



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL d μ V/m	DELTA LIMIT dB
2 Average	1.104 GHz	33.93	-20.04
1 Max Peak	1.1524 GHz	44.84	-29.13
1 Max Peak	1.4424 GHz	46.47	-27.50
2 Average	1.484 GHz	34.24	-19.73
1 Max Peak	1.7648 GHz	47.67	-26.30
2 Average	1.77 GHz	36.37	-17.60
1 Max Peak	1.8428 GHz	48.02	-25.95
2 Average	1.8428 GHz	38.59	-15.38
2 Average	2.1144 GHz	39.78	-14.19
1 Max Peak	2.1236 GHz	51.59	-22.38
1 Max Peak	2.6288 GHz	53.12	-20.85
2 Average	2.6928 GHz	41.93	-12.04
1 Max Peak	2.7516 GHz	56.12	-17.86
2 Average	2.7516 GHz	46.64	-7.33
1 Max Peak	3.248 GHz	58.70	-15.27
2 Average	3.2816 GHz	47.27	-6.70

Bertezolo 19132422



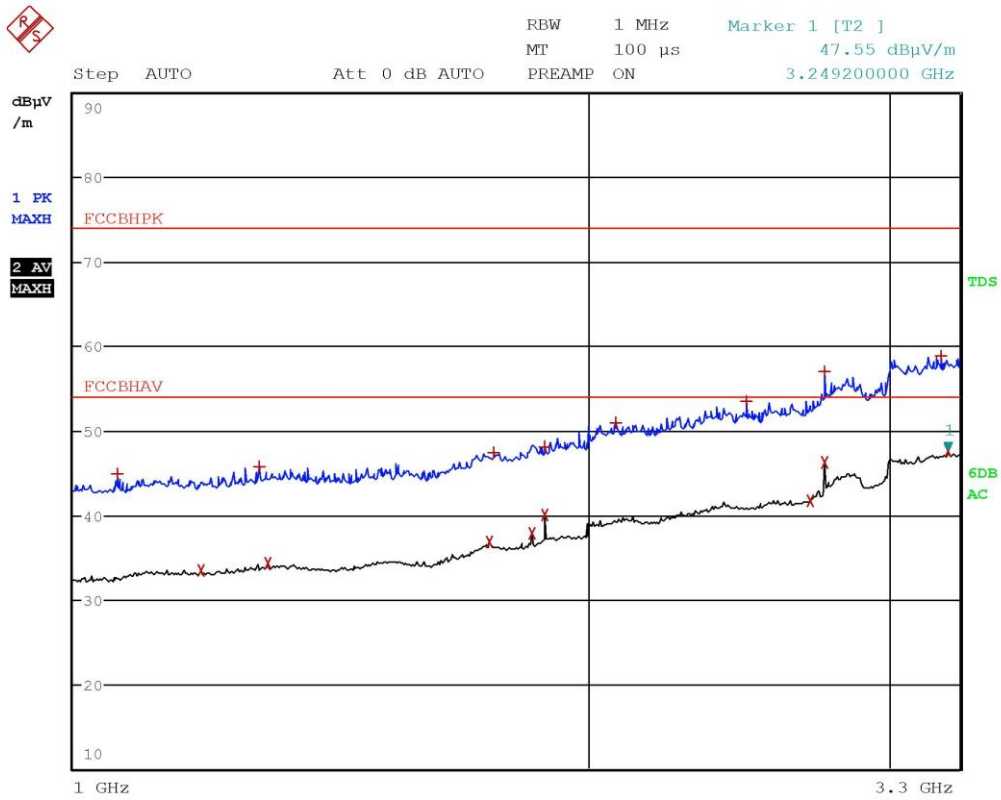
Bertezzo 19132423

CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL d μ V/m	DELTA LIMIT dB
2 Average	1.104 GHz	33.78	-20.19
1 Max Peak	1.1324 GHz	45.28	-28.69
1 Max Peak	1.2784 GHz	45.63	-28.34
2 Average	1.3084 GHz	34.24	-19.74
2 Average	1.7652 GHz	36.42	-17.55
1 Max Peak	1.8096 GHz	48.71	-25.26
1 Max Peak	2.0912 GHz	51.32	-22.65
2 Average	2.2156 GHz	39.76	-14.22
1 Max Peak	2.5548 GHz	53.12	-20.85
2 Average	2.6948 GHz	41.79	-12.18
2 Average	2.7516 GHz	46.80	-7.17
1 Max Peak	2.7516 GHz	56.82	-17.15
2 Average	3.2608 GHz	47.27	-6.70
1 Max Peak	3.3 GHz	59.12	-14.86

Bertezzo 19132423



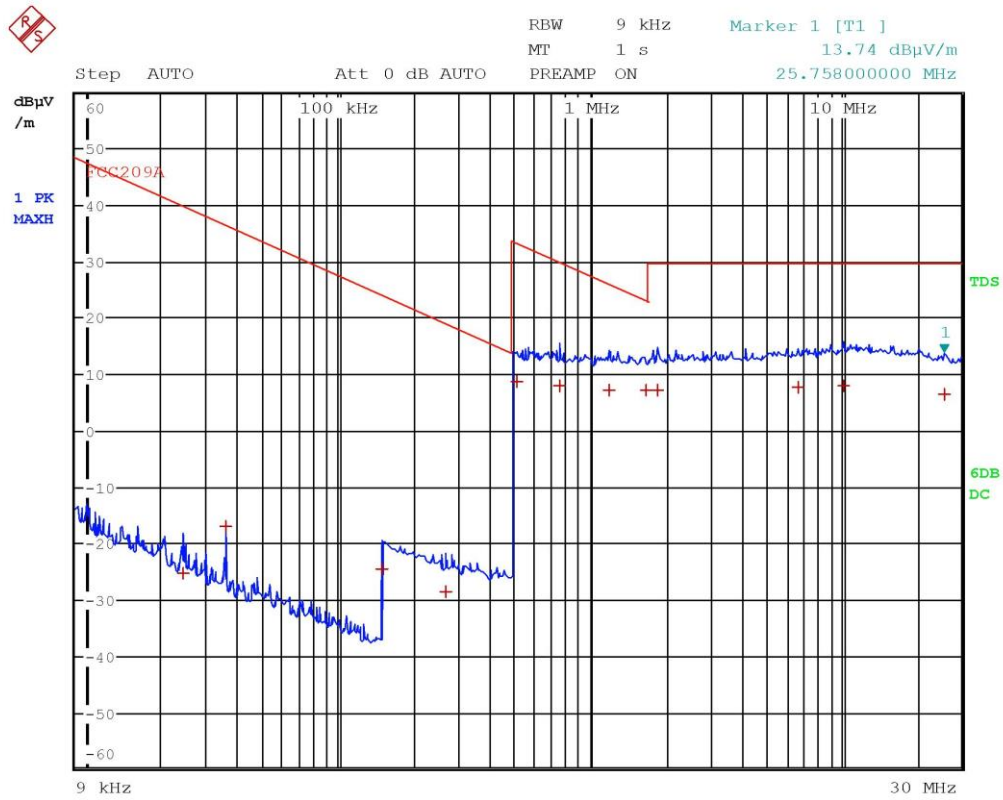
Bertezolo 19132424

CMC Centro Misure Compatibilità S.r.l.



EDIT PEAK LIST (Prescan Results)			
Trace1:	FCCBHPK		
Trace2:	FCCBHAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Max Peak	1.06 GHz	44.86	-29.11
2 Average	1.1884 GHz	33.45	-20.52
1 Max Peak	1.2856 GHz	45.73	-28.24
2 Average	1.2992 GHz	34.25	-19.72
2 Average	1.75 GHz	36.88	-17.09
1 Max Peak	1.7624 GHz	47.41	-26.56
2 Average	1.8556 GHz	37.82	-16.15
1 Max Peak	1.8884 GHz	48.05	-25.92
2 Average	1.8884 GHz	39.99	-13.98
1 Max Peak	2.0764 GHz	50.93	-23.04
1 Max Peak	2.4756 GHz	53.51	-20.46
2 Average	2.6972 GHz	41.73	-12.24
2 Average	2.7516 GHz	46.15	-7.82
1 Max Peak	2.7516 GHz	56.93	-17.04
1 Max Peak	3.2188 GHz	58.79	-15.18
2 Average	3.2492 GHz	47.55	-6.42

Bertezzo 19132424



Bertezzo 19132425

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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209A		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV/m	DELTA LIMIT dB
1 Quasi Peak	23.96 kHz	-25.38	-65.40
1 Quasi Peak	35.4 kHz	-17.04	-53.66
1 Quasi Peak	150 kHz	-24.54	-48.63
1 Quasi Peak	266 kHz	-28.51	-47.62
1 Quasi Peak	506 kHz	8.80	-24.71
1 Quasi Peak	750 kHz	7.92	-22.18
1 Quasi Peak	1.19 MHz	7.25	-18.83
1 Quasi Peak	1.678 MHz	7.21	-15.89
1 Quasi Peak	1.846 MHz	7.24	-22.29
1 Quasi Peak	6.766 MHz	7.60	-21.93
1 Quasi Peak	10.21 MHz	8.00	-21.53
1 Quasi Peak	25.758 MHz	6.41	-23.12

Bertezolo 19132425

Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.



11.3 20 dB bandwidth

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- ANSI C63.10 cl. 7.8.7
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

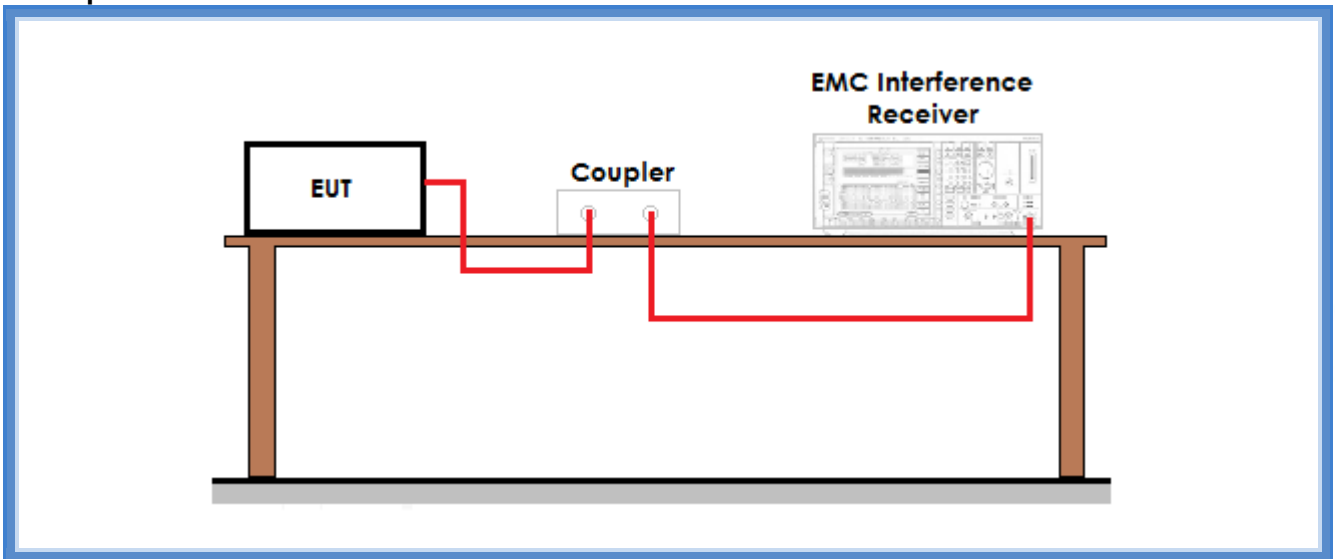
See FCC Part 15.247

Environmental conditions

<i>Temperature (°C)</i>	<i>Atmospheric pressure (kPa)</i>	<i>Relative humidity (%)</i>
22	100	45

Acceptance limits: The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz

Setup



Result

Frequency (MHz)	Graphs	20 dB bandwidth (kHz)	Maximum 20 dB bandwidth allowed (kHz)	Results
915,075	G19132433	23,40	500	Complies
921,425	G19132434	23,38	500	Complies
927,825	G19132435	23,58	500	Complies



Graphs

Bertezolo 19132433



Bertezolo 19132434





Bertezzo 19132435



Result: The requirements are met



11.4 Channel separation

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 9 b)
- ANSI C63.10 cl. 7.8.2
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

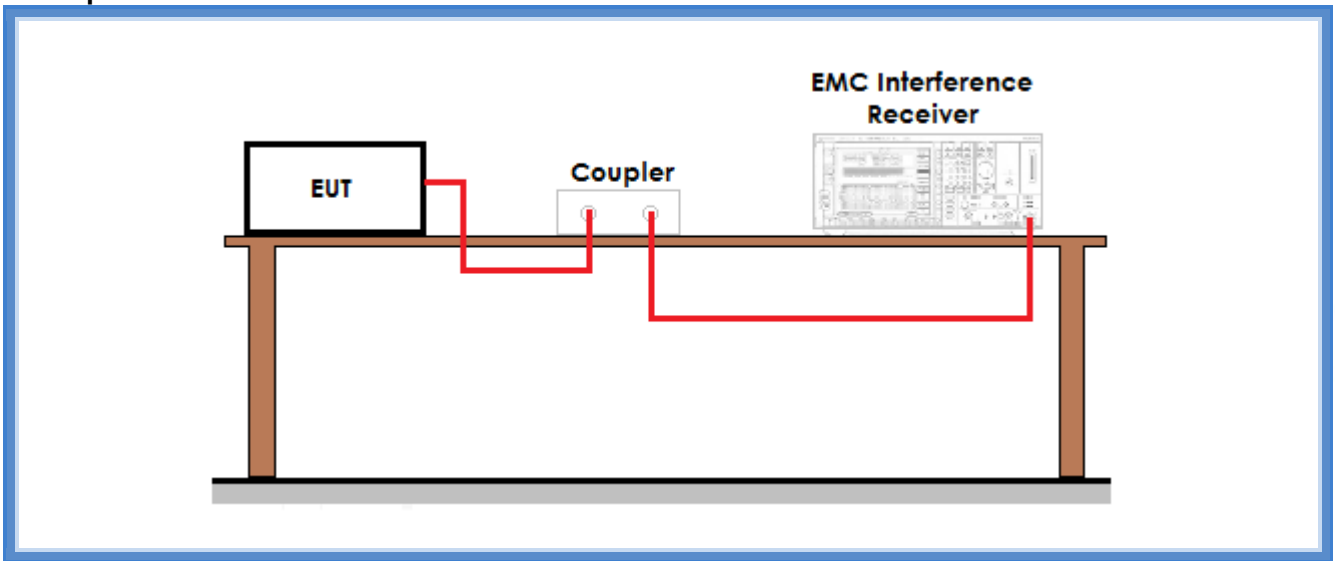
See FCC Part 15.247

Environmental conditions

<i>Temperature (°C)</i>	<i>Atmospheric pressure (kPa)</i>	<i>Relative humidity (%)</i>
20	100	42

Acceptance limits: frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483,5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

Setup



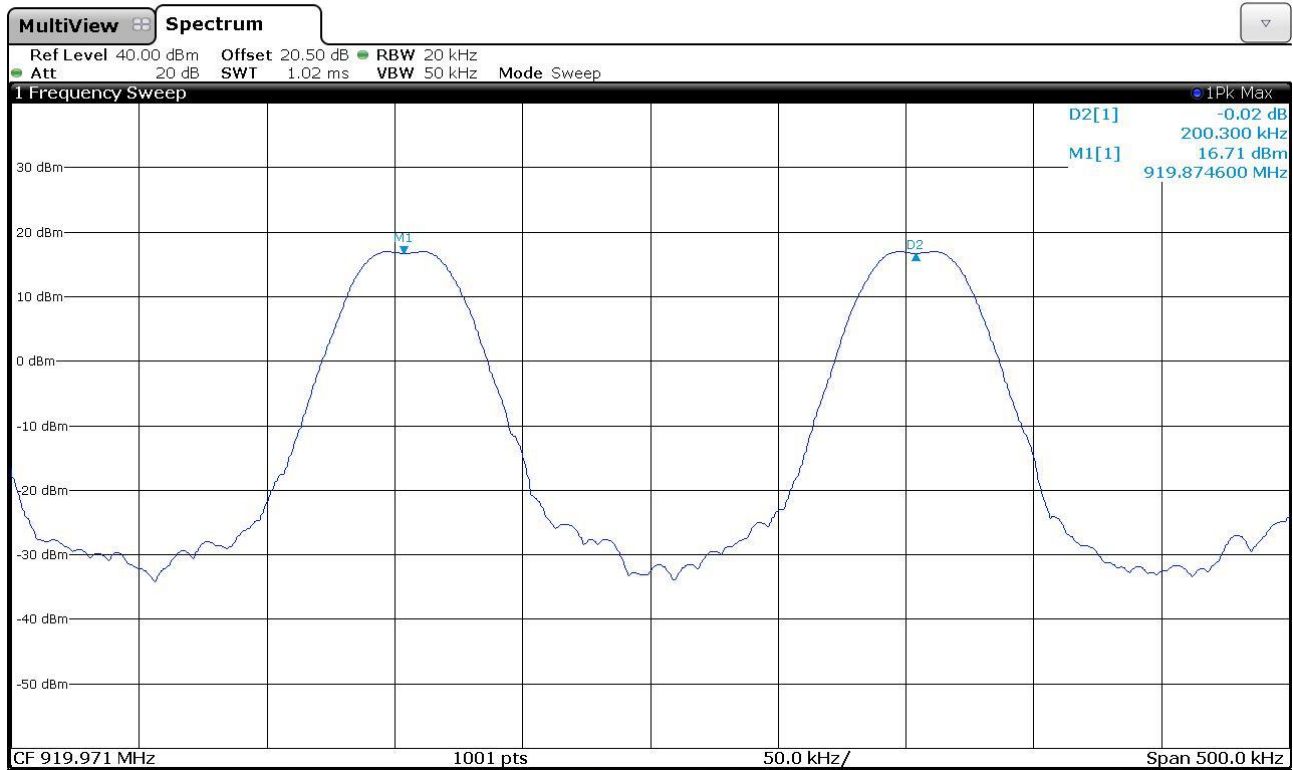
Result

Frequency band (MHz)	Graphs	Channel separation (kHz)	Minimum channel separation required (kHz)	Results
902 – 928	G19132443	200,3	25	Complies



Graphs

Gandini 19132443



Result: The requirements are met



11.5 Number of hopping channels

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 9 b)
- ANSI C63.10 cl. 7.8.3
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

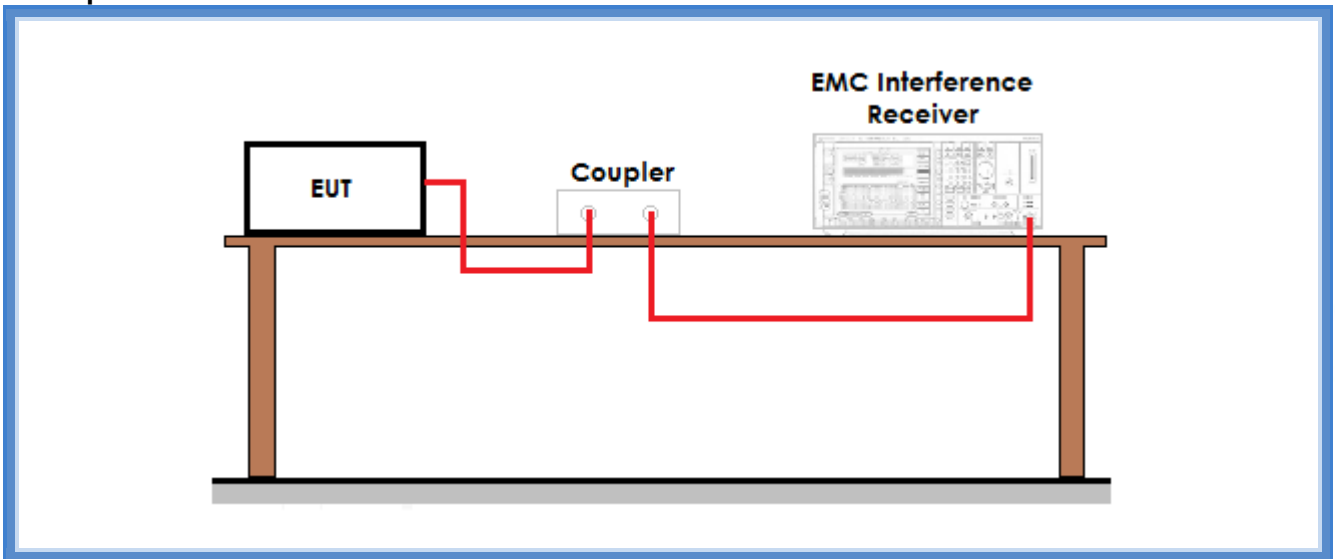
See FCC Part 15.247

Environmental conditions

<i>Temperature (°C)</i>	<i>Atmospheric pressure (kPa)</i>	<i>Relative humidity (%)</i>
20	100	42

Acceptance limits: for frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies. Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Setup



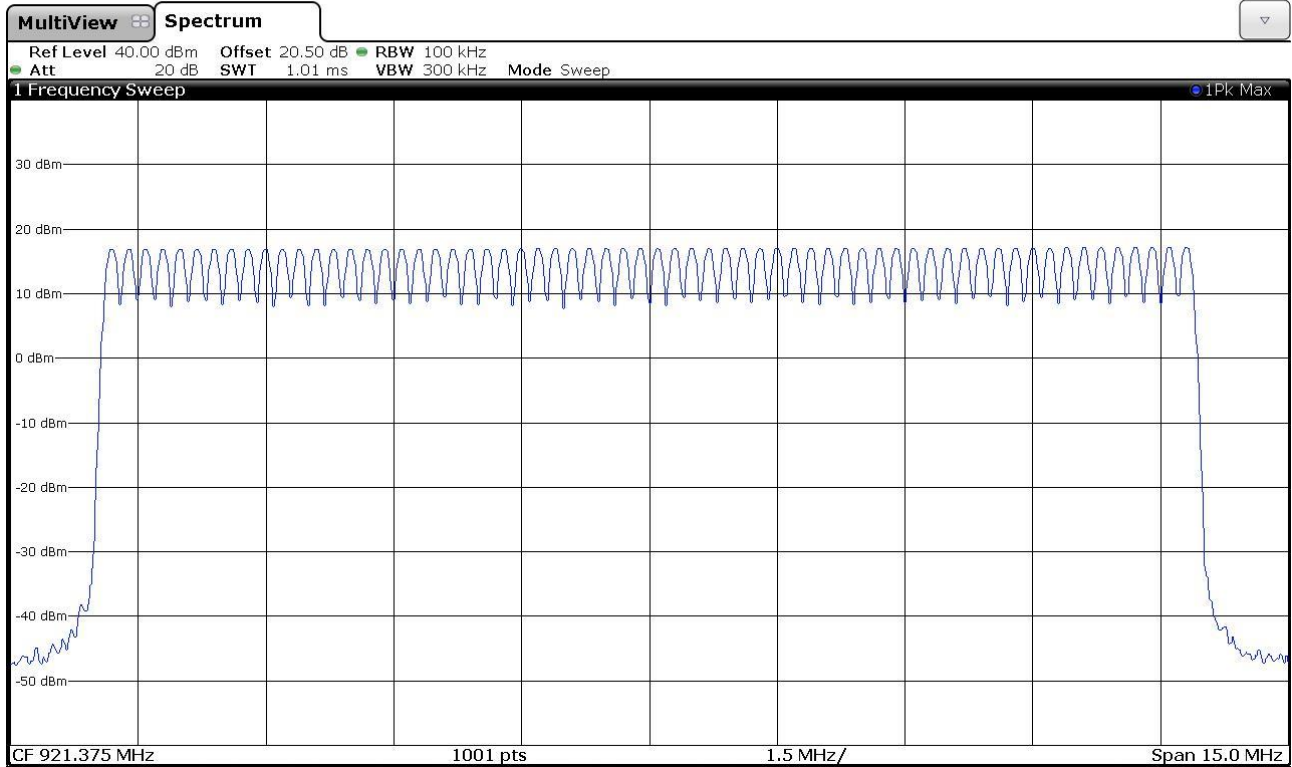
Result

Frequency band (MHz)	Graphs	Number of hopping channels	Minimum number of hopping channels required	Results
902 – 928	G19132442	64	50	Complies



Graphs

Gandini 19132442



Result: The requirements are met

CMC Centro Misure Compatibilità S.r.l.



11.6 Time of occupancy

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 9 b)
- ANSI C63.10 cl. 7.8.4
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

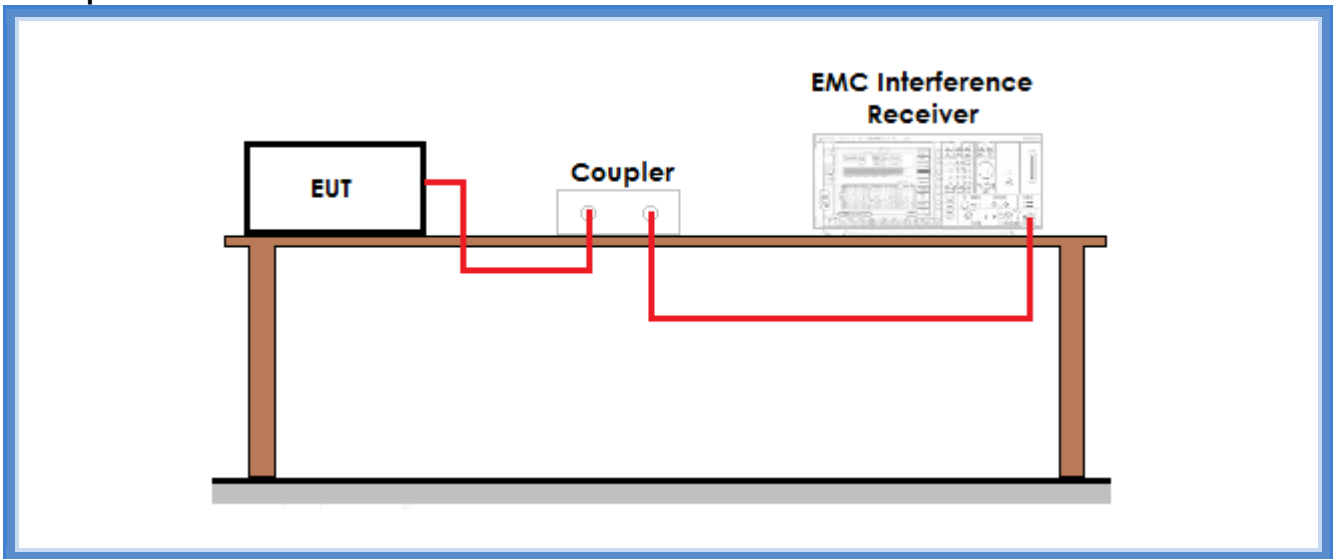
Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
22	100	42

Acceptance limits:

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 10 second period

Setup



Result

Frequency (MHz)	Graphs	Dwell time (ms)
917,475	G19132448	20,90

Frequency (MHz)	Graphs	Number of transmissions	Period
917,475	G19132450	8	20 s

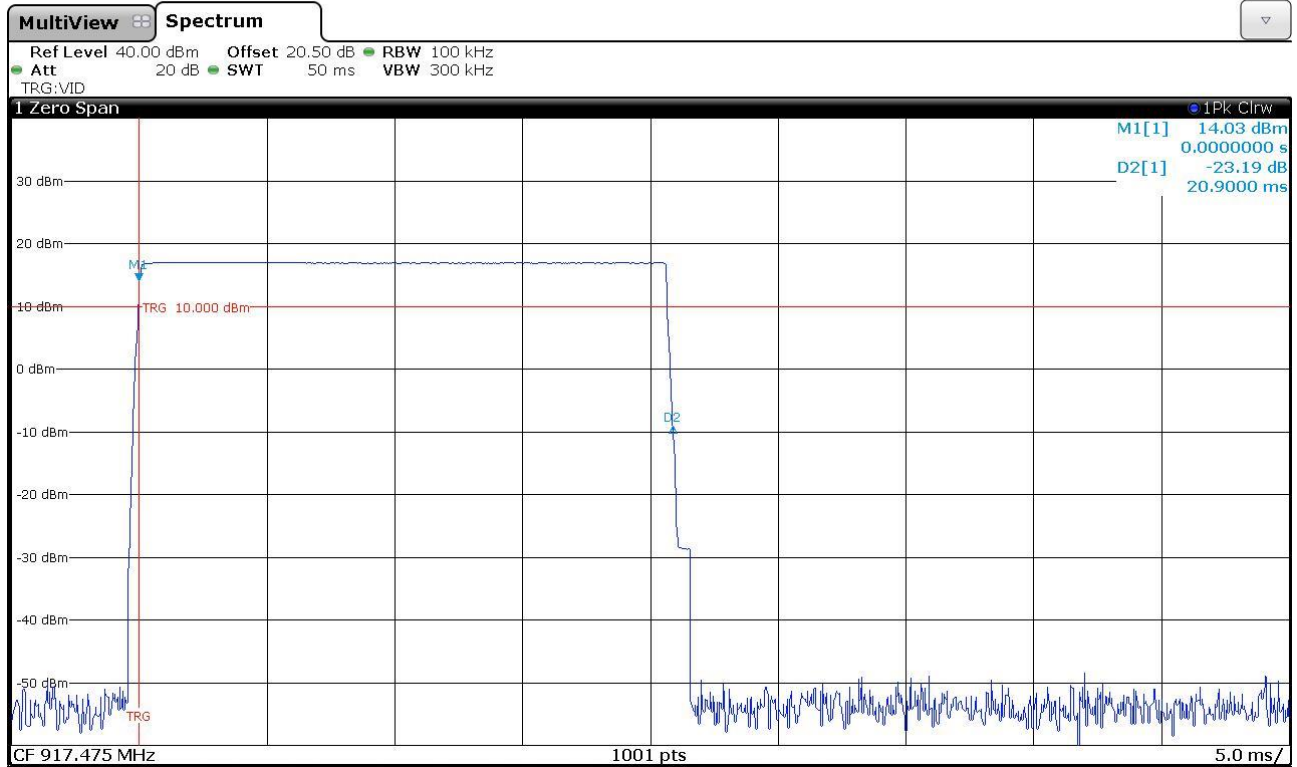
Remarks: only the highest peaks have been considered. The lowest peaks are due to the auxiliary receiver unit

Time of occupancy (Dwell time x Nr. transmissions)	Maximum allowed time of occupancy	Results
167,2 ms	400 ms	Complies



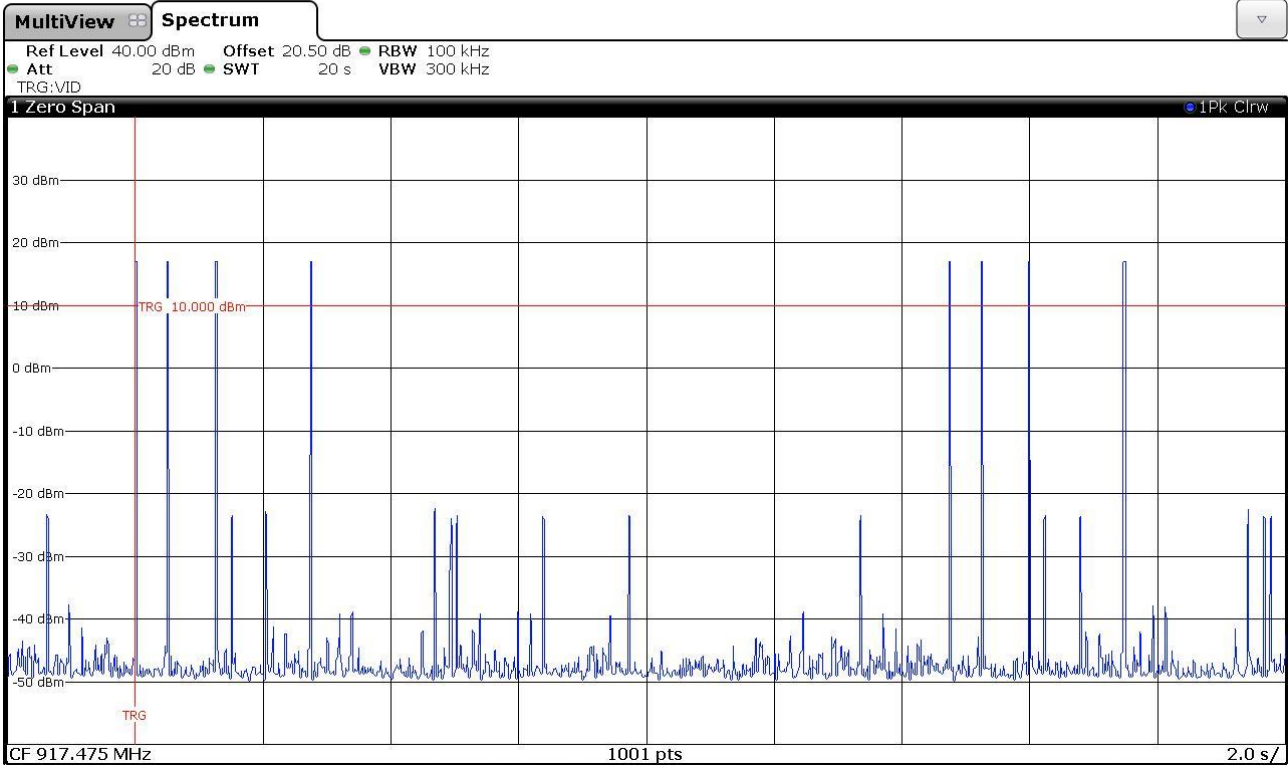
Graphs

Gandini 19132448





Gandini 19132450



Result: The requirements are met

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11.7 Band edge

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- ANSI C63.10 cl. 7.8.6
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

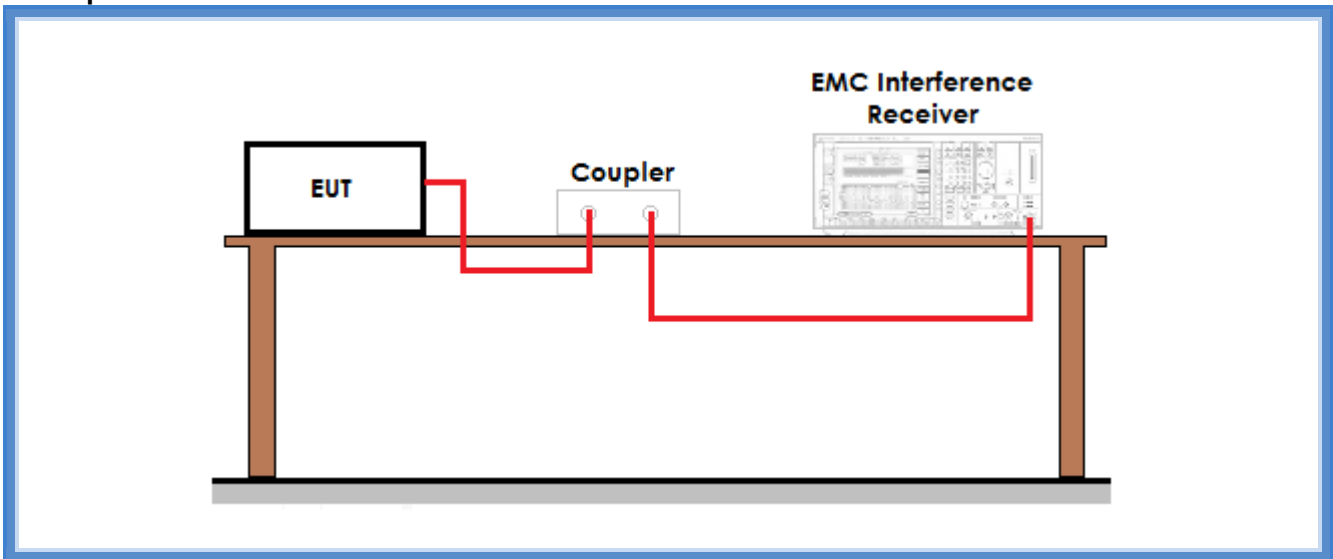
Environmental conditions

<i>Temperature (°C)</i>	<i>Atmospheric pressure (kPa)</i>	<i>Relative humidity (%)</i>
22	100	45

Acceptance limits: operation within the band 902 – 928 MHz

CMC Centro Misure Compatibilità S.r.l.

Setup



Result

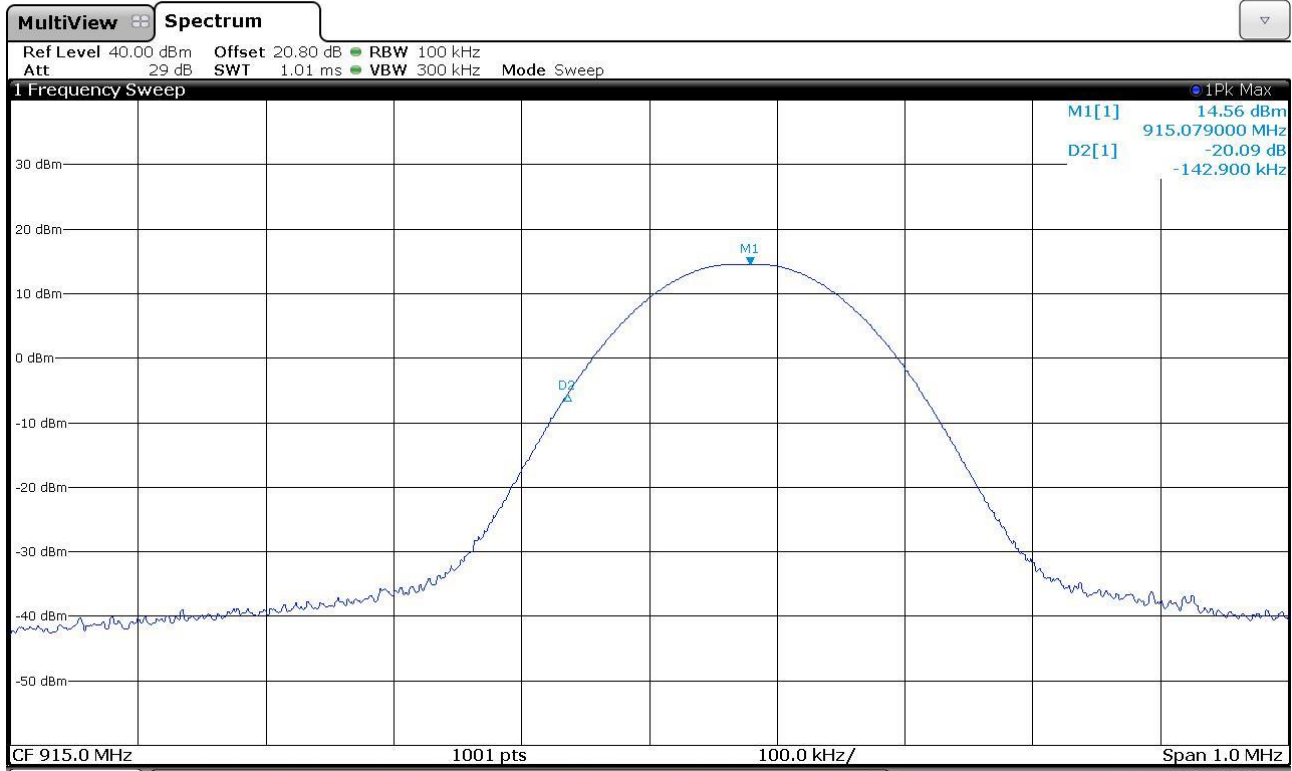
Frequency (MHz)	Graph(s) – Hopping	Results	
915,075	G19132444	F _L : 914,9421 MHz	Complies
	G19132445		
927,825	G19132446	F _H : 927,6786 MHz	Complies
	G19132447		

Frequency (MHz)	Graph(s) – No hopping	Results	
915,075	G19132439	F _L : 914,9361 MHz	Complies
	G19132440		
927,825	G19132441	F _H : 927,9651 MHz	Complies



Graphs

Bertezolo 19132439



Bertezolo 19132440



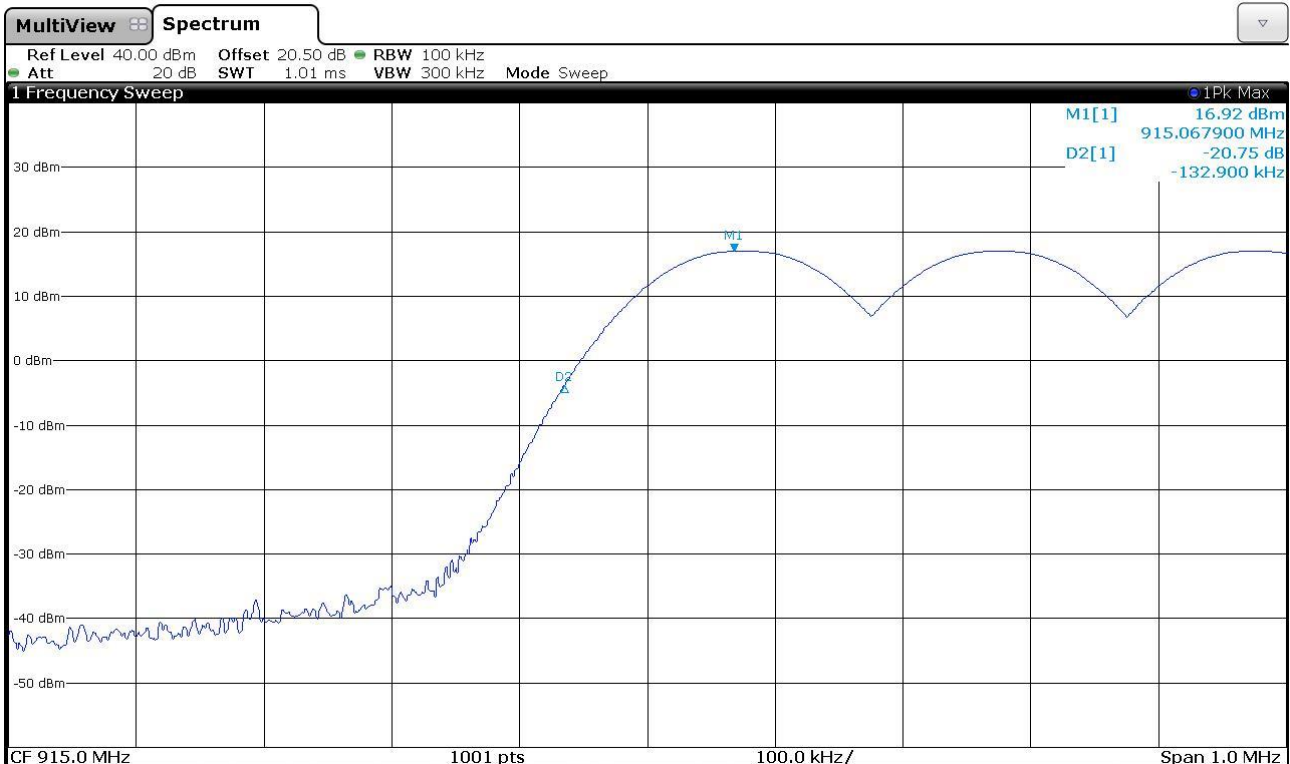
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Bertezzo 19132441



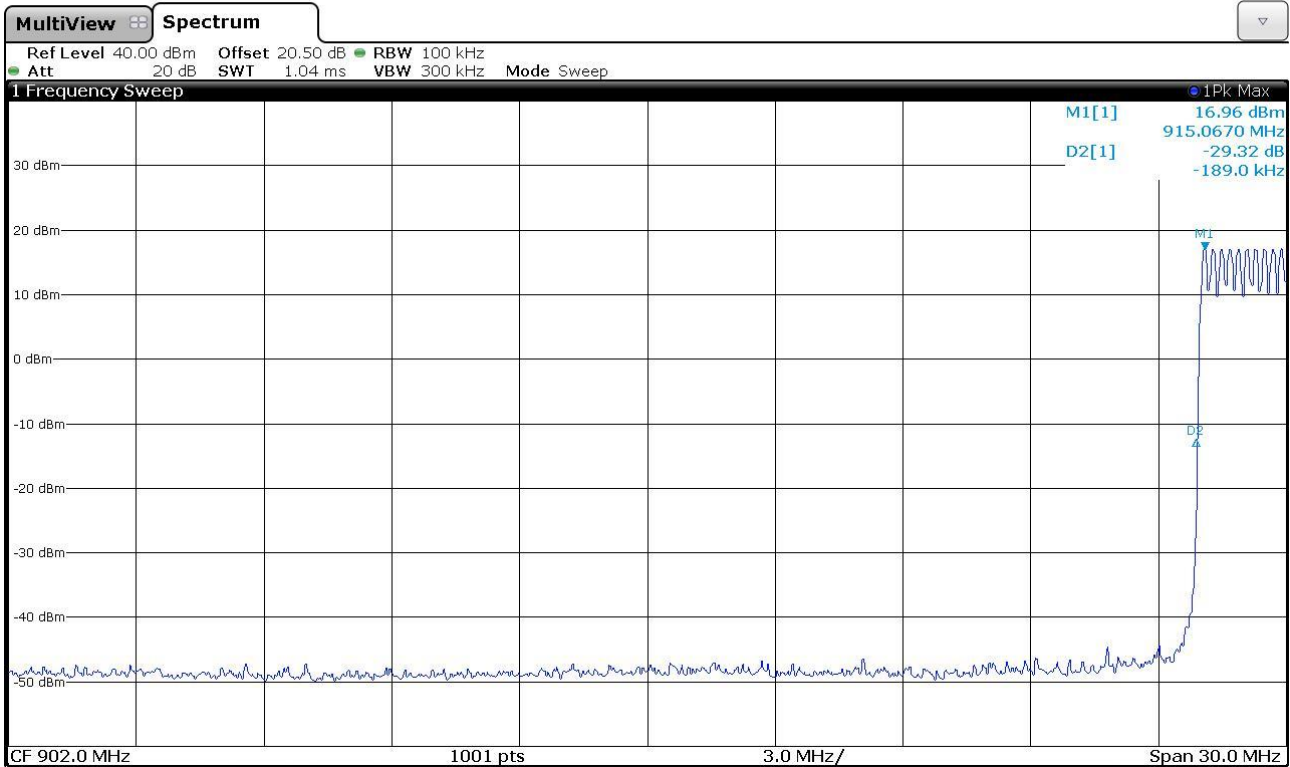
Gandini 19132444



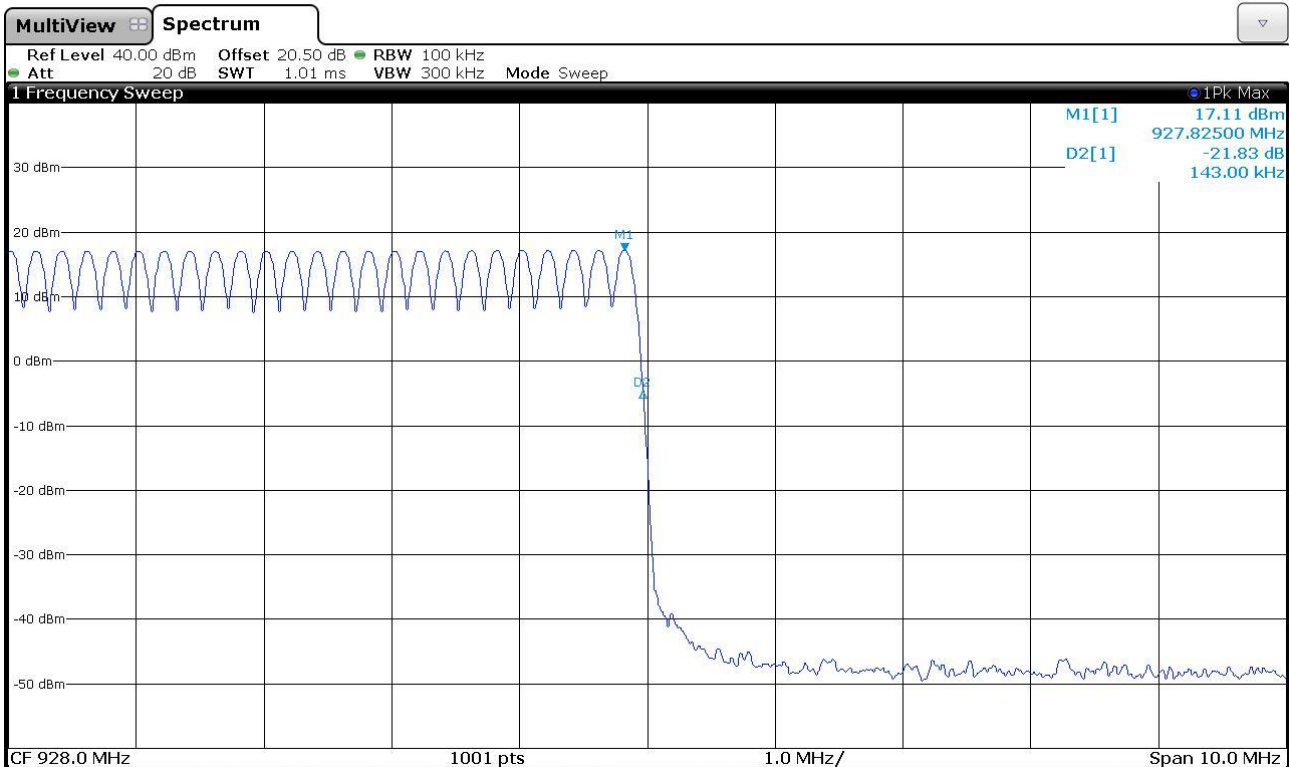
CMC Centro Misure Compatibilità S.r.l.



Gandini 19132445

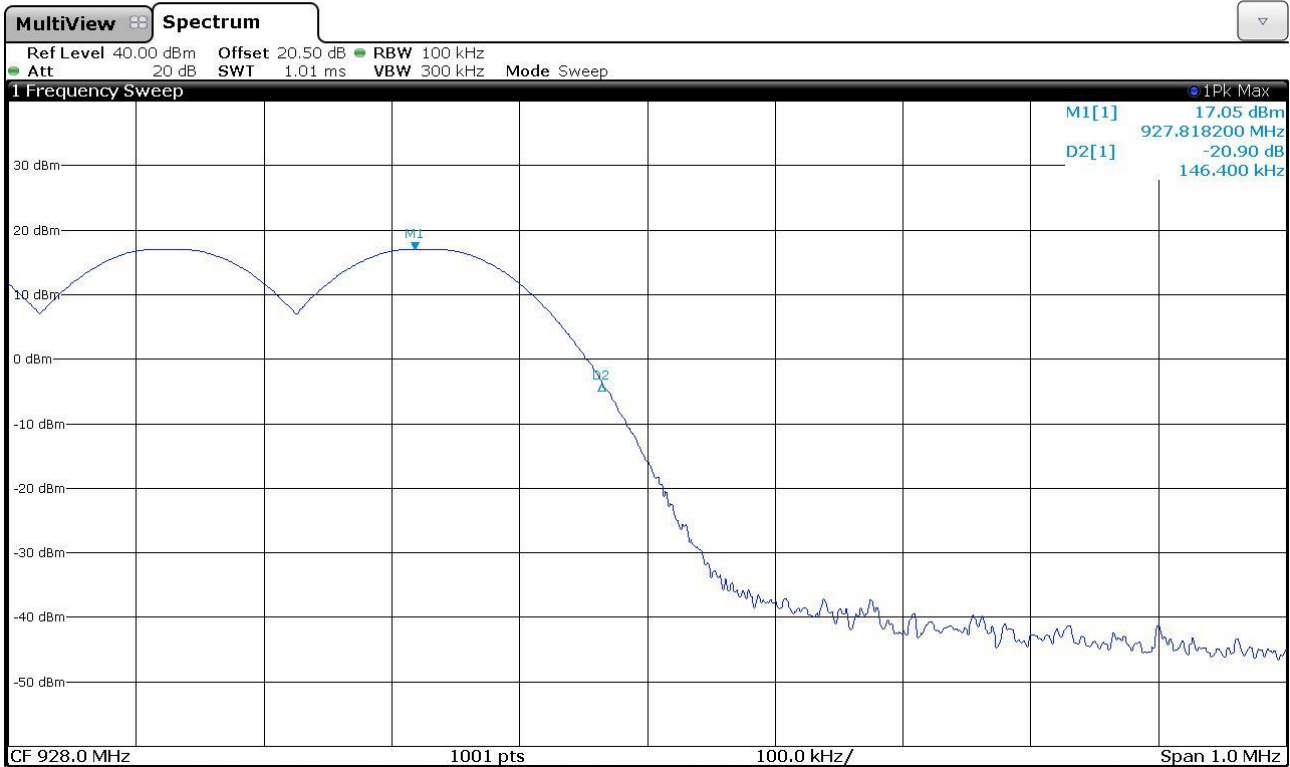


Gandini 19132446





Gandini 19132447



Result: The requirements are met



11.8 Peak Output Power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 2.2
- ANSI C63.10 cl. 7.8.5
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
 Laboratory

Auxiliary equipment:
 See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S295
 Measurement uncertainty: See clause 7 of this test report

Test specification

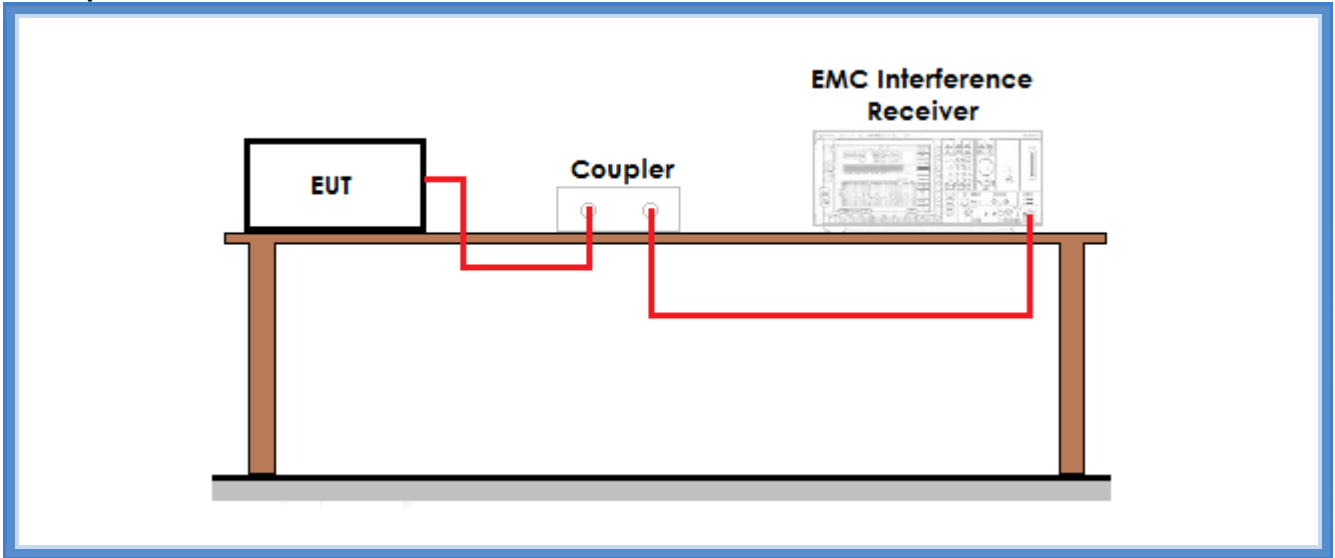
Port: antenna

Environmental conditions

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

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.

Setup



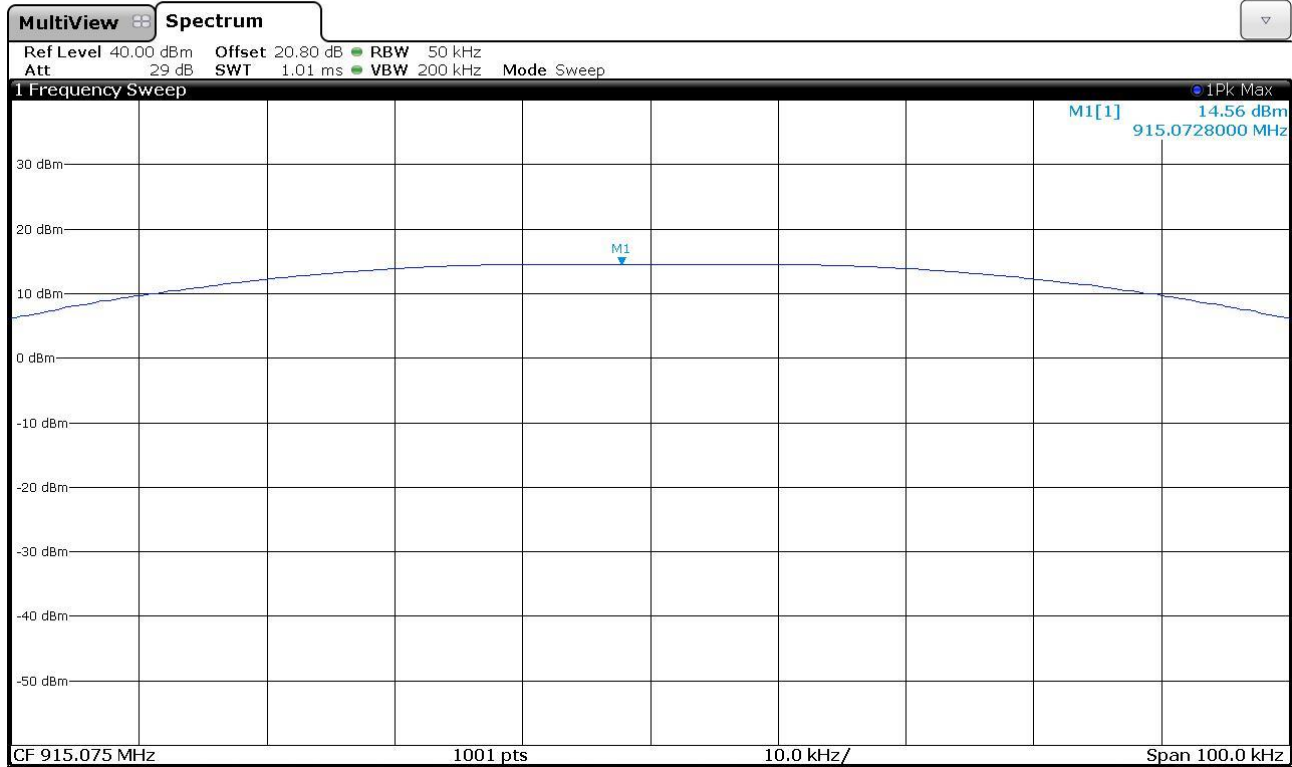
Result

Frequency (MHz)	Graphs	Conducted measured level (dBm)	Conducted power level (mW)	Limit (mW)	Verdict	Calculated radiated level @ 3 m (dB μ V/m)
915,075	G19132436	14,56	28,58	1000	Pass	111,79
921,425	G19132437	14,61	28,91	1000	Pass	111,84
927,825	G19132438	14,64	29,11	1000	Pass	111,87

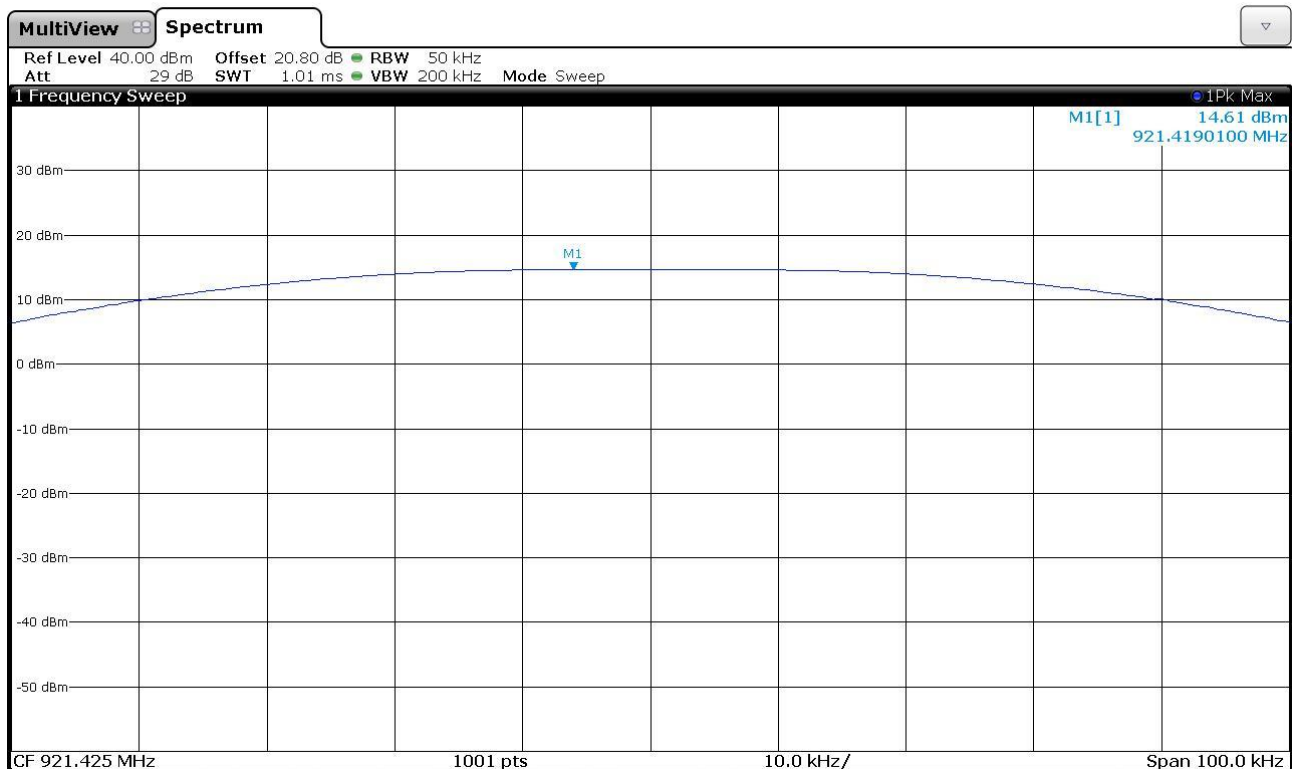


Graphs

Bertezolo 19132436



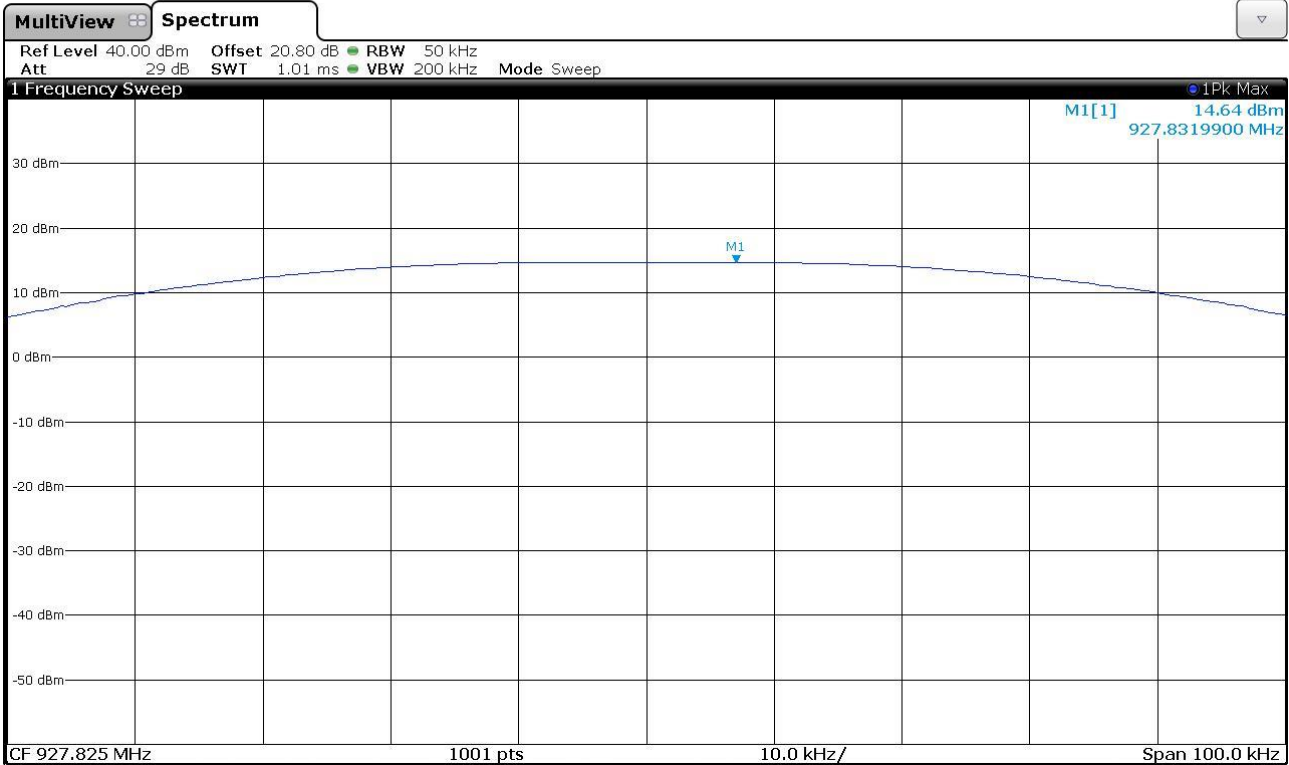
Bertezolo 19132437



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Bertezzo 19132438



Result: The requirements are met

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