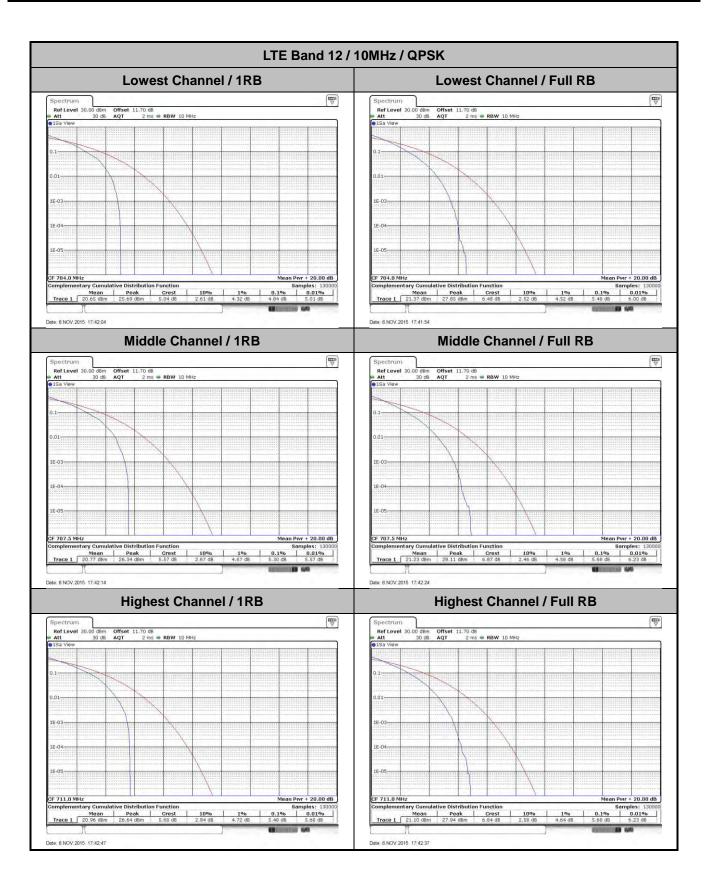
LTE Band 12

Peak-to-Average Ratio

Mode					
Mod.	QP	SK	16Q	Limit: 13dB	
RB Size	1RB	1RB Full RB 1RB Full RB		Result	
Lowest CH	4.84	5.48	5.88	6.41	
Middle CH	5.3	5.68	6.49	6.41	PASS
Highest CH	5.48	5.68	6.35	6.7	

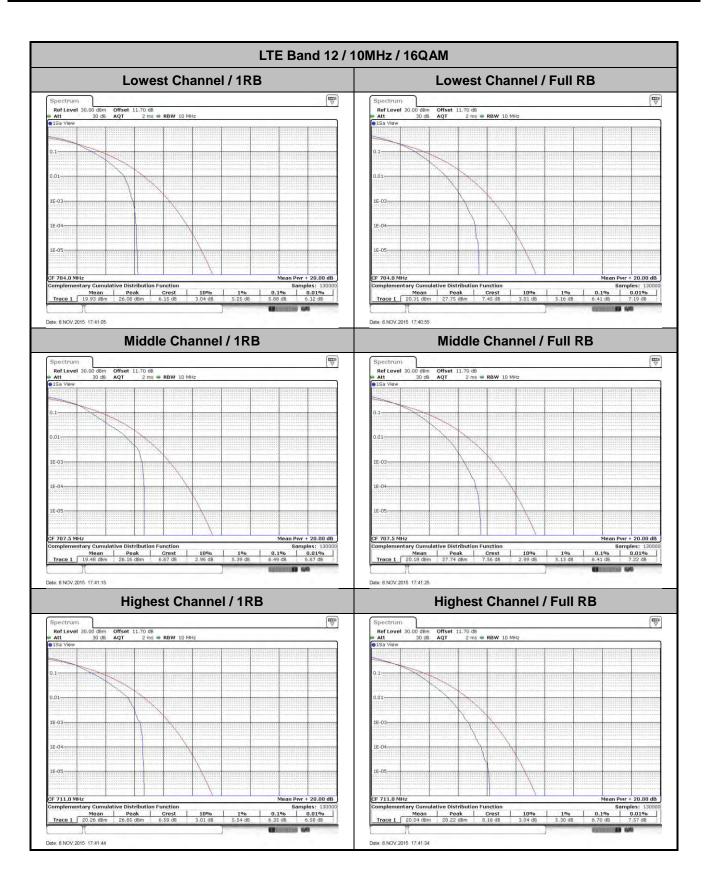
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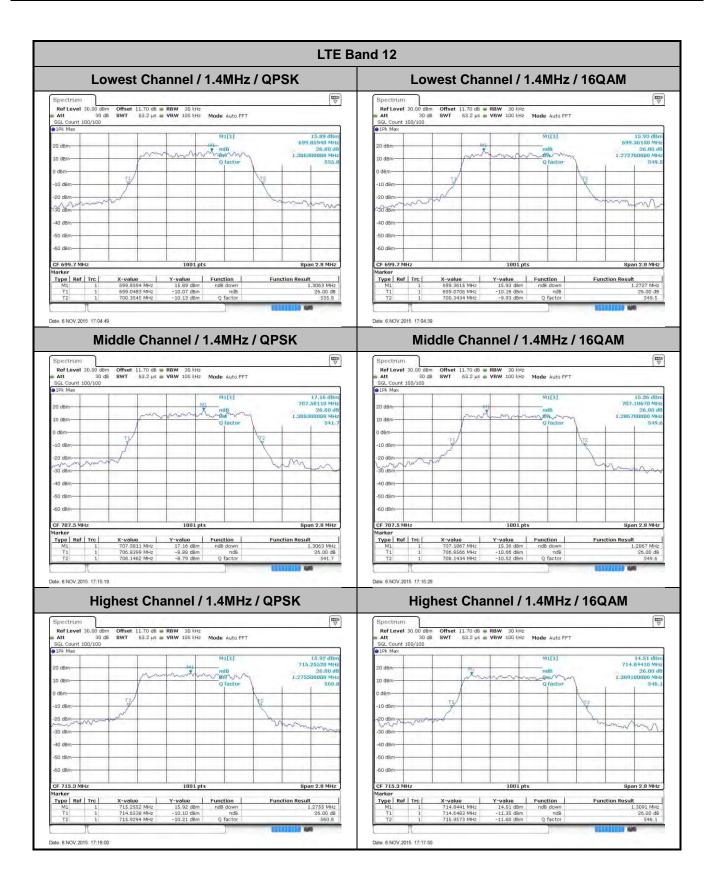
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26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.31	1.27	3.09	3.05	4.89	4.9	9.73	9.79	-	-	-	-
Middle CH	1.31	1.29	3.1	3.05	5.1	4.94	9.87	9.91	-	-	-	-
Highest CH	1.28	1.31	3.09	3.11	4.95	4.93	9.87	9.61	-	-	-	-

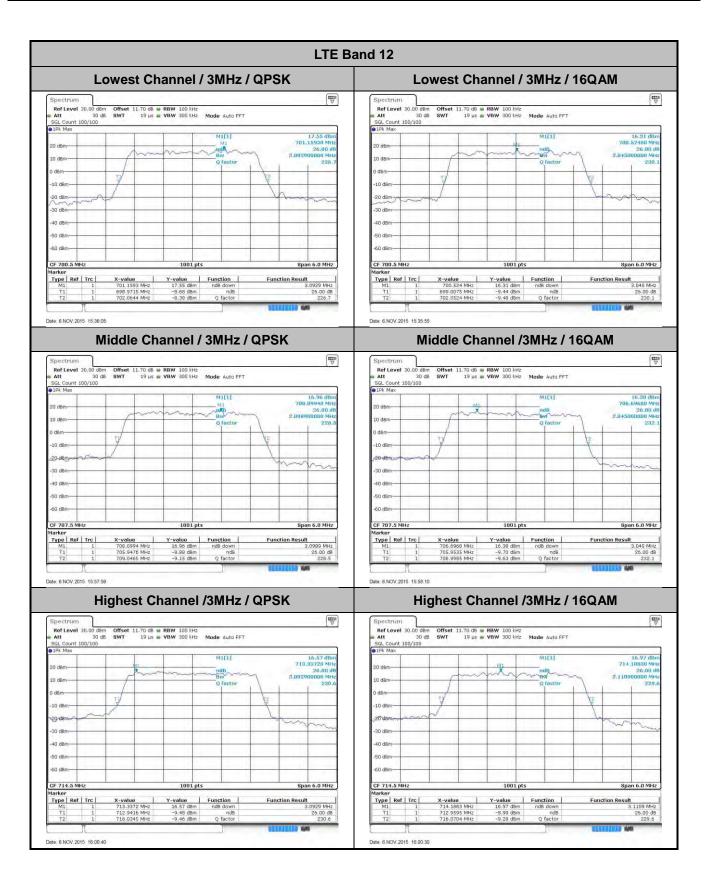
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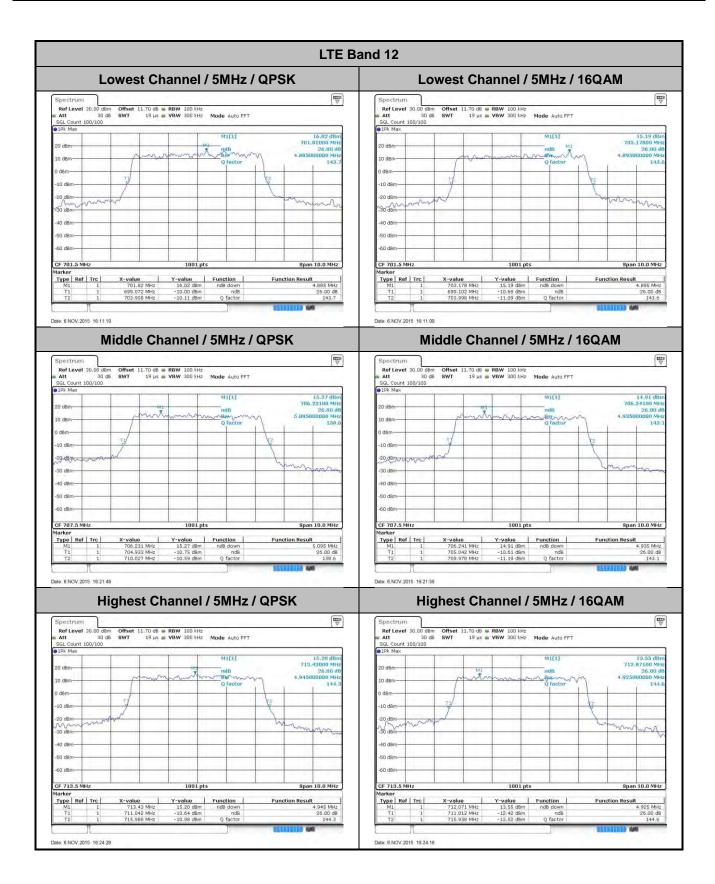
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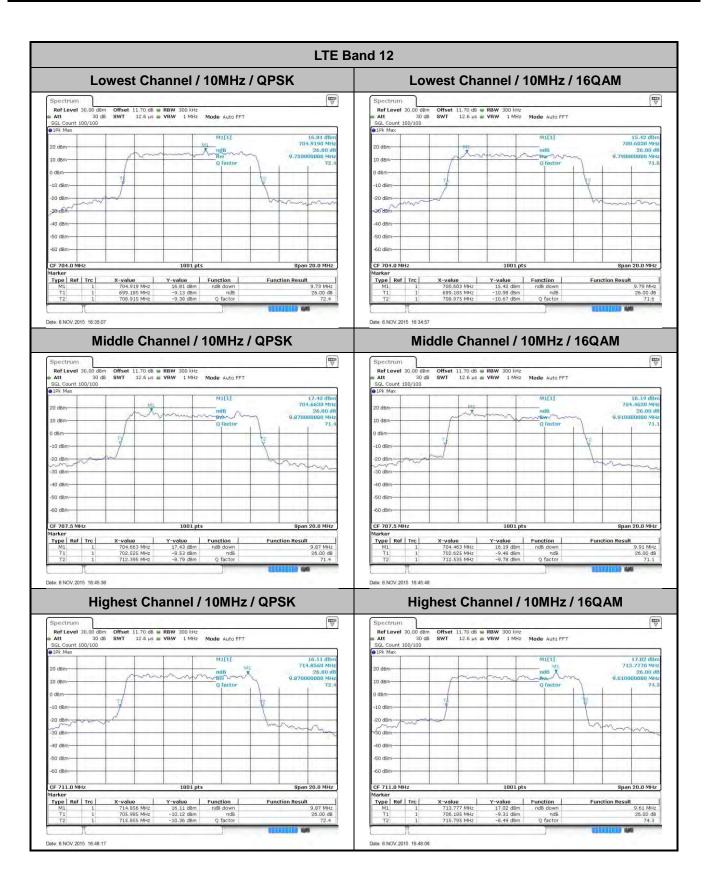
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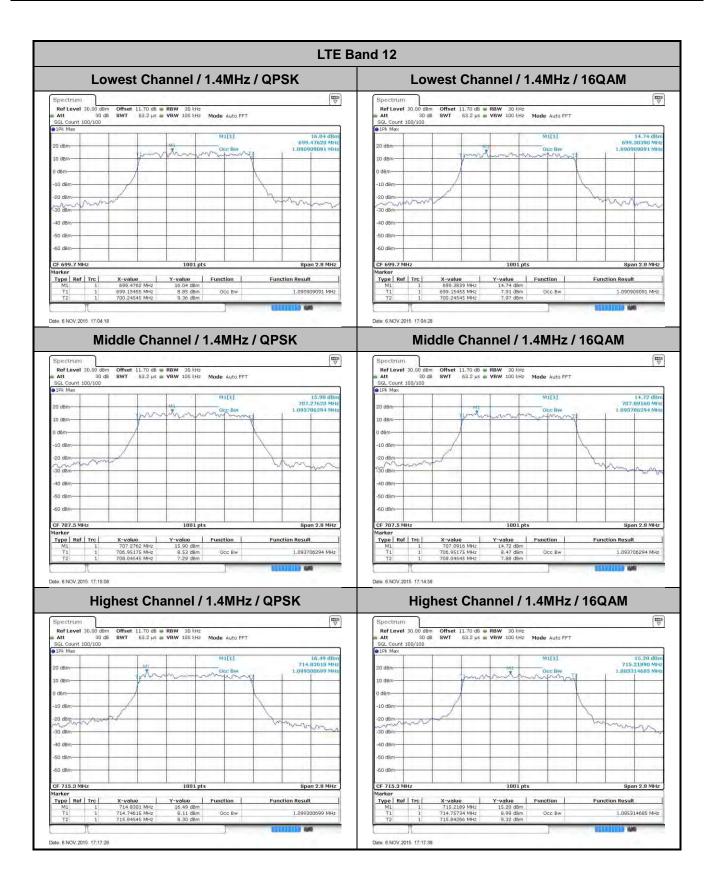
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Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.7	4.51	4.48	9.01	9.01	-	-	-	-
Middle CH	1.09	1.09	2.73	2.72	4.49	4.51	8.99	8.99	-	-	-	-
Highest CH	1.1	1.09	2.72	2.74	4.5	4.49	9.09	9.01	-	-	-	-

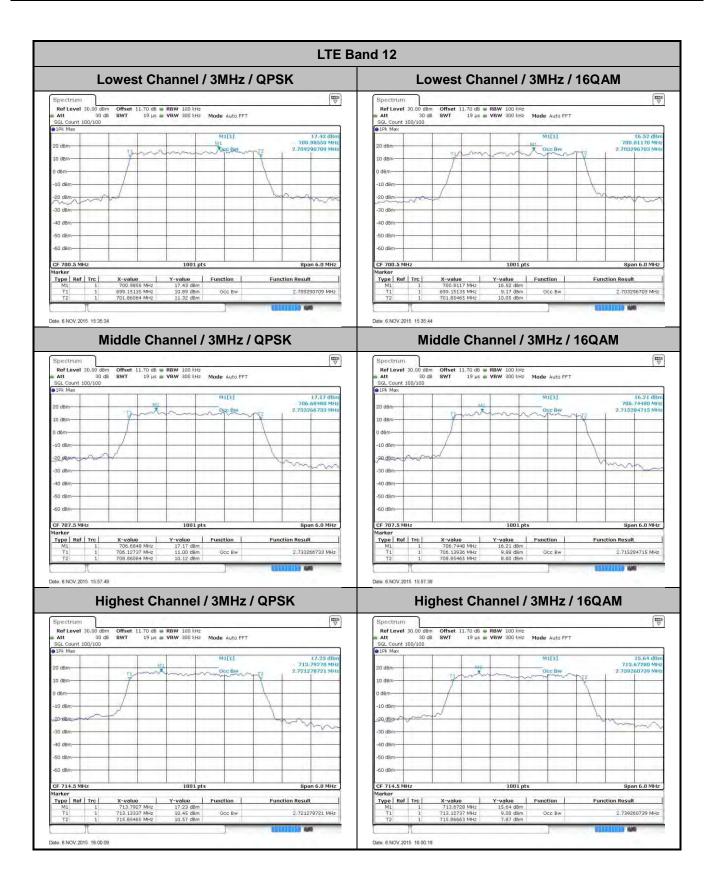
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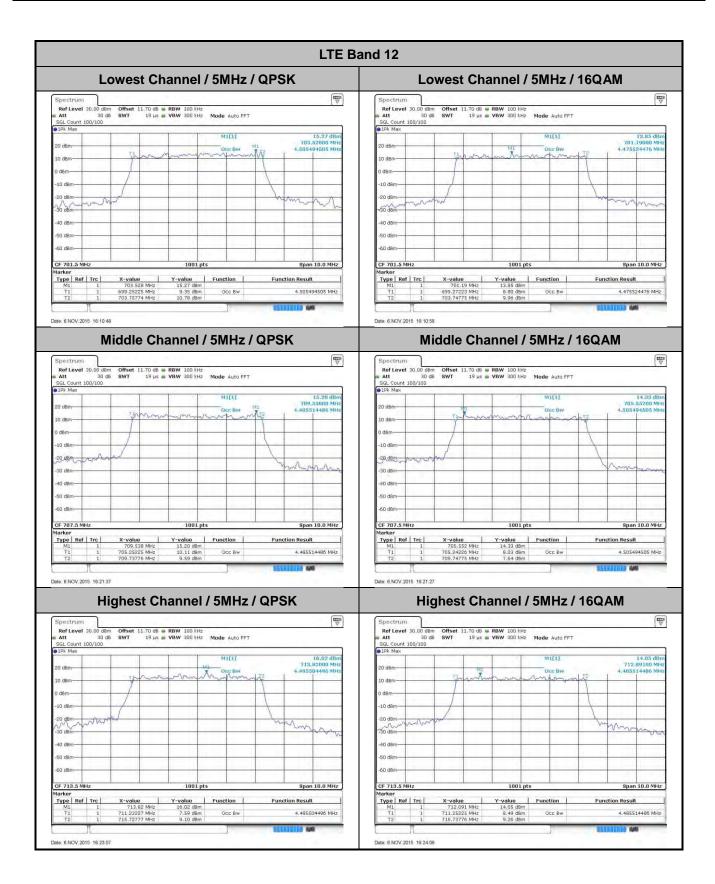


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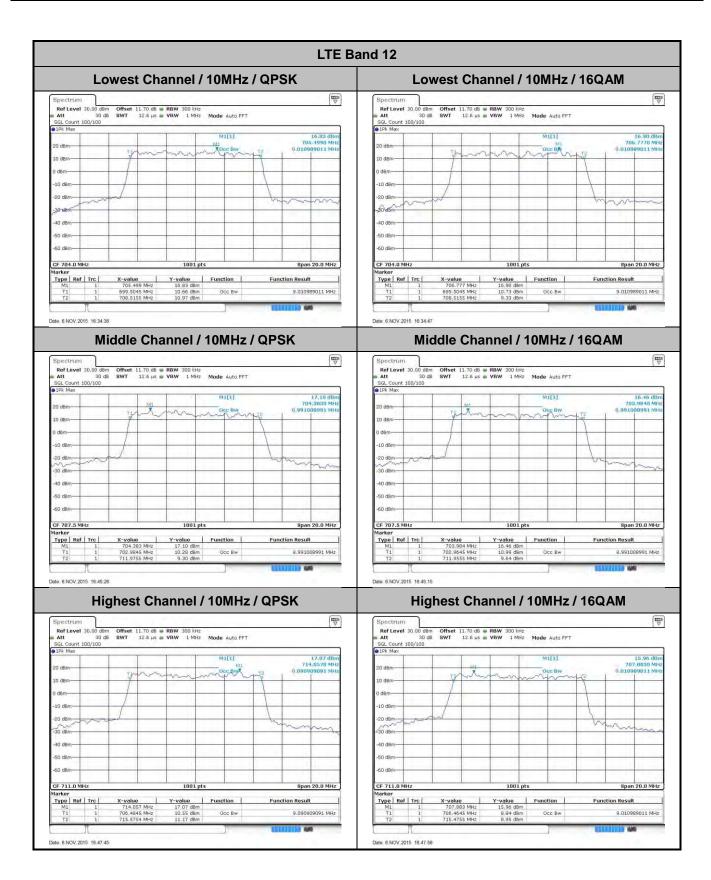
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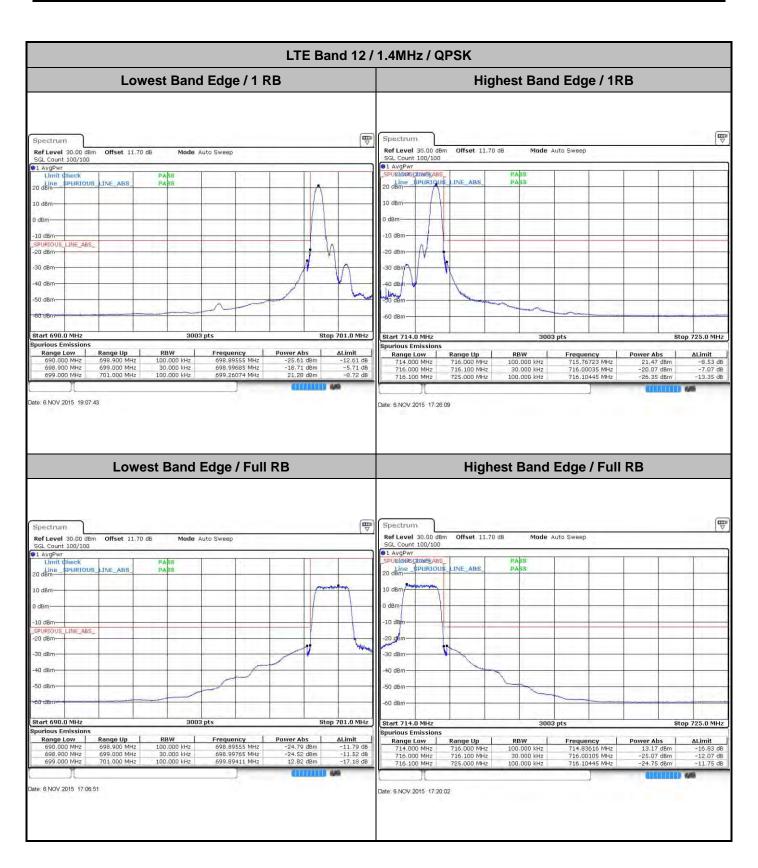
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Conducted Band Edge

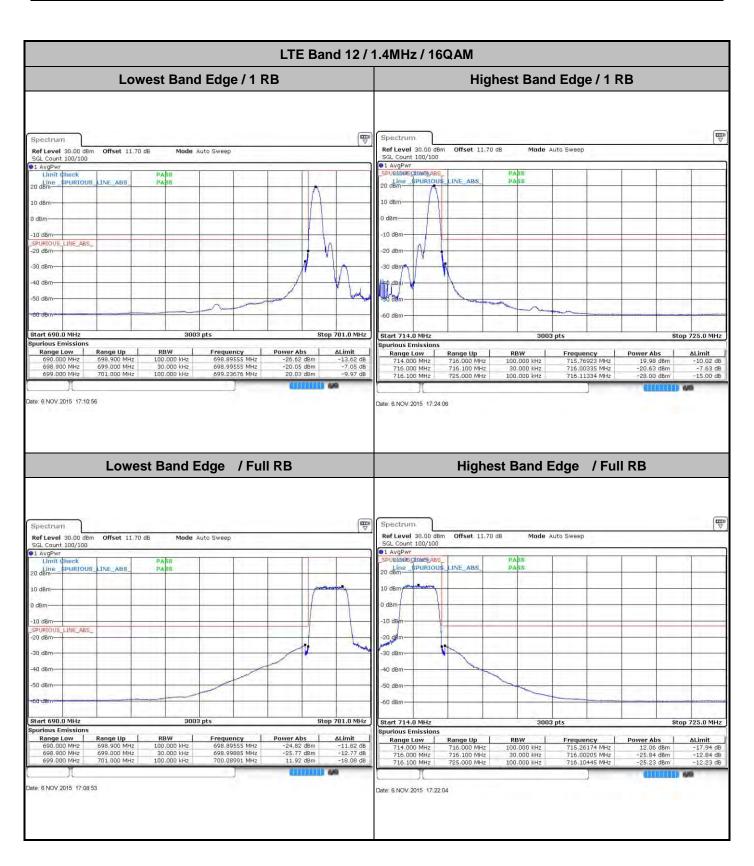
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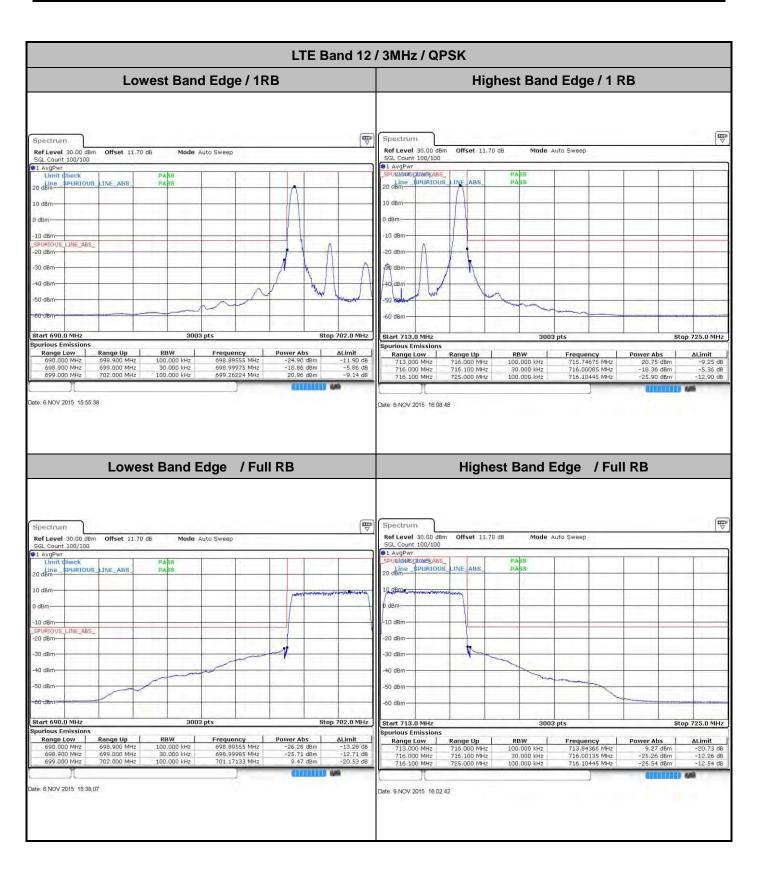
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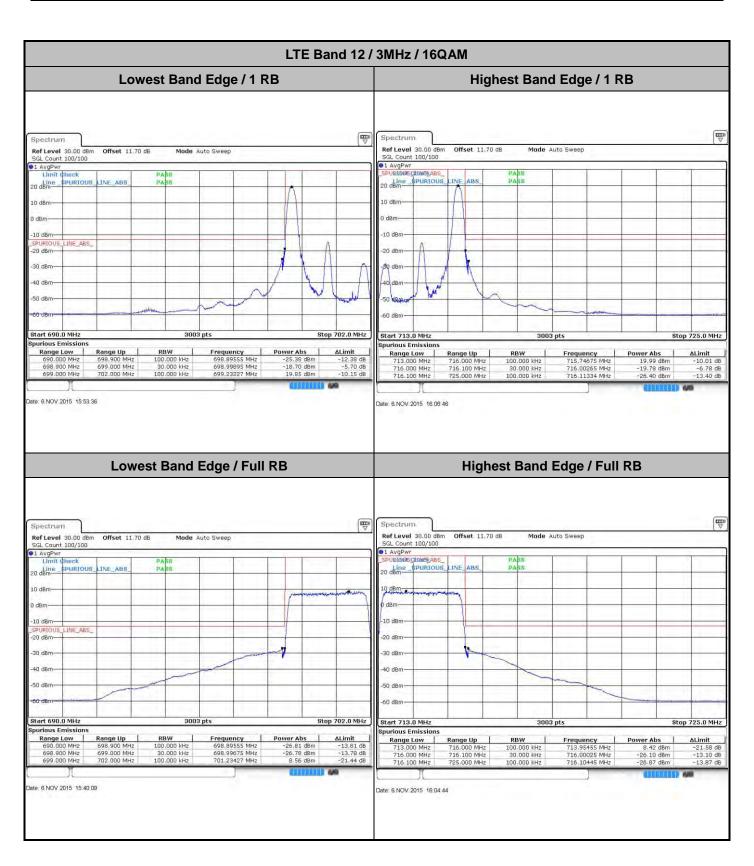
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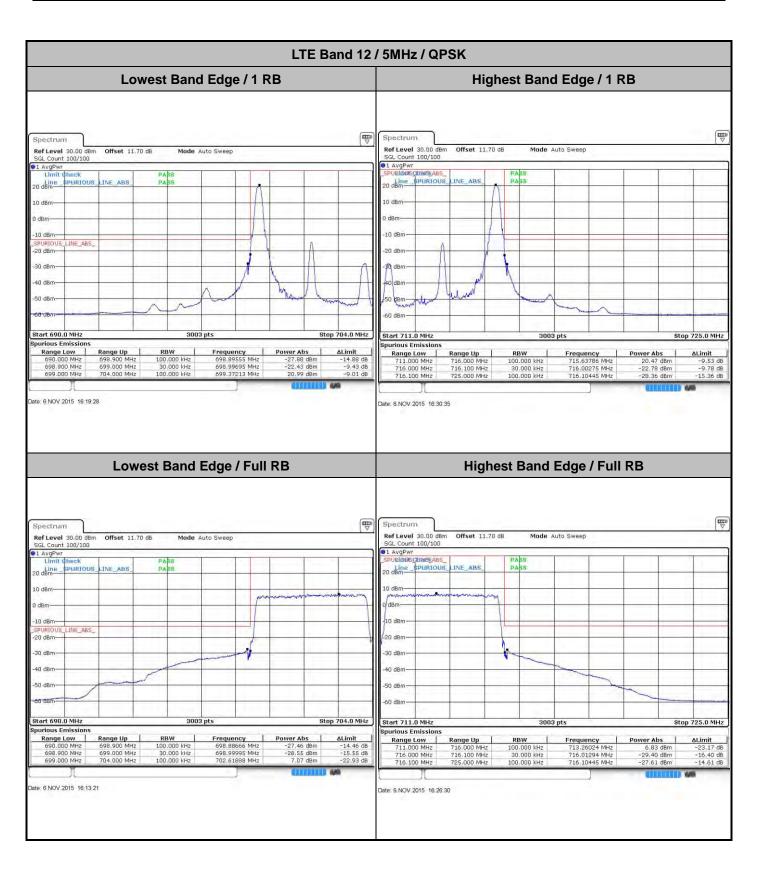
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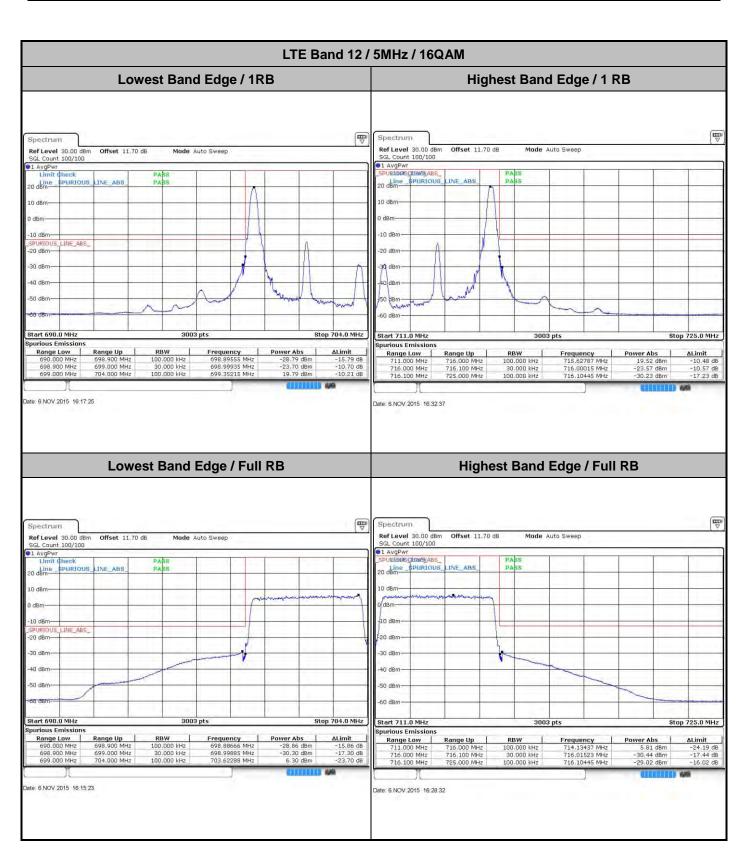
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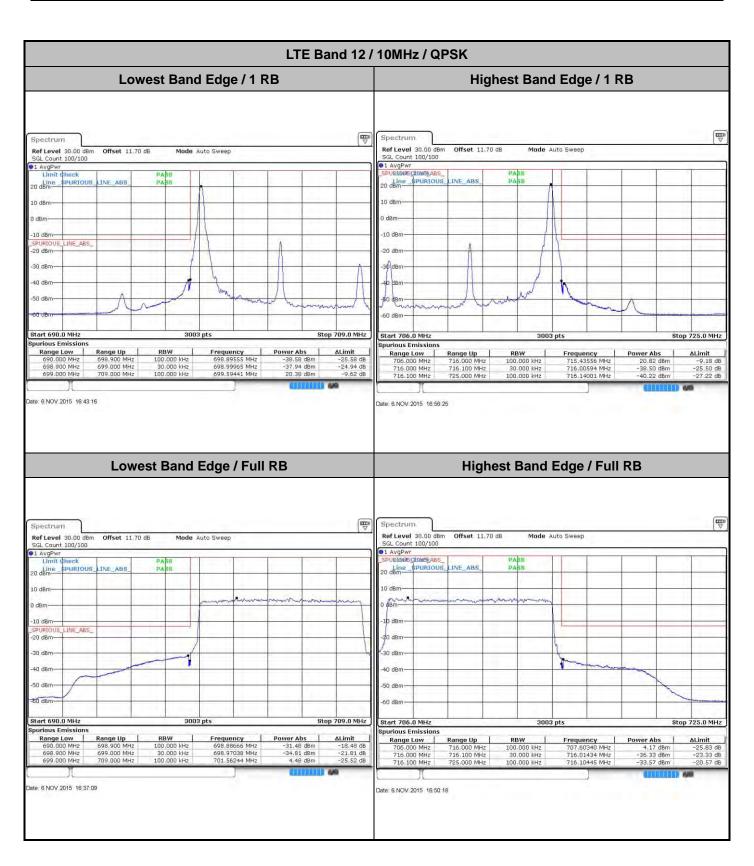
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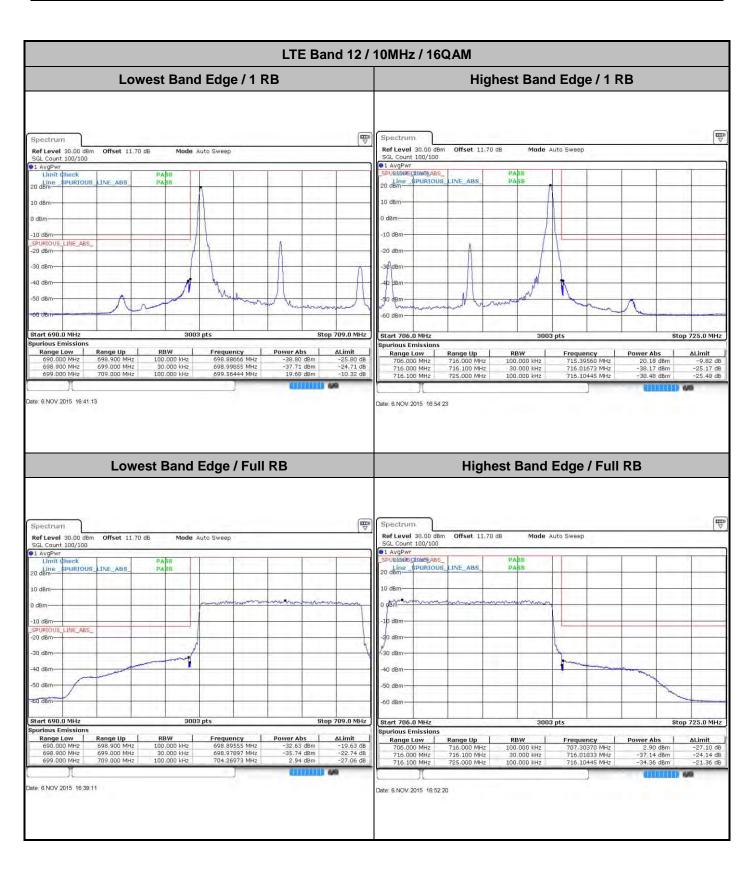


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Conducted Spurious Emission

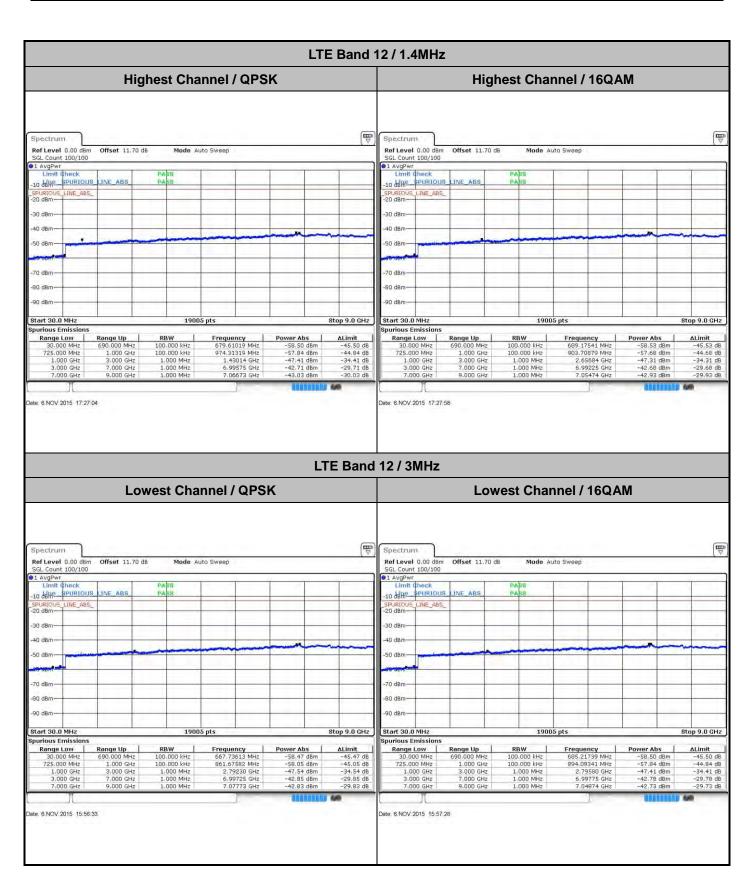
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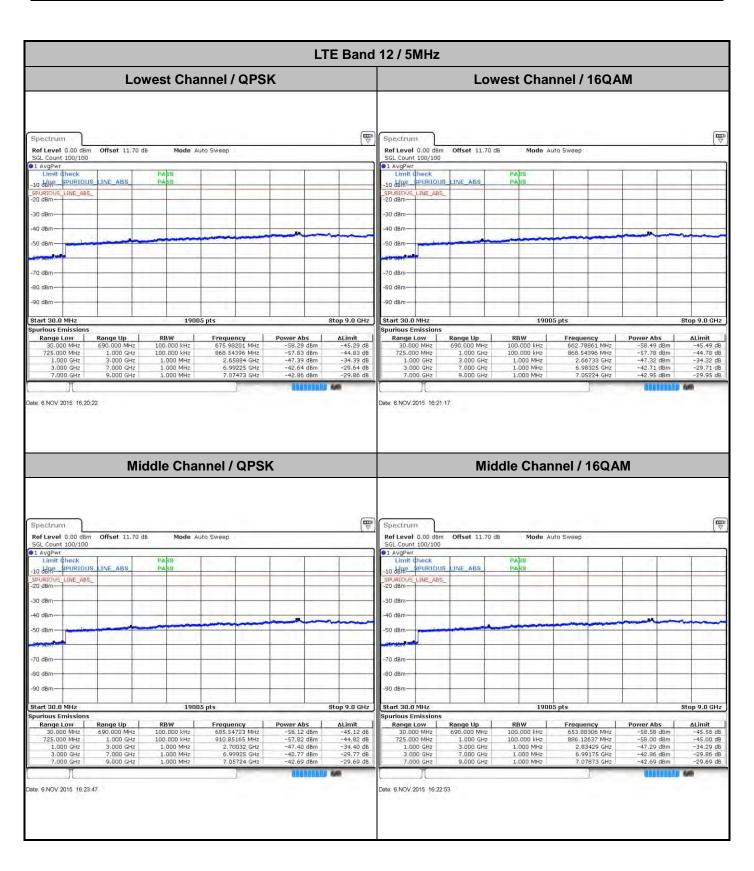


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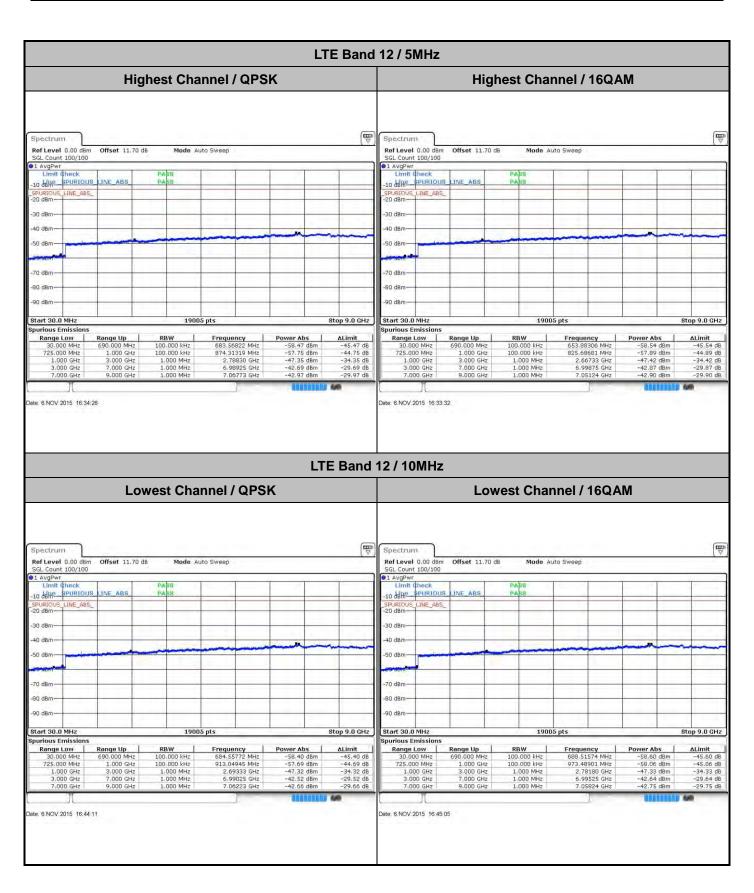
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Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
_		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0185	
40	Normal Voltage	0.0150	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0151	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0027	PASS
-20	Normal Voltage	0.0141	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0023	

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Note:

- 1. Normal Voltage = 12V. ; Battery End Point (BEP) = 9 V. ; Maximum Voltage = 32 V
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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