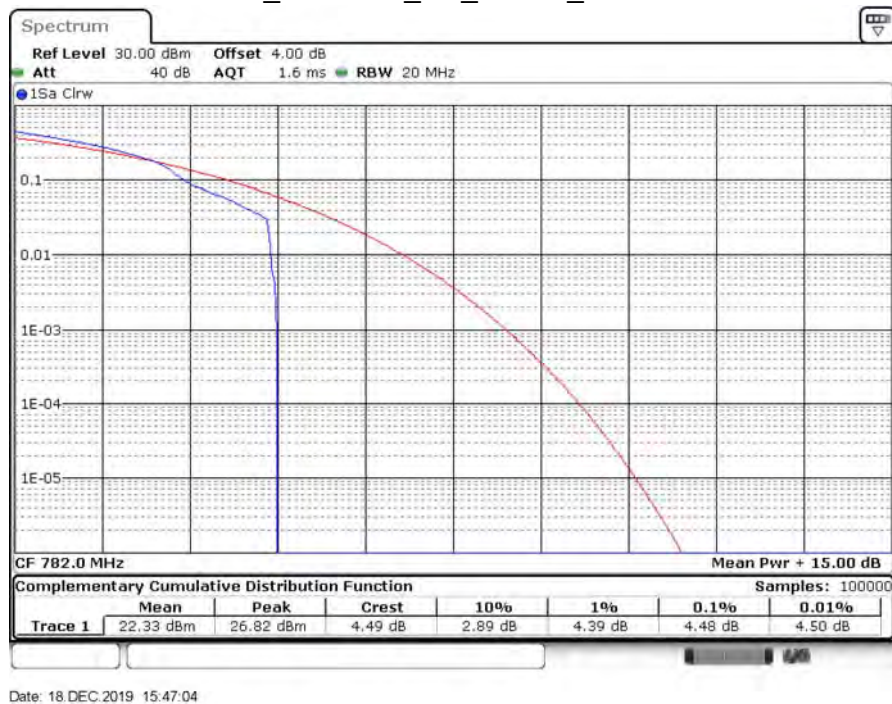


B13_CH23230_5M_1RB12_QPSK



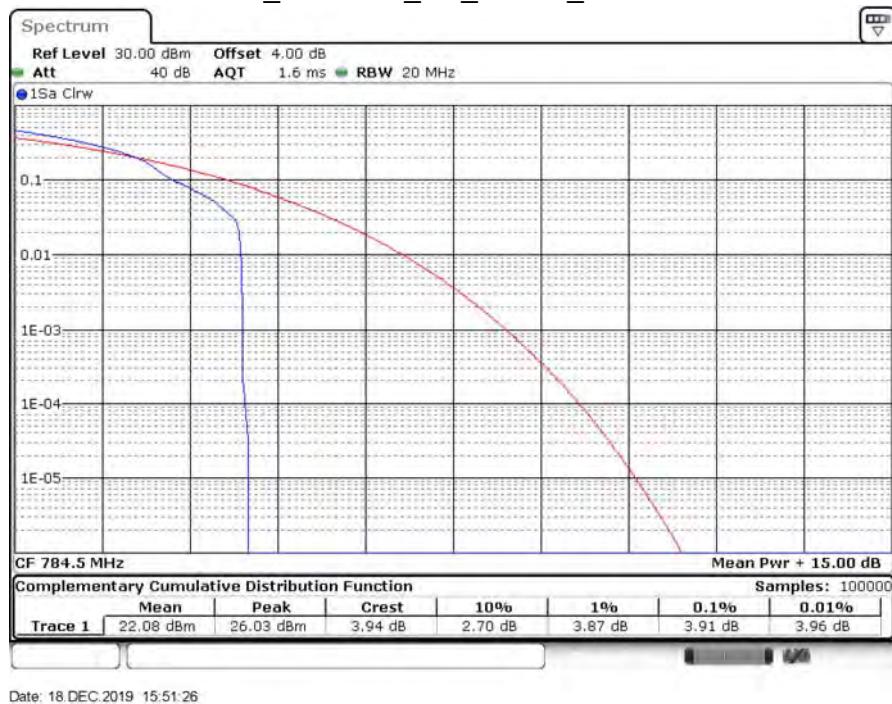
B13_CH23230_5M_1RB12_16-QAM



B13_CH23255_5M_1RB12_QPSK



B13_CH23255_5M_1RB12_16-QAM



B13_CH23230_10M_1RB24_QPSK



Date: 18 DEC 2019 15:54:05

B13_CH23230_10M_1RB24_16-QAM



Date: 18 DEC 2019 15:53:39

Product	Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 6: LTE Band 25		
Date of Test	2019/12/18	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	59%RH

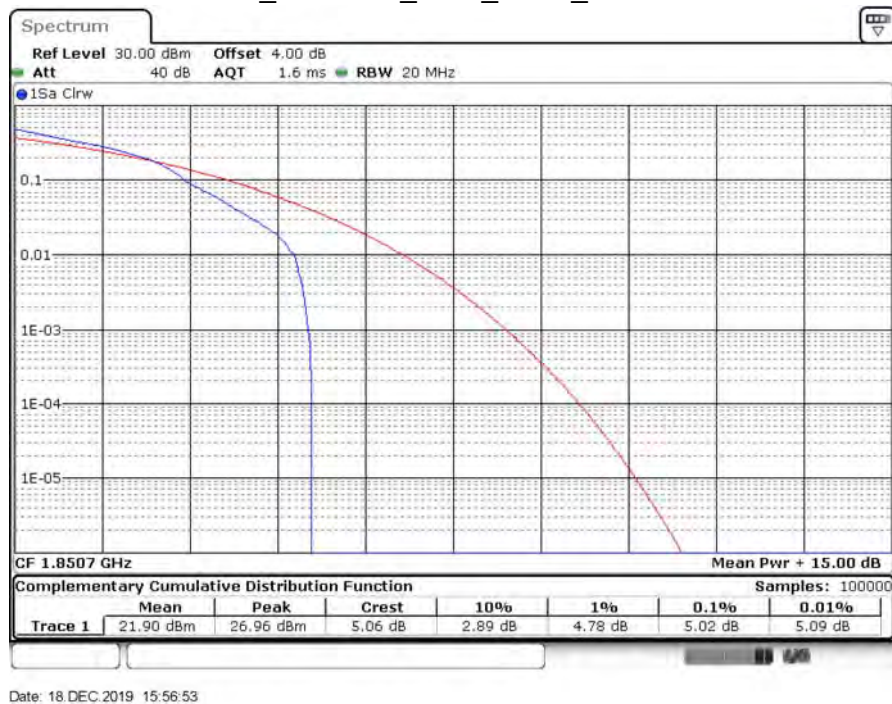
Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	26047	1850.7	QPSK	26.93	22.83	4.04
			16-QAM	26.96	21.90	5.02
	26365	1882.5	QPSK	27.16	22.99	4.11
			16-QAM	27.22	22.13	5.07
	26683	1914.3	QPSK	27.00	22.73	4.24
			16-QAM	27.29	22.08	5.17
3M	26055	1851.5	QPSK	27.00	22.81	4.15
			16-QAM	27.13	22.02	5.02
	26365	1882.5	QPSK	26.98	22.78	4.17
			16-QAM	26.98	21.77	5.20
	26675	1913.5	QPSK	27.15	22.79	4.33
			16-QAM	27.26	22.16	5.09
5M	26065	1852.5	QPSK	26.59	22.73	3.85
			16-QAM	26.96	22.25	4.70
	26365	1882.5	QPSK	26.58	22.68	3.89
			16-QAM	26.32	21.42	4.80
	26665	1912.5	QPSK	26.88	22.64	4.24
			16-QAM	26.86	21.63	5.17
10M	26090	1855	QPSK	26.85	22.95	3.87
			16-QAM	26.81	21.80	4.96
	26365	1882.5	QPSK	26.86	22.60	4.20
			16-QAM	27.14	22.05	5.04
	26640	1910	QPSK	27.18	22.90	4.24
			16-QAM	27.08	21.90	5.02

Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
15M	26115	1857.5	QPSK	27.28	22.65	4.57
			16-QAM	27.19	21.84	5.26
	26365	1882.5	QPSK	26.75	22.44	4.24
			16-QAM	27.19	22.13	4.96
	26615	1907.5	QPSK	26.92	22.50	4.33
			16-QAM	27.00	21.66	5.24
20M	26140	1860	QPSK	27.28	22.44	4.72
			16-QAM	27.82	22.24	5.48
	26365	1882.5	QPSK	27.15	22.93	4.13
			16-QAM	27.09	21.94	5.02
	26590	1905	QPSK	27.42	23.08	4.28
			16-QAM	27.61	22.53	4.98

B25_CH26047_1.4M_1RB2_QPSK



B25_CH26047_1.4M_1RB2_16-QAM



B25_CH26365_1.4M_1RB2_QPSK



Date: 18 DEC 2019 16:34:45

B25_CH26365_1.4M_1RB2_16-QAM



Date: 18 DEC 2019 16:34:53

B25_CH26683_1.4M_1RB2_QPSK



Date: 18 DEC 2019 16:36:09

B25_CH26683_1.4M_1RB2_16-QAM



Date: 18 DEC 2019 16:36:02

B25_CH26055_3M_1RB7_QPSK



Date: 18 DEC 2019 16:39:20

B25_CH26055_3M_1RB7_16-QAM



Date: 18 DEC 2019 16:39:32

B25_CH26365_3M_1RB7_QPSK



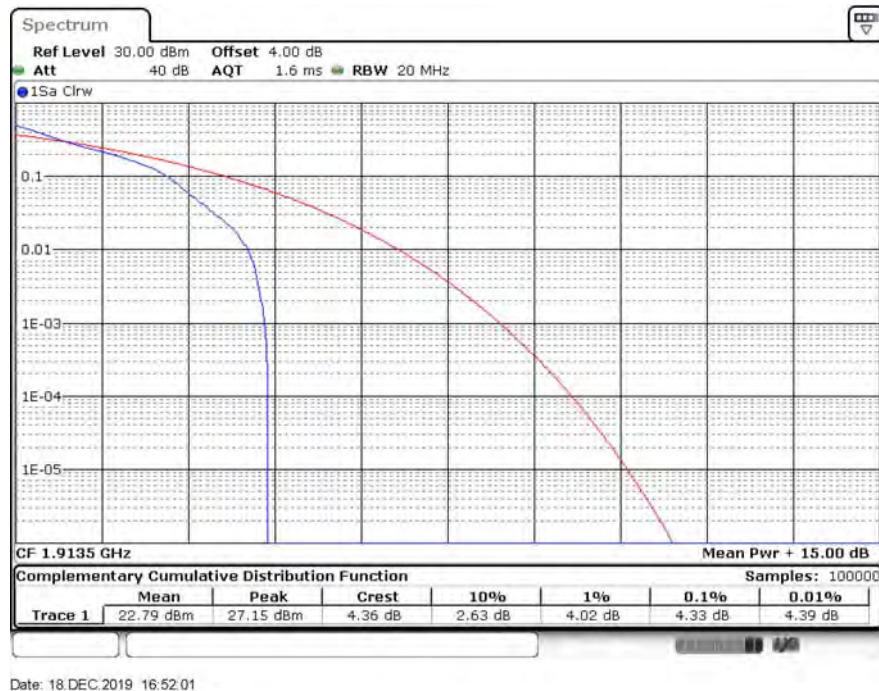
Date: 18 DEC 2019 16:47:02

B25_CH26365_3M_1RB7_16-QAM

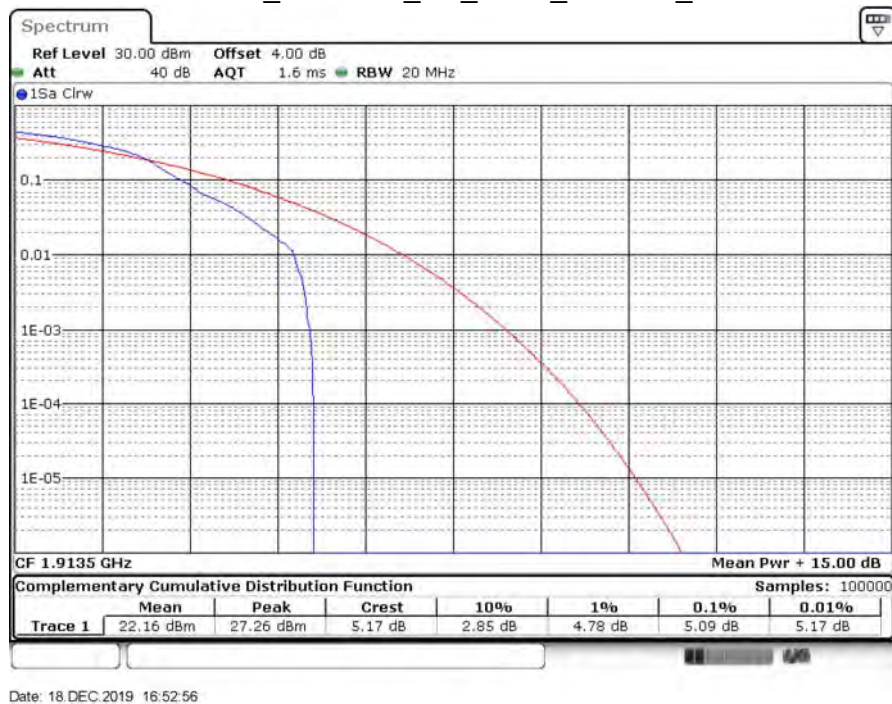


Date: 18 DEC 2019 16:46:52

B25_CH26675_3M_1RB7_QPSK



B25_CH26675_3M_1RB7_16-QAM

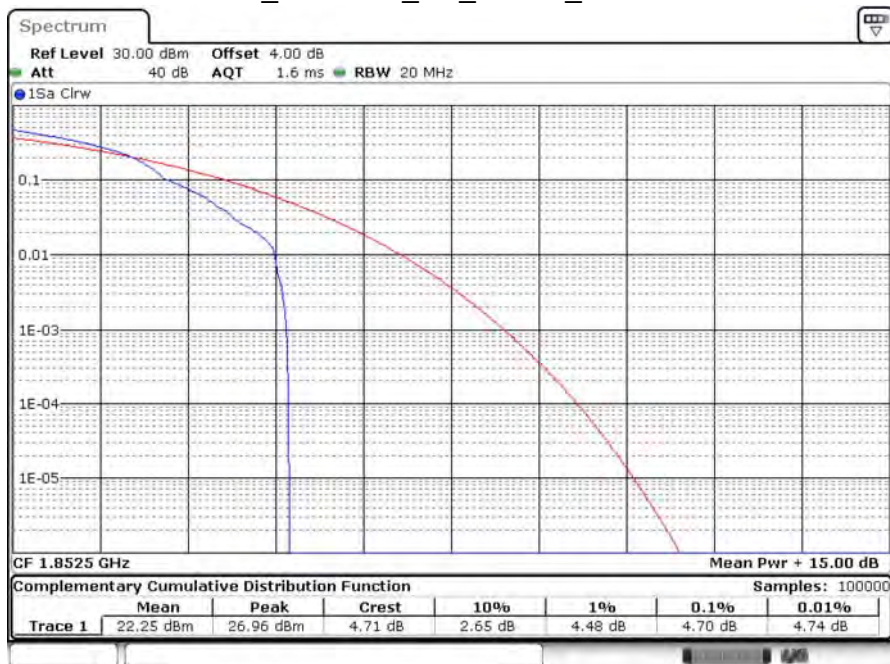


B25_CH26065_5M_1RB12_QPSK



Date: 18 DEC 2019 17:13:42

B25_CH26065_5M_1RB12_16-QAM

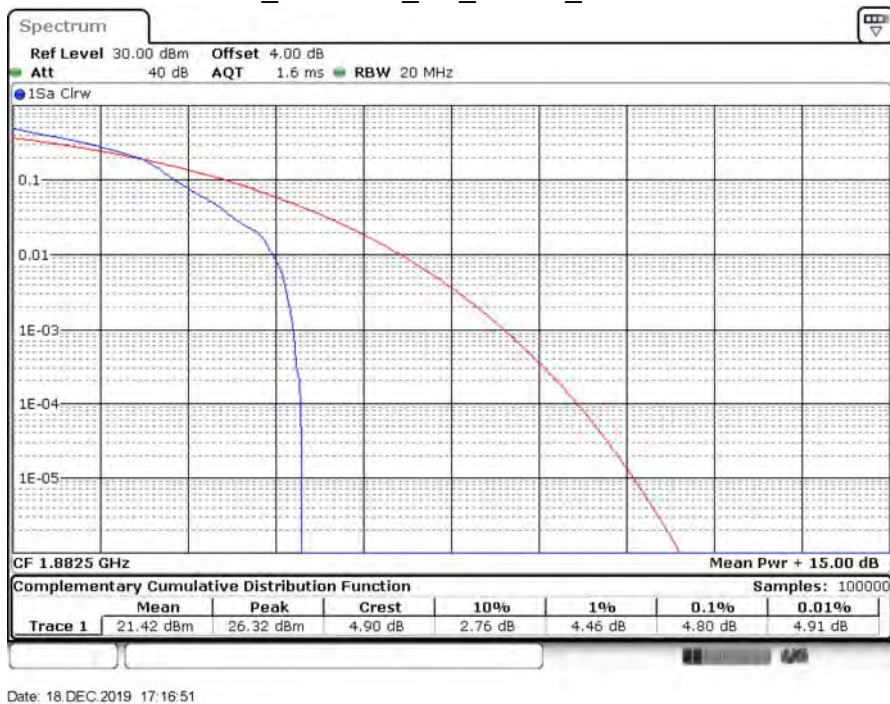


Date: 18 DEC 2019 17:13:29

B25_CH26365_5M_1RB12_QPSK



B25_CH26365_5M_1RB12_16-QAM



B25_CH26665_5M_1RB12_QPSK



Date: 18 DEC 2019 17:28:14

B25_CH26665_5M_1RB12_16-QAM

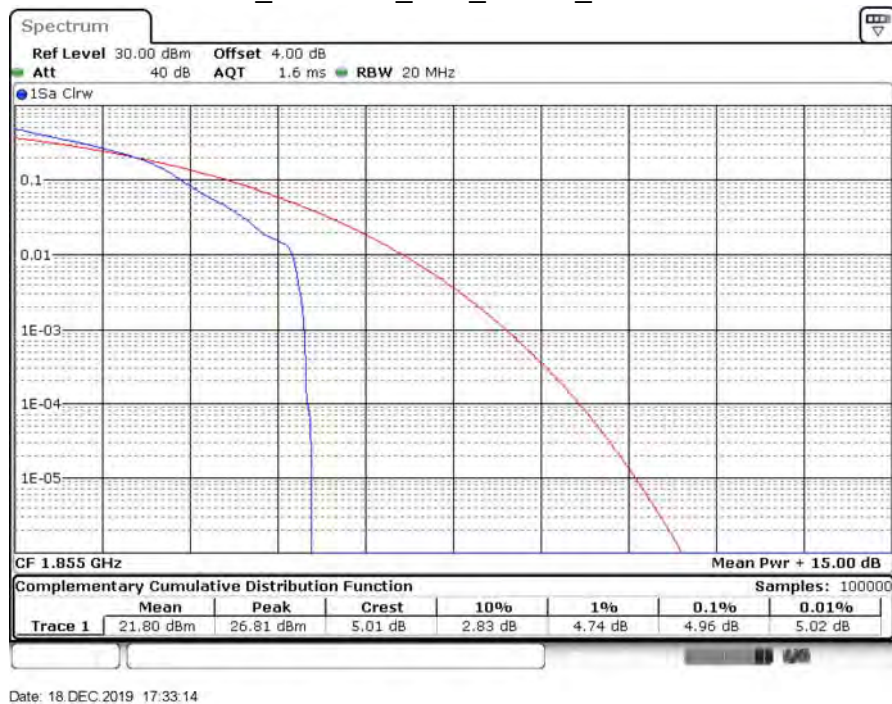


Date: 18 DEC 2019 17:28:05

B25_CH26090_10M_1RB24_QPSK



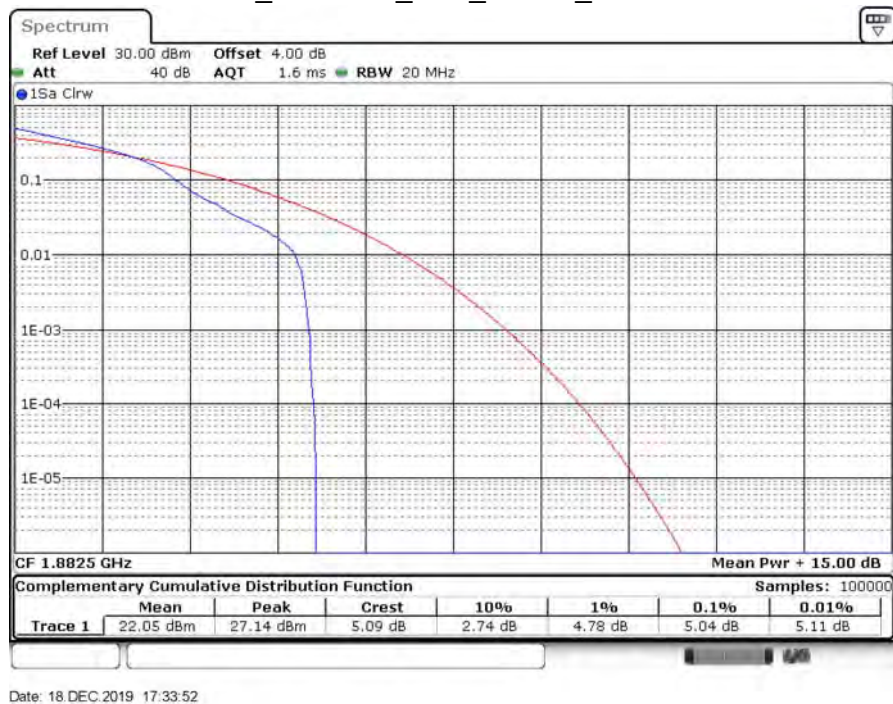
B25_CH26090_10M_1RB24_16-QAM



B25_CH26365_10M_1RB24_QPSK



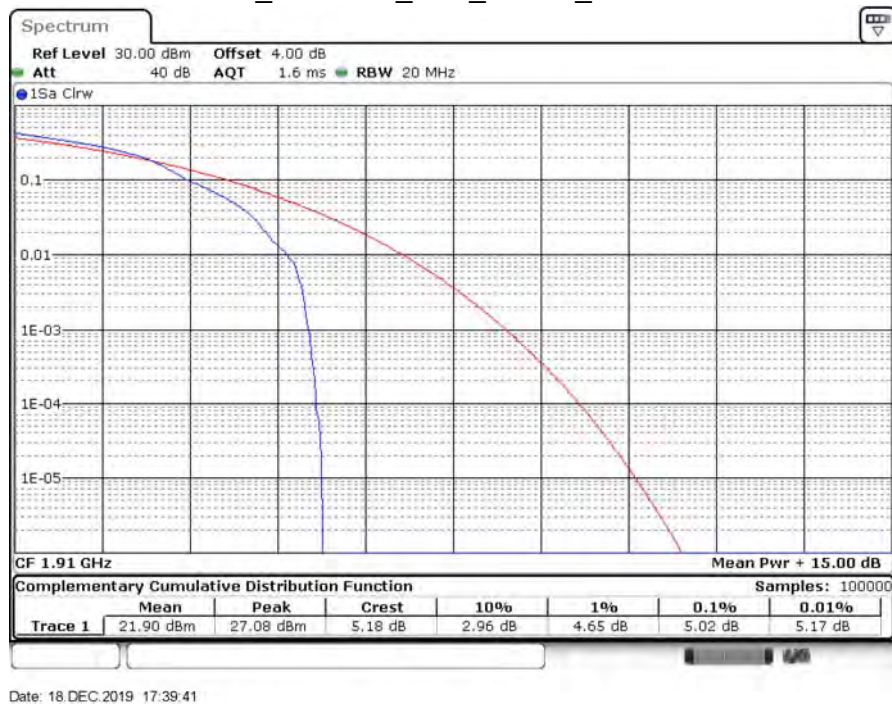
B25_CH26365_10M_1RB24_16-QAM



B25_CH26640_10M_1RB24_QPSK



B25_CH26640_10M_1RB24_16-QAM



B25_CH26115_15M_1RB37_QPSK



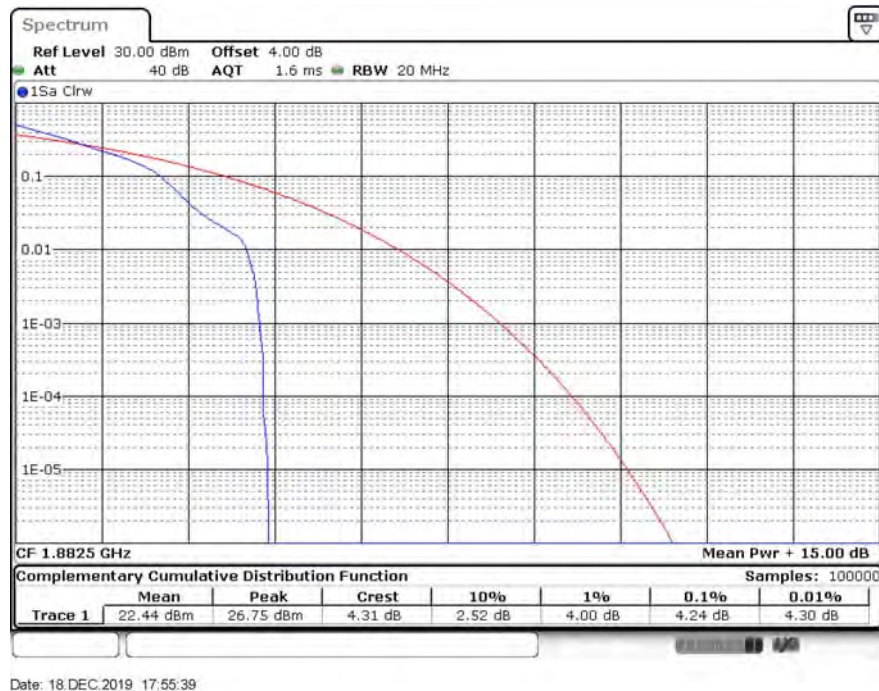
Date: 18 DEC 2019 17:41:18

B25_CH26115_15M_1RB37_16-QAM



Date: 18 DEC 2019 17:54:30

B25_CH26365_15M_1RB37_QPSK



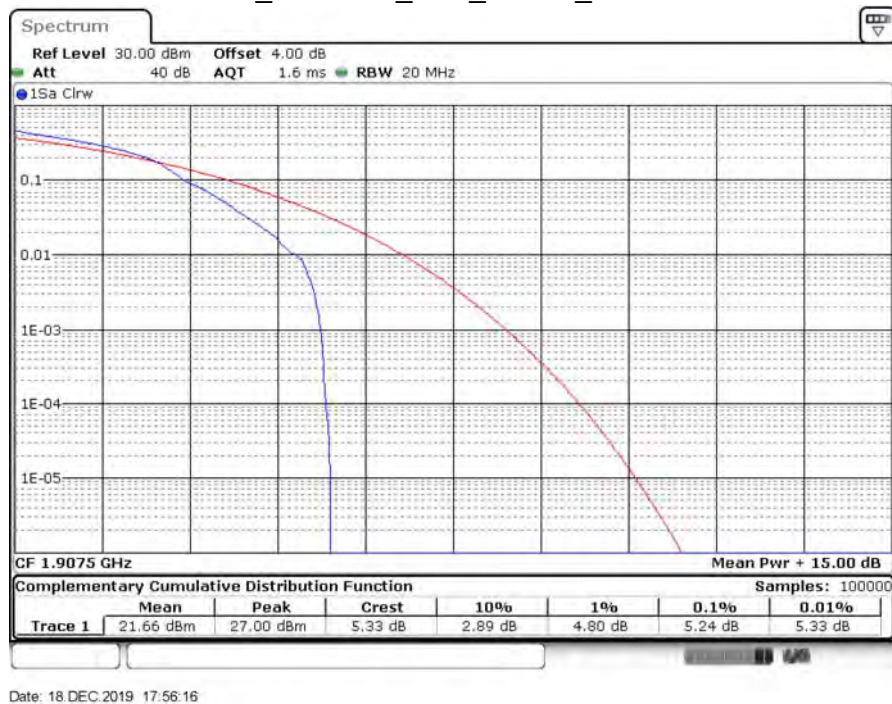
B25_CH26365_15M_1RB37_16-QAM



B25_CH26615_15M_1RB37_QPSK



B25_CH26615_15M_1RB37_16-QAM



B25_CH26140_20M_1RB49_QPSK



Date: 18 DEC 2019 17:59:28

B25_CH26140_20M_1RB49_16-QAM



Date: 18 DEC 2019 17:59:40

B25_CH26365_20M_1RB49_QPSK



Date: 18 DEC 2019 18:51:03

B25_CH26365_20M_1RB49_16-QAM

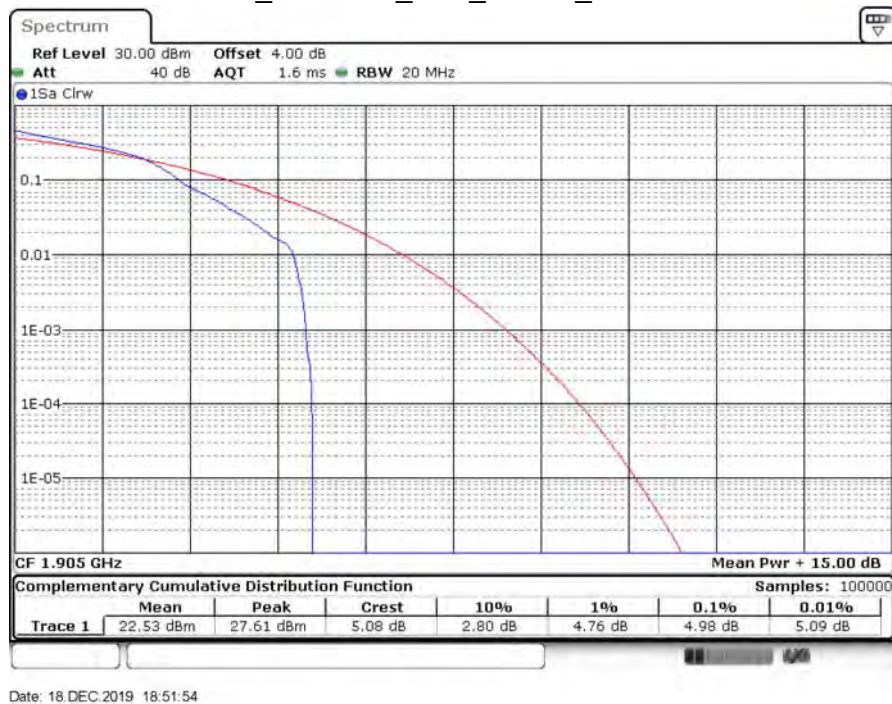


Date: 18 DEC 2019 18:38:26

B25_CH26590_20M_1RB49_QPSK



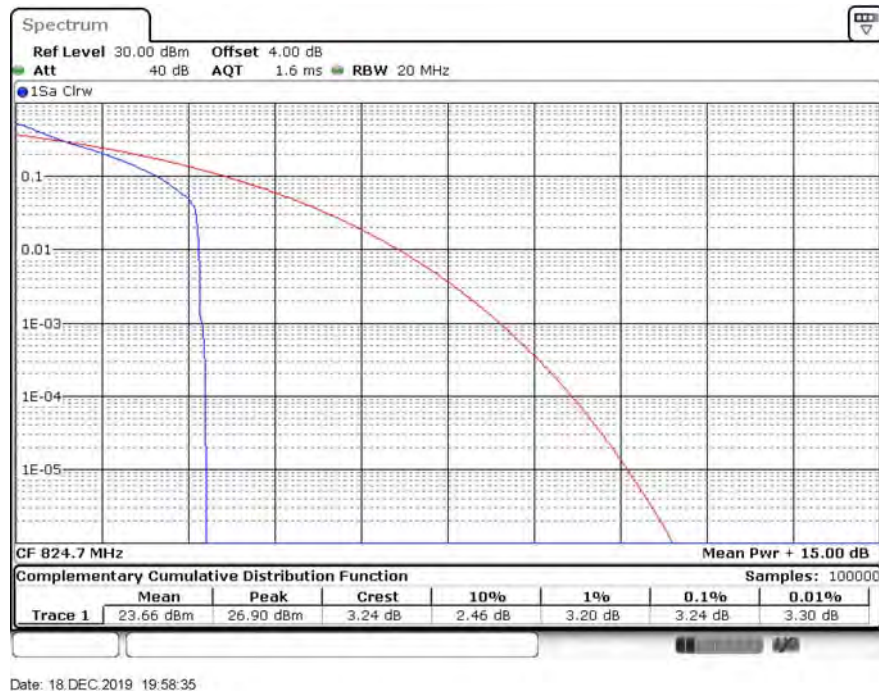
B25_CH26590_20M_1RB49_16-QAM



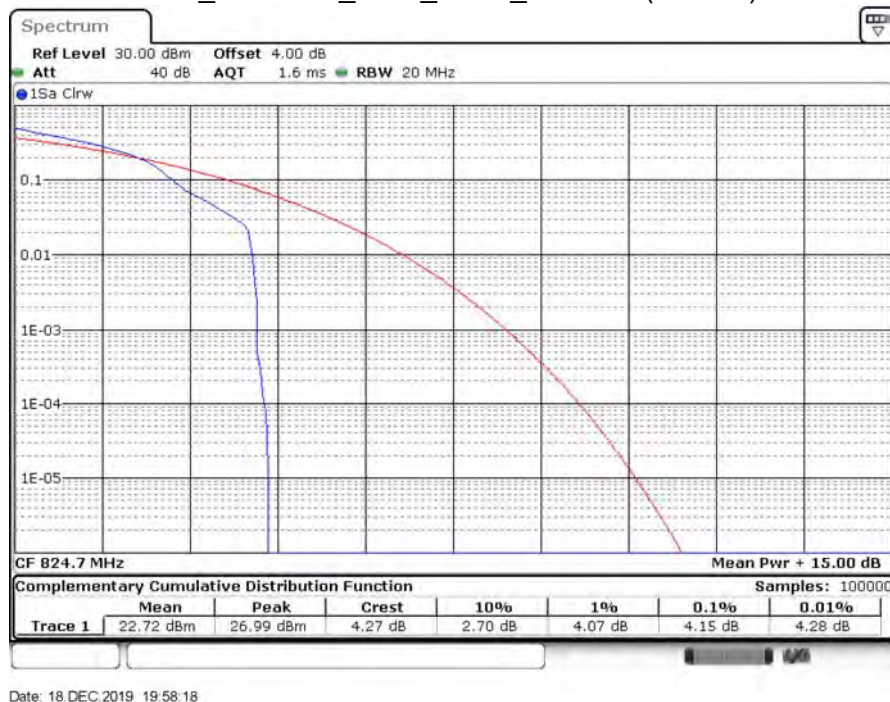
Product	Module		
Test Item	Peak To Average Ratio (Part 22)		
Test Mode	Mode 7: LTE Band 26		
Date of Test	2019/12/18	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	59%RH

Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	26697	814.7	QPSK	26.90	23.66	3.24
			16-QAM	26.99	22.72	4.15
	26865	831.5	QPSK	26.22	23.07	3.15
			16-QAM	26.80	22.83	3.96
	27033	848.3	QPSK	26.55	23.18	3.33
			16-QAM	26.45	22.29	4.13
3M	26705	815.5	QPSK	26.54	23.38	3.20
			16-QAM	26.11	22.35	3.78
	26865	831.5	QPSK	26.02	22.91	3.13
			16-QAM	26.48	22.47	4.02
	27025	847.5	QPSK	26.37	23.22	3.20
			16-QAM	26.43	22.37	4.04
5M	26715	816.5	QPSK	26.43	23.15	3.26
			16-QAM	26.25	22.32	3.98
	26865	831.5	QPSK	26.03	22.86	3.17
			16-QAM	26.18	22.24	3.98
	27015	846.5	QPSK	26.24	23.31	2.93
			16-QAM	25.87	22.25	3.61
10M	26740	819	QPSK	26.36	23.25	3.13
			16-QAM	26.40	22.49	3.91
	26865	831.5	QPSK	26.15	23.02	3.11
			16-QAM	26.52	22.46	4.04
	26990	844	QPSK	26.74	23.51	3.20
			16-QAM	26.54	22.37	4.13
15M	26765	821.5	QPSK	25.99	23.02	3.00
			16-QAM	25.79	22.08	3.72
	26865	831.5	QPSK	26.00	22.81	3.22
			16-QAM	26.55	22.46	4.07
	26965	841.5	QPSK	26.55	23.18	3.39
			16-QAM	26.32	22.21	4.04

B26_CH26797_1.4M_1RB2_QPSK (Part 22)



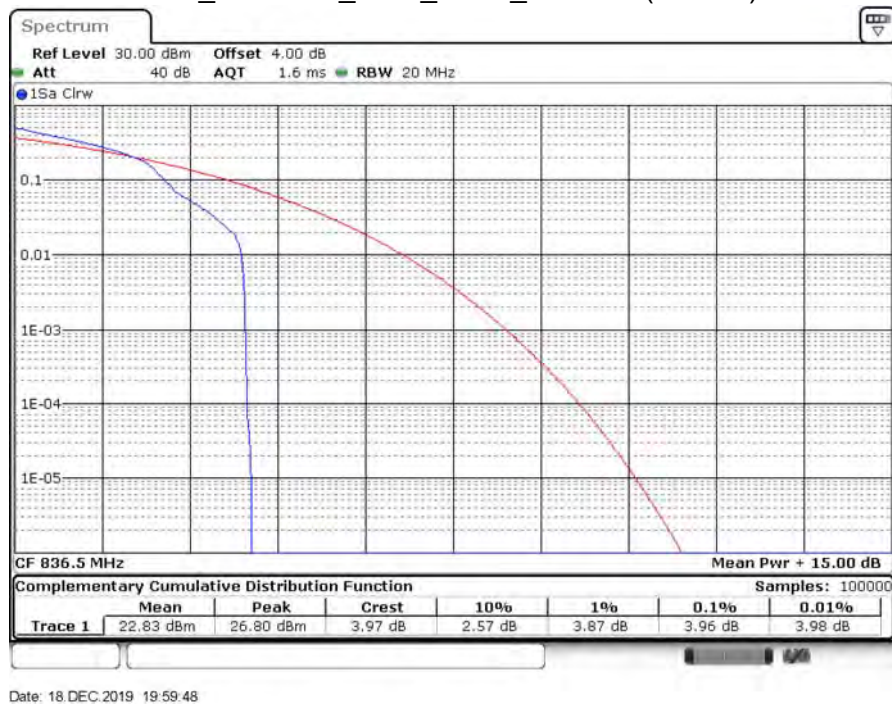
B26_CH26797_1.4M_1RB2_16-QAM (Part 22)



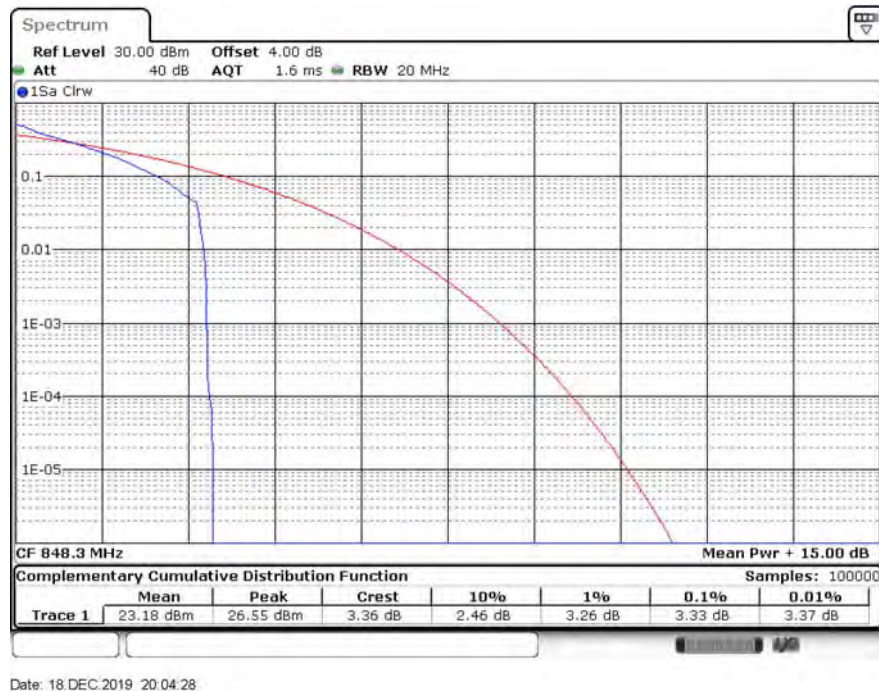
B26_CH26915_1.4M_1RB2_QPSK (Part 22)



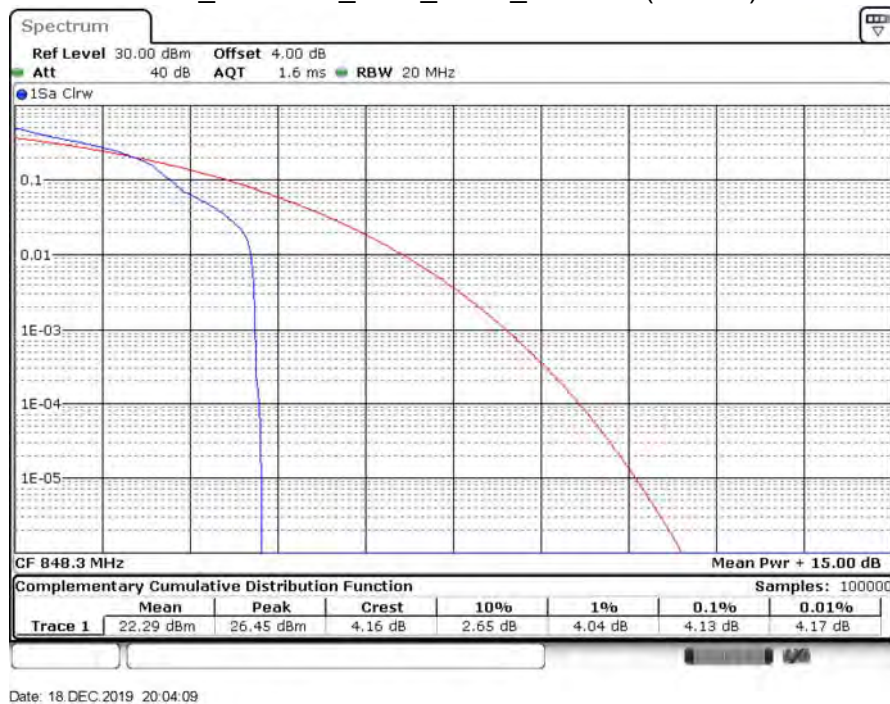
B26_CH26915_1.4M_1RB2_16-QAM (Part 22)



B26_CH27033_1.4M_1RB2_QPSK (Part 22)



B26_CH27033_1.4M_1RB2_16-QAM (Part 22)



B26_CH26805_3M_1RB7_QPSK (Part 22)



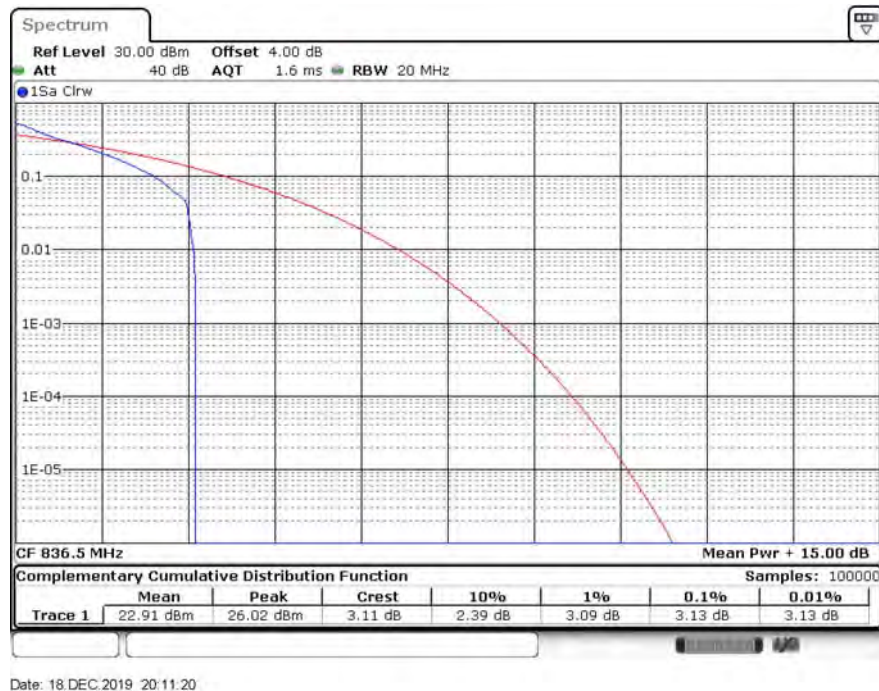
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B26_CH26805_3M_1RB7_16-QAM (Part 22)

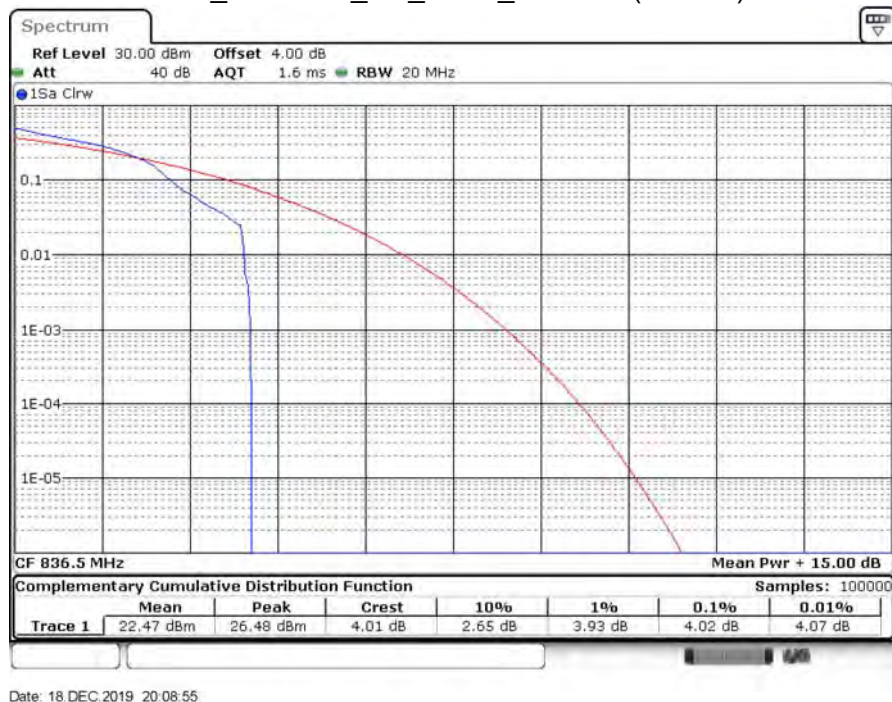


Date: 18 DEC 2019 20:08:05

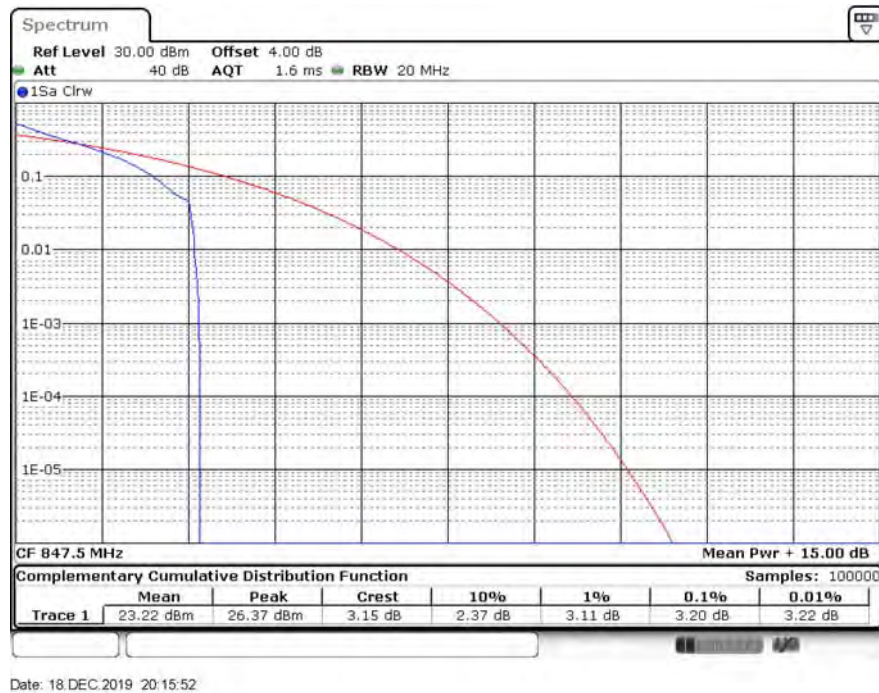
B26_CH26915_3M_1RB7_QPSK (Part 22)



B26_CH26915_3M_1RB7_16-QAM (Part 22)



B26_CH27025_3M_1RB7_QPSK (Part 22)



B26_CH27025_3M_1RB7_16-QAM (Part 22)

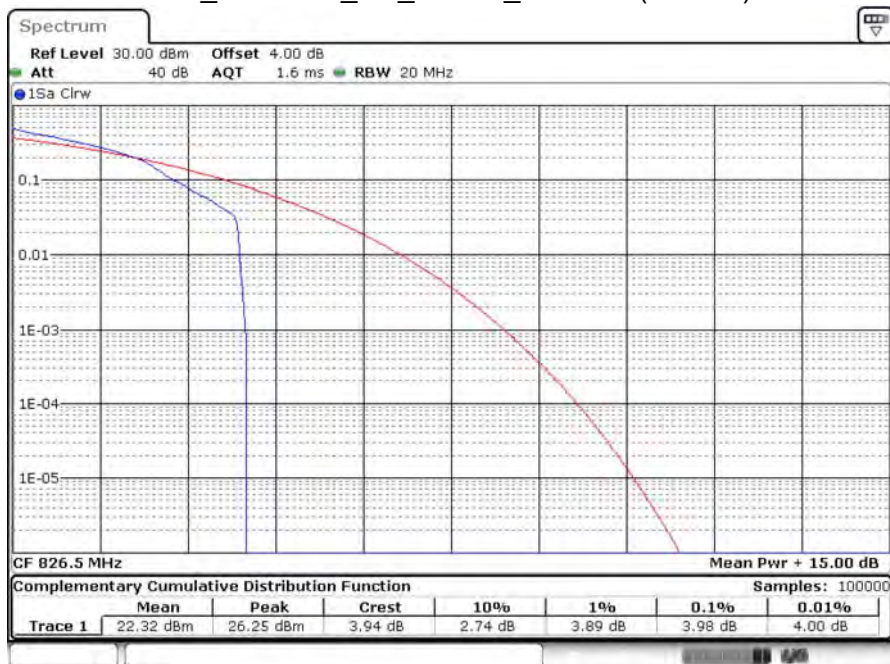


B26_CH26815_5M_1RB12_QPSK (Part 22)



Date: 18 DEC 2019 20:21:19

B26_CH26815_5M_1RB12_16-QAM (Part 22)



Date: 18 DEC 2019 20:19:36

B26_CH26915_5M_1RB12_QPSK (Part 22)



Date: 18 DEC 2019 20:22:59

B26_CH26915_5M_1RB12_16-QAM (Part 22)

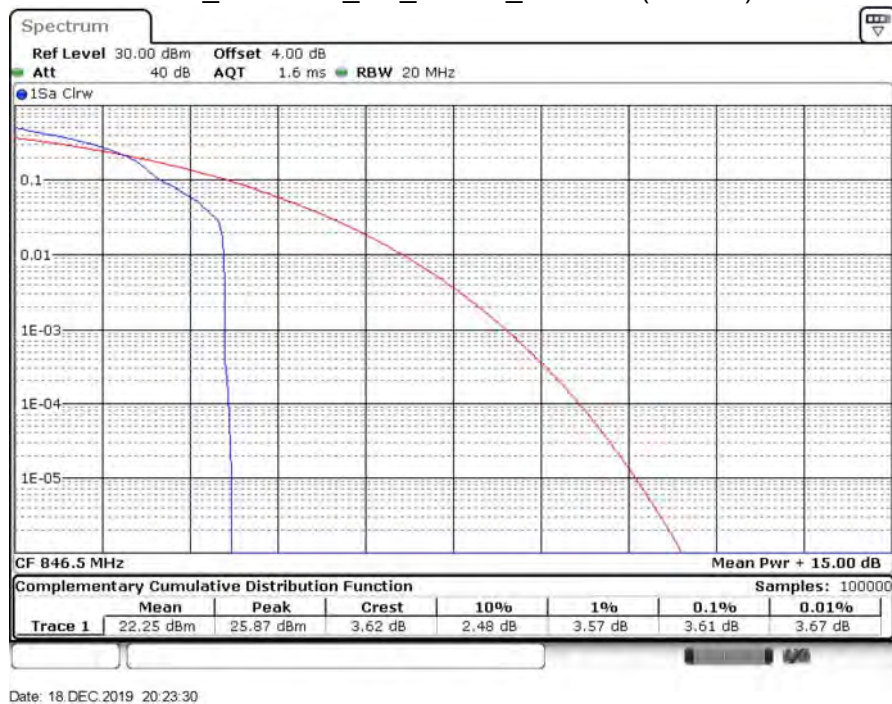


Date: 18 DEC 2019 20:23:10

B26_CH27015_5M_1RB12_QPSK (Part 22)



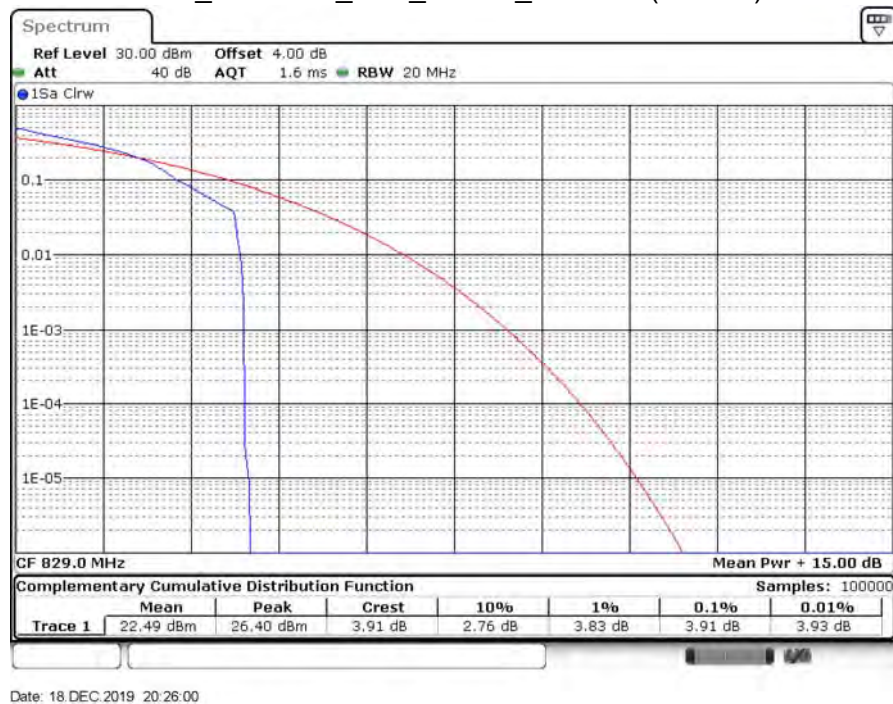
B26_CH27015_5M_1RB12_16-QAM (Part 22)



B26_CH26840_10M_1RB24_QPSK (Part 22)



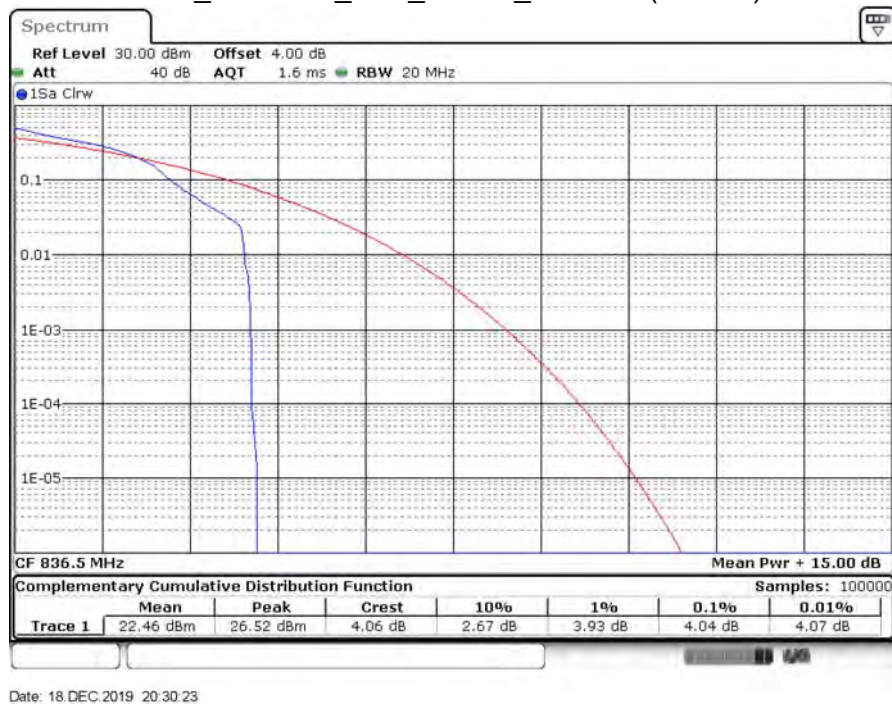
B26_CH26840_10M_1RB24_16-QAM (Part 22)



B26_CH26915_10M_1RB24_QPSK (Part 22)



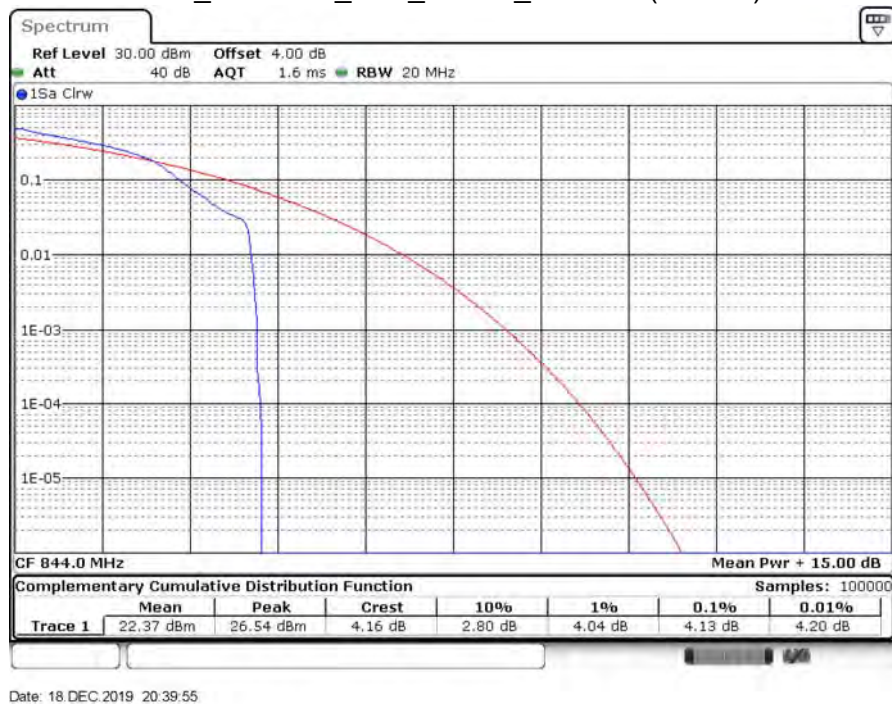
B26_CH26915_10M_1RB24_16-QAM (Part 22)



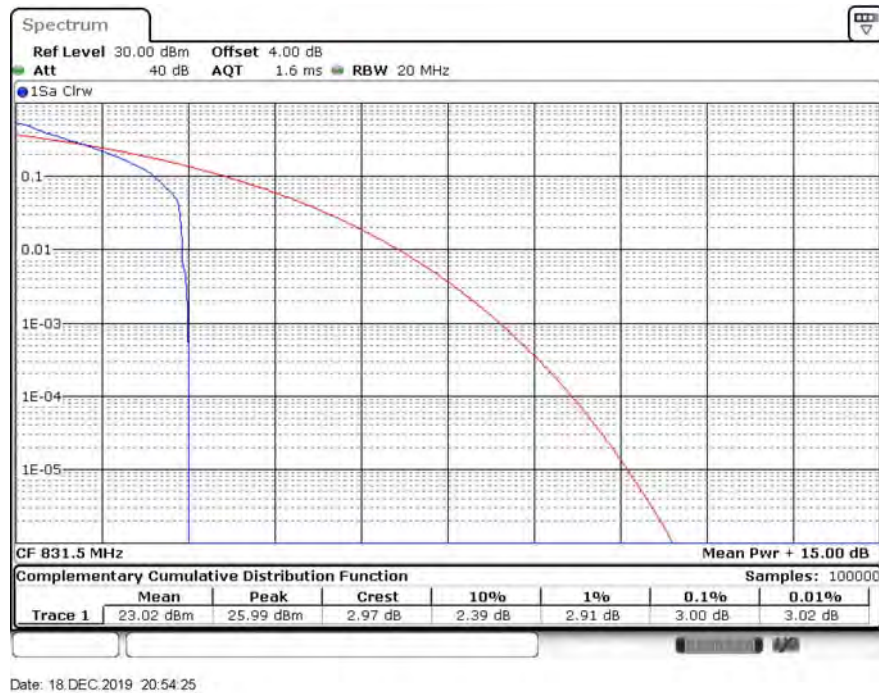
B26_CH26990_10M_1RB24_QPSK (Part 22)_



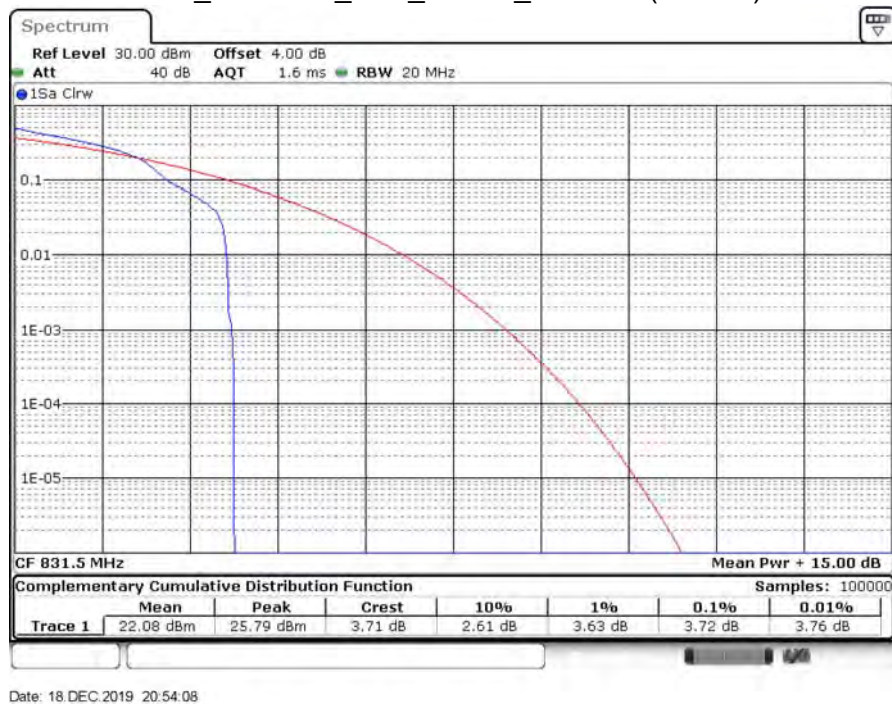
B26_CH26990_10M_1RB24_16-QAM (Part 22)



B26_CH26865_15M_1RB37_QPSK (Part 22)



B26_CH26865_15M_1RB37_16-QAM (Part 22)

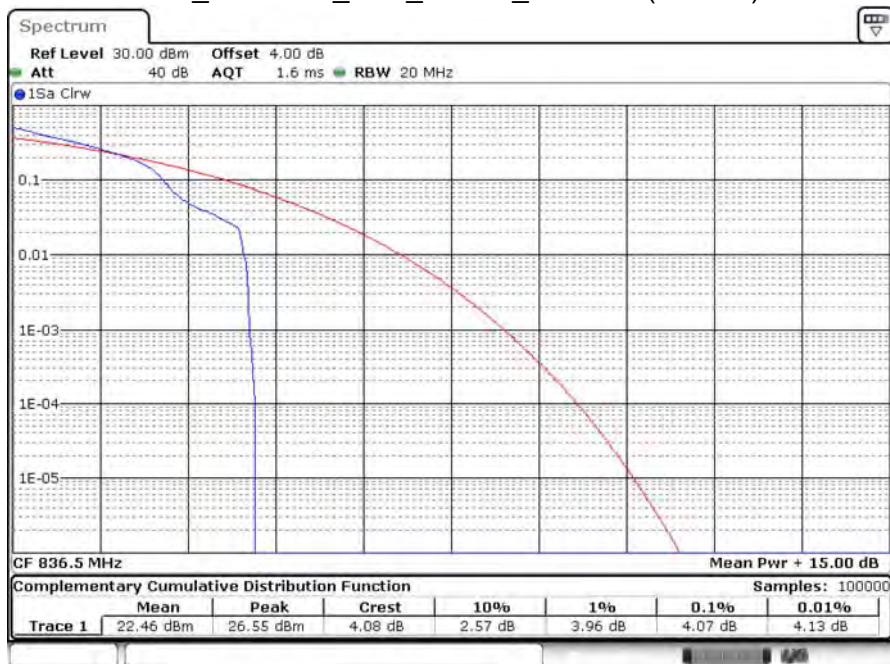


B26_CH26915_15M_1RB37_QPSK (Part 22)



Date: 18 DEC 2019 20:58:24

B26_CH26915_15M_1RB37_16-QAM (Part 22)

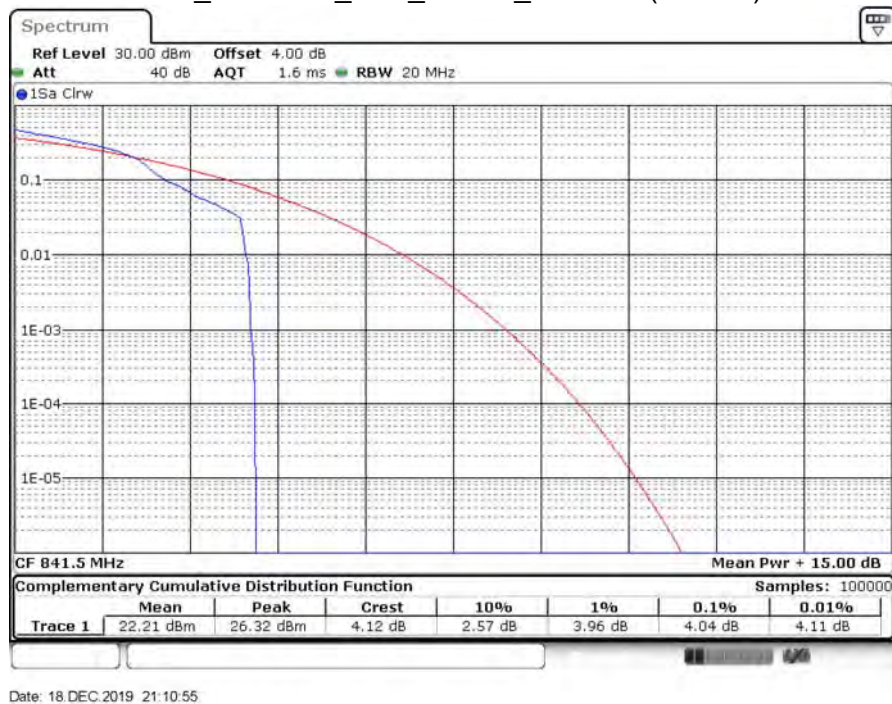


Date: 18 DEC 2019 21:03:21

B26_CH26965_15M_1RB37_QPSK (Part 22)



B26_CH26965_15M_1RB37_16-QAM (Part 22)



Product	Module		
Test Item	Peak To Average Ratio (Part 90)		
Test Mode	Mode 7: LTE Band 26		
Date of Test	2019/12/18	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	59%RH

Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	26697	814.7	QPSK	26.66	23.68	3.00
			16-QAM	26.58	22.60	3.91
	26740	819	QPSK	26.20	23.25	2.96
			16-QAM	26.39	22.61	3.76
	26783	823.3	QPSK	26.76	23.48	3.17
			16-QAM	26.46	22.40	4.02
3M	26705	815.5	QPSK	26.19	23.22	2.98
			16-QAM	25.82	22.03	3.80
	26740	819	QPSK	26.07	23.15	2.96
			16-QAM	26.34	22.51	3.85
	26775	822.5	QPSK	26.60	23.49	3.11
			16-QAM	26.03	21.94	4.07
5M	26715	816.5	QPSK	26.28	23.31	3.00
			16-QAM	25.91	22.21	3.72
	26740	819	QPSK	26.04	23.04	2.98
			16-QAM	25.87	22.35	3.52
	26765	821.5	QPSK	26.50	23.30	0.20
			16-QAM	26.18	22.50	3.72
10M	26740	819	QPSK	26.26	23.24	3.04
			16-QAM	26.04	22.21	3.80

B26_CH26697_1.4M_1RB2_QPSK (Part 90)



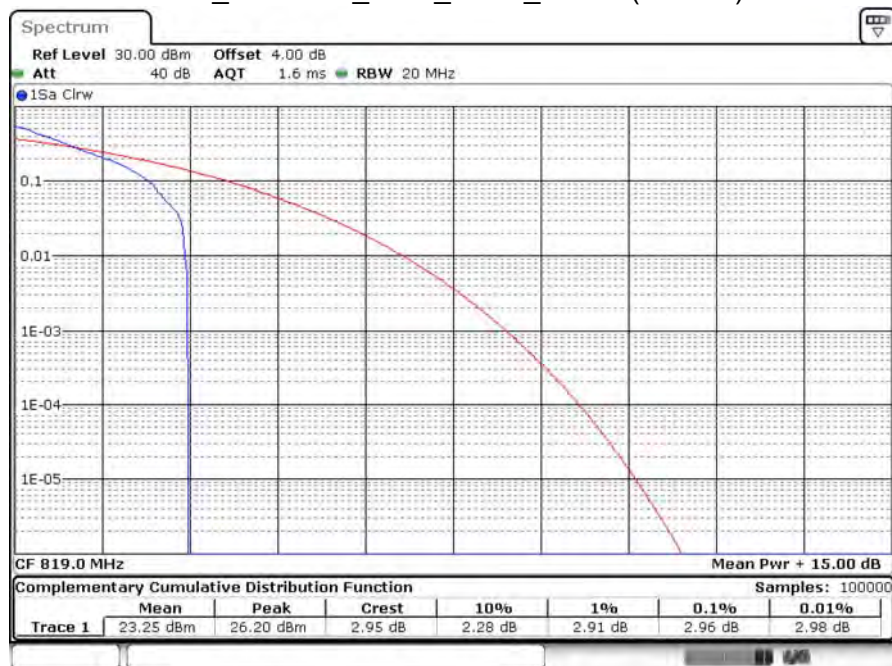
Date: 18 DEC 2019 19:24:14

B26_CH26697_1.4M_1RB2_16-QAM (Part 90)



Date: 18 DEC 2019 19:24:26

B26_CH26740_1.4M_1RB2_QPSK (Part 90)



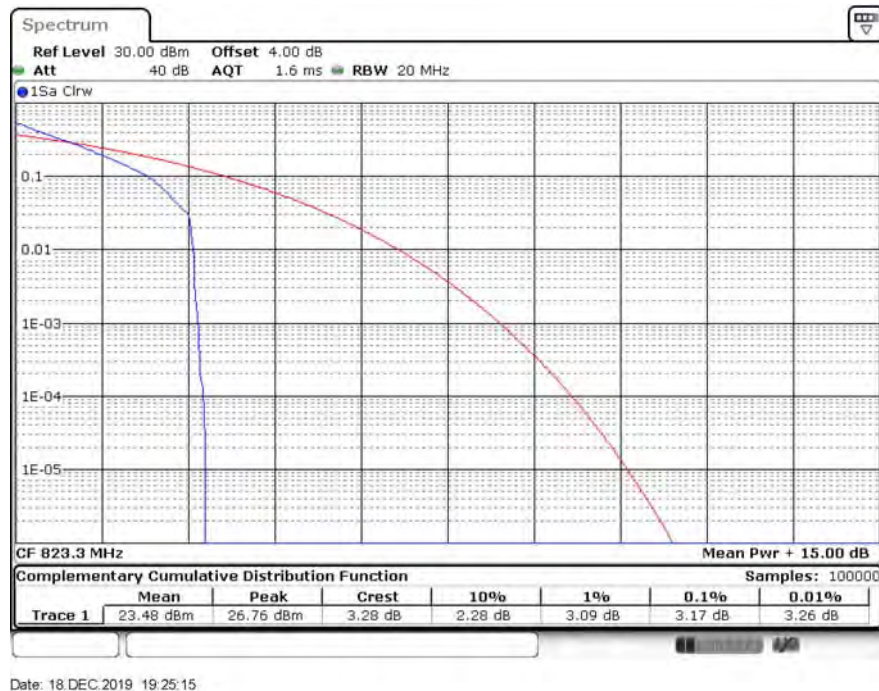
Date: 18 DEC.2019 19:24:53

B26_CH26740_1.4M_1RB2_16-QAM (Part 90)

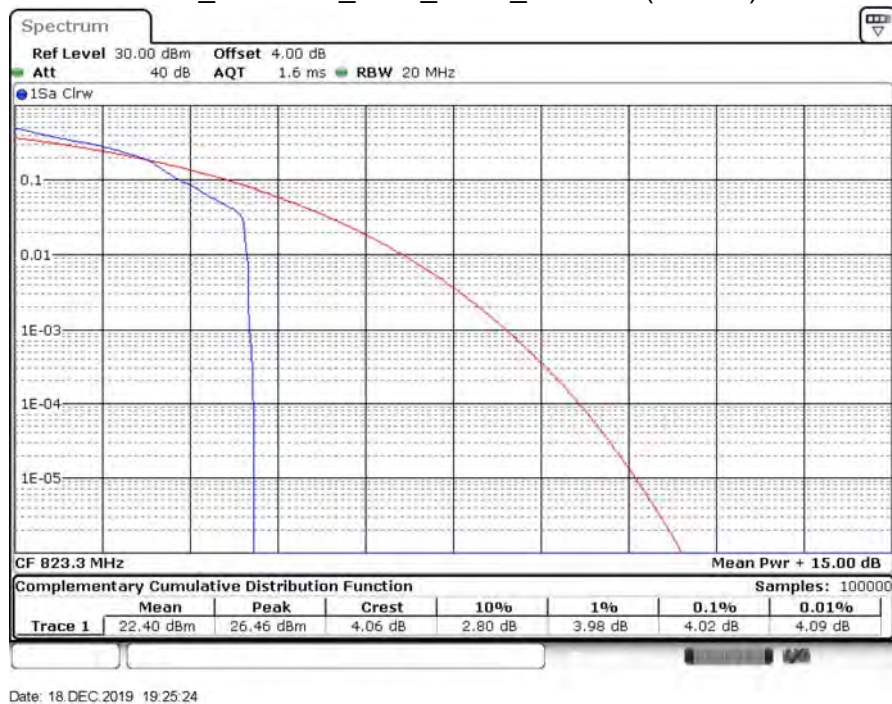


Date: 18 DEC.2019 19:24:40

B26_CH26783_1.4M_1RB2_QPSK (Part 90)



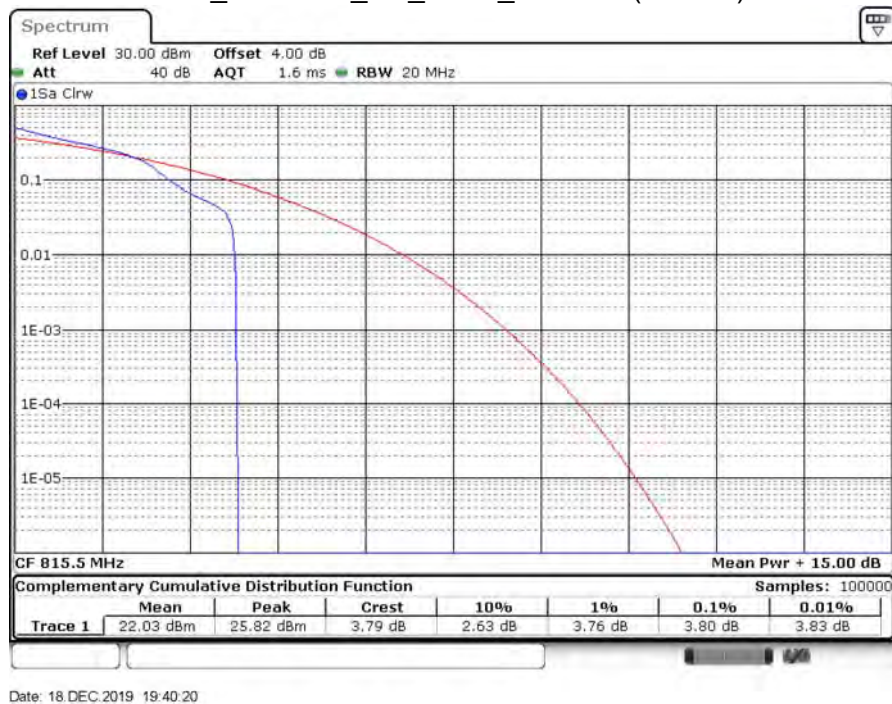
B26_CH26783_1.4M_1RB2_16-QAM (Part 90)



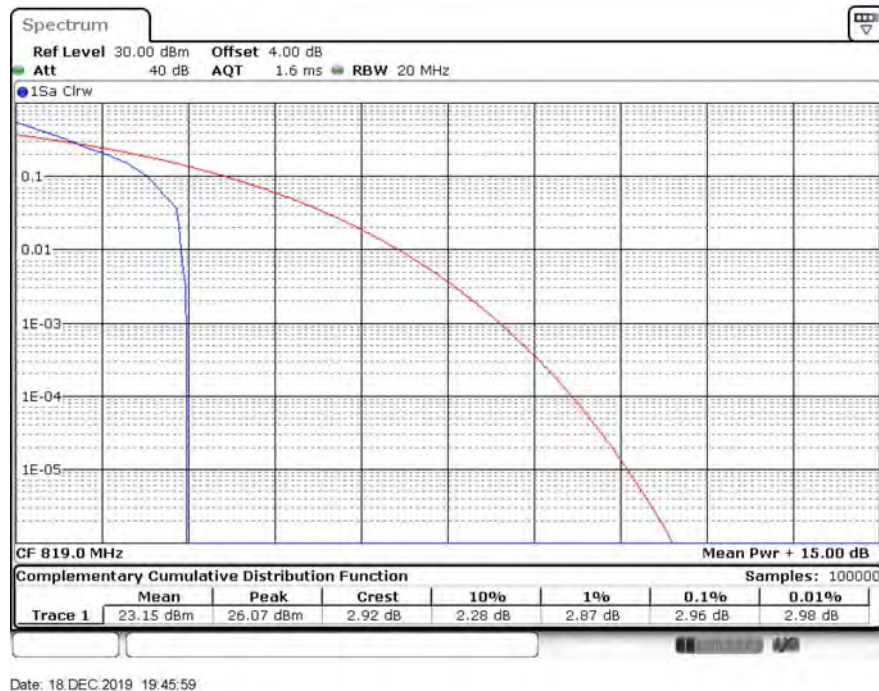
B26_CH26705_3M_1RB7_QPSK (Part 90)



B26_CH26705_3M_1RB7_16-QAM (Part 90)



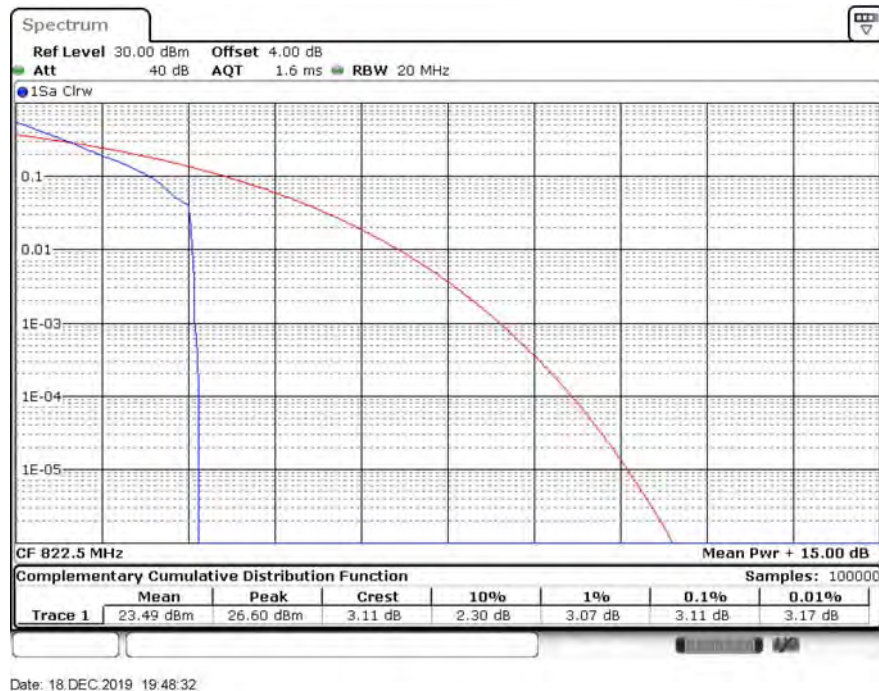
B26_CH26740_3M_1RB7_QPSK (Part 90)



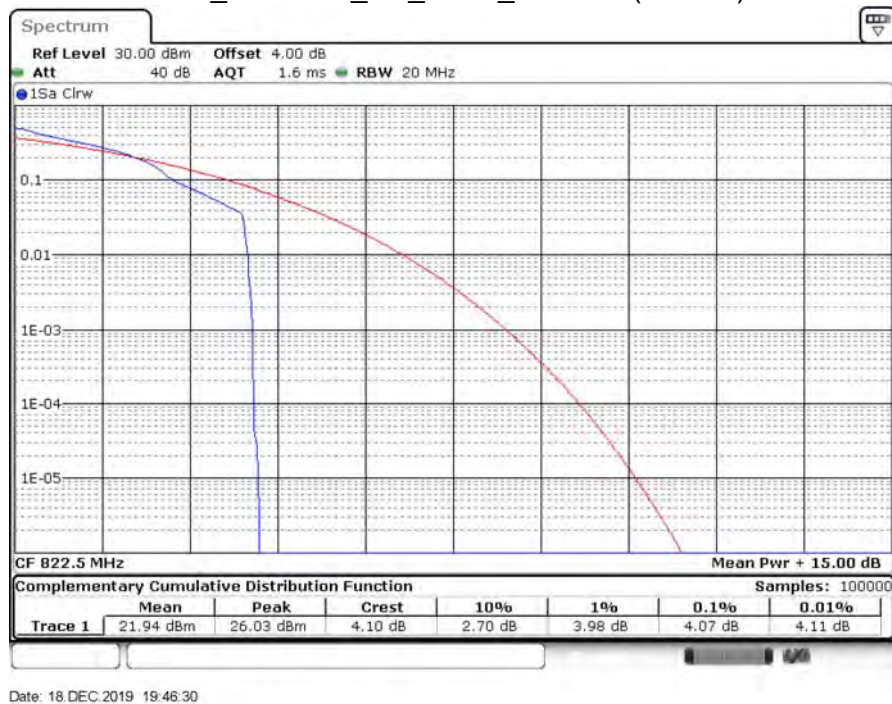
B26_CH26740_3M_1RB7_16-QAM (Part 90)



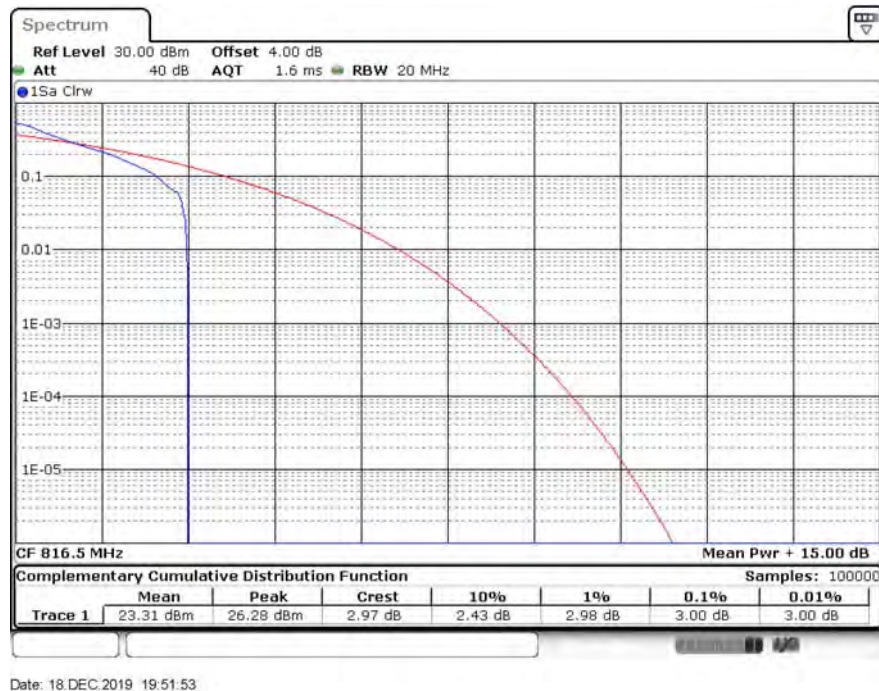
B26_CH26775_3M_1RB7_QPSK (Part 90)



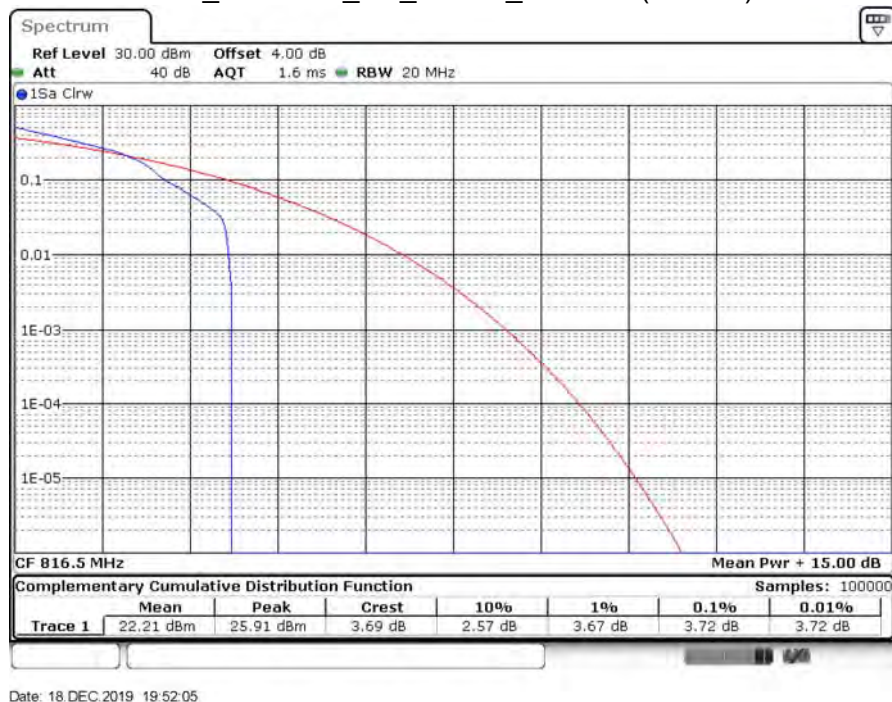
B26_CH26775_3M_1RB7_16-QAM (Part 90)



B26_CH26715_5M_1RB12_QPSK (Part 90)



B26_CH26715_5M_1RB12_16-QAM (Part 90)



B26_CH26740_5M_1RB12_QPSK (Part 90)



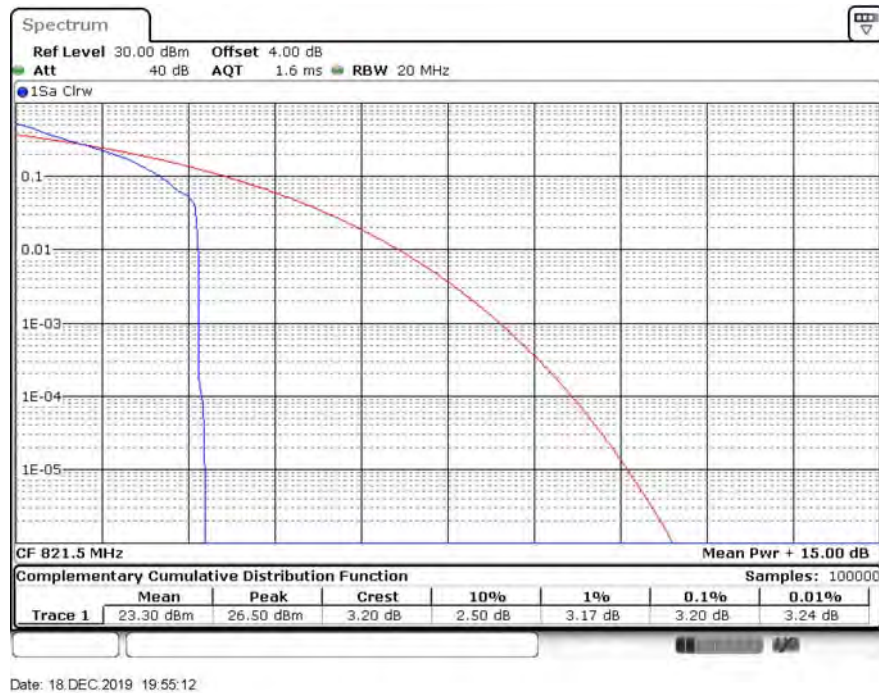
Date: 18 DEC 2019 19:54:51

B26_CH26740_5M_1RB12_16-QAM (Part 90)

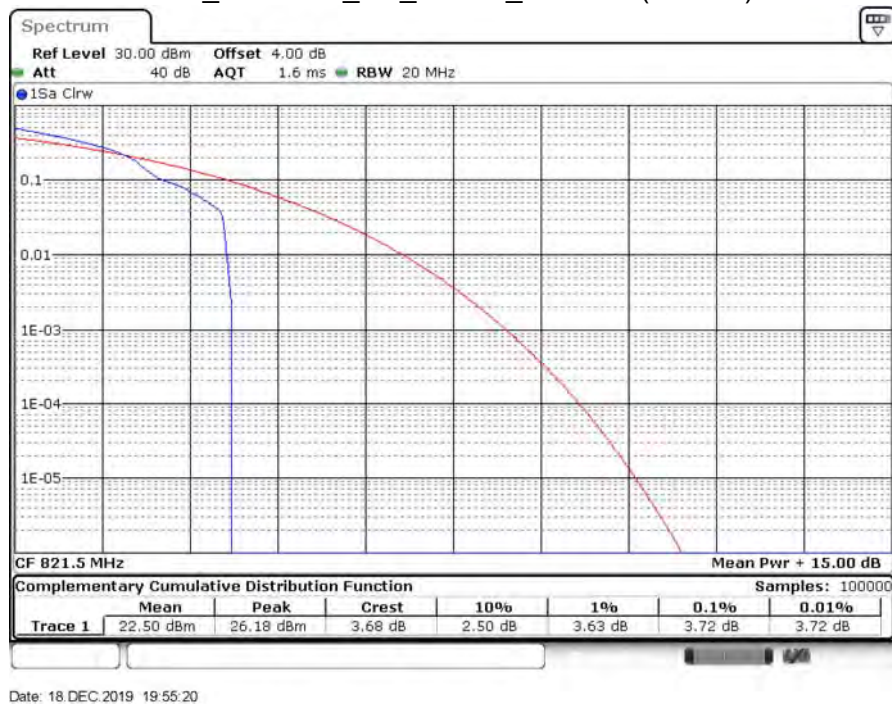


Date: 18 DEC 2019 19:54:40

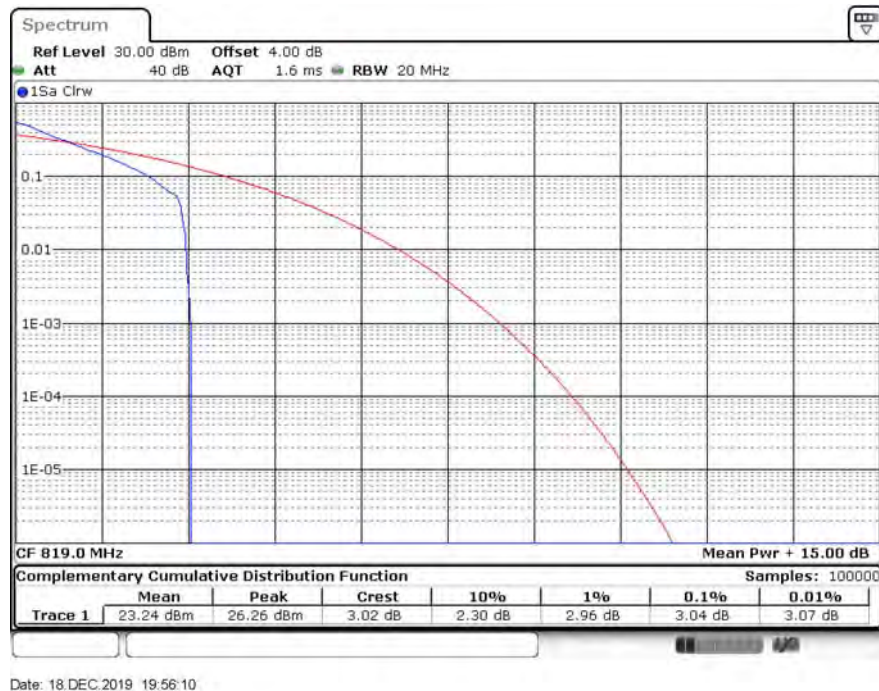
B26_CH26765_5M_1RB12_QPSK (Part 90)



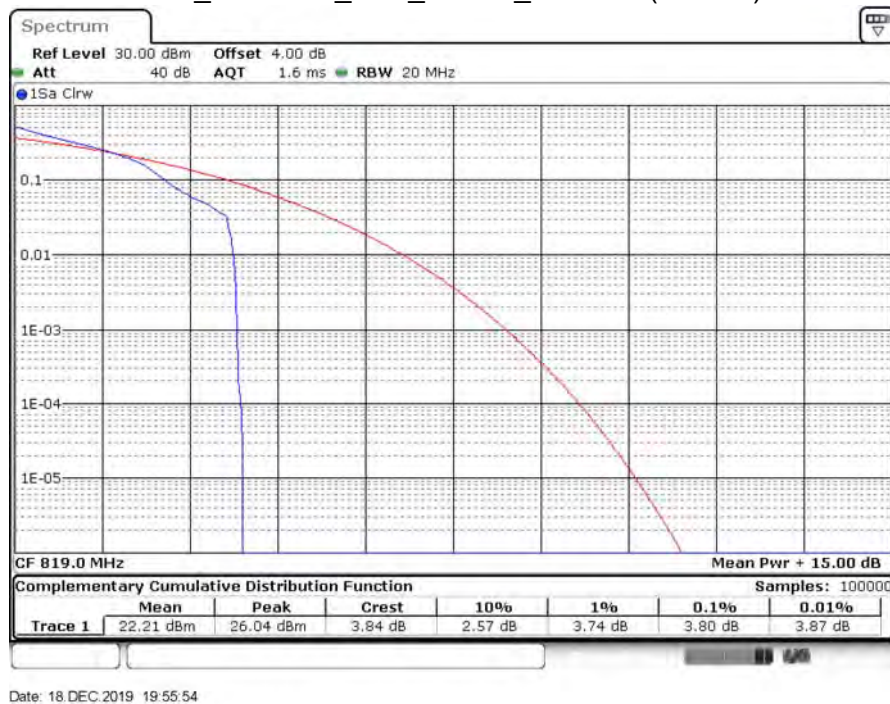
B26_CH26765_5M_1RB12_16-QAM (Part 90)



B26_CH26740_10M_1RB24_QPSK (Part 90)



B26_CH26740_10M_1RB24_16-QAM (Part 90)

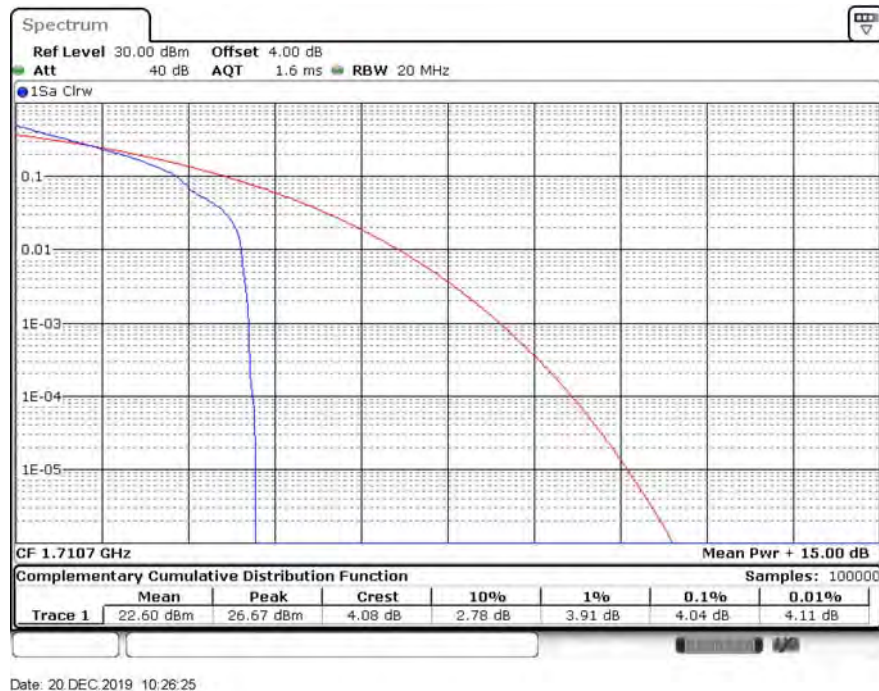


Product	Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 8: LTE Band 66		
Date of Test	2019/12/20	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	59%RH

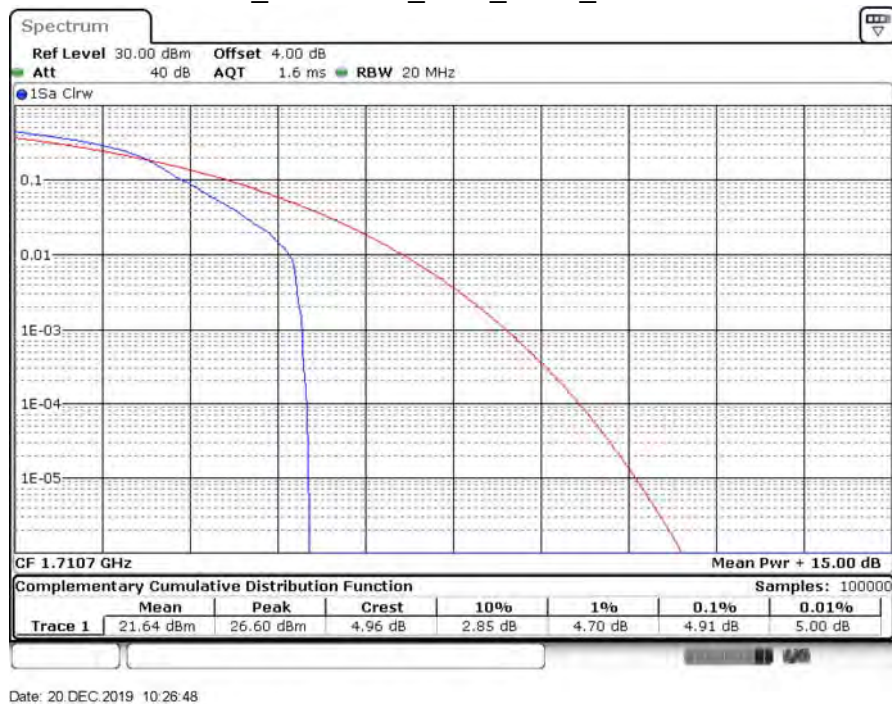
Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	131979	1710.7	QPSK	26.67	22.60	4.04
			16-QAM	26.60	21.64	4.91
	132322	1745	QPSK	26.82	22.48	4.28
			16-QAM	26.87	21.63	5.17
	132665	1779.3	QPSK	26.50	22.87	3.61
			16-QAM	26.53	21.77	4.72
3M	131987	1711.5	QPSK	26.43	22.05	4.39
			16-QAM	26.74	21.76	4.96
	132322	1745	QPSK	26.57	22.14	4.39
			16-QAM	26.48	20.88	5.50
	132657	1778.5	QPSK	26.26	22.43	3.85
			16-QAM	26.33	21.08	5.22
5M	131997	1712.5	QPSK	26.48	22.12	4.35
			16-QAM	26.73	21.46	5.22
	132322	1745	QPSK	26.59	22.15	4.41
			16-QAM	26.50	20.96	5.50
	132647	1777.5	QPSK	26.30	22.19	4.09
			16-QAM	26.42	21.78	4.61
10M	132022	1715	QPSK	26.65	22.31	4.43
			16-QAM	26.96	21.73	5.17
	132322	1745	QPSK	26.61	22.16	4.39
			16-QAM	26.76	21.38	5.24
	132622	1775	QPSK	26.51	22.31	4.13
			16-QAM	26.57	21.44	5.09

Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
15M	132047	1717.5	QPSK	26.77	22.14	4.52
			16-QAM	26.86	21.20	5.59
	132322	1745	QPSK	26.54	22.09	4.37
			16-QAM	26.62	21.52	5.02
	132597	1772.5	QPSK	26.65	22.35	4.24
			16-QAM	26.82	22.01	4.80
20M	132072	1720	QPSK	27.06	22.35	4.65
			16-QAM	26.93	21.10	5.67
	132322	1745	QPSK	26.57	22.05	4.41
			16-QAM	26.90	21.61	5.20
	132572	1770	QPSK	26.93	22.62	4.20
			16-QAM	27.09	22.03	5.00

B66_CH131979_1.4M_1RB2_QPSK



B66_CH131979_1.4M_1RB2_16-QAM



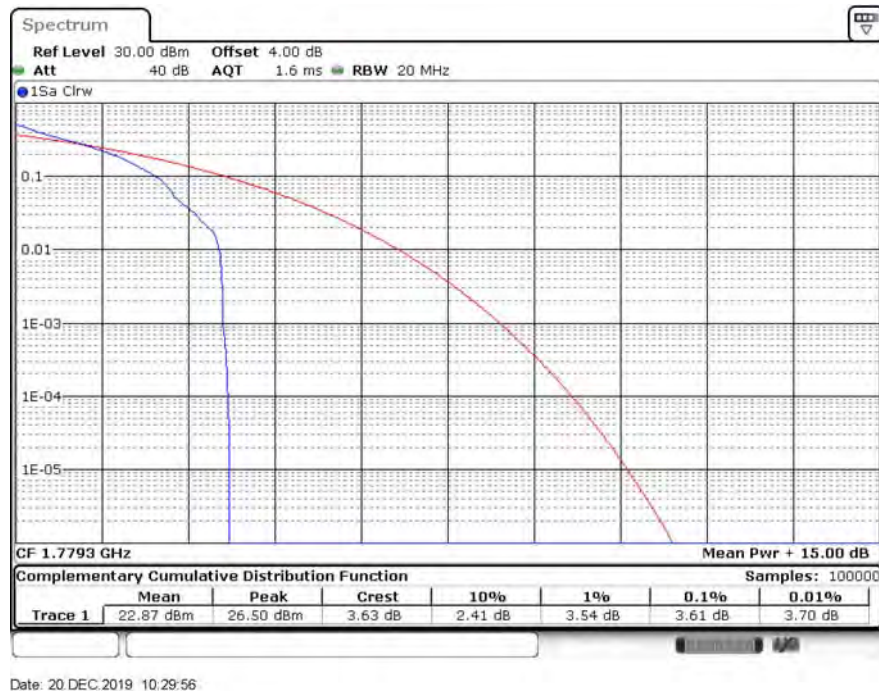
B66_CH132322_1.4M_1RB2_QPSK



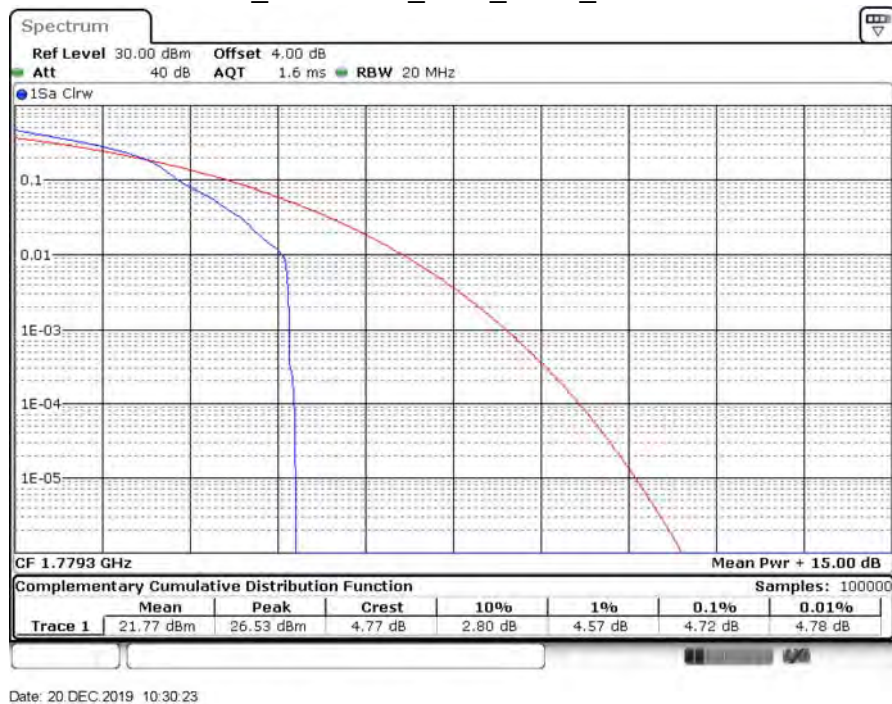
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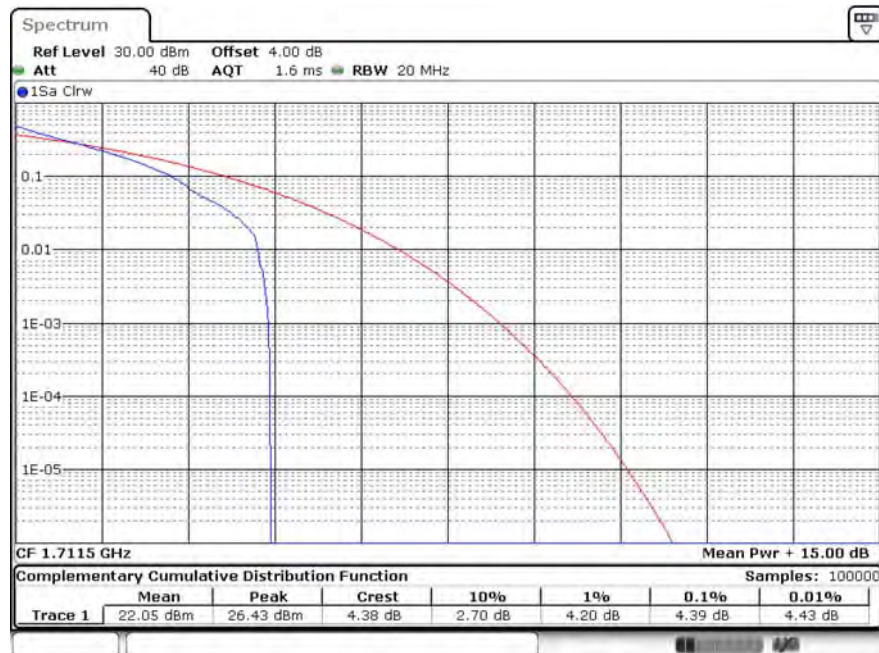
B66_CH132665_1.4M_1RB2_QPSK



B66_CH132665_1.4M_1RB2_16-QAM

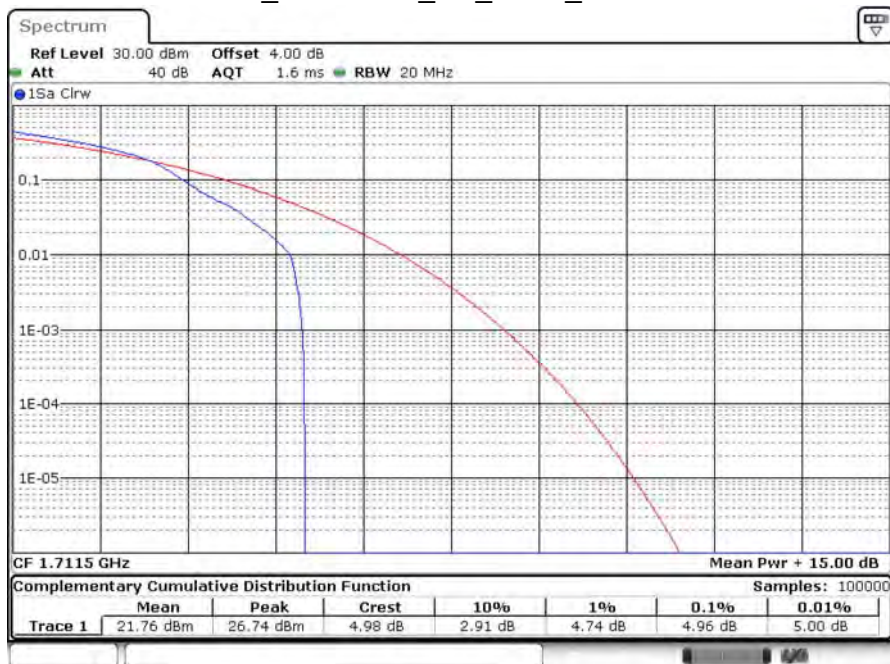


B66_CH131987_3M_1RB7_QPSK



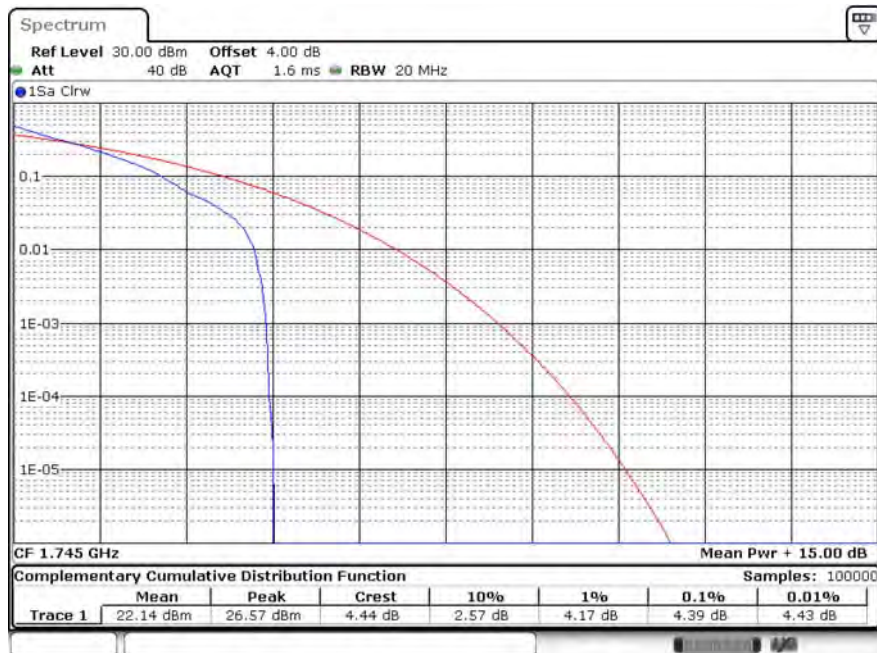
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B66_CH131987_3M_1RB7_16-QAM



Date: 20 DEC 2019 10:40:31

B66_CH132322_3M_1RB7_QPSK



Date: 20 DEC 2019 10:39:39

B66_CH132322_3M_1RB7_16-QAM



Date: 20 DEC 2019 10:39:48

B66_CH132657_3M_1RB7_QPSK



Date: 20 DEC 2019 10:39:18

B66_CH132657_3M_1RB7_16-QAM

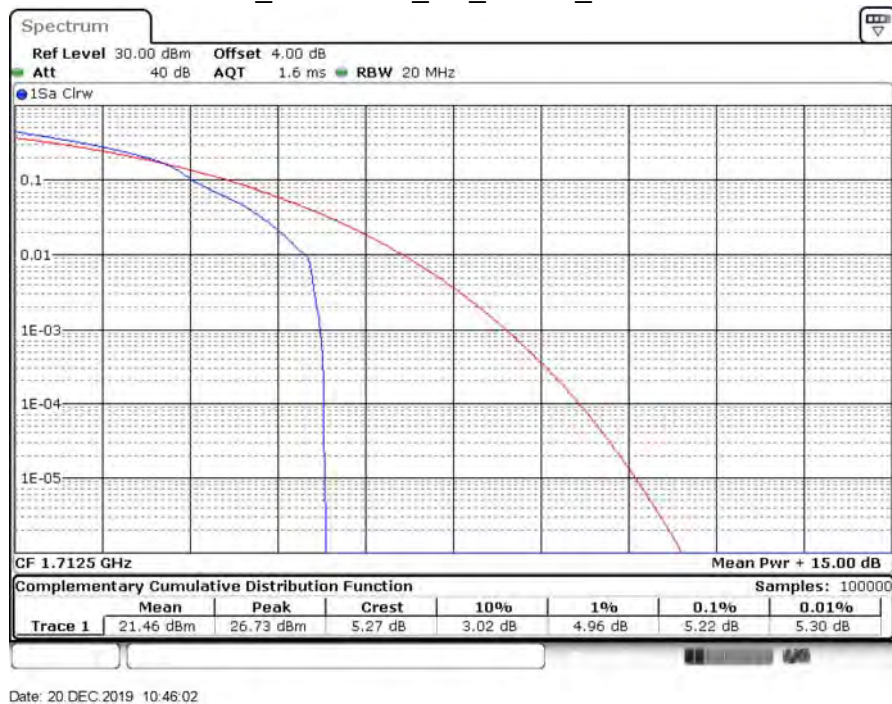


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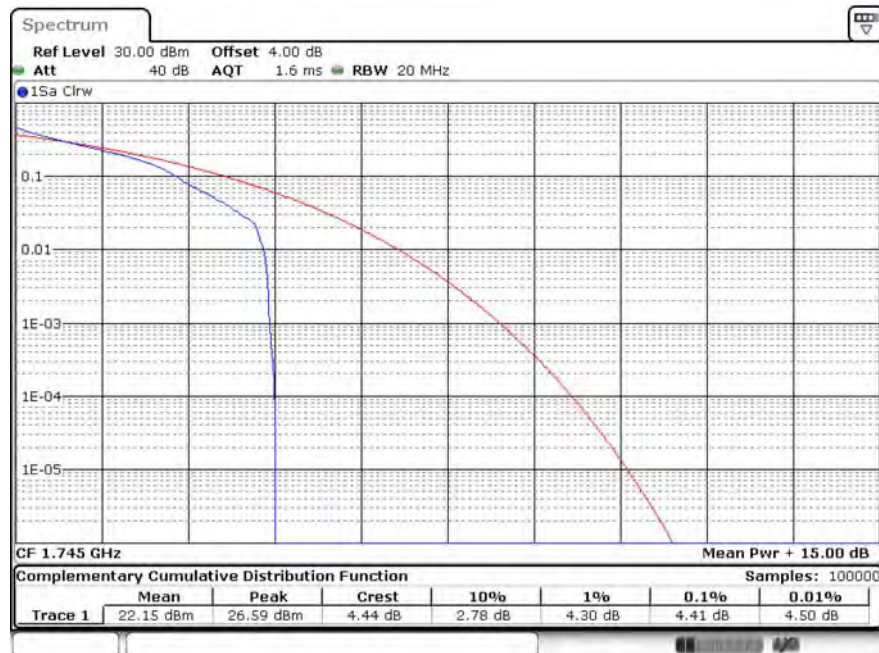
B66_CH131997_5M_1RB12_QPSK



B66_CH131997_5M_1RB12_16-QAM



B66_CH132322_5M_1RB12_QPSK



Date: 20 DEC 2019 10:59:26

B66_CH132322_5M_1RB12_16-QAM

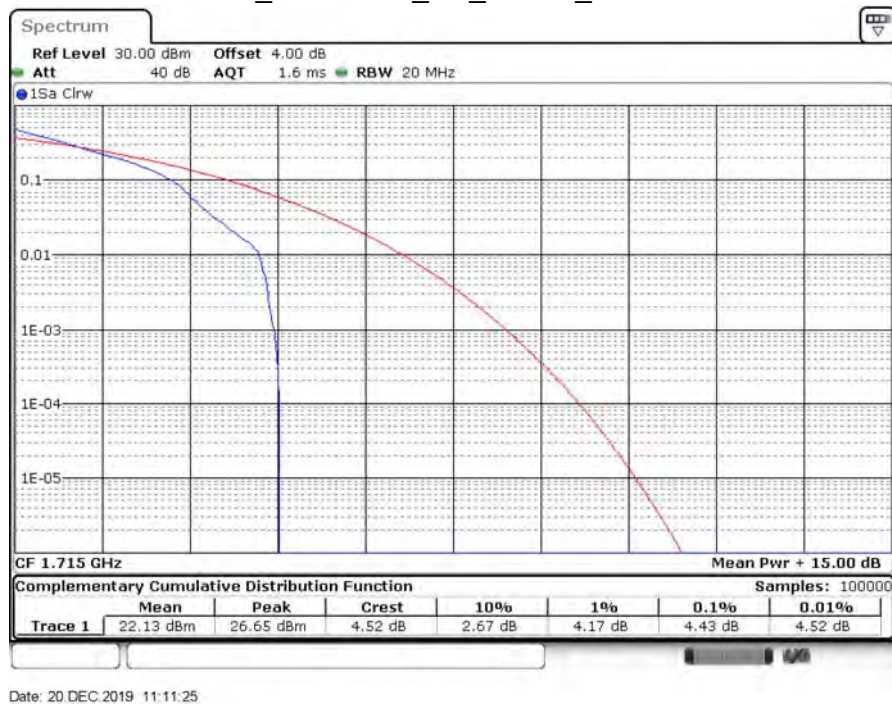


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B66_CH132647_5M_1RB12_QPSK



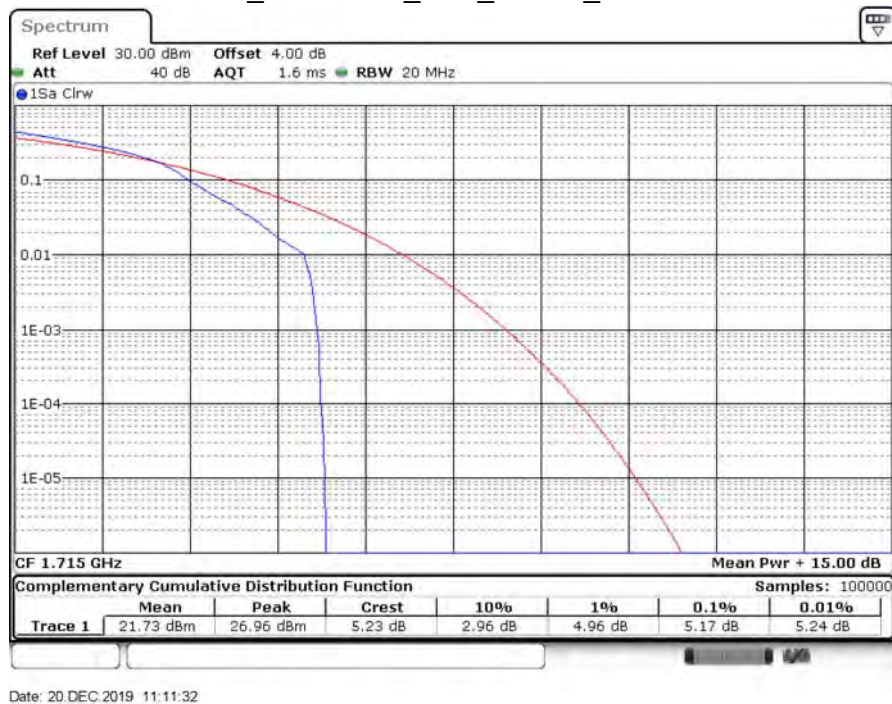
B66_CH132647_5M_1RB12_16-QAM



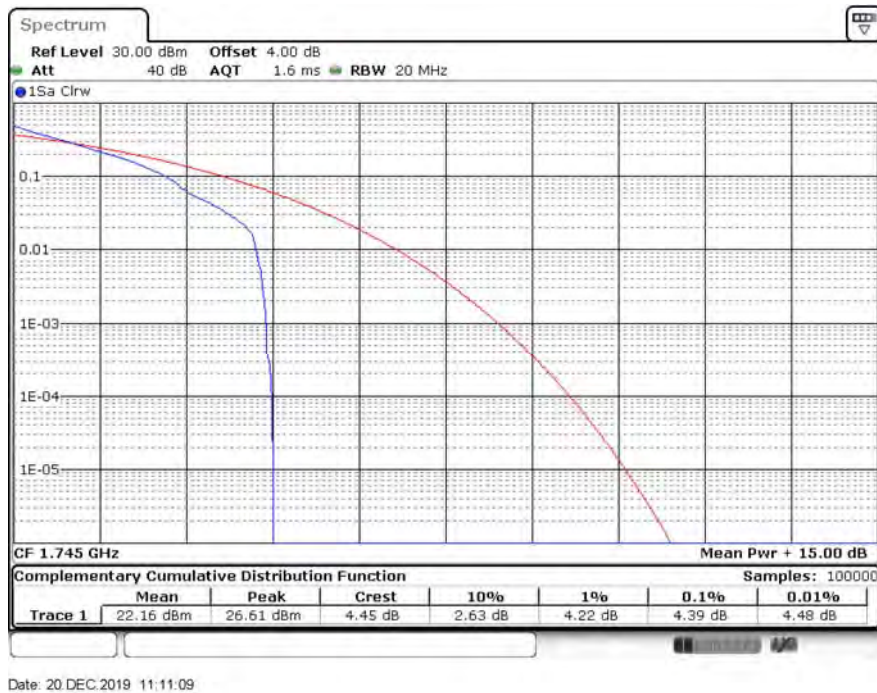
B66_CH132022_10M_1RB24_QPSK



B66_CH132022_10M_1RB24_16-QAM



B66_CH132322_10M_1RB24_QPSK



B66_CH132322_10M_1RB24_16-QAM



B66_CH132622_10M_1RB24_QPSK



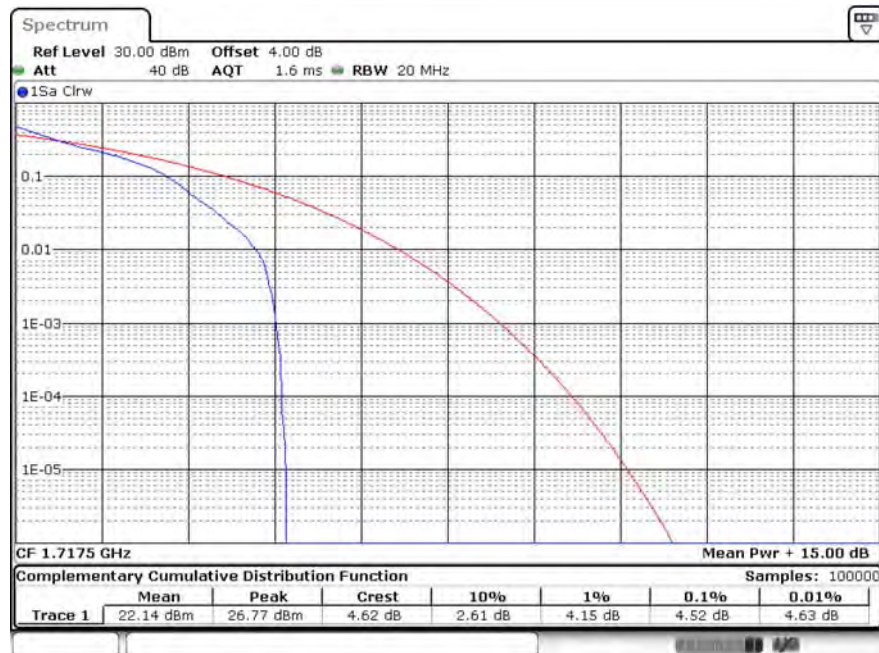
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B66_CH132047_15M_1RB37_QPSK



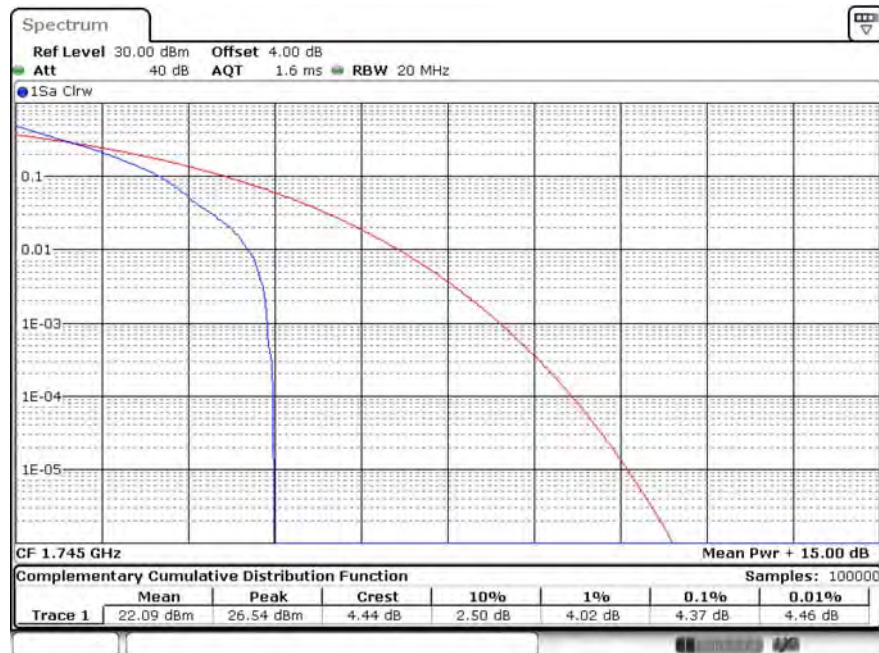
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Date: 20 DEC 2019 11:12:53

B66_CH132322_15M_1RB37_QPSK



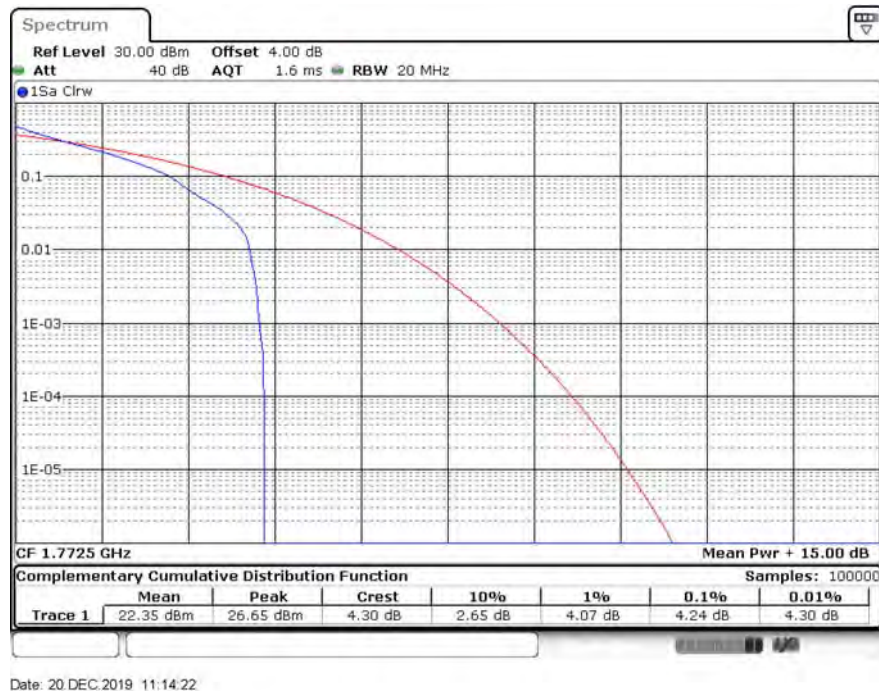
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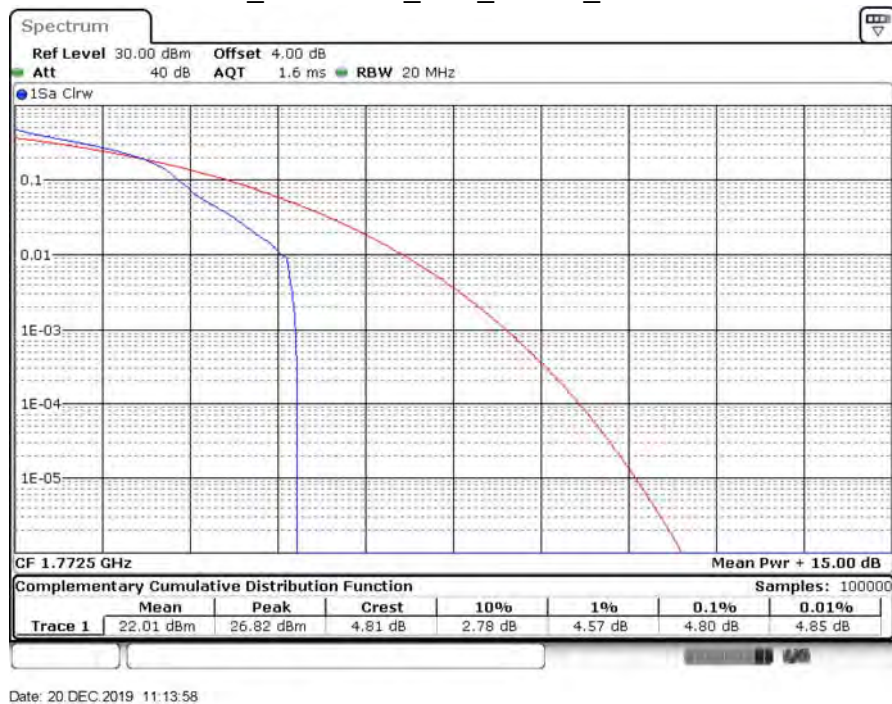


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B66_CH132597_15M_1RB37_QPSK



B66_CH132597_15M_1RB37_16-QAM



B66_CH132072_20M_1RB49_QPSK



Date: 20 DEC.2019 11:16:15

B66_CH132072_20M_1RB49_16-QAM



Date: 20 DEC.2019 11:16:07

B66_CH132322_20M_1RB49_QPSK



Date: 20 DEC 2019 11:15:45

B66_CH132322_20M_1RB49_16-QAM

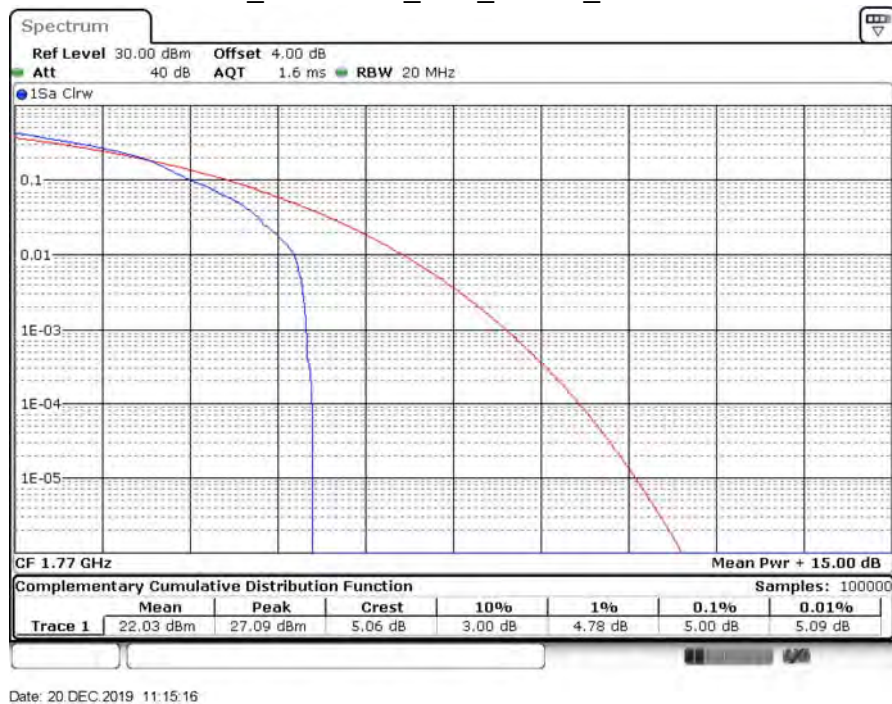


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B66_CH132572_20M_1RB49_QPSK



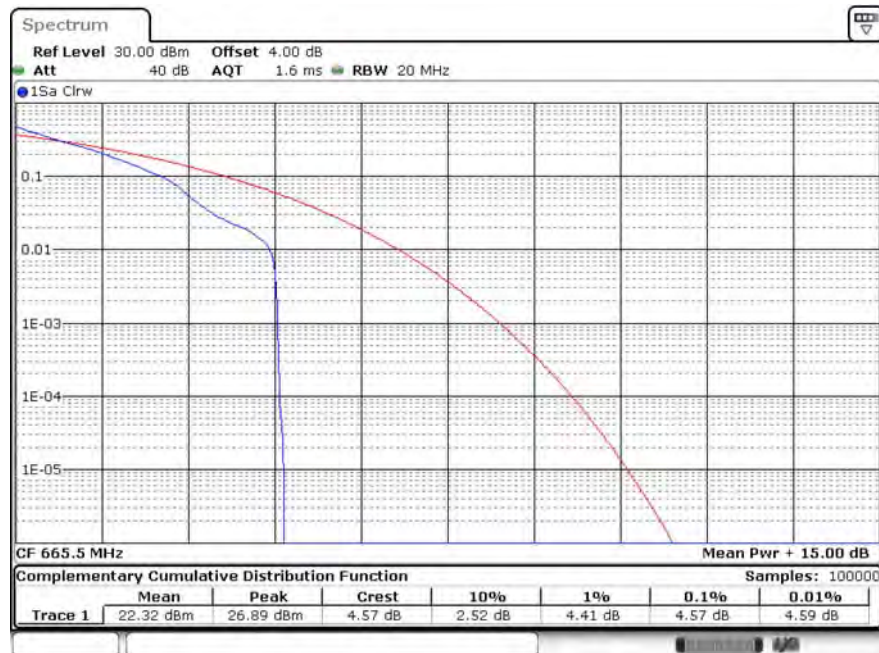
B66_CH132572_20M_1RB49_16-QAM



Product	Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 9: LTE Band 71		
Date of Test	2019/12/20	Test Site	SR12-H
Temperature (°C)	22.0°C	Humidity (%RH)	59%RH

Band width (MHz)	Channel	Frequency (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
5M	113147	665.5	QPSK	26.89	22.32	4.57
			16-QAM	27.19	21.70	5.46
	133297	680.5	QPSK	26.78	22.17	4.59
			16-QAM	26.47	20.95	5.50
	133447	695.5	QPSK	27.10	22.34	4.76
			16-QAM	26.69	21.20	5.50
10M	133172	668	QPSK	26.83	22.61	4.20
			16-QAM	17.06	21.99	5.02
	133297	680.5	QPSK	27.33	22.58	4.70
			16-QAM	27.19	21.78	5.35
	133422	693	QPSK	27.16	22.35	4.76
			16-QAM	26.92	21.31	5.59
15M	133197	670.5	QPSK	26.89	22.58	4.30
			16-QAM	26.76	21.56	5.15
	133297	680.5	QPSK	26.85	22.15	4.70
			16-QAM	26.88	21.25	5.57
	133397	690.5	QPSK	26.82	22.18	4.61
			16-QAM	26.99	21.25	5.70
20M	133222	673	QPSK	27.24	22.52	4.70
			16-QAM	27.09	21.49	5.52
	133297	680.5	QPSK	27.08	22.33	4.70
			16-QAM	27.32	21.76	5.50
	133372	688	QPSK	26.67	22.25	4.37
			16-QAM	26.98	21.88	5.07

B71_CH133147_5M_1RB12_QPSK



Date: 20 DEC 2019 11:19:02

B71_CH133147_5M_1RB12_16-QAM

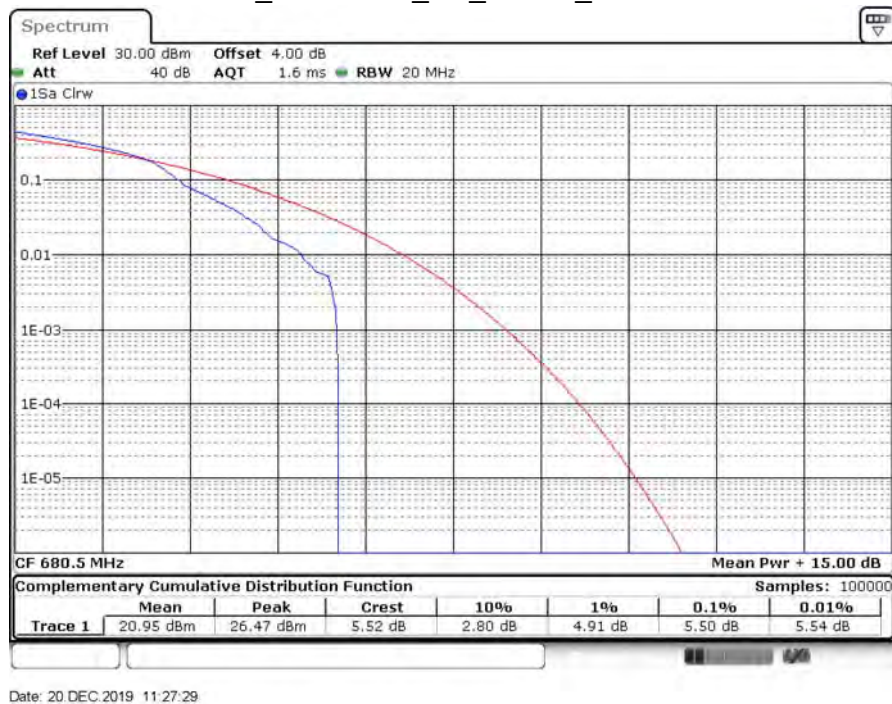


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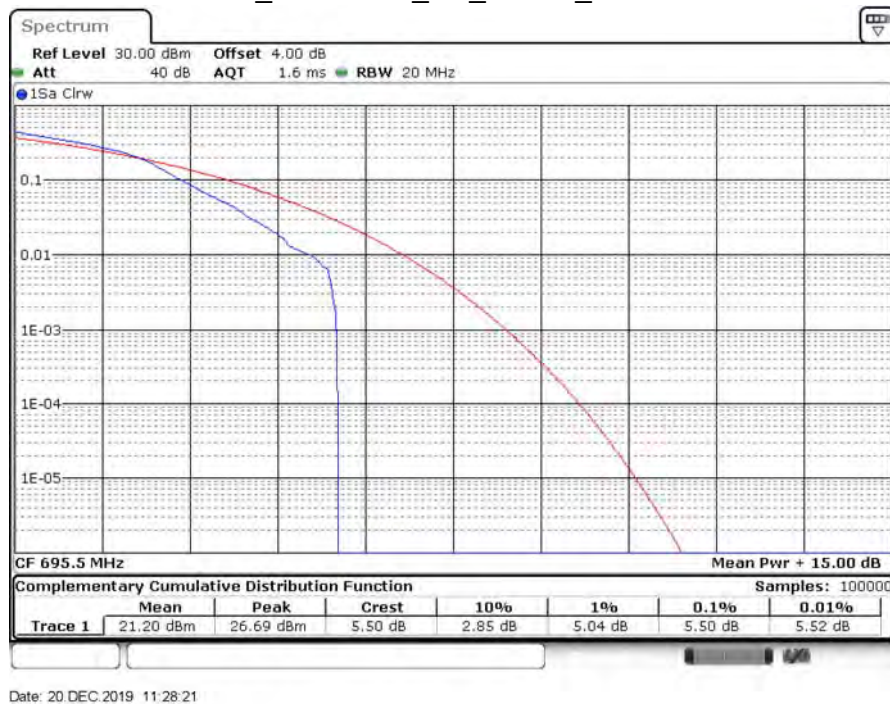
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B71_CH133447_5M_1RB12_QPSK



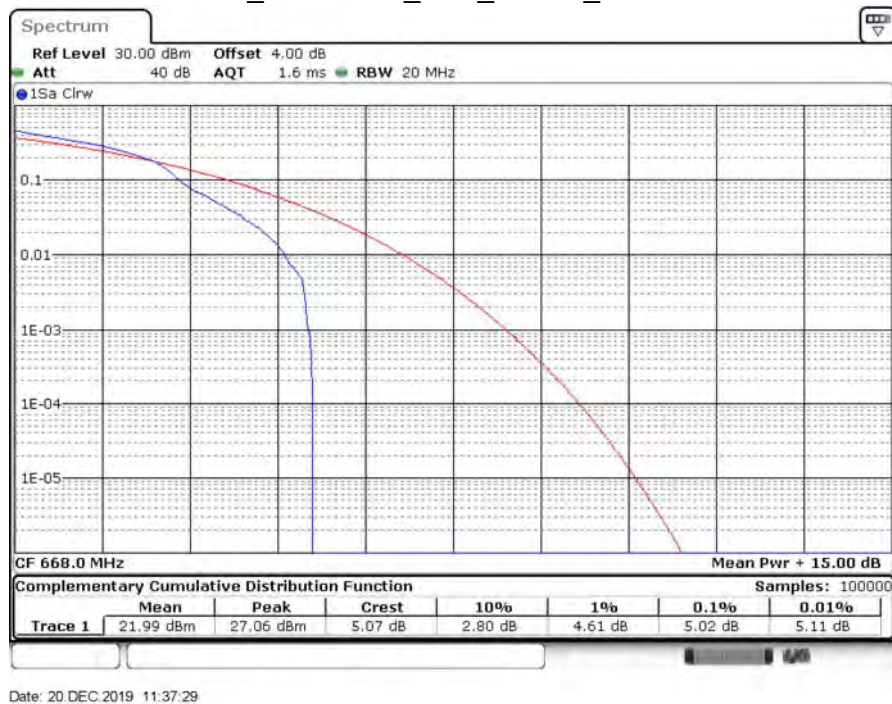
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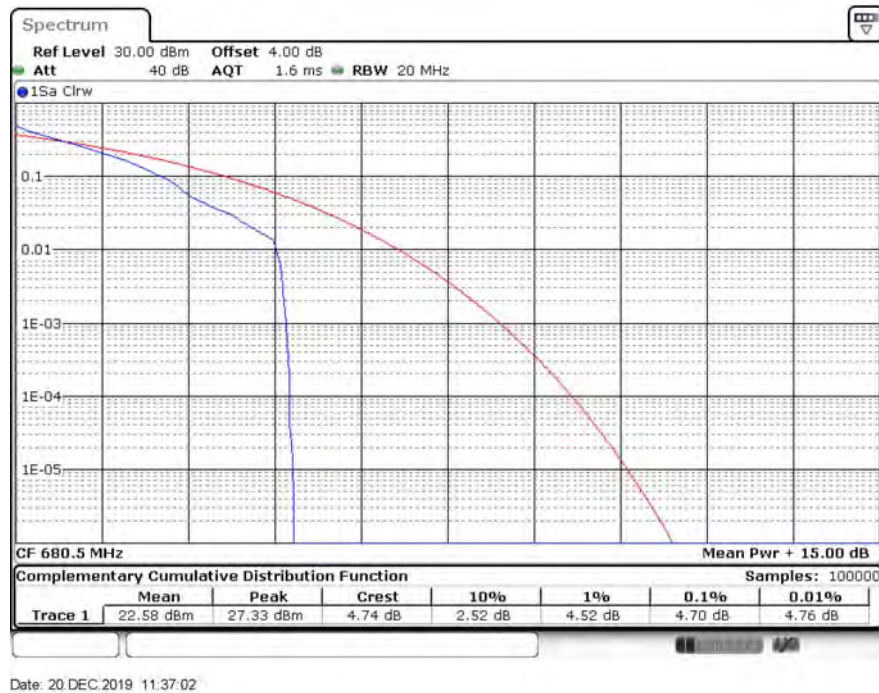
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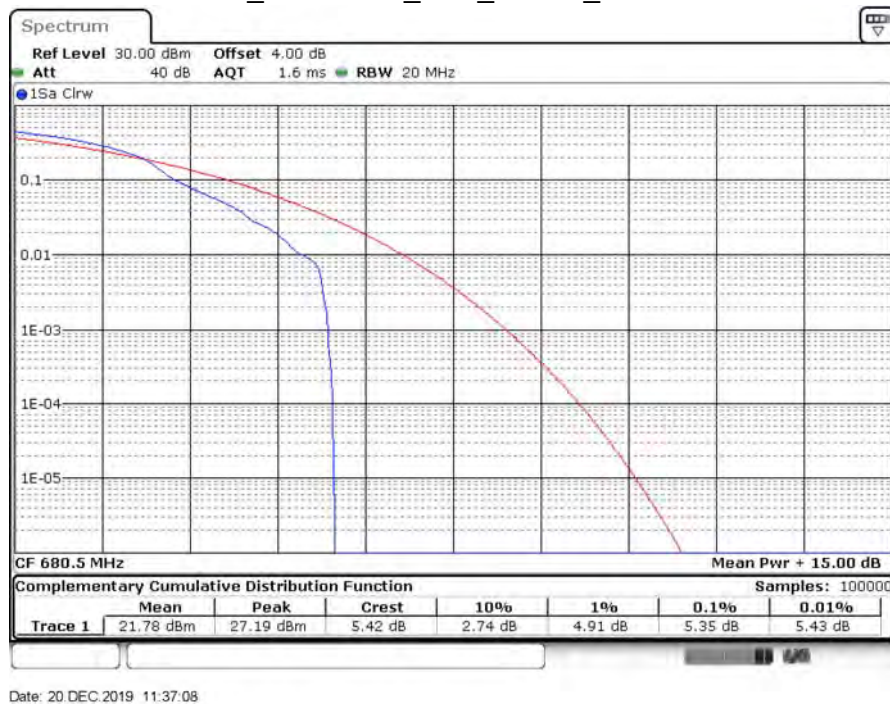
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B71_CH133297_10M_1RB24_QPSK



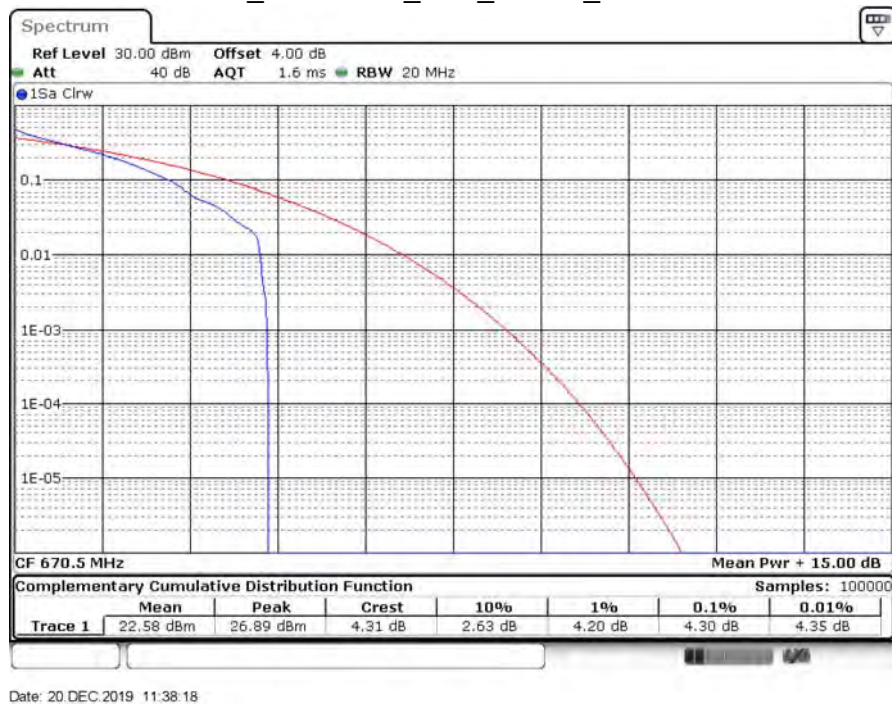
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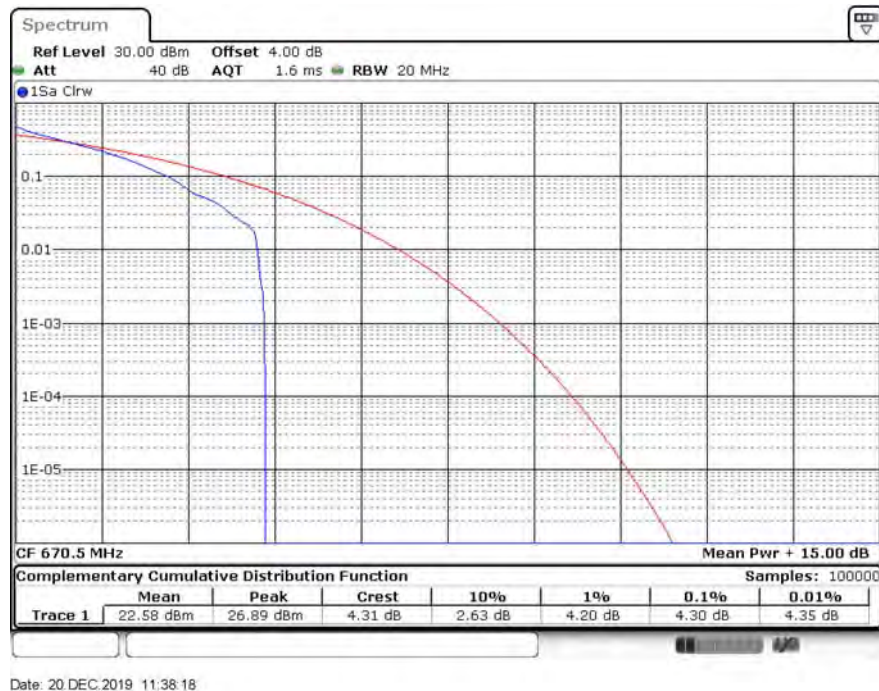
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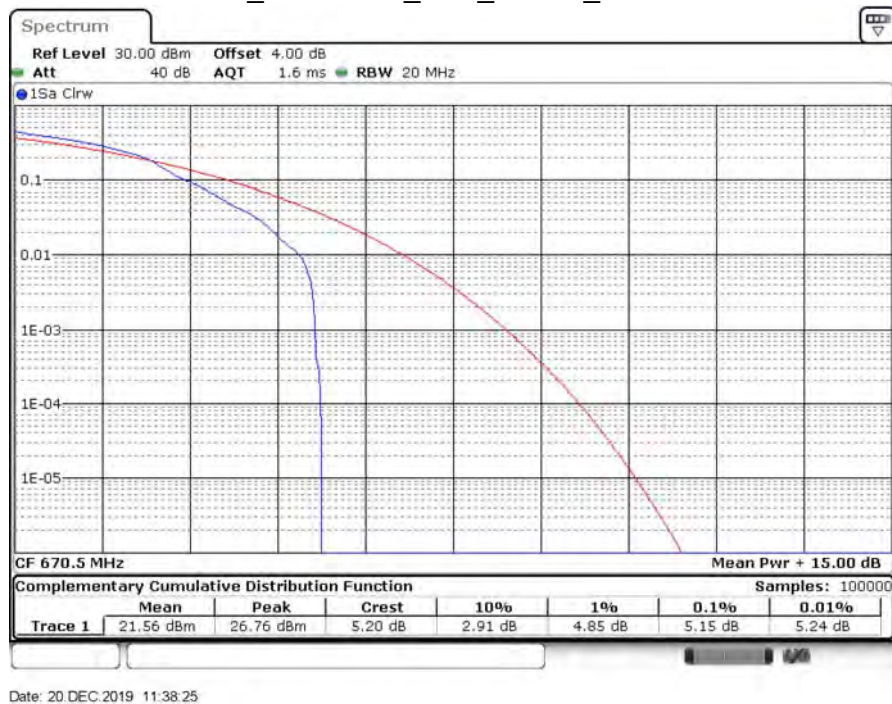
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B71_CH133197_15M_1RB37_QPSK



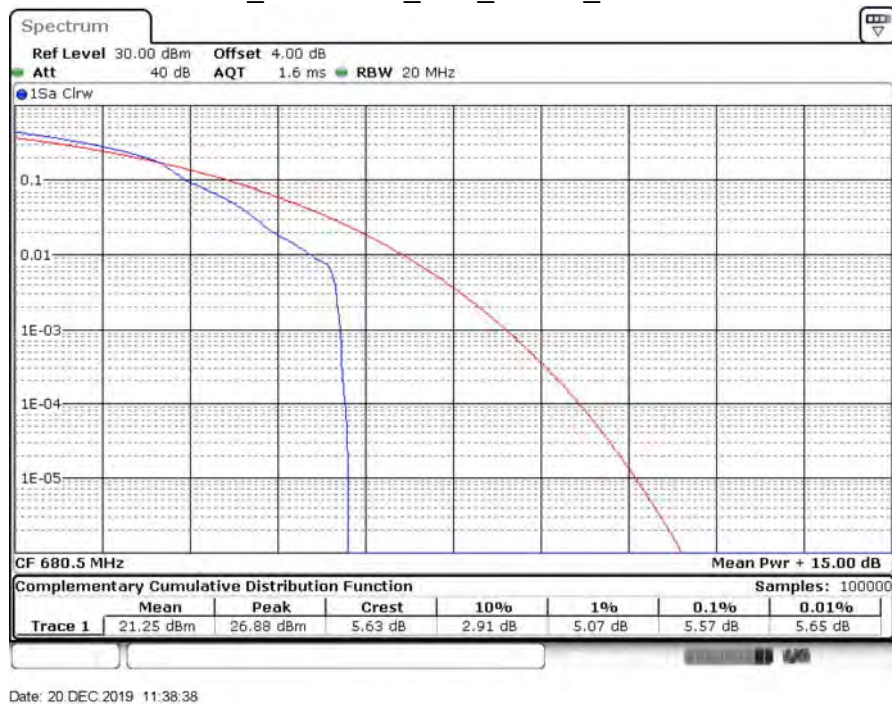
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B71_CH133297_15M_1RB37_16-QAM



B71_CH133397_15M_1RB37_QPSK



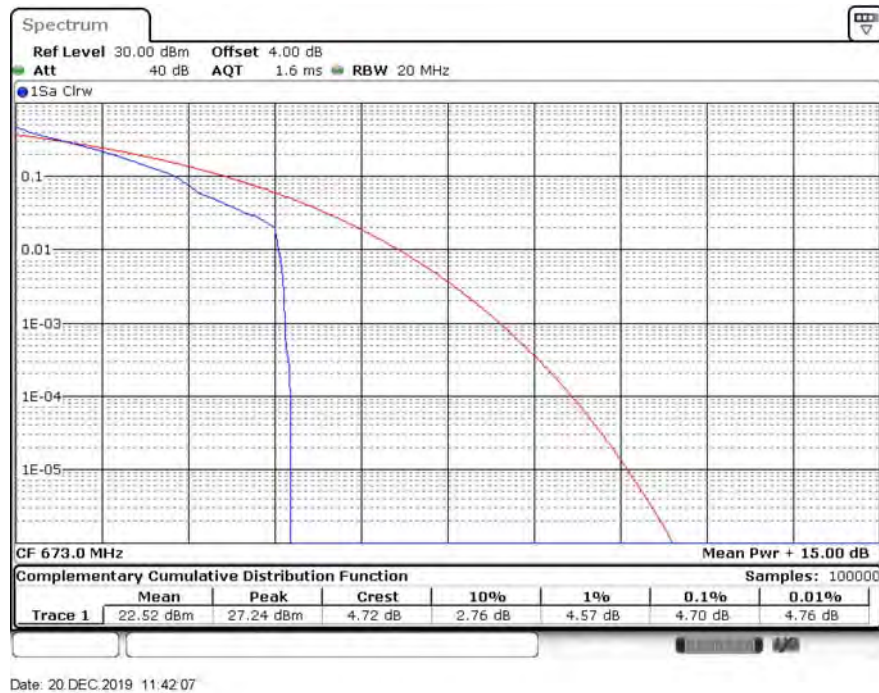
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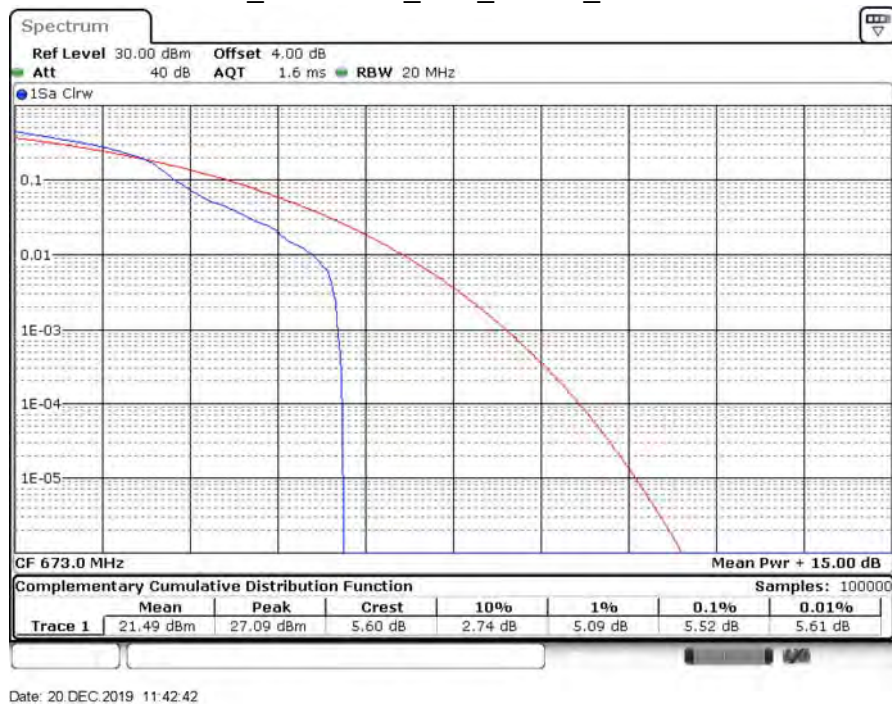


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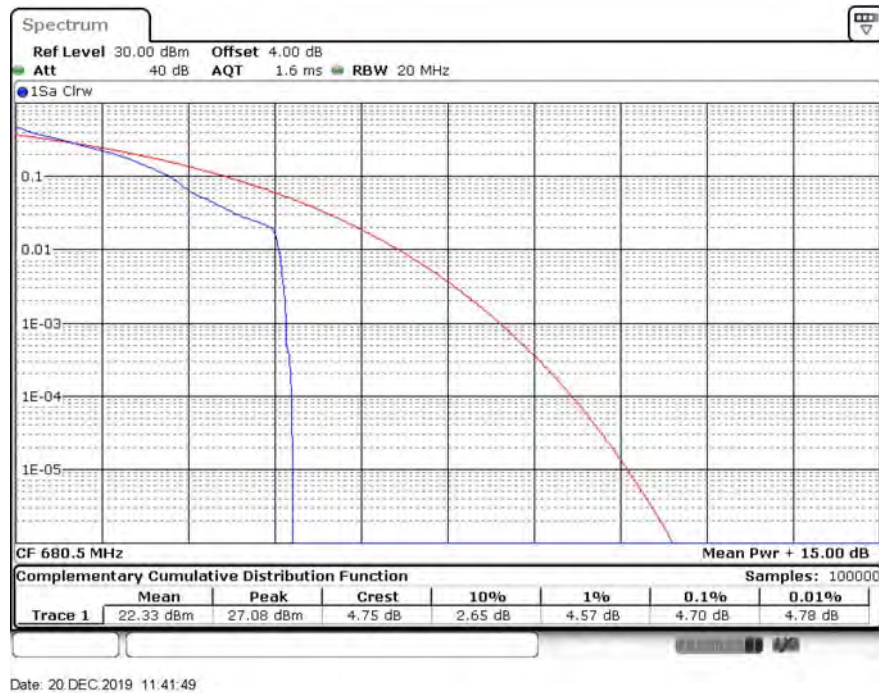
B71_CH133222_20M_1RB49_QPSK



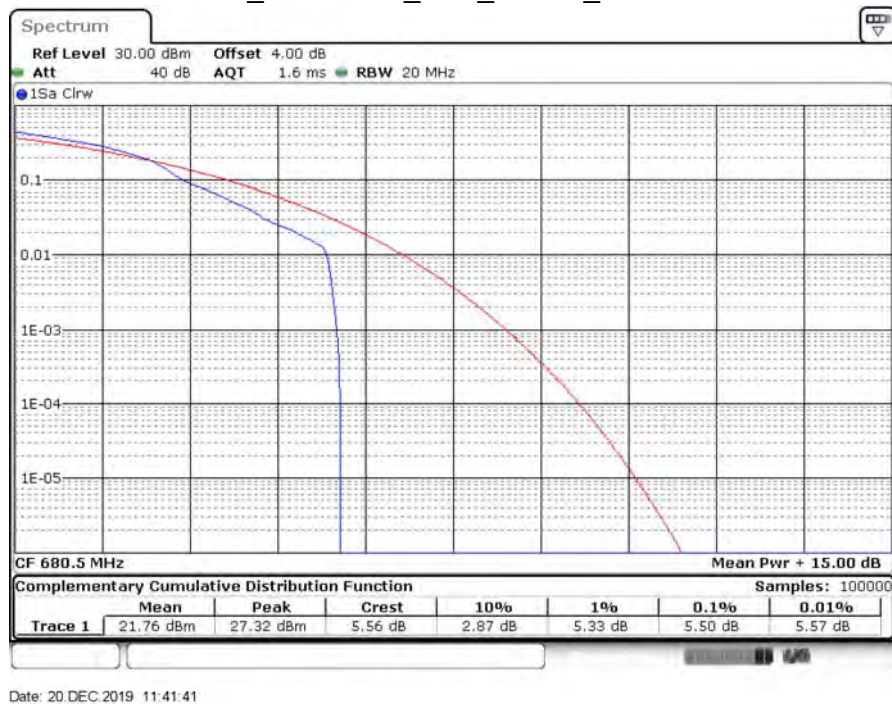
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B71_CH133297_20M_1RB49_QPSK



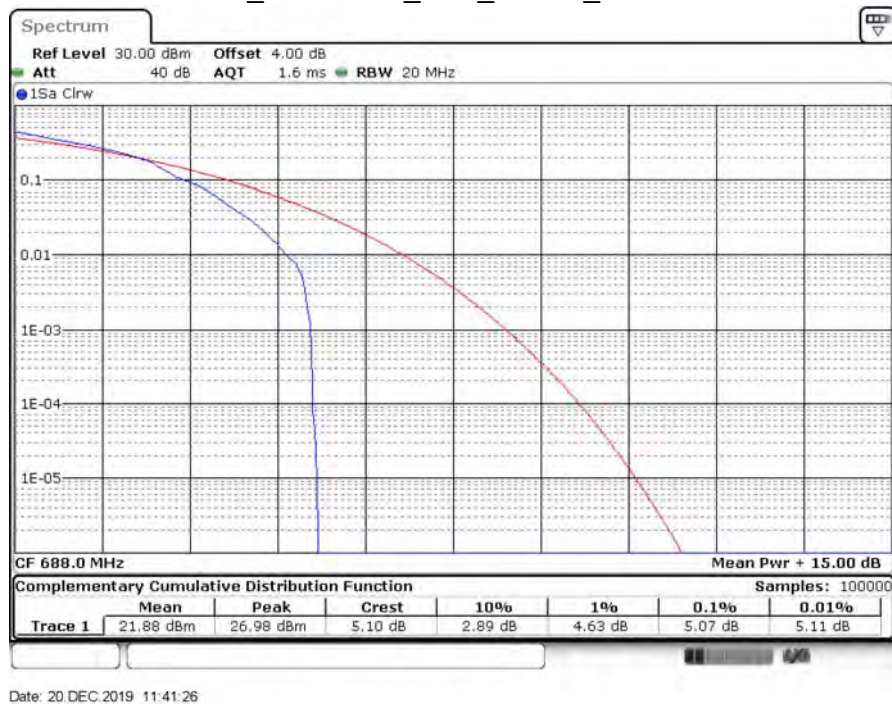
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B71_CH133371_20M_1RB49_QPSK



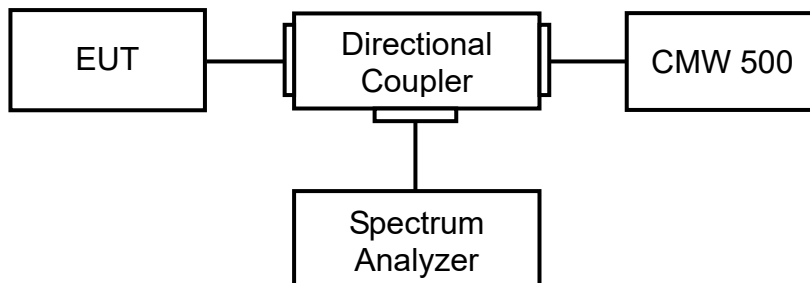
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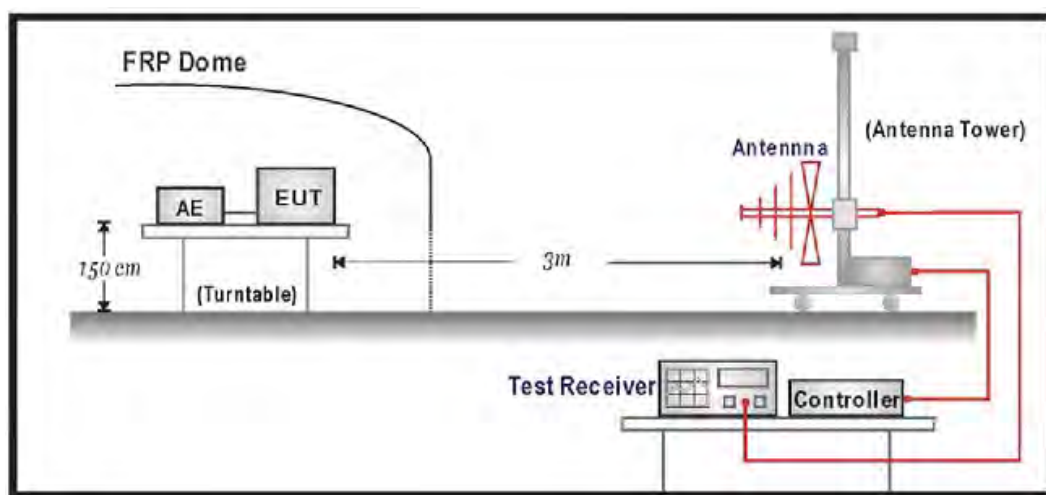
6. Spurious Emissions

6.1. Test Setup

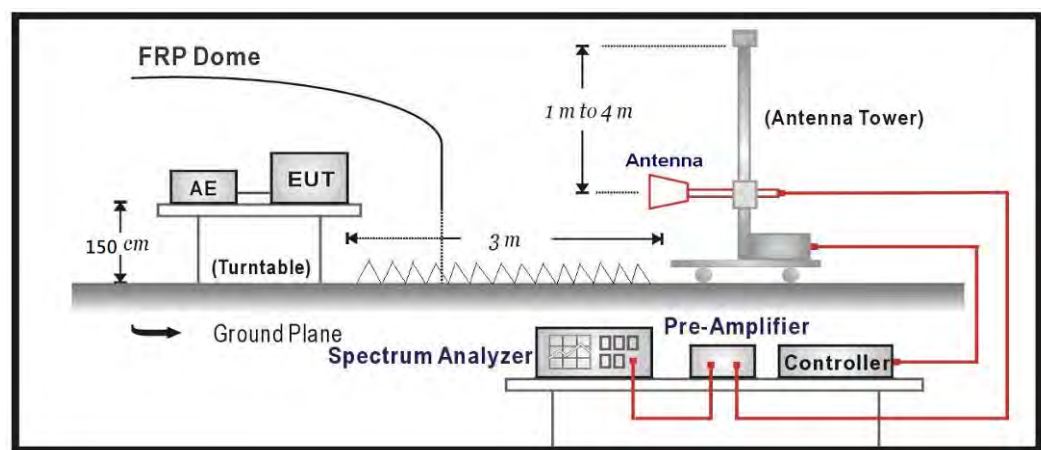
Conducted Spurious Measurement:



Radiated Spurious Measurement (below 1GHz)



Radiated Spurious Measurement (above 1GHz)



6.2. Test Procedure

Conducted Spurious Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.
- e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

- a) The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
- b) The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- c) The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d) The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- e) Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 1MHz, Sweep 500ms, Taking the record of maximum spurious emission.
- f) A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g) Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h) Taking the record of output power at antenna port
- i) Repeat step 7 to step 8 for another polarization.
- j) $EIRP = SG - \text{Cable loss} + \text{Antenna Gain}$

6.3. Test Method

Conducted Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1
ANSI C63.26: 2015 Sub-clause 5.7

Radiated Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.8
ANSI C63.26: 2015 Sub-clause 5.5.3.2