

Equipment : Secured Wireless Access Point

Brand Name : FORTINET

Model No. : FORTIAP-S421Exxxxxx,

FortiAP S421Exxxxxx, FAP-S421Exxxxxx

(where "x" can be used as "A-Z", or "-0-9", or "-", or blank

for software changes or marketing purposes only)

FORTIAP-S423Exxxxxx,

FortiAP S423Exxxxxx, FAP-S423Exxxxxx

(where "x" can be used as "A-Z", or "-0-9", or "-", or blank

for software changes or marketing purposes only)

FCC ID : TVE-28166022

Standard : 47 CFR FCC Part 15

Applicant / : Fortinet Inc.

Manufacturer 899 Kifer Road Sunnyvale, CA 94086, USA

The product sample received on Oct. 24, 2016 and completely tested on Nov. 25, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Kevin Liang / Assistant/Manager





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Revision History

Report No.	Version	Description	Issued Date
FR6O1926CO Rev. 01		Initial issue of report	Dec. 02, 2016

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1 CO-LOCATION

1.1 Transmitter Radiated Unwanted Emissions

1.1.1 The Worst Case Measurement Configuration

Th	ne Worst Case Mode for Following Conformance Tests						
Tests Item	Transmitter Radiated Unwanted Emissions						
Test Condition	Radiated measurement						
	EUT will be placed in fixed position.						
User Position	EUT will be placed in mobile position and operating multiple positions.						
	EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.						
Non-Beamforming	□ 4. PoE Mode with PIFA (2.4G+5G Band 2, Band 3)						
Operating Mode < 1GHz							
	⊠ 8. PoE Mode with Dipole (2.4G+5G Band 2, Band 3)						
Mode 8 configuration was	s pretested and found to be the worst case and measured during the test.						
	9. Adapter Mode with PIFA (2.4G+5G Band 1, Band 4)						
	10. PoE Mode with PIFA (2.4G+5G Band 1, Band 4)						
	11. Adapter Mode with PIFA (2.4G+5G Band 2, Band 3)						
Beamforming	2. PoE Mode with PIFA (2.4G+5G Band 2, Band 3)						
Operating Mode < 1GHz	☐ 13. Adapter Mode with Dipole (2.4G+5G Band 1, Band 4)						
	14. PoE Mode with Dipole (2.4G+5G Band 1, Band 4)						
	☐ 16. PoE Mode with Dipole (2.4G+5G Band 2, Band 3)						
Mode 9 configuration was	s pretested and found to be the worst case and measured during the test.						
	1. EUT with PIFA (2.4G+5G Band 1, Band 4)						
Non-Beamforming	2. EUT with PIFA (2.4G+5G Band 2, Band 3)						
Operating Mode > 1GHz	3. EUT with Dipole (2.4G+5G Band 1, Band 4)						
	∠ 4. EUT with Dipole (2.4G+5G Band 2, Band 3)						
Beamforming							
Operating Mode > 1GHz							
	⊠ 8. EUT with Dipole (2.4G+5G Band 2, Band 3)						

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	Th	e Worst Case Mode for Fo	ollowing Conformance Tes	sts		
Orthogonal Planes of EUT		X Plane	X Plane Y Plane			
Worst	PIFA			V		
Planes of EUT	Dipole	V				
Worst Planes of Ant.	Dipole			V		

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1.1.2 Transmitter Radiated Unwanted Emissions Limit

Restricted Band Emissions Limit									
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)						
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300						
0.490~1.705	24000/F(kHz)	33.8 - 23	30						
1.705~30.0	30	29	30						
30~88	100	40	3						
88~216	150	43.5	3						
216~960	200	46	3						
Above 960	500	54	3						

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- Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 30 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
- Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted Band Emissions Limit					
RF output power procedure	Limit (dB)				
Peak output power procedure	20				
Average output power procedure	30				

- Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.
- Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

1.1.3 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

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1.1.4 Test Procedures

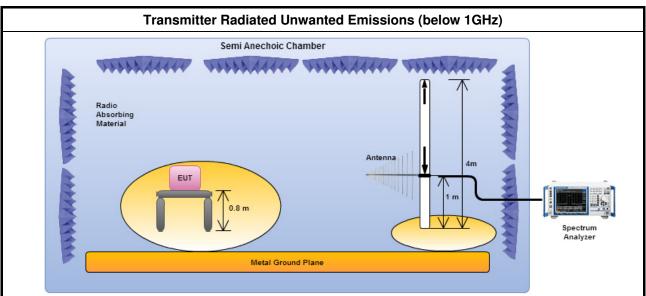
	Test Method
perfo equi extra dista	surements may be performed at a distance other than the limit distance provided they are not ormed in the near field and the emissions to be measured can be detected by the measurement pment. When performing measurements at a distance other than that specified, the results shall be applated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear ance for field-strength measurements, inverse of linear distance-squared for power-density surements).
The	average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
For	the transmitter unwanted emissions shall be measured using following options below:
\boxtimes	Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
\boxtimes	Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.
	Refer as KDB 558074, clause 12.2.5.1 and 9.2.1 Option 1 (spectral trace averaging)
	Refer as KDB 558074, clause 12.2.5.2 and 9.2.1 Option 2 (slow sweep speed).
	Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.
	Refer as KDB 558074, clause 12.2.4 and 9.1.1 measurement procedure peak limit.
	Refer as KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.
For	radiated measurement, refer as KDB 558074, clause 12.1.
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
\boxtimes	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
\boxtimes	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.
For	conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2.
	For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs. For conducted unwanted emissions into restricted bands (absolute emission limits).
]	Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB

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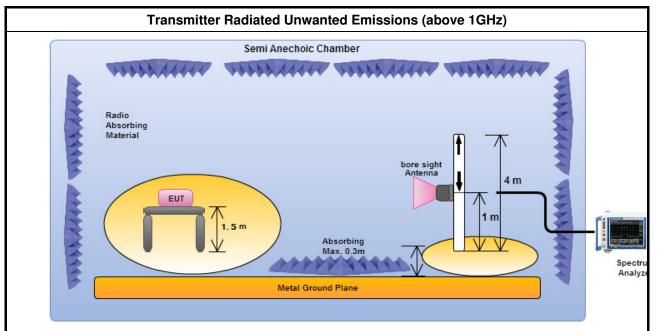


1.1.5 Test Setup



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Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

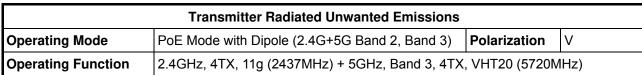


Electric field tests shall be performed in the frequency range of 1 GHz to 10th harmonic of highest fundamental frequency or 40 GHz using a calibrated horn antenna.

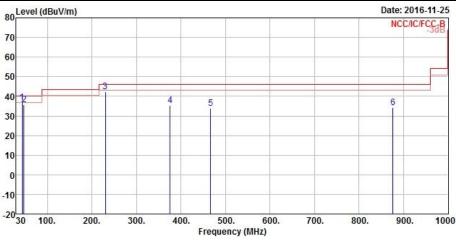
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1.1.6 Results of Radiated Emissions (Below 1GHz) - Non-Beamforming



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	Freq	Level		Limit Line					
_	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	

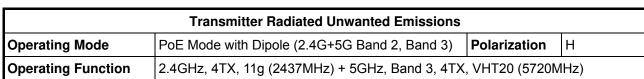
1	43.580	36.80	-3.20	40.00	57.23	16.46	0.38	37.27 QP
2	47.460	35.69	-4.31	40.00	58.00	14.51	0.40	37.22 Peak
3	229.820	42.30	-3.70	46.00	62.73	15.12	0.84	36.39 Peak
4	375.320	35.50	-10.50	46.00	51.06	19.96	1.08	36.60 Peak
5	466.500	33.77	-12.23	46.00	47.05	22.36	1.23	36.87 Peak
6	875.840	34.09	-11.91	46.00	42.28	27.70	1.76	37.65 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

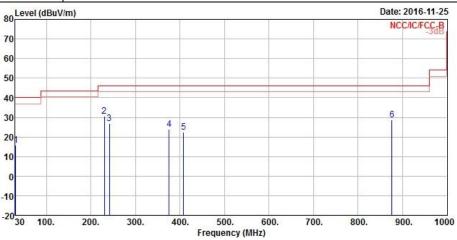
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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	Freq	Level	Over Limit	T T T T T T T		Antenna Factor			Remark
5	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	30.970	15.67	-24.33	40.00	30.76	21.98	0.33	37.40	Peak
2	229.820	30.37	-15.63	46.00	50.80	15.12	0.84	36.39	Peak
3	241.460	26.95	-19.05	46.00	46.17	16.31	0.86	36.39	Peak
4	375.320	23.76	-22.24	46.00	39.32	19.96	1.08	36.60	Peak
5	408.300	22.61	-23.39	46.00	37.05	21.12	1.13	36.69	Peak
6	875.840	28.69	-17.31	46.00	36.88	27.70	1.76	37.65	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

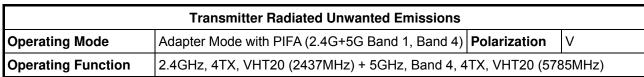
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

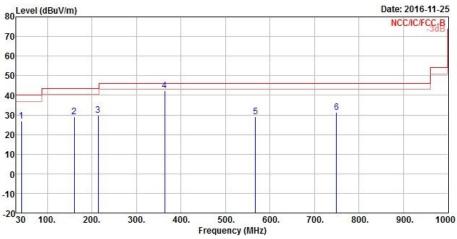
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1.1.7 Results of Radiated Emissions (Below 1GHz) – Beamforming



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	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	41.640	26.74	-13.26	40.00	46.15	17.49	0.38	37.28	Peak
2	159.980	29.05	-14.45	43.50	49.38	15.51	0.72	36.56	Peak
3	214.300	29.66	-13.84	43.50	51.12	14.11	0.82	36.39	Peak
4	363.680	42.53	-3.47	46.00	58.33	19.70	1.07	36.57	Peak
5	567.380	28.97	-17.03	46.00	39.93	24.84	1.37	37.17	Peak
6	749.740	31.26	-14.74	46.00	40.42	26.76	1.60	37.52	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

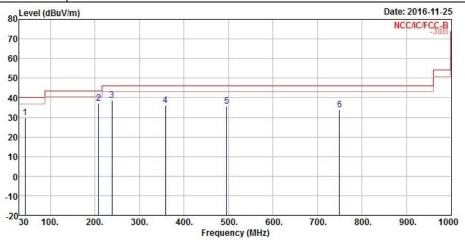
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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Transmitter Radiated Unwanted Emissions								
Operating Mode	Adapter Mode with PIFA (2.4G+5G Band 1, Band 4)	Polarization	Н					
Operating Function	2.4GHz, 4TX, VHT20 (2437MHz) + 5GHz, Band 4, 4	TX, VHT20 (578	B5MHz)					

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	Freq	Level	Over Limit	T T T T T T T		Antenna Factor			Remark
5.	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	7
1	43.580	29.99	-10.01	40.00	50.42	16.46	0.38	37.27	Peak
2	208.480	37.24	-6.26	43.50	58.77	14.05	0.81	36.39	Peak
3	238.550	38.74	-7.26	46.00	58.30	15.97	0.86	36.39	Peak
4	358.830	35.98	-10.02	46.00	51.89	19.58	1.06	36.55	Peak
5	495.600	35.55	-10.45	46.00	48.47	22.77	1.28	36.97	Peak
6	749.740	33.98	-12.02	46.00	43.14	26.76	1.60	37.52	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

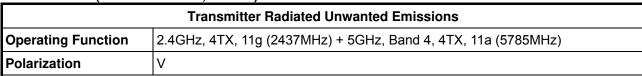
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

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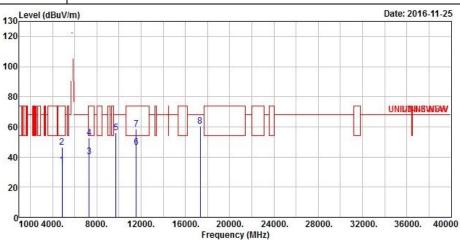


1.1.8 Results for Radiated Emissions (Above 1GHz) – Non-Beamforming

EUT with PIFA (2.4G+5G Band 1, Band 4)



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			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	34.58	-19.42	54.00	32.39	31.22	6.13	35.16	Average
2	4874.000	46.49	-27.51	74.00	44.30	31.22	6.13	35.16	Peak
3	7311.000	40.22	-13.78	54.00	31.93	36.11	7.60	35.42	Average
4	7311.000	52.88	-21.12	74.00	44.59	36.11	7.60	35.42	Peak
5	9748.000	56.22			44.53	38.75	8.89	35.95	Peak
6	11570.000	46.34	-7.66	54.00	31.93	39.93	9.79	35.31	Average
7	11570.000	58.62	-15.38	74.00	44.21	39.93	9.79	35.31	Peak
8	17355.000	60.46	-7.74	68.20	42.24	41.44	11.92	35.14	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

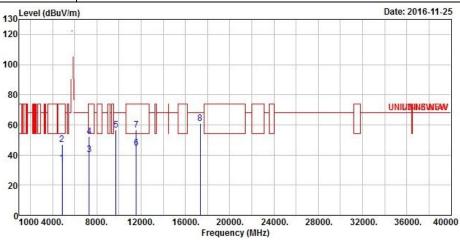
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



EUT with PIFA (2.4G+5G Band 1, Band 4)

	Transmitter Radiated Unwanted Emissions
Operating Function	2.4GHz, 4TX, 11g (2437MHz) + 5GHz, Band 4, 4TX, 11a (5785MHz)
Polarization	Н

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	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	34.68	-19.32	54.00	32.49	31.22	6.13	35.16	Average
2	4874.000	47.20	-26.80	74.00	45.01	31.22	6.13	35.16	Peak
3	7311.000	40.12	-13.88	54.00	31.83	36.11	7.60	35.42	Average
4	7311.000	52.25	-21.75	74.00	43.96	36.11	7.60	35.42	Peak
5	9748.000	56.40			44.71	38.75	8.89	35.95	Peak
6	11570.000	44.70	-9.30	54.00	30.29	39.93	9.79	35.31	Average
7	11570.000	56.63	-17.37	74.00	42.22	39.93	9.79	35.31	Peak
8	17355.000	60.92	-7.28	68.20	42.70	41.44	11.92	35.14	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

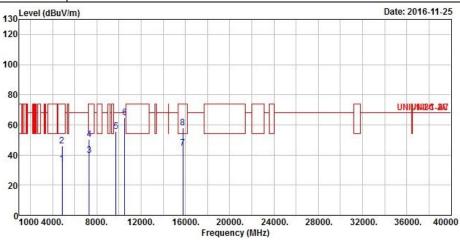
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EUT with PIFA (2.4G+5G Band 2, Band 3)

	Transmitter Radiated Unwanted Emissions
Operating Function	2.4GHz, 4TX, 11g (2437MHz) + 5GHz, Band 2, 4TX, 11a (5260MHz)
Polarization	V

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	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	34.13	-19.87	54.00	31.94	31.22	6.13	35.16	Average
2	4874.000	46.17	-27.83	74.00	43.98	31.22	6.13	35.16	Peak
3	7311.000	39.91	-14.09	54.00	31.62	36.11	7.60	35.42	Average
4	7311.000	50.50	-23.50	74.00	42.21	36.11	7.60	35.42	Peak
5	9748.000	55.57			43.88	38.75	8.89	35.95	Peak
6	10520.000	64.66	-3.54	68.20	50.91	39.72	9.50	35.47	Peak
7	15780.000	44.84	-9.16	54.00	31.40	37.88	11.33	35.77	Average
8	15780.000	57.83	-16.17	74.00	44.39	37.88	11.33	35.77	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

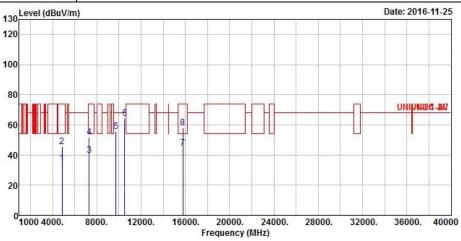
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EUT with PIFA (2.4G+5G Band 2, Band 3)

	Transmitter Radiated Unwanted Emissions
Operating Function	2.4GHz, 4TX, 11g (2437MHz) + 5GHz, Band 2, 4TX, 11a (5260MHz)
Polarization	Н

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	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	34.32	-19.68	54.00	32.13	31.22	6.13	35.16	Average
2	4874.000	45.75	-28.25	74.00	43.56	31.22	6.13	35.16	Peak
3	7311.000	39.76	-14.24	54.00	31.47	36.11	7.60	35.42	Average
4	7311.000	51.87	-22.13	74.00	43.58	36.11	7.60	35.42	Peak
5	9748.000	55.68			43.99	38.75	8.89	35.95	Peak
6	10520.000	64.18	-4.02	68.20	50.43	39.72	9.50	35.47	Peak
7	15780.000	44.77	-9.23	54.00	31.33	37.88	11.33	35.77	Average
8	15780.000	57.81	-16.19	74.00	44.37	37.88	11.33		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

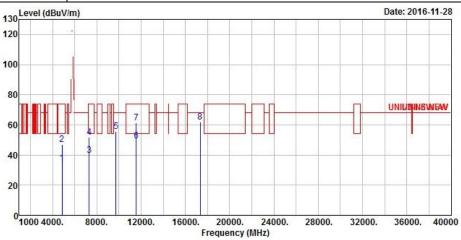
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TEL: 886-3-327-3456 Report Version : Rev. 01



EUT with Dipole (2.4G+5G Band 1, Band 4)

Transmitter Radiated Unwanted Emissions Operating Function 2.4GHz, 4TX, 11g (2437MHz) + 5GHz, Band 4, 4TX, 11a (5785MHz) Polarization V

Report No.: FR6O1926CO



			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	34.77	-19.23	54.00	32.58	31.22	6.13	35.16	Average
2	4874.000	46.89	-27.11	74.00	44.70	31.22	6.13	35.16	Peak
3	7311.000	39.92	-14.08	54.00	31.63	36.11	7.60	35.42	Average
4	7311.000	51.65	-22.35	74.00	43.36	36.11	7.60	35.42	Peak
5	9748.000	55.44			43.75	38.75	8.89	35.95	Peak
6	11570.000	49.41	-4.59	54.00	35.00	39.93	9.79	35.31	Average
7	11570.000	61.17	-12.83	74.00	46.76	39.93	9.79	35.31	Peak
8	17355.000	61.72	-6.48	68.20	43.50	41.44	11.92	35.14	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

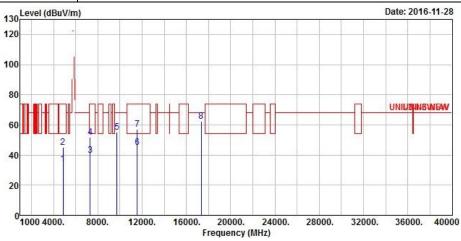
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TEL: 886-3-327-3456 Report Version : Rev. 01



EUT with Dipole (2.4G+5G Band 1, Band 4)

	Transmitter Radiated Unwanted Emissions
Operating Function	2.4GHz, 4TX, 11g (2437MHz) + 5GHz, Band 4, 4TX, 11a (5785MHz)
Polarization	Н

Report No.: FR6O1926CO



	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	-
1	4874.000	34.10	-19.90	54.00	31.91	31.22	6.13	35.16	Average
2	4874.000	45.16	-28.84	74.00	42.97	31.22	6.13	35.16	Peak
3	7311.000	39.86	-14.14	54.00	31.57	36.11	7.60	35.42	Average
4	7311.000	51.70	-22.30	74.00	43.41	36.11	7.60	35.42	Peak
5	9748.000	54.97			43.28	38.75	8.89	35.95	Peak
6	11570.000	44.88	-9.12	54.00	30.47	39.93	9.79	35.31	Average
7	11570.000	57.12	-16.88	74.00	42.71	39.93	9.79	35.31	Peak
8	17355.000	62.37	-5.83	68.20	44.15	41.44	11.92	35.14	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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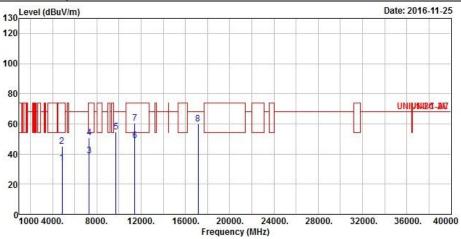
FAX: 886-3-327-0973



EUT with Dipole (2.4G+5G Band 2, Band 3)

Transmitter Radiated Unwanted Emissions Operating Function 2.4GHz, 4TX, 11g (2437MHz) + 5GHz, Band 3, 4TX, VHT20 (5720MHz) Polarization V

Report No.: FR6O1926CO



				Limit ReadA		Antenna Cable		Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
	4874.000	33.96	-20.04	54.00	31.77	31.22	6.13	35.16	Average
	4874.000	45.00	-29.00	74.00	42.81	31.22	6.13	35.16	Peak
	7311.000	38.71	-15.29	54.00	30.42	36.11	7.60	35.42	Average
	7311.000	50.68	-23.32	74.00	42.39	36.11	7.60	35.42	Peak
	9748.000	54.84			43.15	38.75	8.89	35.95	Peak
,	11440.000	48.85	-5.15	54.00	34.28	40.12	9.73	35.28	Average
•	11440.000	60.22	-13.78	74.00	45.65	40.12	9.73	35.28	Peak
	17160.000	60.16	-8.04	68.20	42.49	40.81	11.93	35.07	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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FAX: 886-3-327-0973

2

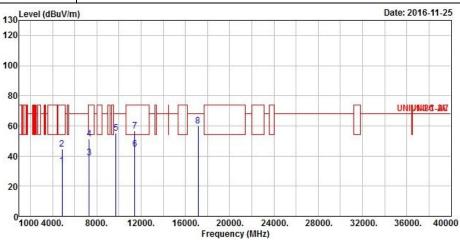
5



EUT with Dipole (2.4G+5G Band 2, Band 3)

Transmitter Radiated Unwanted Emissions						
Operating Function	2.4GHz, 4TX, 11g (2437MHz) + 5GHz, Band 3, 4TX, VHT20 (5720MHz)					
Polarization	Н					

Report No.: FR6O1926CO



			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>
1	4874.000	33.38	-20.62	54.00	31.19	31.22	6.13	35.16	Average
2	4874.000	44.73	-29.27	74.00	42.54	31.22	6.13	35.16	Peak
3	7311.000	38.67	-15.33	54.00	30.38	36.11	7.60	35.42	Average
4	7311.000	51.45	-22.55	74.00	43.16	36.11	7.60	35.42	Peak
5	9748.000	55.28			43.59	38.75	8.89	35.95	Peak
6	11440.000	44.82	-9.18	54.00	30.25	40.12	9.73	35.28	Average
7	11440.000	56.43	-17.57	74.00	41.86	40.12	9.73	35.28	Peak
8	17160.000	60.07	-8.13	68.20	42.40	40.81	11.93	35.07	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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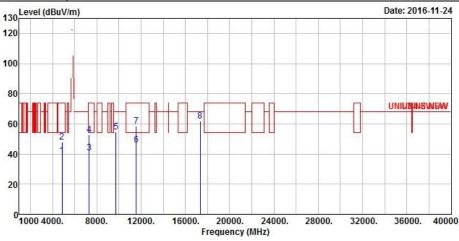


1.1.9 Results for Radiated Emissions (Above 1GHz) – Beamforming

EUT with PIFA (2.4G+5G Band 1, Band 4)

Transmitter Radiated Unwanted Emissions							
Operating Function	2.4GHz, 4TX, VHT20 (2437MHz) + 5GHz, Band 4, 4TX, VHT20 (5785MHz)						
Polarization	V						

Report No.: FR6O1926CO



	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	38.65	-15.35	54.00	36.46	31.22	6.13	35.16	Average
2	4874.000	48.05	-25.95	74.00	45.86	31.22	6.13	35.16	Peak
3	7311.000	41.00	-13.00	54.00	32.71	36.11	7.60	35.42	Average
4	7311.000	52.70	-21.30	74.00	44.41	36.11	7.60	35.42	Peak
5	9748.000	54.88			43.19	38.75	8.89	35.95	Peak
6	11570.000	45.96	-8.04	54.00	31.55	39.93	9.79	35.31	Average
7	11570.000	58.33	-15.67	74.00	43.92	39.93	9.79	35.31	Peak
8	17355.000	62.03	-6.17	68.20	43.81	41.44	11.92	35.14	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

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Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

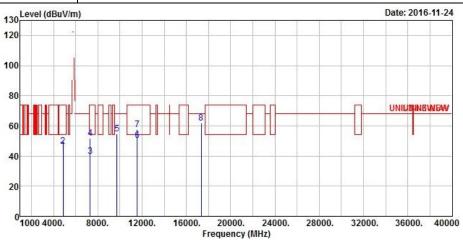
Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.



EUT with PIFA (2.4G+5G Band 1, Band 4)

Transmitter Radiated Unwanted Emissions						
Operating Function	2.4GHz, 4TX, VHT20 (2437MHz) + 5GHz, Band 4, 4TX, VHT20 (5785MHz)					
Polarization	Н					

Report No.: FR6O1926CO



	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	43.60	-10.40	54.00	41.41	31.22	6.13	35.16	Average
2	4874.000	46.60	-27.40	74.00	44.41	31.22	6.13	35.16	Peak
3	7311.000	39.99	-14.01	54.00	31.70	36.11	7.60	35.42	Average
4	7311.000	52.01	-21.99	74.00	43.72	36.11	7.60	35.42	Peak
5	9748.000	54.57	This becomes also	2 3 3 4 5 5 5 5 5	42.88	38.75	8.89	35.95	Peak
6	11570.000	50.16	-3.84	54.00	31.94	41.44	11.92	35.14	Average
7	11570.000	57.79	-16.21	74.00	43.38	39.93	9.79	35.31	Peak
8	17355.000	61.67	-6.53	68.20	43.45	41.44	11.92	35.14	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

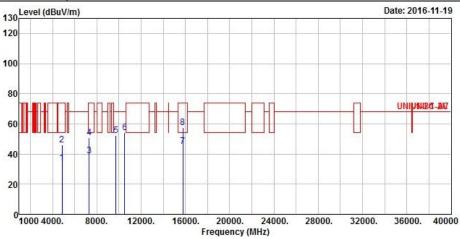
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EUT with PIFA (2.4G+5G Band 2, Band 3)

Transmitter Radiated Unwanted Emissions								
Operating Function	2.4GHz, 4TX, VHT20 (2437MHz) + 5GHz, Band 2, 4TX, VHT20 (5260MHz)							
Polarization	V							

Report No.: FR6O1926CO



	Frea	Frea Level		Frea Level L		Frea Level		Limit Line	200000000000000000000000000000000000000	Antenna Factor			Remark
		-	-										
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB					
1	4874.000	34.15	-19.85	54.00	30.53	33.06	5.72	35.16	Average				
2	4874.000	45.90	-28.10	74.00	42.28	33.06	5.72	35.16	Peak				
3	7311.000	38.98	-15.02	54.00	30.59	36.67	7.14	35.42	Average				
4	7311.000	51.00	-23.00	74.00	42.61	36.67	7.14	35.42	Peak				
5	9748.000	52.47			42.91	37.25	8.26	35.95	Peak				
6	10520.000	53.99	-14.21	68.20	43.26	37.51	8.69	35.47	Peak				
7	15780.000	45.21	-8.79	54.00	31.36	38.47	11.15	35.77	Average				
8	15780.000	57.72	-16.28	74.00	43.87	38.47	11.15	35.77	Peak				

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

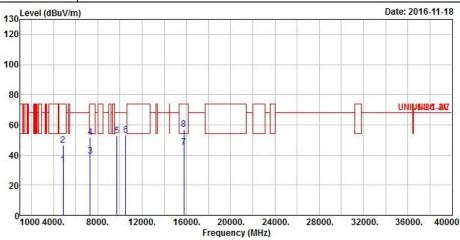
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EUT with PIFA (2.4G+5G Band 2, Band 3)

Transmitter Radiated Unwanted Emissions						
Operating Function	2.4GHz, 4TX, VHT20 (2437MHz) + 5GHz, Band 2, 4TX, VHT20 (5260MHz)					
Polarization	Н					

Report No.: FR6O1926CO



	Freq	Freq Level		Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	33.67	-20.33	54.00	30.05	33.06	5.72	35.16	Average
2	4874.000	46.70	-27.30	74.00	43.08	33.06	5.72	35.16	Peak
3	7311.000	39.16	-14.84	54.00	30.77	36.67	7.14	35.42	Average
4	7311.000	51.67	-22.33	74.00	43.28	36.67	7.14	35.42	Peak
5	9748.000	52.67			43.11	37.25	8.26	35.95	Peak
6	10520.000	53.46	-14.74	68.20	42.73	37.51	8.69	35.47	Peak
7	15780.000	45.18	-8.82	54.00	31.33	38.47	11.15	35.77	Average
8	15780.000	57.08	-16.92	74.00	43.23	38.47	11.15		

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

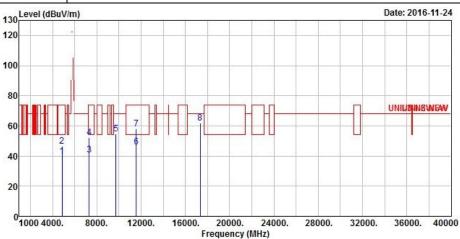
SPORTON INTERNATIONAL INC. Page No. : 24 of 29
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EUT with Dipole (2.4G+5G Band 1, Band 4)

Transmitter Radiated Unwanted Emissions Operating Function 2.4GHz, 4TX, VHT20 (2437MHz) + 5GHz, Band 4, 4TX, VHT20 (5785MHz) Polarization V

Report No.: FR6O1926CO



			Over	Limit	Read	Antenna	Cable	Preamp	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>
L	4874.000	39.77	-14.23	54.00	37.58	31.22	6.13	35.16	Average
2	4874.000	46.62	-27.38	74.00	44.43	31.22	6.13	35.16	Peak
3	7311.000	40.99	-13.01	54.00	32.70	36.11	7.60	35.42	Average
1	7311.000	52.47	-21.53	74.00	44.18	36.11	7.60	35.42	Peak
5	9748.000	54.85			43.16	38.75	8.89	35.95	Peak
5	11570.000	45.90	-8.10	54.00	31.49	39.93	9.79	35.31	Average
7	11570.000	58.22	-15.78	74.00	43.81	39.93	9.79	35.31	Peak
3	17355.000	61.83	-6.37	68.20	43.61	41.44	11.92	35.14	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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FAX: 886-3-327-0973

2

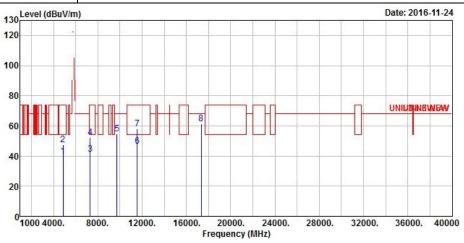
5



EUT with Dipole (2.4G+5G Band 1, Band 4)

Transmitter Radiated Unwanted Emissions						
Operating Function	2.4GHz, 4TX, VHT20 (2437MHz) + 5GHz, Band 4, 4TX, VHT20 (5785MHz)					
Polarization	Н					

Report No.: FR6O1926CO



	- From	Laval	0ver	0.000	ReadAntenna Level Factor			Preamp Factor	Damanla
	Freq	Level	Limit	Line	rever	rac tor	LOSS	Fac Lor.	Kemark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	·
1	4874.000	39.83	-14.17	54.00	37.64	31.22	6.13	35.16	Average
2	4874.000	47.46	-26.54	74.00	45.27	31.22	6.13	35.16	Peak
3	7311.000	41.06	-12.94	54.00	32.77	36.11	7.60	35.42	Average
4	7311.000	52.50	-21.50	74.00	44.21	36.11	7.60	35.42	Peak
5	9748.000	54.71			43.02	38.75	8.89	35.95	Peak
6	11570.000	46.35	-7.65	54.00	31.94	39.93	9.79	35.31	Average
7	11570.000	58.01	-15.99	74.00	43.60	39.93	9.79	35.31	Peak
8	17355.000	61.62	-6.58	68.20	43.40	41.44	11.92	35.14	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

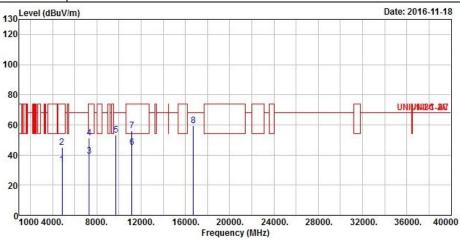
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EUT with Dipole (2.4G+5G Band 2, Band 3)

Transmitter Radiated Unwanted Emissions Operating Function 2.4GHz, 4TX, VHT20 (2437MHz) + 5GHz, Band 3, 4TX, VHT20 (5580MHz) Polarization V

Report No.: FR6O1926CO



		Over		Limit	ReadAntenna		Cable	Preamp		
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	<u> </u>	
1	4874.000	33.51	-20.49	54.00	29.89	33.06	5.72	35.16	Average	
2	4874.000	45.22	-28.78	74.00	41.60	33.06	5.72	35.16	Peak	
3	7311.000	39.18	-14.82	54.00	30.79	36.67	7.14	35.42	Average	
4	7311.000	51.29	-22.71	74.00	42.90	36.67	7.14	35.42	Peak	
5	9748.000	53.17			43.61	37.25	8.26	35.95	Peak	
6	11160.000	44.96	-9.04	54.00	33.27	37.93	9.07	35.31	Average	
7	11160.000	56.11	-17.89	74.00	44.42	37.93	9.07	35.31	Peak	
8	16740.000	59.64	-8.56	68.20	44.04	39.47	11.39	35.26	Peak	

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

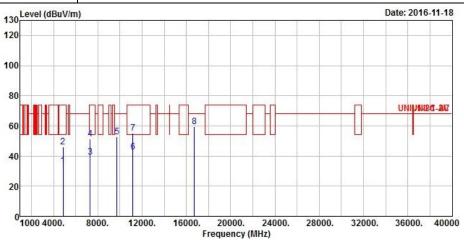
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EUT with Dipole (2.4G+5G Band 2, Band 3)

Transmitter Radiated Unwanted Emissions						
Operating Function	2.4GHz, 4TX, VHT20 (2437MHz) + 5GHz, Band 3, 4TX, VHT20 (5580MHz)					
Polarization	Н					

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	Freq	Level	Over Limit	Limit Line		Antenna Factor			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.000	33.61	-20.39	54.00	29.99	33.06	5.72	35.16	Average
2	4874.000	46.18	-27.82	74.00	42.56	33.06	5.72	35.16	Peak
3	7311.000	39.16	-14.84	54.00	30.77	36.67	7.14	35.42	Average
4	7311.000	51.34	-22.66	74.00	42.95	36.67	7.14	35.42	Peak
5	9748.000	52.91			43.35	37.25	8.26	35.95	Peak
6	11160.000	42.69	-11.31	54.00	31.00	37.93	9.07	35.31	Average
7	11160.000	55.00	-19.00	74.00	43.31	37.93	9.07	35.31	Peak
8	16740.000	59.59	-8.61	68.20	43.99	39.47	11.39	35.26	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level.

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2 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	25/04/2016	24/04/2017
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	30/06/2016	29/06/2017
Amplifier	EMC	EMC9135	980232	9kHz~1.0GHz	29/01/2016	28/01/2017
Amplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	11/04/2016	10/04/2017
Spectrum	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	04/07/2016	03/07/2017
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL 6111D & MTJ6102	35418	30MHz~1GHz	31/03/2016	30/03/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120D 1534	1GHz~18GHz	22/04/2016	21/04/2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170614	18GHz~40GHz	04/01/2016	03/01/2017
Amplifier	MITEQ	JS44-18004000-33-8P	1840917	18GHz~40GHz	02/06/2015	01/06/2017
Loop Antenna	ROHDE&SCHWARZ	HFH2-Z2	100330	9kHz~30MHz	10/11/2016	09/11/2017

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