



晶復科技股份有限公司

A Test Lab Techno Corp.

行動通信電信終端設備技術規範(LTE)試驗報告

報告編號 2108DR13

版本(Rev.) 00

產品名稱 葫蘆機器人/KettyBot

申請廠商 深圳市普渡科技有限公司

廠牌 PUDU

型式 (號) PNT

產品試驗依據之標準 行動通信電信終端設備技術規範 109 年 9 月 25 日

報告發行日期 110 年 08 月 18 日

填發本型式認可報告之試驗機構 (認可代號)

晶復科技股份有限公司
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財團法人全國認證基金會

認證編號 : 1330

認證有效期間 : 108.09.06 ~ 111.09.05

認可能量範圍 : LTE 700 MHz 頻段/ 900 MHz 頻段/ 1800 MHz 頻段/ 2100 MHz 頻段/
2500 MHz 頻段/ 2600 MHz 頻段(頻率範圍:9 kHz to 40 GHz)

免責聲明

- 1.本測試報告所敘述之測試結果，僅對顧客所提供之測試樣品，在此測試報告所述及之測試條件下，所實施之量測有效。
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報告修訂紀錄

版本 (Rev.)	發行日期	修訂內容	修訂者
00	110 年 08 月 18 日	初版發行	趙翊如

行動通信電信終端設備技術規範(LTE)測試證明書

產品名稱：葫蘆機器人/KettyBot

廠牌：PUDU

型號：PNT

申請廠商：深圳市普渡科技有限公司

申請者地址：深圳市南山區西麗街道西麗社區打石一路深圳國際創新穀 1 棟 A 座 501

製造廠商：深圳市普渡科技有限公司

製造商地址：深圳市南山區西麗街道西麗社區打石一路深圳國際創新穀 1 棟 A 座 501

待測物電壓：DC 25.5 V, 1 A

量測規範：行動通信電信終端設備技術規範 109 年 9 月 25 日

試驗實驗室：晶復科技股份有限公司(桃園市八德區長安街 140-1 號)

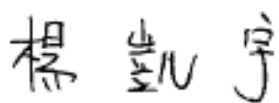
樣品接收日期：110 年 07 月 22 日

試驗日期：110 年 07 月 23 日 ~ 110 年 08 月 13 日

報告中所描述之測試結果與待測設備之架構組合，均根據實際量測情況作詳實的記錄。由測試結果顯示，上述待測設備樣機確實已符合行動通信電信終端設備技術規範(LTE)所規定的各項限制值。

特此證明！

審核者：



(楊 凱 宇)

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1. 一般敘述

1.1 待測設備一般敘述

本敘述僅針對產品簡單說明之，其他詳細之規格請參考使用說明書。

產 品 名 稱	葫蘆機器人/KettyBot			
廠 牌	PUDU			
型 號	PNT			
額 定 電 源	DC 25.5 V, 1 A			
I M E I N o .	862195052411258			
使 用 頻 帶	LTE Band 1 FDD: UL: 1920 – 1980 MHz / DL: 2110 – 2170 MHz LTE Band 3 FDD: UL: 1710 – 1785 MHz / DL: 1805 – 1880 MHz LTE Band 7 FDD: UL: 2500 – 2570 MHz / DL: 2620 – 2690 MHz LTE Band 8 FDD: UL: 885 – 915 MHz / DL: 930 – 960 MHz LTE Band 28 FDD: UL: 703 – 748 MHz / DL: 758 – 803 MHz LTE Band 38 TDD: 2570 – 2620 MHz LTE Band 41 TDD: 2500 – 2690 MHz			
使 用 頻 寬	LTE Band 1: 5 MHz / 10 MHz / 15 MHz / 20 MHz LTE Band 3: 1.4 MHz / 3 MHz / 5 MHz / 10 MHz / 15 MHz / 20 MHz LTE Band 7: 5 MHz / 10 MHz / 15 MHz / 20 MHz LTE Band 8: 1.4 MHz / 3 MHz / 5 MHz / 10 MHz LTE Band 28: 3 MHz / 5 MHz / 10 MHz / 15 MHz / 20 MHz LTE Band 38: 5 MHz / 10 MHz / 15 MHz / 20 MHz LTE Band 41: 5 MHz / 10 MHz / 15 MHz / 20 MHz			
天 線 資 訊	廠 牌	型 號	型 態	增 益 值
	WWXL	WWXL6007761	Built-in Antenna	LTE Band 1: 2.88 dBi LTE Band 3: 2.84 dBi LTE Band 7: 2.26 dBi LTE Band 8: 1.69 dBi LTE Band 28: 1.46 dBi LTE Band 38: 1.41 dBi LTE Band 41: 2.84 dBi
最 大 輸 出 功 率	LTE Band 1: 23.36 dBm			
	LTE Band 3: 23.66 dBm			
	LTE Band 7: 23.37 dBm			
	LTE Band 8: 23.65 dBm			
	LTE Band 28: 23.49 dBm			
	LTE Band 38: 23.68 dBm			
	LTE Band 41: 23.44 dBm			

輸出/輸入埠說明：

輸 出 / 入 埠		數量	介面內容說明
1	POWER Port	1	連接至電源供應器/ Debug 用
2	LAN Port	1	連接至 AP
3	USB Port	1	升級用，一般消費者無法使用
4	USB Port	1	升級用，一般消費者無法使用

附屬裝置表：

裝置名稱	廠牌	型 號	備註
內建固定式電池	XINYU GANFENG ELECTRONICS CO., LTD	7S8P SDI 18650 32E	DC 25.55 V, 25.6 Ah,
電源供應器	pudu	FY29008000	INPUT : 100-240 VAC, 50/60 Hz, 3 A OUTPUT : DC 29 V, 8 A Cable in : Non-Shielded, 1.1 m Cable out : Non-Shielded, 0.88 m

1.2 其他相關聲明

本測試報告屬(以下選擇一種打■)

☒	申請新的型式檢驗認可的測試。
☐	已取得型式檢驗認可之商品,因設計變更而重新測試 (變更內容請參考產品概述). 登錄號碼: XXXXXXXX

2. 量測儀器及測試配置說明

2.1 量測設備

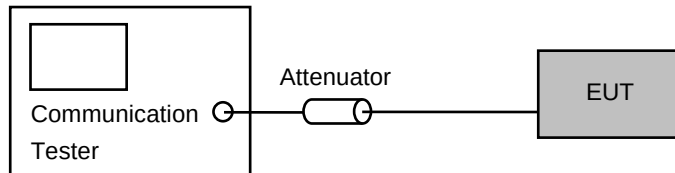
Test Period: Jul. 23 ~ Aug. 13, 2021

測試者：歐陽良相, 吳展寬, 申世傑

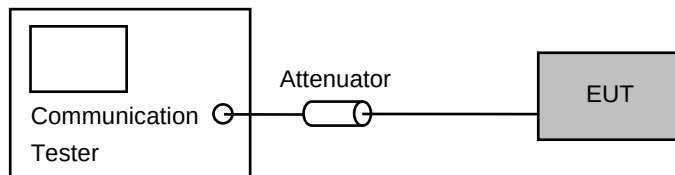
名 稱	廠 牌	型 號	序 號	本次校驗日期	校驗年限
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	03/30/2021	1 year
Divider	Warison	WDIV-210.5-26.5S20	WR222AM2B2	11/02/2020	1 year
直流電源供應器	GW	SPD-3606	GEP891818	11/24/2020	1 year
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/02/2020	1 year
Radio Communication Analyzer	Anritsu	MT8820C	6201342039	12/03/2020	1 year

2.2 測試架構圖

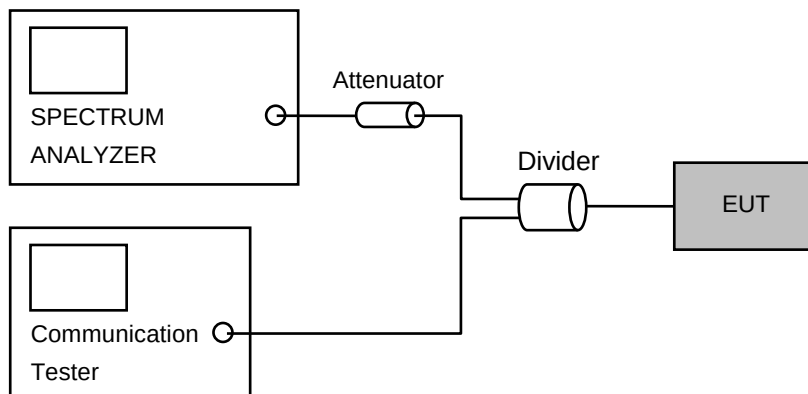
■ 輸出功率



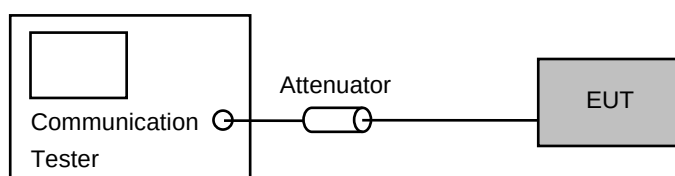
■ 發射頻譜波罩



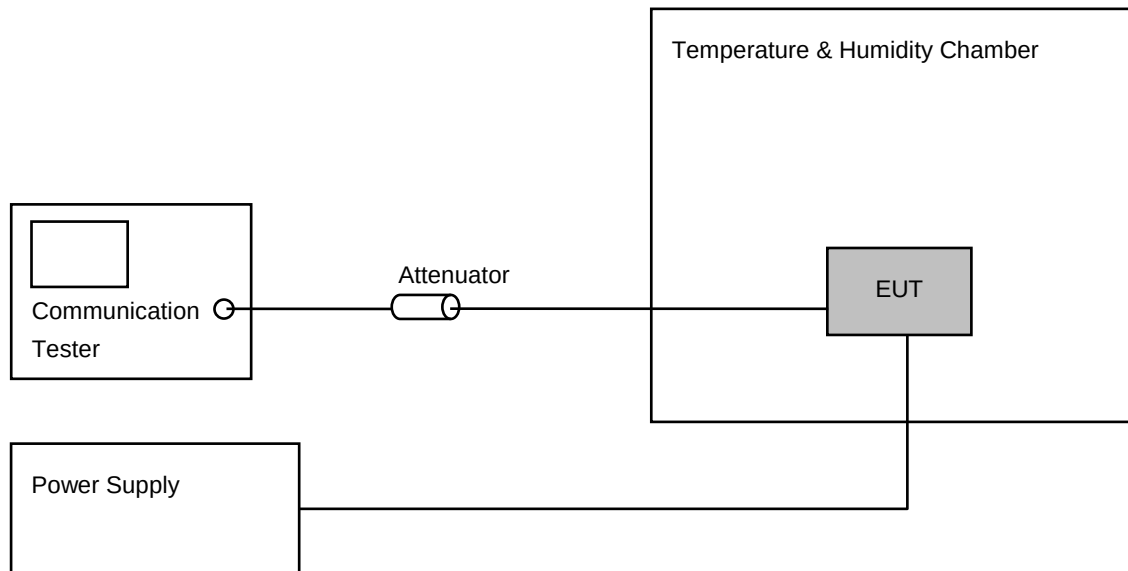
■ 傳導帶外輻射發射



■ 相鄰頻道洩漏功率比



■ 頻率穩定性



2.3 量測不確定度

下列量測不確定水準是參照量測儀器 CISPR 16-4-2 所規定之不確定度。

Test Item	Uncertainty (dB)
傳導輸出功率 (傳導)	1.1 dB
發射頻譜波罩 (傳導)	1.1 dB
傳導帶外輻射發射(傳導)	2.5 dB
ACLR (傳導)	1.1 dB
頻率穩定度 (頻率)	$1.2 \times 10^{-7} * F_c \text{ (Hz)}$
電波功率密度量測 (傳導)	1.1 dB

2.4 試驗環境

產品測試時之實驗室環境條件如下:

項 目	實 際	常態環境要求
溫度 Temperature (°C)	18 - 28	15 - 35
濕度 Humidity (%RH)	45 - 75	25 - 75

電池種類及電壓的計算
☐ AC mains V_{Nom} = 標稱電壓 V_{Low} = 標稱電壓 * 0.9 V_{High} = 標稱電壓 * 1.1 ☐ Regulated lead acid battery V_{Nom} = 標稱電壓 * 1.1 V_{Low} = 標稱電壓 * 0.9 V_{High} = 標稱電壓 * 1.3 Non regulated batteries : ☐ Leclanche V_{Nom} = 標稱電壓 V_{Low} = 標稱電壓 * 0.85 V_{High} = 標稱電壓 ☒ Lithium V_{Nom} = 標稱電壓 * 1.1 V_{Low} = 標稱電壓 * 0.95 V_{High} = 標稱電壓 * 1.1 ☐ Mercury/nickel & cadmium V_{Nom} = 標稱電壓 V_{Low} = 標稱電壓 * 0.9 V_{High} = 標稱電壓 * 1.1

測試條件			
工作電壓 DC(範圍) :	標稱電壓	25.55	V
	低極端電壓	24.27	V
	關機電壓	18.1	V
	常態電壓	28.11	V
	高極端電壓	28.11	V
測試溫度(範圍) :	低極端溫度	-10	(°C)
	常態溫度	20	(°C)
	高極端溫度	55	(°C)

3. 測試項目與結果判定總表

項次	檢驗項目	適用標準	試驗結果	結果判定
1	有效輻射功率	行動通信電信終端設備技術規範, 6.3.1.1.1節	請參閱第4節	符合
2	傳導輸出功率	行動通信電信終端設備技術規範, 6.3.1.1.2節	請參閱第4節	符合
3	發射頻譜波罩	行動通信電信終端設備技術規範, 6.3.2節	請參閱第4節	符合
4	傳導帶外輻射發射	行動通信電信終端設備技術規範, 6.3.3節	請參閱第4節	符合
5	ACLR	行動通信電信終端設備技術規範, 6.3.4節	請參閱第4節	符合
6	頻率穩定度	行動通信電信終端設備技術規範, 6.3.5節	請參閱第4節	符合
7	電波功率密度	行動通信電信終端設備技術規範, 6.6.2節	請參閱第4節	符合
8	災防告警細胞廣播訊息接收功能	行動通信電信終端設備技術規範, 6.10節	請參閱第4節	不適用 (Note)

Note: 此產品為特殊商業用途，不會販售給一般消費者，得不需評估災防告警細胞廣播訊息接收功能。

Decision Rule

- ☒ Uncertainty is not included.
- ☐ Uncertainty is included.

4. 檢驗紀錄

測試頻段對應之頻道及頻寬一覽表

Band	頻道	Bandwidth (MHz)	Frequency (MHz)	Modulation	# of Resource Blocks	Resource Block Offset	
LTE Band 3	低頻道	1.4	1710.7	QPSK	1	0	
					1	5	
					5	0	
					5	1	
	中頻道		1747.5		1	0	
					1	5	
					5	0	
					5	1	
	高頻道		1784.3		1	0	
					1	5	
					5	0	
					5	1	
	低頻道	5	1712.5	QPSK	1	0	
					1	24	
					8	0	
					8	17	
			中頻道		1747.5	1	0
						1	24
						8	0
						8	17
			高頻道		1782.5	1	0
						1	24
						8	0
						8	17
	低頻道	20	1720.0	QPSK	1	0	
					1	99	
					18	0	
					18	82	
			中頻道		1747.5	1	0
						1	99
						18	0
						18	82
			高頻道		1775.0	1	0
						1	99
						18	0
						18	82

Band	頻道	Bandwidth (MHz)	Frequency (MHz)	Modulation	# of Resource Blocks	Resource Block Offset	
LTE Band 8	低頻道	1.4	885.7	QPSK	1	0	
					1	5	
					5	0	
					5	1	
	中頻道		900.0		1	0	
					1	5	
					5	0	
					5	1	
	高頻道		914.3		1	0	
					1	5	
					5	0	
					5	1	
	低頻道	5	887.5	QPSK	1	0	
					1	24	
					8	0	
					8	17	
			中頻道		900.0	1	0
						1	24
						8	0
						8	17
			高頻道		912.5	1	0
						1	24
						8	0
						8	17
	低頻道	10	890.0	QPSK	1	0	
					1	49	
					12	0	
					12	38	
			中頻道		900.0	1	0
						1	49
						12	0
						12	38
			高頻道		910.0	1	0
						1	49
						12	0
						12	38

Band	頻道	Bandwidth (MHz)	Frequency (MHz)	Modulation	# of Resource Blocks	Resource Block Offset	
LTE Band 28	低頻道	3	704.5	QPSK	1	0	
					1	14	
					4	0	
					4	11	
	中頻道		725.5		1	0	
					1	14	
					4	0	
					4	11	
	高頻道		746.5		1	0	
					1	14	
					4	0	
					4	11	
	低頻道	5	705.5	QPSK	1	0	
					1	24	
					8	0	
					8	17	
			中頻道		725.5	1	0
						1	24
						8	0
						8	17
			高頻道		745.5	1	0
						1	24
						8	0
						8	17
	低頻道	20	713.0	QPSK	1	0	
					1	99	
					18	0	
					18	82	
			中頻道		725.5	1	0
						1	99
						18	0
						18	82
			高頻道		738.0	1	0
						1	99
						18	0
						18	82

Band	頻道	Bandwidth (MHz)	Frequency (MHz)	Modulation	# of Resource Blocks	Resource Block Offset	
LTE Band 7	低頻道	5	2502.5	QPSK	1	0	
					1	24	
					8	0	
					8	17	
	中頻道		2535.0		1	0	
					1	24	
					8	0	
					8	17	
	高頻道		2567.5		1	0	
					1	24	
					8	0	
					8	17	
	低頻道	20	2510.0	QPSK	1	0	
					1	99	
					18	0	
					18	82	
			中頻道		2535.0	1	0
						1	99
						18	0
						18	82
			高頻道		2560.0	1	0
						1	99
						18	0
						18	82

Band	頻道	Bandwidth (MHz)	Frequency (MHz)	Modulation	# of Resource Blocks	Resource Block Offset
LTE Band 38	低頻道	5	2572.5	QPSK	1	0
					1	24
					8	0
					8	17
	中頻道		2595.0		1	0
					1	24
					8	0
					8	17
	高頻道		2617.5		1	0
					1	24
					8	0
					8	17
	低頻道	20	2580.0	QPSK	1	0
					1	99
					18	0
					18	82
	中頻道		2595.0		1	0
					1	99
					18	0
					18	82
	高頻道		2610.0		1	0
					1	99
					18	0
					18	82

Band	頻道	Bandwidth (MHz)	Frequency (MHz)	Modulation	# of Resource Blocks	Resource Block Offset	
LTE Band 41	低頻道	5	2502.5	QPSK	1	0	
					1	24	
					8	0	
					8	17	
	中頻道		2595.0		1	0	
					1	24	
					8	0	
					8	17	
	高頻道		2687.5		1	0	
					1	24	
					8	0	
					8	17	
	低頻道	20	2510.0	QPSK	1	0	
					1	99	
					18	0	
					18	82	
			中頻道		2595.0	1	0
						1	99
						18	0
						18	82
			高頻道		2680.0	1	0
						1	99
						18	0
						18	82

Band	頻道	Bandwidth (MHz)	Frequency (MHz)	Modulation	# of Resource Blocks	Resource Block Offset	
LTE Band 1	低頻道	5	1922.5	QPSK	1	0	
					1	24	
					8	0	
					8	17	
	中頻道		1950.0		1	0	
					1	24	
					8	0	
					8	17	
	高頻道		1977.5		1	0	
					1	24	
					8	0	
					8	17	
	低頻道	20	1930.0	QPSK	1	0	
					1	99	
					18	0	
					18	82	
			中頻道		1950.0	1	0
						1	99
						18	0
						18	82
			高頻道		1970.0	1	0
						1	99
						18	0
						18	82

4.1 測試項目總表

項次	檢驗項目及標準值	工作頻段	工作頻寬	檢測頻道	檢驗結果	判定
1	有效輻射功率(ERP) ☐ 攜帶式終端設備限制為 1 W。 ☒ 移動式終端設備限制為 2 W。	LTE Band 3	1.4 MHz	低頻道	0.256 W	符合
				中頻道	0.261 W	
				高頻道	0.263 W	
			5 MHz	低頻道	0.256 W	
				中頻道	0.253 W	
				高頻道	0.261 W	
			20 MHz	低頻道	0.258 W	
				中頻道	0.270 W	
				高頻道	0.272 W	
		LTE Band 8	1.4 MHz	低頻道	0.187 W	
				中頻道	0.186 W	
				高頻道	0.201 W	
			5 MHz	低頻道	0.191 W	
				中頻道	0.190 W	
				高頻道	0.203 W	
			10 MHz	低頻道	0.185 W	
				中頻道	0.189 W	
				高頻道	0.208 W	
		LTE Band 28	3 MHz	低頻道	0.189 W	
				中頻道	0.180 W	
				高頻道	0.181 W	
			5 MHz	低頻道	0.191 W	
				中頻道	0.179 W	
				高頻道	0.178 W	
			20 MHz	低頻道	0.180 W	
				中頻道	0.187 W	
				高頻道	0.177 W	

項次	檢驗項目及標準值	工作頻段	工作頻寬	檢測頻道	檢驗結果	判定
1	有效輻射功率(ERP) ☐ 攜帶式終端設備限制為 1 W。 ☒ 移動式終端設備限制為 2 W。	LTE Band 7	5 MHz	低頻道	0.207 W	符合
				中頻道	0.194 W	
				高頻道	0.223 W	
			20 MHz	低頻道	0.202 W	
				中頻道	0.205 W	
				高頻道	0.222 W	
		LTE Band 38	5 MHz	低頻道	0.197 W	
				中頻道	0.183 W	
				高頻道	0.169 W	
			20 MHz	低頻道	0.193 W	
				中頻道	0.185 W	
				高頻道	0.171 W	
		LTE Band 41	5 MHz	低頻道	0.251 W	
				中頻道	0.245 W	
				高頻道	0.258 W	
			20 MHz	低頻道	0.259 W	
				中頻道	0.242 W	
				高頻道	0.258 W	
		LTE Band 1	5 MHz	低頻道	0.245 W	
				中頻道	0.254 W	
				高頻道	0.238 W	
			20 MHz	低頻道	0.249 W	
				中頻道	0.256 W	
				高頻道	0.250 W	

項次	檢 驗 項 目 及 標 準 值	判 定
2	傳導輸出功率 限制值: FDD: 23(dBm) +2.7/-3.2(dB); TDD: 23(dBm) +2.7/-2.7(dB)	符 合

LTE Band 3						
Channel	Frequency (MHz)	Bandwidth	Modulation	# of Resource Blocks	Resource Block Offset	Max. Average Power (dBm)
19207	1710.7	1.4 MHz	QPSK	1	0	23.20
19207	1710.7			1	5	23.27
19207	1710.7			5	0	23.39
19207	1710.7			5	1	23.37
19575	1747.5			1	0	23.28
19575	1747.5			1	5	23.29
19575	1747.5			5	0	23.38
19575	1747.5			5	1	23.47
19943	1784.3			1	0	23.21
19943	1784.3			1	5	23.13
19943	1784.3			5	0	23.51
19943	1784.3			5	1	23.51
19225	1712.5	5 MHz	QPSK	1	0	23.20
19225	1712.5			1	24	23.28
19225	1712.5			8	0	23.34
19225	1712.5			8	17	23.39
19575	1747.5			1	0	23.14
19575	1747.5			1	24	23.28
19575	1747.5			8	0	23.34
19575	1747.5			8	17	23.33
19925	1782.5			1	0	23.29
19925	1782.5			1	24	23.44
19925	1782.5			8	0	23.44
19925	1782.5			8	17	23.48
19300	1720.0	20 MHz	QPSK	1	0	23.29
19300	1720.0			1	99	23.26
19300	1720.0			18	0	23.42
19300	1720.0			18	82	23.30
19575	1747.5			1	0	23.46
19575	1747.5			1	99	23.62
19575	1747.5			18	0	23.48
19575	1747.5			18	82	23.54
19850	1775.0			1	0	23.30
19850	1775.0			1	99	23.35
19850	1775.0			18	0	23.66
19850	1775.0			18	82	23.45

LTE Band 8						
Channel	Frequency (MHz)	Bandwidth	Modulation	# of Resource Blocks	Resource Block Offset	Max. Average Power (dBm)
21507	885.7	1.4 MHz	QPSK	1	0	23.07
21507	885.7			1	5	23.14
21507	885.7			5	0	23.17
21507	885.7			5	1	23.16
21650	900.0			1	0	23.01
21650	900.0			1	5	22.90
21650	900.0			5	0	23.15
21650	900.0			5	1	23.11
21793	914.3			1	0	23.33
21793	914.3			1	5	23.26
21793	914.3			5	0	23.49
21793	914.3			5	1	23.46
21525	887.5	5 MHz	QPSK	1	0	23.00
21525	887.5			1	24	23.13
21525	887.5			8	0	23.07
21525	887.5			8	17	23.27
21650	900.0			1	0	23.15
21650	900.0			1	24	23.12
21650	900.0			8	0	23.25
21650	900.0			8	17	23.20
21775	912.5			1	0	23.03
21775	912.5			1	24	23.46
21775	912.5			8	0	23.42
21775	912.5			8	17	23.53
21550	890.0	10 MHz	QPSK	1	0	22.95
21550	890.0			1	49	22.97
21550	890.0			12	0	23.11
21550	890.0			12	38	23.12
21650	900.0			1	0	23.04
21650	900.0			1	49	23.15
21650	900.0			12	0	23.20
21650	900.0			12	38	23.22
21750	910.0			1	0	23.20
21750	910.0			1	49	23.40
21750	910.0			12	0	23.37
21750	910.0			12	38	23.65

LTE Band 28						
Channel	Frequency (MHz)	Bandwidth	Modulation	# of Resource Blocks	Resource Block Offset	Max. Average Power (dBm)
27225	704.5	3 MHz	QPSK	1	0	23.43
27225	704.5			1	14	23.45
27225	704.5			4	0	23.37
27225	704.5			4	11	23.45
27435	725.5			1	0	23.09
27435	725.5			1	14	23.16
27435	725.5			4	0	23.20
27435	725.5			4	11	23.25
27645	746.5			1	0	23.16
27645	746.5			1	14	23.08
27645	746.5			4	0	23.27
27645	746.5			4	11	23.05
27235	705.5	5 MHz	QPSK	1	0	23.43
27235	705.5			1	24	23.03
27235	705.5			8	0	23.49
27235	705.5			8	17	23.41
27435	725.5			1	0	22.87
27435	725.5			1	24	23.10
27435	725.5			8	0	23.16
27435	725.5			8	17	23.23
27635	745.5			1	0	22.87
27635	745.5			1	24	22.89
27635	745.5			8	0	23.19
27635	745.5			8	17	23.10
27310	713.0	20 MHz	QPSK	1	0	23.11
27310	713.0			1	99	23.17
27310	713.0			18	0	23.21
27310	713.0			18	82	23.25
27435	725.5			1	0	23.09
27435	725.5			1	99	23.37
27435	725.5			18	0	23.22
27435	725.5			18	82	23.42
27560	738.0			1	0	23.00
27560	738.0			1	99	23.15
27560	738.0			18	0	23.17
27560	738.0			18	82	23.18

LTE Band 7						
Channel	Frequency (MHz)	Bandwidth	Modulation	# of Resource Blocks	Resource Block Offset	Max. Average Power (dBm)
20775	2502.5	5 MHz	QPSK	1	0	22.89
20775	2502.5			1	24	22.93
20775	2502.5			8	0	23.05
20775	2502.5			8	17	22.98
21100	2535.0			1	0	22.45
21100	2535.0			1	24	22.49
21100	2535.0			8	0	22.64
21100	2535.0			8	17	22.77
21425	2567.5			1	0	23.05
21425	2567.5			1	24	22.42
21425	2567.5			8	0	23.37
21425	2567.5			8	17	22.56
20850	2510.0	20 MHz	QPSK	1	0	22.91
20850	2510.0			1	99	22.63
20850	2510.0			18	0	22.95
20850	2510.0			18	82	22.81
21100	2535.0			1	0	22.32
21100	2535.0			1	99	22.95
21100	2535.0			18	0	22.71
21100	2535.0			18	82	23.01
21350	2560.0			1	0	22.89
21350	2560.0			1	99	22.04
21350	2560.0			18	0	23.35
21350	2560.0			18	82	22.69

LTE Band 38						
Channel	Frequency (MHz)	Bandwidth	Modulation	# of Resource Blocks	Resource Block Offset	Max. Average Power (dBm)
37775	2572.5	5 MHz	QPSK	1	0	23.53
37775	2572.5			1	24	23.59
37775	2572.5			8	0	23.59
37775	2572.5			8	17	23.68
38000	2595.0			1	0	23.19
38000	2595.0			1	24	23.17
38000	2595.0			8	0	23.36
38000	2595.0			8	17	23.23
38225	2617.5			1	0	22.92
38225	2617.5			1	24	23.01
38225	2617.5			8	0	23.00
38225	2617.5			8	17	23.02
37850	2580.0	20 MHz	QPSK	1	0	23.44
37850	2580.0			1	99	23.37
37850	2580.0			18	0	23.59
37850	2580.0			18	82	23.44
38000	2595.0			1	0	23.35
38000	2595.0			1	99	23.00
38000	2595.0			18	0	23.42
38000	2595.0			18	82	23.04
38150	2610.0			1	0	23.07
38150	2610.0			1	99	22.89
38150	2610.0			18	0	23.08
38150	2610.0			18	82	23.04

LTE Band 41						
Channel	Frequency (MHz)	Bandwidth	Modulation	# of Resource Blocks	Resource Block Offset	Max. Average Power (dBm)
39715	2502.5	5 MHz	QPSK	1	0	23.08
39715	2502.5			1	24	23.15
39715	2502.5			8	0	23.20
39715	2502.5			8	17	23.30
40640	2595.0			1	0	23.09
40640	2595.0			1	24	23.03
40640	2595.0			8	0	23.21
40640	2595.0			8	17	23.05
41565	2687.5			1	0	23.22
41565	2687.5			1	24	23.32
41565	2687.5			8	0	23.43
41565	2687.5			8	17	23.29
39790	2510.0	20 MHz	QPSK	1	0	23.44
39790	2510.0			1	99	23.22
39790	2510.0			18	0	23.43
39790	2510.0			18	82	23.37
40640	2595.0			1	0	23.02
40640	2595.0			1	99	23.10
40640	2595.0			18	0	23.05
40640	2595.0			18	82	23.14
41490	2680.0			1	0	23.31
41490	2680.0			1	99	23.07
41490	2680.0			18	0	23.42
41490	2680.0			18	82	23.16

LTE Band 1						
Channel	Frequency (MHz)	Bandwidth	Modulation	# of Resource Blocks	Resource Block Offset	Max. Average Power (dBm)
18025	1922.5	5 MHz	QPSK	1	0	23.00
18025	1922.5			1	24	22.97
18025	1922.5			8	0	23.17
18025	1922.5			8	17	23.07
18300	1950.0			1	0	23.10
18300	1950.0			1	24	23.31
18300	1950.0			8	0	23.29
18300	1950.0			8	17	23.32
18575	1977.5			1	0	22.91
18575	1977.5			1	24	22.94
18575	1977.5			8	0	23.03
18575	1977.5			8	17	23.02
18100	1930.0	20 MHz	QPSK	1	0	23.17
18100	1930.0			1	99	23.20
18100	1930.0			18	0	23.20
18100	1930.0			18	82	23.23
18300	1950.0			1	0	23.04
18300	1950.0			1	99	23.36
18300	1950.0			18	0	23.27
18300	1950.0			18	82	23.28
18500	1970.0			1	0	23.14
18500	1970.0			1	99	23.00
18500	1970.0			18	0	23.25
18500	1970.0			18	82	23.06

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定
3	發射頻譜波罩 符合[行動通信電信 終端設備技術規範] 附表 47	LTE Band 3		13	BW= 10 MHz	50	Low	QPSK	Low	請參考測試 章節 4.2.1		符合	
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Low	請參考測試 章節 4.2.1												
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Low	請參考測試 章節 4.2.1												
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Low	請參考測試 章節 4.2.1												
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Low	請參考測試 章節 4.2.1												
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Low	請參考測試 章節 4.2.1												
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Low	請參考測試 章節 4.2.1												
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Low	請參考測試 章節 4.2.1												
Middle													
High													
Low	請參考測試 章節 4.2.1												

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定
3	發射頻譜波罩 符合[行動通信電信終端設備技術規範]附表 47	LTE Band 8		1	BW=1.4 MHz	6	Low	QPSK	Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
Low	請參考測試章節 4.2.1												
Middle													
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Low	請參考測試章節 4.2.1												
Middle													
High													
Low	請參考測試章節 4.2.1												
Middle													
High													

項次	檢驗項目及標準值	工頻	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	檢 驗 結 果	判 定
3	發射頻譜波罩 符合[行動通信電信 終端設備技術規範] 附表 47	LTE Band 8	13	BW= 10 MHz	50	Low	QPSK	Low	請參考測試 章節 4.2.1	符 合		
								Middle				
								High				
			14	BW= 10 MHz	12	Low	QPSK	Low	請參考測試 章節 4.2.1			
								Middle				
								High				
			15	BW= 10 MHz	12	High	QPSK	Low	請參考測試 章節 4.2.1			
								Middle				
								High				
			16	BW= 10 MHz	50	Low	16QAM	Low	請參考測試 章節 4.2.1			
								Middle				
								High				
			17	BW= 10 MHz	12	Low	16QAM	Low	請參考測試 章節 4.2.1			
								Middle				
								High				
			18	BW= 10 MHz	12	High	16QAM	Low	請參考測試 章節 4.2.1			
								Middle				
								High				

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定
3	發射頻譜波罩 符合[行動通信電信終端設備技術規範]附表 47	LTE Band 28		1	BW= 3 MHz	15	Low	QPSK	Low	請參考測試章節 4.2.1	符合		
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
Low	請參考測試章節 4.2.1												
Middle													
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Low	請參考測試章節 4.2.1												
Middle													
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項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定				
3	發射頻譜波罩 符合[行動通信電信 終端設備技術規範] 附表 47	LTE Band 28		13	BW= 10 MHz	50	Low	QPSK	Low	請參考測試 章節 4.2.1		符合					
									Middle								
									High								
									14	BW= 10 MHz	12		Low	QPSK	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
									15	BW= 10 MHz	12		High	QPSK	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
									16	BW= 10 MHz	50		Low	16QAM	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
									17	BW= 10 MHz	12		Low	16QAM	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
									18	BW= 10 MHz	12		High	16QAM	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
									19	BW= 20 MHz	100		Low	QPSK	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
									20	BW= 20 MHz	18		Low	QPSK	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
									21	BW= 20 MHz	18		High	QPSK	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
									22	BW= 20 MHz	100		Low	16QAM	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
									23	BW= 20 MHz	18		Low	16QAM	Low	請參考測試 章節 4.2.1	
															Middle		
															High		
24	BW= 20 MHz	18	High	16QAM	Low	請參考測試 章節 4.2.1											
					Middle												
					High												

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定			
3	發射頻譜波罩 符合[行動通信電信 終端設備技術規範] 附表 47	LTE Band 7		1	BW= 5 MHz	25	Low	QPSK	Low	請參考測試 章節 4.2.1						
									Middle							
									High							
									2	BW= 5 MHz		8	Low	QPSK	Low	請參考測試 章節 4.2.1
									Middle							
									High							
									3	BW= 5 MHz		8	High	QPSK	Low	請參考測試 章節 4.2.1
									Middle							
									High							
									4	BW= 5 MHz		25	Low	16QAM	Low	請參考測試 章節 4.2.1
									Middle							
									High							
									5	BW= 5 MHz		8	Low	16QAM	Low	請參考測試 章節 4.2.1
									Middle							
									High							
									6	BW= 5 MHz		8	High	16QAM	Low	請參考測試 章節 4.2.1
									Middle							
									High							
									7	BW= 10 MHz		50	Low	QPSK	Low	請參考測試 章節 4.2.1
									Middle							
									High							
									8	BW= 10 MHz		12	Low	QPSK	Low	請參考測試 章節 4.2.1
									Middle							
									High							
									9	BW= 10 MHz		12	High	QPSK	Low	請參考測試 章節 4.2.1
									Middle							
									High							
10	BW= 10 MHz	50	Low	16QAM	Low	請參考測試 章節 4.2.1										
Middle																
High																
11	BW= 10 MHz	12	Low	16QAM	Low	請參考測試 章節 4.2.1										
Middle																
High																
12	BW= 10 MHz	12	High	16QAM	Low	請參考測試 章節 4.2.1										
Middle																
High																

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢驗頻	測道	檢驗結果	判定
3	發射頻譜波罩 符合[行動通信電信 終端設備技術規範] 附表 47		LTE Band 7	13	BW= 20 MHz	100	Low	QPSK		Low	請參考測試 章節 4.2.1	符合	
										Middle			
										High			
				14	BW= 20 MHz	18	Low	QPSK		Low	請參考測試 章節 4.2.1		
										Middle			
										High			
				15	BW= 20 MHz	18	High	QPSK		Low	請參考測試 章節 4.2.1		
										Middle			
										High			
				16	BW= 20 MHz	100	Low	16QAM		Low	請參考測試 章節 4.2.1		
										Middle			
										High			
				17	BW= 20 MHz	18	Low	16QAM		Low	請參考測試 章節 4.2.1		
										Middle			
										High			
				18	BW= 20 MHz	18	High	16QAM		Low	請參考測試 章節 4.2.1		
										Middle			
										High			

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定			
3	發射頻譜波罩 符合[行動通信電信終端設備技術規範]附表 47	LTE Band 38		1	BW=5 MHz	25	Low	QPSK	Low	請參考測試章節 4.2.1						
									Middle							
									High							
									2	BW=5 MHz		8	Low	QPSK	Low	請參考測試章節 4.2.1
															Middle	
															High	
									3	BW=5 MHz		8	High	QPSK	Low	請參考測試章節 4.2.1
															Middle	
															High	
									4	BW=5 MHz		25	Low	16QAM	Low	請參考測試章節 4.2.1
															Middle	
															High	
									5	BW=5 MHz		8	Low	16QAM	Low	請參考測試章節 4.2.1
															Middle	
															High	
									6	BW=5 MHz		8	High	16QAM	Low	請參考測試章節 4.2.1
															Middle	
															High	
									7	BW=10 MHz		50	Low	QPSK	Low	請參考測試章節 4.2.1
															Middle	
															High	
									8	BW=10 MHz		12	Low	QPSK	Low	請參考測試章節 4.2.1
															Middle	
															High	
									9	BW=10 MHz		12	High	QPSK	Low	請參考測試章節 4.2.1
															Middle	
															High	
									10	BW=10 MHz		50	Low	16QAM	Low	請參考測試章節 4.2.1
															Middle	
															High	
									11	BW=10 MHz		12	Low	16QAM	Low	請參考測試章節 4.2.1
															Middle	
															High	
									12	BW=10 MHz		12	High	16QAM	Low	請參考測試章節 4.2.1
															Middle	
															High	

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	檢驗結果	判定
3	發射頻譜波罩 符合[行動通信電信 終端設備技術規範] 附表 47	LTE Band 38		13	BW= 20 MHz	100	Low	QPSK	Low	請參考測試 章節 4.2.1	符合		
									Middle				
									High				
				14	BW= 20 MHz	18	Low	QPSK	Low	請參考測試 章節 4.2.1			
									Middle				
									High				
				15	BW= 20 MHz	18	High	QPSK	Low	請參考測試 章節 4.2.1			
									Middle				
									High				
				16	BW= 20 MHz	100	Low	16QAM	Low	請參考測試 章節 4.2.1			
									Middle				
									High				
				17	BW= 20 MHz	18	Low	16QAM	Low	請參考測試 章節 4.2.1			
									Middle				
									High				
				18	BW= 20 MHz	18	High	16QAM	Low	請參考測試 章節 4.2.1			
									Middle				
									High				

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定
3	發射頻譜波罩 符合[行動通信電信終端設備技術規範]附表 47	LTE Band 41		1	BW=5 MHz	25	Low	QPSK	Low	請參考測試章節 4.2.1	符合		
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
									Low	請參考測試章節 4.2.1			
									Middle				
									High				
Low	請參考測試章節 4.2.1												
Middle													
High													

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	檢 驗 結 果	判 定
3	發射頻譜波罩 符合[行動通信電信 終端設備技術規範] 附表 47	LTE Band 41		13	BW= 20 MHz	100	Low	QPSK		Low	請參考測試 章節 4.2.1	符 合	
										Middle			
										High			
				14	BW= 20 MHz	18	Low	QPSK		Low	請參考測試 章節 4.2.1		
										Middle			
										High			
				15	BW= 20 MHz	18	High	QPSK		Low	請參考測試 章節 4.2.1		
										Middle			
										High			
				16	BW= 20 MHz	100	Low	16QAM		Low	請參考測試 章節 4.2.1		
										Middle			
										High			
				17	BW= 20 MHz	18	Low	16QAM		Low	請參考測試 章節 4.2.1		
										Middle			
										High			
				18	BW= 20 MHz	18	High	16QAM		Low	請參考測試 章節 4.2.1		
										Middle			
										High			

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定
3	發射頻譜波罩 符合[行動通信電信 終端設備技術規範] 附表 47									Low	請參考測試 章節 4.2.1	符合	
										Middle			
										High			
										Low	請參考測試 章節 4.2.1		
										Middle			
										High			
										Low	請參考測試 章節 4.2.1		
										Middle			
										High			
										Low	請參考測試 章節 4.2.1		
										Middle			
										High			
										Low	請參考測試 章節 4.2.1		
										Middle			
										High			
										Low	請參考測試 章節 4.2.1		
										Middle			
										High			
										Low	請參考測試 章節 4.2.1		
										Middle			
										High			
										Low	請參考測試 章節 4.2.1		
										Middle			
										High			
Low	請參考測試 章節 4.2.1												
Middle													
High													
Low	請參考測試 章節 4.2.1												
Middle													
High													

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢驗頻	測道	檢驗結果	判定
3	發射頻譜波罩 符合[行動通信電信 終端設備技術規範] 附表 47	LTE Band 1		13	BW= 20 MHz	100	Low	QPSK	Low	請參考測試 章節 4.2.1	符合		
									Middle				
									High				
				14	BW= 20 MHz	18	Low	QPSK	Low	請參考測試 章節 4.2.1			
									Middle				
									High				
				15	BW= 20 MHz	18	High	QPSK	Low	請參考測試 章節 4.2.1			
									Middle				
									High				
				16	BW= 20 MHz	100	Low	16QAM	Low	請參考測試 章節 4.2.1			
									Middle				
									High				
				17	BW= 20 MHz	18	Low	16QAM	Low	請參考測試 章節 4.2.1			
									Middle				
									High				
				18	BW= 20 MHz	18	High	16QAM	Low	請參考測試 章節 4.2.1			
									Middle				
									High				

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	判定
4	傳導帶外輻射發射 符合[行動通信電信 終端設備技術規範] 附表 49	LTE Band 3		1	BW= 1.4 MHz	1	High	QPSK	Low Channel	符 合		
				2					Middle Channel			
				3					High Channel			
				4	BW= 1.4 MHz	1	Low	QPSK	Low Channel			
				5					Middle Channel			
				6					High Channel			
				7	BW= 1.4 MHz	6	Low	QPSK	Low Channel			
				8					Middle Channel			
				9					High Channel			
				10	BW= 5 MHz	1	High	QPSK	Low Channel			
				11					Middle Channel			
				12					High Channel			
				13	BW= 5 MHz	1	Low	QPSK	Low Channel			
				14					Middle Channel			
				15					High Channel			
				16	BW= 5 MHz	25	Low	QPSK	Low Channel			
				17					Middle Channel			
				18					High Channel			
				19	BW= 20 MHz	1	High	QPSK	Low Channel			
				20					Middle Channel			
				21					High Channel			
				22	BW= 20 MHz	1	Low	QPSK	Low Channel			
				23					Middle Channel			
				24					High Channel			
				25	BW= 20 MHz	100	Low	QPSK	Low Channel			
				26					Middle Channel			
				27					High Channel			

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	判定
4	傳導帶外輻射發射 符合[行動通信電信 終端設備技術規範] 附表 49	LTE Band 8		1	BW= 1.4 MHz	1	High	QPSK	Low Channel	符 合		
				2					Middle Channel			
				3					High Channel			
				4	BW= 1.4 MHz	1	Low	QPSK	Low Channel			
				5					Middle Channel			
				6					High Channel			
				7	BW= 1.4 MHz	6	Low	QPSK	Low Channel			
				8					Middle Channel			
				9					High Channel			
				10	BW= 5 MHz	1	High	QPSK	Low Channel			
				11					Middle Channel			
				12					High Channel			
				13	BW= 5 MHz	1	Low	QPSK	Low Channel			
				14					Middle Channel			
				15					High Channel			
				16	BW= 5 MHz	25	Low	QPSK	Low Channel			
				17					Middle Channel			
				18					High Channel			
				19	BW= 10 MHz	1	High	QPSK	Low Channel			
				20					Middle Channel			
				21					High Channel			
				22	BW= 10 MHz	1	Low	QPSK	Low Channel			
				23					Middle Channel			
				24					High Channel			
				25	BW= 10 MHz	50	Low	QPSK	Low Channel			
				26					Middle Channel			
				27					High Channel			

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	判定
4	傳導帶外輻射發射 符合[行動通信電信 終端設備技術規範] 附表 49		LTE Band 28	1	BW= 3 MHz	1	High	QPSK	Low Channel	符 合		
				2					Middle Channel			
				3					High Channel			
				4	BW= 3 MHz	1	Low	QPSK	Low Channel			
				5					Middle Channel			
				6					High Channel			
				7	BW= 3 MHz	15	Low	QPSK	Low Channel			
				8					Middle Channel			
				9					High Channel			
				10	BW= 5 MHz	1	High	QPSK	Low Channel			
				11					Middle Channel			
				12					High Channel			
				13	BW= 5 MHz	1	Low	QPSK	Low Channel			
				14					Middle Channel			
				15					High Channel			
				16	BW= 5 MHz	25	Low	QPSK	Low Channel			
				17					Middle Channel			
				18					High Channel			
				19	BW= 20 MHz	1	High	QPSK	Low Channel			
				20					Middle Channel			
				21					High Channel			
				22	BW= 20 MHz	1	Low	QPSK	Low Channel			
				23					Middle Channel			
				24					High Channel			
				25	BW= 20 MHz	100	Low	QPSK	Low Channel			
				26					Middle Channel			
				27					High Channel			

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	判定
4	傳導帶外輻射發射 符合[行動通信電信 終端設備技術規範] 附表 49	LTE Band 7		1	BW=5 MHz	1	High	QPSK	Low Channel	符合		
				2					Middle Channel			
				3					High Channel			
				4	BW=5 MHz	1	Low	QPSK	Low Channel			
				5					Middle Channel			
				6					High Channel			
				7	BW=5 MHz	25	Low	QPSK	Low Channel			
				8					Middle Channel			
				9					High Channel			
				10	BW=20 MHz	1	High	QPSK	Low Channel			
				11					Middle Channel			
				12					High Channel			
				13	BW=20 MHz	1	Low	QPSK	Low Channel			
				14					Middle Channel			
				15					High Channel			
				16	BW=20 MHz	100	Low	QPSK	Low Channel			
				17					Middle Channel			
				18					High Channel			

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	判定
4	傳導帶外輻射發射 符合[行動通信電信終端設備技術規範]附表 49	LTE Band 38		1	BW= 5 MHz	1	High	QPSK	Low Channel	符合		
				2					Middle Channel			
				3					High Channel			
				4	BW= 5 MHz	1	Low	QPSK	Low Channel			
				5					Middle Channel			
				6					High Channel			
				7	BW= 5 MHz	25	Low	QPSK	Low Channel			
				8					Middle Channel			
				9					High Channel			
				10	BW= 20 MHz	1	High	QPSK	Low Channel			
				11					Middle Channel			
				12					High Channel			
				13	BW= 20 MHz	1	Low	QPSK	Low Channel			
				14					Middle Channel			
				15					High Channel			
				16	BW= 20 MHz	100	Low	QPSK	Low Channel			
				17					Middle Channel			
				18					High Channel			

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	判定
4	傳導帶外輻射發射 符合[行動通信電信 終端設備技術規範] 附表 49	LTE Band 41		1	BW=5 MHz	1	High	QPSK	Low Channel	符 合		
				2					Middle Channel			
				3					High Channel			
				4	BW=5 MHz	1	Low	QPSK	Low Channel			
				5					Middle Channel			
				6					High Channel			
				7	BW=5 MHz	25	Low	QPSK	Low Channel			
				8					Middle Channel			
				9					High Channel			
				10	BW=20 MHz	1	High	QPSK	Low Channel			
				11					Middle Channel			
				12					High Channel			
				13	BW=20 MHz	1	Low	QPSK	Low Channel			
				14					Middle Channel			
				15					High Channel			
				16	BW=20 MHz	100	Low	QPSK	Low Channel			
				17					Middle Channel			
				18					High Channel			

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	判定
4	傳導帶外輻射發射 符合[行動通信電信 終端設備技術規範] 附表 49	LTE Band 1		1	BW=5 MHz	1	High	QPSK		Low Channel	符合	
				2					Middle Channel			
				3					High Channel			
				4	BW=5 MHz	1	Low	QPSK		Low Channel		
				5					Middle Channel			
				6					High Channel			
				7	BW=5 MHz	25	Low	QPSK		Low Channel		
				8					Middle Channel			
				9					High Channel			
				10	BW=20 MHz	1	High	QPSK		Low Channel		
				11					Middle Channel			
				12					High Channel			
				13	BW=20 MHz	1	Low	QPSK		Low Channel		
				14					Middle Channel			
				15					High Channel			
				16	BW=20 MHz	100	Low	QPSK		Low Channel		
				17					Middle Channel			
				18					High Channel			

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定
5	ACLR 限制值: ≥ 29.2 dB									Low	請參考測試 章節 4.2.2	符合	
										Middle			
										High			
										Low	請參考測試 章節 4.2.2		
										Middle			
										High			
										Low	請參考測試 章節 4.2.2		
										Middle			
										High			
										Low	請參考測試 章節 4.2.2		
										Middle			
										High			
										Low	請參考測試 章節 4.2.2		
										Middle			
										High			
										Low	請參考測試 章節 4.2.2		
										Middle			
										High			
										Low	請參考測試 章節 4.2.2		
										Middle			
										High			
										Low	請參考測試 章節 4.2.2		
										Middle			
										High			
Low	請參考測試 章節 4.2.2												
Middle													
High													
Low	請參考測試 章節 4.2.2												
Middle													
High													
Low	請參考測試 章節 4.2.2												
Middle													
High													
Low	請參考測試 章節 4.2.2												
Middle													
High													
Low	請參考測試 章節 4.2.2												
Middle													
High													

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測速	檢驗結果	判定							
5	ACLR 限制值: ≥ 29.2 dB												符合							
														13	BW=10 MHz	50	Low	QPSK	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														14	BW=10 MHz	12	Low	QPSK	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														15	BW=10 MHz	12	High	QPSK	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														16	BW=10 MHz	50	Low	16QAM	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														17	BW=10 MHz	12	Low	16QAM	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														18	BW=10 MHz	12	High	16QAM	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														19	BW=20 MHz	100	Low	QPSK	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														20	BW=20 MHz	18	Low	QPSK	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														21	BW=20 MHz	18	High	QPSK	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														22	BW=20 MHz	100	Low	16QAM	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														23	BW=20 MHz	18	Low	16QAM	Low	請參考測試 章節 4.2.2
																			Middle	
																			High	
														24	BW=20 MHz	18	High	16QAM	Low	請參考測試 章節 4.2.2
																			Middle	
High																				

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	檢驗結果	判定									
5	ACLR 限制值： ≥ 29.2 dB											請參考測試 章節 4.2.2	符合									
														1	BW=1.4 MHz	6	Low	QPSK	Low	Middle	High	
														2	BW=1.4 MHz	5	Low	QPSK	Low	Middle	High	請參考測試 章節 4.2.2
														3	BW=1.4 MHz	5	High	QPSK	Low	Middle	High	請參考測試 章節 4.2.2
														4	BW=1.4 MHz	6	Low	16QAM	Low	Middle	High	請參考測試 章節 4.2.2
														5	BW=1.4 MHz	5	Low	16QAM	Low	Middle	High	請參考測試 章節 4.2.2
														6	BW=1.4 MHz	5	High	16QAM	Low	Middle	High	請參考測試 章節 4.2.2
														7	BW=5 MHz	25	Low	QPSK	Low	Middle	High	請參考測試 章節 4.2.2
														8	BW=5 MHz	8	Low	QPSK	Low	Middle	High	請參考測試 章節 4.2.2
														9	BW=5 MHz	8	High	QPSK	Low	Middle	High	請參考測試 章節 4.2.2
10	BW=5 MHz	25	Low	16QAM	Low	Middle	High	請參考測試 章節 4.2.2														
11	BW=5 MHz	8	Low	16QAM	Low	Middle	High	請參考測試 章節 4.2.2														
12	BW=5 MHz	8	High	16QAM	Low	Middle	High	請參考測試 章節 4.2.2														

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢驗頻	測道	檢驗結果	判定
5	ACLR 限制值： ≥ 29.2 dB	LTE Band 8		13	BW= 10 MHz	50	Low	QPSK	Low	請參考測試 章節 4.2.2	符合		
									Middle				
									High				
				14	BW= 10 MHz	12	Low	QPSK	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				15	BW= 10 MHz	12	High	QPSK	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				16	BW= 10 MHz	50	Low	16QAM	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				17	BW= 10 MHz	12	Low	16QAM	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
18	BW= 10 MHz	12	High	16QAM	Low	請參考測試 章節 4.2.2							
					Middle								
					High								

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測 道	檢 驗 結 果	判 定
5	ACLR 限制值: ≥ 29.2 dB	LTE Band 28		1	BW= 3 MHz	15	Low	QPSK	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
									Low	請參考測試 章節 4.2.2			
									Middle				
									High				
									Low	請參考測試 章節 4.2.2			
									Middle				
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項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定
5	ACLR 限制值: ≥ 29.2 dB									Low	請參考測試 章節 4.2.2	符合	
										Middle			
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項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測速	檢驗結果	判定
5	ACLR 限制值: ≥ 29.2 dB									Low	請參考測試 章節 4.2.2	符合	
										Middle			
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項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢驗頻	測道	檢驗結果	判定
5	ACLR 限制值: ≥ 29.2 dB		LTE Band 7	13	BW= 20 MHz	100	Low	QPSK	Low	請參考測試 章節 4.2.2	符合		
									Middle				
									High				
				14	BW= 20 MHz	18	Low	QPSK	Low	請參考測試 章節 4.2.2			
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				15	BW= 20 MHz	18	High	QPSK	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				16	BW= 20 MHz	100	Low	16QAM	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				17	BW= 20 MHz	18	Low	16QAM	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				18	BW= 20 MHz	18	High	16QAM	Low	請參考測試 章節 4.2.2			
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項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測 道	檢 驗 結 果	判 定
5	ACLR 限制值: ≥ 29.2 dB	LTE Band 38		1	BW= 5 MHz	25	Low	QPSK	Low	請參考測試 章節 4.2.2			
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項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢驗頻	測道	檢驗結果	判定
5	ACLR 限制值: ≥ 29.2 dB	LTE Band 38		13	BW= 20 MHz	100	Low	QPSK	Low	請參考測試 章節 4.2.2	符合		
									Middle				
									High				
				14	BW= 20 MHz	18	Low	QPSK	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				15	BW= 20 MHz	18	High	QPSK	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				16	BW= 20 MHz	100	Low	16QAM	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				17	BW= 20 MHz	18	Low	16QAM	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
18	BW= 20 MHz	18	High	16QAM	Low	請參考測試 章節 4.2.2							
					Middle								
					High								

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢頻	測道	檢驗結果	判定										
5	ACLR 限制值: ≥ 29.2 dB	LTE Band 41		1	BW= 5 MHz	25	Low	QPSK	Low	請參考測試 章節 4.2.2													
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項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢驗頻	測道	檢驗結果	判定
5	ACLR 限制值： ≥ 29.2 dB	LTE Band 41		13	BW= 20 MHz	100	Low	QPSK	Low	請參考測試 章節 4.2.2	符合		
									Middle				
									High				
				14	BW= 20 MHz	18	Low	QPSK	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				15	BW= 20 MHz	18	High	QPSK	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				16	BW= 20 MHz	100	Low	16QAM	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
				17	BW= 20 MHz	18	Low	16QAM	Low	請參考測試 章節 4.2.2			
									Middle				
									High				
18	BW= 20 MHz	18	High	16QAM	Low	請參考測試 章節 4.2.2							
					Middle								
					High								

項次	檢驗項目及標準值	工頻	作段	Test set	工頻	作寬	RB allocation	RB start	Modulation	檢測頻	測 道	檢 驗 結 果	判 定															
5	ACLR 限制值: ≥ 29.2 dB									Low	Middle	請參考測試 章節 4.2.2	符合															
														High														
															2	BW= 5 MHz	8	Low	QPSK	Low	Middle	High	請參考測試 章節 4.2.2					
										3	BW= 5 MHz	8												High	QPSK	Low	Middle	High
														4														
															5	BW= 5 MHz	8	Low	16QAM	Low	Middle	High	請參考測試 章節 4.2.2					
										6	BW= 5 MHz	8												High	16QAM	Low	Middle	High
														7														
															8	BW= 10 MHz	12	Low	QPSK	Low	Middle	High	請參考測試 章節 4.2.2					
										9	BW= 10 MHz	12												High	QPSK	Low	Middle	High
														10														
															11	BW= 10 MHz	12	Low	16QAM	Low	Middle	High	請參考測試 章節 4.2.2					
										12	BW= 10 MHz	12												High	16QAM	Low	Middle	High

項次	檢驗項目及標準值	工頻	Test set	工頻 作寬	RB allocation	RB start	Modulation	檢 測 頻 道	檢 驗 結 果	判 定
5	ACLR 限制值： ≥ 29.2 dB	LTE Band 1	13	BW= 20 MHz	100	Low	QPSK	Low	請參考測試 章節 4.2.2	符 合
								Middle		
								High		
			14	BW= 20 MHz	18	Low	QPSK	Low	請參考測試 章節 4.2.2	
								Middle		
								High		
			15	BW= 20 MHz	18	High	QPSK	Low	請參考測試 章節 4.2.2	
								Middle		
								High		
			16	BW= 20 MHz	100	Low	16QAM	Low	請參考測試 章節 4.2.2	
								Middle		
								High		
			17	BW= 20 MHz	18	Low	16QAM	Low	請參考測試 章節 4.2.2	
								Middle		
								High		
			18	BW= 20 MHz	18	High	16QAM	Low	請參考測試 章節 4.2.2	
								Middle		
								High		

項次	檢驗項目及標準	判定
6	頻率穩定度 終端設備於常態環境常態電壓、低極端溫度低極端電壓、低極端溫度高極端電壓、高極端溫度低極端電壓、高極端溫度高極端電壓等五種測試環境下，分別進行頻率量測，經 0/2/5/10 分鐘量測結果，頻率應維持在頻道之主波頻率 0.1ppm 以內。	符合

工作頻段	Band 3				
Modulation	QPSK, RB allocation=Full RB				
Bandwidth (MHz)	5				
Channel	中頻道				
Frequency (MHz)	1747.5				
測試溫度/電壓	檢驗結果				
	0 分鐘	2 分鐘	5 分鐘	10 分鐘	單位
TL/VL	0.005	-0.004	0.002	-0.004	ppm
TL/VH	0.003	-0.005	0.000	0.003	ppm
TN/VN	0.004	-0.005	-0.004	0.000	ppm
TH/VL	0.000	0.004	-0.003	-0.003	ppm
TH/VH	0.001	0.005	-0.003	-0.002	ppm

工作頻段	Band 8				
Modulation	QPSK, RB allocation=Full RB				
Bandwidth (MHz)	5				
Channel	中頻道				
Frequency (MHz)	900.0				
測試溫度/電壓	檢驗結果				
	0 分鐘	2 分鐘	5 分鐘	10 分鐘	單位
TL/VL	-0.005	-0.003	0.008	-0.008	ppm
TL/VH	0.007	0.003	-0.004	-0.005	ppm
TN/VN	0.001	0.000	0.005	0.004	ppm
TH/VL	-0.007	0.005	-0.004	-0.010	ppm
TH/VH	-0.011	0.009	0.006	0.000	ppm

工作頻段	Band 28				
Modulation	QPSK, RB allocation=Full RB				
Bandwidth (MHz)	5				
Channel	中頻道				
Frequency (MHz)	725.5				
測試溫度/電壓	檢驗結果				
	0 分鐘	2 分鐘	5 分鐘	10 分鐘	單位
TL/VL	0.010	0.012	-0.001	-0.013	ppm
TL/VH	0.007	0.014	-0.010	-0.012	ppm
TN/VN	0.013	0.006	-0.001	-0.009	ppm
TH/VL	-0.009	0.001	-0.013	0.000	ppm
TH/VH	0.001	-0.011	0.012	-0.008	ppm

工作頻段	Band 7				
Modulation	QPSK, RB allocation=Full RB				
Bandwidth (MHz)	5				
Channel	中頻道				
Frequency (MHz)	2535.0				
測試溫度/電壓	檢驗結果				
	0 分鐘	2 分鐘	5 分鐘	10 分鐘	單位
TL/VL	0.000	0.001	-0.002	0.002	ppm
TL/VH	0.002	0.002	-0.002	0.003	ppm
TN/VN	0.000	0.004	-0.002	0.001	ppm
TH/VL	-0.001	0.000	0.000	-0.003	ppm
TH/VH	0.000	0.000	0.003	0.000	ppm

工作頻段	Band 38				
Modulation	QPSK, RB allocation=Full RB				
Bandwidth (MHz)	5				
Channel	中頻道				
Frequency (MHz)	2595				
測試溫度/電壓	檢驗結果				
	0 分鐘	2 分鐘	5 分鐘	10 分鐘	單位
TL/VL	0.002	-0.002	0.000	-0.002	ppm
TL/VH	-0.003	-0.001	0.002	0.000	ppm
TN/VN	0.002	-0.002	0.001	-0.001	ppm
TH/VL	0.001	0.002	-0.002	0.000	ppm
TH/VH	-0.002	0.004	0.001	0.002	ppm

工作頻段	Band 41				
Modulation	QPSK, RB allocation=Full RB				
Bandwidth (MHz)	5				
Channel	中頻道				
Frequency (MHz)	2595				
測試溫度/電壓	檢驗結果				
	0 分鐘	2 分鐘	5 分鐘	10 分鐘	單位
TL/VL	-0.002	0.002	-0.003	-0.003	ppm
TL/VH	-0.002	0.002	0.003	0.002	ppm
TN/VN	0.000	0.001	0.000	-0.003	ppm
TH/VL	0.002	0.000	0.002	0.003	ppm
TH/VH	-0.002	0.005	-0.002	-0.001	ppm

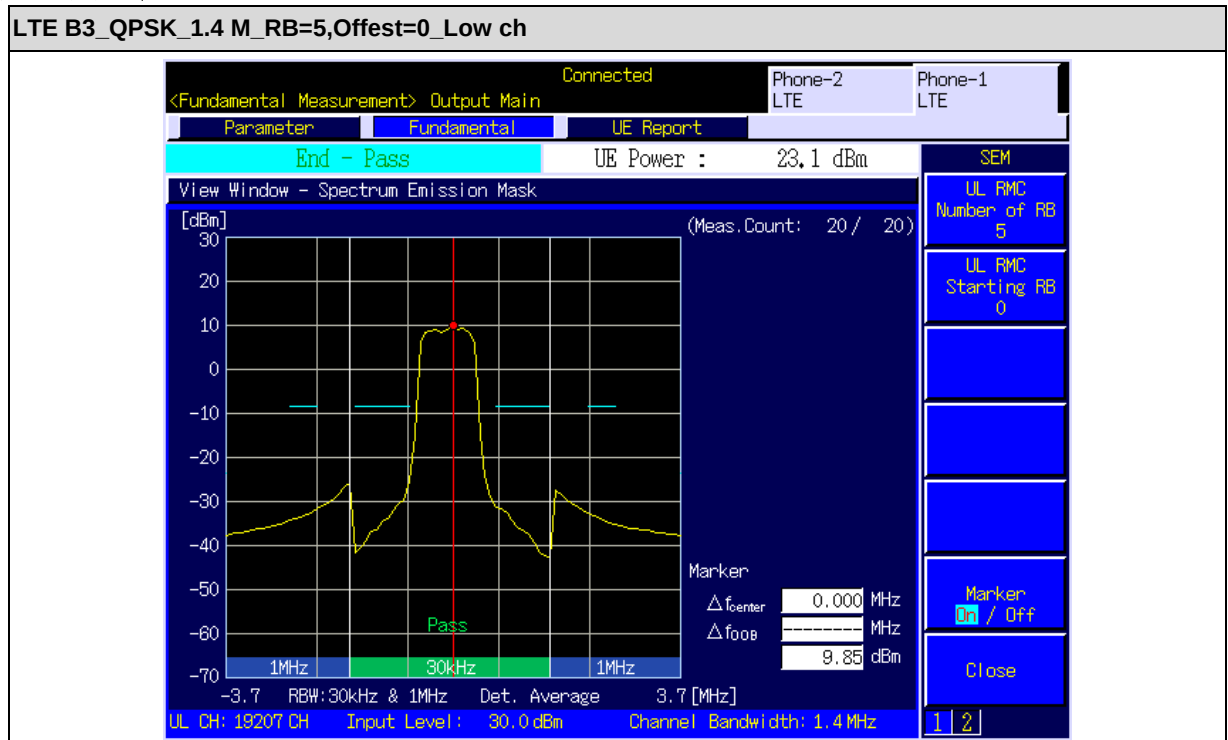
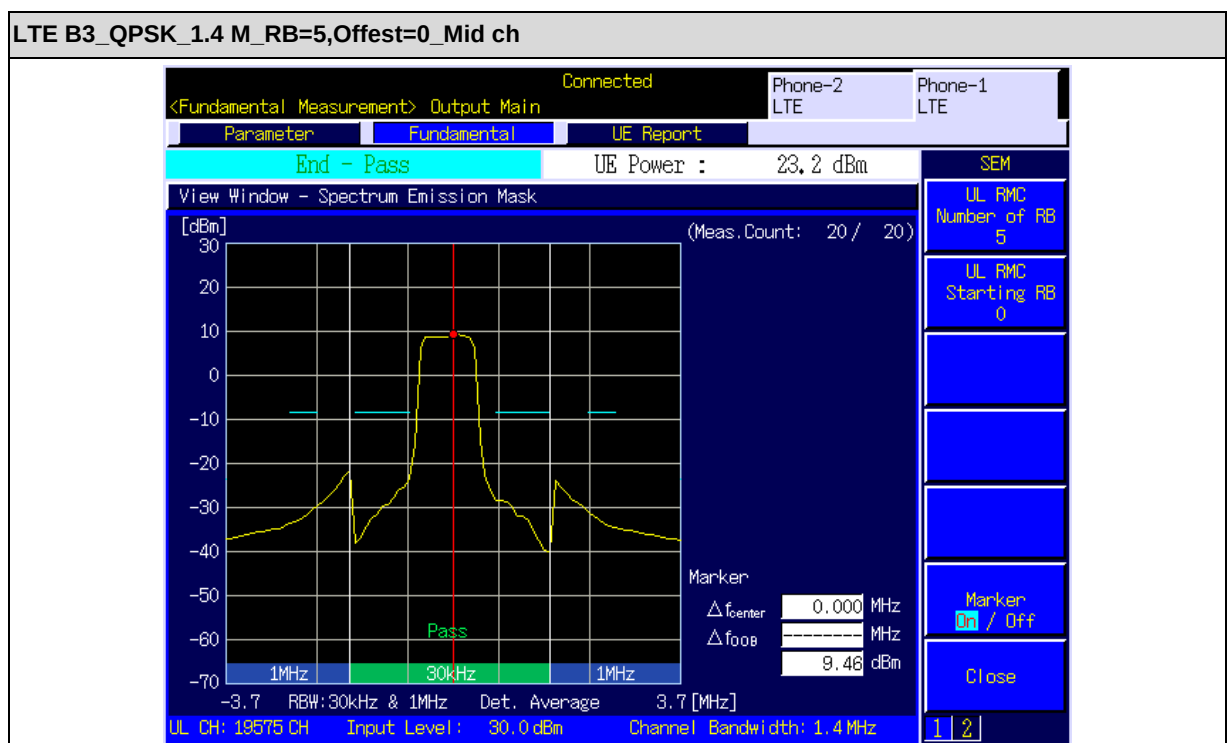
工作頻段	Band 1				
Modulation	QPSK, RB allocation=Full RB				
Bandwidth (MHz)	5				
Channel	中頻道				
Frequency (MHz)	1950				
測試溫度/電壓	檢驗結果				
	0 分鐘	2 分鐘	5 分鐘	10 分鐘	單位
TL/VL	0.002	0.001	0.002	0.003	ppm
TL/VH	0.005	0.000	0.001	-0.005	ppm
TN/VN	-0.001	0.000	0.005	0.004	ppm
TH/VL	-0.003	-0.002	-0.003	0.002	ppm
TH/VH	-0.004	0.000	-0.002	-0.002	ppm

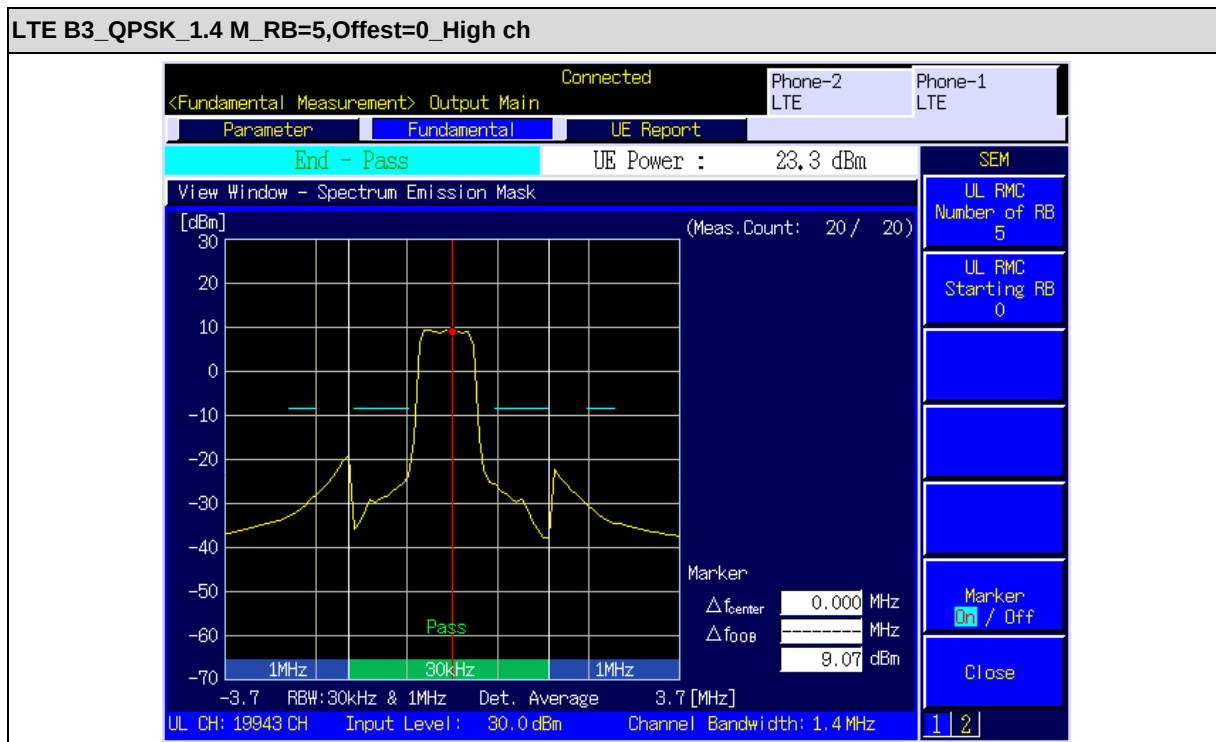
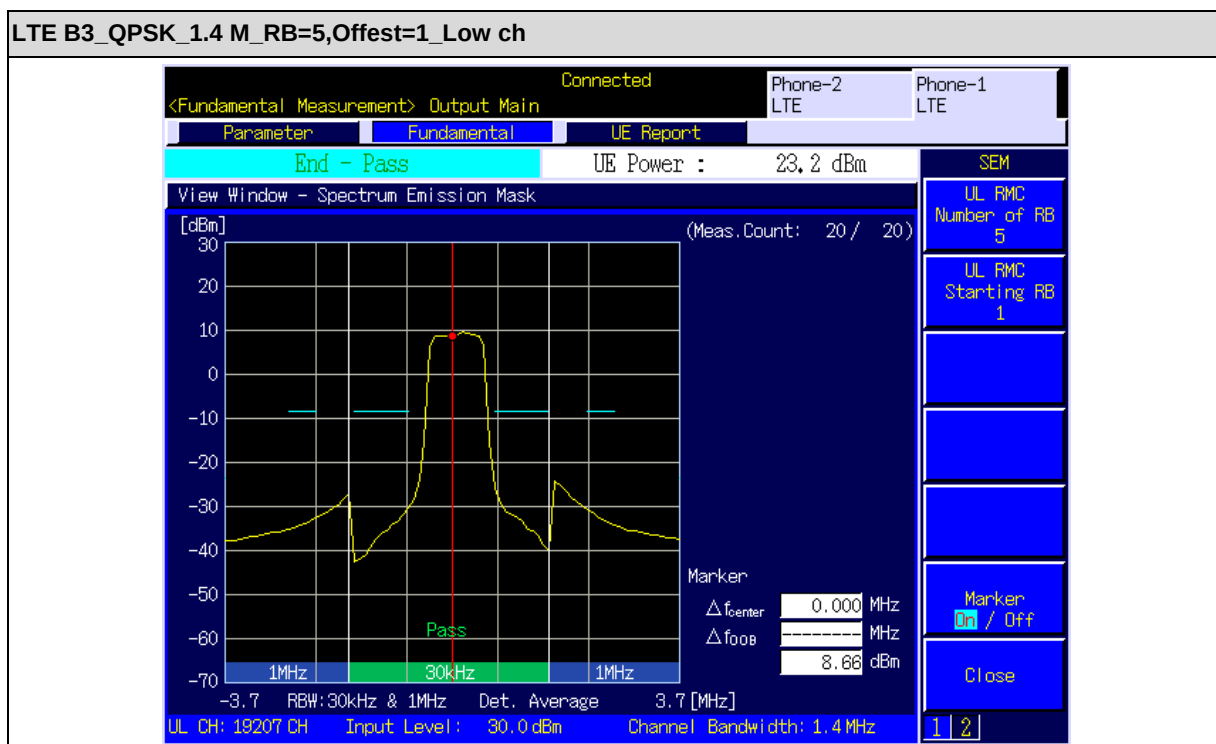
項次	檢驗項目及標準	判定
7	電波功率密度 電波功率密度限制值(Maximum Permissible Exposure , MPE) : 700 MHz 頻段為 0.35 mW/cm ² ; 900 MHz 頻段為 0.45 mW/cm ² ; 1800 MHz 頻段為 0.9 mW/cm ² ; 2100 MHz、2500 MHz 與 2600 MHz、3500MHz 及 28GHz 頻段為 1.0 mW/cm ² 。 量測距離為 20 公分，或以設備廠商宣告設備天線與附近人體可活動範圍之距離。	符合

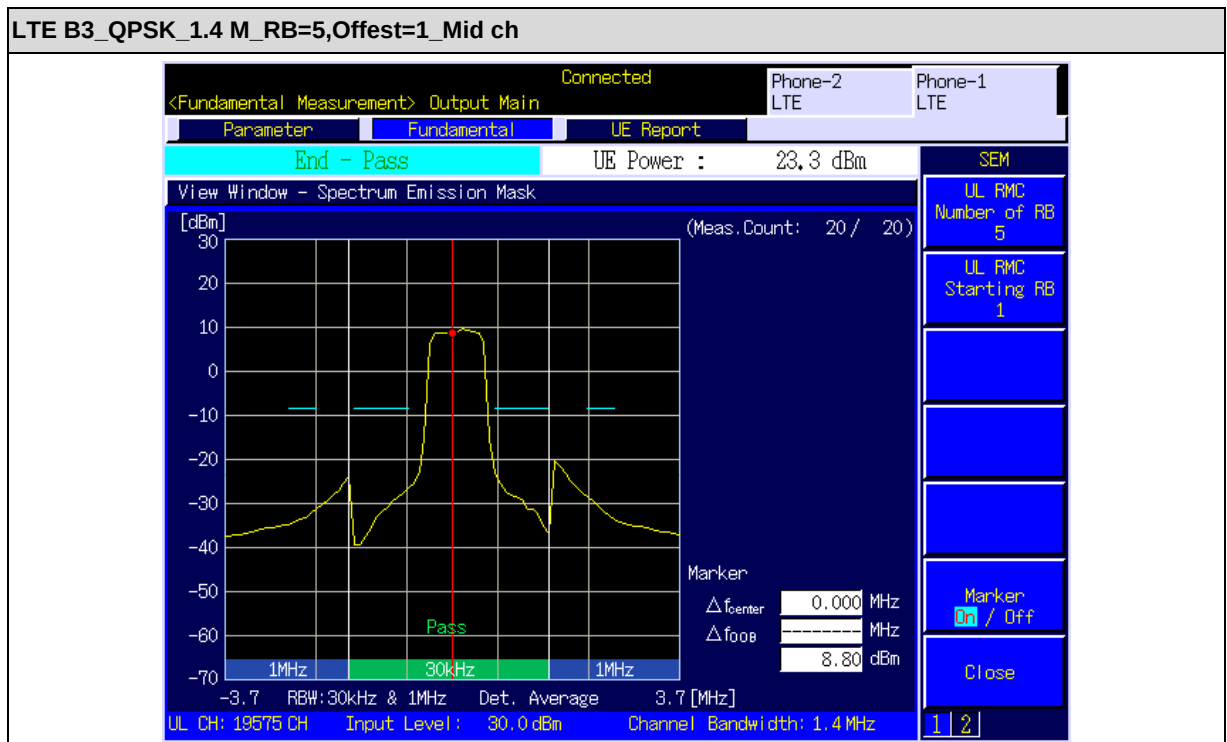
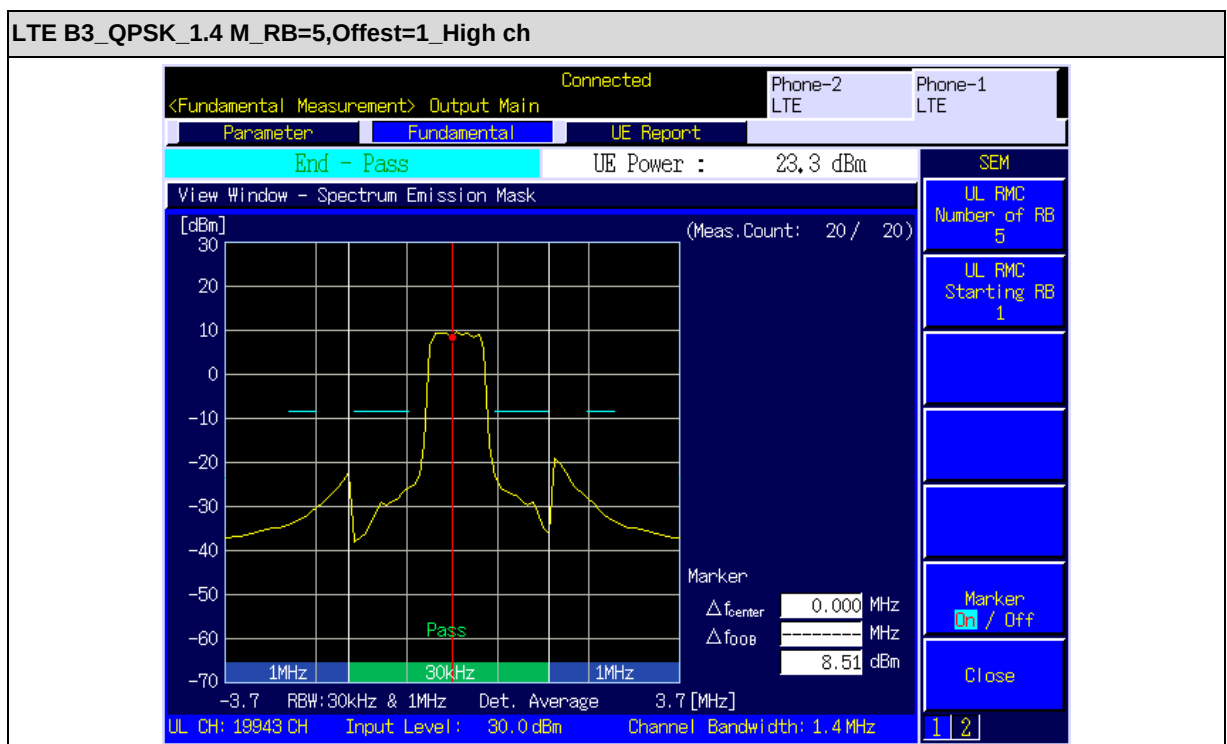
Band	Frequency (MHz)	BW (MHz)	Distance [R] (cm)	Power [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	With Duty cycle [P] x [G] (mW)	Power Density [S] (mW/cm ²)
LTE Band1	1930.0	20 MHz	20	23.23	2.88	1.94	1	408.133	0.081
	1950.0	20 MHz	20	23.36	2.88	1.94	1	420.535	0.084
	1970.0	20 MHz	20	23.25	2.88	1.94	1	410.017	0.082
LTE Band3	1720.0	20 MHz	20	23.42	2.84	1.92	1	421.989	0.084
	1747.5	20 MHz	20	23.62	2.84	1.92	1	441.877	0.088
	1775.0	20 MHz	20	23.66	2.84	1.92	1	445.965	0.089
LTE Band7	2502.5	5 MHz	20	23.05	2.26	1.68	1	339.086	0.067
	2535.0	5 MHz	20	22.77	2.26	1.68	1	317.914	0.063
	2567.5	5 MHz	20	23.37	2.26	1.68	1	365.014	0.073
LTE Band8	890.0	10 MHz	20	23.12	1.69	1.48	1	303.572	0.060
	900.0	10 MHz	20	23.22	1.69	1.48	1	310.643	0.062
	910.0	10 MHz	20	23.65	1.69	1.48	1	342.974	0.068
LTE Band28	705.5	5 MHz	20	23.49	1.46	1.4	1	312.700	0.062
	725.5	5 MHz	20	23.23	1.46	1.4	1	294.529	0.059
	745.5	5 MHz	20	23.19	1.46	1.4	1	291.829	0.058
LTE Band38	2572.5	5 MHz	20	23.68	1.41	1.38	1	322.017	0.064
	2595.0	5 MHz	20	23.36	1.41	1.38	1	299.143	0.060
	2617.5	5 MHz	20	23.02	1.41	1.38	1	276.617	0.055
LTE Band41	2510.0	20 MHz	20	23.44	2.84	1.92	1	423.937	0.084
	2595.0	20 MHz	20	23.14	2.84	1.92	1	395.641	0.079
	2680.0	20 MHz	20	23.42	2.84	1.92	1	421.989	0.084

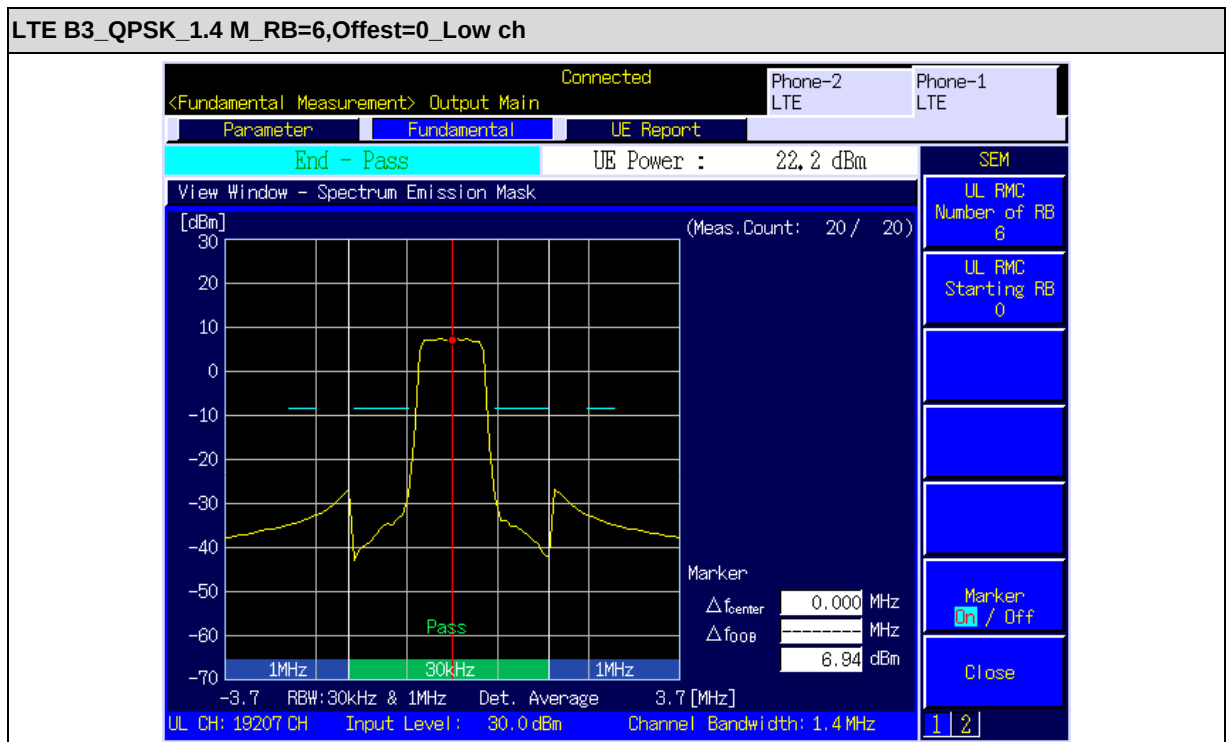
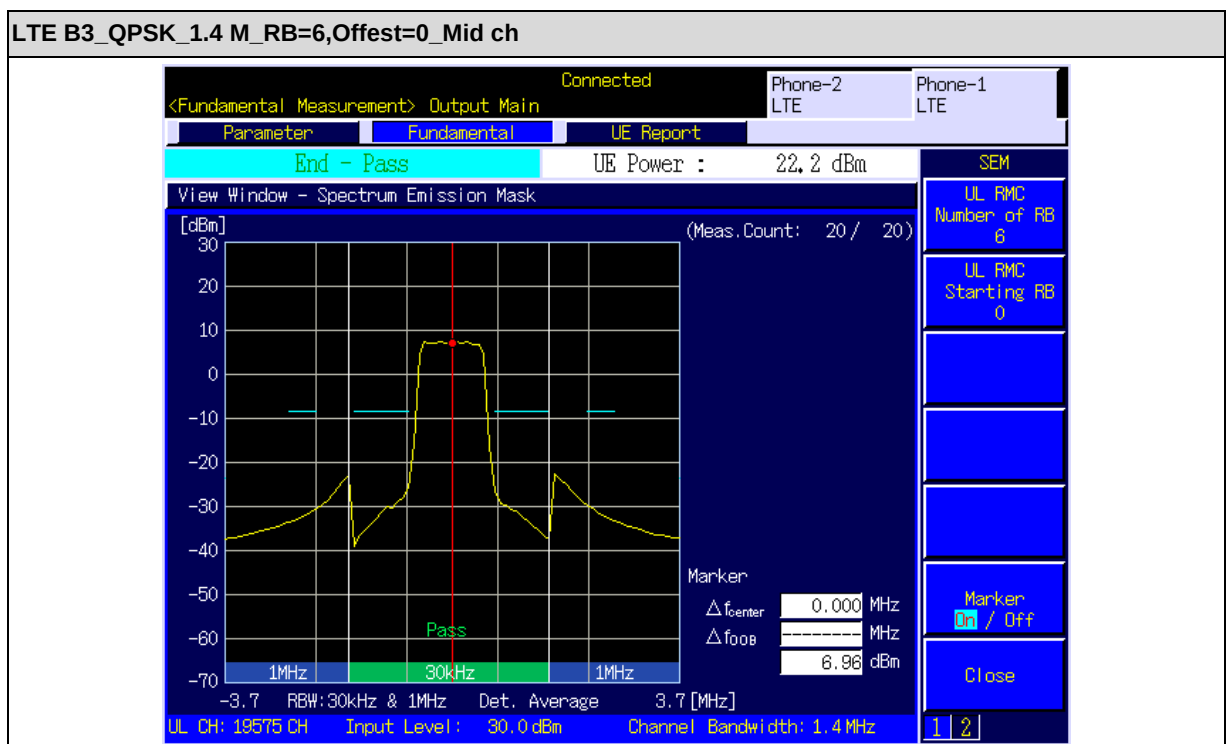
4.2 測試掃描圖

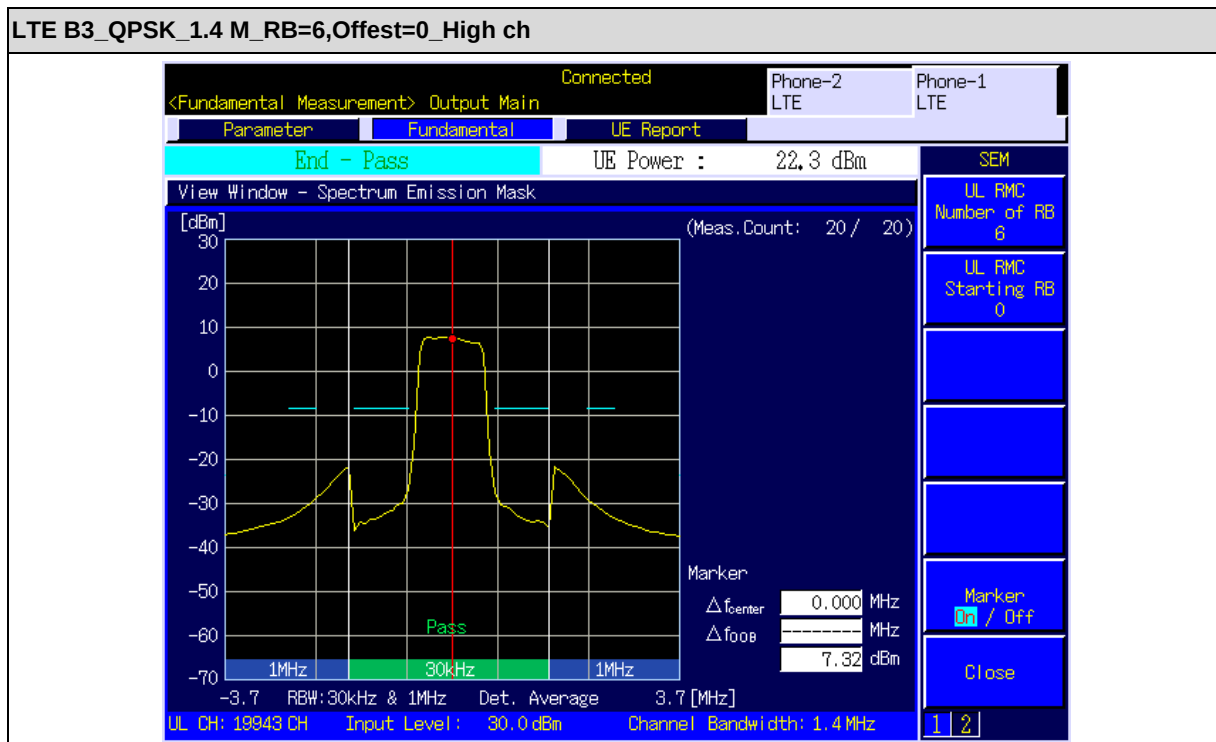
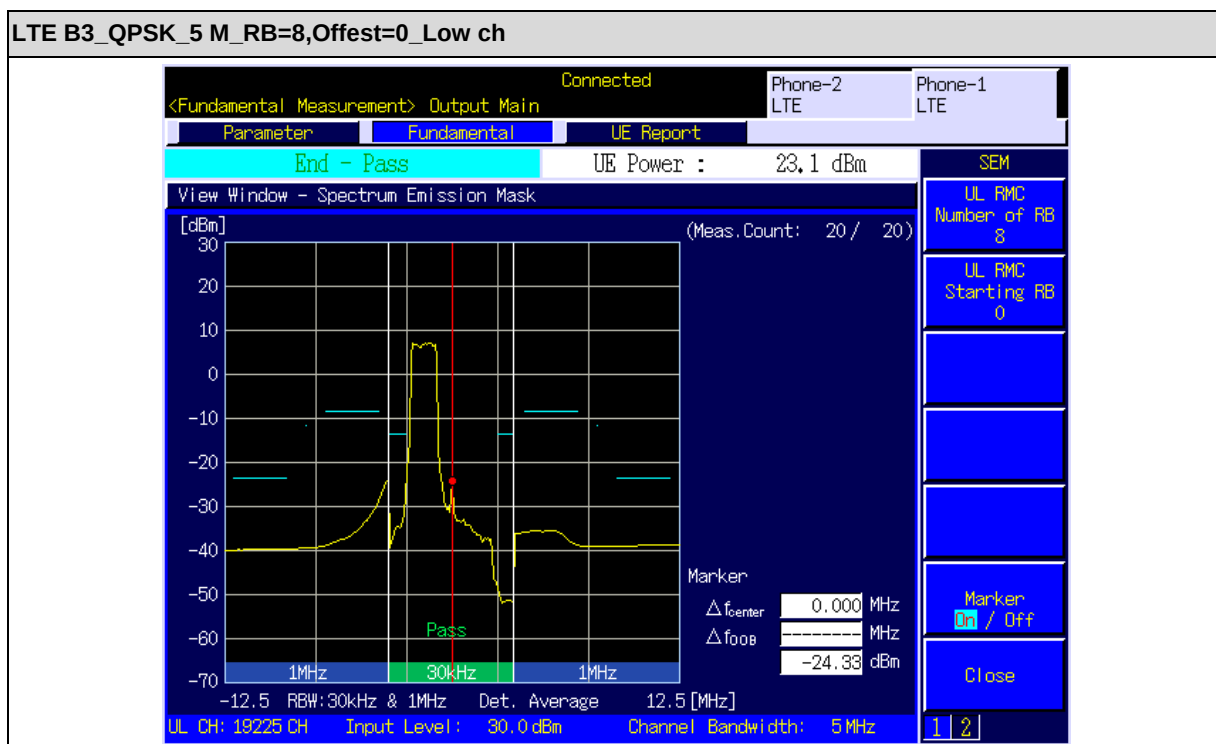
4.2.1 發射頻譜波罩

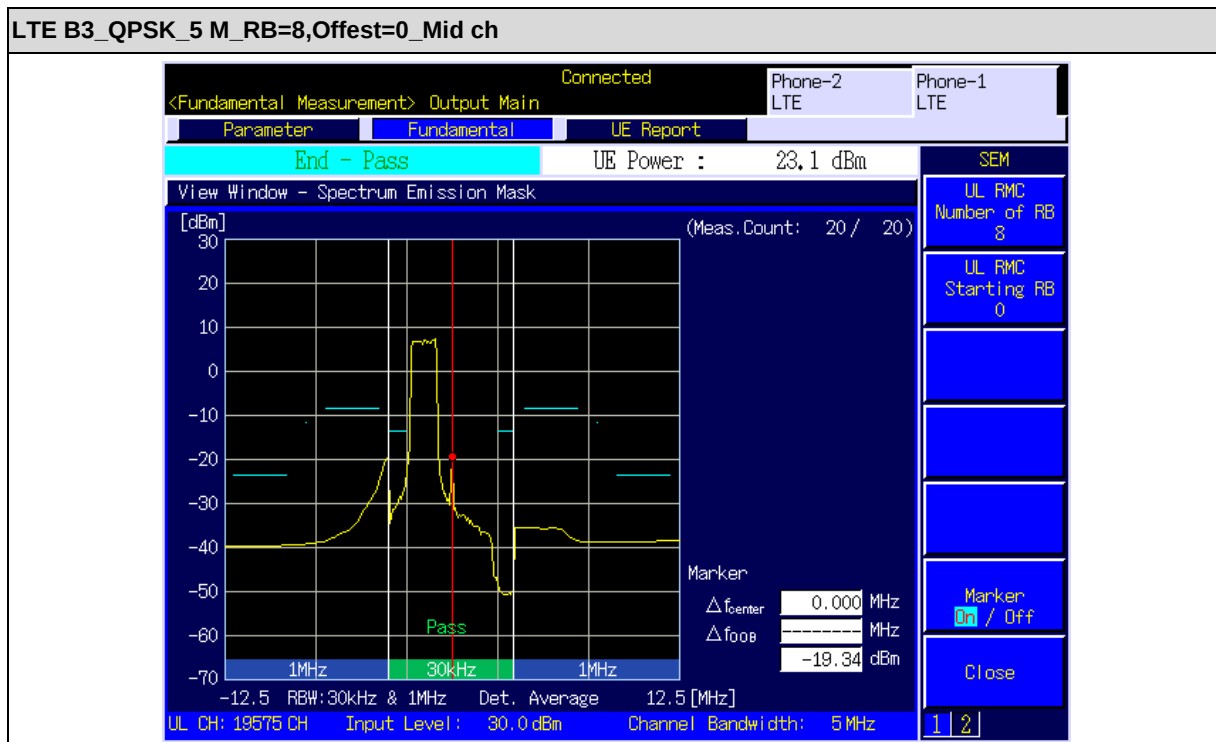
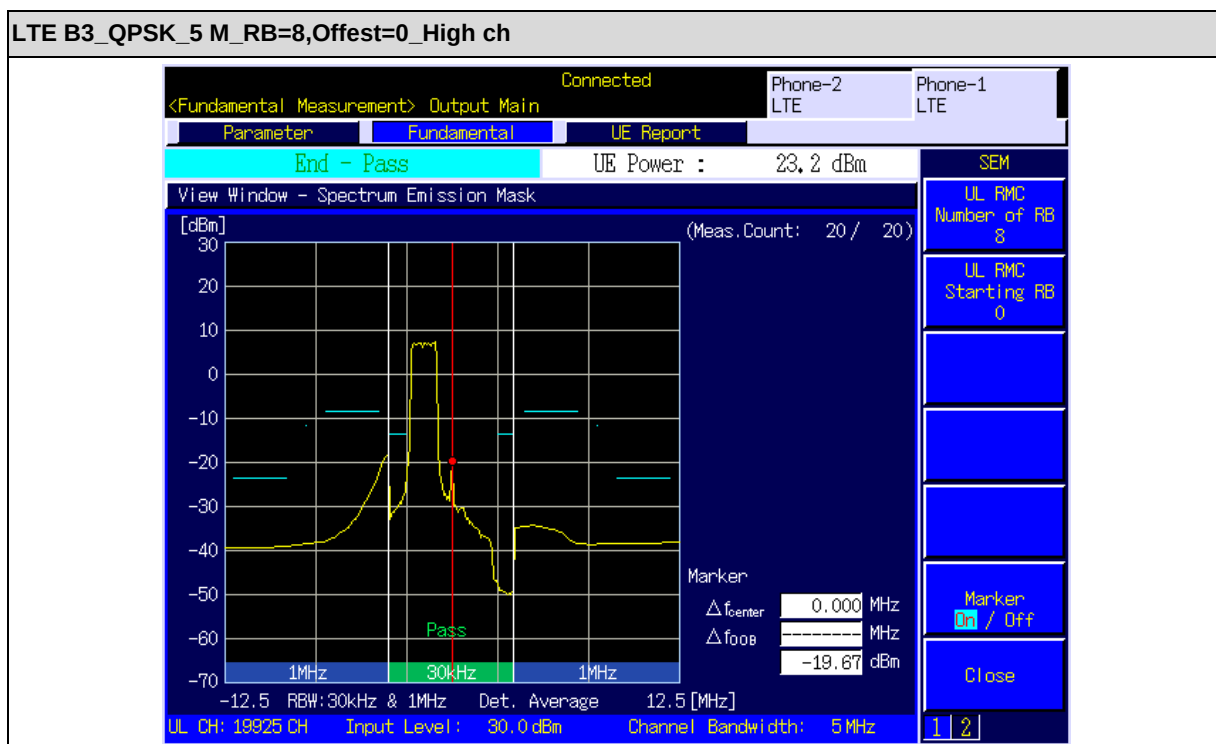


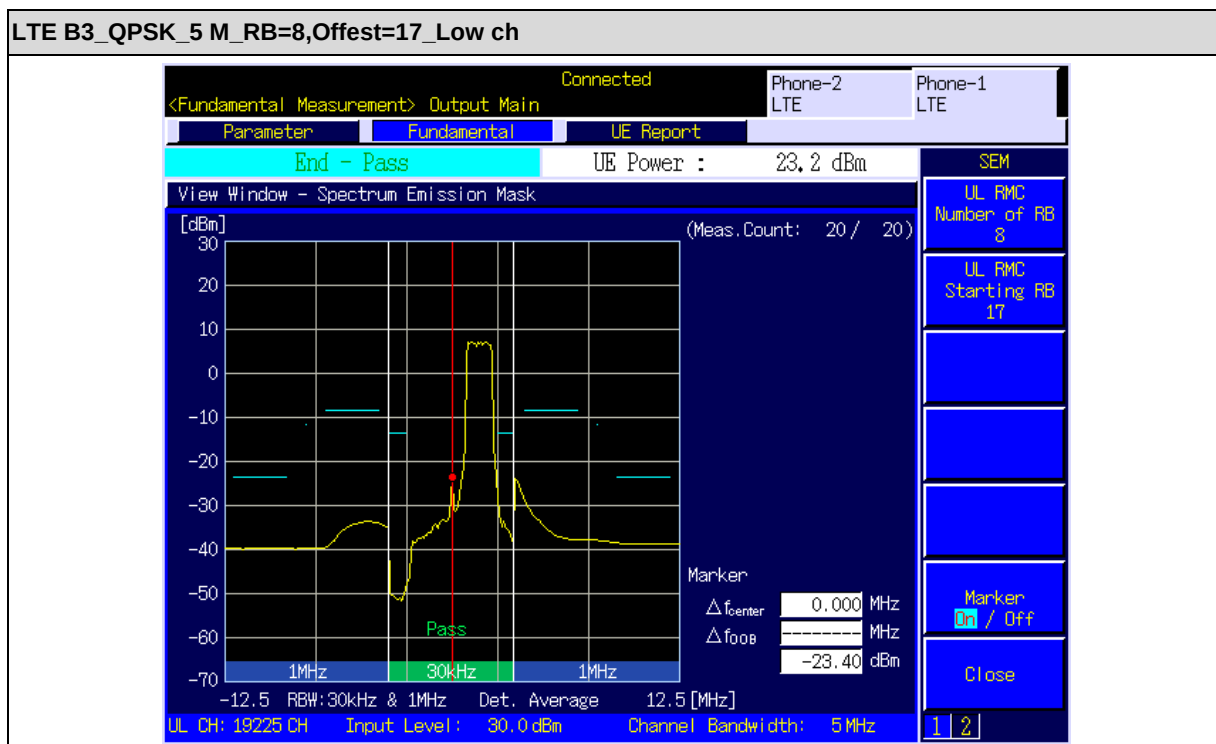
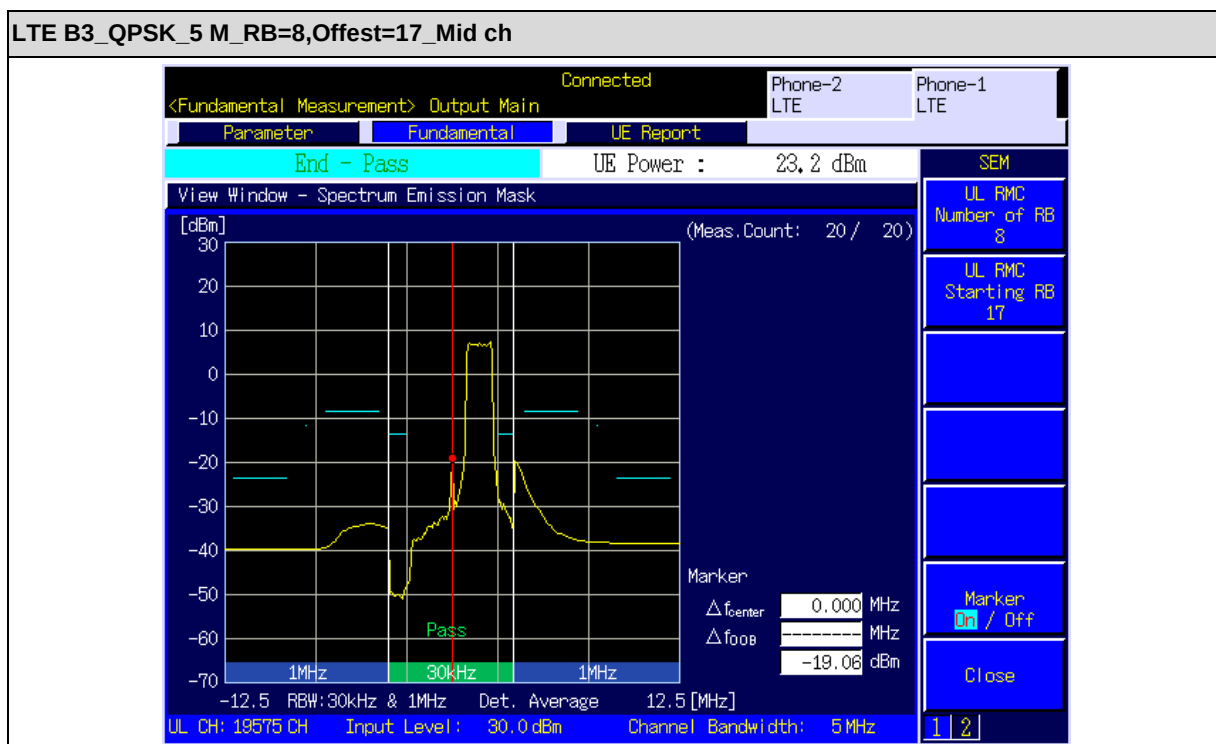


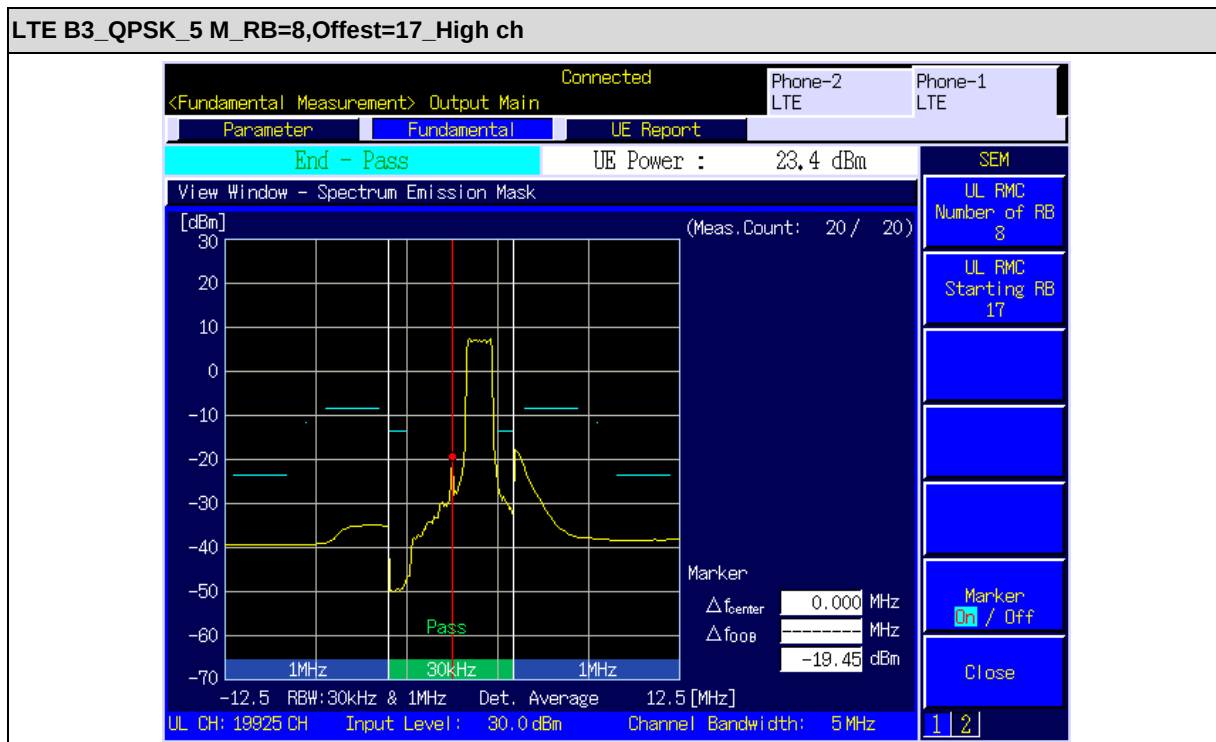
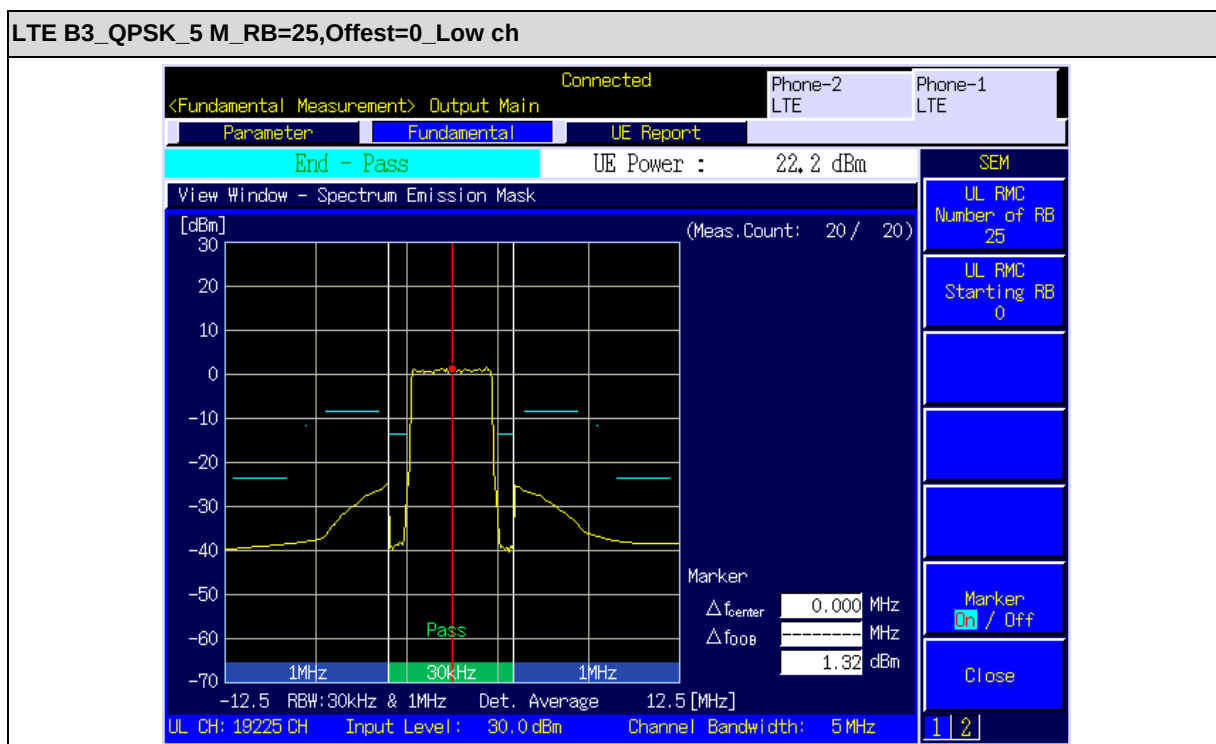


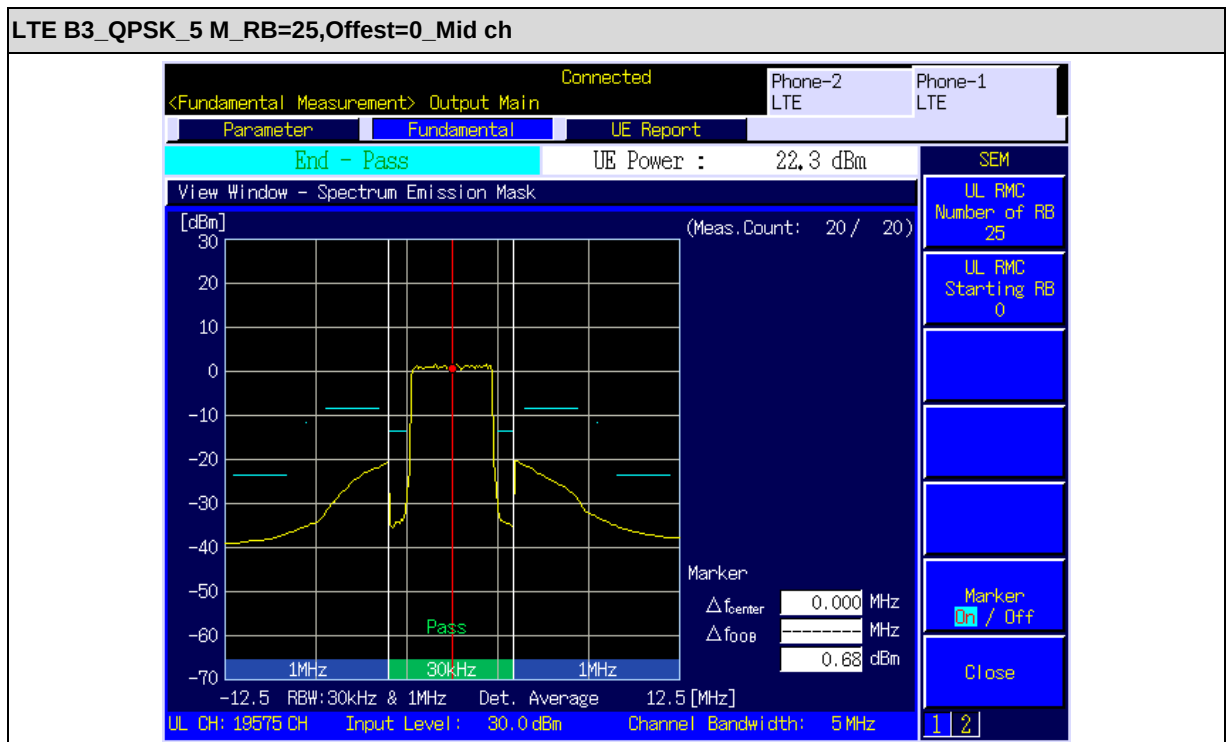
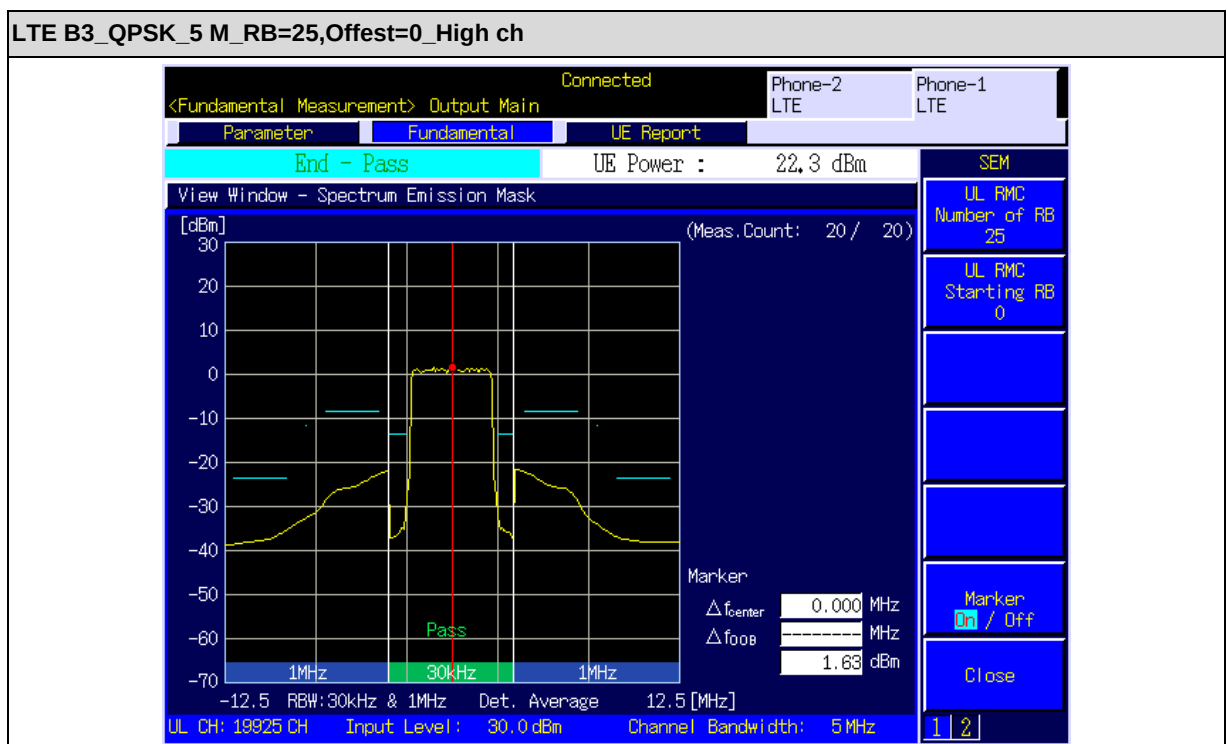


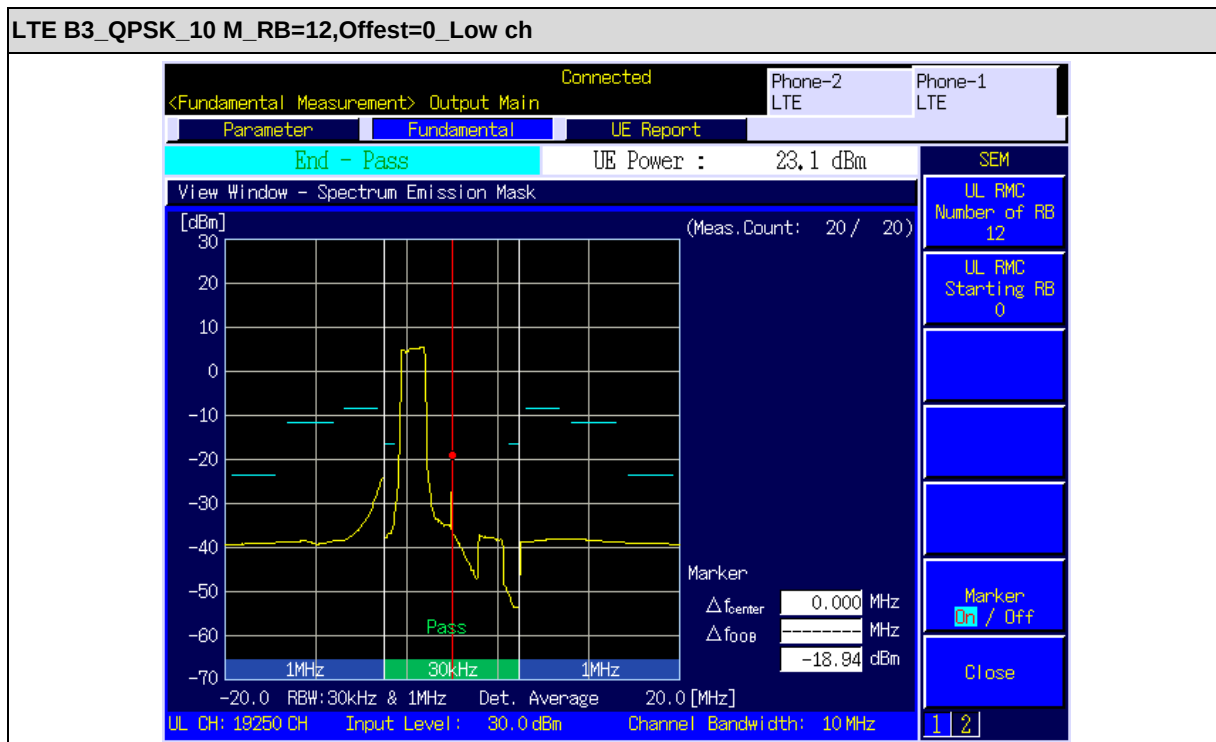
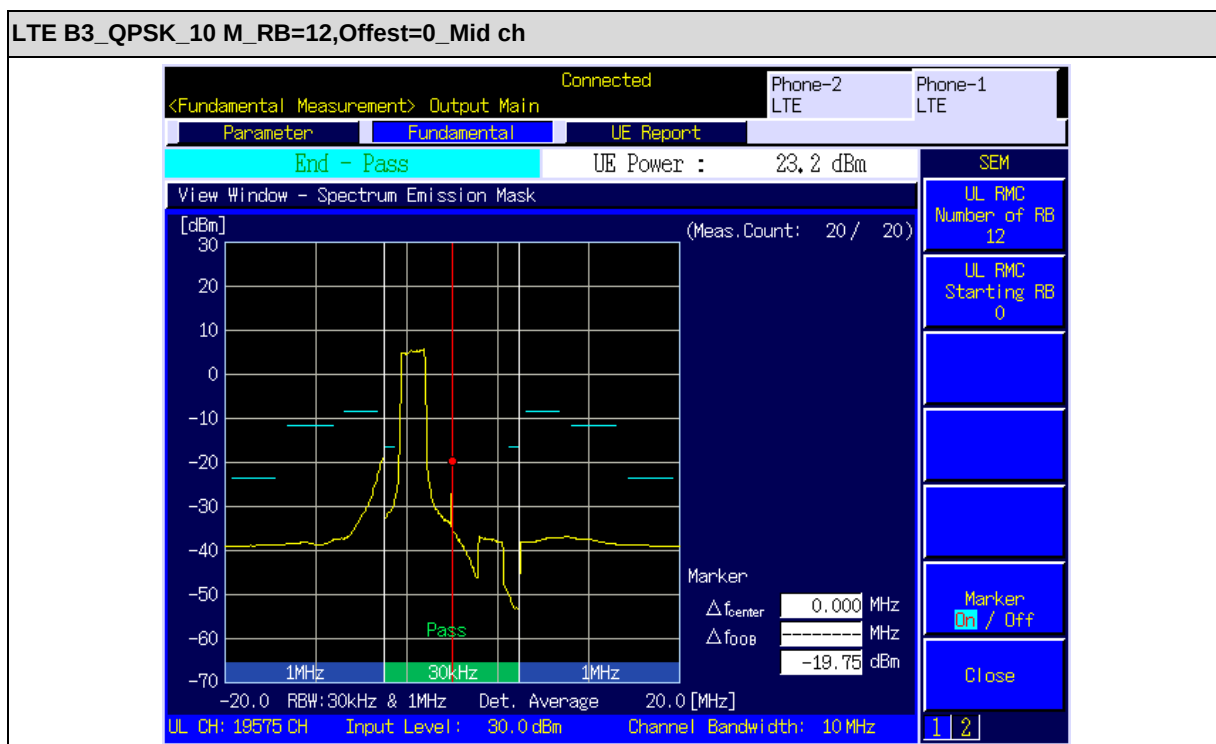


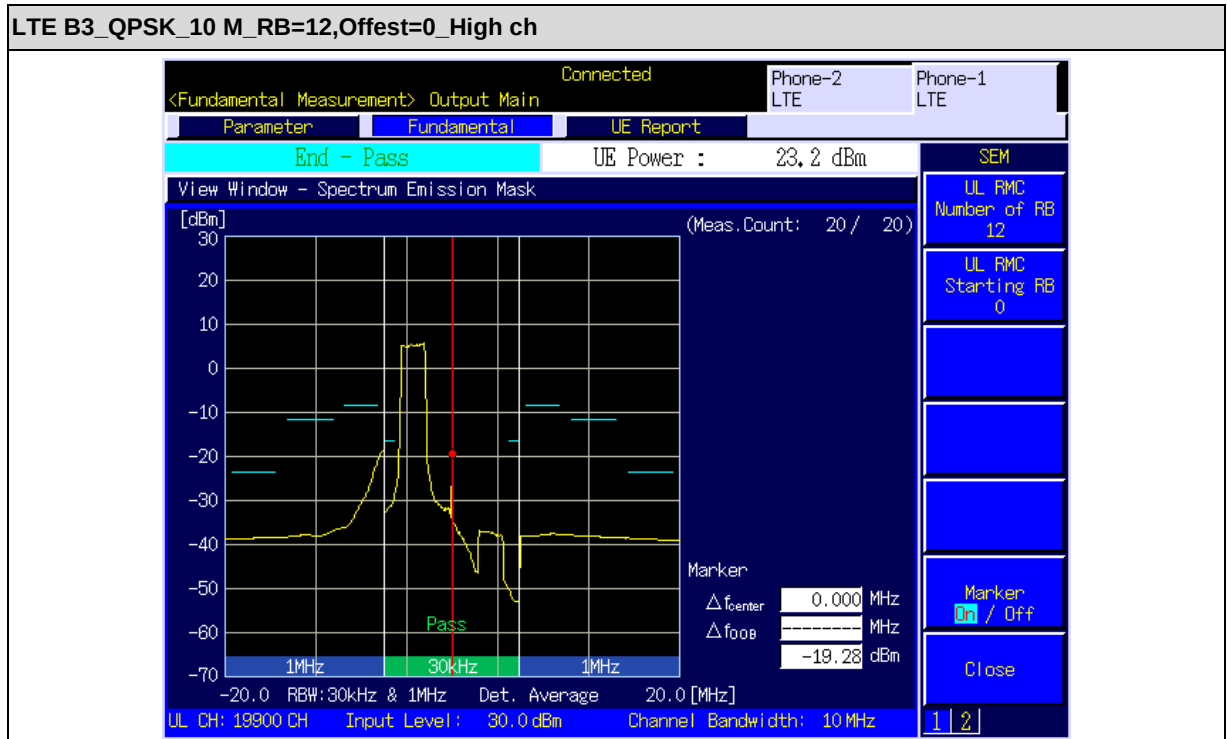
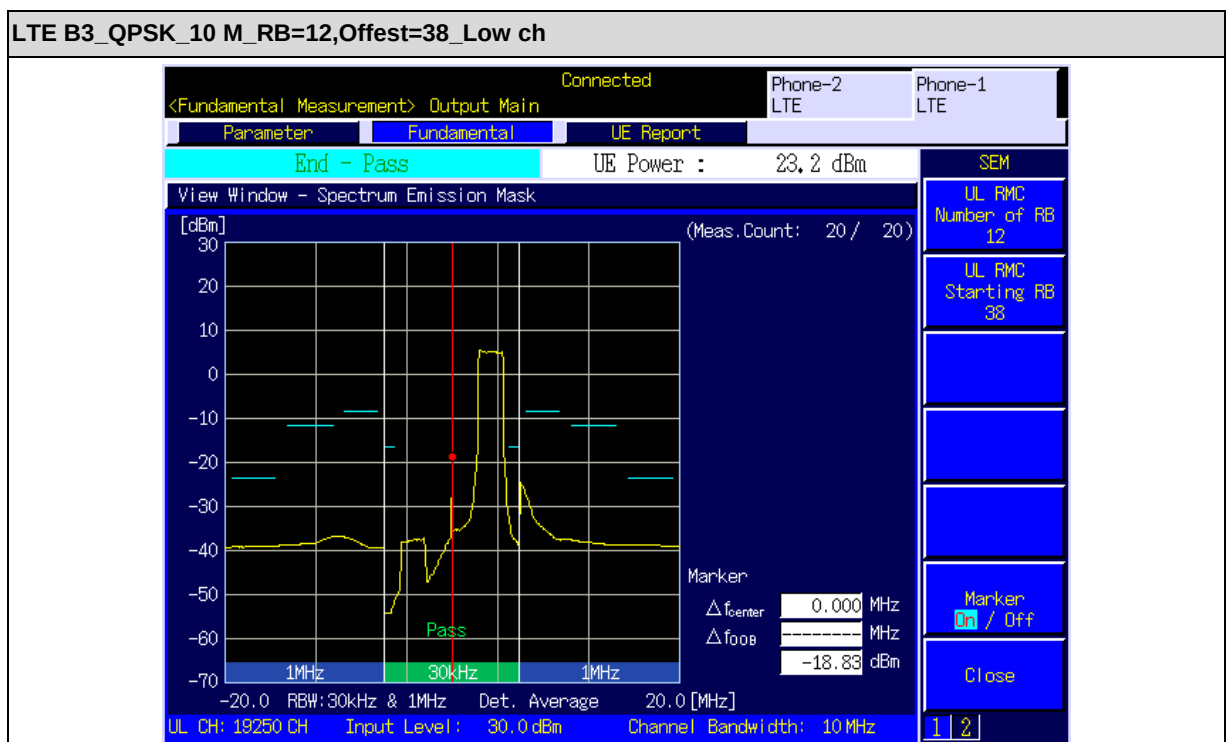


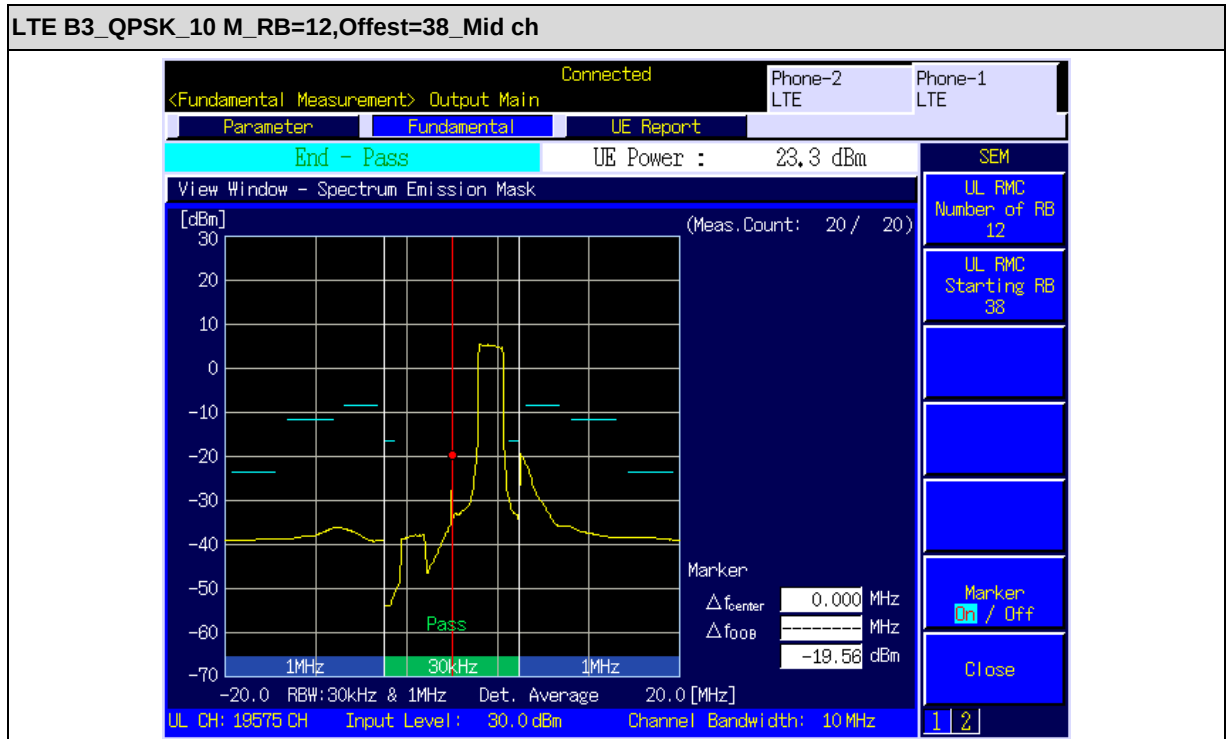
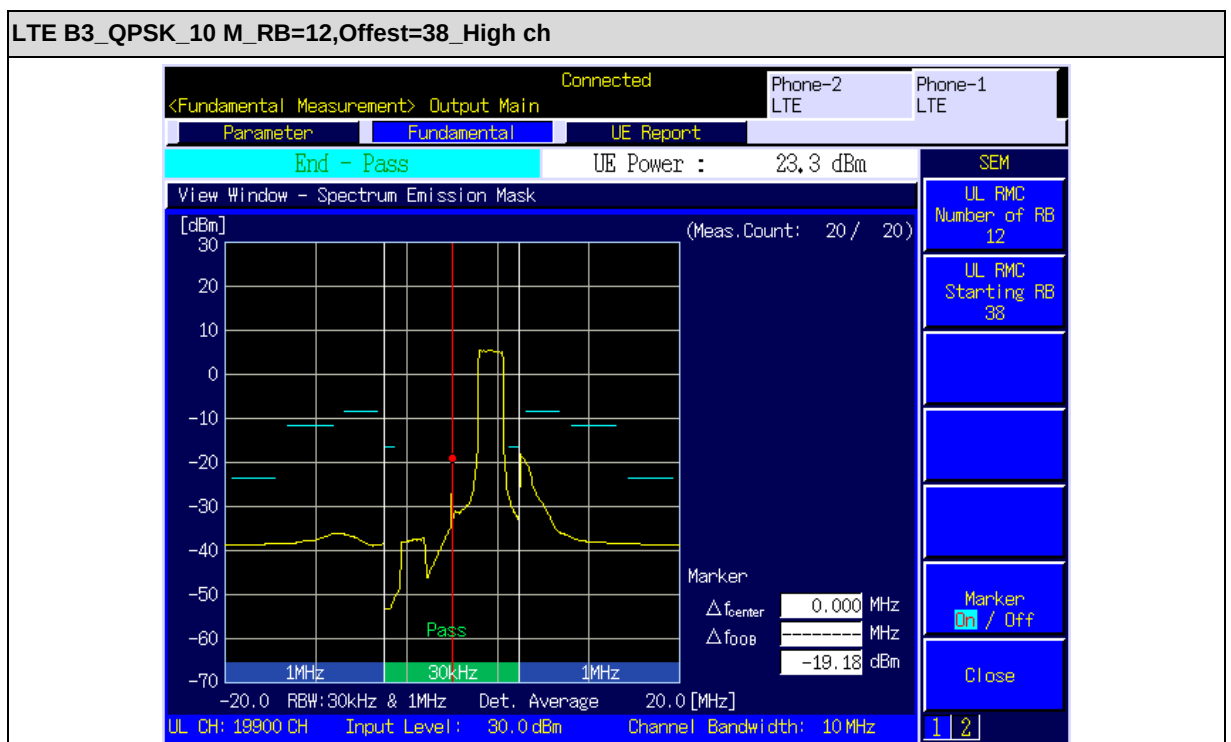


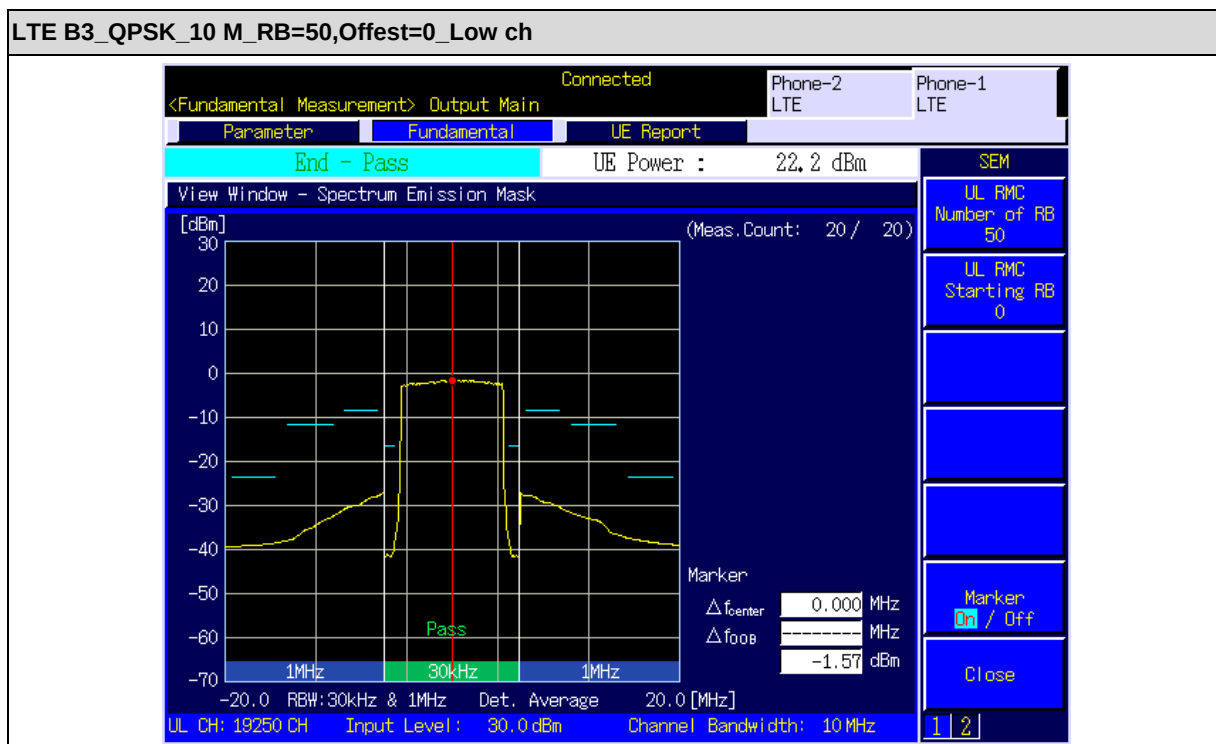
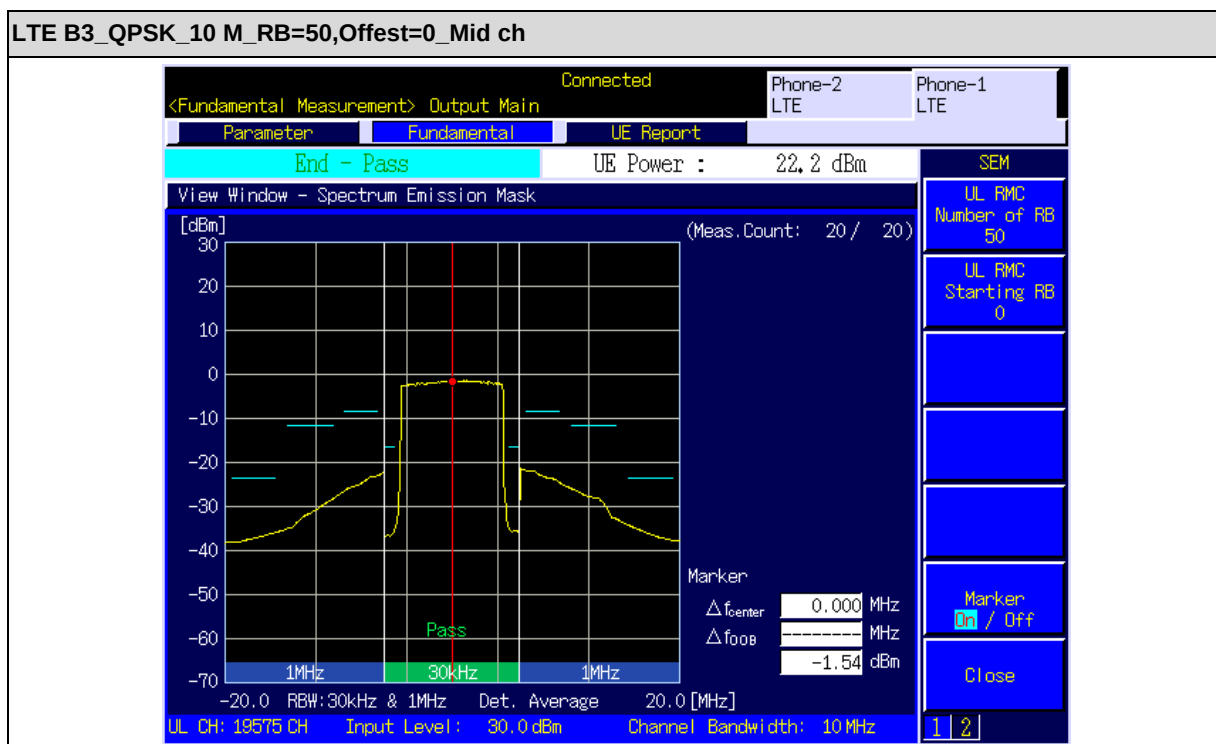


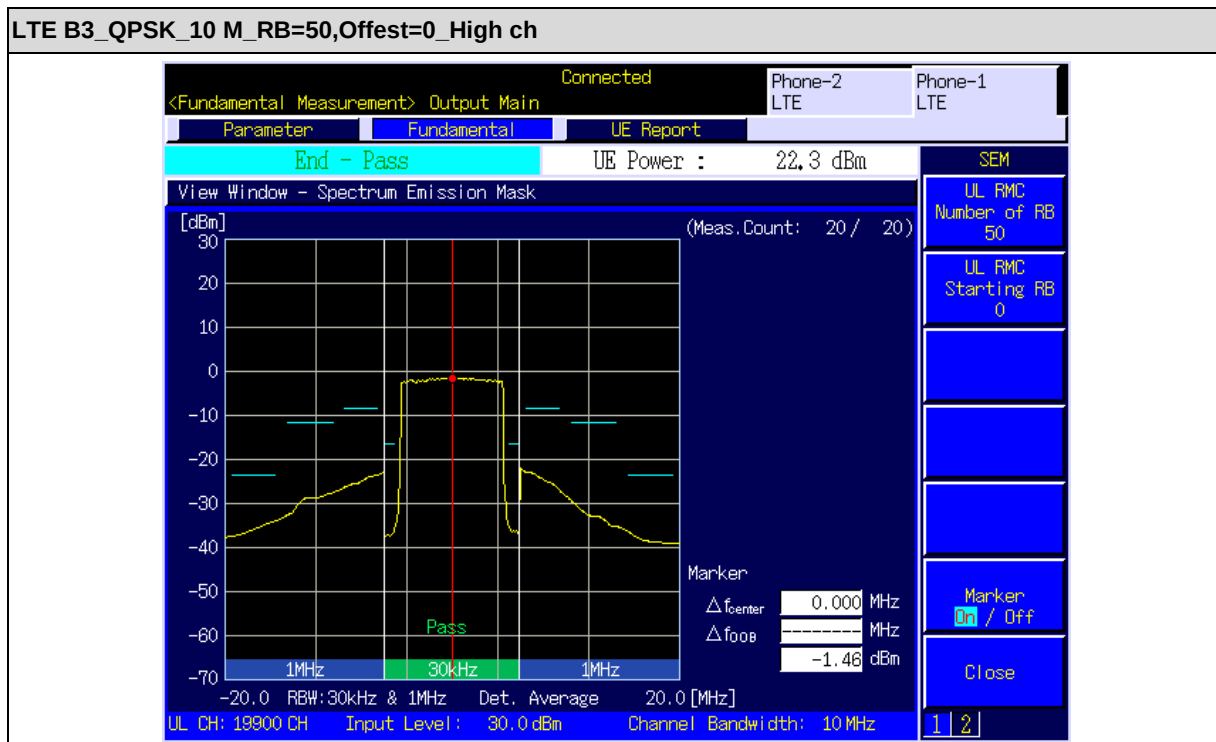
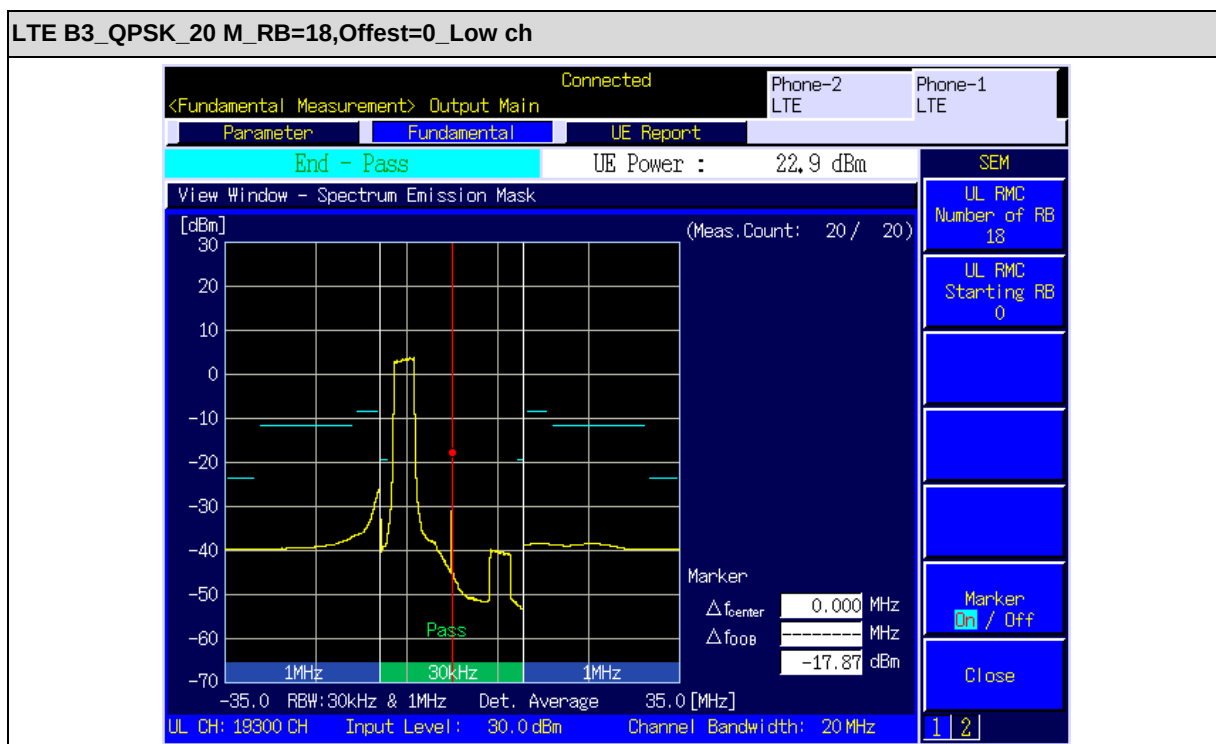


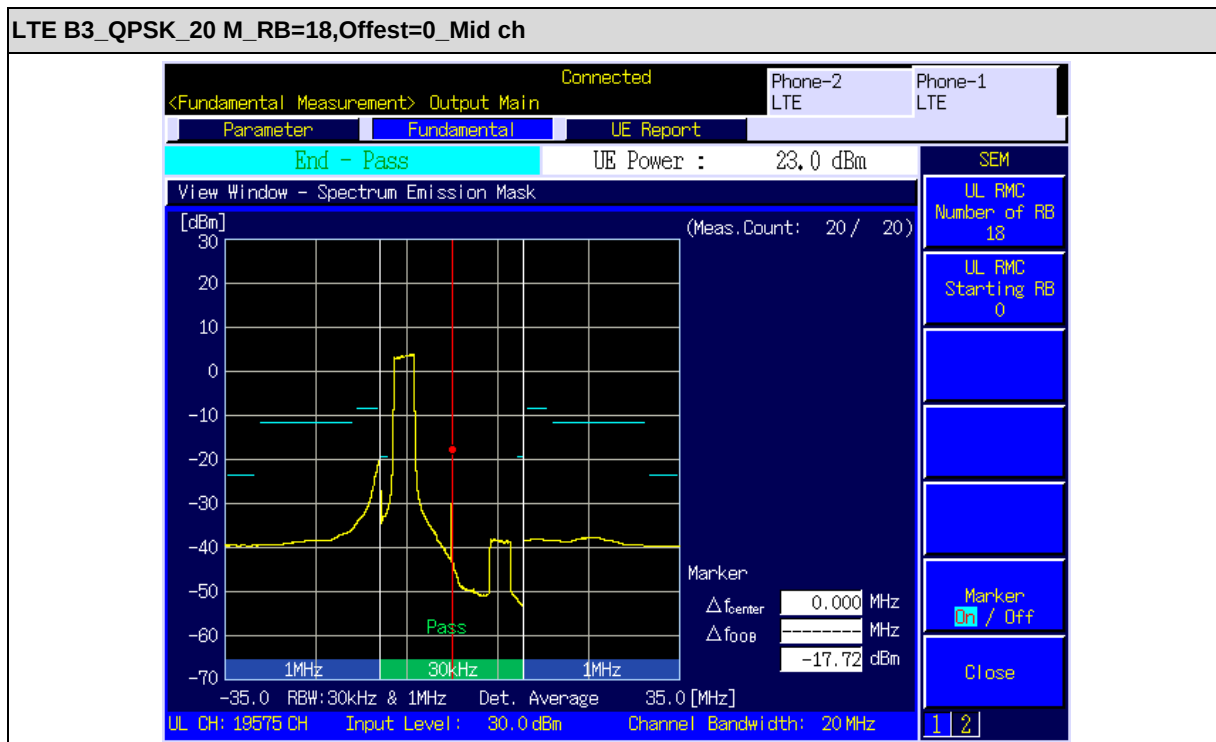
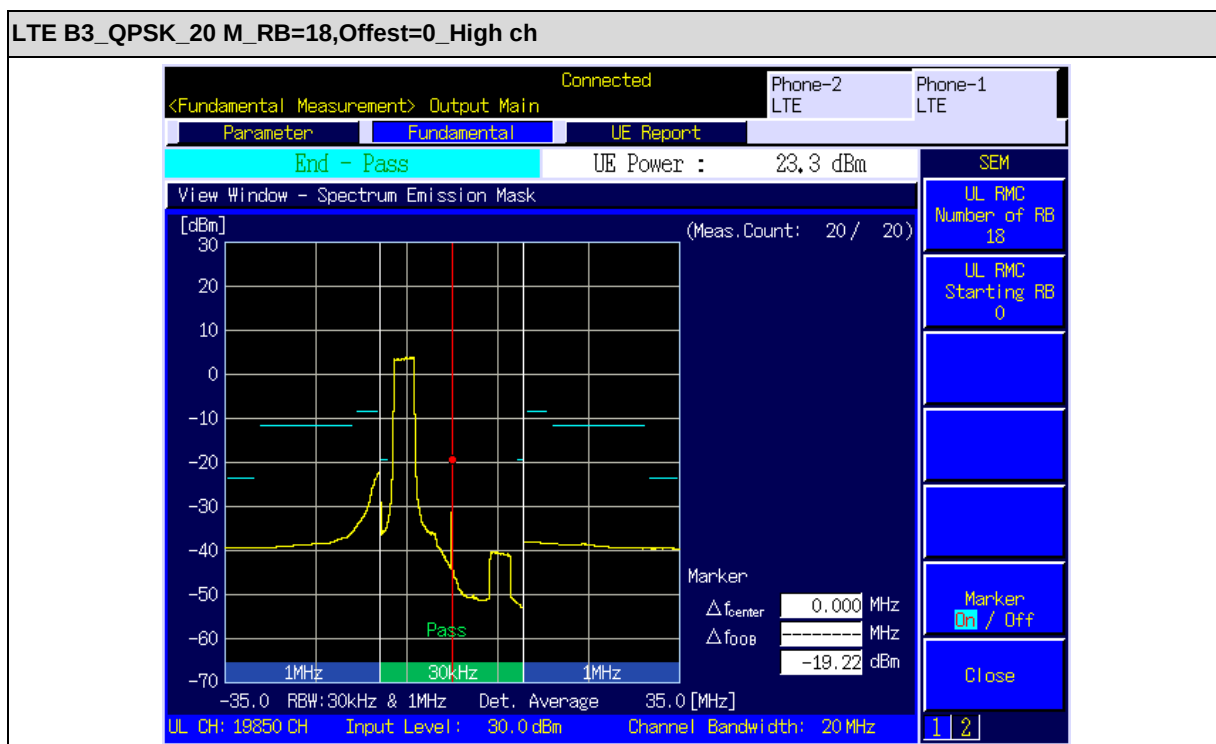


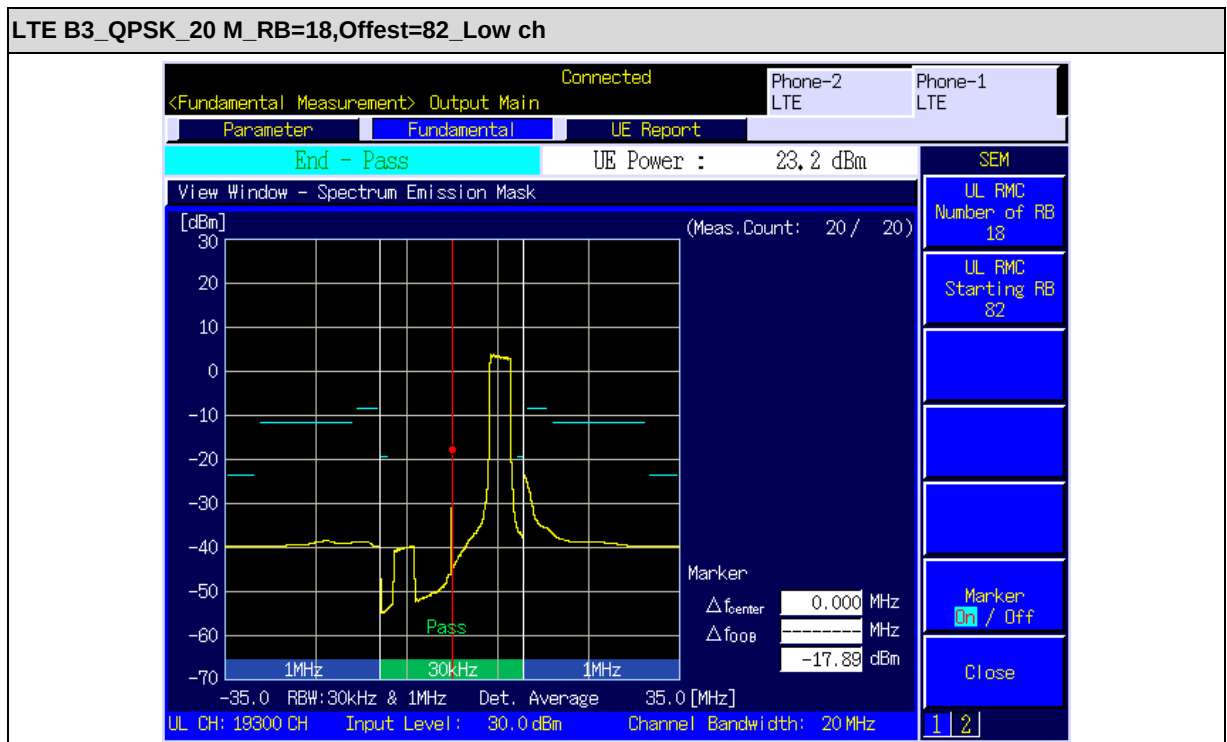
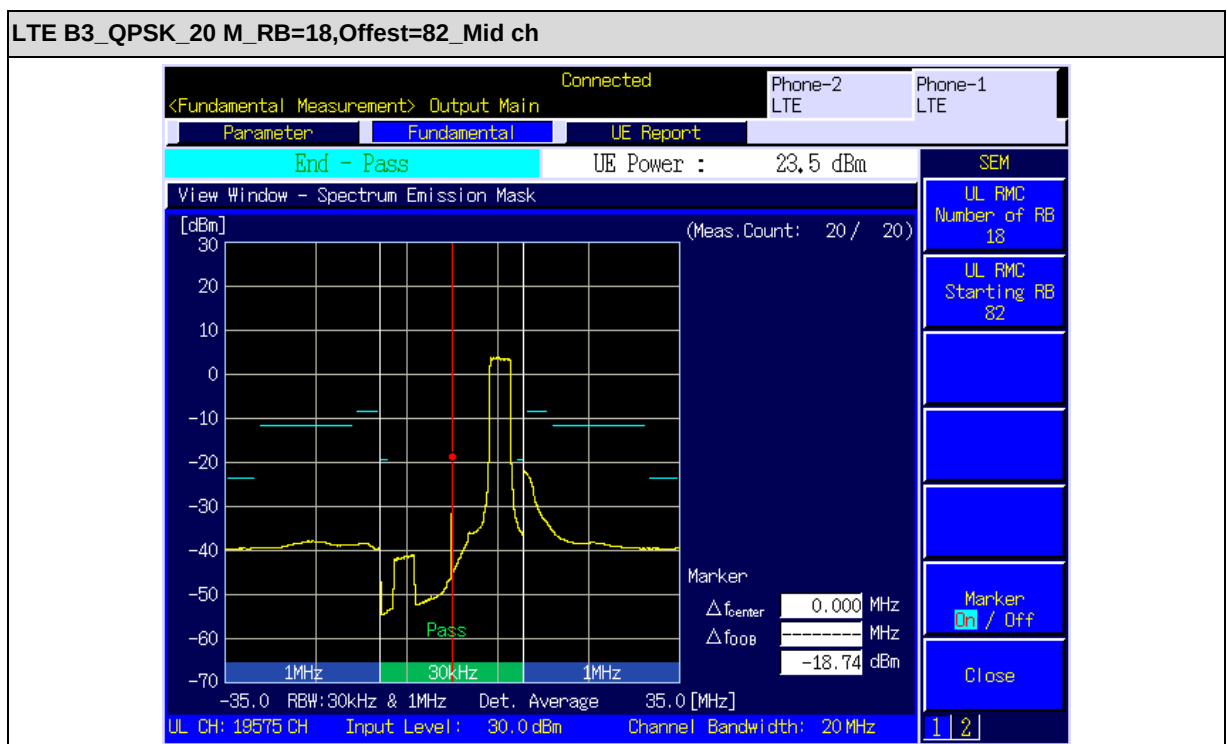


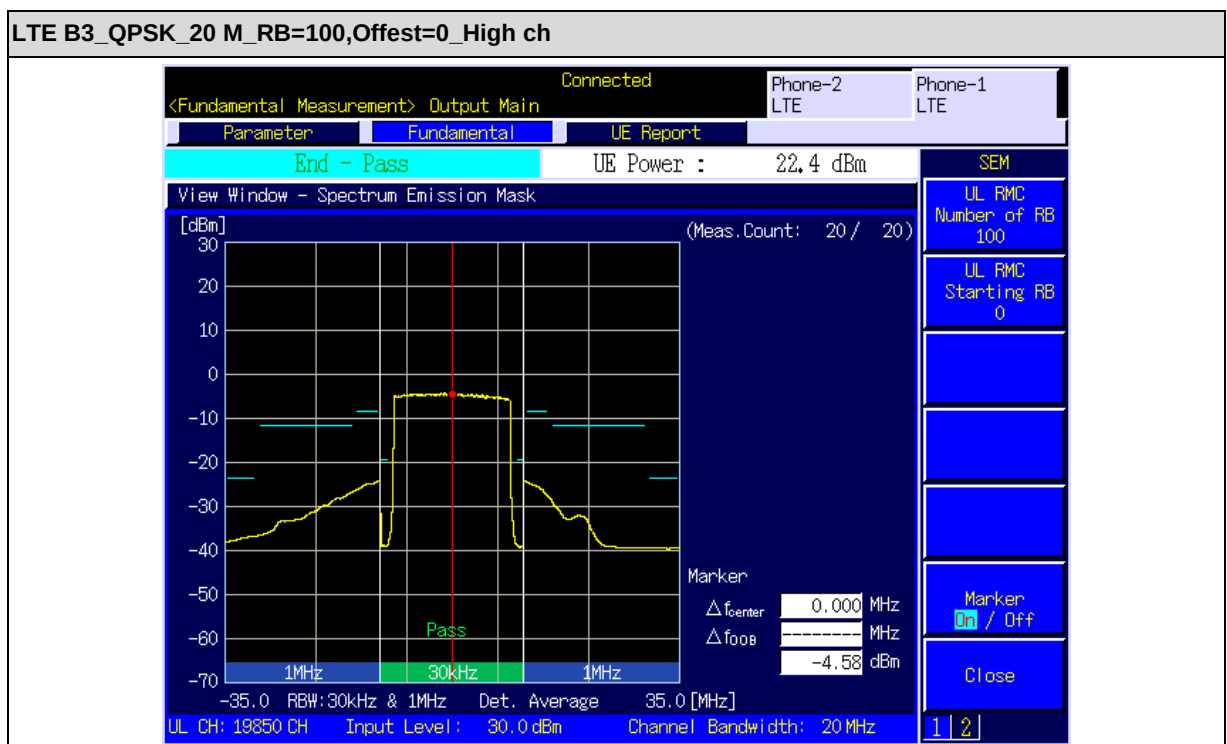


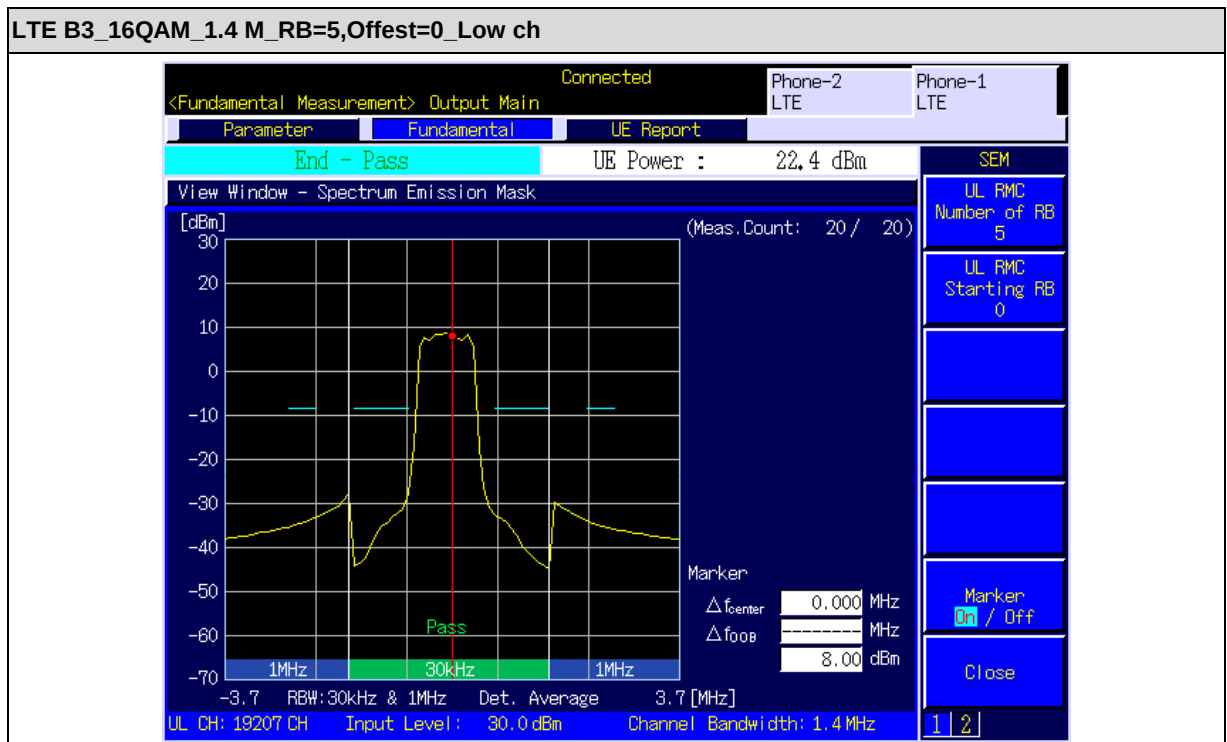
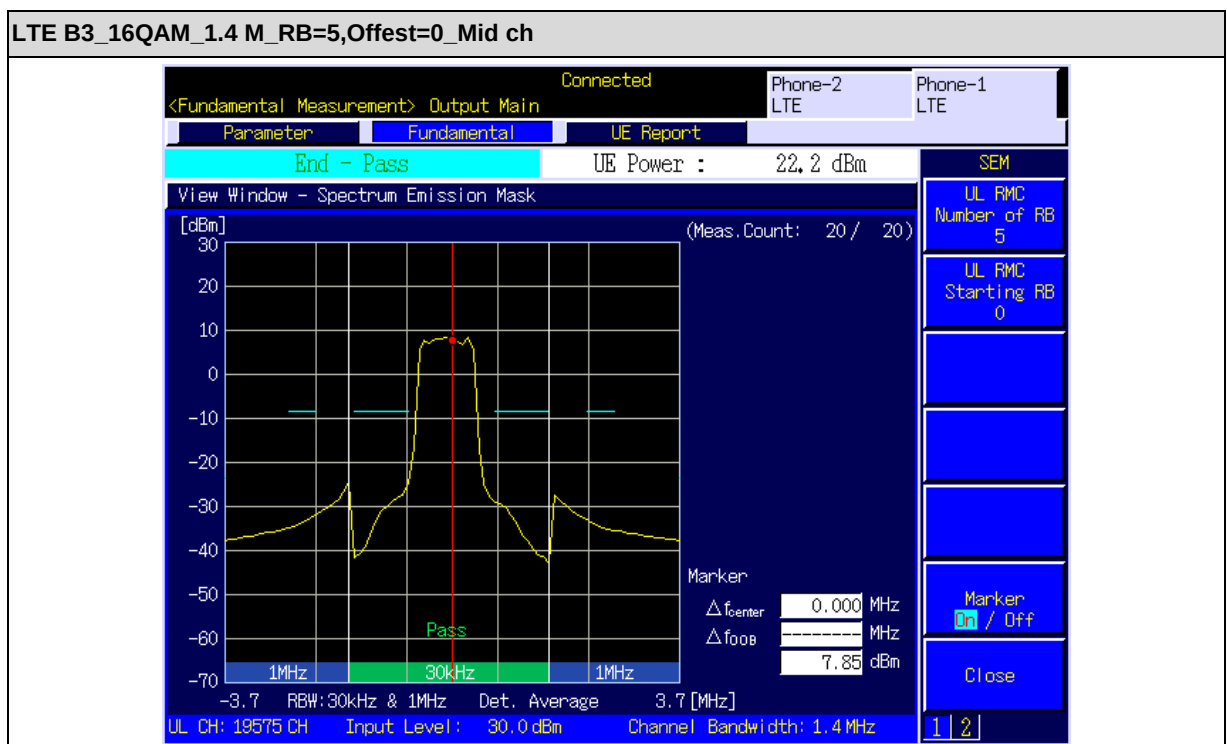


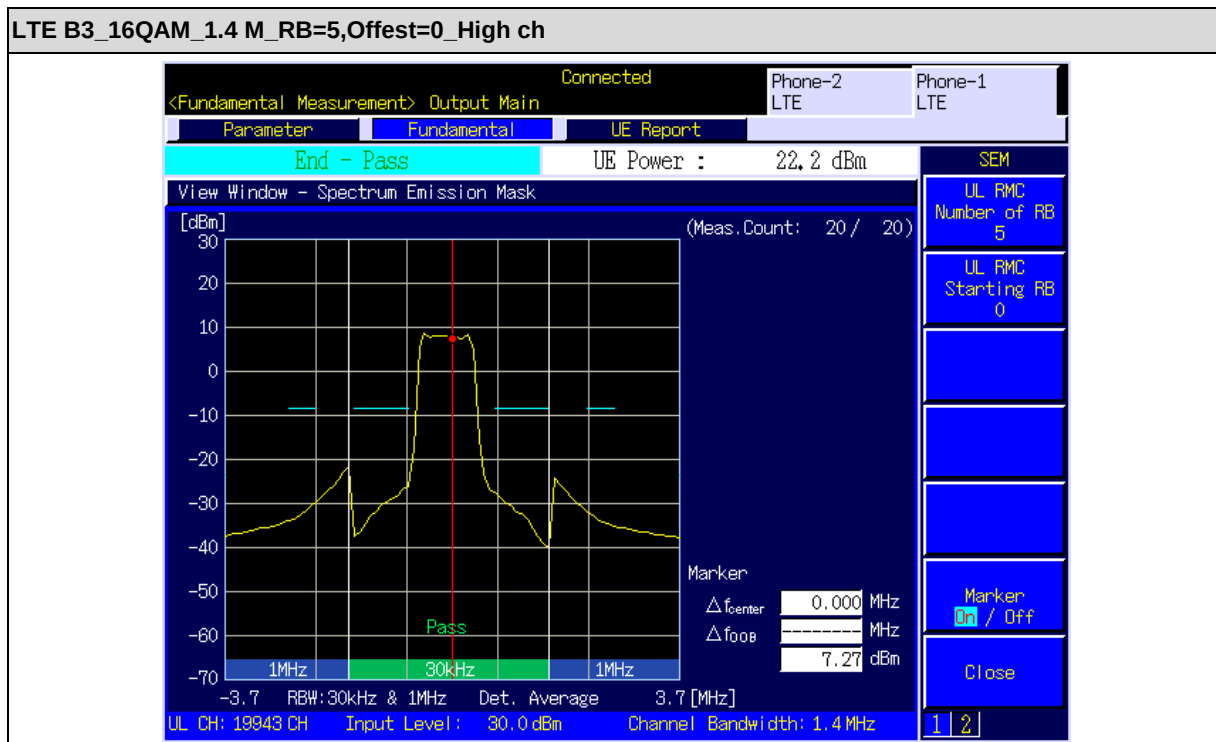
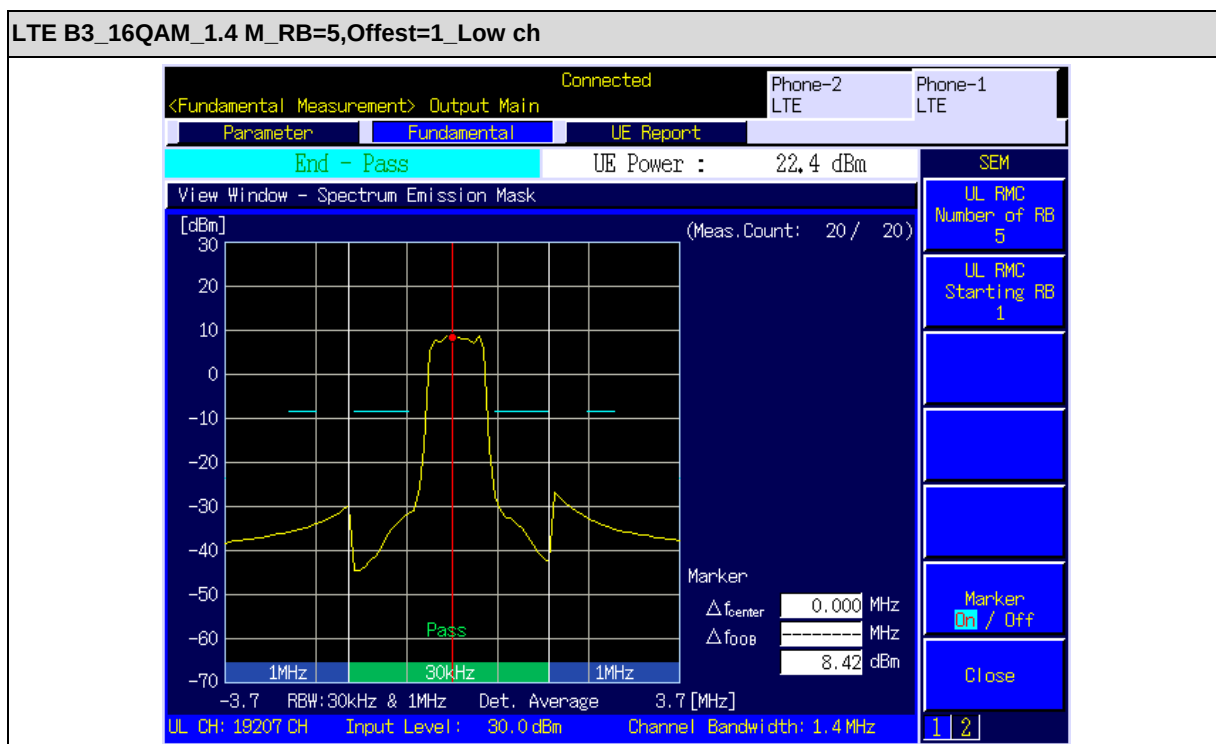


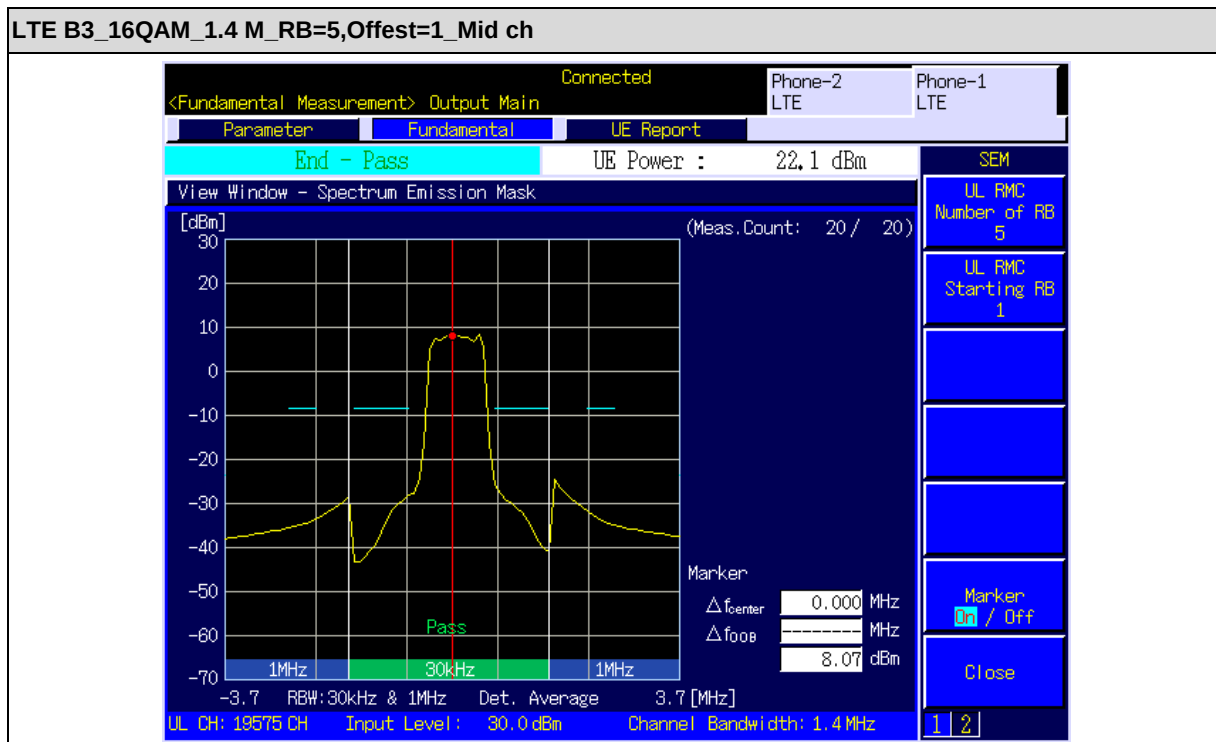
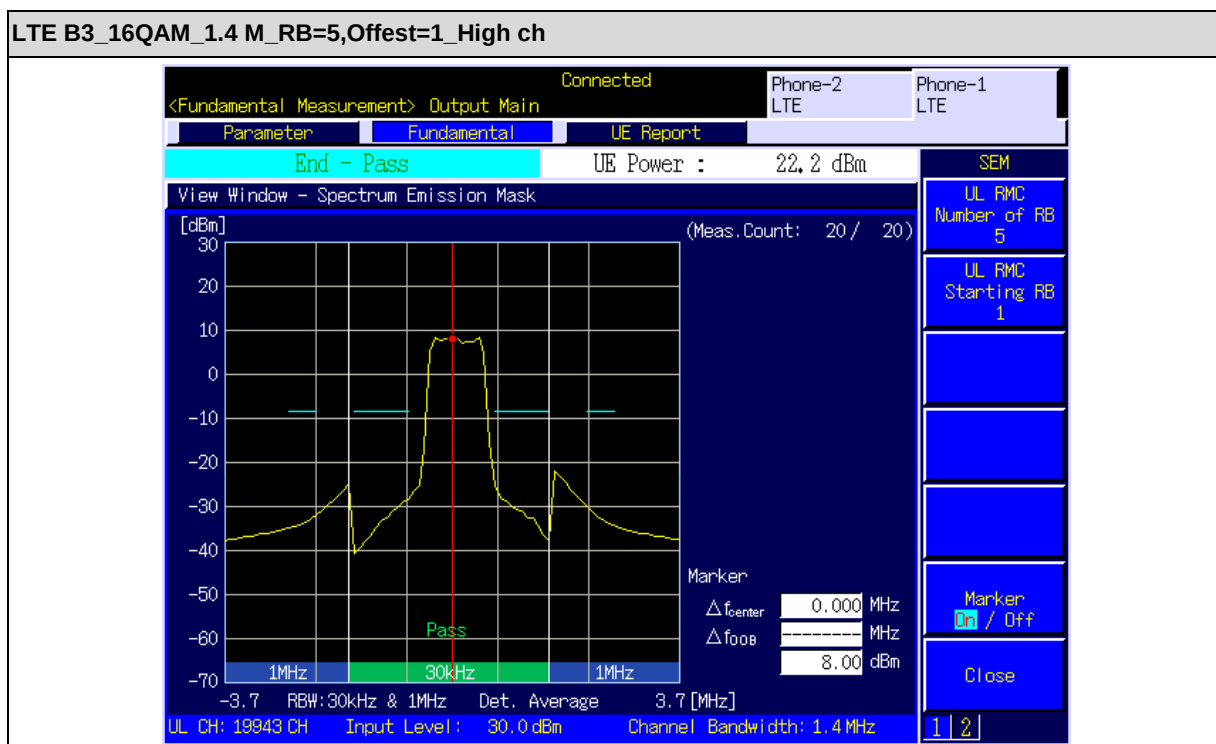


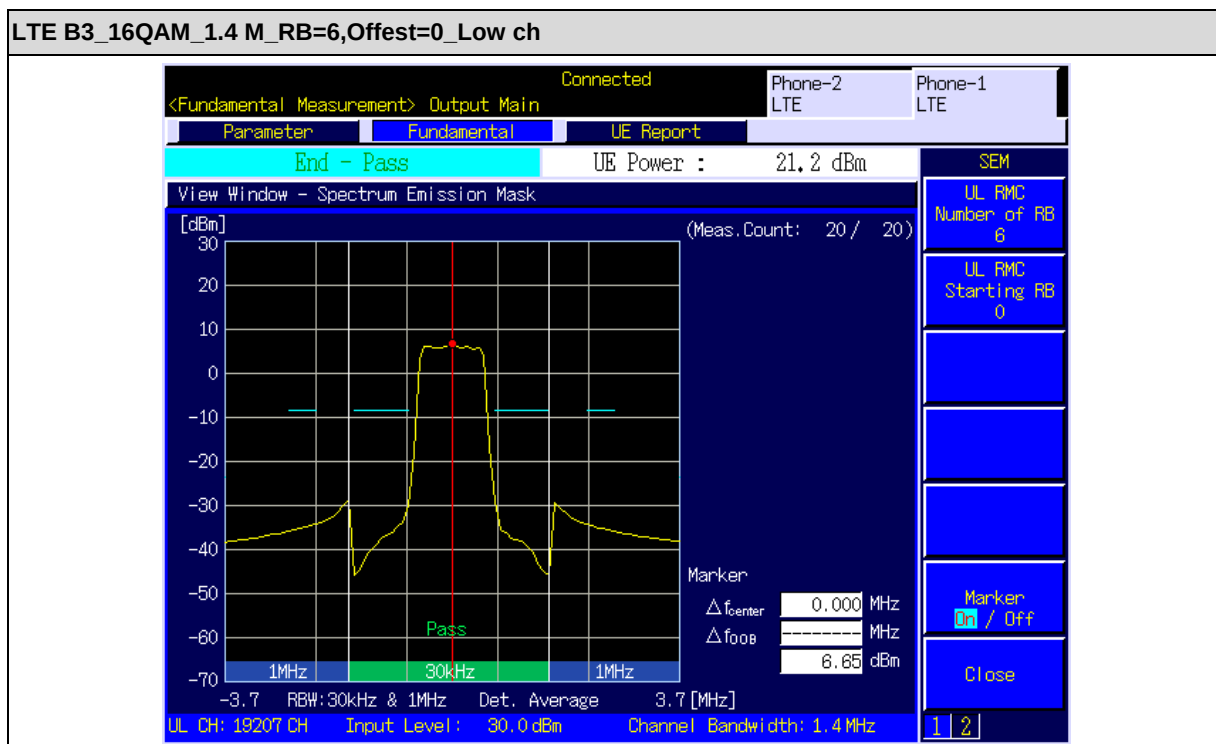
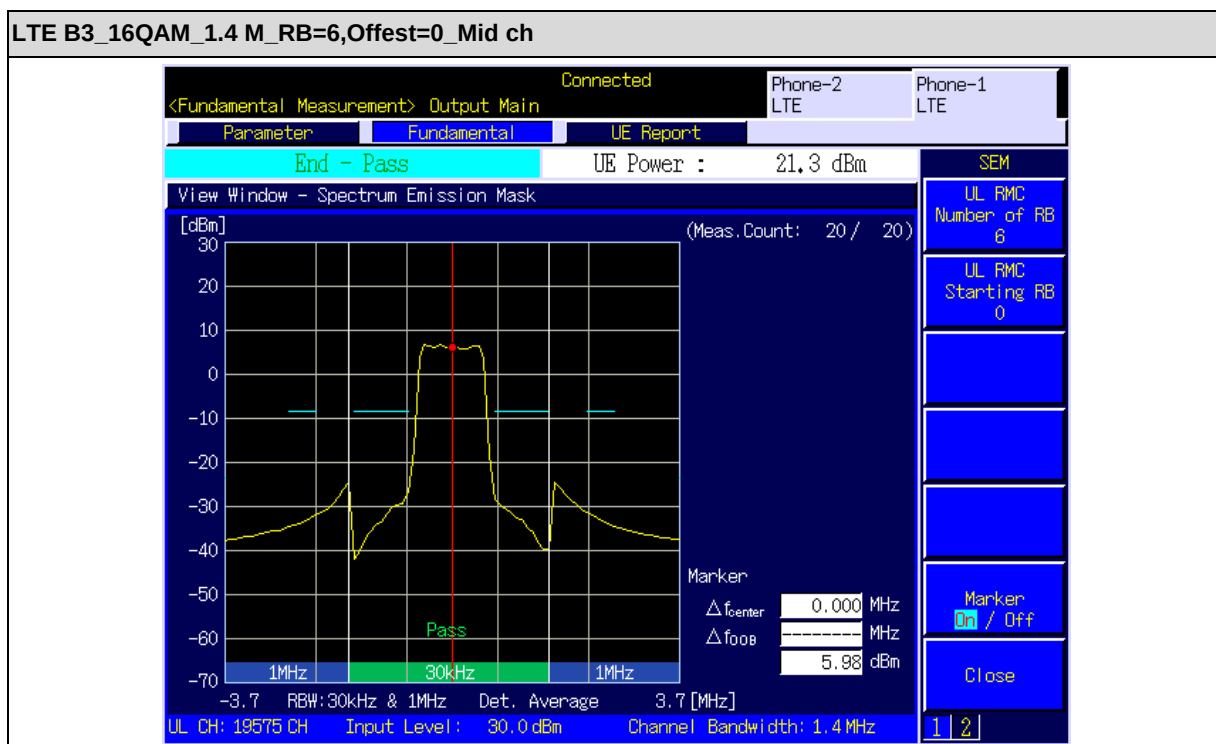


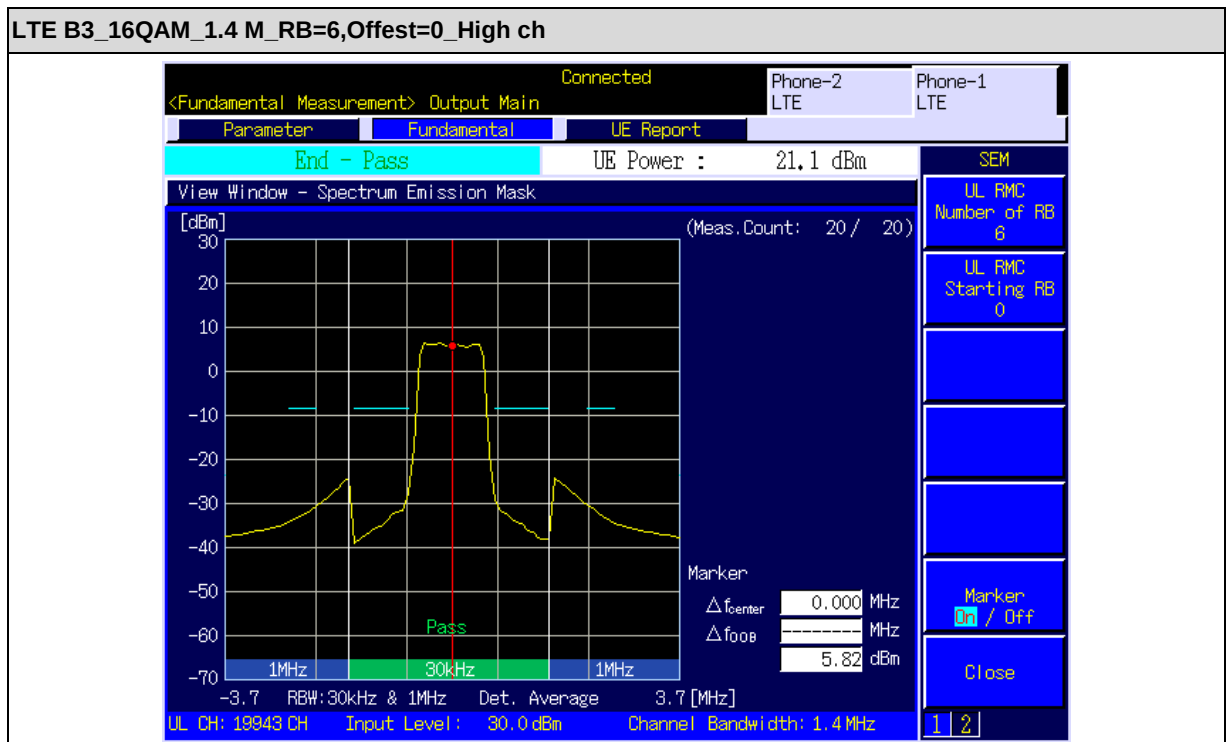
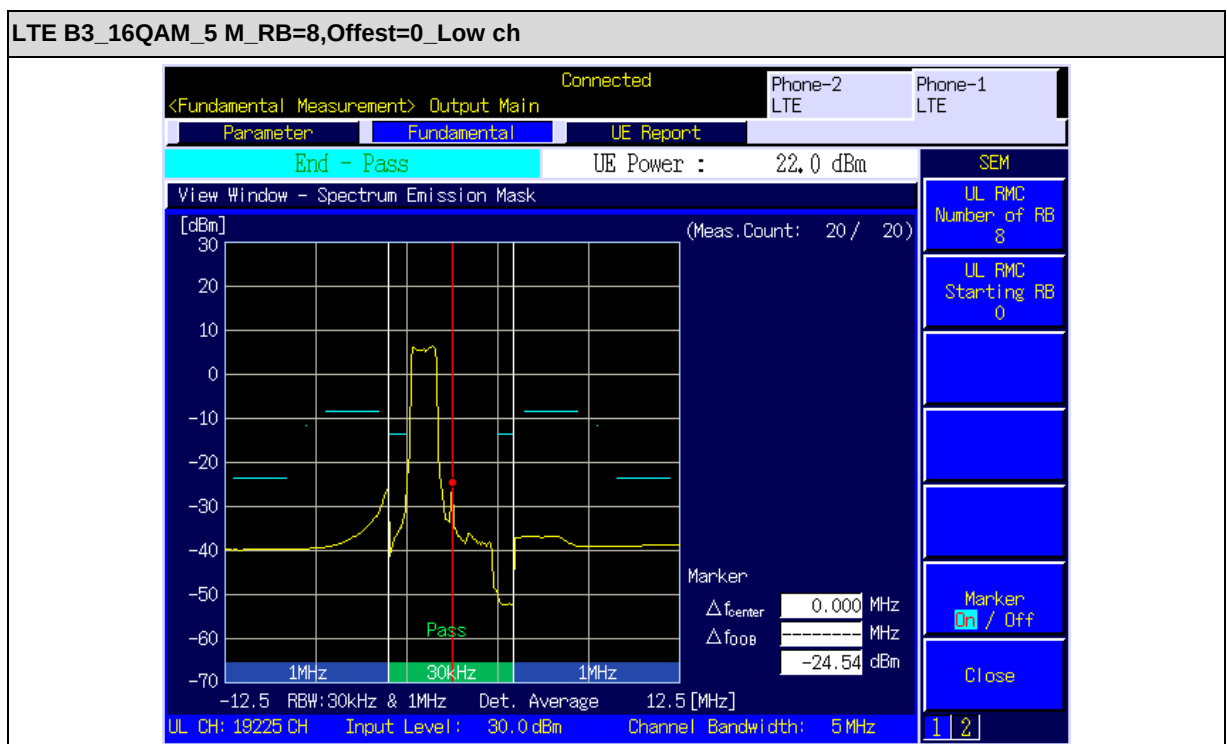


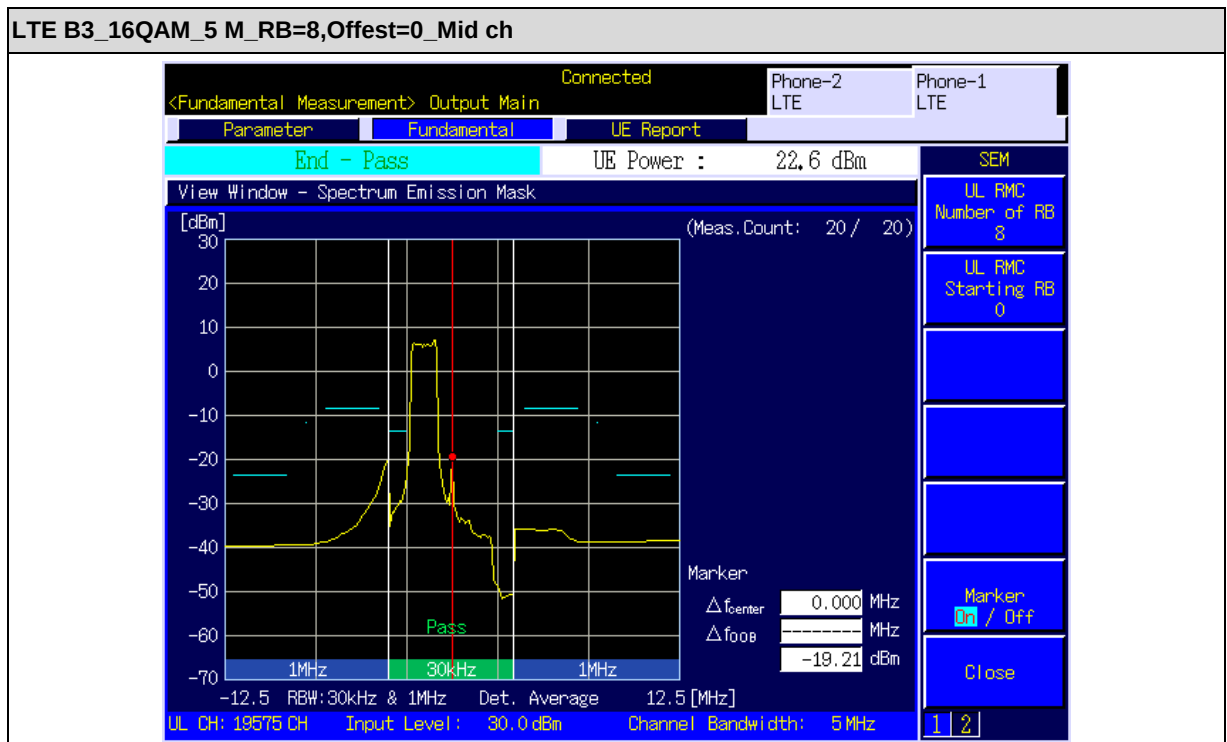
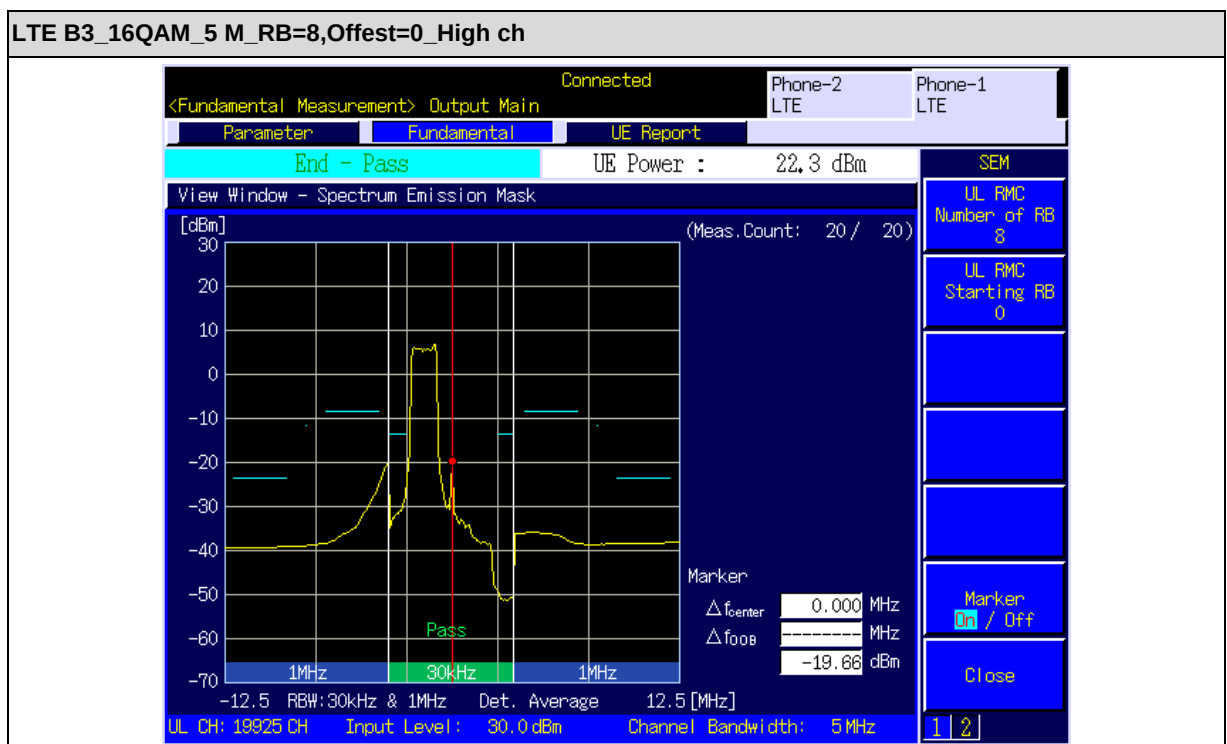


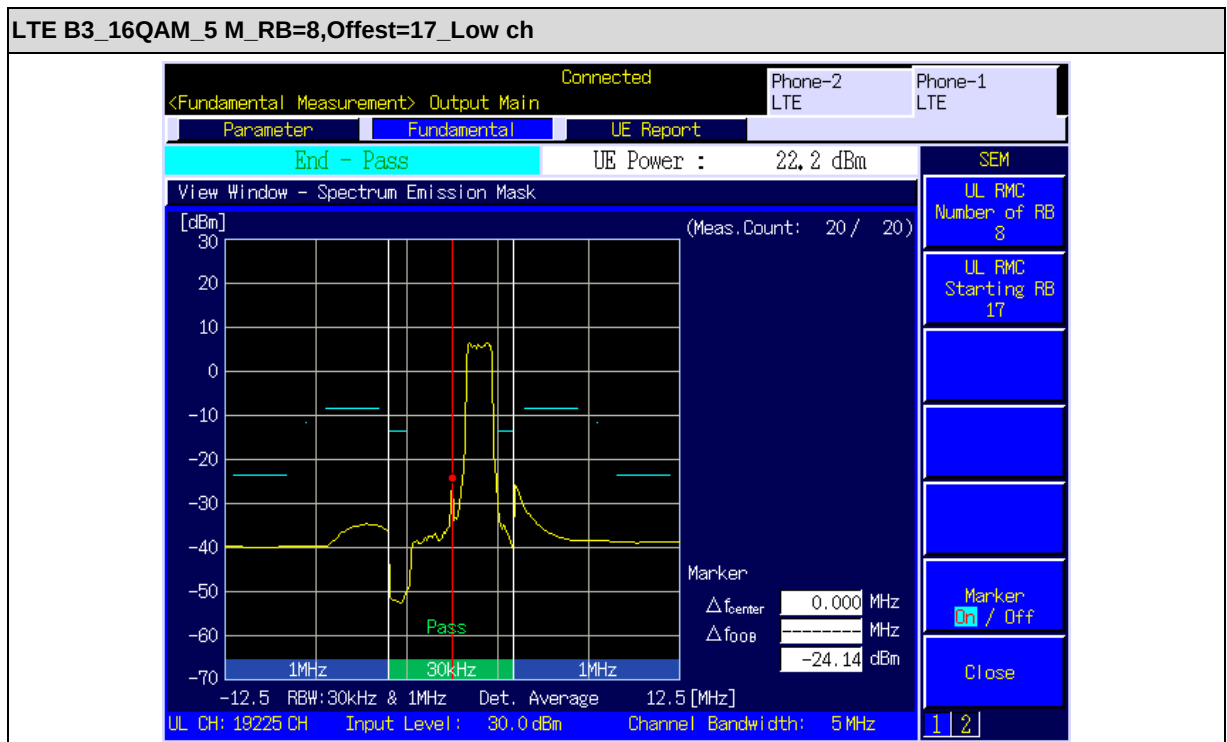
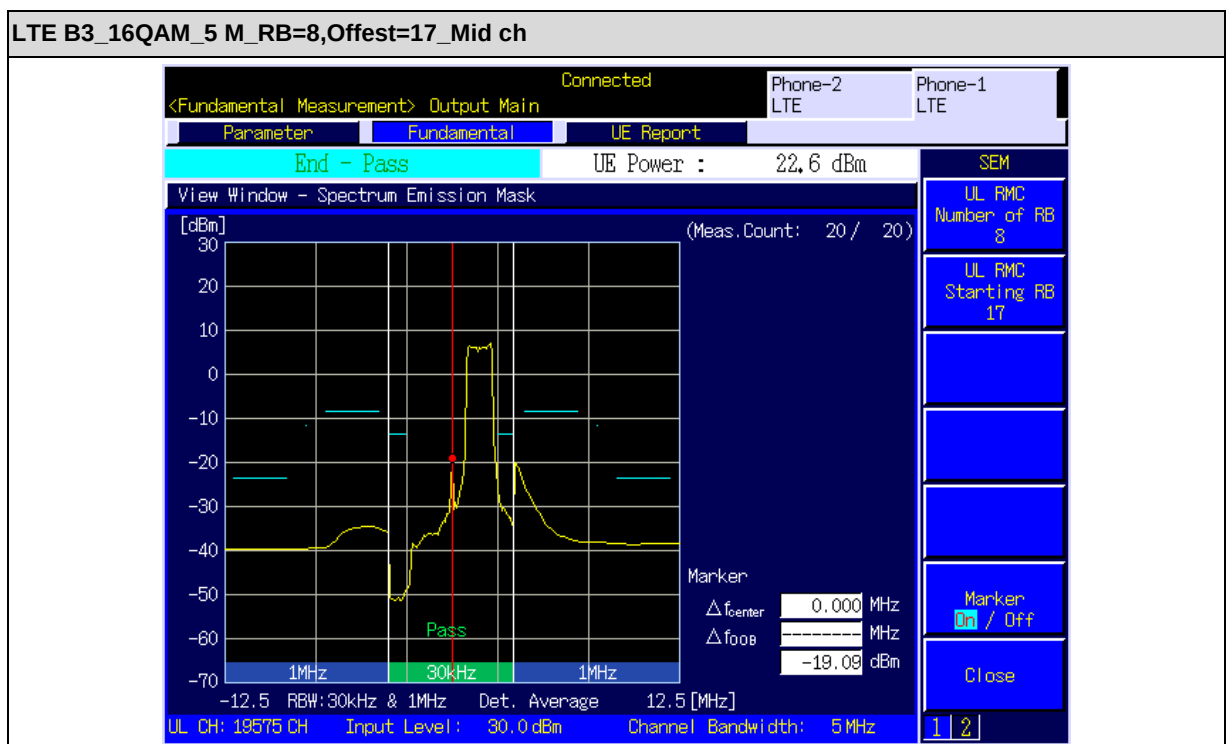


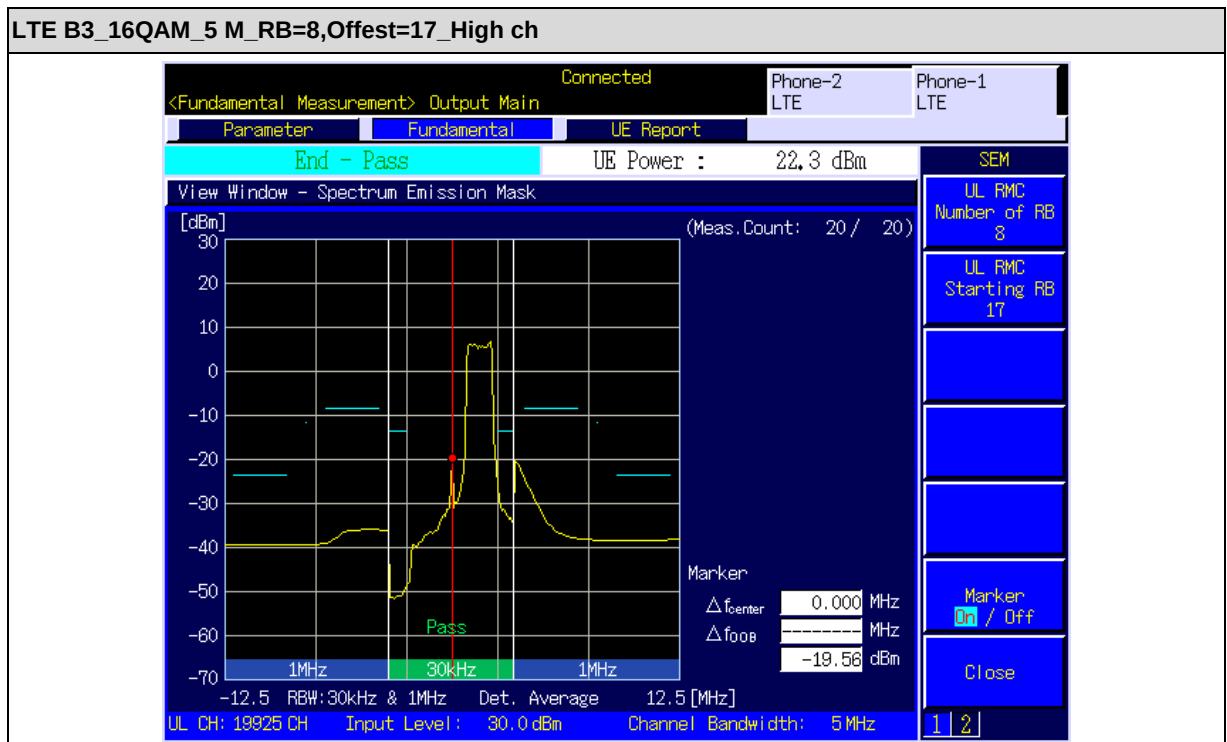
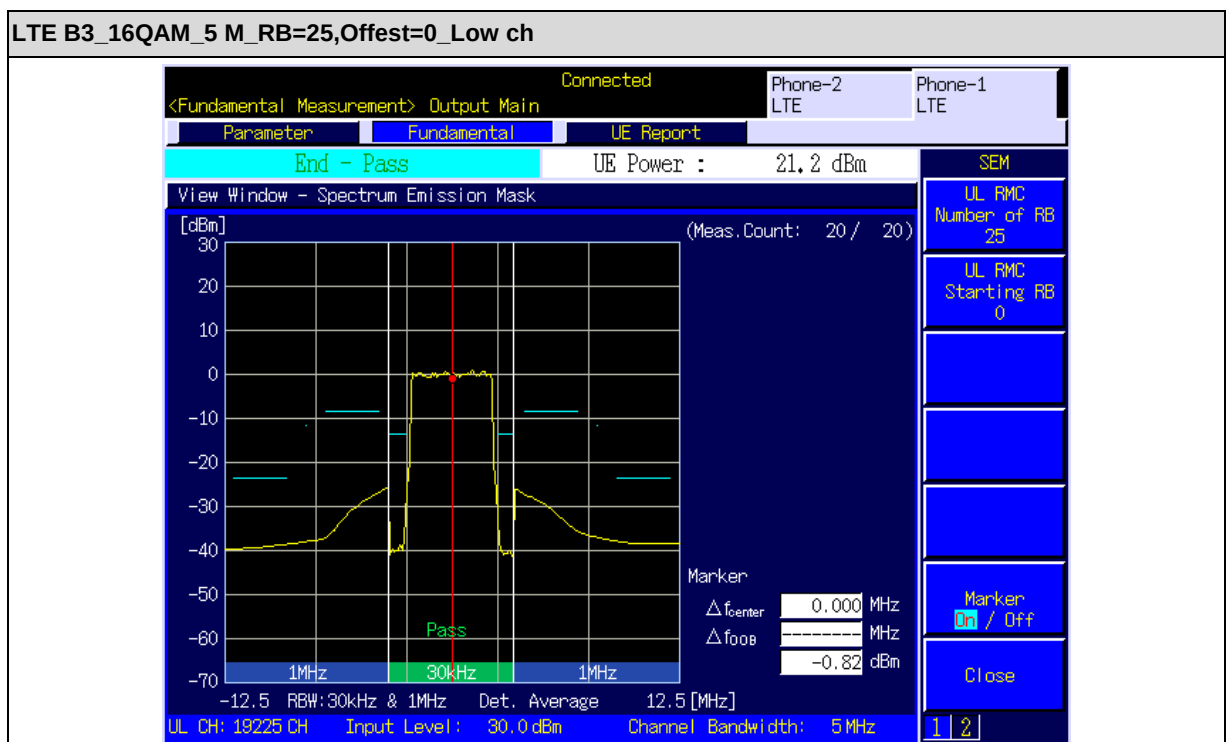


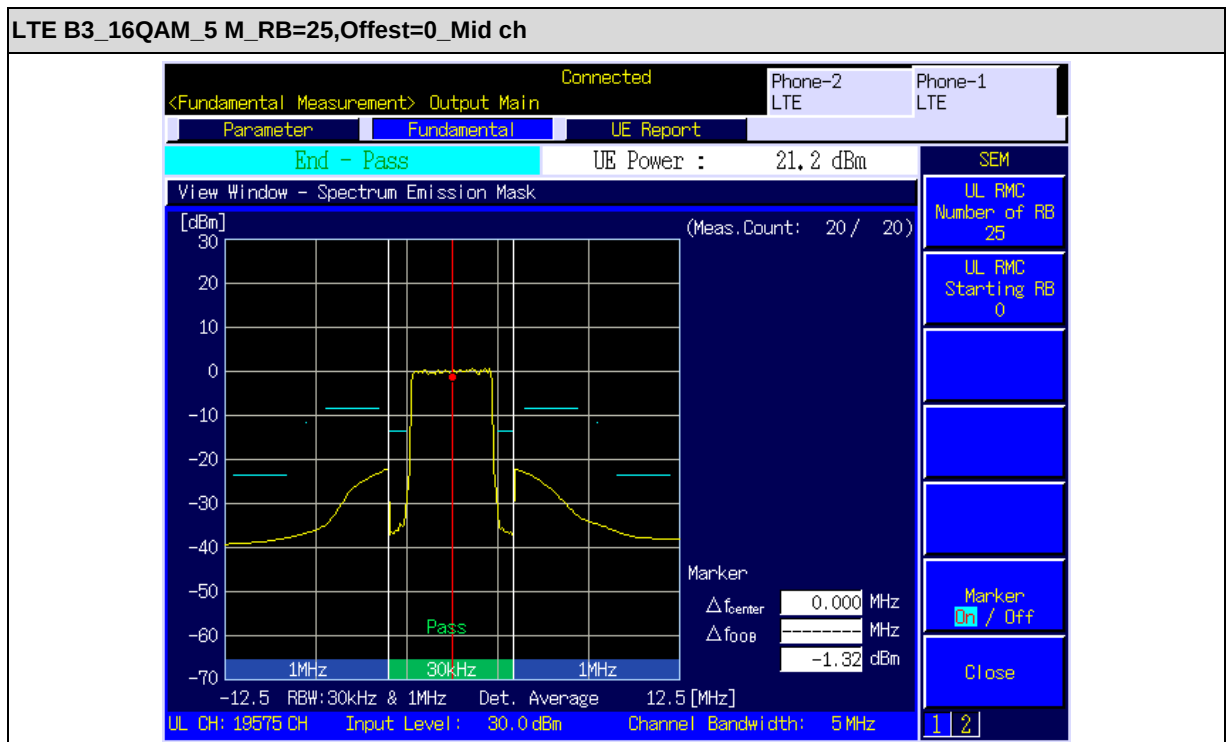
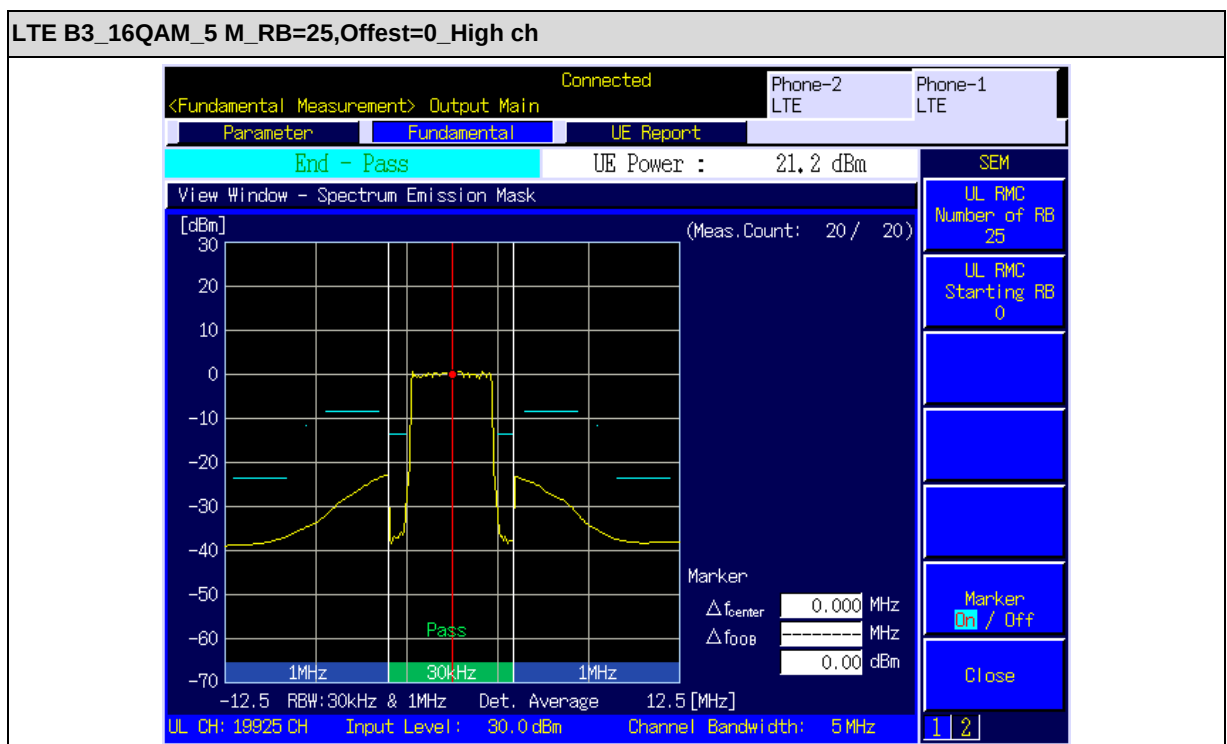


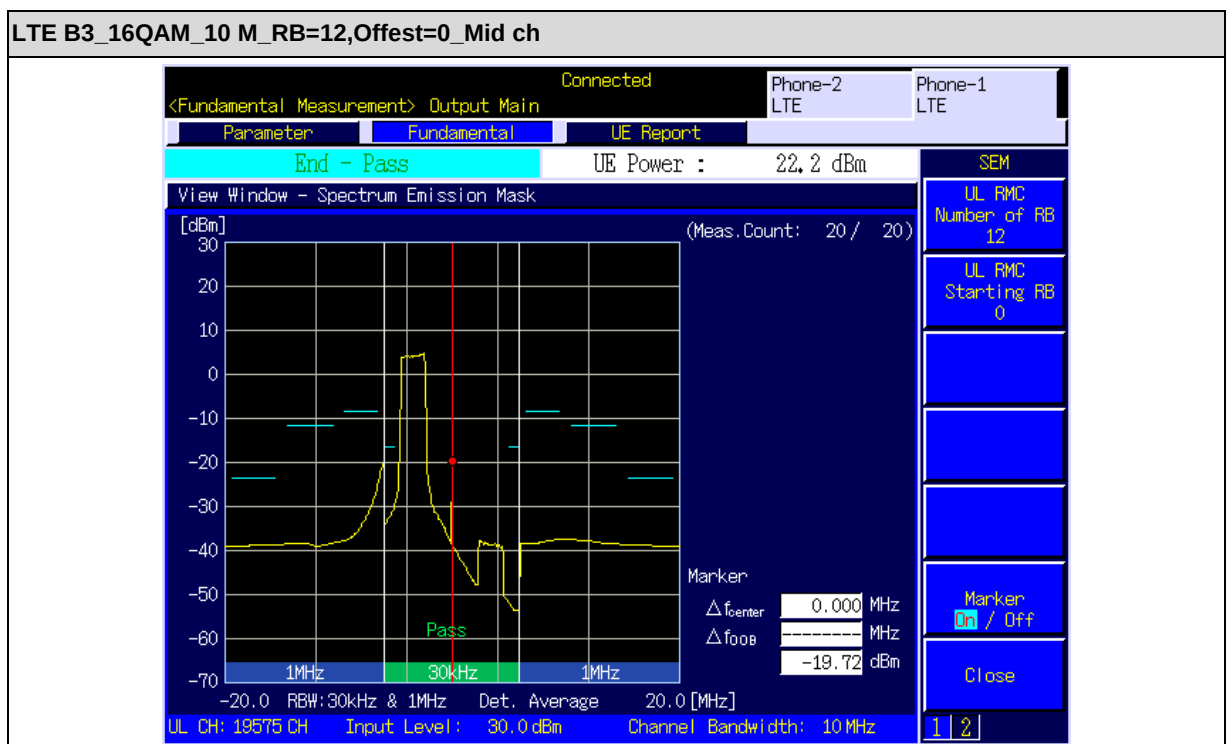


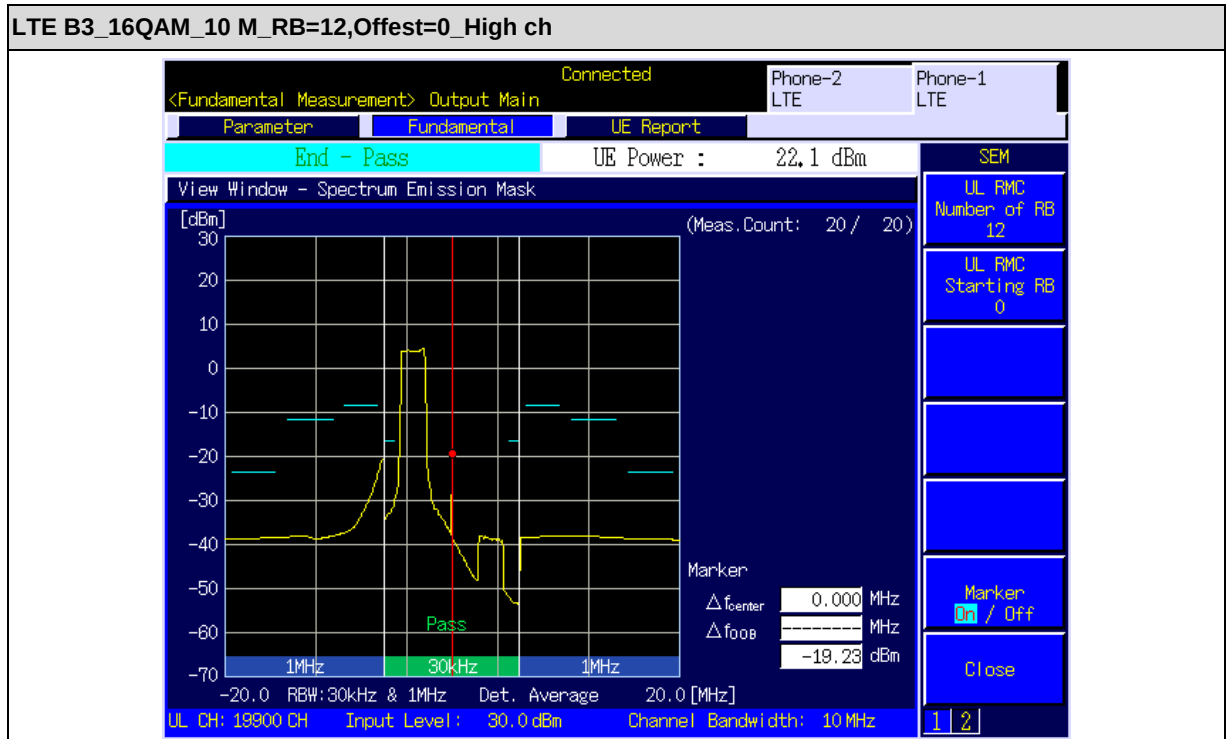
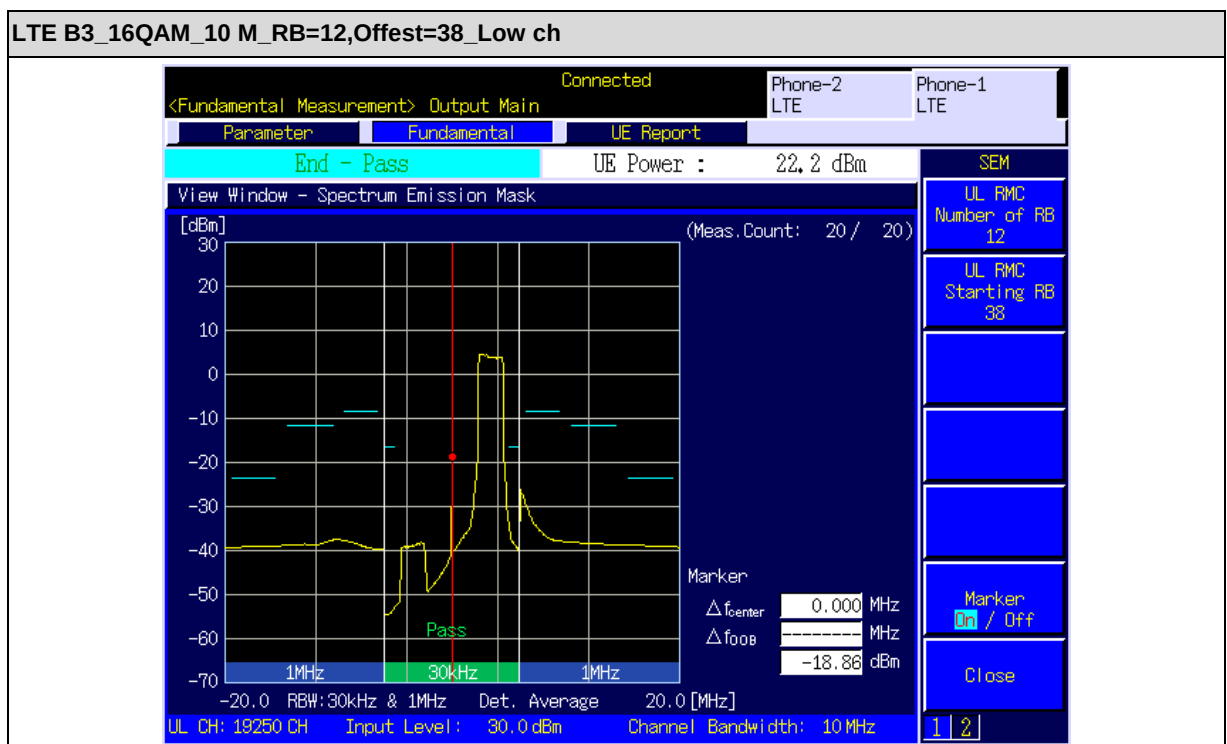


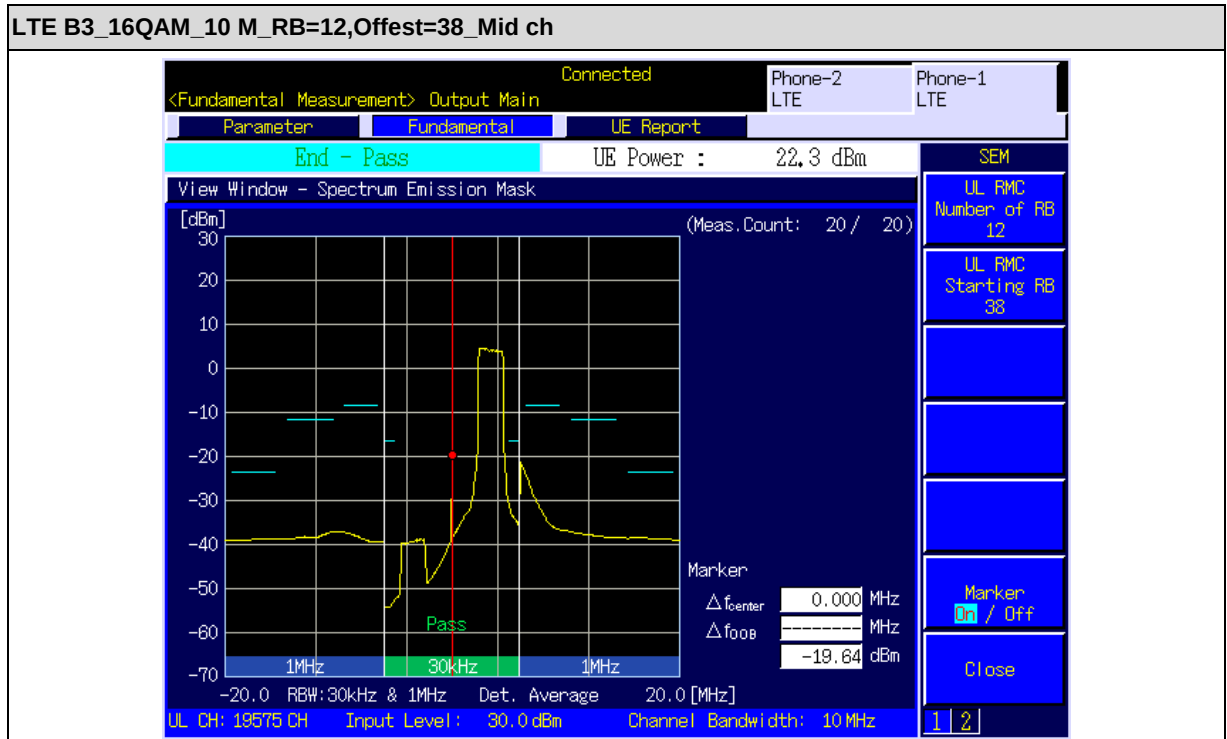
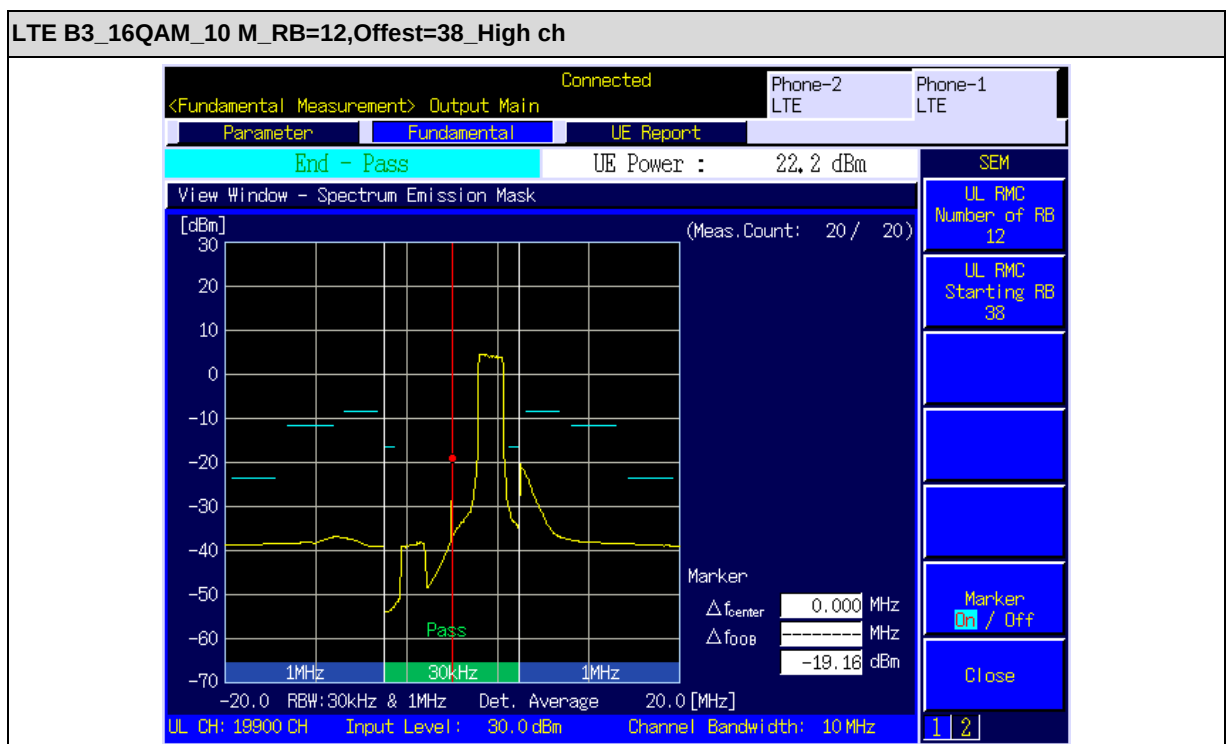


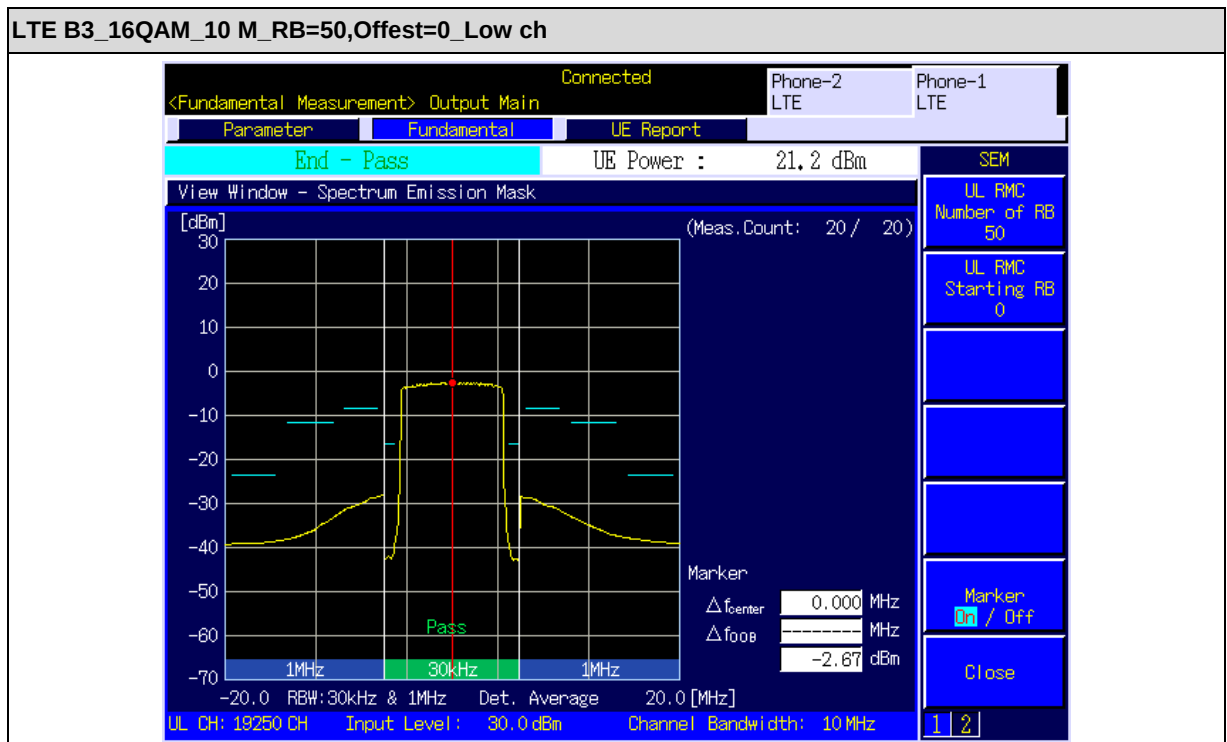
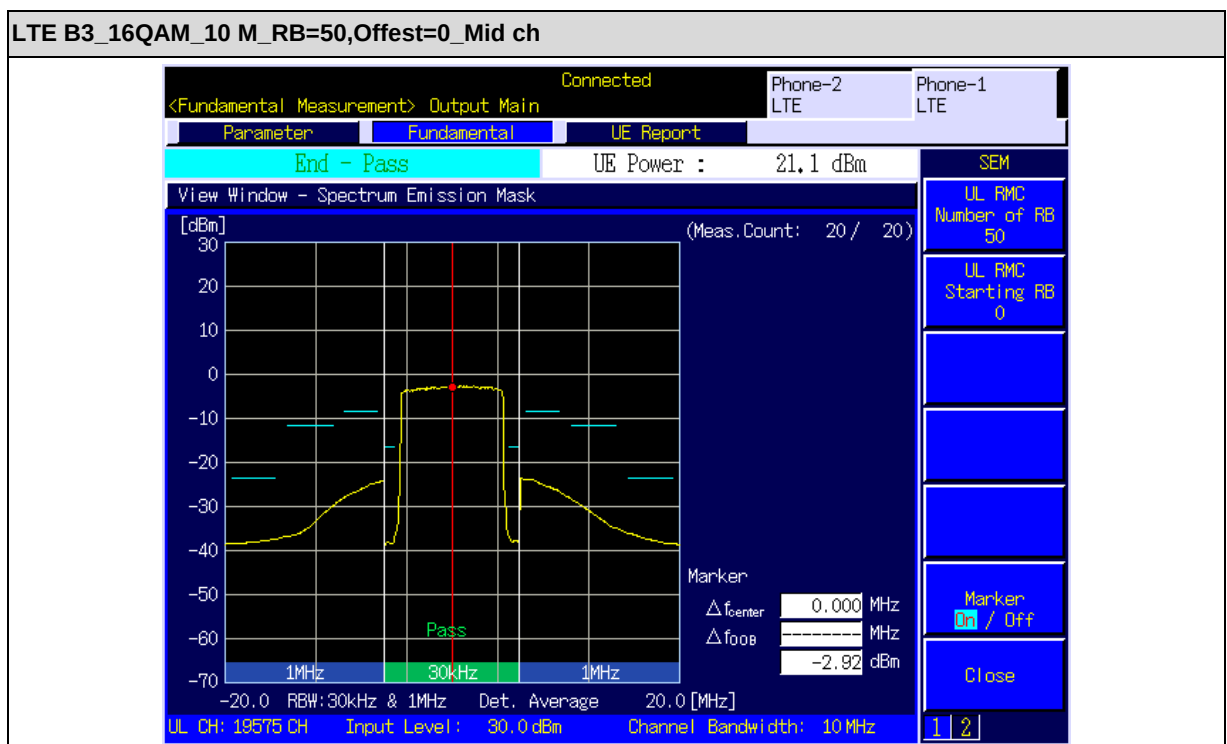


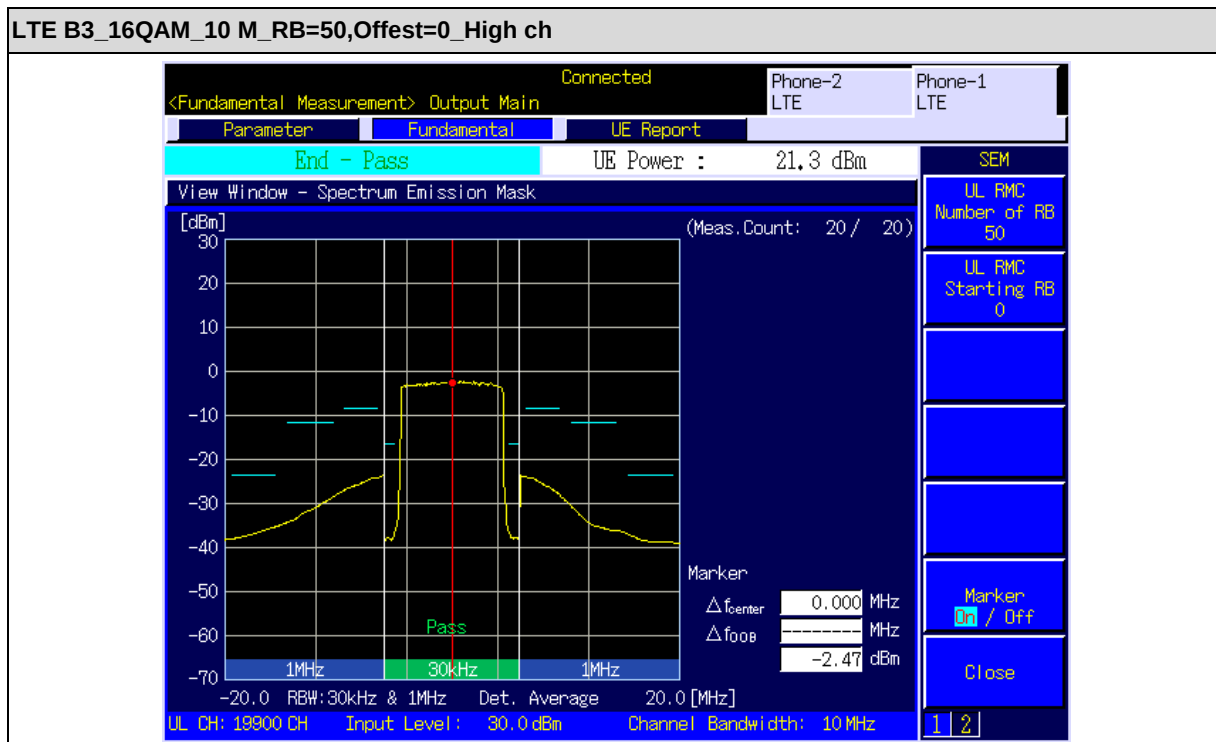
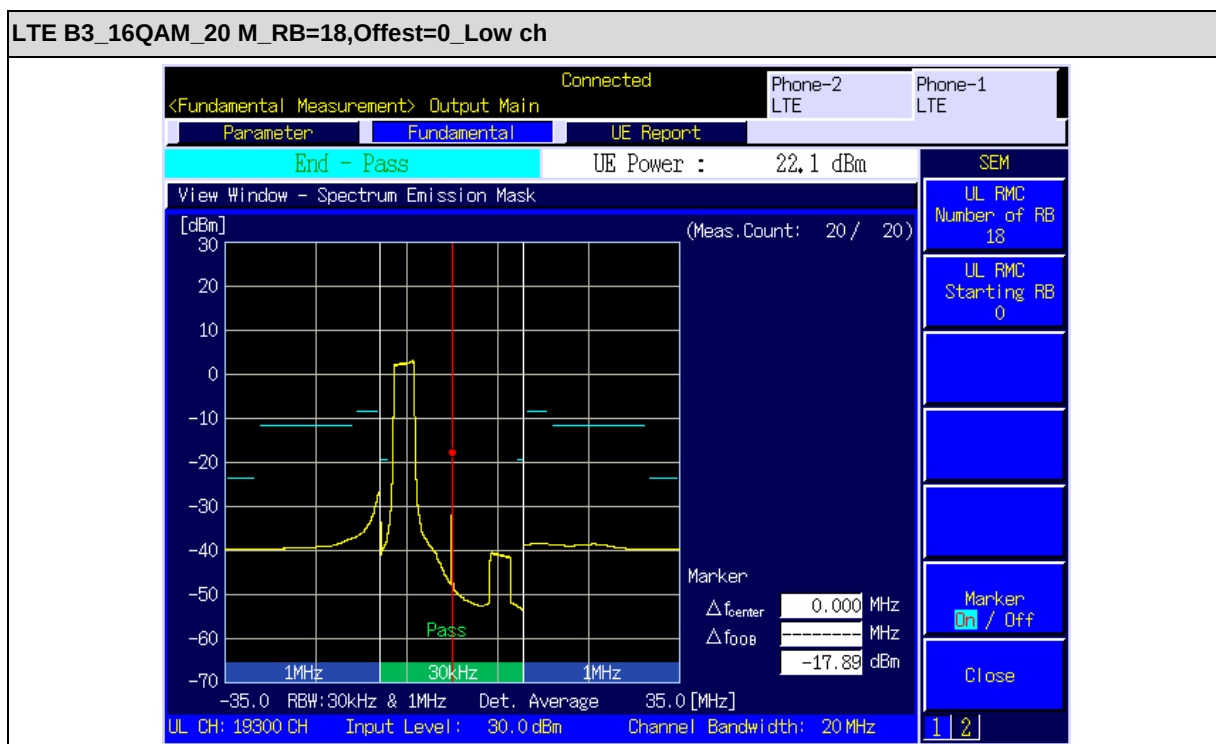


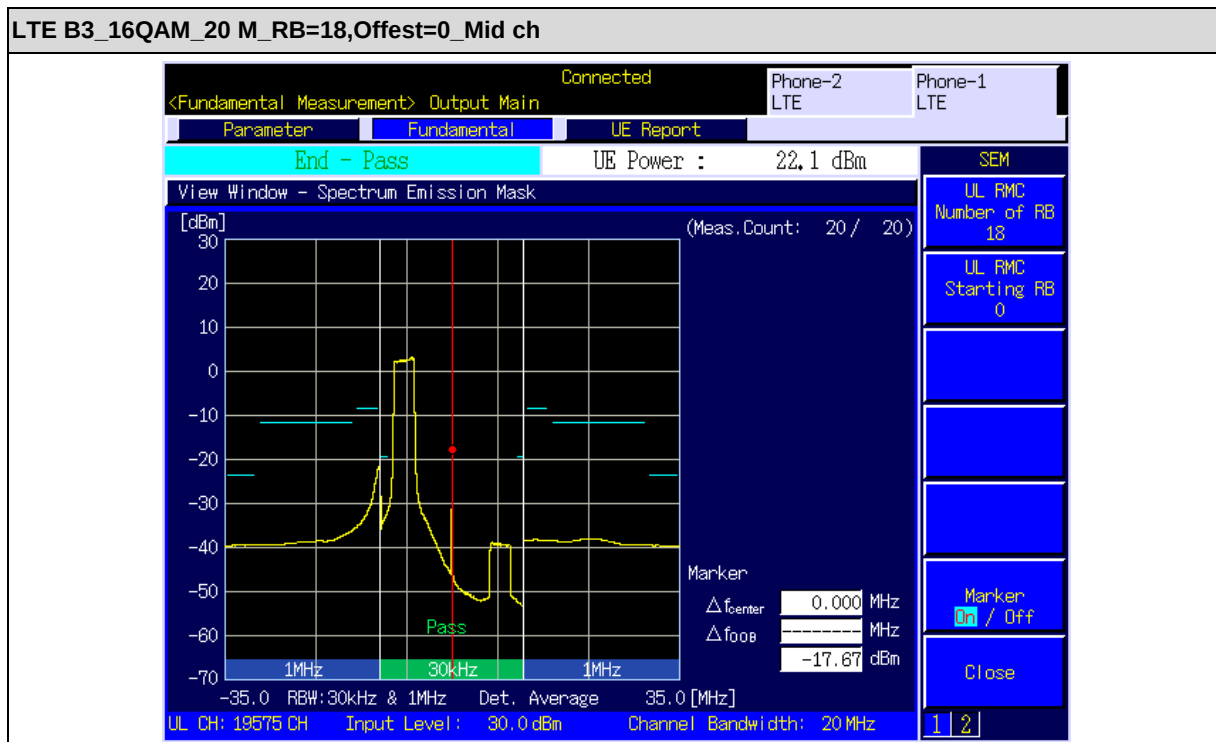
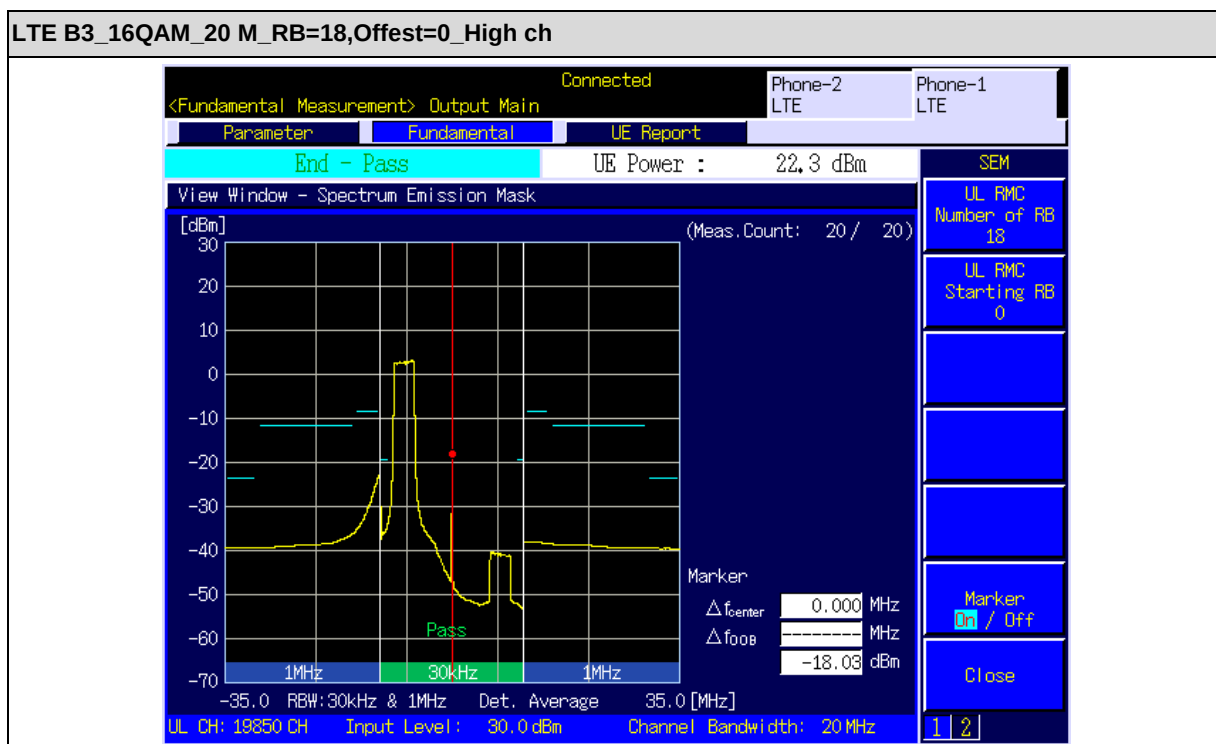


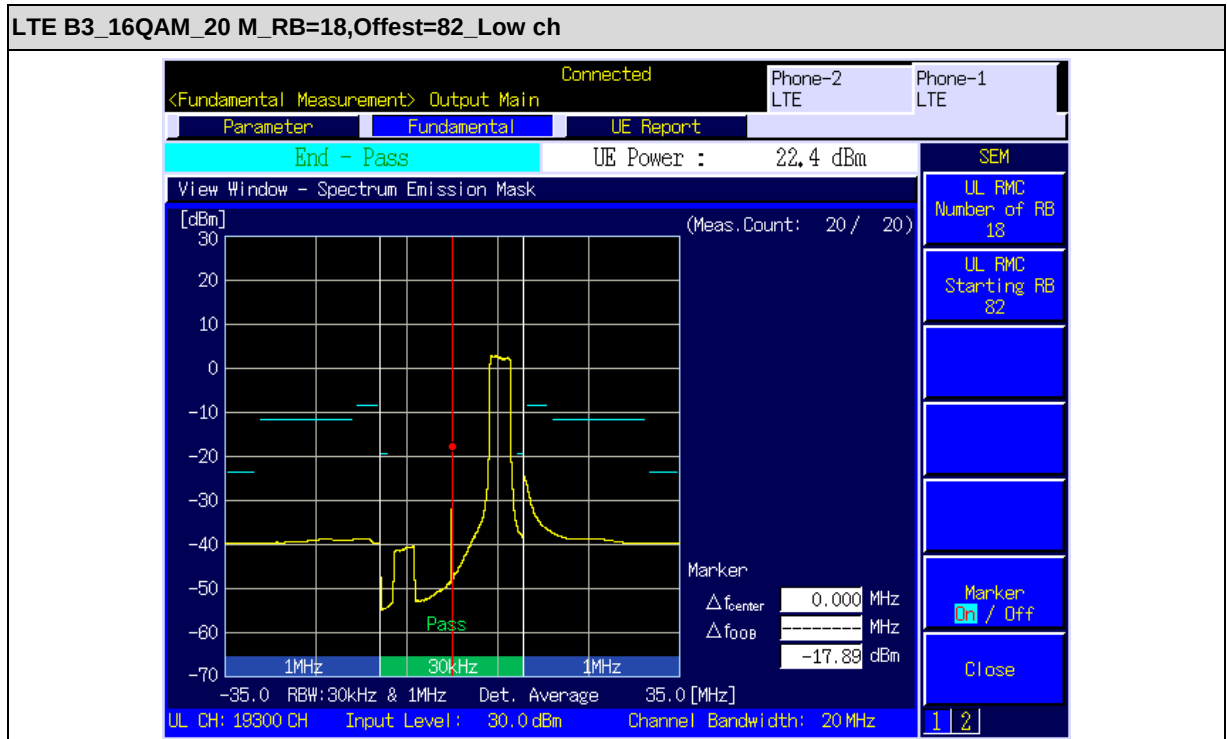
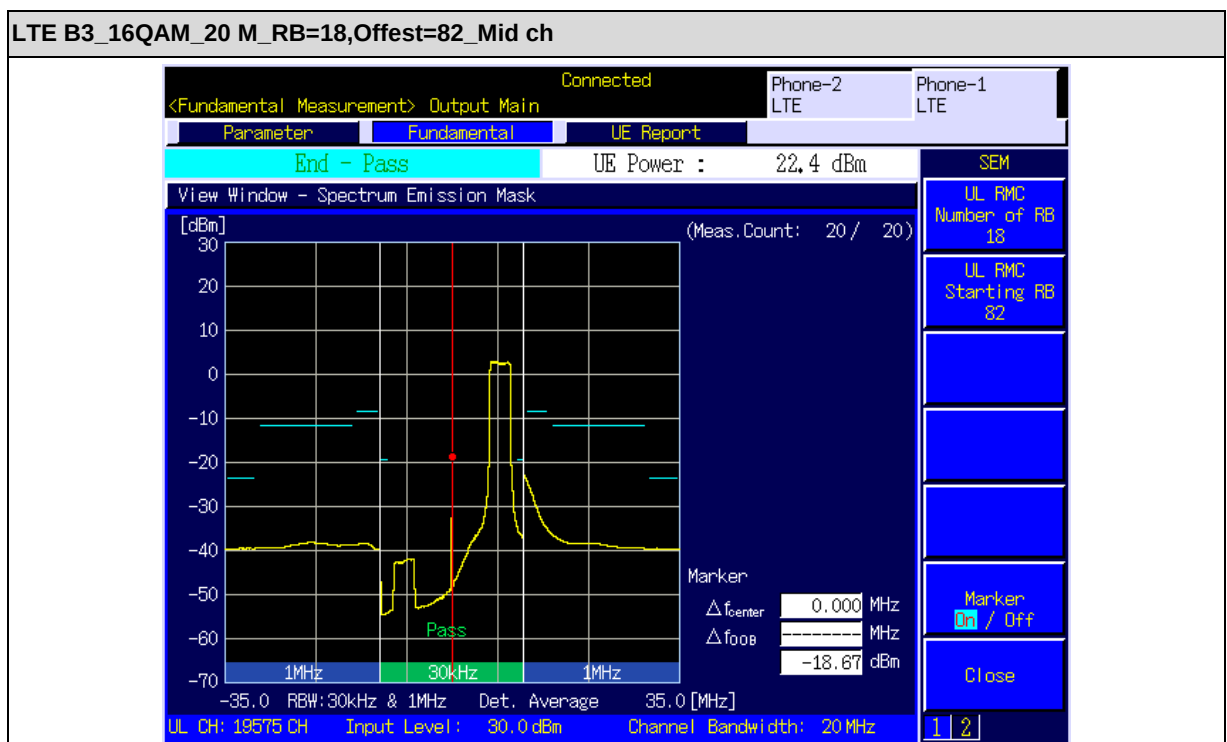


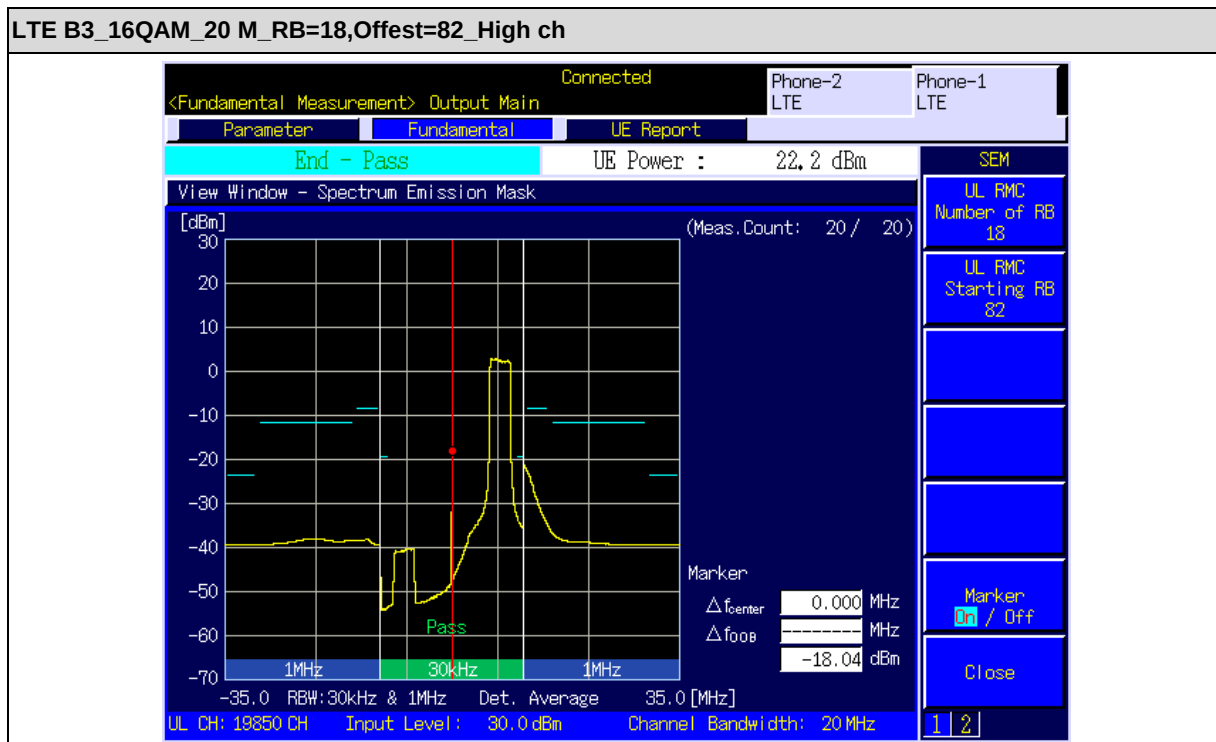
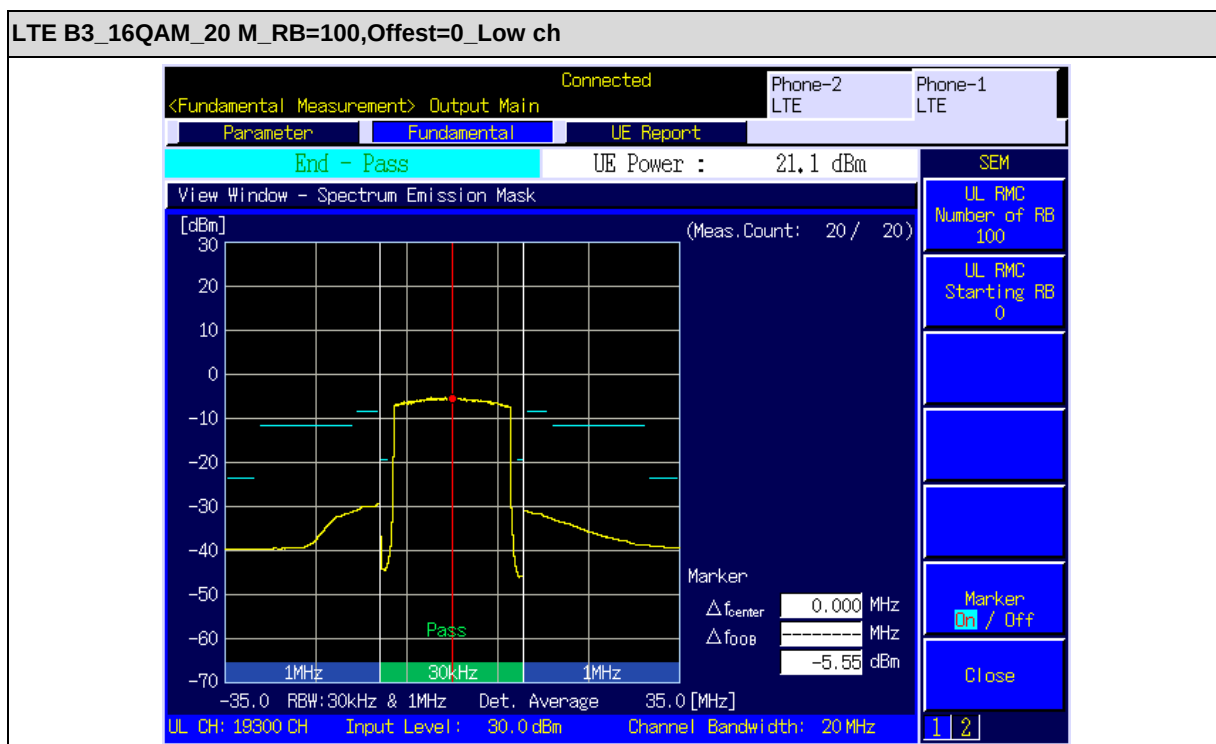


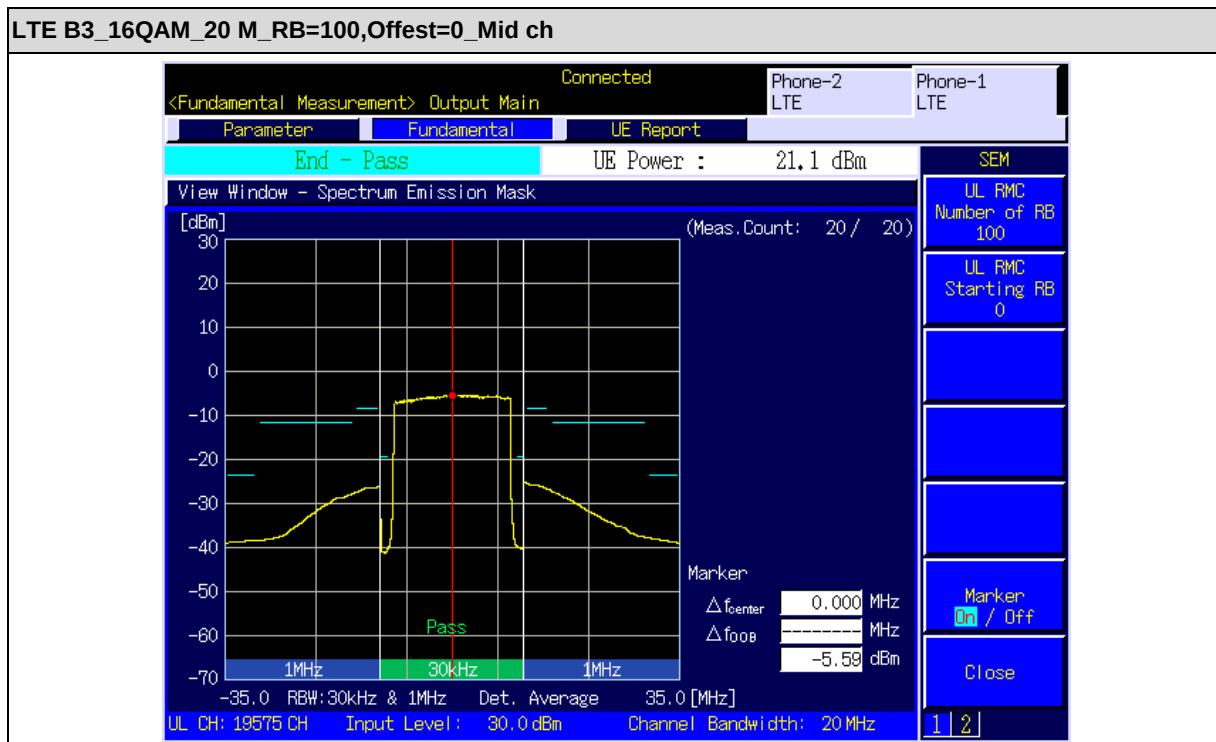
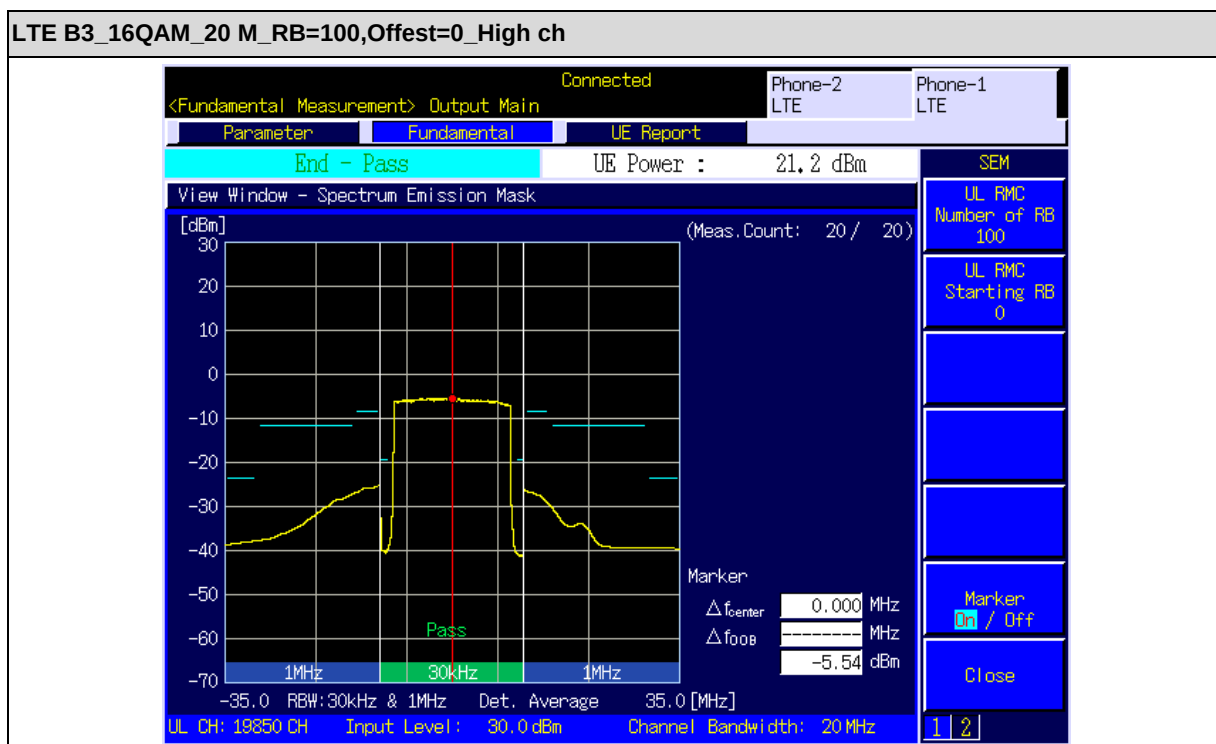


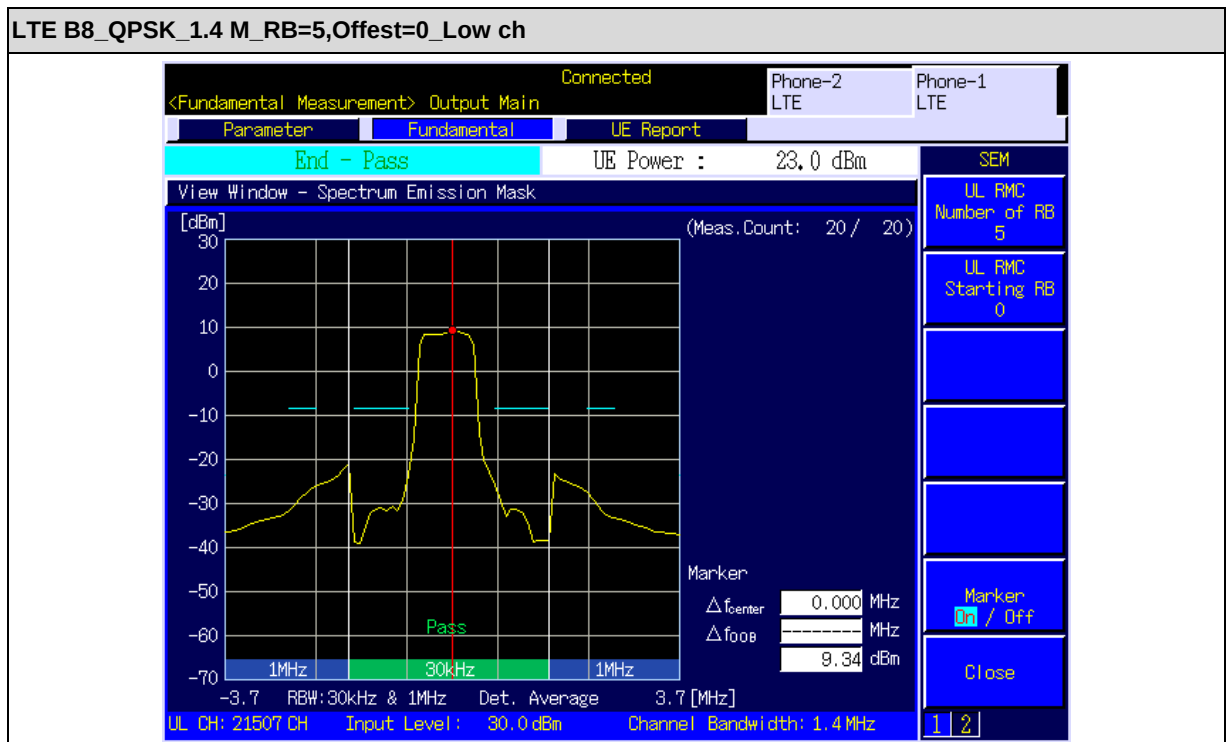
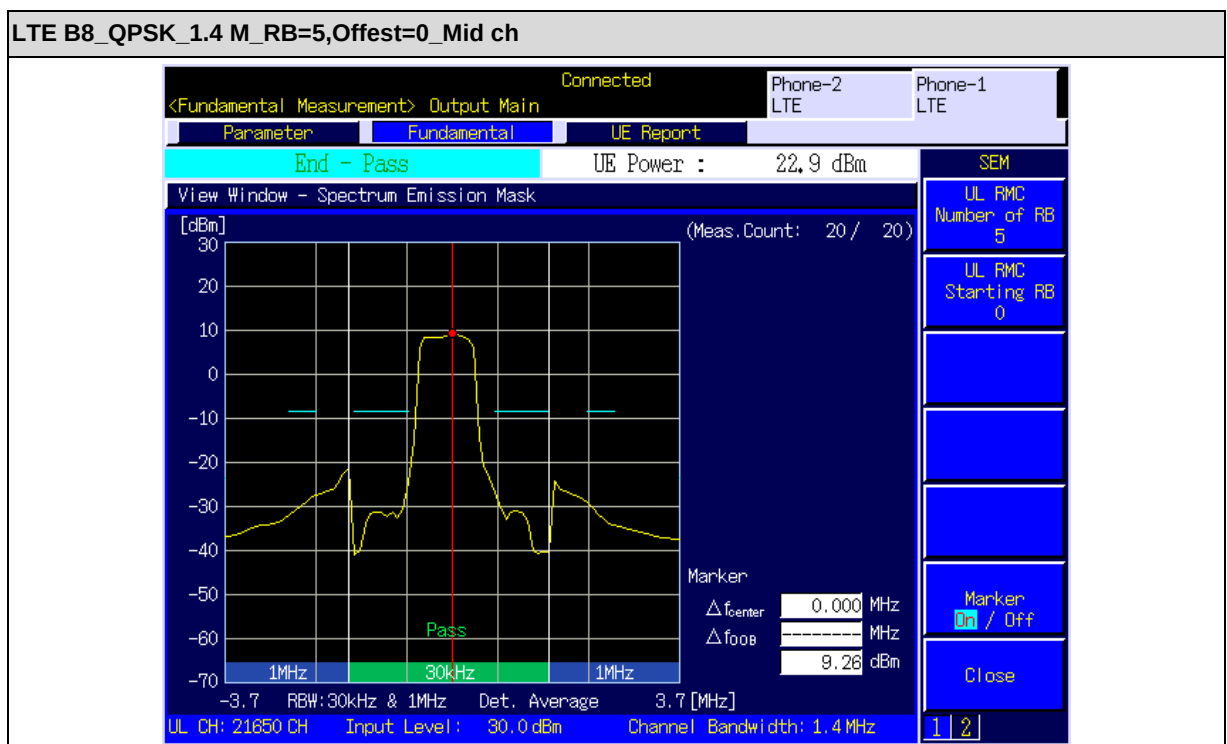


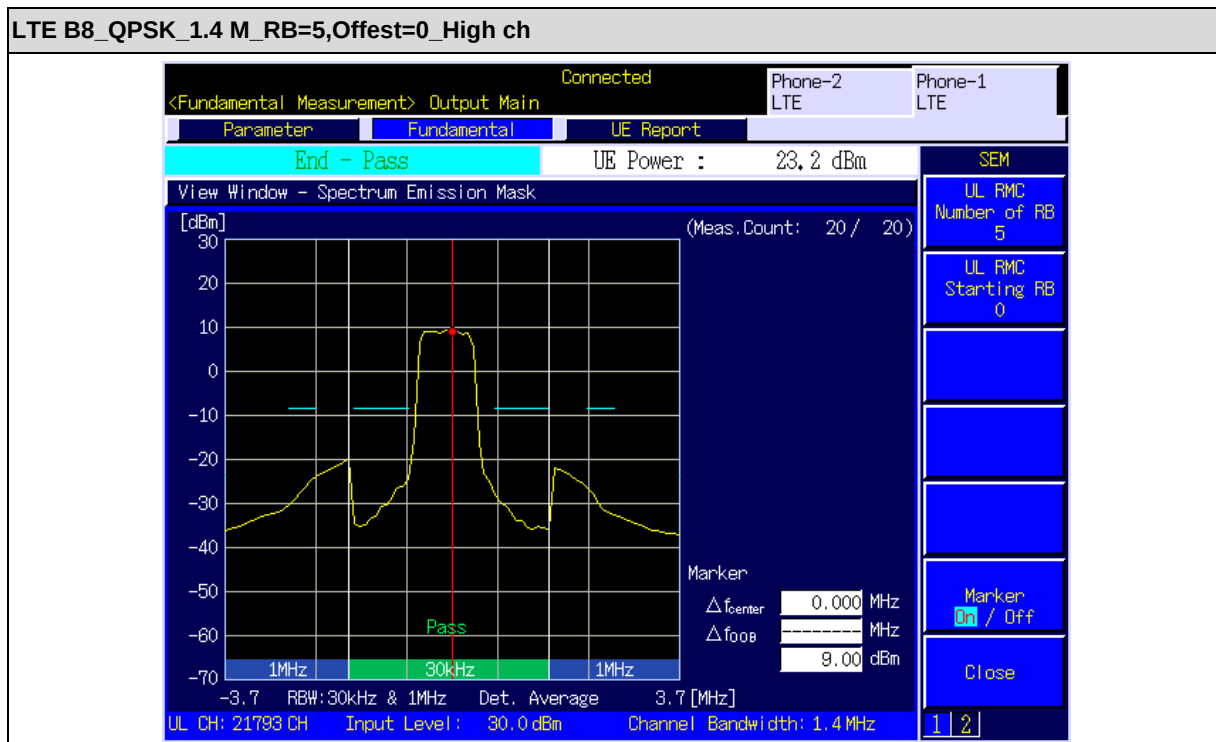
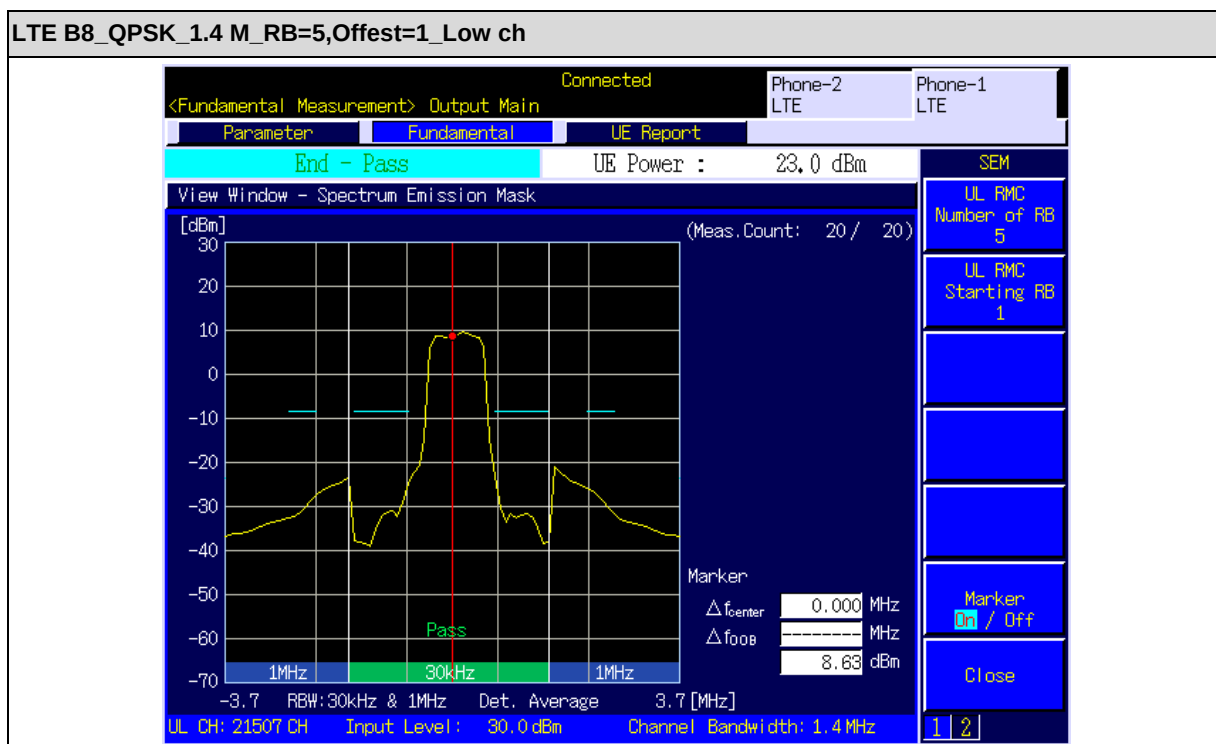


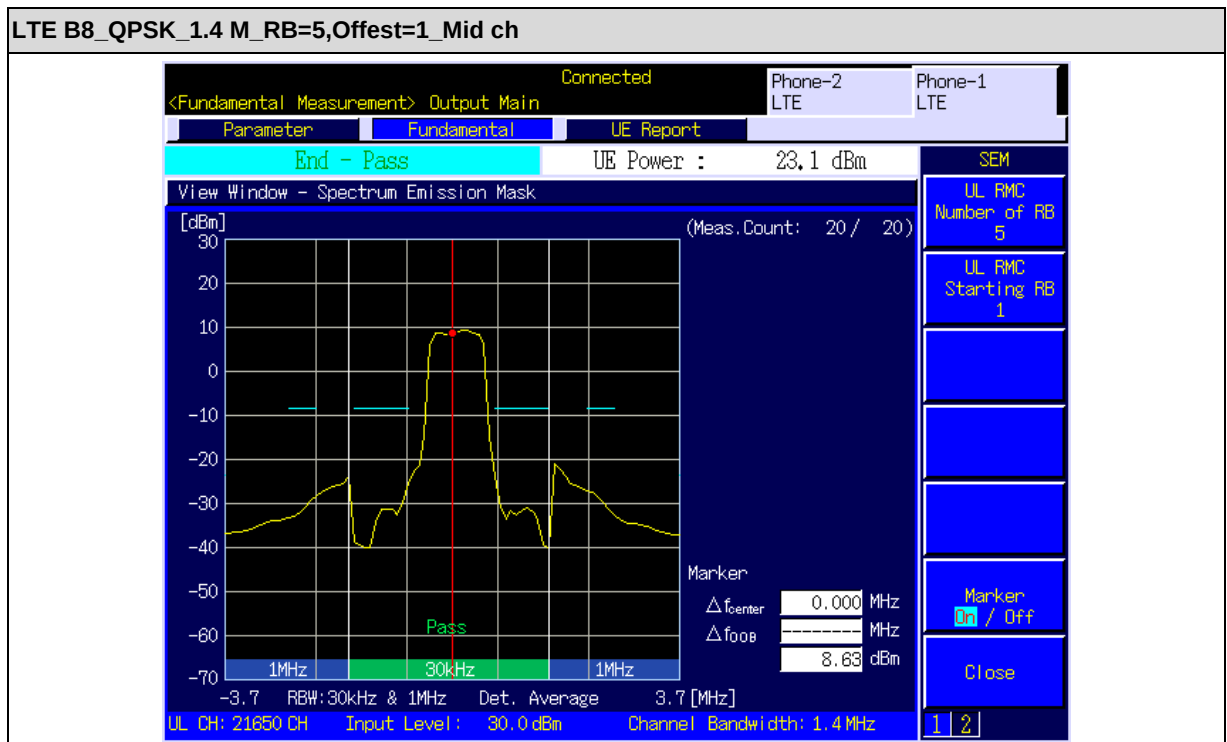
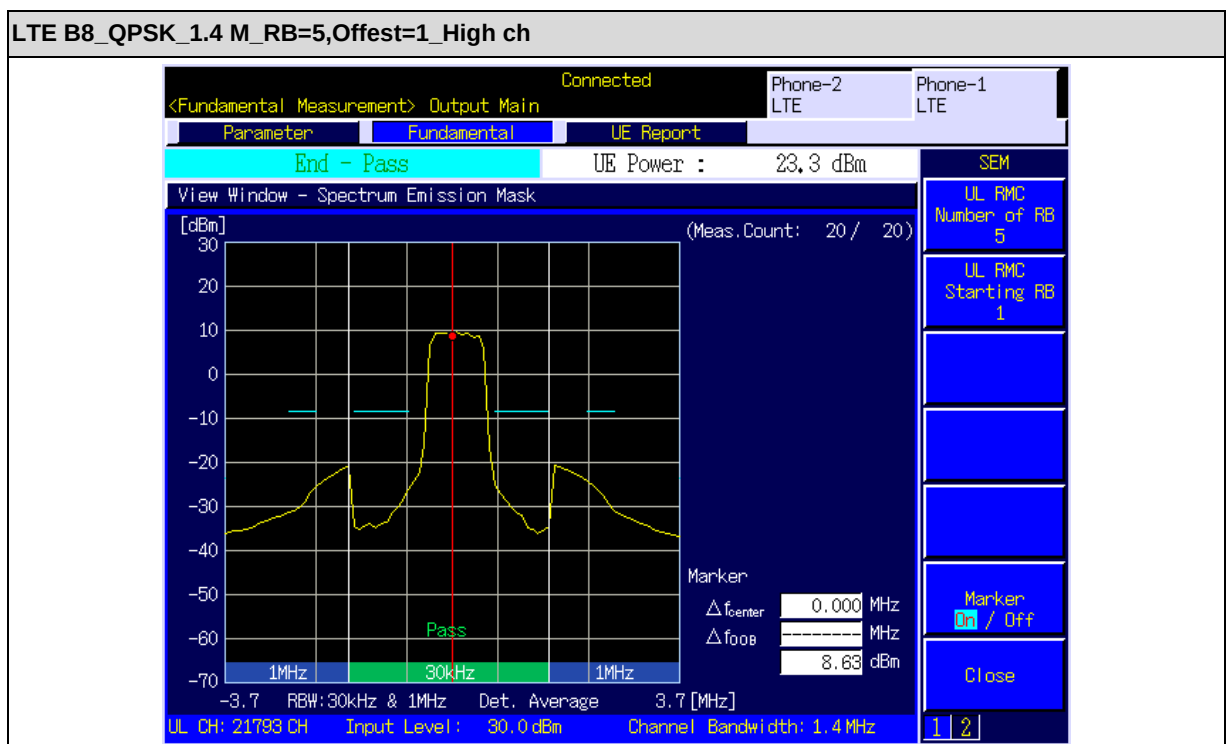


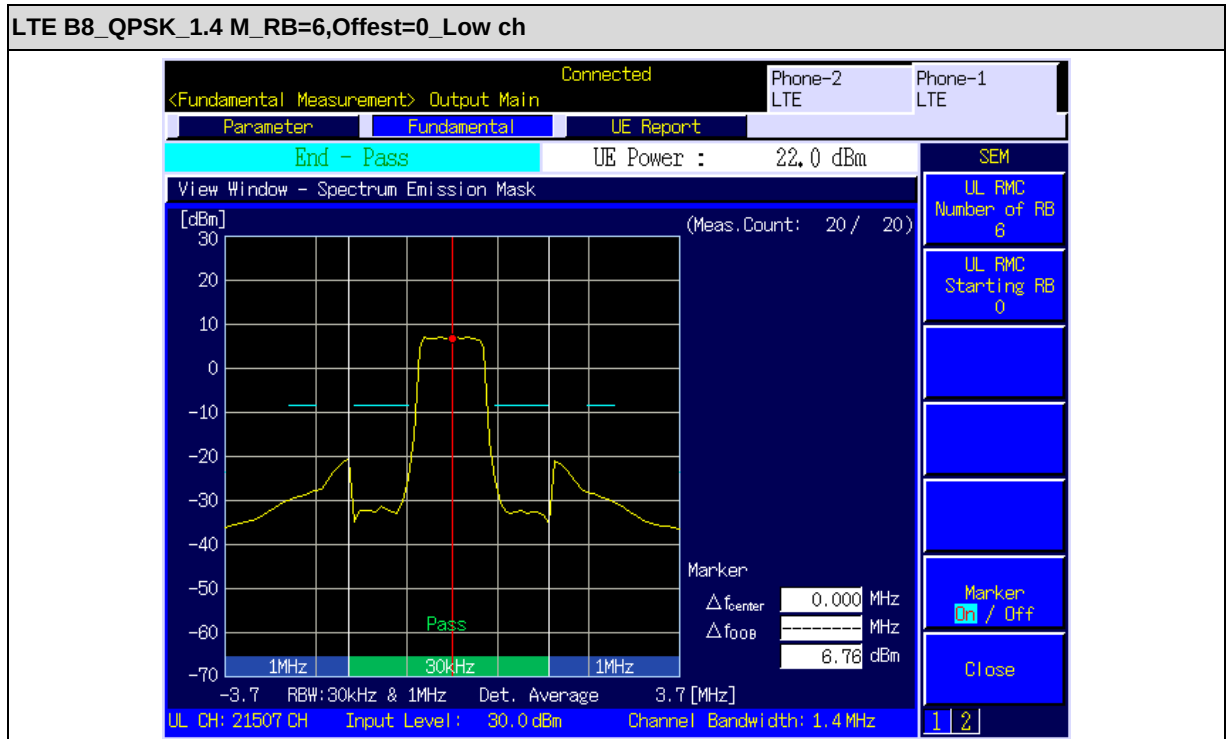
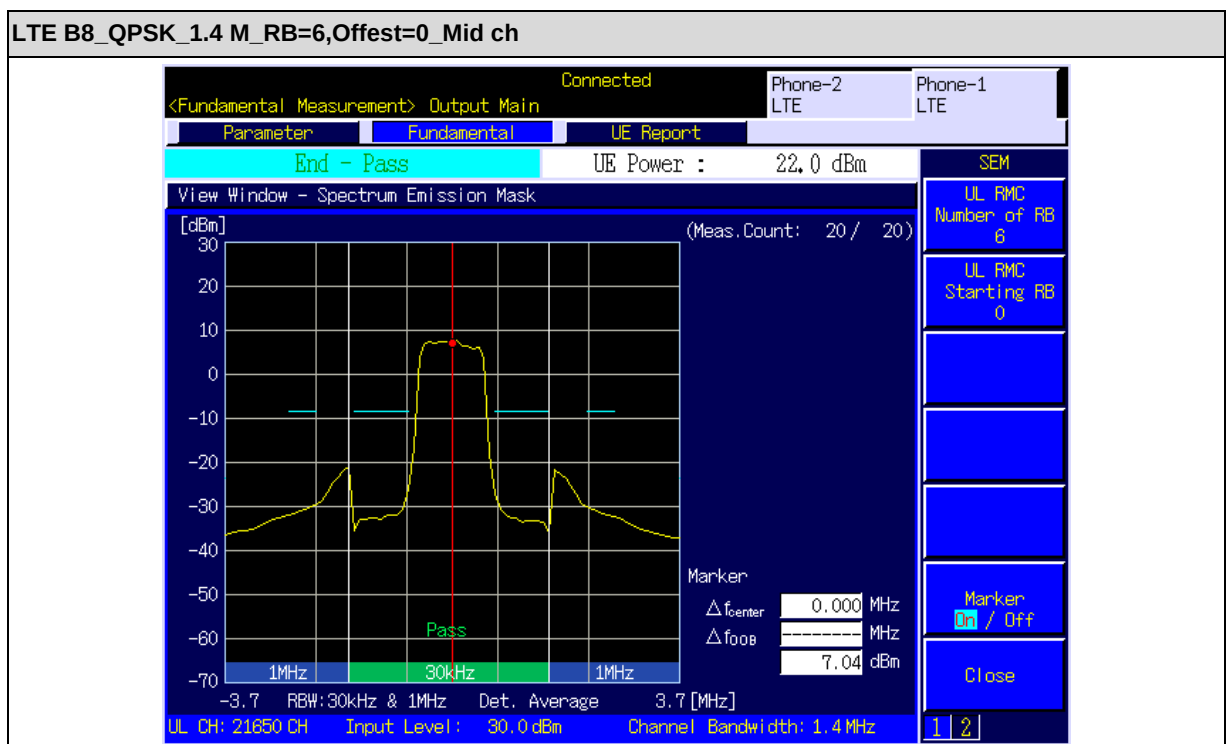


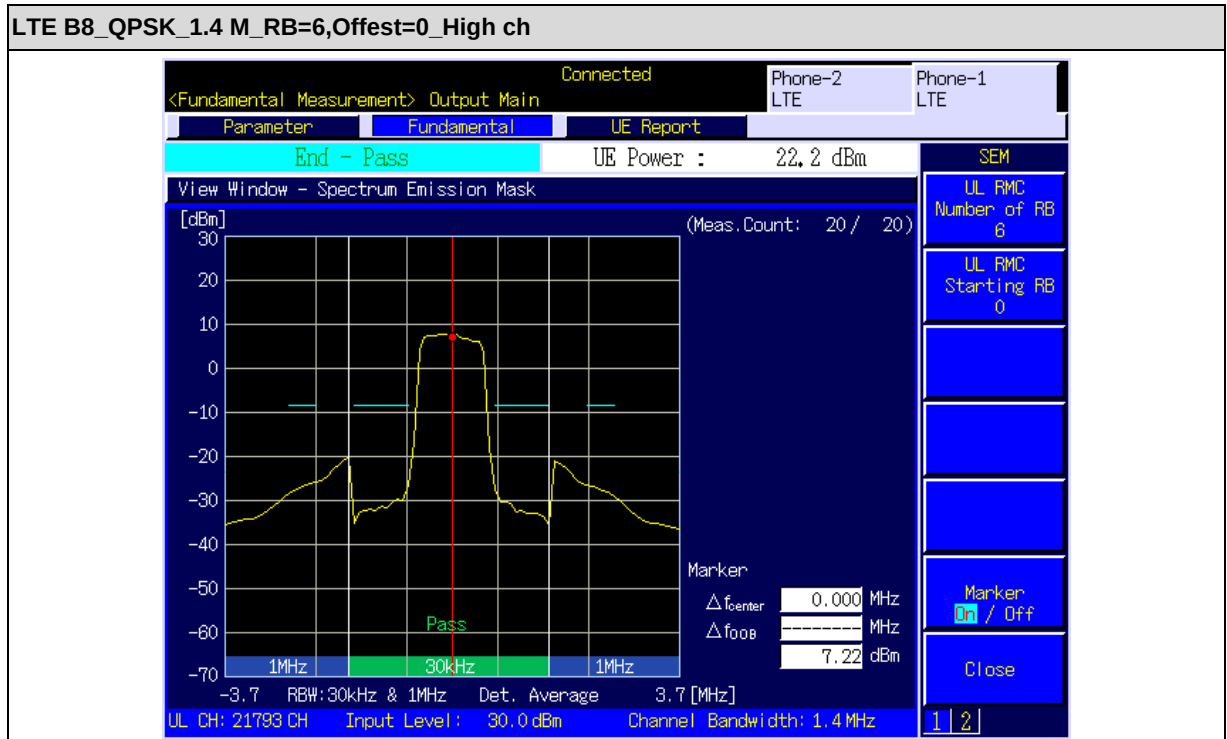
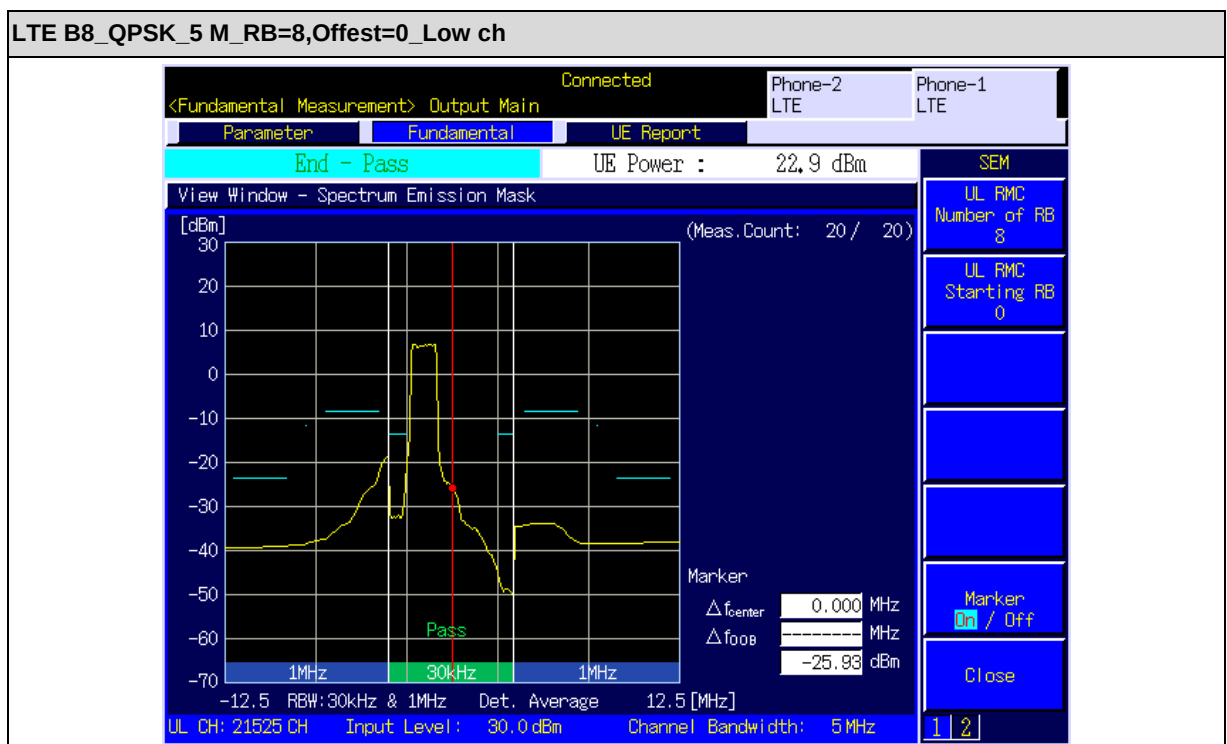


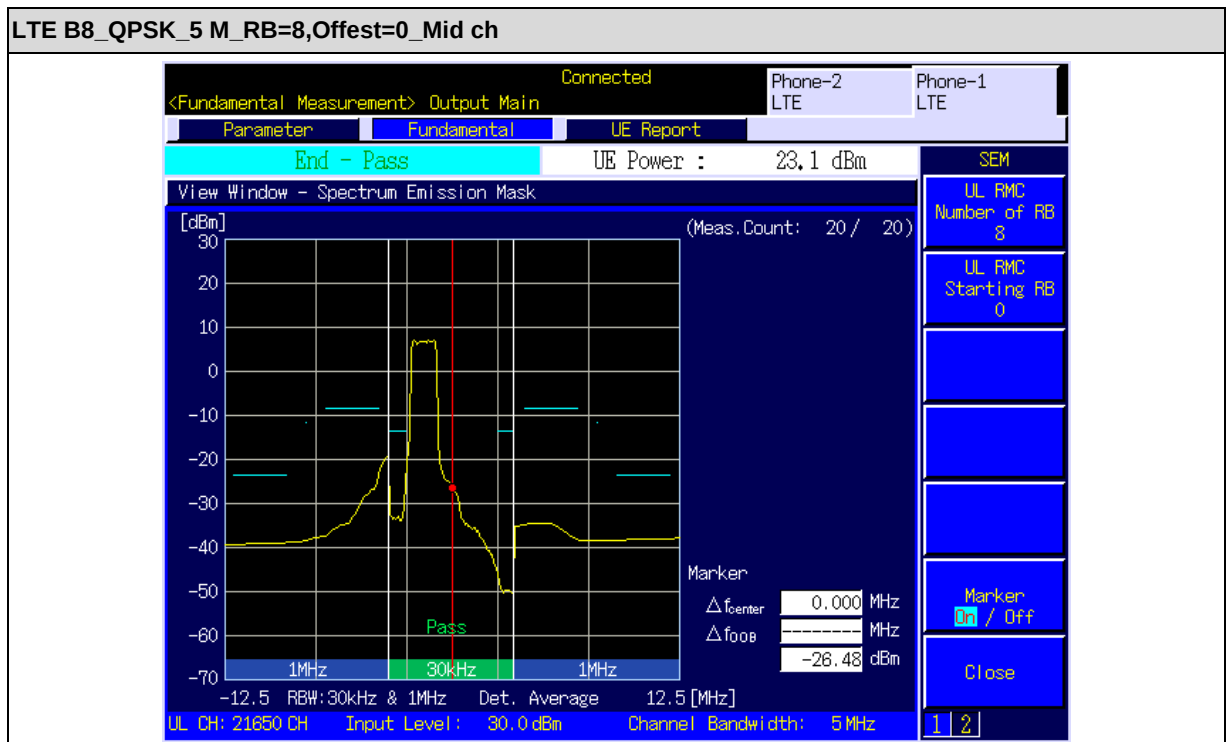
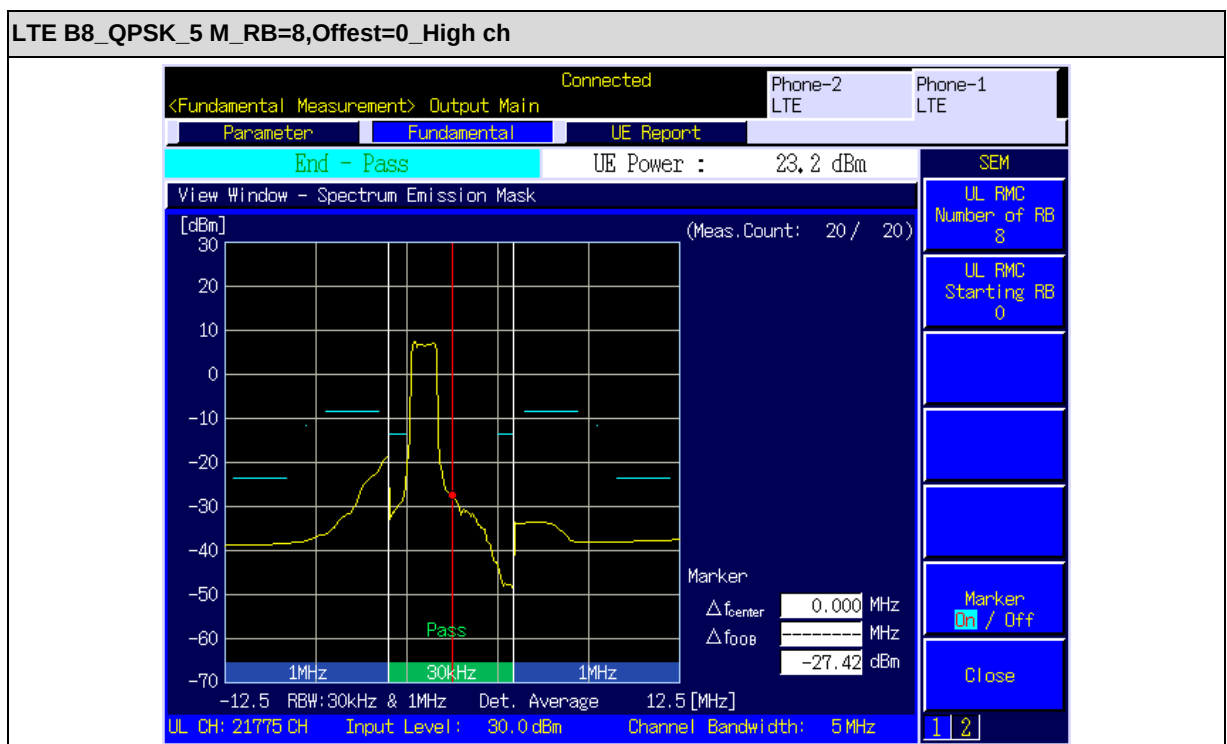


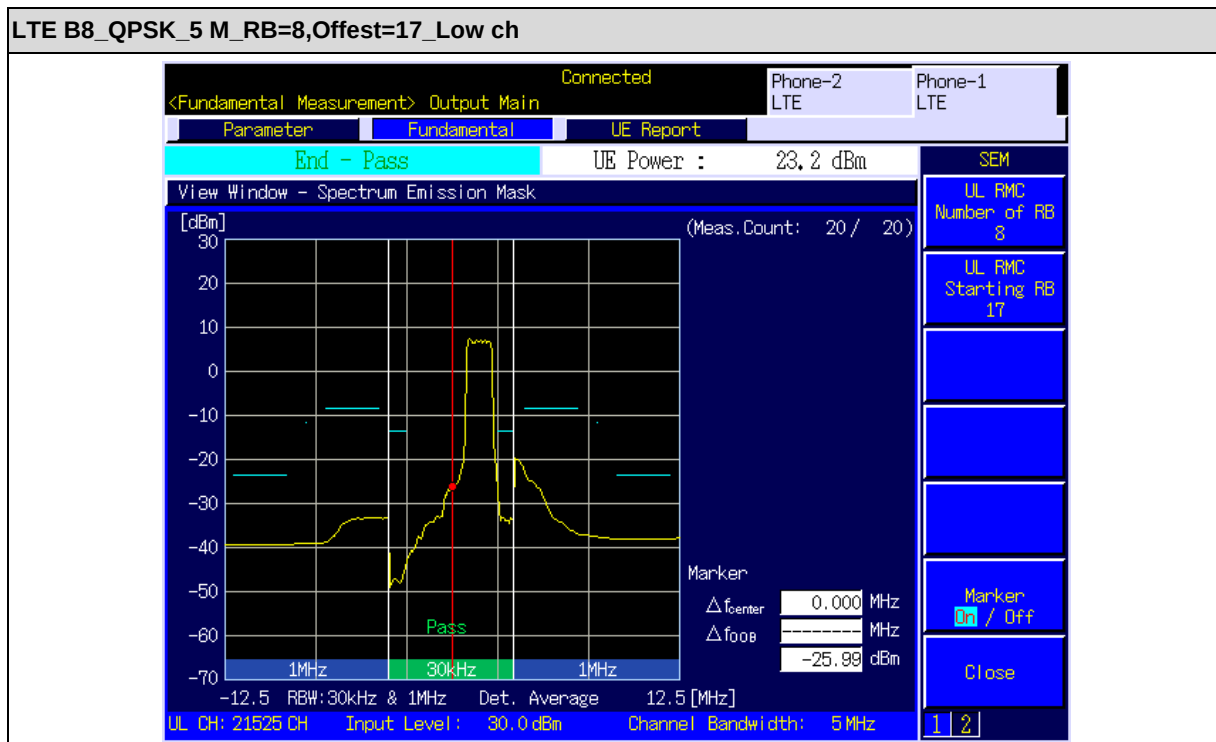
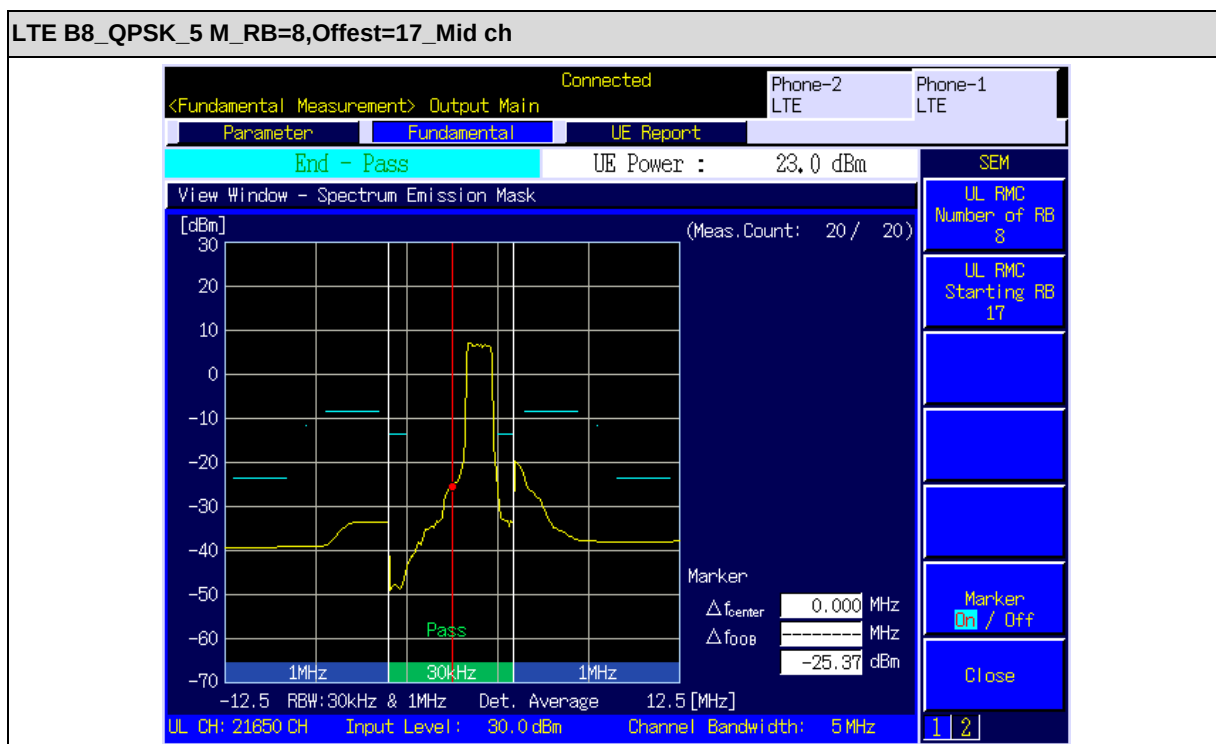


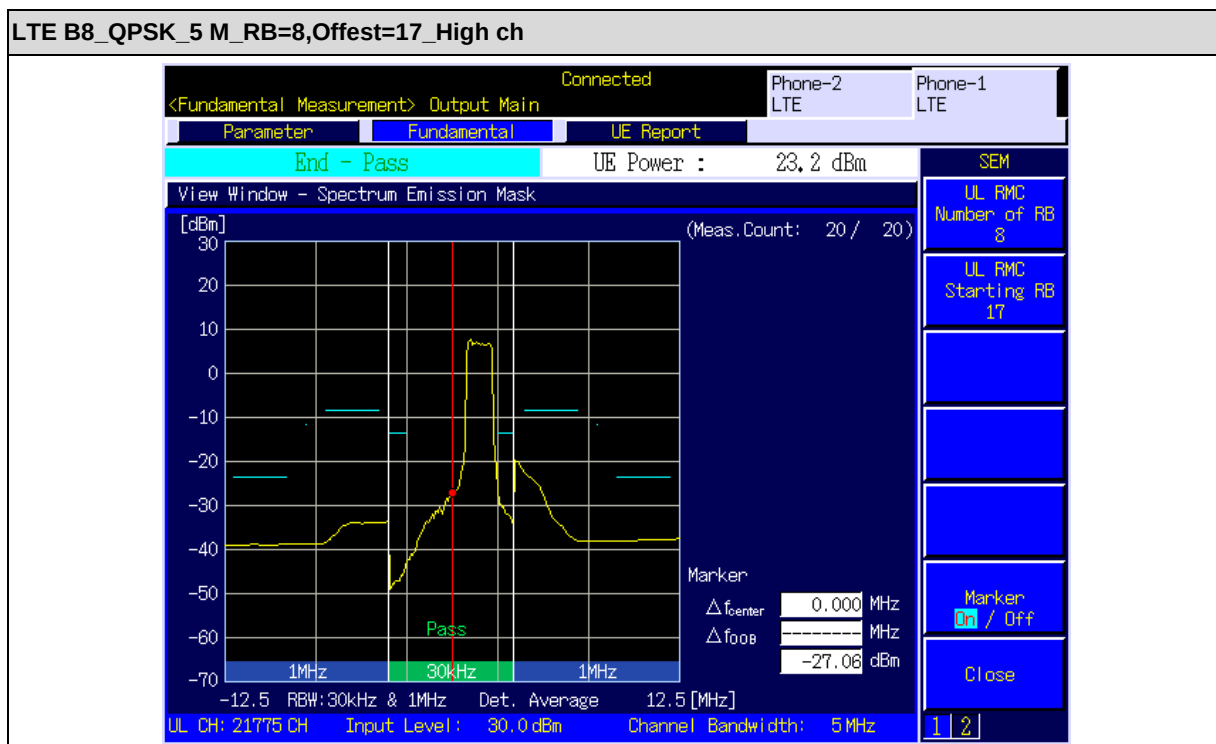


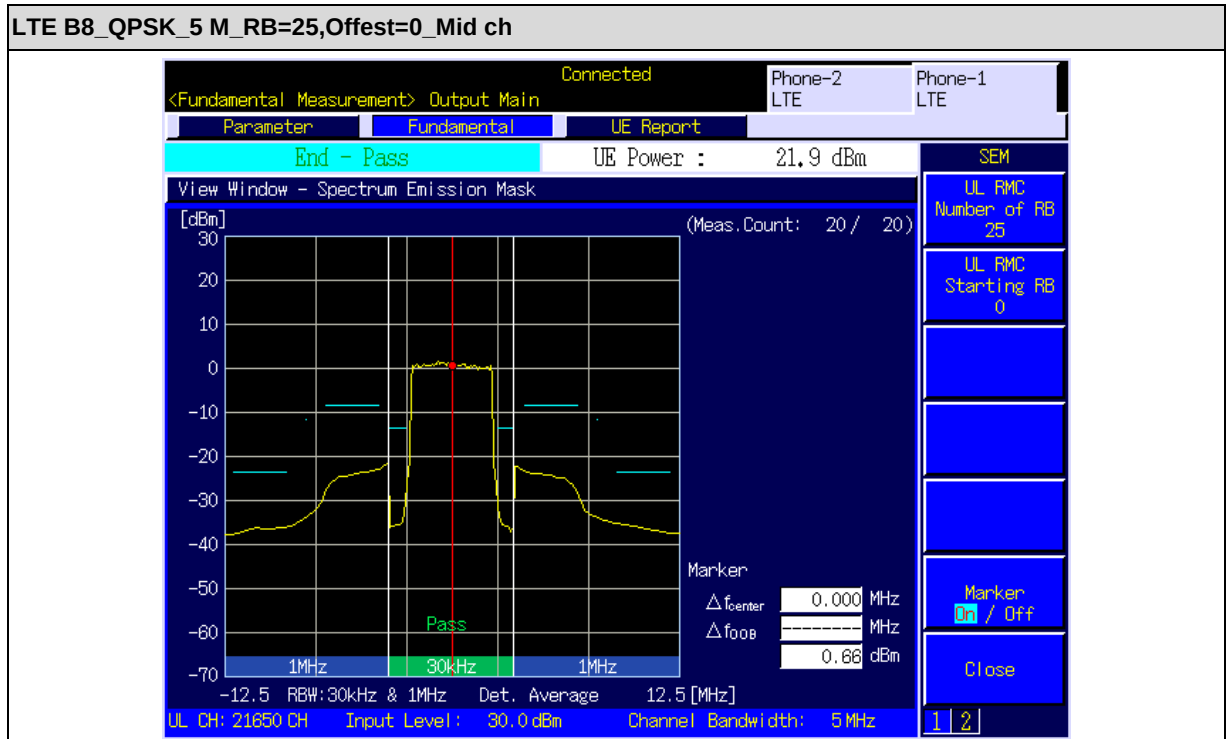
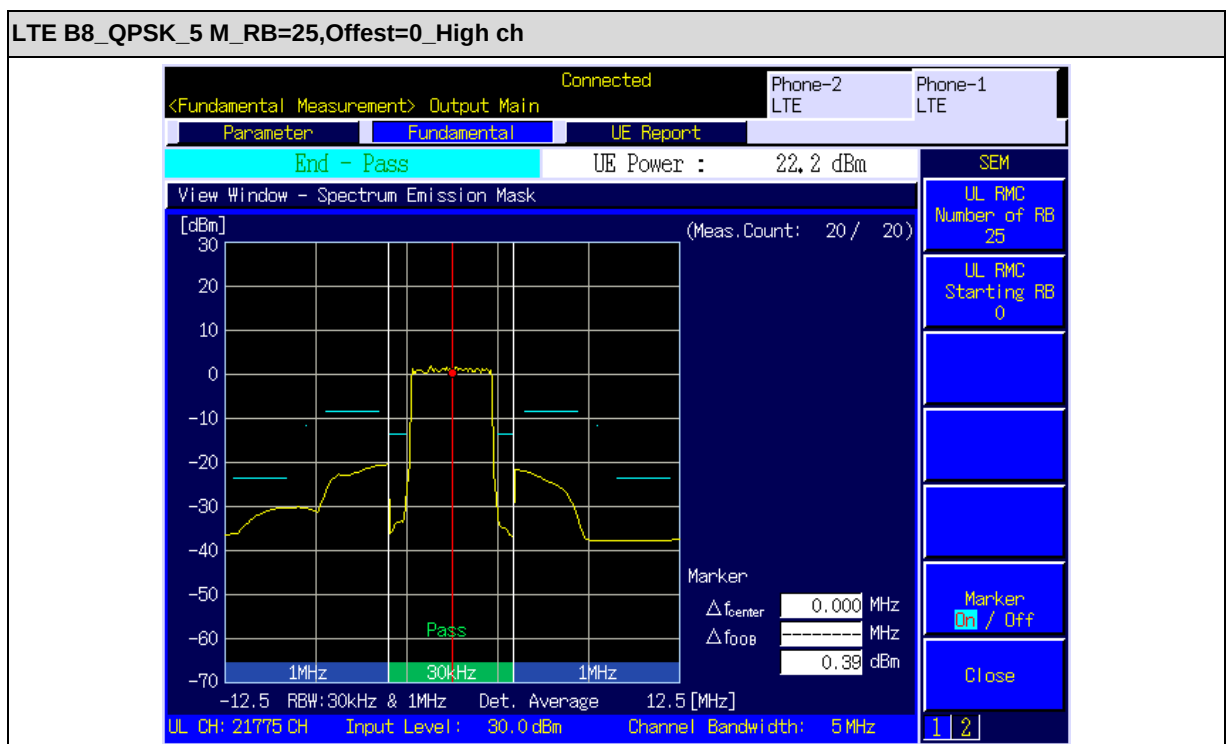


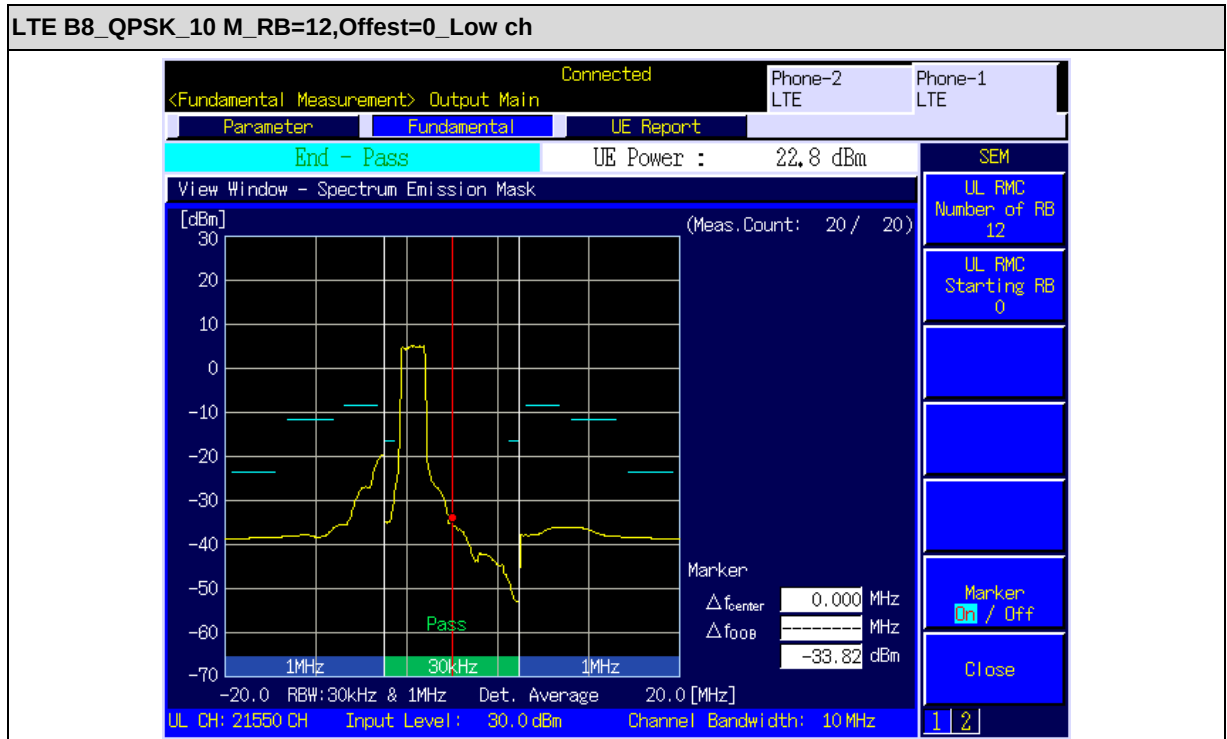
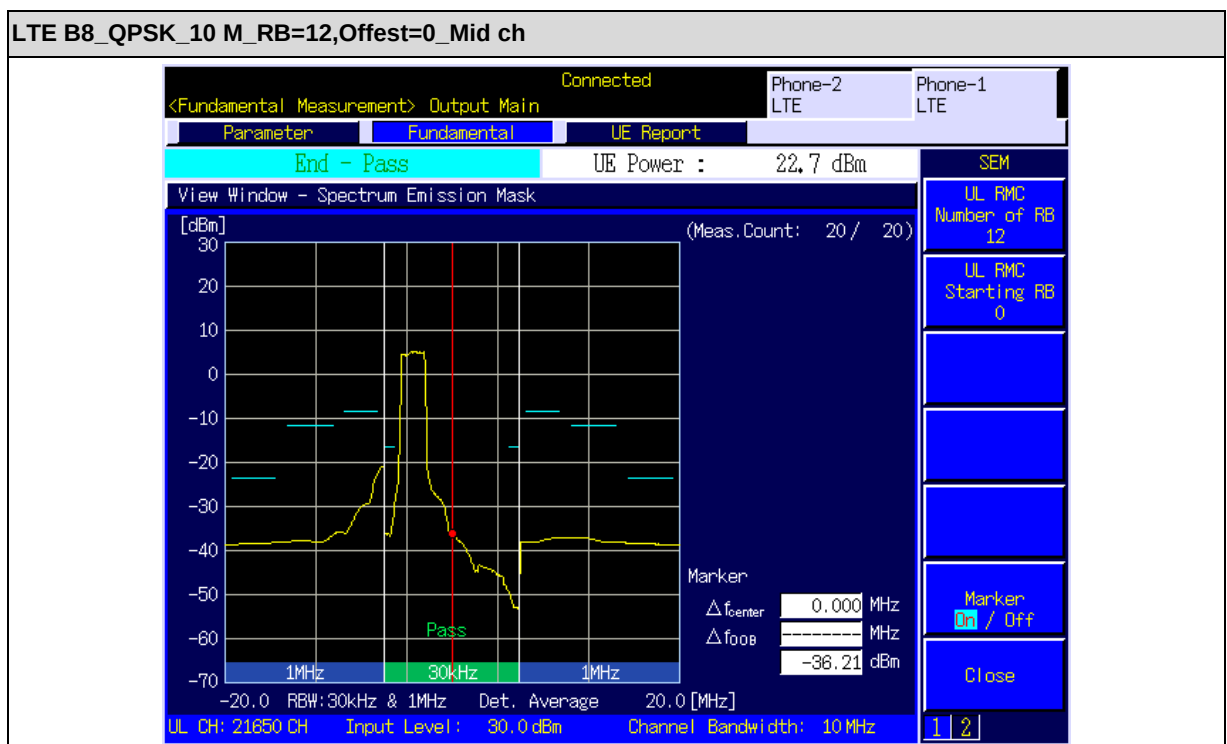


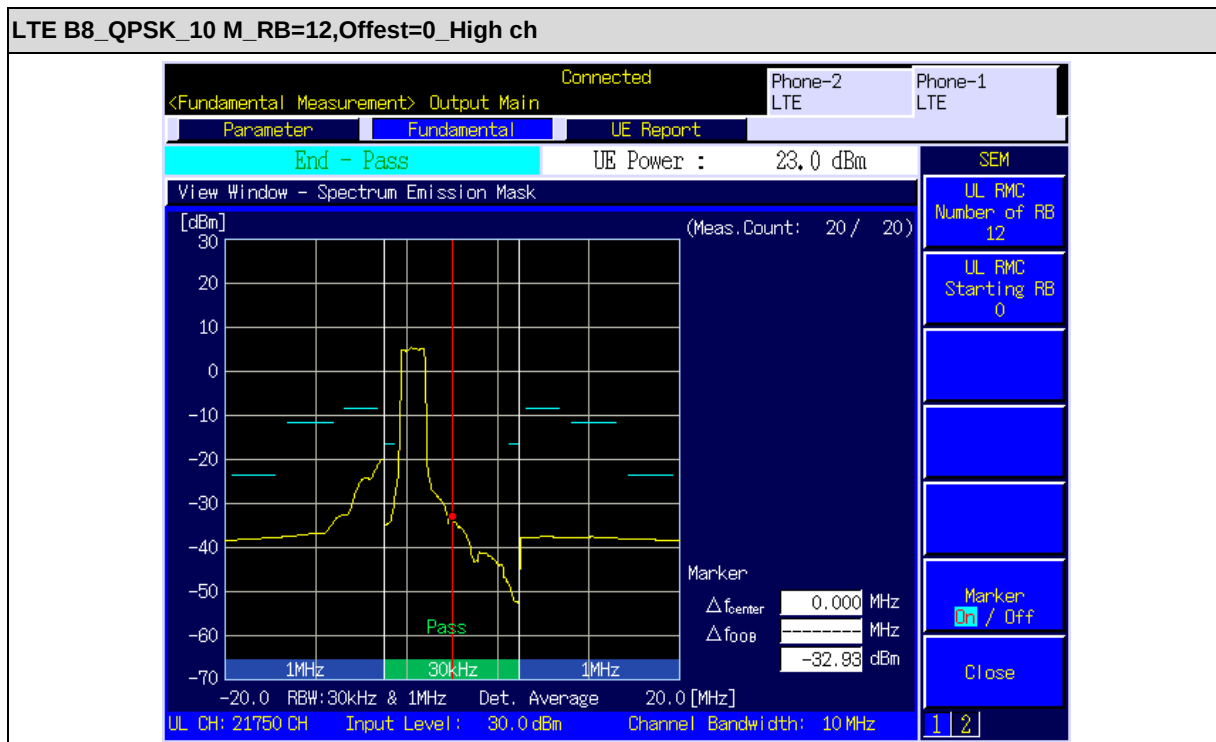
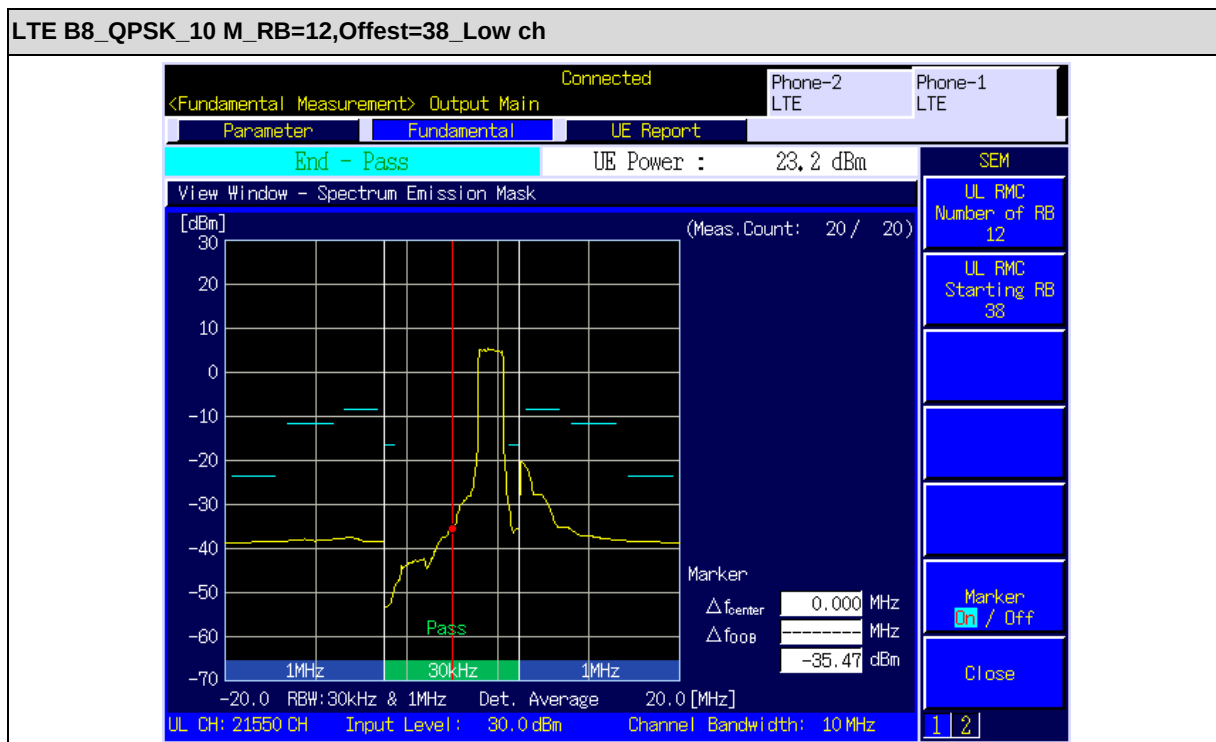


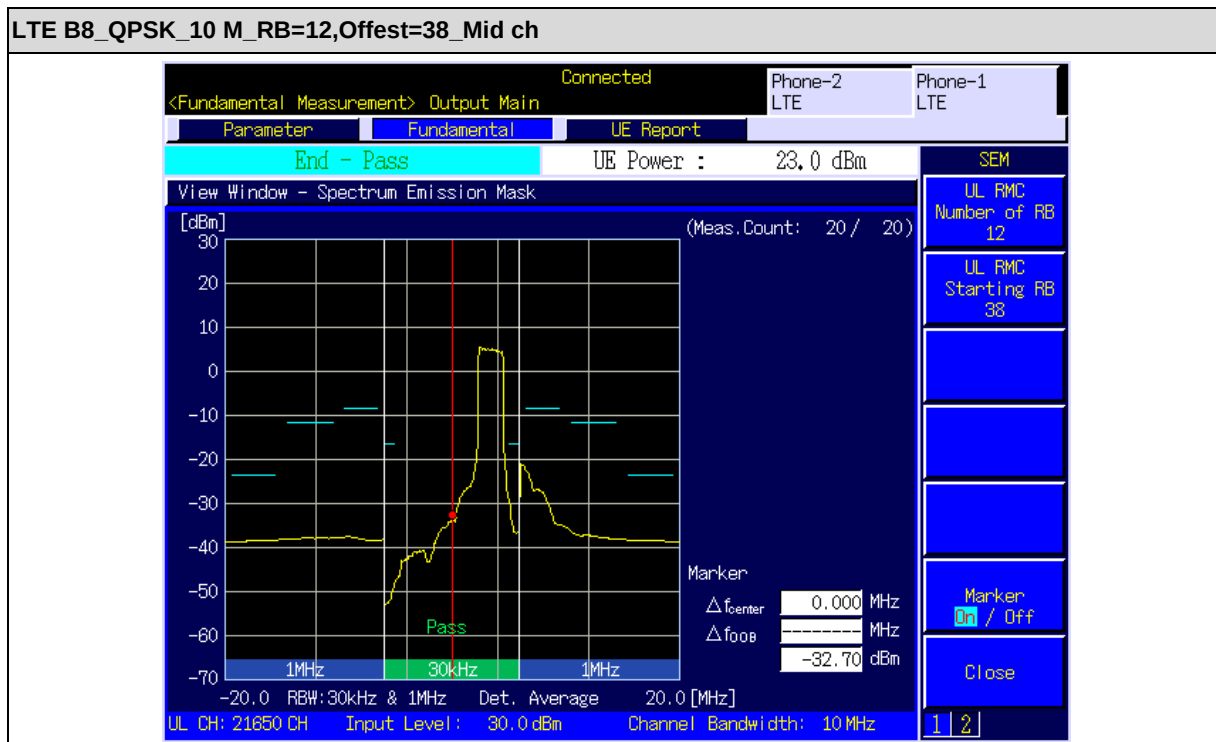
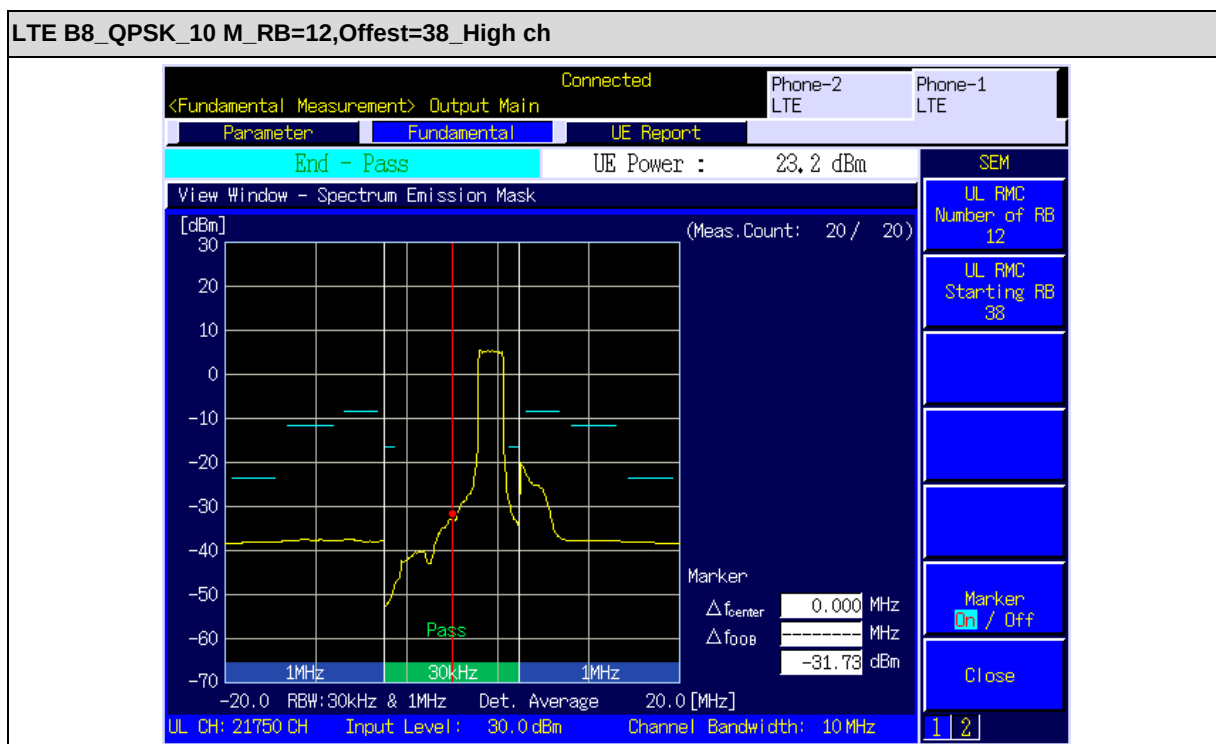


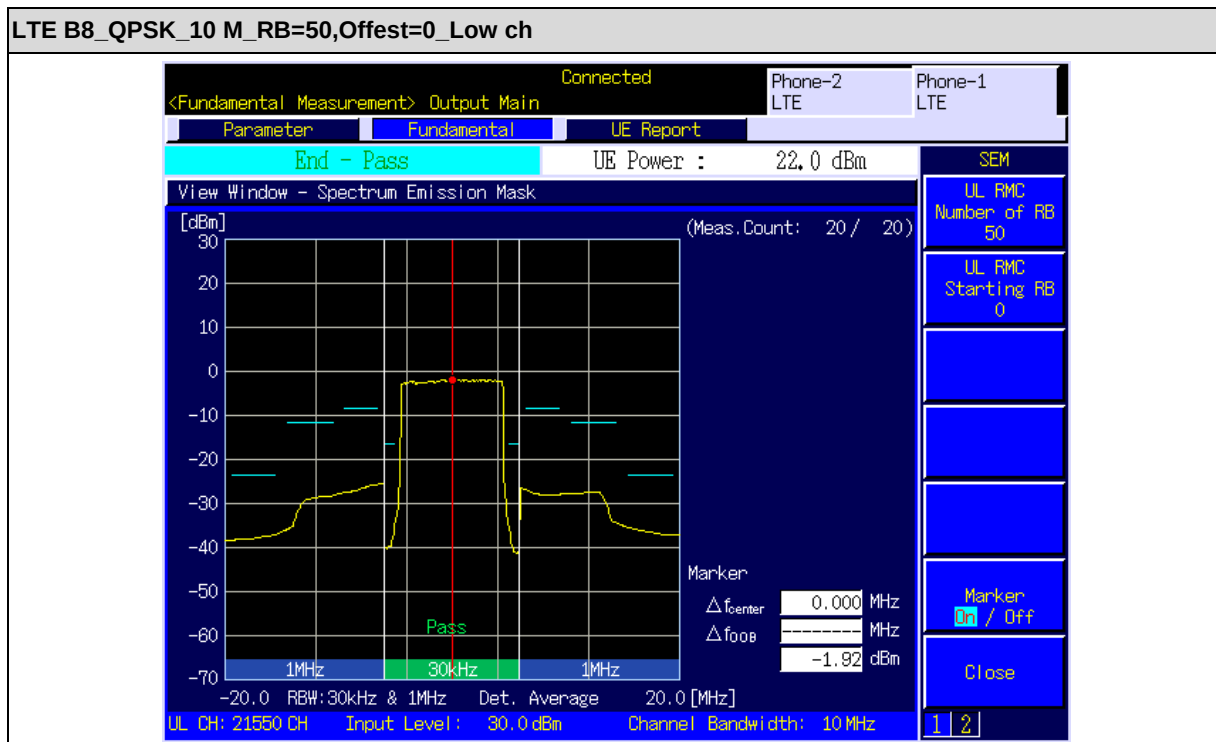


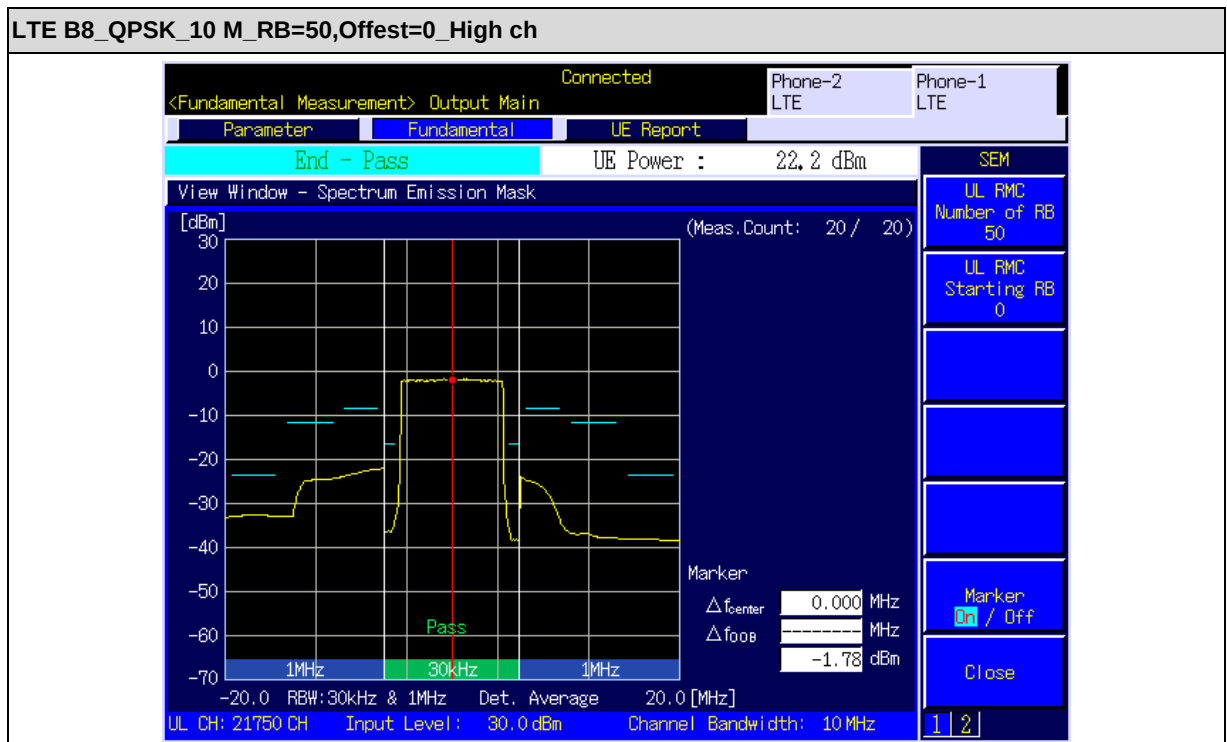
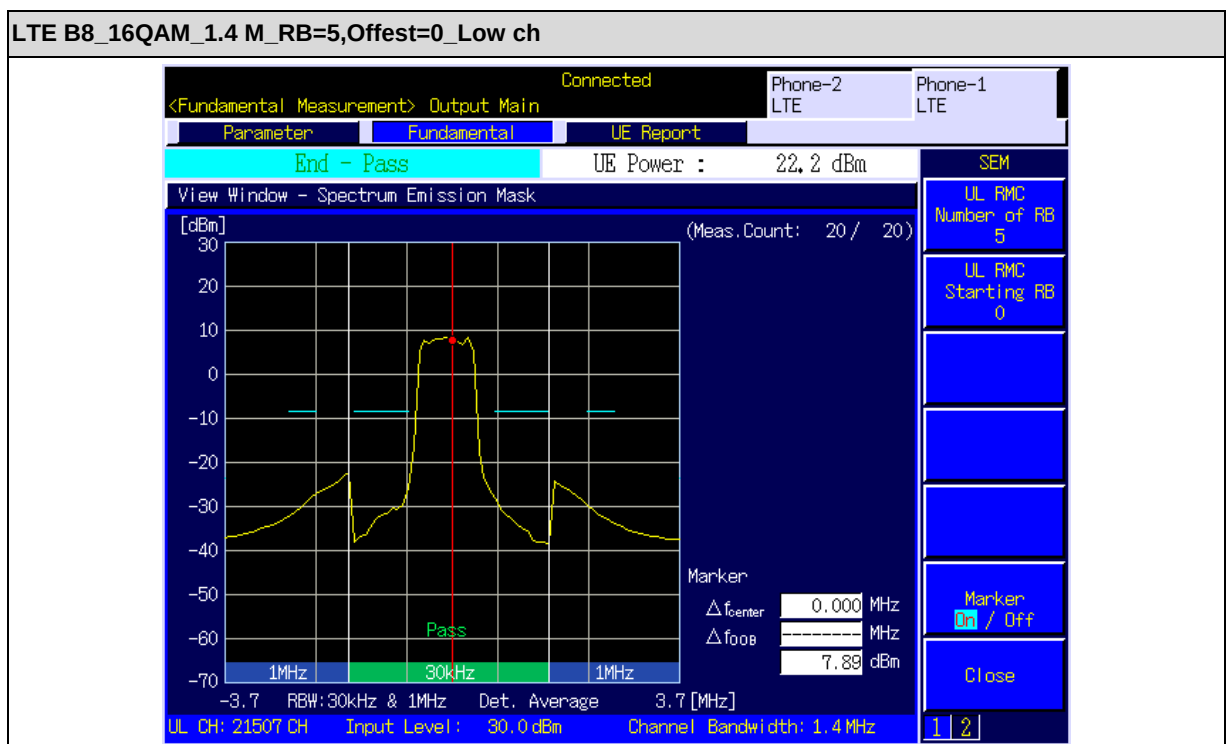


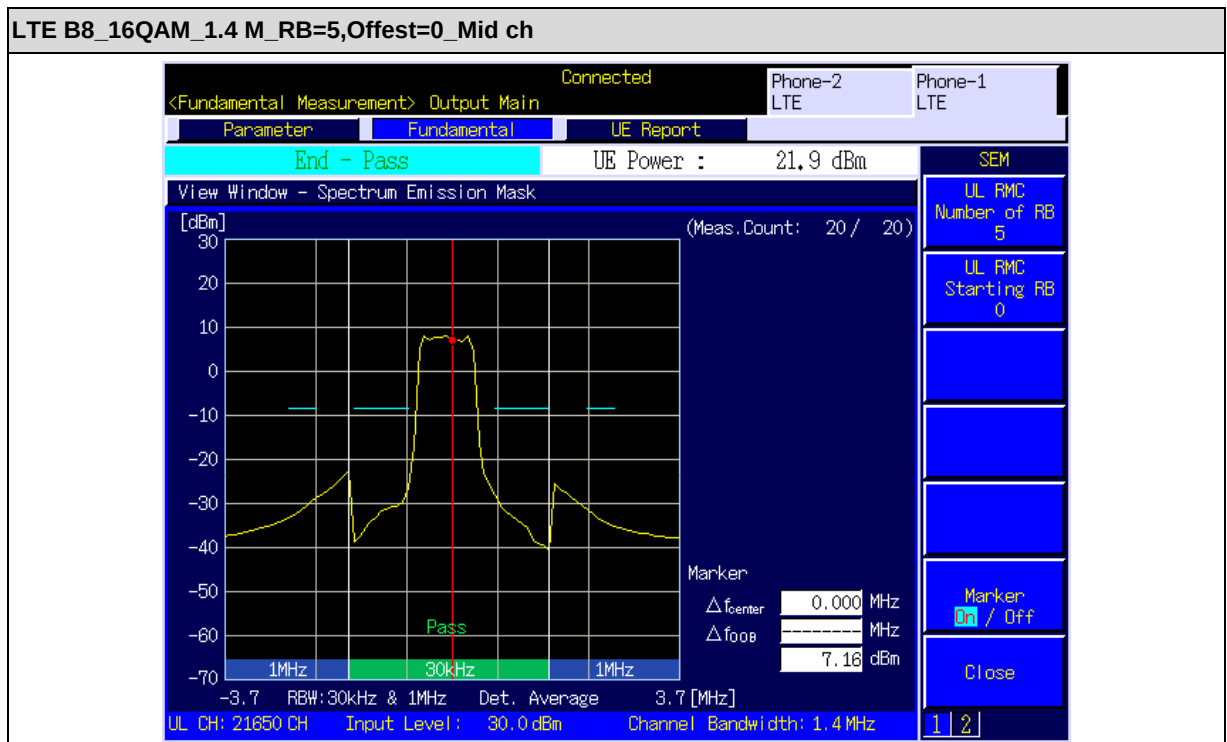
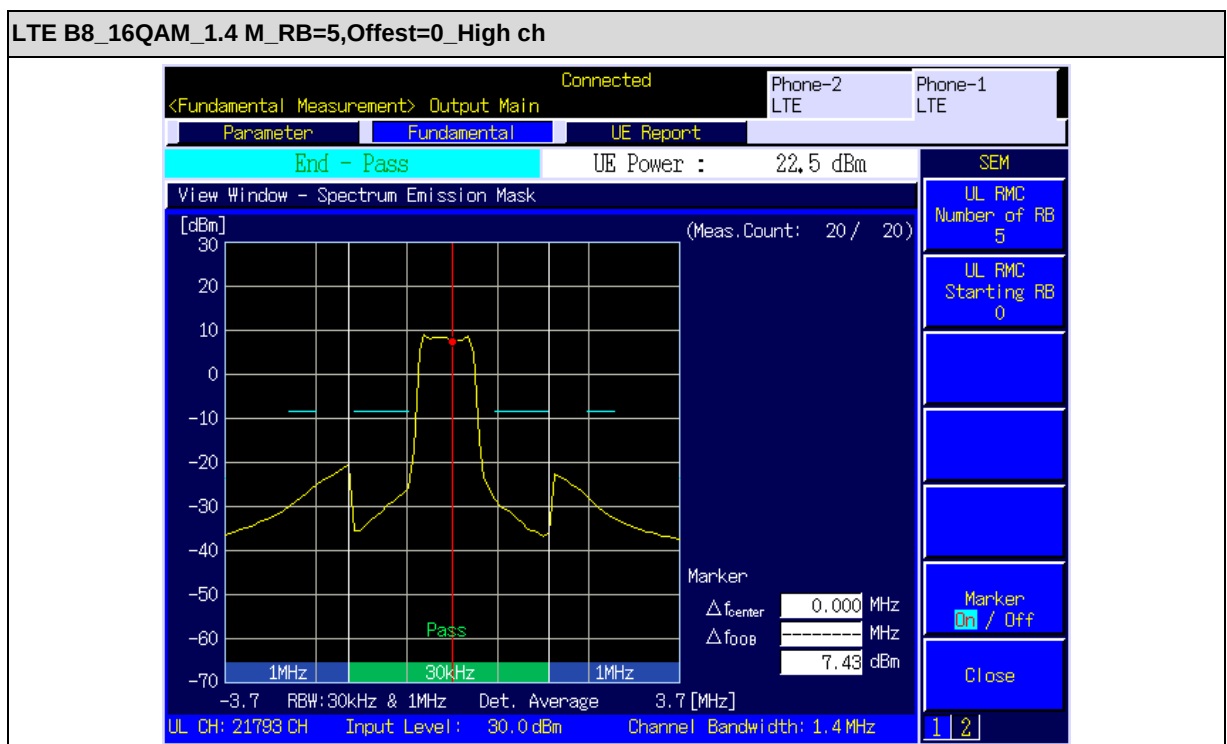


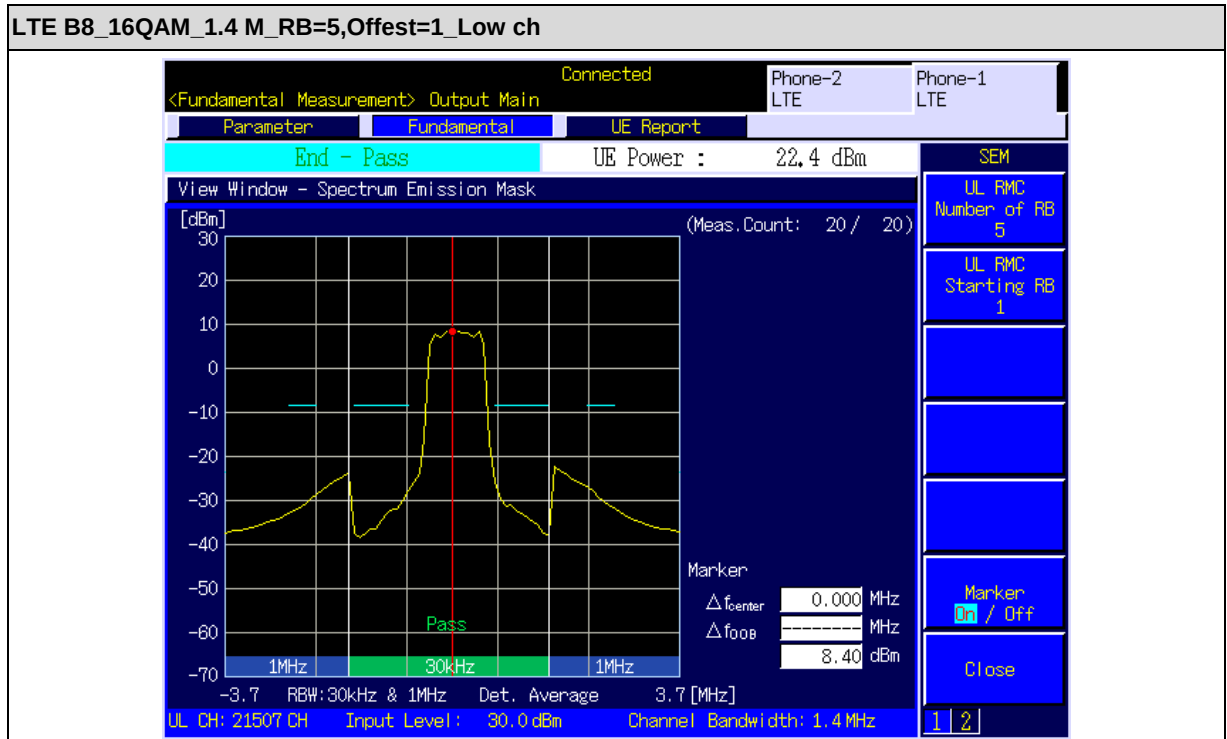
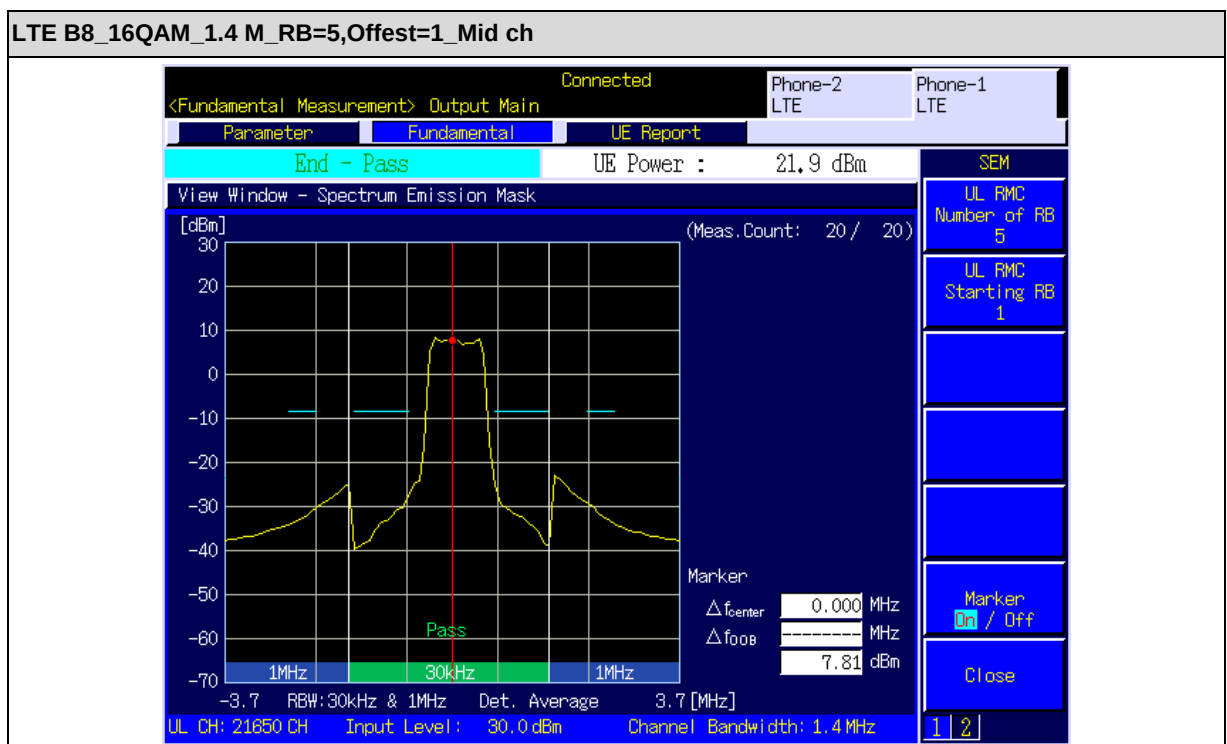


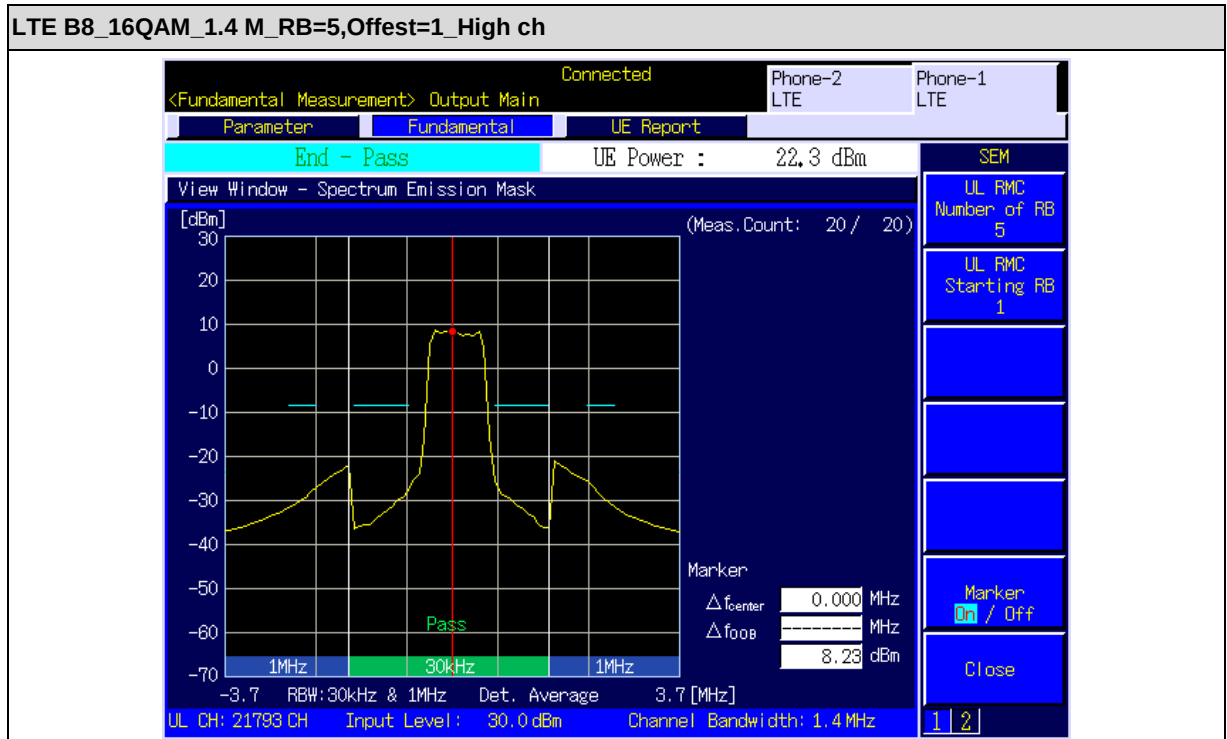
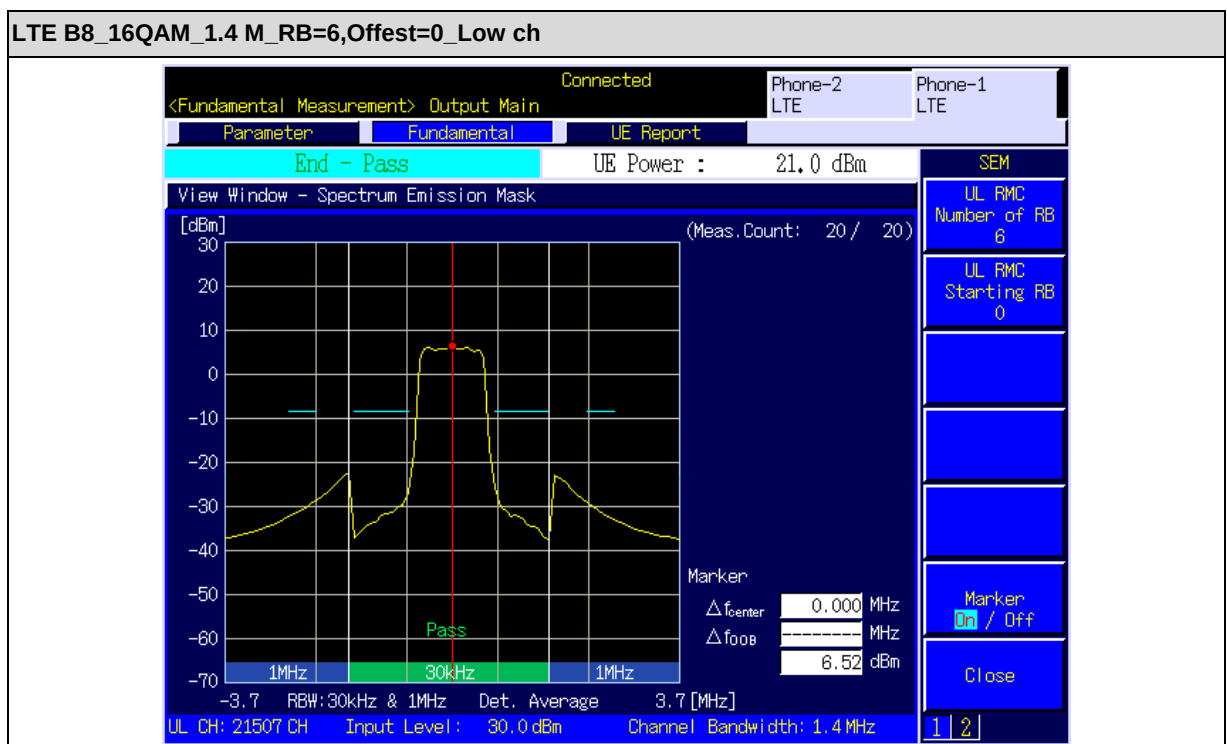


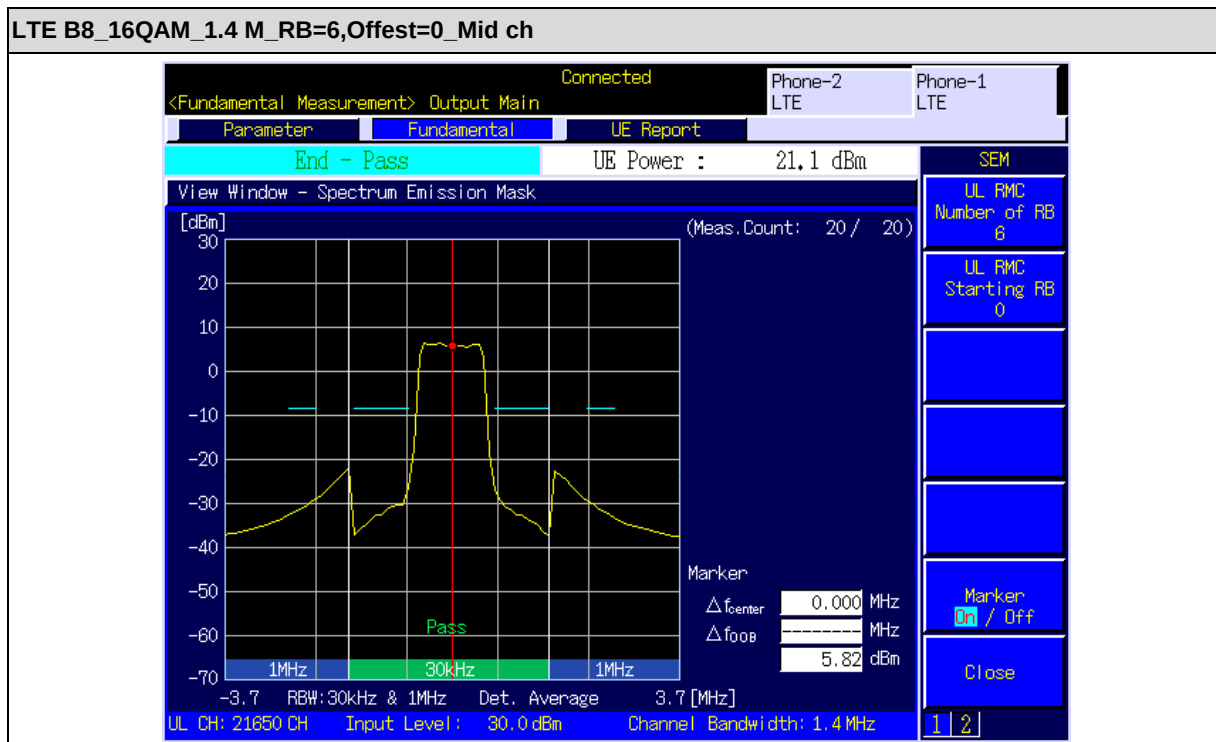
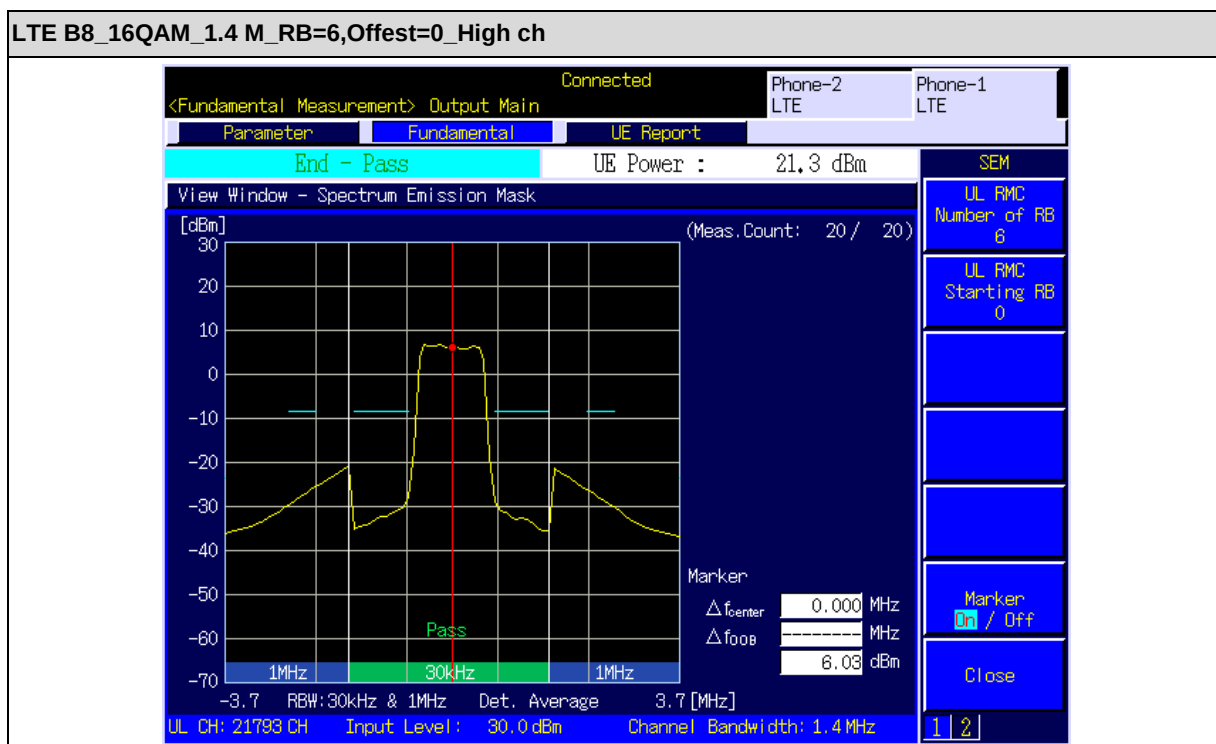


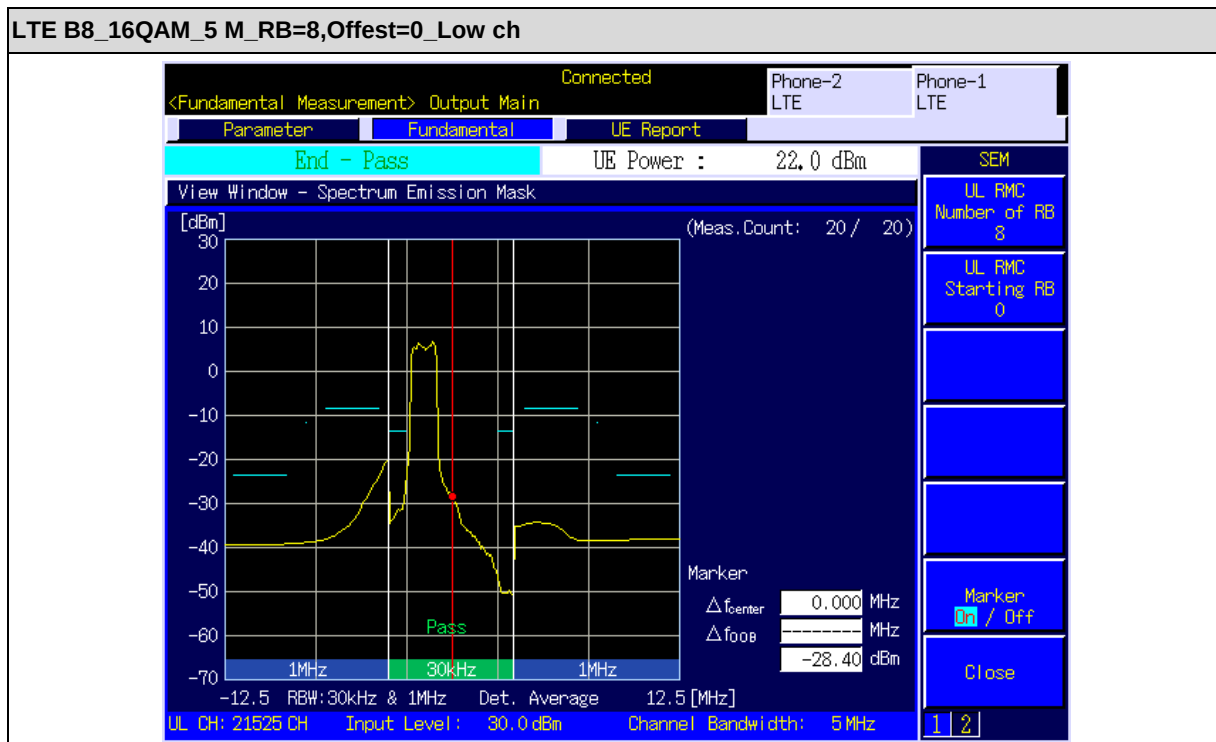
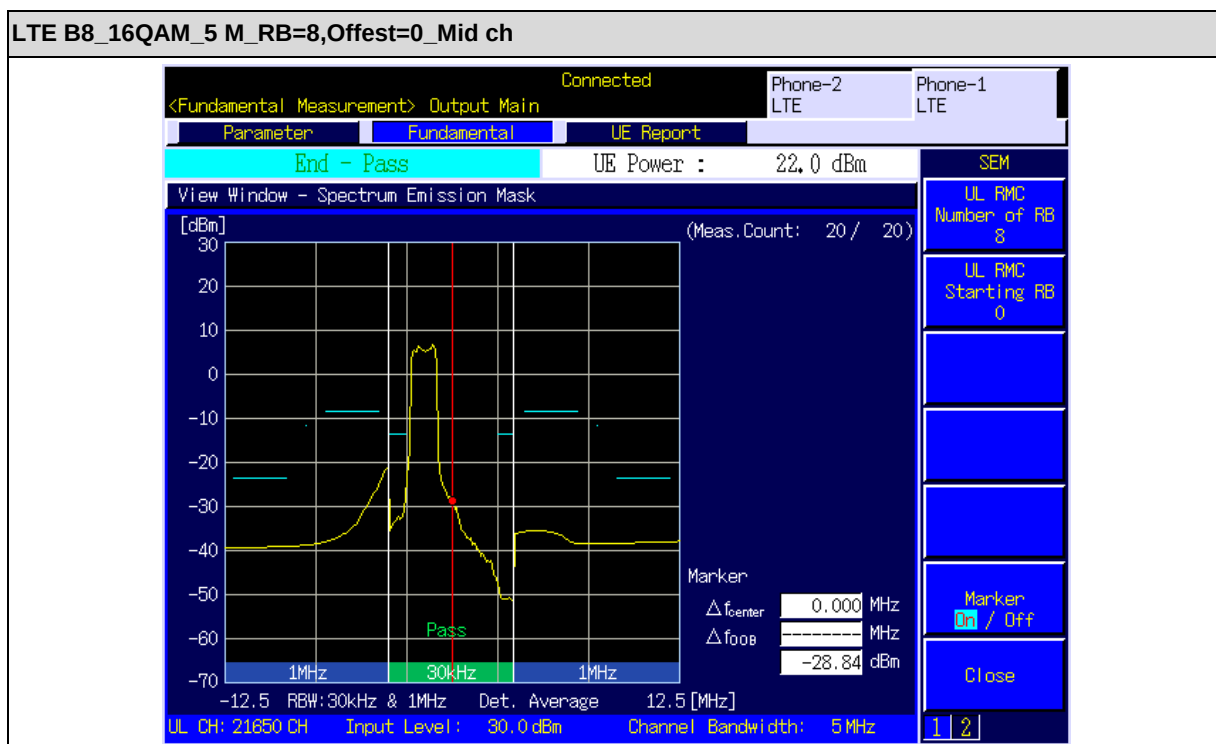


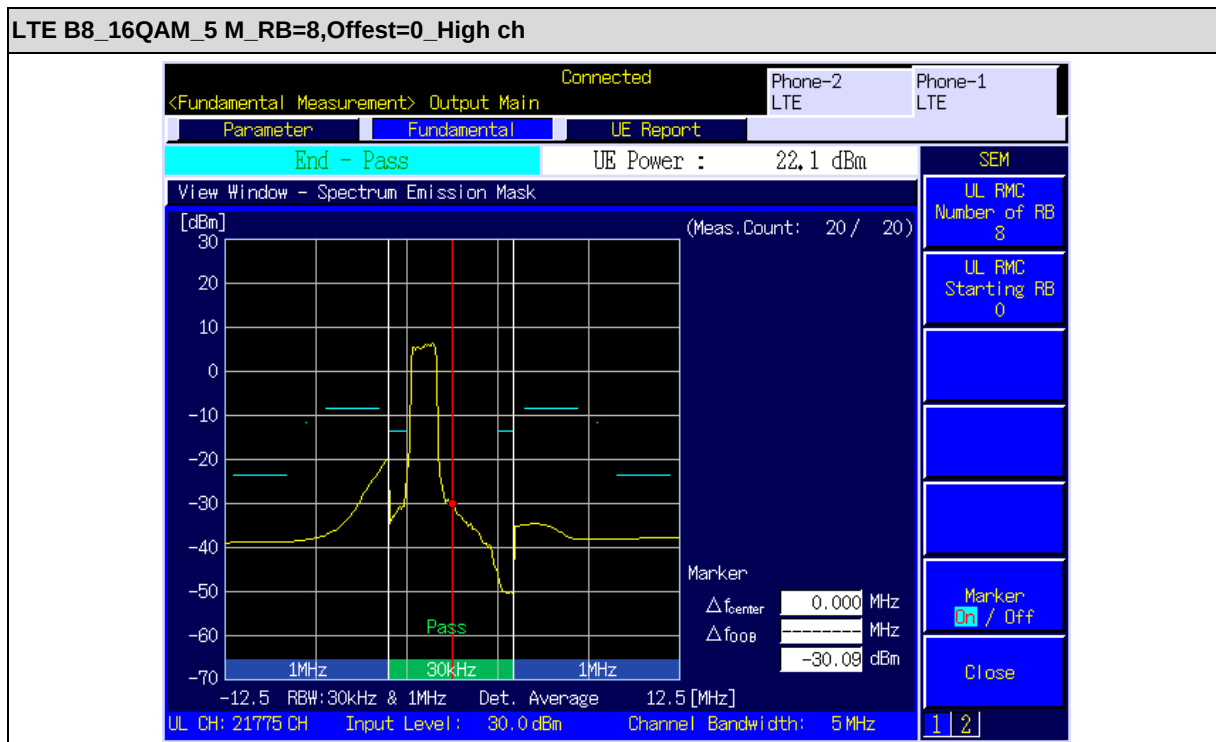


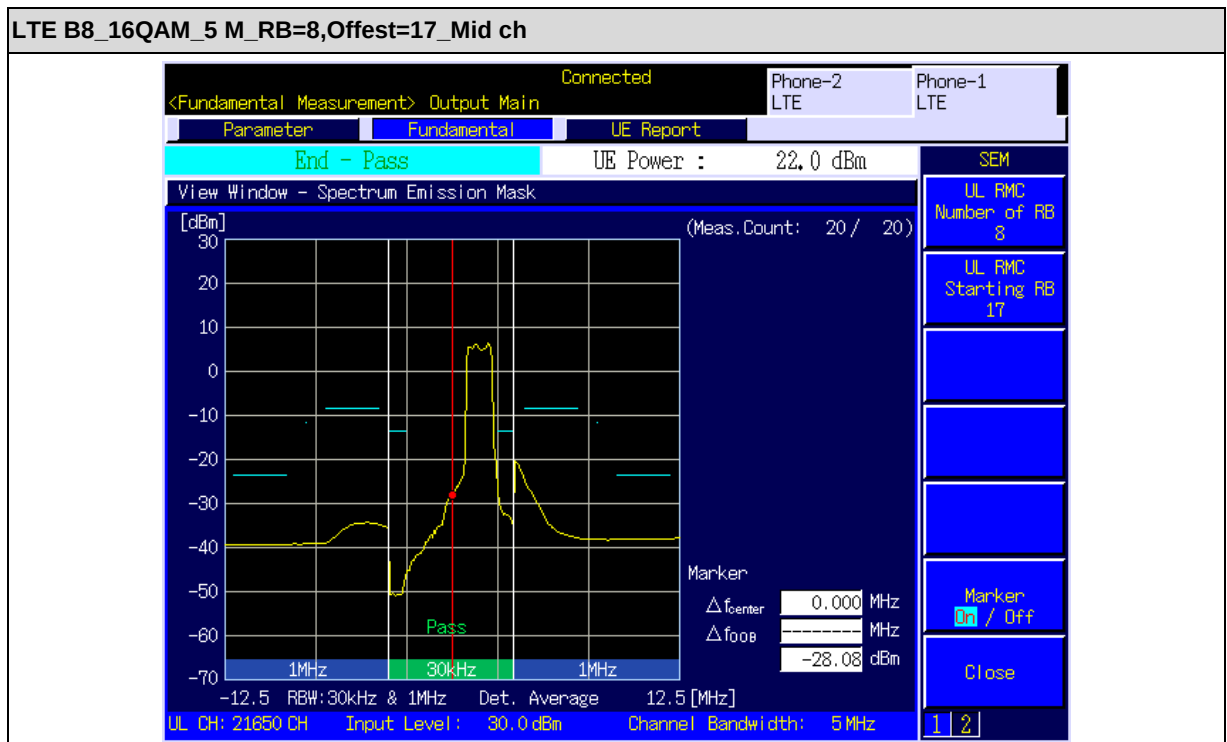
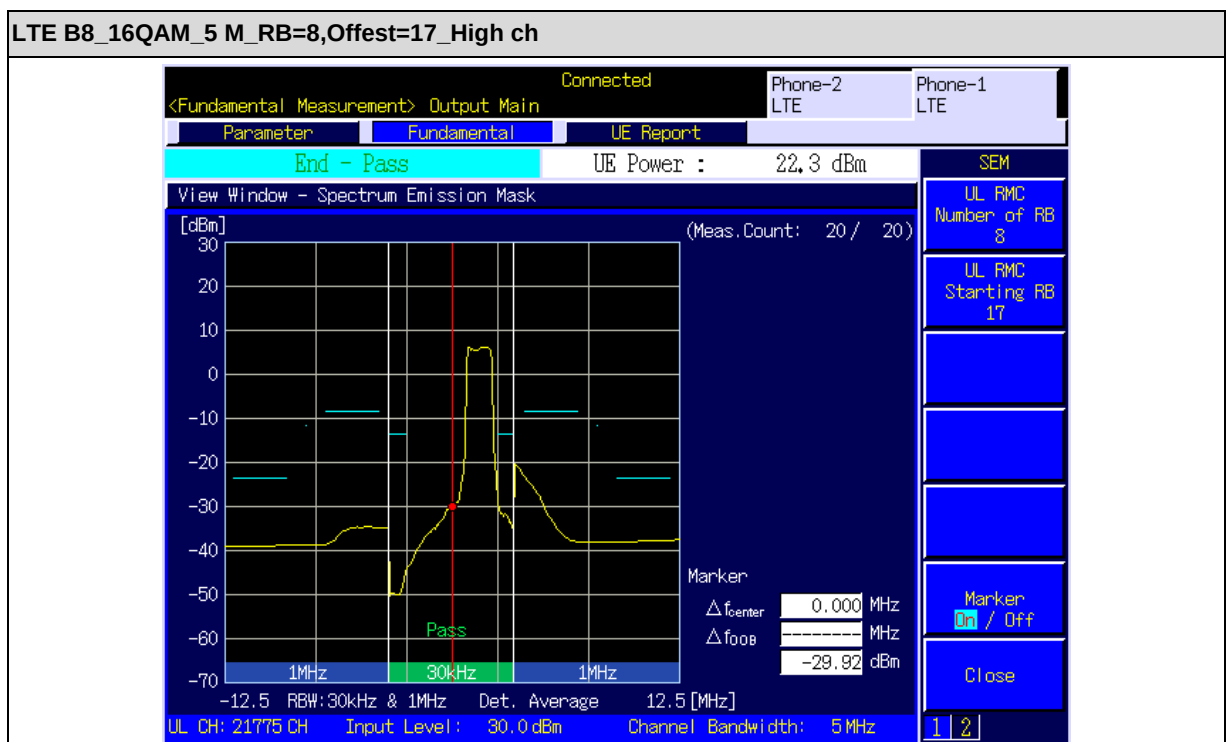


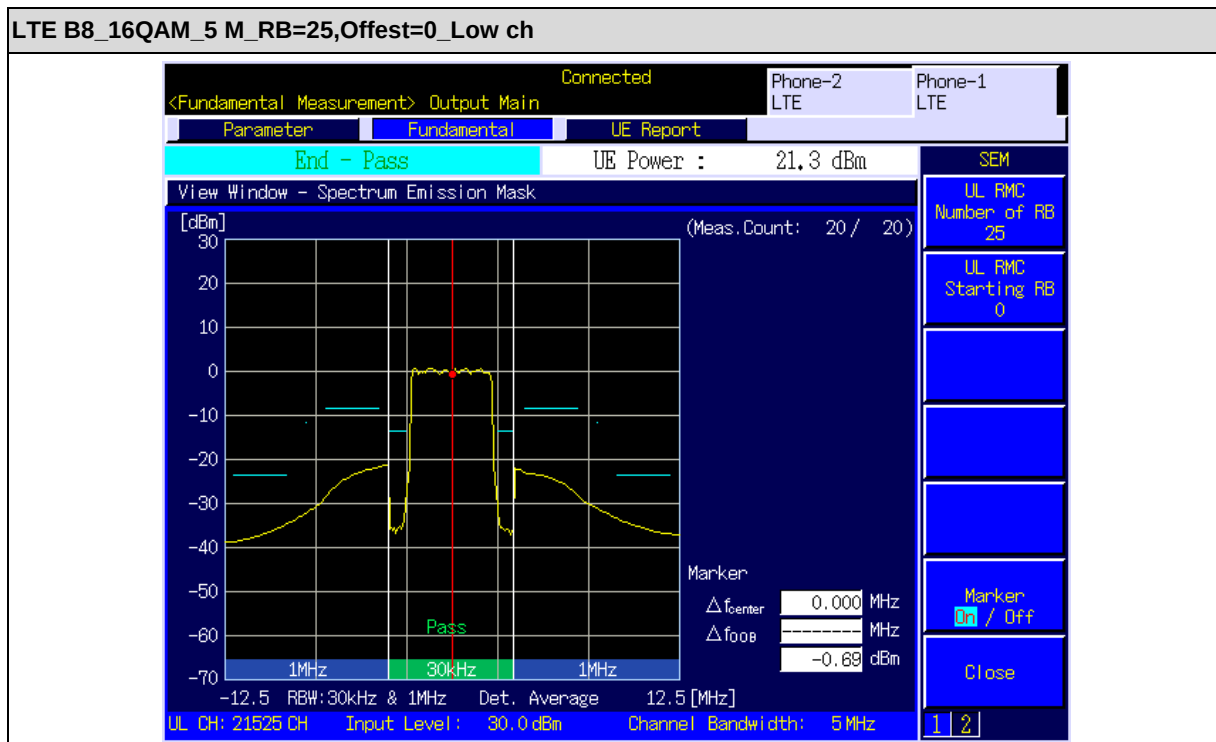
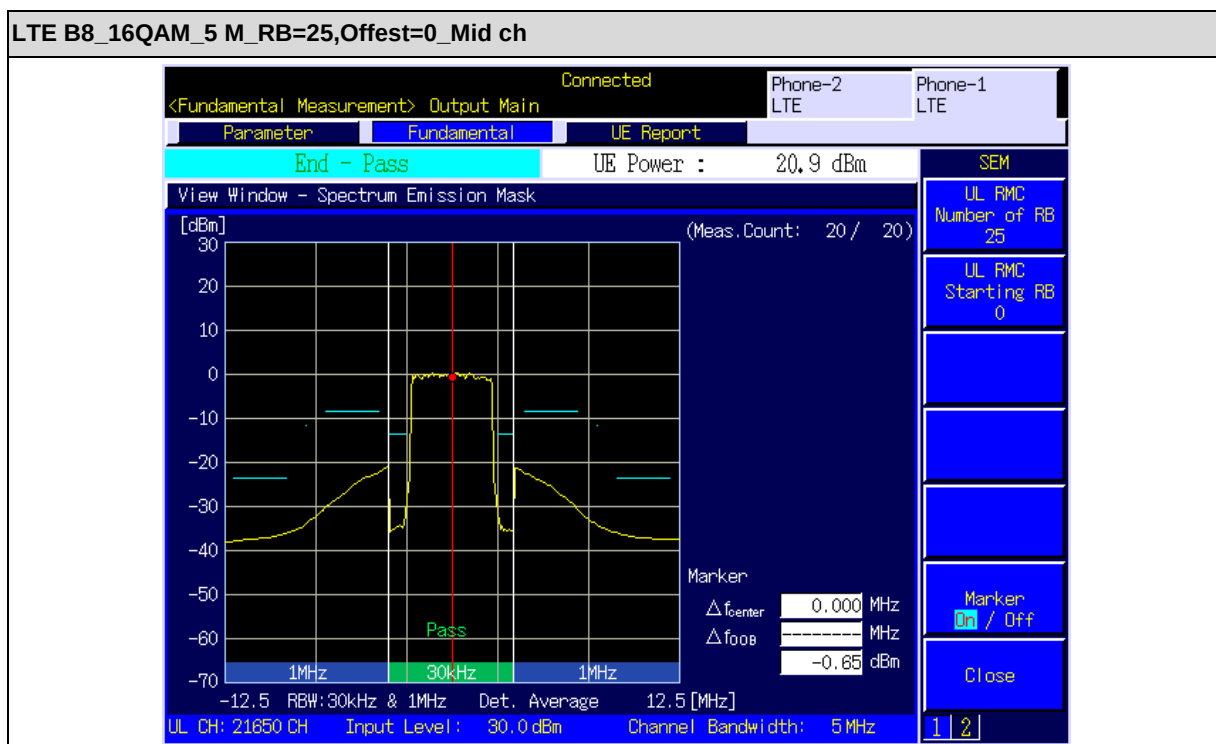


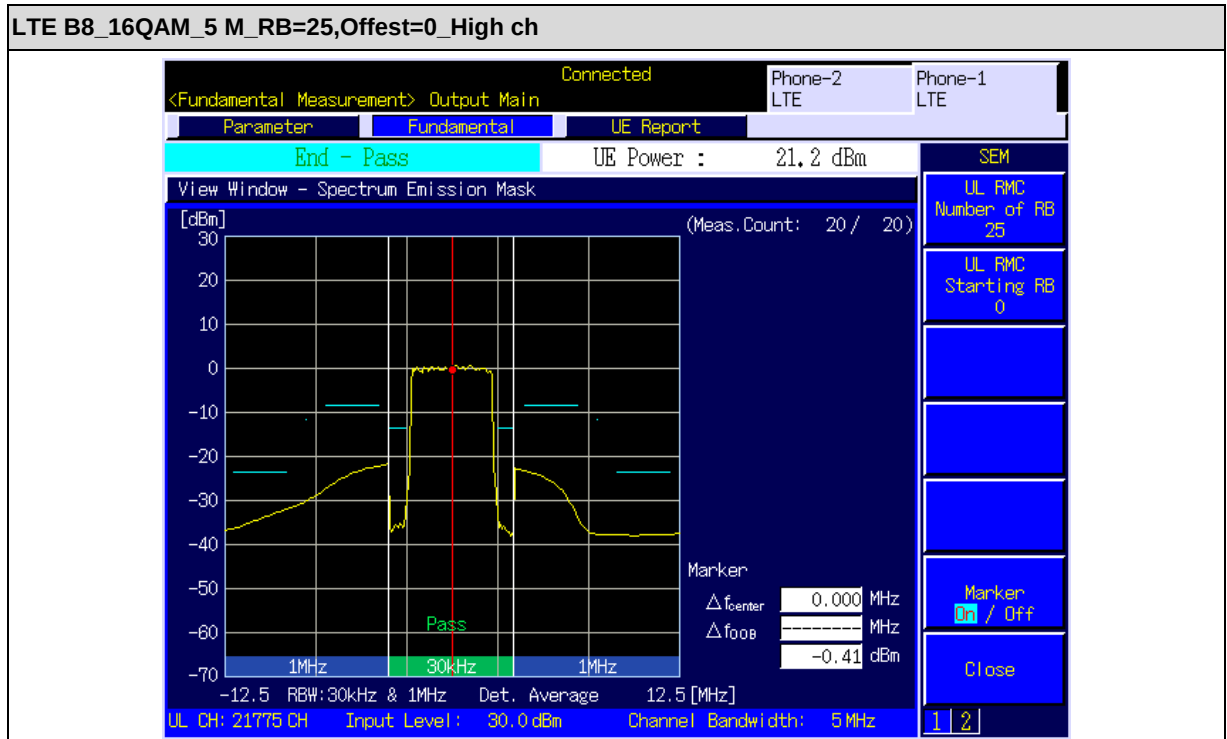
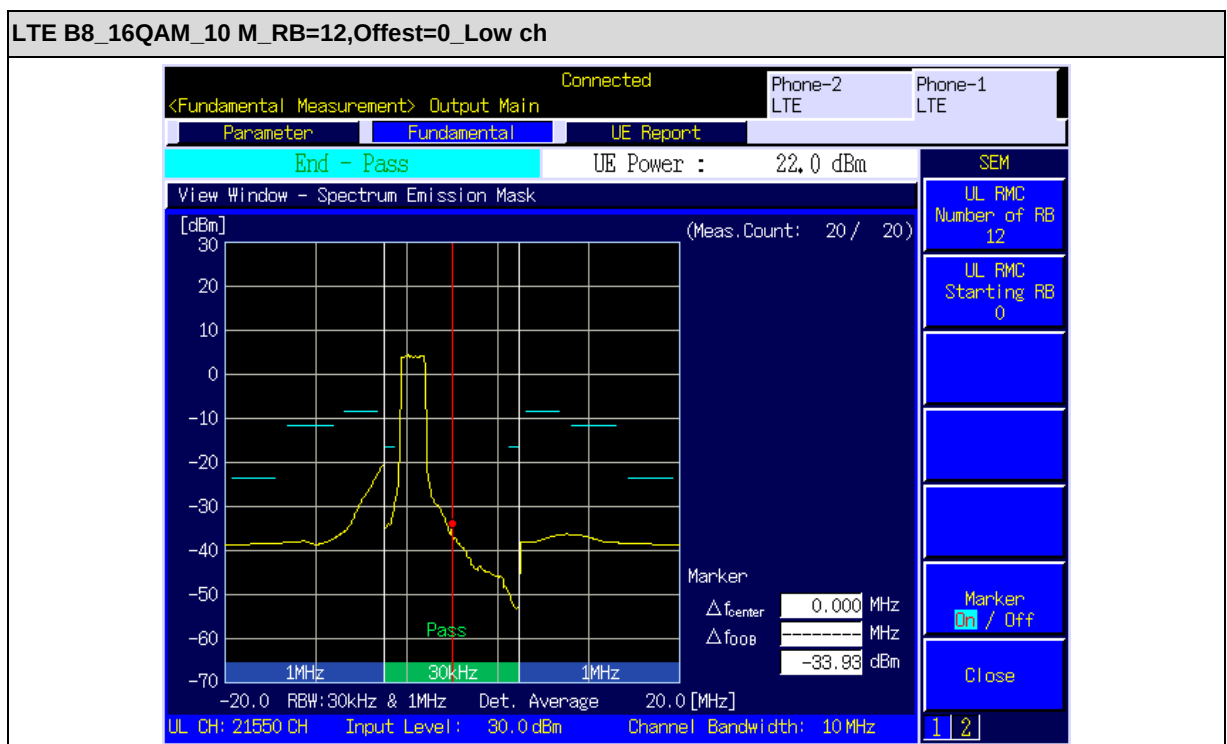


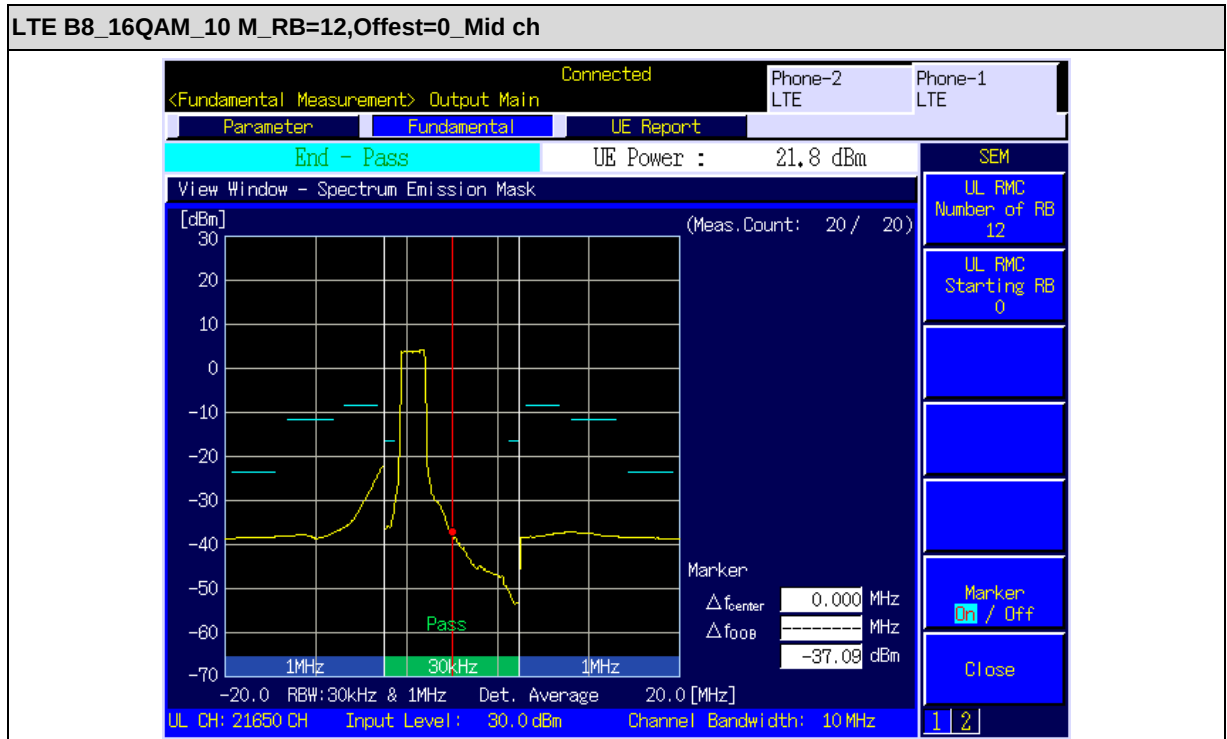
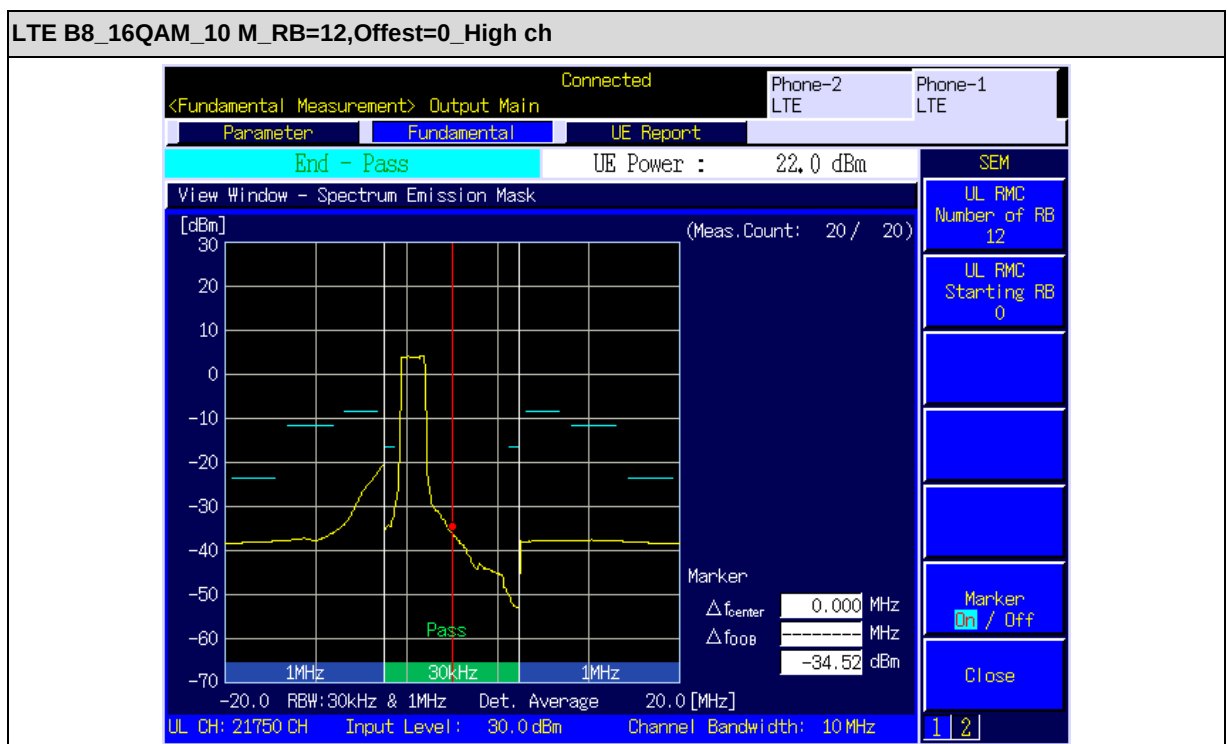


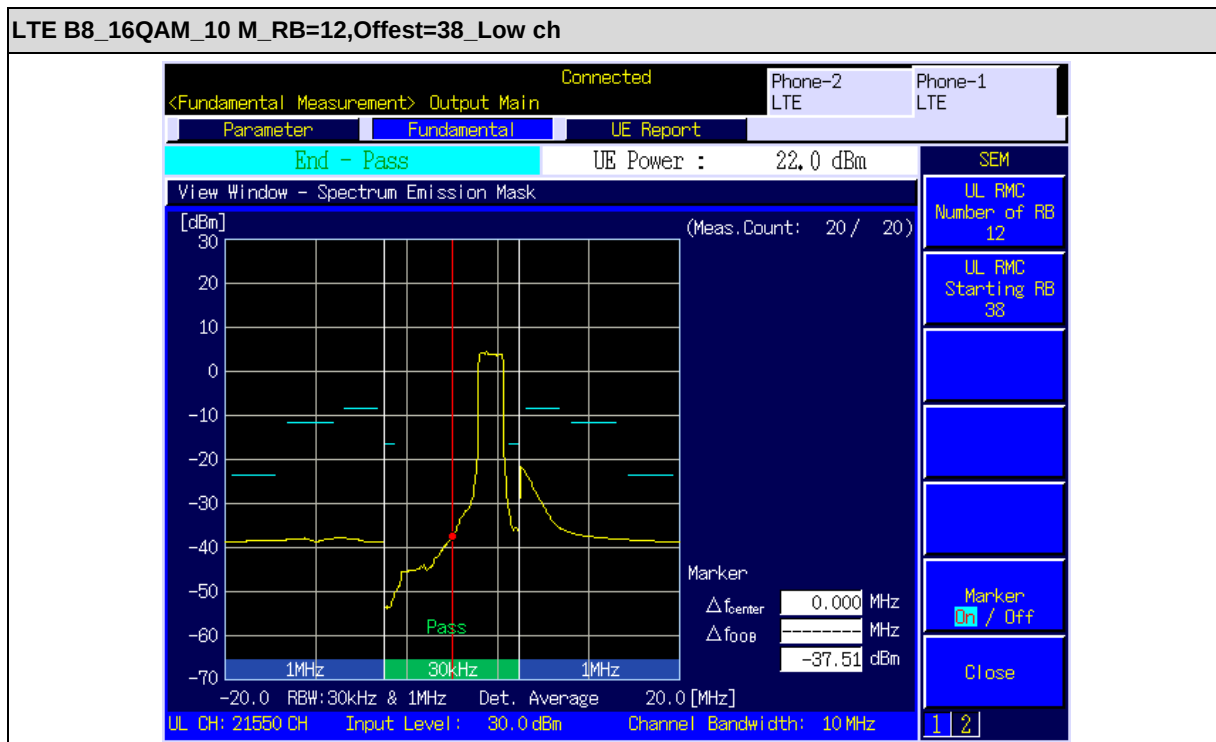
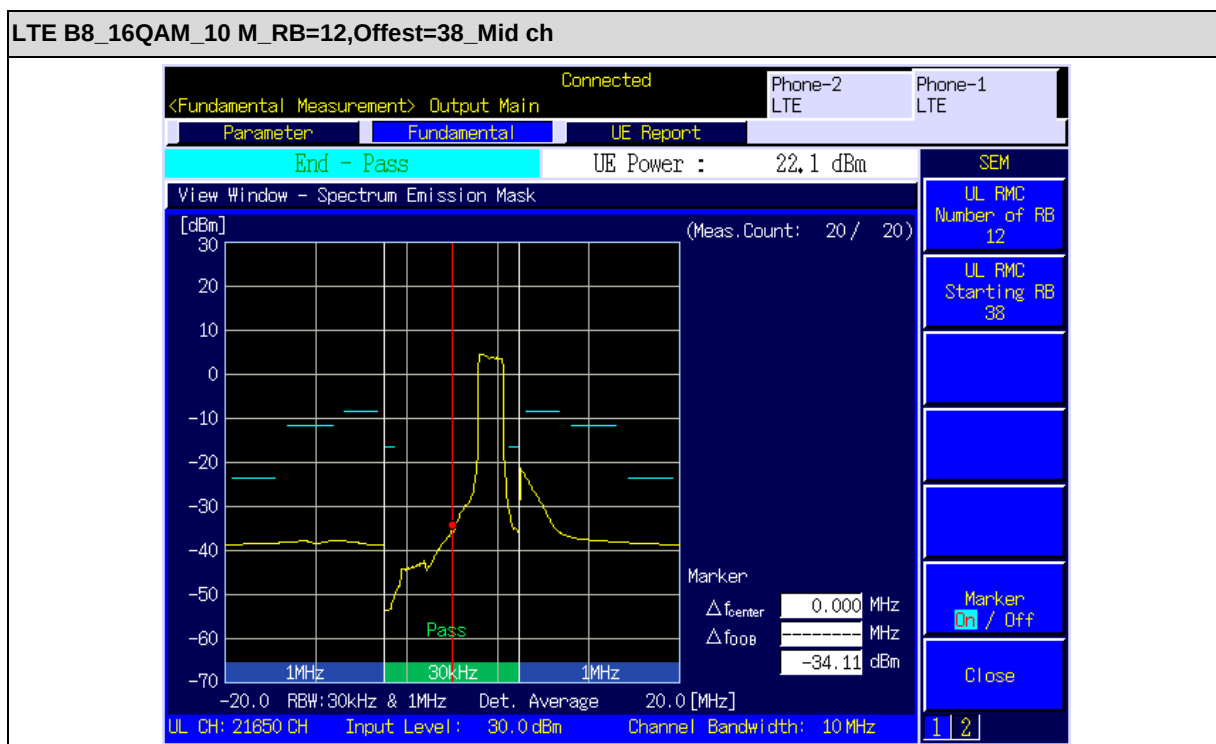


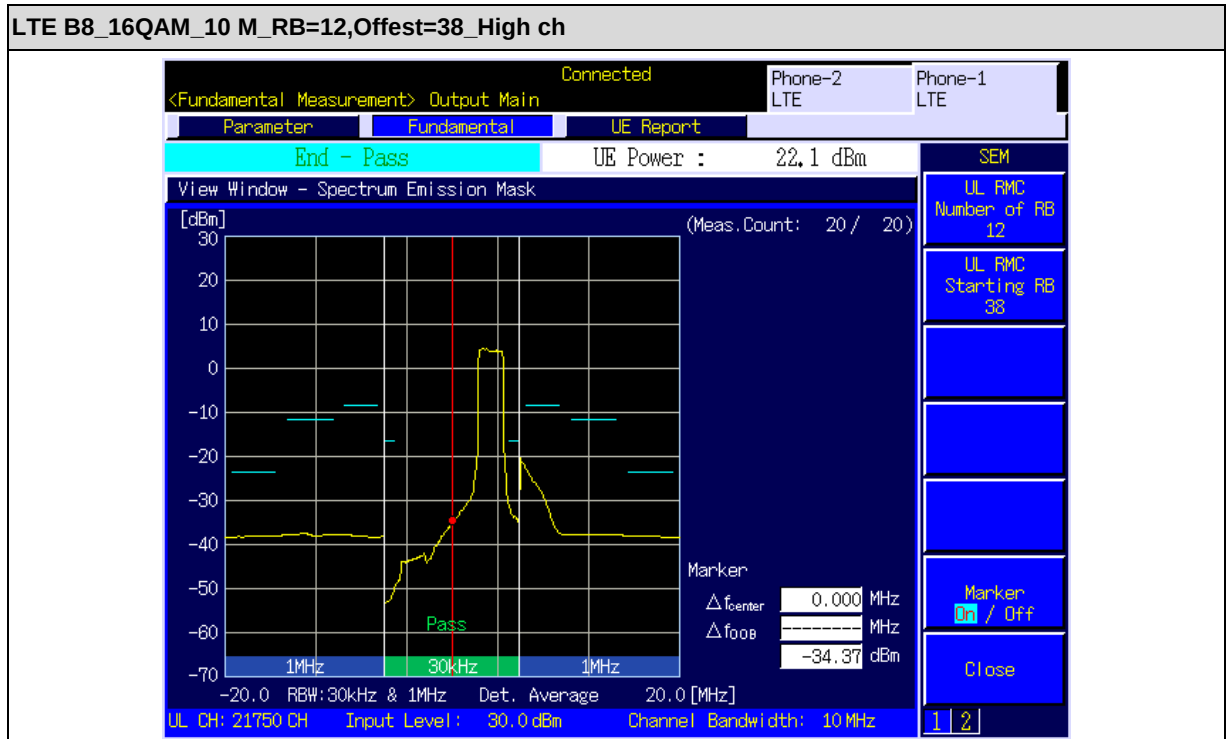


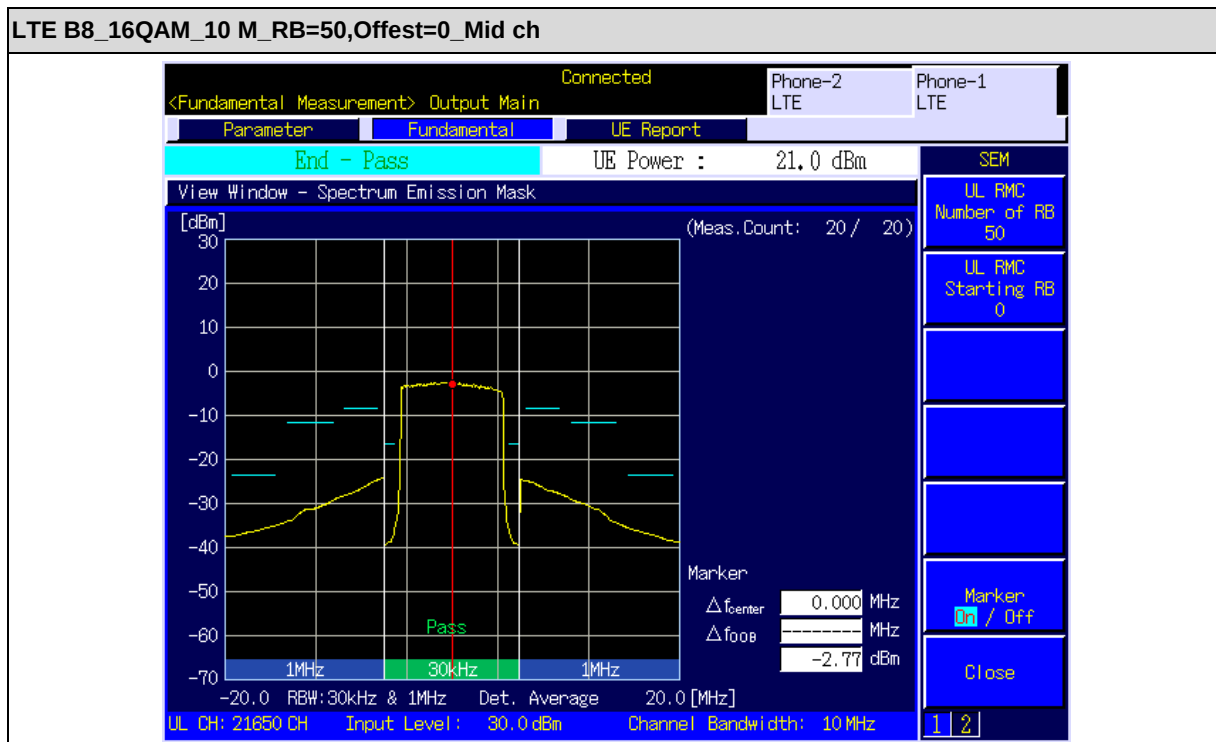


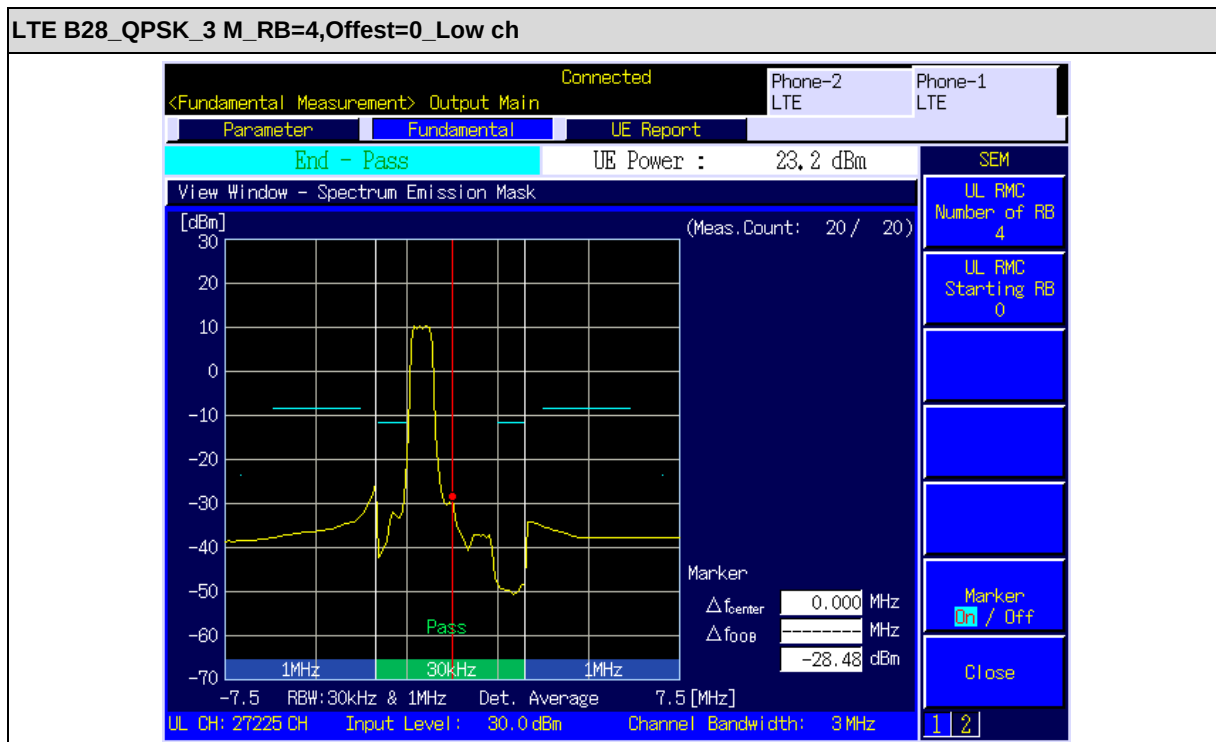
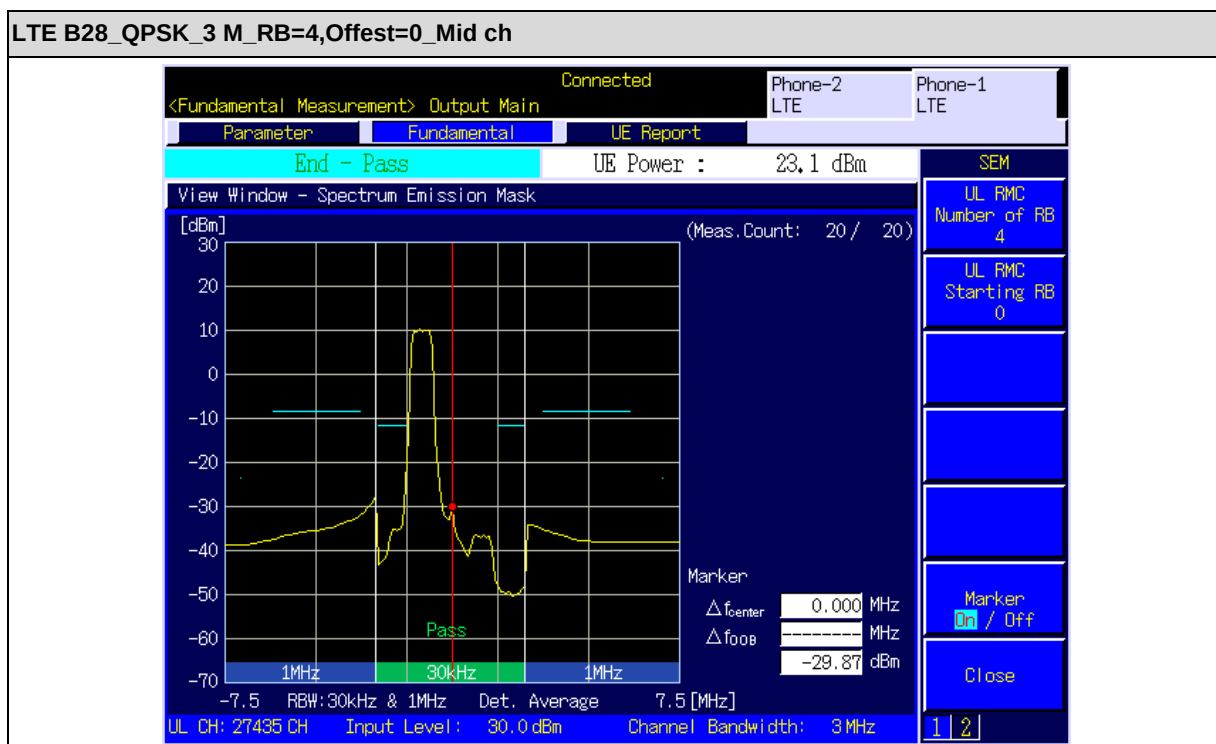


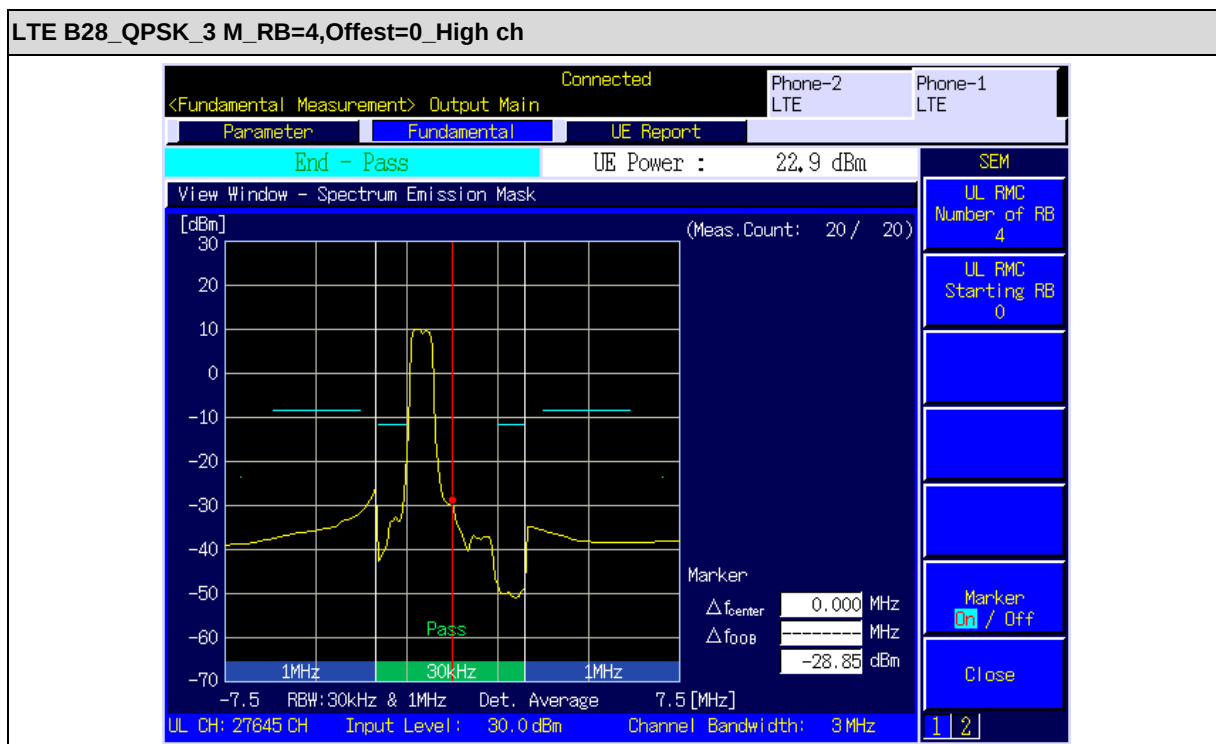


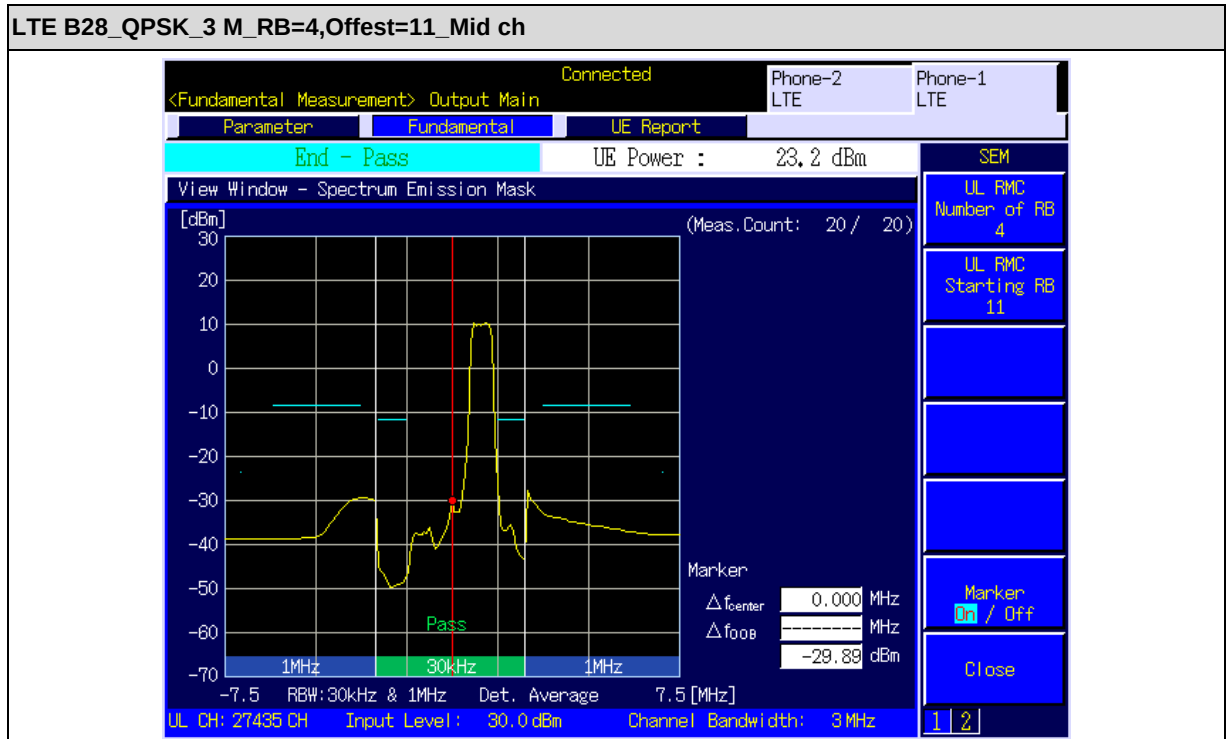
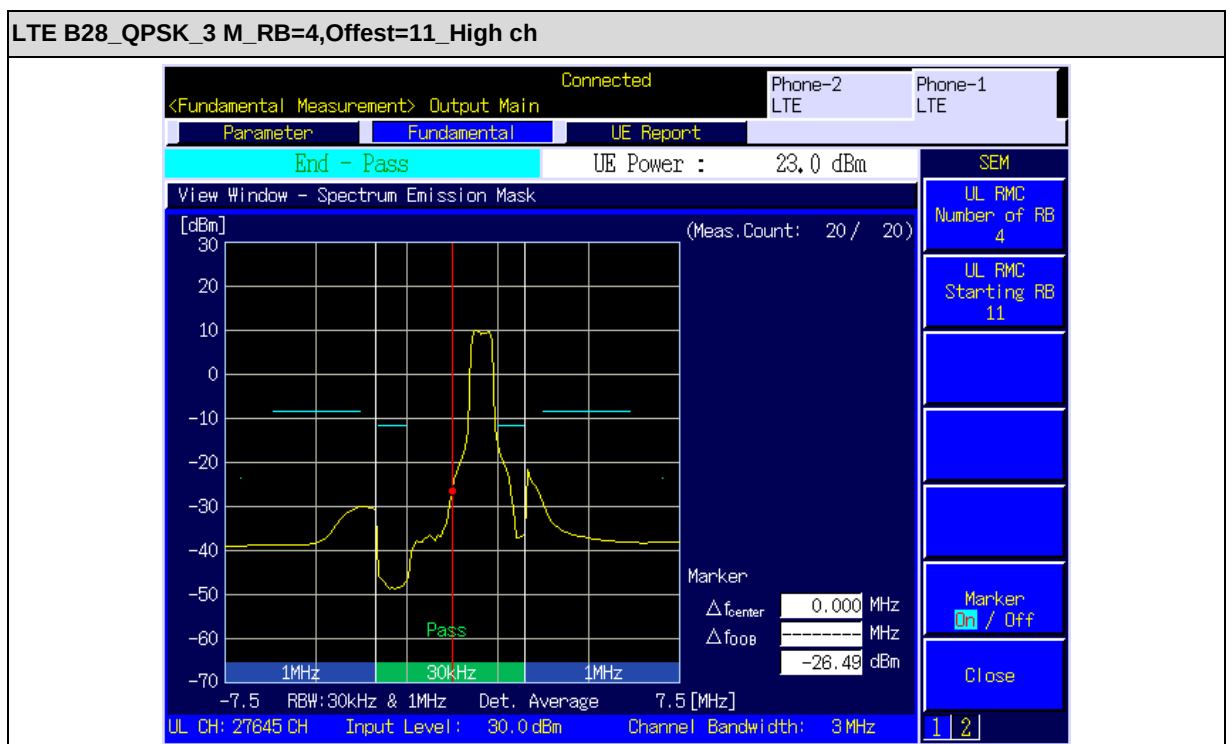


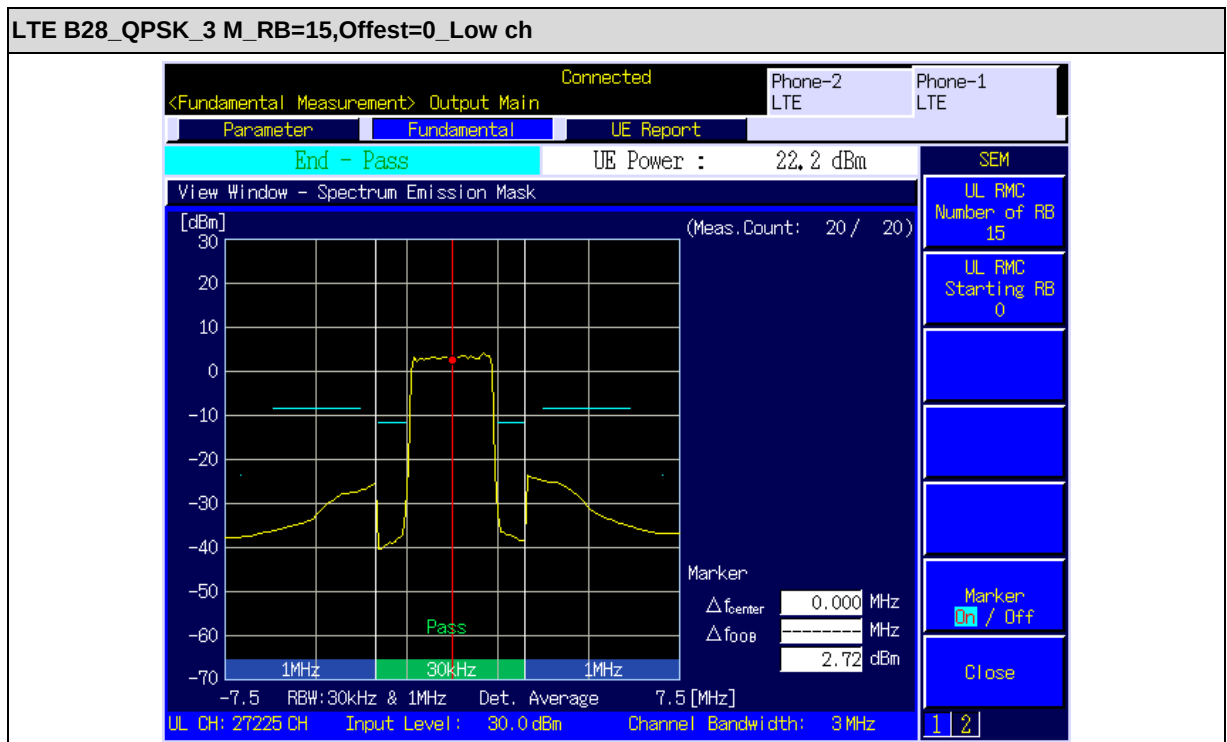
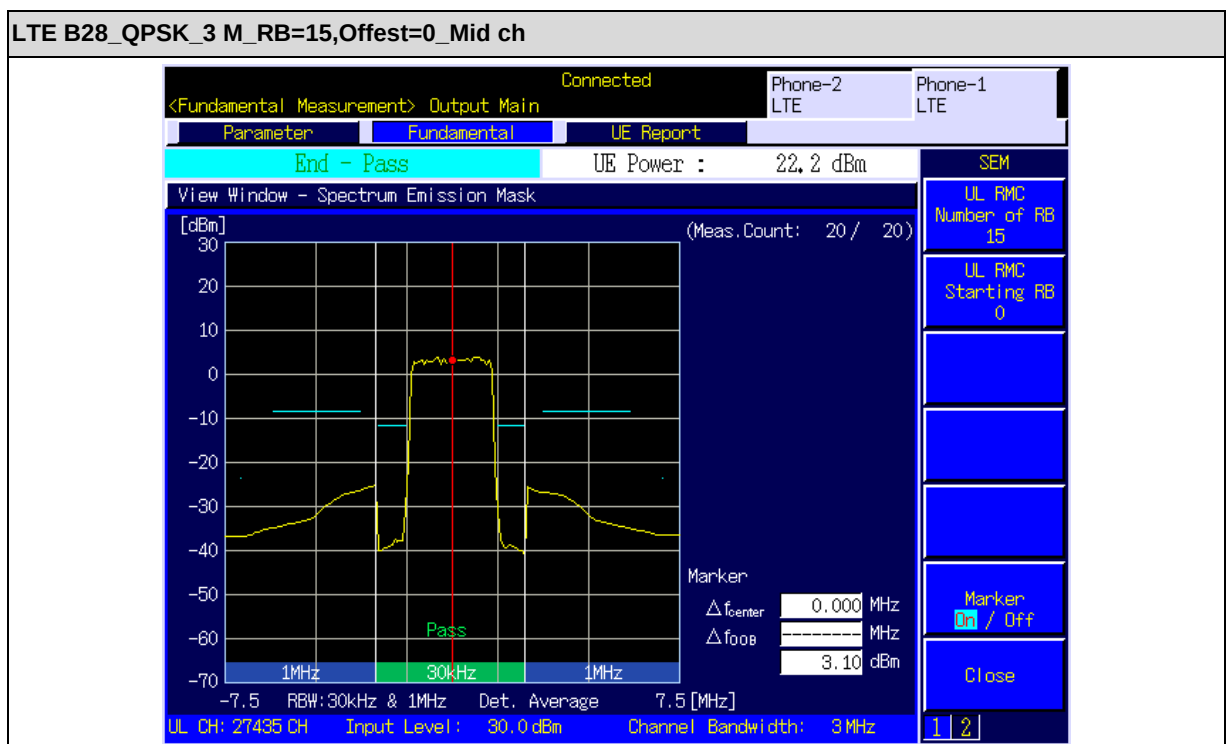


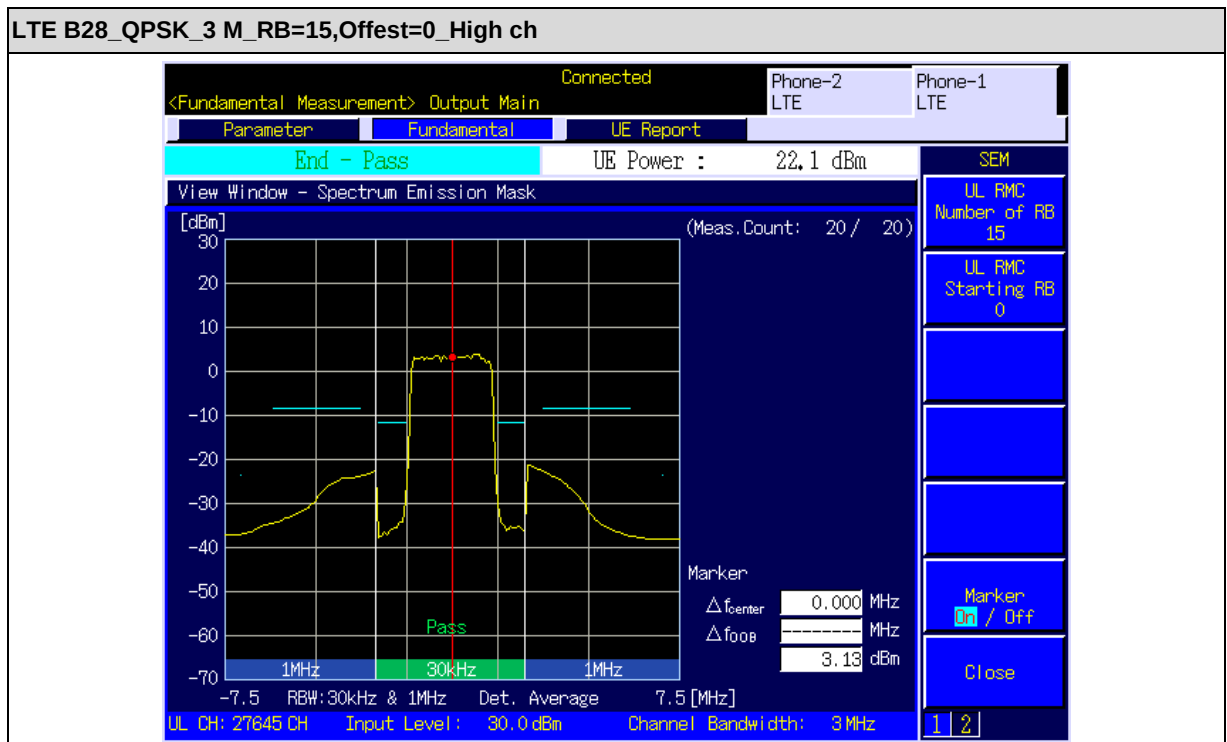
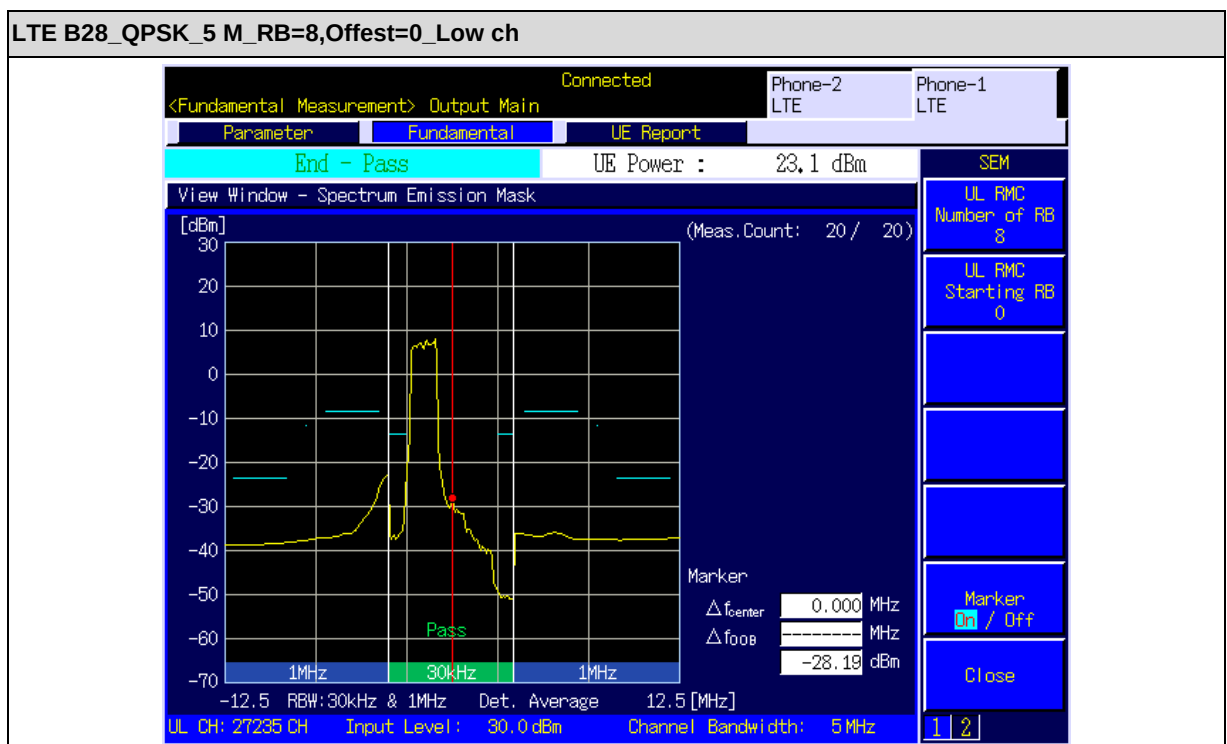


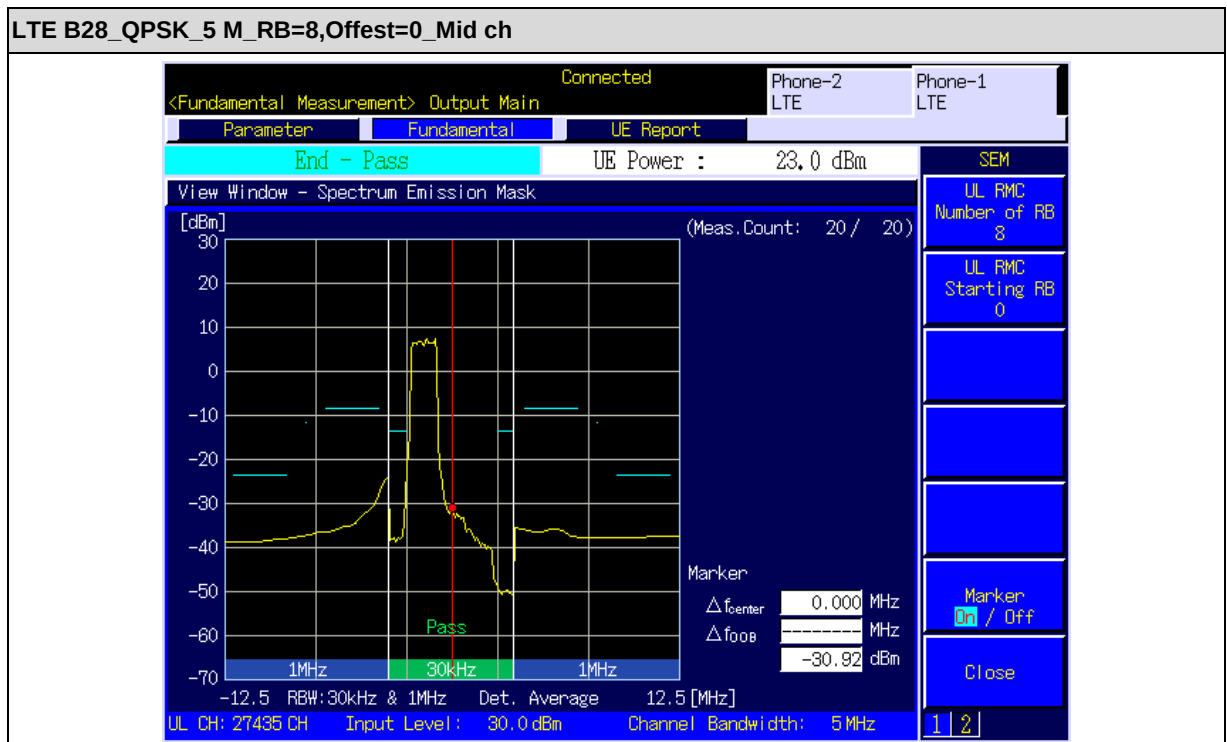
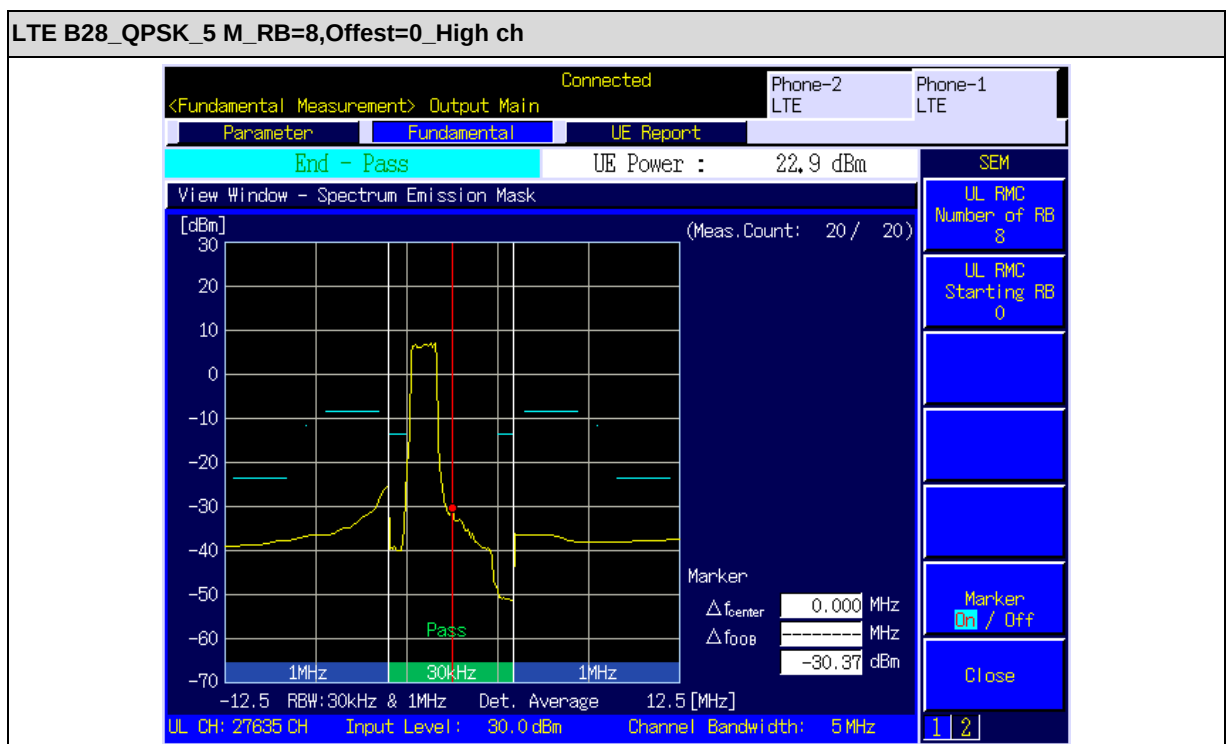


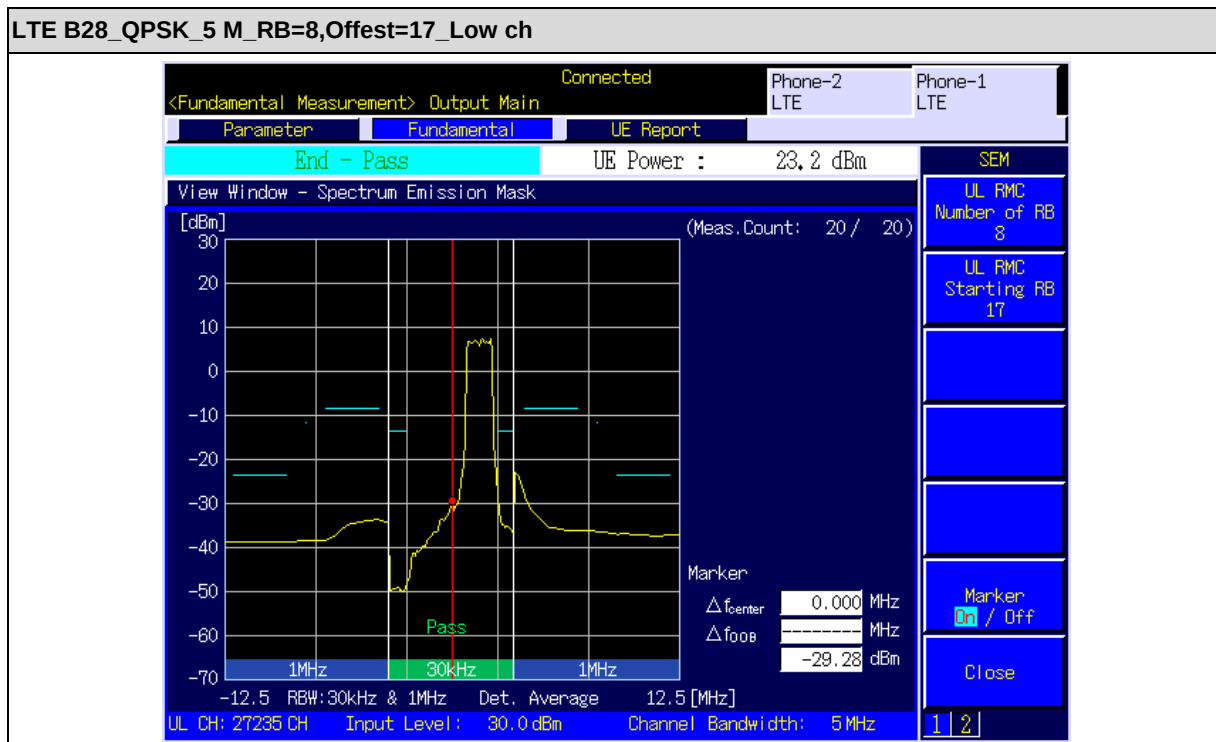
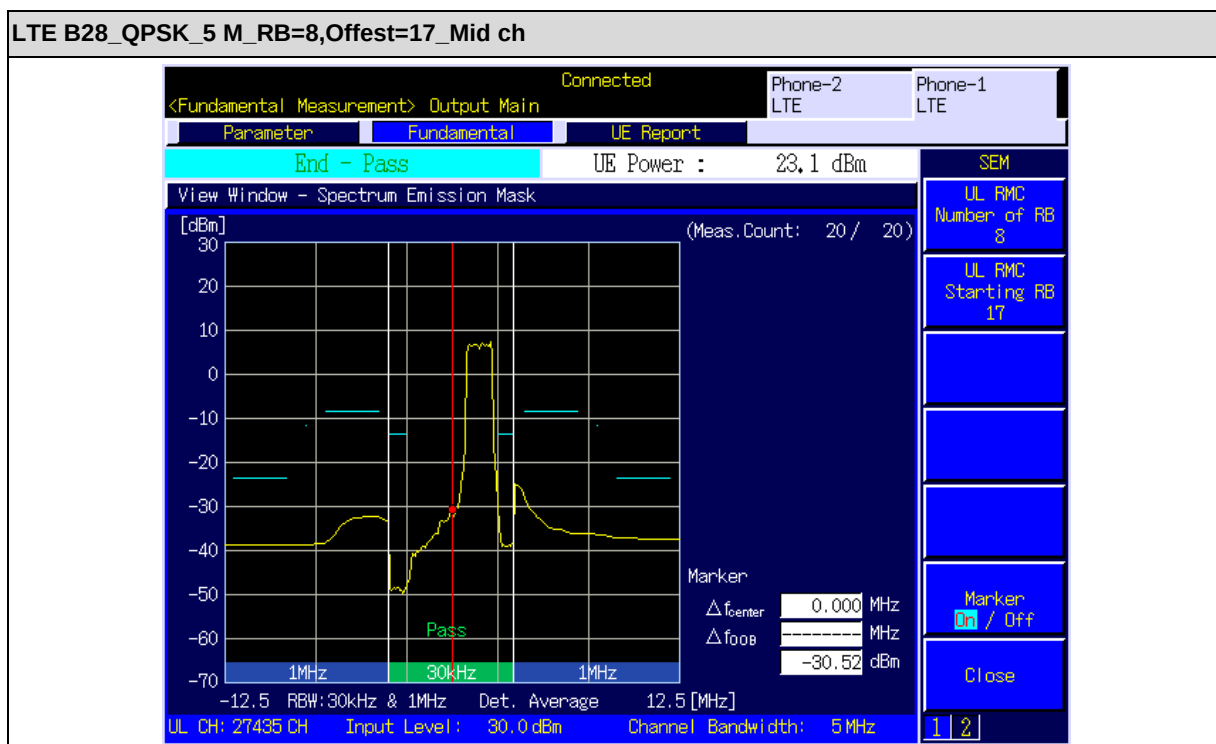


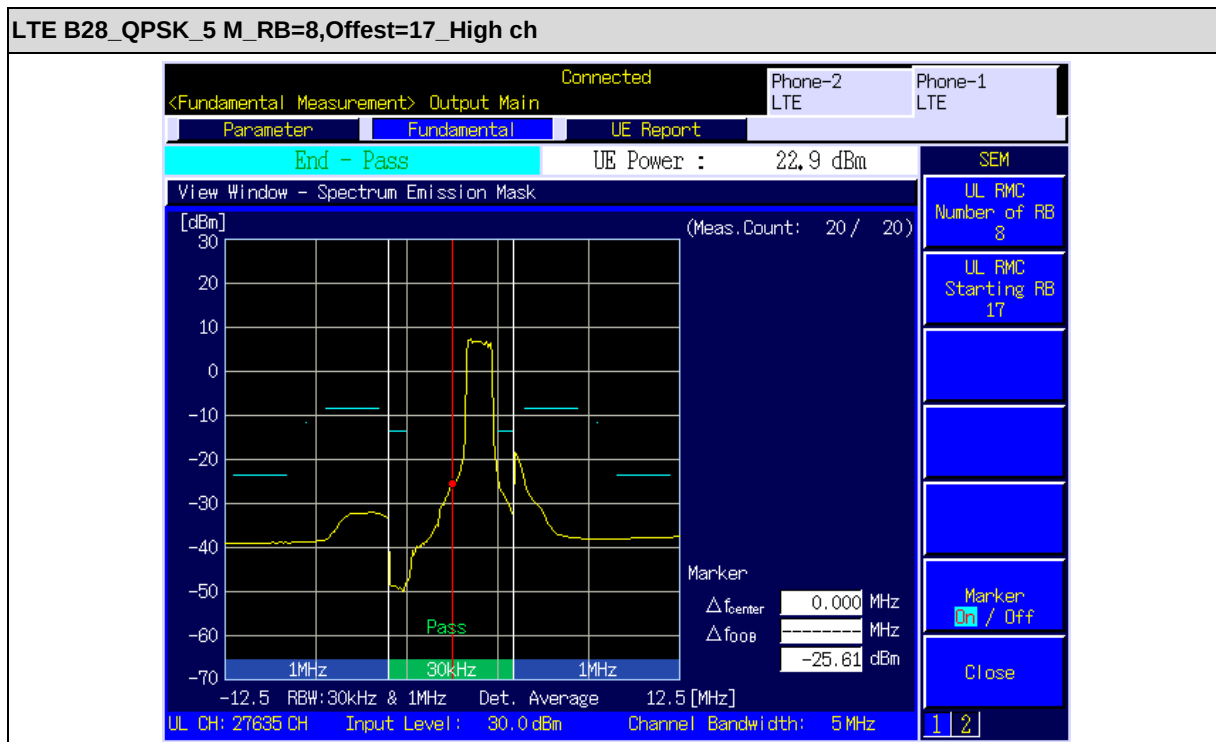
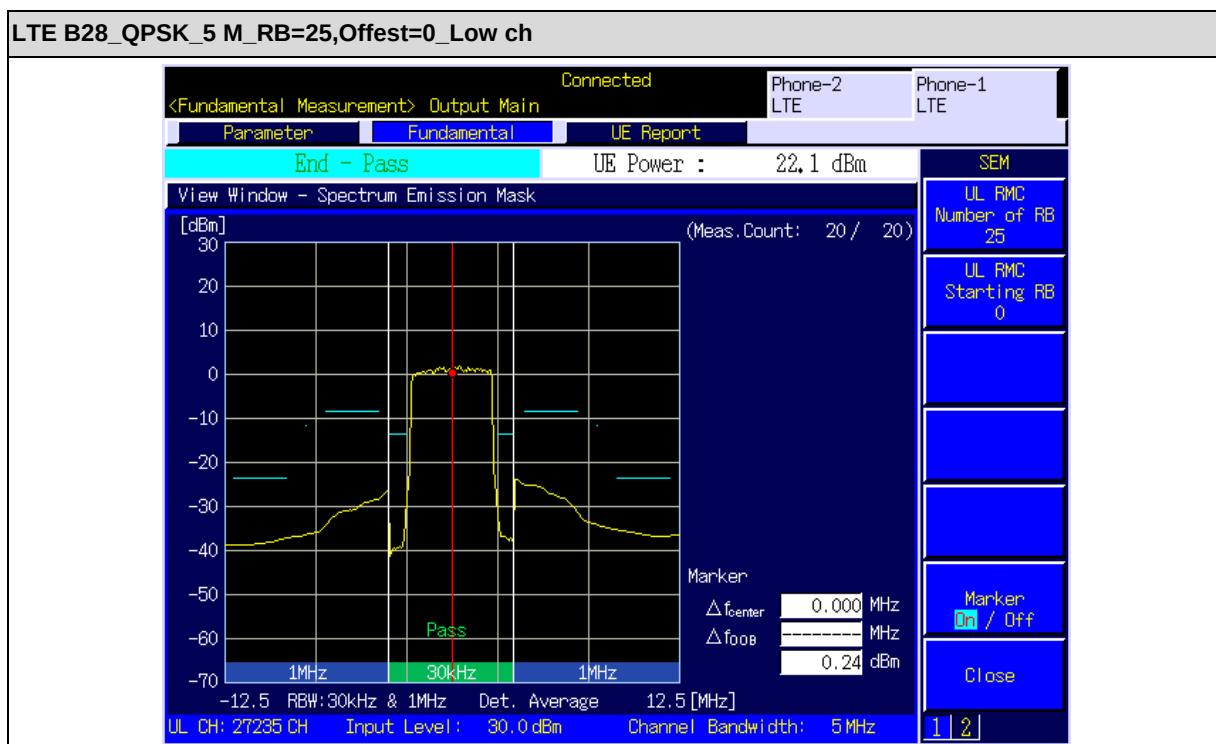


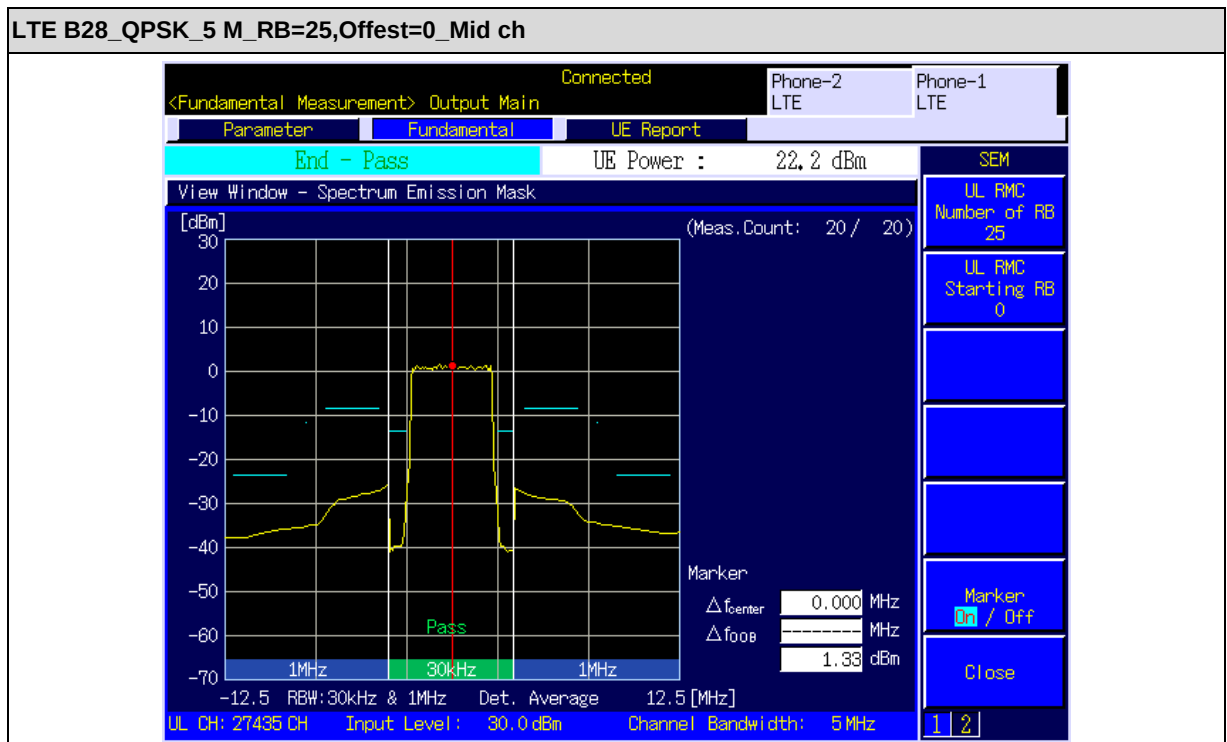
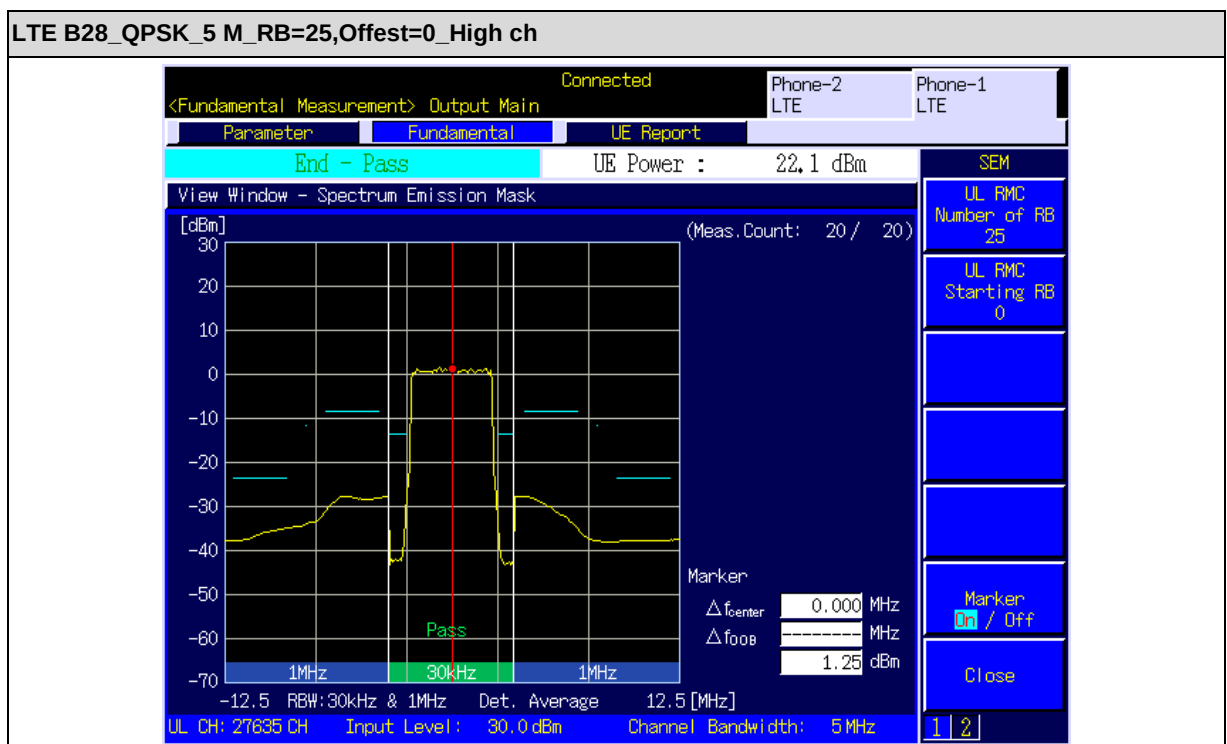


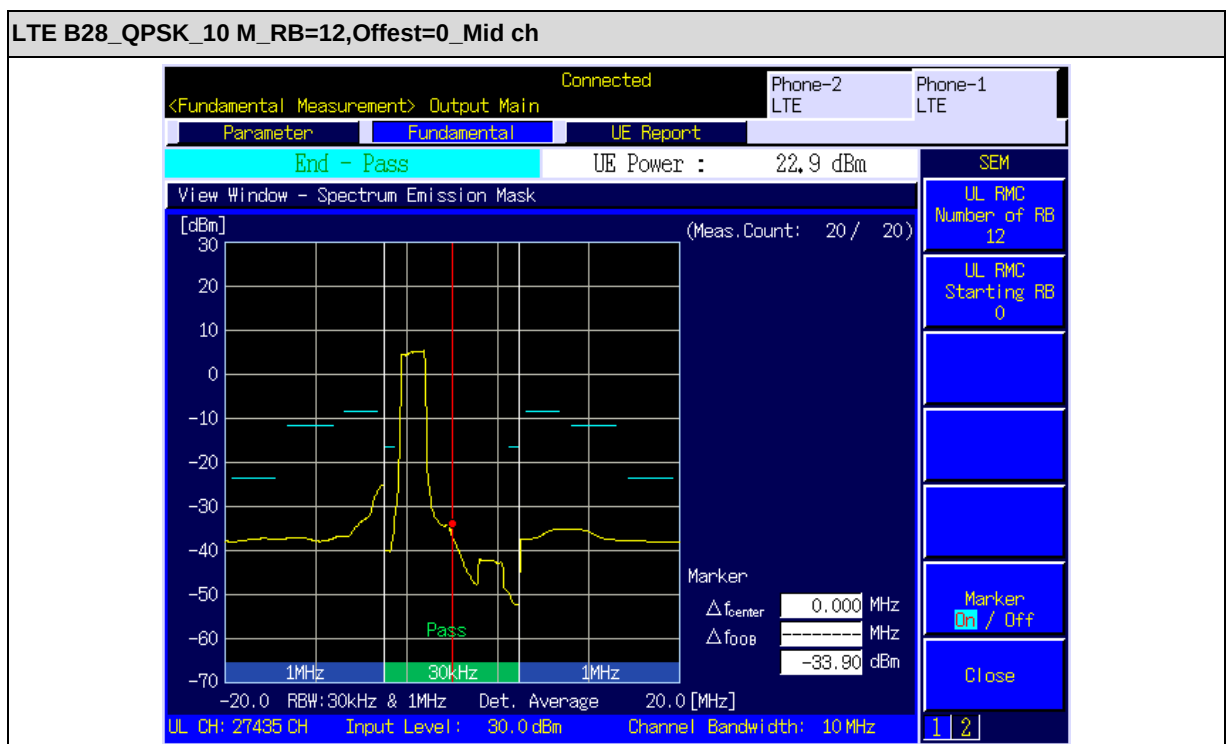


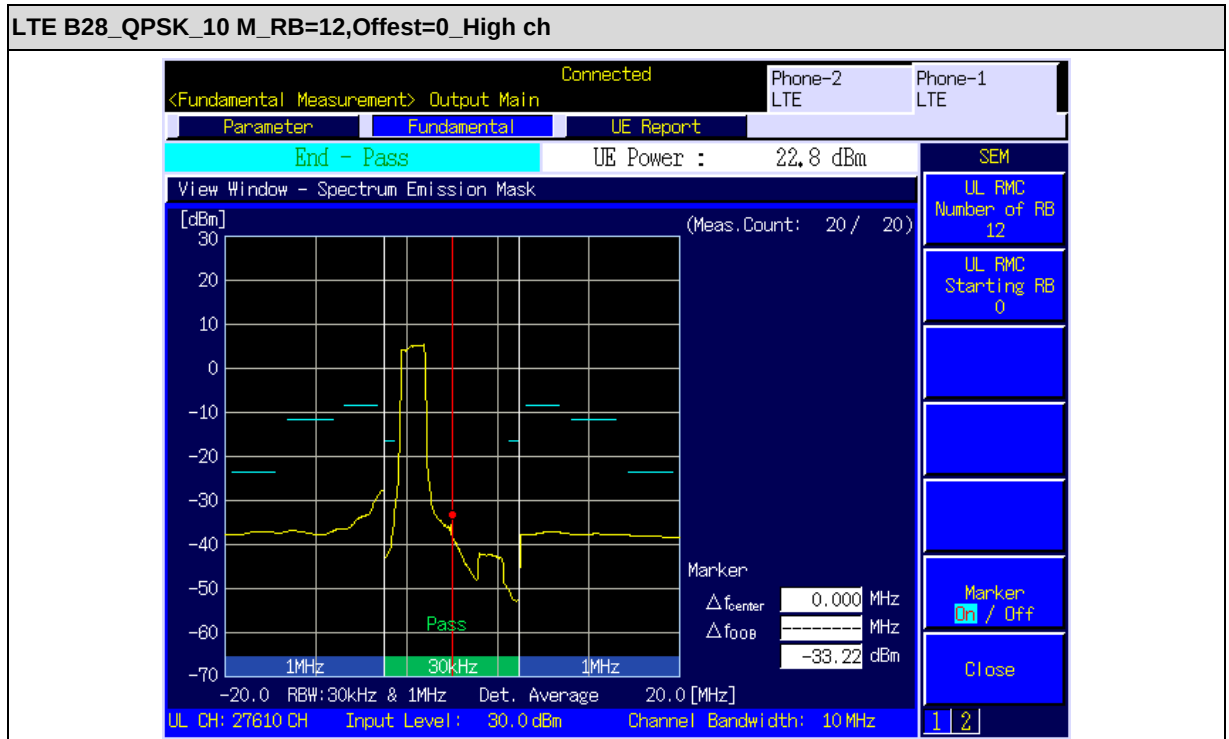


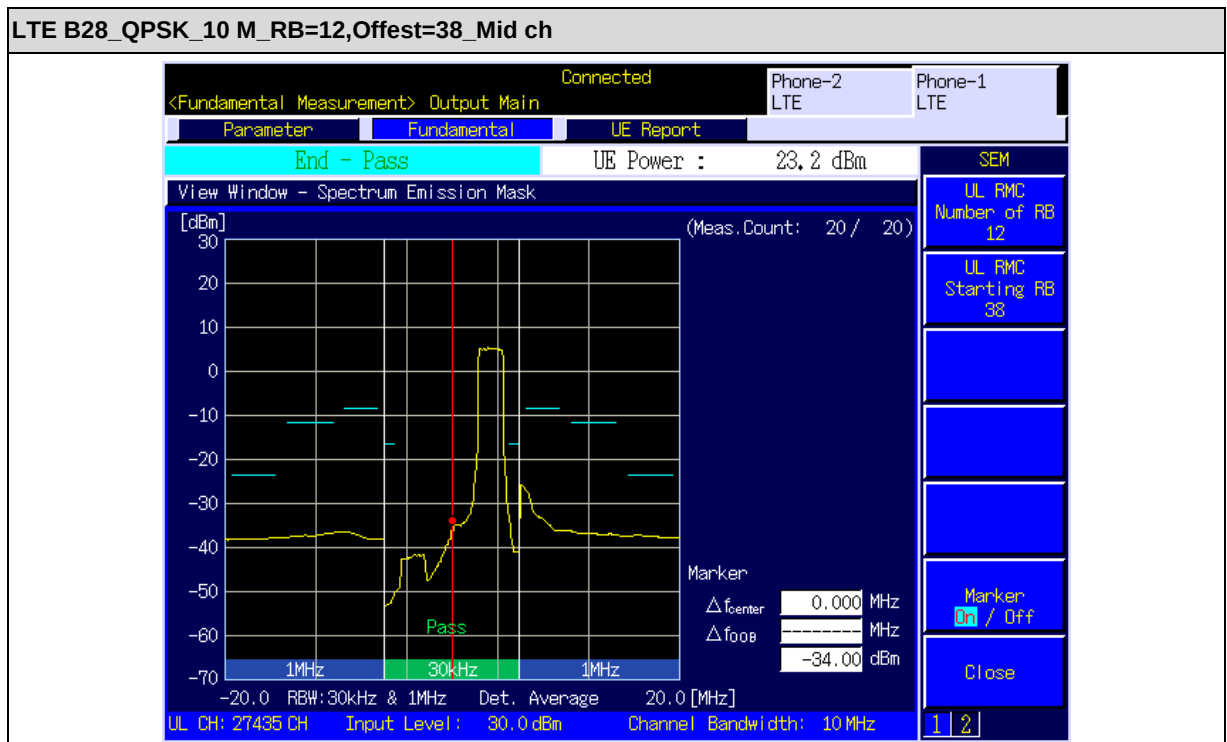
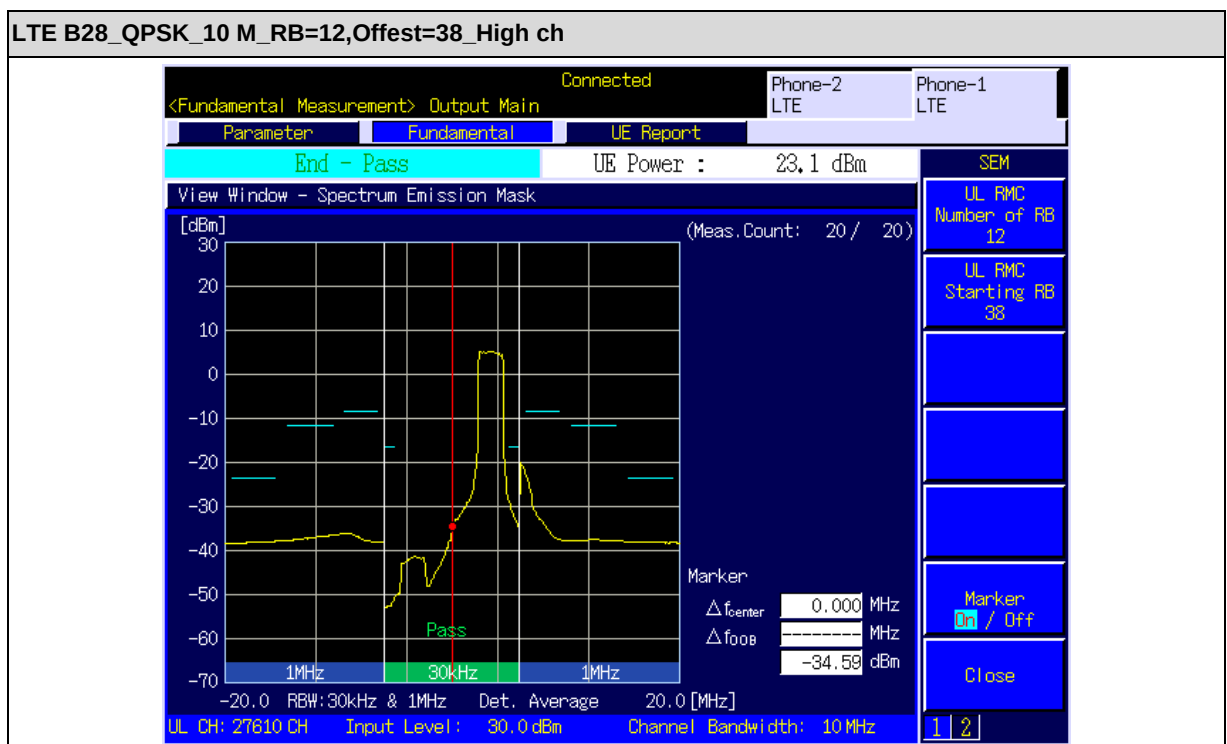


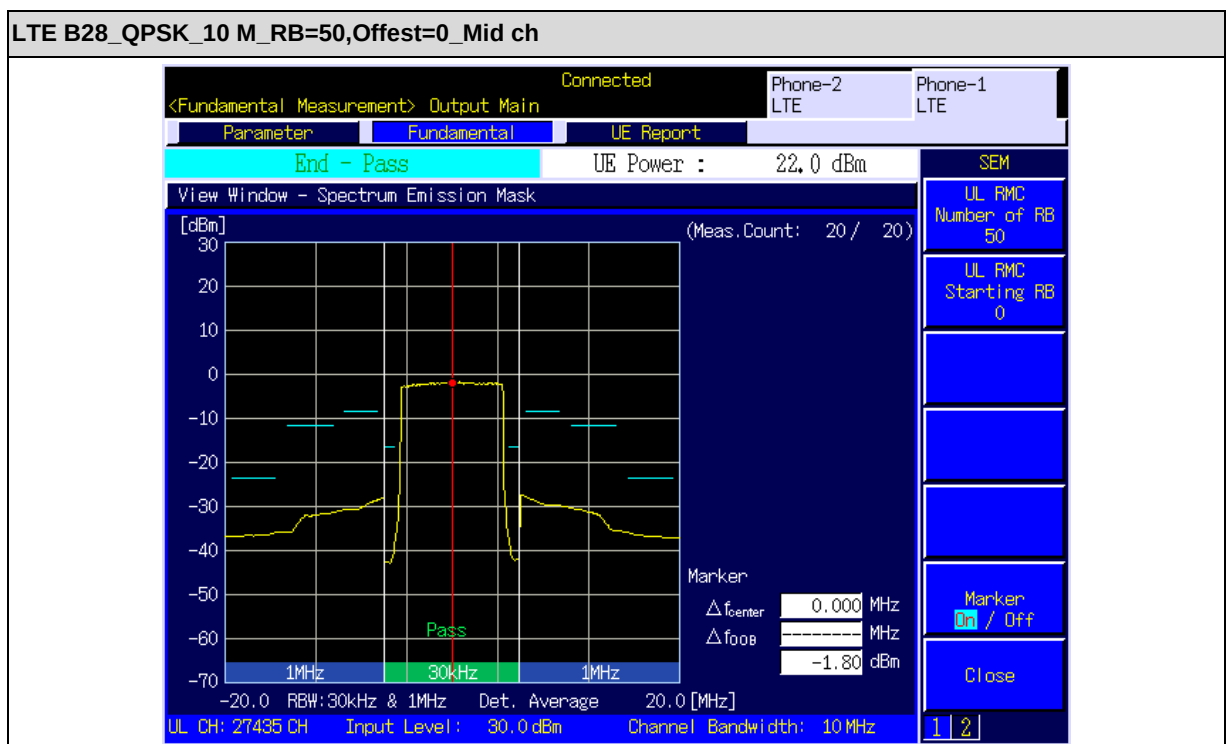


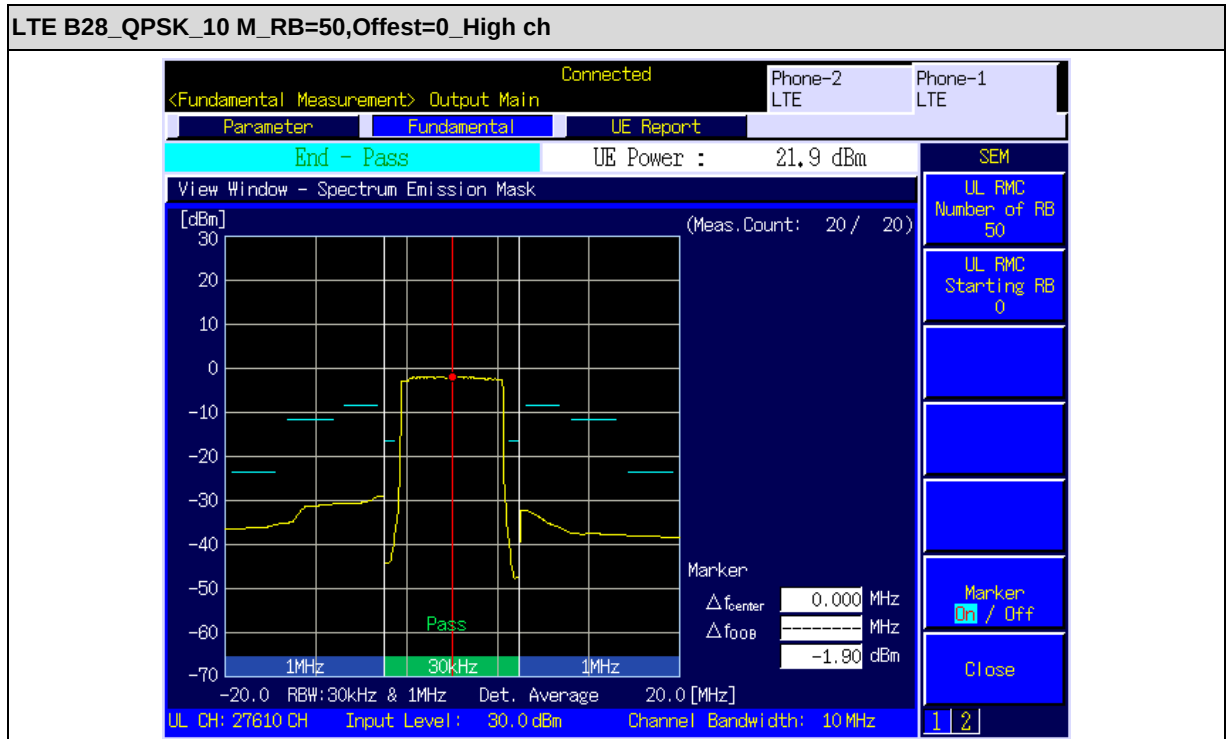
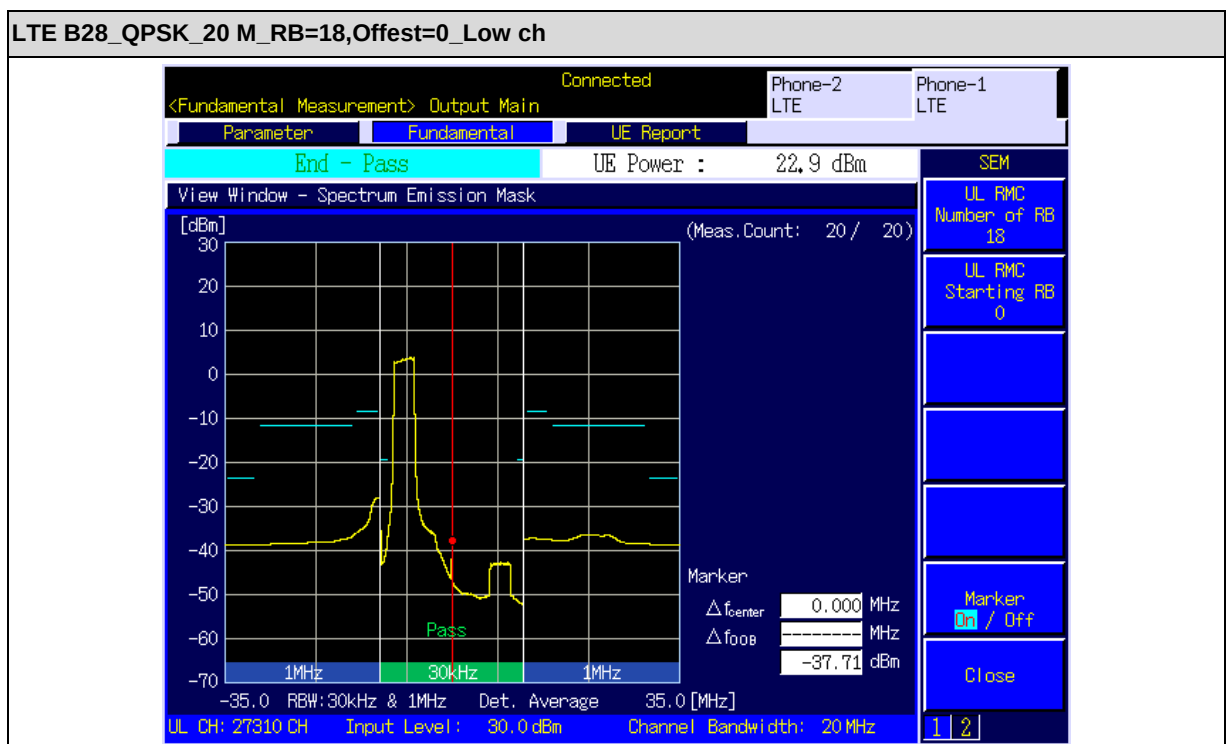


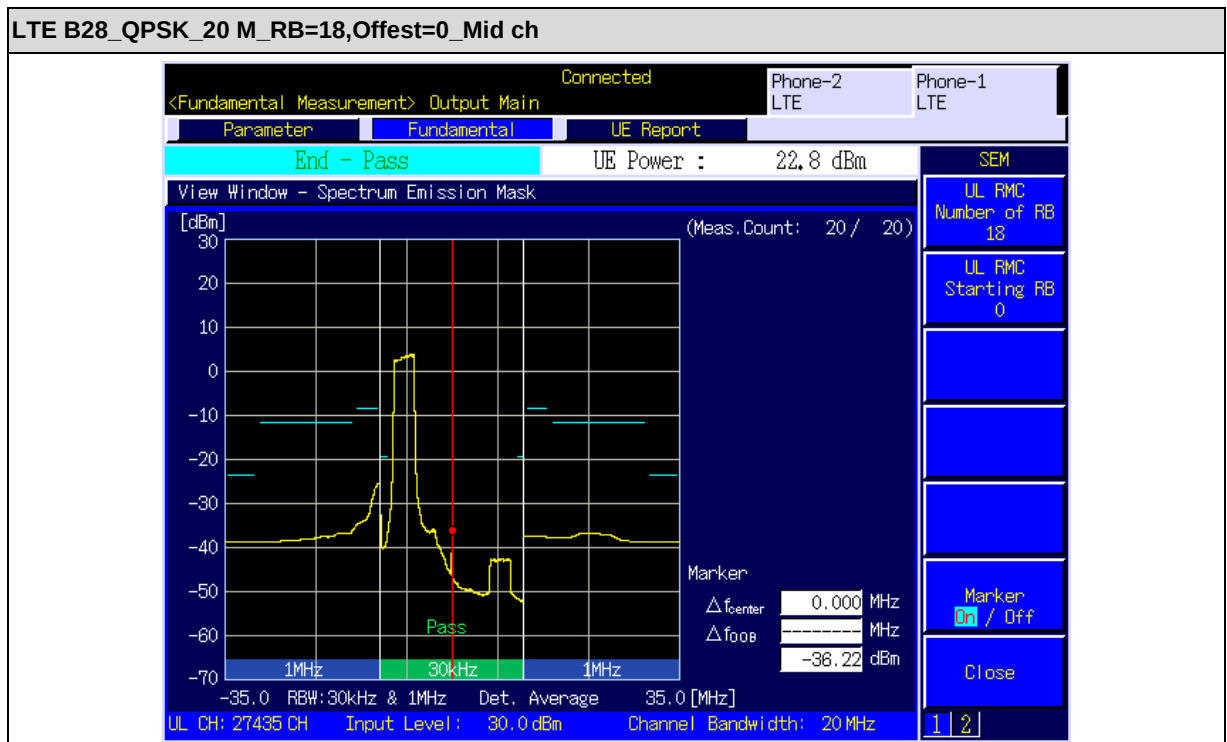
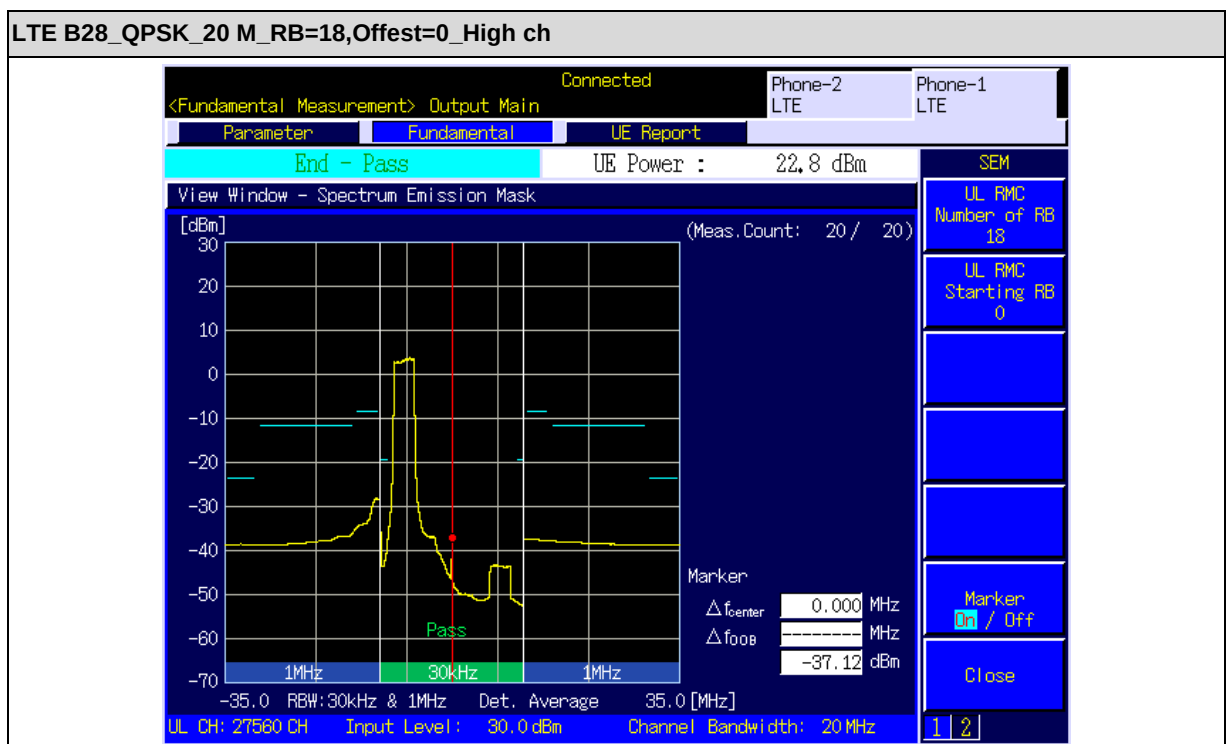


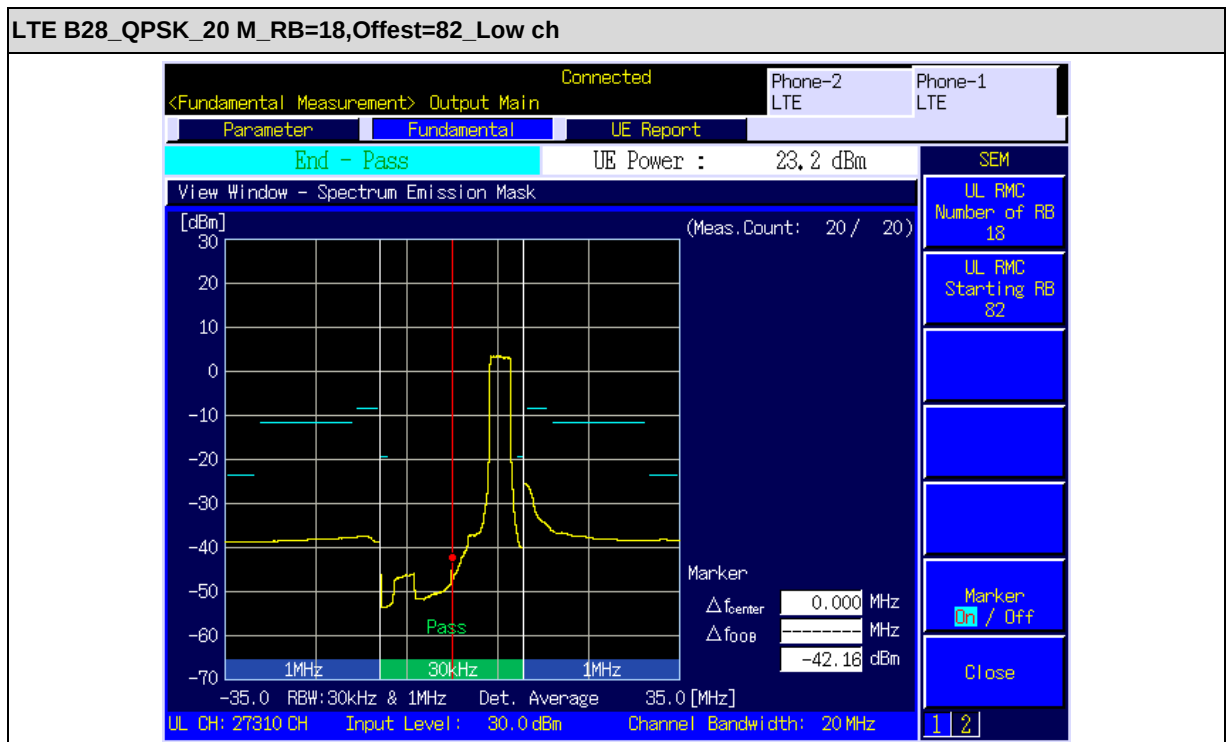
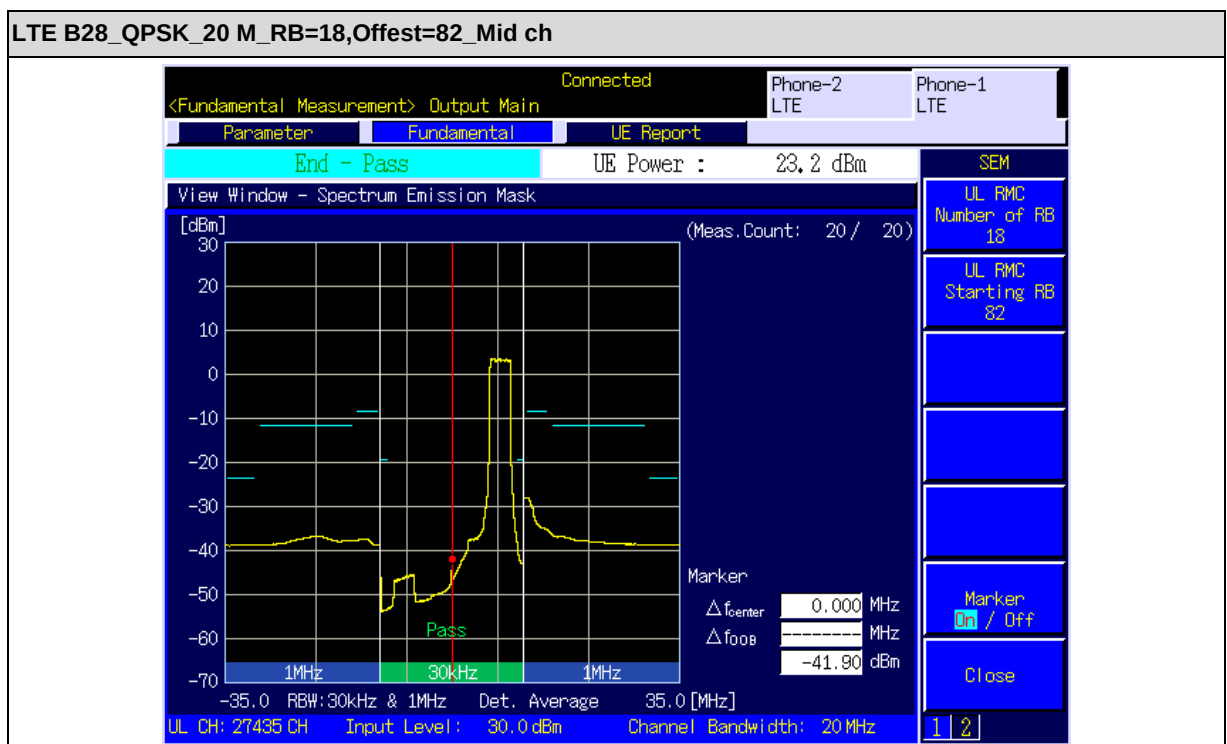


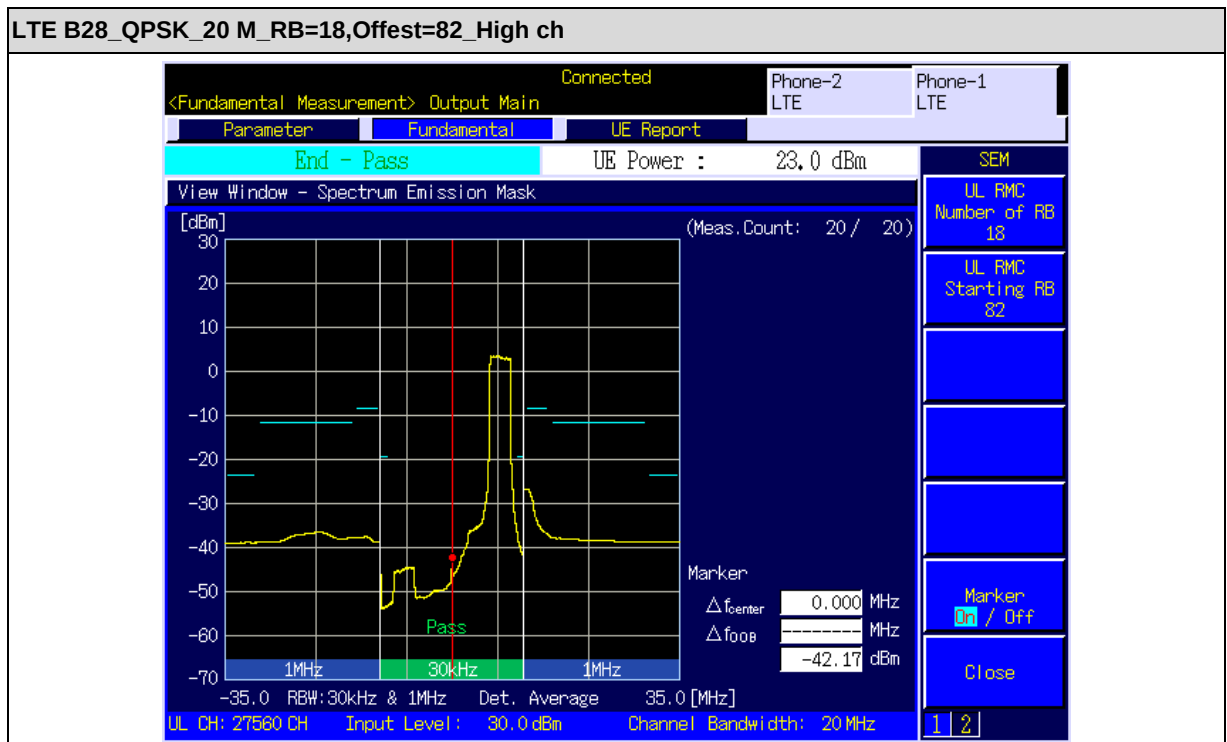


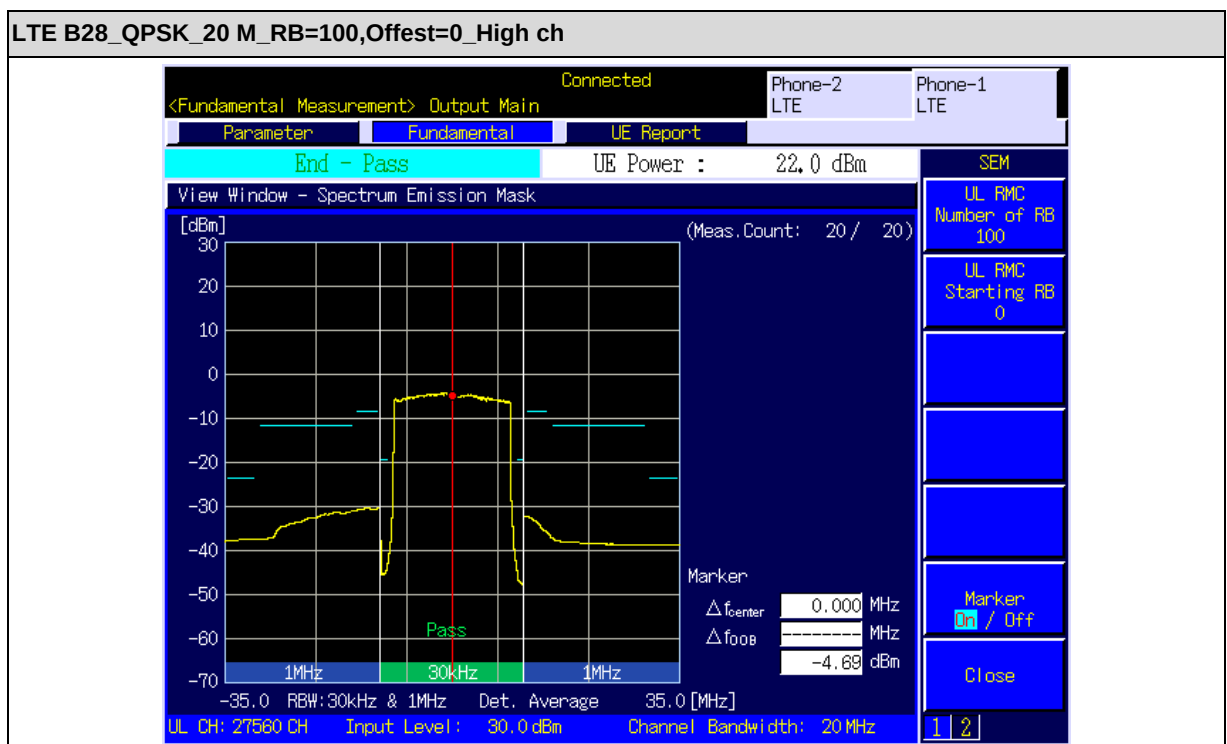


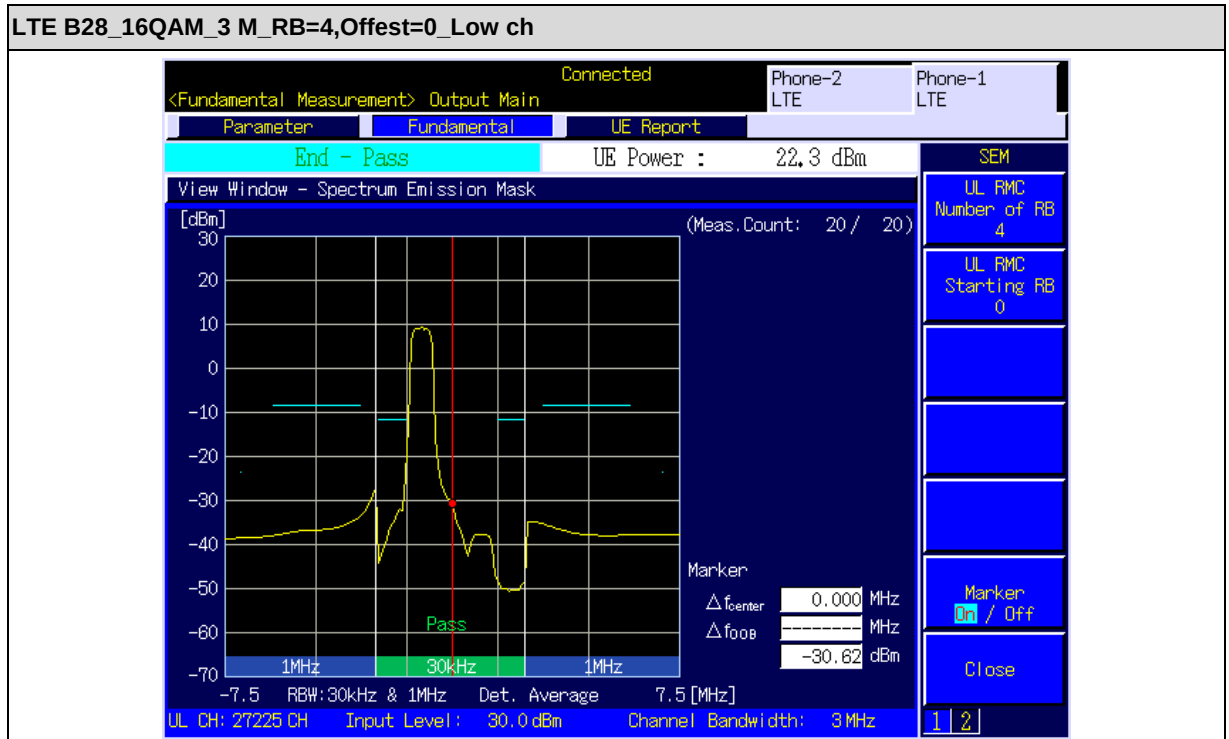
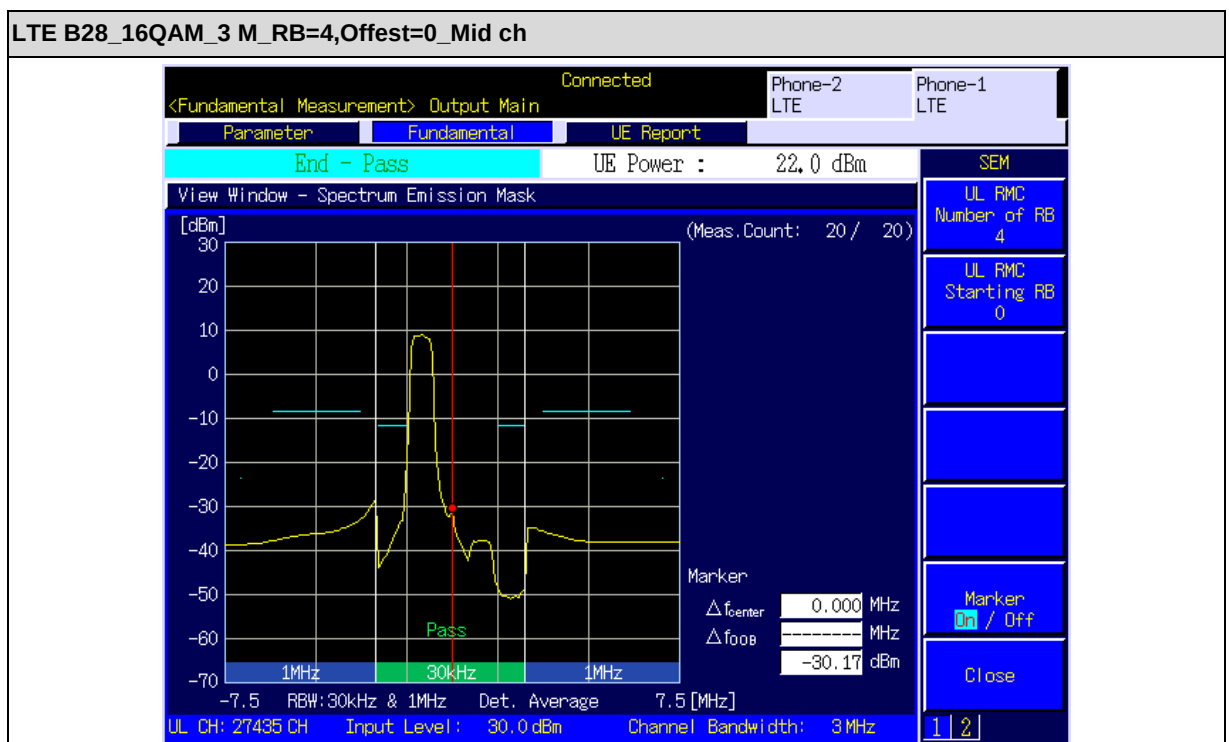


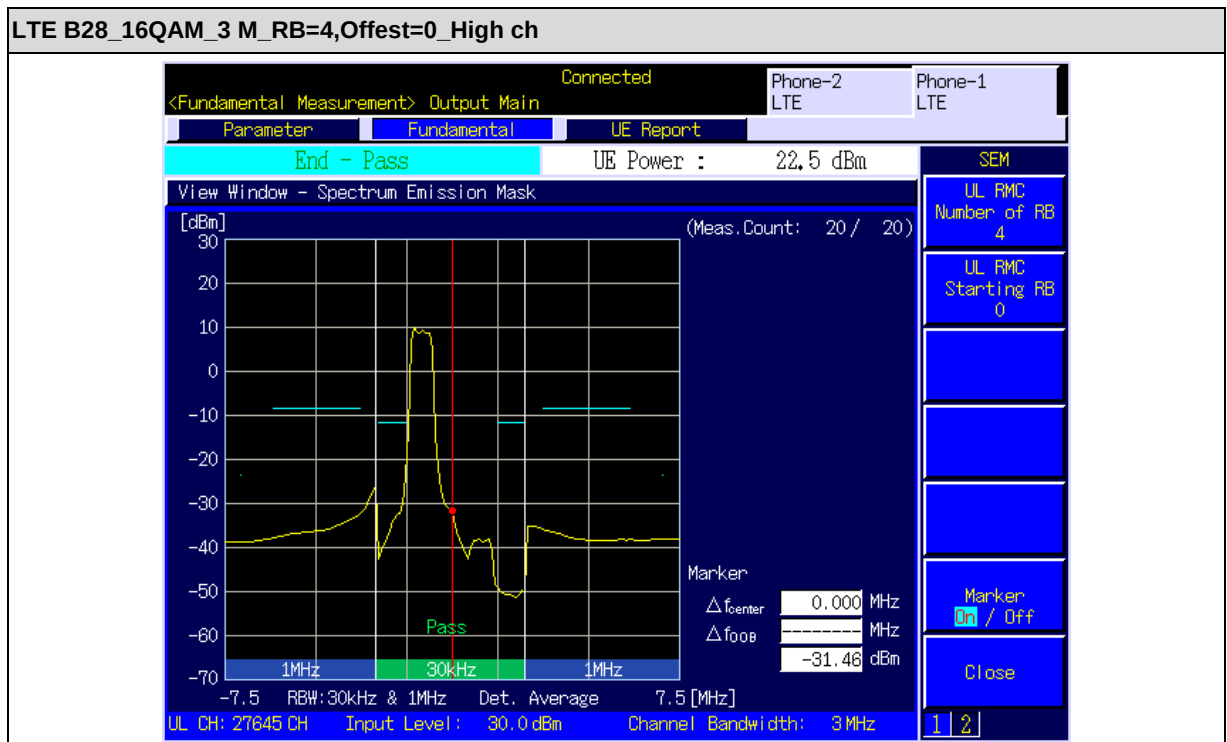
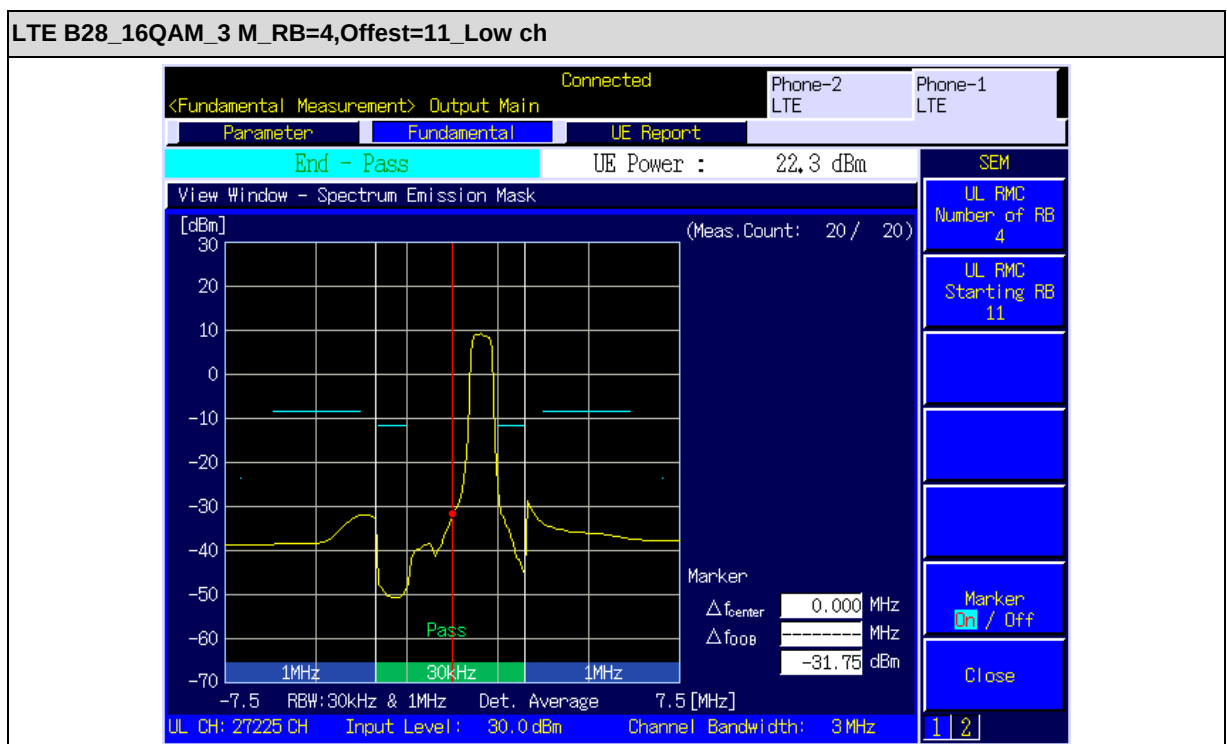


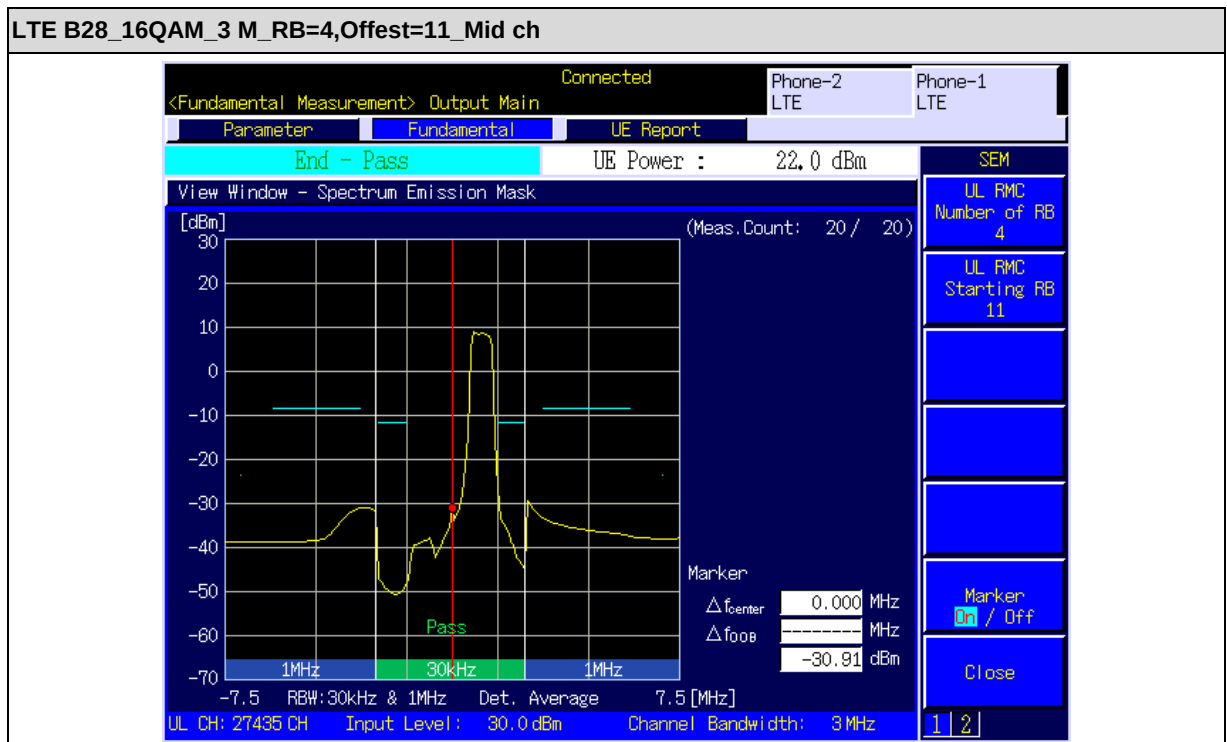
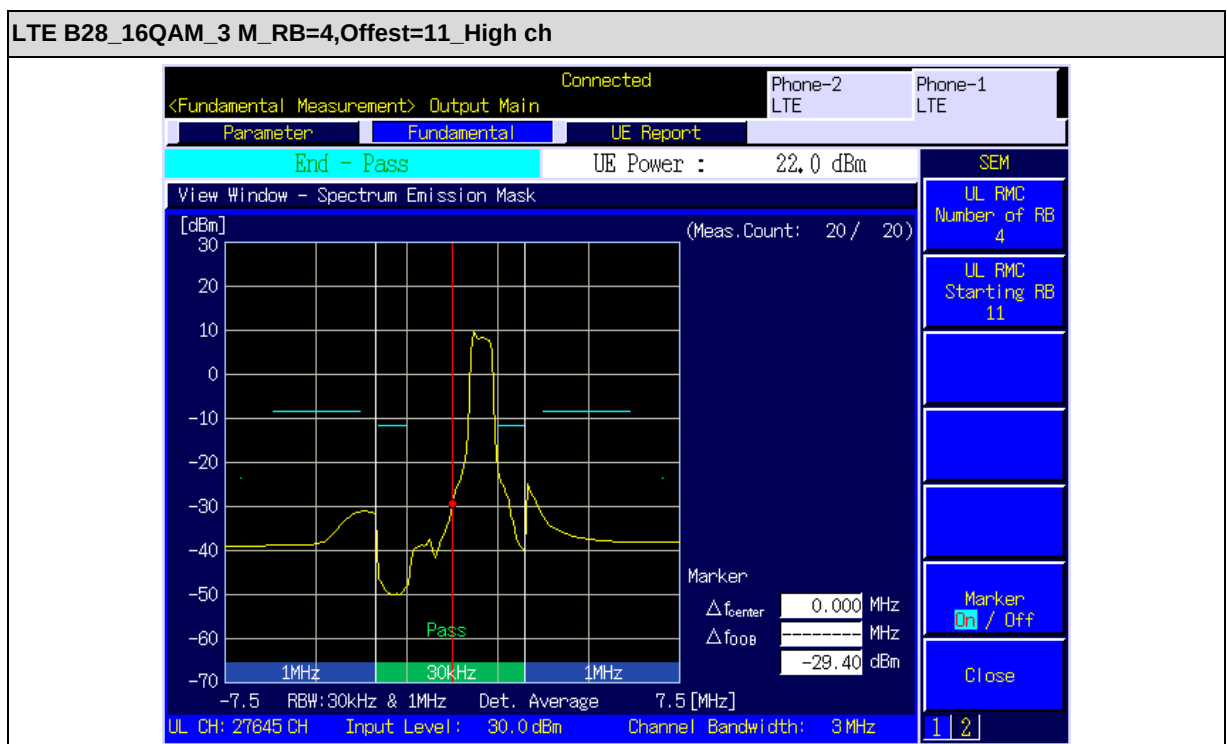


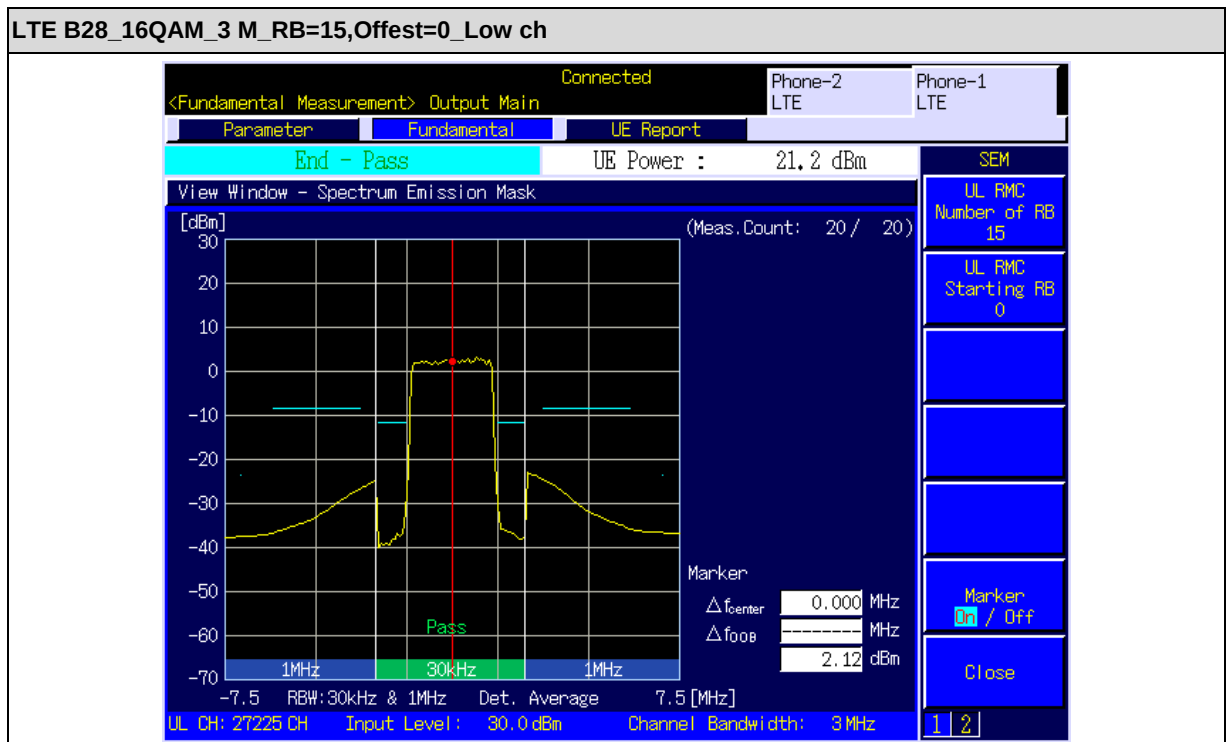
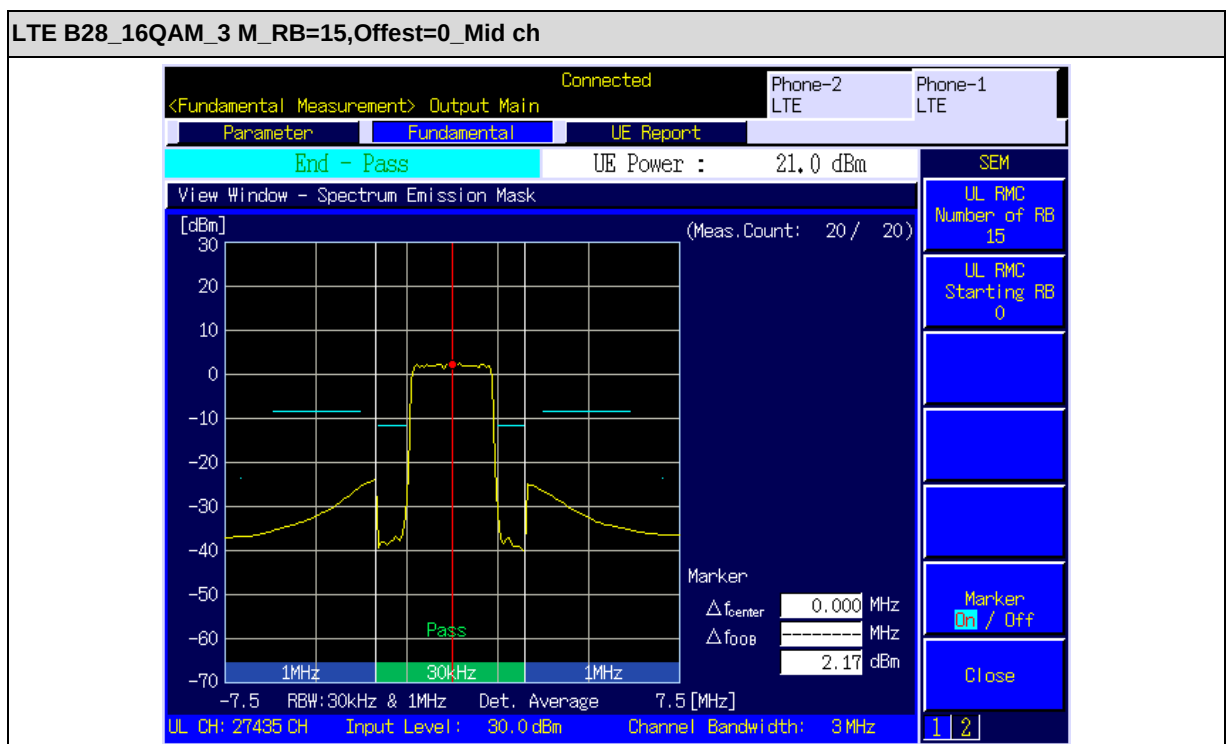


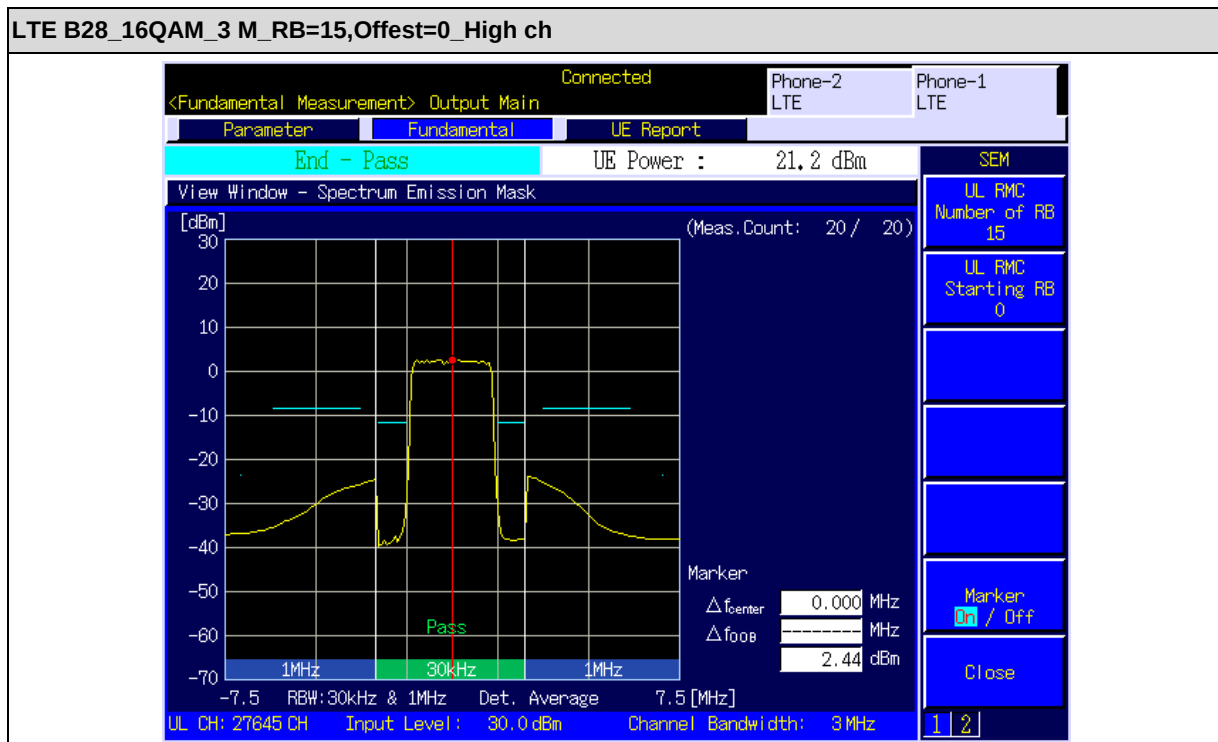


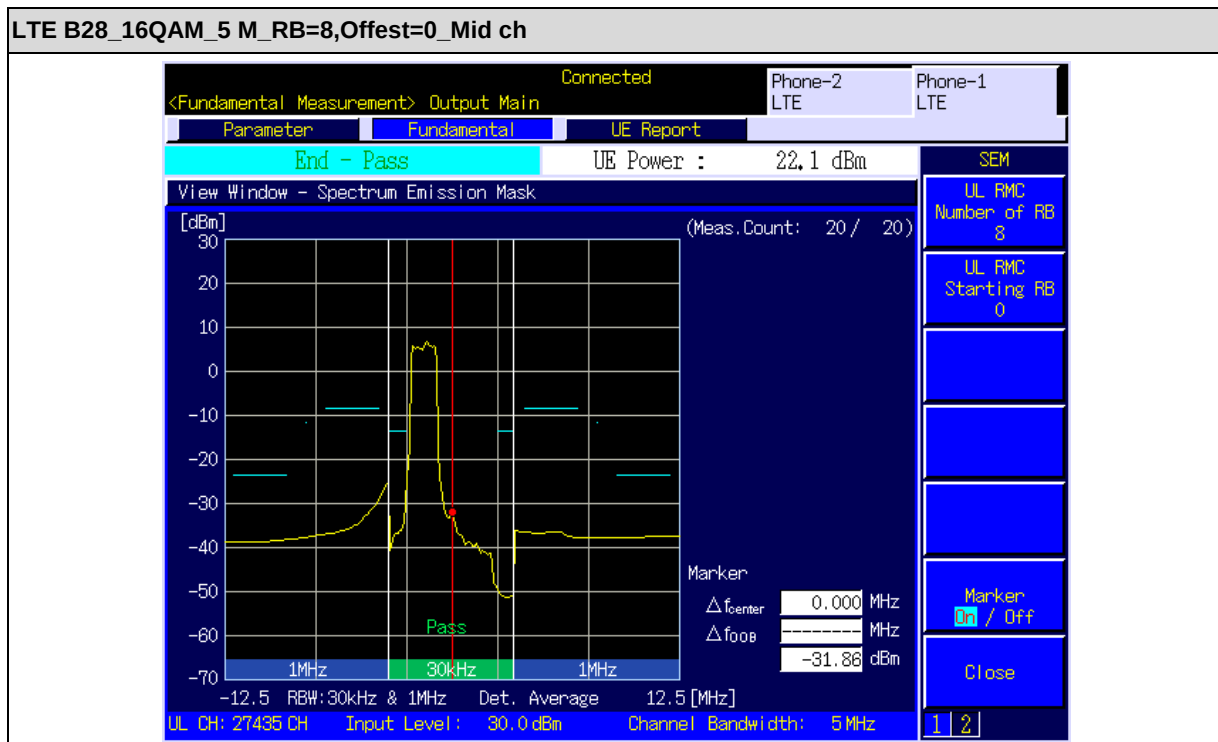
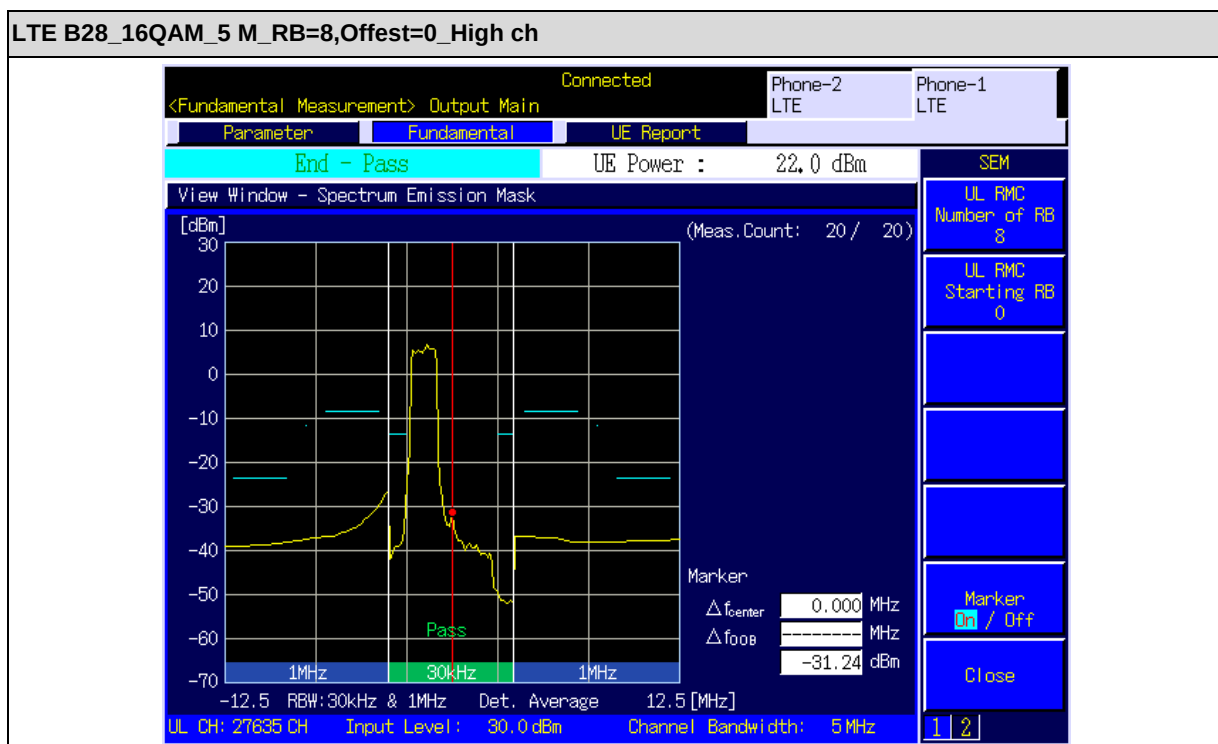


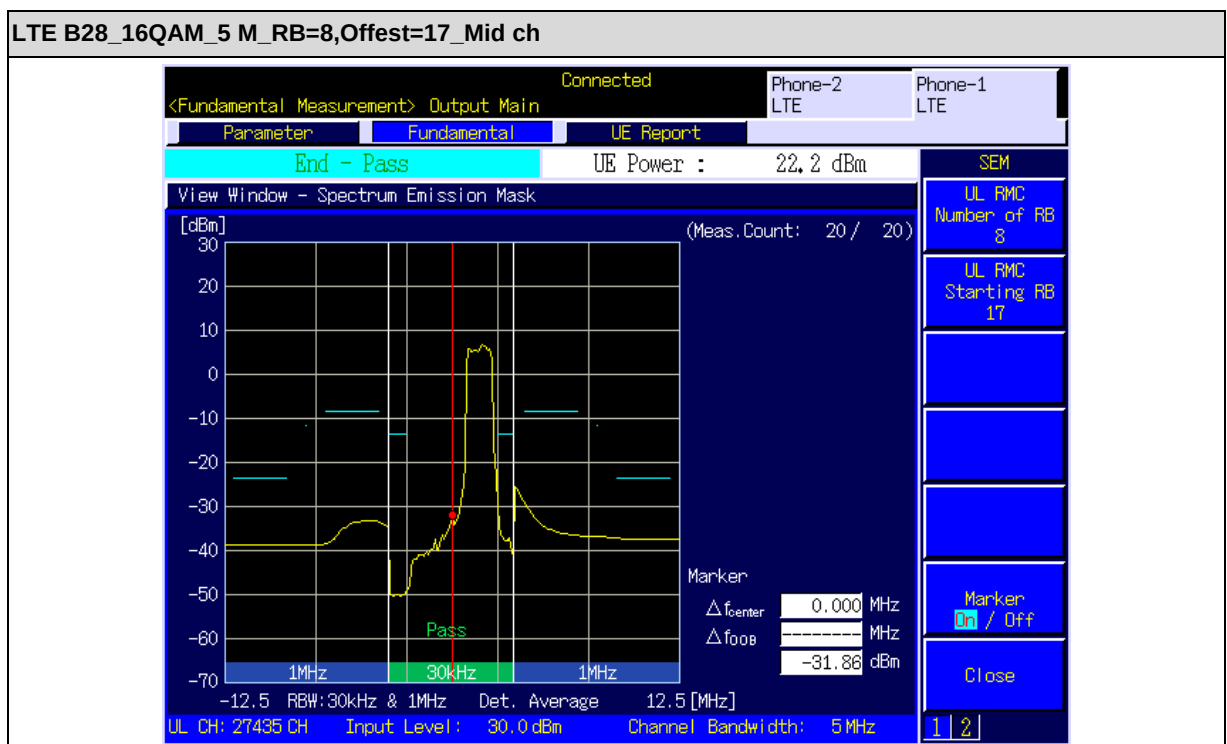


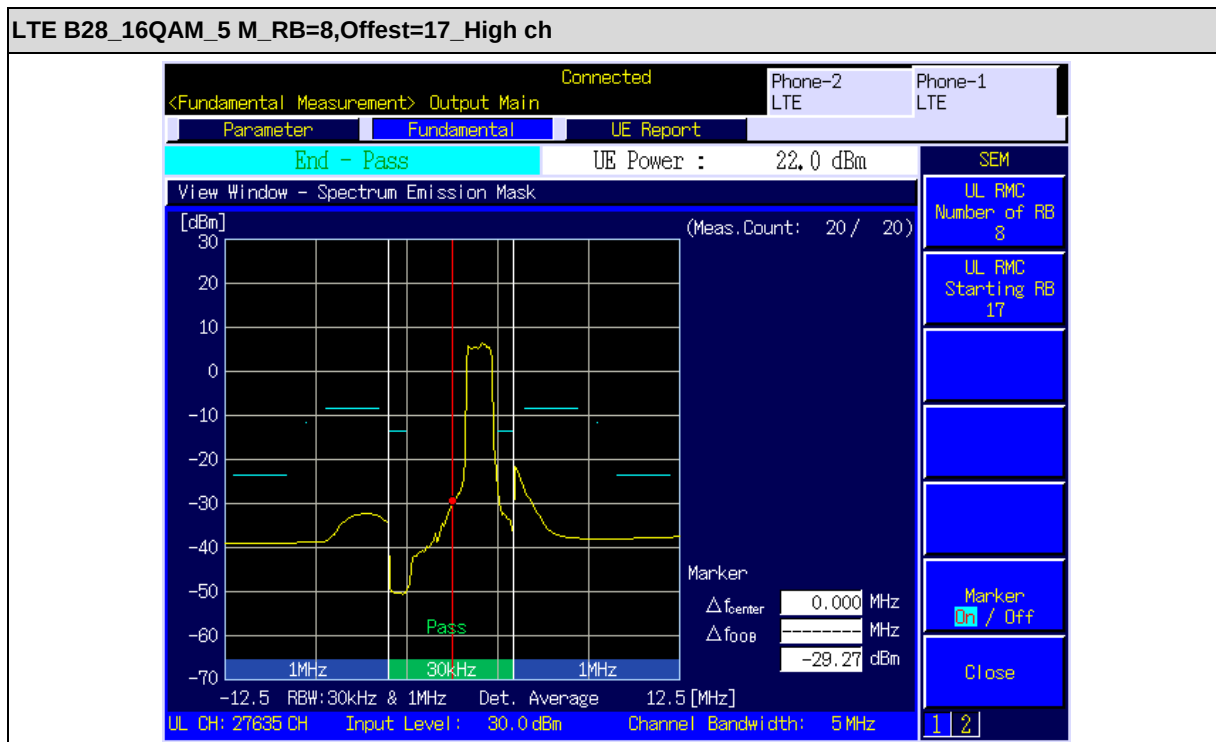


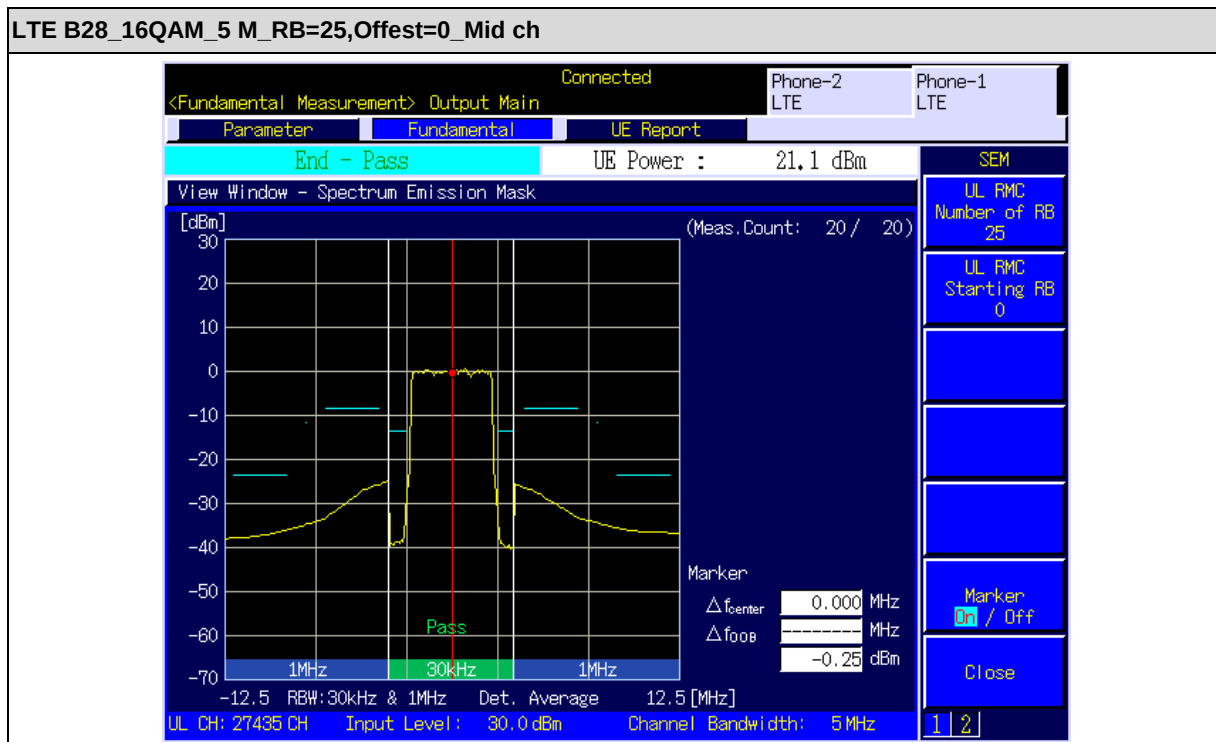
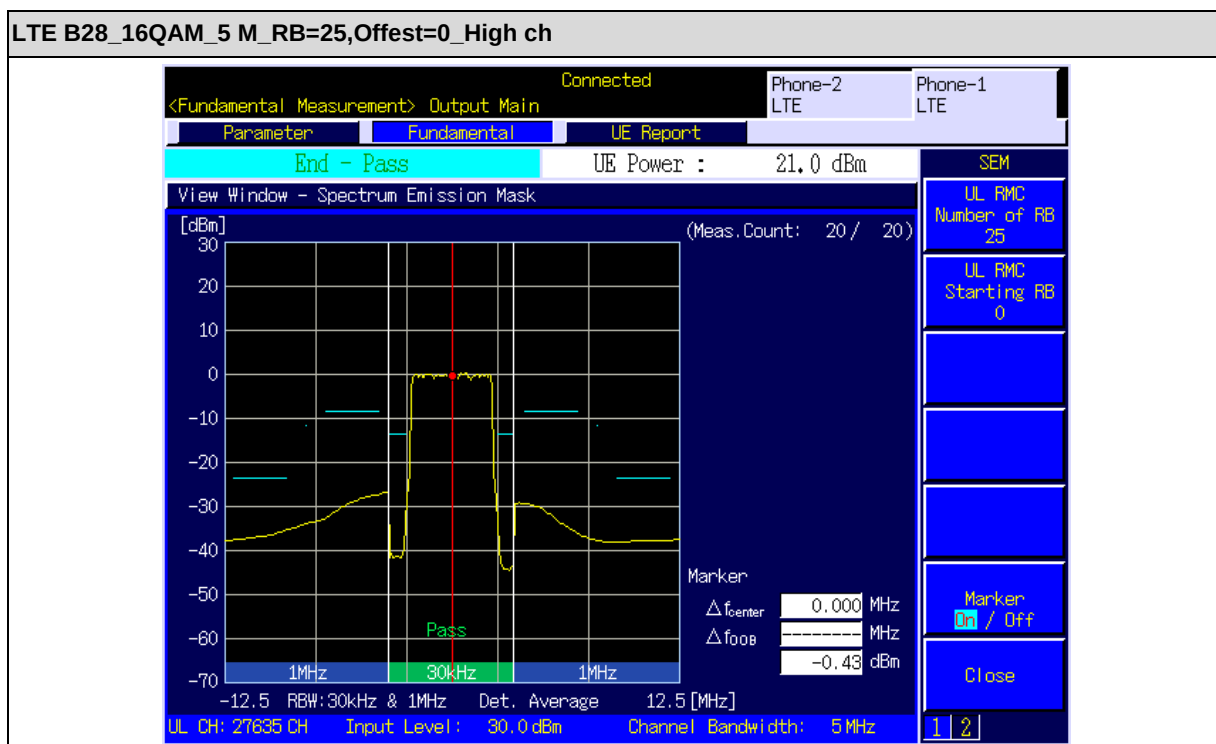


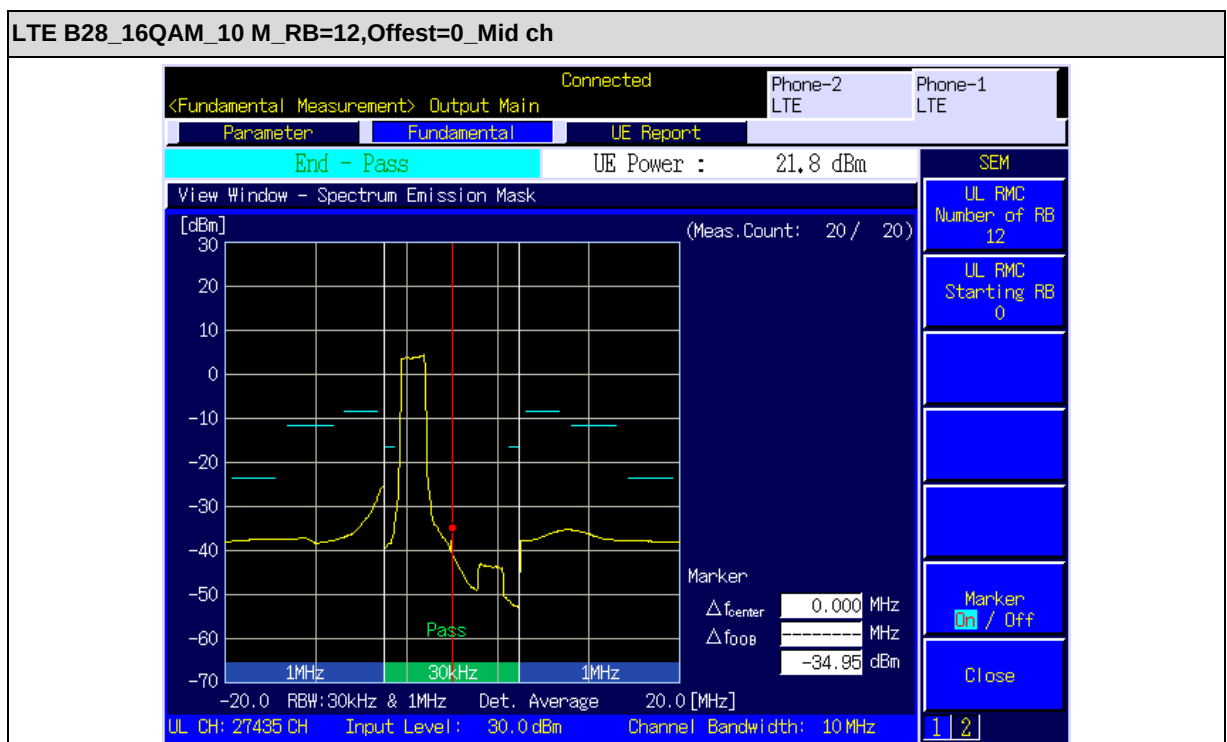


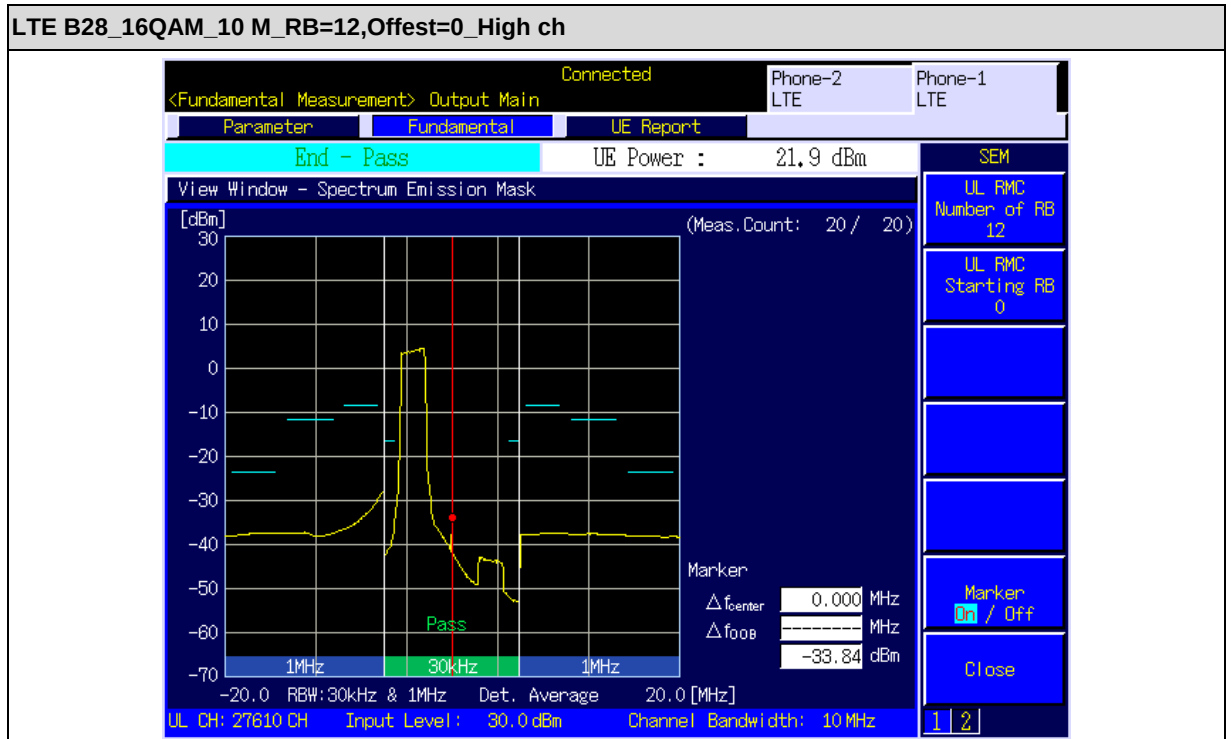


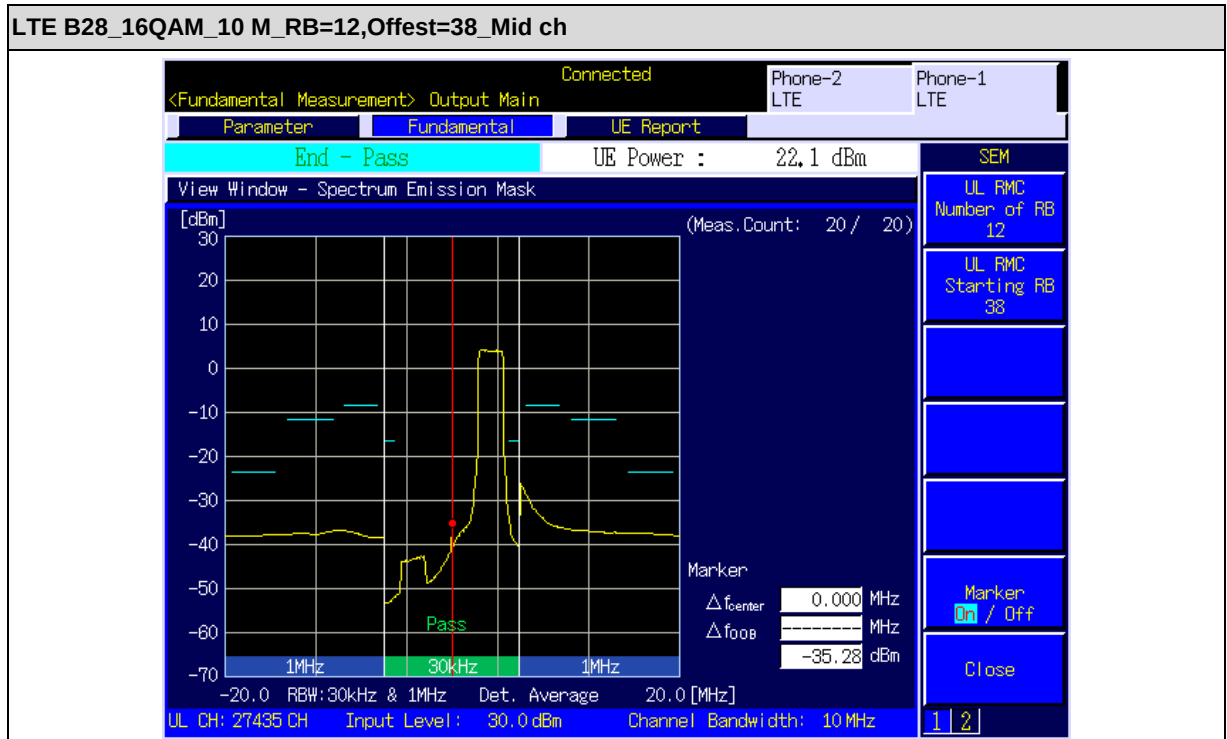
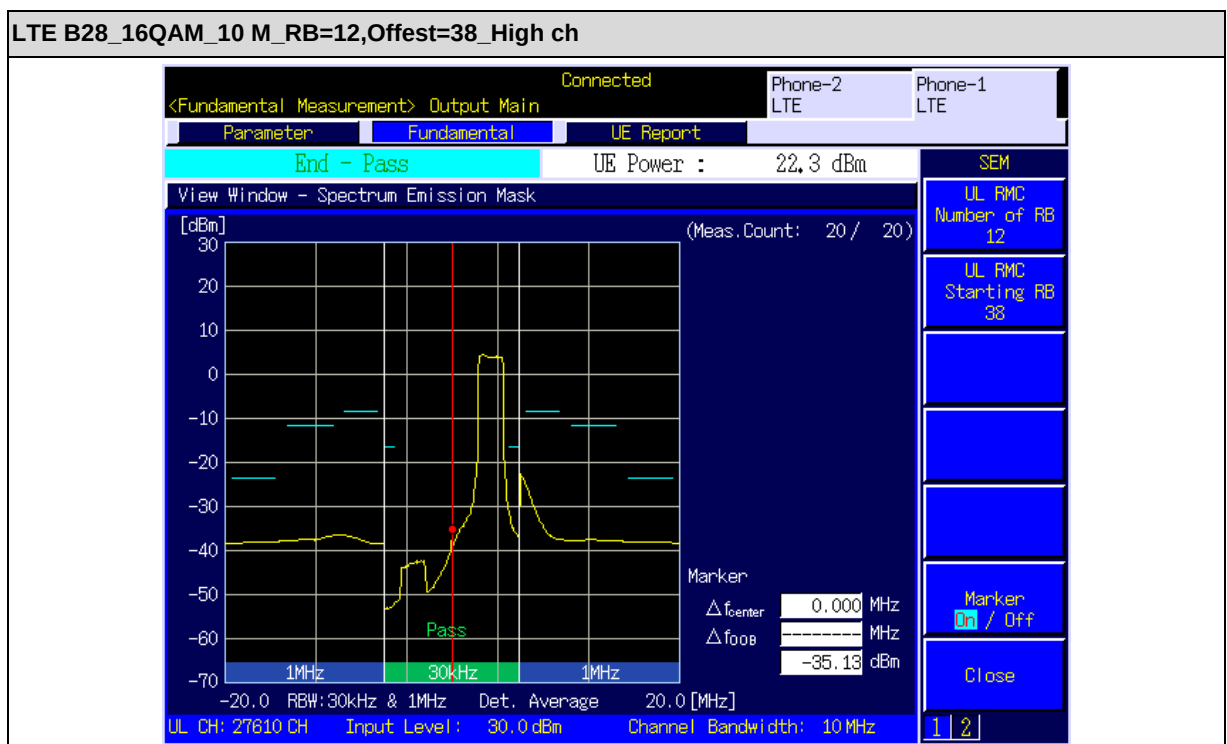


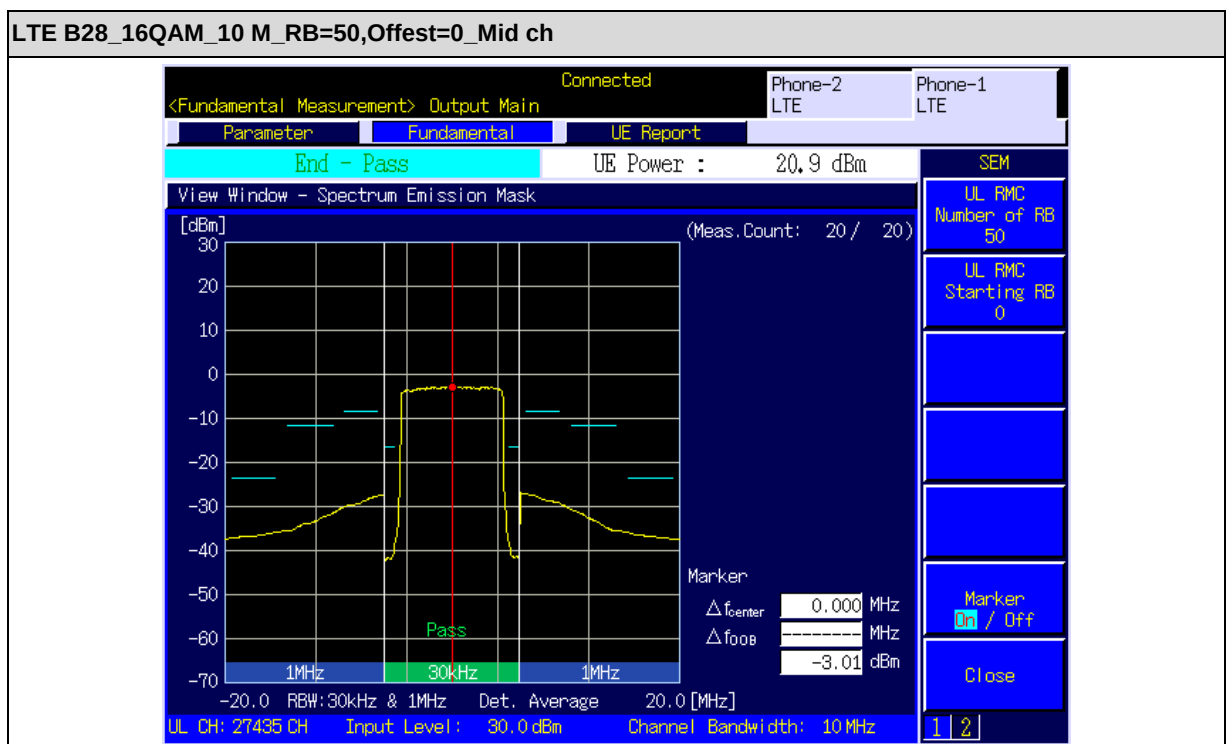


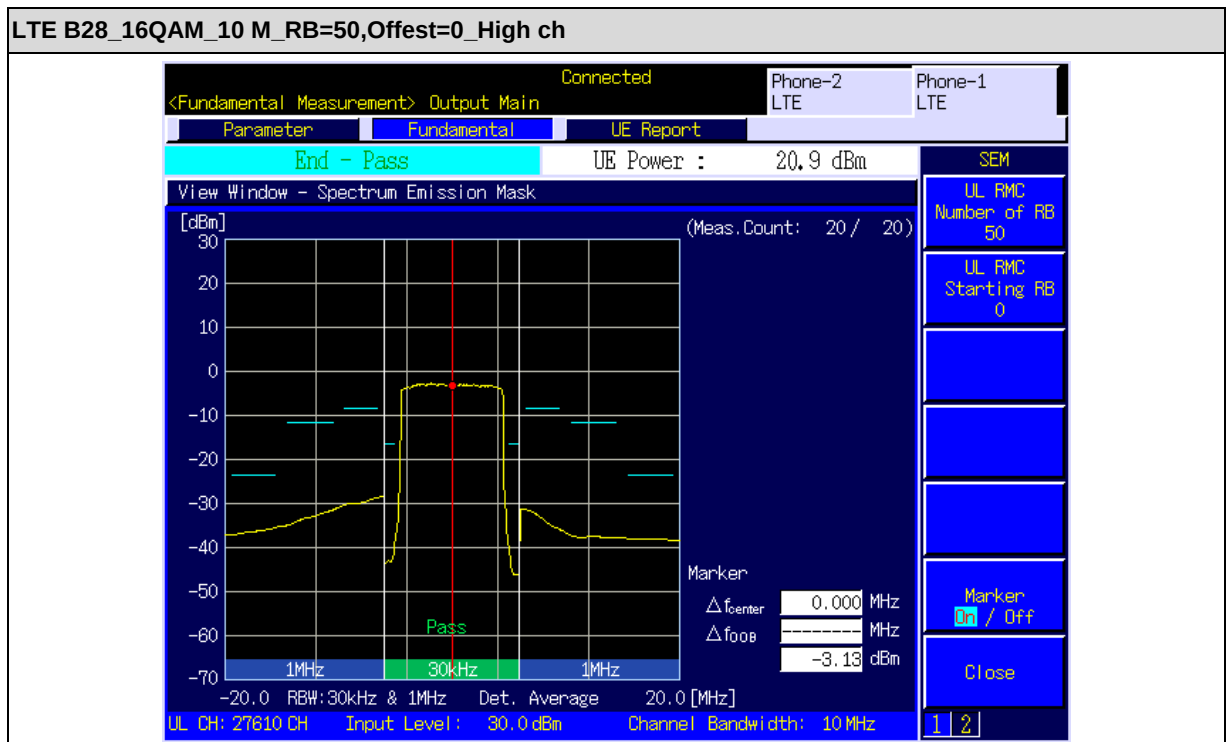
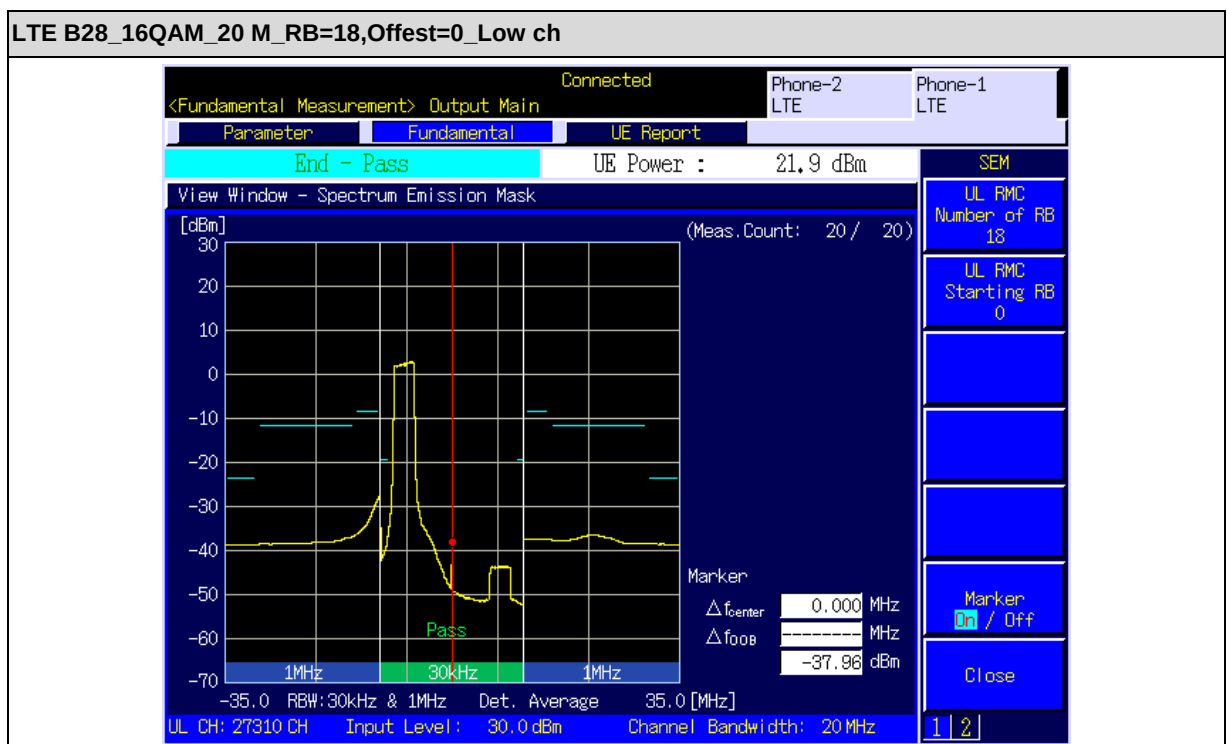


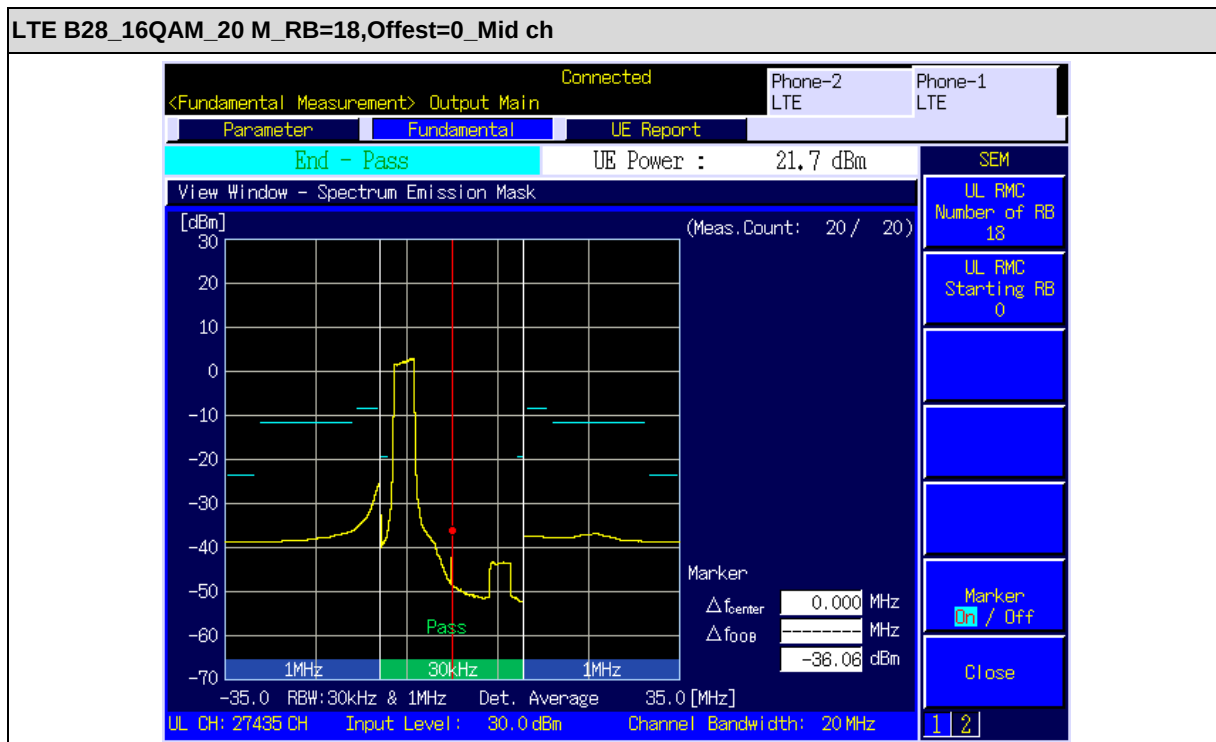
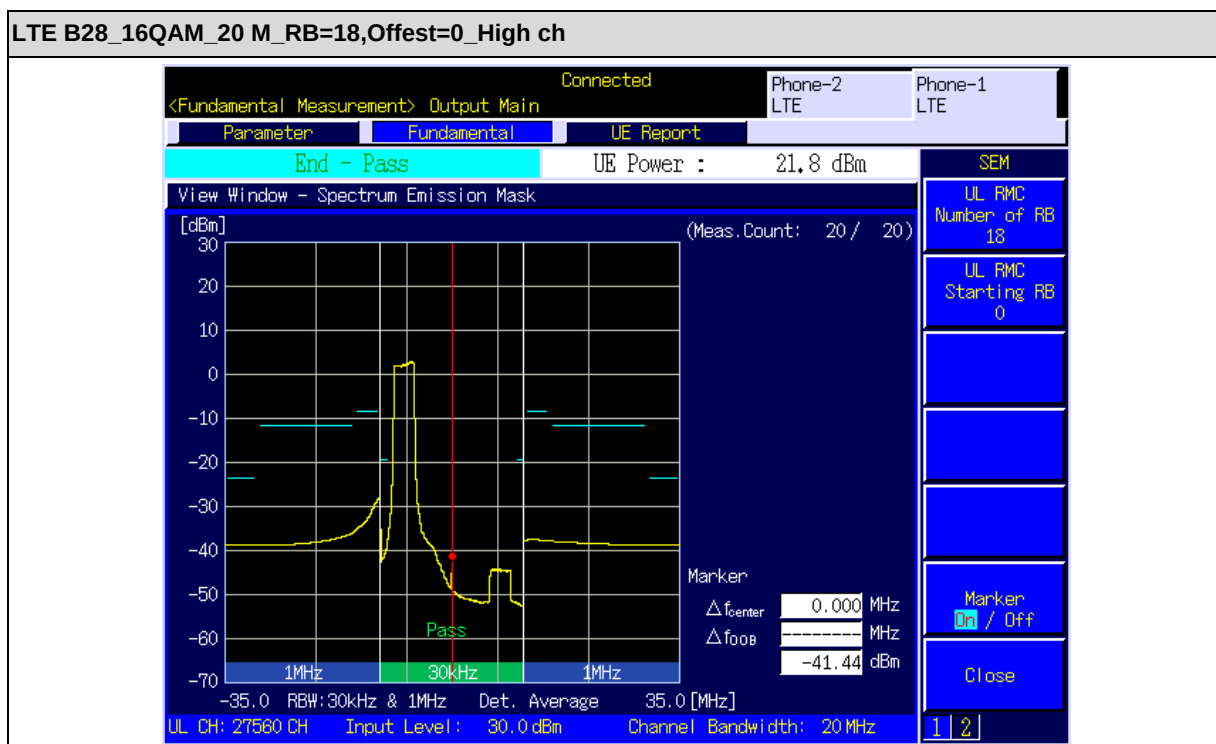


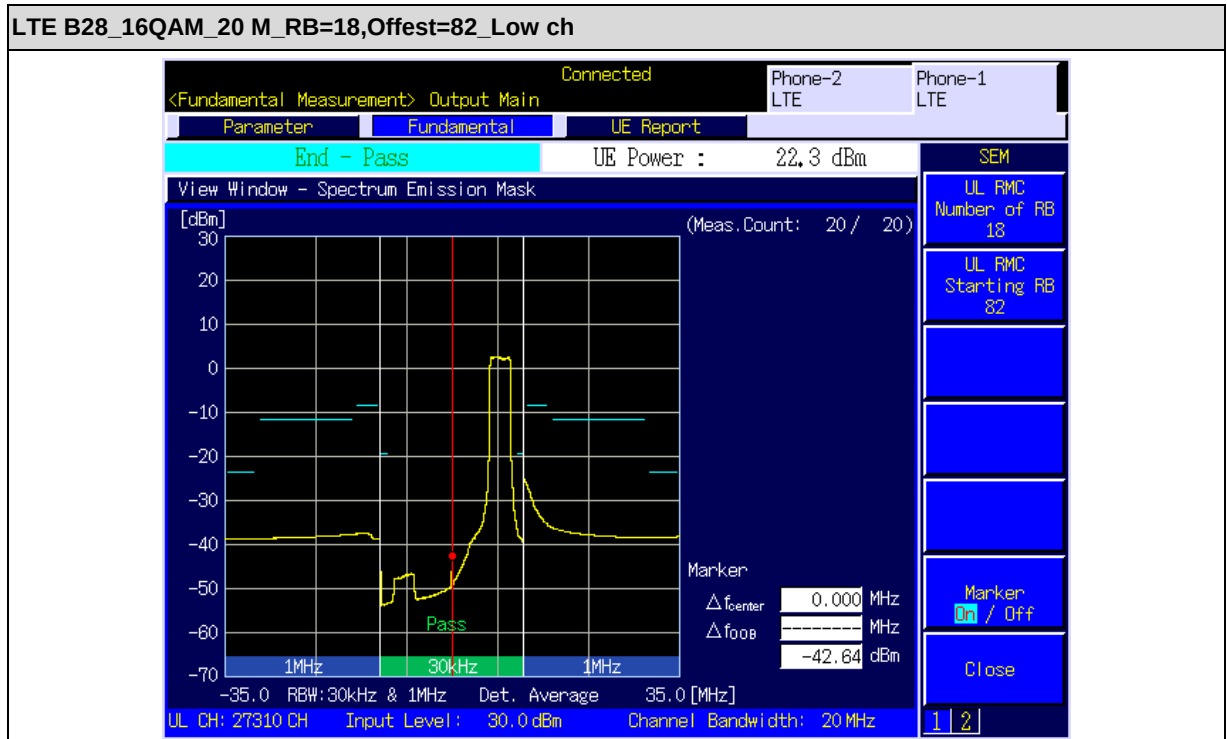
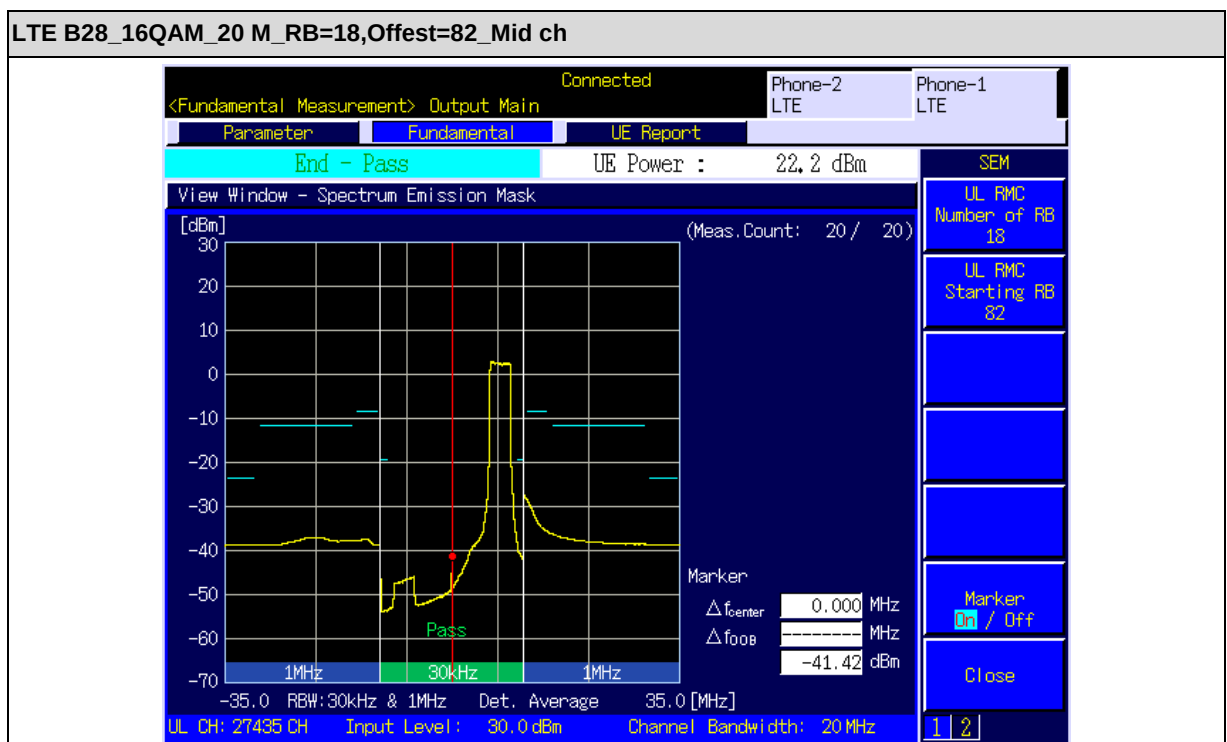


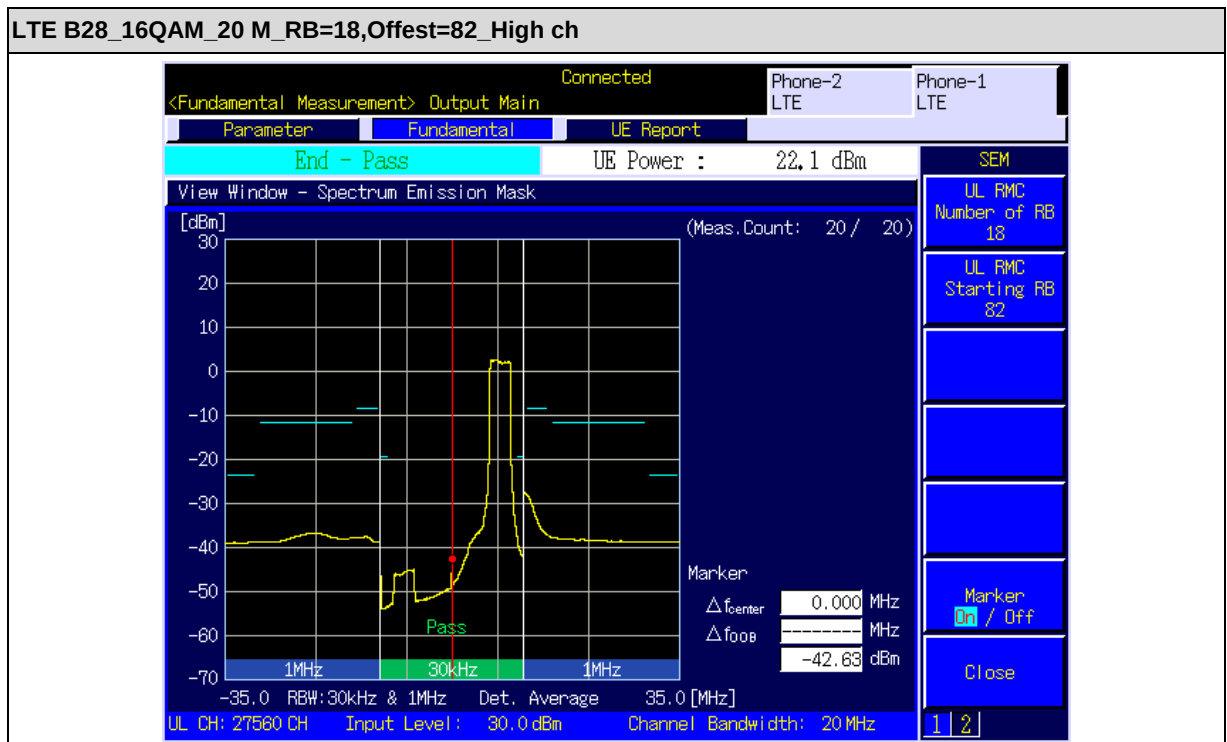
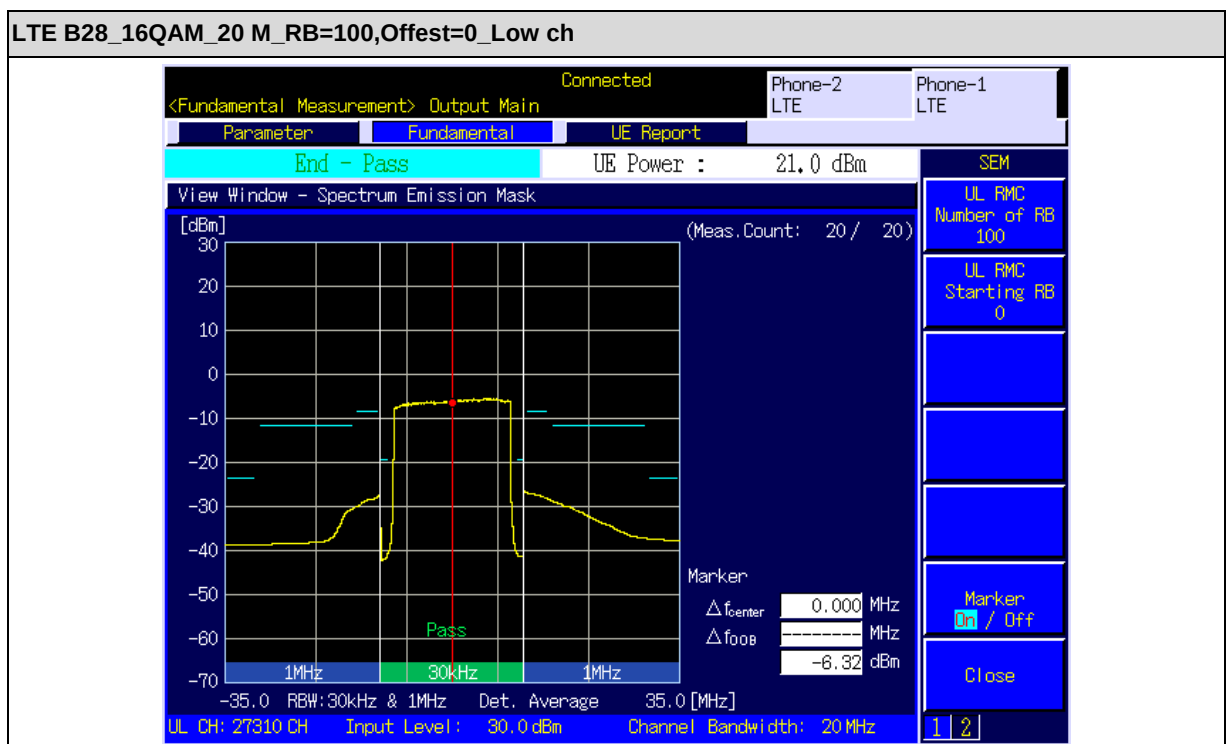


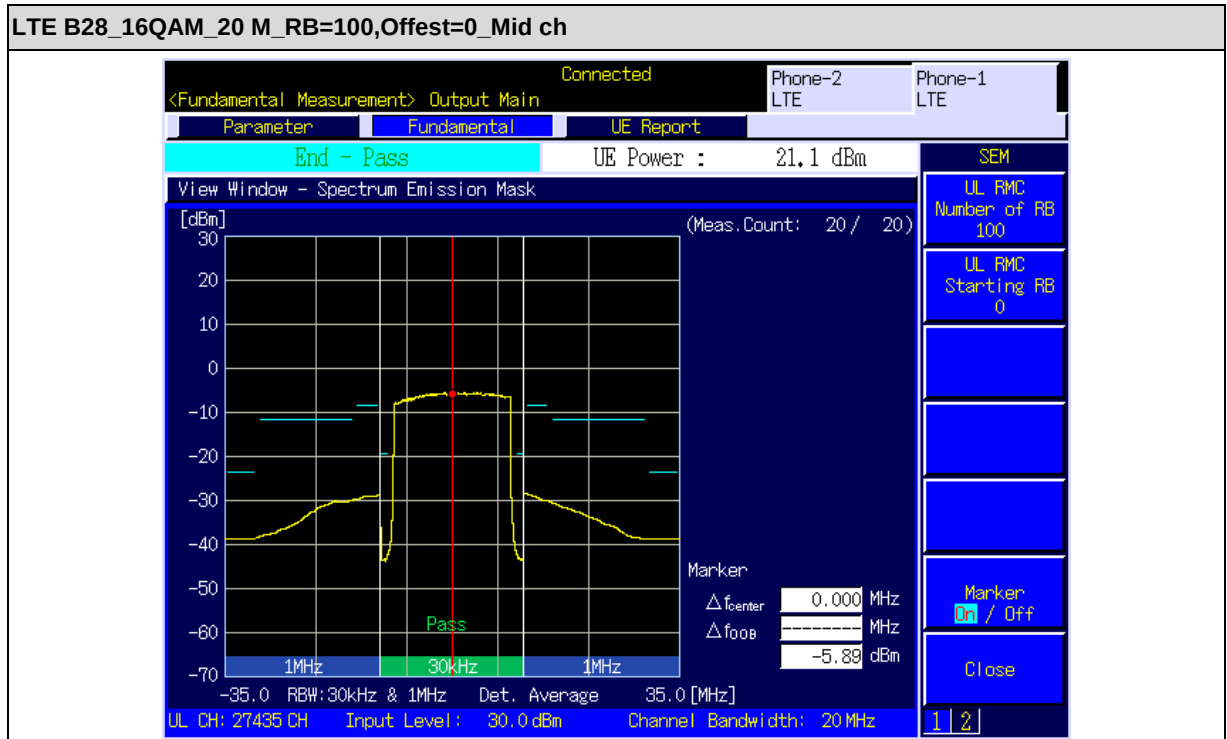
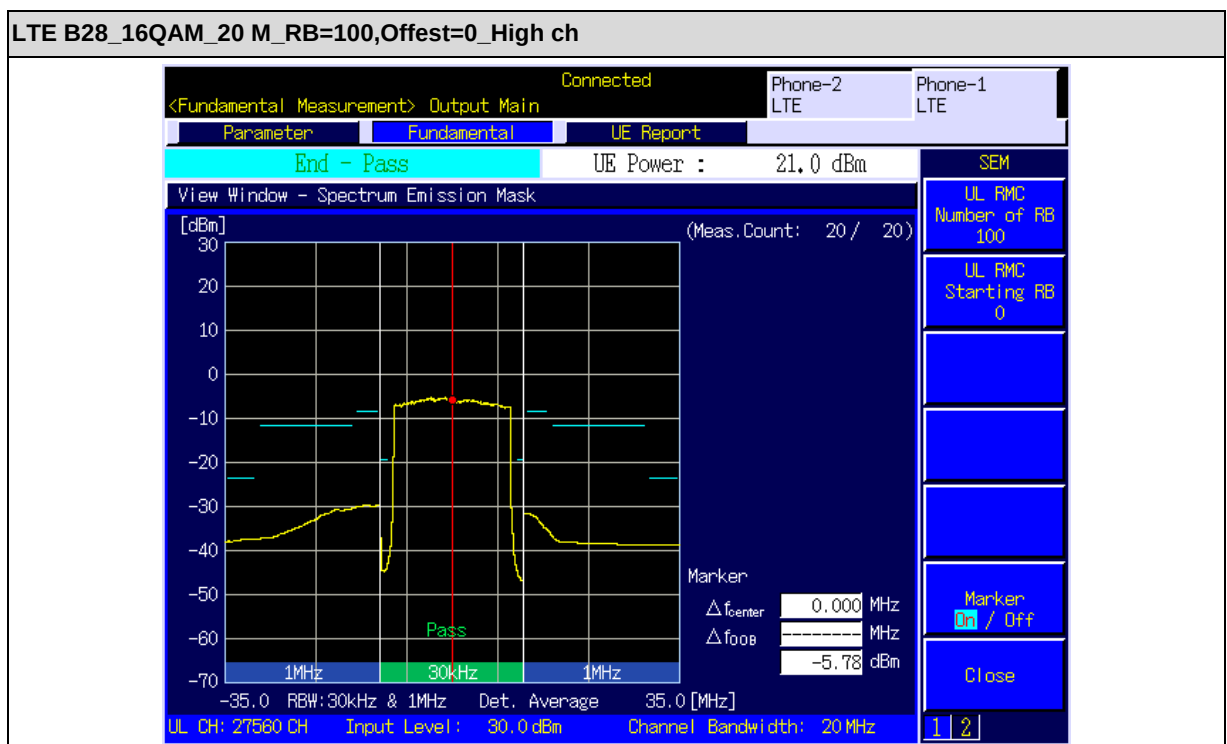


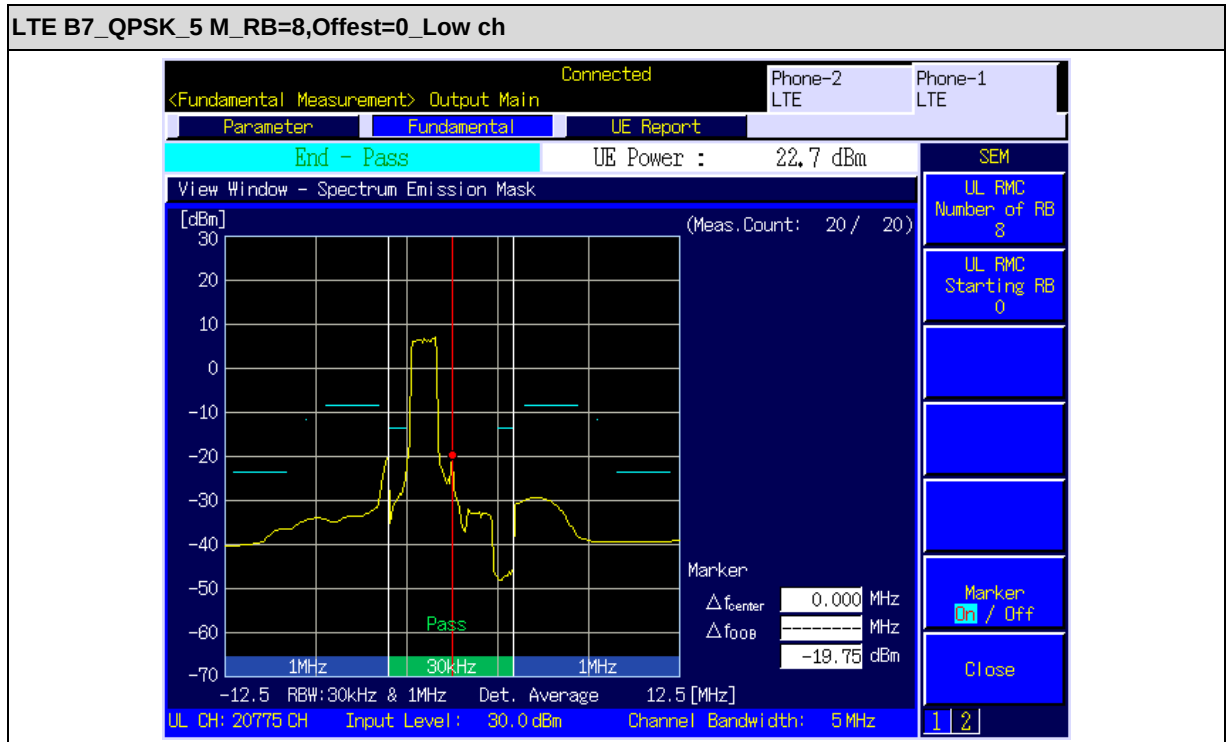
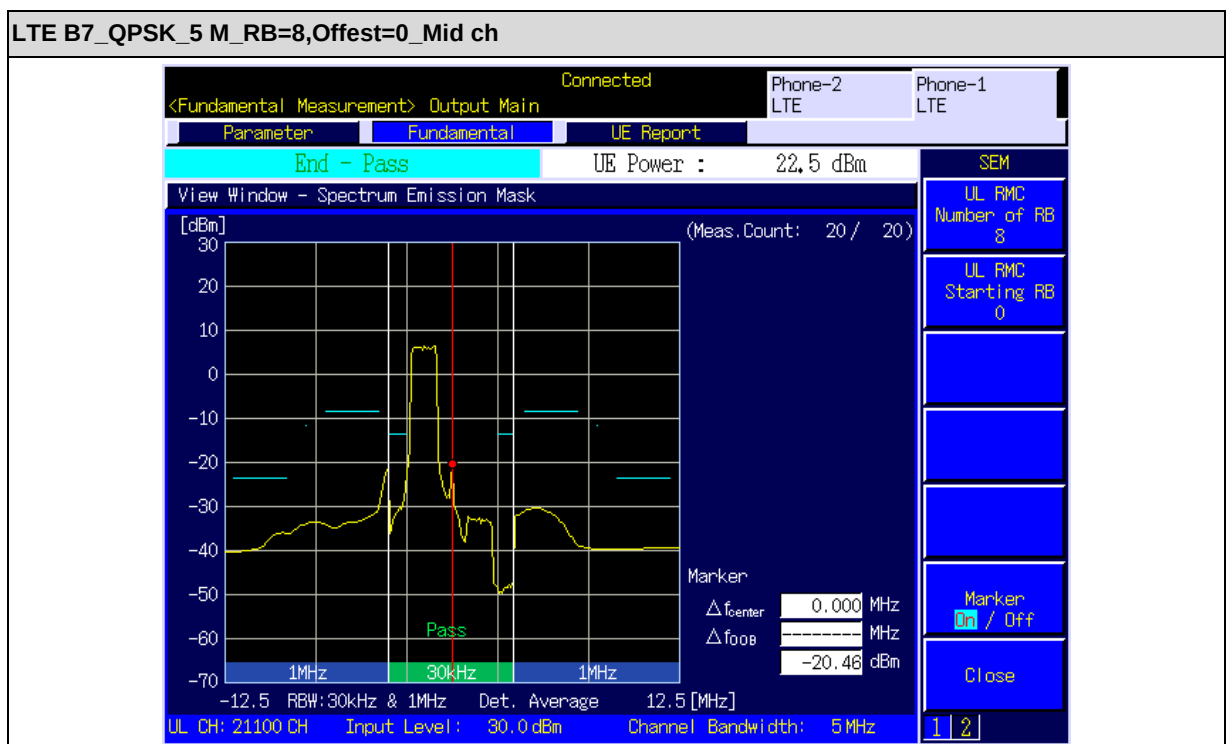


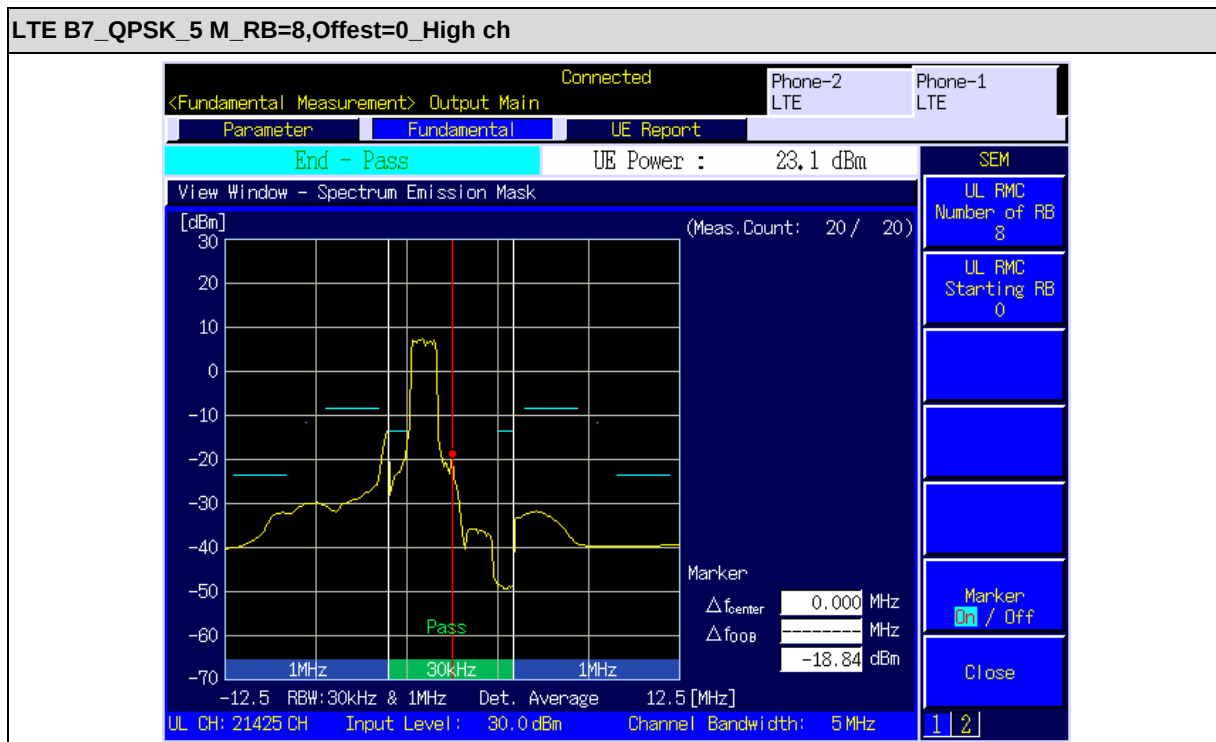
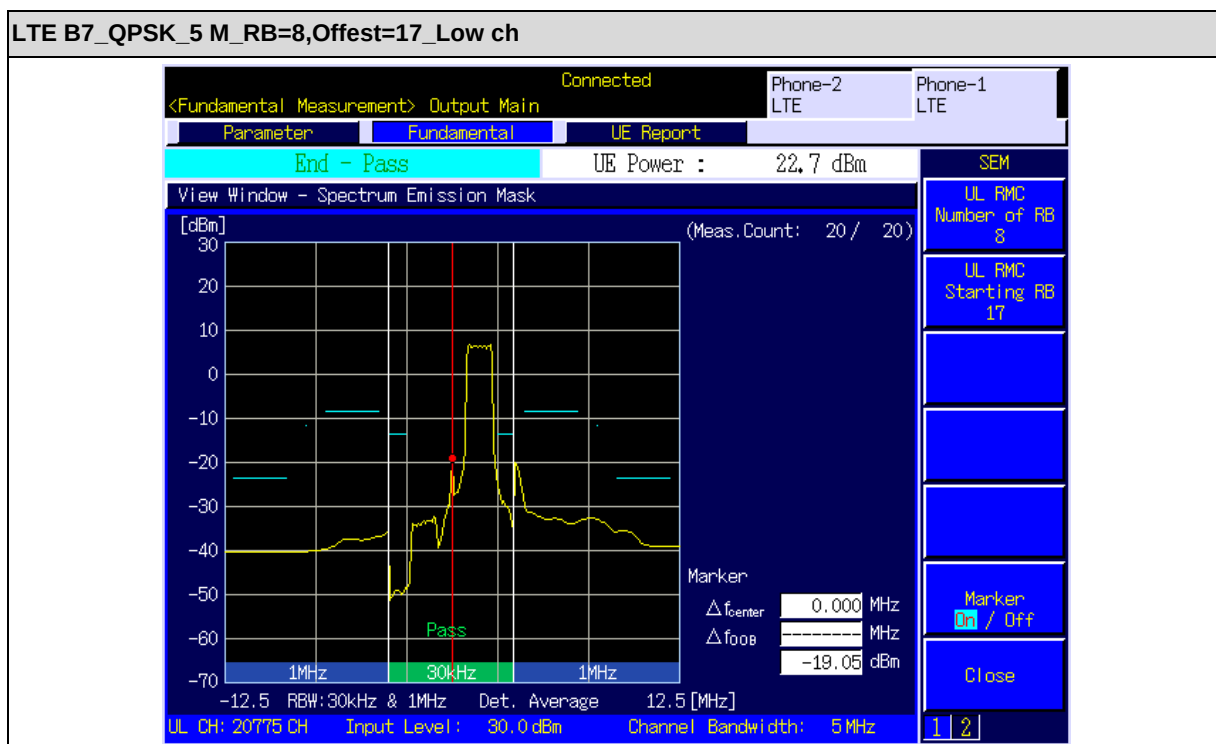


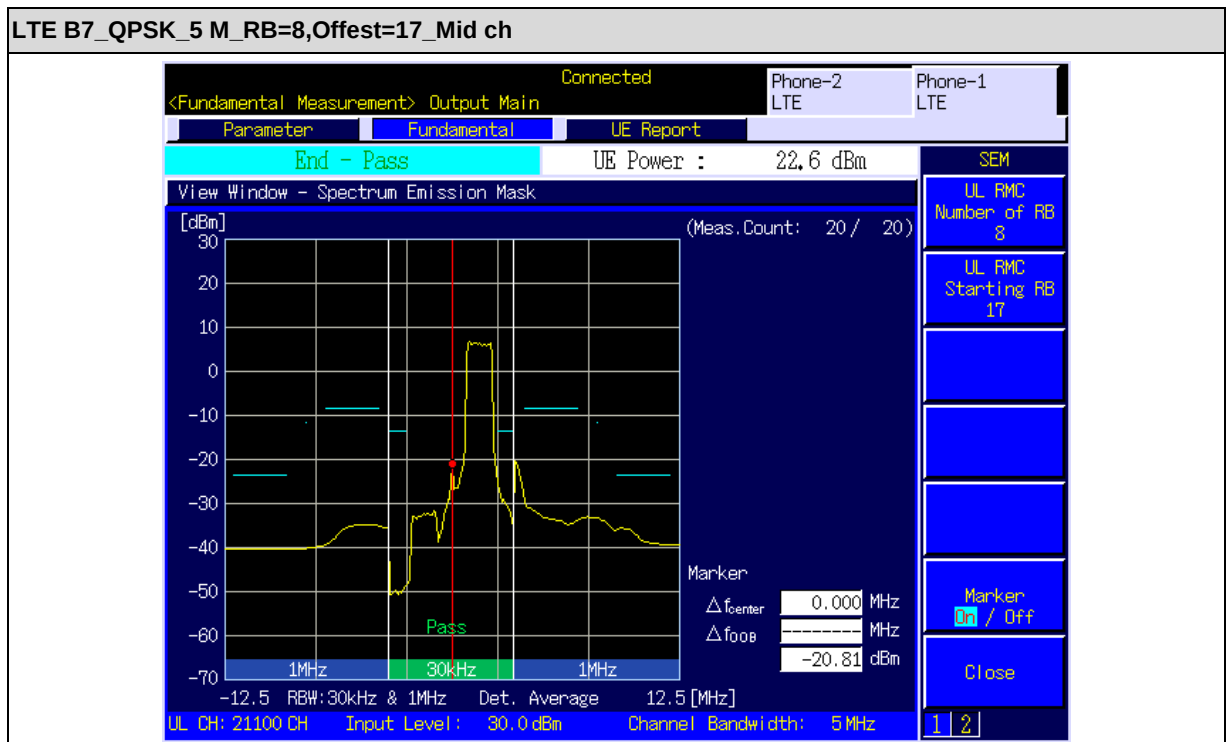
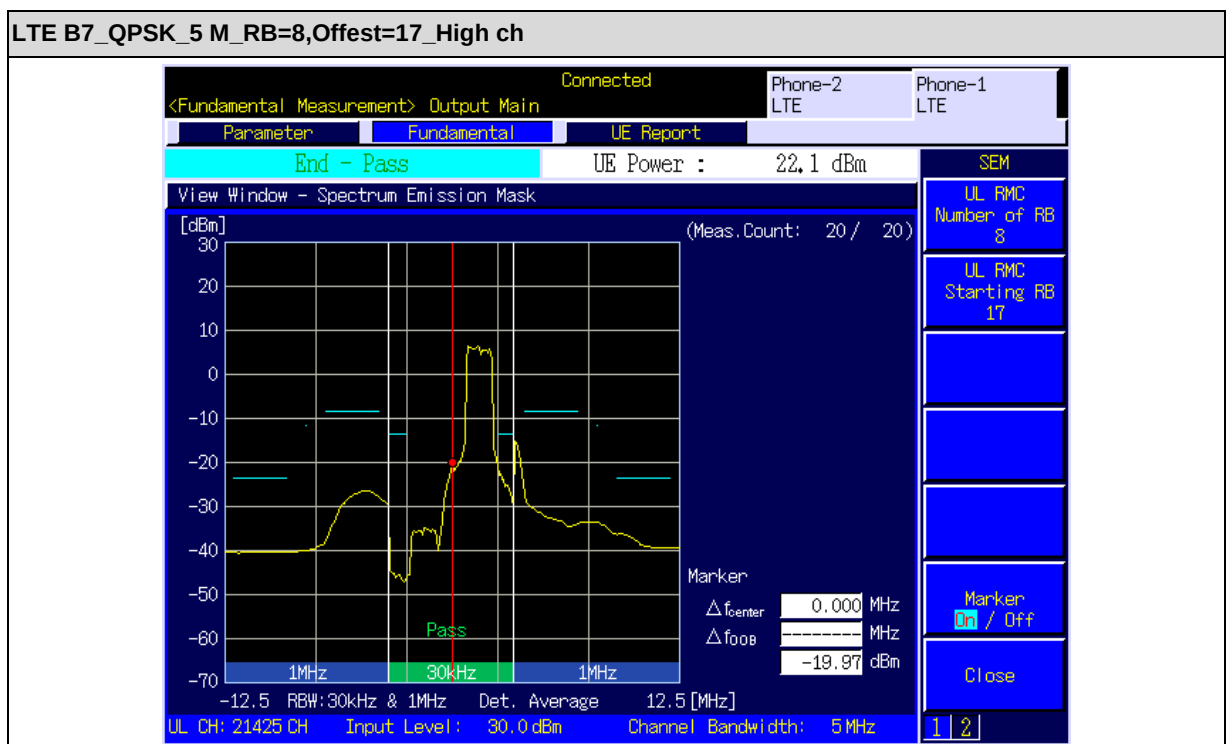


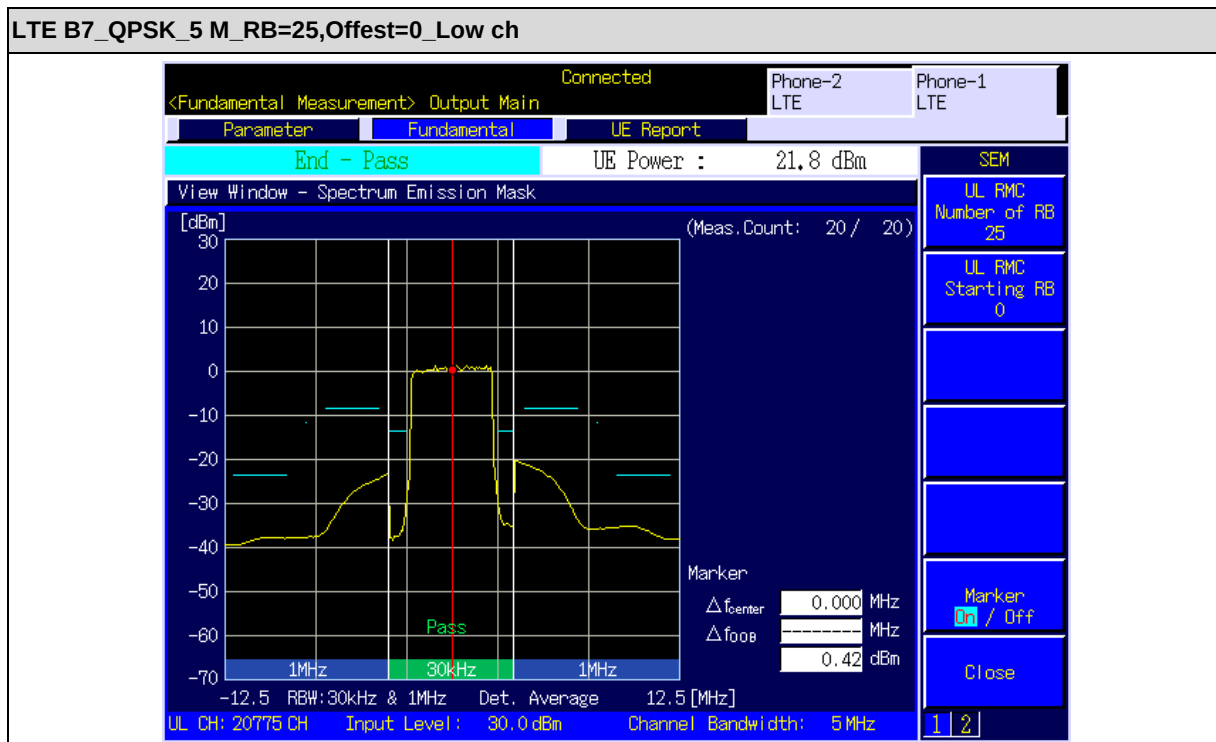
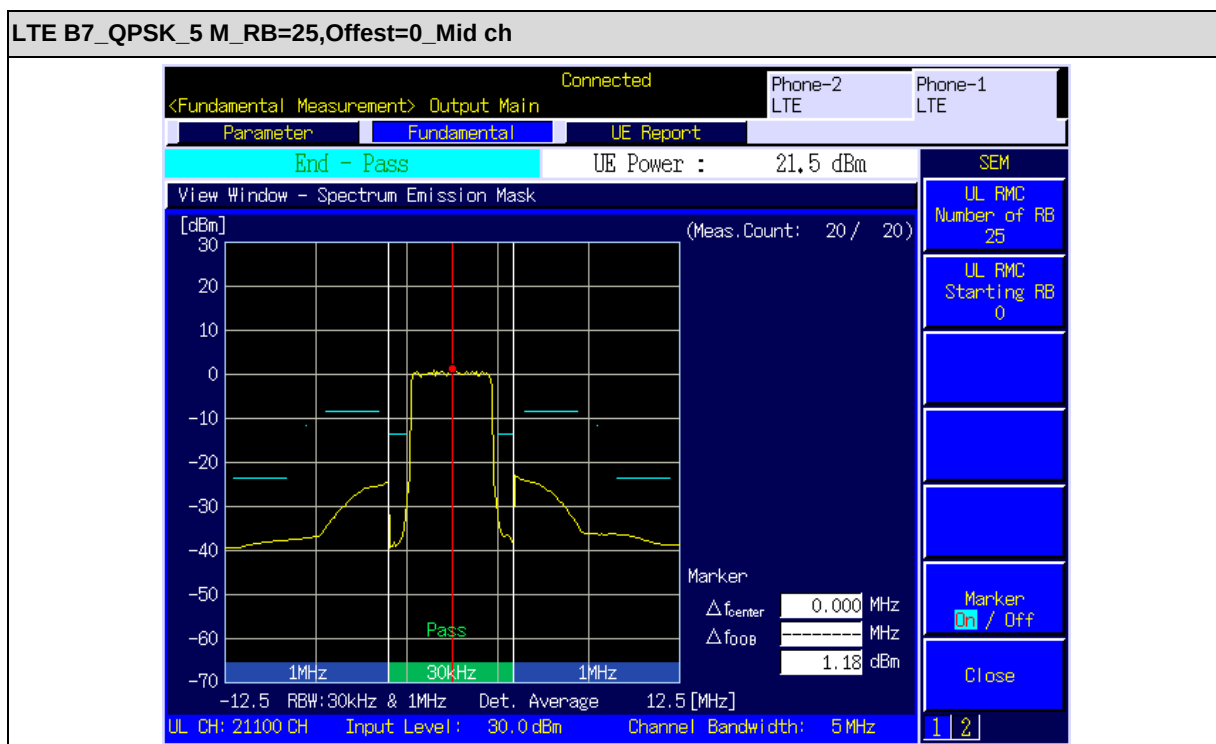


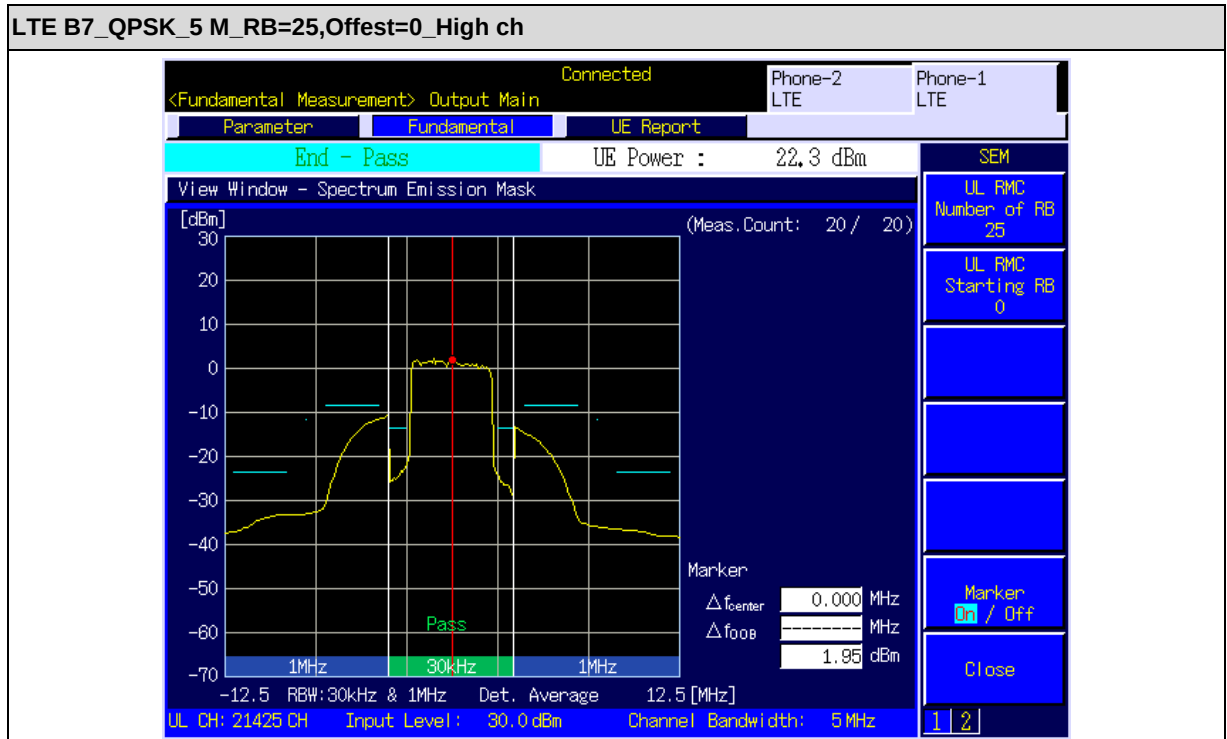
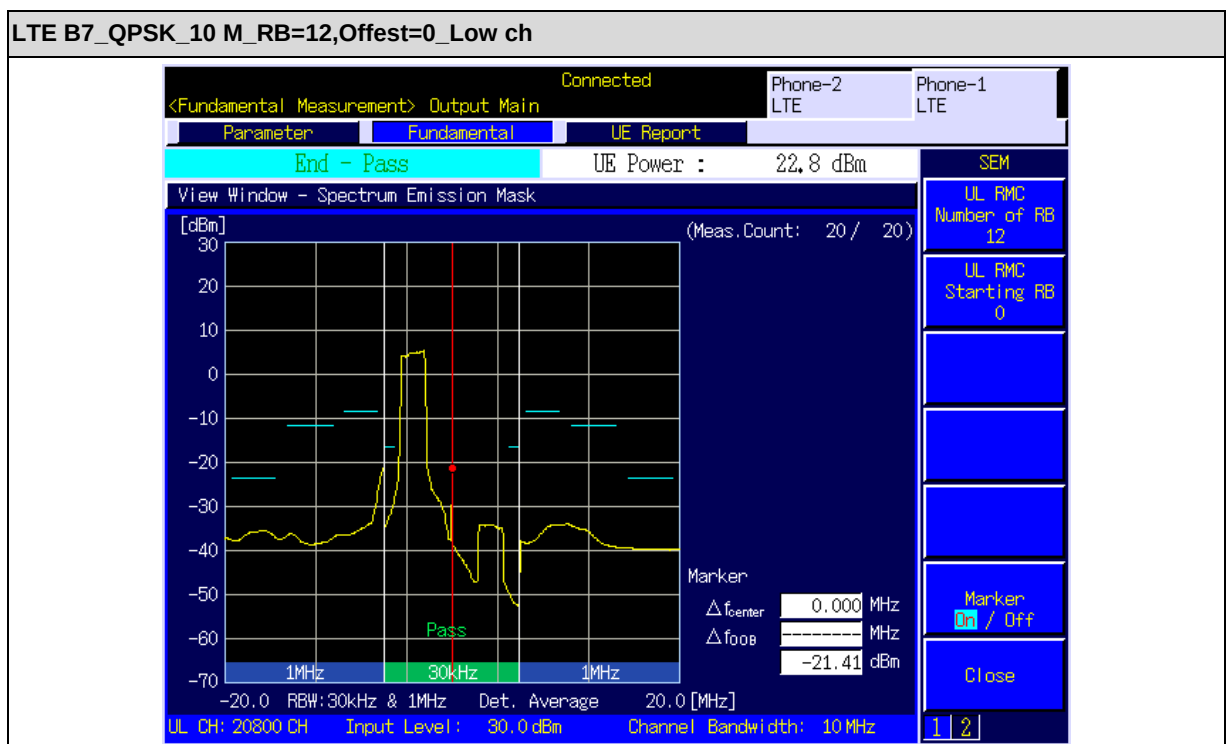


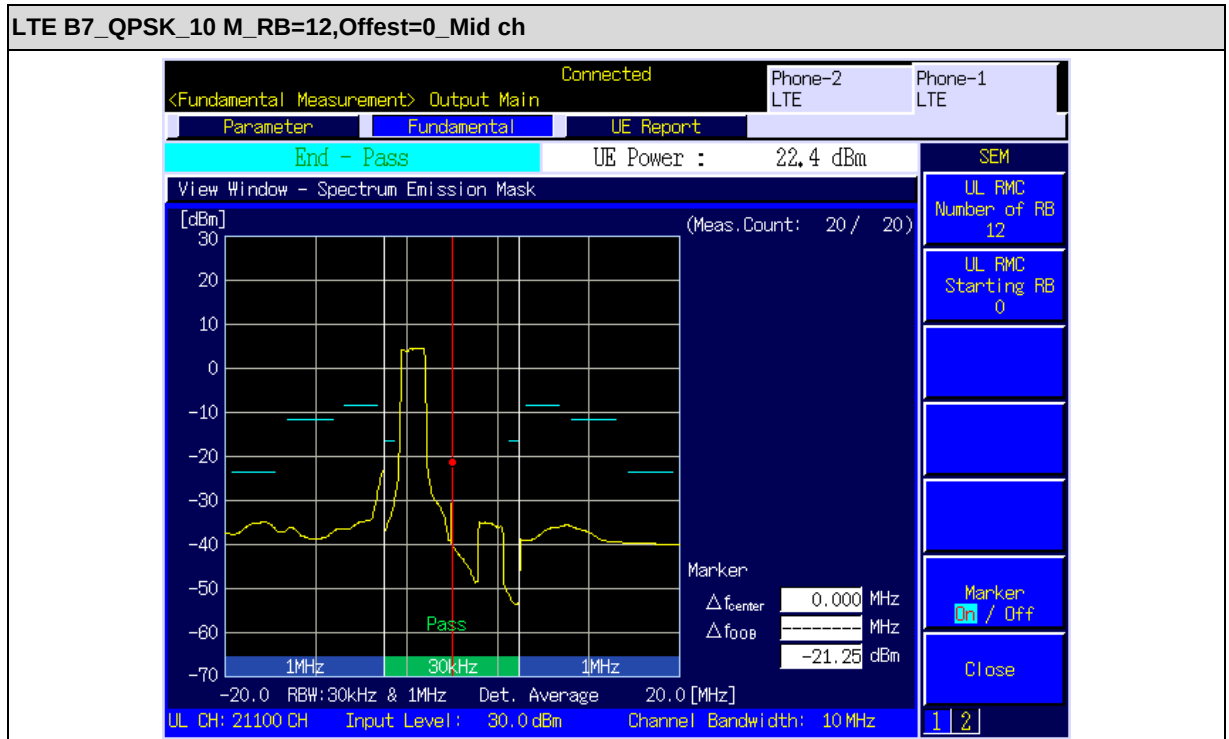
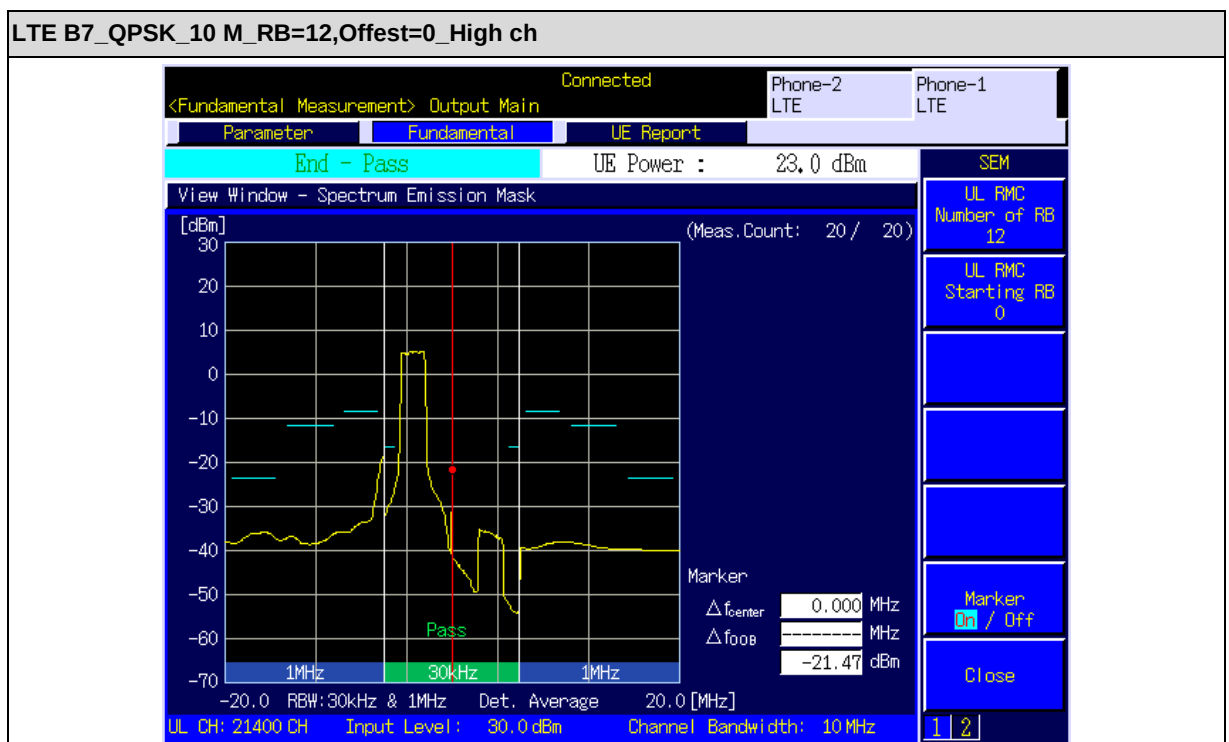


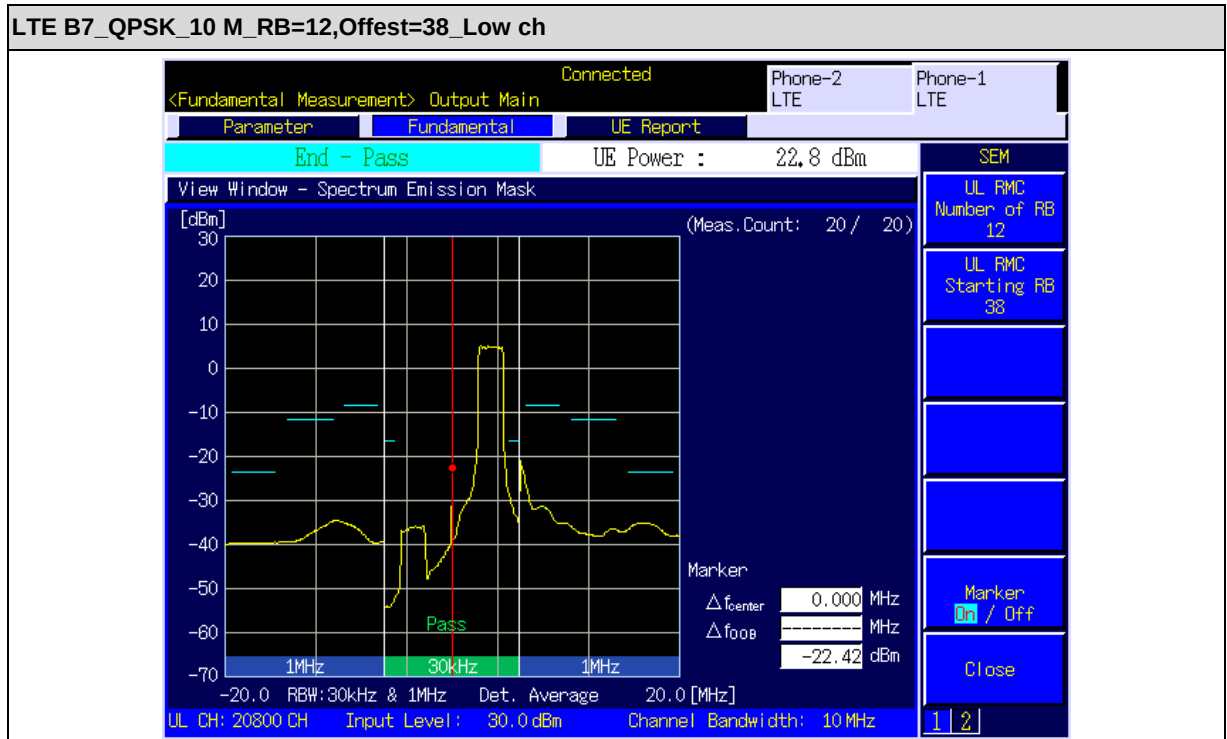
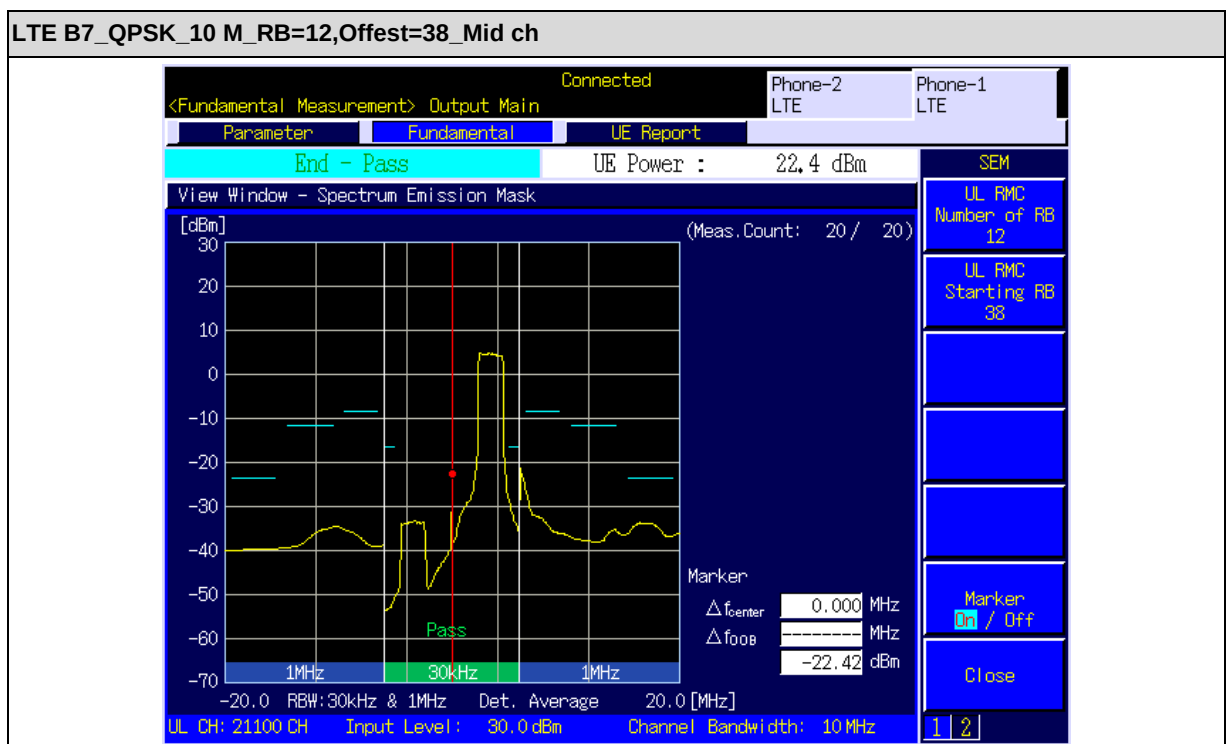


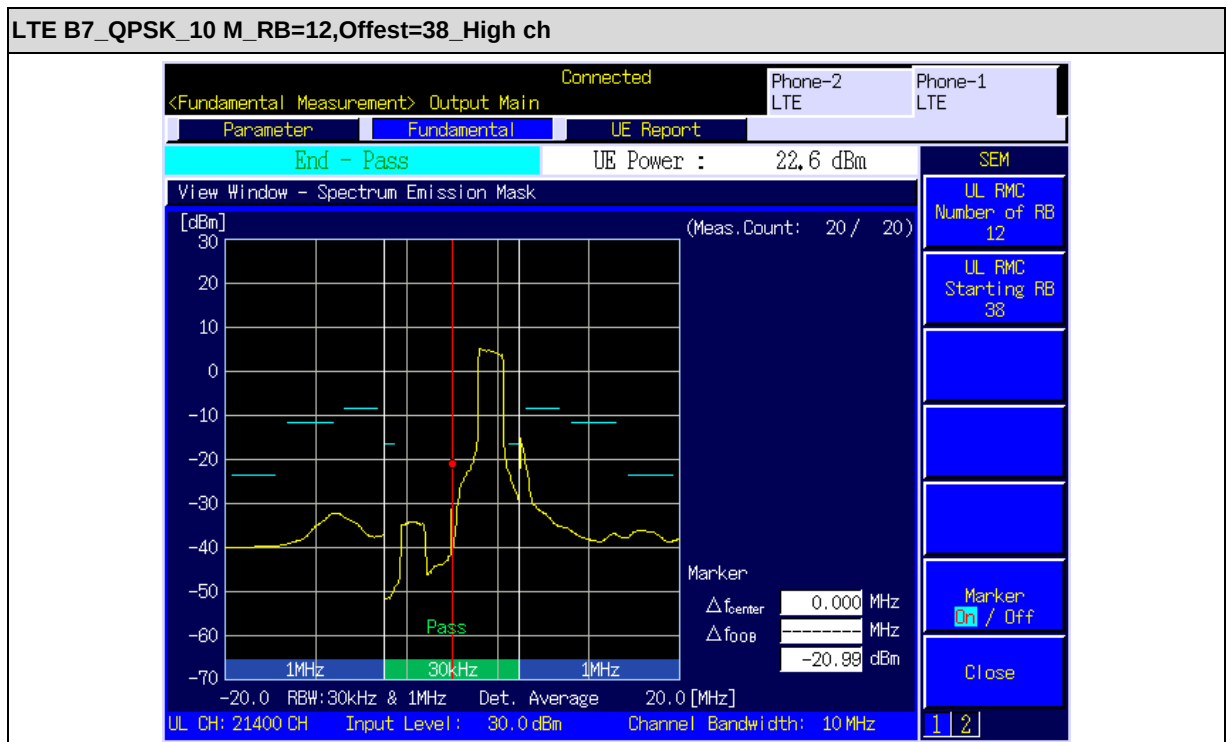
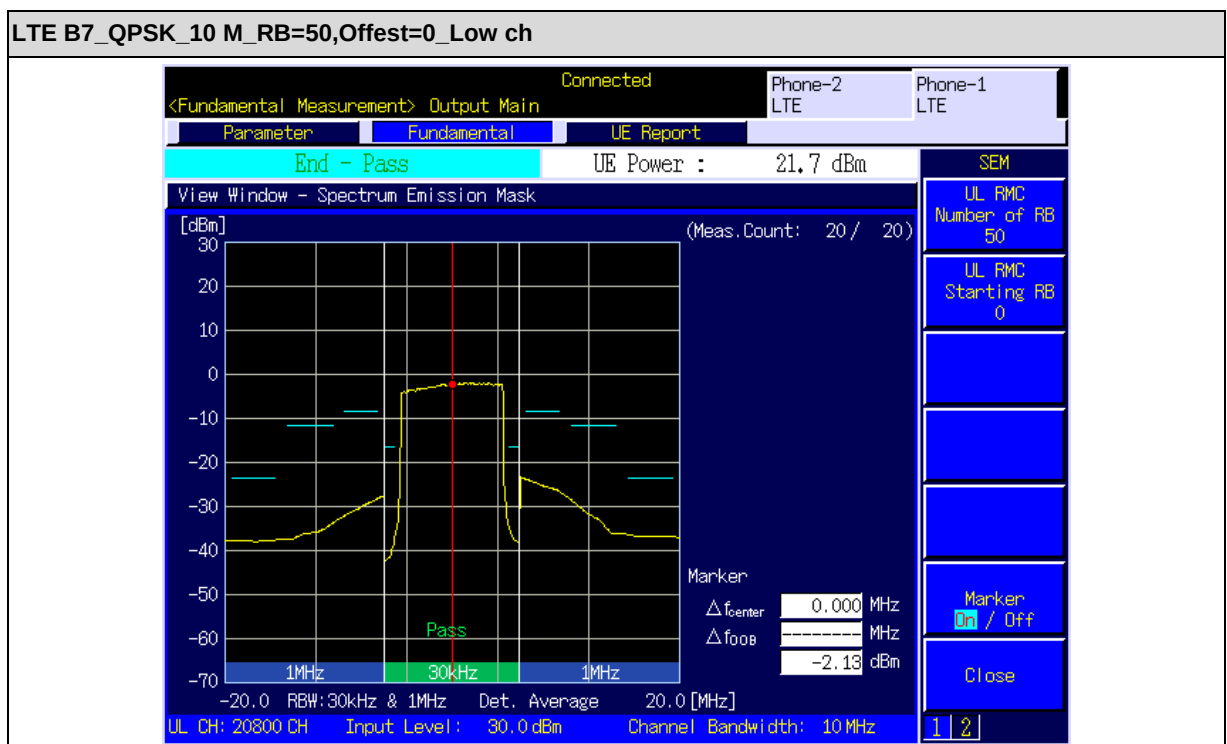


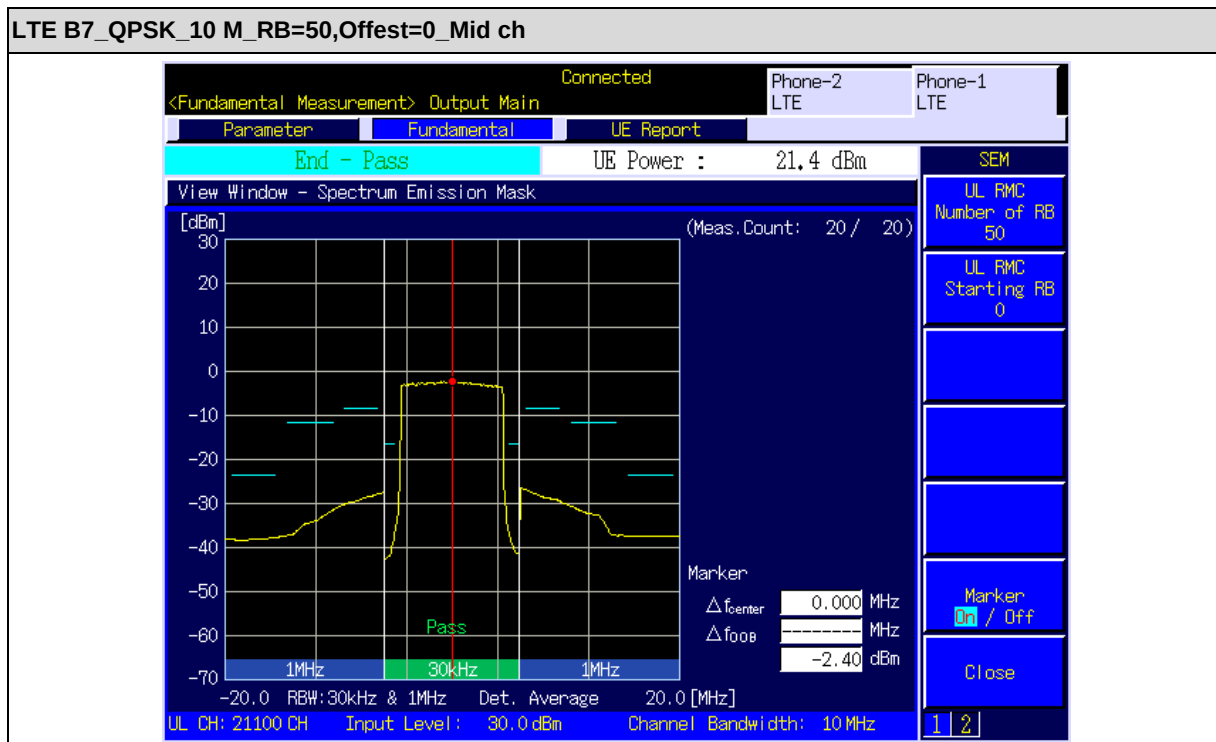
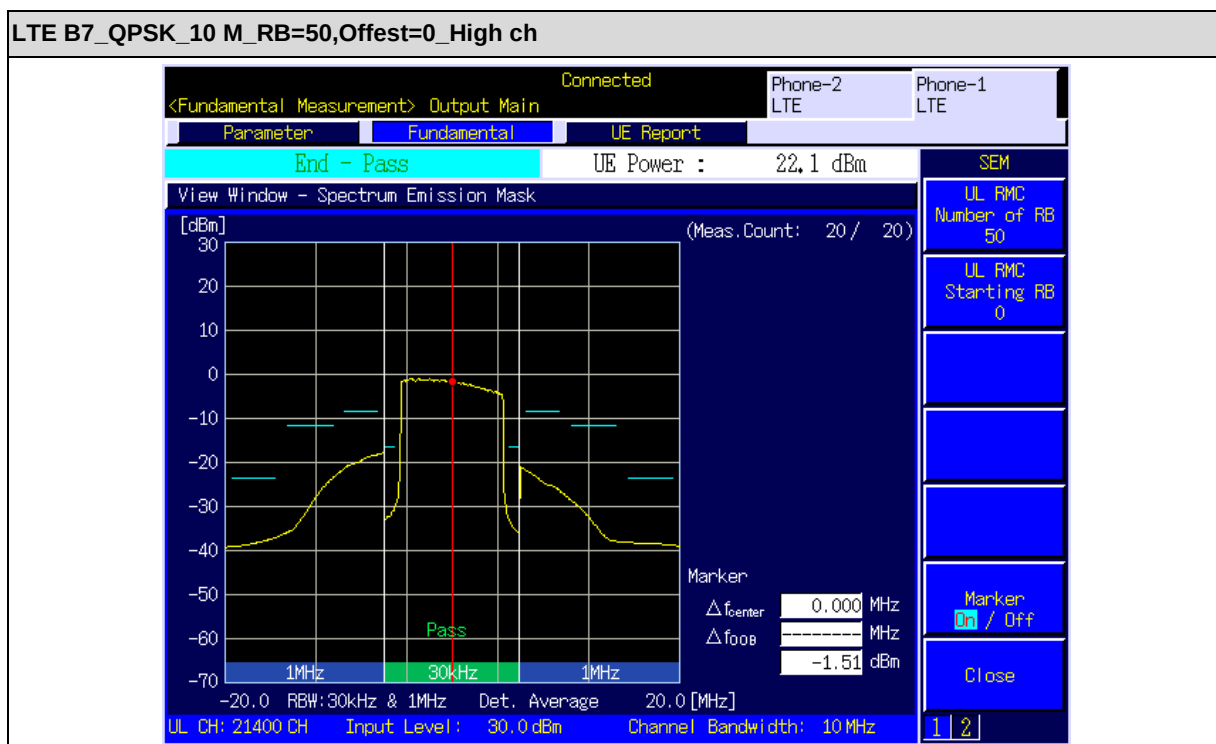


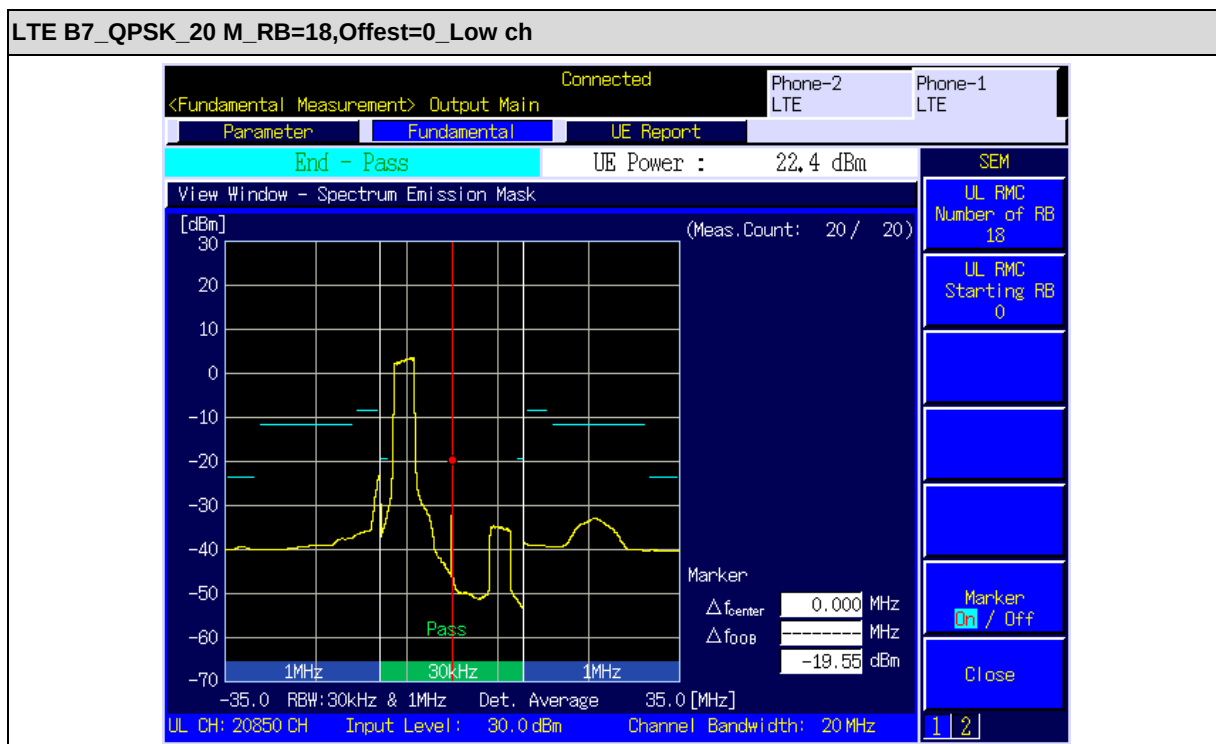
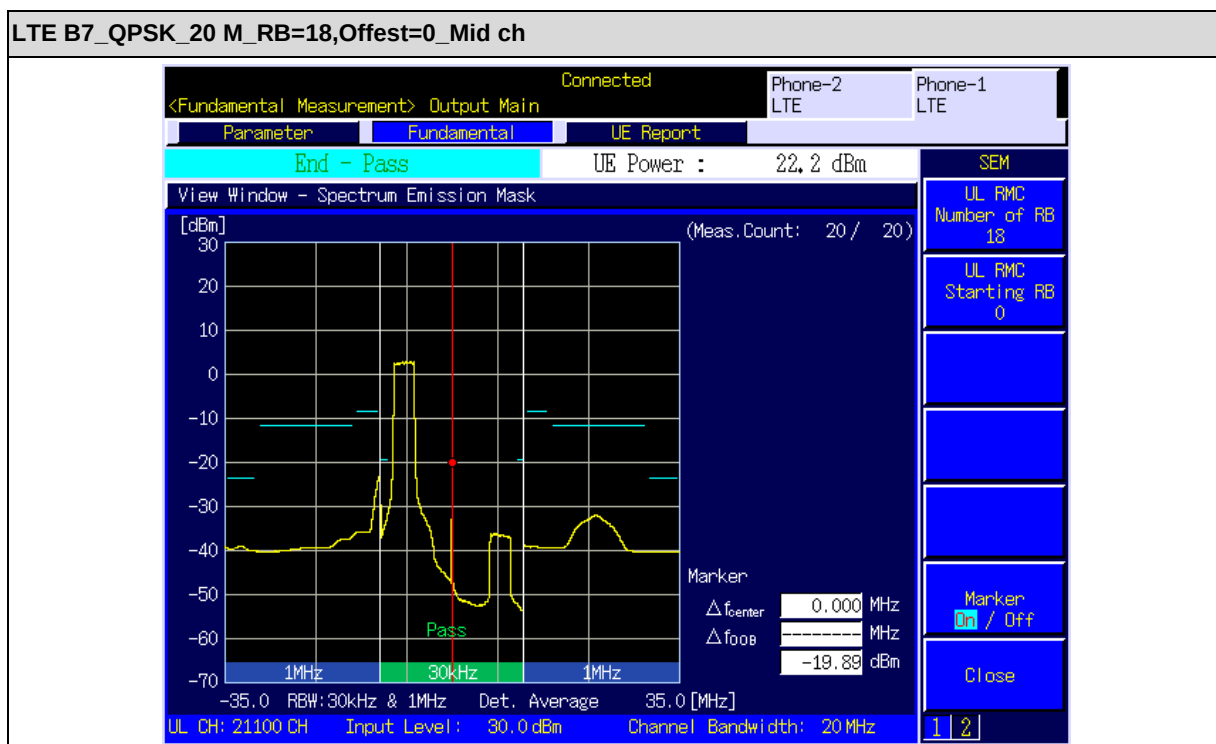


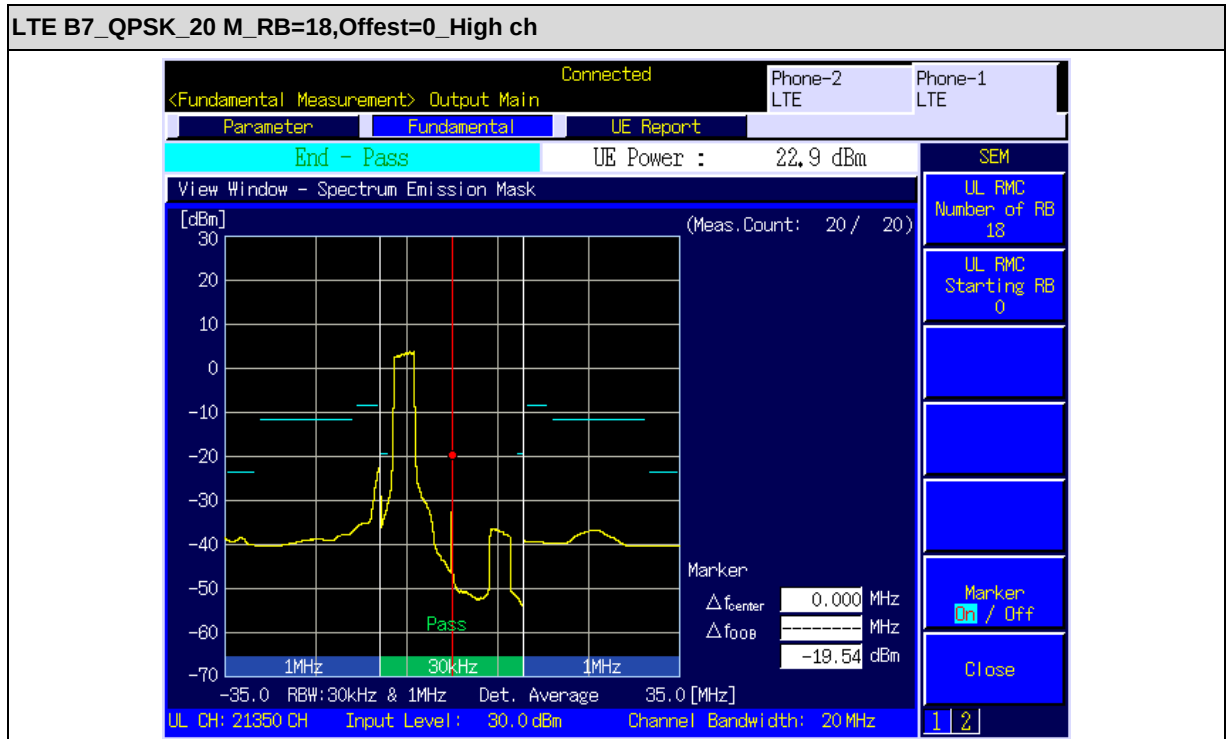
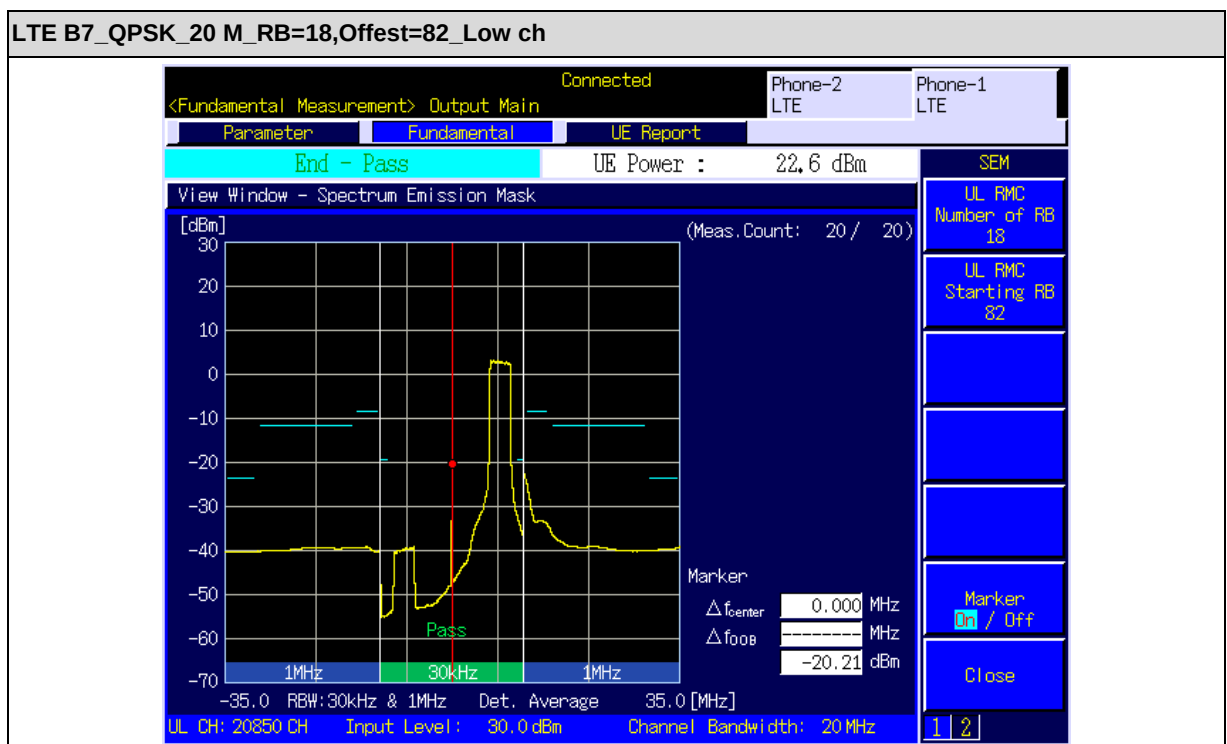


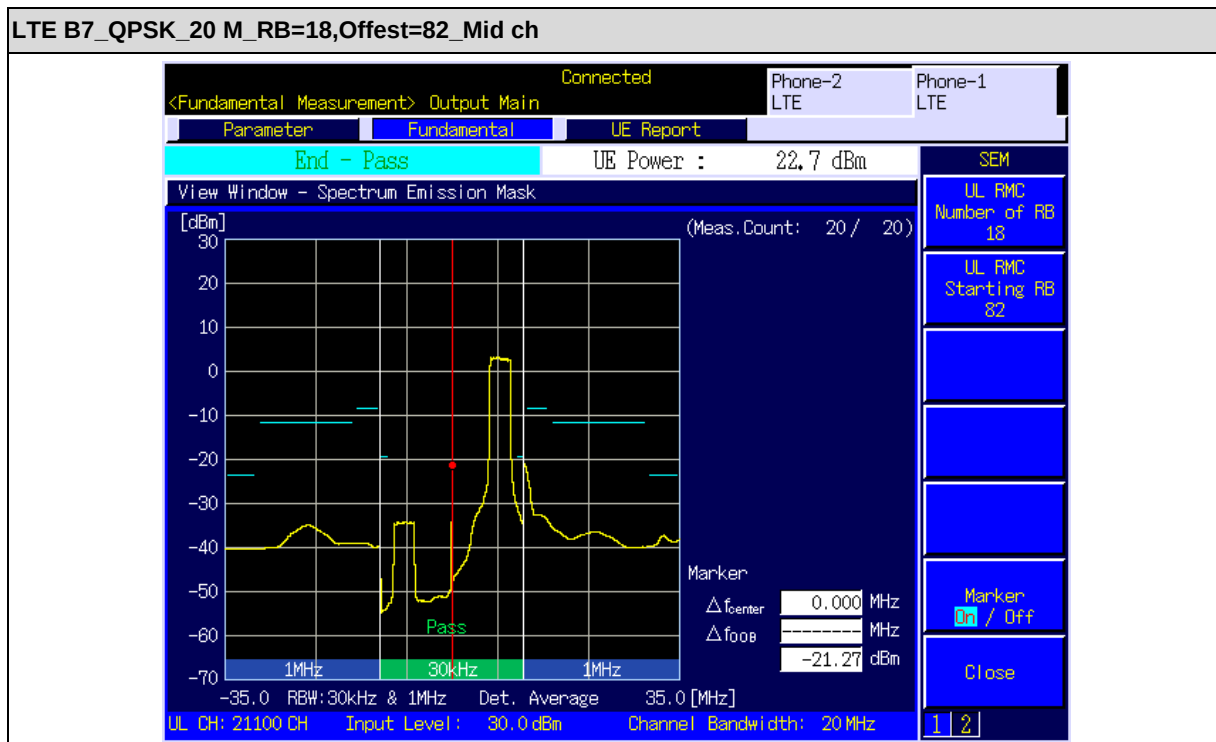
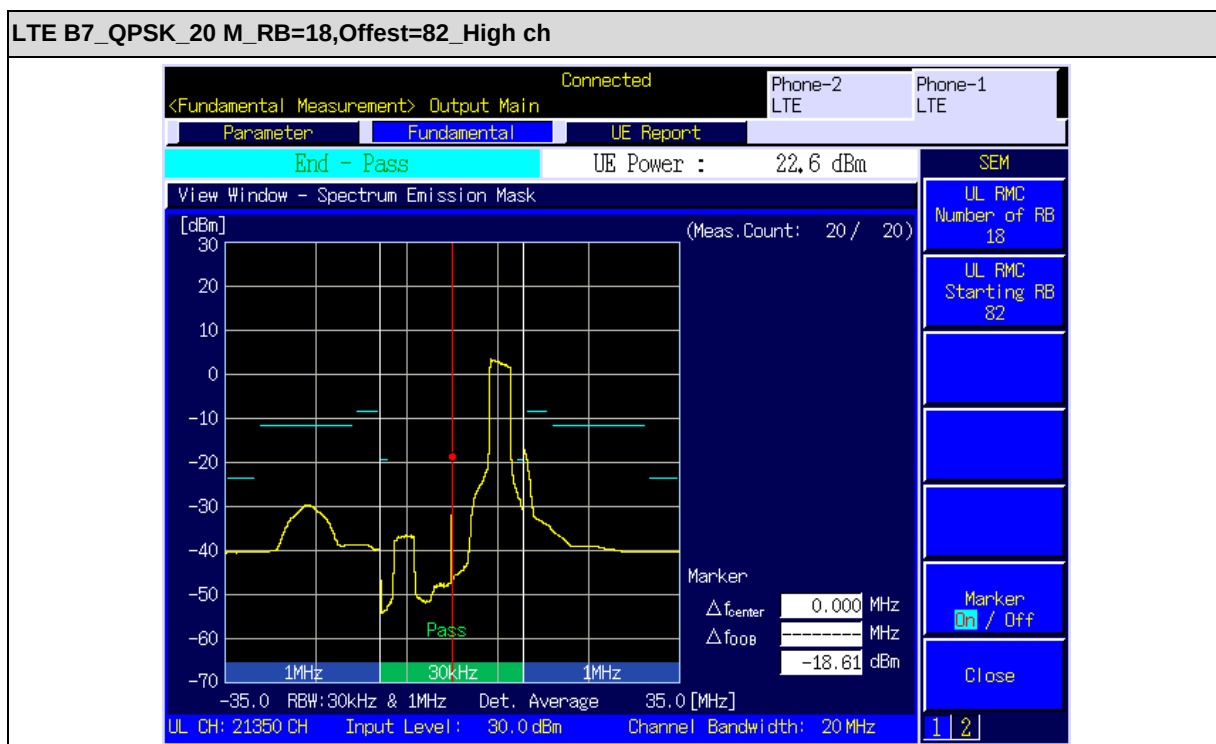




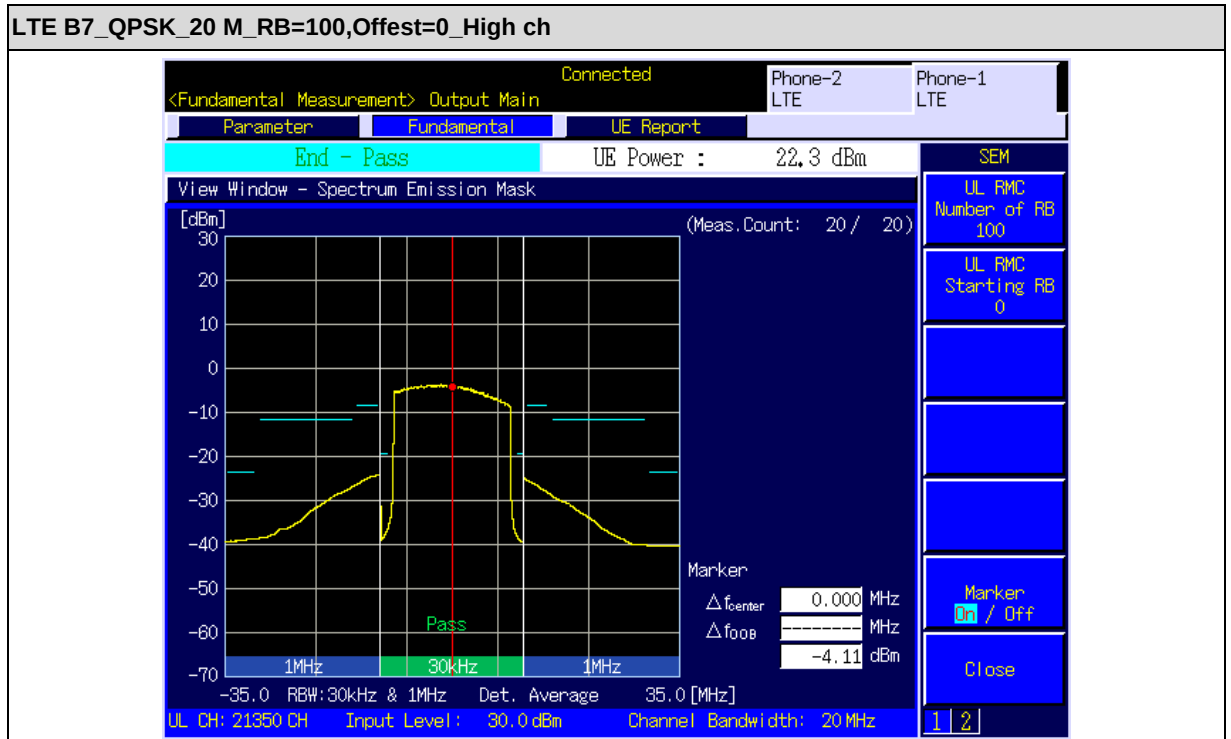
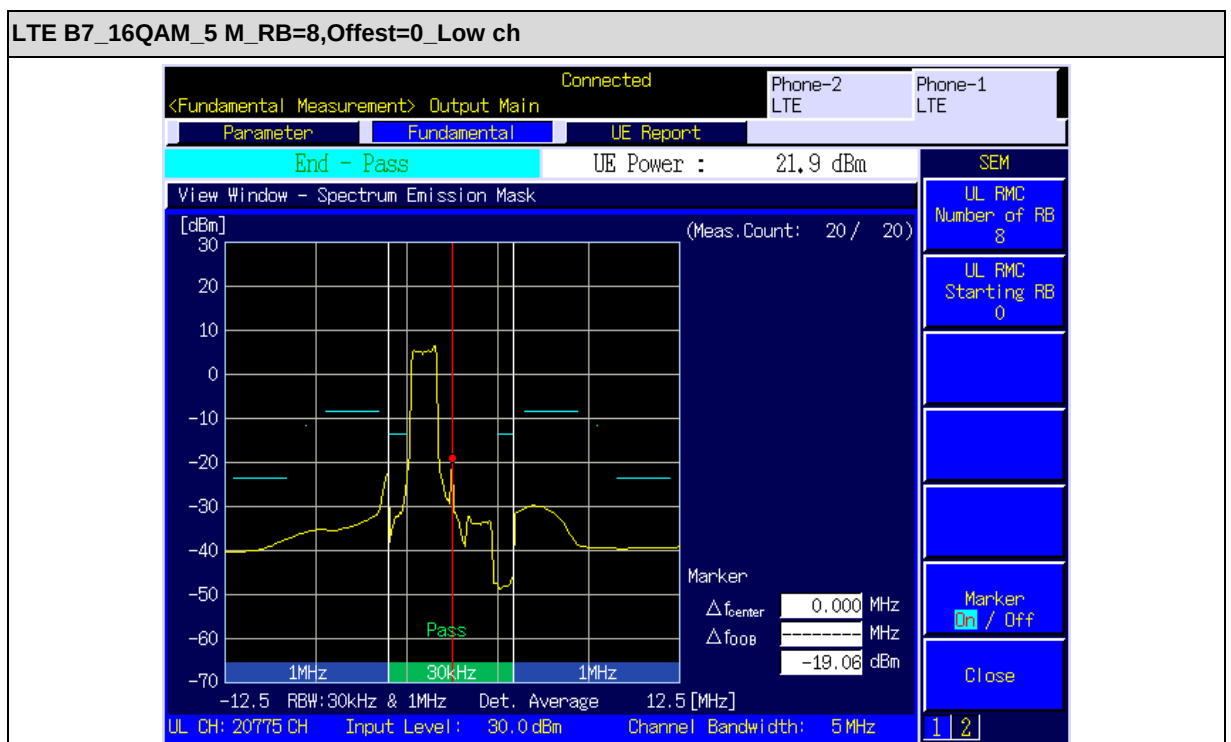


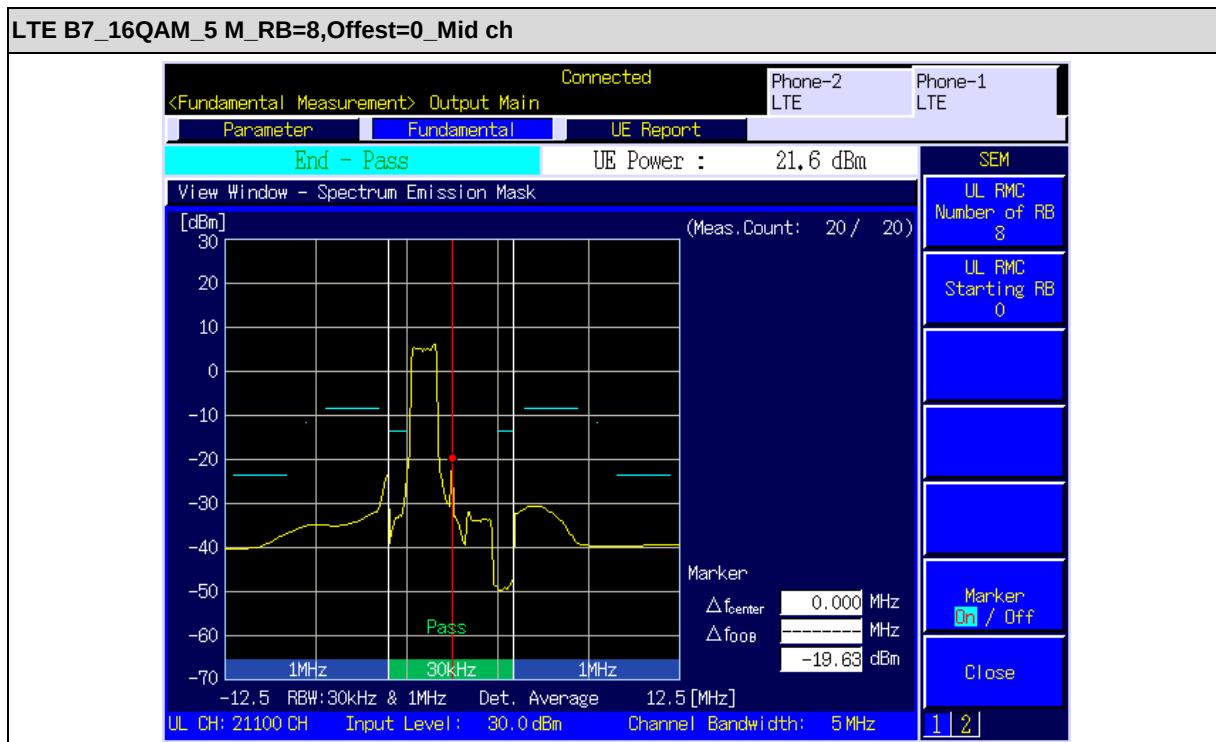
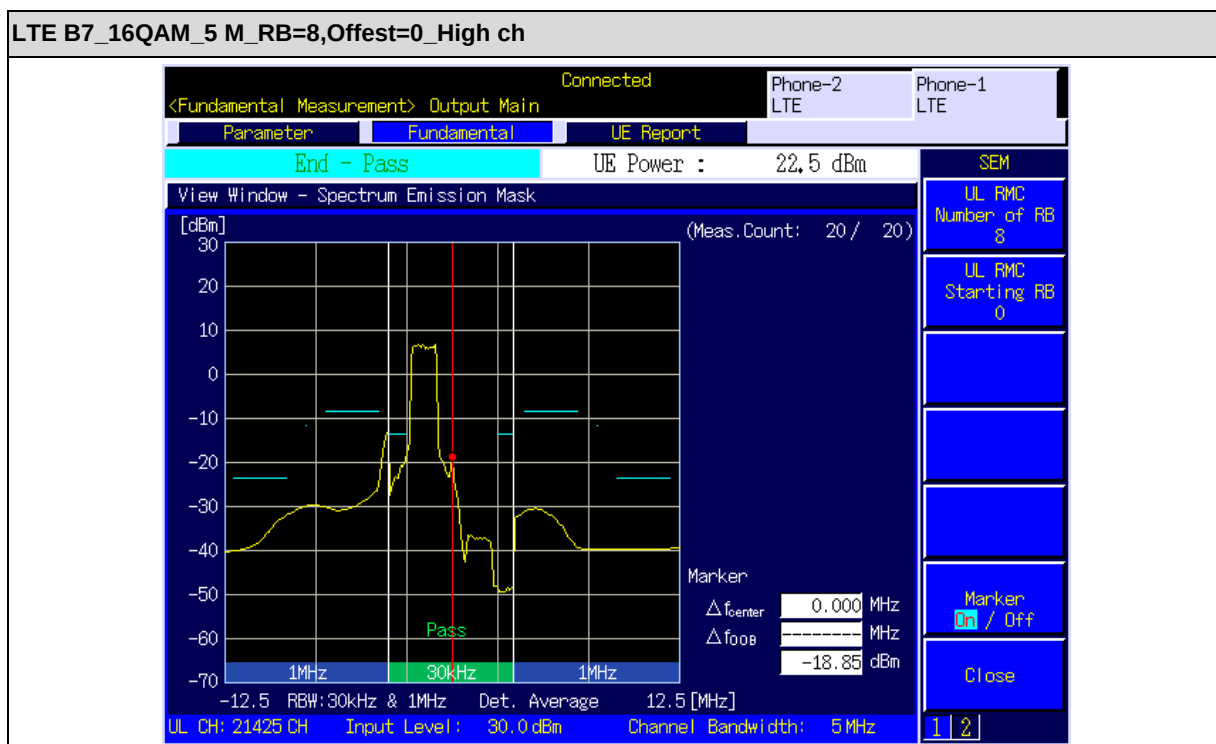


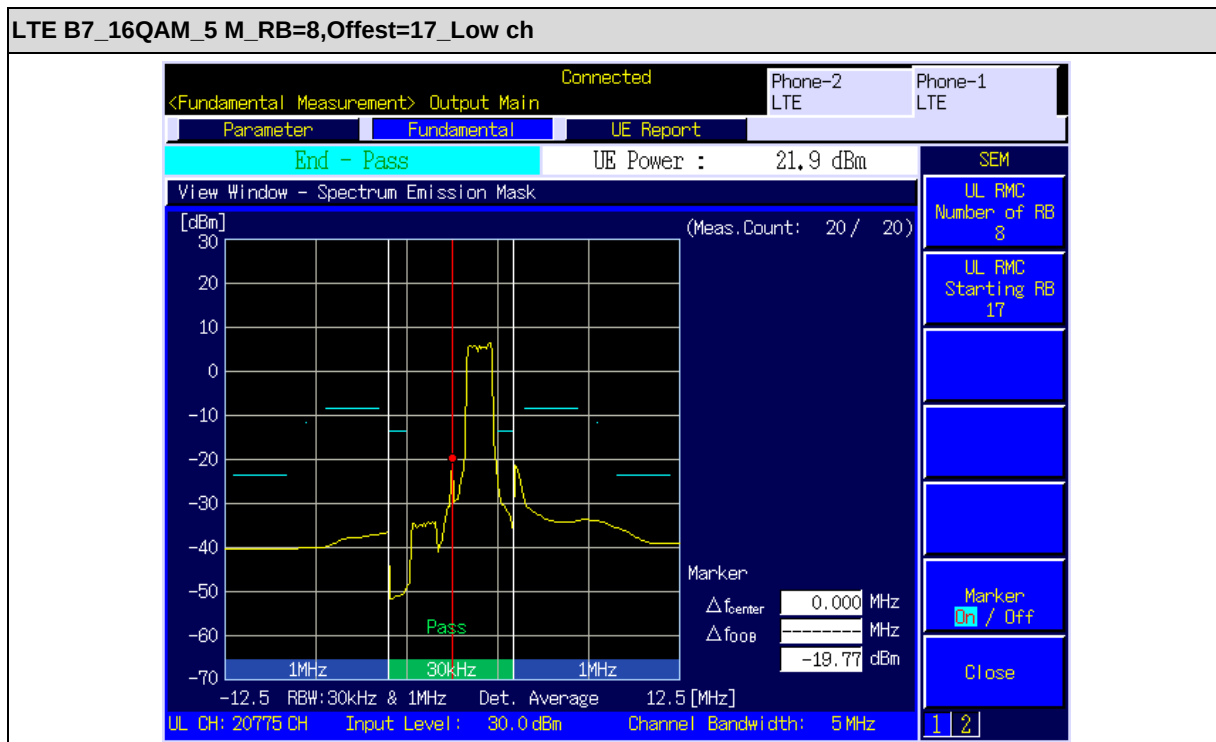
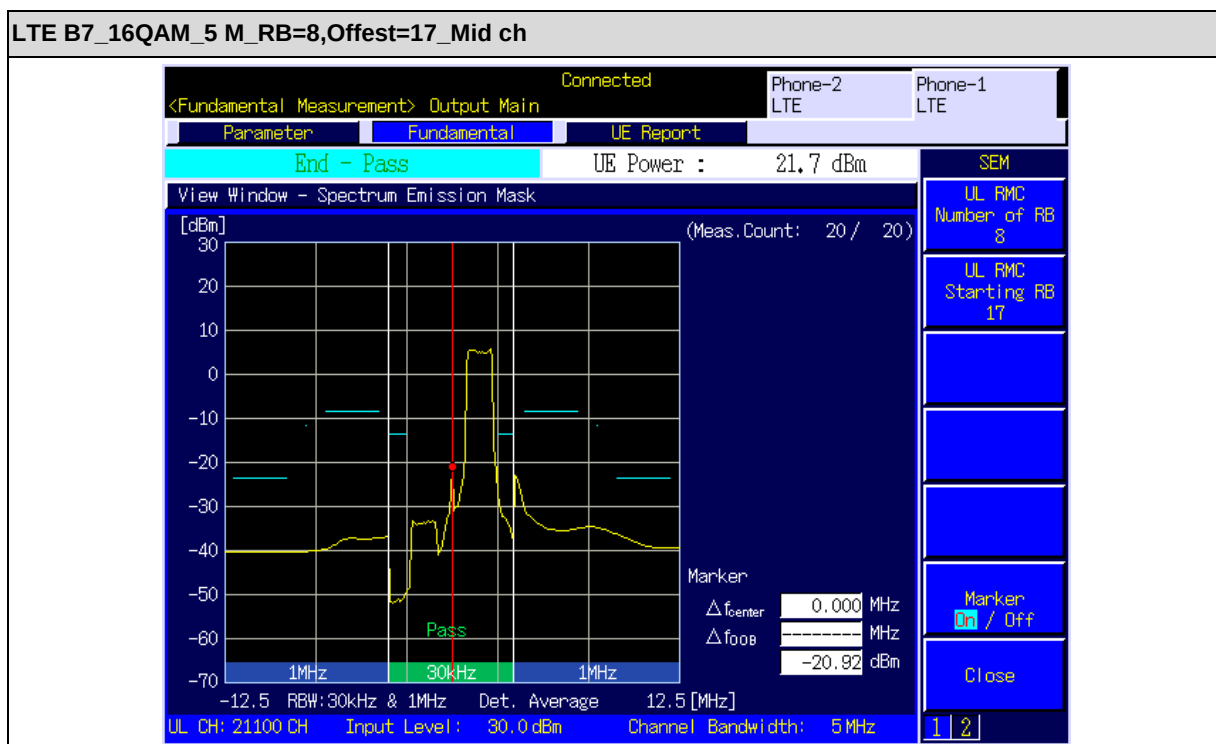


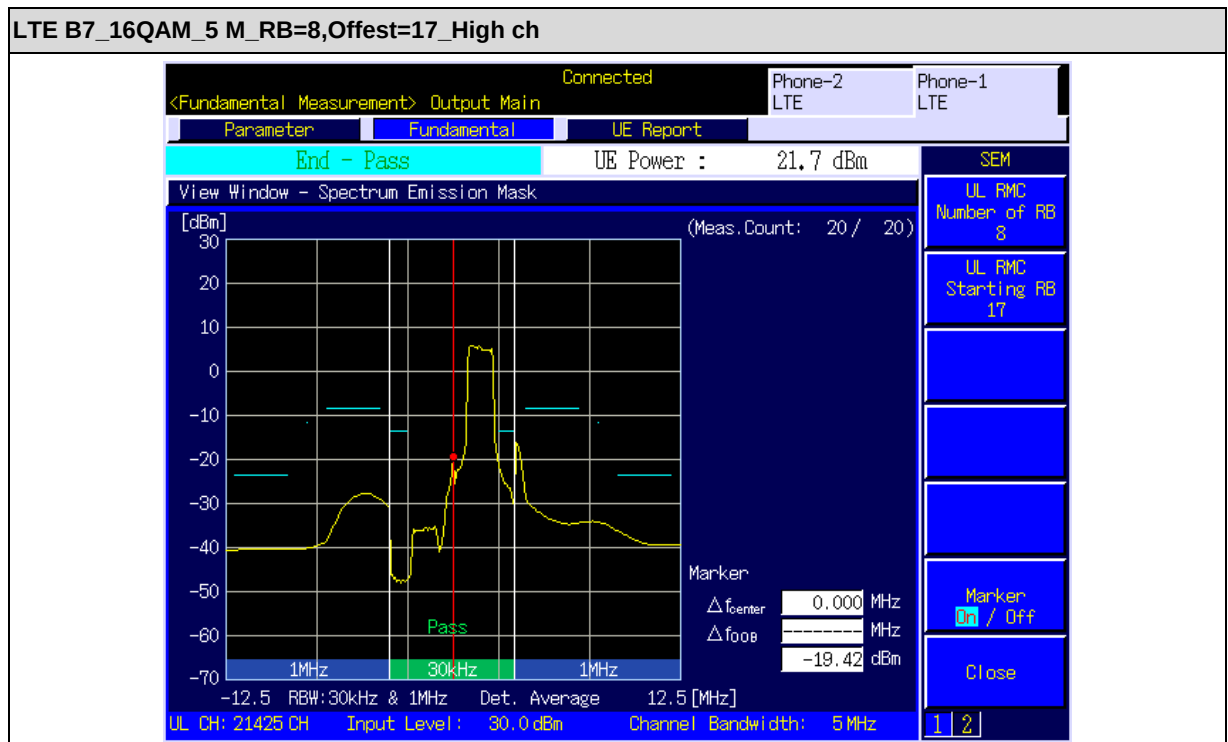
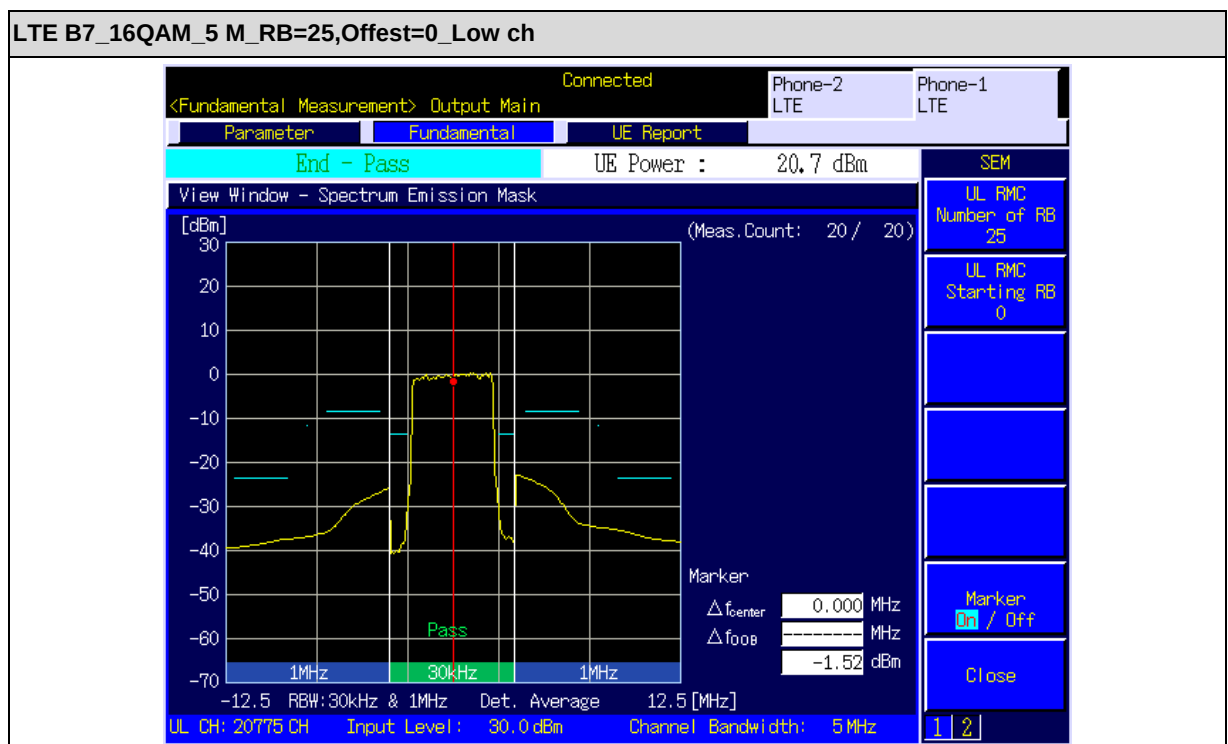


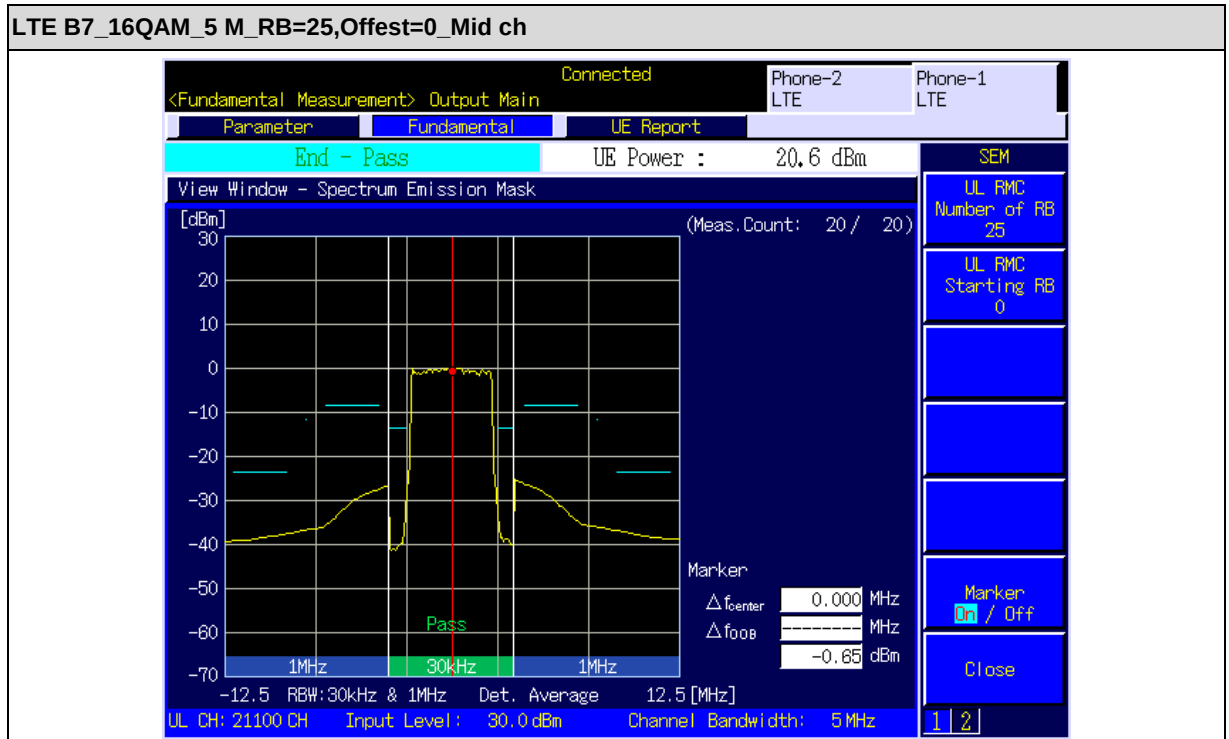
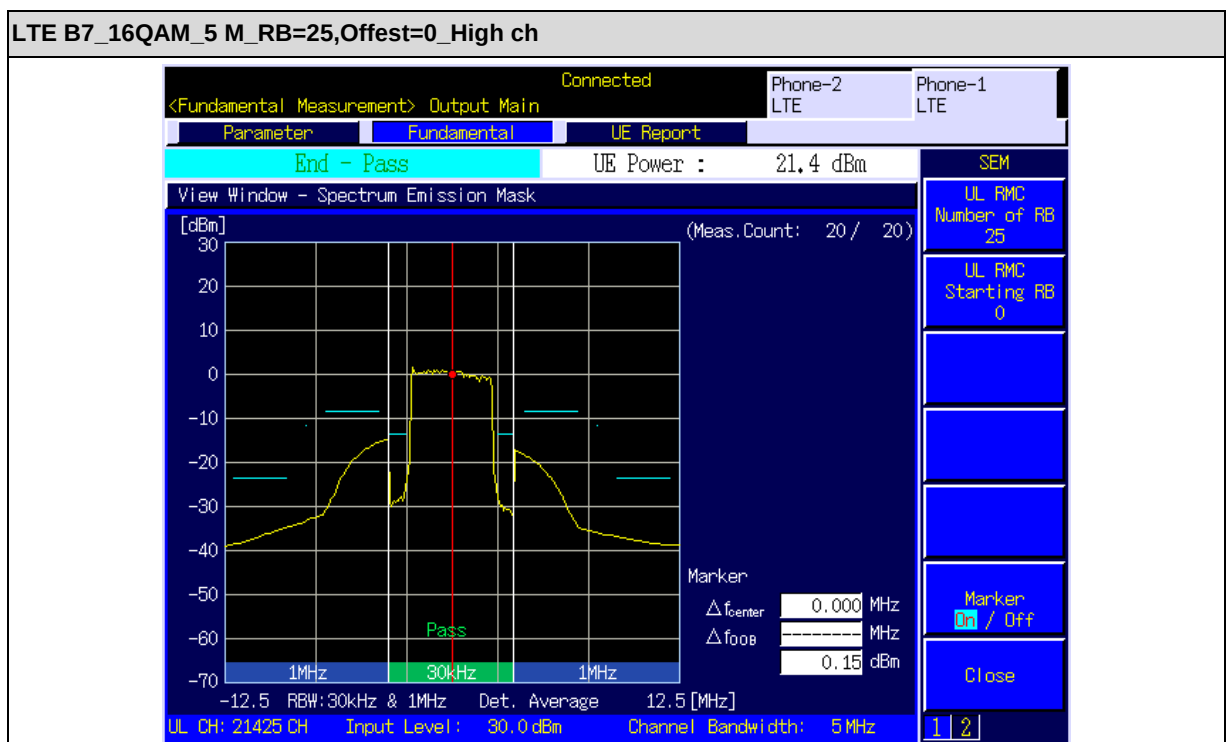


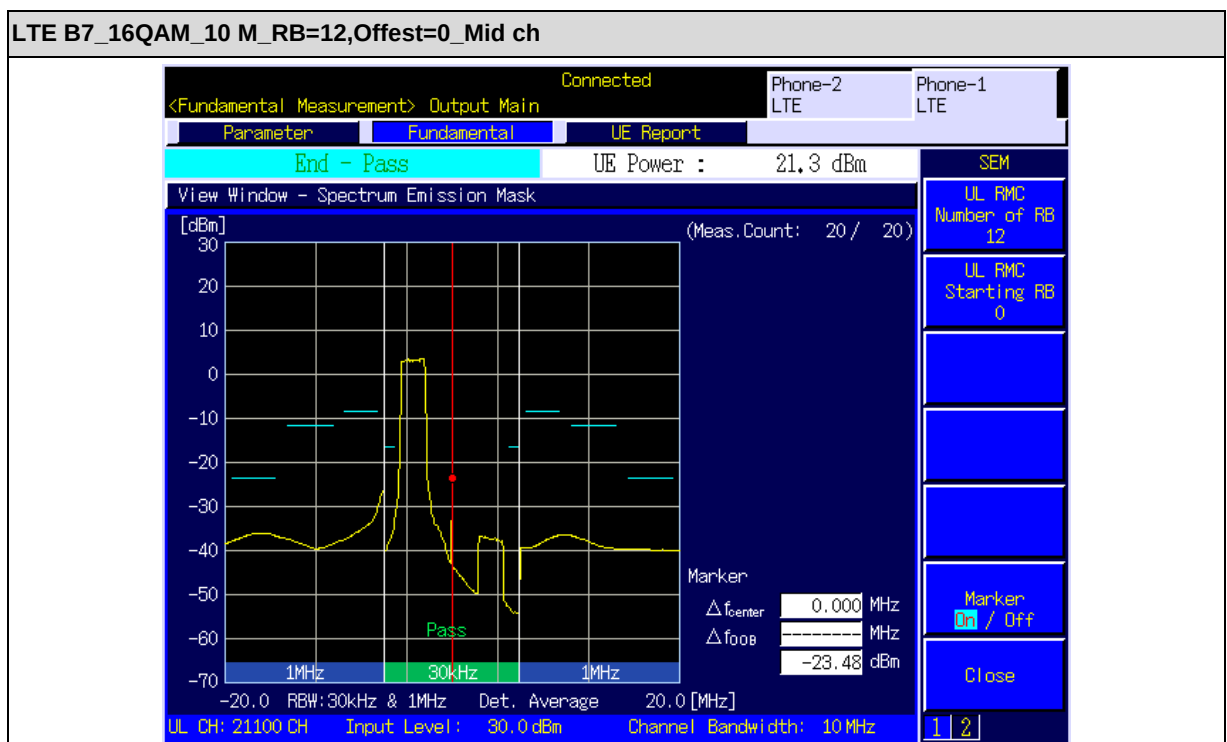


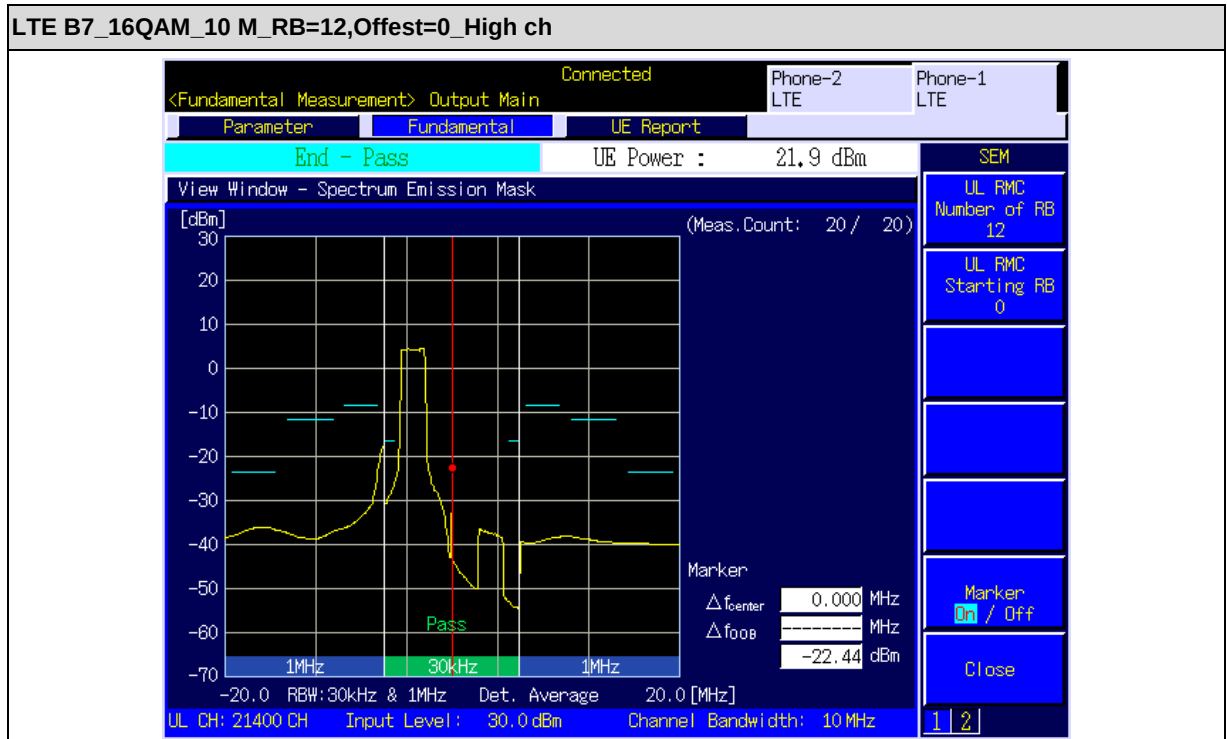
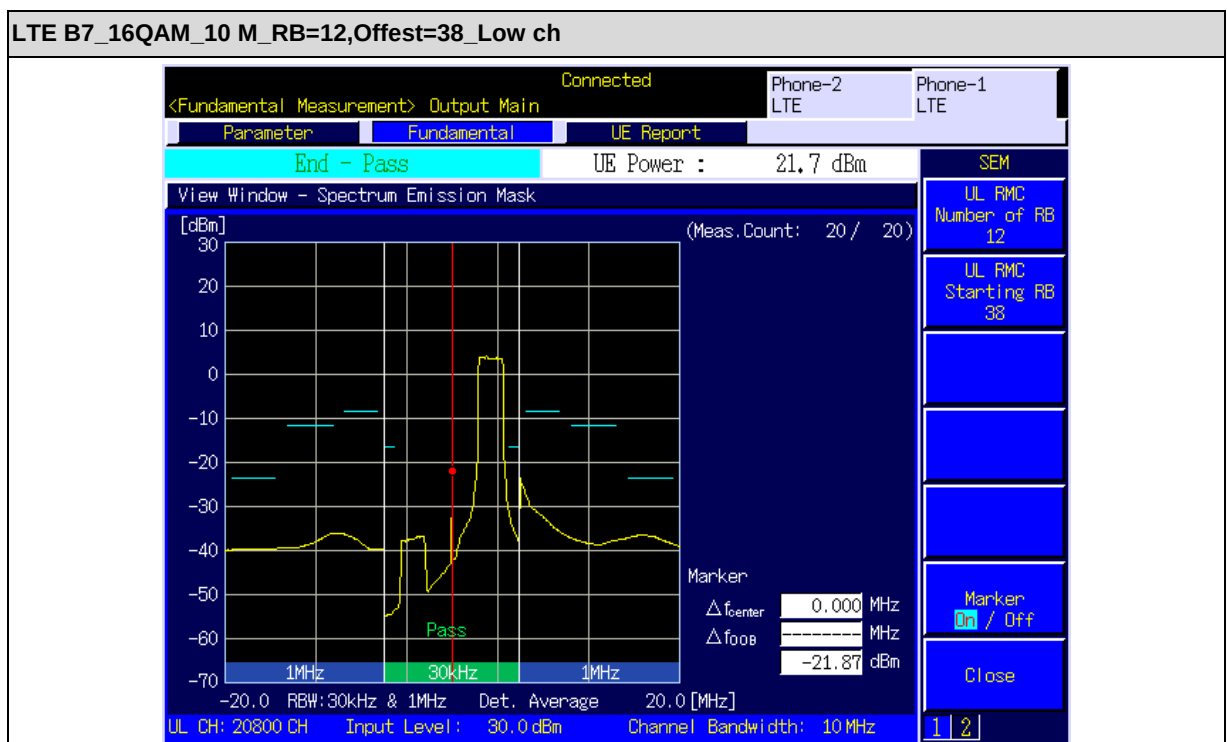


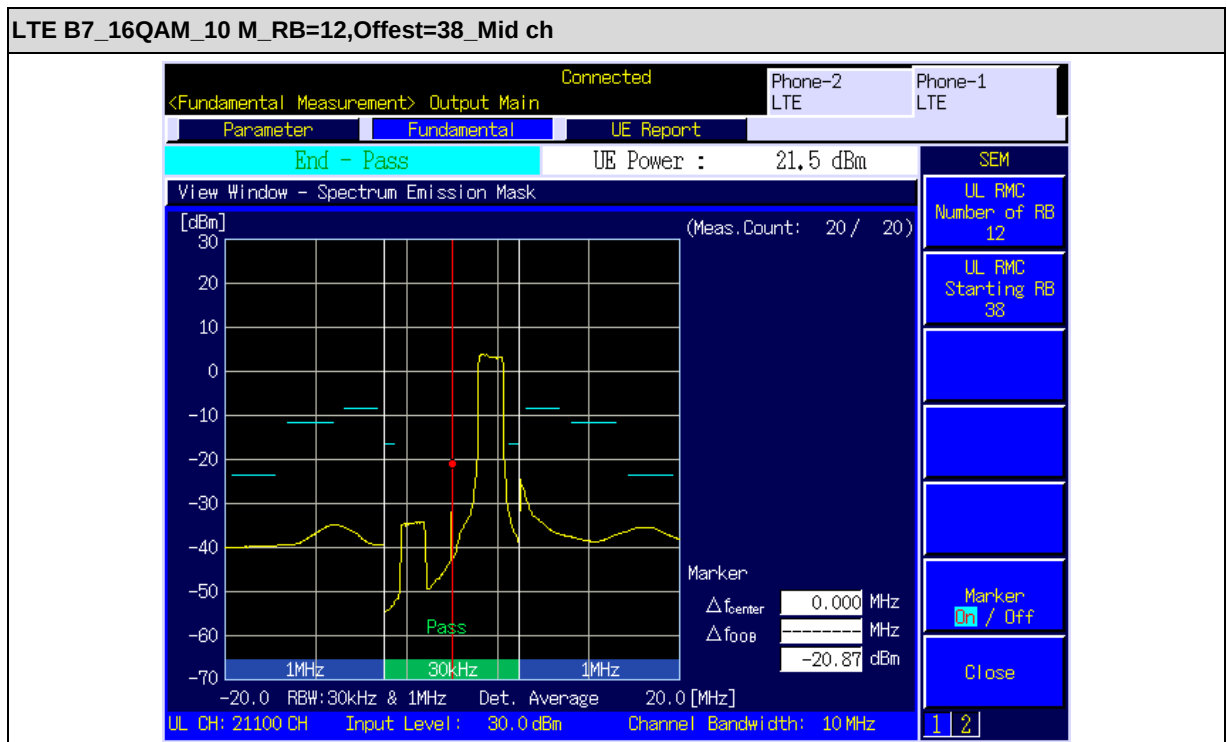
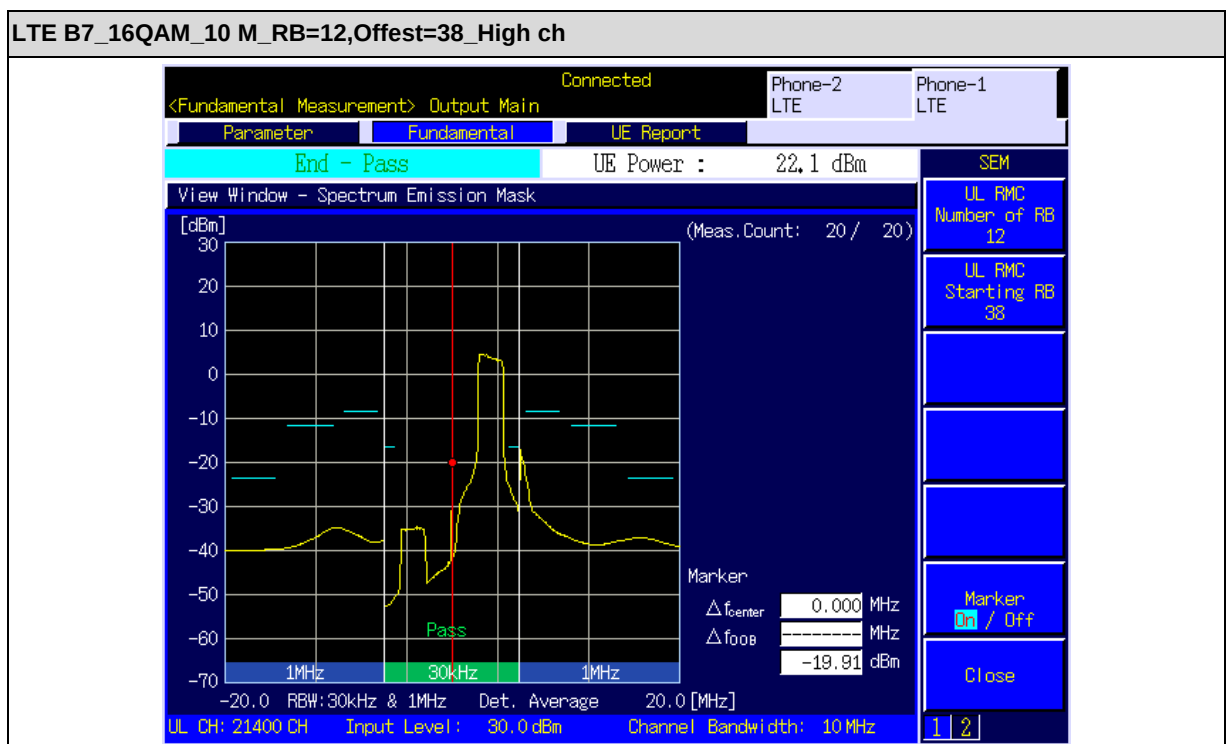


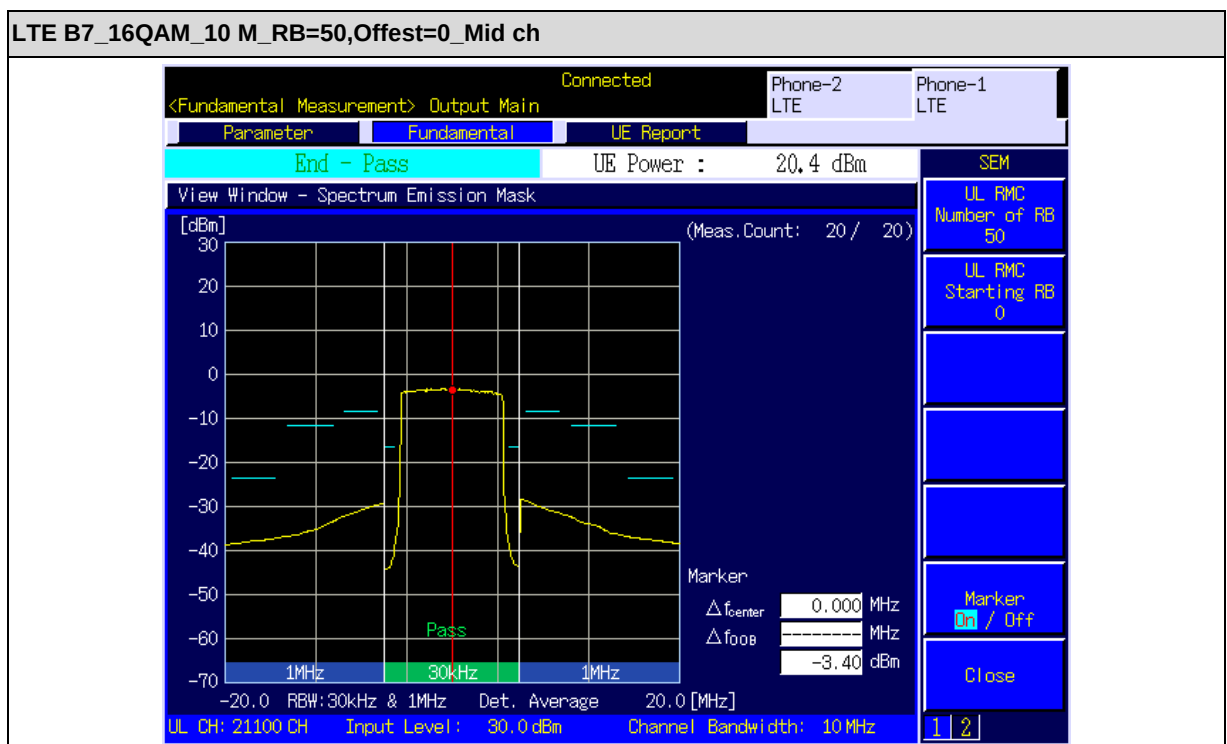


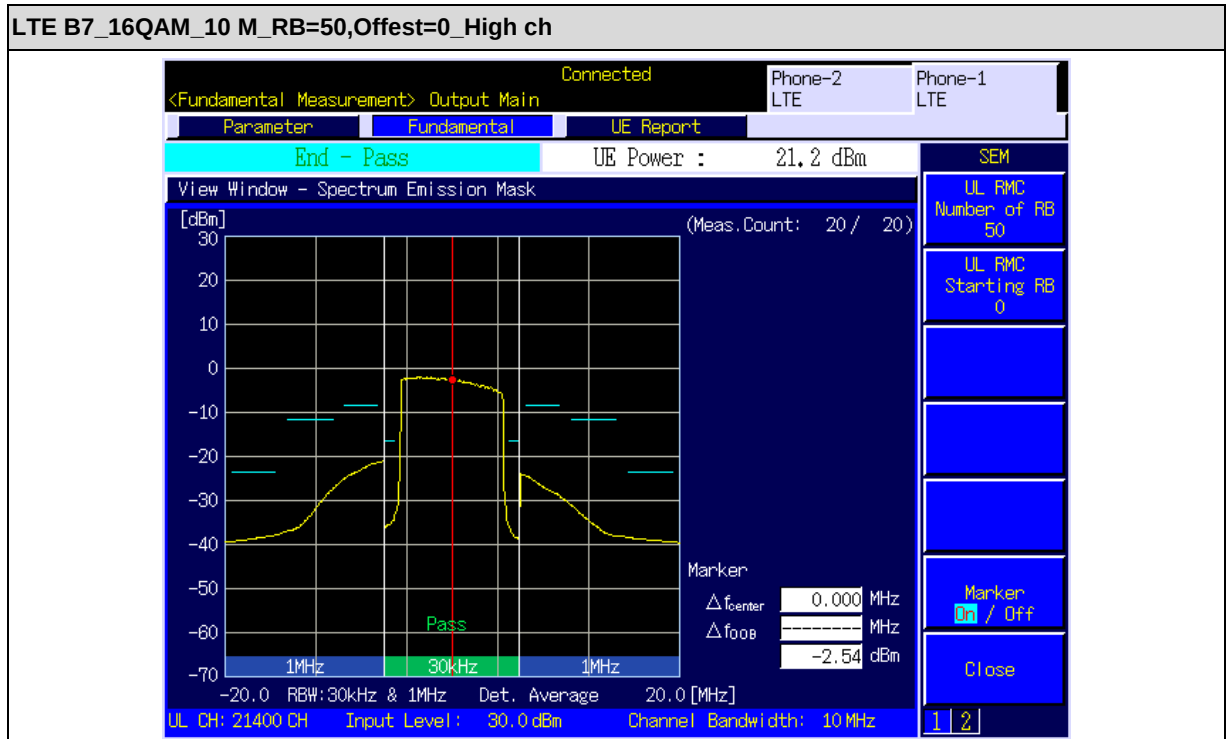


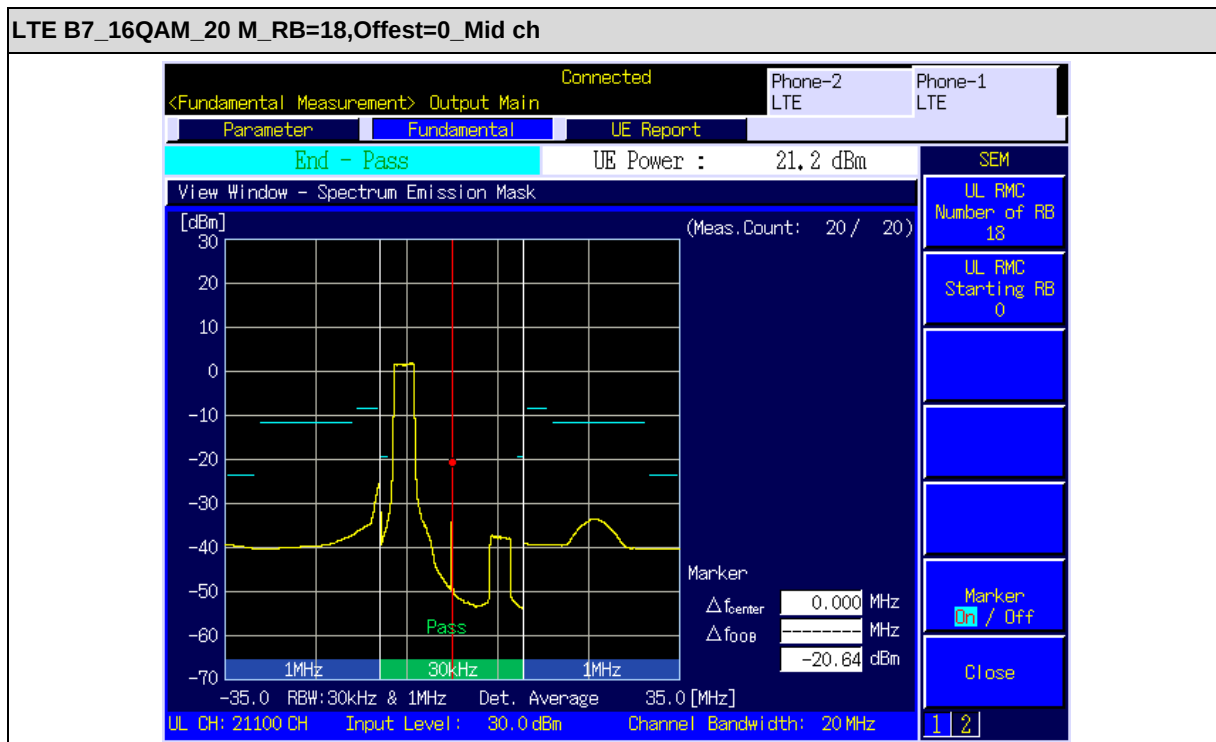
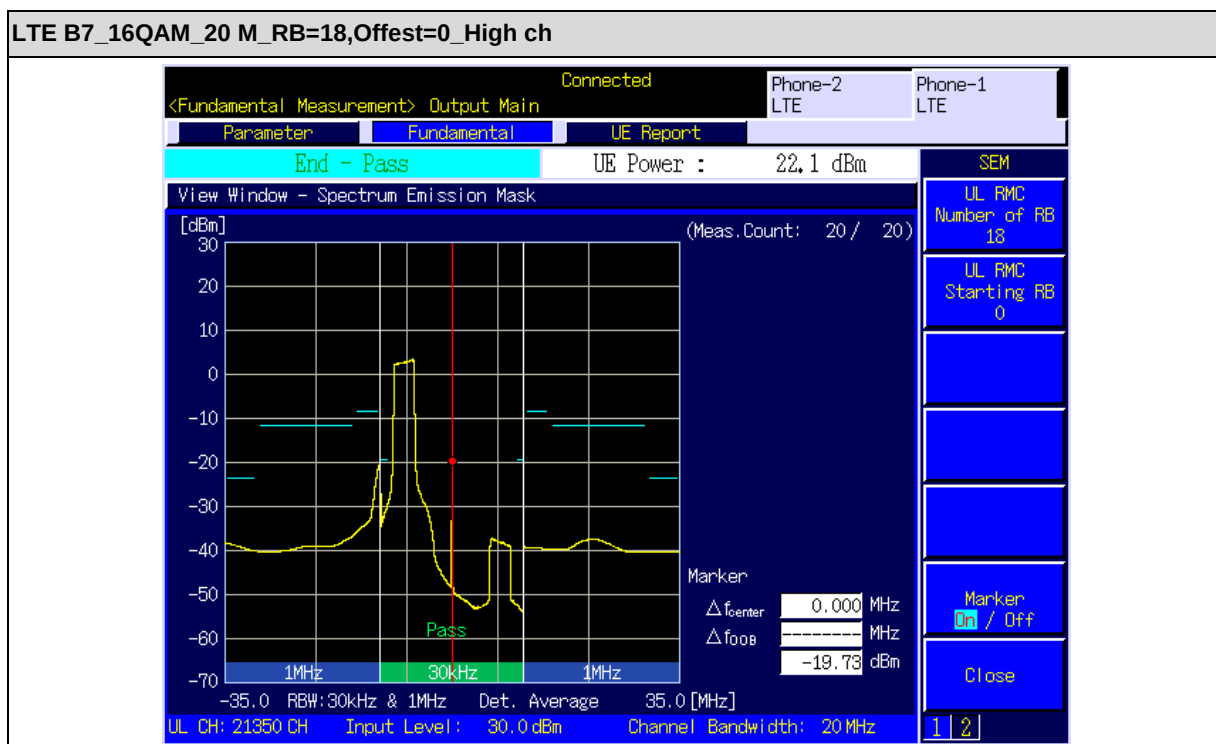


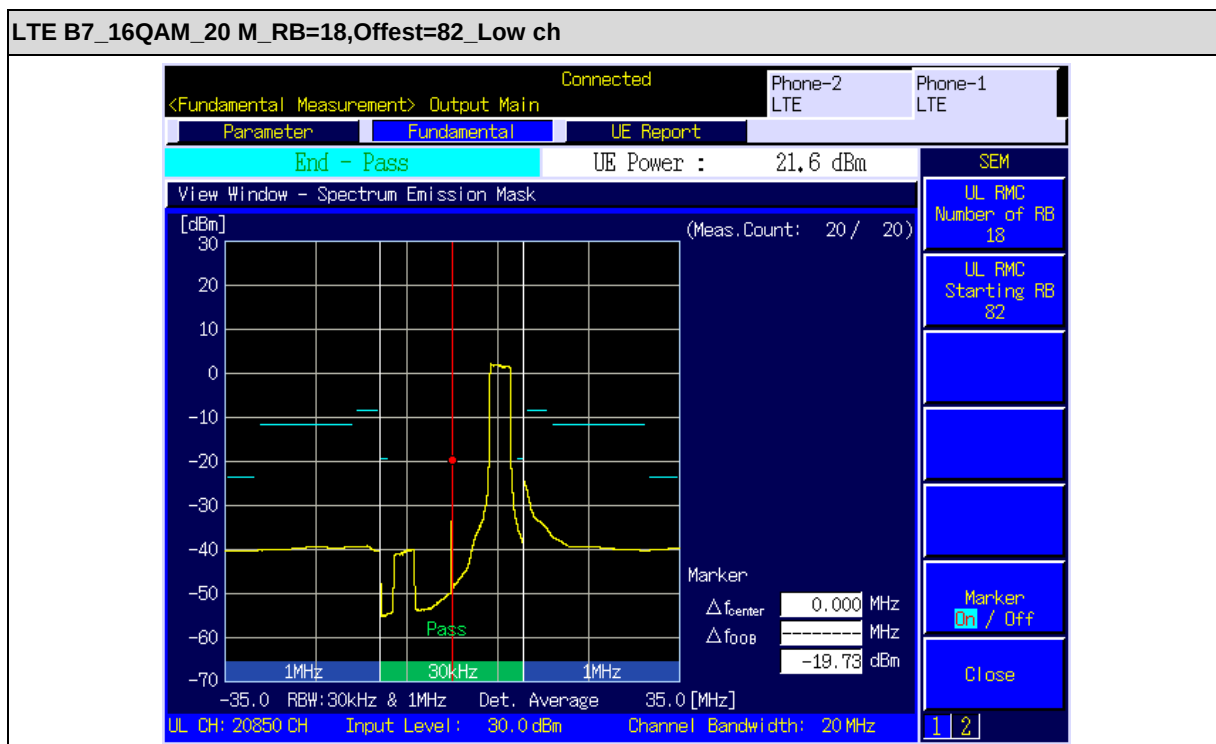
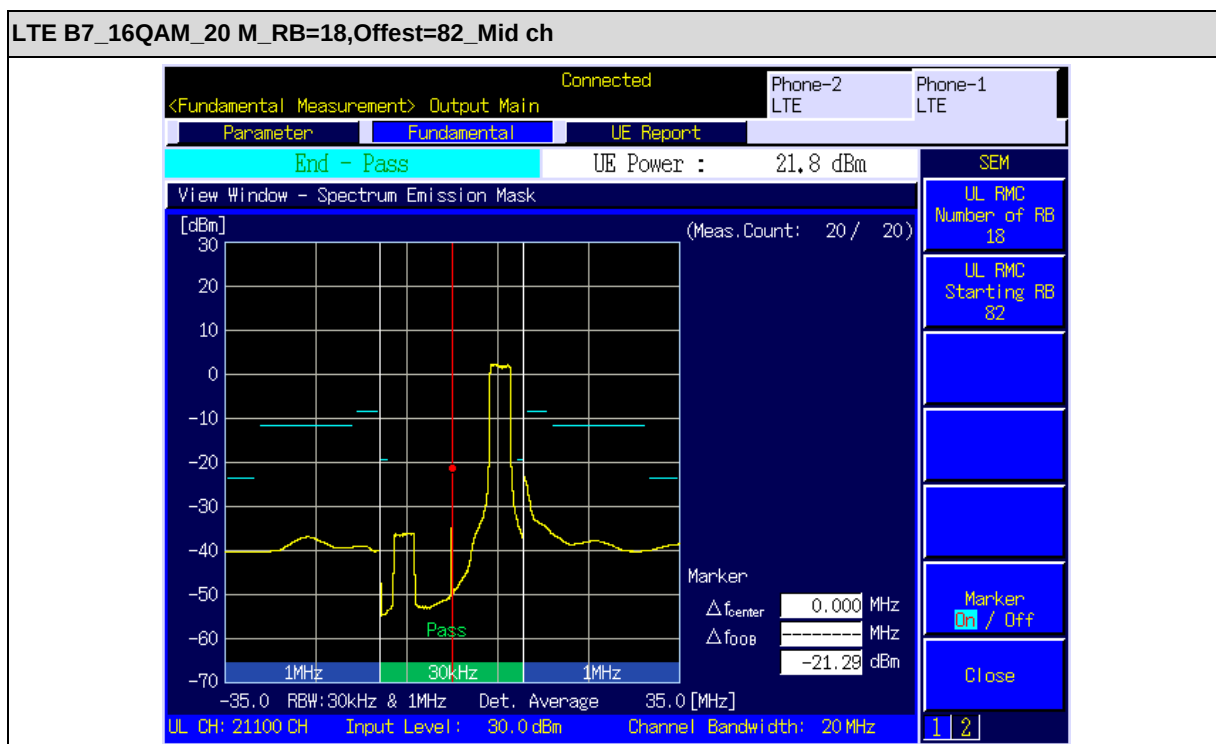


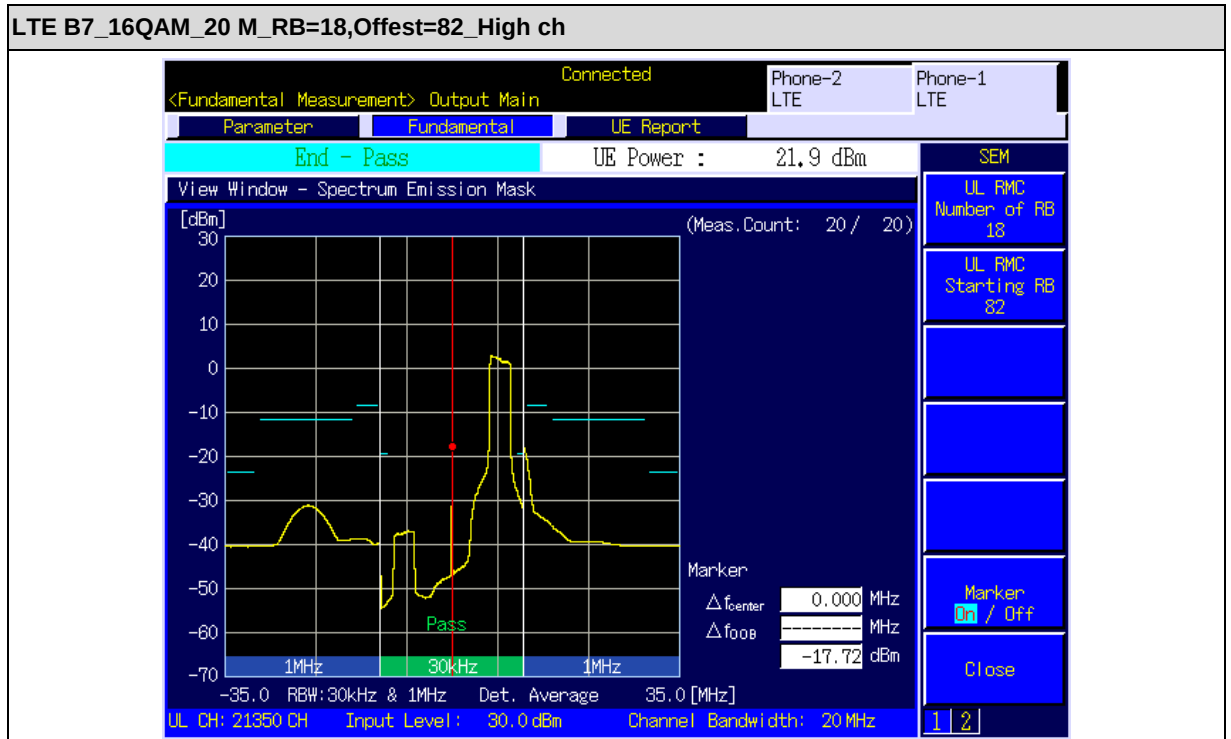


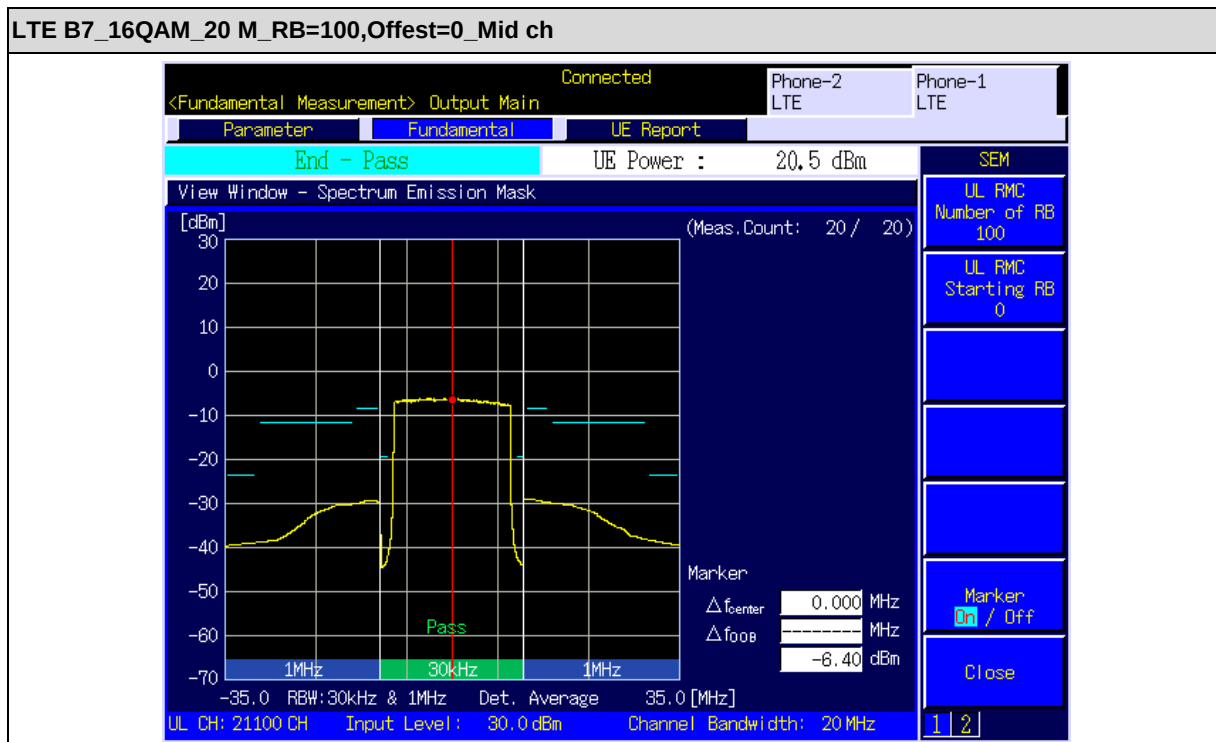
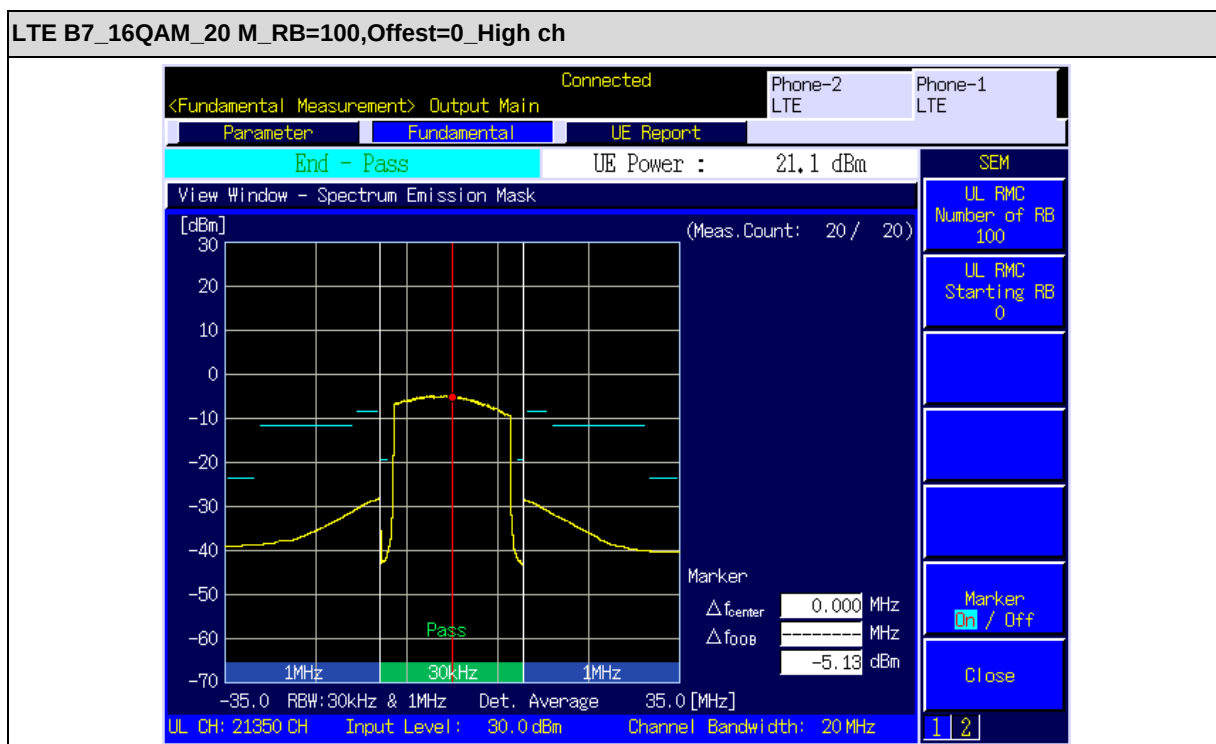


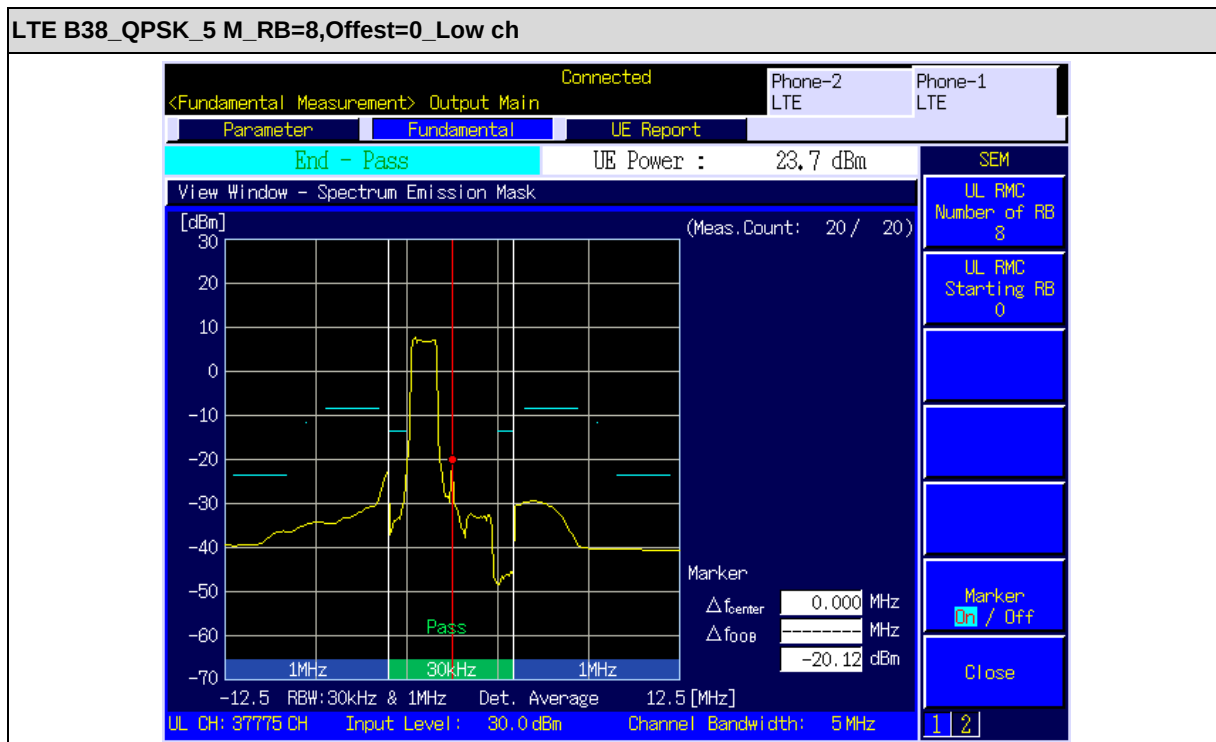
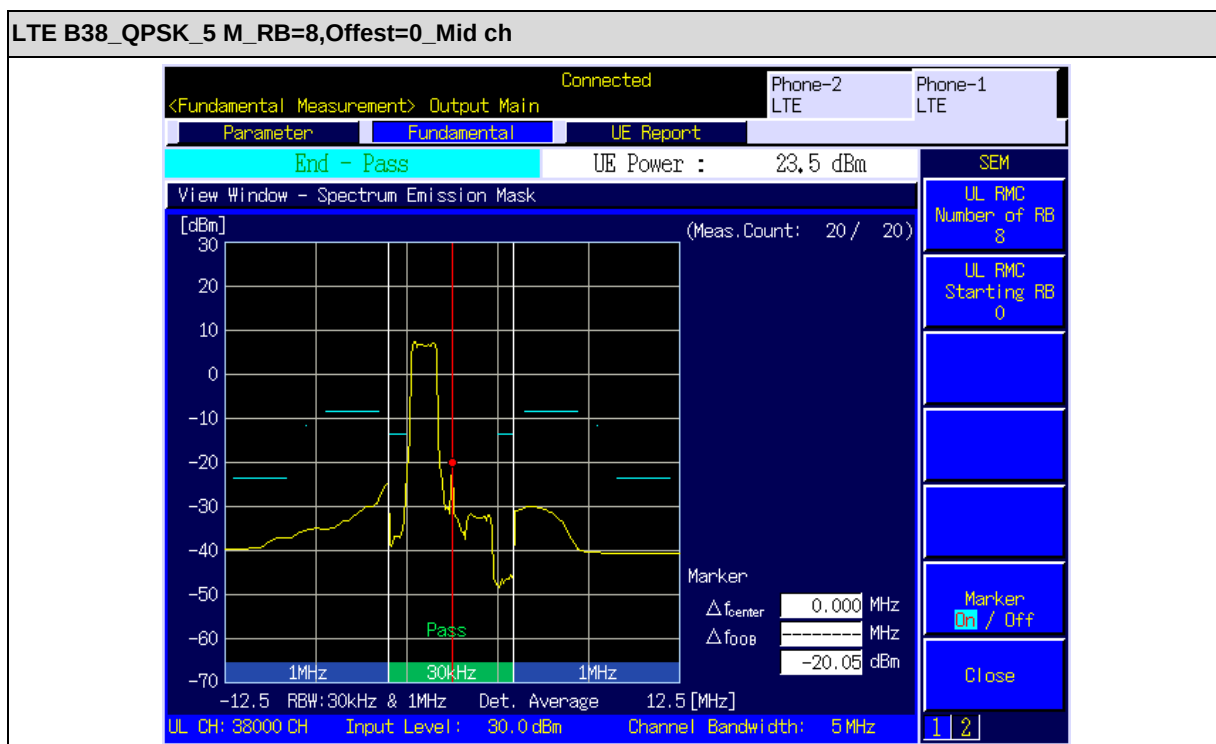


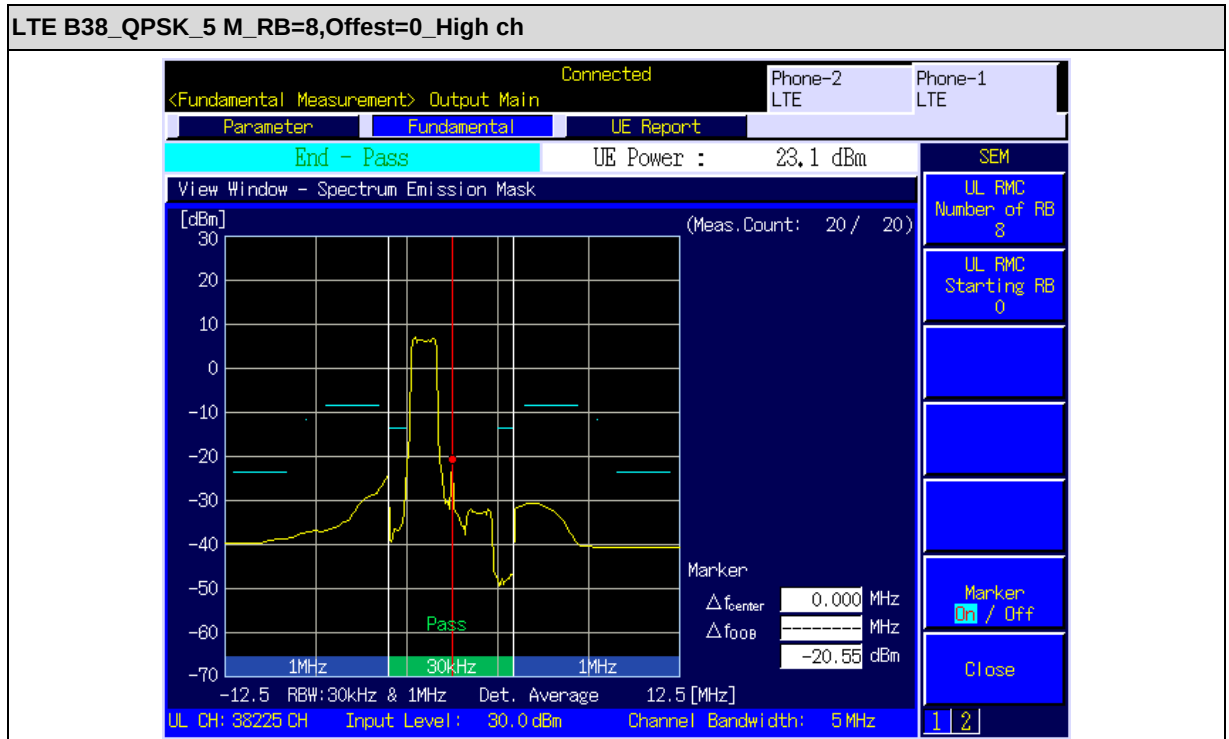
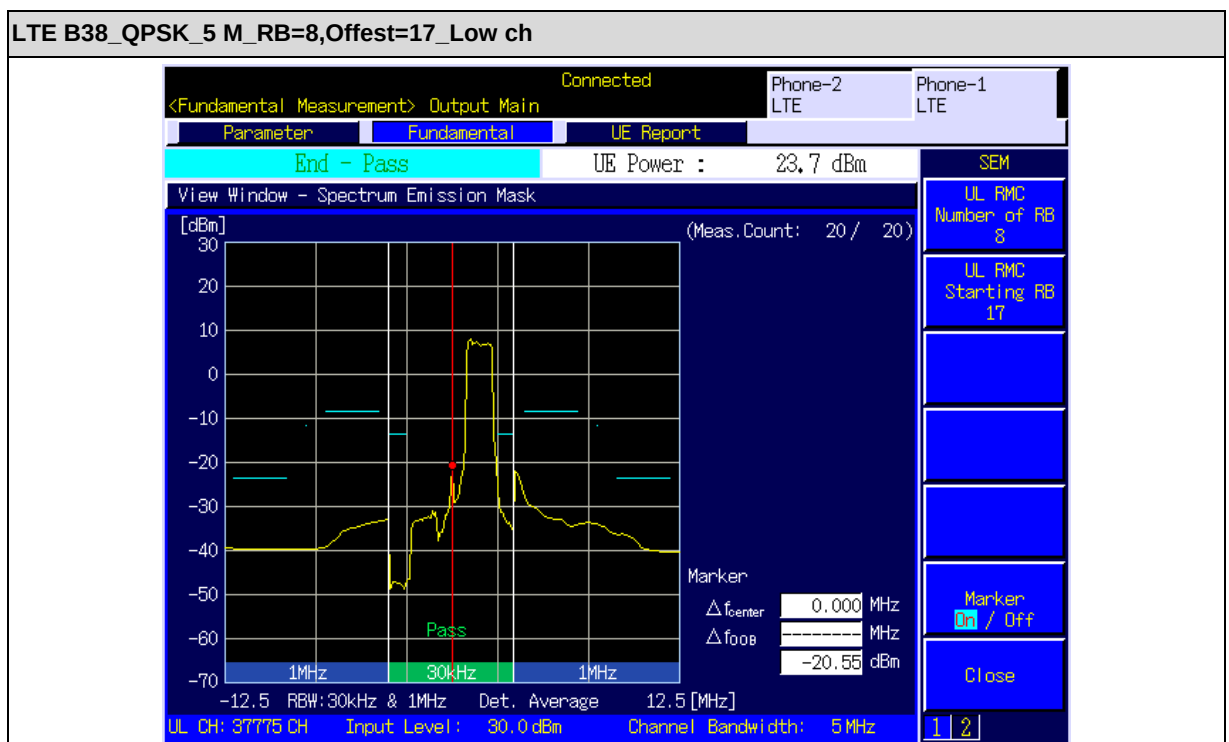


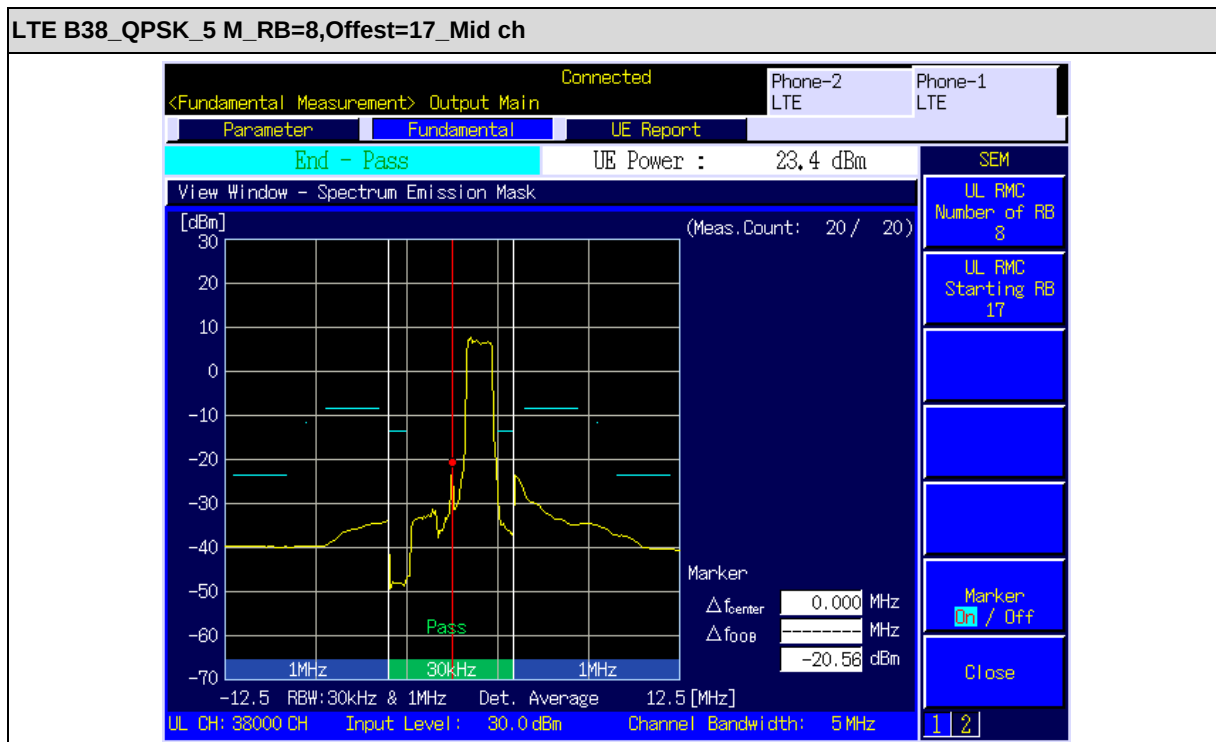
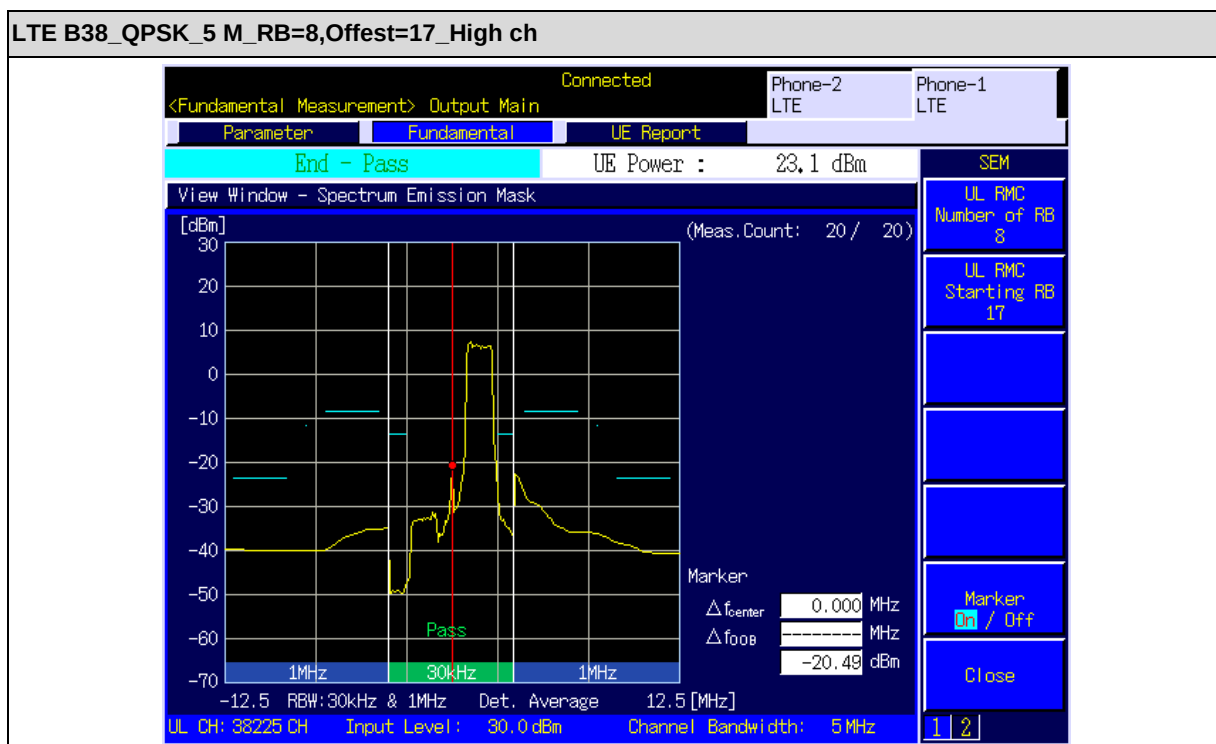


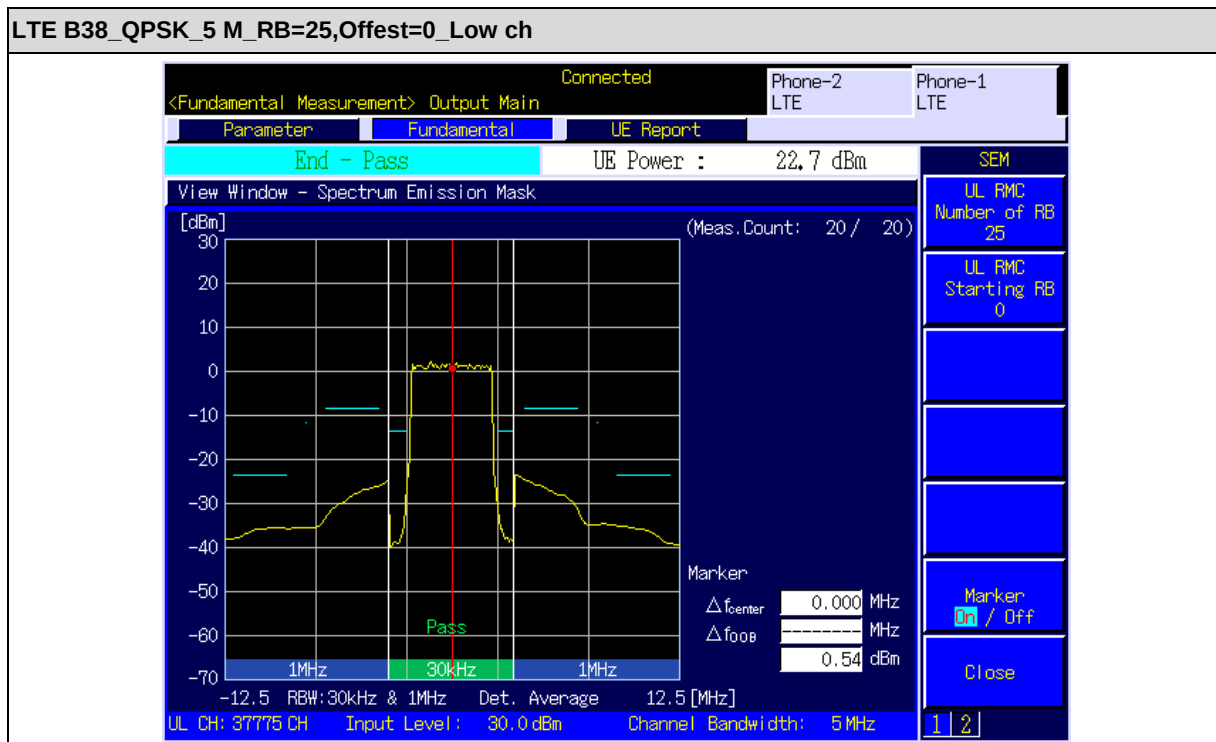


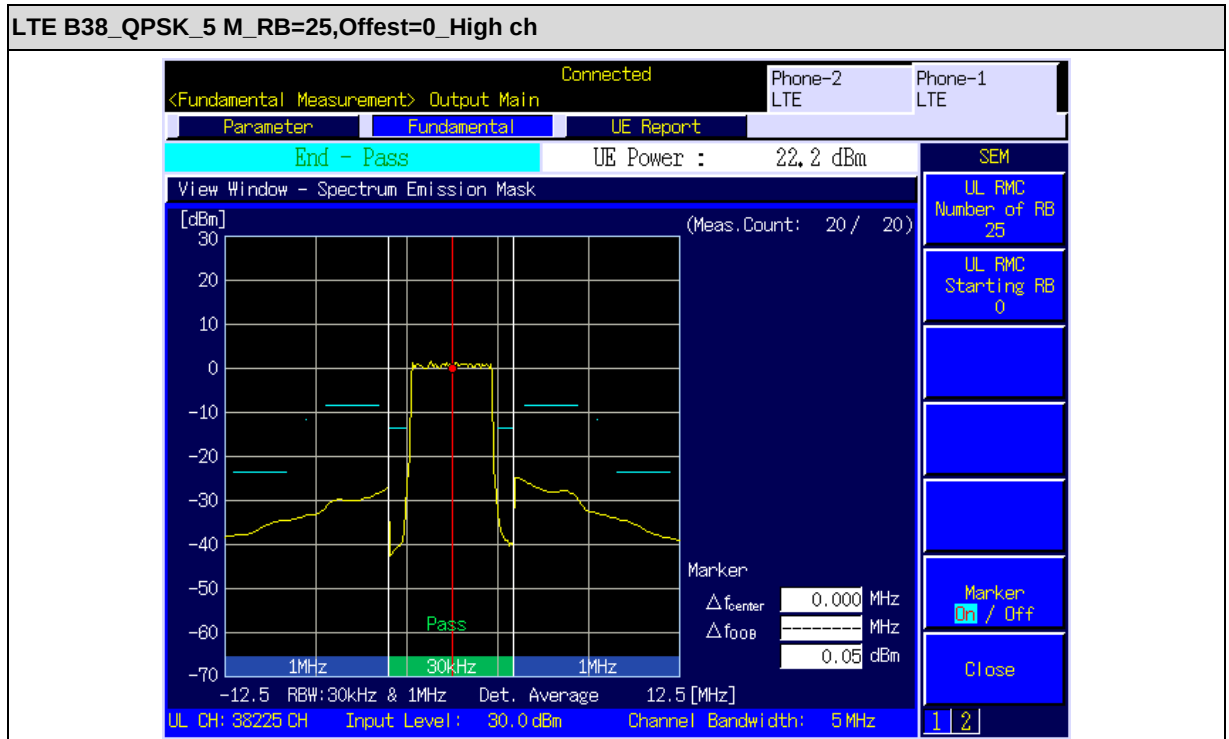


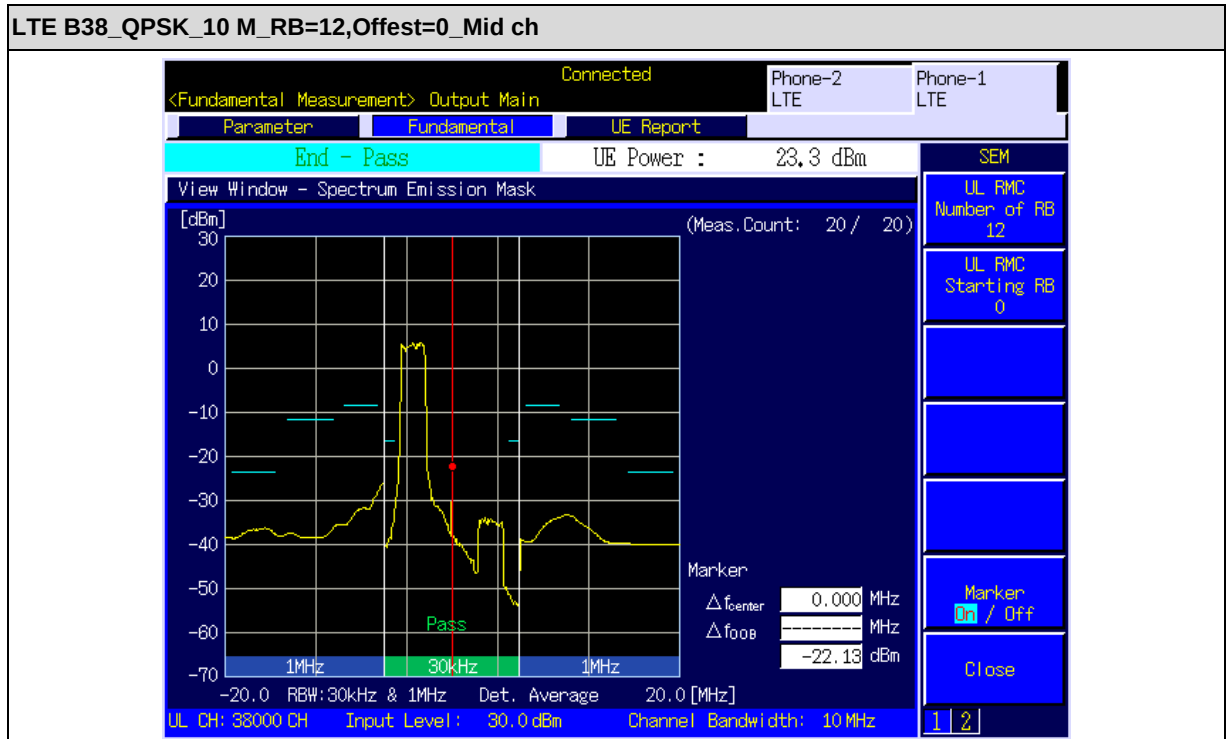
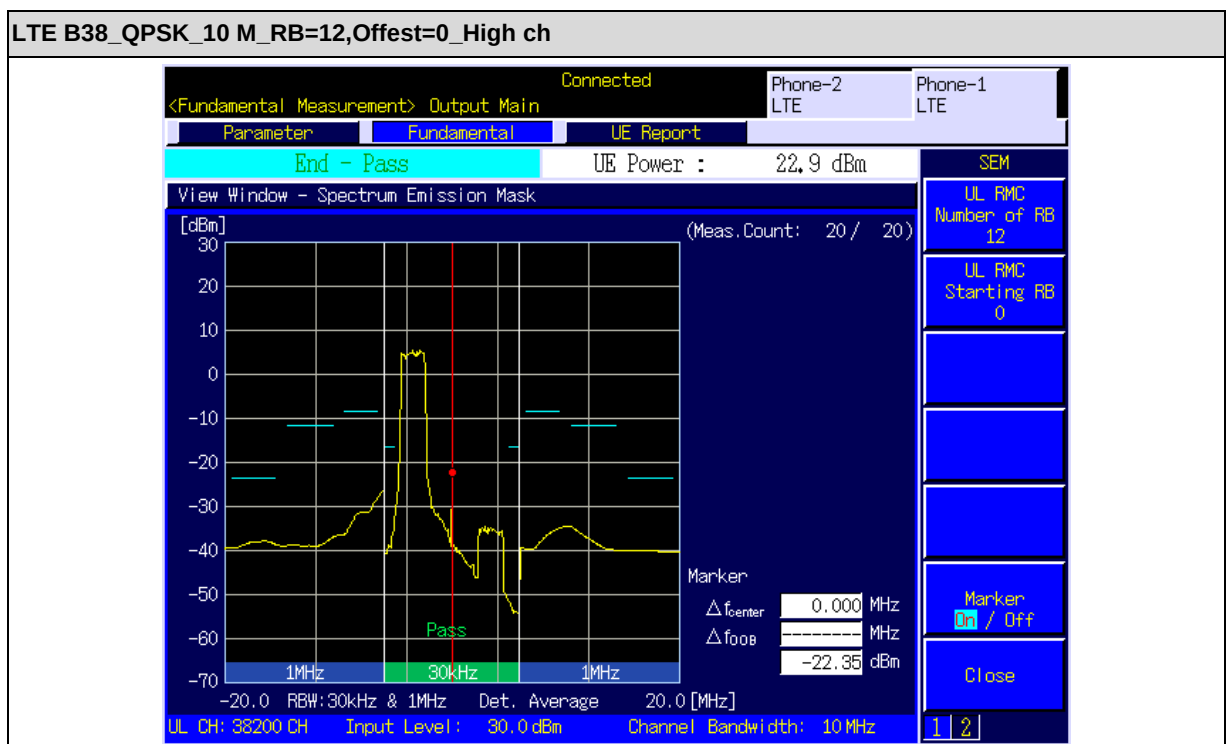


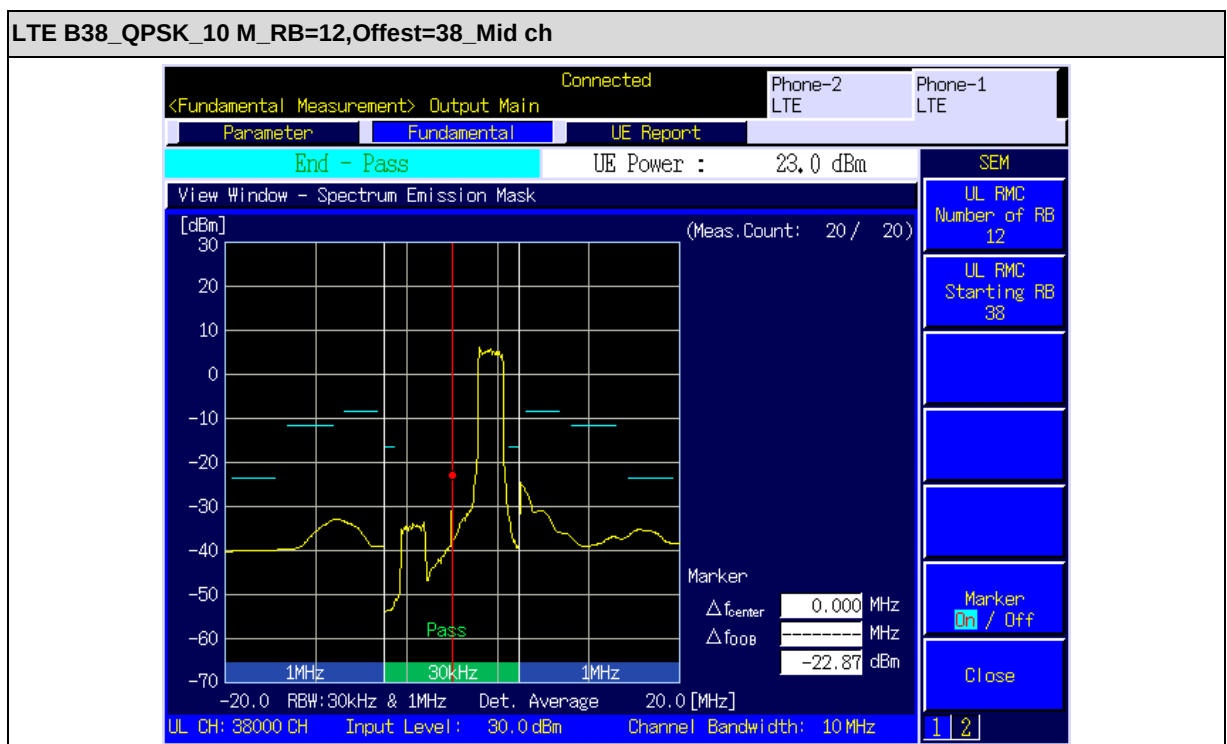


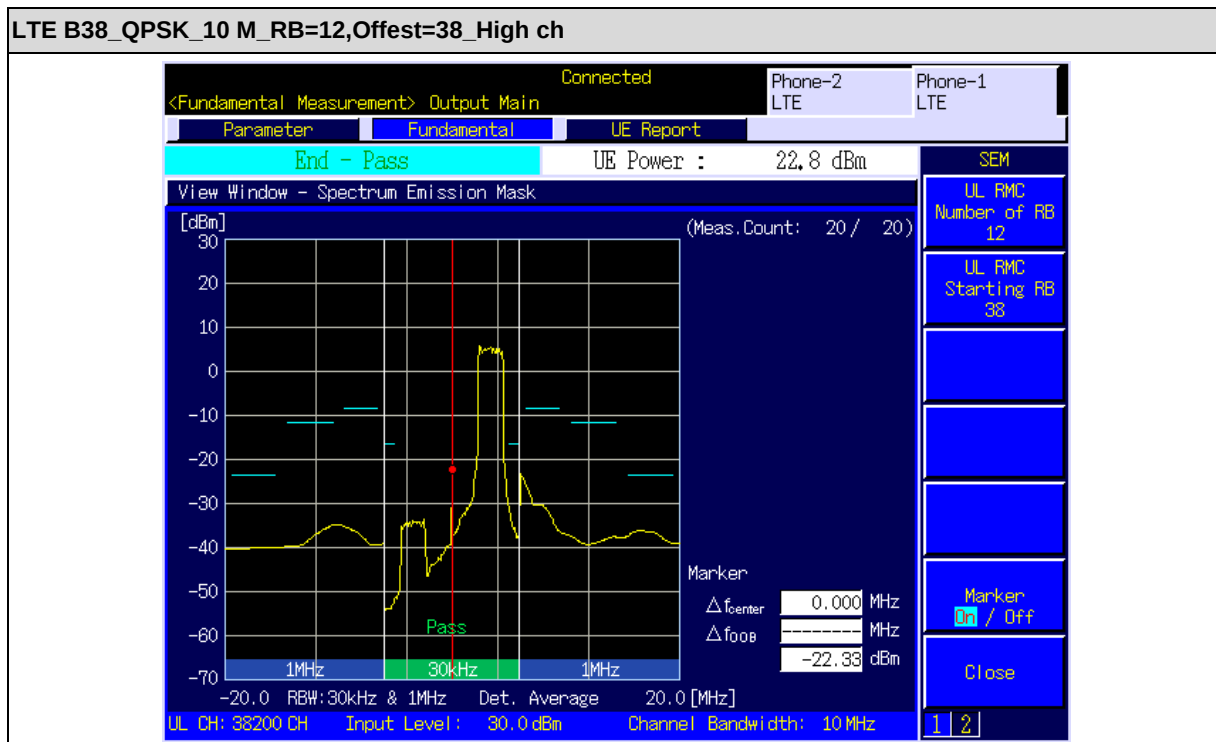
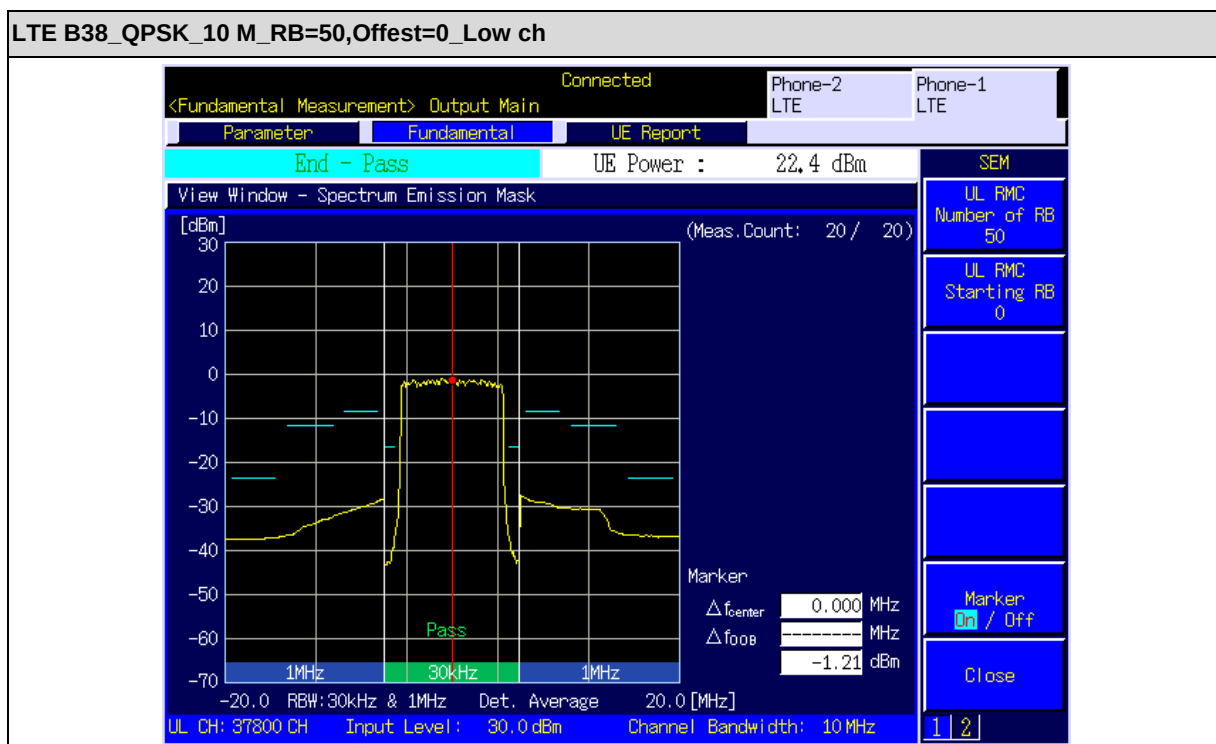


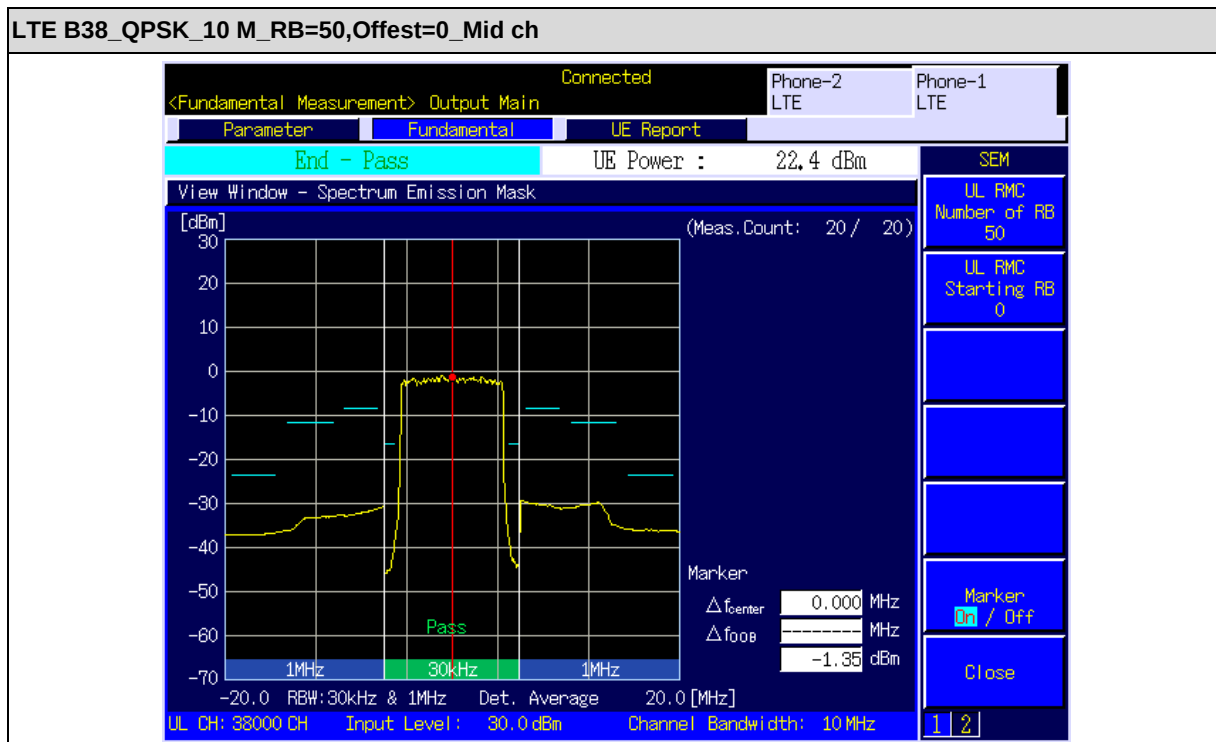
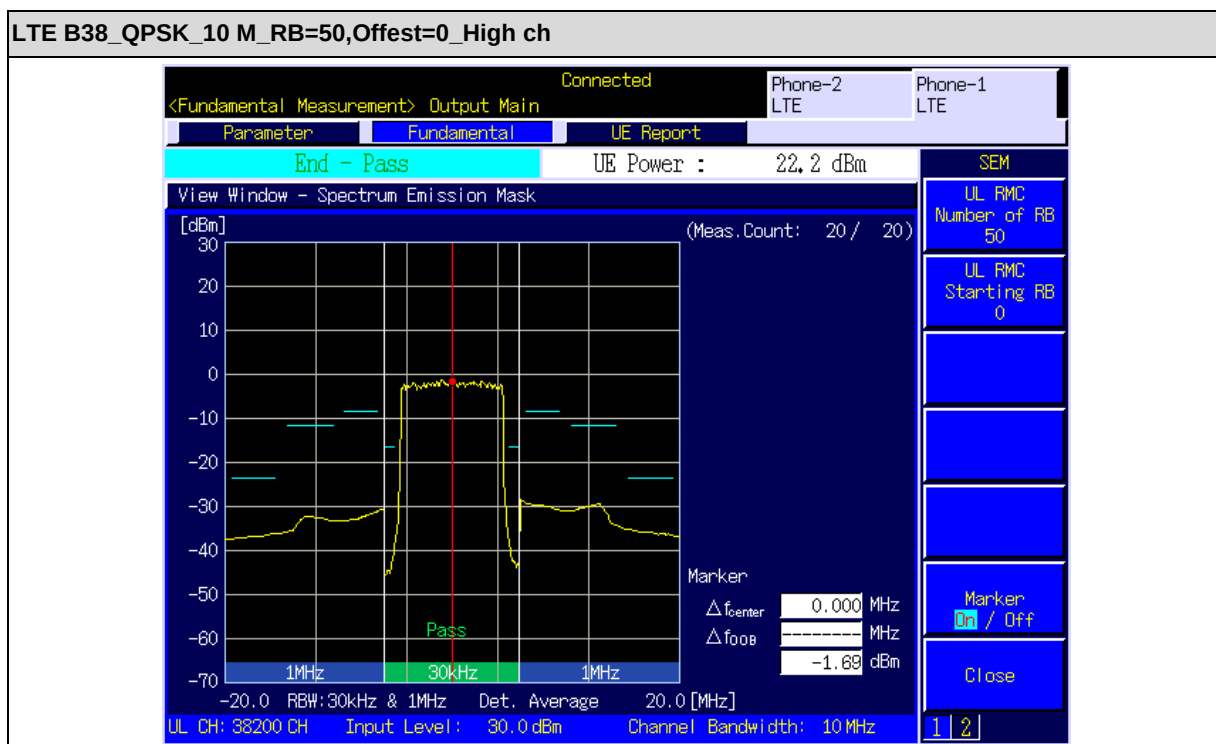


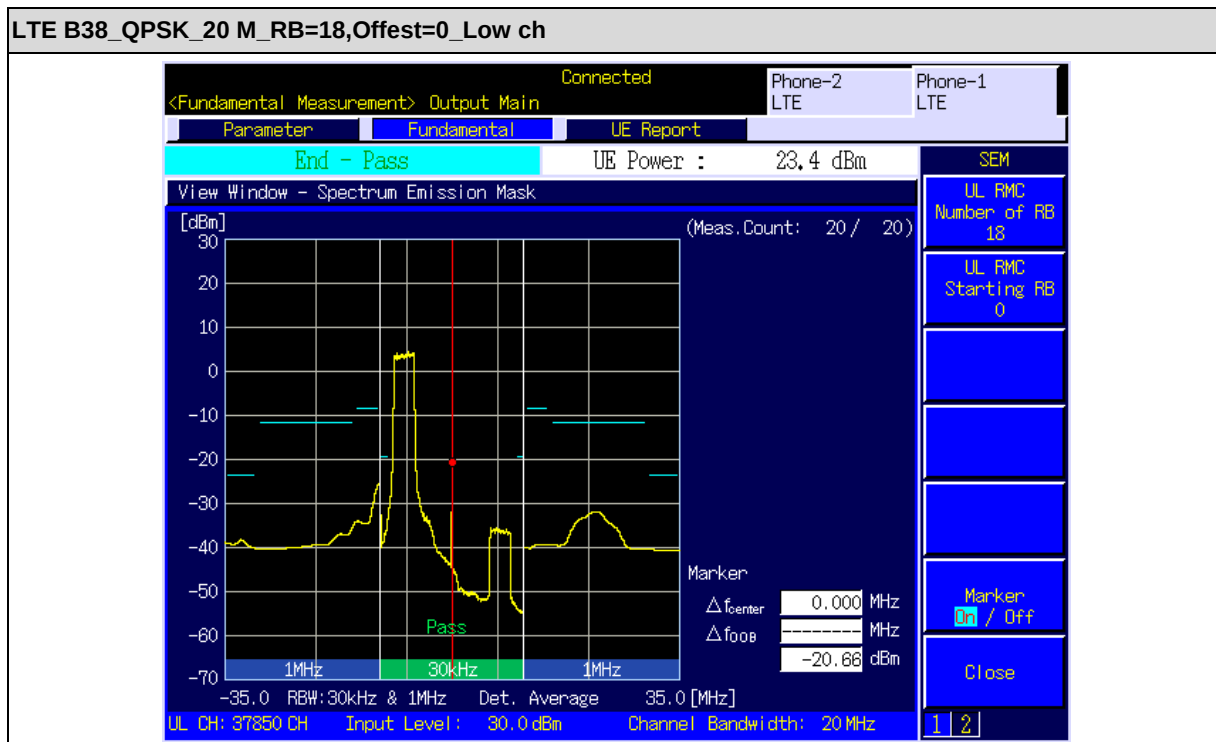
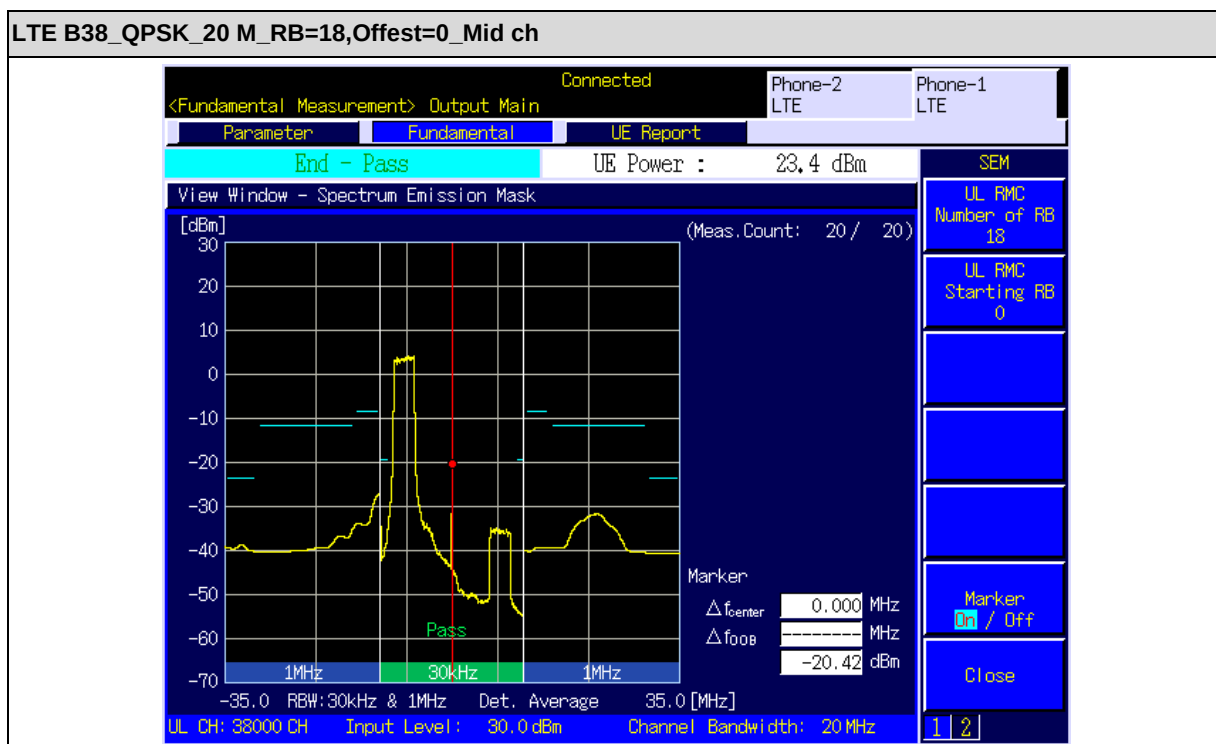


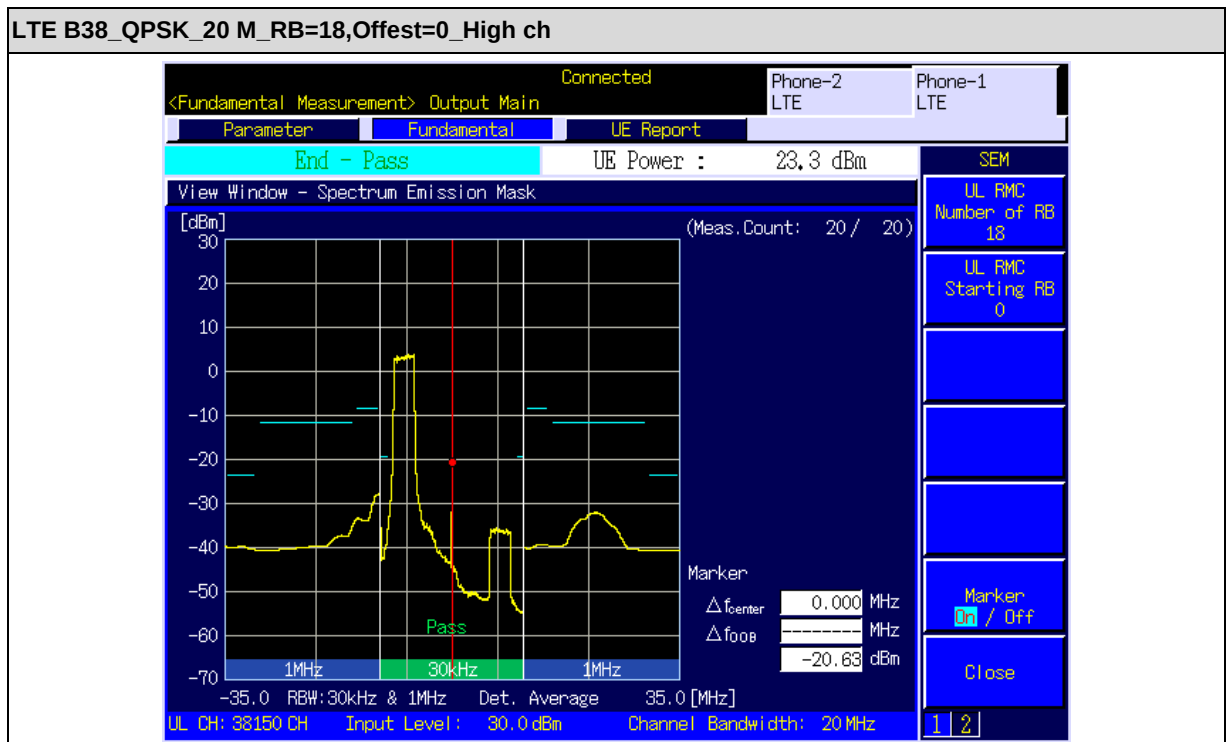
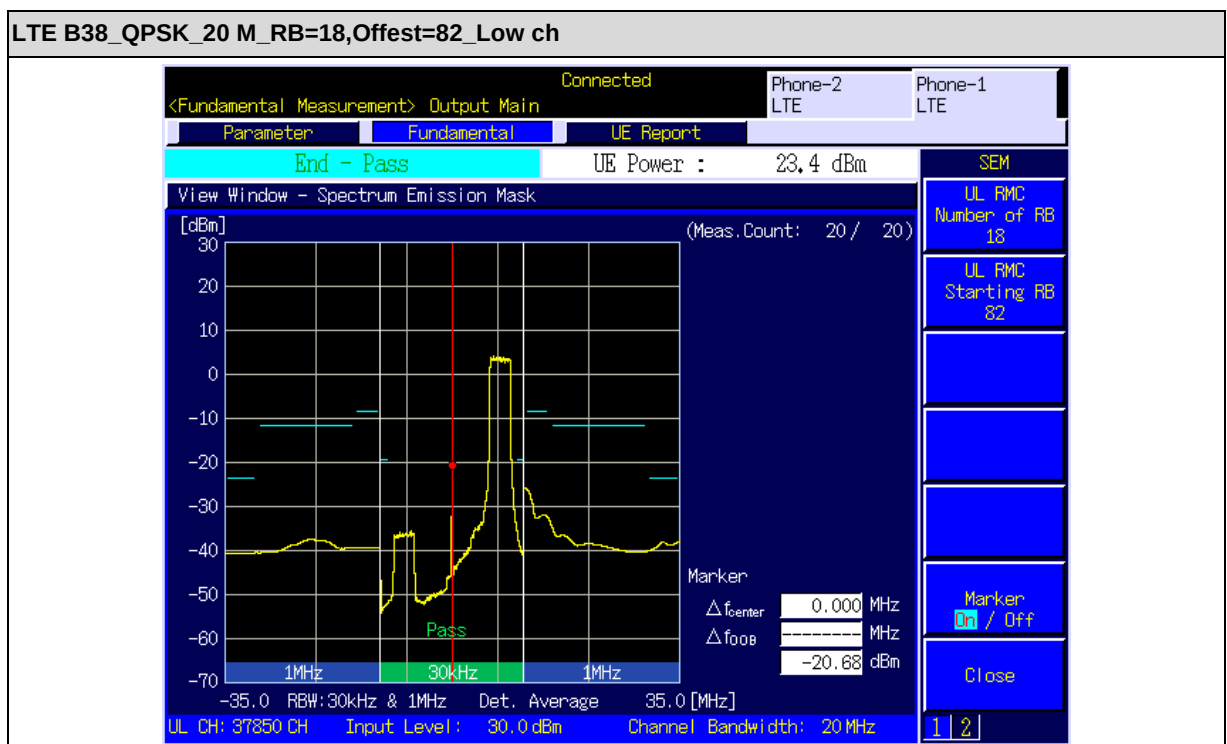


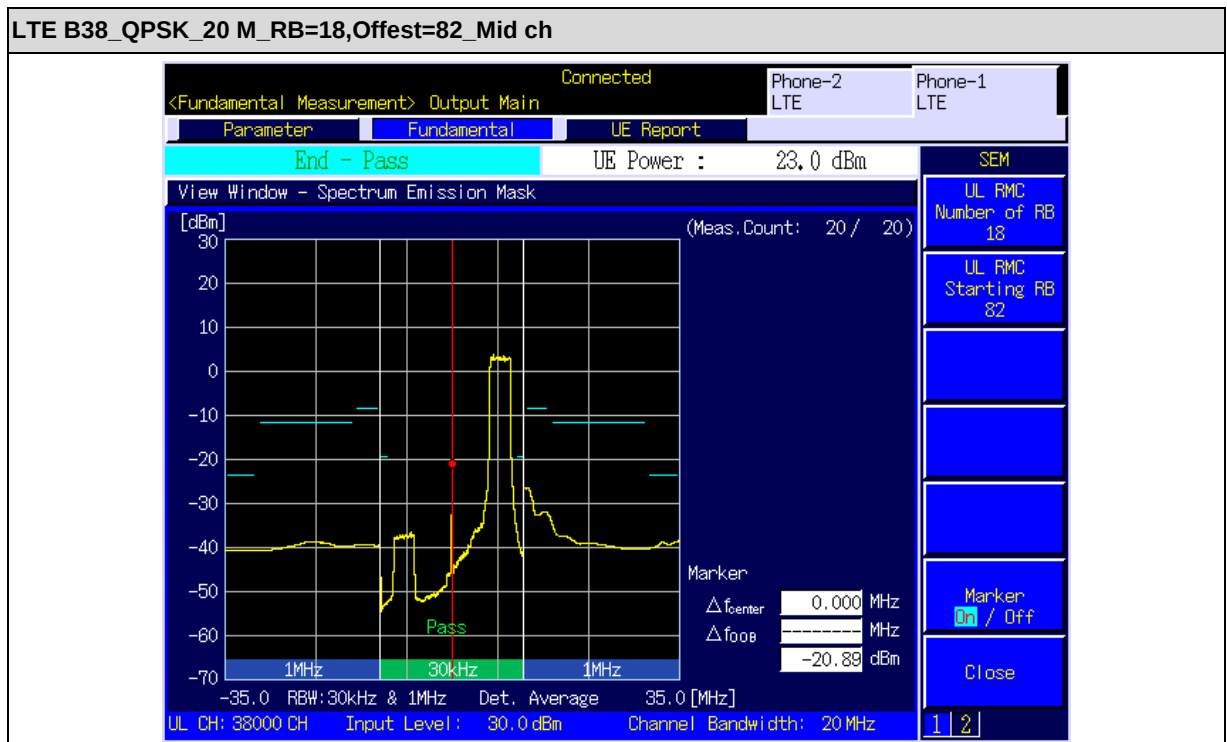
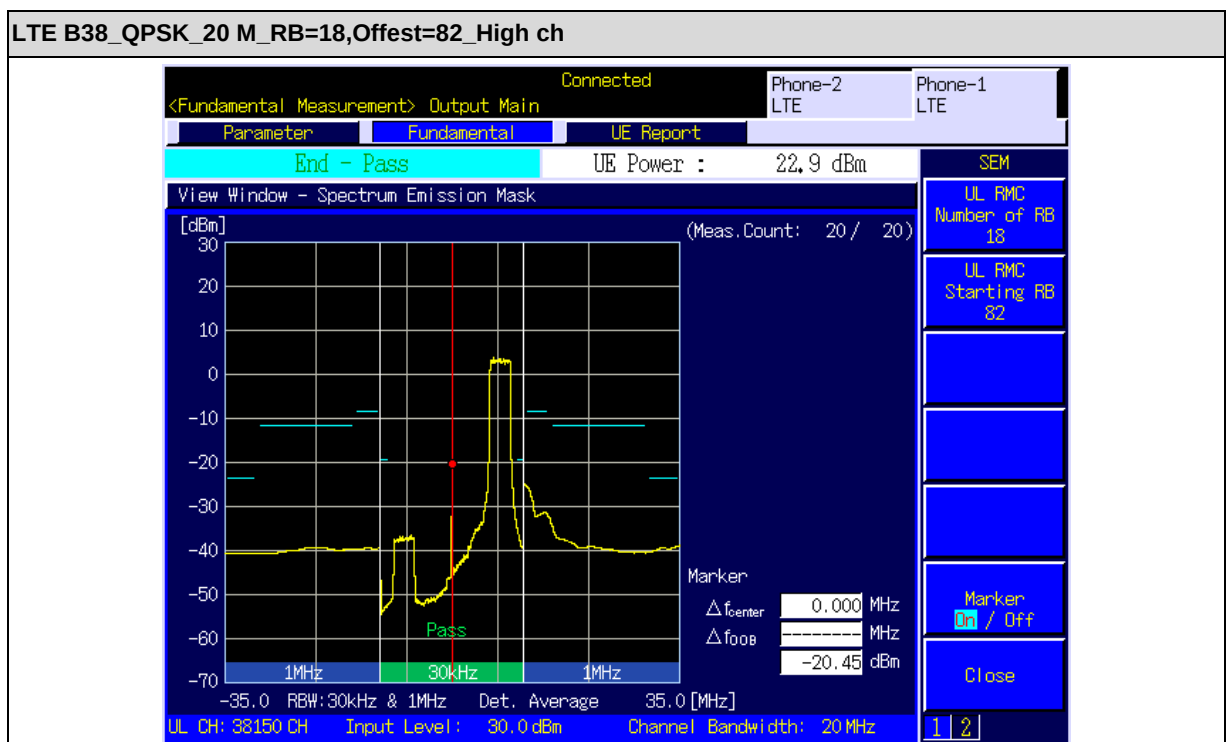


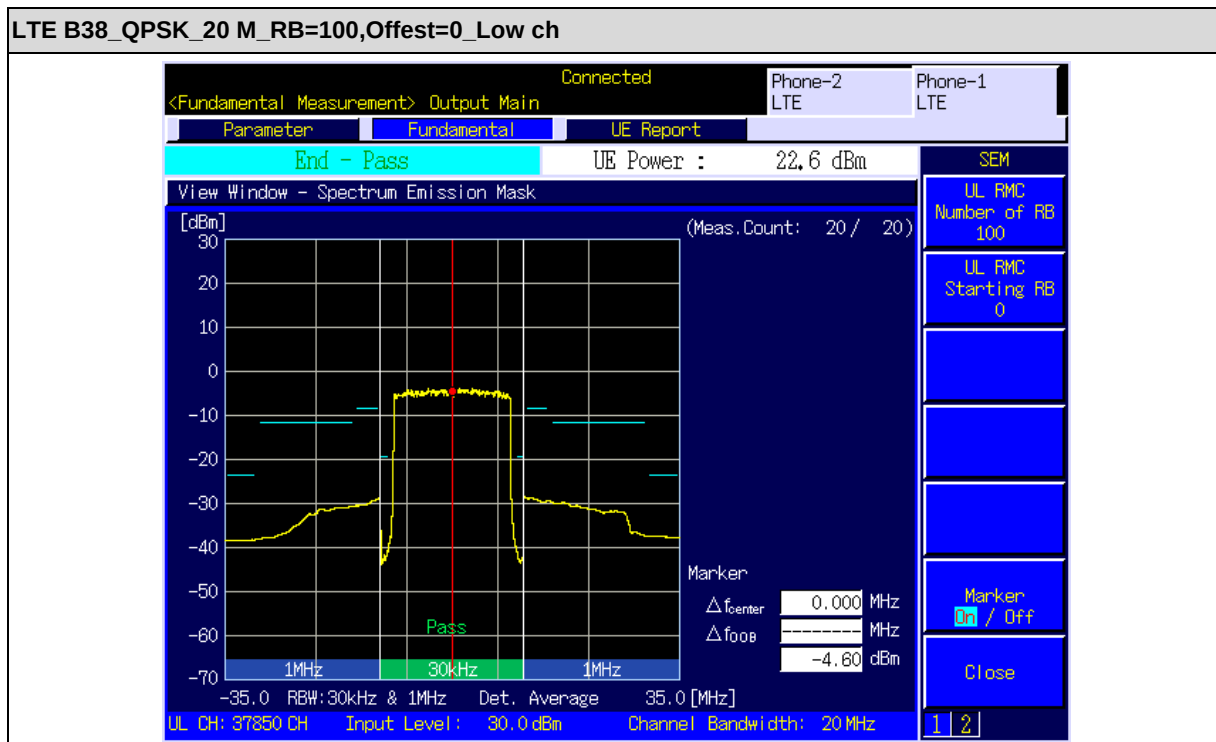
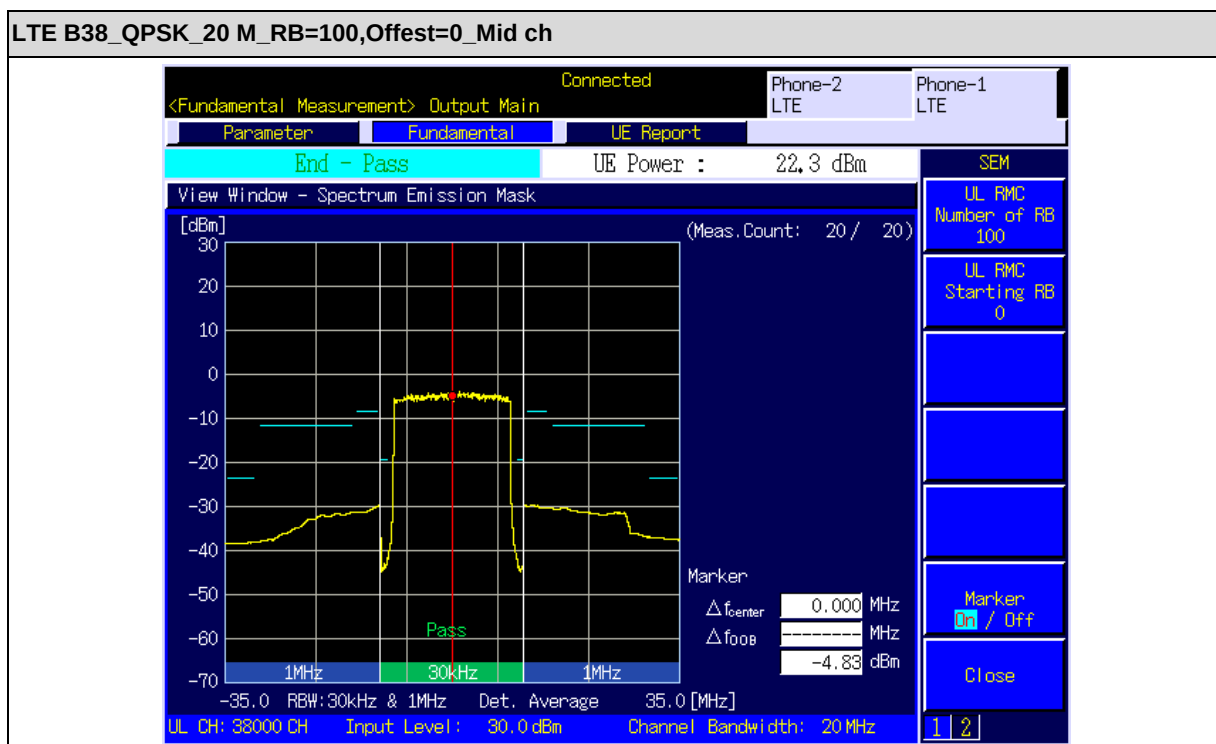


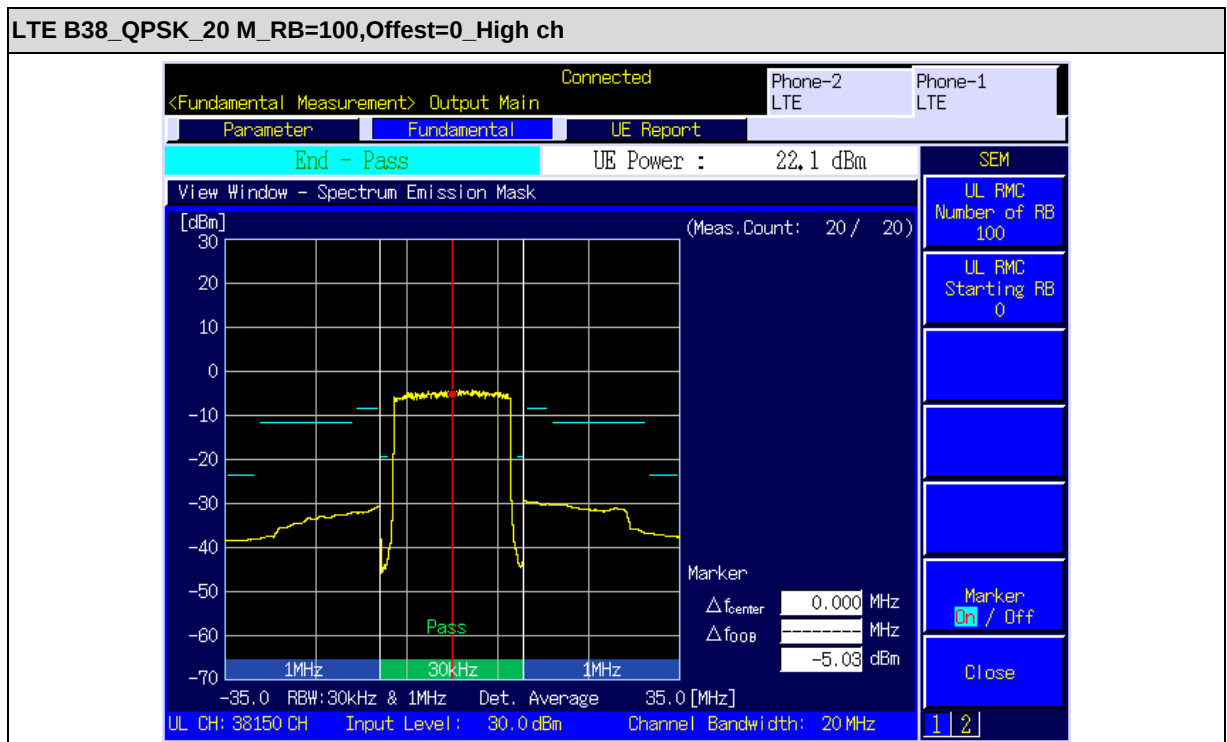
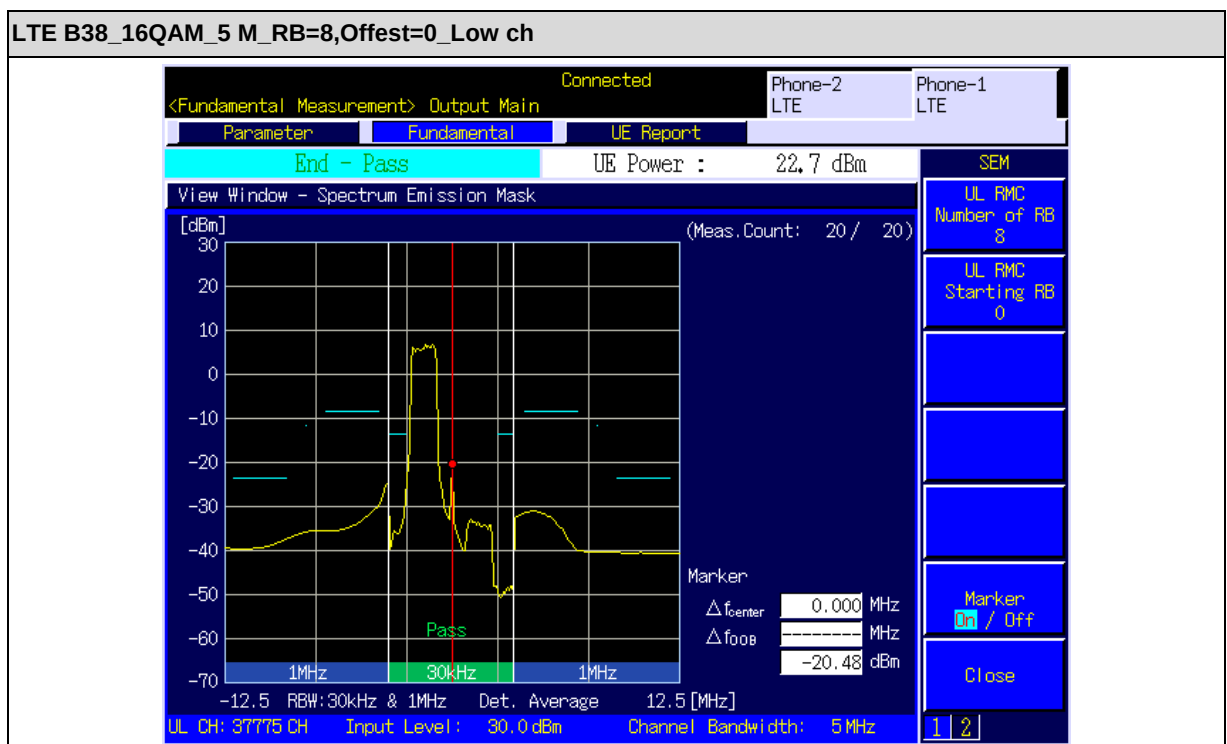


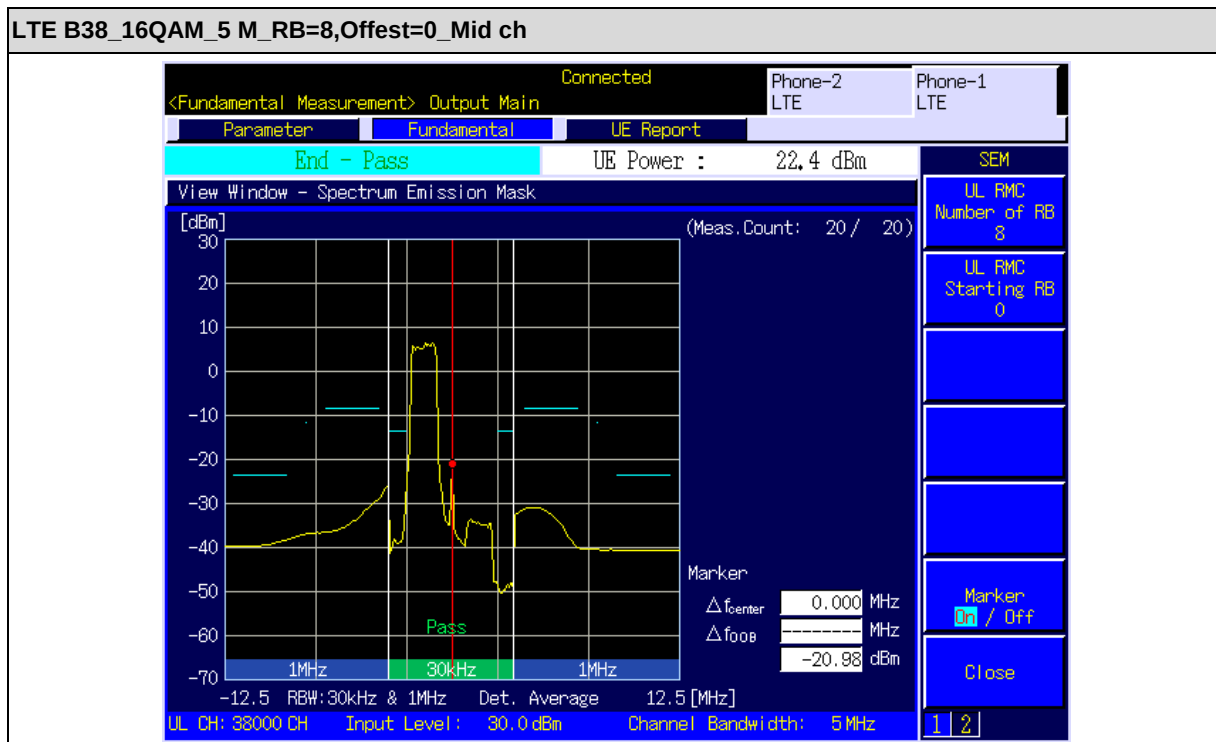
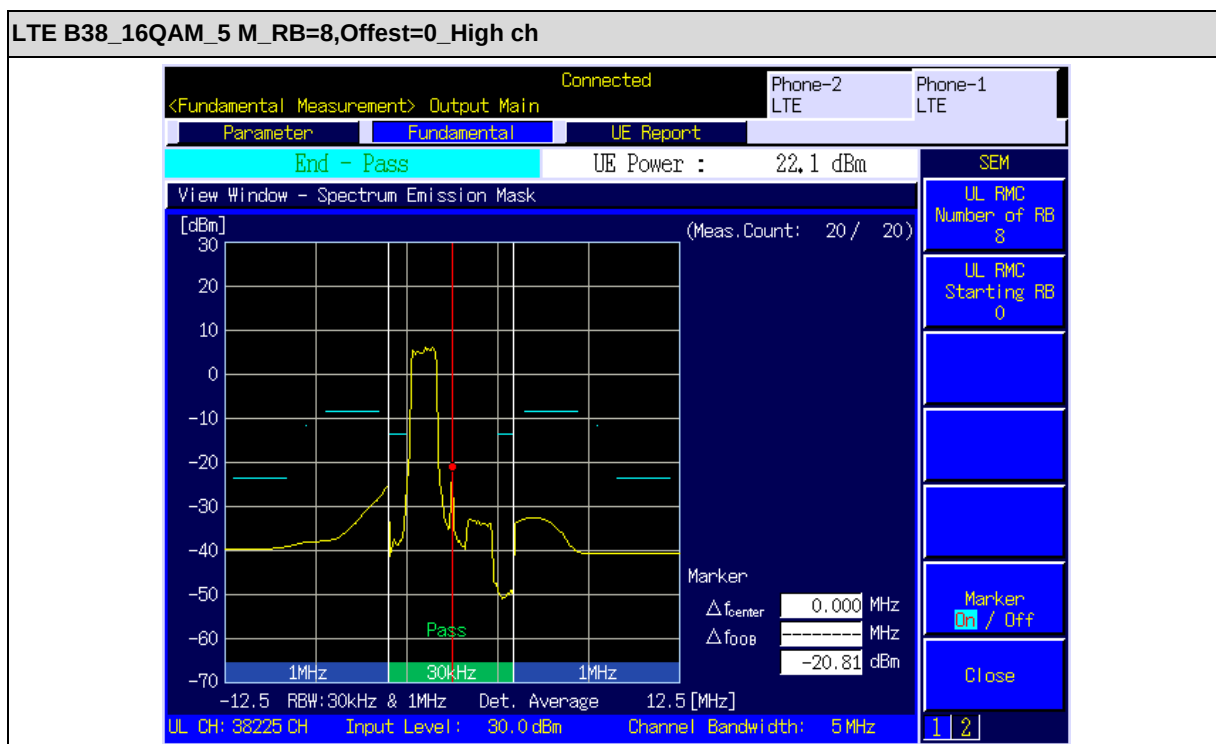


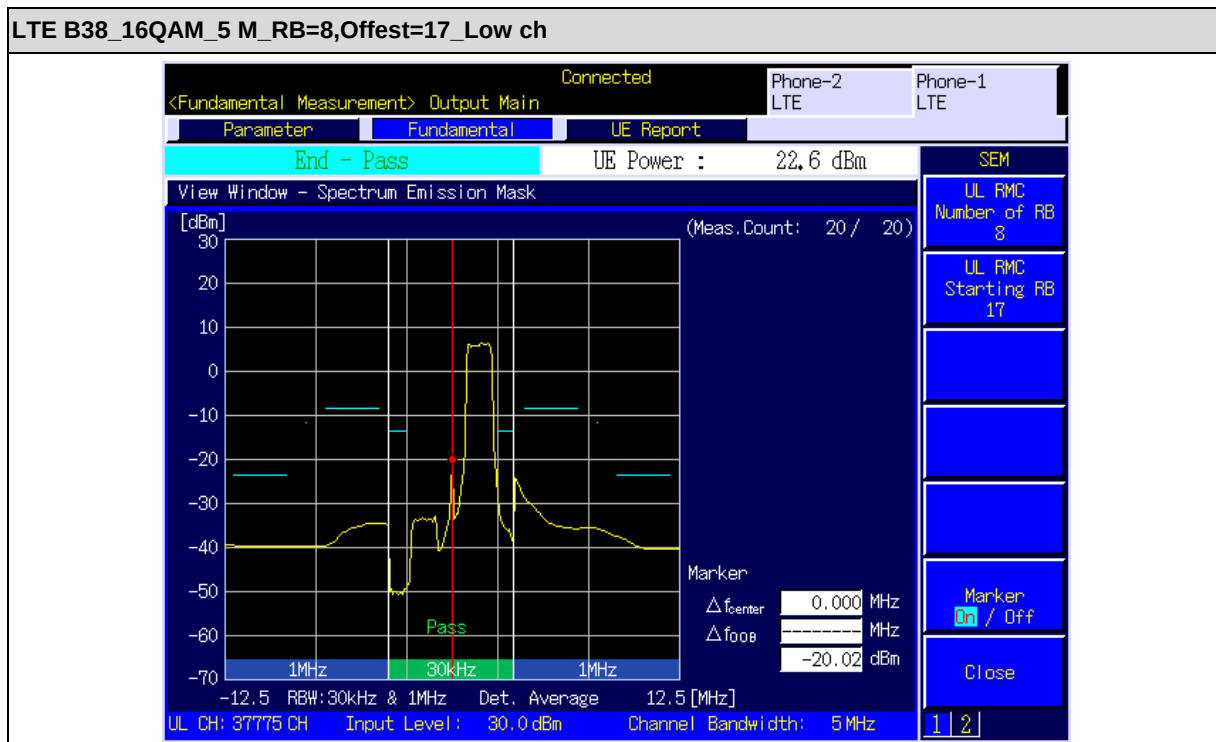
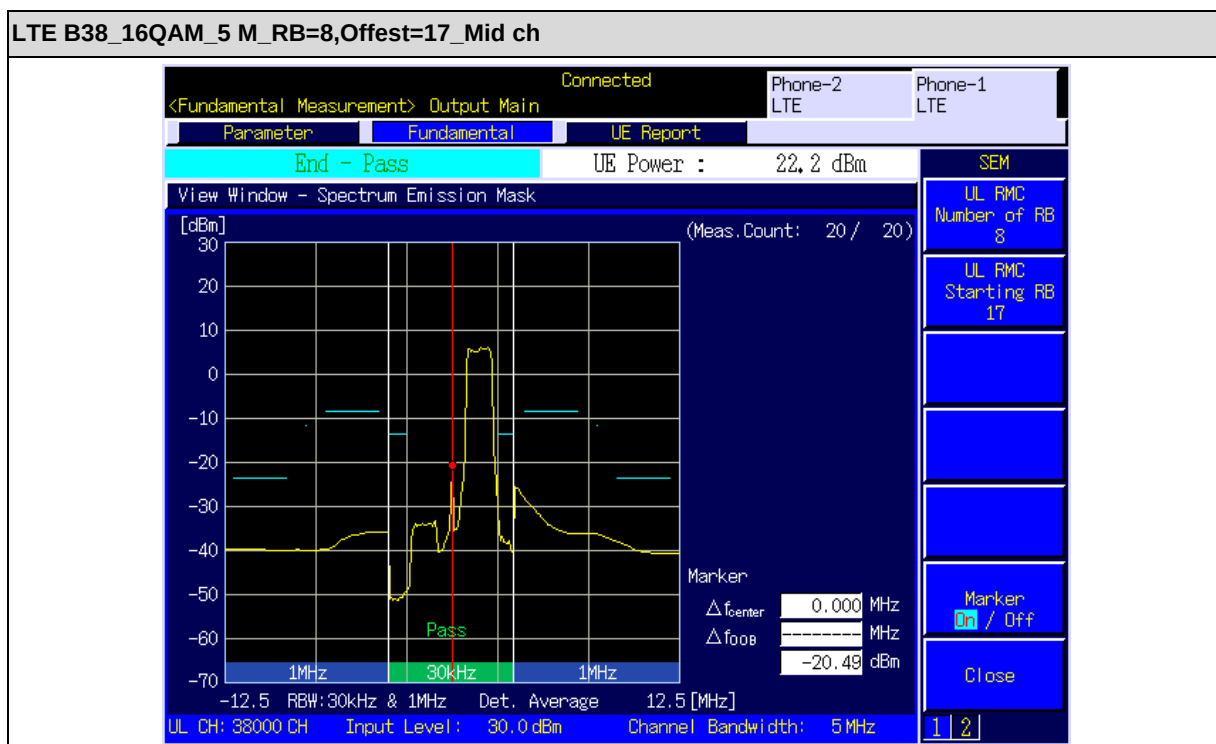


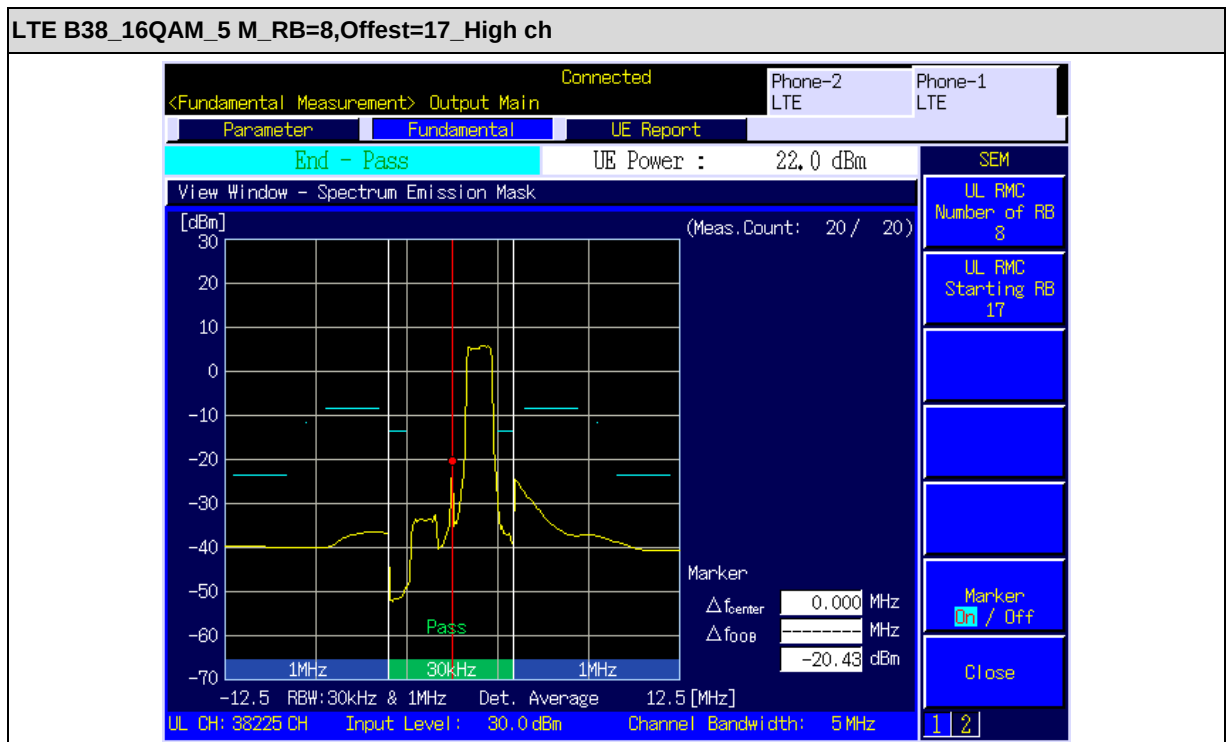
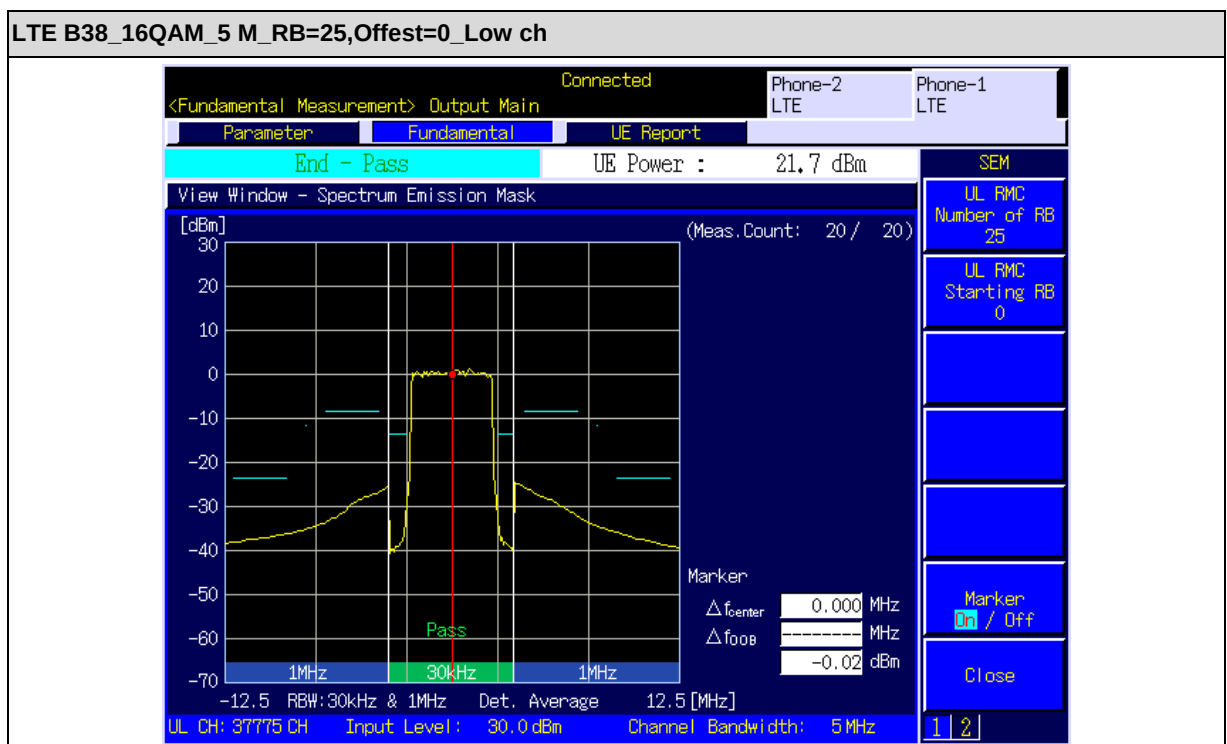


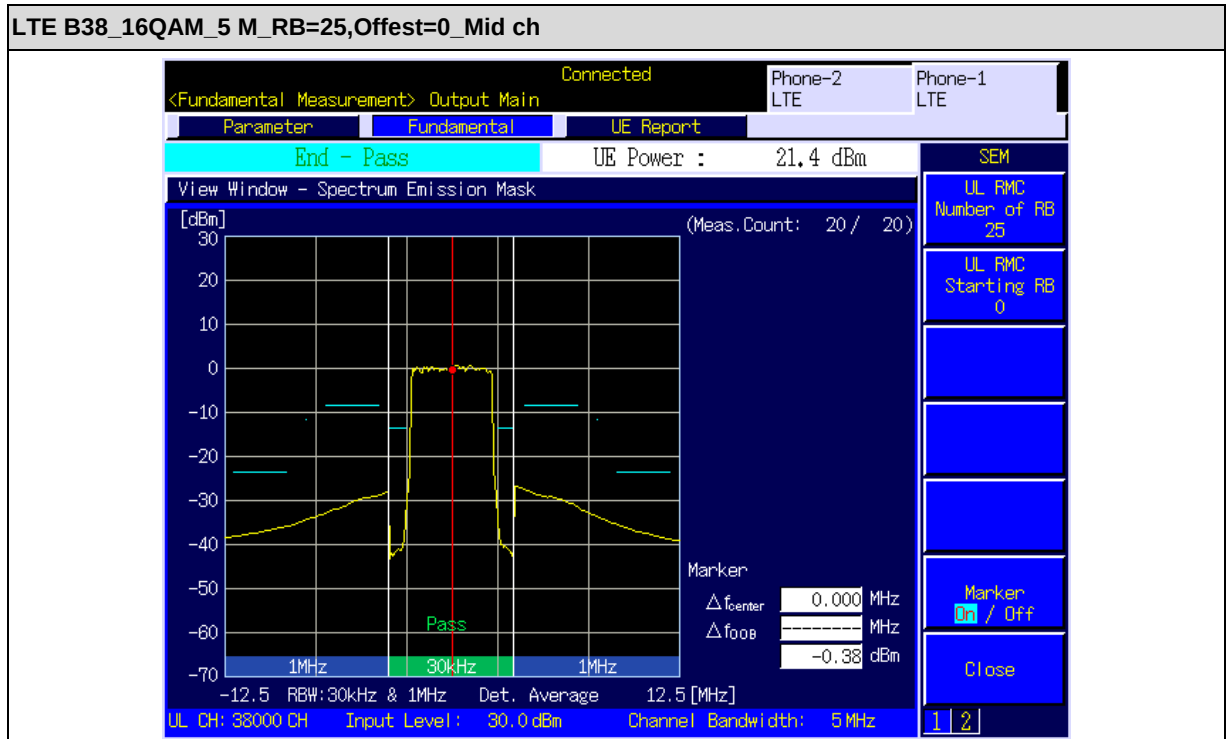
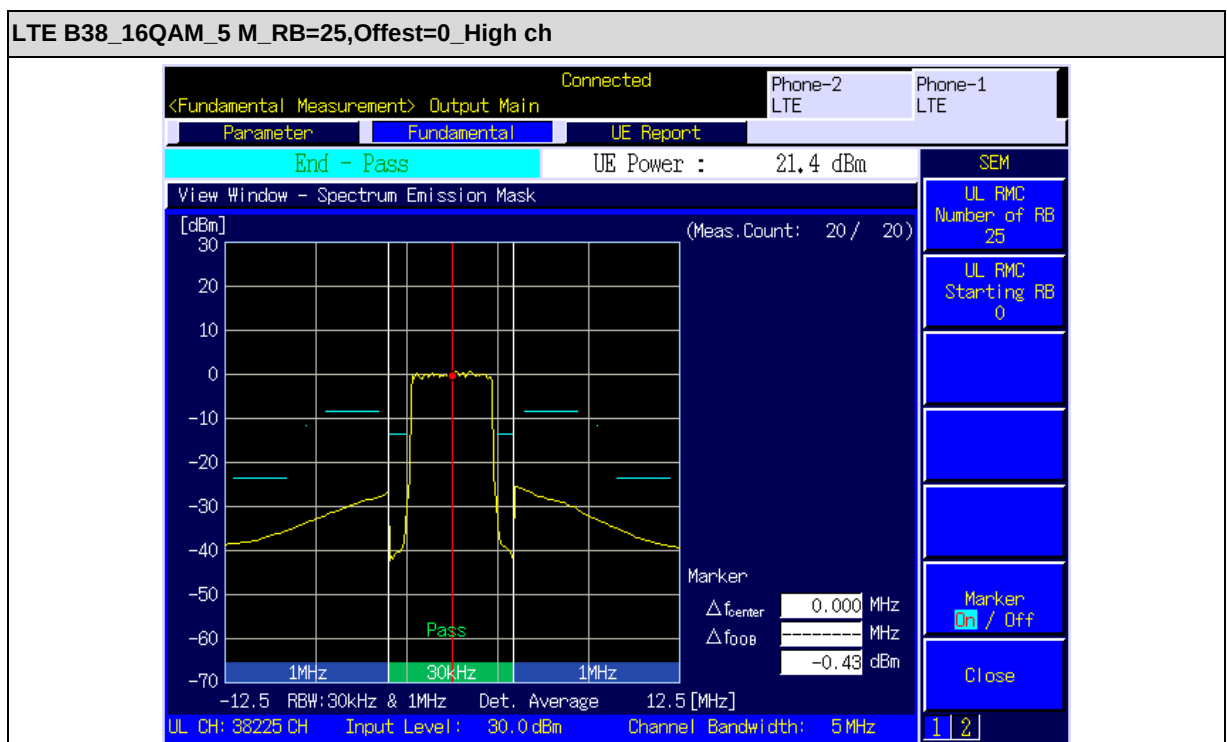


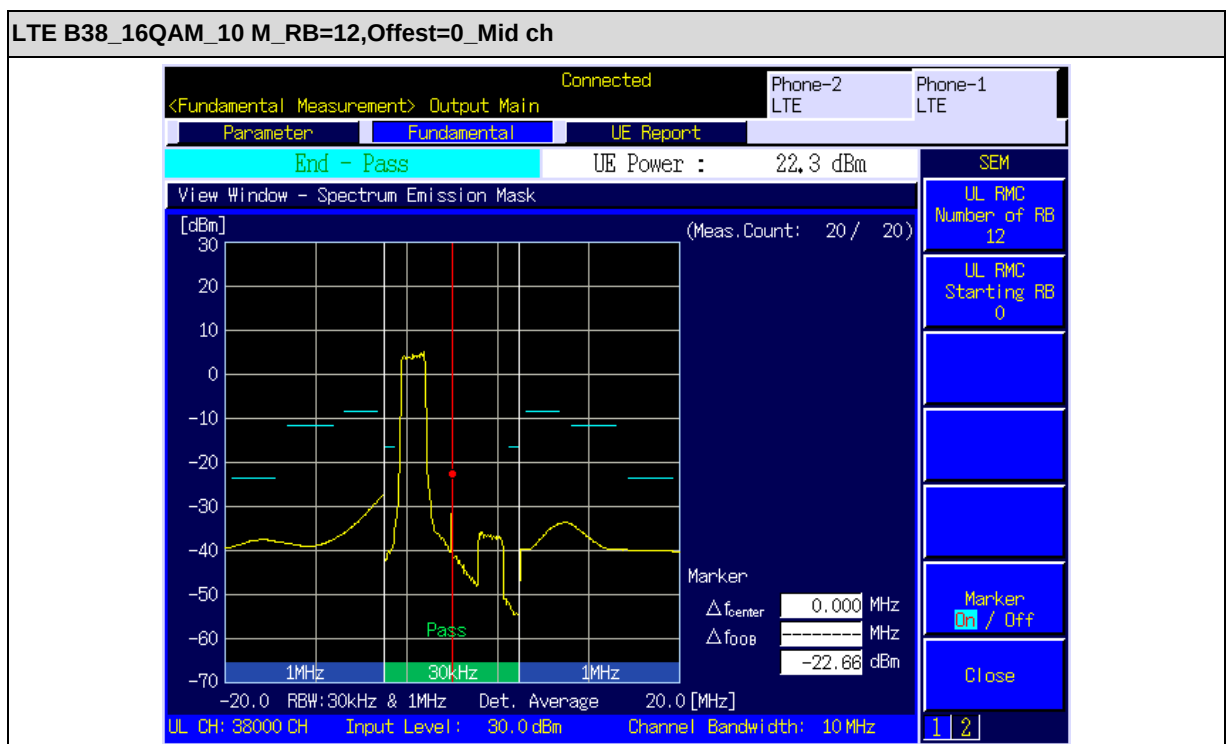


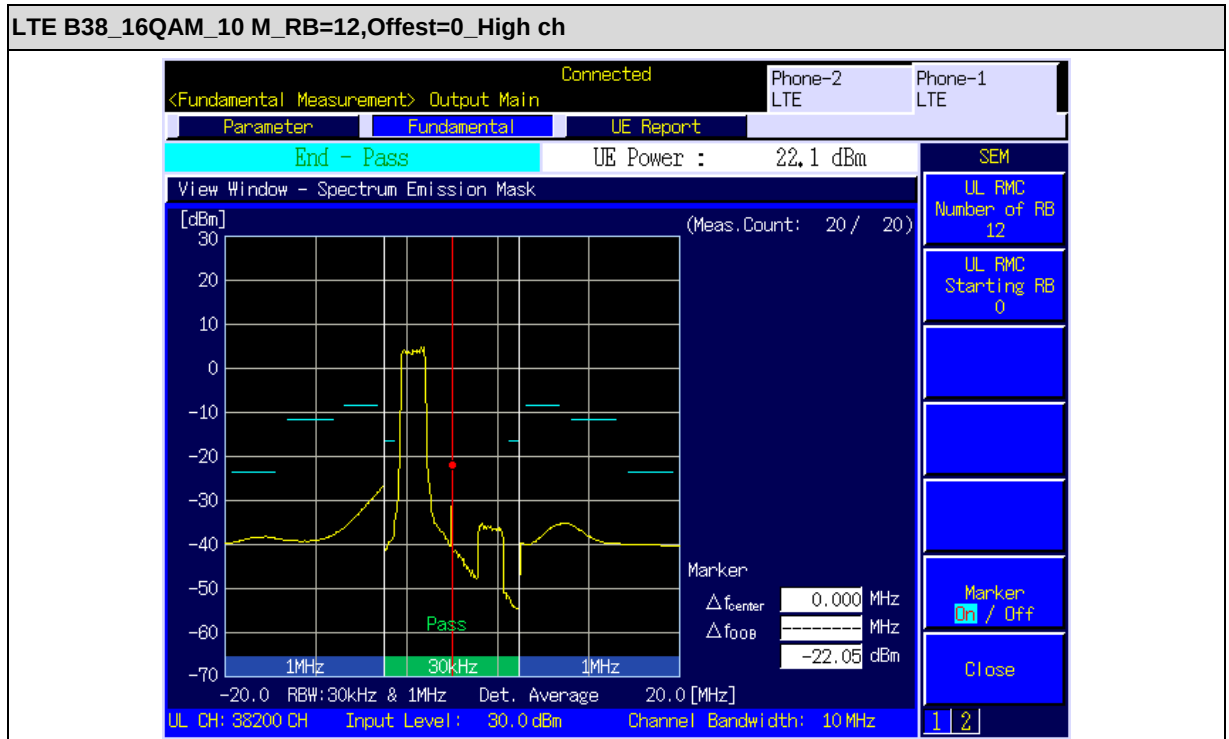
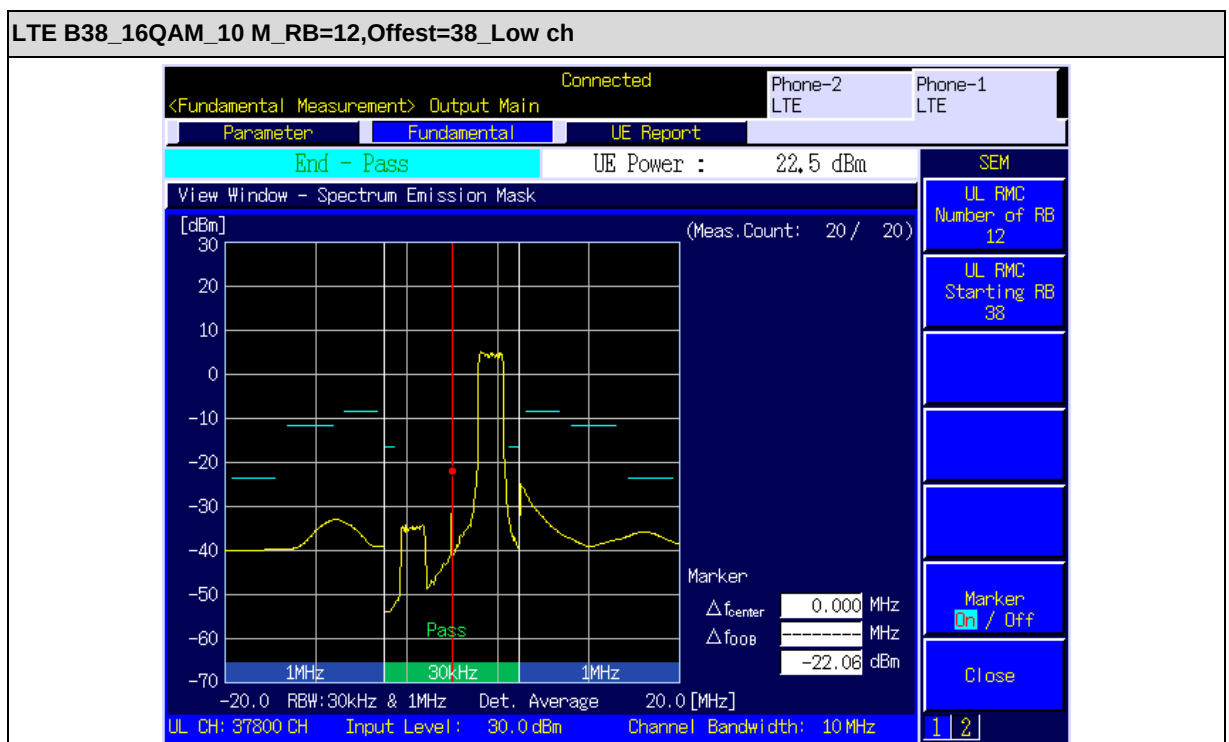


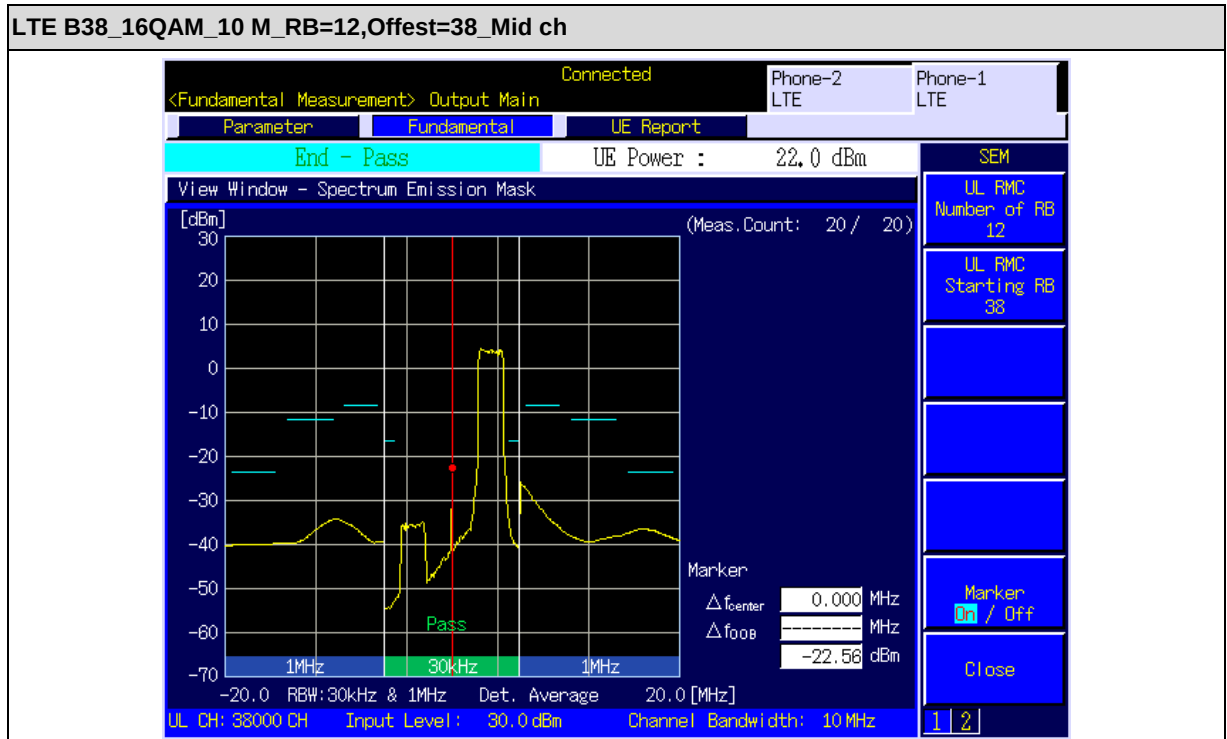
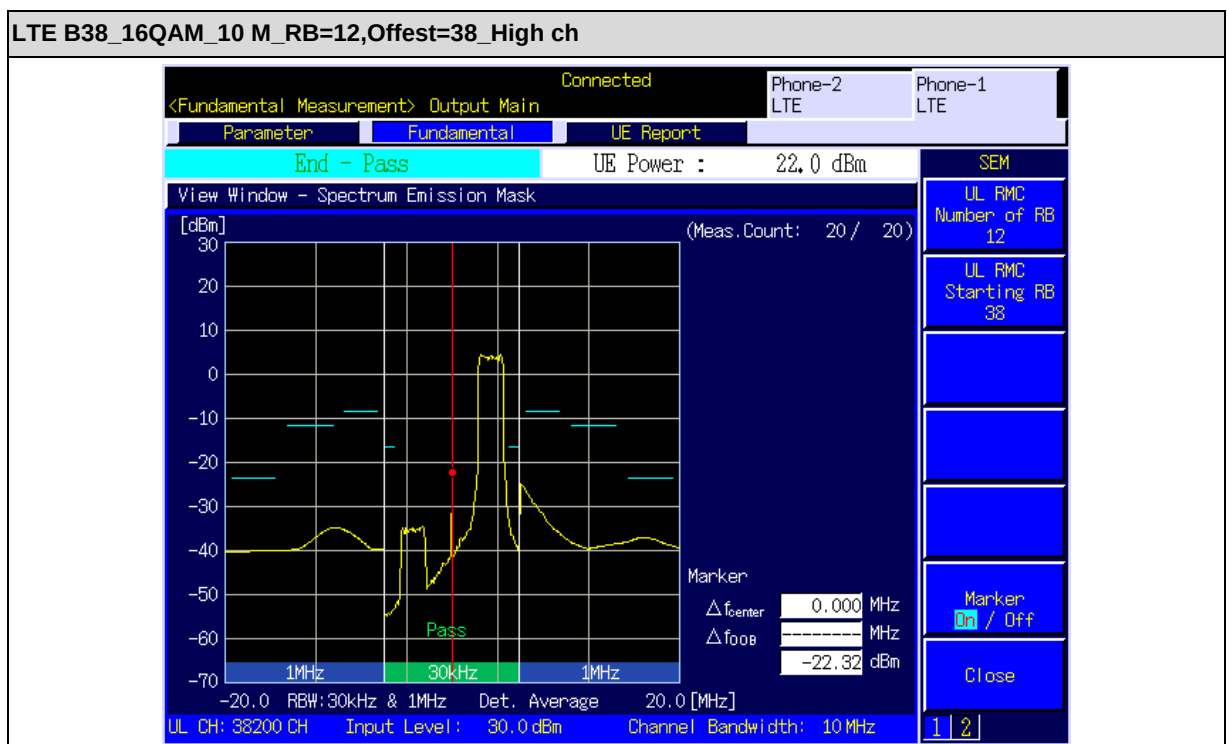


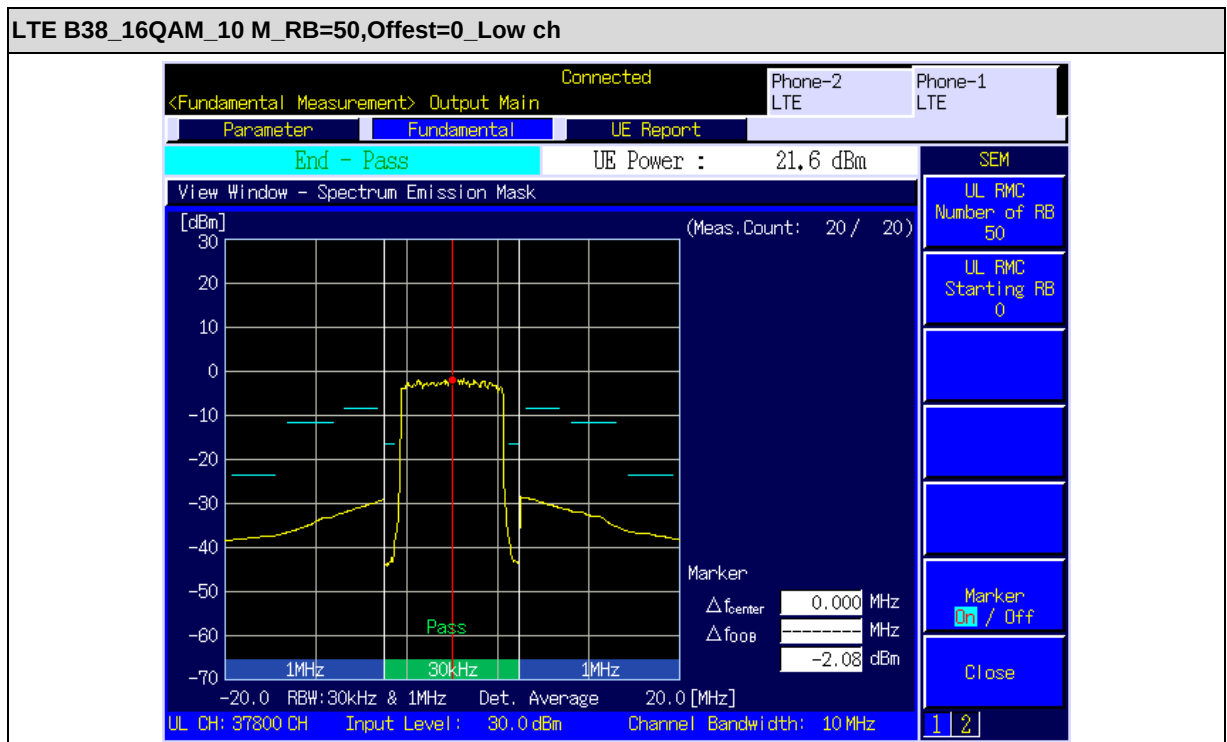
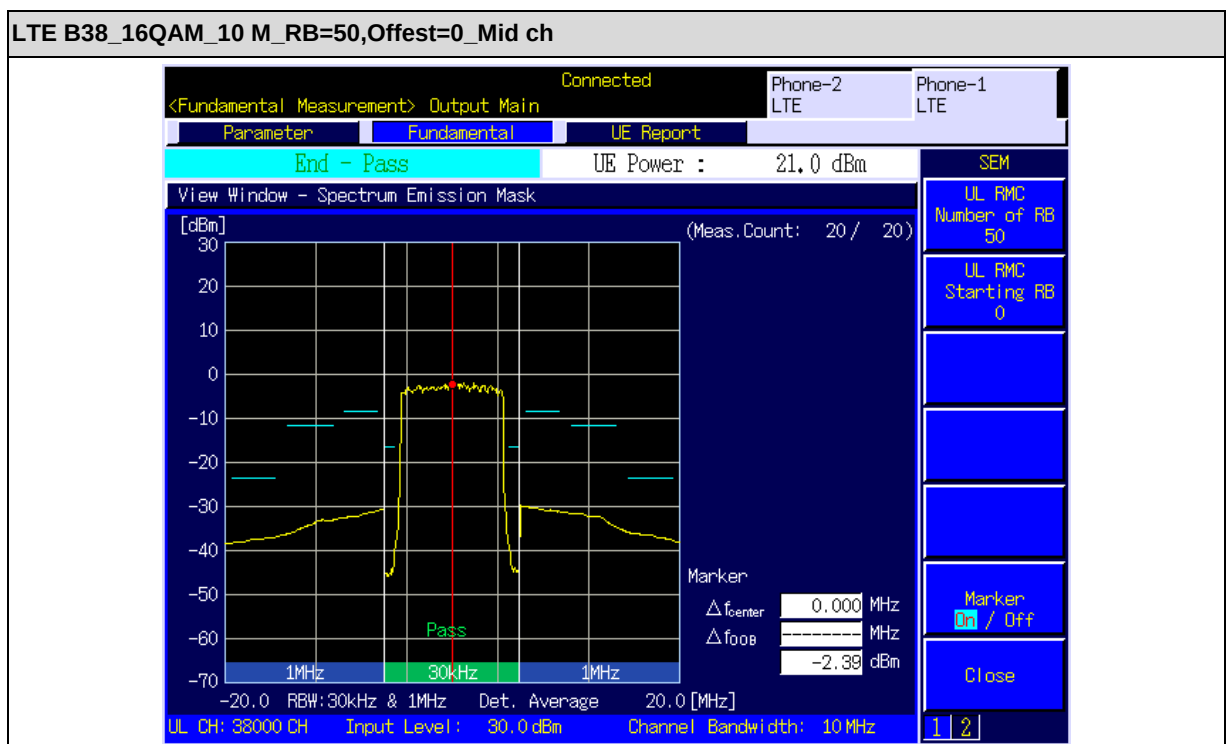


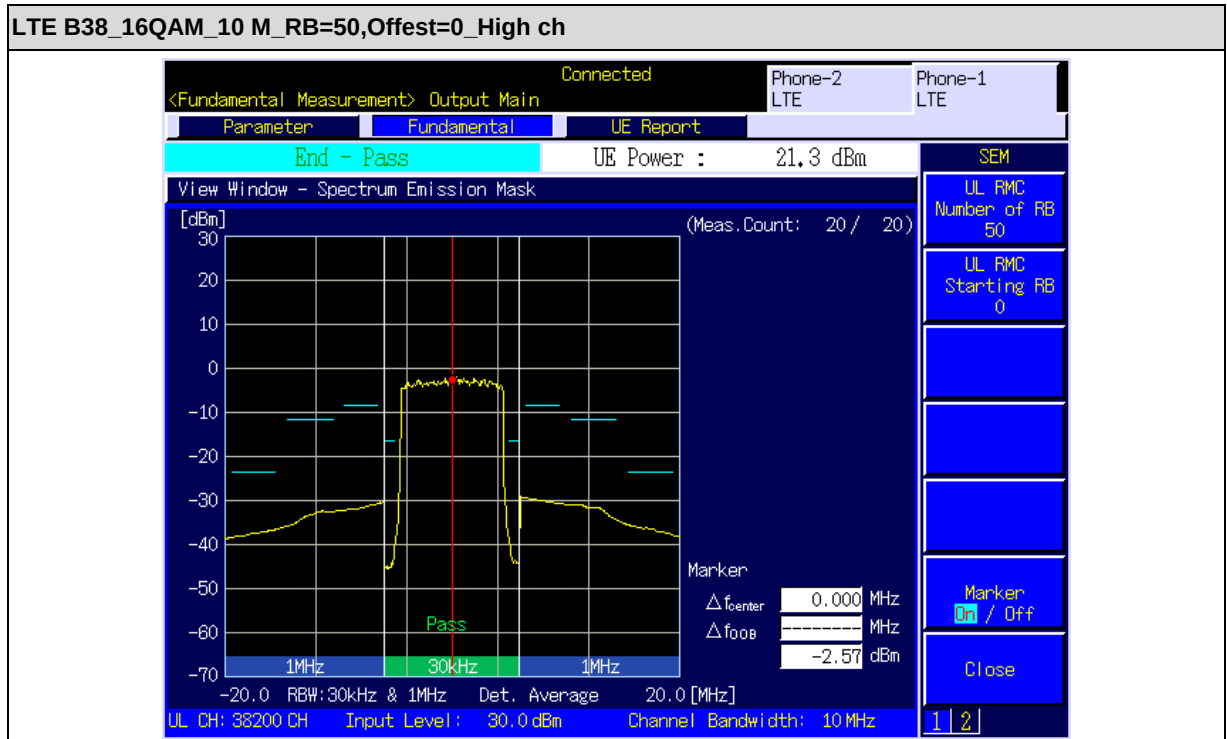
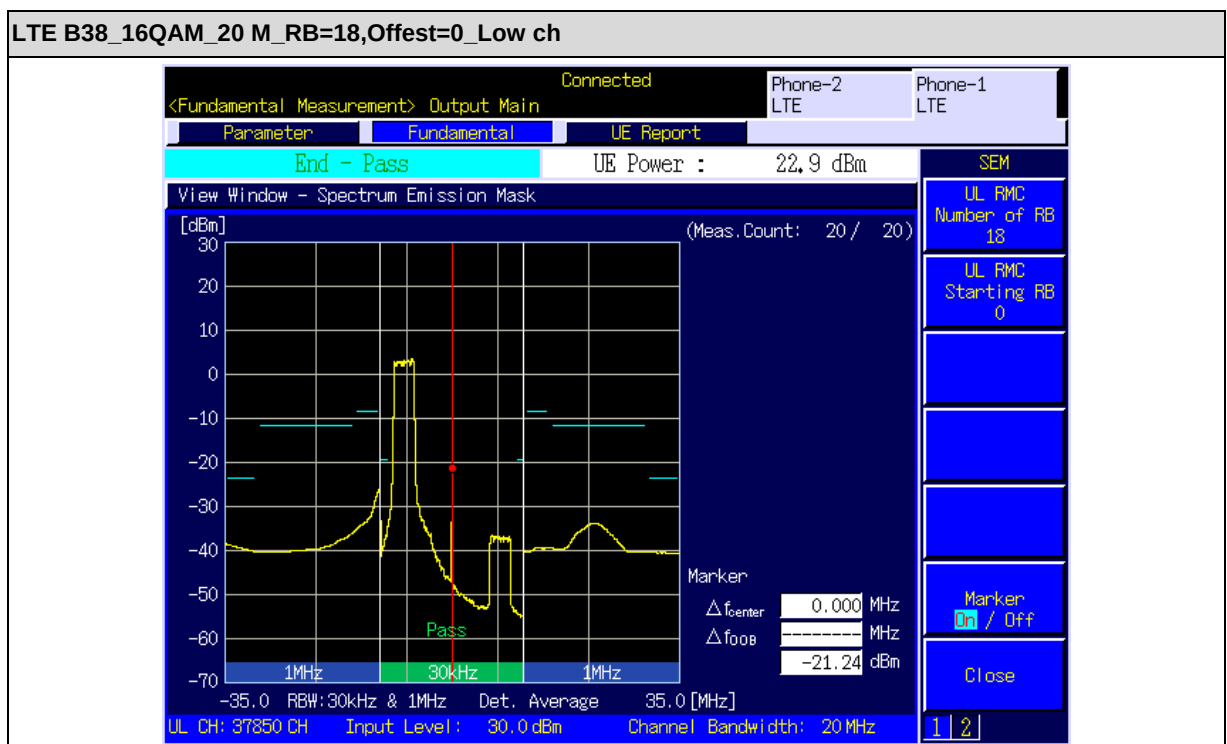


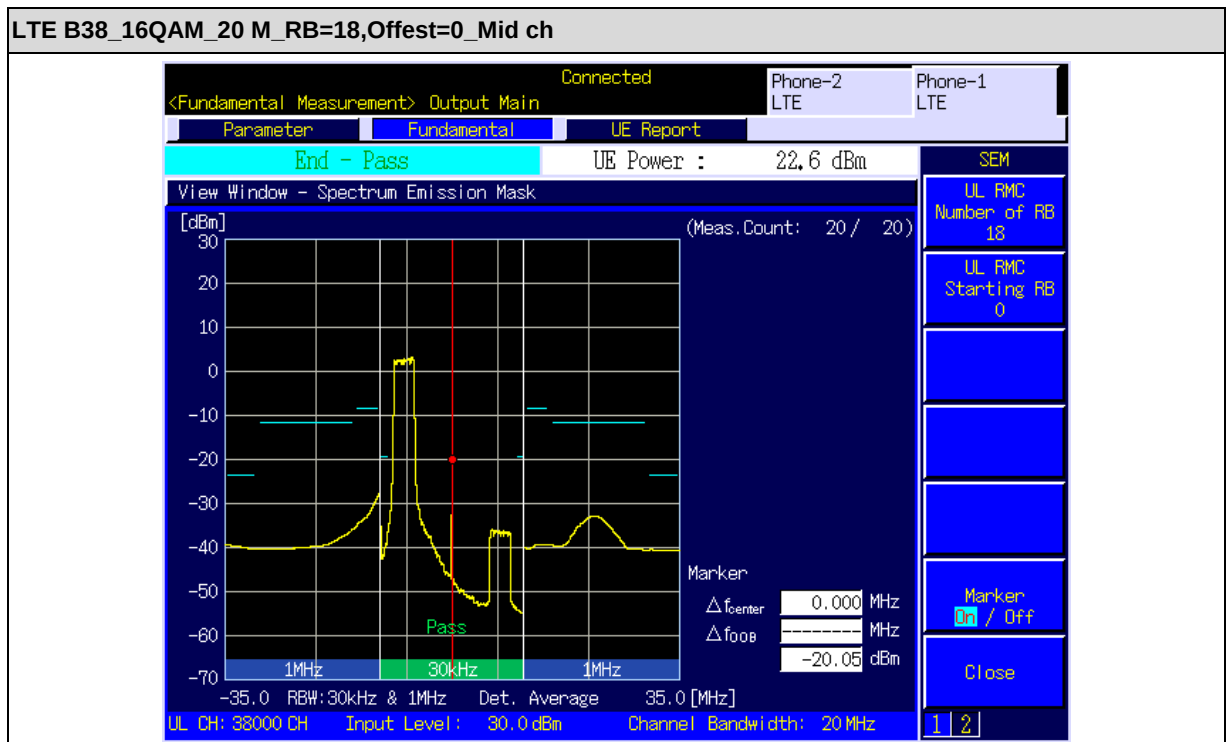
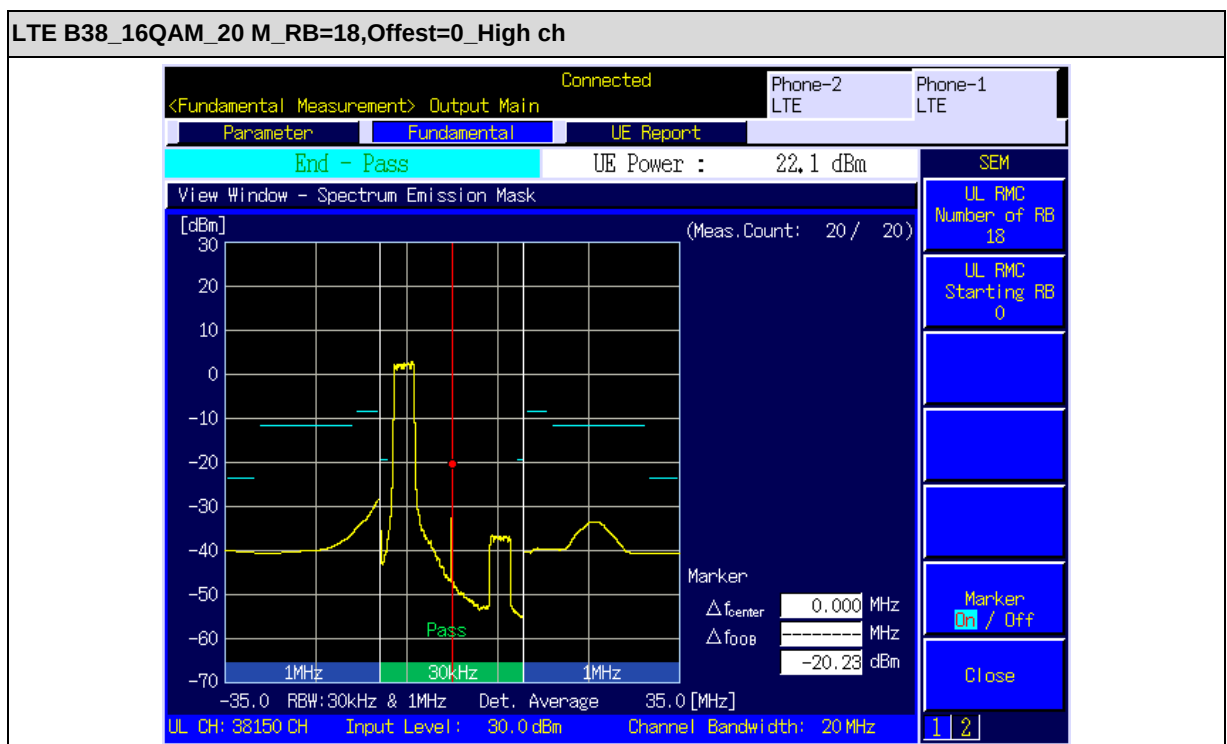


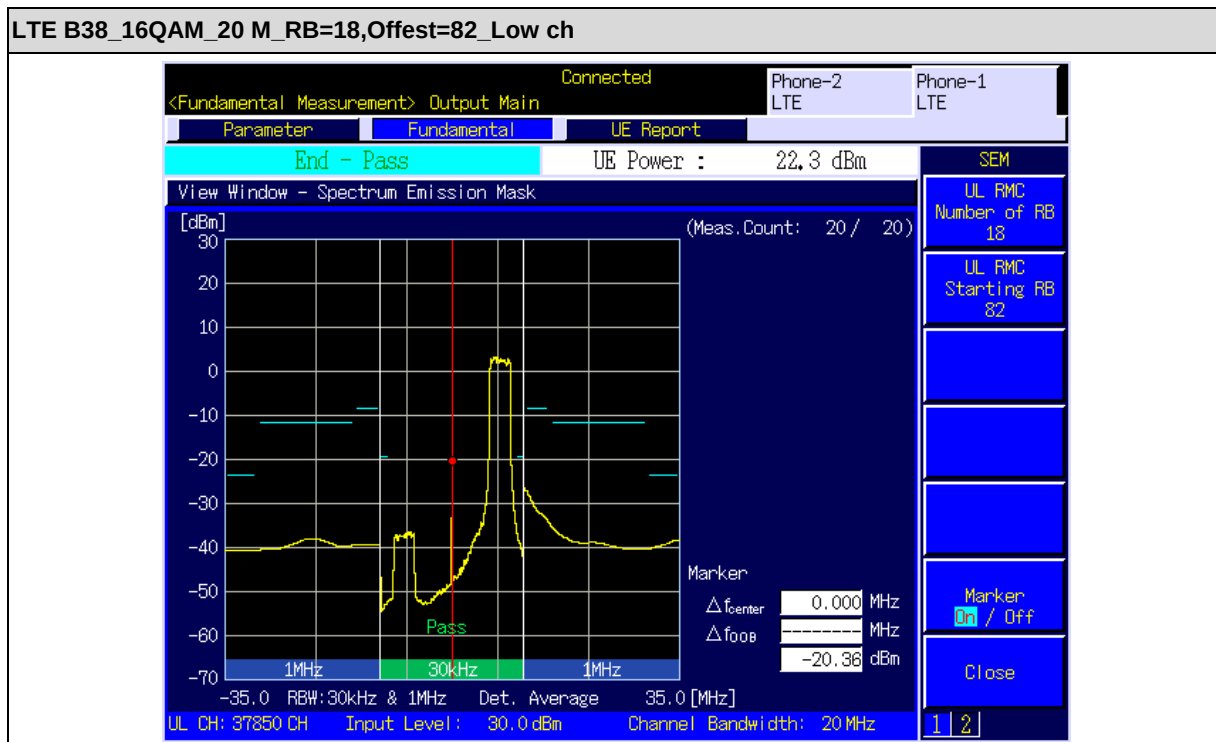
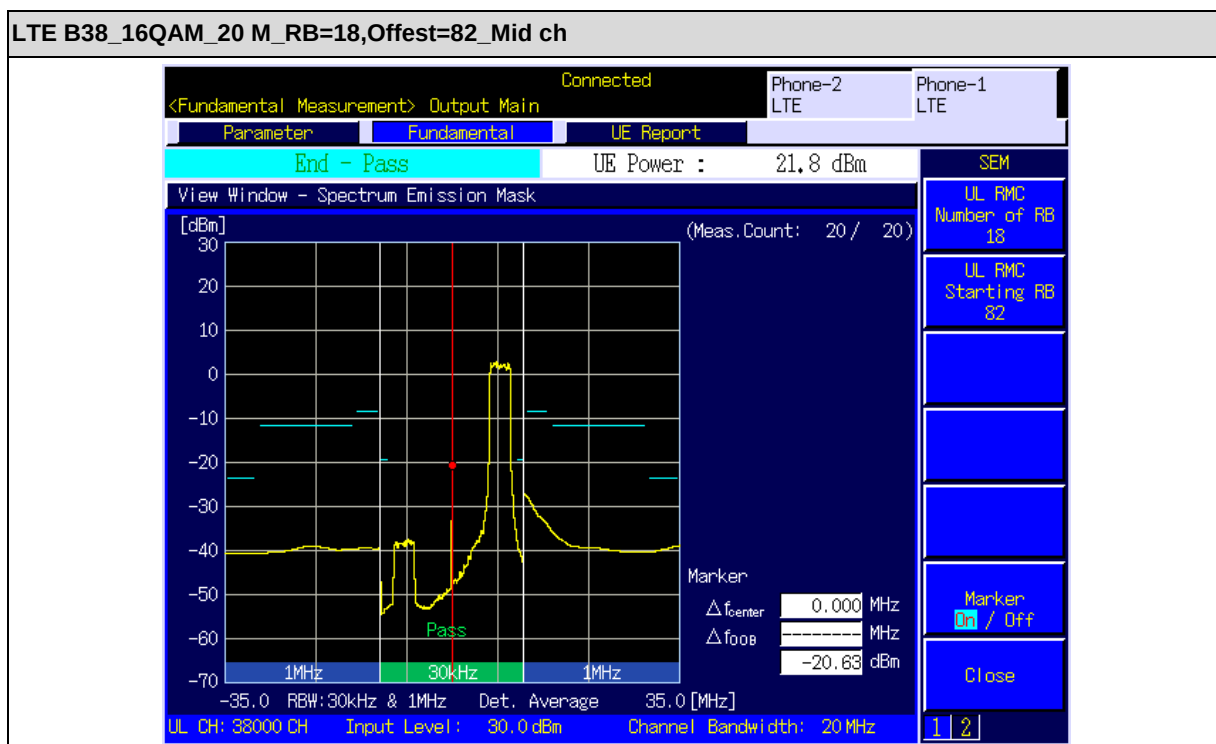


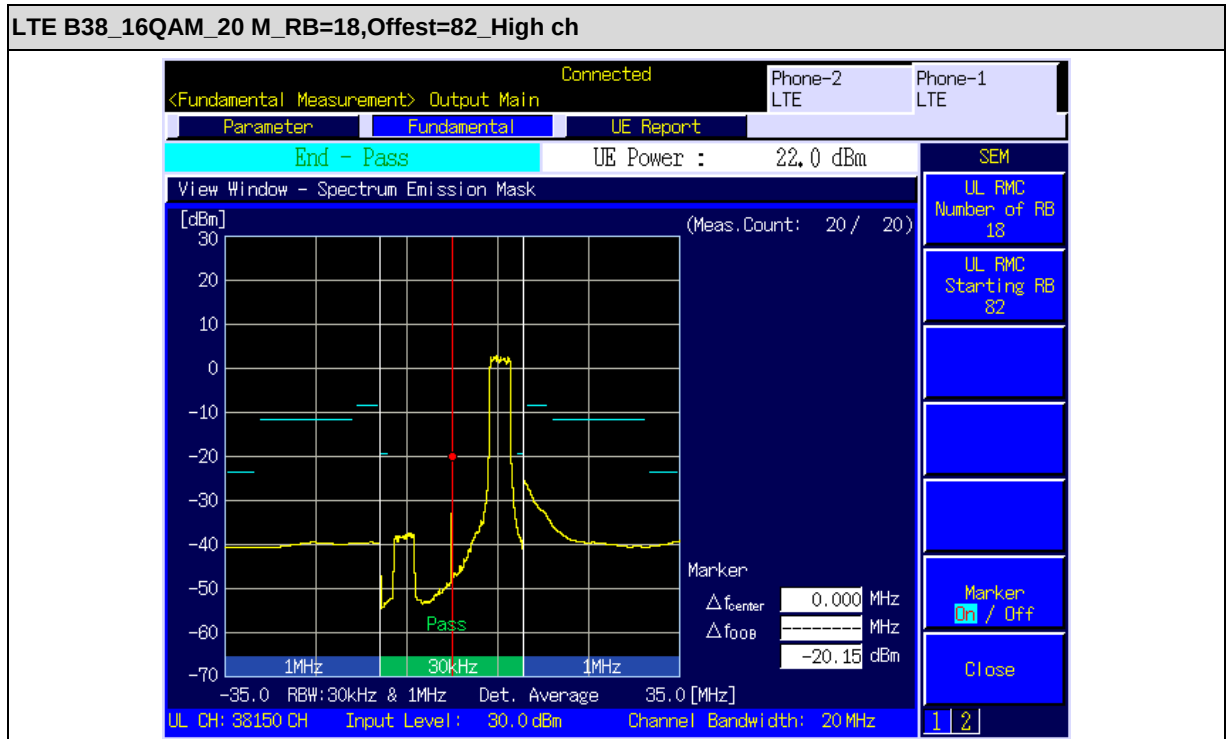
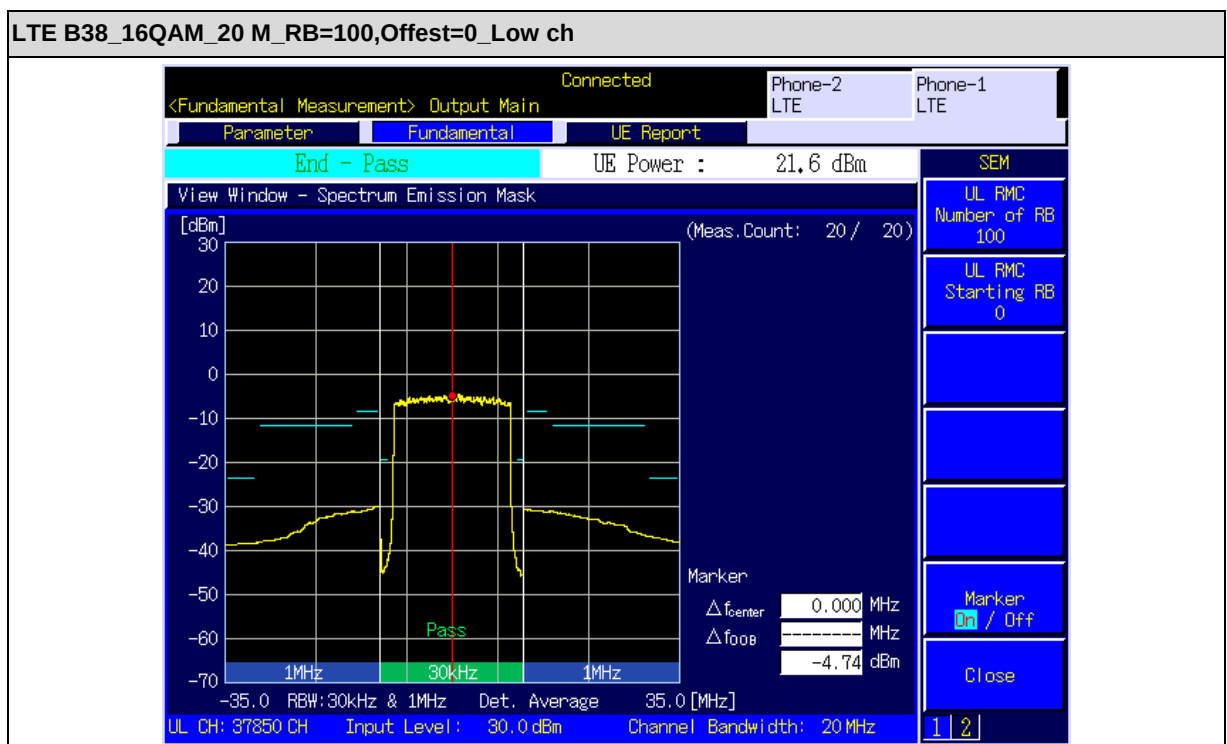


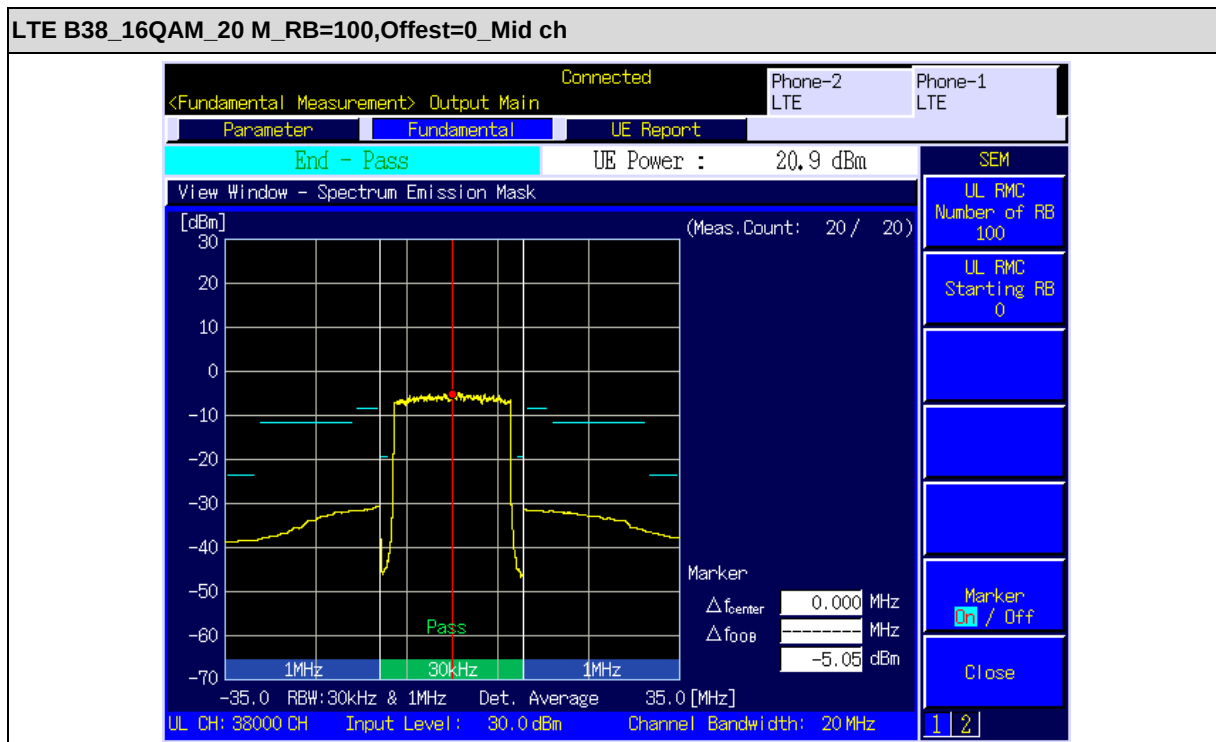
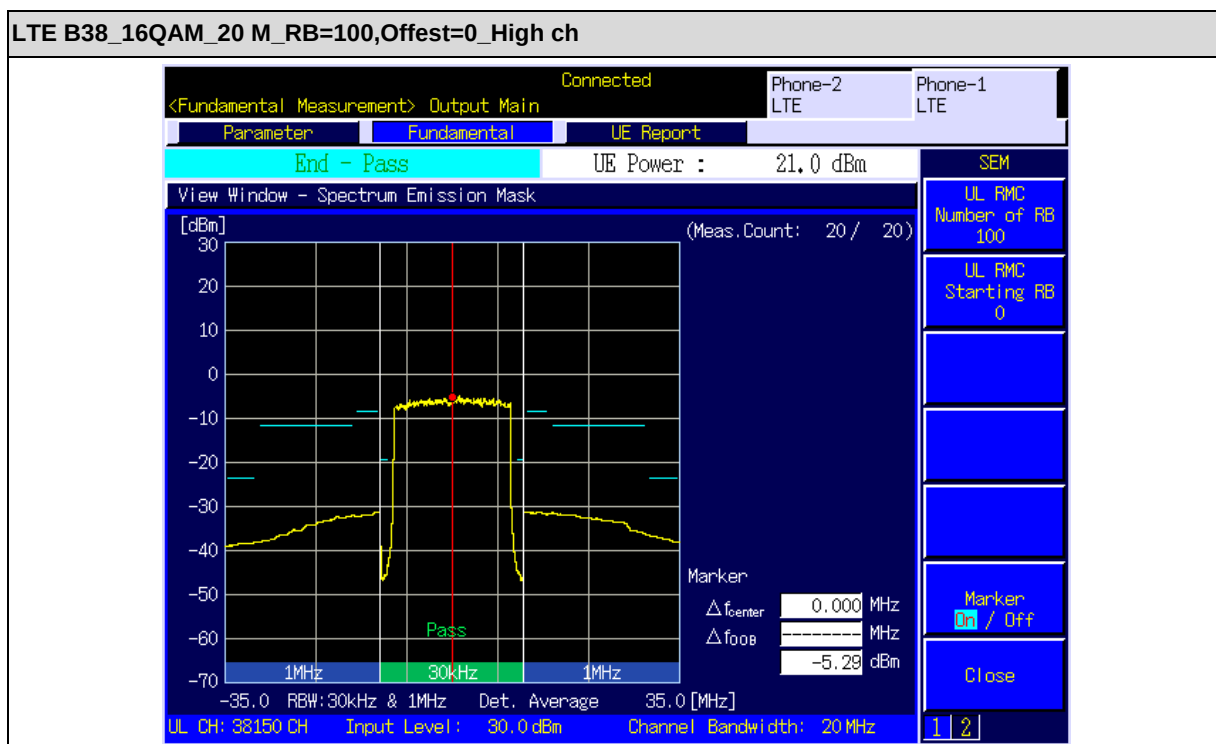


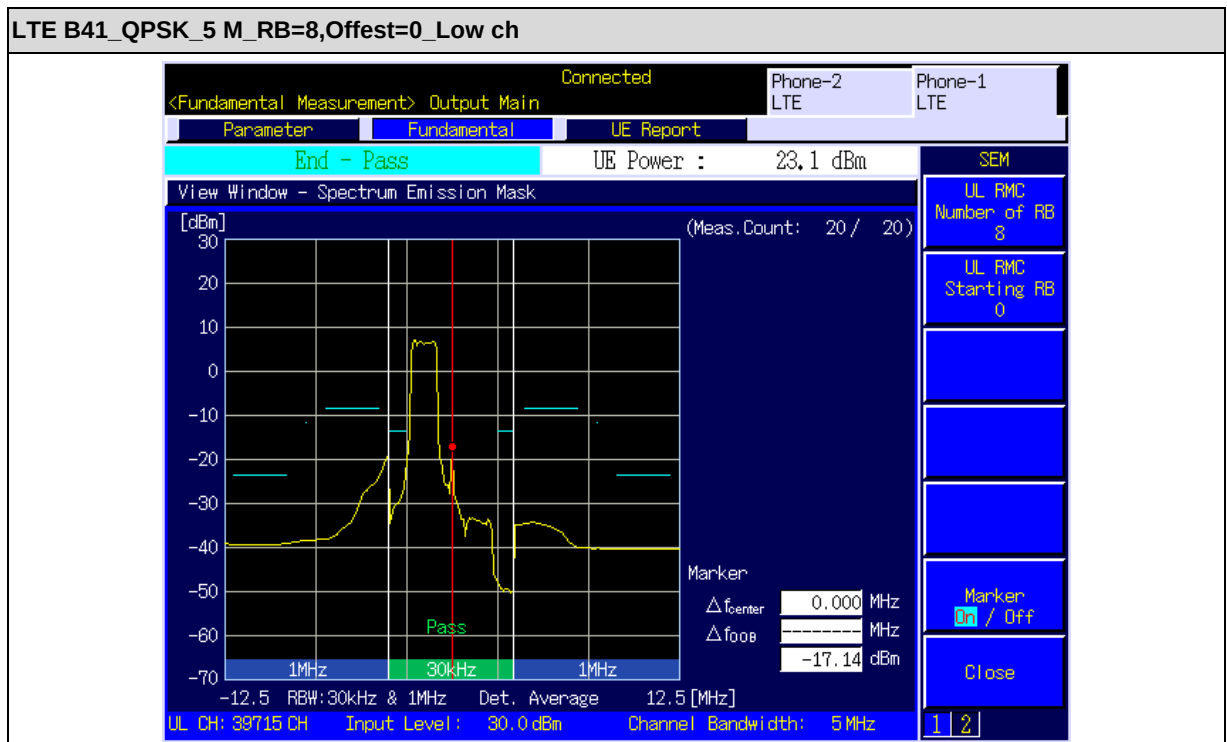
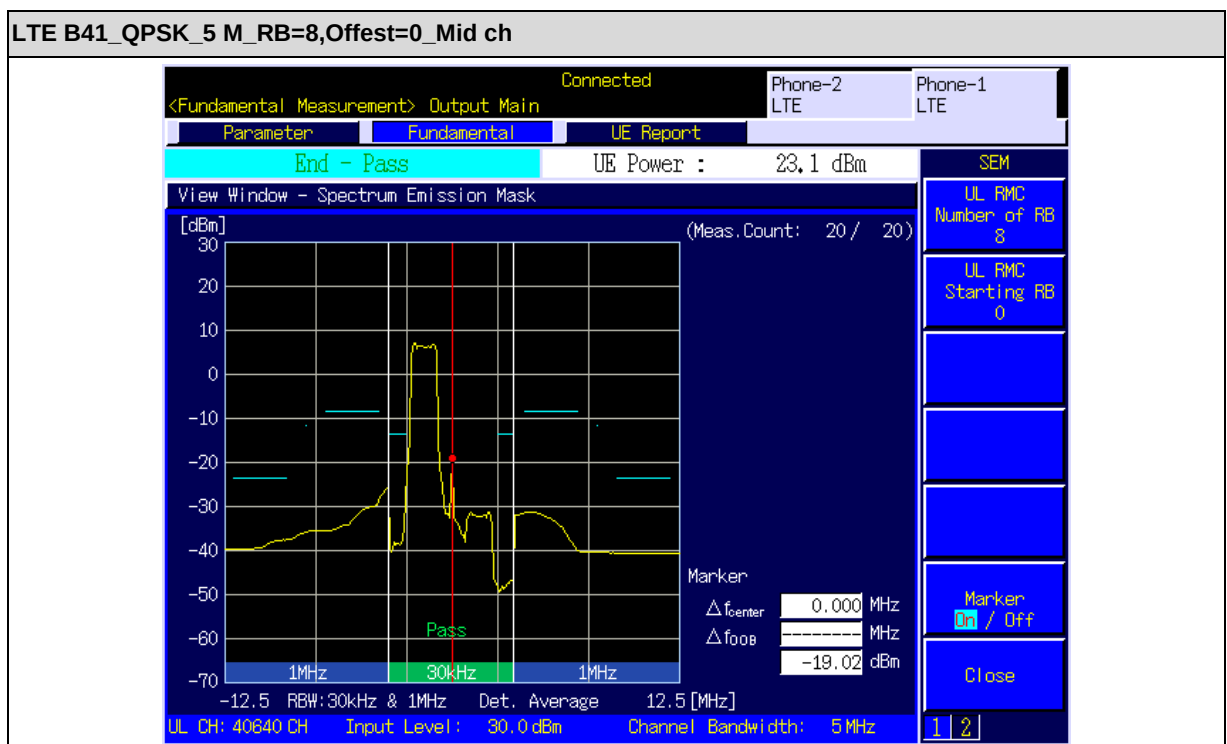


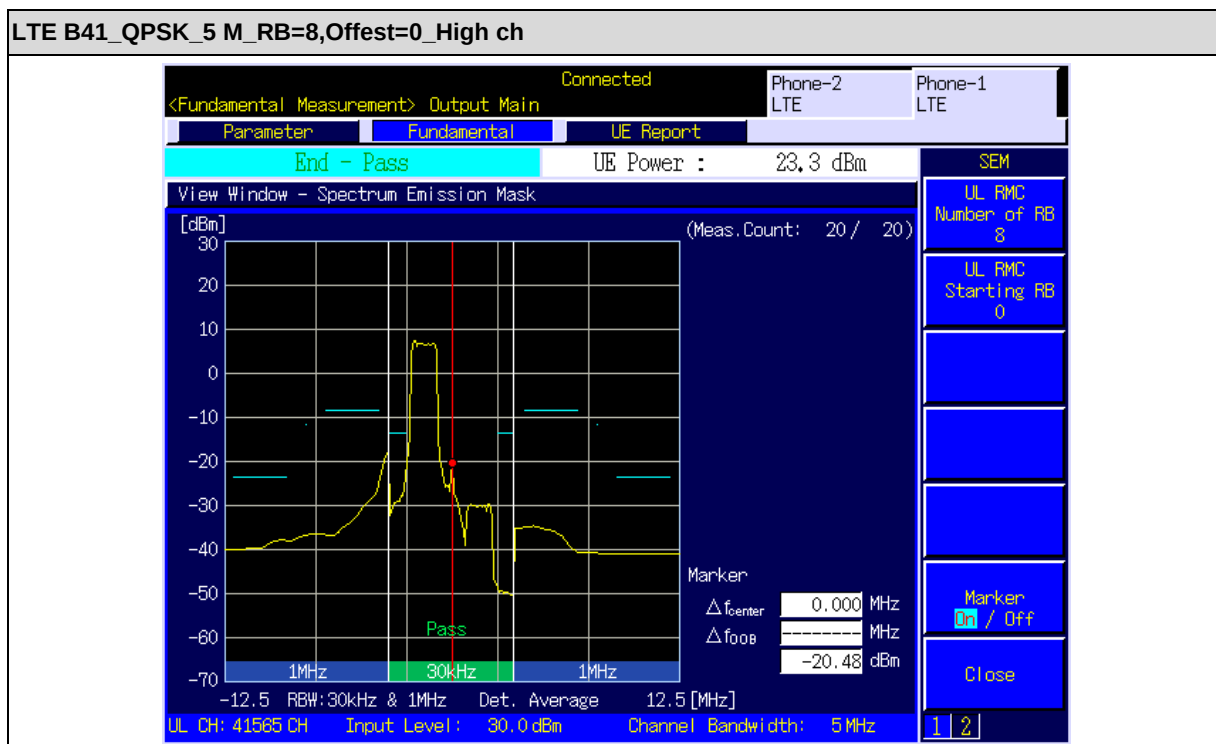


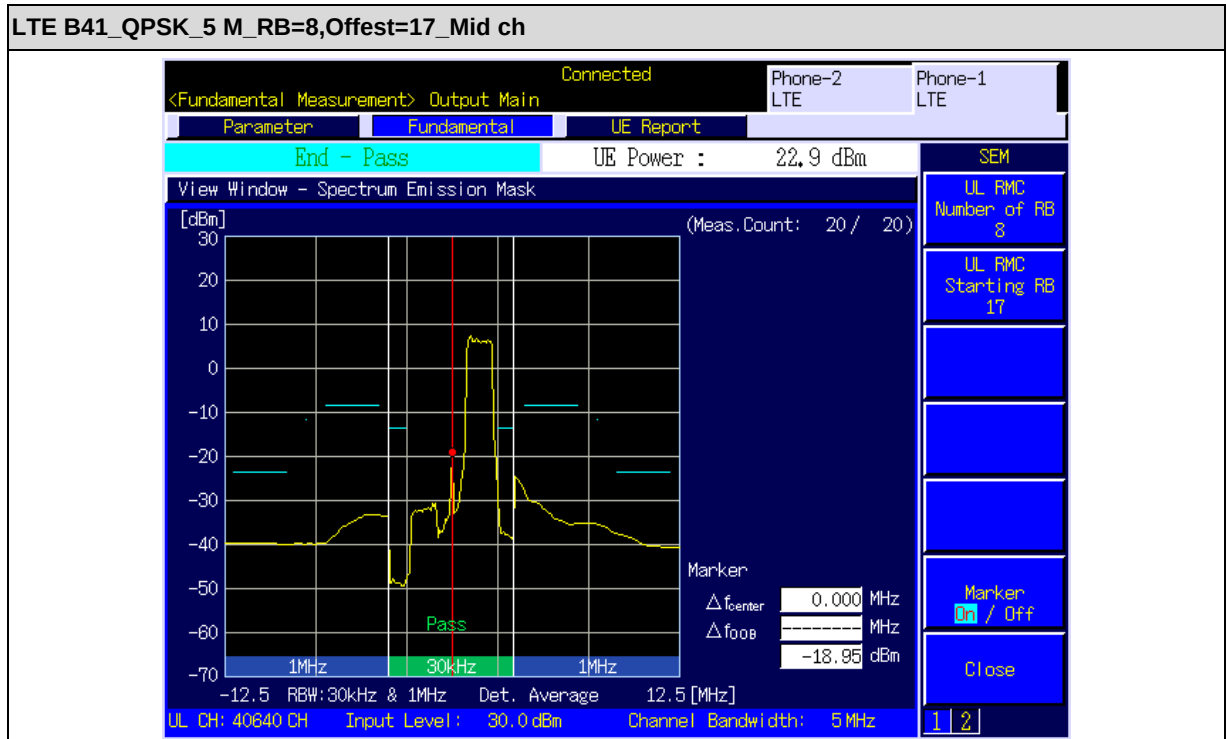
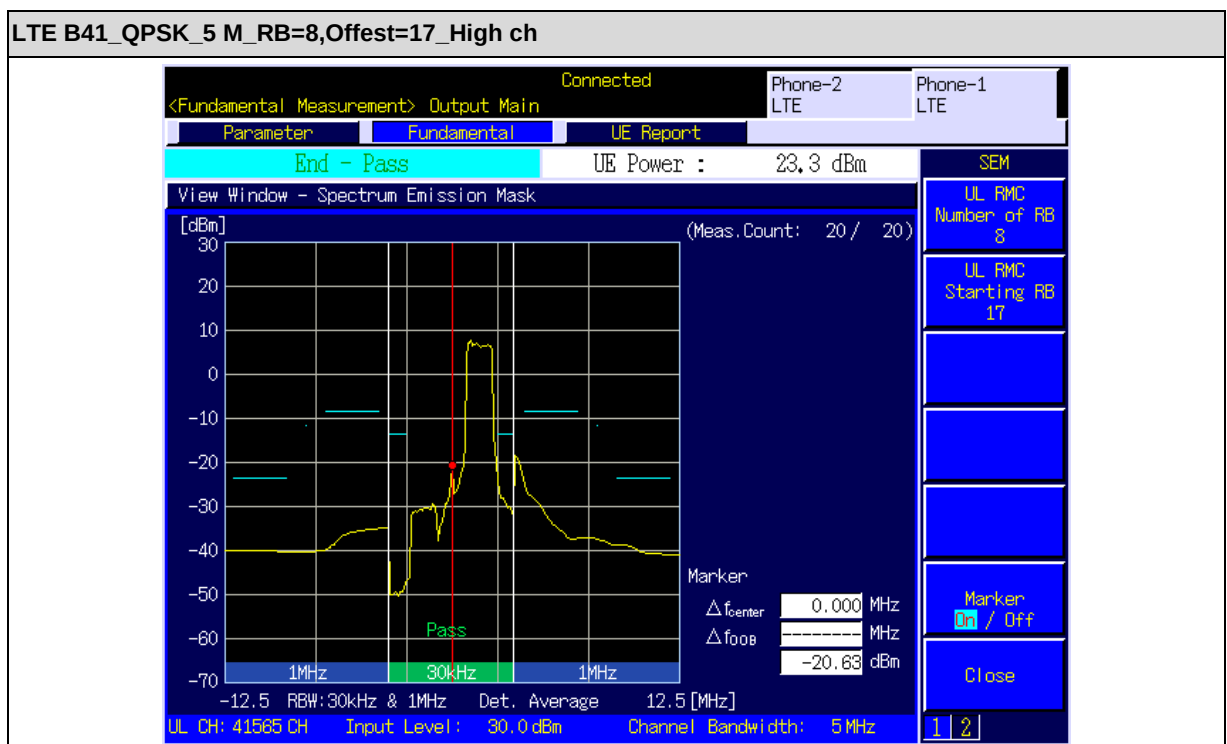


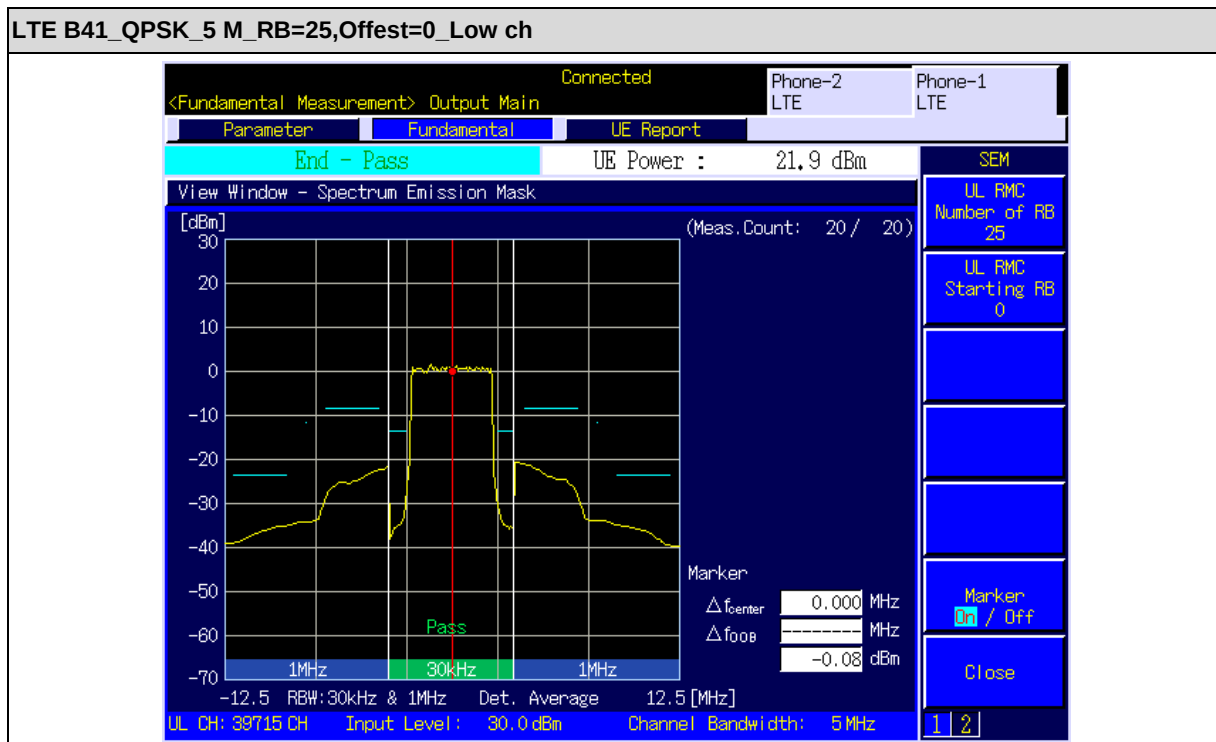
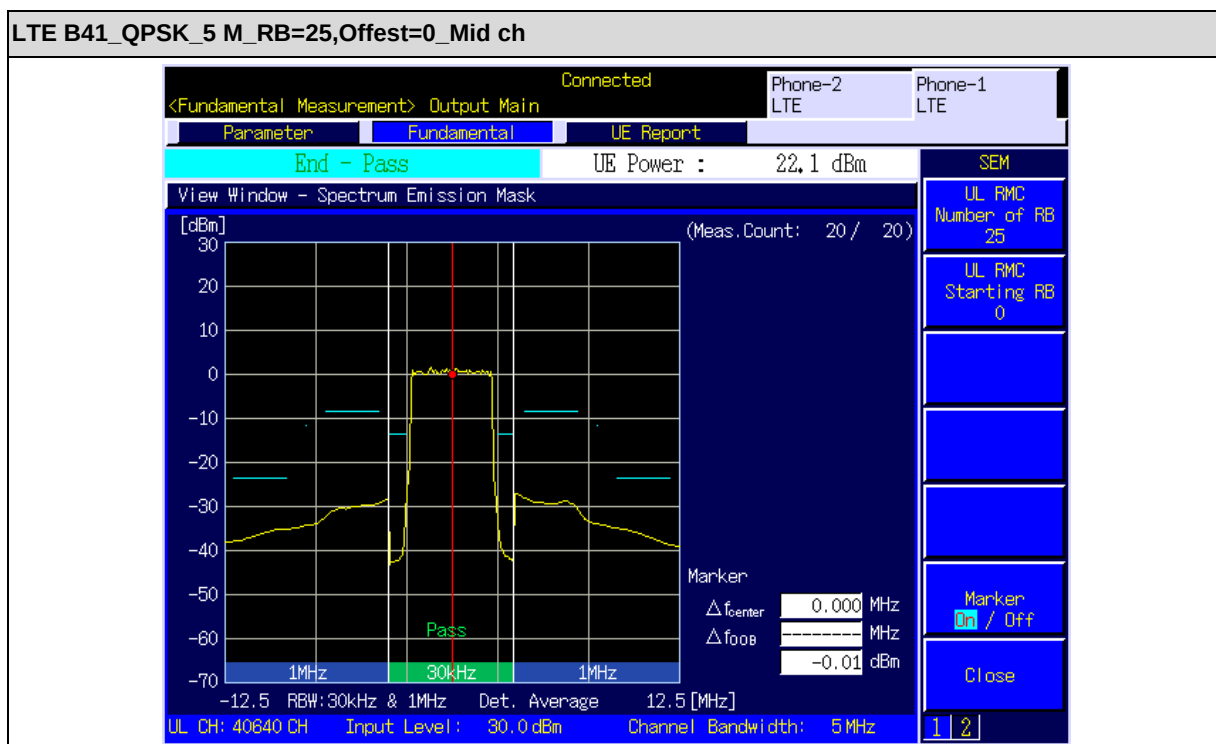


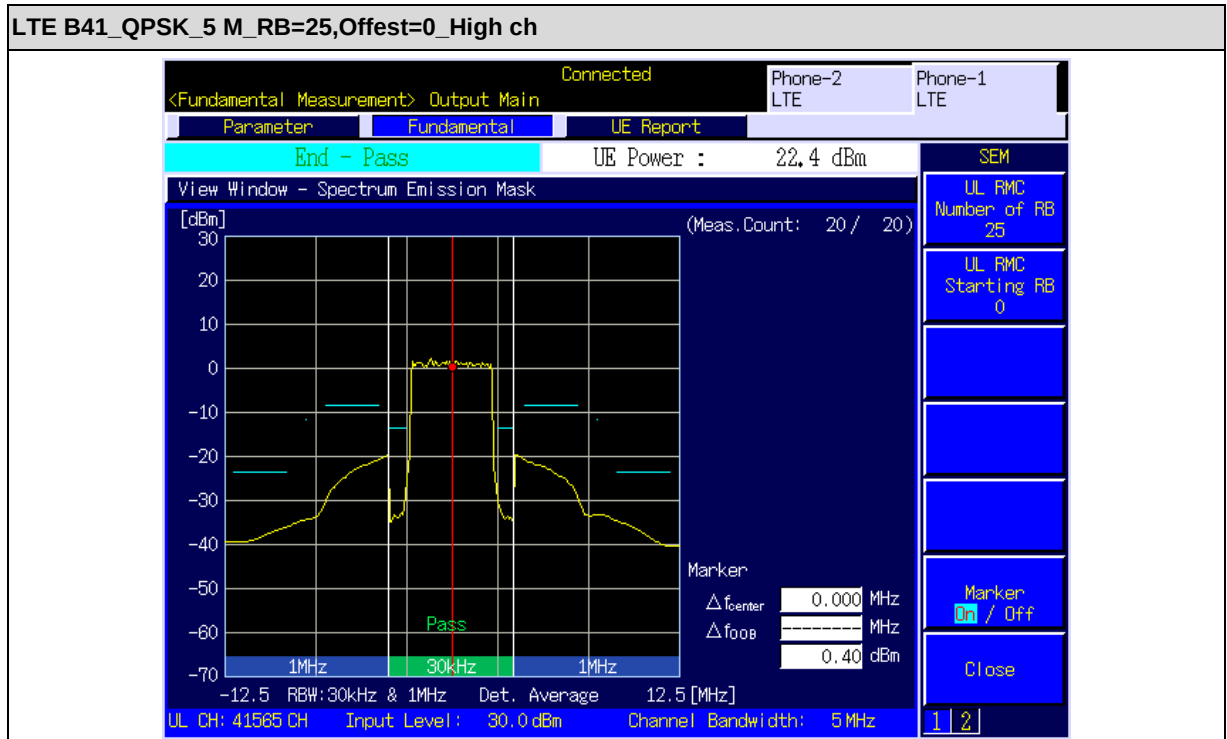
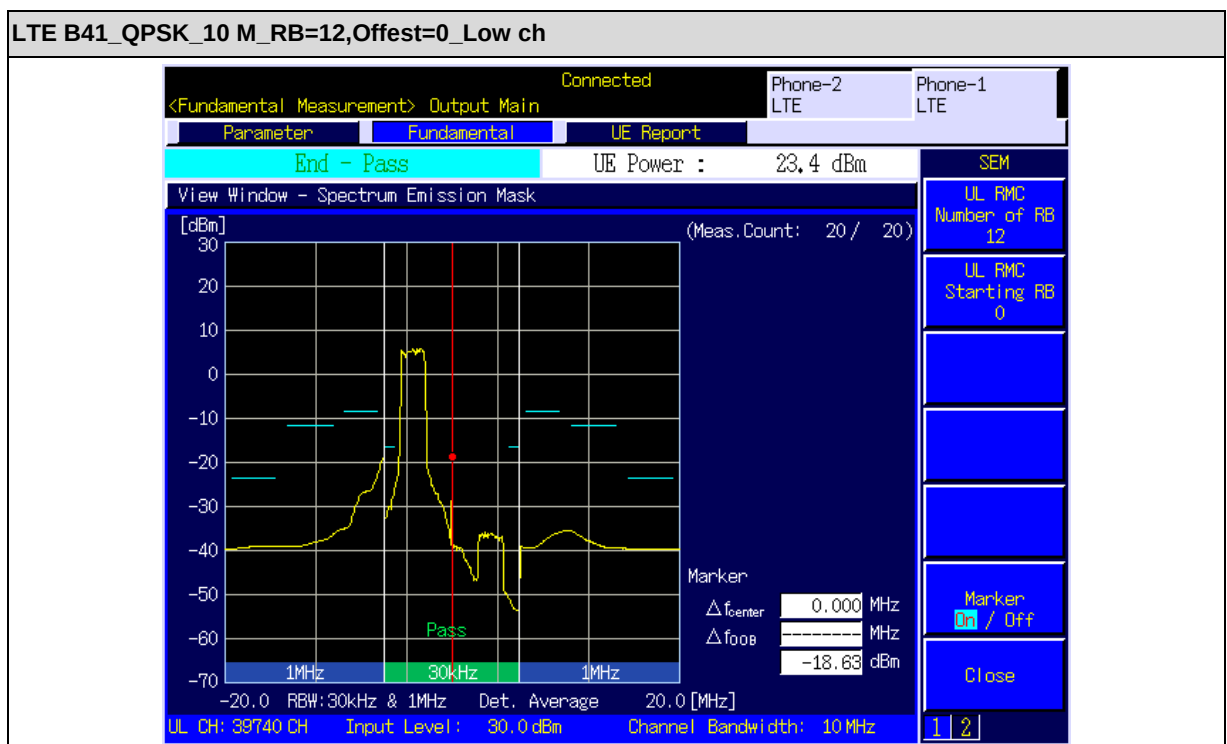


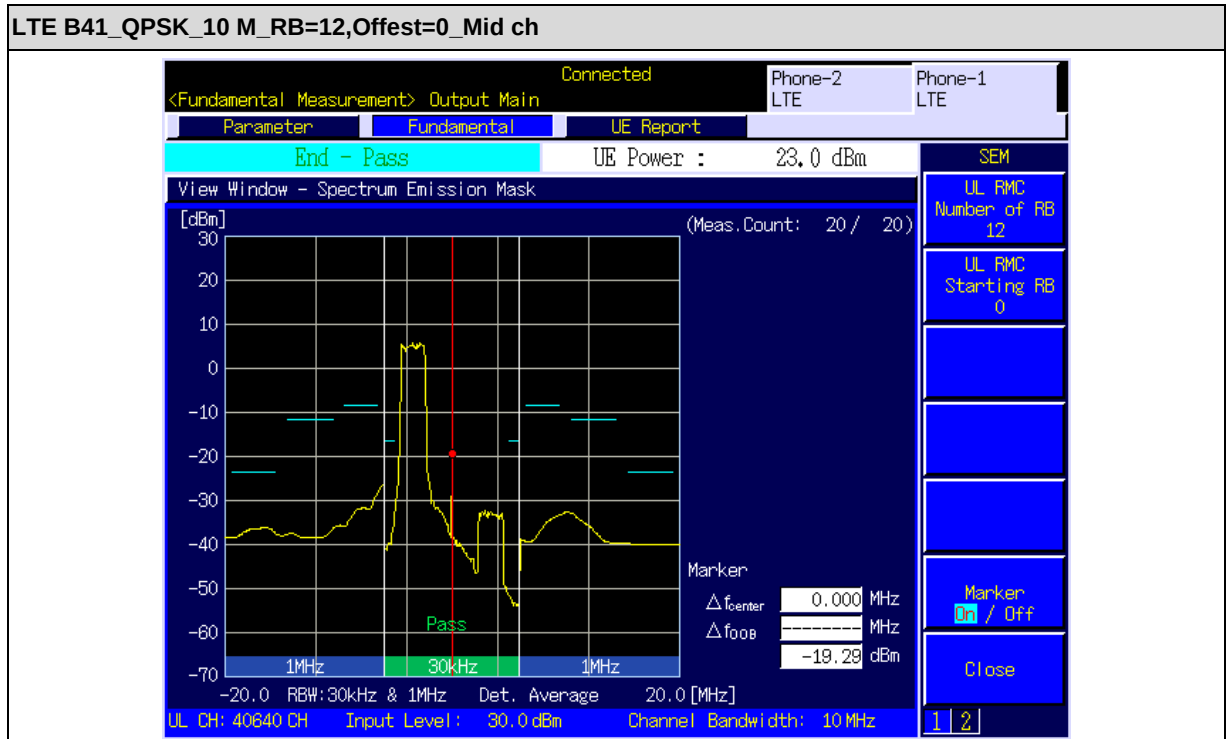
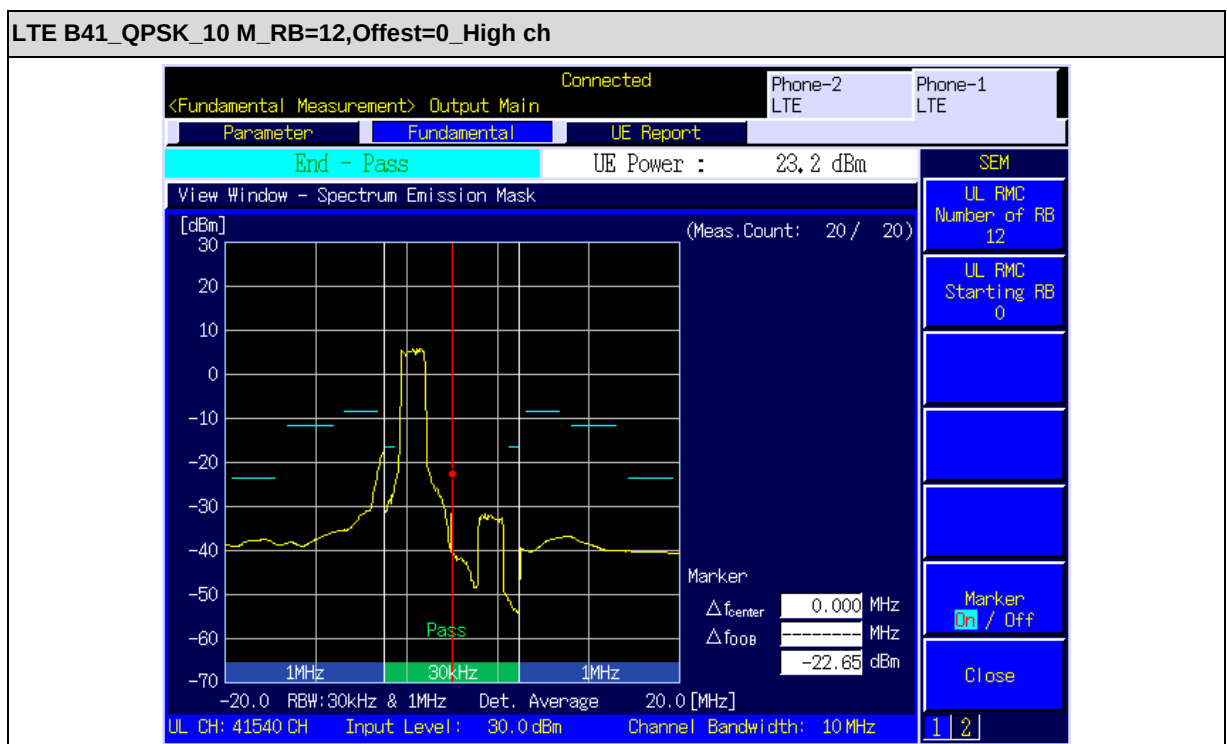


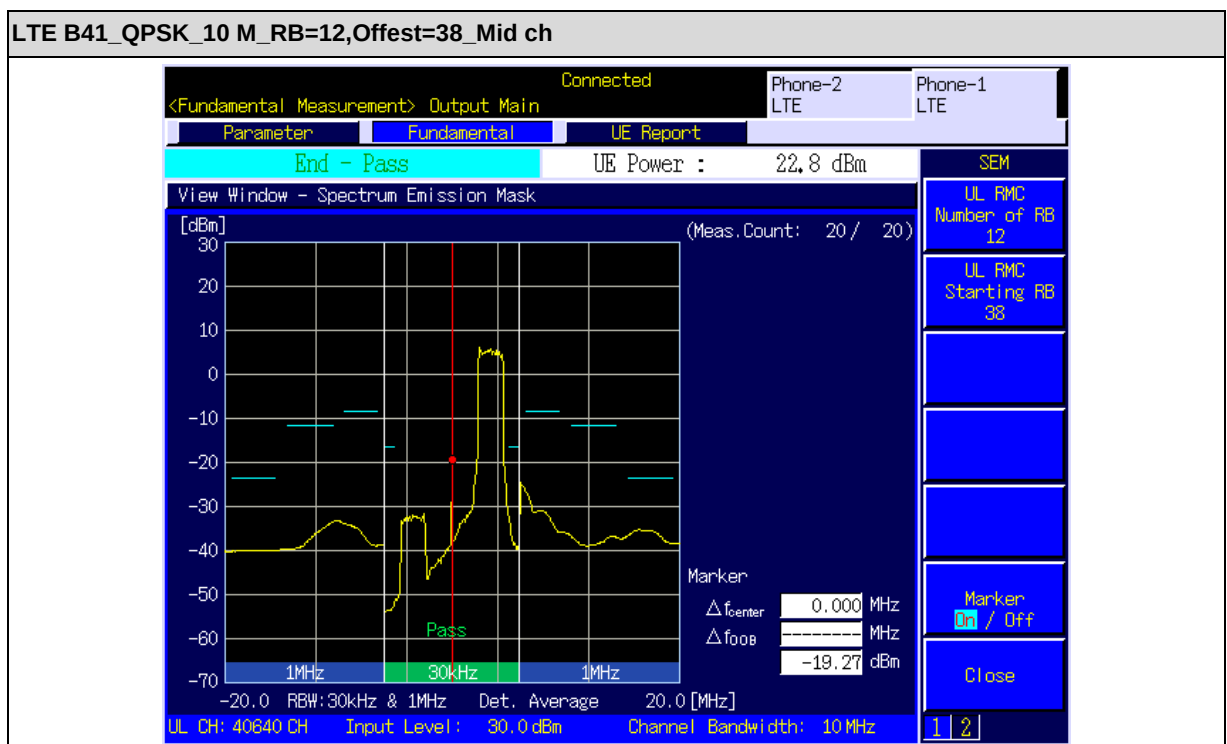


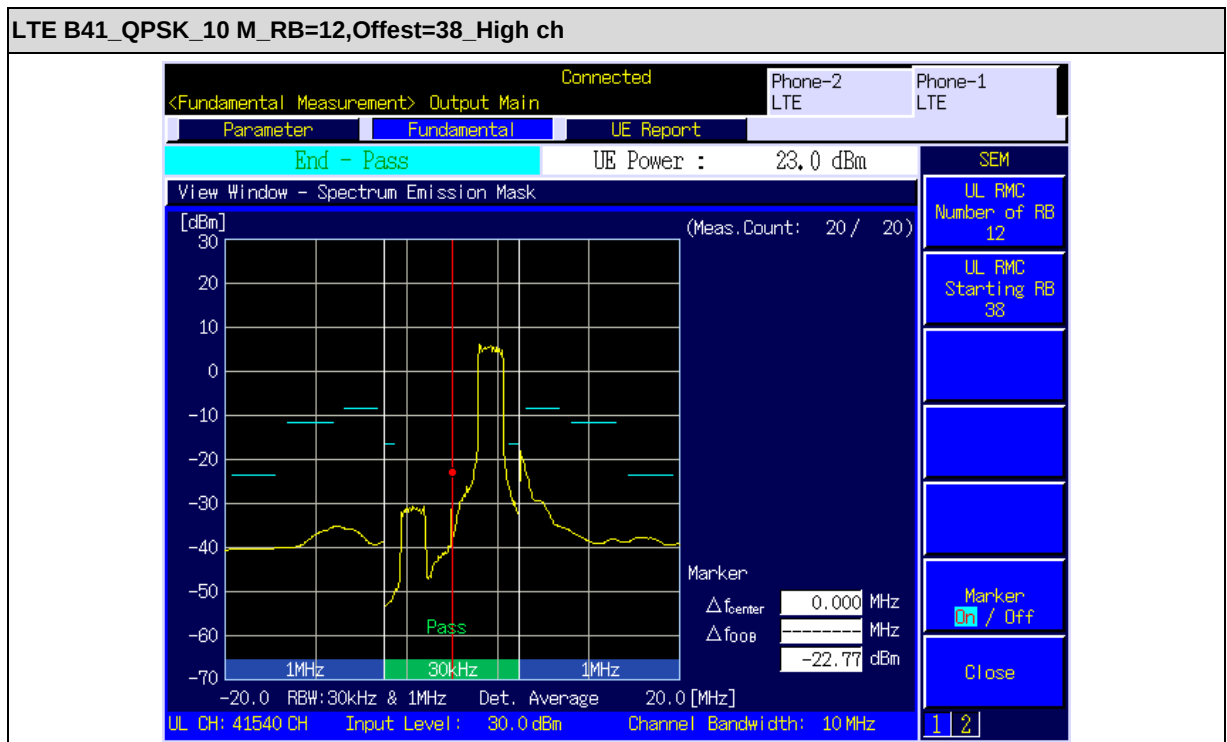


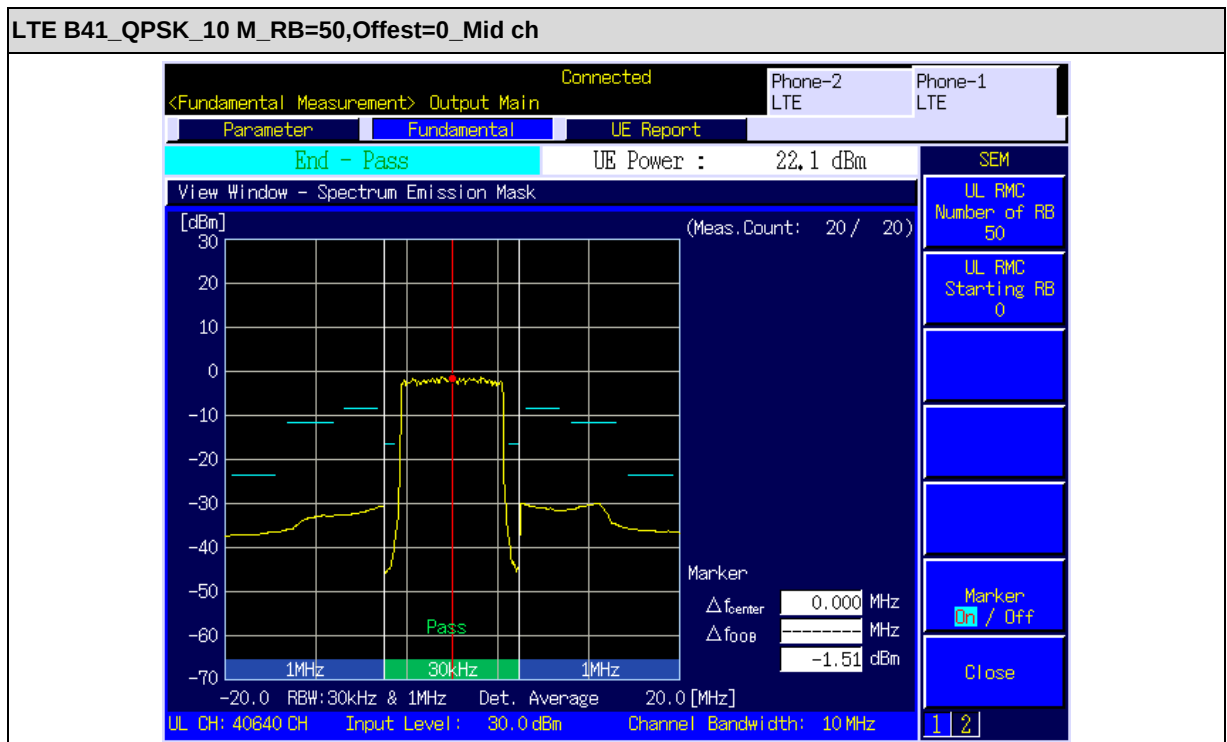
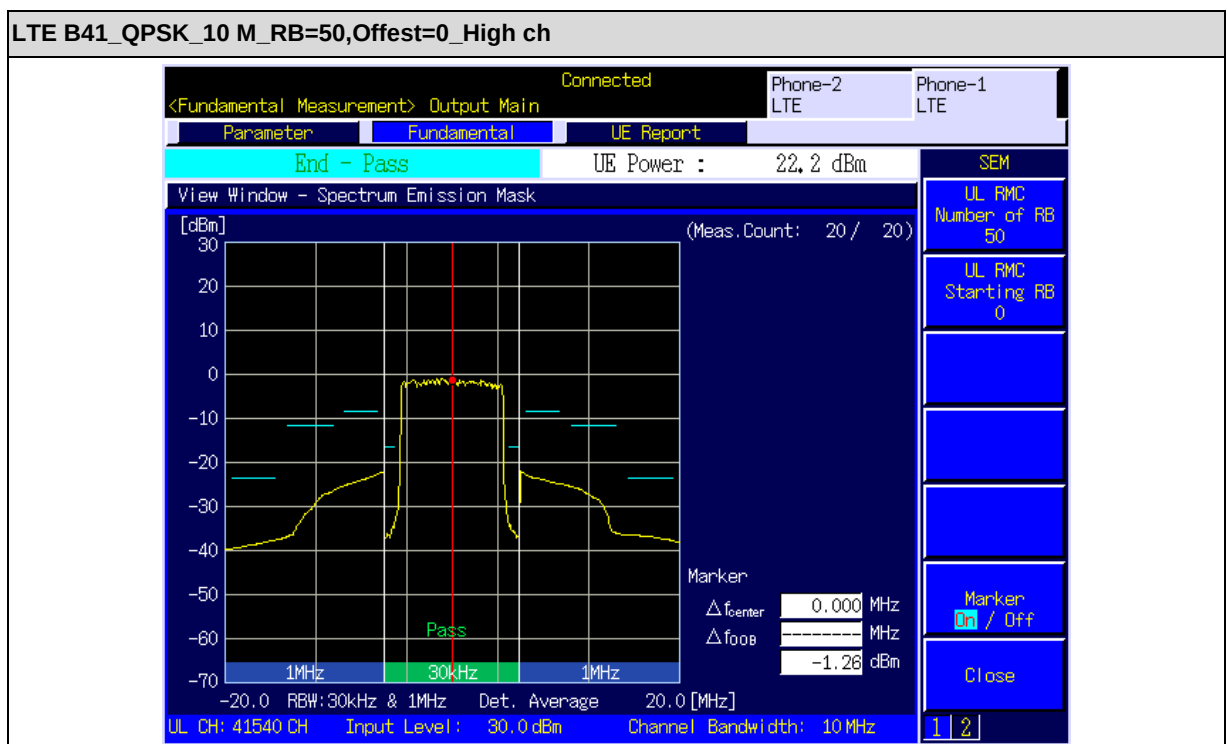


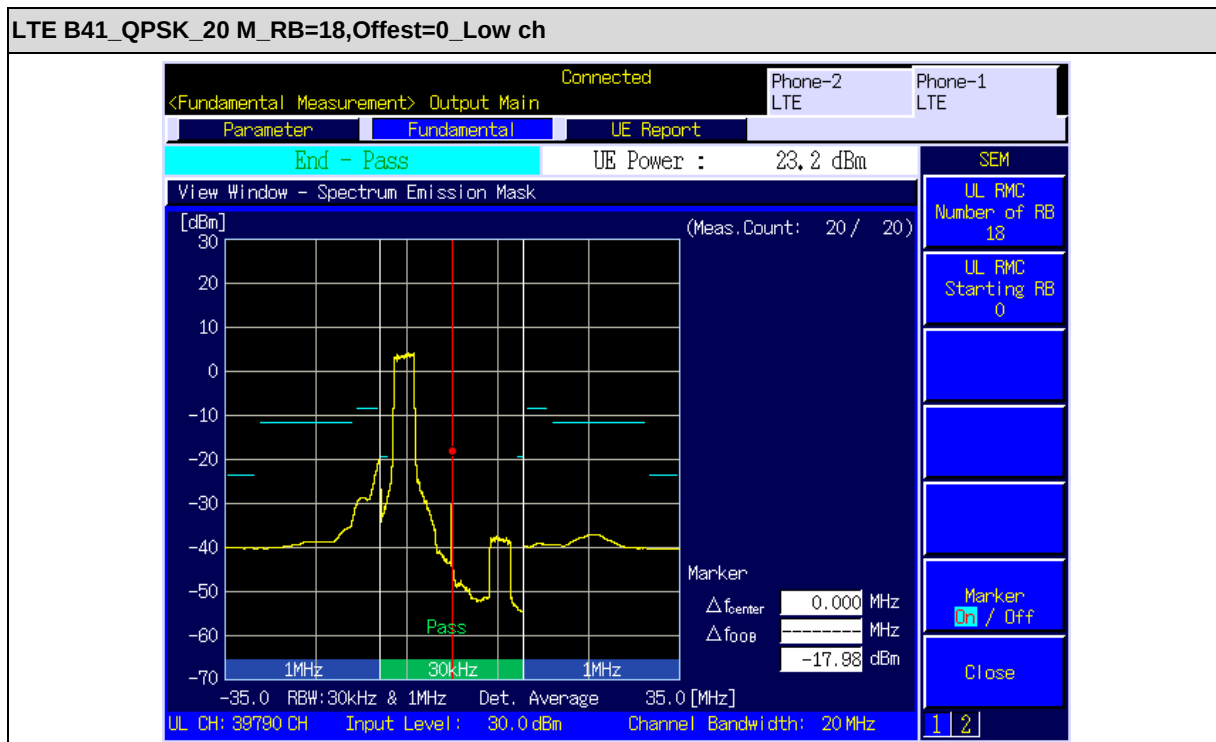
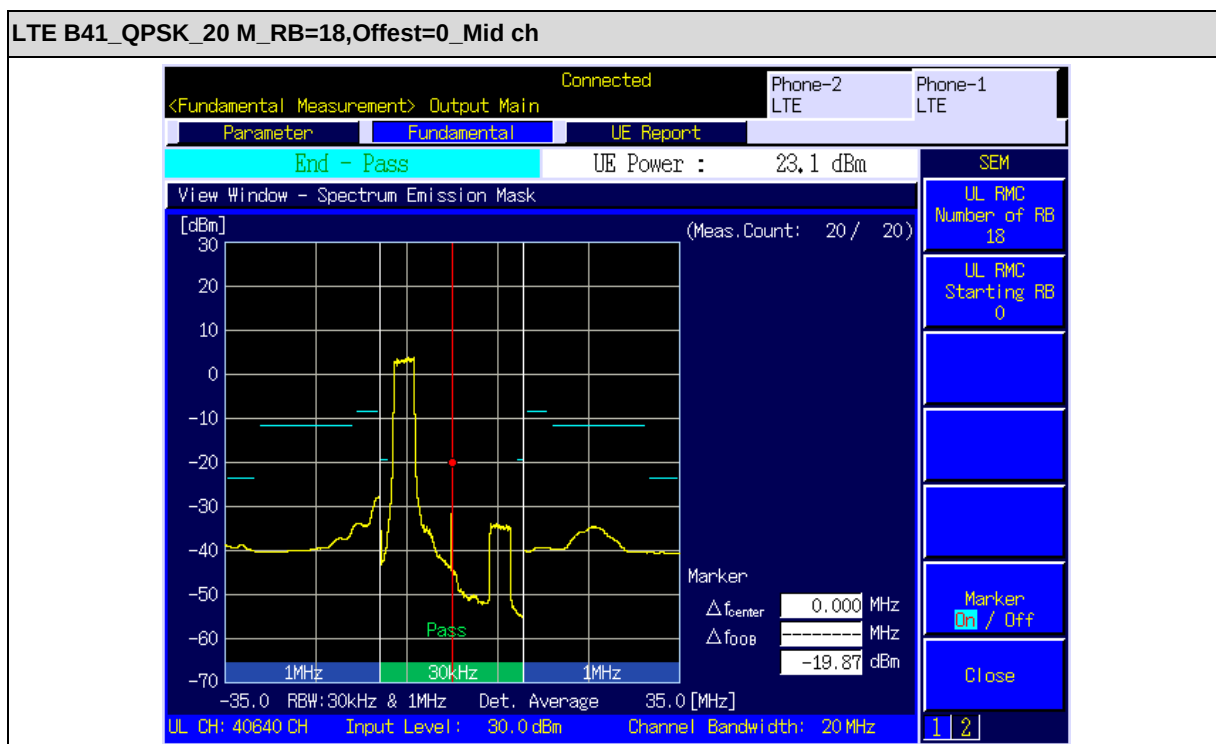


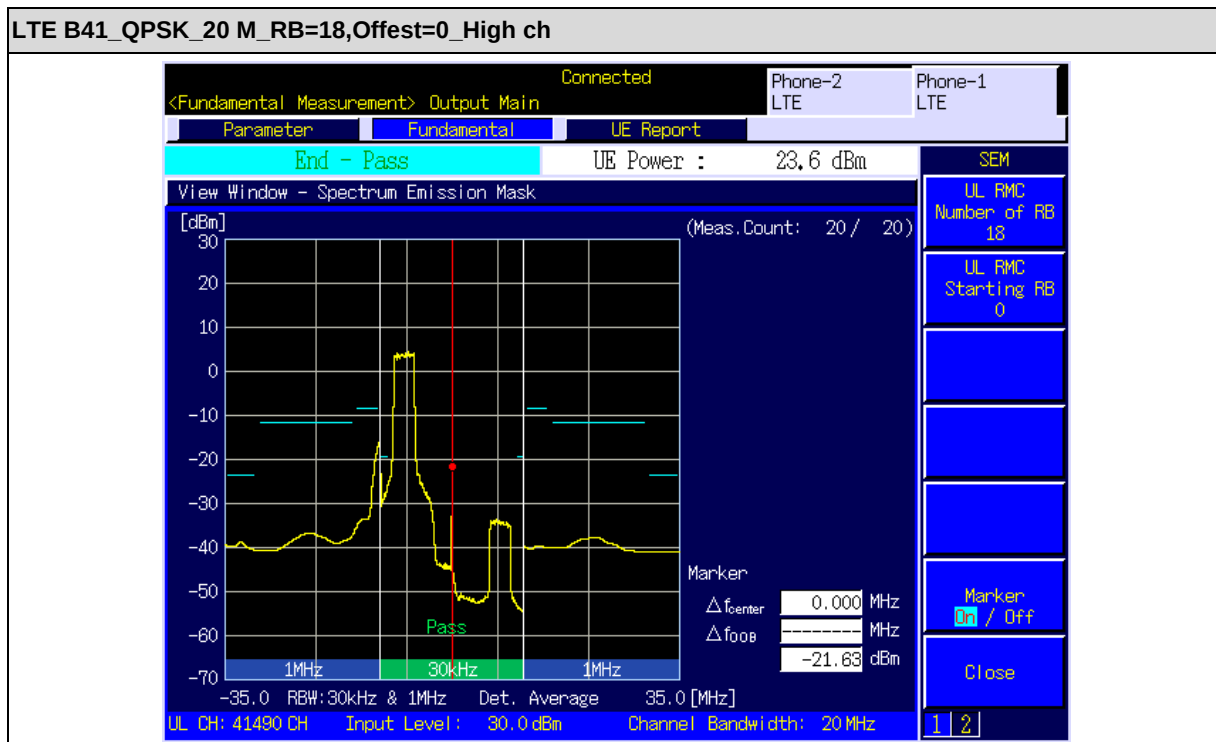
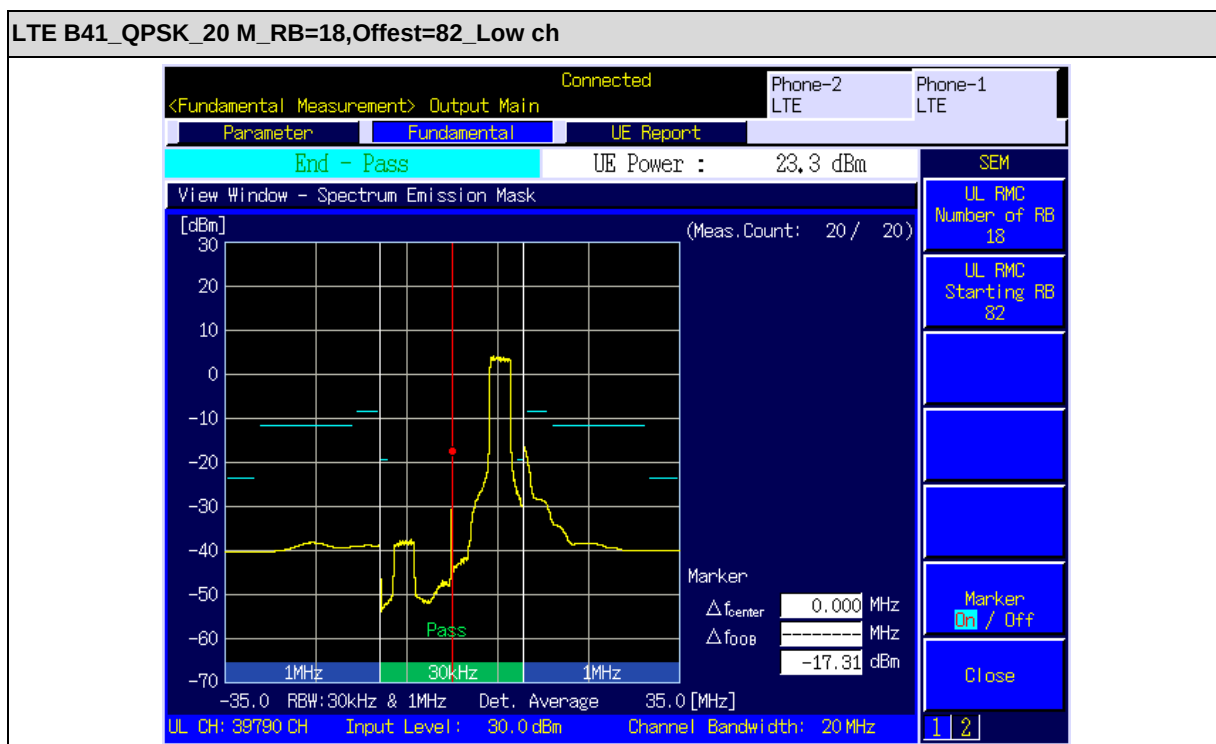


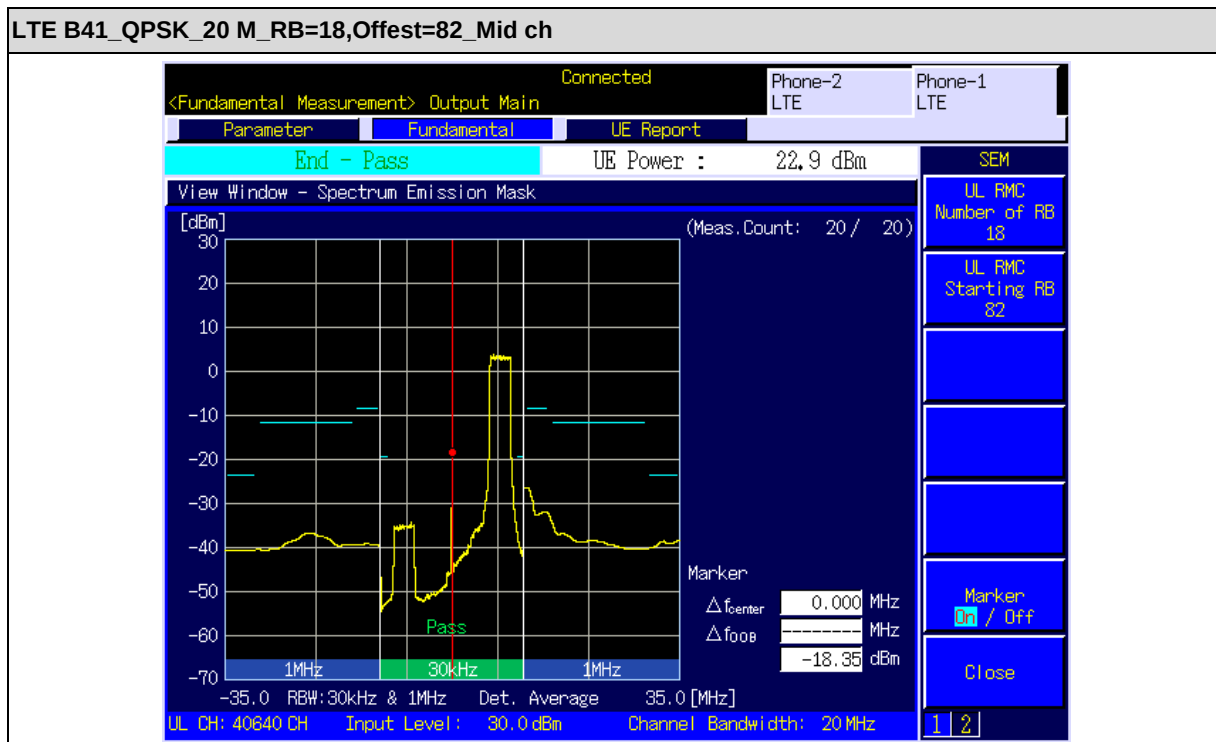
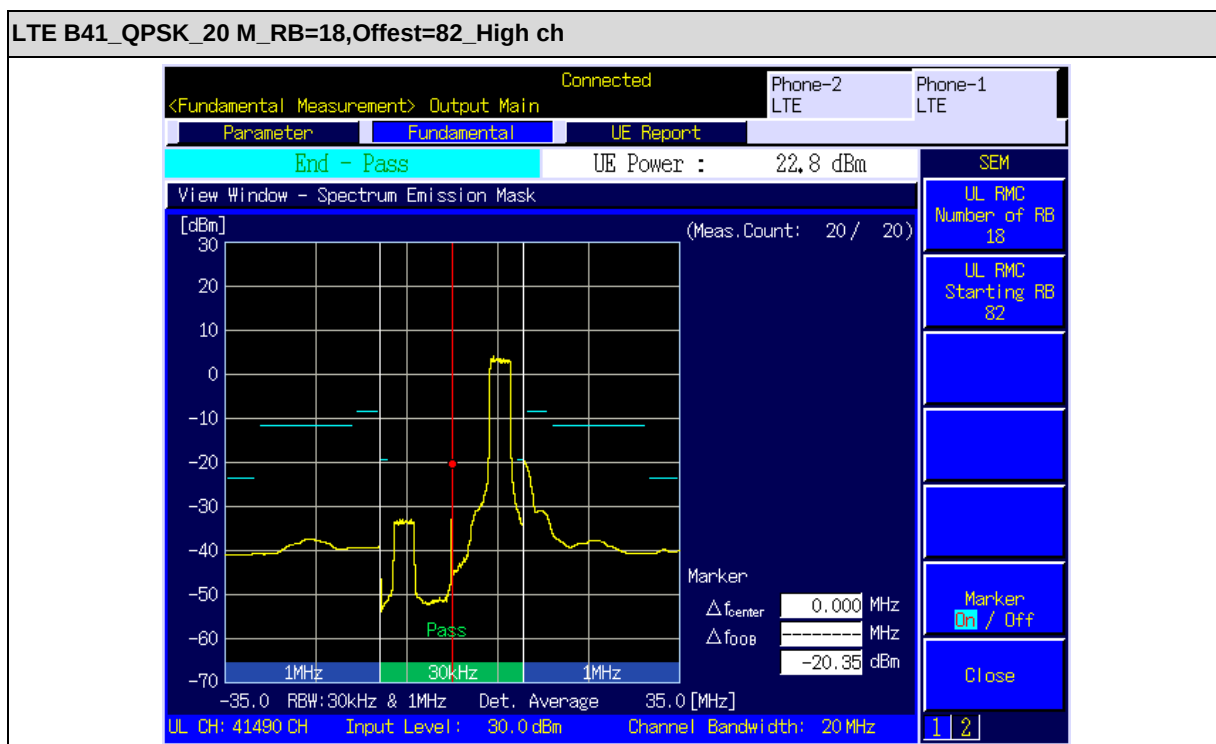


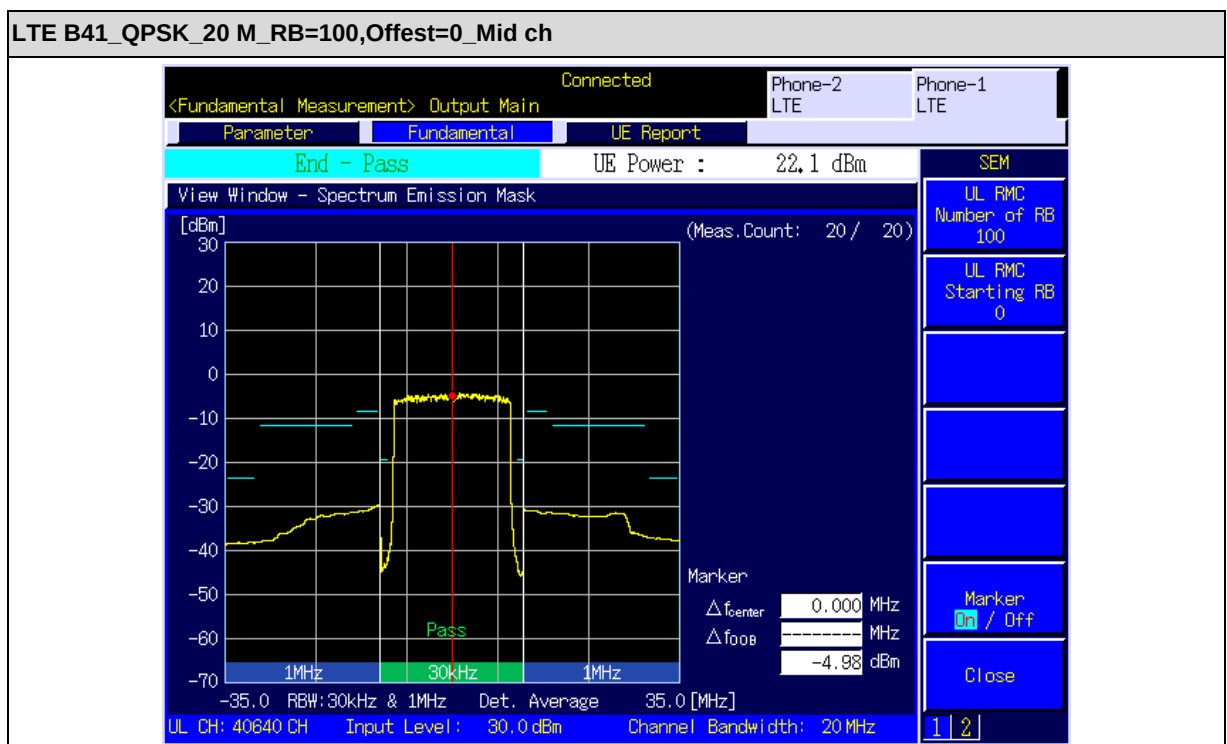


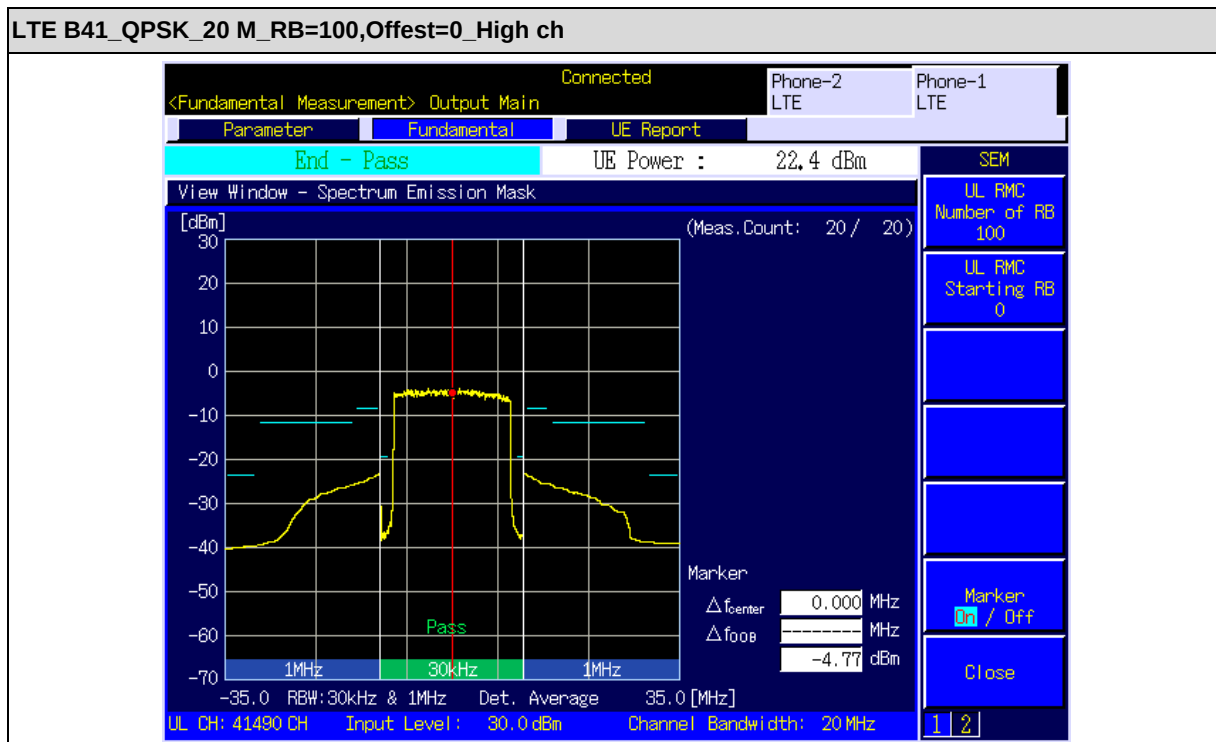


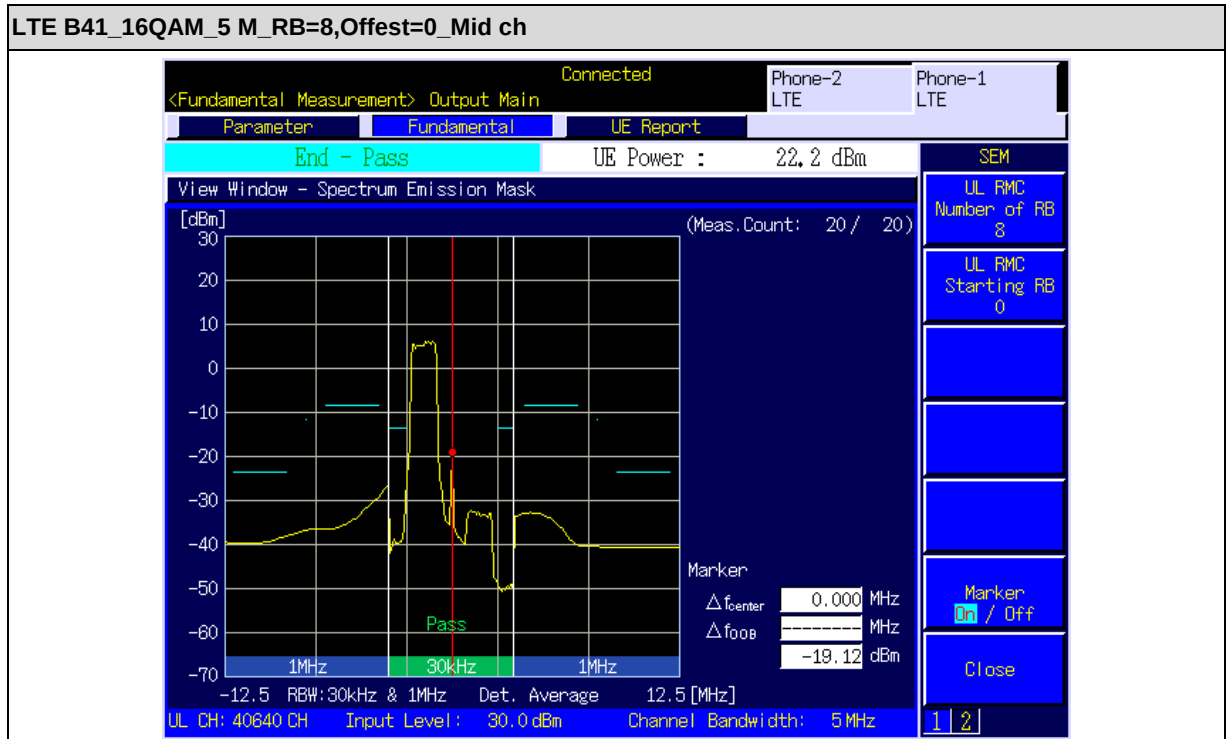
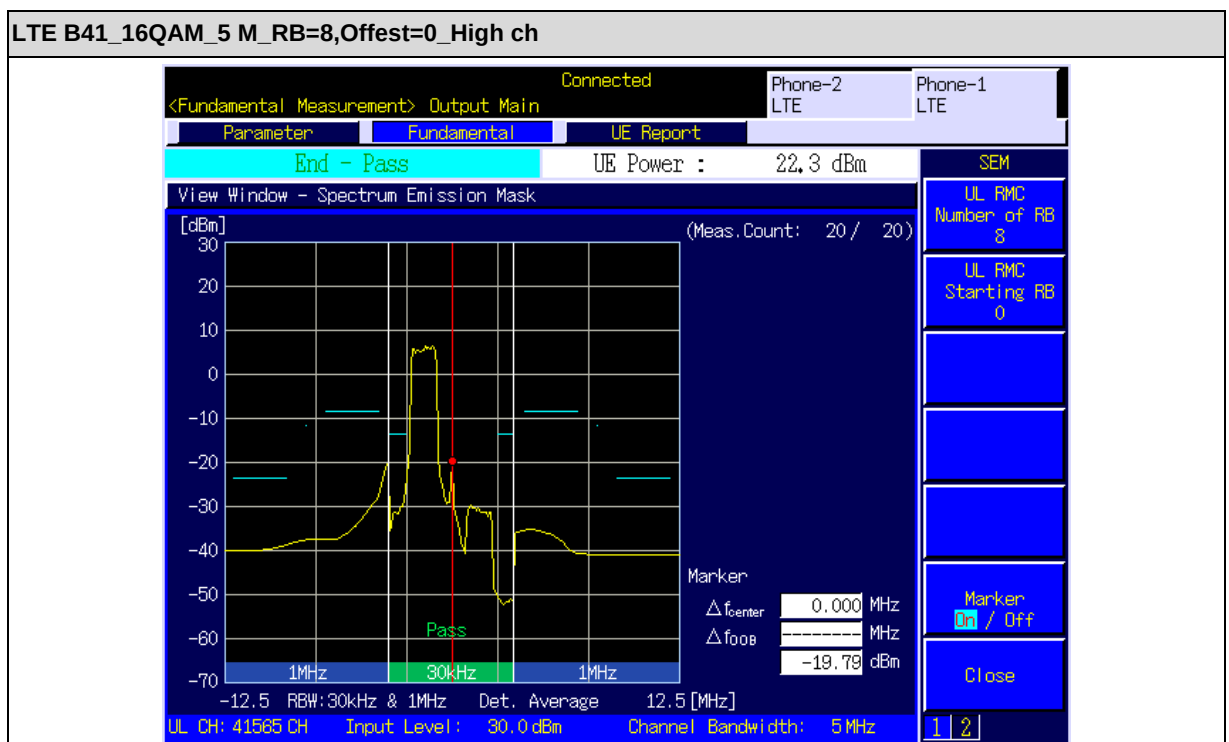


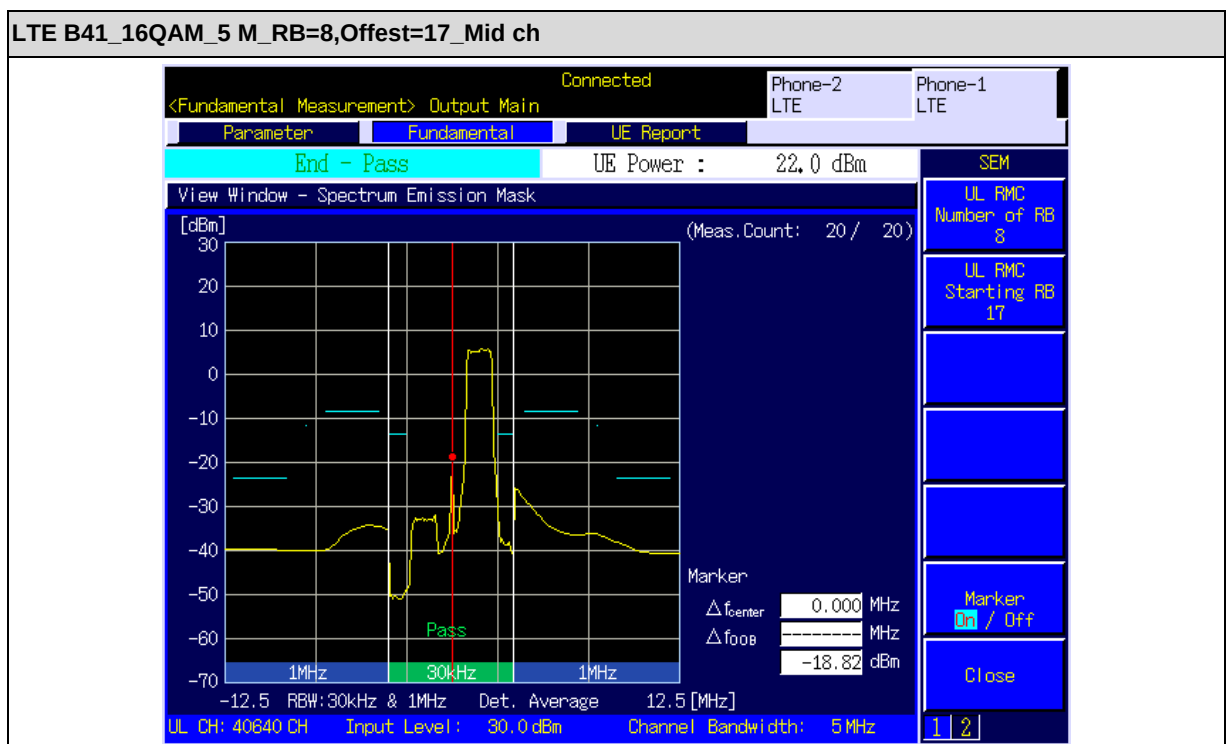


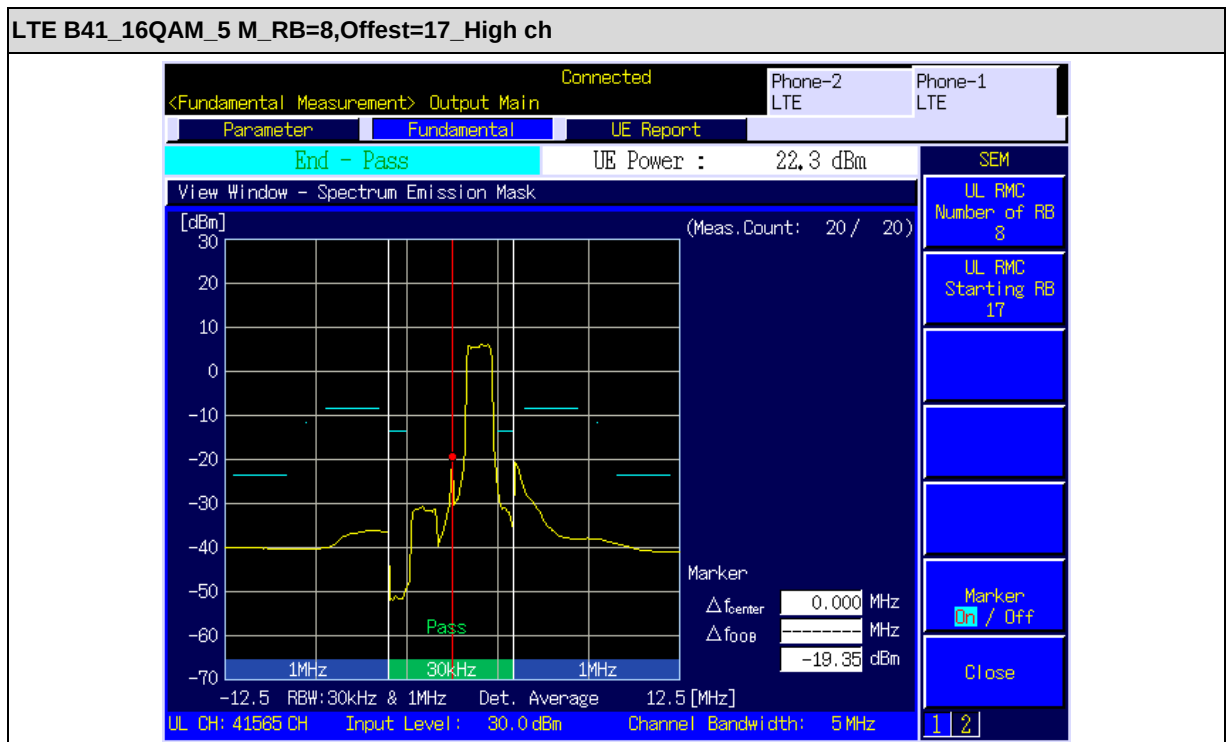
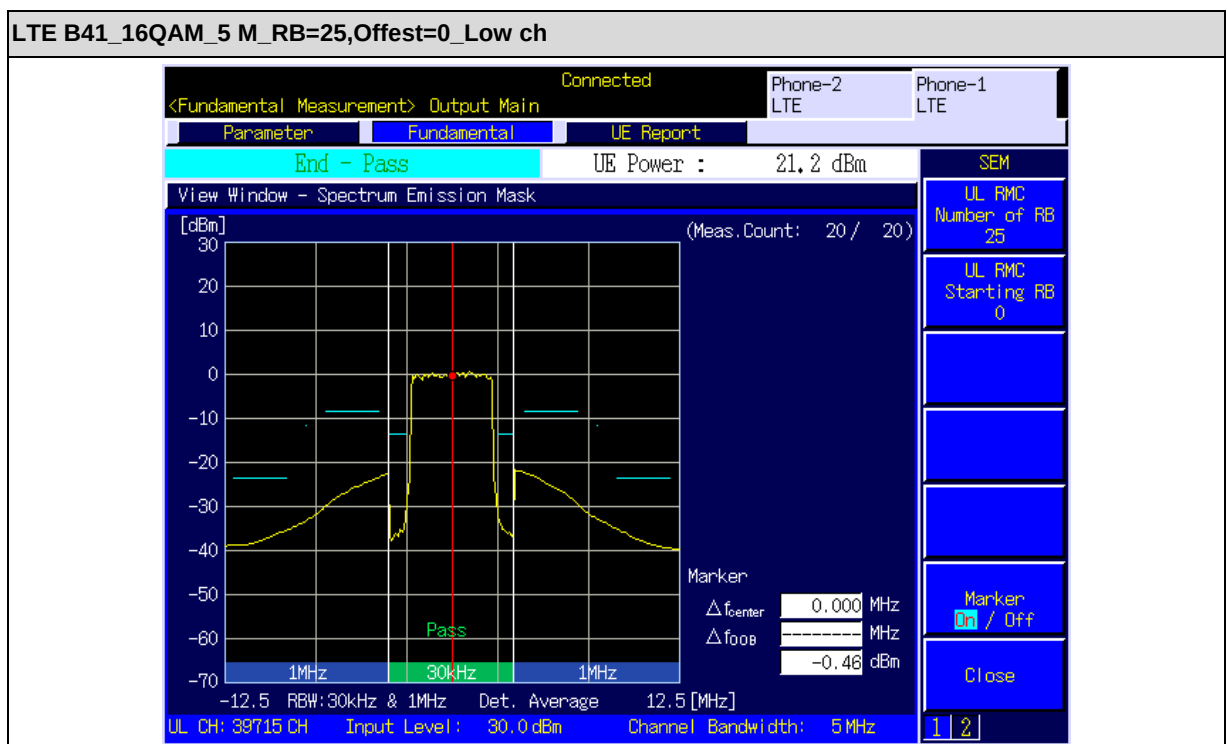


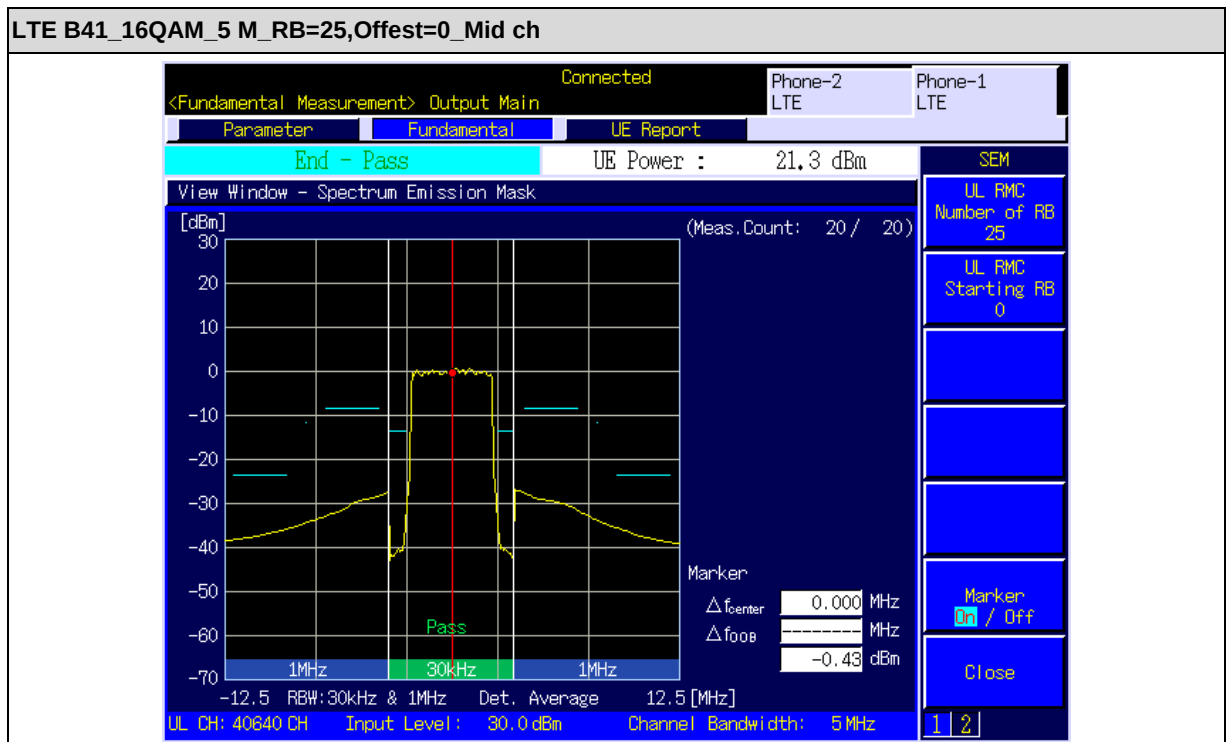
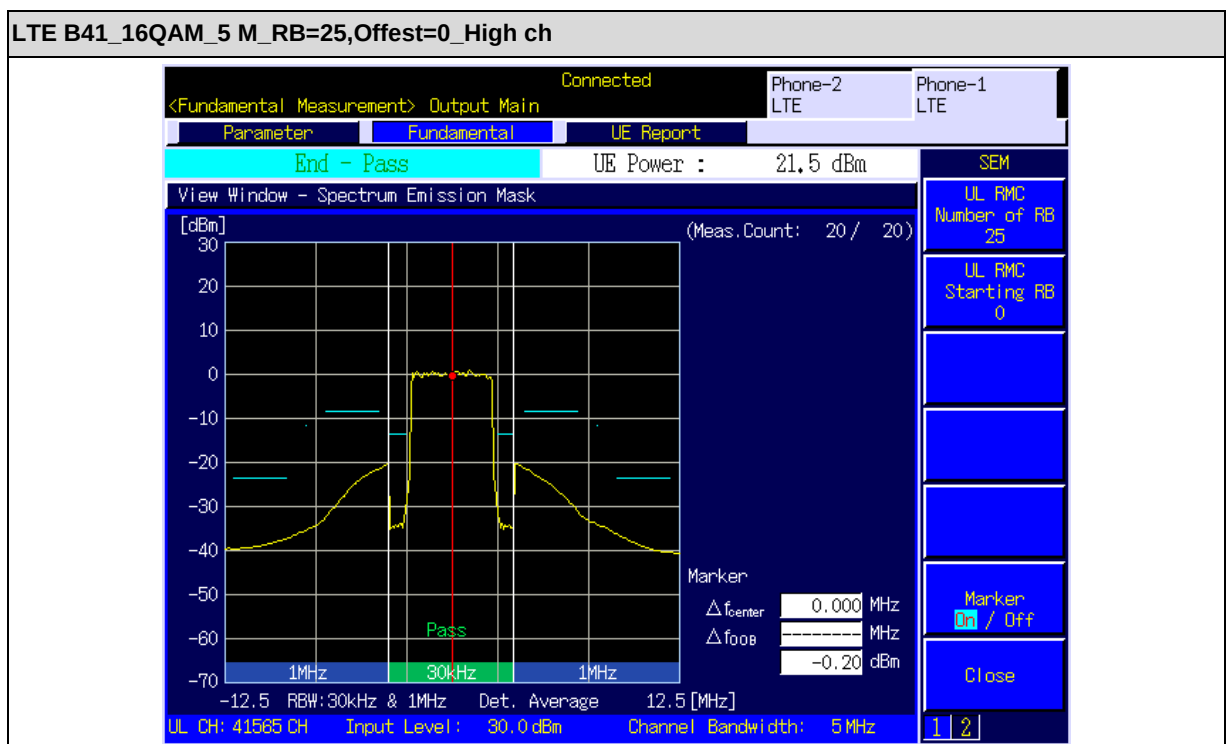


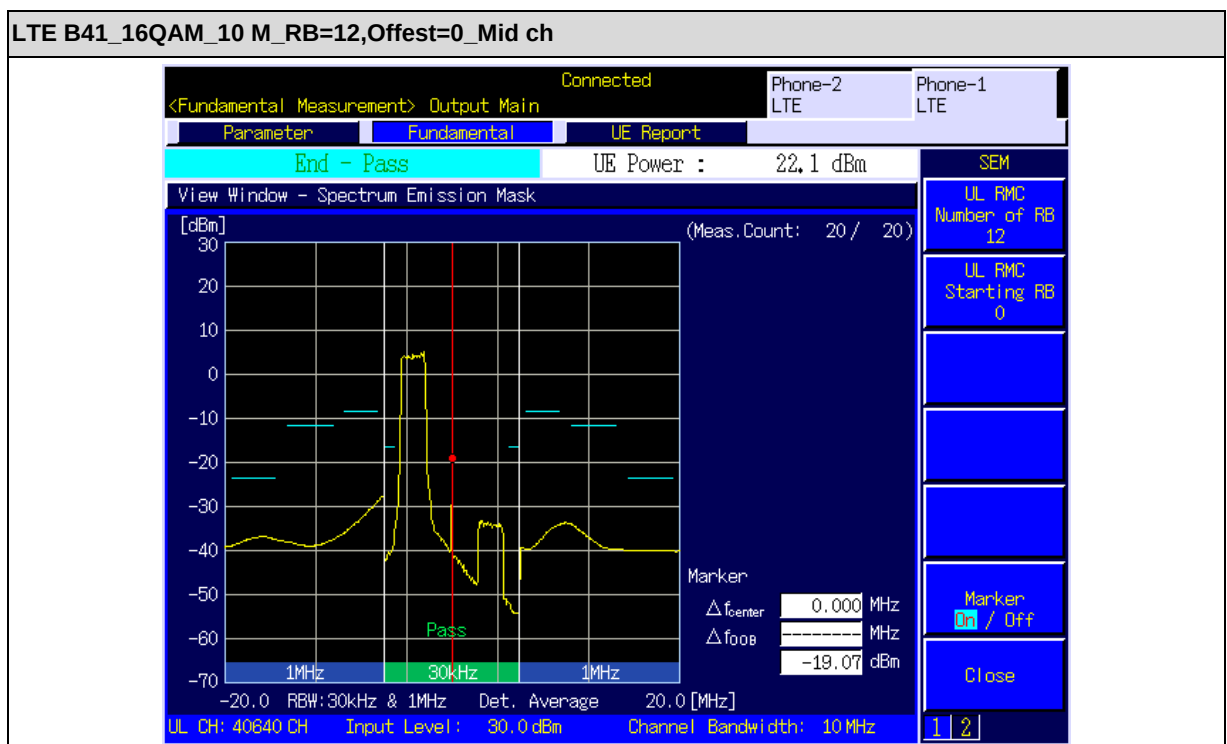


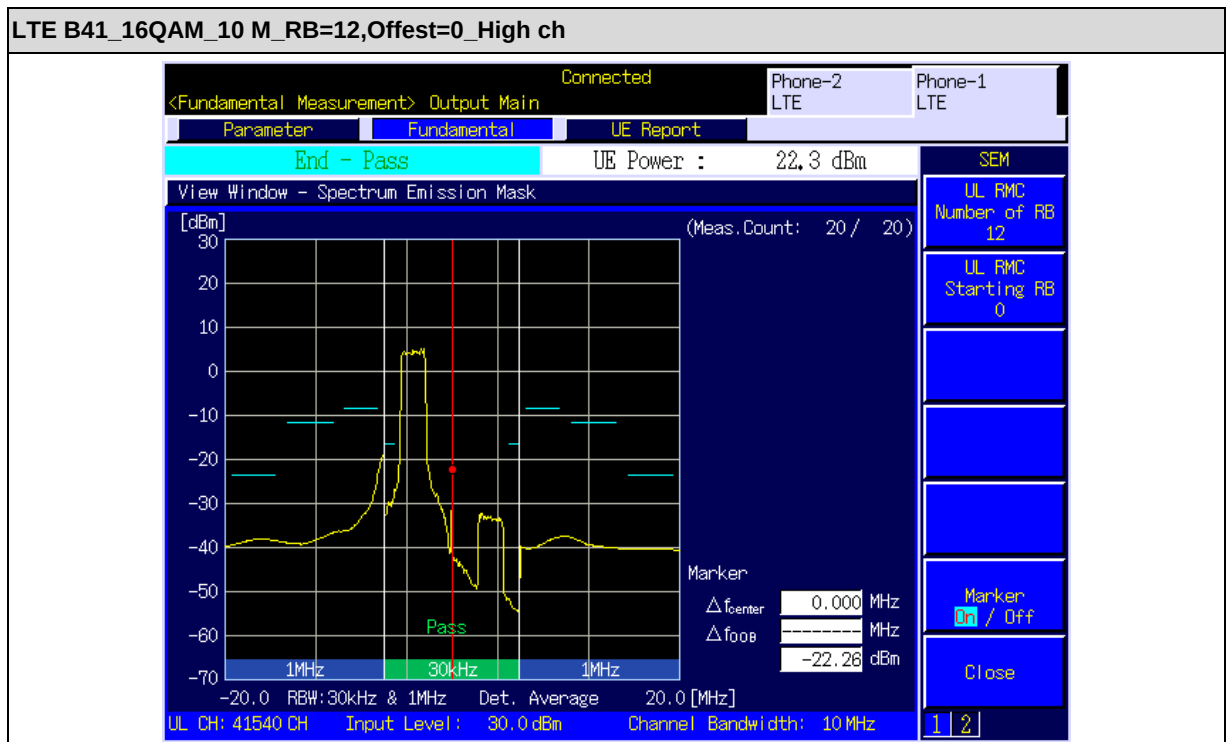
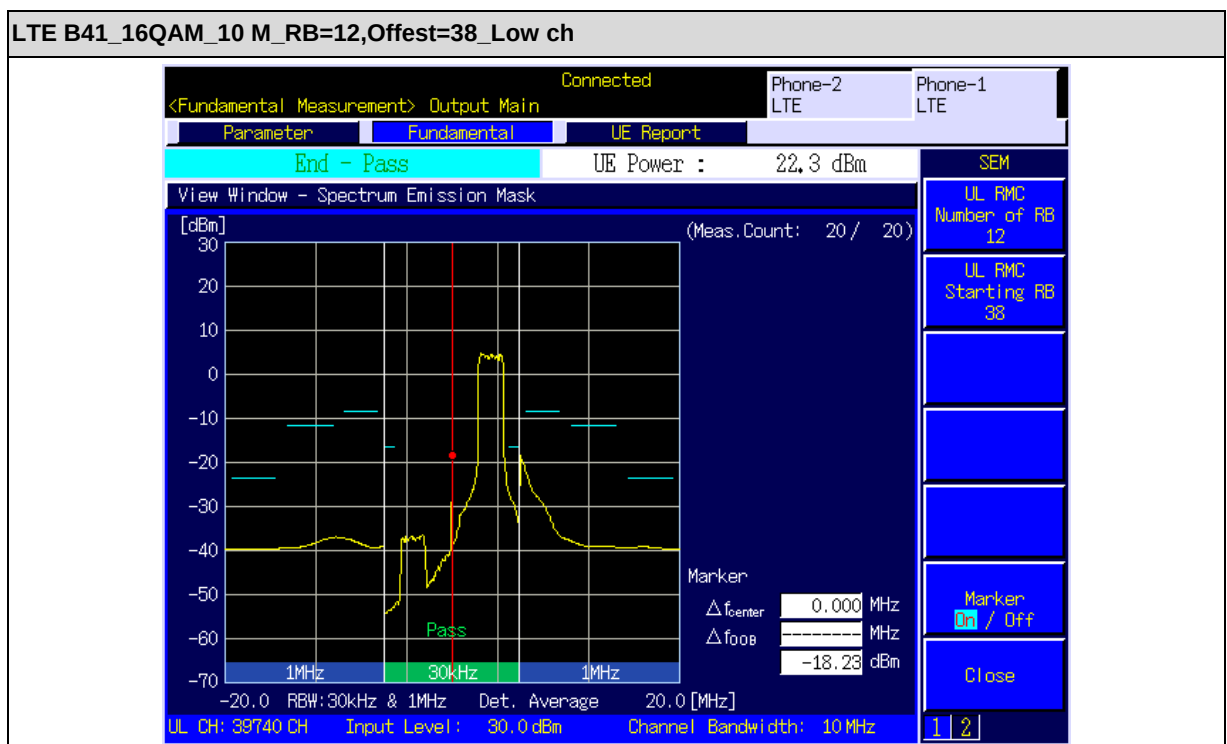


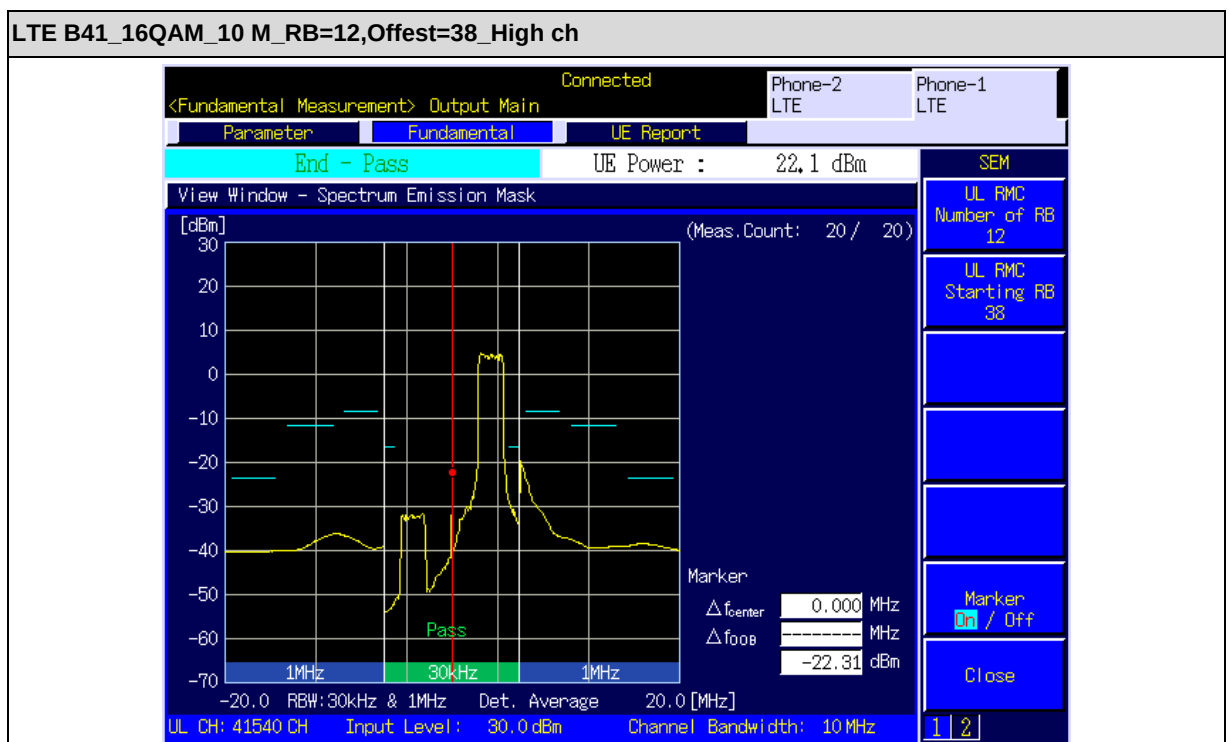


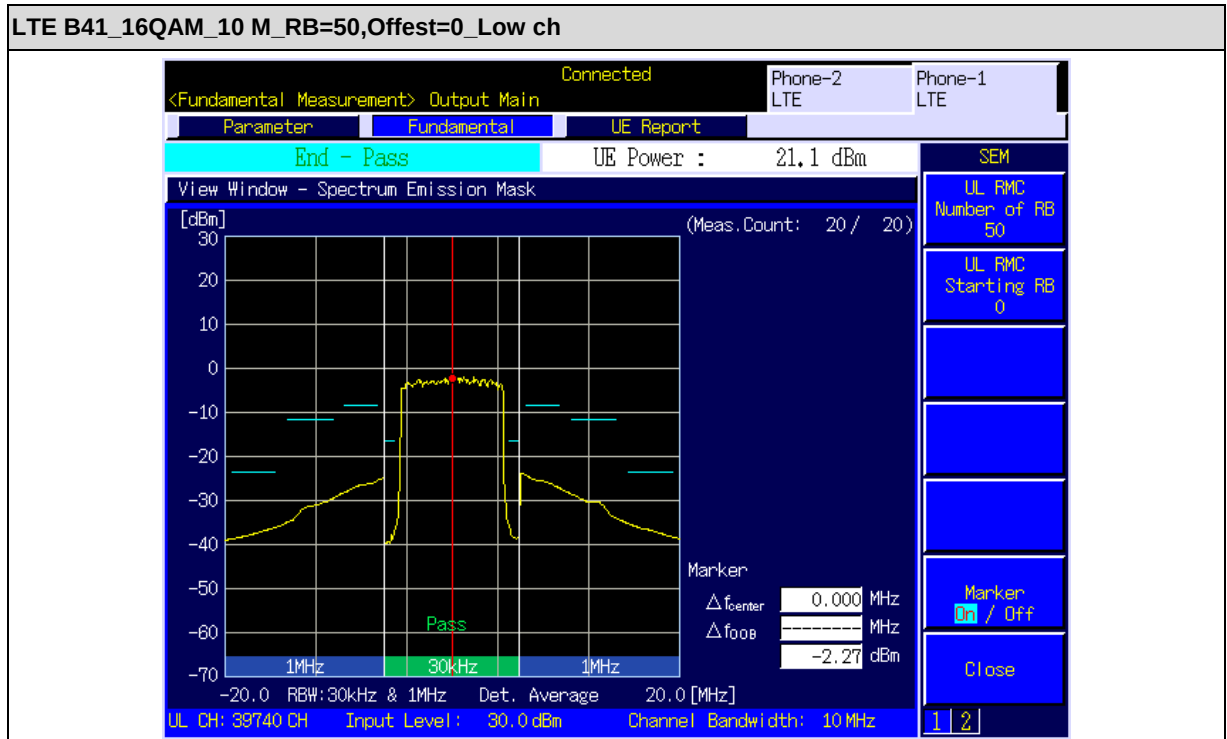
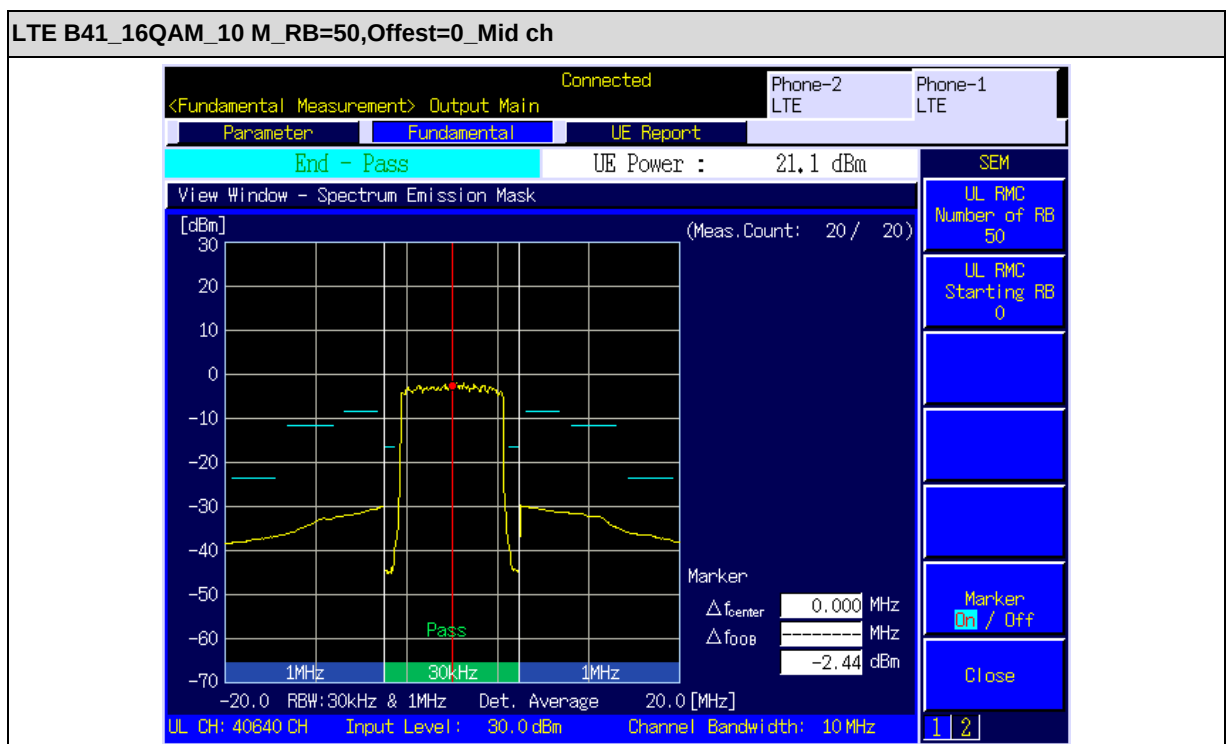


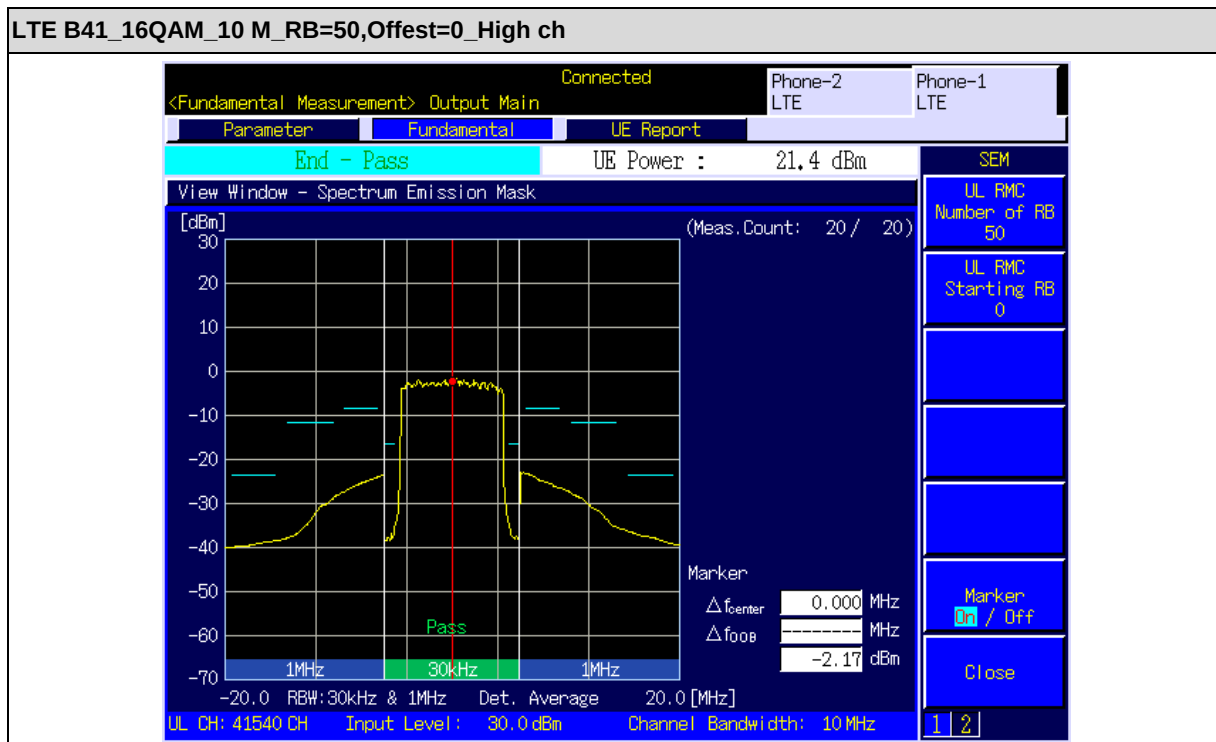
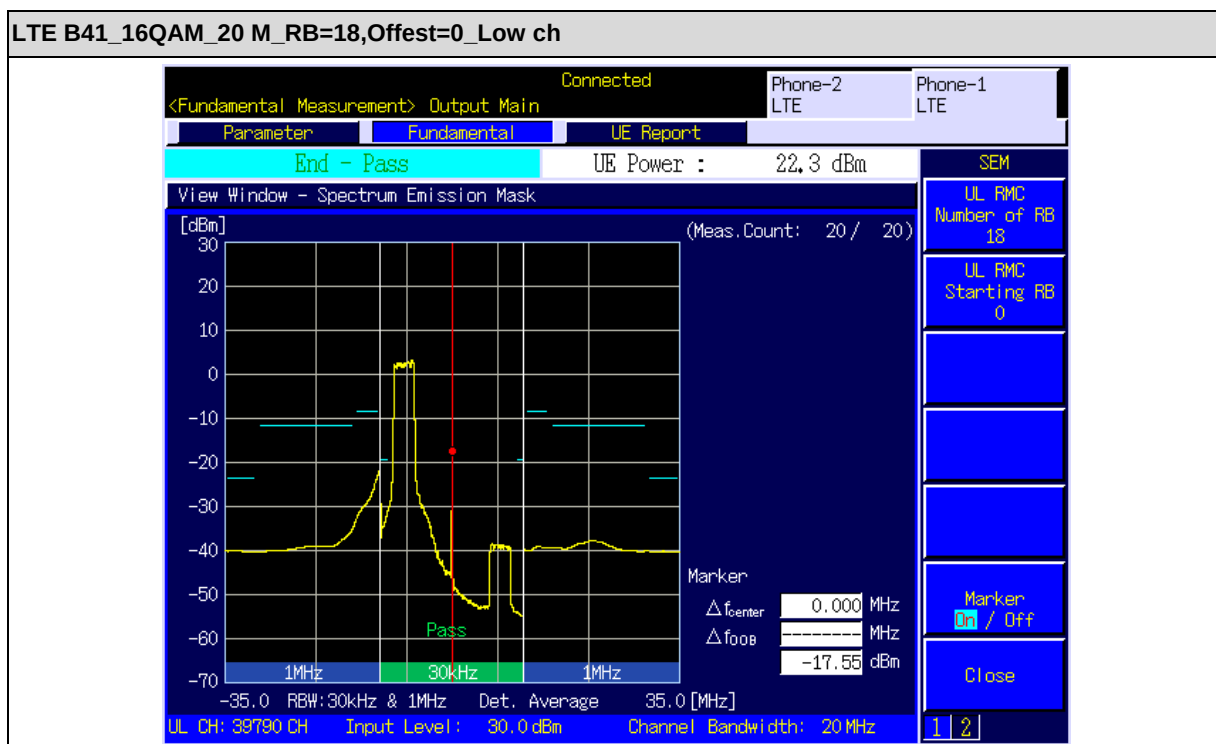


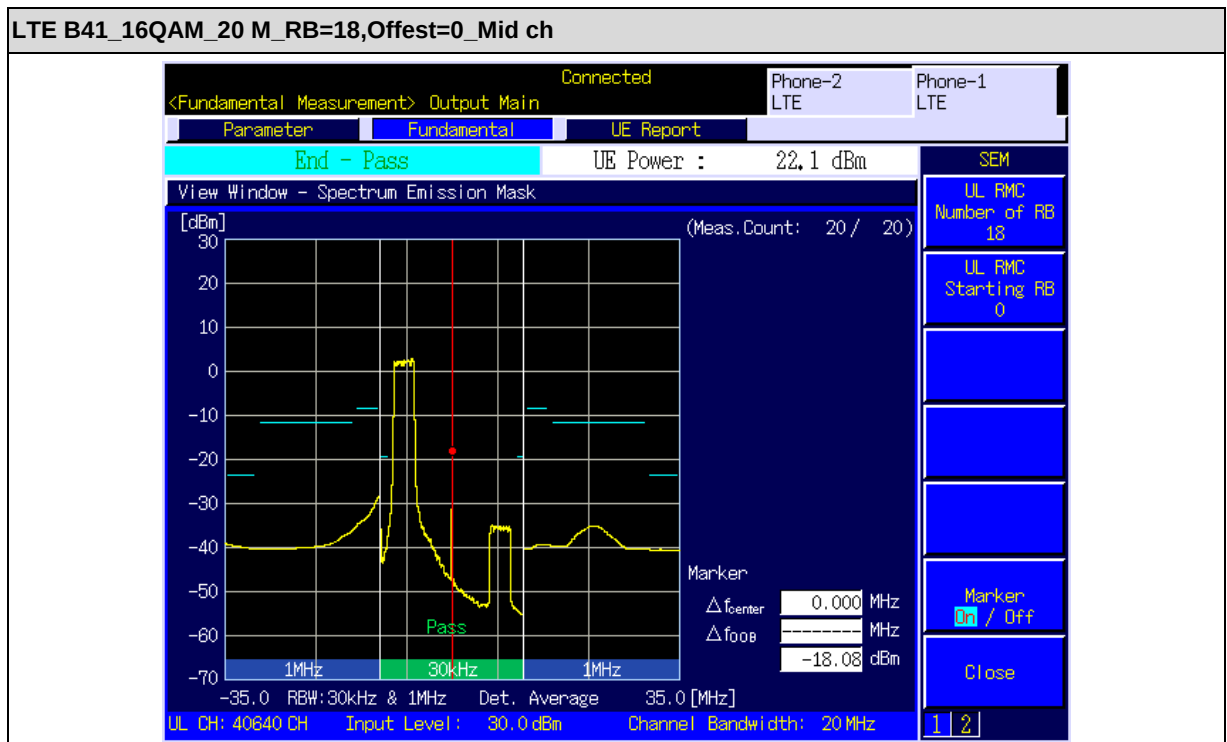
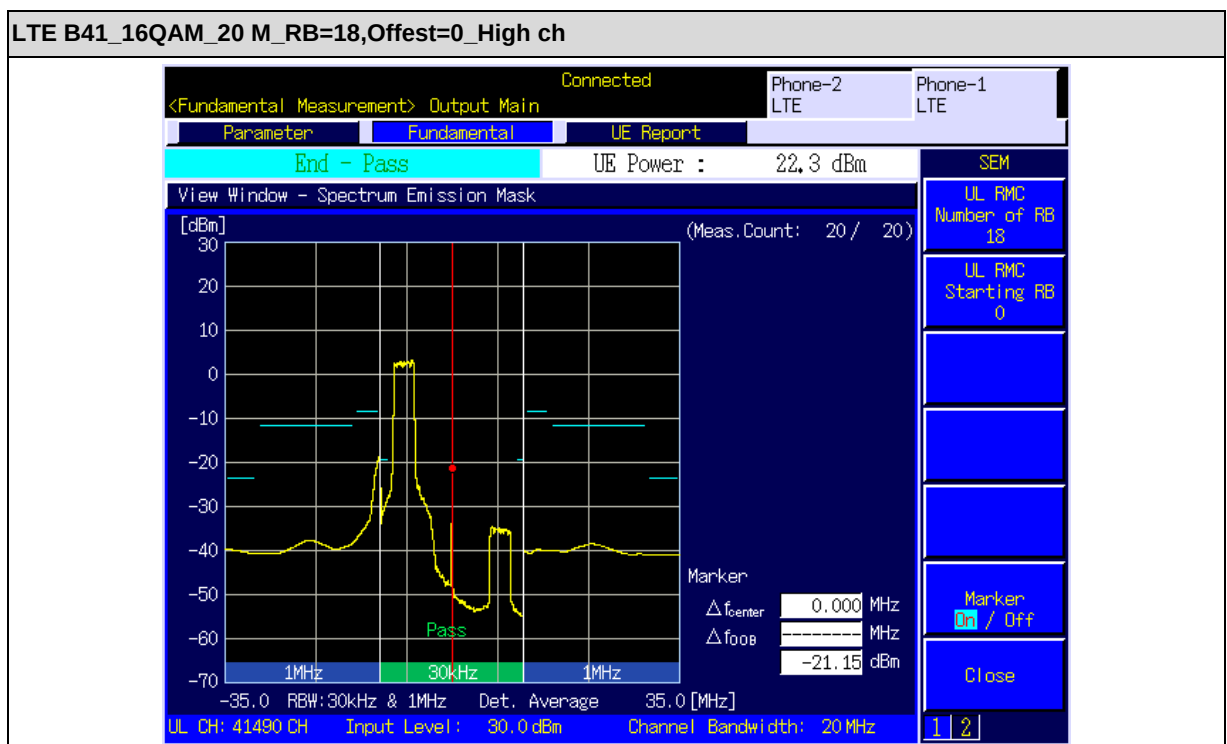


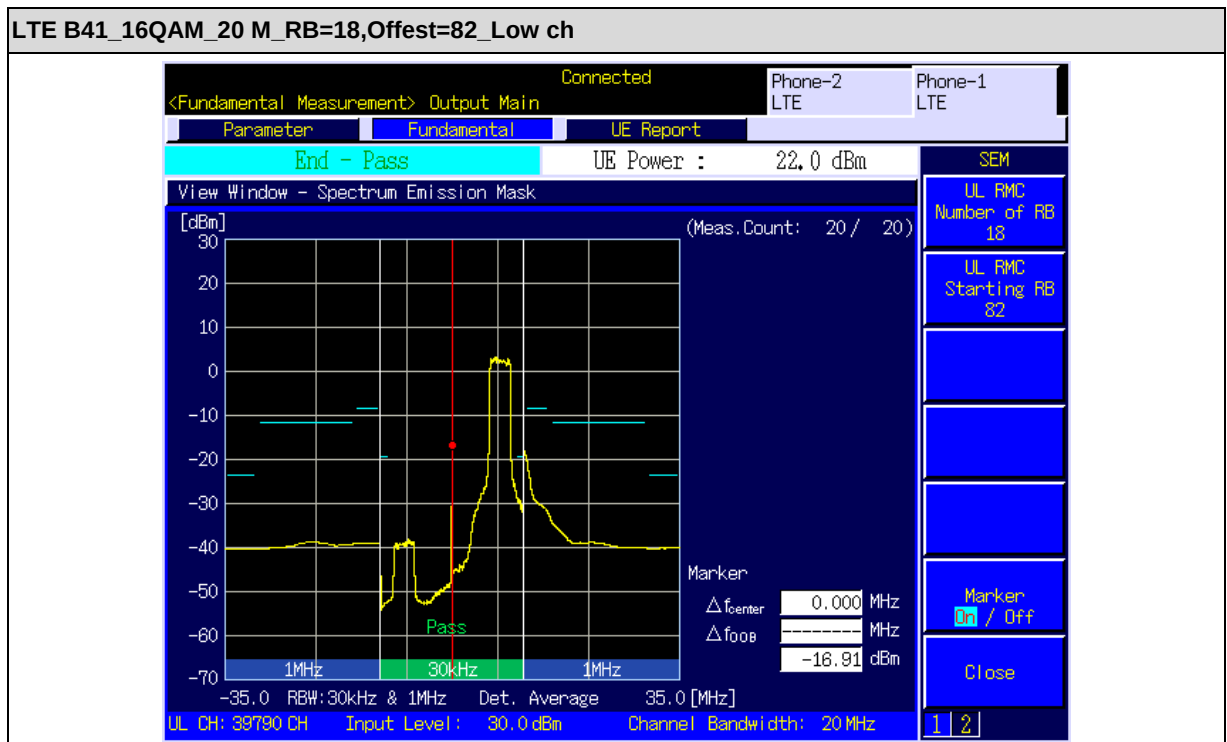
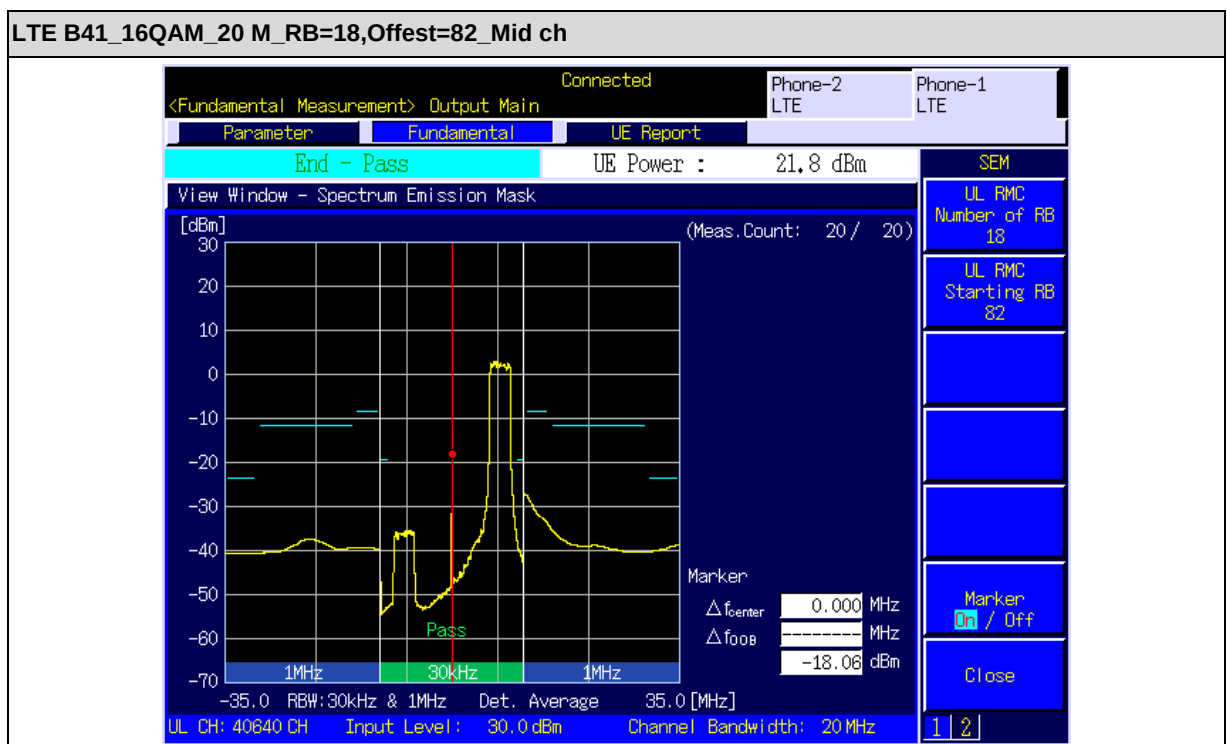


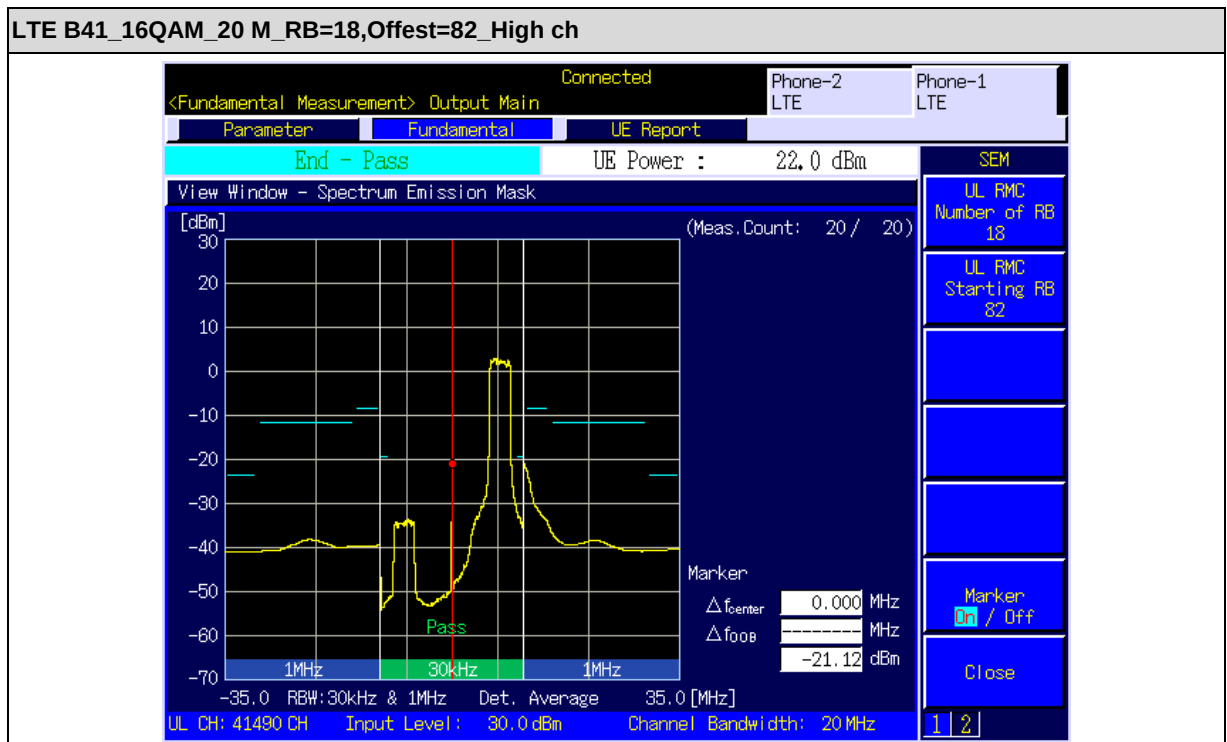
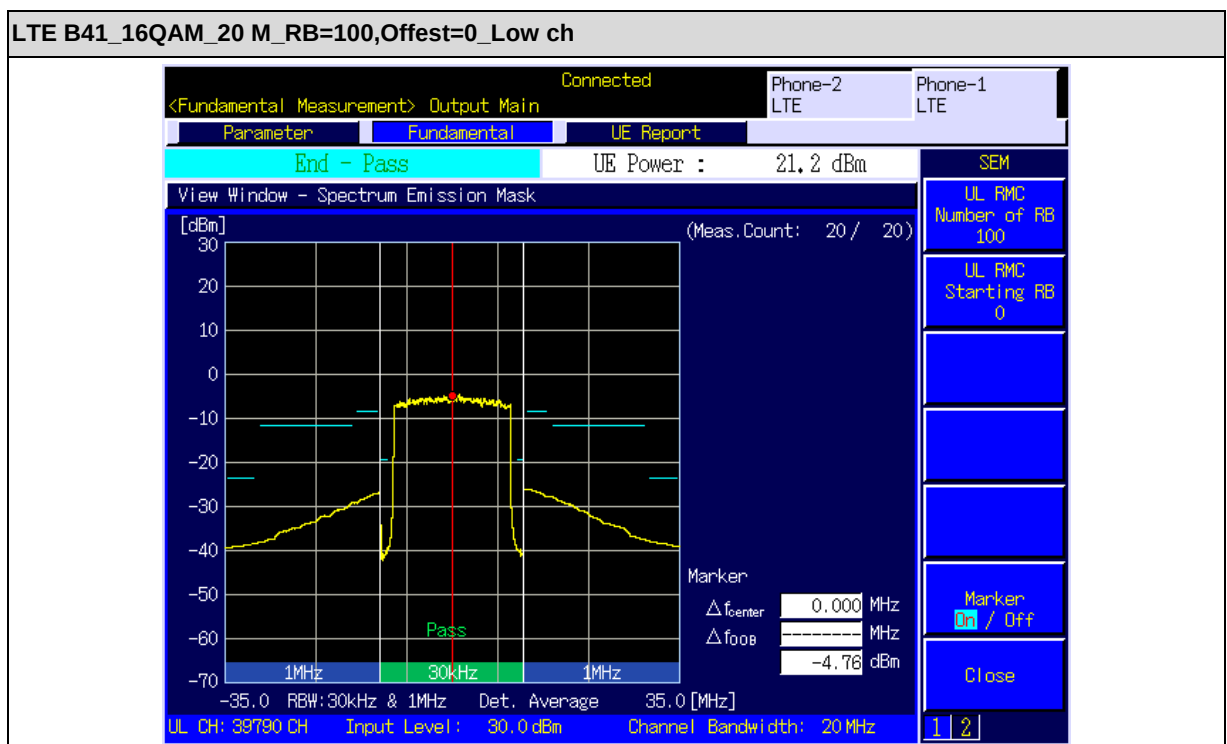


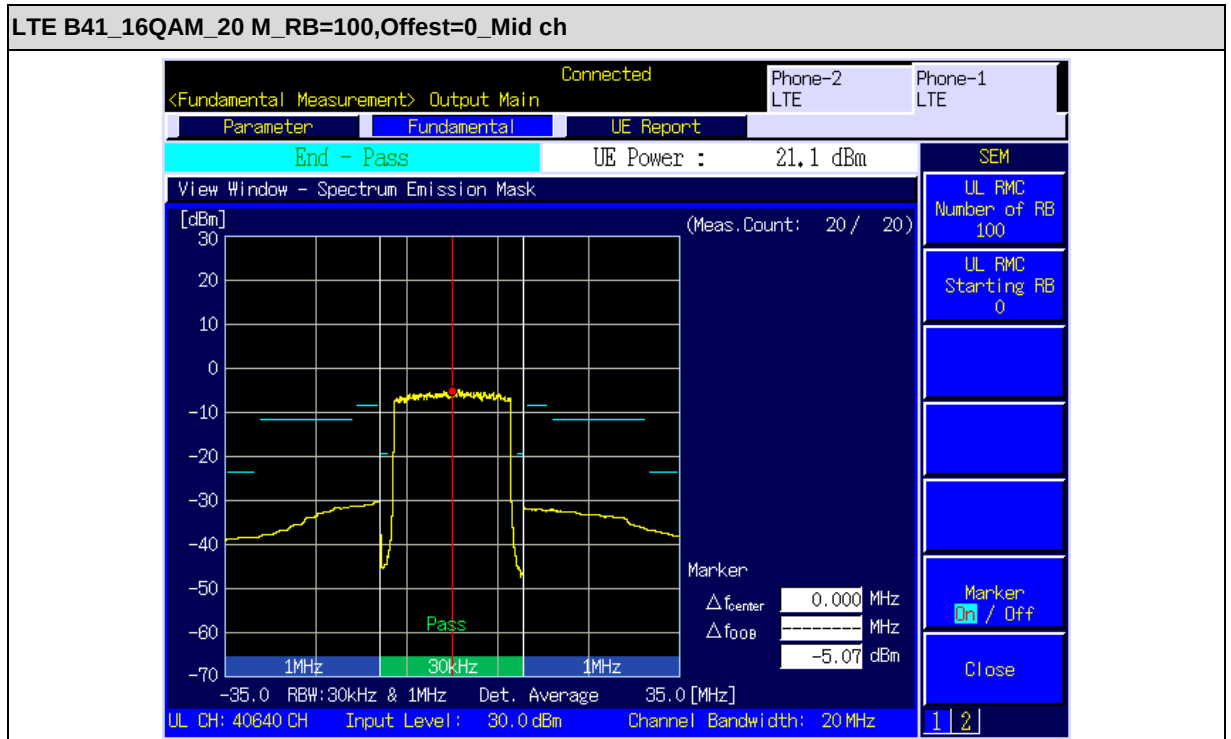
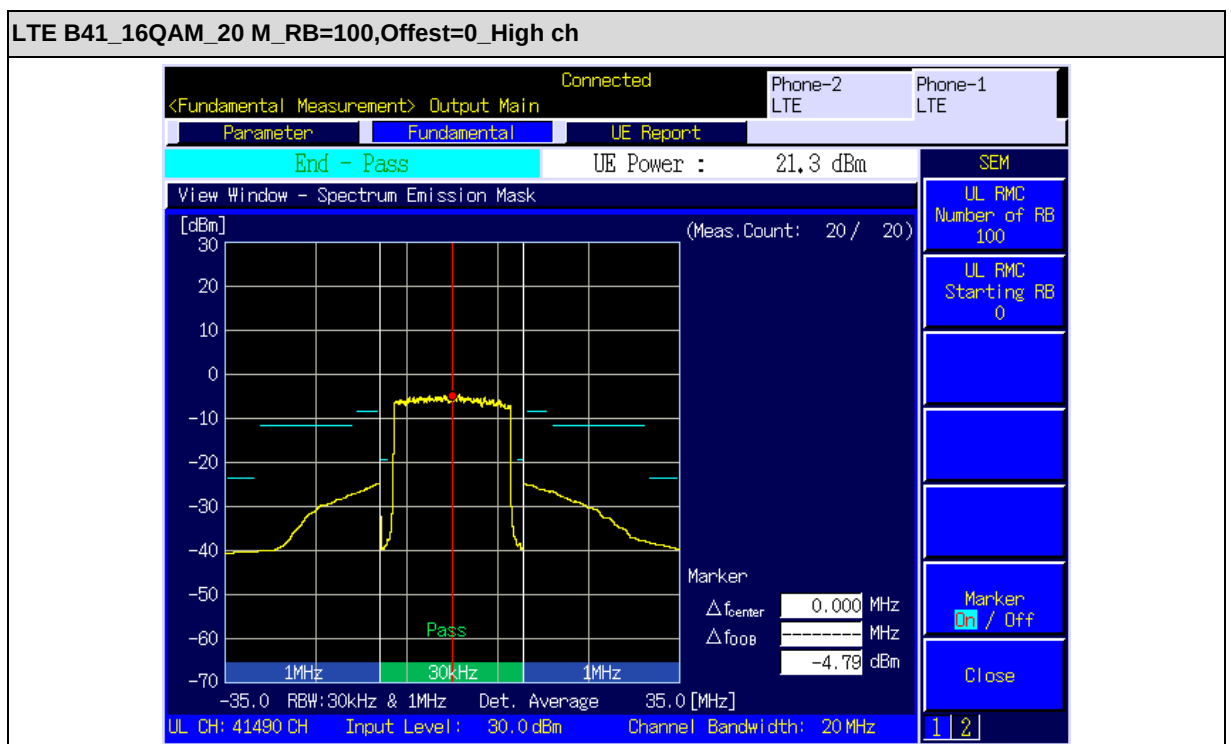


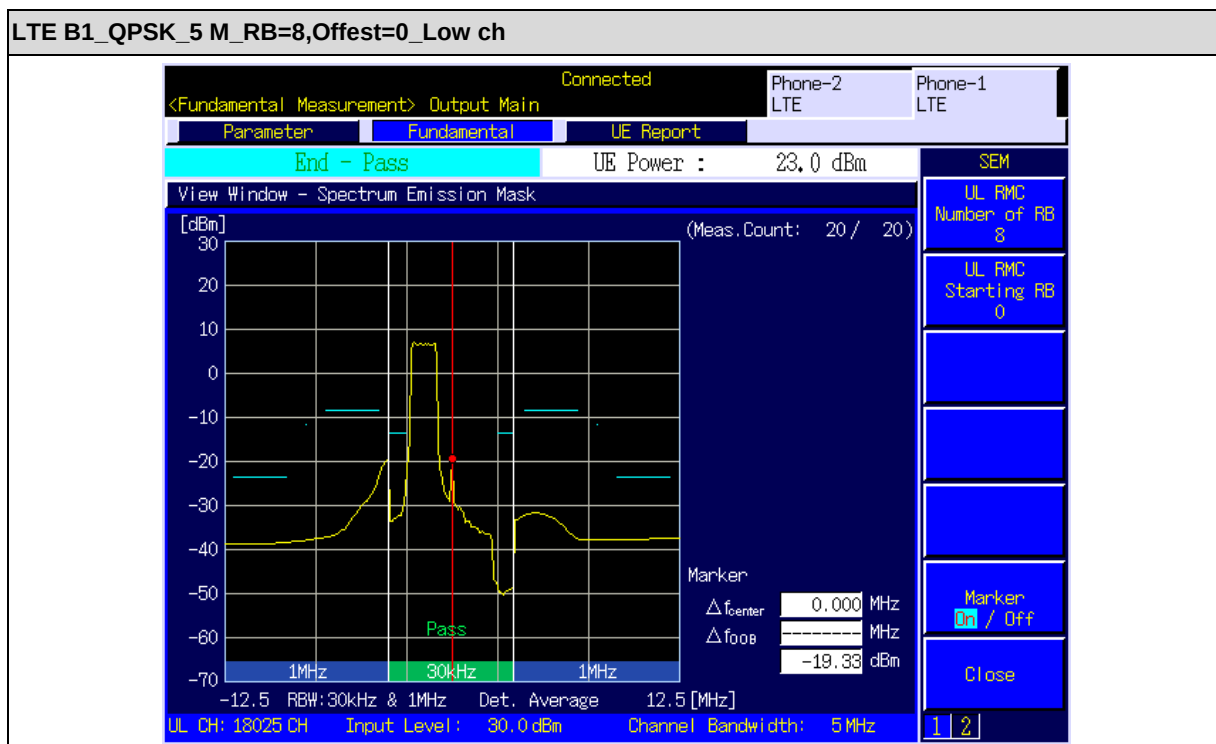
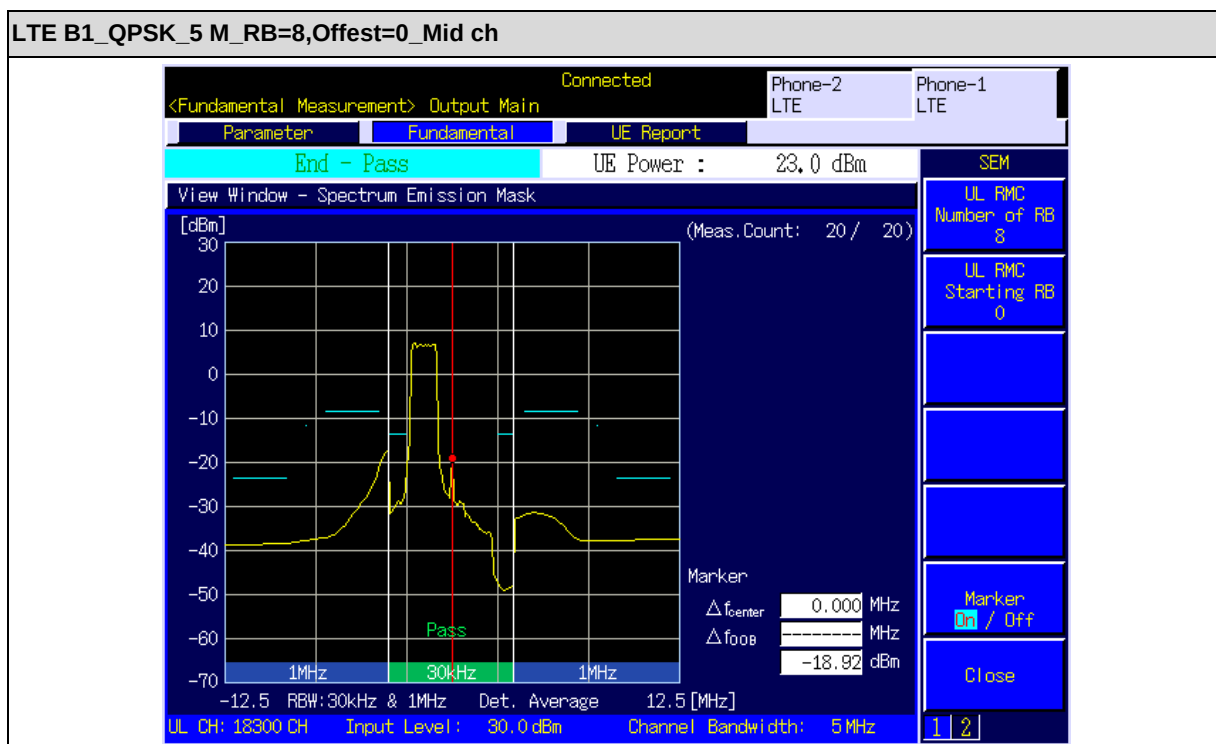


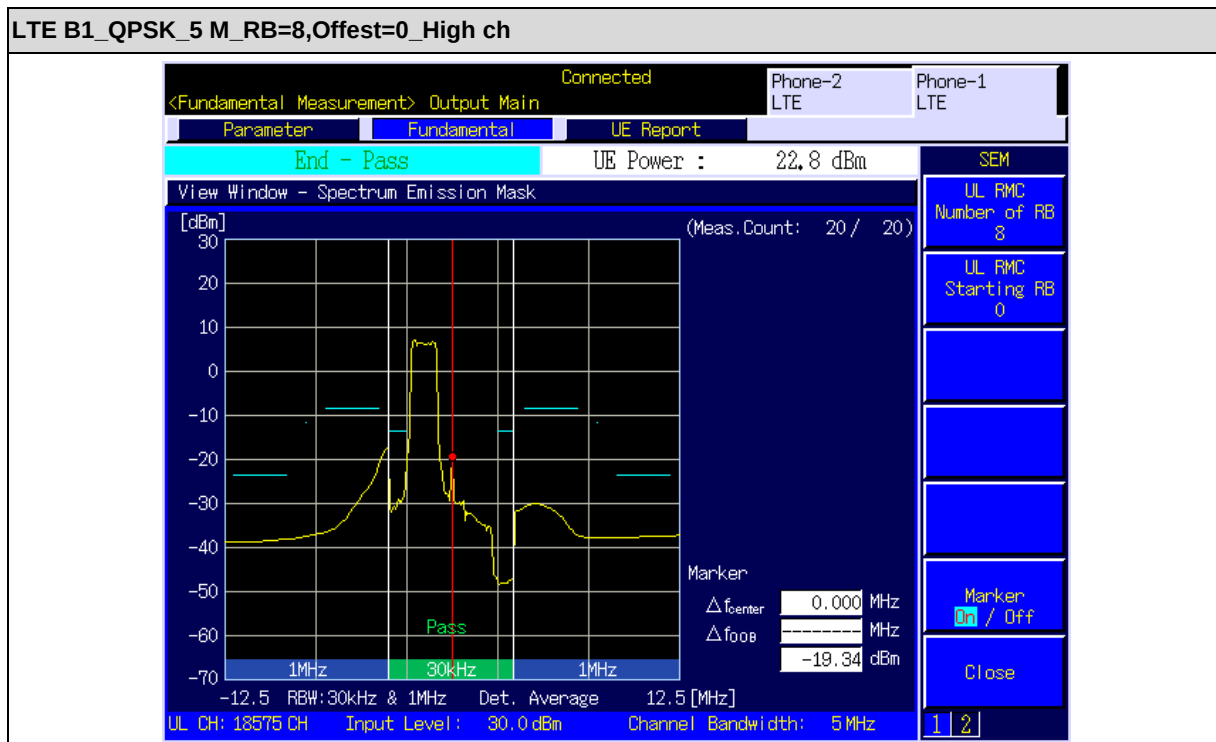
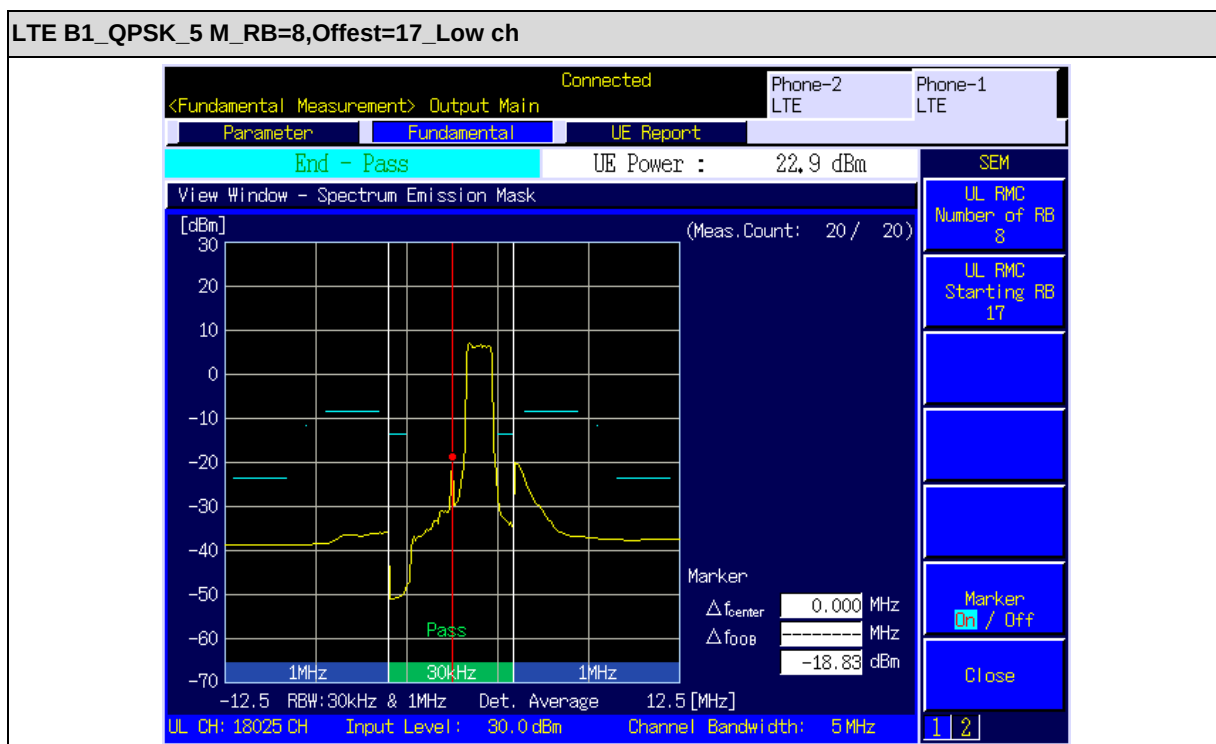


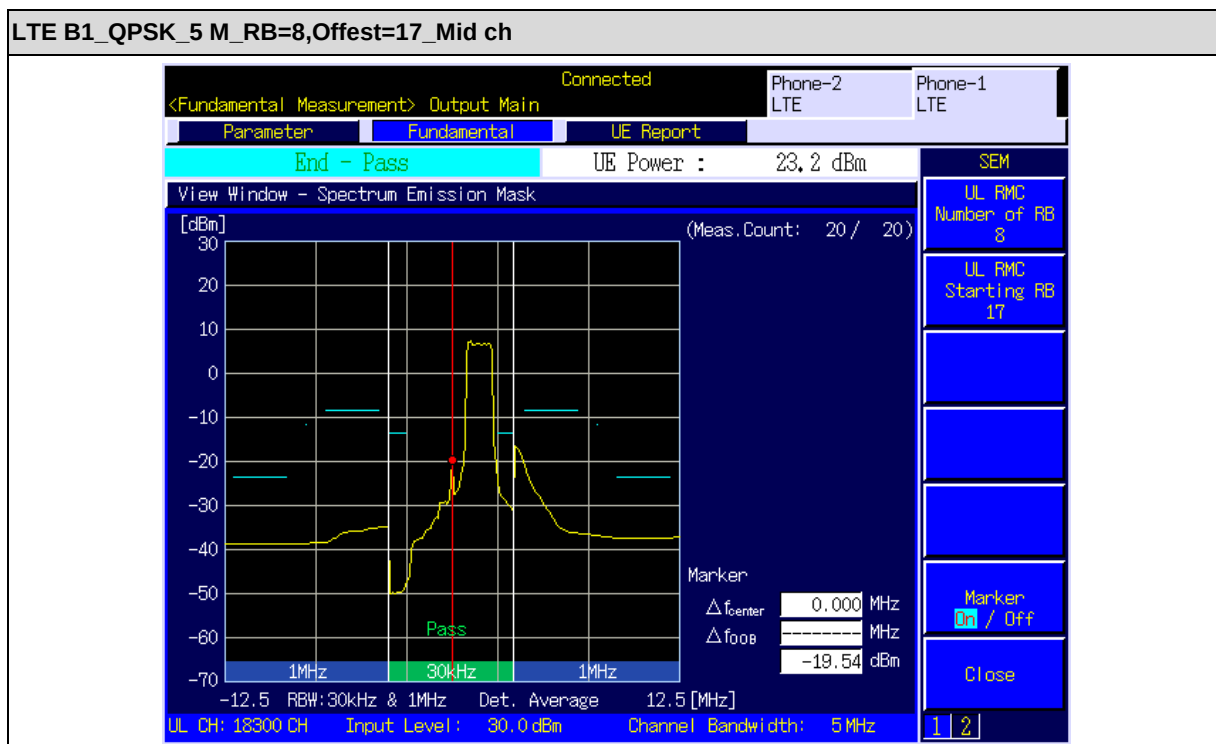
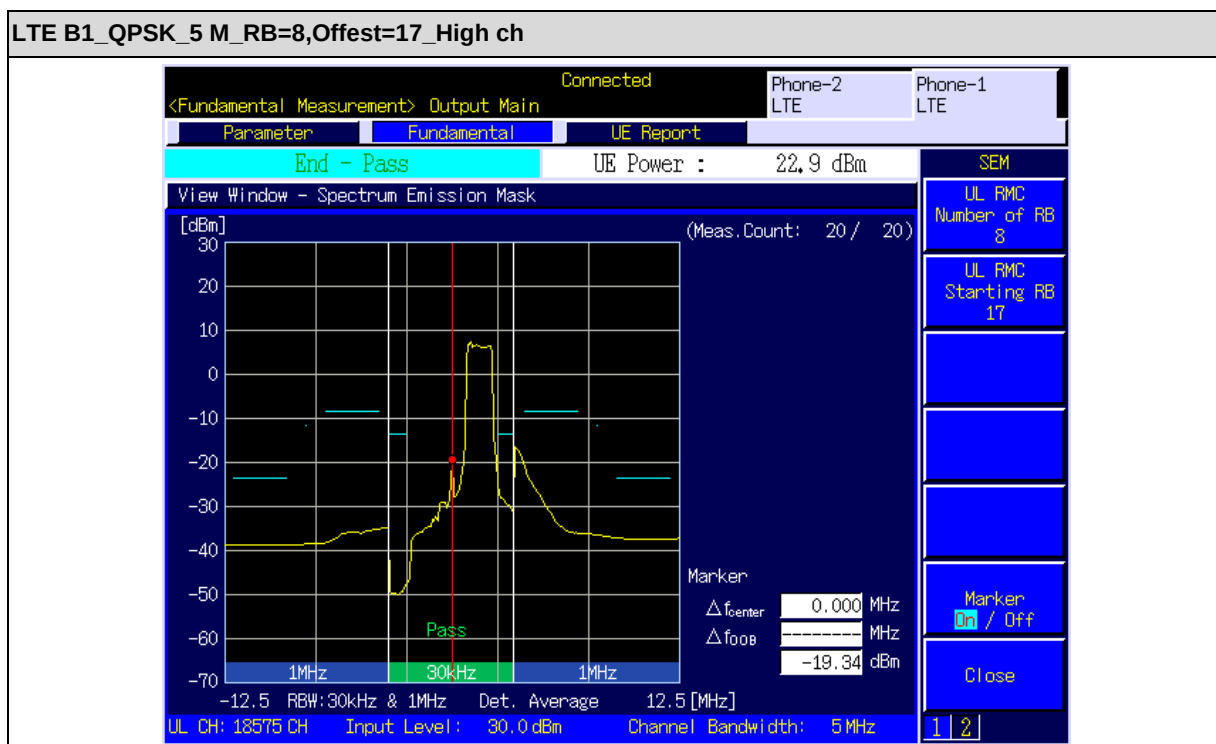


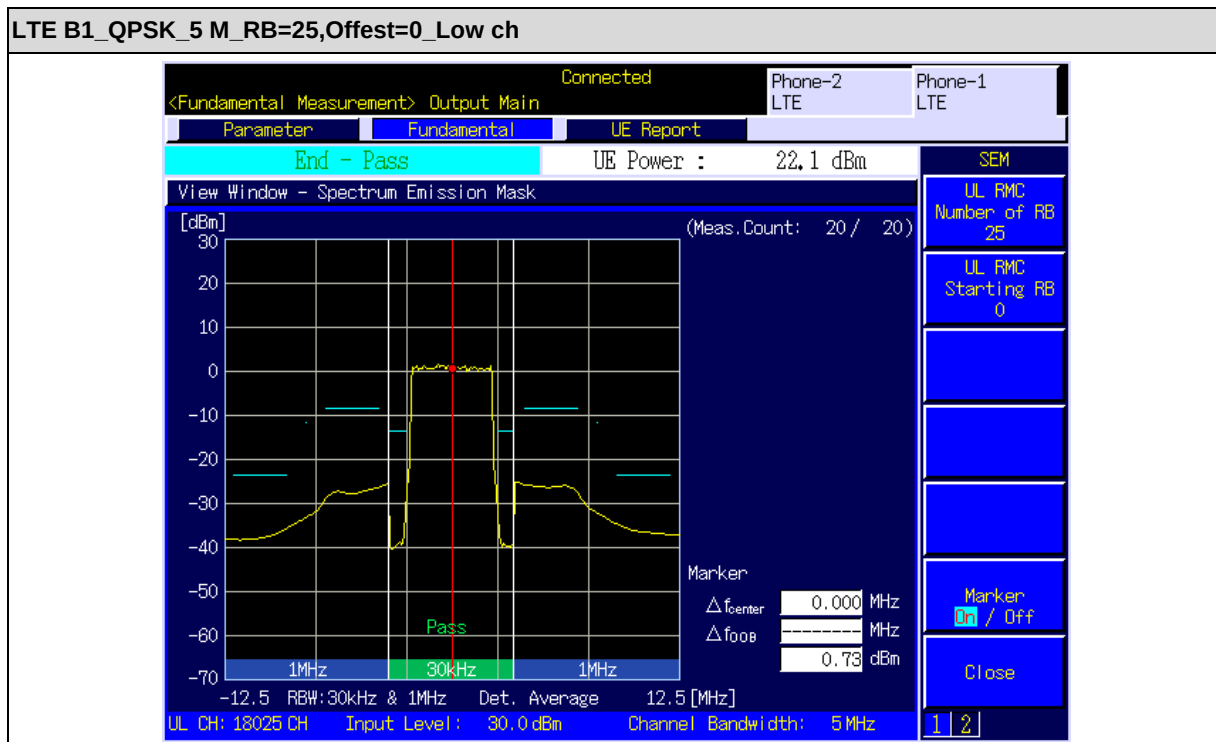
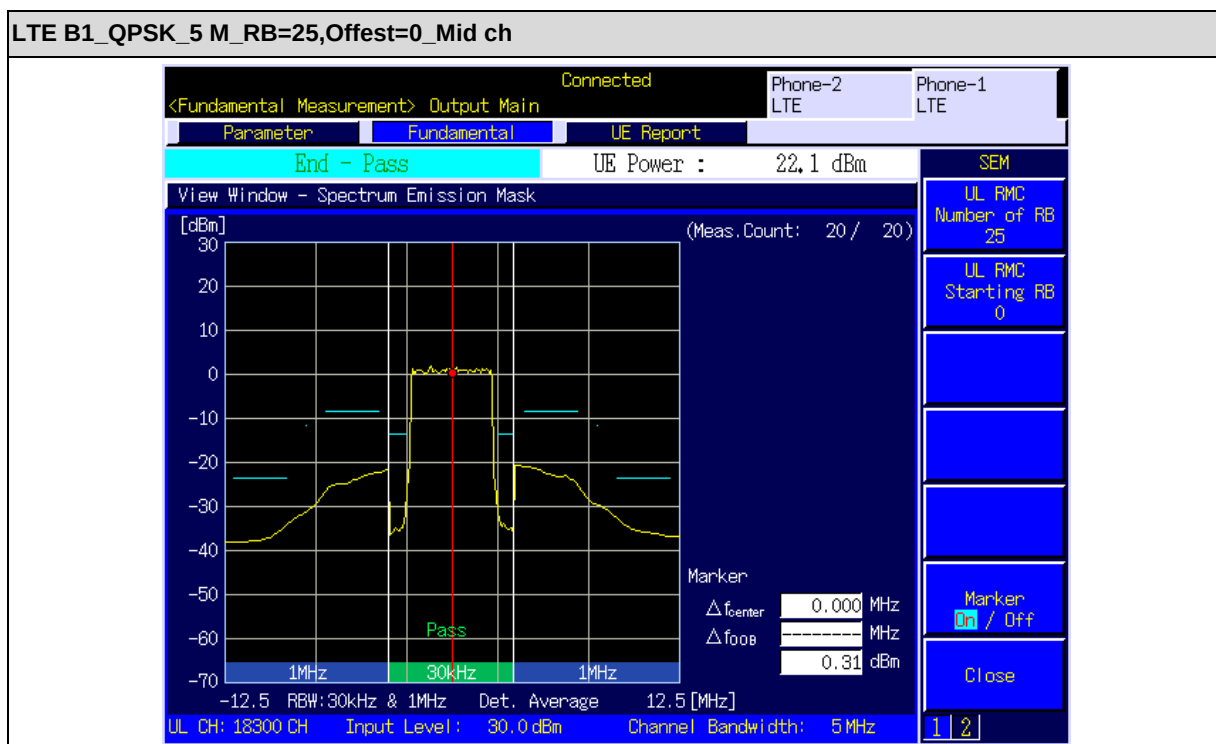


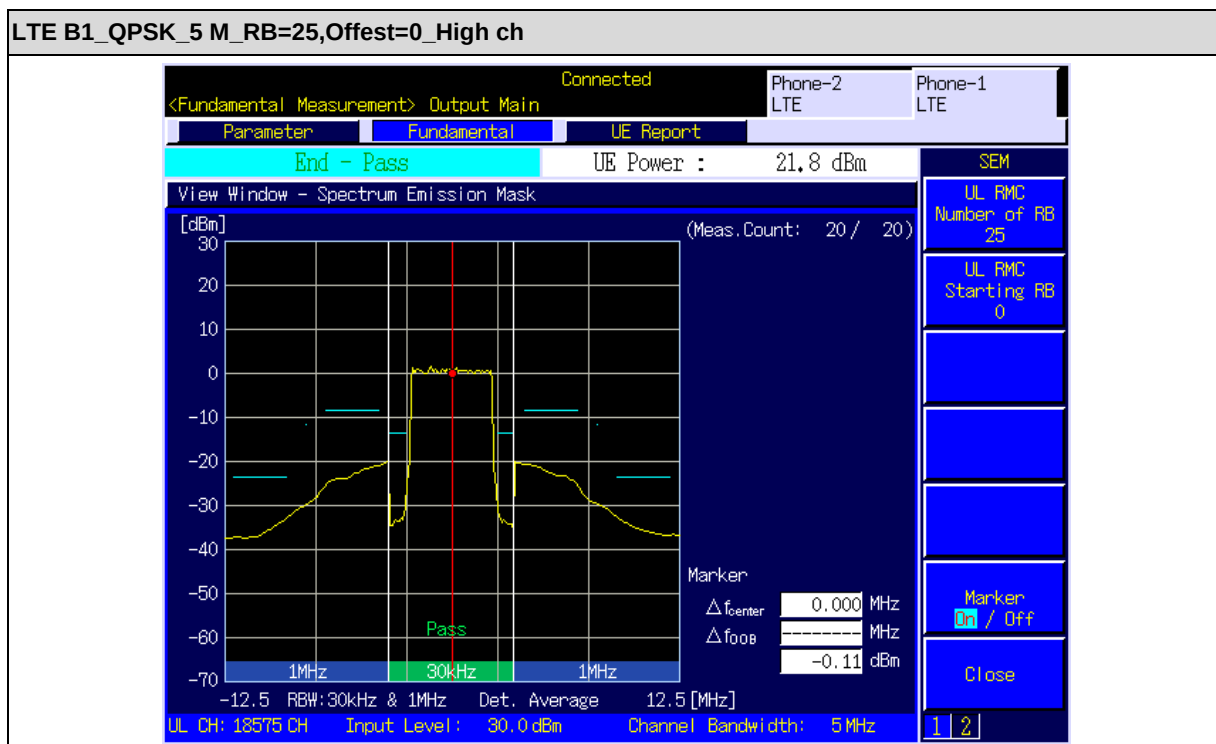
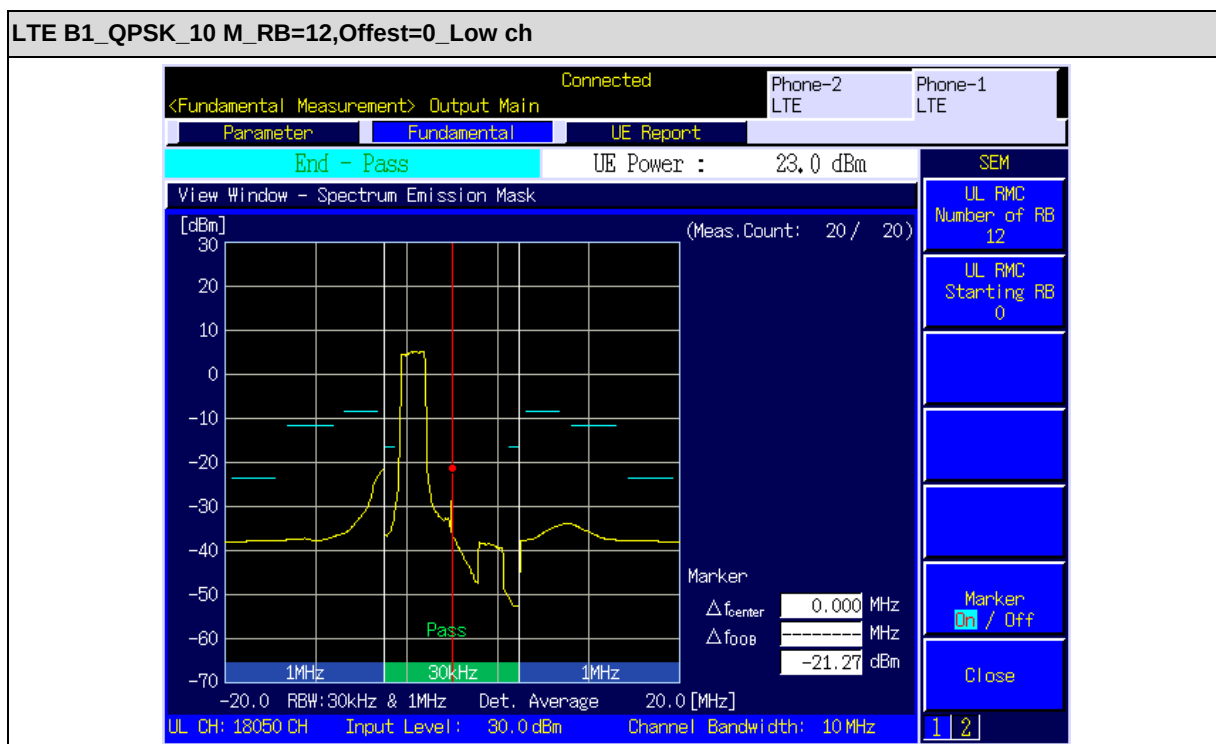


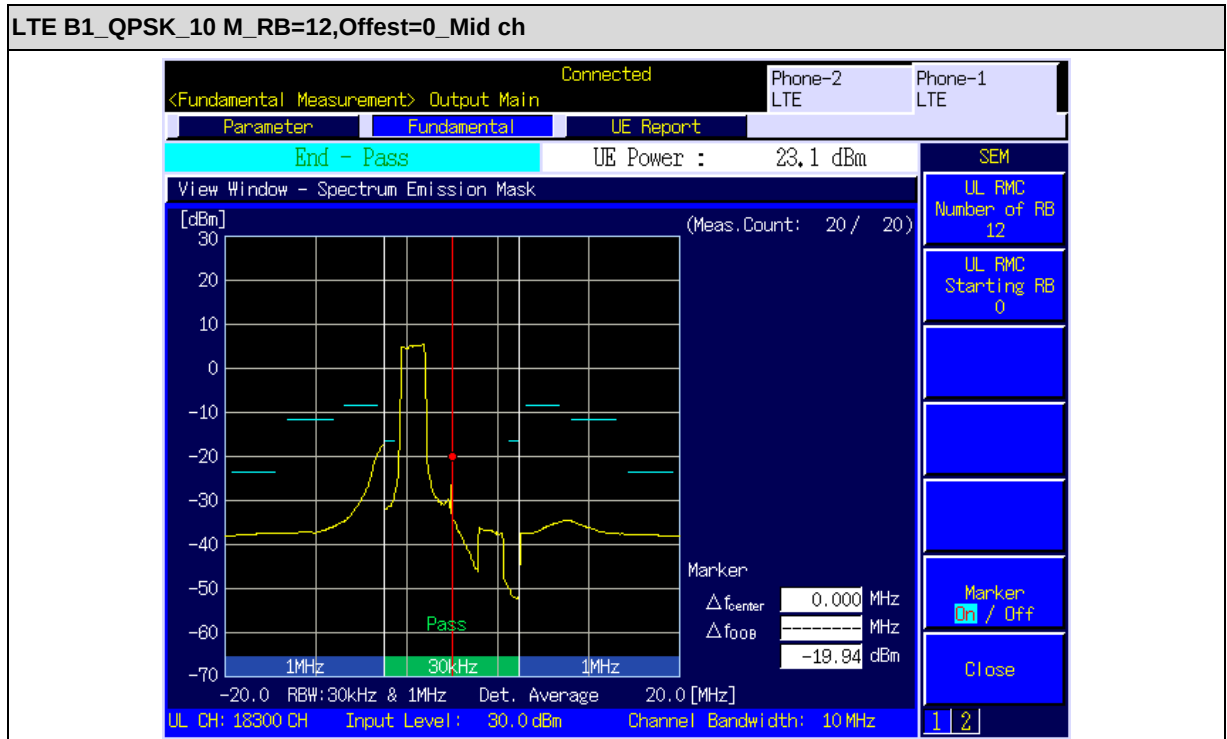
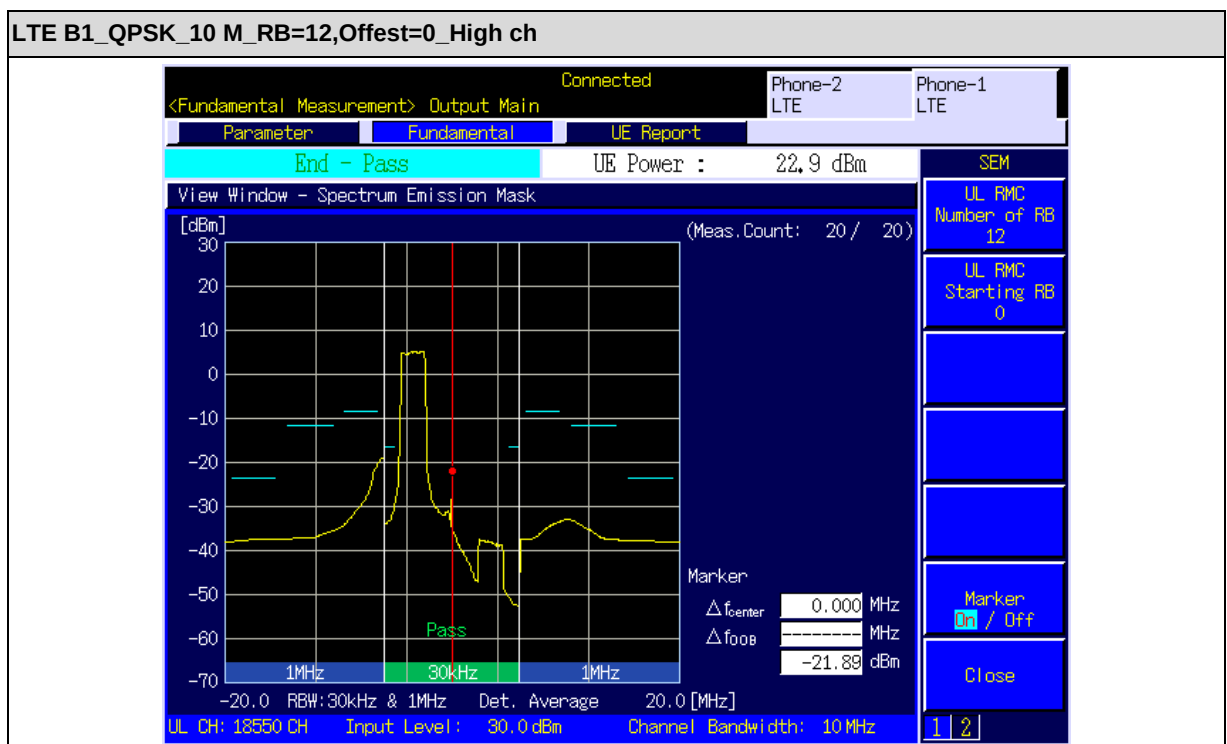


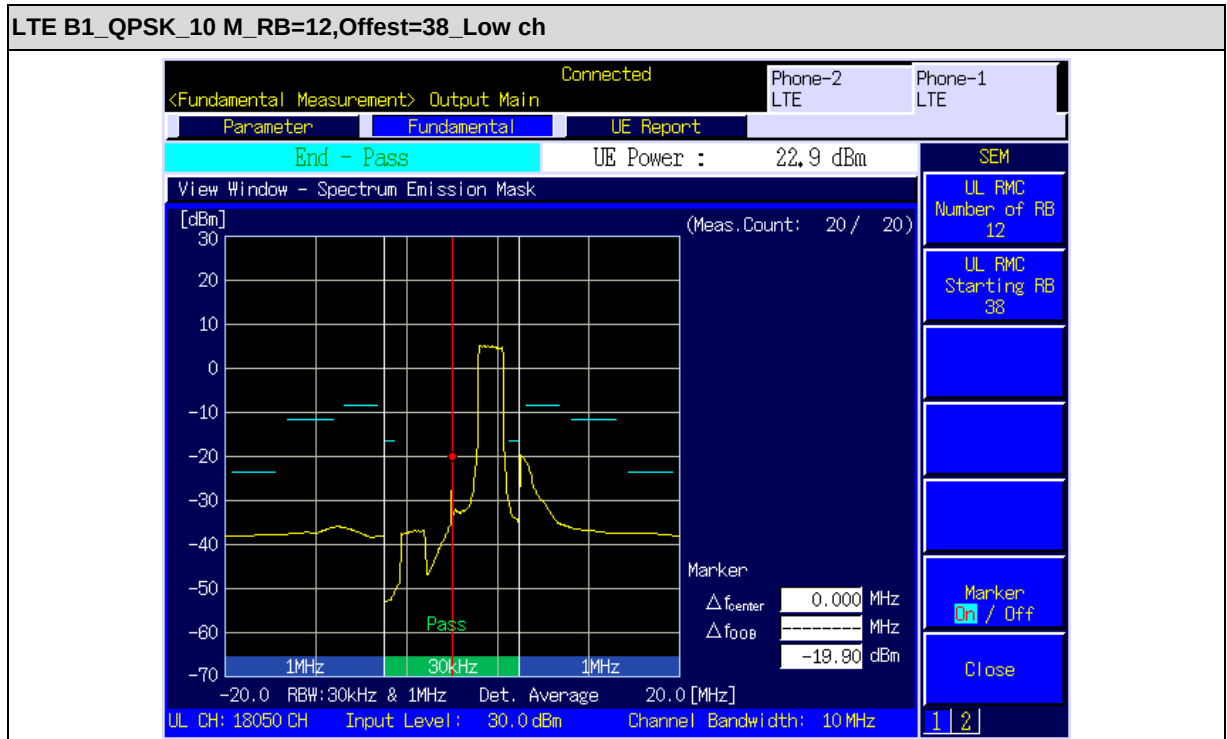
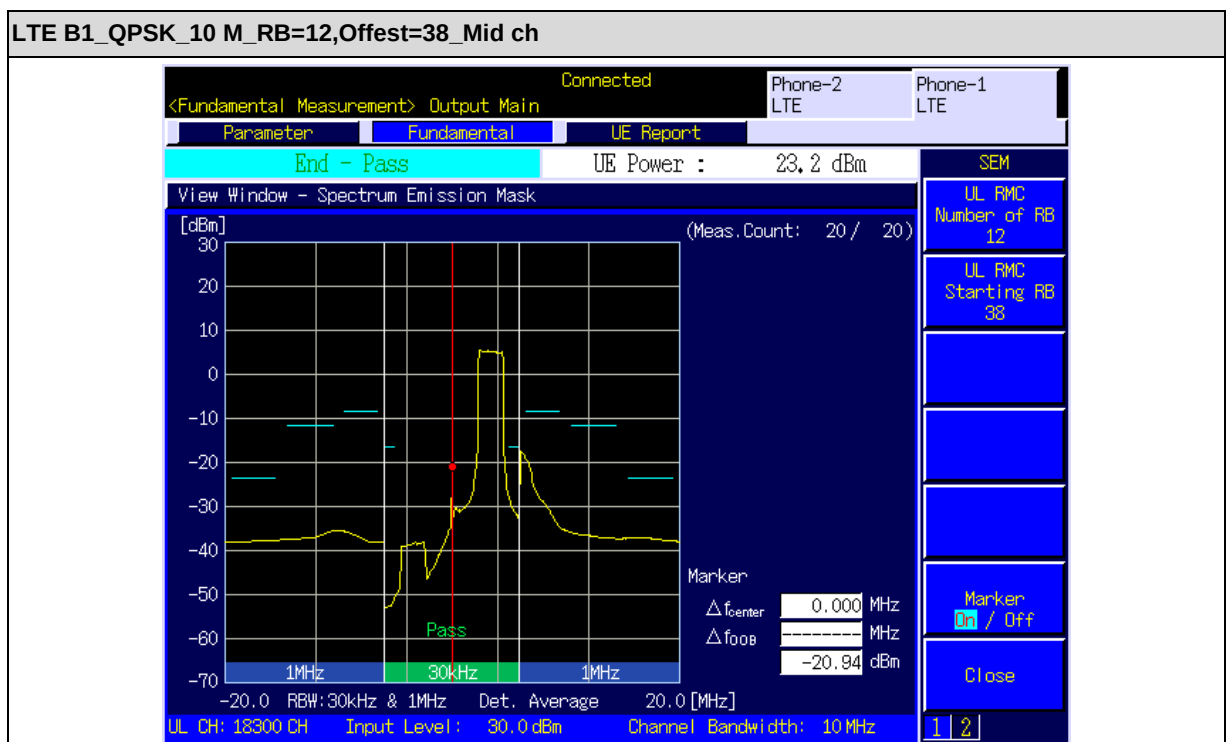


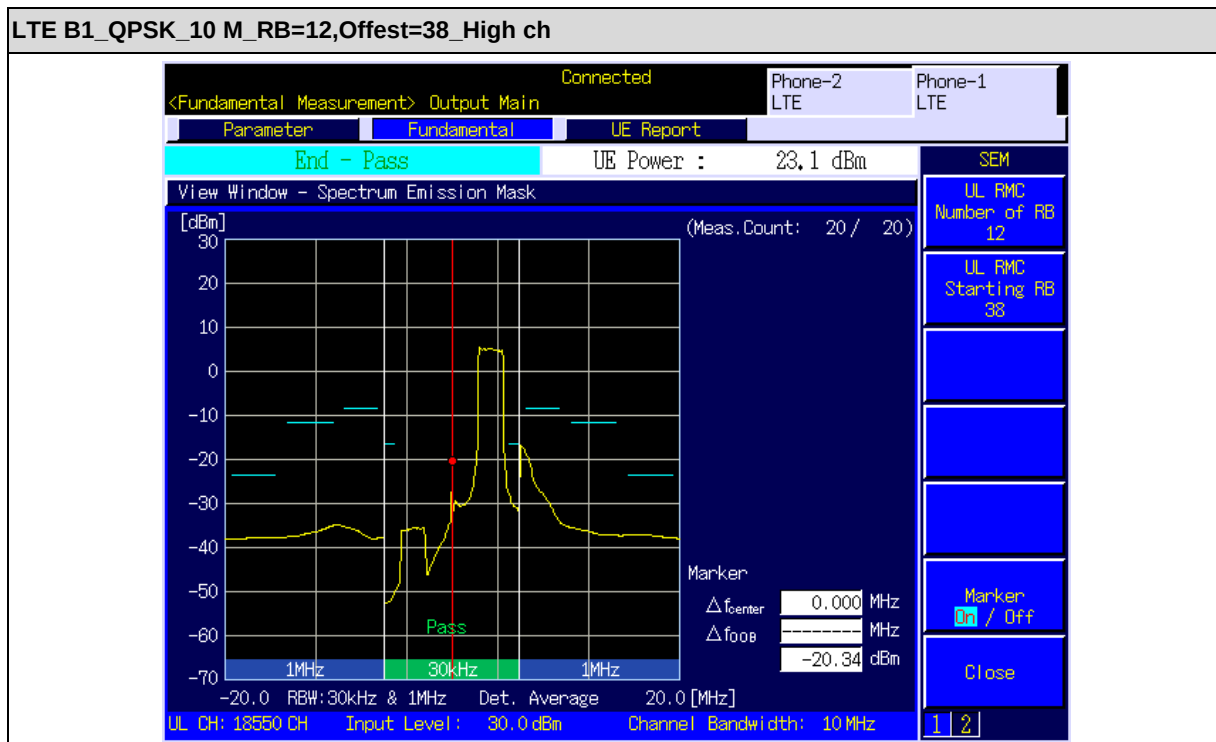


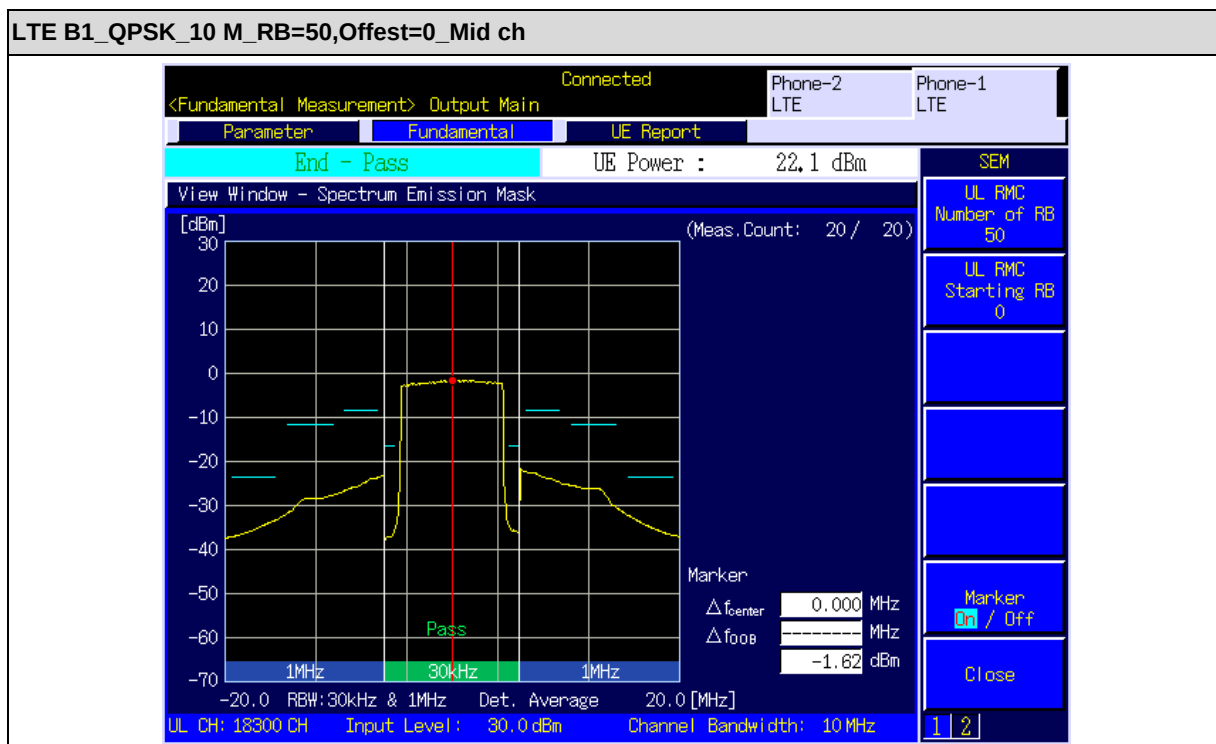
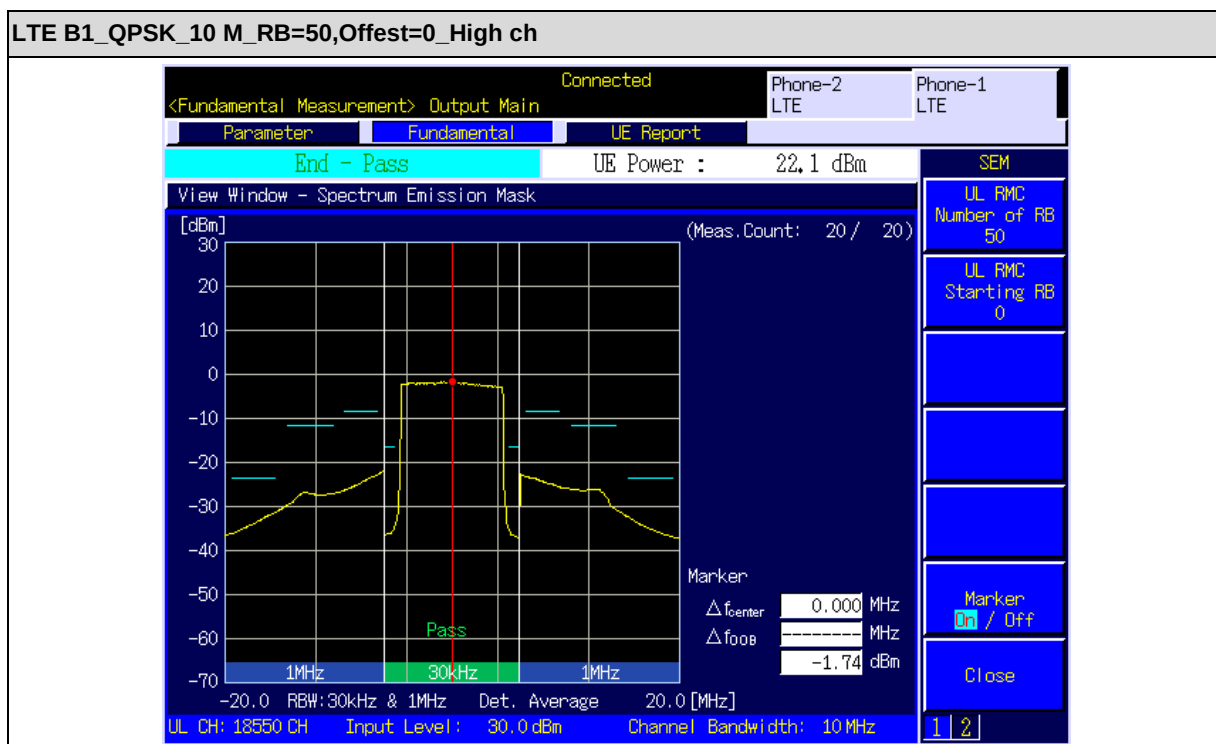


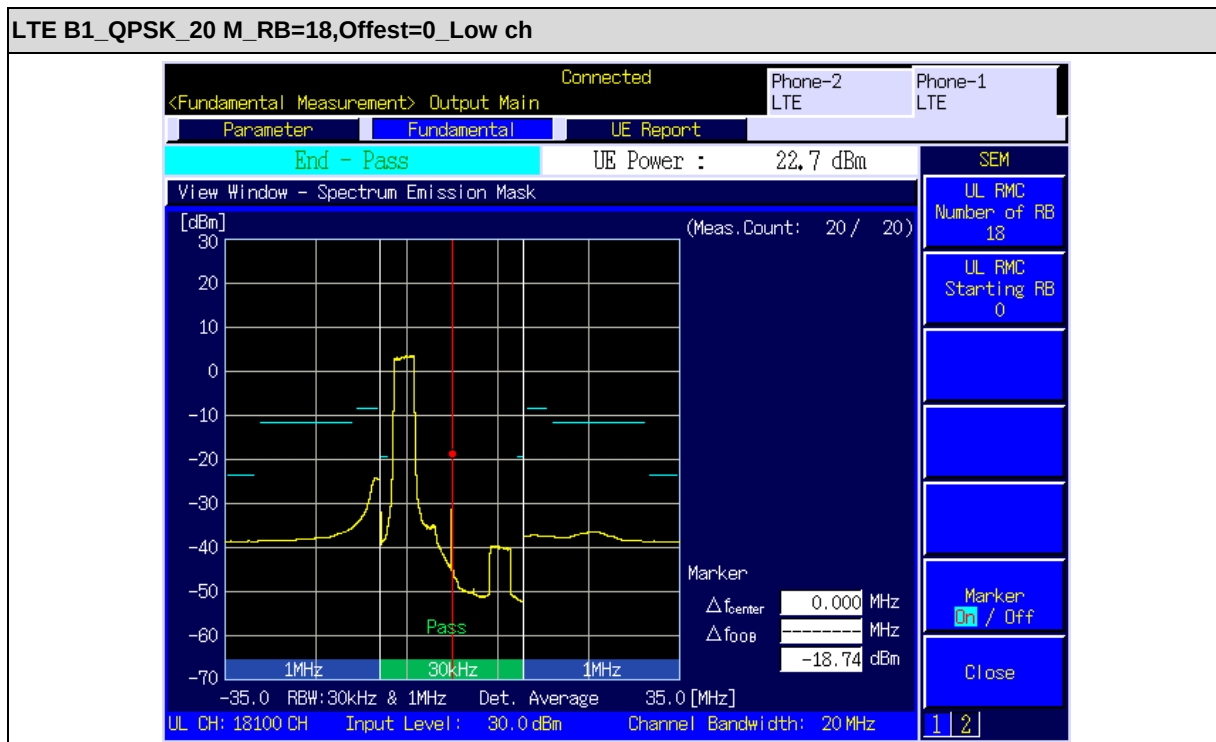
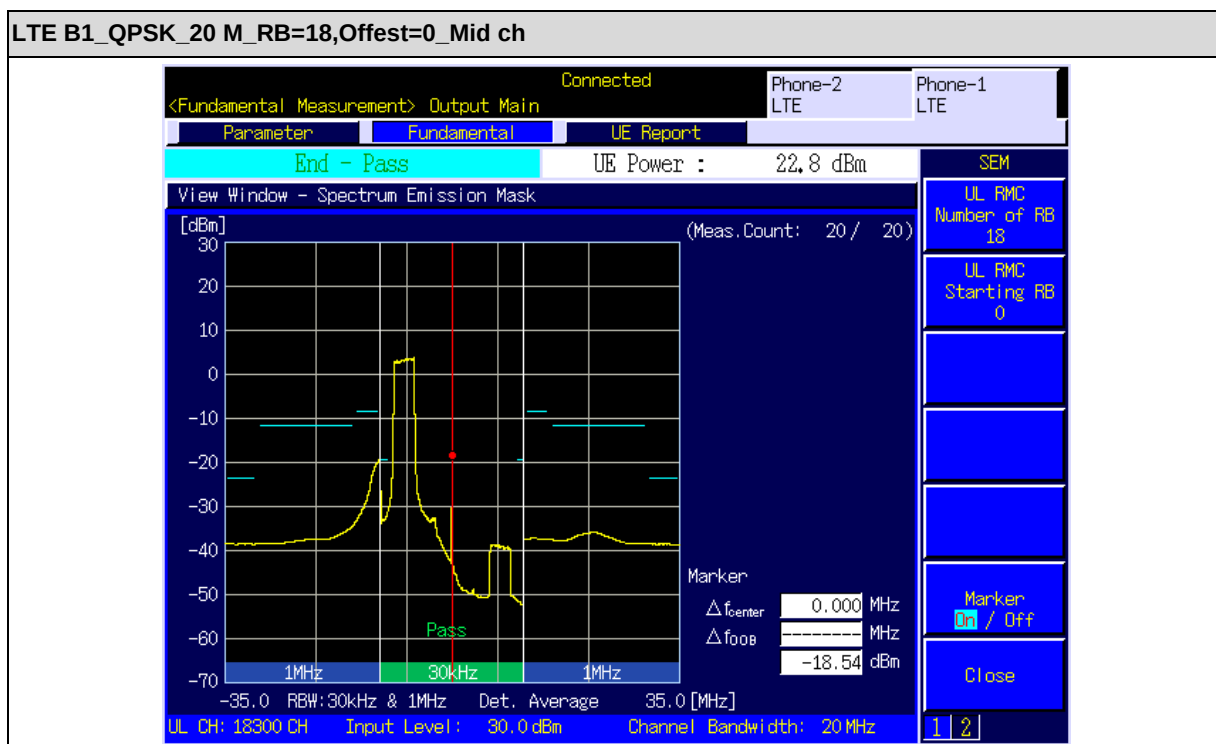


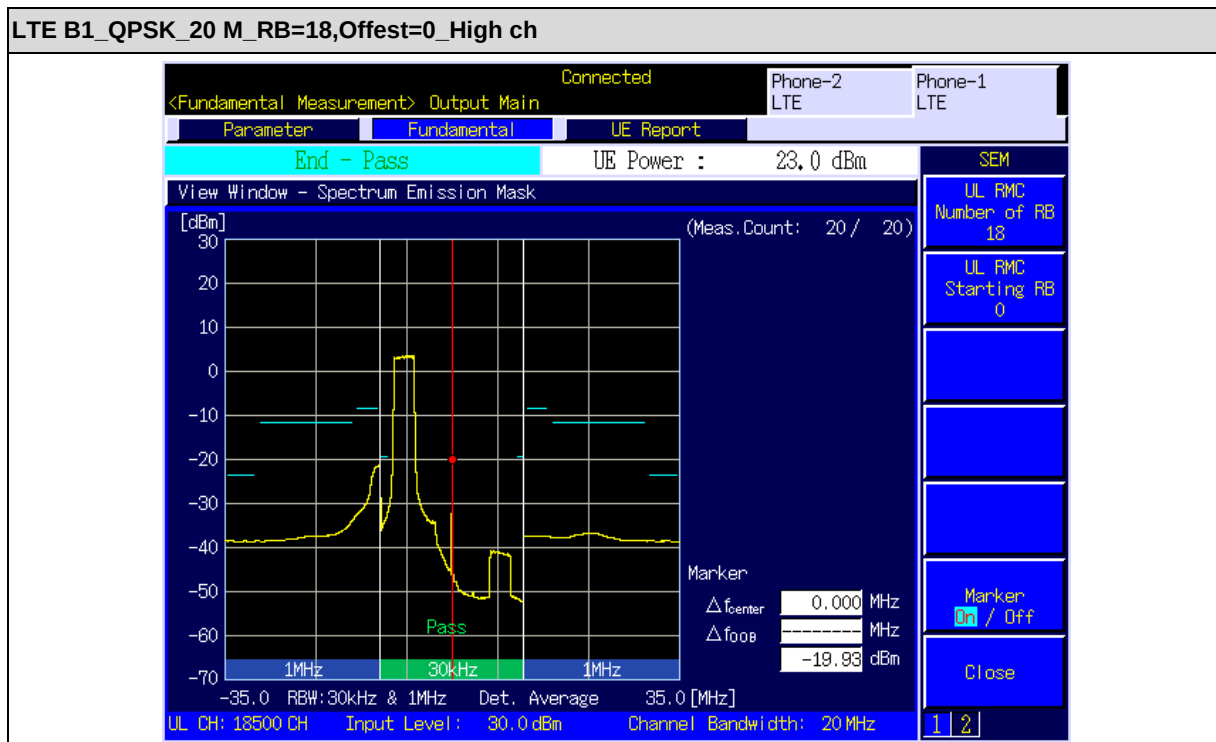
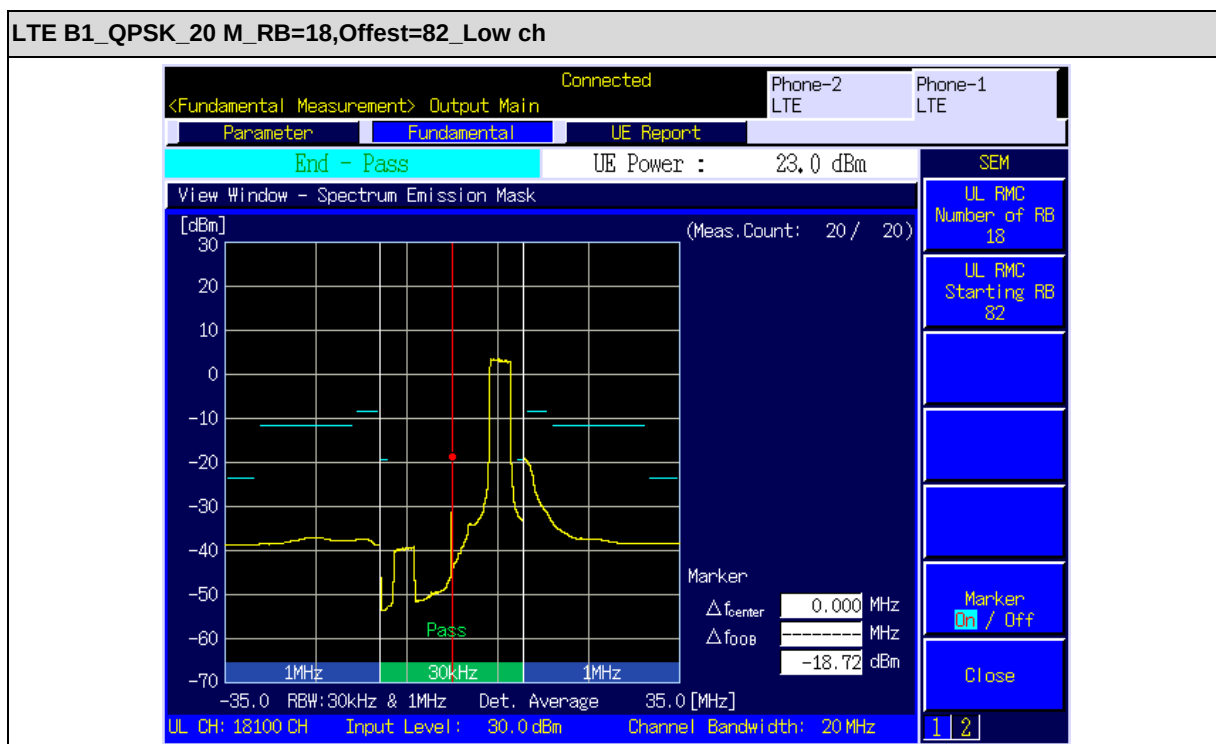


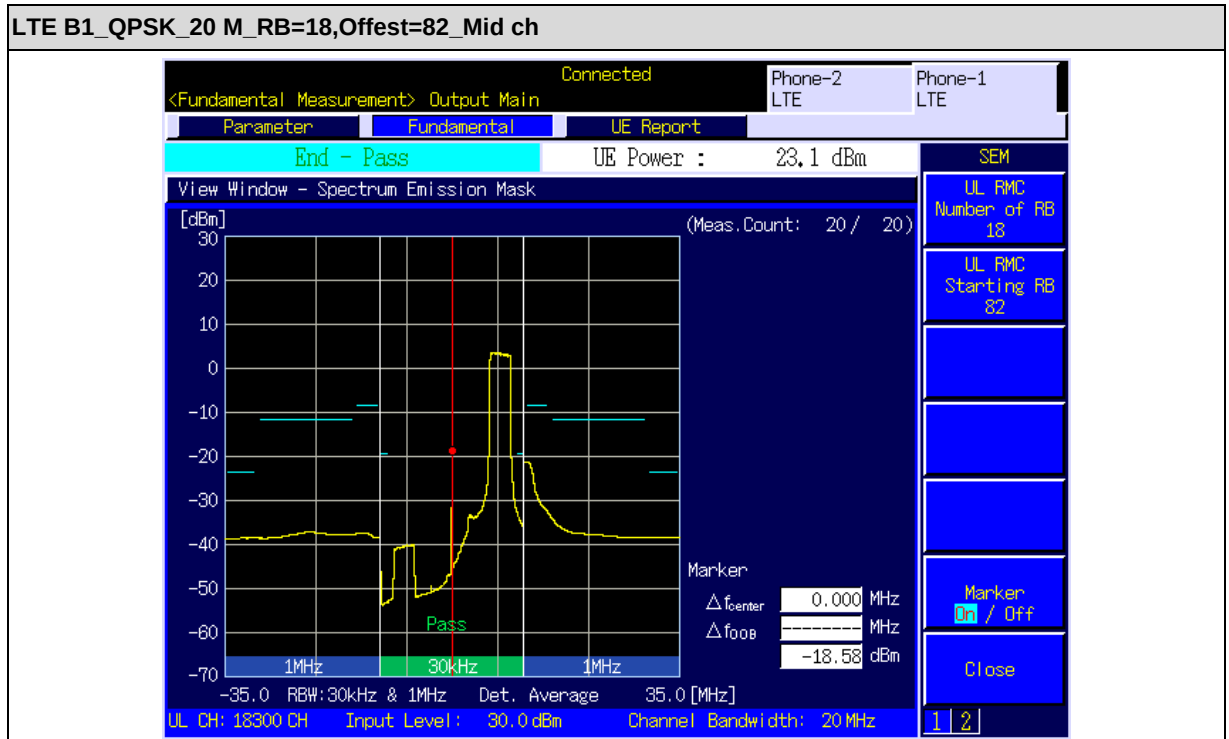
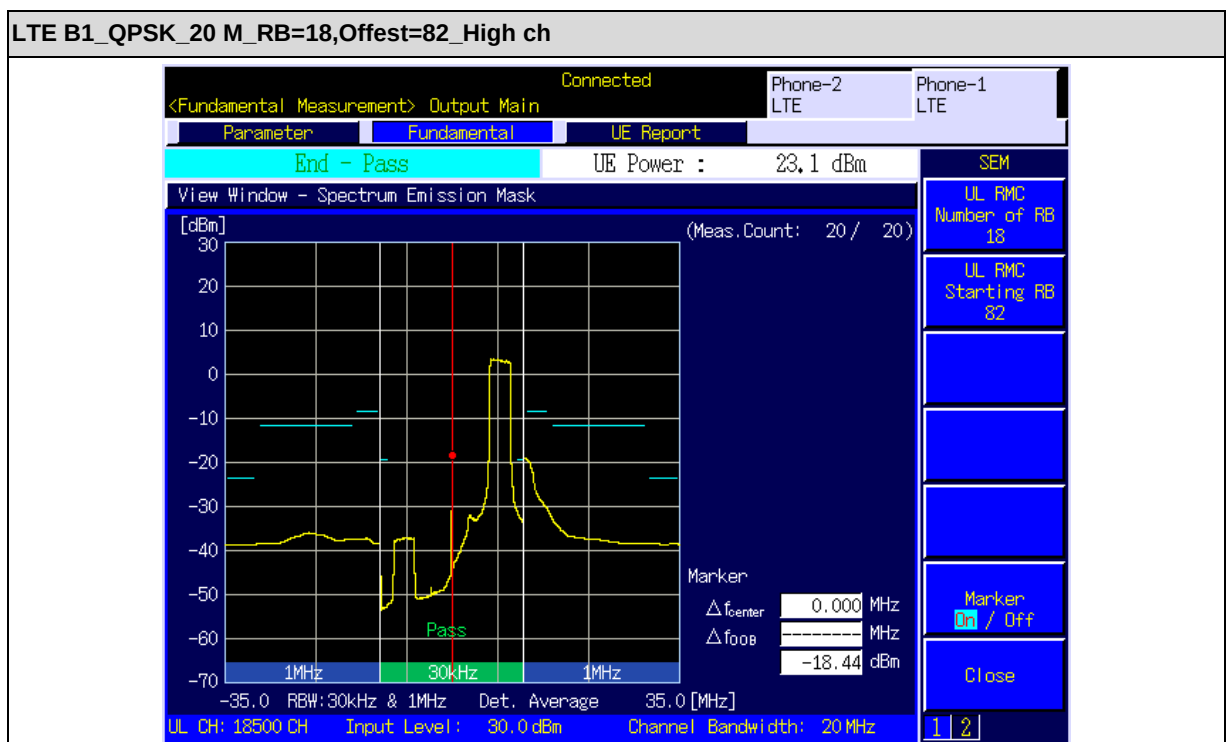




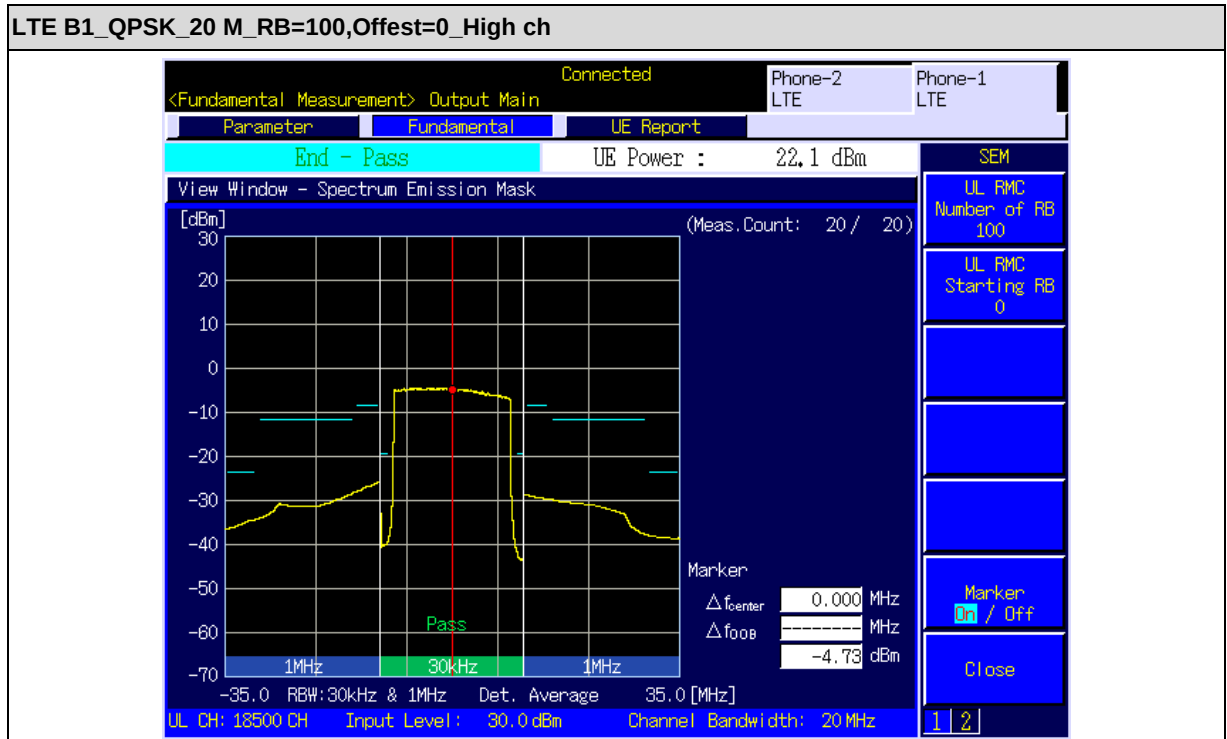
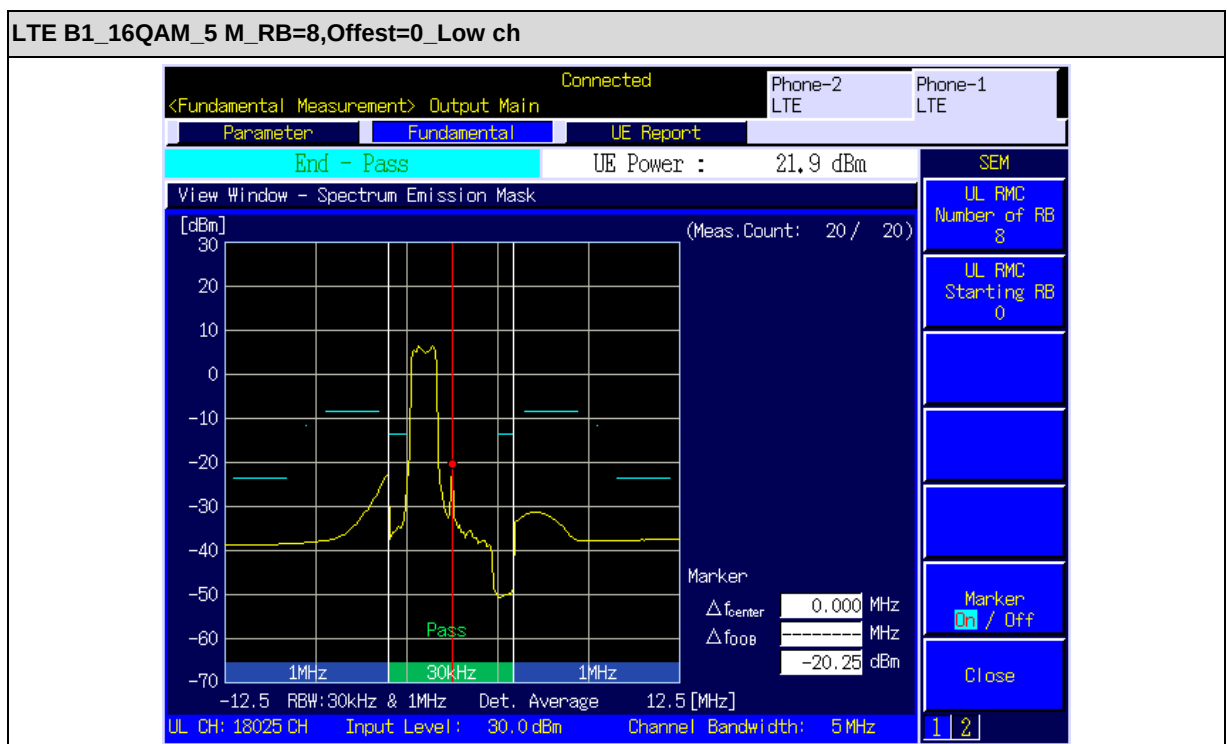


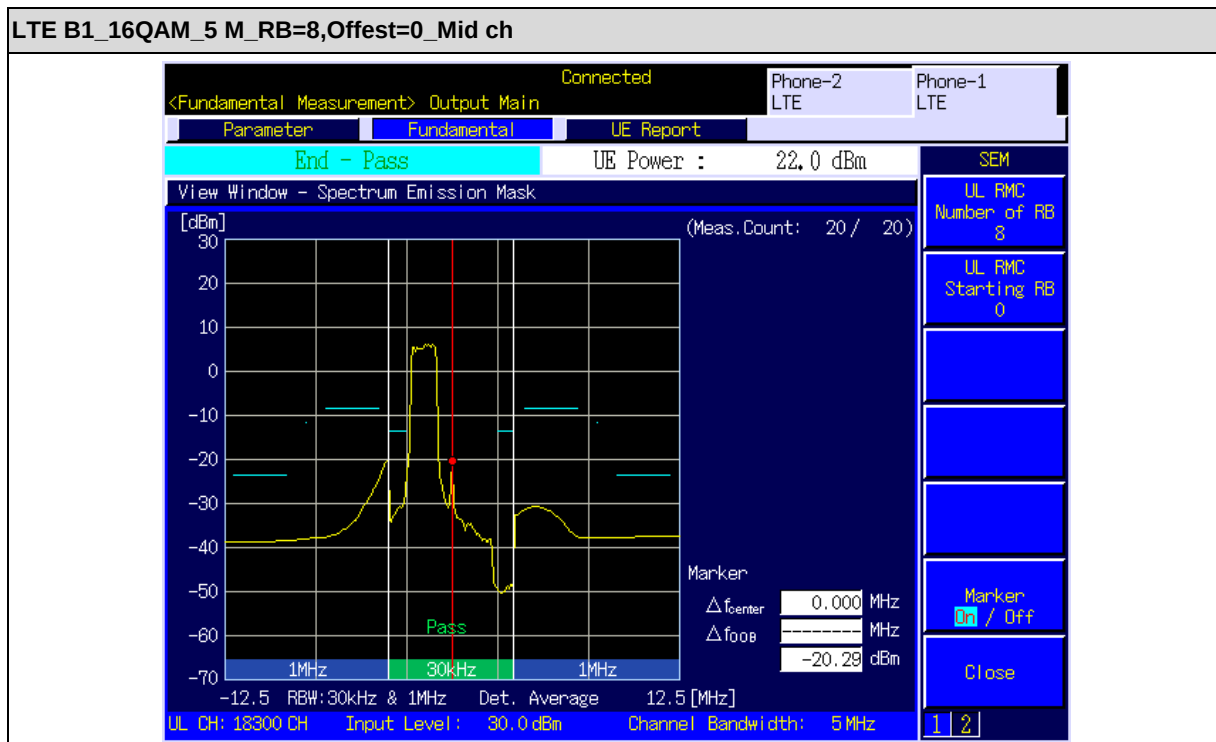
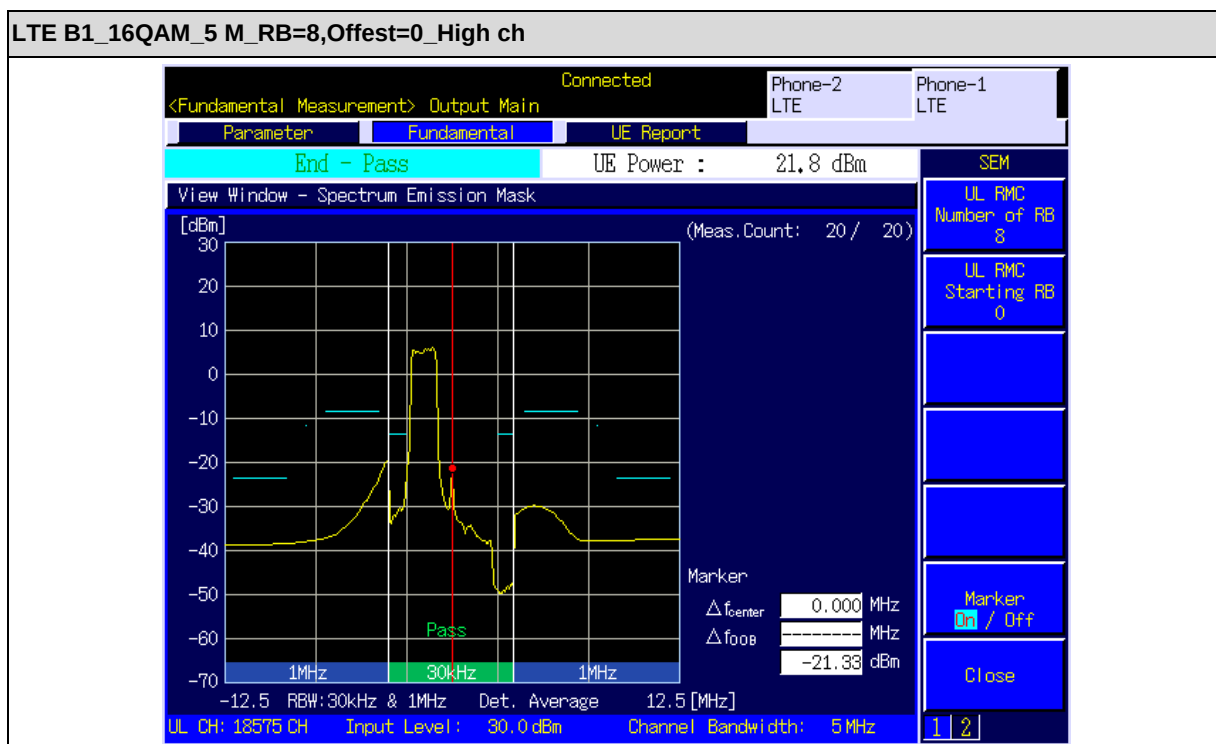


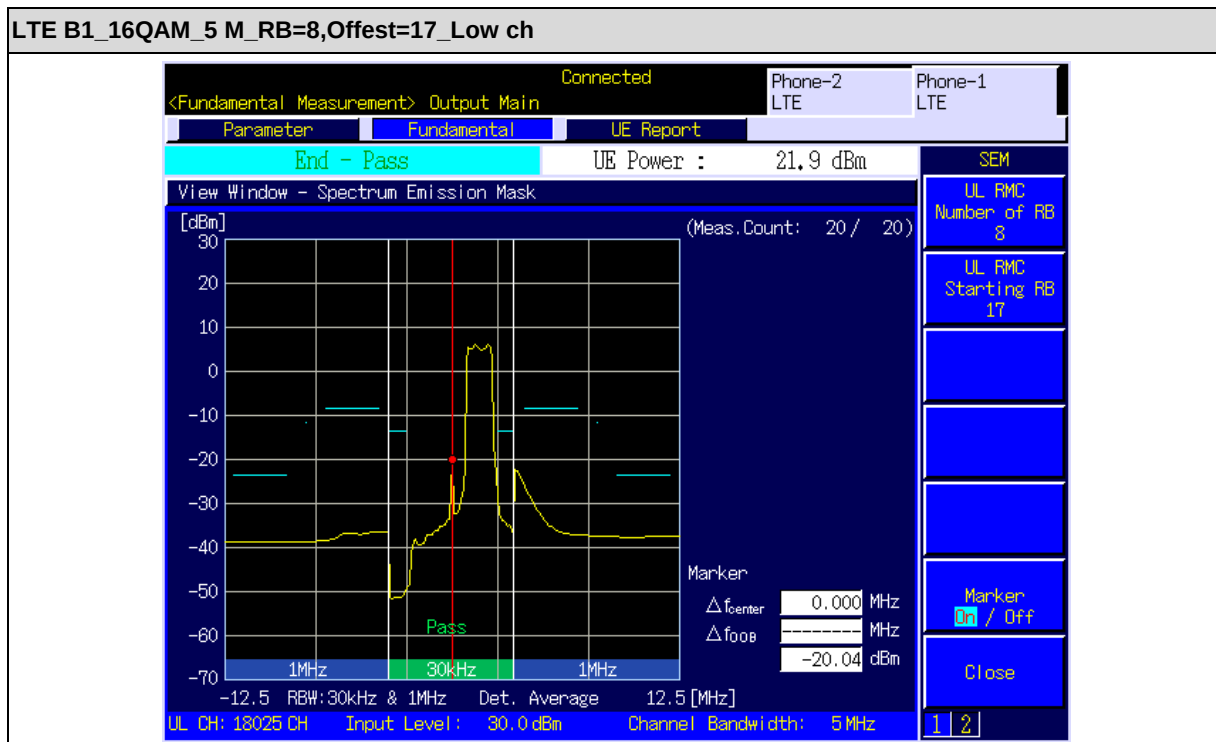
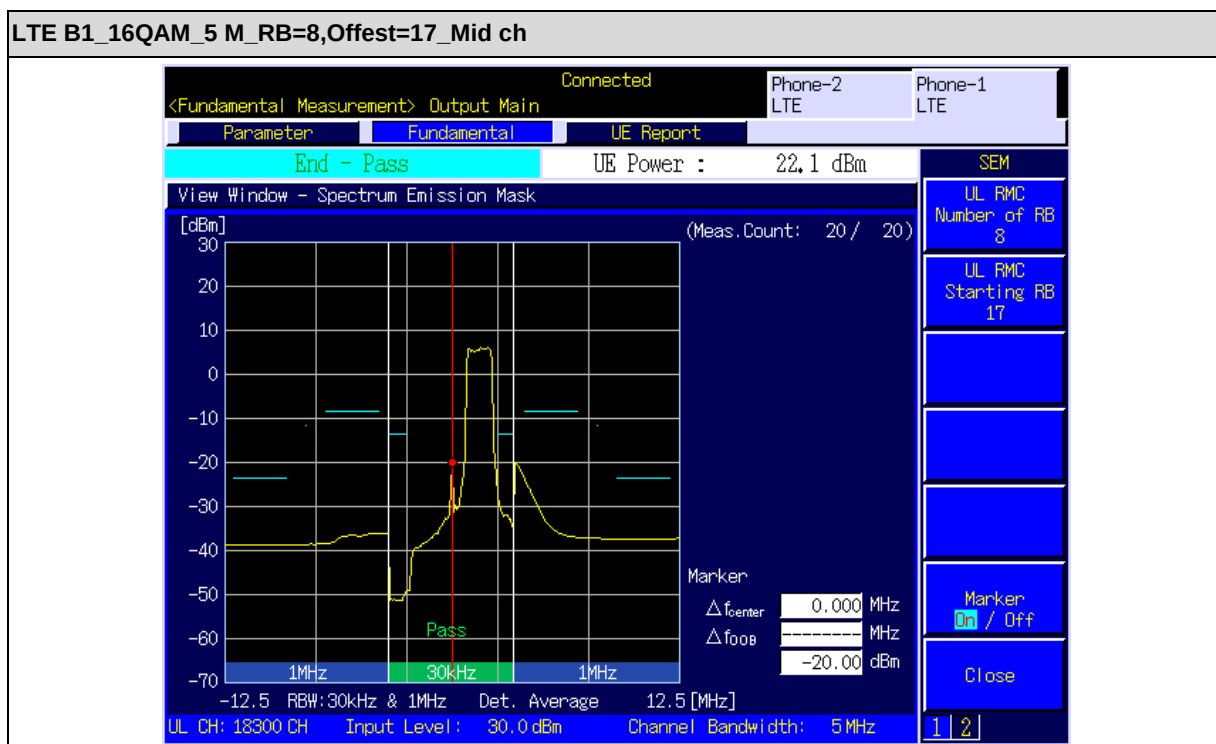


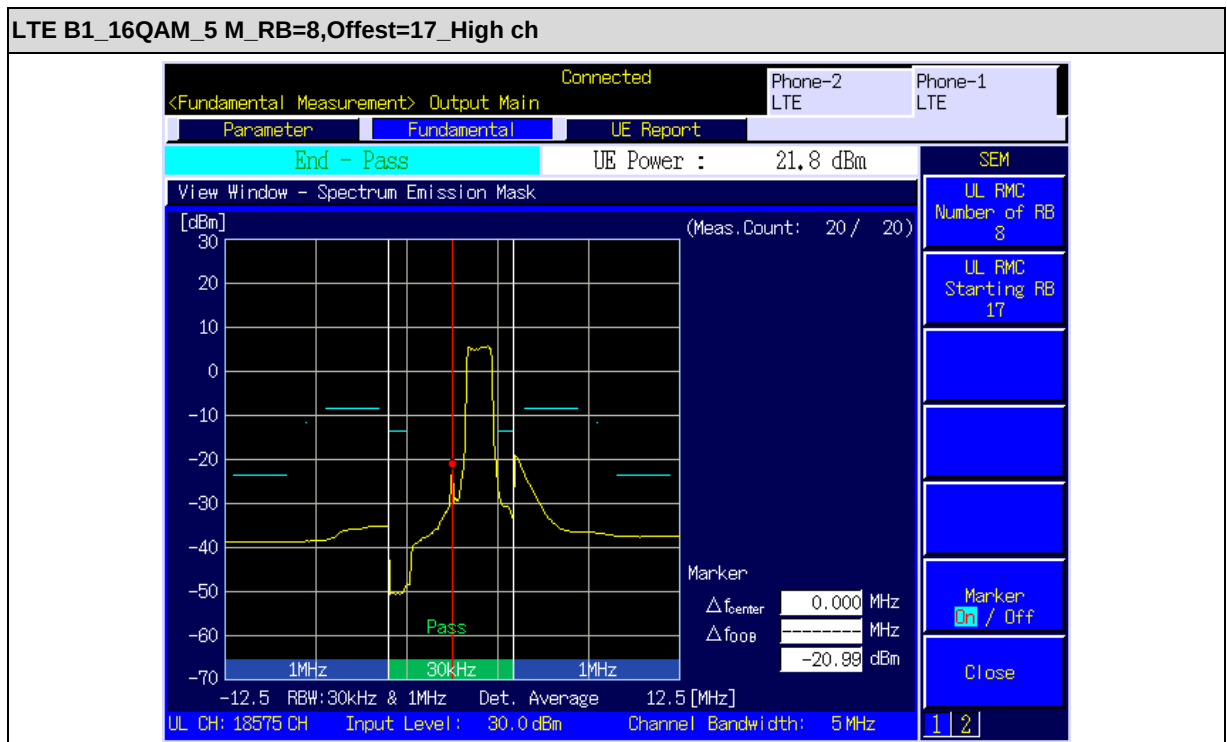
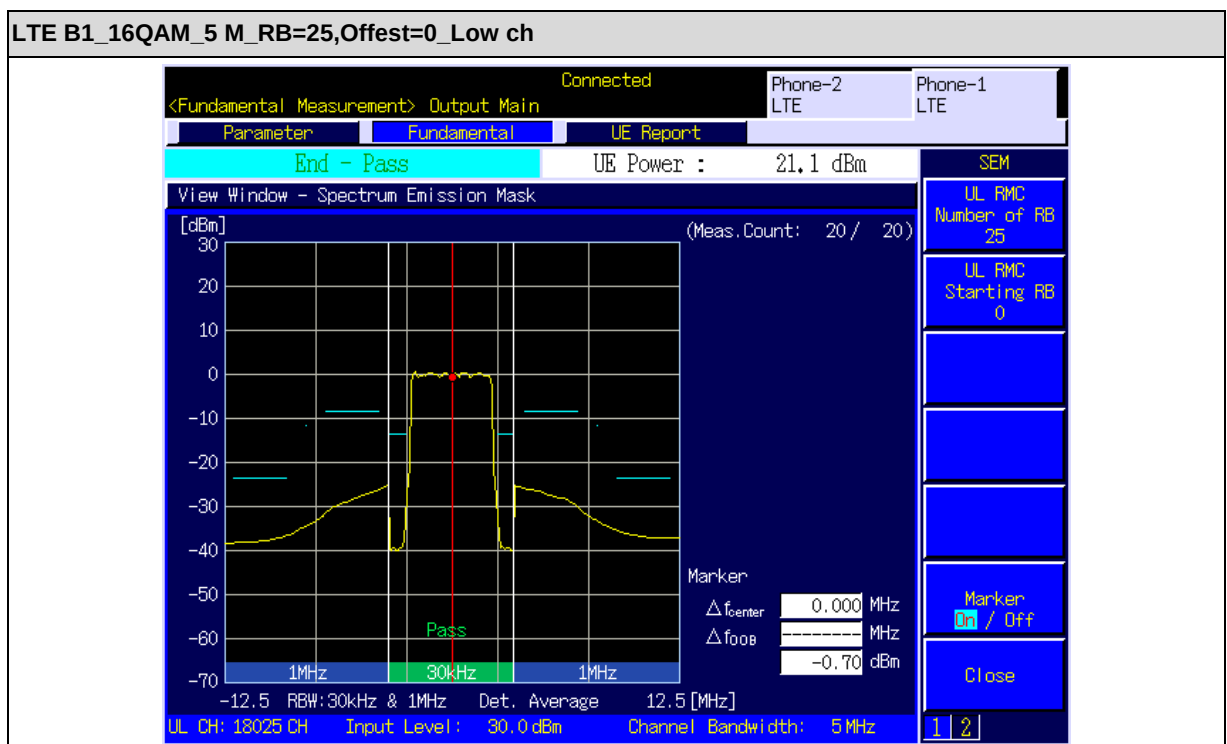


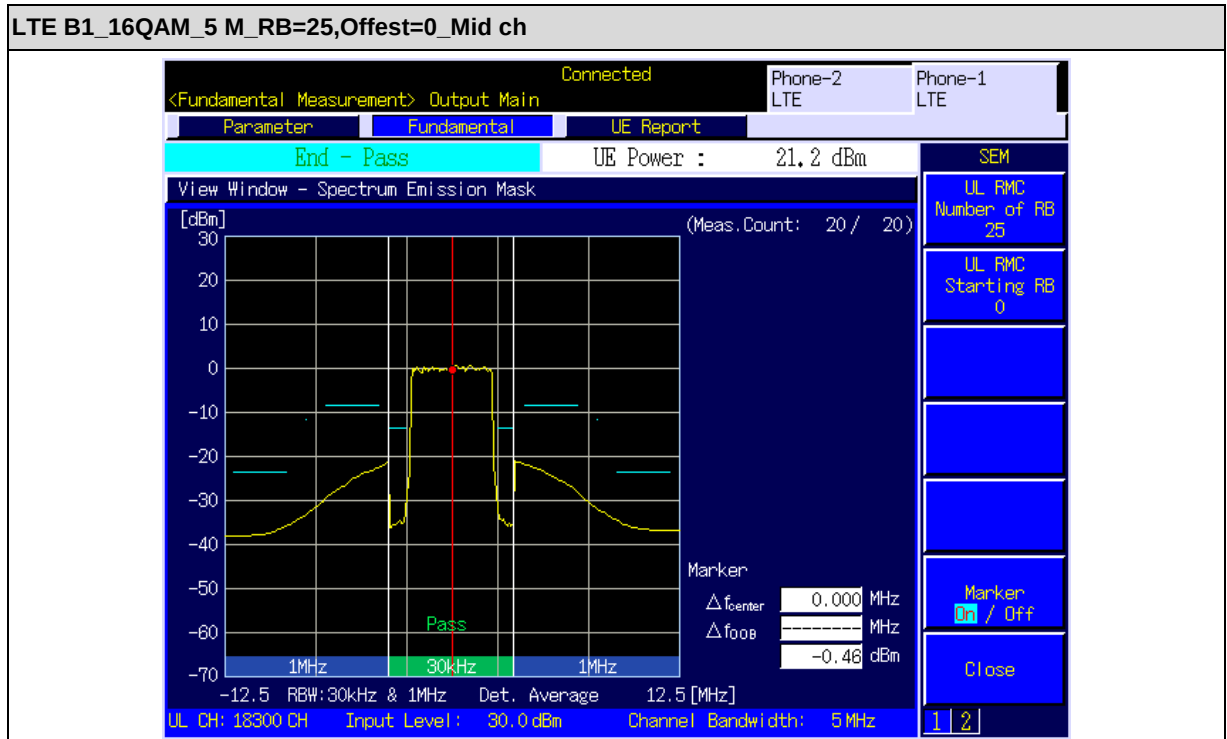
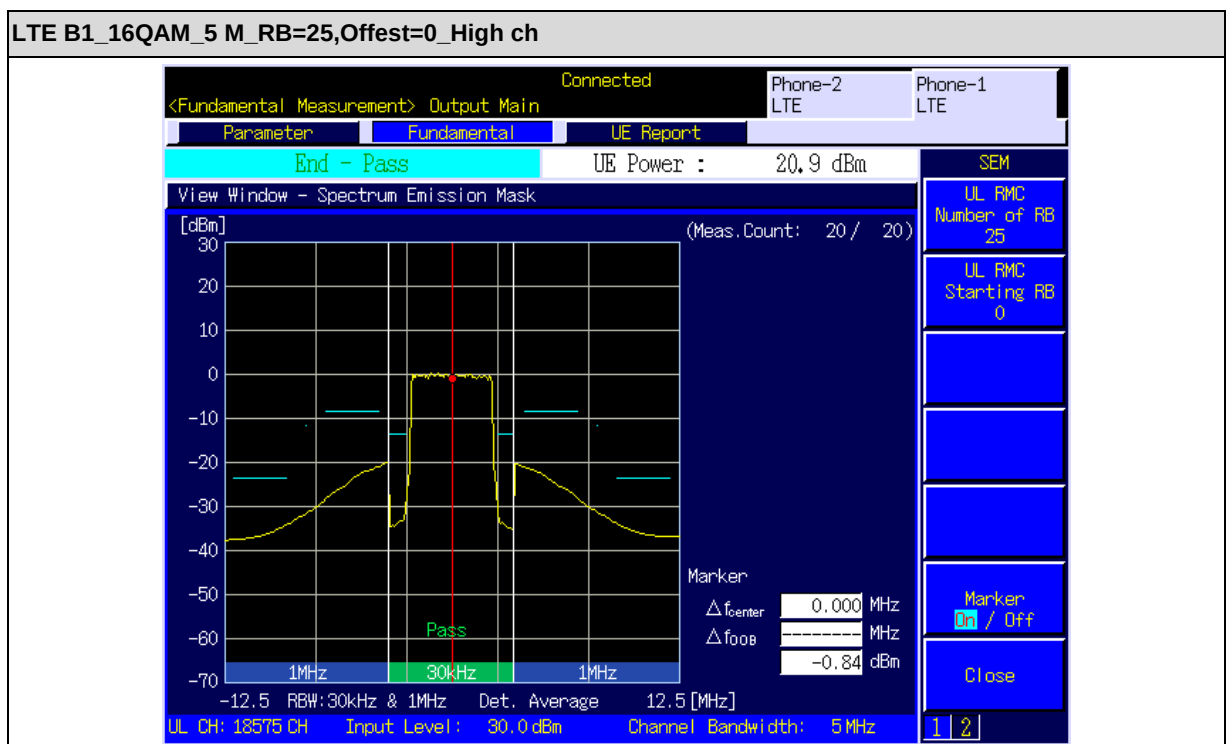


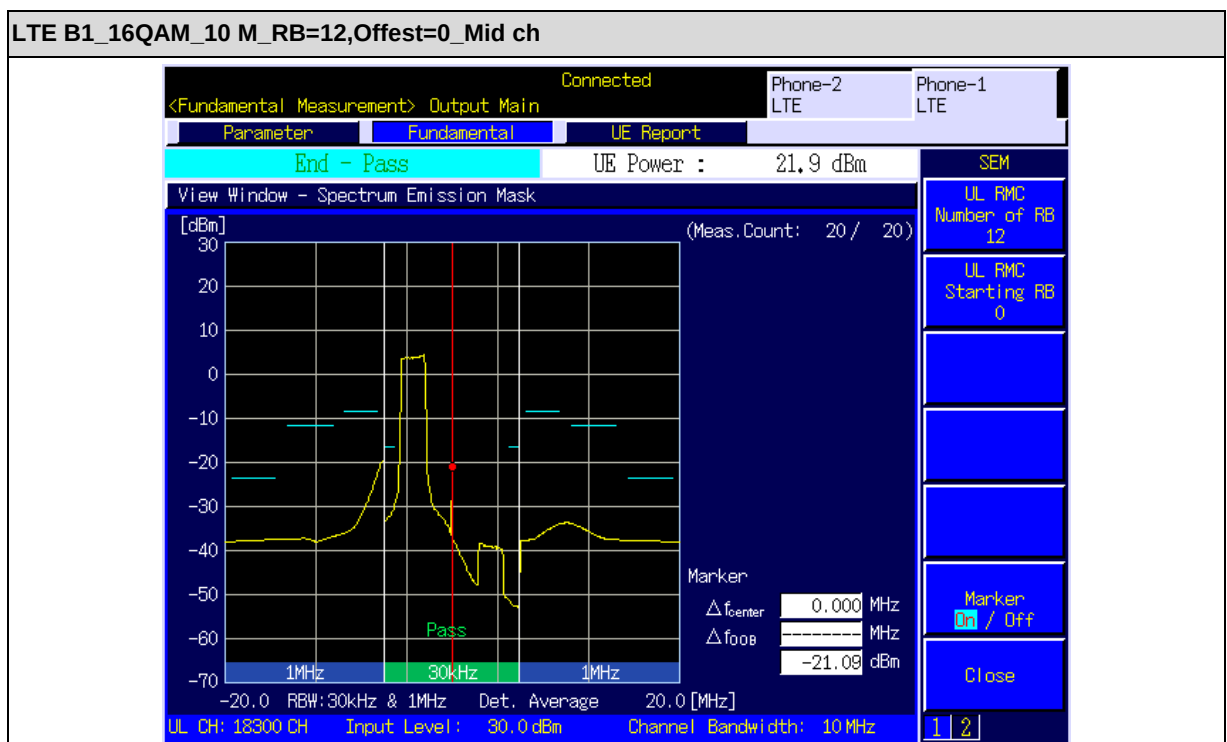


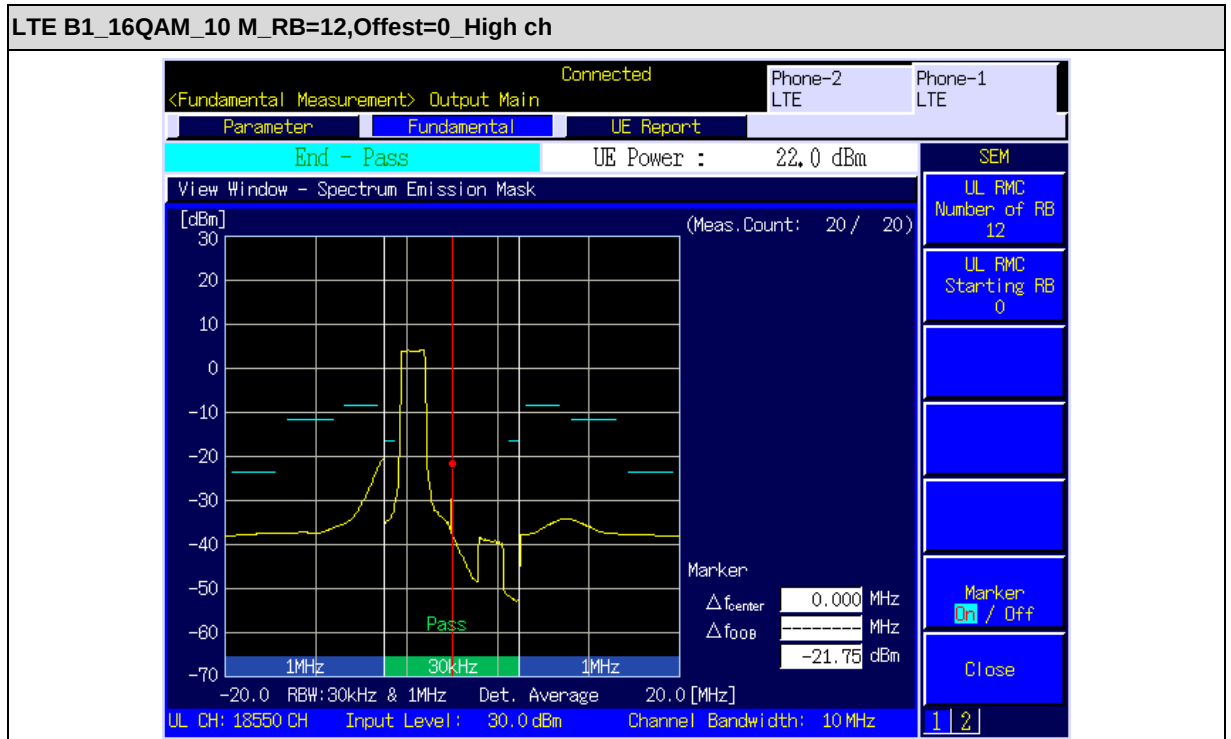


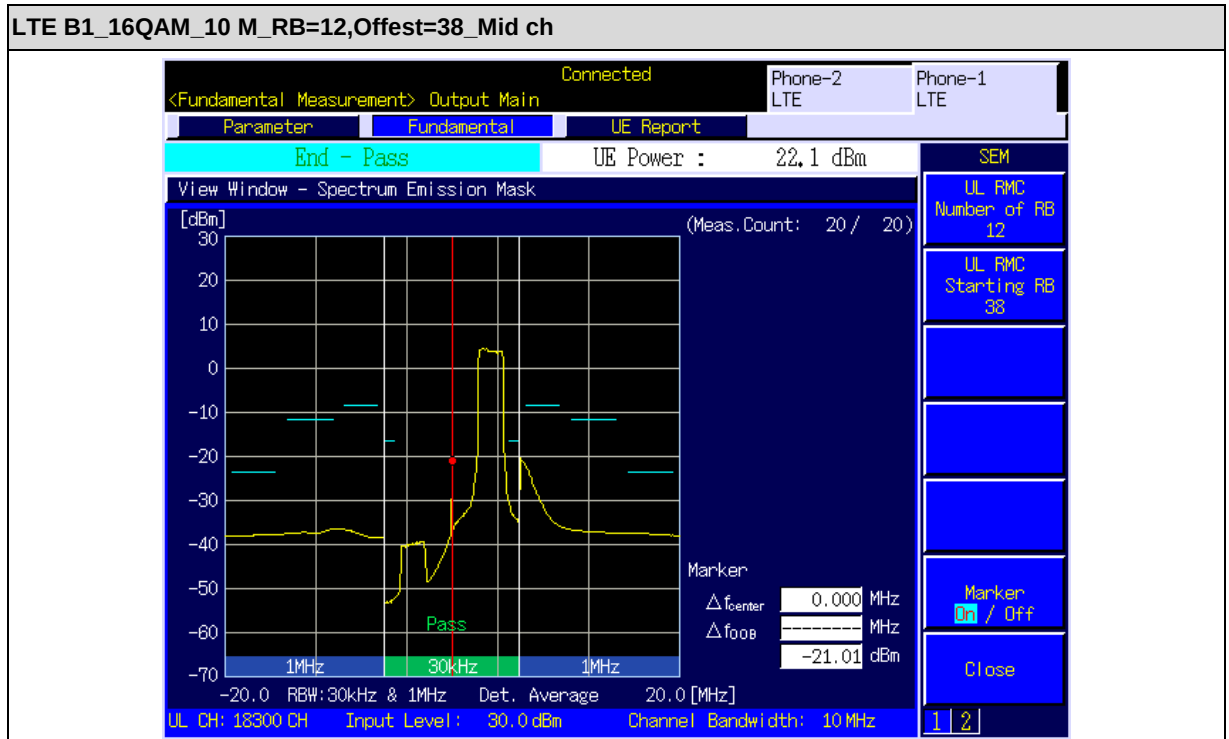
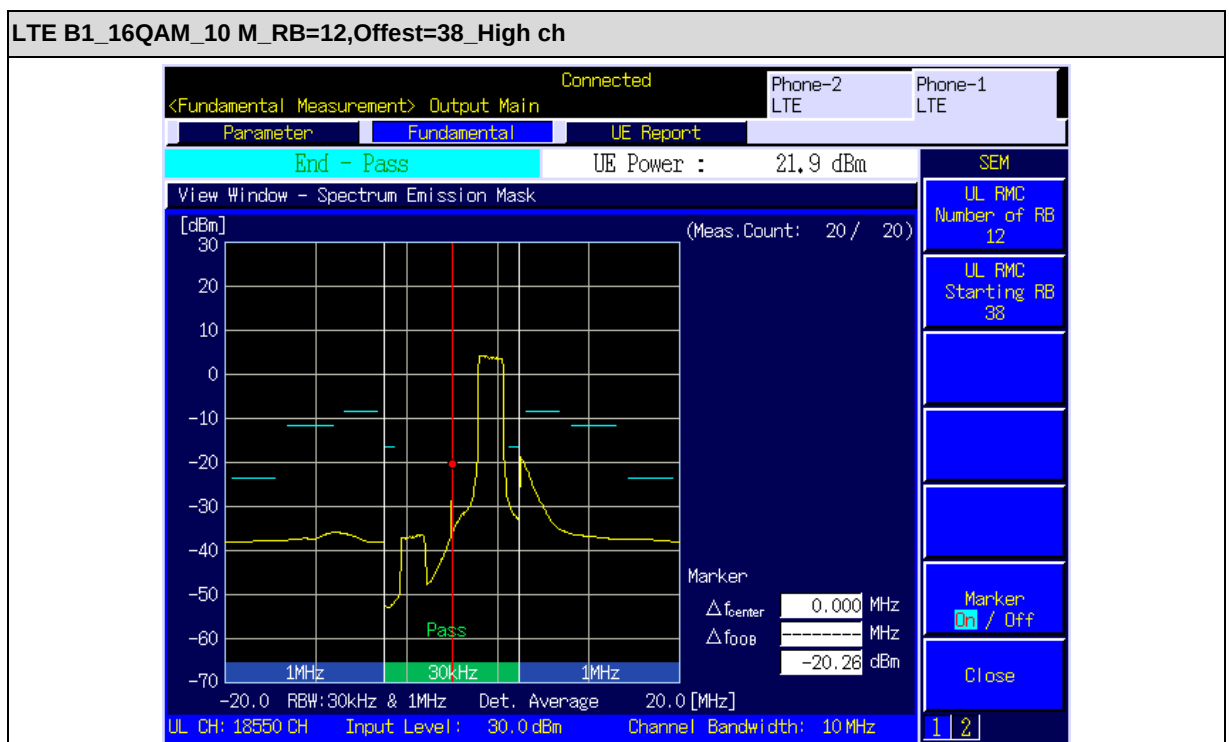


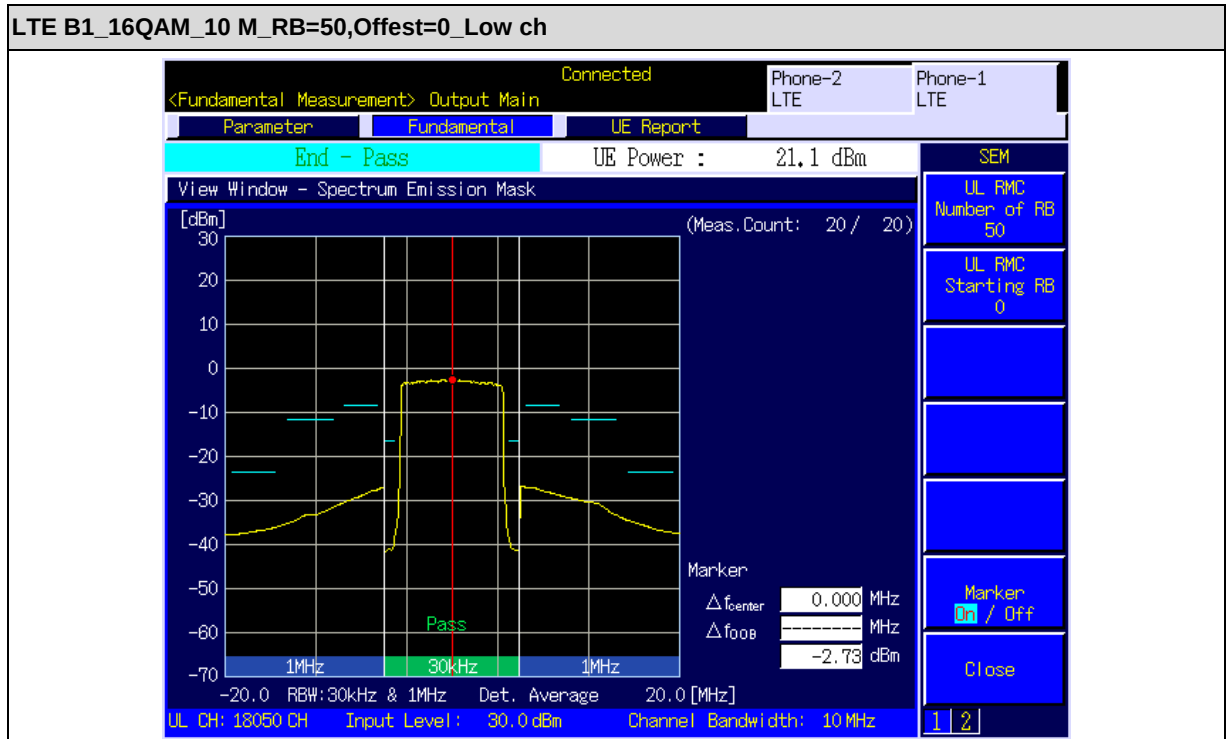


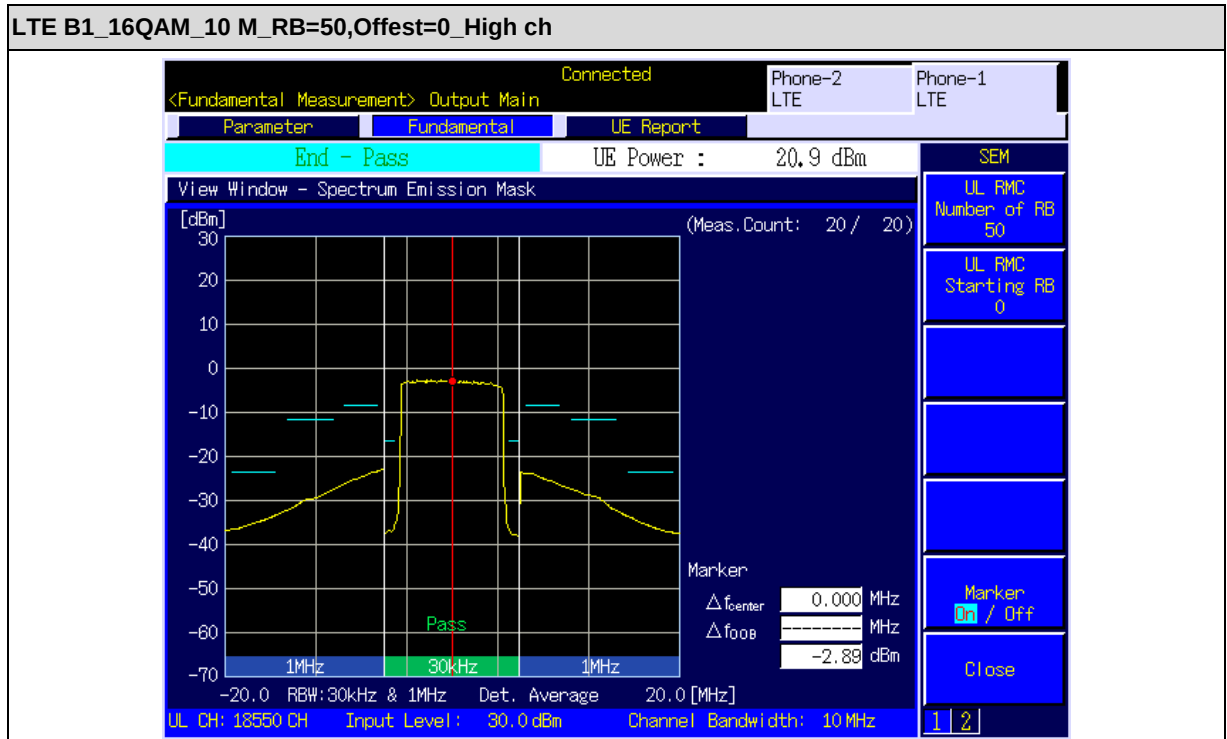
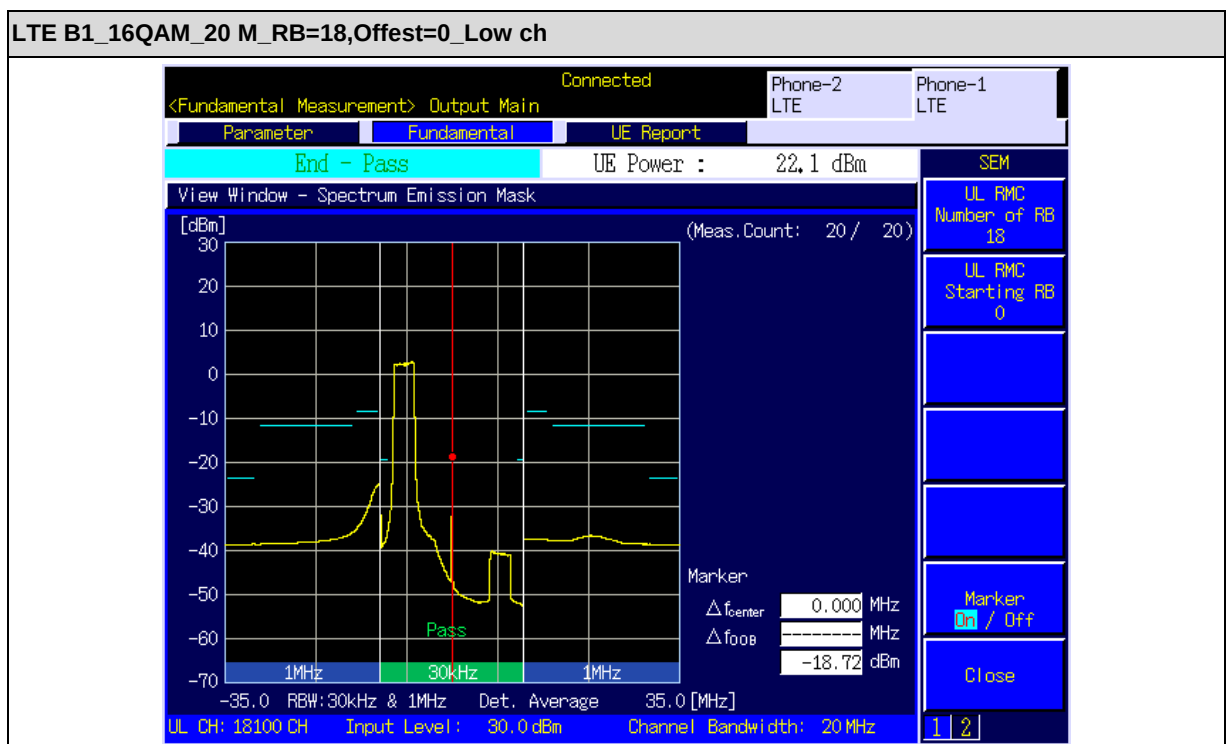


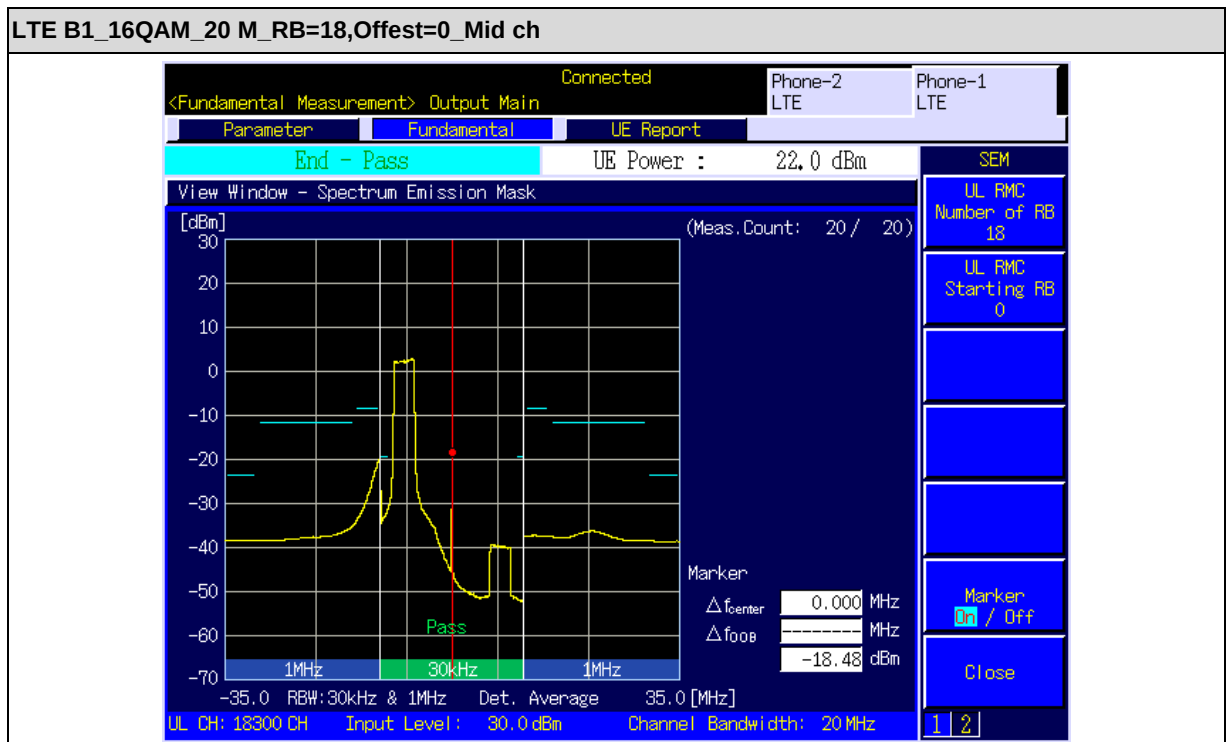
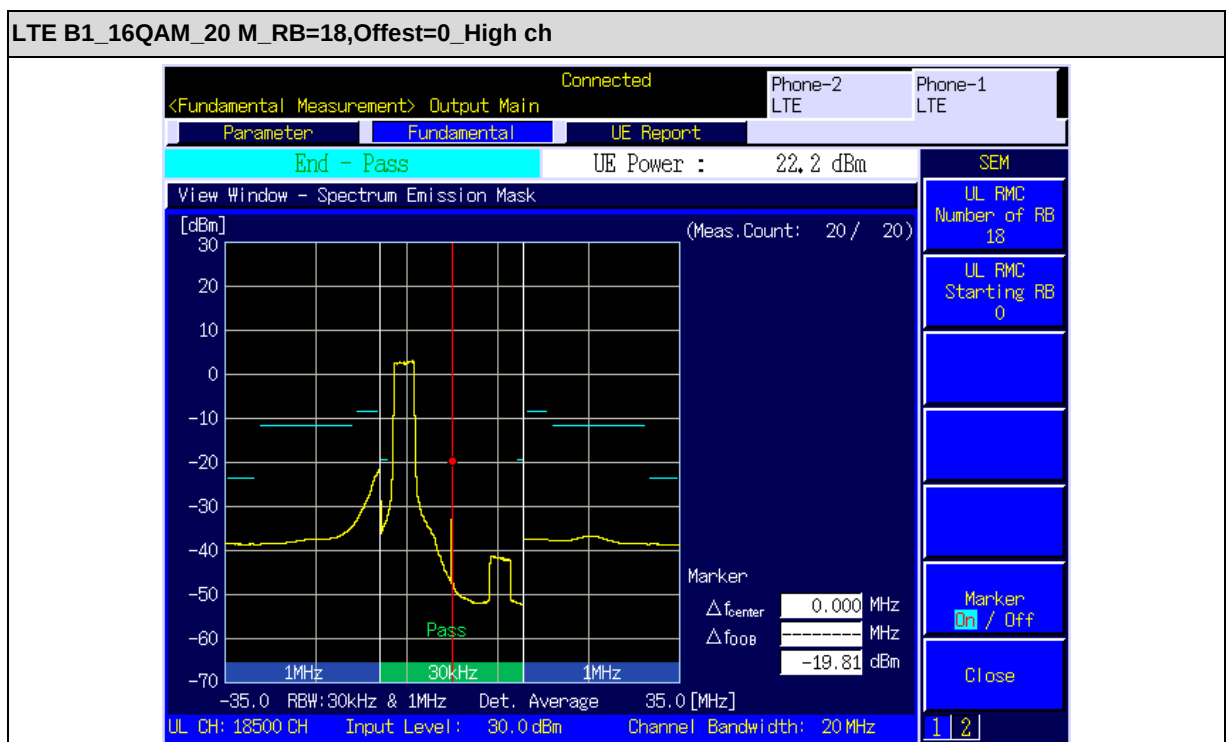


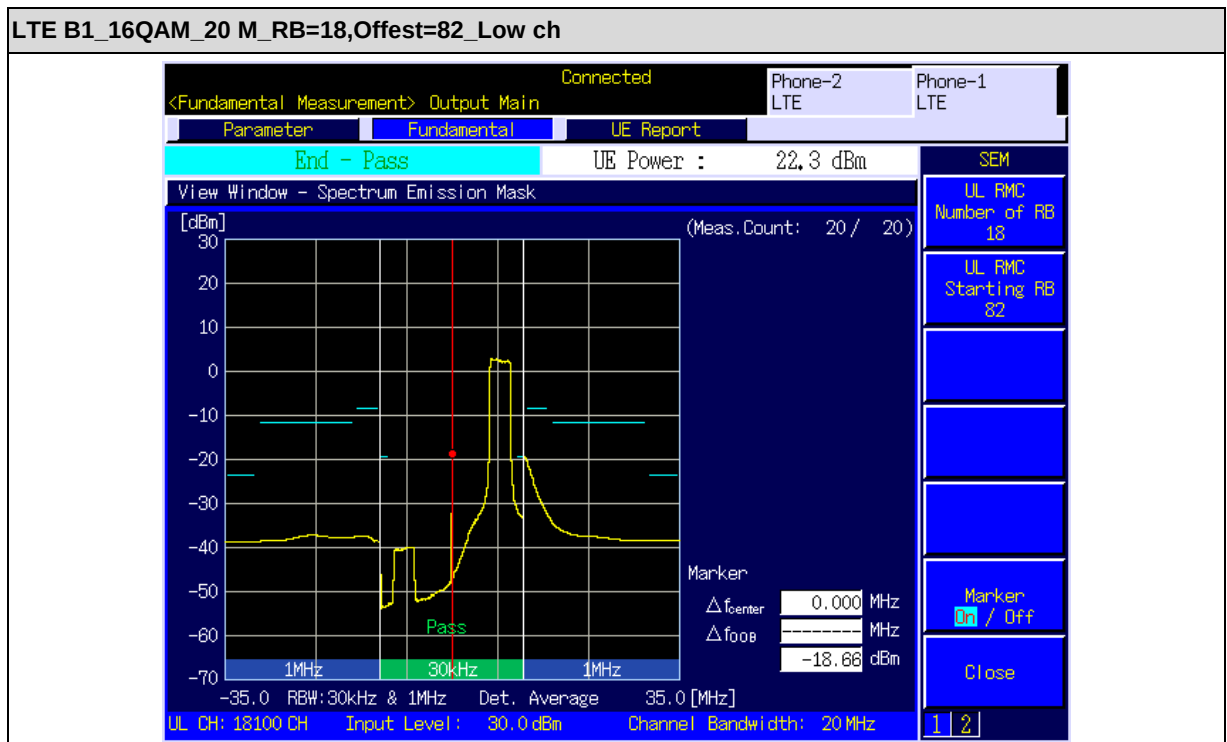
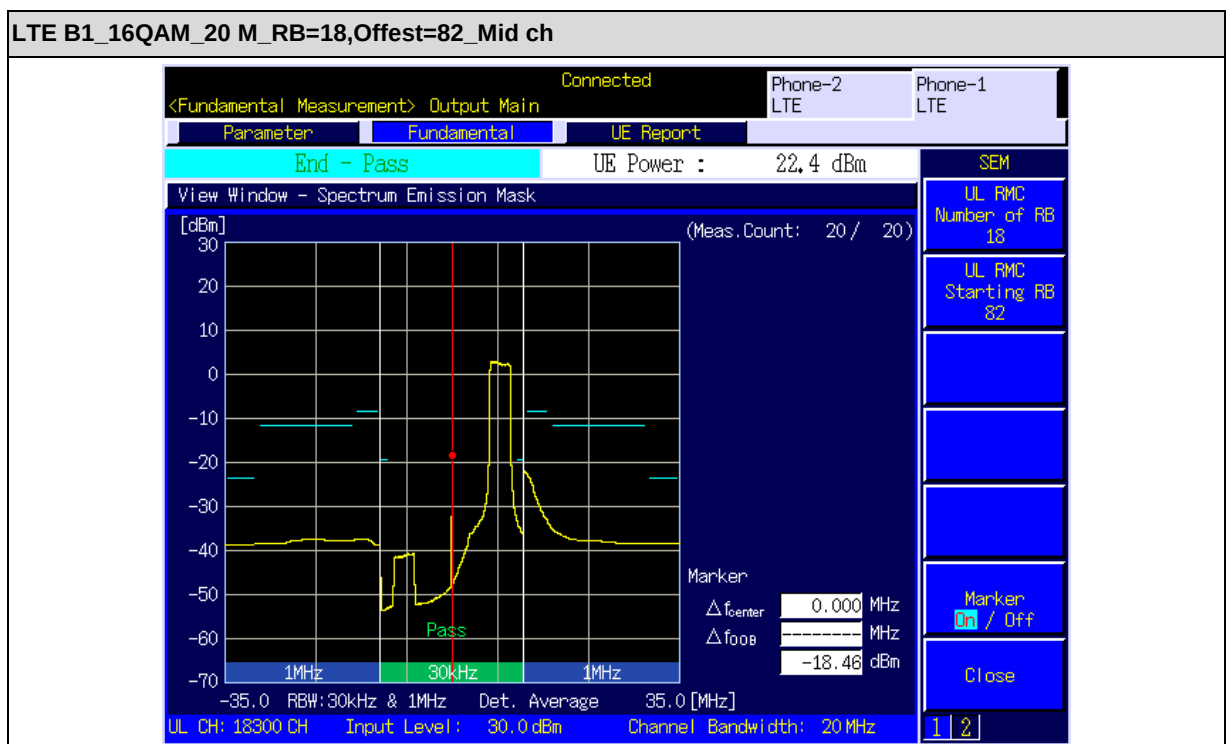


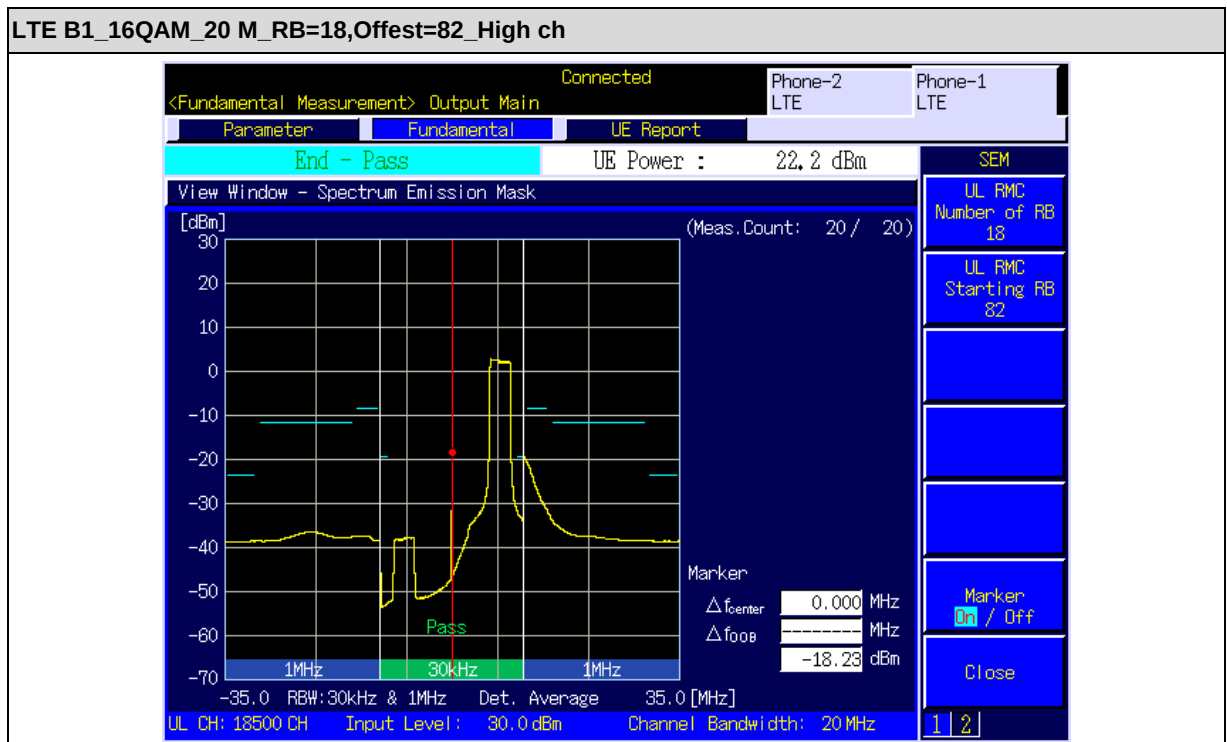


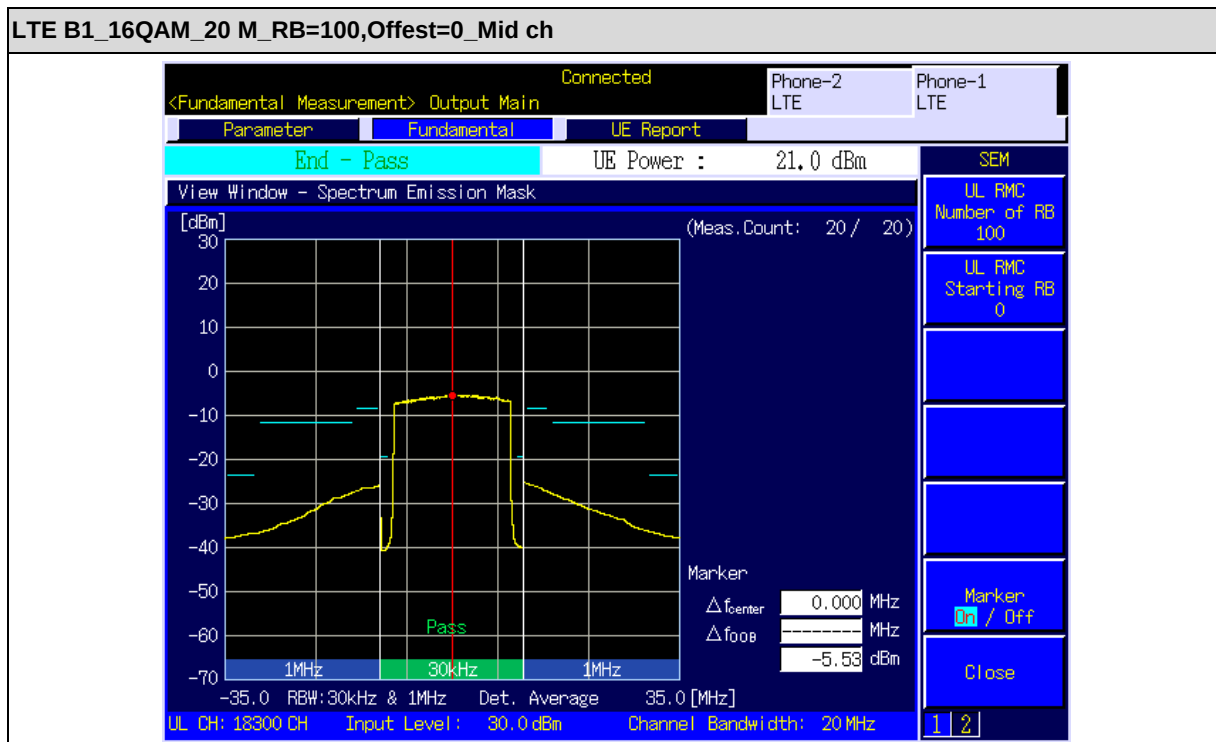
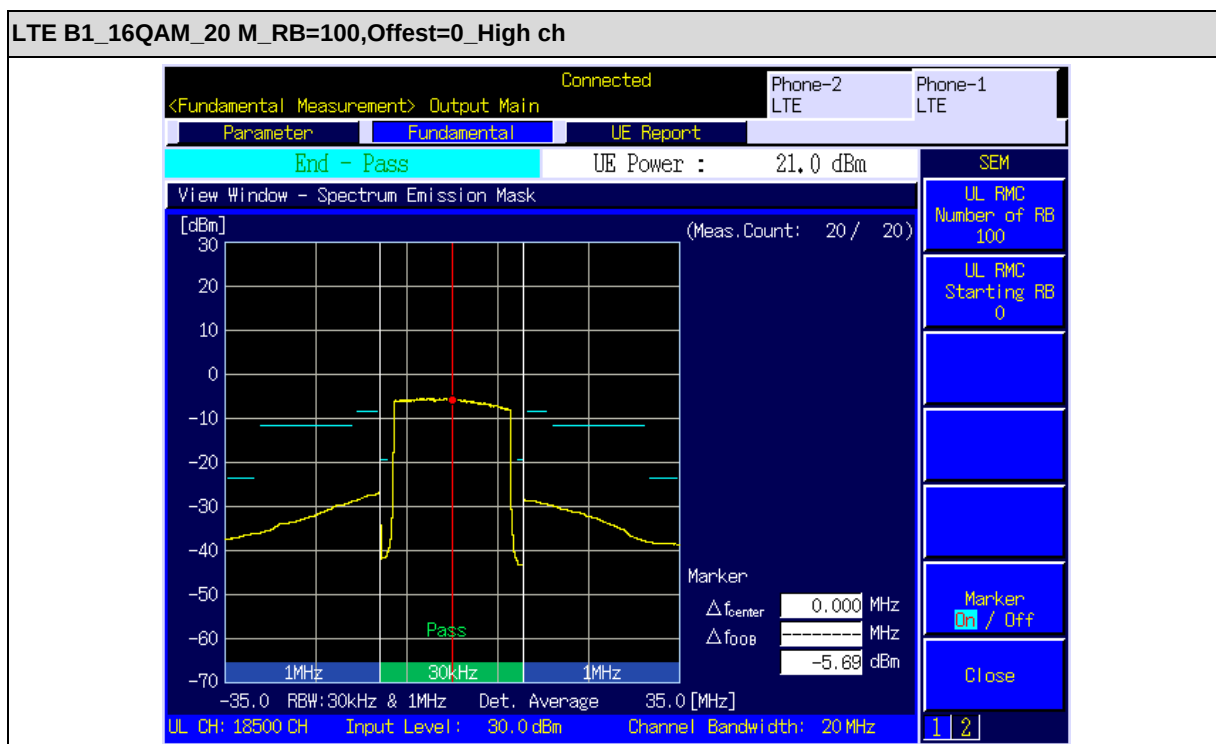




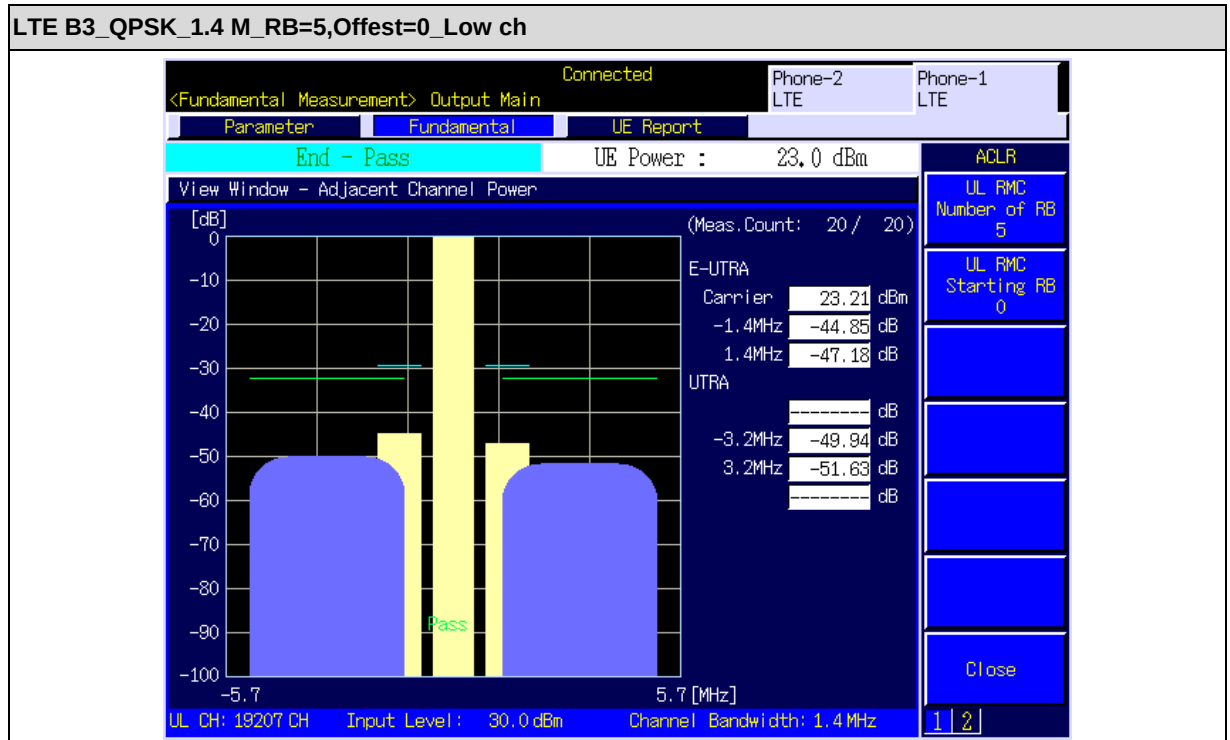
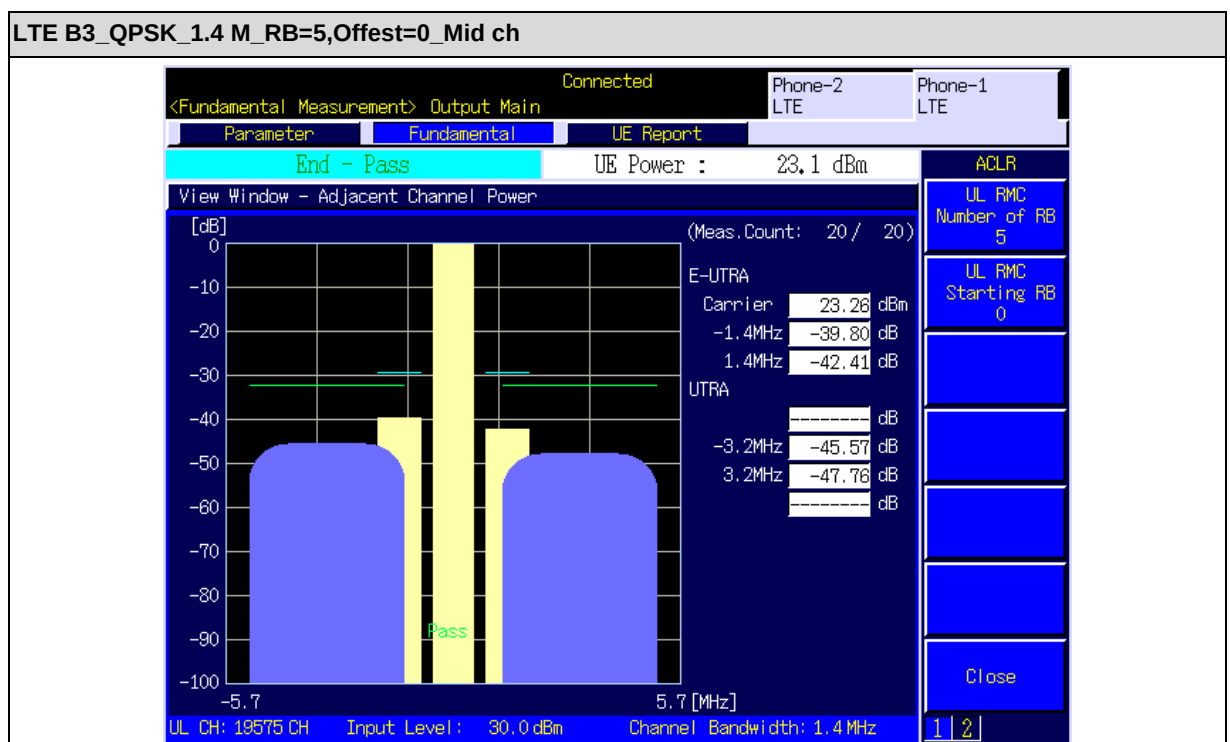


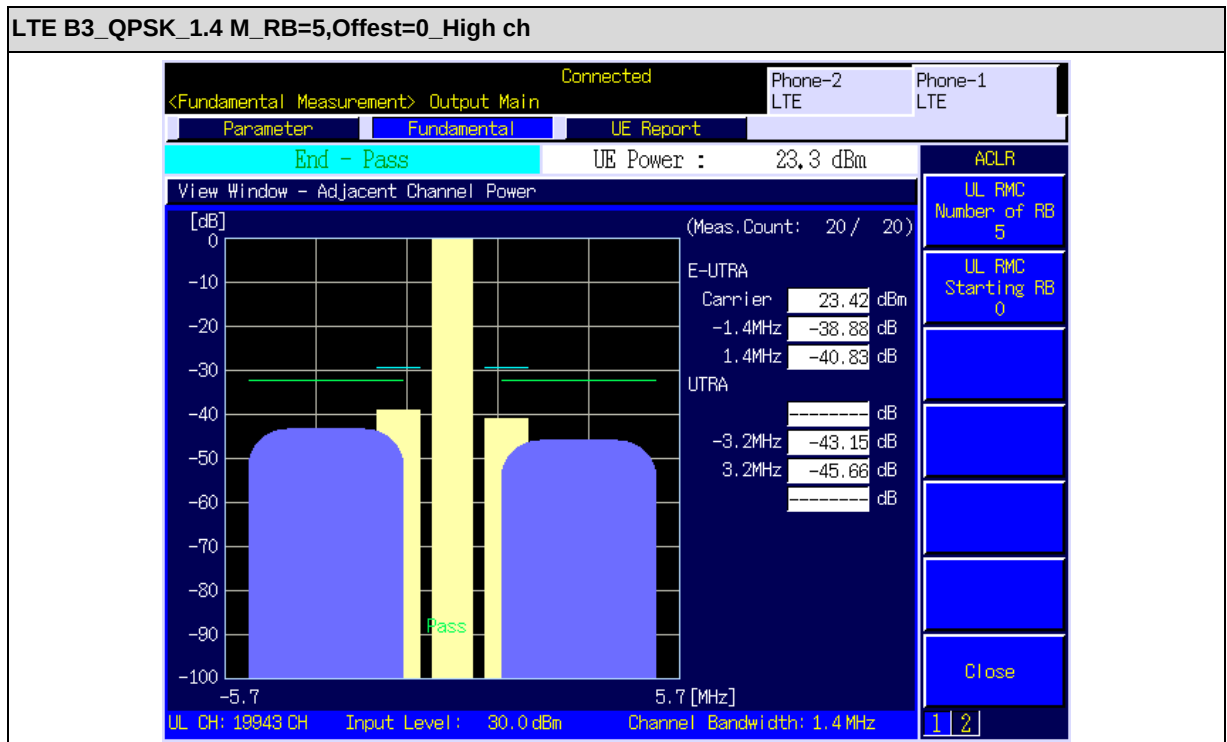
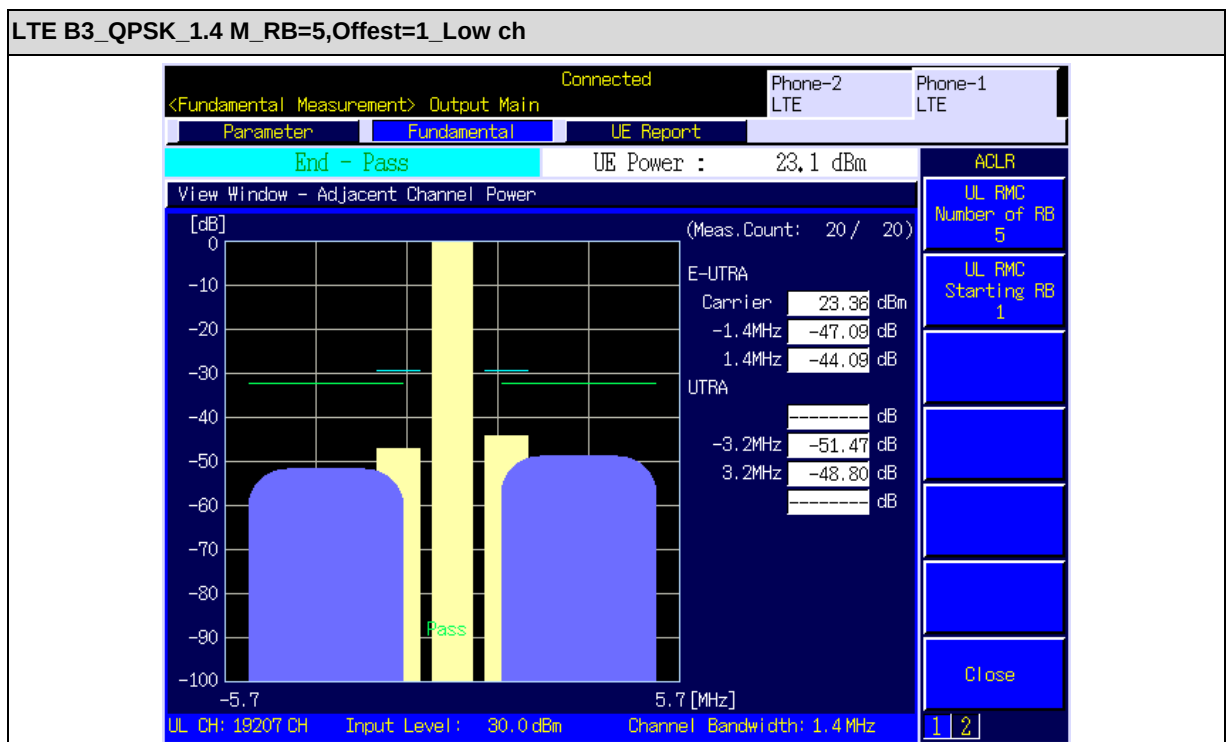


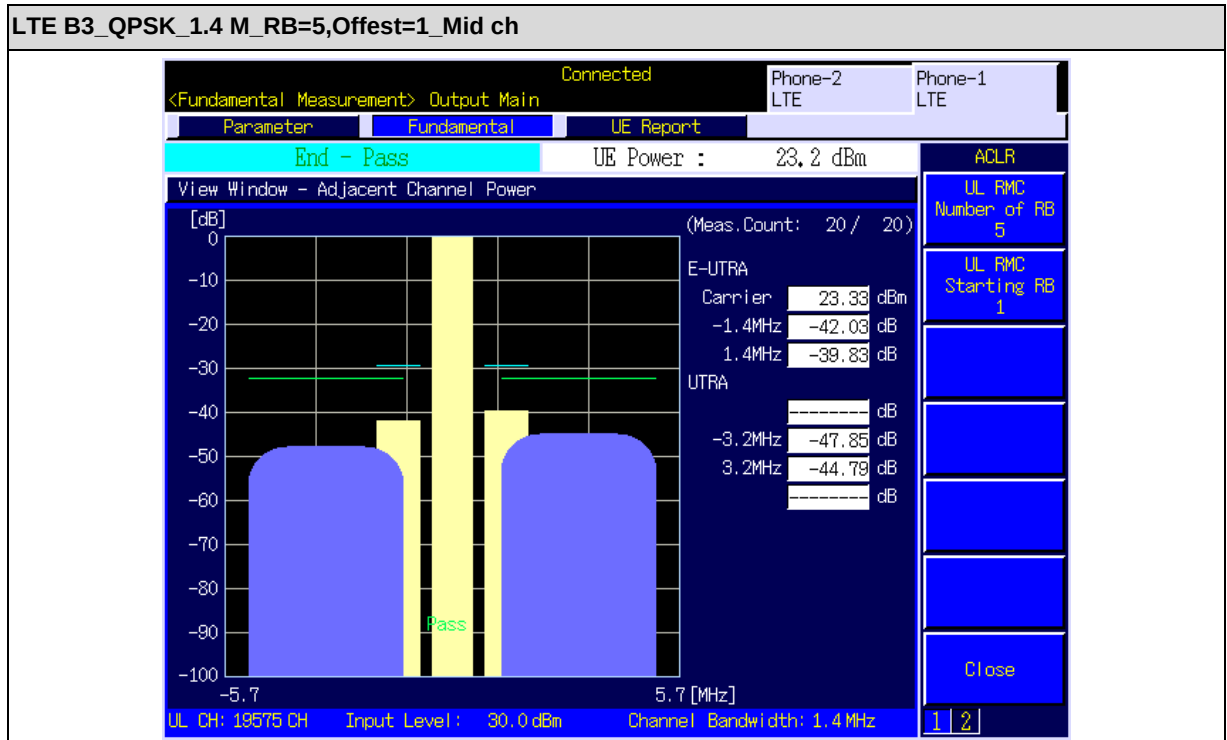
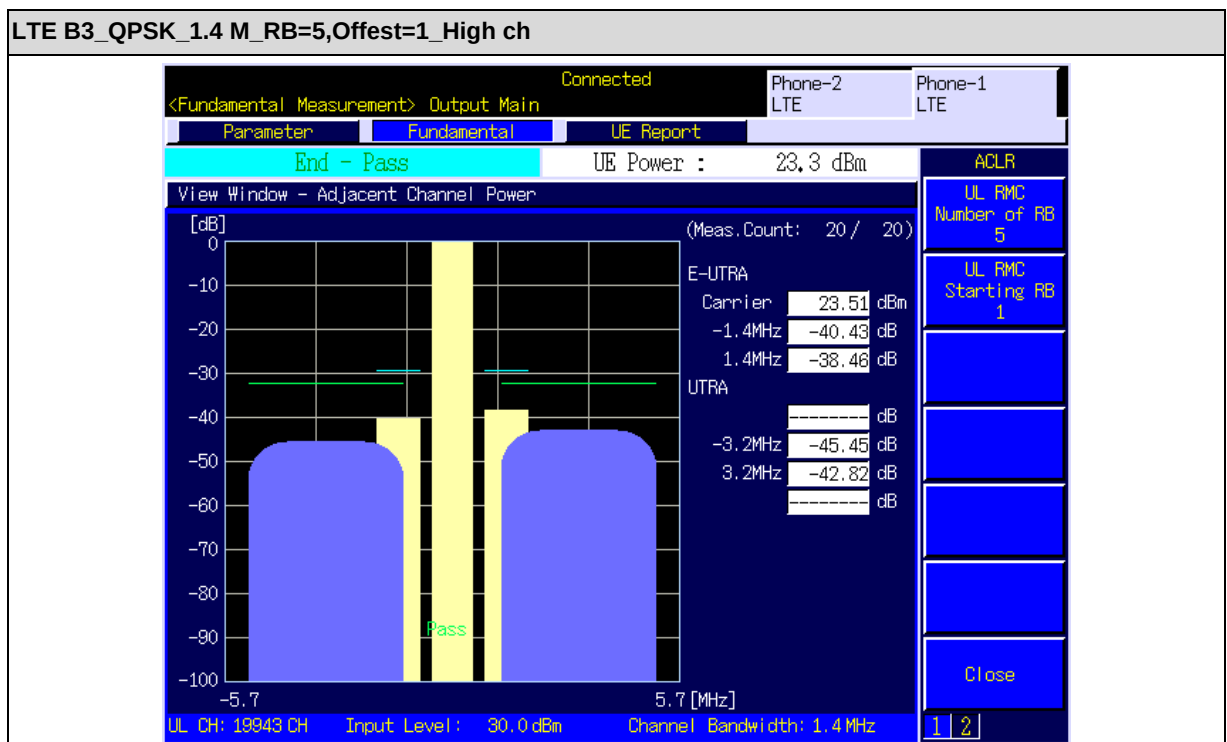


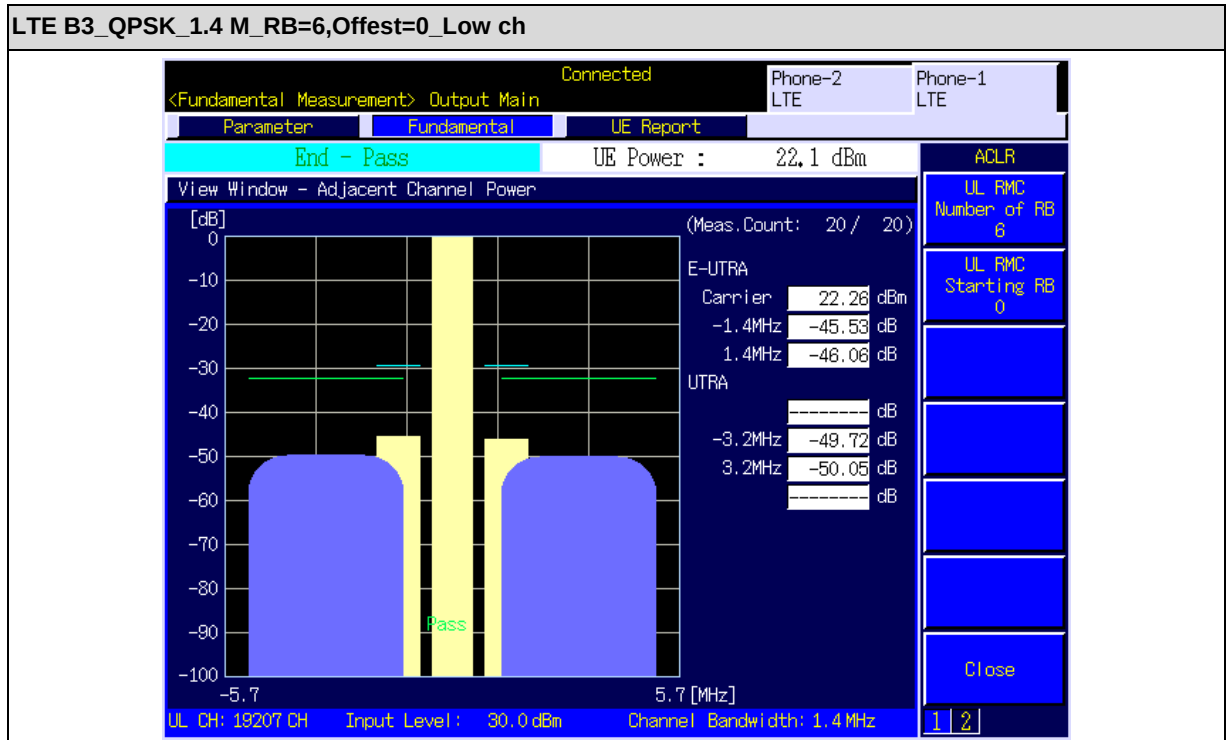
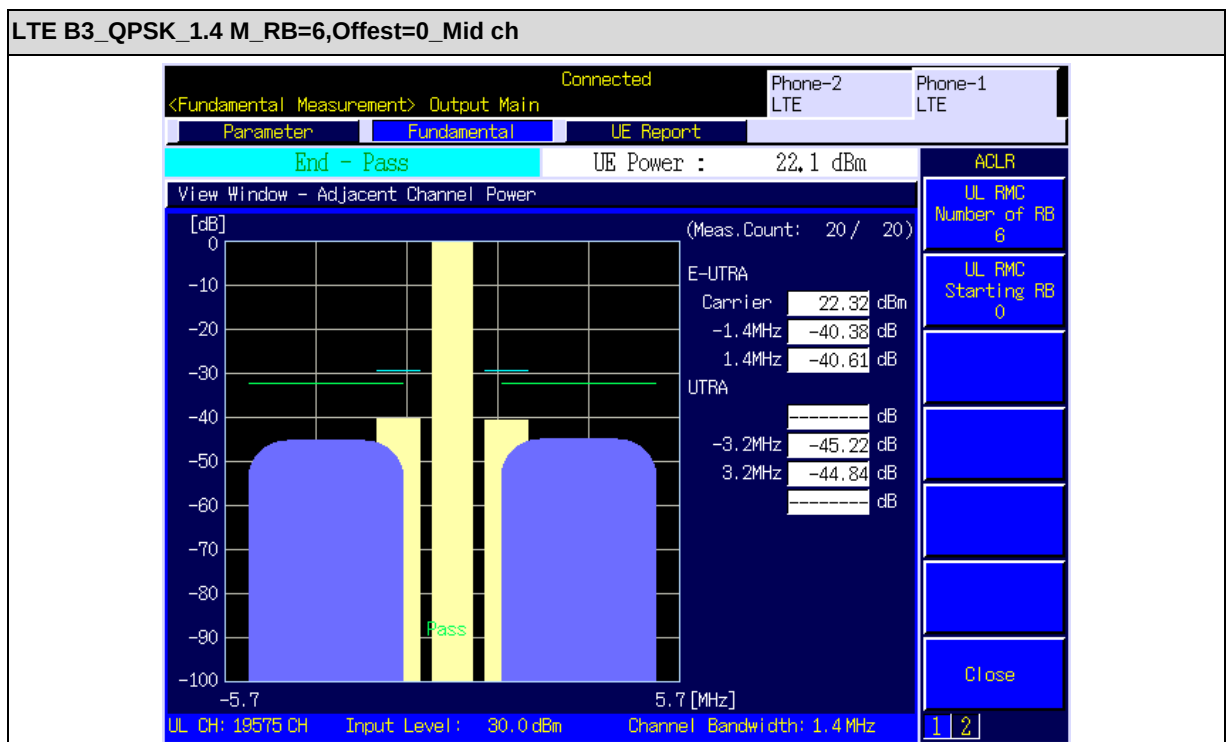


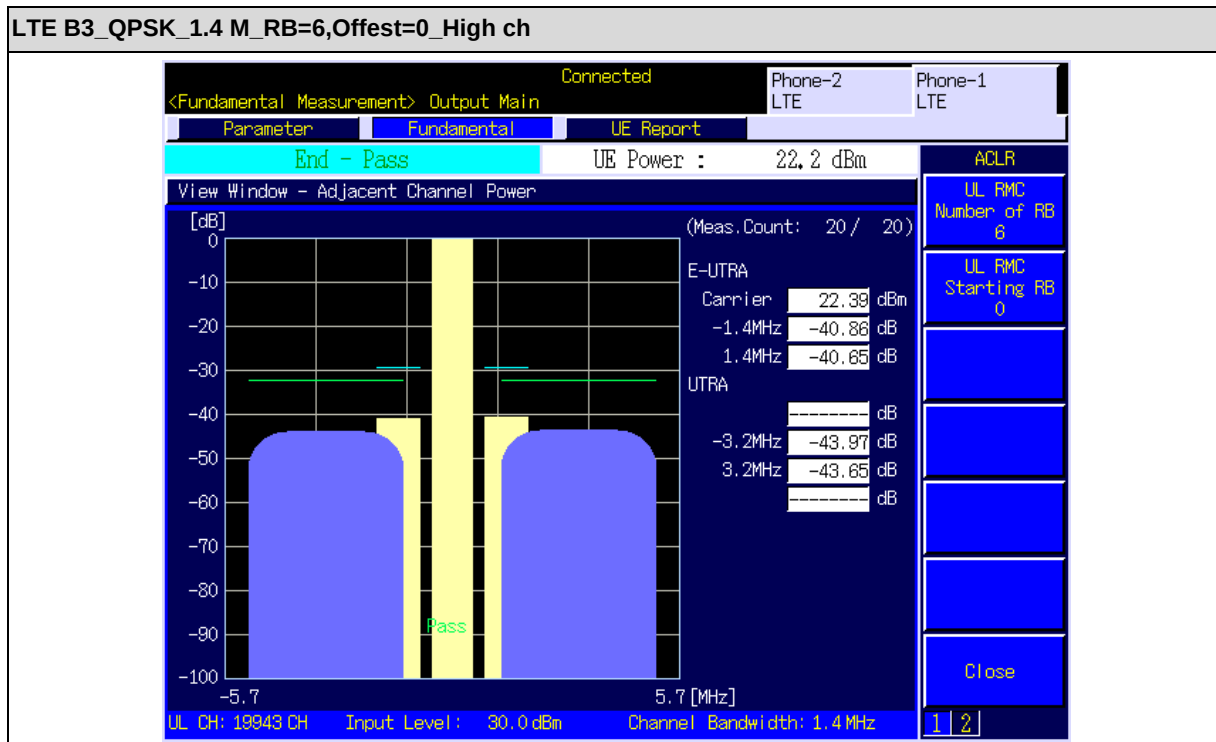
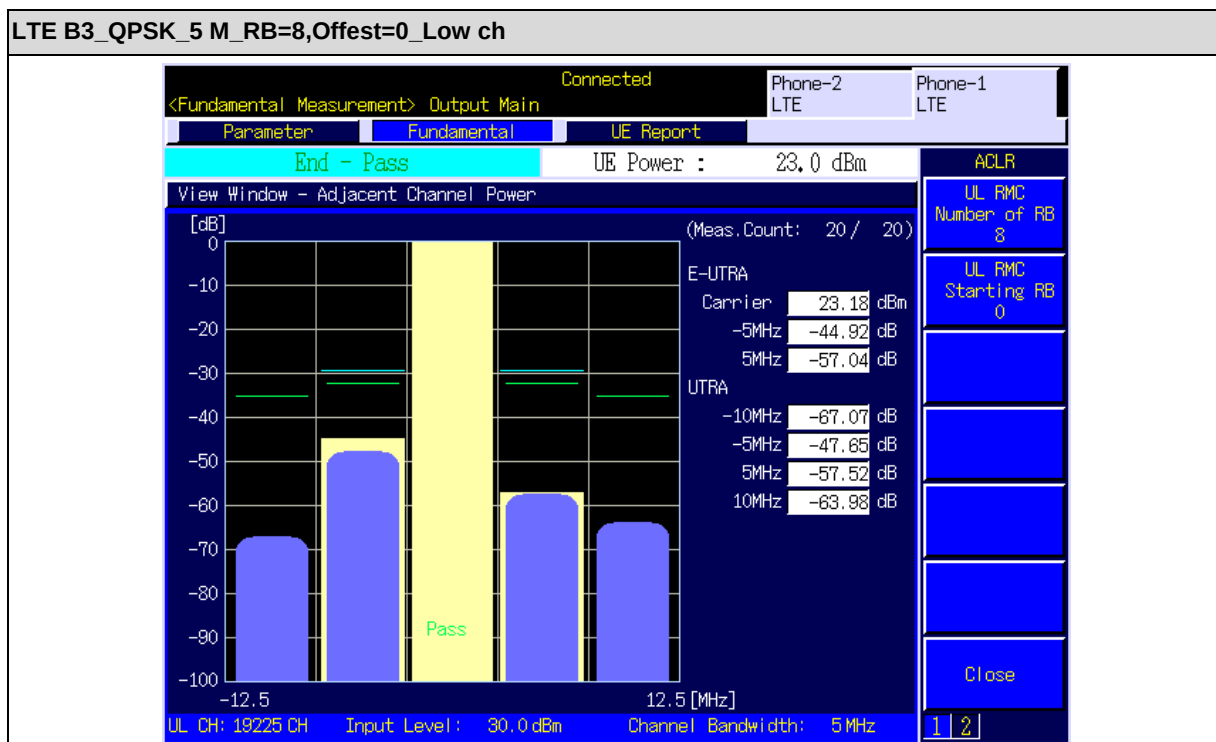
4.2.2 ACLR

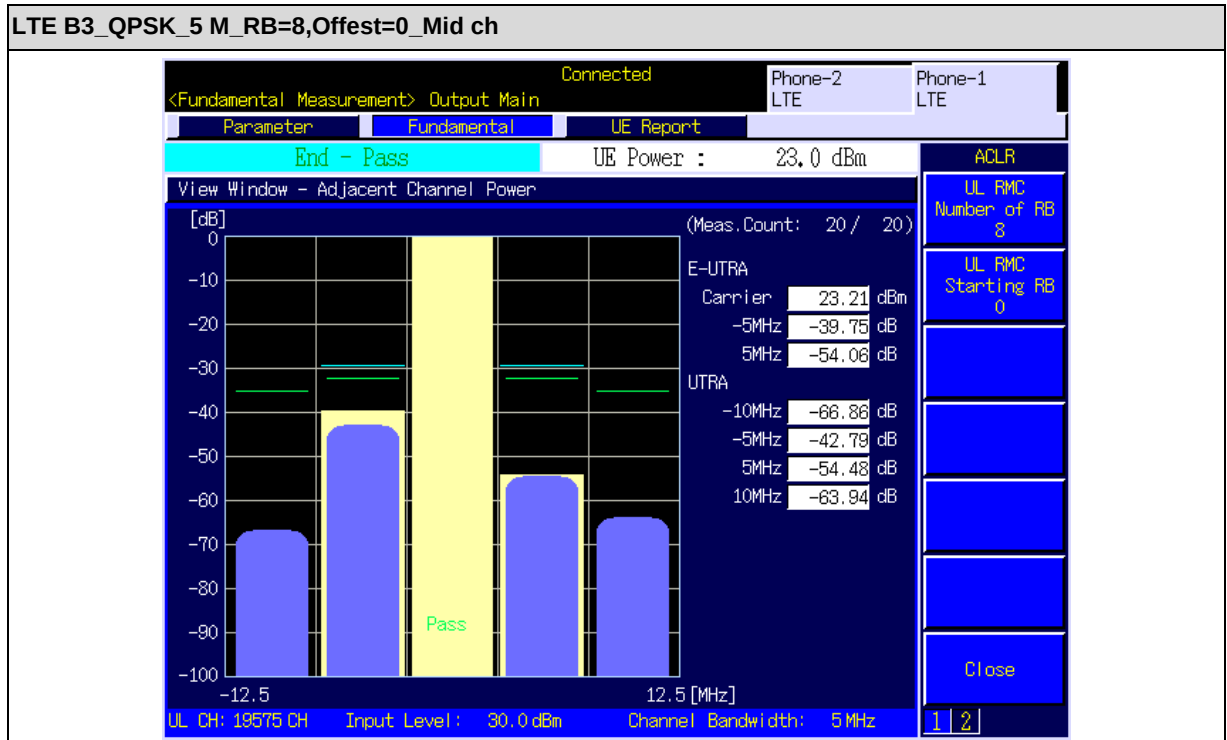
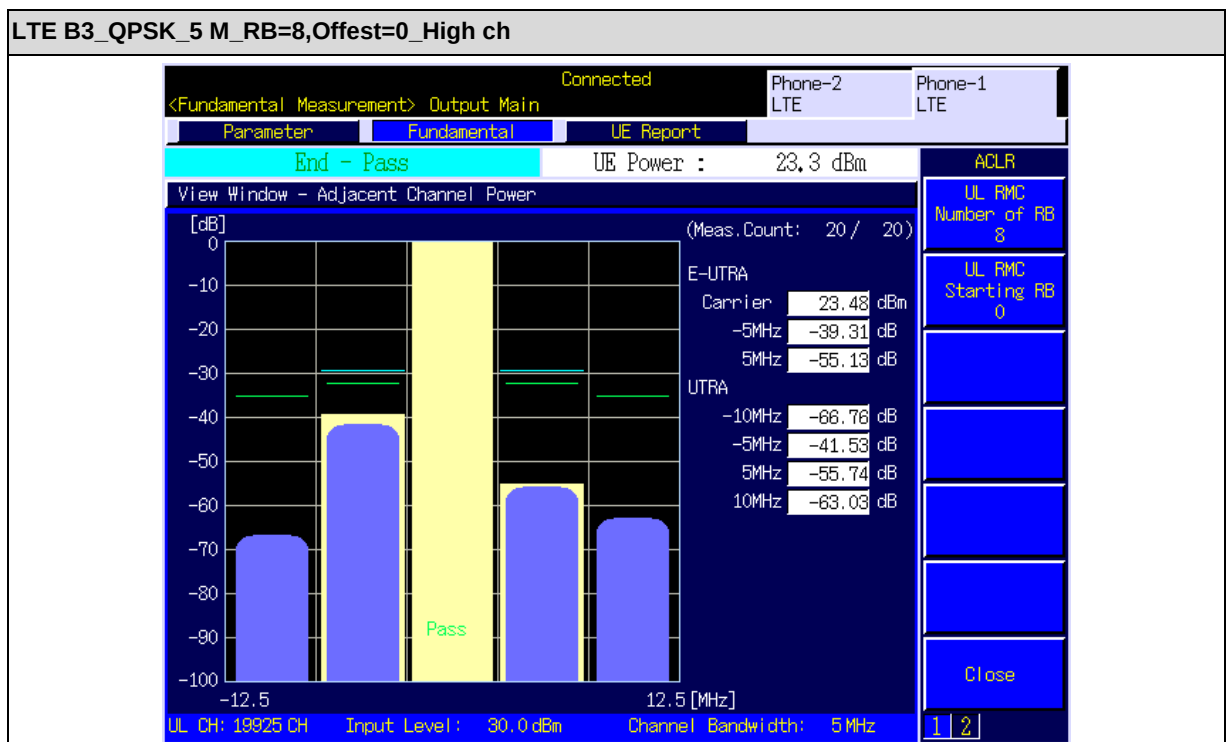


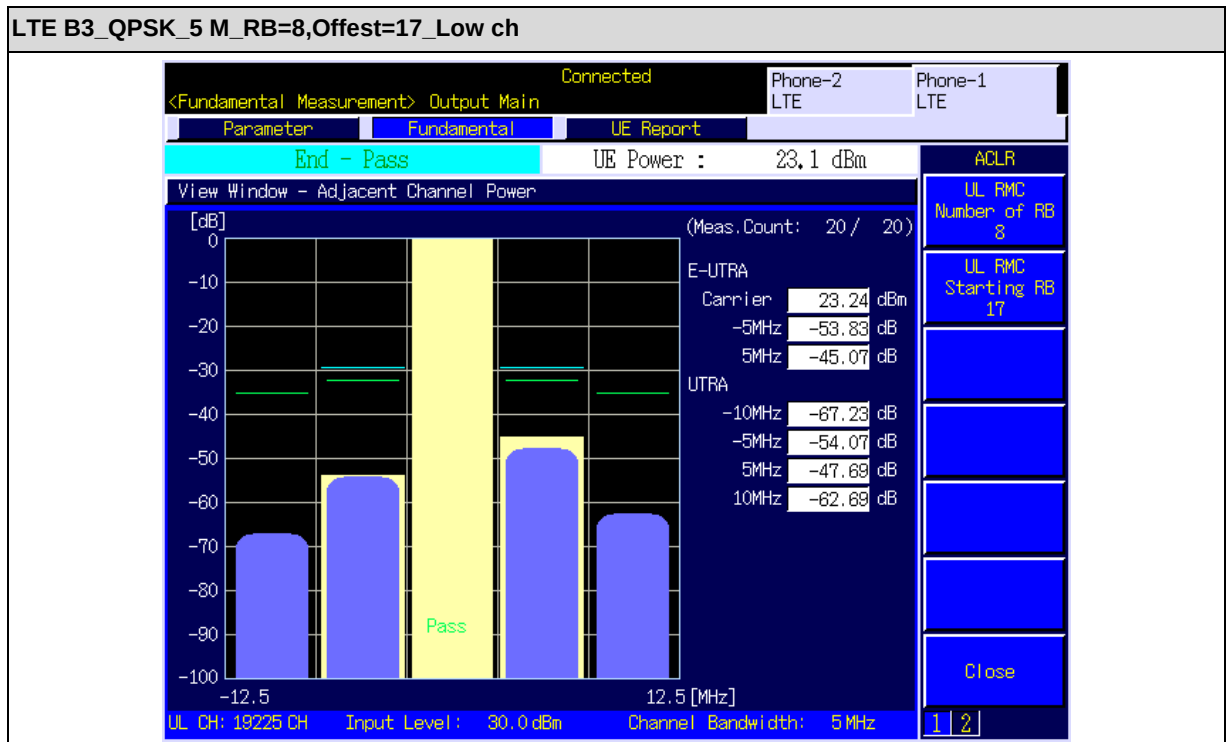
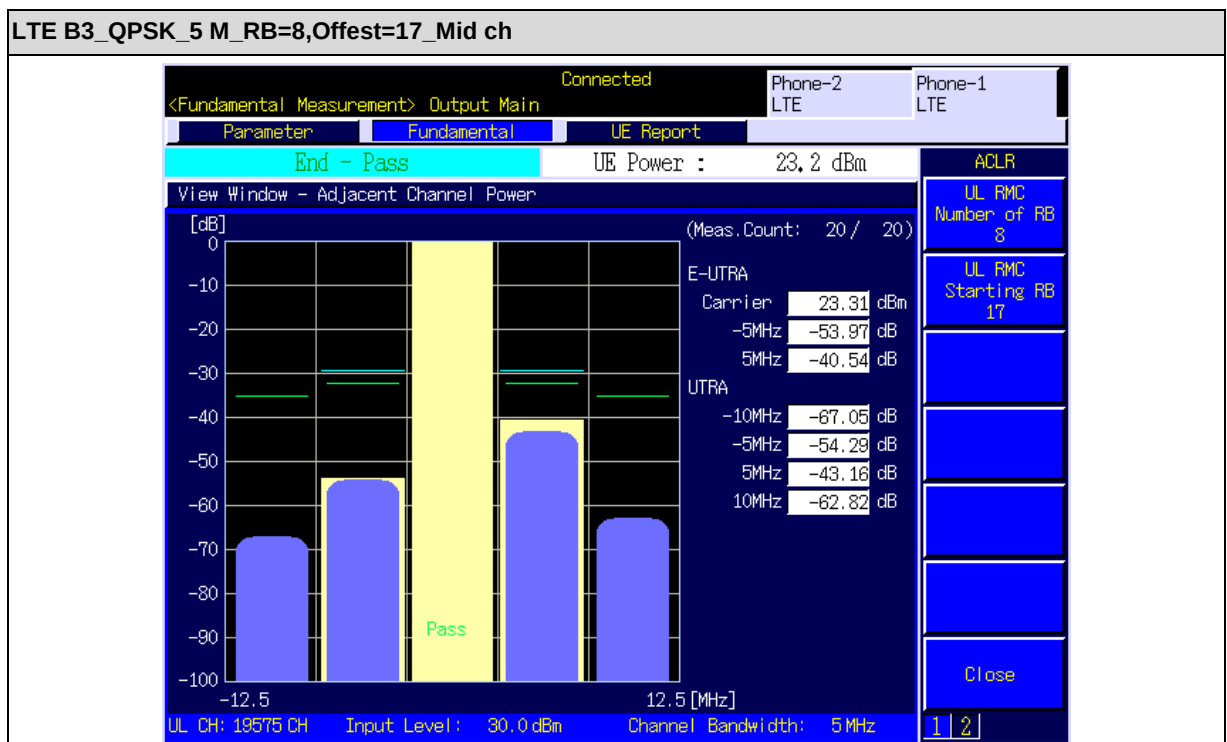


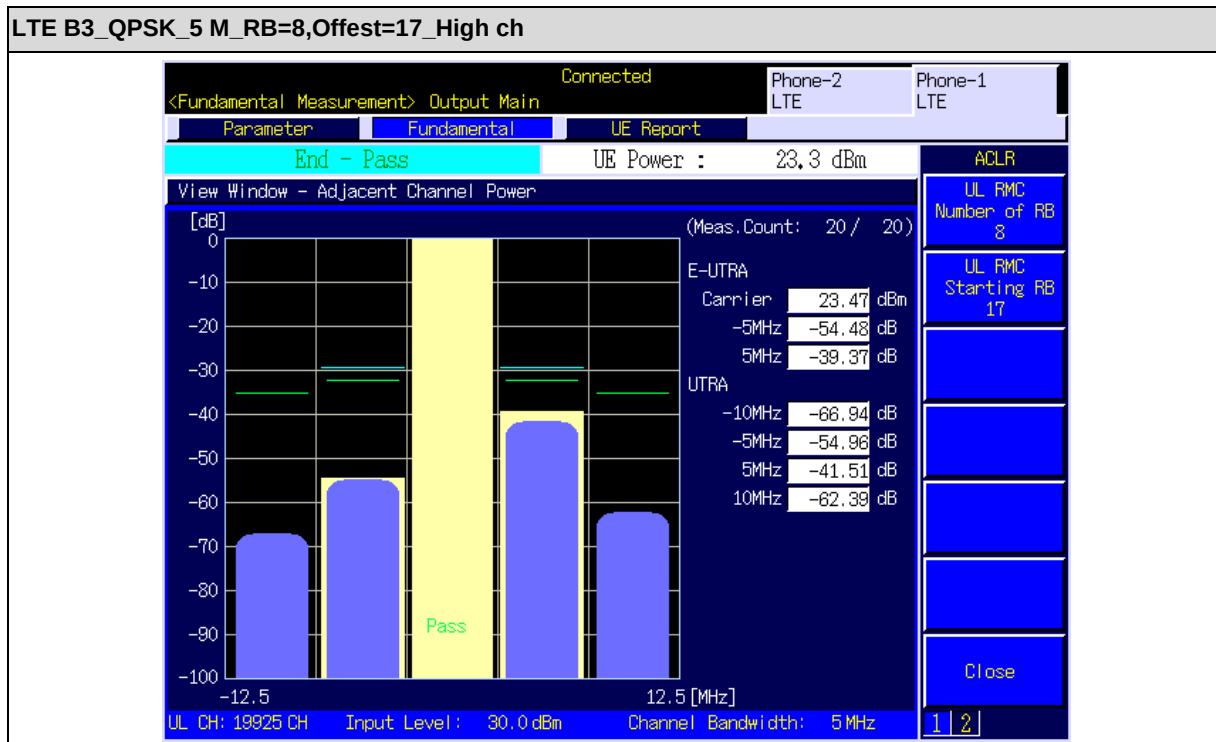
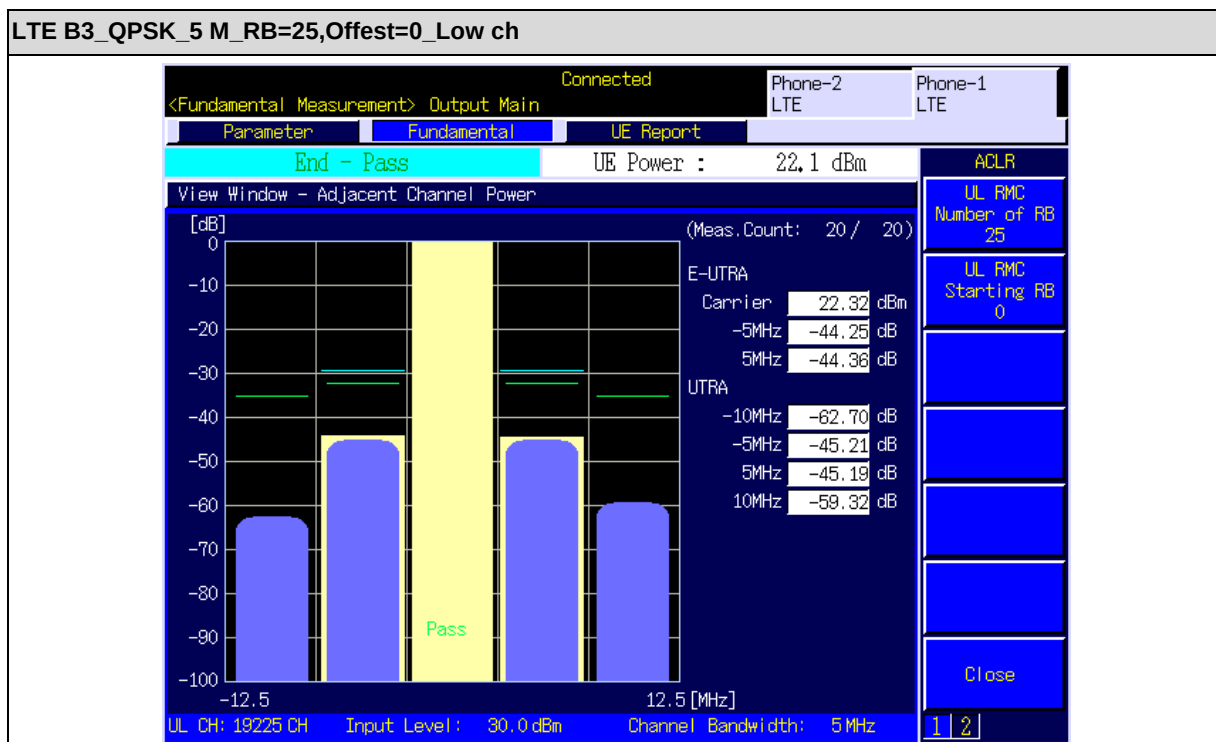


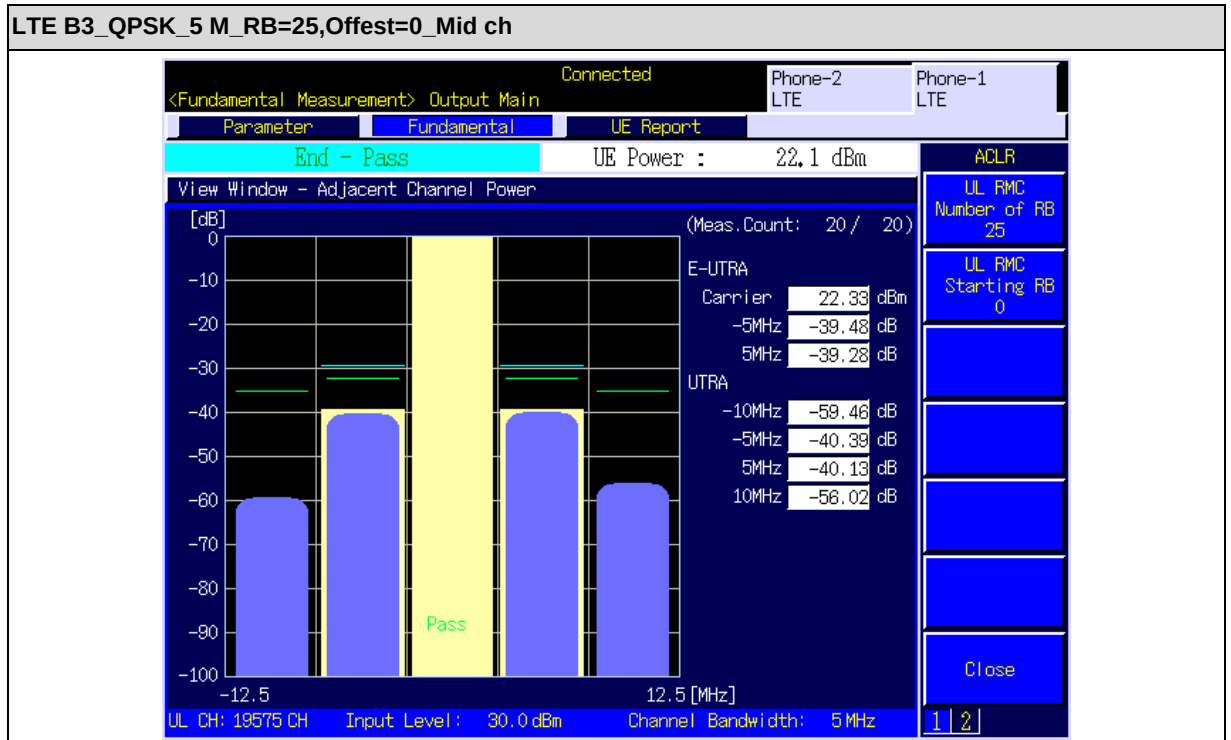
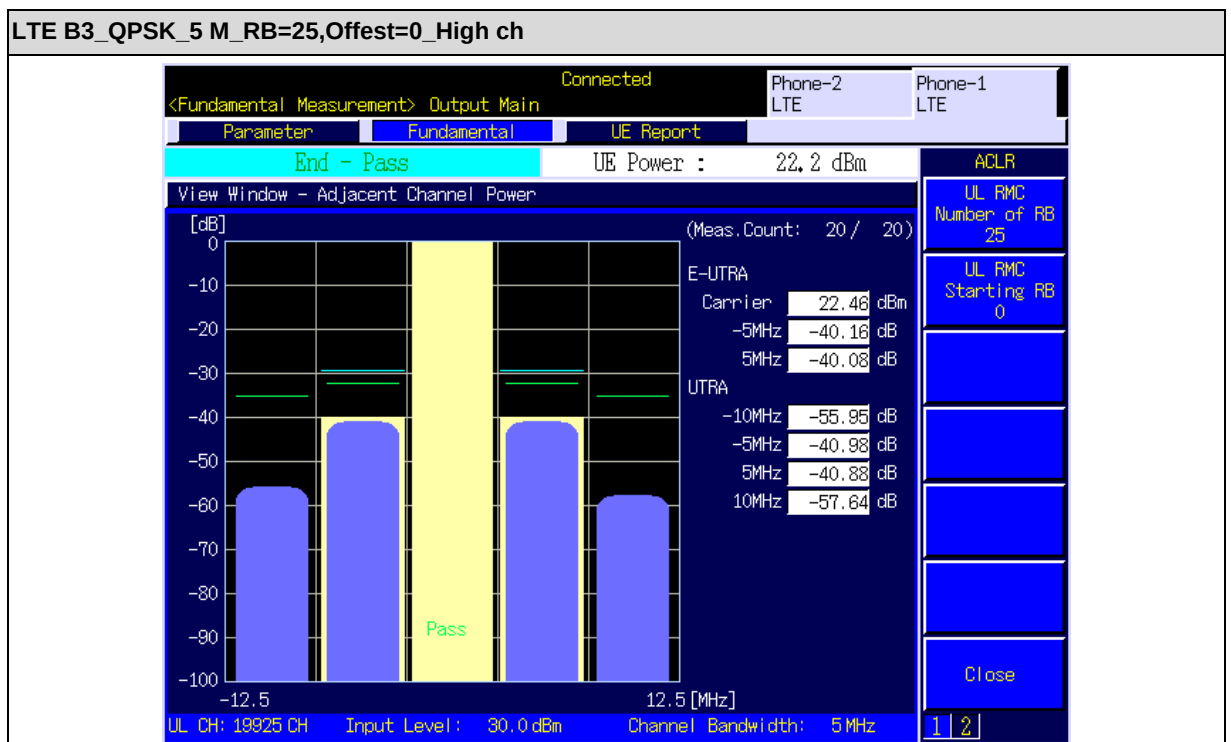


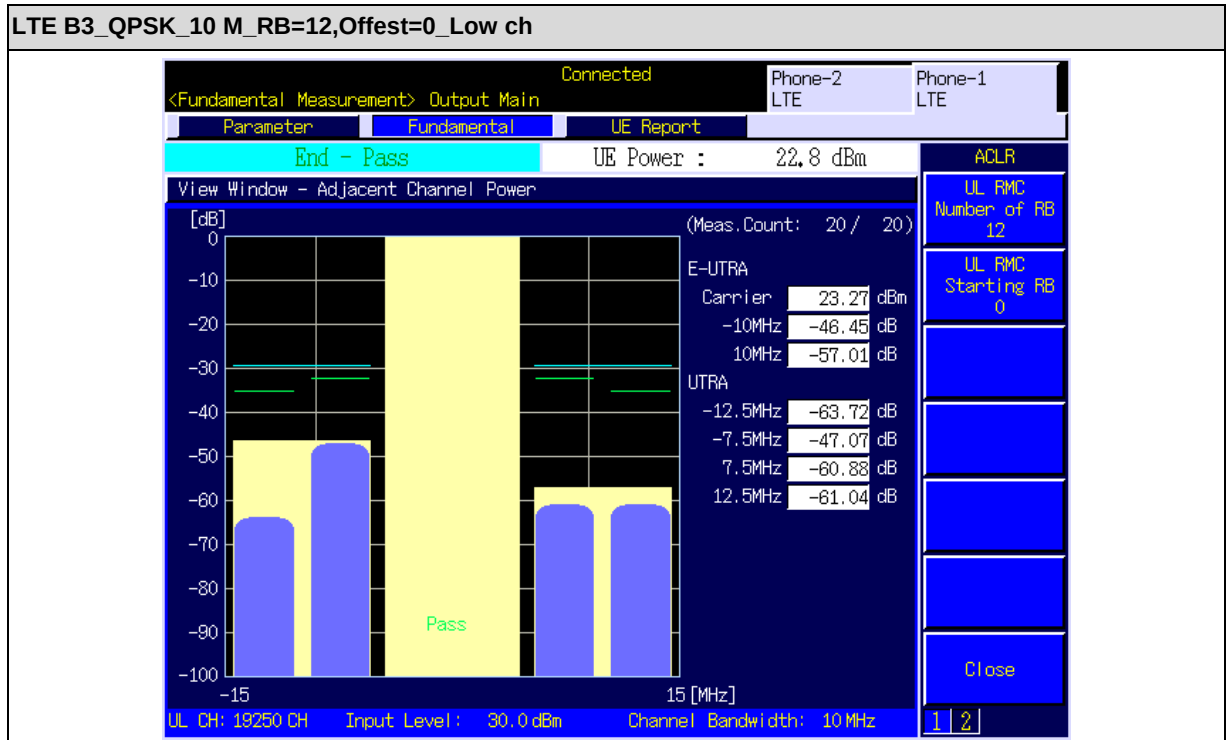
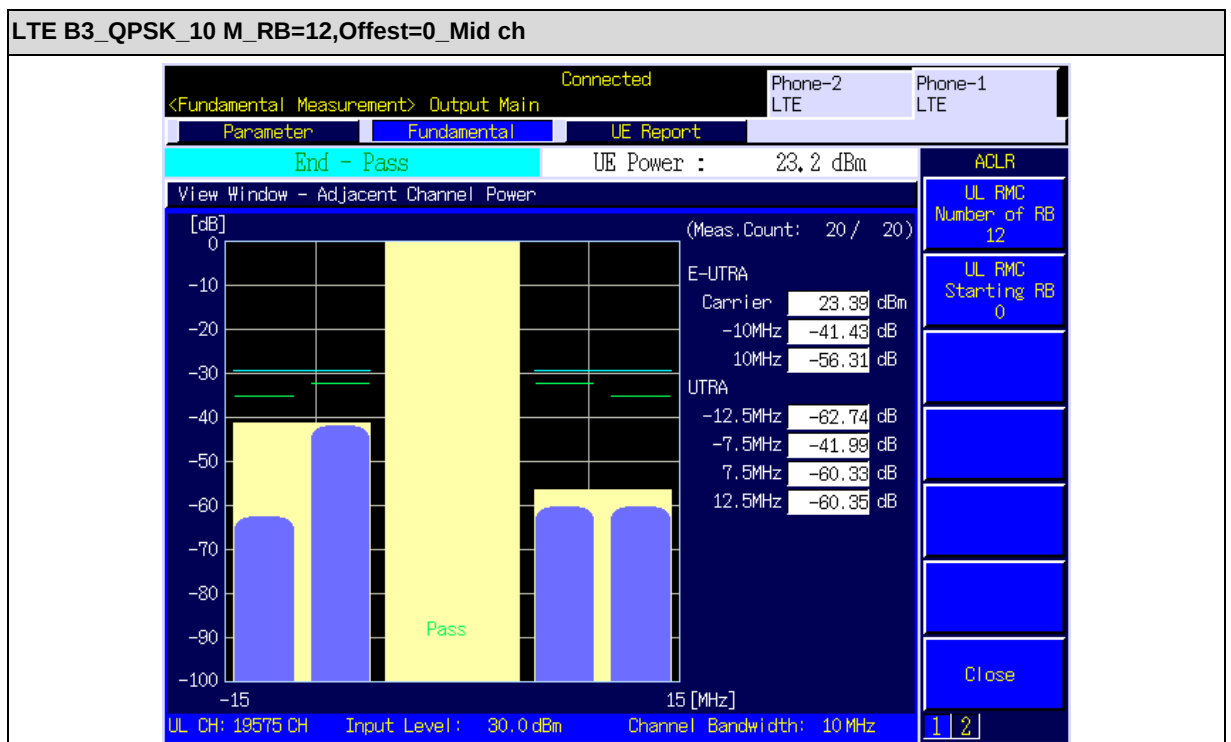


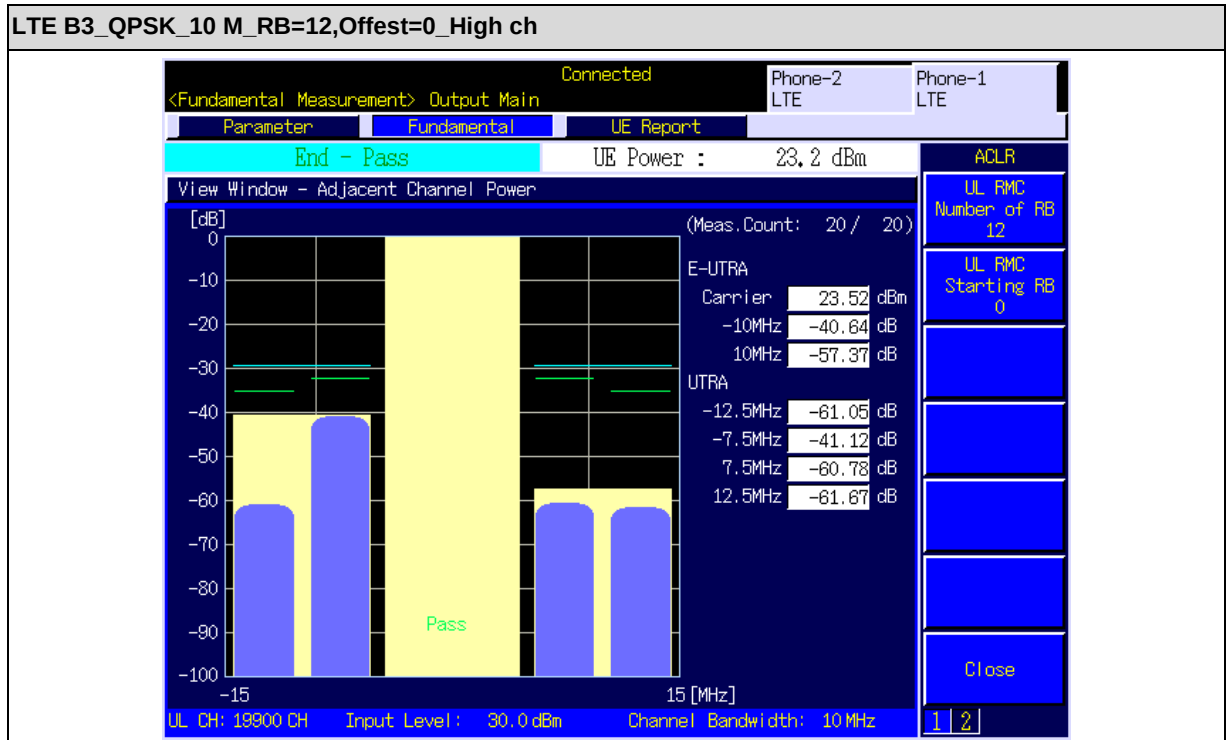
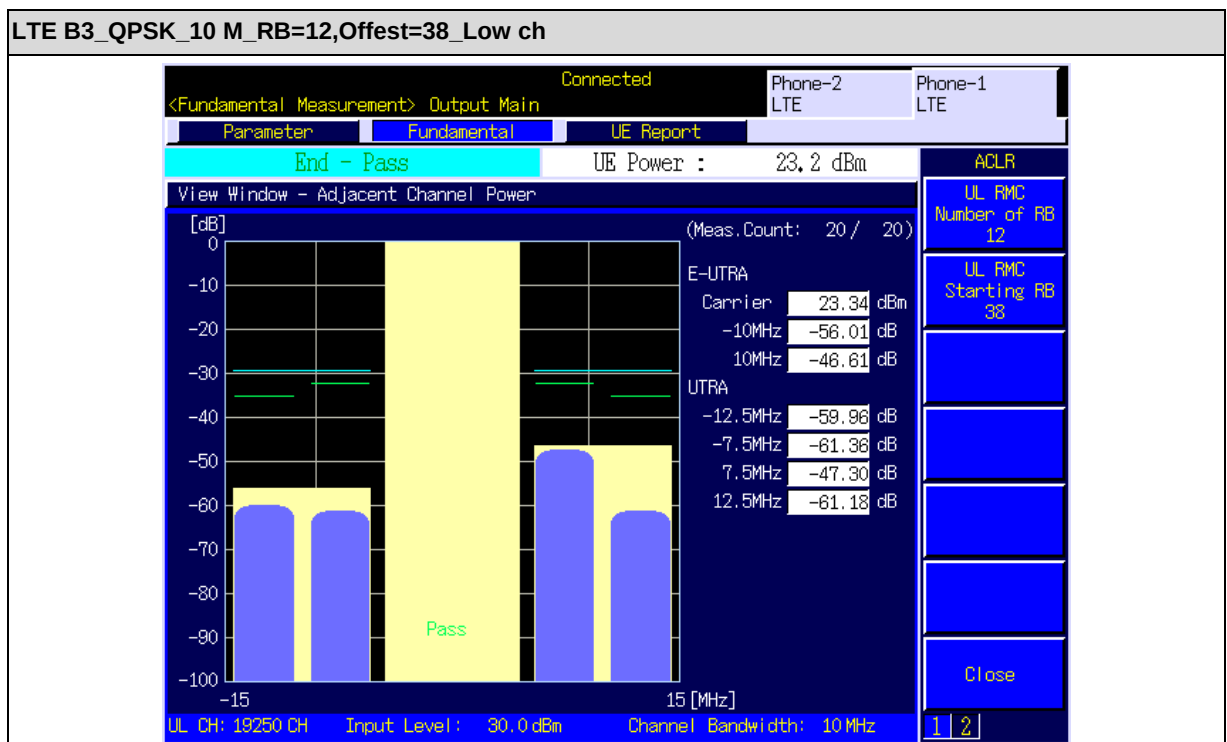


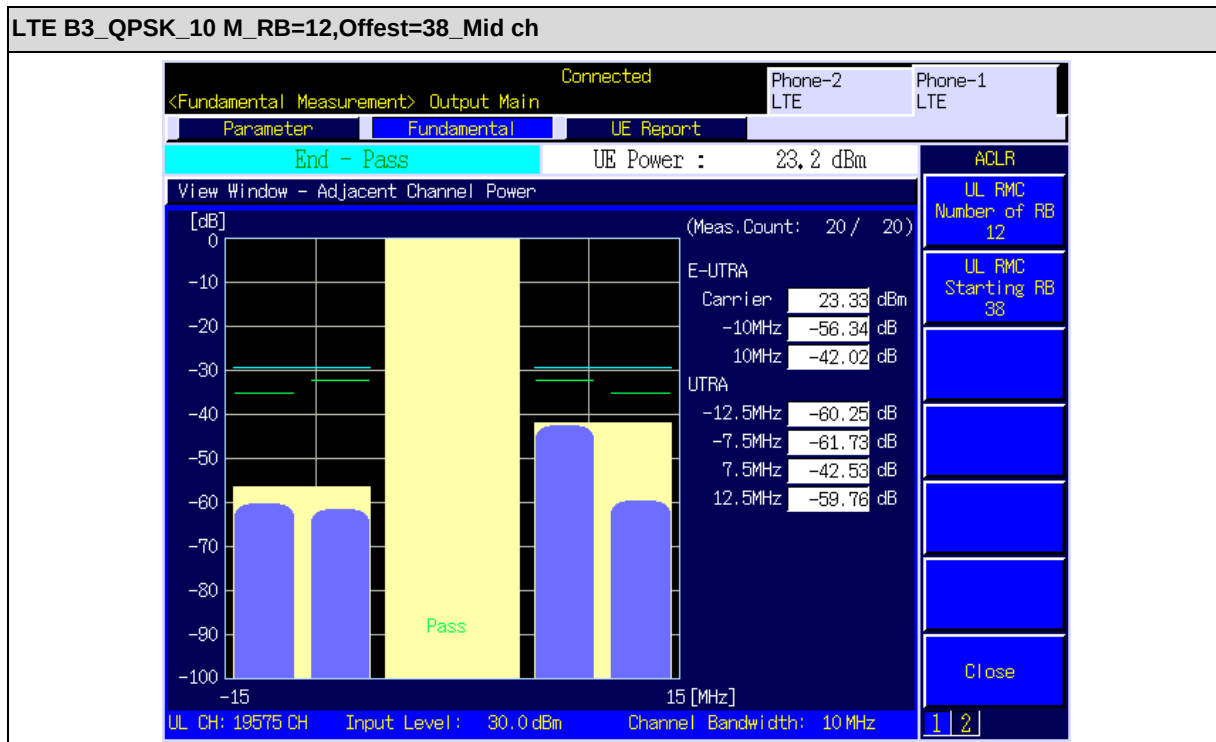
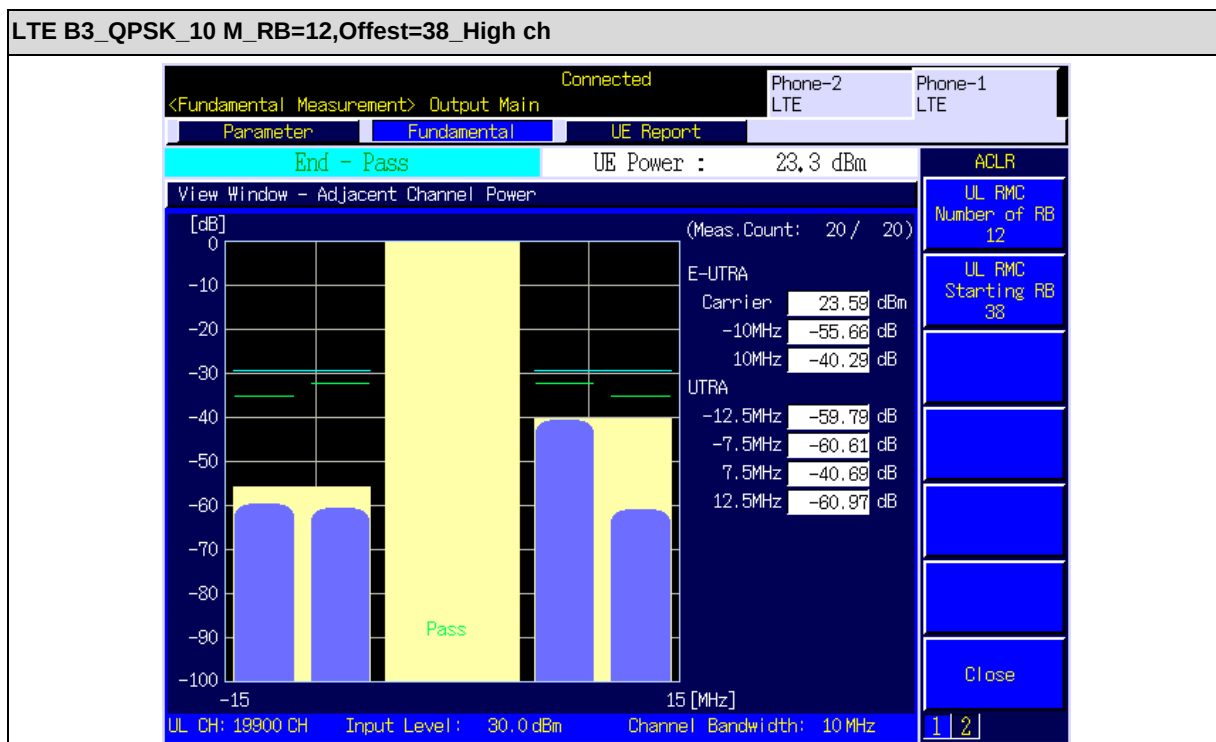


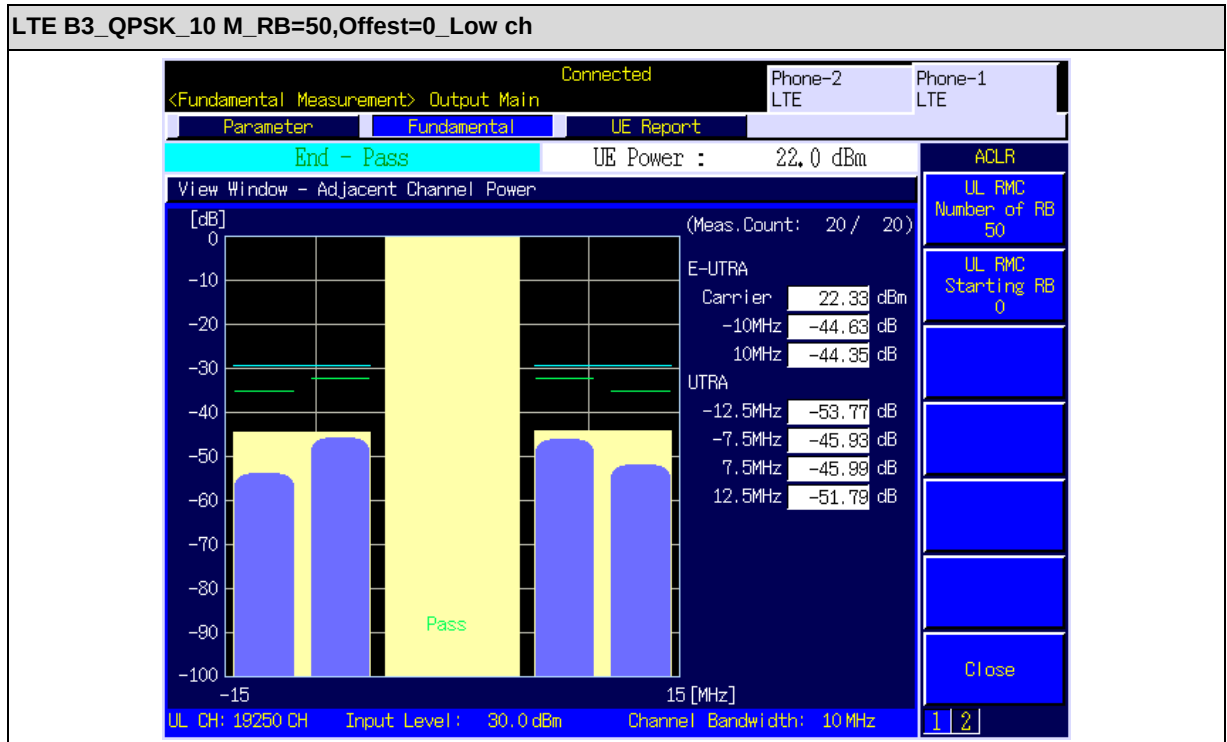
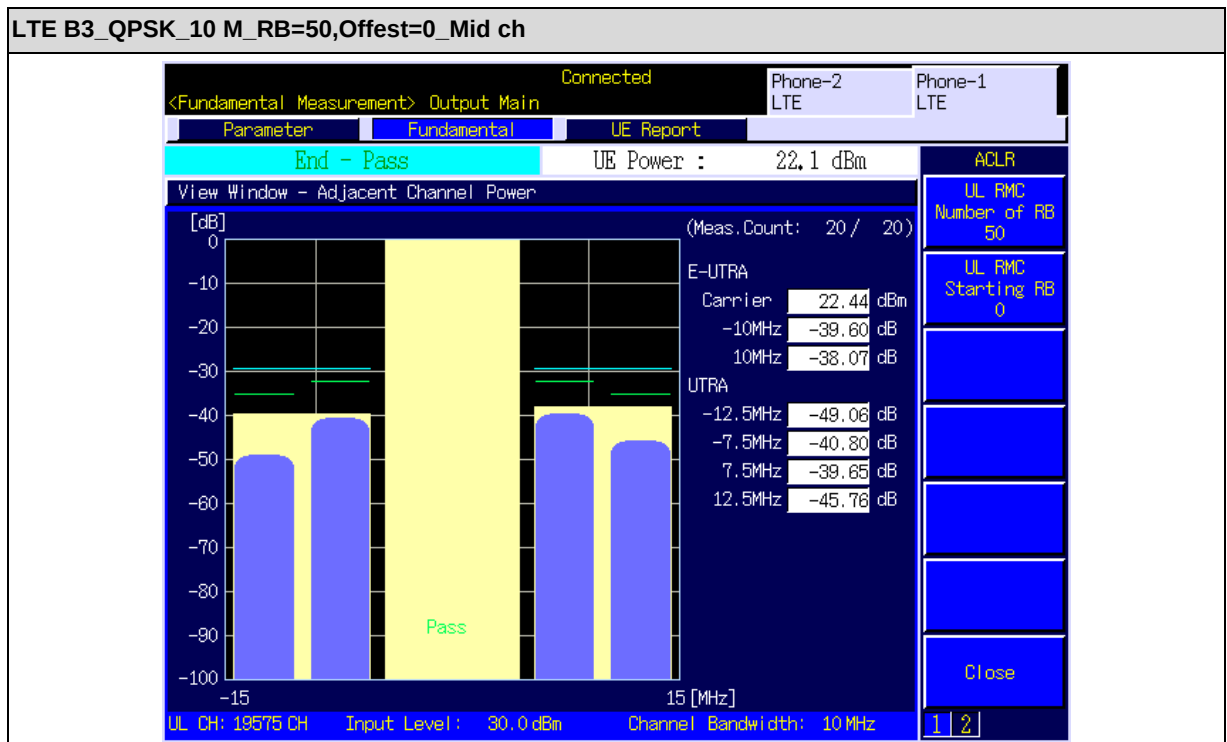


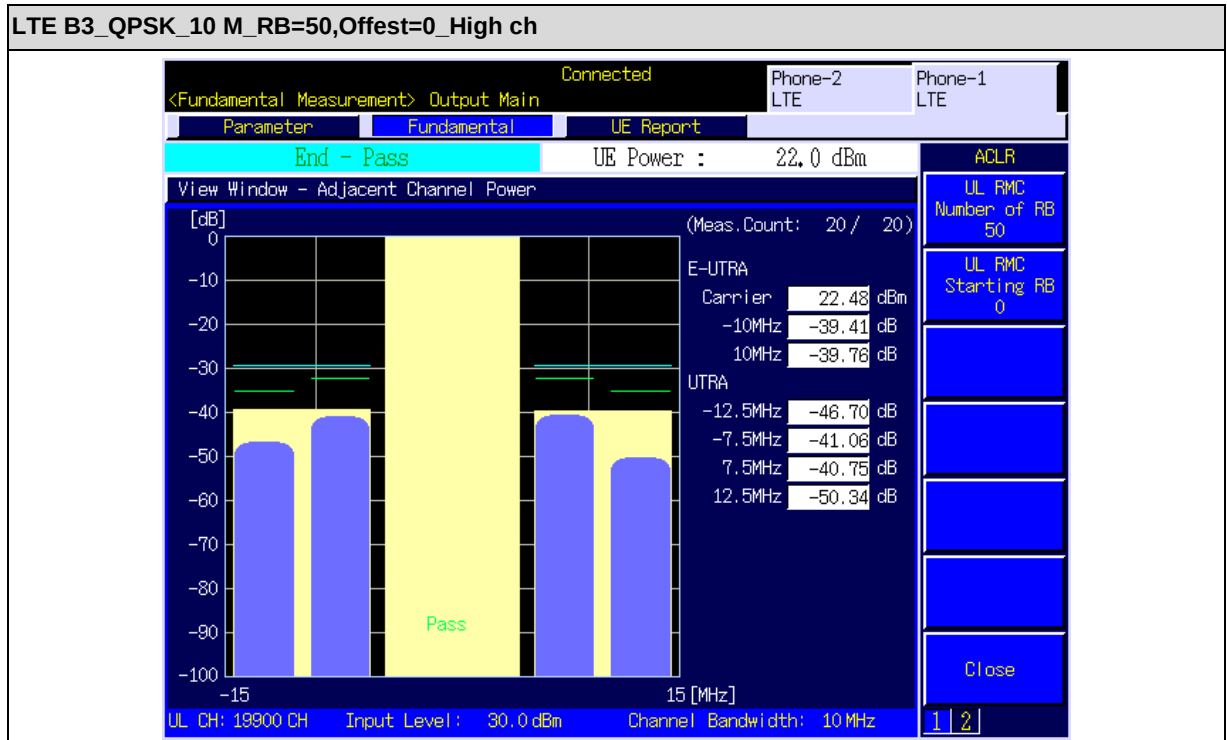
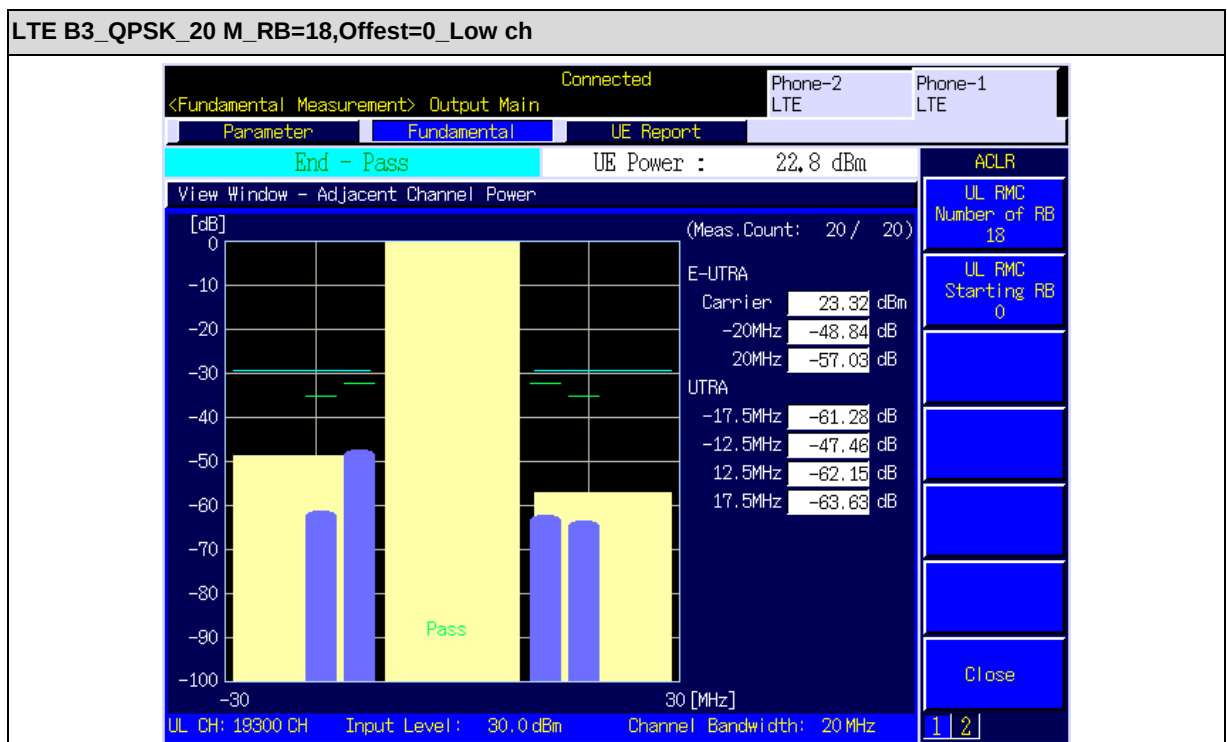


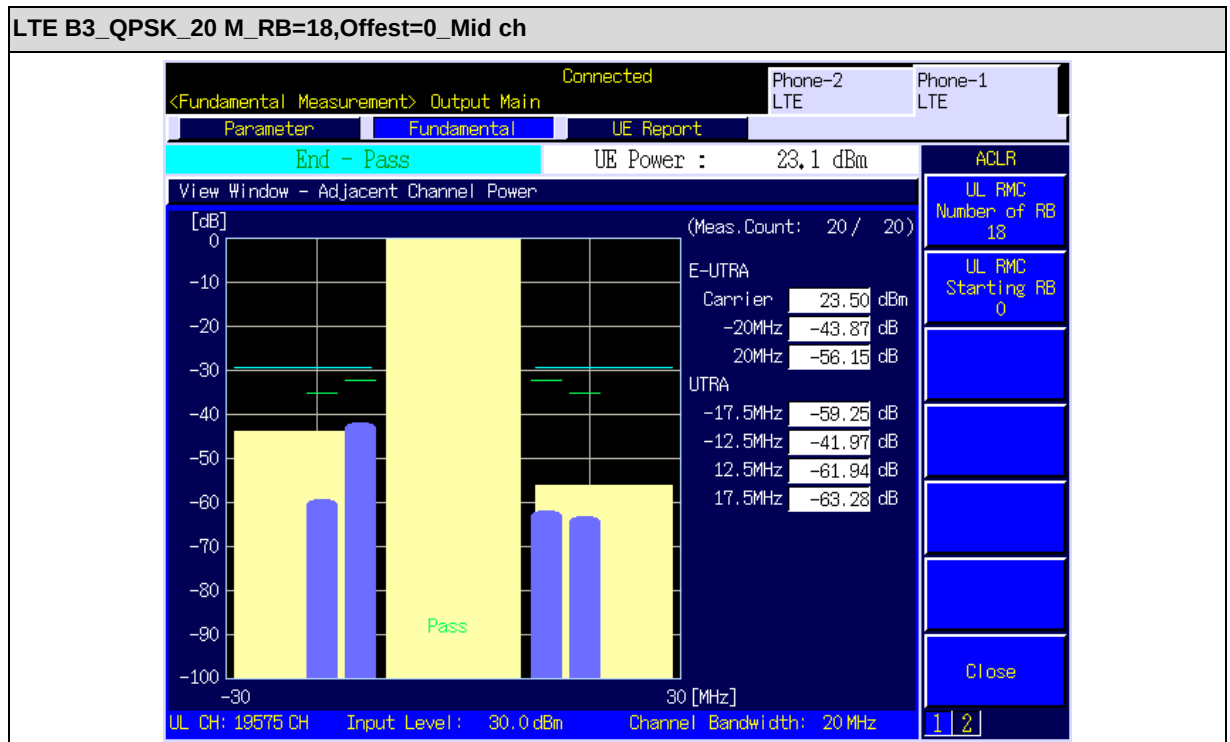
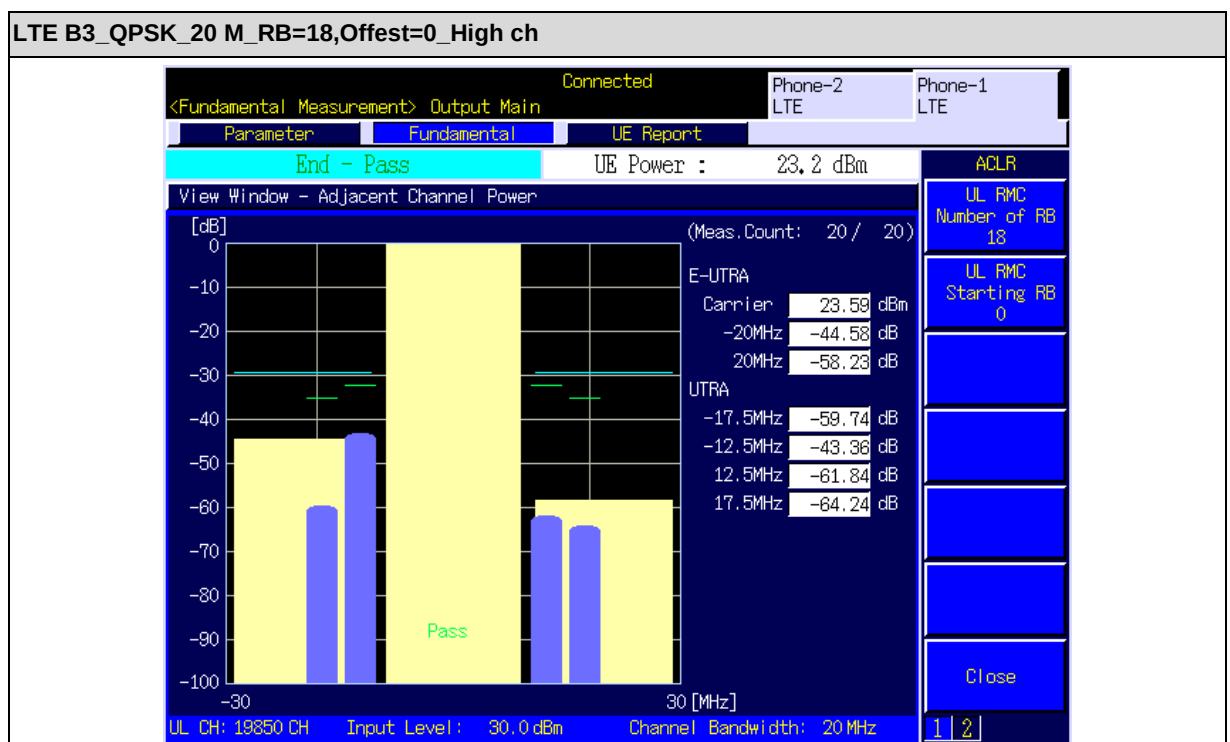


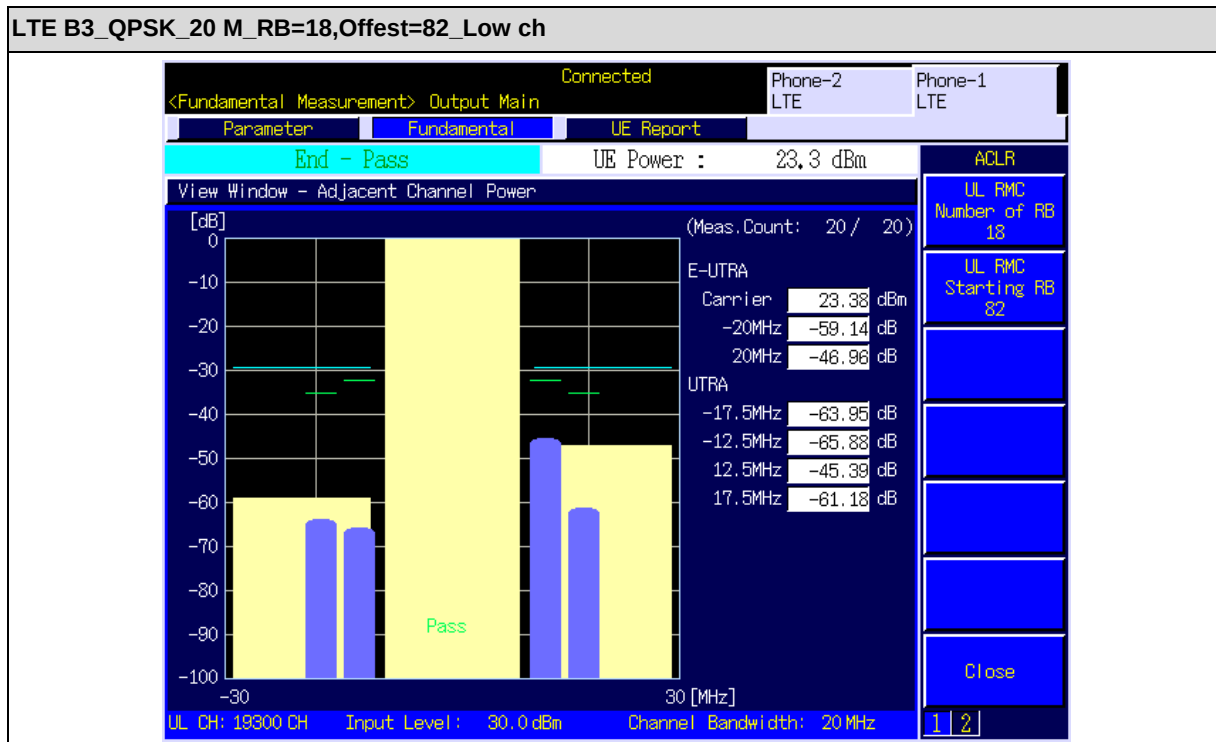
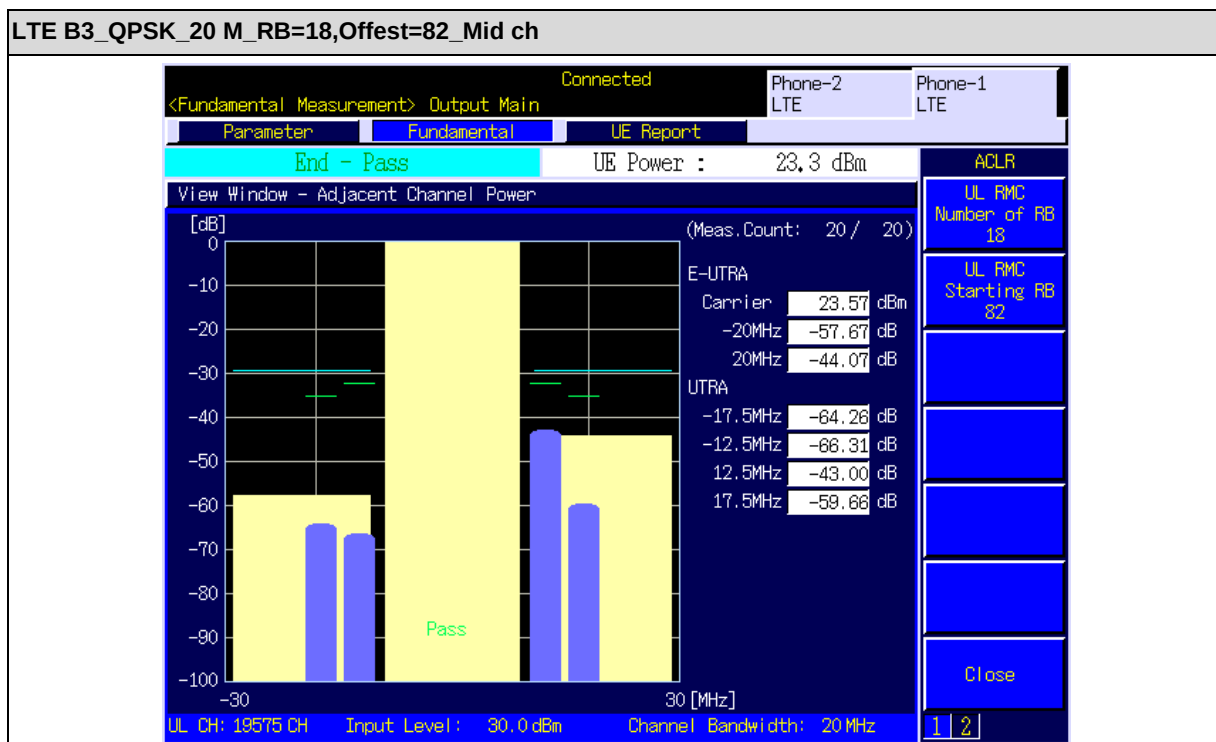


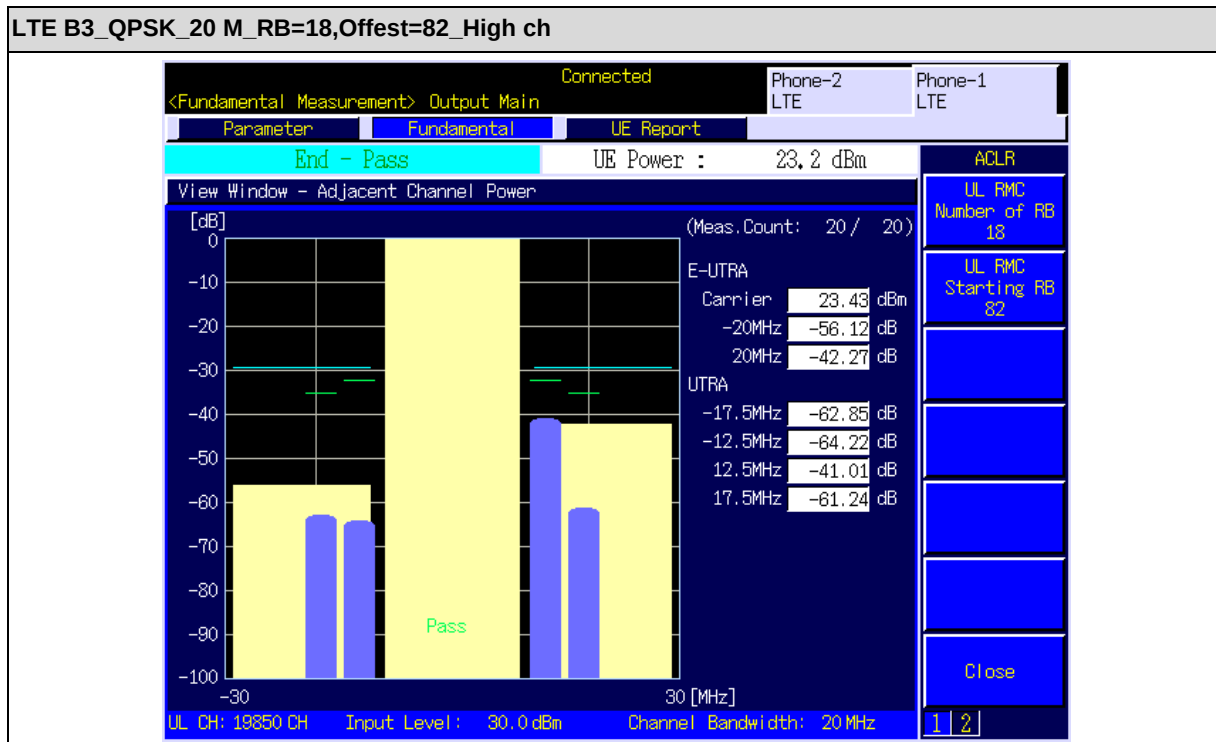
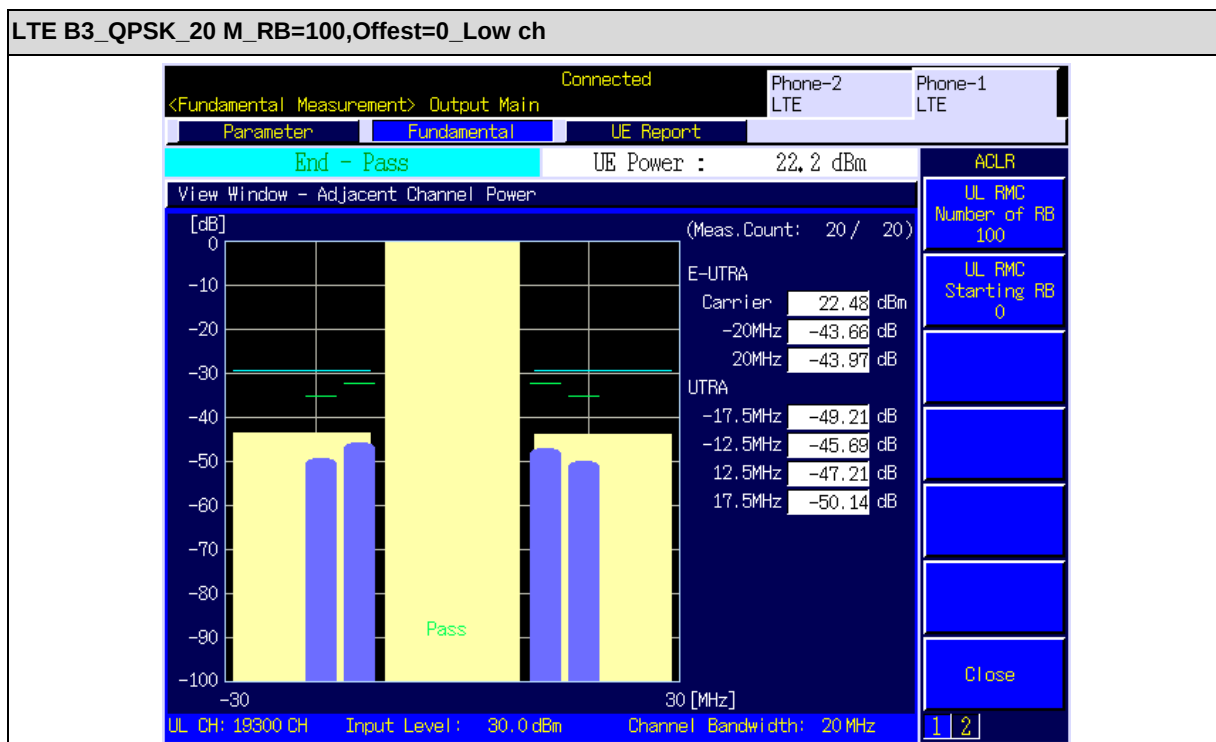


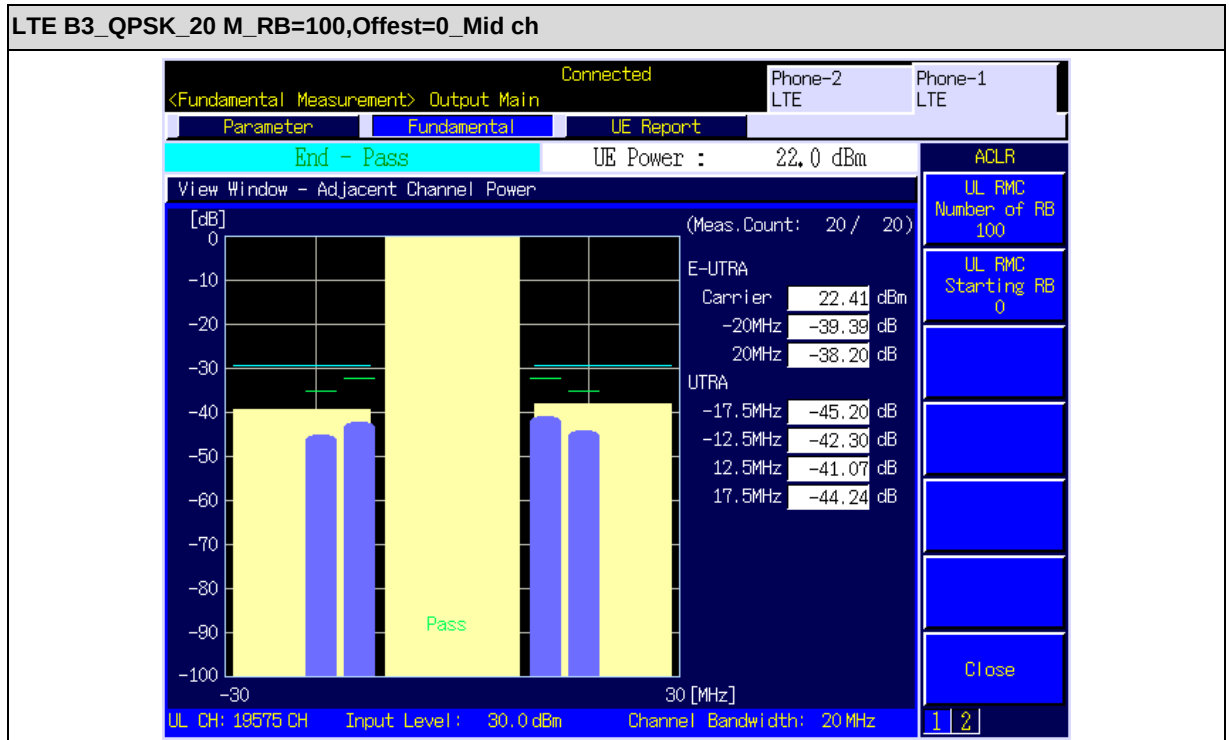
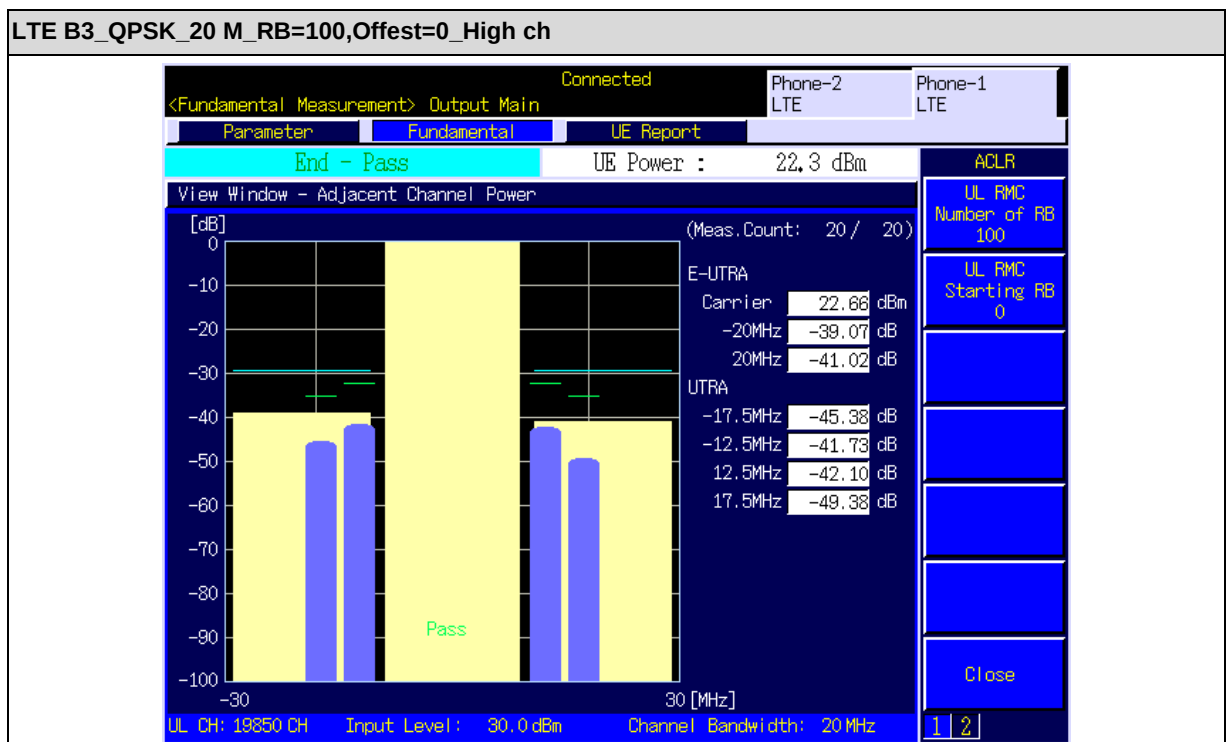


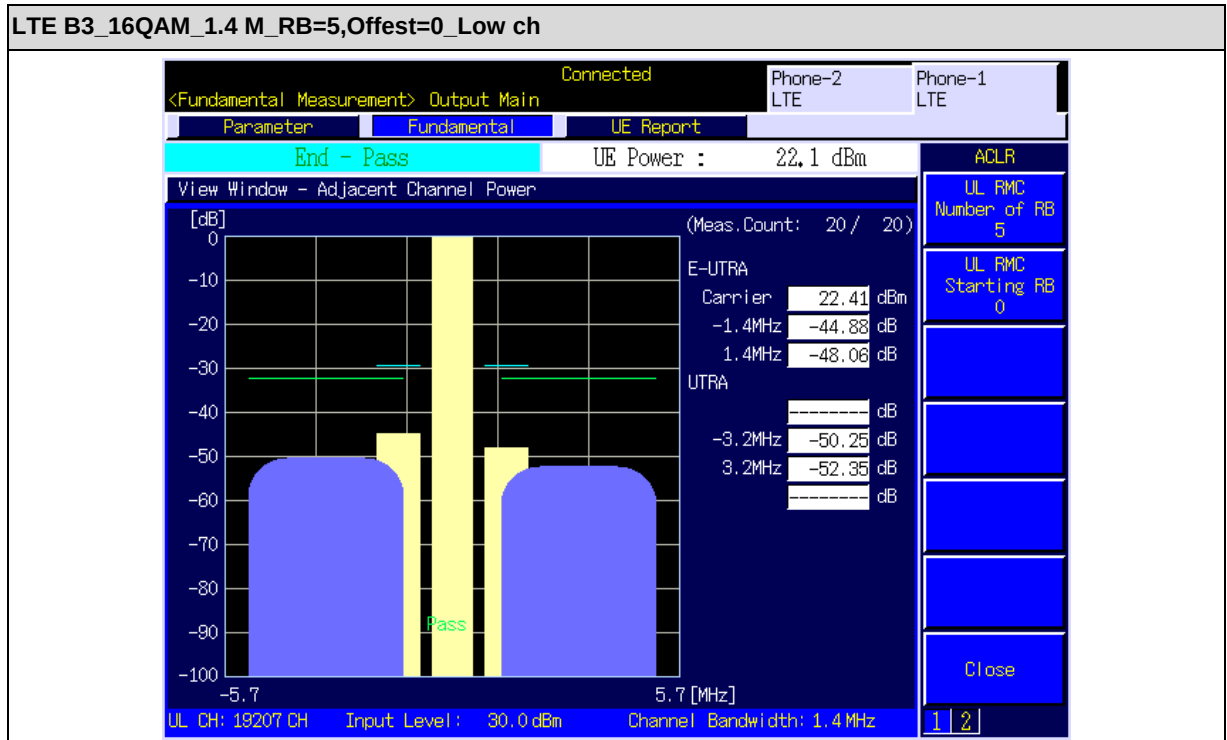
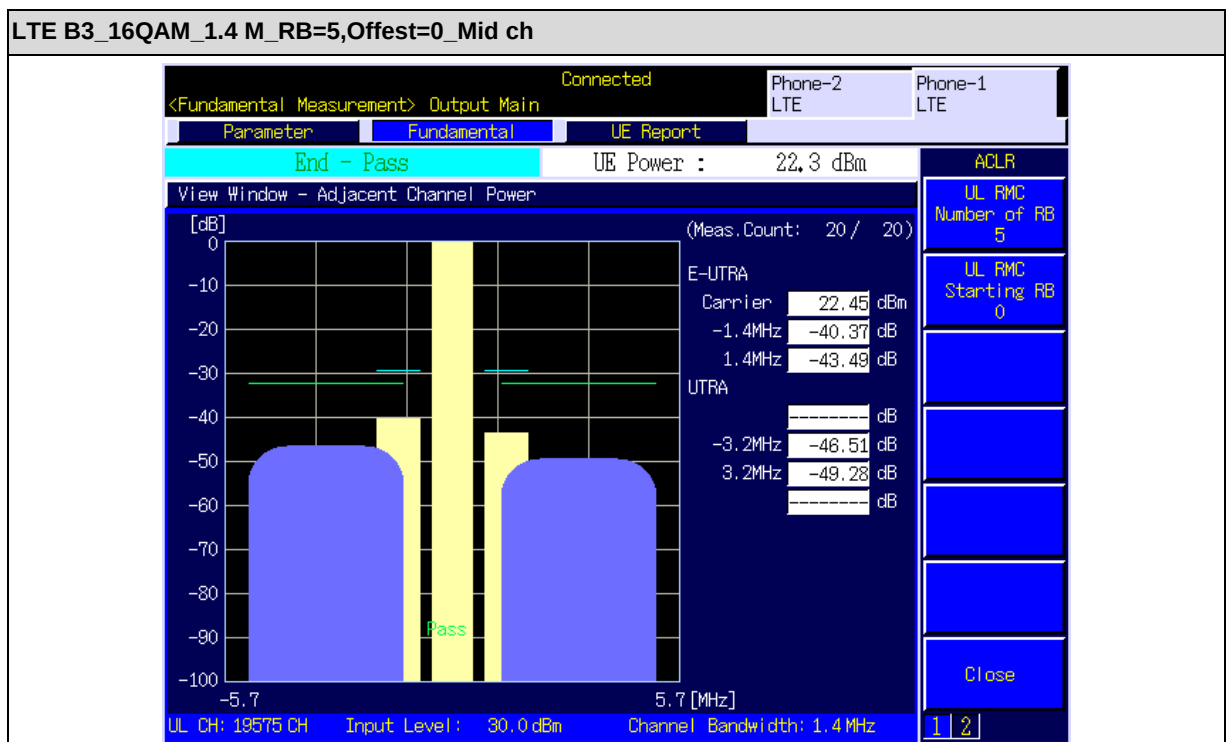


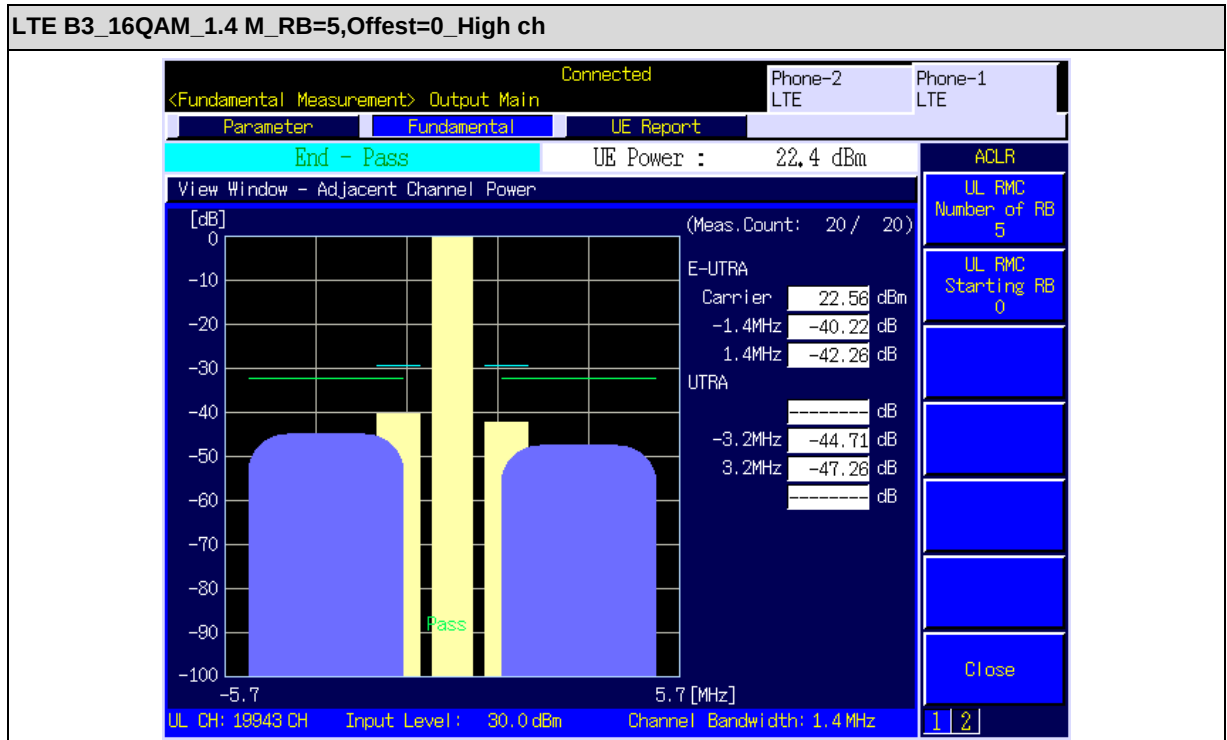
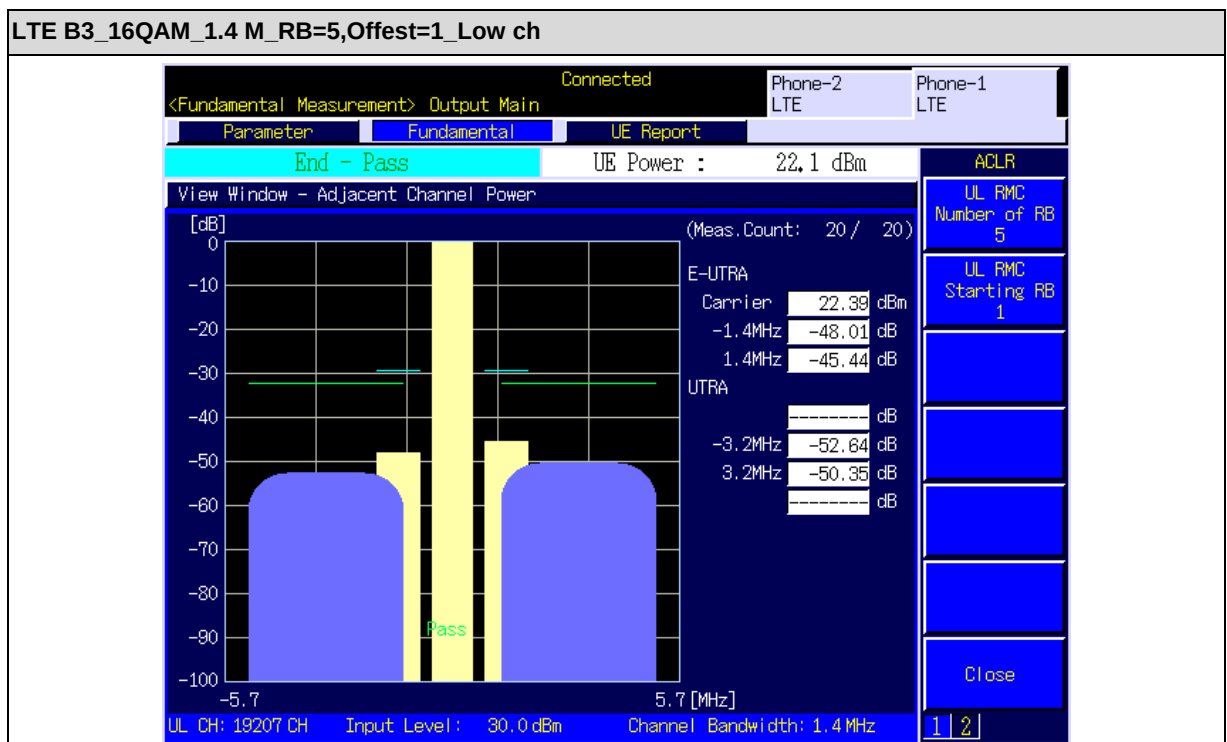


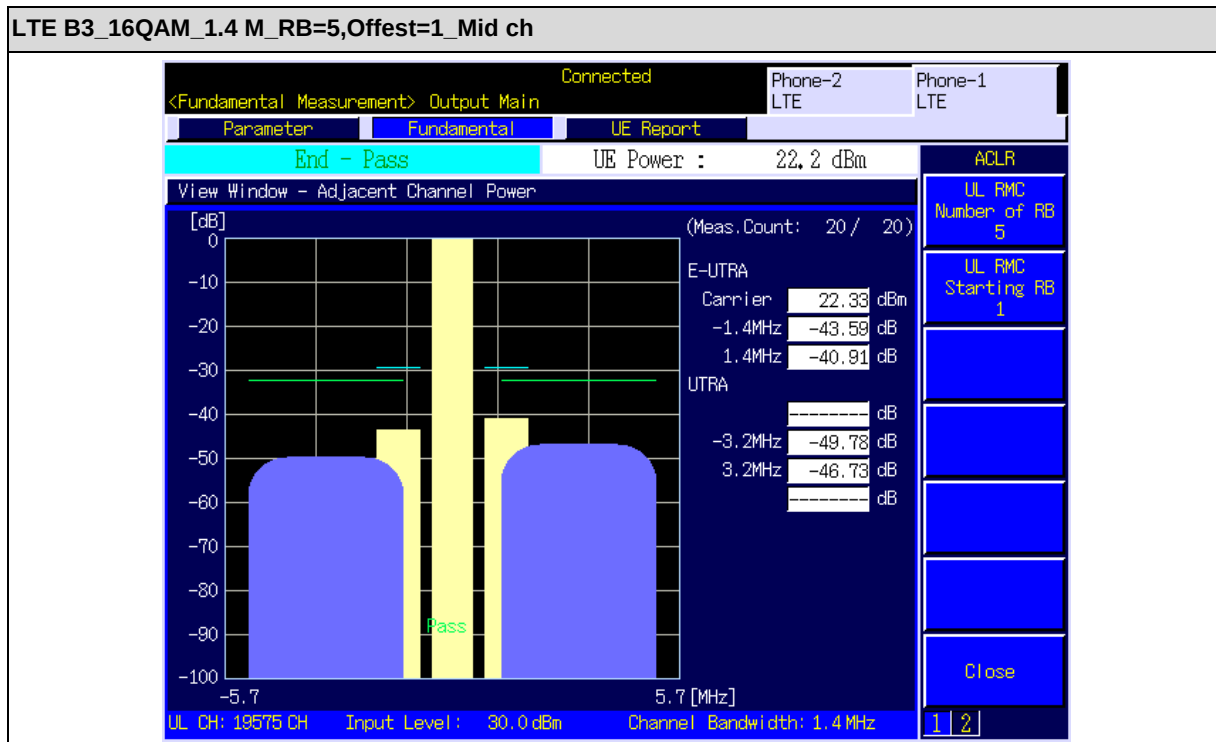
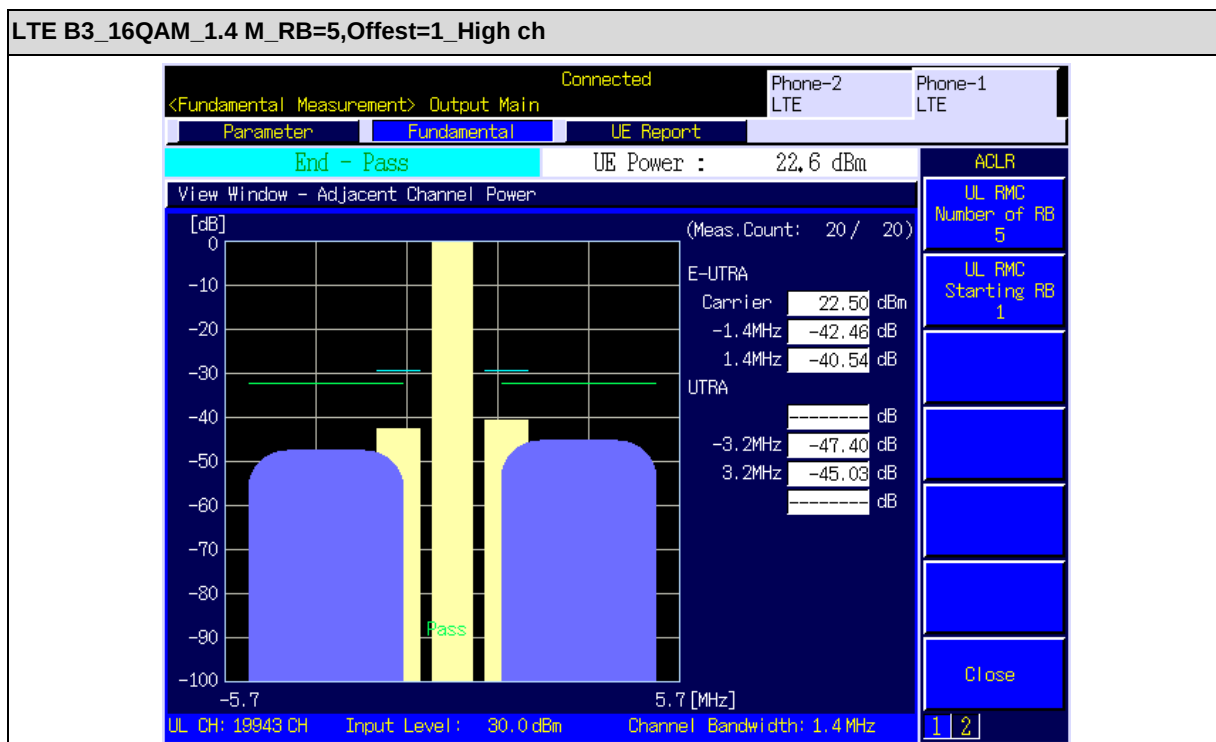


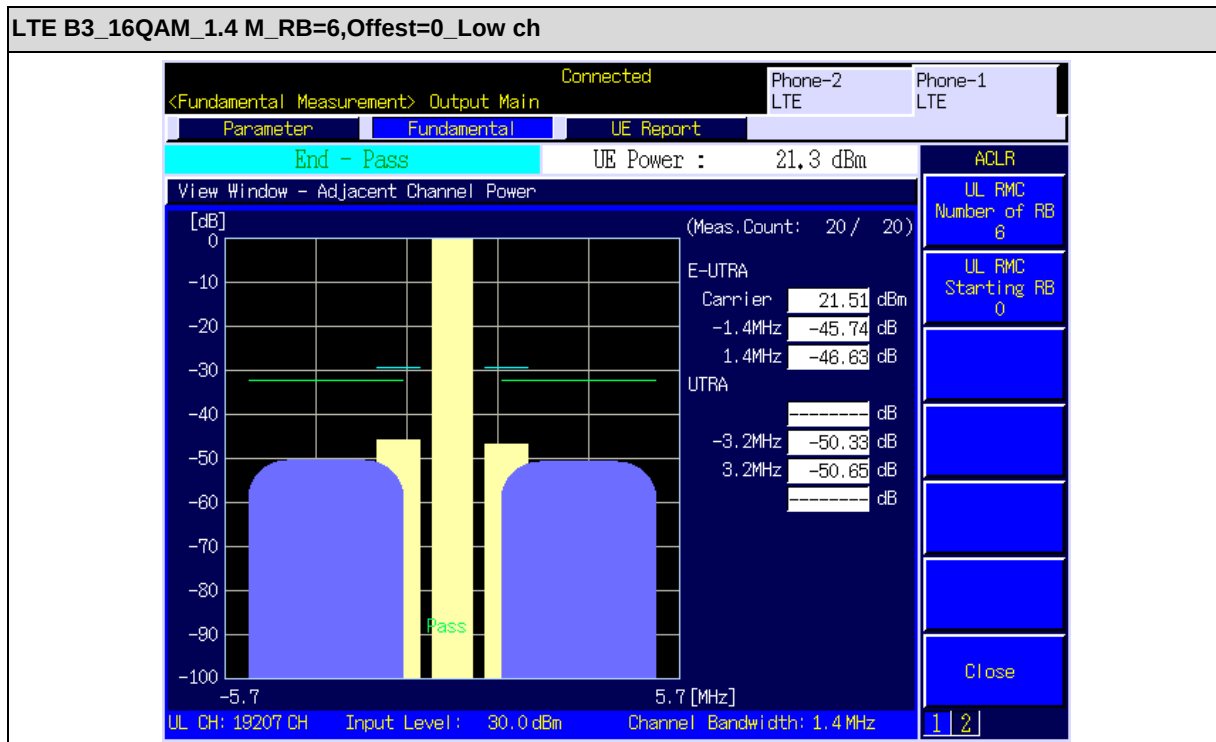
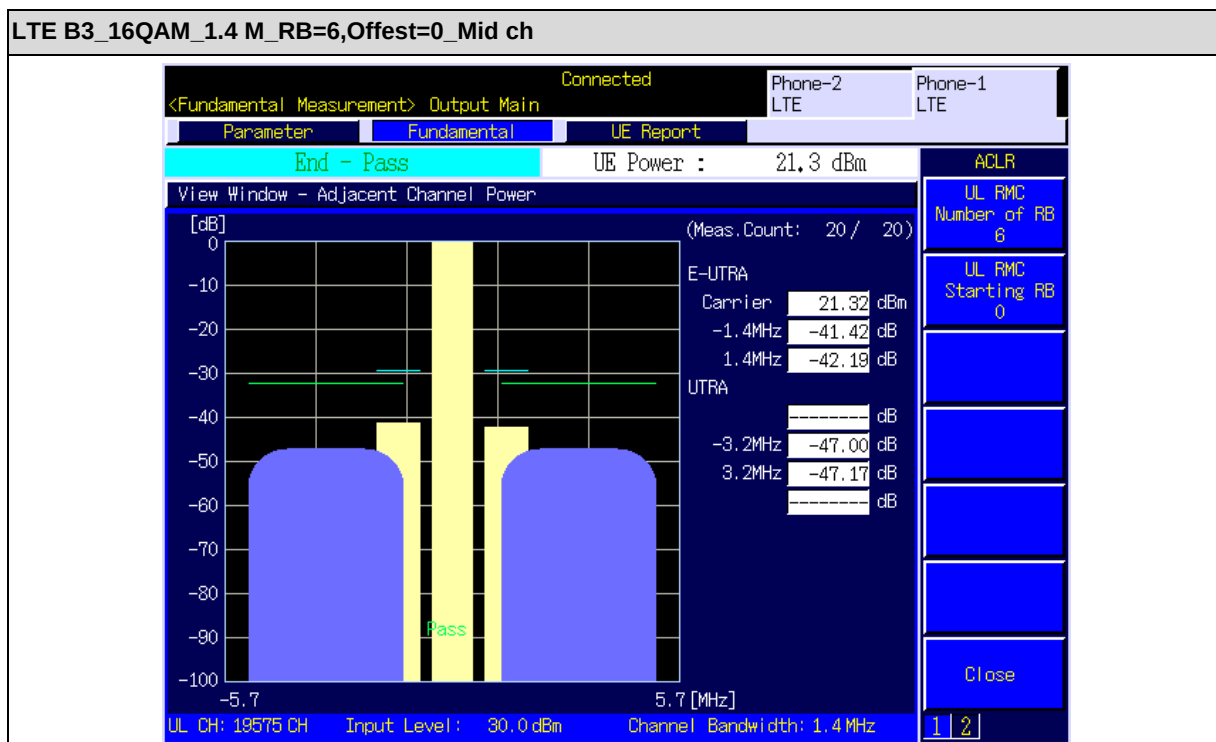


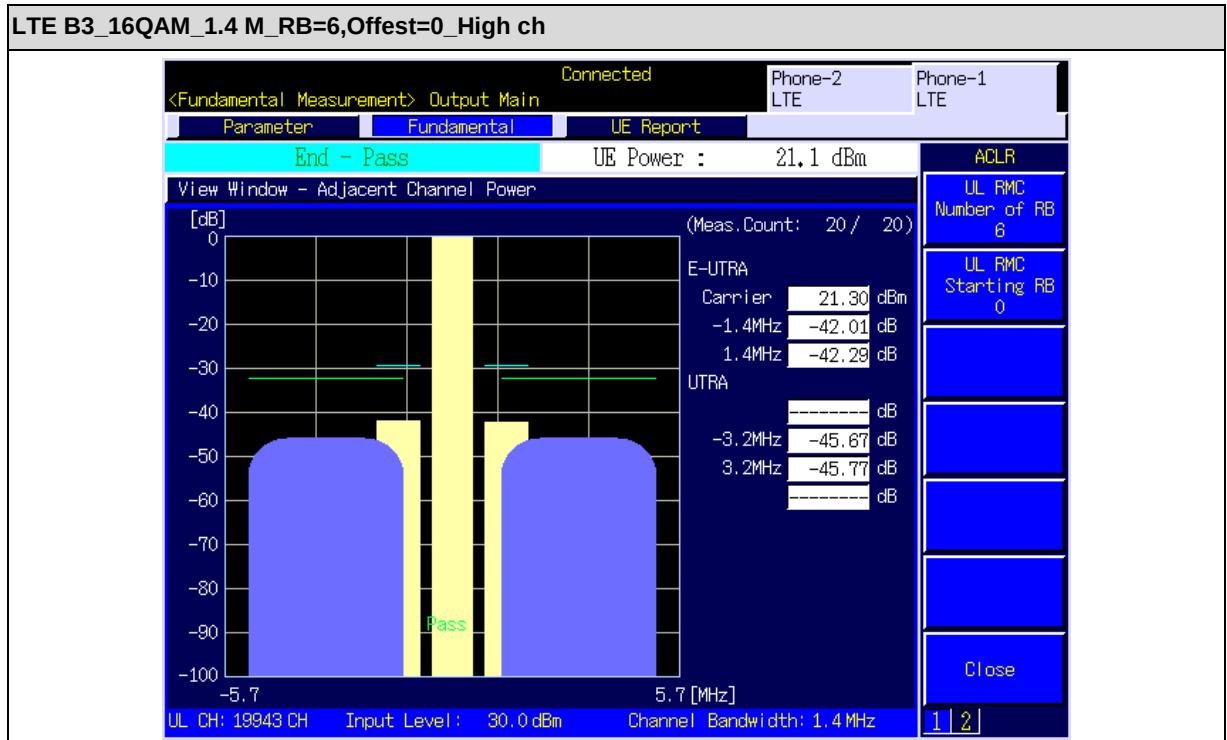
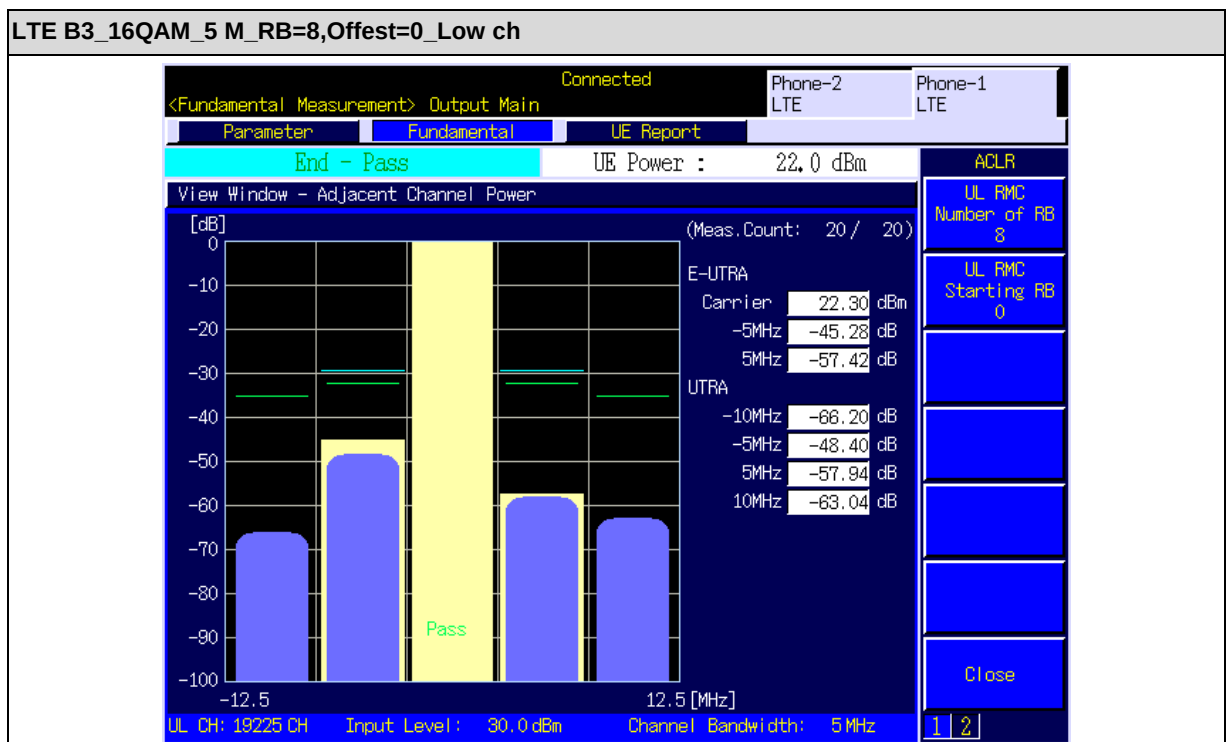


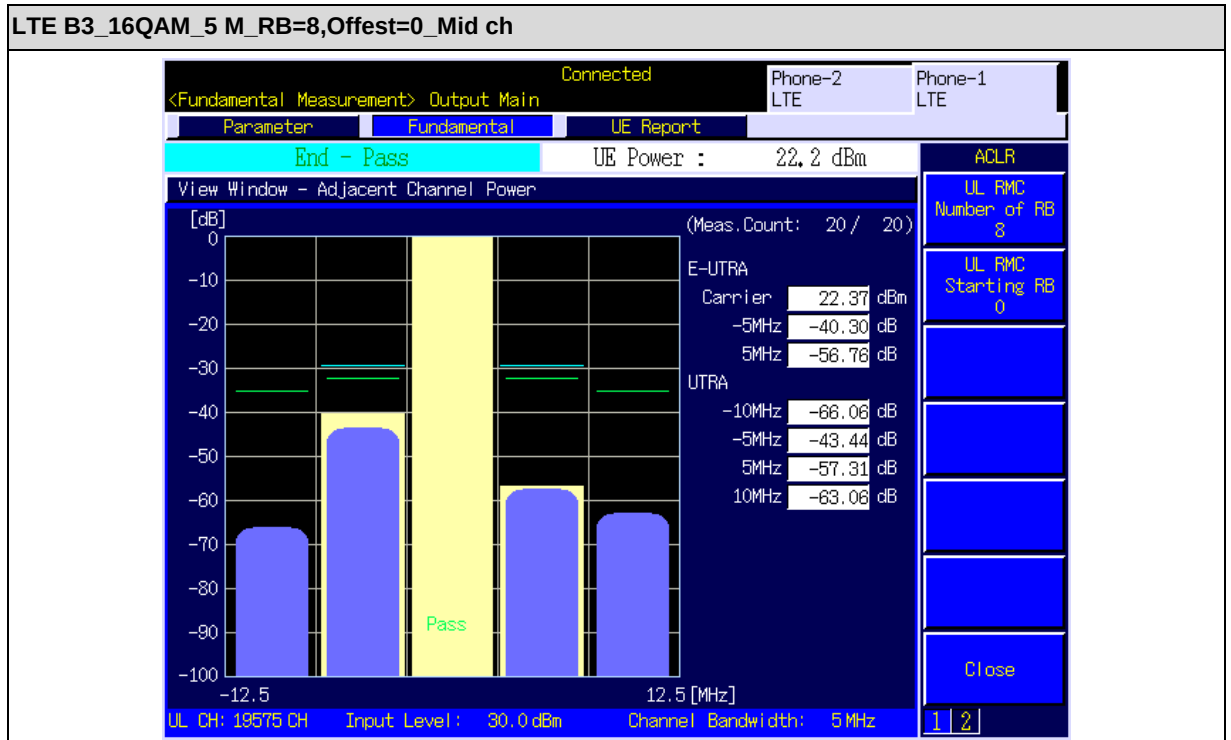
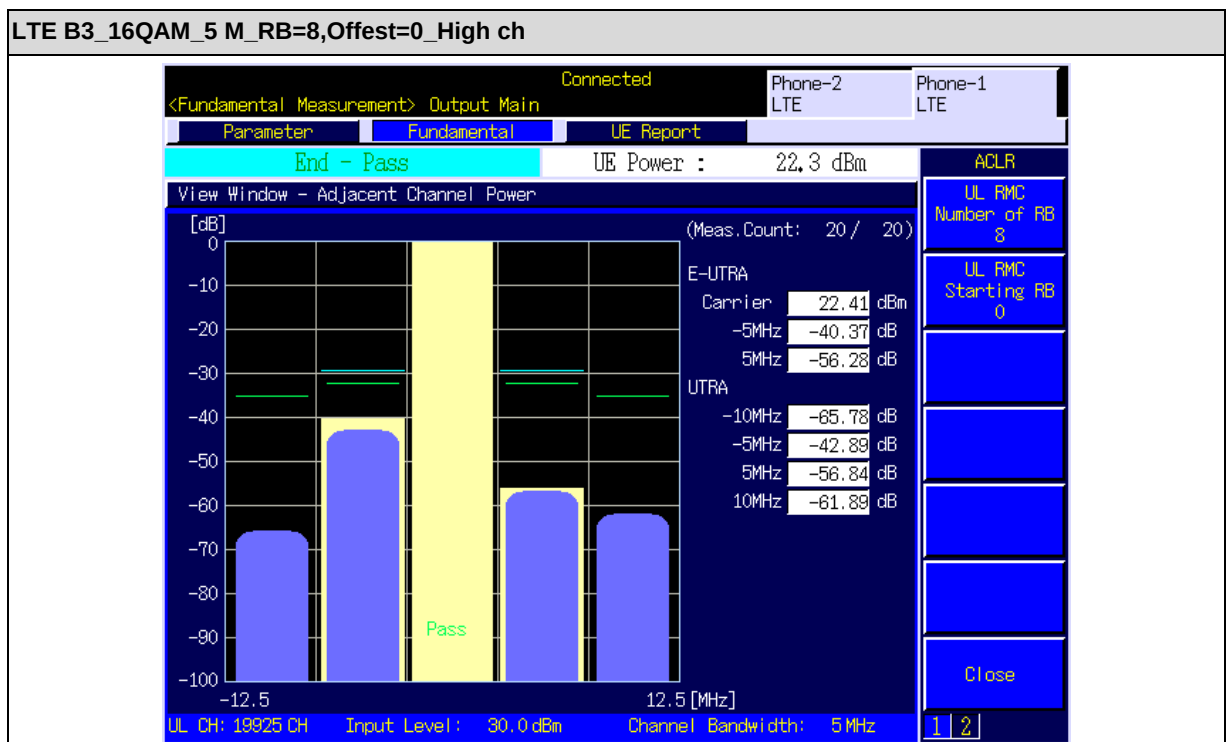


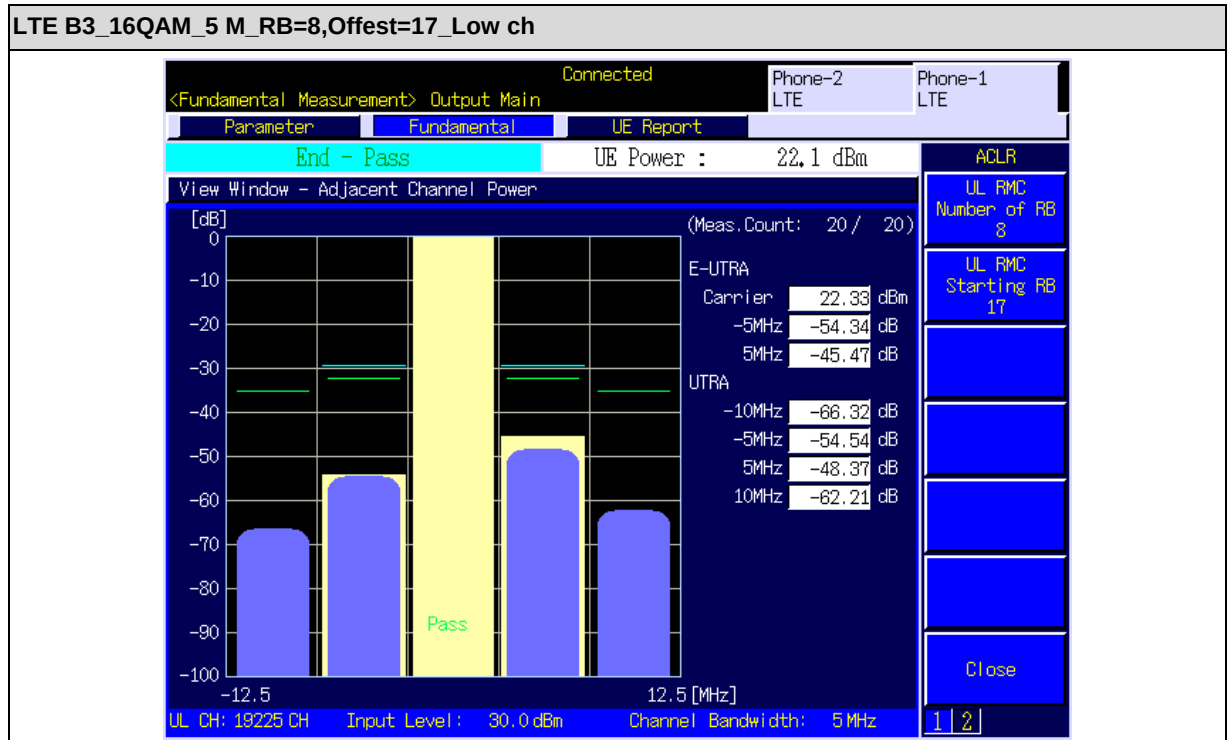
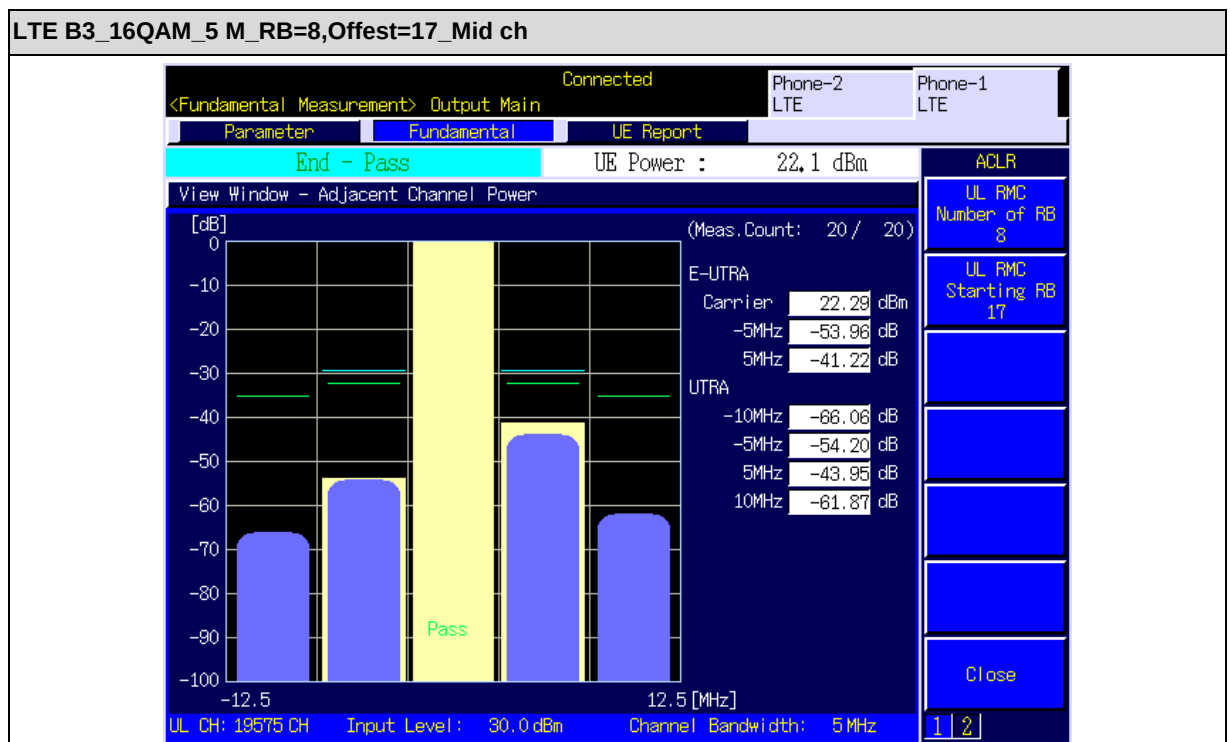


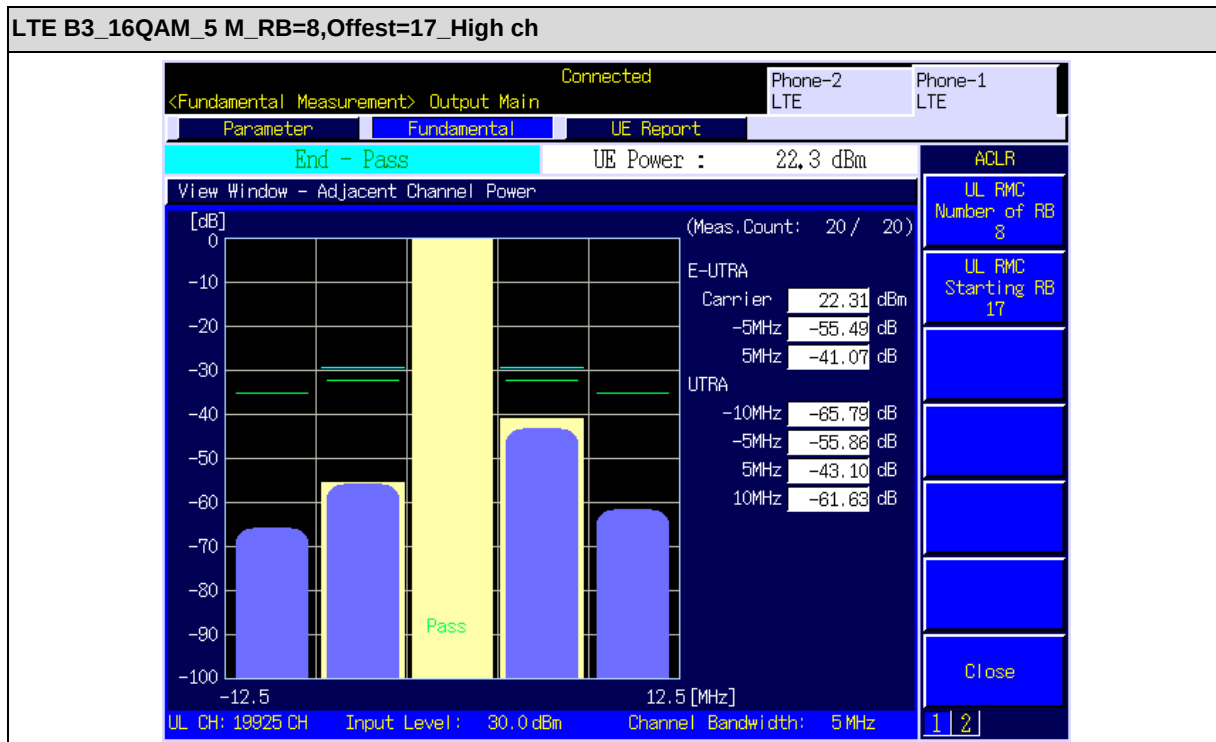
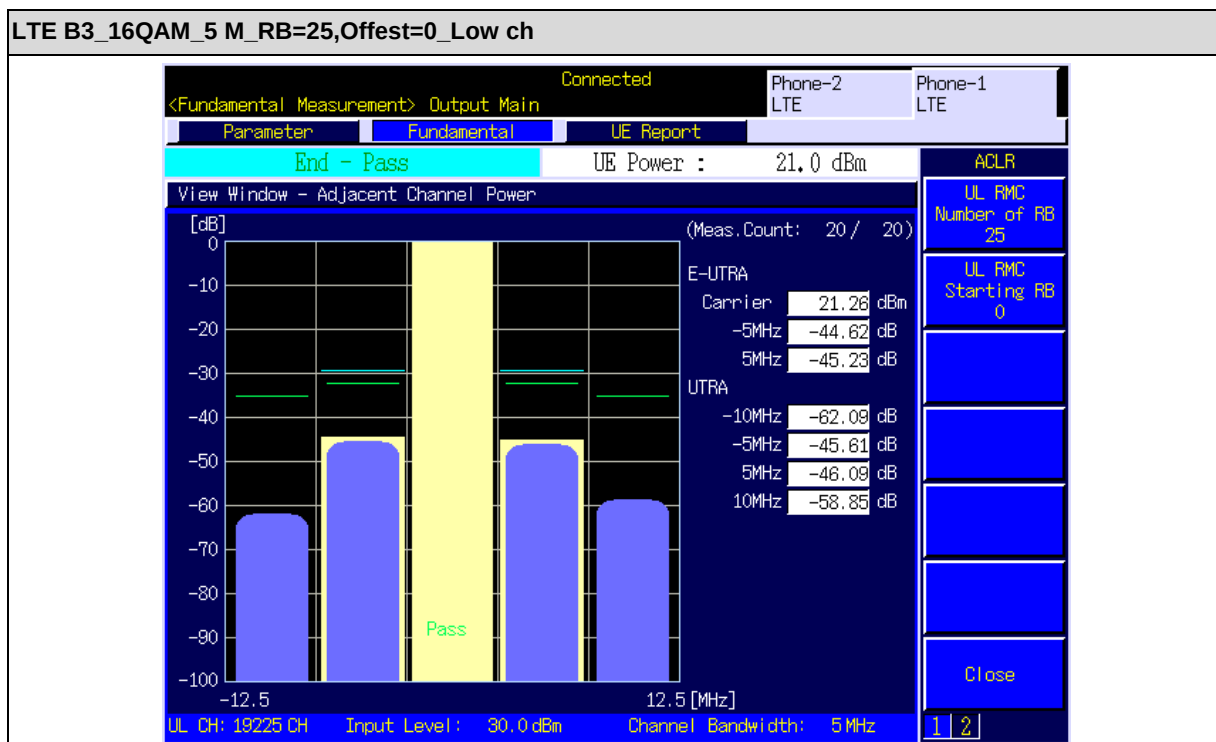


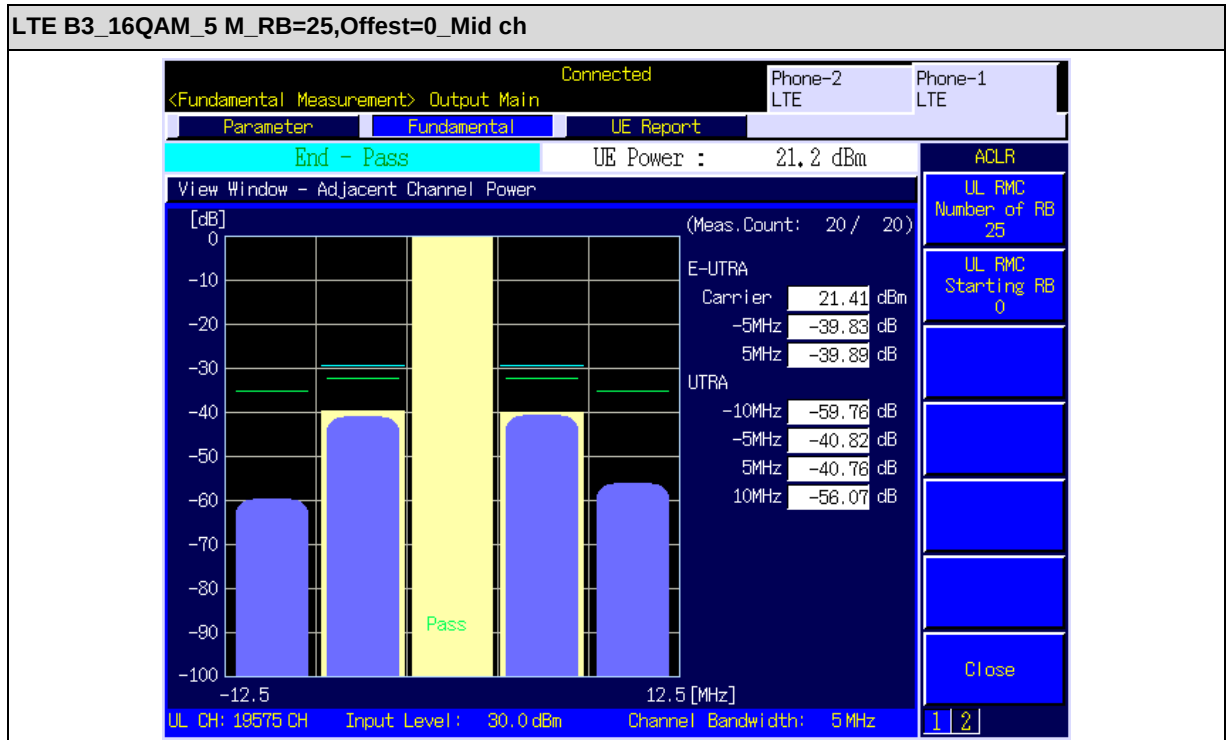
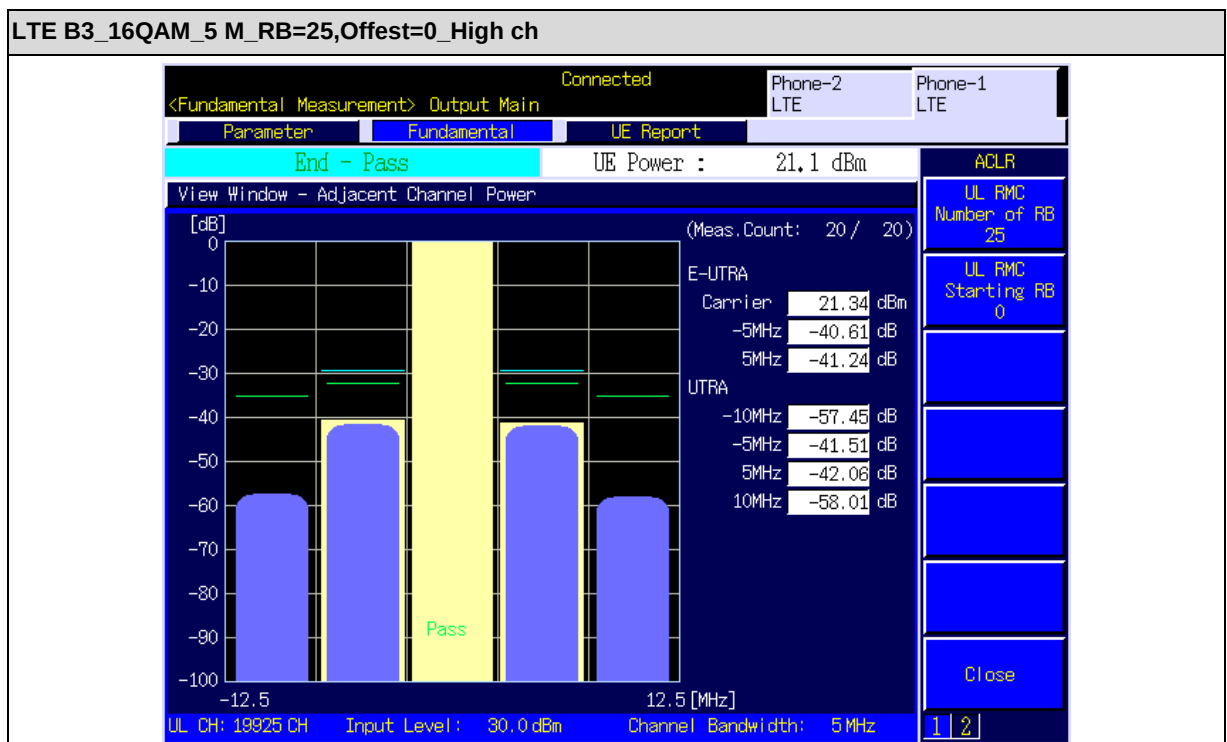


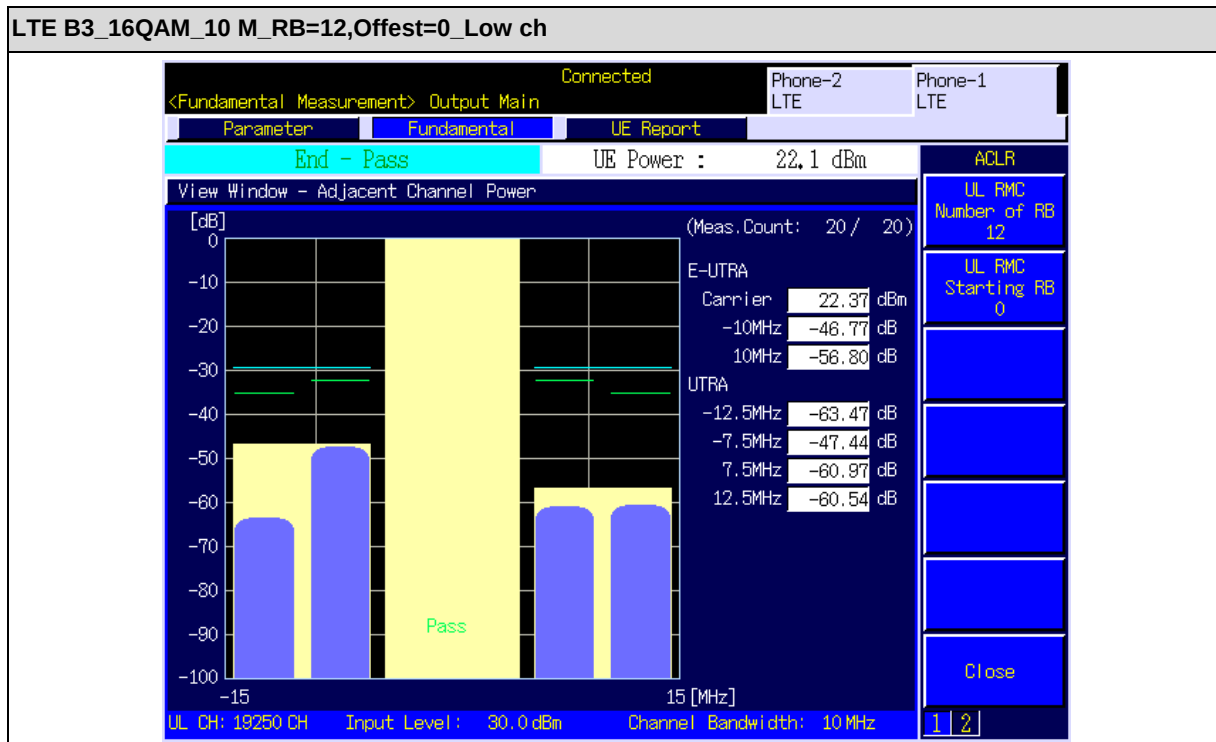
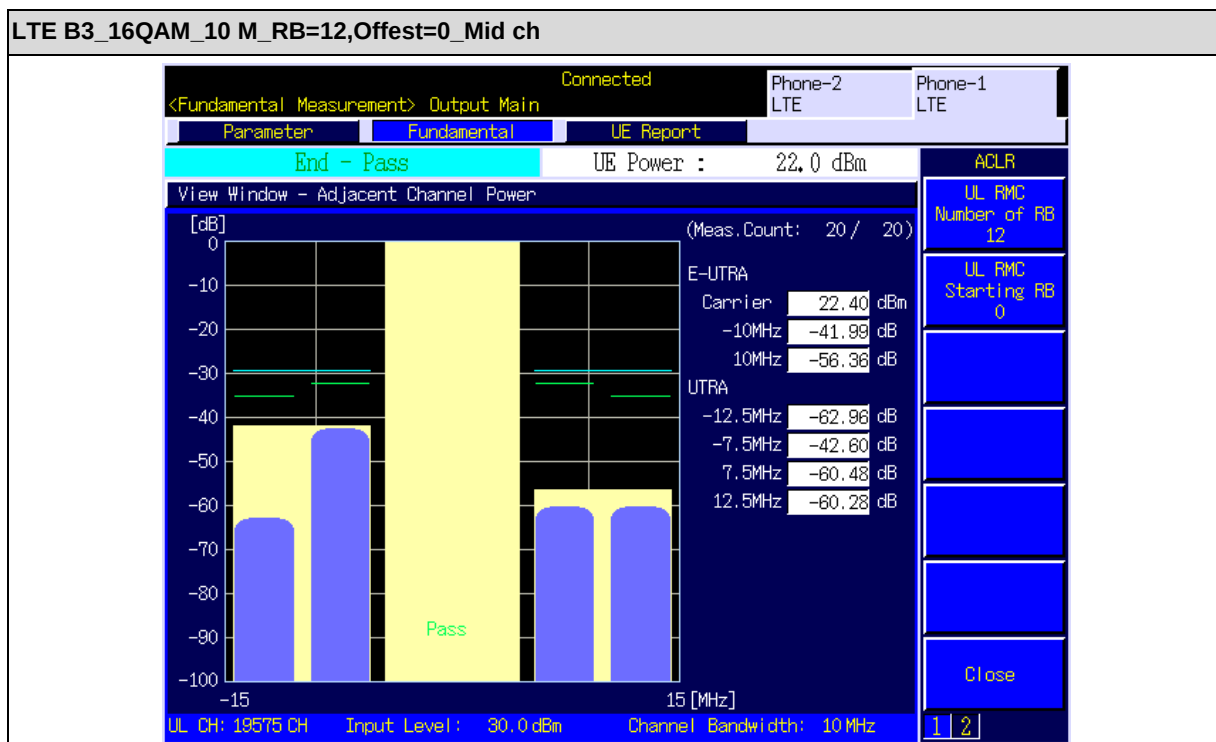


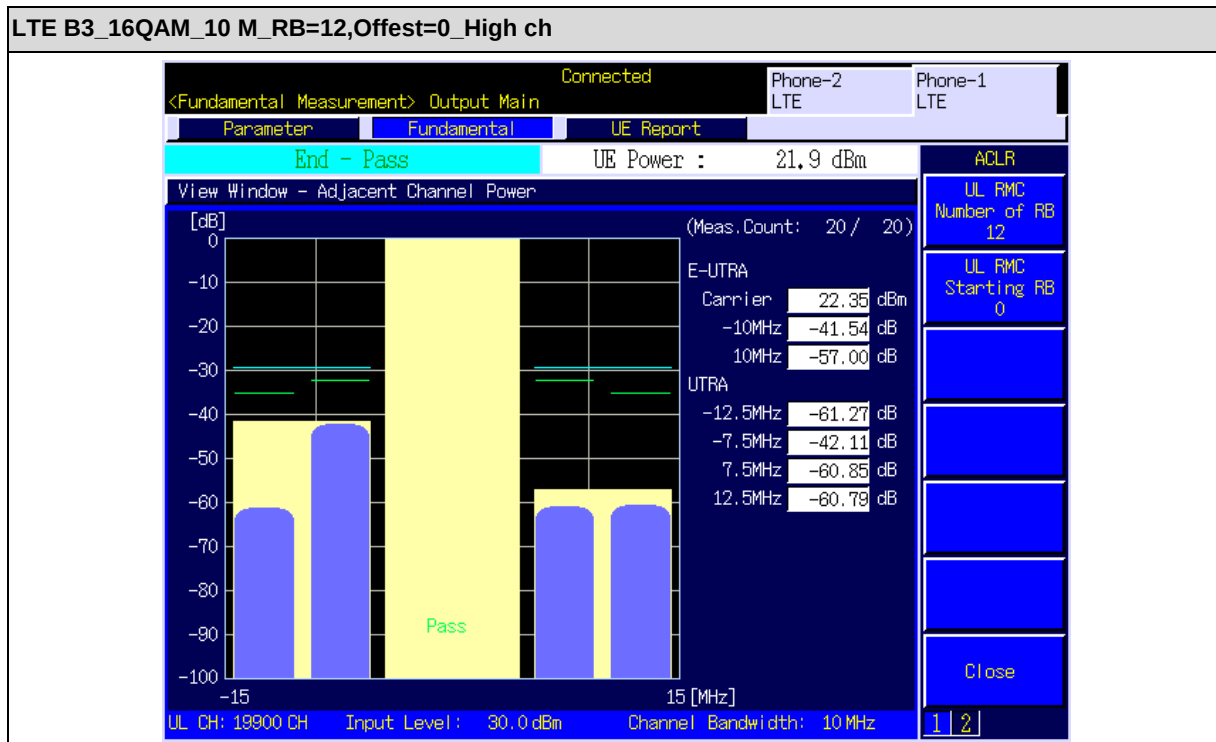
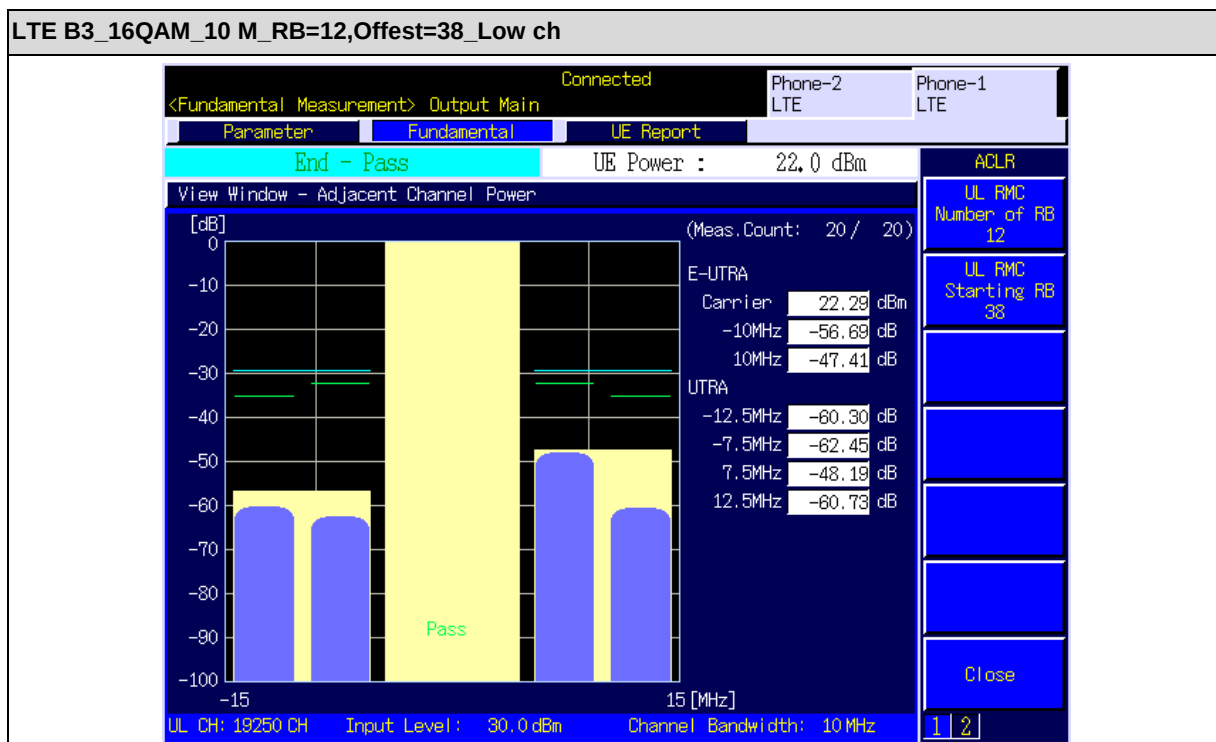


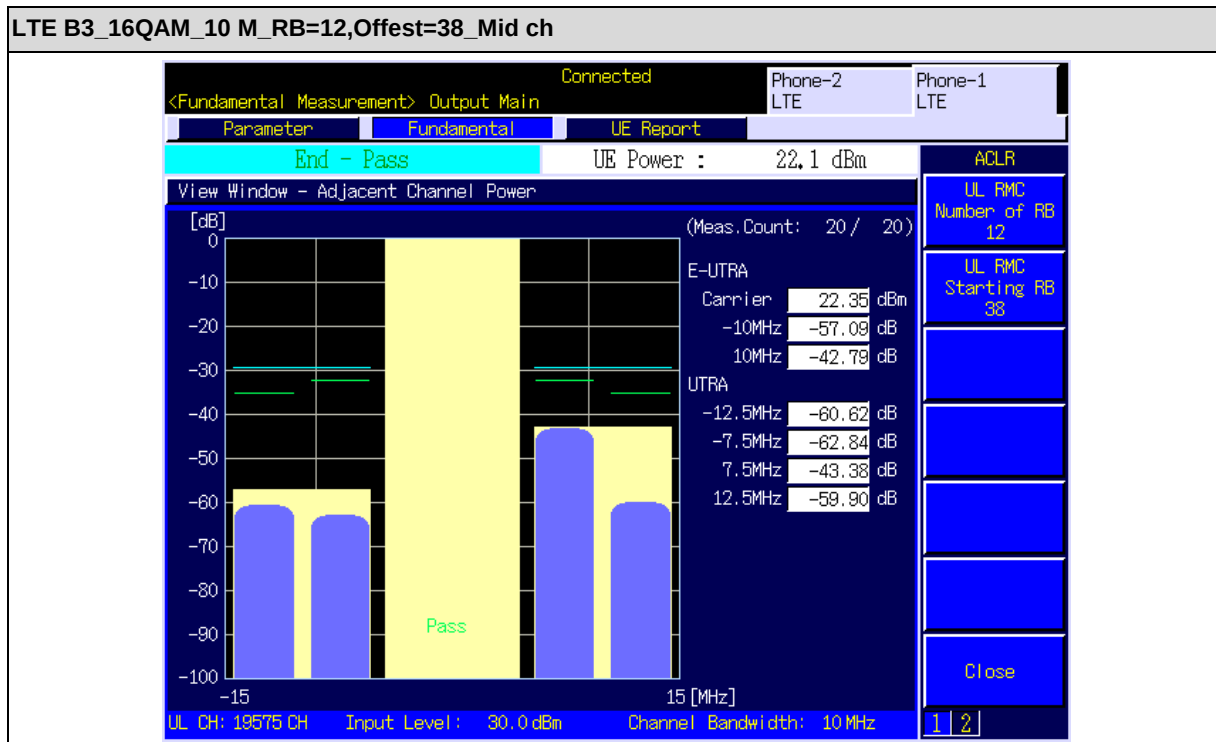
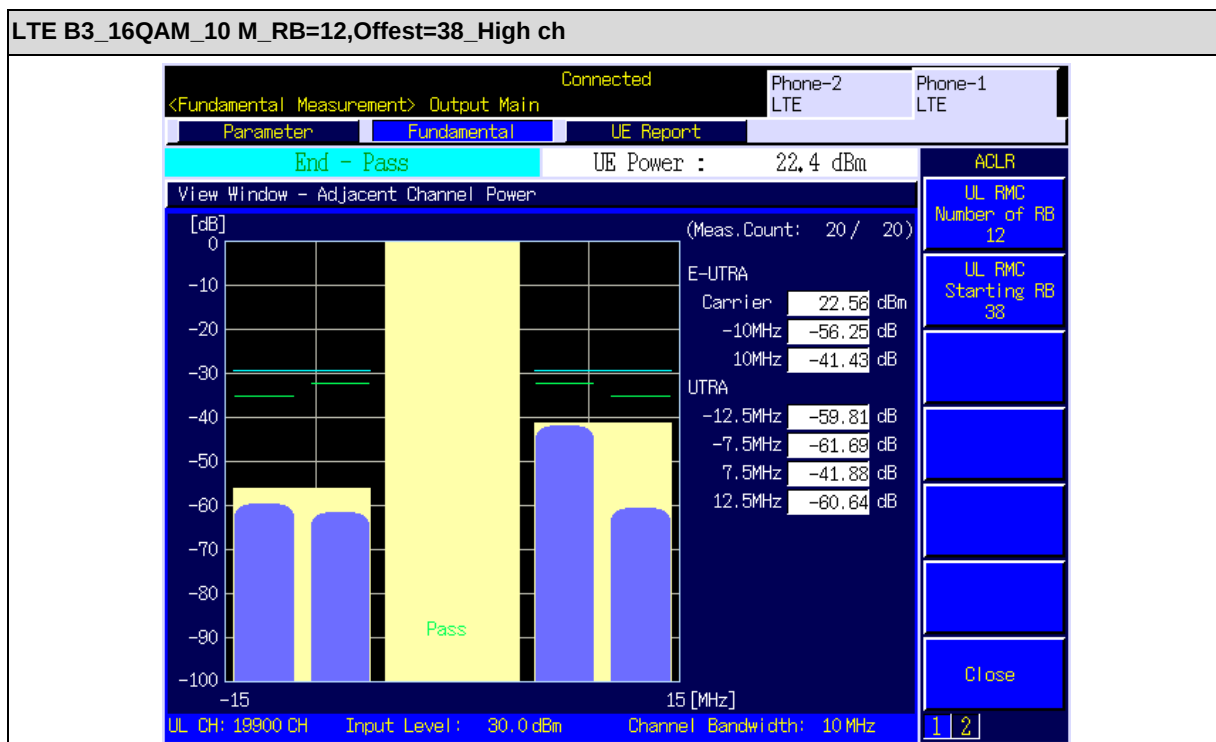


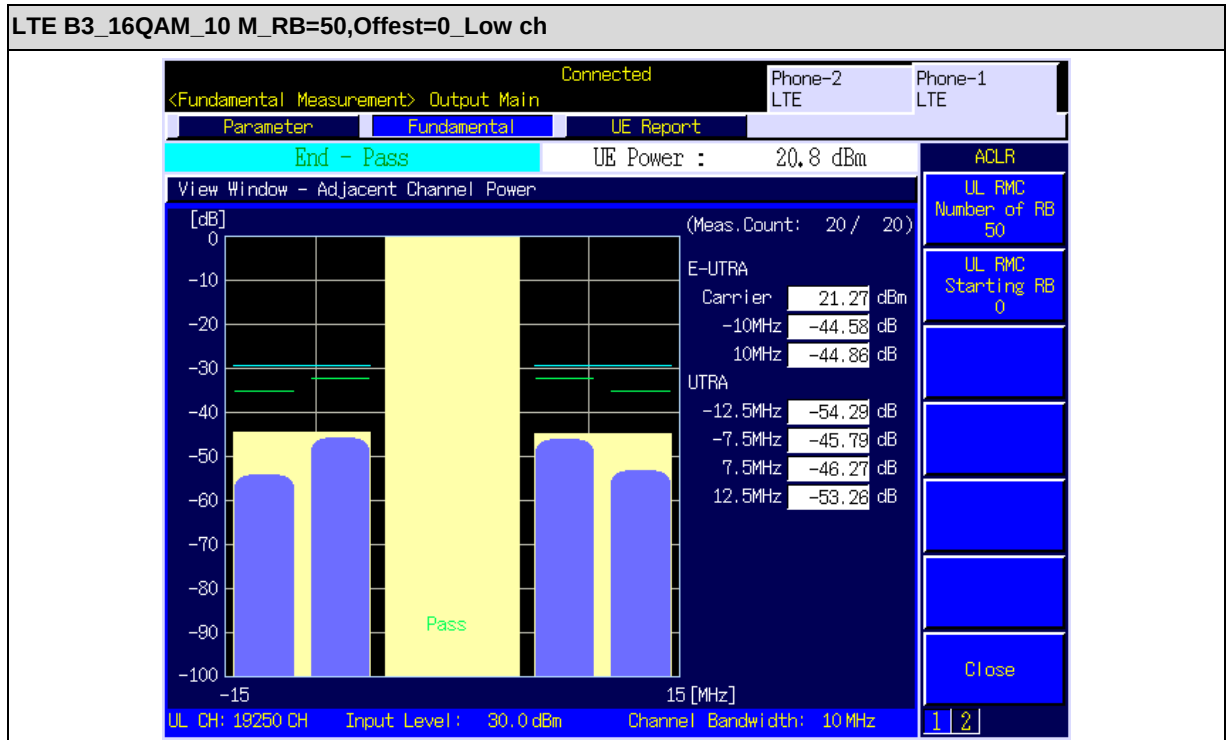
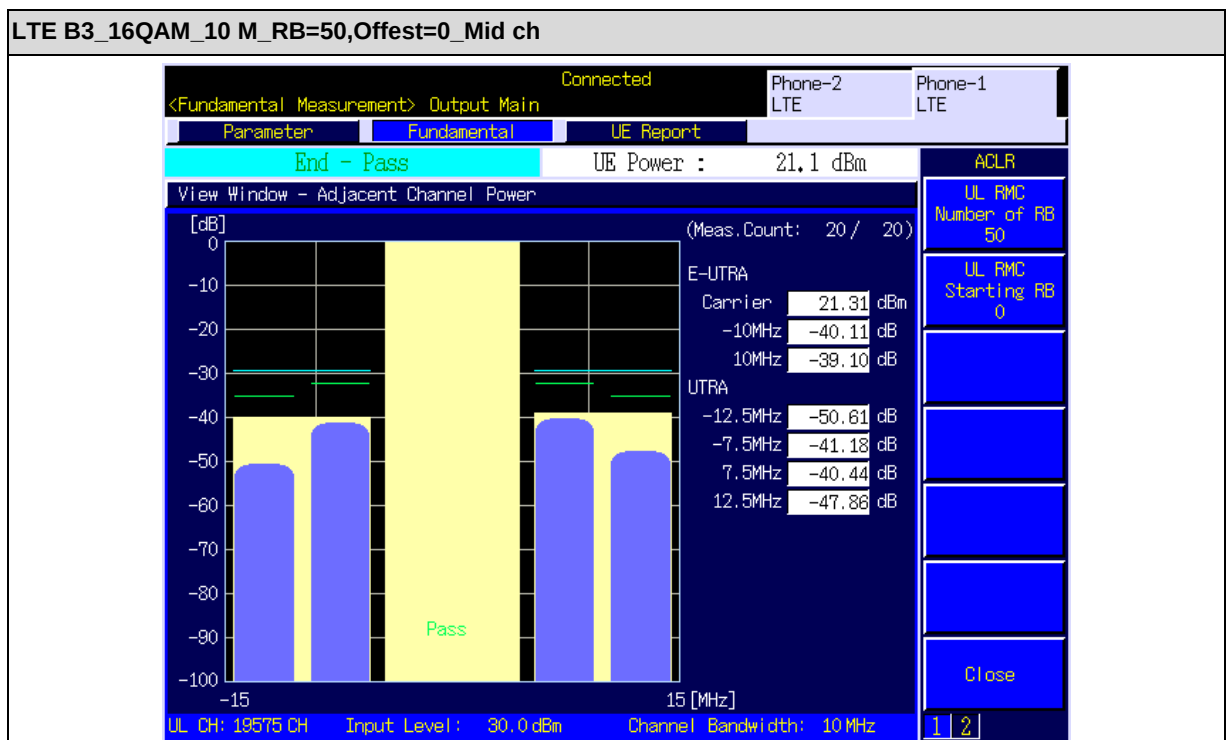


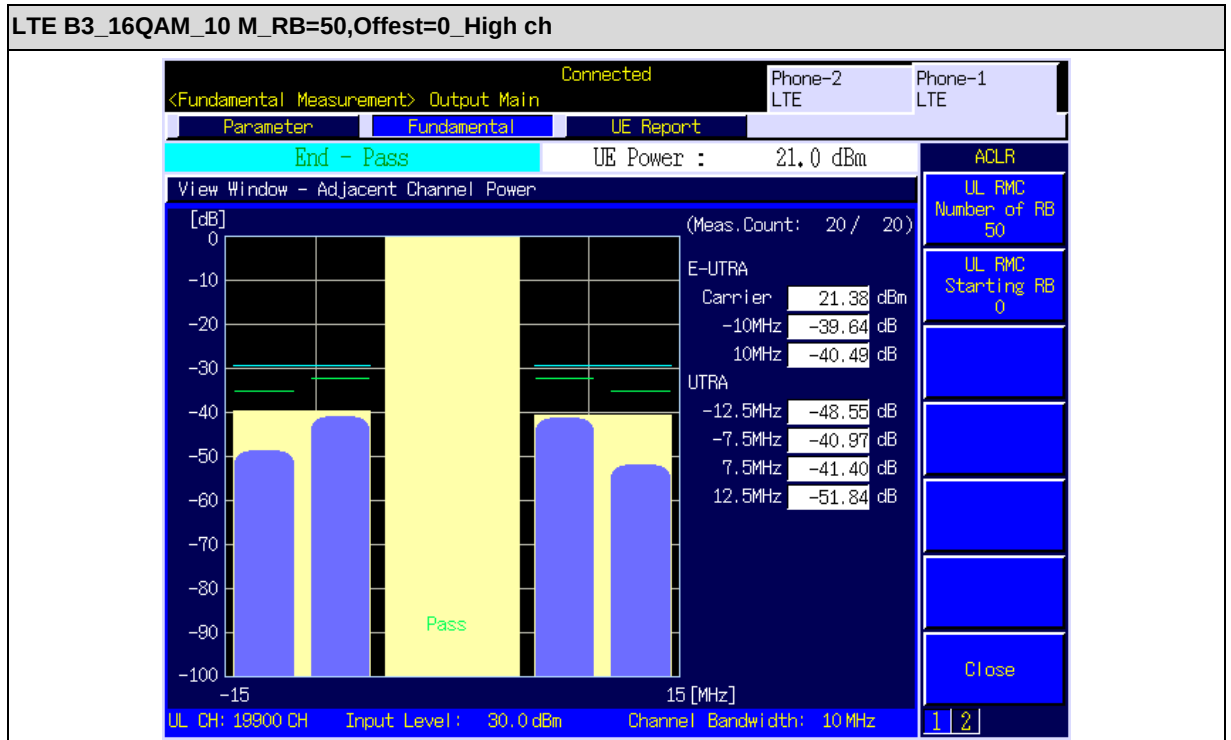
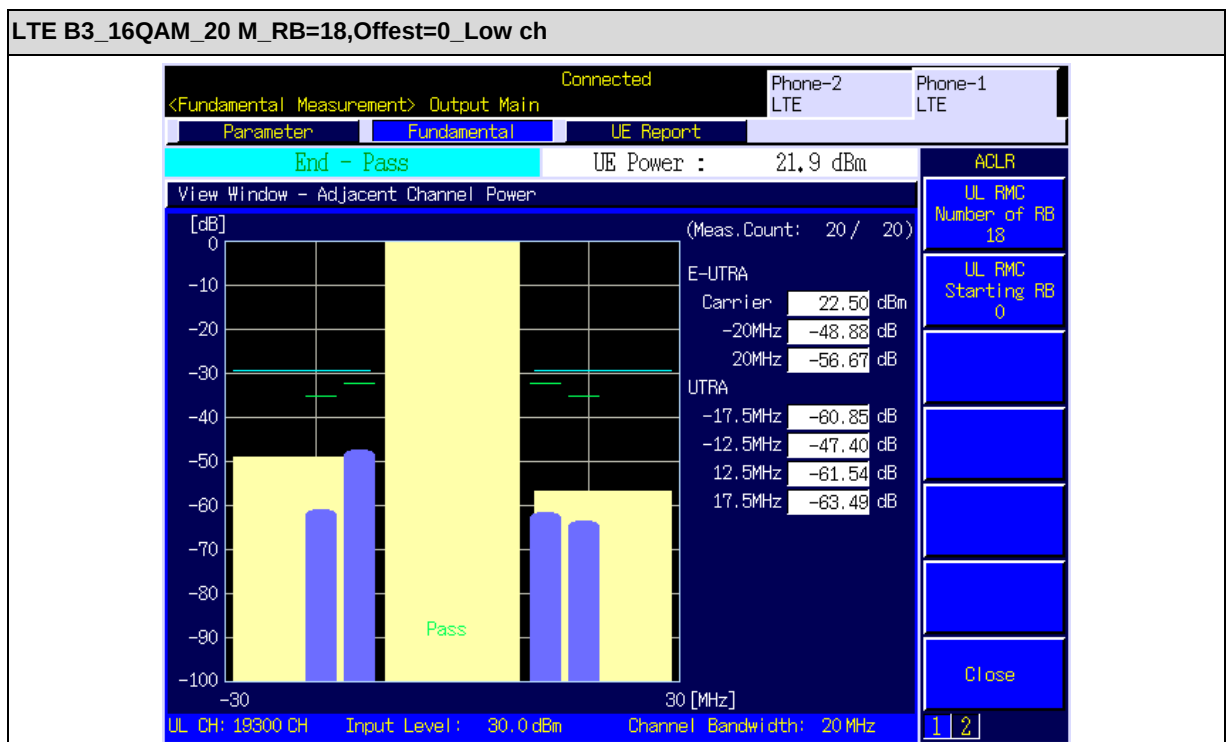


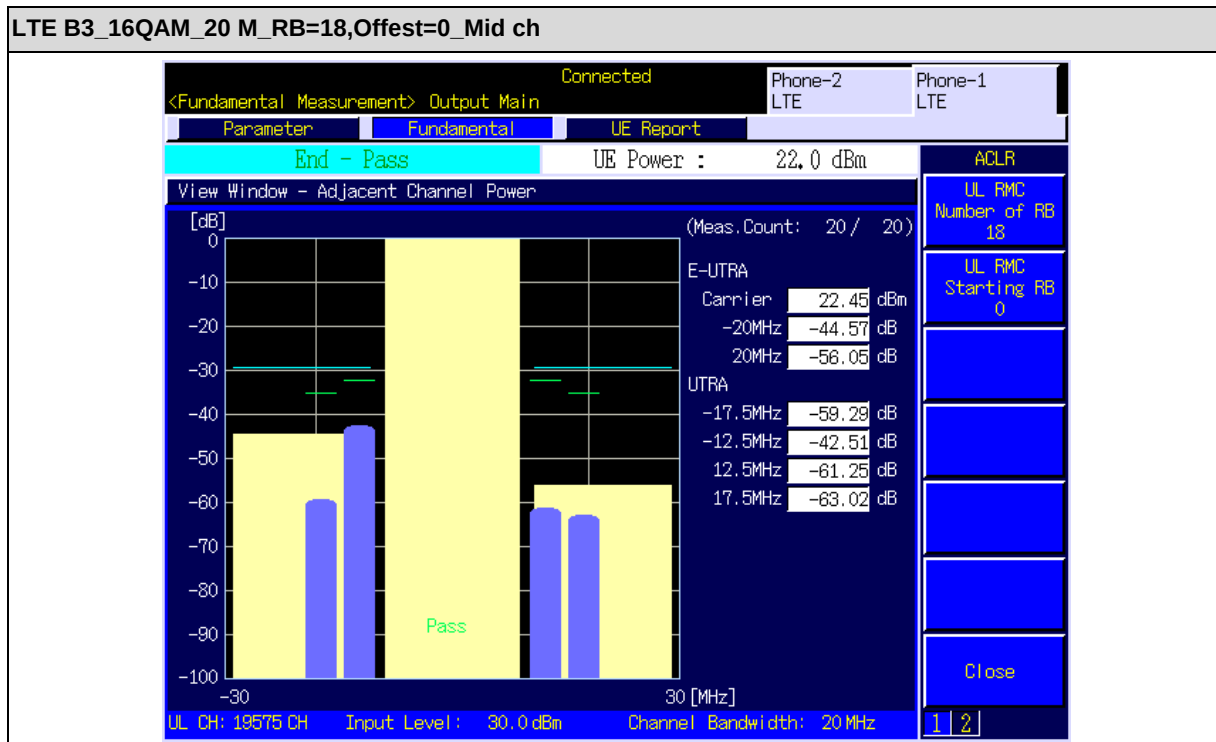
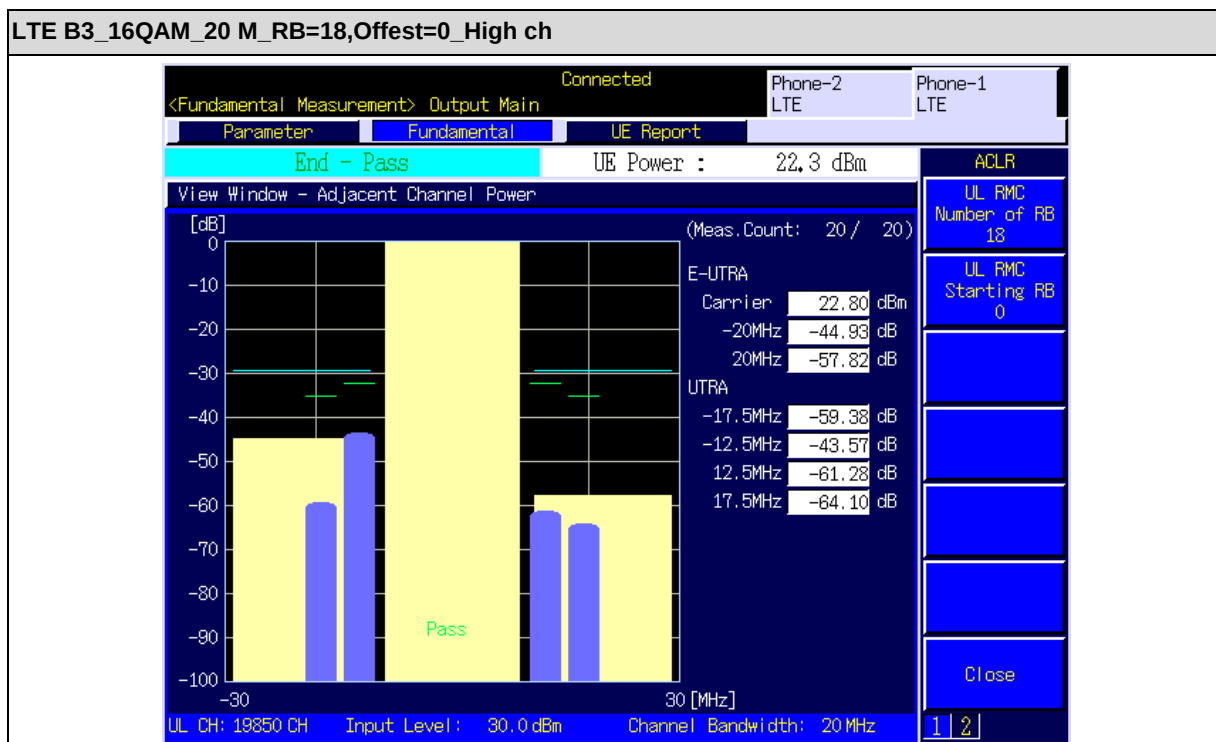


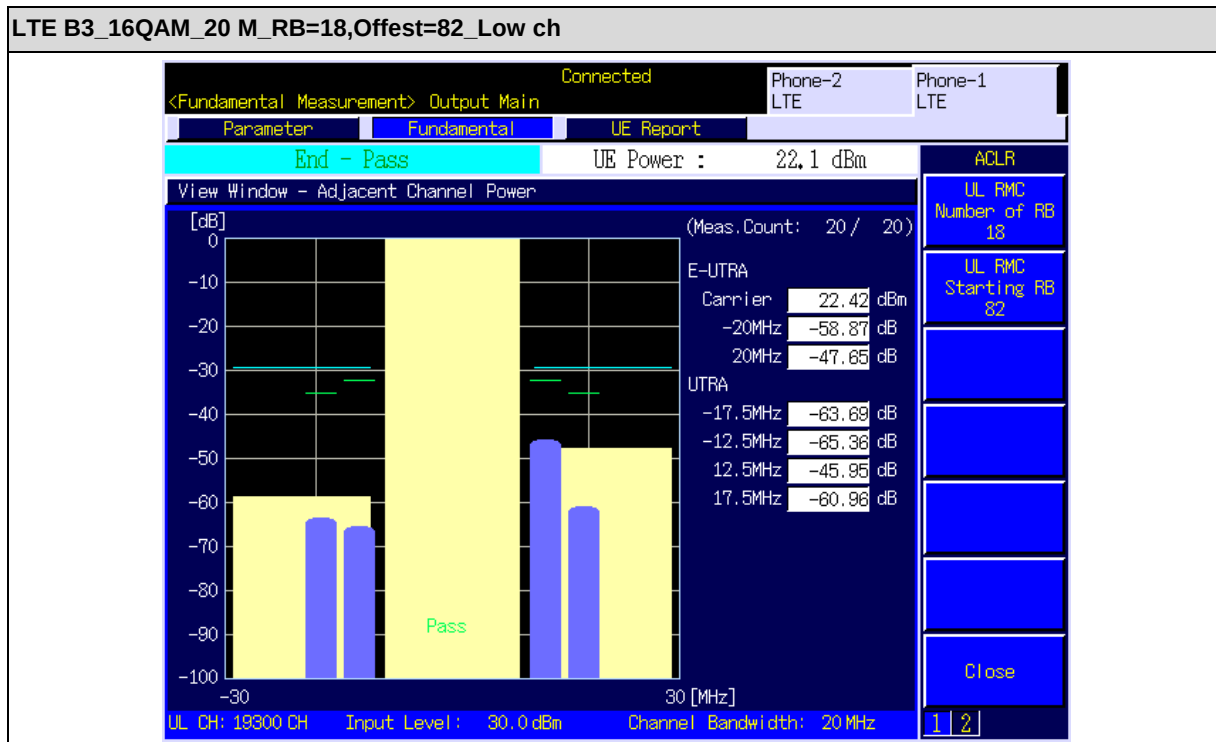
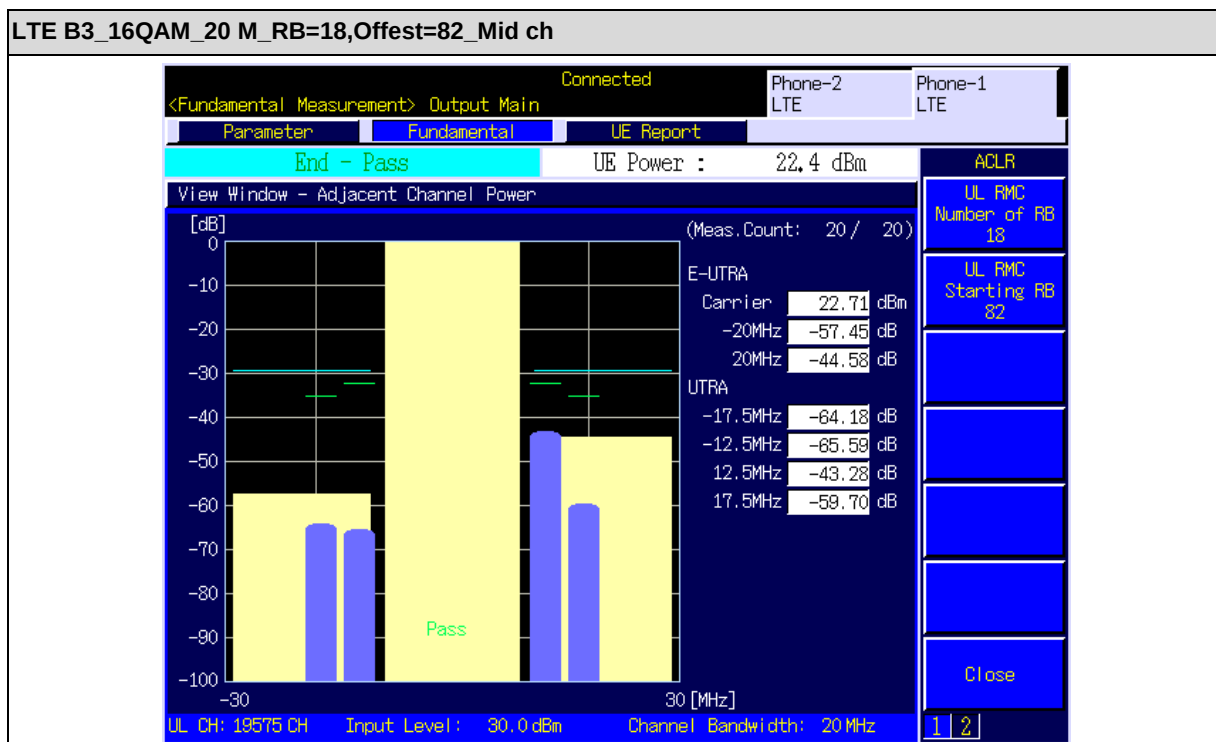


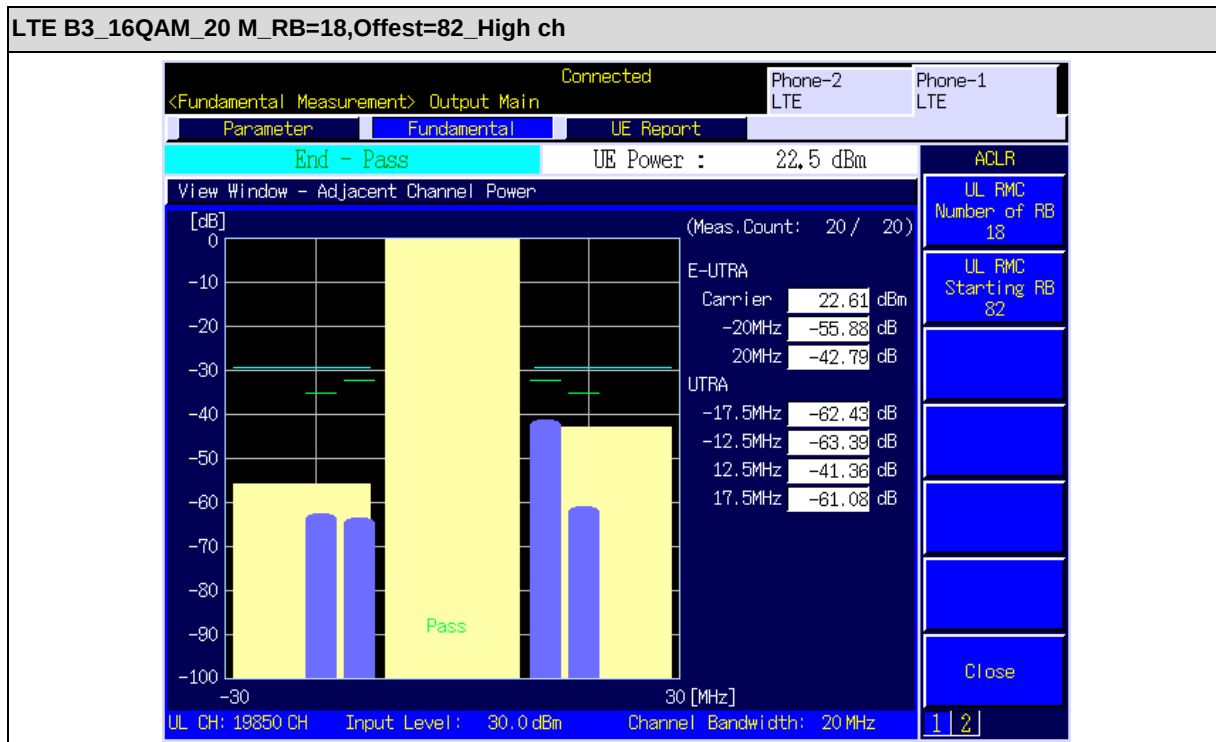
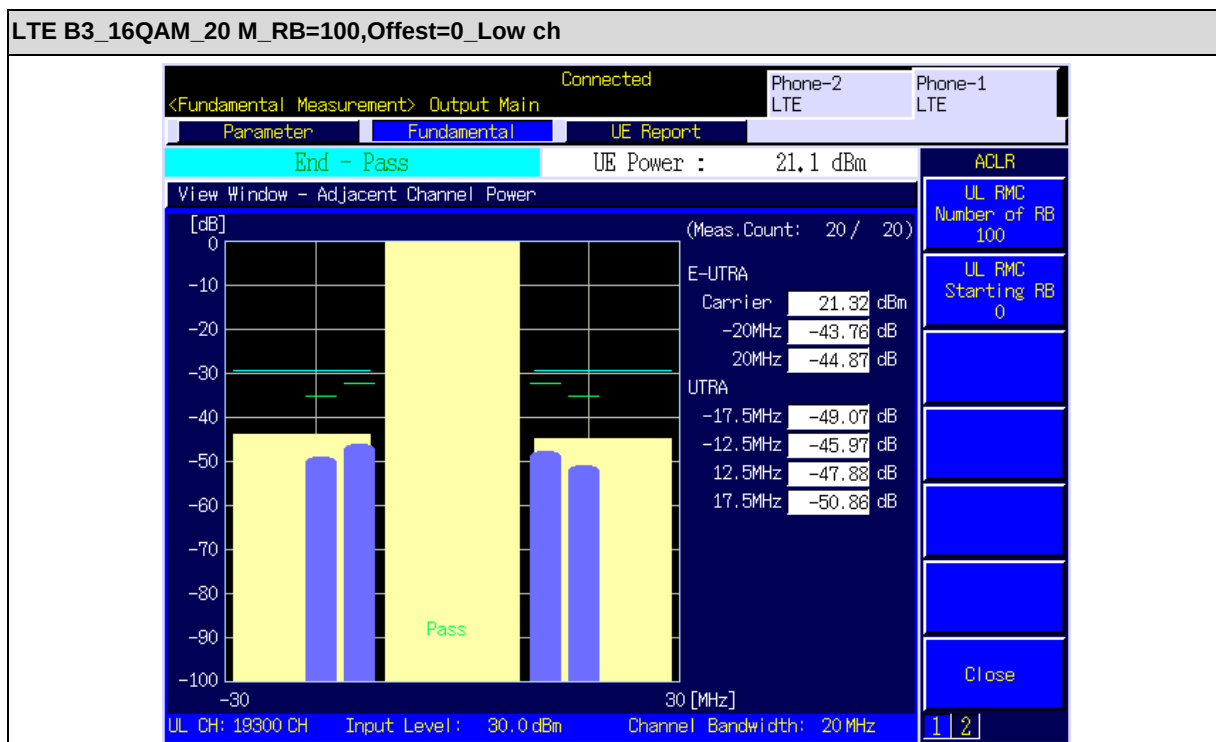


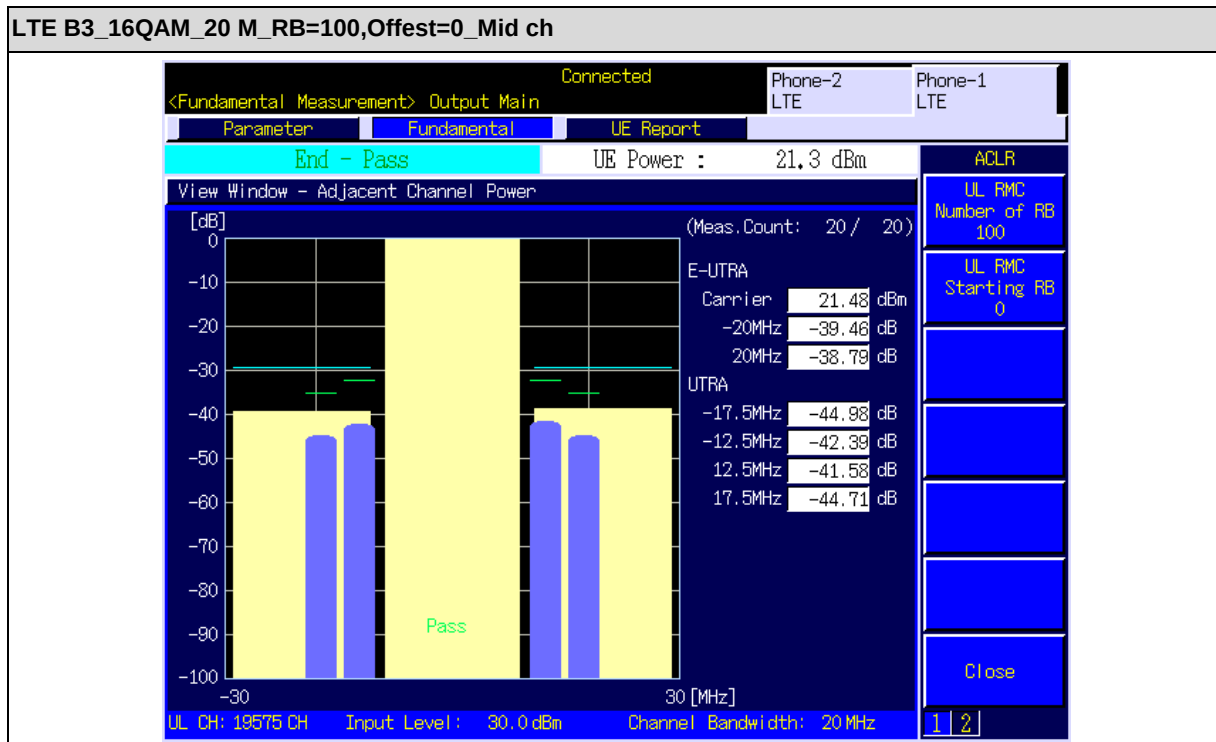
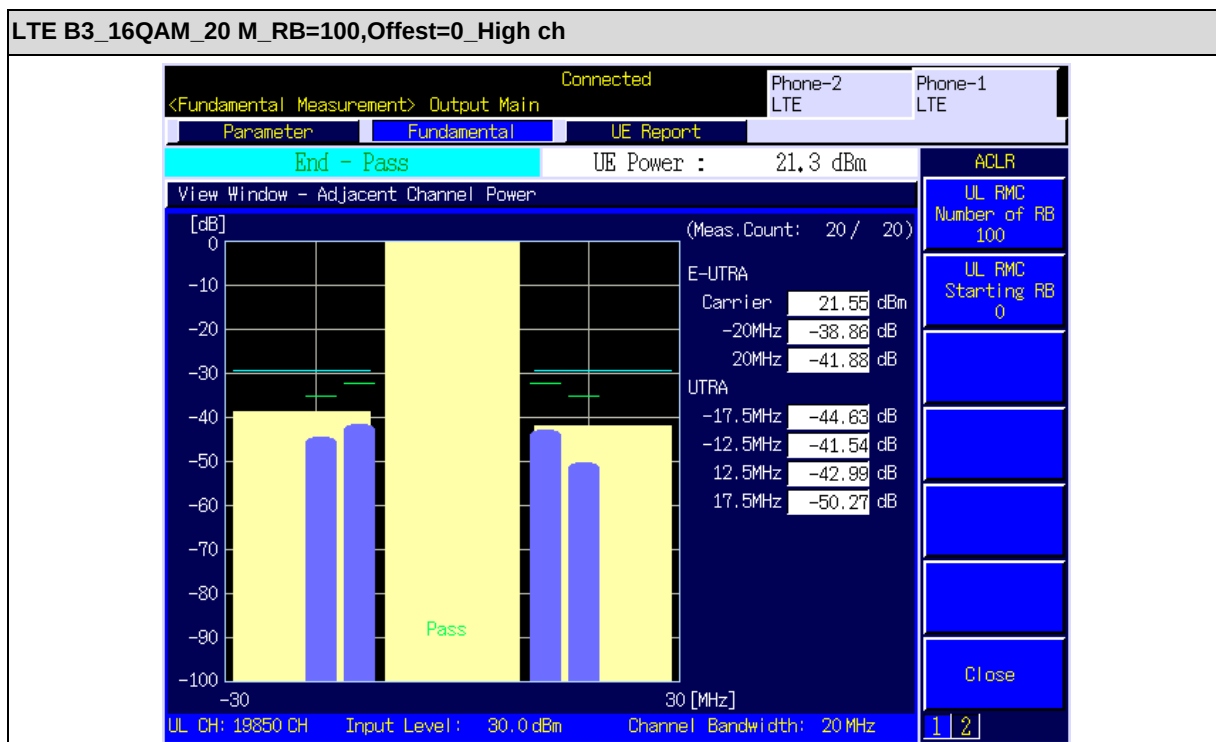


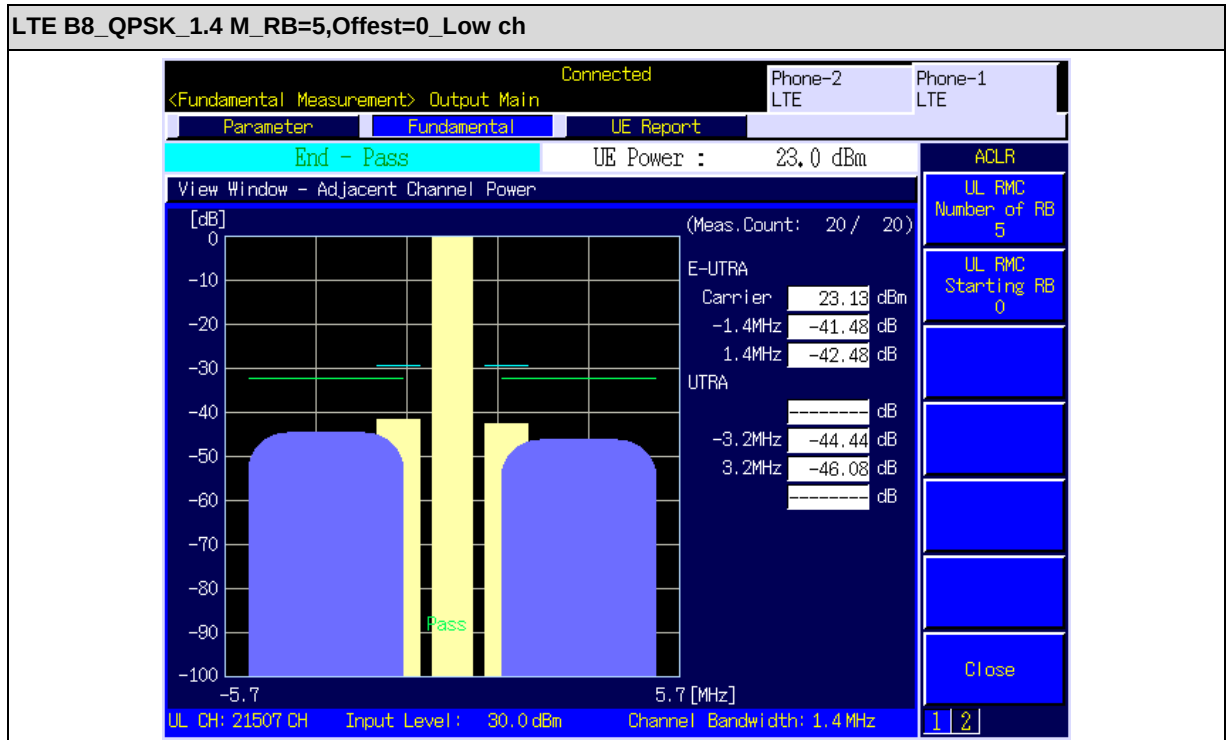
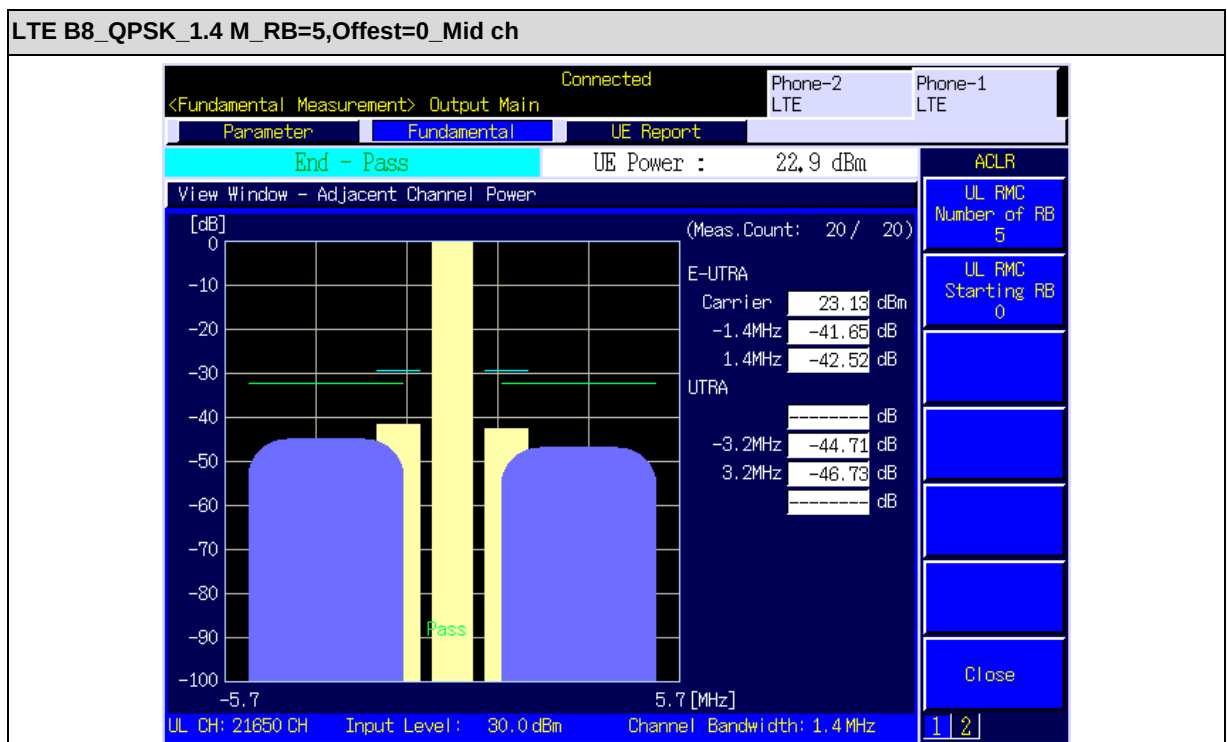


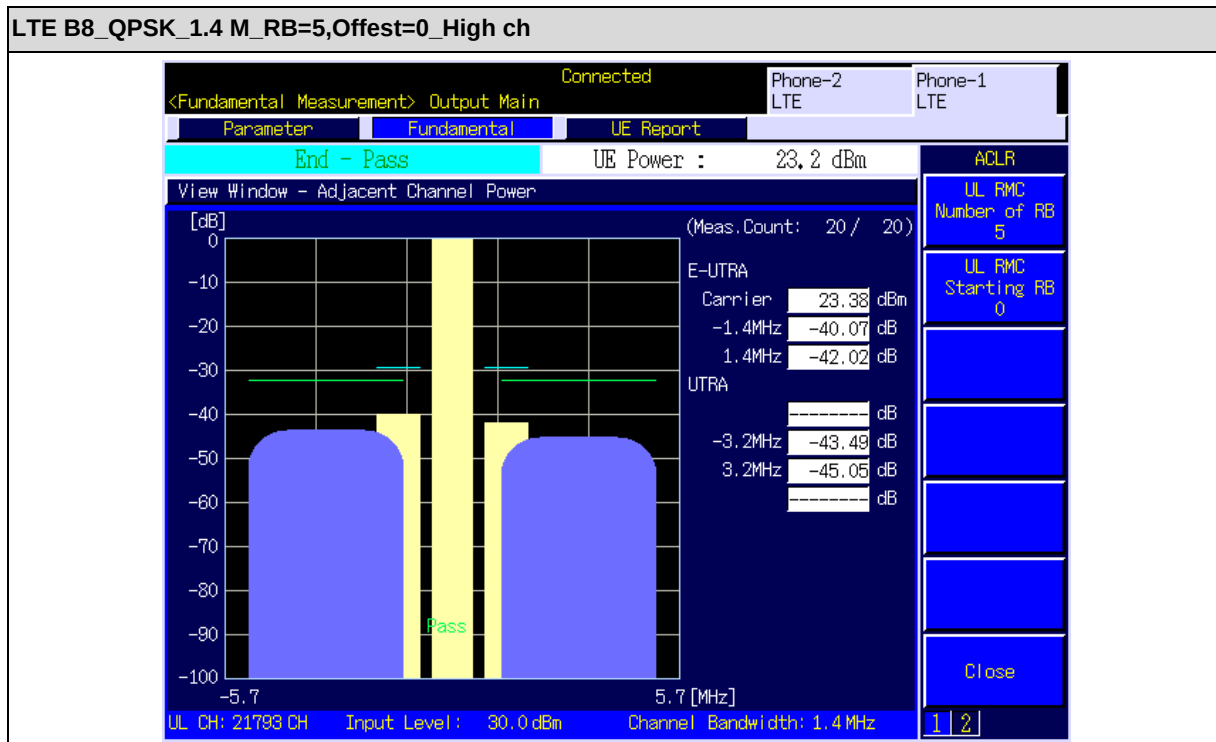
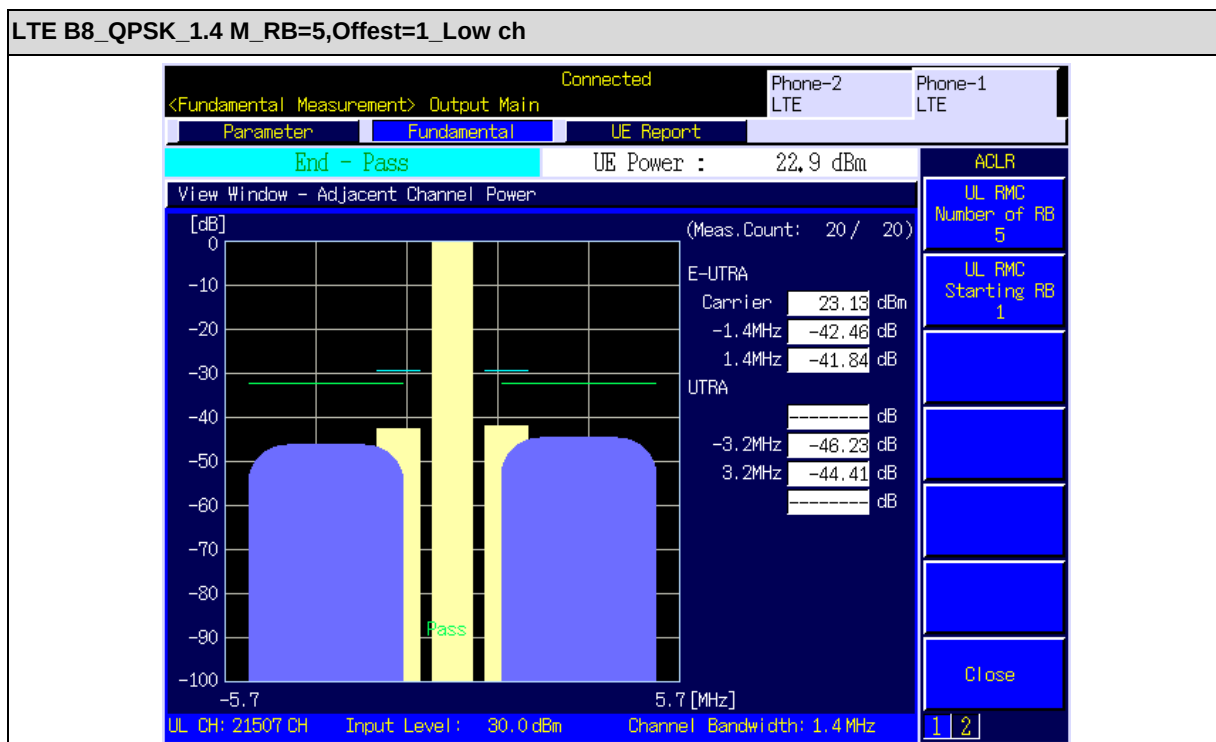


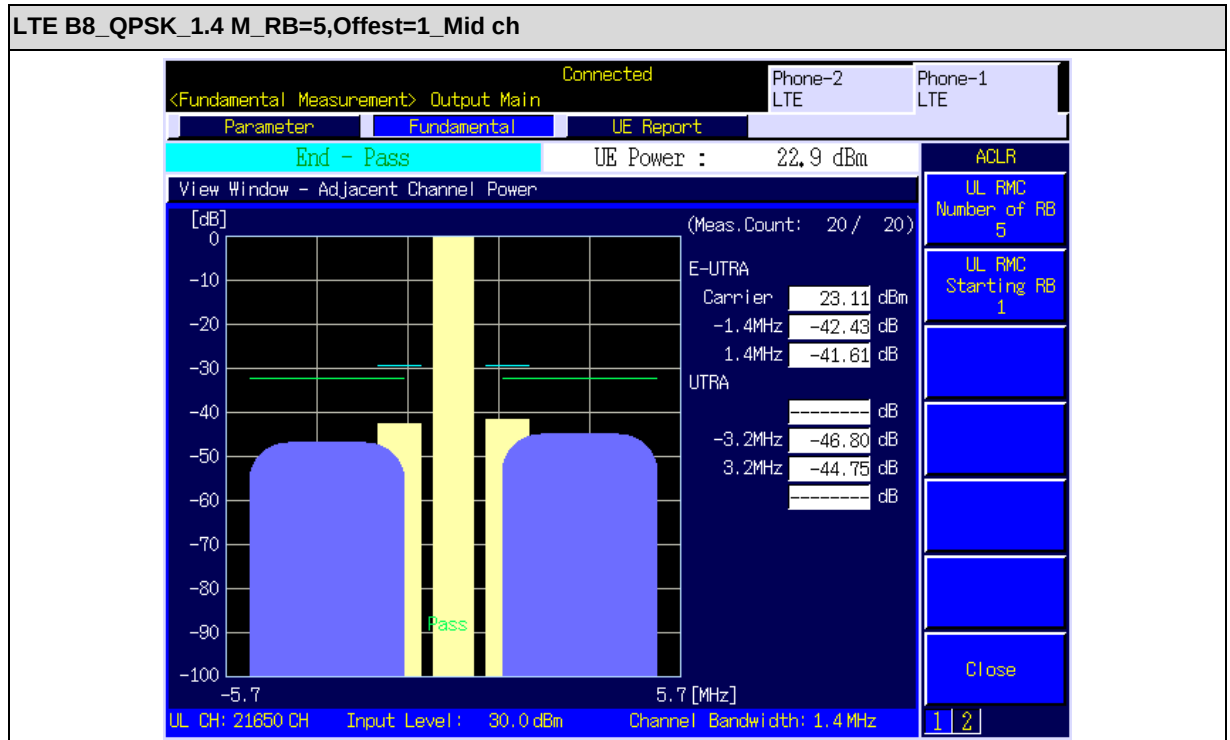
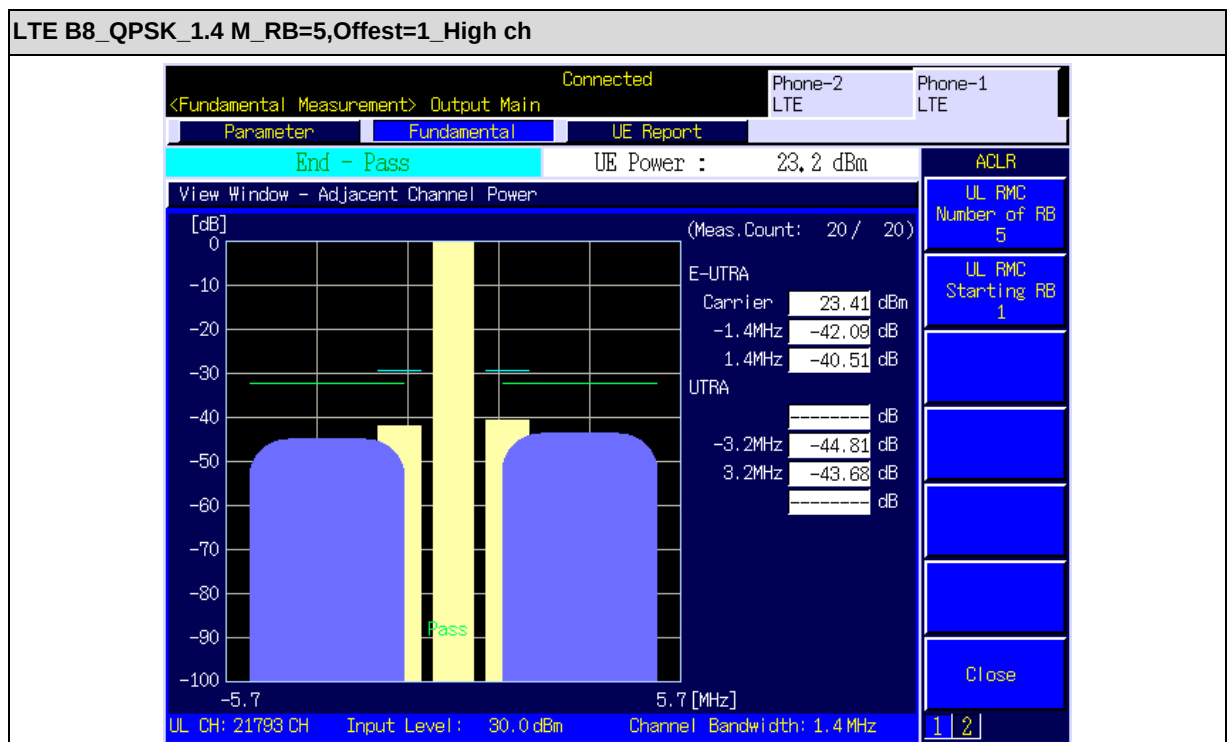


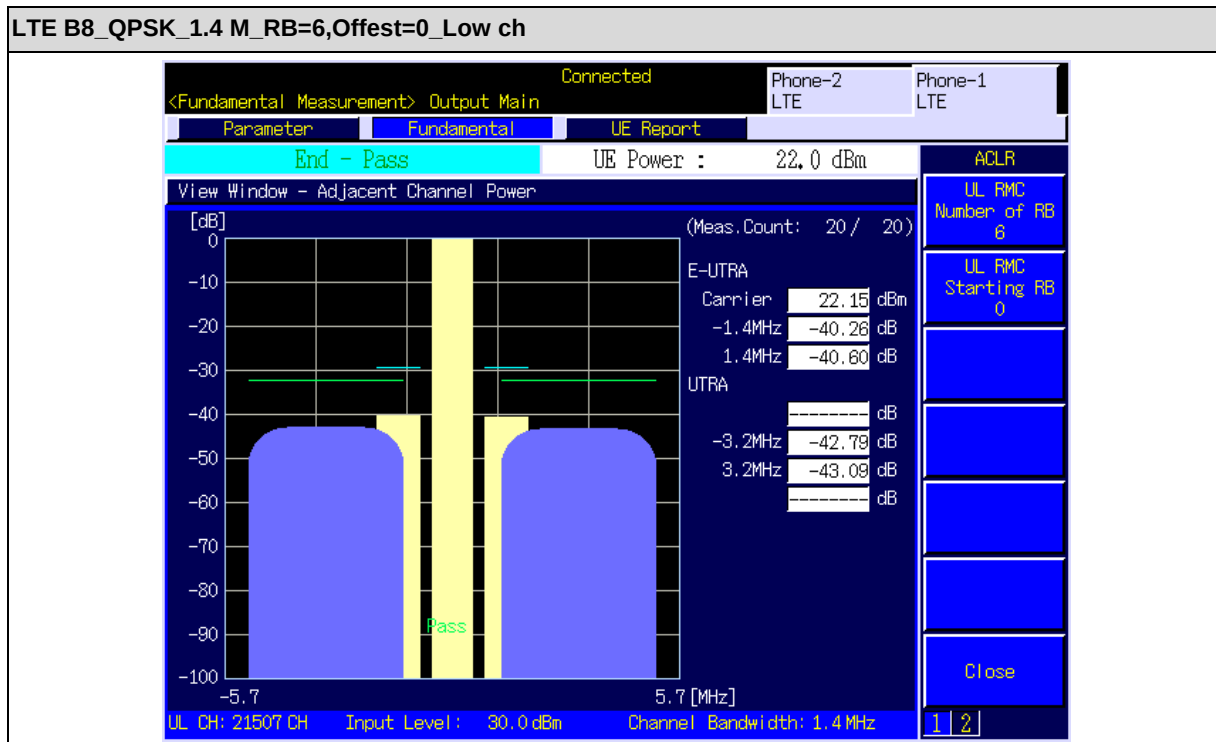
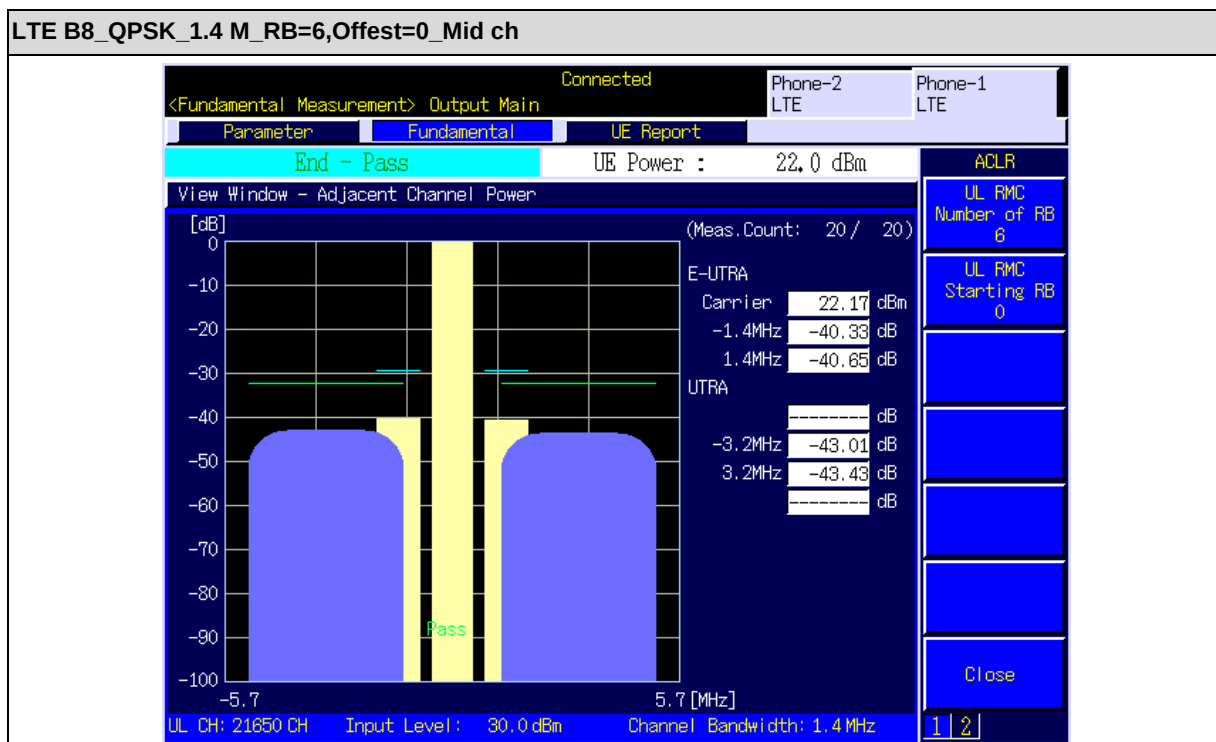


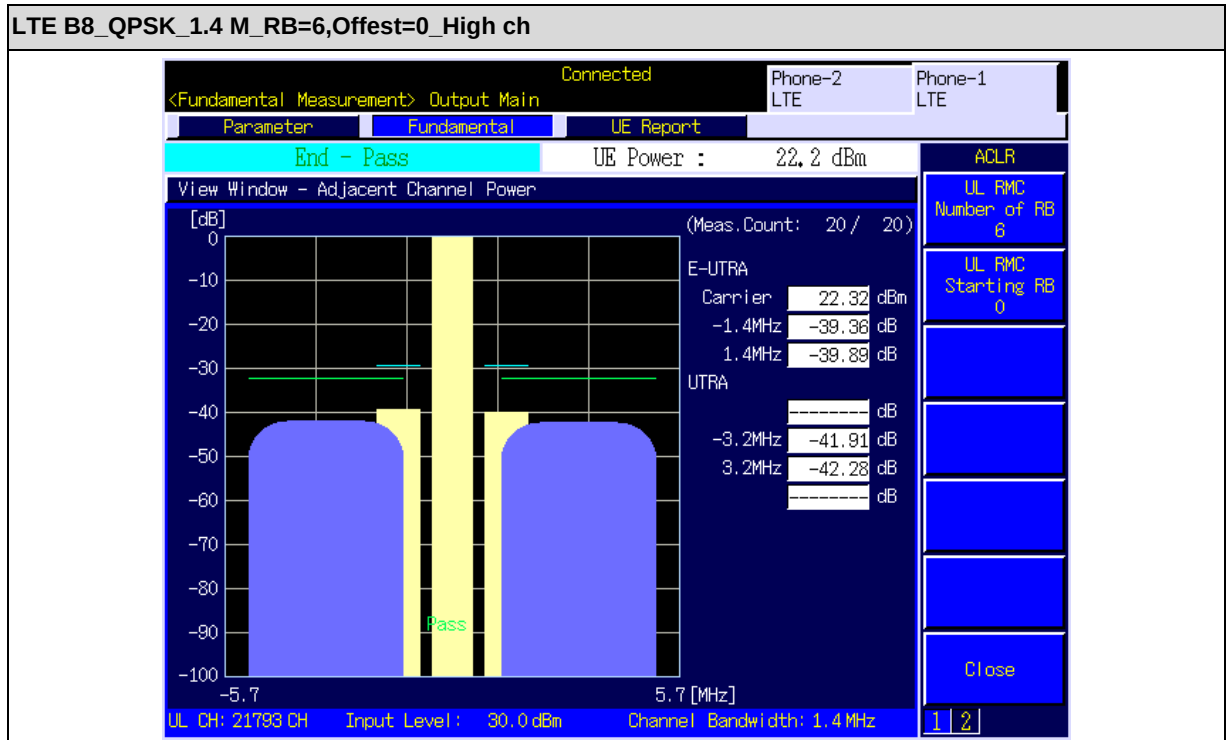
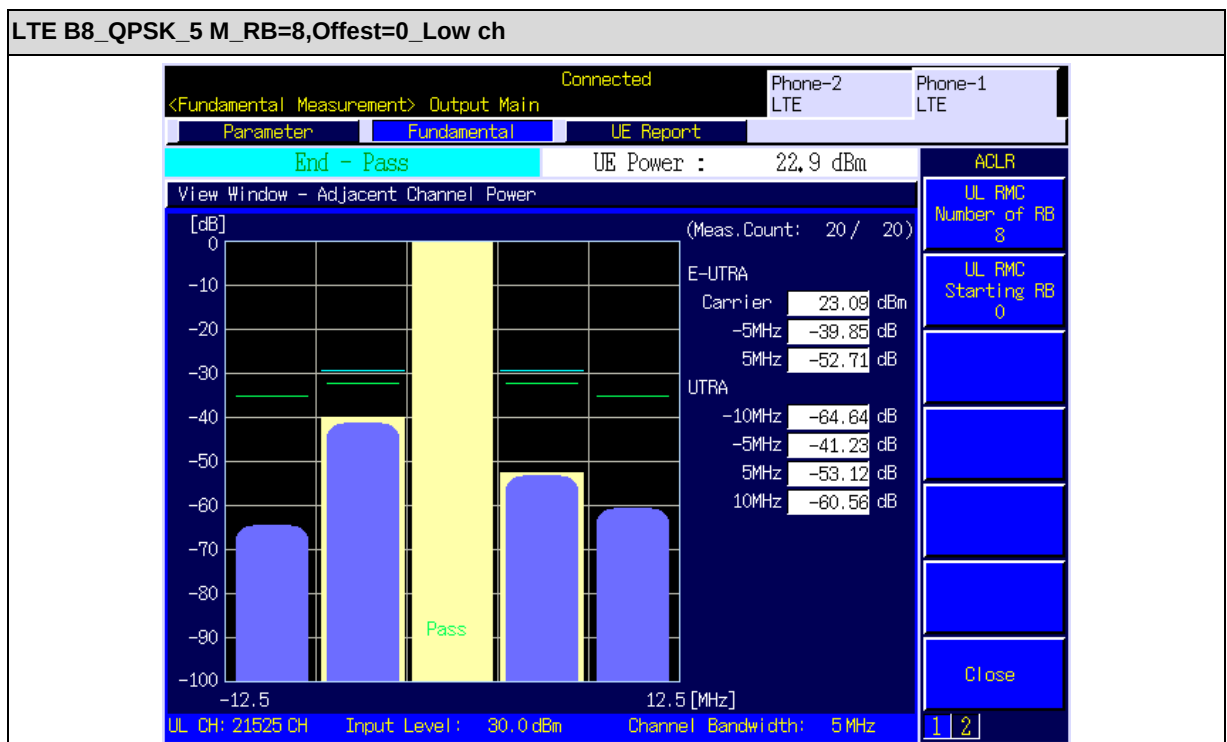


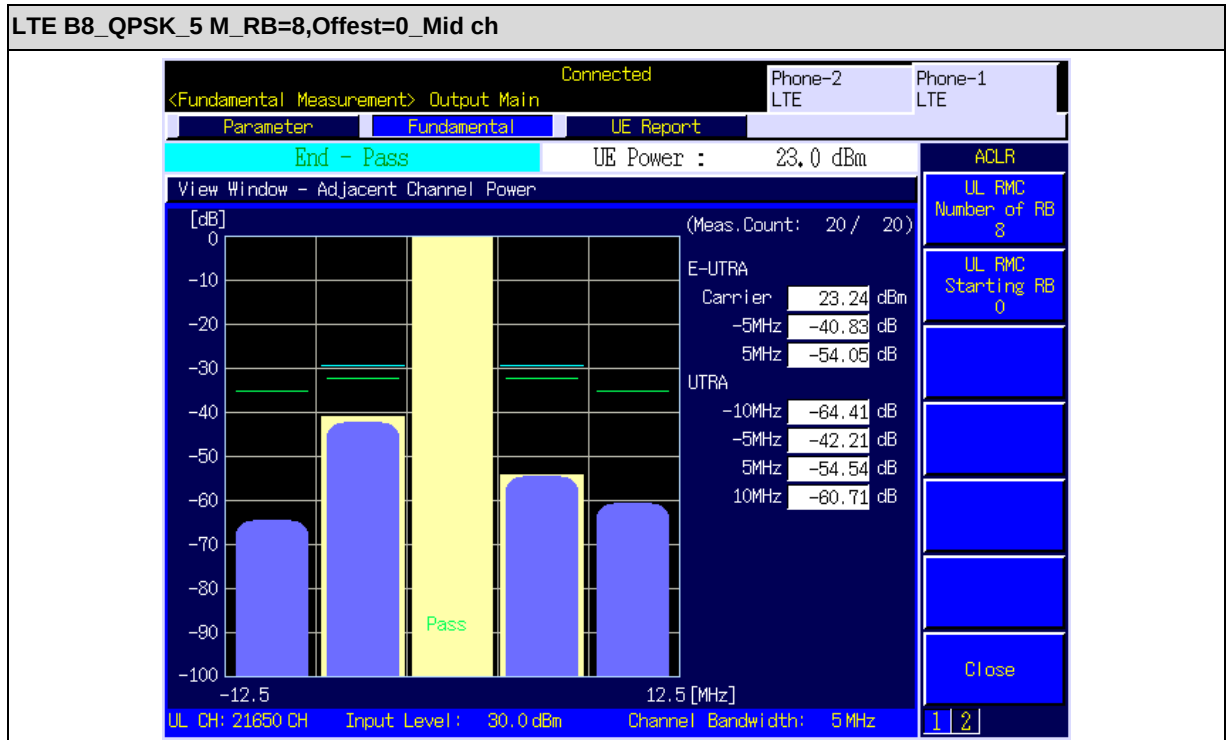
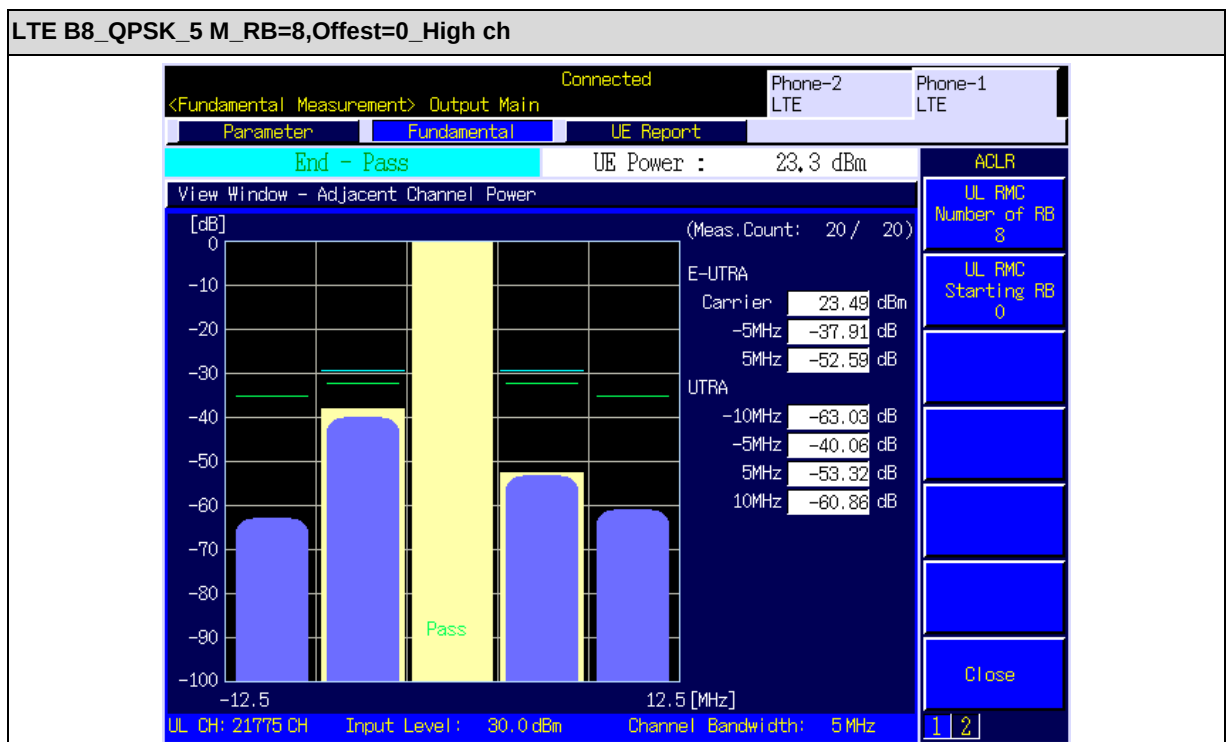


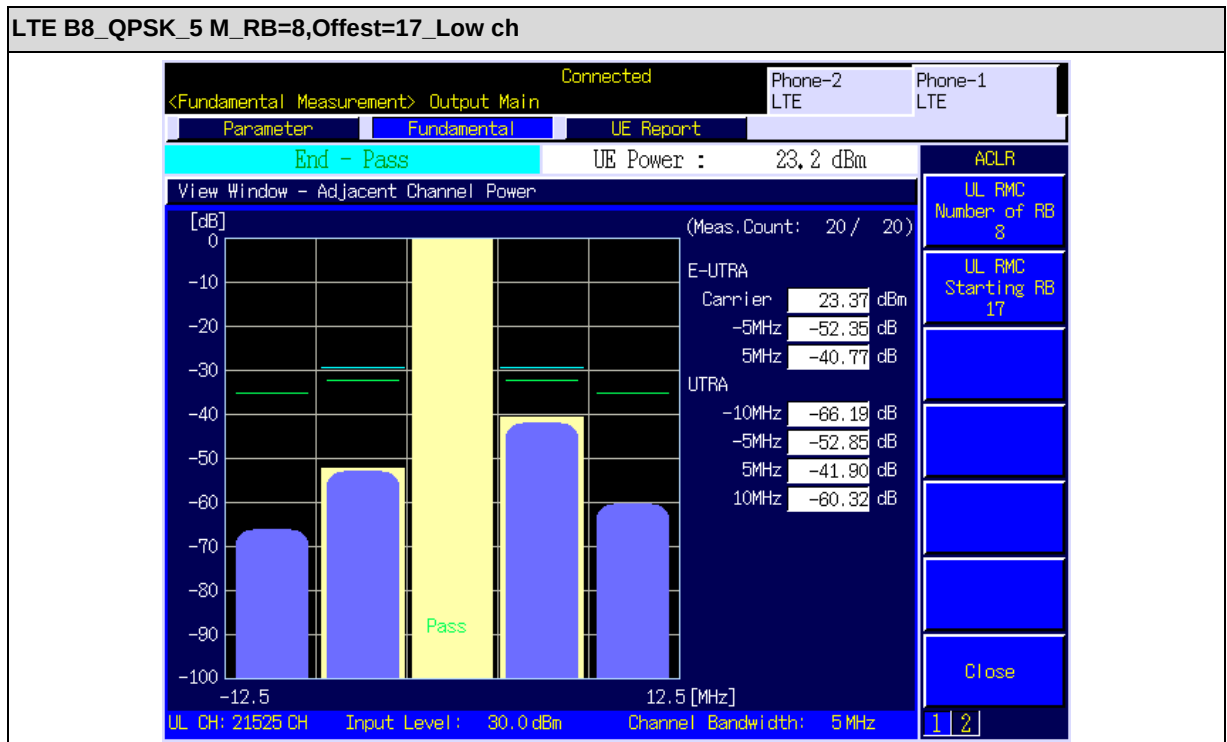
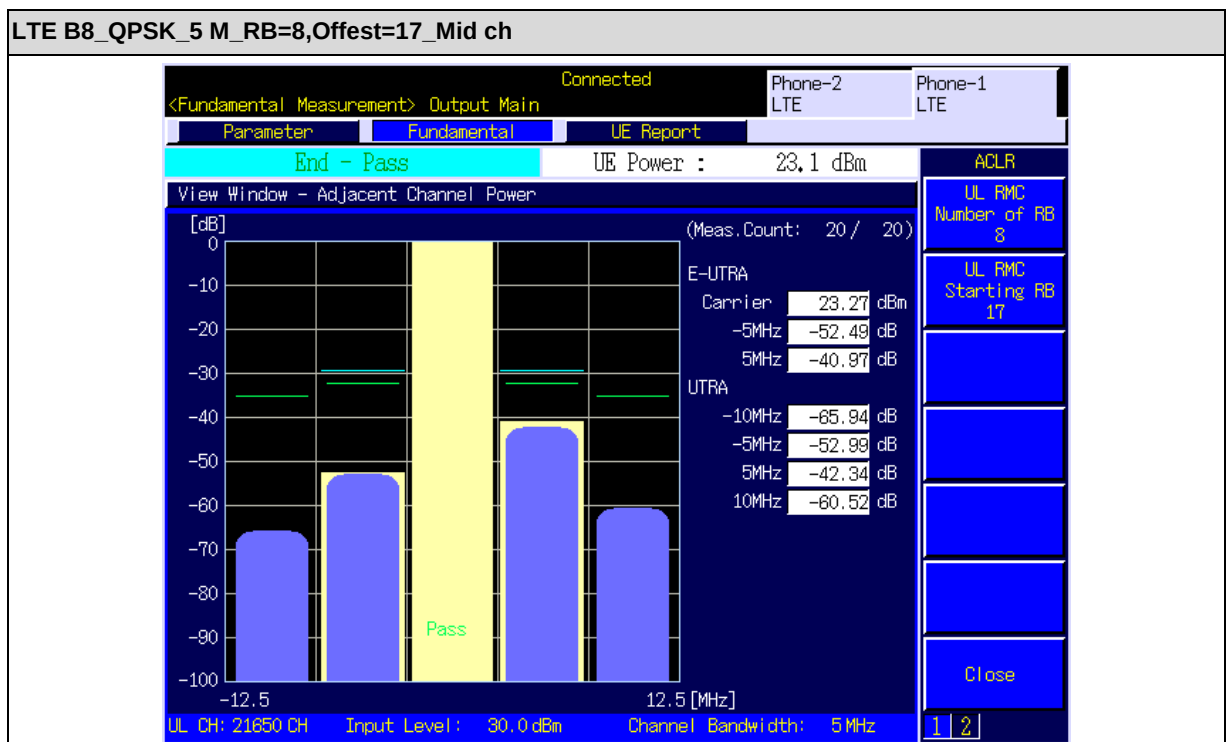


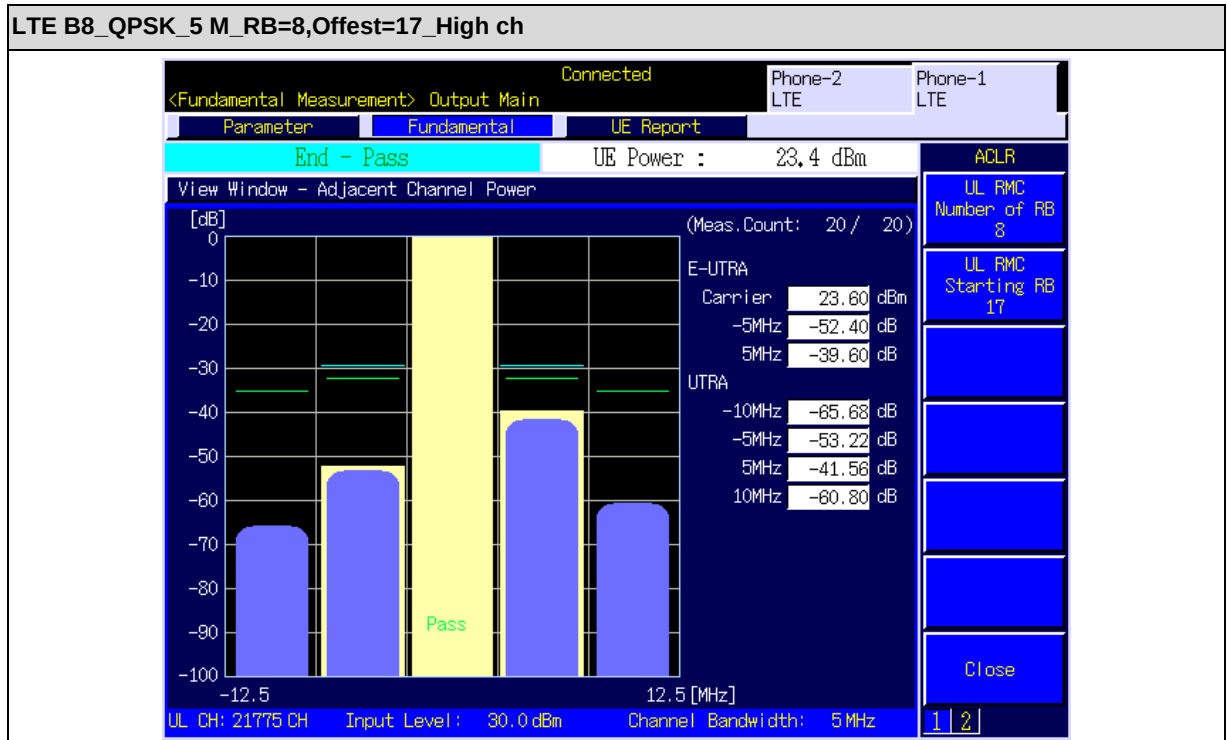
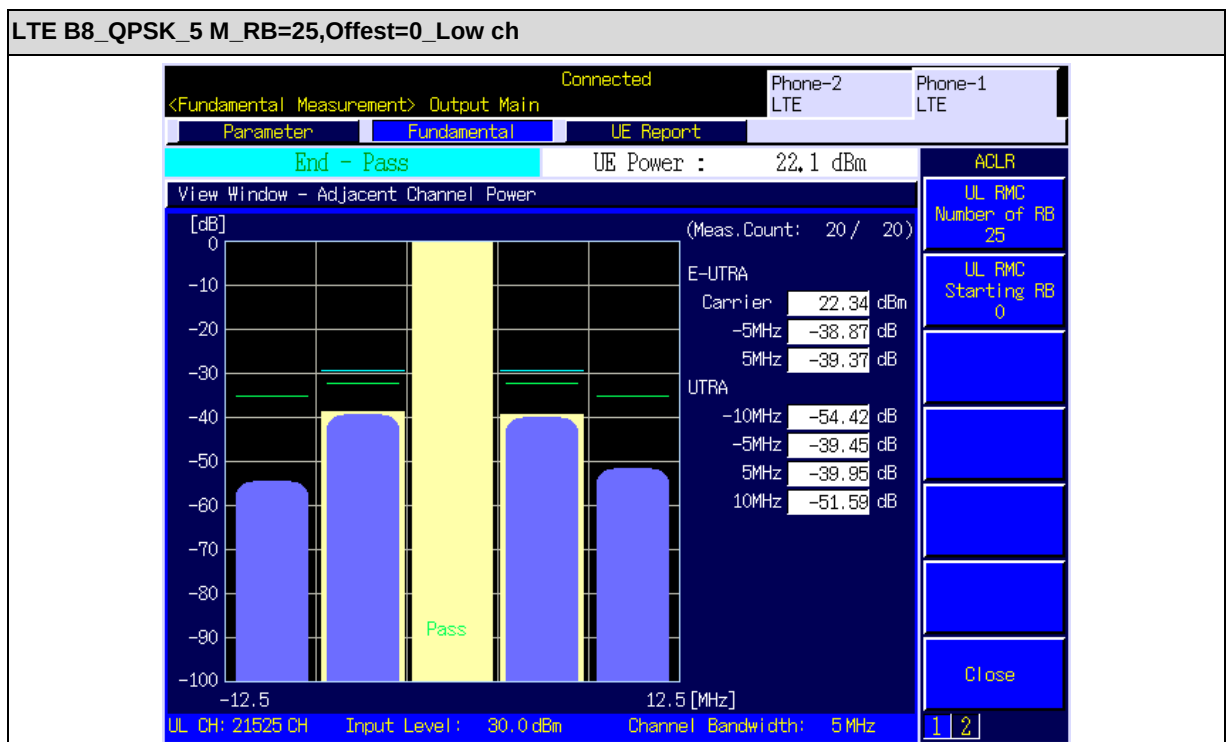


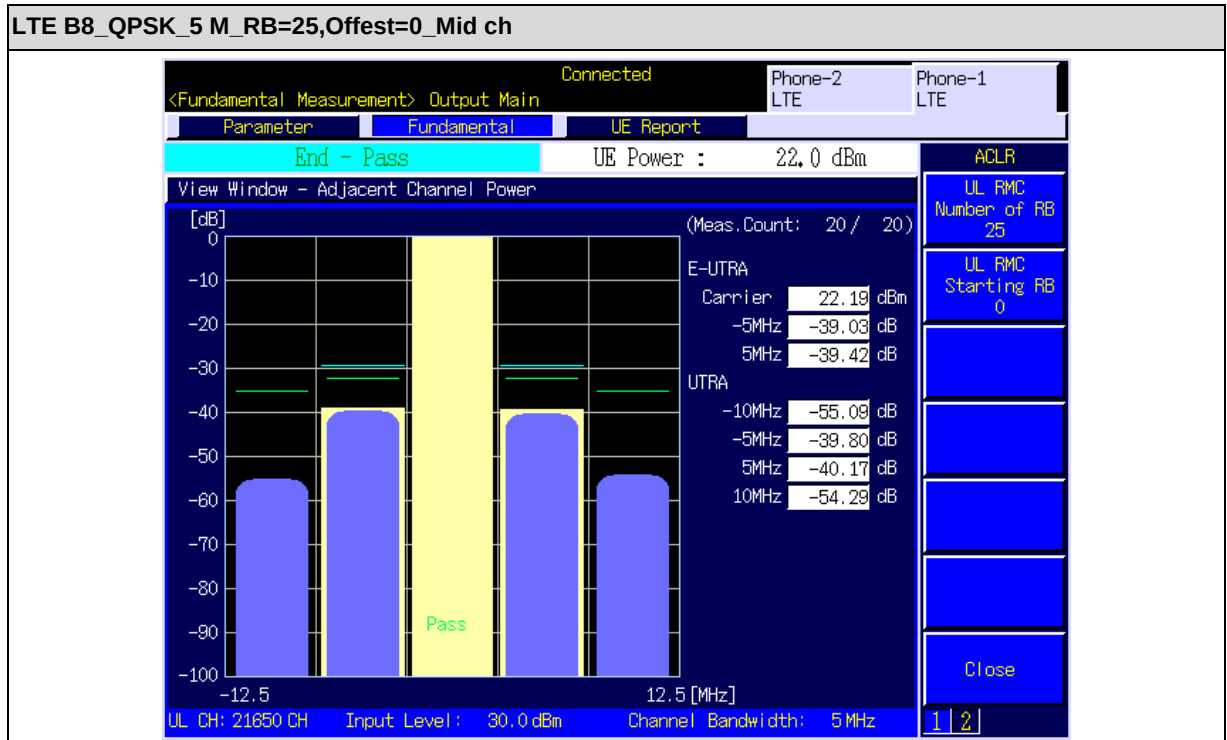
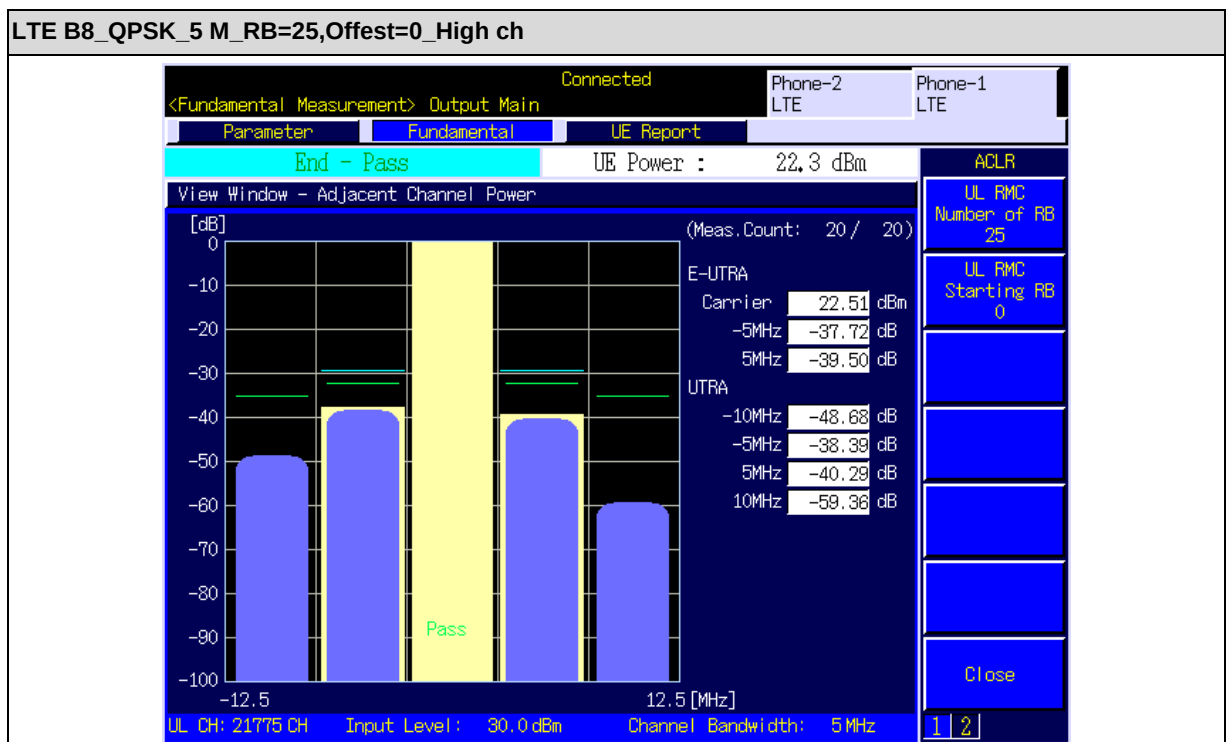


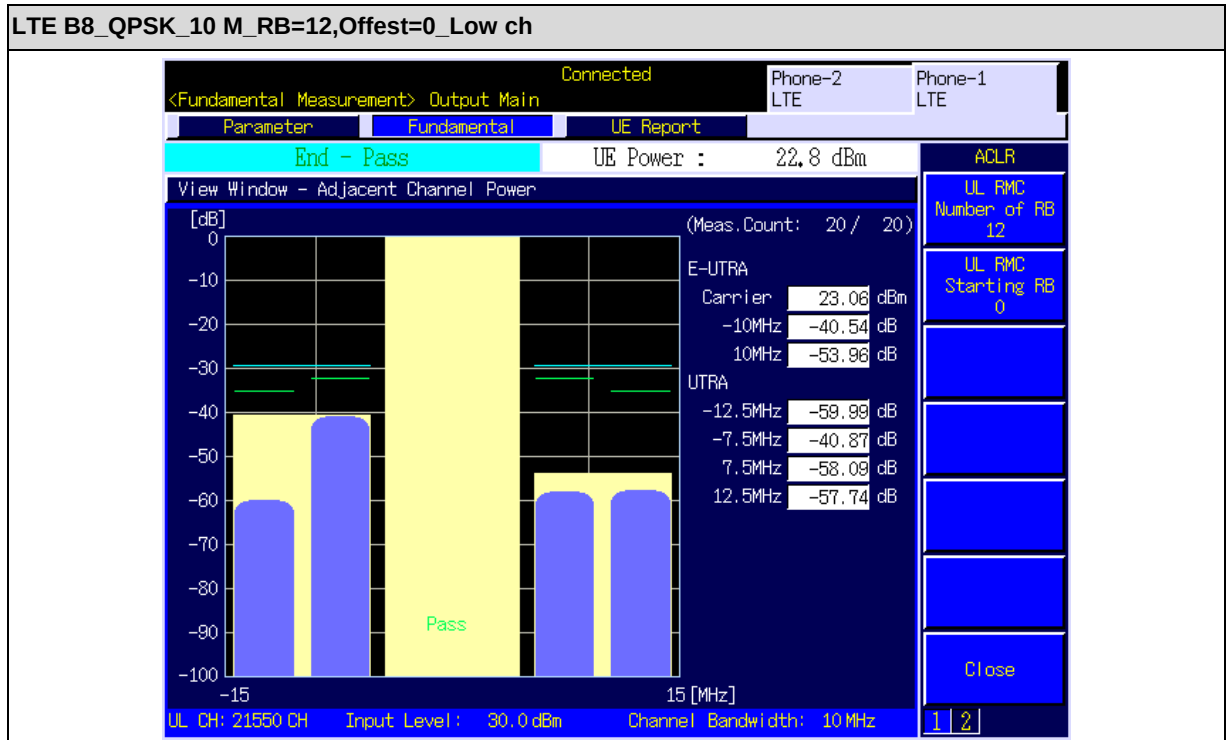
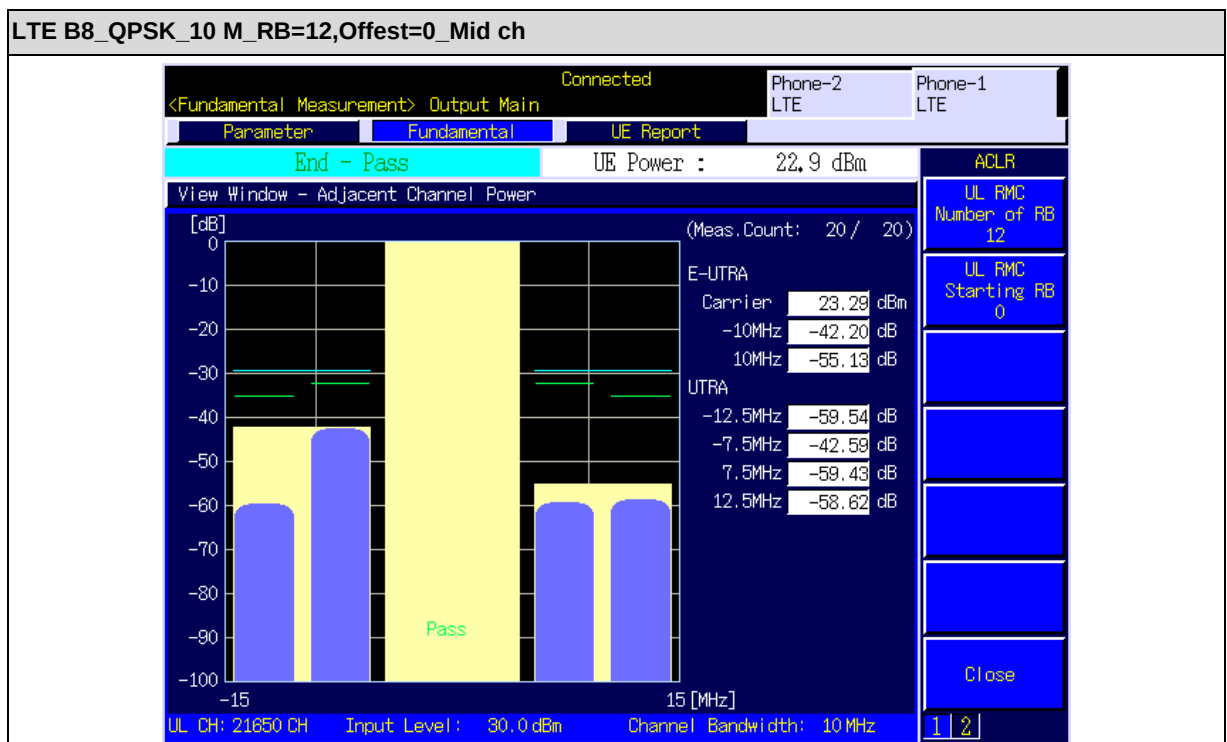


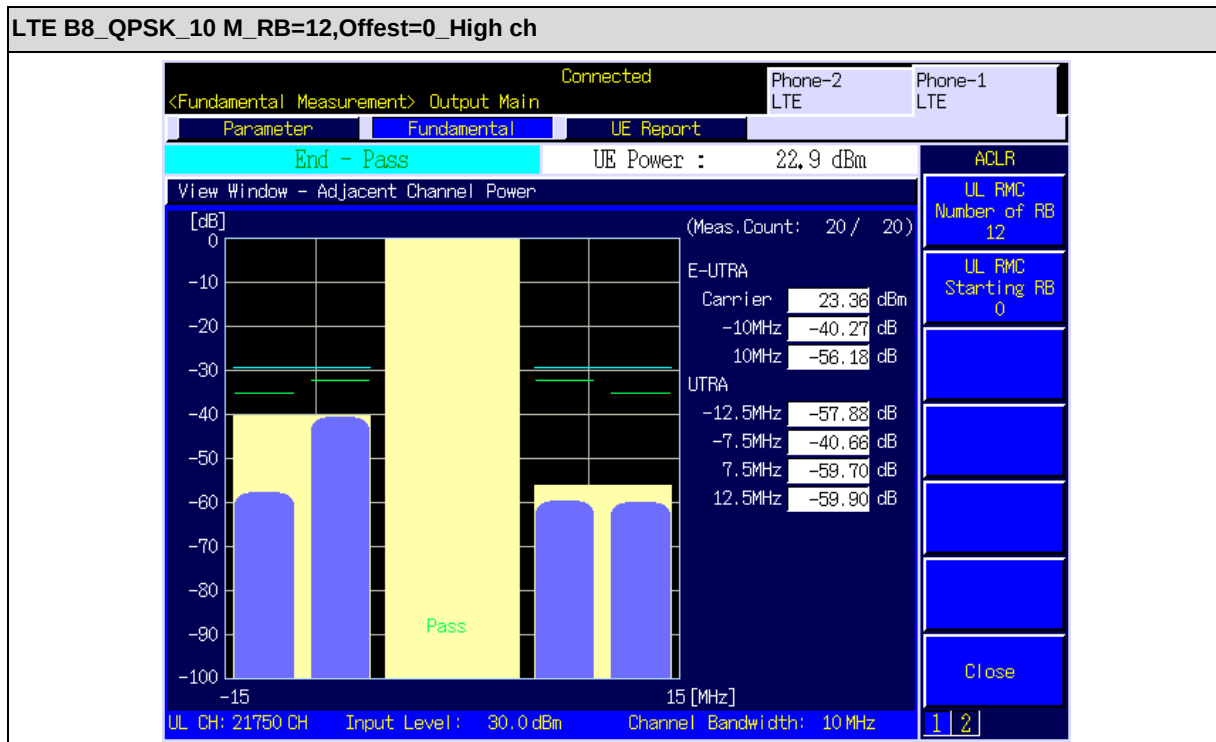
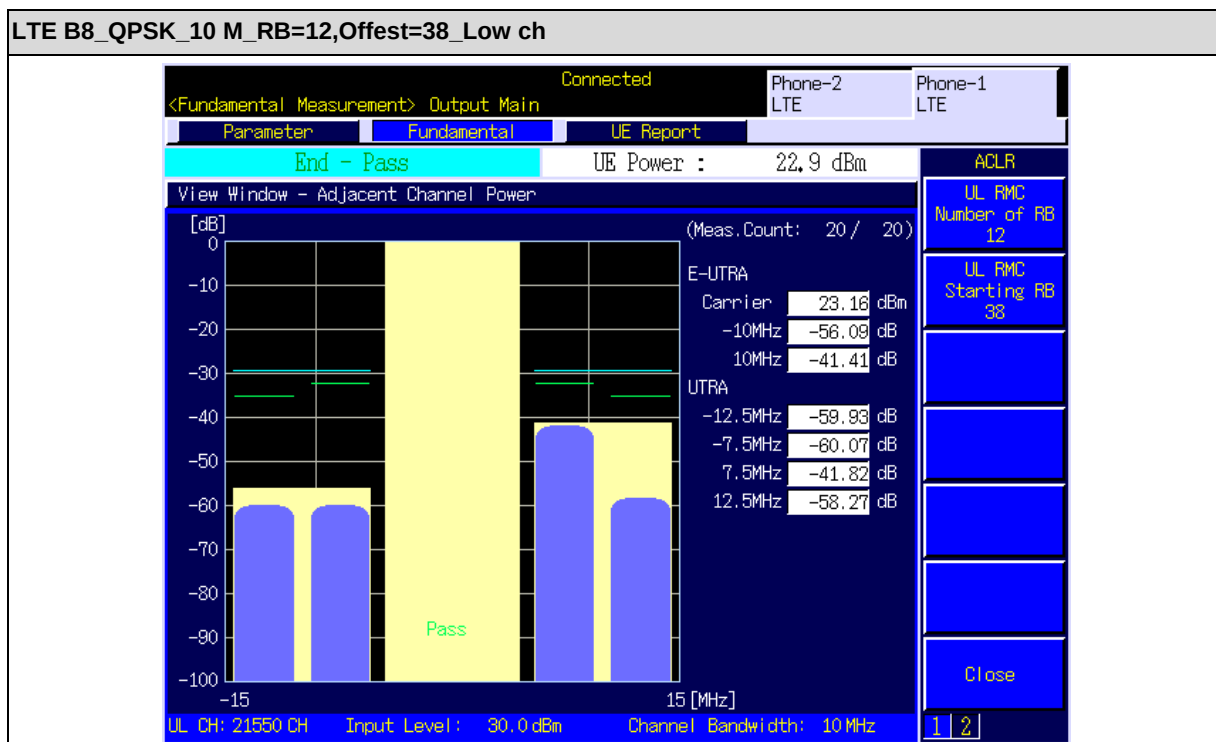


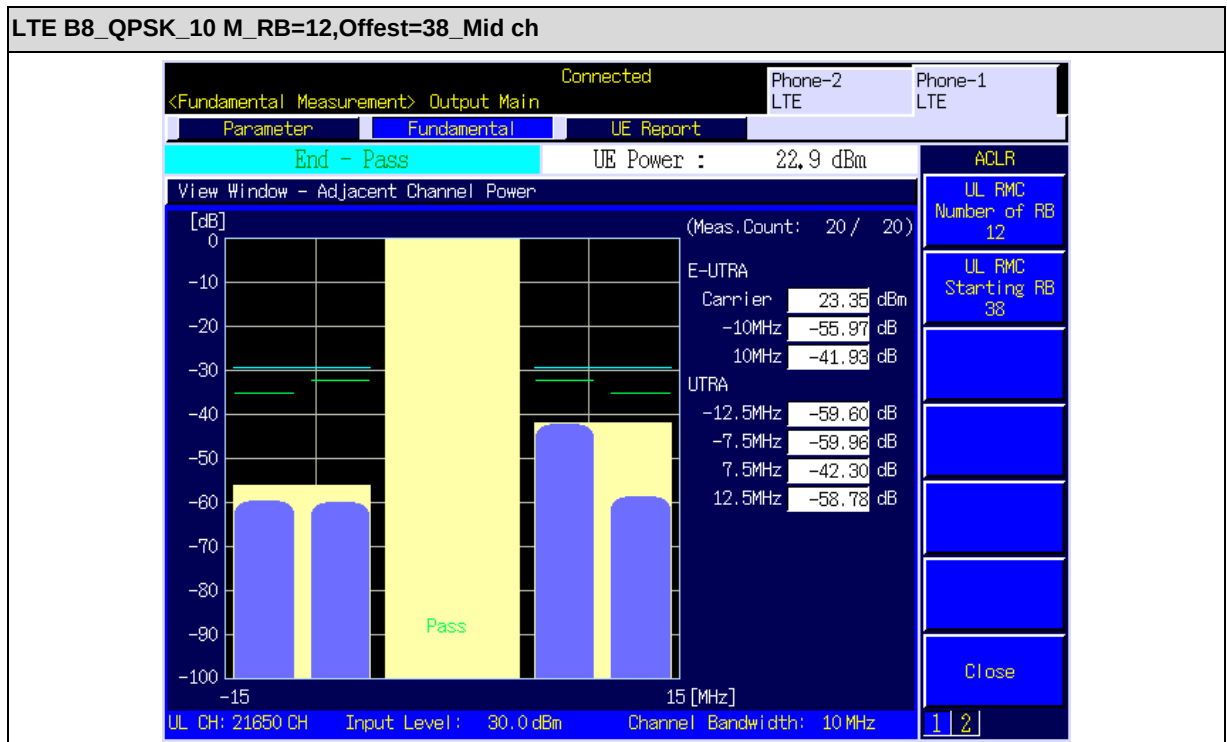
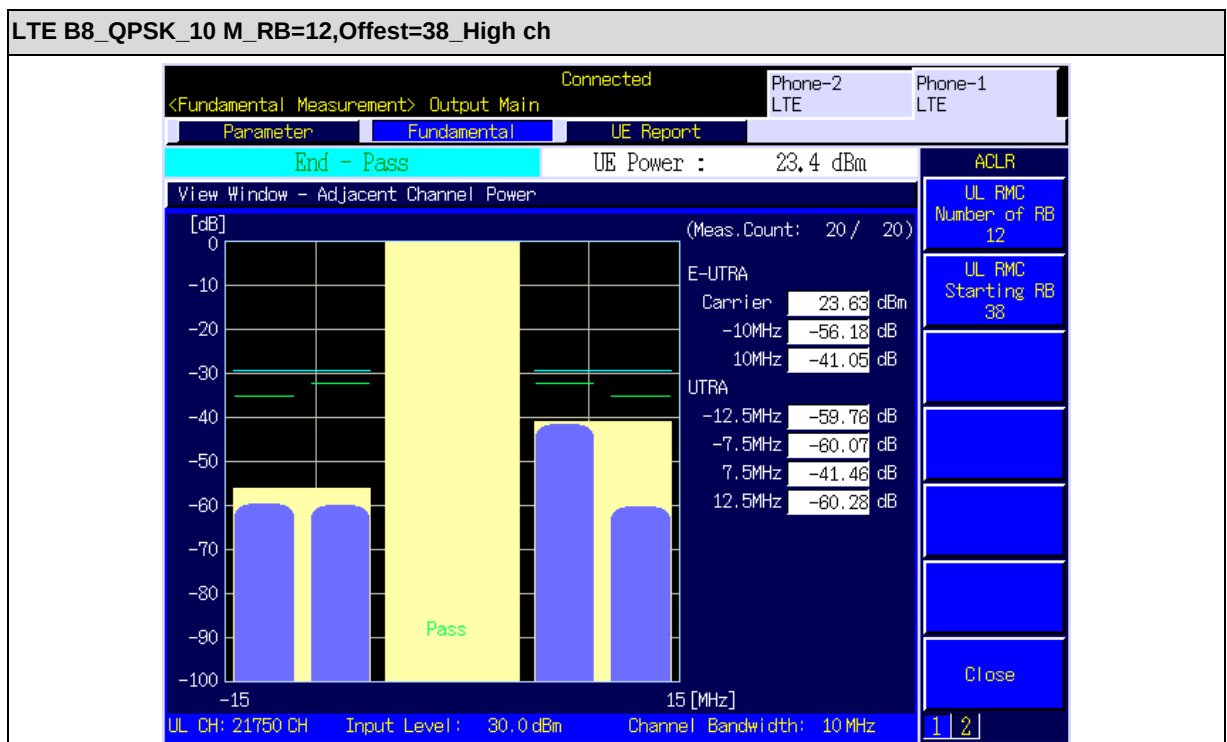


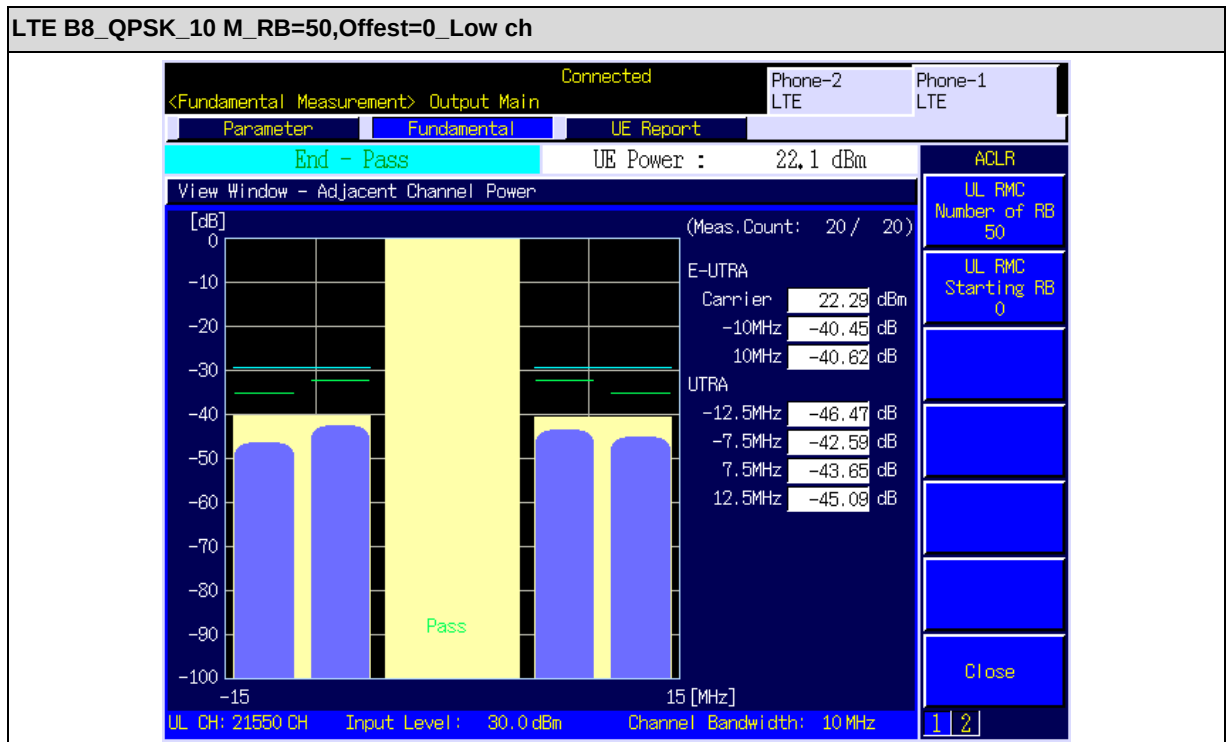
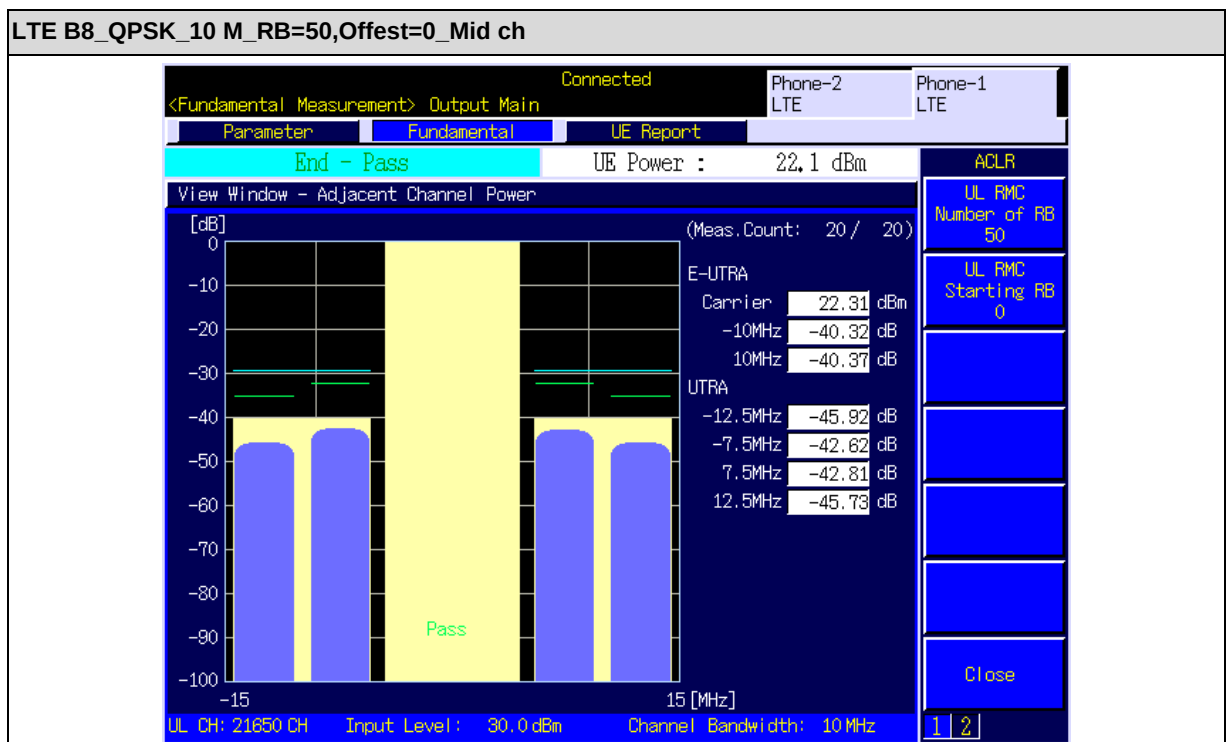


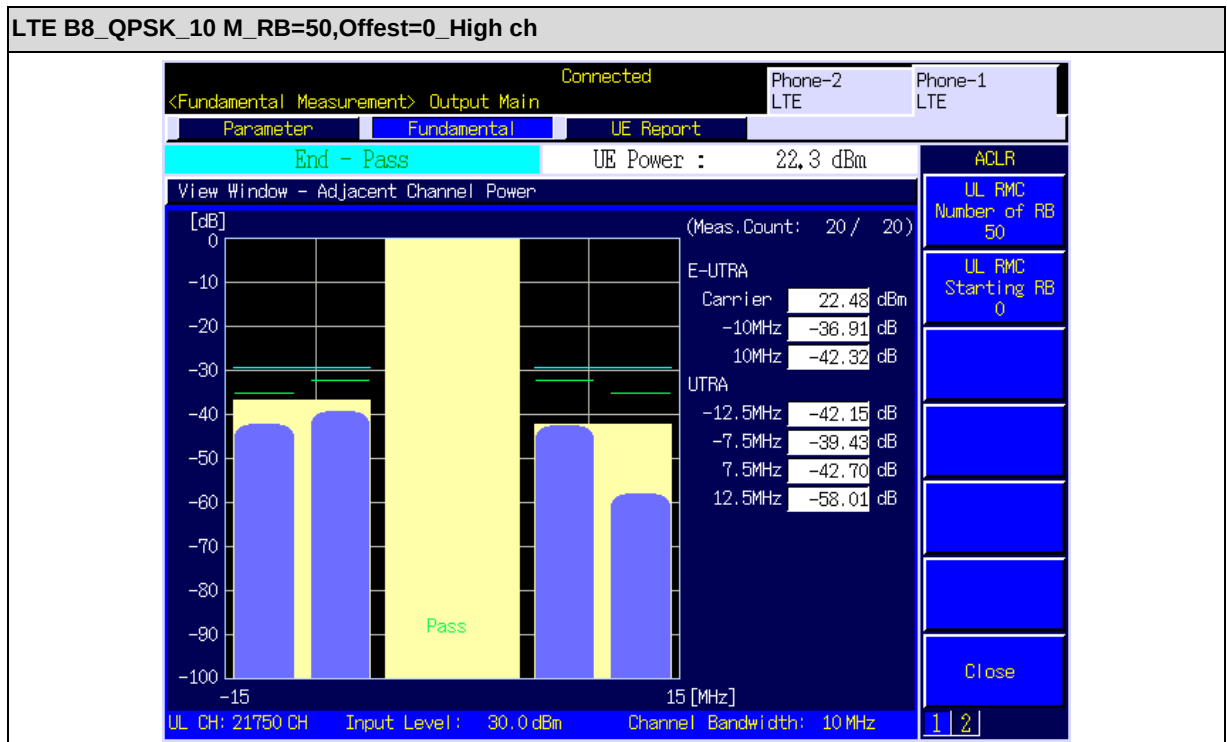
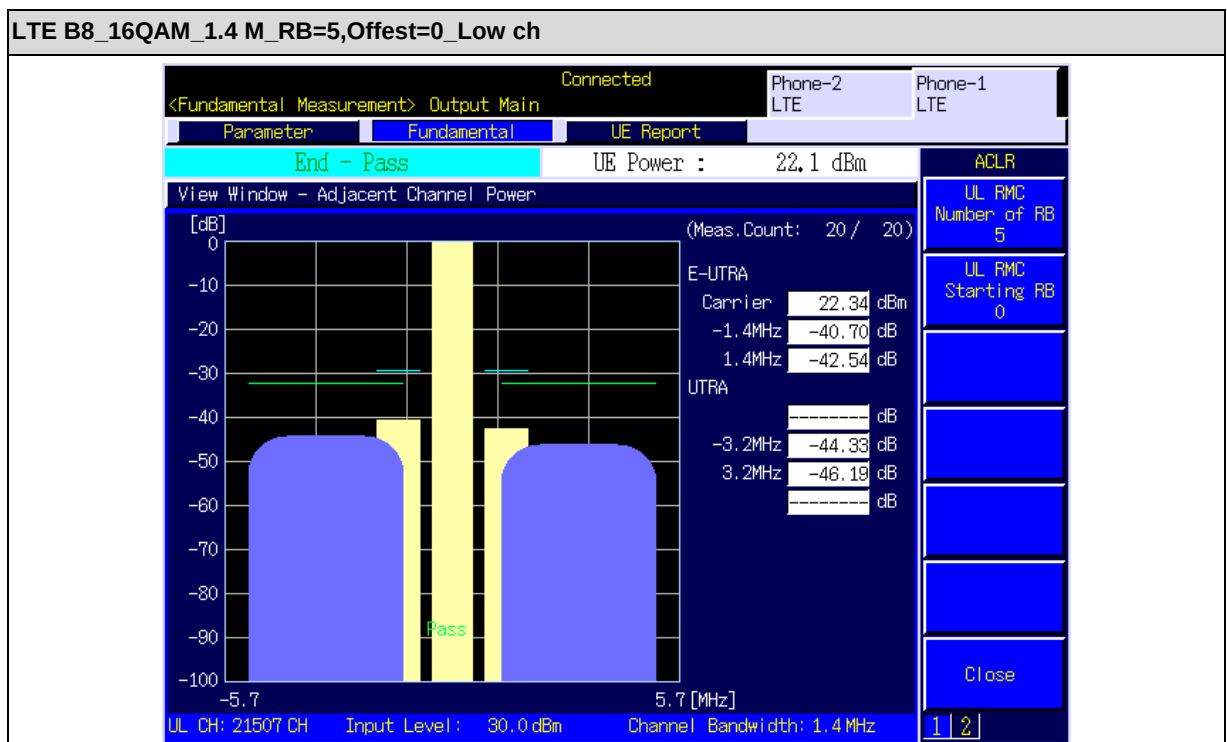


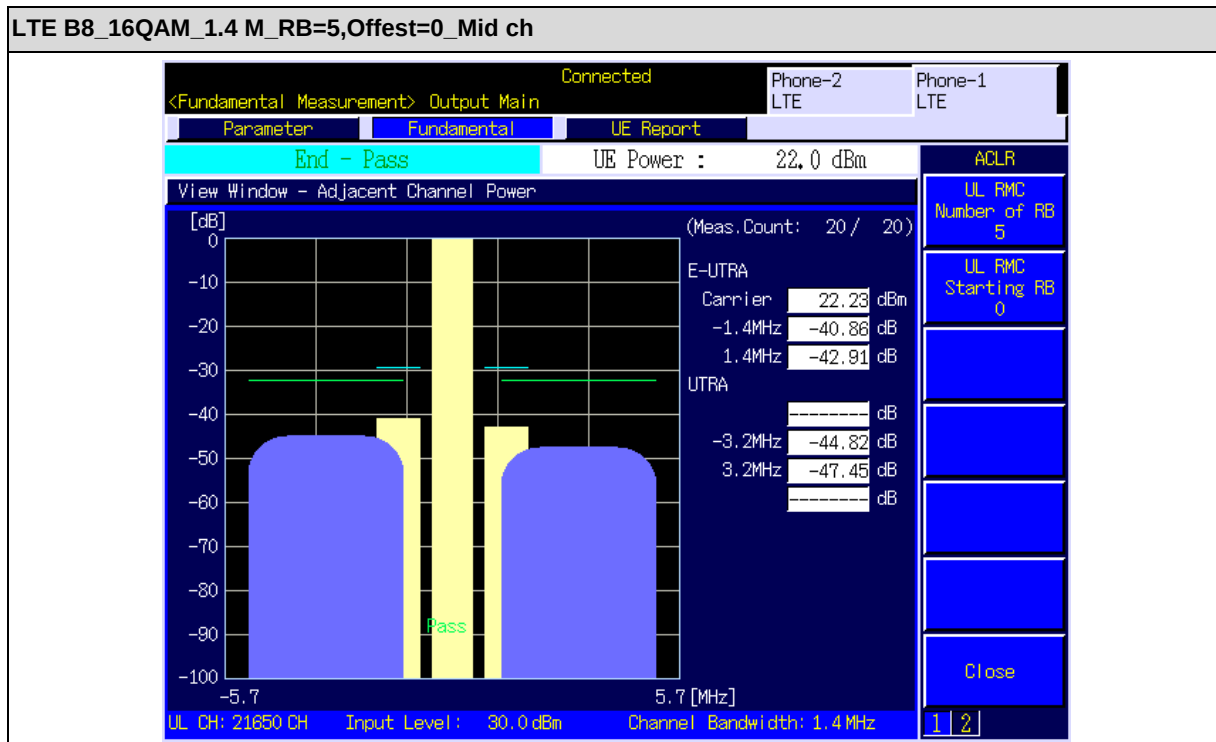
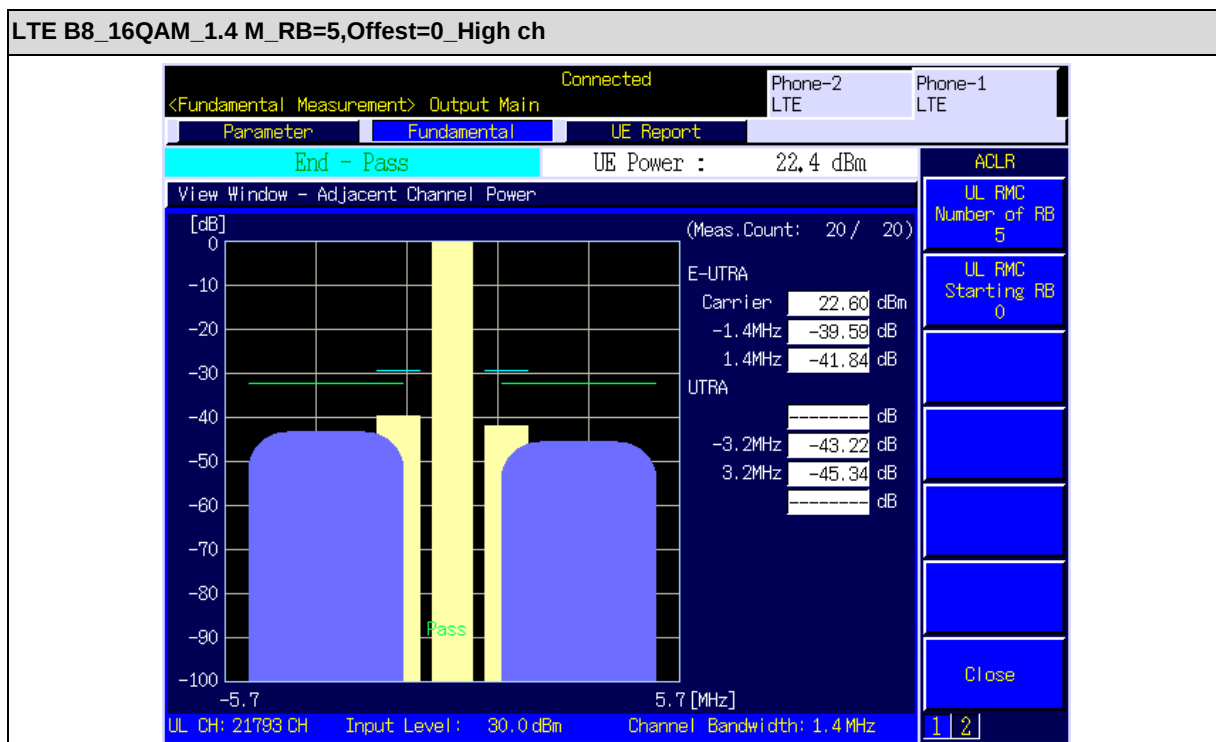


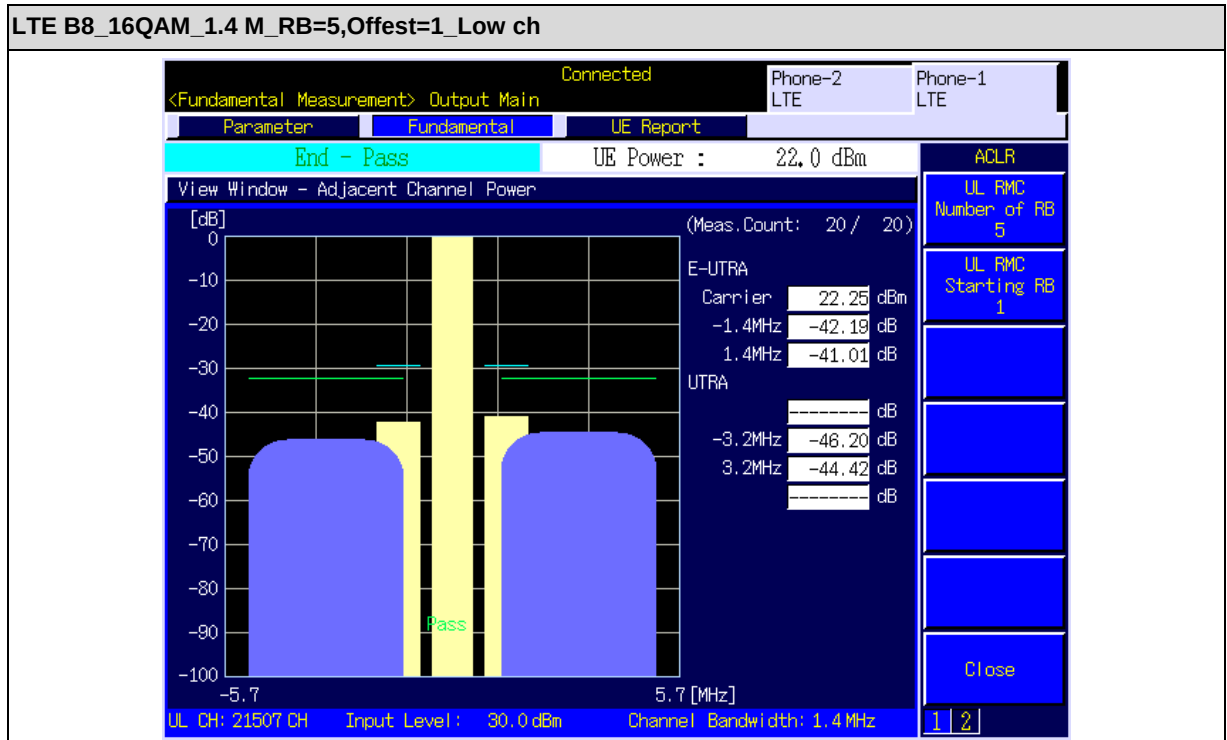
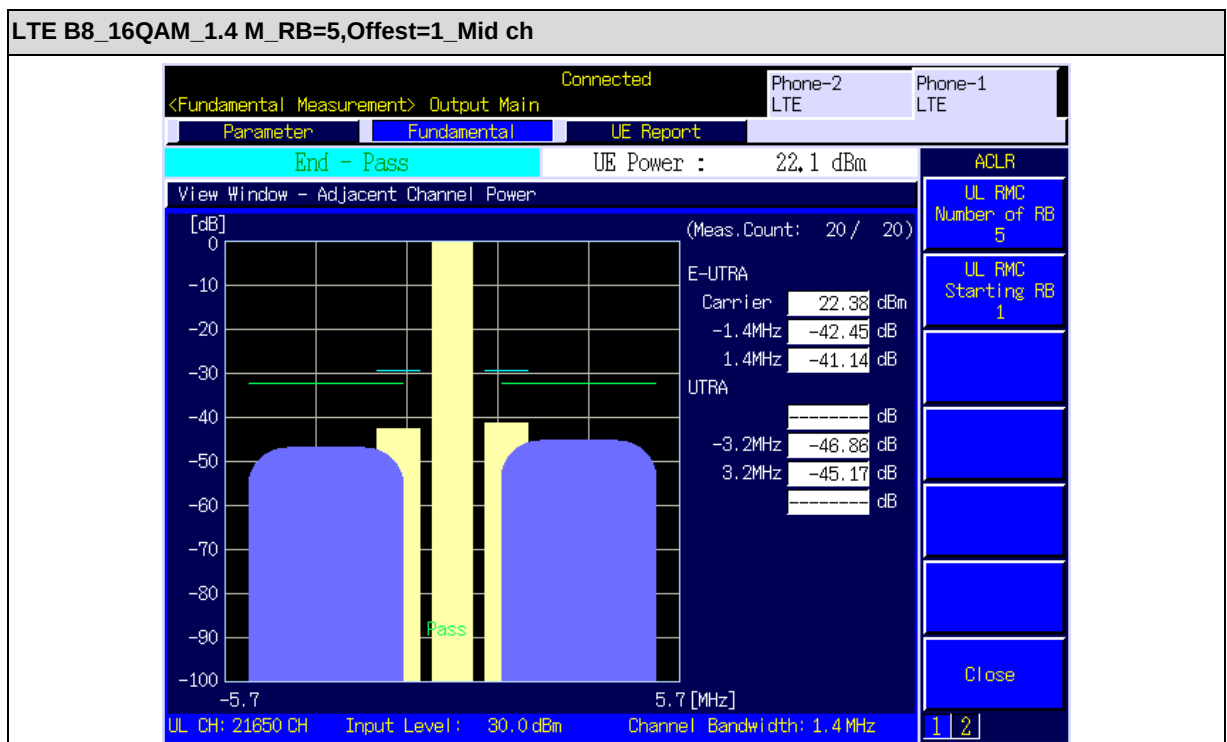


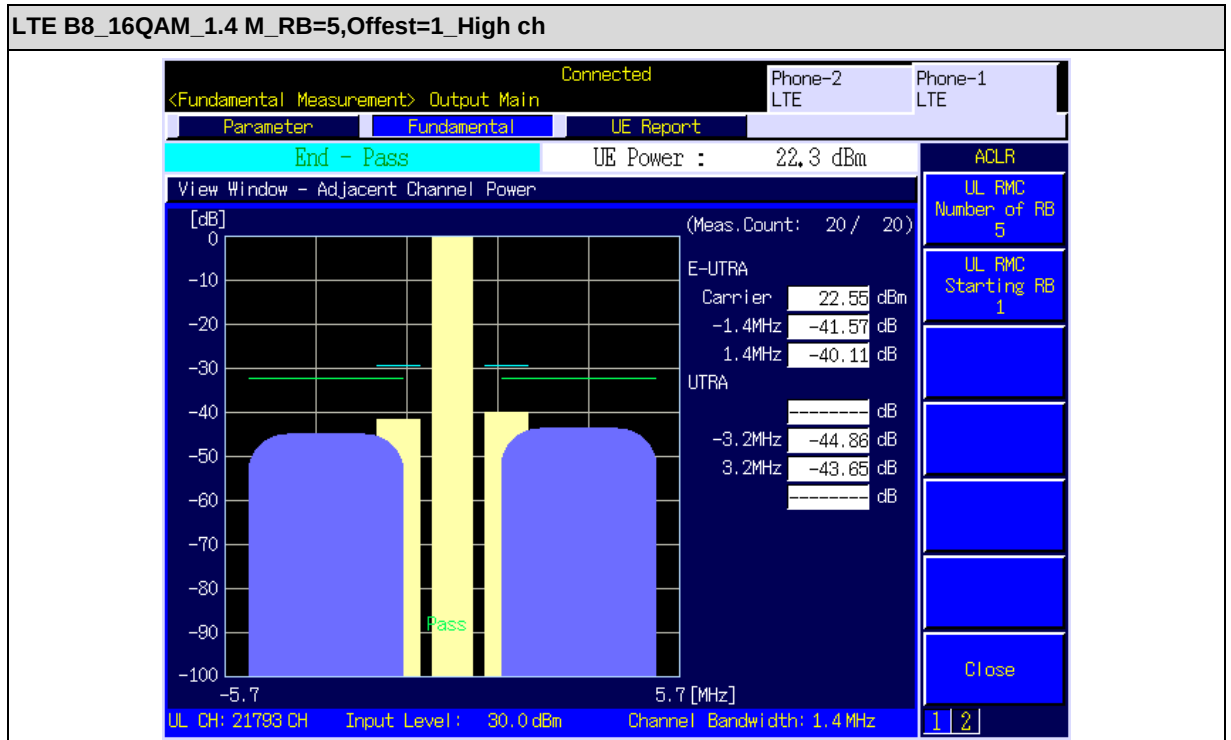
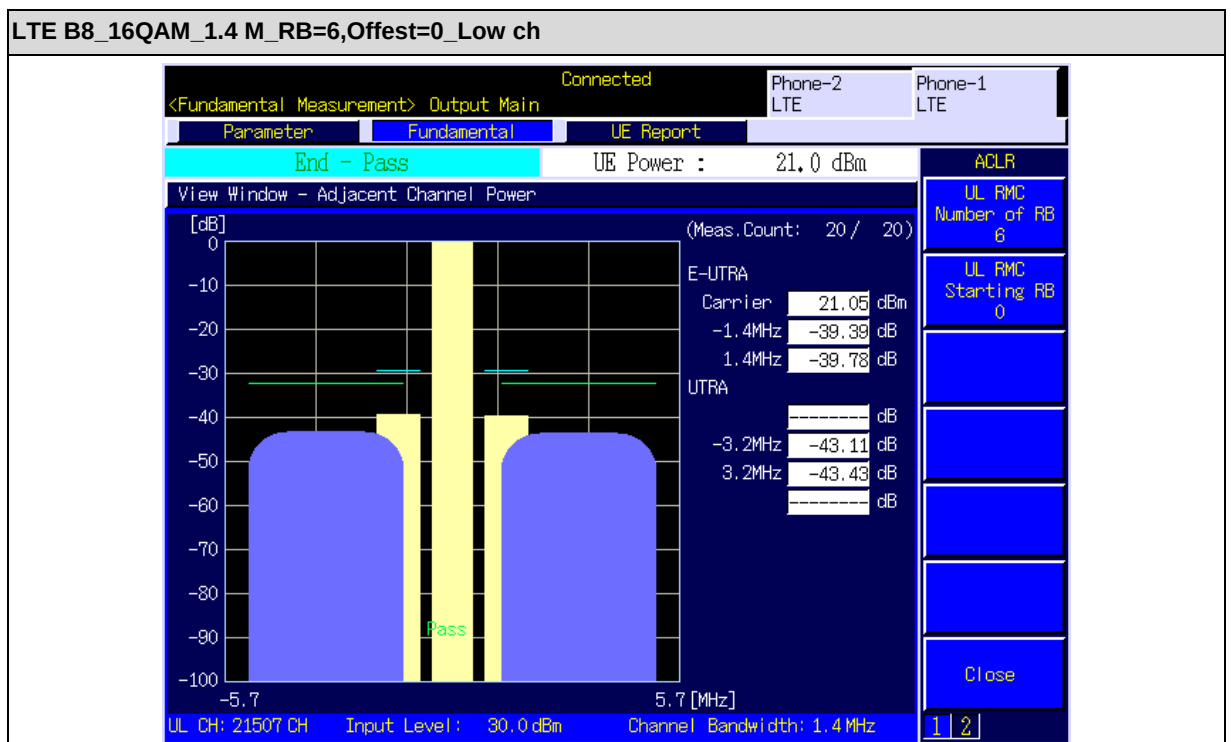


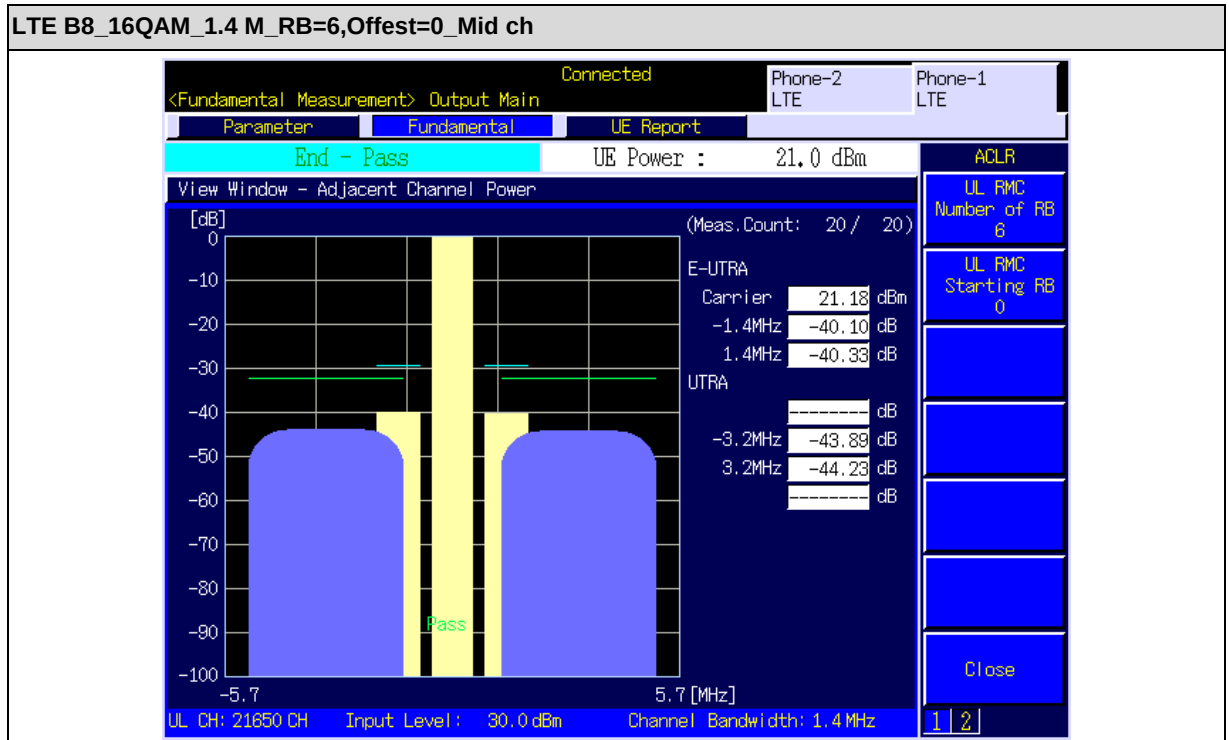
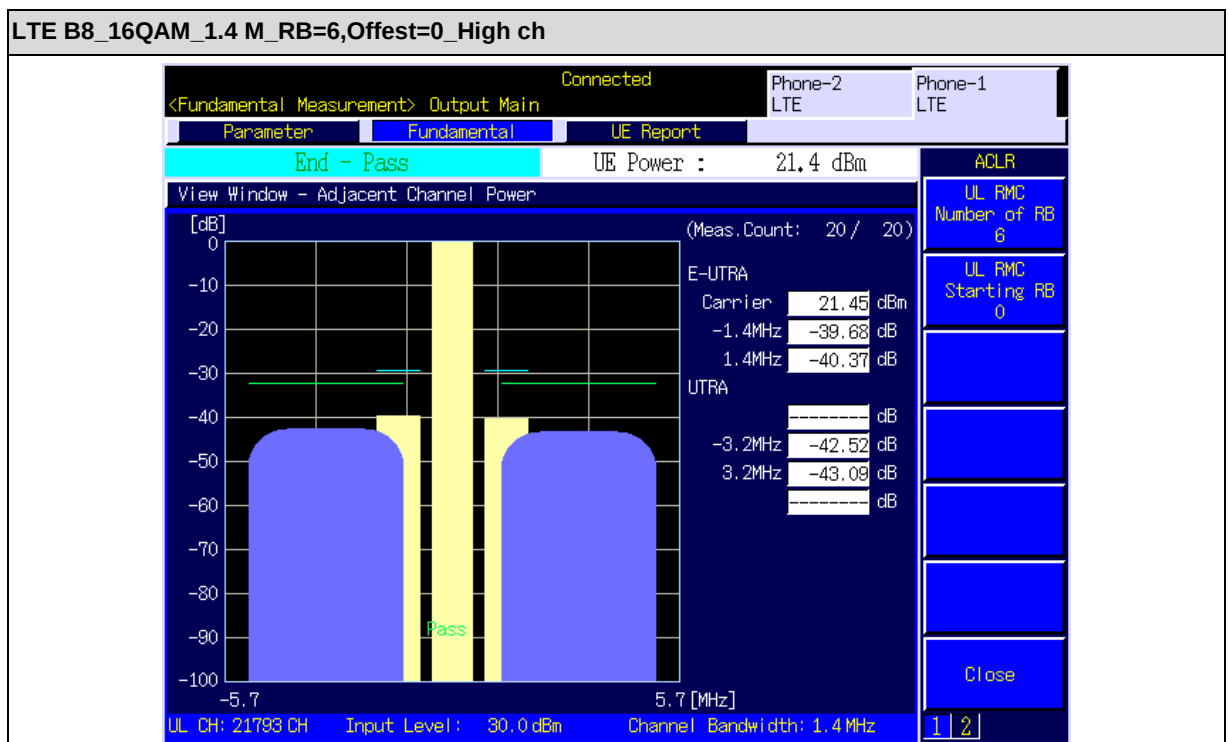


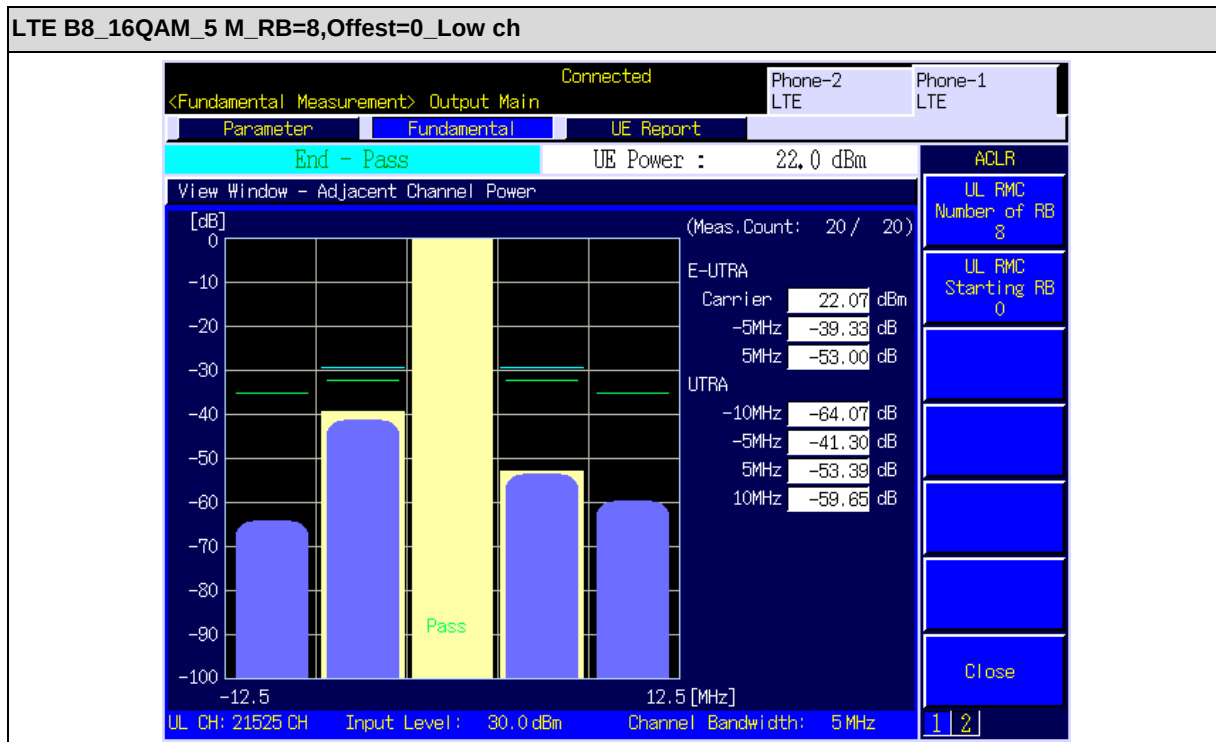
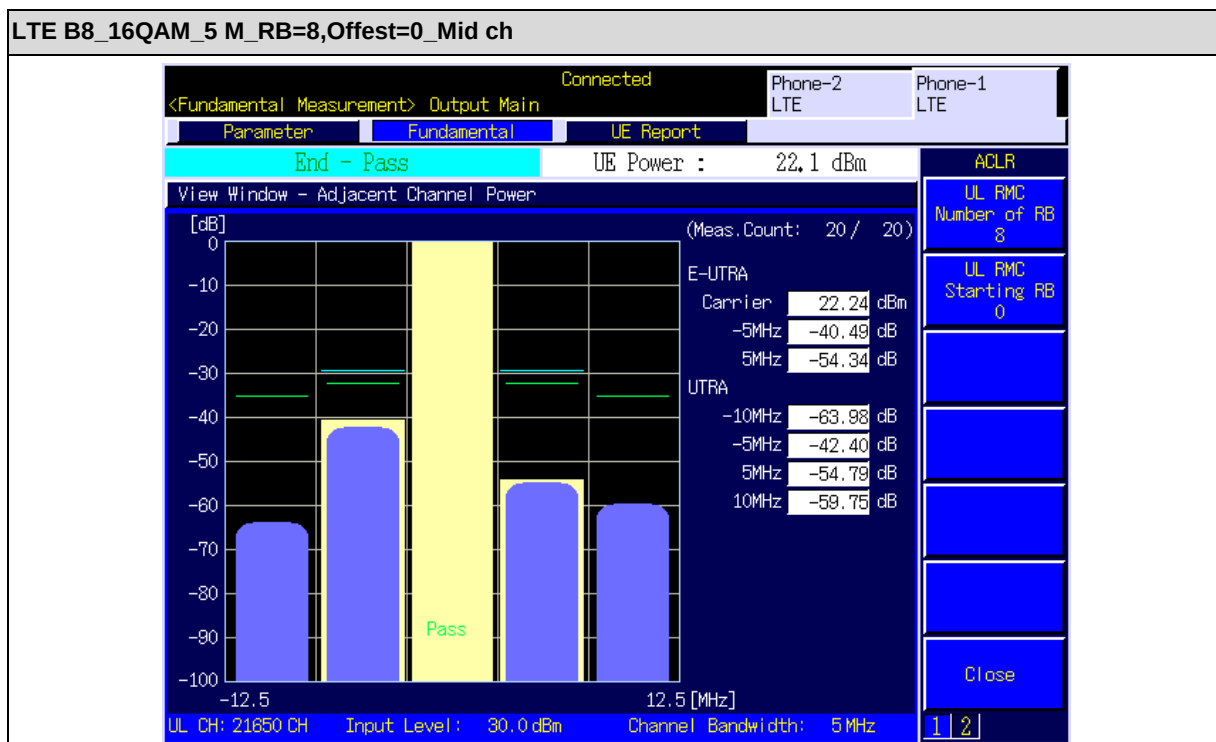


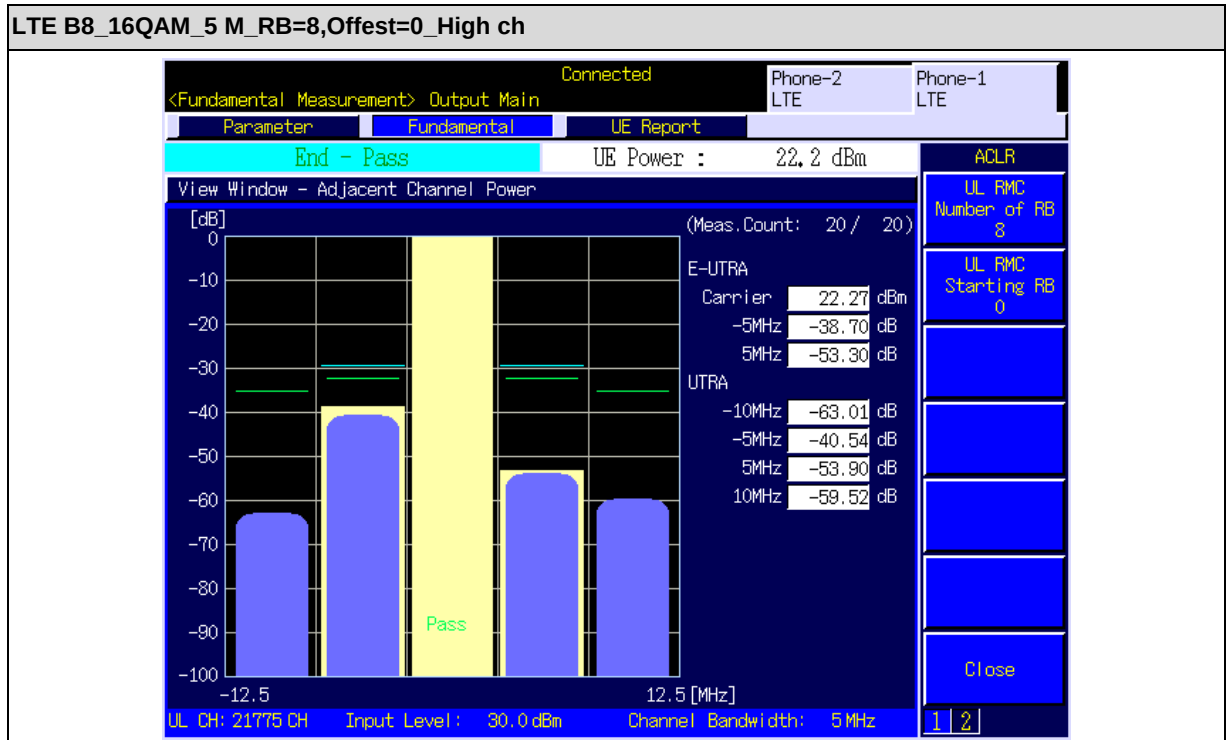
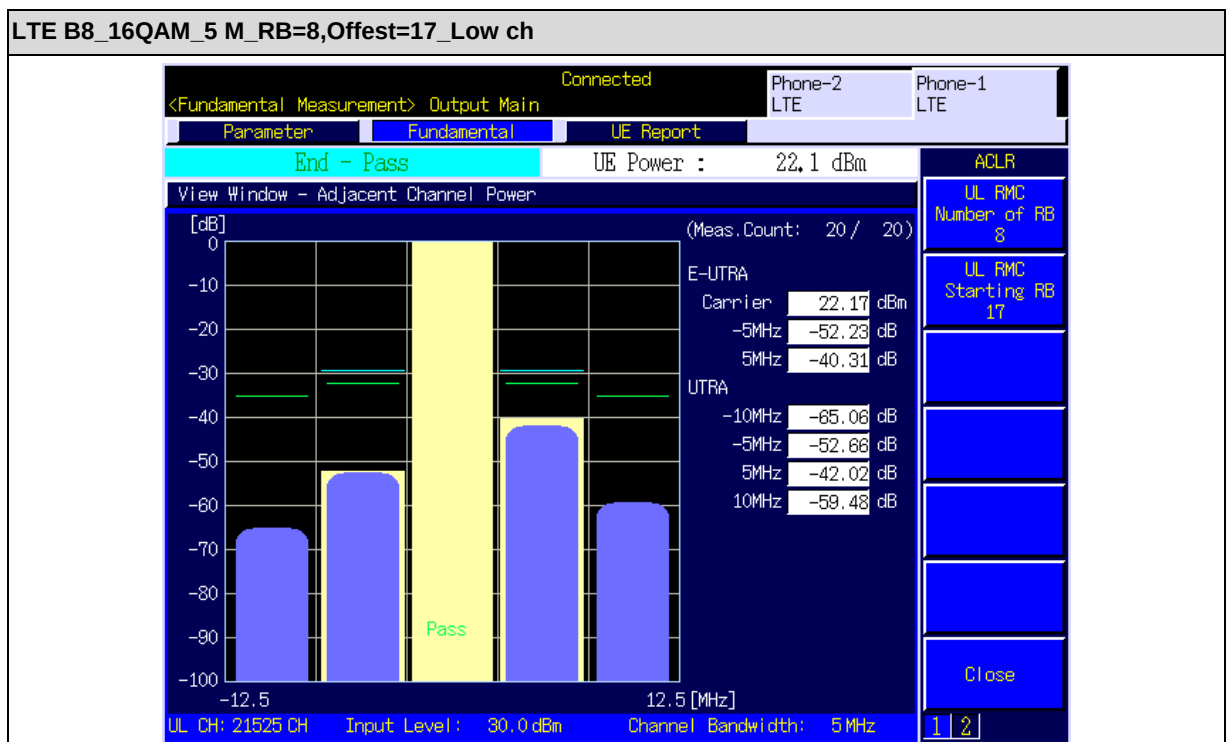


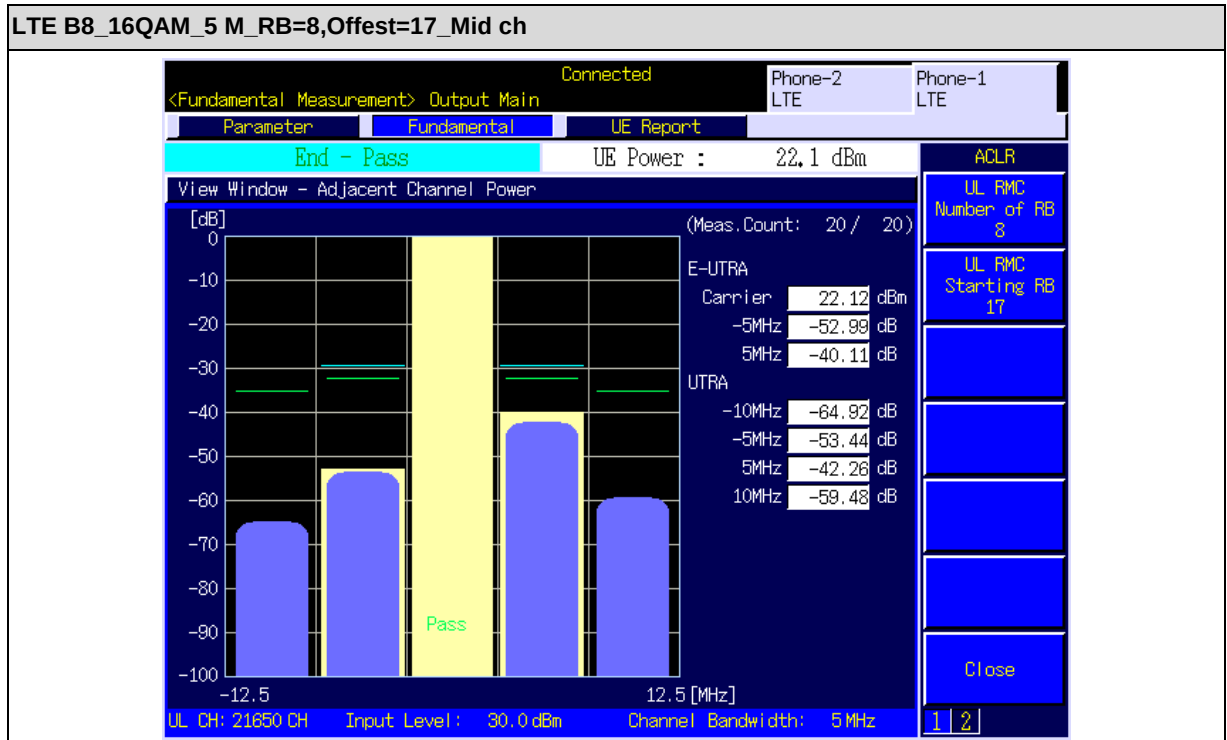
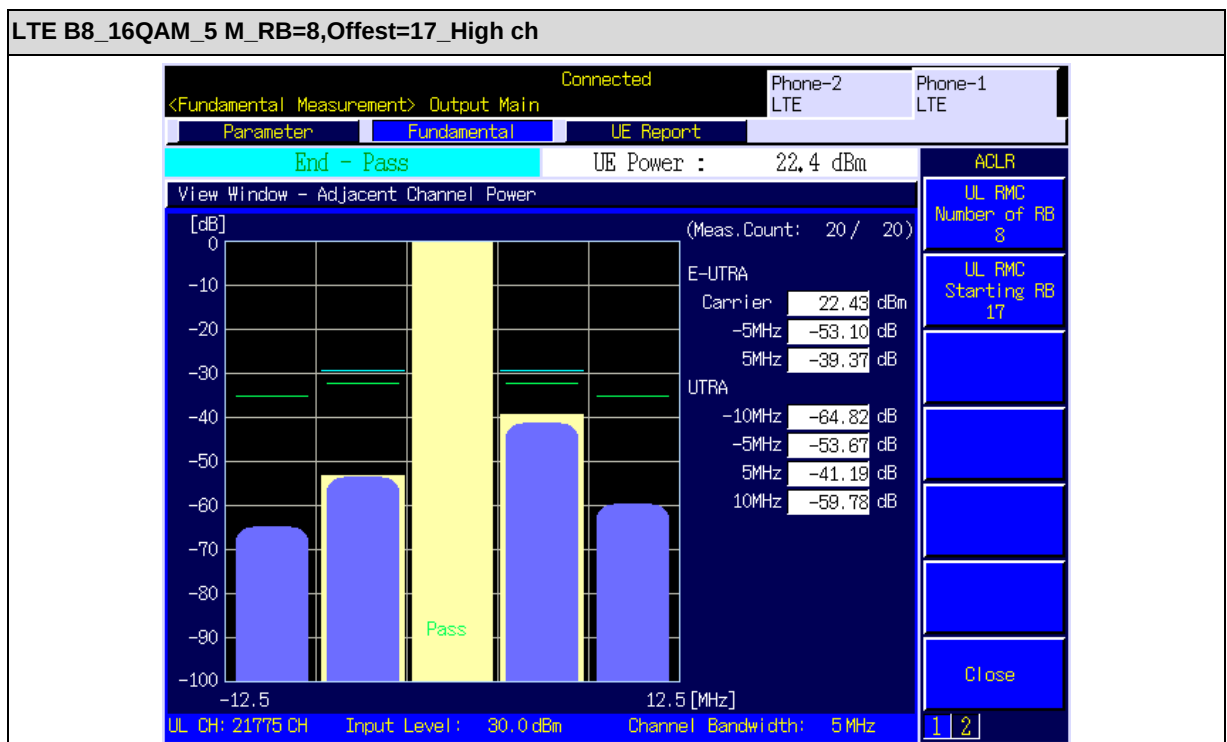


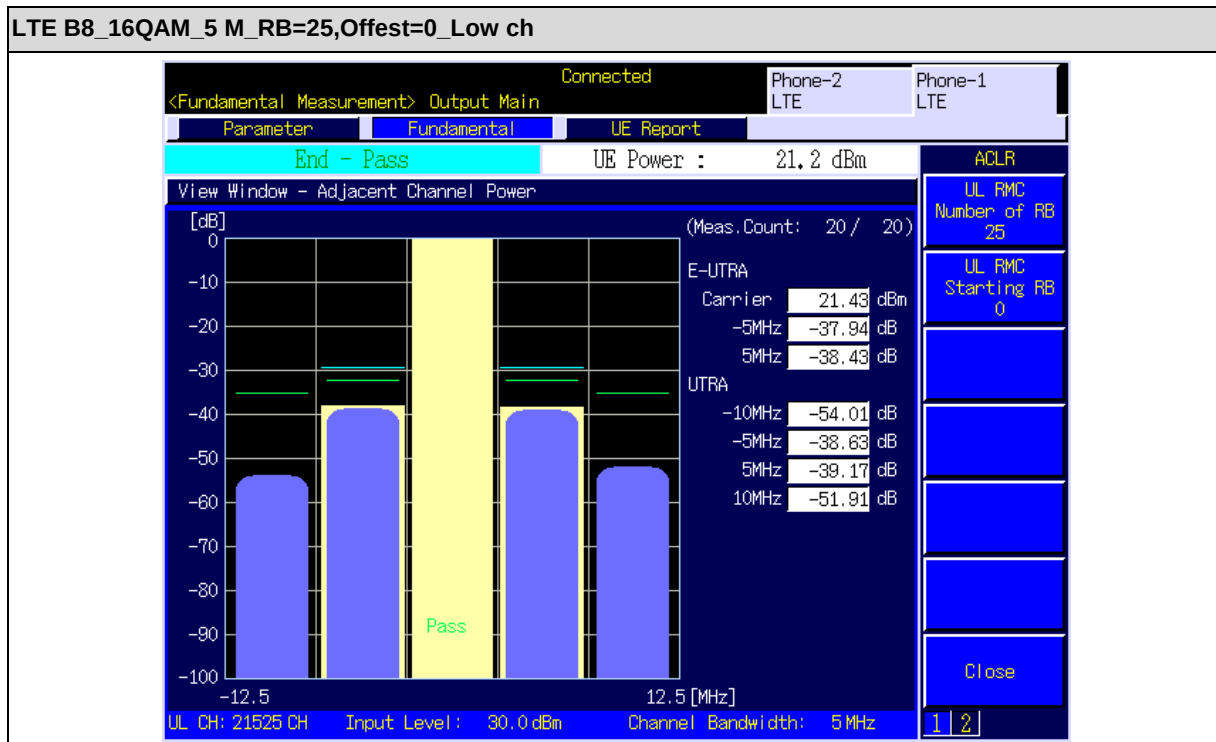
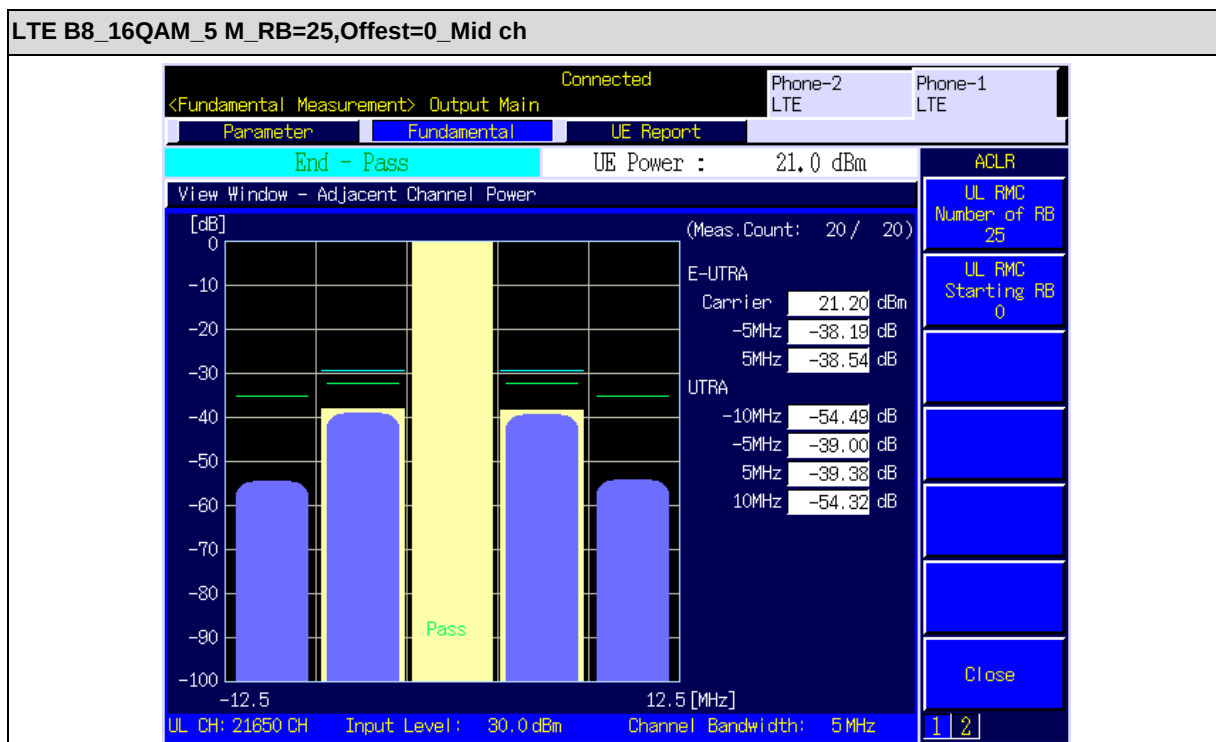


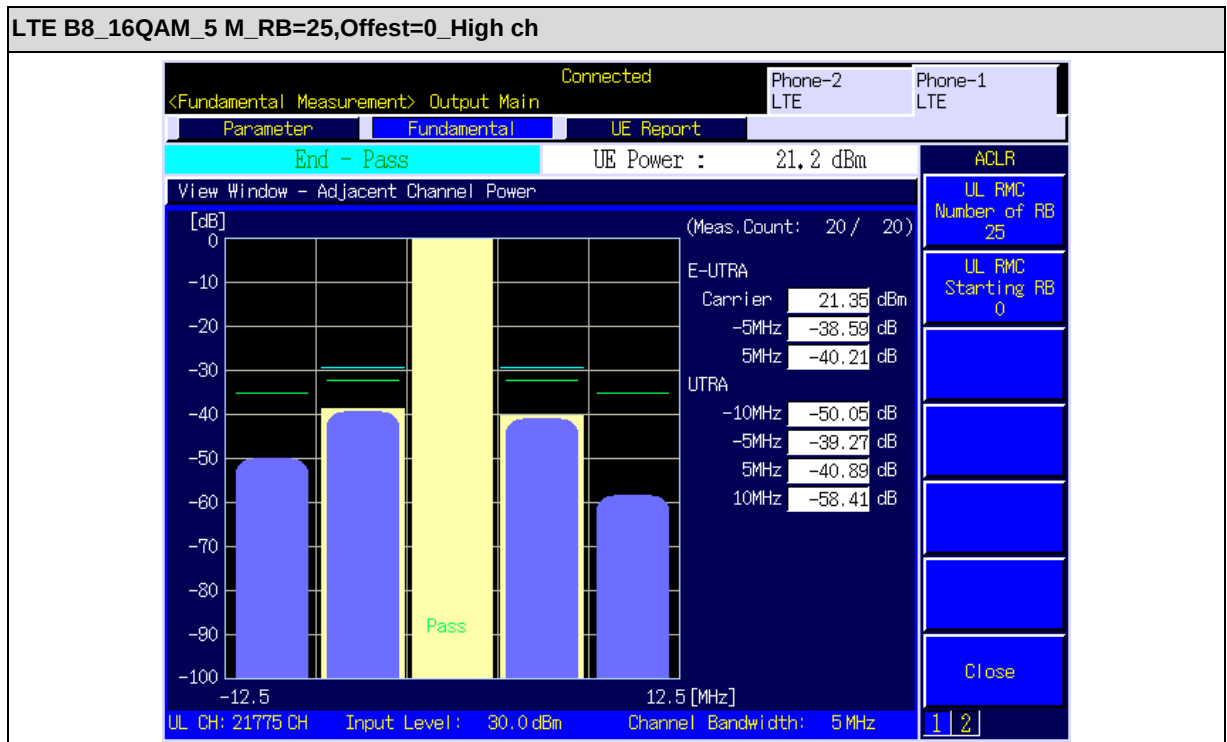
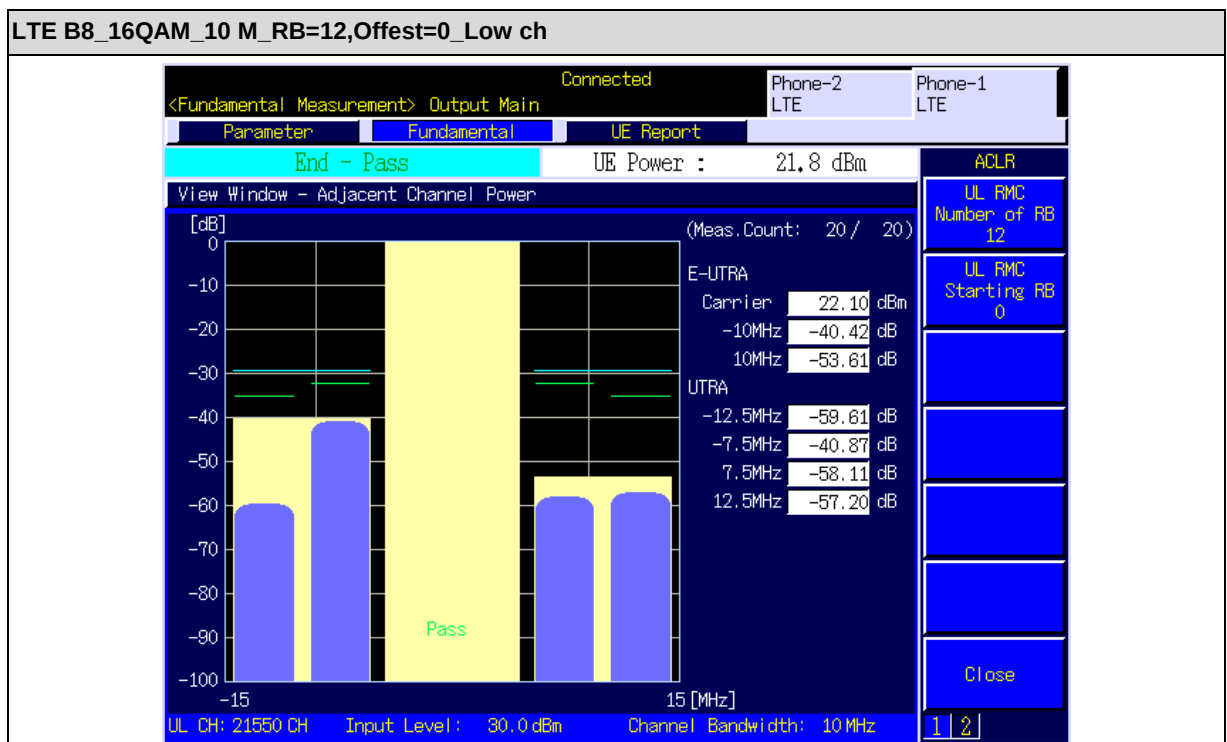


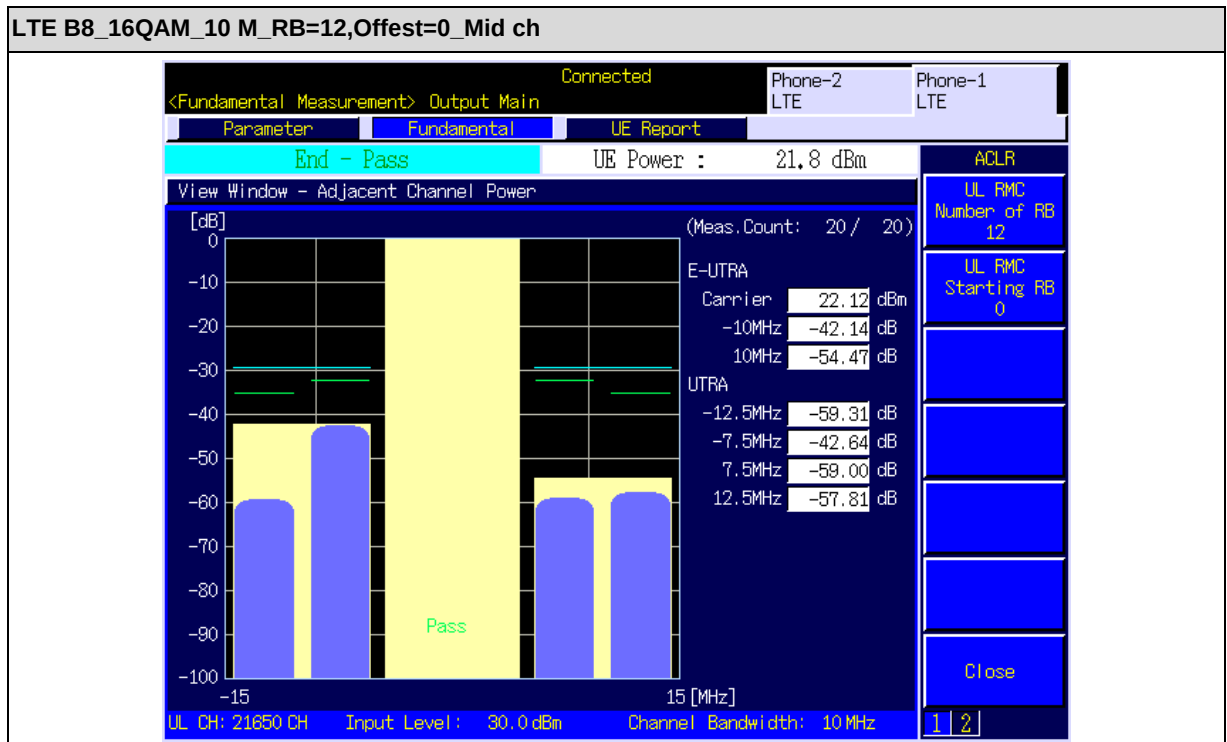
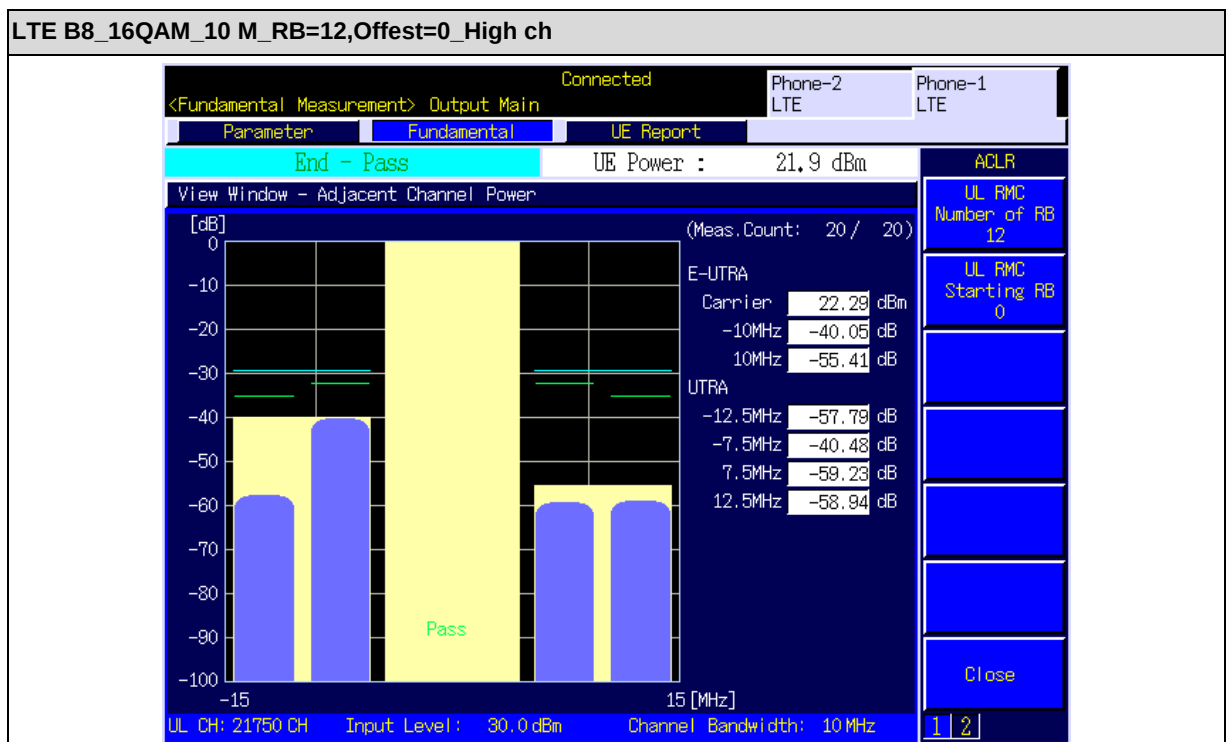


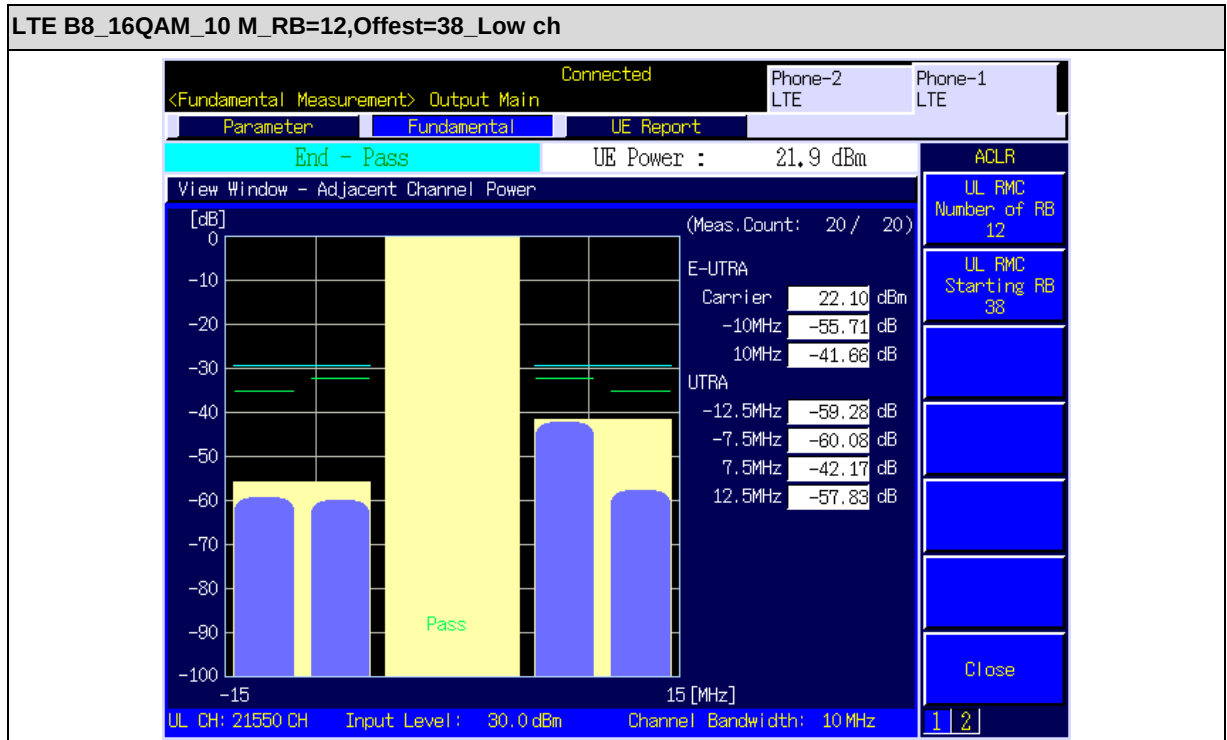
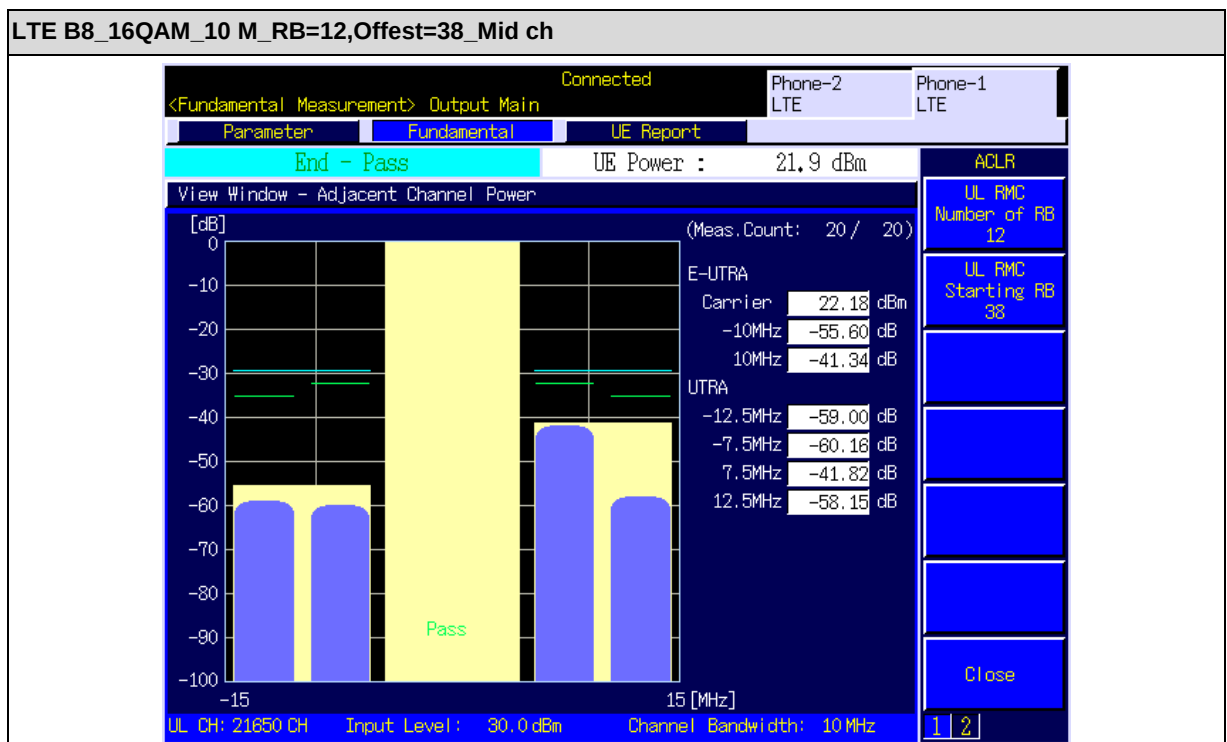


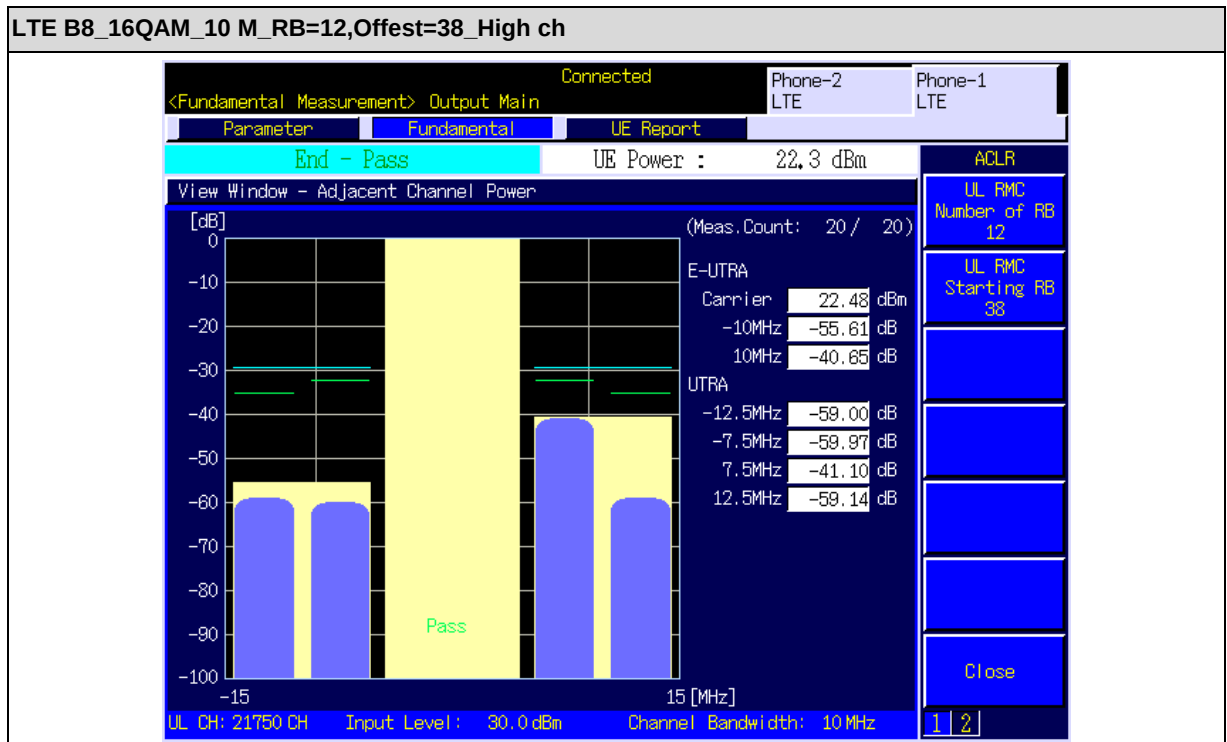
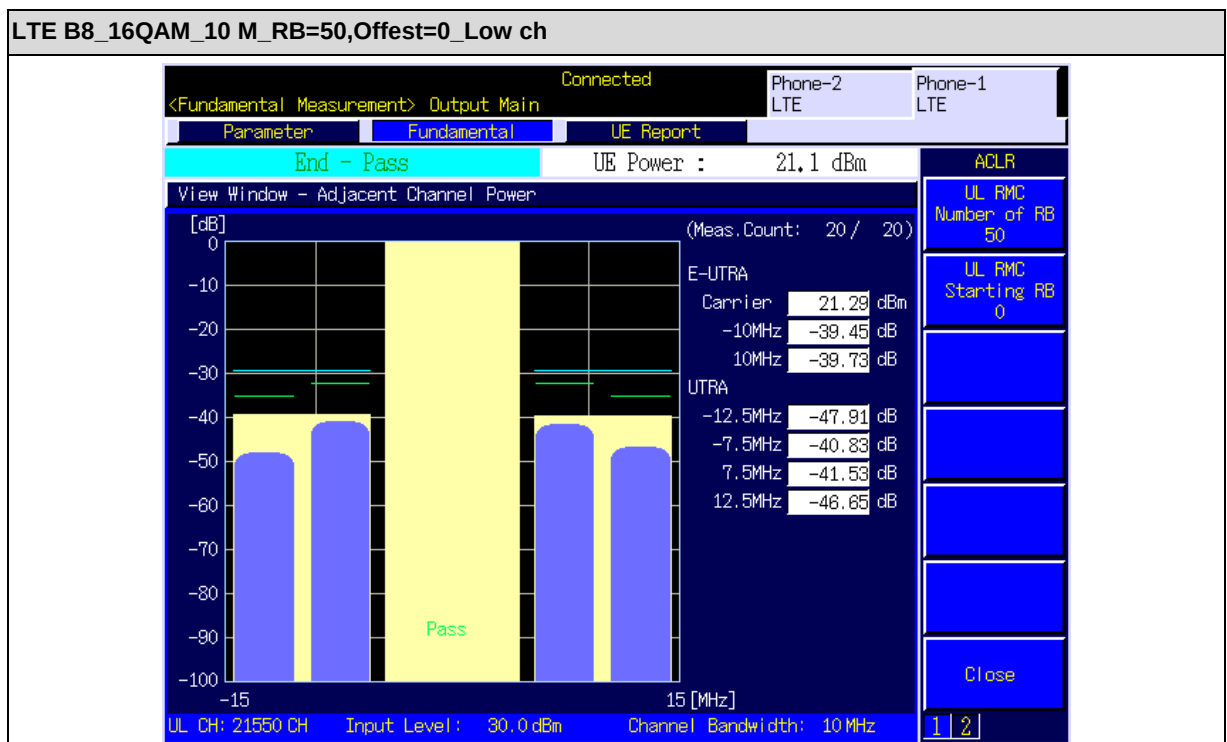


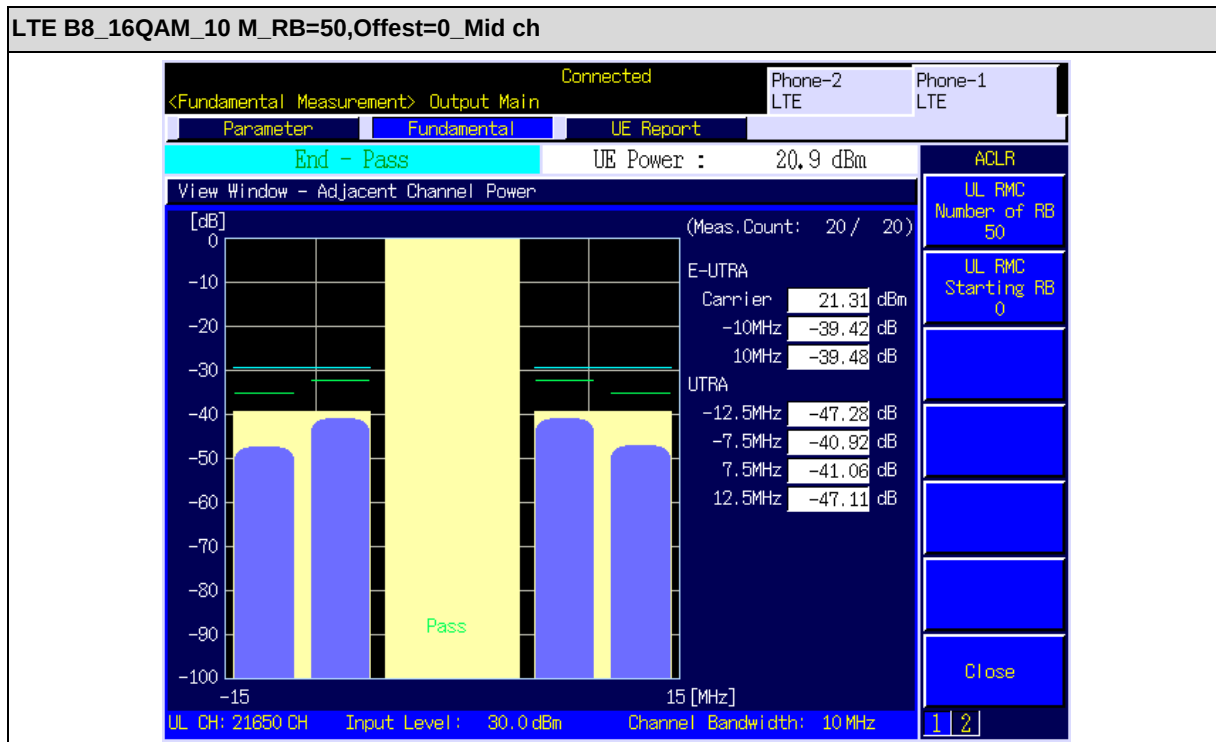
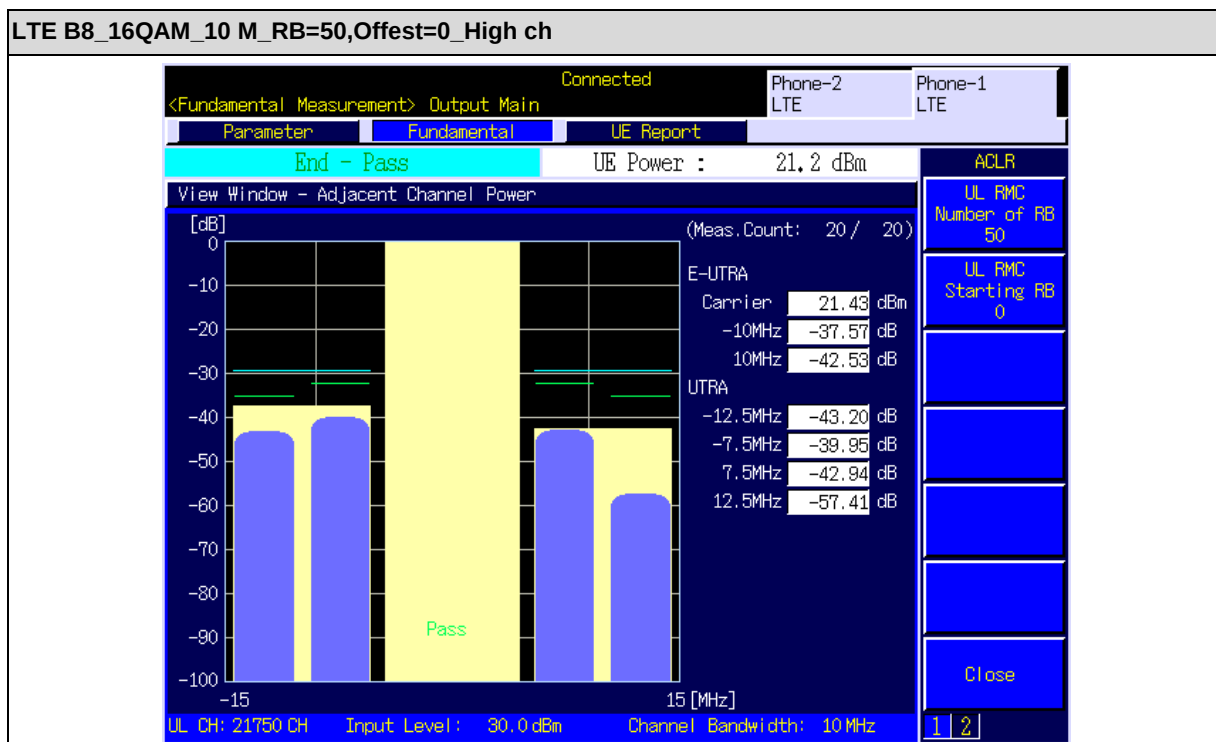


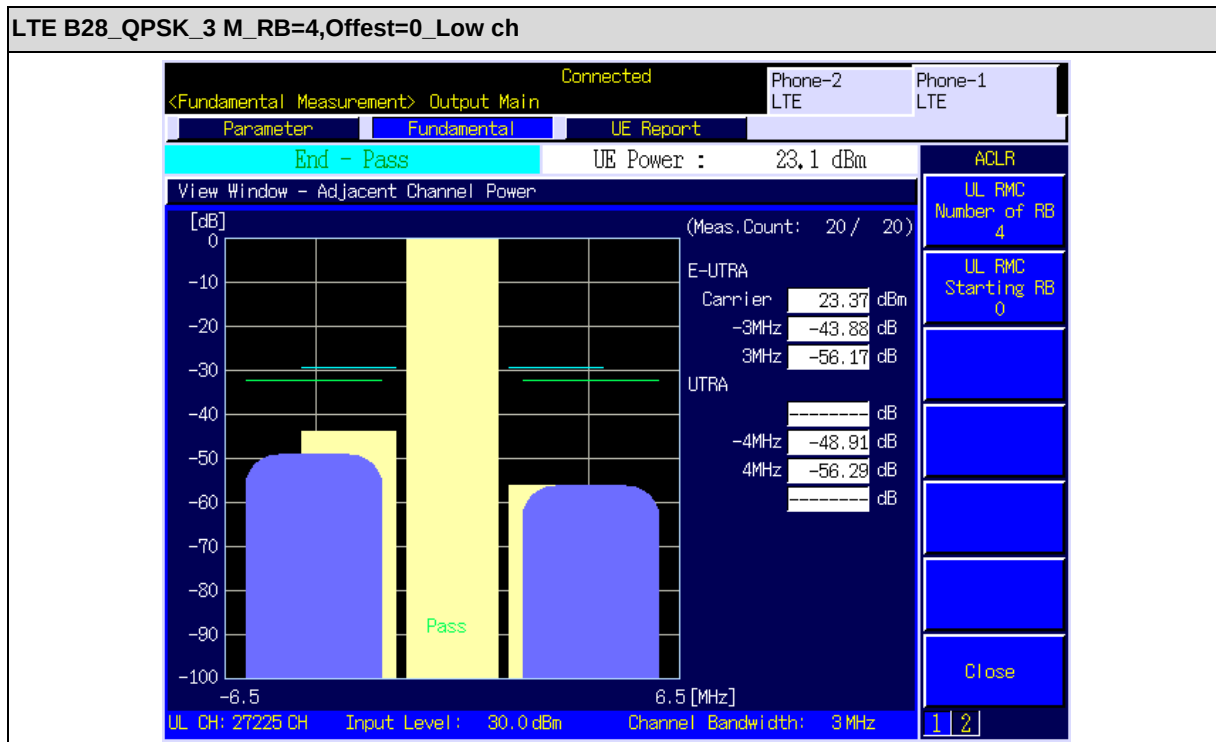
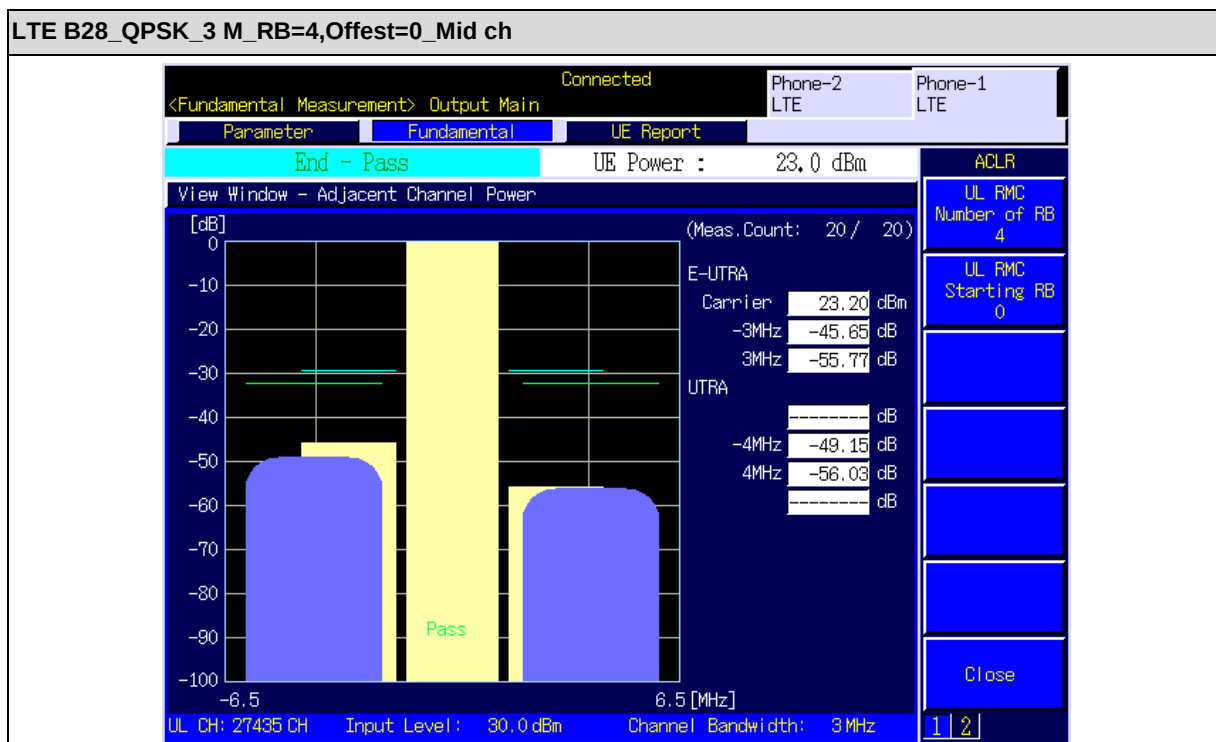


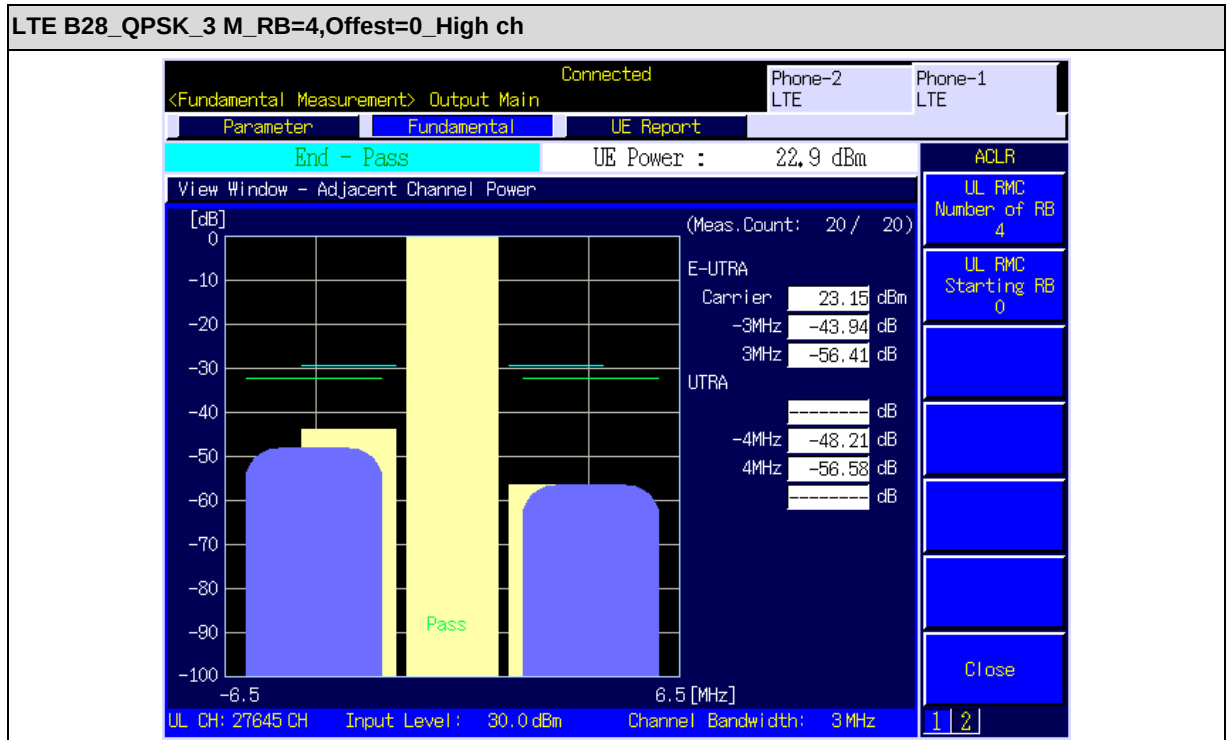
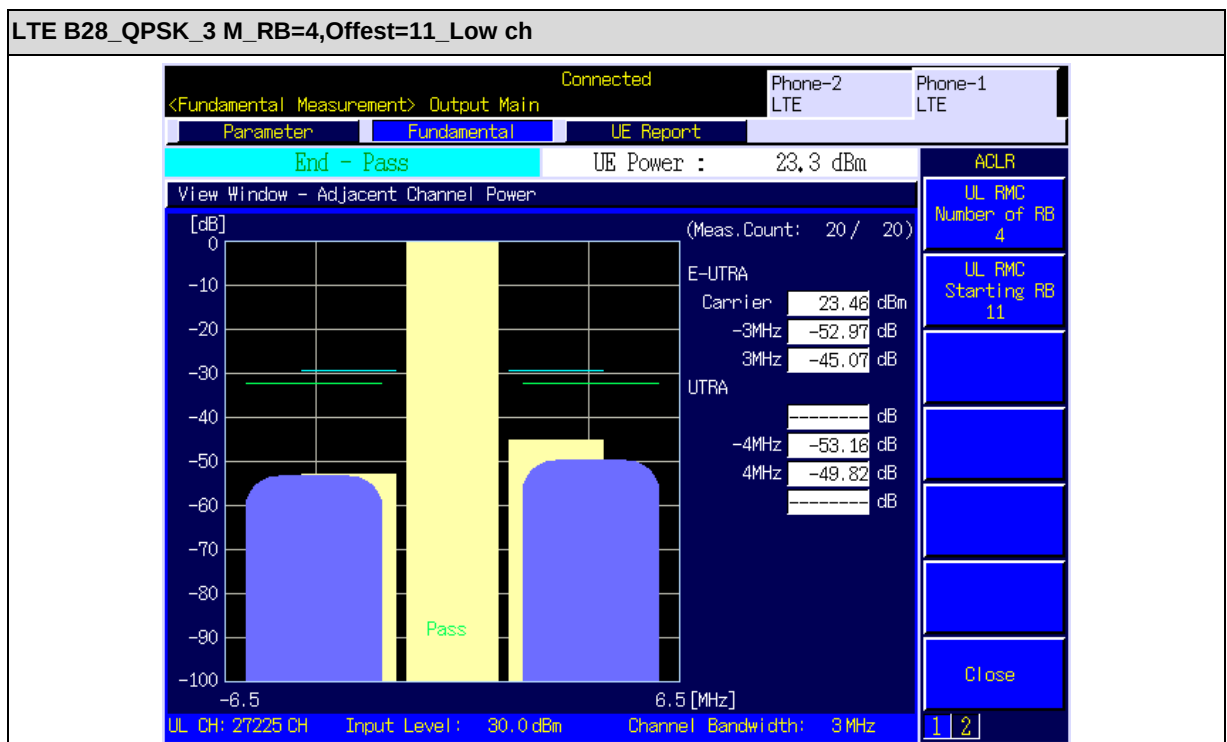


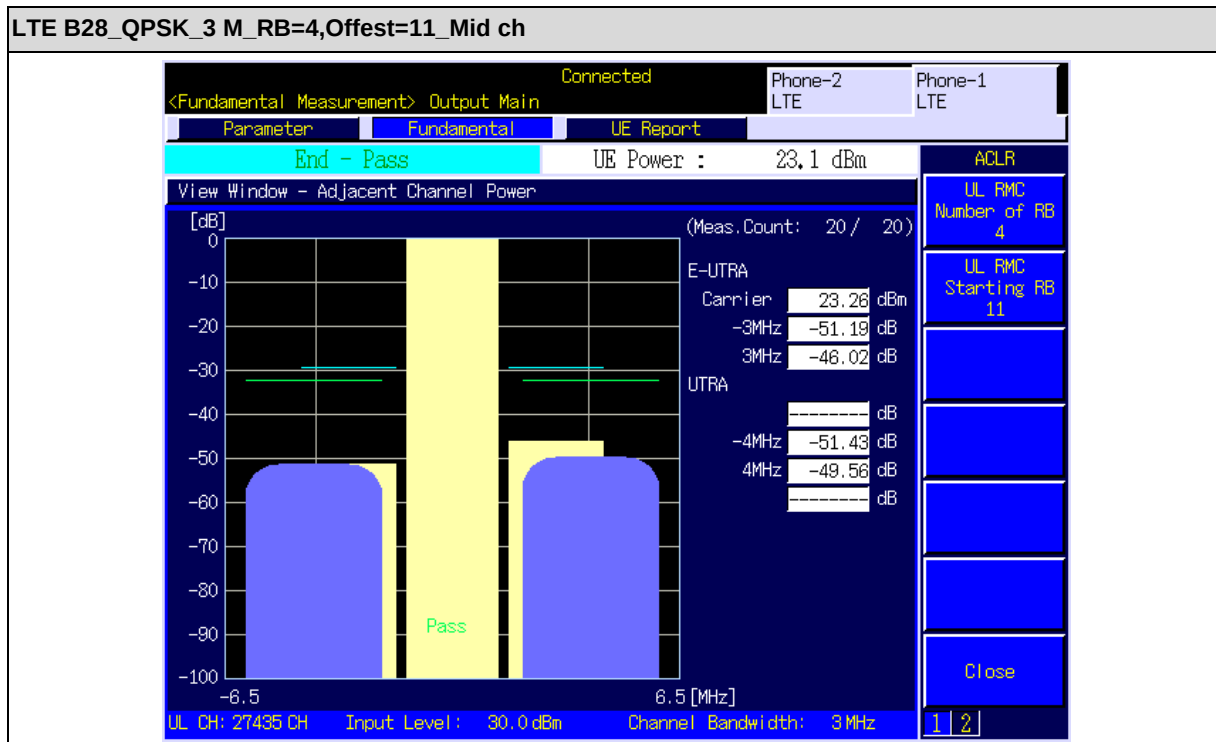
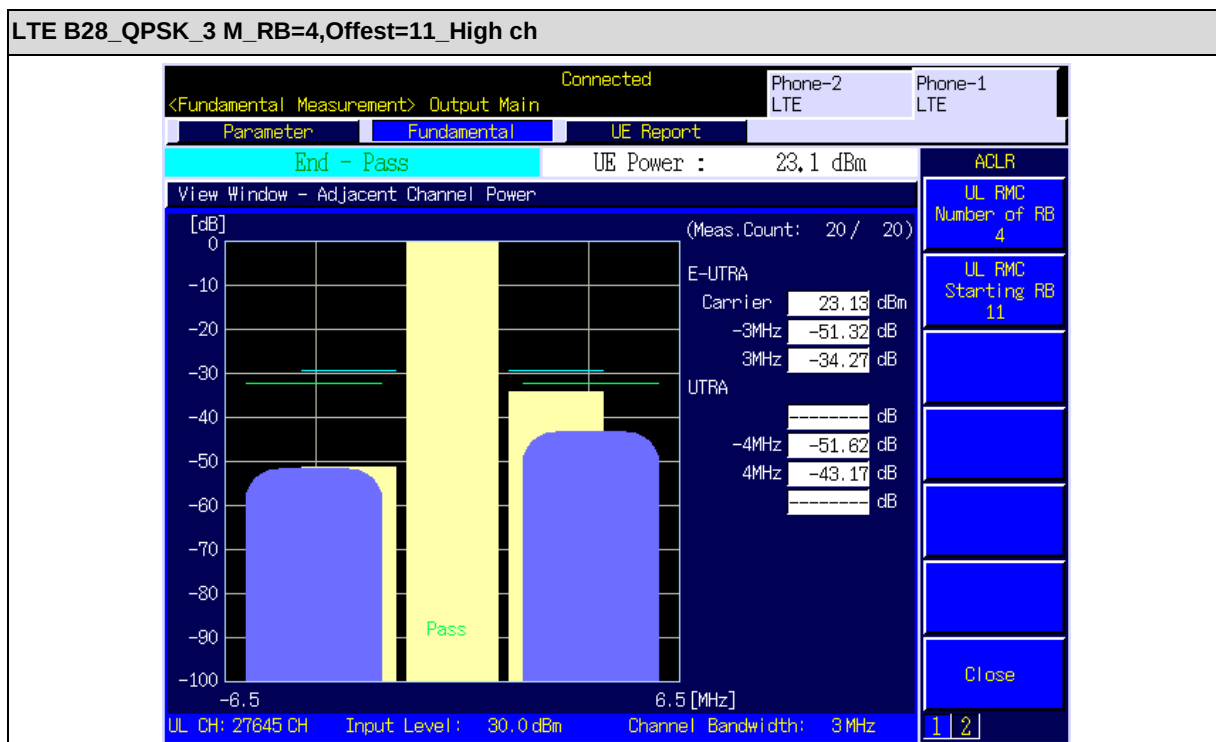


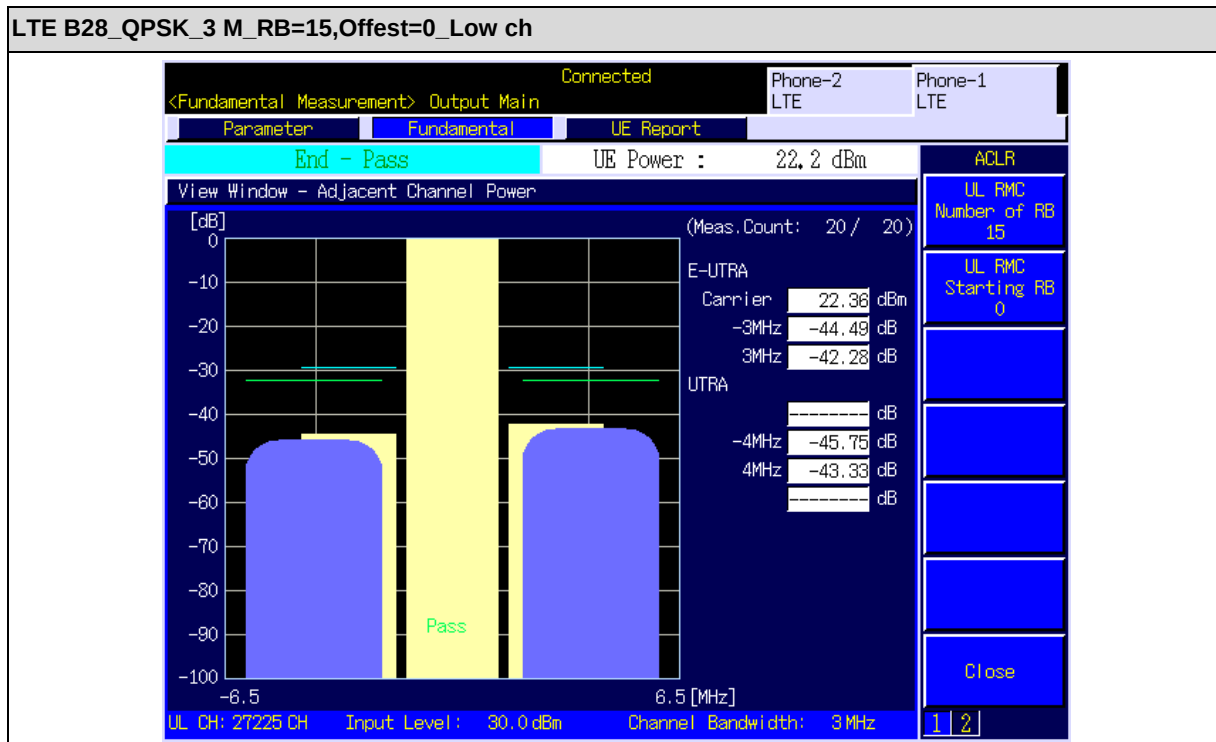
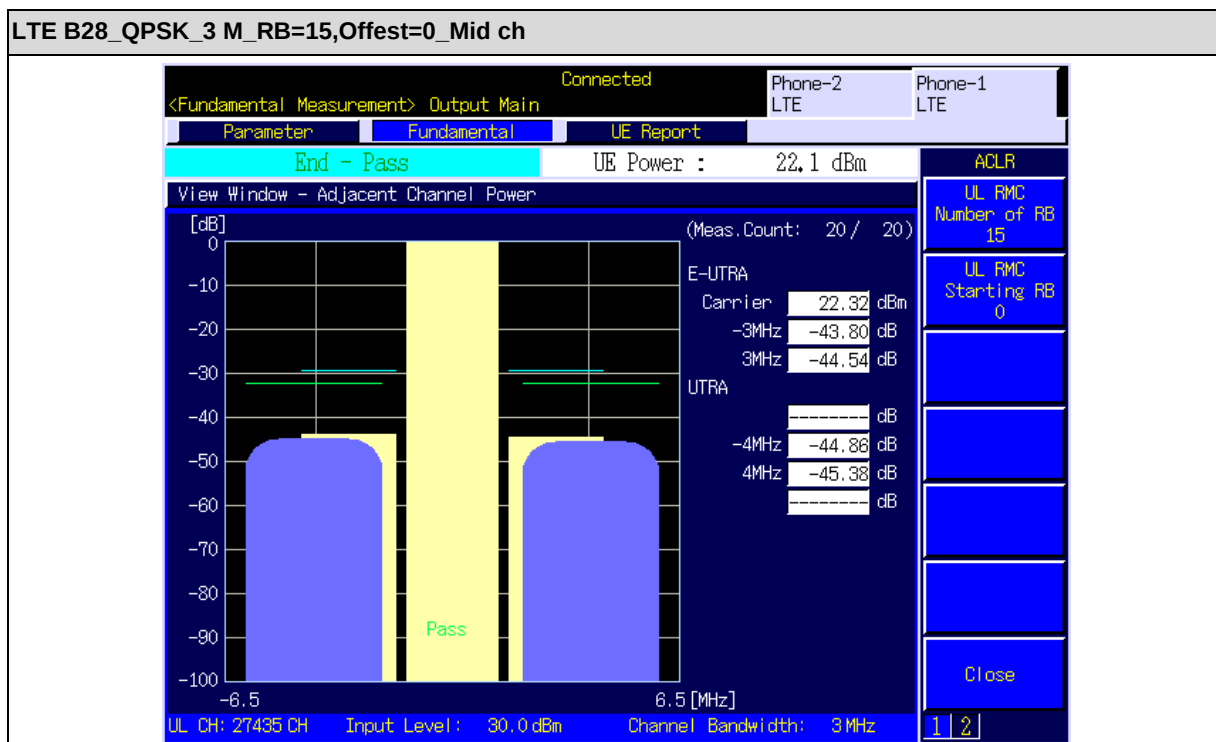


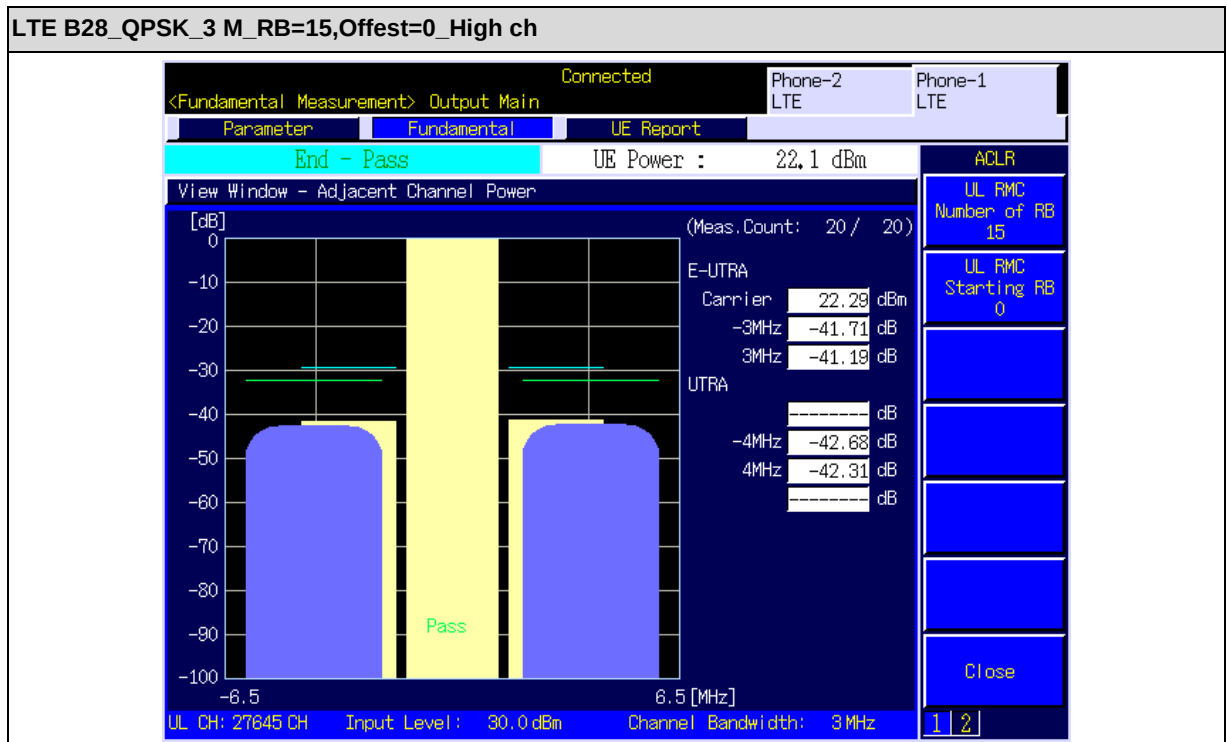
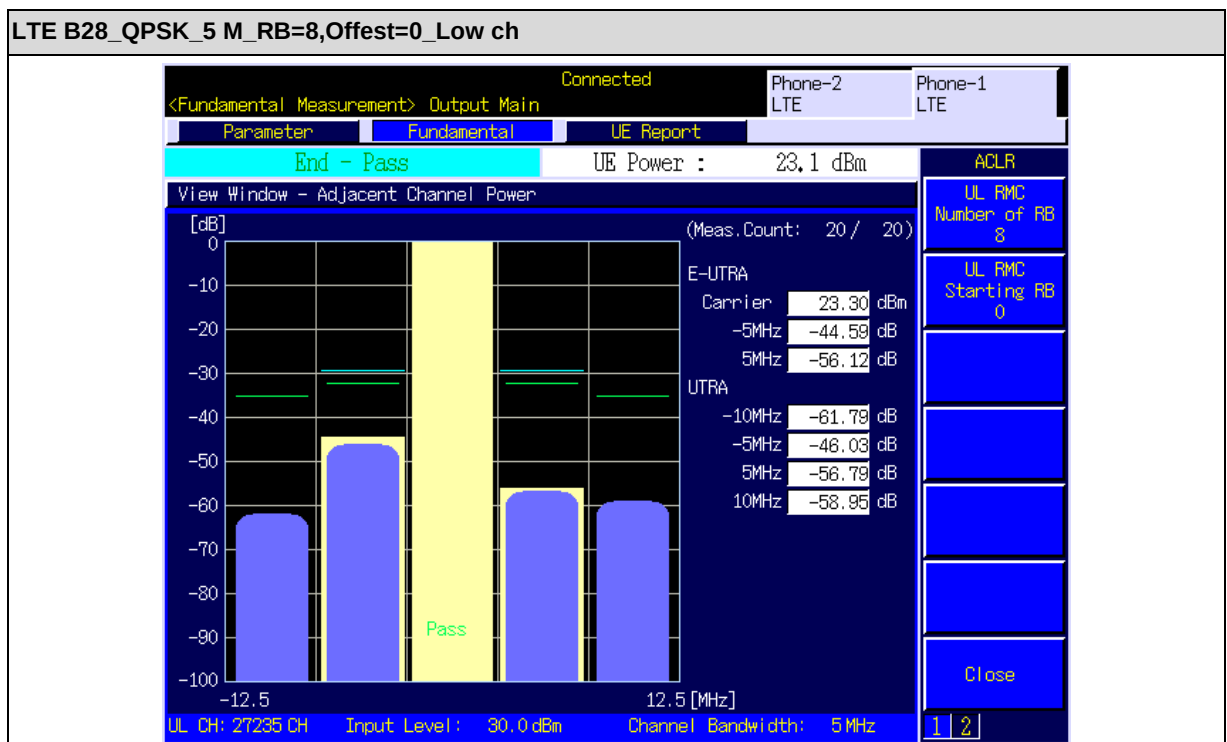


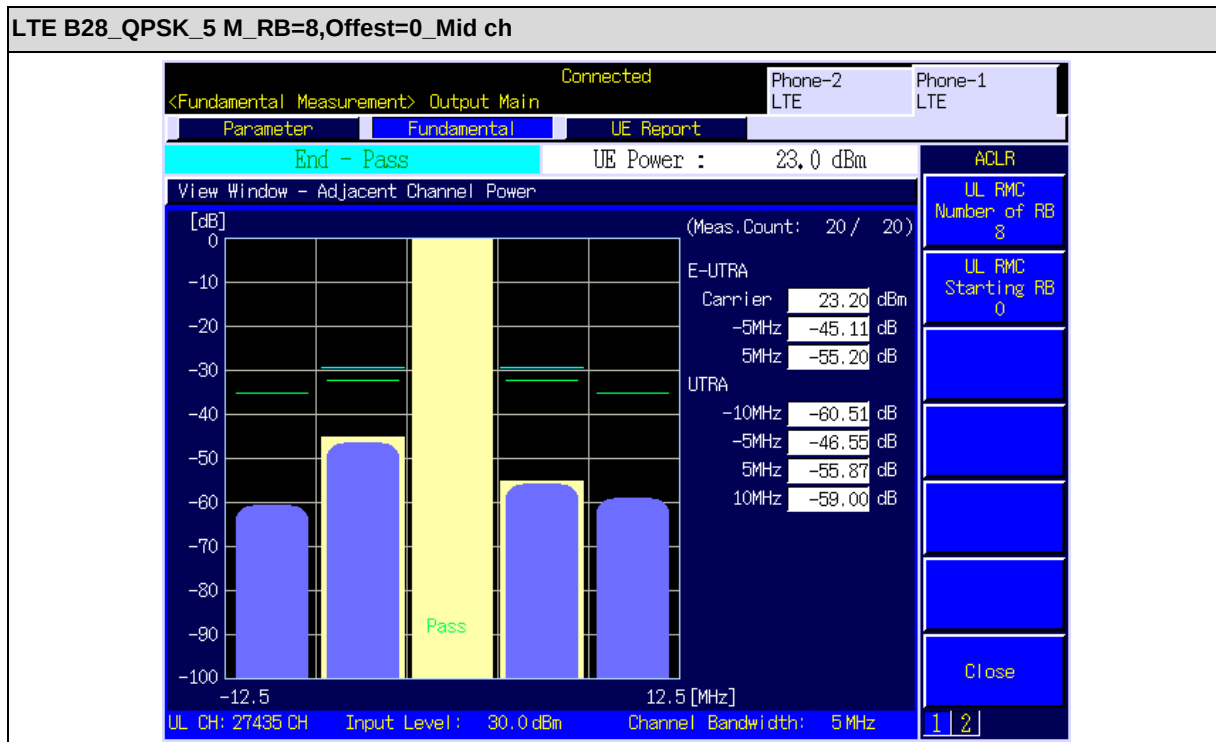
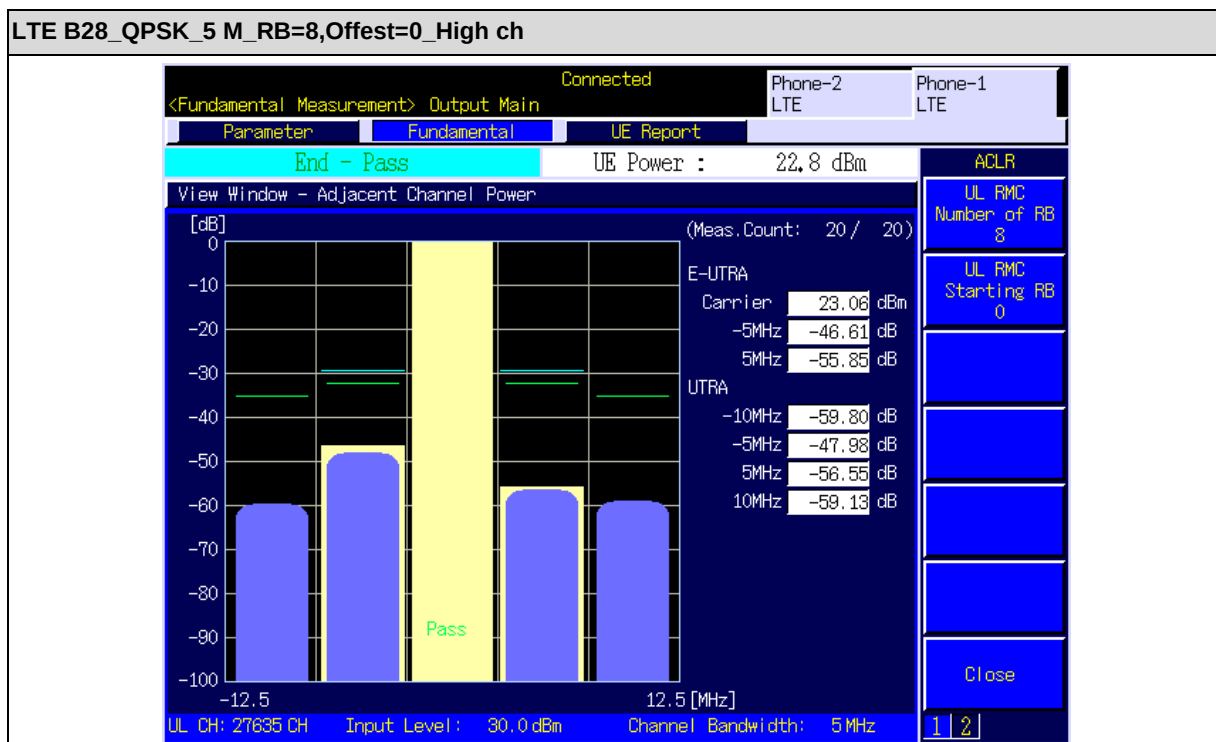


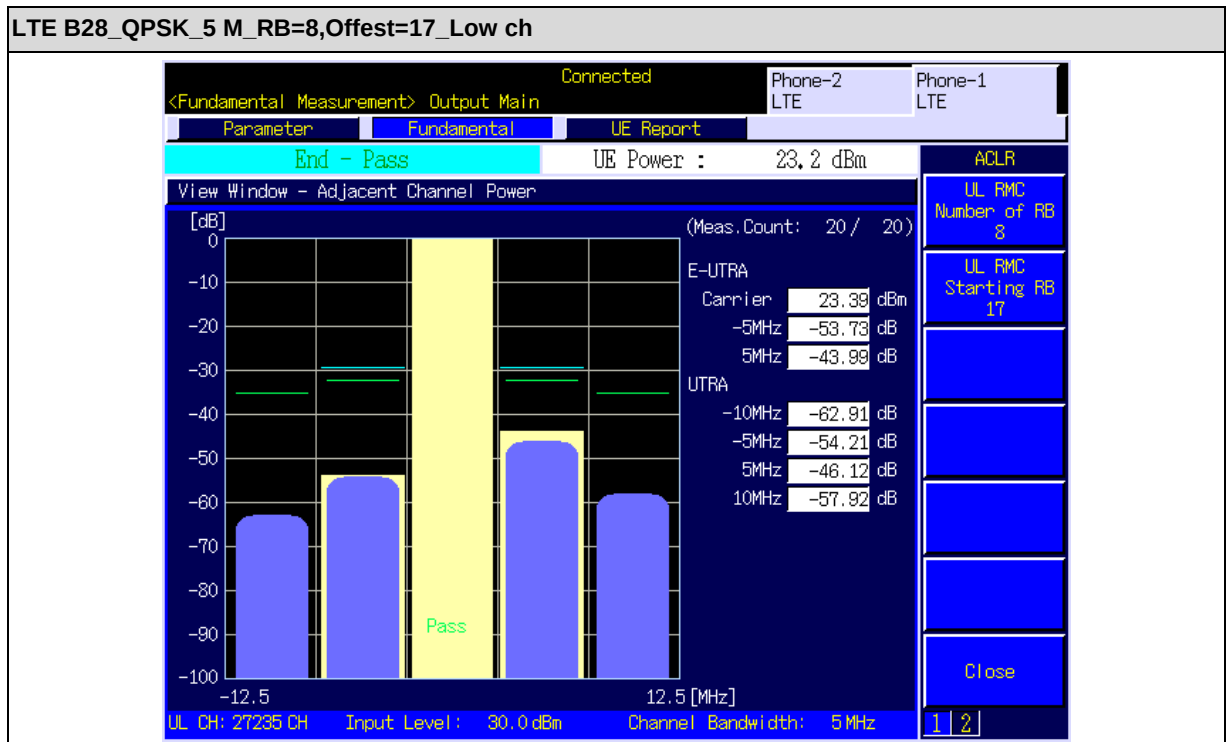
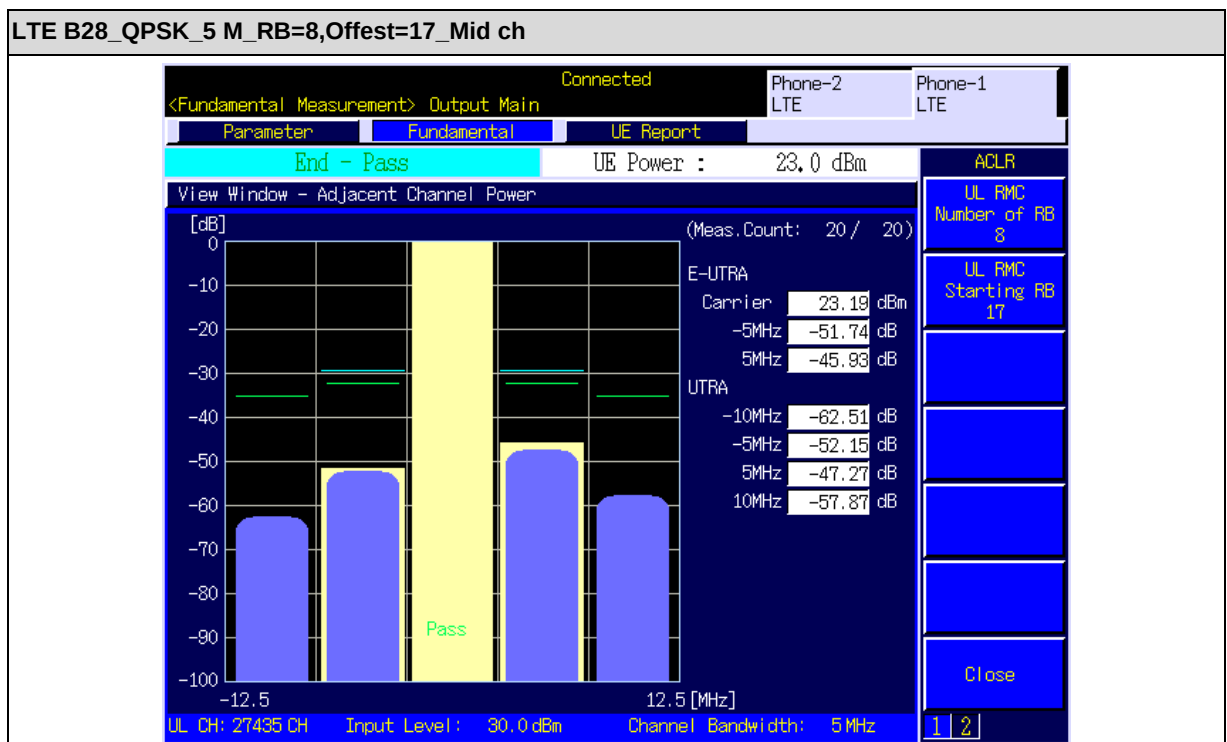


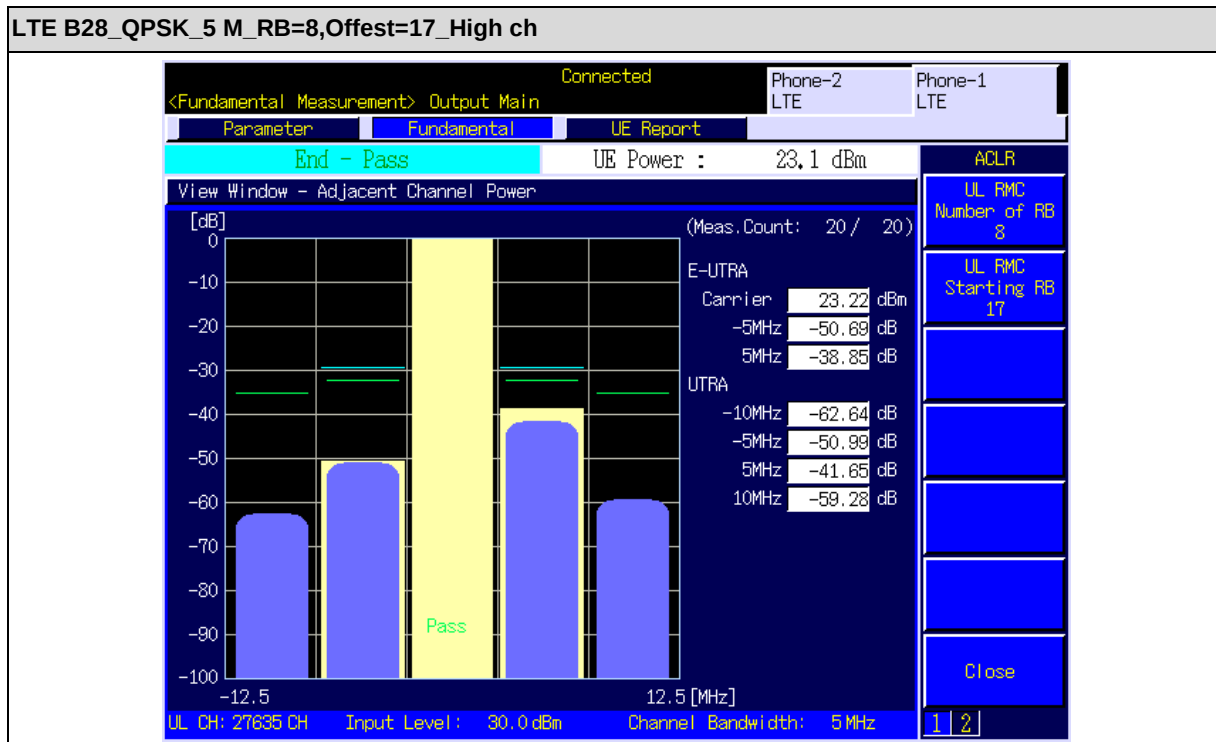
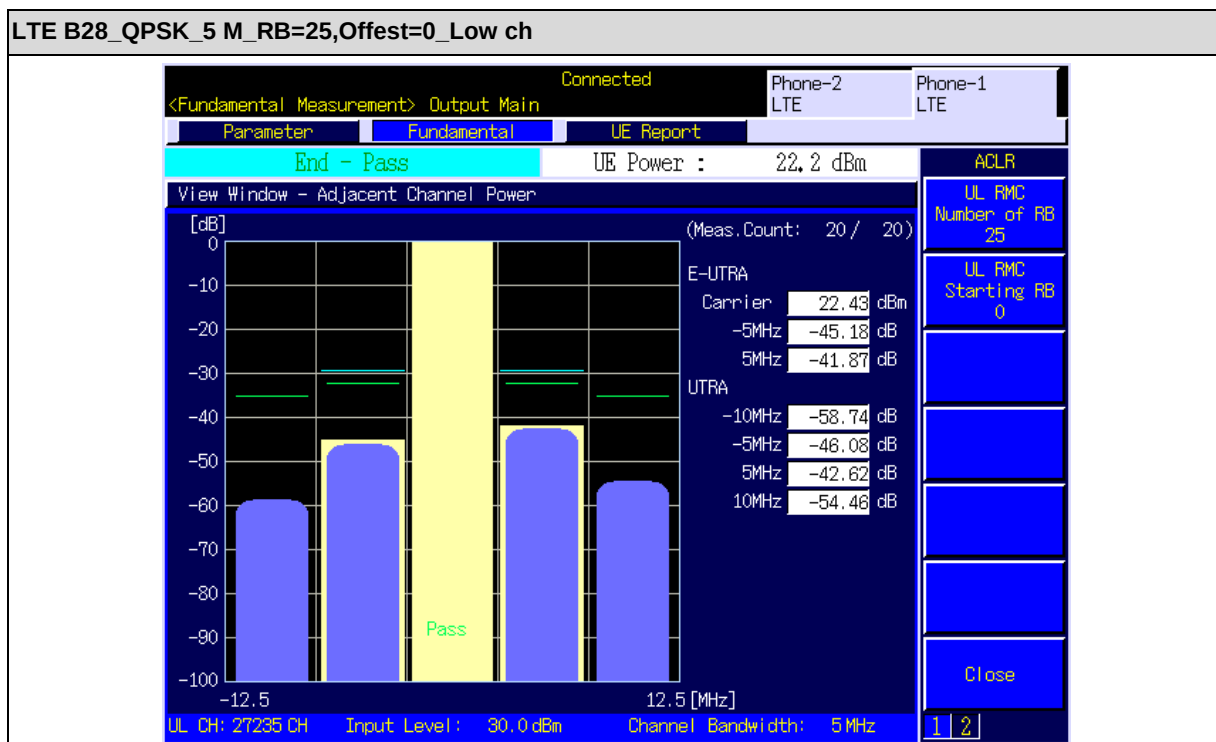


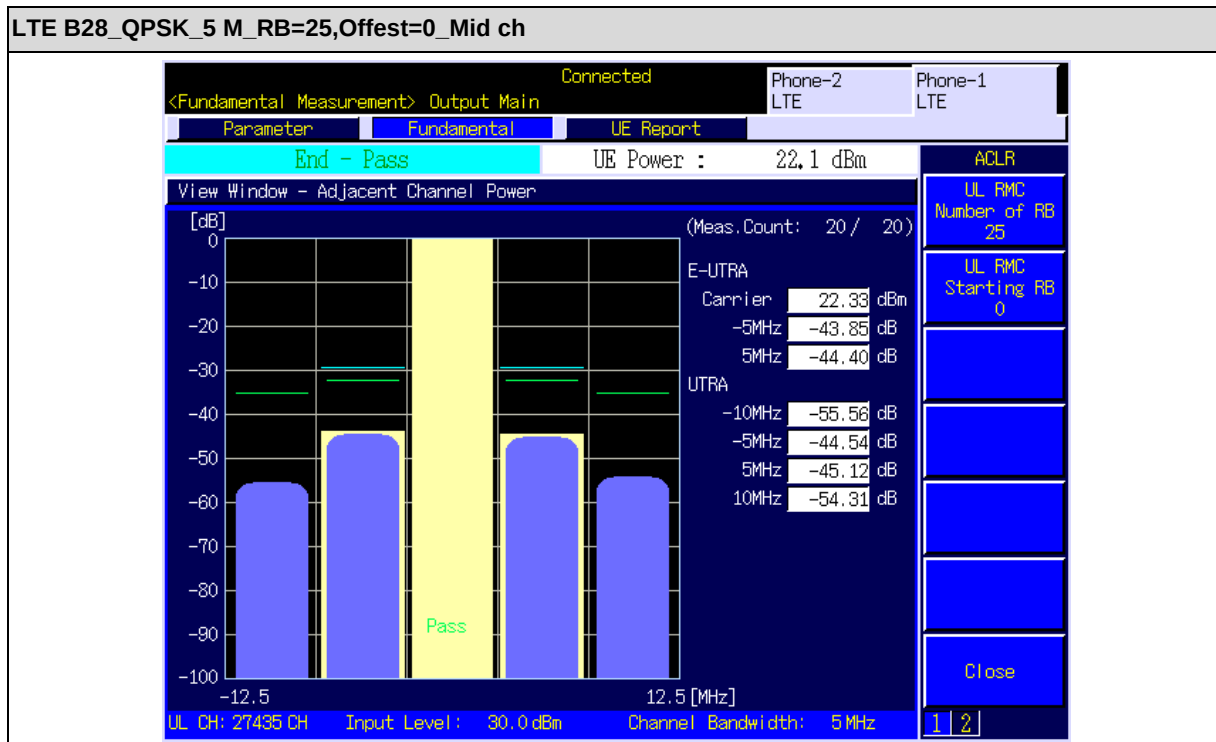
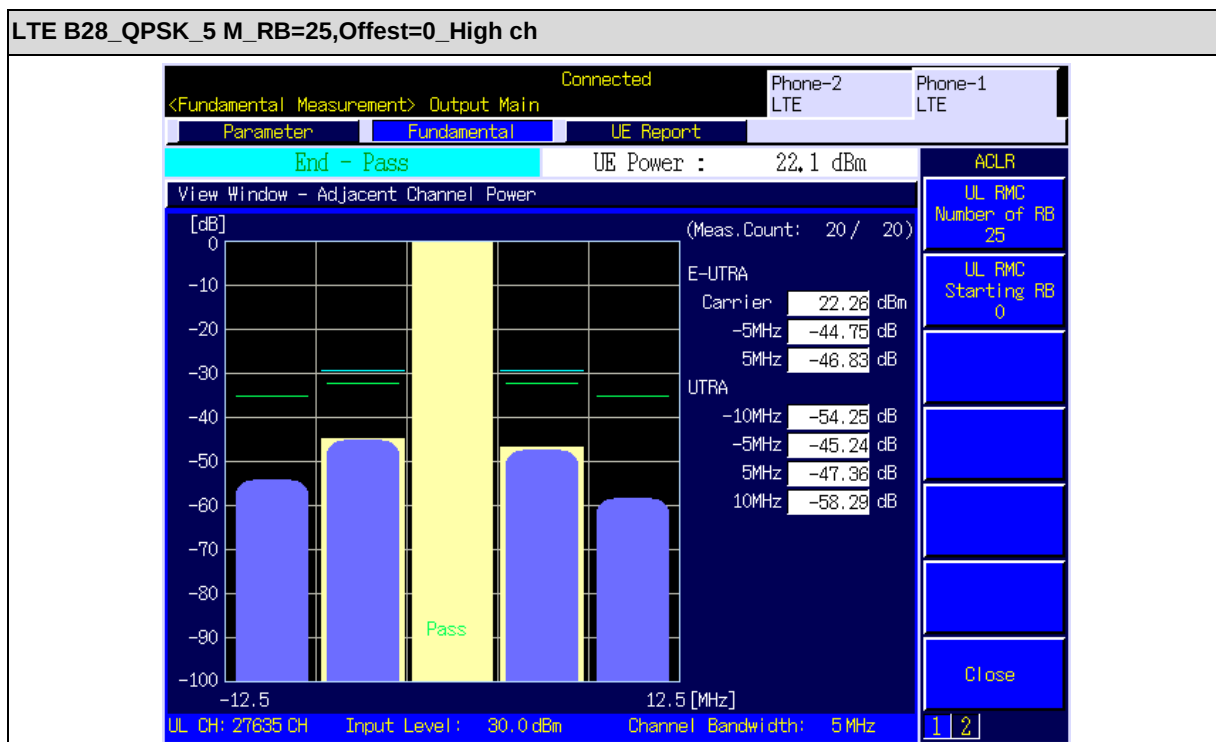


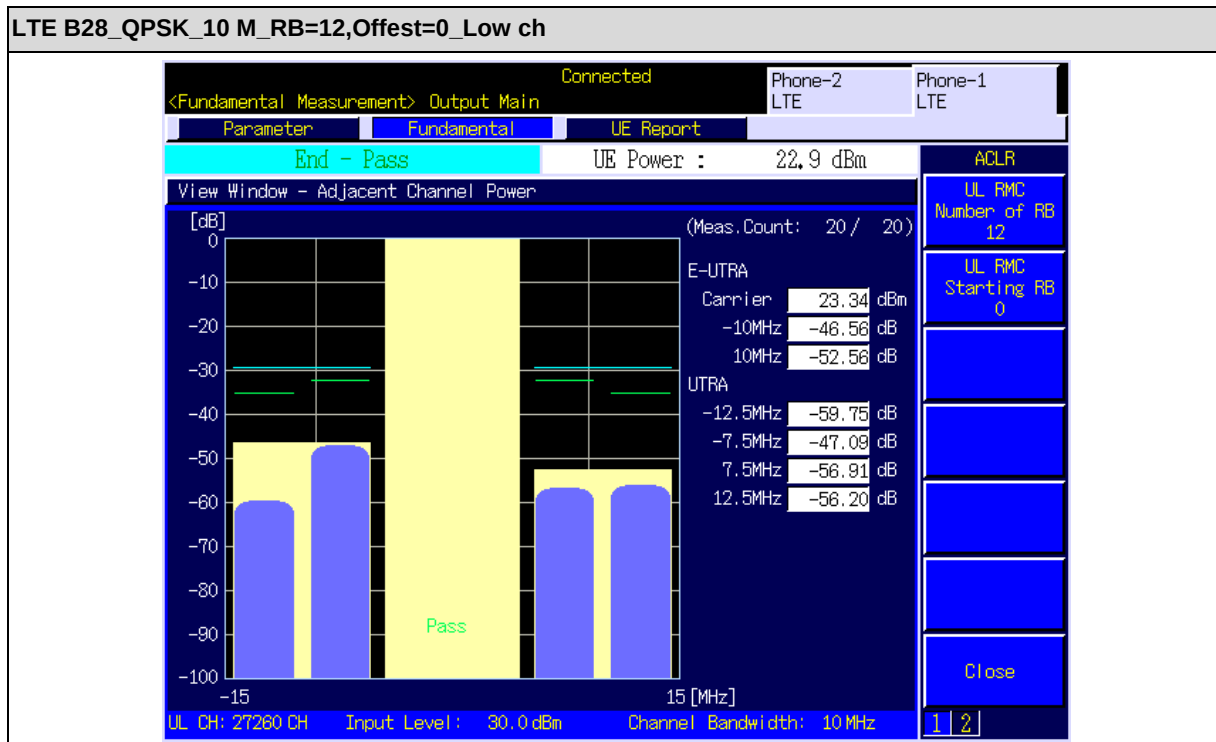
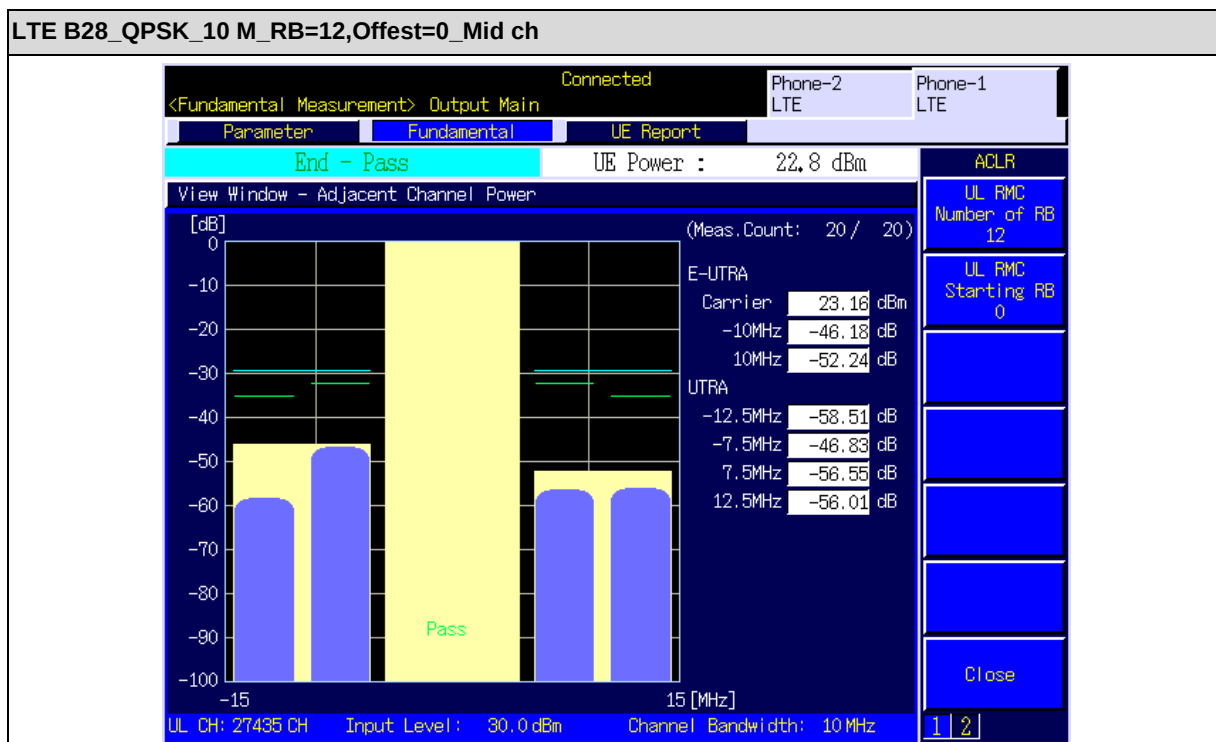


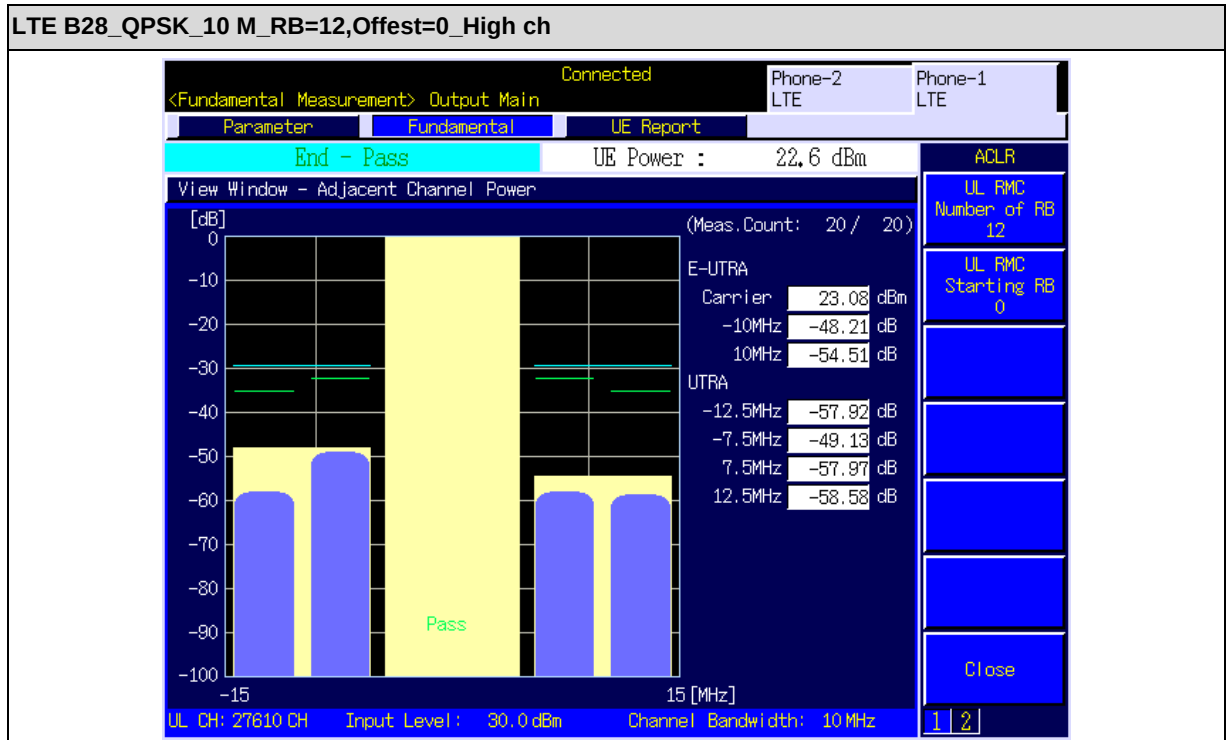
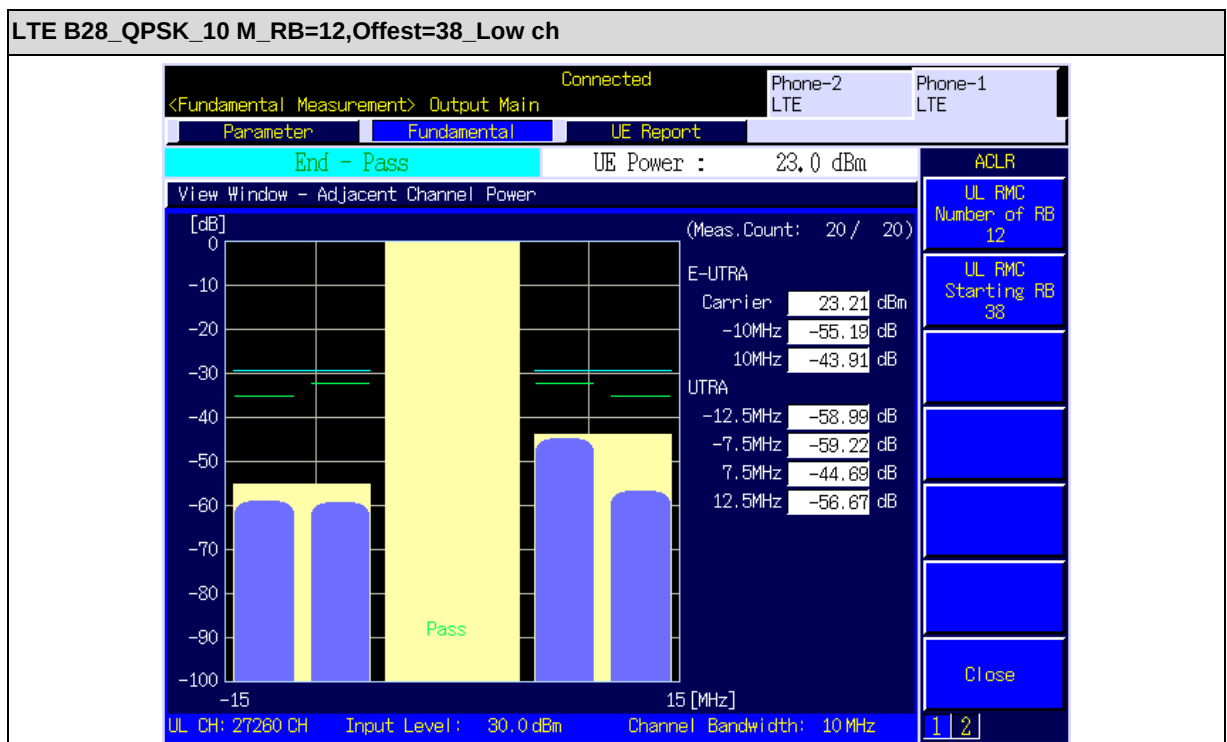


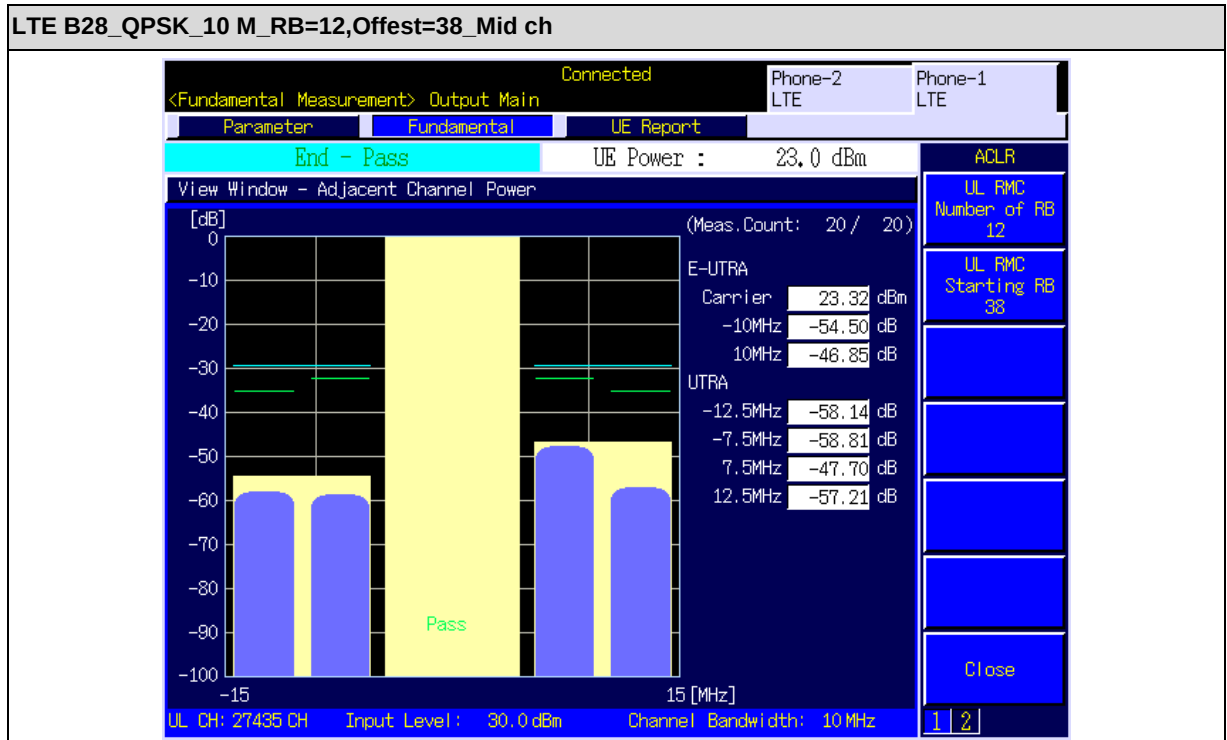
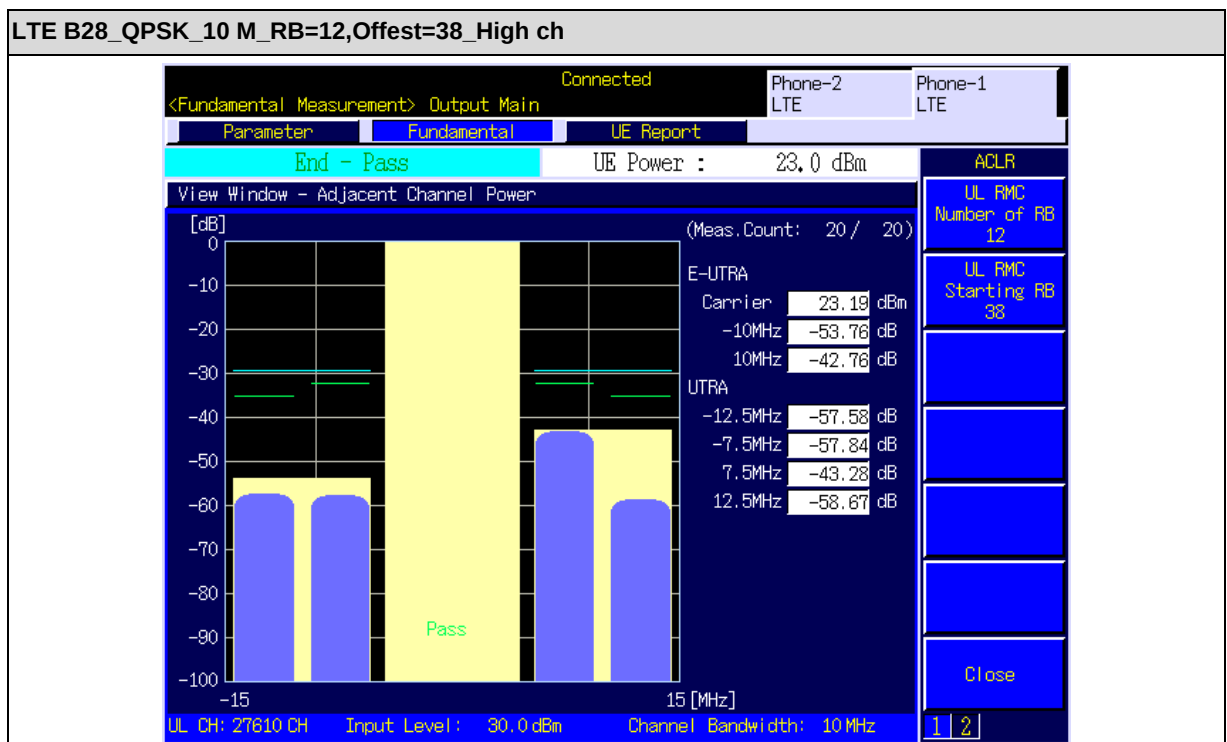


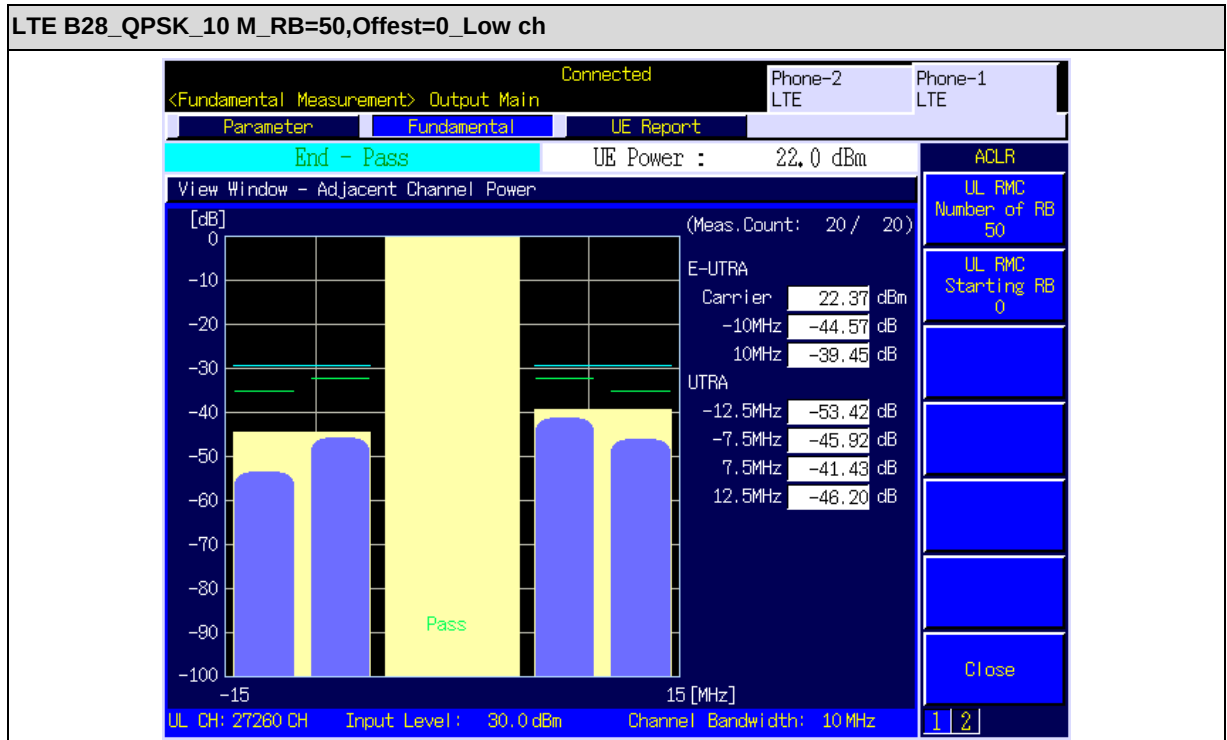
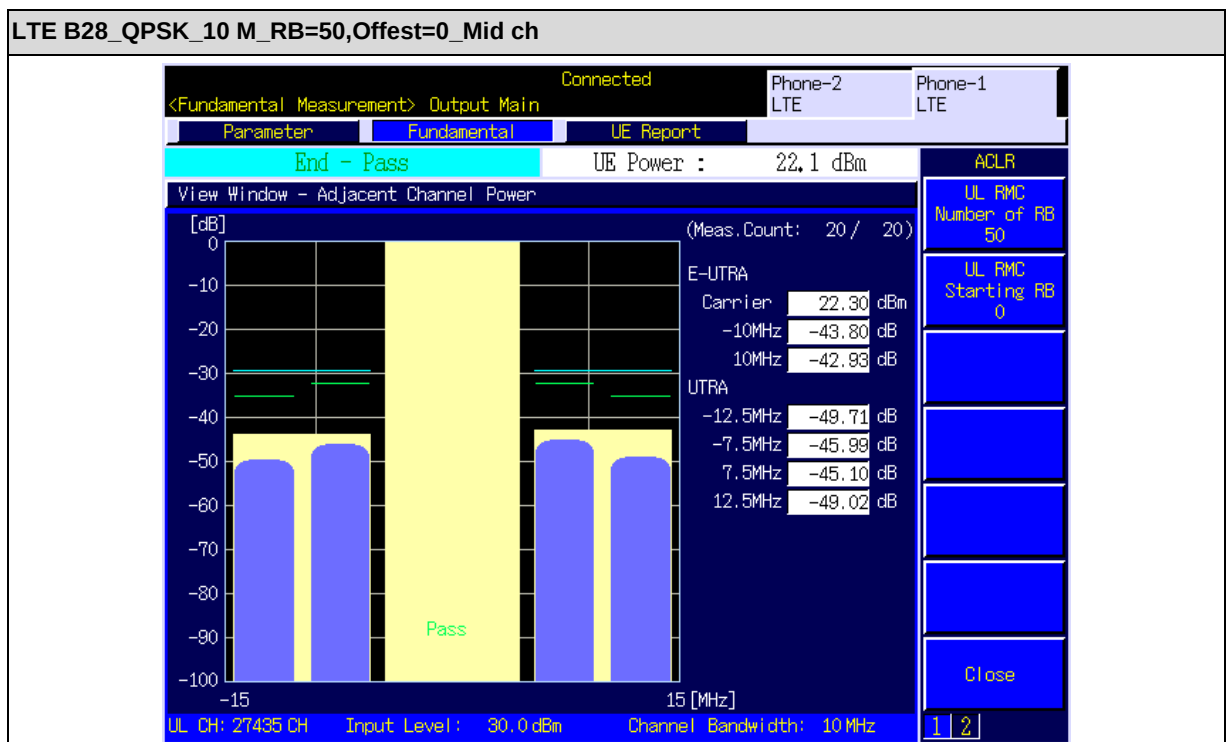


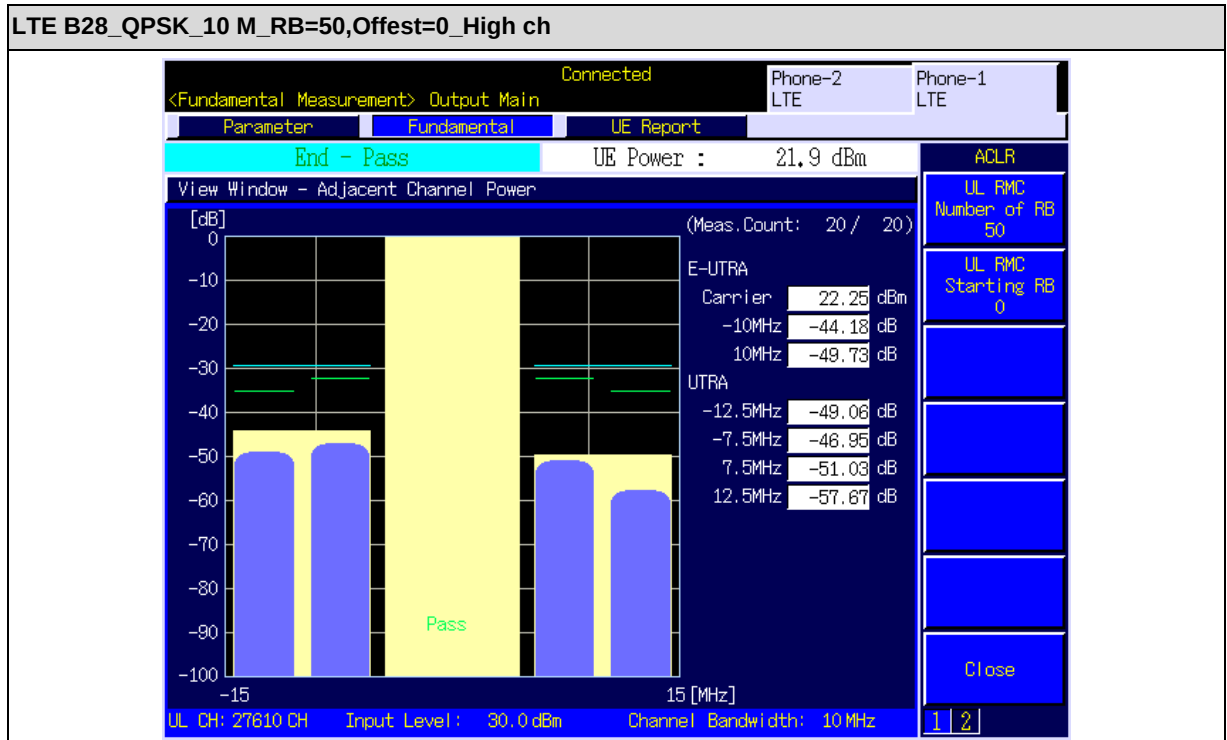
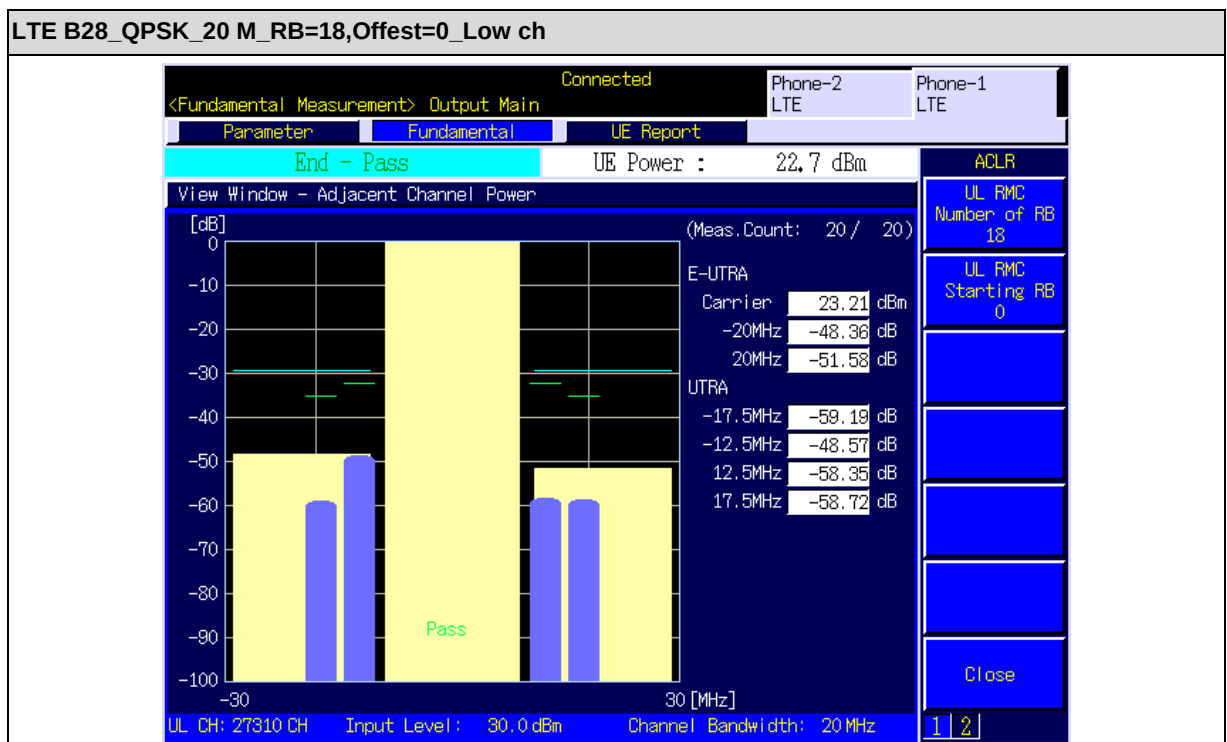


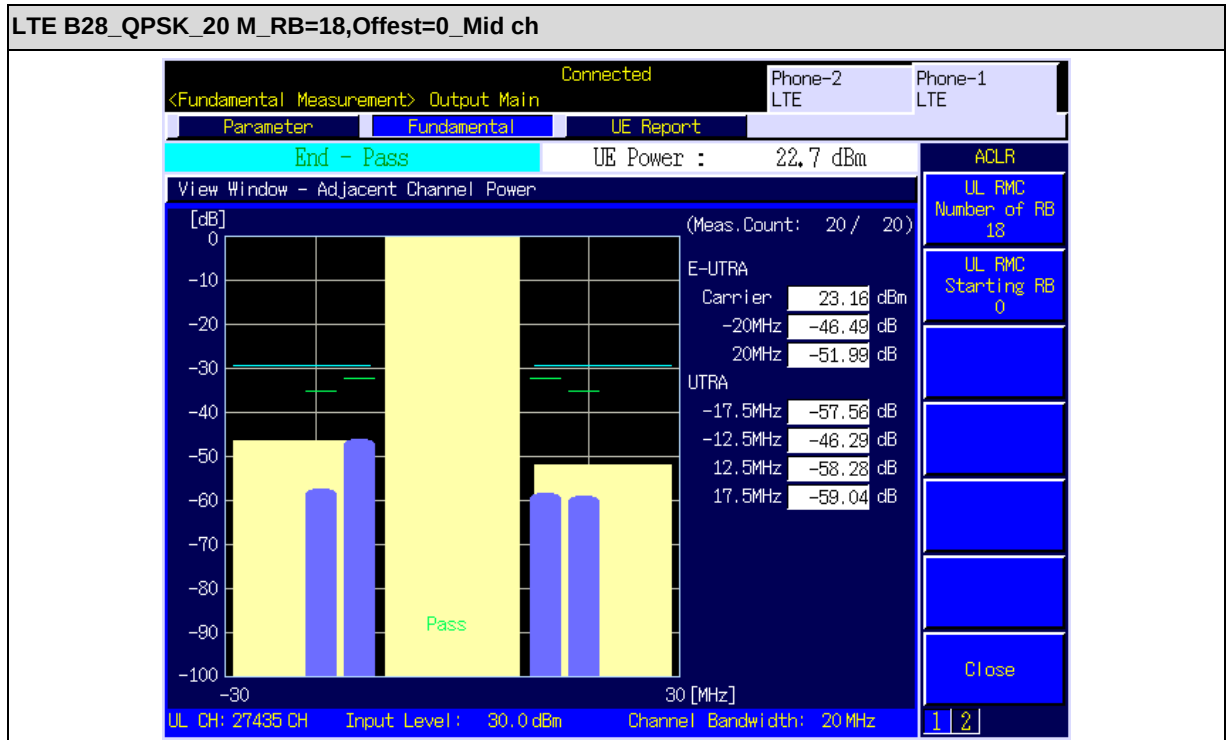
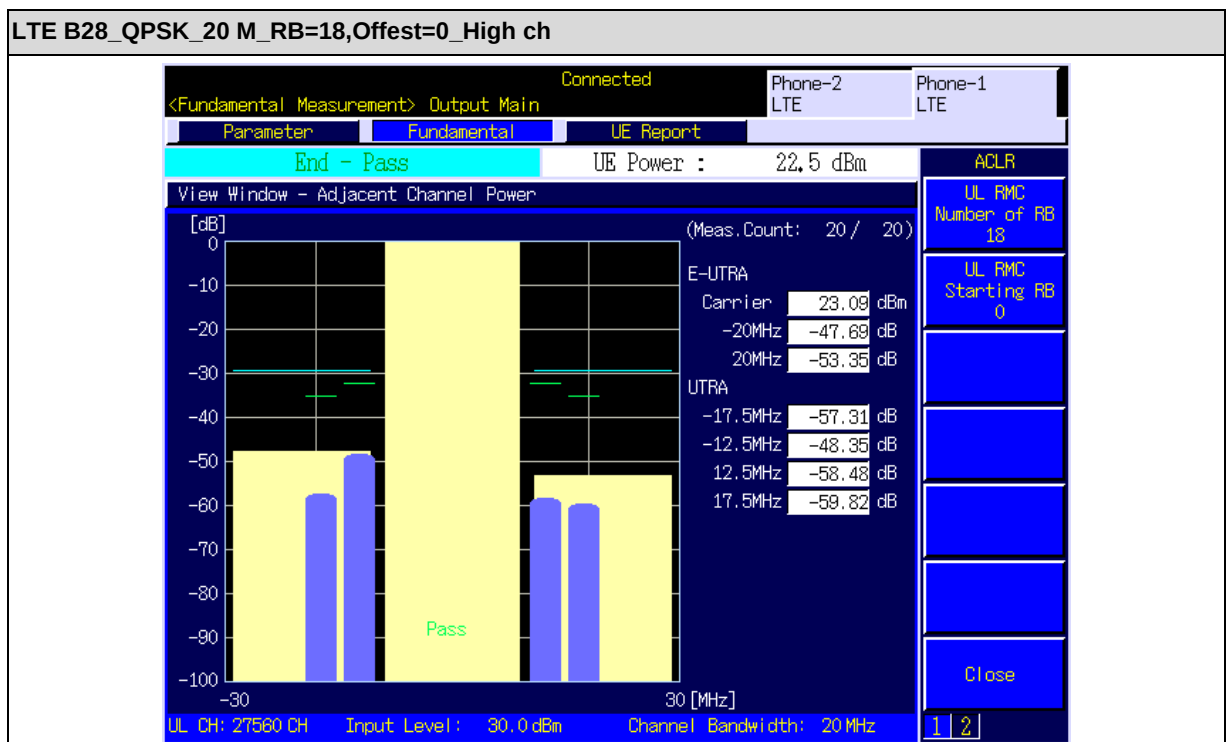


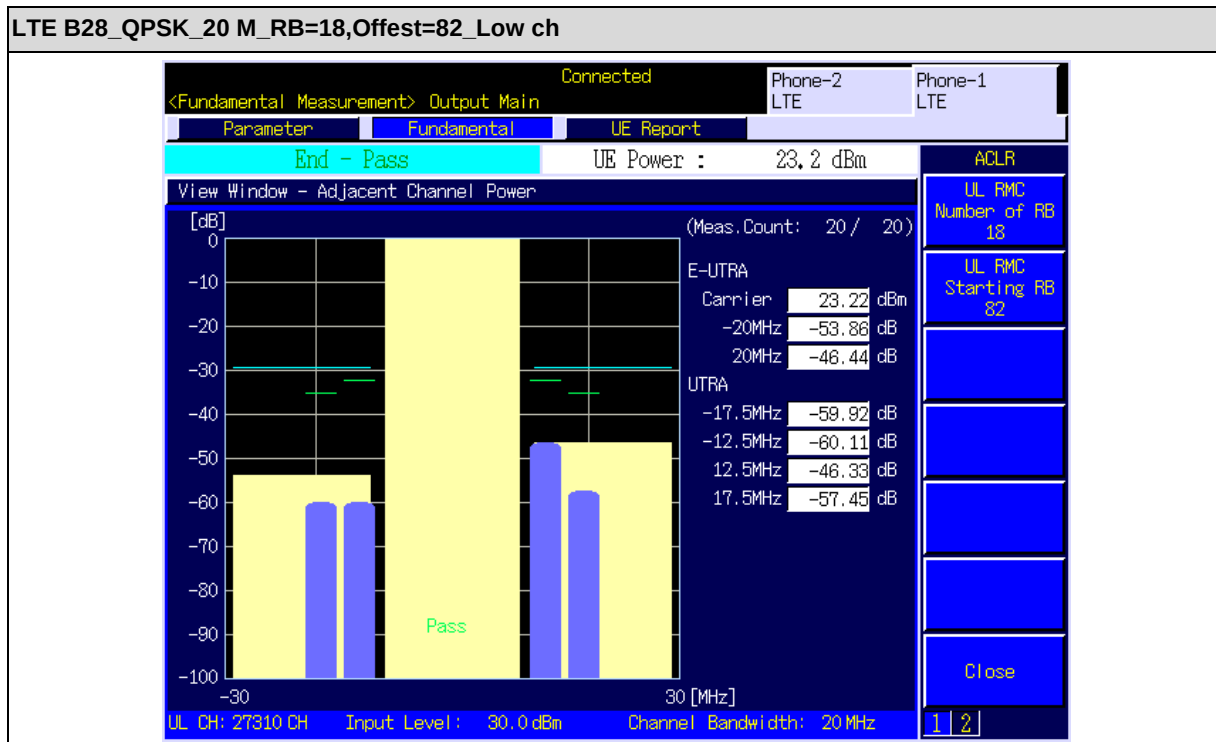
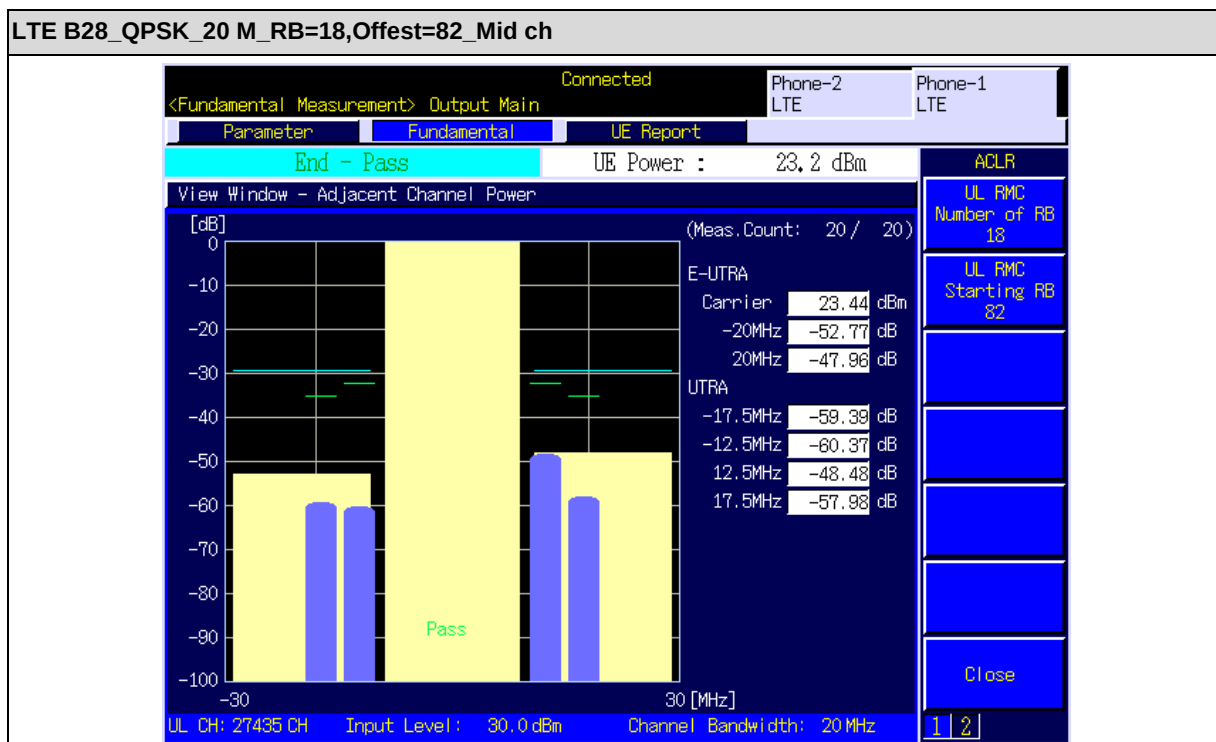


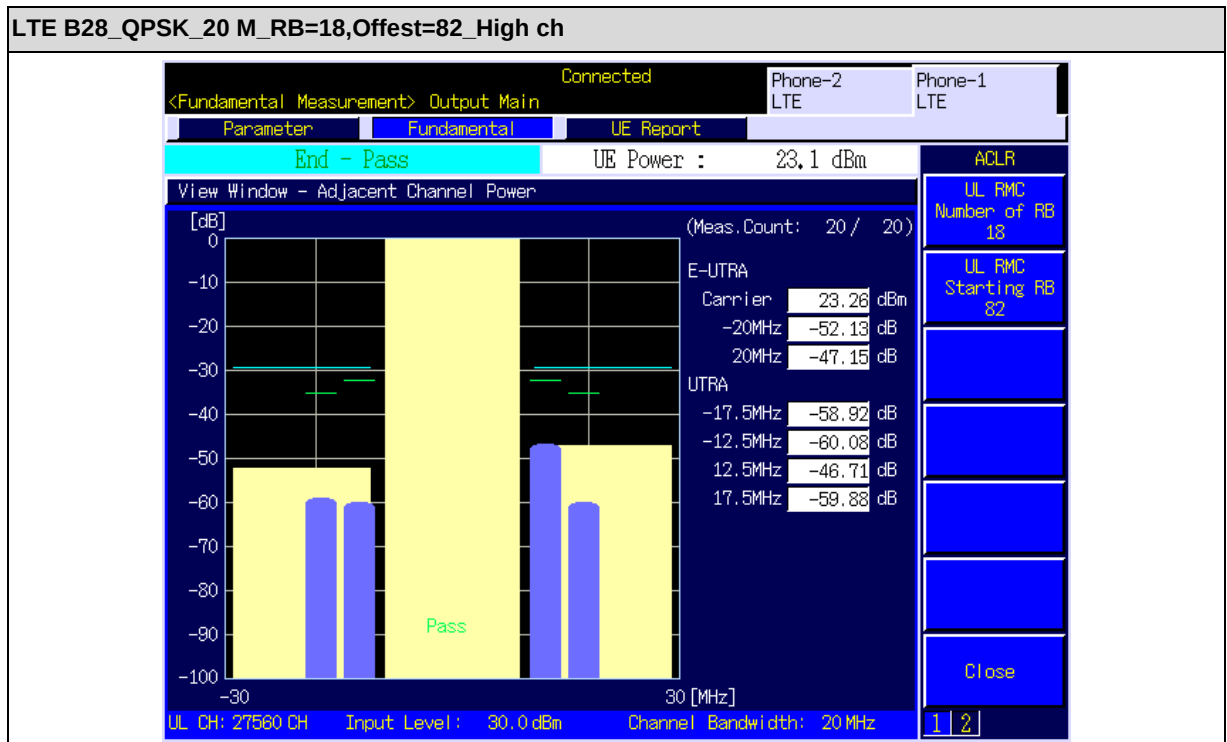
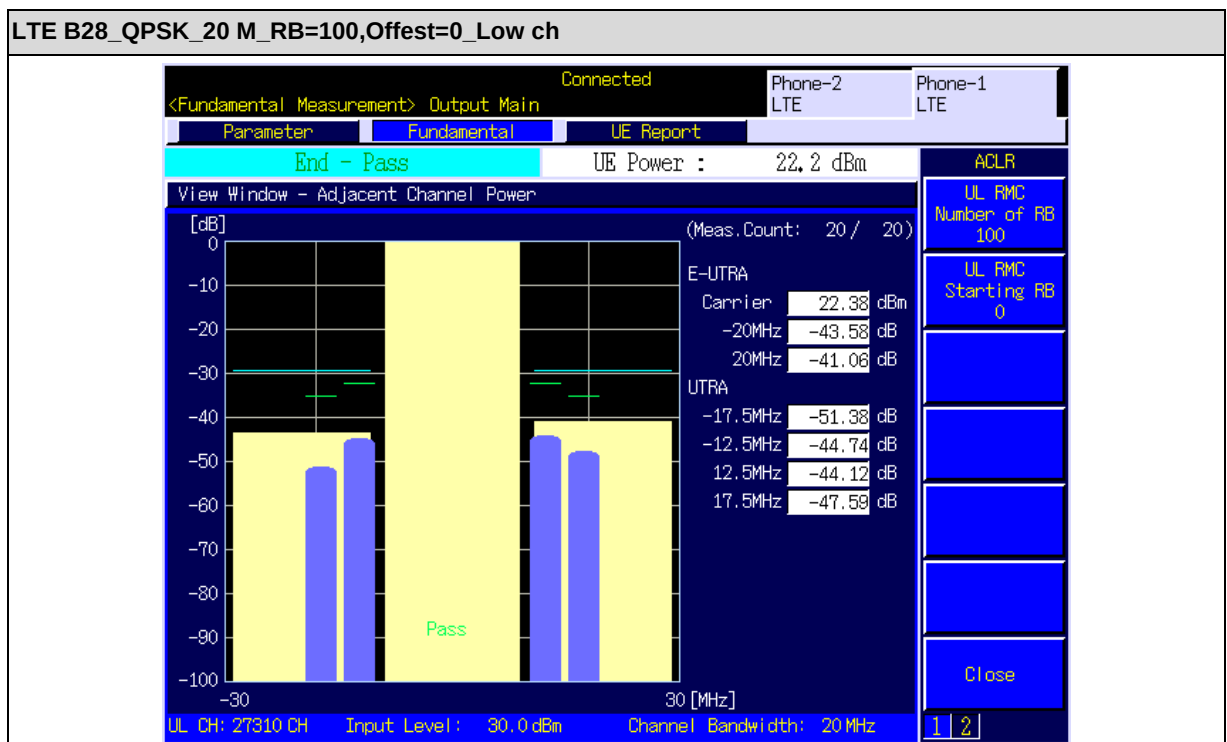


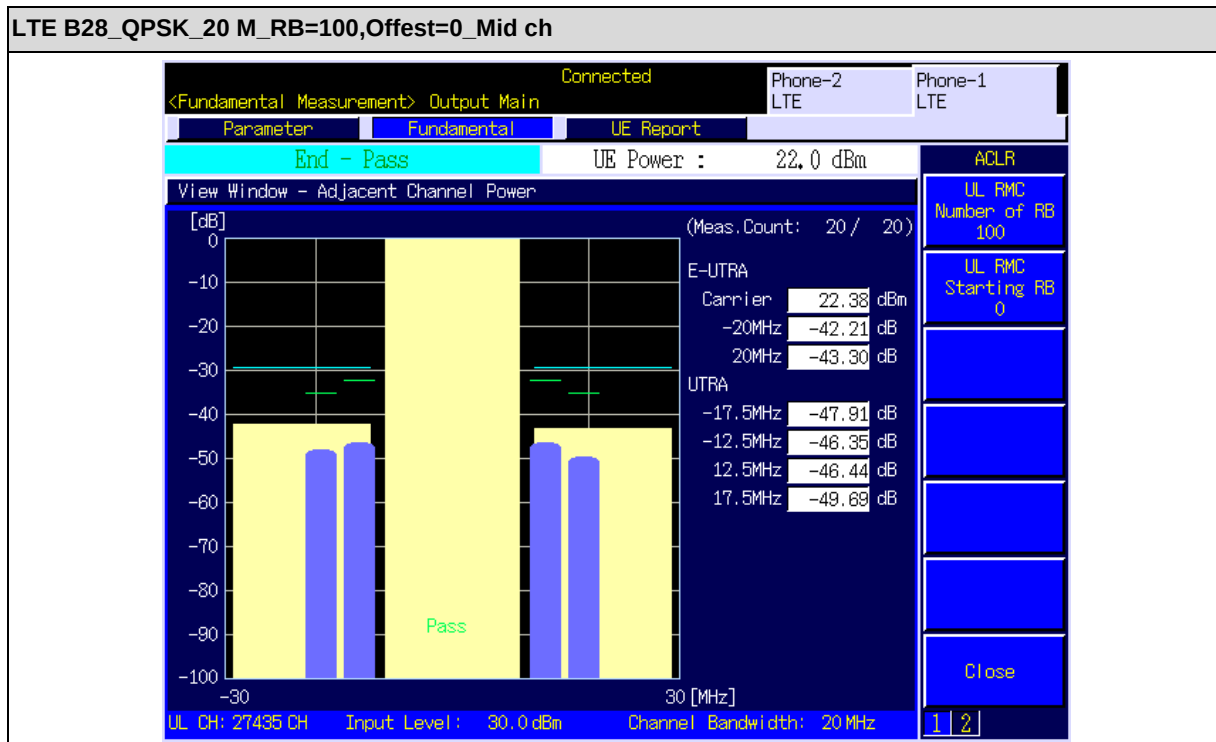
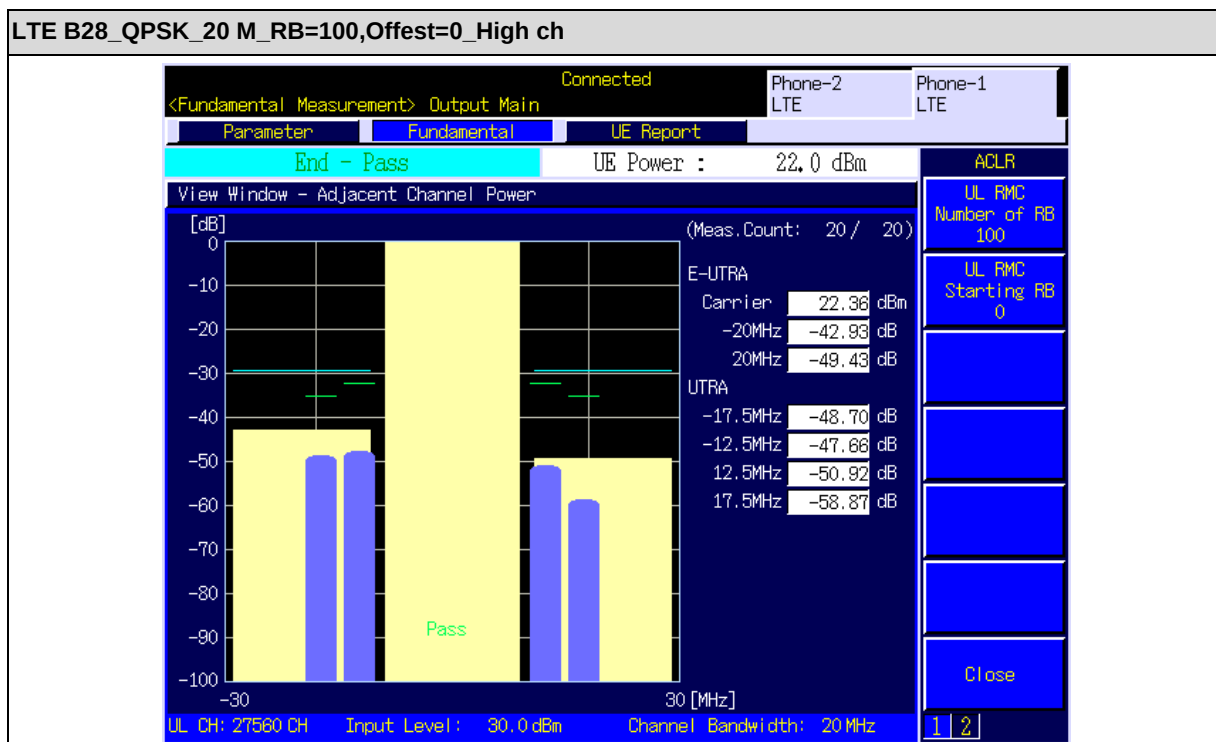


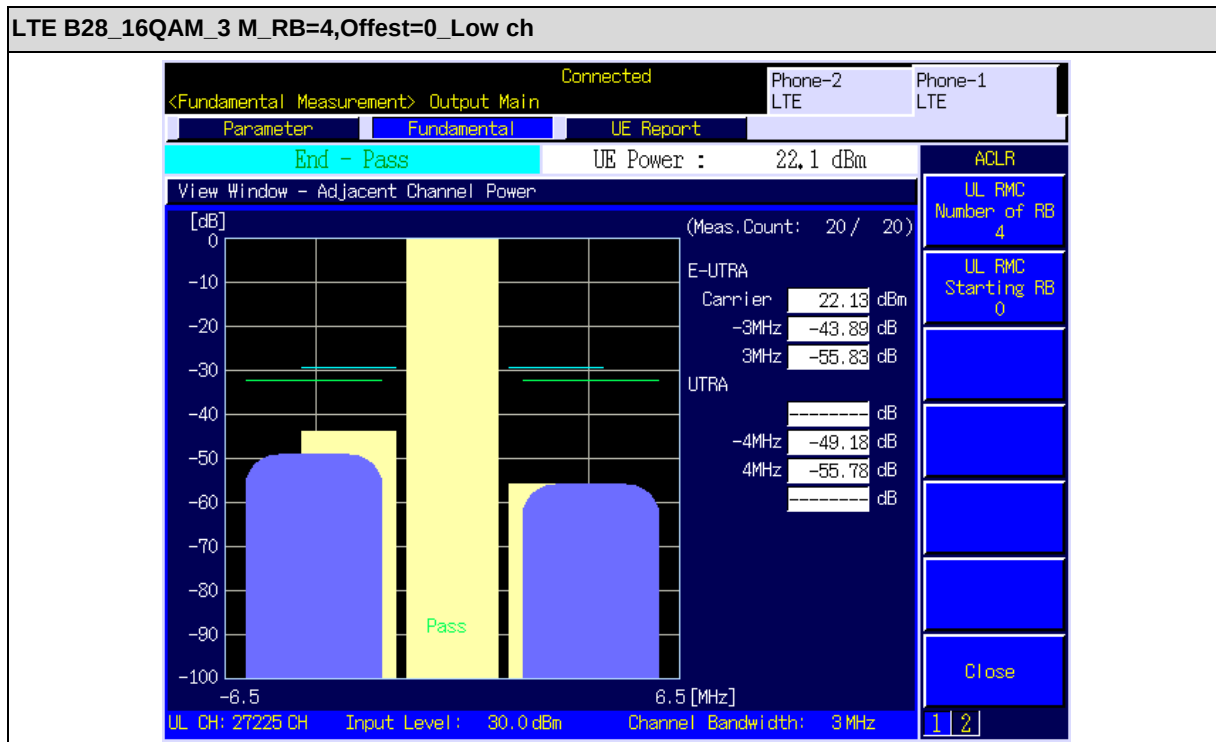
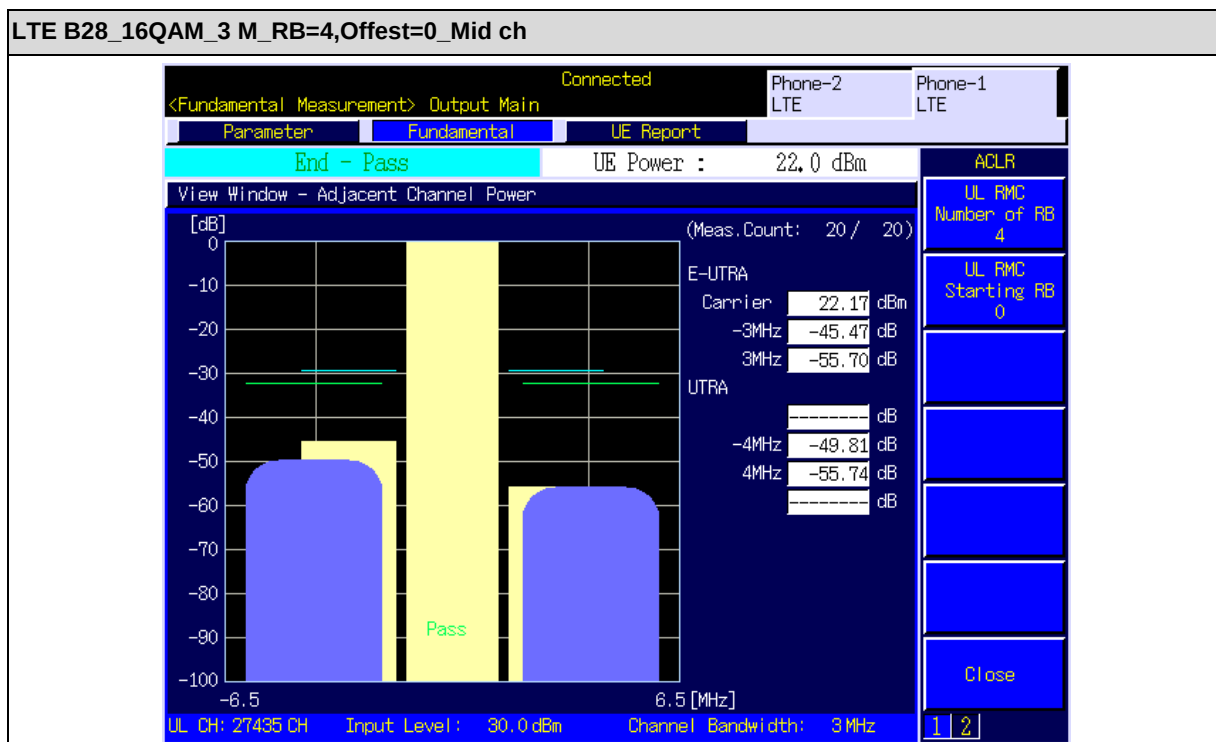


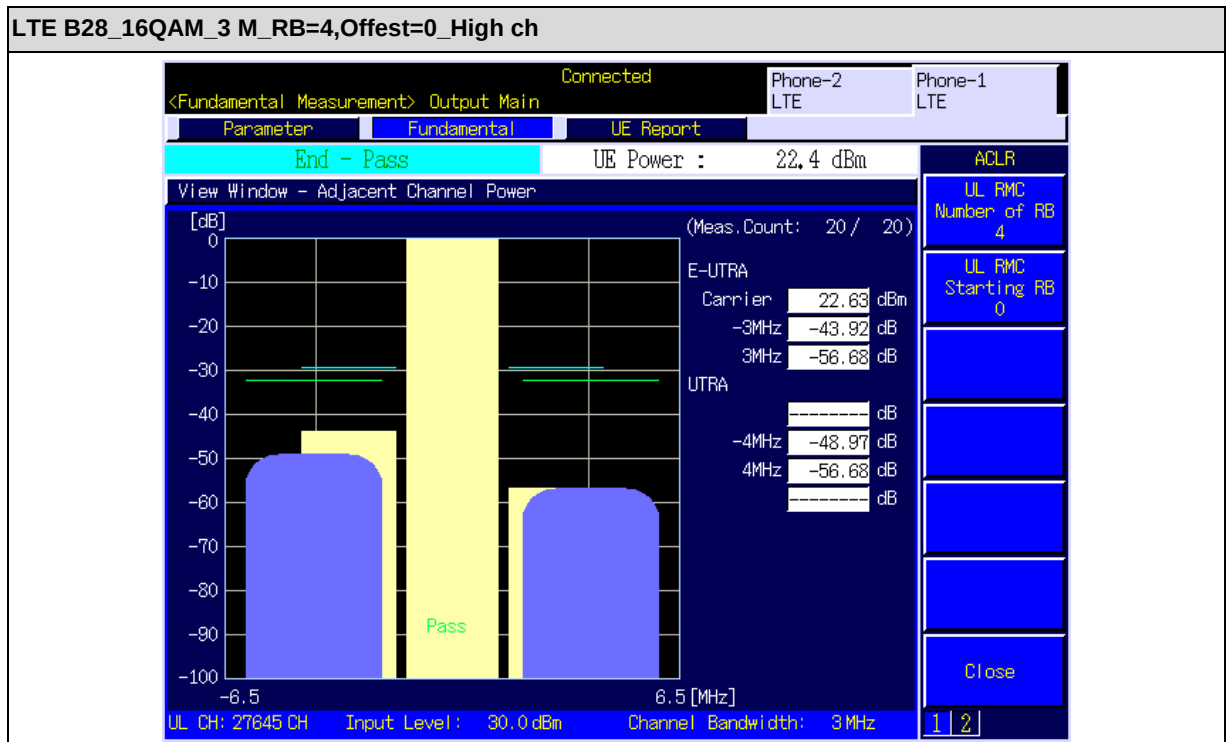
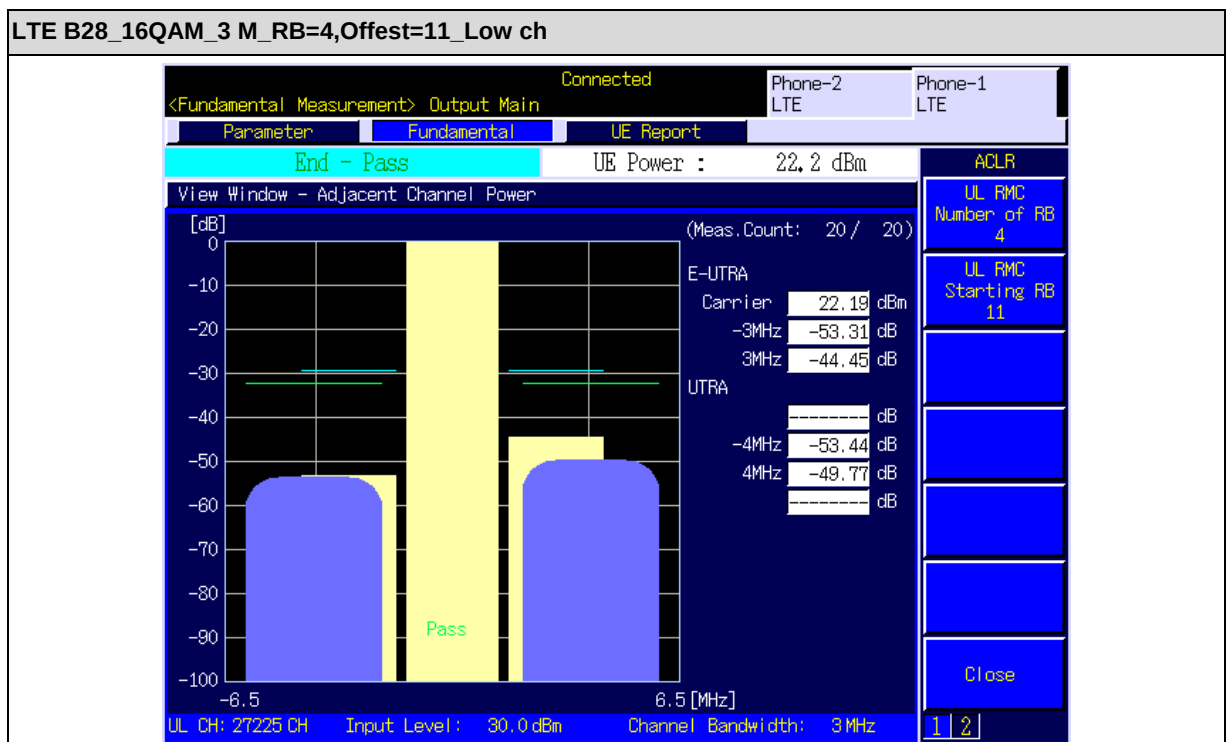


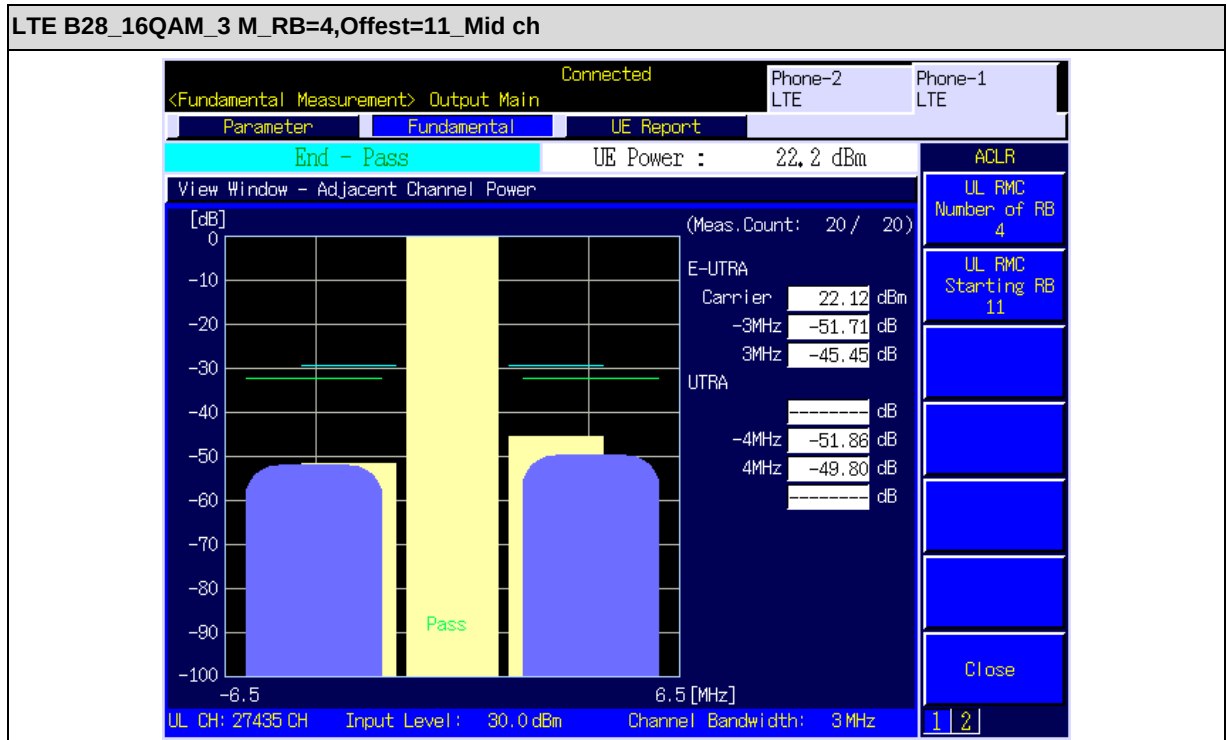
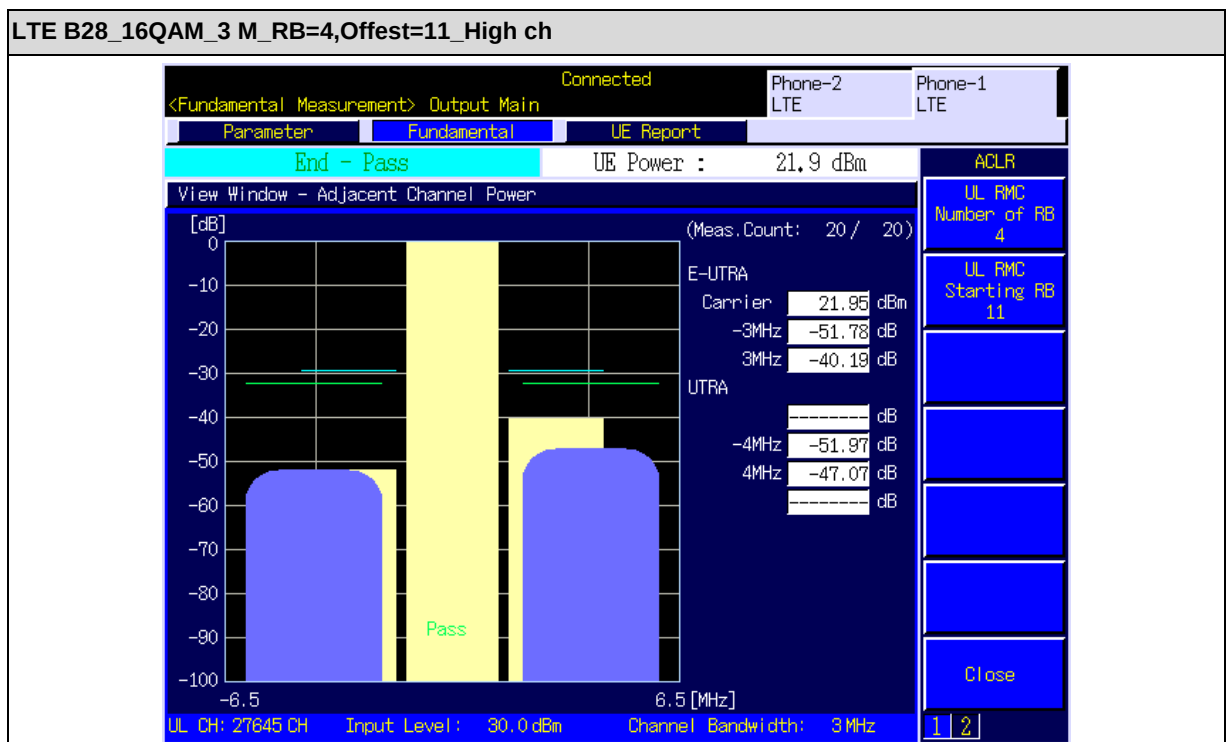


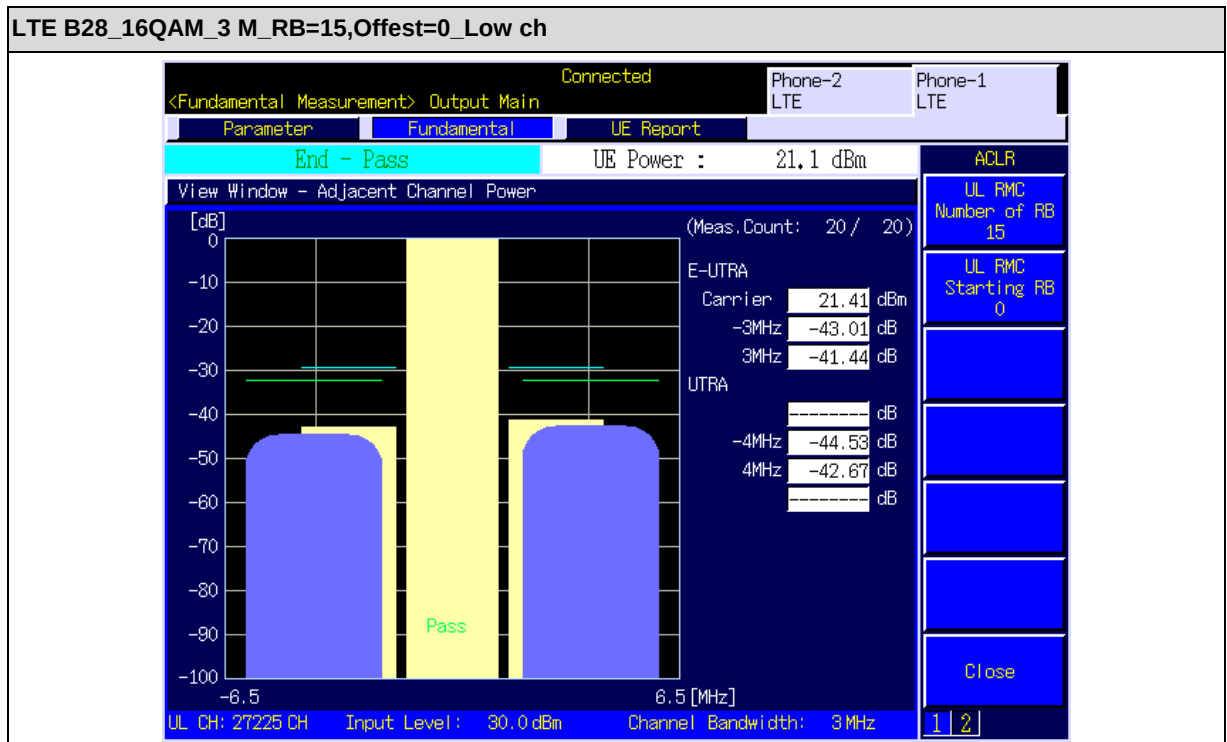
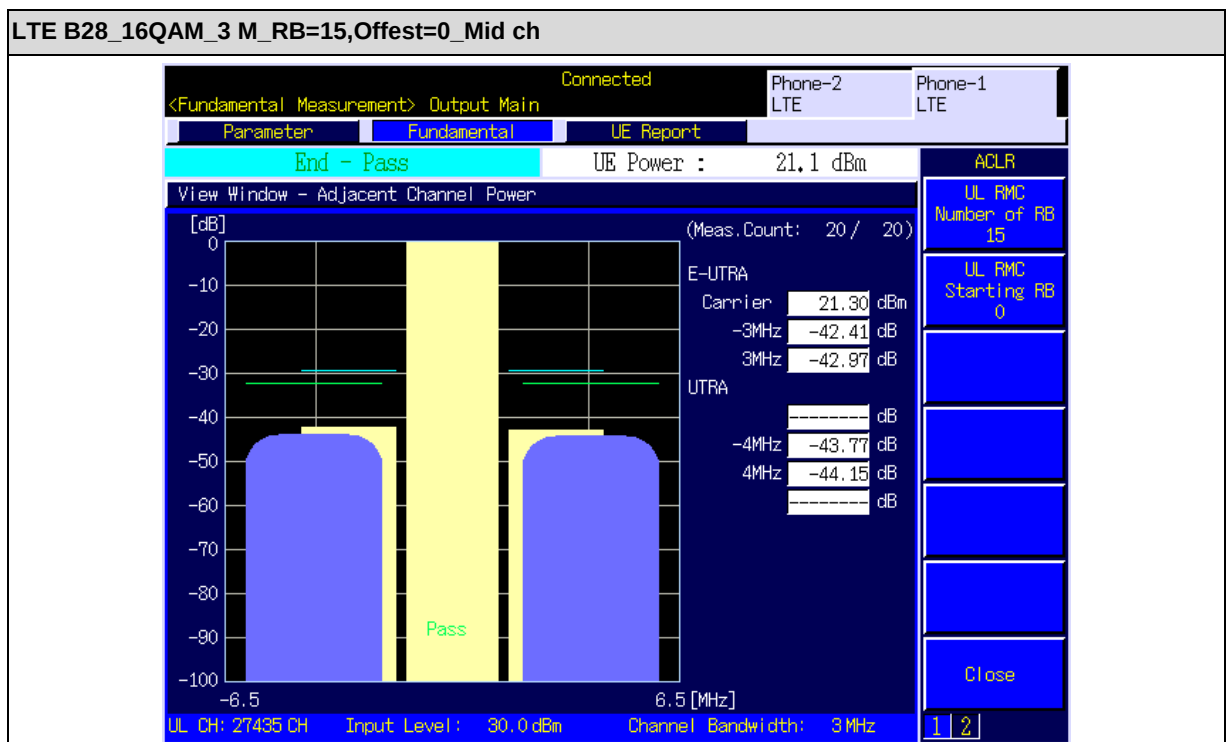


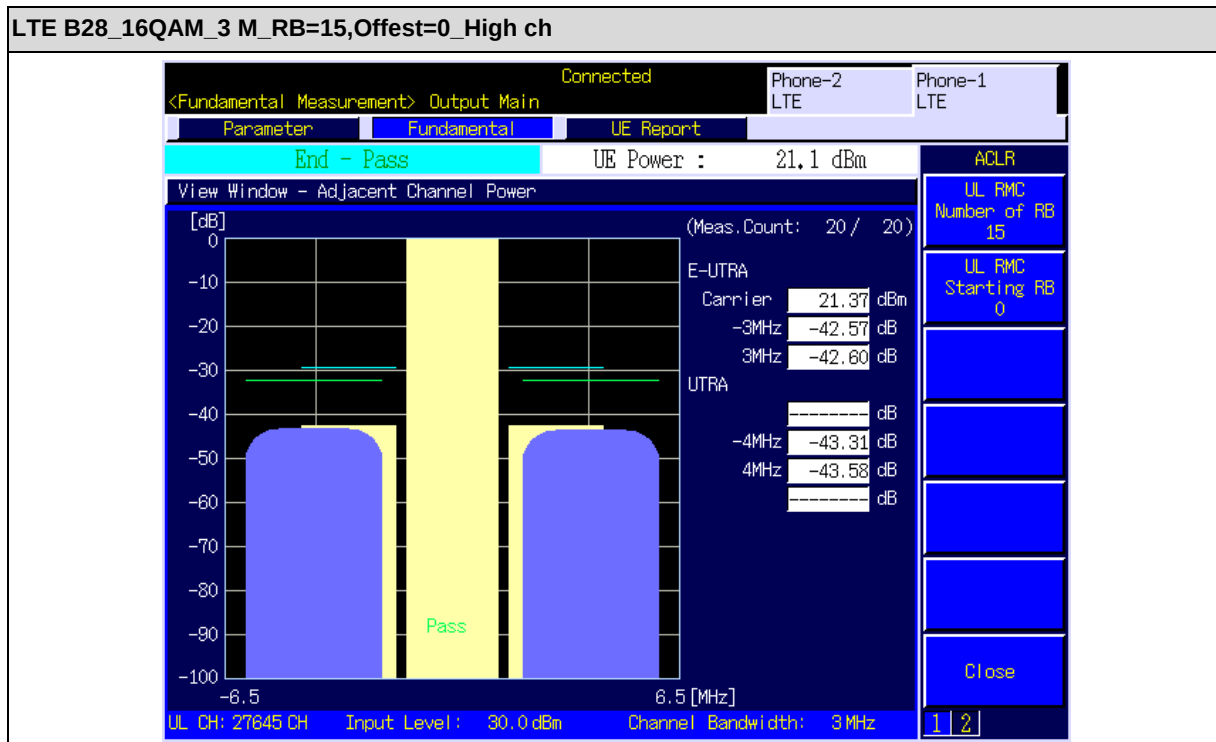
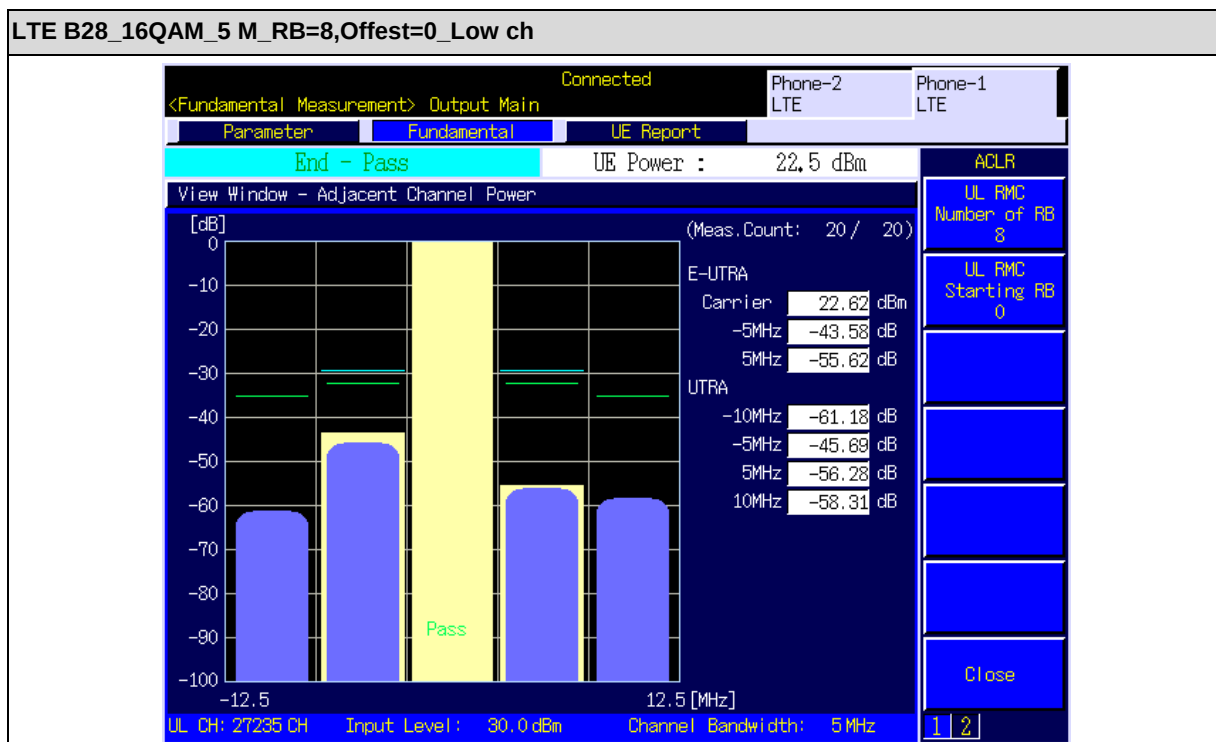


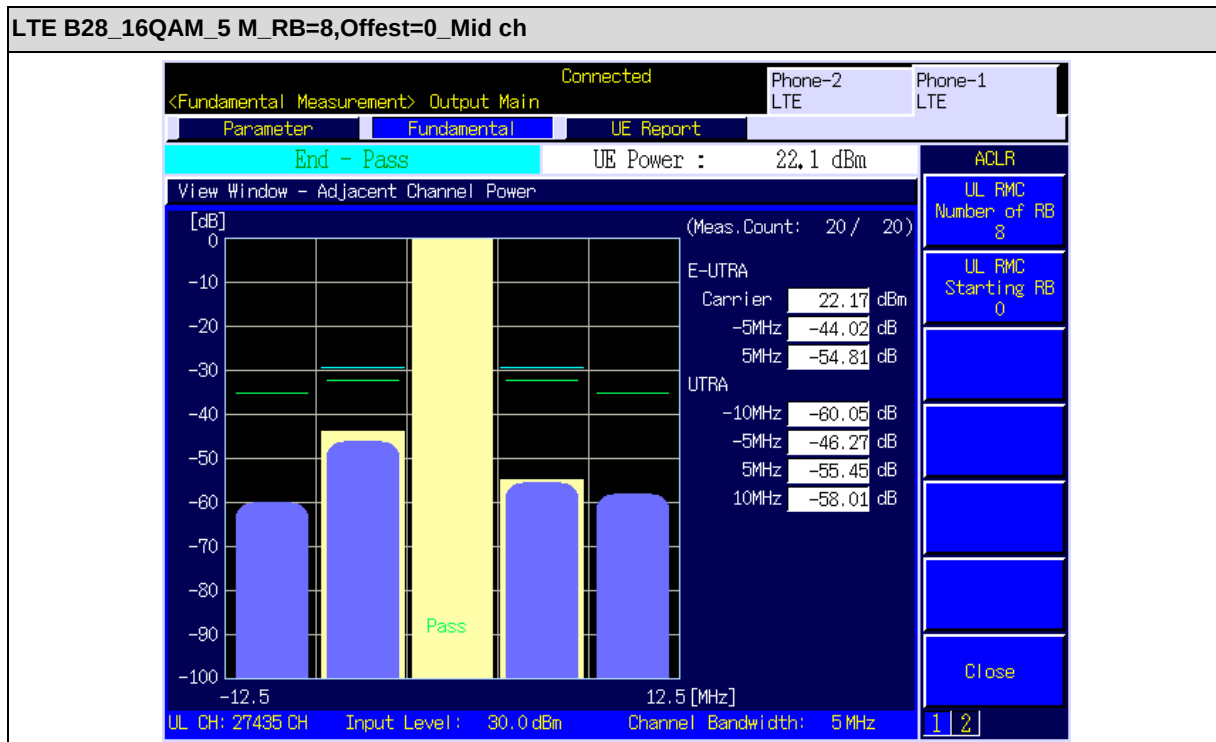
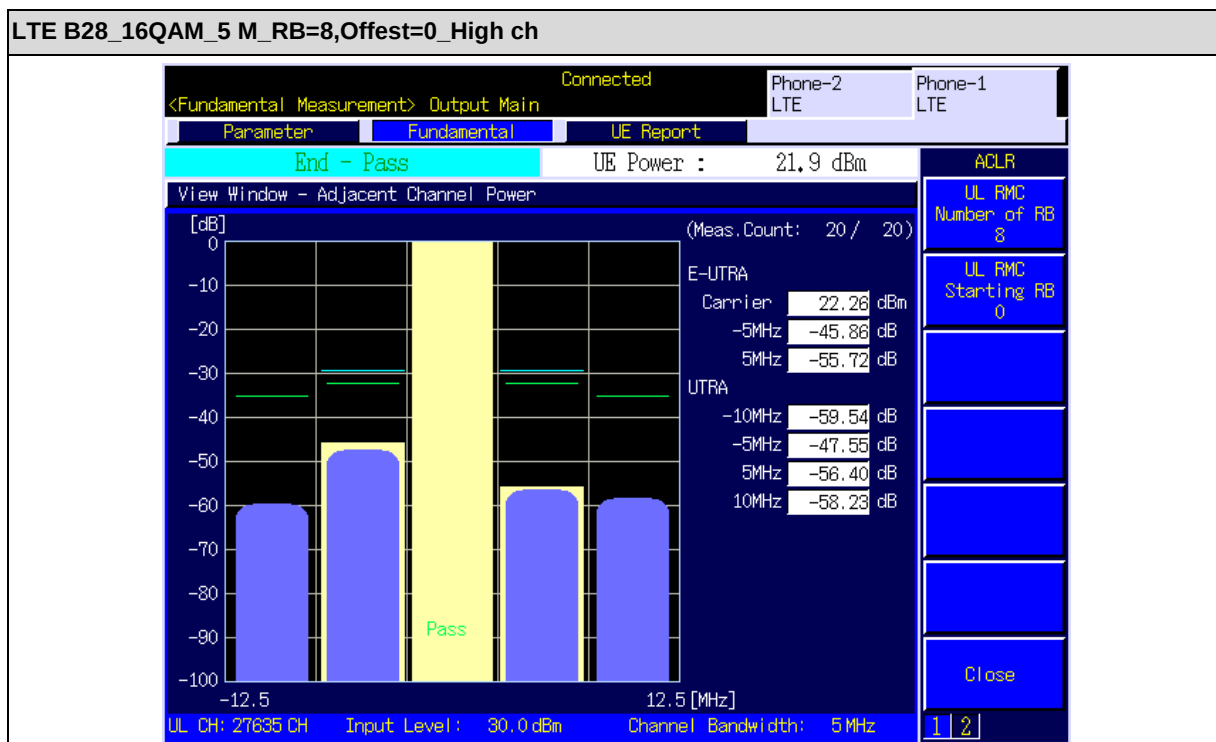


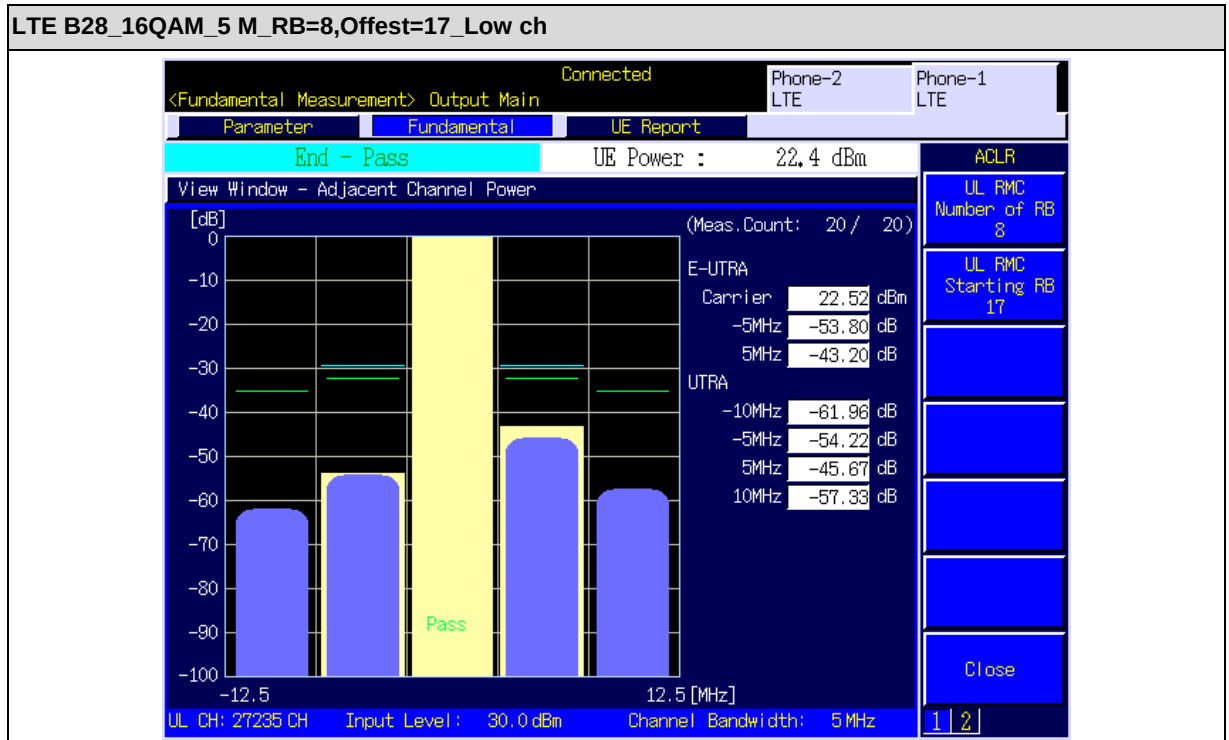
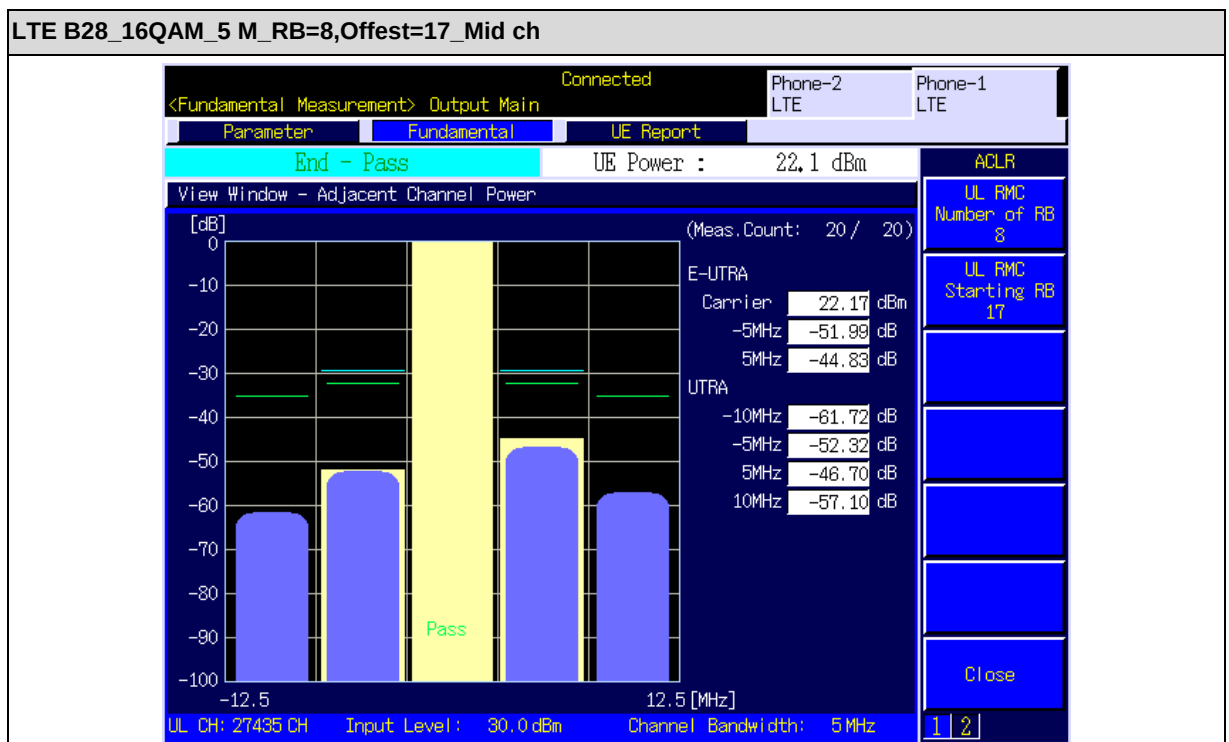


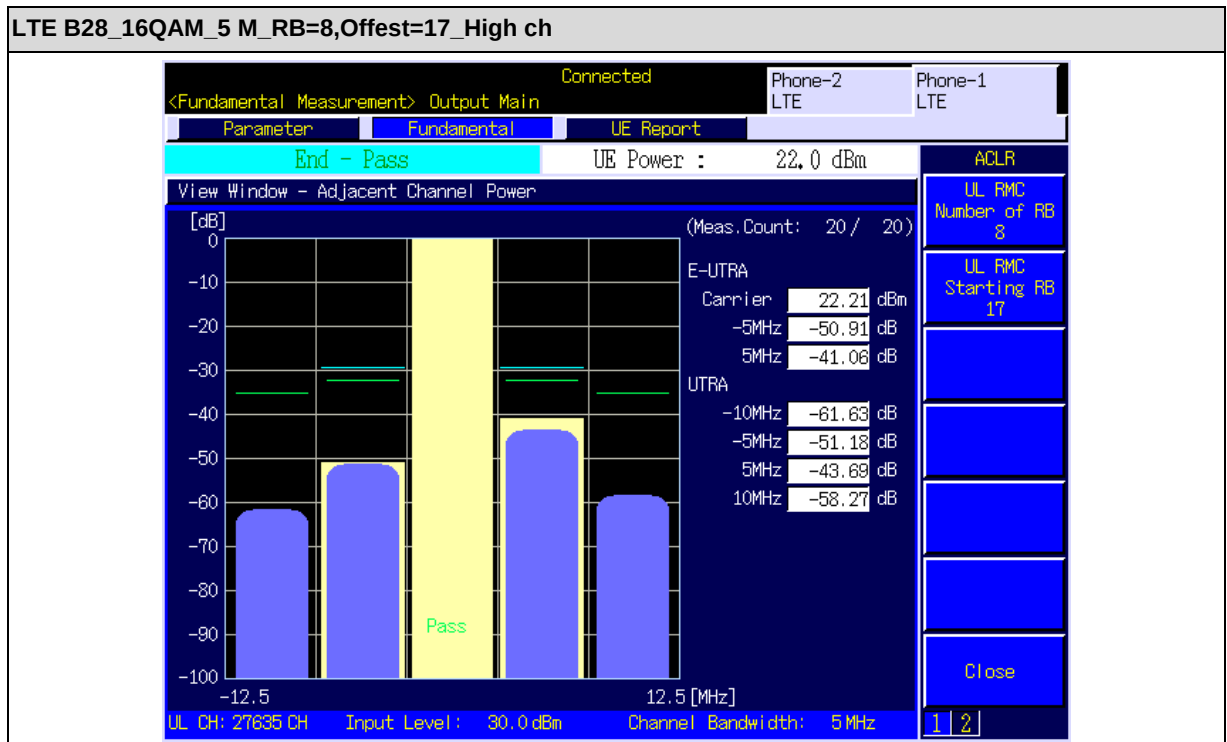
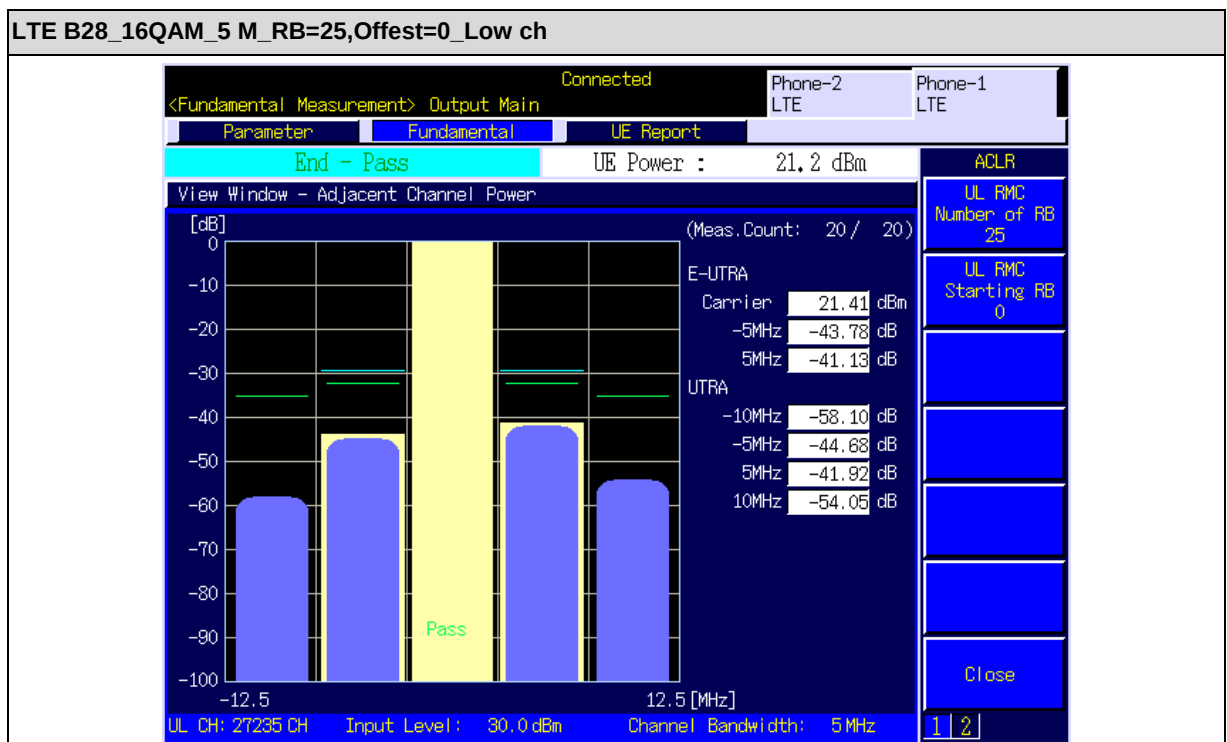


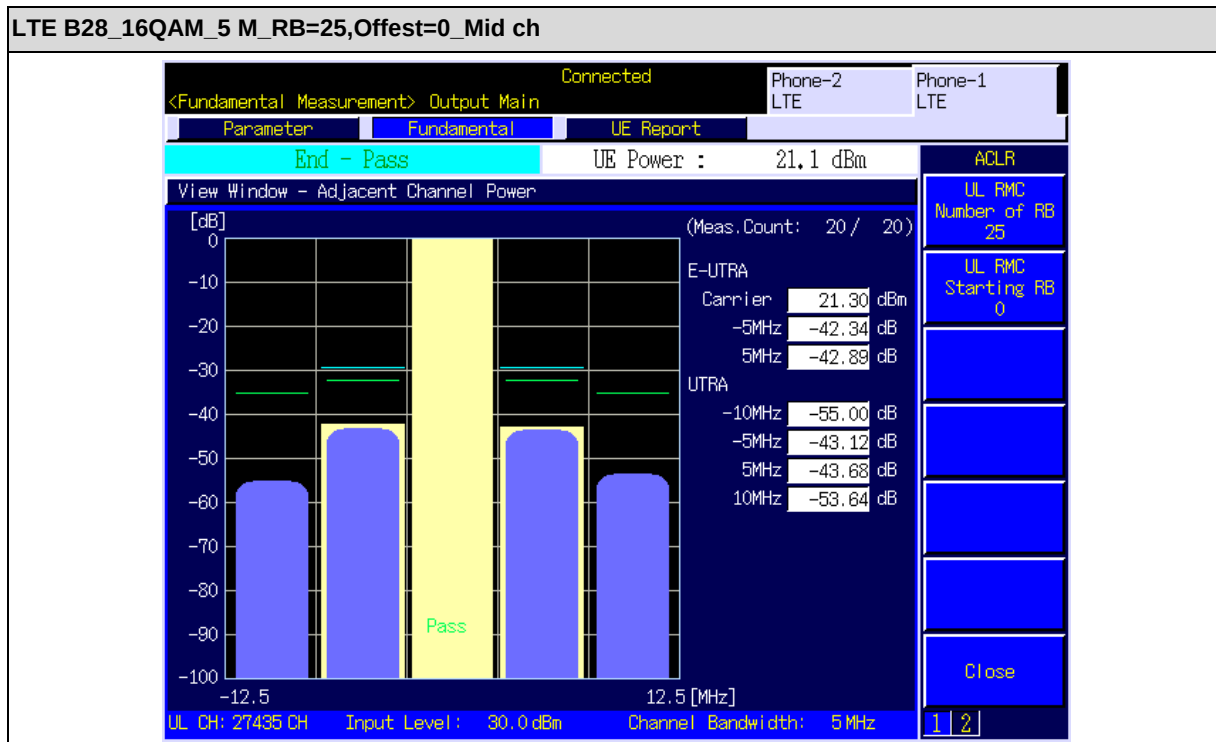
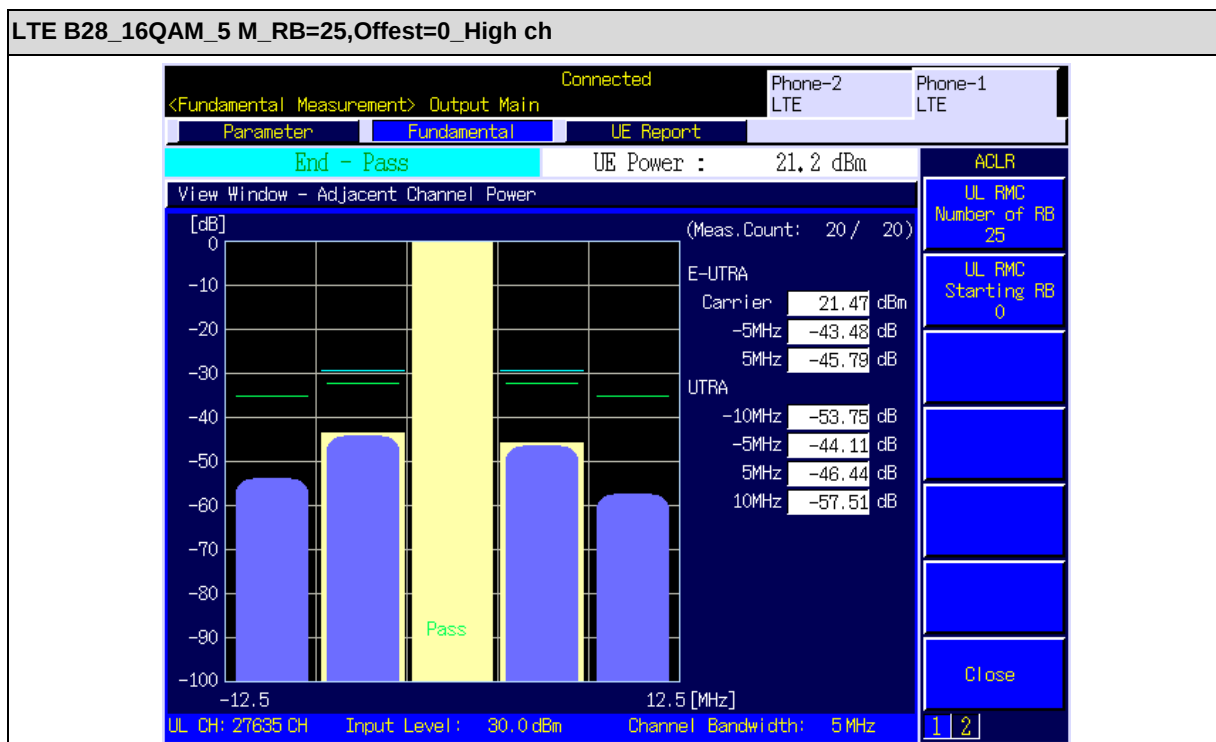


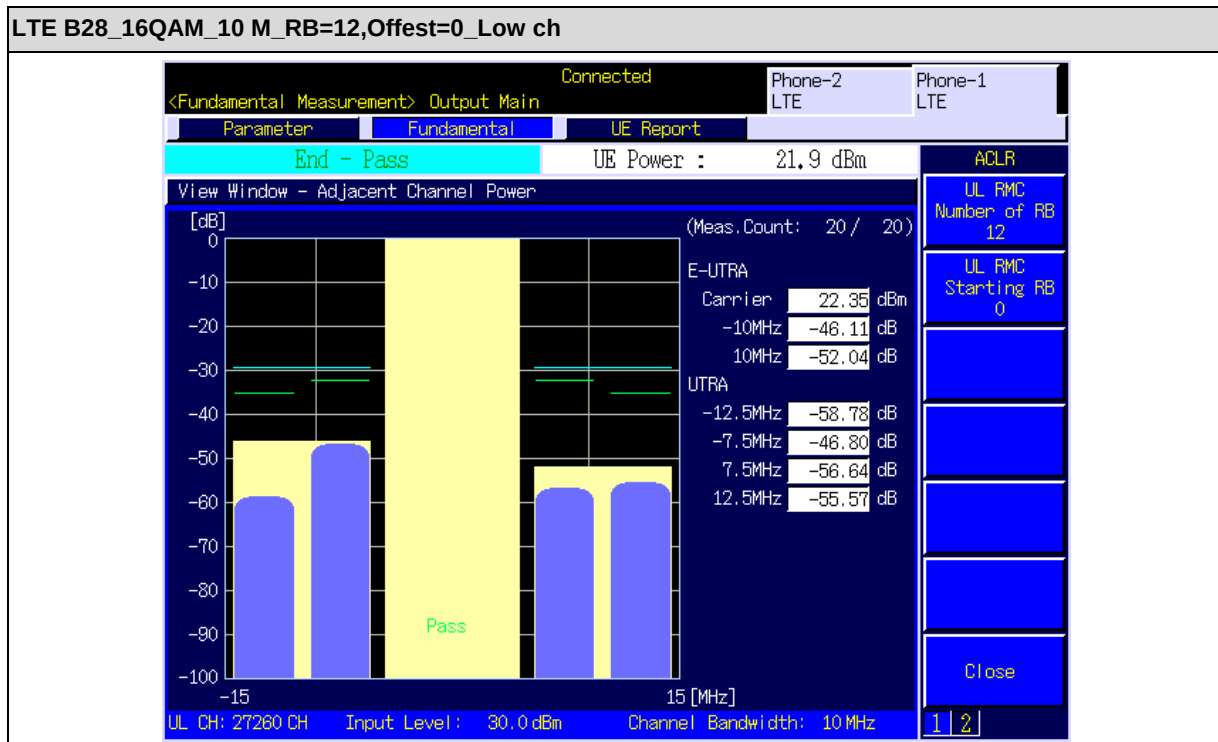
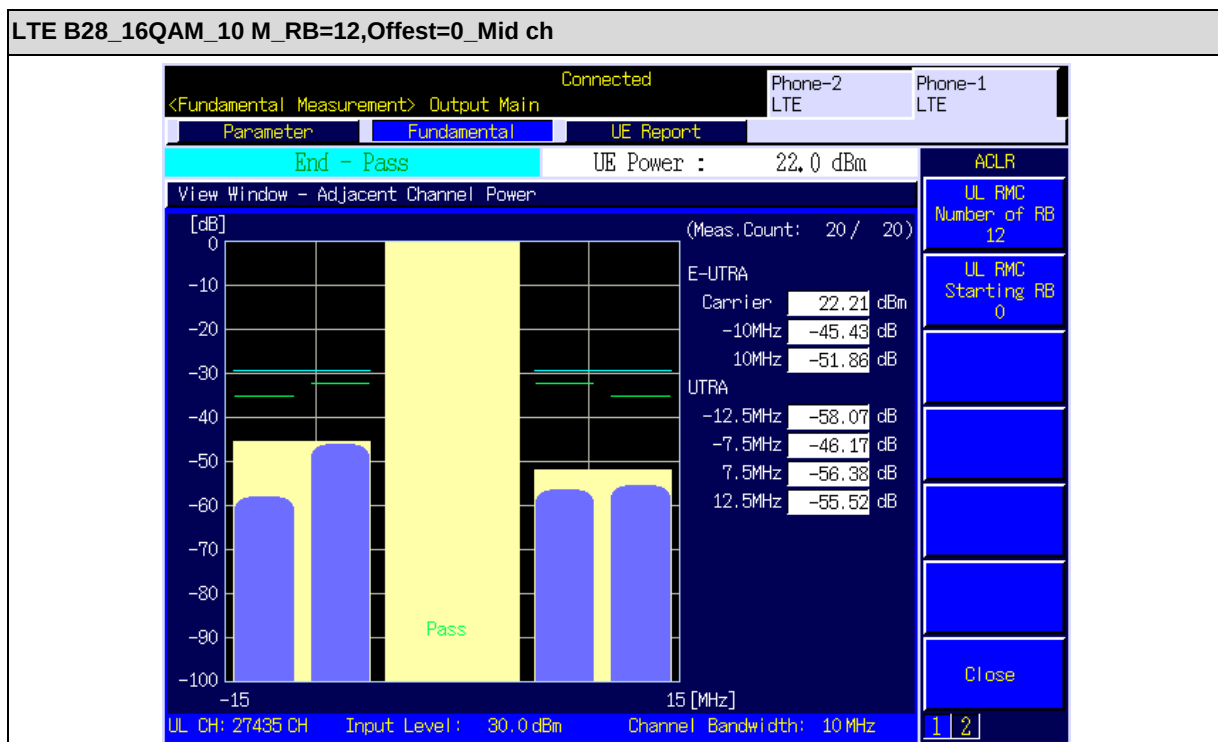


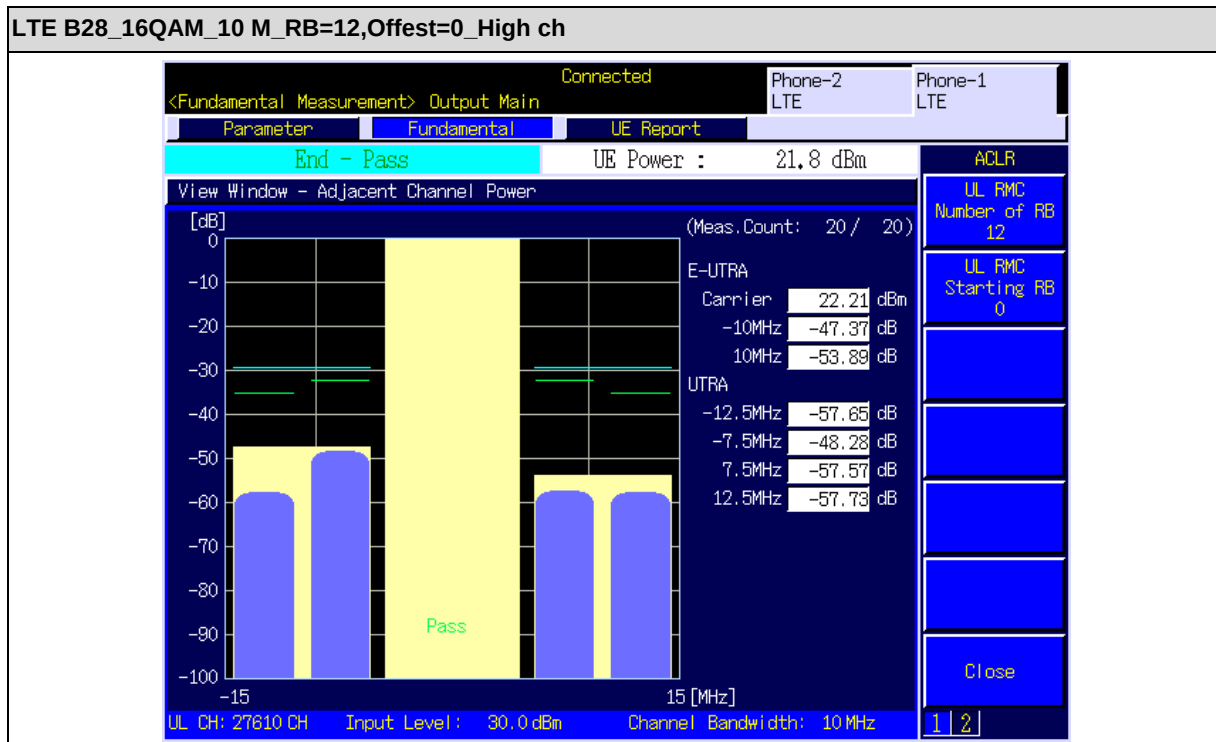
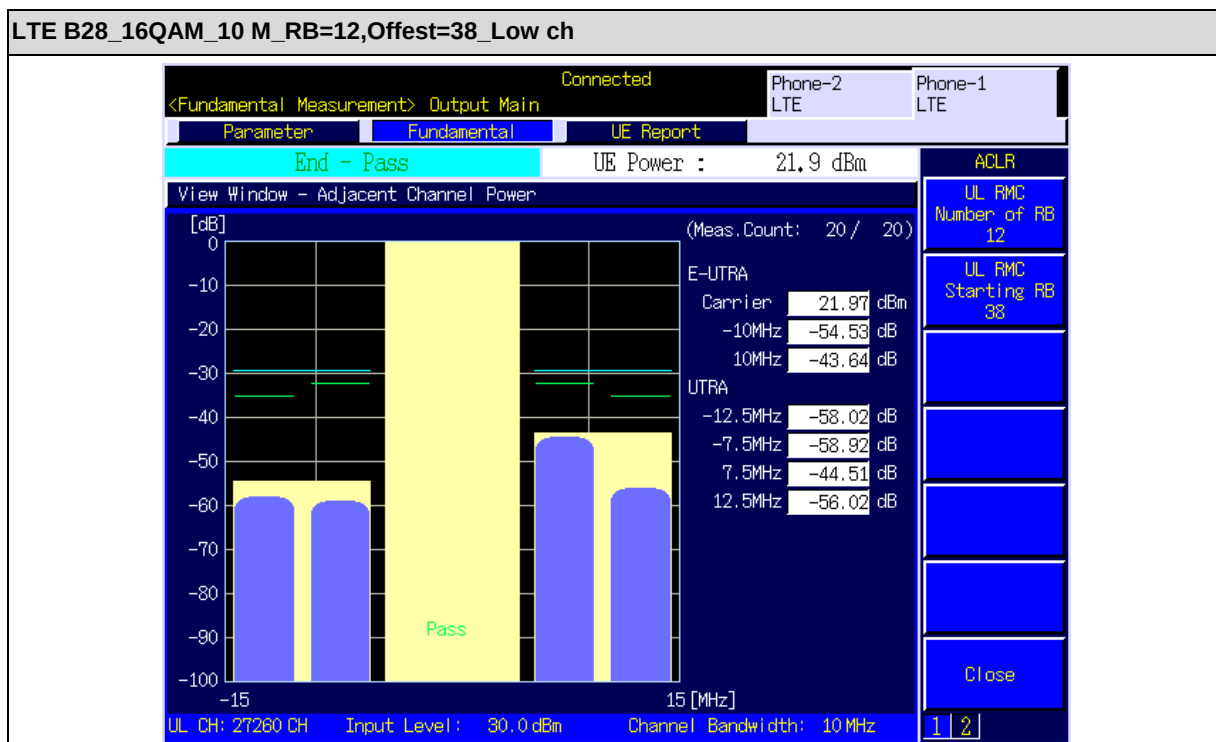


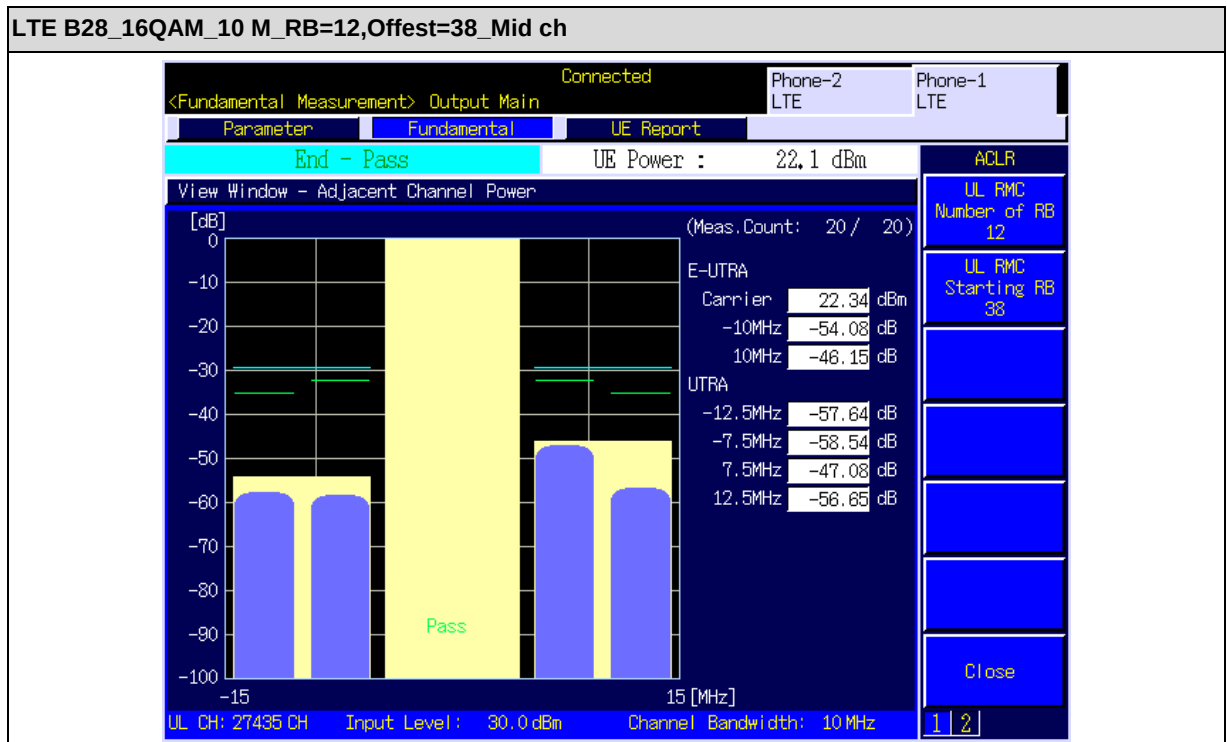
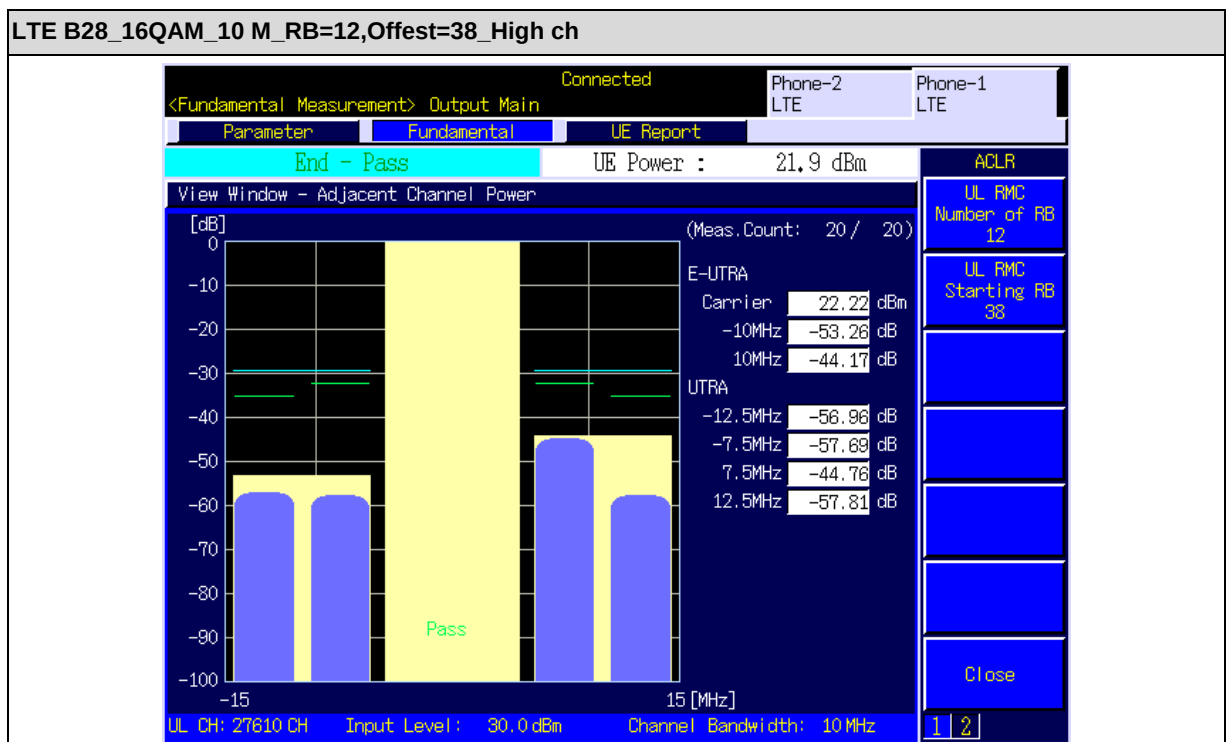


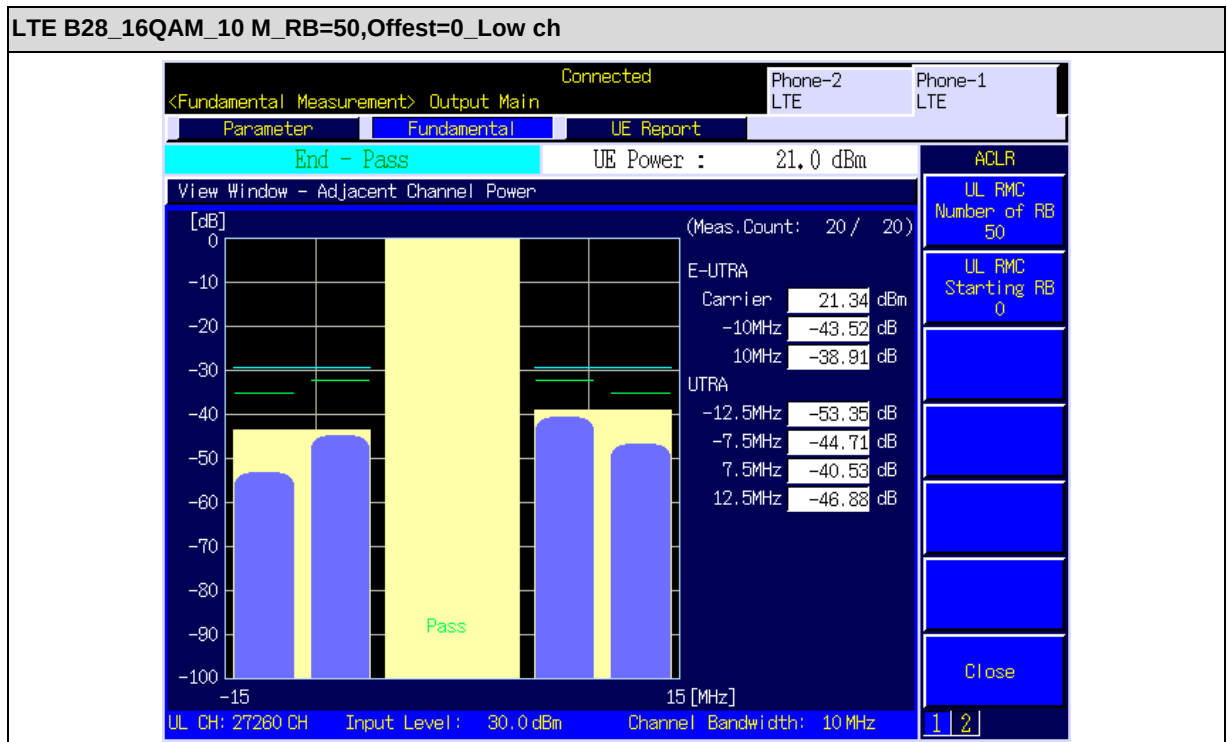
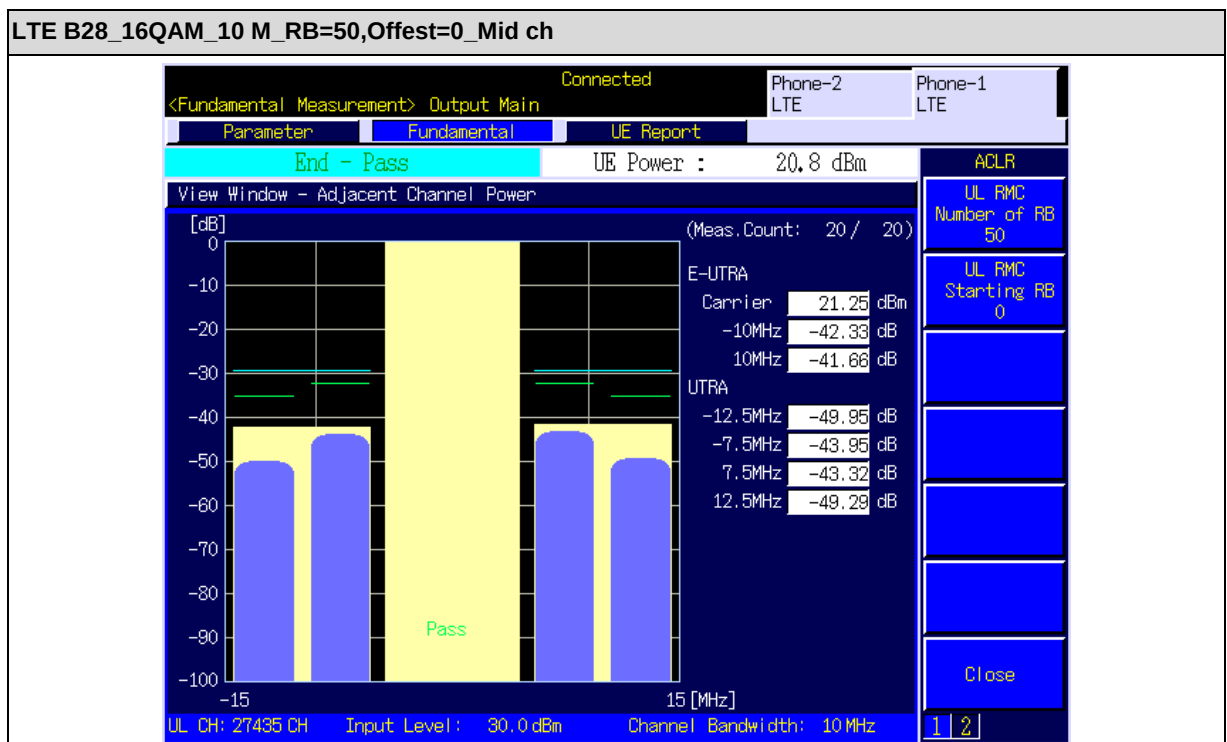


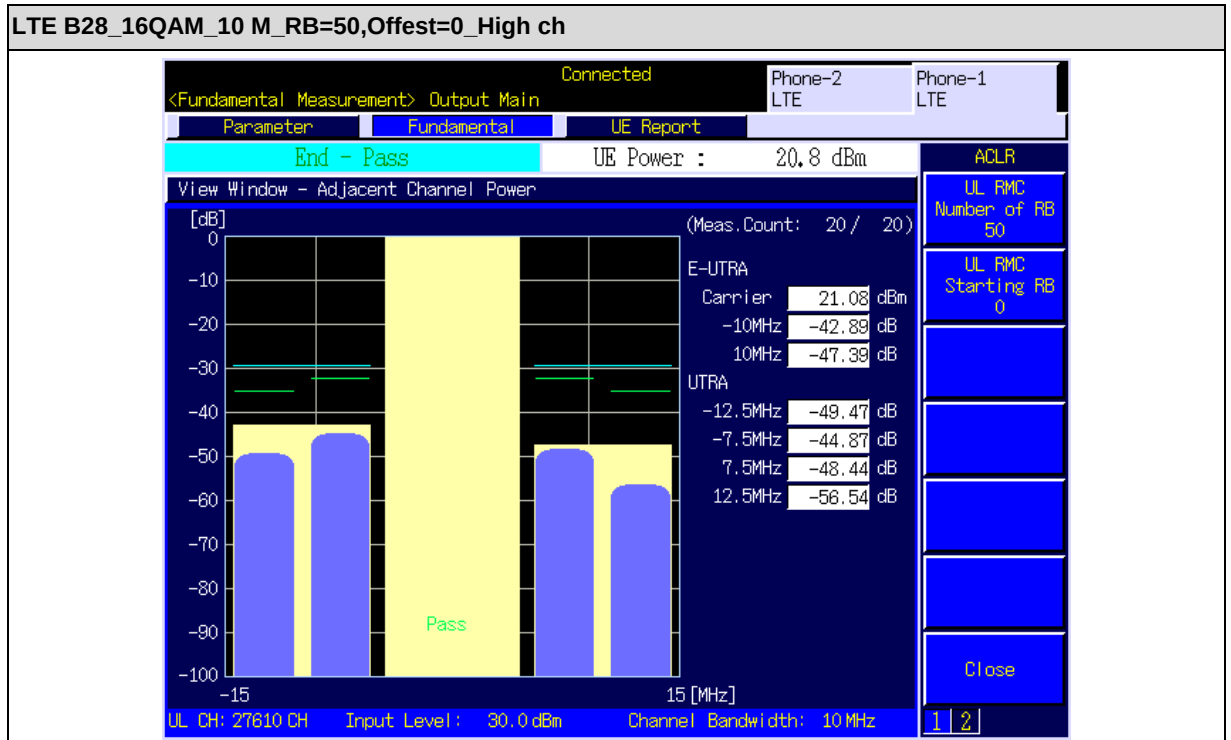
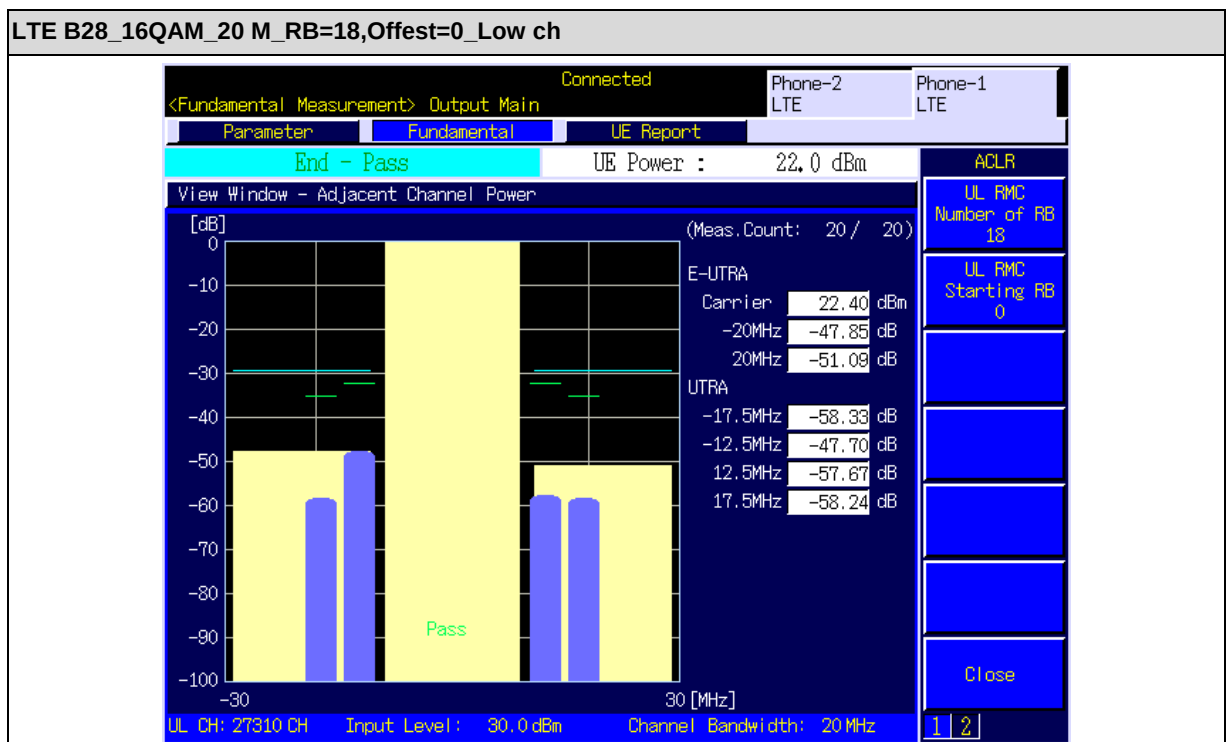


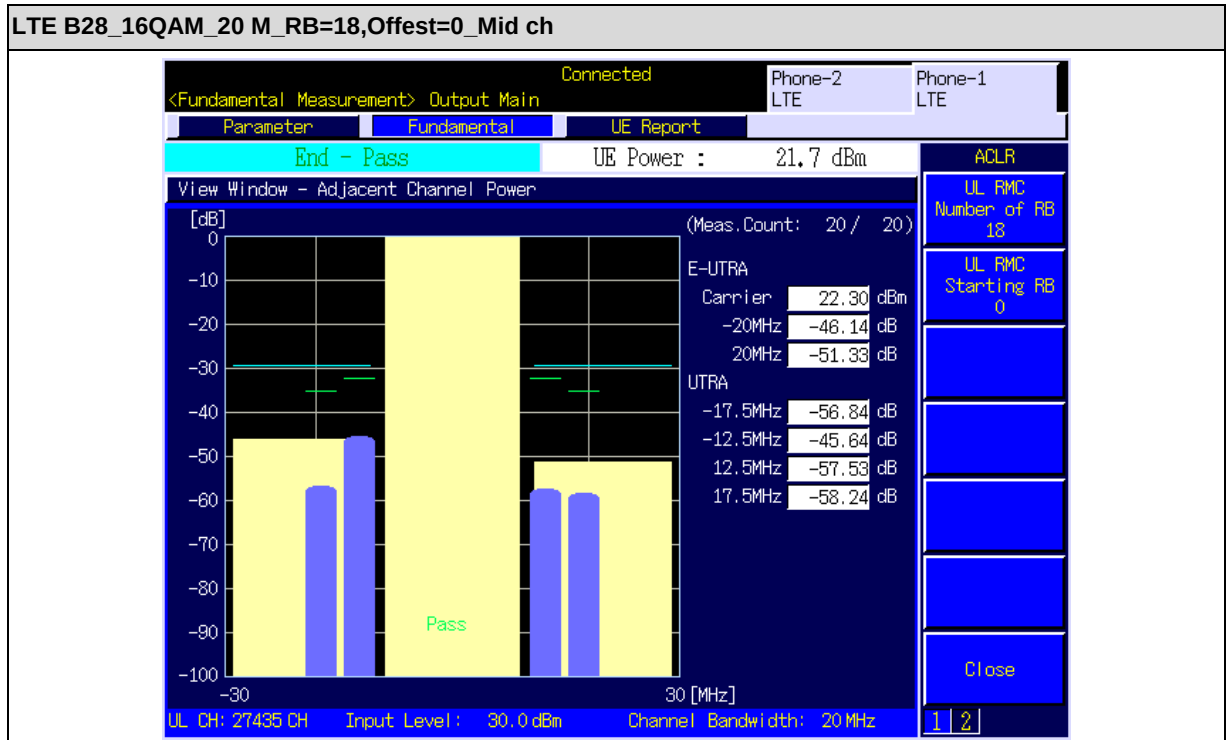
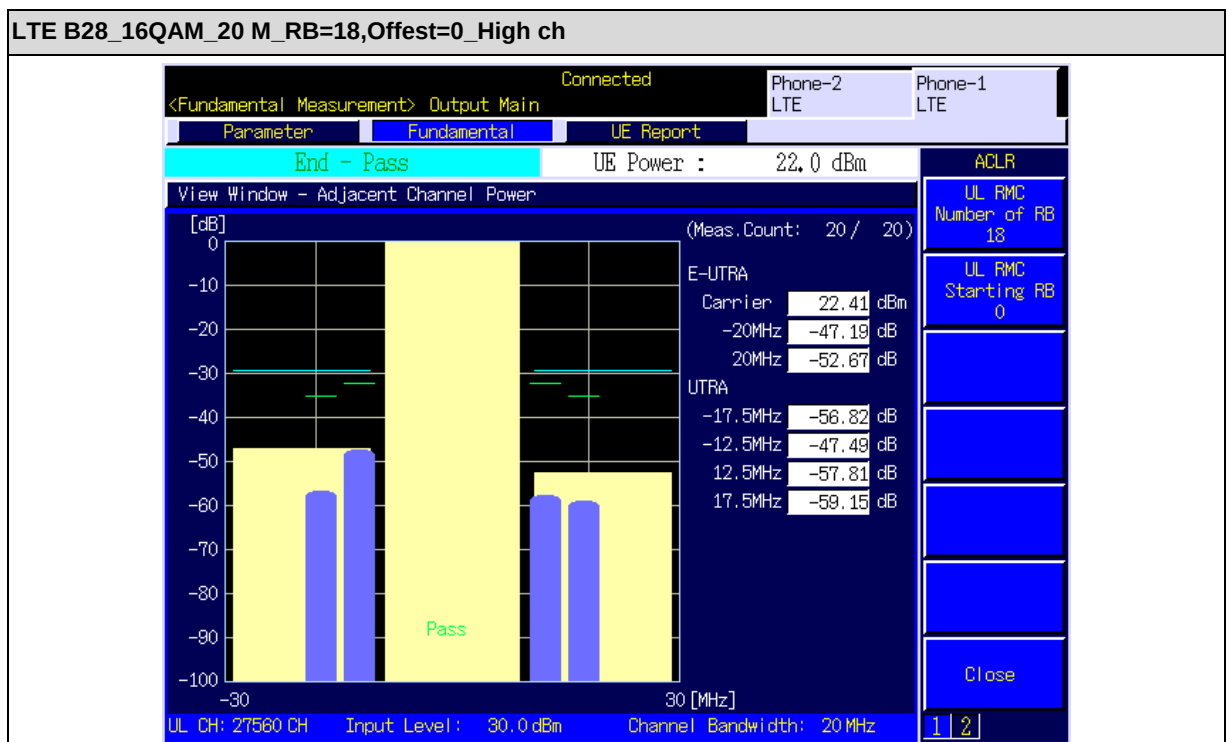


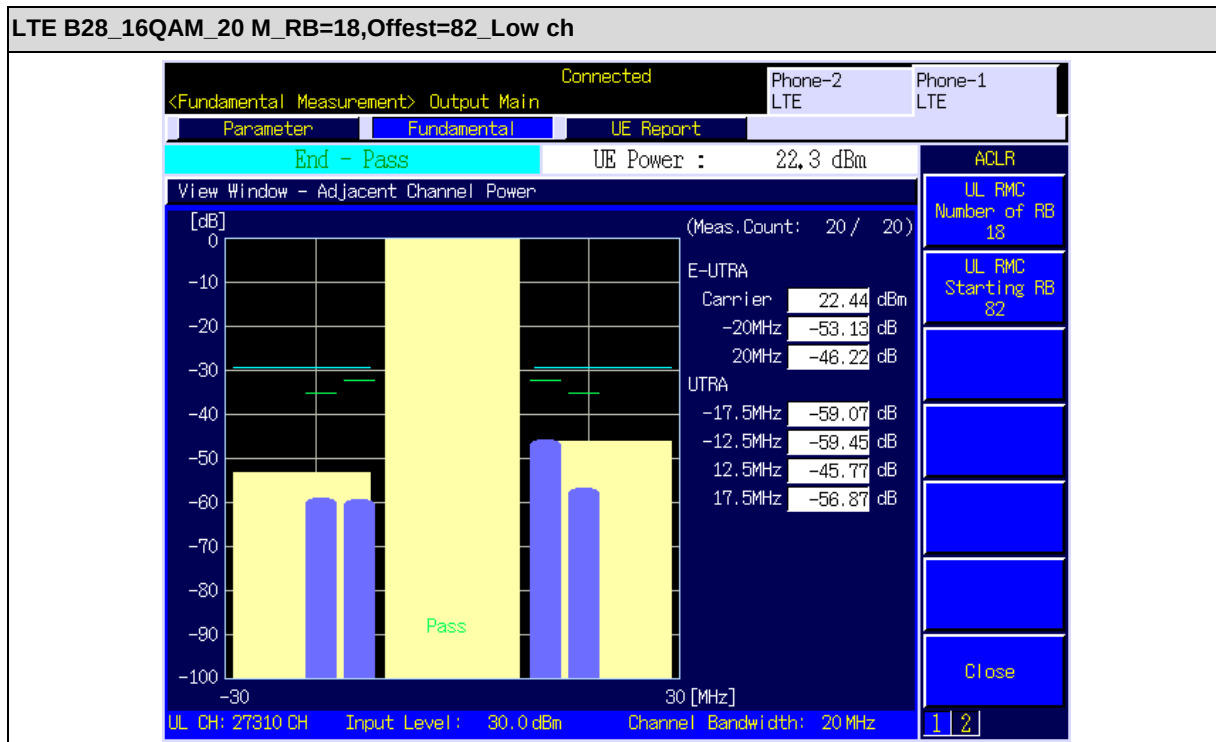
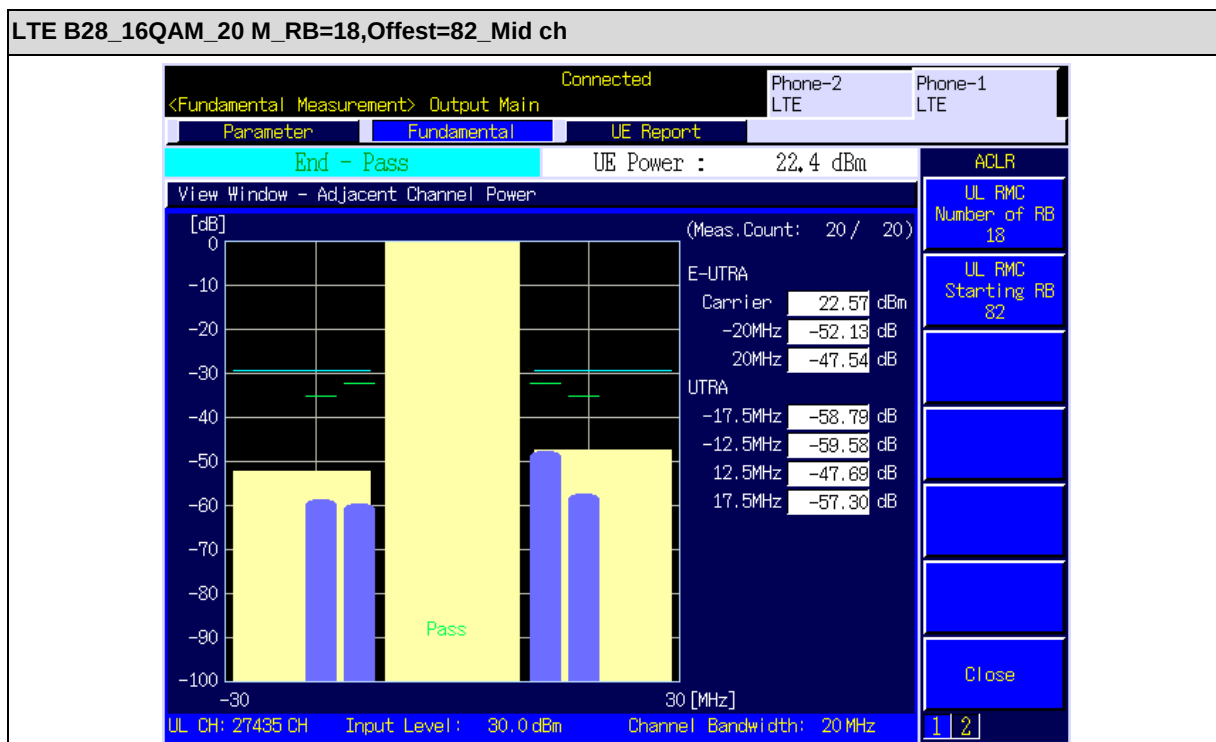


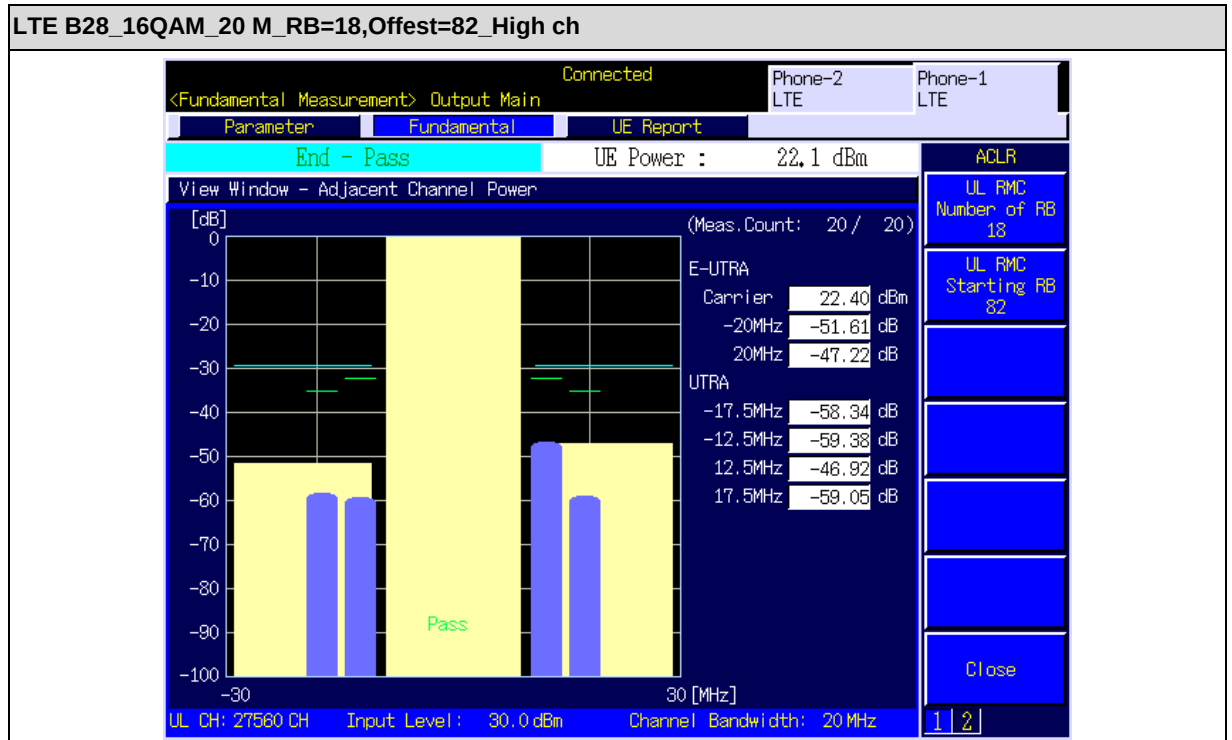
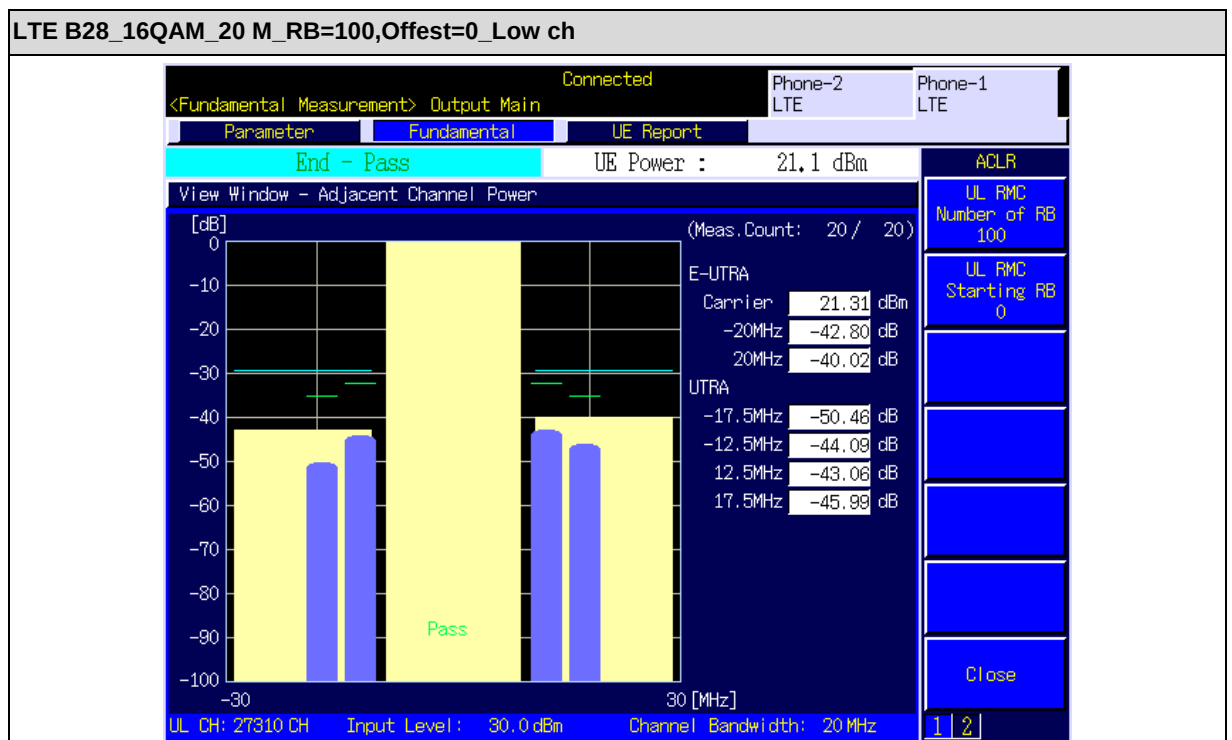


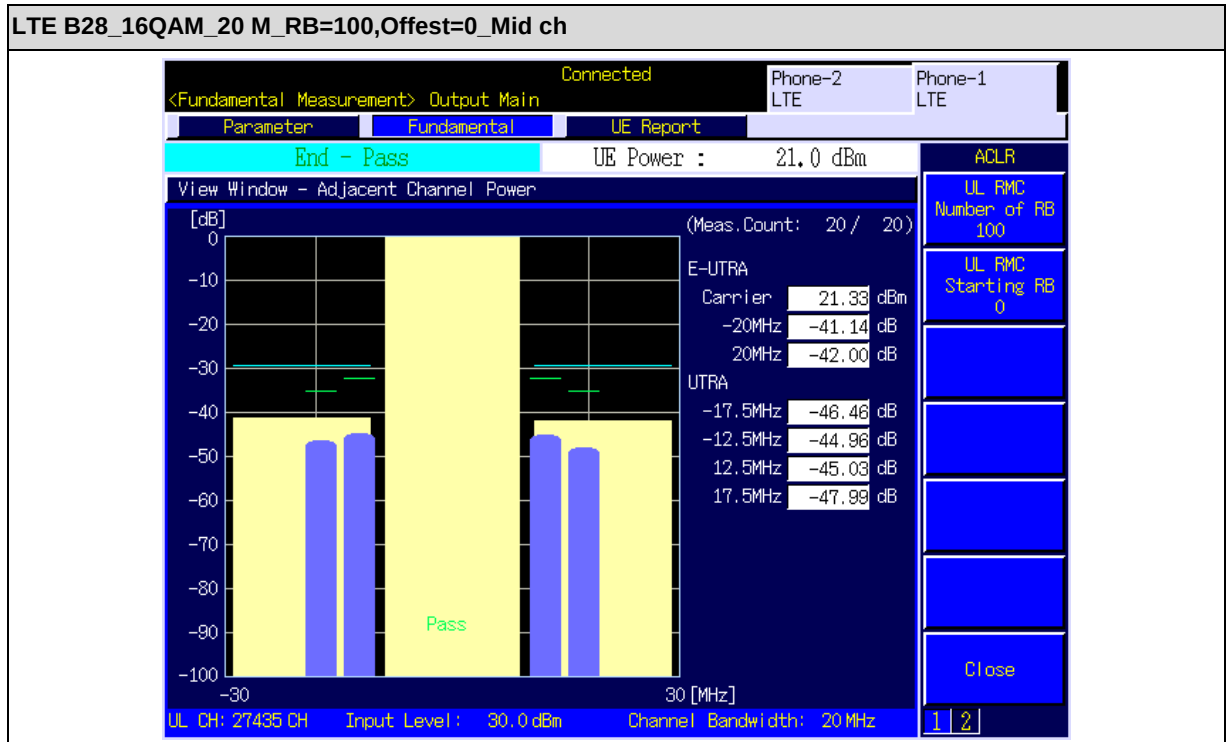
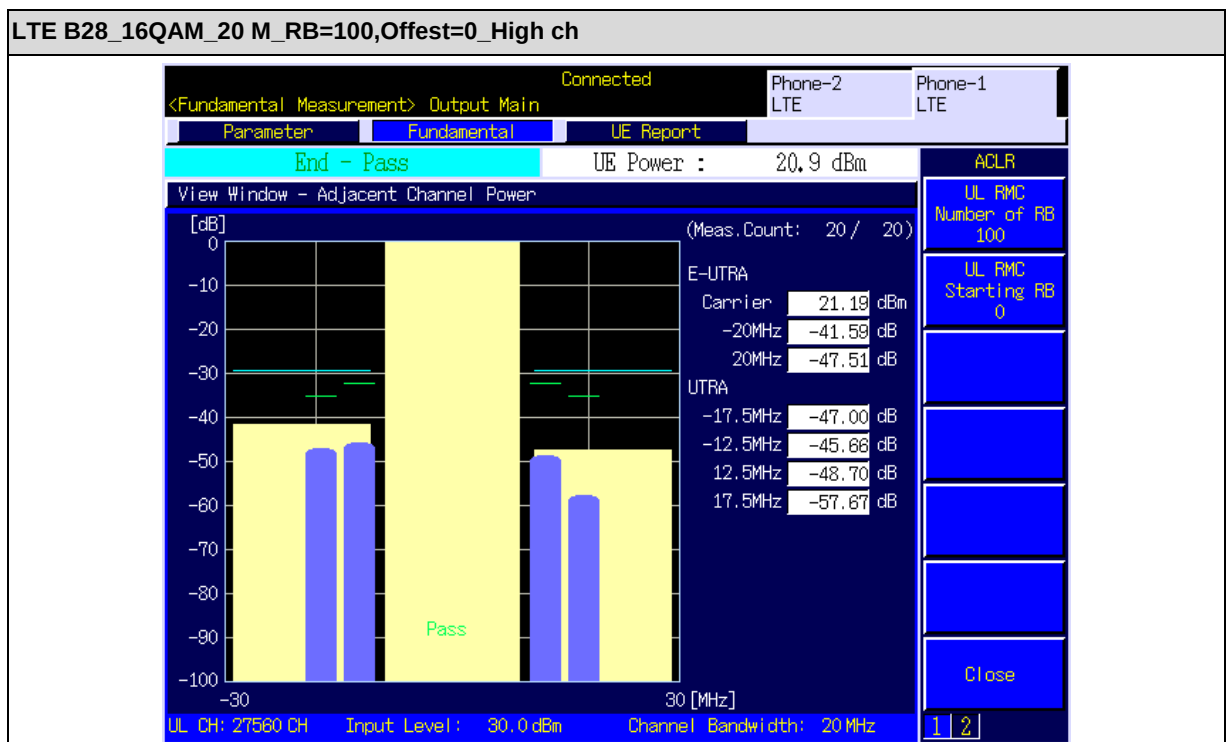


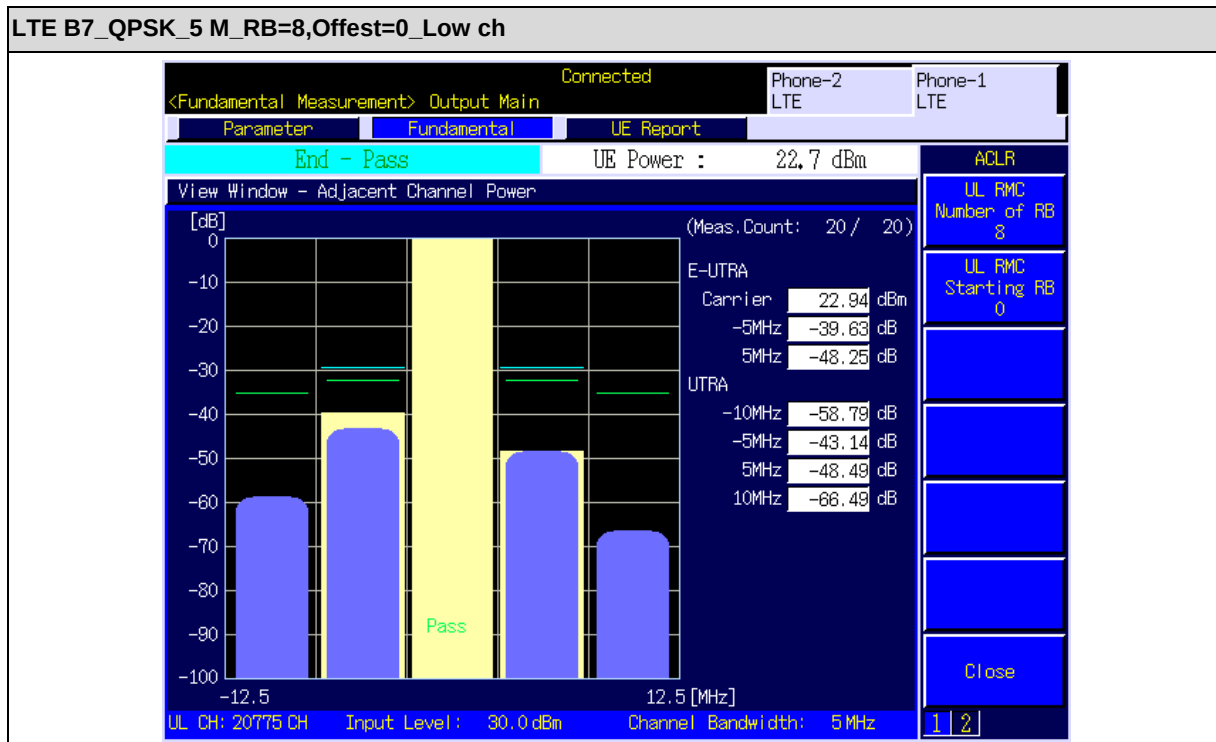
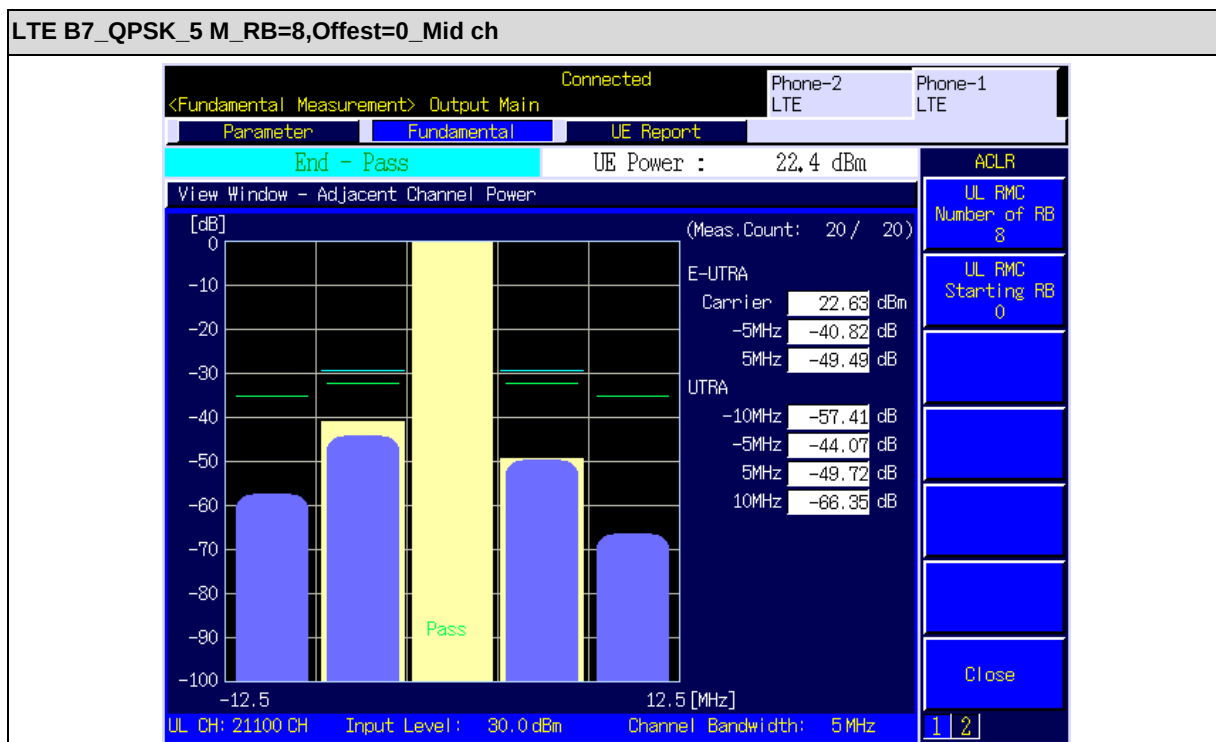


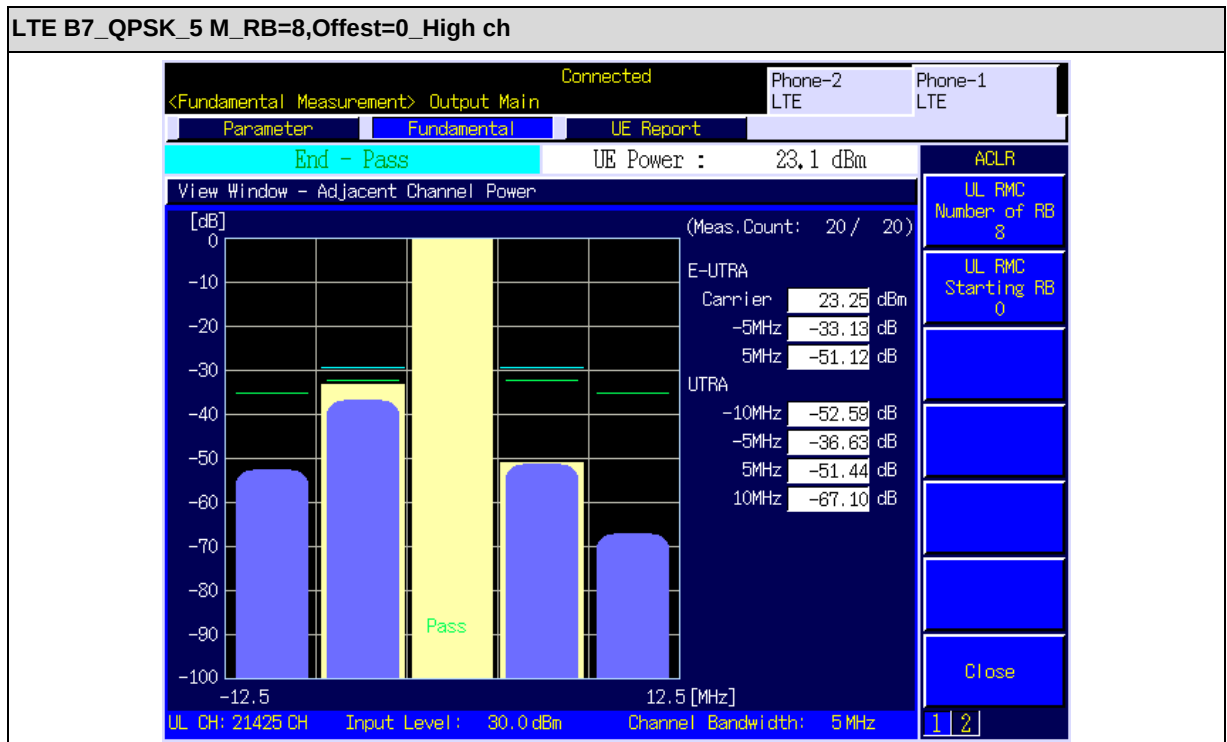
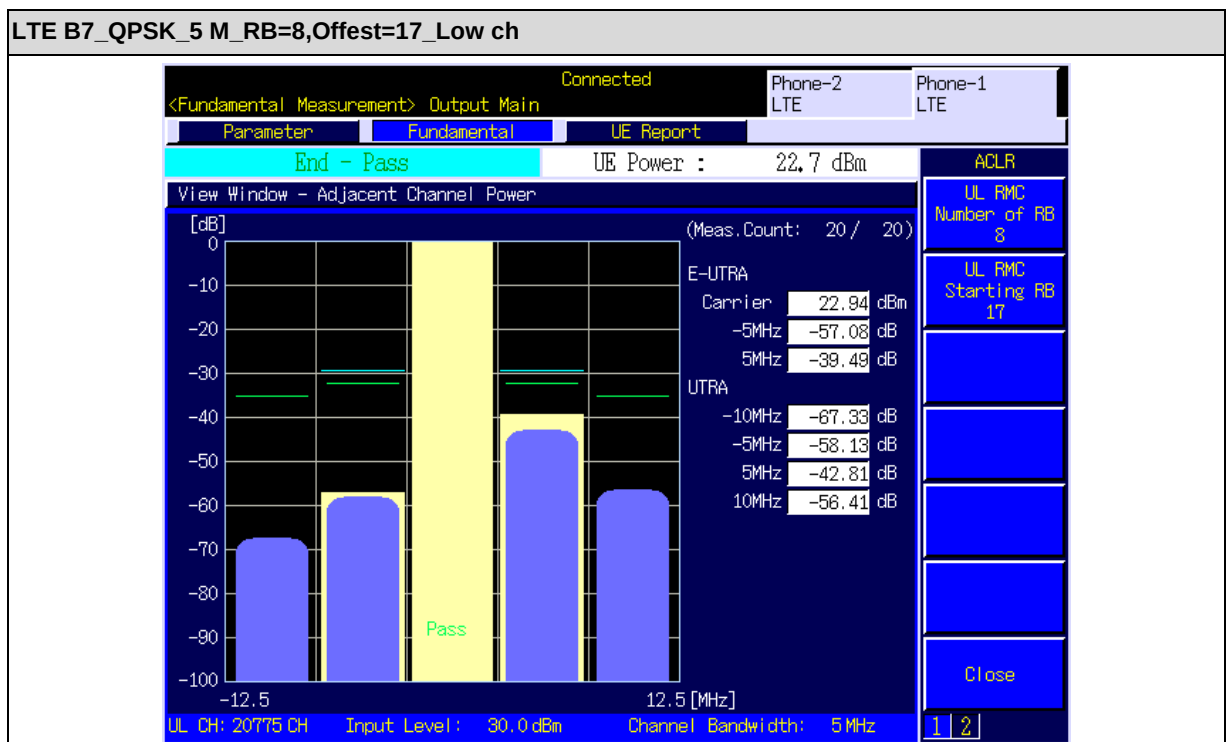


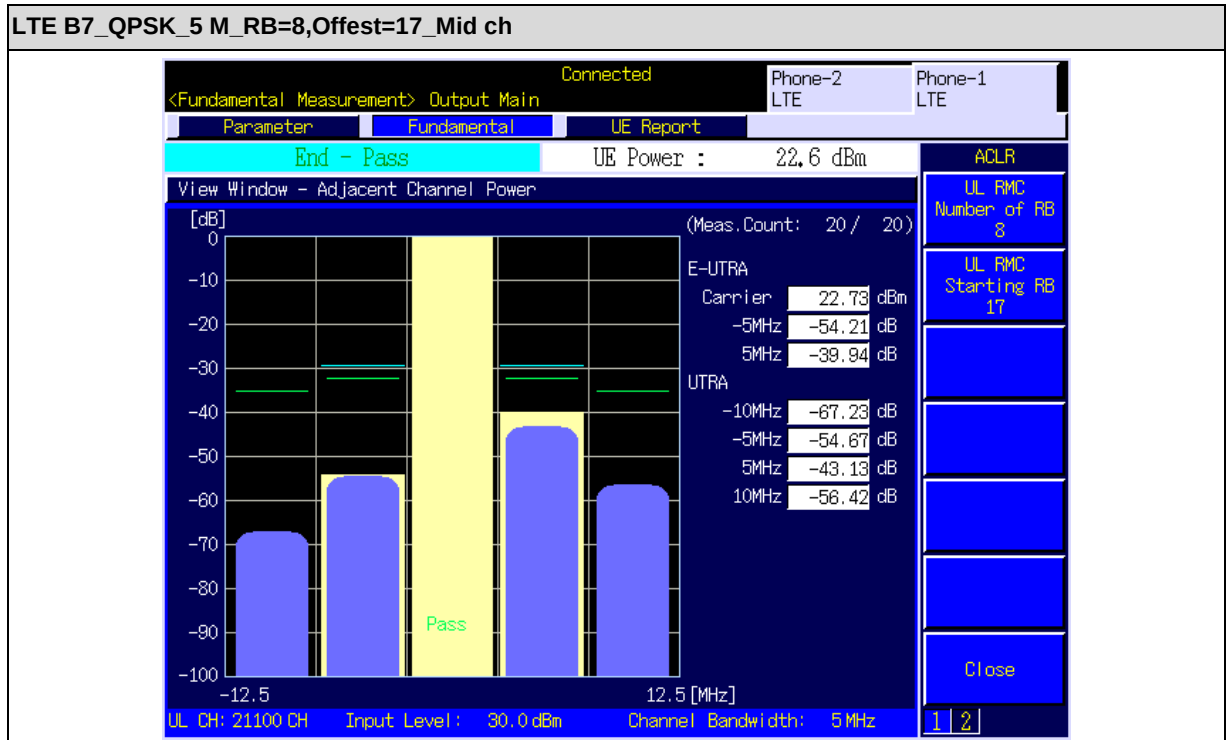
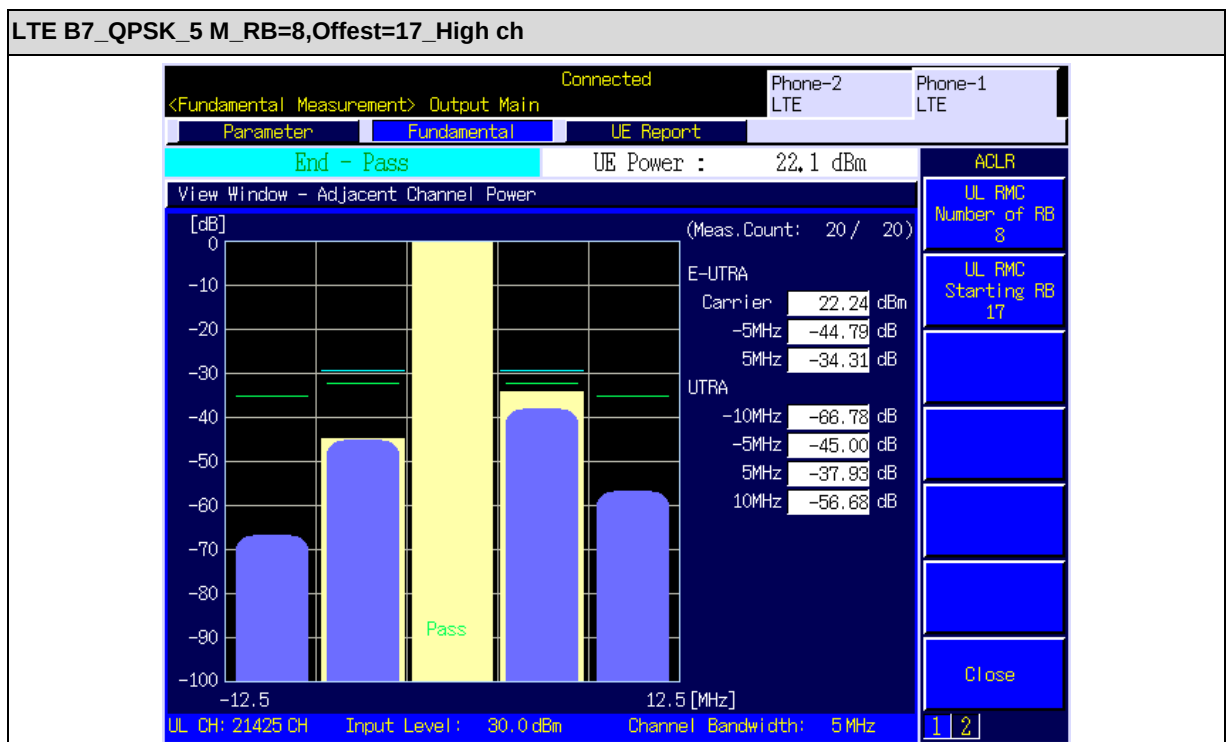


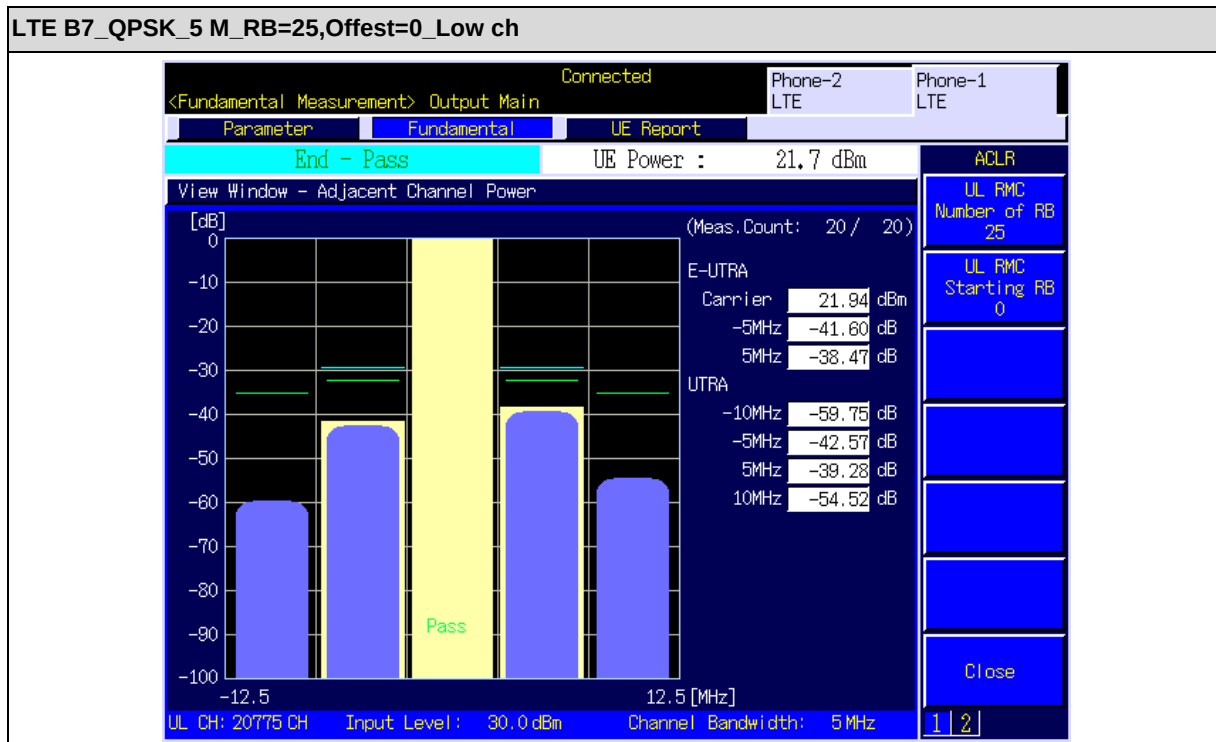
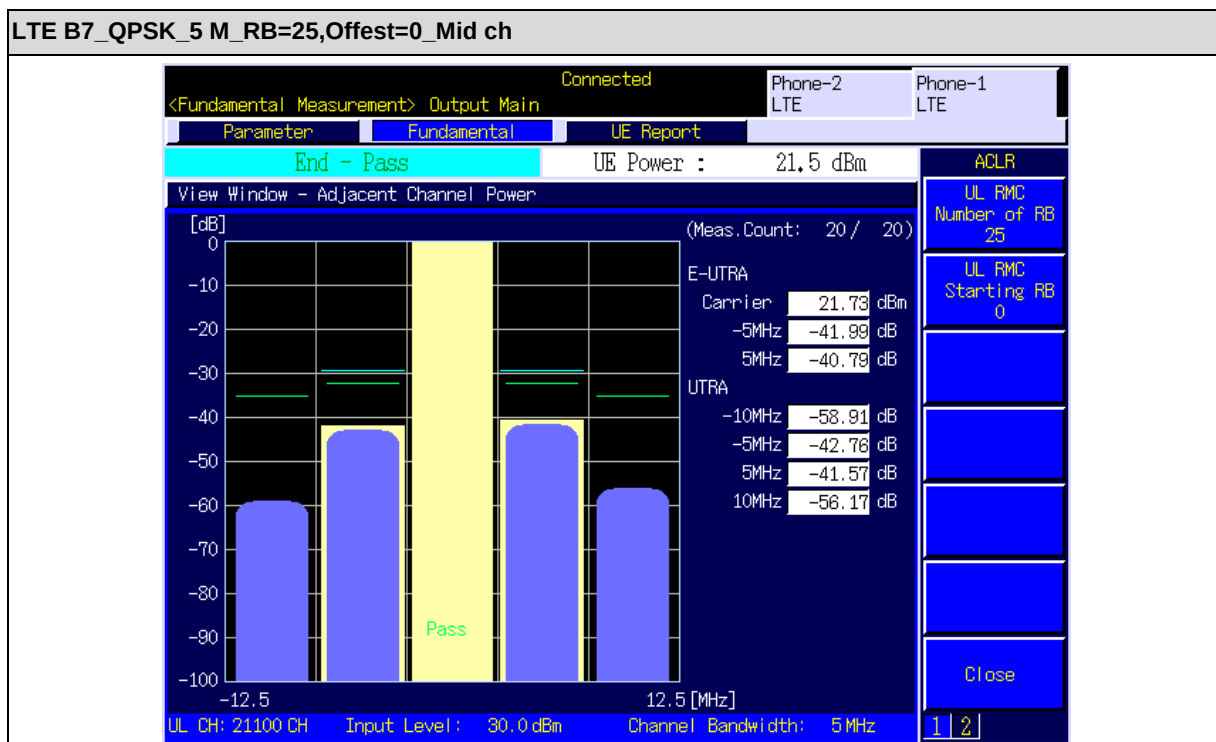


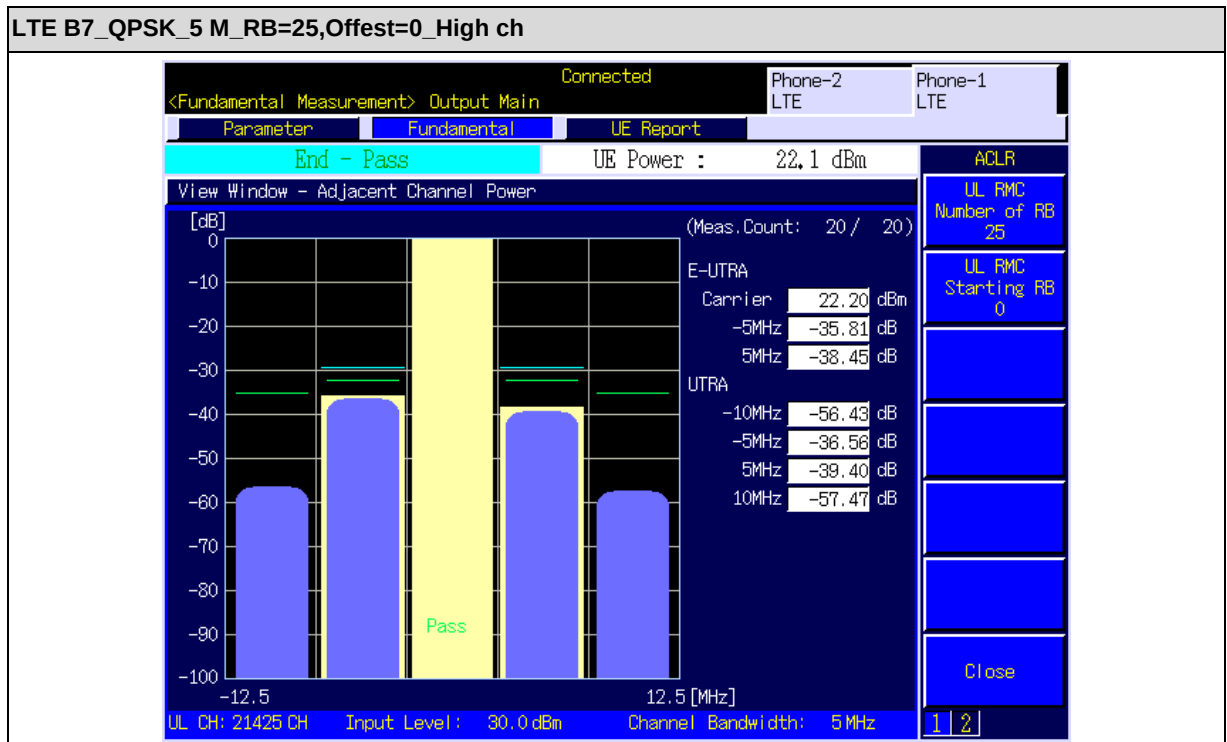
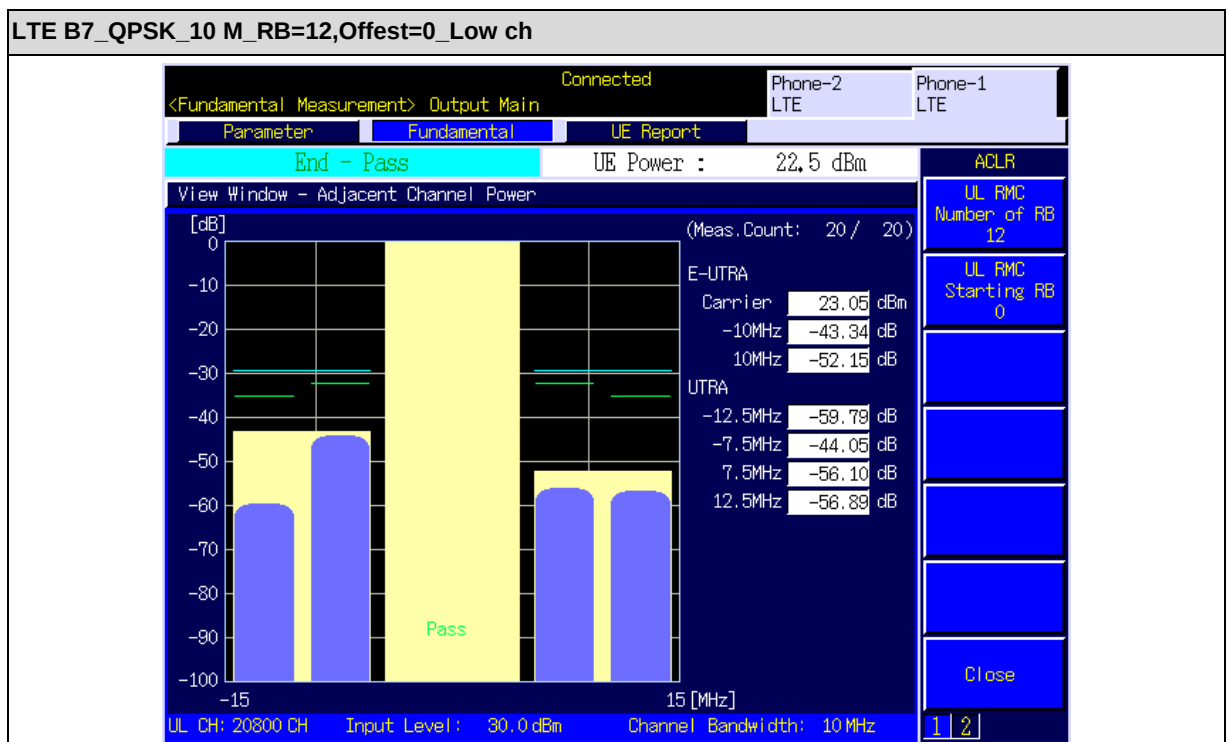


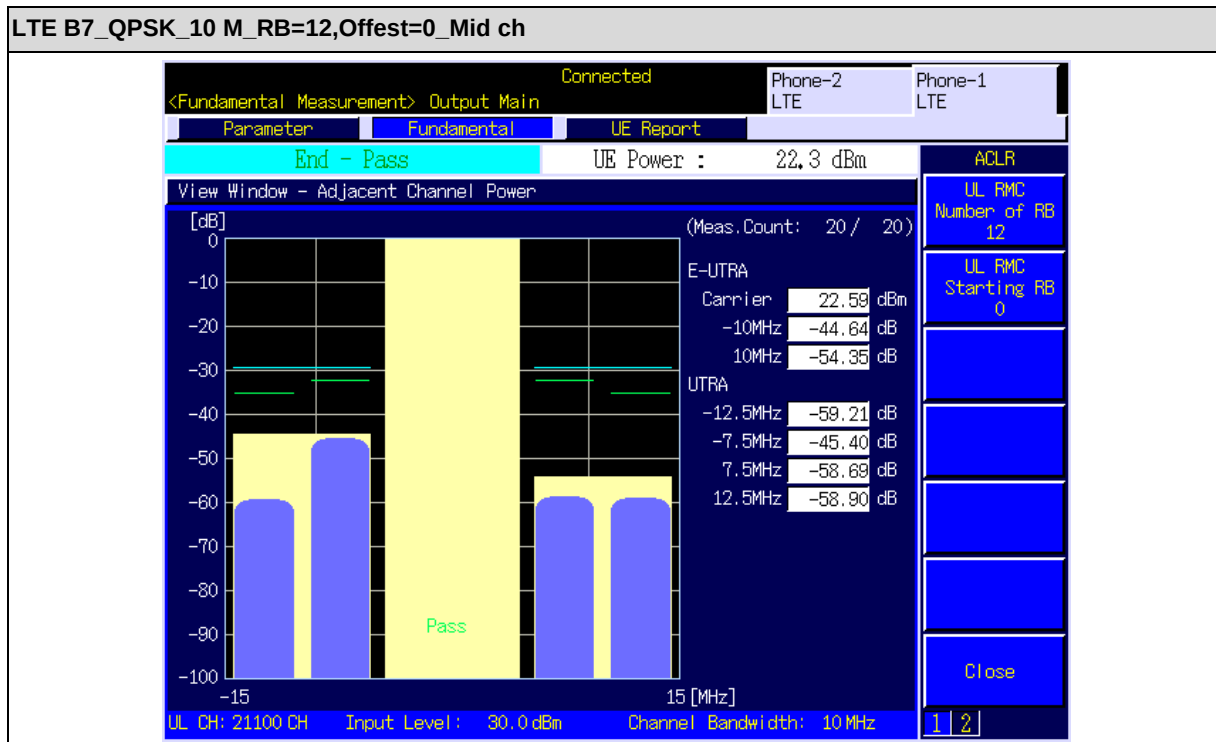
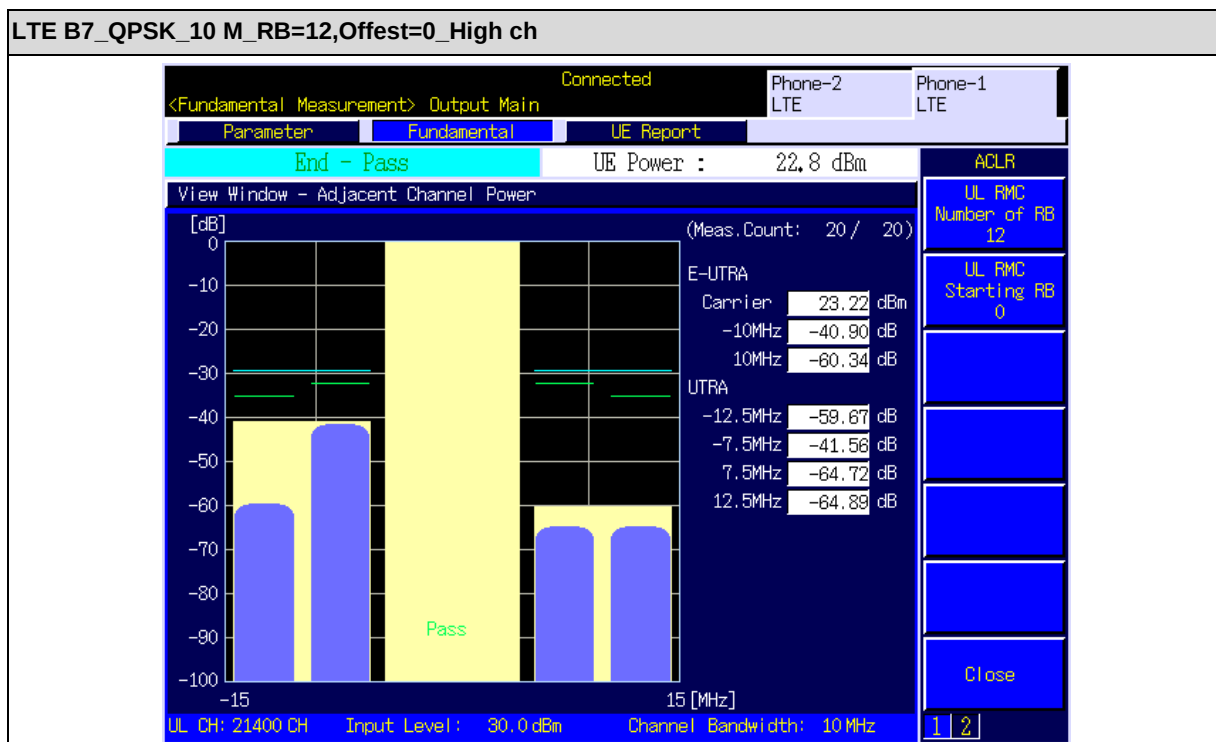


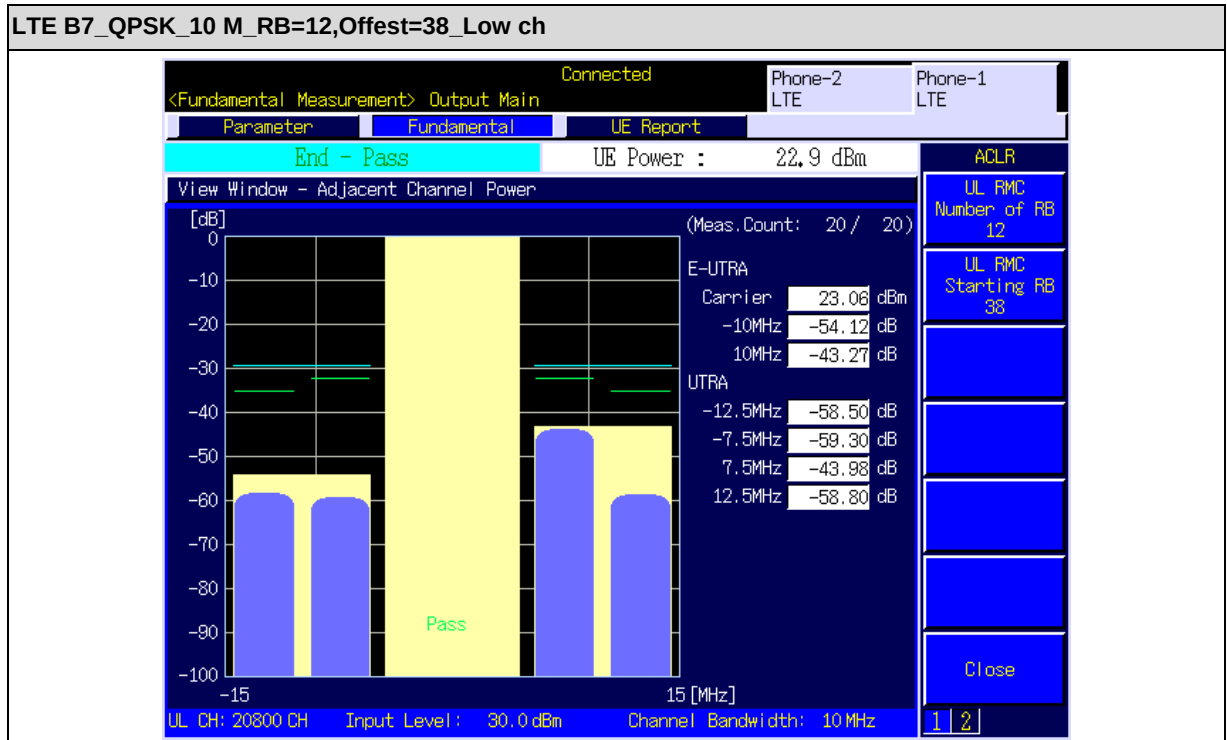
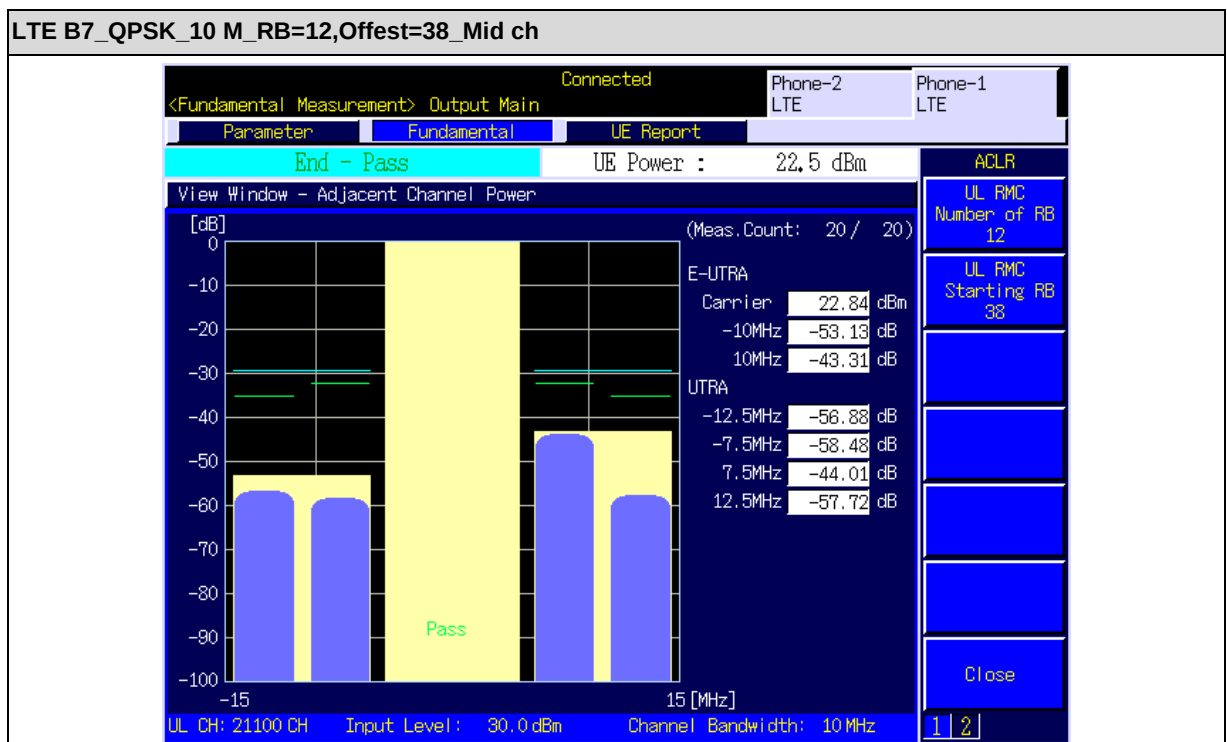


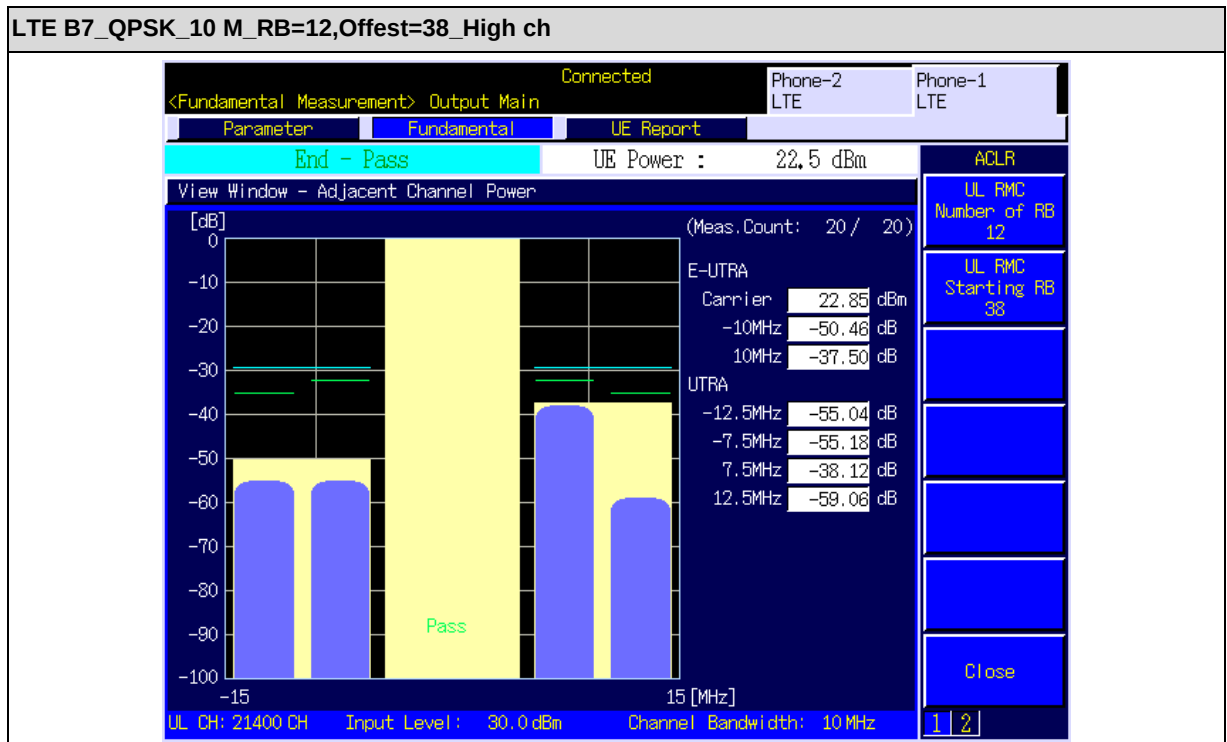
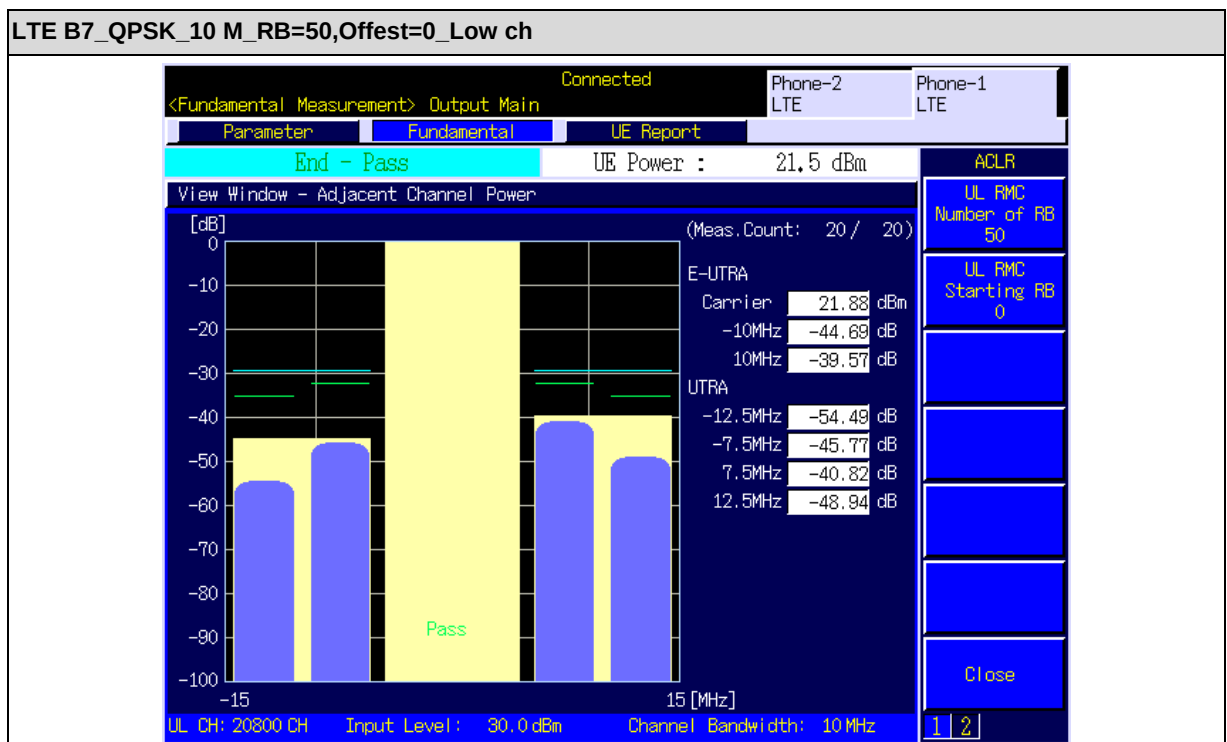


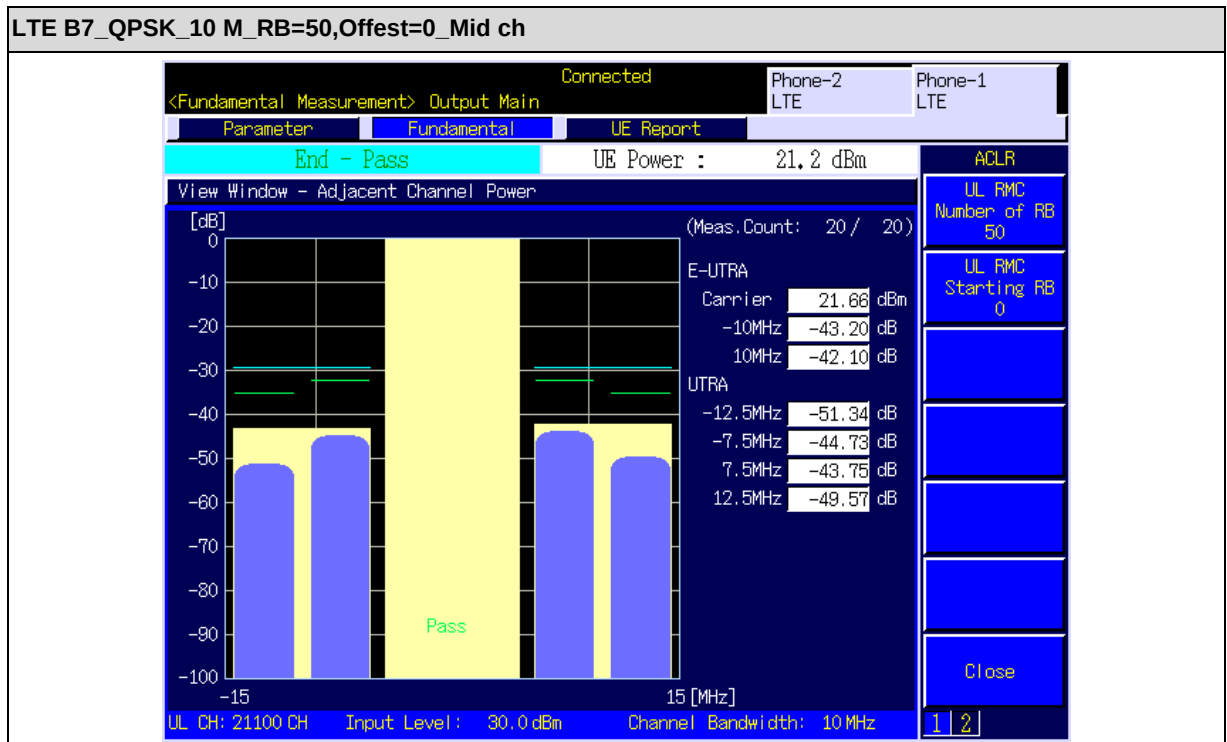
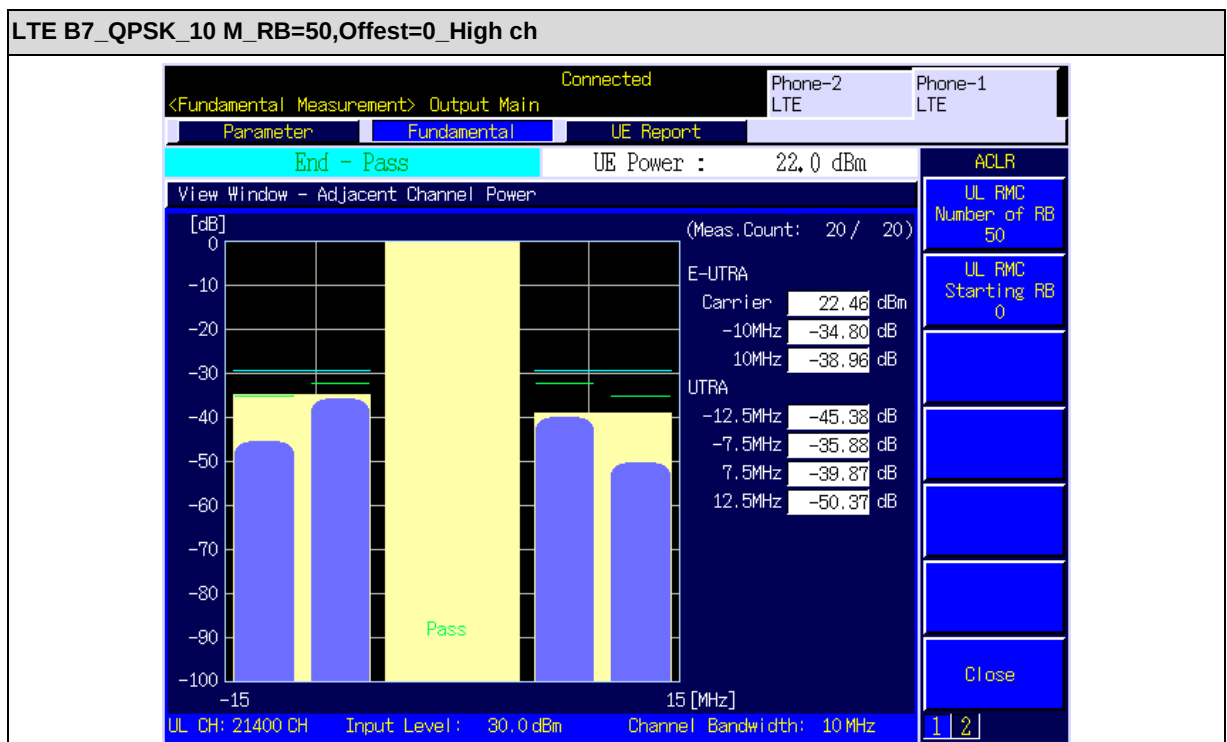


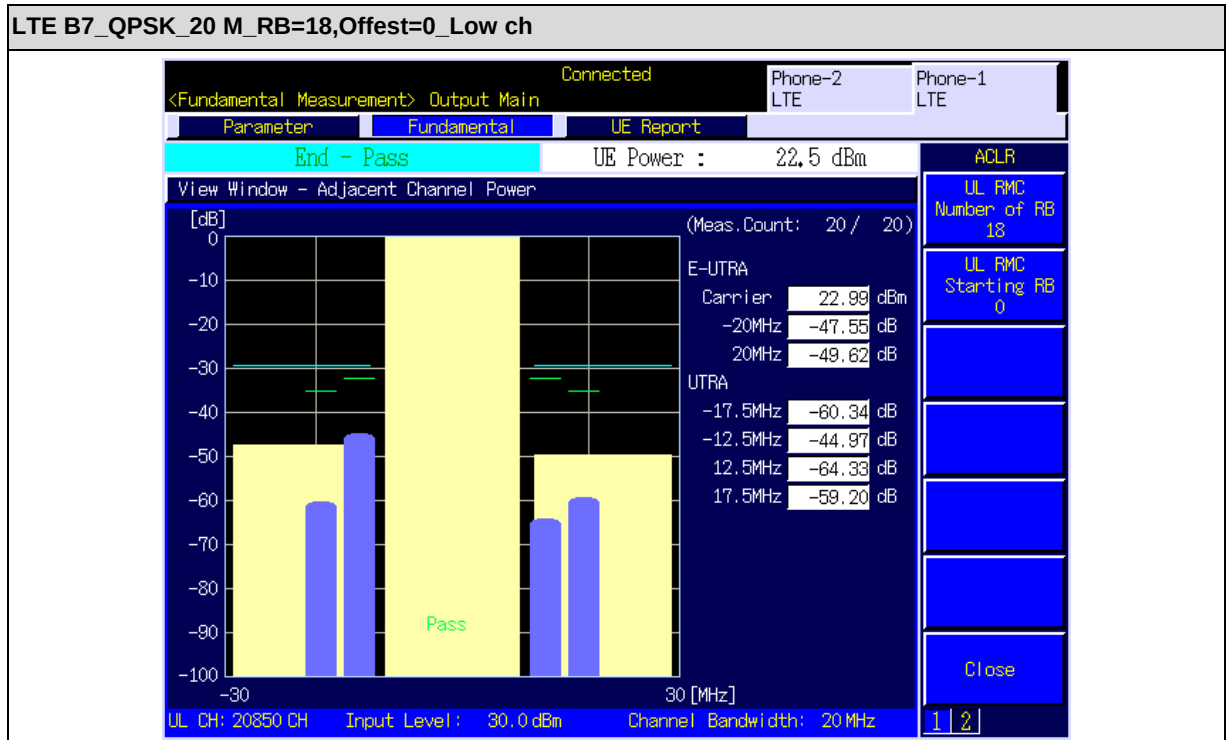
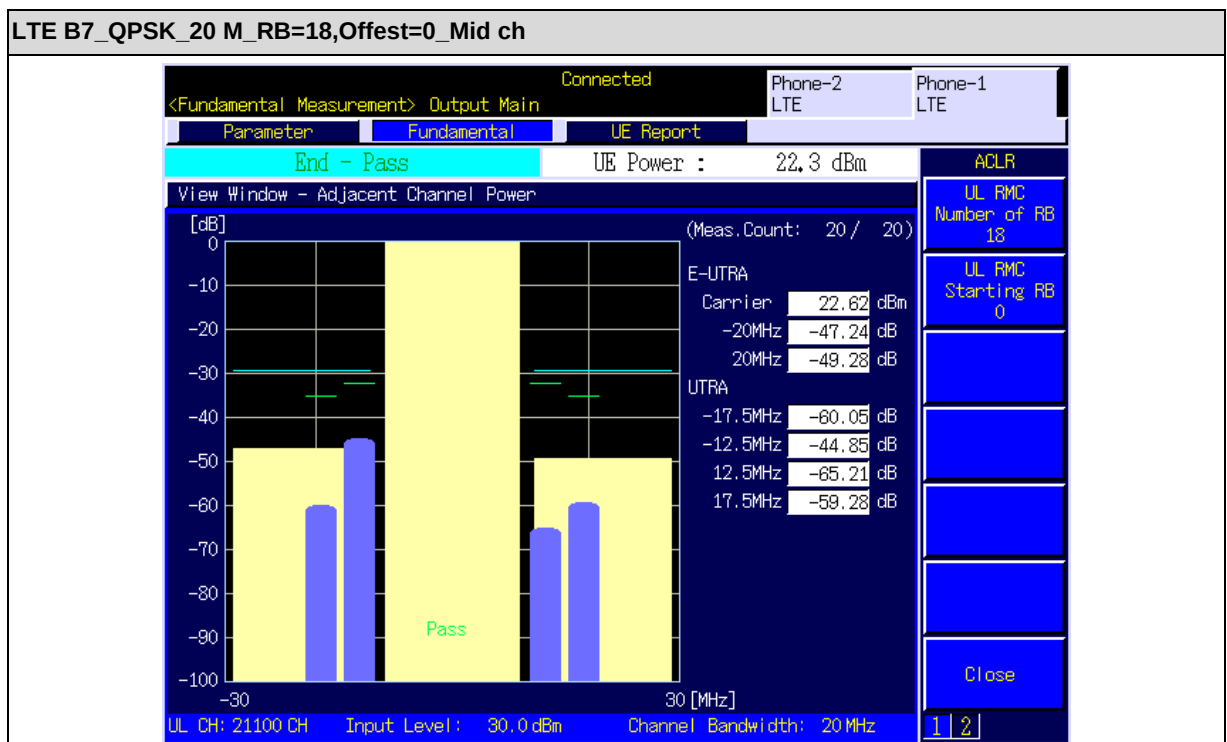


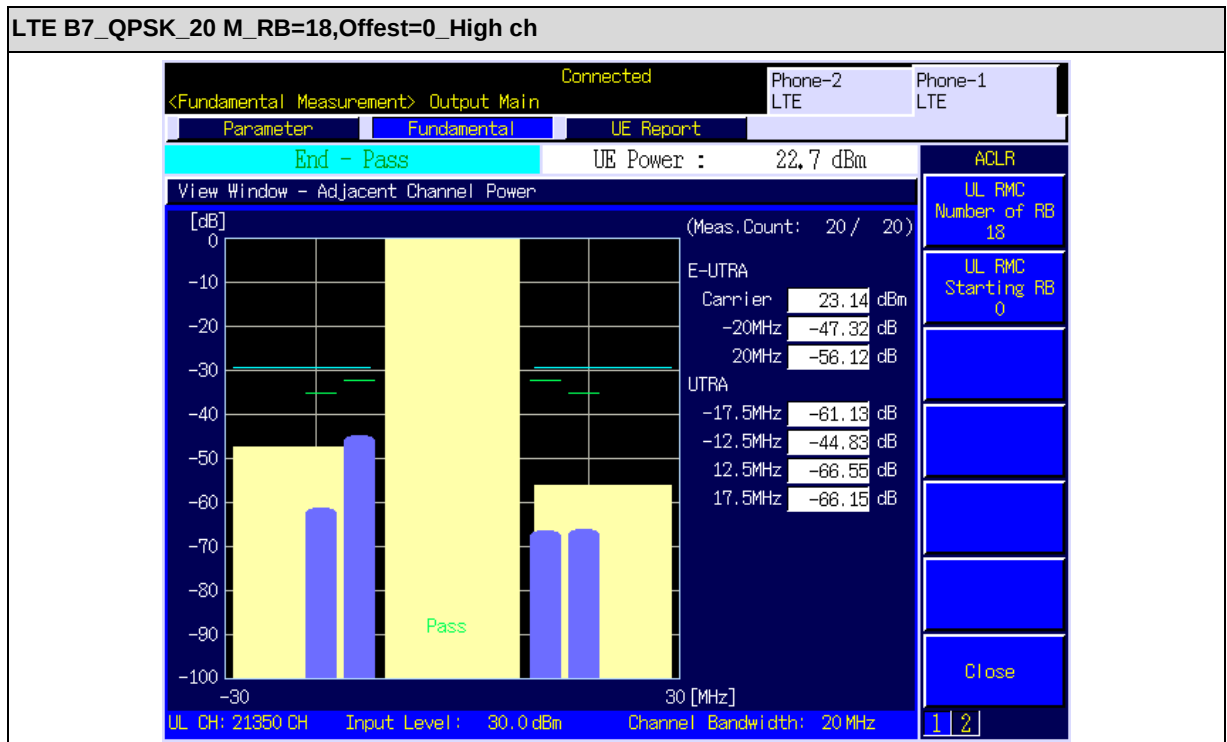
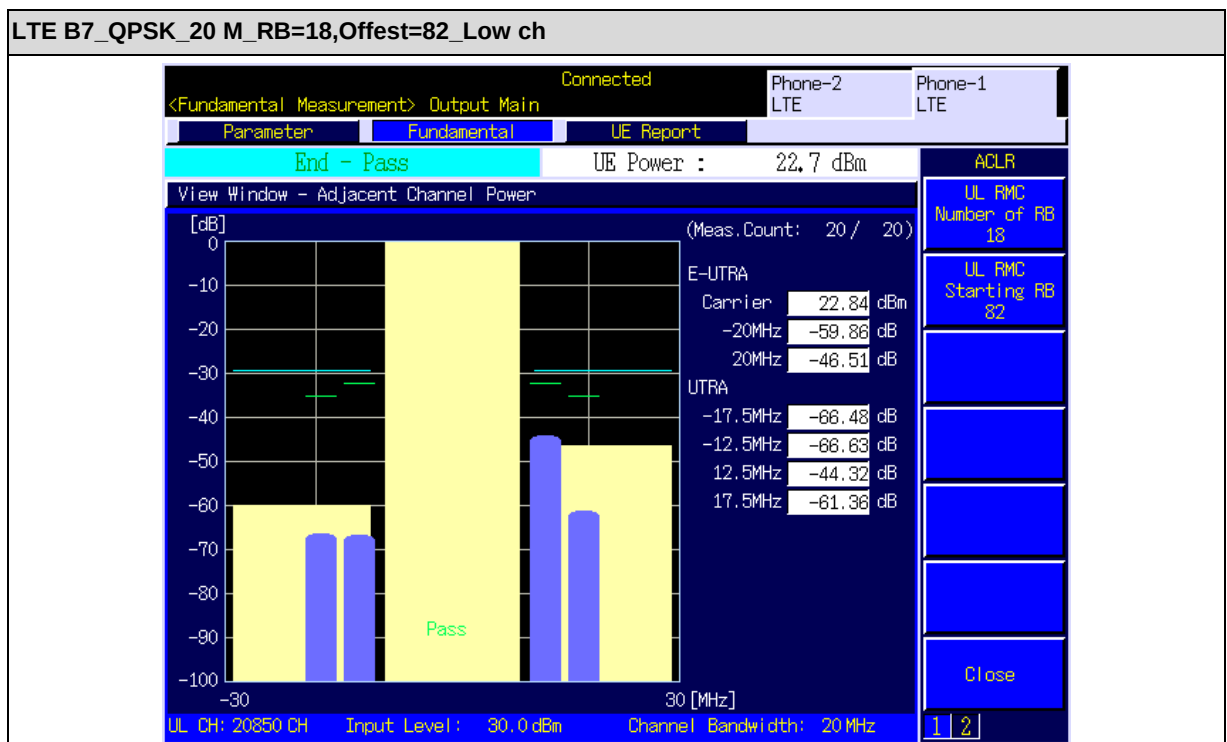


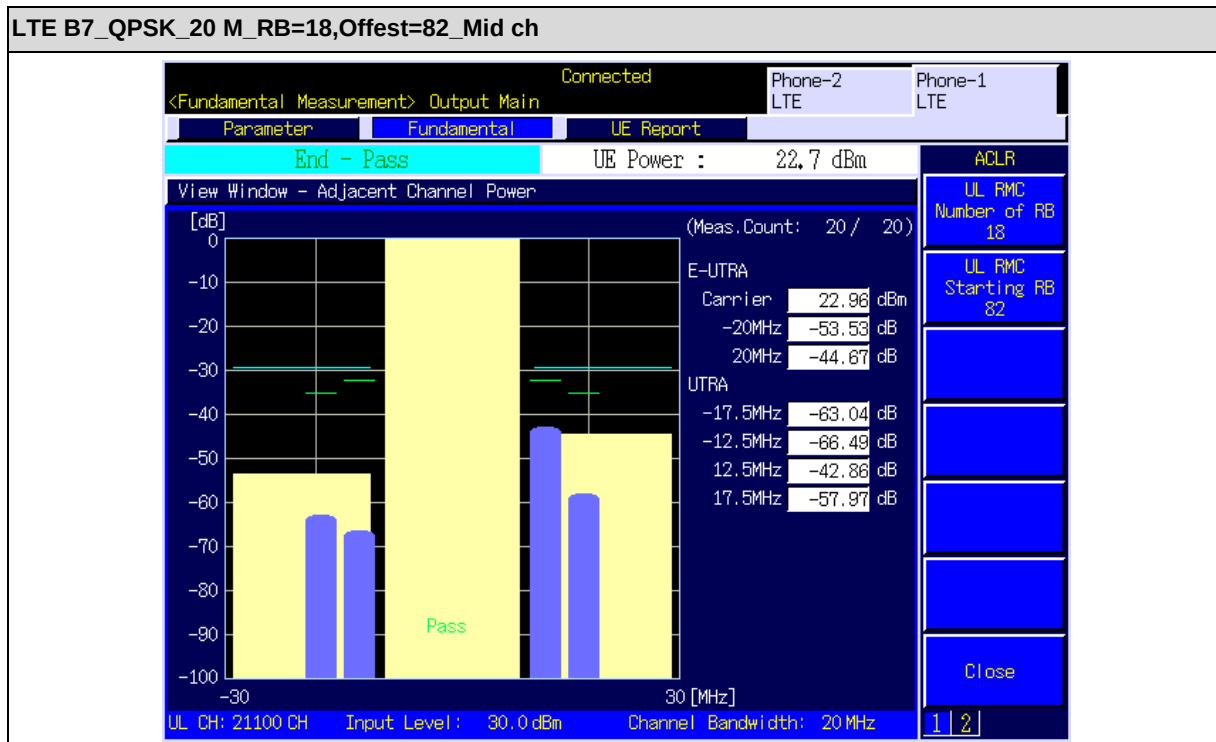
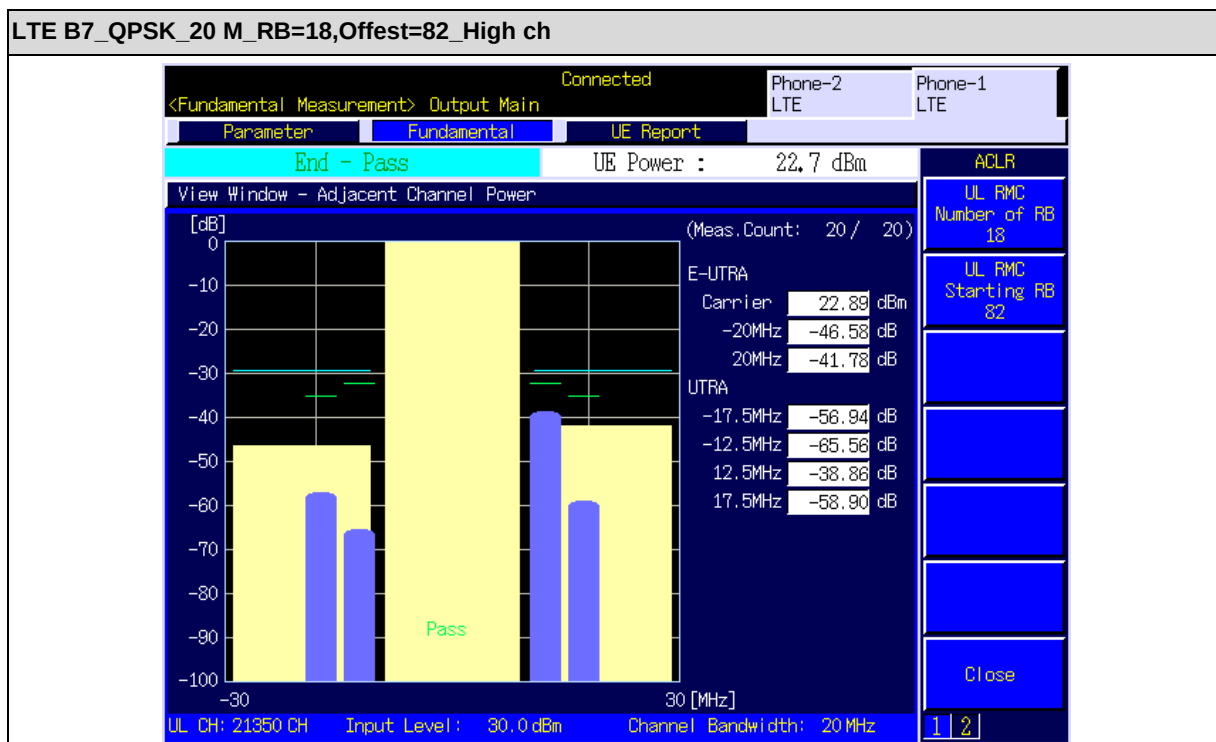


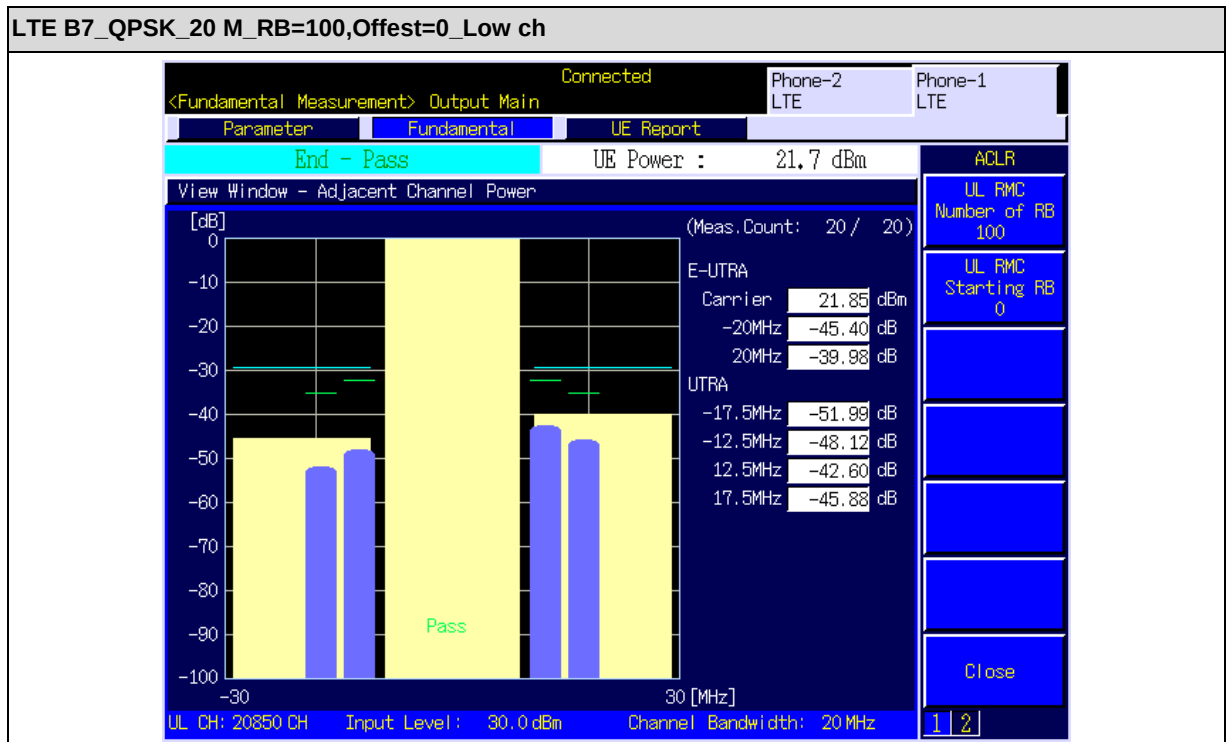
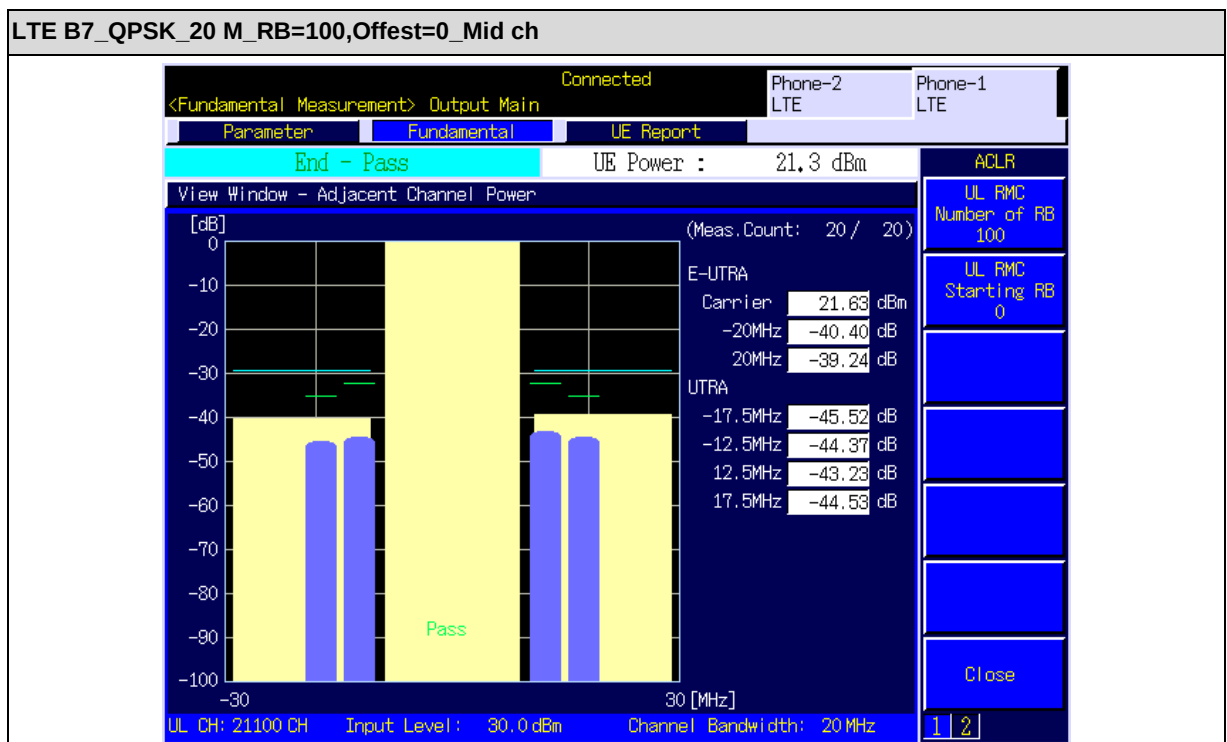


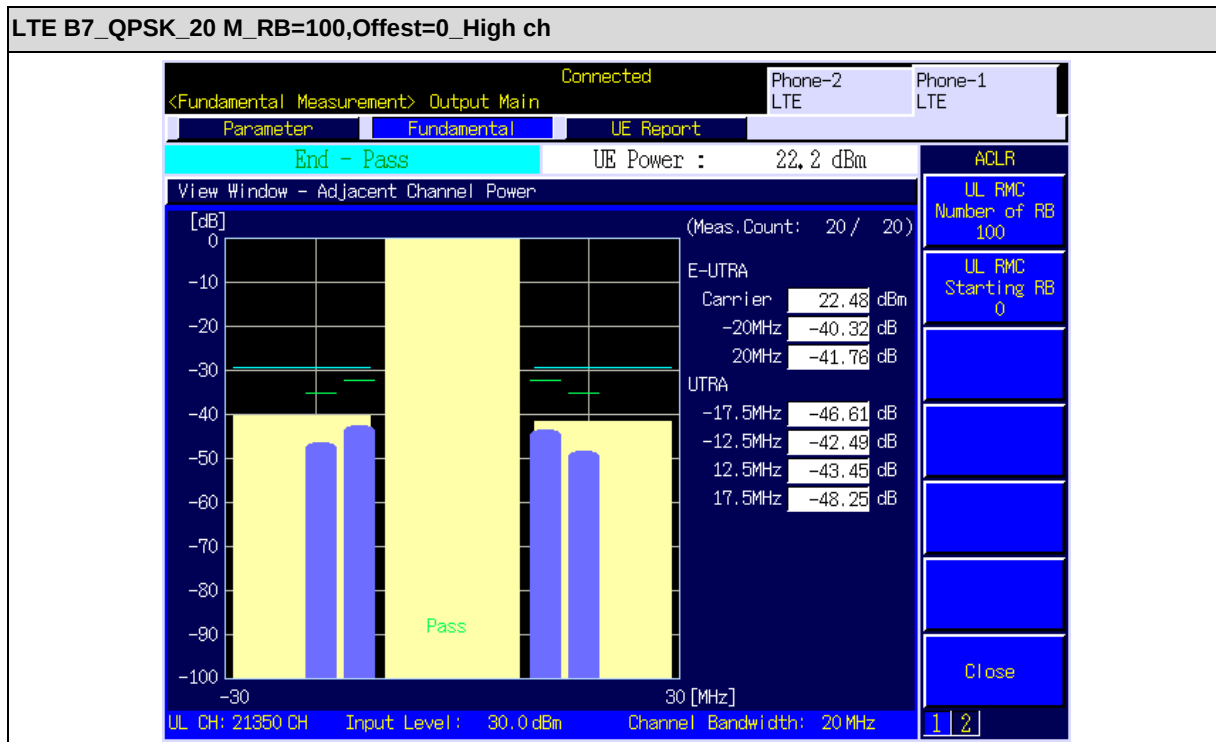
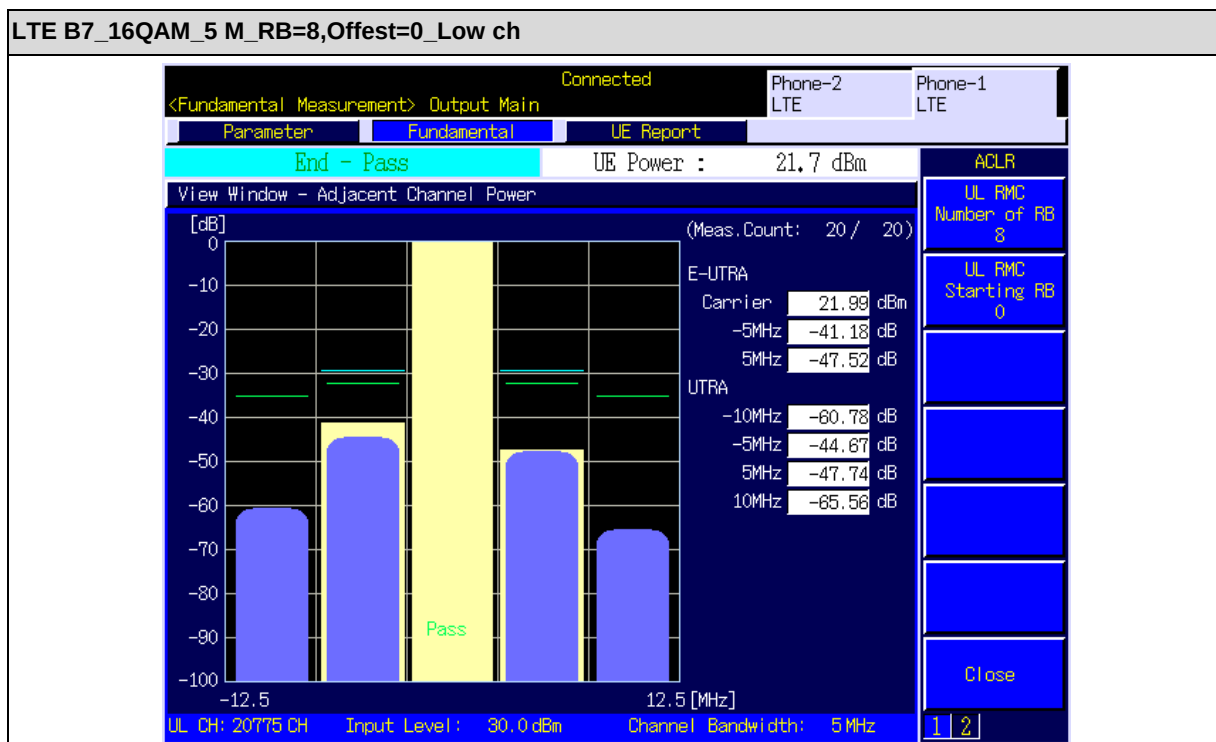


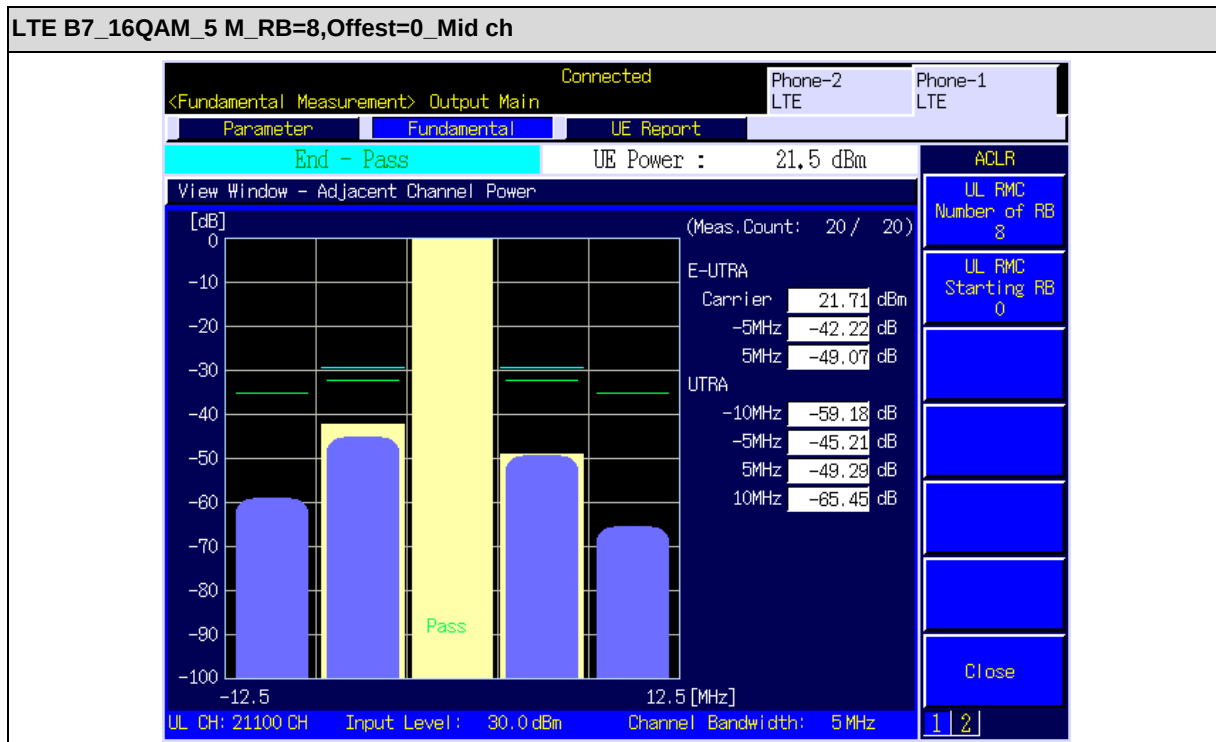
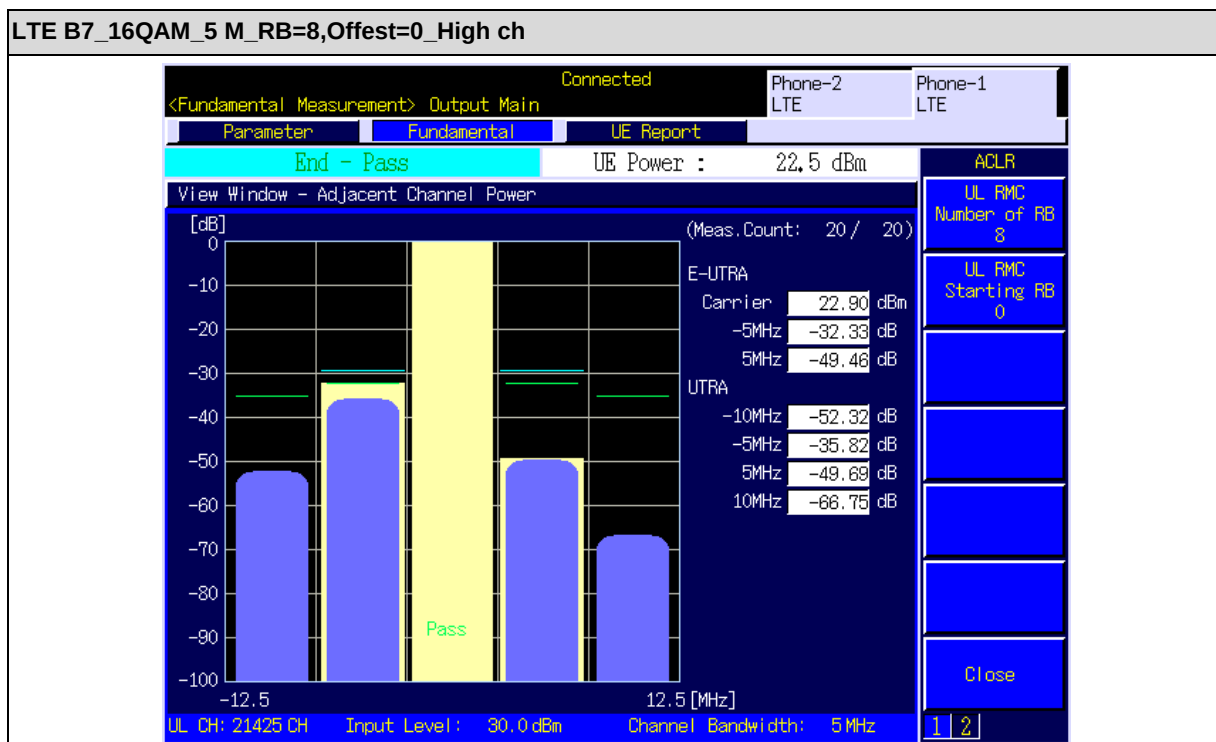


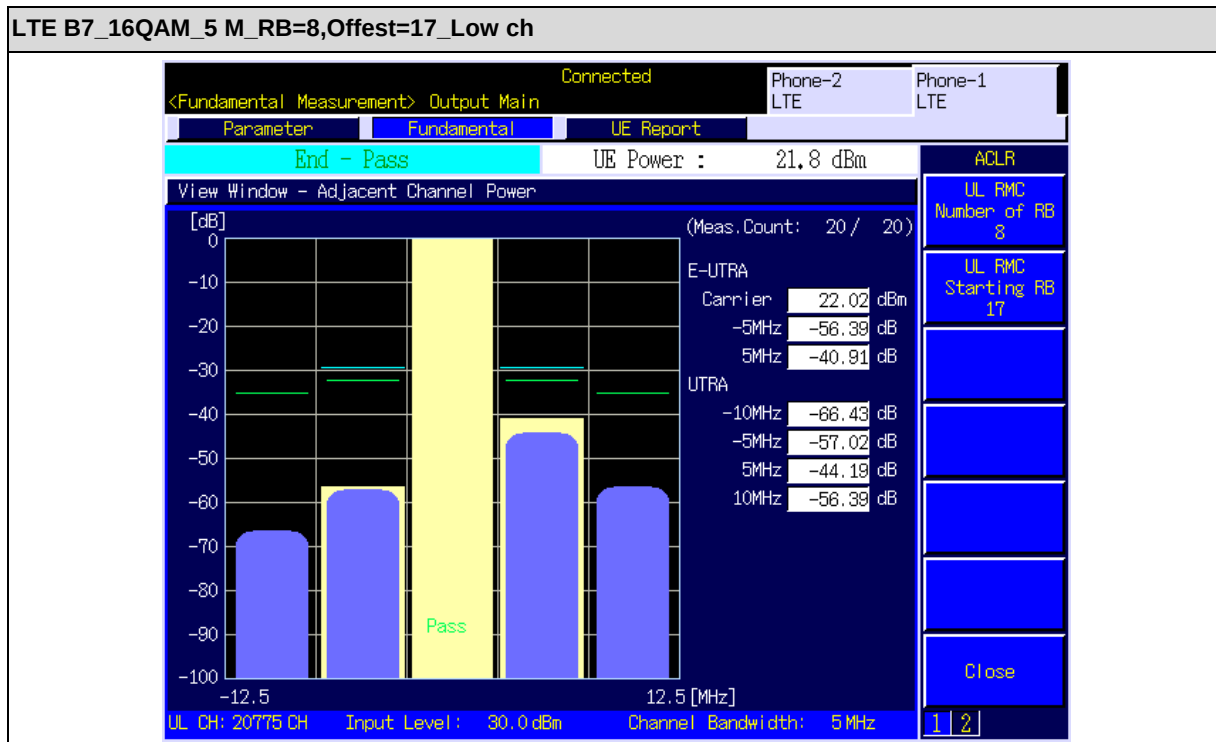
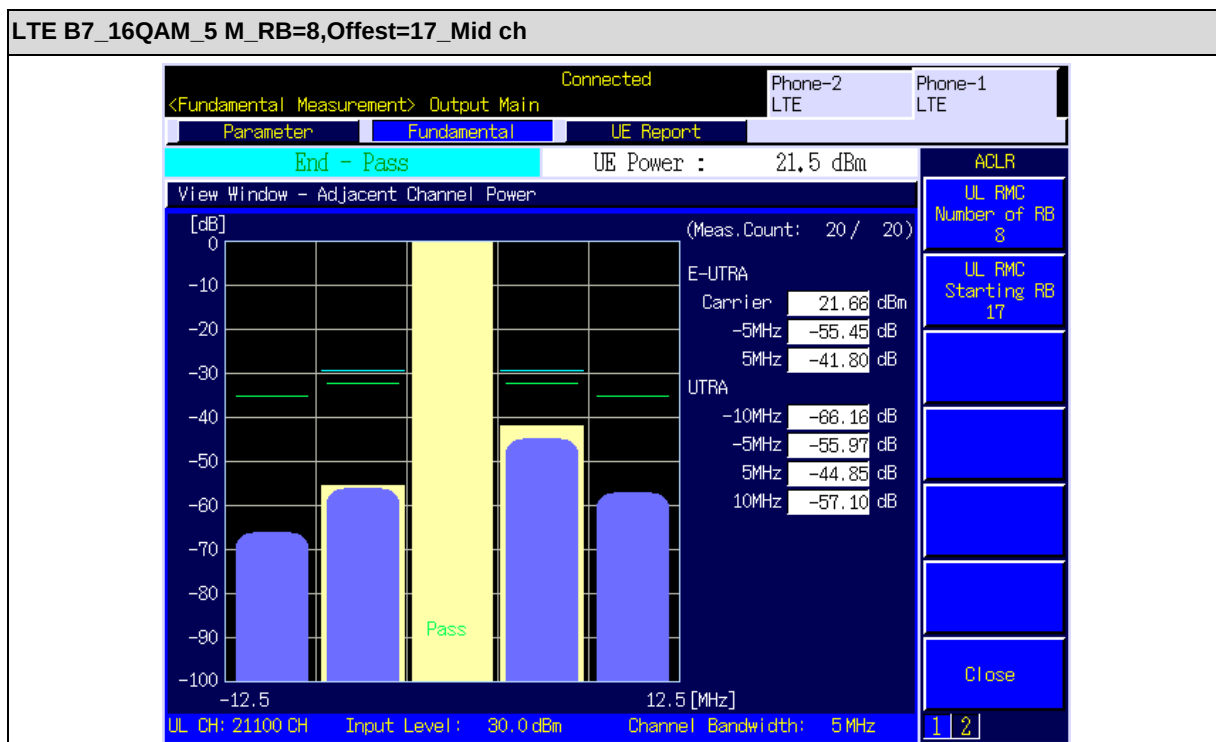


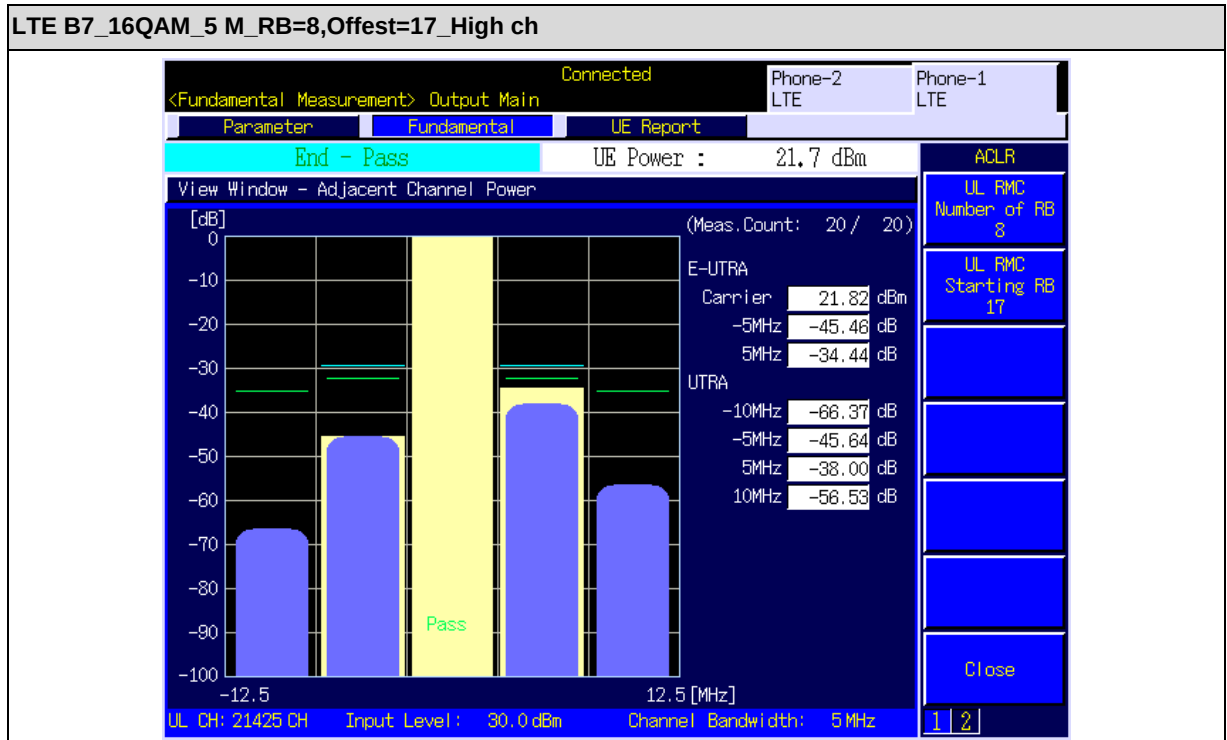
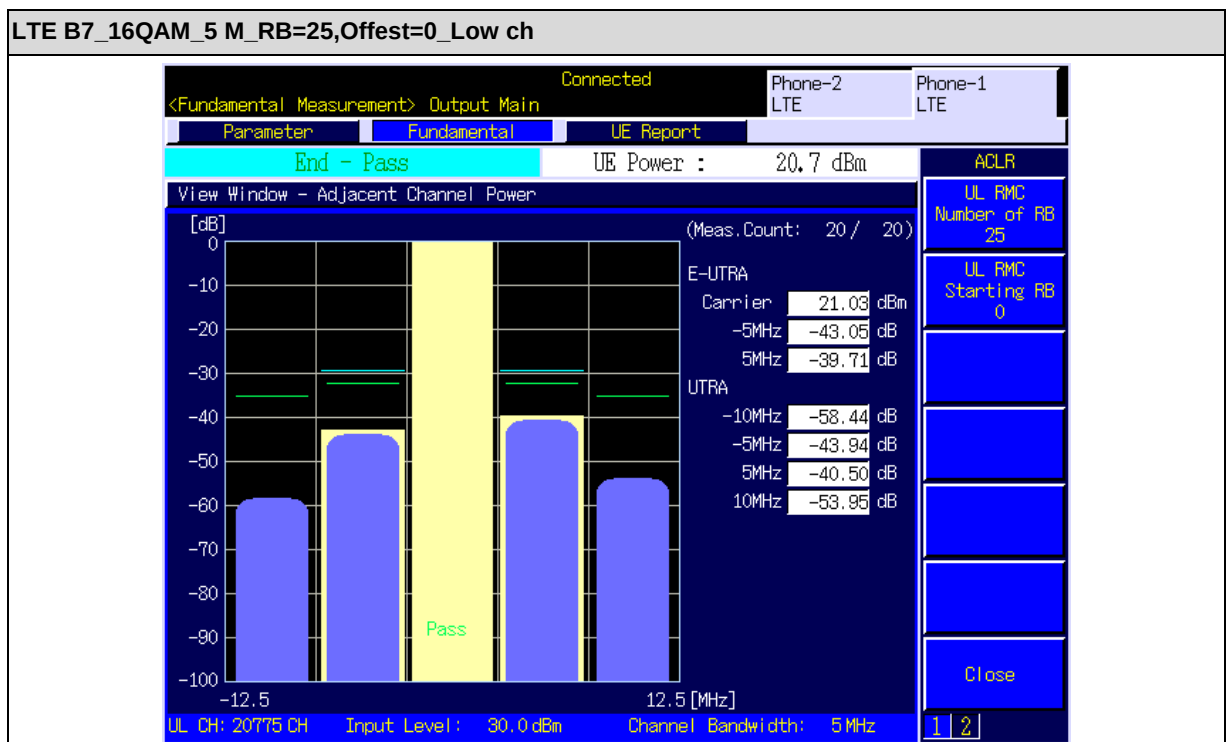


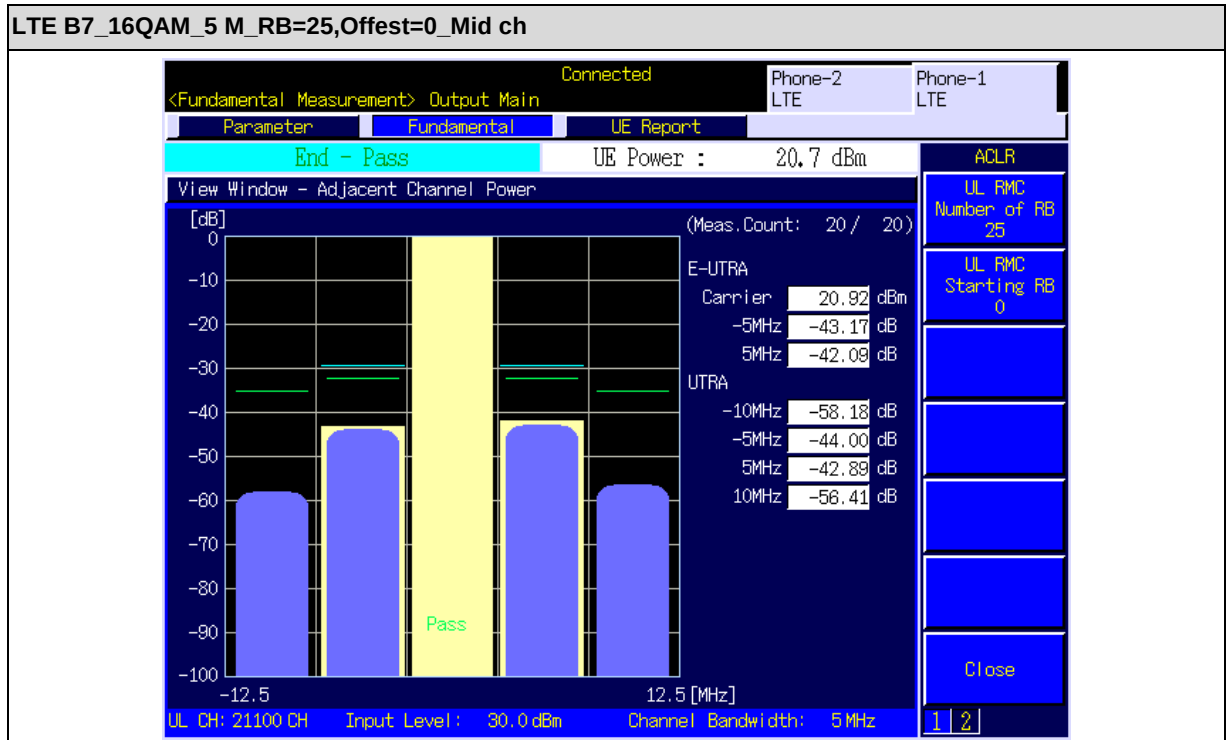
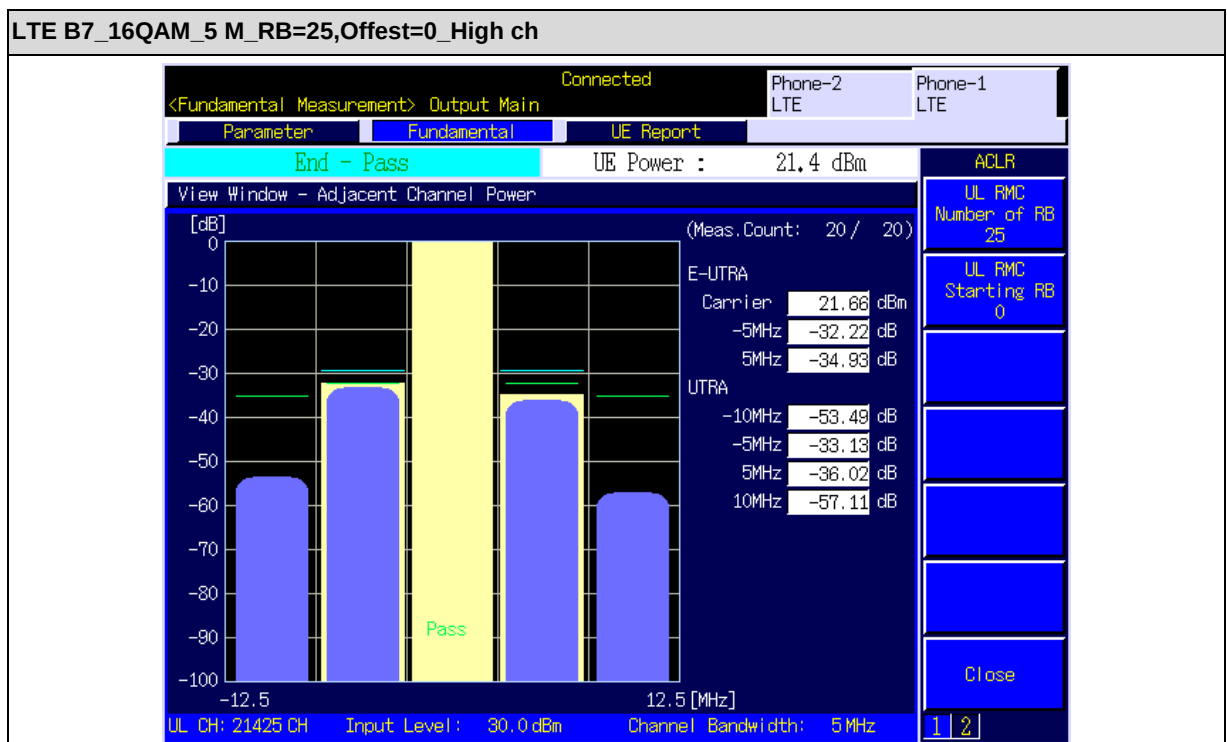


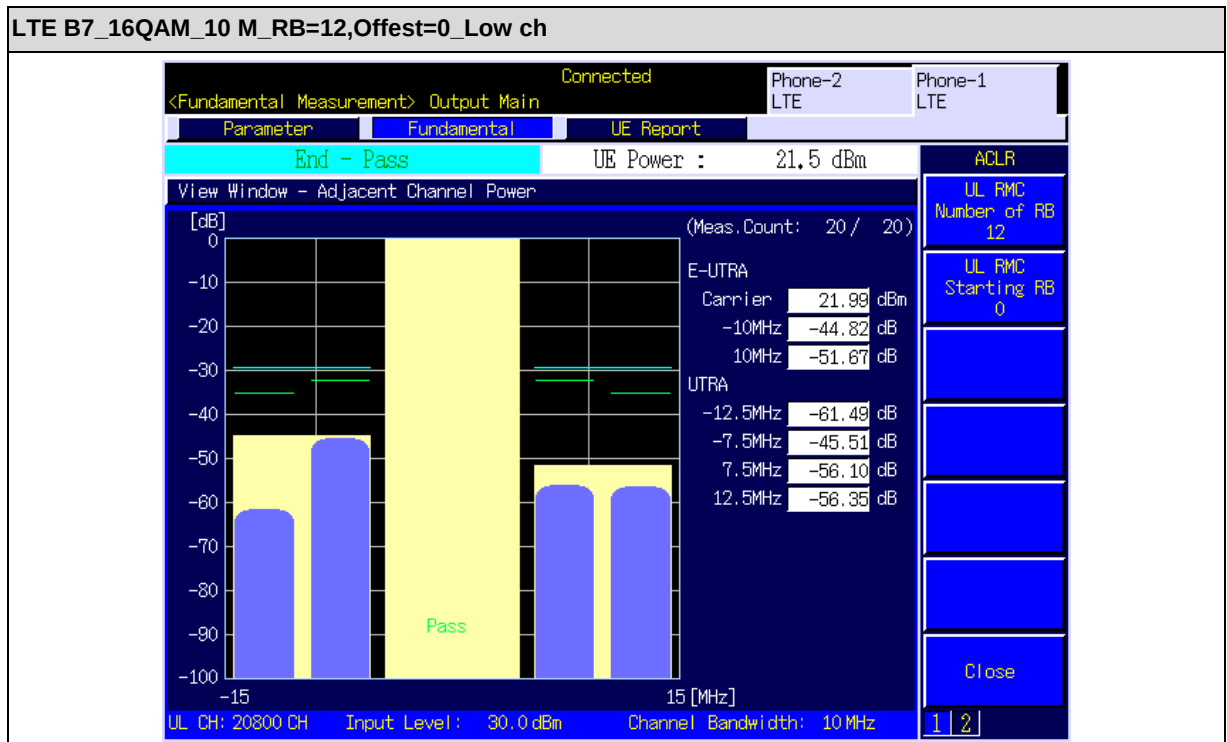
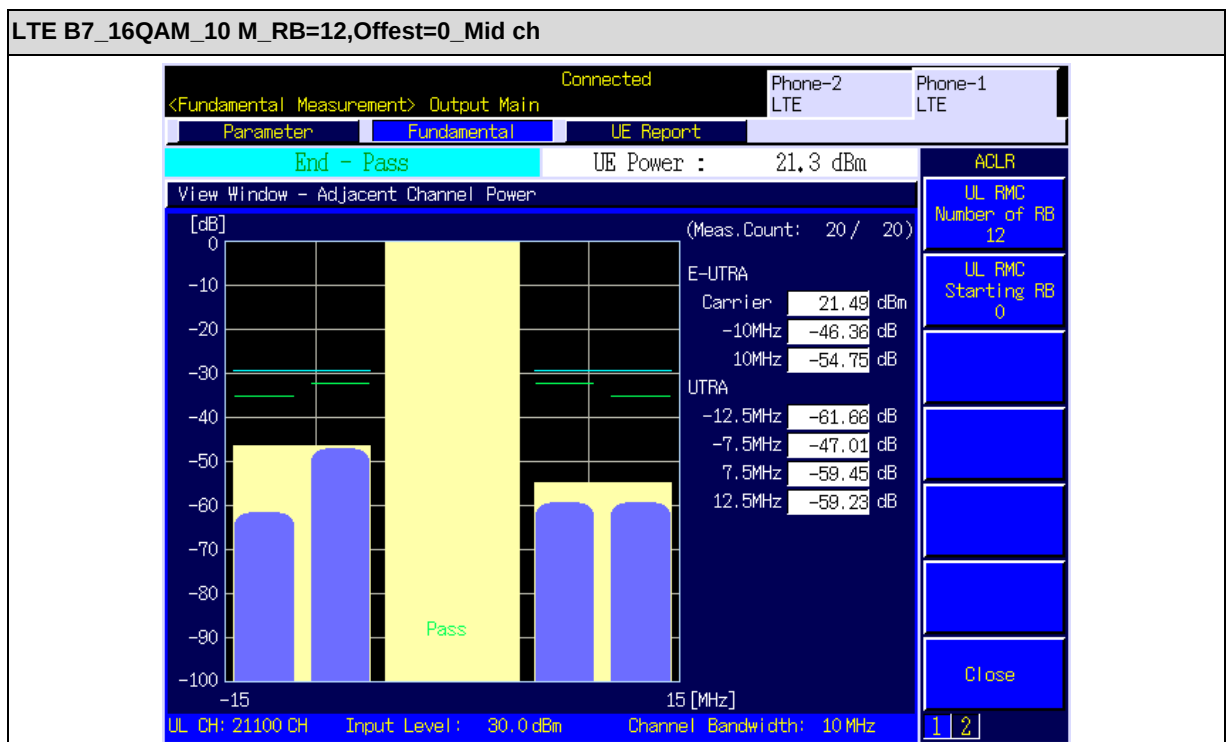


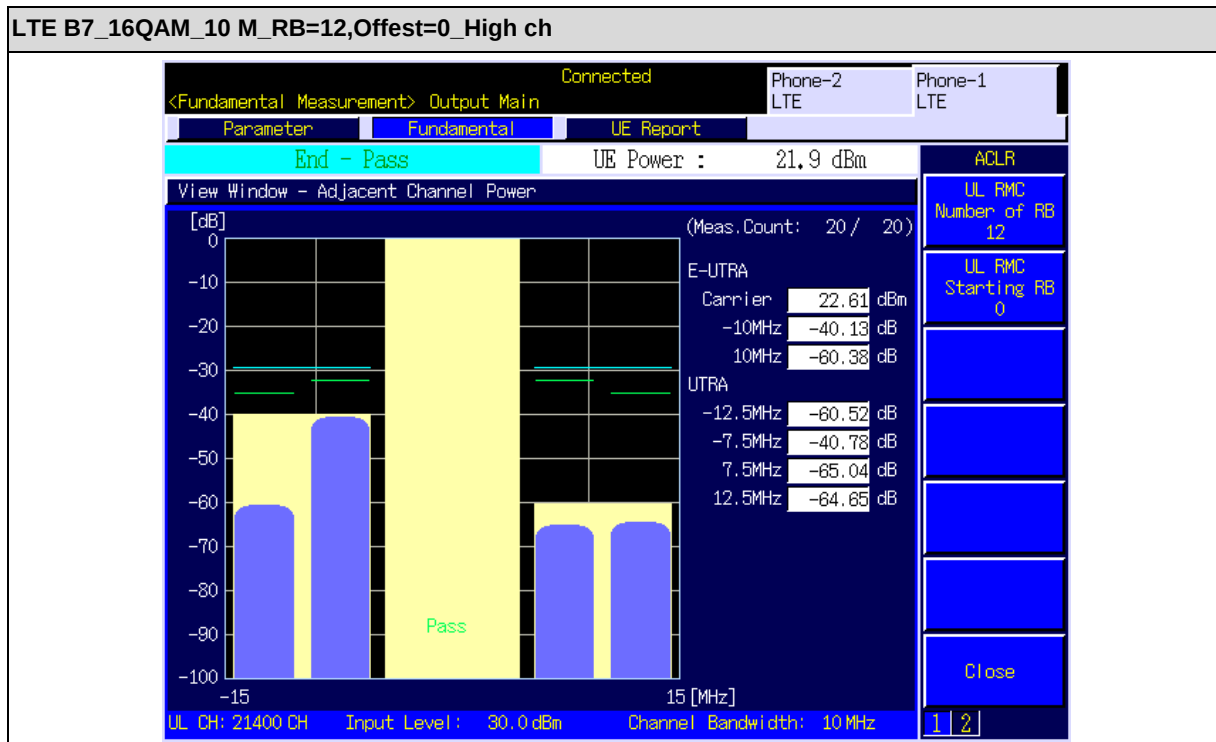
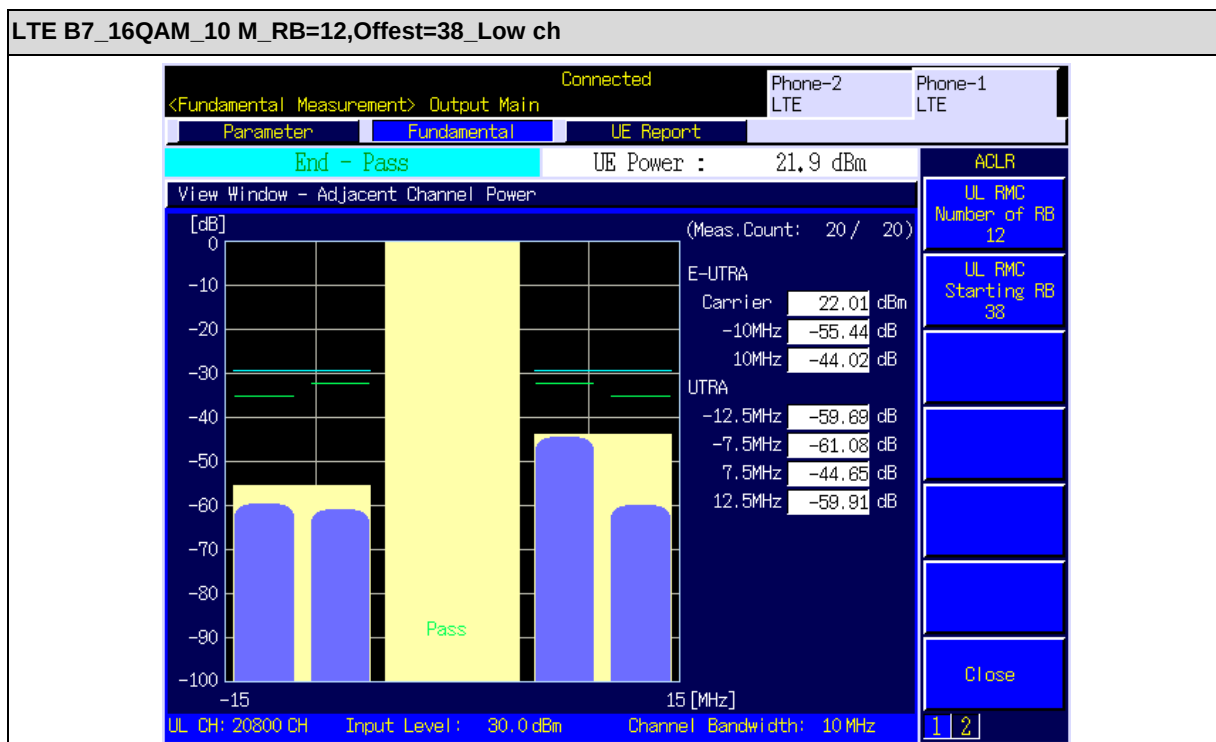


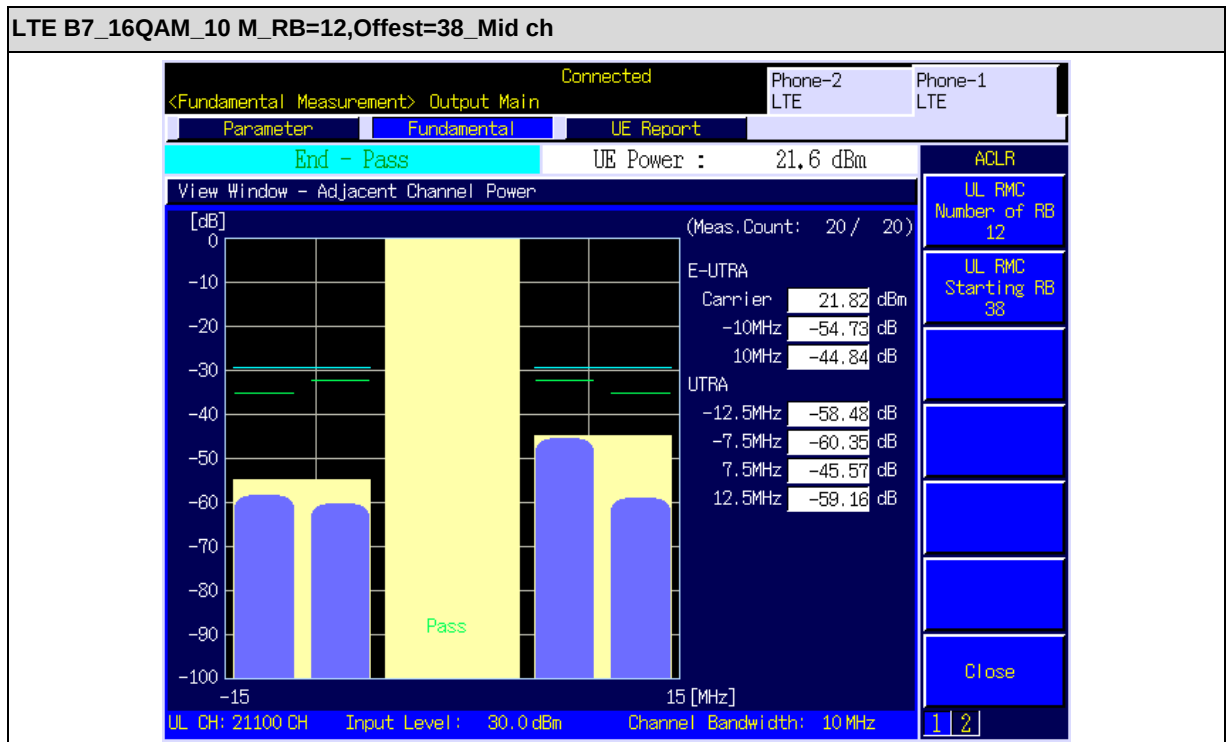
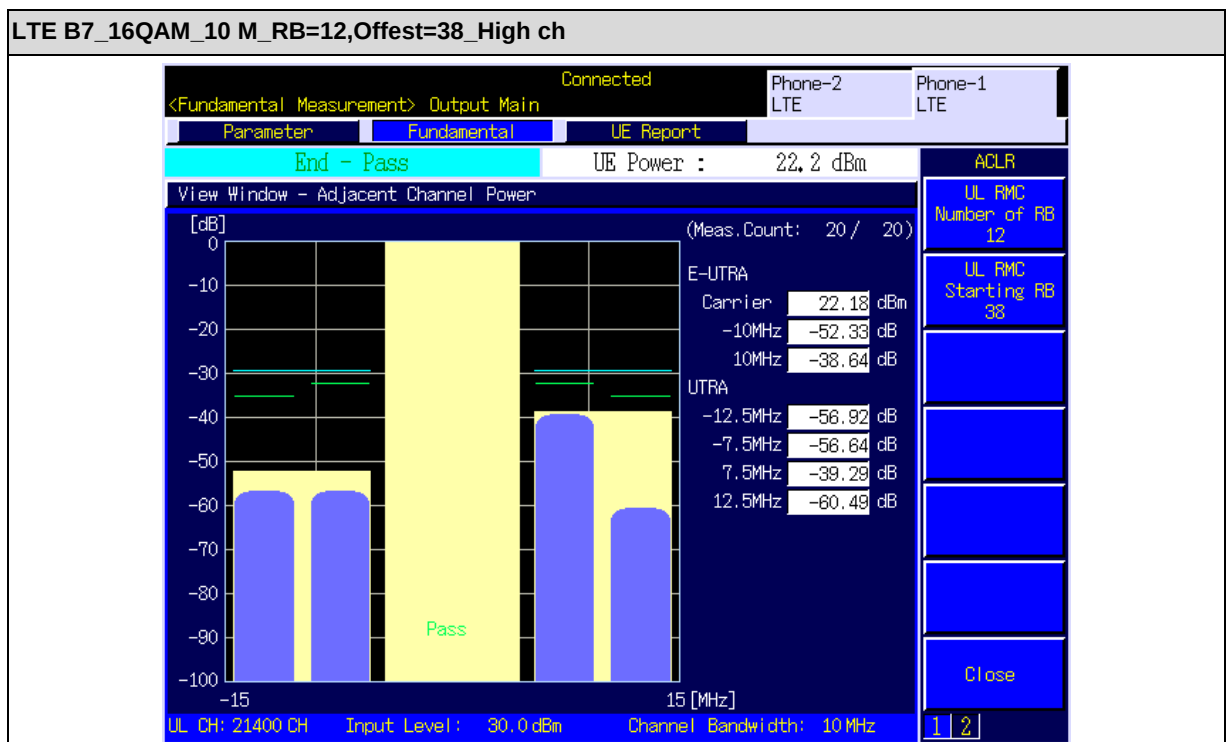


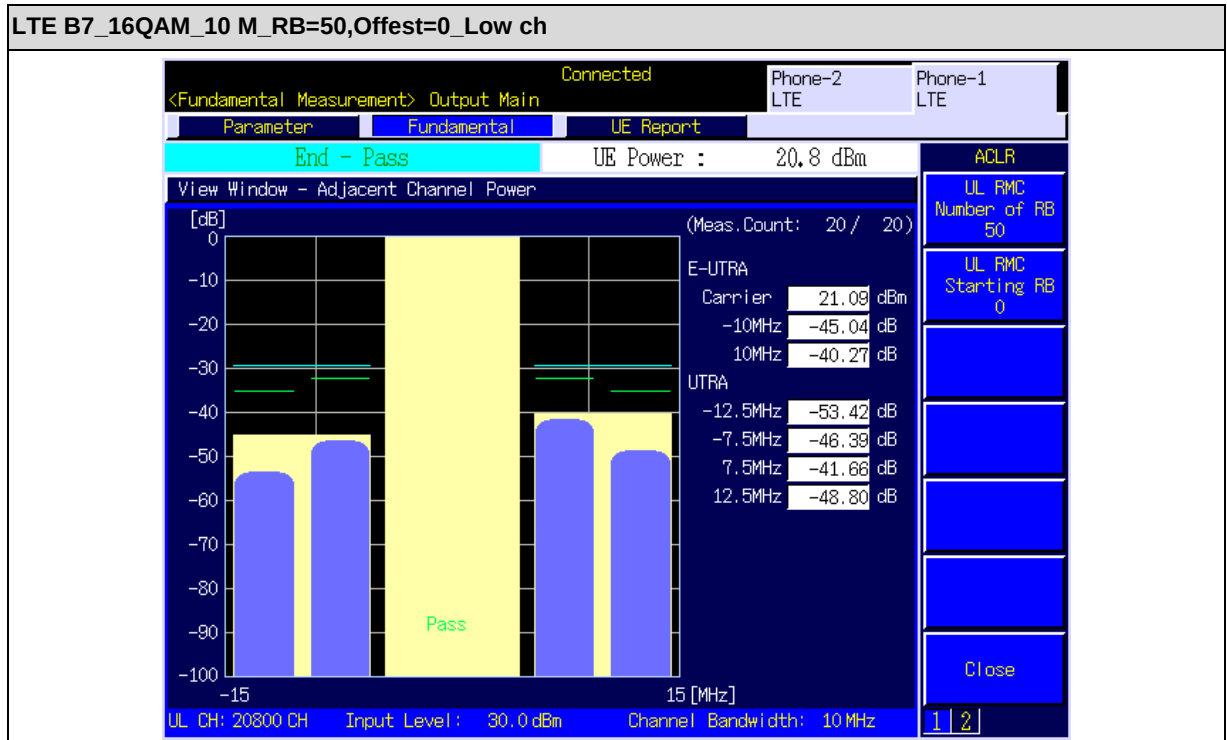
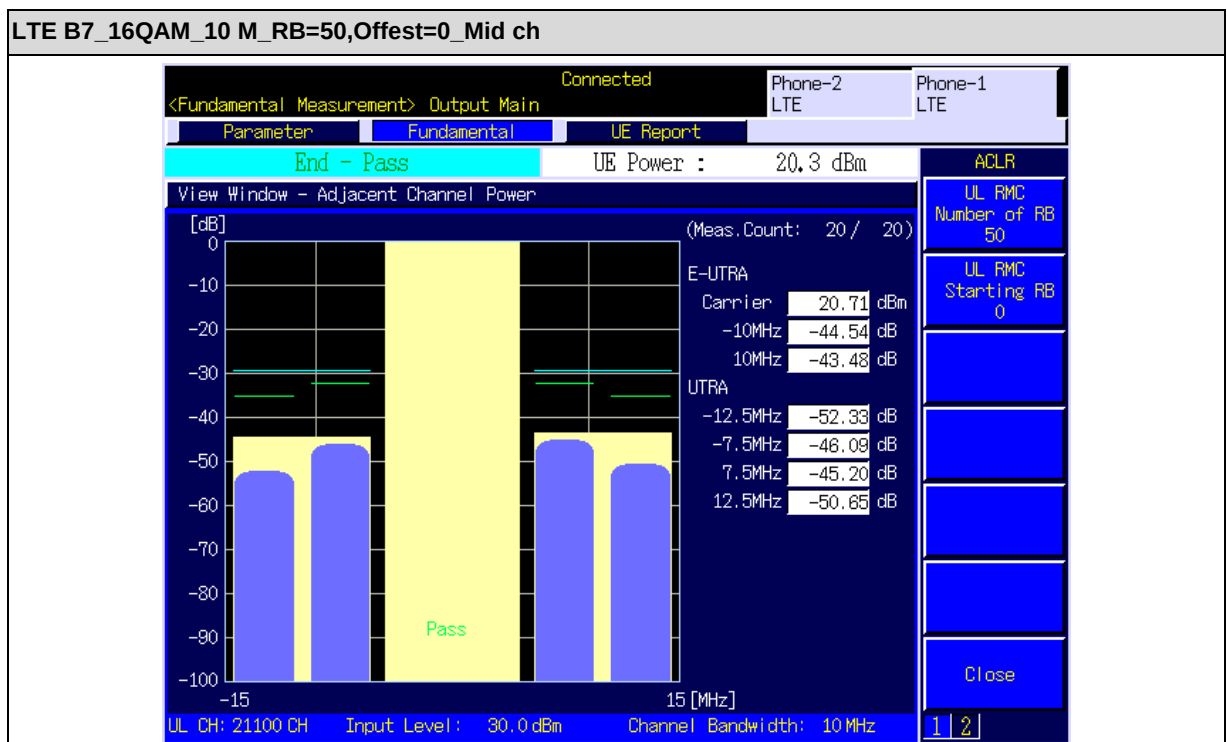


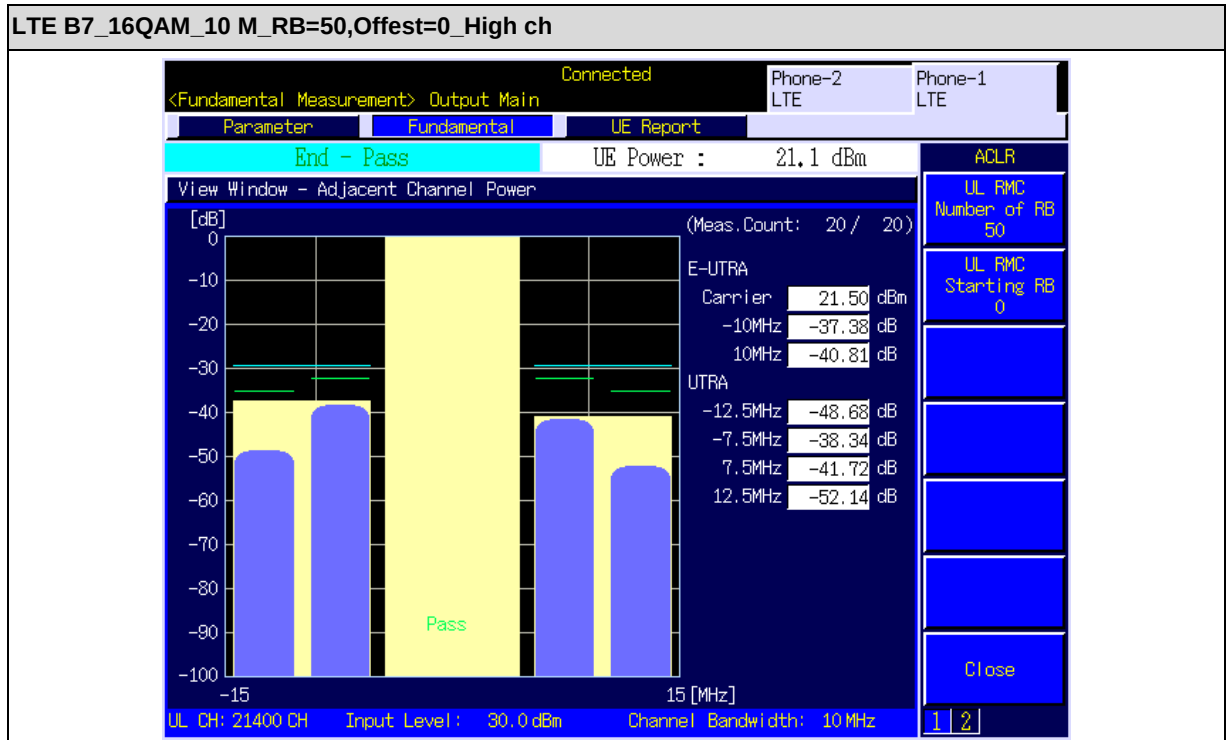
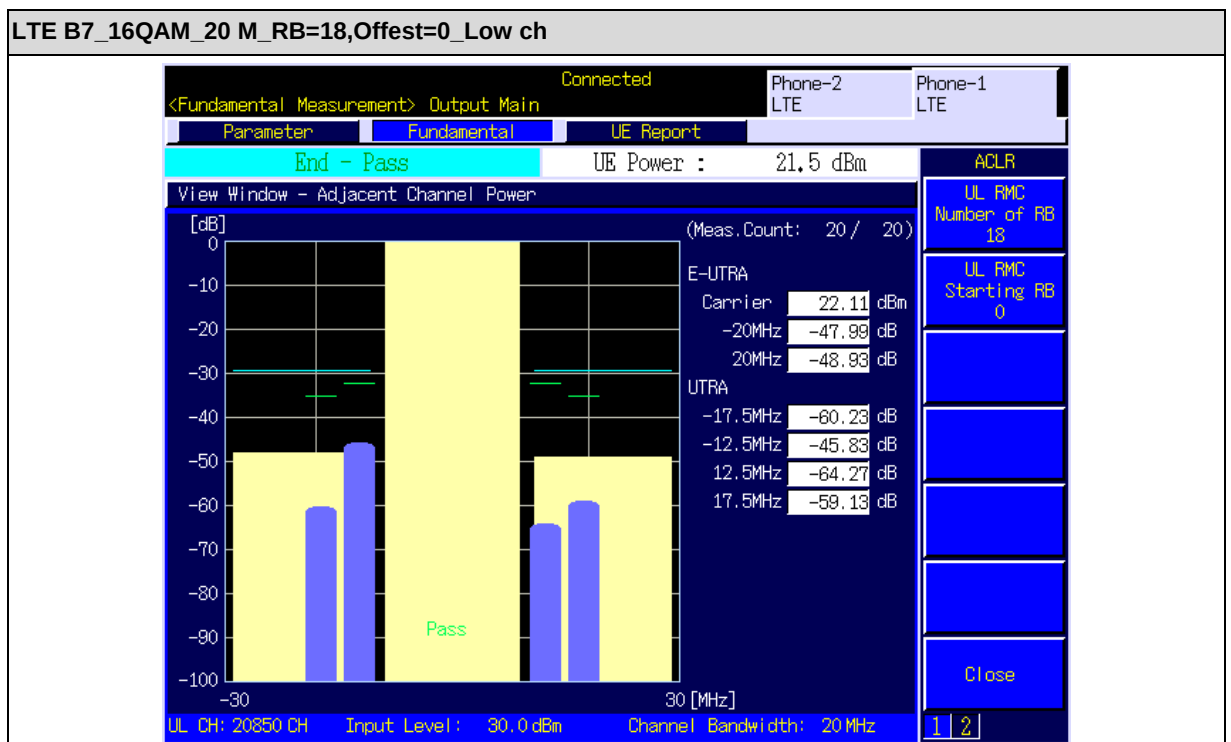


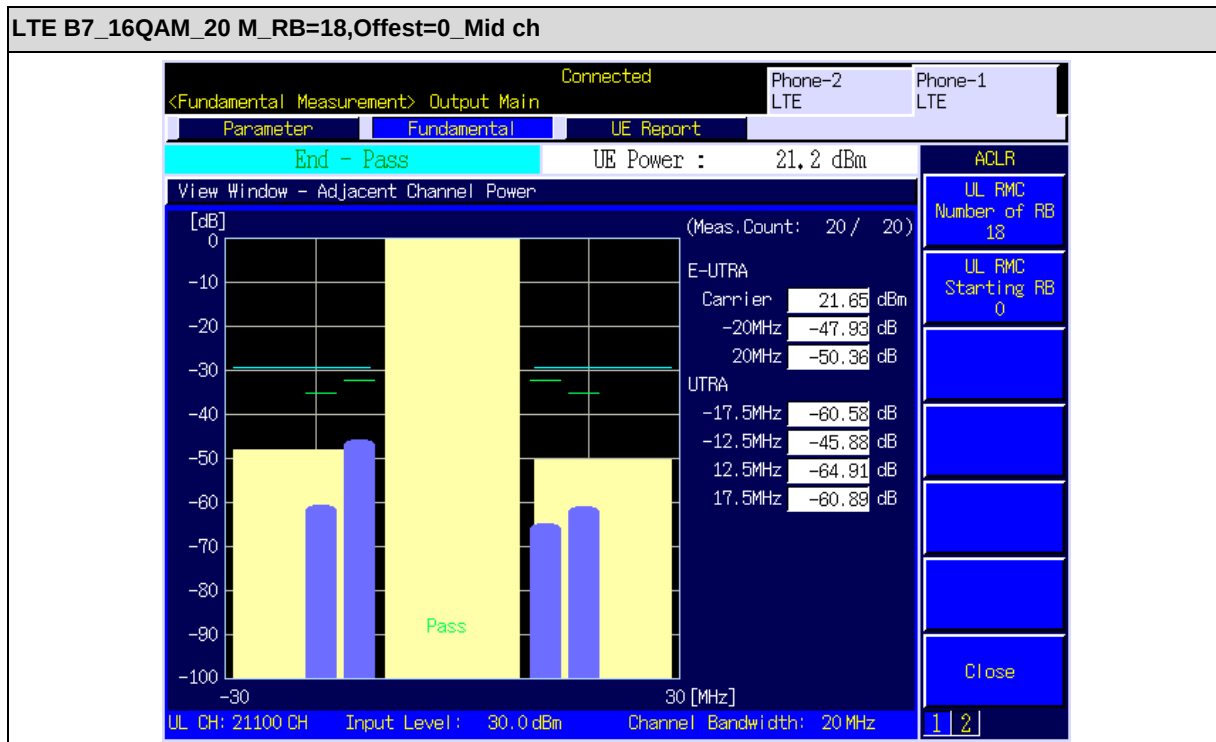
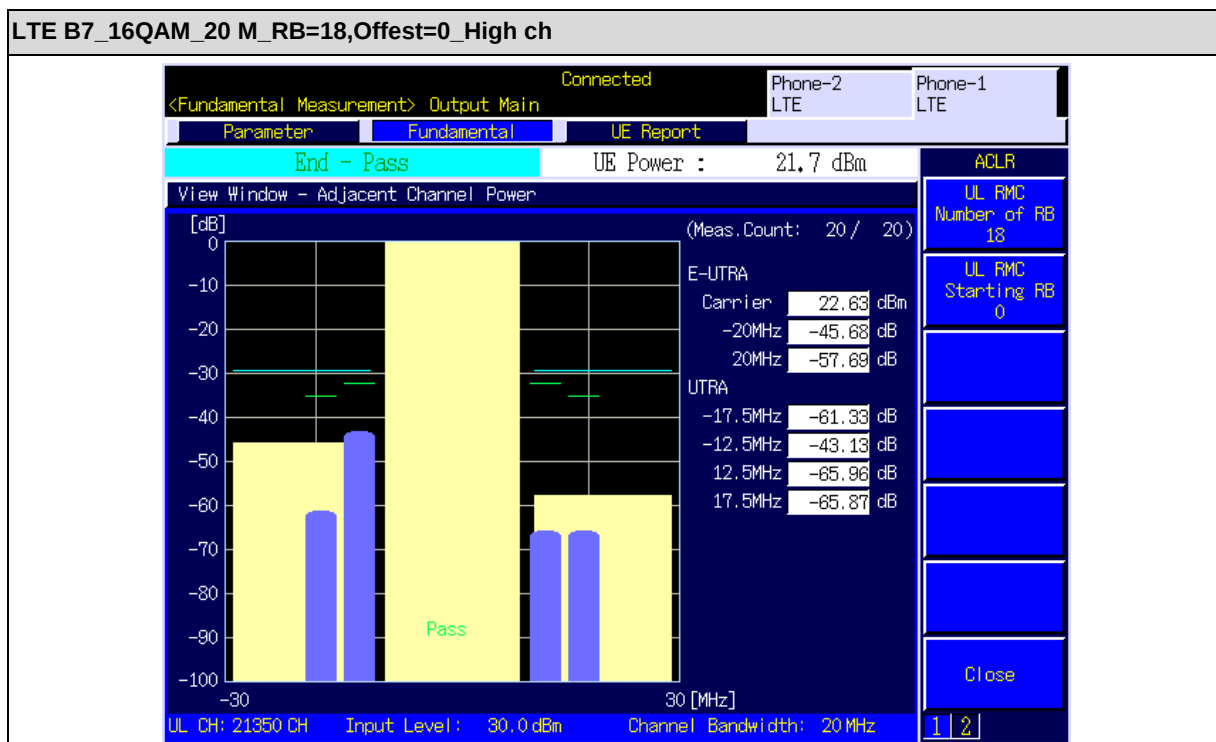


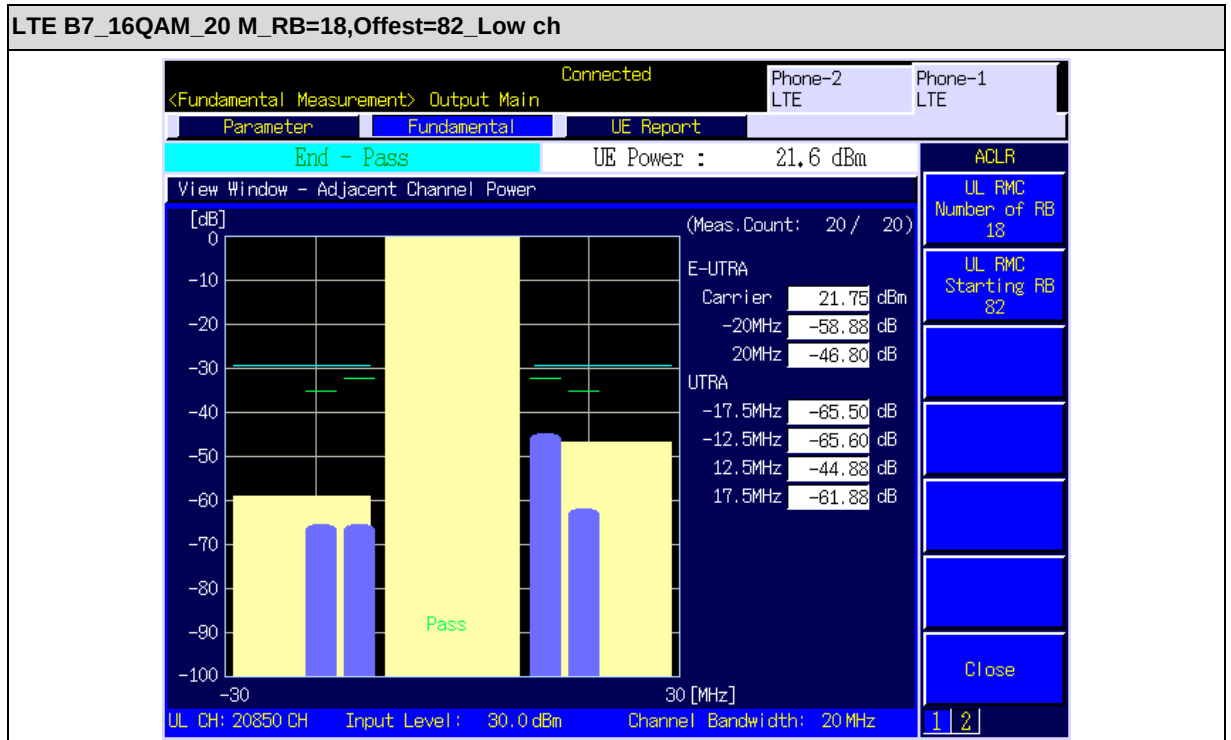
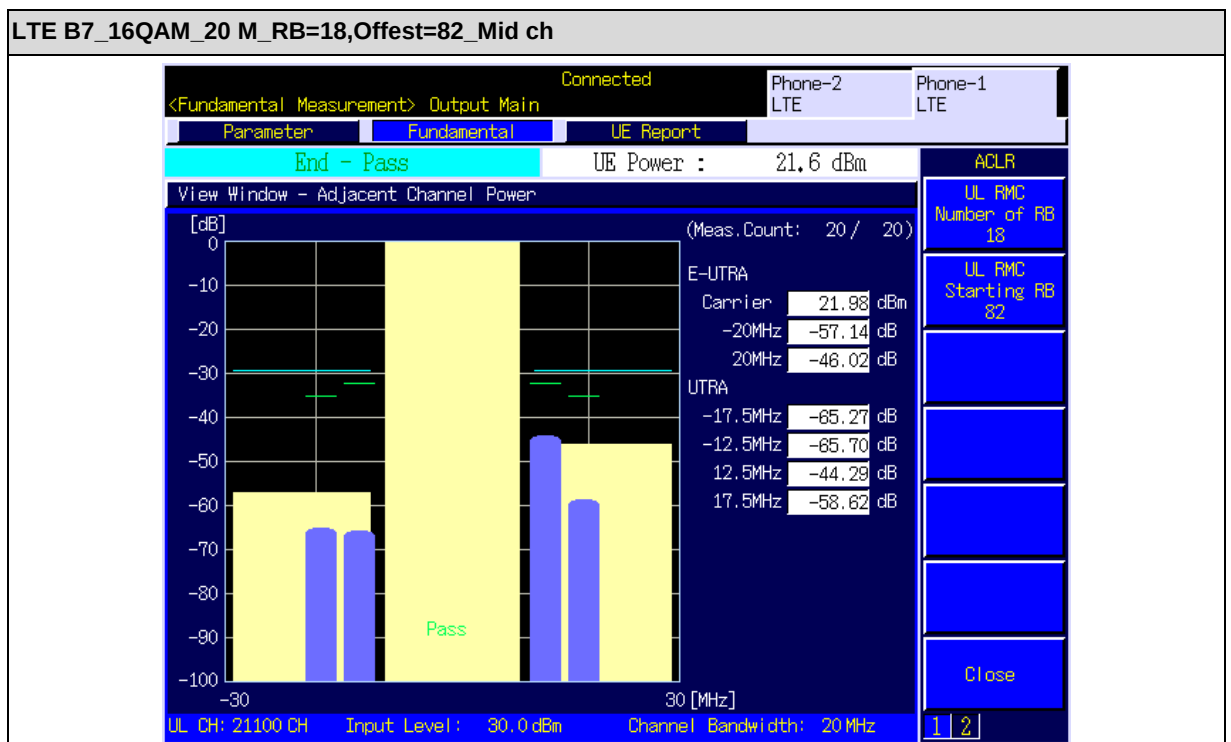


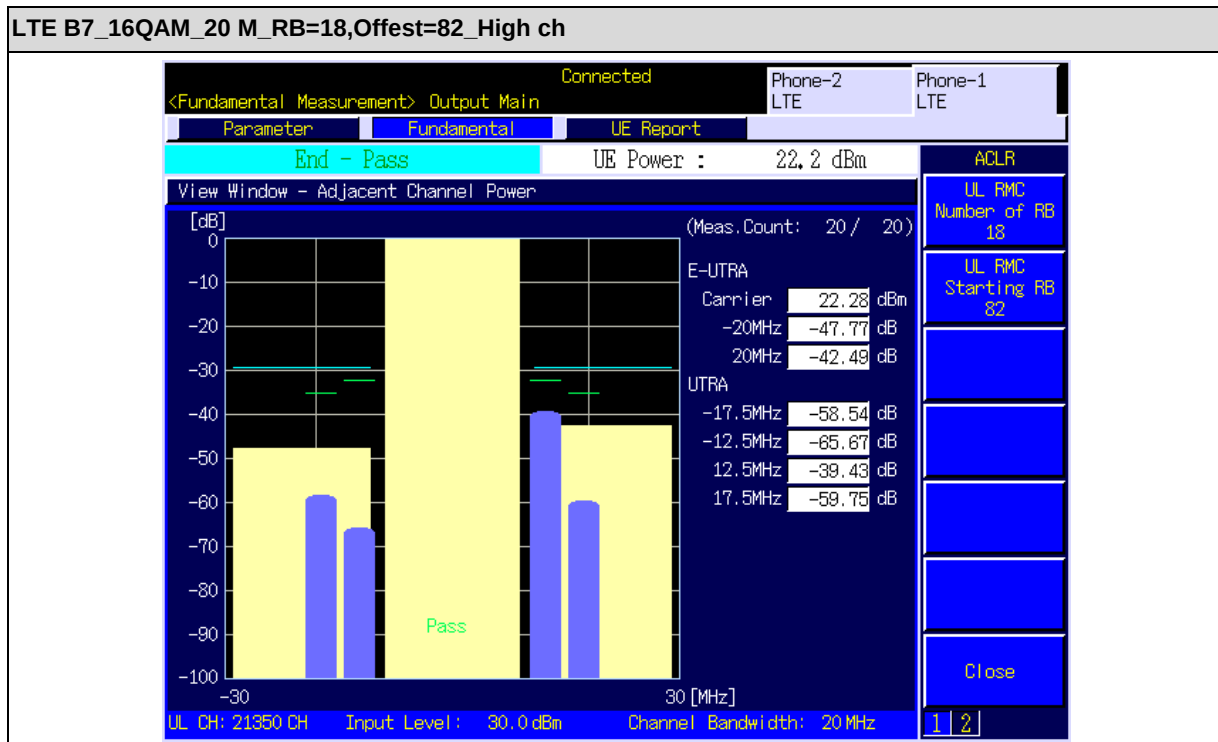
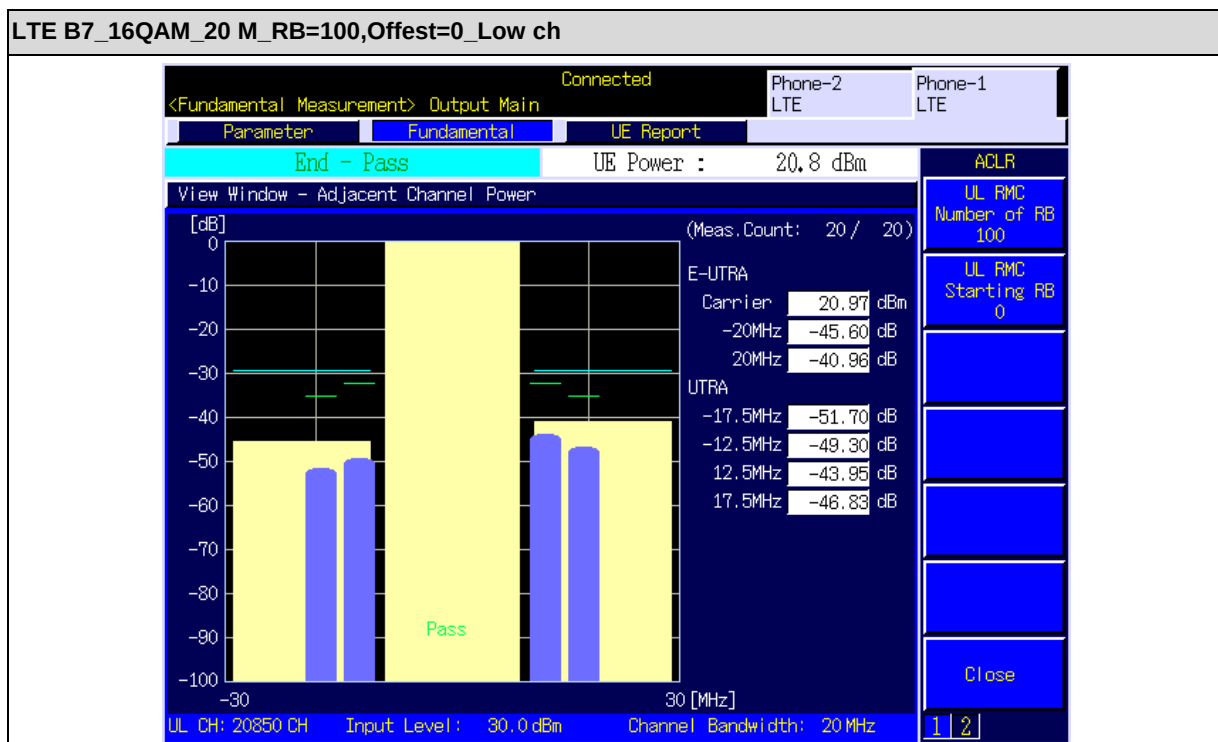


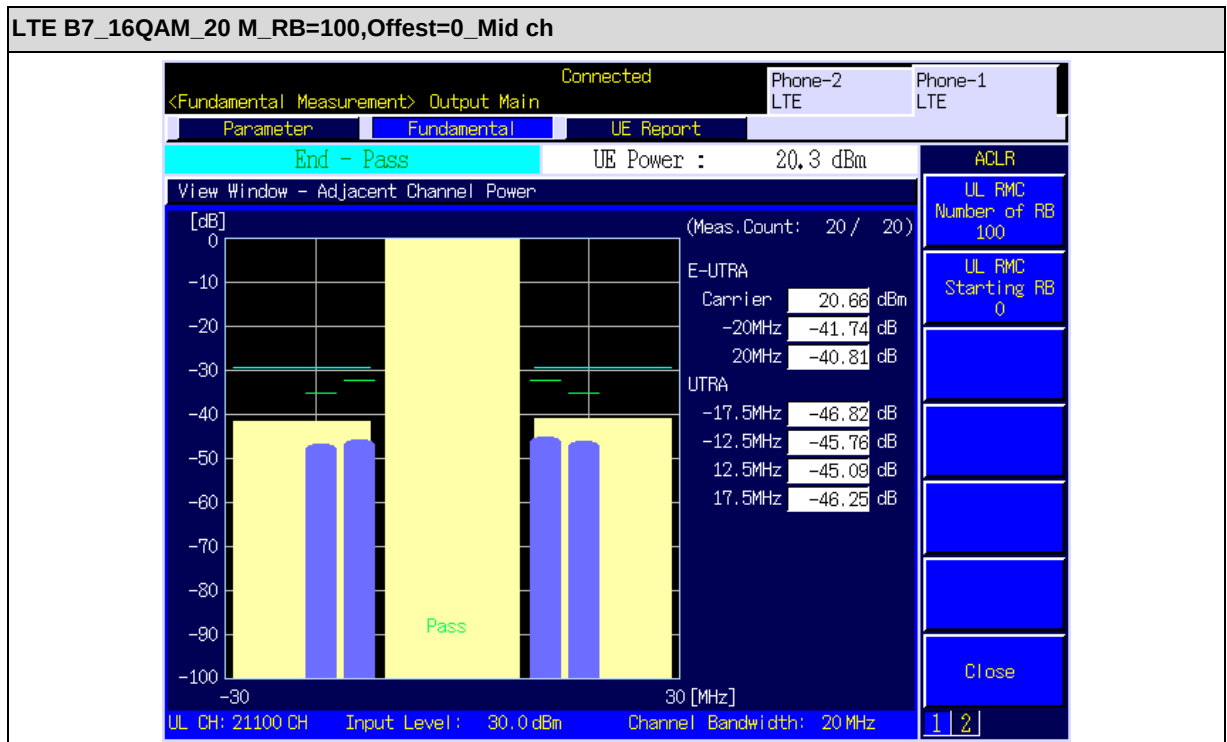
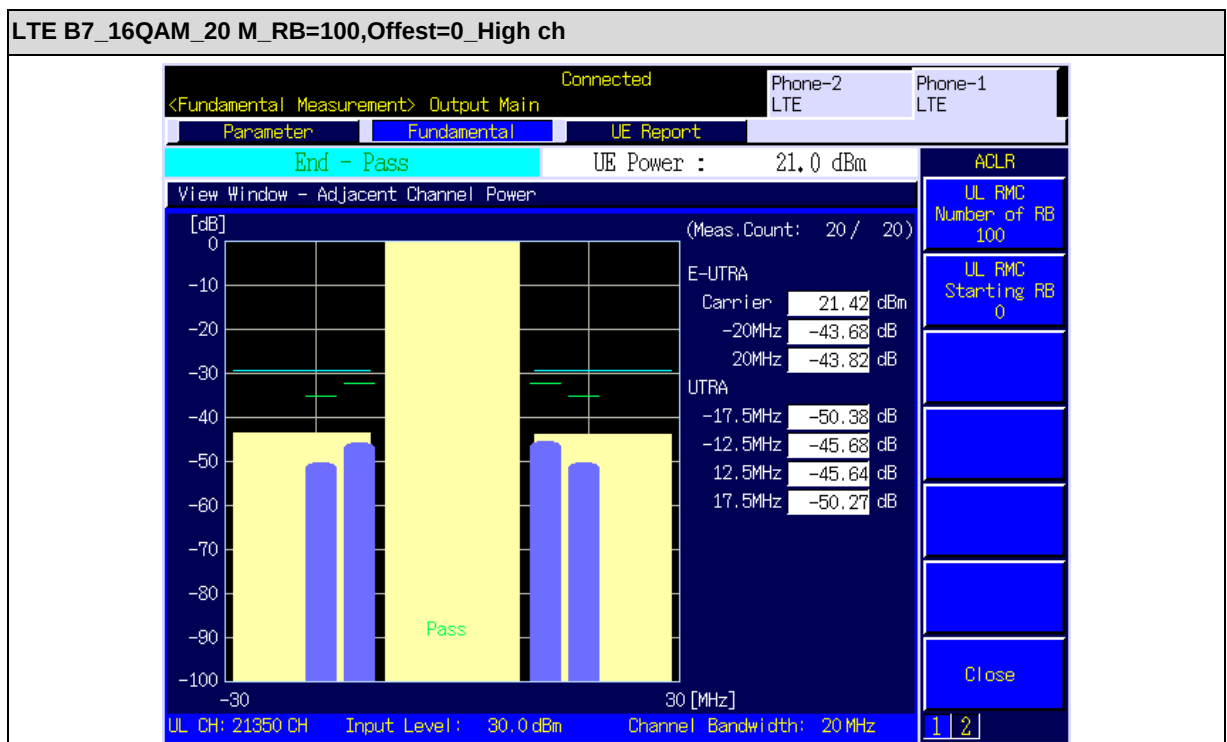


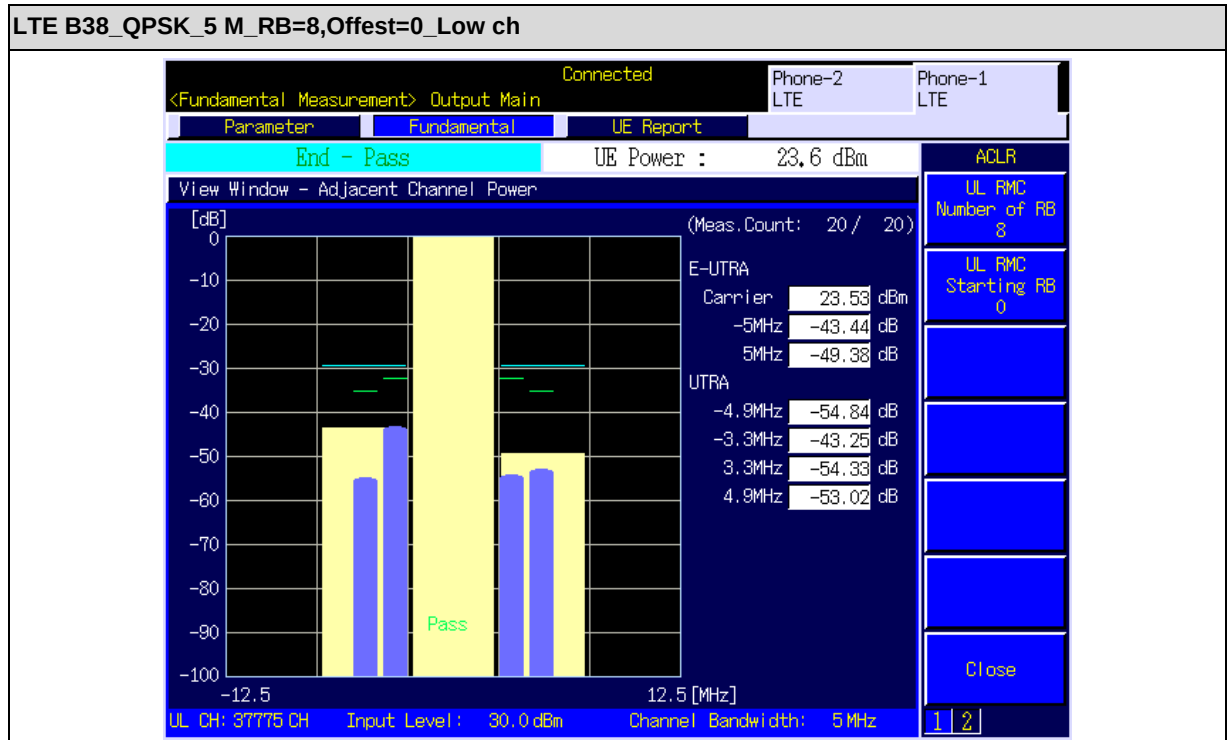
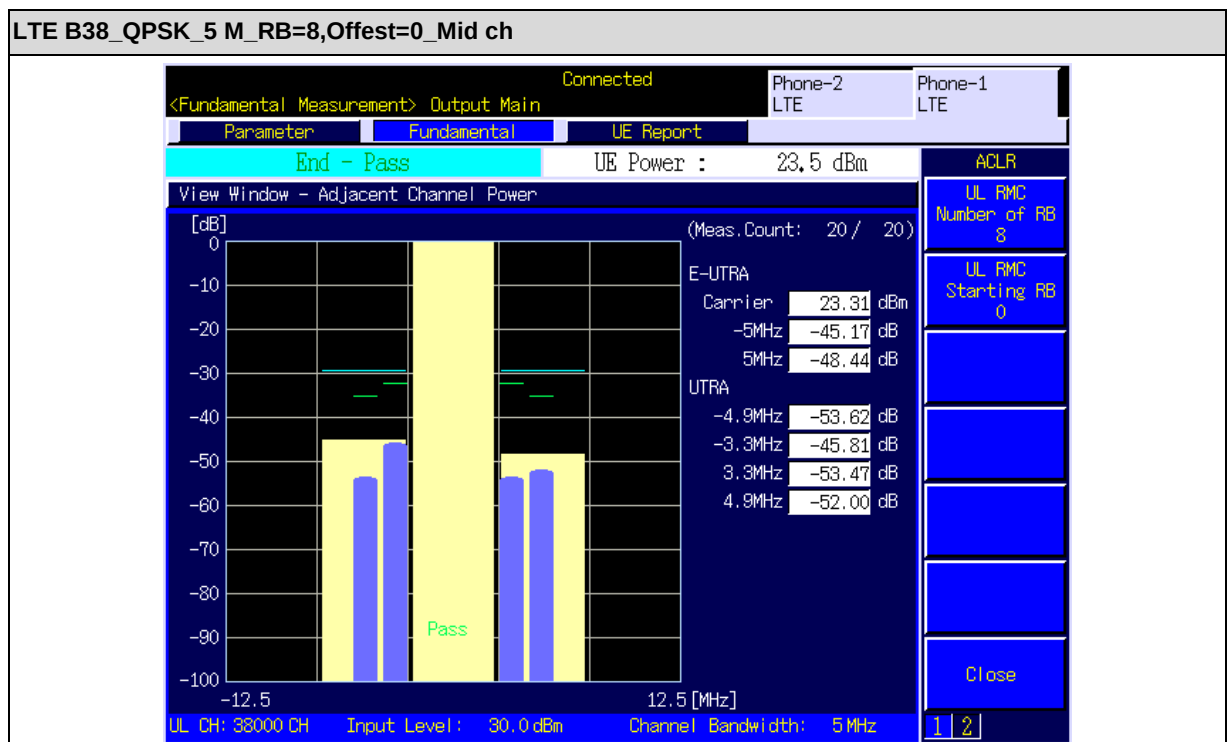


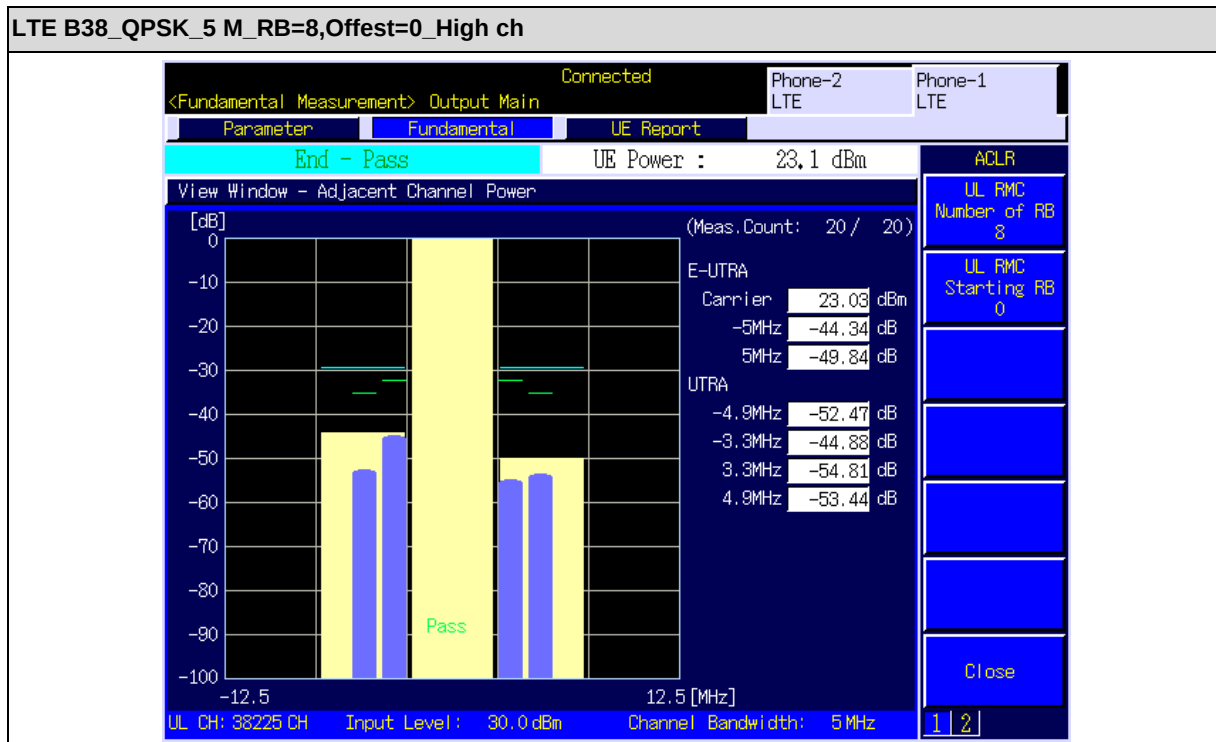
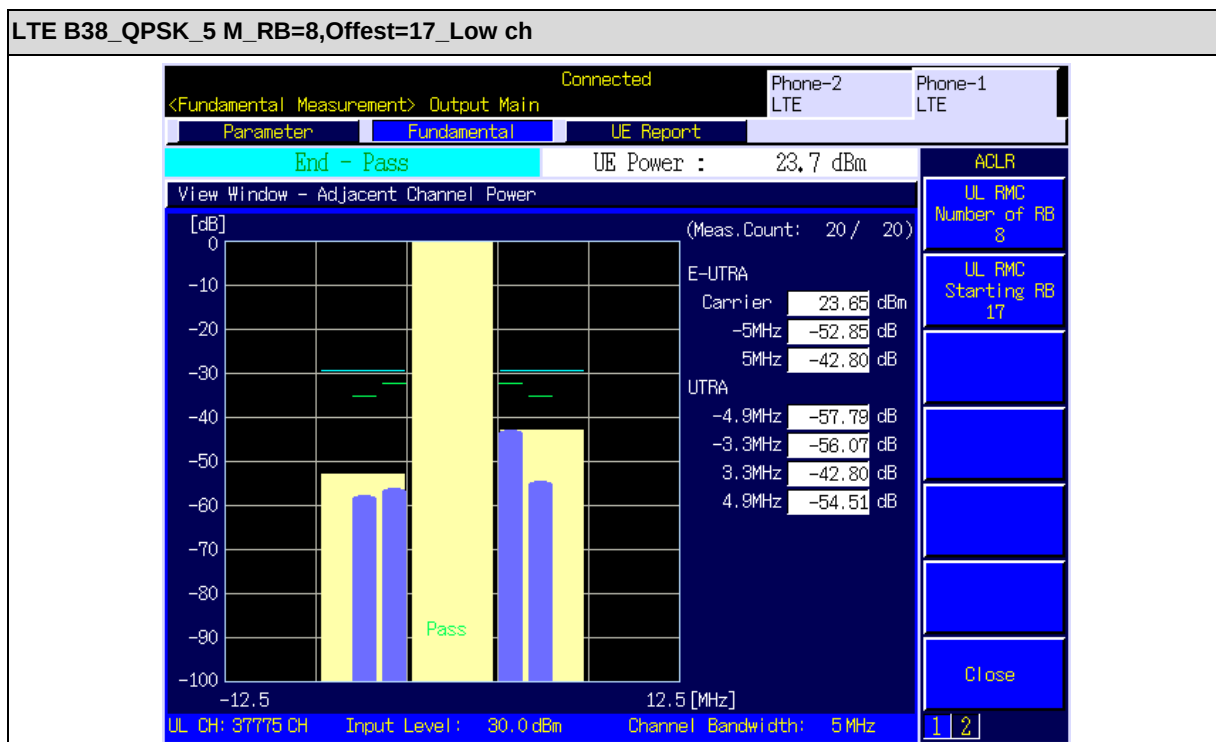


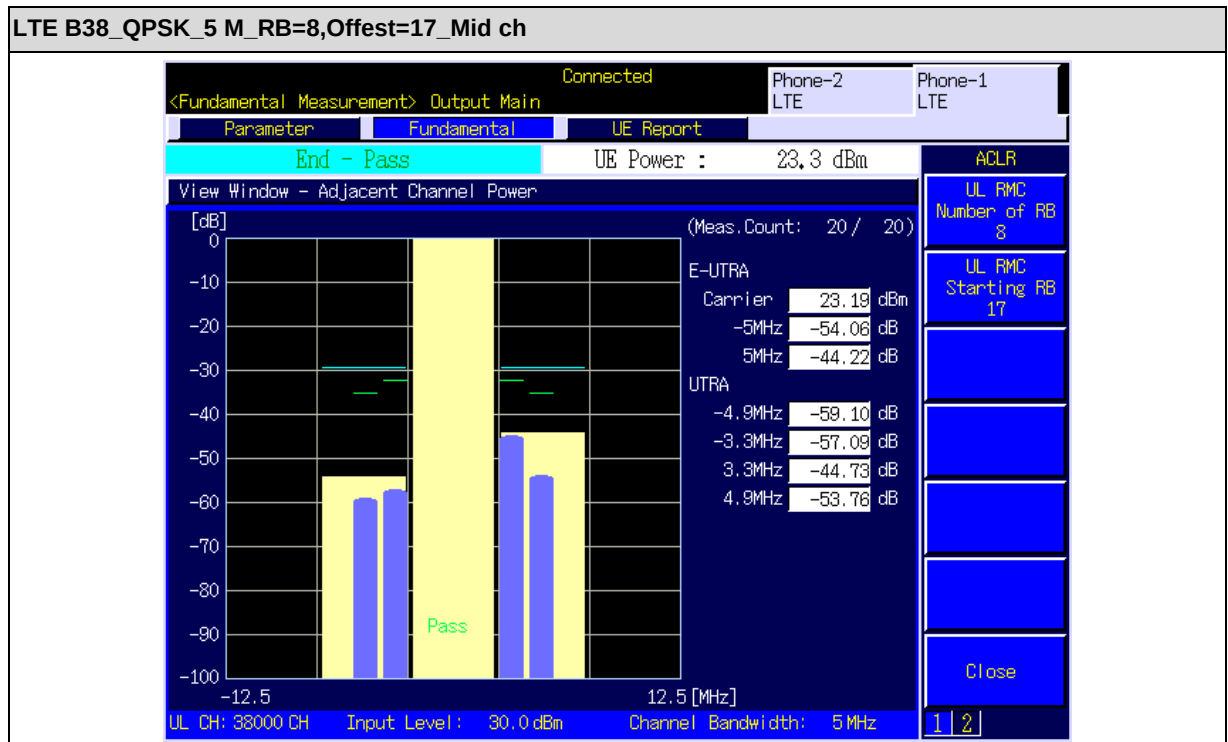
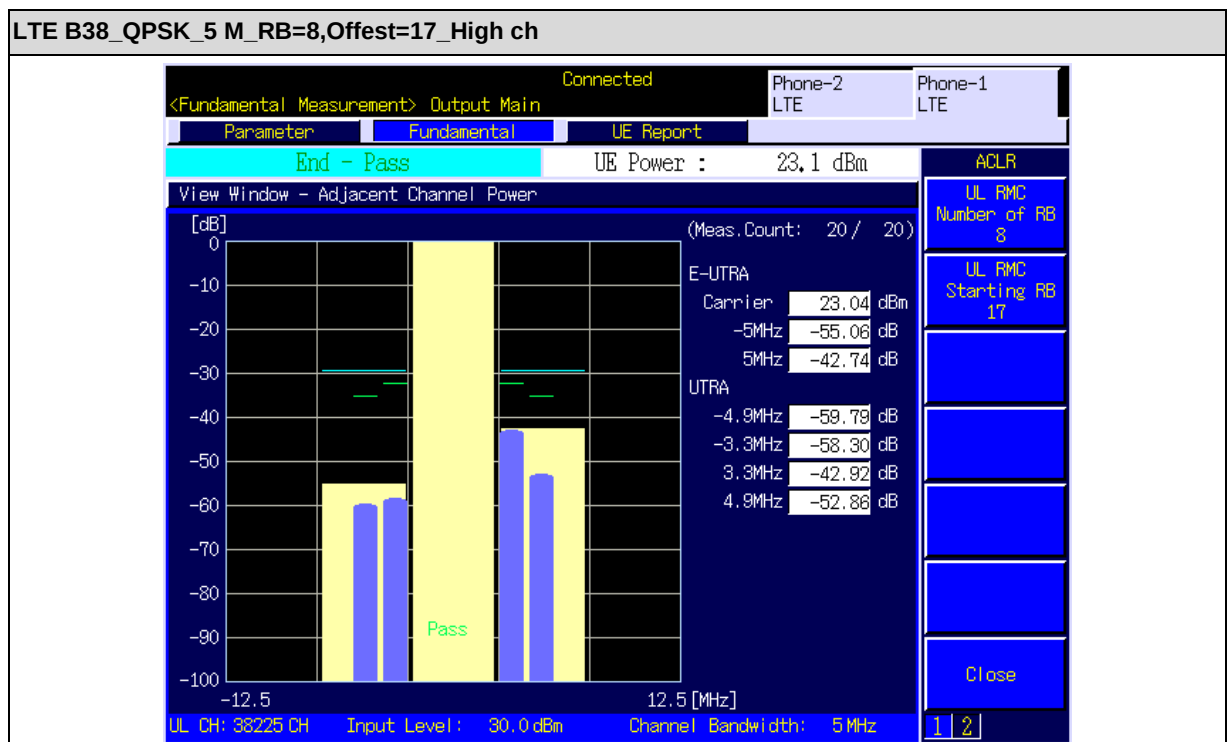


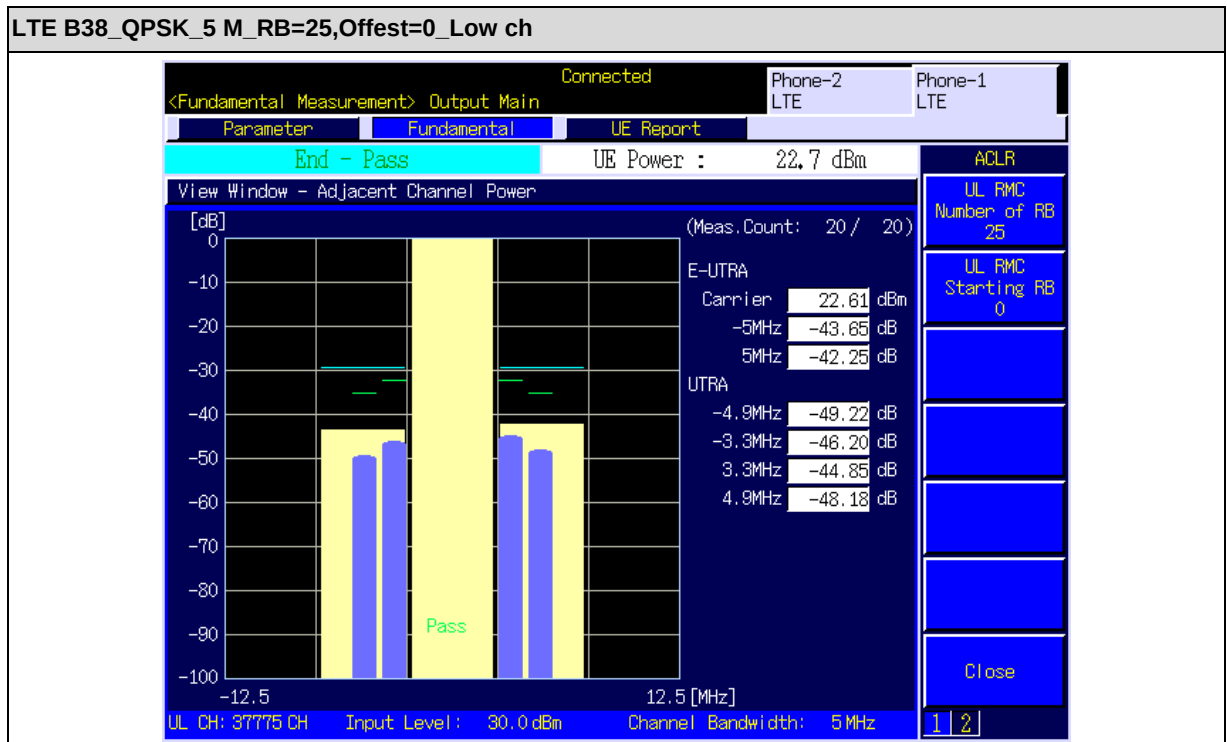
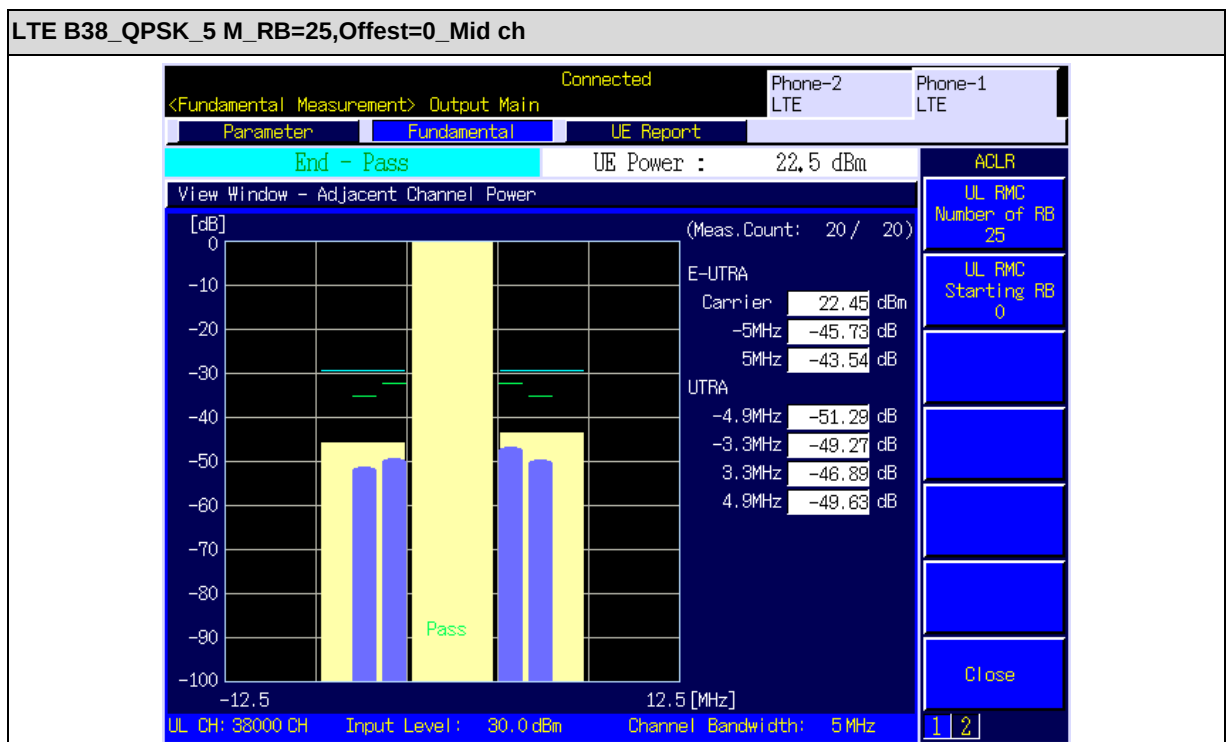


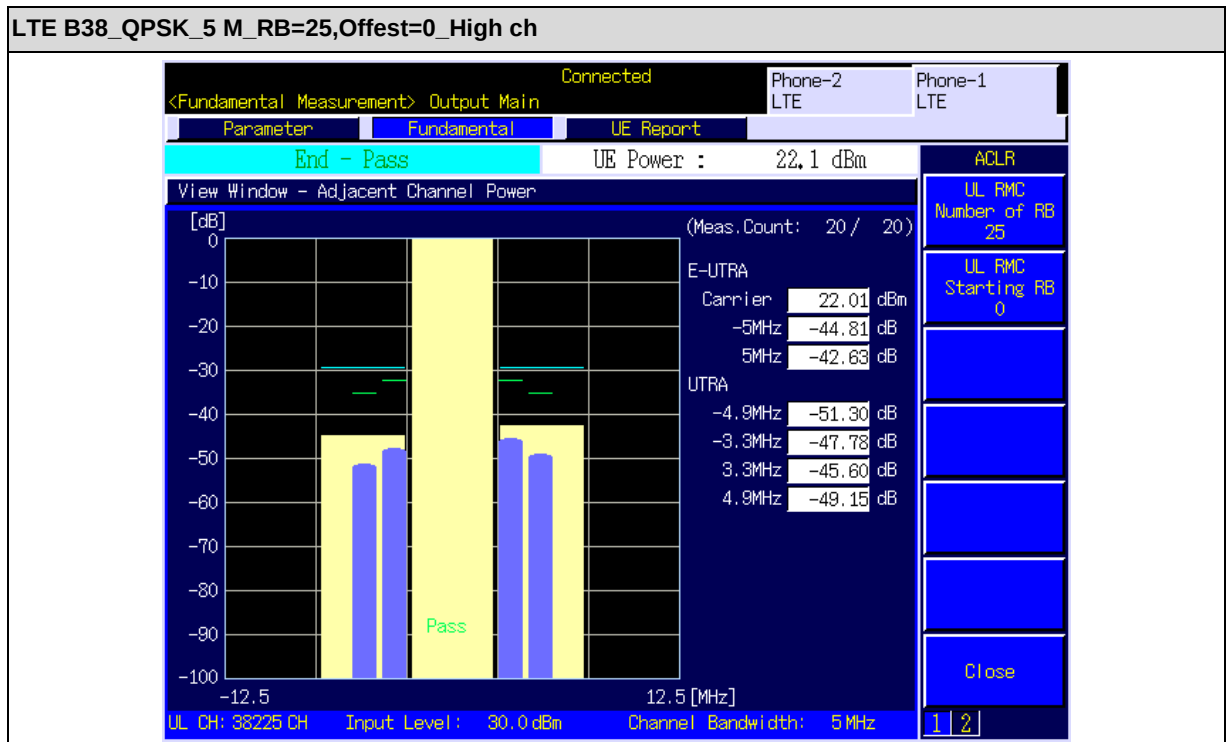
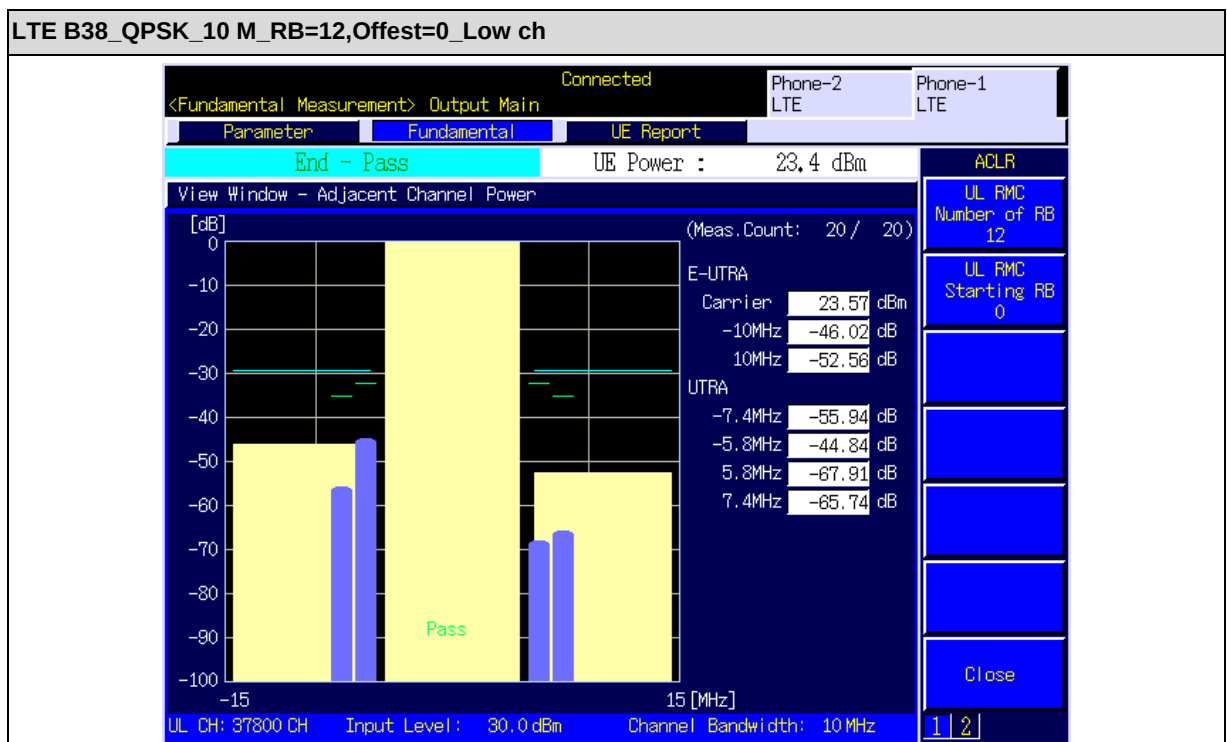


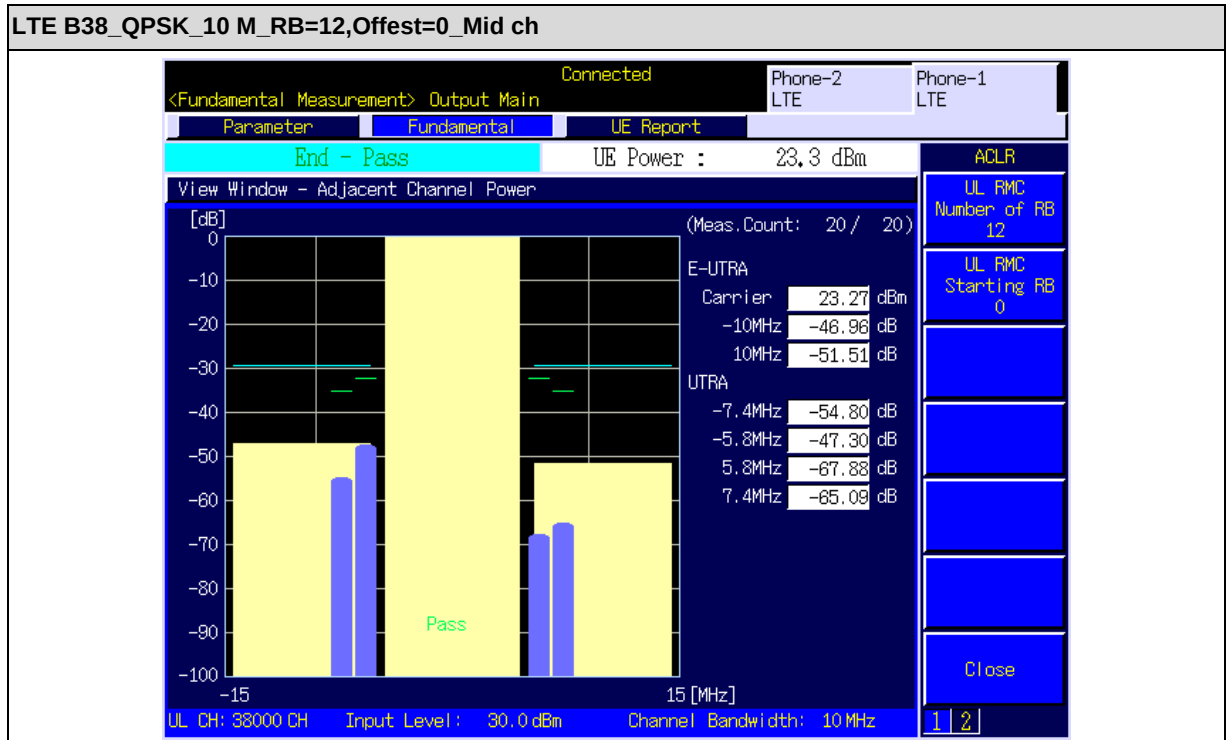
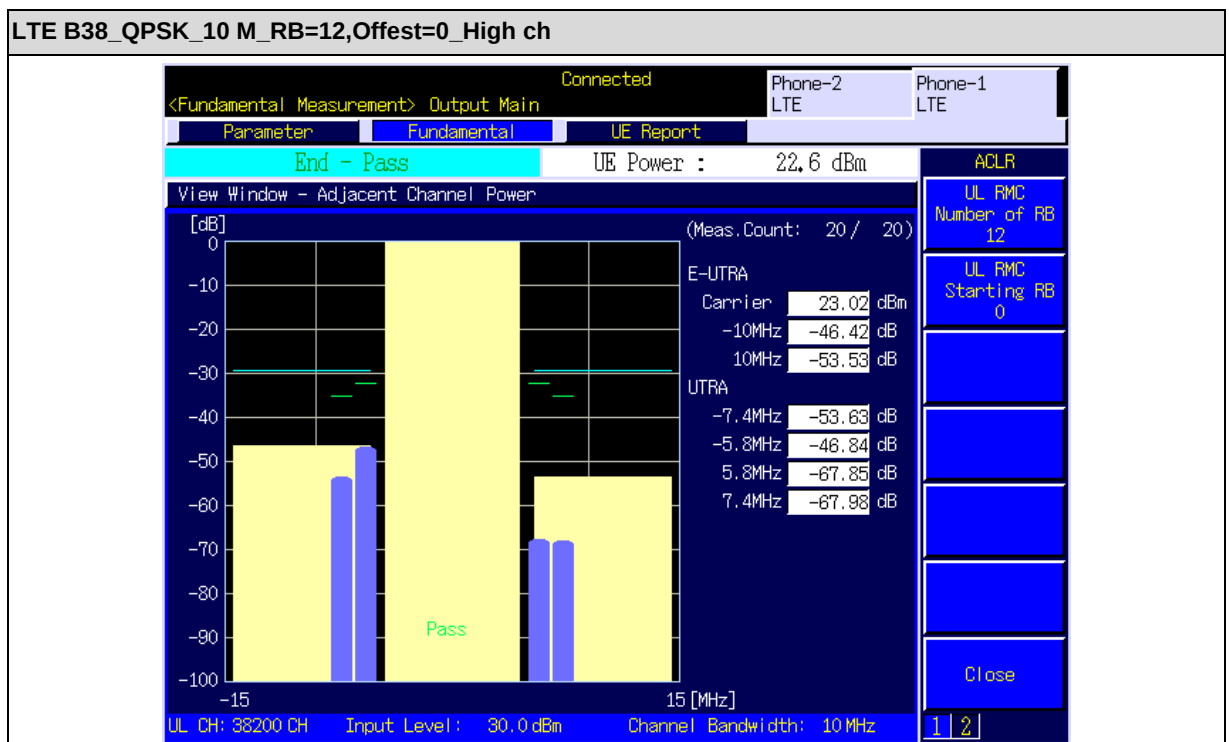


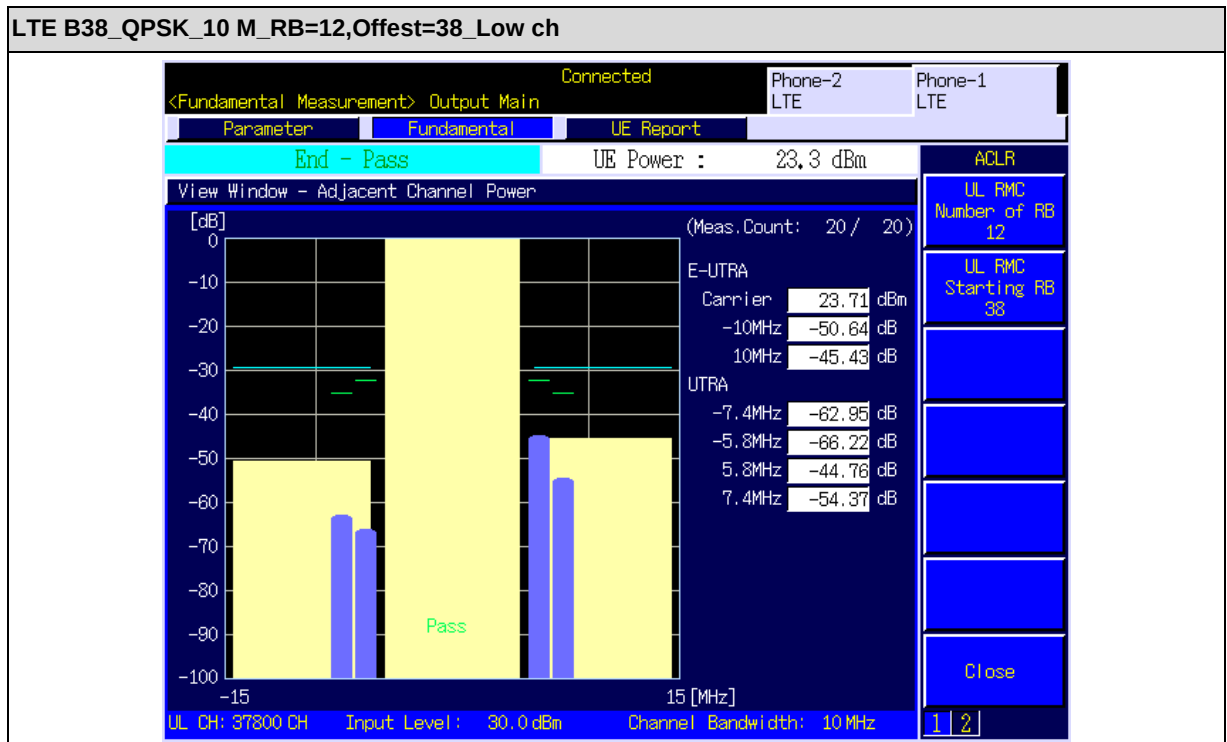
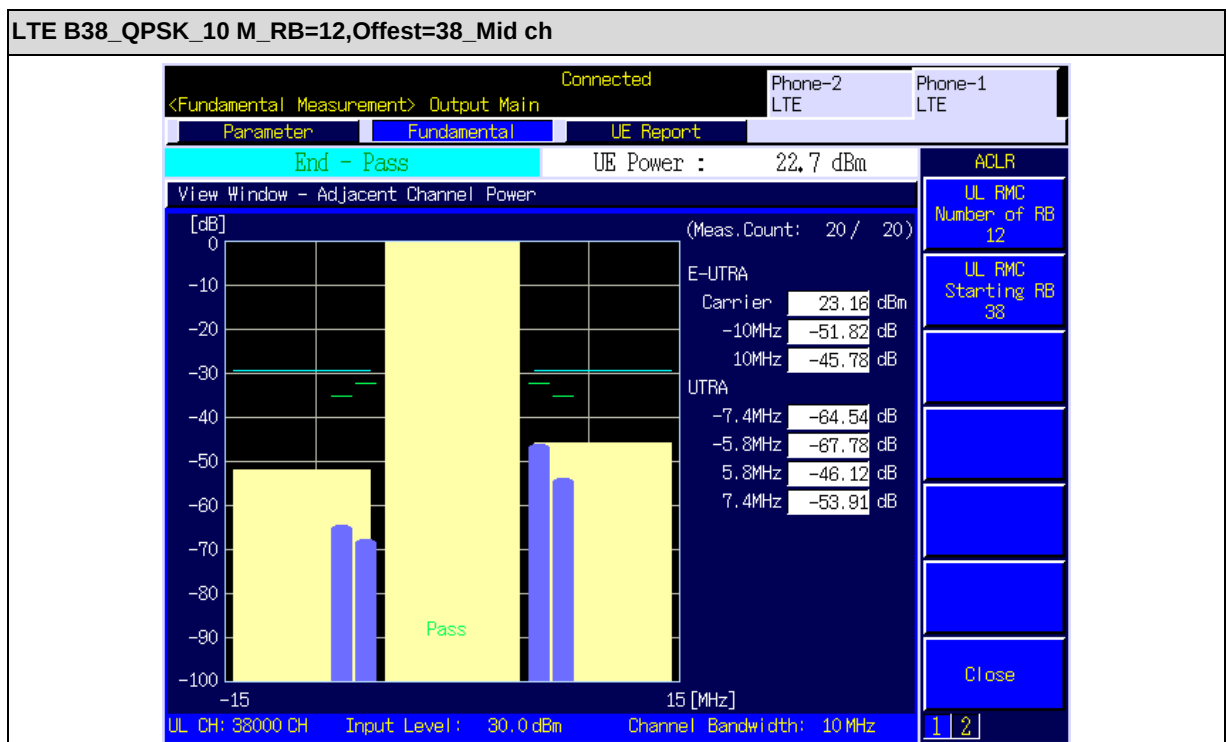


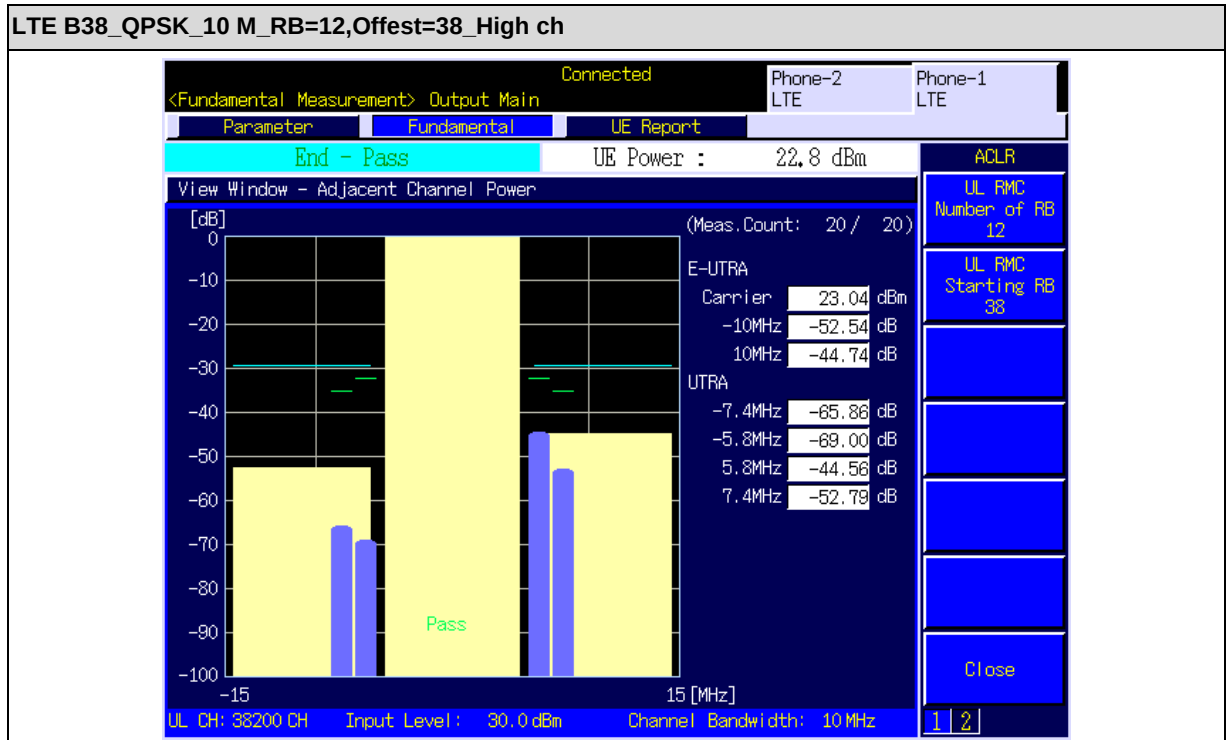
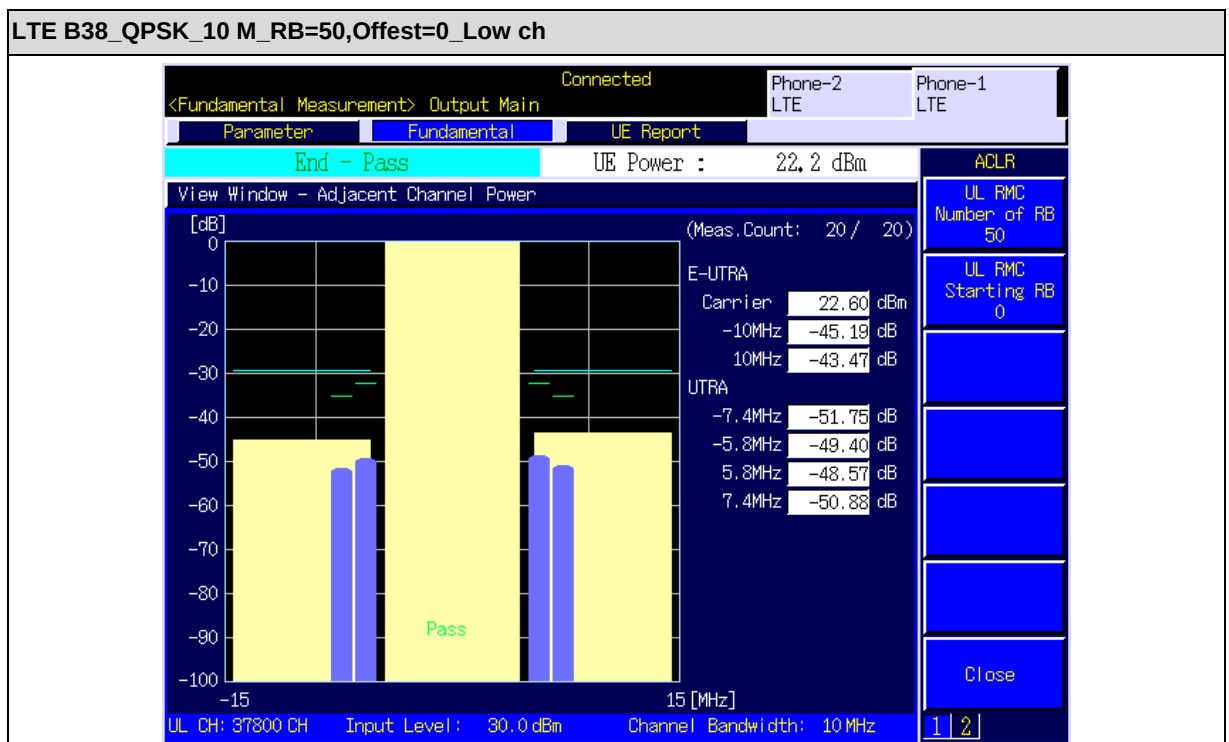


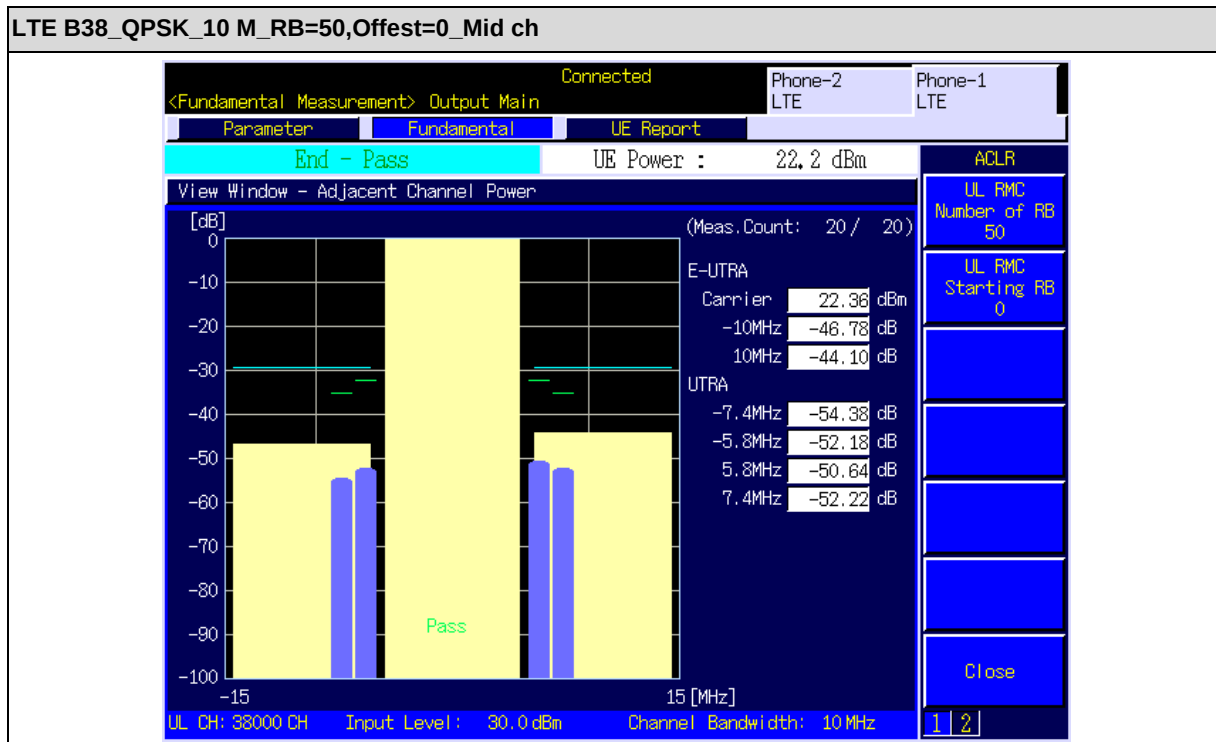
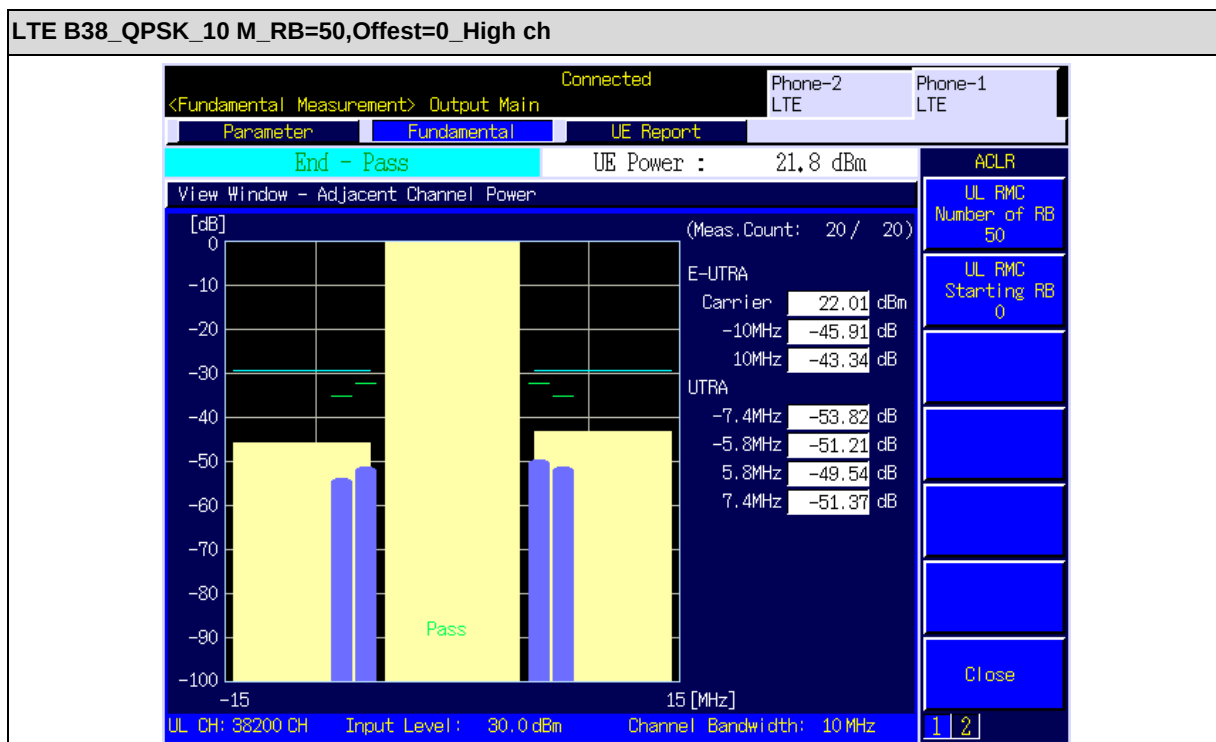


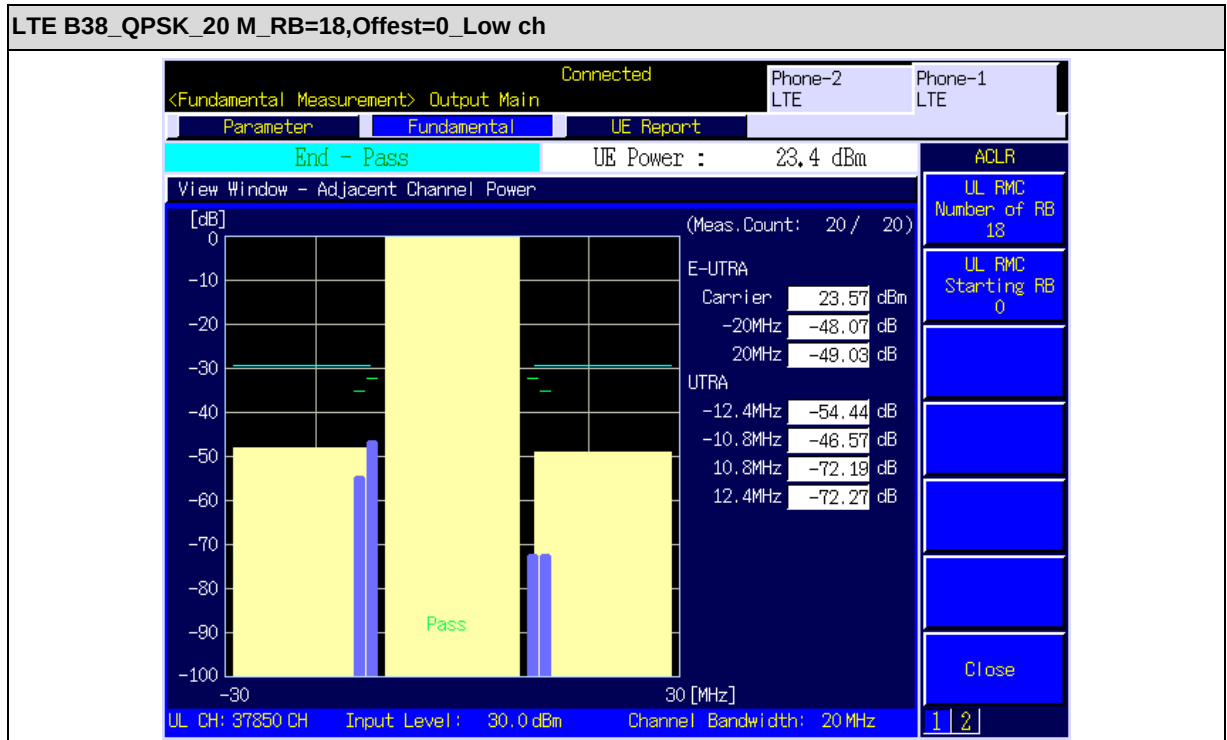
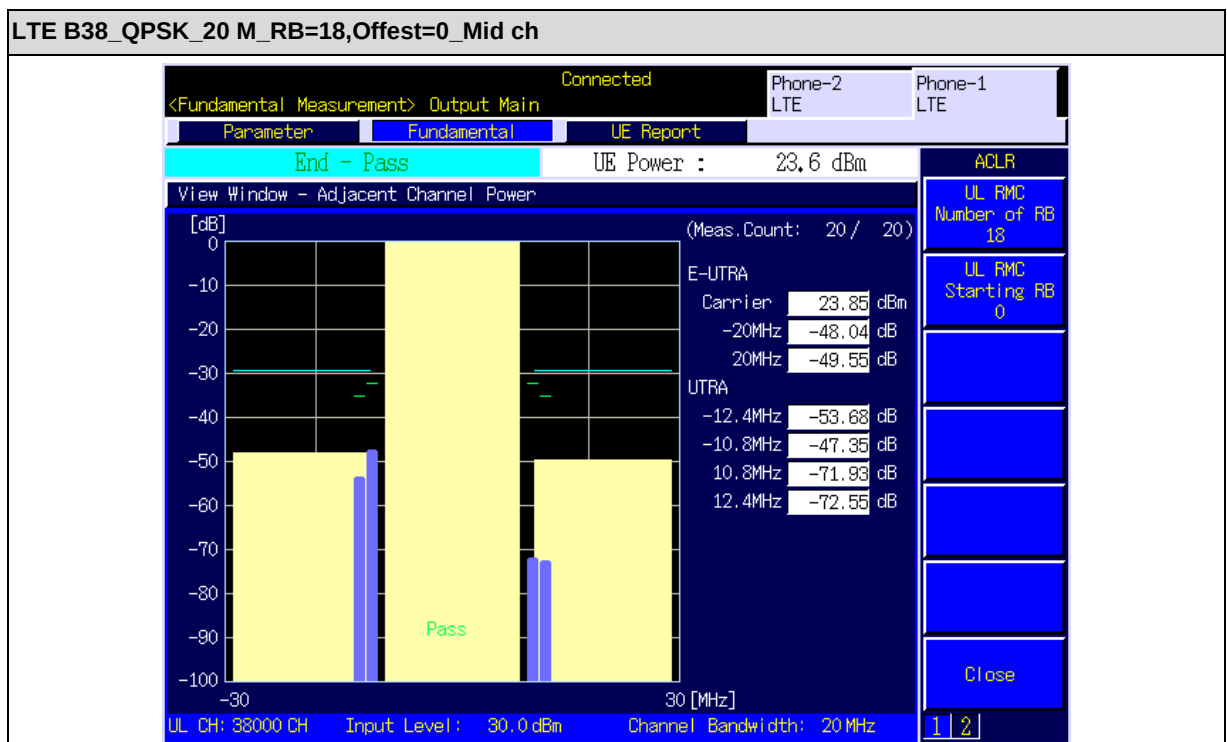


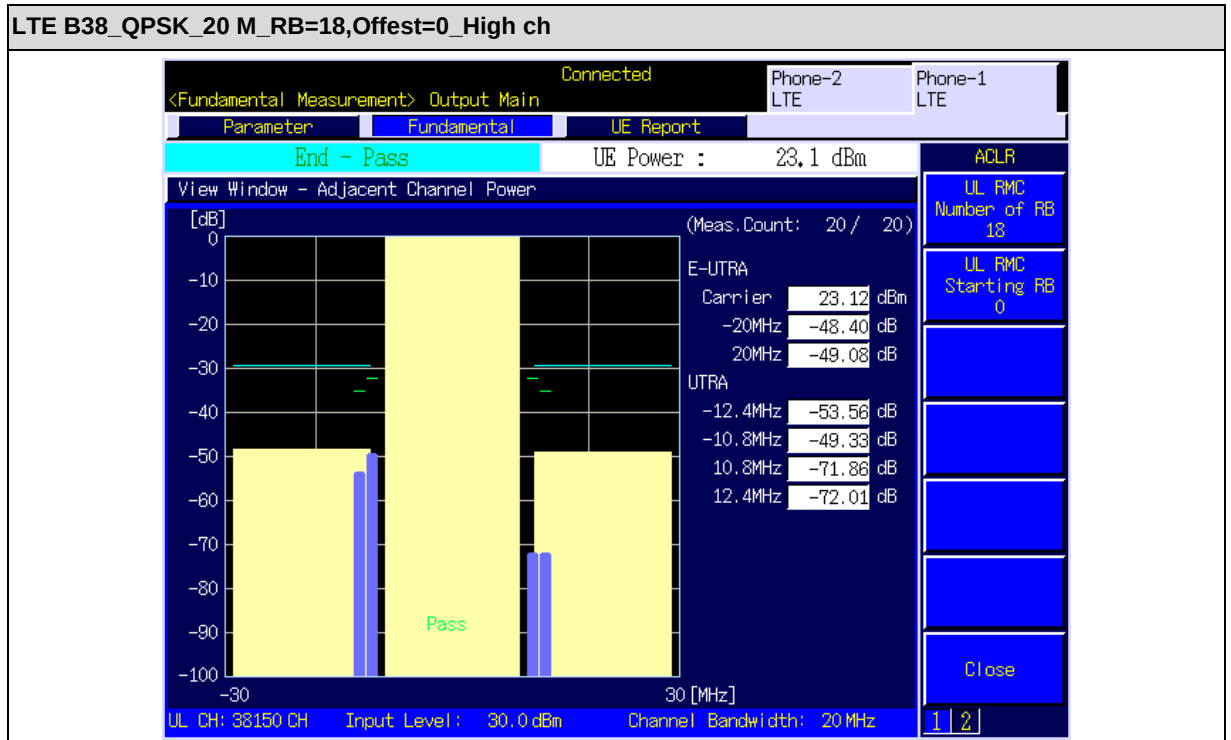
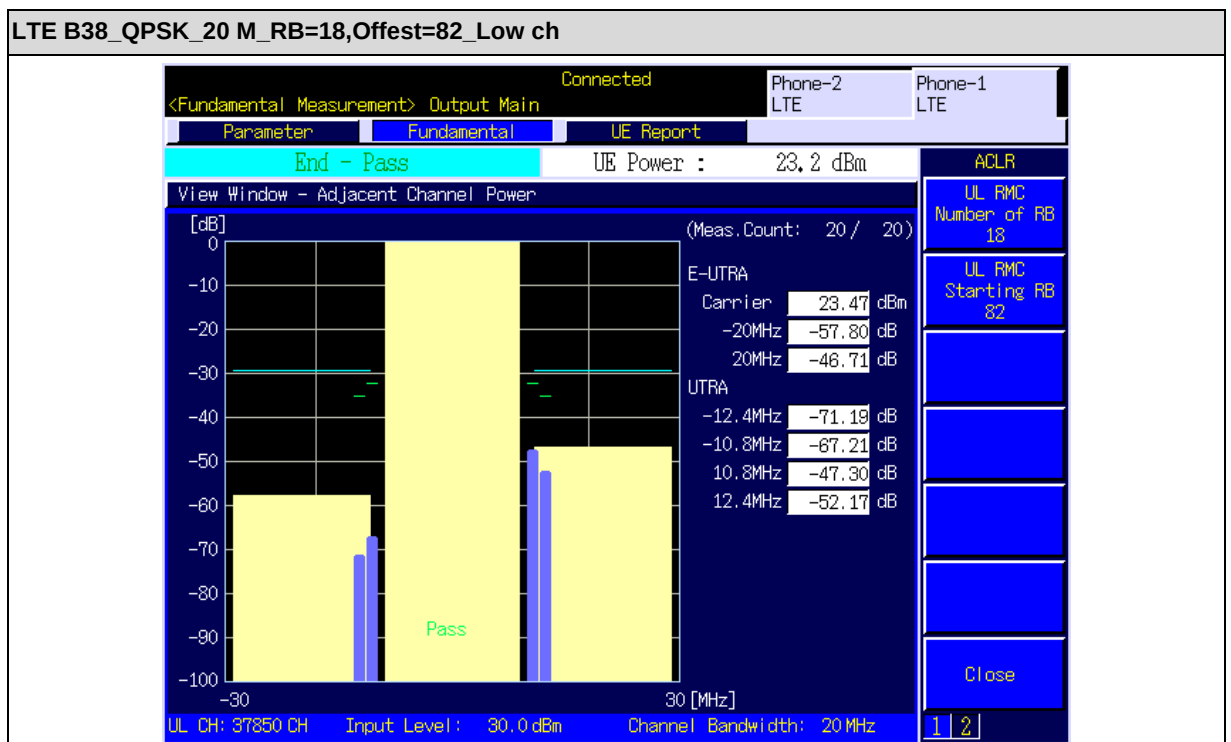


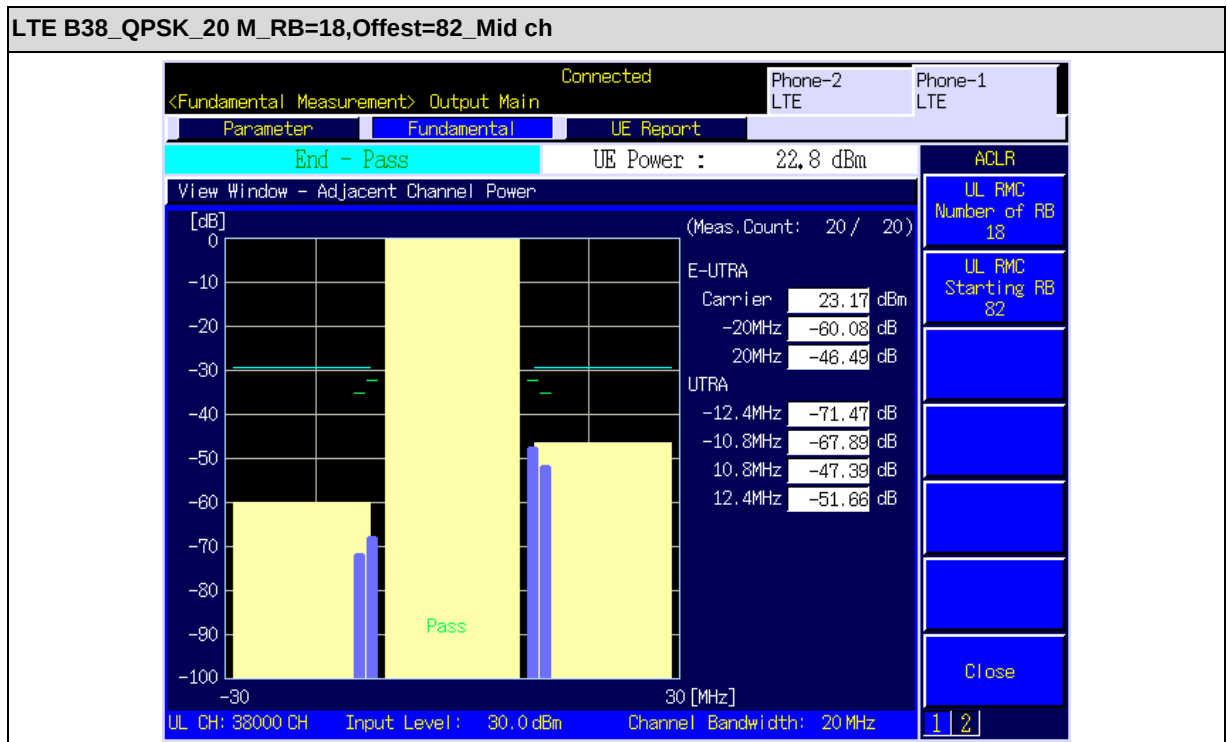
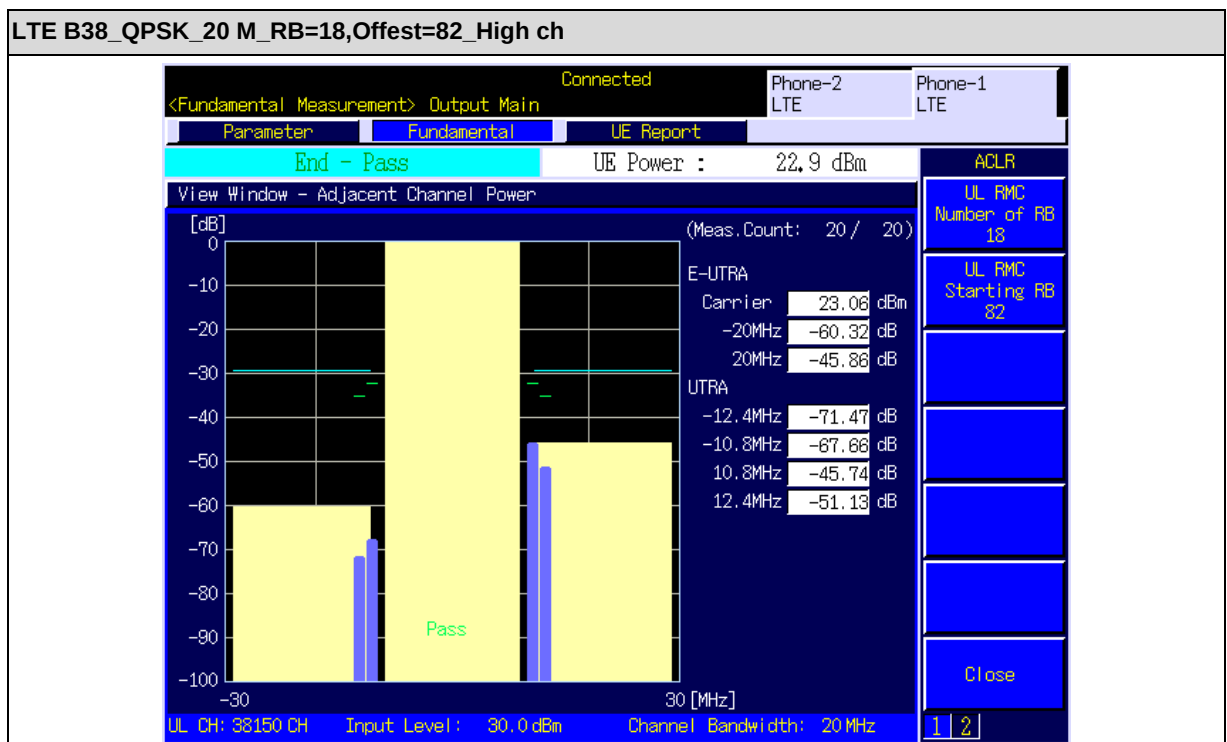


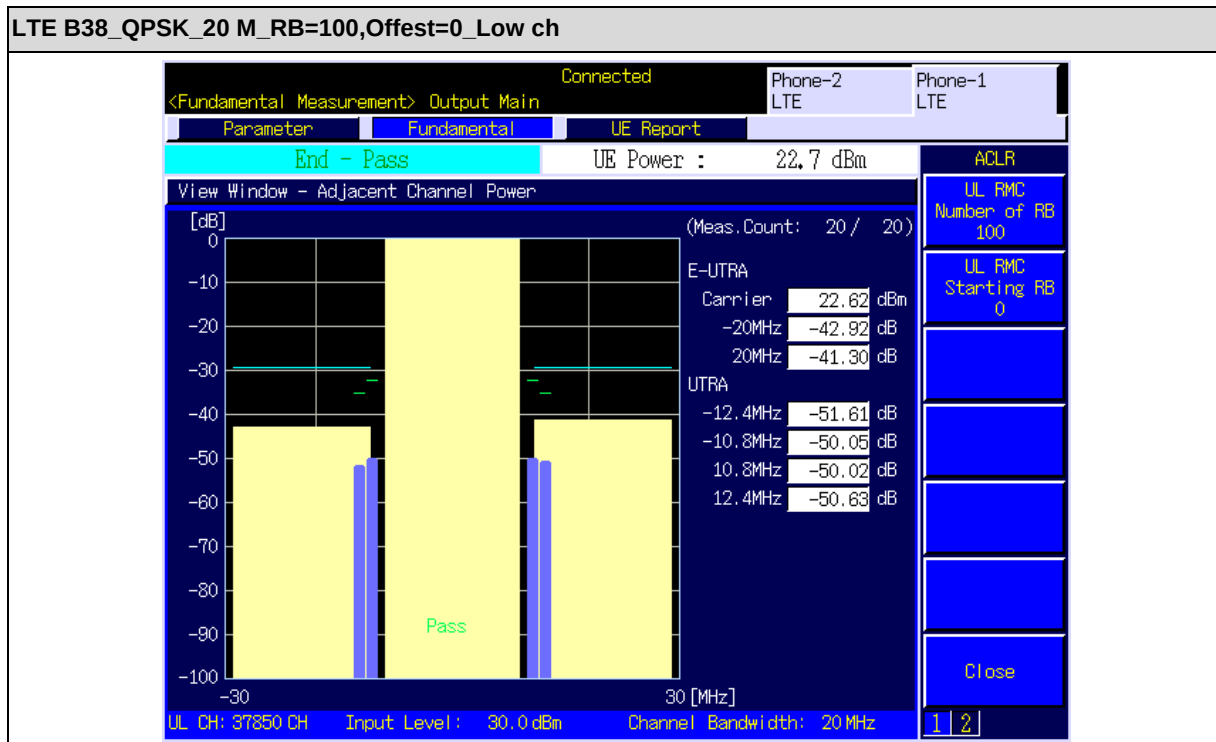
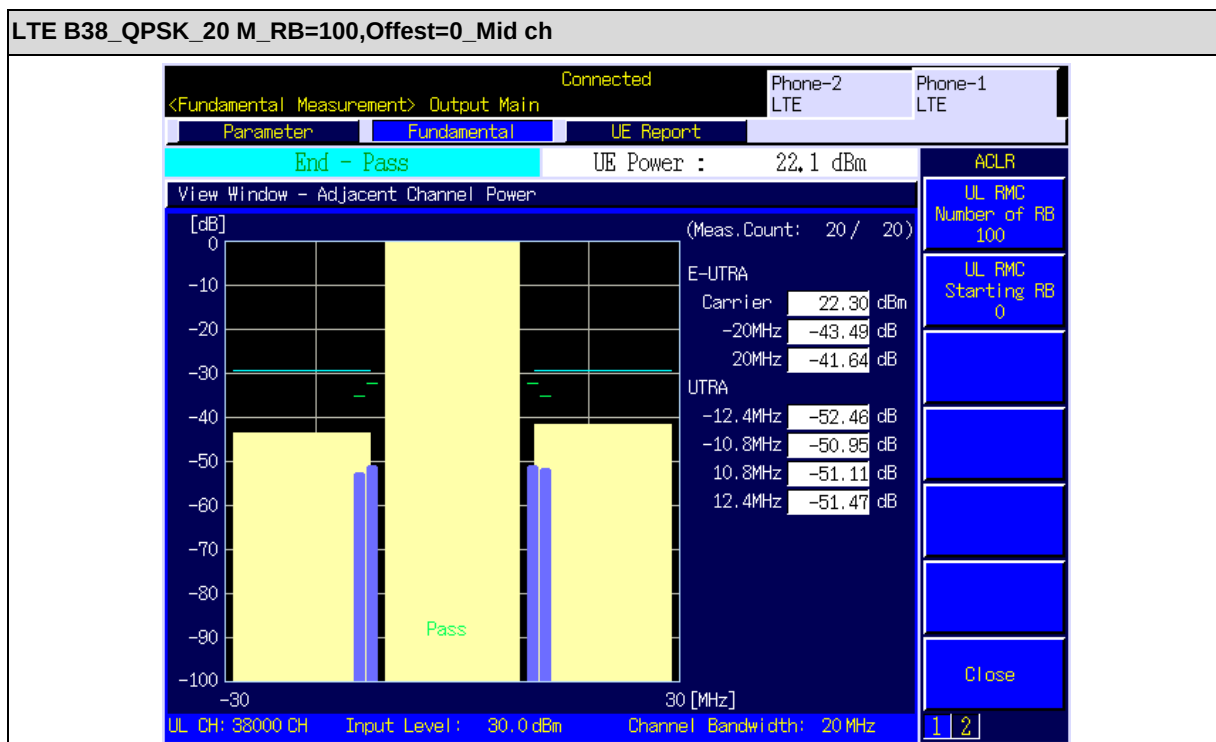


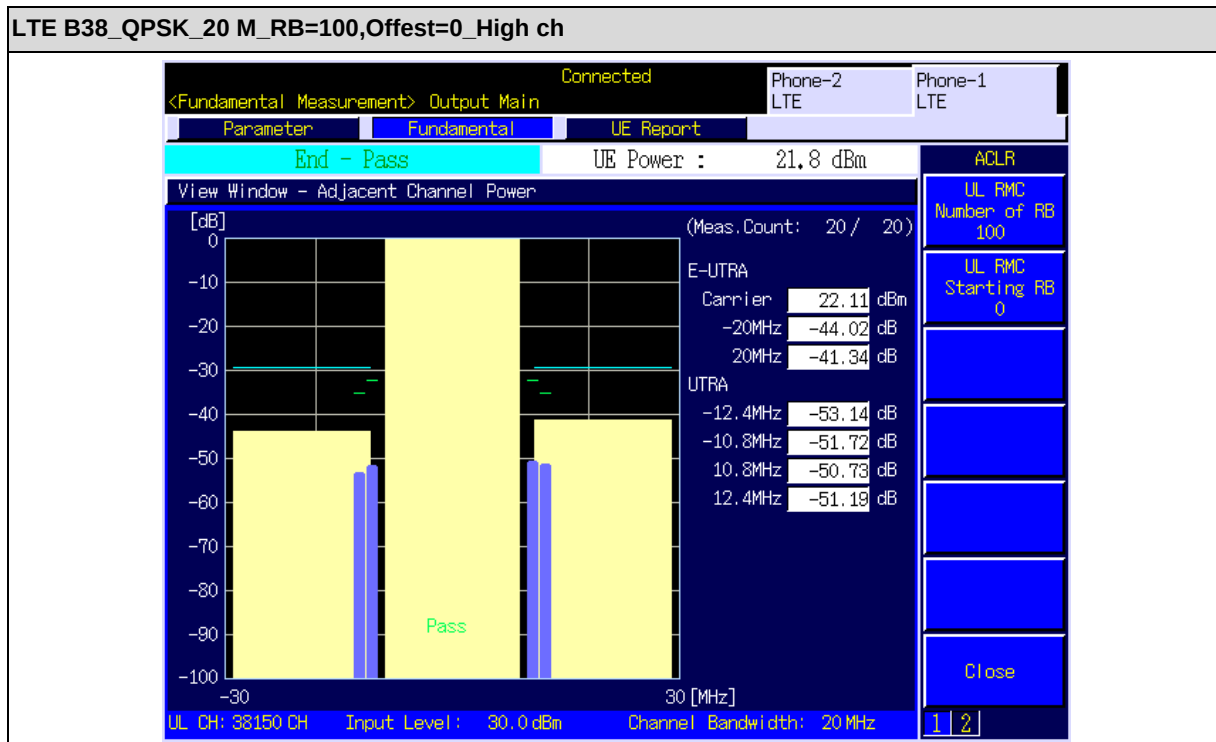
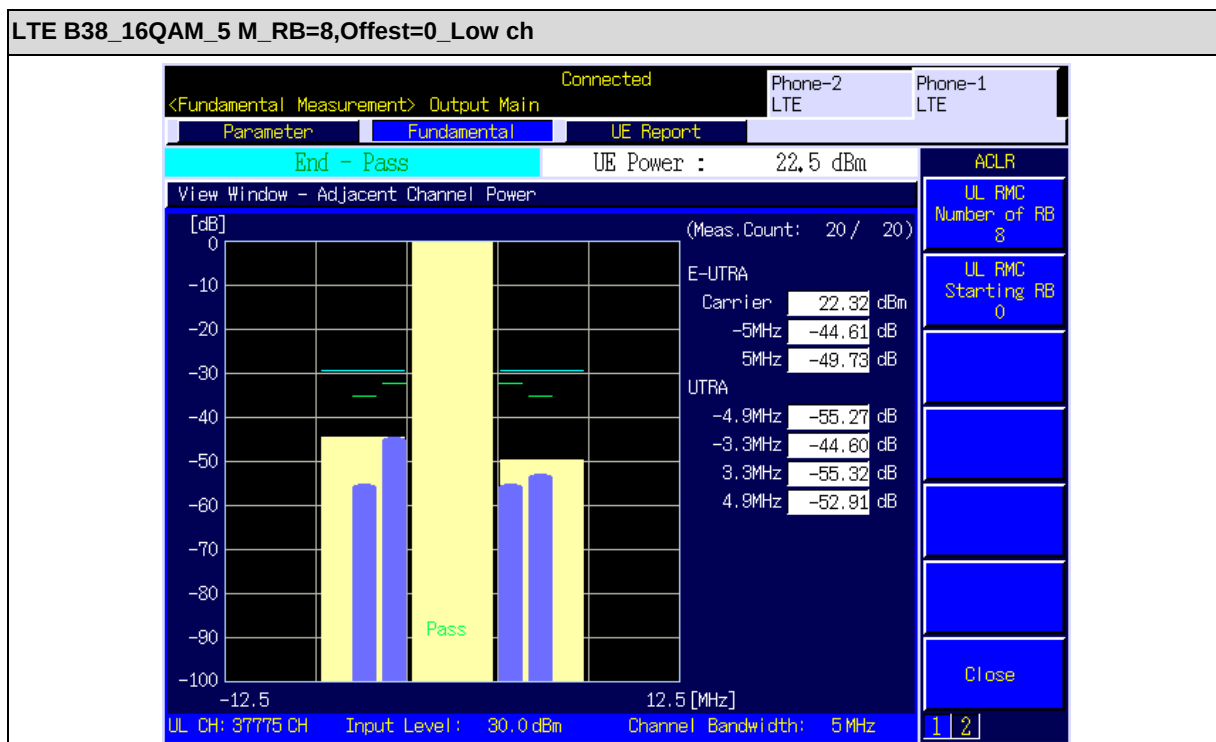


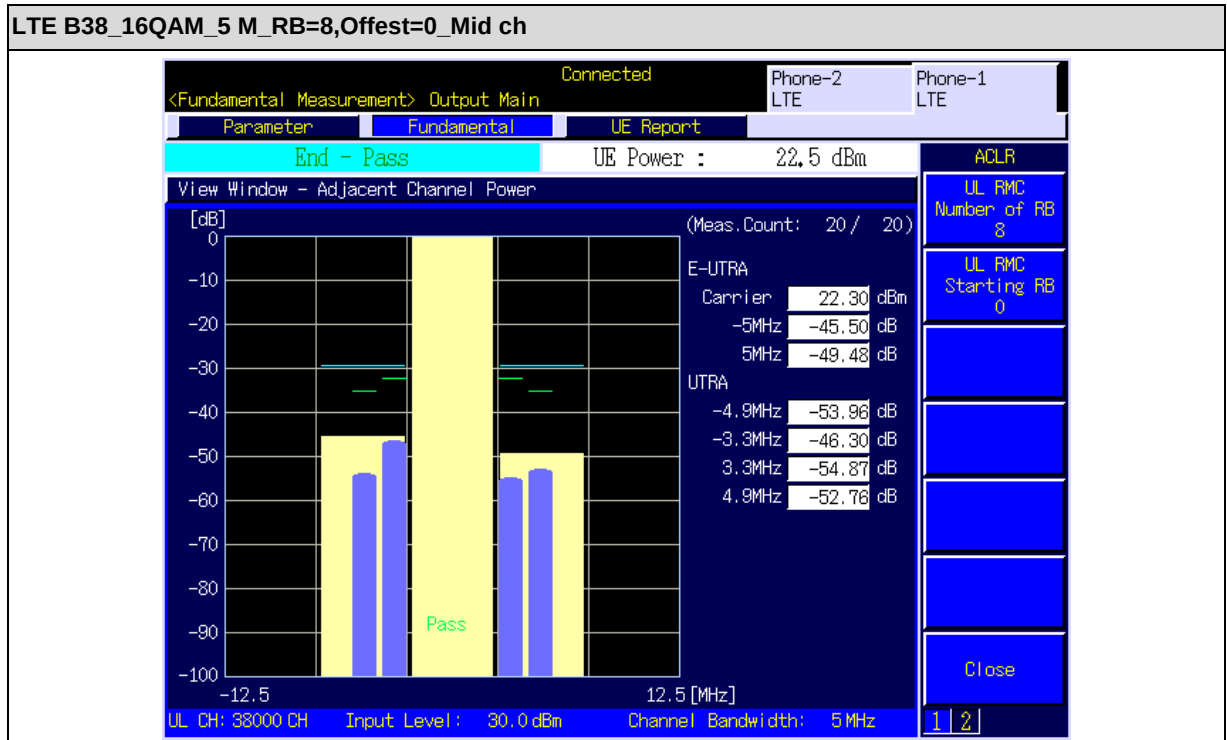
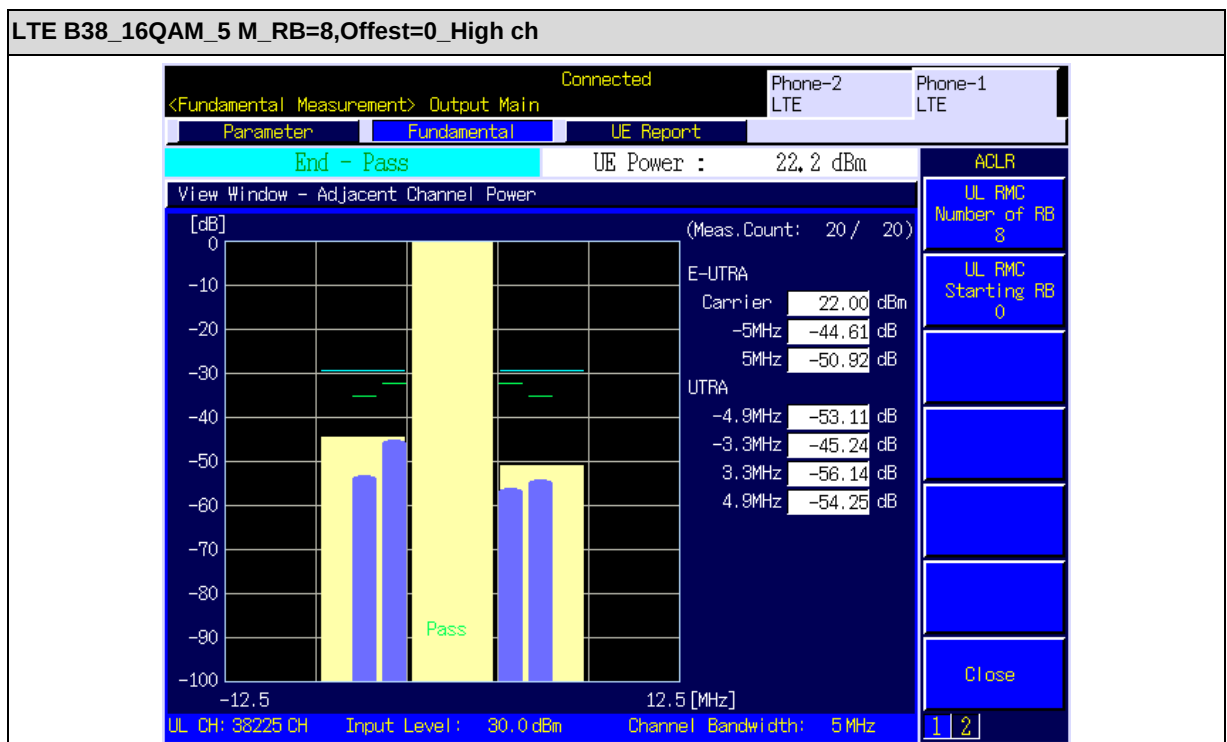


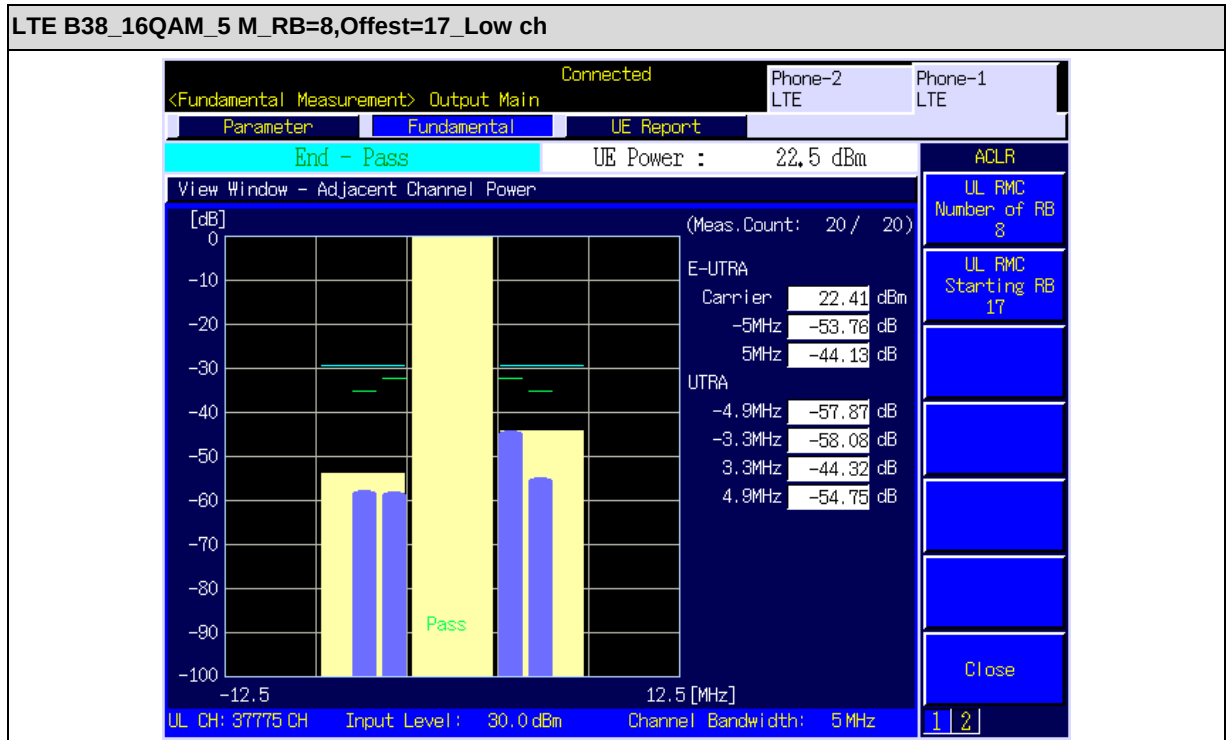
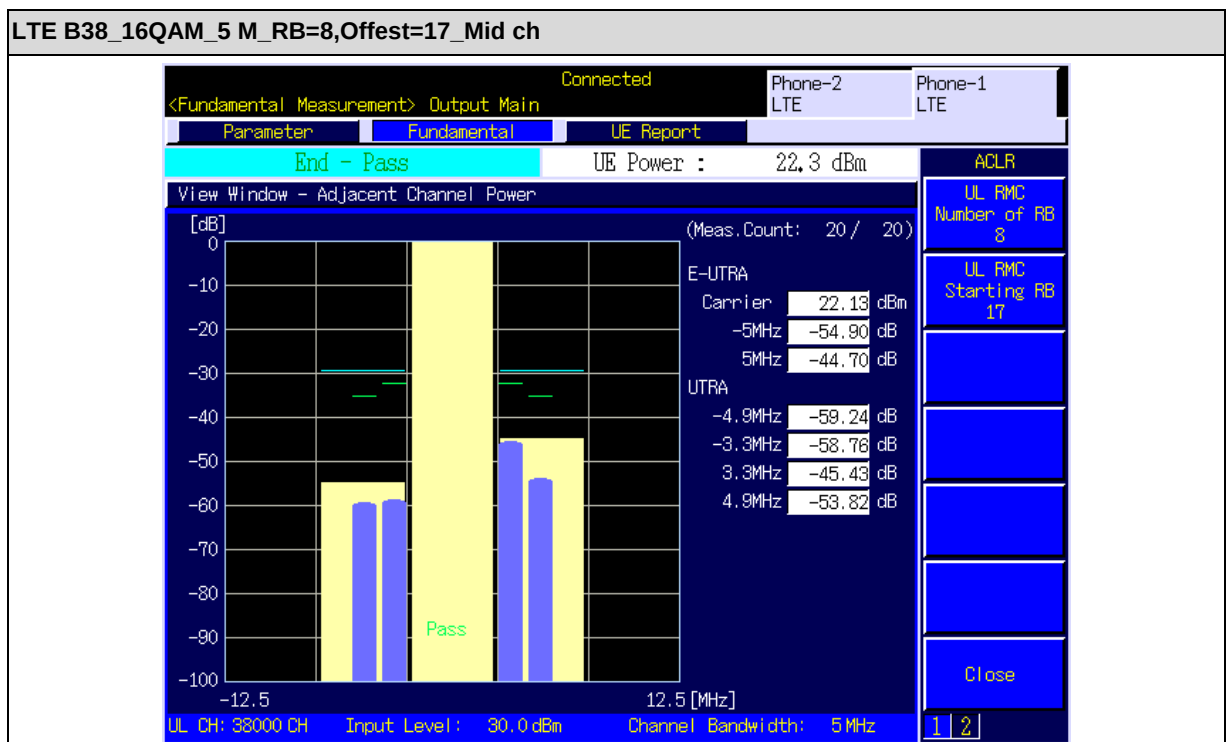


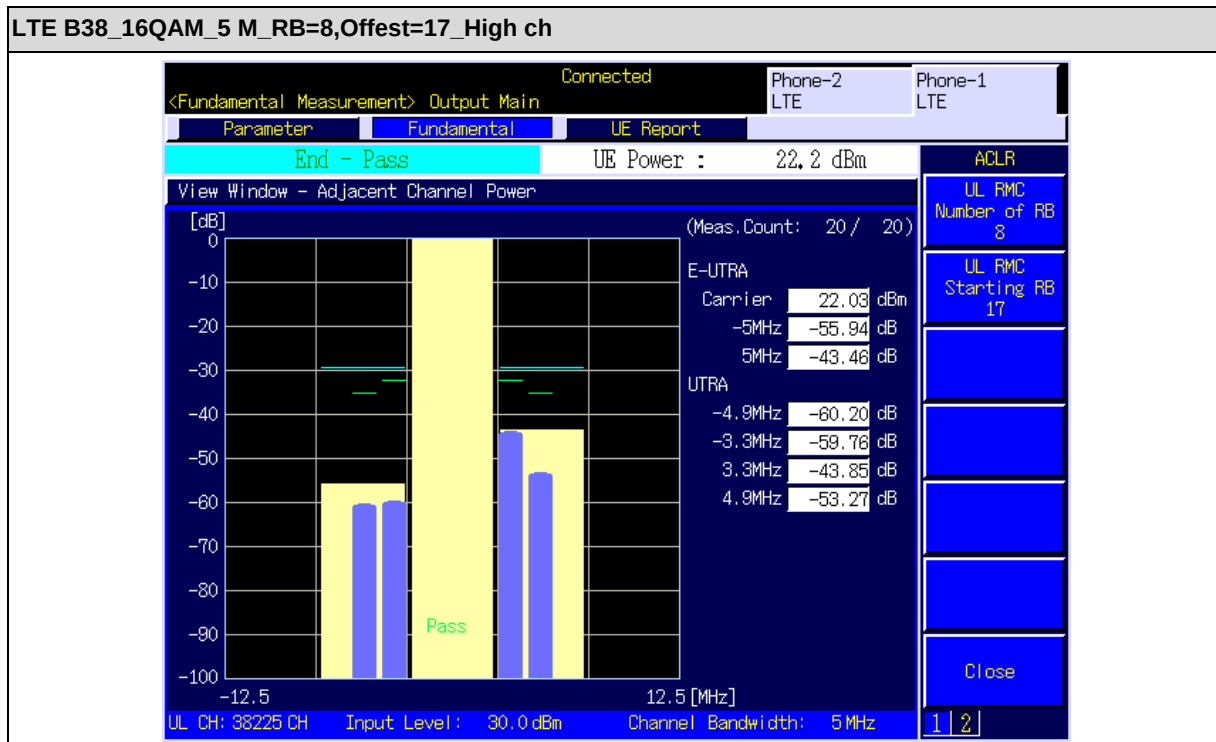
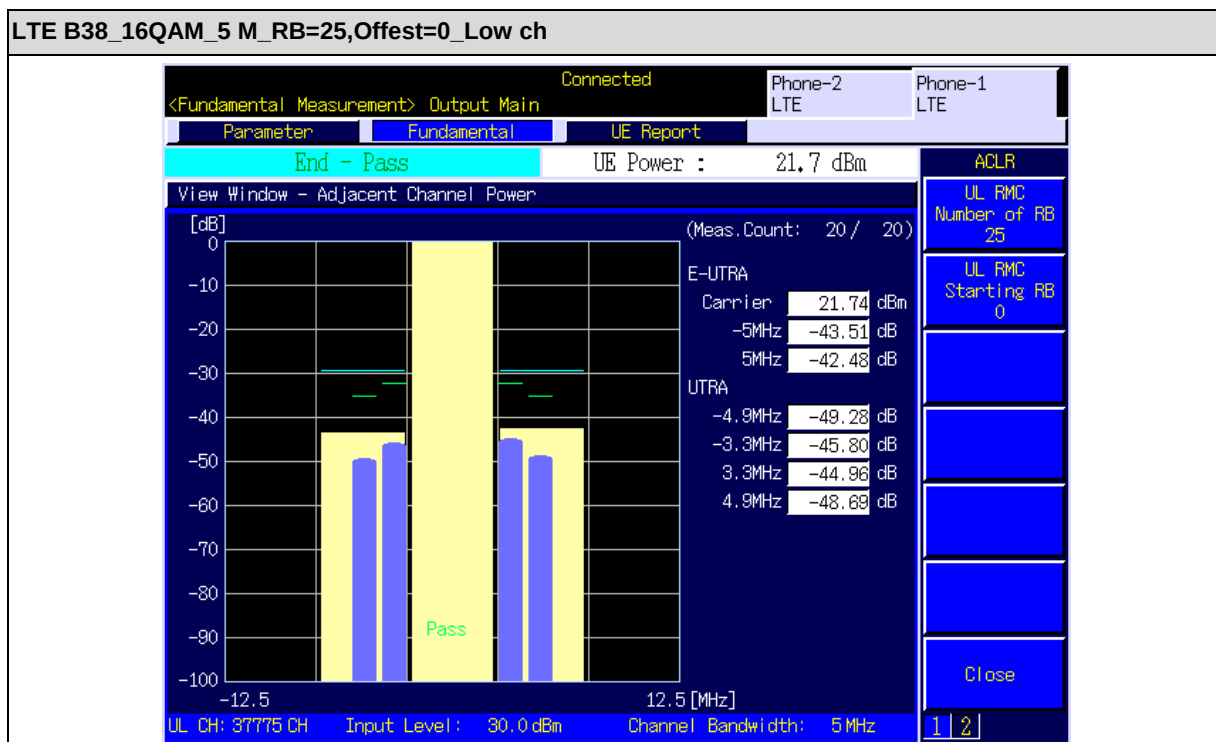


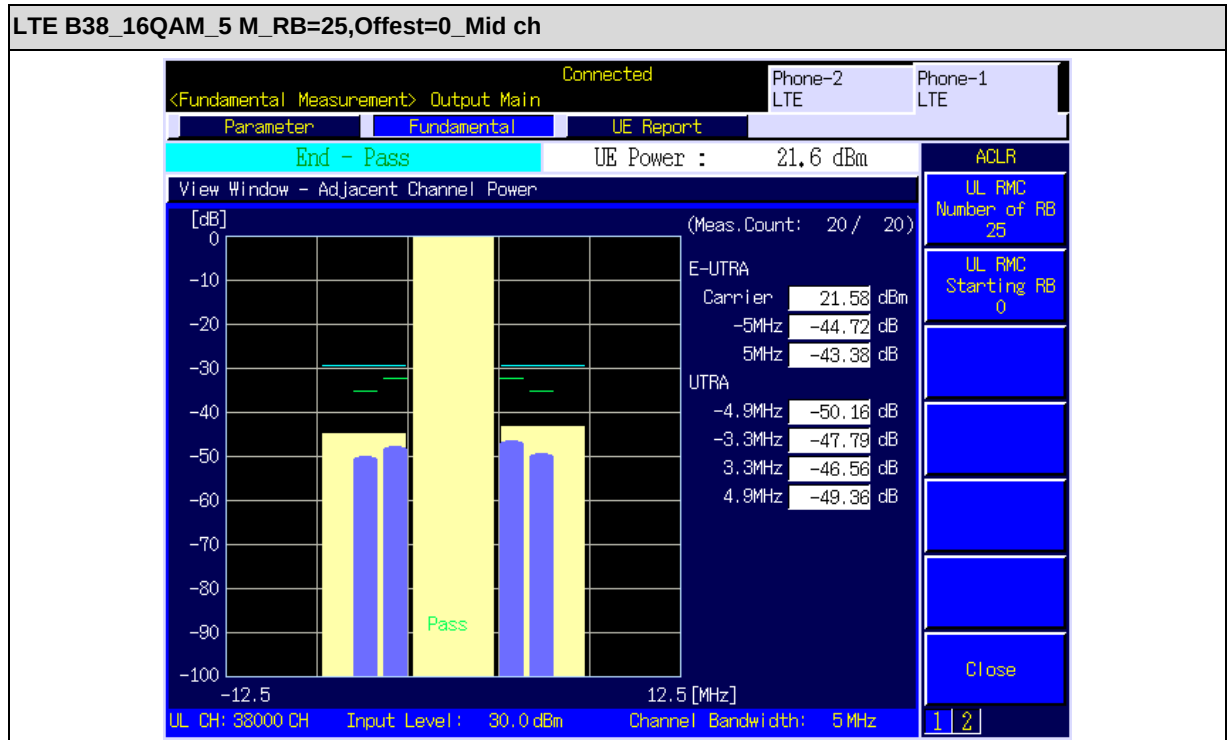
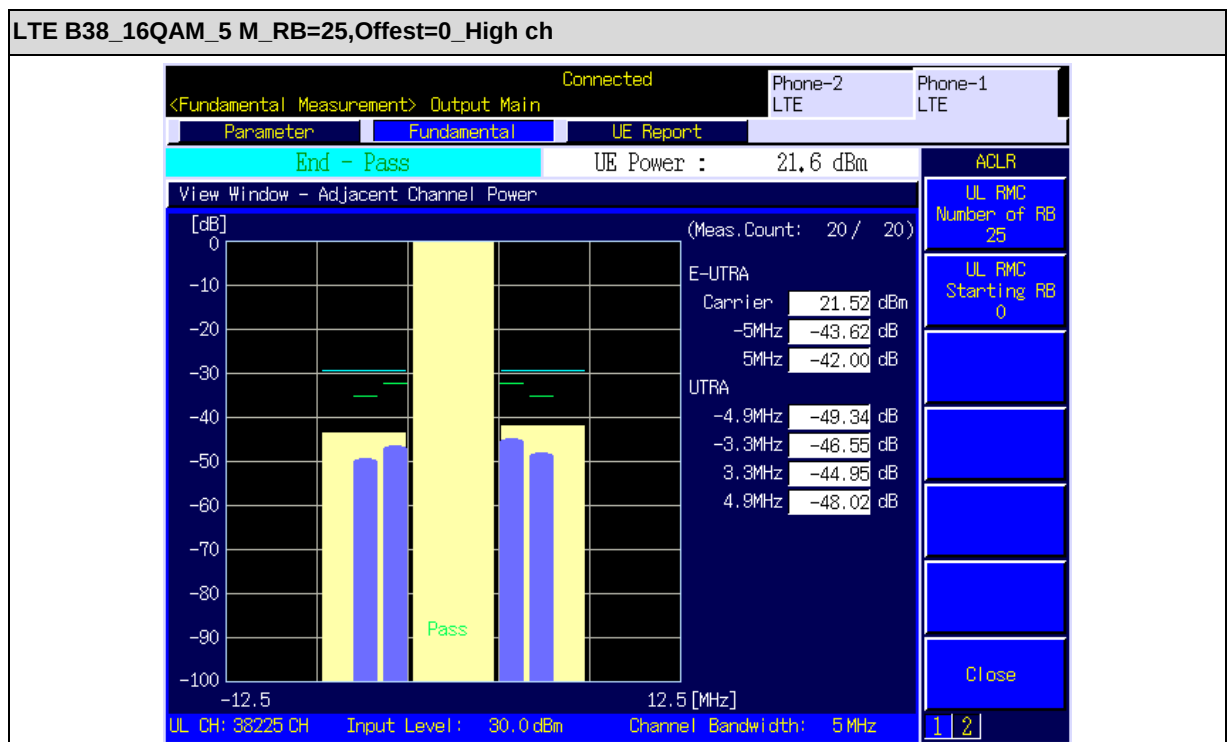


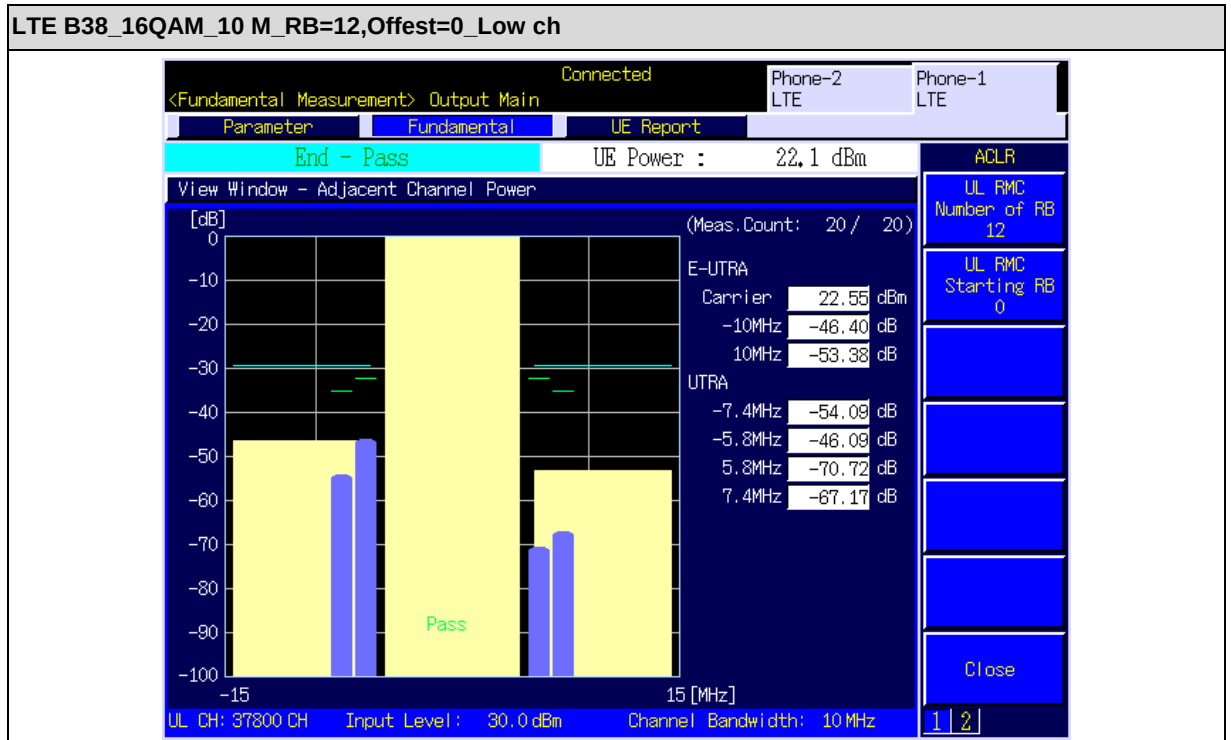
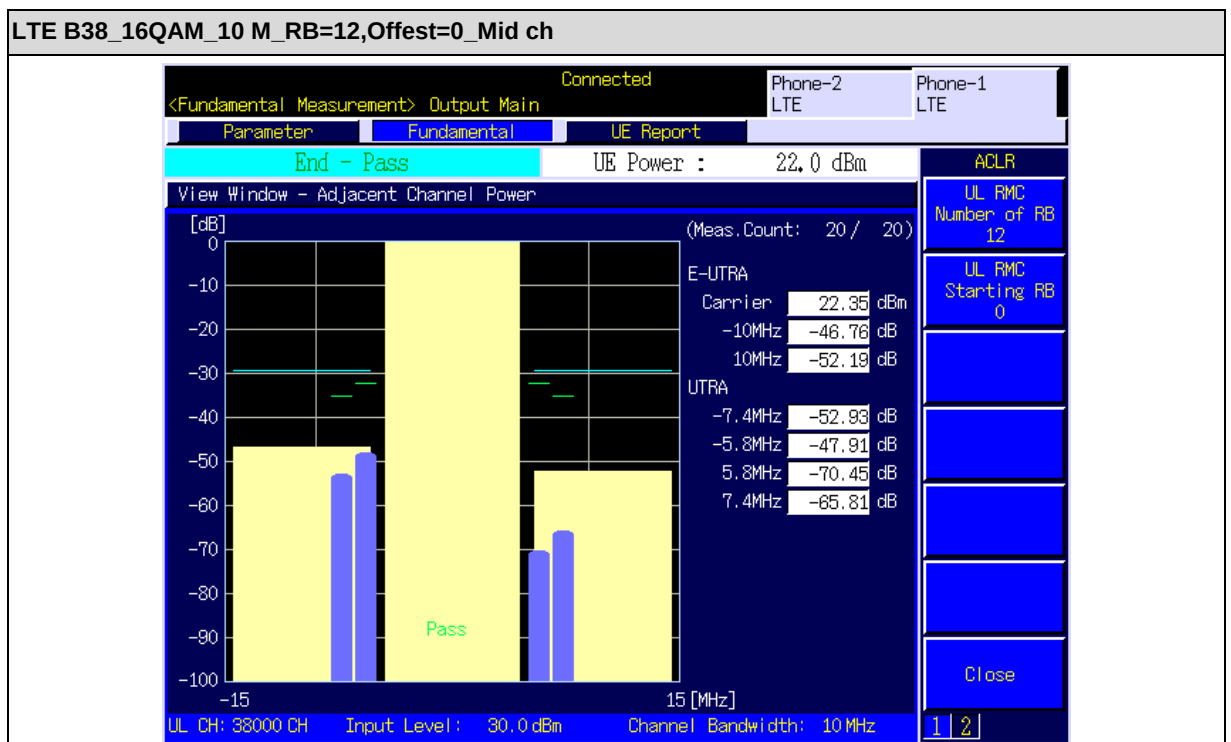


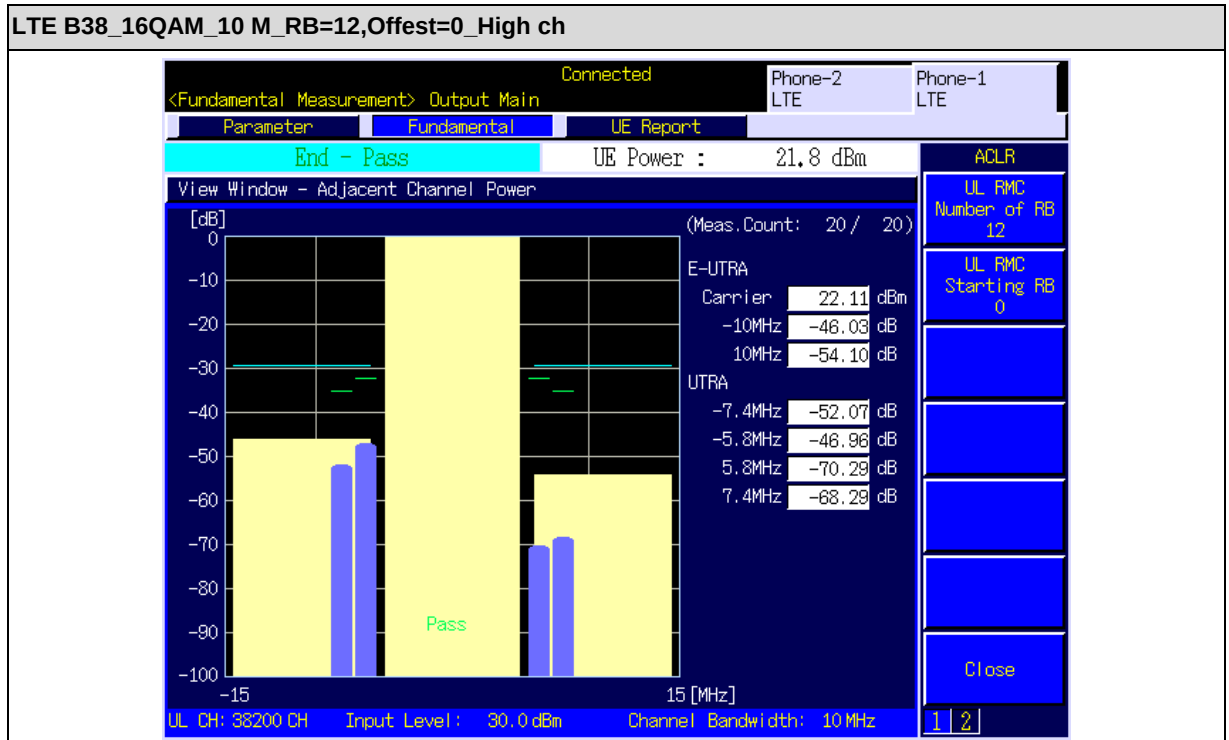
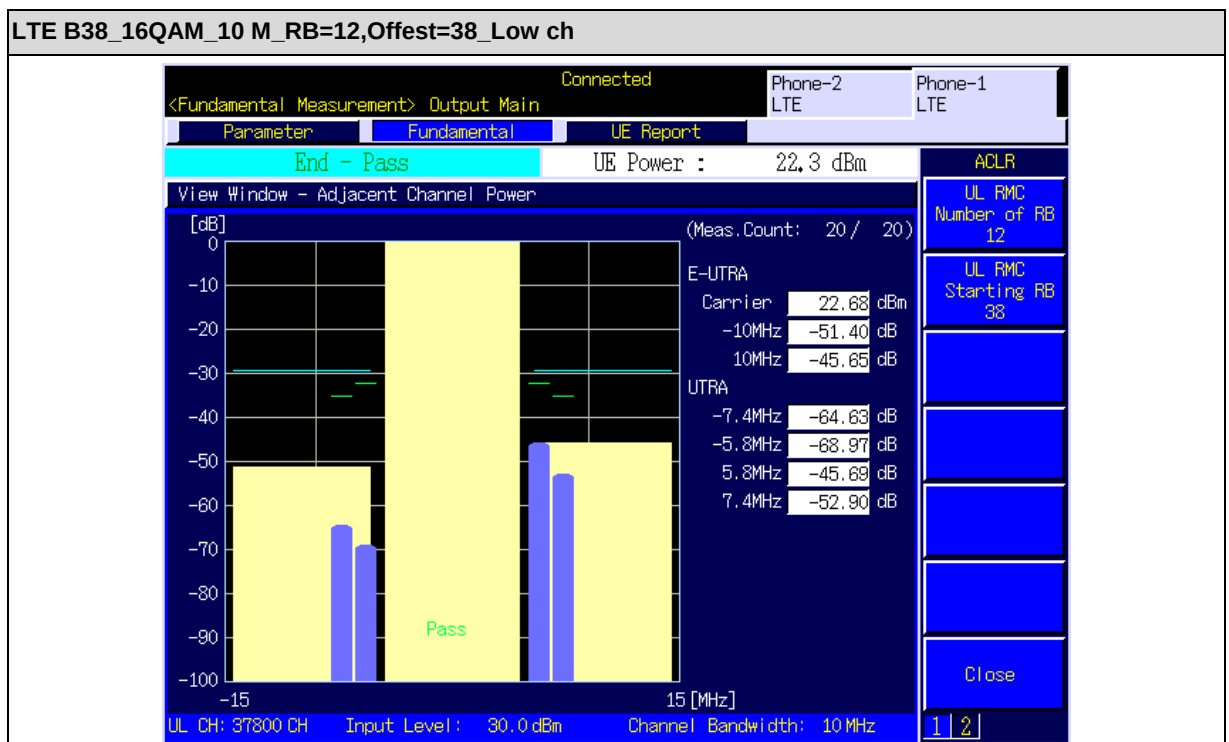


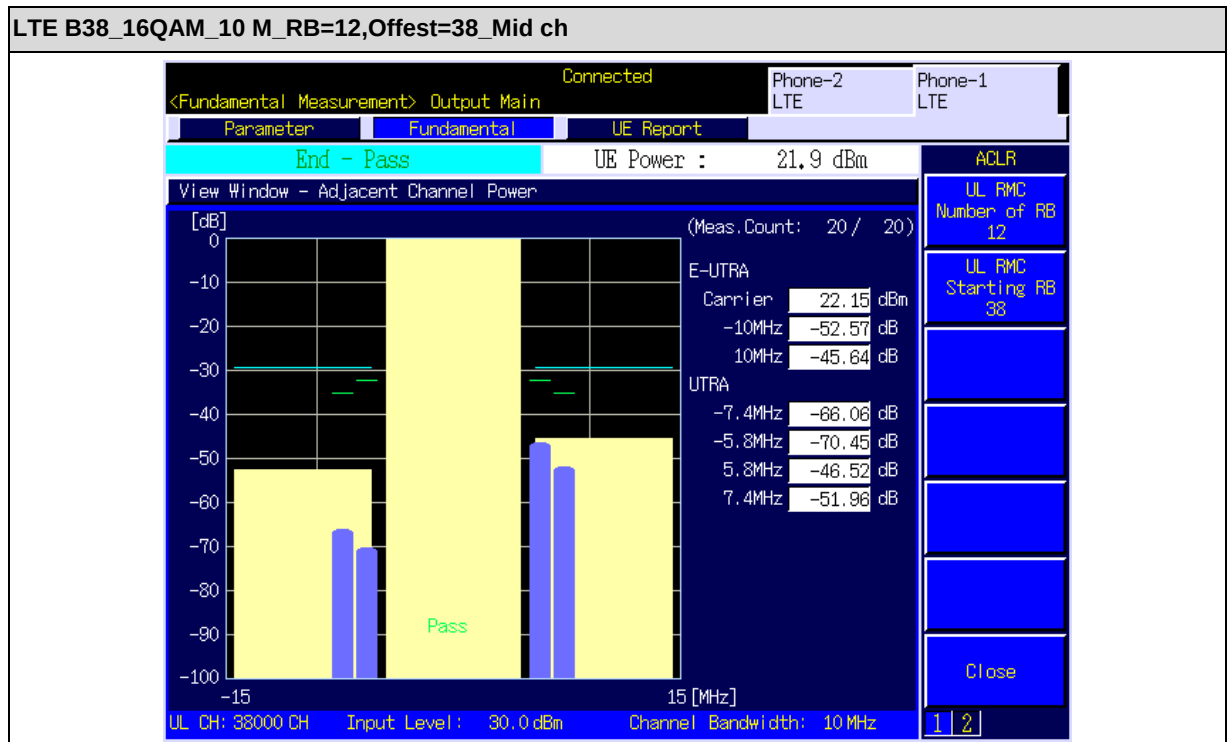
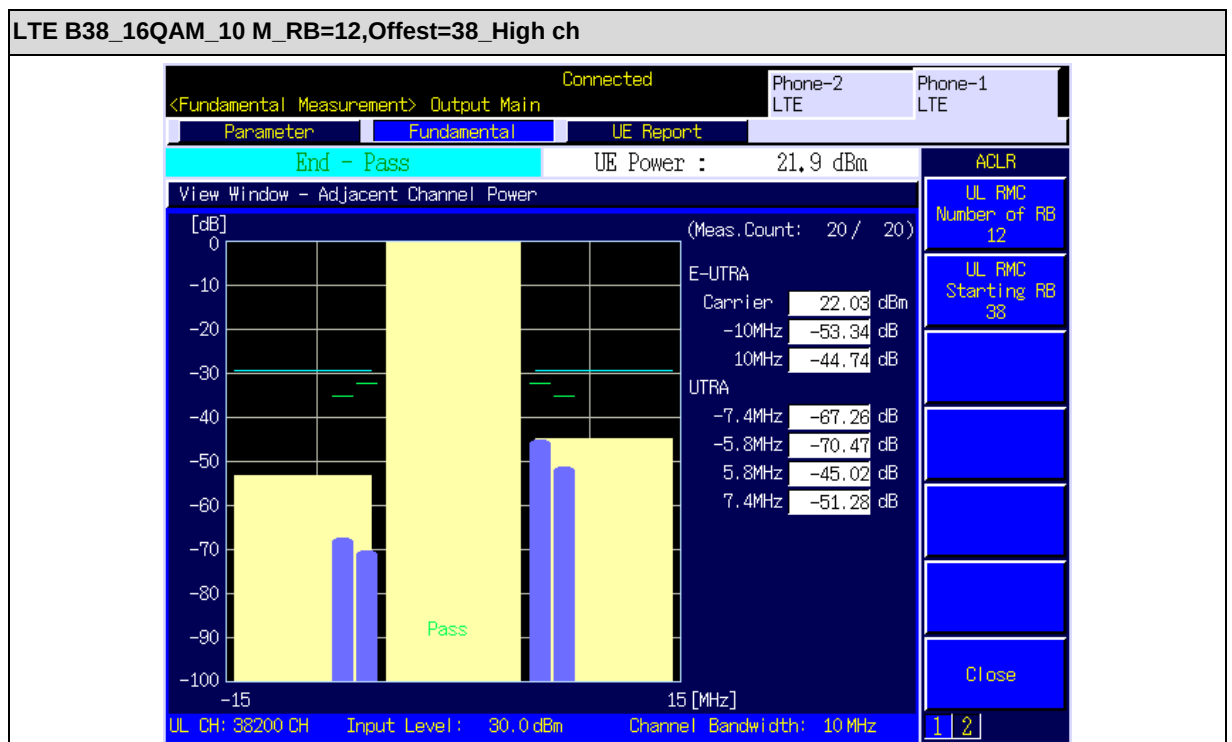


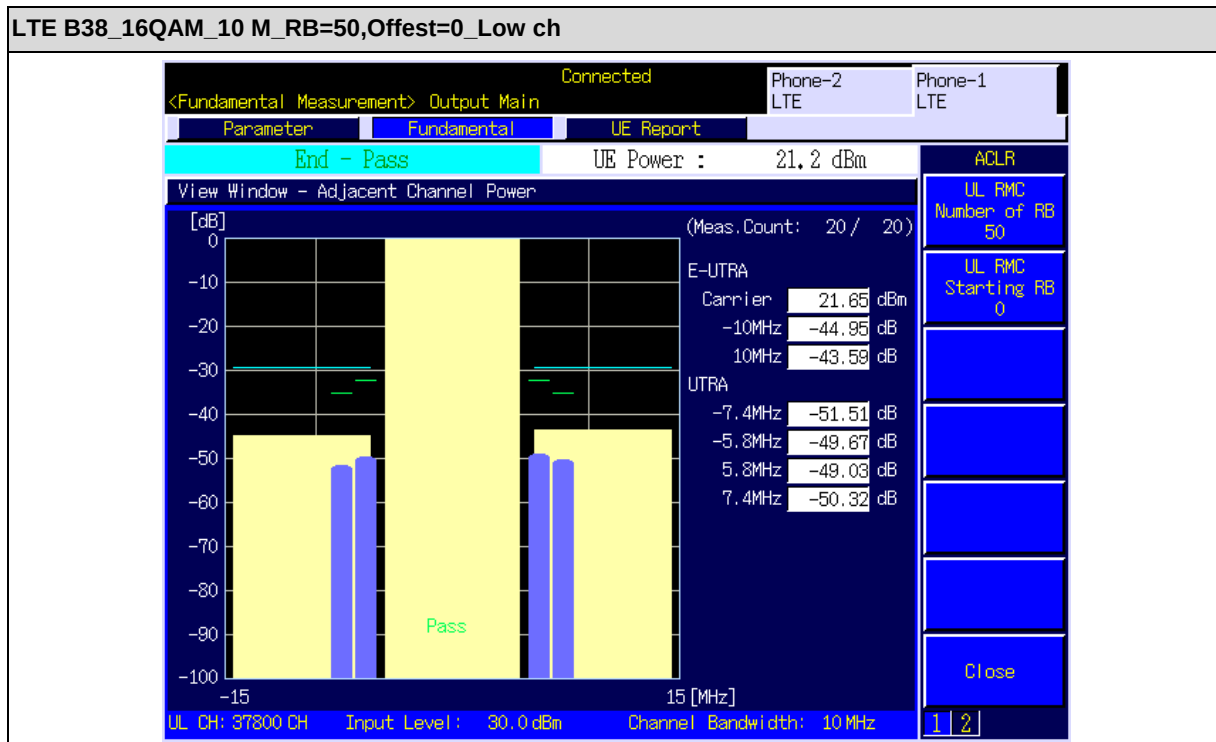
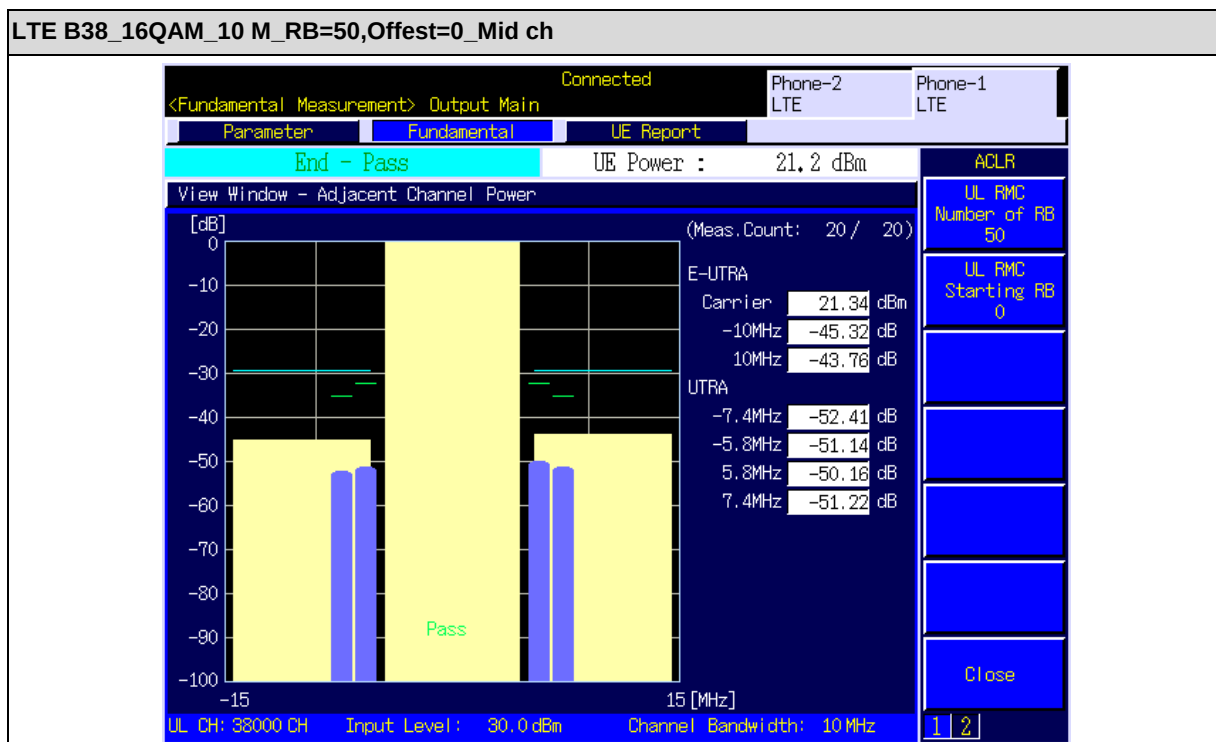


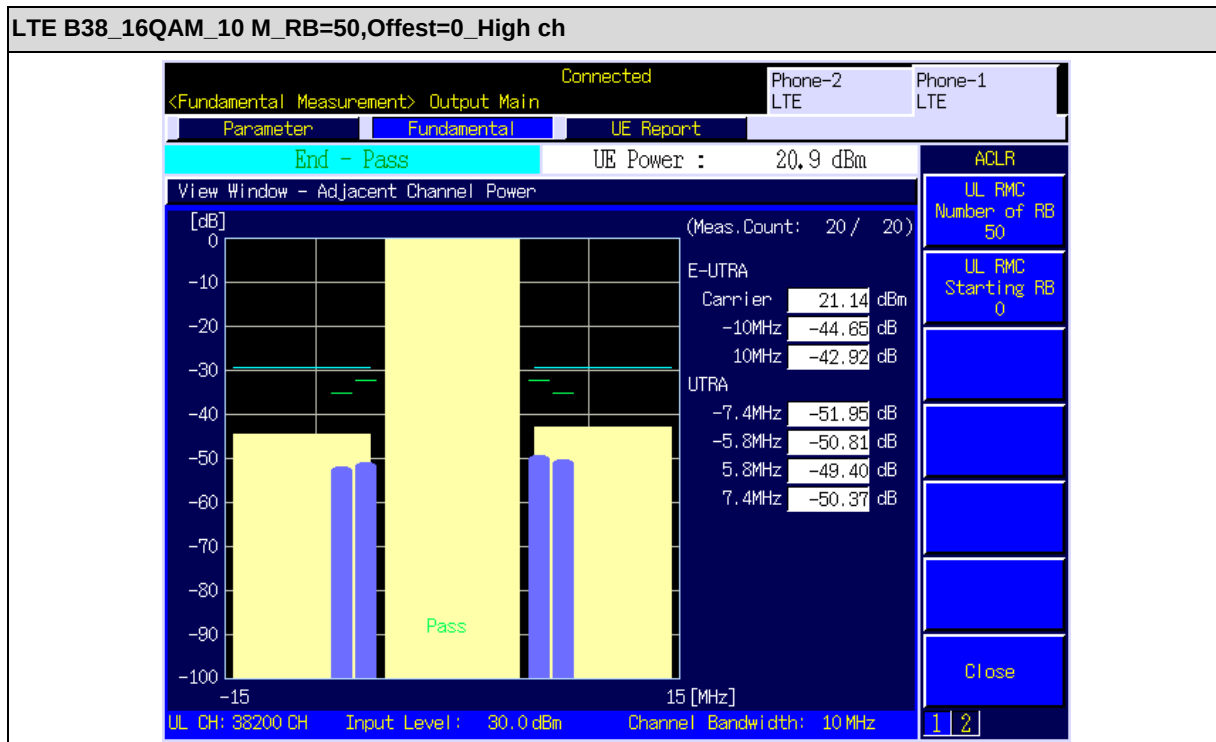
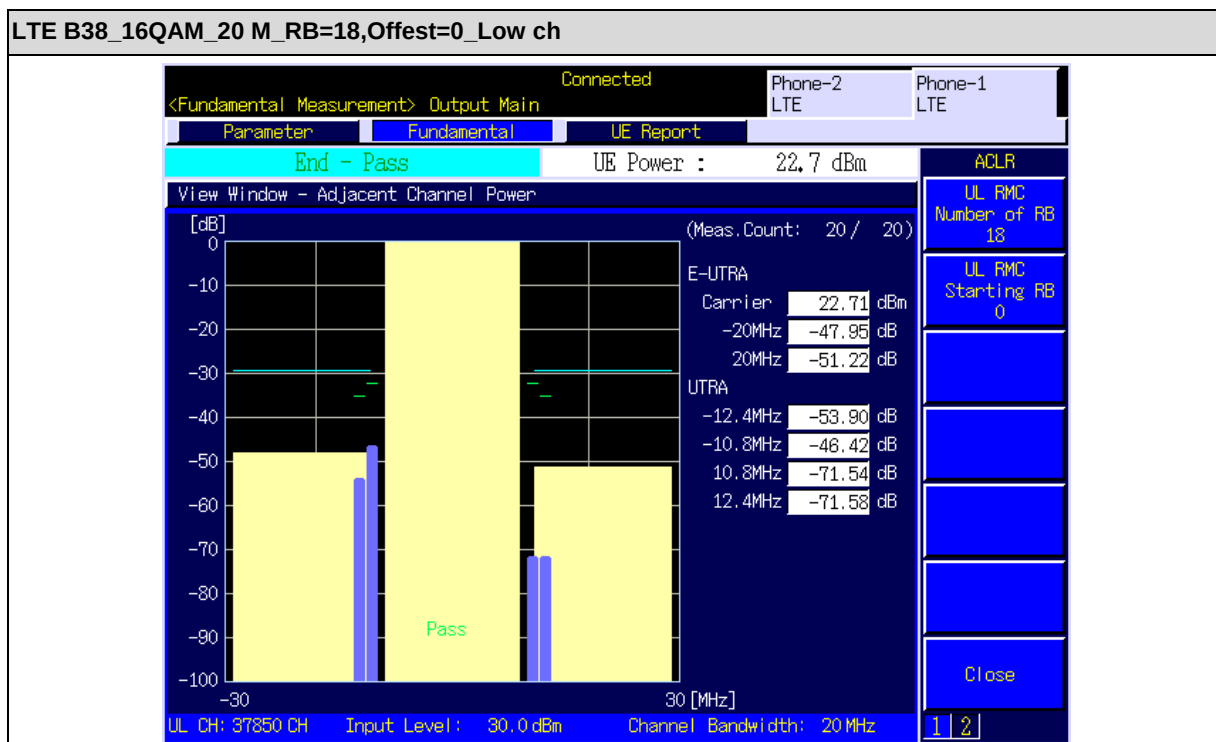


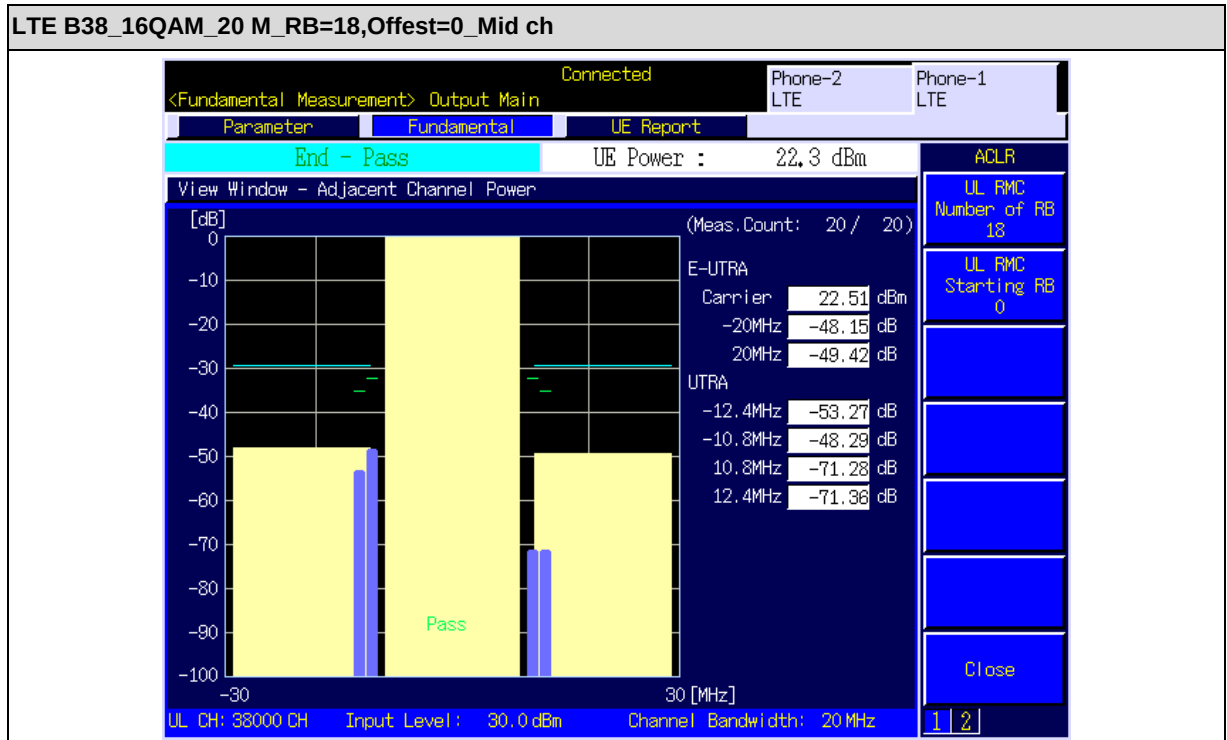
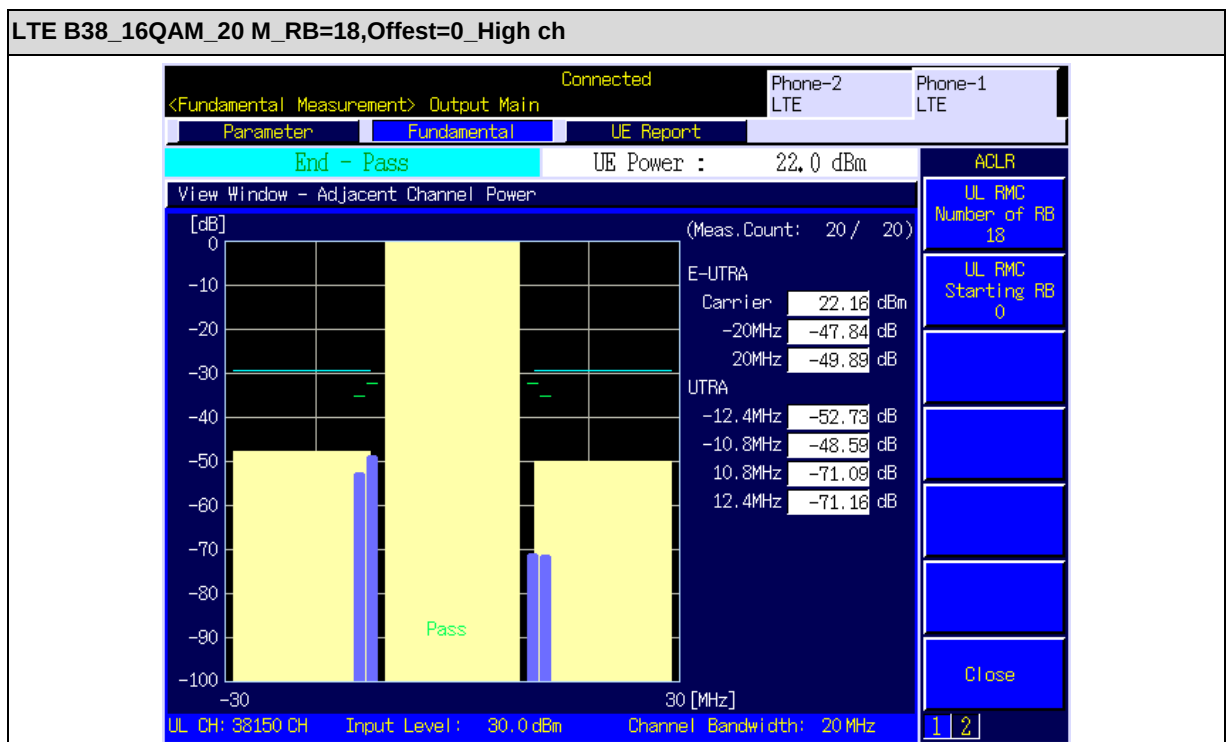


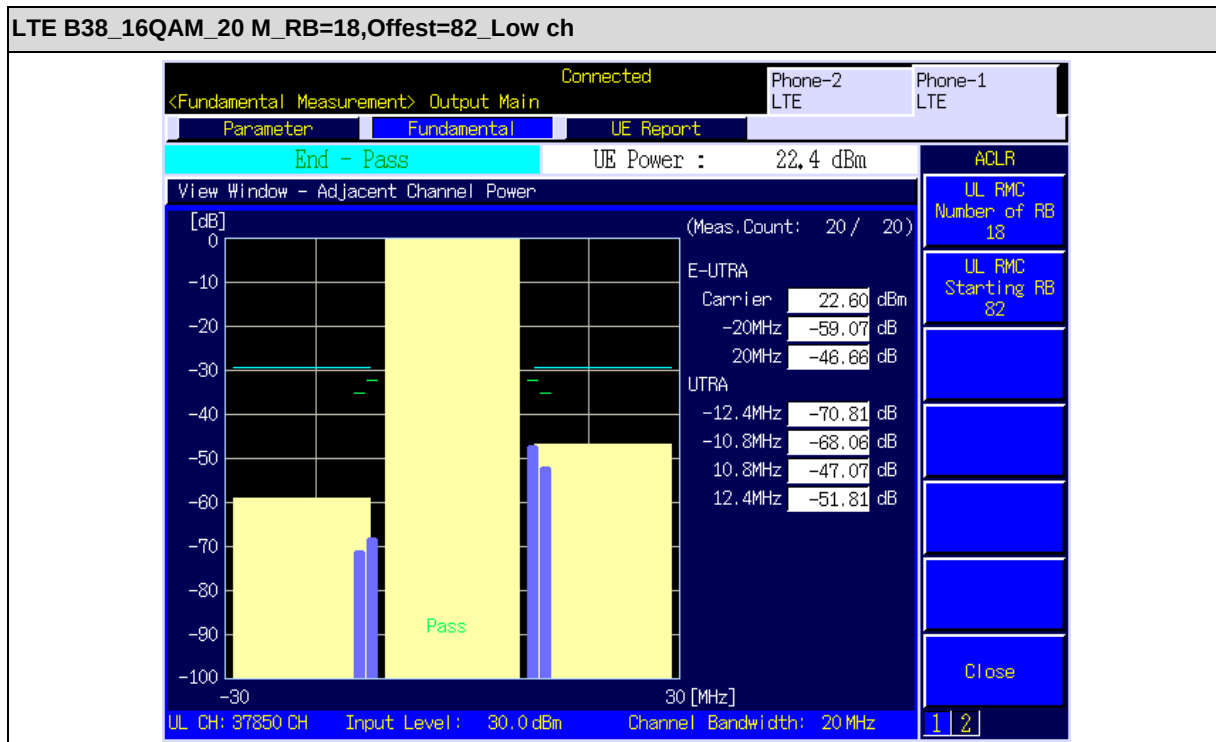
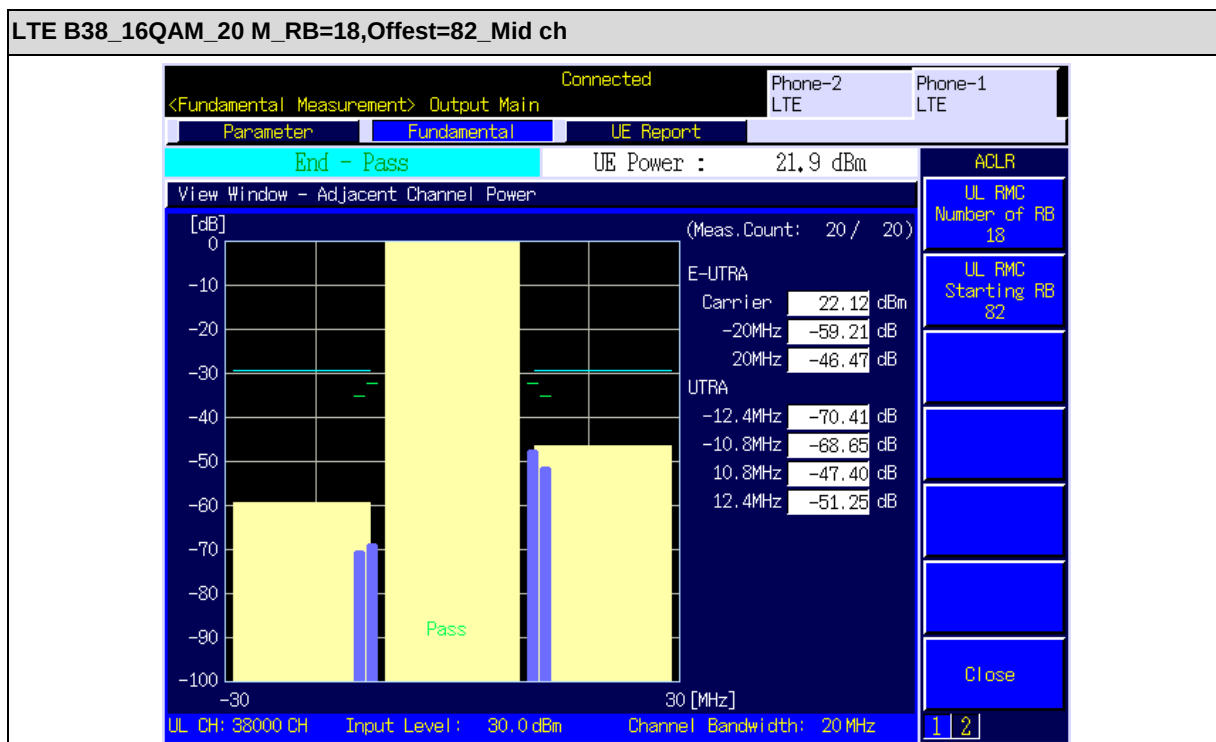


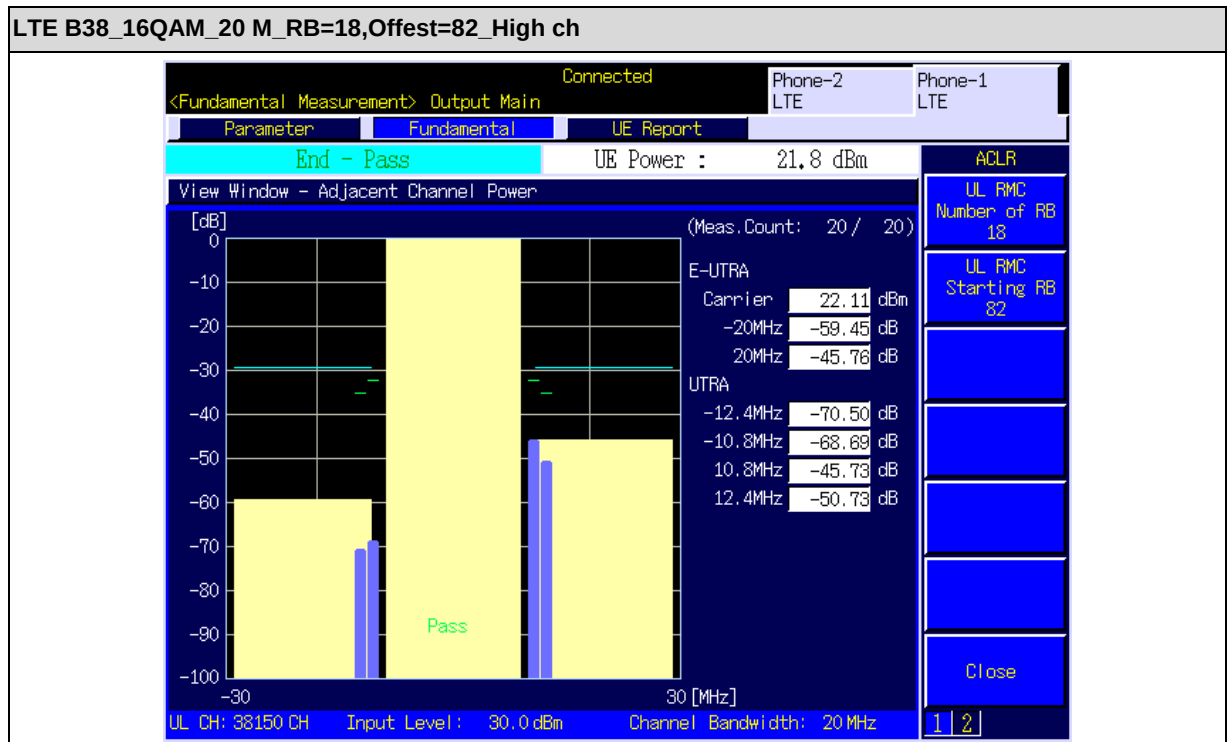
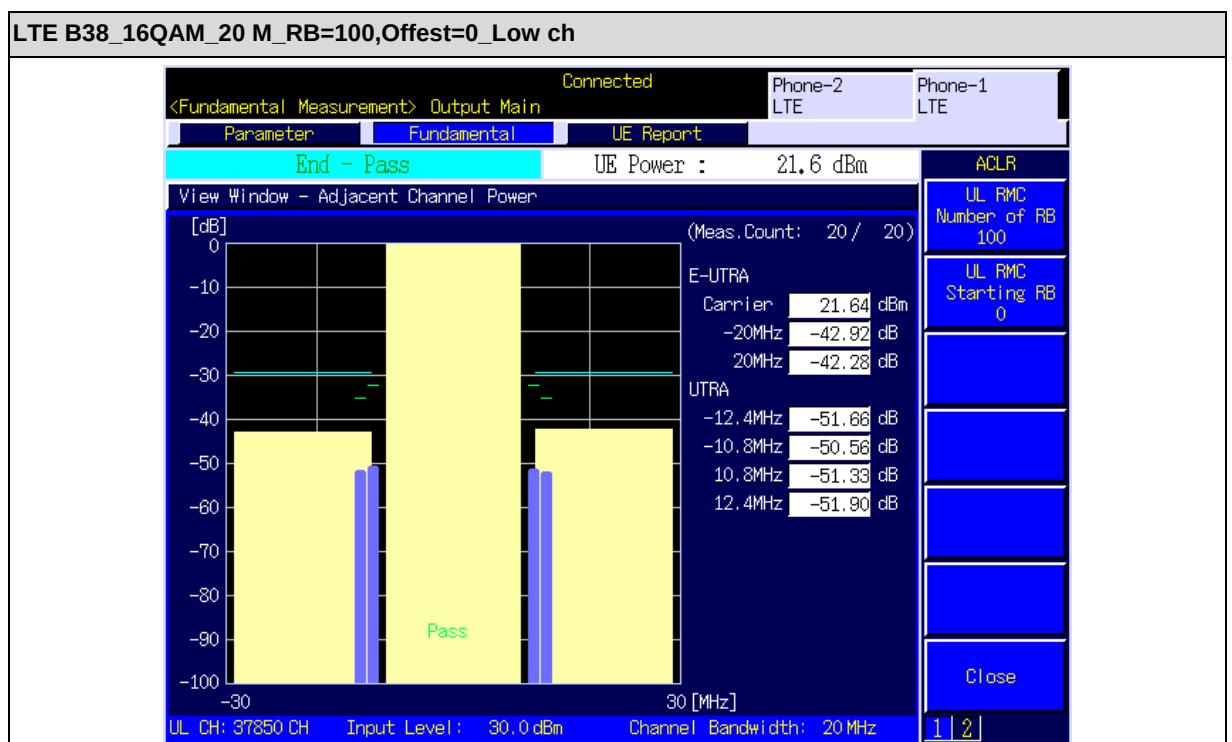


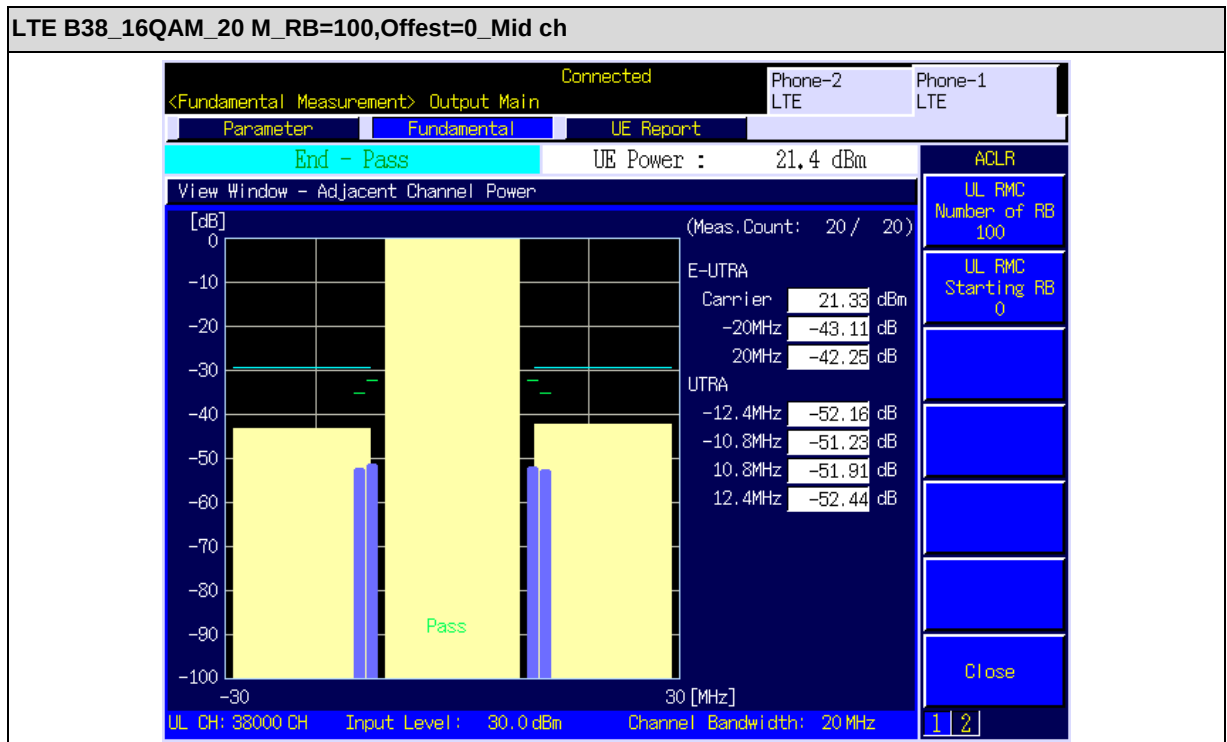
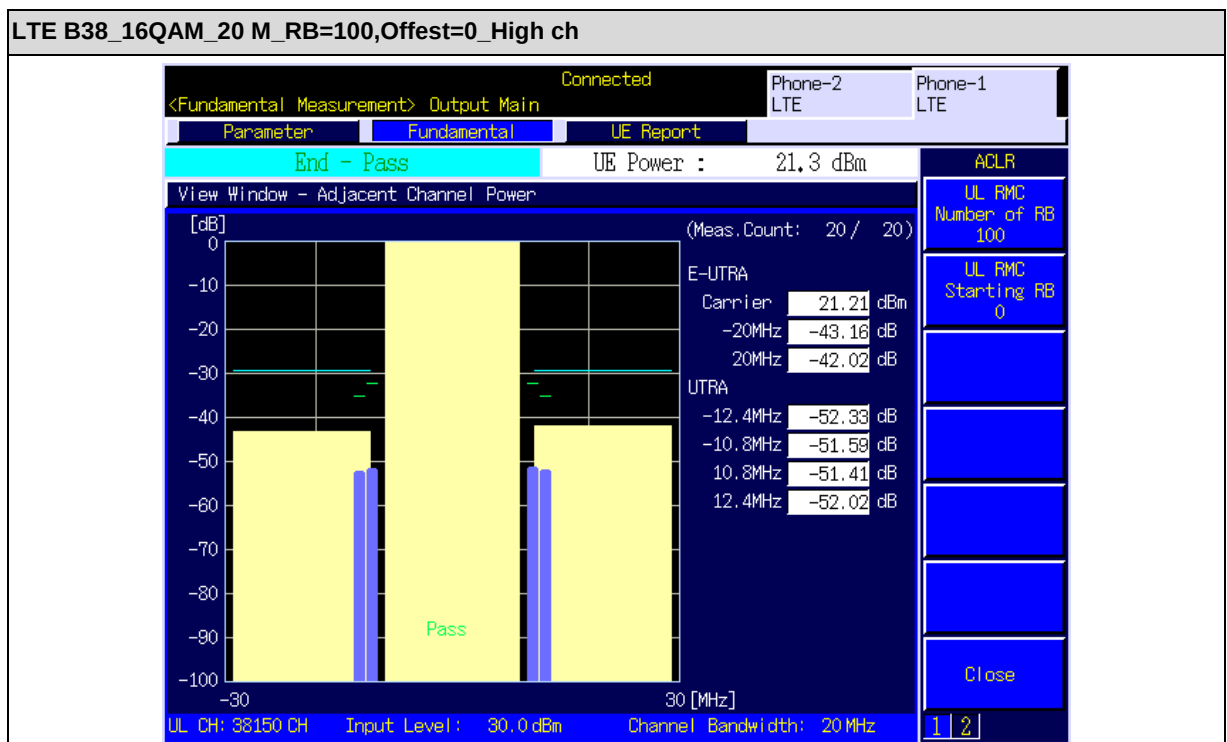


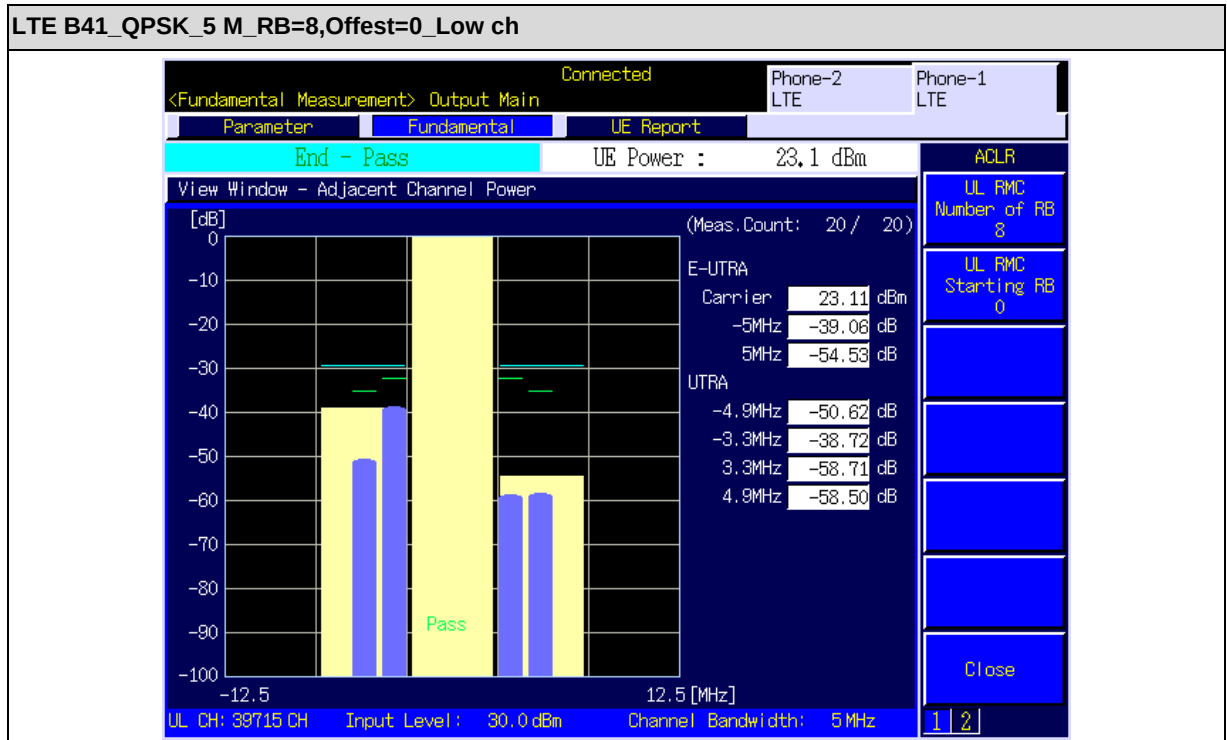
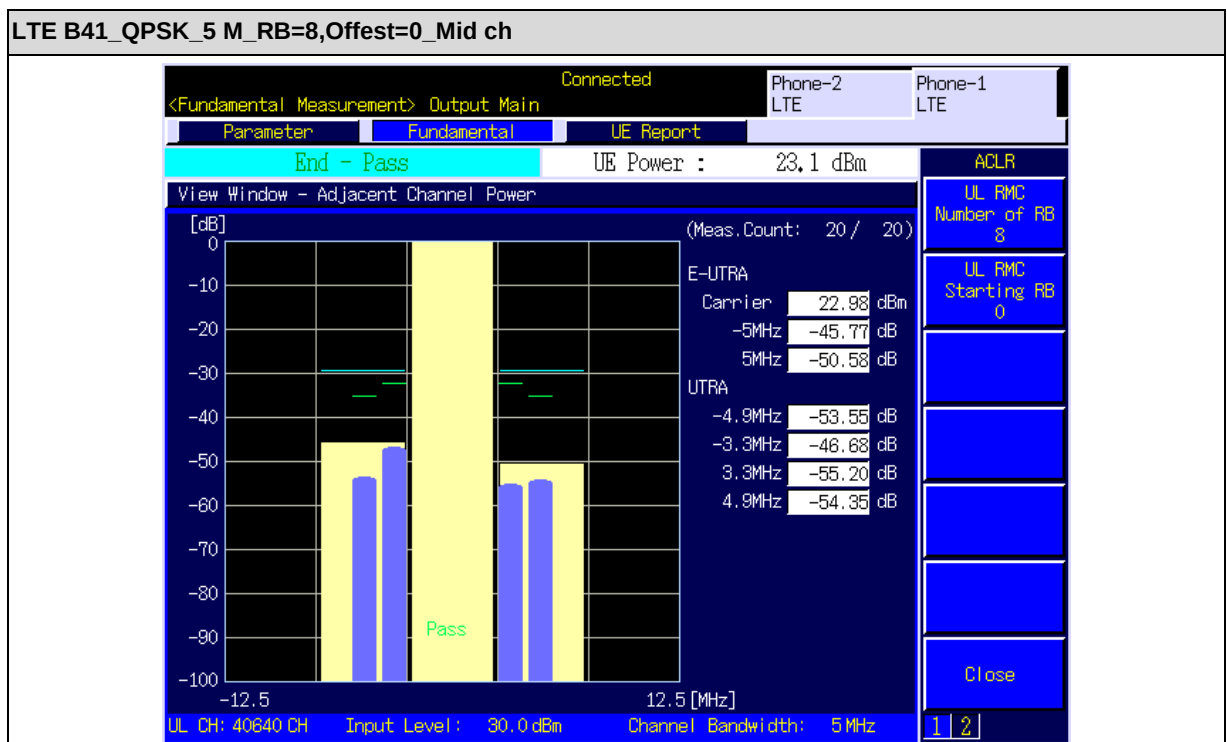


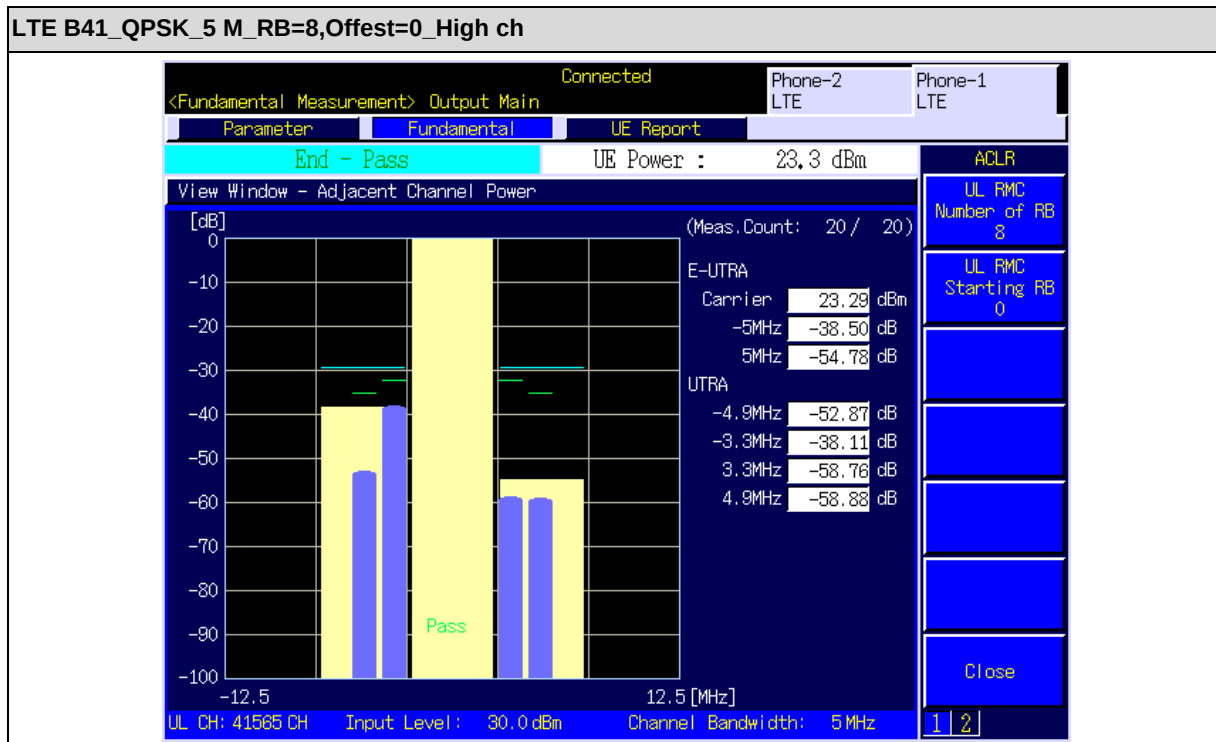
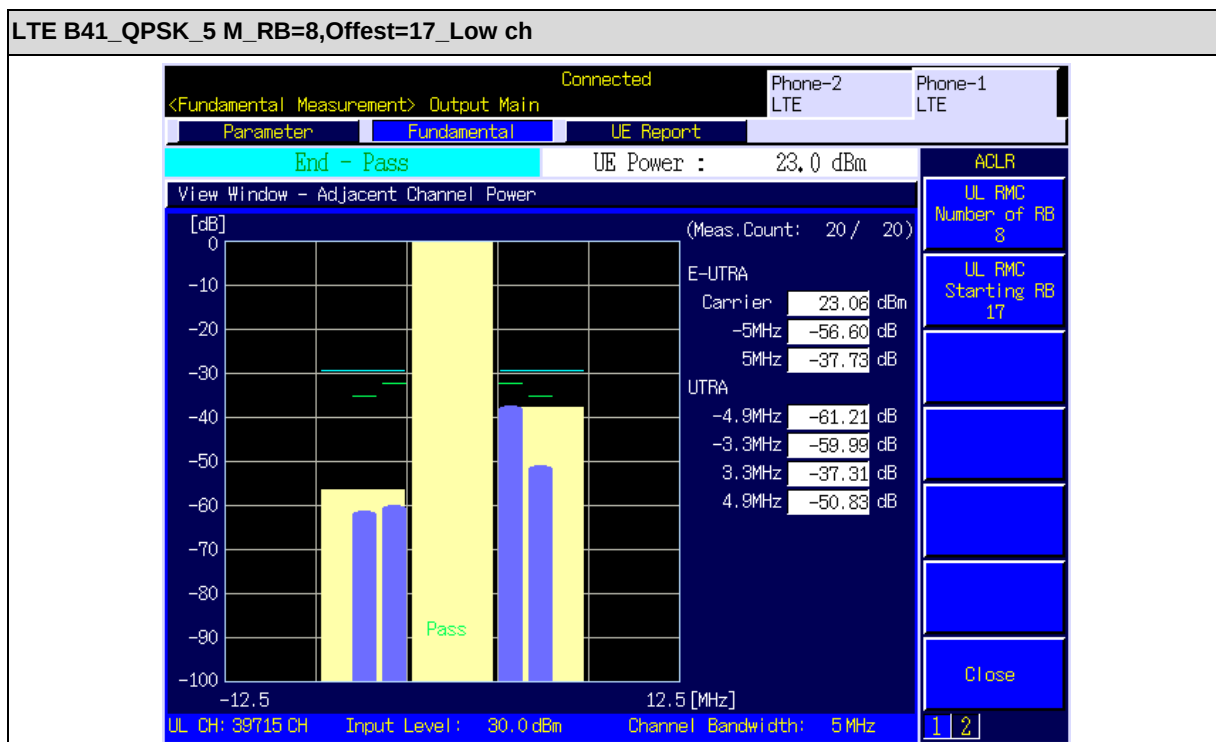


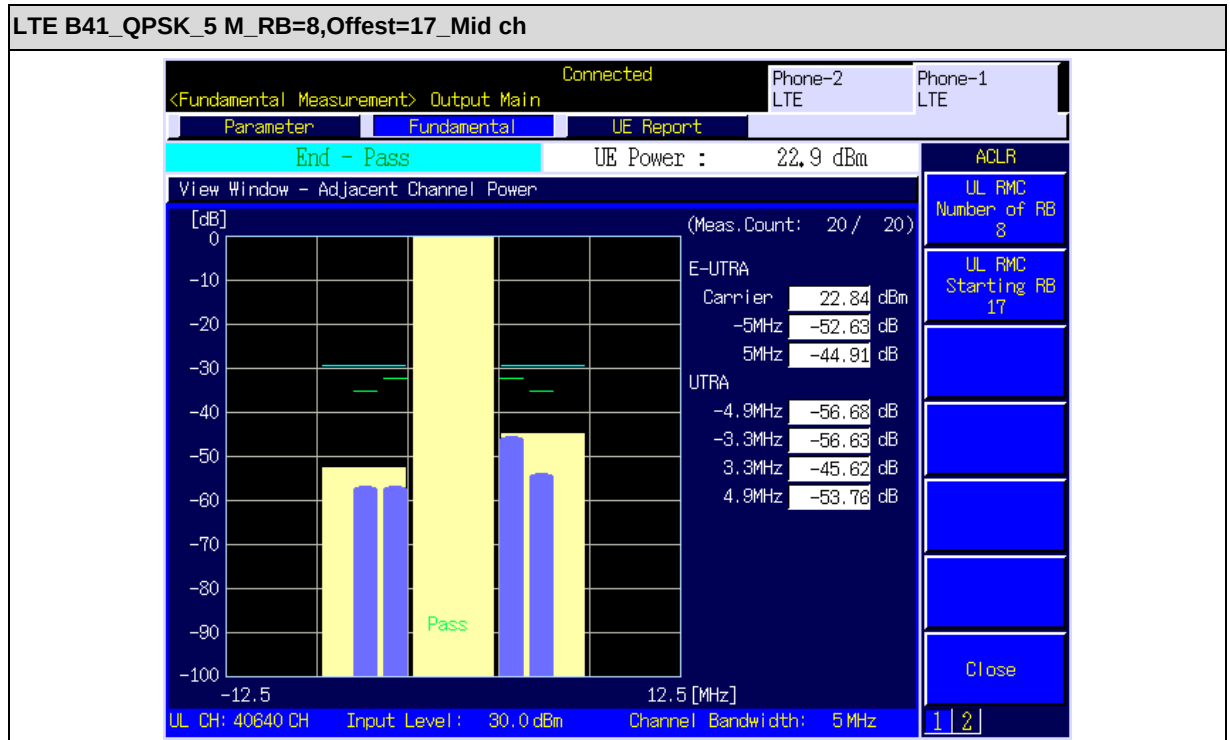
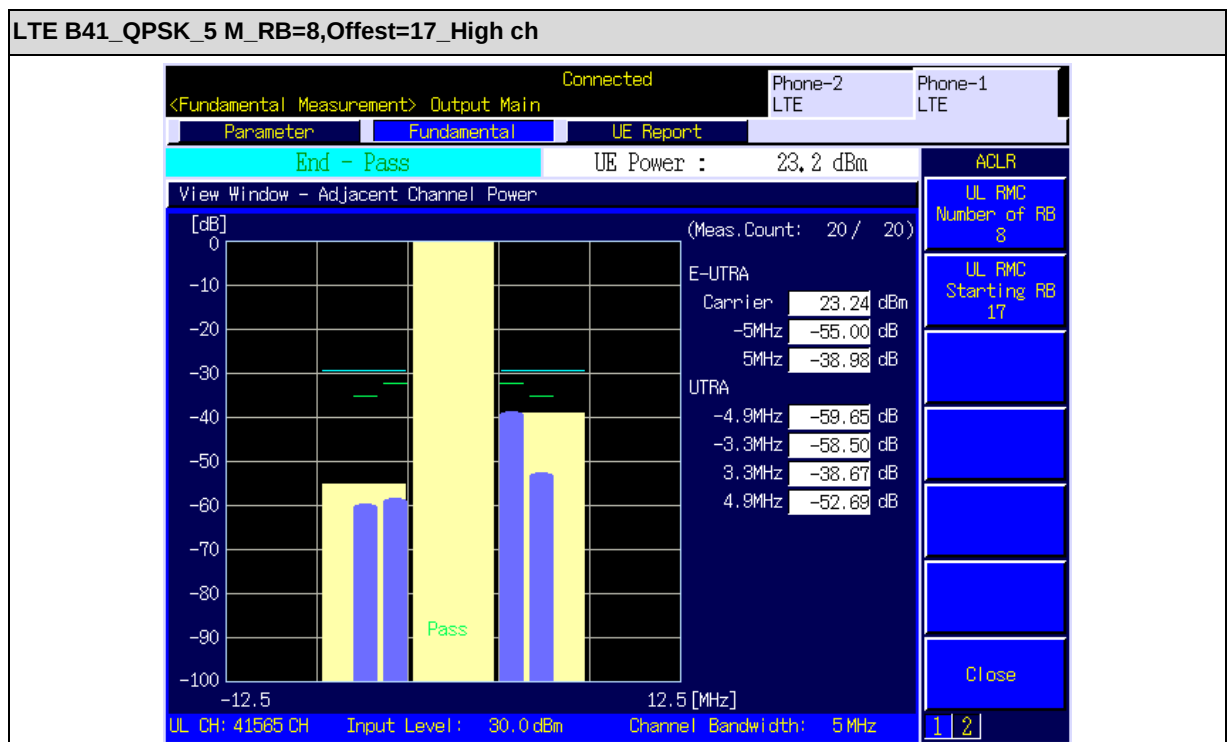


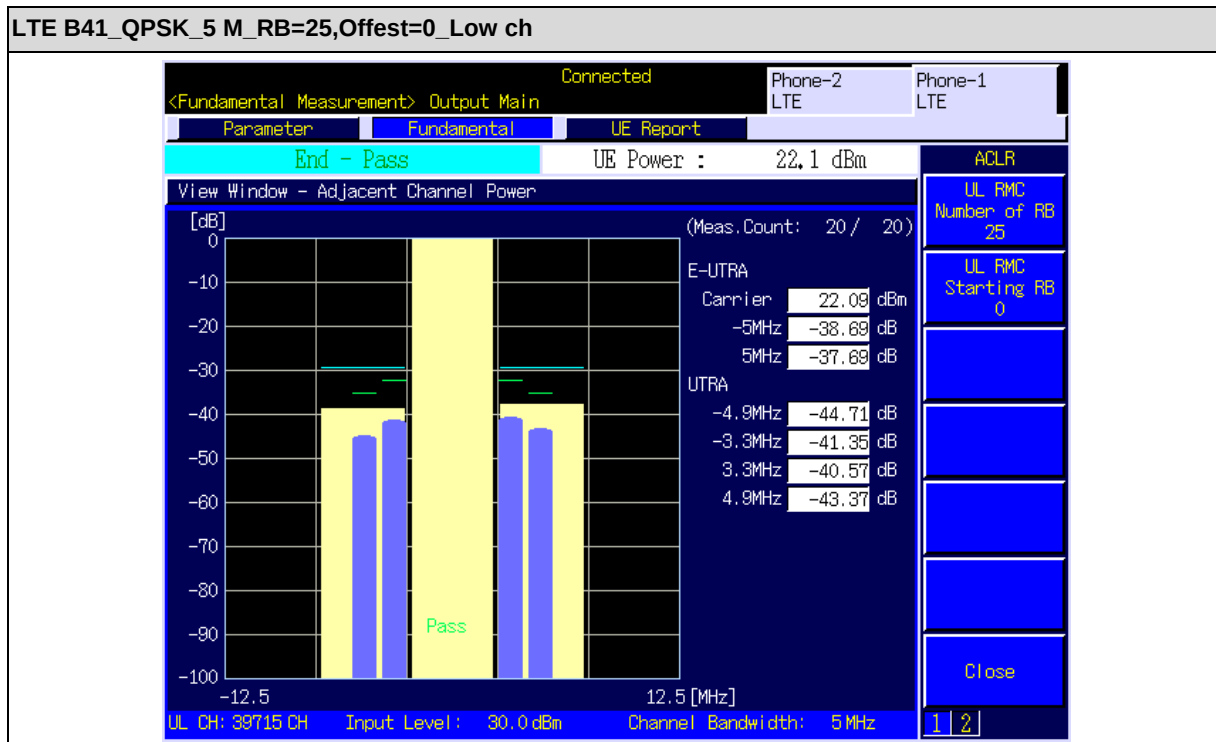
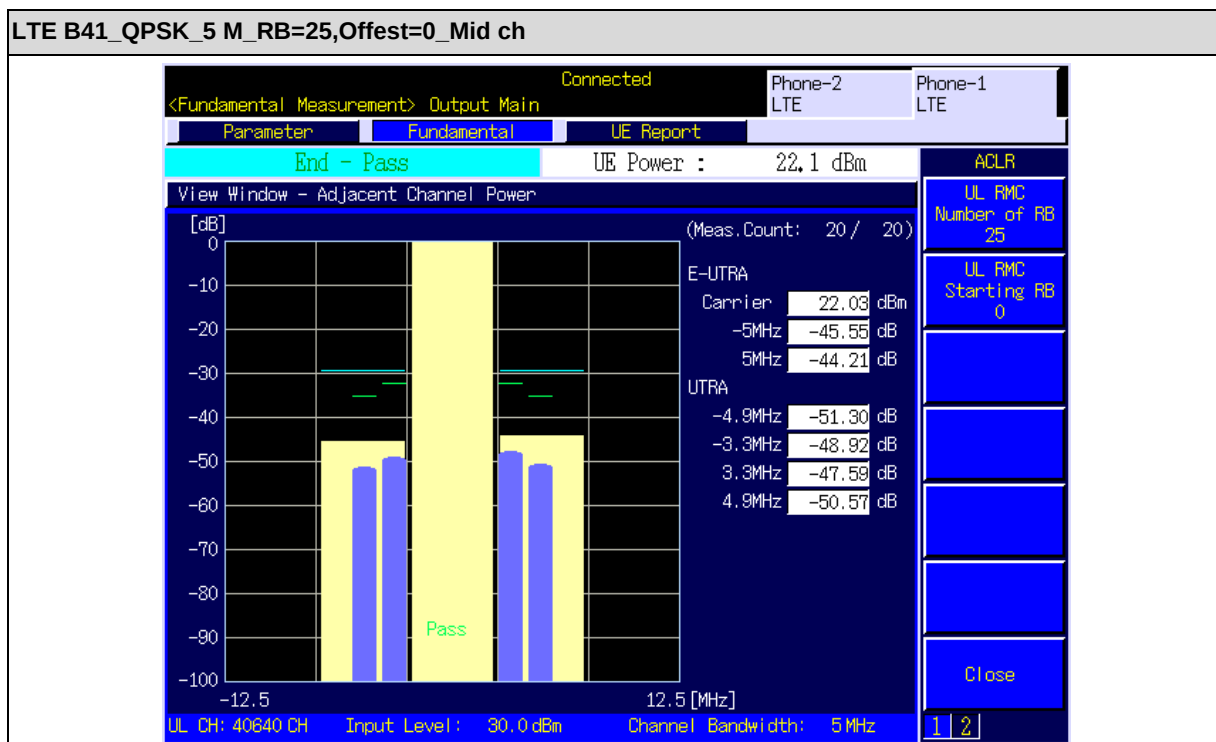


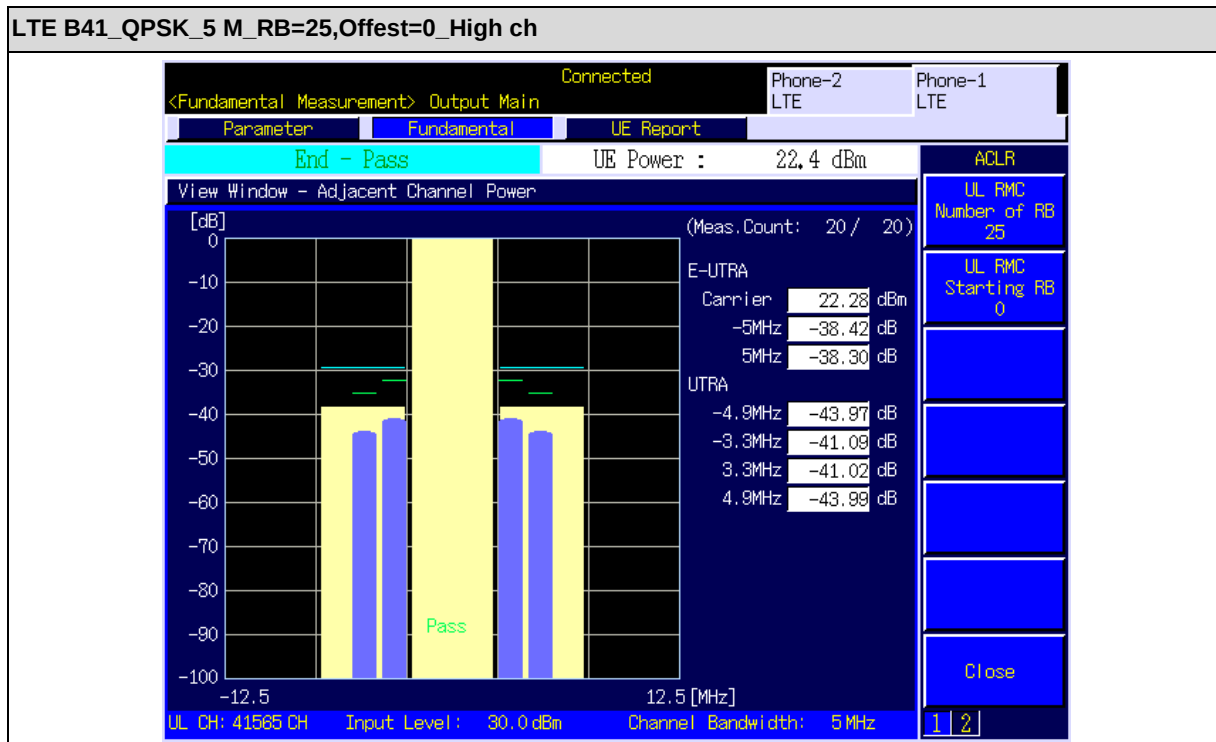
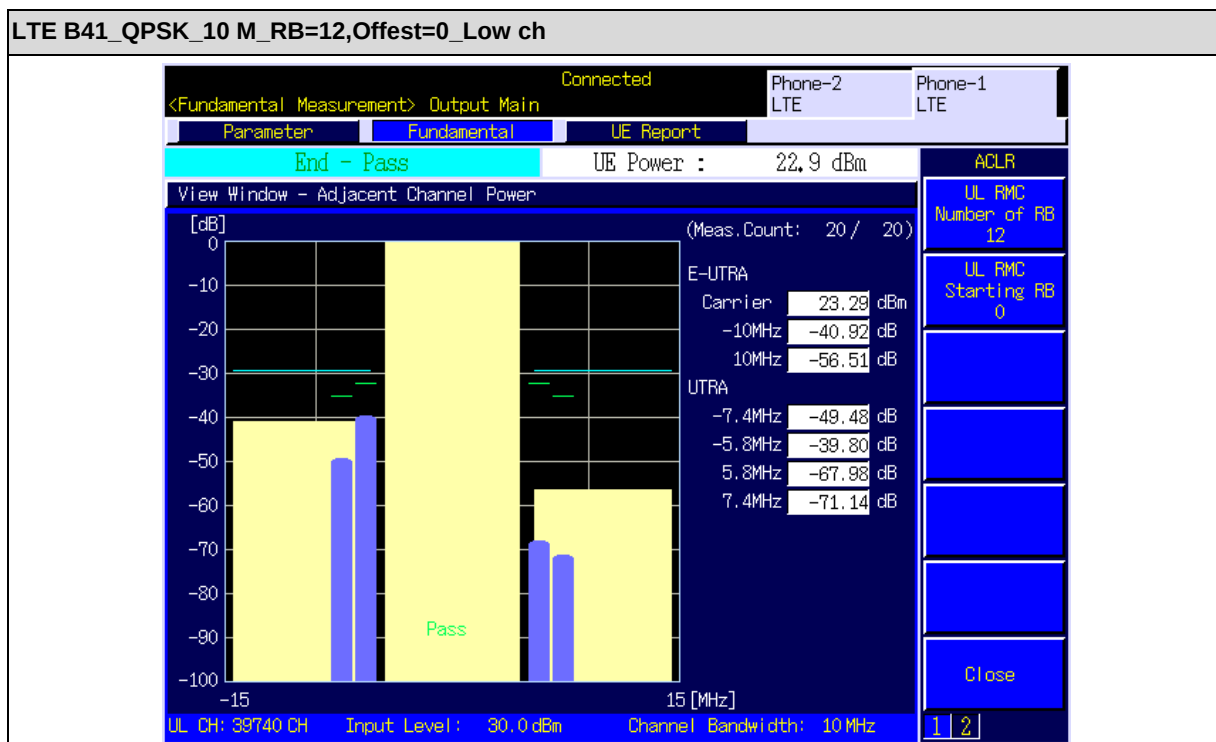


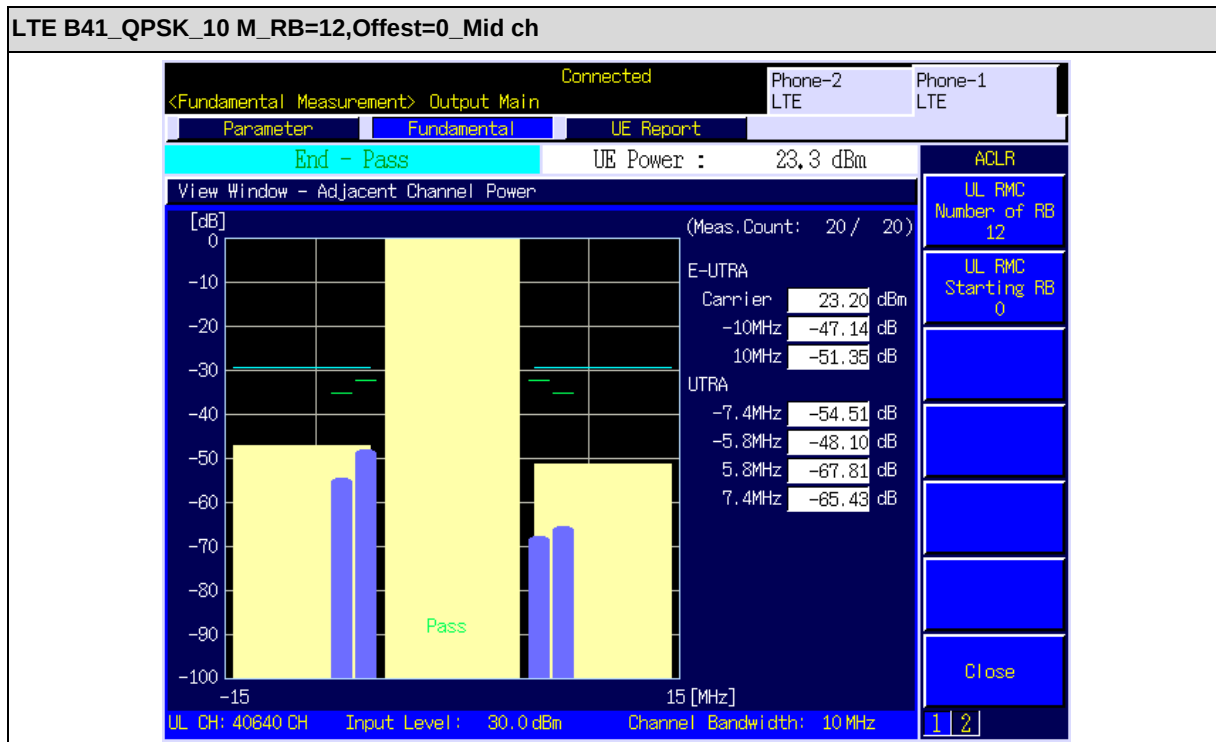
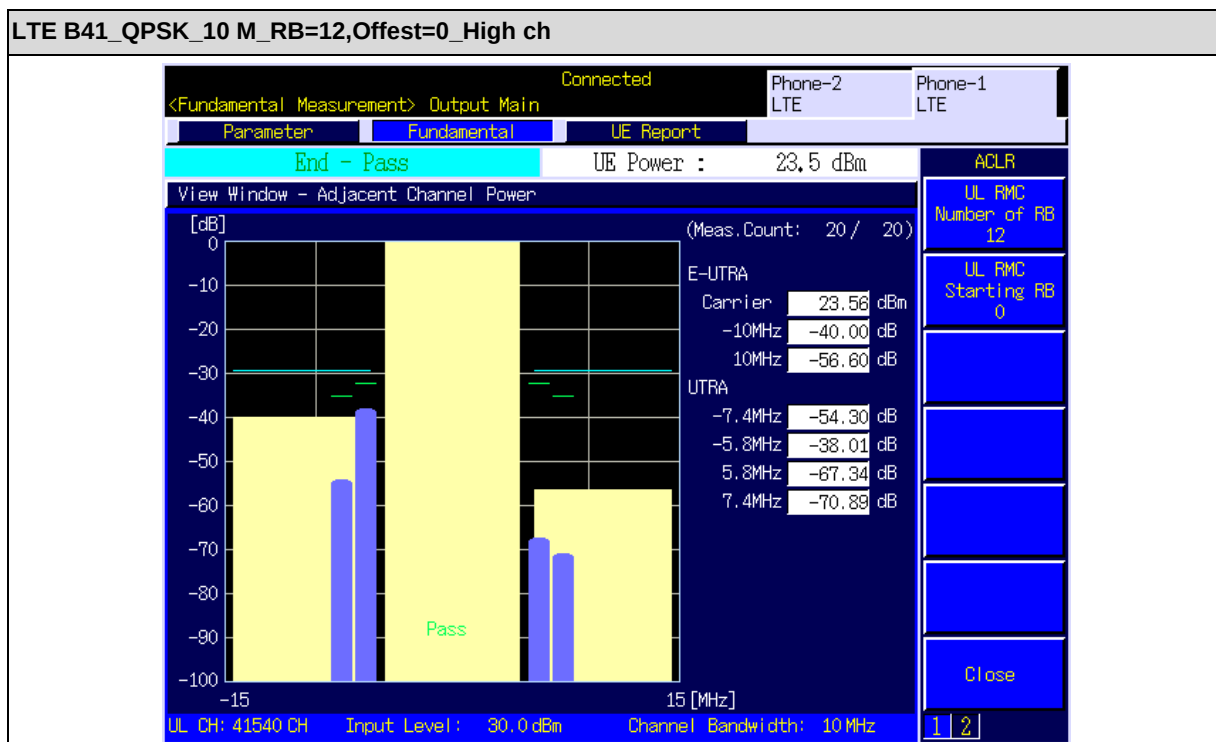


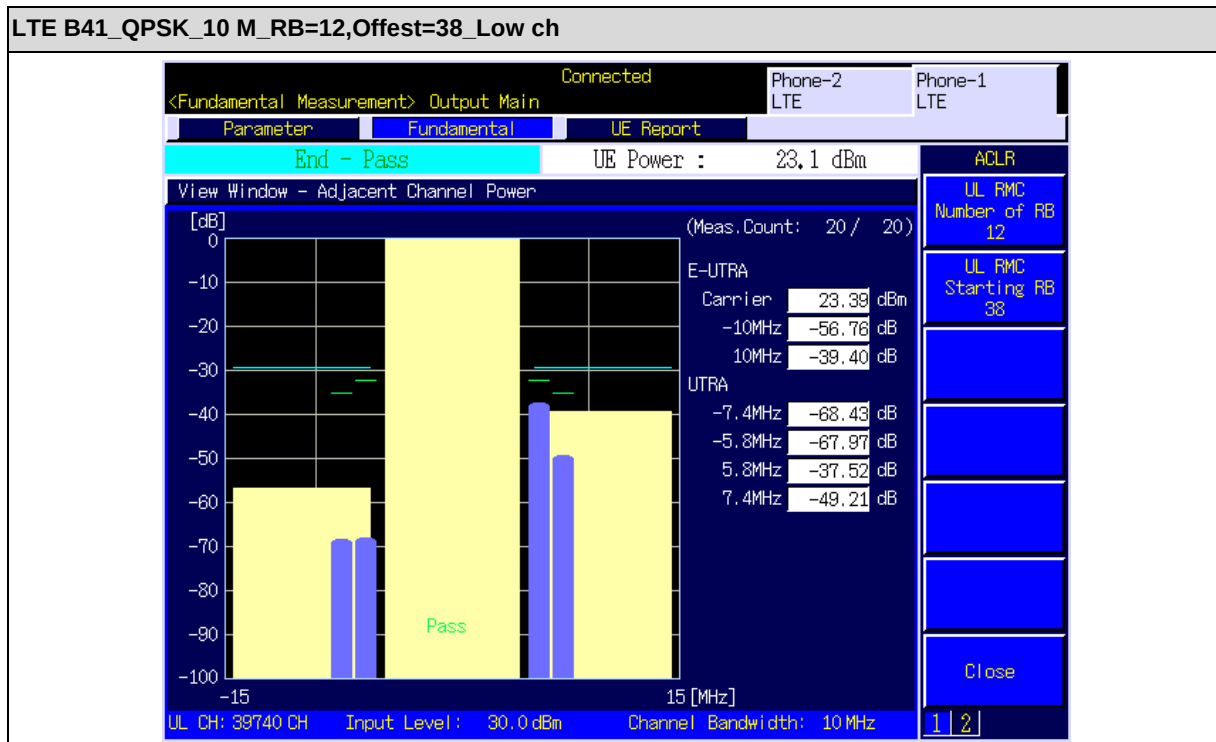
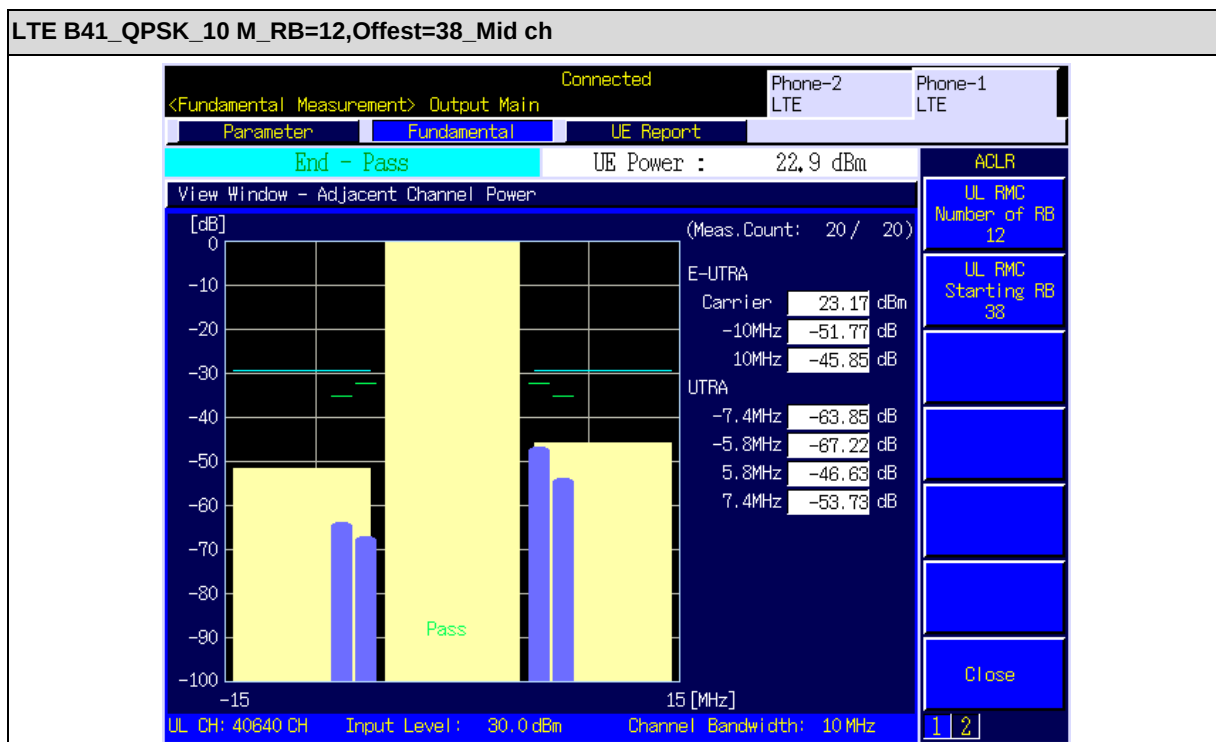


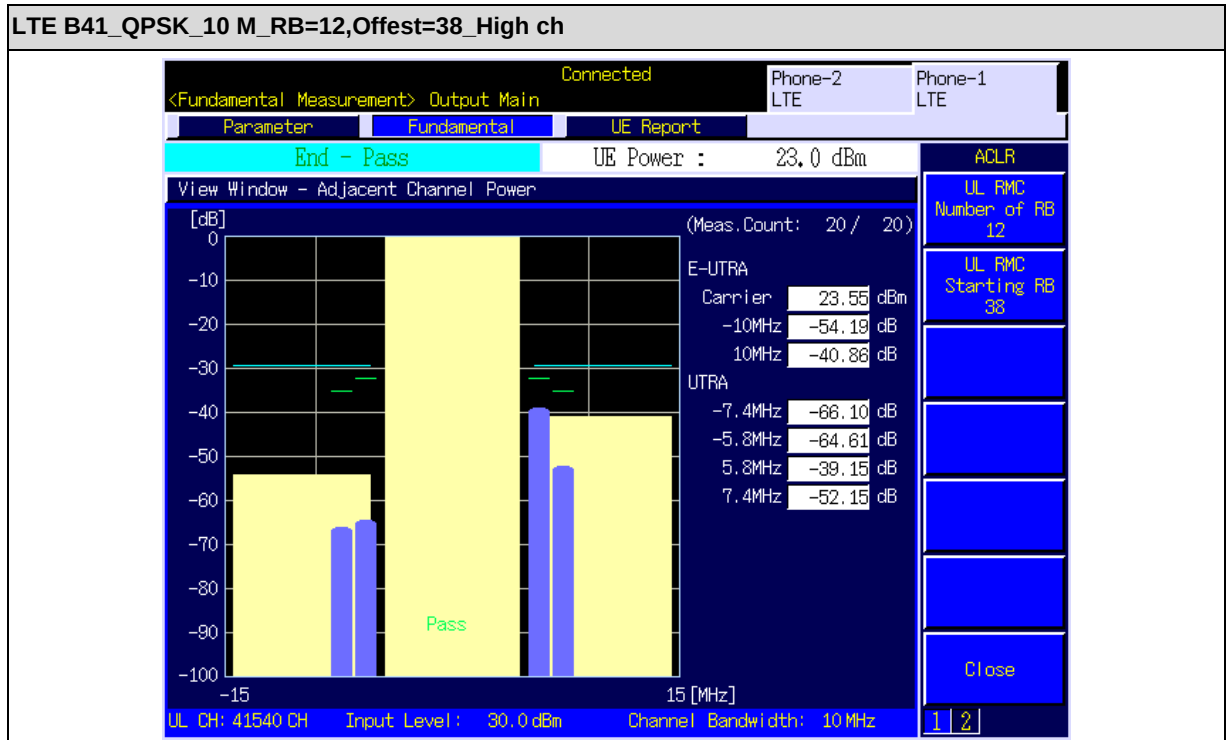
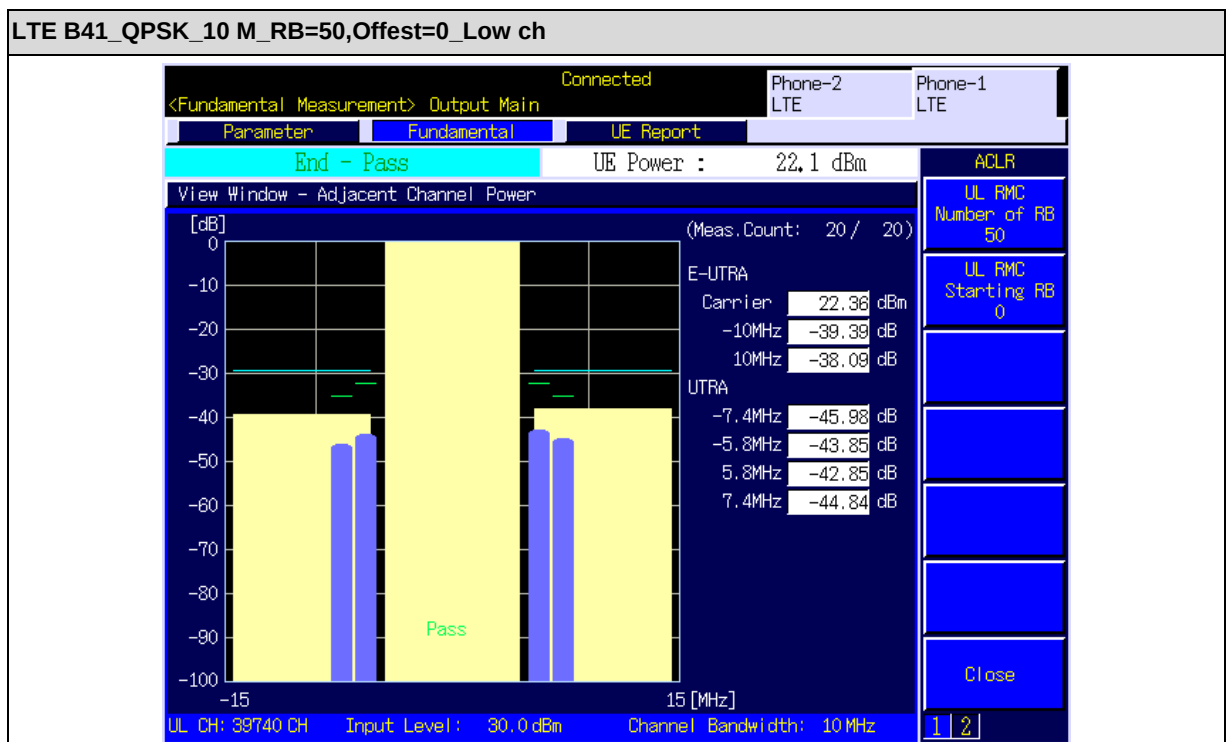


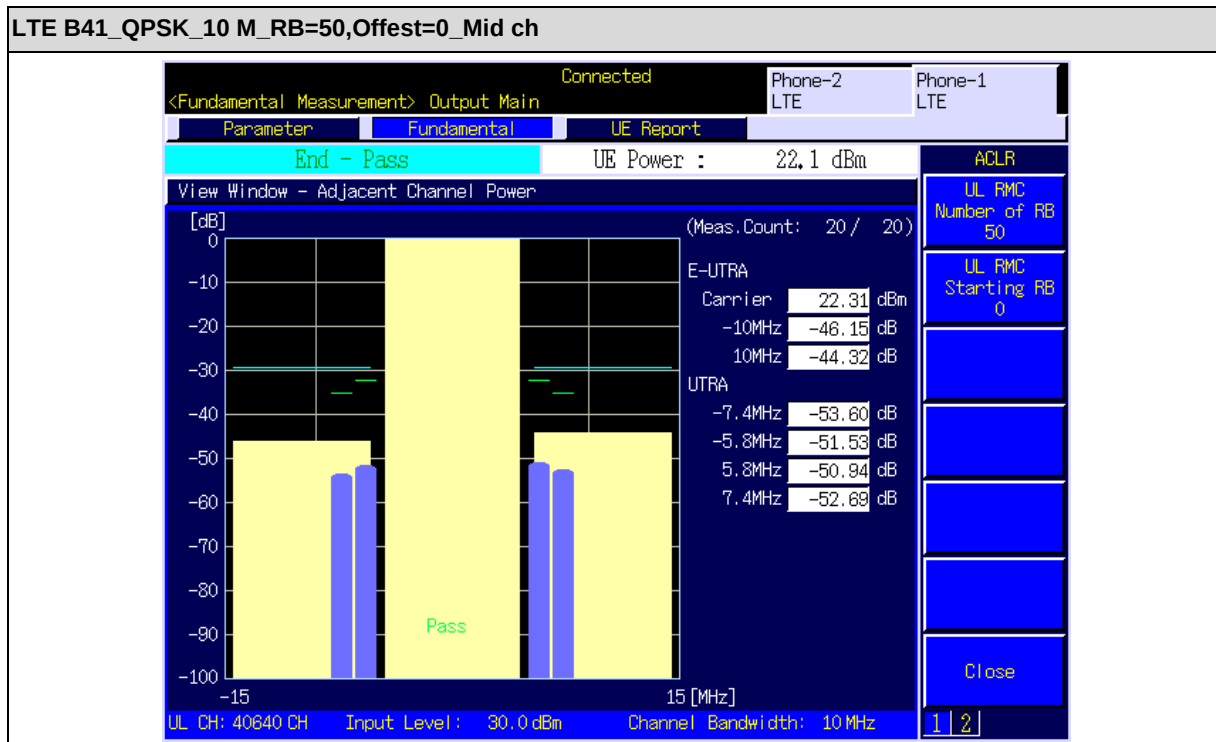
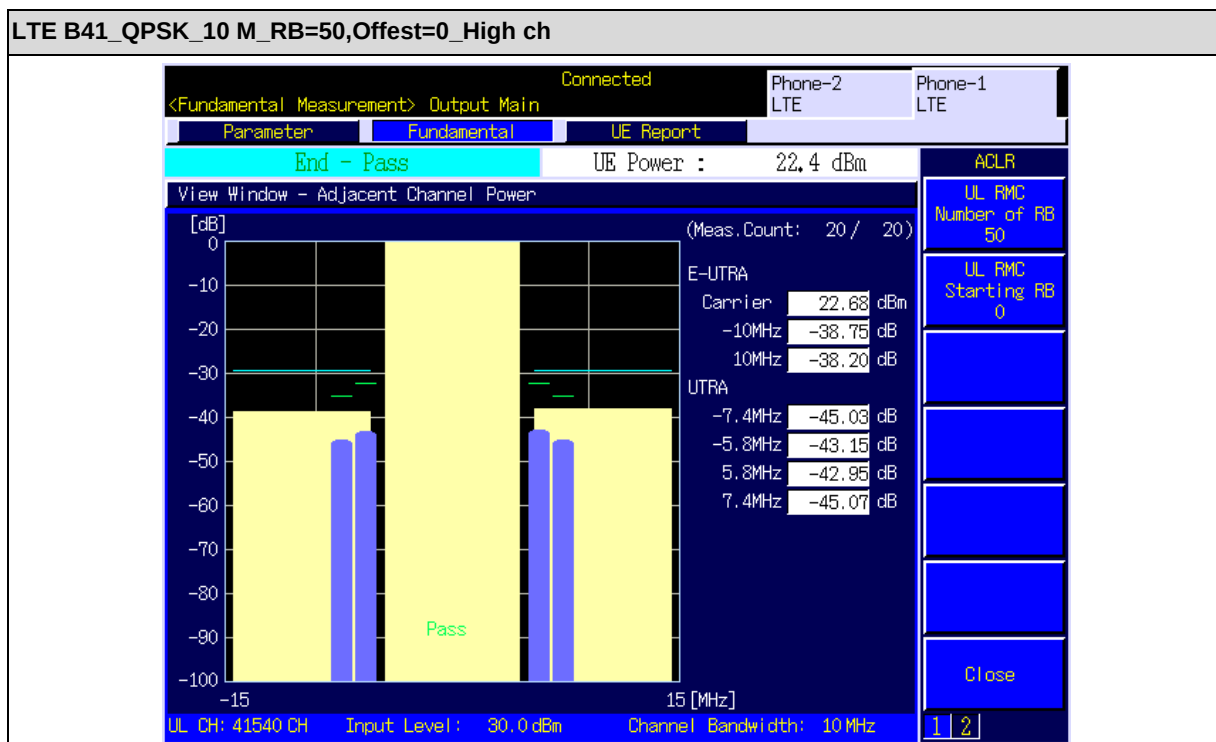


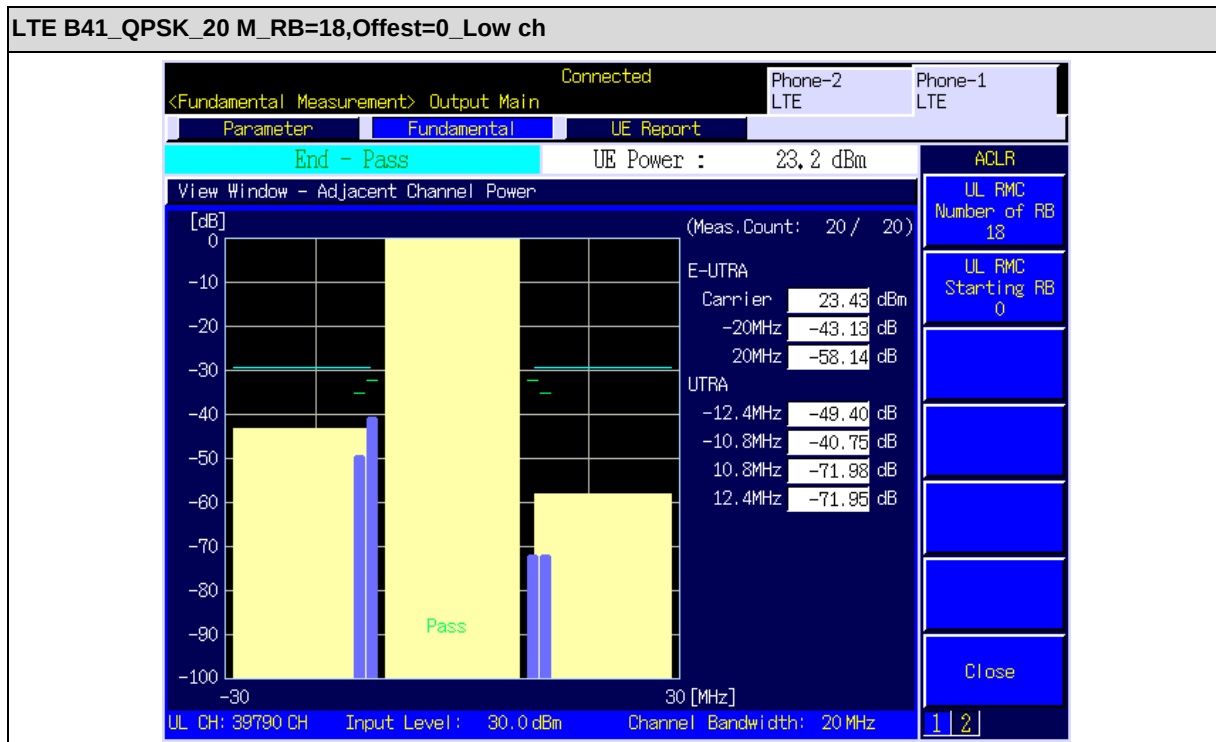
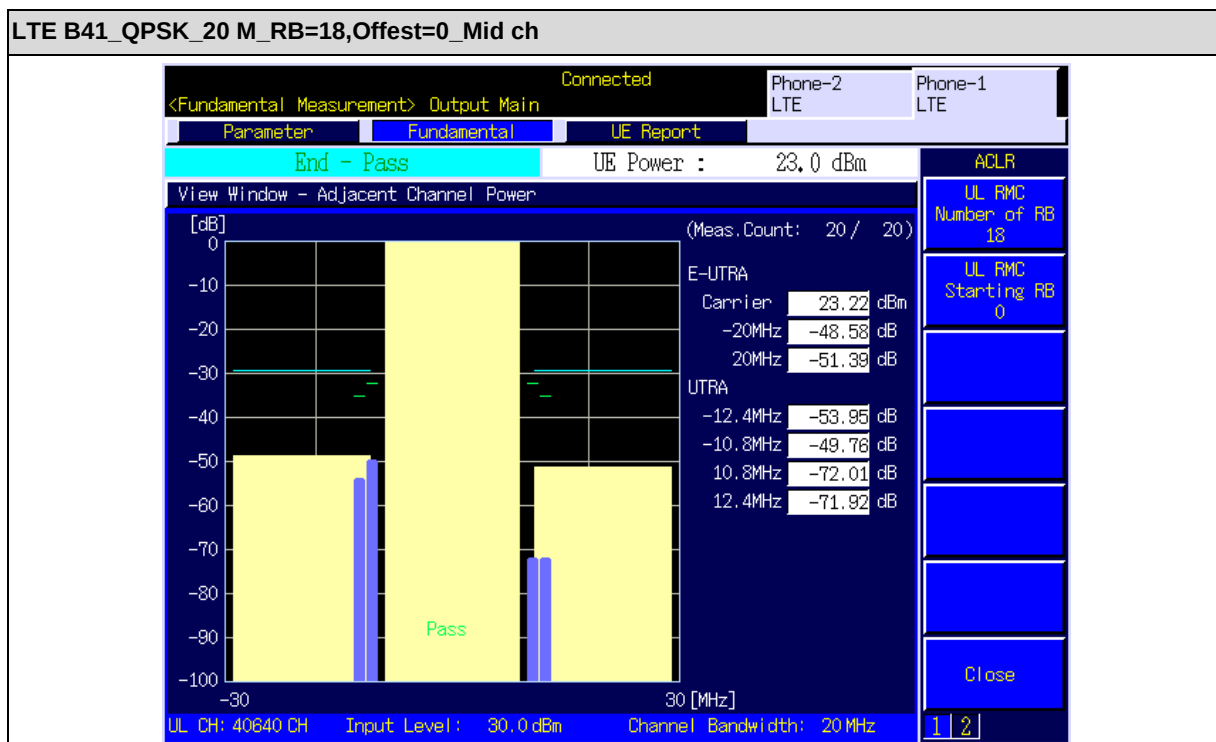


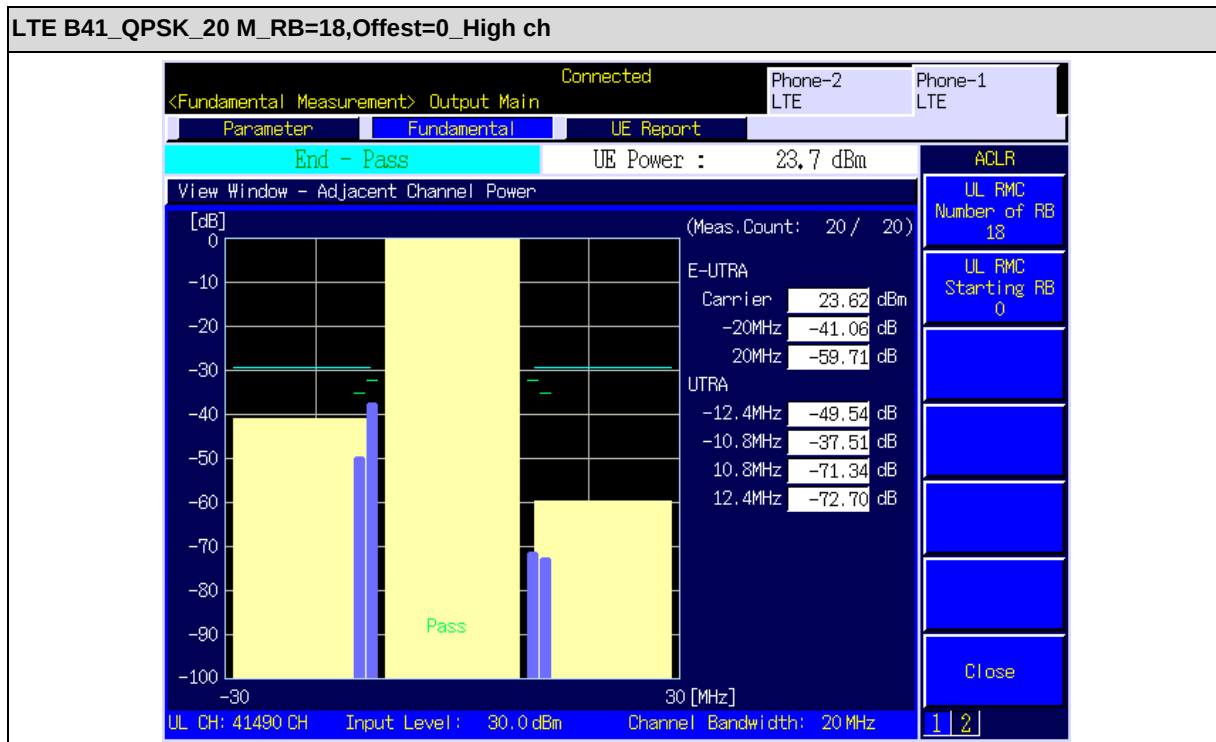
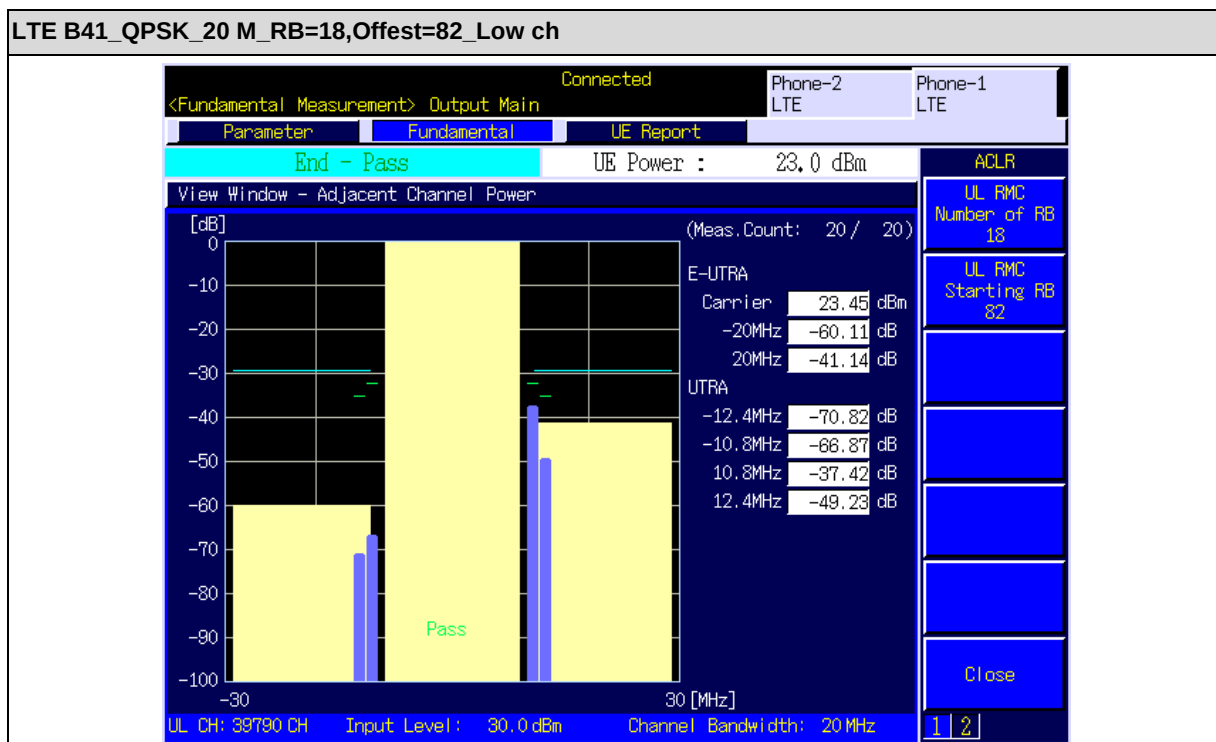


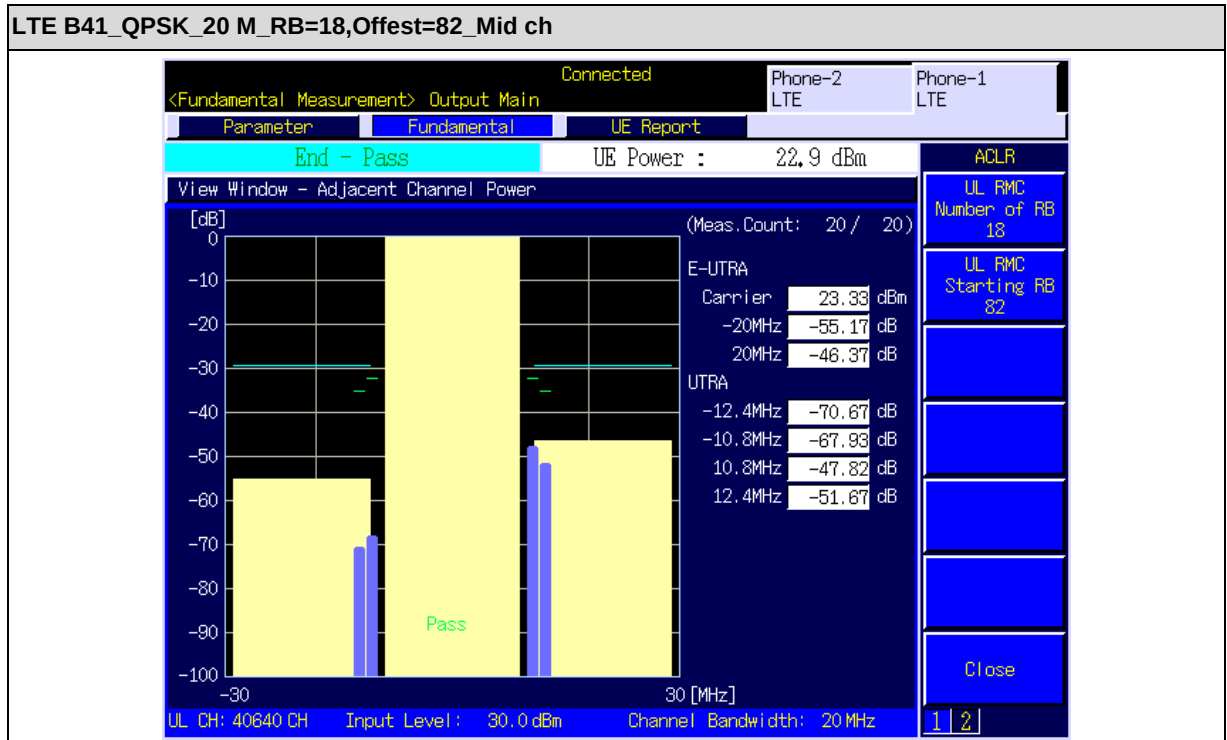
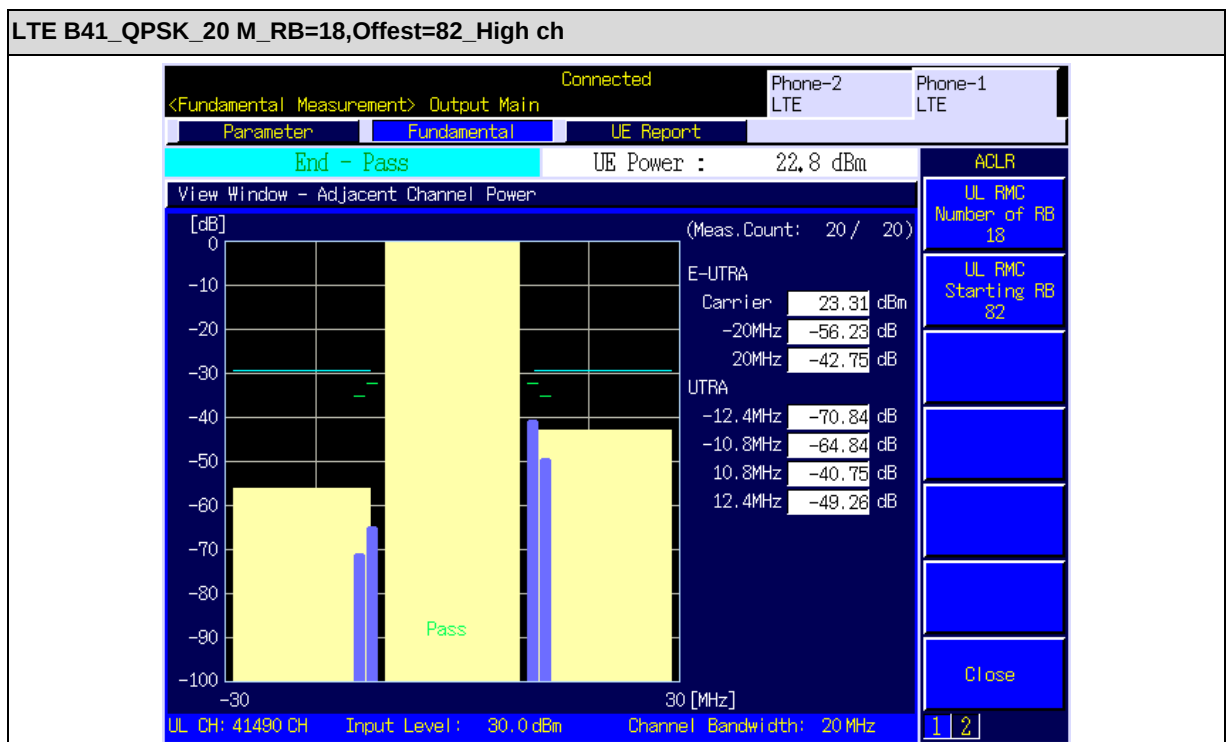


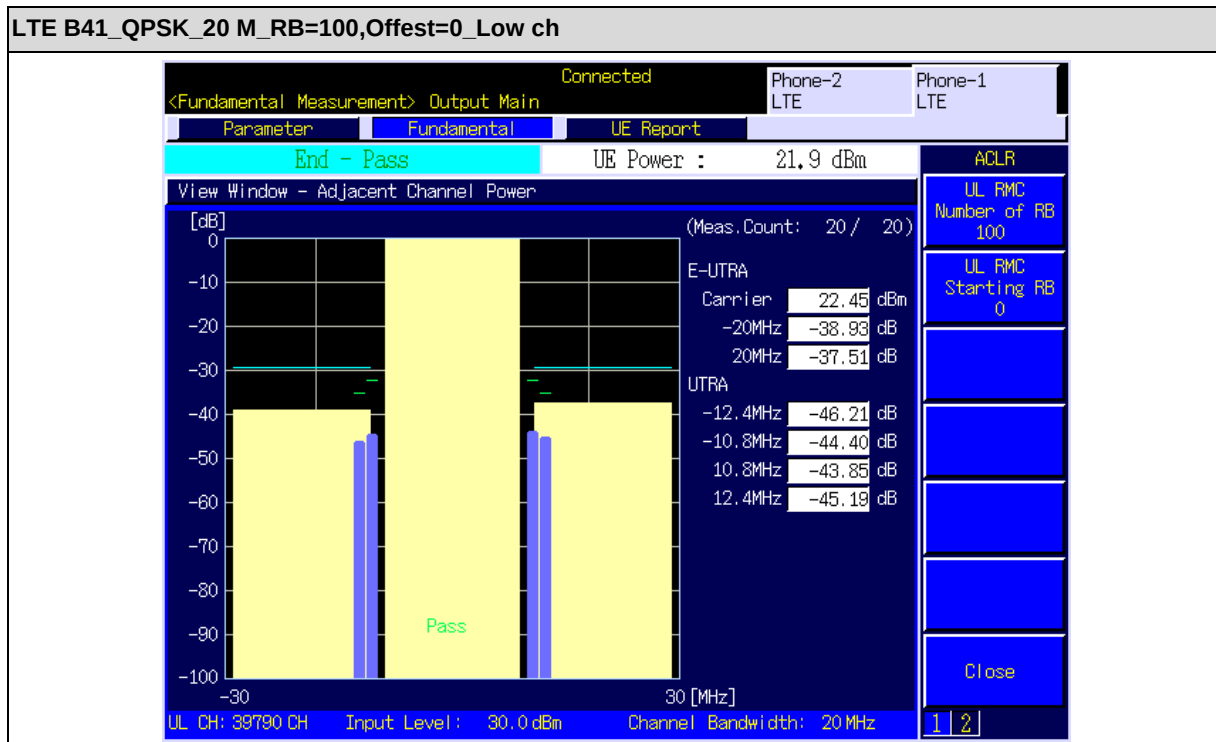
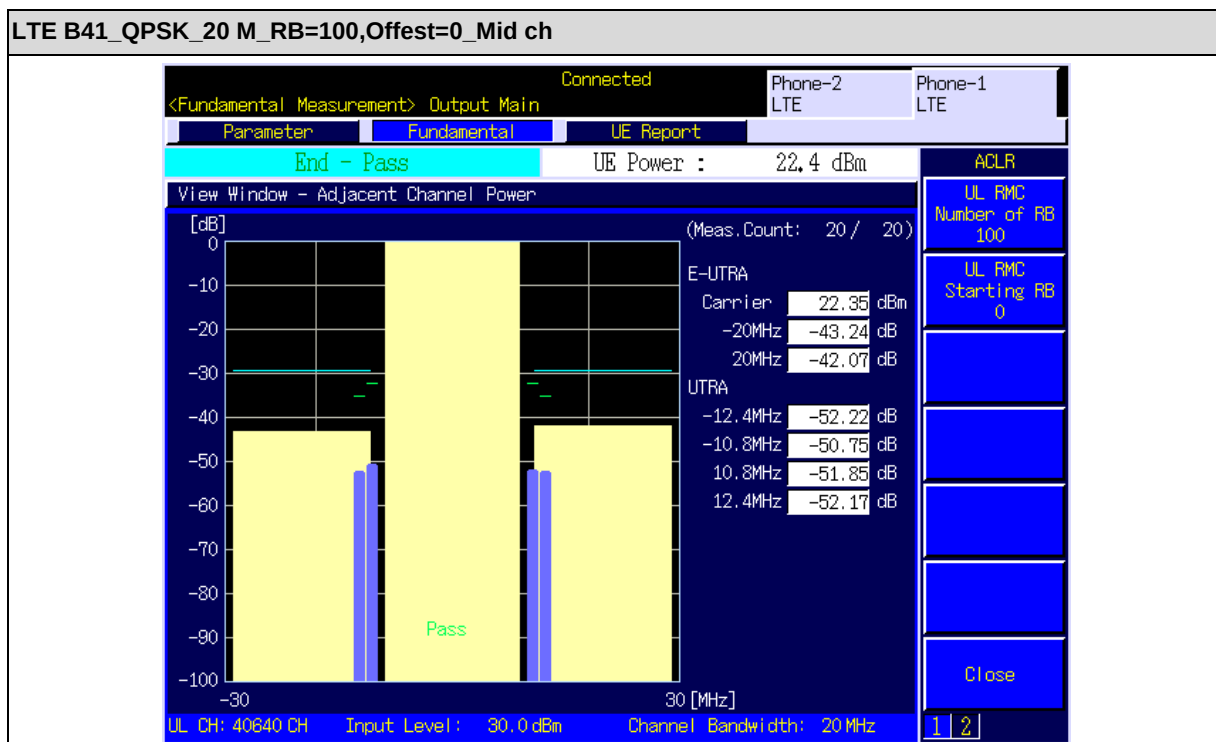


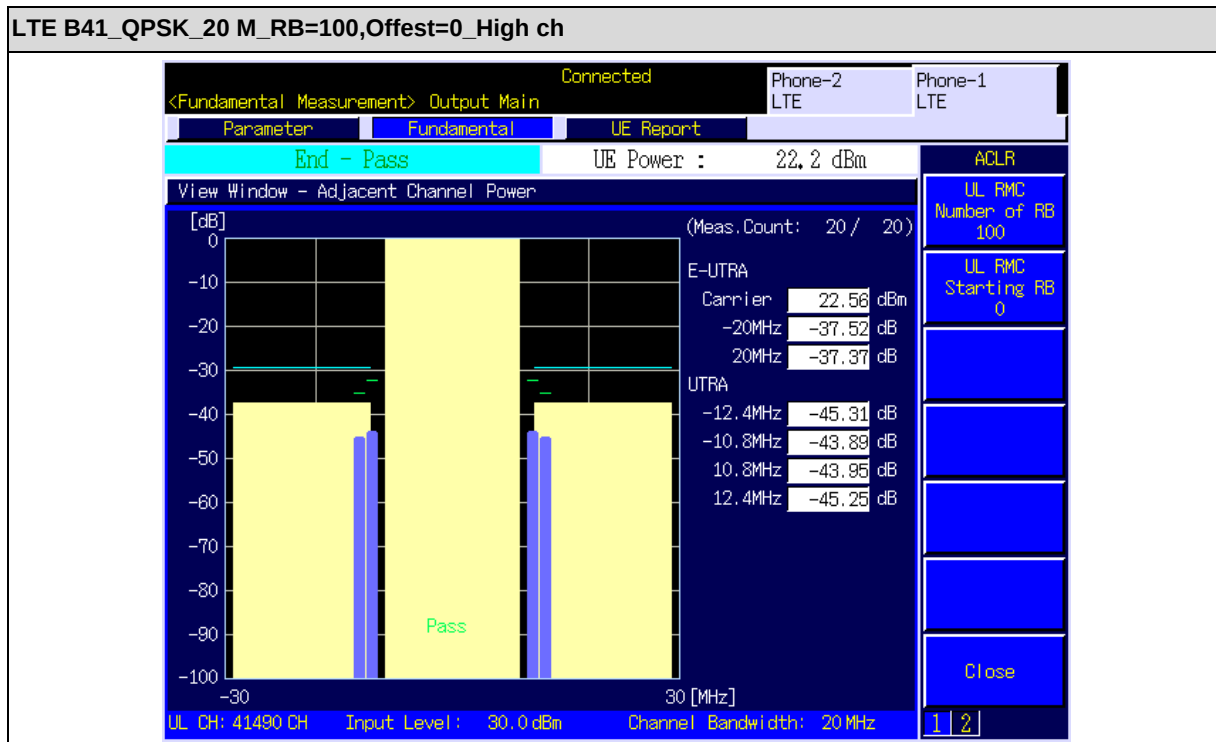
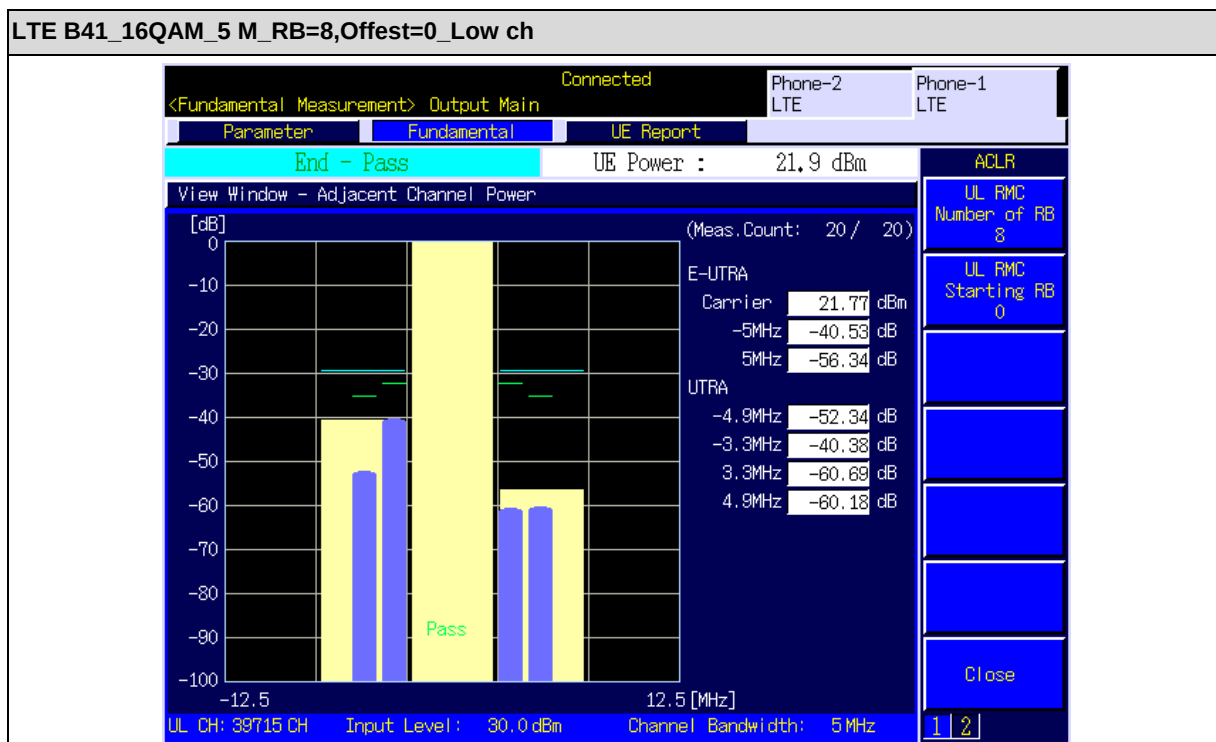


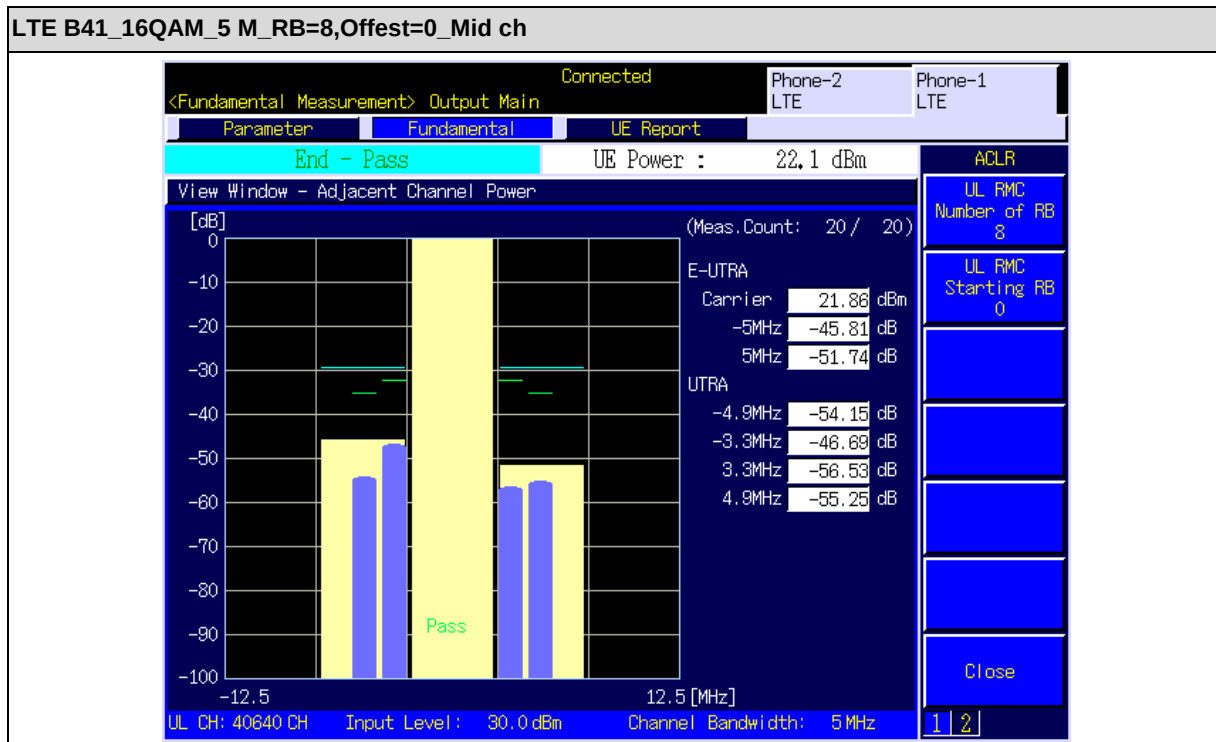
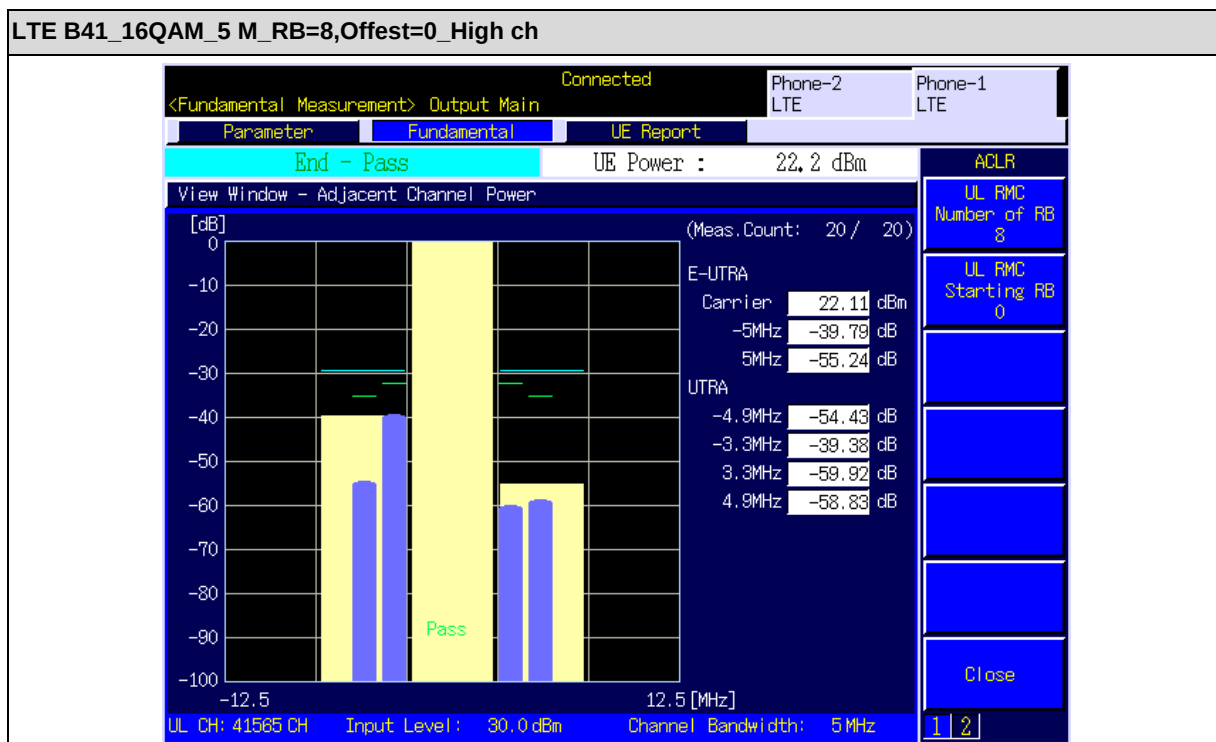


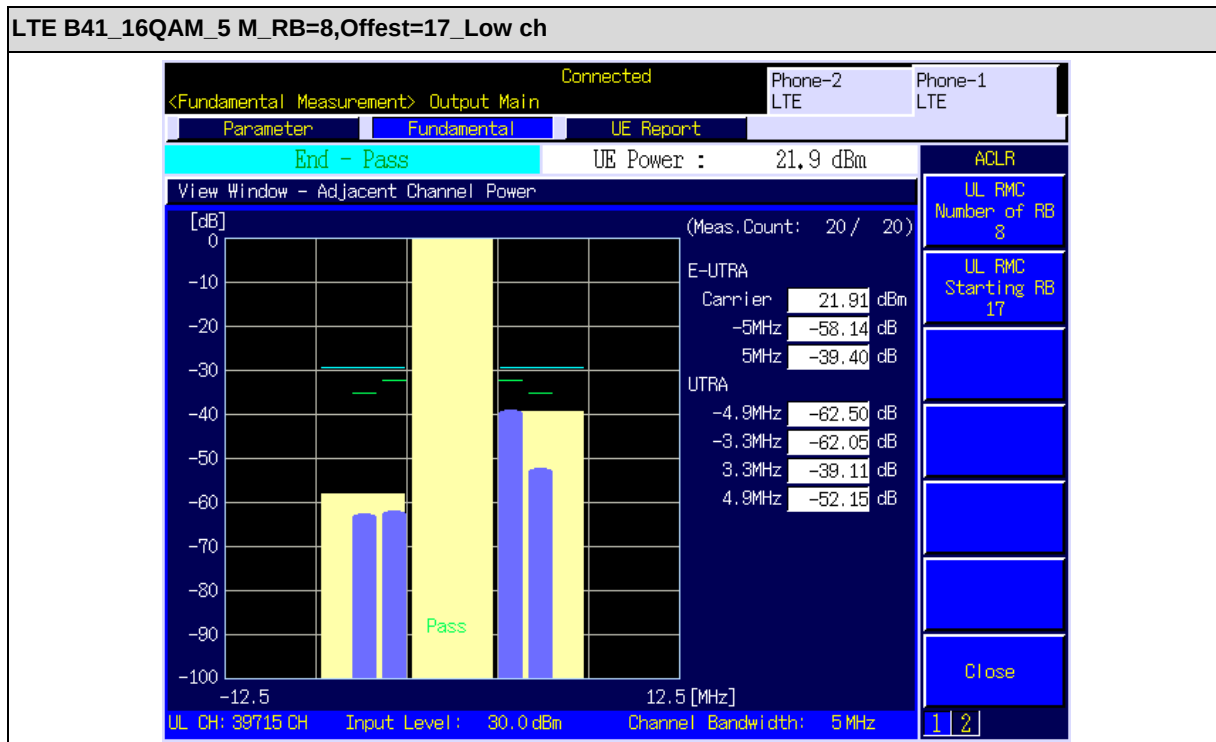
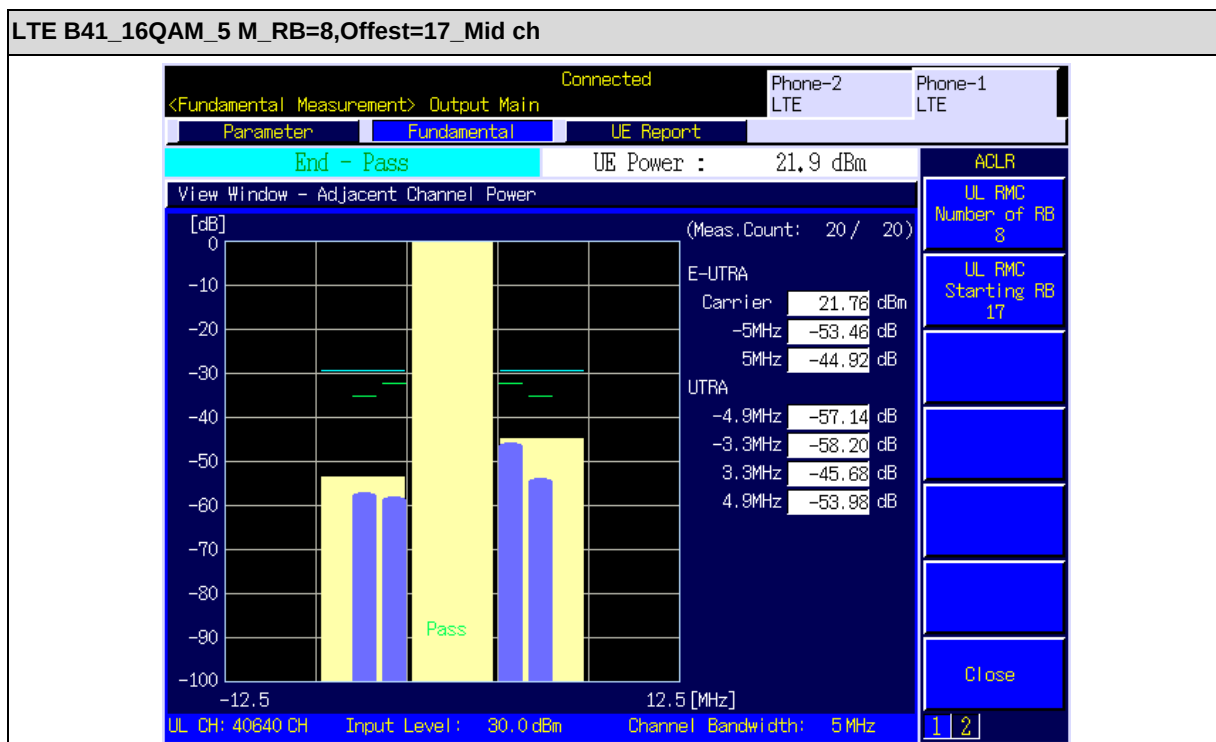


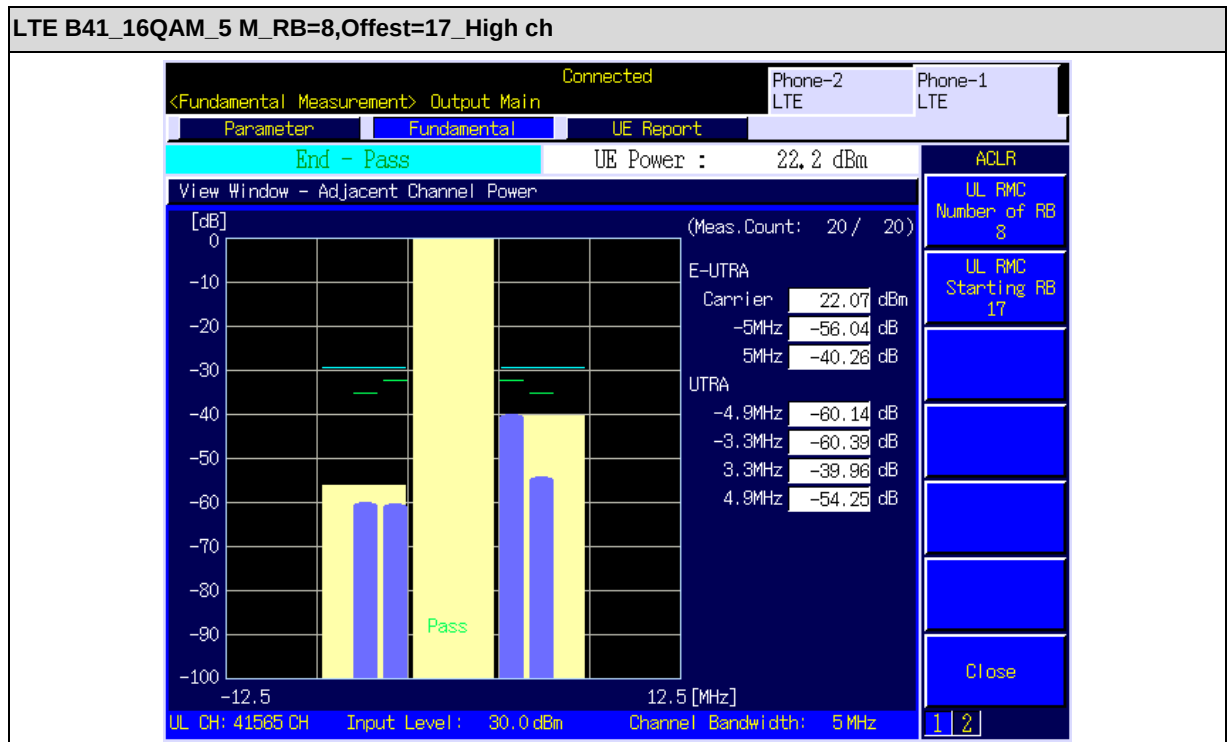
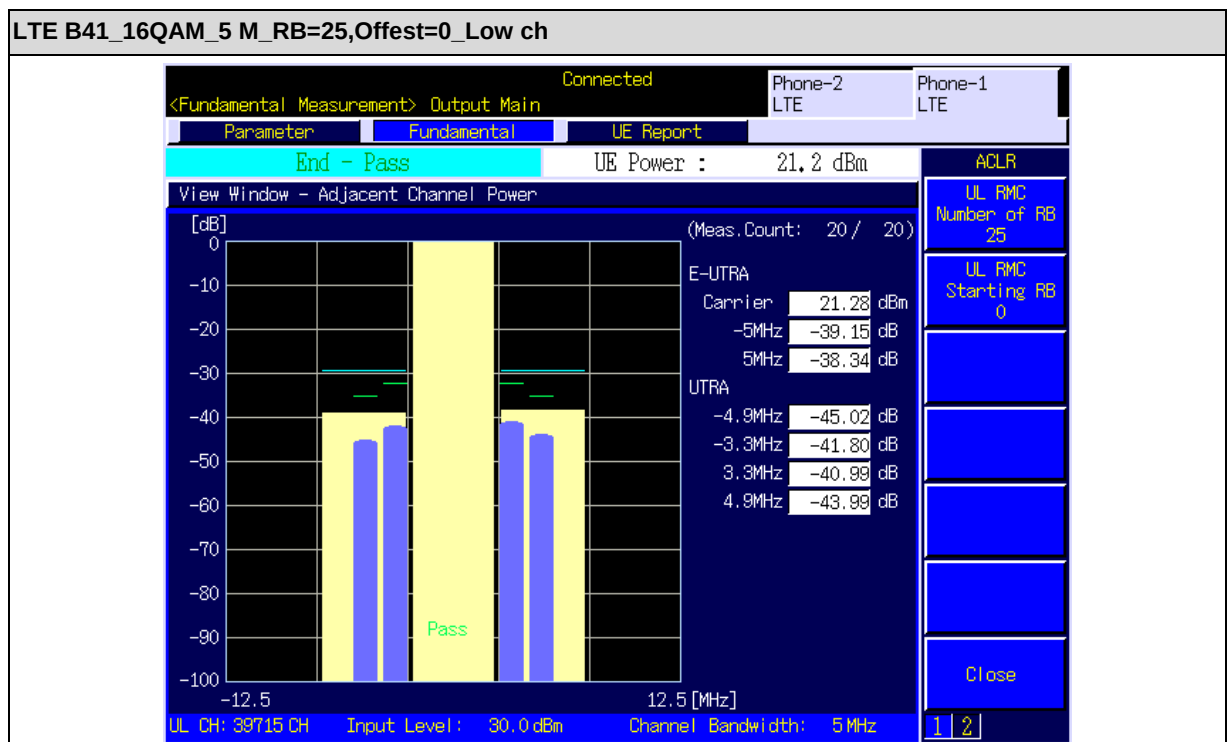


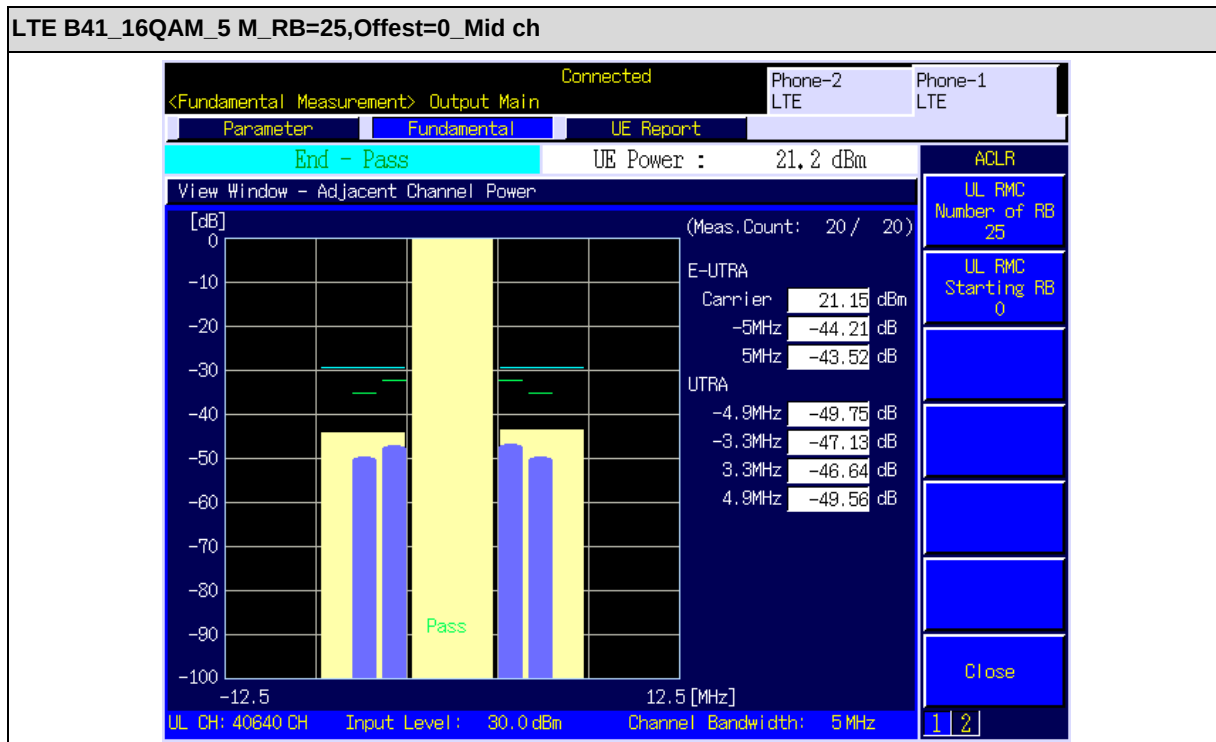
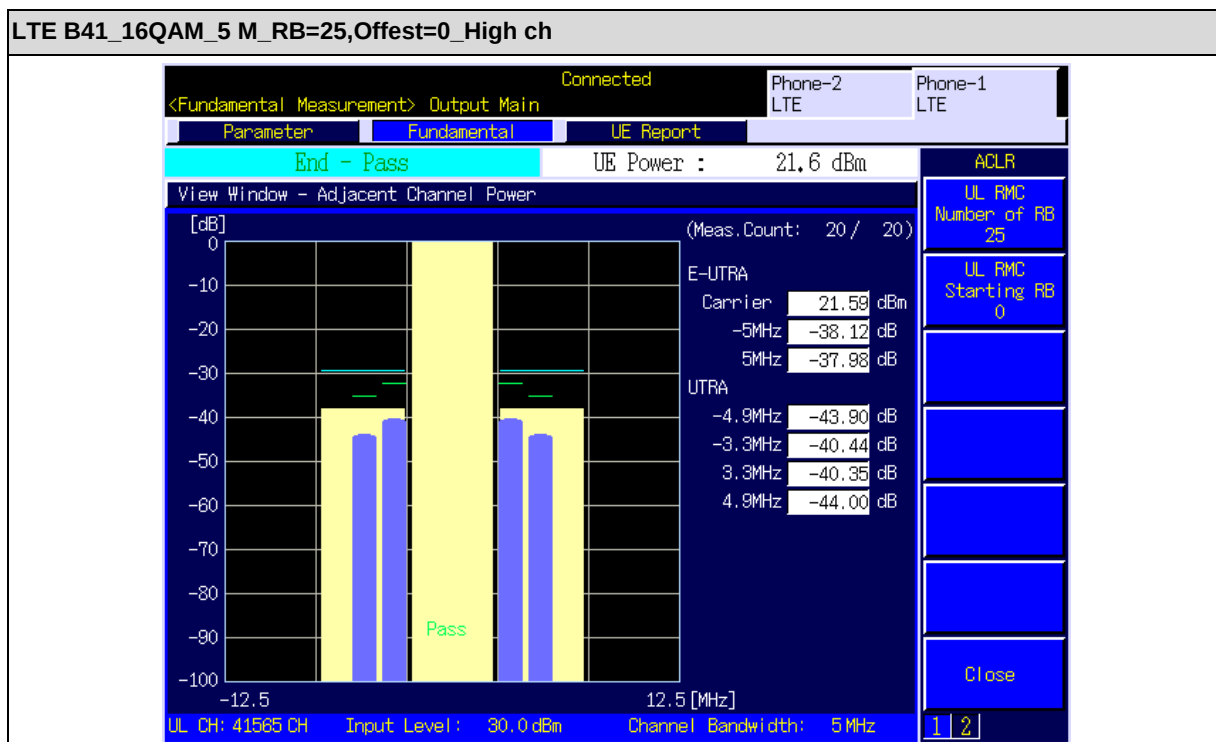


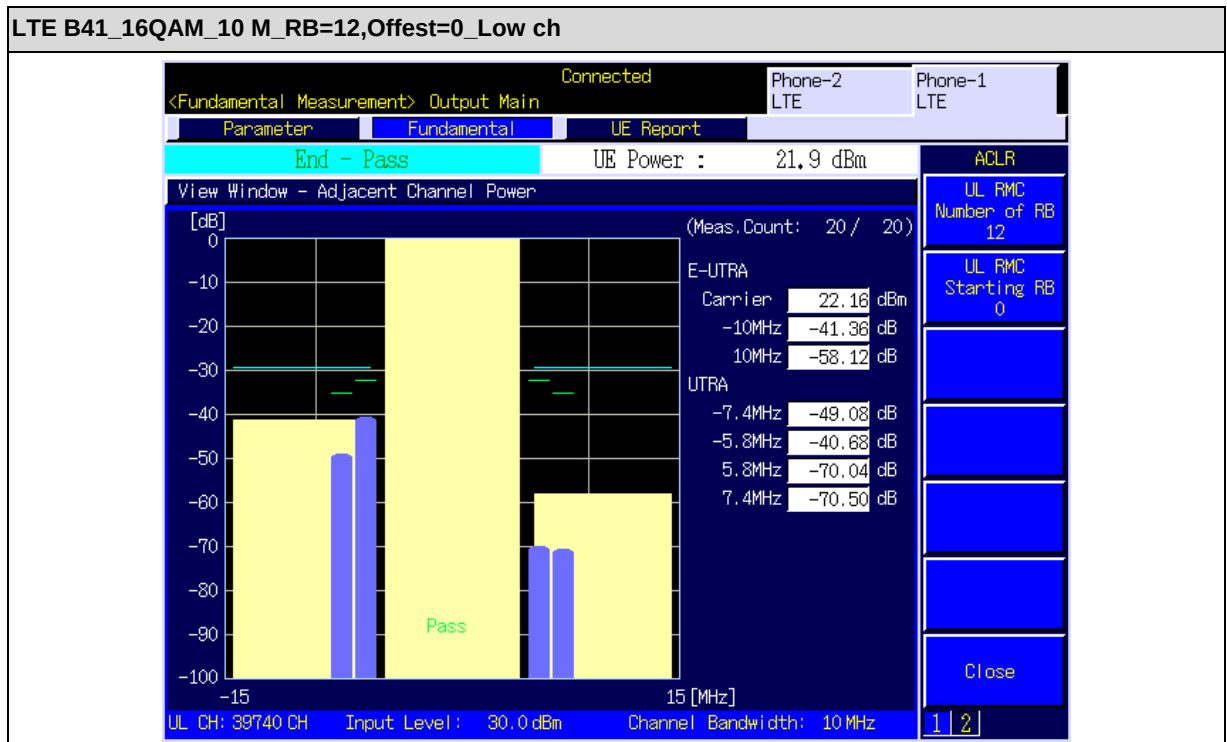
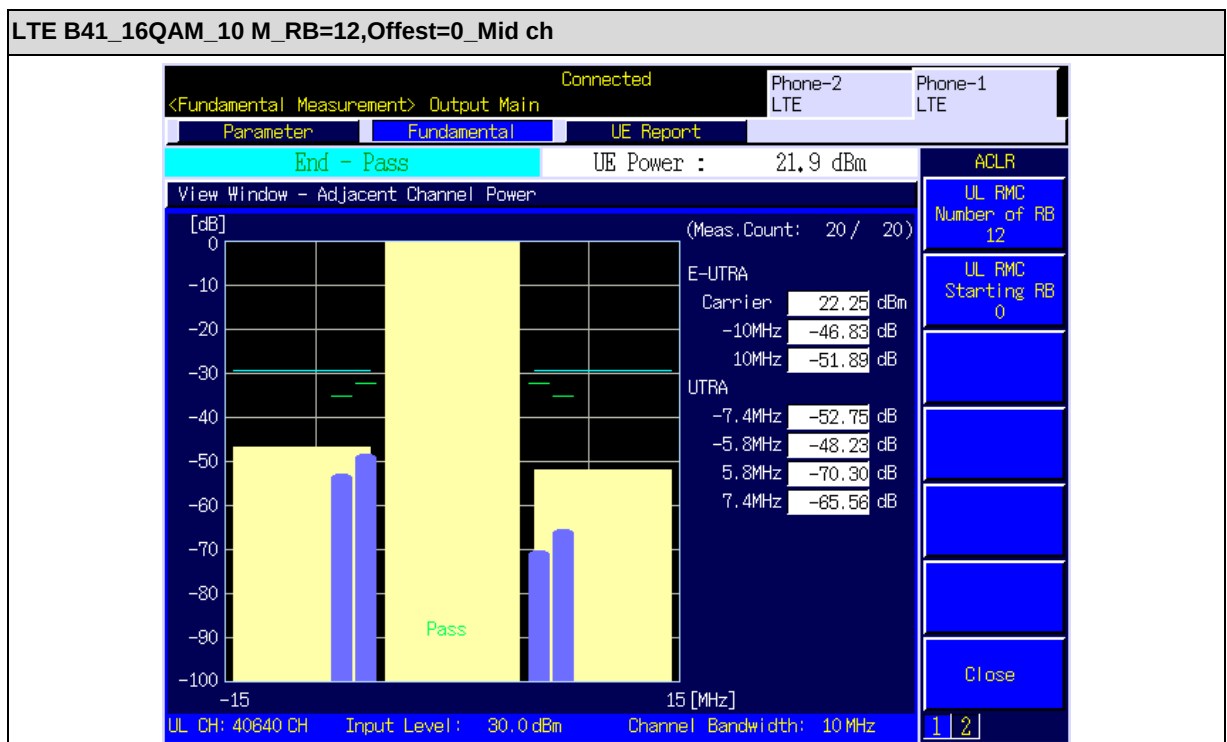


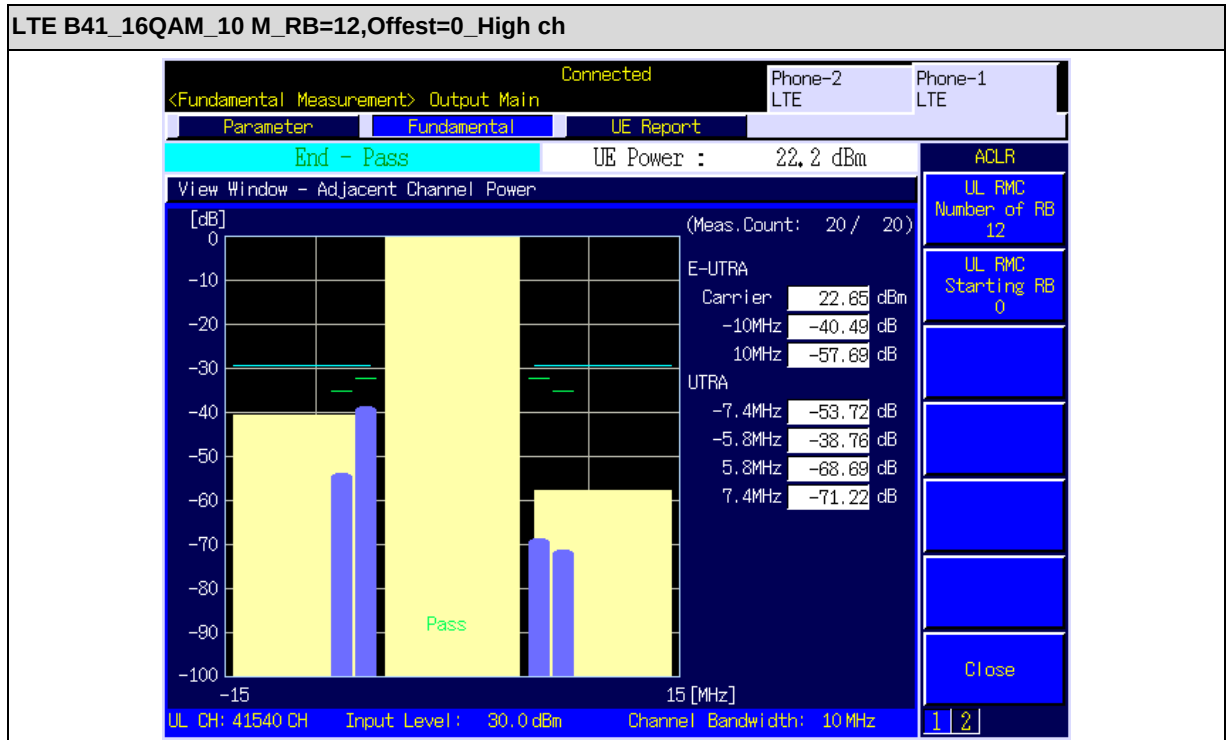
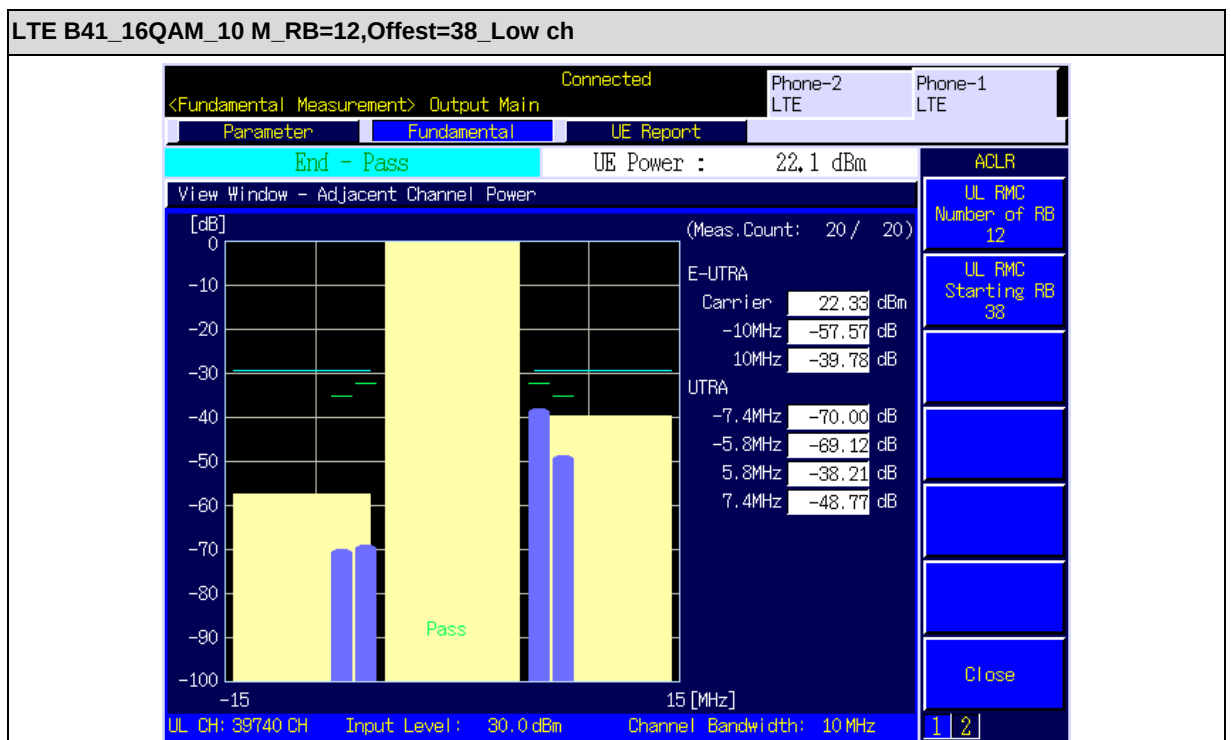


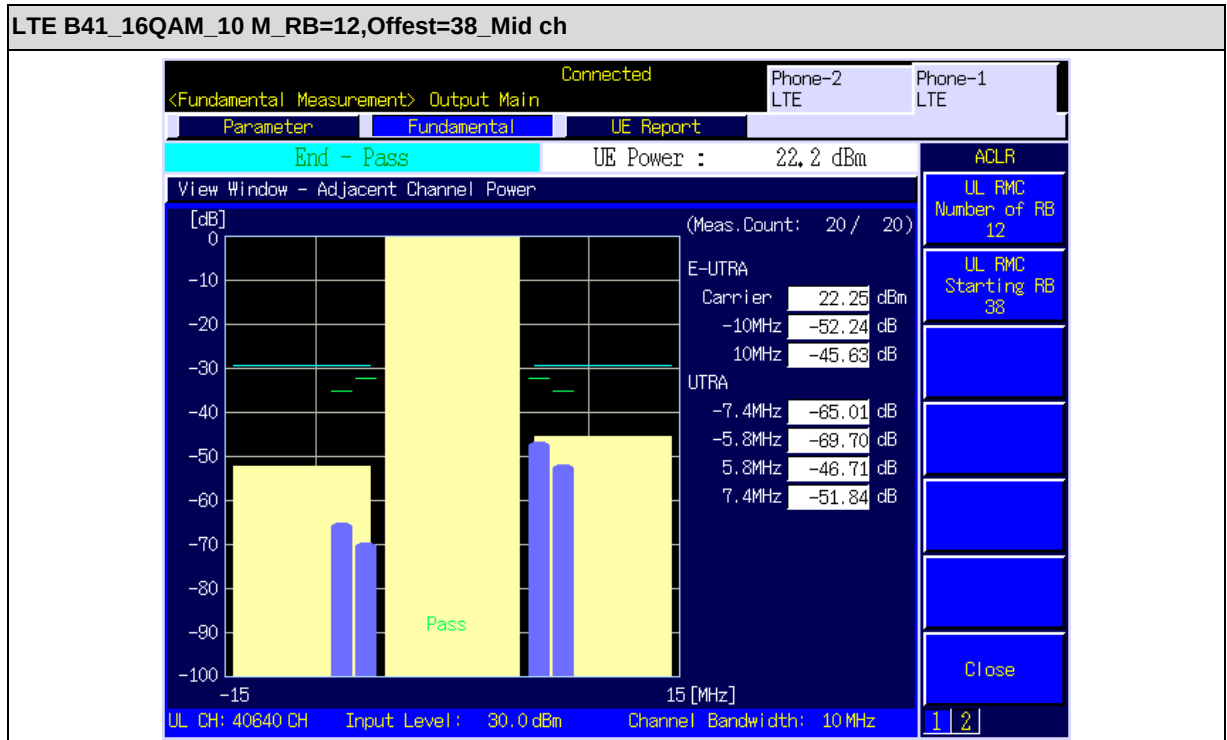
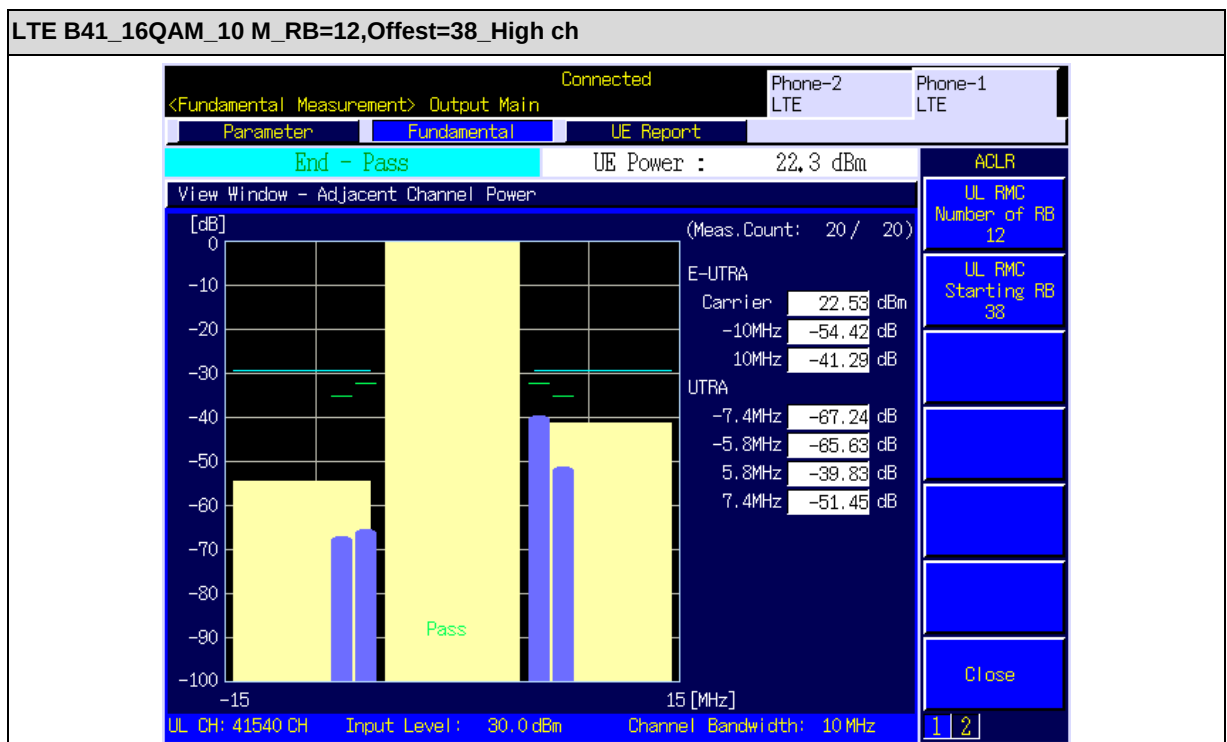


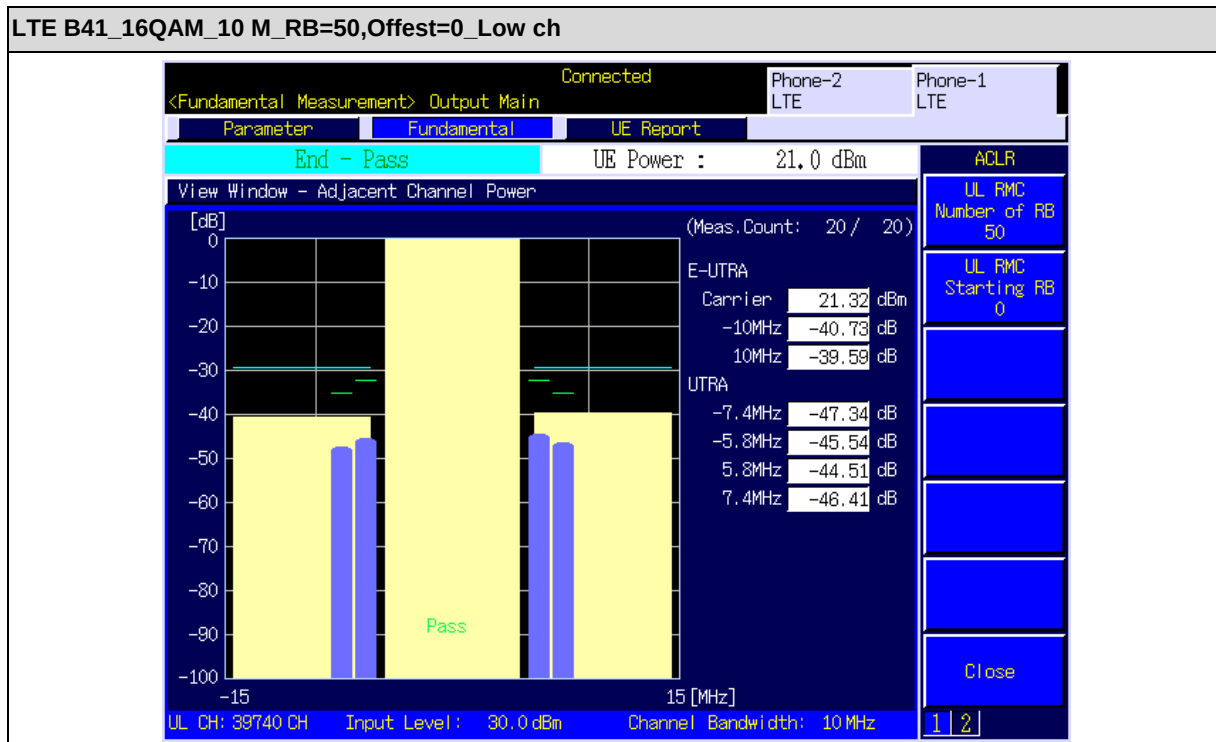
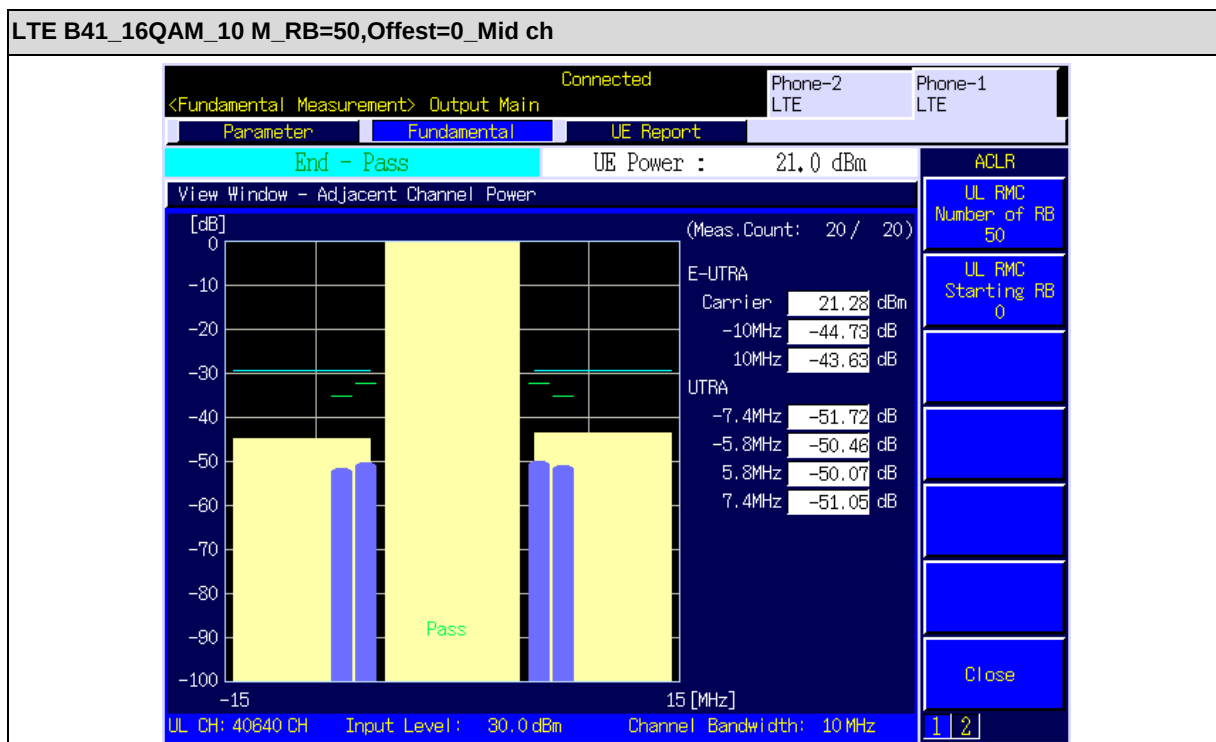


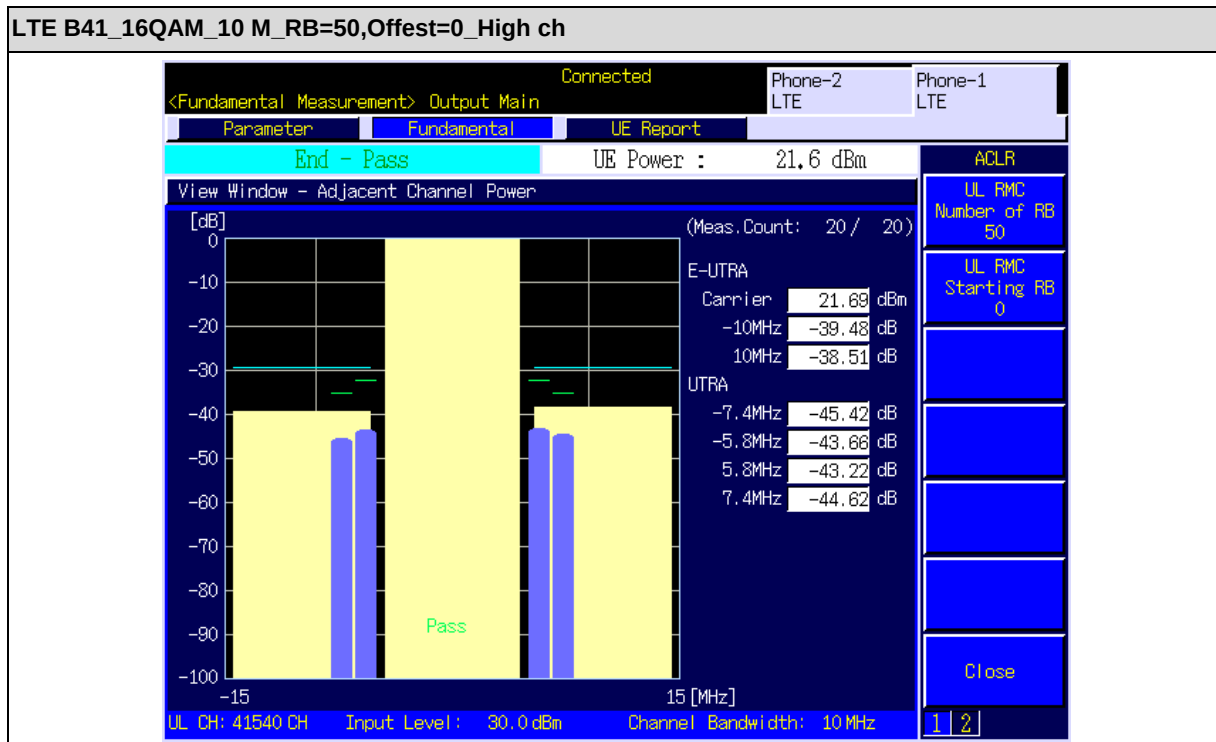
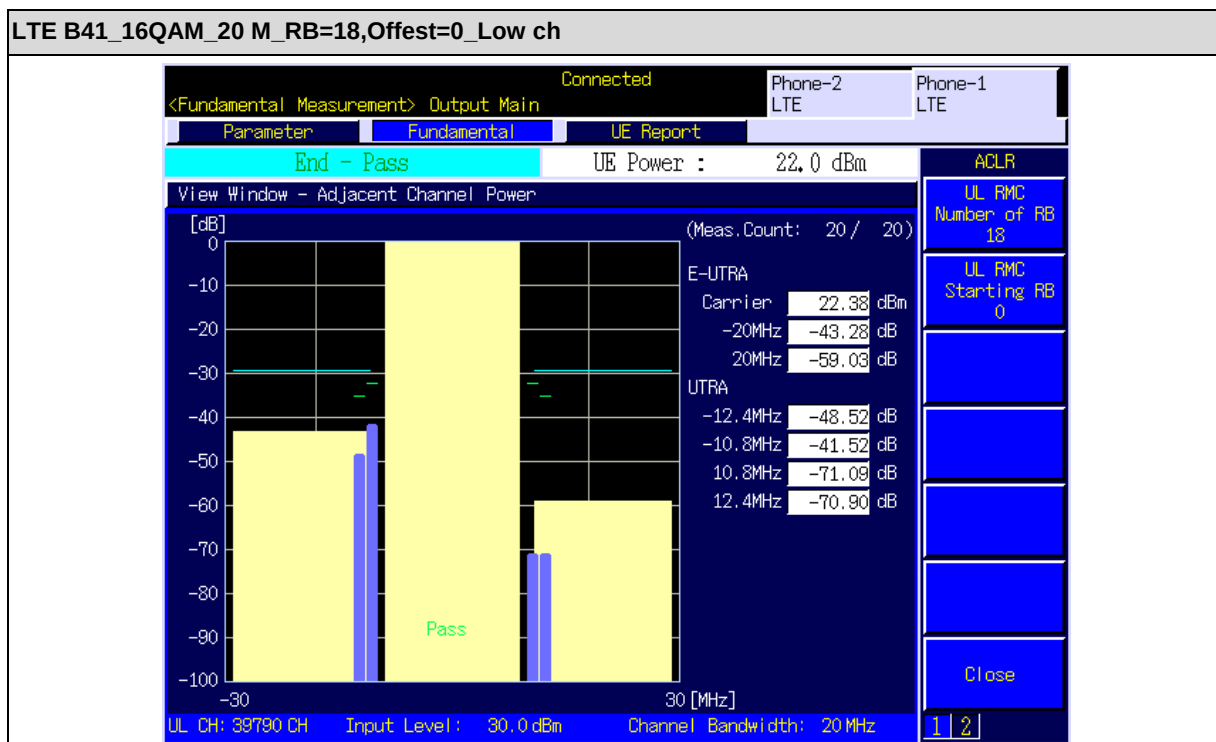


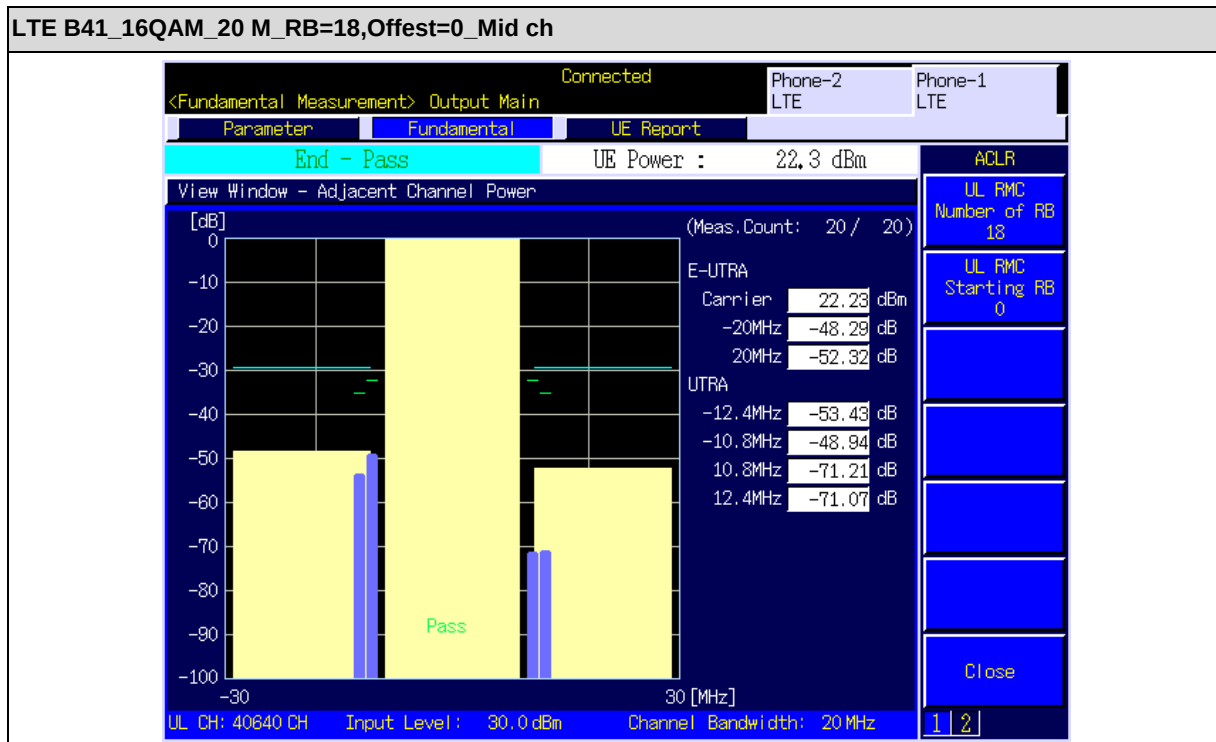
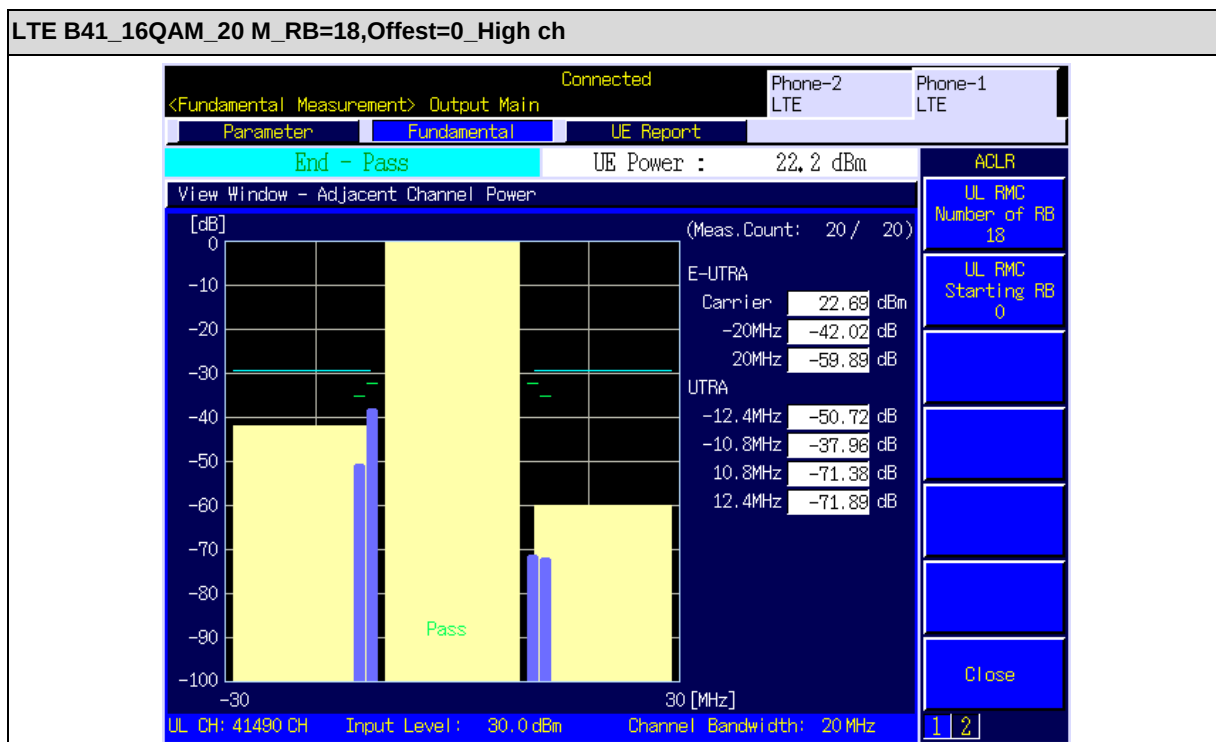


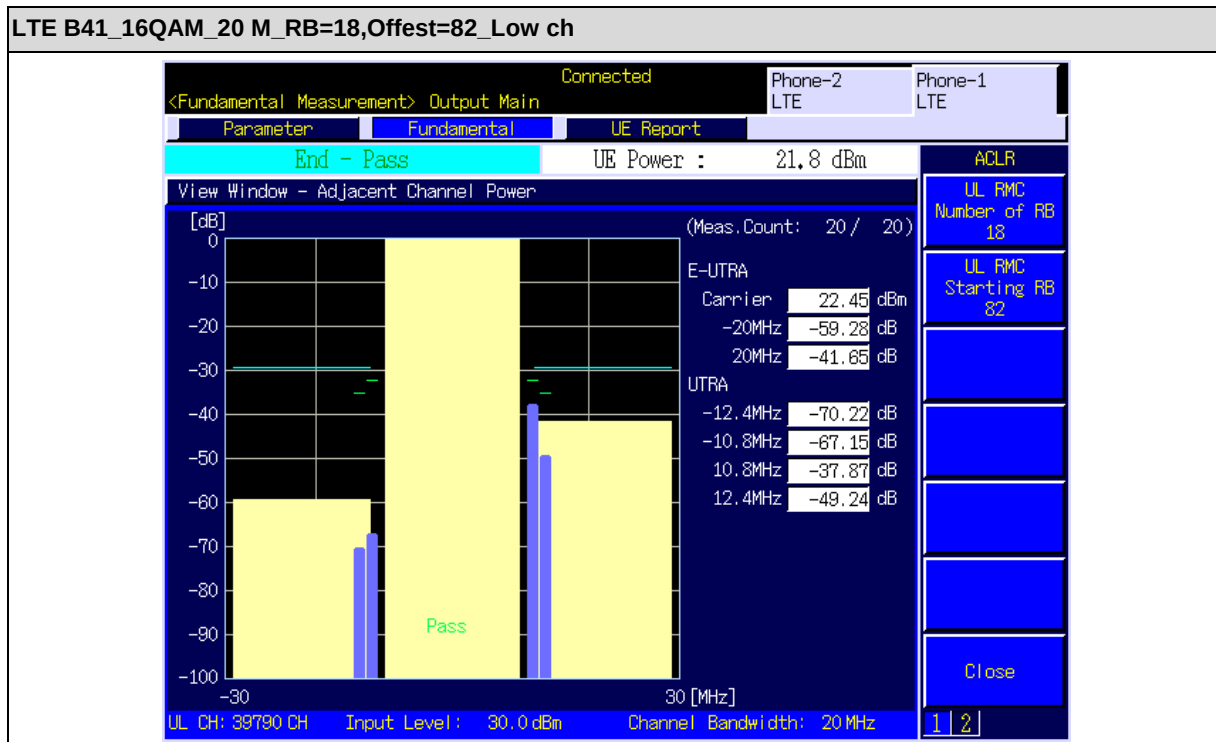
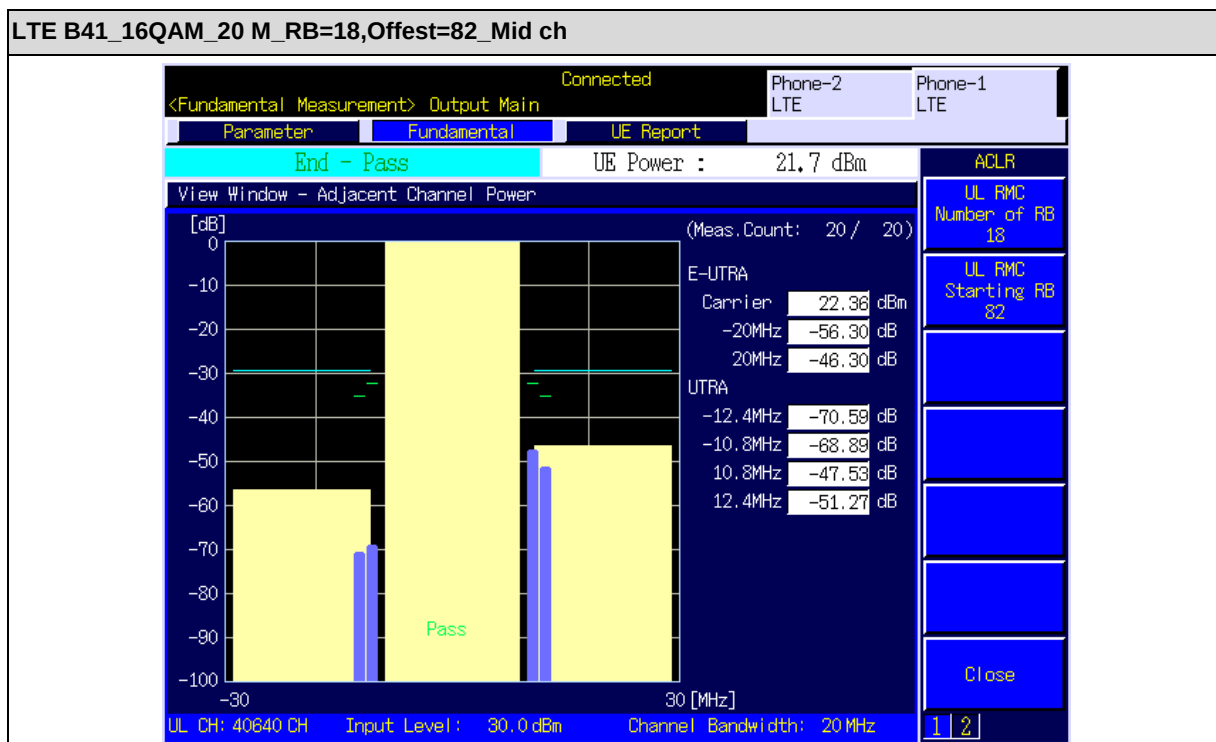


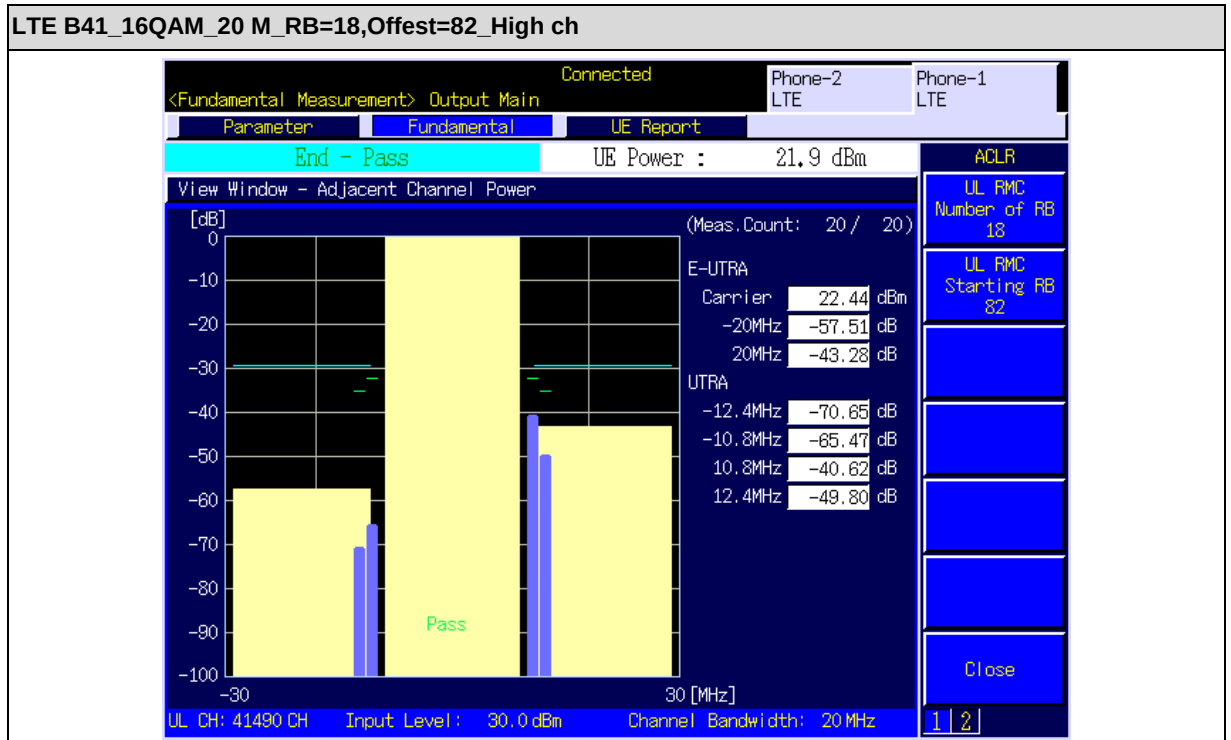
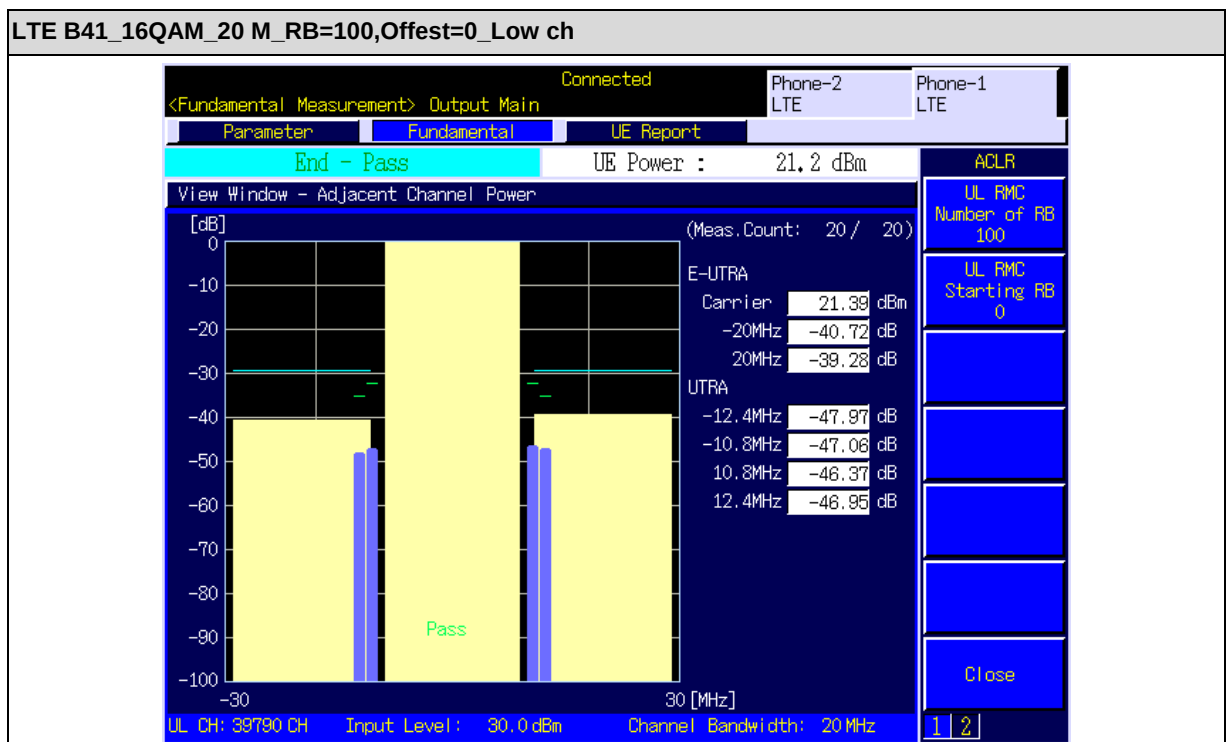


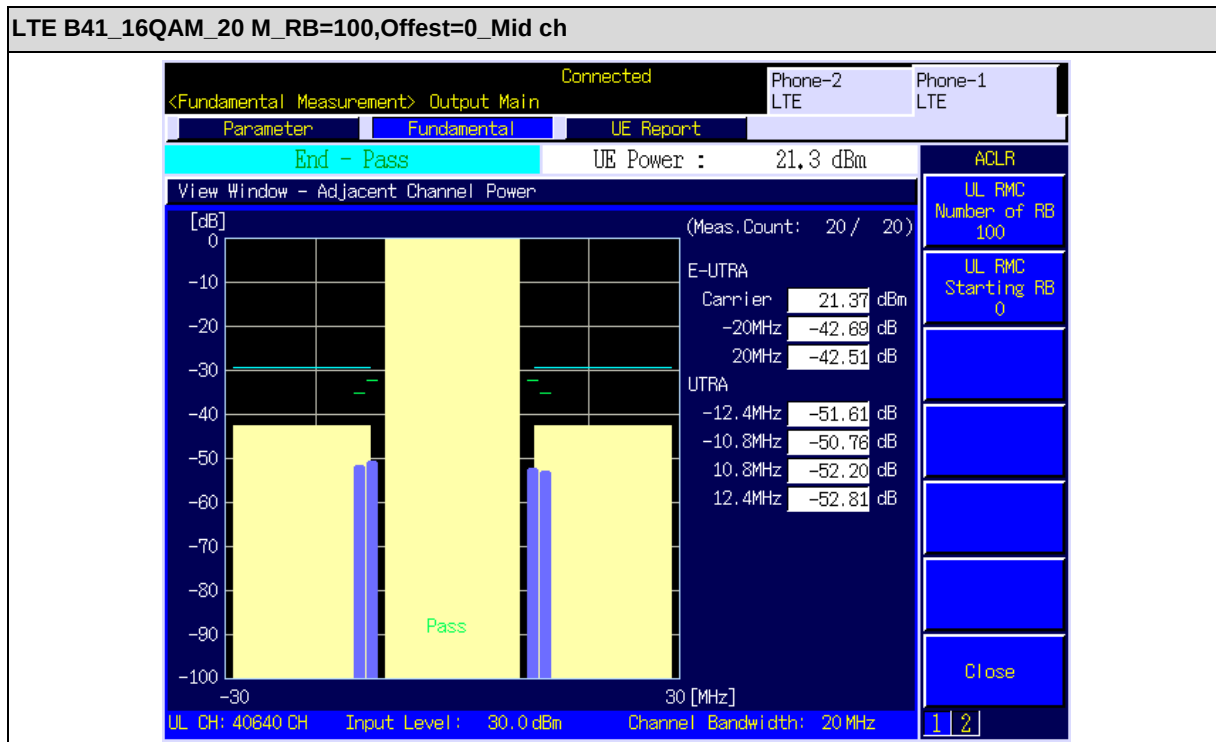
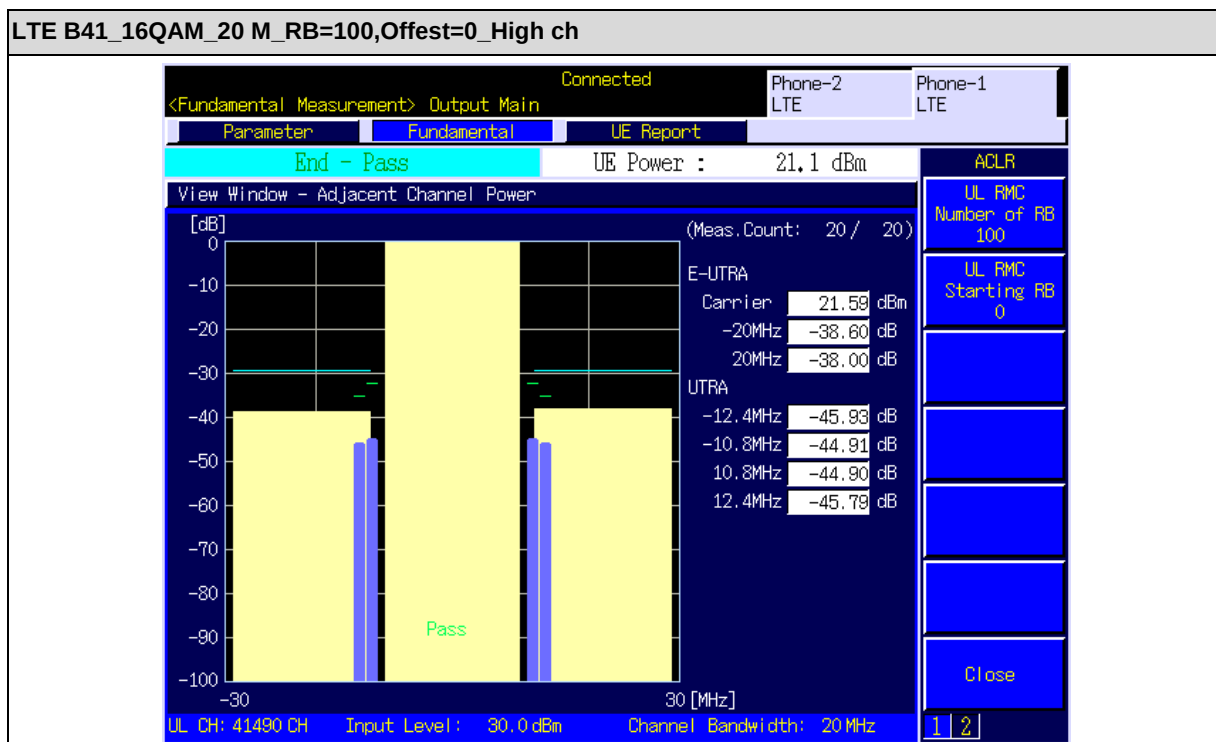


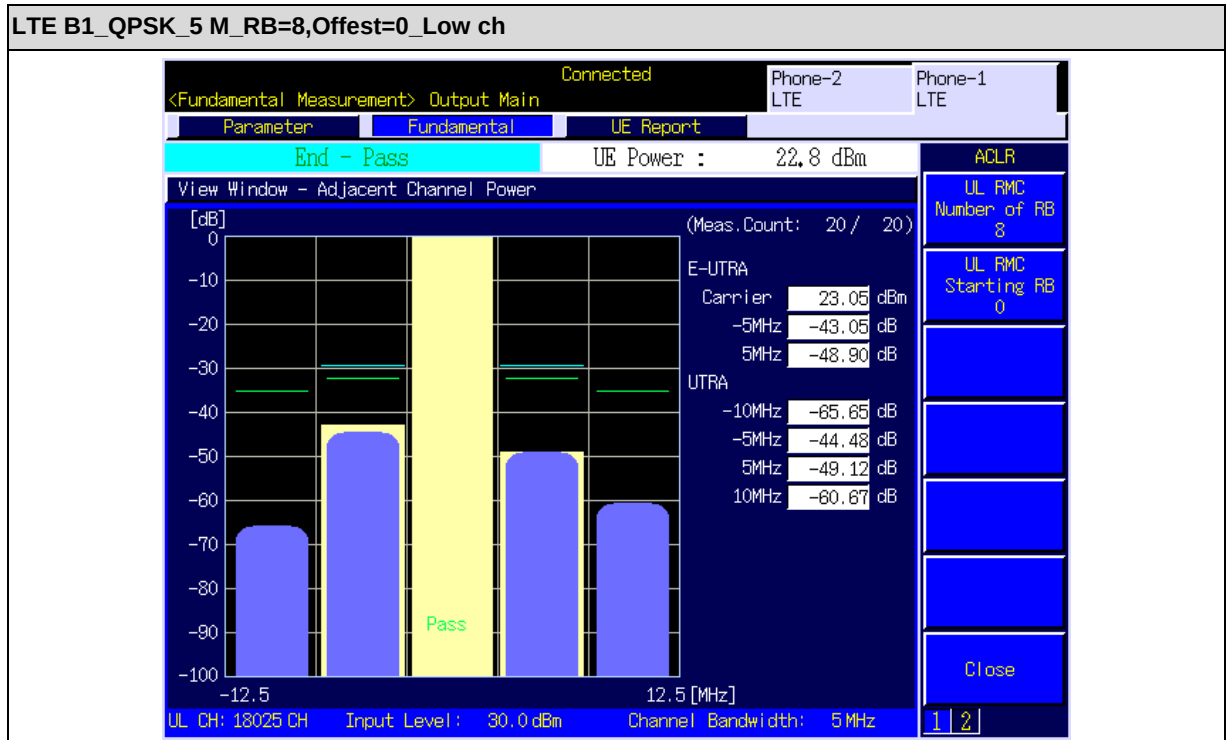
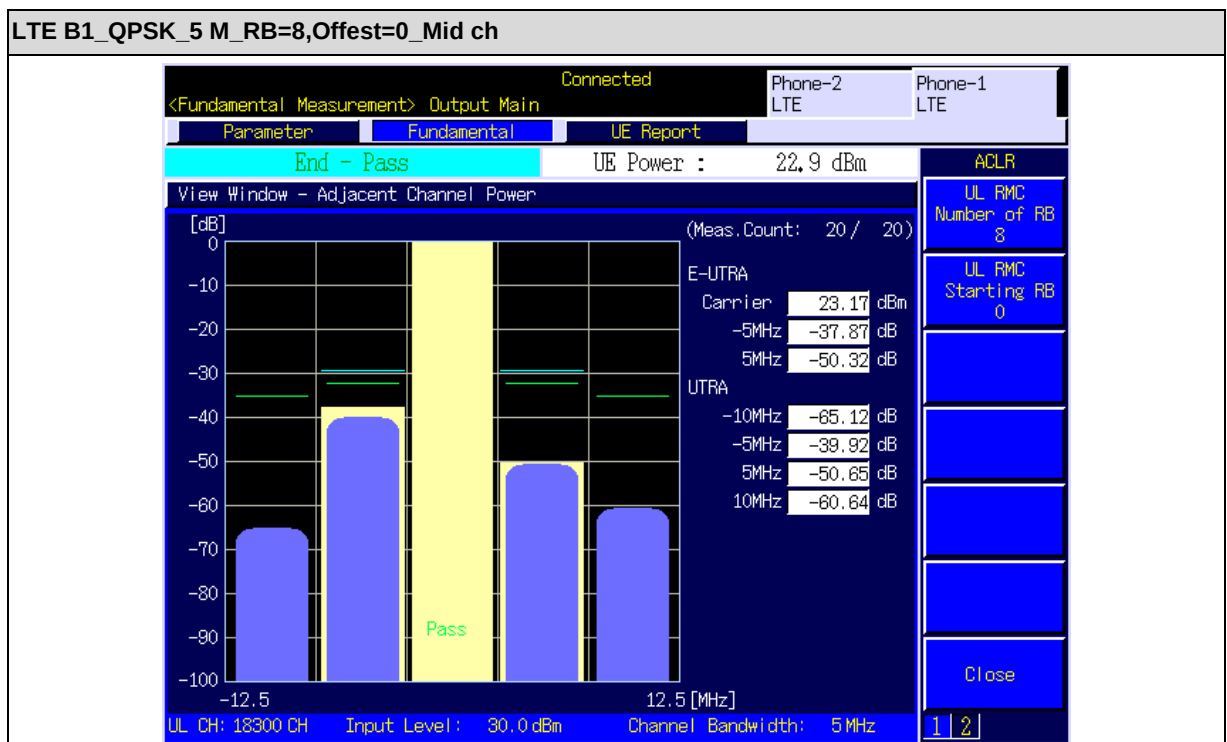


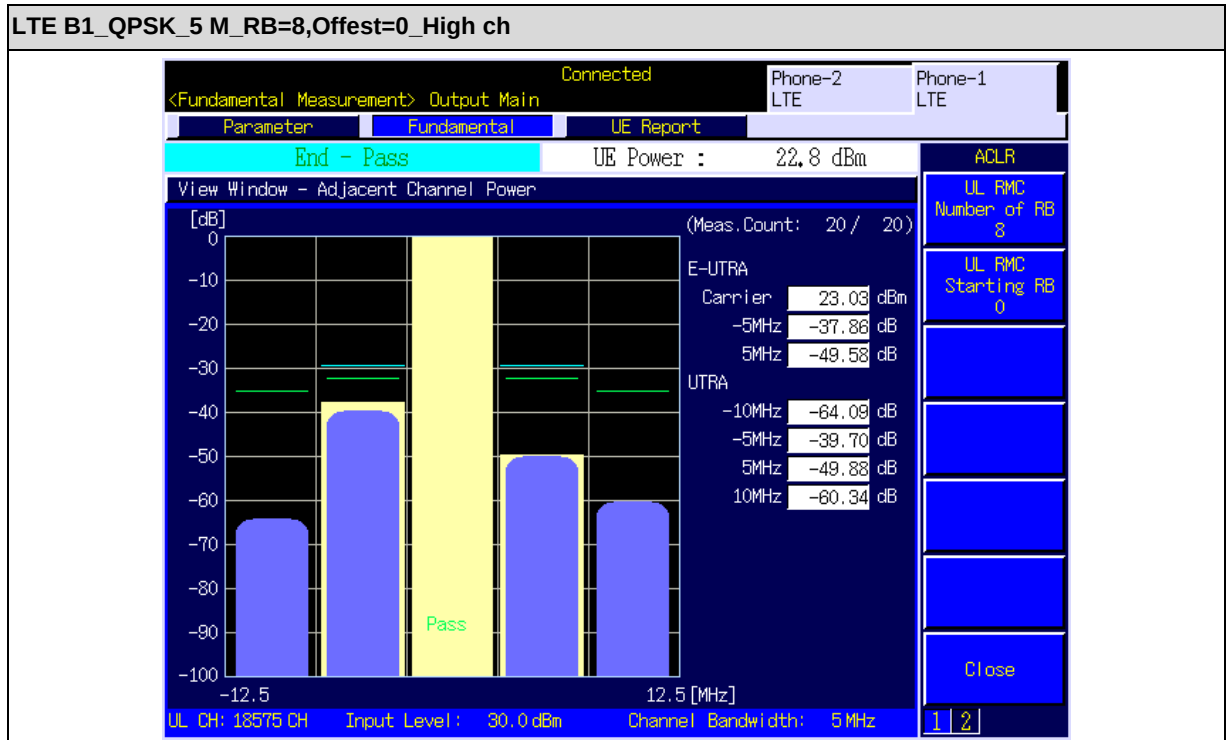
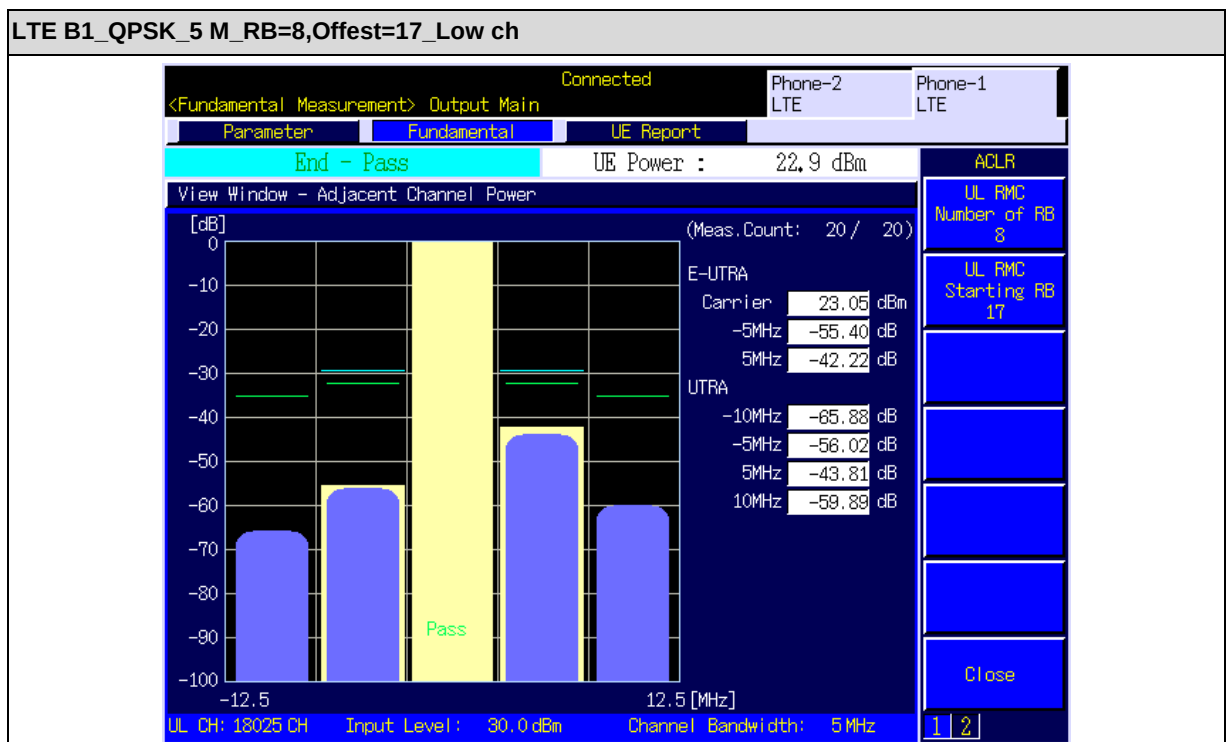


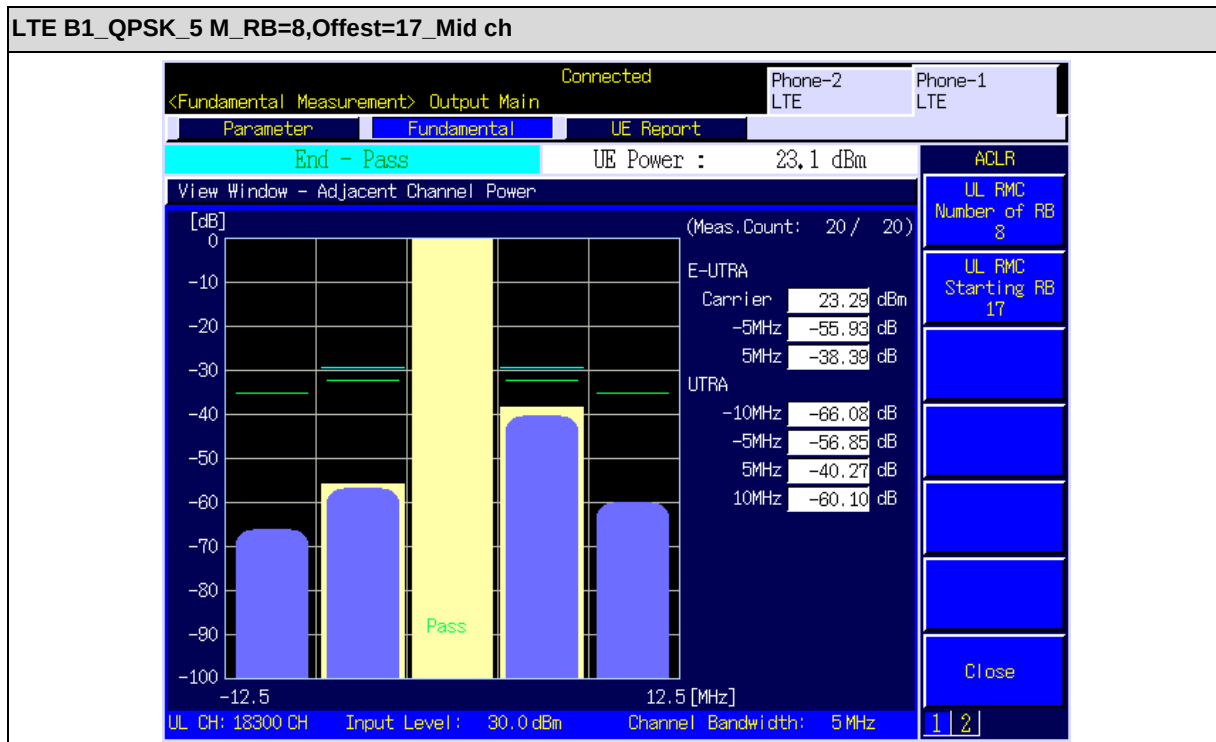
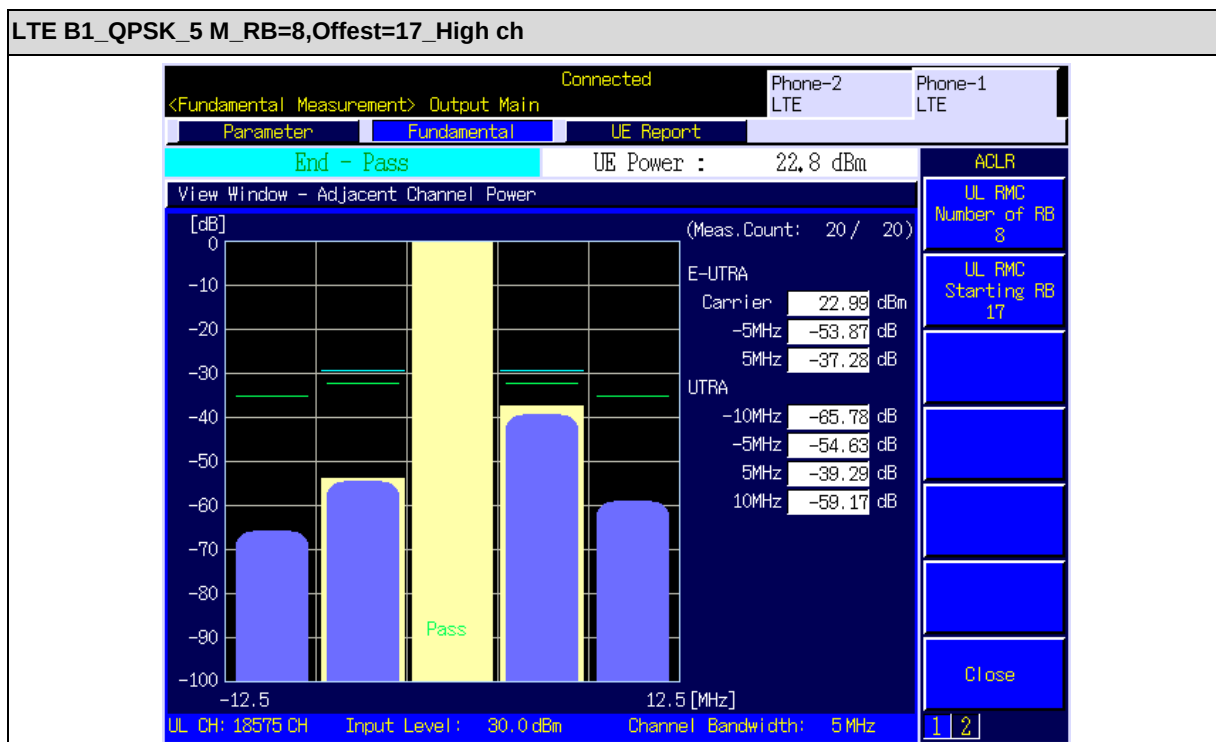


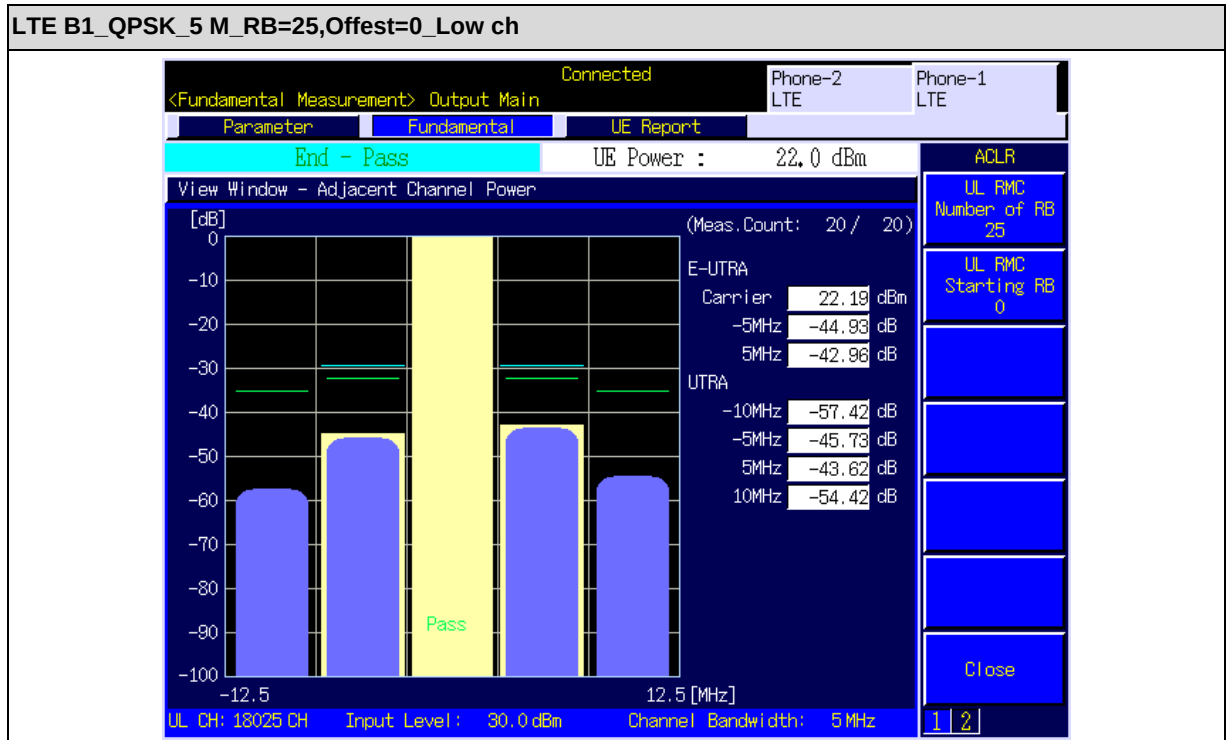
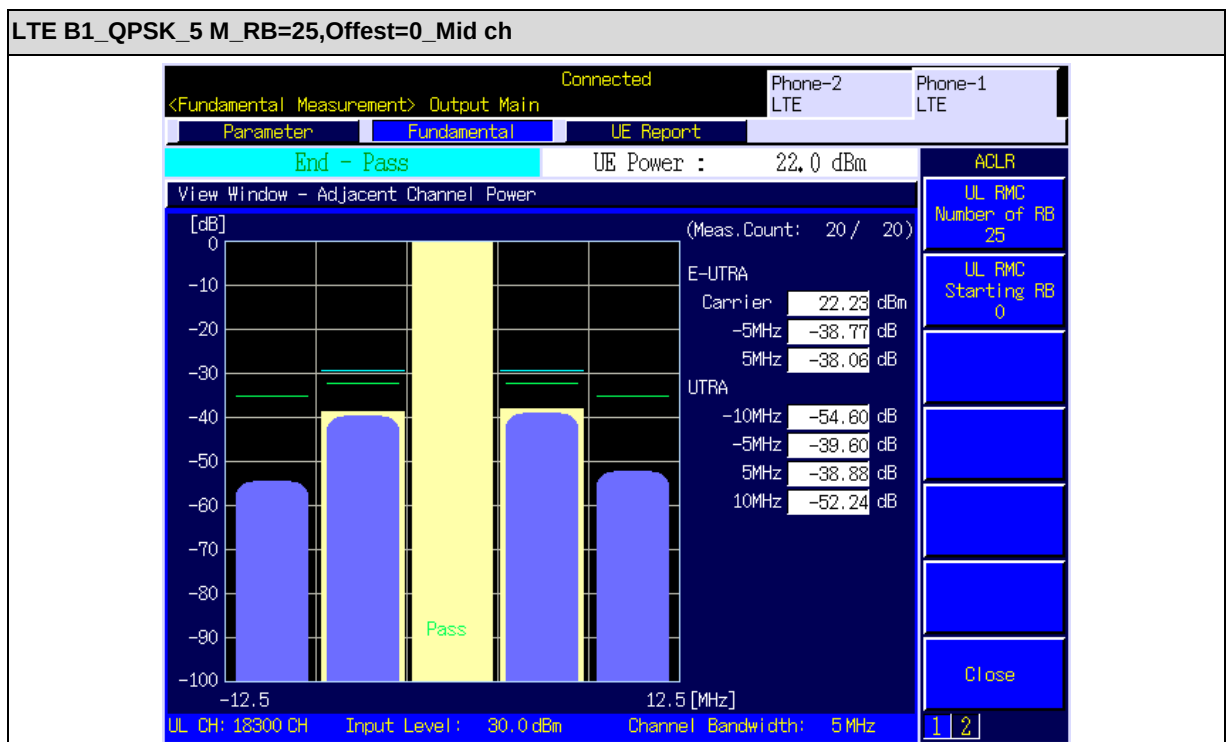


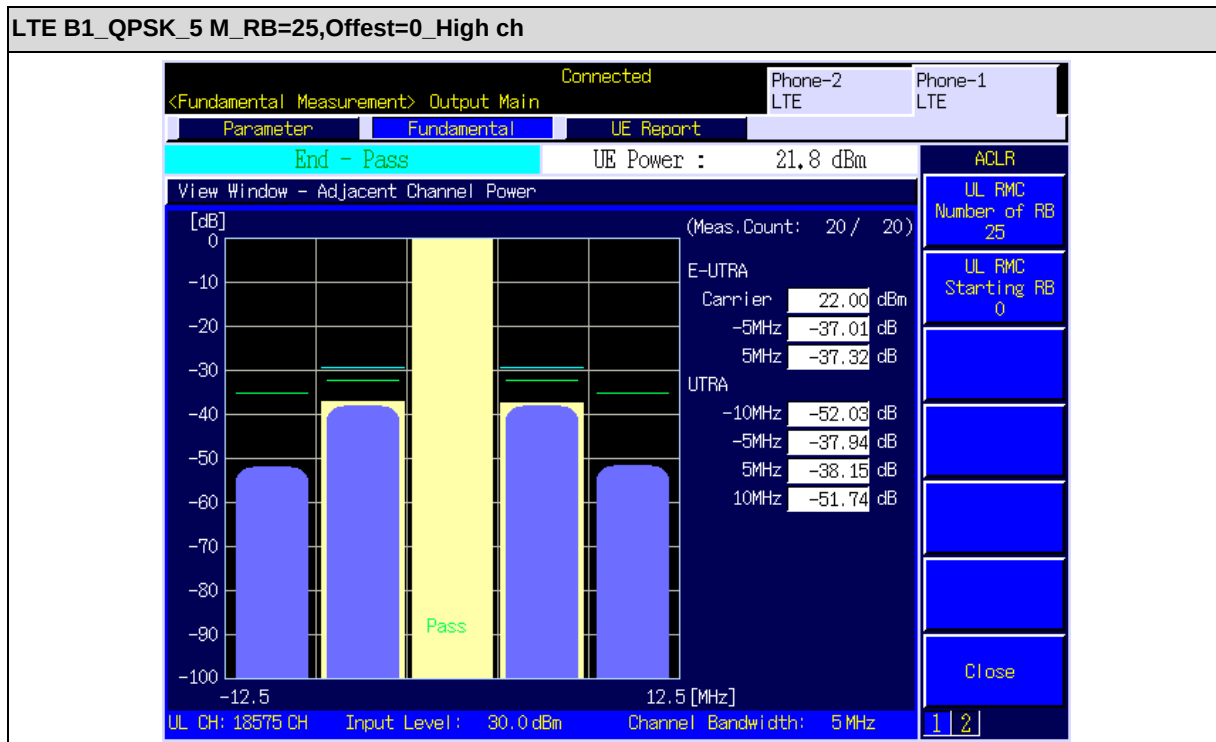
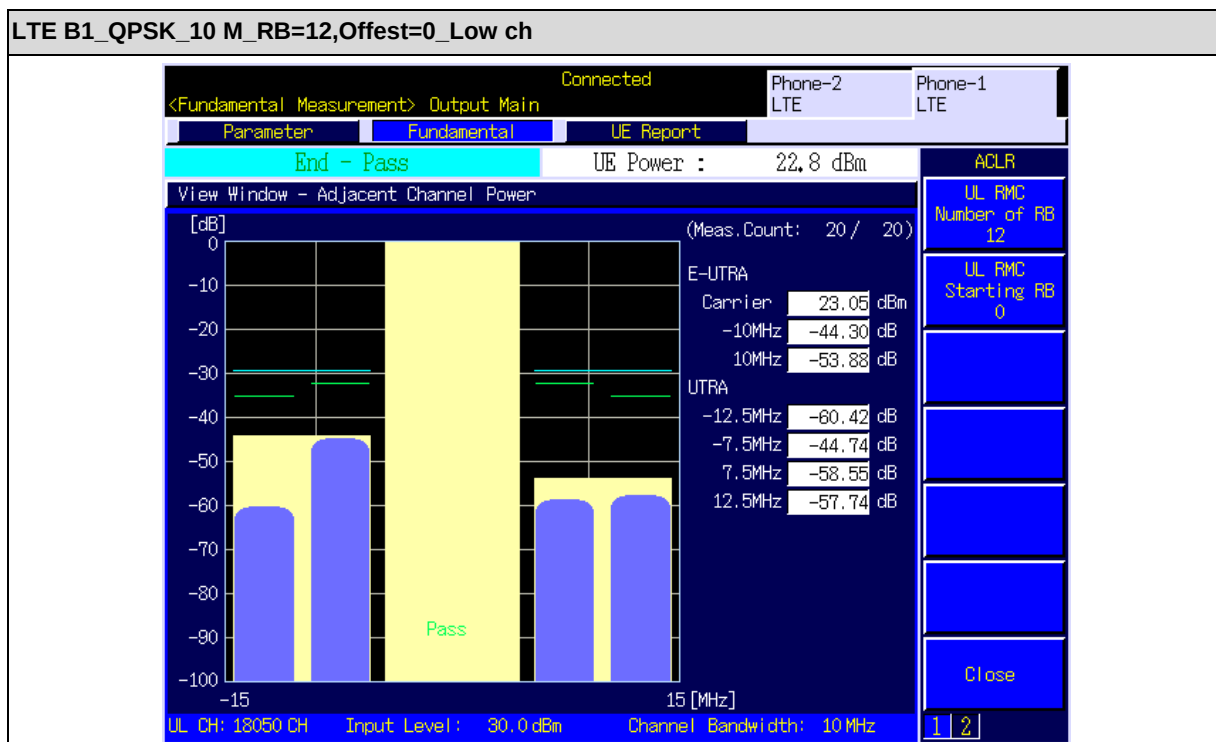


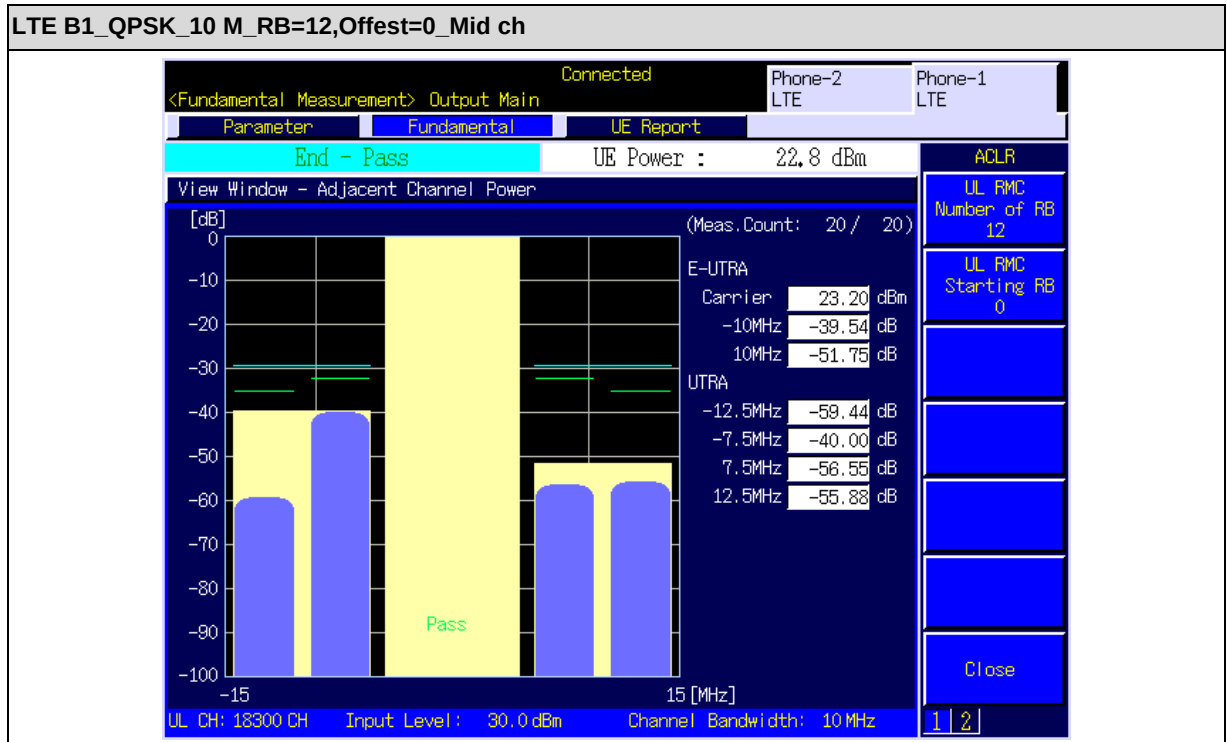
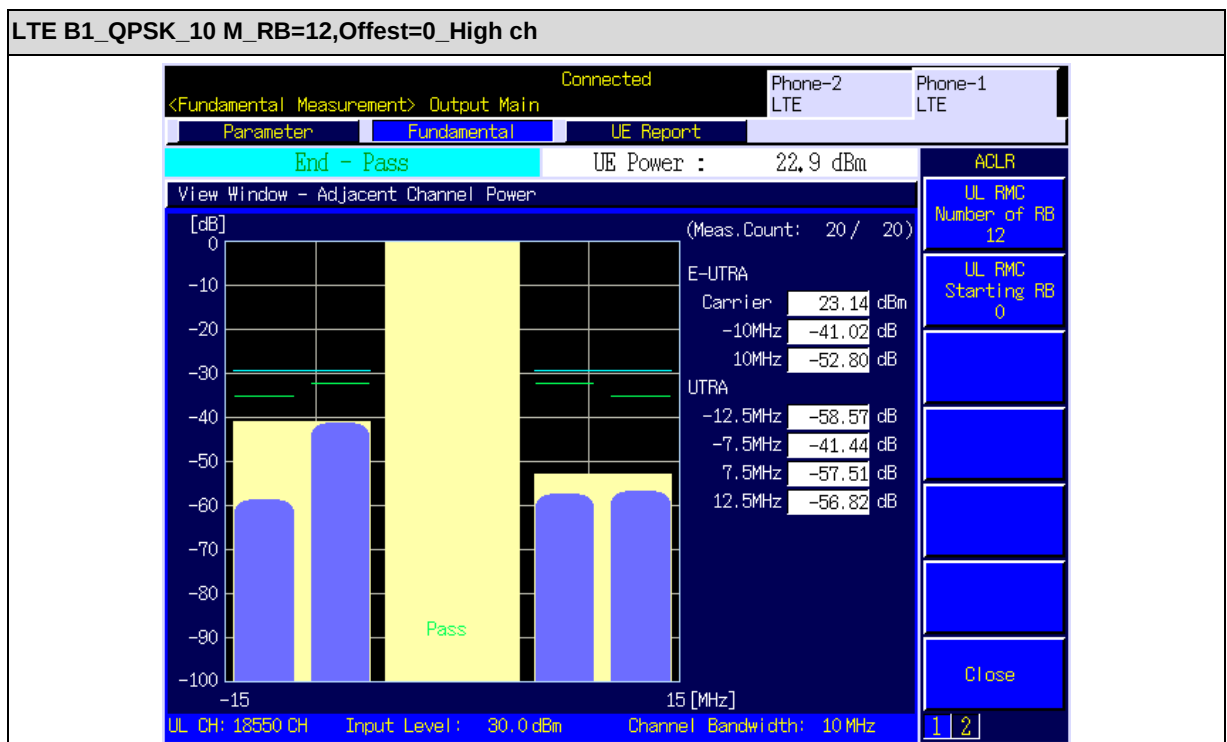


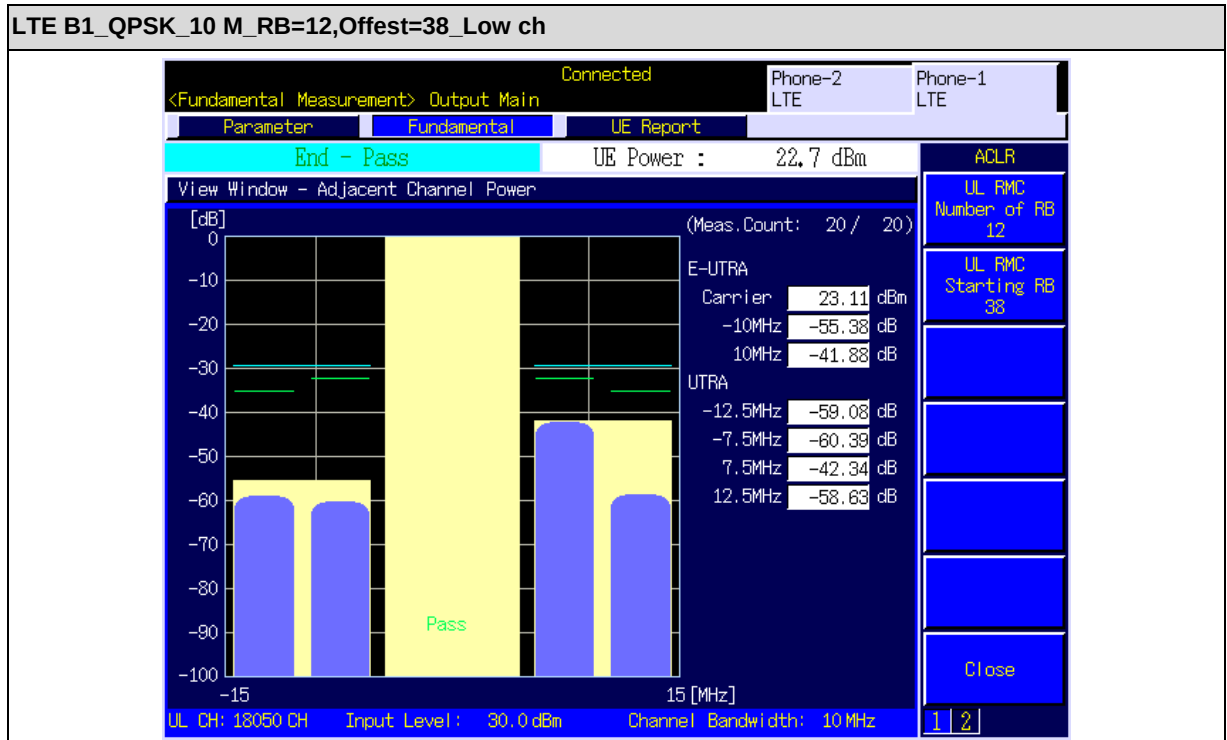
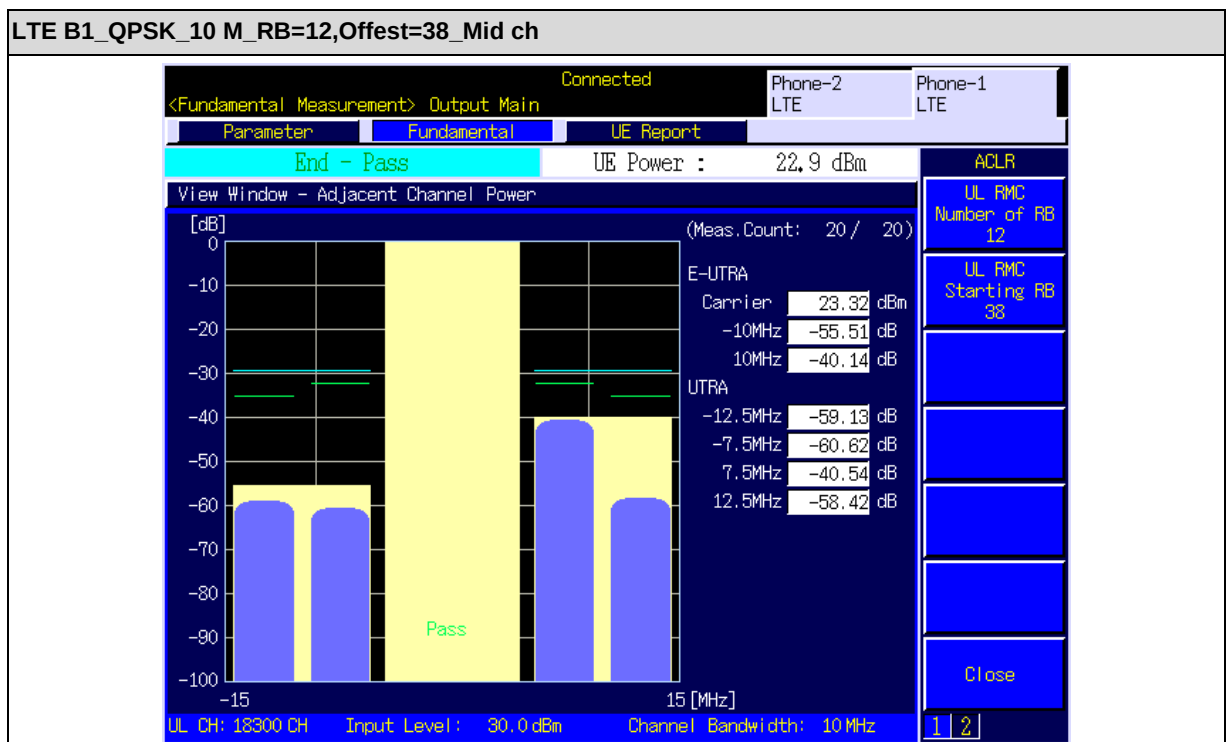


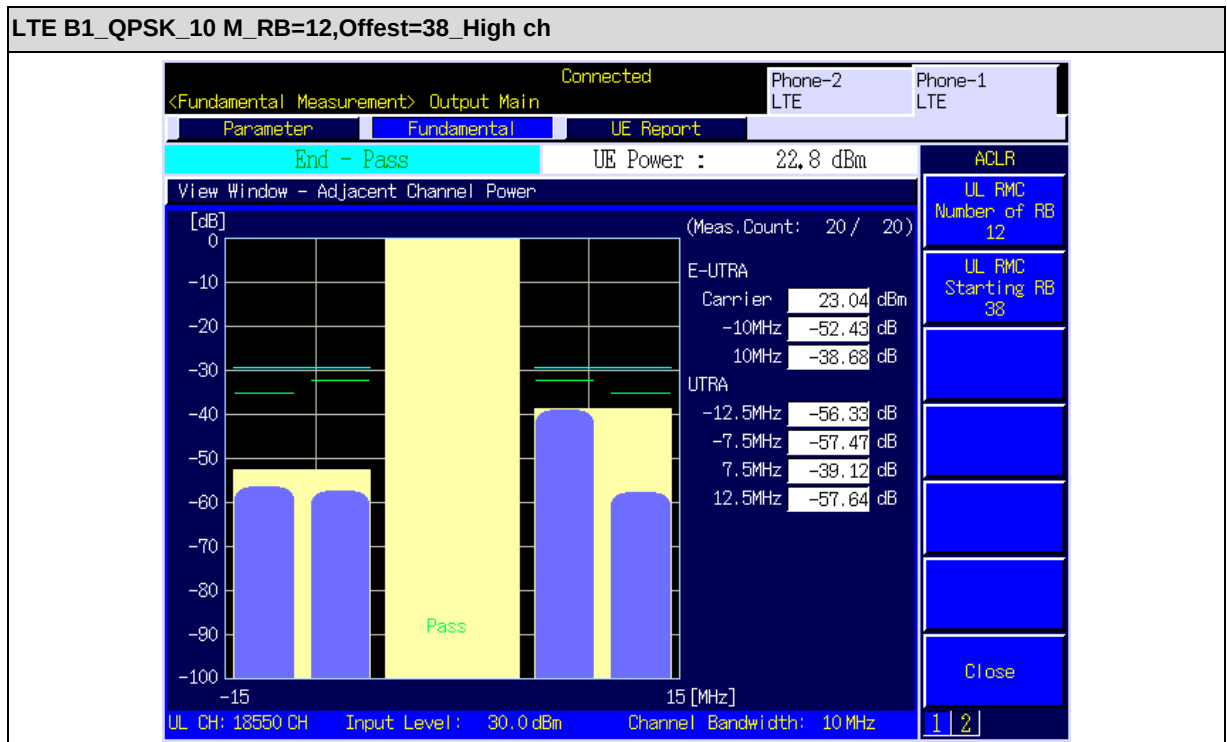
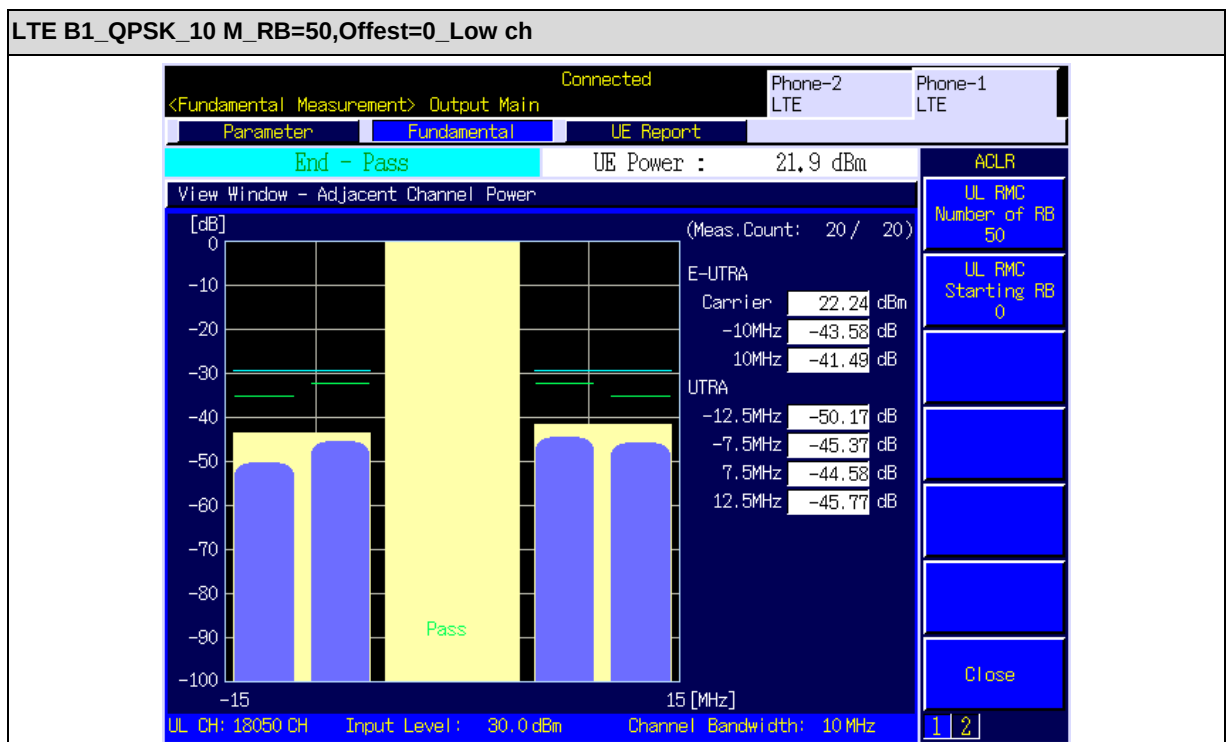


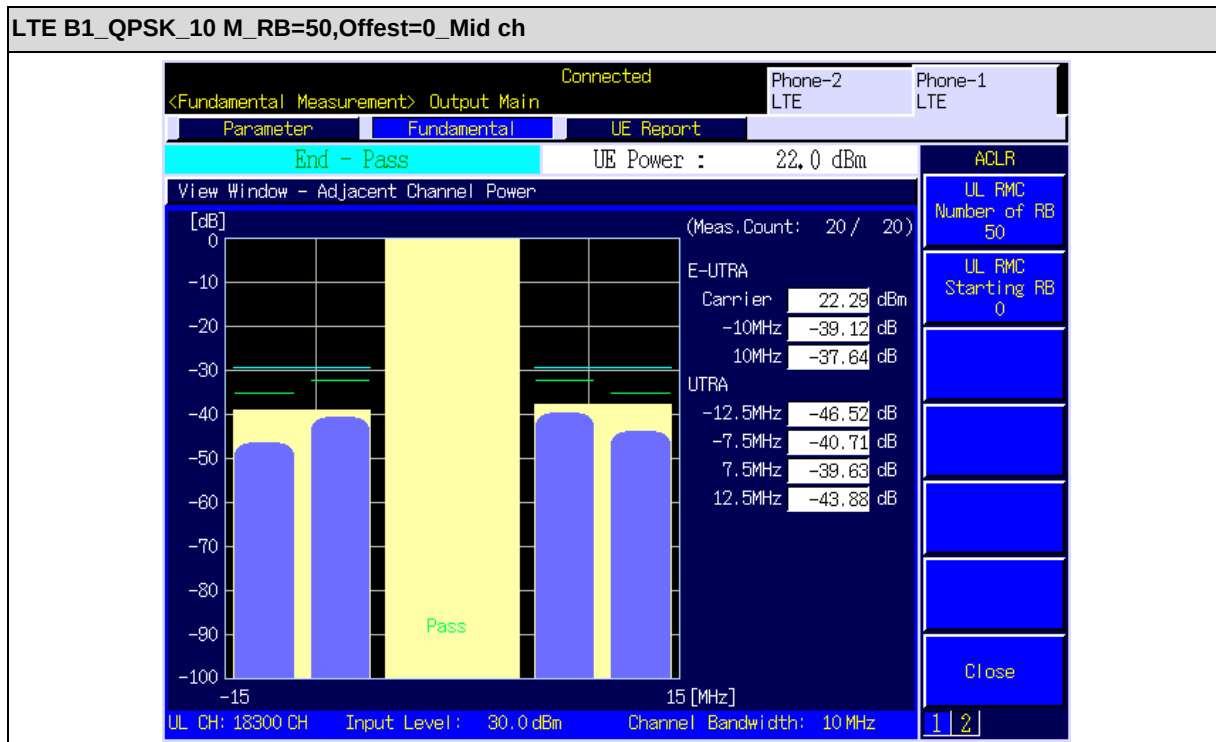
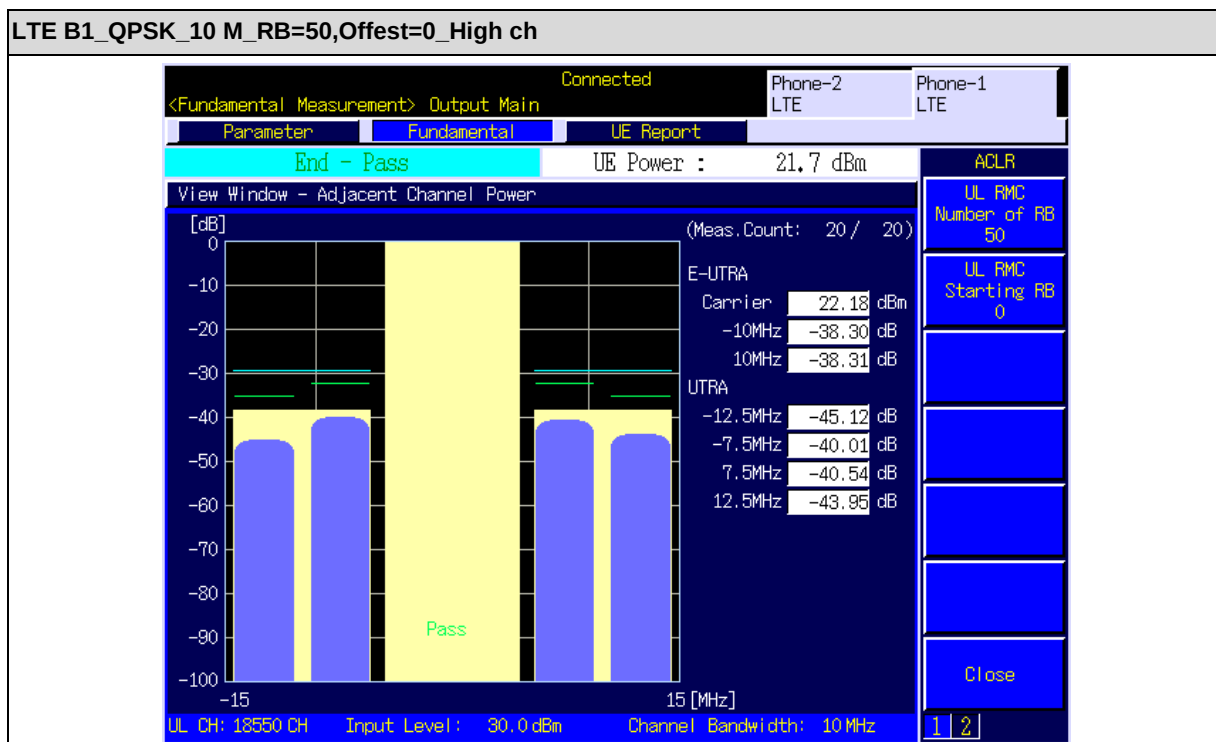


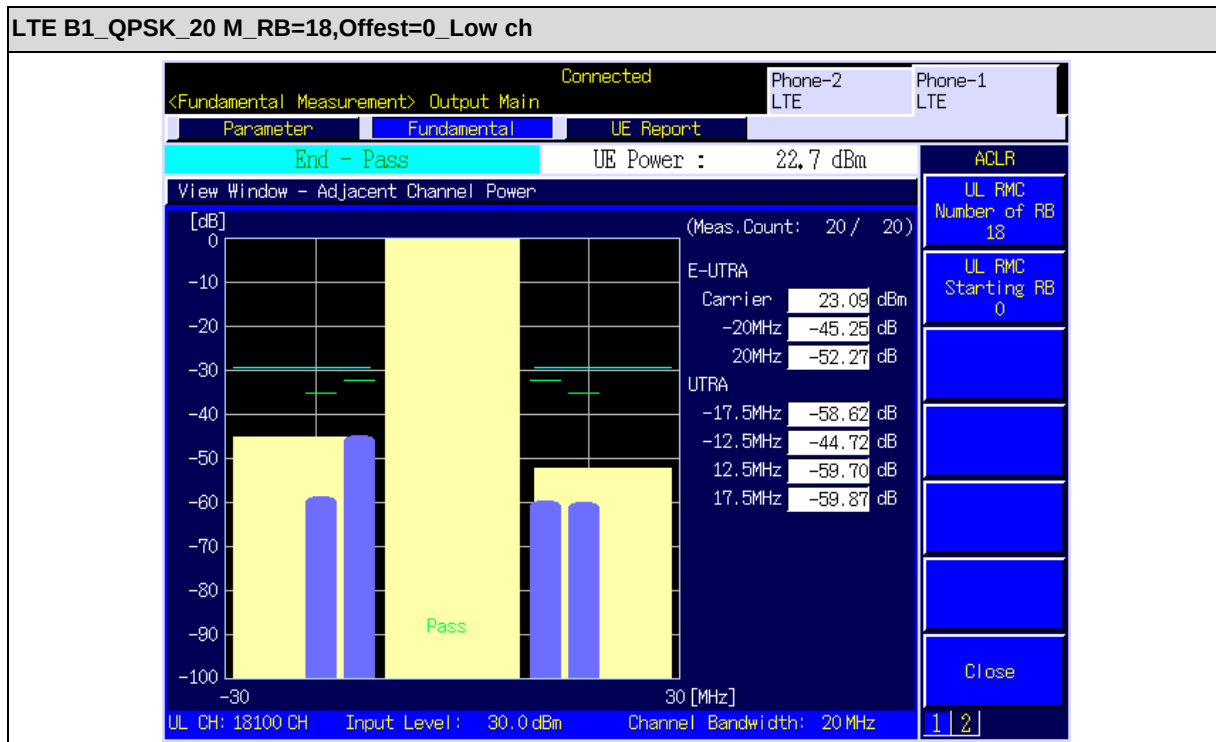
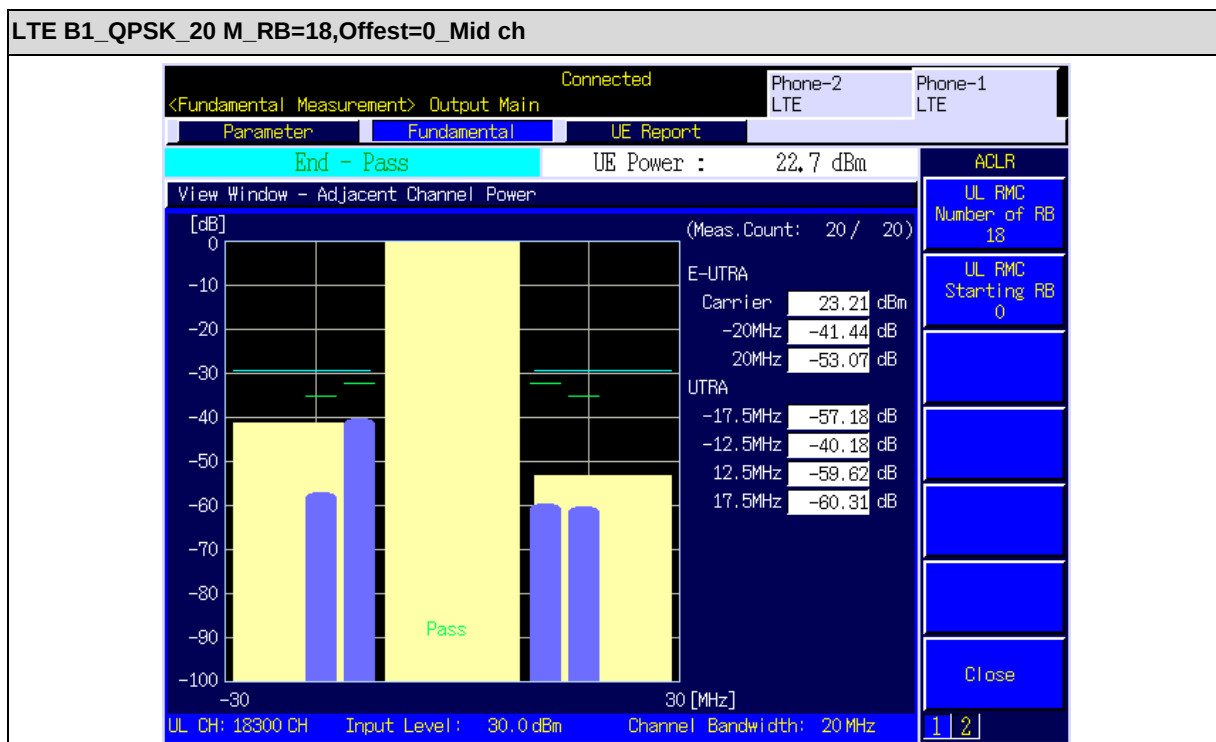


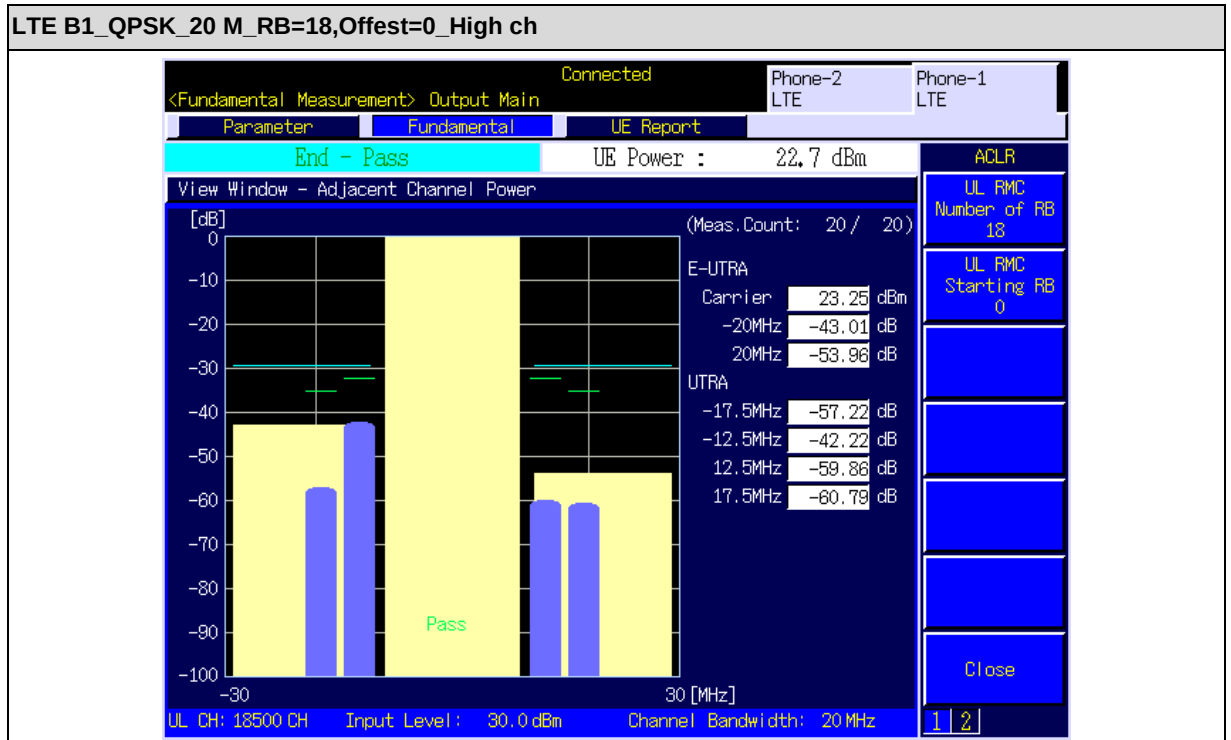
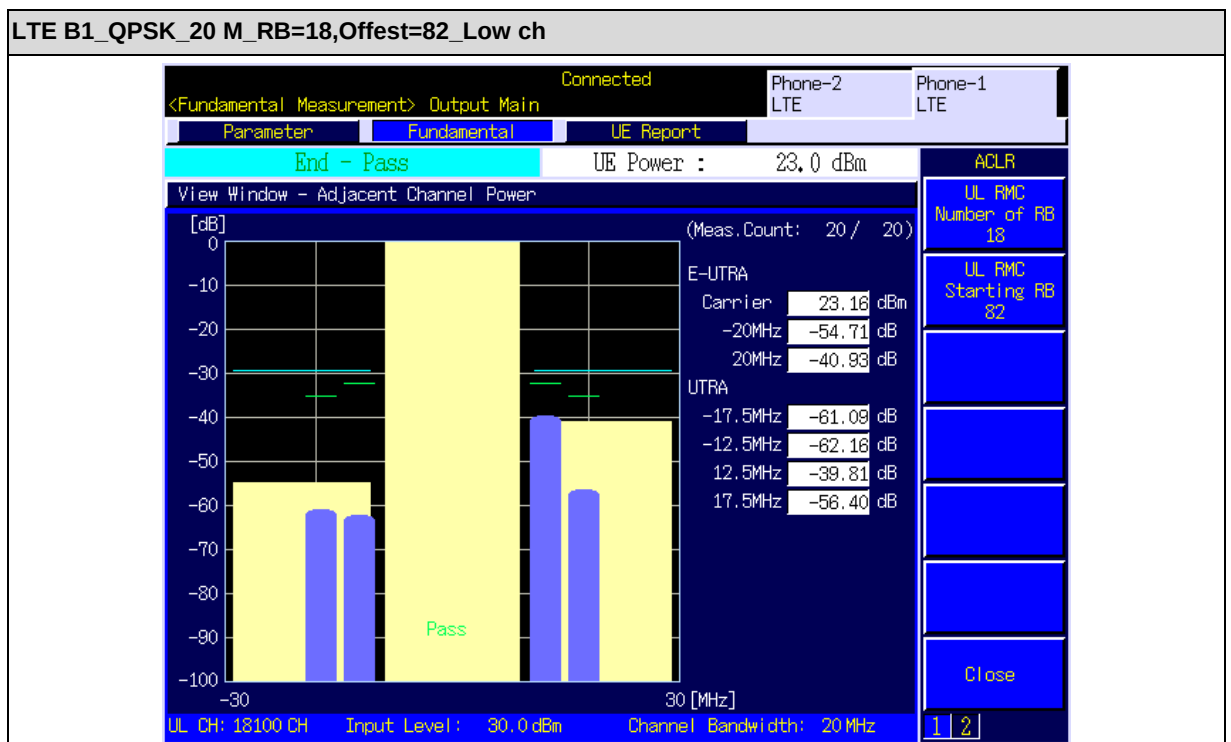


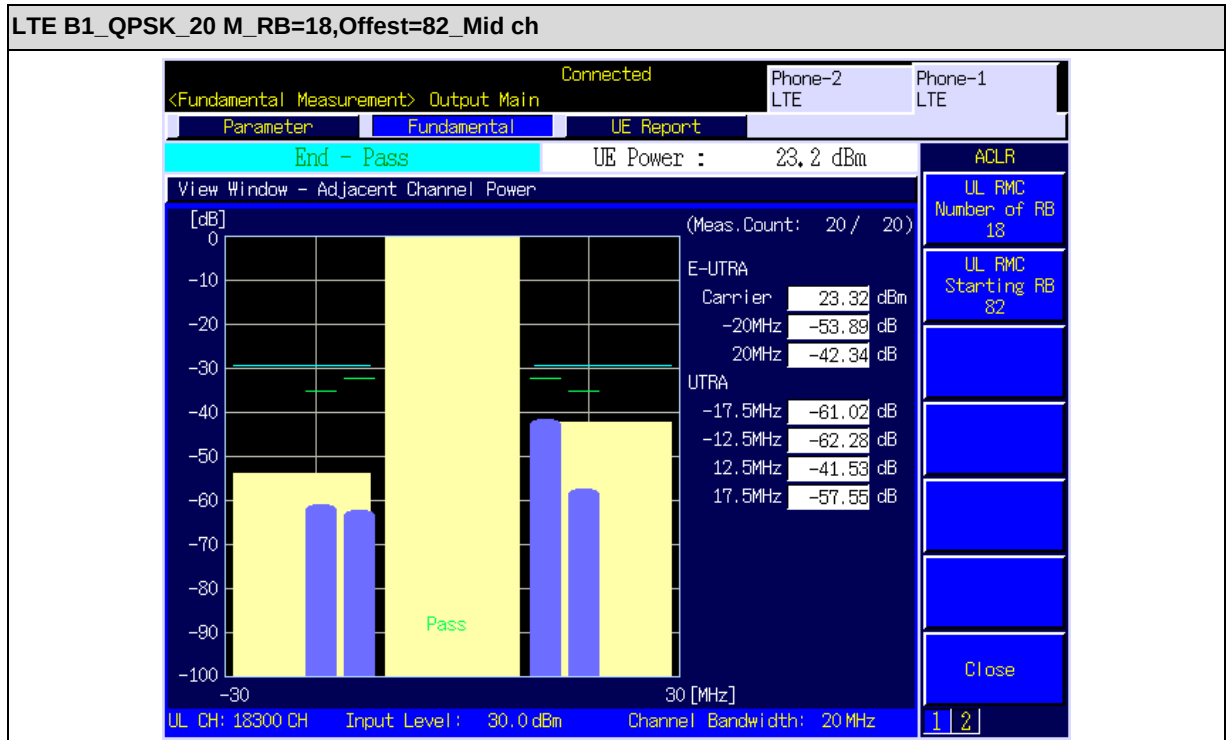
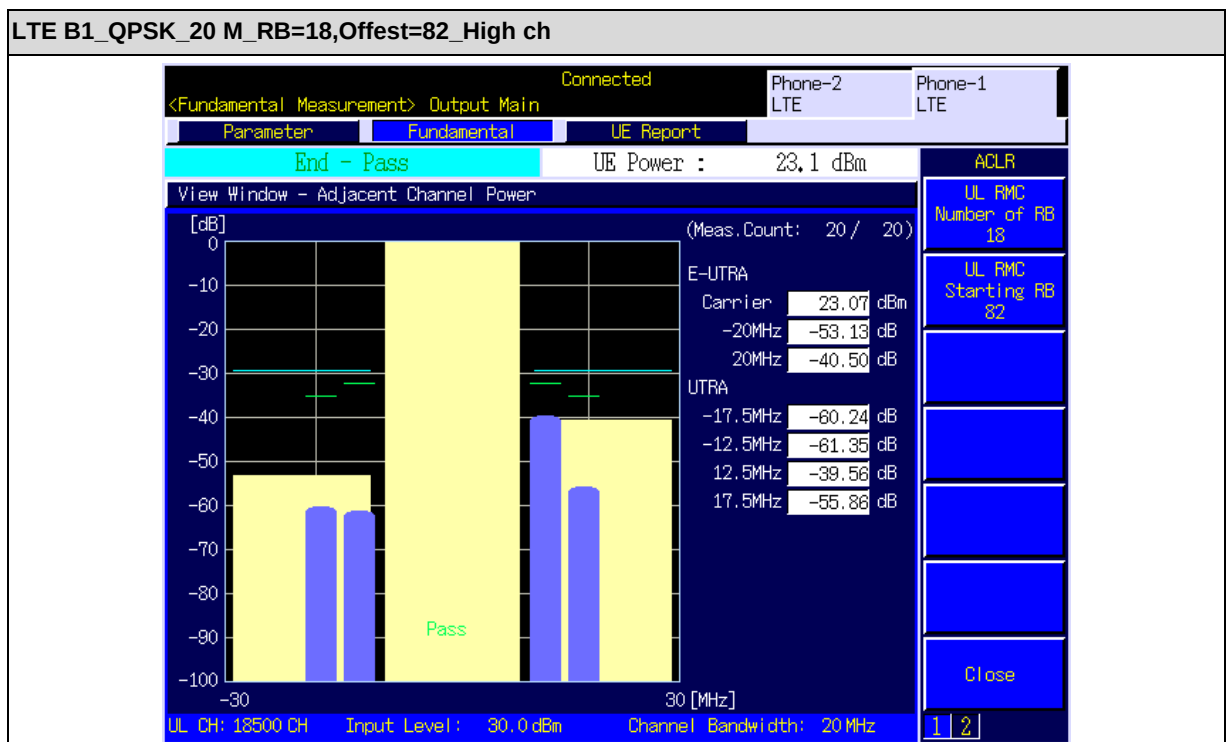


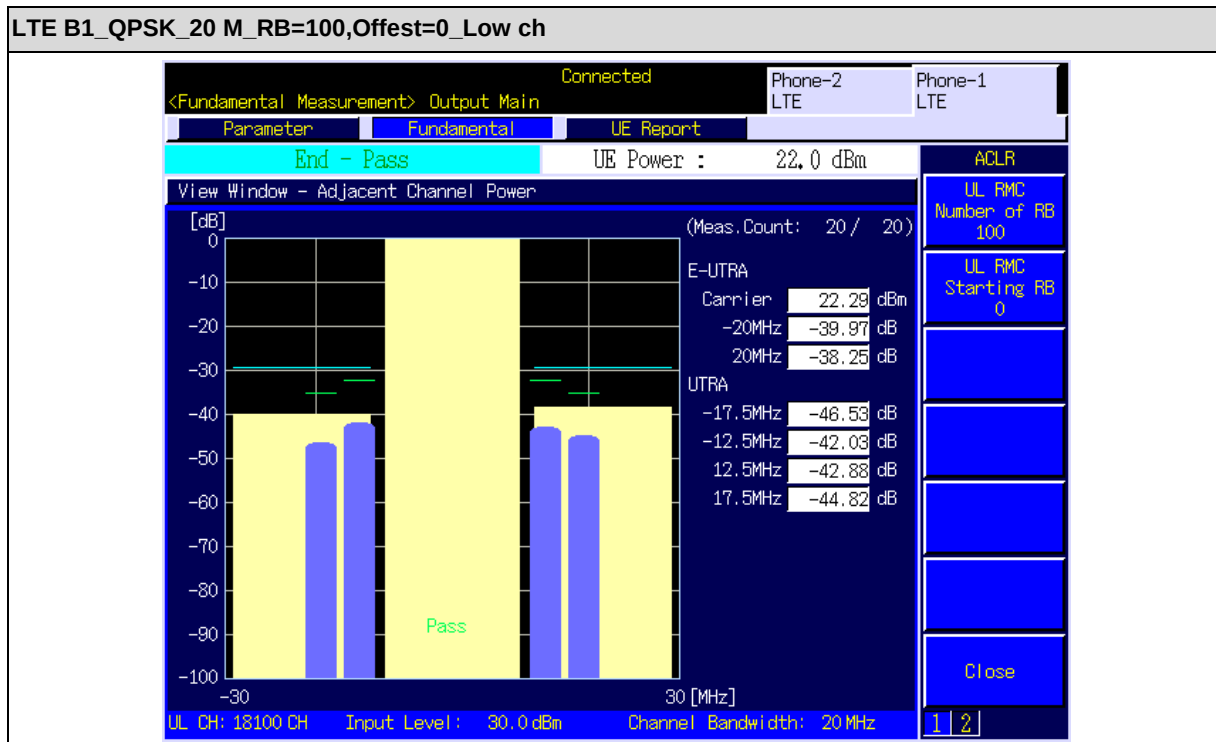
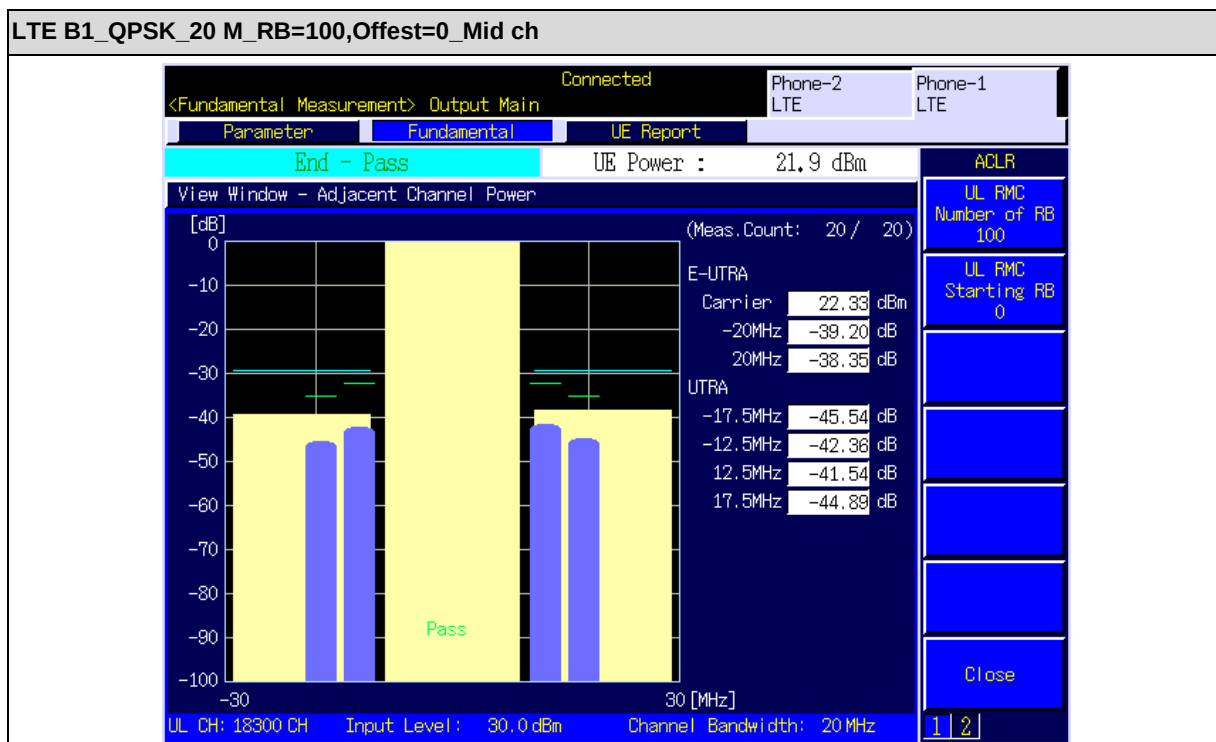


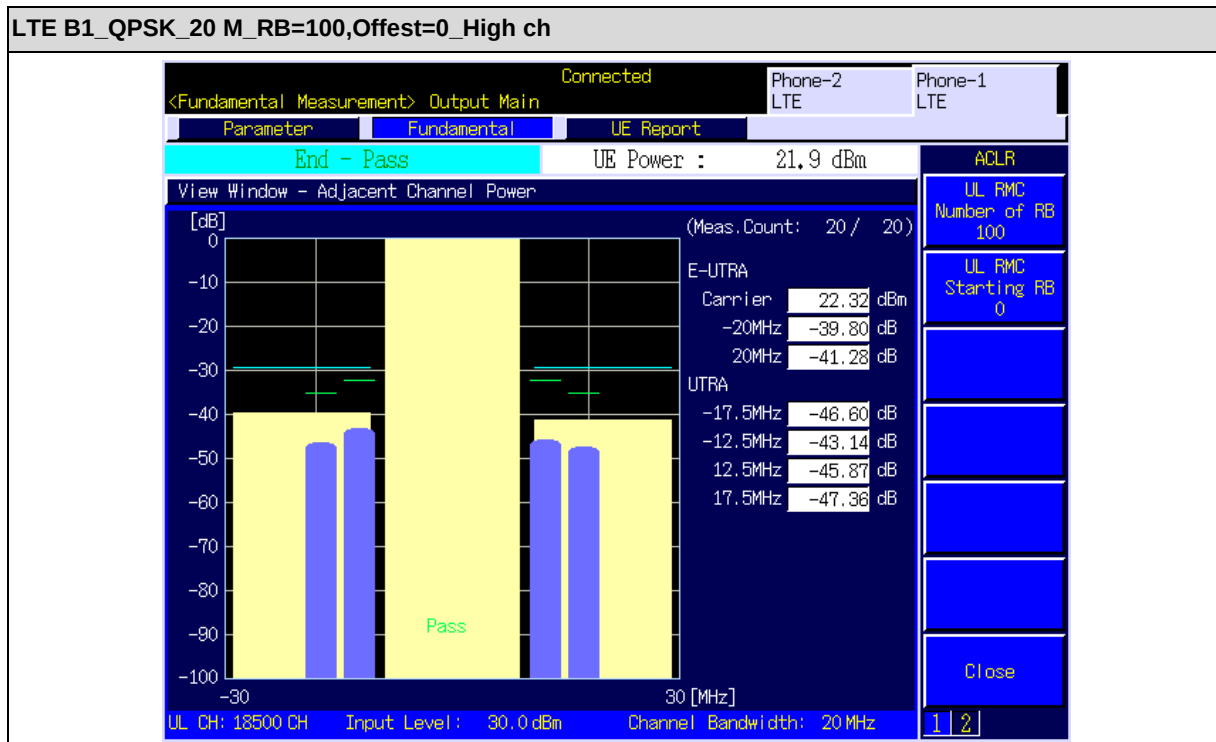
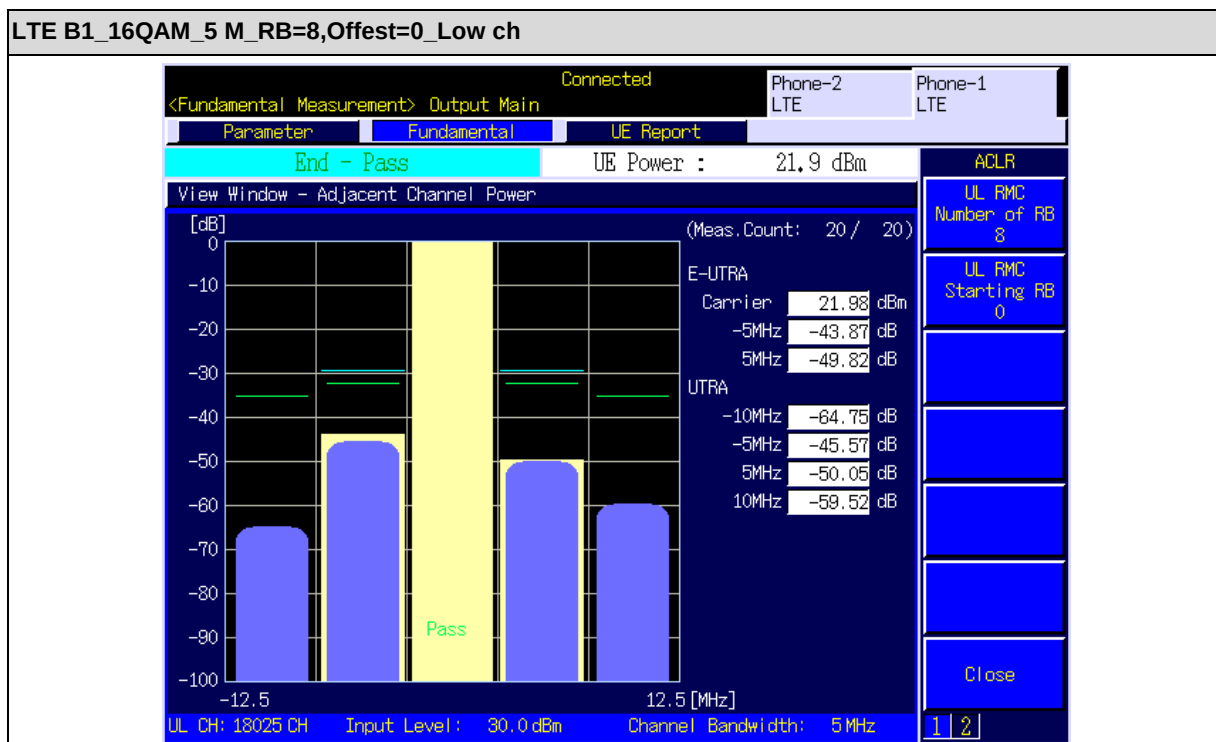


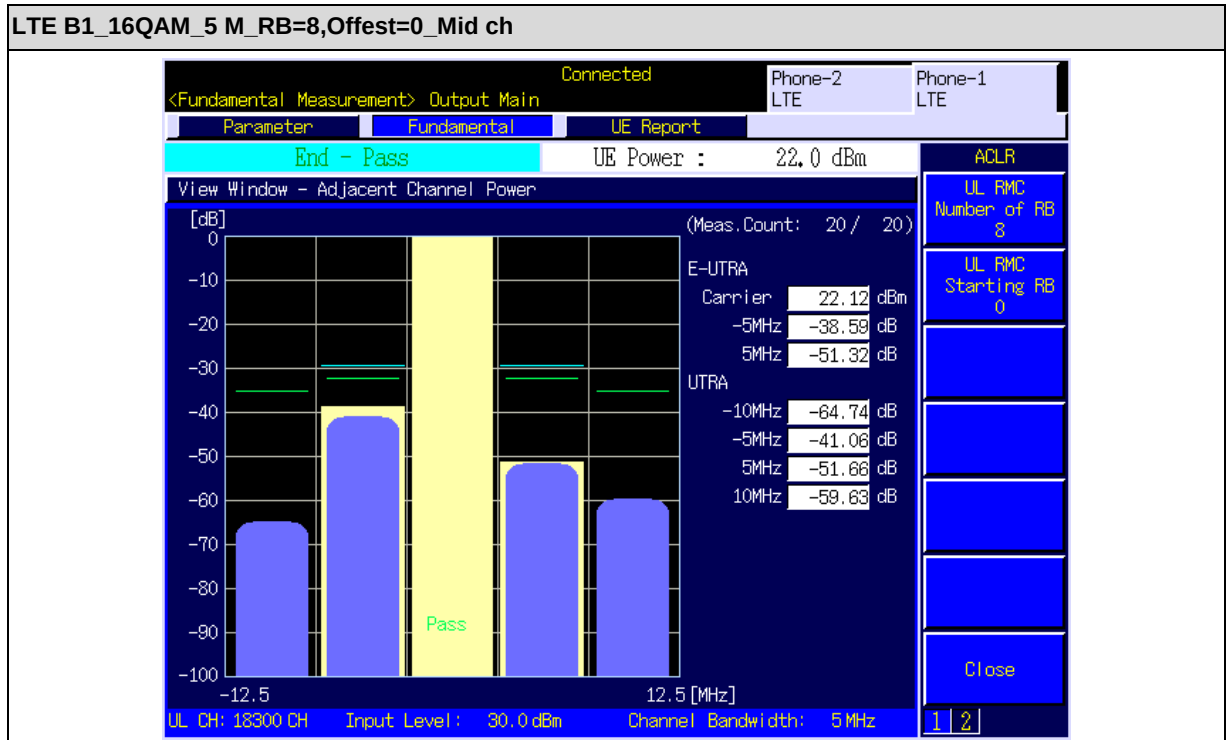
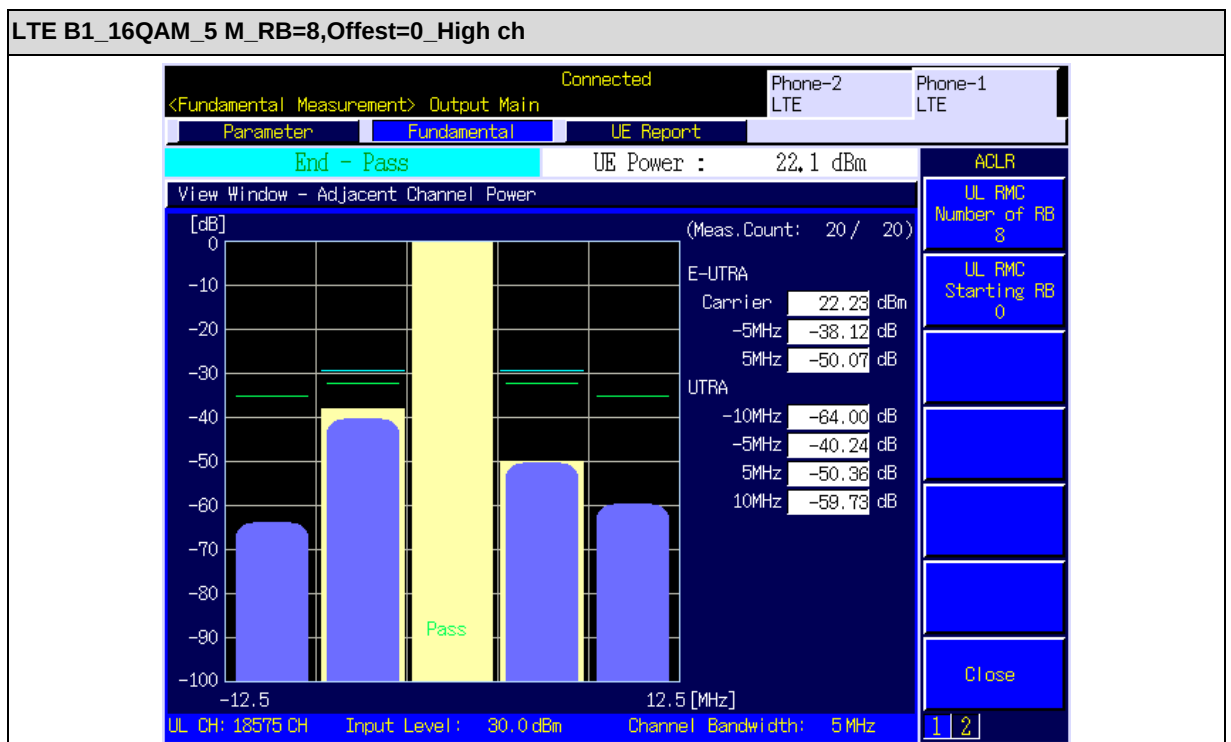


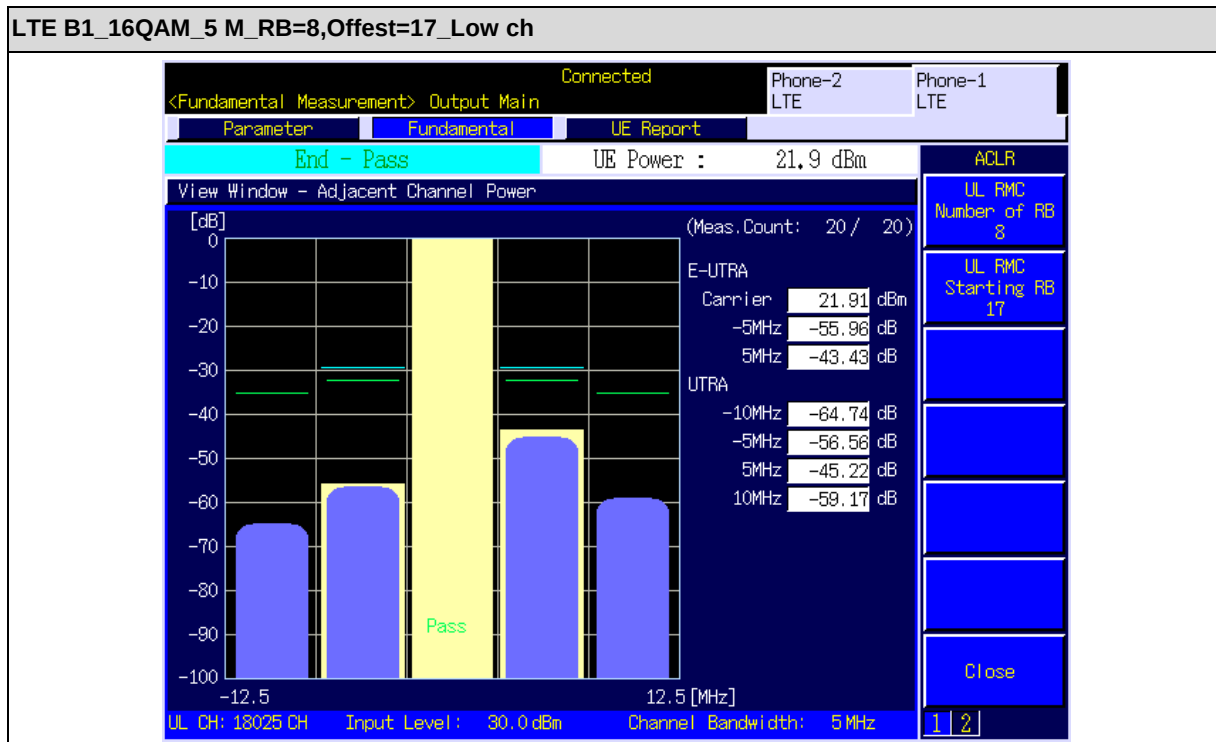
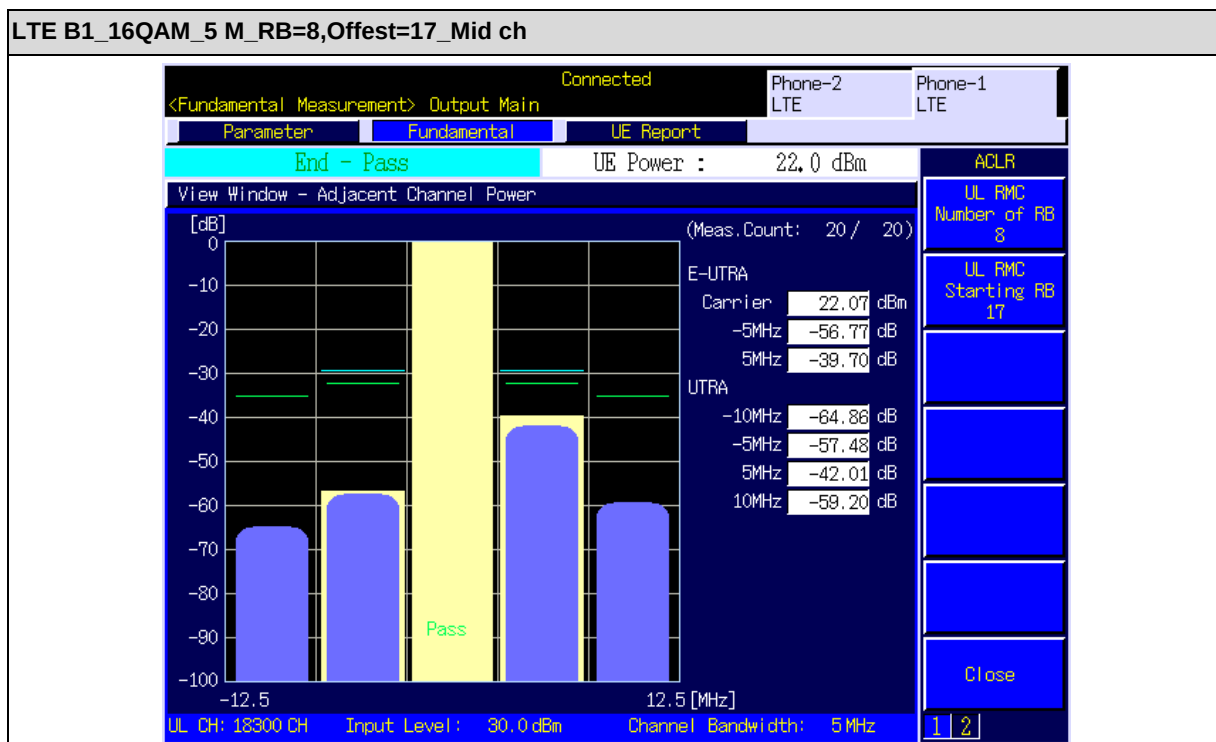


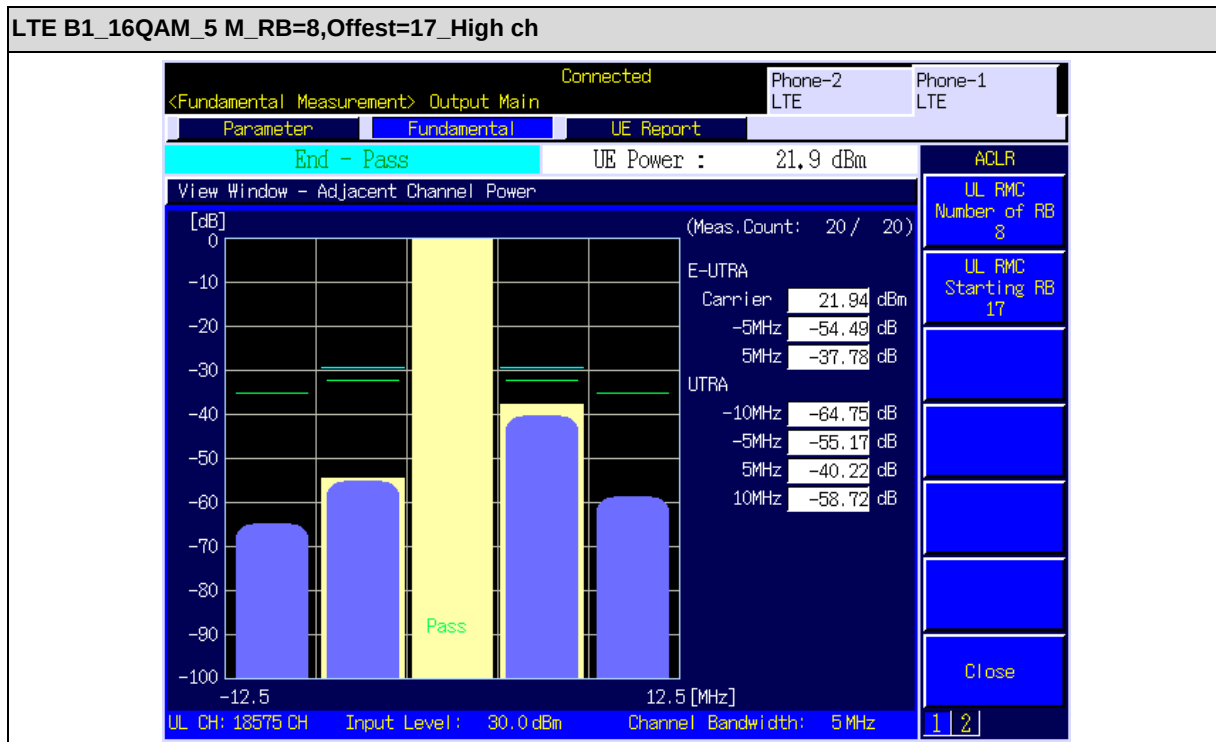
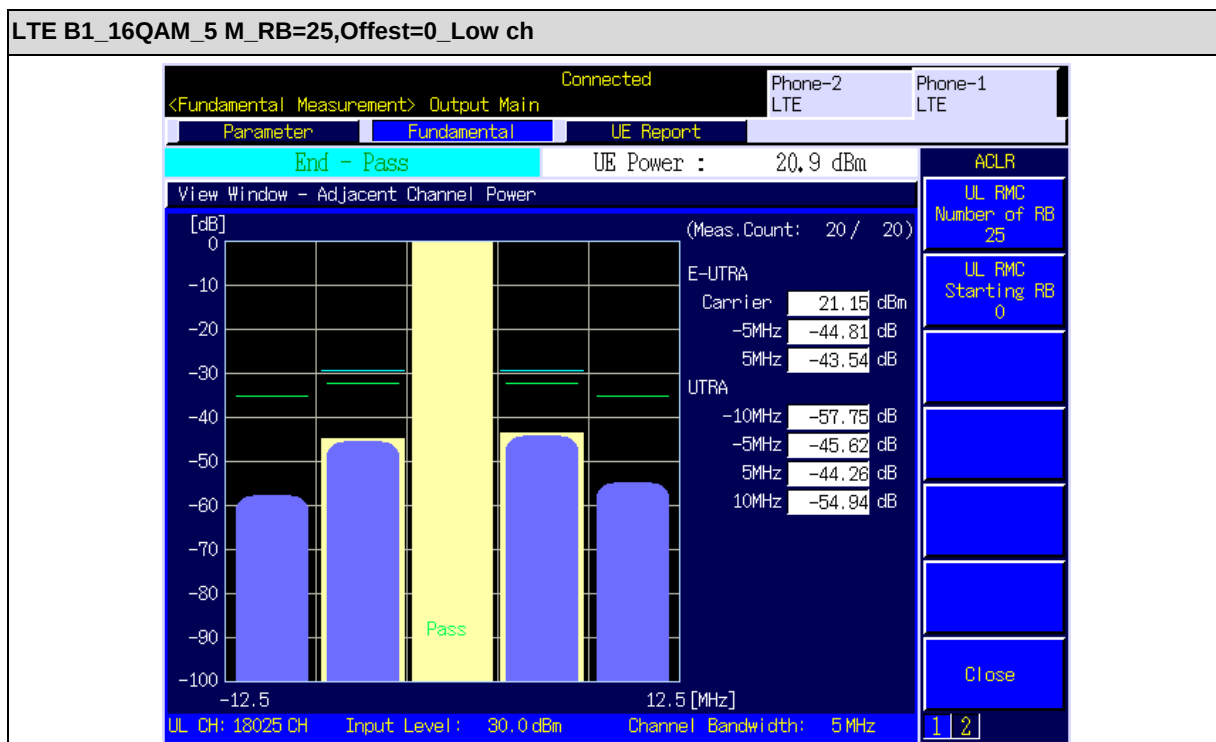


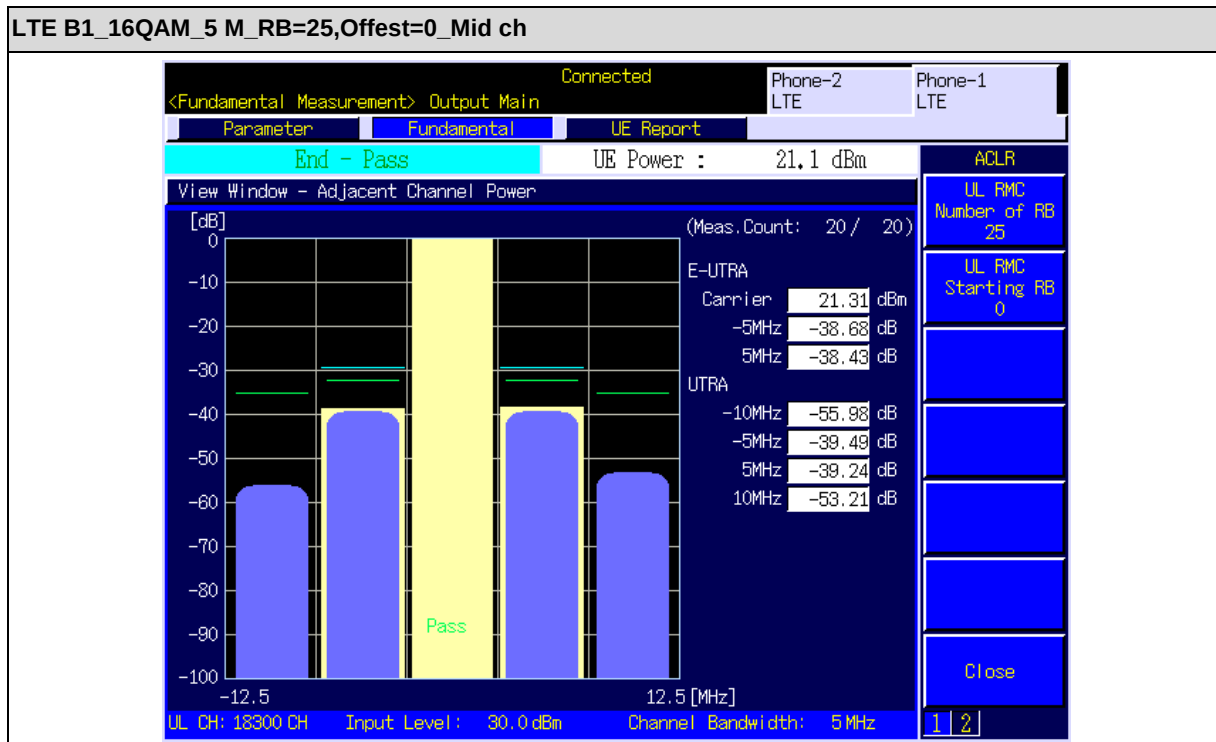
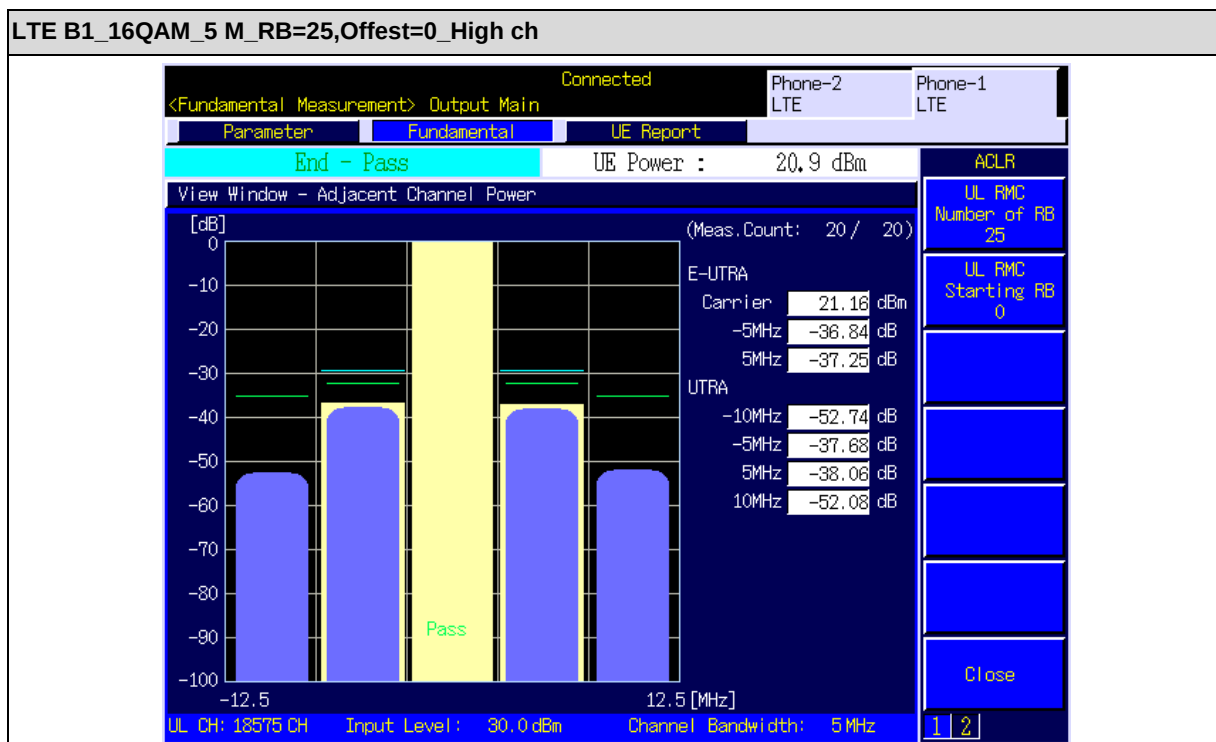


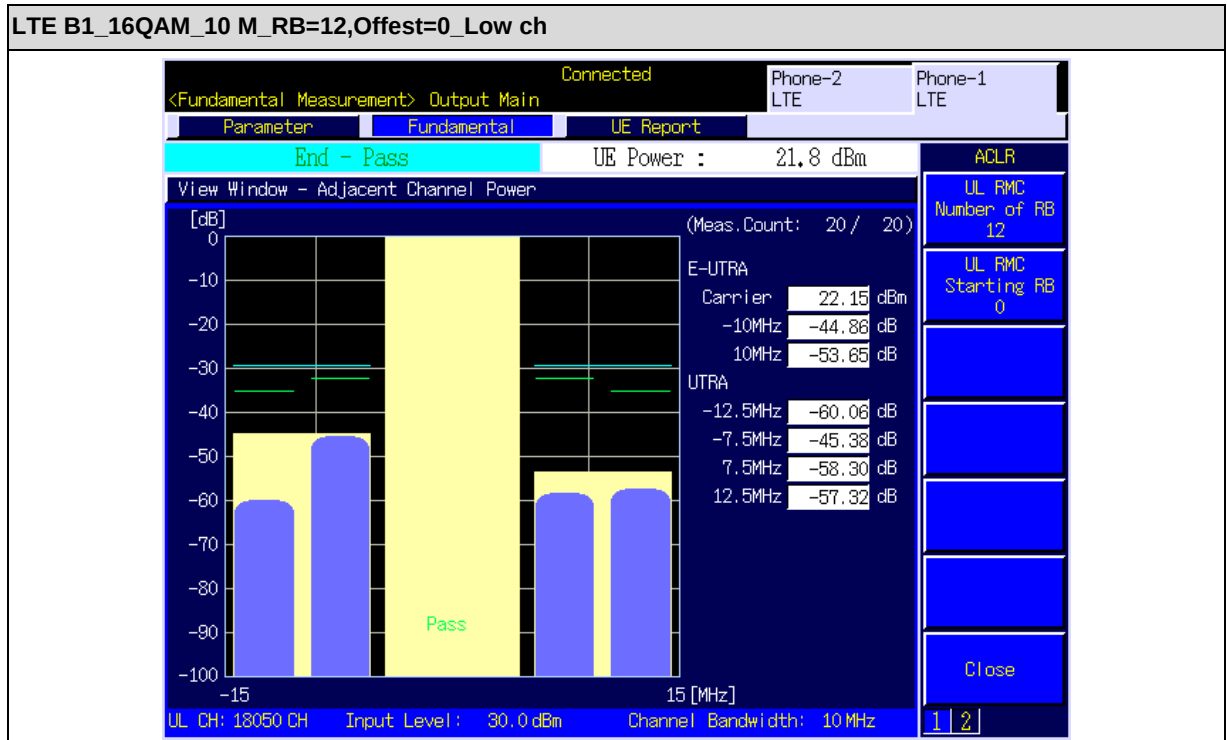
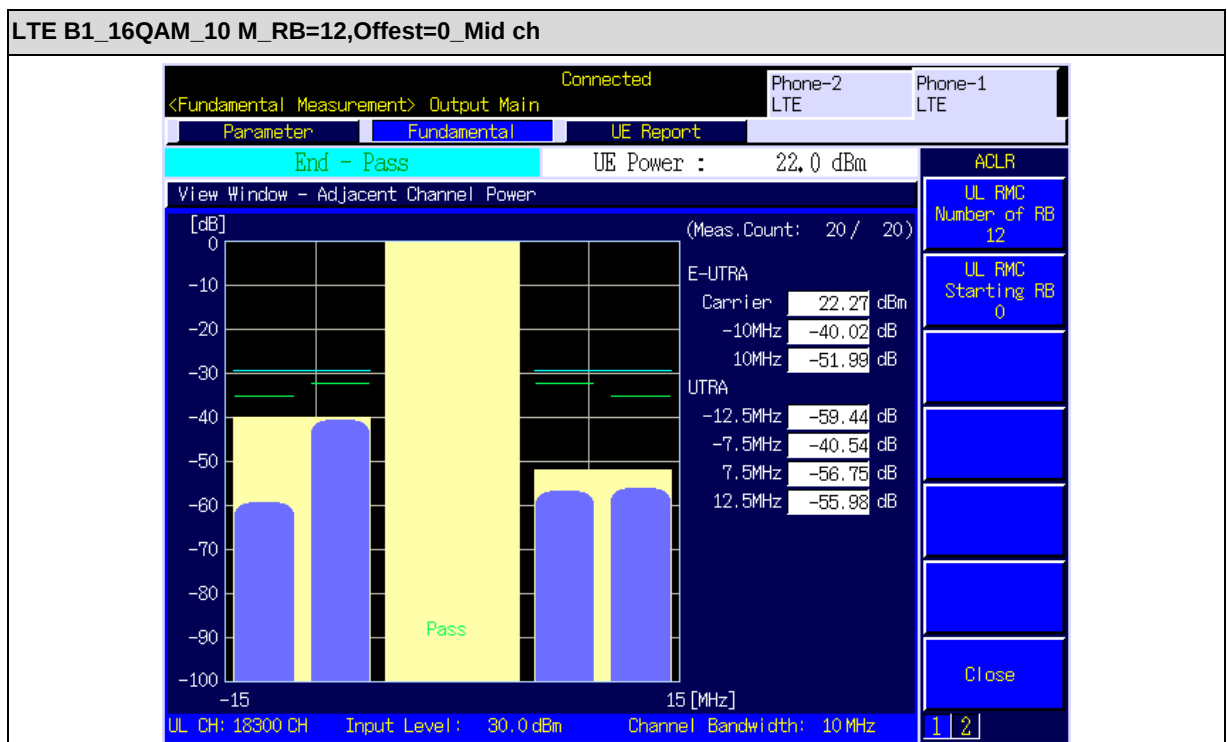


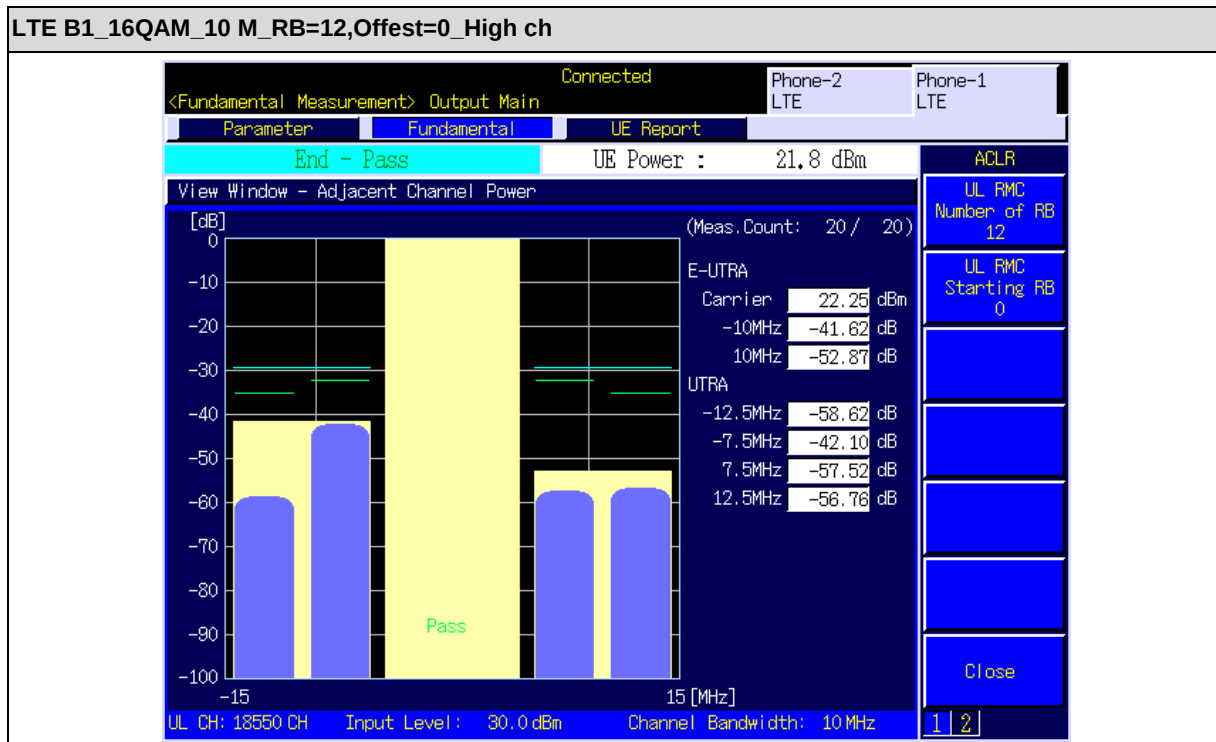
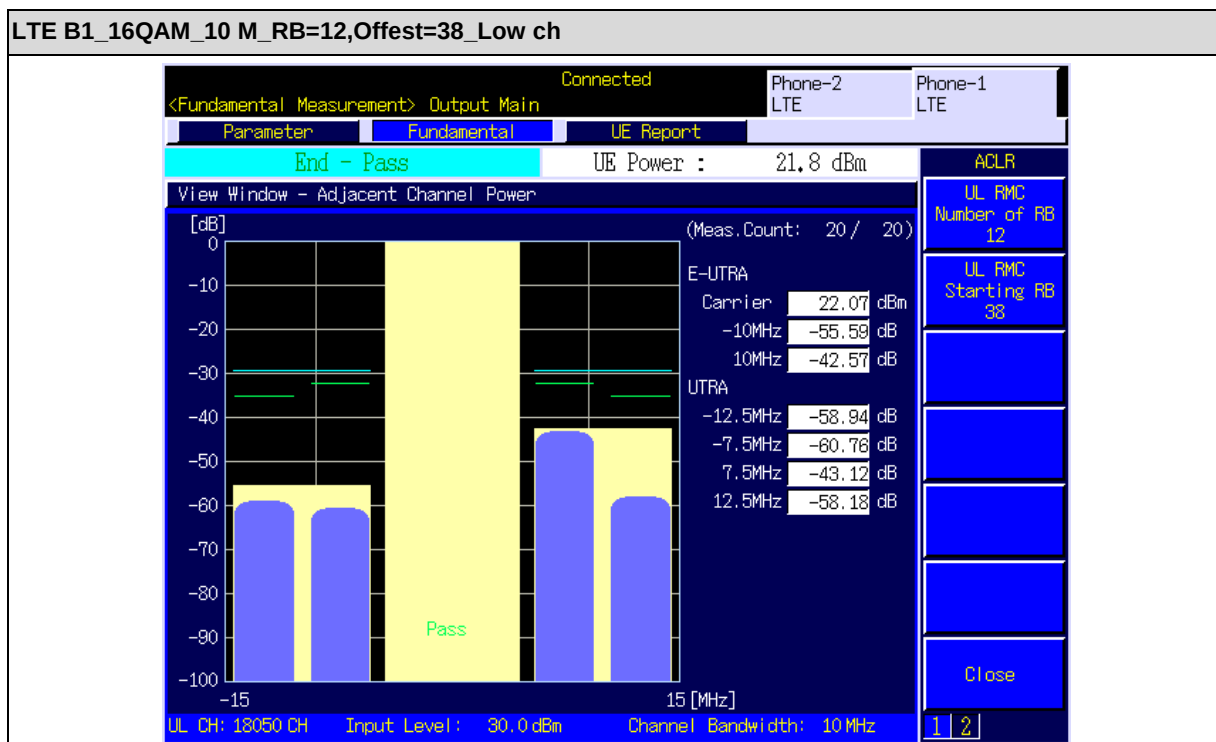


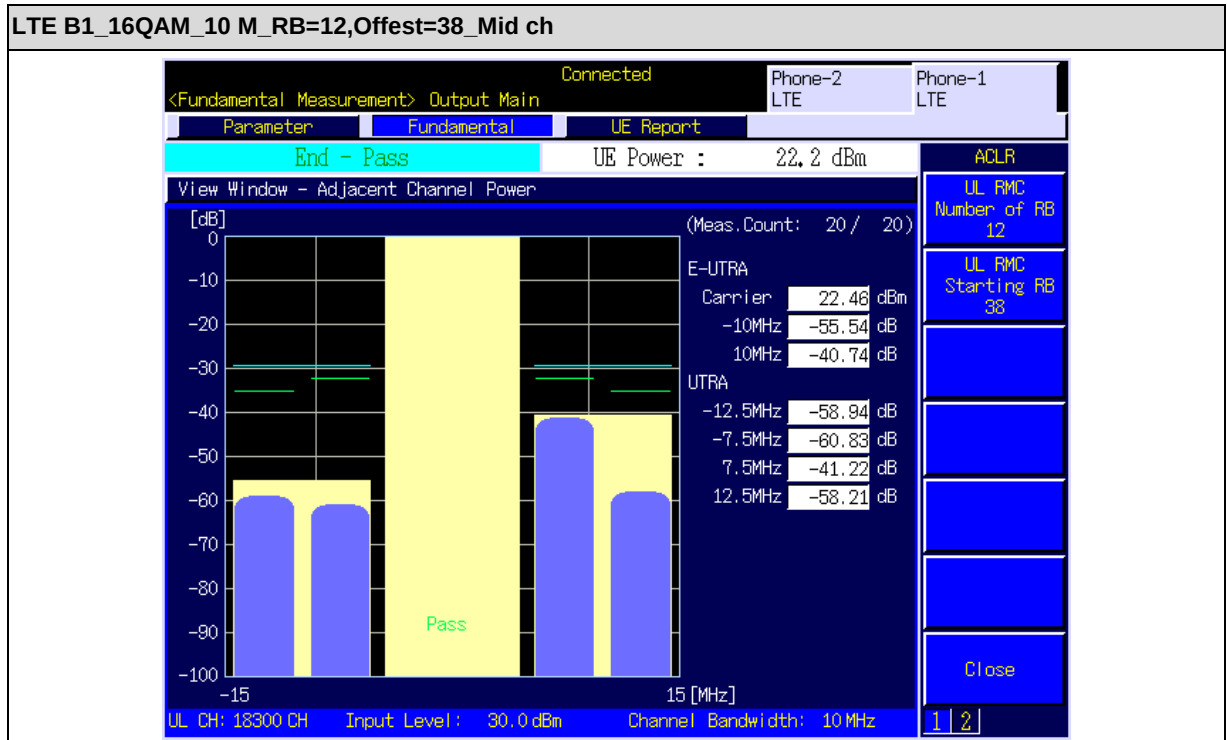
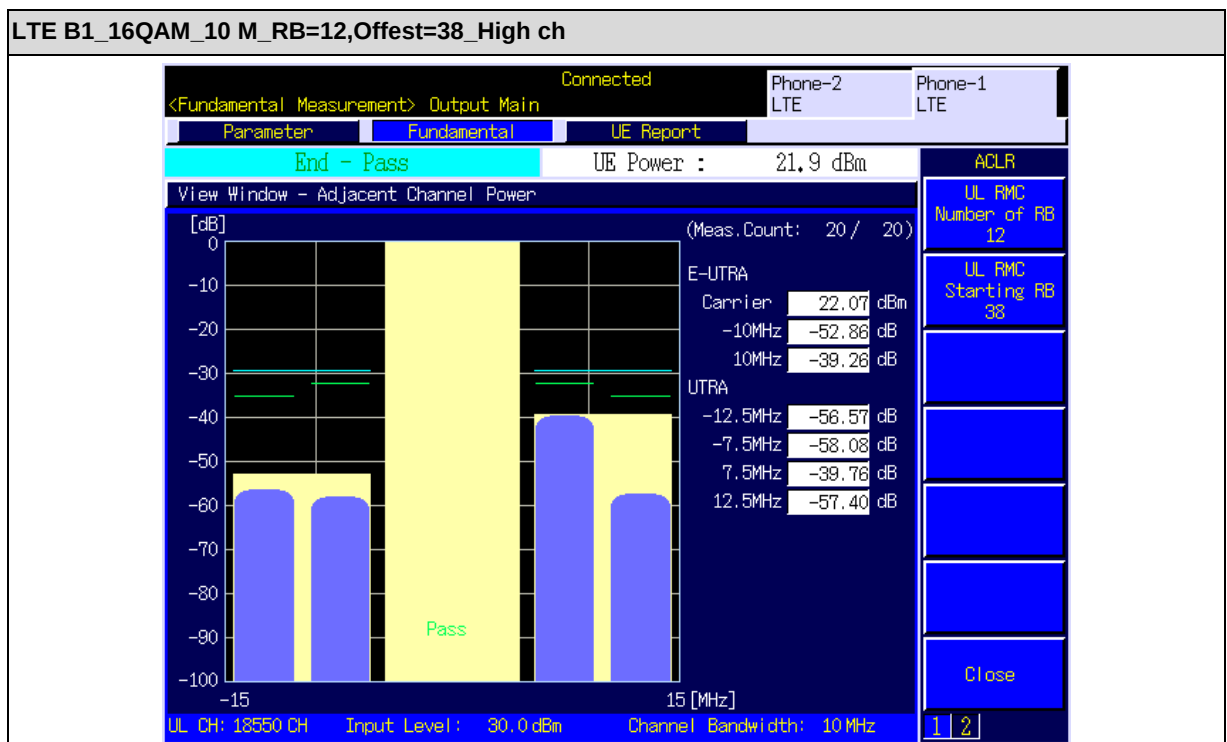


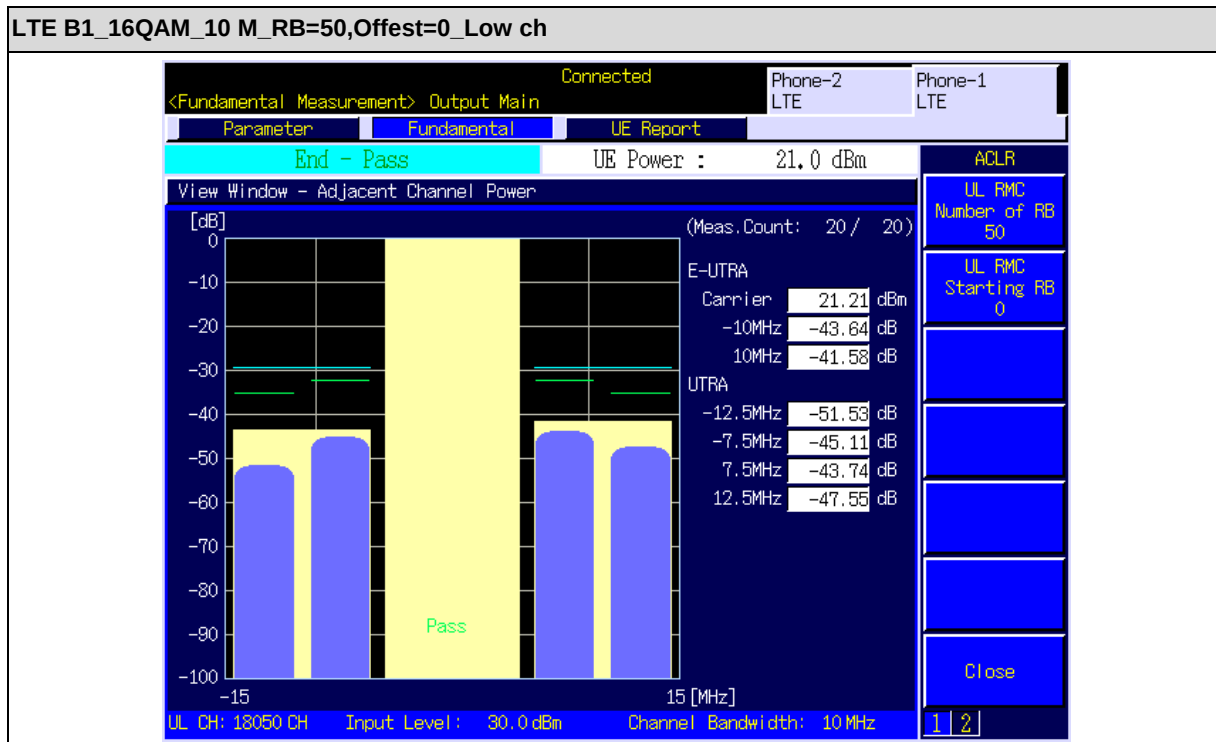
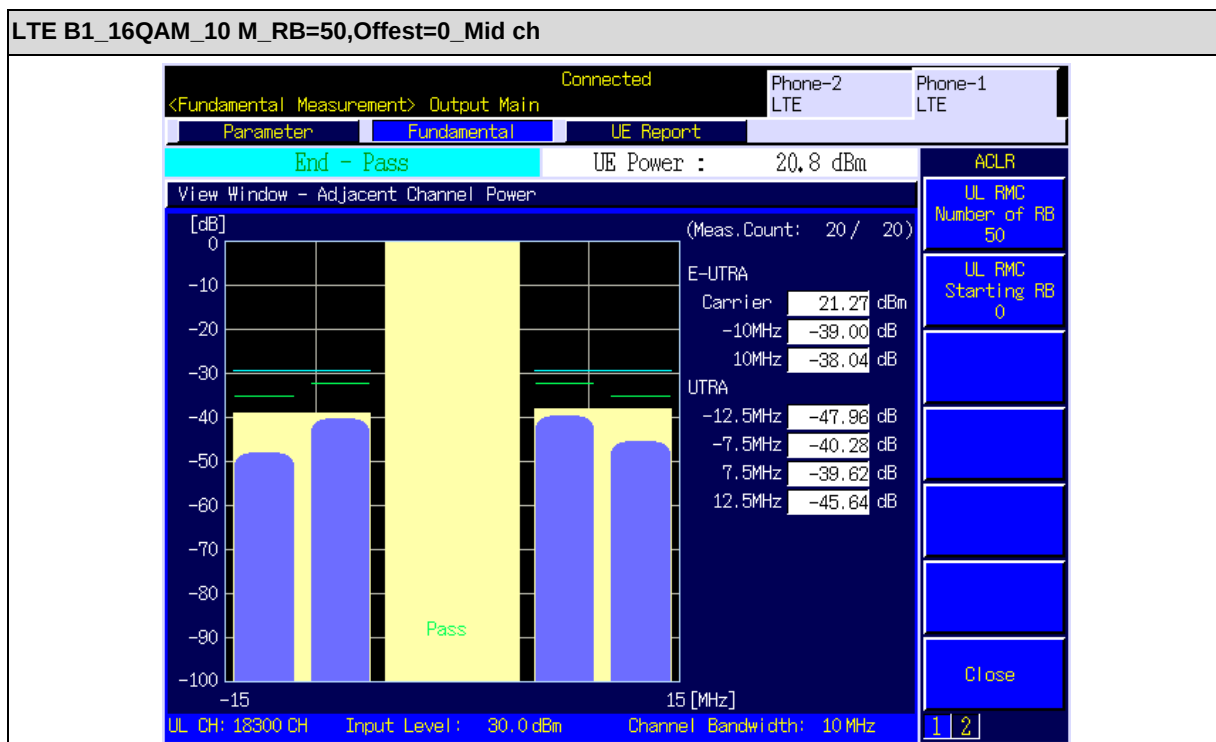


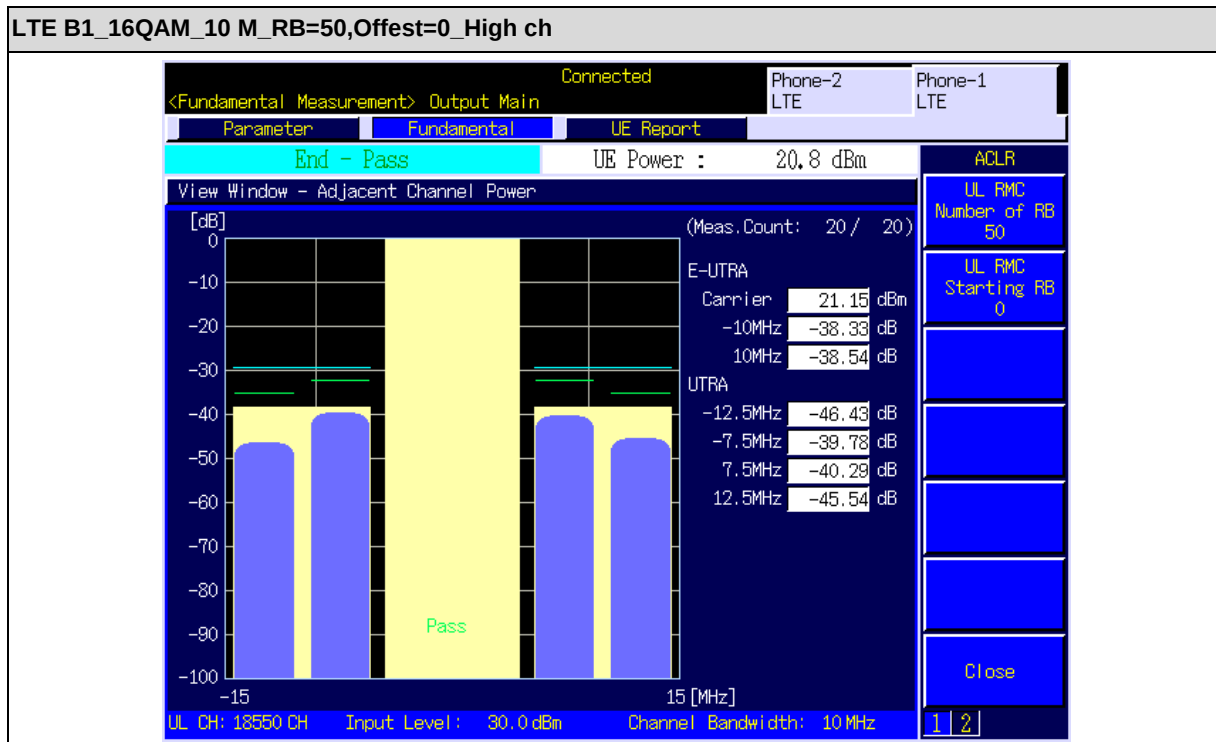
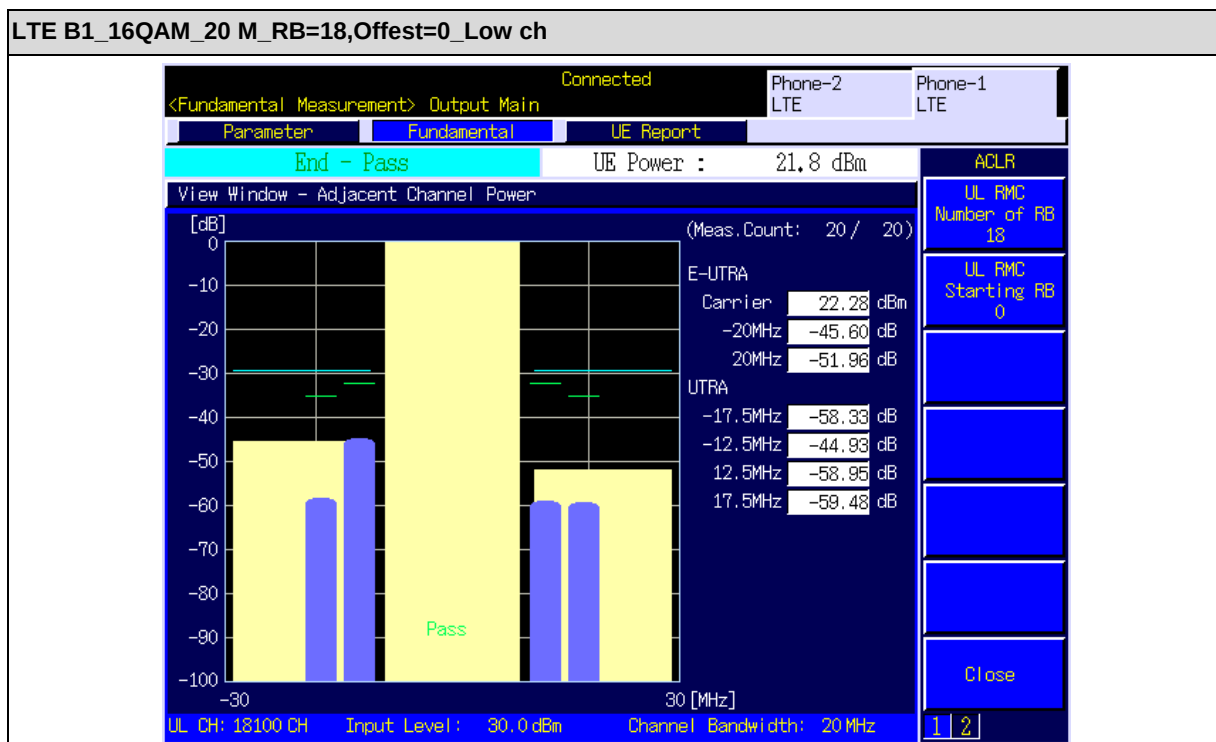


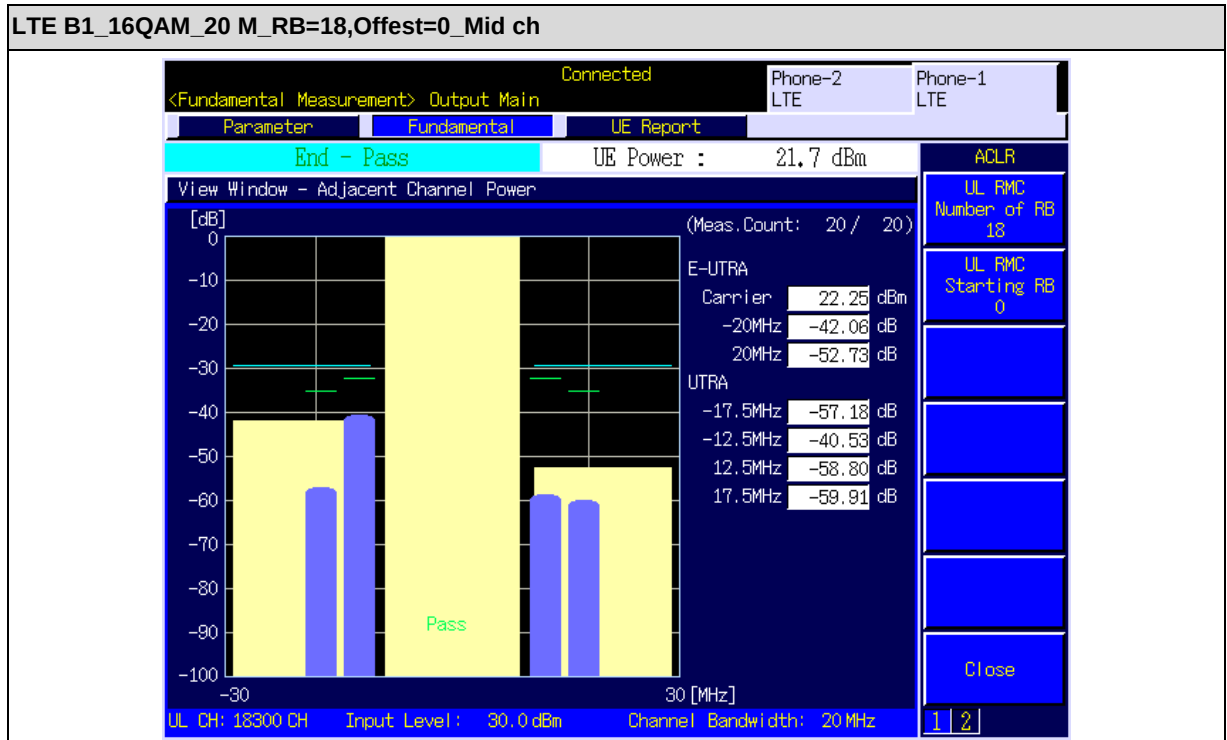
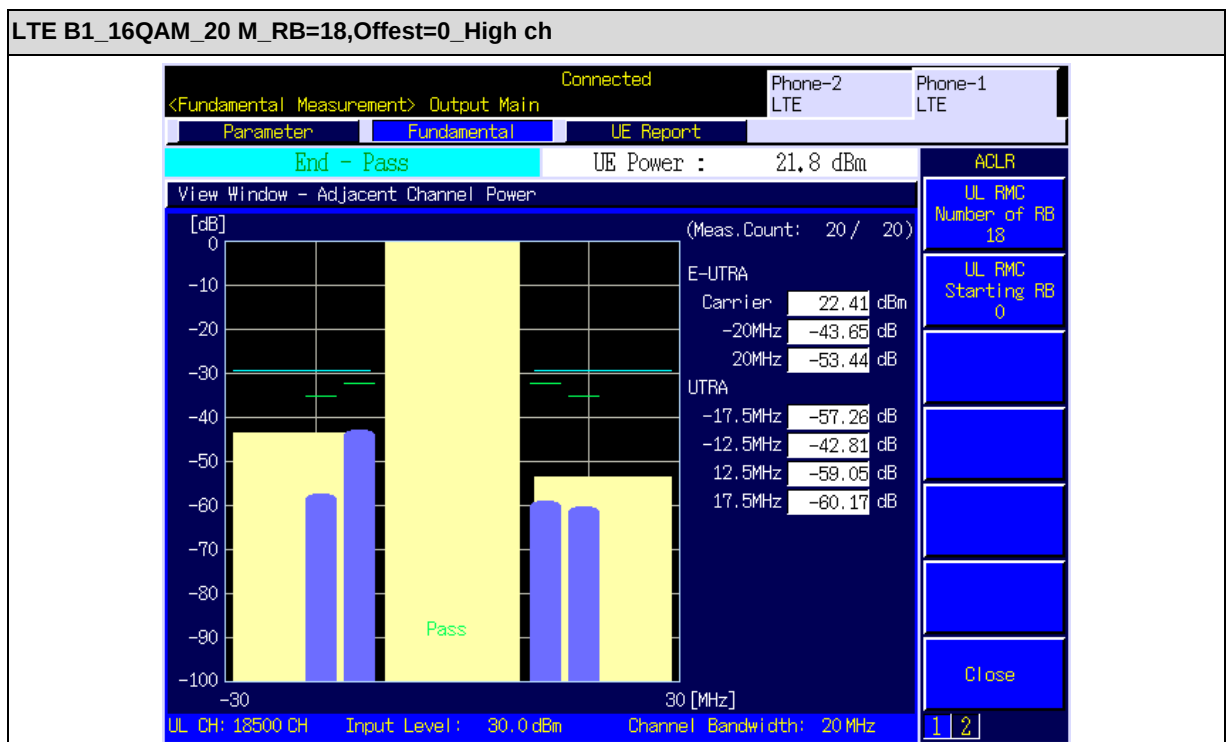


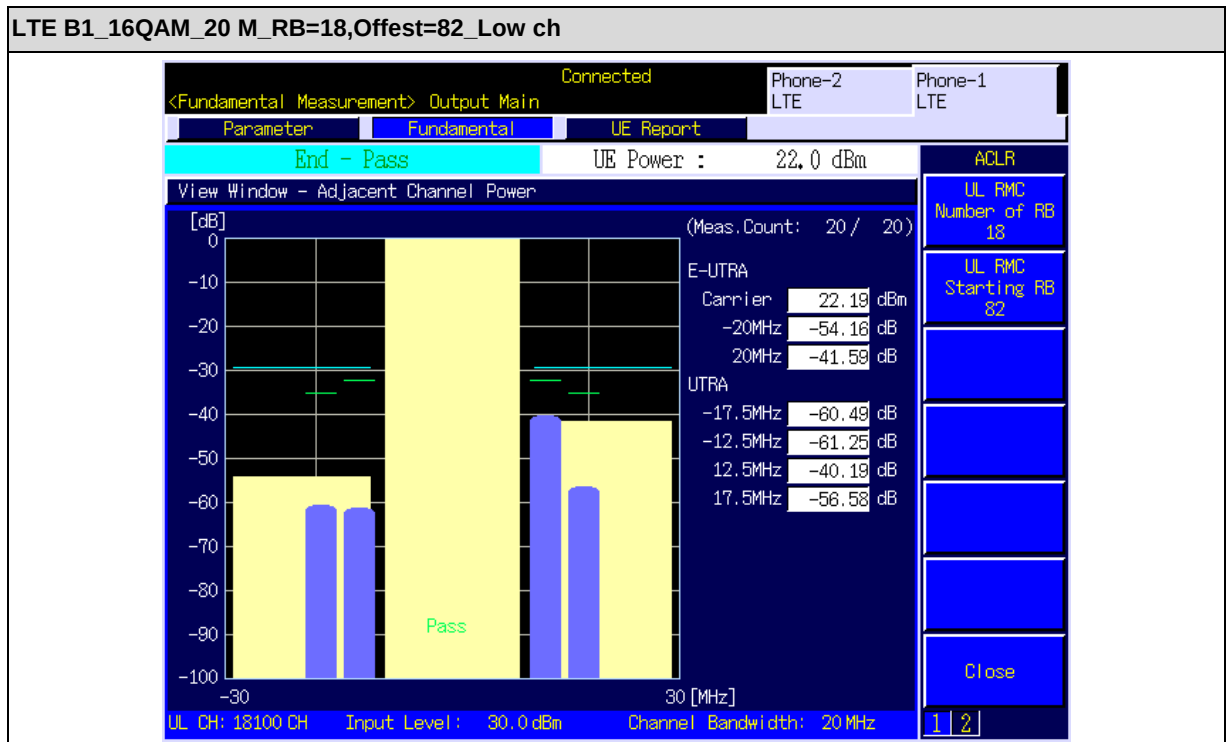
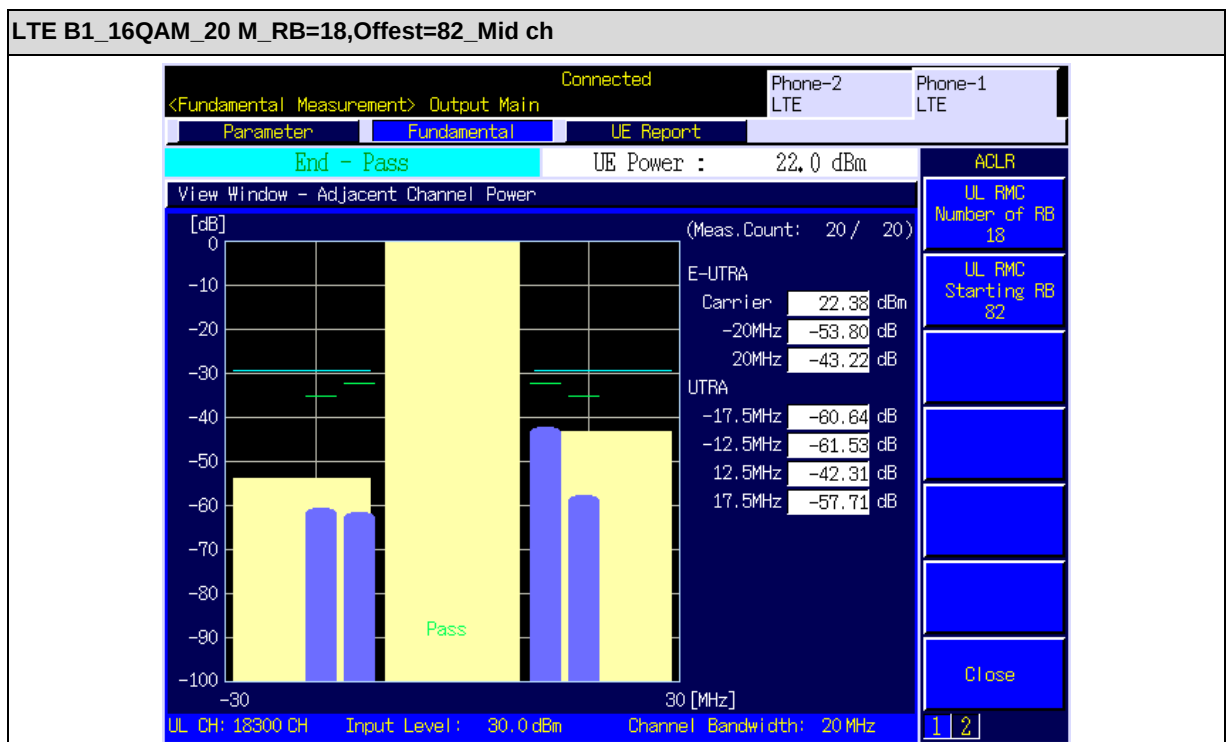


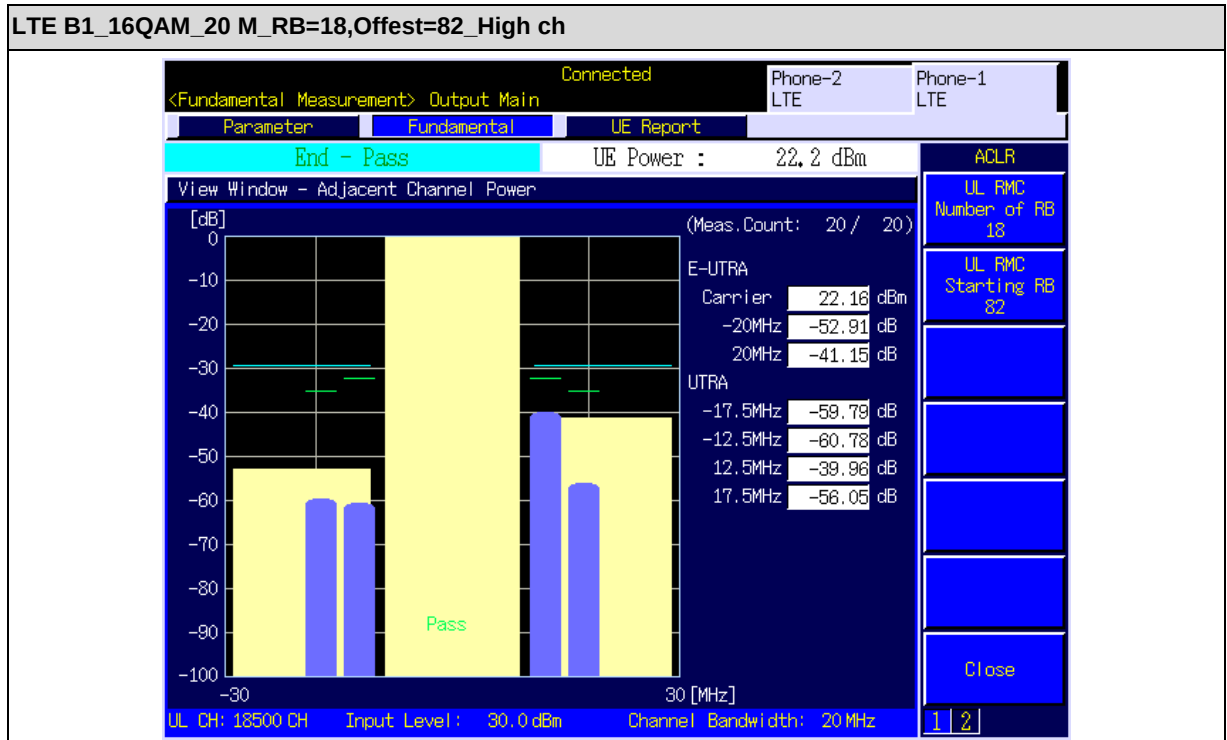
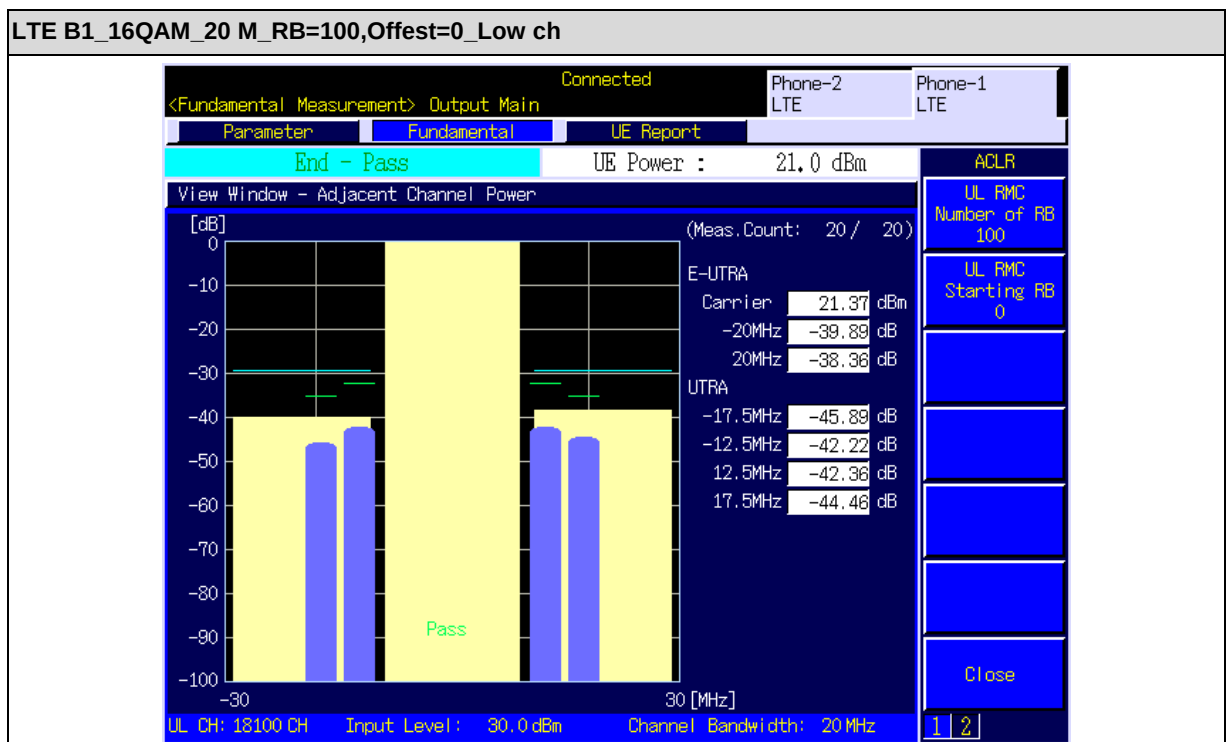


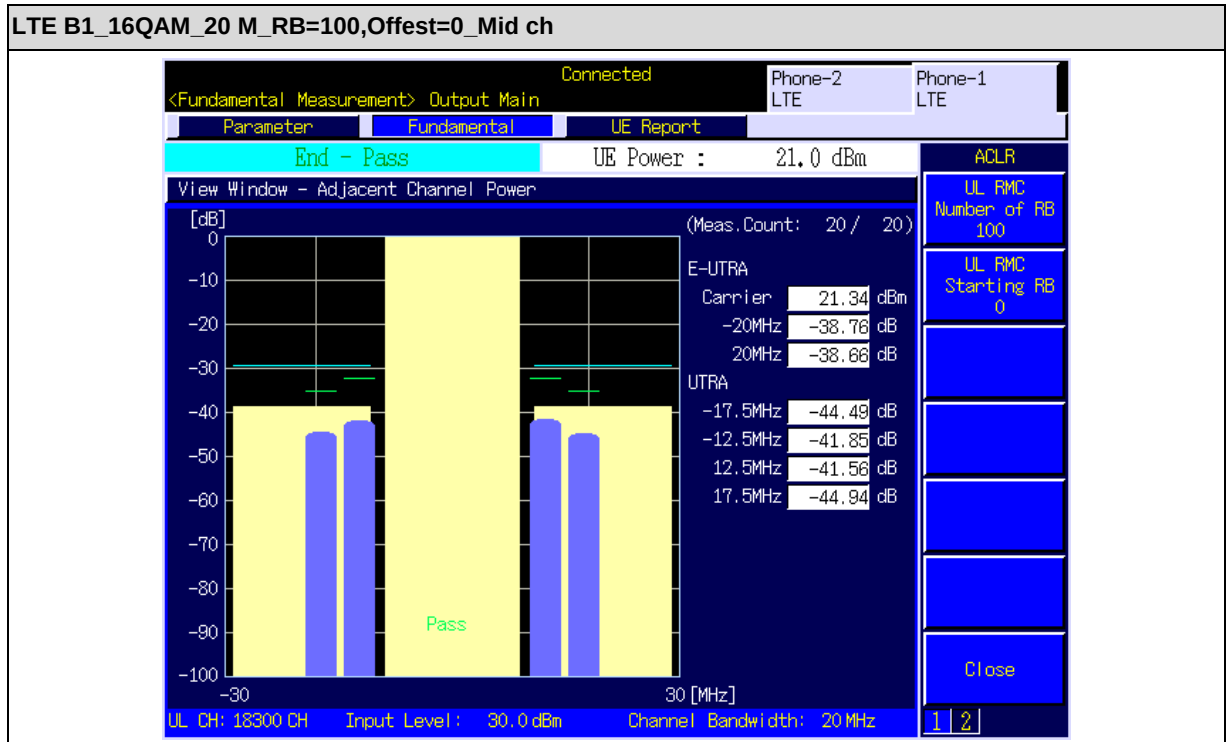
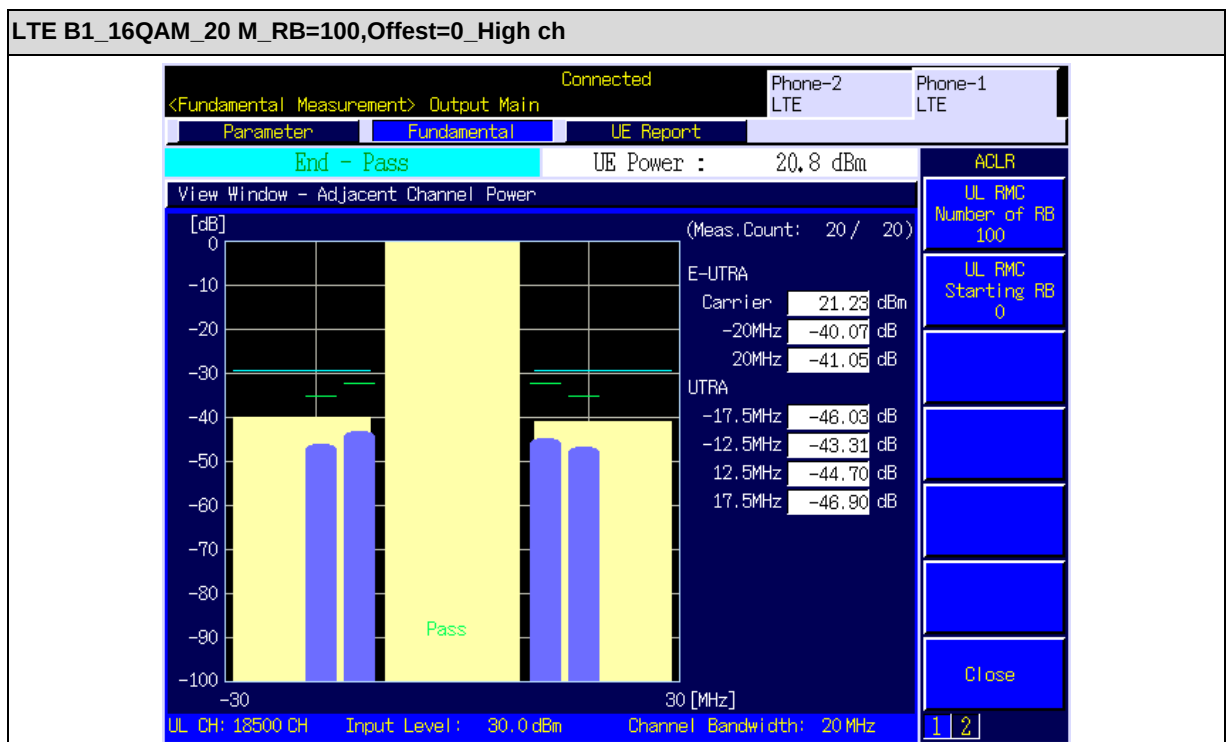












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