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7. SPURIOUS EMISSION 7.1 CONDUCTED SPURIOUS EMISSION 7.1.1 MEASUREMENT METHOD

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 + log10(P[Watts]), where P is the transmitter power in Watts.

Test Procedure Used KDB 971168 D01v03 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)

- 2. Detector = RMS
- 3. Trace mode = max hold
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Test Instrument & Measurement Setup

shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.



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Test Note

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

7.1.2 MEASUREMENT RESULT

PLEASE REFER TO: APPENDIX A TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

Note: 1. No emission found in standby or receive mode, no recording in this report.



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7.2 RADIATED SPURIOUS EMISSION 7.2.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.



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System Simulator

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7.2.2. TEST SETUP



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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Spectrum Analyzer / Receiver

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7.2.3 PROVISIONS APPLICABLE

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least 43+10Log(P) dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Note: Only record the worst condition of each test mode:



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7.2.4 MEASUREMENT RESULT

	The state of the s	Low channel	C Meeters	C Hanner C C
Frequency (MHz)	Polarity (H/V)	Emission Level (dBm)	Limit (dBm)	Margin (dB)
3440	V	-34.68	-13	-21.68
896.6	V S	-41.14	-13	-28.14
487.5	V	-41.88	-13	-28.88
3440	Н	-35.25	-13	-22.25
789.3	н	-40.87	-13	-27.87
545.6	TK THE	-40.64	-13	-27.64
0 - 3 100	Glow (C) Free	0		

LTE Band 4

Middle channel

Frequency (MHz)	Polarity (H/V)	Emission Level Limit (dBm) (dBm)		Margin (dB)
3465	V	-34.70	-13	-21.70
859.4	v	-40.81	-13	-27.81
765.9	V	-42.18	-13	-29.18
3465	H H	-34.54	-13	-21.54
564.5	HC Stream	-39.96	-13	-26.96
265.9	H	-40.86	-13	-27.86

High channel

Frequency (MHz)	Polarity (H/V)	Emission Level Limit (dBm) (dBm)		Margin (dB)
3490	V	-34.12	-13	-21.12
687.4	V There's	-40.89	-13	-27.89
586.4	V	-41.77	-13	-28.77
3490	Н	-34.91	-13	-21.91
489.5	H	-40.17	-13	-27.17
357.1	The House	-41.14	-13	-28.14

Note: 1. Margin = Emission Level -Limit

2. (30MHz-20GHz) Below 30MHZ no Spurious found and the QPSK modes is the worst condition.





8. FREQUENCY STABILITY 8.1 MEASUREMENT METHOD

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1 Measure the carrier frequency at room temperature.

Subject the EUT to overnight soak at -10 $^{\circ}$ C. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on channel 20175 for LTE band 4 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.

3 Repeat the above measurements at 10° C increments from -10° C to $+50^{\circ}$ C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.

4 Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.

5 Subject the EUT to overnight soak at $+50^{\circ}$ C.

6 With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.

7 Repeat the above measurements at 10° C increments from $+50^{\circ}$ C to -10° C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.

8 At all temperature levels hold the temperature to +/- 0.5° during the measurement procedure.



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8.2 PROVISIONS APPLICABLE

8.2.1 For Hand carried battery powered equipment

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 and Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

8.2.2 For equipment powered by primary supply voltage

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).

2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.

3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.



8.3 MEASUREMENT RESULT (WORST)

		LIE Band 4		
	Ν	liddle Channel, fo = 1732.	5 MHz	
Temperature (℃)	Power Supplied (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		-0.23	-0.000134	±2.5
0	the marce (-2.50	-0.001445	±2.5
10	George Conten	-4.71	-0.002683	±2.5
20	2.7	-0.34	-0.002683	±2.5
30	3.7	-2.73	-0.001557	±2.5
40	The Compliance	-2.26	-0.001305	±2.5
50	Constation of Globan	-4.29	-0.002477	±2.5
55	S S	-3.02	-0.001742	±2.5
25	4.2	-2.83	-0.001635	• ±2.5
23	3.5	-4.03	-0.002300	±2.5

Note: The EUT doesn't work below -10℃



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9. OCCUPIED BANDWIDTH

9.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

9.2 PROVISIONS APPLICABLE

The emission bandwidth is defined as two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power

9.3 MEASUREMENT RESULT

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.





LTE Band 4

Channel Bandwidth: 1.4 MHz

		CI	hannel Bandwi	dth: 1.4 MHz		
	Channel	RB Confi	guration			
Modulation	Channel	Size	Offset		verdict	
	LCH	6	0	1.0769	PASS	
QPSK	MCH	6	144 ^{00 0} 0	1.0771	PASS	
	HCH	6	0	1.0789	PASS	
	LCH	6	0	1.0787	PASS	
16QAM	MCH	6	0	1.0810	PASS	
	HCH	6	0	1.0780	PASS	
10 marter - 50	(2) 124	O`				

Channel Bandwidth: 3 MHz

		C	Channel Bandw	idth: 3 MHz	
Madulation	Channel	RB Confi	guration		
Modulation	Channel	Size	Offset		verdict
C C	LCH	15	0	2.6831	PASS
QPSK	MCH	15	0	2.6865	PASS
The H	HCH	15	0	2.6854	PASS
Figure of Globa	LCH	15	0	2.6843	PASS
16QAM	МСН	15	0	2.6834	PASS
	HCH	15	0 - the state	2.6912	PASS

Channel Bandwidth: 5 MHz

			Channel Bandw	idth: 5 MHz	
Modulation	Channel	RB Con	figuration	Occupied Rendwidth/MHz	Manaliat
Modulation Channel	Size	Offset		verdict	
Fiobal Compliant	LCH	25	0	4.4817	PASS
QPSK	MCH	25	0	4.4801	PASS
	НСН	25	0	4.4797	PASS
16QAM MCH HCH	LCH	25	0	4.4757	PASS
	MCH	25	0	4.4773	PASS
	НСН	25	0	4.4810	PASS

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		C	hannel Bandwi	dth: 10 MHz		
Madulation	Channel	RB Confi	guration	Occurring Rendwighth (MULT)) (and i at	
Modulation	Channel	Size	Offset		verdict	
CC Meet	LCH	50	0	8.9471	PASS	
QPSK	MCH	50	0	8.9299	PASS	
The the the the	HCH	50	0	8.9286	PASS	
Attestation of C	LCH	50	0	8.9417	PASS	
16QAM	MCH	50	0	8.9401	PASS	
	HCH	50	0	8.9343	PASS	

Channel Bandwidth: 10 MHz

Channel Bandwidth: 15 MHz

		С	hannel Bandwid	dth: 15 MHz	
Modulation	Channel	RB Confi	guration	Occupied Rendwidth (MHz)) (andiat
Modulation	Channel	Size	Offset		verdict
B These	LCH	75	0	13.411	PASS
QPSK	MCH	75	0	13.415	PASS
	HCH	75	0 12	13.392	PASS
16QAM	LCH	75	0	13.415	PASS
	MCH	75	0	13.418	PASS
	НСН	75	0	13.392	PASS

Channel Bandwidth: 20 MHz

		C	Channel Bandwi	dth: 20 MHz	
Madulation	Channel	RB Configuration		Occurried Dendwidth (MI IT)) (a nali a t
Modulation Channel	Channel	Size	Offset		verdict
The Compliance	LCH	100	0 0	17.852	PASS
QPSK	MCH	100	0	17.858	PASS
НС	нсн 🖻	100	0	17.830	PASS
1	LCH	100	0	17.854	PASS
16QAM	MCH	100	0	17.876	PASS
C Attestation of C	HCH	100	0	17.827	PASS

Note: Please refers to Appendix B for compliance test plots for Occupied Bandwidth (99%)

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10. EMISSION BANDWIDTH

10.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

10.2 PROVISIONS APPLICABLE

The emission bandwidth is defined as two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

10.3 MEASUREMENT RESULT

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.





LTE Band 4

Channel Bandwidth: 1.4 MHz

		С	hannel Bandwi	dth: 1.4 MHz	
	Channel	RB Conf	iguration		
Modulation Channel	Size	Offset	260B Bandwidth (MHZ)	verdict	
9	LCH	6	0	1.242	PASS
QPSK	MCH	6	0	1.291	PASS
	HCH	6	0	1.269	PASS
16QAM M H	LCH	6	0	1.278	PASS
	MCH	6	0	1.303	PASS
	HCH	6	0	1.269	PASS
0 22	(2) 500		1311		

Channel Bandwidth: 3 MHz

		C	Channel Bandwi	dth: 3 MHz	
Madulation	Channel	RB Conf	iguration	26dD Dondwidth (MUIT)	
Modulation	Channel	Size	Offset		Verdict
C.C.	LCH	15	0	2.889	PASS
QPSK	MCH	15	0	2.935	PASS
The the part of the	HCH	15	0	2.909	PASS
Figure of Globa	LCH	15	0	2.896	PASS
16QAM	МСН	15	0	2.899	PASS
	HCH	15	0 - Thomas Co	2.902	PASS

Channel Bandwidth: 5 MHz

			Channel Bandwi	dth: 5 MHz	
Modulation	Channel	RB Configuration		OCdD Dendwidth (MUL)	Verdiet
		Size	Offset		verdici
QPSK	LCH	25	0	4.785	PASS
	MCH	25	0	4.793	PASS
	НСН	25	0	4.838	PASS
16QAM	LCH	25	0	4.808	PASS
	MCH	25	0	4.843	PASS
	HCH	25	0	4.808	PASS

The results shows the second s

		С	hannel Bandwi	dth: 10 MHz	
Modulation	Channel	RB Configuration) (ordist
		Size	Offset		verdict
CC Alles	LCH	50	0	9.472	PASS
QPSK	MCH	50	- The O	9.549	PASS
	HCH	50	elenon 0 8 4 m	9.478	PASS
16QAM	LCH	50	0	9.502	PASS
	MCH	50	0	9.515	PASS
	HCH	50	0 million	9.407	PASS
			SAN A CP		

Channel Bandwidth: 10 MHz

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz					
Modulation	Channel	RB Configuration		26dP Pondwidth (MHz)	Vardiat
		Size	Offset		verdict
QPSK	LCH	75	0	14.130	PASS
	МСН	75	0	14.120	PASS
	НСН	75	0	13.990	PASS
16QAM	LCH	75	0	14.080	PASS
	MCH	75	0	14.090	PASS
	НСН	75	0	14.030	PASS

Channel Bandwidth: 20 MHz

		(Channel Bandwi	dth: 20 MHz	
Modulation	Channel	RB Configuration		26dD Dandwidth (MILIT)	Vardiat
		Size	Offset		verdict
The Compliance	LCH	100	0	18.590	PASS
QPSK	MCH	100	0	18.690	PASS
	нсн 🖻	100	0	18.710	PASS
16QAM	LCH	100	0	18.630	PASS
	MCH	100	1 American O	18.640	PASS
	HCH	100	0	18.620	PASS

Note: Please refers to Appendix B for compliance test plots for emission bandwidth (-26dBc)

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11. BAND EDGE

11.1 MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

11.2 PROVISIONS APPLICABLE

As Specified in FCC rules of §2.1051 §24.238(a) §27.53(g) §27.53(h) §27.53(m) KDB 971168 D01v03 – Section 6.0

11.3 MEASUREMENT RESULT

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequency. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. The minimum permissible attenuation level of any spurious emission is 43 + log10(P[Watts]), where P is the transmitter power in Watts.

Please refers to Appendix III for compliance test plots for band edge





APPENDIX ATEST PLOTS FOR CONDUCTED SPURIOUS EMISSION



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APPENDIX B TEST PLOTS FOR OCCUPIED BANDWIDTH (99%) EMISSION BANDWIDTH (-26dBC)

LTE Band 4



Channel Bandwidth: 1.4 MHz





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> Span 6 MH eep 100 m

18.5 dB

99.00 %

26.00 dB

#VBW 91 kHz

OBW Powe

2.6853 MHz

-2.757 kHz

2.884 MHz

CF St 600.000 F

Freq Offs



er 1.733 GHz BW 30 kHz

Transmit Freq Error

Channel Bandwidth: 3 MHz



Span 6 MH eep 100 m

#S

19.5 dB

99.00 %

26.00 dB

#VBW 91 kHz

x dB

2.6851 MHz

-1.812 kHz

2.854 MHz

otal

OBW Powe

CF Ste 600.000 kH

Freq Offse

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er 1.733 GHz BW 30 kHz

nit Freg Error



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Channel Bandwidth: 5 MHz

er 1.733 GHz BW 56 kHz ter 1.733 GHz BW 56 kHz Span 10 MHz veep 100 ms CF Step 1.000000 MH Span 10 MH weep 100 m #VBW 160 kHz #S #VBW 160 kHz #S 18.5 dB 17.4 dB otal I 4.4844 MHz Freq Offse 4.4785 MHz mit Freg Error -2.385 kHz OBW Powe 99.00 % Transmit Freq Error -5.333 kHz **OBW Power** 99.00 % 4.816 MHz 4.839 MHz x dB 26.00 dB x dB -26.00 dB





Freq Offs

r 1.753 GHz 3W 56 kHz Span 10 M weep 100 r CF S W 160 kHz Total Pow 17.5 dBr 4.4855 MHz Freq Off -2.100 kHz OBW Pov 99.00 % smit Freq Err 4.834 MHz dB Bandwidth x dB -26.00 dB



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Channel Bandwidth: 10 MHz

ter 1.733 GHz BW 110 kHz CF Ste 2.000000 MH er 1.733 GHz BW 110 kHz Span 20 MH weep 100 m Span 20 MH veep 100 m #VBW 330 kHz #Sw #VBW 330 kHz #S 17.7 dB 16.7 dB otal 8.9406 MHz 8.9379 MHz Freq Offse -13.574 kHz -13.360 kHz mit Frea Error OBW Powe 99.00 % Transmit Freq Error **OBW Power** 99.00 % 9.437 MHz 9.438 MHz x dB 26.00 dB x dB -26.00 dB



HCH_16QAM_50RB#0 02:40:19 PM Jun 1 Padio Std: None 00 GHz Ref Offset 8.19 dE Ref 18.19 dBm Center Fre Span 20 Mi weep 100 r W 330 kHz Total Pow 16.5 dB 8.9443 MHz Freq Off 7.268 kHz OBW Powe 99.00 % 9.481 MHz x dB -26.00 dB

2 00

Freq Off



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Channel Bandwidth: 15 MHz

r 1.733 GHz BW 160 kHz er 1.733 GHz BW 160 kHz Span 30 MH veep 100 m CF Ste 3.000000 M Span 30 MH weep 100 m #VBW 470 kHz #S #VBW 470 kHz #S 16.4 dB otal 13.388 MHz 13.374 MHz Freq Offse Freq Off mit Frea Error -23,560 kHz OBW Pow 99.00 % Transmit Freq Error -23.864 kHz **OBW Power** 99.00 % 14.01 MHz 14.06 MHz x dB 26.00 dB -26.00 dB



HCH_16QAM_75RB#0





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Channel Bandwidth: 20 MHz





OBW Pov

x dB

99.00 %

-26.00 dB

Freq Off

Center 1.745 GHz Res BW 200 kHz Ccupied Bandwidth 17.903 MHz Ccupied Bandwidth Ccupi

-8.904 kHz

18.59 MHz

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smit Freq Err

dB Bandwidth



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APPENDIX D PHOTOGRAPHS OF TEST SETUP RADIATED SPURIOUS EMISSION

RADIATED SPURIOUS ABOVE 1G EMISSION



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CONDUCTED MEASUREMENTS

----END OF REPORT----

