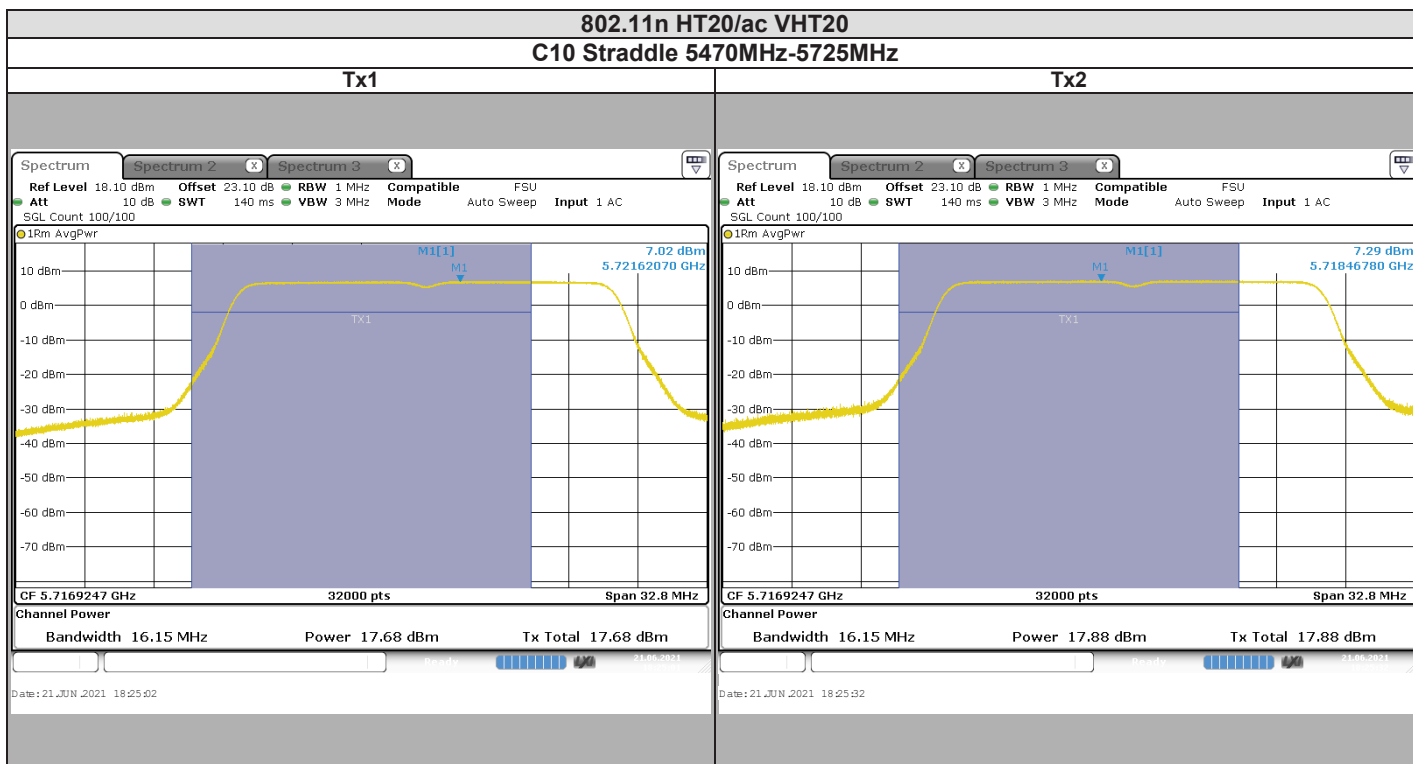
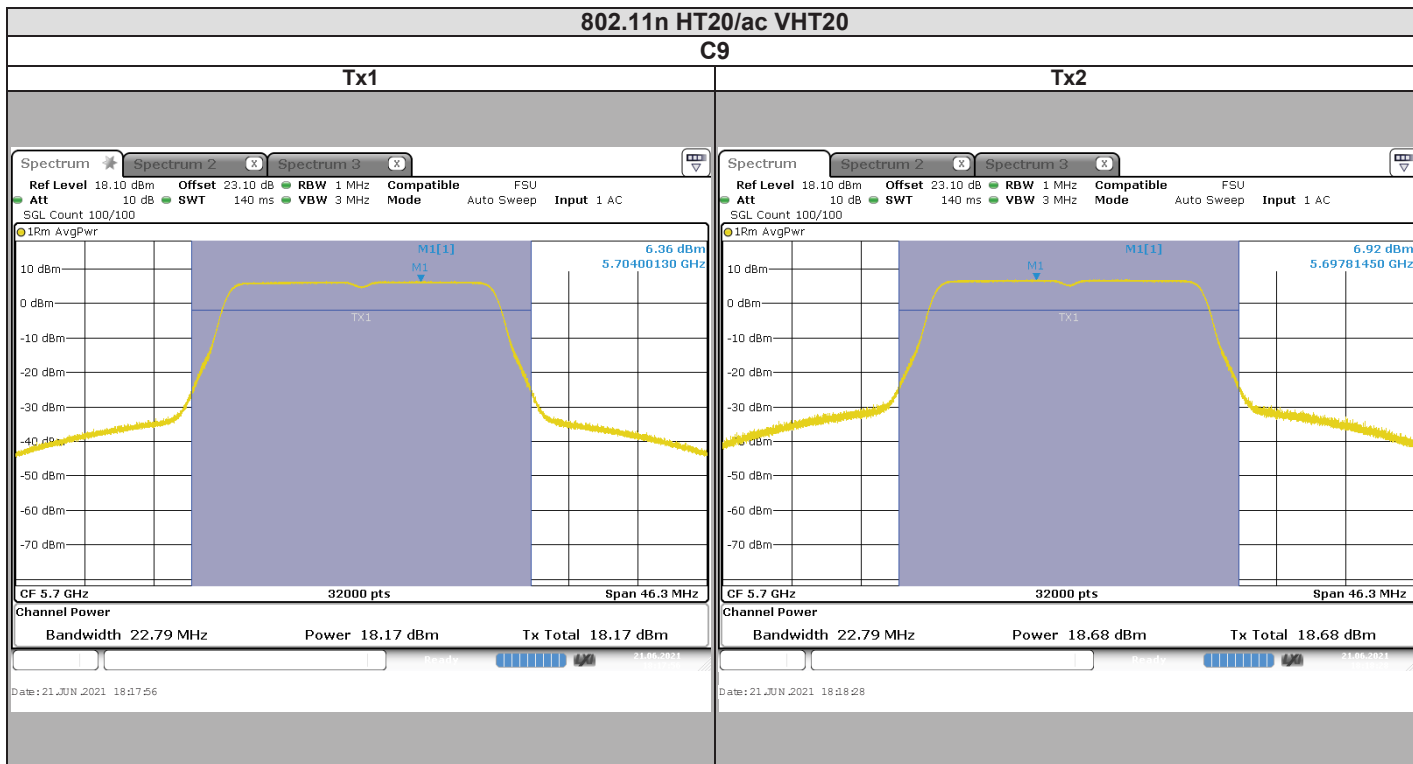
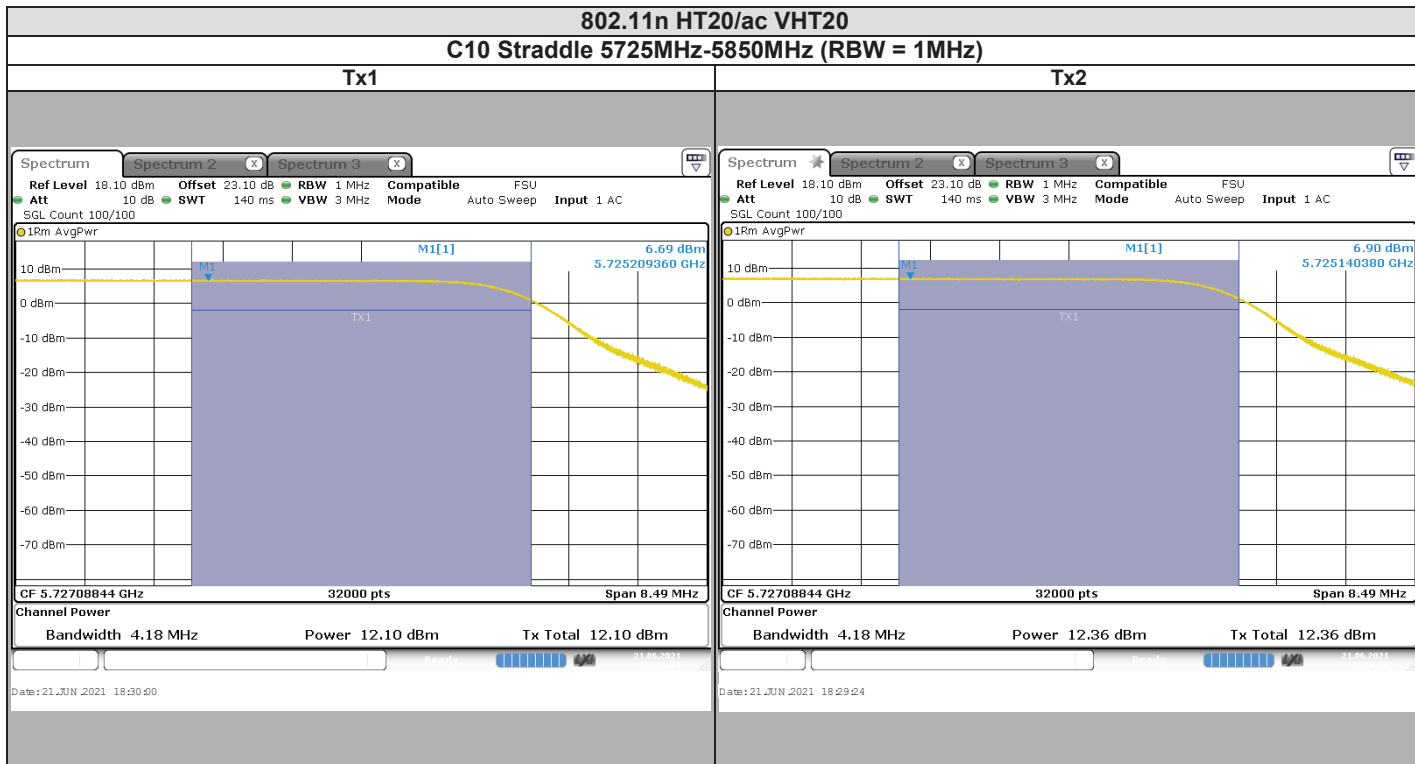
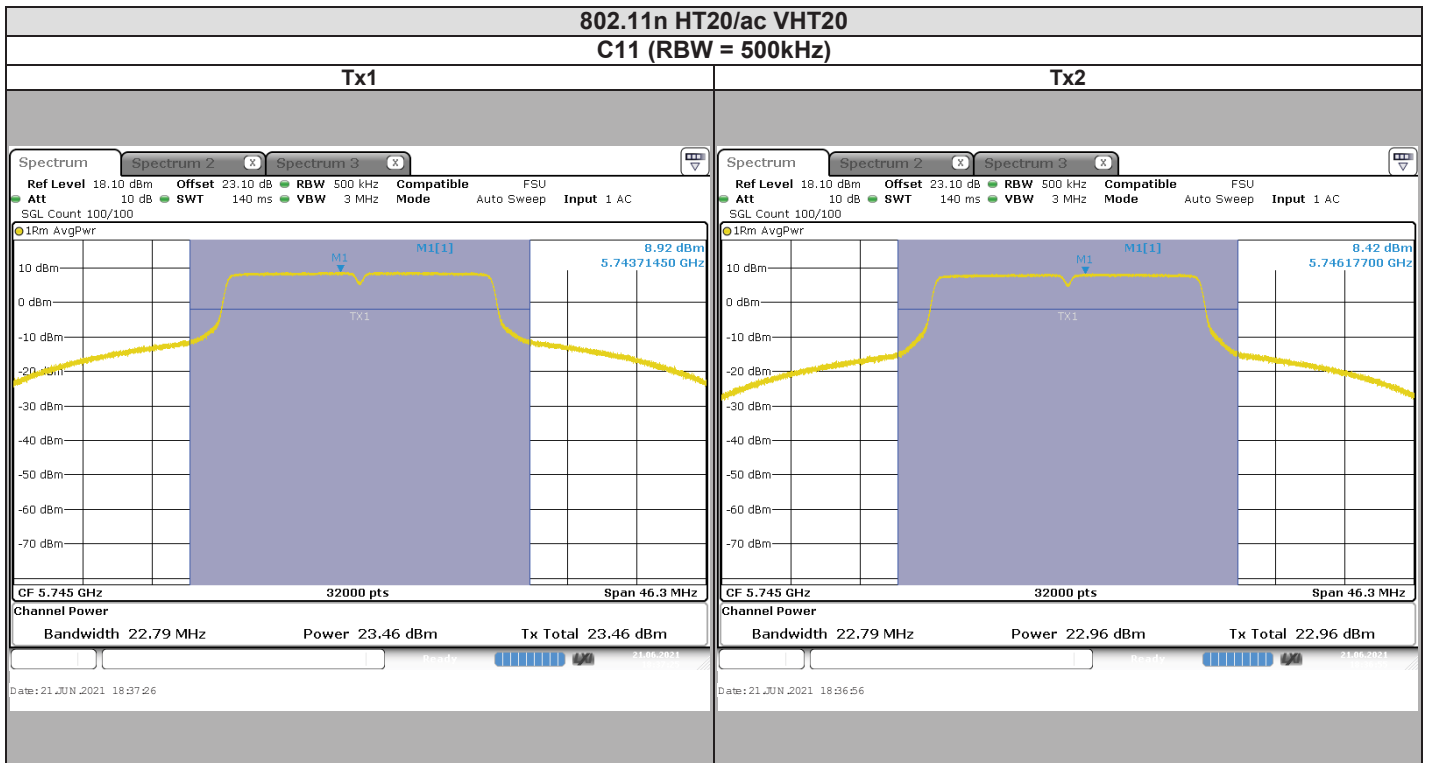
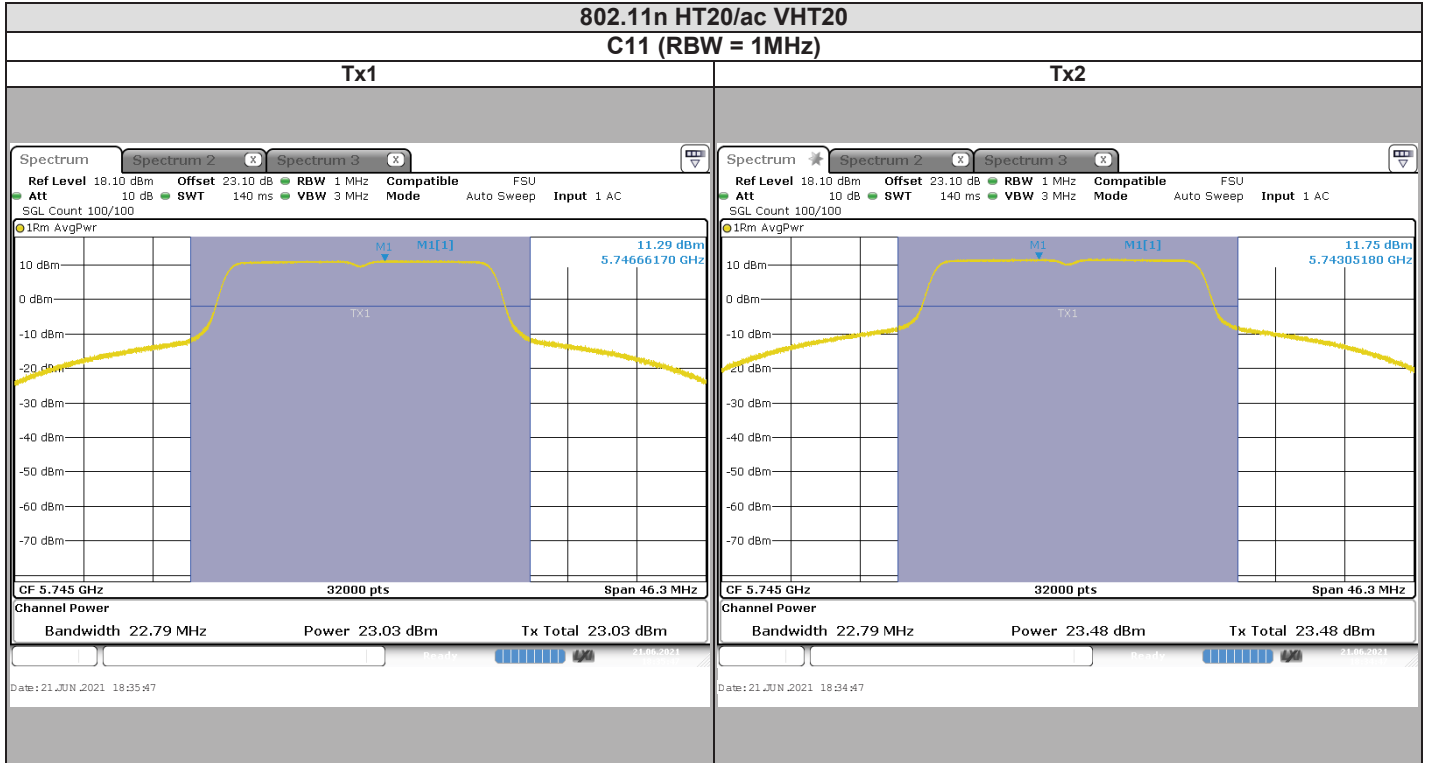
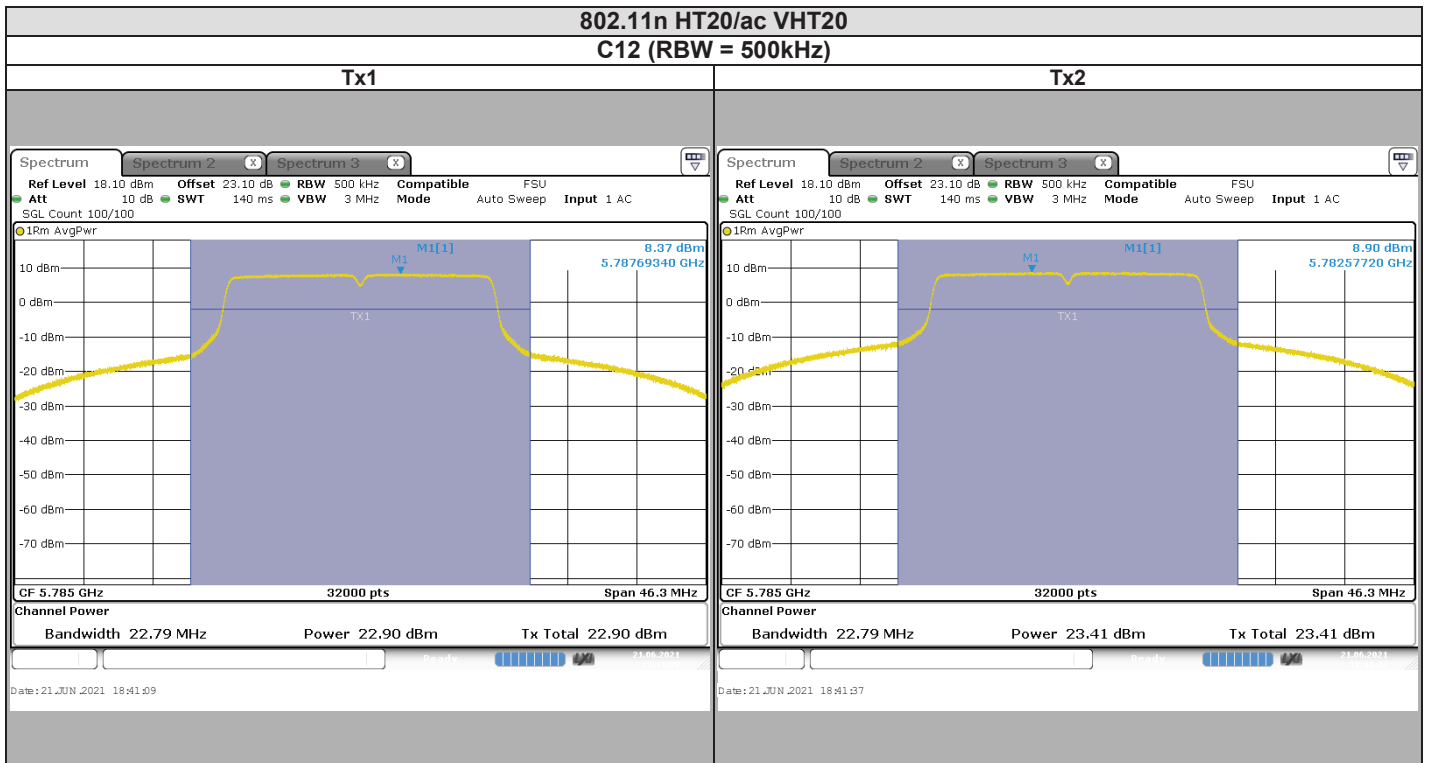
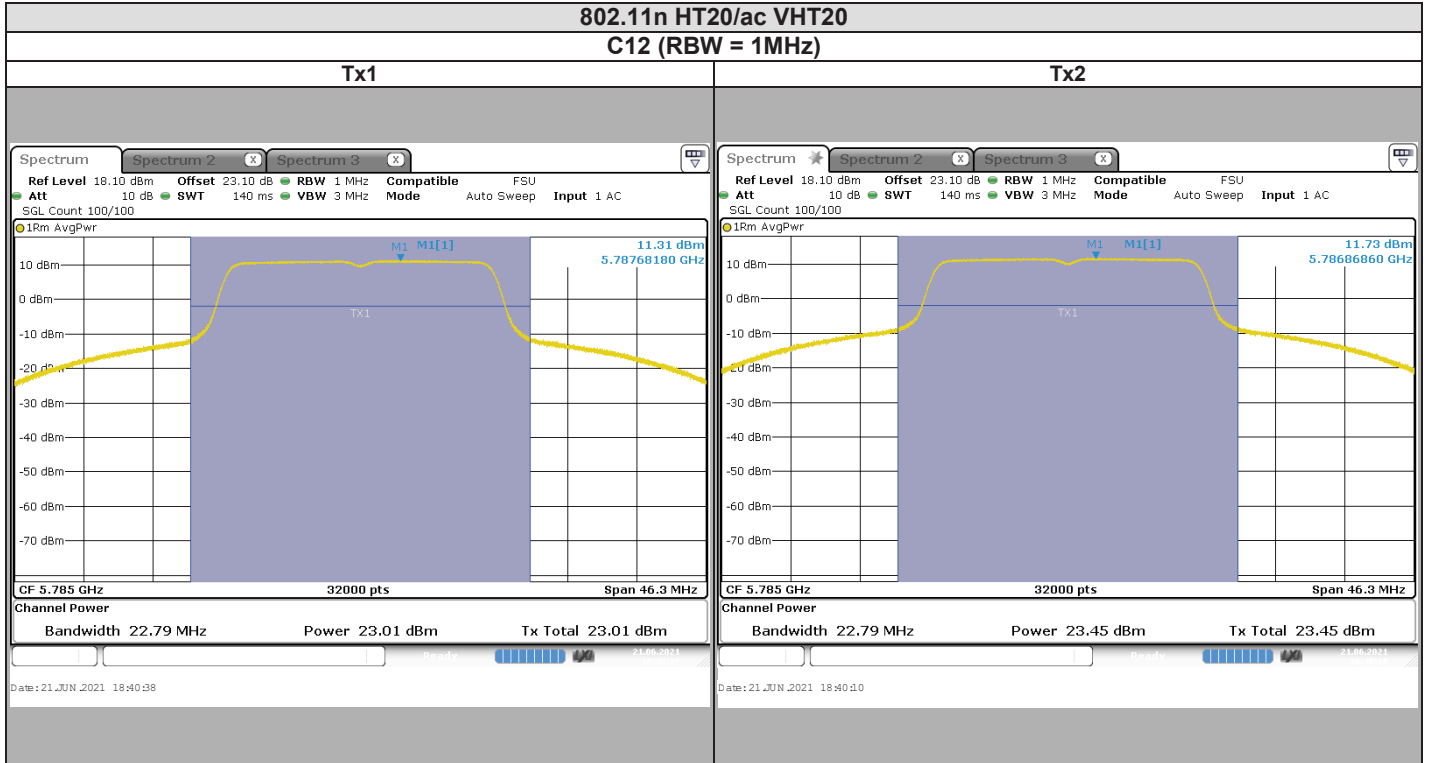
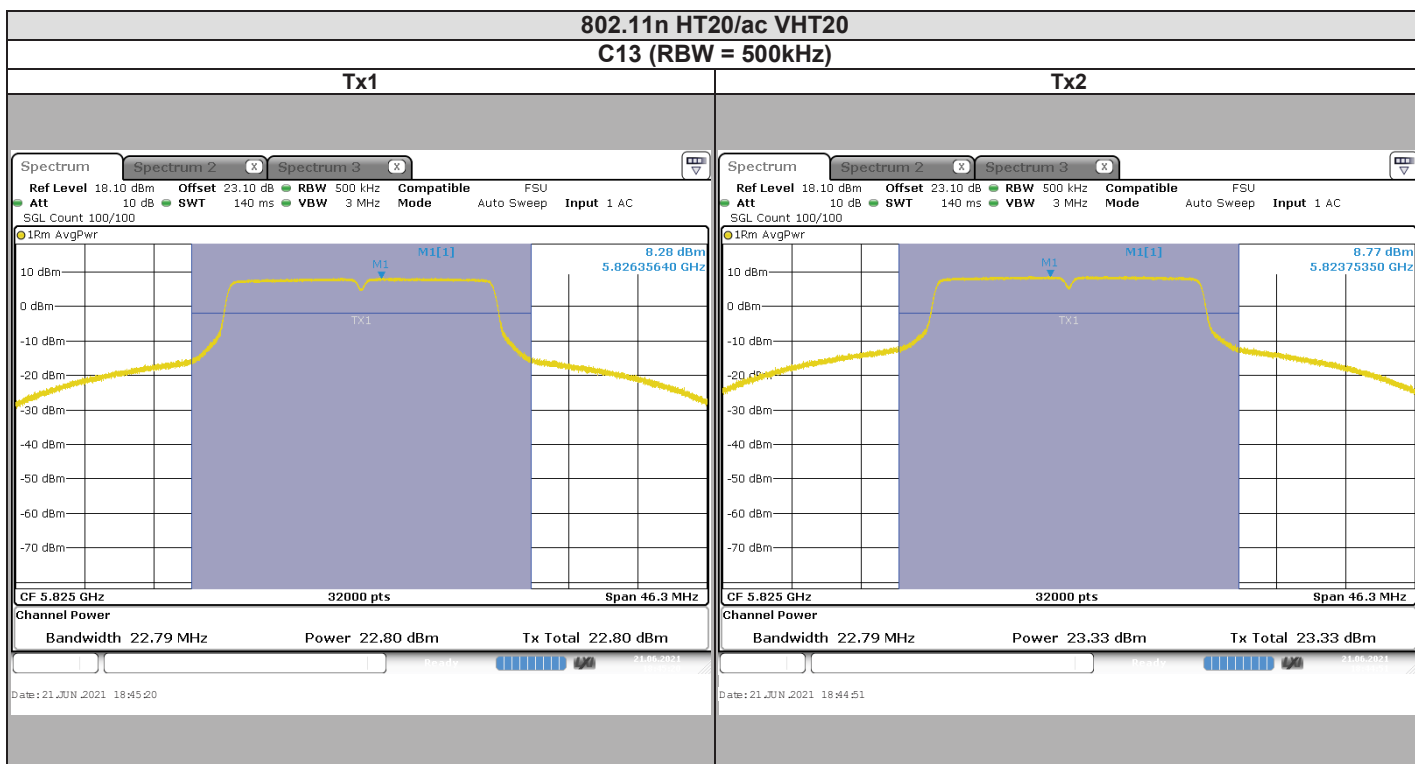
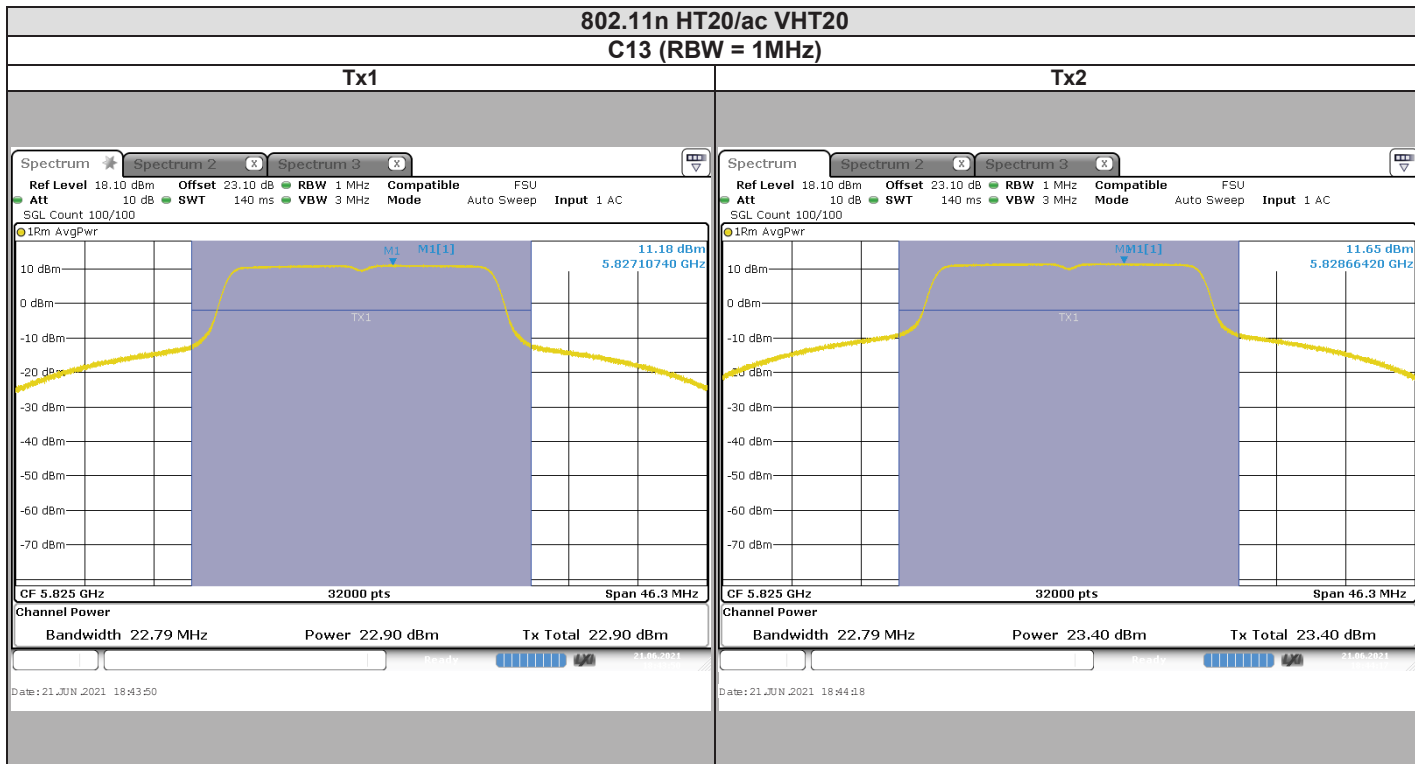


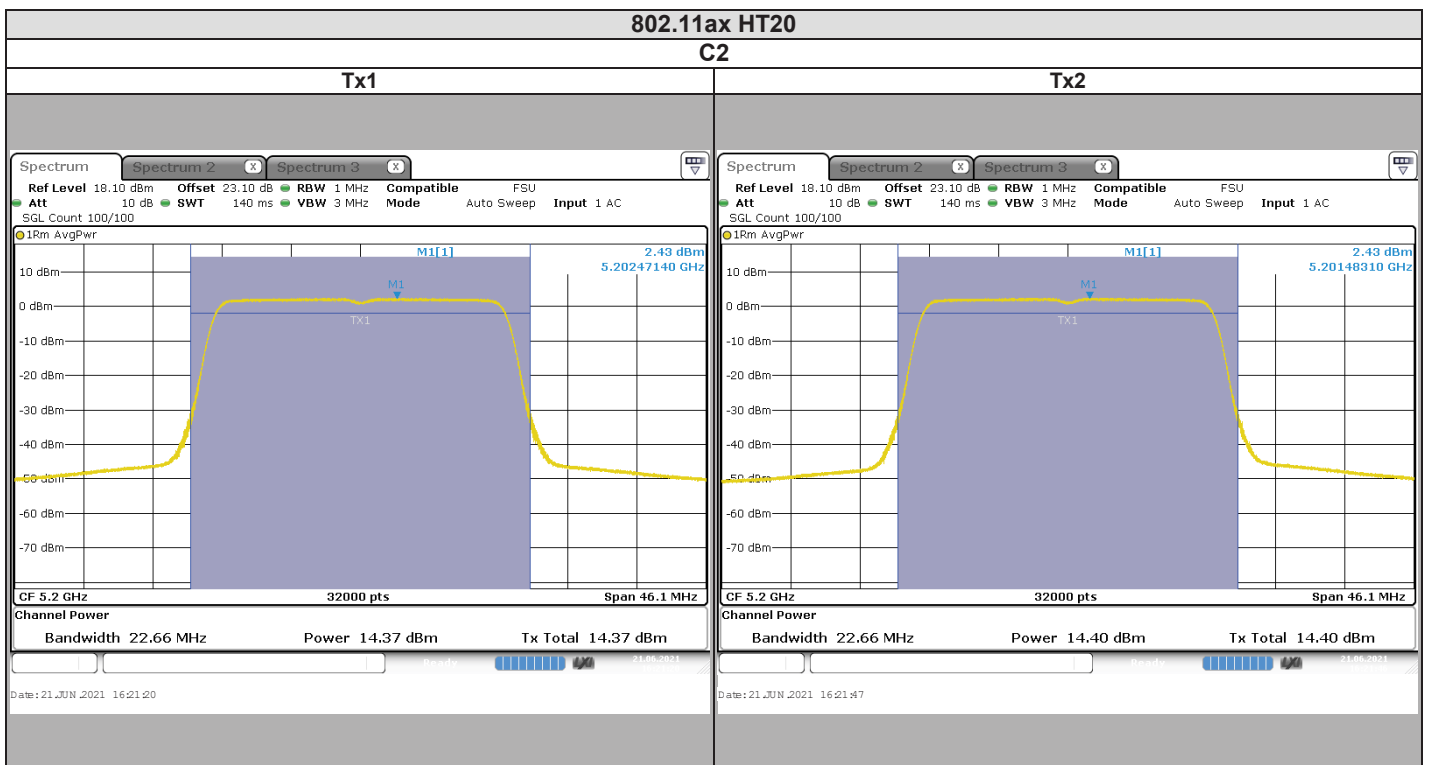
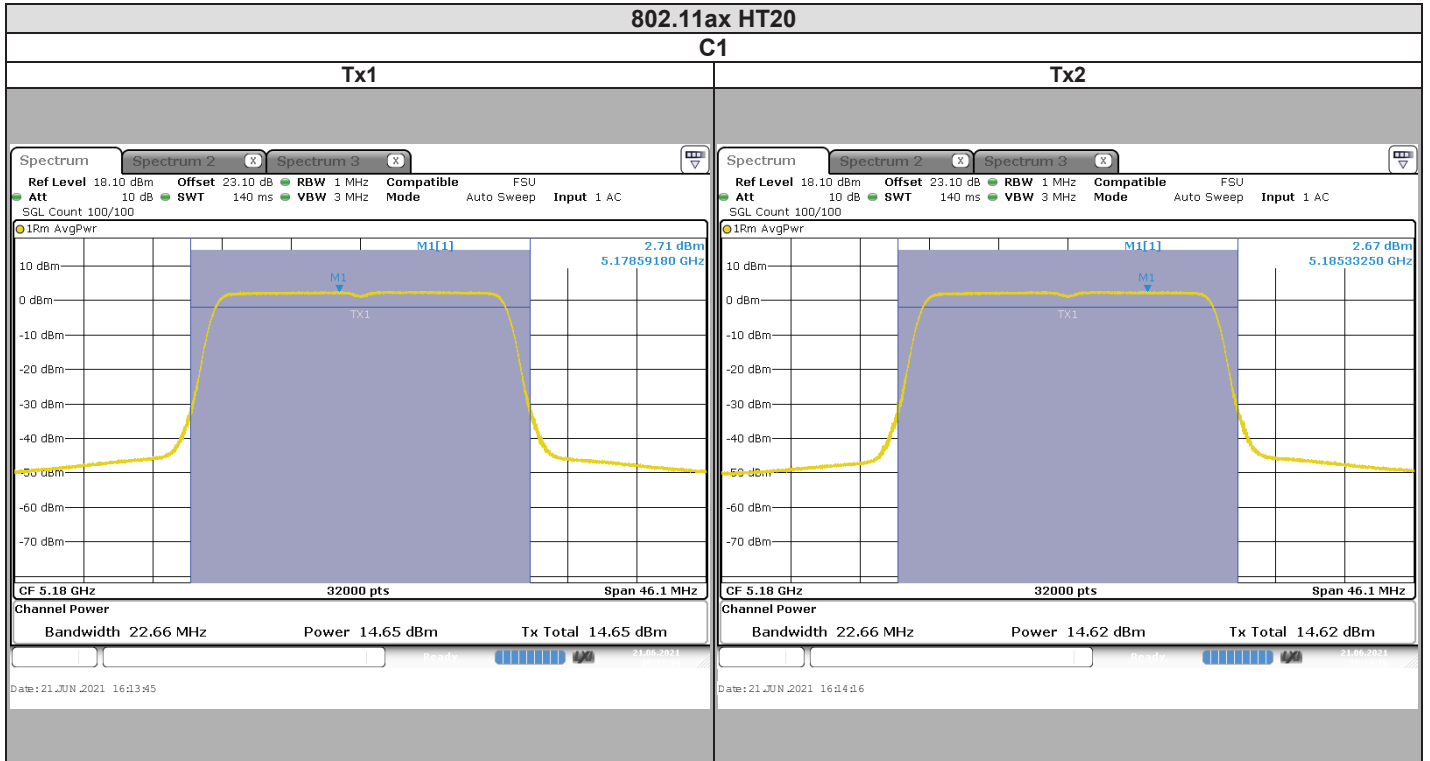


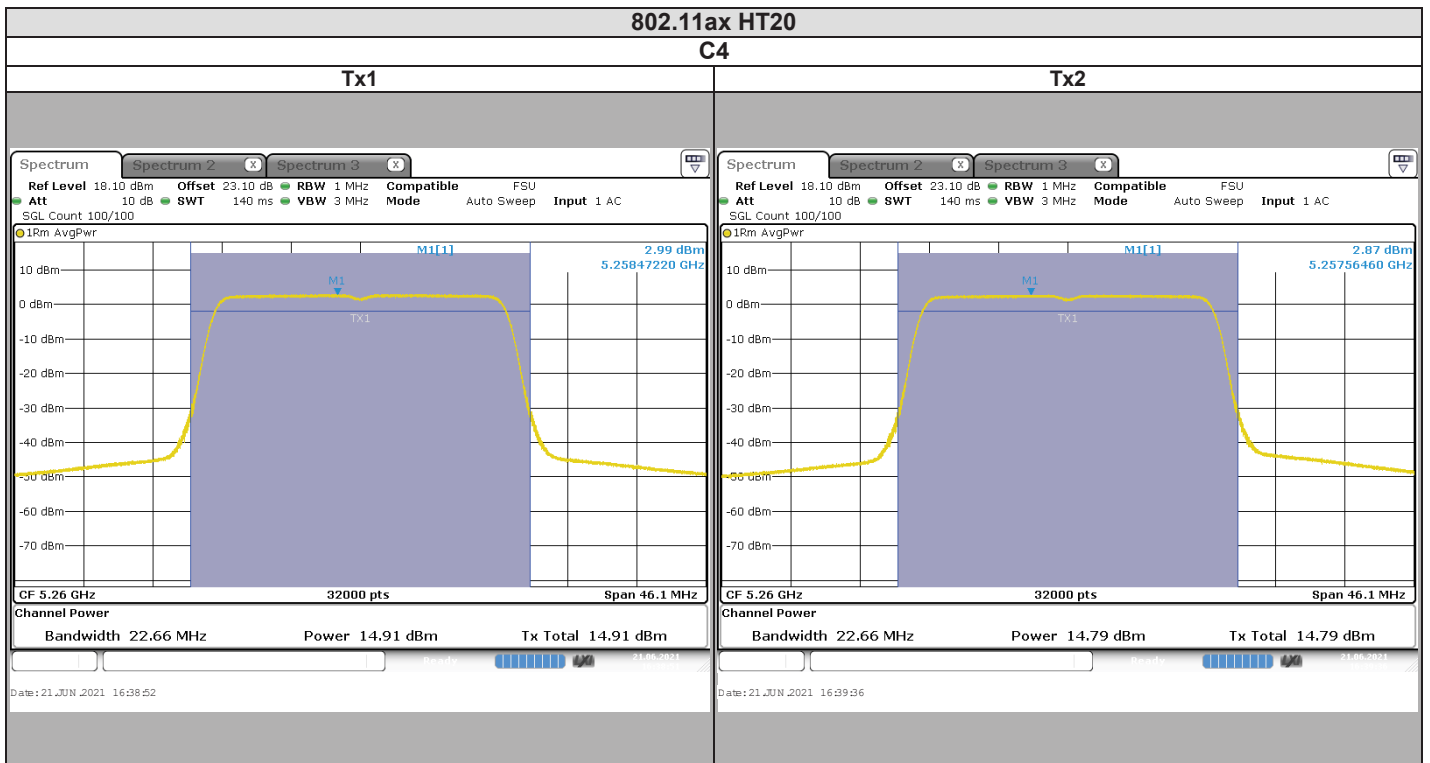
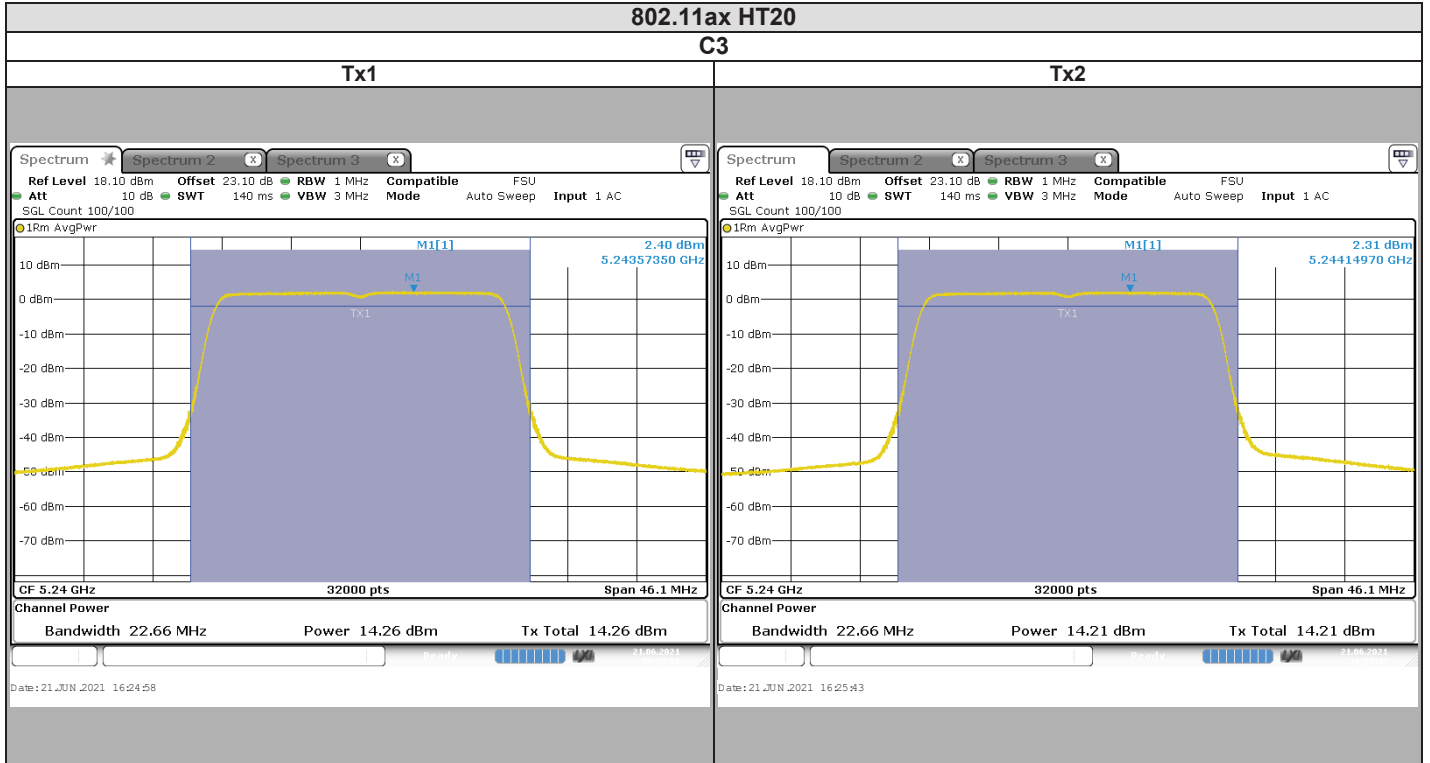


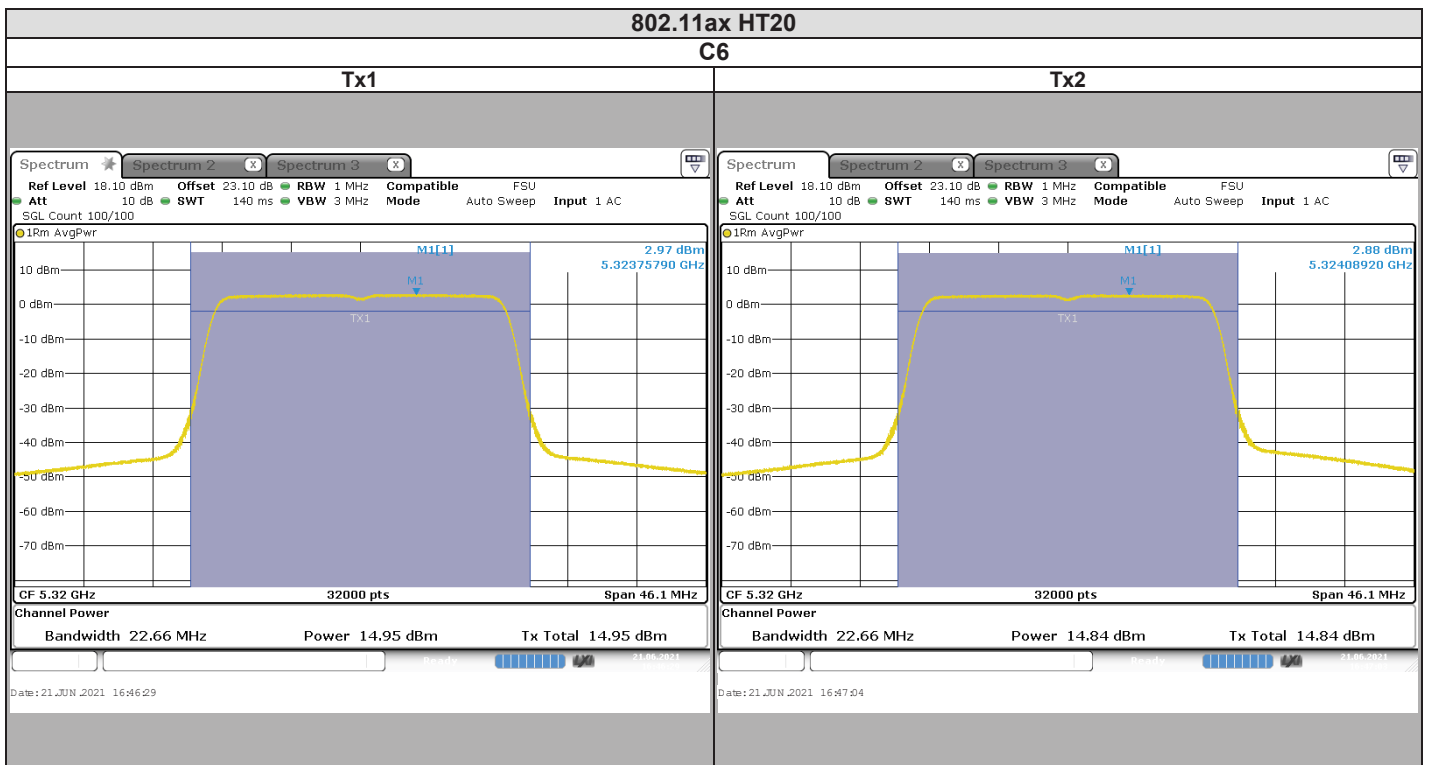
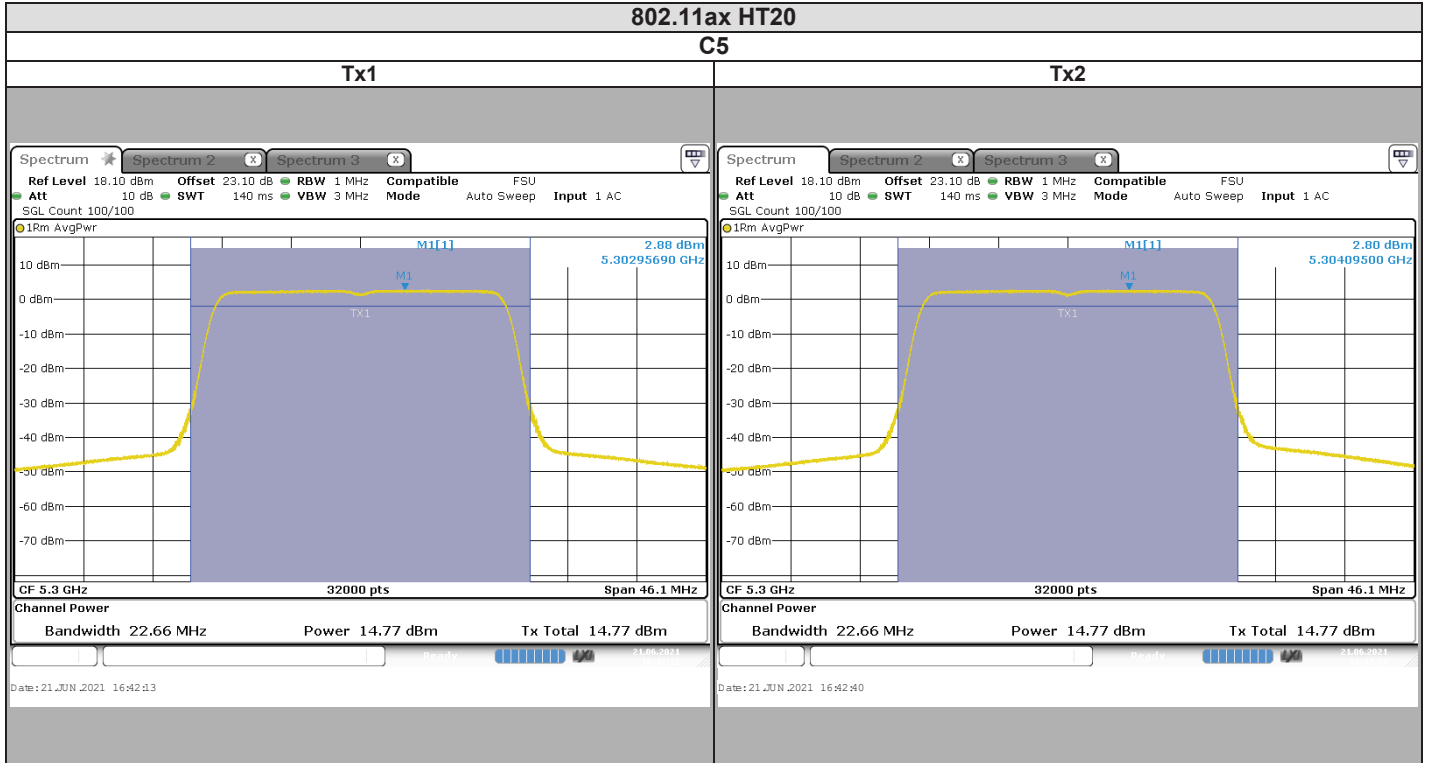


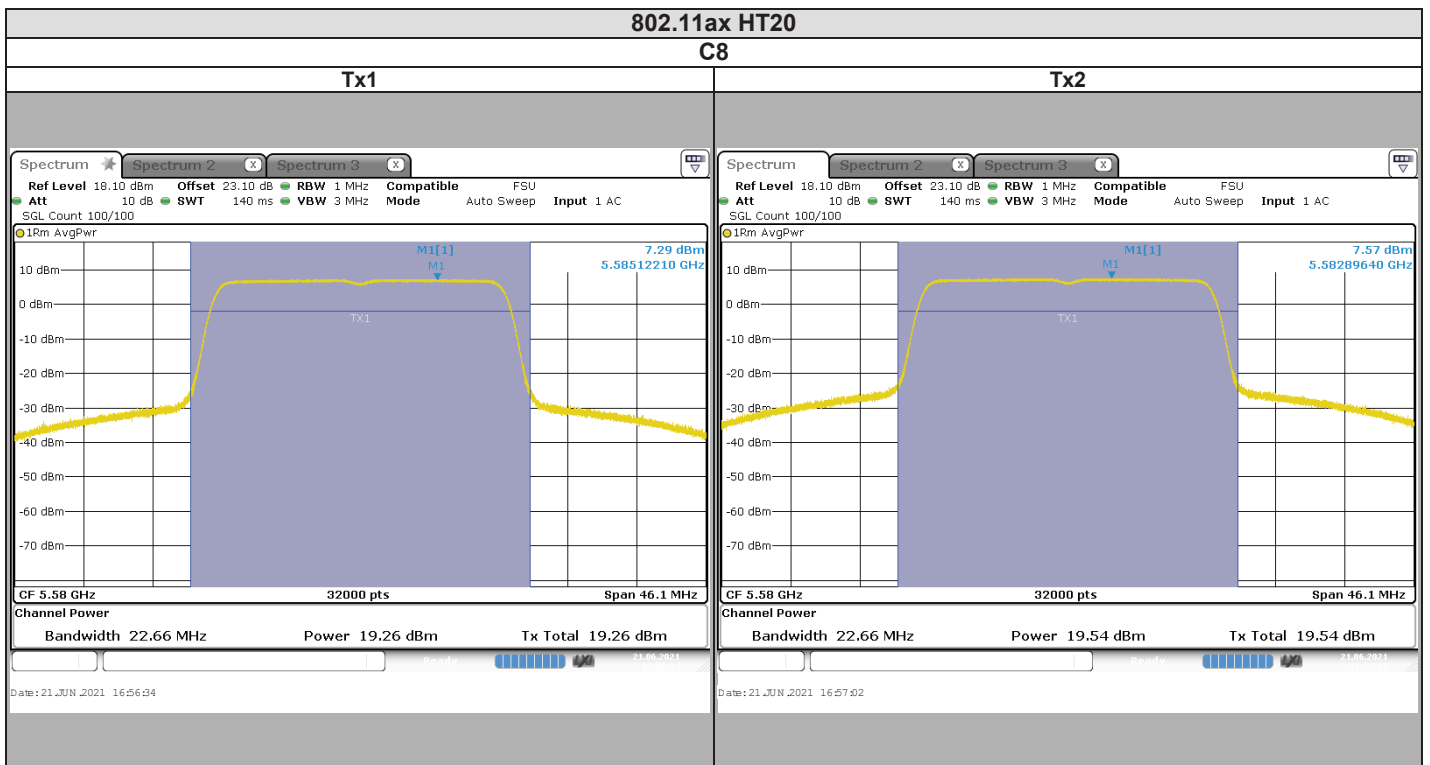
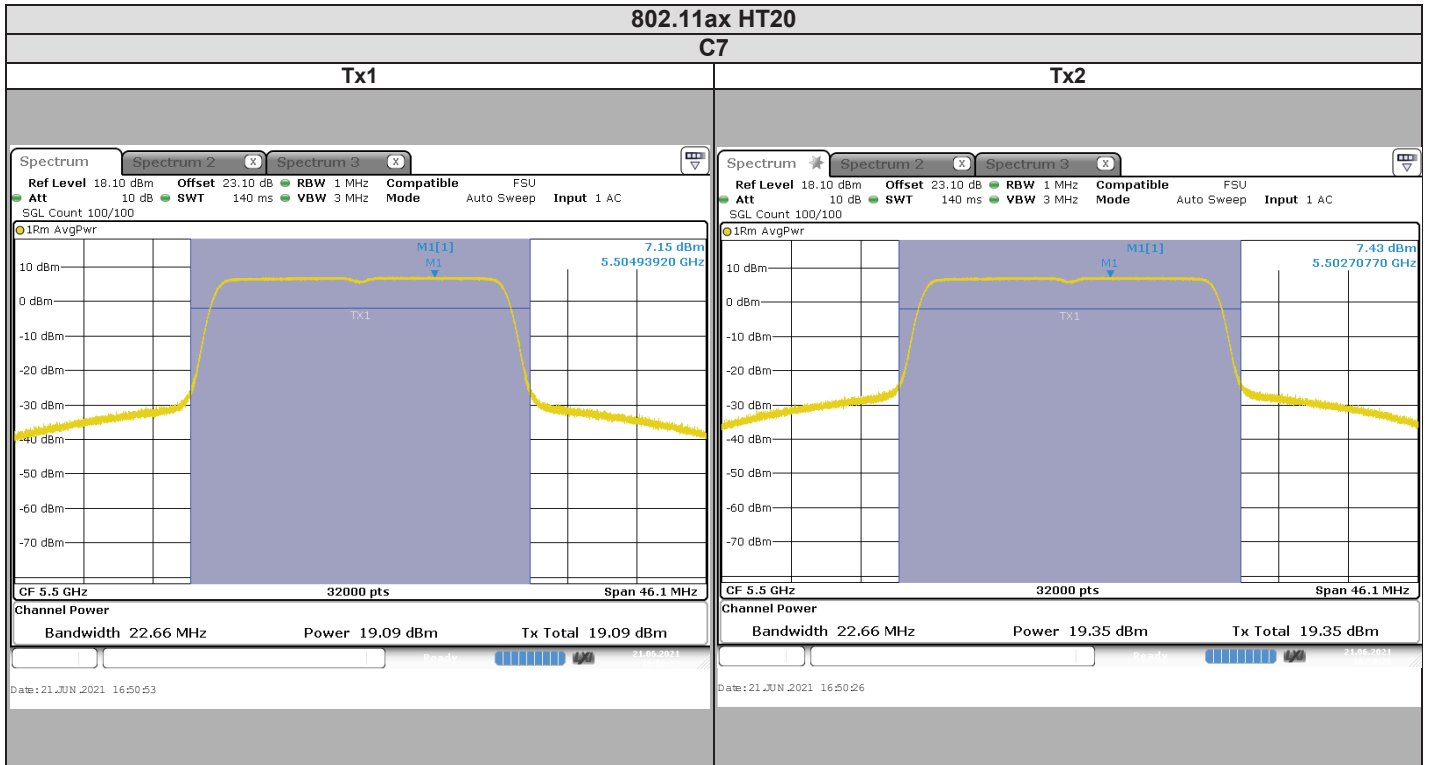


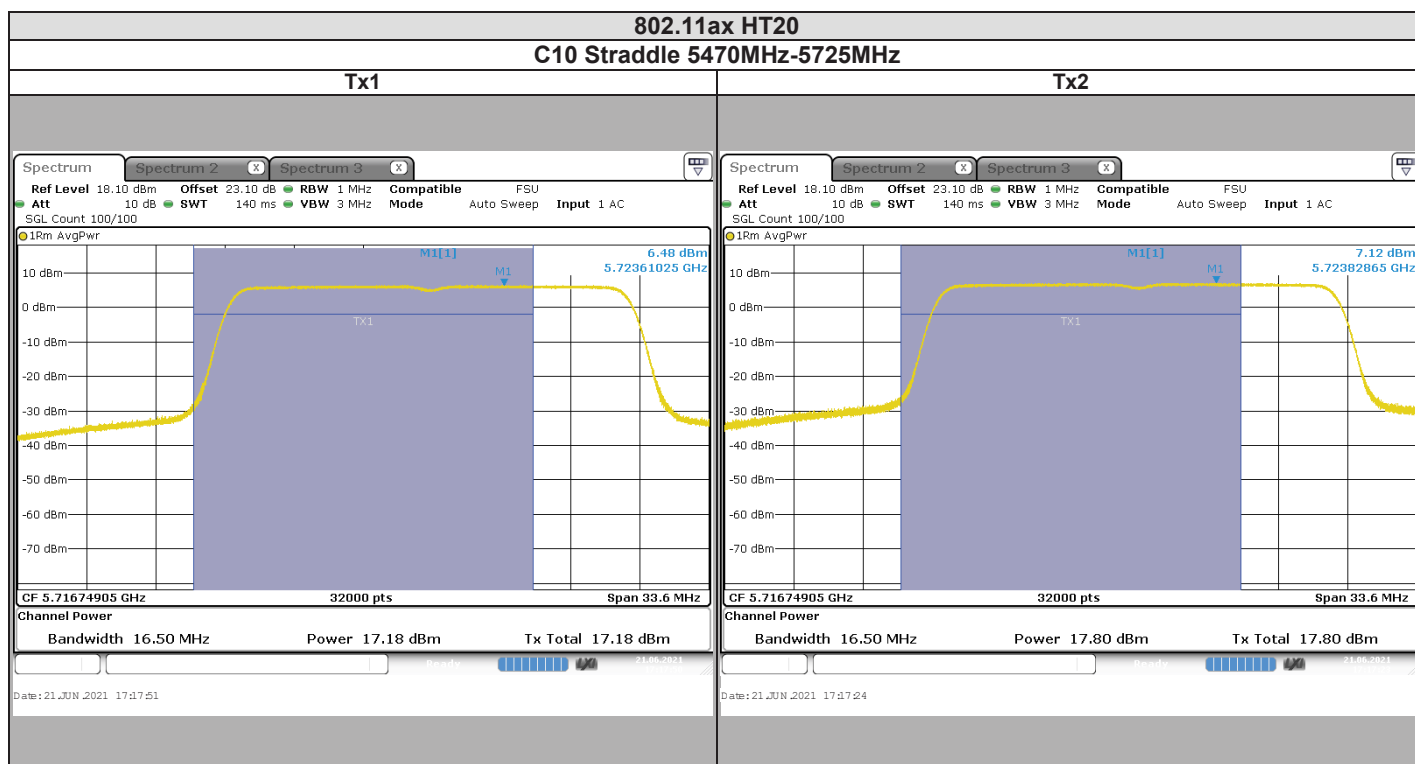
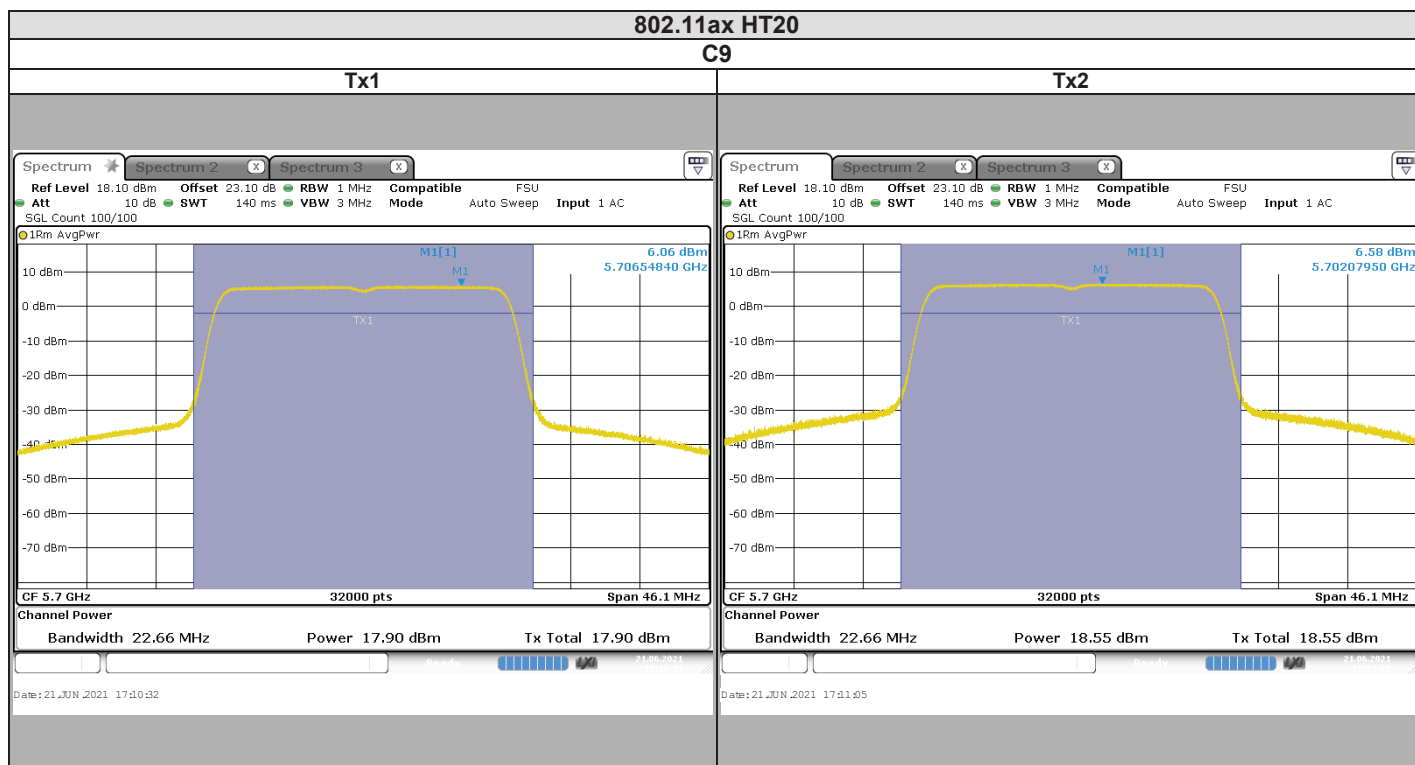


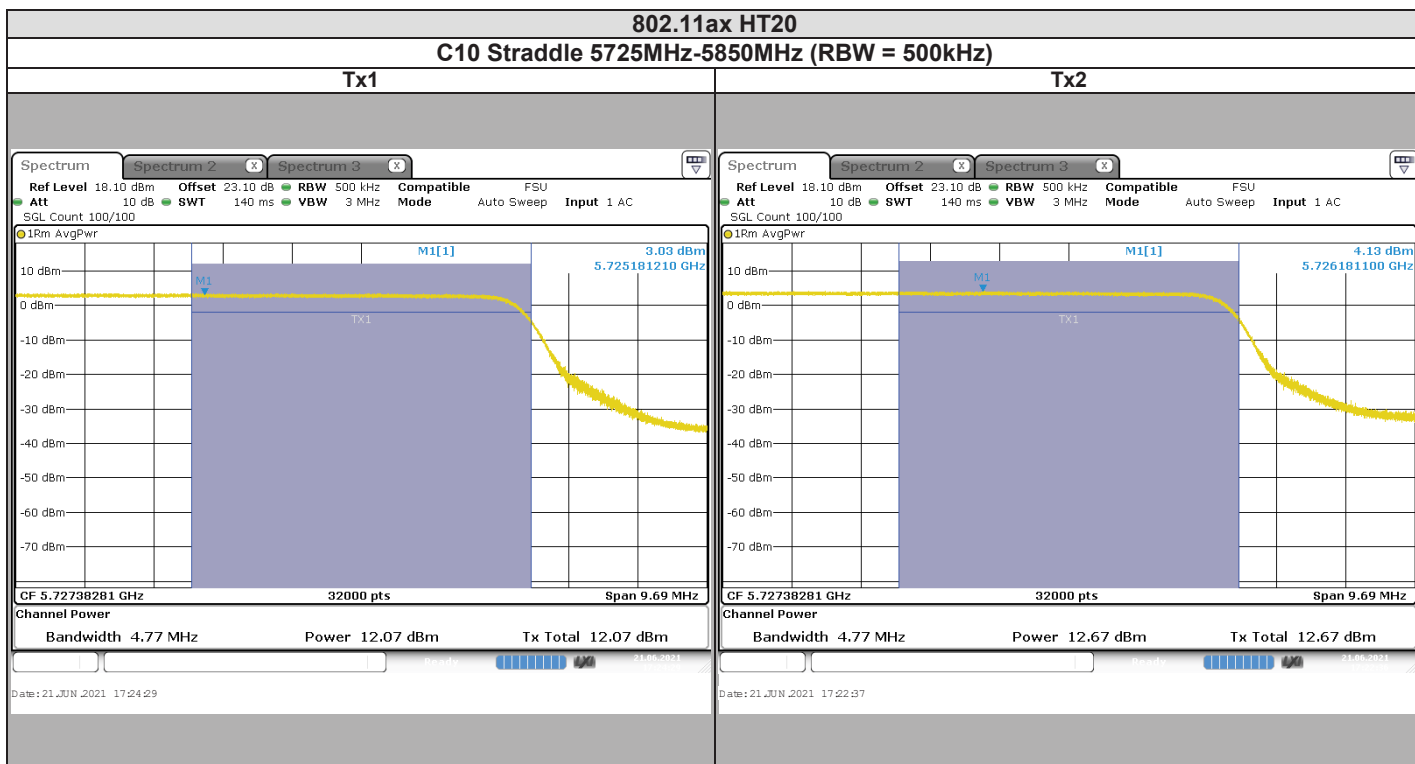
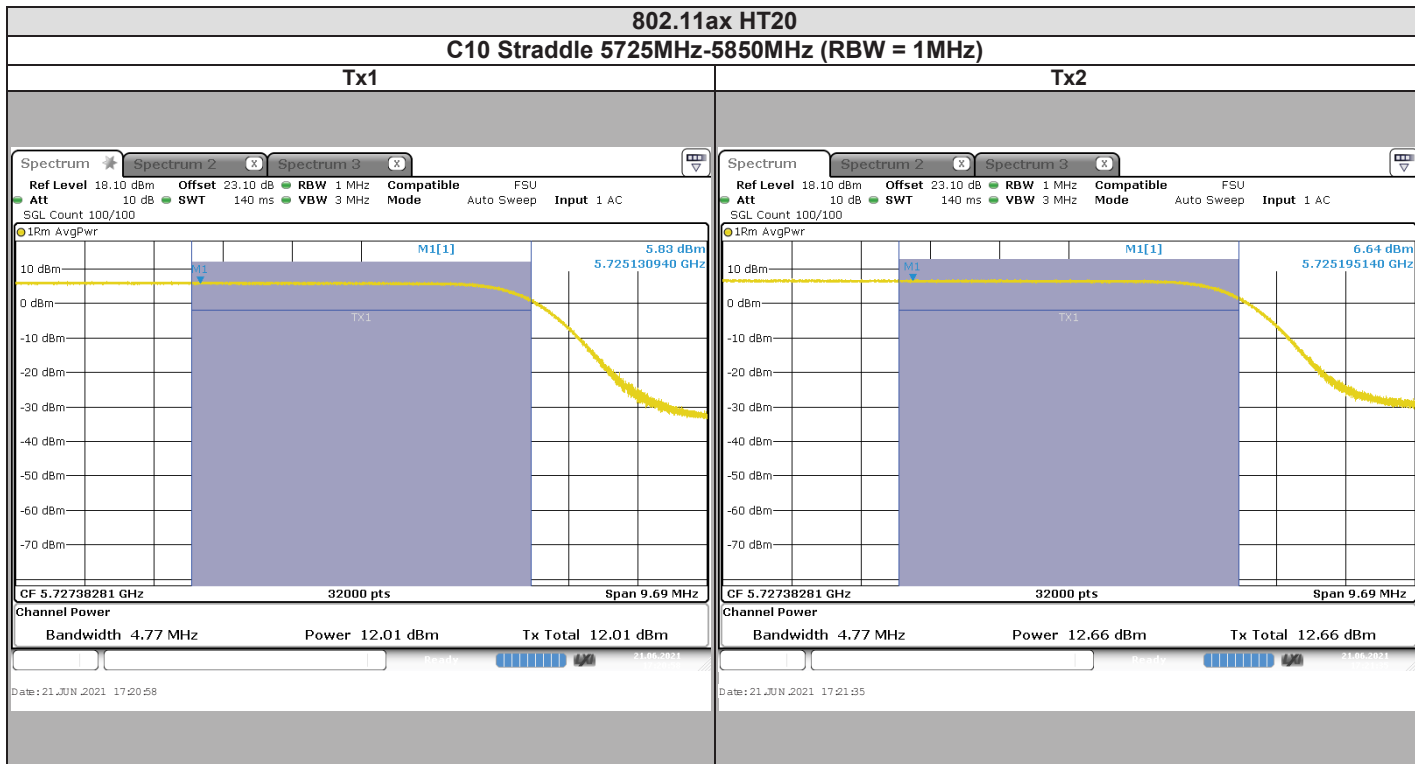


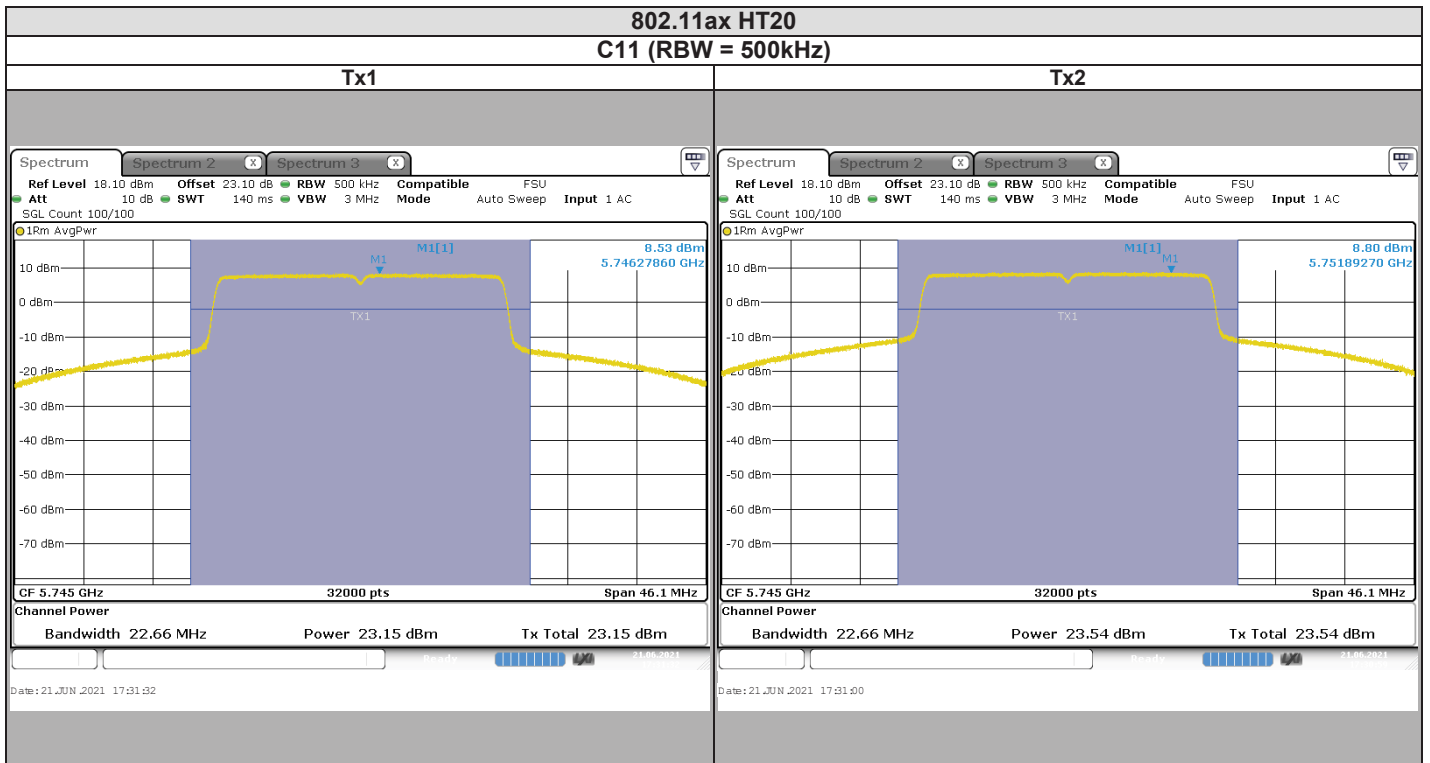
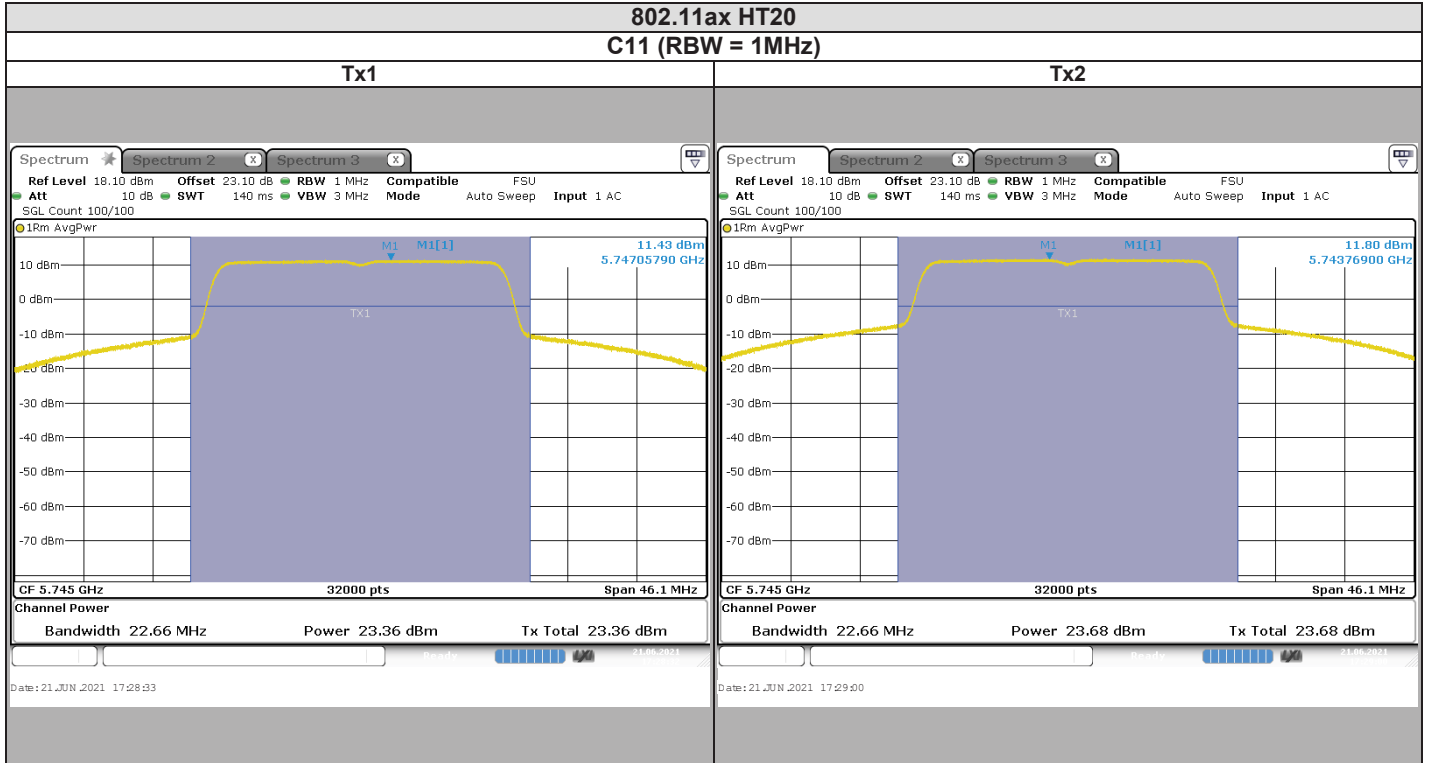


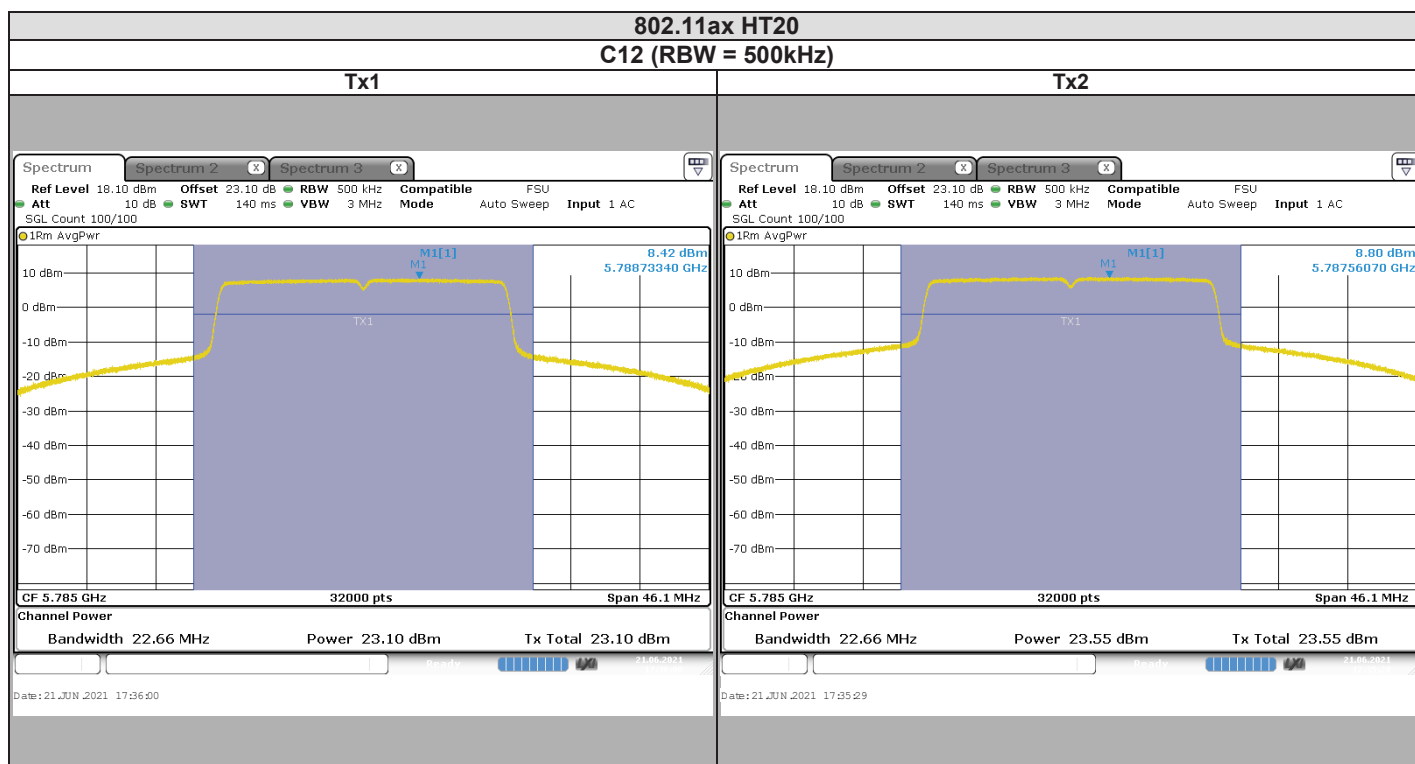
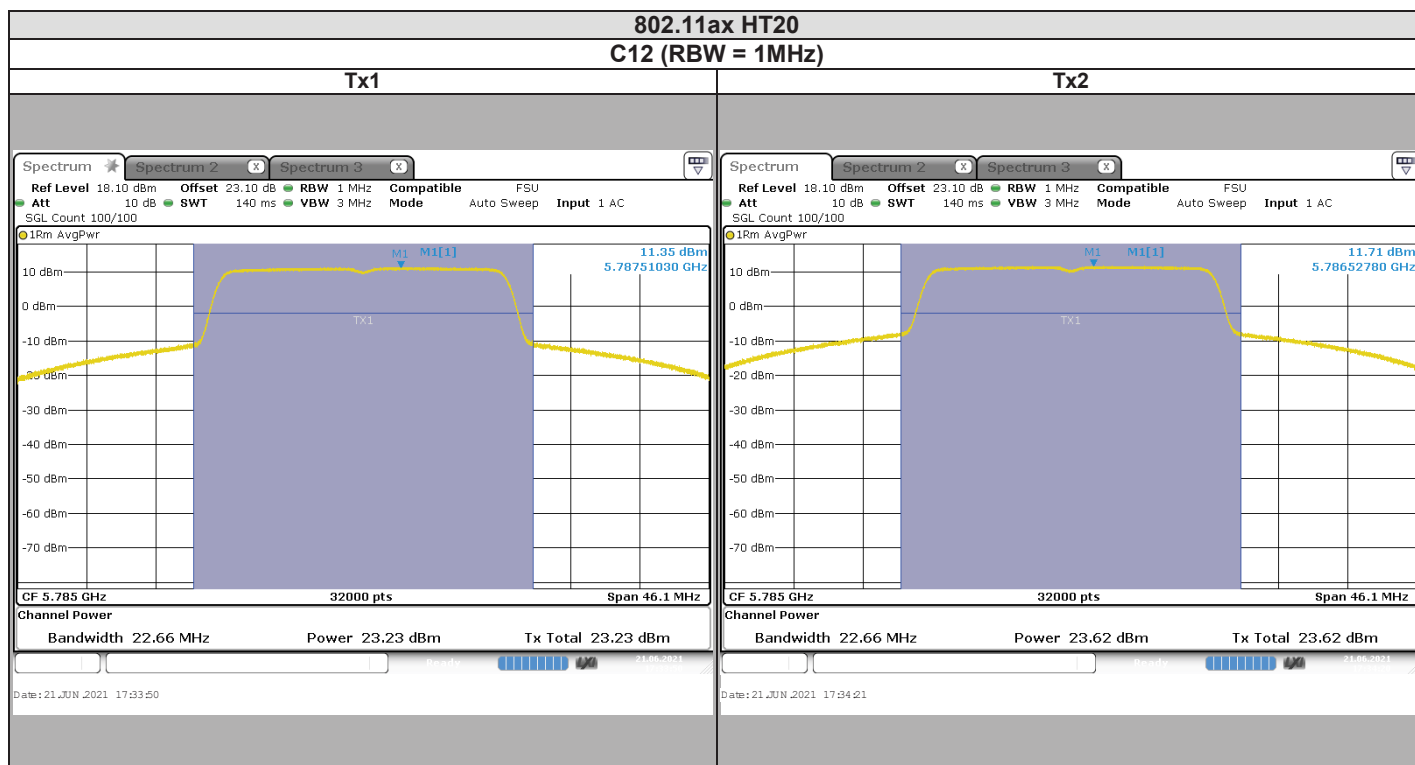


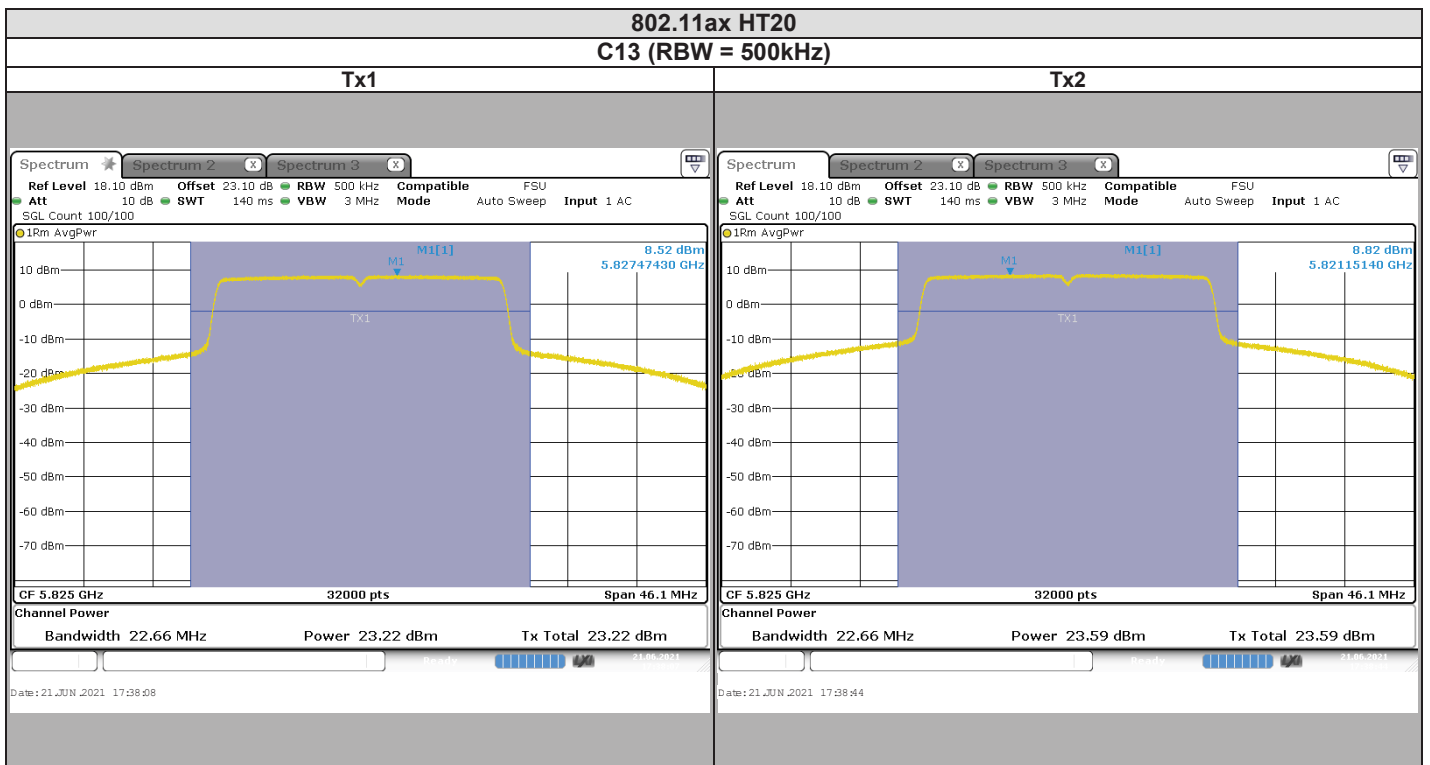
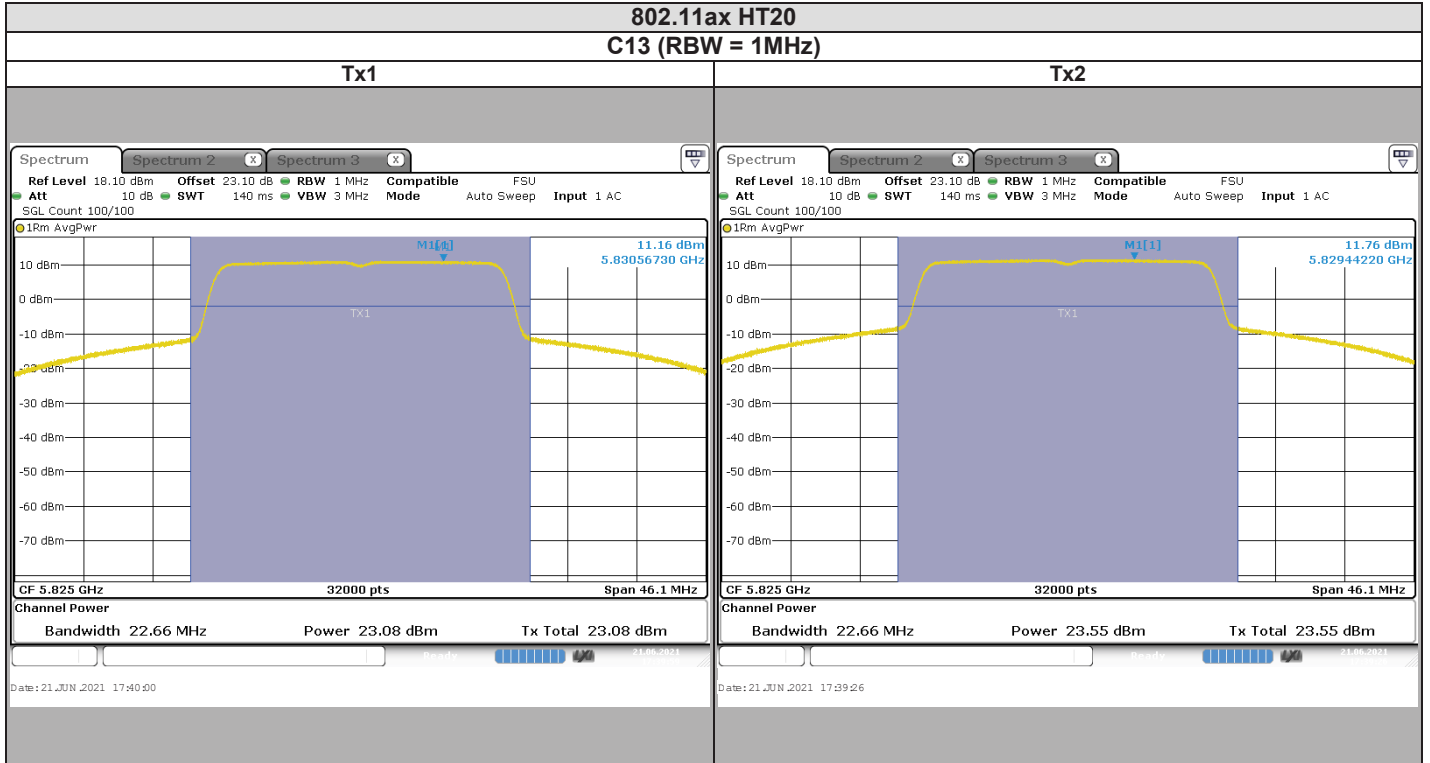


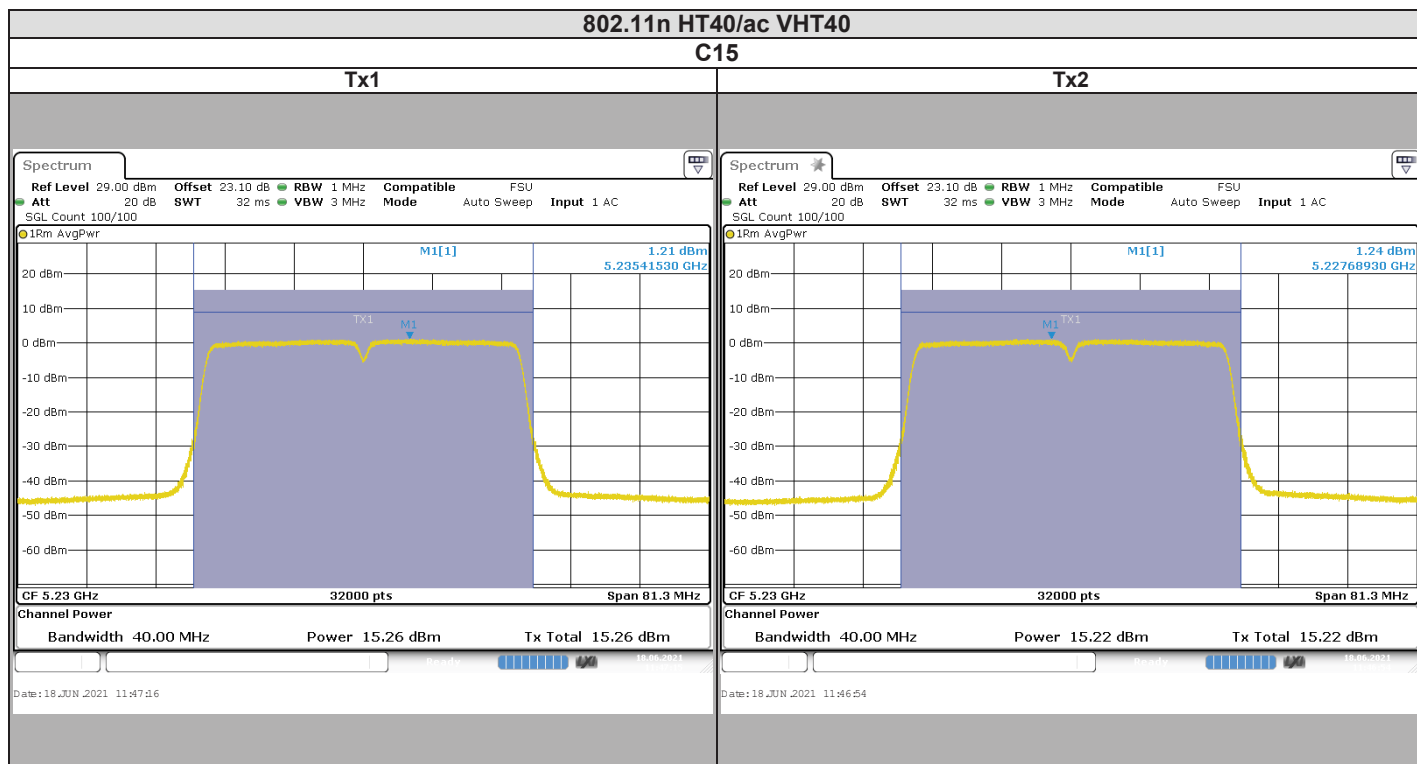
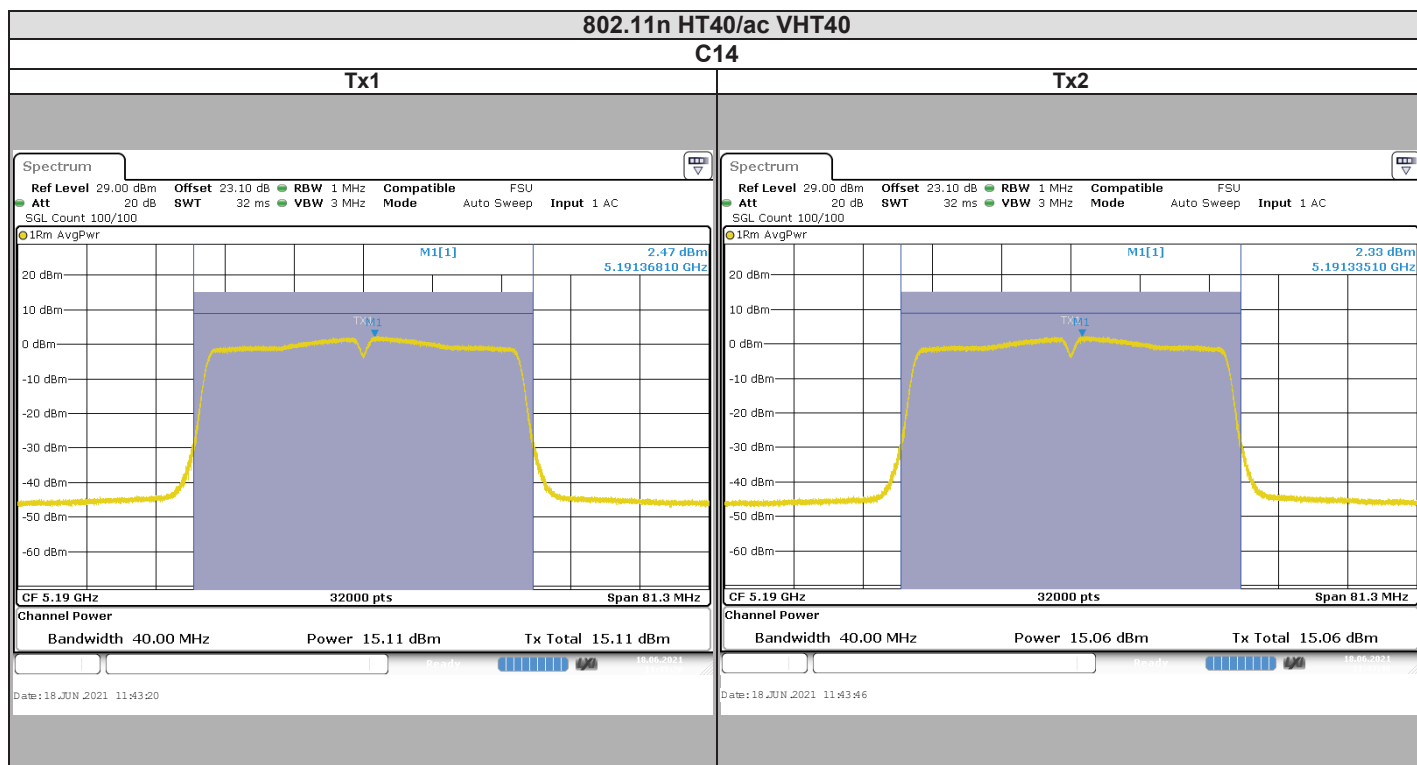


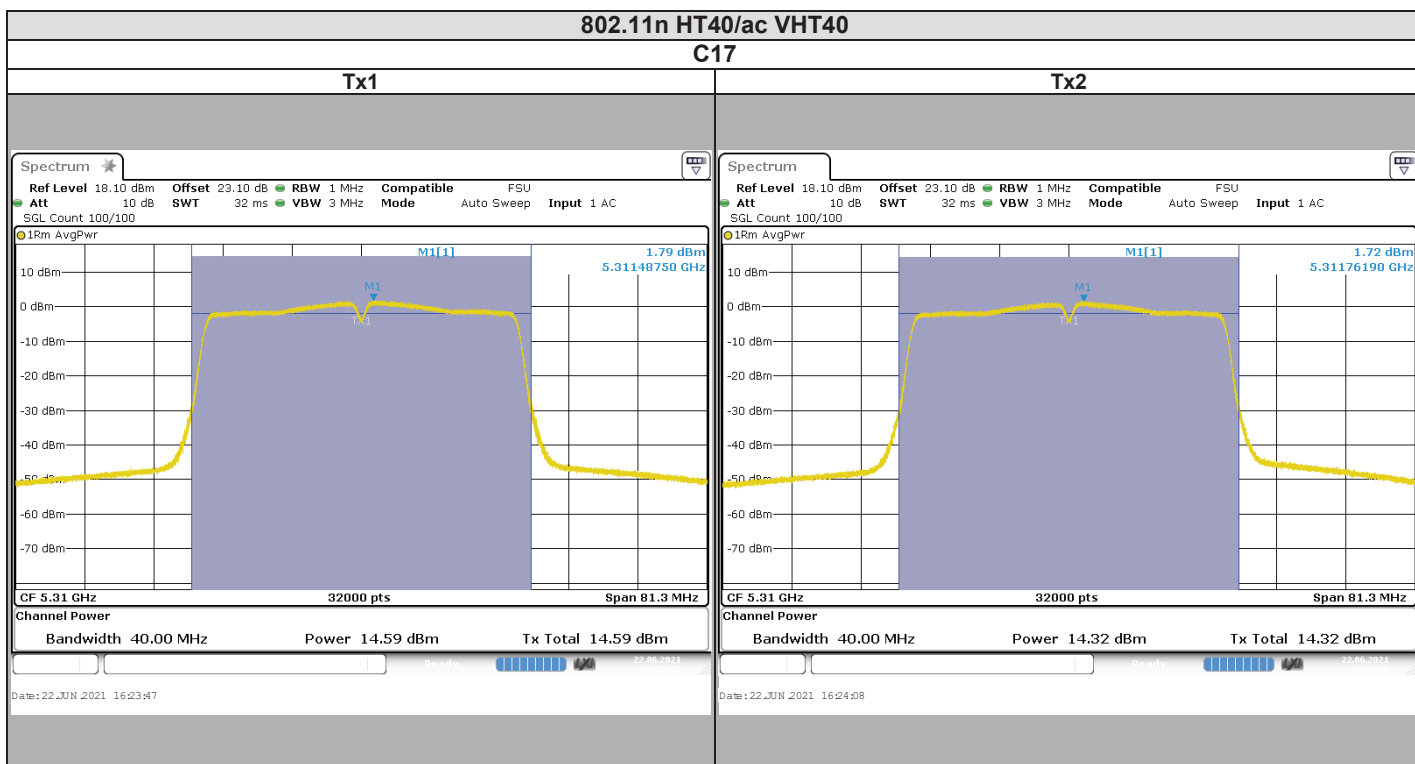
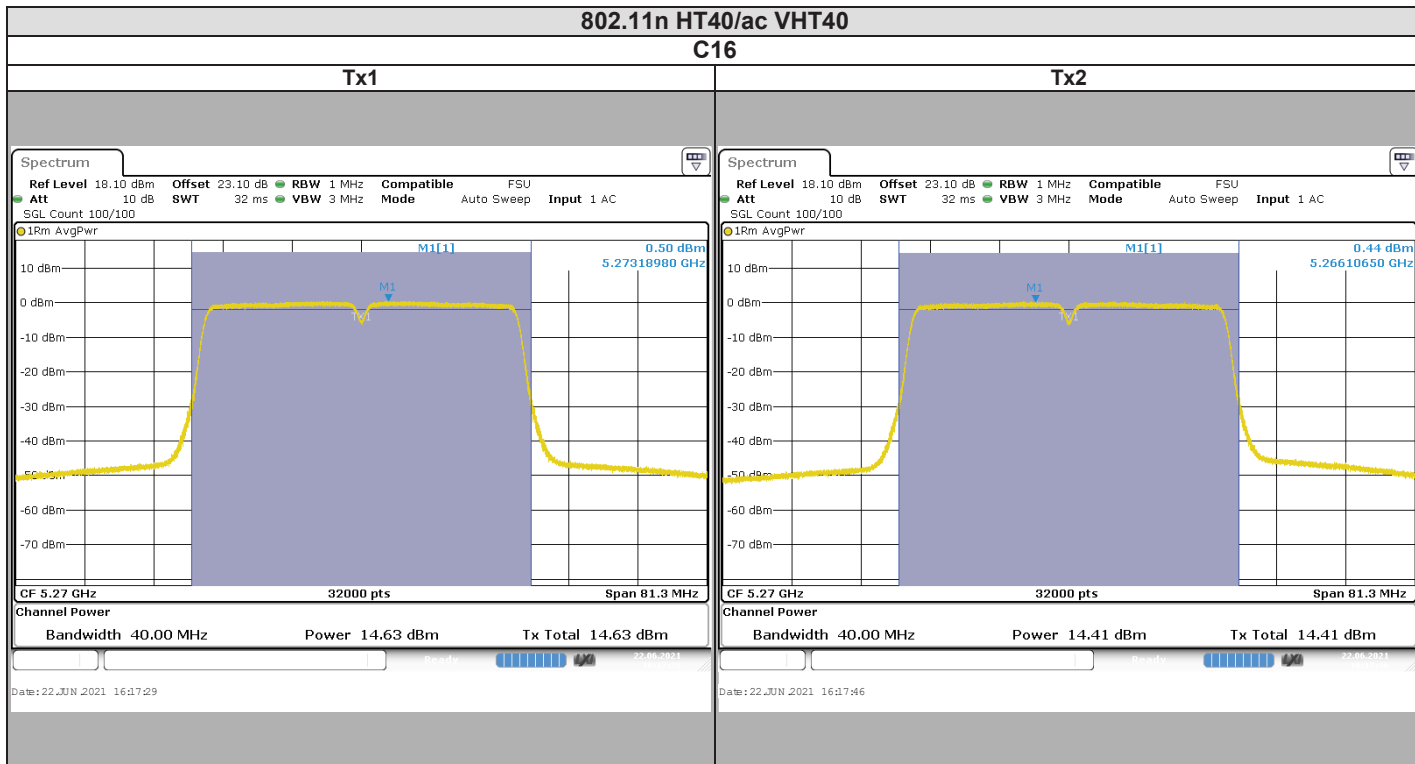


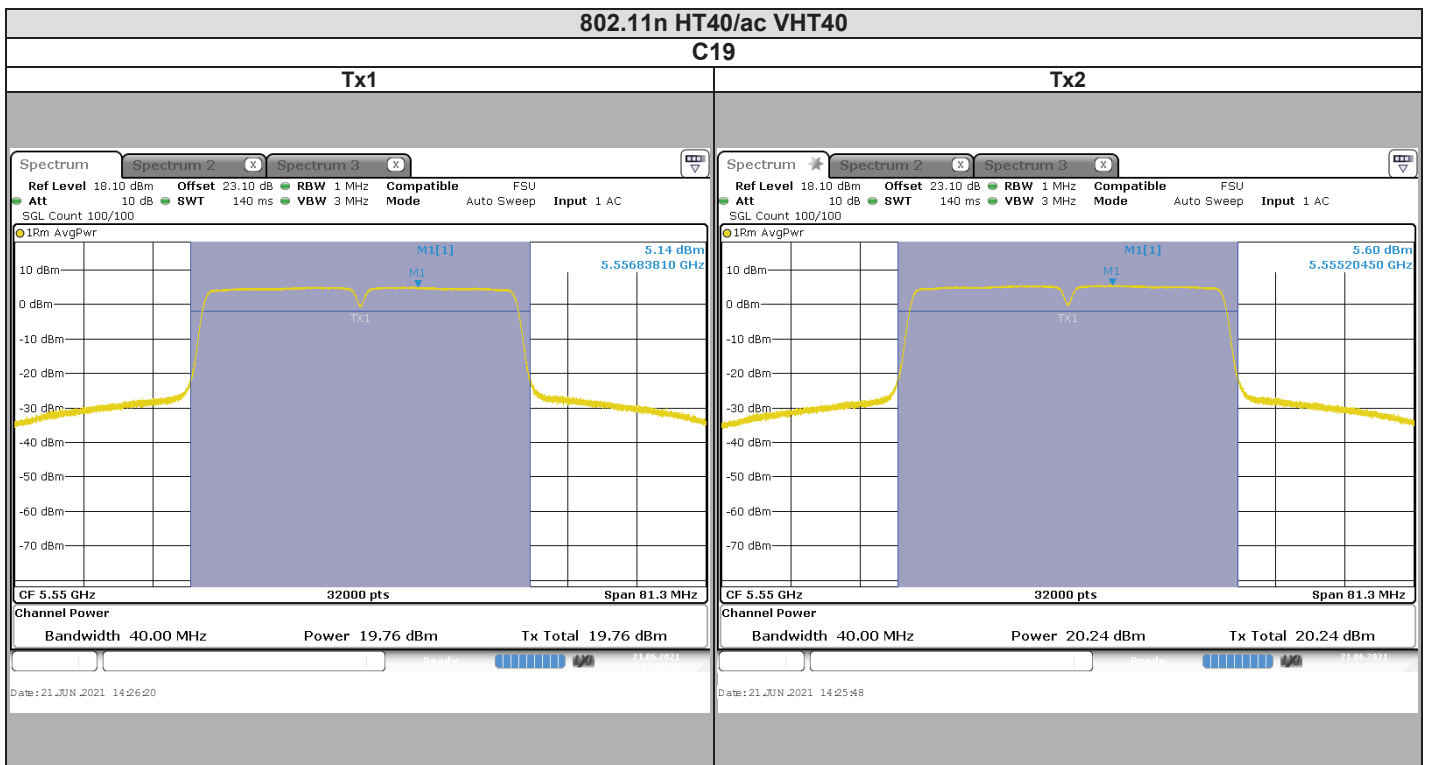
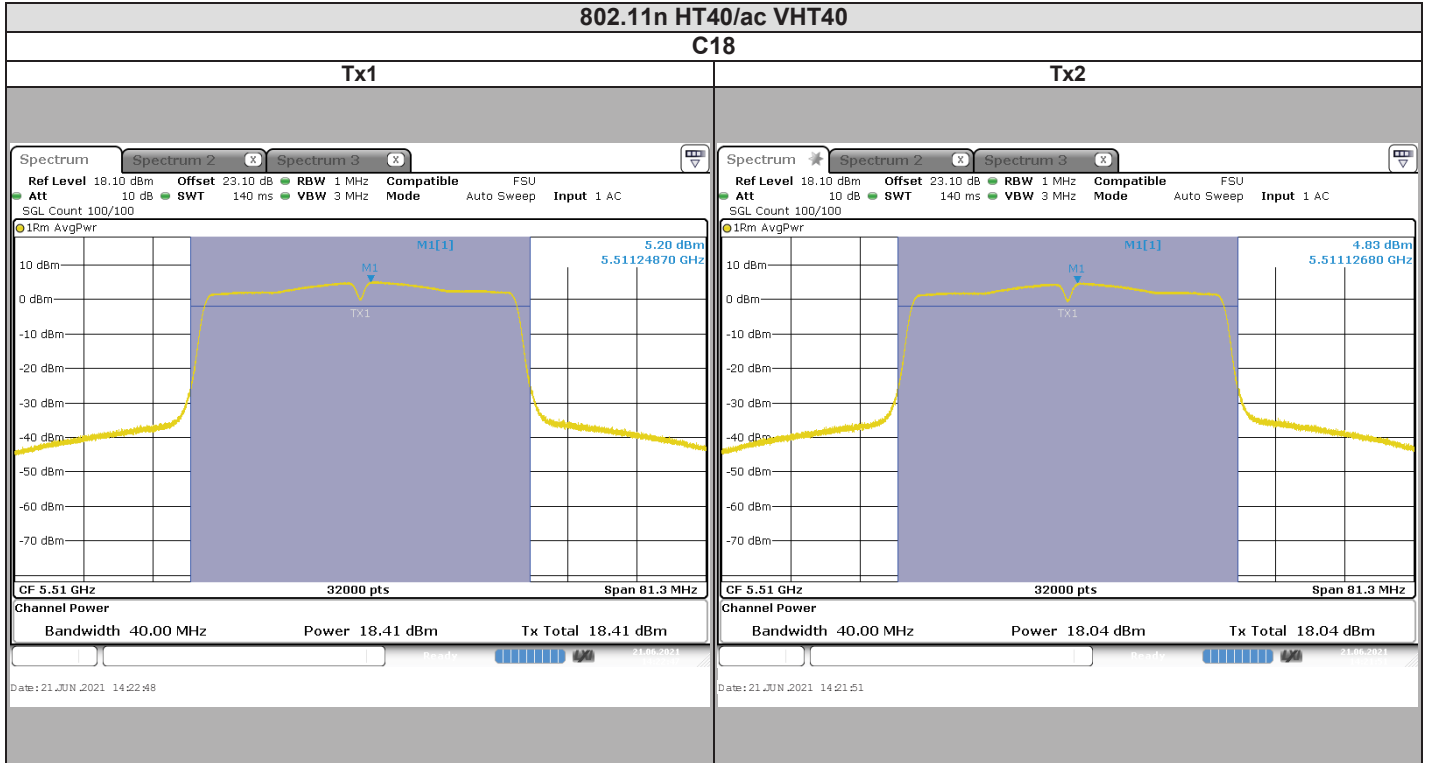


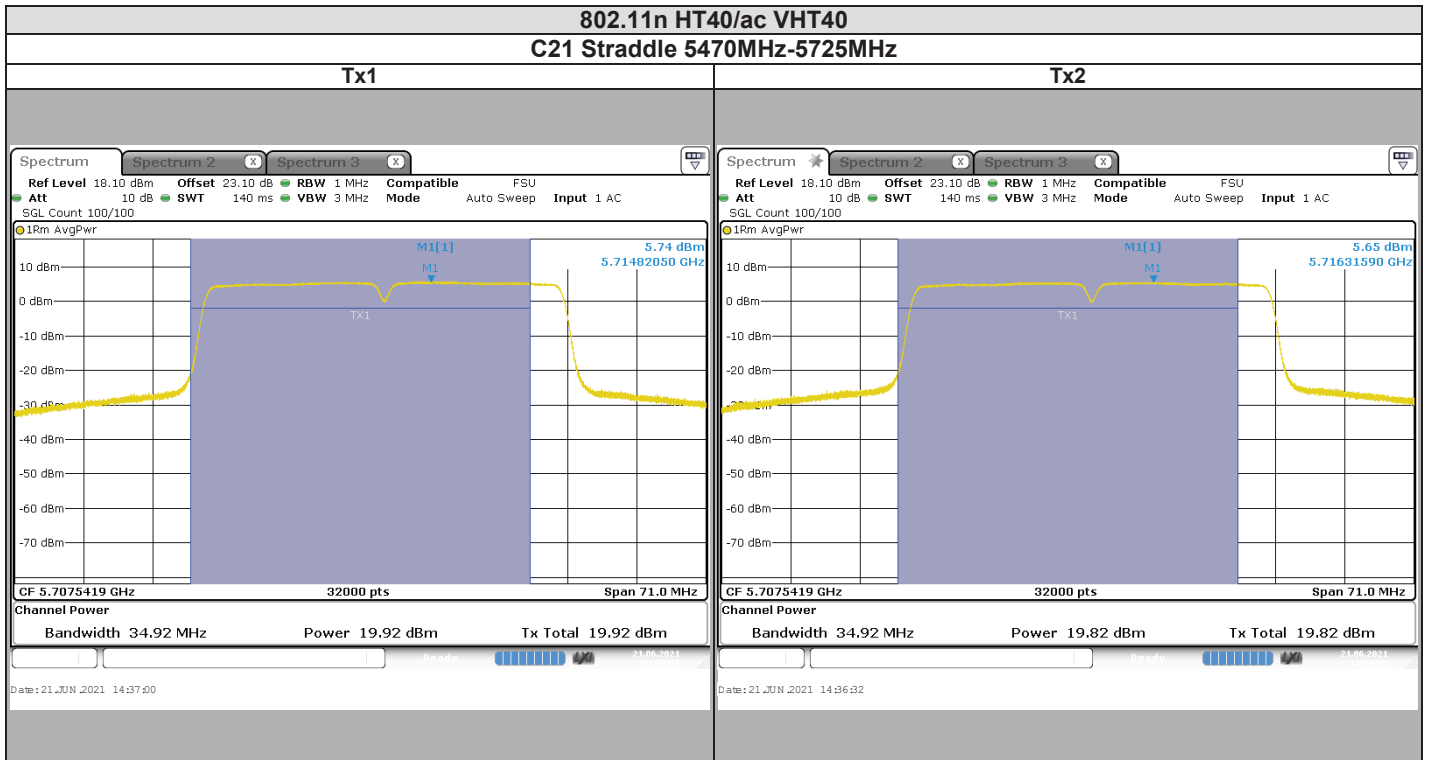
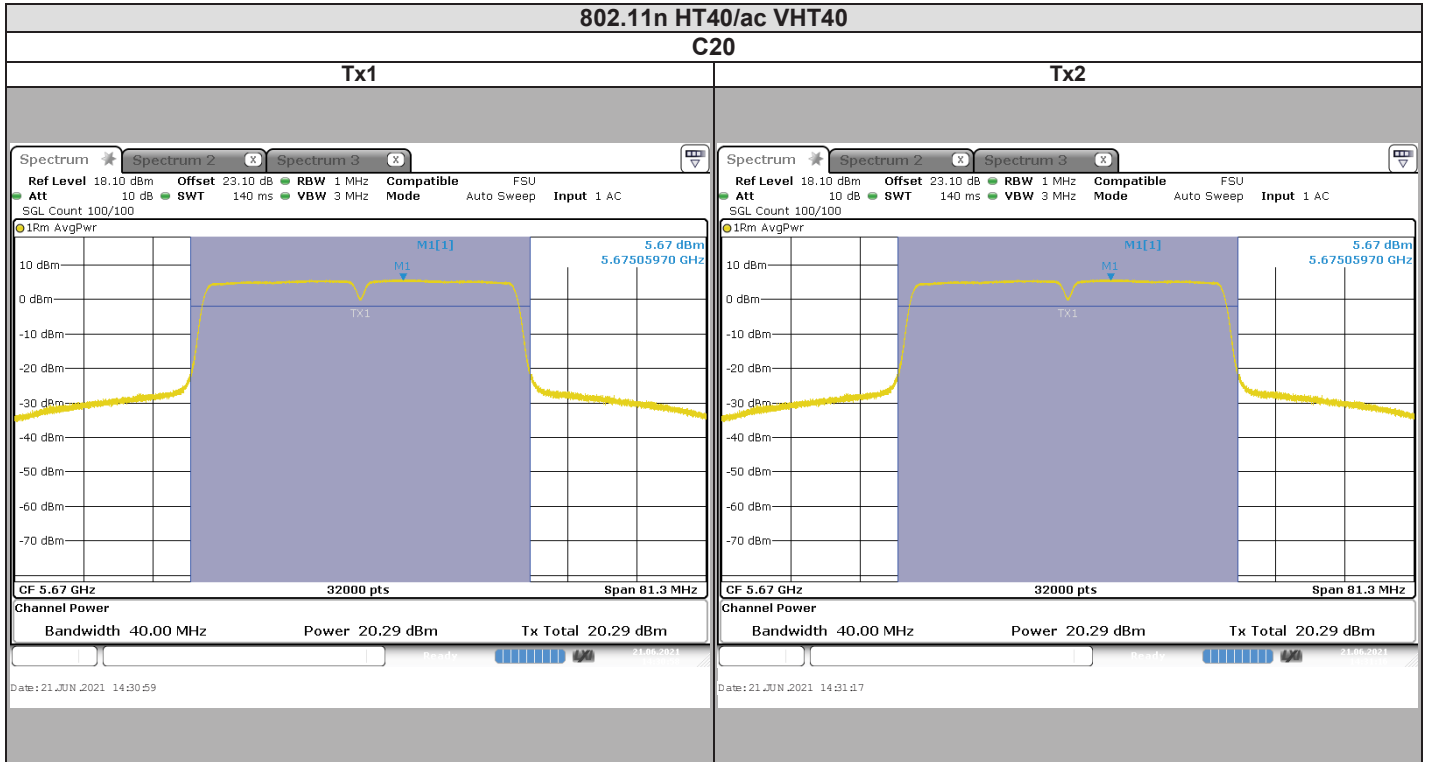


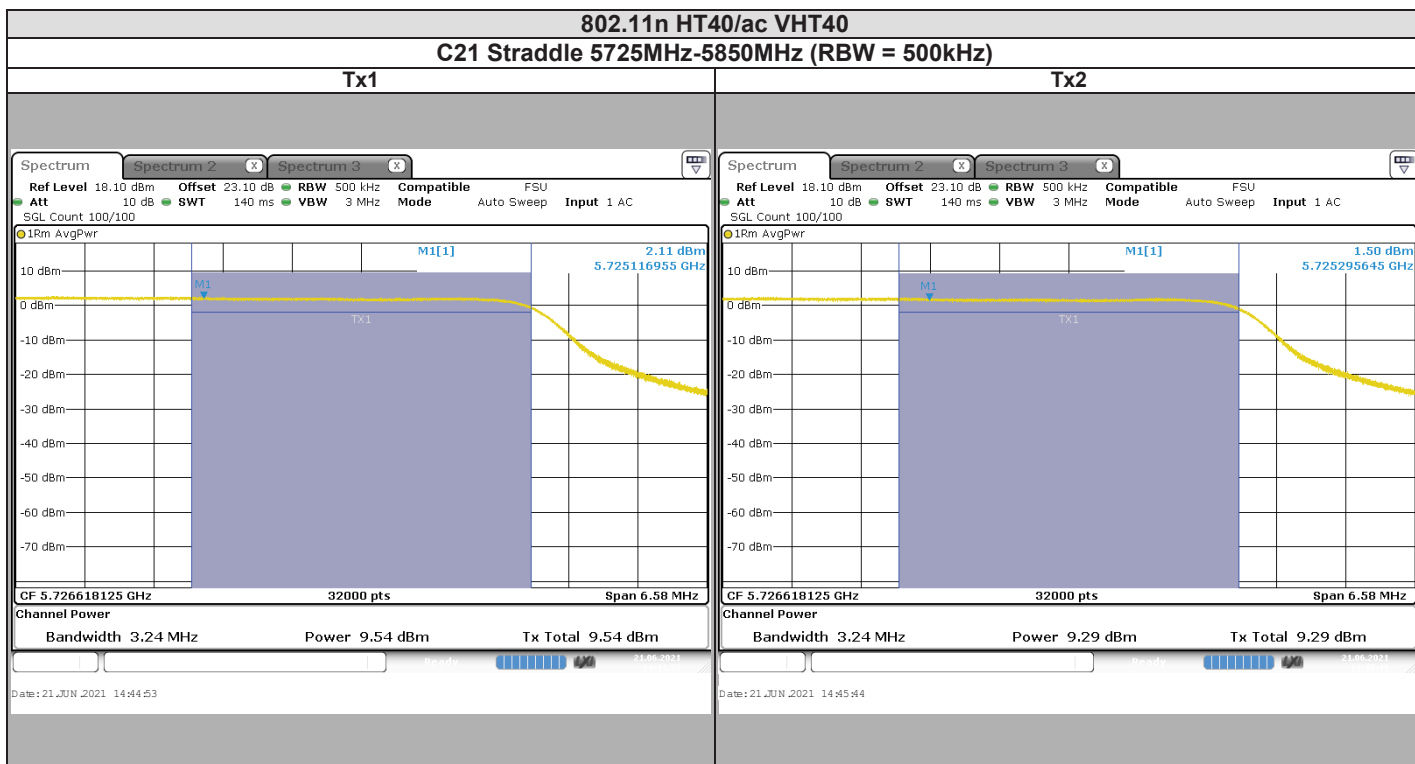
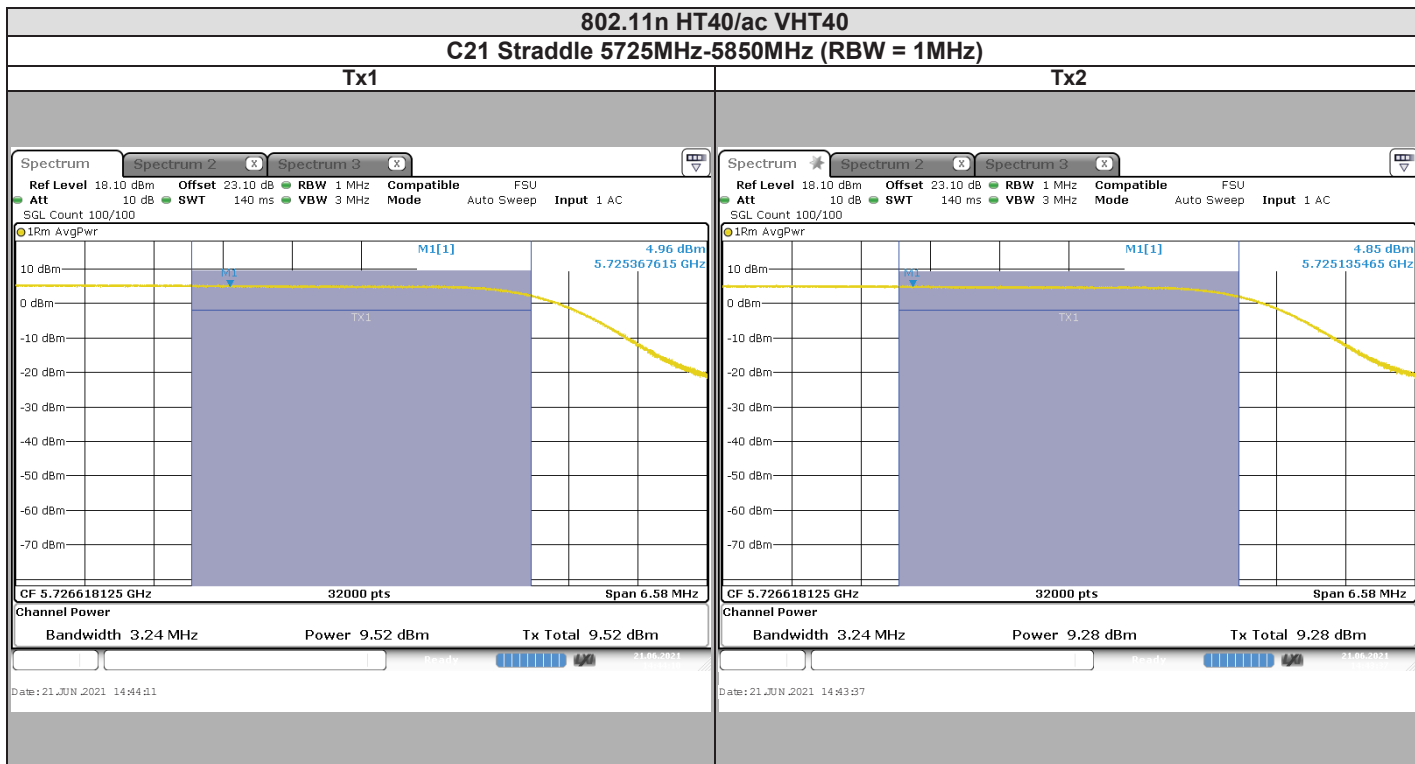


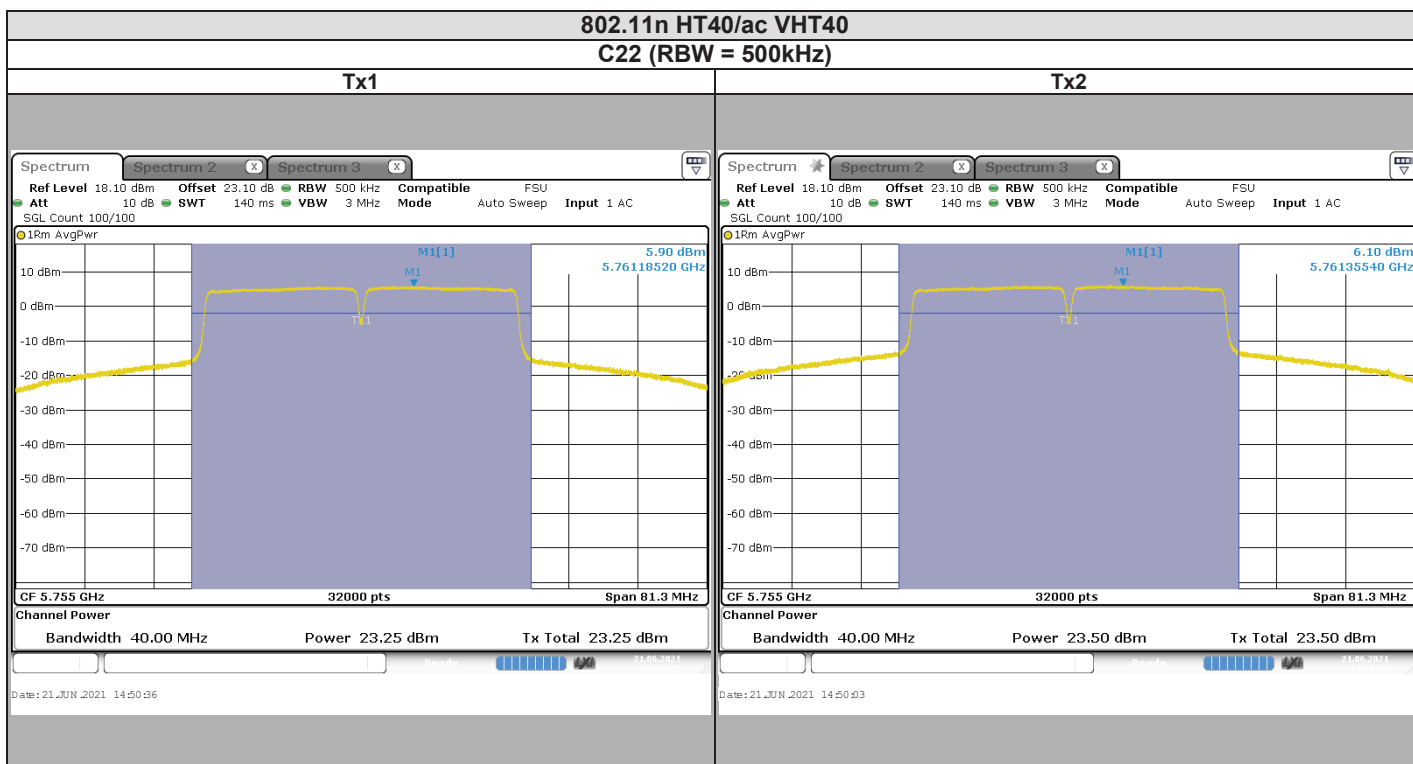
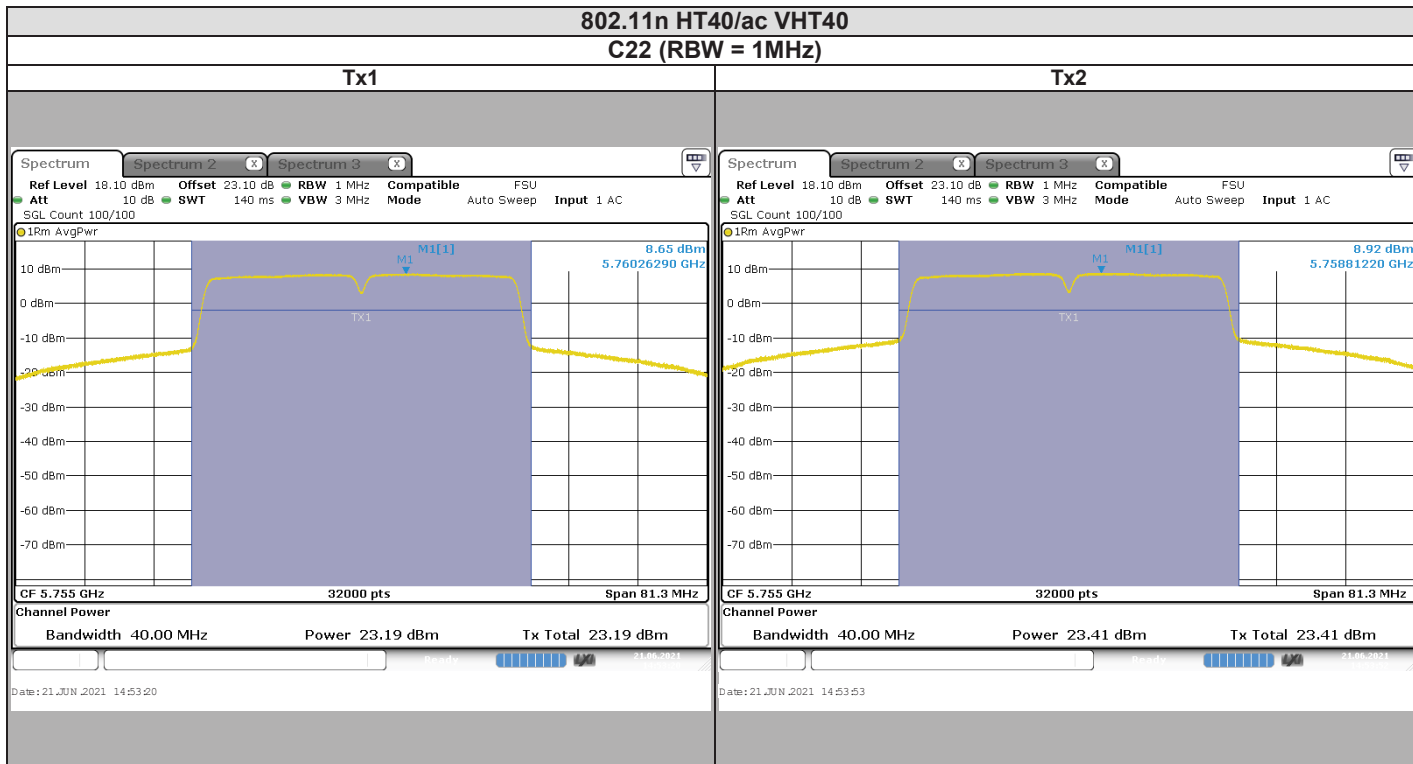


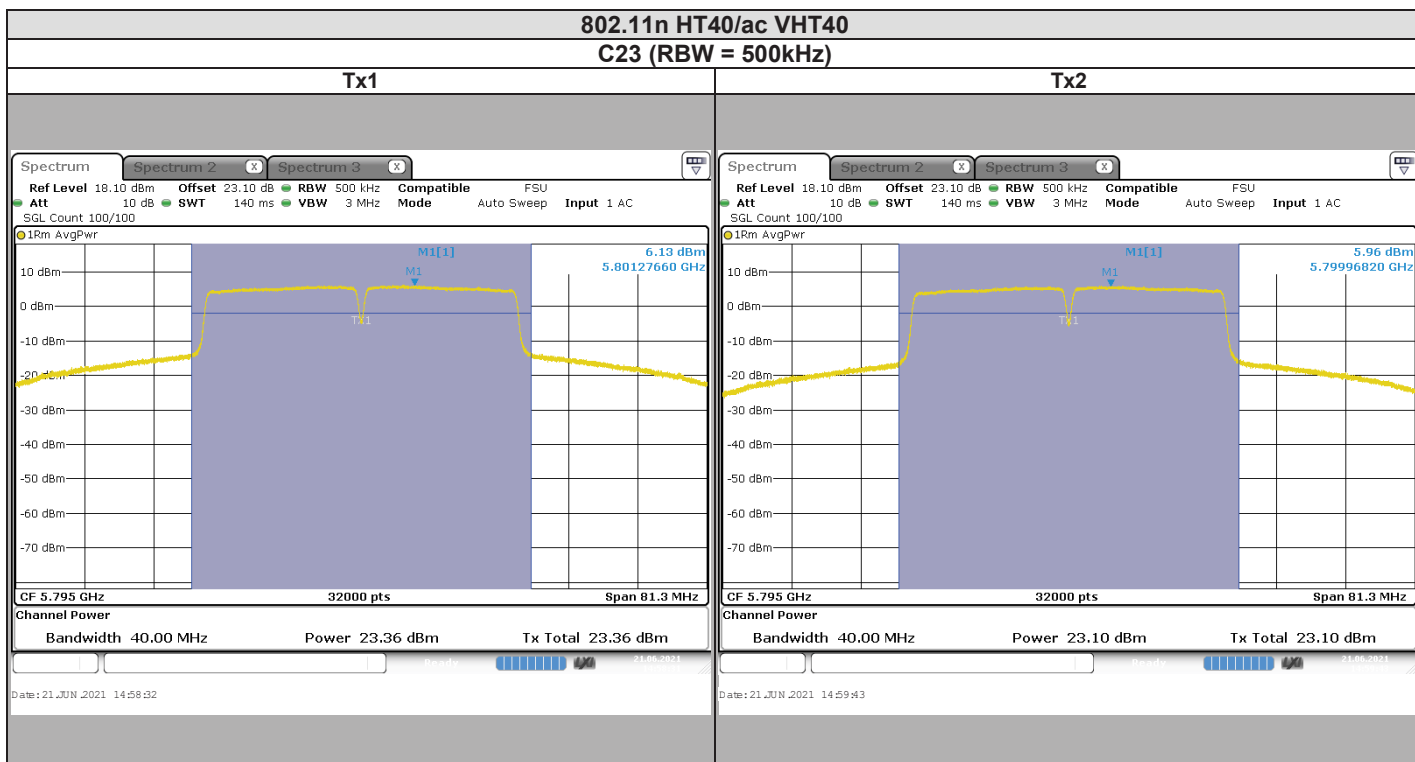
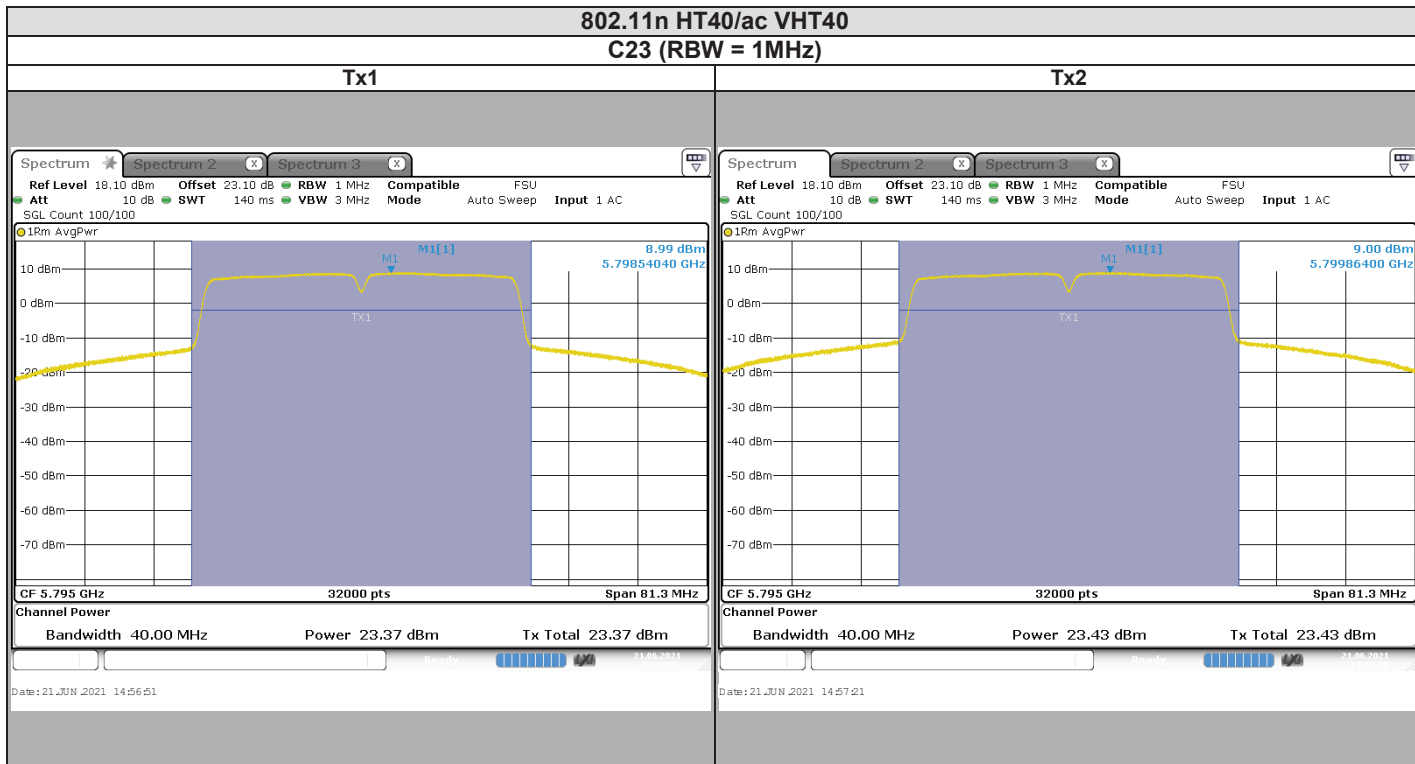


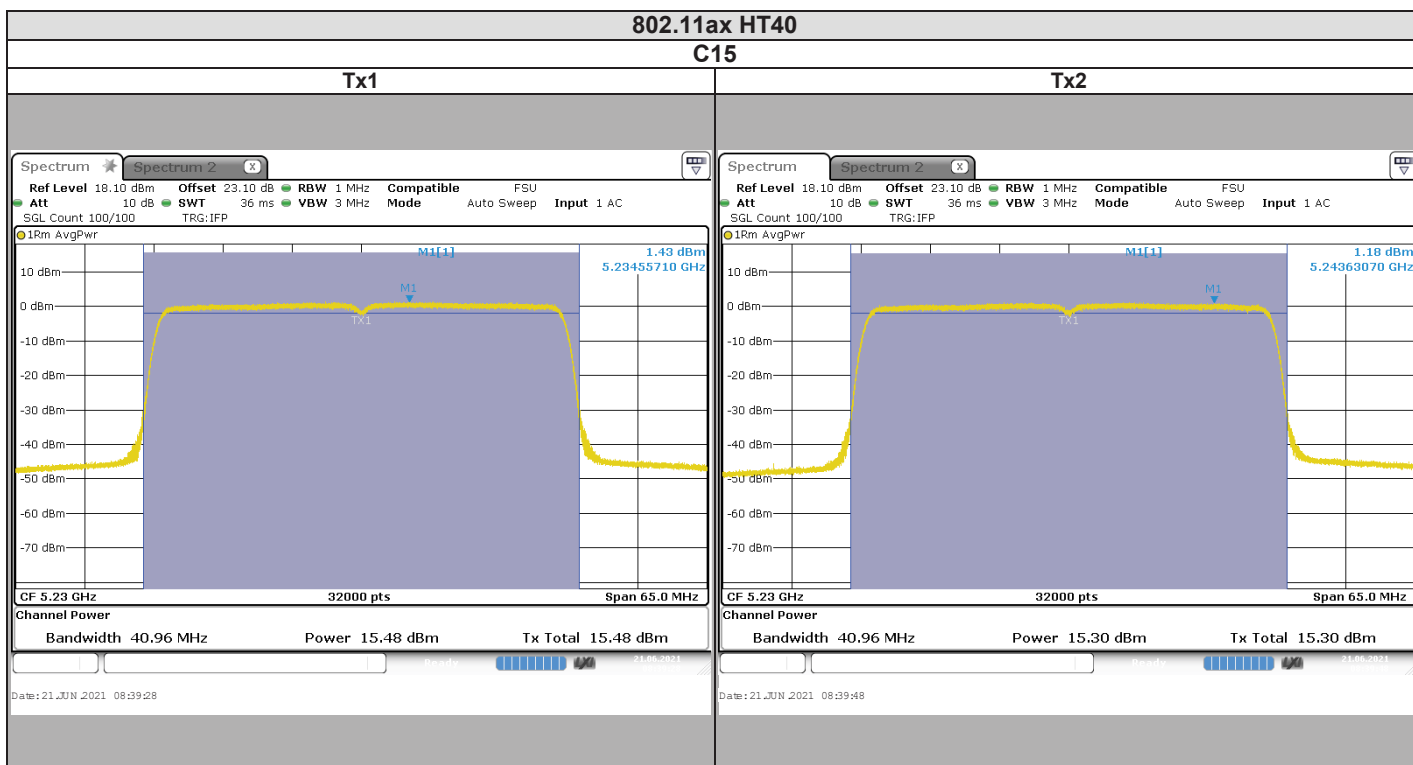
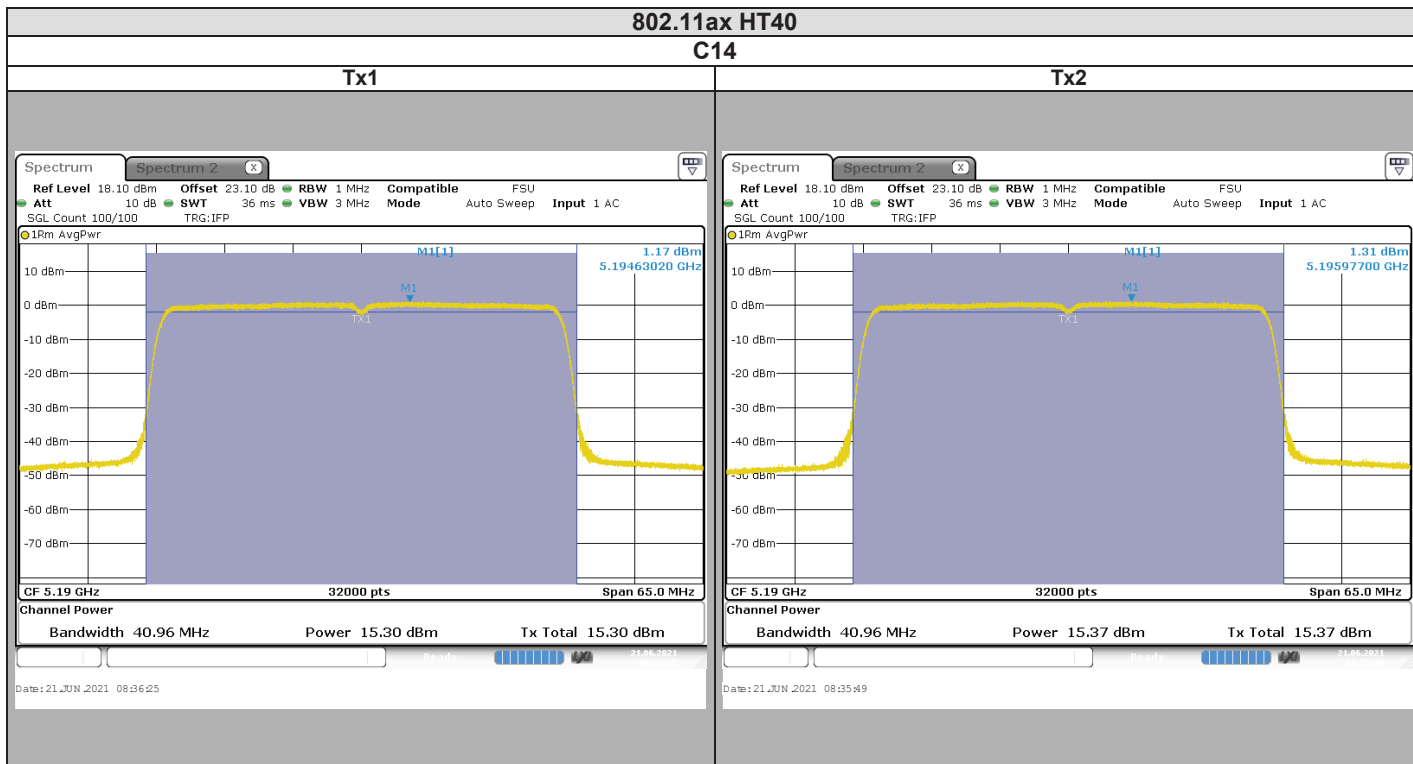


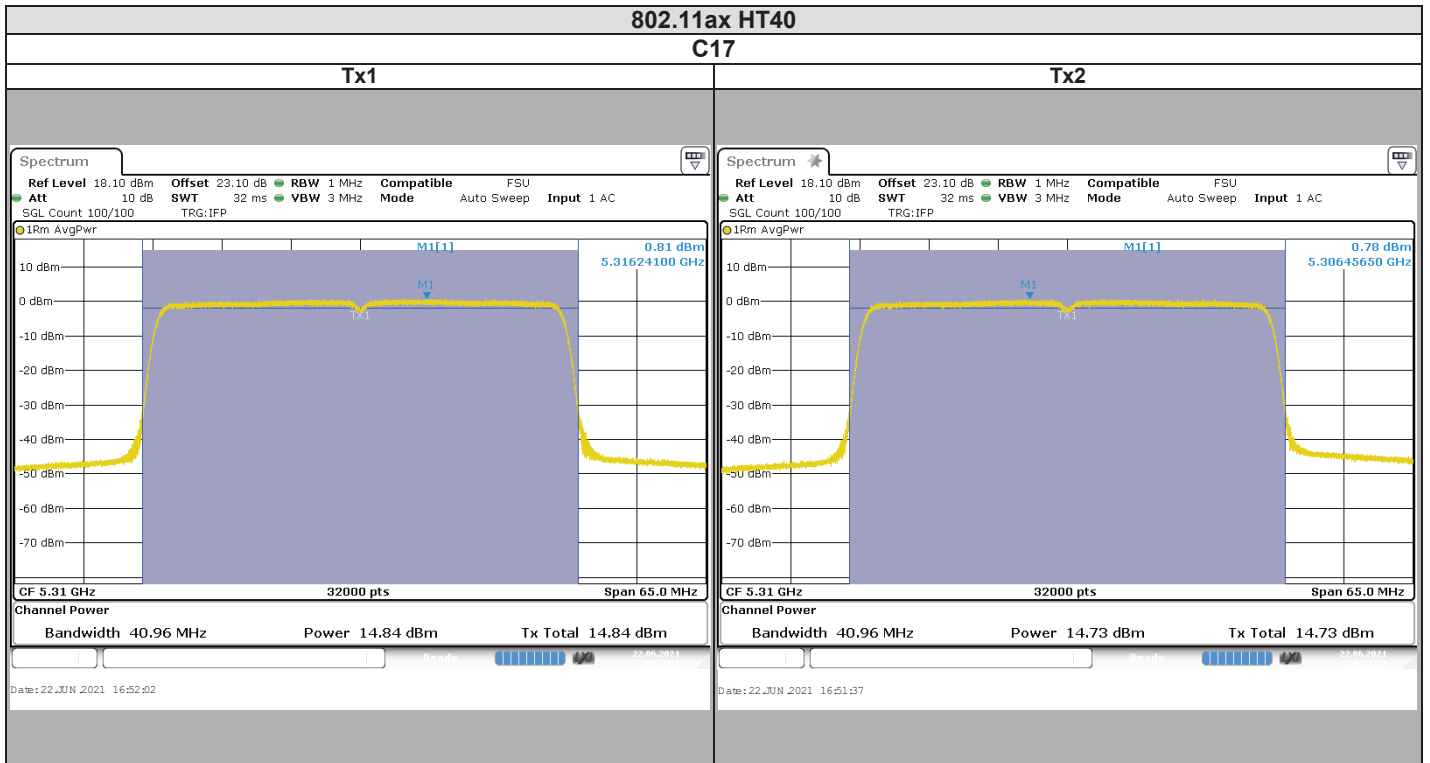
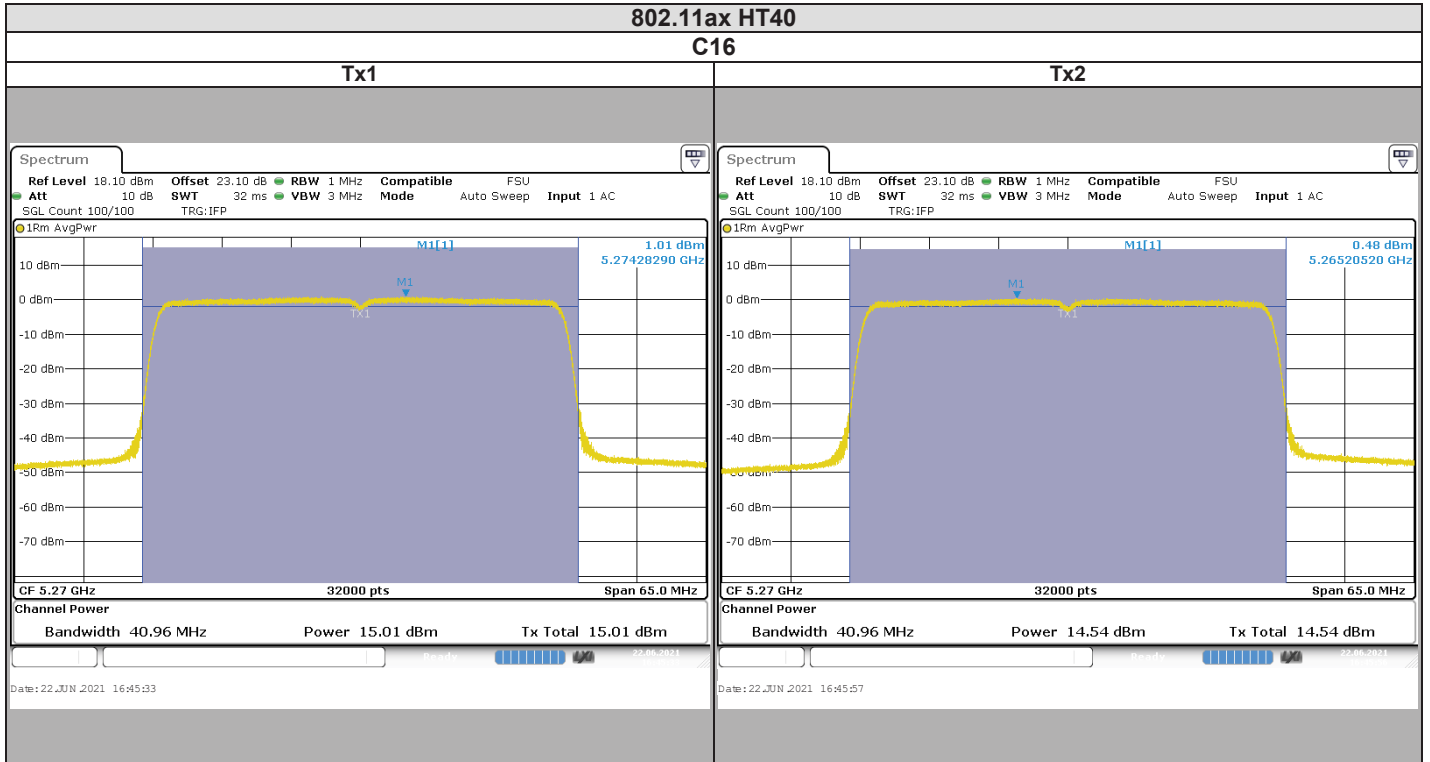


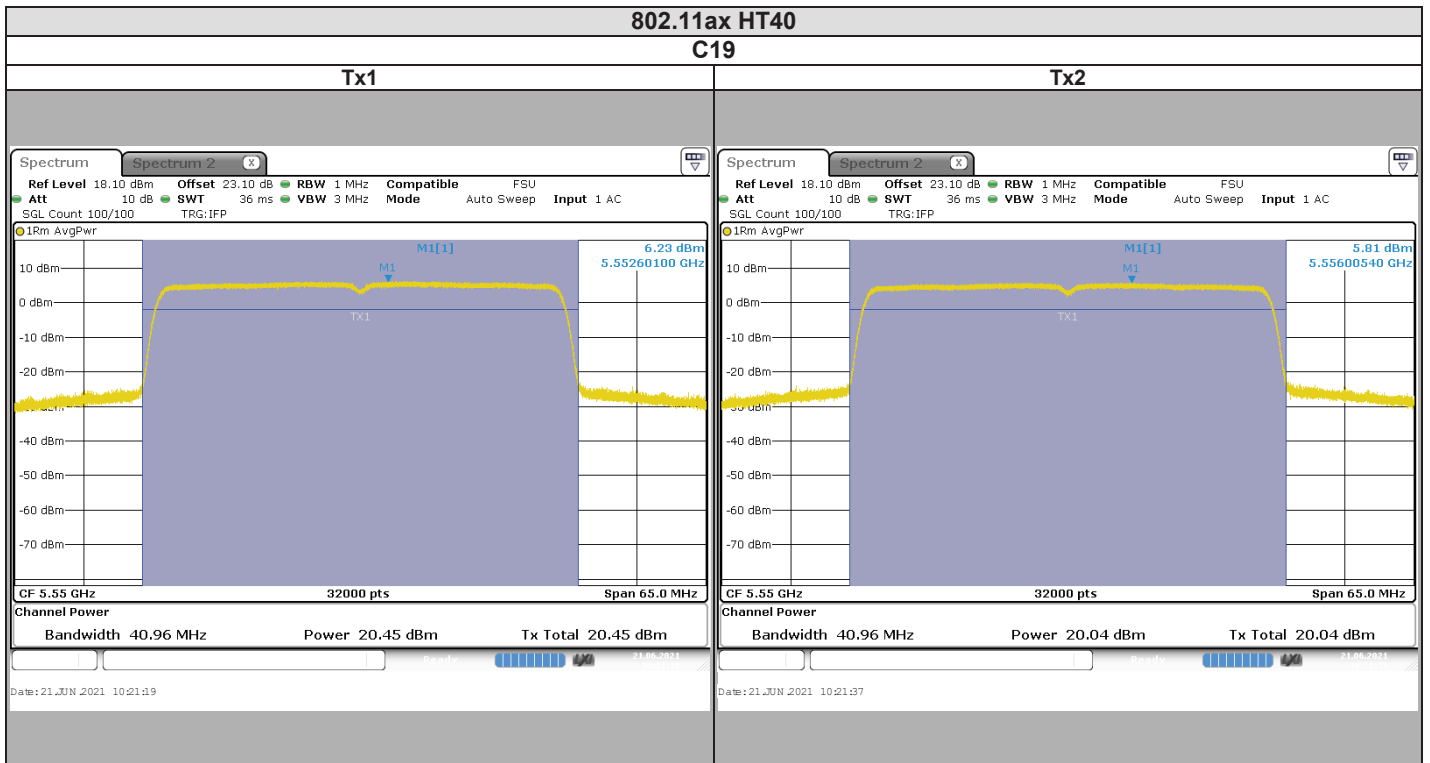
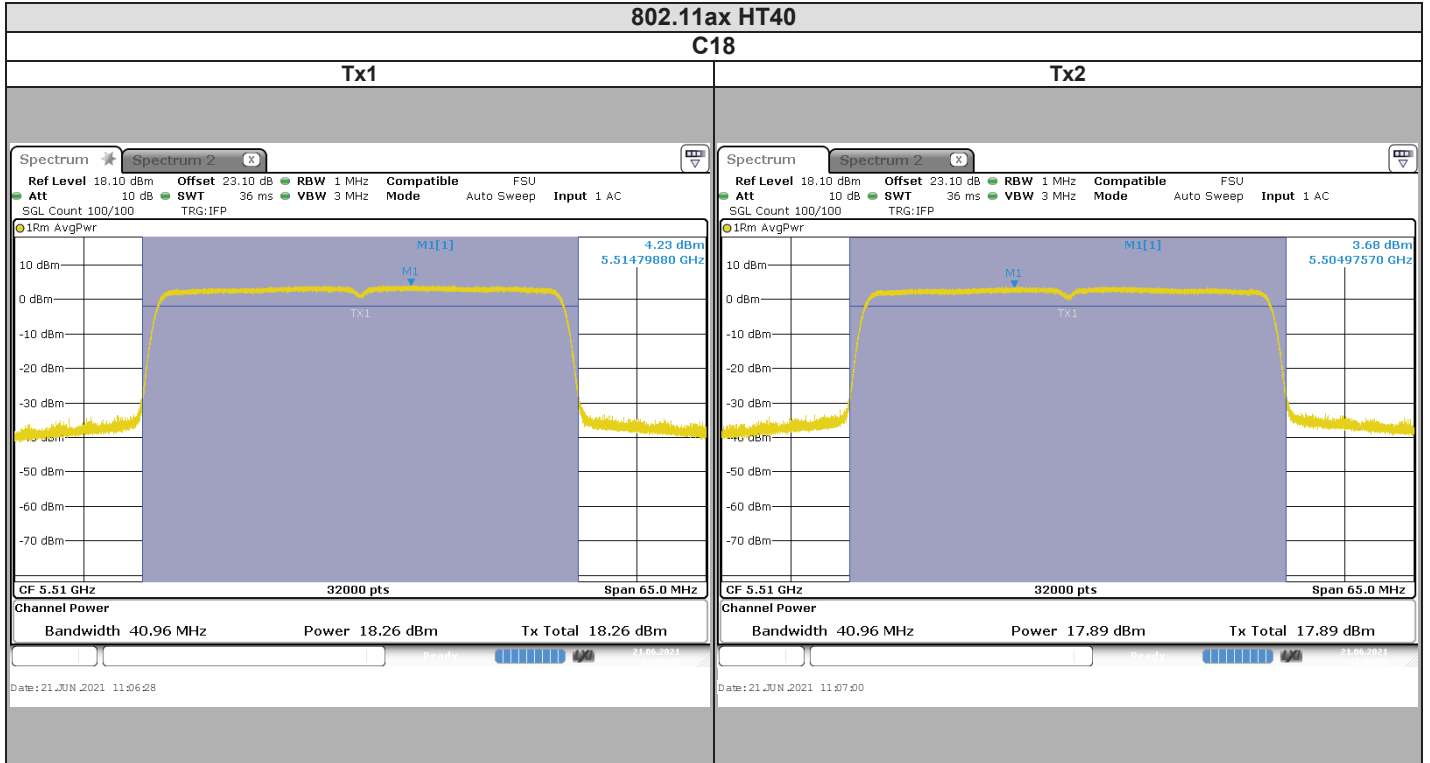


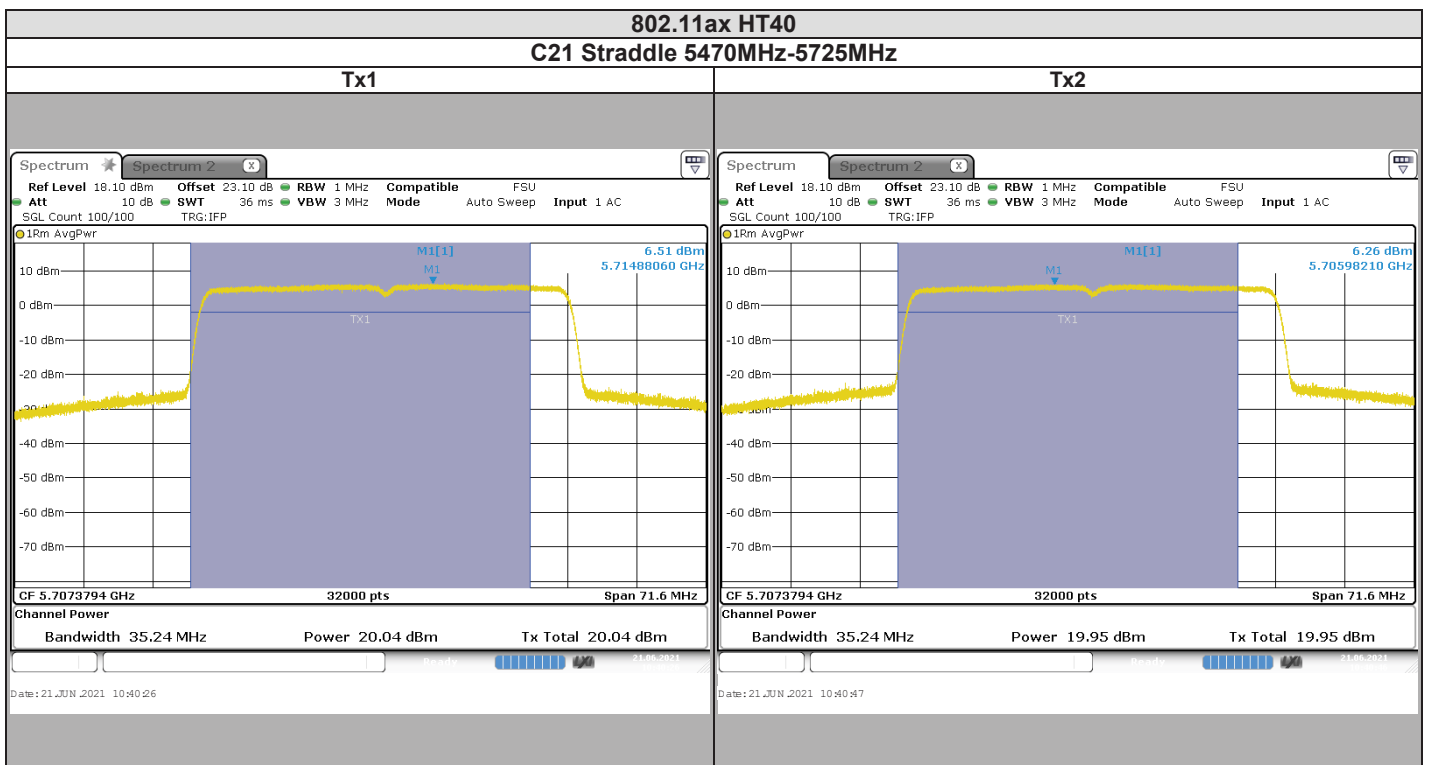
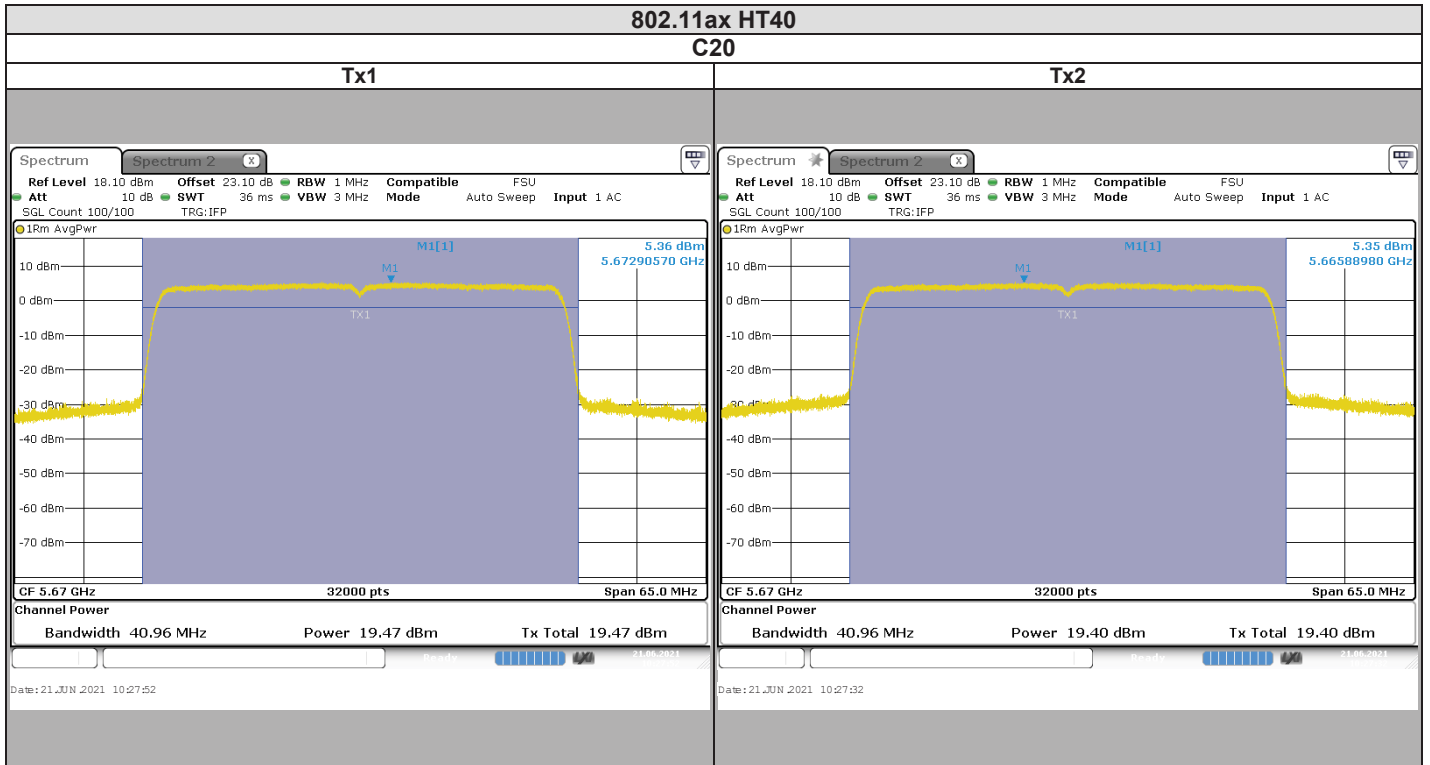






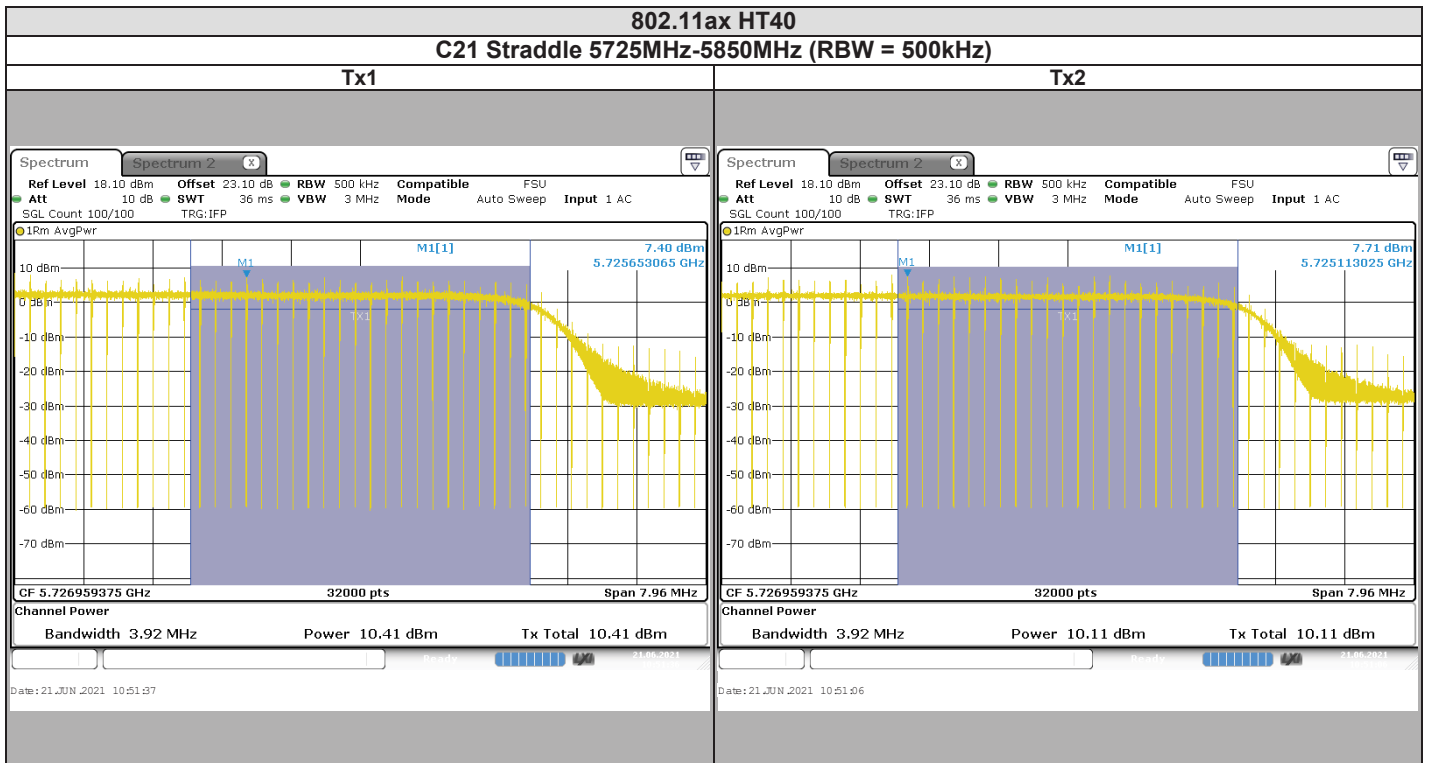
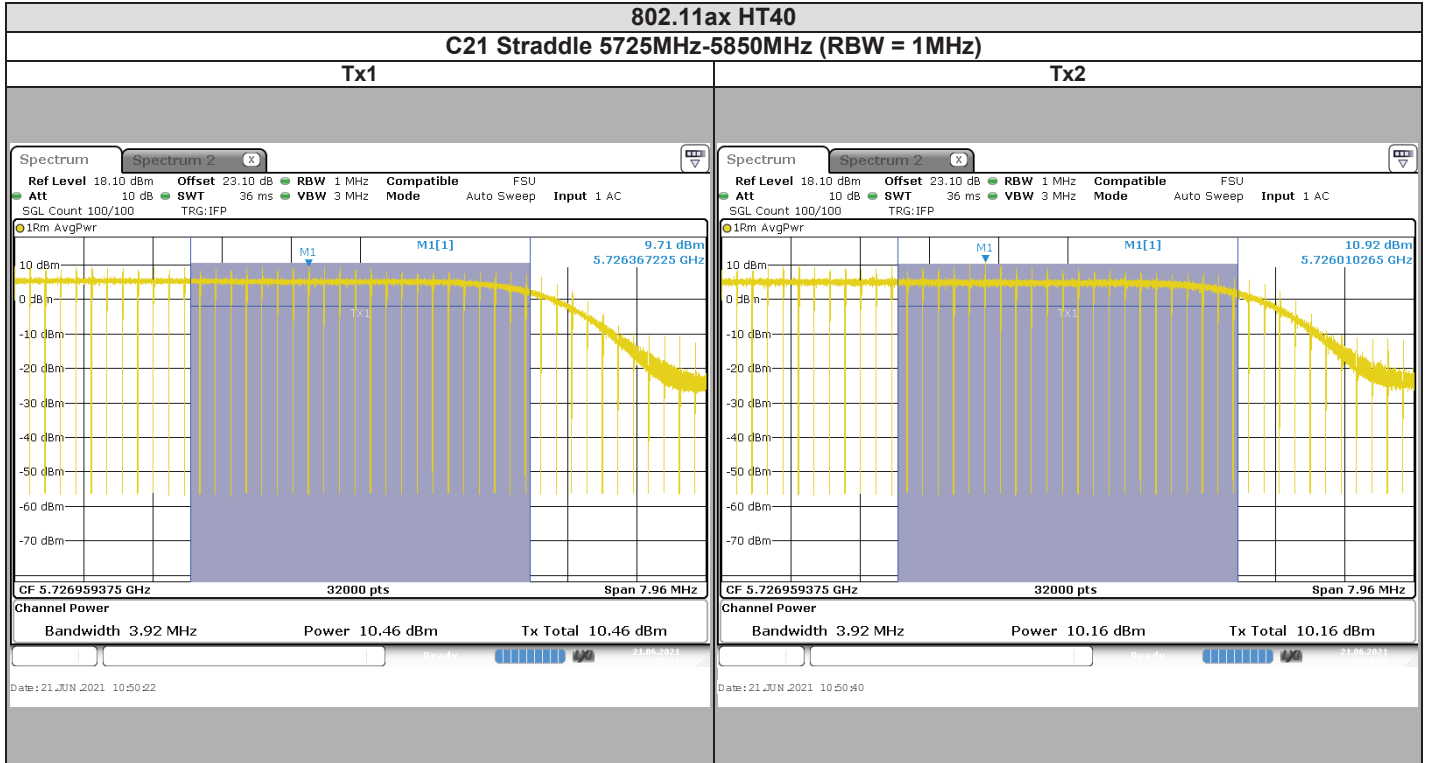


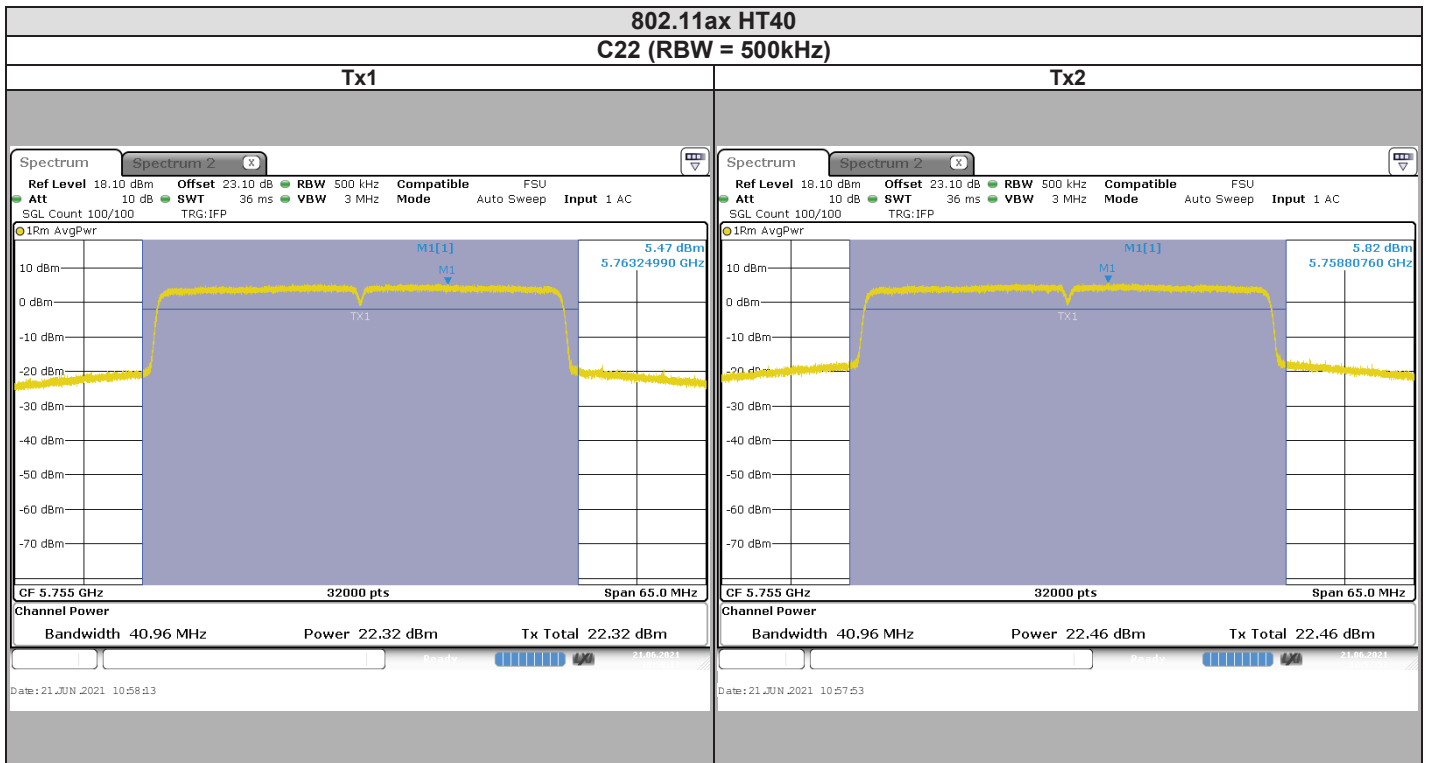
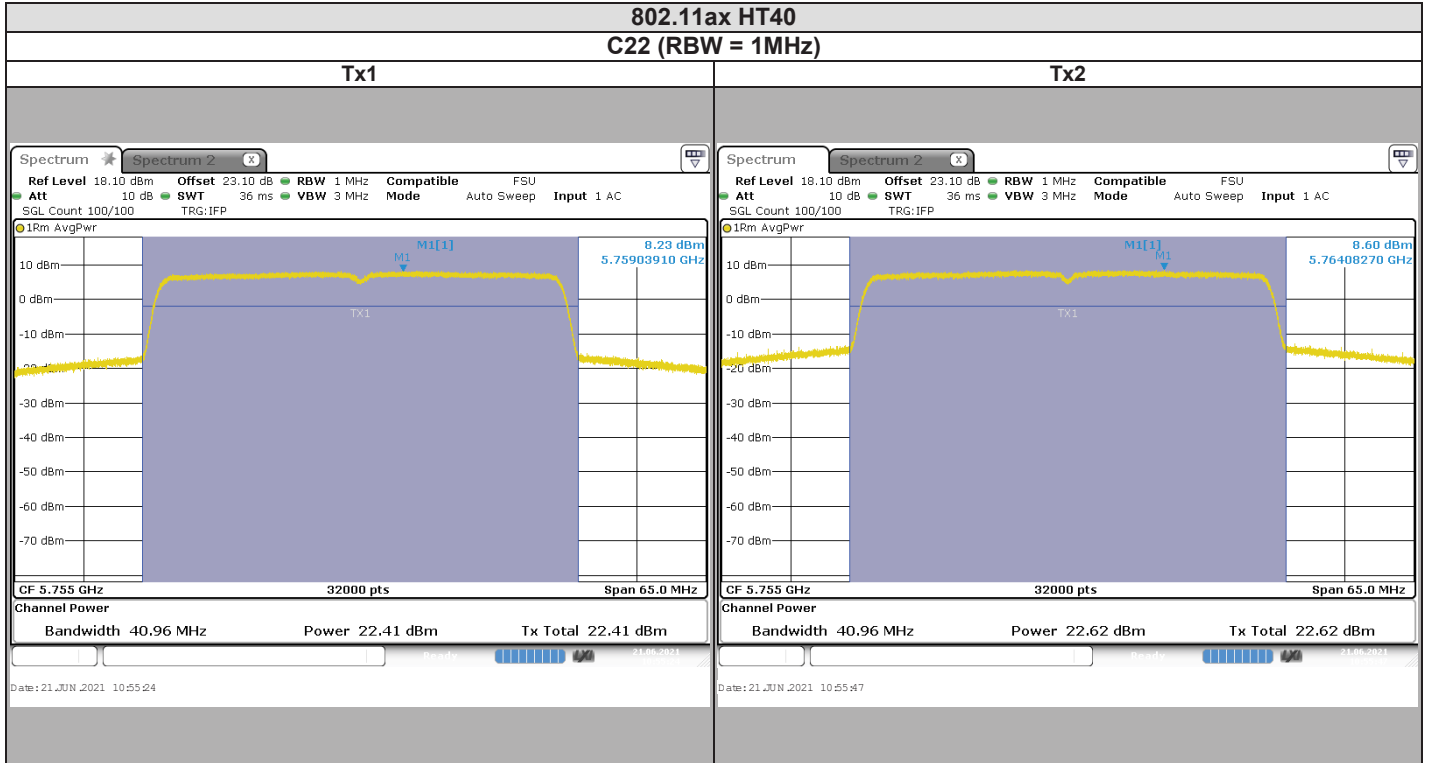


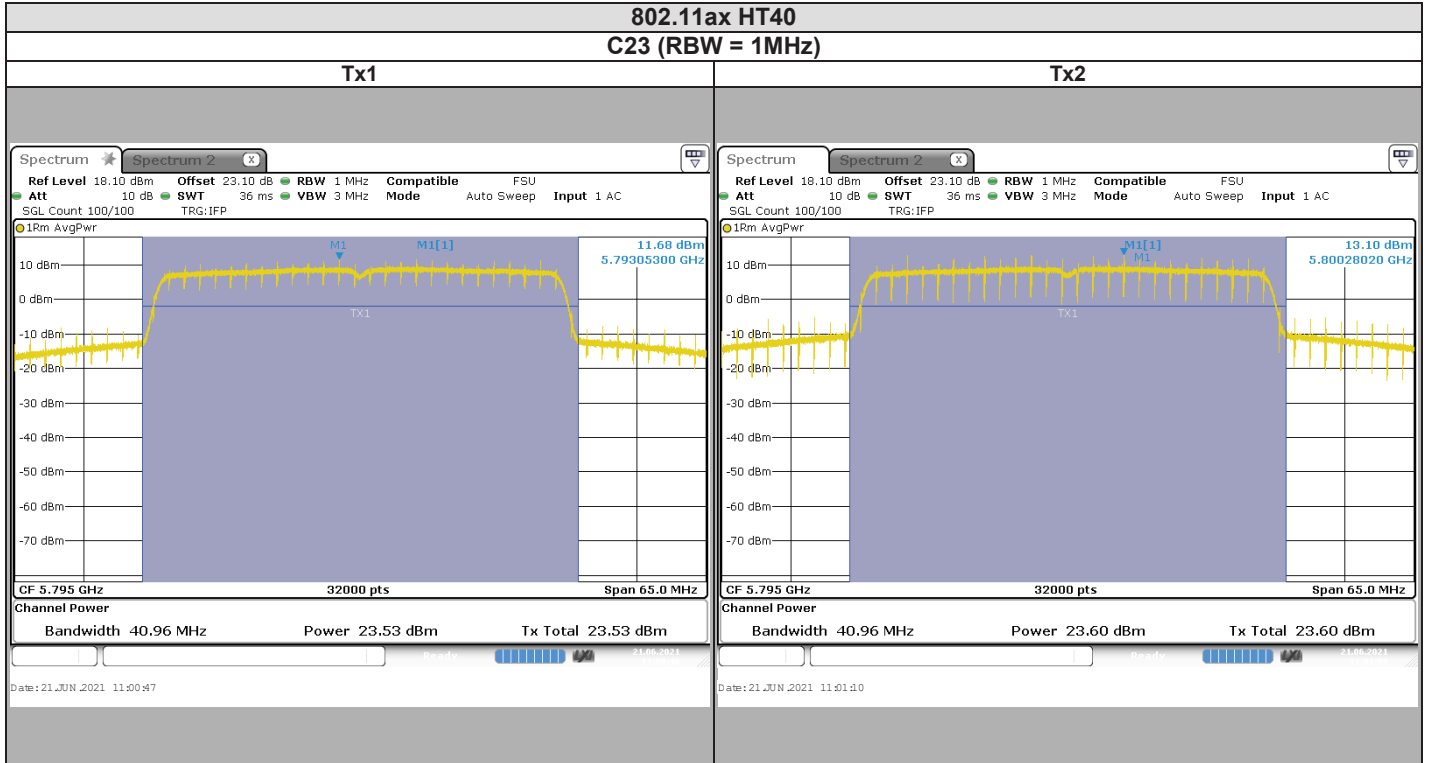


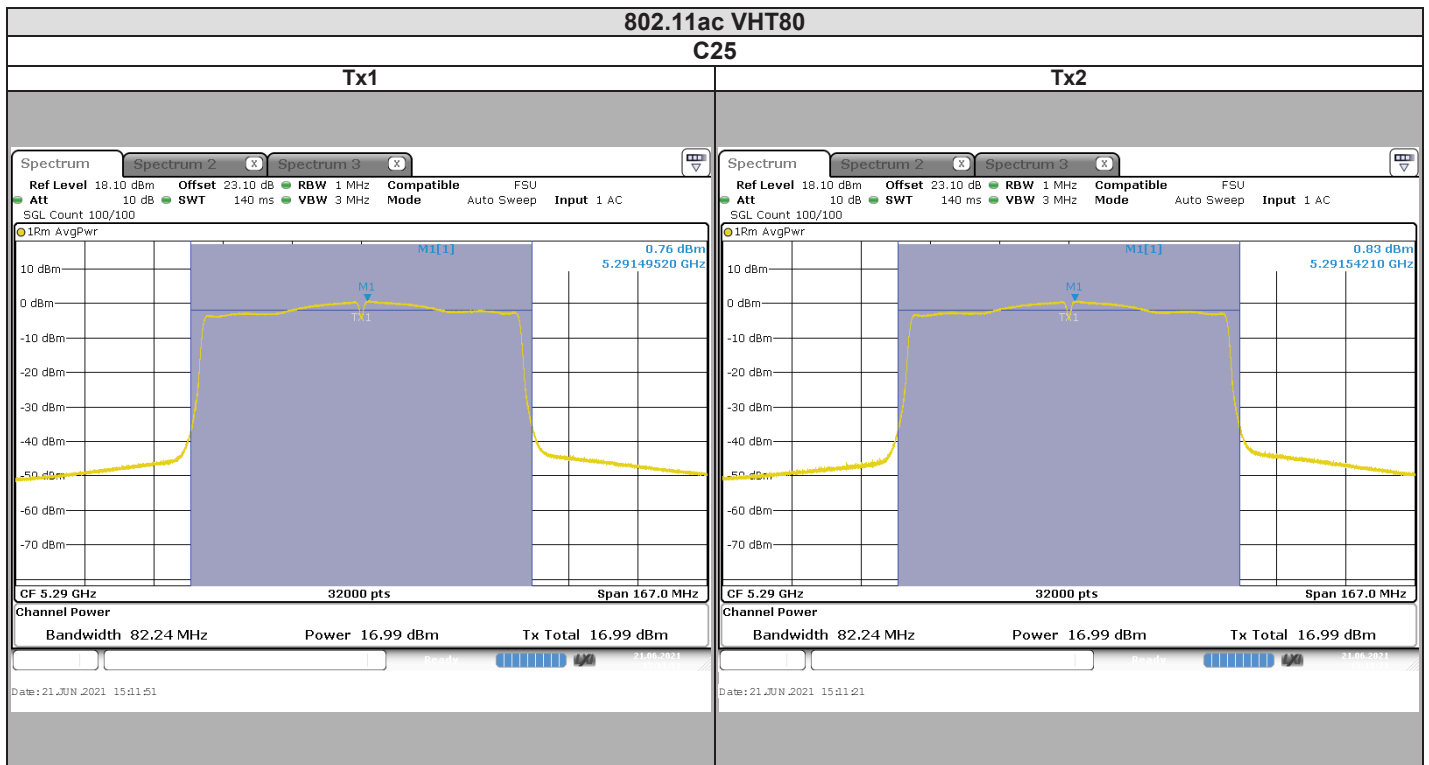
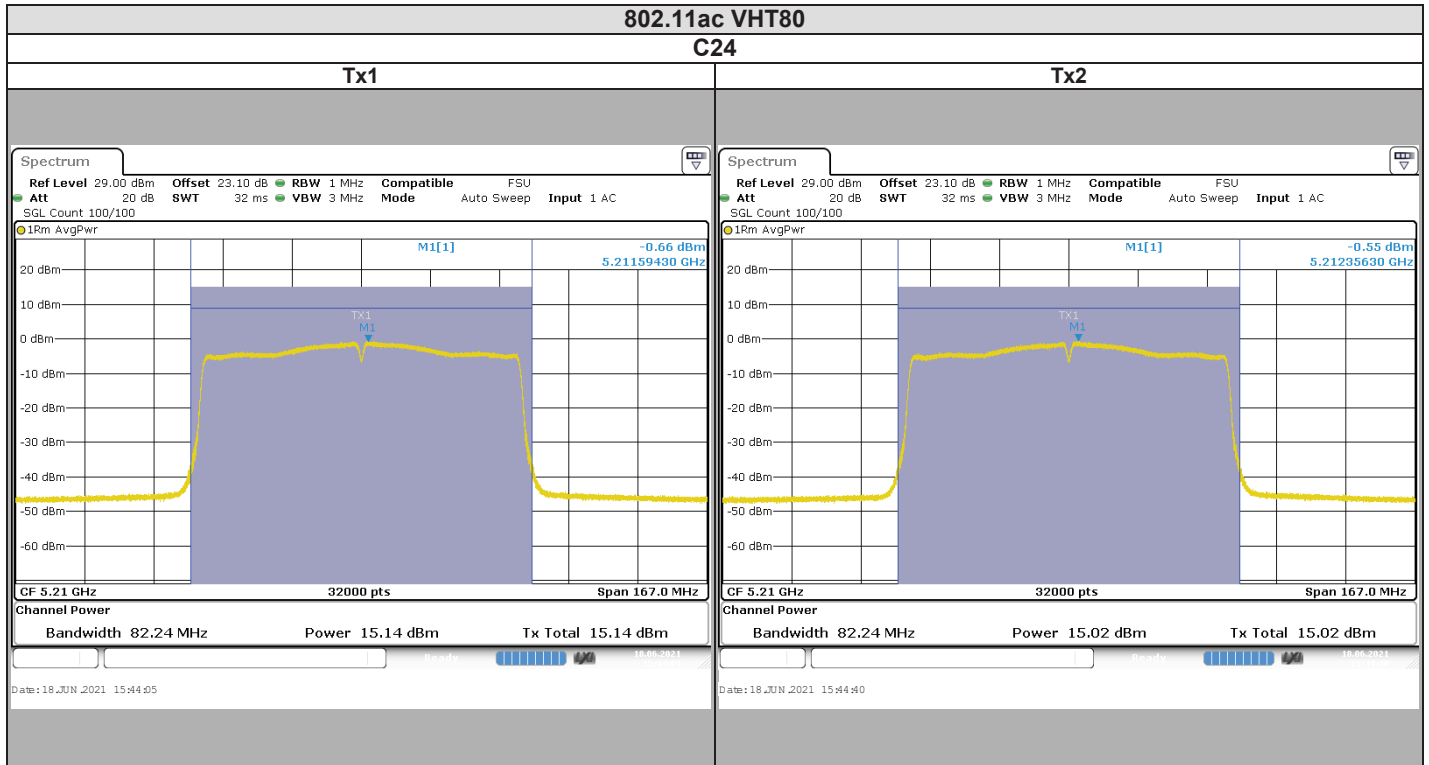


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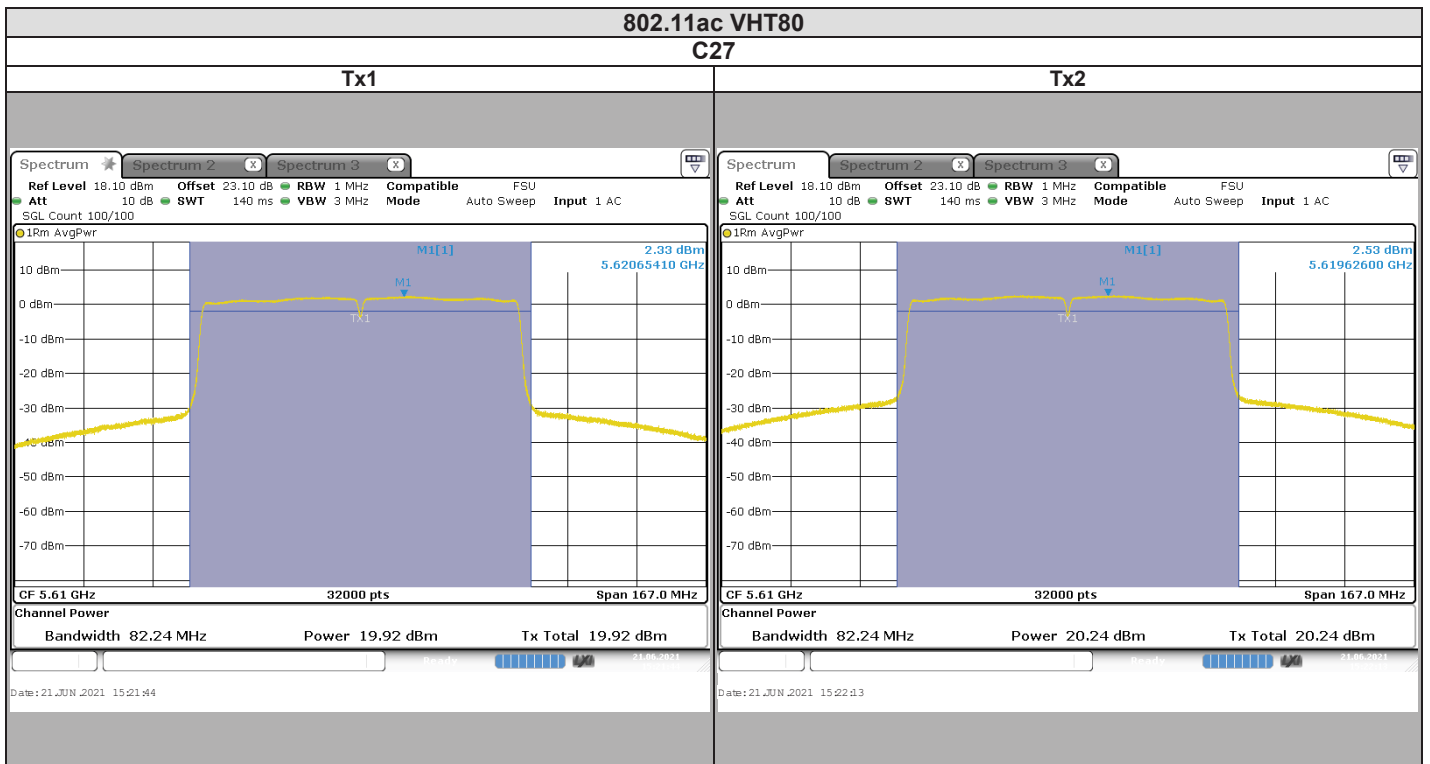
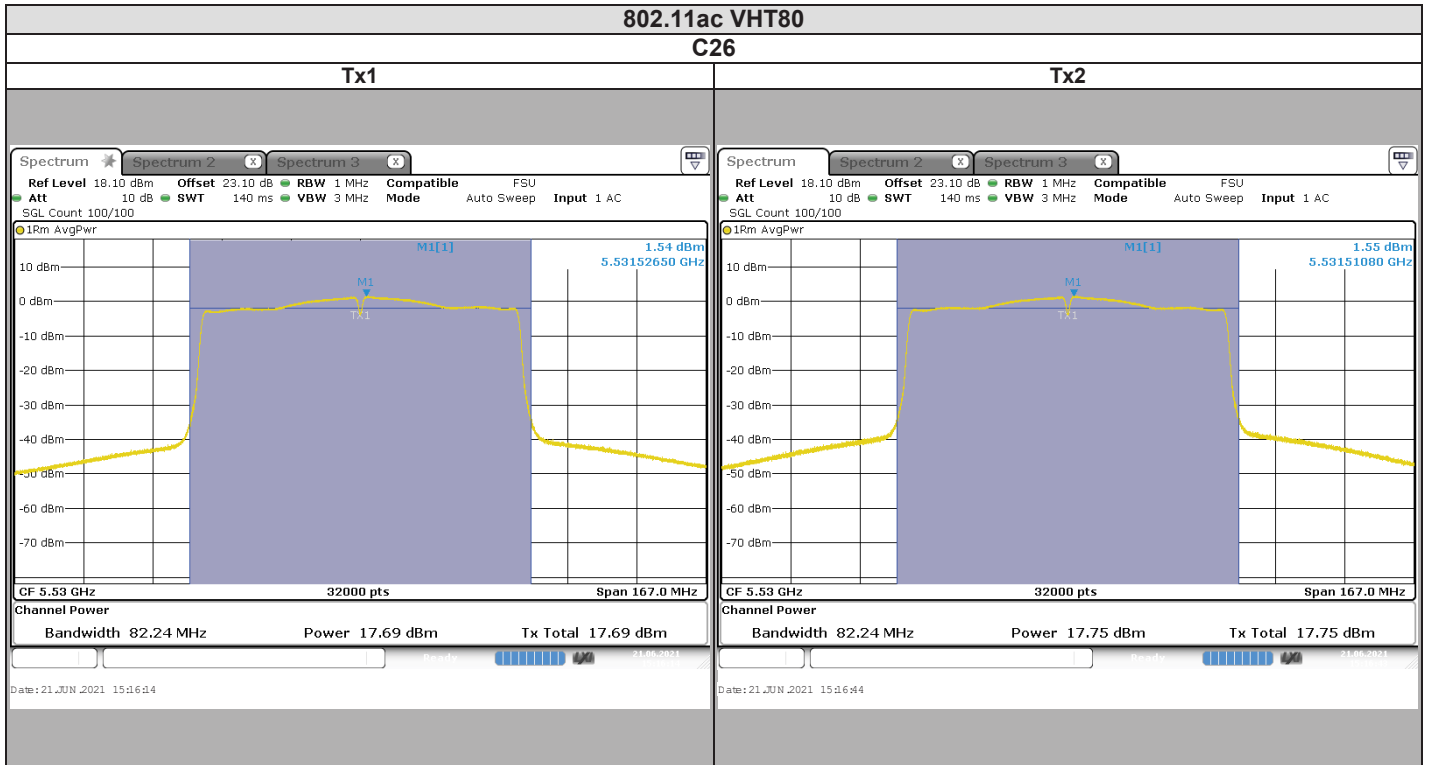


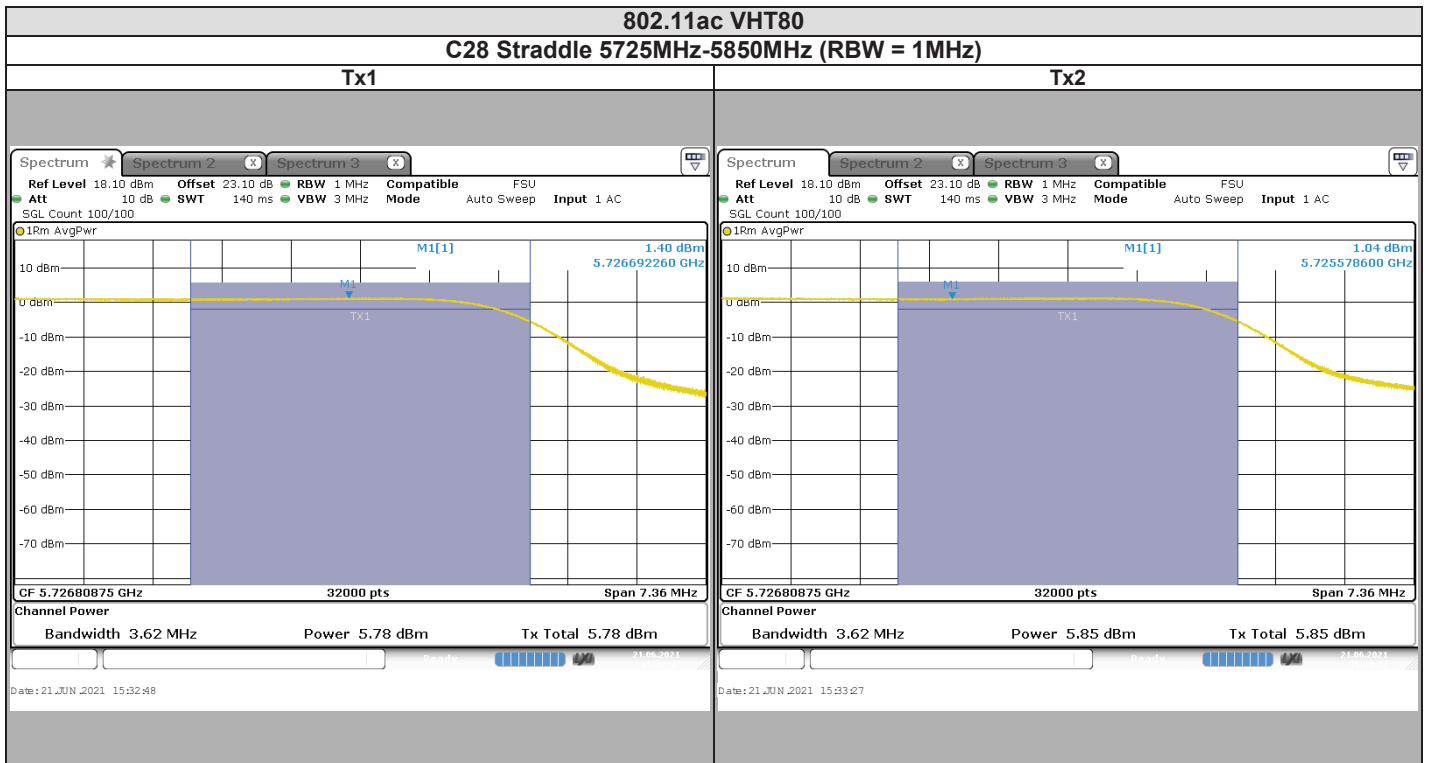
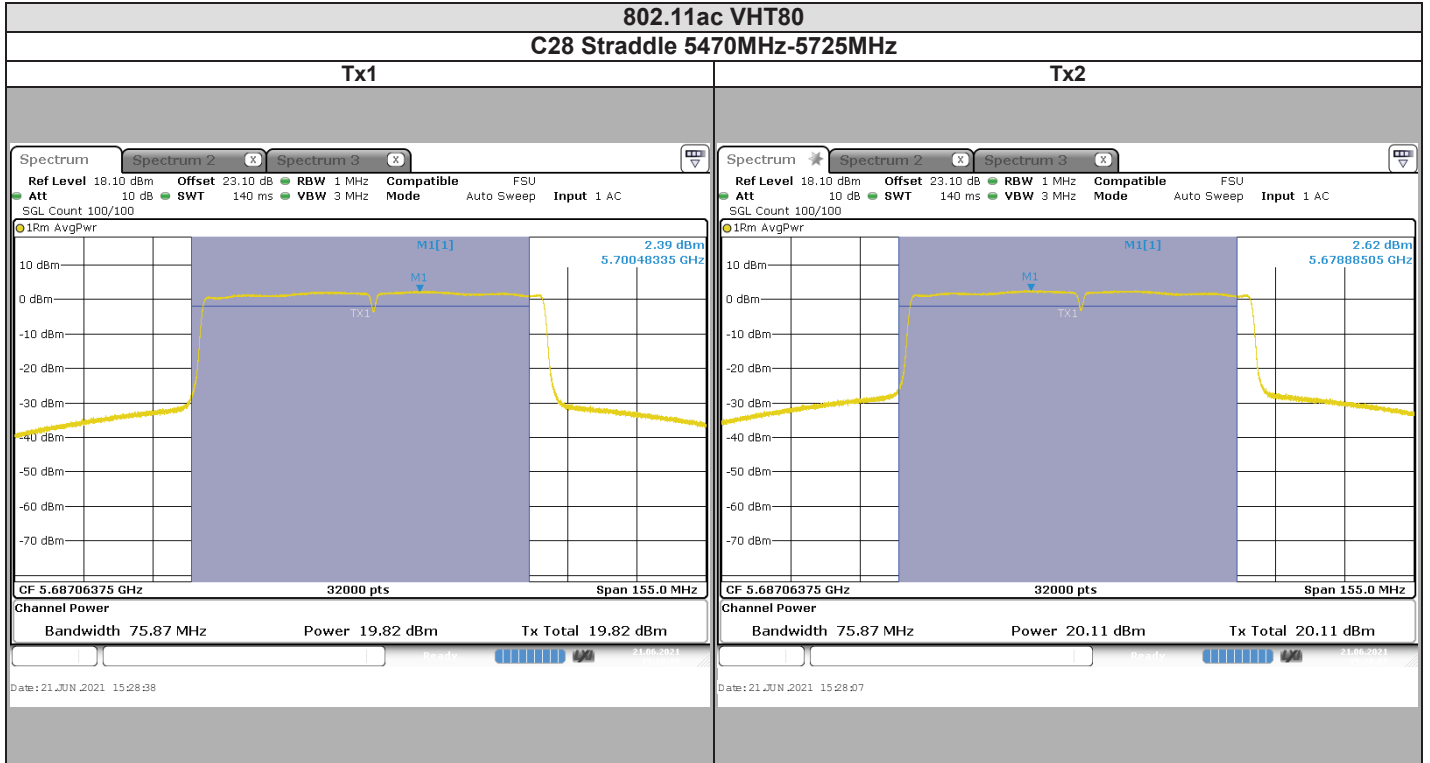


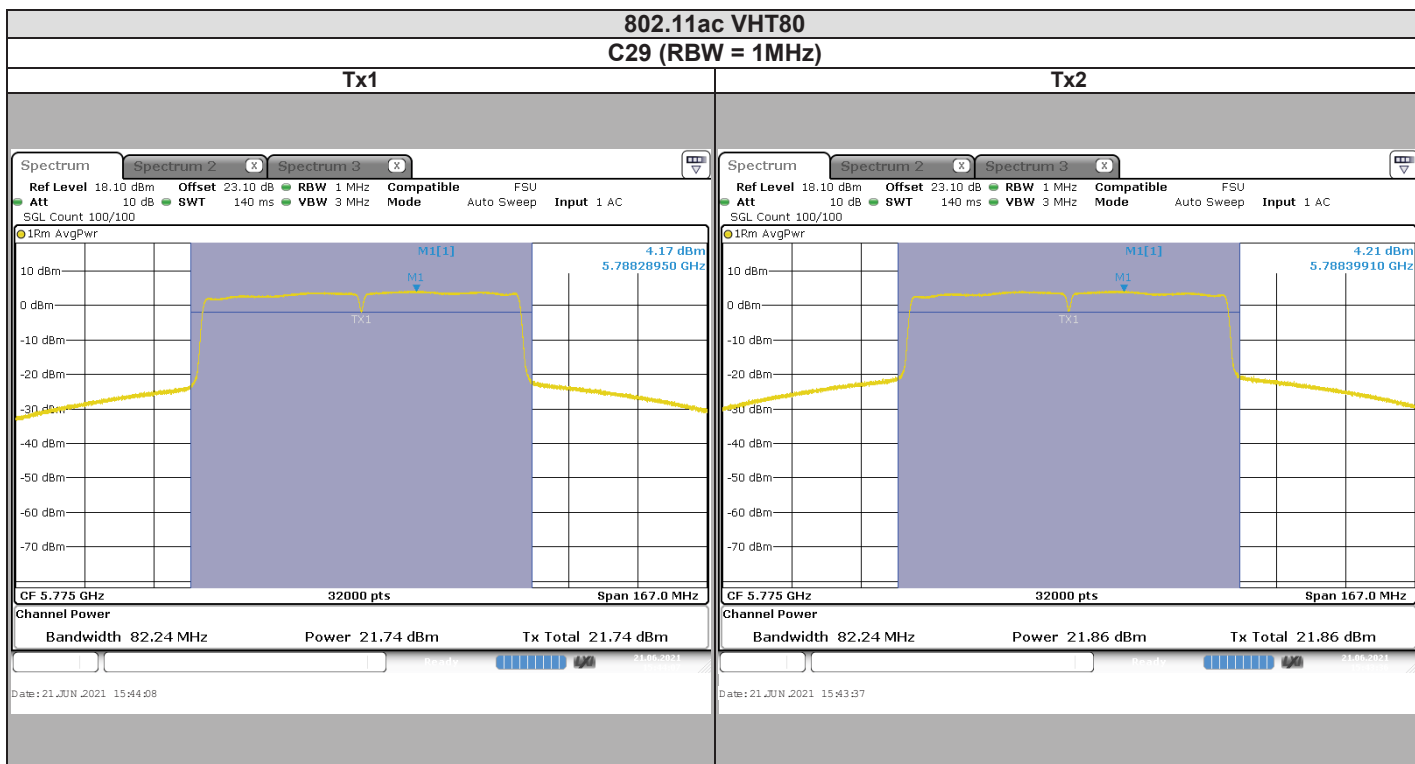
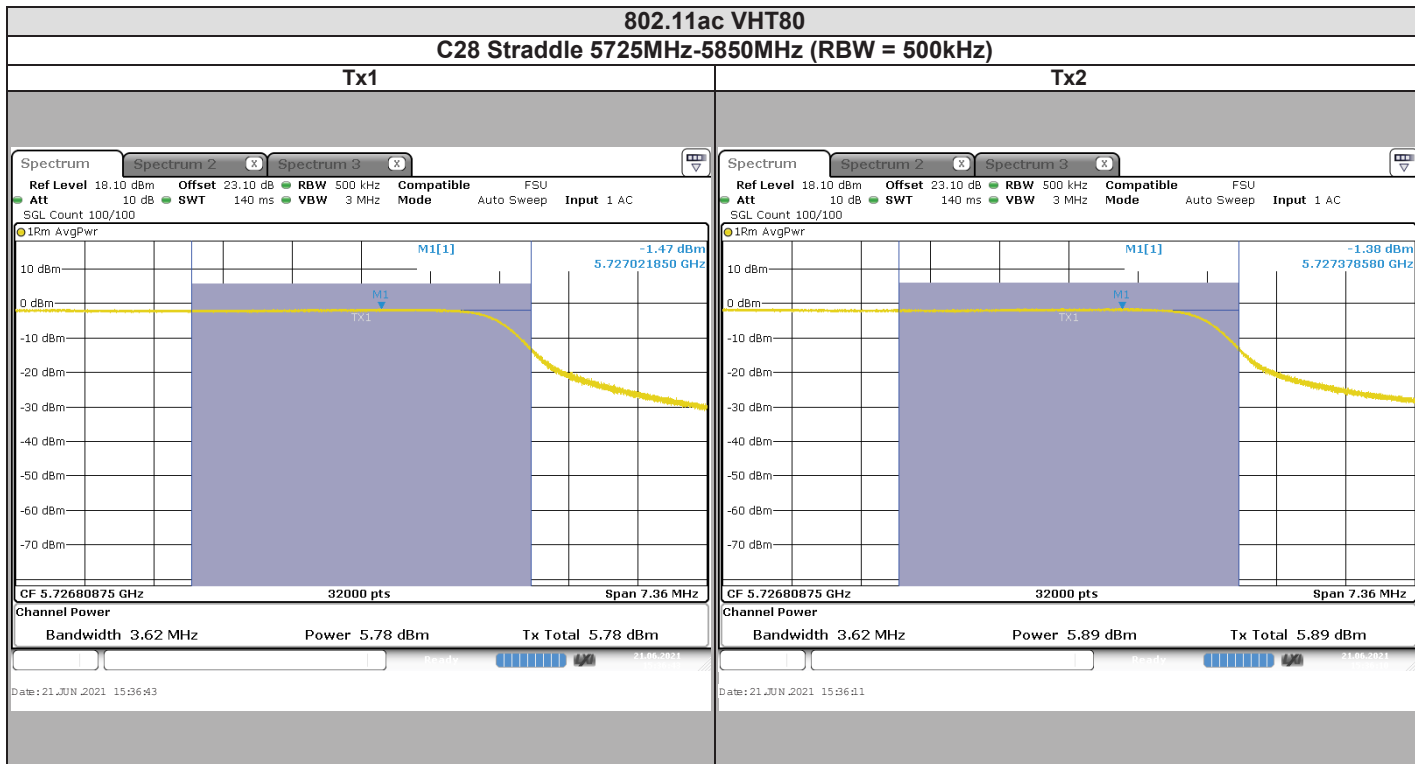




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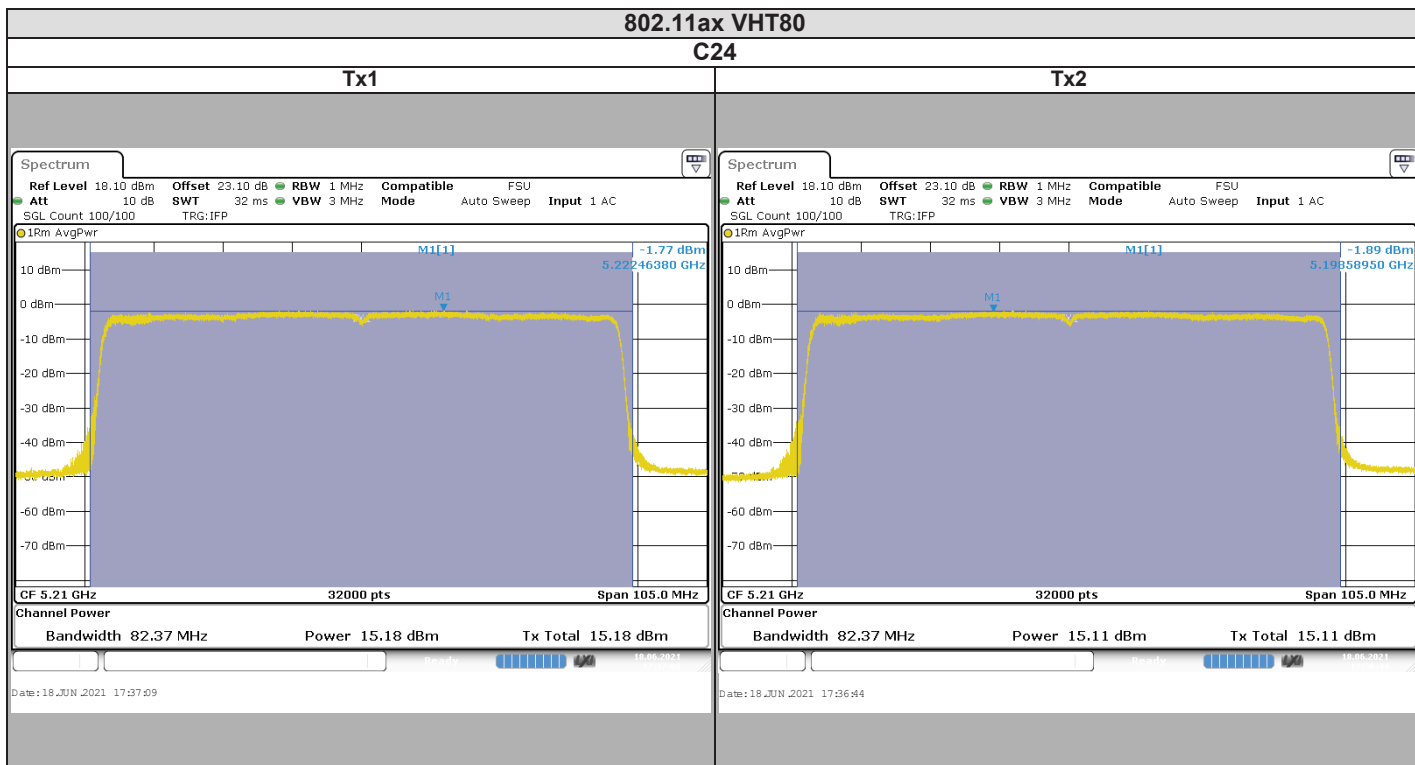
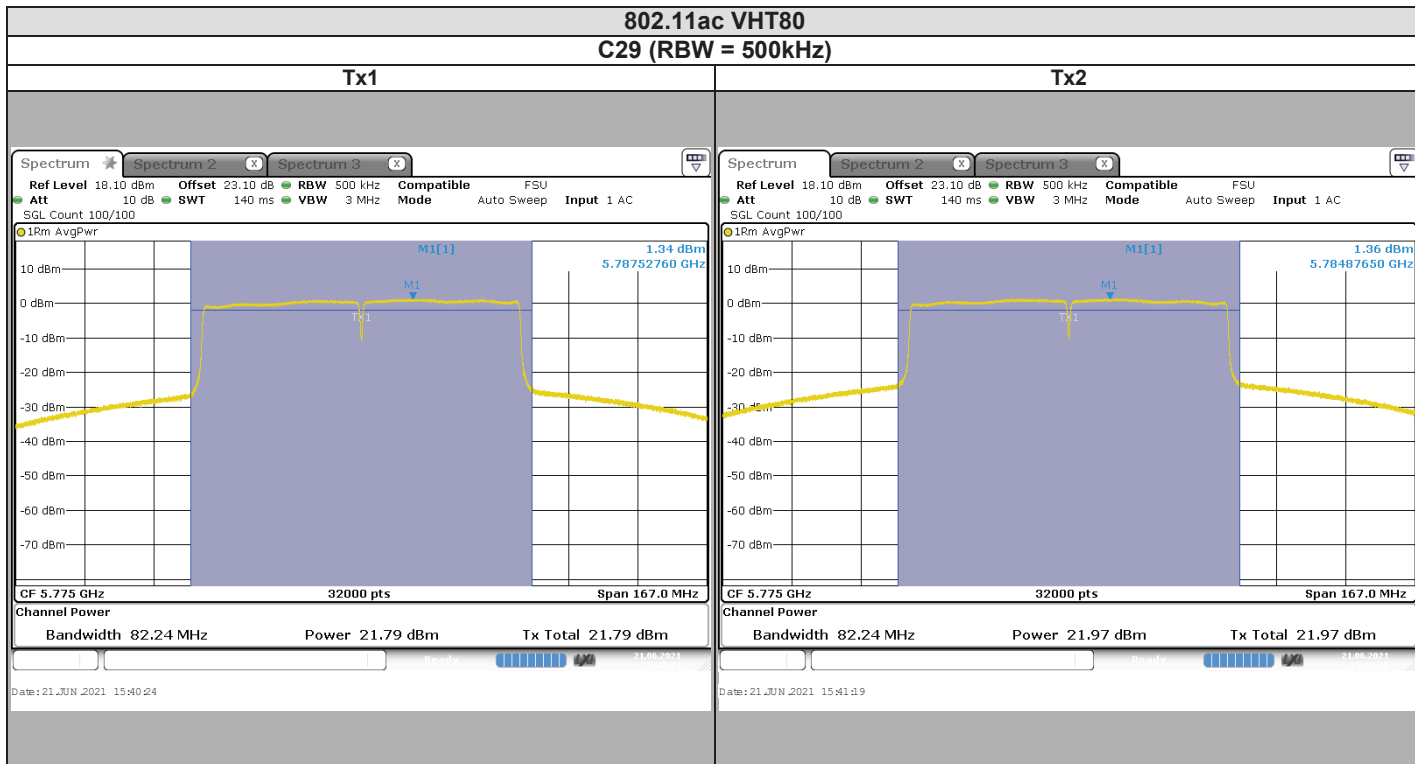


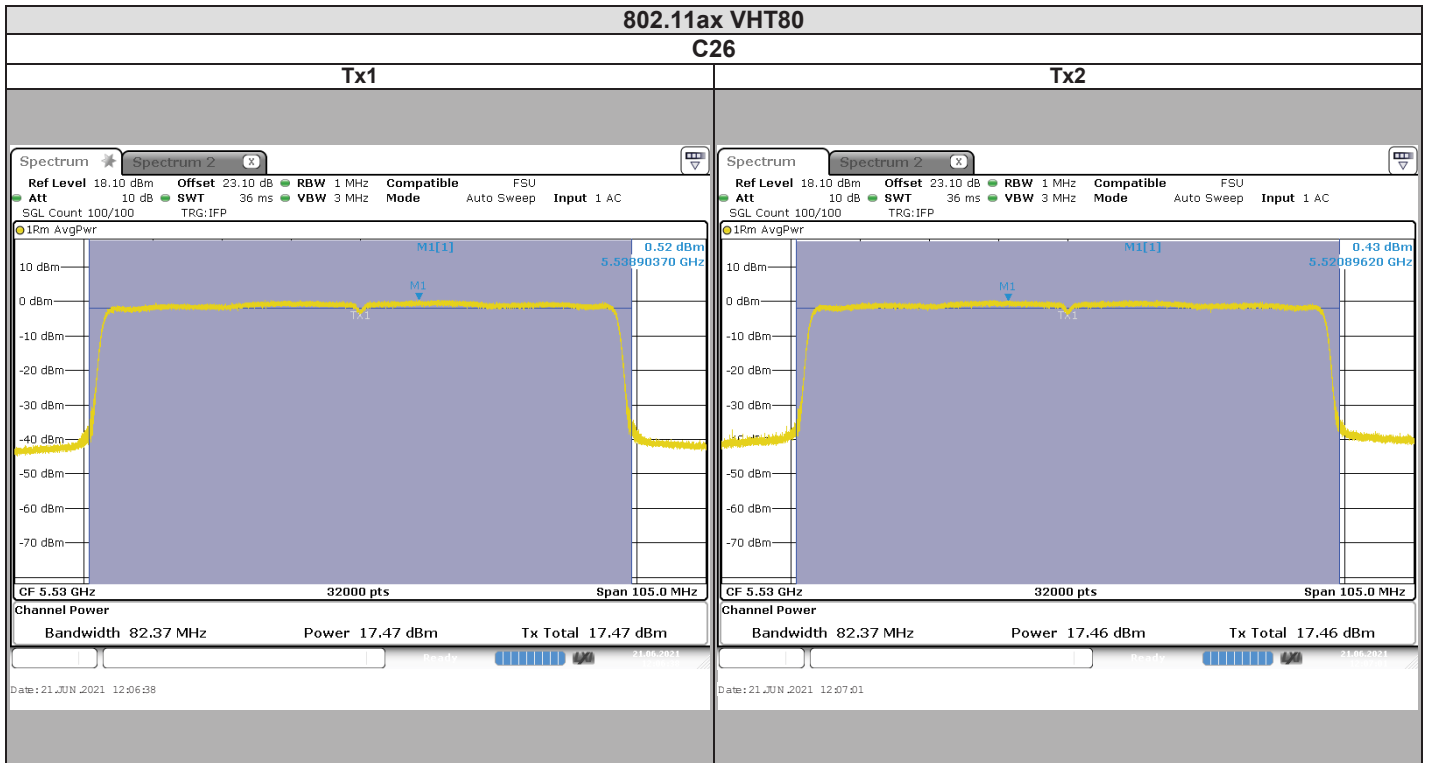
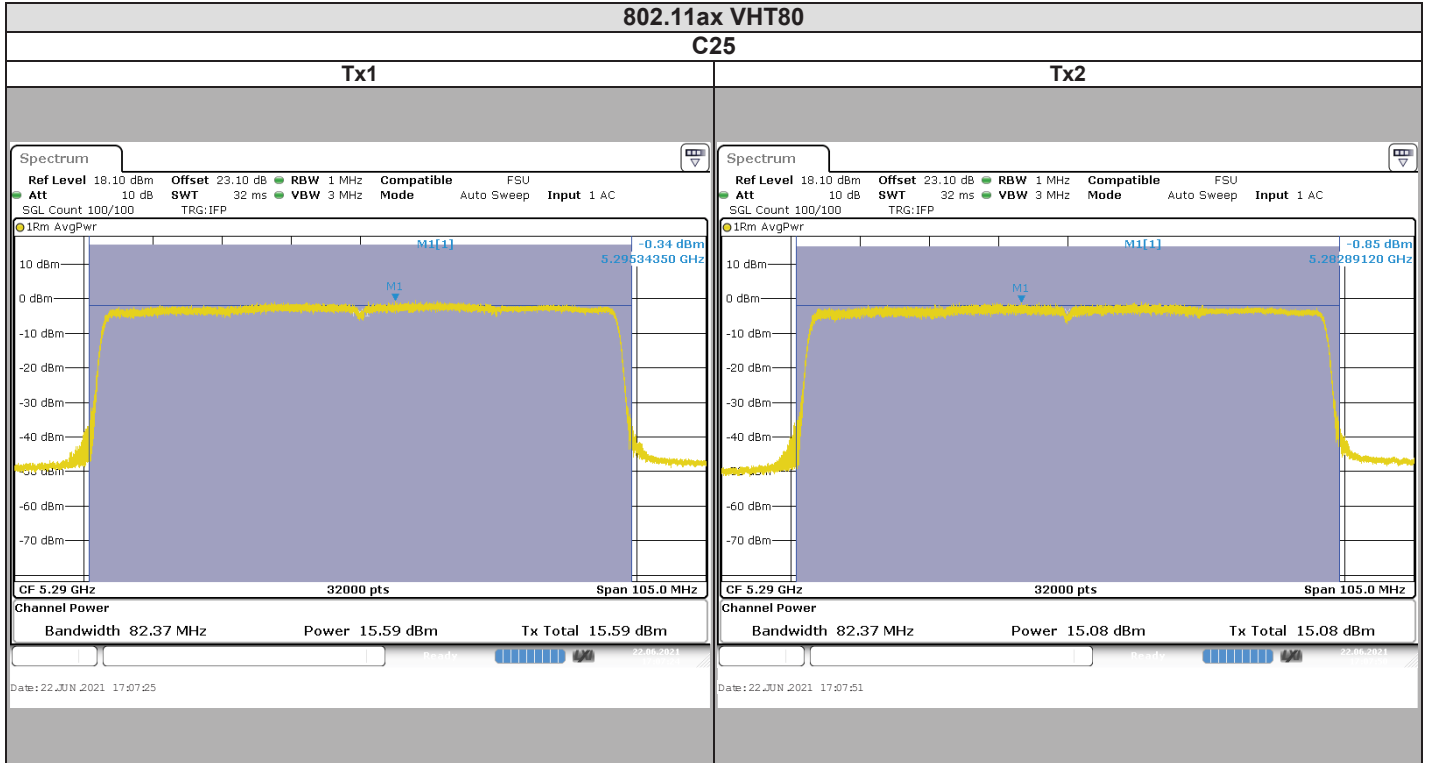


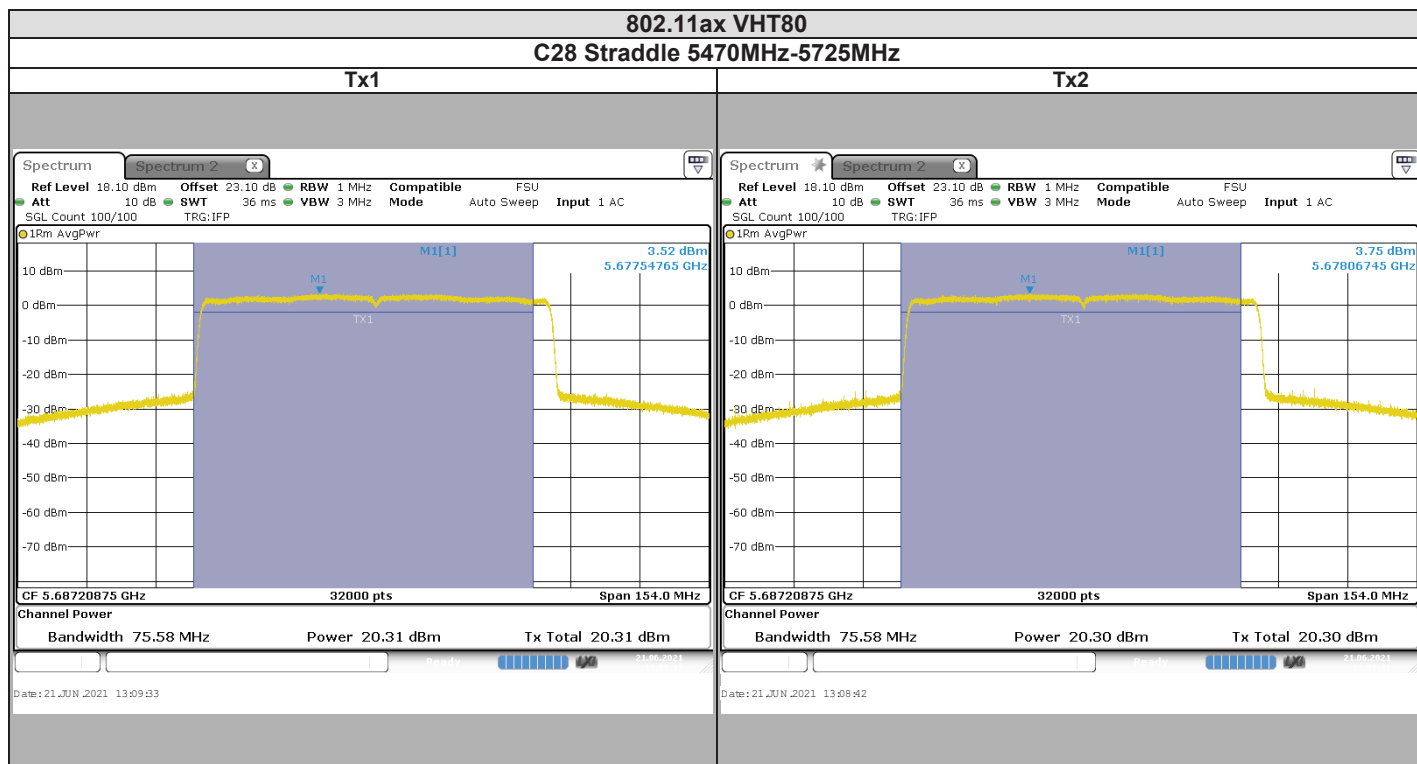


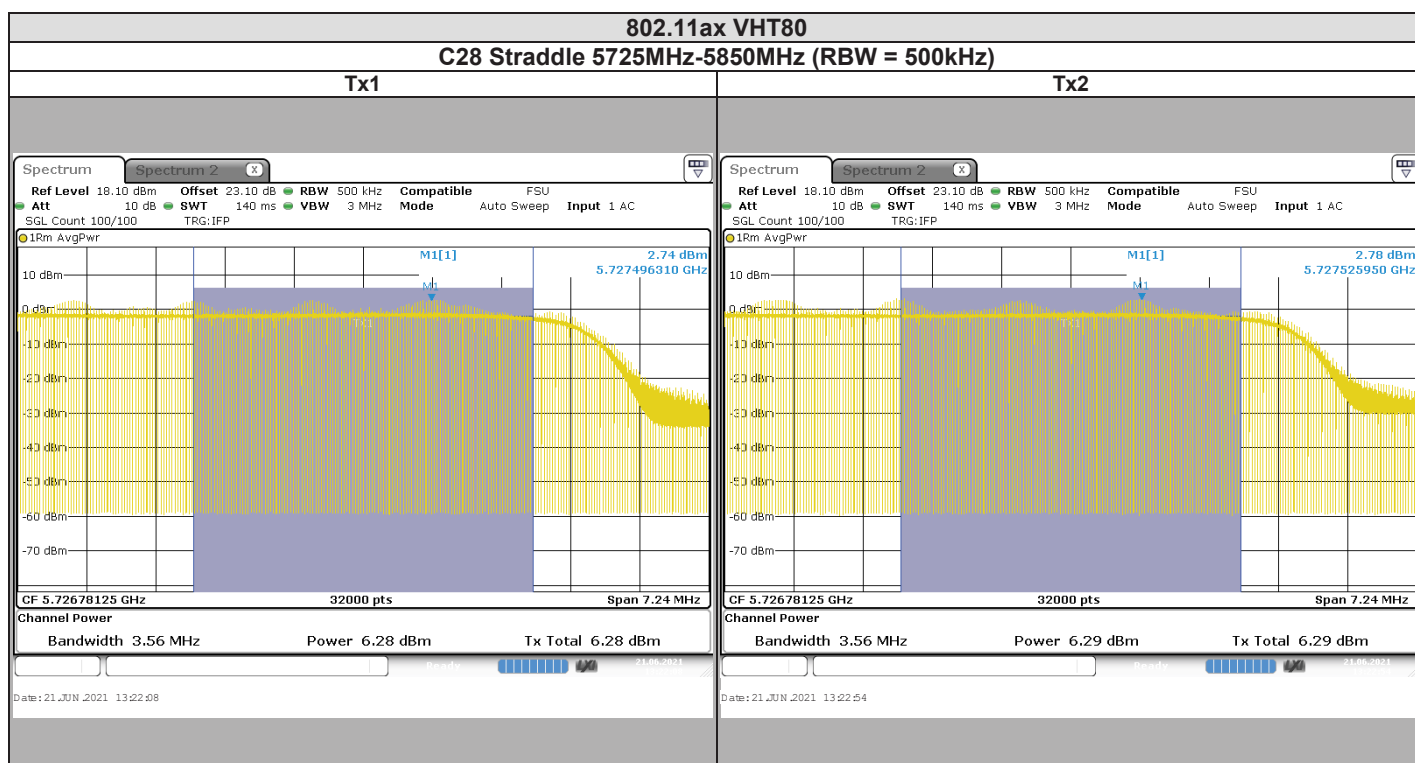
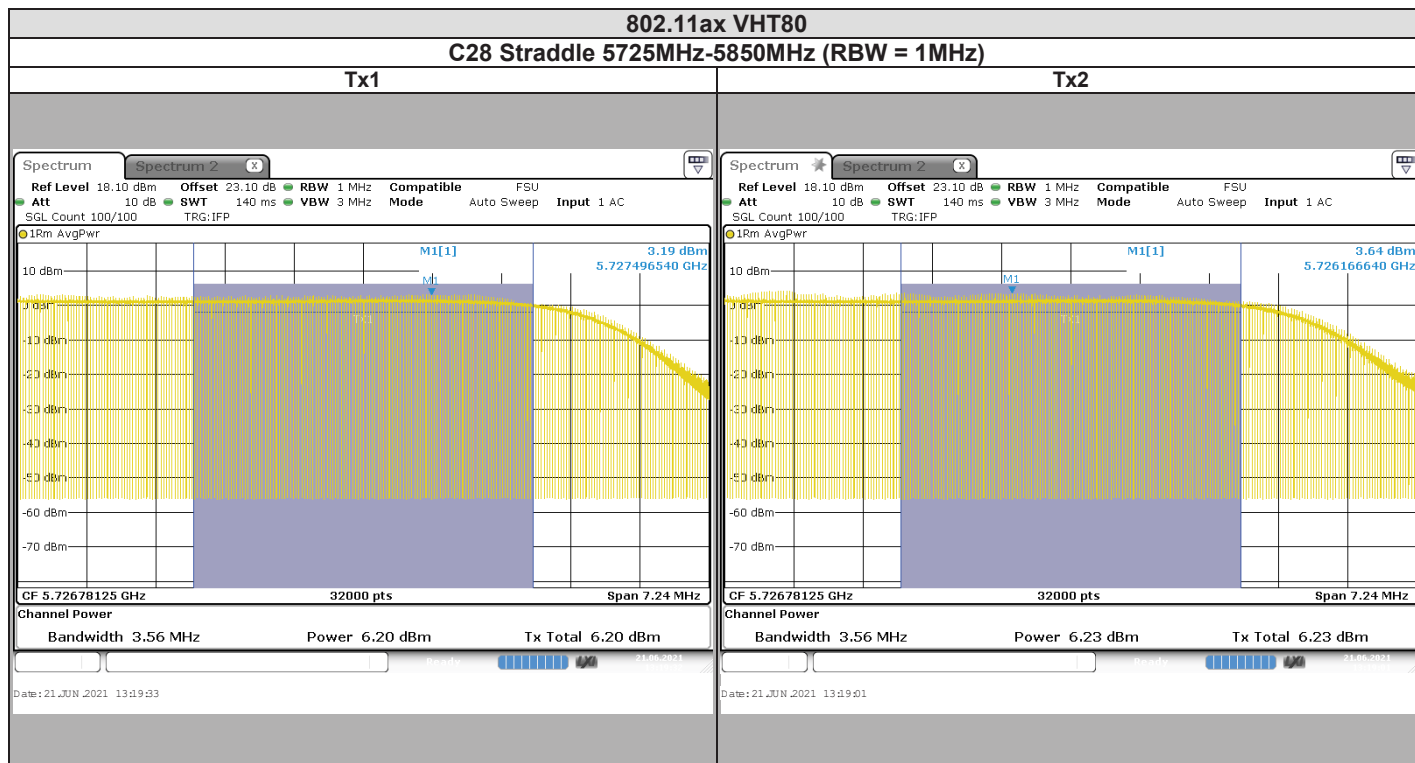


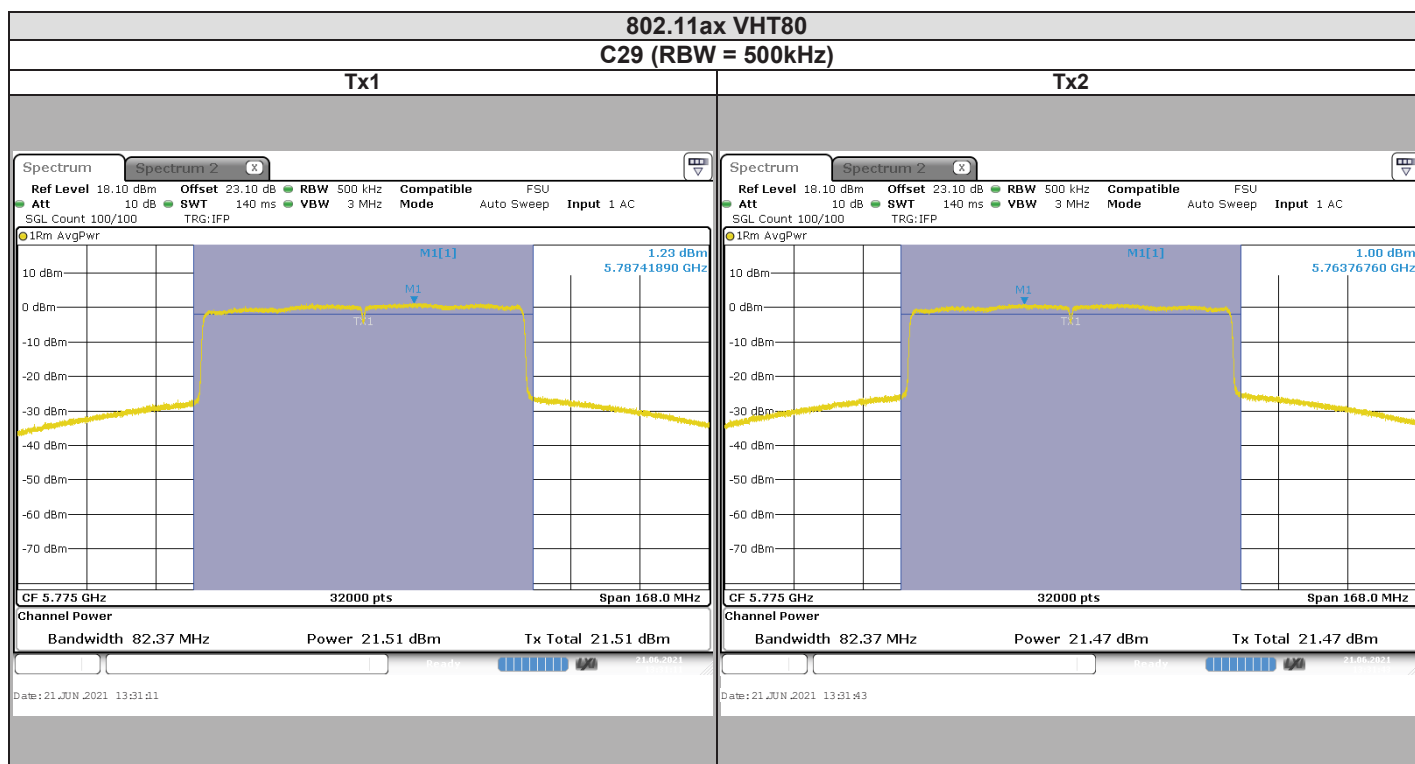
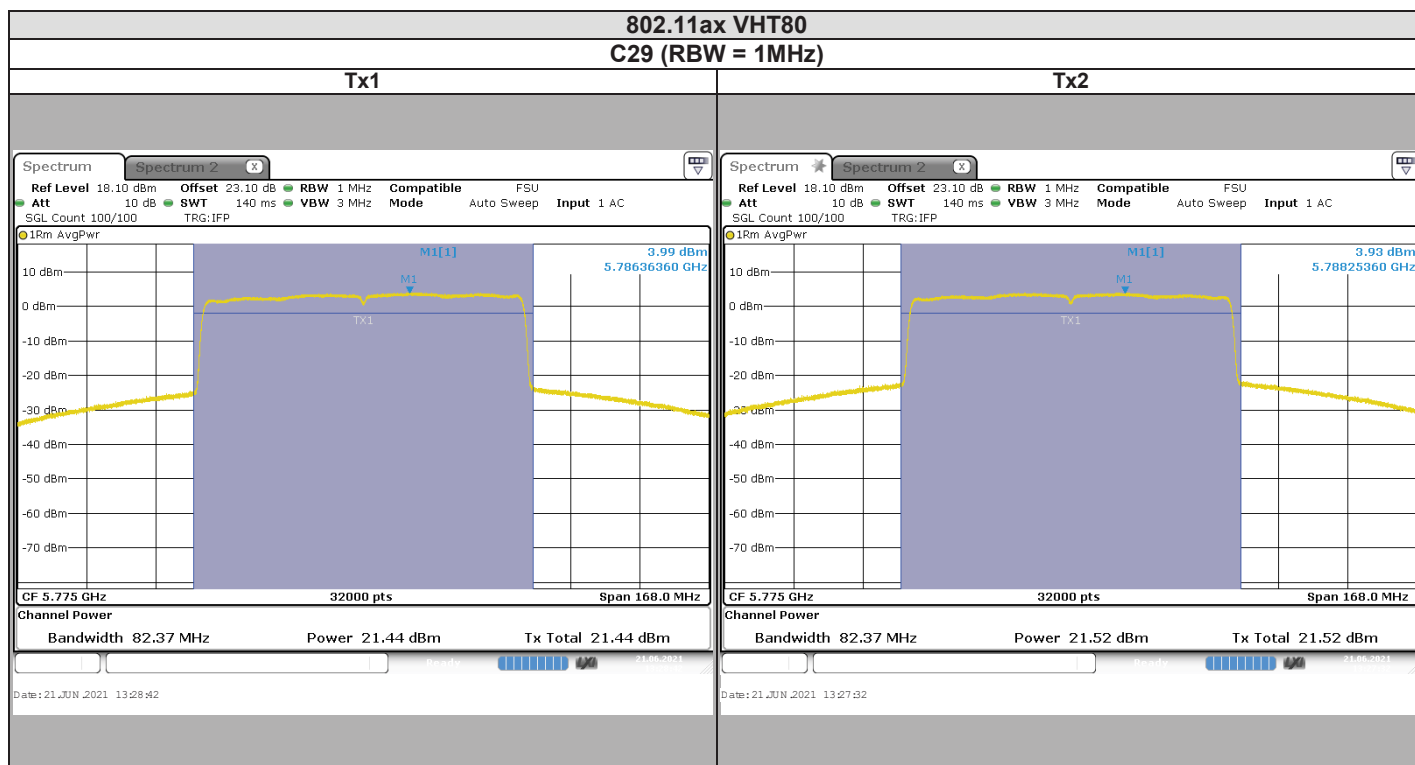
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Maximum Conducted Output Power, Maximum EIRP

802.11a

Channel	Tx1 (dBm)	Tx2 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx Limit RSS (dBm)	Tx EIRP (dBm)	EIRP Limit RSS (dBm)
C1	12,52	12,48	15,5	4,2	24		19,7	23
C2	13,64	13,64	16,7	4,2	24		20,9	23
C3	13,7	13,48	16,6	4,2	24		20,8	23
C4	14,71	14,53	17,6	4,86	24	24	22,5	23
C5	15,05	15,07	18,1	4,86	24	24	22,9	23
C6	14,6	14,65	17,6	4,86	24	24	22,5	23
C7	17,91	17,92	20,9	4,86	24	24	25,8	30
C8	18,6	18,63	21,6	4,86	24	24	26,5	30
C9	18,71	19,24	22,0	4,86	24	24	26,9	30
C10 Straddle 5470MHz-5725MHz	17,76	18,12	21,0	4,86	24	24	25,8	30
C10 Straddle 5725MHz-5850MHz	11,71	12	14,9	4,86	30	30	19,7	30
C11	23,03	23,45	26,3	4,86	30	30		
C12	23,09	23,52	26,3	4,86	30	30		
C13	23,05	23,32	26,2	4,86	30	30		

802.11n HT20/ac VHT20

Channel	Tx1 (dBm)	Tx2 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx Limit RSS (dBm)	Tx EIRP (dBm)	EIRP Limit RSS (dBm)
C1	12,68	12,56	15,6	4,2	24		19,8	23
C2	13,67	13,63	16,7	4,2	24		20,9	23
C3	13,6	13,61	16,6	4,2	24		20,8	23
C4	14,61	14,54	17,6	4,86	24	24	22,4	23
C5	14,63	14,54	17,6	4,86	24	24	22,5	23
C6	14,59	14,56	17,6	4,86	24	24	22,4	23
C7	17,88	17,95	20,9	4,86	24	24	25,8	30
C8	18,11	18,33	21,2	4,86	24	24	26,1	30
C9	18,17	18,68	21,4	4,86	24	24	26,3	30
C10 Straddle 5470MHz-5725MHz	17,68	17,88	20,8	4,86	24	24	25,7	30
C10 Straddle 5725MHz-5850MHz	12,1	12,36	15,2	4,86	30	30	20,1	30
C11	23,03	23,48	26,3	4,86	30	30		
C12	23,01	23,45	26,2	4,86	30	30		
C13	22,9	23,4	26,2	4,86	30	30		

802.11ax 20

Channel	Tx1 (dBm)	Tx2 (dBm)	TxAII (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx Limit RSS (dBm)	Tx EIRP (dBm)	EIRP Limit RSS (dBm)
C1	14,65	14,62	17,6	4,2	24		21,8	23
C2	14,37	14,4	17,4	4,2	24		21,6	23
C3	14,26	14,21	17,2	4,2	24		21,4	23
C4	14,91	14,79	17,9	4,86	24	24	22,7	23
C5	14,77	14,77	17,8	4,86	24	24	22,6	23
C6	14,95	14,84	17,9	4,86	24	24	22,8	23
C7	19,09	19,35	22,2	4,86	24	24	27,1	30
C8	19,26	19,54	22,4	4,86	24	24	27,3	30
C9	17,9	18,55	21,2	4,86	24	24	26,1	30
C10 Straddle 5470MHz-5725MHz	17,18	17,8	20,5	4,86	24	24	25,4	30
C10 Straddle 5725MHz-5850MHz	12,01	12,66	15,4	4,86	30	30	20,2	30
C11	23,36	23,68	26,5	4,86	30	30		
C12	23,23	23,62	26,4	4,86	30	30		
C13	23,08	23,55	26,3	4,86	30	30		

802.11n HT40/ac VHT40

Channel	Tx1 (dBm)	Tx2 (dBm)	TxAII (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx Limit RSS (dBm)	Tx EIRP (dBm)	EIRP Limit RSS (dBm)
C14	15,11	15,06	18,1	4,2	24		22,3	23
C15	15,26	15,22	18,3	4,2	24		22,5	23
C16	14,63	14,41	17,5	4,86	24	24	22,4	23
C17	14,59	14,32	17,5	4,86	24	24	22,3	23
C18	18,41	18,4	21,4	4,86	24	24	26,3	30
C19	19,76	20,24	23,0	4,86	24	24	27,9	30
C20	20,29	20,29	23,3	4,86	24	24	28,2	30
C21 Straddle 5470MHz-5725MHz	19,92	19,82	22,9	4,86	24	24	27,7	30
C21 Straddle 5725MHz-5850MHz	9,52	9,28	12,4	4,86	30	30	17,3	30
C22	23,19	23,41	26,3	4,86	30	30		
C23	23,37	23,43	26,4	4,86	30	30		

802.11ax 40

Channel	Tx1 (dBm)	Tx2 (dBm)	TxAII (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx Limit RSS (dBm)	Tx EIRP (dBm)	EIRP Limit RSS (dBm)
C14	15,3	15,37	18,3	4,2	24		22,5	23
C15	15,43	15,18	18,3	4,2	24		22,5	23
C16	15,01	14,54	17,8	4,86	24	24	22,7	23
C17	14,84	14,73	17,8	4,86	24	24	22,7	23
C18	18,26	17,89	21,1	4,86	24	24	25,9	30
C19	20,45	20,04	23,3	4,86	24	24	28,1	30
C20	19,47	19,4	22,4	4,86	24	24	27,3	30
C21 Straddle 5470MHz-5725MHz	20,04	19,95	23,0	4,86	24	24	27,9	30
C21 Straddle 5725MHz-5850MHz	10,46	10,16	13,3	4,86	30	30	18,2	30
C22	22,41	22,62	25,5	4,86	30	30		
C23	23,53	23,6	26,6	4,86	30	30		

802.11ac VHT80

Channel	Tx1 (dBm)	Tx2 (dBm)	TxAII (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx Limit RSS (dBm)	Tx EIRP (dBm)	EIRP Limit RSS (dBm)
C24	15,14	15,02	18,1	4,2	24		22,3	23
C25	18,5	18,37	21,4	4,86	24	24	26,3	23
C26	17,69	17,75	20,7	4,86	24	24	25,6	30
C27	19,92	20,24	23,1	4,86	24	24	28,0	30
C28 Straddle 5470MHz-5725MHz	19,82	20,11	23,0	4,86	24	24	27,8	30
C28 Straddle 5725MHz-5850MHz	5,78	5,85	8,8	4,86	30	30	13,7	30
C29	21,74	21,86	24,8	4,86	30	30	29,7	30

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Channel	Tx1 (dBm)	Tx2 (dBm)	TxAII (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx Limit RSS (dBm)	Tx EIRP (dBm)	EIRP Limit RSS (dBm)
C24	15,18	15,11	18,2	4,2	24		22,4	23
C25	15,59	15,08	18,4	4,86	24	24	23,2	23
C26	17,47	17,46	20,5	4,86	24	24	25,3	30
C27	19,91	20,21	23,1	4,86	24	24	27,9	30
C28 Straddle 5470MHz-5725MHz	20,31	20,3	23,3	4,86	24	24	28,2	30
C28 Straddle 5725MHz-5850MHz	6,2	6,23	9,2	4,86	30	30	14,1	30
C29	21,44	21,52	24,5	4,86	30	30	29,4	30

Maximum Power Spectral Density, Maximum EIRP Spectral Density

802.11a

Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)	Tx Limit RSS (dBm/MHz)	Tx EIRP (dBm/MHz)	EIRP Limit RSS (dBm/MHz)
C1	2,27	2,27	5,3	4,2	11		9,5	10
C2	2,21	2,27	5,3	4,2	11		9,5	10
C3	2,3	2,02	5,2	4,2	11		9,4	10
C4	3,27	3,12	6,2	4,86	11	11	11,1	
C5	3,6	3,64	6,6	4,86	11	11	11,5	
C6	4,32	4,44	7,4	4,86	11	11	12,3	
C7	7,68	7,72	10,7	4,86	11	11	15,6	
C8	7,16	7,2	10,2	4,86	11	11	15,1	
C9	7,24	7,82	10,5	4,86	11	11	15,4	
C10 Straddle 5470MHz-5725MHz	6,95	7,7	10,4	4,86	11	11	15,2	
C10 Straddle 5725MHz-5850MHz	4,31	4,05	7,2	4,86	30 (/500kHz)	30 (/500kHz)		
C11	8,58	9,38	12,0	4,86	30 (/500kHz)	30 (/500kHz)		
C12	8,78	9,32	12,1	4,86	30 (/500kHz)	30 (/500kHz)		
C13	8,69	9,17	11,9	4,86	30 (/500kHz)	30 (/500kHz)		

802.11n HT20/ac VHT20

Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)	Tx Limit RSS (dBm/MHz)	Tx EIRP (dBm/MHz)	EIRP Limit RSS (dBm/MHz)
C1	2,63	2,58	5,6	4,2	11		9,8	10
C2	2,43	2,44	5,4	4,2	11		9,6	10
C3	2,35	2,46	5,4	4,2	11		9,6	10
C4	2,8	2,74	5,8	4,86	11	11	10,6	
C5	2,86	2,74	5,8	4,86	11	11	10,7	
C6	4,09	4,05	7,1	4,86	11	11	11,9	
C7	7,38	7,45	10,4	4,86	11	11	15,3	
C8	6,35	6,56	9,5	4,86	11	11	14,3	
C9	6,36	6,92	9,7	4,86	11	11	14,5	
C10 Straddle 5470MHz-5725MHz	7,02	7,29	10,2	4,86	11	11	15,0	
C10 Straddle 5725MHz-5850MHz	3,48	4,03	6,8	4,86	30 (/500kHz)	30 (/500kHz)		
C11	8,92	8,42	11,7	4,86	30 (/500kHz)	30 (/500kHz)		
C12	8,37	8,9	11,7	4,86	30 (/500kHz)	30 (/500kHz)		
C13	8,28	8,28	11,3	4,86	30 (/500kHz)	30 (/500kHz)		

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Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	TxAII (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)	Tx Limit RSS (dBm/MHz)	Tx EIRP (dBm/MHz)	EIRP Limit RSS (dBm/MHz)
C1	2,71	2,67	5,7	4,2	11		9,9	10
C2	2,43	2,43	5,4	4,2	11		9,6	10
C3	2,4	2,31	5,4	4,2	11		9,6	10
C4	2,99	2,87	5,9	4,86	11	11	10,8	
C5	2,88	2,8	5,9	4,86	11	11	10,7	
C6	2,97	2,88	5,9	4,86	11	11	10,8	
C7	7,15	7,43	10,3	4,86	11	11	15,2	
C8	7,29	7,57	10,4	4,86	11	11	15,3	
C9	6,08	6,58	9,3	4,86	11	11	14,2	
C10 Straddle 5470MHz-5725MHz	6,48	7,12	9,8	4,86	11	11	14,7	
C10 Straddle 5725MHz-5850MHz	3,03	4,13	6,6	4,86	30 (/500kHz)	30 (/500kHz)		
C11	8,53	8,8	11,7	4,86	30 (/500kHz)	30 (/500kHz)		
C12	8,42	8,8	11,6	4,86	30 (/500kHz)	30 (/500kHz)		
C13	6,56	6,72	9,7	4,86	30 (/500kHz)	30 (/500kHz)		

802.11n HT40/ac VHT40

Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	TxAII (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)	Tx Limit RSS (dBm/MHz)	Tx EIRP (dBm/MHz)	EIRP Limit RSS (dBm/MHz)
C14	2,47	2,33	5,4	4,2	11		9,6	10
C15	1,21	1,24	4,2	4,2	11		8,4	10
C16	0,5	0,44	3,5	4,86	11	11	8,3	
C17	1,79	1,72	4,8	4,86	11	11	9,6	
C18	5,2	4,83	8,0	4,86	11	11	12,9	
C19	5,14	5,6	8,4	4,86	11	11	13,2	
C20	5,67	5,67	8,7	4,86	11	11	13,5	
C21 Straddle 5470MHz-5725MHz	5,74	5,65	8,7	4,86	11	11	13,6	
C21 Straddle 5725MHz-5850MHz	2,11	1,5	4,8	4,86	30 (/500kHz)	30 (/500kHz)	9,7	
C22	5,9	6,1	9,0	4,86	30 (/500kHz)	30 (/500kHz)		
C23	6,13	5,96	9,1	4,86	30 (/500kHz)	30 (/500kHz)		

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Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	TxAII (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)	Tx Limit RSS (dBm/MHz)	Tx EIRP (dBm/MHz)	EIRP Limit RSS (dBm/MHz)
C14	1,17	1,31	4,3	4,2	11		8,5	10
C15	1,43	1,18	4,3	4,2	11		8,5	10
C16	1,01	0,48	3,8	4,86	11	11	8,6	
C17	0,81	0,78	3,8	4,86	11	11	8,7	
C18	4,23	3,68	7,0	4,86	11	11	11,8	
C19	4,21	3,8	7,0	4,86	11	11	11,9	
C20	5,36	5,35	8,4	4,86	11	11	13,2	
C21 Straddle 5470MHz-5725MHz	6,51	6,26	9,4	4,86	11	11	14,3	
C21 Straddle 5725MHz-5850MHz	7,4	7,71	10,6	4,86	30 (/500kHz)	30 (/500kHz)	15,4	
C22	5,47	5,82	8,7	4,86	30 (/500kHz)	30 (/500kHz)		
C23	9,78	11,25	13,6	4,86	30 (/500kHz)	30 (/500kHz)		



802.11ac VHT80

Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	TxAI (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)	Tx Limit RSS (dBm/MHz)	Tx EIRP (dBm/MHz)	EIRP Limit RSS (dBm/MHz)
C24	-0,66	-0,55	2,4	4,2	11		6,6	10
C25	0,76	0,83	3,8	4,86	11	11	8,7	
C26	1,54	1,55	4,6	4,86	11	11	9,4	
C27	2,23	2,38	5,3	4,86	11	11	10,2	
C28 Straddle 5470MHz-5725MHz	2,56	2,76	5,7	4,86	11	11	10,5	
C28 Straddle 5725MHz-5850MHz	-1,47	-1,38	1,6	4,86	30 (/500kHz)	30 (/500kHz)		
C29	1,34	1,36	4,4	4,86	30 (/500kHz)	30 (/500kHz)		

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Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	TxAI (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)	Tx Limit RSS (dBm/MHz)	Tx EIRP (dBm/MHz)	EIRP Limit RSS (dBm/MHz)
C24	-1,77	-1,89	1,2	4,2	11		5,4	10
C25	-0,34	-0,85	2,4	4,86	11	11	7,3	
C26	0,52	0,43	3,5	4,86	11	11	8,3	
C27	3	3,15	6,1	4,86	11	11	10,9	
C28 Straddle 5470MHz-5725MHz	3,52	3,75	6,6	4,86	11	11	11,5	
C28 Straddle 5725MHz-5850MHz	2,74	2,78	5,8	4,86	30 (/500kHz)	30 (/500kHz)		
C29	1,23	1	4,1	4,86	30 (/500kHz)	30 (/500kHz)		

8.6. CONCLUSION

Maximum Conducted Output Power, Maximum Power Spectral Density, Maximum EIRP, Maximum EIRP Power Spectral Density measurement performed on the sample of the product **COGECO DIW3930 COGECO**, SN: **6211130035003**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407 & RSS 247 ISSUE 2** limits.

9. TRANSMIT POWER CONTROL

9.1. TEST CONDITIONS

Test performed by : Armand MAHOUNGOU
Date of test : June 17, 2021 to June 22, 2021
Ambient temperature : 27°C & 25°C
Relative humidity : 46% & 48%

9.2. TEST SETUP

- The Equipment Under Test is installed:

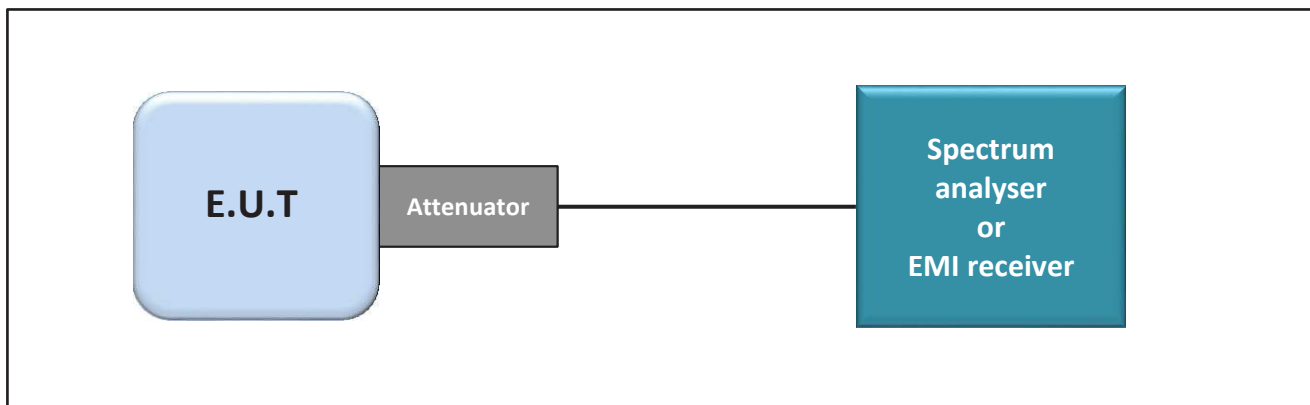
- ☒ On a table
- ☐ In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

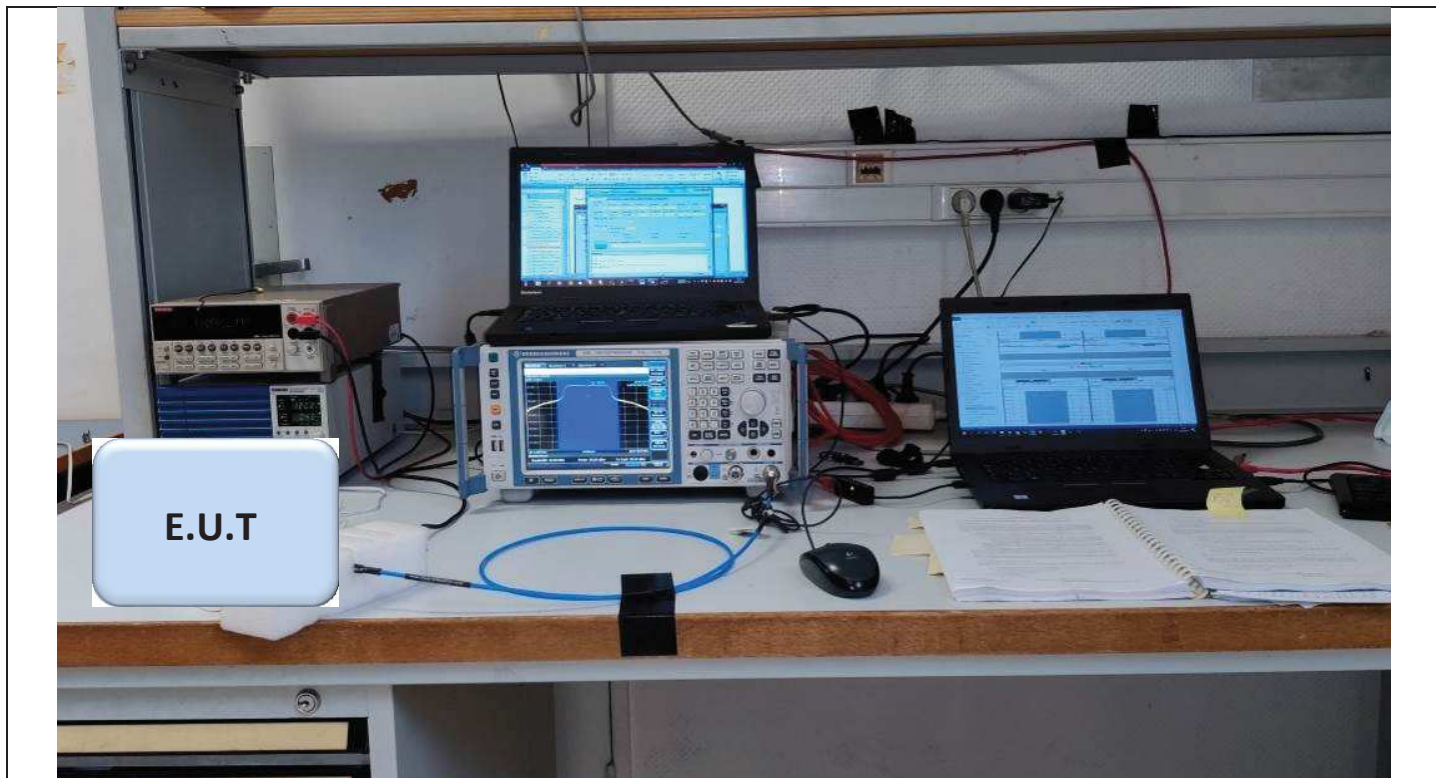
- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § E2 b) (Method SA-1)
- ☐ KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § E2 c) (Method SA-2)
- ☒ KDB 662911 D01 Multiple Transmitter Output v02r01



Test set up of Transmit Power Control



Photograph for Transmit Power Control

9.3. LIMIT

FCC Part 15.407 & RSS-247

TPC Min (EIRP):

5250MHz-5350MHz: Shall not exceed 24dBm

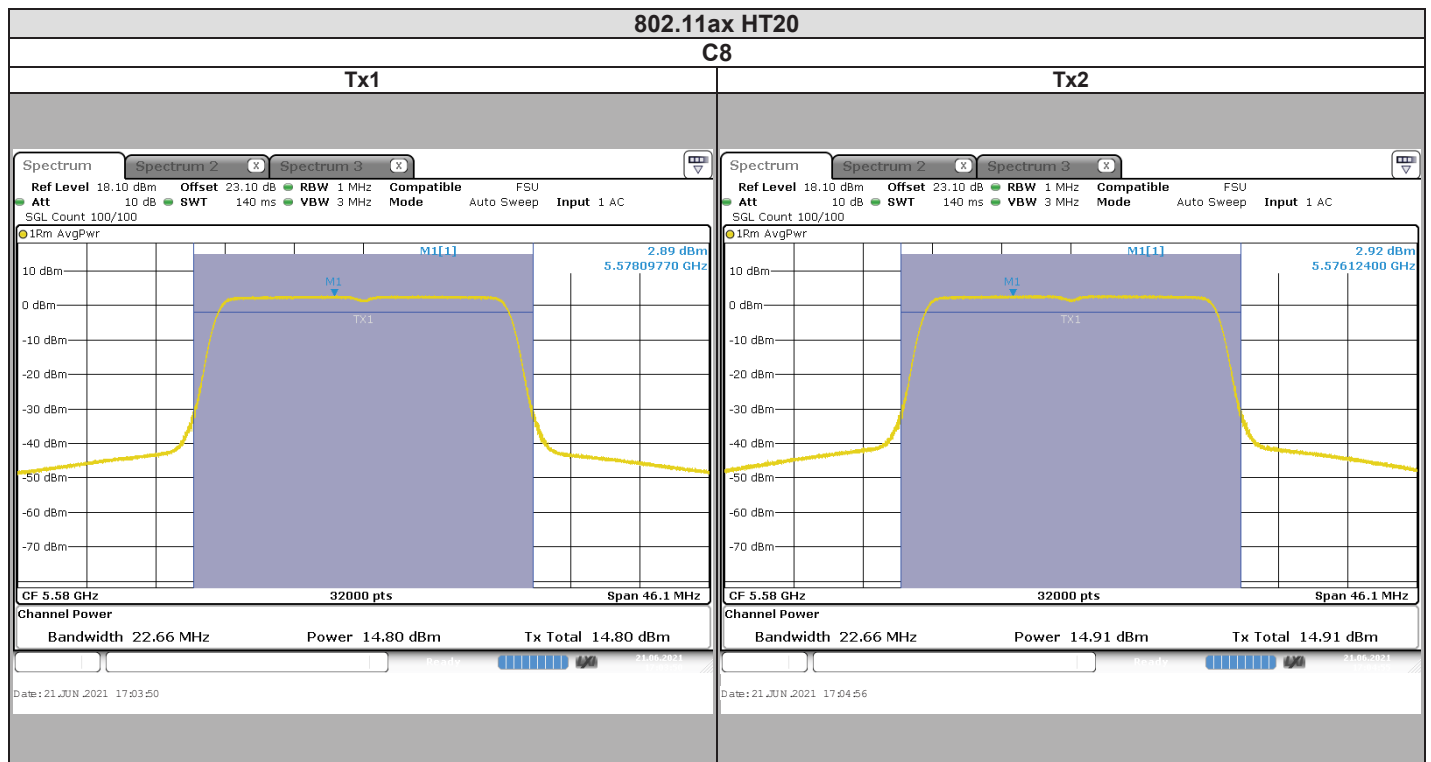
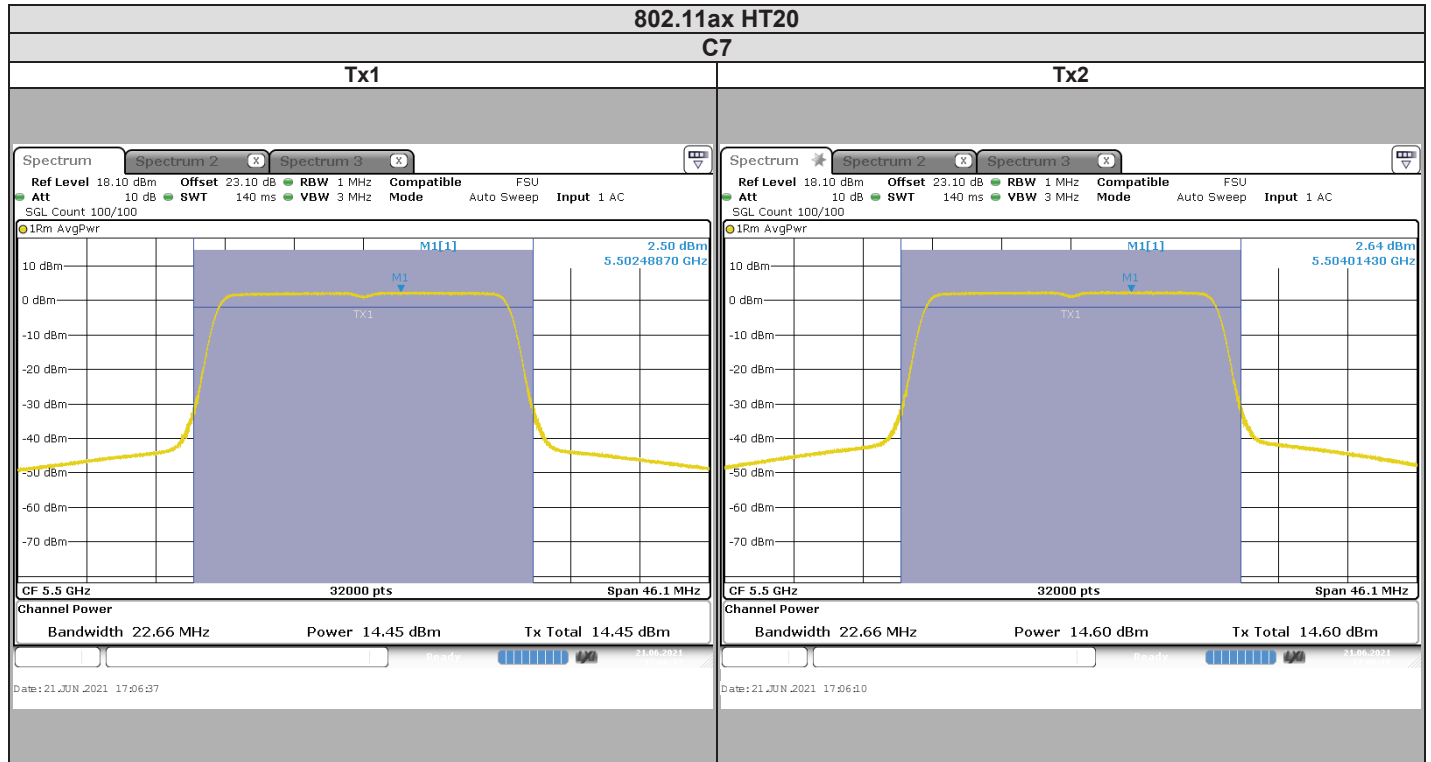
5470MHz-5725MHz: Shall not exceed 24dBm

9.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR7	A2642026	2019/07	2021/07
Cable + Attenuateur 20dB	PASTERNAK	PE350-150CM	A5329970	2020/09	2021/09
Power supply	KIKUSUI	PCR500M	A7049006	See Multimeter	See Multimeter
Multimeter	KEITHLEY	2000	A1242090	2021/03	2023/03
R&S Commander Software	ROHDE & SCHWARZ	Version 1,6,4	-	-	-
Load 50 ohms	TELEGARTNER	-	A7150103	2021/04	2023/04
Load 50 ohms	TELEGARTNER	-	A7150104	2021/04	2023/04

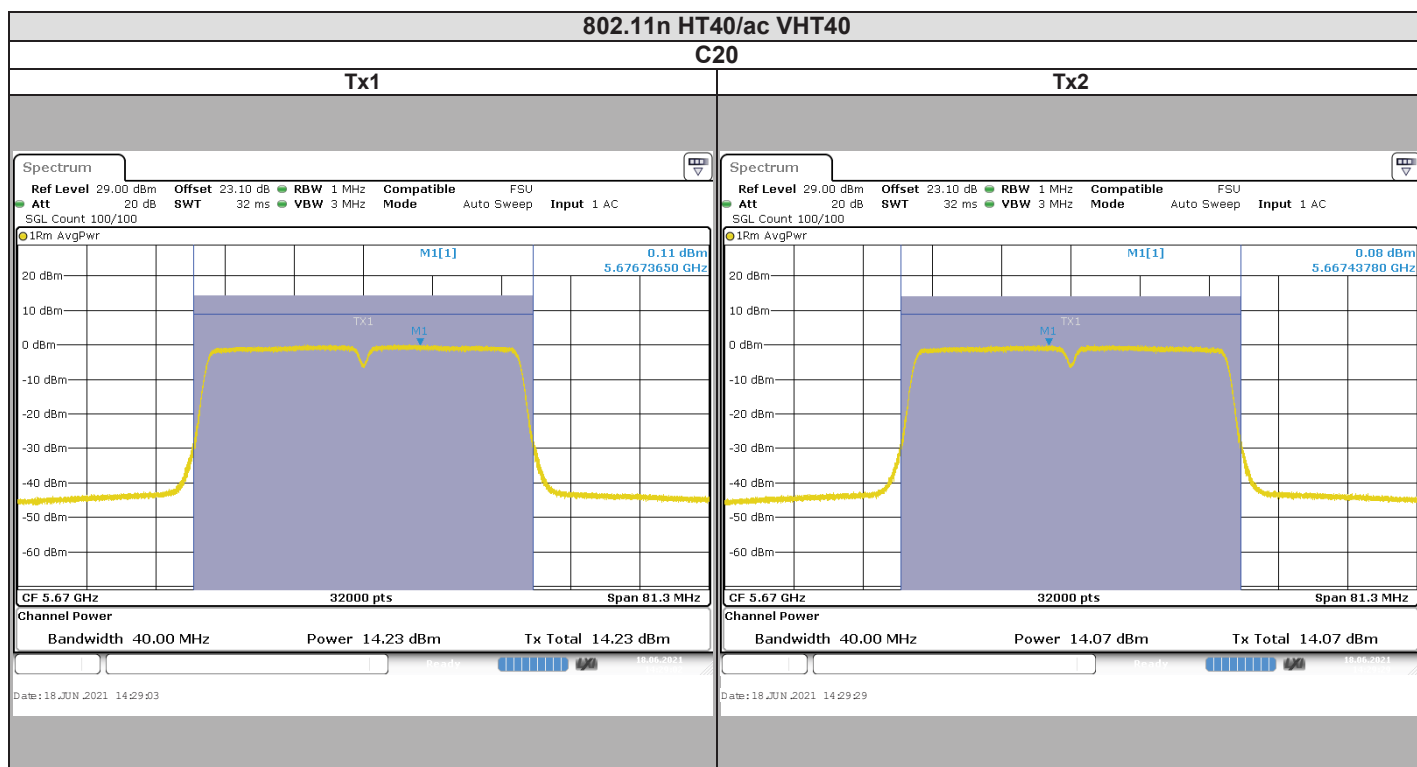
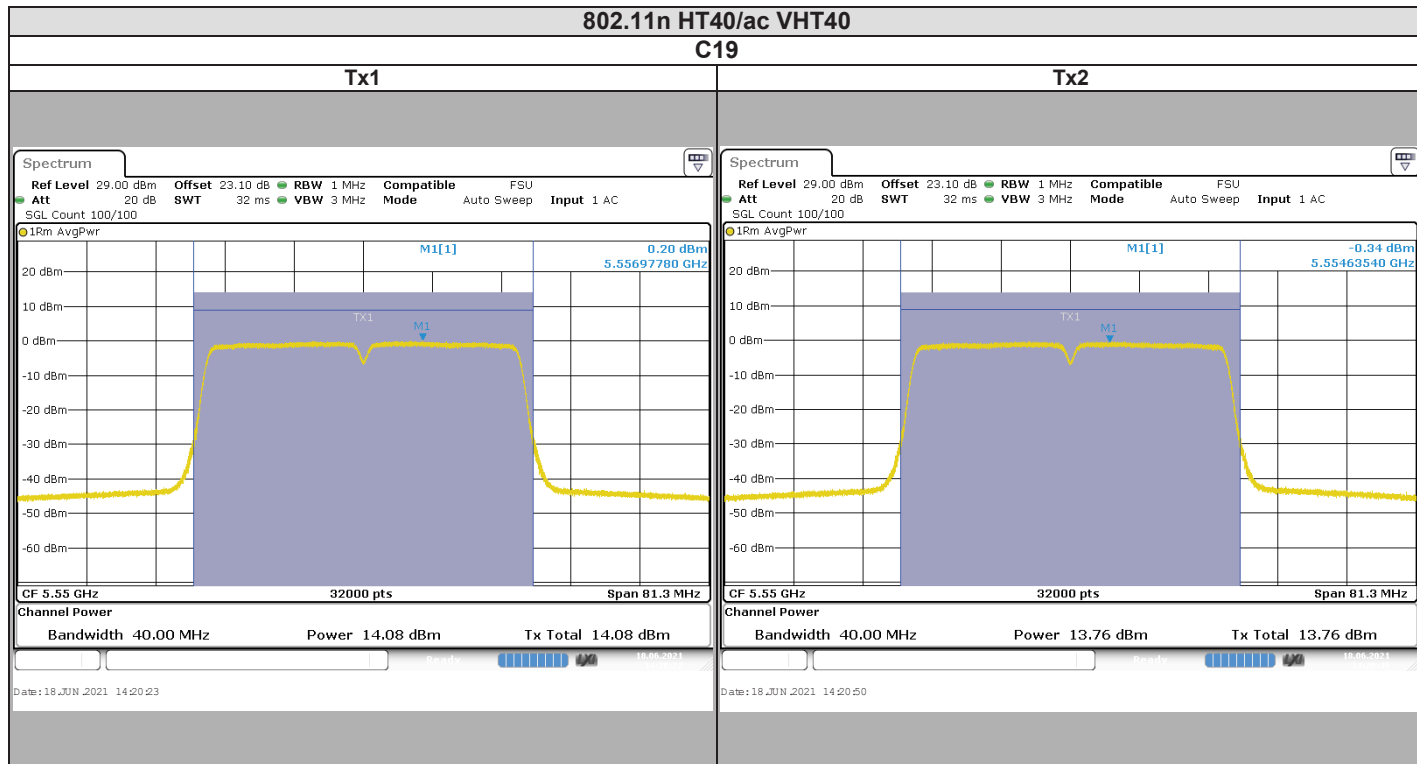
Note: In our quality system, the test equipment calibration due is more & less 2 months

9.5. RESULTS





L C I E





L C I E

