

Page: 123 of 144

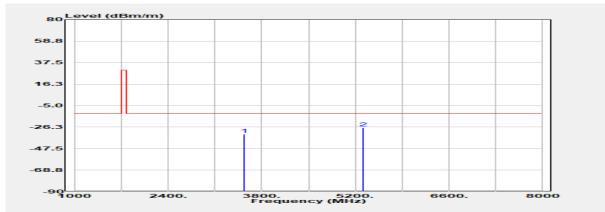
Report Number :E2/2021/70039 Test Site :SAC D

Operation Mode: LTE B66 Test Date: 2021-08-05

Test Mode :TX CH HIGH Temp./Humi. :21.3/65

EUT Pol :H Plane Antenna Pol. :Vertical

Test Frequency :1772.5 MHz Engineer :Jack Tseng



	Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
_	MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
-							
	3545.000	-33.23	-41.91	12.40	-3.72	-13.00	-20.23
	5317.500	-27.10	-35.57	13.00	-4.54	-13.00	-14.10

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Page: 124 of 144

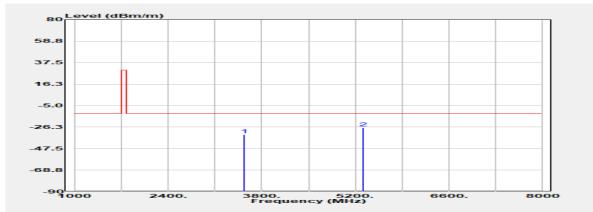
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Operation Mode: LTE B66 Test Date: 2021-08-05

Test Mode :TX CH HIGH Temp./Humi. :21.3/65

EUT Pol :H Plane Antenna Pol. :Horizontal

Test Frequency :1772.5 MHz Engineer :Jack Tseng



	Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
_	MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
	3545.000	-33.60	-42.28	12.40	-3.72	-13.00	-20.60
	5317.500	-27.03	-35.50	13.00	-4.54	-13.00	-14.03

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Page: 125 of 144

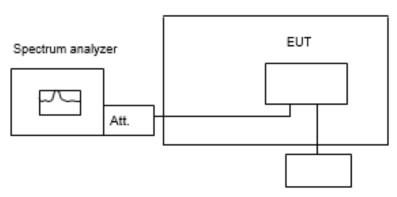
10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2 Test Set-up





Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

10.3 **Measurement Procedure**

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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Page: 126 of 144

10.4 **Measurement Equipment Used**

	Conducted Emission Test Site: Conducted B											
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.							
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022							
Radio Communica- tion Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022							
Attenuator	Marvelous	MVE2213-10	RF05	11/19/2020	11/18/2021							
DC Block	PASTER- NACK	PE8210	RF157	11/19/2020	11/18/2021							
Splitter	Woken	DOM35LW1A2	RF255	11/19/2020	11/18/2021							
Coaxial Cables	Woken	00100A1F1A185C	RF54	11/19/2020	11/18/2021							
Coaxial Cables	Woken	00100A1F1A185C	RF55	11/19/2020	11/18/2021							
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/19/2020	11/18/2021							
Coaxial Cables	Woken	00100A1F1A185C	RF72	11/19/2020	11/18/2021							
DC Power Supply	Agilent	E3640A	MY53140006	05/28/2021	05/27/2022							
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022							
Test Software	SGS	Radio Test Software	Ver.21	N.C.R	N.C.R							

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Page: 127 of 144

10.5 **Measurement Result**

Note: The battery is rated 24 Vdc.

Reference Freq.:	LTE B2 Mid Channel		1880	MHz 10M QPSK CH 18900
Power Supply Vdc	Vdc Temp. (°C) Freq. (MHz)		Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Fred	q. ERROR vs. VC	LTAGE	
27.6	25	1880.000007	7	4700
24	25	1879.999997	-3	4700
20.4	25	1880.000008	8	4700
19.1 (End Point)	25	1879.999996	-4	4700
	Fr	eq. ERROR vs. T	emp.	
24	-30	1879.999997	-3	4700
24	-20	1880.000008	8	4700
24	-10	1880.000007	7	4700
24	0	1879.999998	-2	4700
24	10	1880.000005	5	4700
24	20	1880.000001	1	4700
24	30	1880.000001	1	4700
24	40	1880.000007	7	4700
24	50	1880.000002	2	4700

Reference Freq.:	Channel		1732.5	MHz 10M QPSK CH 20175
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Fred	ı. ERROR vs. VOl	_TAGE	
27.6	25	1732.499995	-5	4331
24	25	1732.500001	1	4331
20.4	25	1732.499996	-4	4331
19.1 (End Point)	25	1732.500007	7	4331
	Fr	eq. ERROR vs. Te	emp.	
24	-30	1732.500000	0	4331
24	-20	1732.499999	-1	4331
24	-10	1732.500009	9	4331
24	0	1732.500002	2	4331
24	10	1732.500009	9	4331
24	20	1732.500000	0	4331
24	30	1732.499998	-2	4331
24	40	1732.499996	-4	4331
24	50	1732.500009	9	4331

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Page: 128 of 144

Reference Freq.:		B12 Mid nannel	707.5	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Fred	q. ERROR vs. VO)LTAGE	
27.6	25	707.500005	5	1769
24	25	707.500004	4	1769
20.4	25	707.500004	4	1769
19.1 (End Point)	25	707.500005	5	1769
	Fr	eq. ERROR vs.	Гетр.	
24	-30	707.500000	0	1769
24	-20	707.499998	-2	1769
24	-10	707.500000	0	1769
24	0	707.499998	-2	1769
24	10	707.499996	-4	1769
24	20	707.500008	8	1769
24	30	707.499995	-5	1769
24	40	707.499995	-5	1769
24	50	707.499995	-5	1769

Reference Freq.:		B17 Mid nannel	710	MHz 10M QPSK CH 23790
Power Supply Vdc	Power Supply Vdc Temp. (°C)		Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
	Fred	ı. ERROR vs. VOl	_TAGE	
27.6	25	710.000000	0	1775
24	25	709.999996	-4	1775
20.4	25	710.000006	6	1775
19.1 (End Point)	25	710.000003	3	1775
	Fr	eq. ERROR vs. Te	emp.	
24	-30	709.999998	-2	1775
24	-20	710.000006	6	1775
24	-10	710.000008	8	1775
24	0	710.000009	9	1775
24	10	709.999995	-5	1775
24	20	709.999999	-1	1775
24	30	710.000005	5	1775
24	40	710.000004	4	1775
24	50	710.000004	4	1775

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Page: 129 of 144

Reference Freq.:		B66 Mid nannel	1745	MHz 10M QPSK CH 132322
Power Supply Vdc	Temp. (℃)	Freq. (MHz)	Delta (Hz)	Limit = $\pm 1/-2.5$ ppm (Hz)
	Fre	q. ERROR vs. VO	LTAGE	
27.6	25	1745.000006	6	4363
24	25	1744.999996	-4	4363
20.4	25	1745.000006	6	4363
19.1 (End Point)	25	1745.000004	4	4363
	Fi	req. ERROR vs. T	emp.	
24	-30	1744.999998	-2	4363
24	-20	1744.999998	-2	4363
24	-10	1745.000007	7	4363
24	0	1745.000003	3	4363
24	10	1745.000003	3	4363
24	20	1744.999995	-5	4363
24	30	1745.000008	8	4363
24	40	1745.000005	5	4363
24	50	1744.999996	-4	4363

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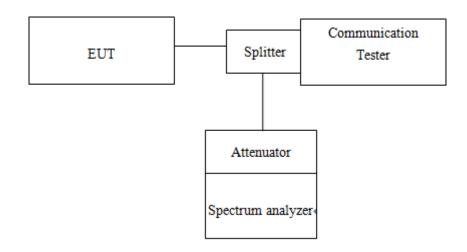
Page: 130 of 144

11 PEAK TO AVERAGE RATIO

Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2 Test SET-UP



11.3 **Measurement Procedure**

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

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f (886-2) 2298-0488



Page: 131 of 144

11.4 **Measurement Equipment Used**

· ·										
	Conducte	d Emission Test Sit	e: Conducted	I B						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022					
Radio Communica- tion Analyer	Anritsu	MT8820C	6201107337	07/28/2021	07/27/2022					
Attenuator	Marvelous	MVE2213-10	RF05	11/19/2020	11/18/2021					
DC Block	PASTER- NACK	PE8210	RF157	11/19/2020	11/18/2021					
Splitter	Woken	DOM35LW1A2	RF255	11/19/2020	11/18/2021					
Coaxial Cables	Woken	00100A1F1A185C	RF54	11/19/2020	11/18/2021					
Coaxial Cables	Woken	00100A1F1A185C	RF55	11/19/2020	11/18/2021					
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/19/2020	11/18/2021					
Coaxial Cables	Woken	00100A1F1A185C	RF72	11/19/2020	11/18/2021					
DC Power Supply	Agilent	E3640A	MY53140006	05/28/2021	05/27/2022					
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022					
Test Software	SGS	Radio Test Software	Ver.21	N.C.R	N.C.R					

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Page: 132 of 144

11.5 **Measurement Result**

LTE BAND 2												
Chai	nnel bandv	vidth: 1.4N	lHz	Channel bandwidth: 3MHz								
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit					
1850.7	18607	5.08	13	1851.5	18615	5.37	13					
1880.0	18900	5.18	13	1880.0	18900	5.33	13					
1909.3	19193	5.20	13	1908.5	19185	5.38	13					

	LTE BAND 2										
Cha	annel band	width: 5MF	Hz	Channel bandwidth: 10MHz							
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)				
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit				
1852.5	18625	5.29	13	1855.0	18650	4.39	13				
1880.0	18900	5.56	13	1880.0	18900	4.53	13				
1907.5	19175	5.20	13	1905.0	19150	4.14	13				

	LTE BAND 2											
Cha	nnel band	width: 15M	Hz	Channel bandwidth: 20MHz								
Freq.	СН	PAPR	(dB)	Freq.	СН	PAPR	(dB)					
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit					
1857.5	18675	4.31	13	1860.0	18700	4.42	13					
1880.0	18900	4.50	13	1880.0	18900	4.48	13					
1902.5	19125	3.86	13	1900.0	19100	4.25	13					

	LTE BAND 4												
Cha	annel bandv	ndwidth: 1.4MHz Channel bandwidth: 3MHz					Hz						
Freq.	СН	PAPR	(dB)	Freq.	PAPR (dB)		(dB)						
(MHz)	Сп	16QAM	Limit	(MHz)	CH	16QAM	Limit						
1710.7	19957	5.49	13	1711.5	19965	5.51	13						
1732.5	20175	5.36	13	1732.5	20175	5.32	13						
1754.3	20393	5.37	13	1753.5	20385	5.55	13						

	LTE BAND 4													
Cha	annel band	width: 5MH	Hz	Channel bandwidth: 10MHz										
Freq.	CH	PAPR	(dB)	Freq.	PAPR (dB)		(dB)							
(MHz)	Сп	16QAM	Limit	(MHz)	CH	16QAM	Limit							
1712.5	19957	5.34	13	1715.0	20000	4.61	13							
1732.5	20175	5.24	13	1732.5	20175	4.44	13							
1752.5	20375	5.37	13	1750.0	20350	4.71	13							

	LTE BAND 4													
Cha	nnel band	width: 15M	Hz	Channel bandwidth: 20MHz										
Freq.	CH	PAPR	(dB)	Freq.	CH PAPR (dB)		(dB)							
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit							
1717.5	20025	4.58	13	1720.0	20050	4.57	13							
1732.5	20175	4.13	13	1732.5	20175	4.72	13							
1747.5	20325	4.39	13	1745.0	20300	4.29	13							

	LTE BAND 12													
Char	nnel bandv	vidth: 1.4M	lHz	Channel bandwidth: 3MHz										
Freq.	Freq. CH	PAPR	(dB)	Freq.	CH PAPR (dB)		(dB)							
(MHz)	СП	16QAM	Limit	(MHz)	Сп	16QAM	Limit							
699.7	23017	5.92	13	700.5	23025	6.04	13							
707.5	23095	6.05	13	707.5	23095	6.21	13							
715.3	23173	6.20	13	714.5	23165	6.19	13							

	LTE BAND 12													
Cha	annel band	width: 5MF	Hz	Channel bandwidth: 10MHz										
Freq.			(dB)	Freq.	CH PAPR (dB)		(dB)							
(MHz)	СП	16QAM	Limit	(MHz)	СП	16QAM	Limit							
701.5	23035	5.96	13	704.0	23060	5.81	13							
707.5	23095	6.02	13	707.5	23095	5.67	13							
713.5	23155	5.98	13	711.0	23130	5.78	13							

	LTE BAND 17													
Cha	annel band	width: 5MF	Hz	Channel bandwidth: 10MHz										
Freq.	CH	PAPR	(dB)	Freq.	PAPR (dB)		(dB)							
(MHz)	СП	16QAM	Limit	(MHz)	CH	16QAM	Limit							
706.5	23755	6.04	13	709.0	23780	5.74	13							
710.0	23790	6.11	13	710.0	23790	5.82	13							
713.5	23825	6.13	13	711.0	23800	5.74	13							

I	LTE BAND 66												
	Chai	nnel bandv	vidth: 1.4M	lHz	Channel bandwidth: 3MHz								
	Freq.	СН	PAPR	(dB)	Freq.	CH PAPR (dB)		(dB)					
	(MHz)	C	16QAM	Limit	(MHz)	СН	16QAM	Limit					
	1710.7	131979	6.57	13	1711.5	131987	6.47	13					
	1745.0	132322	6.38	13	1745.0	132322	6.28	13					
	1779.3	132665	6.16	13	1778.5	132657	6.08	13					

LTE BAND 66													
Cha	annel band	width: 5MH	Hz	Channel bandwidth: 10MHz									
Freq.	CH	PAPR	(dB)	Freq.	СН	PAPR (dB)							
(MHz)	C	16QAM	Limit	(MHz)	СП	16QAM	Limit						
1712.5	131997	6.57	13	1715.0	132022	6.20	13						
1745.0	132322	6.04	13	1745.0	132322	5.95	13						
1777.5	132647	6.05	13	1775.0	132622	5.79	13						

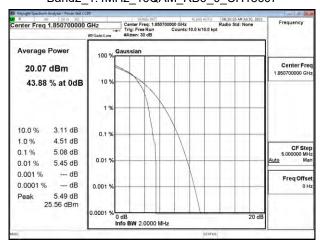
	LTE BAND 66													
Cha	nnel band	width: 15M	Hz	Channel bandwidth: 20MHz										
Freq. CH	PAPR	(dB)	Freq.	CH PAPR (dB)		(dB)								
(MHz)	Сп	16QAM	Limit	(MHz)	Сп	16QAM	Limit							
1717.5	132047	6.07	13	1720.0	132072	5.85	13							
1745.0	132322	5.19	13	1745.0	132322	4.97	13							
1772.5	132597	5.77	13	1770.0	132572	6.02	13							

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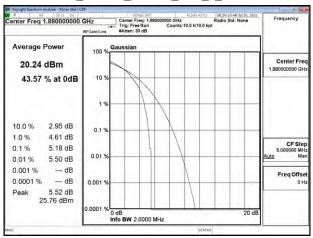
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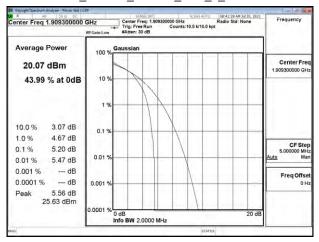
Band2 1.4MHz 16QAM RB6 0 CH18607



Band2 1.4MHz 16QAM RB6 0 CH18900

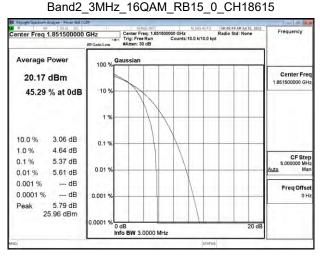


Band2 1.4MHz 16QAM RB6 0 CH19193

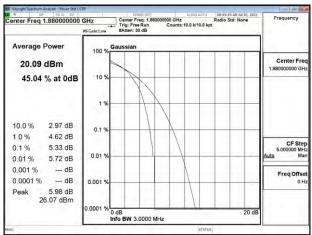


Page: 133 of 144

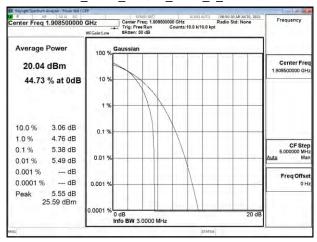
Report No.: E2/2021/70039



Band2_3MHz_16QAM_RB15_0_CH18900



Band2 3MHz 16QAM RB15 0 CH19185



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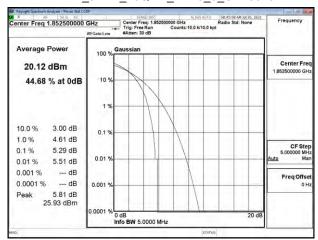
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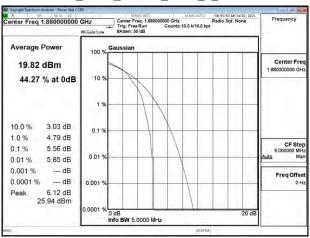


Page: 134 of 144

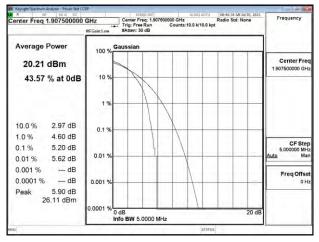
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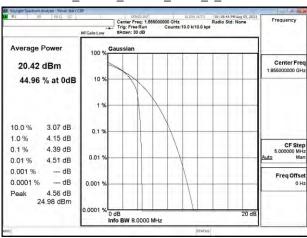
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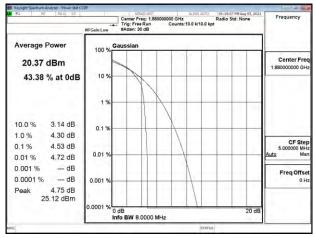
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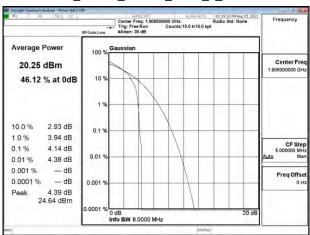
Band2_10MHz_16QAM_RB16_0_CH18650



Band2_10MHz_16QAM_RB16_0_CH18900



Band2 10MHz 16QAM RB16 0 CH19150



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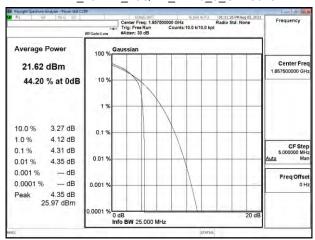
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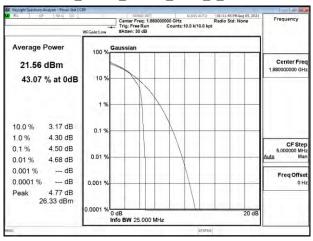


Page: 135 of 144

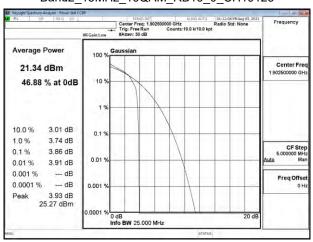
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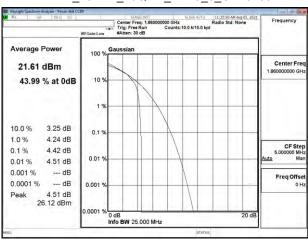
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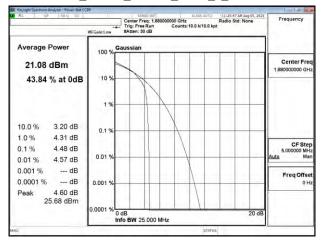
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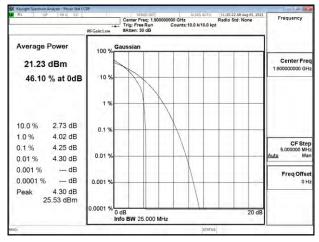
Band2_20MHz_16QAM_RB18_0_CH18700



Band2_20MHz_16QAM_RB18_0_CH18900



Band2 20MHz 16QAM RB18 0 CH19100



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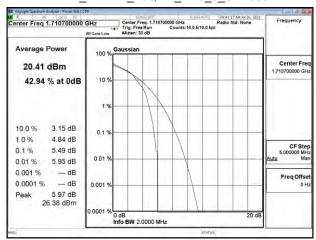
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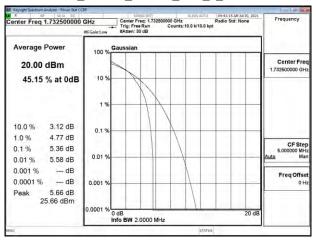


Page: 136 of 144

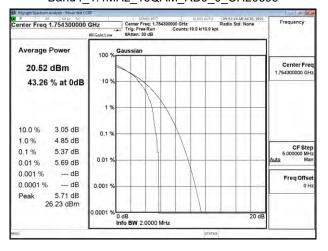
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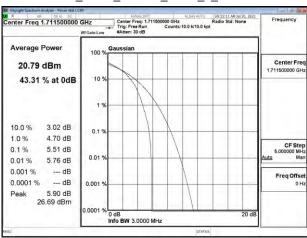
Band4_1.4MHz_16QAM_RB6_0_CH20175



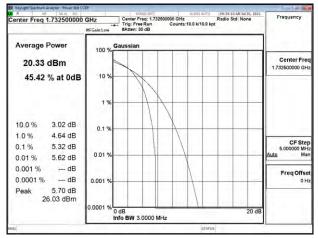
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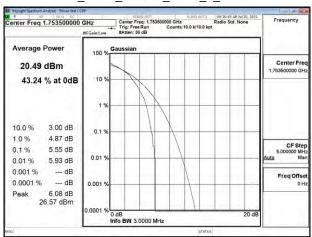
Band4_3MHz_16QAM_RB15_0_CH19965



Band4_3MHz_16QAM_RB15_0_CH20175



Band4_3MHz_16QAM_RB15_0_CH20385



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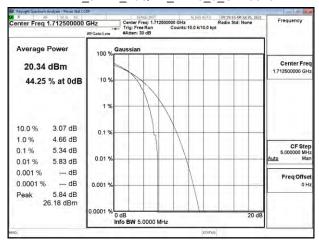
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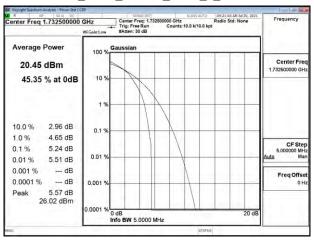


Page: 137 of 144

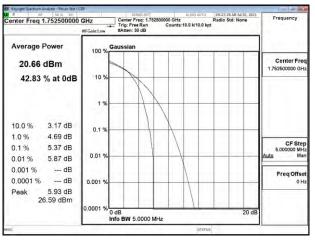
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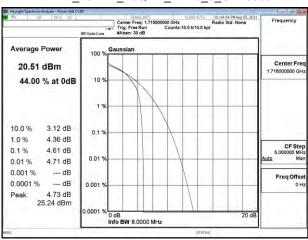
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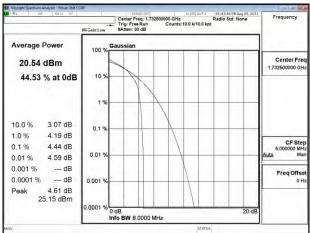
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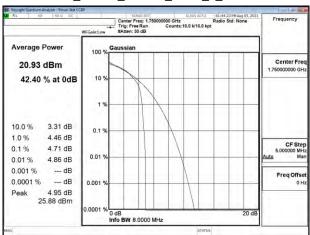
Band4_10MHz_16QAM_RB16_0_CH20000



Band4_10MHz_16QAM_RB16_0_CH20175



Band4 10MHz 16QAM RB16 0 CH20350



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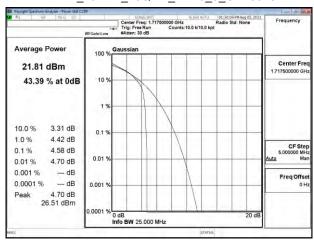
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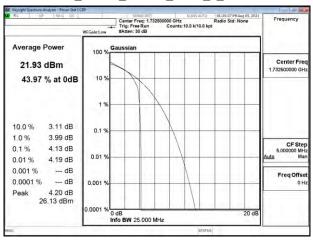


Page: 138 of 144

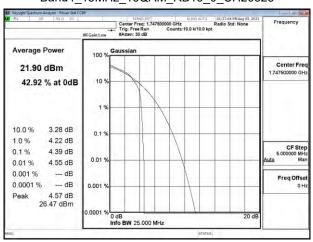
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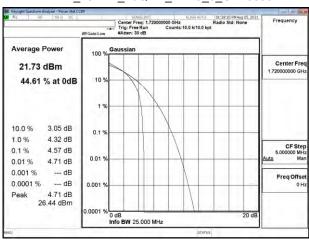
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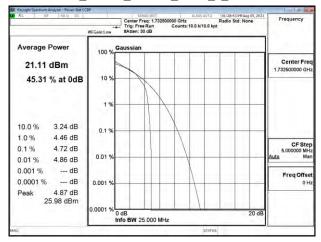
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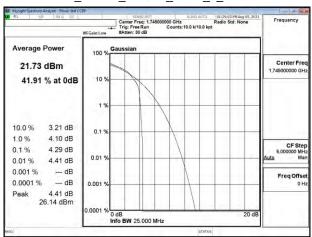
Band4_20MHz_16QAM_RB18_0_CH20050



Band4_20MHz_16QAM_RB18_0_CH20175



Band4 20MHz 16QAM RB18 0 CH20300



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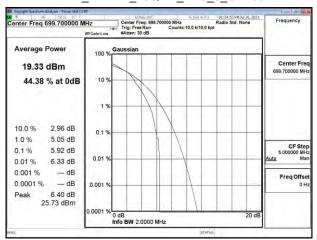
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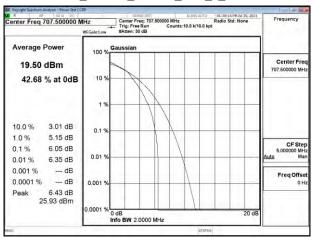


Page: 139 of 144

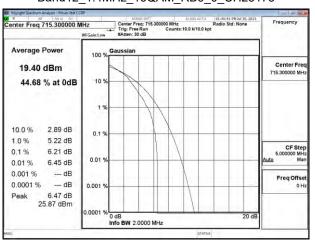
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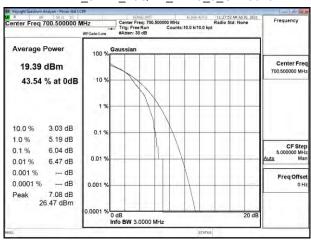
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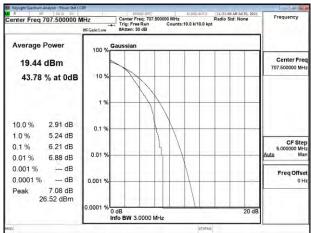
Band12 1.4MHz 16QAM RB6 0 CH23173



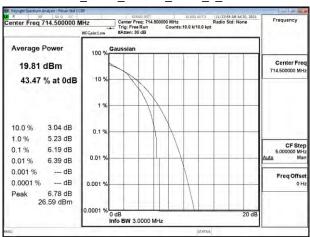
Band12_3MHz_16QAM_RB15_0_CH23025



Band12_3MHz_16QAM_RB15_0_CH23095



Band12_3MHz_16QAM_RB15_0_CH23165



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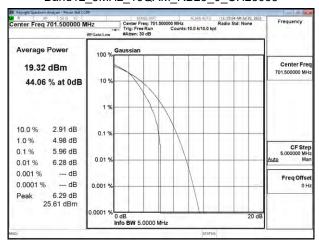
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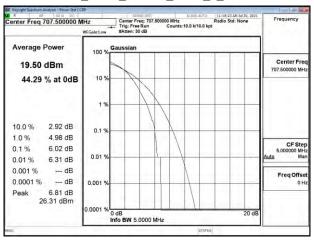


Page: 140 of 144

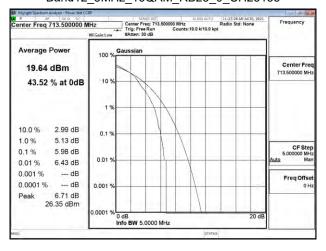
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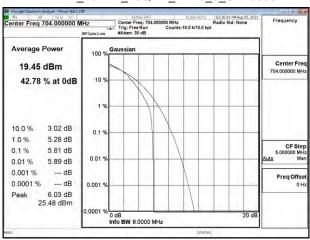
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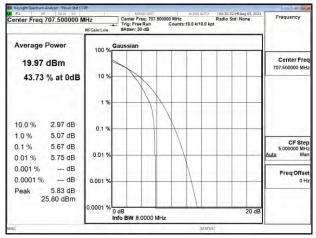
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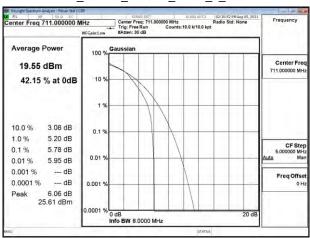
Band12_10MHz_16QAM_RB16_0_CH23060



Band12_10MHz_16QAM_RB16_0_CH23095



Band12_10MHz_16QAM_RB16_0_CH23130



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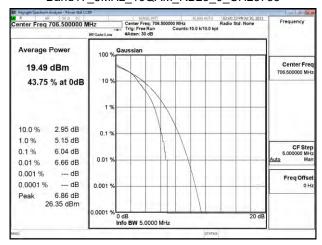
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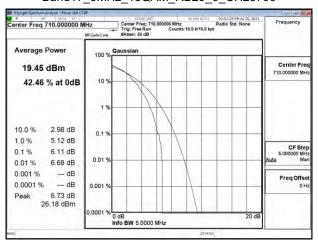


Page: 141 of 144

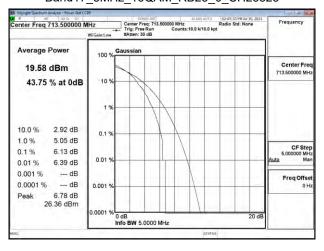
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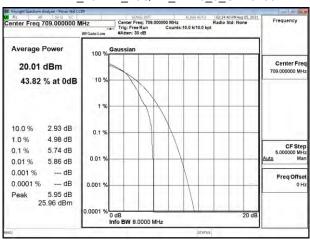
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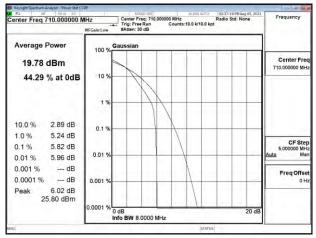
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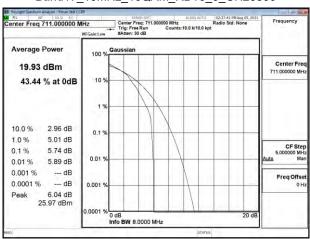
Band17_10MHz_16QAM_RB16_0_CH23780



Band17_10MHz_16QAM_RB16_0_CH23790



Band17 10MHz 16QAM RB16 0 CH23800



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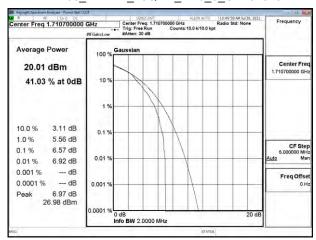
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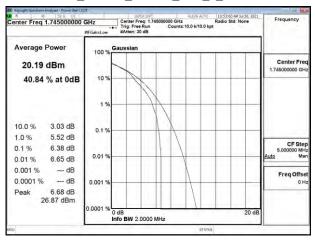


Page: 142 of 144

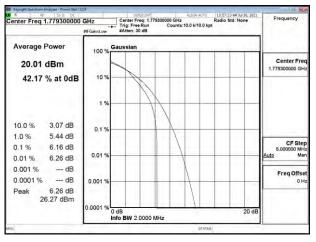
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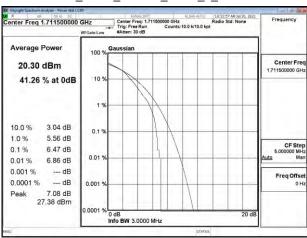
Band66_1.4MHz_16QAM_RB6_0_CH132322



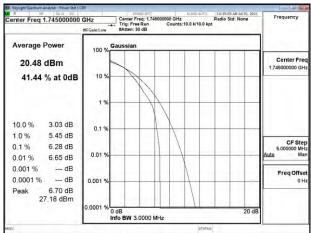
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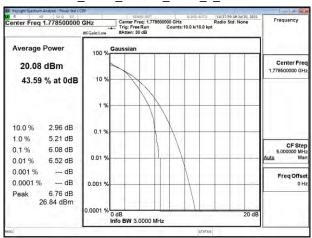
Band66_3MHz_16QAM_RB15_0_CH131987



Band66_3MHz_16QAM_RB15_0_CH132322



Band66_3MHz_16QAM_RB15_0_CH132657



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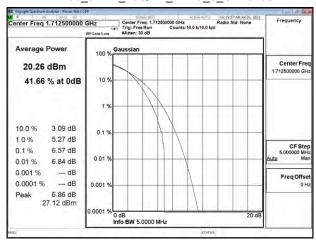
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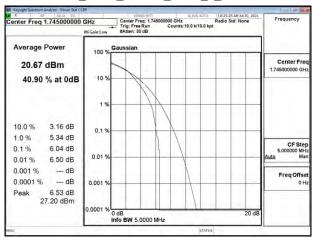


Page: 143 of 144

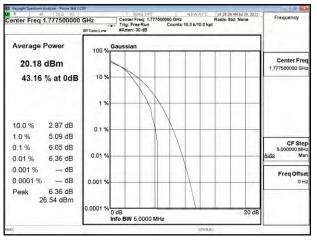
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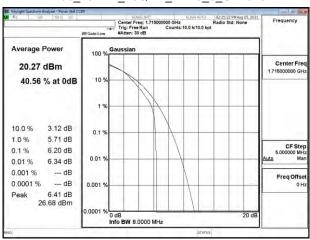
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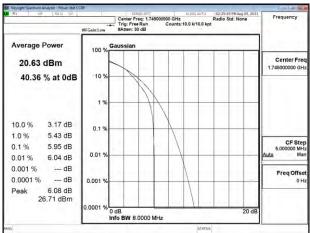
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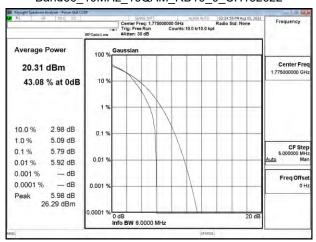
Band66_10MHz_16QAM_RB16_0_CH132022



Band66_10MHz_16QAM_RB16_0_CH132322



Band66 10MHz 16QAM RB16 0 CH132622



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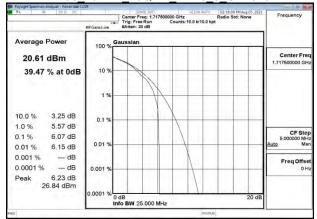
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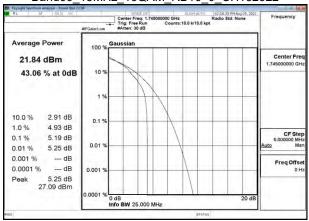


Page: 144 of 144

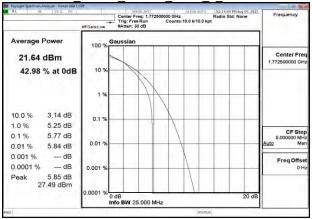
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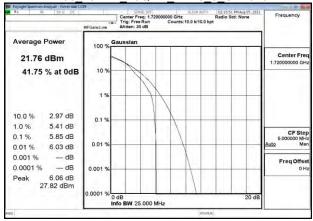
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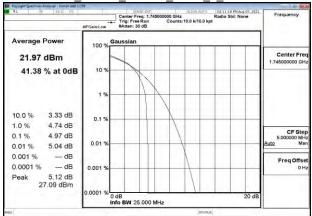
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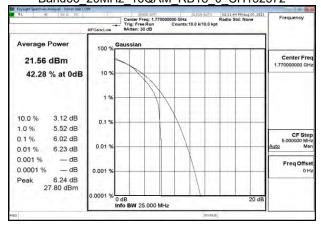
Band66 20MHz 16QAM RB18 0 CH132072



Band66 20MHz 16QAM RB18 0 CH132322



Band66 20MHz 16QAM RB18 0 CH132572



~ End of Report ~

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