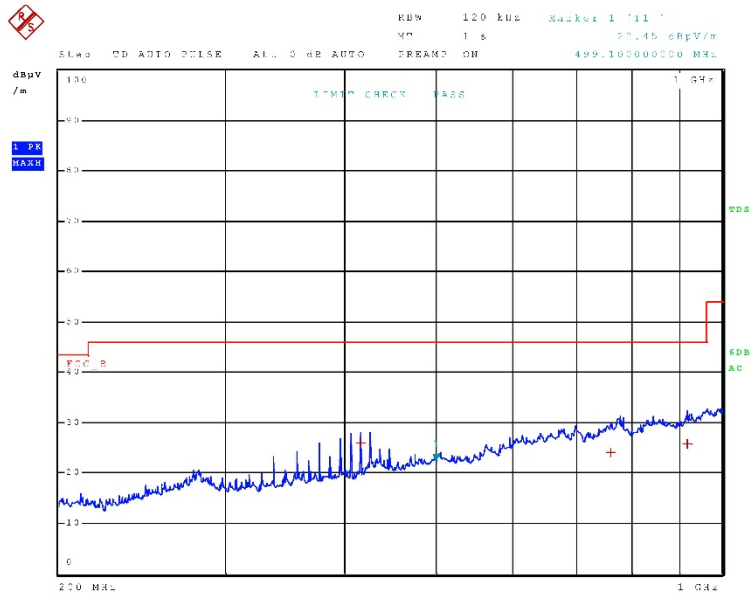
Test Spec CISPR 22 Radiated Disturbances

Polarity
H

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: High End of Band 470 MHz Field Strength Table, Horiz. Polarity

29.Jan 18 14:04

Test Spec CISPR 22 Radiated Disturbances

Polarity
H

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	416.240000000 MHz	25.85	Quasi Peak	-20.15
1	763.550000000 MHz	24.09	Quasi Peak	-21.91
1	917.270000000 MHz	25.64	Quasi Peak	-20.36

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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 470 MHz Field Strength Plot, Vert. Polarity



29.Jan 18 14:05

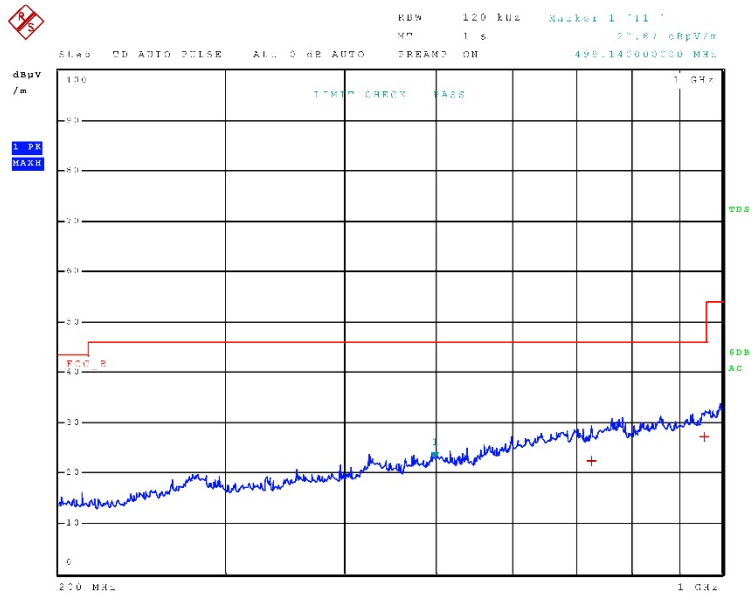
Test Spec CISPR 22 Radiated Disturbances

Polarity
V

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 µs	Auto	20 dB	INPUT1





RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 470 MHz Field Strength Table, Vert. Polarity

29 Jan 18 14:05

Test Spec CISPR 22 Radiated Disturbances

Polarity
V

Final Measurement

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

Trace	Frequency	Level (dB μ V/m)	Detector	Delta Limit/dB
1	728.240000000 MHz	22.36	Quasi Peak	-23.64
1	958.940000000 MHz	27.24	Quasi Peak	-18.76

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ANTENNA CONDUCTED POWER

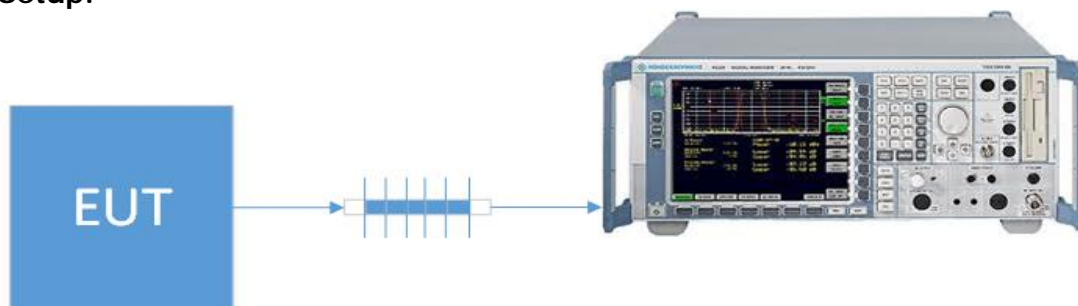
Rule Part No.: FCC Part 15 Subpart B

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.

TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconical 1057	Eaton	94455-1	1057	12/13/17	12/13/19
Antenna: Log-Periodic 1243	Eaton	96005	1243	02/09/16	02/09/18
Coaxial Cable - Chamber 3 cable set (backup)	Micro-Coax	Chamber 3 cable set (backup)	KMKM-0244- 02 ; KMKM- 0670-01; KFKF-0197- 00	N/A	N/A
CHAMBER	Panashield	3M	N/A	04/25/16	1/31/18
Antenna: Double- Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	01/30/17	01/30/19
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	04/01/16	04/01/18
Bore-sight Antenna Positioning Tower	Sunol Sciences	TLT2	N/A	N/A	N/A

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

END OF TEST REPORT