

# LTE B48

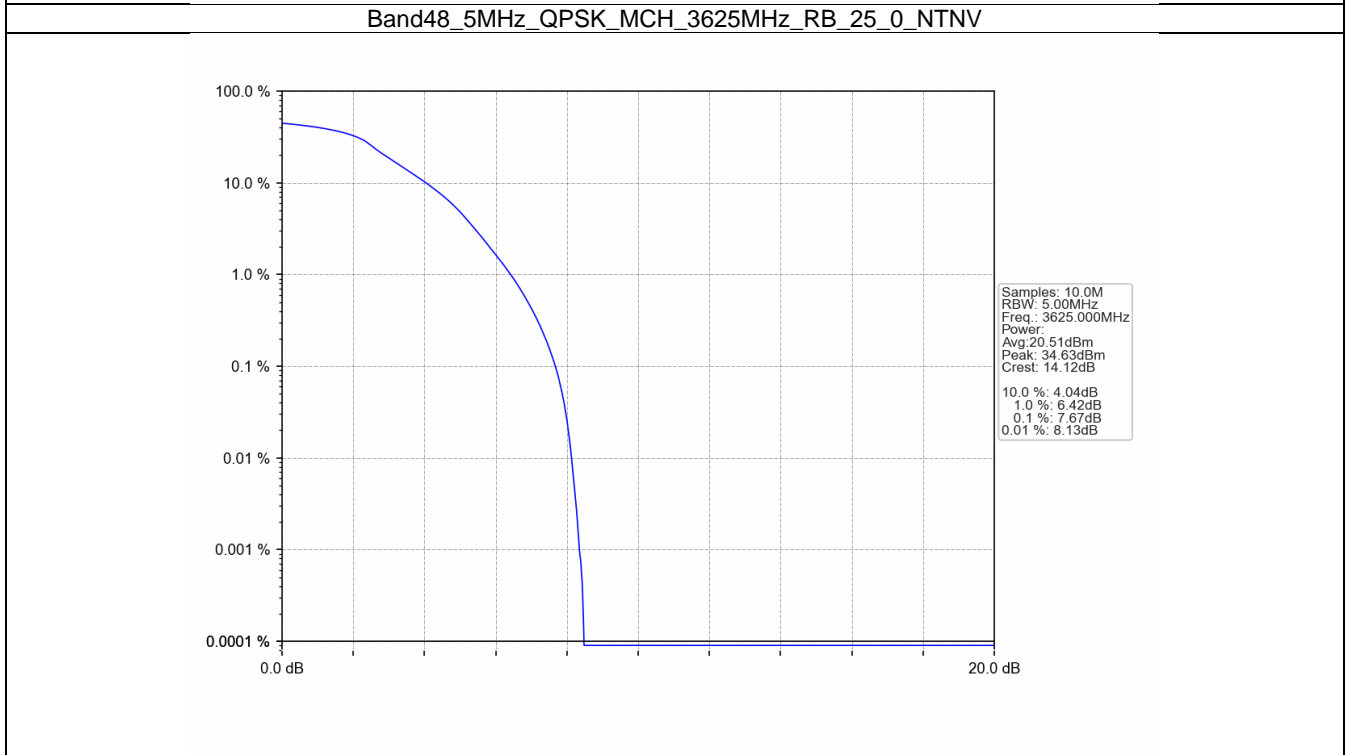
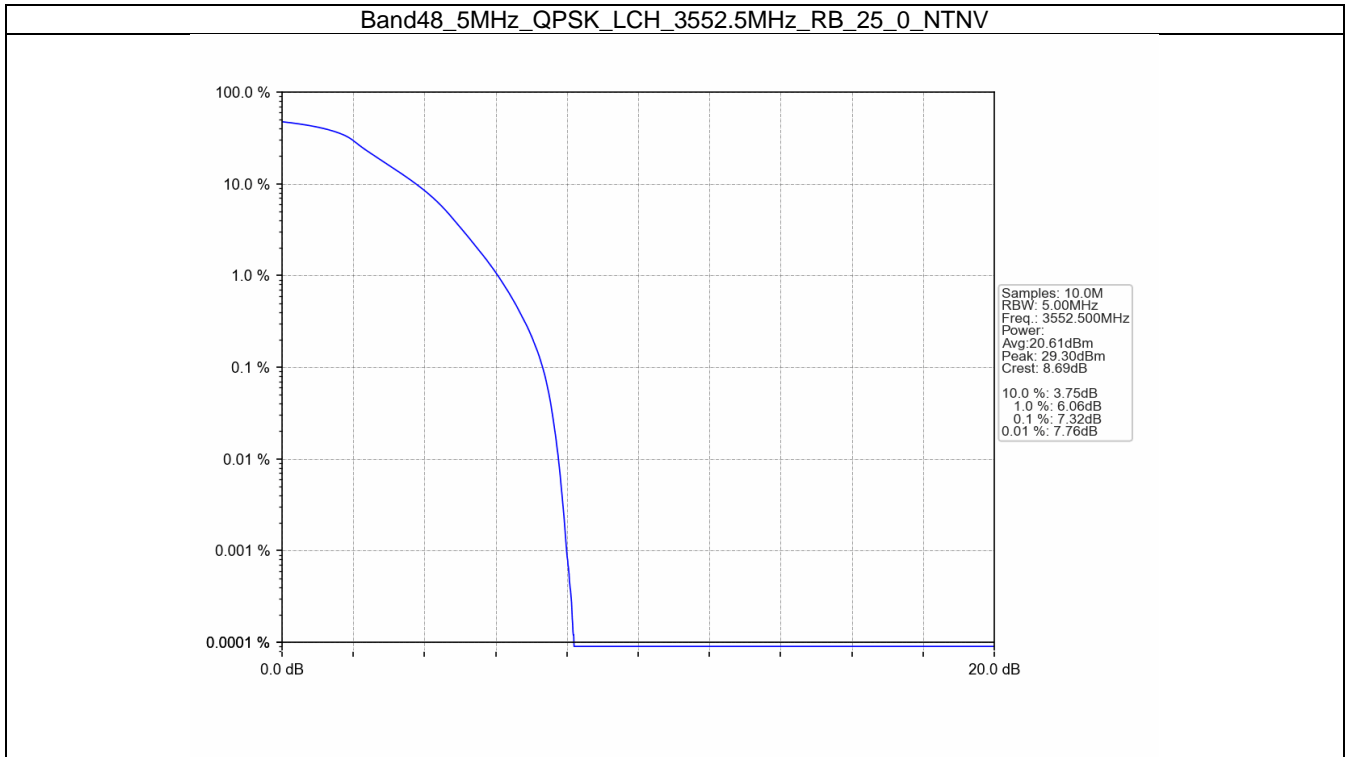
## 1. Peak-Average Ratio

### 1.1 B48\_5MHz

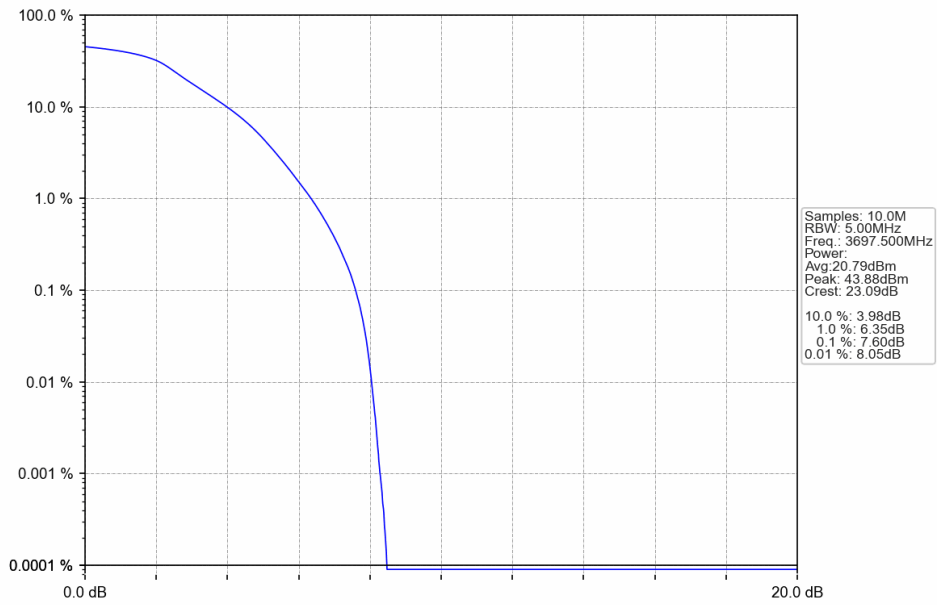
#### 1.1.1 Test Result

Band: 48 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3552.5	25	0	7.32	<=13	Pass
	3625	25	0	7.67	<=13	Pass
	3697.5	25	0	7.60	<=13	Pass
16QAM	3552.5	25	0	8.27	<=13	Pass
	3625	25	0	8.27	<=13	Pass
	3697.5	25	0	8.33	<=13	Pass

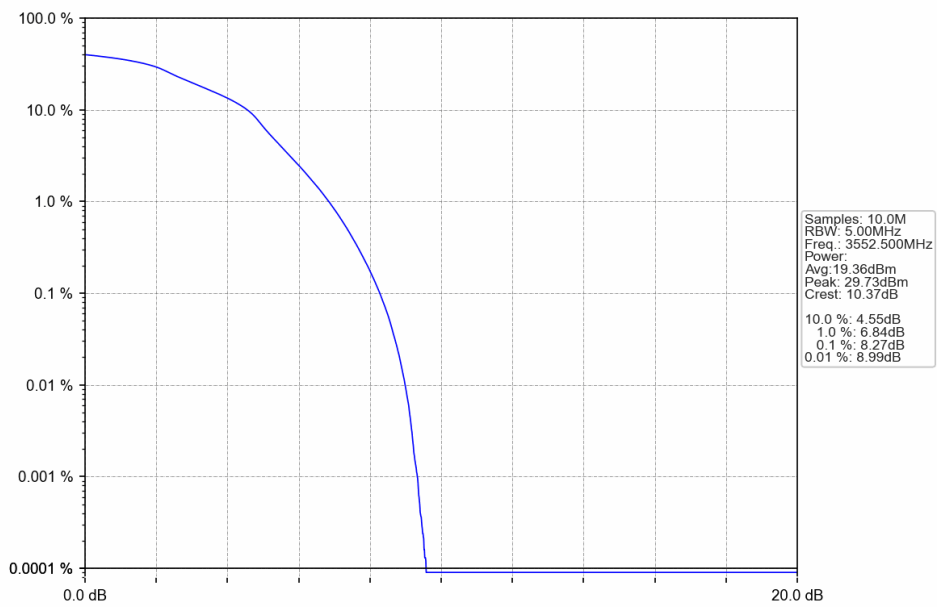
### 1.1.2 Test Graph



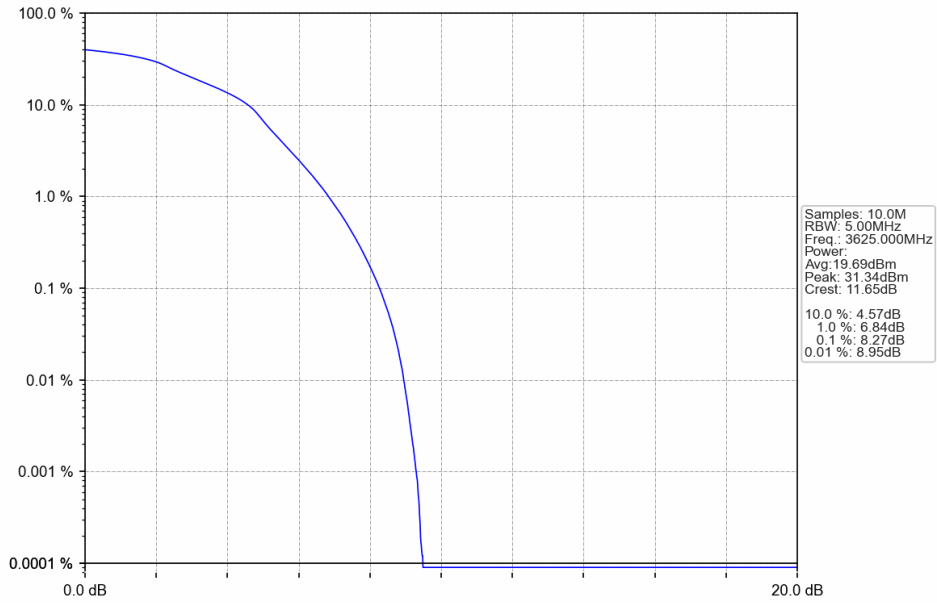
Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



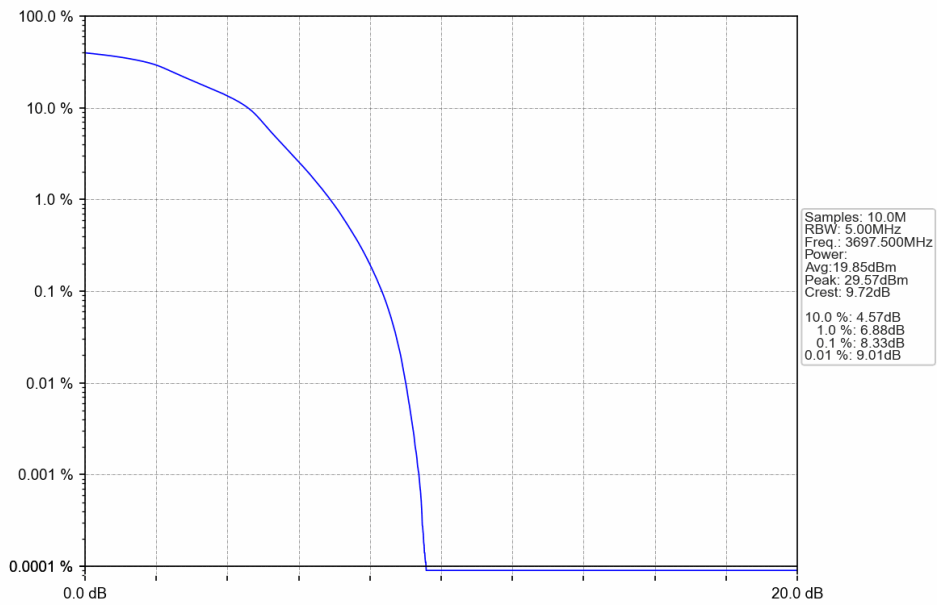
Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV

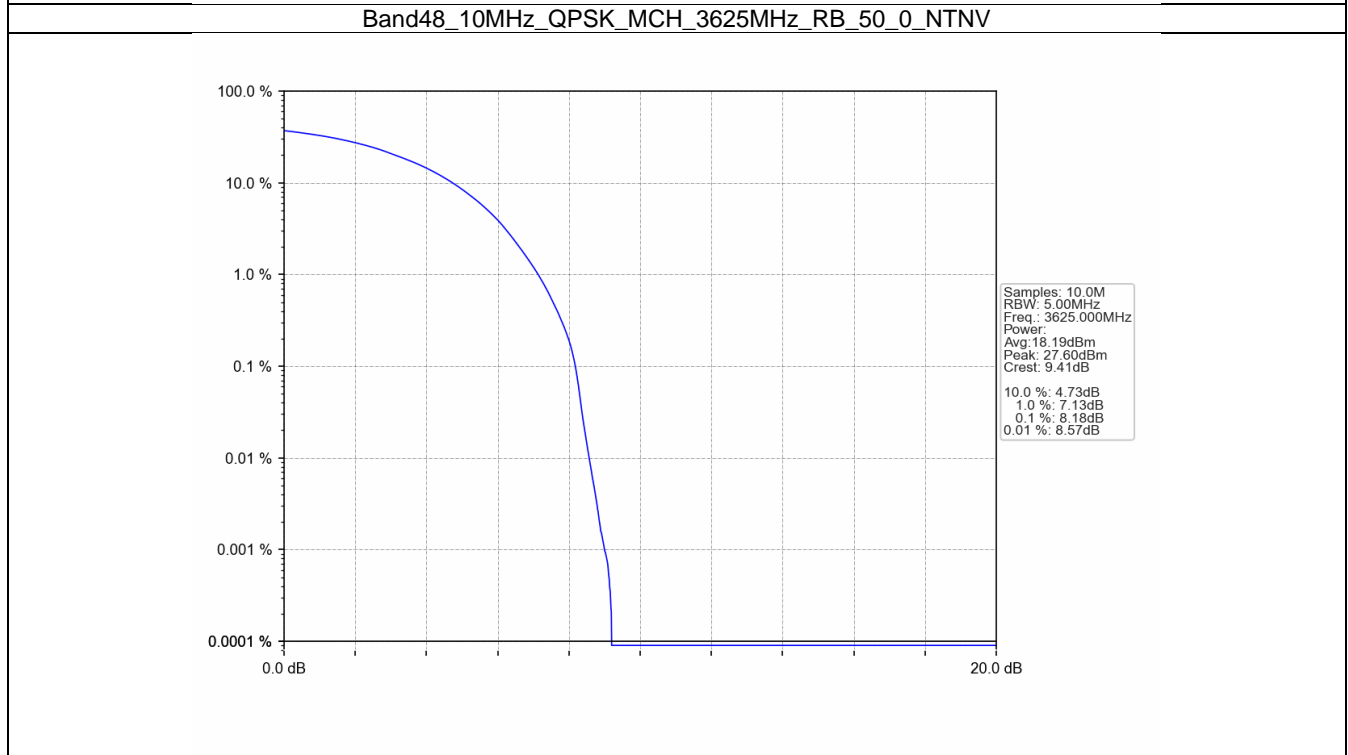
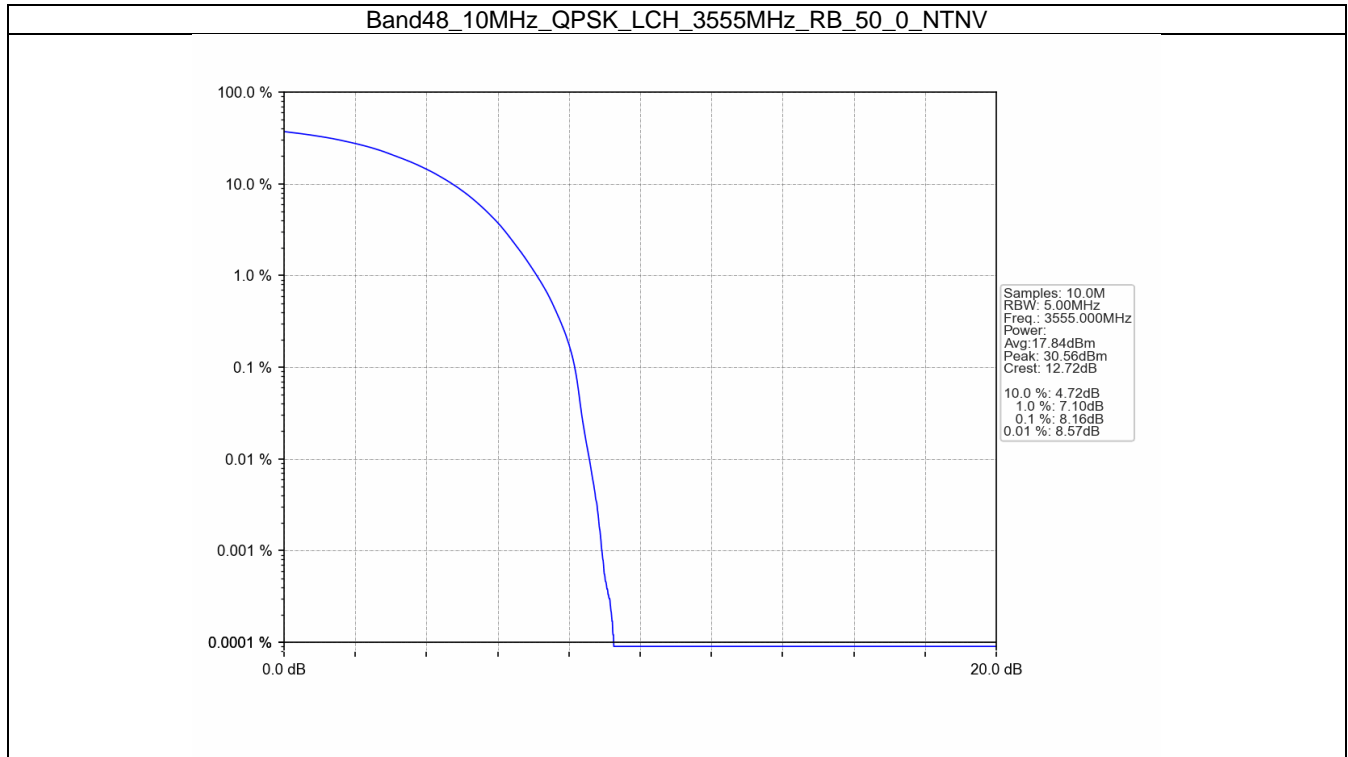


## 1.2 B48\_10MHz

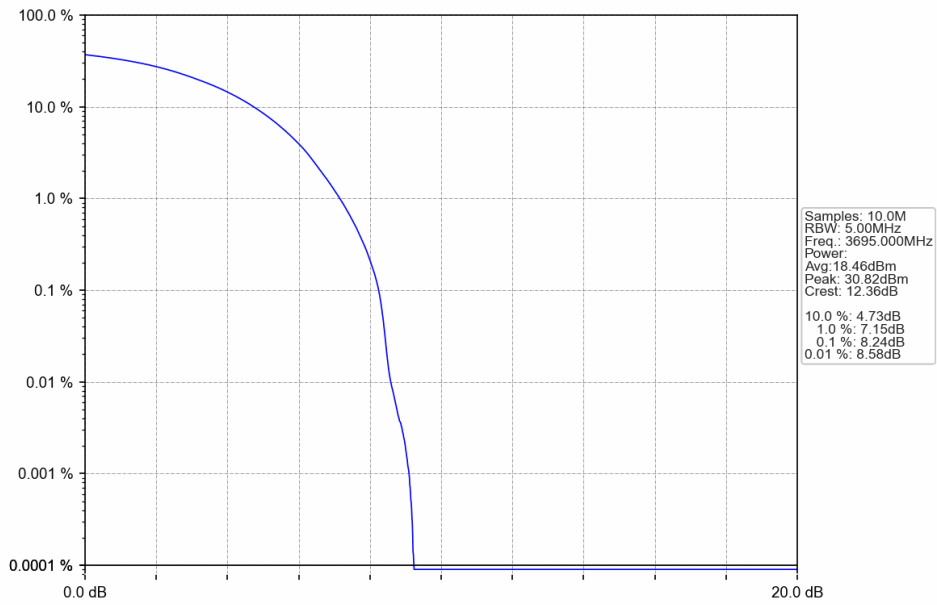
### 1.2.1 Test Result

Band: 48 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	50	0	8.16	<=13	Pass
	3625	50	0	8.18	<=13	Pass
	3695	50	0	8.24	<=13	Pass
16QAM	3555	50	0	8.90	<=13	Pass
	3625	50	0	8.83	<=13	Pass
	3695	50	0	8.88	<=13	Pass

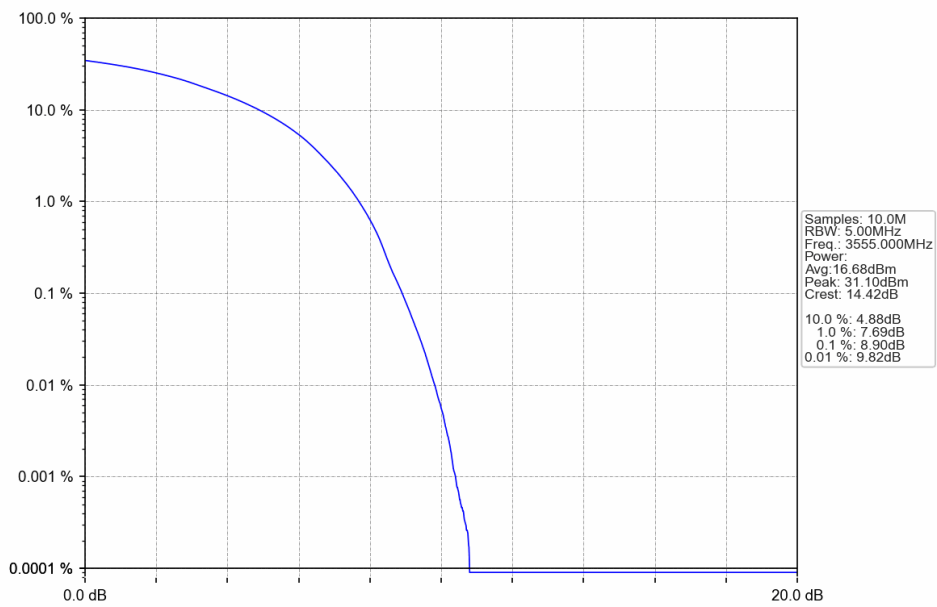
## 1.2.2 Test Graph



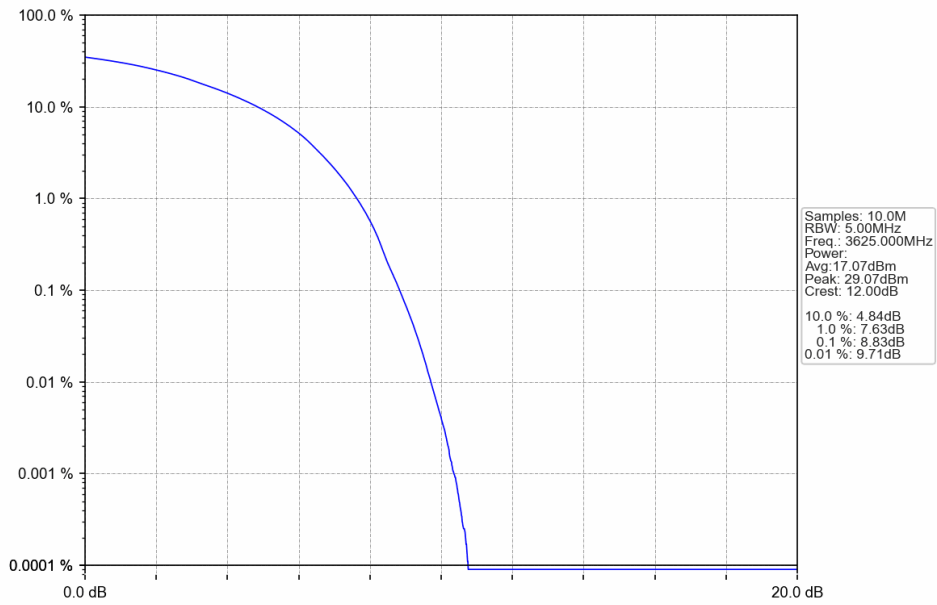
Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV



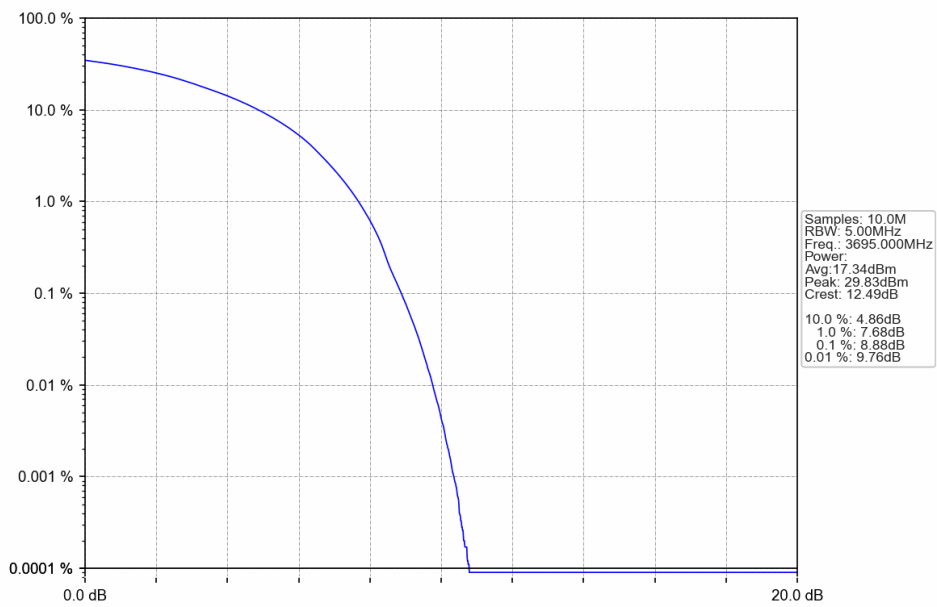
Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_16QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV



Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV



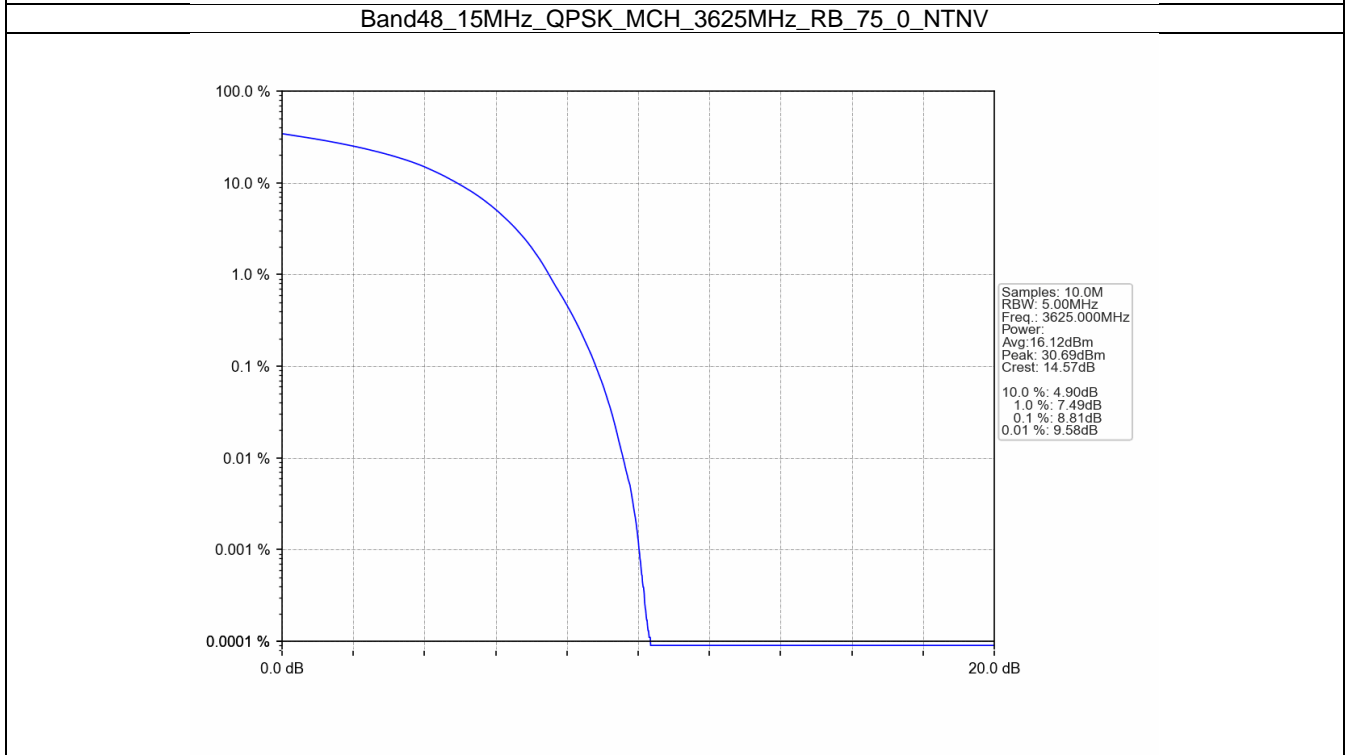
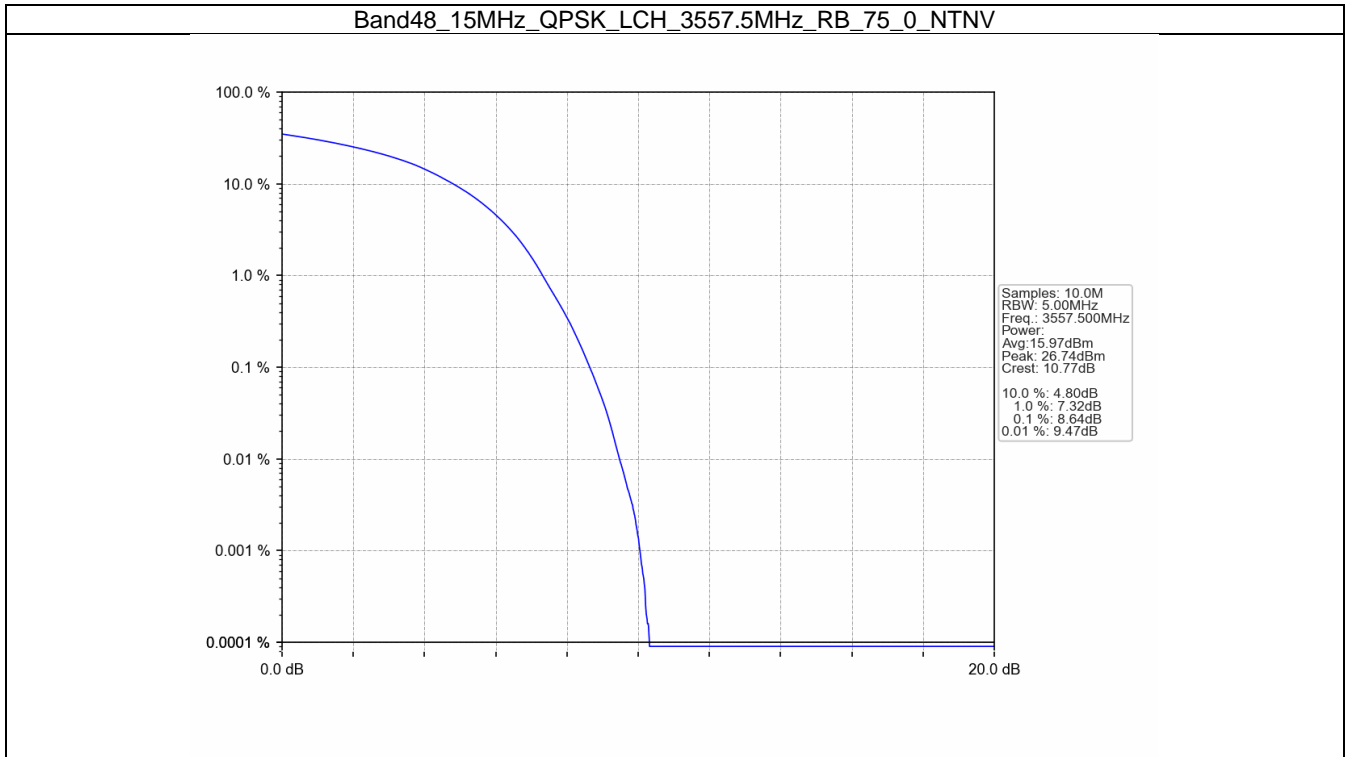


### 1.3 B48\_15MHz

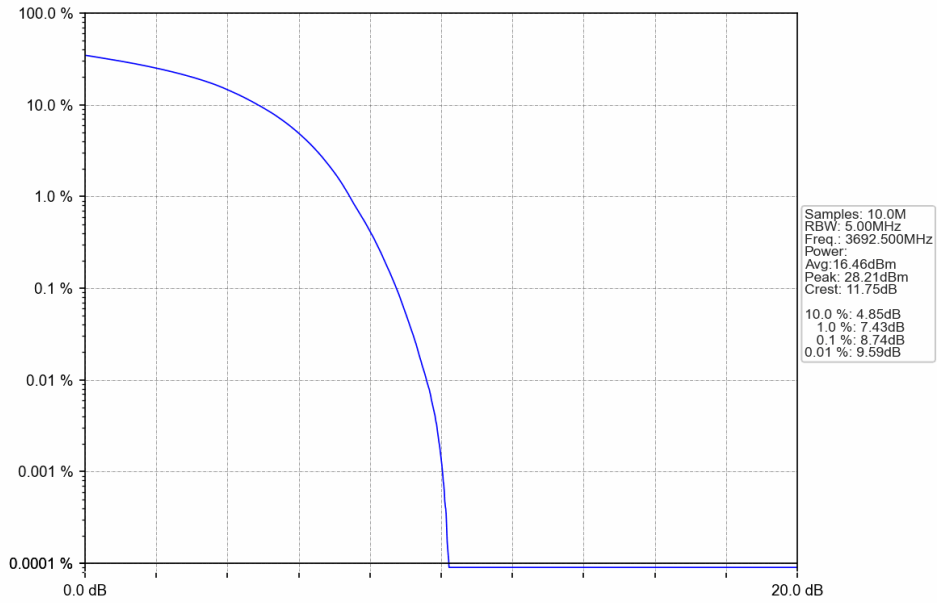
#### 1.3.1 Test Result

Band: 48 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3557.5	75	0	8.64	<=13	Pass
	3625	75	0	8.81	<=13	Pass
	3692.5	75	0	8.74	<=13	Pass
16QAM	3557.5	75	0	9.21	<=13	Pass
	3625	75	0	9.24	<=13	Pass
	3692.5	75	0	9.19	<=13	Pass

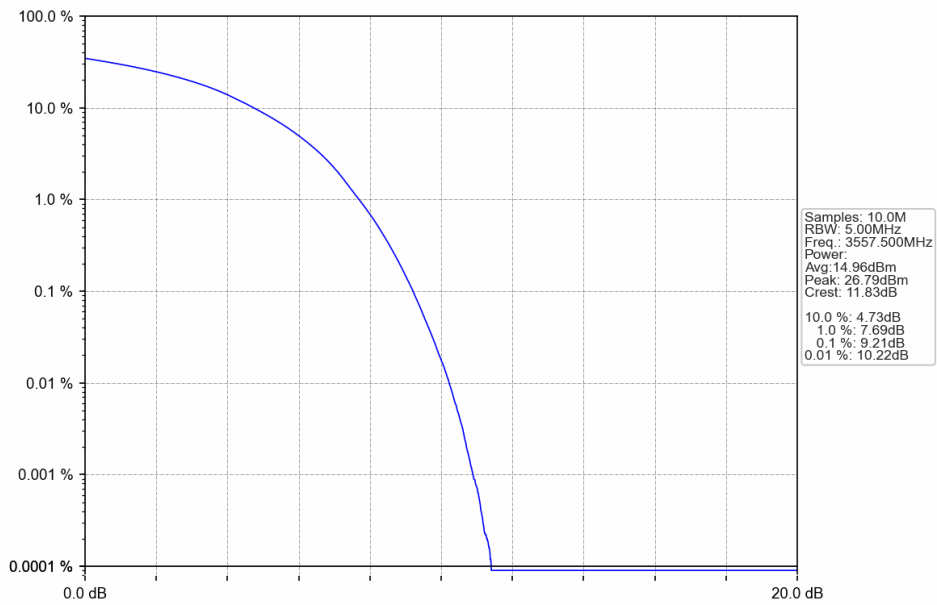
### 1.3.2 Test Graph



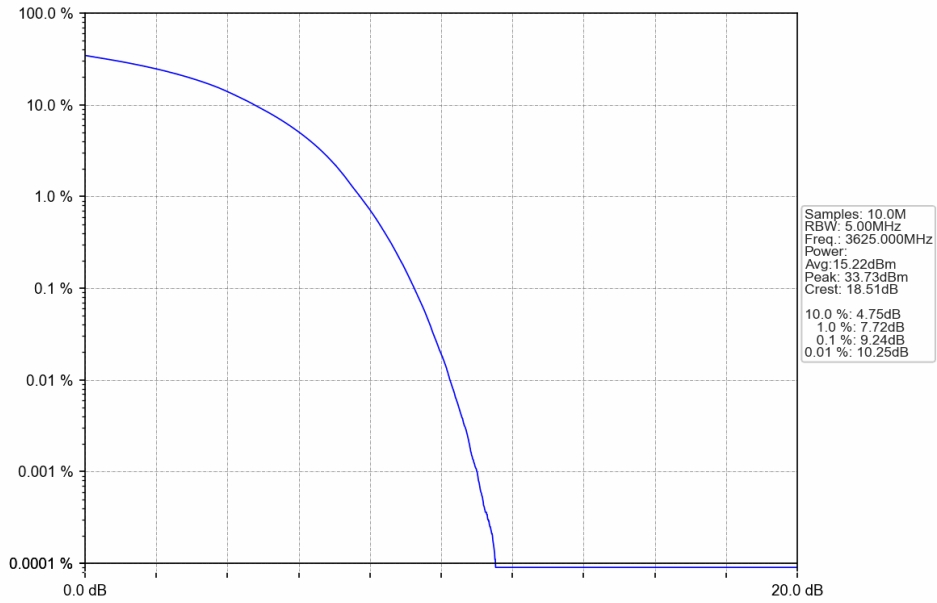
Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



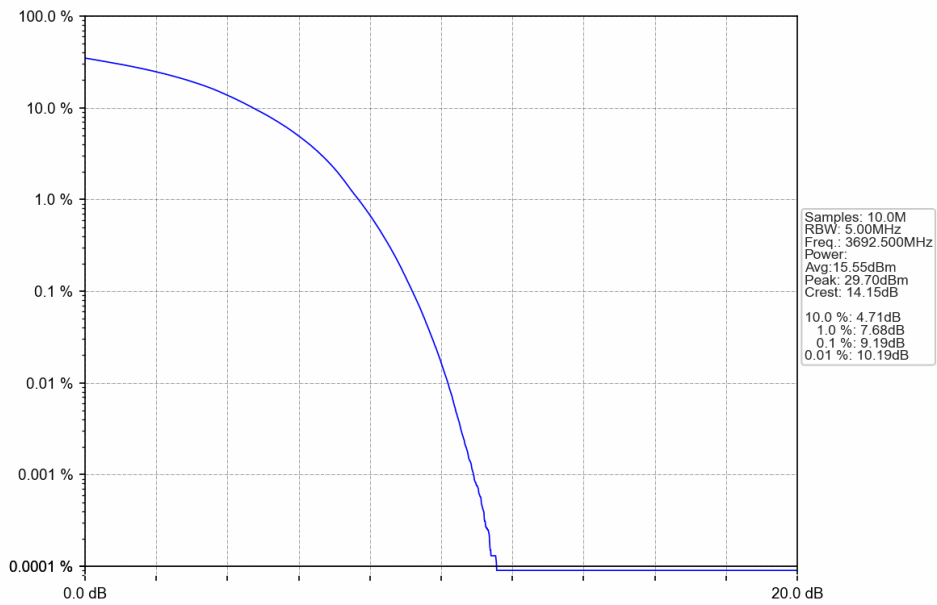
Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV



Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV

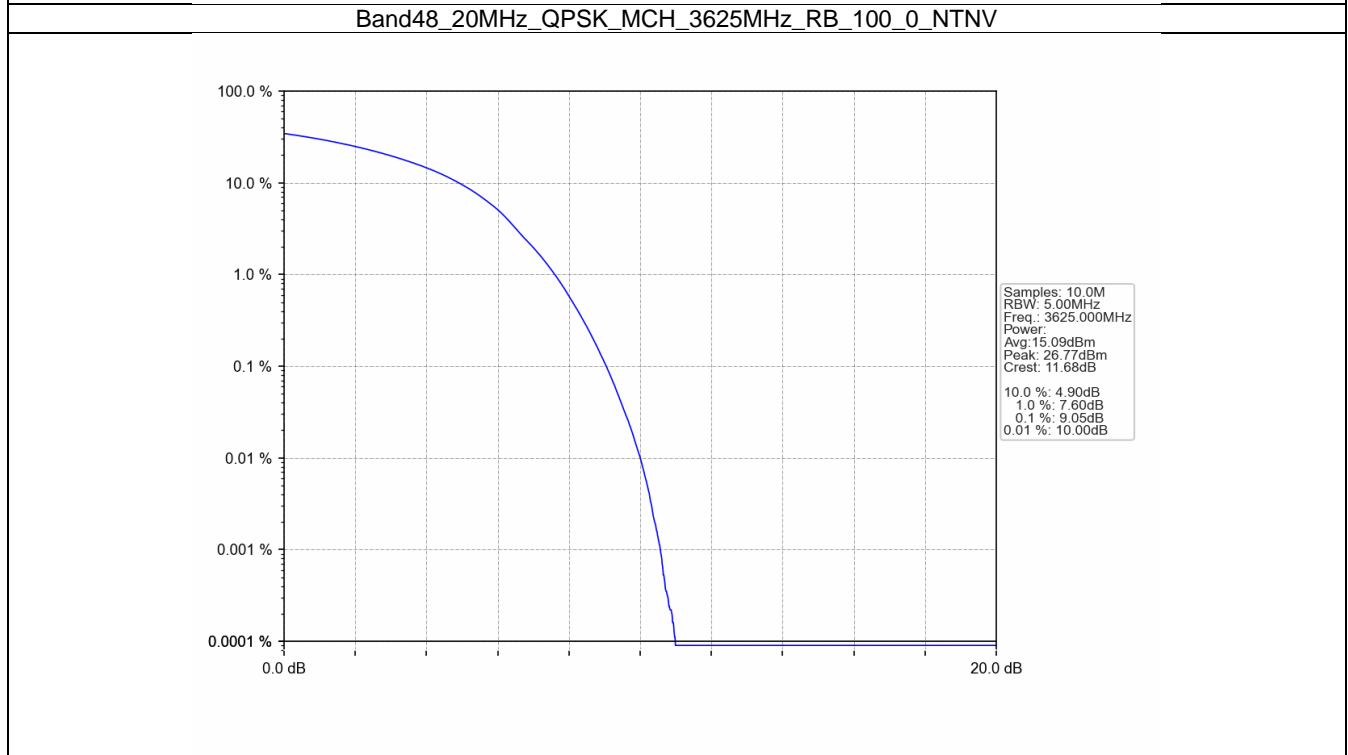
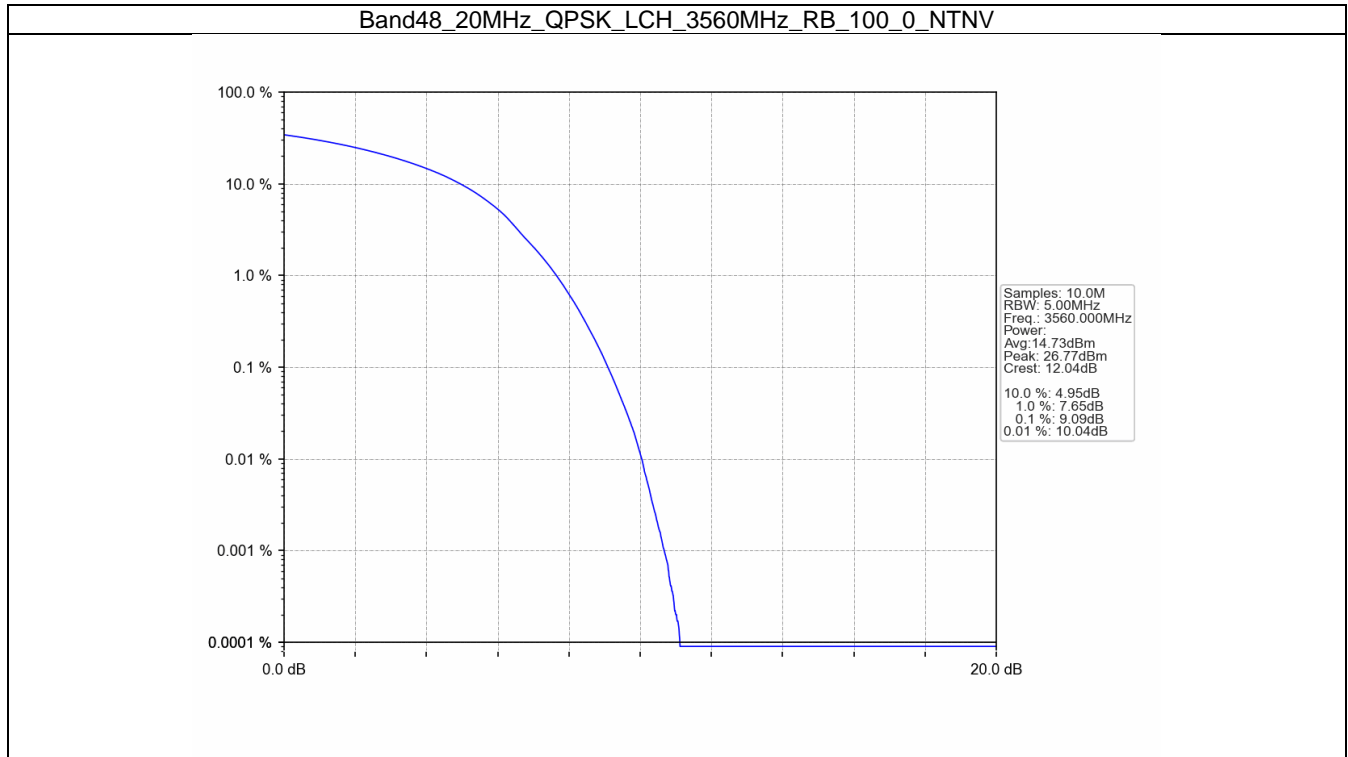


## 1.4 B48\_20MHz

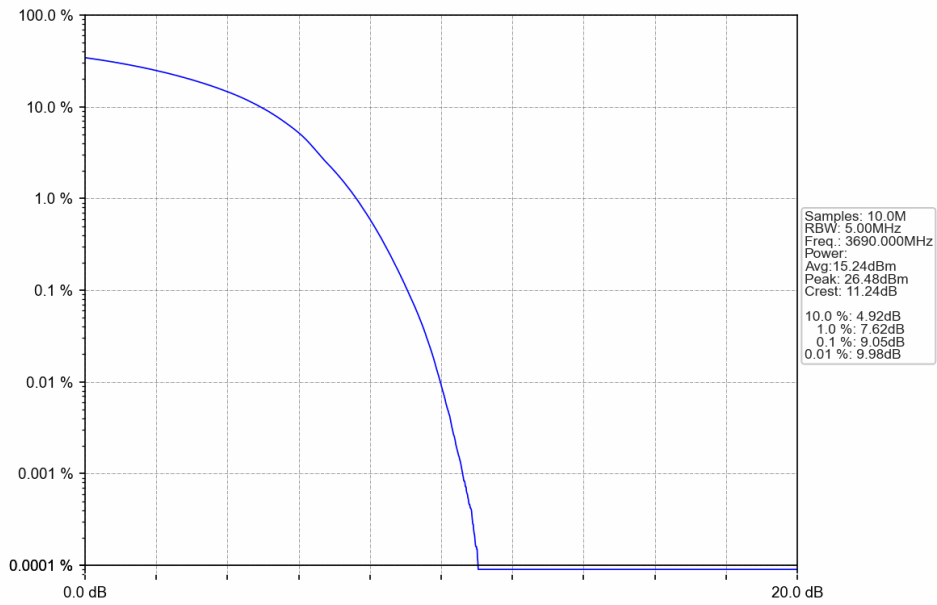
### 1.4.1 Test Result

Band: 48 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	100	0	9.09	<=13	Pass
	3625	100	0	9.05	<=13	Pass
	3690	100	0	9.05	<=13	Pass
16QAM	3560	100	0	9.46	<=13	Pass
	3625	100	0	9.41	<=13	Pass
	3690	100	0	9.58	<=13	Pass

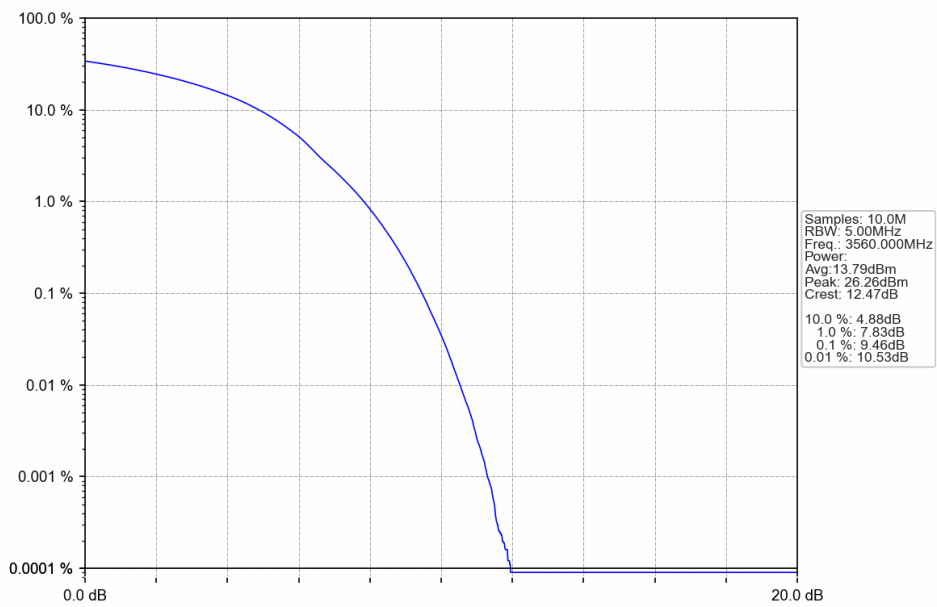
## 1.4.2 Test Graph



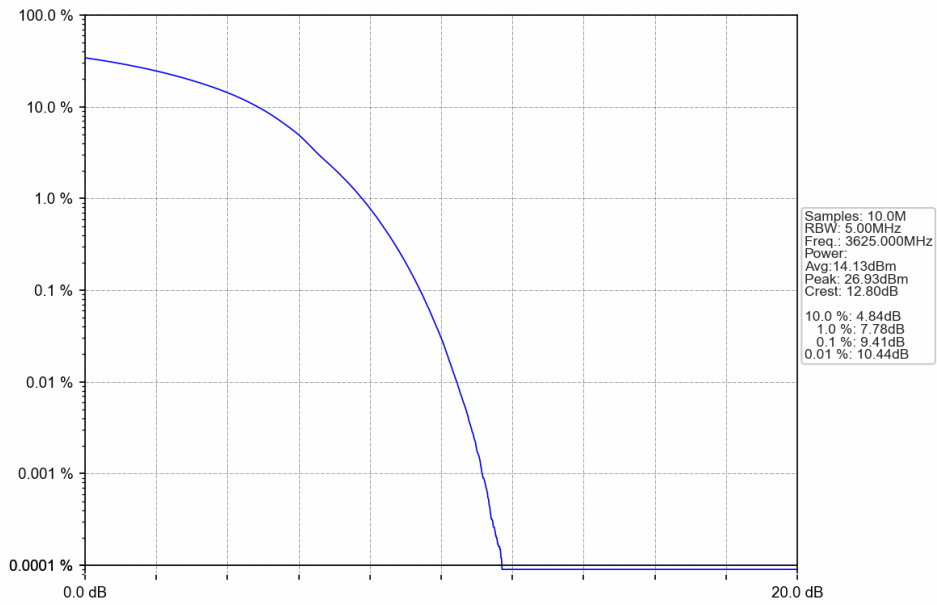
Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



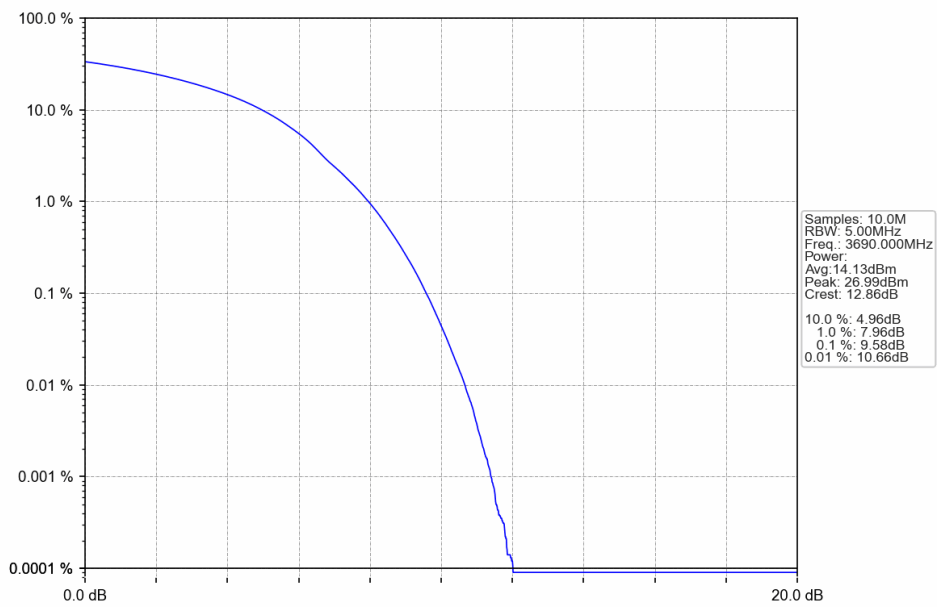
Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV





UL 48C - LTE

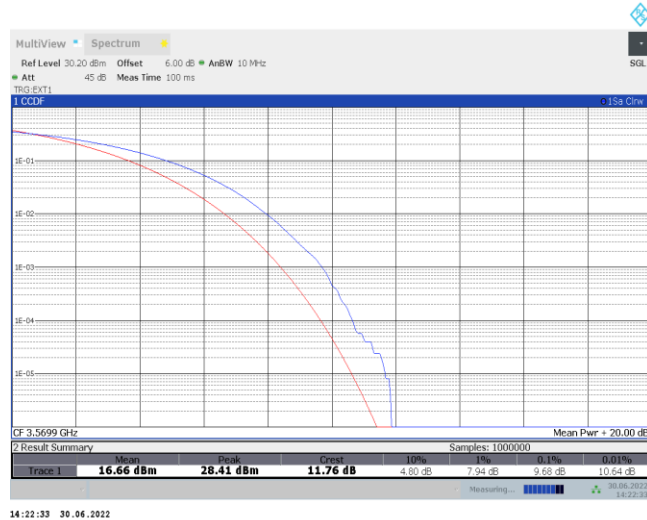
Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	100RB#0-100RB#0	9.68	13	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	100RB#0-100RB#0	9.70	13	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	9.90	13	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	100RB#0-100RB#0	9.80	13	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	100RB#0-100RB#0	9.82	13	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	100RB#0-100RB#0	10.14	13	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	100RB#0-100RB#0	9.82	13	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	100RB#0-100RB#0	9.78	13	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	100RB#0-100RB#0	10.14	13	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	100RB#0-100RB#0	9.90	13	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	100RB#0-100RB#0	9.90	13	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	100RB#0-100RB#0	10.14	13	PASS

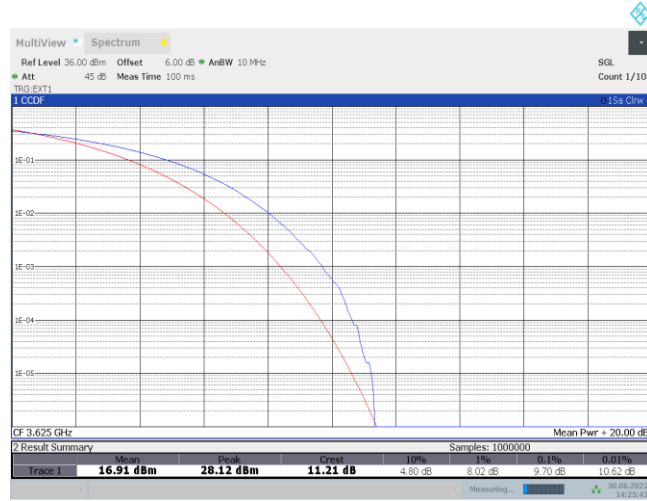
Test Graphs

48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-100RB#0-100RB#0



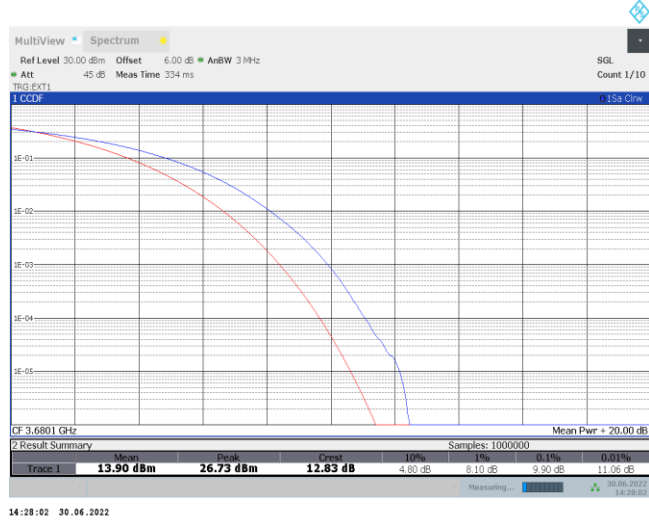
14:22:33 30.06.2022

48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-100RB#0-100RB#0

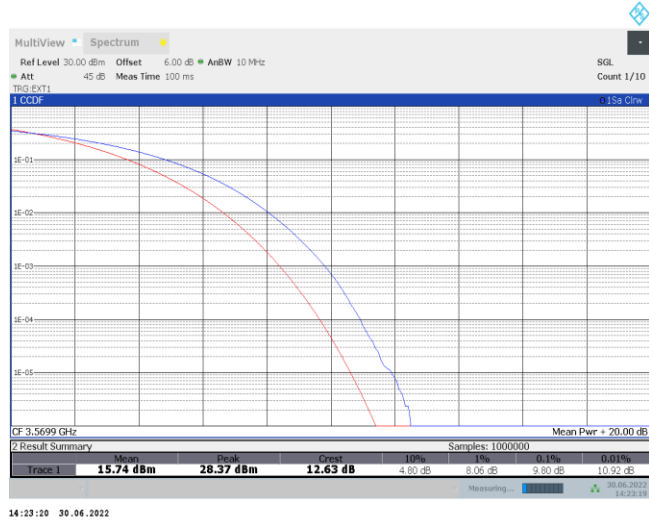


14:25:43 30.06.2022

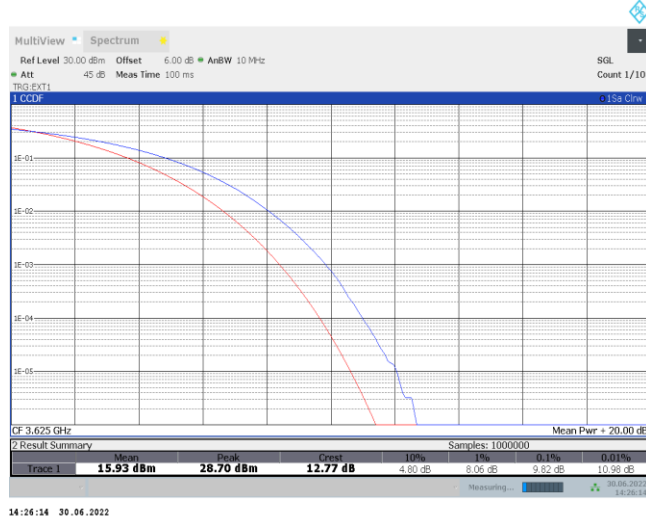
48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-100RB#0-100RB#0



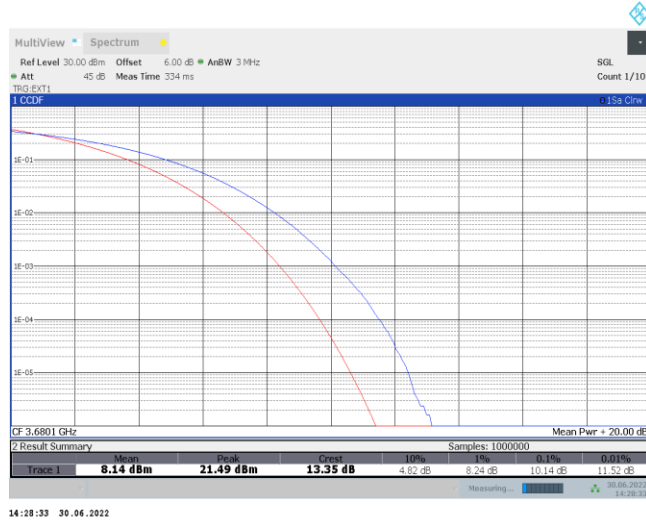
48-48-20MHz-20MHz-16QAM-16QAM-55340-55538-100RB#0-100RB#0



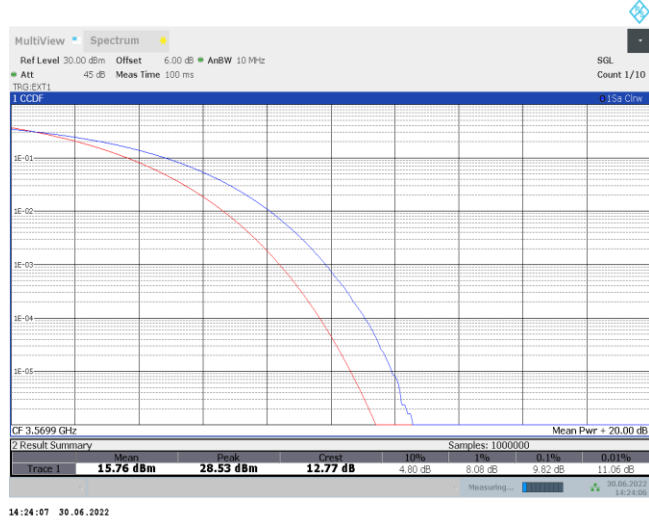
48-48-20MHz-20MHz-16QAM-16QAM-55891-56089-100RB#0-100RB#0



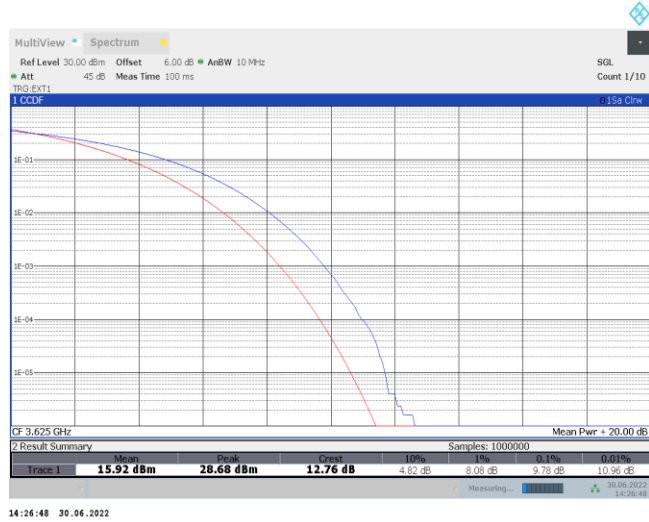
48-48-20MHz-20MHz-16QAM-16QAM-56442-56640-100RB#0-100RB#0



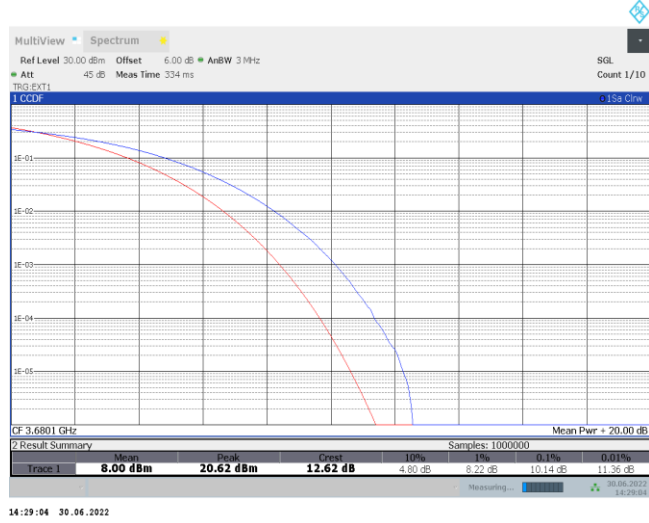
48-48-20MHz-20MHz-64QAM-64QAM-55340-55538-100RB#0-100RB#0



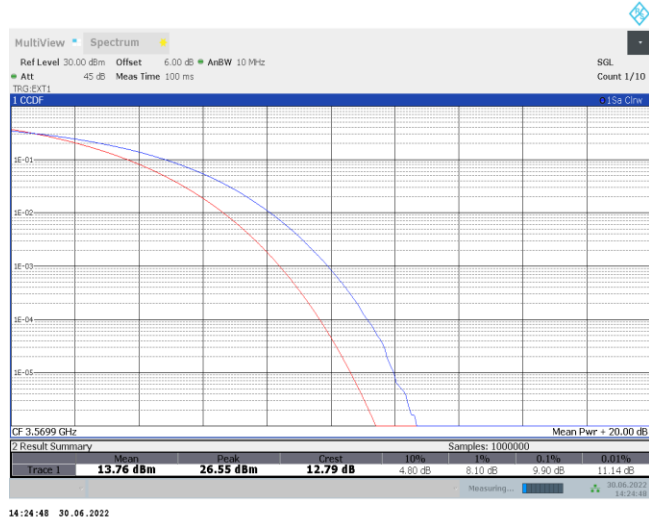
48-48-20MHz-20MHz-64QAM-64QAM-55891-56089-100RB#0-100RB#0



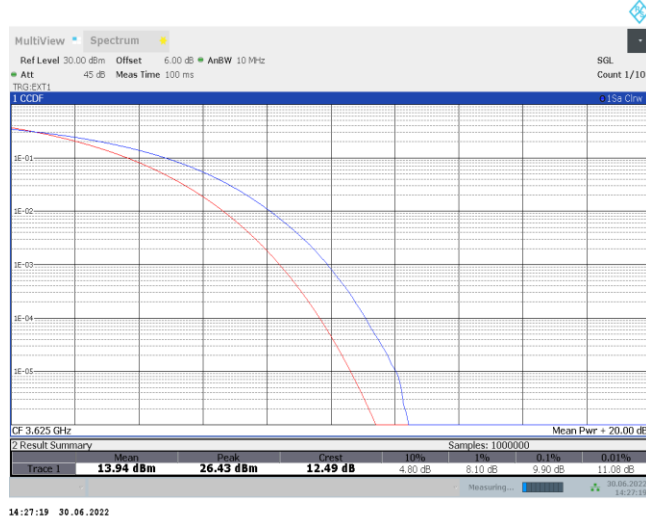
48-48-20MHz-20MHz-64QAM-64QAM-56442-56640-100RB#0-100RB#0



48-48-20MHz-20MHz-256QAM-256QAM-55340-55538-100RB#0-100RB#0



48-48-20MHz-20MHz-256QAM-256QAM-55891-56089-100RB#0-100RB#0



48-48-20MHz-20MHz-256QAM-256QAM-56442-56640-100RB#0-100RB#0

