



Fatma BORAN
Furkan DOLEK

Standalone Arapuca

intro

- Total 302 runs
- 132 run (E=0 and after injection)
 - 9 dope1
 - 28 dope 2
 - 57 dope 3
 - 31 dope 4
 - 7 dope 5

	dope1	flat1	dope2	flat2	dope3	flat3	dope4	flat4	dope5	flat5
1										
2	2020-02-13_19-27-47	2020-02-15_08-01-01	2020-02-26_17-25-27	2020-03-05_16-34-38	2020-04-03_12-51-31	2020-04-08_17-59-40	2020-04-27_12-20-31	2020-04-30_13-29-02	2020-05-15_15-34-11	2020-05-20_11-40-57
3	2020-02-14_00-34-41	2020-02-15_19-27-13	2020-02-26_22-37-37	2020-03-05_20-40-54	2020-04-03_15-14-55	2020-04-08_22-12-07	2020-04-27_15-01-54	2020-04-30_16-46-13	2020-05-15_20-57-11	2020-05-20_15-25-24
4	2020-02-14_07-35-13	2020-02-20_19-23-41	2020-02-27_10-16-47	2020-03-06_11-10-01	2020-04-03_20-23-12	2020-04-08_01-32-23	2020-04-27_17-34-59	2020-04-30_19-58-30	2020-05-16_10-47-31	2020-05-20_18-20-41
5	2020-02-14_23-04-44	2020-03-21_14-17-51	2020-03-27_15-48-53	2020-03-07_12-56-31	2020-04-04_01-04-19	2020-04-09_10-35-33	2020-04-27_20-29-59	2020-04-30_22-41-42	2020-05-16_14-16-31	2020-05-20_23-21-09
6		2020-02-21_17-03-34	2020-02-27_20-44-12	2020-03-08_00-12-02	2020-04-04_08-40-01	2020-04-09_14-30-15	2020-04-28_00-06-47	2020-05-01_05-34-27	2020-05-16_16-48-31	2020-05-21_10-36-58
7		2020-02-22_17-12-50	2020-02-27_23-53-44	2020-03-08_13-34-03	2020-04-04_14-25-02	2020-04-09_17-01-07	2020-04-28_07-22-43	2020-05-01_10-26-53	2020-05-16_20-46-21	2020-05-21_16-35-15
8		2020-02-23_16-29-08	2020-02-28_08-54-47	2020-03-08_22-30-36	2020-04-04_19-56-49	2020-04-09_20-32-27	2020-04-28_11-55-24	2020-05-01_19-45-38	2020-05-16_23-41-08	2020-05-21_19-56-31
9		2020-02-23_20-23-44	2020-02-28_12-31-10	2020-03-09_10-31-34	2020-04-05_01-32-08	2020-04-10_00-11-59	2020-04-28_22-17-55	2020-05-02_10-39-32	2020-05-17_09-26-11	2020-05-22_11-11-36
10		2020-02-24_10-52-25	2020-02-28_18-28-36	2020-03-12_14-22-29	2020-04-05_11-28-18	2020-04-10_12-05-10	2020-04-29_04-17-14	2020-05-02_13-05-55	2020-05-17_12-38-41	2020-05-25_11-30-02
11		2020-02-29_15-49-01	2020-03-12_16-51-38	2020-04-05_14-17-13	2020-04-10_15-16-57	2020-04-29_10-25-31	2020-05-02_16-07-53	2020-05-17_15-27-51	2020-05-25_21-25-11	
12		2020-03-03_16-19-55	2020-03-13_10-48-54	2020-04-05_19-12-38	2020-04-10_20-40-19	2020-04-29_13-14-41	2020-05-02_18-36-31	2020-05-17_21-10-31	2020-05-25_18-50-57	
13		2020-03-03_22-45-07	2020-03-13_13-20-34	2020-04-06_00-56-50	2020-04-11_00-26-19	2020-04-29_17-15-18	2020-05-02_21-41-21	2020-05-18_11-04-31	2020-05-26_00-07-01	
14		2020-03-14_14-03-06	2020-04-06_12-20-51	2020-04-11_11-39-39	2020-04-29_20-12-35	2020-05-03_10-59-22	2020-05-18_13-36-21	2020-05-26_11-07-20		
15		2020-03-16_01-12-03	2020-04-06_19-23-56	2020-04-11_15-10-25	2020-04-29_23-12-31	2020-05-03_13-57-08	2020-05-18_18-49-41	2020-05-26_16-47-21		
16		2020-03-24_19-28-00	2020-04-06_21-54-02	2020-04-11_18-53-33	2020-04-30_02-10-17	2020-05-03_18-41-09	2020-05-18_22-28-04	2020-05-27_01-20-02		
17		2020-03-25_09-44-25	2020-04-07_00-31-12	2020-04-12_23-15-50	2020-04-30_09-02-12	2020-05-03_20-36-11	2020-05-19_00-58-51	2020-05-27_09-07-44		
18		2020-03-25_22-08-20	2020-04-07_12-57-51	2020-04-13_10-01-06		2020-05-04_08-56-08	2020-05-19_06-20-45	2020-05-27_12-35-13		
19		2020-03-26_11-50-33	2020-04-07_16-12-17	2020-04-13_14-15-05		2020-05-04_12-20-38	2020-05-19_10-57-31	2020-05-27_18-35-06		
20		2020-03-27_11-12-54	2020-04-07_20-53-23	2020-04-13_17-42-38		2020-05-04_16-50-59	2020-05-19_14-28-21	2020-05-27_22-31-43		
21		2020-03-27_13-43-43	2020-04-08_00-10-37	2020-04-13_20-36-12		2020-05-05_09-51-40	2020-05-19_23-05-11	2020-05-28_08-27-32		
22		2020-03-27_16-58-11			2020-04-14_09-02-49		2020-05-05_13-57-17	2020-05-20_09-07-51	2020-05-28_11-24-50	
23		2020-03-28_12-34-46			2020-04-14_13-25-18		2020-05-05_18-51-09	2020-05-17_18-03-21	2020-05-28_18-00-26	
24		2020-03-28_16-08-07			2020-04-14_18-27-16		2020-05-05_22-22-49	2020-05-19_19-14-41	2020-05-28_18-21-19	
25		2020-03-28_20-21-37			2020-04-14_22-21-24		2020-05-06_10-27-33		2020-05-28_23-19-12	
26		2020-03-29_11-53-05			2020-04-15_12-05-43		2020-05-06_13-34-06		2020-05-29_07-31-50	
27		2020-03-29_15-48-35			2020-04-15_15-20-47		2020-05-06_16-59-01		2020-06-02_10-49-15	
28		2020-03-29_19-14-10			2020-04-15_19-05-56		2020-05-06_20-10-36		2020-06-02_10-50-10	
29		2020-03-29_21-44-54			2020-04-15_21-45-00		2020-05-07_10-23-06		2020-06-02_15-10-08	
30		2020-03-30_09-28-09			2020-04-16_09-38-35		2020-05-07_13-33-30		2020-06-02_19-22-03	
31		2020-03-30_13-03-04			2020-04-16_13-20-33		2020-05-07_20-13-29		2020-06-02_22-23-02	
32										

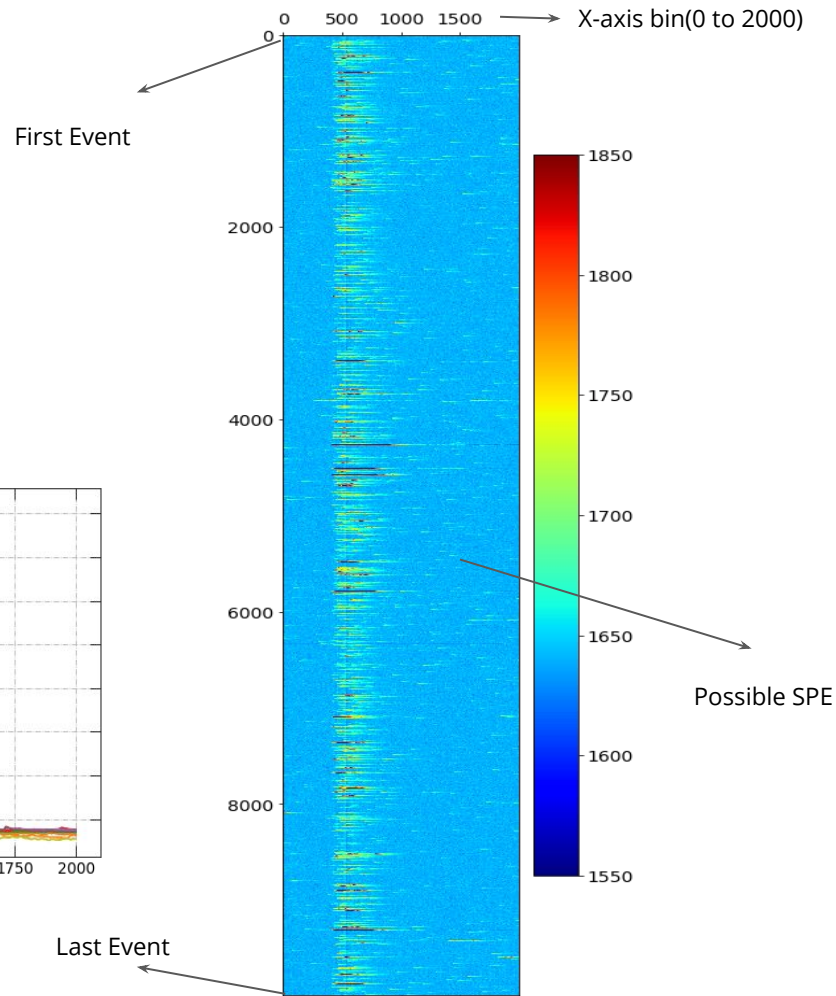
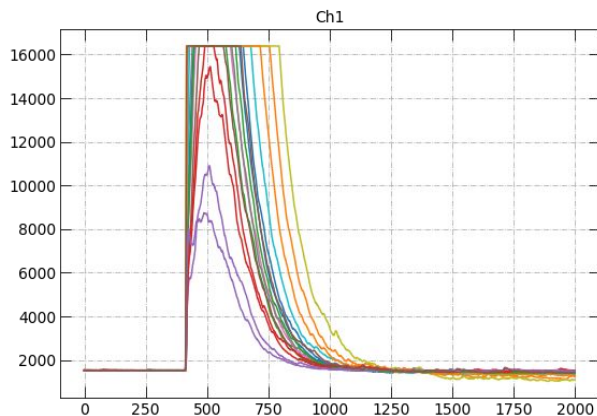
Here, [runtable](#)

Run 2020-04-09_20-32-27

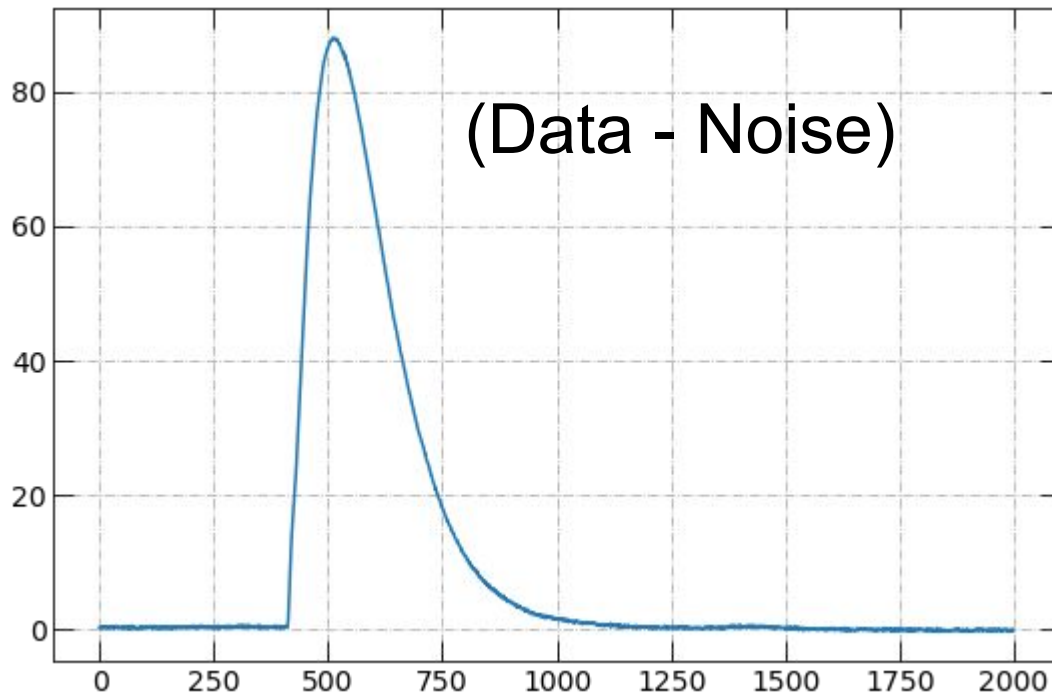
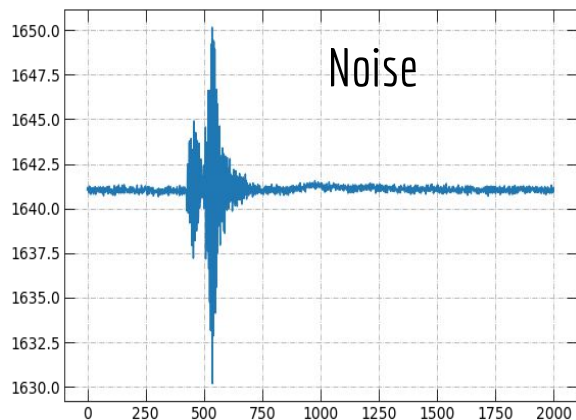
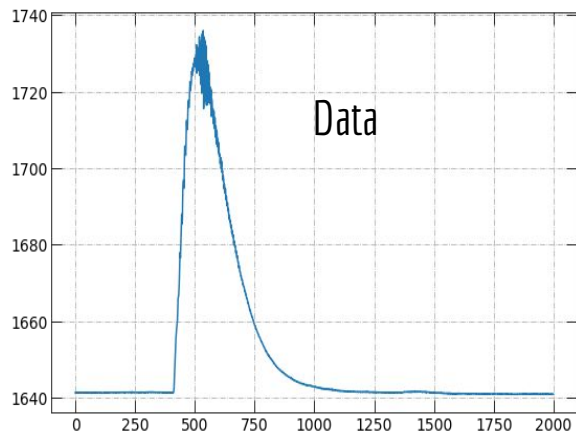
2D [2000X10000] pixels

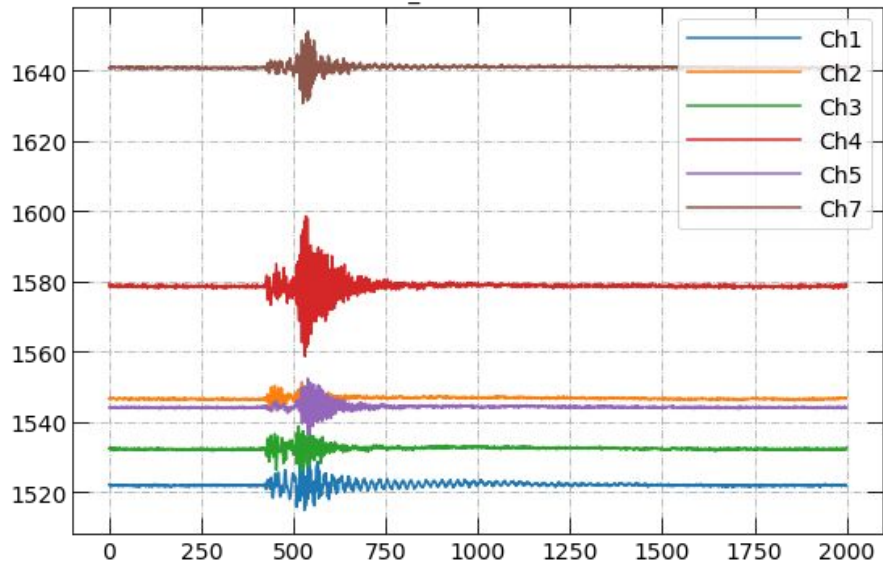
Saturation already subtracted

saturation value **16383**



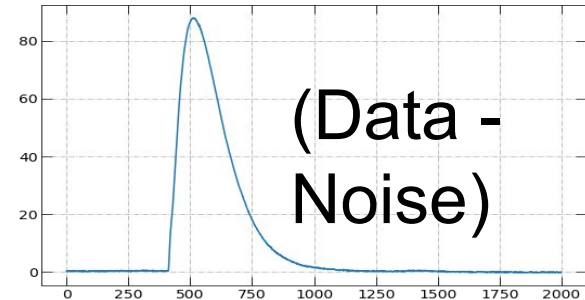
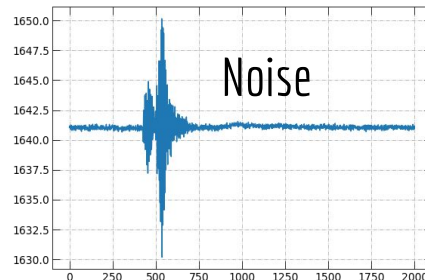
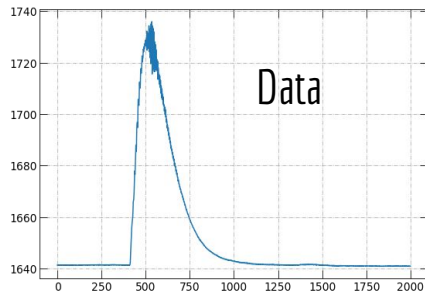
Denoise



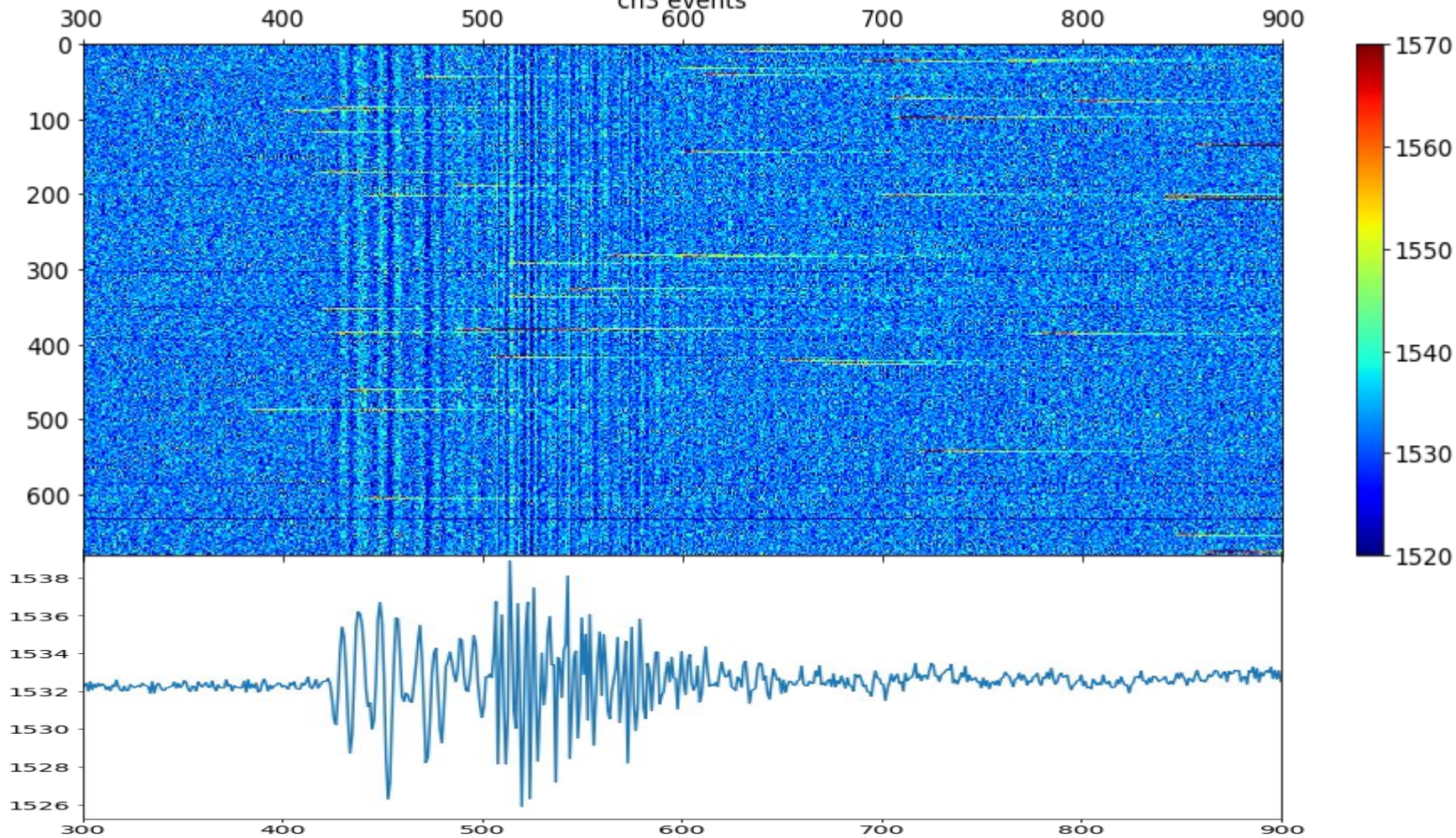


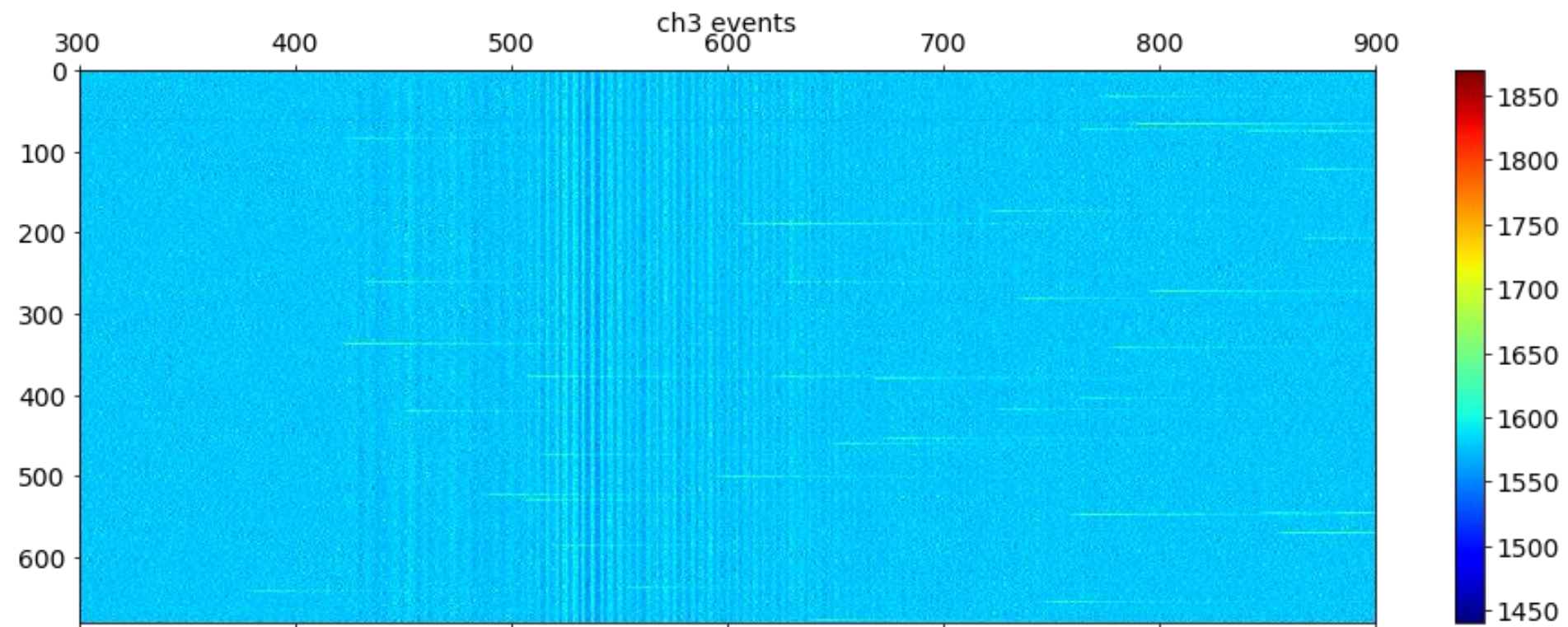
- Signal denoised
- Baseline subtracted, by using denoised average signal
- Calculated for each channels

Method: Linear regress
Slope, r_value, p_value, intercept, std_err



ch3 events

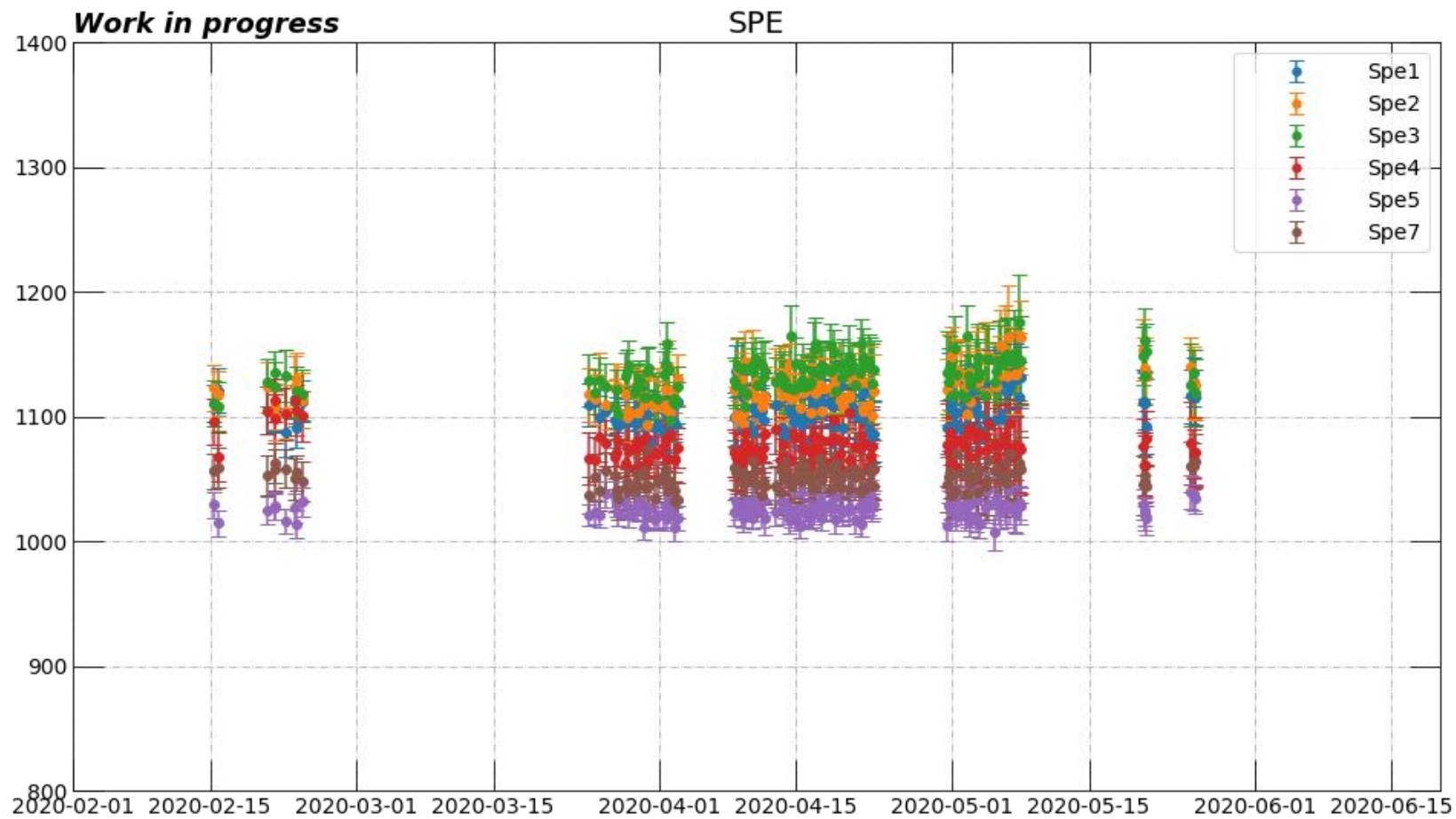




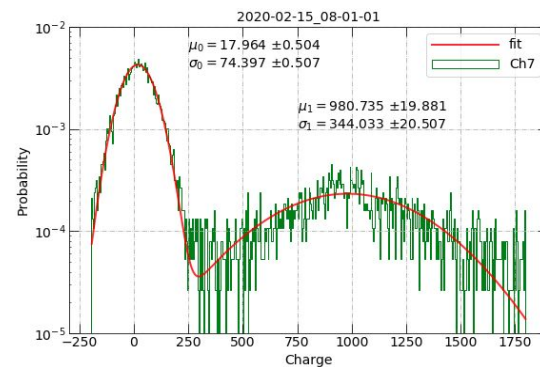
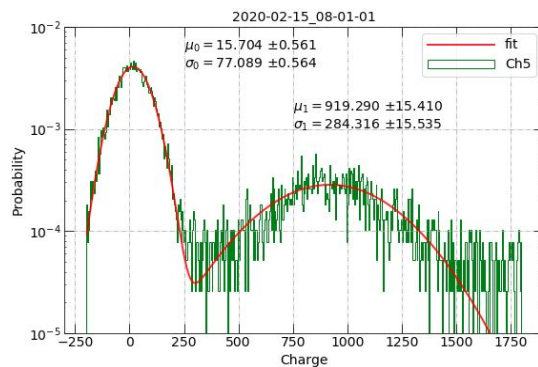
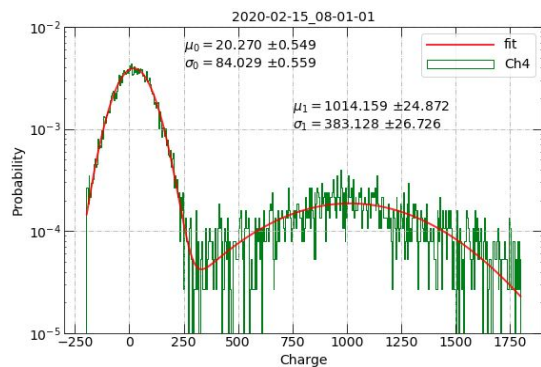
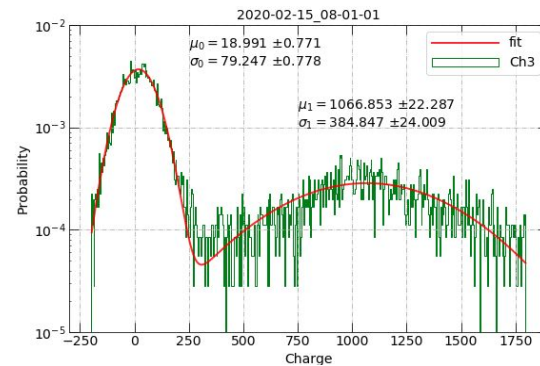
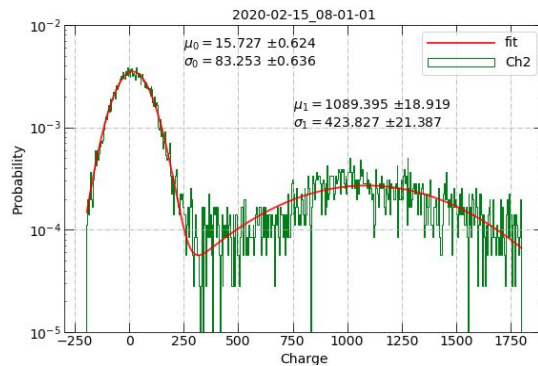
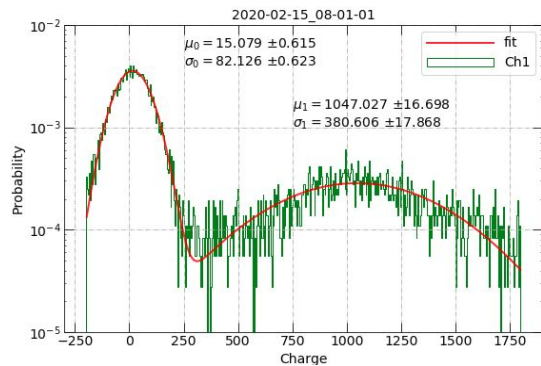
ALL runs



ALL runs

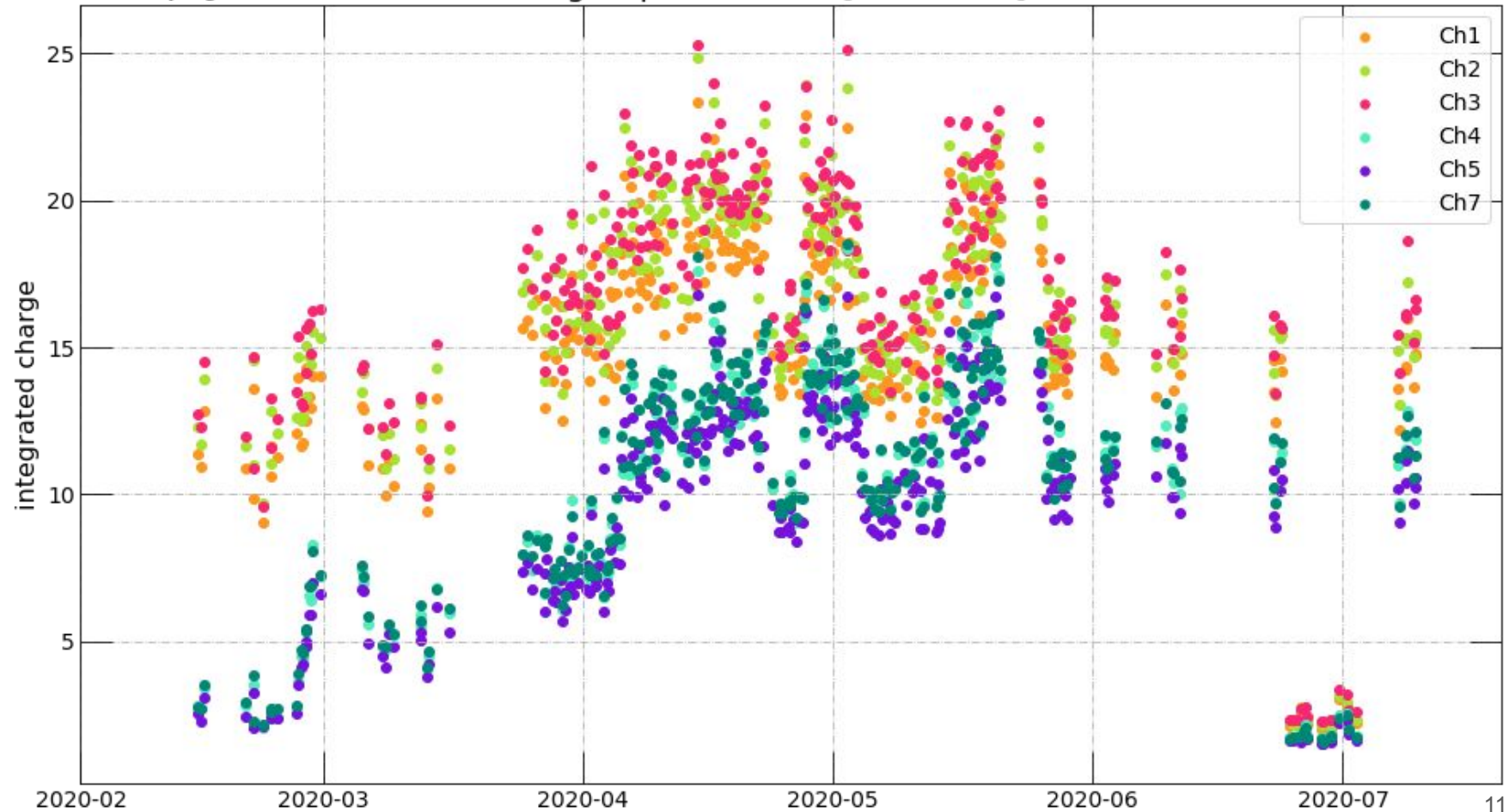


SPE

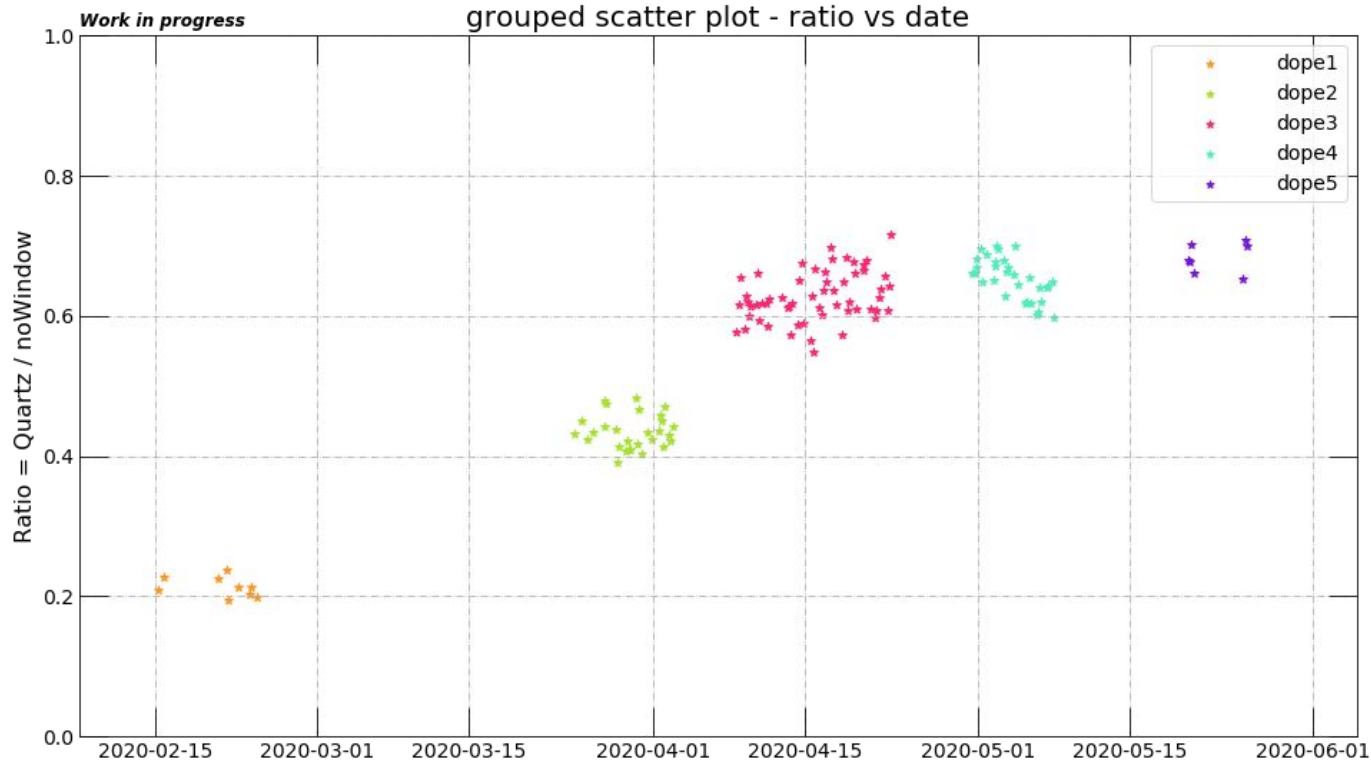


Work in progress

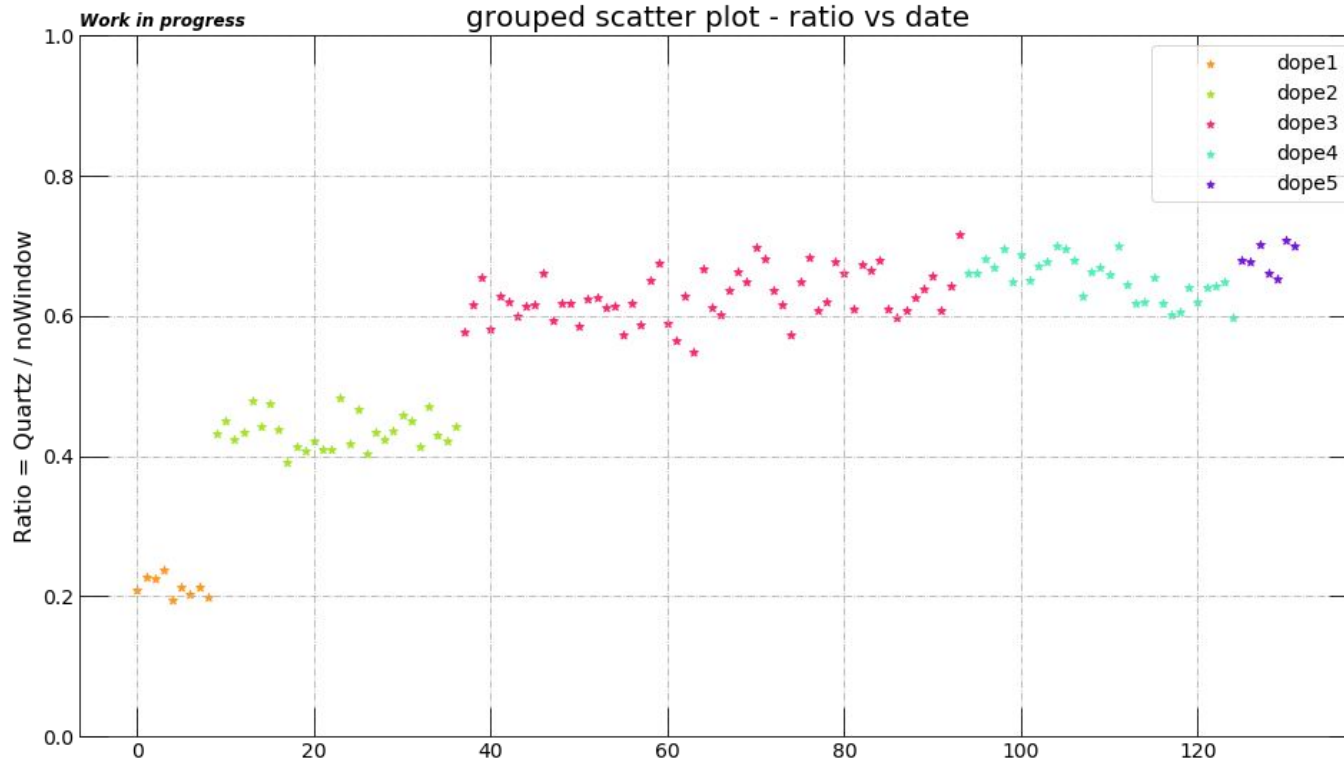
grouped scatter [calibrated]

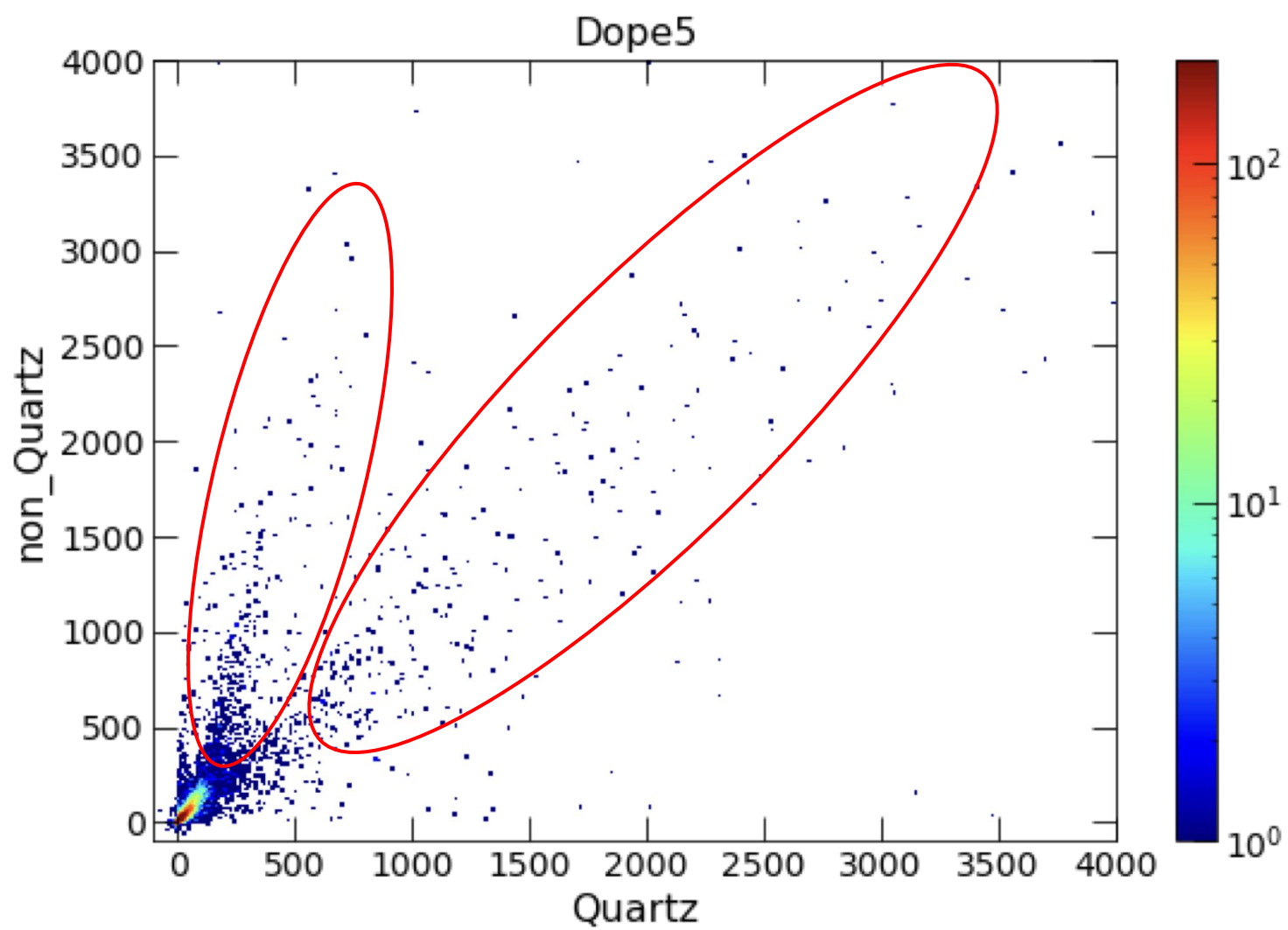


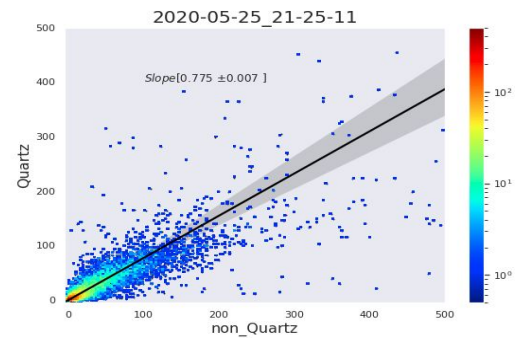
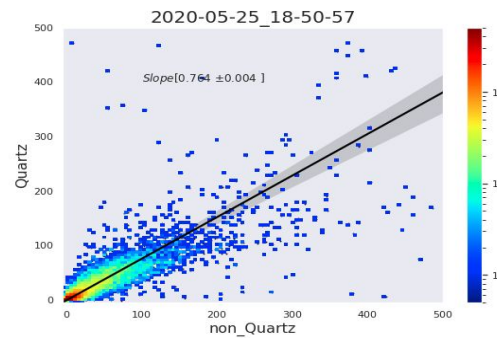
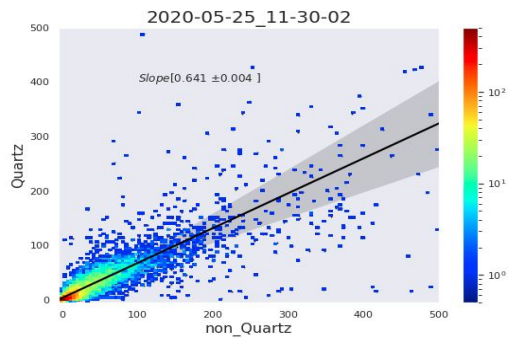
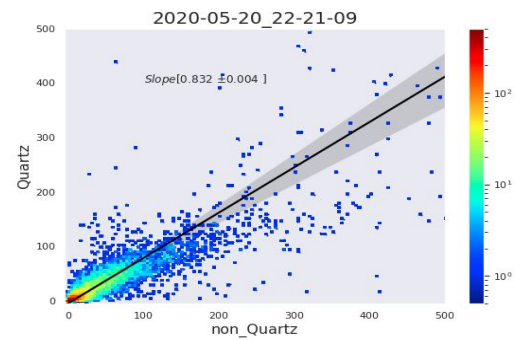
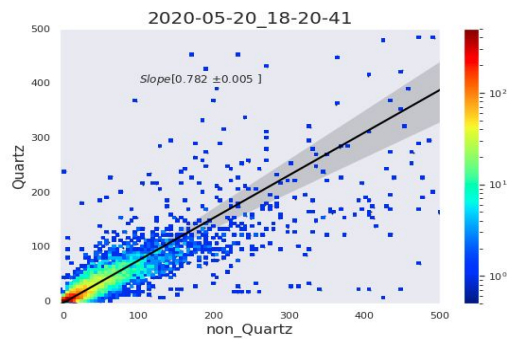
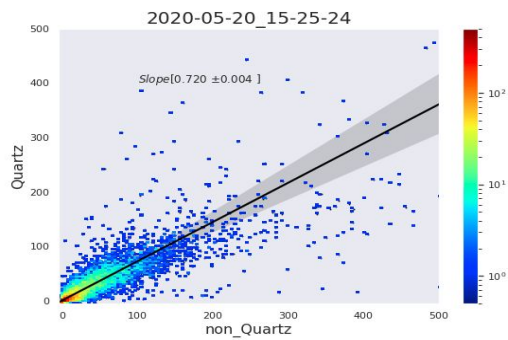
Ratio calibrated each SPE



Ratio calibrated each SPE



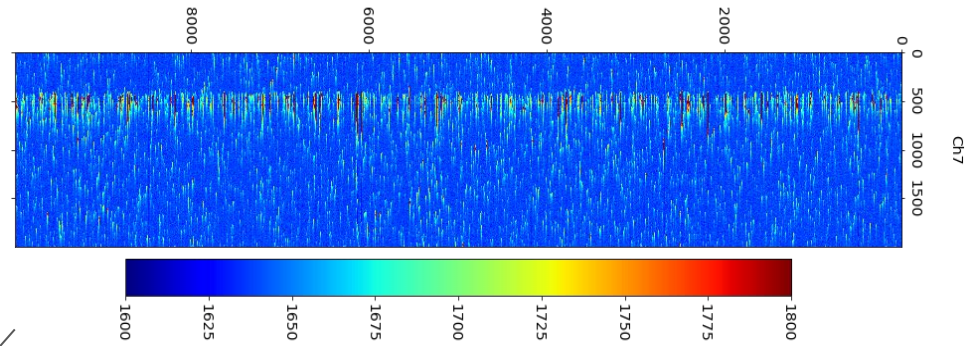
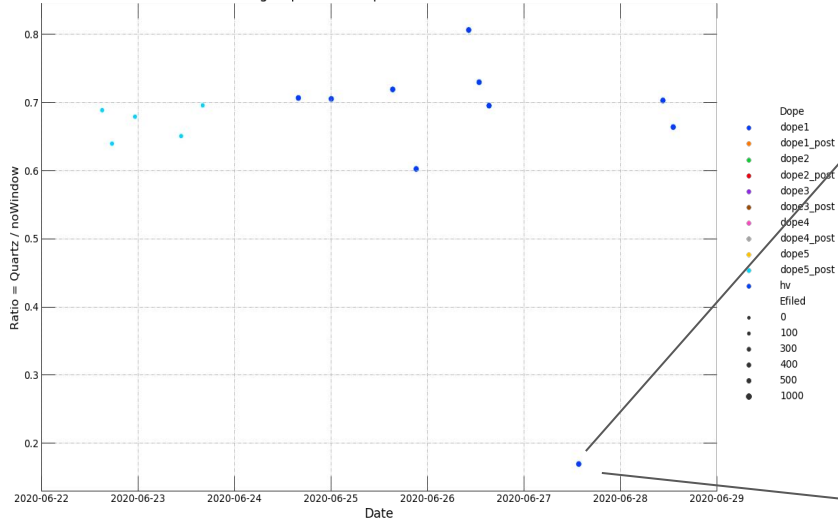




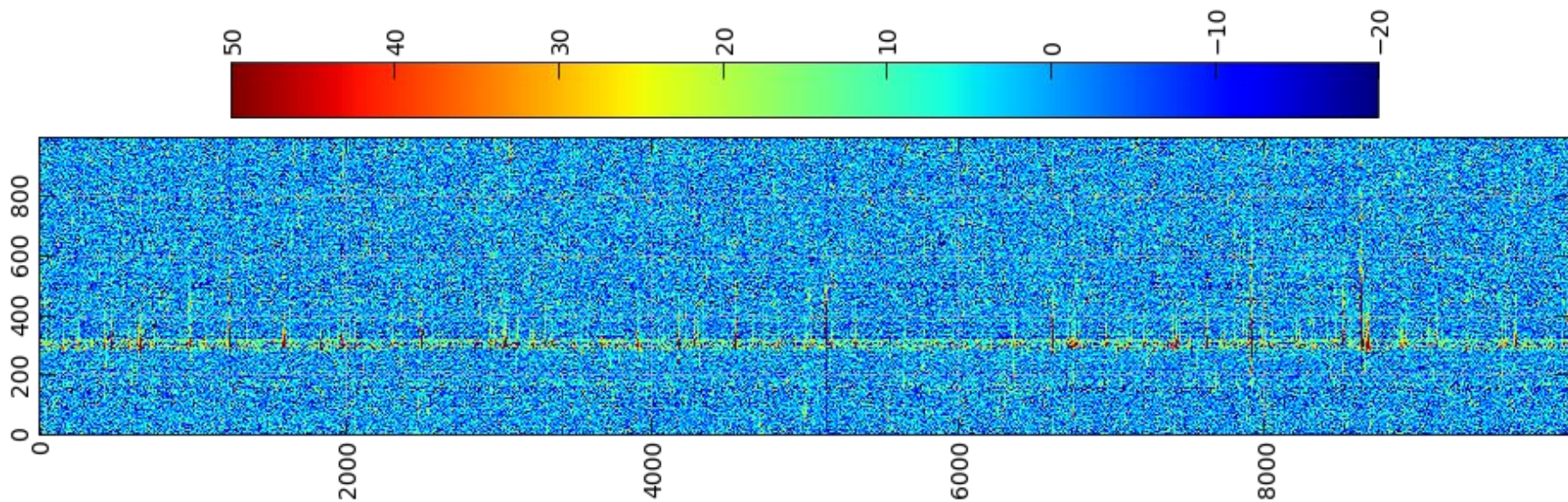
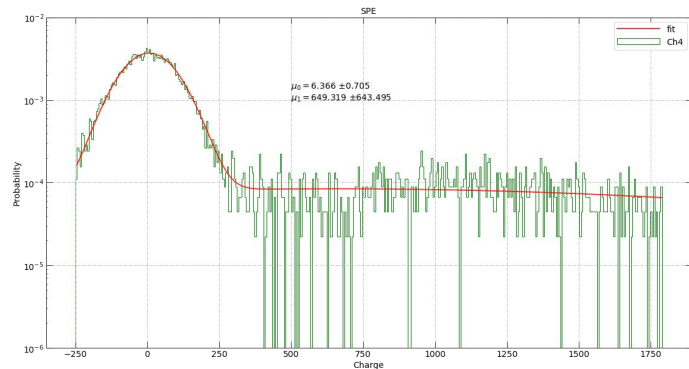
backup

Run 2020-06-27 streaming

grouped scatter plot - ratio vs date



Bad runs ,
2020-03-03_22-45-07
CH4



CH1

CH2

CH3

CH4

CH5

CH7

0 500 1000 1500

0 500 1000 1500

0 500 1000 1500

0 500 1000 1500

0 500 1000 1500

0 500 1000 1500

