

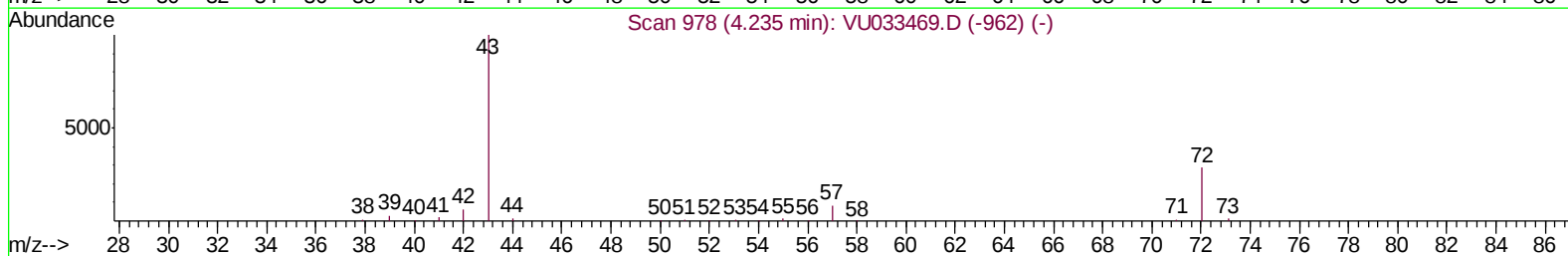
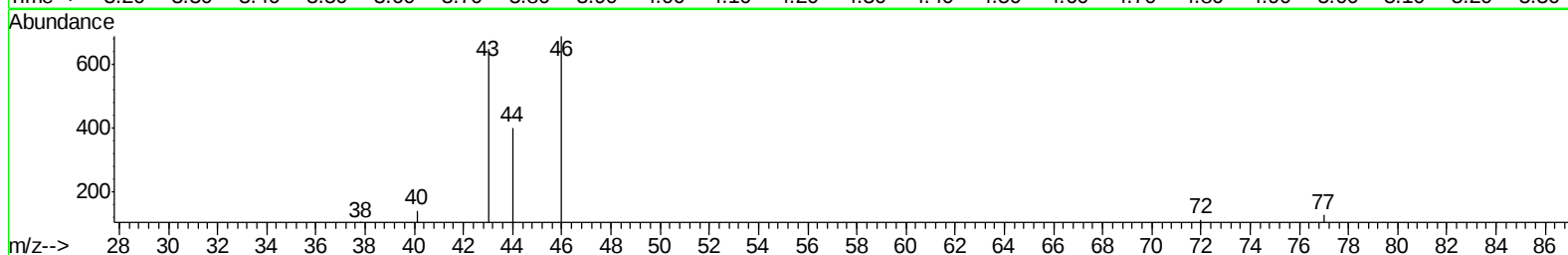
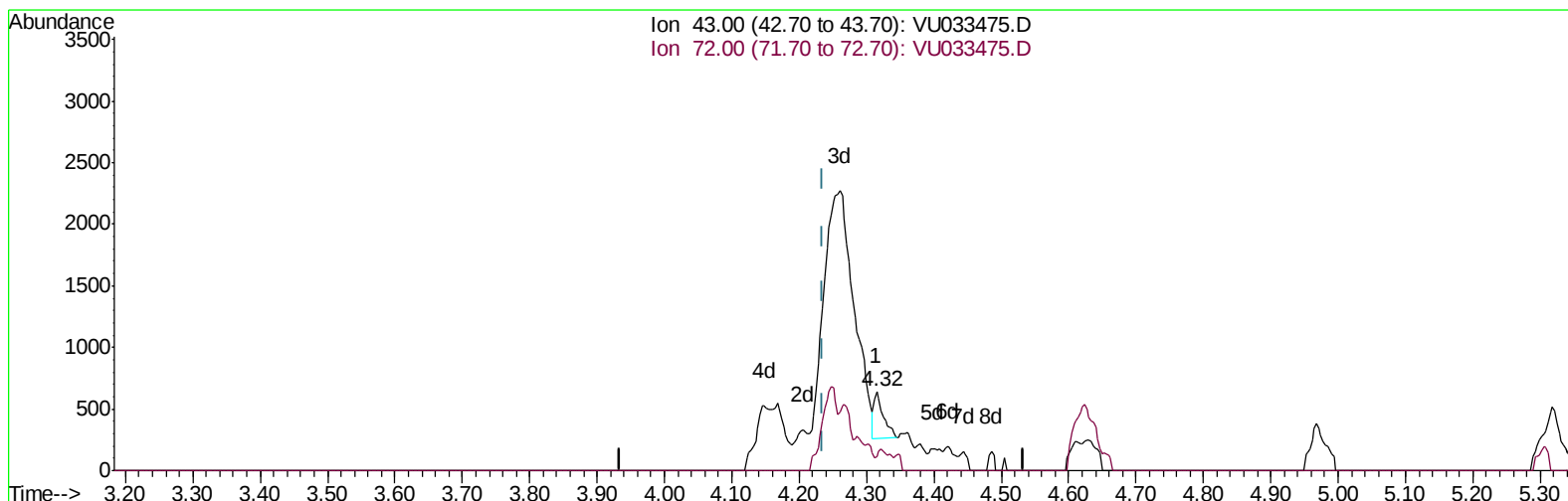
Data File : VU033475.D
Acq On : 29 Jul 2019 18:04
Operator : JC/SP
Sample : MDL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Manual Integrations
APPROVED

MMDadoda
7/30/2019 3:00:55 PM

Quant Time: Jul 30 04:16:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM072919W.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 30 04:12:14 2019
Response via : Initial Calibration



TIC: VU033475.D

(22) 2-Butanone (T)
4.315min (+0.080) 0.21ug/L

response 360

Ion	Exp%	Act%
43.00	100	100
72.00	28.20	36.39
0.00	0.00	0.00
0.00	0.00	0.00

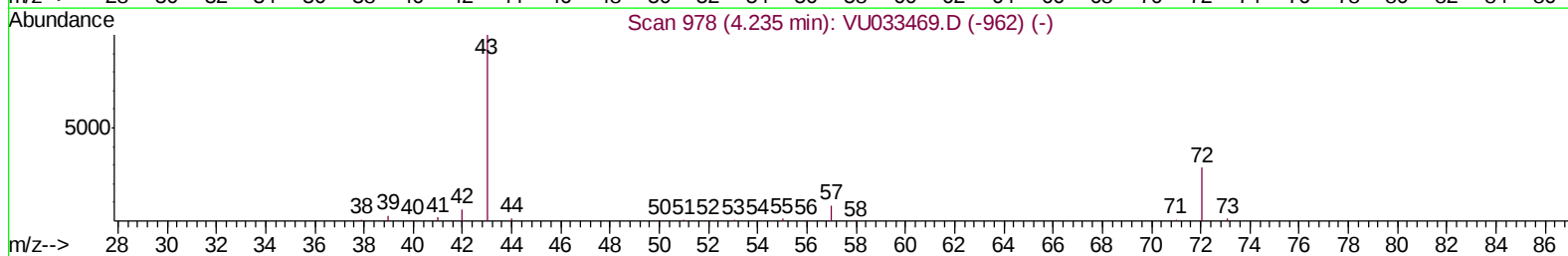
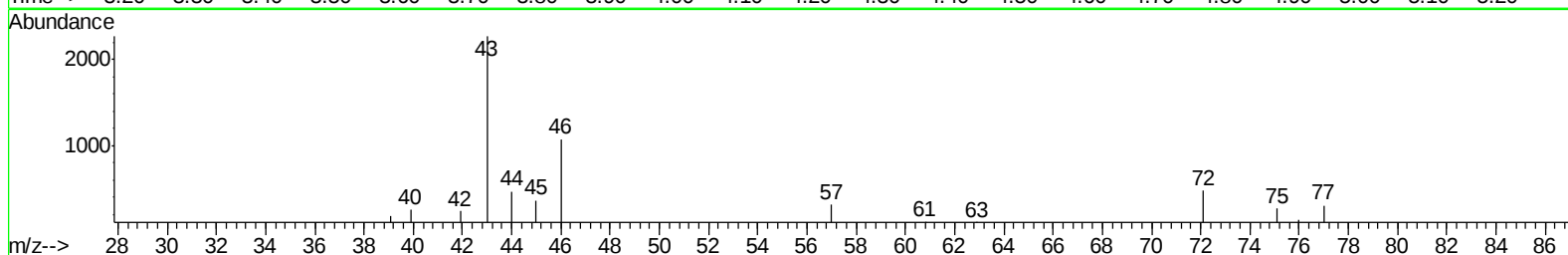
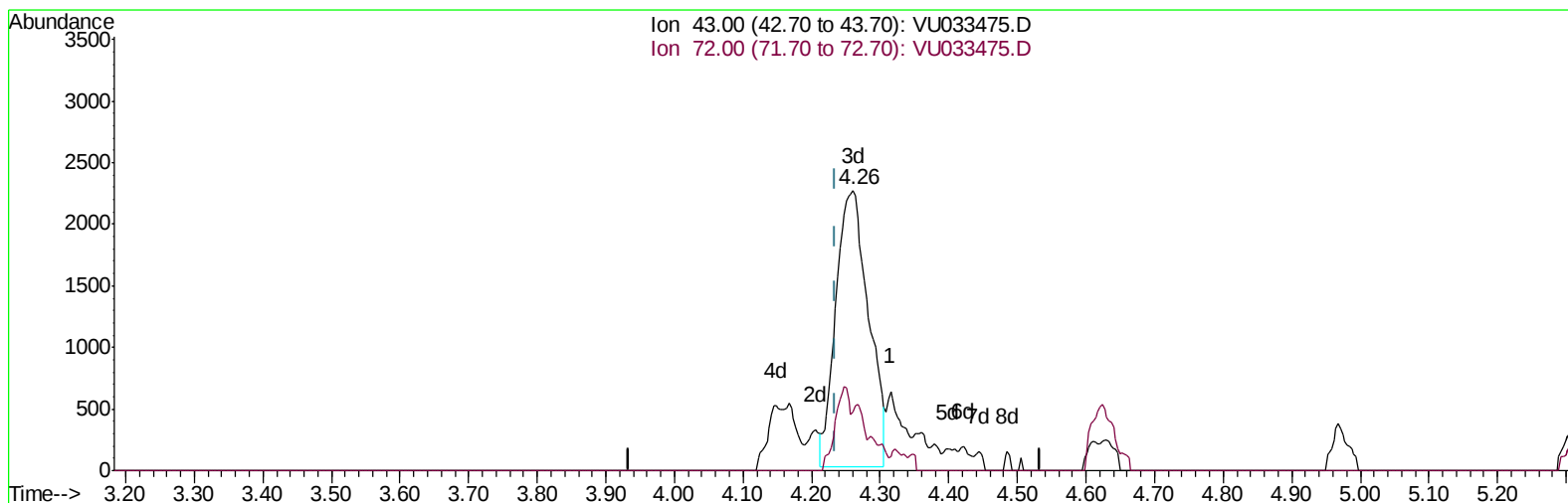
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TIC: VU033475.D

(22) 2-Butanone (T)
4.260min (+0.026) 4.31ug/L m

response 7393

Ion	Exp%	Act%
43.00	100	100
72.00	28.20	1.77#
0.00	0.00	0.00
0.00	0.00	0.00

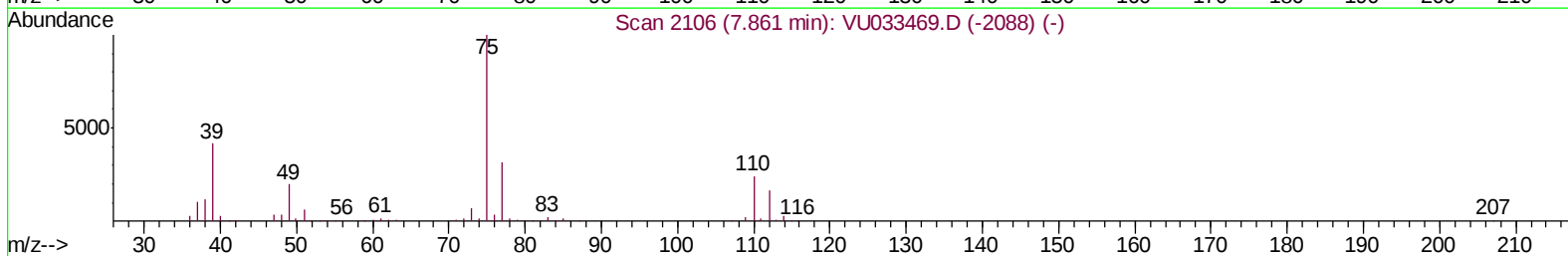
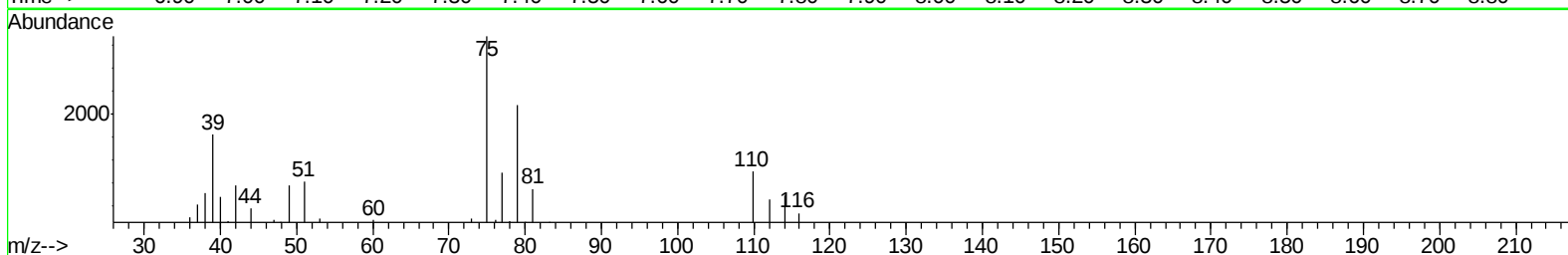
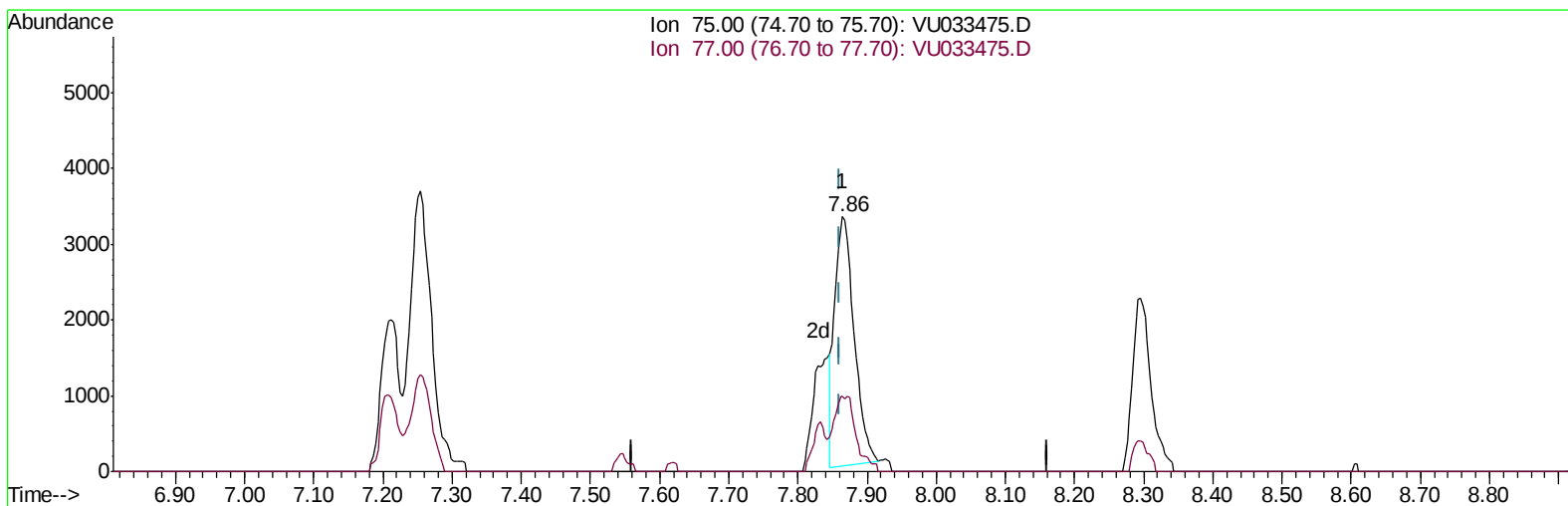
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TIC: VU033475.D

(44) trans-1,3-Dichloropropene (T)

7.865min (+0.003) 2.06ug/L

response 6422

Ion	Exp%	Act%
75.00	100	100
77.00	31.90	29.35
0.00	0.00	0.00
0.00	0.00	0.00

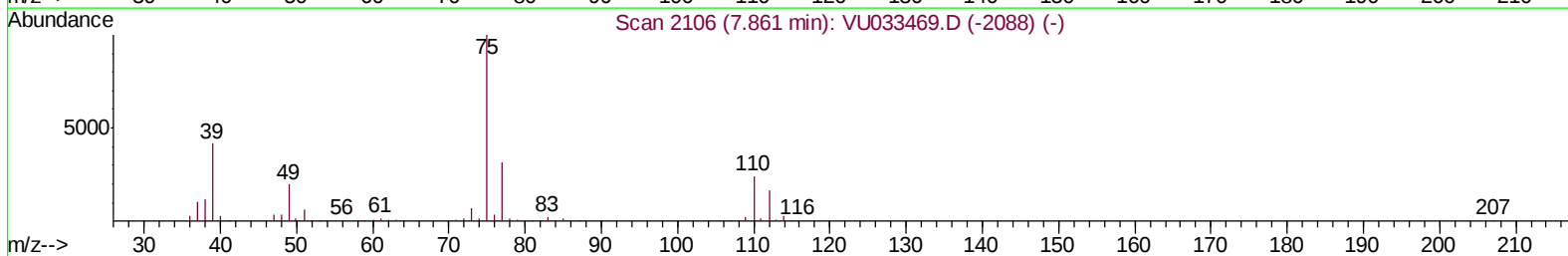
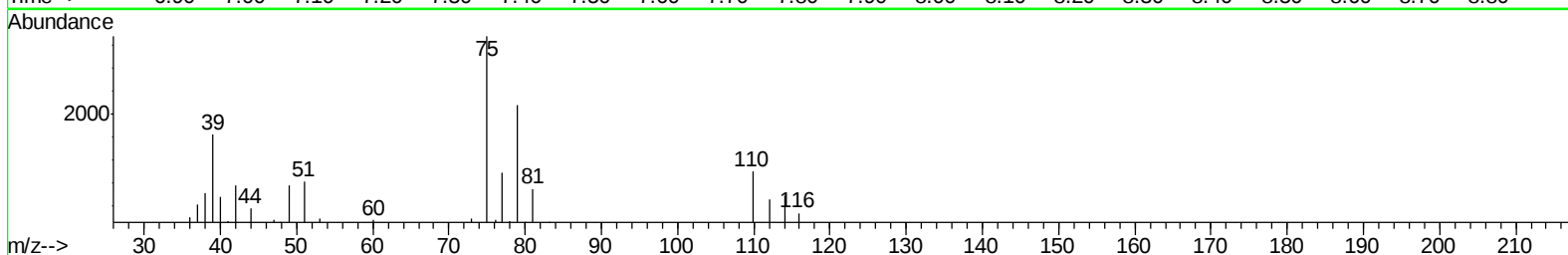
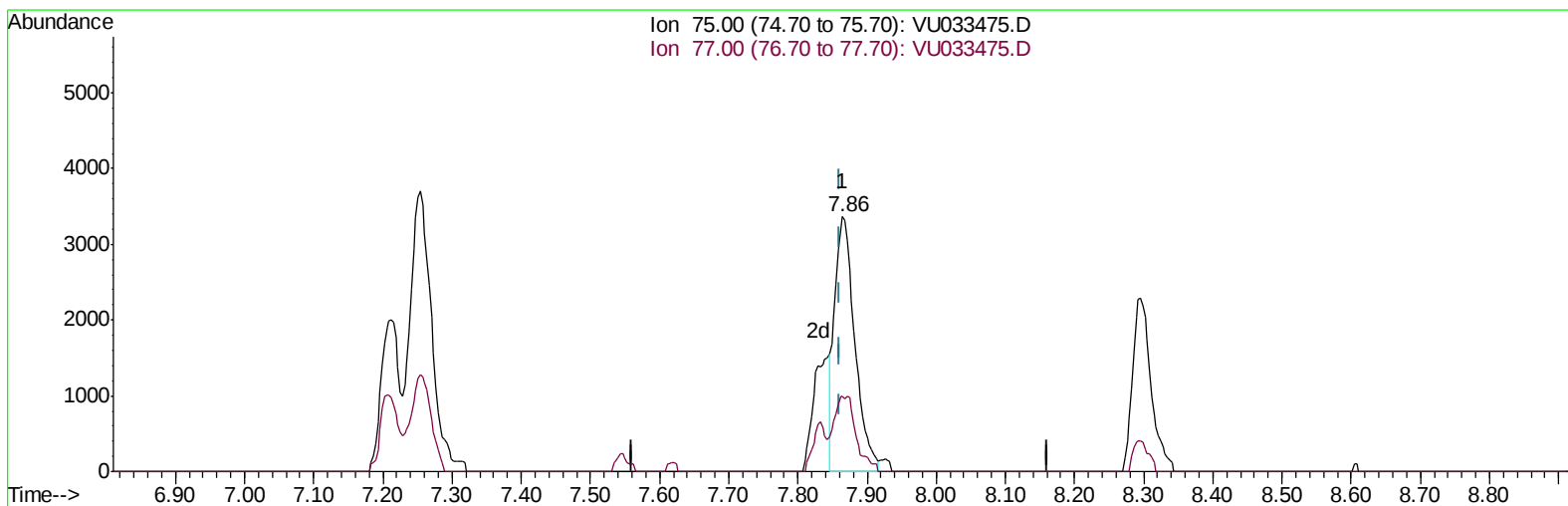
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TIC: VU033475.D

(44) trans-1,3-Dichloropropene (T)

7.865min (+0.003) 2.19ug/L m

response 6827

Ion	Exp%	Act%
75.00	100	100
77.00	31.90	29.35
0.00	0.00	0.00
0.00	0.00	0.00

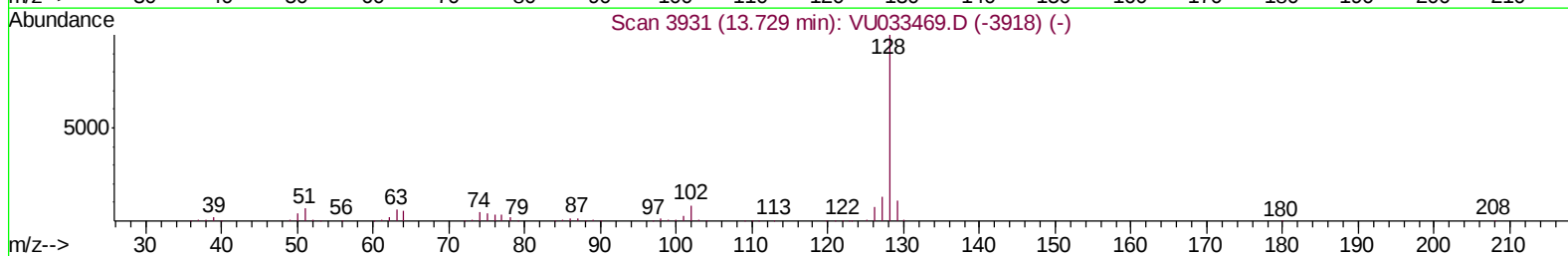
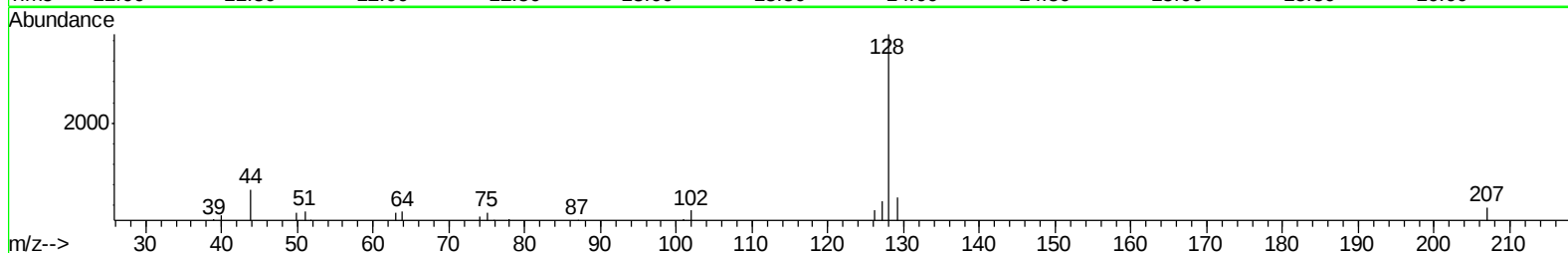
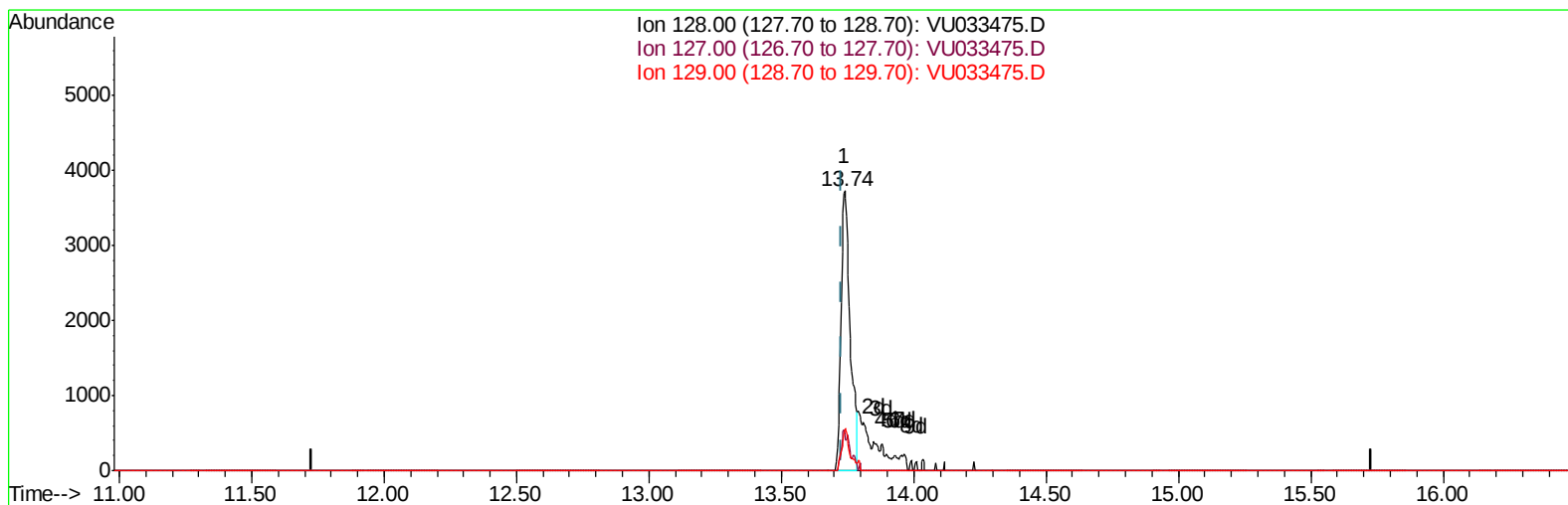
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TIC: VU033475.D

(71) Naphthalene

13.739min (+0.010) 1.11ug/L

response 8722

Ion	Exp%	Act%
128.00	100	100
127.00	13.50	7.35#
129.00	10.90	11.79
0.00	0.00	0.00

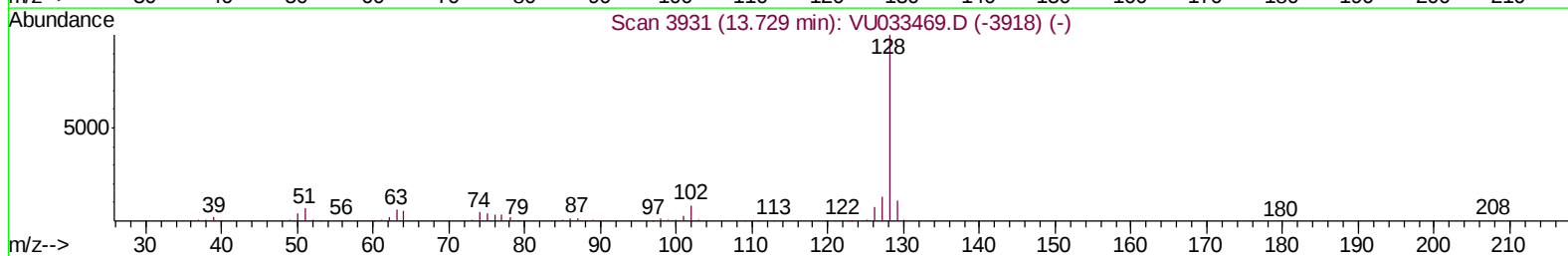
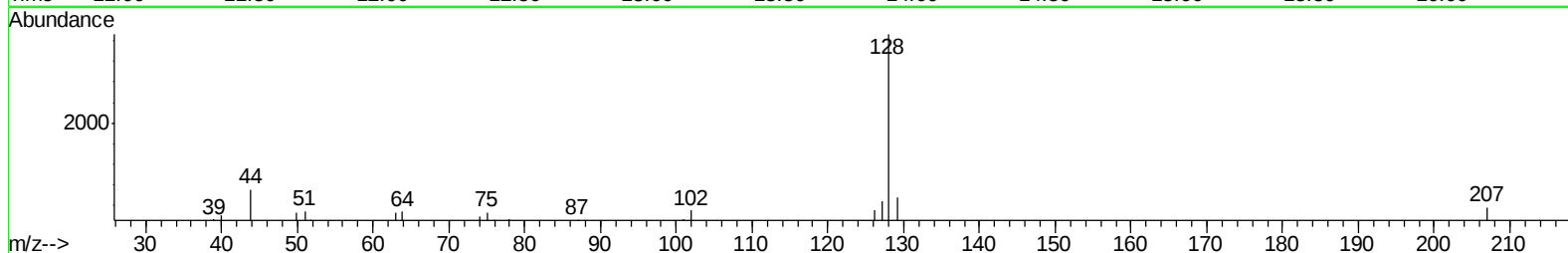
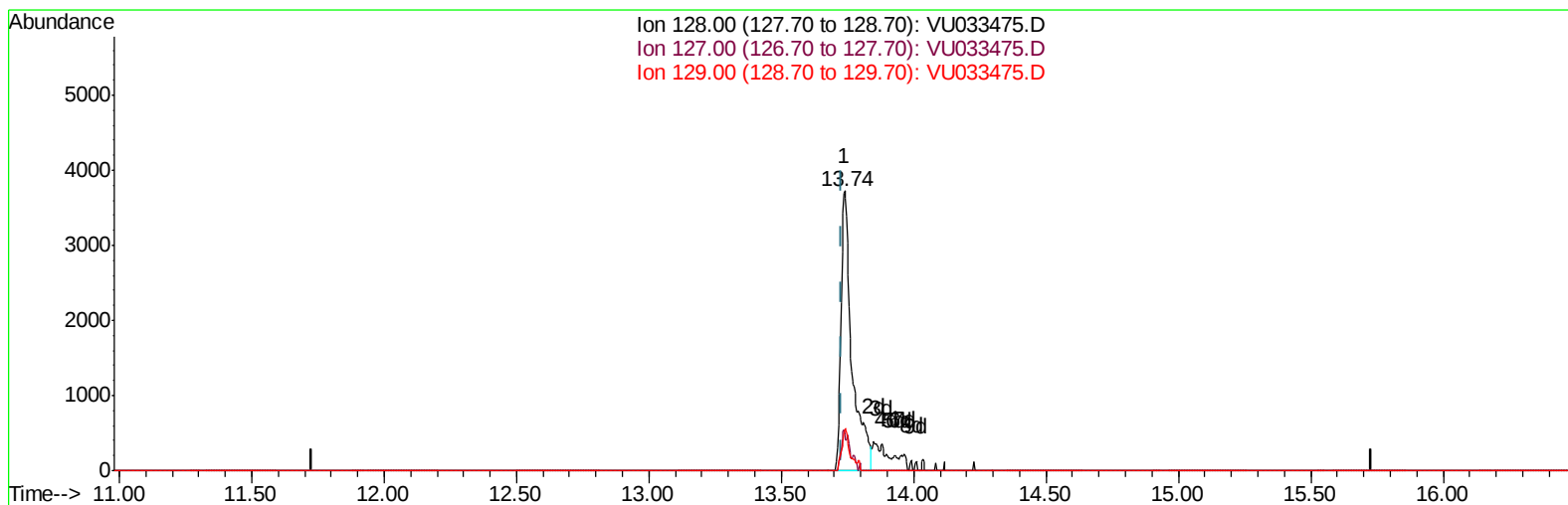
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Manual Integrations
APPROVED

MMDadoda
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TIC: VU033475.D

(71) Naphthalene

13.739min (+0.010) 1.34ug/L m

response 10529

Ion	Exp%	Act%
128.00	100	100
127.00	13.50	6.09#
129.00	10.90	9.76
0.00	0.00	0.00

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Manual Integrations
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MMDadoda
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Quant Time: Jul 30 04:32:34 2019
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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	279685	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	287028	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	131422	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	129400	50.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.90%
7) Chloroethane-d5	1.67	69	108213	51.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.14%
11) 1,1-Dichloroethene-d2	2.25	63	175064	37.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.38%
21) 2-Butanone-d5	4.15	46	146908	100.95	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.95%
24) Chloroform-d	4.62	84	190371	50.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.18%
26) 1,2-Dichloroethane-d4	5.29	65	129540	52.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.66%
32) Benzene-d6	5.32	84	399744	51.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.76%
36) 1,2-Dichloropropane-d6	6.31	67	125664	52.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.14%
41) Toluene-d8	7.55	98	362261	50.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.02%
43) trans-1,3-Dichloropropene-	7.83	79	56059	48.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.00%
47) 2-Hexanone-d5	8.30	63	101026	101.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.76%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	183287	49.97	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.94%
66) 1,2-Dichlorobenzene-d4	11.85	152	139277	55.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.30%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	6666	2.389 ug/L	99
3) Chloromethane	1.32	50	7043	2.528 ug/L	100
5) Vinyl chloride	1.40	62	8000	2.511 ug/L #	69
6) Bromomethane	1.62	94	5084	2.283 ug/L	97
8) Chloroethane	1.69	64	5225	2.673 ug/L	93
9) Trichlorofluoromethane	1.87	101	10328	2.471 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	6268	2.985 ug/L #	83
12) 1,1-Dichloroethene	2.27	96	6489	3.171 ug/L #	1
13) Acetone	2.31	43	6147	4.262 ug/L	98
14) Carbon disulfide	2.46	76	14445	2.369 ug/L #	91
15) Methyl Acetate	2.60	43	5143	2.224 ug/L	99
16) Methylene chloride	2.68	84	5685	2.529 ug/L	95
17) trans-1,2-Dichloroethene	2.96	96	4813	2.368 ug/L	93
18) Methyl tert-butyl Ether	2.98	73	13865	2.312 ug/L	99
19) 1,1-Dichloroethane	3.42	63	9774	2.554 ug/L	98
20) cis-1,2-Dichloroethene	4.20	96	5152	2.297 ug/L	98
22) 2-Butanone	4.26	43	7393m	4.314 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.53	128	3012	2.528	ug/L	78
25) Chloroform	4.65	83	20958	5.165	ug/L	97
27) 1,2-Dichloroethane	5.38	62	7509	2.383	ug/L	99
29) Cyclohexane	4.97	56	6797	2.155	ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	8554	2.503	ug/L	95
31) Carbon tetrachloride	5.11	117	6906	2.270	ug/L	100
33) Benzene	5.37	78	21107	2.460	ug/L	100
34) Trichloroethene	6.17	95	5748	2.572	ug/L	93
35) Methylcyclohexane	6.39	83	7443	2.190	ug/L	99
37) 1,2-Dichloropropane	6.41	63	5809	2.518	ug/L #	94
38) Bromodichloromethane	6.74	83	7044	2.319	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	7366	2.141	ug/L	93
40) 4-Methyl-2-pentanone	7.45	43	12155	3.997	ug/L	97
42) Toluene	7.62	91	22071	2.391	ug/L	93
44) trans-1,3-Dichloropropene	7.86	75	6827m	2.186	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	4893	2.223	ug/L	92
46) Tetrachloroethene	8.21	164	3972	2.184	ug/L	90
48) 2-Hexanone	8.35	43	12183	4.918	ug/L #	93
49) Dibromochloromethane	8.46	129	5661	2.297	ug/L	89
50) 1,2-Dibromoethane	8.57	107	5403	2.263	ug/L	92
51) Chlorobenzene	9.10	112	14230	2.320	ug/L	90
52) Ethylbenzene	9.23	91	21406	2.139	ug/L	97
53) m,p-Xylene	9.36	106	7325	1.946	ug/L	98
54) o-xylene	9.77	106	7611	2.063	ug/L	86
55) Styrene	9.78	104	10844	1.732	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.44	83	9260	2.367	ug/L #	93
59) Bromoform	9.95	173	4159	2.530	ug/L #	97
60) 1,2,3-Trichloropropane	10.48	75	7046	2.632	ug/L	98
61) Isopropylbenzene	10.15	105	18703	2.222	ug/L	96
62) 1,3,5-Trimethylbenzene	10.76	105	12973	1.902	ug/L	94
63) 1,2,4-Trimethylbenzene	11.13	105	12133	1.794	ug/L	96
64) 1,3-Dichlorobenzene	11.40	146	9988	2.328	ug/L	92
65) 1,4-Dichlorobenzene	11.49	146	10953	2.471	ug/L	98
67) 1,2-Dichlorobenzene	11.86	146	11411	2.654	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.65	75	1679	2.256	ug/L #	77
69) 1,3,5-Trichlorobenzene	12.88	180	7015	2.153	ug/L	95
70) 1,2,4-trichlorobenzene	13.50	180	4223	1.553	ug/L	93
71) Naphthalene	13.74	128	10529m	1.339	ug/L	
72) 1,2,3-Trichlorobenzene	13.98	180	4666	1.638	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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