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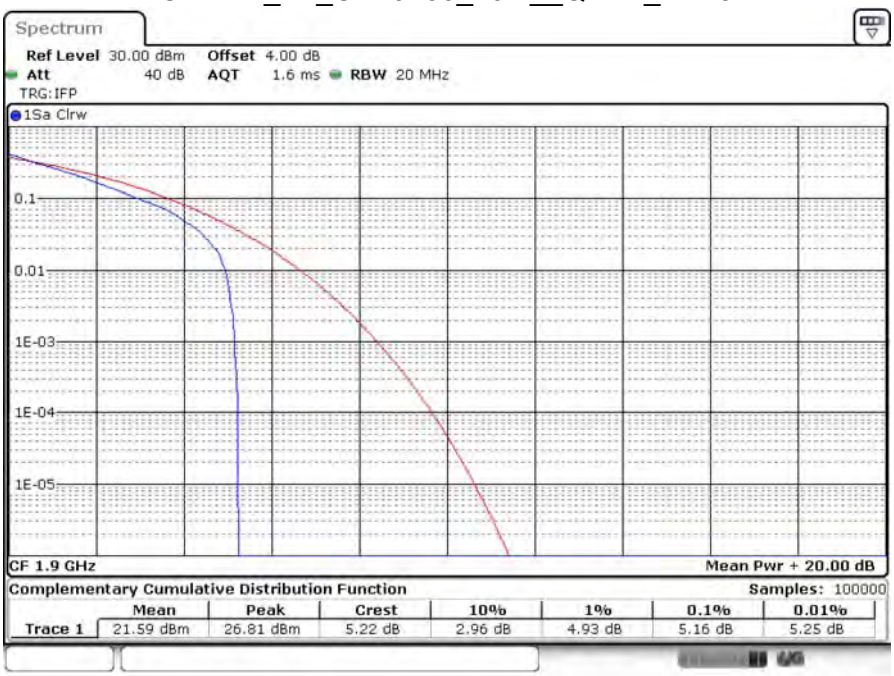

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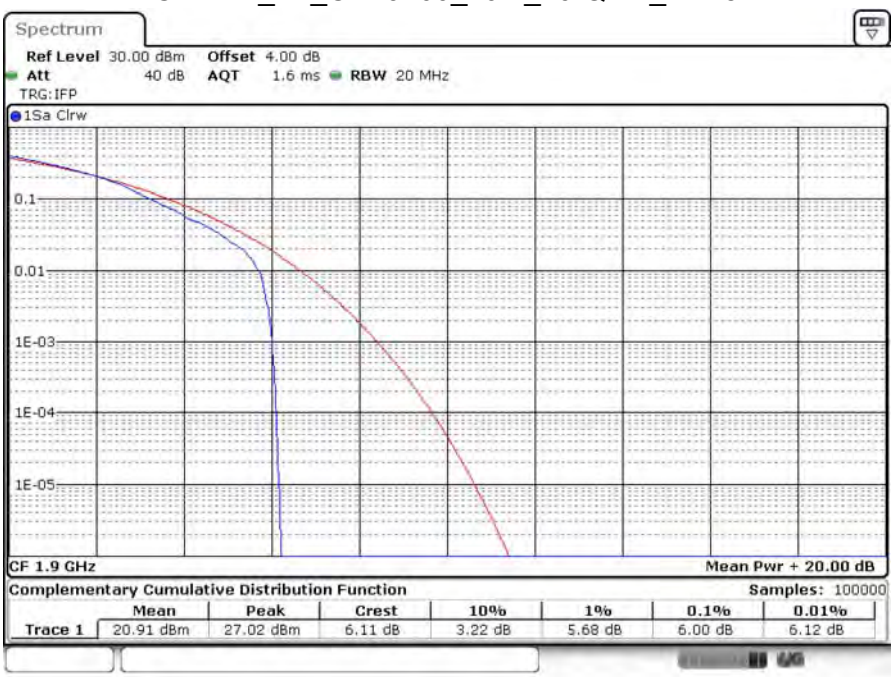


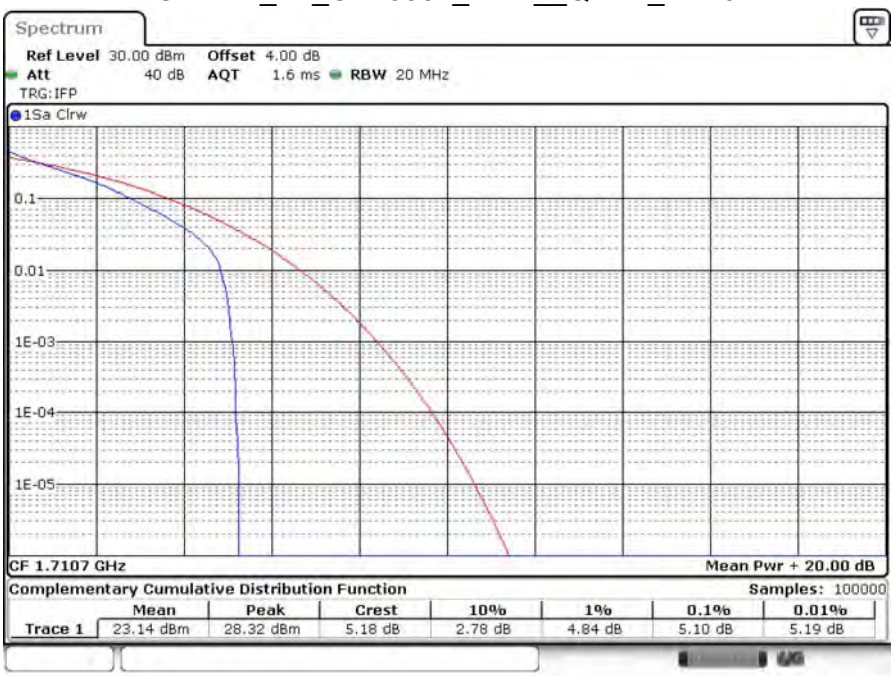
Date: 18.JAN.2021 11:17:05

Product	Connectivity Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 2: Band4 Link		
Date of Test	2021/01/19	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	59

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	19957	1710.7	QPSK	28.32	23.14	5.10
			16-QAM	28.34	22.33	5.88
	20175	1732.5	QPSK	28.24	22.91	5.25
			16-QAM	28.46	22.01	6.29
	20393	1754.3	QPSK	28.56	22.96	5.51
			16-QAM	28.55	21.90	6.52
3M	19965	1711.5	QPSK	28.48	23.09	5.04
			16-QAM	28.12	21.88	6.14
	20175	1732.5	QPSK	28.23	22.87	5.16
			16-QAM	28.72	22.23	6.00
	20385	1753.5	QPSK	28.40	22.93	5.36
			16-QAM	28.42	22.02	6.35
5M	19975	1712.5	QPSK	28.06	22.92	5.01
			16-QAM	28.42	22.62	5.71
	20175	1732.5	QPSK	28.09	22.94	5.04
			16-QAM	28.42	22.63	5.71
	20375	1752.5	QPSK	28.08	22.71	5.30
			16-QAM	28.59	22.52	6.03
10M	20000	1715	QPSK	27.62	22.52	5.01
			16-QAM	28.01	22.07	5.86
	20175	1732.5	QPSK	27.55	22.40	5.07
			16-QAM	28.18	22.33	5.77
	20350	1750	QPSK	27.82	22.43	5.25
			16-QAM	28.33	22.10	6.14
15M	20025	1717.5	QPSK	26.89	21.84	4.96
			16-QAM	27.38	21.88	5.42
	20175	1732.5	QPSK	26.62	21.46	5.07
			16-QAM	27.25	21.30	5.88
	20325	1747.5	QPSK	27.18	21.94	5.19
			16-QAM	27.71	21.60	6.03

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
20M	20050	1720	QPSK	25.82	20.75	5.01
			16-QAM	26.30	20.67	5.54
	20175	1732.5	QPSK	25.94	20.89	4.96
			16-QAM	27.17	21.17	5.48
	20300	1745	QPSK	26.34	21.13	5.10
			16-QAM	26.89	20.99	5.80

CAT-M1_B4_CH19957_1.4M__QPSK_1RB0



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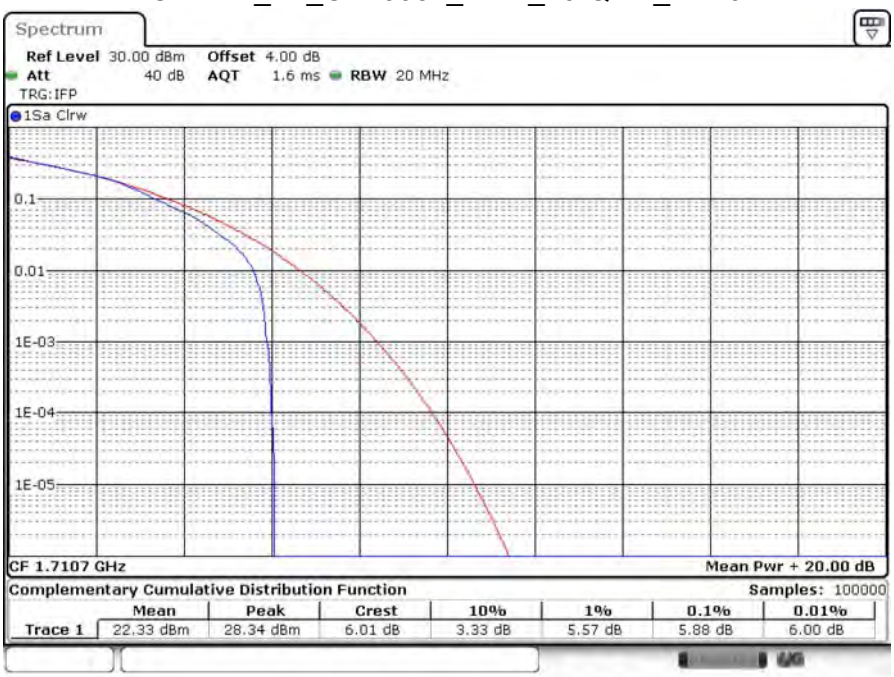

Date: 18.JAN.2021 11:19:08

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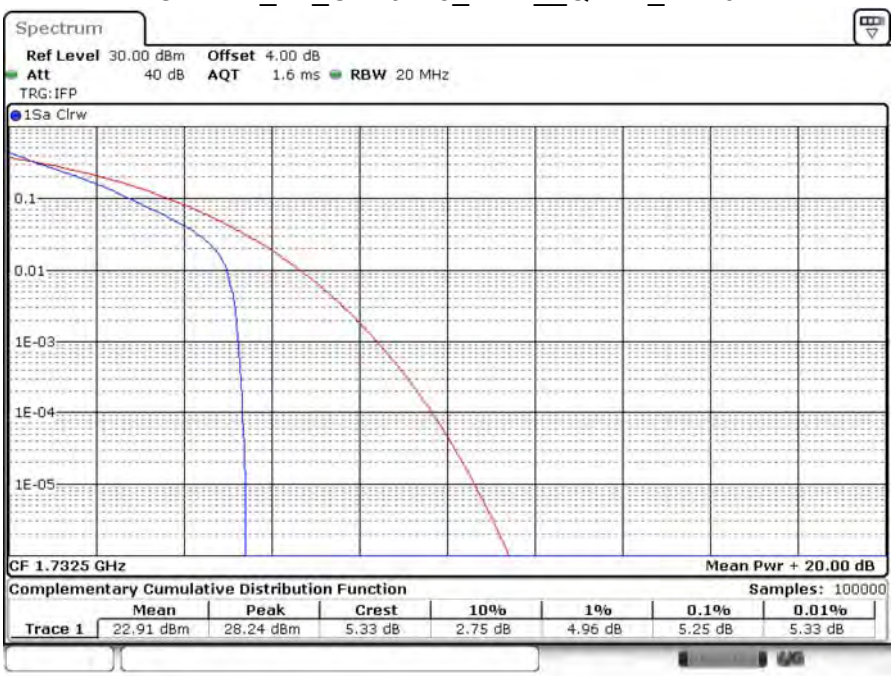

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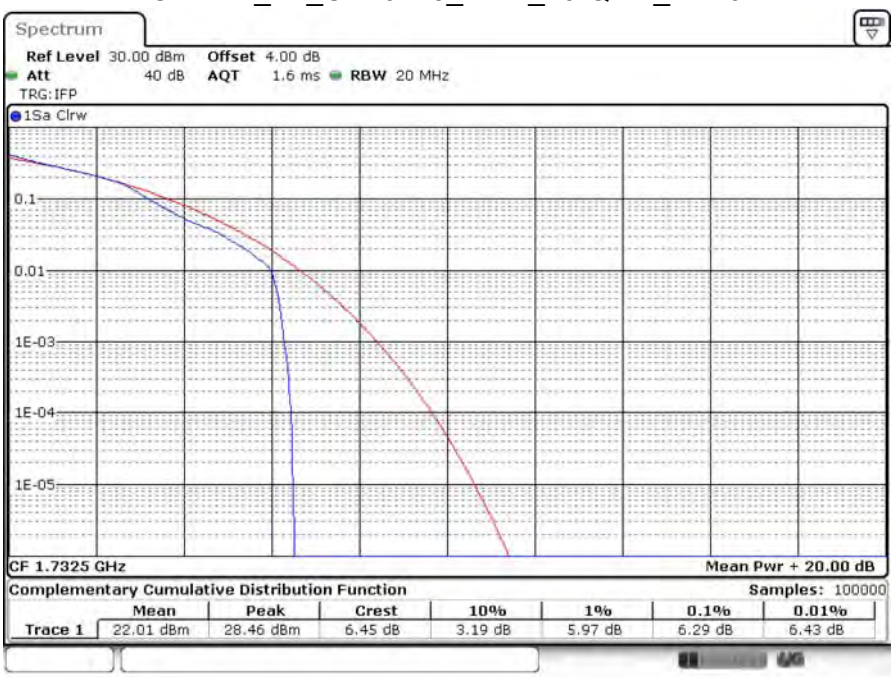

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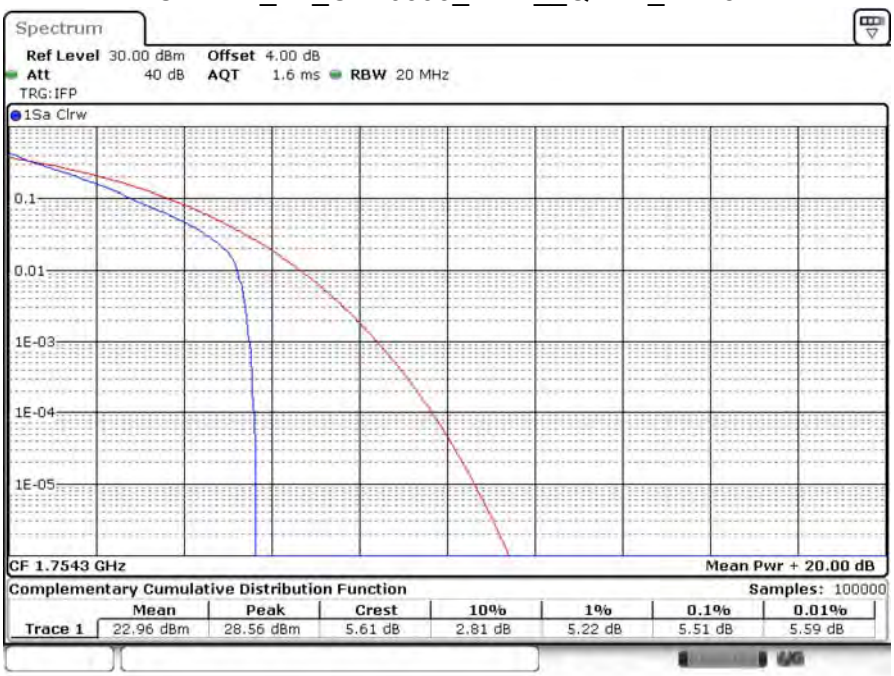

Date: 18.JAN.2021 11:23:12

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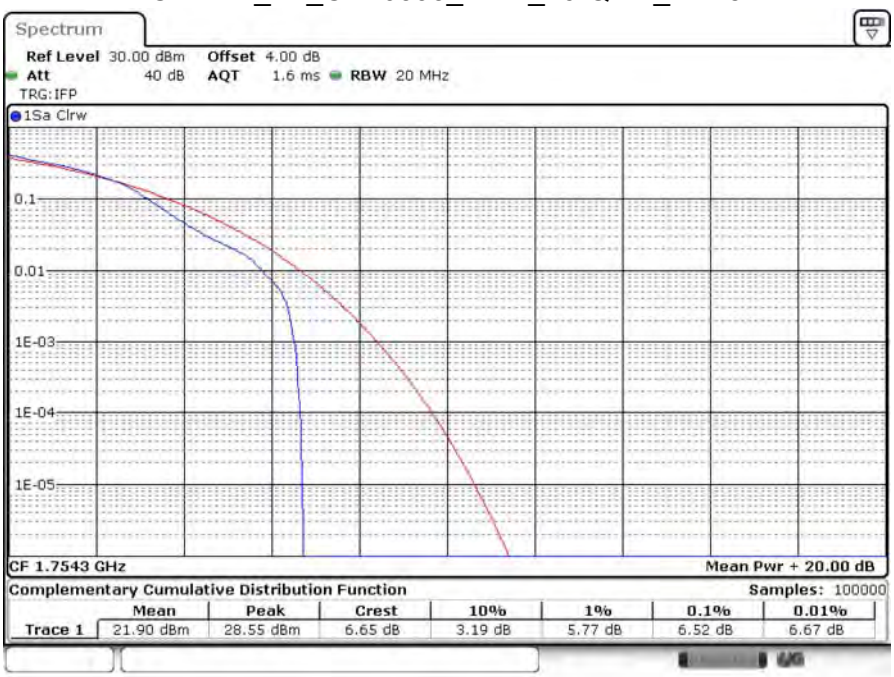

Date: 18.JAN.2021 11:22:46

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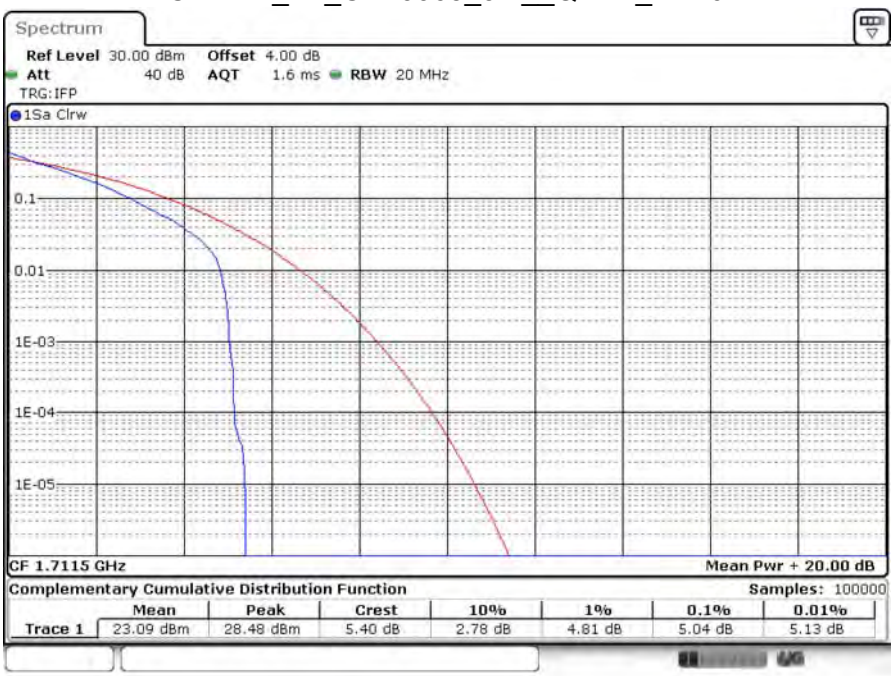

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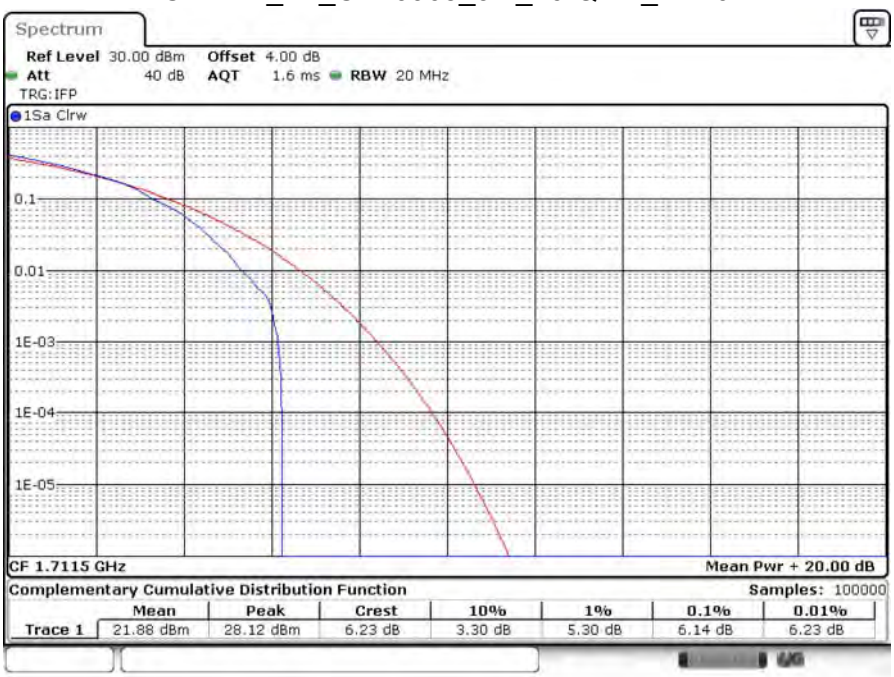

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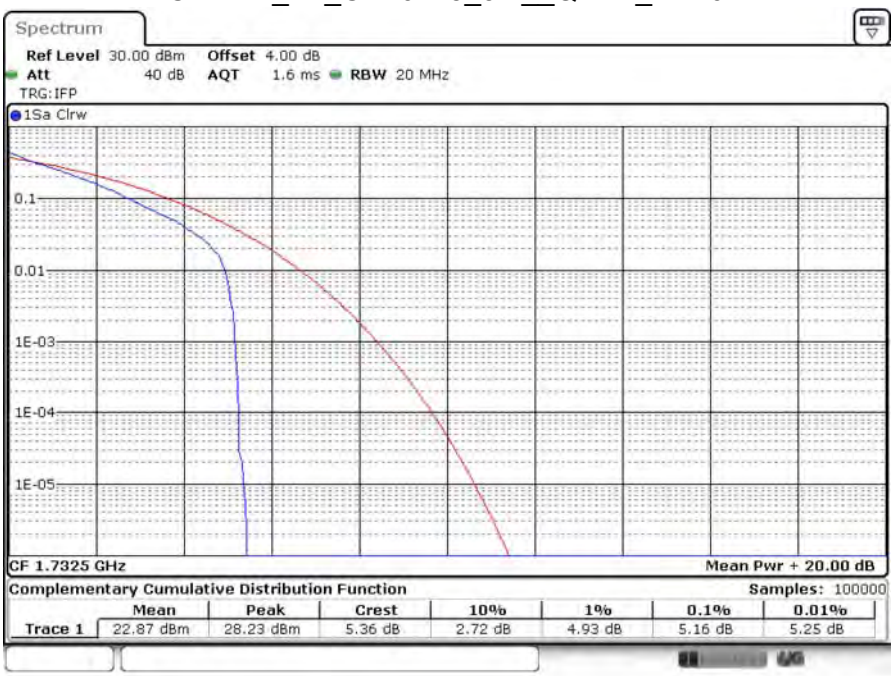

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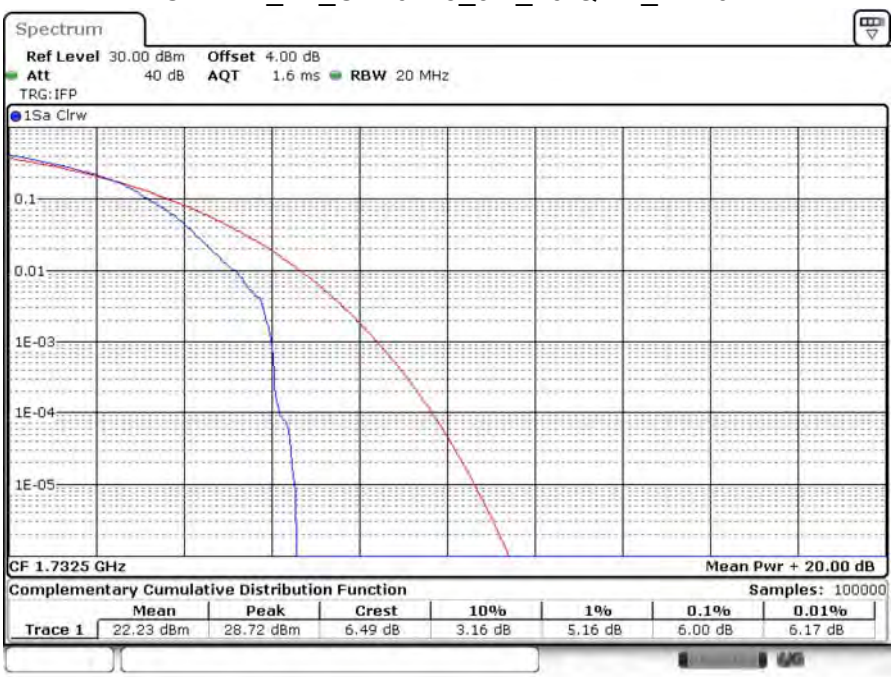

Date: 18.JAN.2021 11:28:08

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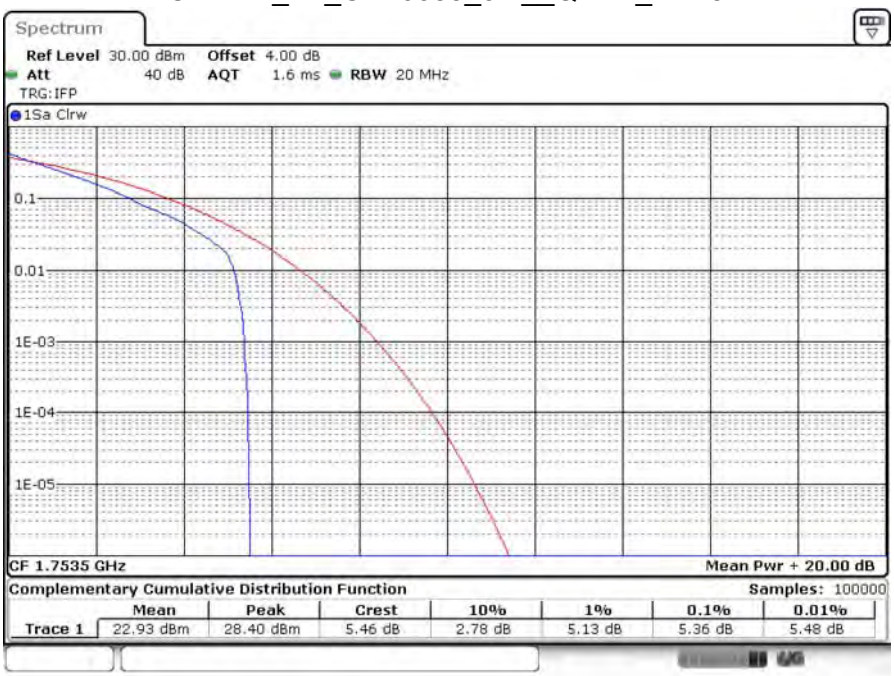

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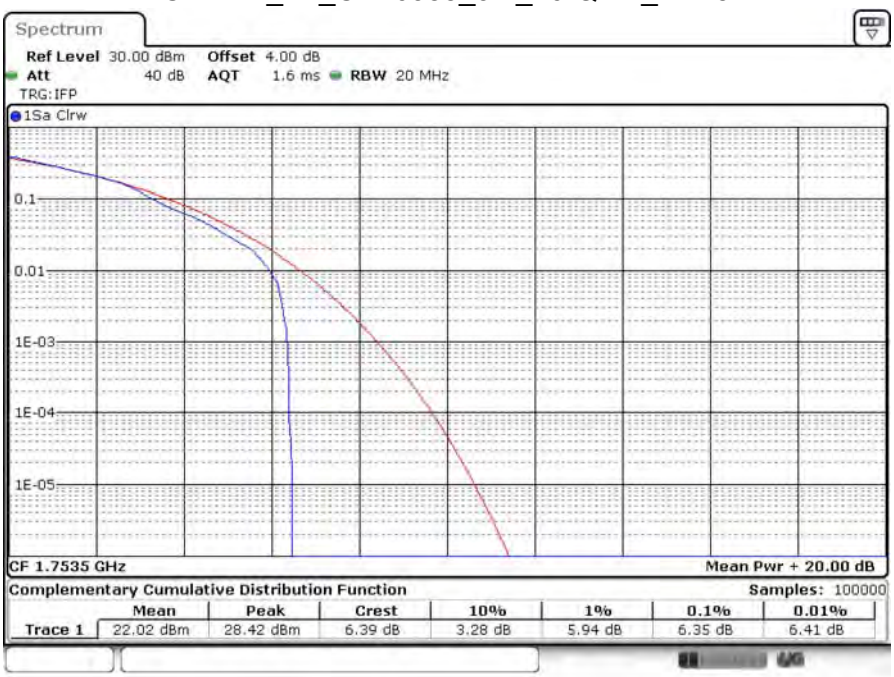

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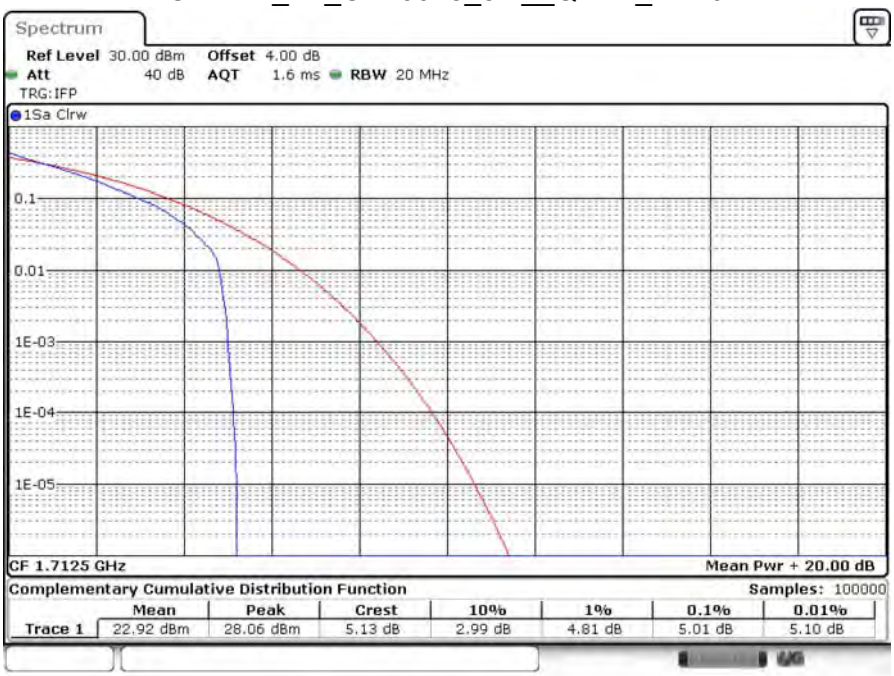

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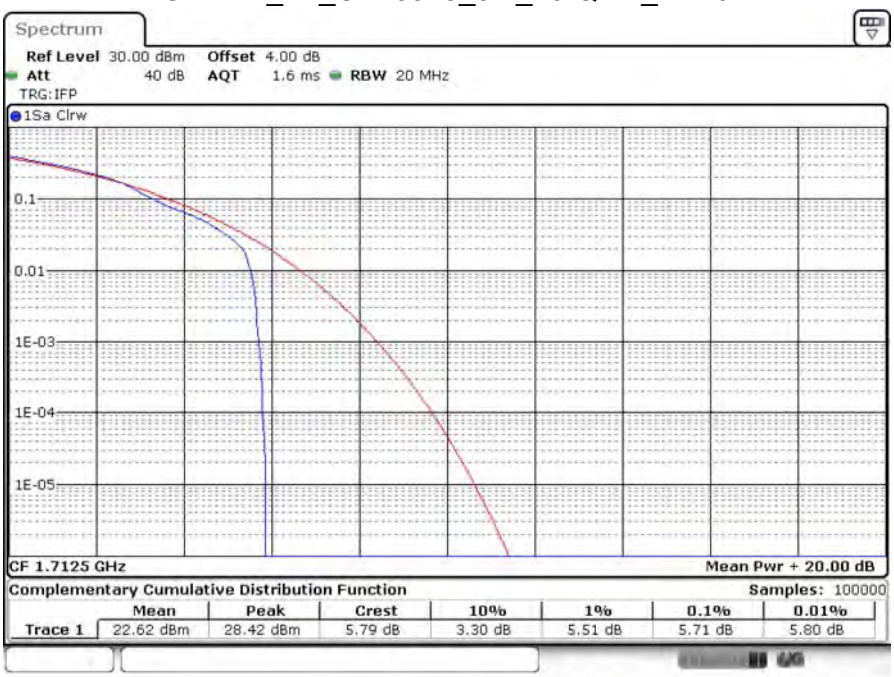

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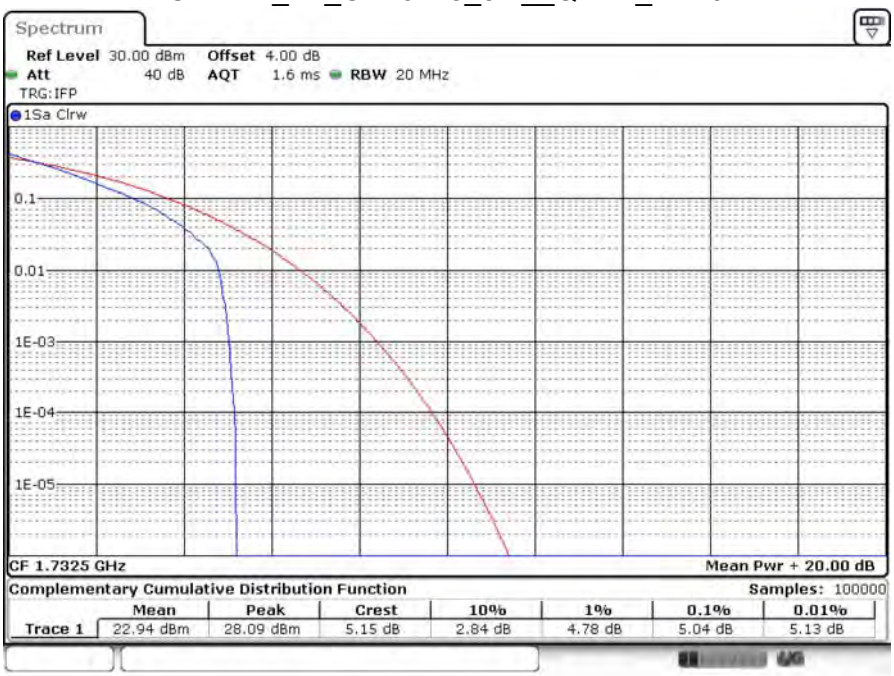

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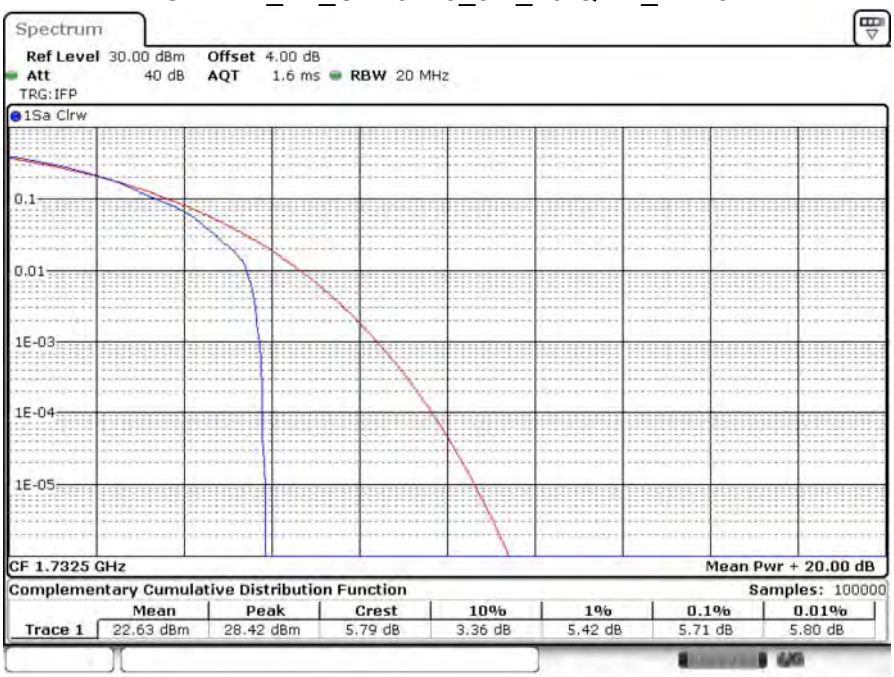

Date: 18.JAN.2021 13:44:18

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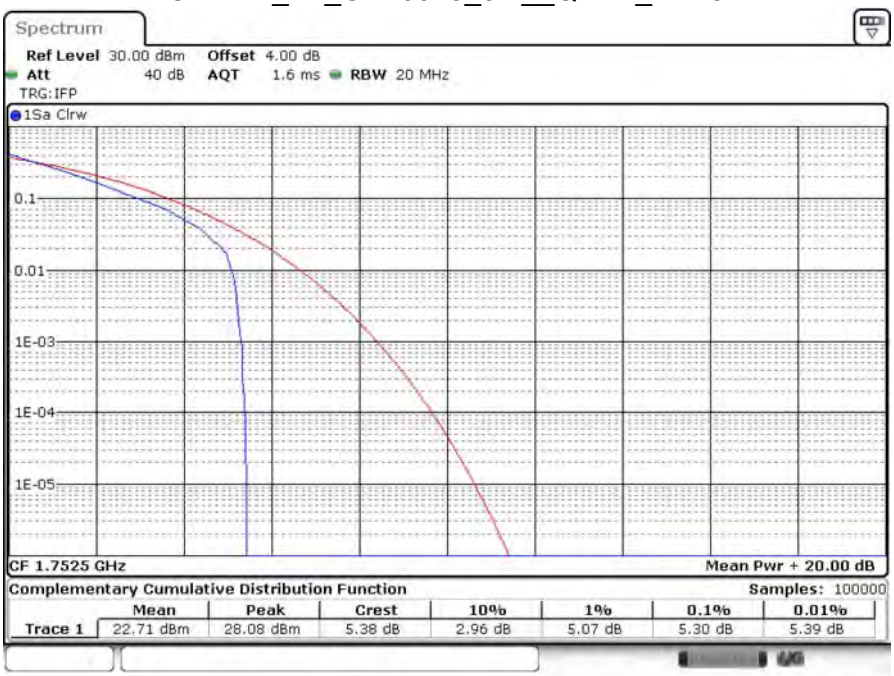

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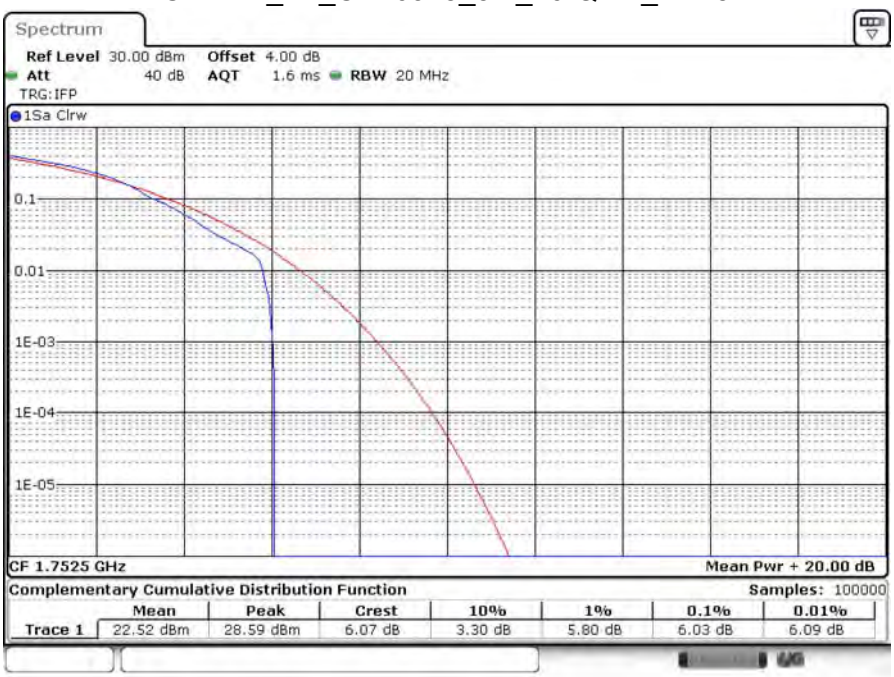

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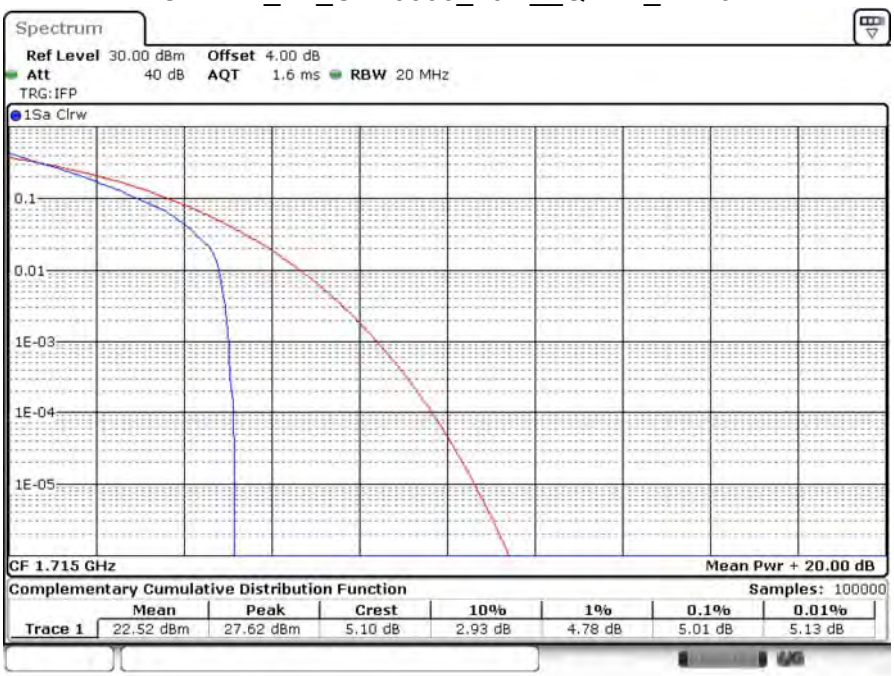
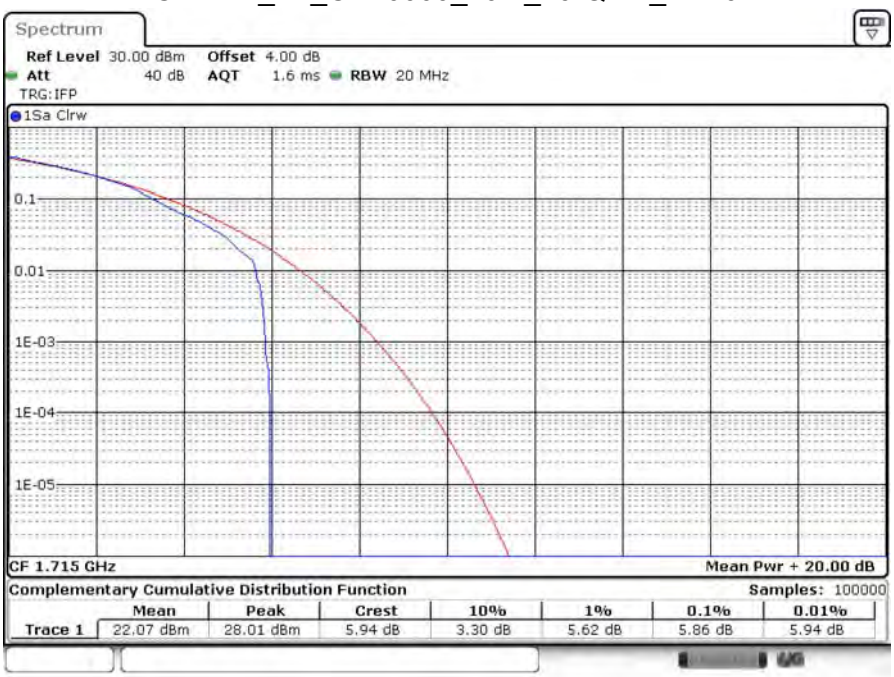


Date: 18.JAN.2021 14:06:47

CAT-M1_B4_CH20000_10M_16-QAM_1RB0



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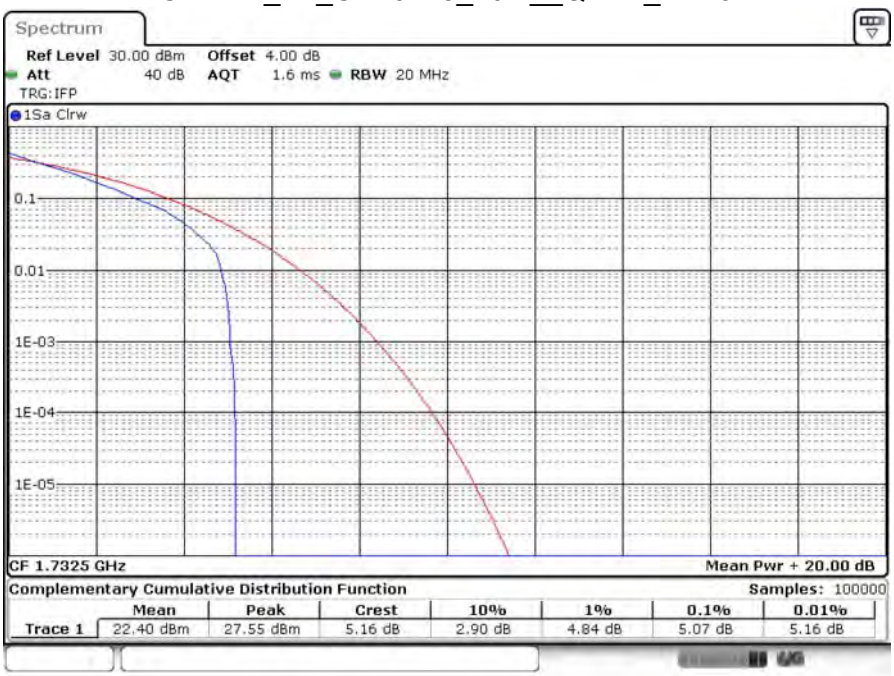
CAT-M1_B4_CH20175_10M__QPSK_1RB0



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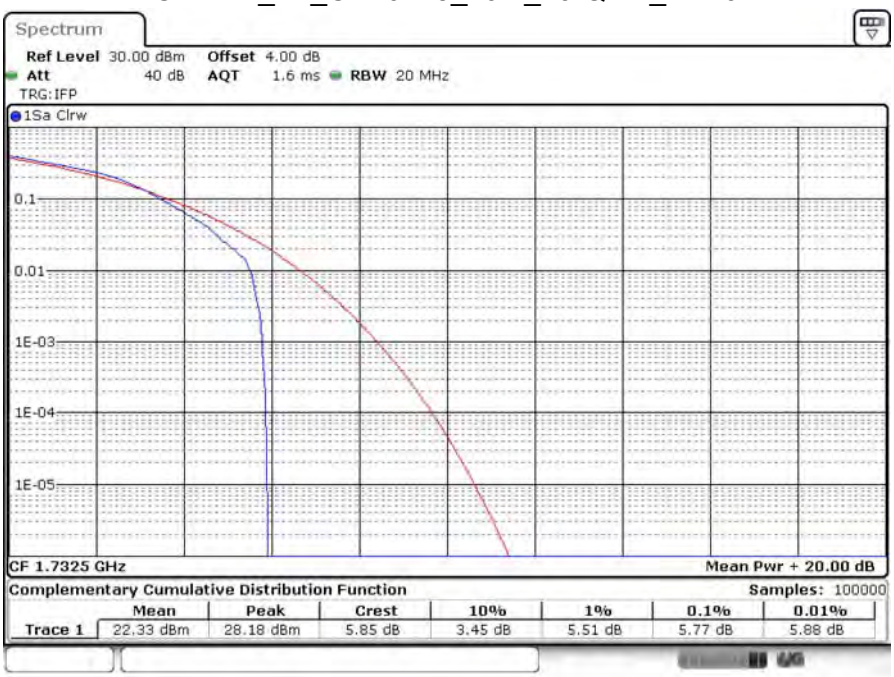

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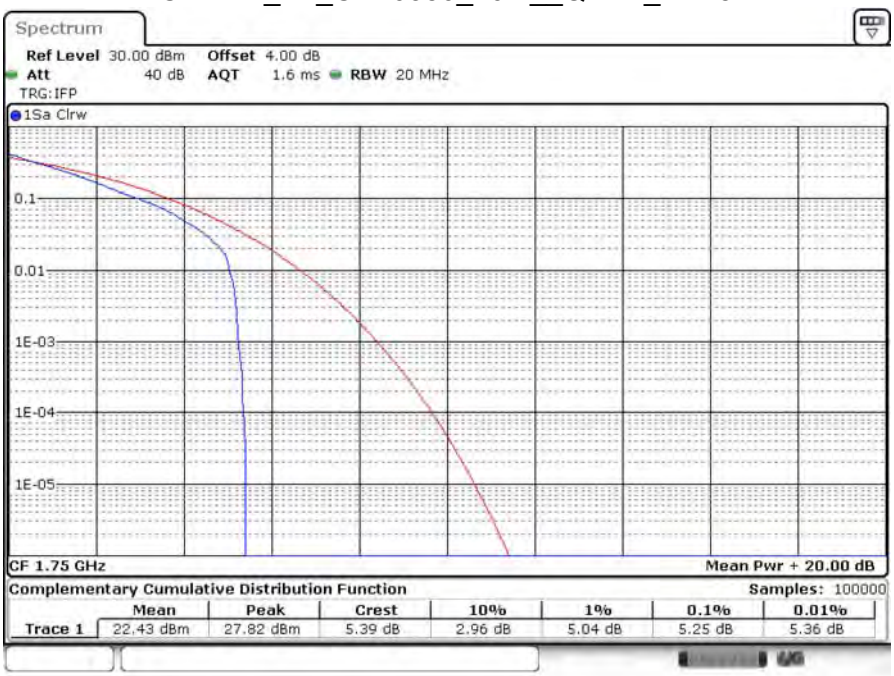
CAT-M1_B4_CH20350_10M__QPSK_1RB5



Date: 18.JAN.2021 14:22:24

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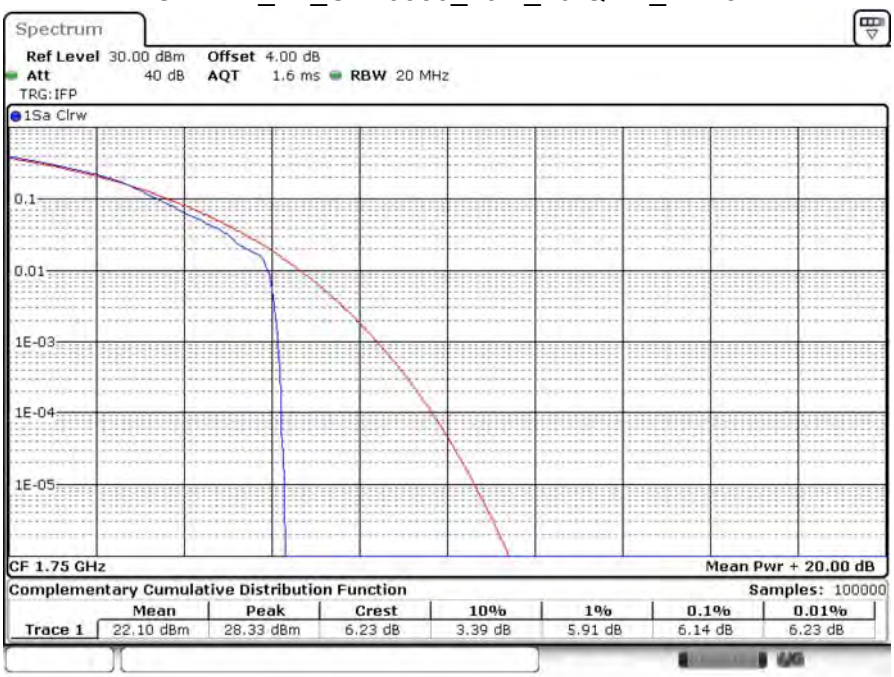
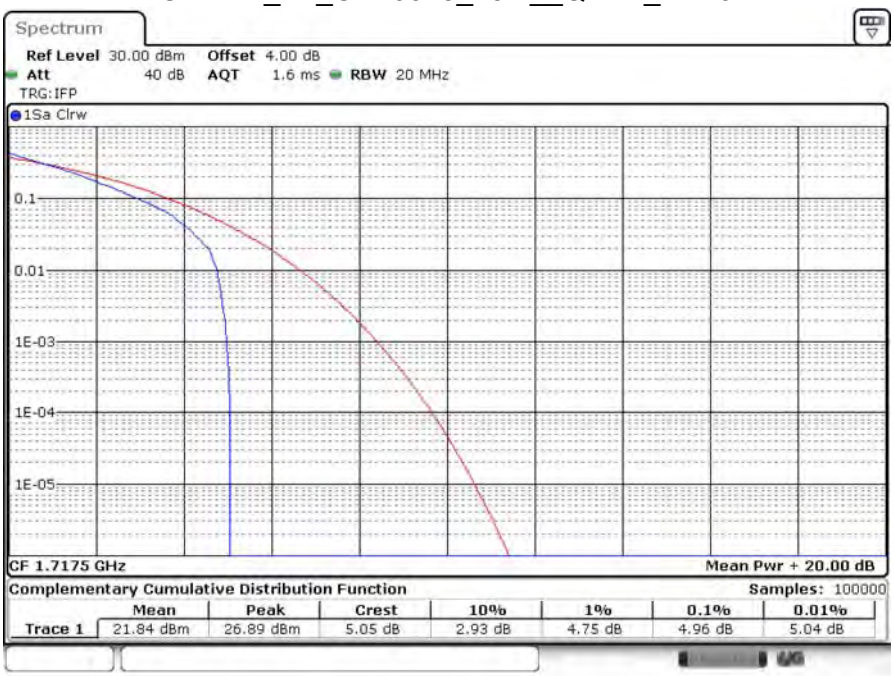


Date: 18.JAN.2021 14:22:09

CAT-M1_B4_CH20025_15M__QPSK_1RB0



Date: 18.JAN.2021 14:27:51

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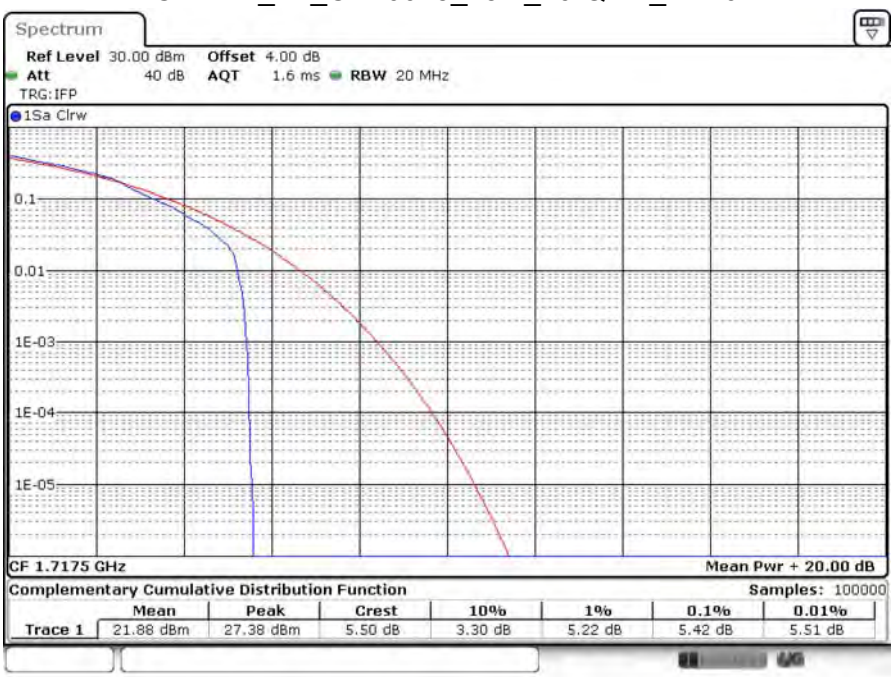

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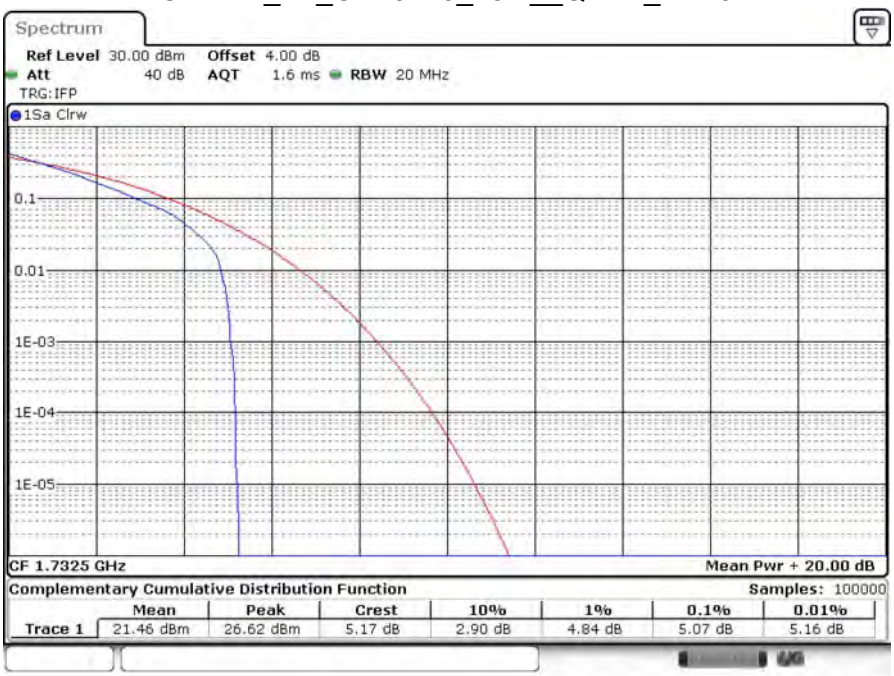

Date: 18.JAN.2021 14:31:03

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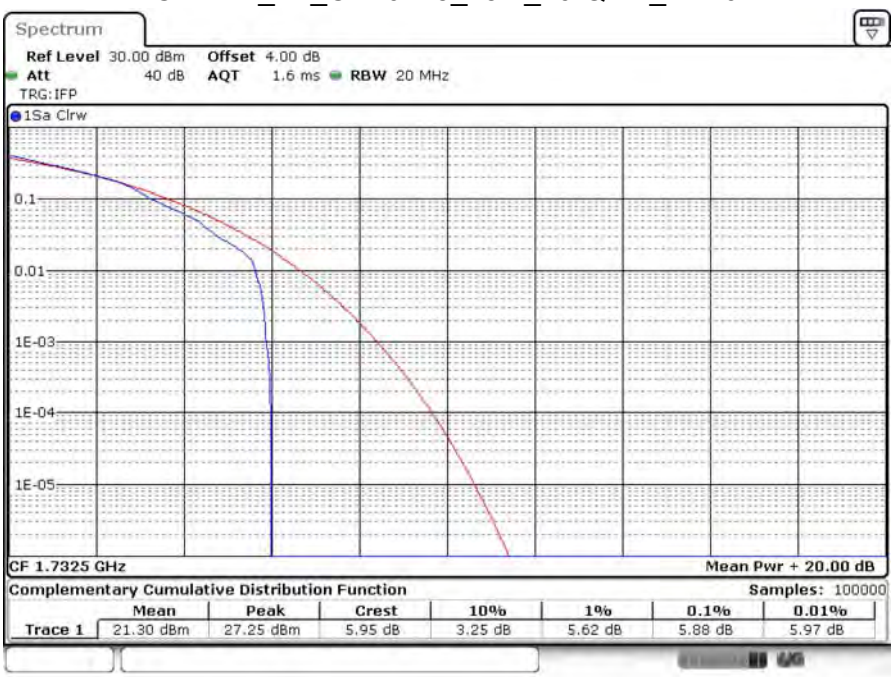

Date: 18.JAN.2021 14:30:14

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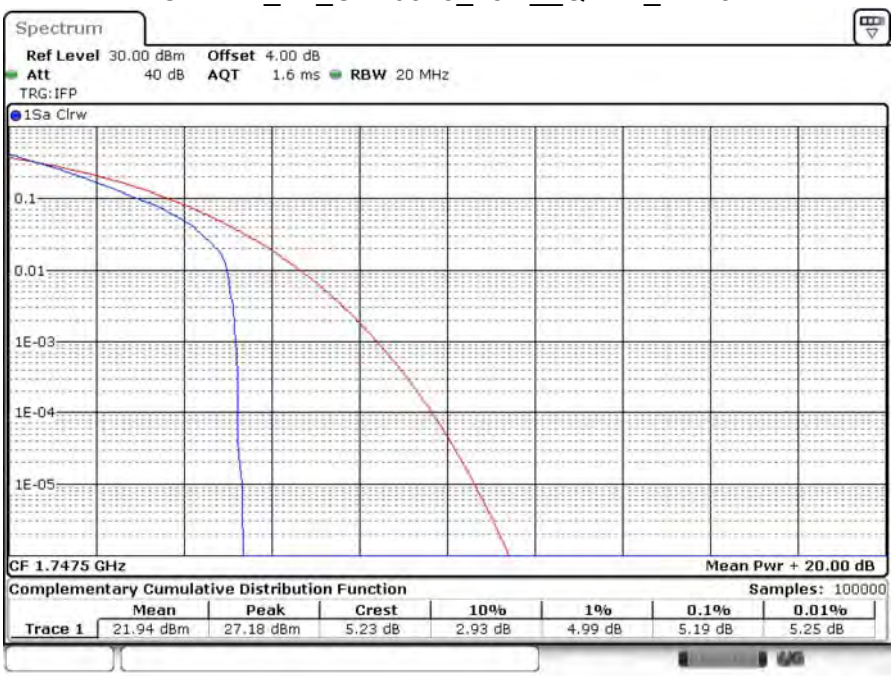

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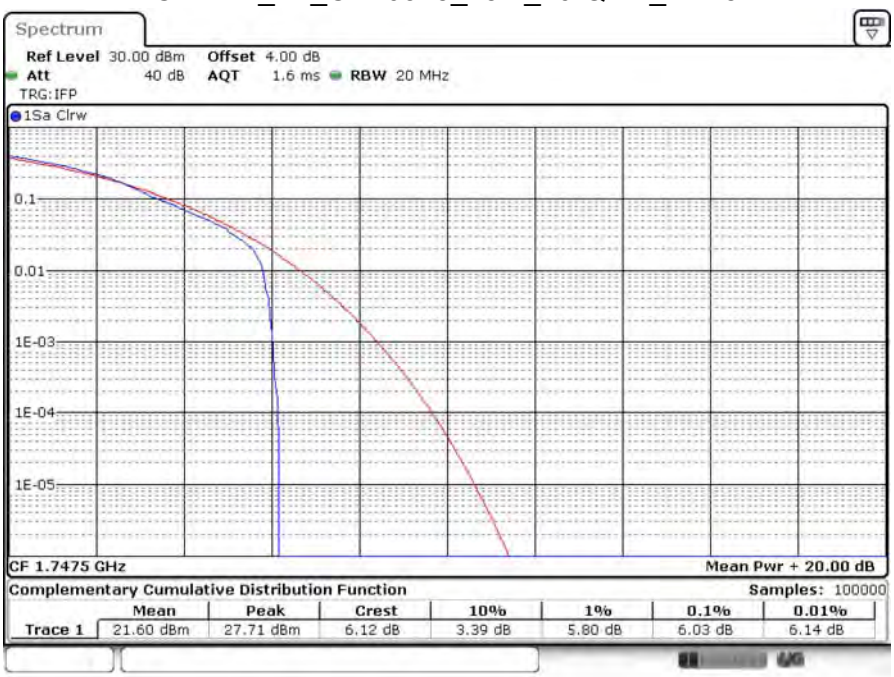

Date: 18.JAN.2021 14:47:02

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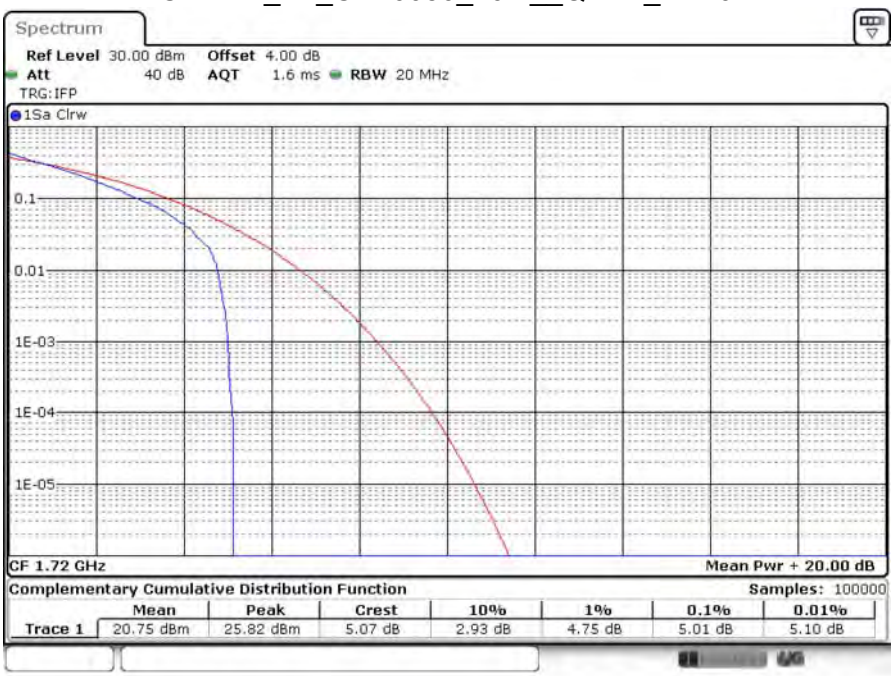
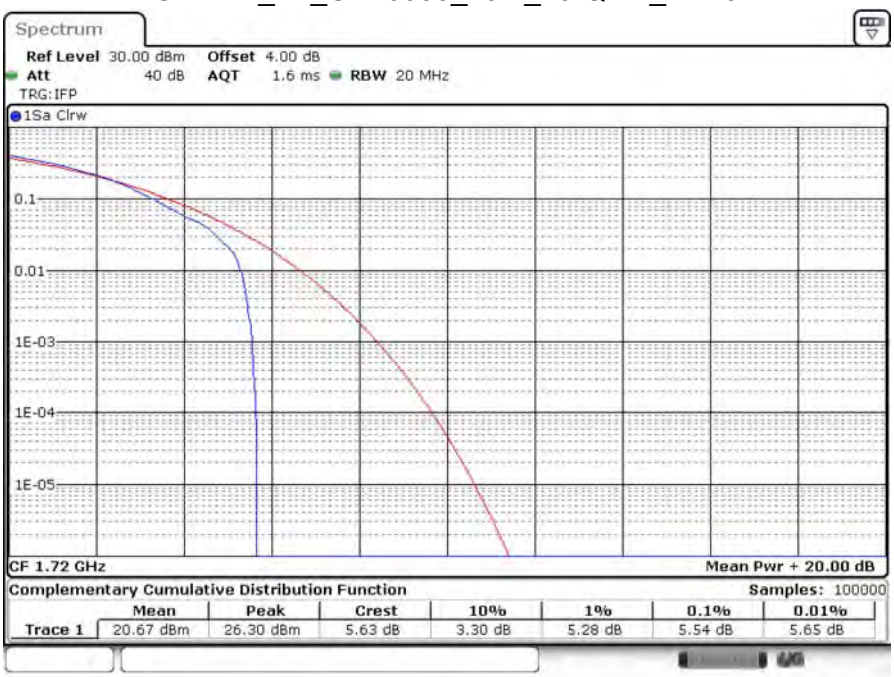


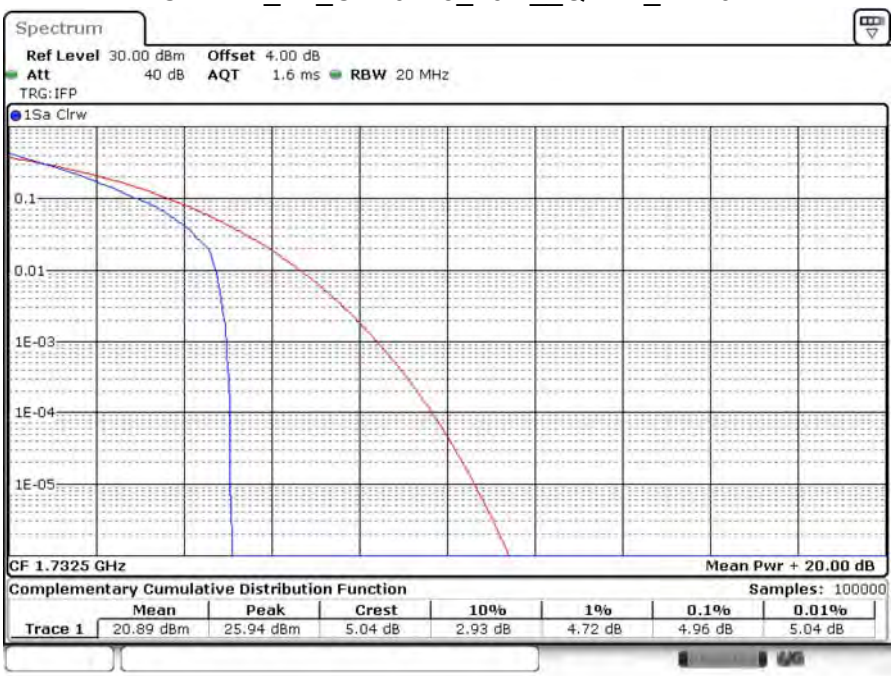
Date: 18.JAN.2021 15:38:07

CAT-M1_B4_CH20050_20M_16-QAM_1RB0



Date: 18.JAN.2021 15:17:30

CAT-M1_B4_CH20175_20M__QPSK_1RB0



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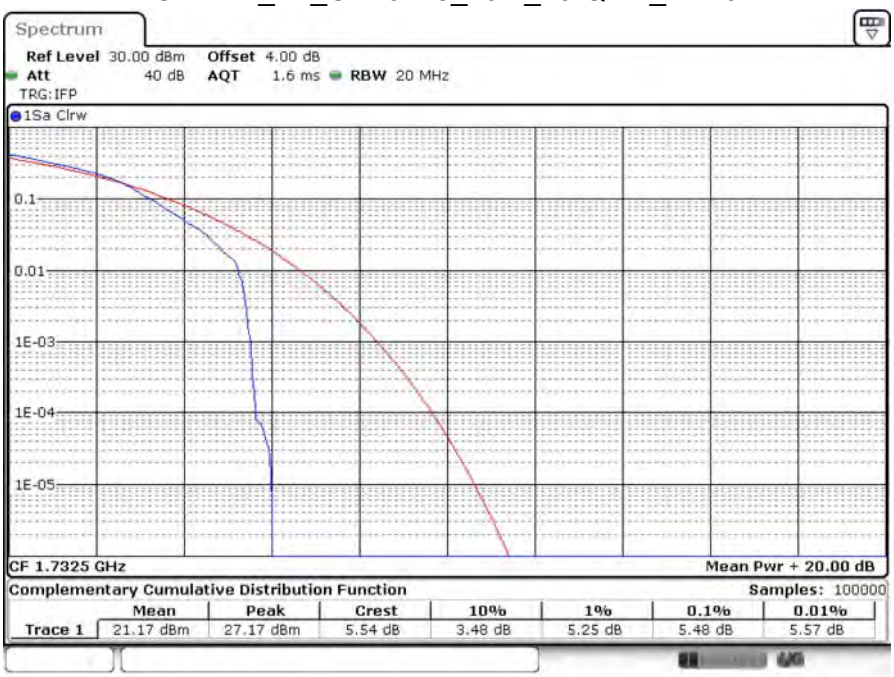
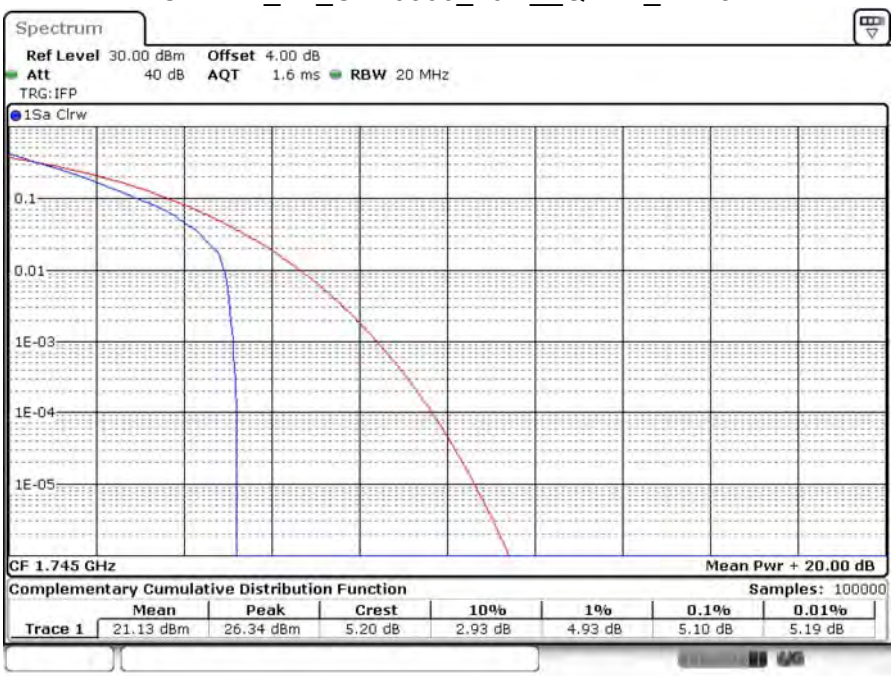


Date: 18.JAN.2021 15:39:36

CAT-M1_B4_CH20300_20M__QPSK_1RB5



Date: 18.JAN.2021 15:40:16

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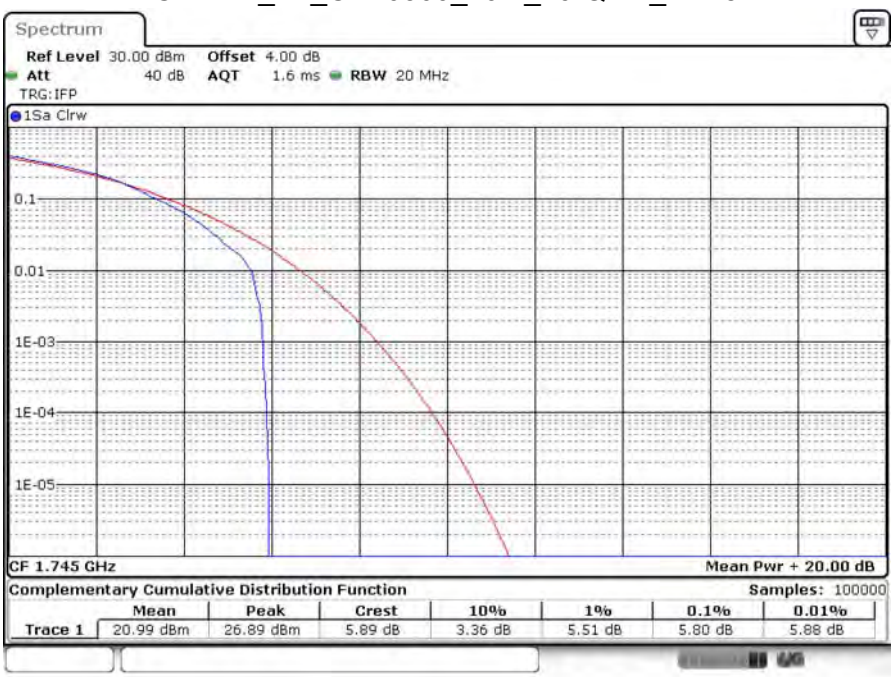

Date: 18.JAN.2021 15:40:05

Product	Connectivity Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 3: Band5 Link		
Date of Test	2021/01/19	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	59

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	20407	824.7	QPSK	28.16	23.63	4.52
			16-QAM	28.22	22.78	5.39
	20525	836.5	QPSK	28.36	23.72	4.61
			16-QAM	28.29	22.65	5.54
	20643	848.3	QPSK	27.43	23.62	3.77
			16-QAM	28.53	22.67	5.77
3M	20415	825.5	QPSK	28.98	23.59	4.46
			16-QAM	28.09	22.75	5.30
	20525	836.5	QPSK	28.21	23.67	4.52
			16-QAM	28.15	22.79	5.36
	20635	847.5	QPSK	28.65	23.65	4.70
			16-QAM	28.46	22.35	6.00
5M	20425	826.5	QPSK	28.38	23.59	4.46
			16-QAM	28.96	23.48	5.07
	20525	836.5	QPSK	28.36	23.39	4.61
			16-QAM	28.53	23.73	4.81
	20625	846.5	QPSK	28.30	23.66	4.58
			16-QAM	28.74	23.83	4.93
10M	20450	829	QPSK	27.70	23.02	4.46
			16-QAM	27.97	23.14	4.81
	20525	836.5	QPSK	28.32	23.11	4.49
			16-QAM	28.57	22.56	5.39
	20600	844	QPSK	28.07	23.25	4.61
			16-QAM	28.58	23.28	5.16

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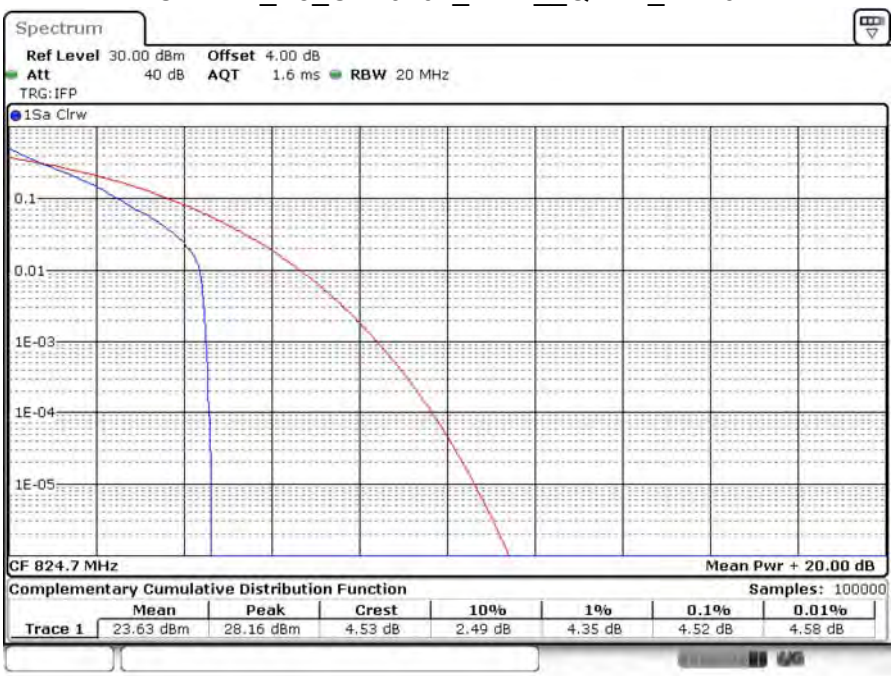

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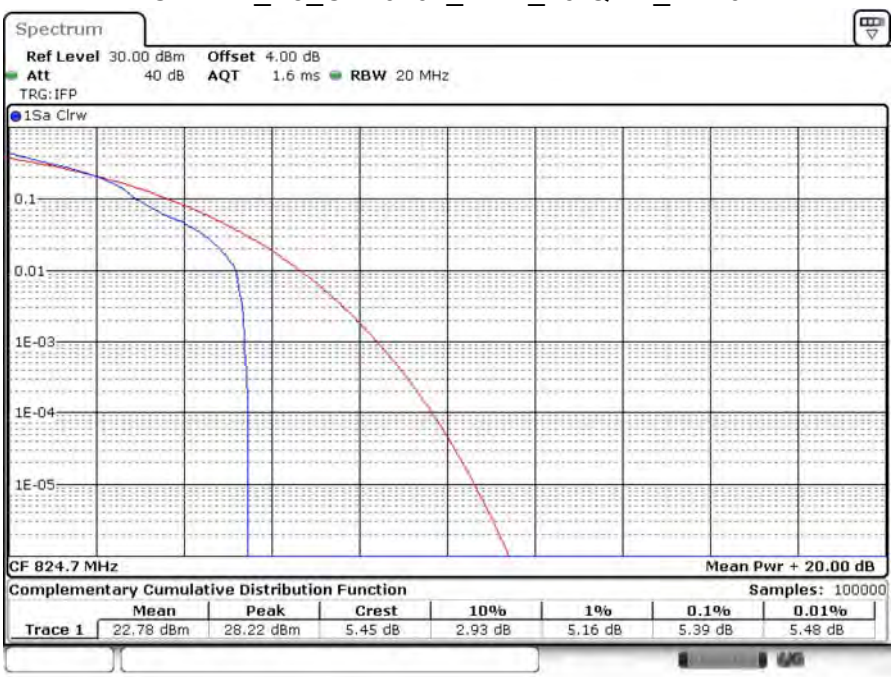

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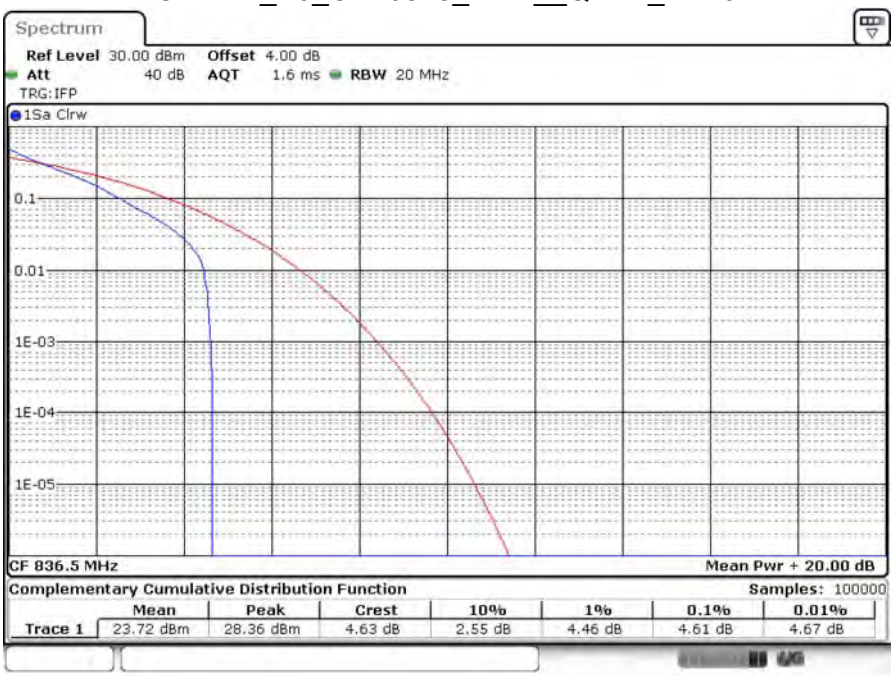

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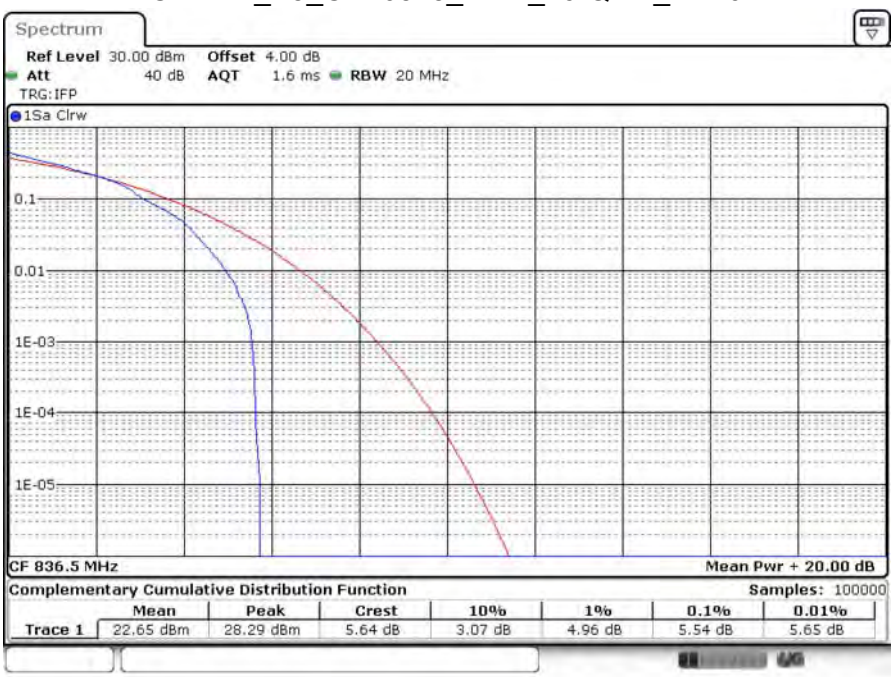

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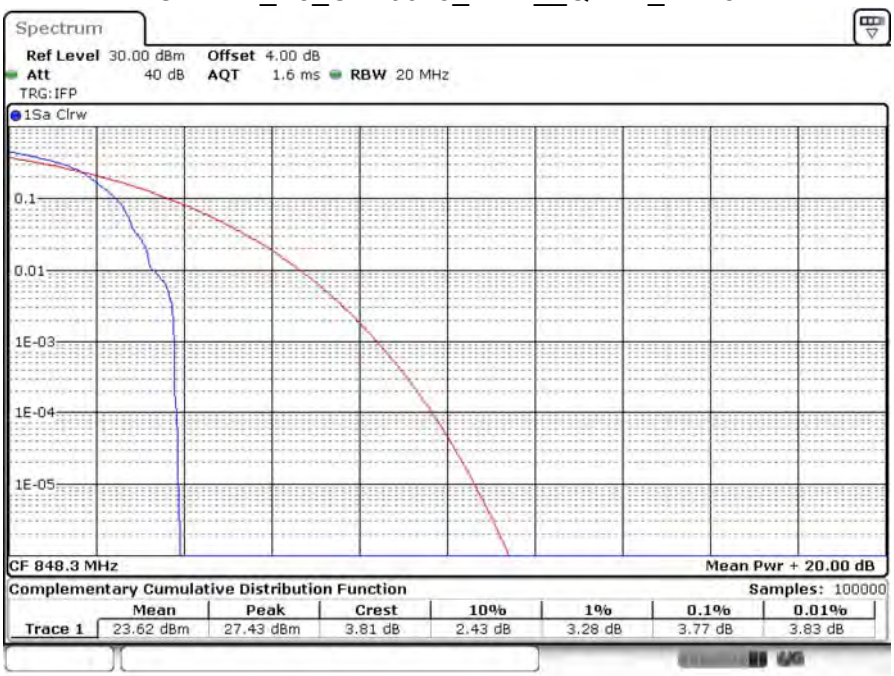

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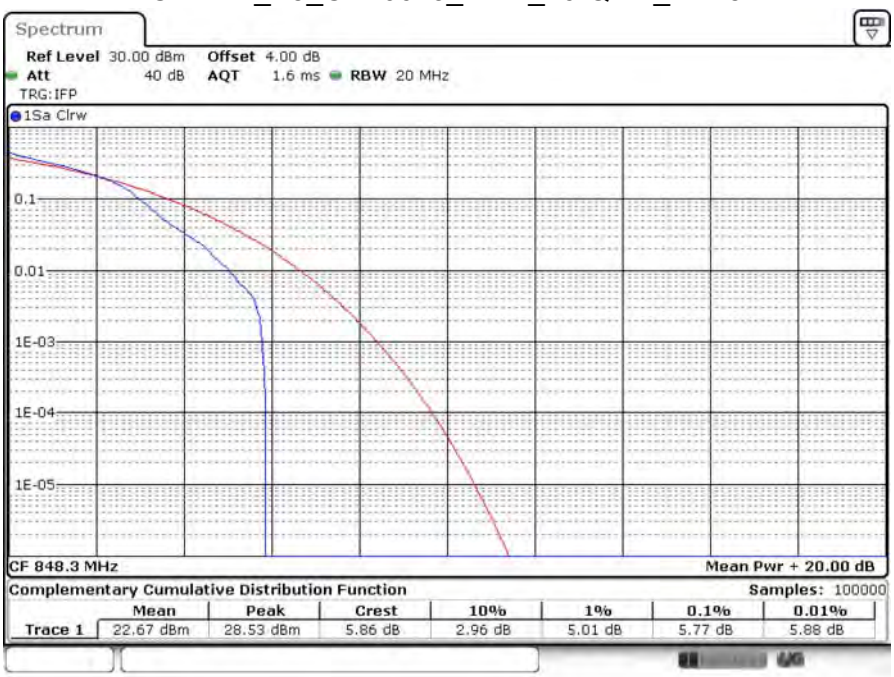

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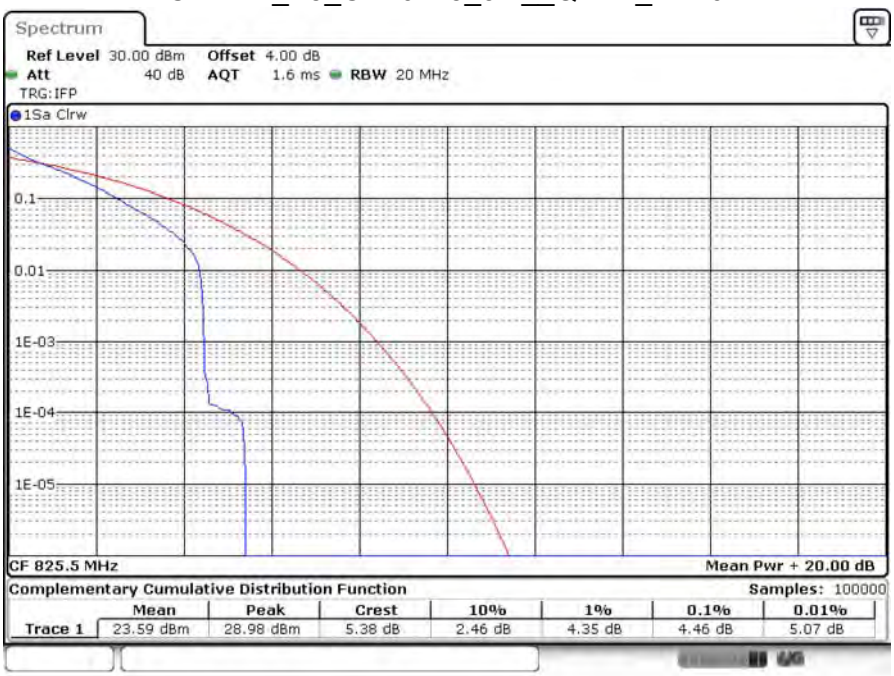

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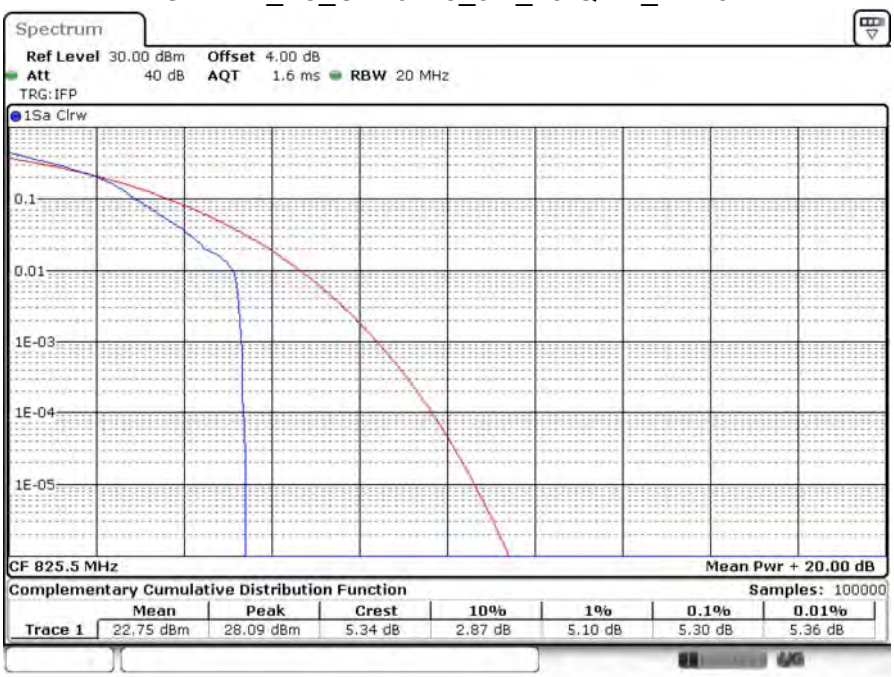

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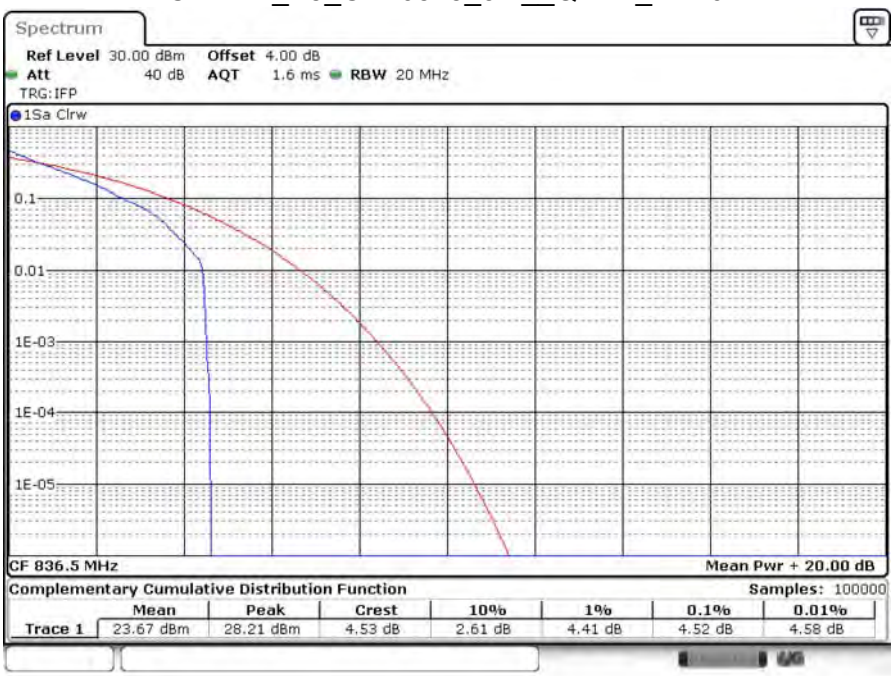

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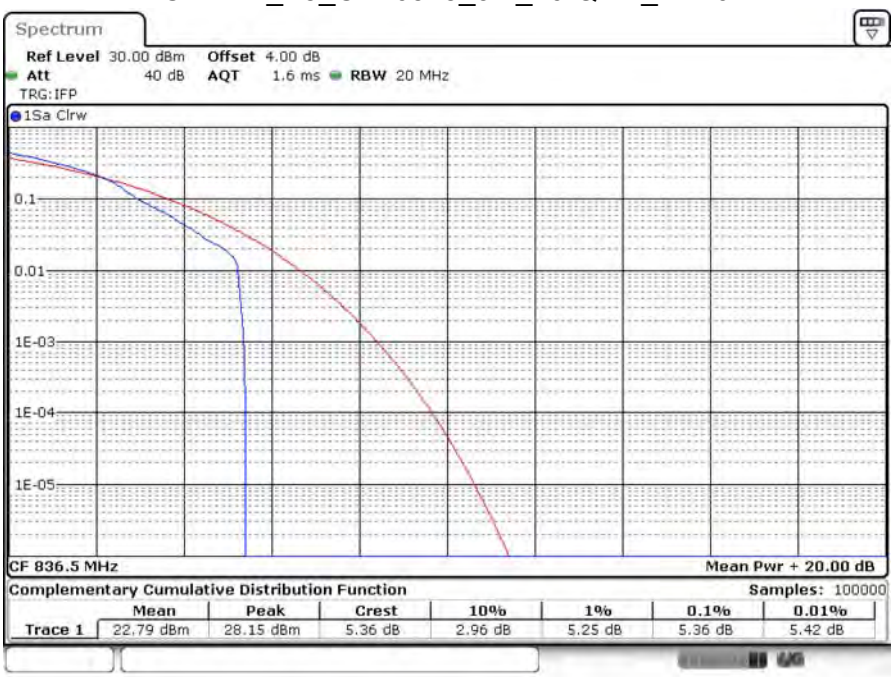

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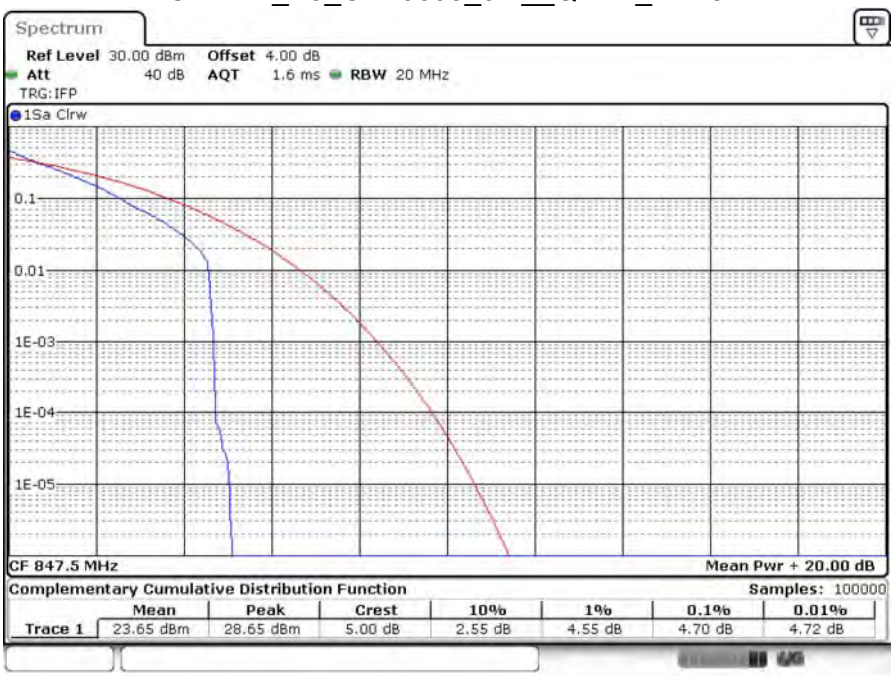

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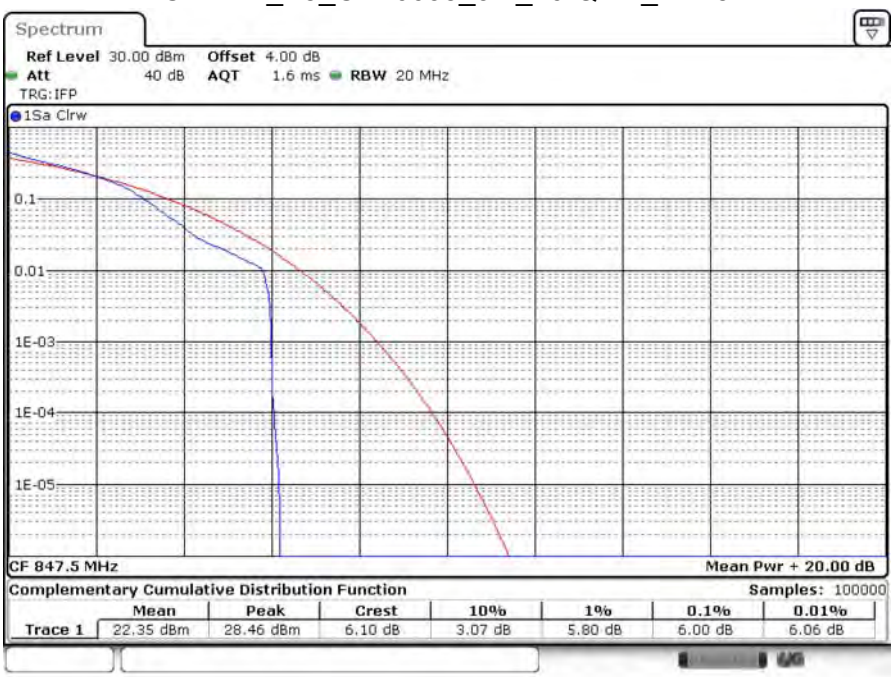

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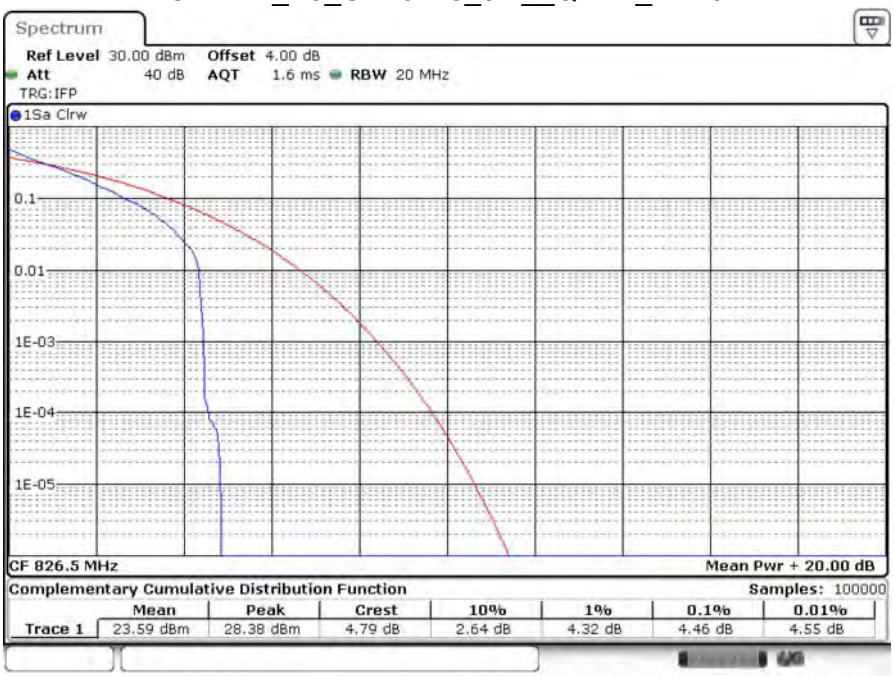

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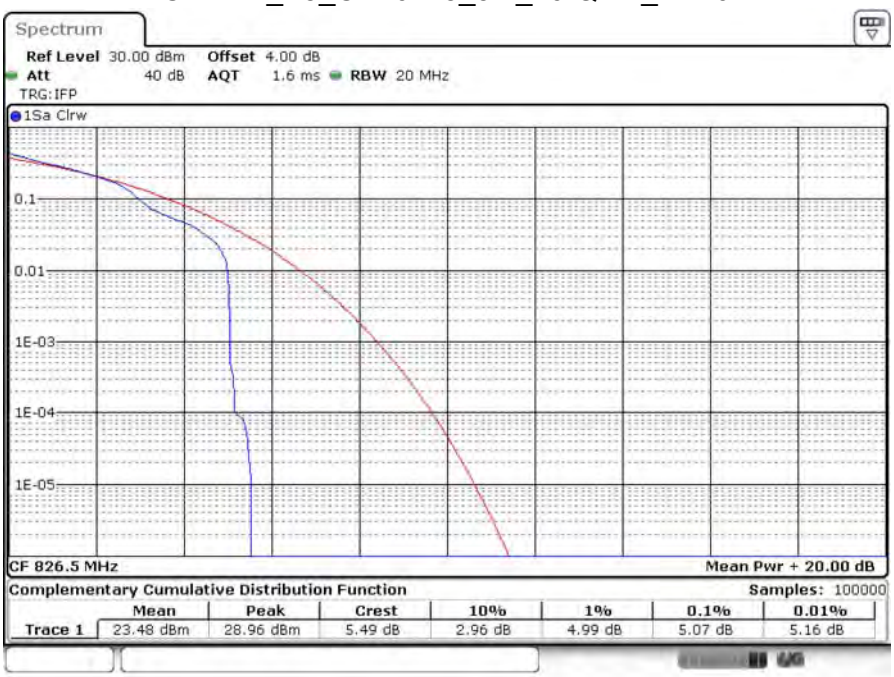

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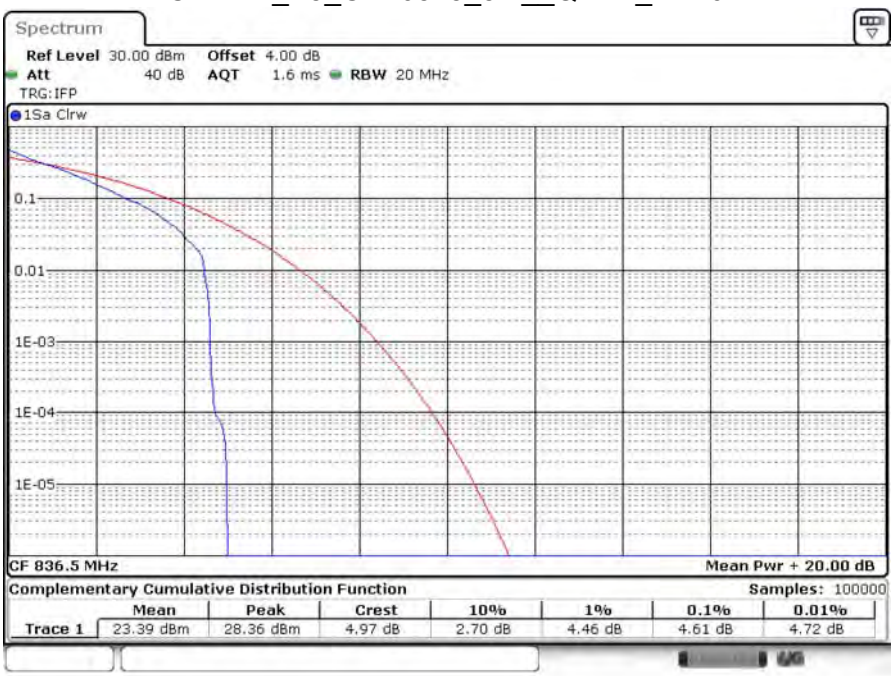

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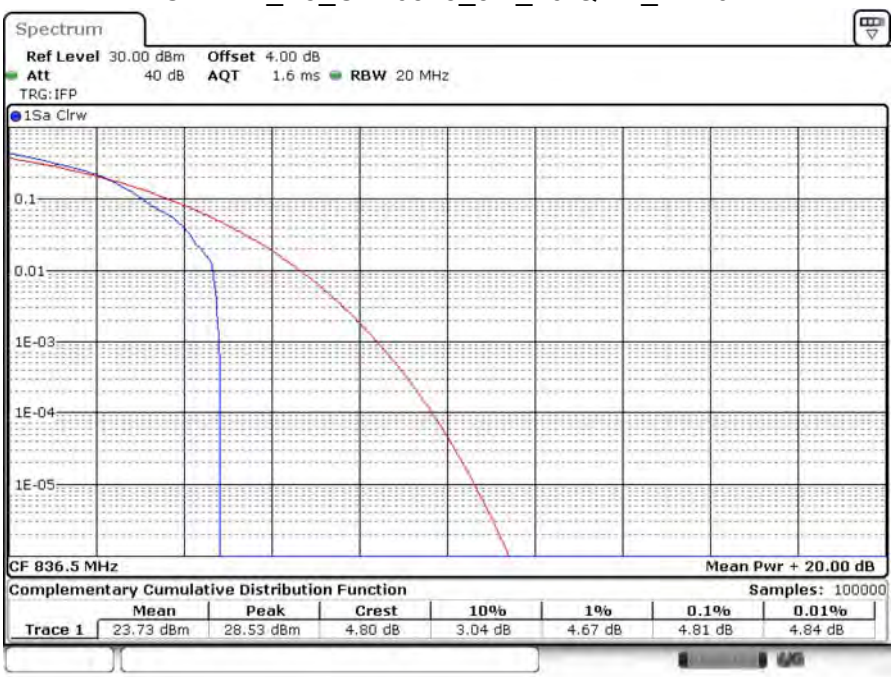

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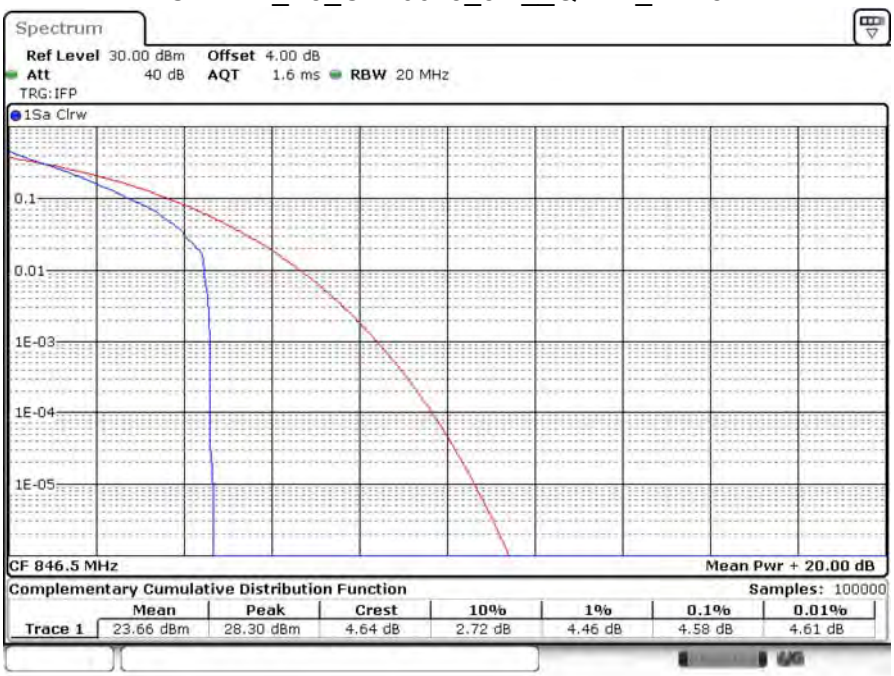

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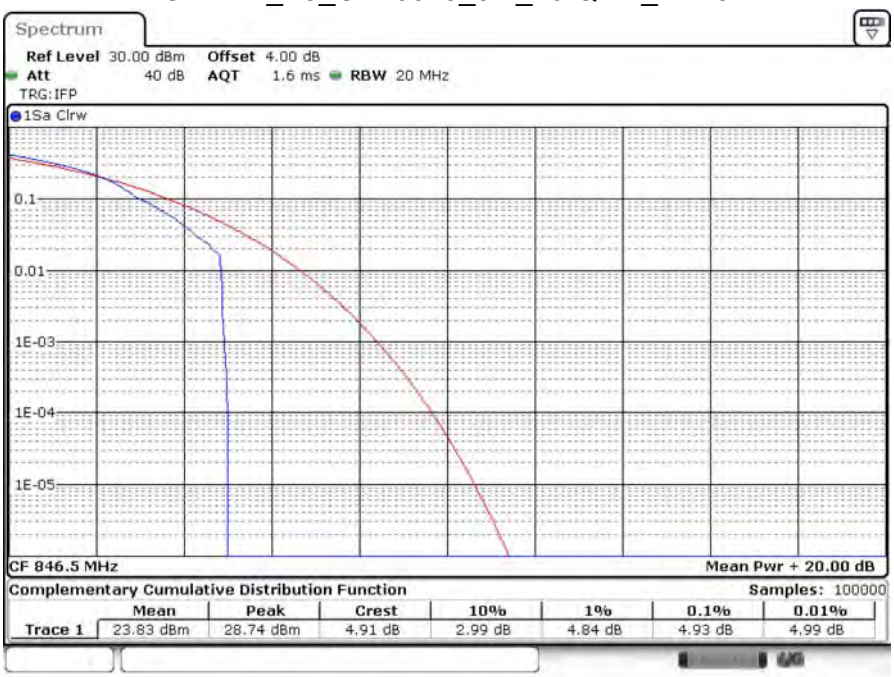

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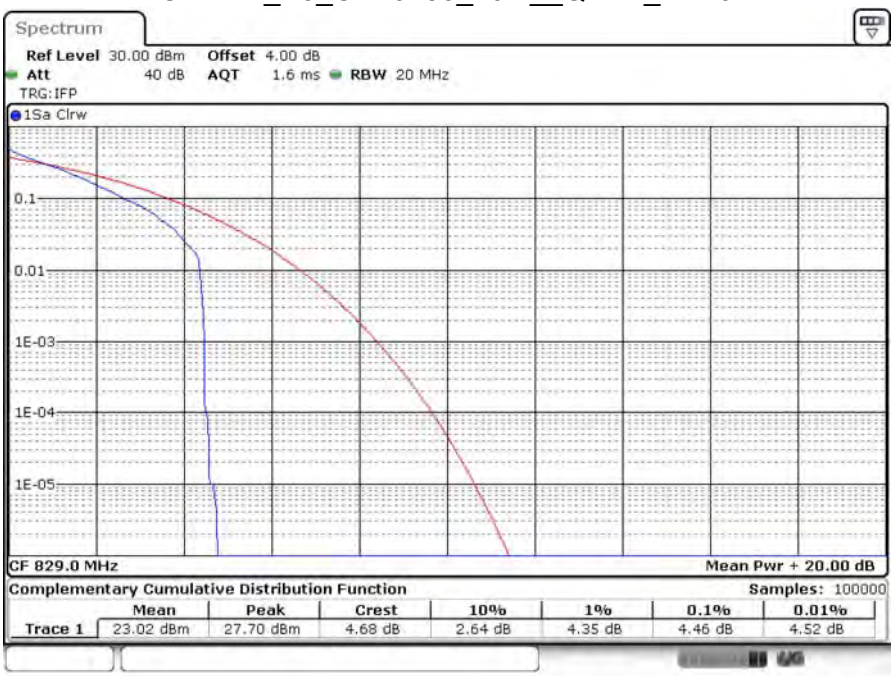

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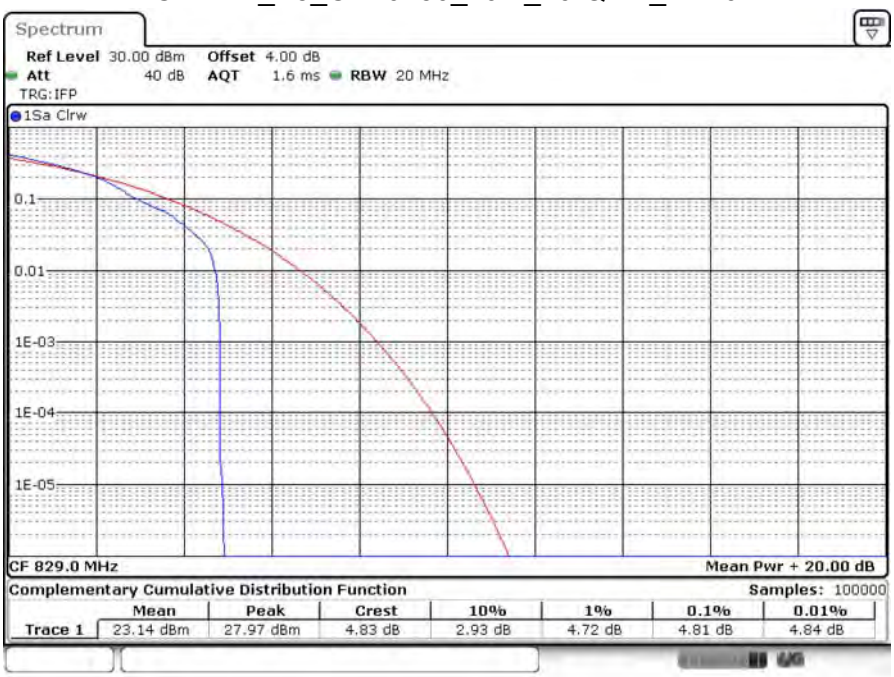

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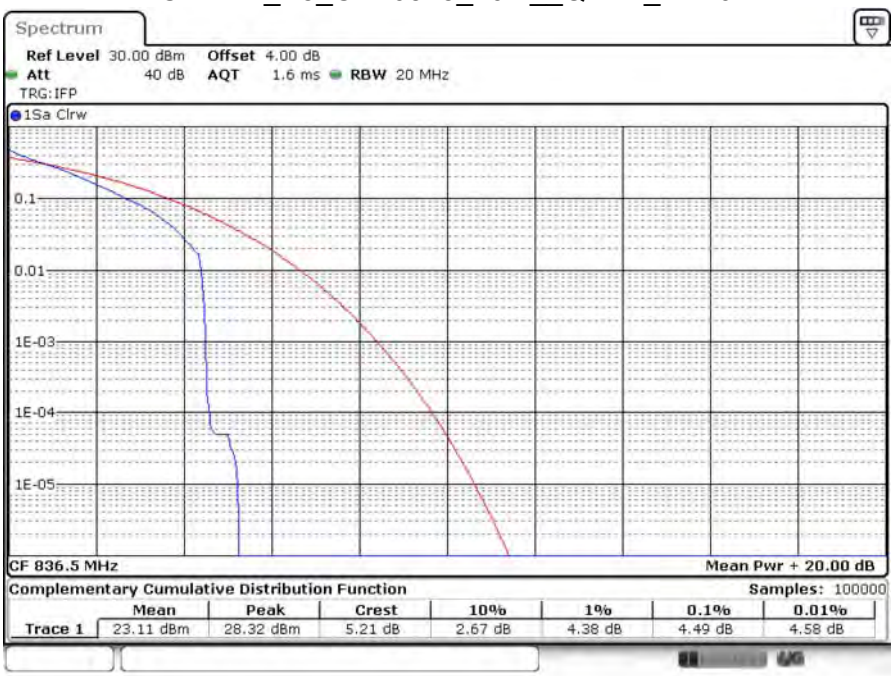

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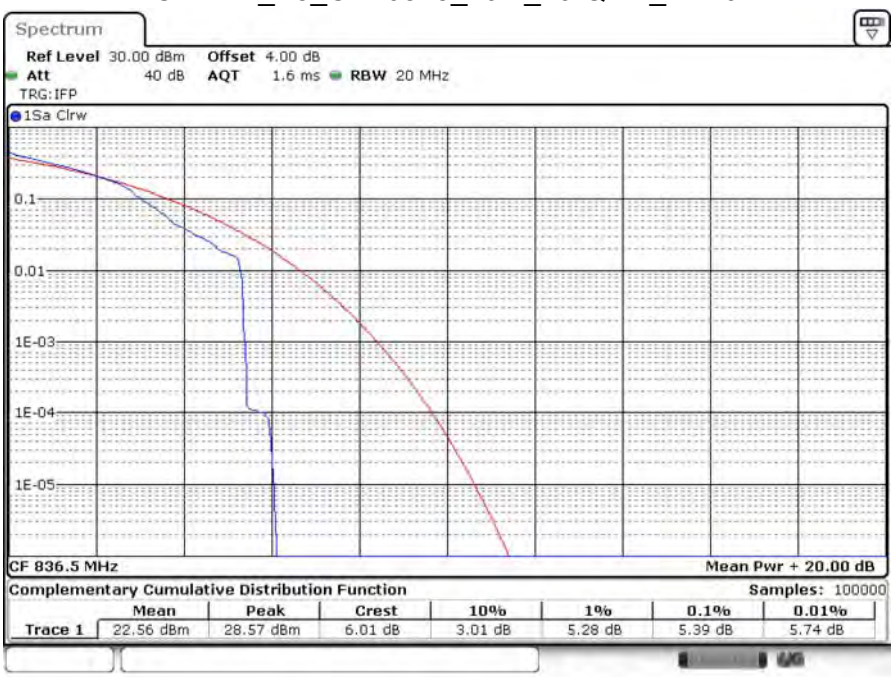

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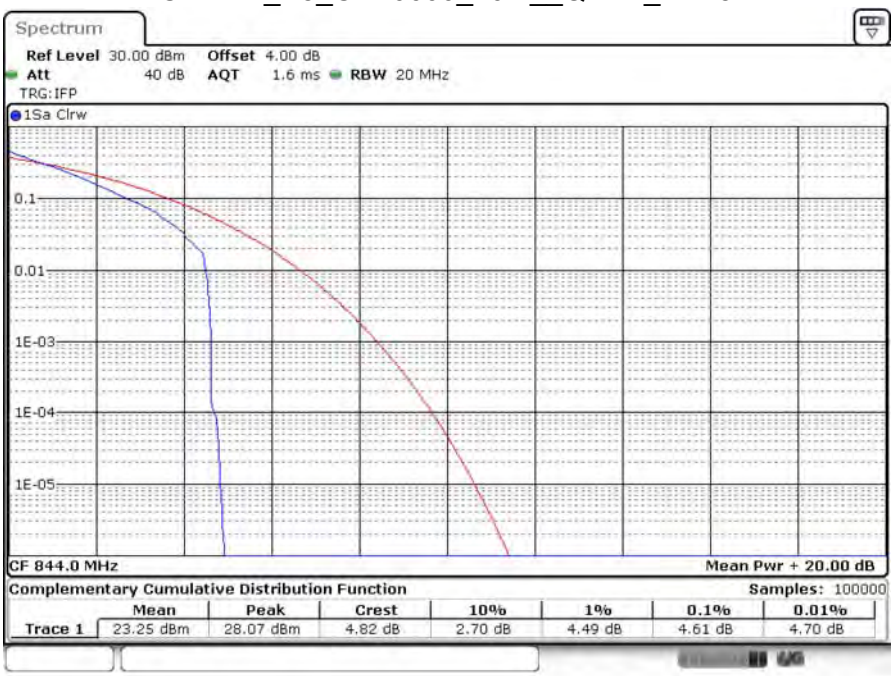

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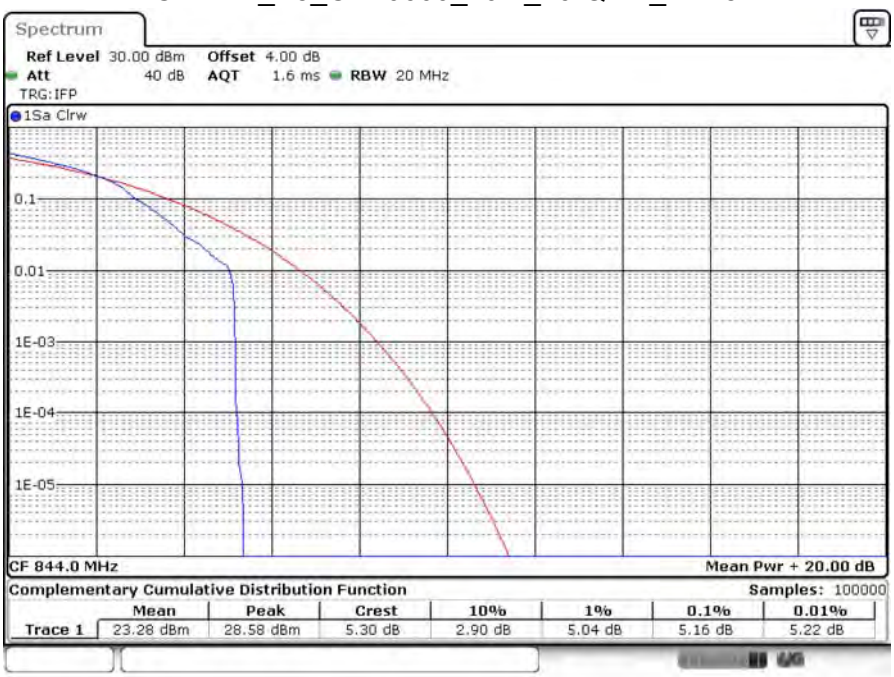
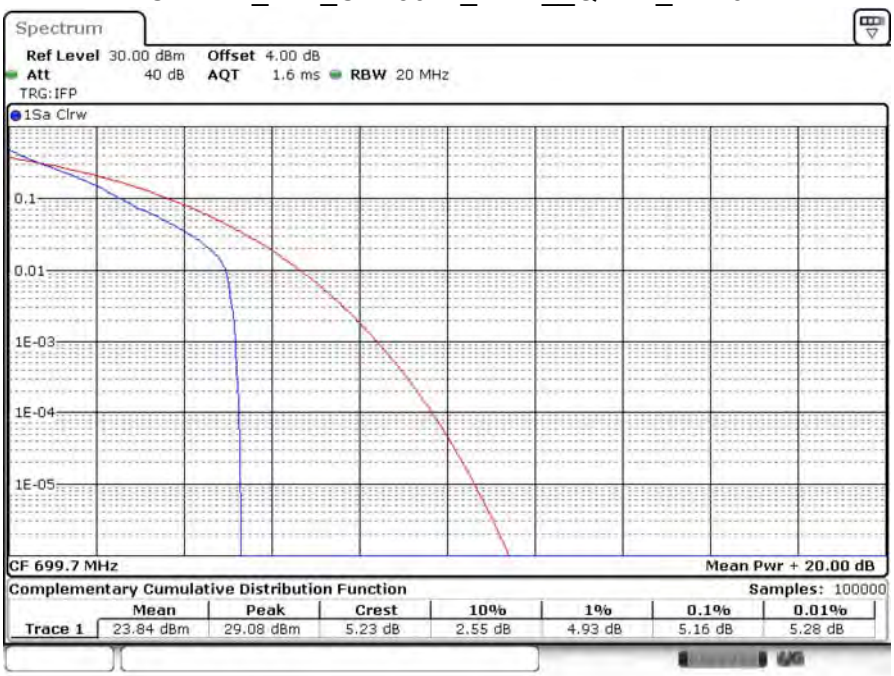


Date: 18.JAN.2021 16:13:37

Product	Connectivity Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 4: Band12 Link		
Date of Test	2021/01/19	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	59

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	23017	699.7	QPSK	29.08	23.84	5.16
			16-QAM	29.06	22.58	6.41
	23095	707..5	QPSK	28.92	23.73	5.13
			16-QAM	28.68	22.50	6.09
	23173	715.3	QPSK	28.79	23.76	5.01
			16-QAM	28.92	22.87	5.97
3M	23025	700.5	QPSK	28.74	23.66	5.04
			16-QAM	28.76	23.05	5.65
	23095	707..5	QPSK	29.94	23.42	5.07
			16-QAM	28.72	22.96	5.68
	23165	714.5	QPSK	29.45	23.53	4.96
			16-QAM	29.30	22.80	5.71
5M	23035	701.5	QPSK	29.78	23.86	4.99
			16-QAM	30.27	24.00	5.74
	23095	707..5	QPSK	29.14	23.29	5.01
			16-QAM	29.24	23.16	5.86
	23155	713.5	QPSK	28.38	23.44	4.90
			16-QAM	28.87	23.30	5.57
10M	23060	704	QPSK	29.67	23.25	4.99
			16-QAM	29.11	23.17	5.94
	23095	707..5	QPSK	28.45	23.18	4.99
			16-QAM	28.73	22.84	5.86
	23130	711	QPSK	28.86	23.15	4.96
			16-QAM	28.90	21.91	6.96

CAT-M1_B12_CH23017_1.4M__QPSK_1RB0



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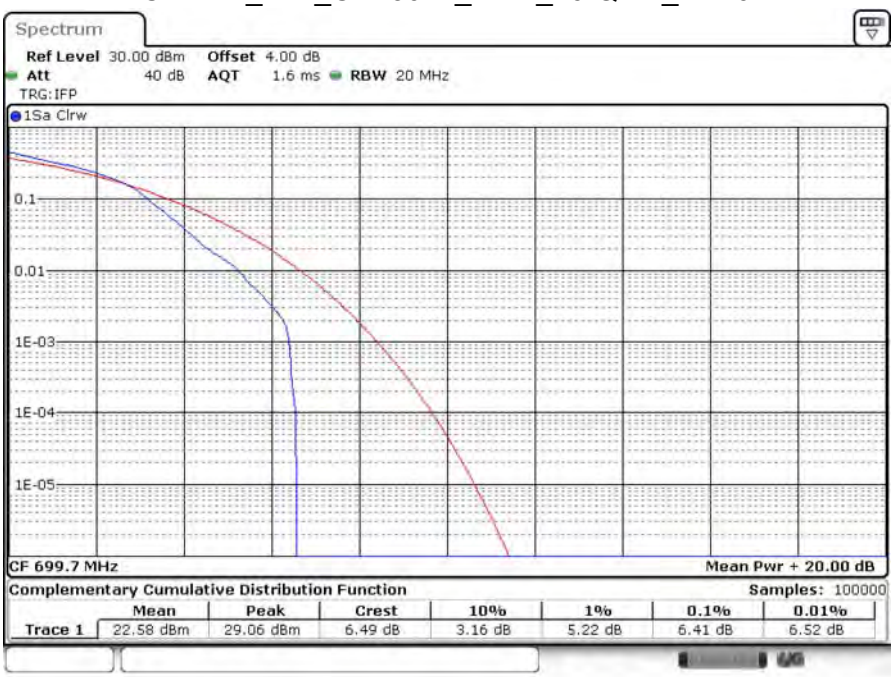

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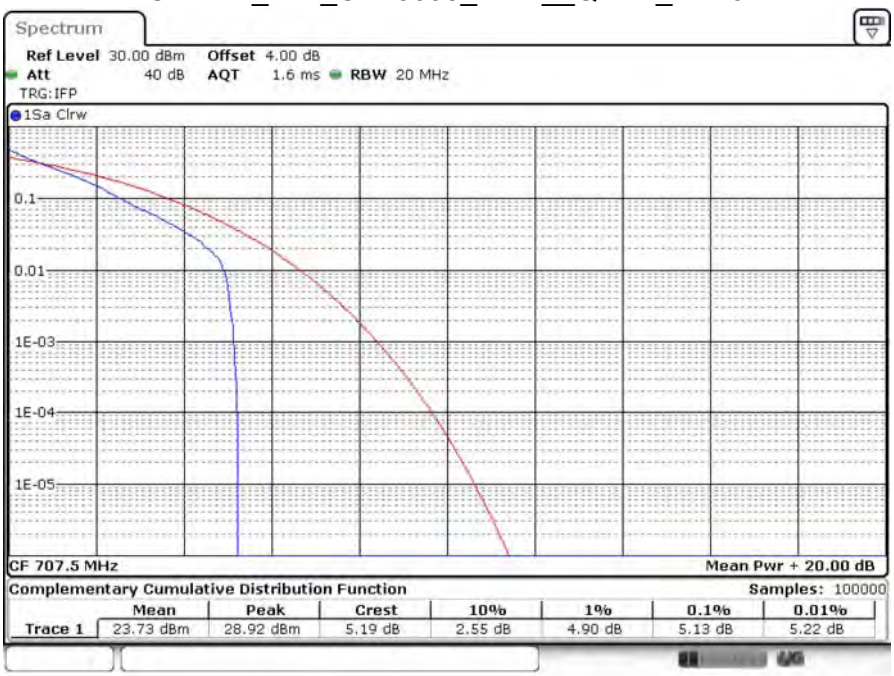

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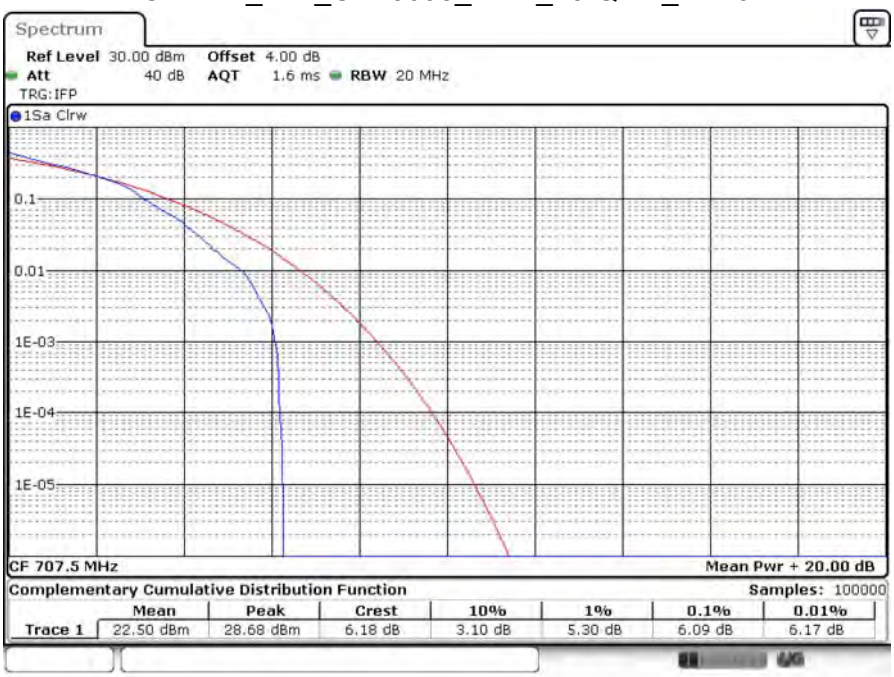

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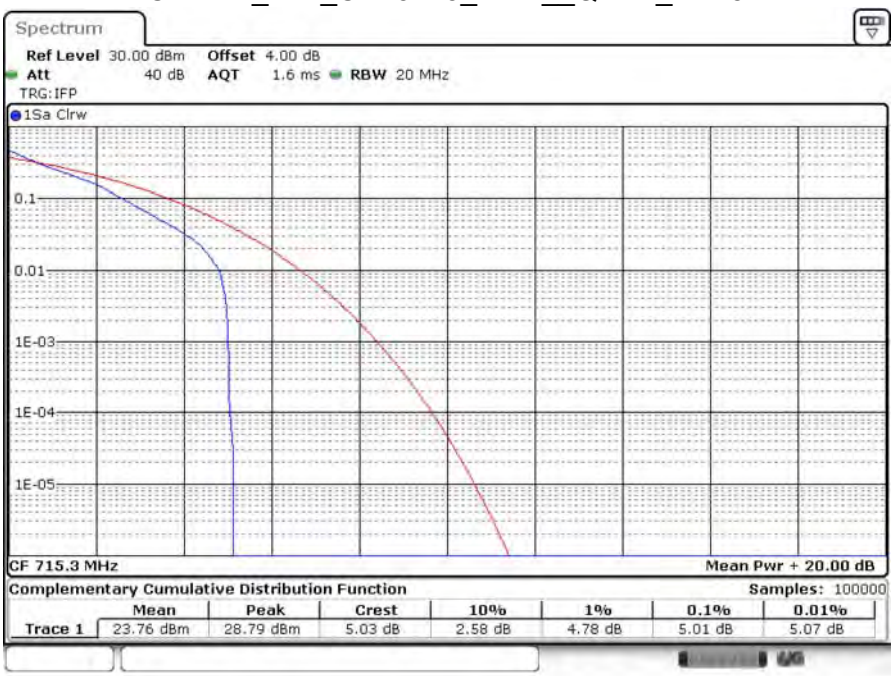

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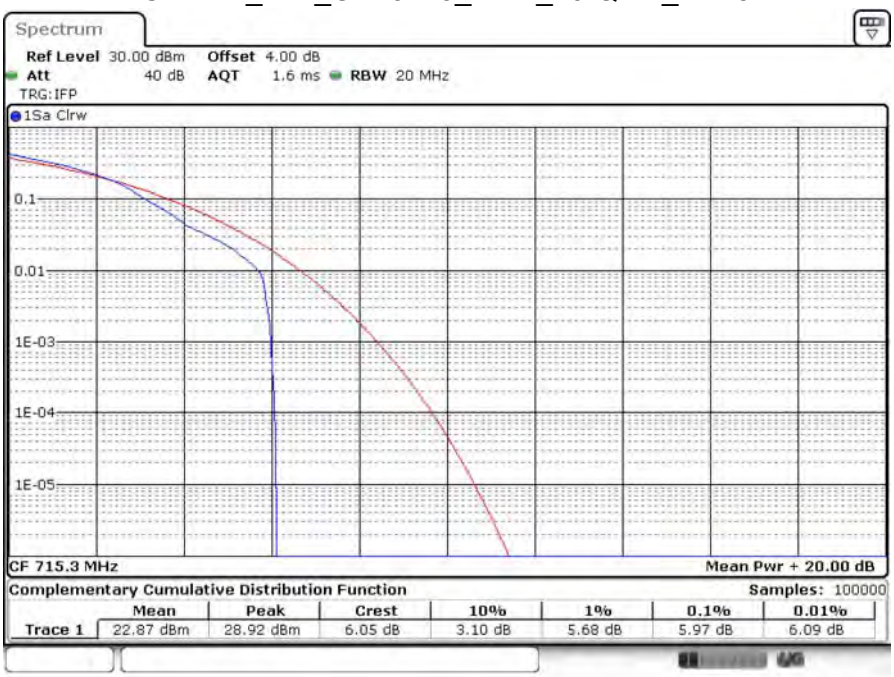

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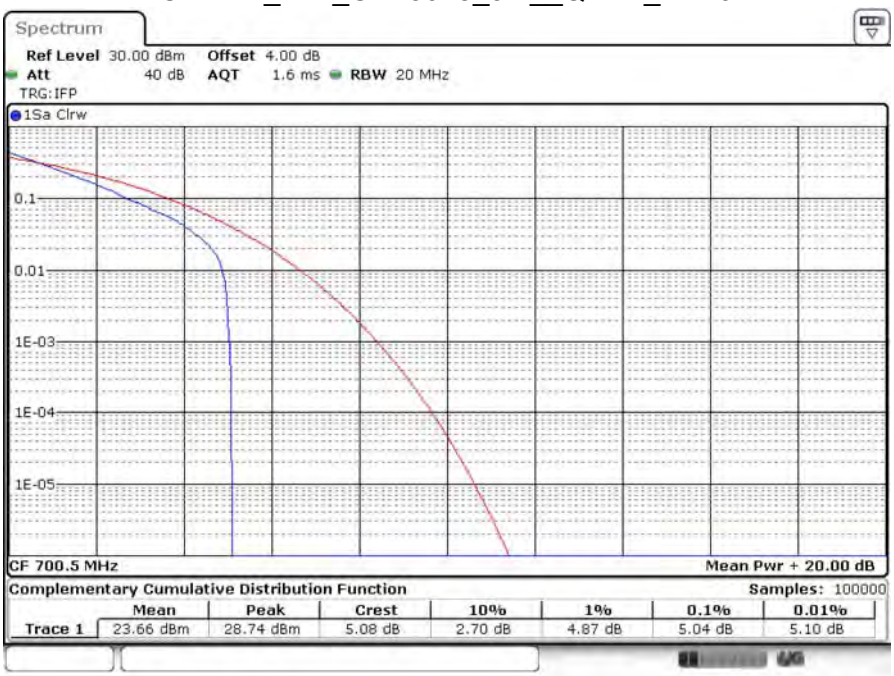

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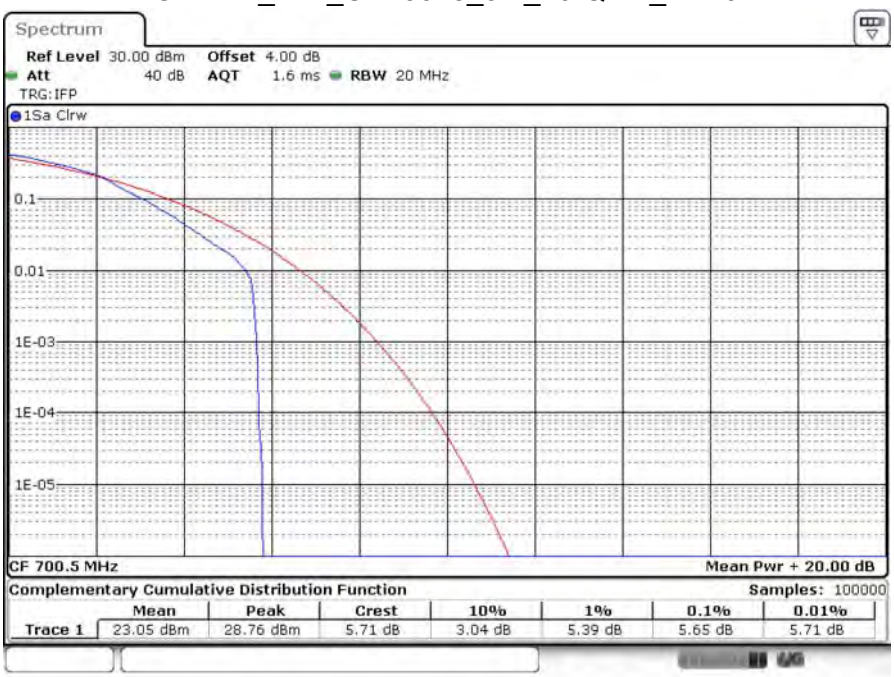

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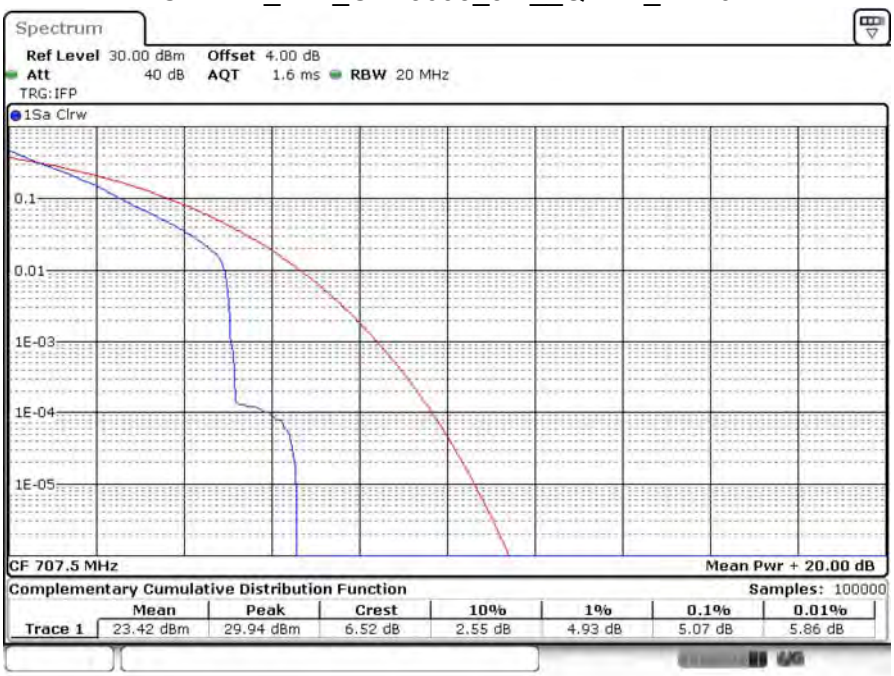

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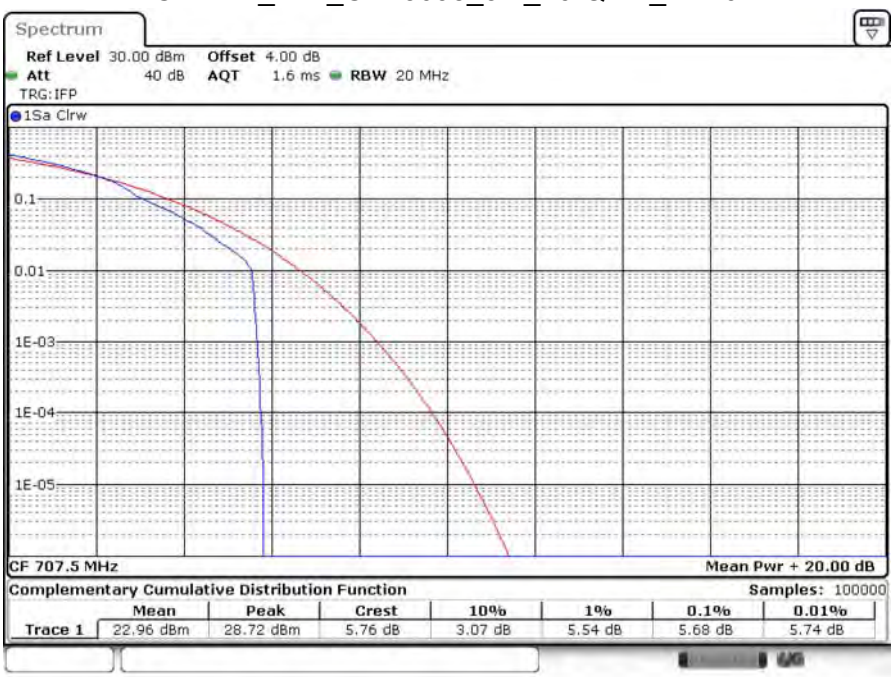

Date: 18.JAN.2021 17:00:40

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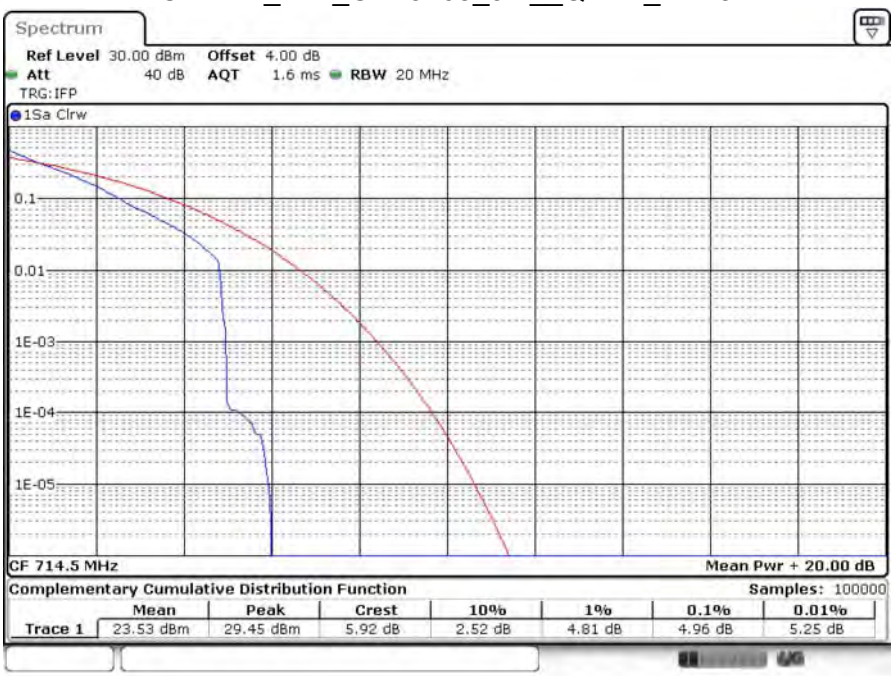

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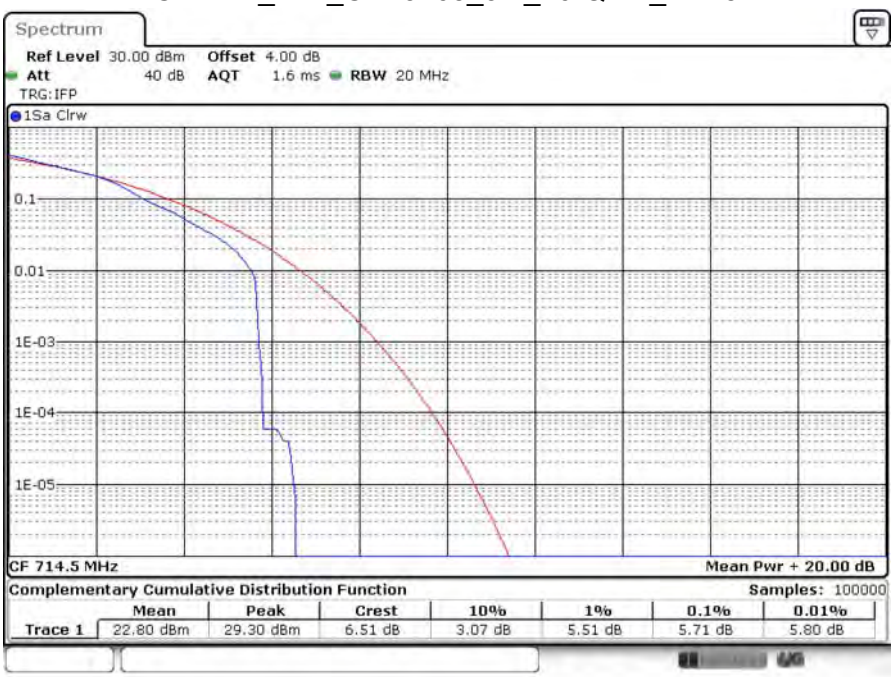

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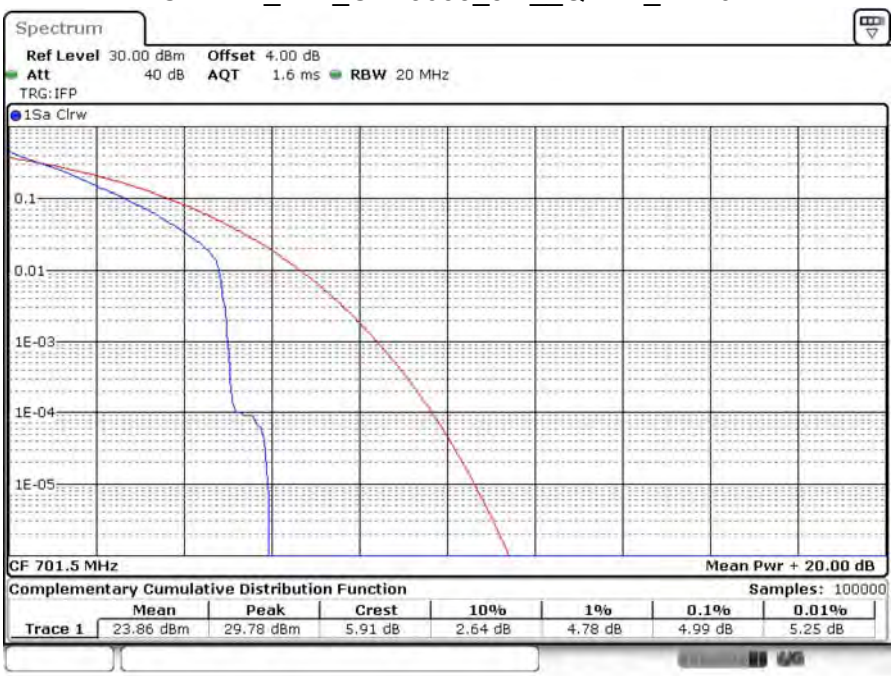

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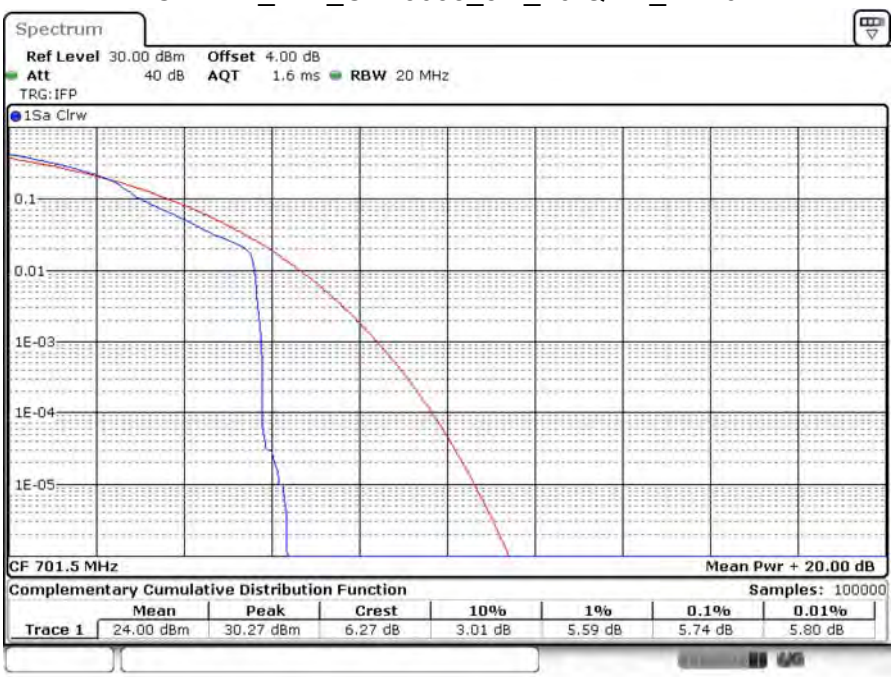

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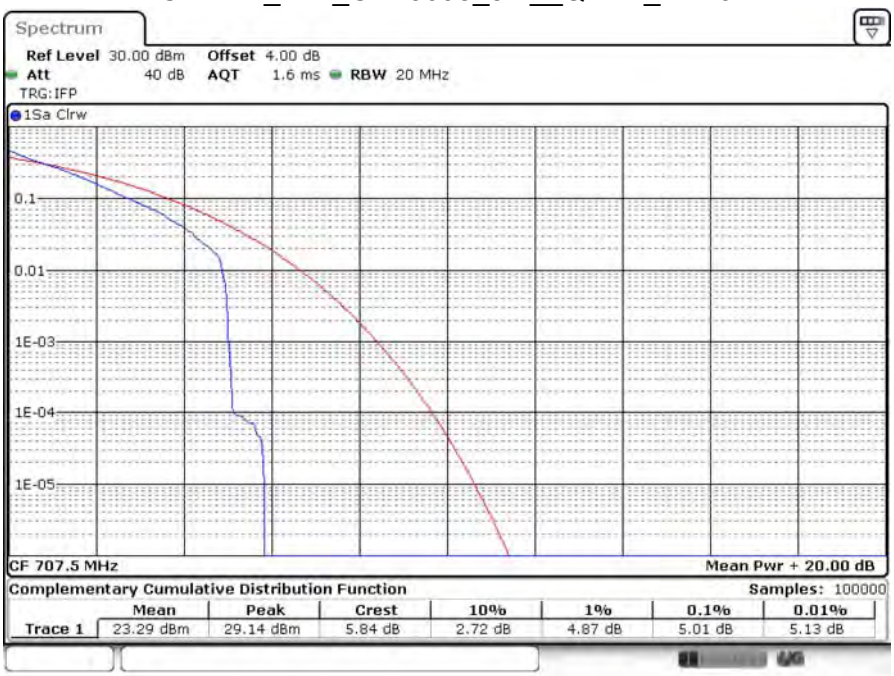
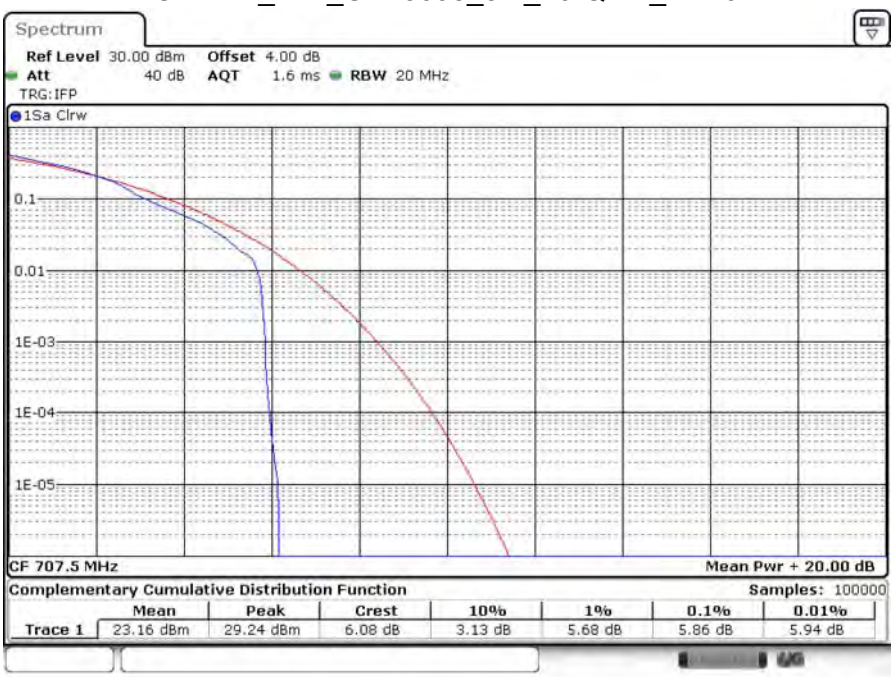


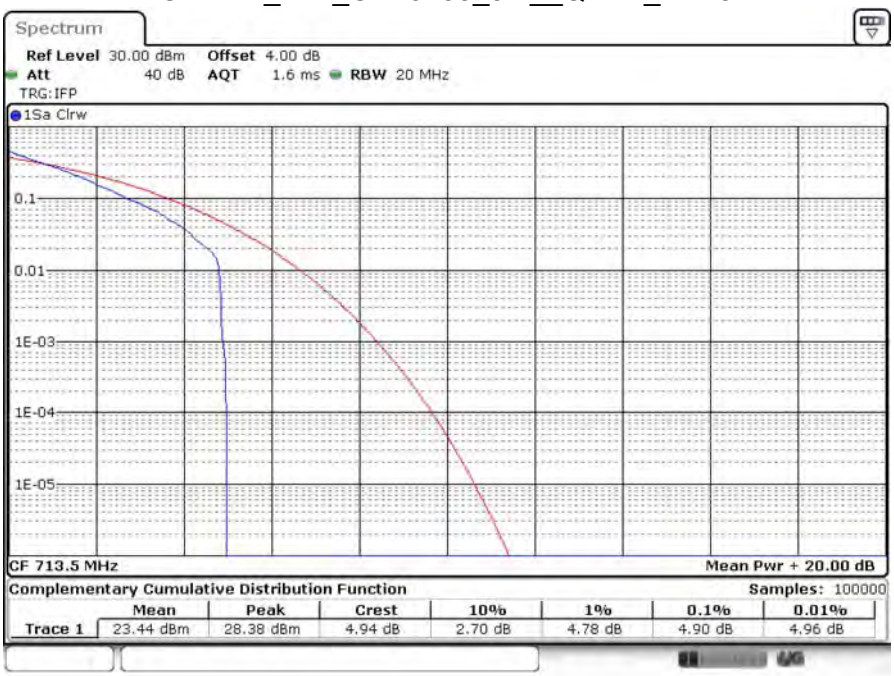
Date: 18.JAN.2021 17:16:02

CAT-M1_B12_CH23095_5M_16-QAM_1RB0



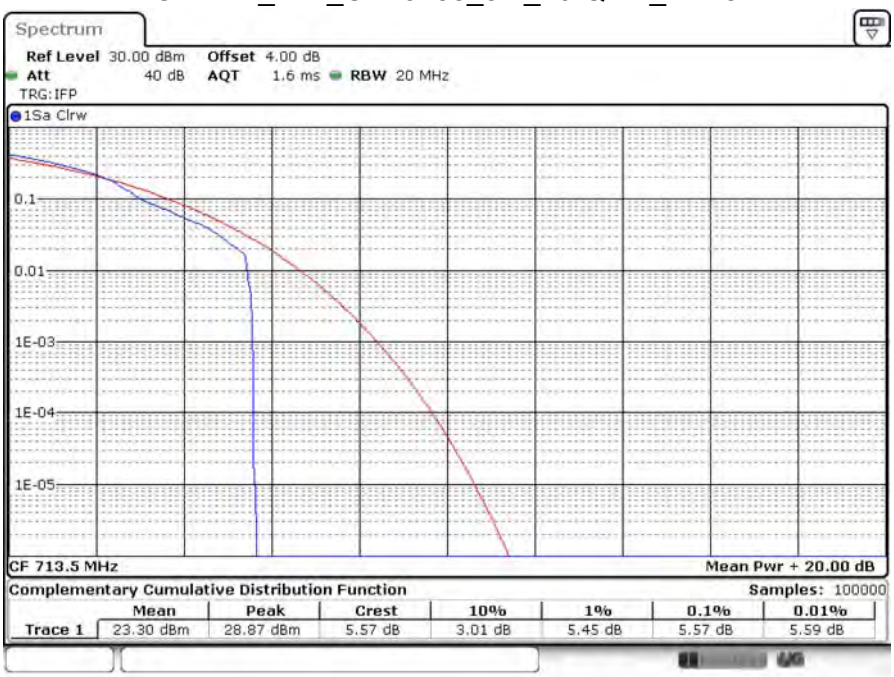
Date: 18.JAN.2021 17:15:34

CAT-M1_B12_CH23155_5M__QPSK_1RB5



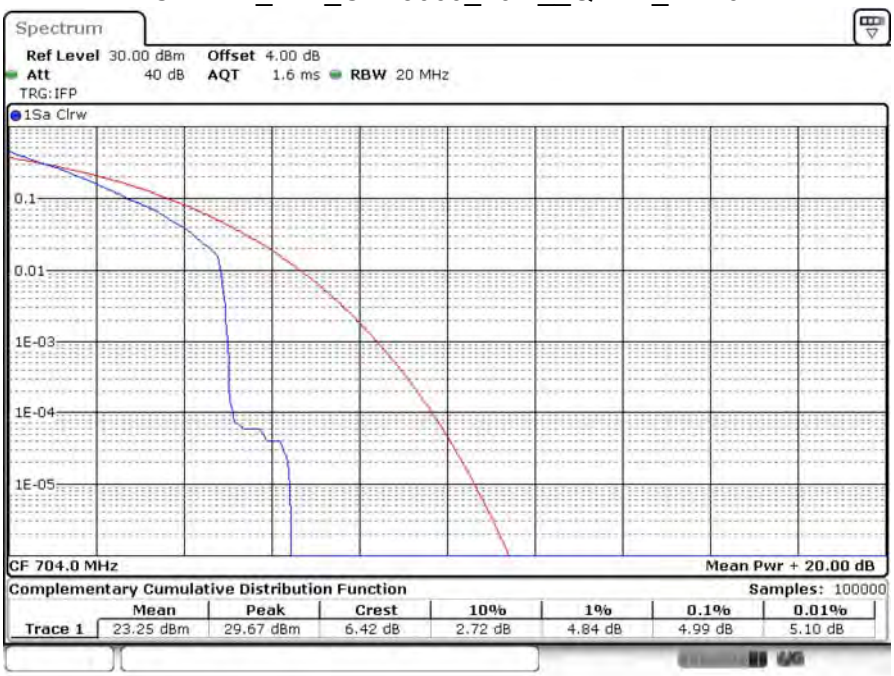
Date: 18.JAN.2021 17:18:07

CAT-M1_B12_CH23155_5M_16-QAM_1RB5



Date: 18.JAN.2021 17:18:47

CAT-M1_B12_CH23060_10M__QPSK_1RB0



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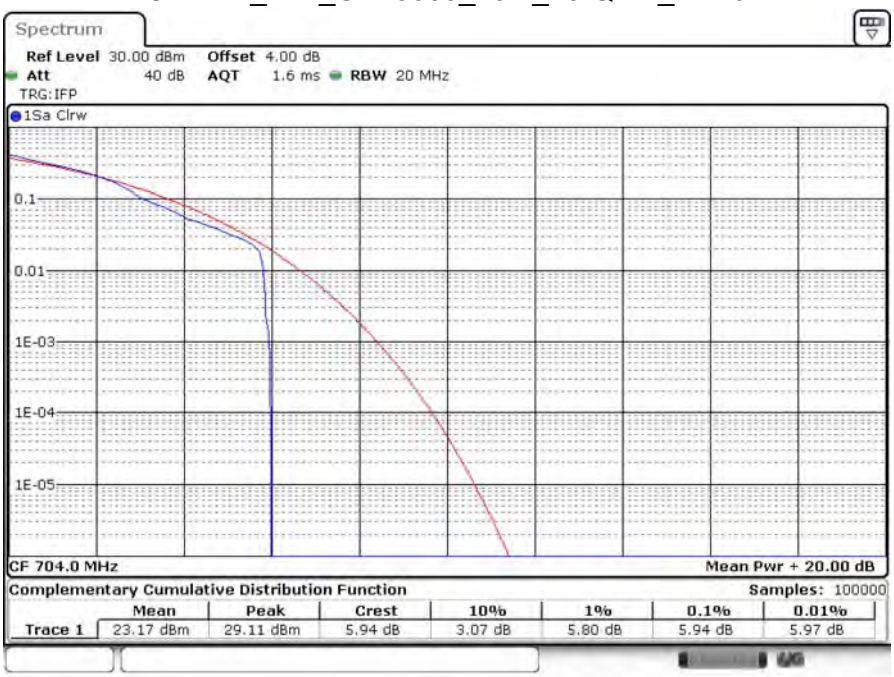
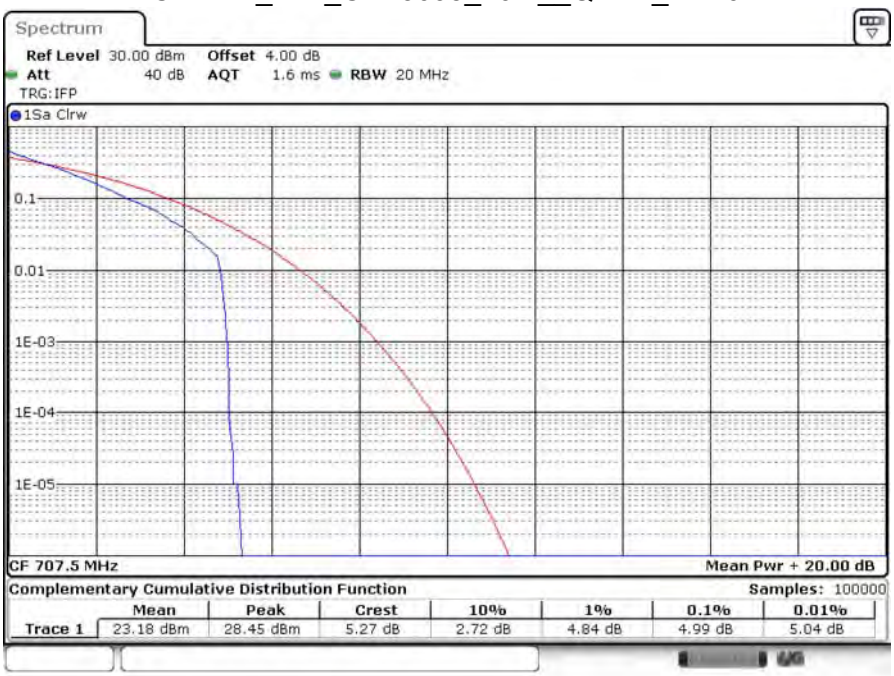


Date: 18.JAN.2021 17:22:08

CAT-M1_B12_CH23095_10M__QPSK_1RB0



Date: 18.JAN.2021 17:31:32

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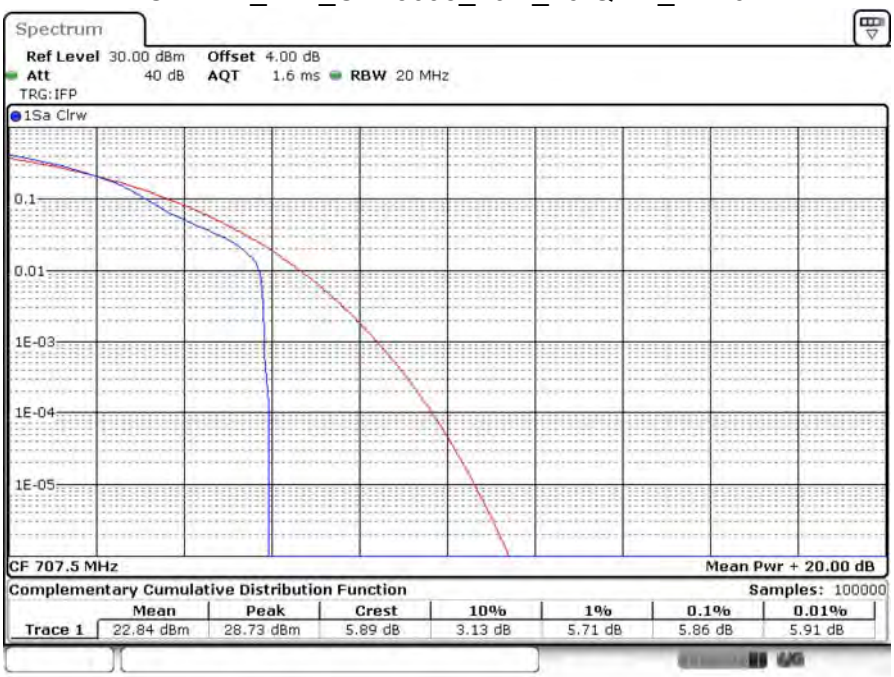
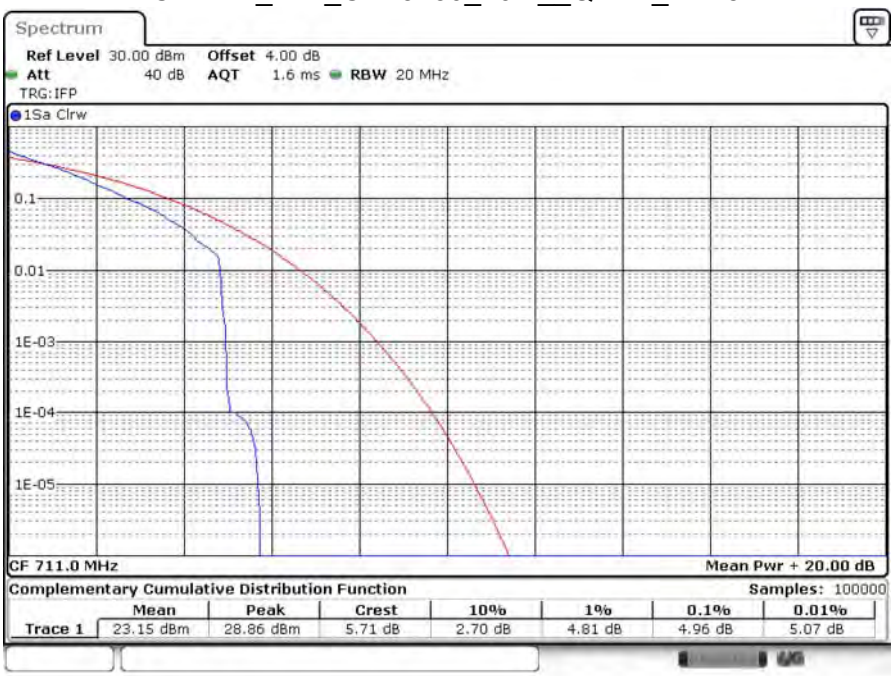


Date: 18.JAN.2021 17:33:14

CAT-M1_B12_CH23130_10M__QPSK_1RB5



Date: 18.JAN.2021 17:34:03

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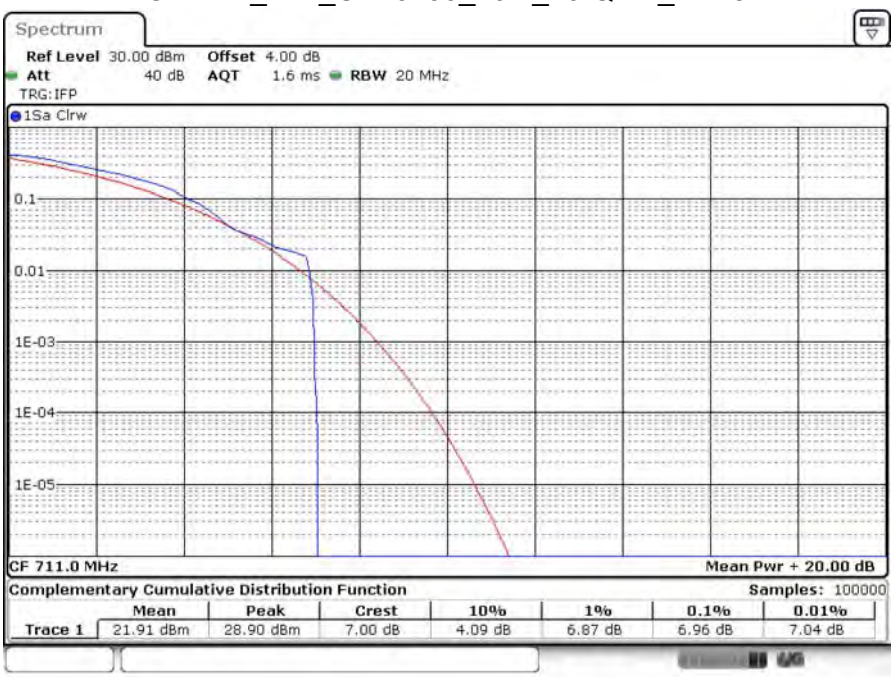
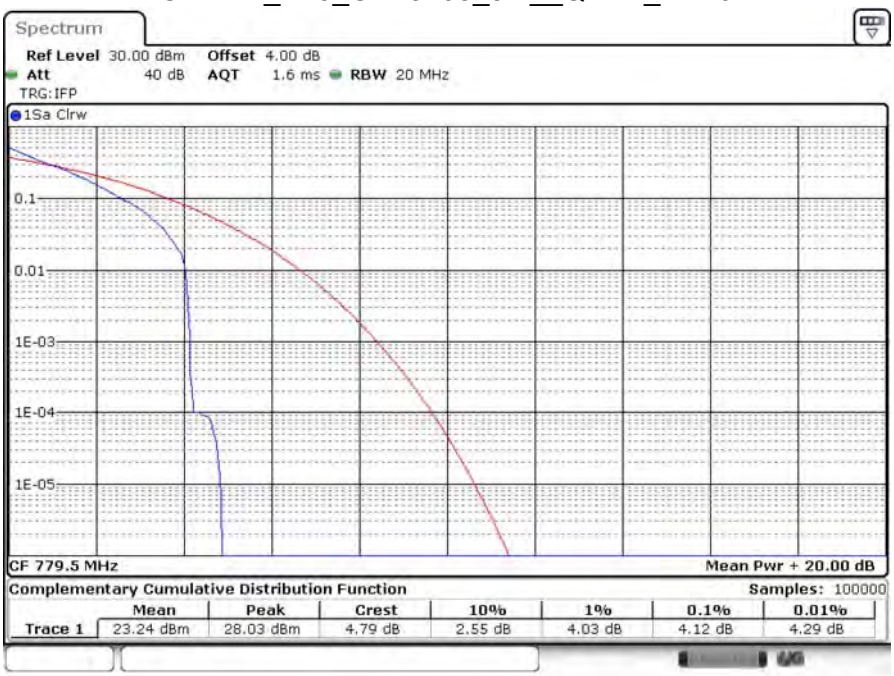


Date: 18.JAN.2021 17:33:52

Product	Connectivity Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 5: Band13 Link		
Date of Test	2021/01/19	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	59

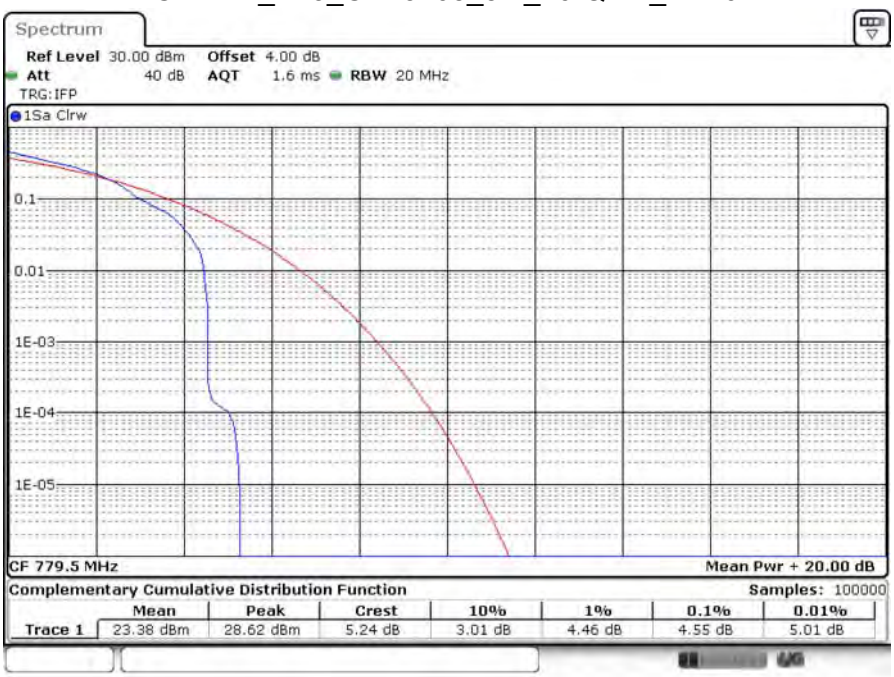
BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
5M	23205	779.5	QPSK	28.03	23.24	4.12
			16-QAM	28.62	23.38	4.55
	23230	782	QPSK	28.16	23.74	3.97
			16-QAM	28.21	24.04	4.17
	23255	784.5	QPSK	27.57	23.68	3.88
			16-QAM	28.10	23.83	4.29
10M	23230	782 low	QPSK	27.89	23.10	4.03
			16-QAM	27.78	23.19	4.38
		782 high	QPSK	27.75	23.31	4.03
			16-QAM	28.08	23.39	4.43

CAT-M1_B13_CH23205_5M__QPSK_1RB0



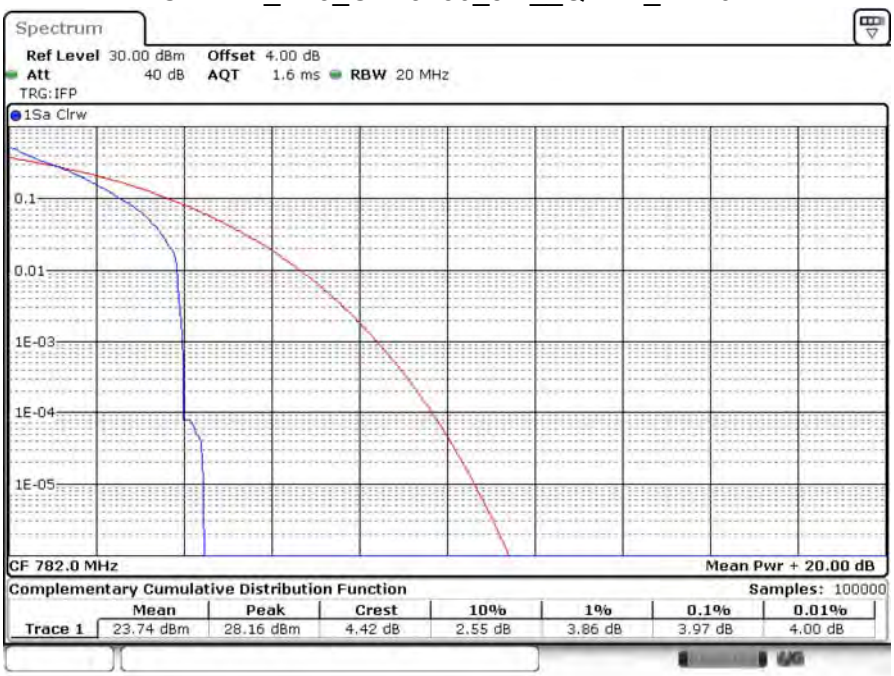
Date: 18.JAN.2021 17:49:49

CAT-M1_B13_CH23205_5M_16-QAM_1RB0



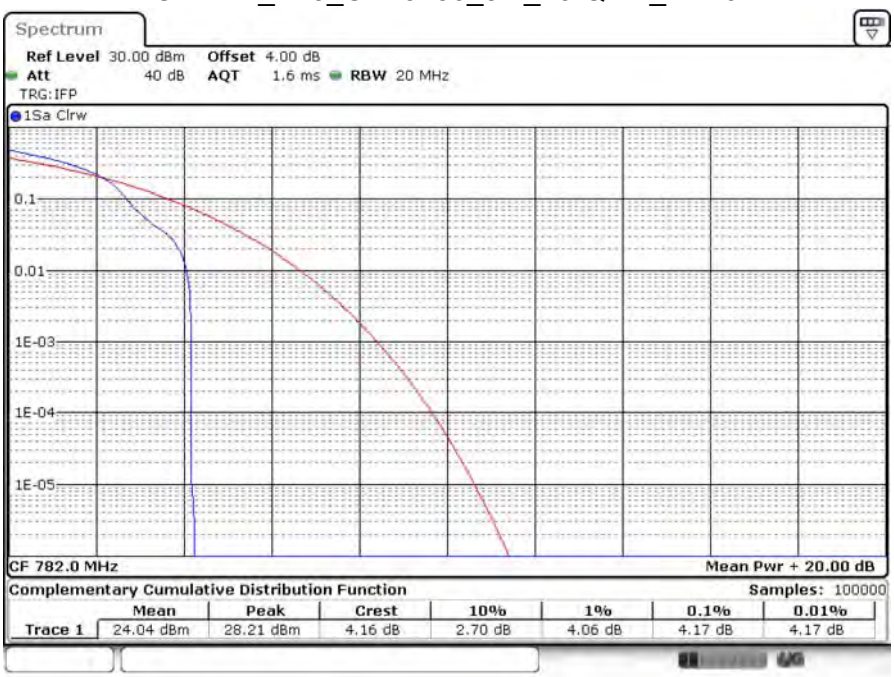
Date: 18.JAN.2021 17:49:39

CAT-M1_B13_CH23230_5M__QPSK_1RB0



Date: 18.JAN.2021 17:50:06

CAT-M1_B13_CH23230_5M_16-QAM_1RB0

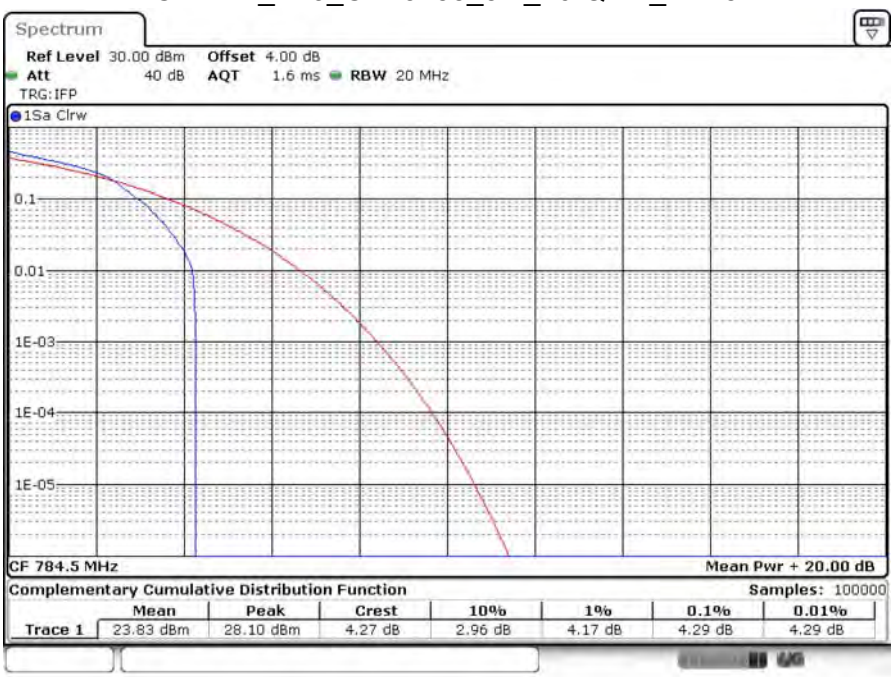


Date: 18.JAN.2021 17:50:19

CAT-M1_B13_CH23255_5M__QPSK_1RB5

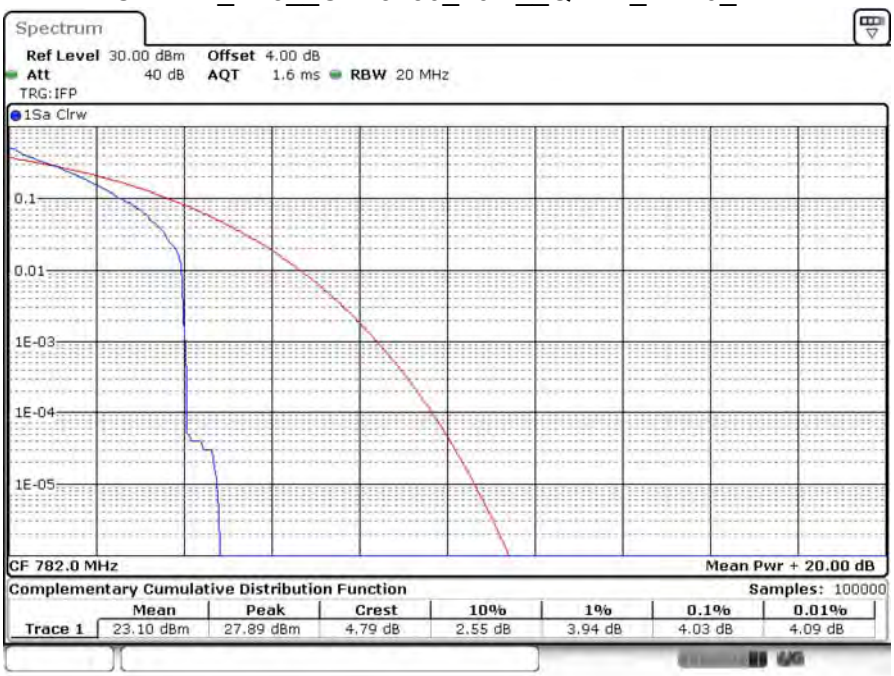
Date: 18.JAN.2021 17:49:07

CAT-M1_B13_CH23255_5M_16-QAM_1RB5



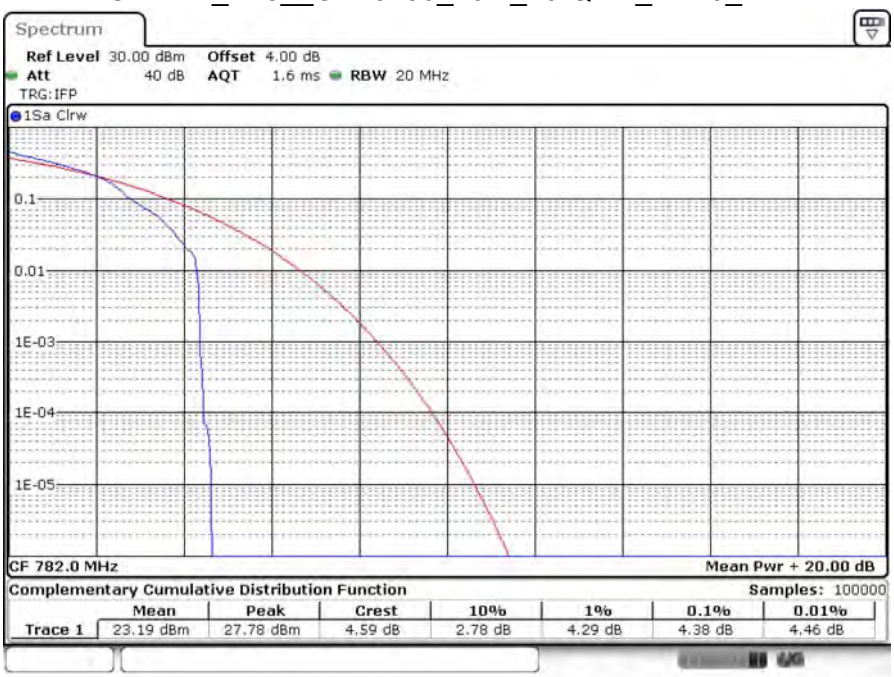
Date: 18.JAN.2021 17:49:17

CAT-M1_B13__CH23230_10M__QPSK_1RB0_low



Date: 18.JAN.2021 17:51:21

CAT-M1_B13__CH23230_10M_16-QAM_1RB0_low



Date: 18.JAN.2021 17:50:48

CAT-M1_B13_CH23230_10M__QPSK_1RB5_high

Date: 18.JAN.2021 17:51:11

CAT-M1_B13_CH23230_10M_16-QAM_1RB5_high

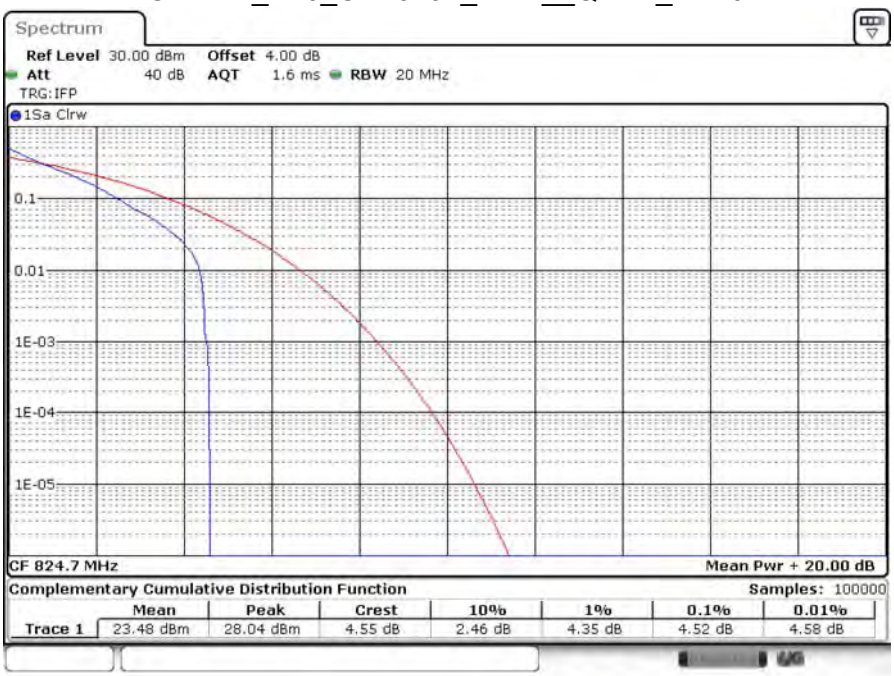
Date: 18.JAN.2021 17:51:01

Product	Connectivity Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 6: Band26_Part22 Link		
Date of Test	2021/01/19	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	59

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	26797	824.7	QPSK	28.04	23.48	4.52
			16-QAM	28.02	22.46	5.54
	26915	836.5	QPSK	28.21	23.52	4.64
			16-QAM	28.16	22.73	5.42
	27033	848.3	QPSK	28.23	23.38	4.78
			16-QAM	28.23	22.35	5.80
3M	26805	825.5	QPSK	29.18	23.57	4.43
			16-QAM	28.08	22.64	5.39
	26915	836.5	QPSK	28.89	23.50	4.58
			16-QAM	28.59	22.72	5.42
	27025	847.5	QPSK	28.19	23.56	4.61
			16-QAM	29.31	22.93	5.25
5M	26815	826.5	QPSK	28.75	23.55	4.41
			16-QAM	28.67	23.26	5.07
	26915	836.5	QPSK	28.79	23.30	4.58
			16-QAM	28.30	23.11	5.16
	27015	846.5	QPSK	28.16	23.58	4.55
			16-QAM	28.35	23.02	5.30
10M	26840	829	QPSK	27.46	22.93	4.46
			16-QAM	28.13	22.81	5.07
	26915	836.5	QPSK	27.58	23.10	4.43
			16-QAM	28.00	22.98	5.01
	26990	844	QPSK	28.56	23.22	4.58
			16-QAM	28.28	23.23	5.01

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
15M	26865	831.5	QPSK	26.69	22.21	4.46
			16-QAM	28.07	22.02	5.10
	26915	836.5	QPSK	27.79	22.14	4.46
			16-QAM	28.03	21.77	5.28
	26965	841.5	QPSK	27.37	22.84	4.49
			16-QAM	28.27	22.57	5.10

CAT-M1_B26_CH26797_1.4M__QPSK_1RB0



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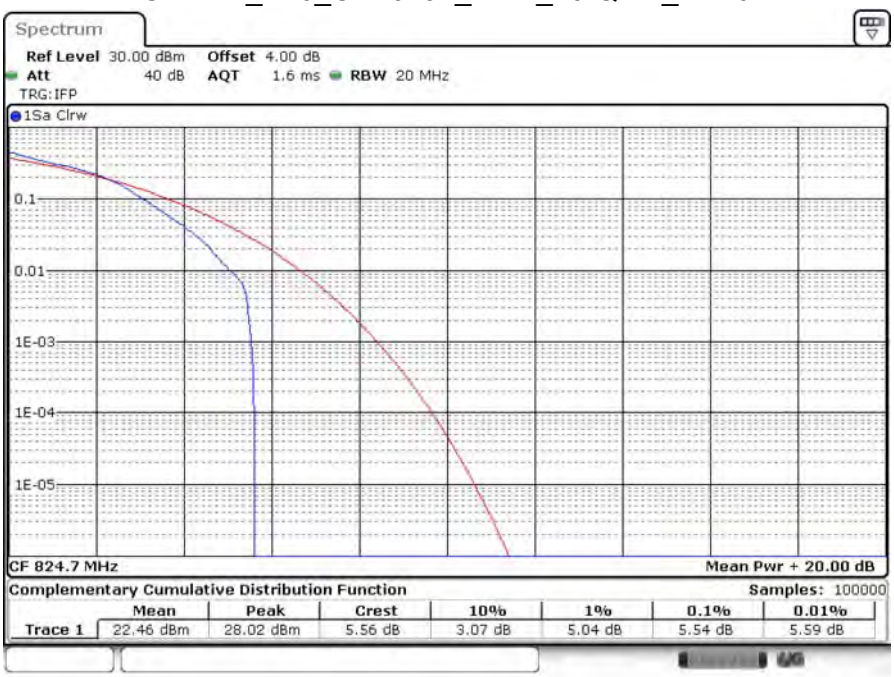

Date: 19.JAN.2021 11:27:34

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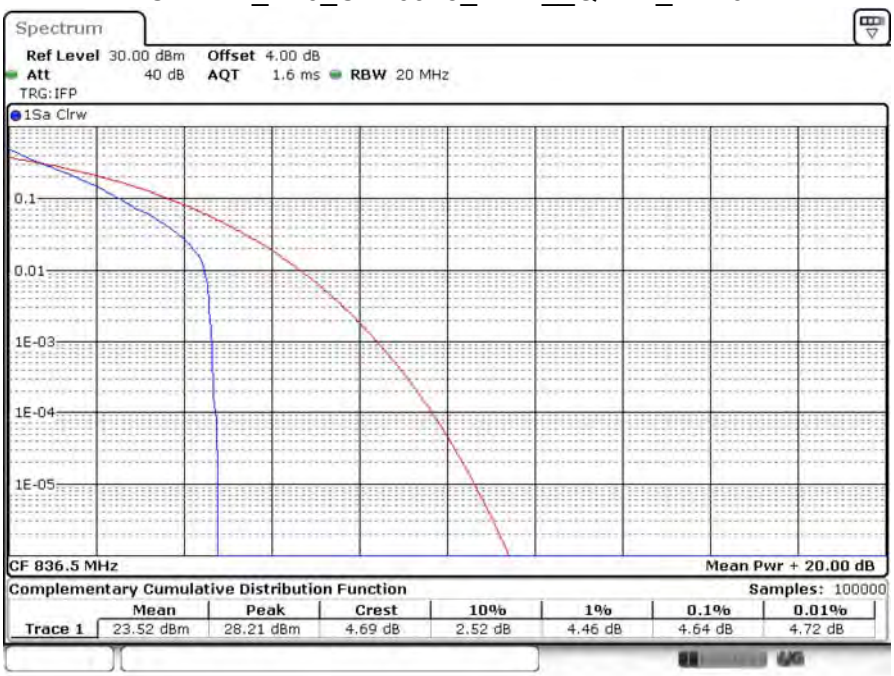

Date: 19.JAN.2021 11:37:14

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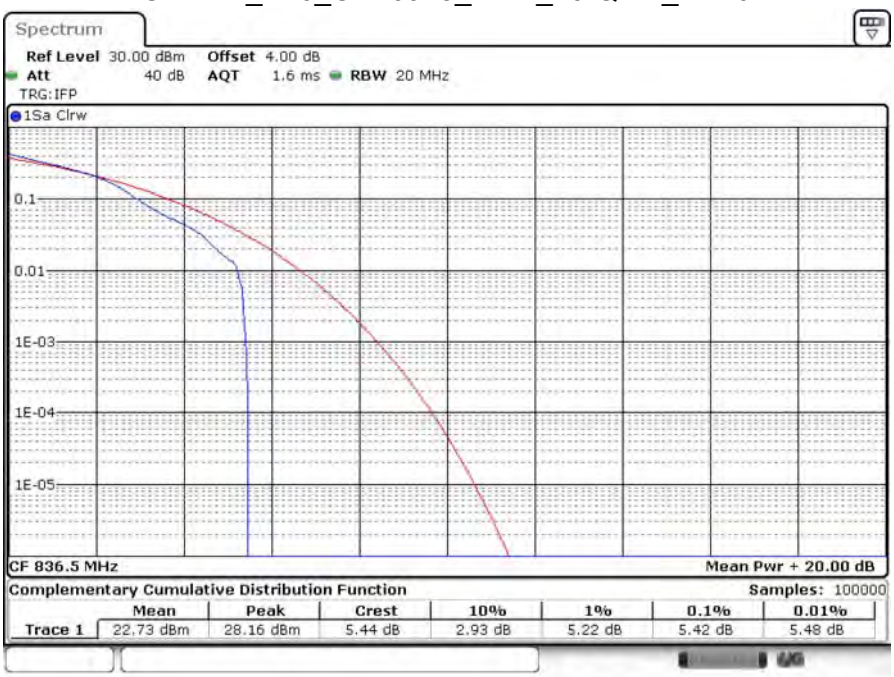

Date: 19.JAN.2021 11:36:58

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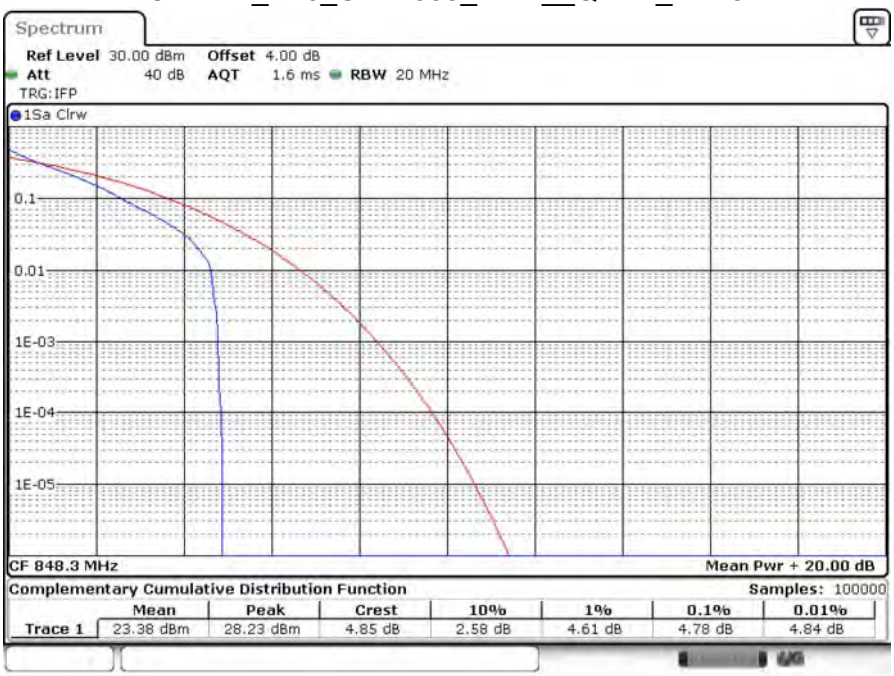

Date: 19.JAN.2021 16:27:11

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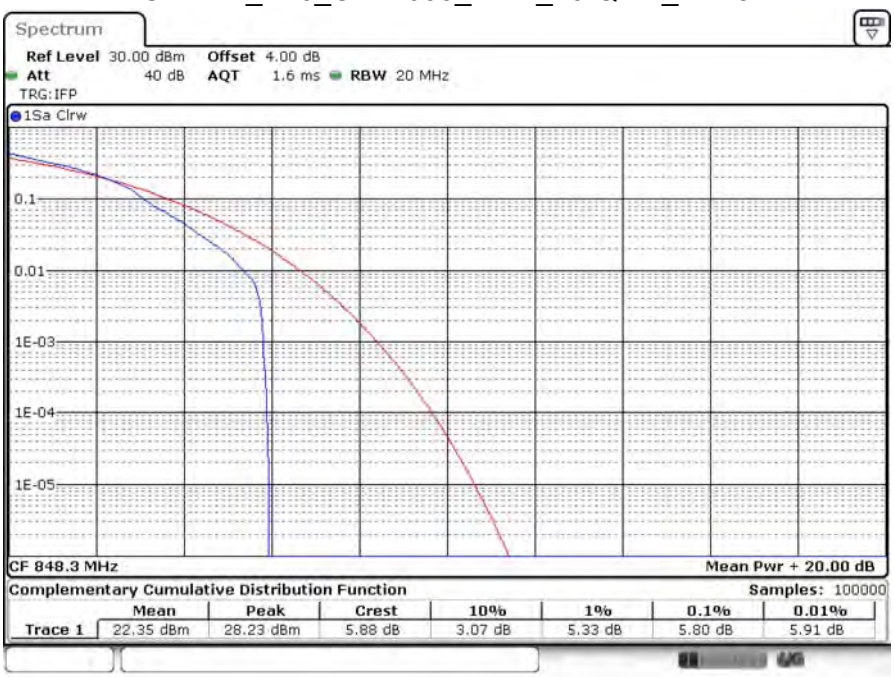

Date: 19.JAN.2021 16:26:55

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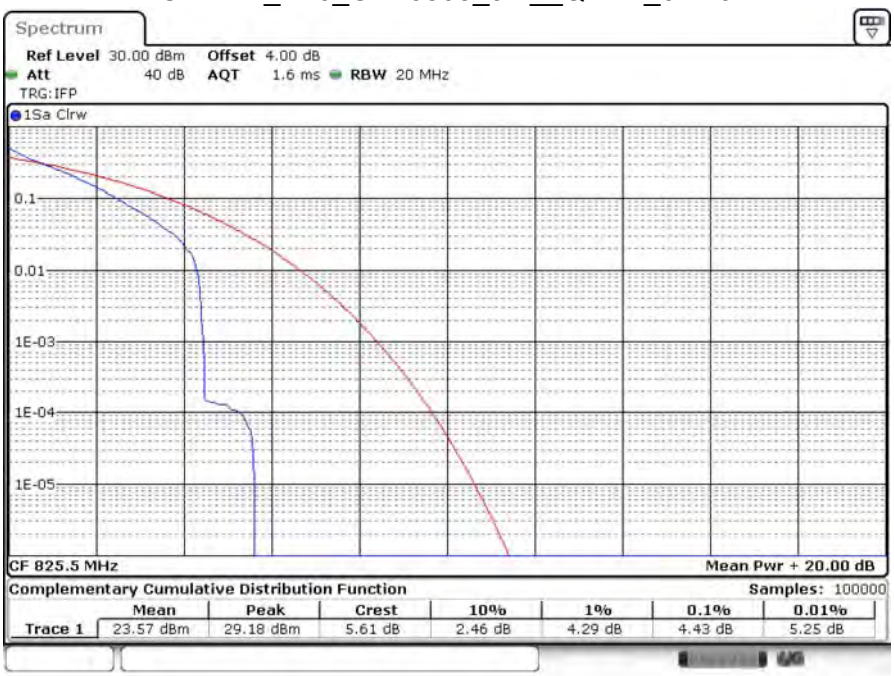

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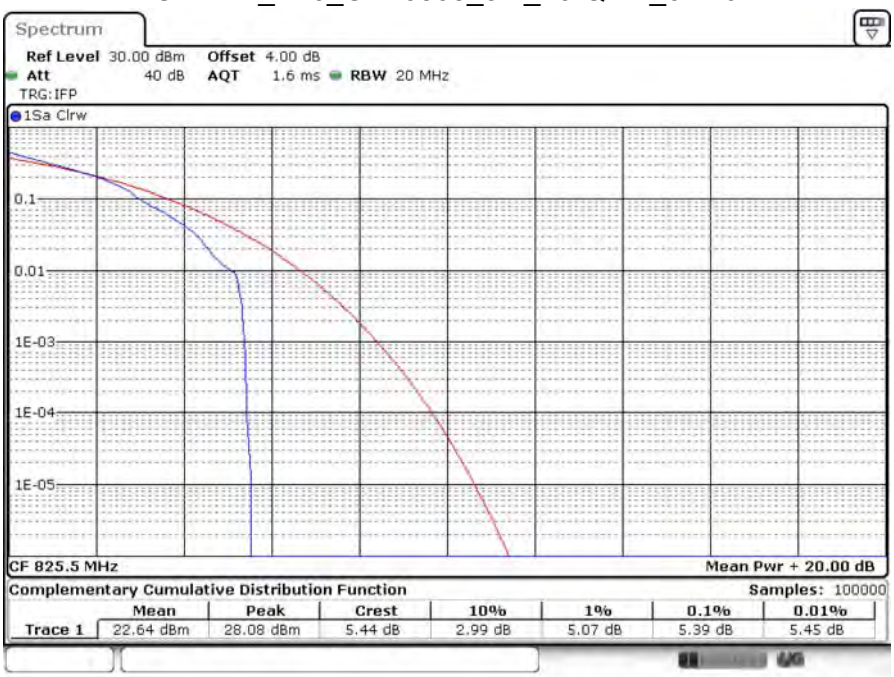

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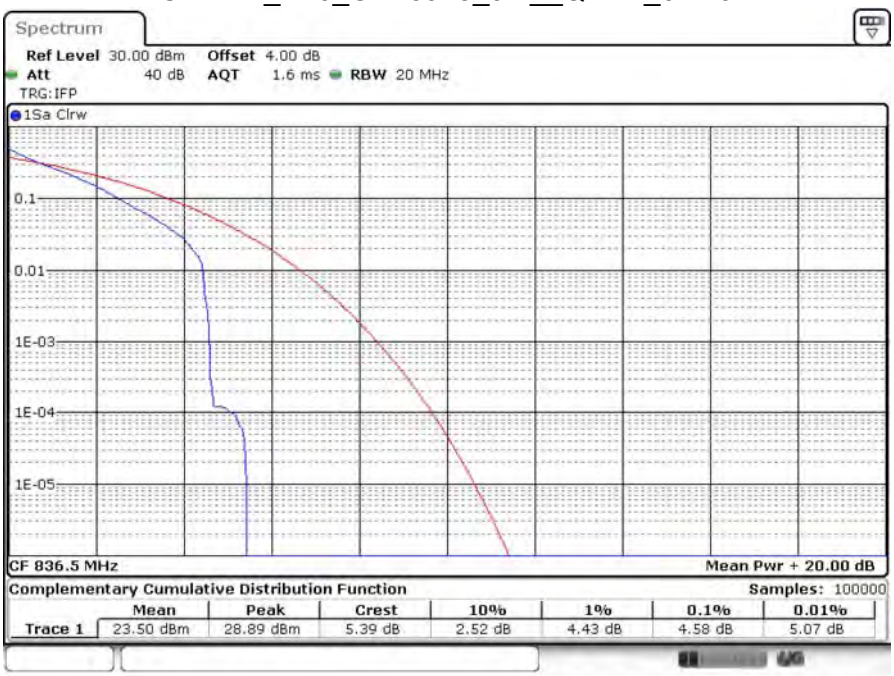

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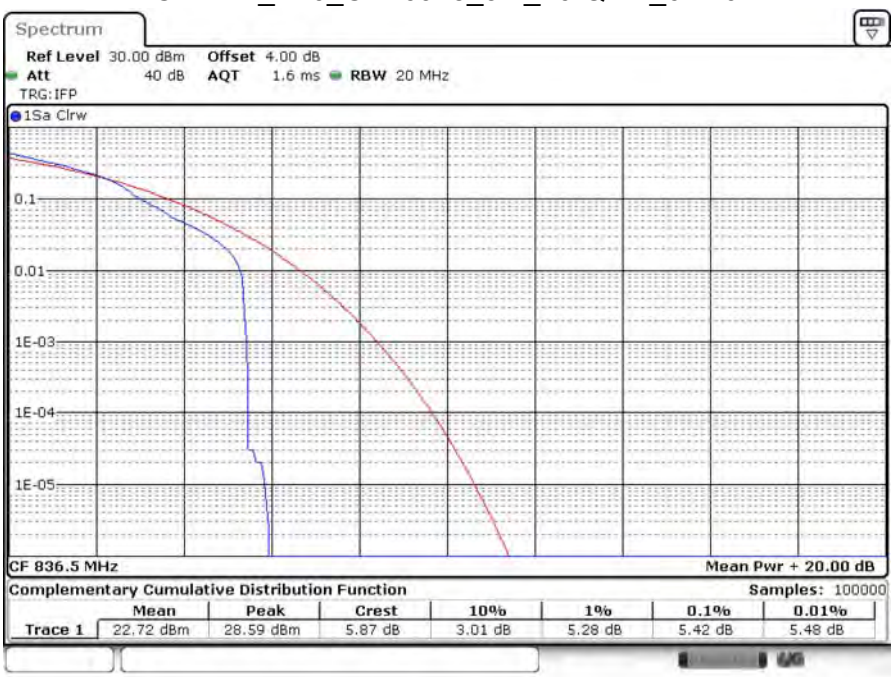

Date: 19.JAN.2021 13:32:45

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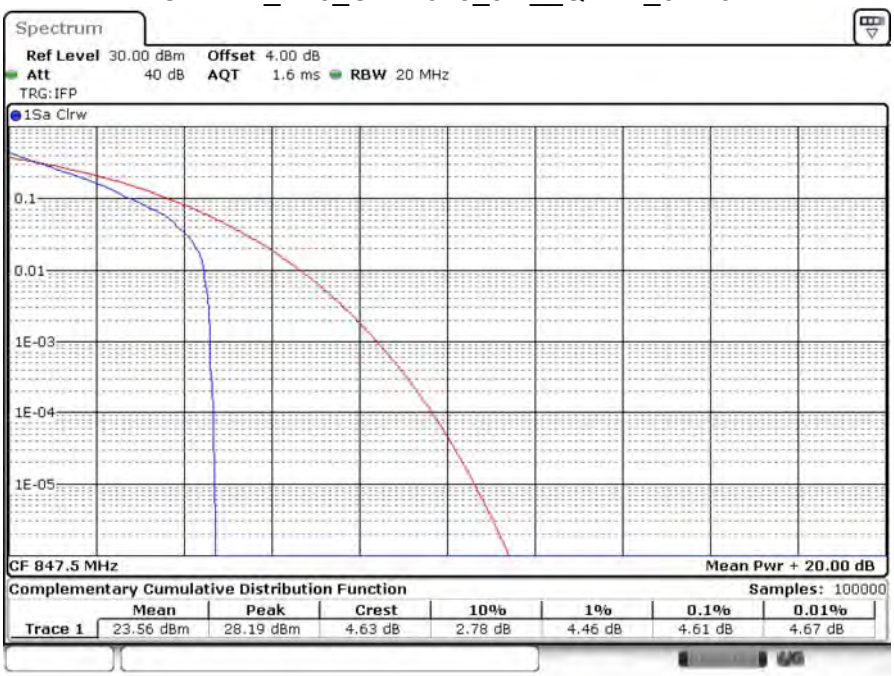

Date: 19.JAN.2021 13:37:43

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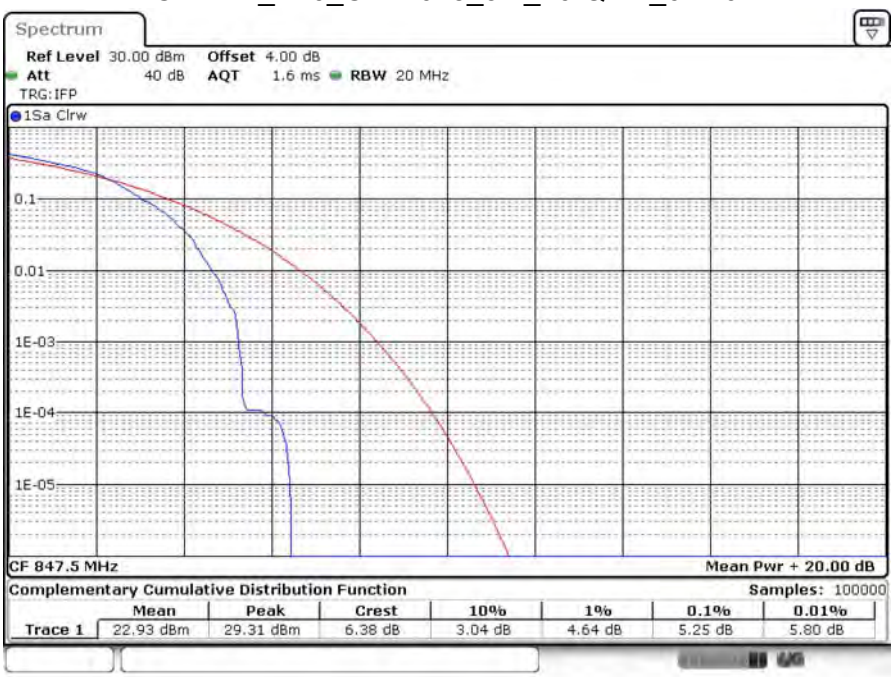

Date: 19.JAN.2021 13:36:49

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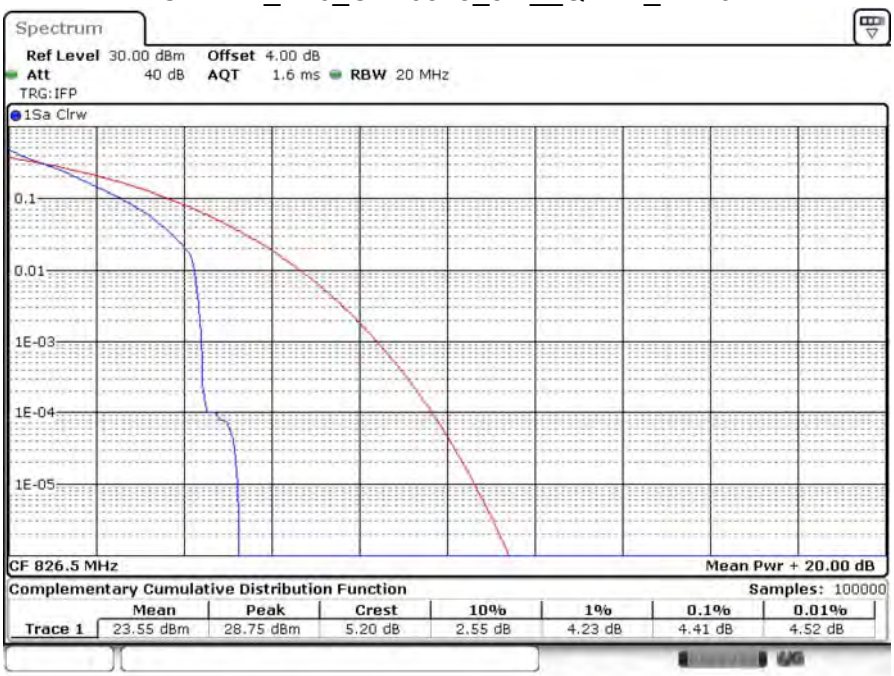

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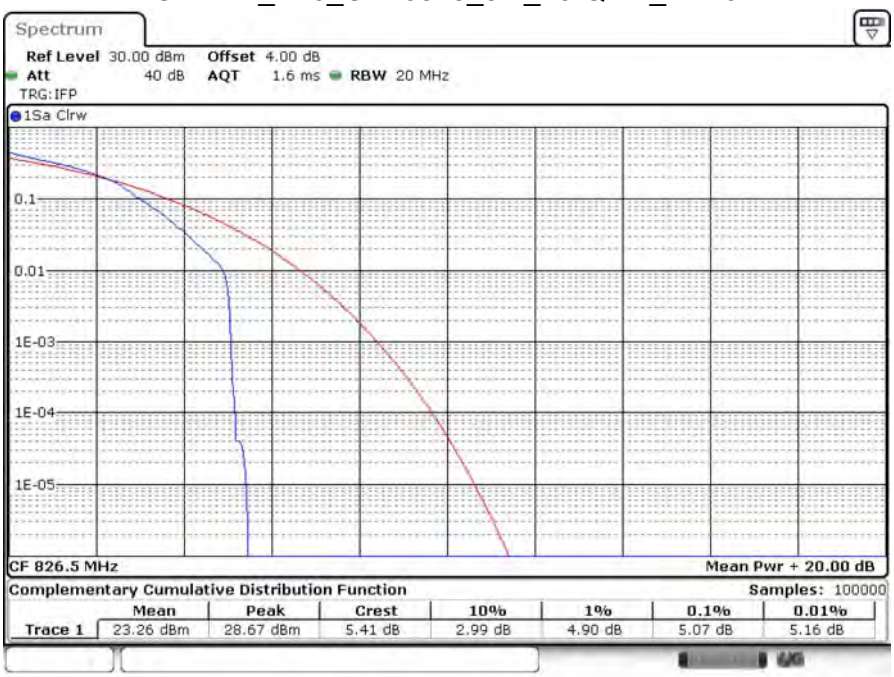

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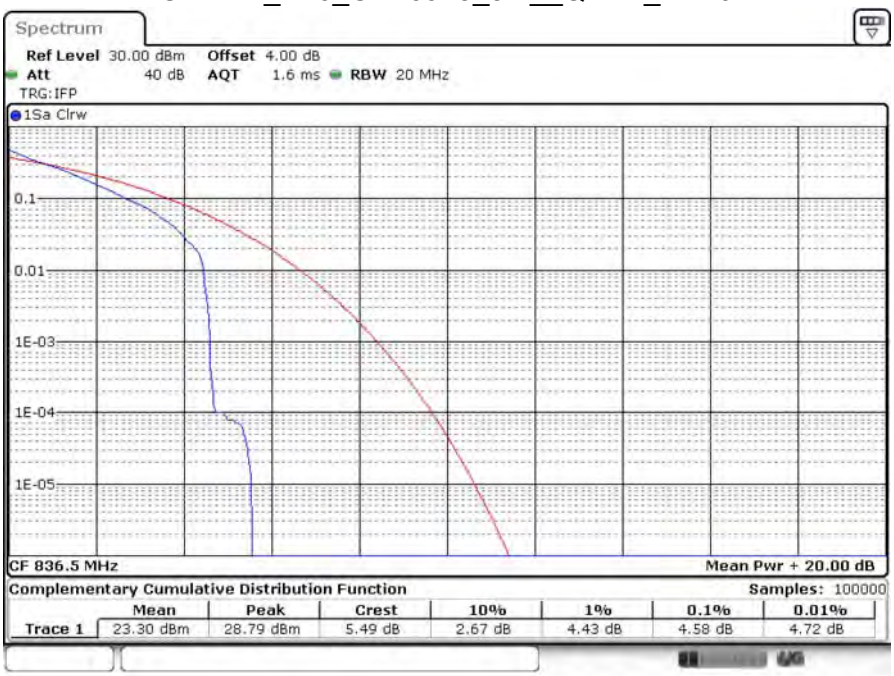

Date: 19.JAN.2021 13:41:32

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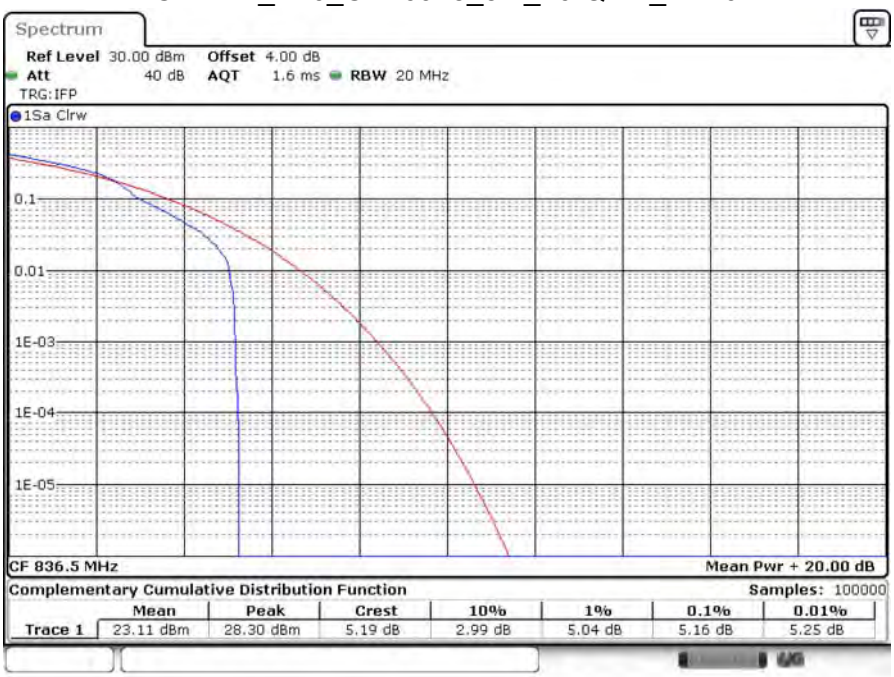
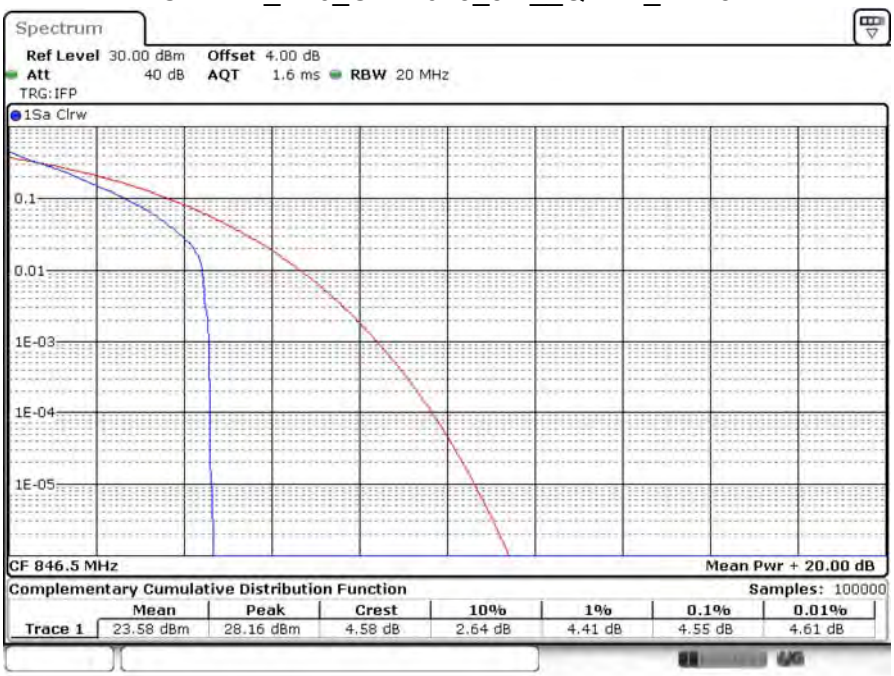


Date: 19.JAN.2021 13:41:13

CAT-M1_B26_CH27015_5M__QPSK_1RB5



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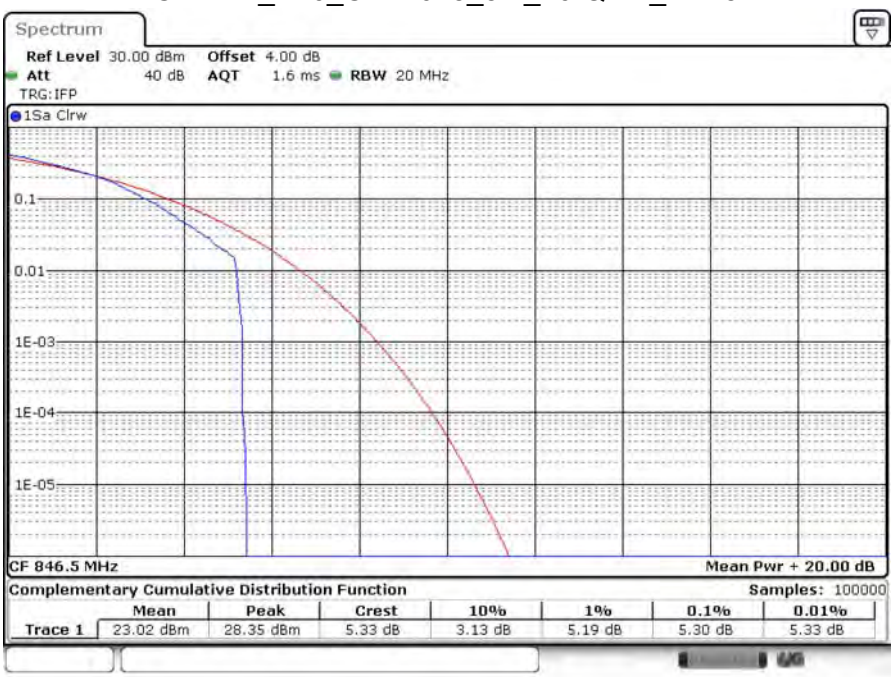
CAT-M1_B26_CH27015_5M_16-QAM_1RB5



Date: 19.JAN.2021 13:45:51

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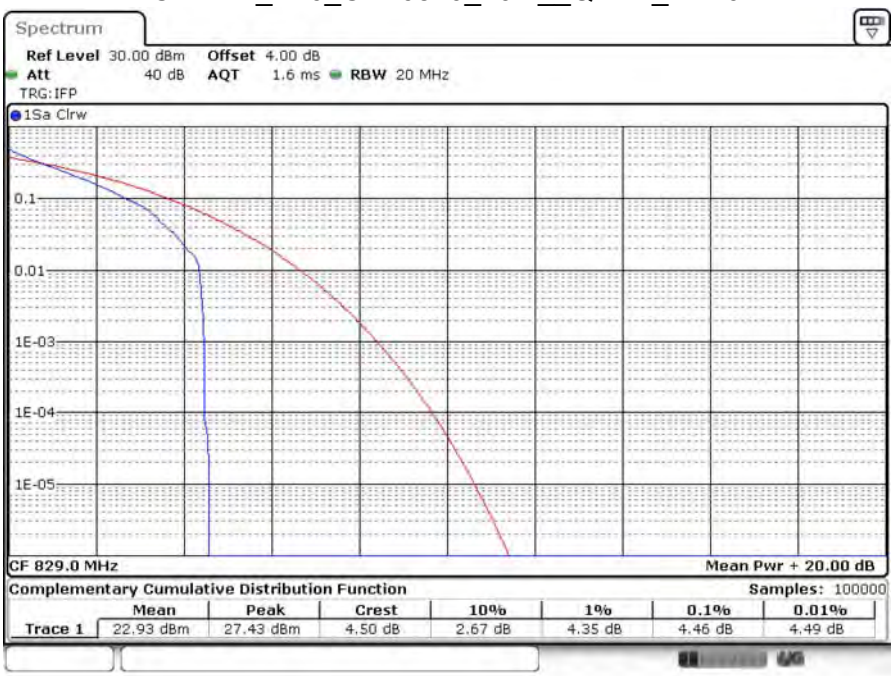

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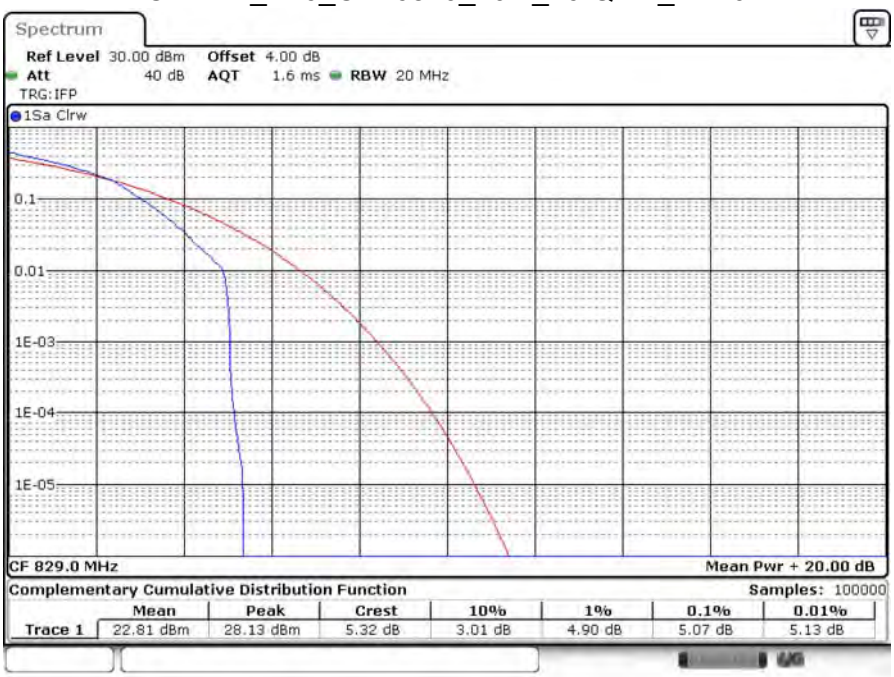

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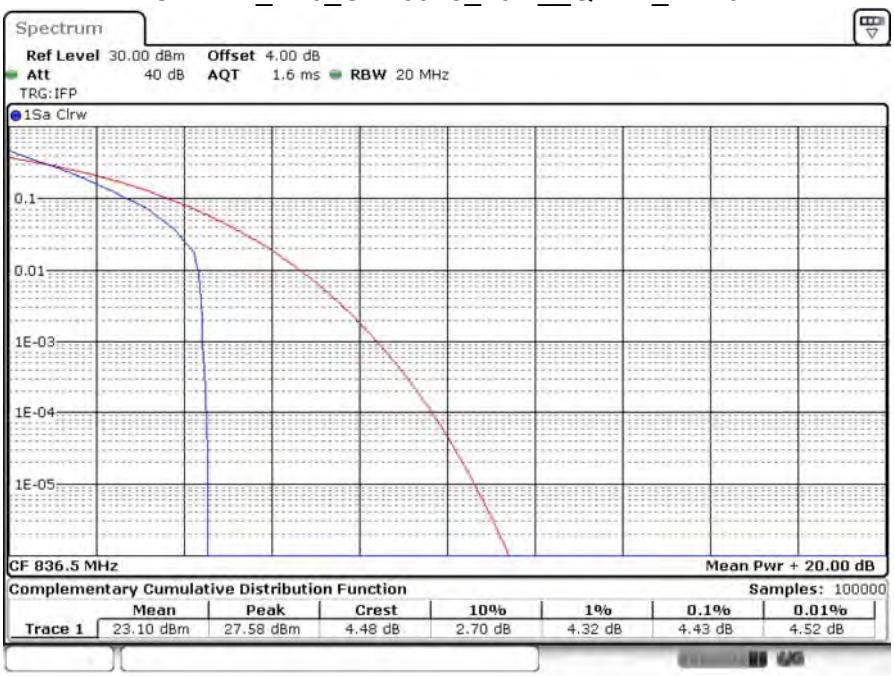
CAT-M1_B26_CH26915_10M__QPSK_1RB0



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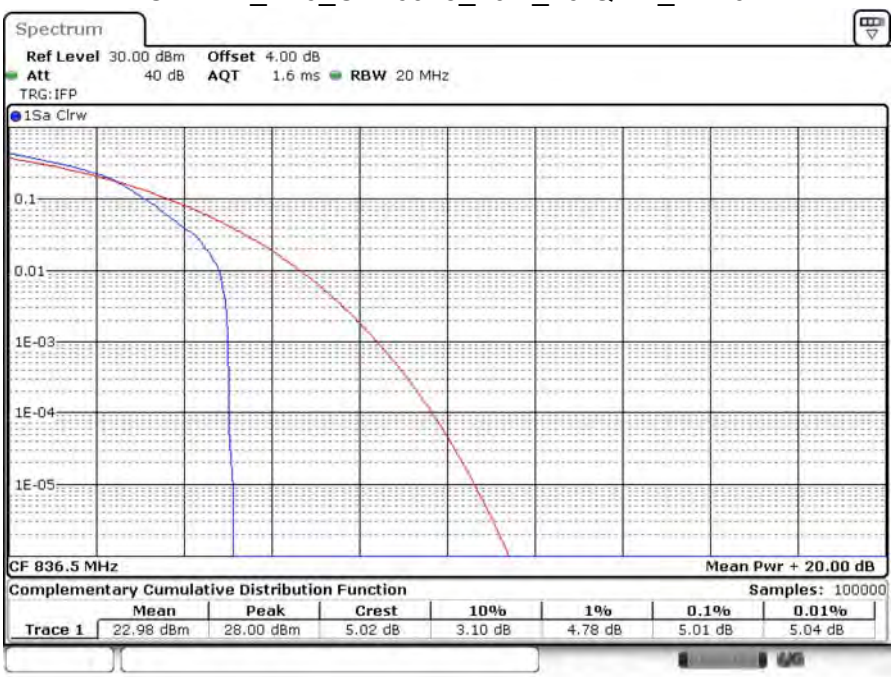

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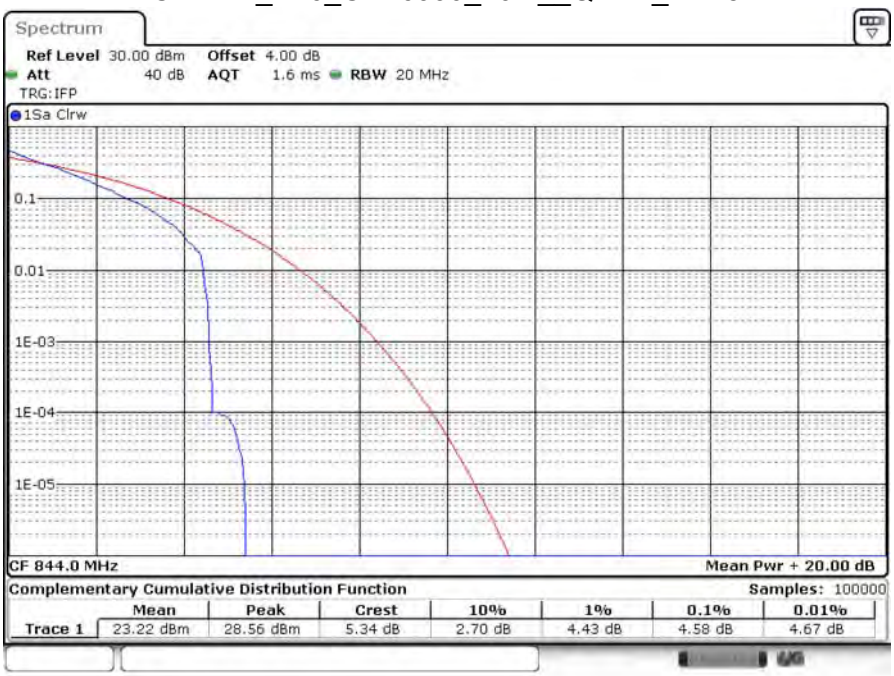

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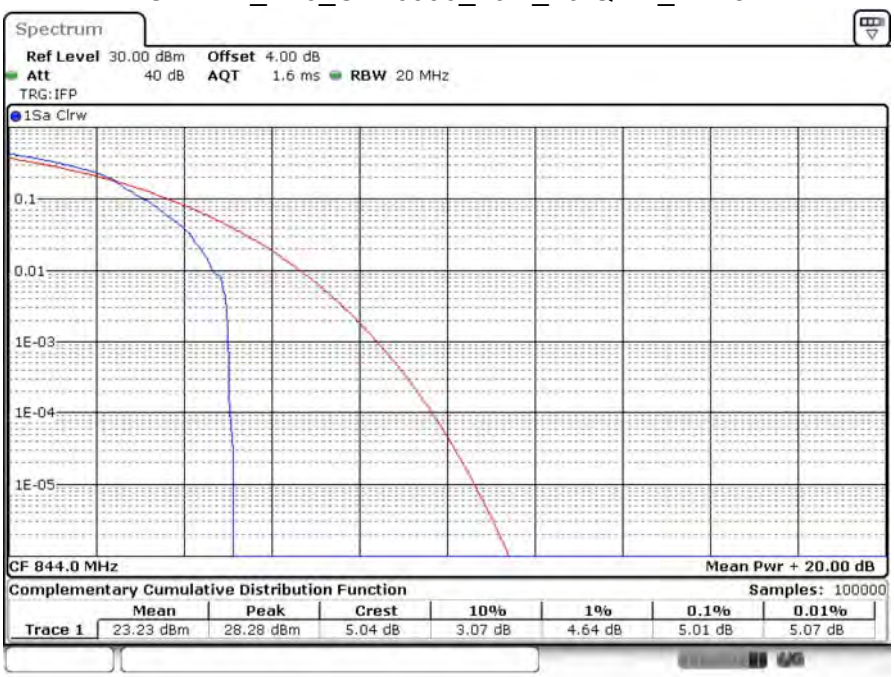

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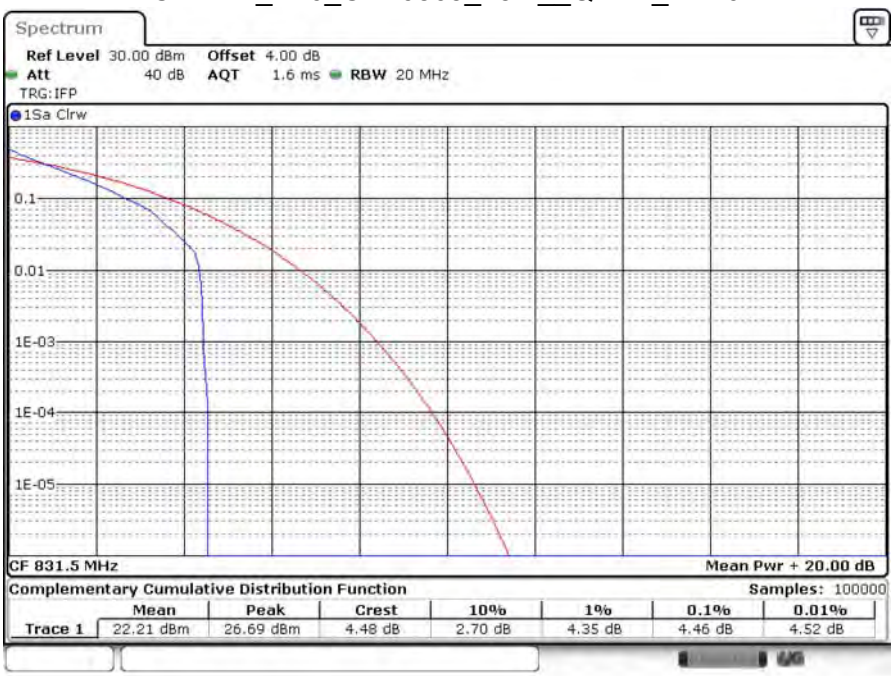

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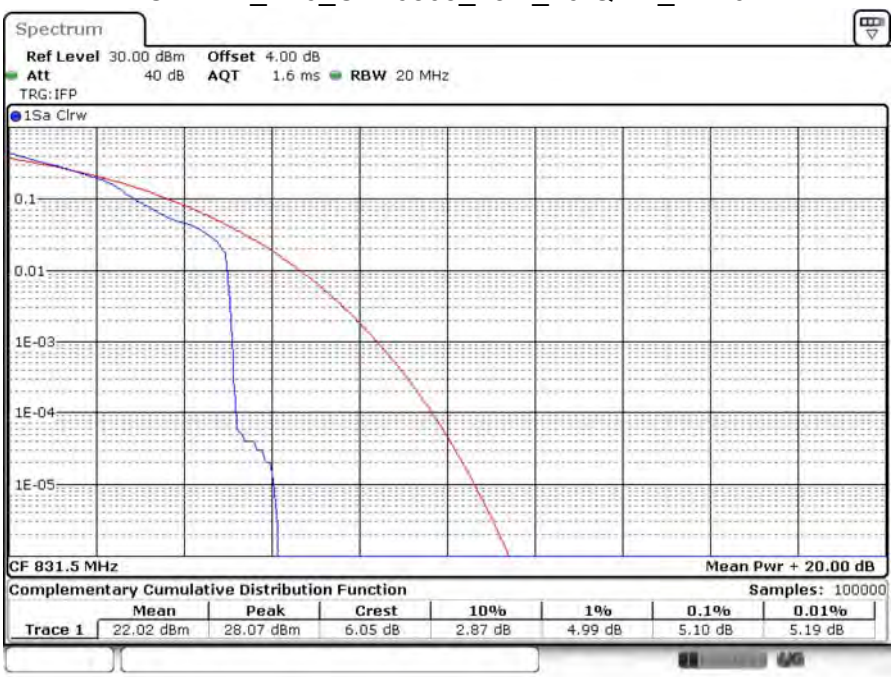

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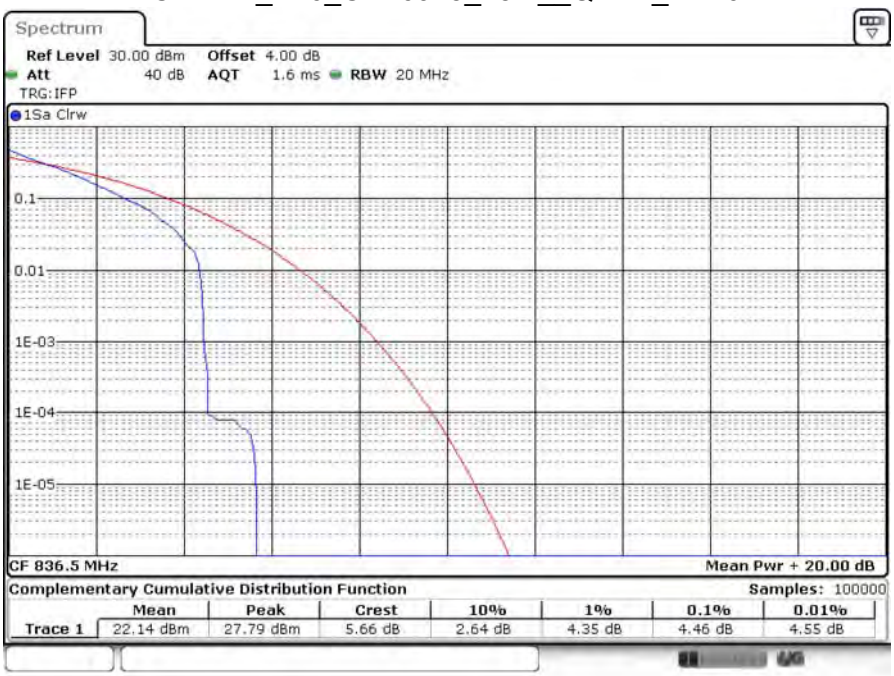

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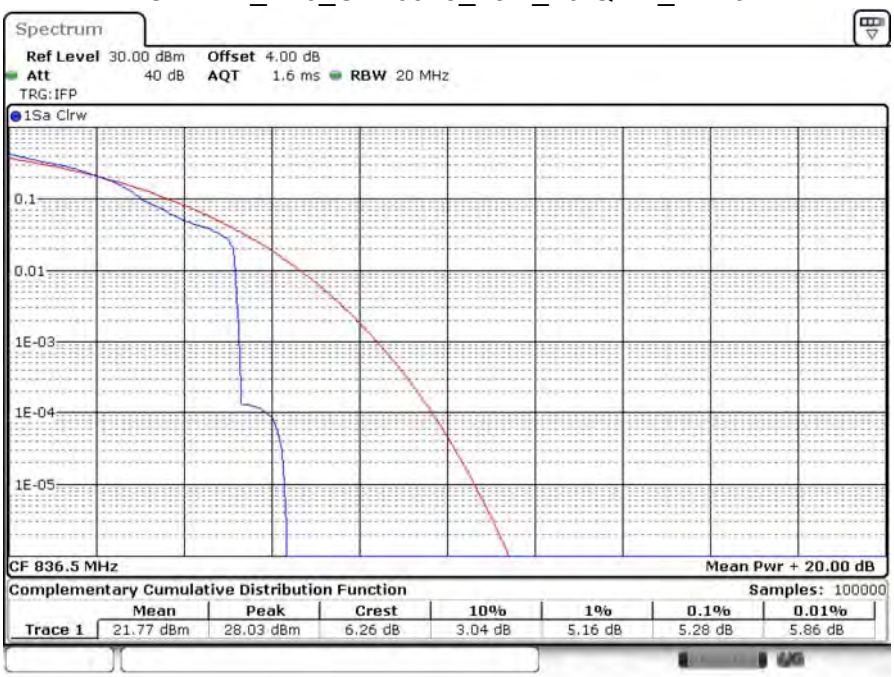

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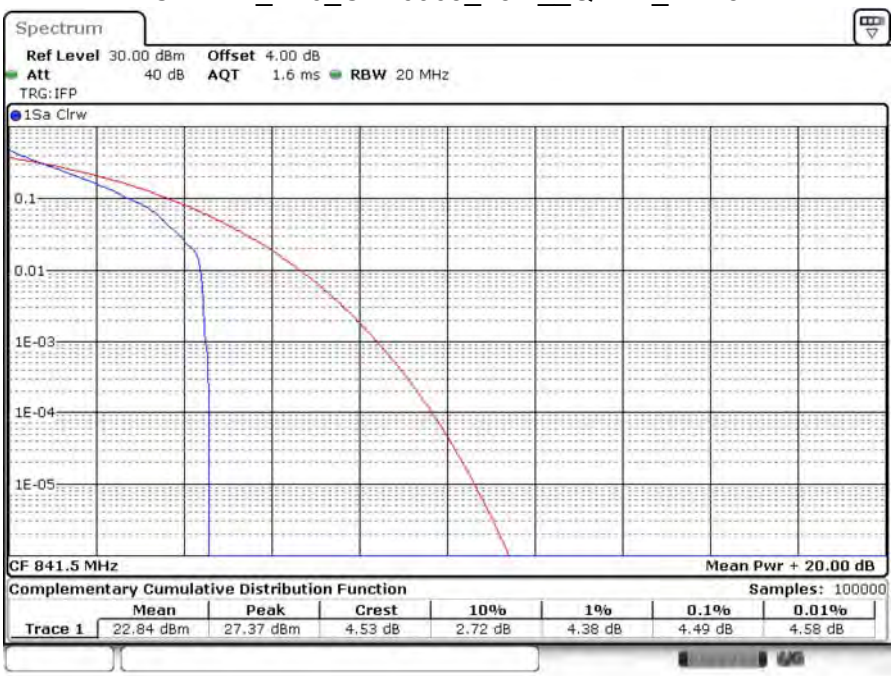

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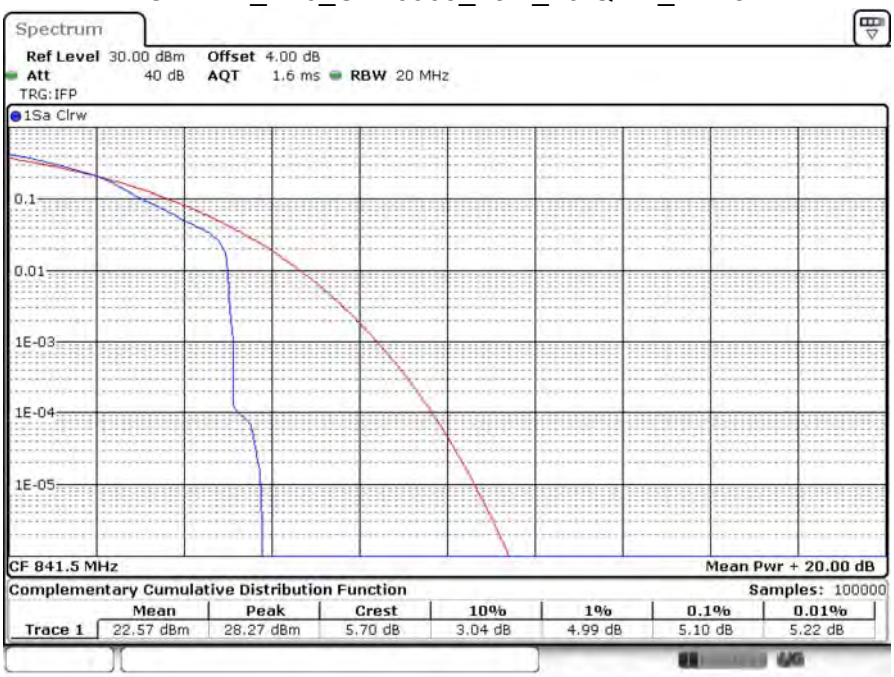
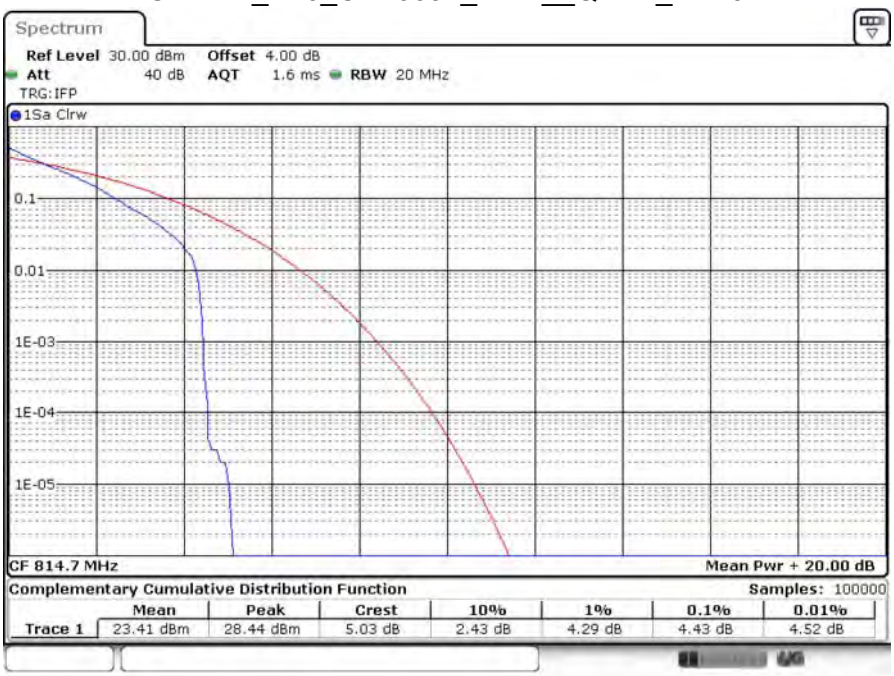


Date: 19.JAN.2021 14:04:03

Product	Connectivity Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 7: Band26_Part90 Link		
Date of Test	2021/01/19	Test Site	SR12-H
Temperature (°C)	24	Humidity (%RH)	59

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	26697	814.7	QPSK	28.44	23.41	4.43
			16-QAM	27.98	22.54	5.39
	26740	819	QPSK	28.05	23.50	4.46
			16-QAM	28.25	22.55	5.36
	26783	823.3	QPSK	28.15	23.57	4.52
			16-QAM	28.34	22.76	5.39
3M	26705	815.5	QPSK	29.04	23.60	4.32
			16-QAM	27.90	22.48	5.36
	26740	819	QPSK	27.90	23.49	4.38
			16-QAM	29.10	22.48	5.39
	26775	822.5	QPSK	29.01	23.63	4.41
			16-QAM	28.17	23.08	5.04
5M	26715	816.5	QPSK	27.76	23.37	4.38
			16-QAM	28.27	23.55	4.70
	26740	819	QPSK	27.77	23.41	4.35
			16-QAM	28.31	23.19	4.99
	26765	821.5	QPSK	27.80	23.41	4.38
			16-QAM	28.78	23.58	4.90
10M	26740	819 low	QPSK	28.06	23.12	4.29
			16-QAM	27.81	22.54	5.25
		819 high	QPSK	27.49	22.63	4.84
			16-QAM	28.94	22.88	5.07

CAT-M1_B26_CH26697_1.4M__QPSK_1RB0



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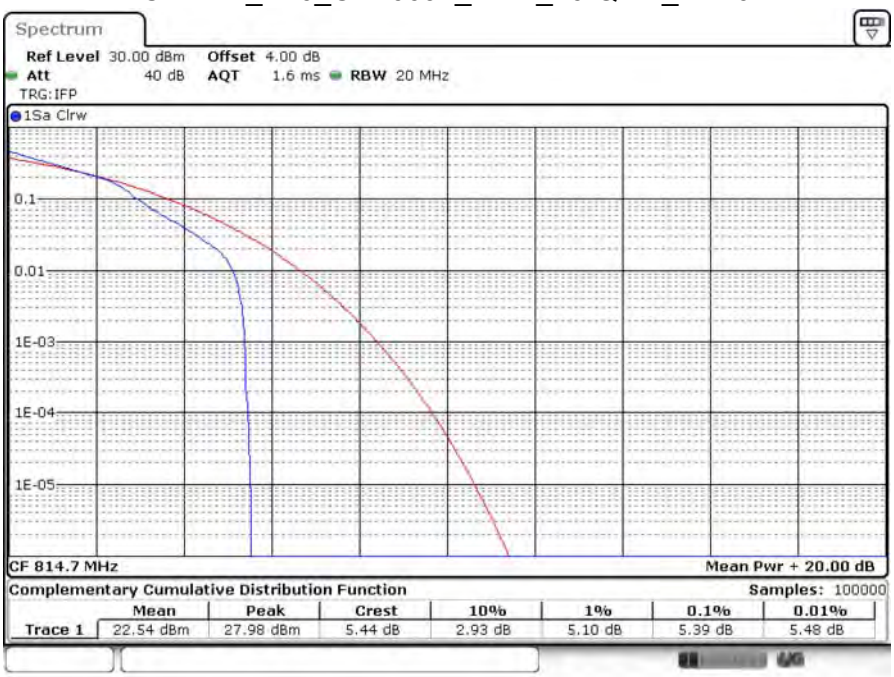

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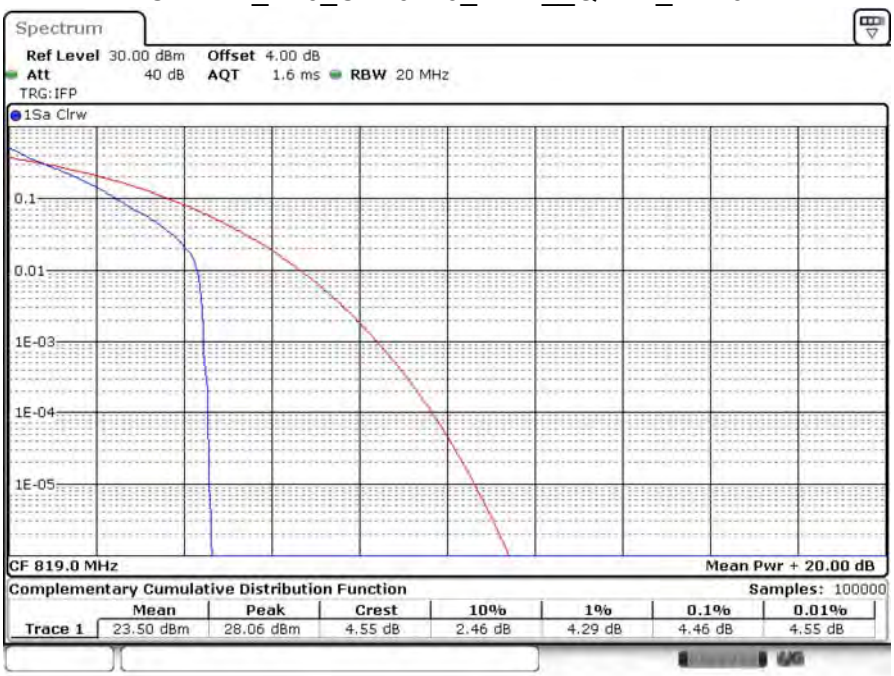

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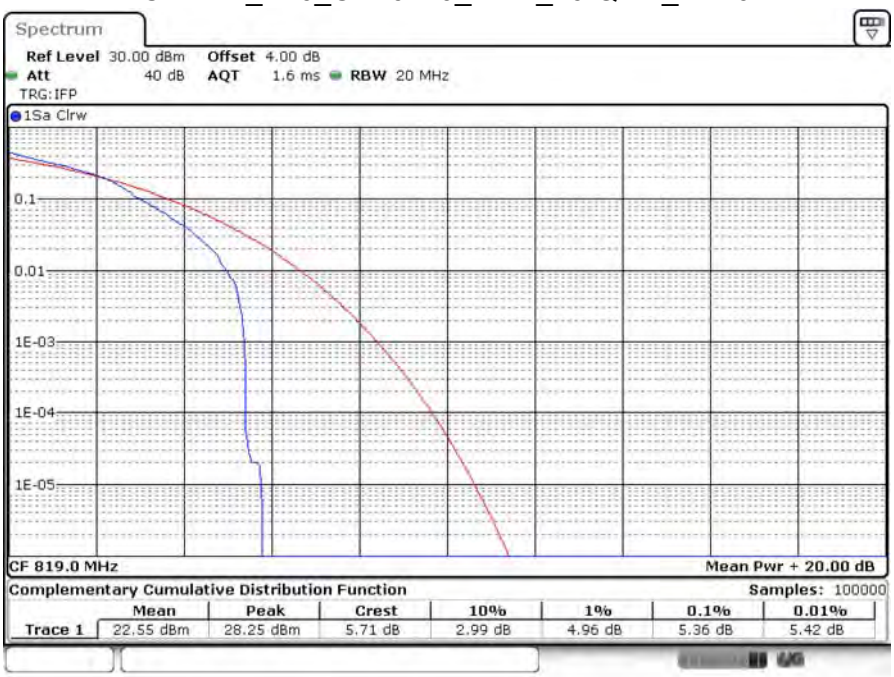

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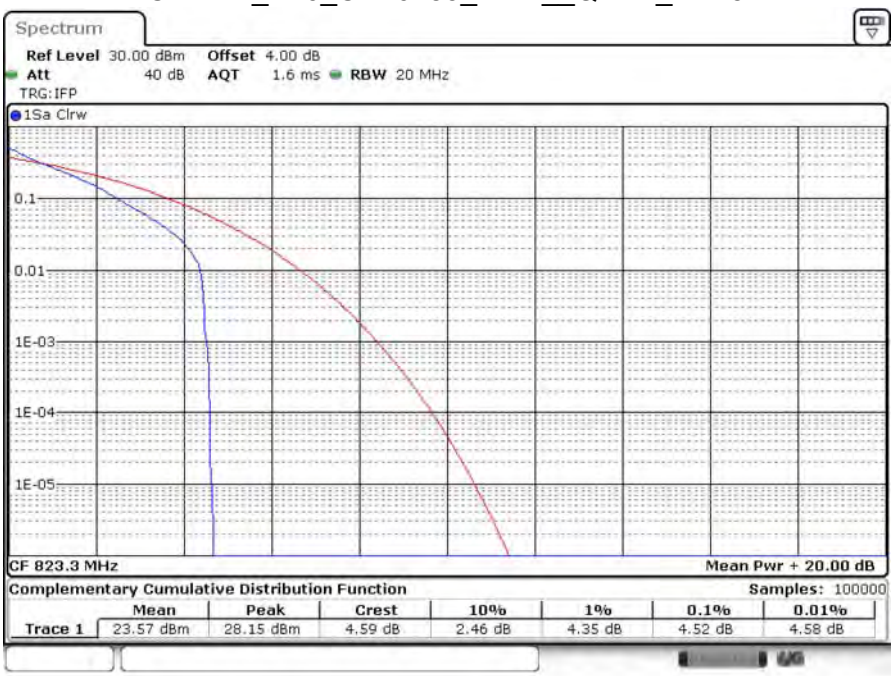

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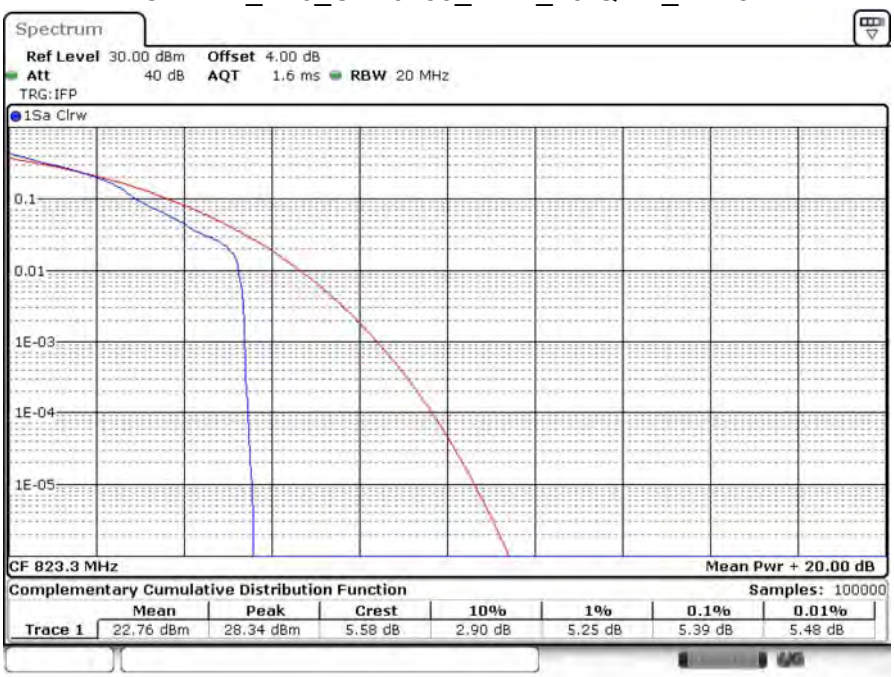

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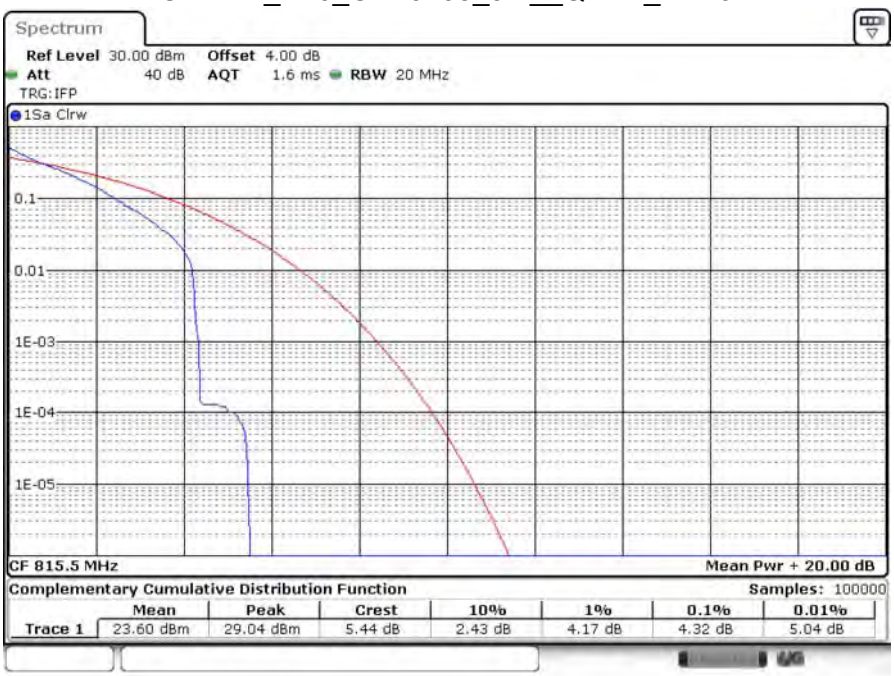

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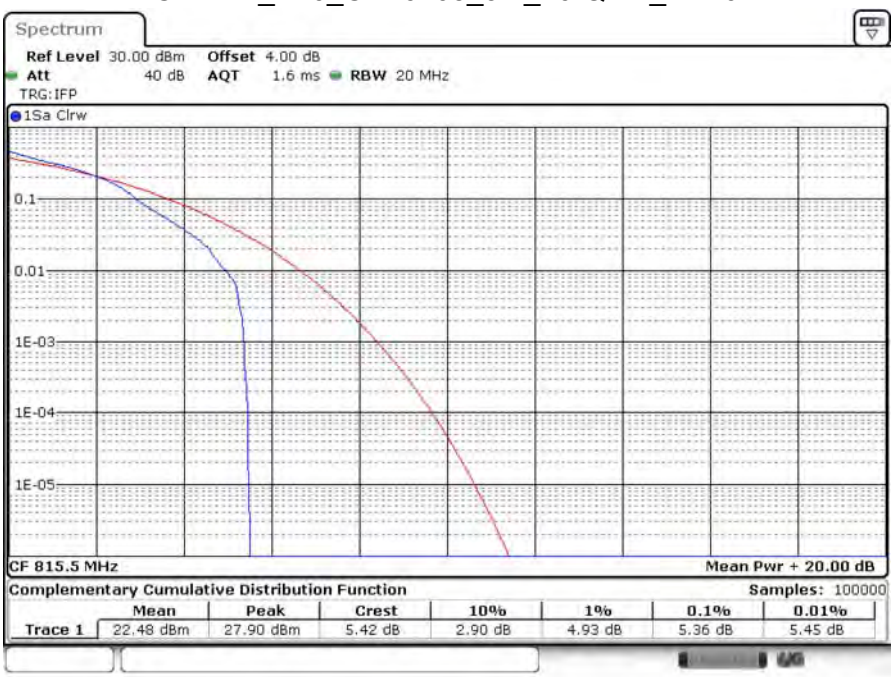

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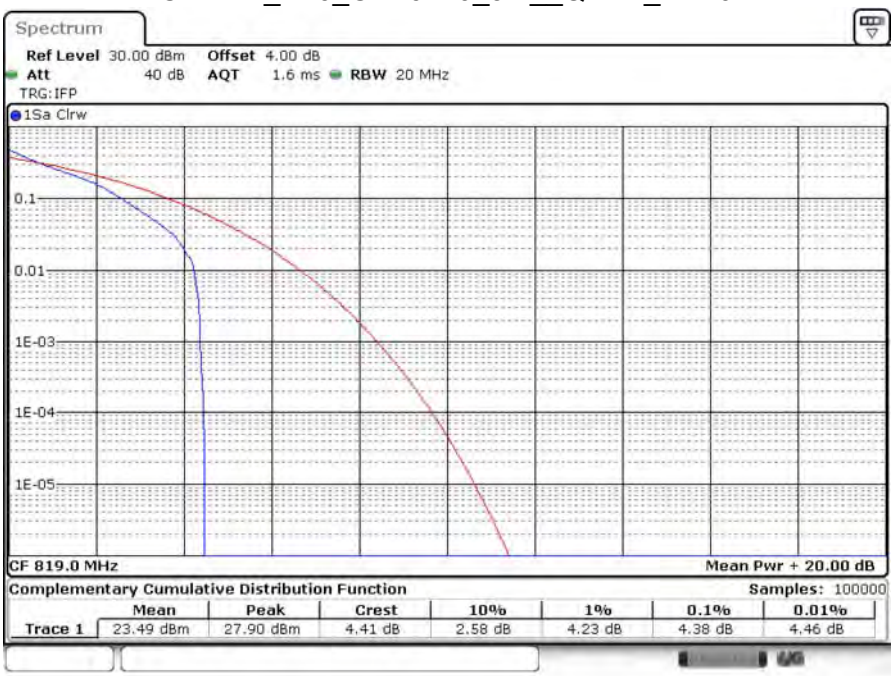

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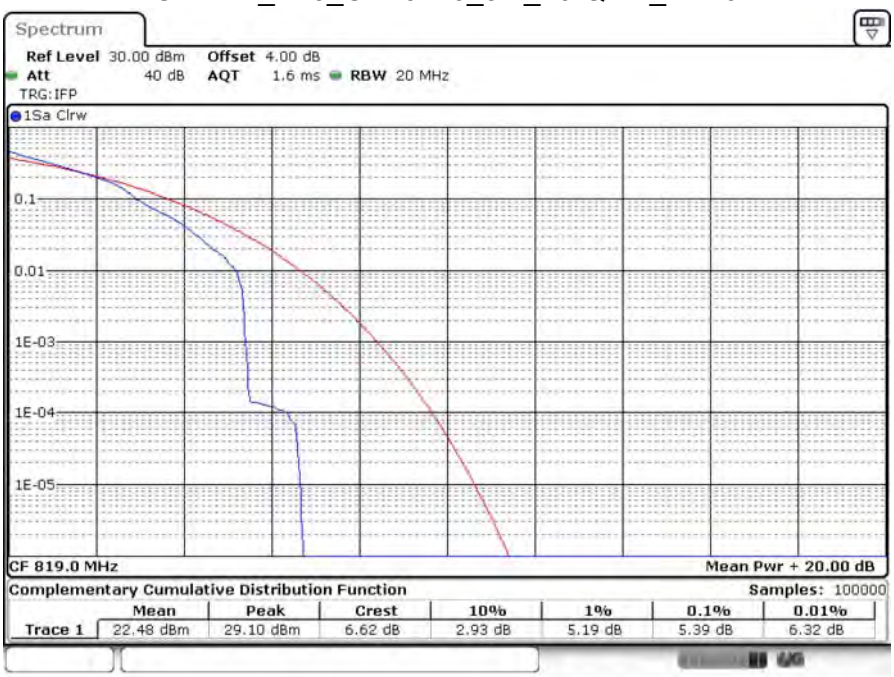

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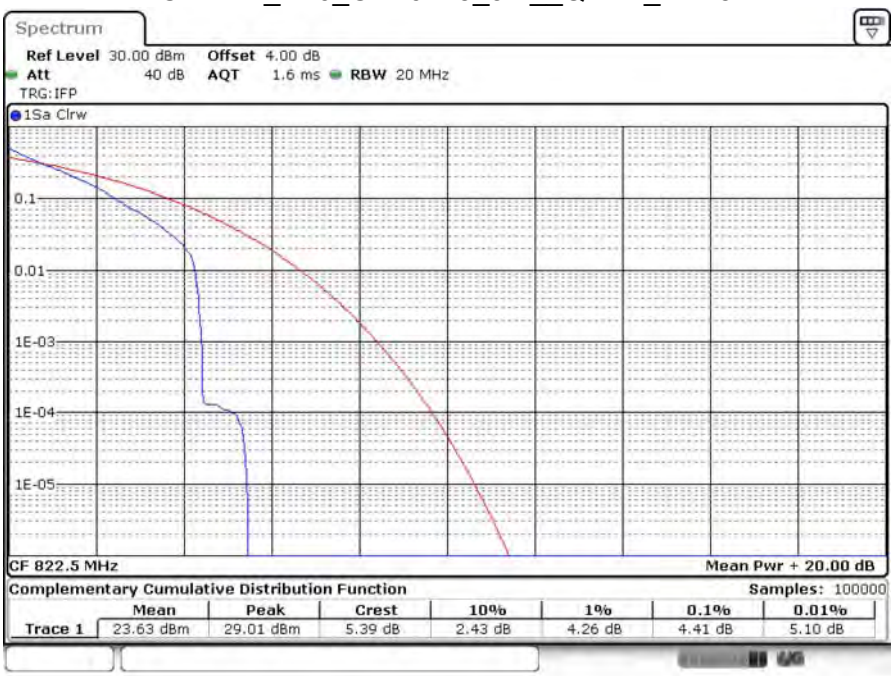

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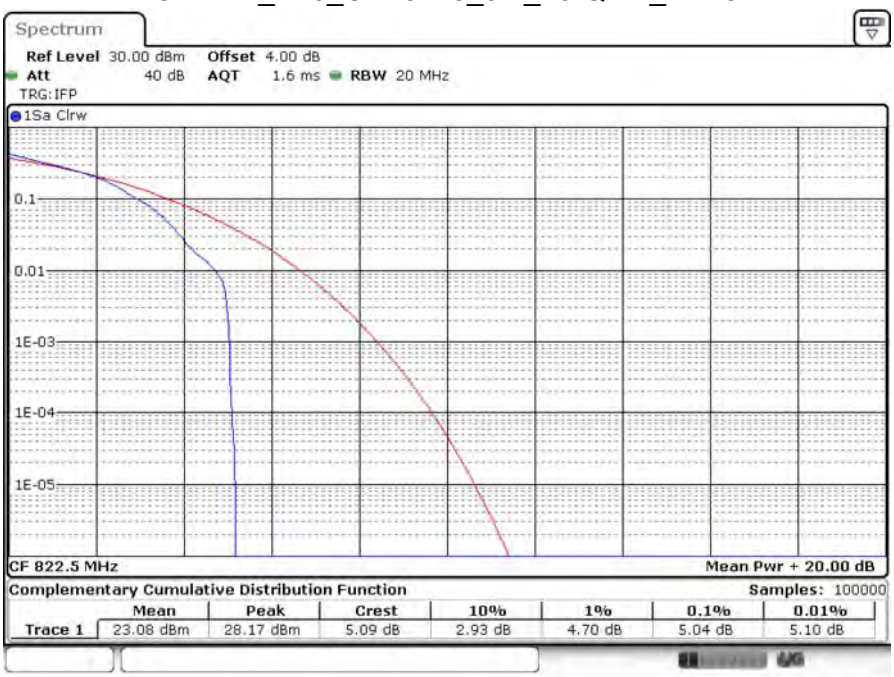

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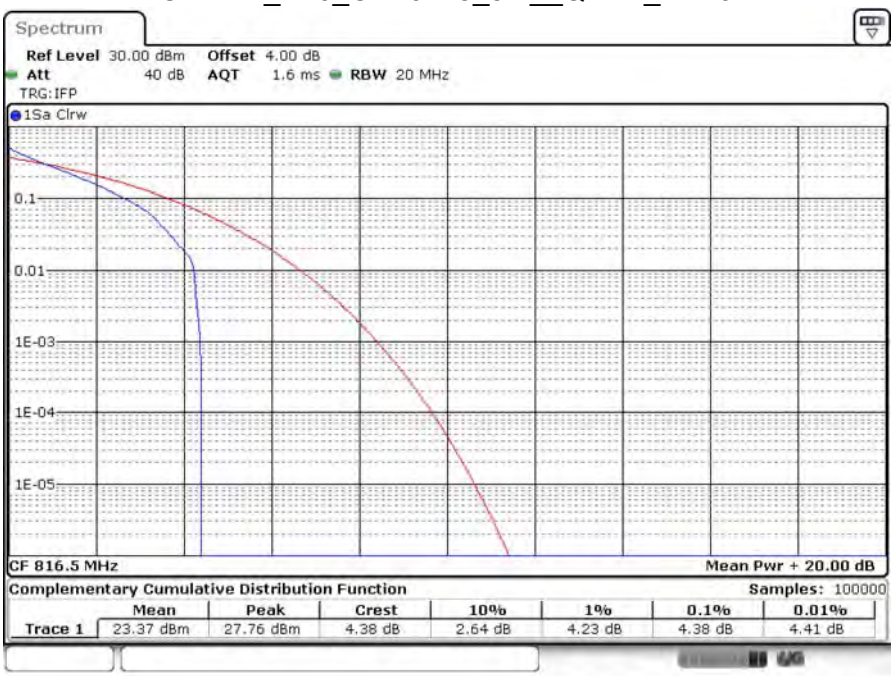

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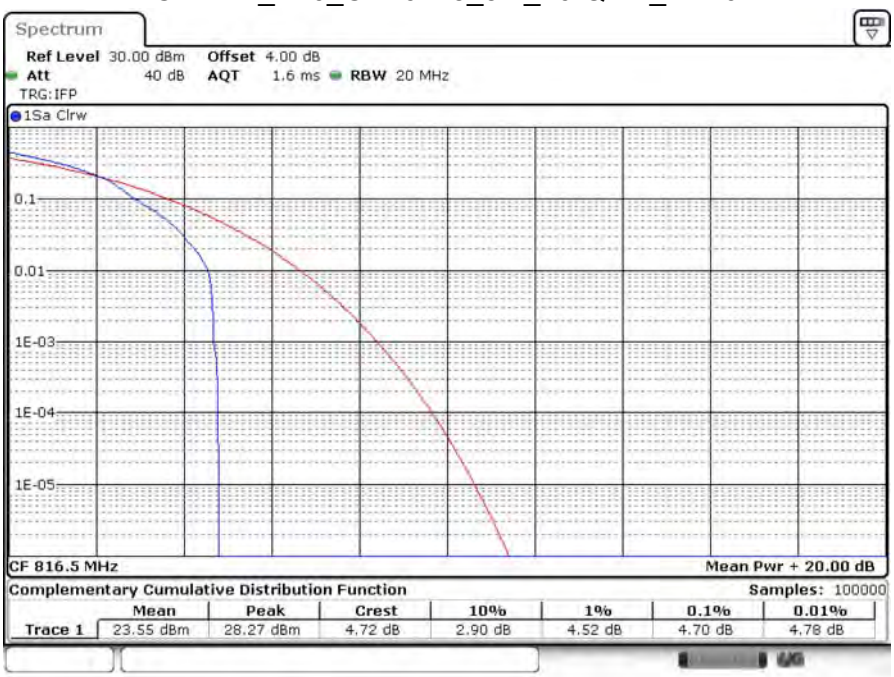

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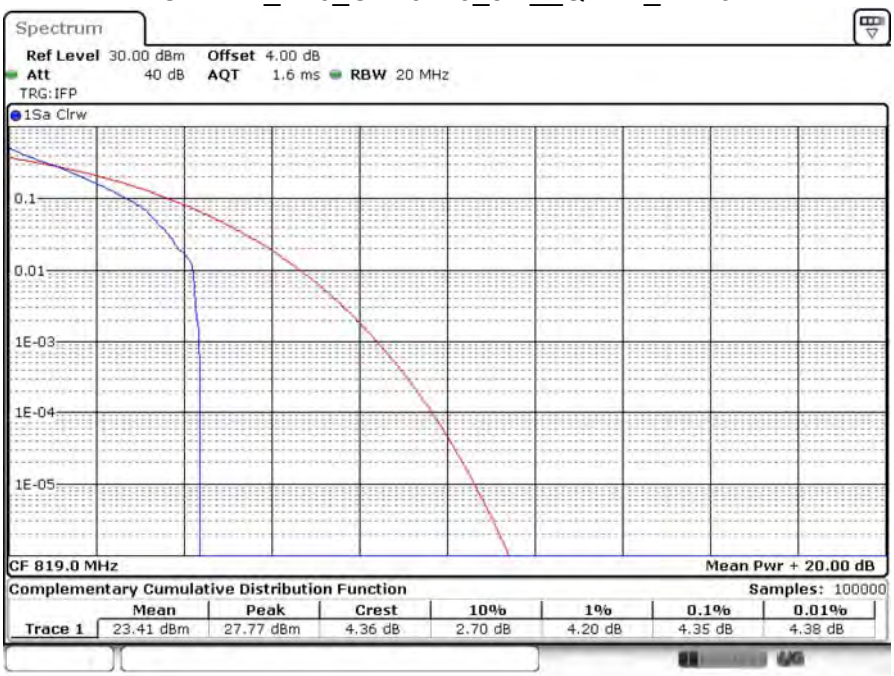

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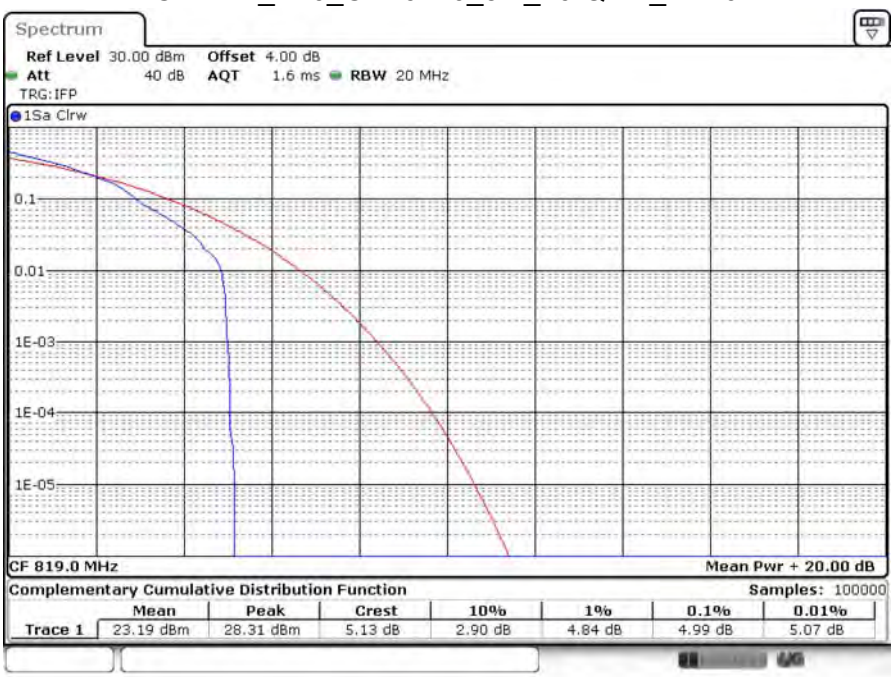

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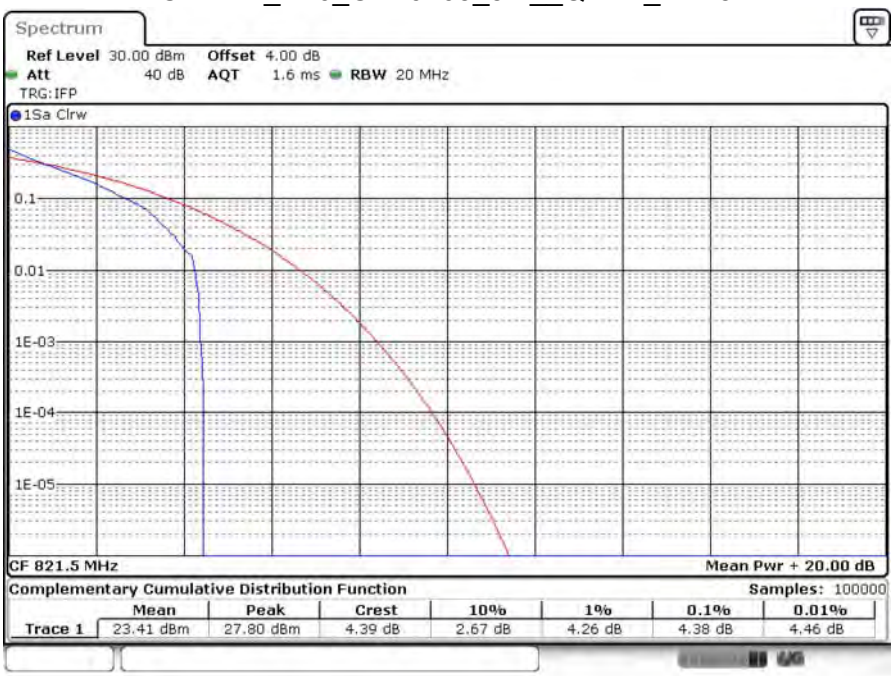

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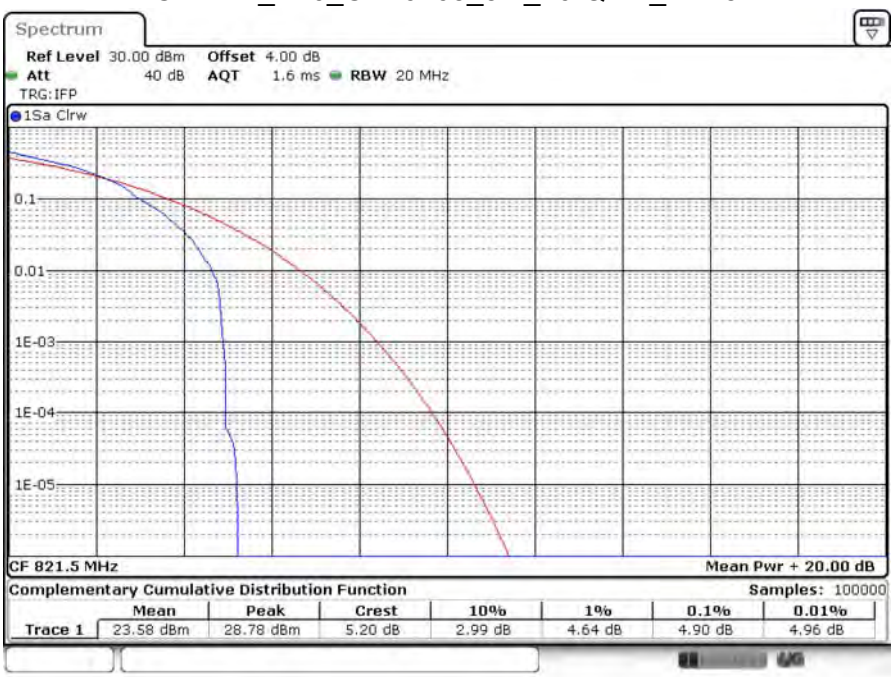

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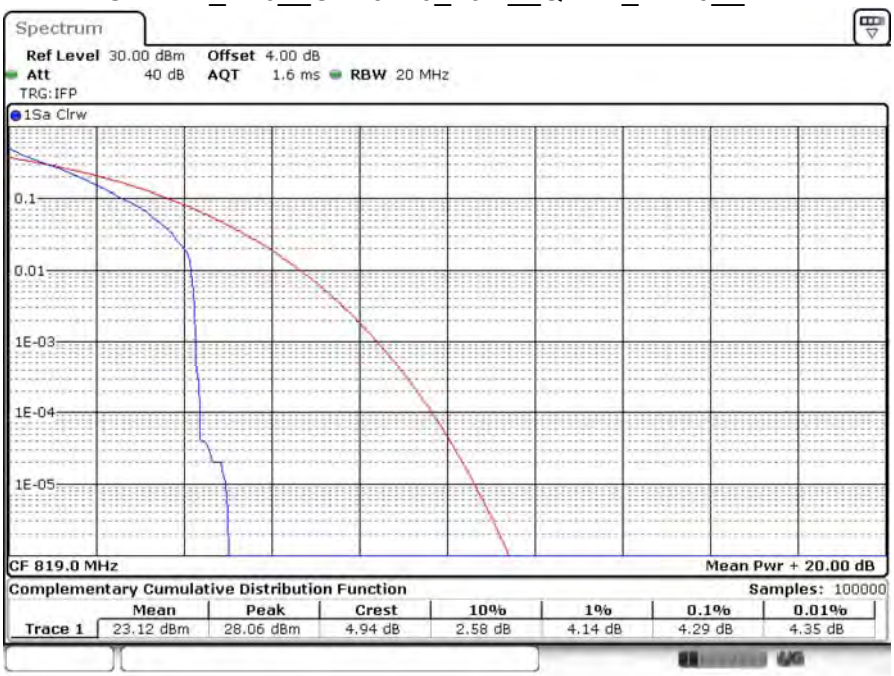

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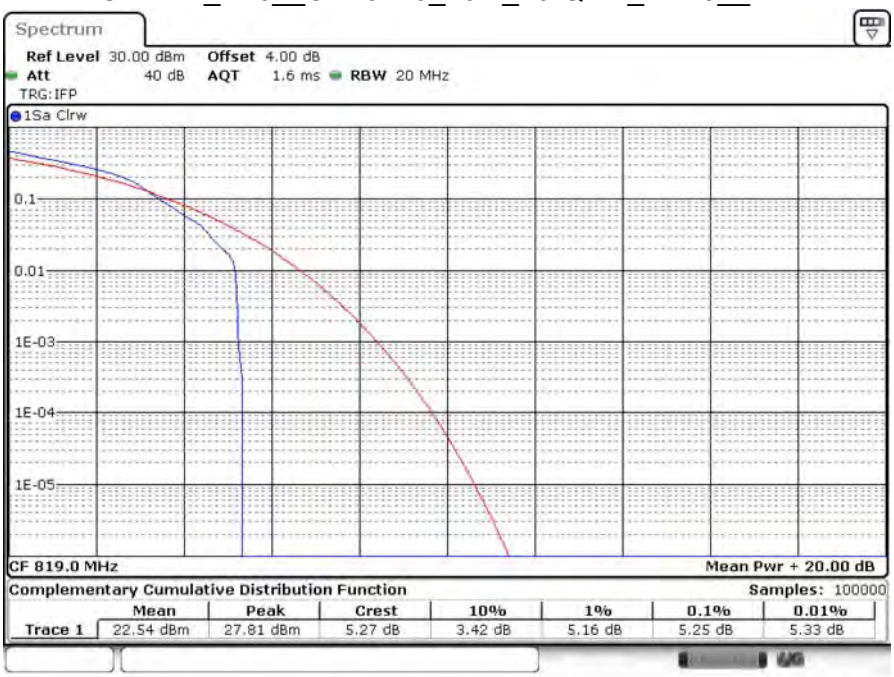

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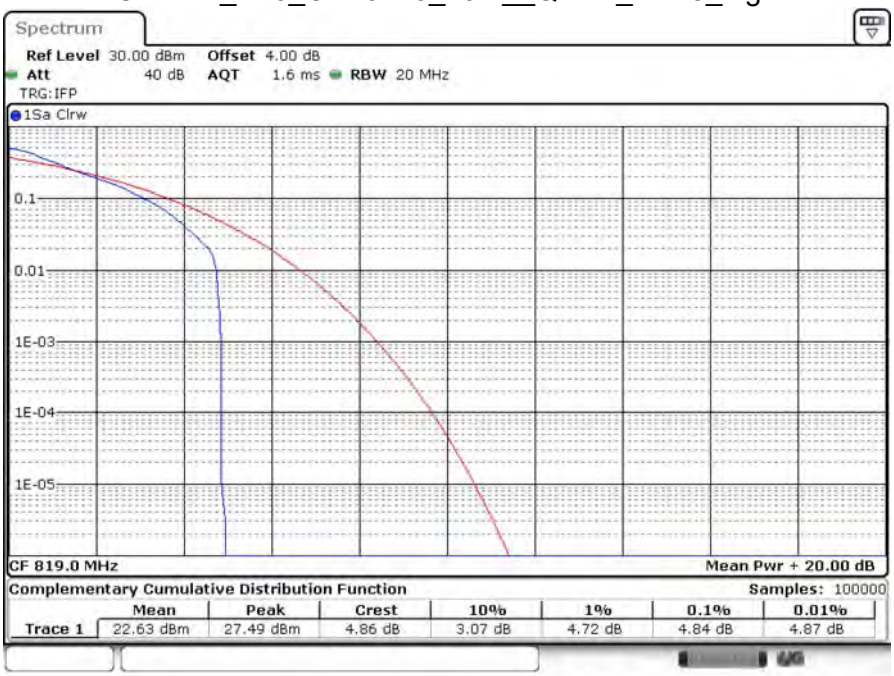

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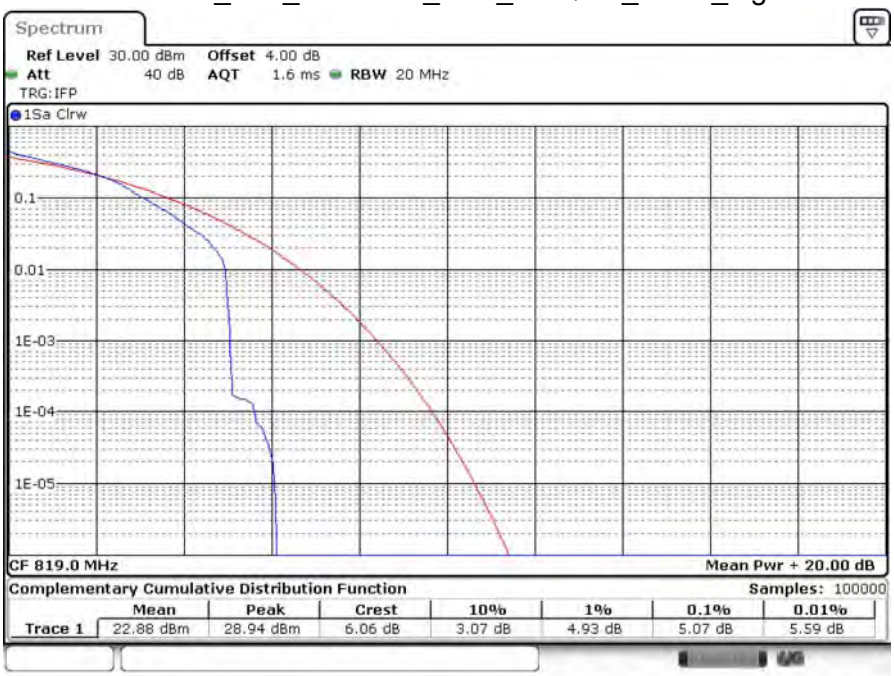

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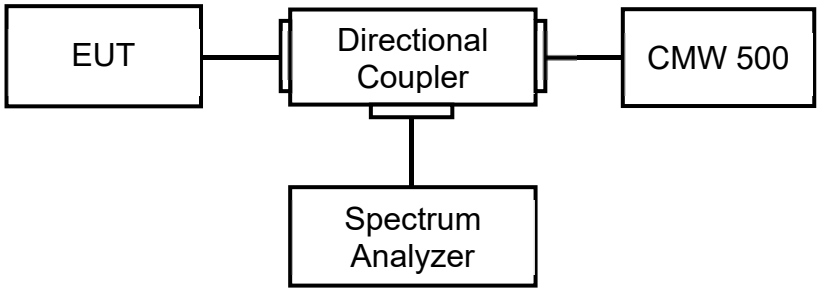
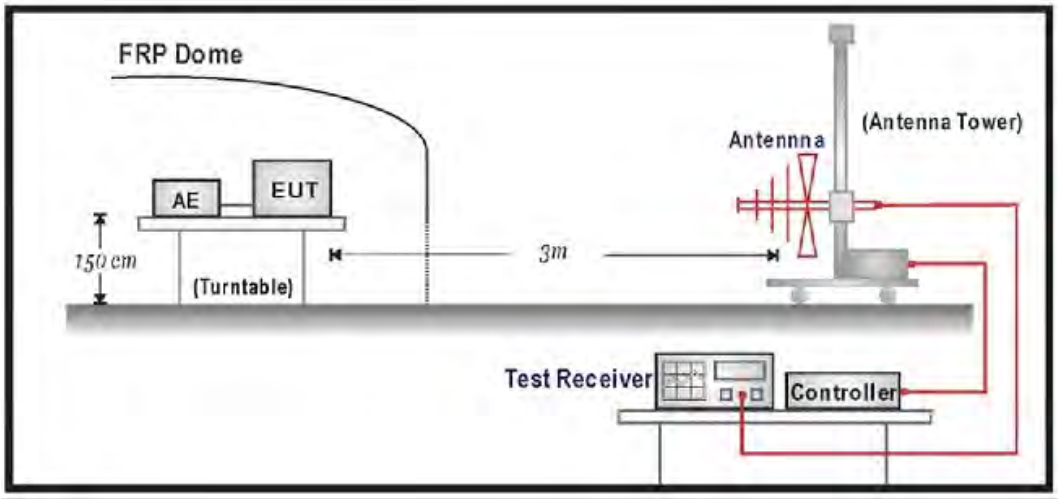
6. Spurious Emissions

6.1. Test Setup

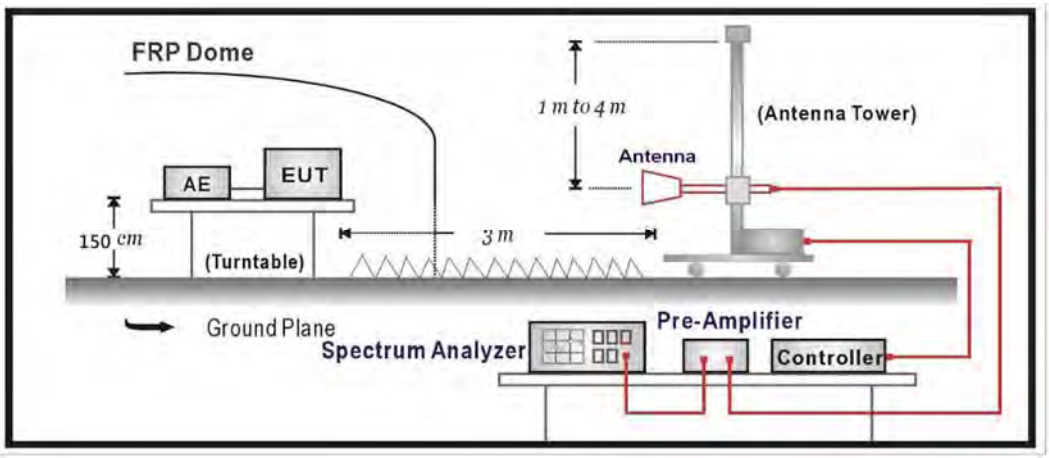
Conducted Spurious Measurement:



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 - Cable loss + 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

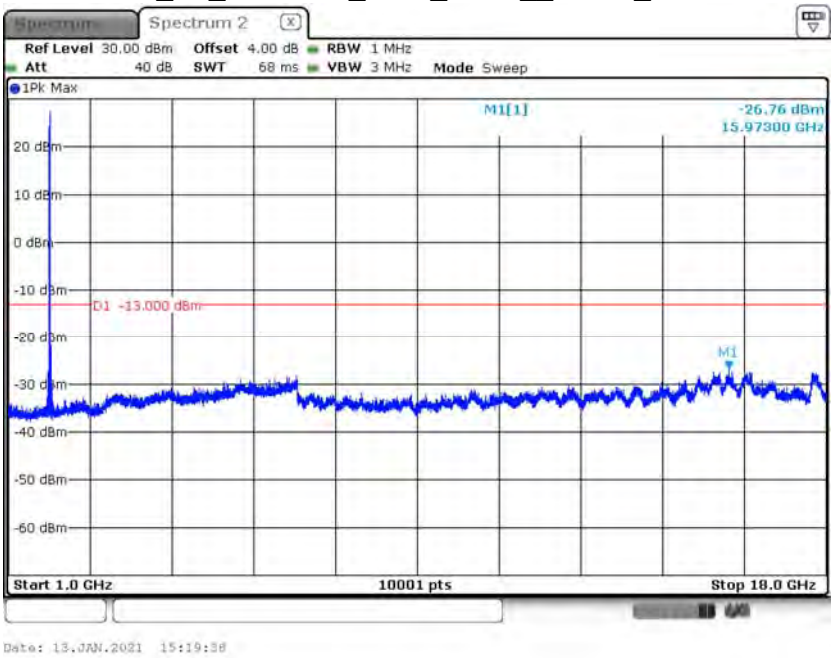
Radiated Spurious Measurement:

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

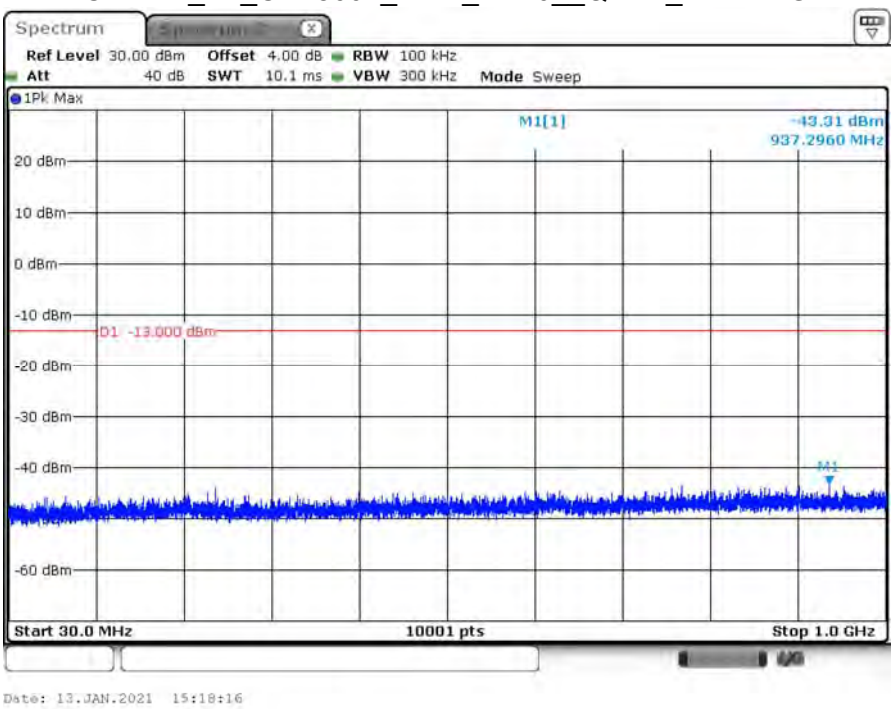
6.4. Test Result

Product	Connectivity Module		
Test Item	Conducted Spurious Emissions		
Test Mode	Mode 1: Band2 Link		
Date of Test	2021/01/13	Test Site	SR12-H
Temperature (°C)	20	Humidity (%RH)	59

CAT-M1_B2_CH18607_1.4M_1RB0__QPSK_Above 1G



CAT-M1_B2_CH18607_1.4M_1RB0__QPSK_Below 1G



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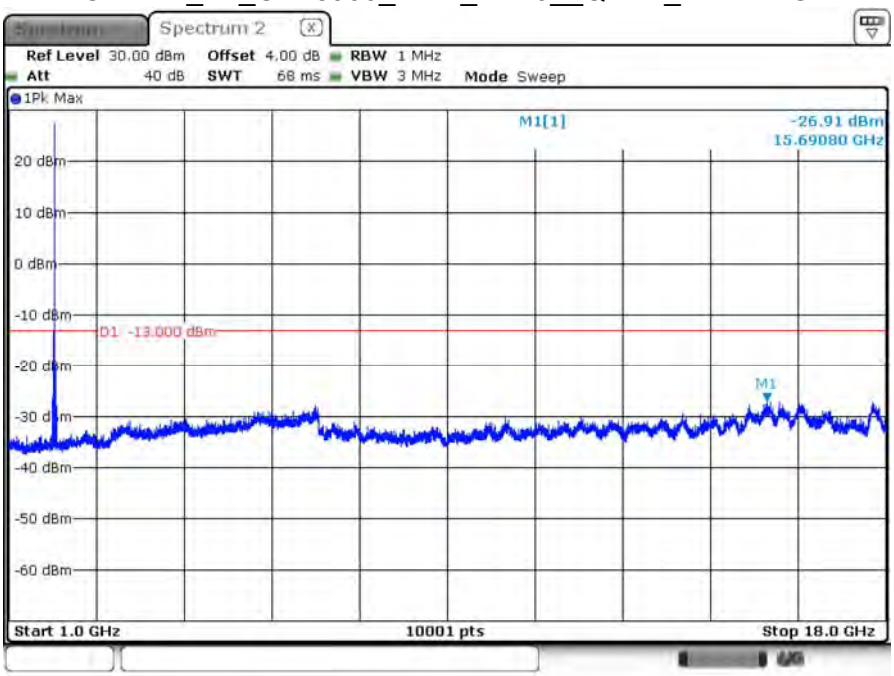
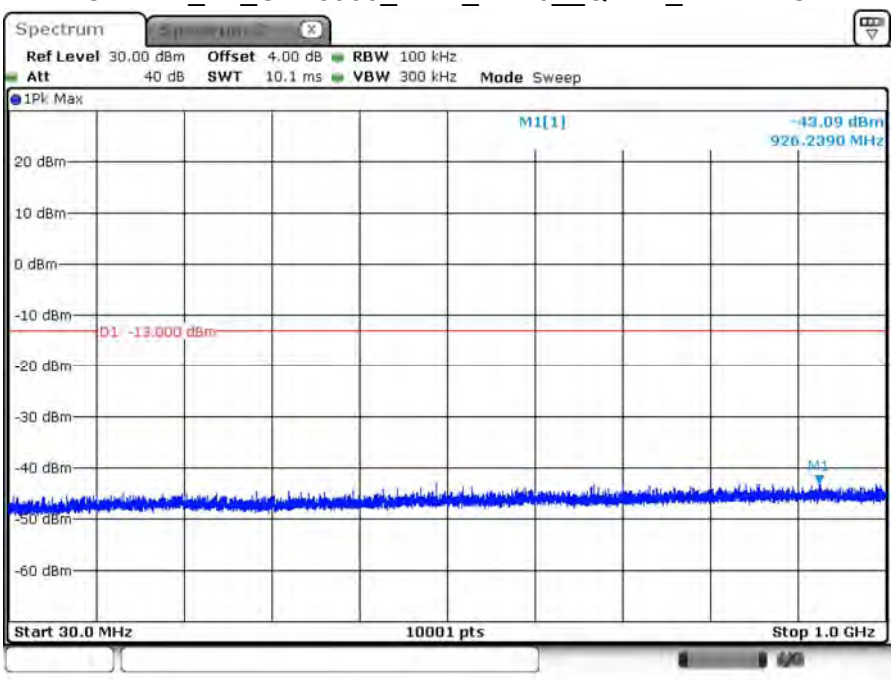


CAT-M1_B2_CH18900_1.4M_1RB0__QPSK_Below 1G



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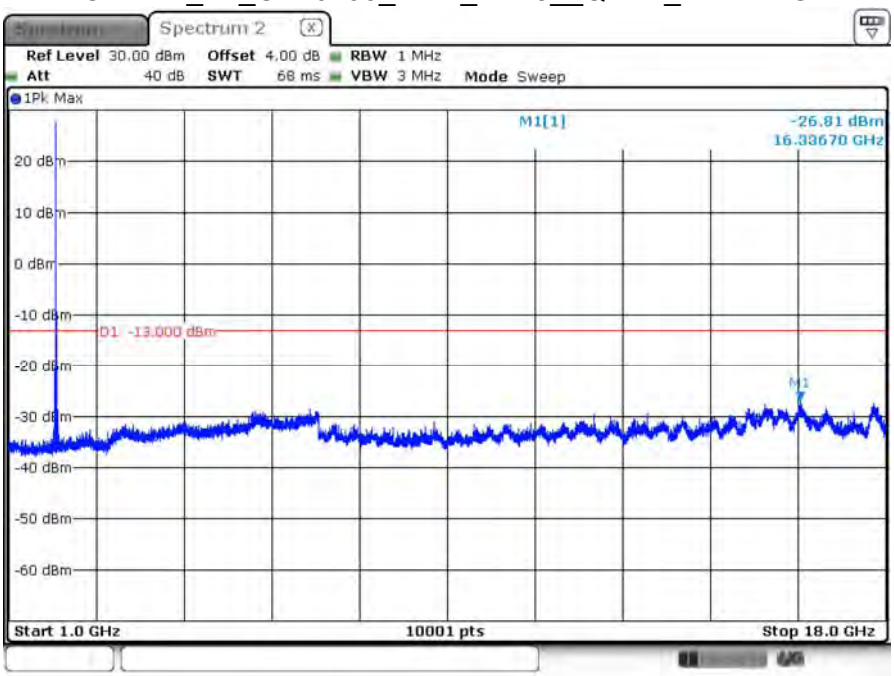

Date: 13.JAN.2021 15:26:43

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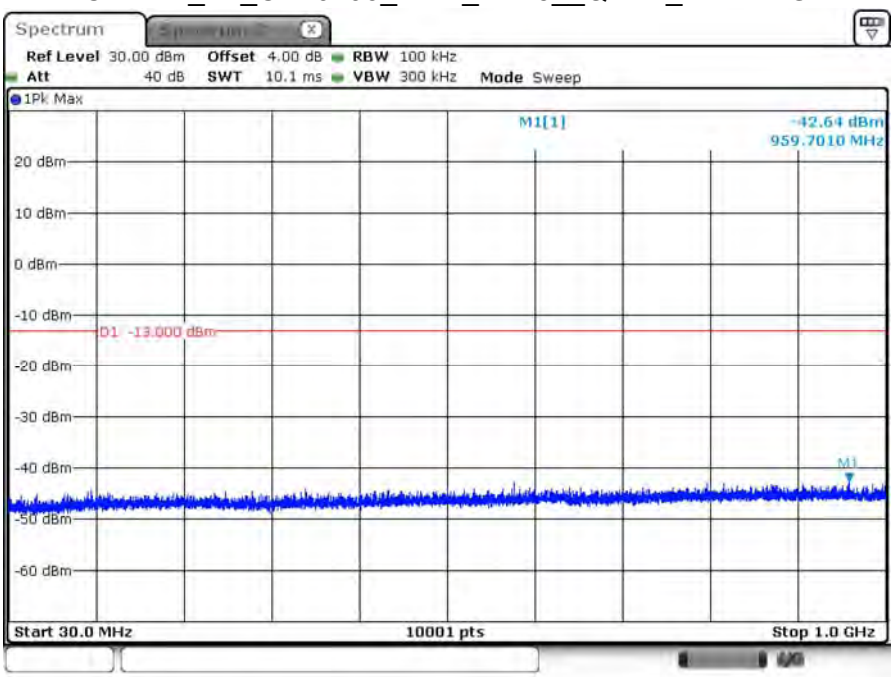

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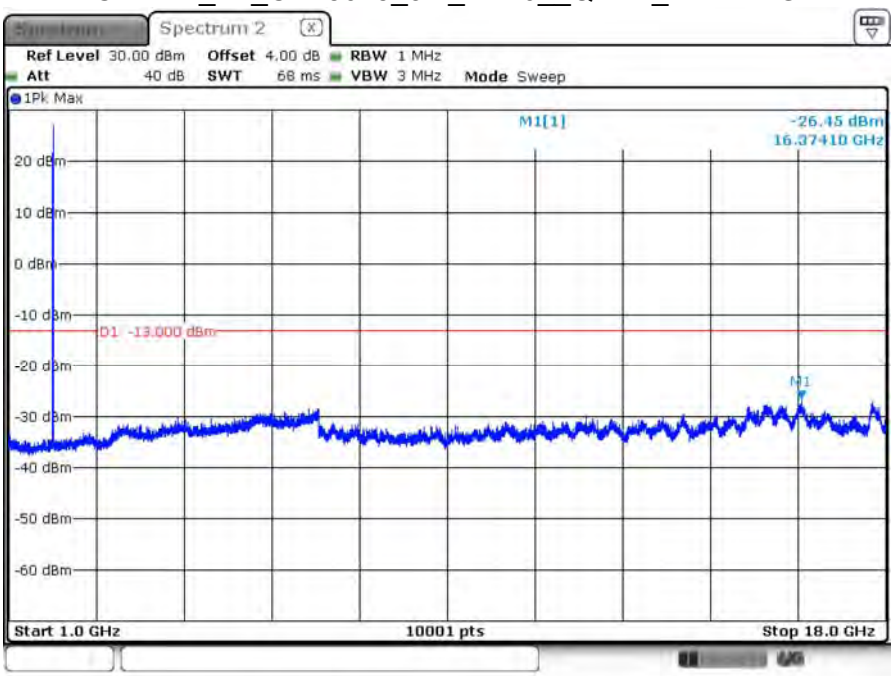

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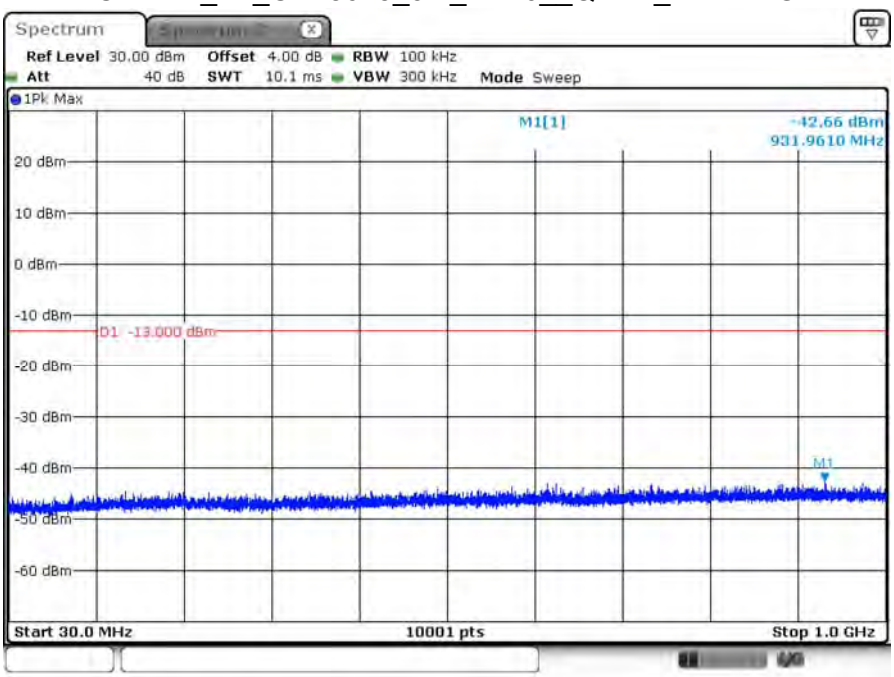

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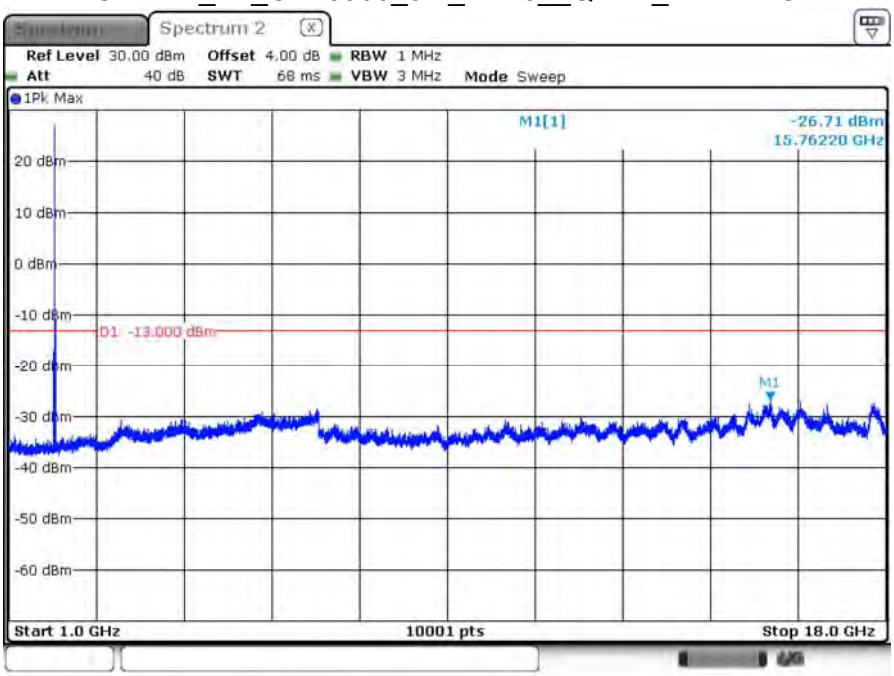

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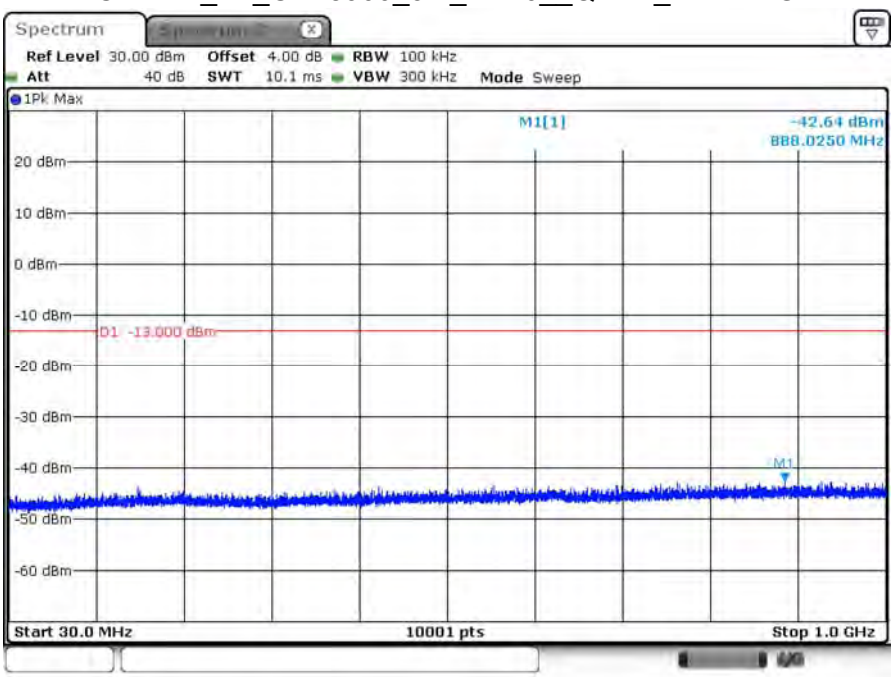

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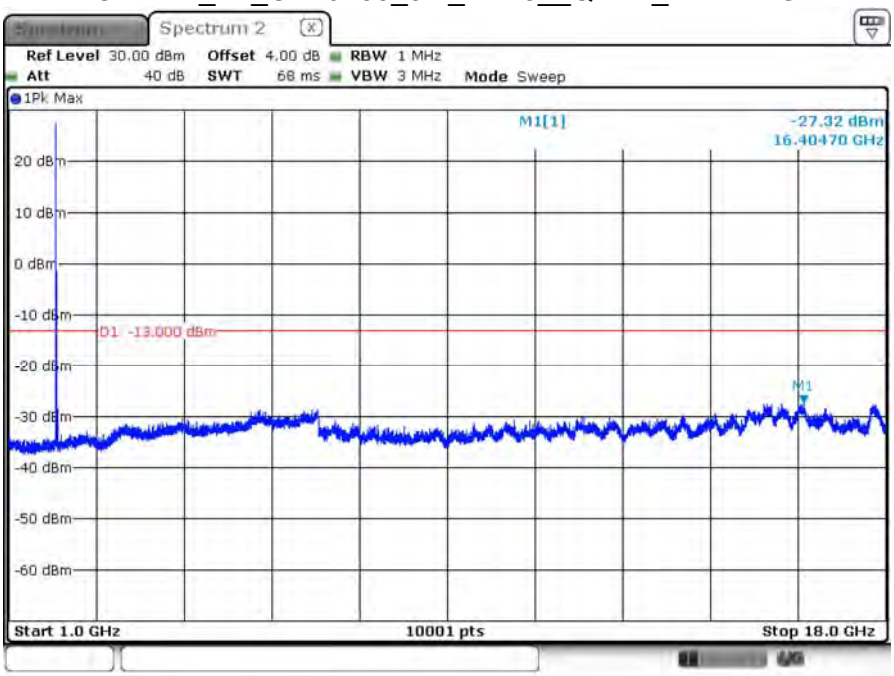

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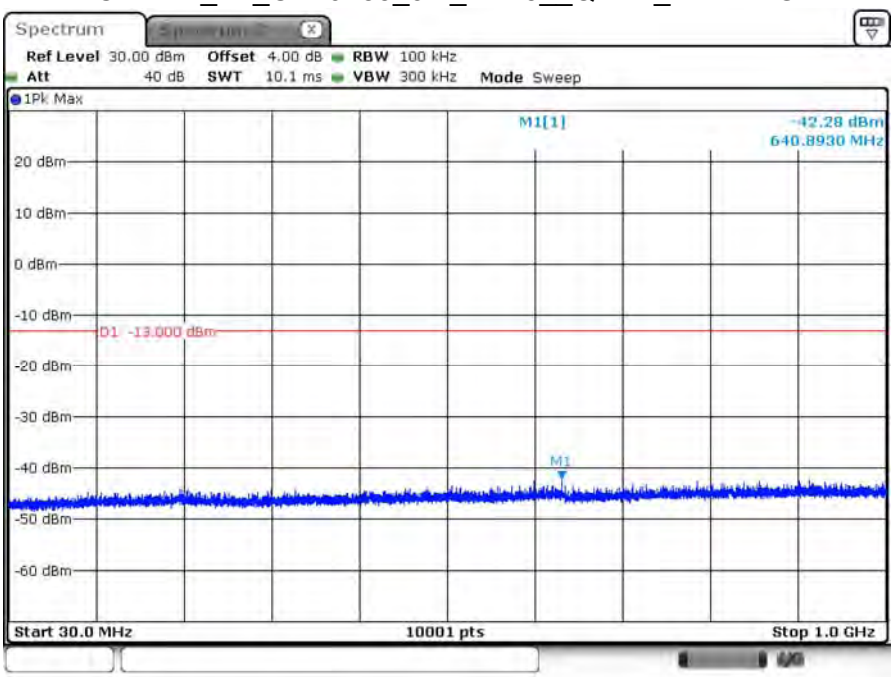

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