





G16152056

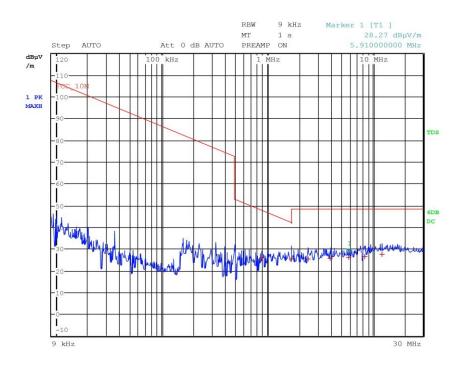
Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152056

Test Spec



Final Measurement

Trace	Frequency	1	Level (dBµV	//m) Detector	Delta Limit/dB
1	882.000000000	kHz	25.99	Quasi Peak	-21.79
1	1.682000000	MHz	25.36	Quasi Peak	-16.81
1	2.442000000	MHz	25.45	Quasi Peak	-23.18
1	3.954000000	MHz	25.65	Quasi Peak	-22.98
1	5.910000000	MHz	26.25	Quasi Peak	-22.38
1	8.338000000	MHz	26.51	Quasi Peak	-22.12
1	12.246000000	MHz	27.47	Ouasi Peak	-21.16







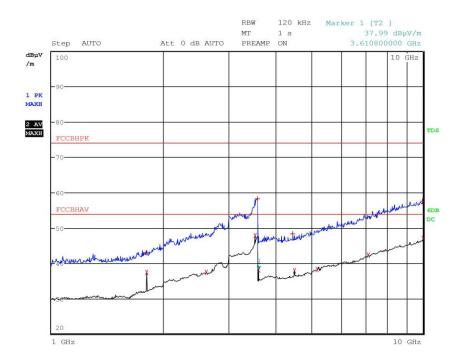
G16152057

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152057









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152057

Test Spec

Final Measurement

Trace	Frequency	Level (dBµV	//m) Detector	Delta Limit/dB
1	1.799600000 GH	z 42.89	Max Peak	-31.11
2	1.805600000 GH	Iz 37.33	Average	-16.67
2	2.608000000 GH	Iz 37.45	Average	-16.55
2	3.525600000 GH	Iz 47.86	Average	-6.14
1	3.592400000 GH	Iz 58.28	Max Peak	-15.72
2	3.610800000 GH	Iz 37.99	Average	-16.01
1	4.450800000 GH	z 48.31	Max Peak	-25.69
2	4.514000000 GH	Iz 37.91	Average	-16.09
2	5.175200000 GH	Iz 38.29	Average	-15.71
2	7.125200000 GH	Iz 42.32	Average	-11.68
1	9.968400000 GH	Iz 57.49	Max Peak	-16.51
2	9.994400000 GH	Iz 46.95	Average	-7.05







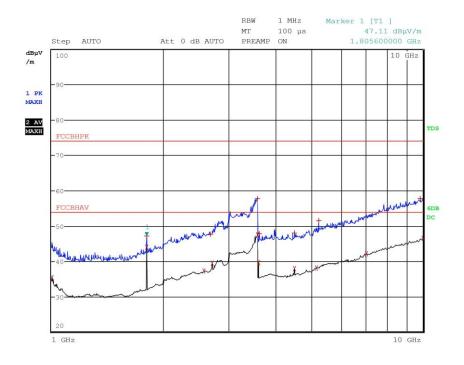
G16152058

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152058









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152058

Test Spec

Final Measurement

Trace	Frequency	1	Level (dBµV/m)	Detector	Delta Limit/dB
2	1.004800000	GHz	35.46	Average	-18.54
2	1.805600000	GHz	43.91	Average	-10.09
1	1.805600000	GHz	47.11	Max Peak	-26.89
2	2.570400000	GHz	37.21	Average	-16.79
1	2.673600000	GHz	47.71	Max Peak	-26.29
2	2.708000000	GHz	39.37	Average	-14.63
2	3.580400000	GHz	47.49	Average	-6.51
1	3.594000000	GHz	57.79	Max Peak	-16.21
2	3.610800000	GHz	39.52	Average	-14.48
1	3.619600000	GHz	47.89	Max Peak	-26.11
1	4.513600000	GHz	47.95	Max Peak	-26.05
2	4.514000000	GHz	37.97	Average	-16.03
2	5.174000000	GHz	38.10	Average	-15.90
1	5.246000000	GHz	51.48	Max Peak	-22.52
2	7.053600000	GHz	42.10	Average	-11.90
1	9.822000000	GHz	57.77	Max Peak	-16.23
2	9.992400000	GHz	46.39	Average	-7.61







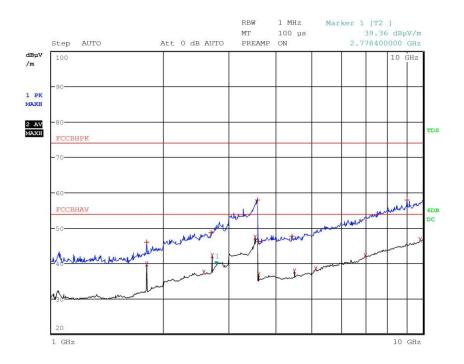
G16152059

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152059









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152059

Test Spec

Final Measurement

Trace	Frequency	1	Level (dBµV/m)	Detector	Delta Limit/dB
2	1.805600000	GHz	39.69	Average	-14.31
1	1.805600000	GHz	45.96	Max Peak	-28.04
2	2.570000000	GHz	37.36	Average	-16.64
1	2.688400000	GHz	48.70	Max Peak	-25.30
2	2.708400000	GHz	42.04	Average	-11.96
2	3.525600000	GHz	47.28	Average	-6.72
1	3.591600000	GHz	57.94	Max Peak	-16.06
2	3.610800000	GHz	36.81	Average	-17.19
1	3.610800000	GHz	46.07	Max Peak	-27.93
1	4.433600000	GHz	47.69	Max Peak	-26.31
2	4.514000000	GHz	37.81	Average	-16.19
2	5.148400000	GHz	38.41	Average	-15.59
2	6.978000000	GHz	42.15	Average	-11.85
1	9.058000000	GHz	57.85	Max Peak	-16.15
2	9.826000000	GHz	46.68	Average	-7.32







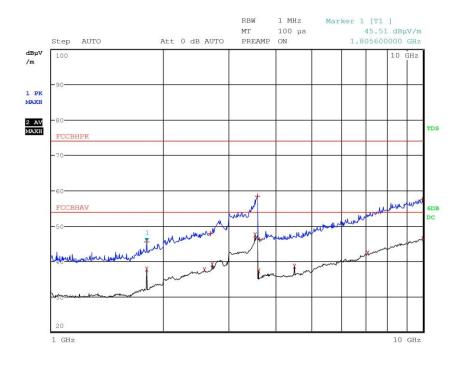
G16152060

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152060









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152060

Test Spec

Final Measurement

Trace	Frequency		Level (dBµV/m)	Detector	Delta Limit/dB
2	1.805600000	GHz	37.81	Average	-16.19
1	1.805600000	SHz	45.51	Max Peak	-28.49
2	2.584800000	SHz	37.58	Average	-16.42
1	2.673200000	SHz	47.75	Max Peak	-26.25
2	2.708400000	SHz	39.08	Average	-14.92
2	3.525600000 0	SHz	47.47	Average	-6.53
1	3.587200000	SHz	58.42	Max Peak	-15.58
2	3.611200000	SHz	37.19	Average	-16.81
1	3.620000000	GHz	46.09	Max Peak	-27.91
2	4.513600000	GHz	38.62	Average	-15.38
2	7.090400000	SHz	42.33	Average	-11.67
1	9.972400000	SHz	57.47	Max Peak	-16.53
2	9.999600000	GHz	46.27	Average	-7.73







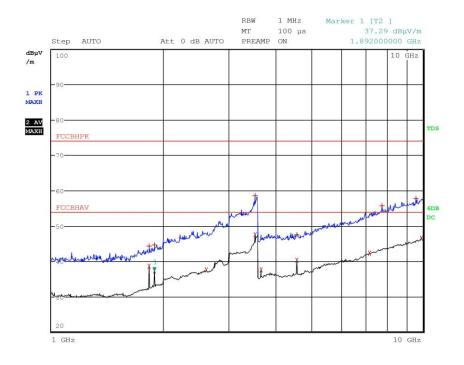
G16152061

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152061









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152061

Test Spec

Final Measurement

Trace	Frequency	Level (d	IBμV/m) Detector	Delta Limit/dB
2	1.829600000 G	Hz 38.5	3 Average	-15.47
1	1.829600000 G	Hz 44.3	Max Peak	-29.67
2	1.892000000 G	Hz 37.2	9 Average	-16.71
1	1.895200000 G	Hz 44.6	Max Peak	-29.40
2	2.606400000 G	Hz 37.5	3 Average	-16.47
1	3.525600000 G	Hz 58.5	4 Max Peak	-15.46
2	3.525600000 G	Hz 47.5	3 Average	-6.47
2	3.658800000 G	Hz 37.5	5 Average	-16.45
2	4.573600000 G	Hz 40.2) Average	-13.80
1	4.574000000 G	Hz 47.5	6 Max Peak	-26.44
2	7.168800000 G	Hz 42.2	1 Average	-11.79
1	7.750400000 G	Hz 55.6	4 Max Peak	-18.36
1	9.568400000 G	Hz 57.7	2 Max Peak	-16.28
2	9.897200000 G	Hz 46.4	3 Average	-7.57







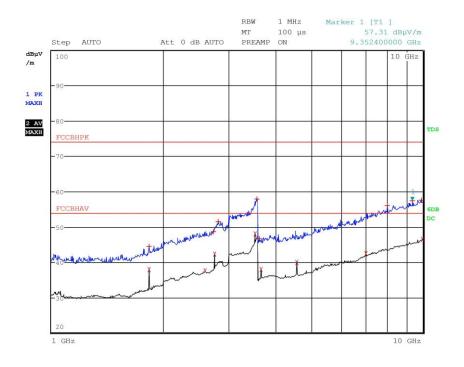
G16152062

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152062









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152062

Test Spec

Final Measurement

Trace	Frequency	Level (dBµV	/m) Detector	Delta Limit/dB
2	1.829600000 G	Hz 37.93	Average	-16.07
1	1.829600000 G	Hz 44.37	Max Peak	-29.63
2	2.586800000 GI	Hz 37.52	Average	-16.48
1	2.728800000 GI	Hz 48.71	Max Peak	-25.29
2	2.744400000 GI	Hz 42.32	Average	-11.68
1	2.814400000 GH	Hz 51.47	Max Peak	-22.53
2	3.525600000 GI	Hz 47.92	Average	-6.08
1	3.577200000 GI	Hz 57.92	Max Peak	-16.08
1	3.627600000 GI	Hz 46.71	Max Peak	-27.29
2	3.658800000 GI	Hz 37.91	Average	-16.09
2	4.574000000 GI	Hz 39.86	Average	-14.14
2	7.020000000 GI	Hz 42.38	Average	-11.62
1	8.004400000 GI	Hz 56.09	Max Peak	-17.91
1	9.352400000 G	Hz 57.31	Max Peak	-16.69
1	9.906800000 GI	Hz 57.63	Max Peak	-16.37
2	9.966400000 GI	Hz 46.46	Average	-7.54







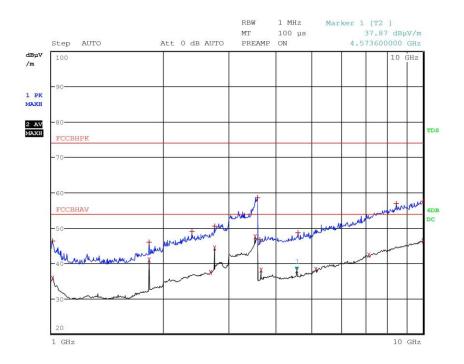
G16152063

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152063









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152063

Test Spec

Final Measurement

Trace	Frequency		Level (dBµV	/m) Detector	Delta Limit/dB
2	1.006800000	GHz	35.73	Average	-18.27
1	1.007600000	GHz	46.39	Max Peak	-27.61
2	1.829600000	GHz	40.91	Average	-13.09
1	1.829600000	GHz	45.95	Max Peak	-28.05
1	2.390800000	GHz	48.92	Max Peak	-25.08
2	2.674800000	GHz	37.38	Average	-16.62
1	2.744400000	GHz	50.46	Max Peak	-23.54
2	2.744400000	GHz	44.36	Average	-9.64
2	3.525600000	GHz	47.47	Average	-6.53
1	3.589600000	GHz	58.55	Max Peak	-15.45
1	3.634000000	GHz	46.67	Max Peak	-27.33
2	3.658800000	GHz	37.99	Average	-16.01
2	4.573600000	GHz	37.87	Average	-16.13
1	4.603200000	GHz	48.62	Max Peak	-25.38
2	5.145200000	GHz	38.23	Average	-15.77
2	7.158400000	GHz	42.19	Average	-11.81
1	8.484800000	GHz	56.92	Max Peak	-17.08
1	9.990800000	GHz	57.53	Max Peak	-16.47
2	9.998400000	GHz	46.37	Average	-7.63







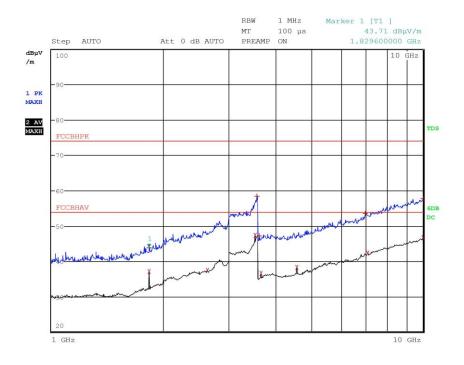
G16152064

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152064









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152064

Test Spec

Final Measurement

Trace	Frequency	1	Level (dBµV/	m) Detector	Delta Limit/dB
2	1.829600000	GHz	37.14	Average	-16.86
1	1.829600000	GHz	43.71	Max Peak	-30.29
2	2.629200000	GHz	37.47	Average	-16.53
2	3.525600000	GHz	47.33	Average	-6.67
1	3.575600000	GHz	58.38	Max Peak	-15.62
1	3.619200000	GHz	47.14	Max Peak	-26.86
2	3.659200000	GHz	36.60	Average	-17.40
2	4.573600000	GHz	38.20	Average	-15.80
1	6.995600000	GHz	53.51	Max Peak	-20.49
2	7.105200000	GHz	42.19	Average	-11.81
1	9.997600000	GHz	57.78	Max Peak	-16.22
2	10.000000000	GHz	46.69	Average	-7.31







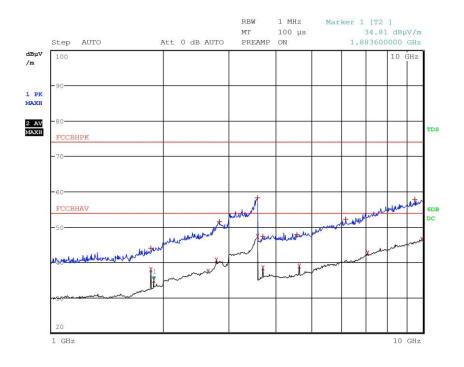
G16152065

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152065









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152065

Test Spec

Final Measurement

Trace	Frequency		Level (dBµV/m)	Detector	Delta Limit/dB
1	1.851600000	GHz	43.99	Max Peak	-30.01
2	1.854400000	SHz	37.85	Average	-16.15
2	1.883600000	SHz	34.81	Average	-19.19
2	2.635600000	GHz	37.43	Average	-16.57
2	2.782000000	SHz	40.51	Average	-13.49
1	2.827600000	GHz	51.51	Max Peak	-22.49
1	3.590000000	SHz	58.24	Max Peak	-15.76
2	3.592000000	GHz	47.27	Average	-6.73
2	3.709200000	GHz	38.36	Average	-15.64
1	3.709200000	GHz	47.36	Max Peak	-26.64
1	4.579200000	SHz	47.81	Max Peak	-26.19
2	4.636400000	GHz	38.83	Average	-15.17
1	6.178000000	GHz	52.26	Max Peak	-21.74
2	7.088800000	GHz	42.62	Average	-11.38
1	9.509200000	GHz	57.79	Max Peak	-16.21
2	9.925200000	SHz	46.50	Average	-7.50







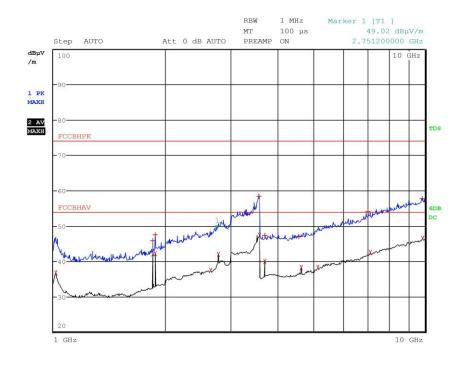
G16152066

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152066









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152066

Test Spec

Final Measurement

Trace	Frequency		Level (dBµV/m)	Detector	Delta Limit/dB
2	1.013600000	GHz	36.80	Average	-17.20
2	1.854400000	GHz	42.13	Average	-11.87
1	1.854400000	GHz	45.87	Max Peak	-28.13
2	1.882000000	GHz	42.05	Average	-11.95
1	1.882000000	GHz	47.44	Max Peak	-26.56
2	2.644000000	GHz	37.32	Average	-16.68
2	2.781600000	GHz	41.97	Average	-12.03
1	3.568000000	GHz	58.35	Max Peak	-15.65
2	3.594800000	GHz	47.35	Average	-6.65
2	3.708800000	GHz	39.91	Average	-14.09
1	3.709200000	GHz	47.26	Max Peak	-26.74
1	4.571600000	GHz	46.99	Max Peak	-27.01
2	4.636400000	GHz	38.24	Average	-15.76
2	5.142400000	GHz	38.25	Average	-15.75
1	7.018400000	GHz	54.07	Max Peak	-19.93
2	7.127200000	GHz	42.44	Average	-11.56
1	9.807200000	GHz	57.80	Max Peak	-16.20
2	9.851200000	GHz	46.40	Average	-7.60







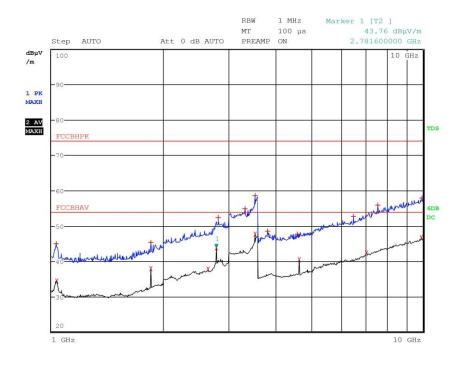
G16152067

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152067









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152067

Test Spec

Final Measurement

Trace	Frequency		Level (dBµV/m)	Detector	Delta Limit/dB
1	1.028000000	GHz	44.97	Max Peak	-29.03
2	1.034800000	GHz	34.45	Average	-19.55
2	1.854400000	GHz	37.88	Average	-16.12
1	1.854400000	GHz	45.28	Max Peak	-28.72
2	2.636800000	GHz	37.74	Average	-16.26
2	2.781600000	GHz	43.76	Average	-10.24
1	2.806800000	GHz	52.36	Max Peak	-21.64
1	3.320800000	GHz	54.79	Max Peak	-19.21
1	3.525600000	GHz	58.50	Max Peak	-15.50
2	3.525600000	GHz	47.61	Average	-6.39
1	3.818400000	GHz	48.56	Max Peak	-25.44
1	4.586400000	GHz	47.69	Max Peak	-26.31
2	4.636400000	GHz	40.49	Average	-13.51
1	6.498400000	GHz	52.68	Max Peak	-21.32
2	7.050000000	GHz	42.26	Average	-11.74
1	7.548400000	GHz	55.82	Max Peak	-18.18
2	9.904800000	GHz	46.68	Average	-7.32
1	9.931200000	GHz	57.92	Max Peak	-16.08







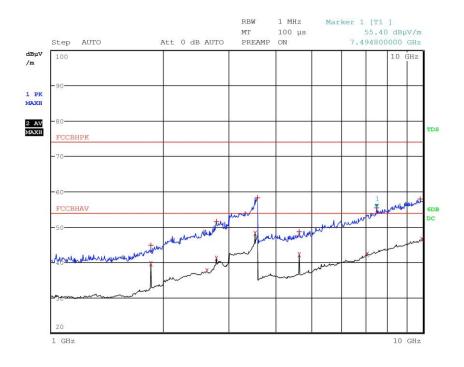
G16152068

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152068









Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152068

Test Spec

Final Measurement

Meas Time: 1 s Margin: 20 dB Subranges: 13

Trace	Frequency		Level (dBµV/m)	Detector	Delta Limit/dB
2	1.854400000	GHz	39.56	Average	-14.44
1	1.854400000	GHz	44.85	Max Peak	-29.15
2	2.615200000	GHz	37.52	Average	-16.48
2	2.781600000	GHz	41.14	Average	-12.86
1	2.781600000	GHz	51.50	Max Peak	-22.50
2	3.525600000	GHz	48.13	Average	-5.87
1	3.581200000	GHz	58.23	Max Peak	-15.77
1	4.636400000	GHz	48.66	Max Peak	-25.34
2	4.636400000	GHz	42.10	Average	-11.90
2	7.056800000	GHz	42.31	Average	-11.69
1	7.494800000	GHz	55.40	Max Peak	-18.60
1	9.822000000	GHz	57.90	Max Peak	-16.10
2	9.940800000	GHz	46.49	Average	-7.51

Result: The requirements are met







11.3 Band edge

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test configuration and test method

Test site: Laboratory

Auxiliary equipment: See clause 4 of this test report

Test equipment used

CMC \$108, CMC \$136, CMC \$227 Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

Environmental conditions

Temperature	Atmospheric pressure	Relative humidity	
(°C)	(kPa)	(%)	
22	100	45	

Acceptance limits: operation within the band 902 – 928 MHz

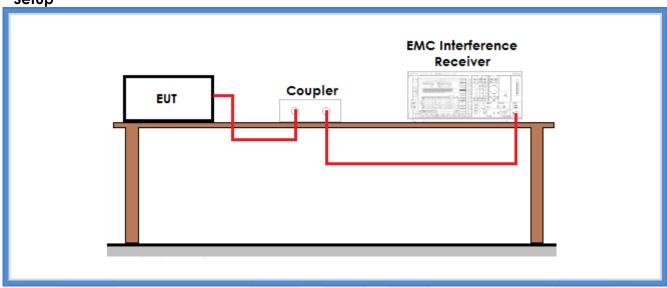
Test report R16152001 Rev. 1.0 Order M161520 page 69 of 87







Setup



Result

Frequency (MHz)	Graph(s) – Hopping	Results						
902,75	G16152007	F _L : 902,605577 MHz	Complies					
927,25	G16152006	F _H : 927,389423 MHz	Complies					
Remarks:								

Frequency (MHz)	Graph(s) – No hopping	Results		
902,75	G16152004	F _L : 902,605577 MHz	Complies	
927,25	G16152005	F _H : 927,389423 MHz	Complies	
Remarks:				

Test report R16152001 Rev. 1.0 Order M161520 page 70 of 87







Graphs

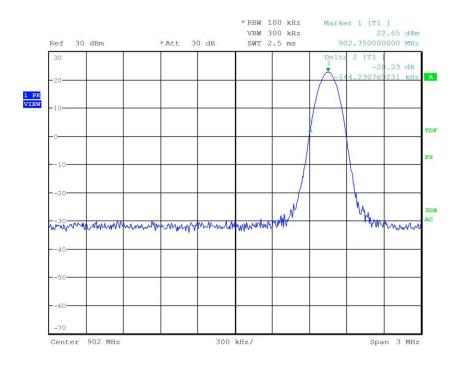
G16152004

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152004









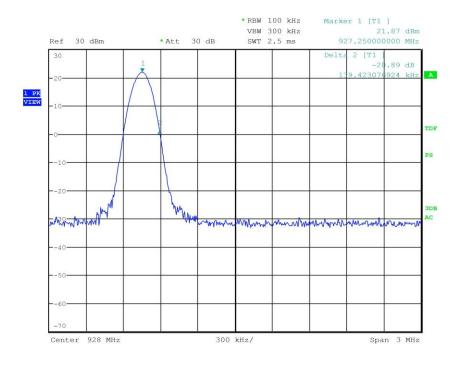
G16152005

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152005









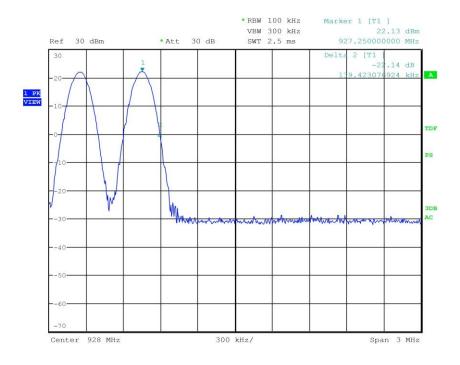
G16152006

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152006









G16152007

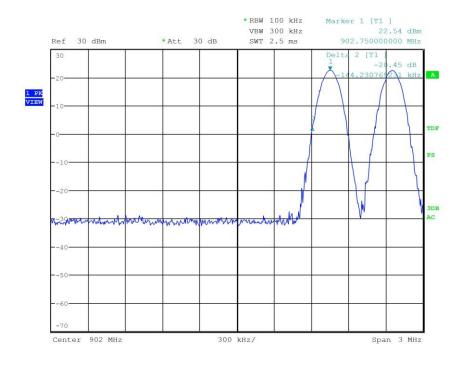
Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152007

Test Spec



Result: The requirements are met







11.4 Peak Output Power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test configuration and test method

Test site: Laboratory

Auxiliary equipment: See clause 4 of this test report

Test equipment used

CMC \$108, CMC \$136, CMC \$164 Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Antenna connector

Environmental conditions

Temperature	Atmospheric pressure	Relative humidity	
(°C)	(kPa)	(%)	
20	100	45	

Acceptance limits:

For frequency hopping systems operating in the 2400–2483,5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483,5 MHz band: 0,125 watts. For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0,25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels.

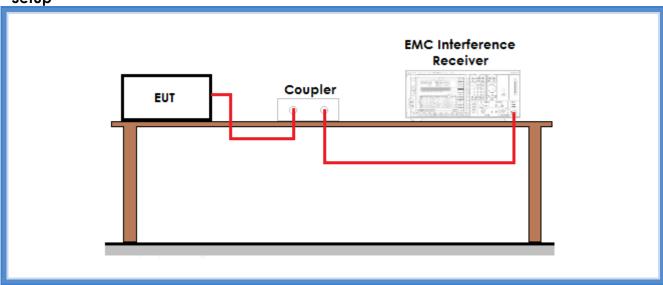
Test report R16152001 Rev. 1.0 Order M161520 page 75 of 87







Setup



Result

Frequency	Frequency Graphs		Peak Output	Calculated	
(MHz)		Output Power	Power	radiated level	
·		(dBm)	(mW)	(dBµV/m)	
902,75	G16152001	22,18	165,20	118,11	
914,75	G16152002	21,96	157,04	117,89	
927,25	G16152003	21,67	146,89	117,60	
Remarks:					

Remarks

 $E = \sqrt{30xPxG}/d$

Where:

E = the measured maximum fundamental field strength in V/m

G = the numeric gain of the transmitting antenna: 1,175 (0,7 dBi)

d = the distance in meters from which the field strength was measured (3 m)

P = the power in watts

Test report R16152001 Rev. 1.0 Order M161520 page 76 of 87







Graphs

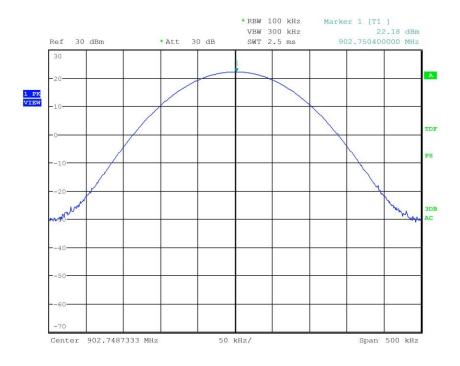
G16152001

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152001









G16152002

Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152002









G16152003

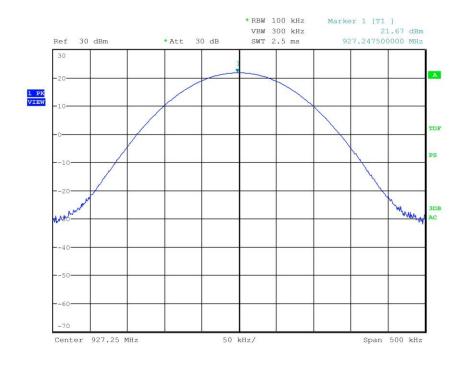
Meas Type Emission

Equipment under Test

Manufacturer OP Condition

Operator Bertezzolo 16152003

Test Spec



Result: The requirements are met







11.5 Spurious Emission

Test set-up and execution

FCC Rules and Regulation; Titles 47 Part 15.209

- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test specification

Port: Enclosure

Antenna polarization: Horizontal (H) - Vertical (V)

EUT – Antenna distance: 3 m

Detector AV + Peak

Environmental conditions

Temperature	Atmospheric pressure	Relative humidity		
(°C)	(kPa)	(%)		
22	100	45		

Acceptance limits

Acceptance mine							
Acceptance limits for emissions in restricted frequency bands							
Frequency AV limits Peak limits							
(MHz)	[dB(µV/m)]	[dB(µV/m)]					
> 1000	54	74					

Test configuration and test method

Test site:

Semi-anechoic chamber

Auxiliary equipment:

See clause 4 of this test report

Test equipment used

CMC \$108, CMC \$136, CMC \$164 Measurement uncertainty: See clause 7 of this test report

Test report R16152001 Rev. 1.0 Order M161520 page 80 of 87







The restricted frequency bands are listed in the following table

MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 - 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775	73 – 74,6	1645,5 – 1646,5	9,3 – 9,5
6,215 – 6,218	74,8 – 75,2	1660 – 1710	10,6 – 12,7
6,26775 – 6,26825	108 – 121,94	1718,8 – 1722,2	13,25 – 13,4
6,31175 – 6,31225	123 – 138	2200 – 2300	14,47 – 14,5
8,291 – 8,294	1 <mark>49,9</mark> – 150,05	2310 – 2390	15,35 – 16,2
8,362 – 8,366	156,52475 – 156,52525	2483,5 – 2500	17,7 – 21,4
8,37625 - 8,38675	156,7 – 156,9	2690 – 2900	22,01 – 23,12
8,41425 - 8,41475	162,0125 – 167,17	3260 - 3267	23,6 - 24,0
12,29 – 12,293	167,72 – 173,2	3332 – 3339	31,2 – 31,8
12,51975 – 12,52025	240 – 285	3345,8 - 3358	36,43 – 36,5
12,57675 – 12,57725	322 – 335,4	3600 – 4400	Above 38,6
13,36 – 13,41			

Acceptance limits for emissions in non-restricted frequency bands

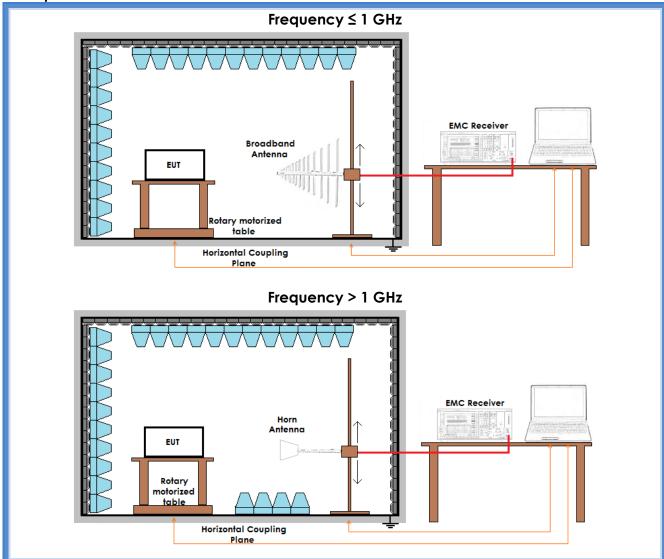
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.







Setup







Result - AV detector

	QUAD Circular Polarized Quadrifilar Antenna							
Harmonic	Lowest	channel	Medium	channel	Highest channel		Results	
	Level	Limits	Level	Limits	Level	Limits		
	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)		
II	39,69	54,00	38,53	54,00	39,56	54,00	Complies	
III	42,04	54,00	42,32	54,00	43,76	54,00	Complies	
IV	37,19	54,00	37,91	54,00	More than 20 dB below limit	54,00	Complies	
V	38,62	54,00	40,20	54,00	42,10	54,00	Complies	
VI	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies	
VII	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies	
VIII	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies	
IX	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies	
Х	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies	

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. The emission values marked with * have been detected in non-restricted frequency bands. In these bands the limits have been always considered $54 \, \mathrm{dB}\mu\mathrm{V/m}$ as worst case.





External dedicated antenna							
Harmonic	Lowest	channel	Medium	channel	Highest channel		Results
	Level	Limits	Level	Limits	Level	Limits	
	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	
II	43,91	54,00	40,91	54,00	42,13	54,00	Complies
III	39,37	54,00	44,36	54,00	41,97	54,00	Complies
IV	39,52	54,00	37,99	54,00	39,91	54,00	Complies
V	37,97	54,00	38,20	54,00	38,83	54,00	Complies
VI	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies
VII	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies
VIII	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies
IX	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies
Х	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	More than 20 dB below limit	54,00	Complies

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. The emission values marked with * have been detected in non-restricted frequency bands. In these bands the limits have been always considered $54 \, \mathrm{dB}\mu\mathrm{V/m}$ as worst case.





Result – Peak detector

	QUAD Circular Polarized Quadrifilar Antenna						
Harmonic	Lowest	channel	Medium	channel	Highest channel		Results
	Level	Limits	Level	Limits	Level	Limits	
	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	
II	45,96	74,00	44,37	74,00	45,28	74,00	Complies
III	48,70	74,00	48,71	74,00	52,36	74,00	Complies
IV	46,09	74,00	46,71	74,00	48,56	74,00	Complies
٧	More than	74,00	47,56	74,00	48,66	74,00	Complies
	20 dB below limit						
VI	More than 20 dB below	74,00	More than 20 dB below	74,00	More than 20 dB below	74,00	Complies
	limit		limit		limit		
VII	More than	74,00	More than	74,00	More than	74,00	Complies
/	20 dB below limit		20 dB below limit		20 dB below limit		
VIII	More than	74,00	More than	74,00	55,82	74,00	Complies
	20 dB below limit		20 dB below limit				
IX	More than	74,00	More than	74,00	More than	74,00	Complies
	20 dB below limit		20 dB below limit		20 dB below limit		
Χ	57,85	74,00	More than	74,00	More than	74,00	Complies
^	37,03	74,00	20 dB below	74,00	20 dB below	74,00	Compiles
			limit		limit		

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. The emission values marked with * have been detected in non-restricted frequency bands. In these bands the limits have been always considered 74 dB μ V/m as worst case.





External dedicated antenna									
Harmonic	armonic Lowest channel		Medium channel		Highest channel		Results		
	Level	Limits	Level	Limits	Level	Limits			
	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)			
<u> </u>	47,11	74,00	45,95	74,00	45,87	74,00	Complies		
III	47,71	74,00	50,46	74,00	51,51	74,00	Complies		
IV	58,28	74,00	47,14	74,00	47,36	74,00	Complies		
V	48,31	74,00	48,62	74,00	47,81	74,00	Complies		
VI	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies		
VII	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies		
VIII	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies		
IX	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies		
X	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	More than 20 dB below limit	74,00	Complies		

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values. The emission values marked with * have been detected in non-restricted frequency bands. In these bands the limits have been always considered 74 dB μ V/m as worst case.

Result: The requirements are met





11.6 Maximum permissible exposure

Test set-up and execution

- FCC Rules and Regulation;
 Titles 47 Part 1.1310
- Internal procedure PM001
- See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test specification

Port: Antenna

Test configuration

Test site: Laboratory

Auxiliary equipment: See clause 4 of this test report

Test equipment used

CMC \$108, CMC \$136, CMC \$164 Measurement uncertainty: See clause 7 of this test report

Acceptance limits 0,60 mW/cm² max at 20 cm of distance

Result

Power Density	Maximum Output	Antenna Gain	Power Density at	Remarks					
Limit (mW/cm2)	Power	(G)	20 cm						
	(mW)		(mW/cm2)						
0,60	165,20	1,175	0,0386	QUAD Circular					
				Polarized					
				Quadrifilar					
				Antenna					
Remarks: Power Density = $(P \times G) / (4\pi R^2)$									

Result: The requirements are met

Test report R16152001 Rev. 1.0 Order M161520 page 87 of 87