

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071521\
 Data File : VD069713.D
 Acq On : 15 Jul 2021 18:01
 Operator : VA/SY
 Sample : M3026-10
 Misc : 12.50G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 16 02:03:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071321S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 14 06:00:31 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

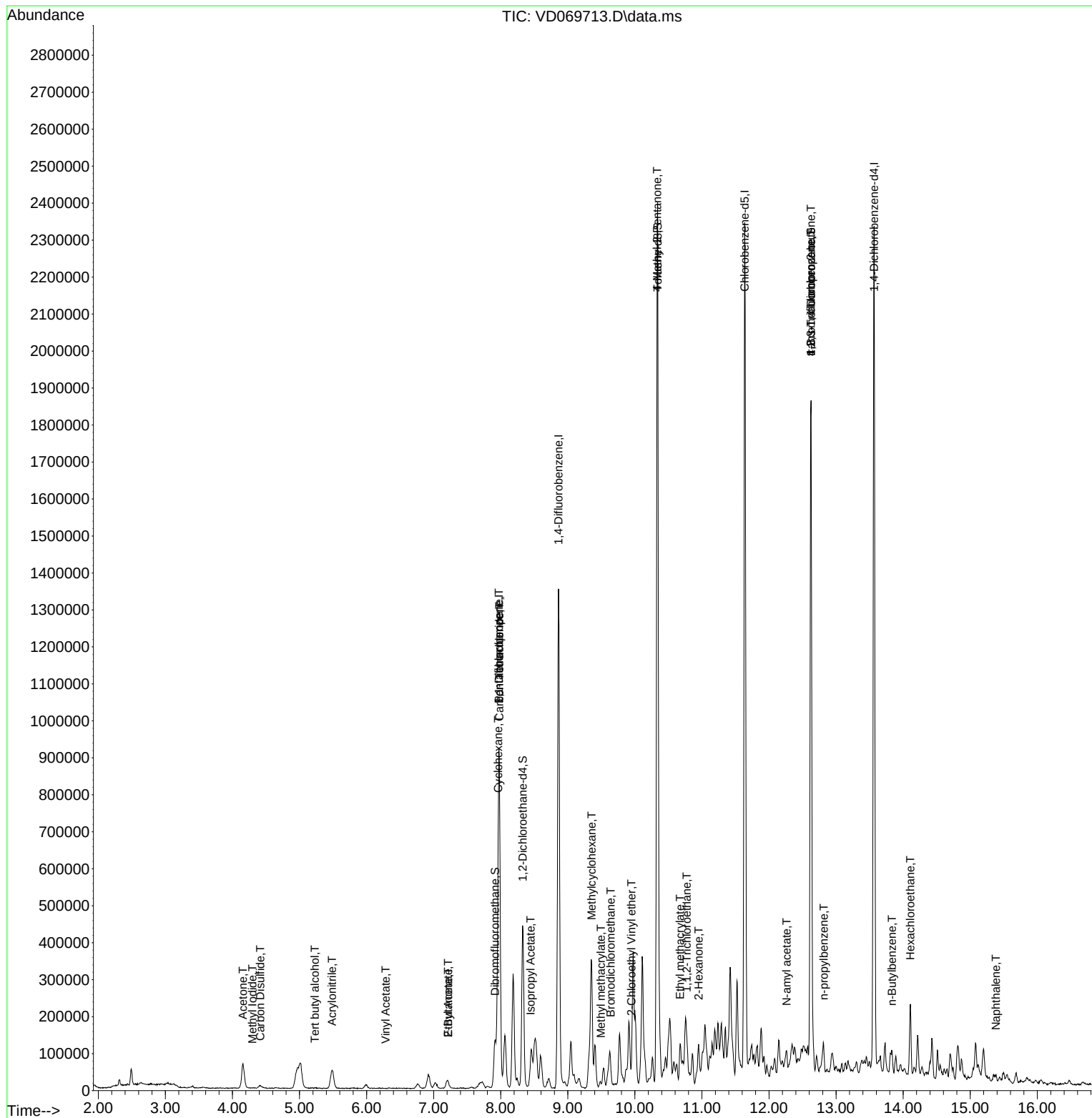
Internal Standards						
1) Pentafluorobenzene	7.973	168	561272	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	1101230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	1295423	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	589434	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	347398	49.570	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.140%		
35) Dibromofluoromethane	7.915	113	92186	12.478	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	24.960%#		
50) Toluene-d8	10.338	98	1524929	53.129	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	106.260%		
62) 4-Bromofluorobenzene	12.626	95	654345	68.357	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	136.720%		
Target Compounds						Qvalue
3) Chloromethane	2.203	50	1239	Below Cal	#	42
5) Bromomethane	2.785	94	719	Below Cal		96
10) Methyl Iodide	4.297	142	122	2.485	ug/l #	39
11) Tert butyl alcohol	5.226	59	1019	1.088	ug/l #	79
15) Acrylonitrile	5.485	53	2851	2.001	ug/l #	43
16) Acetone	4.156	43	112758	84.349	ug/l	96
17) Carbon Disulfide	4.415	76	13857	1.071	ug/l #	94
18) Methyl Acetate	4.938	43	7006	Below Cal	#	49
20) Methylene Chloride	4.956	84	30541	Below Cal		97
23) Vinyl Acetate	6.285	43	55	15.429	ug/l #	72
25) 2-Butanone	7.215	43	21539	13.004	ug/l #	79
31) Cyclohexane	7.962	56	72304	6.421	ug/l #	62
36) 1,1-Dichloropropene	7.973	75	51276	4.513	ug/l #	50
37) Ethyl Acetate	7.215	43	21539	5.012	ug/l #	69
38) Carbon Tetrachloride	7.979	117	59580	5.727	ug/l #	17
39) Methylcyclohexane	9.356	83	109304	9.697	ug/l	92
43) Isopropyl Acetate	8.444	43	22888	2.908	ug/l #	47
47) Bromodichloromethane	9.638	83	15067	1.352	ug/l #	25
48) Methyl methacrylate	9.491	41	2295	1.652	ug/l #	13
51) 4-Methyl-2-Pentanone	10.332	43	13947	3.422	ug/l #	23
55) 1,1,2-Trichloroethane	10.773	97	34158	5.809	ug/l #	22
56) Ethyl methacrylate	10.673	69	11422	3.134	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.950	63	756	9.578	ug/l #	49
59) 2-Hexanone	10.950	43	37658	13.863	ug/l #	26
74) N-amyl acetate	12.261	43	21718	2.381	ug/l #	62
76) 1,2,3-Trichloropropane	12.626	75	315479	55.094	ug/l #	100
78) n-propylbenzene	12.814	91	53696	1.009	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.626	75	315479	148.063	ug/l #	14
89) n-Butylbenzene	13.832	91	37985	1.032	ug/l #	87
90) Hexachloroethane	14.108	117	12692	1.679	ug/l #	18
95) Naphthalene	15.385	128	5228	2.473	ug/l #	74

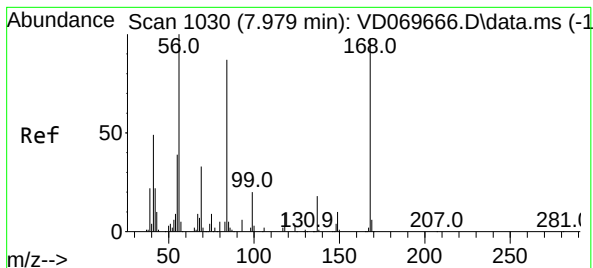
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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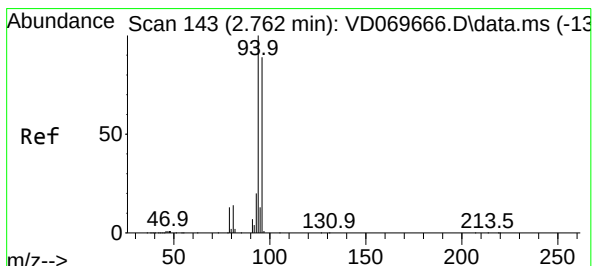
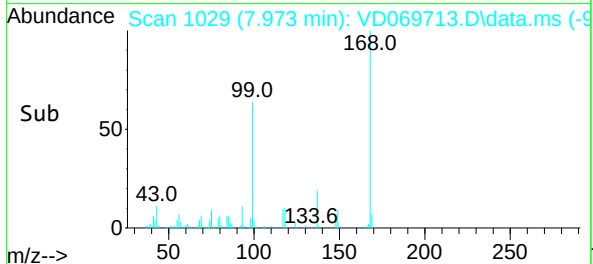
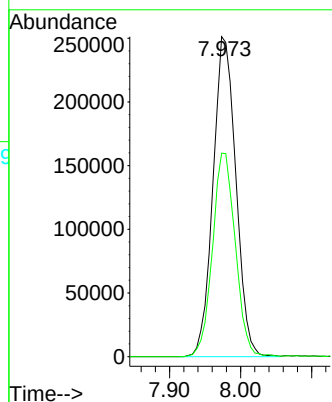
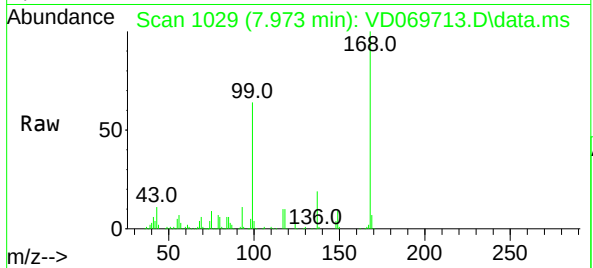




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

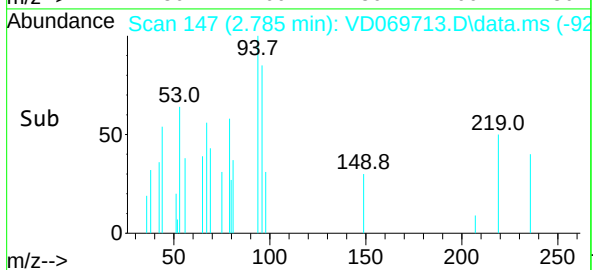
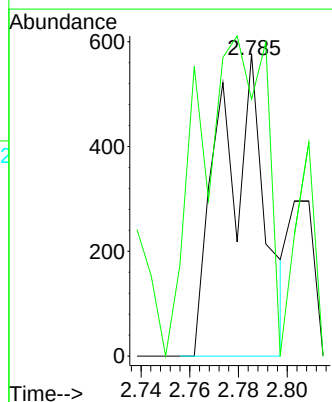
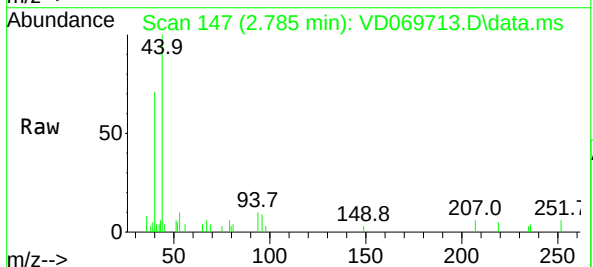
Instrument :
MSVOA_D
ClientSampleId :

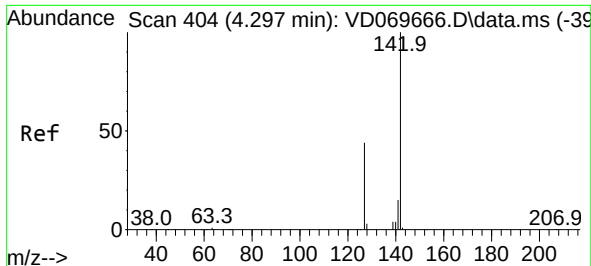
Tgt Ion:168 Resp: 561272
Ion Ratio Lower Upper
168 100
99 63.6 51.8 77.6



#5
Bromomethane
Concen: Below Cal
RT: 2.785 min Scan# 147
Delta R.T. 0.023 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

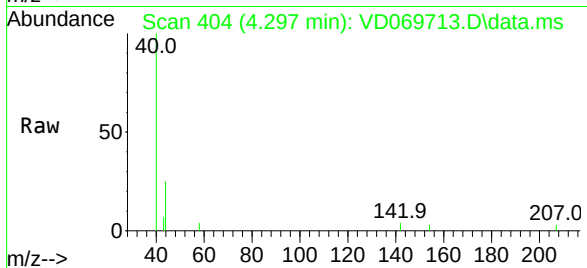
Tgt Ion: 94 Resp: 719
Ion Ratio Lower Upper
94 100
96 84.9 71.2 106.8



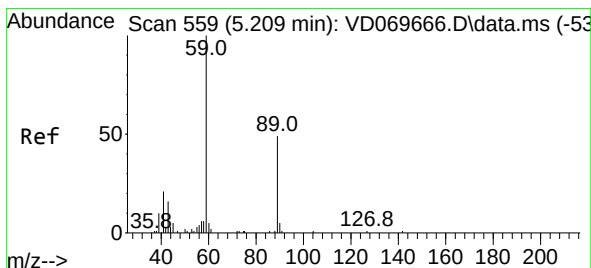
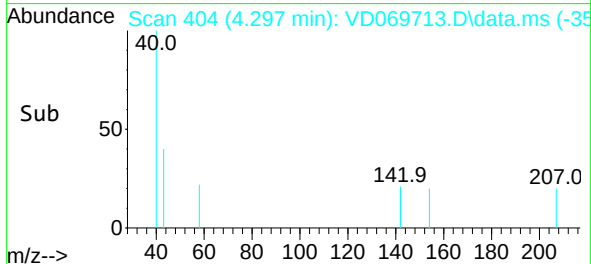
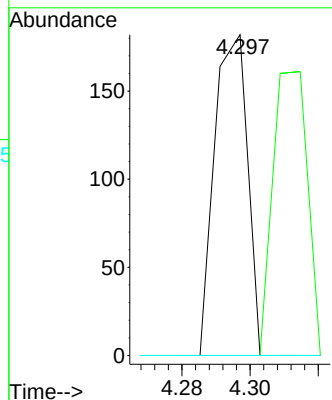


#10
Methyl Iodide
Concen: 2.485 ug/l
RT: 4.297 min Scan# 404
Delta R.T. 0.000 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Instrument :
MSVOA_D
ClientSampled :

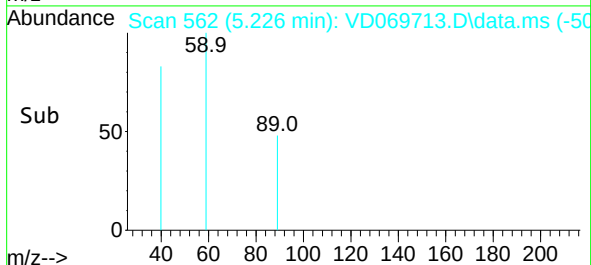
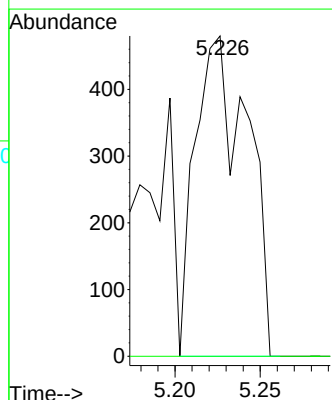
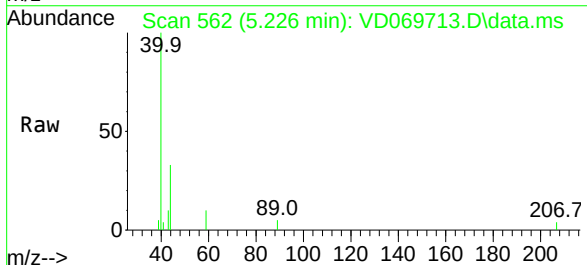


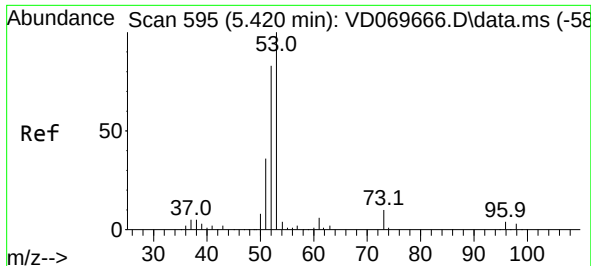
Tgt Ion:142 Resp: 122
Ion Ratio Lower Upper
142 100
127 0.0 36.1 54.1#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 1.088 ug/l
RT: 5.226 min Scan# 562
Delta R.T. 0.017 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion: 59 Resp: 1019
Ion Ratio Lower Upper
59 100
57 0.0 5.7 8.5#

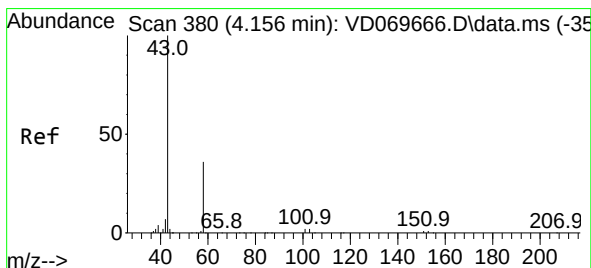
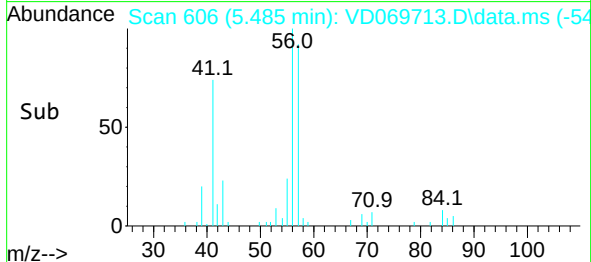
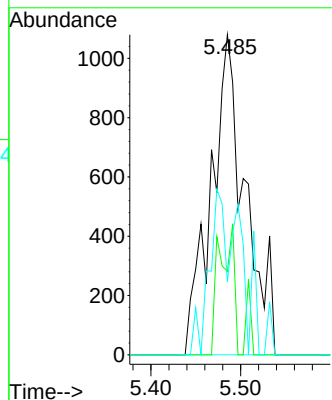
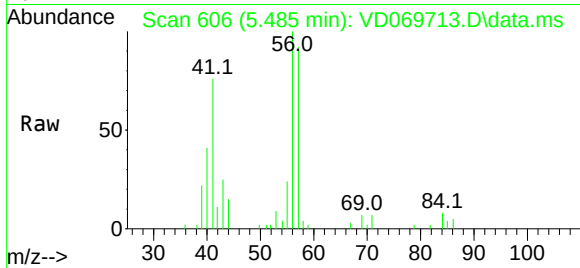




#15
Acrylonitrile
Concen: 2.001 ug/l
RT: 5.485 min Scan# 606
Delta R.T. 0.065 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

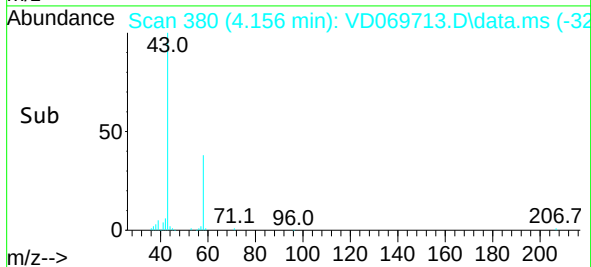
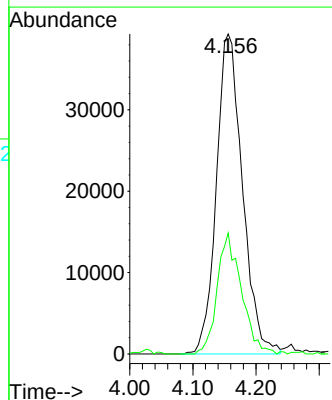
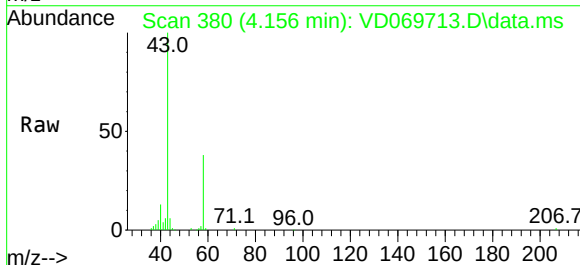
Instrument :
MSVOA_D
ClientSampled :

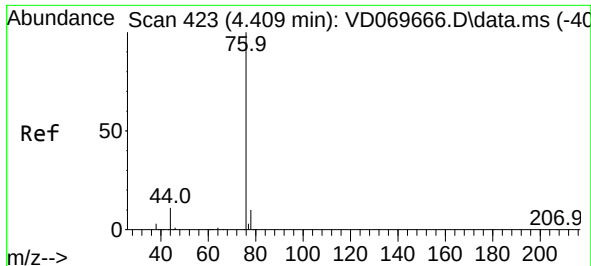
Tgt Ion: 53 Resp: 2851
Ion Ratio Lower Upper
53 100
52 17.6 64.8 97.2#
51 21.2 28.2 42.2#



#16
Acetone
Concen: 84.349 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

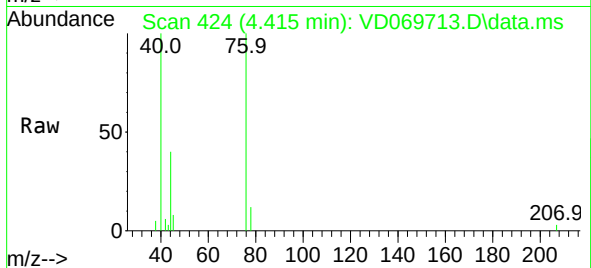
Tgt Ion: 43 Resp: 112758
Ion Ratio Lower Upper
43 100
58 37.8 28.6 42.8



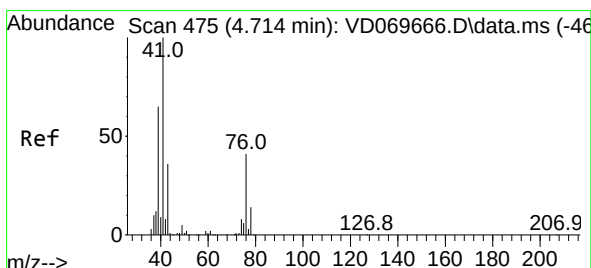
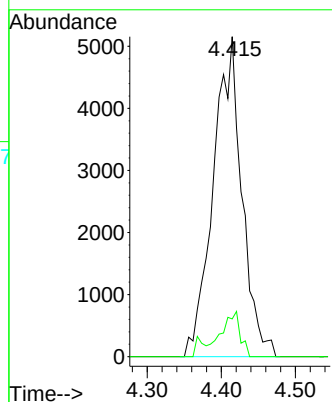
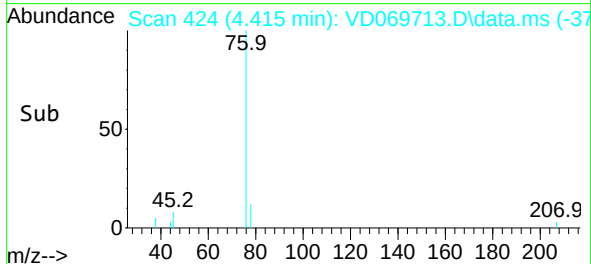


#17
Carbon Disulfide
Concen: 1.071 ug/l
RT: 4.415 min Scan# 424
Delta R.T. 0.006 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

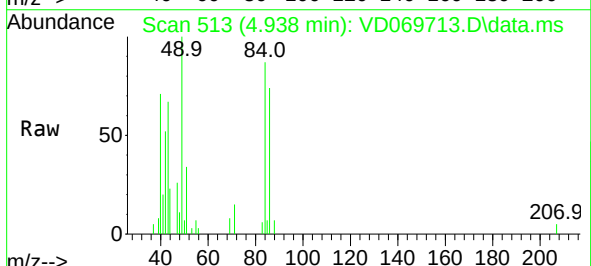
Instrument :
MSVOA_D
ClientSampleId :



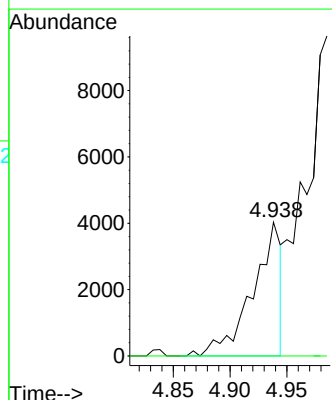
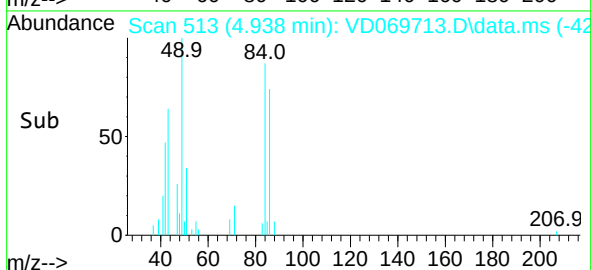
Tgt Ion: 76 Resp: 13857
Ion Ratio Lower Upper
76 100
78 11.8 7.6 11.4#

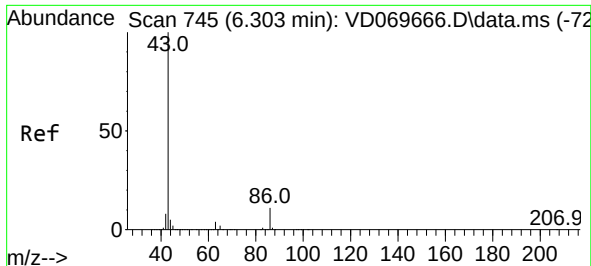


#18
Methyl Acetate
Concen: Below Cal
RT: 4.938 min Scan# 513
Delta R.T. 0.224 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01



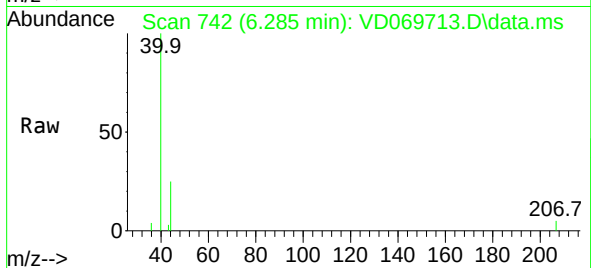
Tgt Ion: 43 Resp: 7006
Ion Ratio Lower Upper
43 100
74 0.0 20.6 30.8#



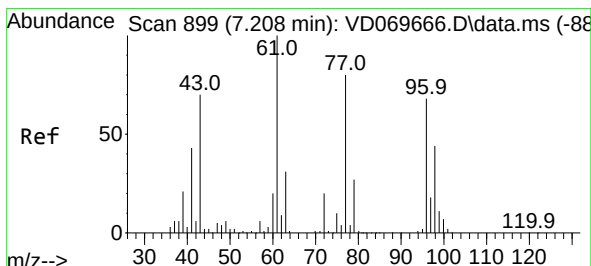
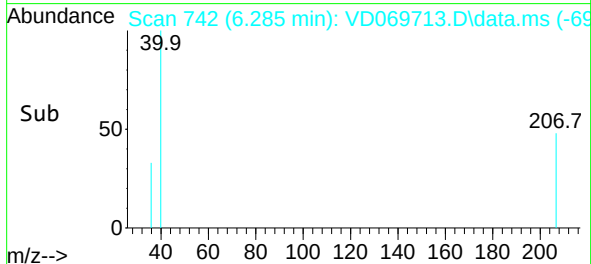
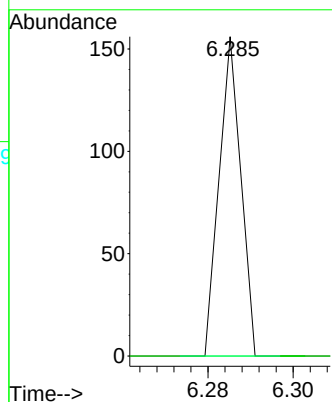


#23
 Vinyl Acetate
 Concen: 15.429 ug/l
 RT: 6.285 min Scan# 742
 Delta R.T. -0.018 min
 Lab File: VD069713.D
 Acq: 15 Jul 2021 18:01

Instrument :
 MSVOA_D
 ClientSampled :

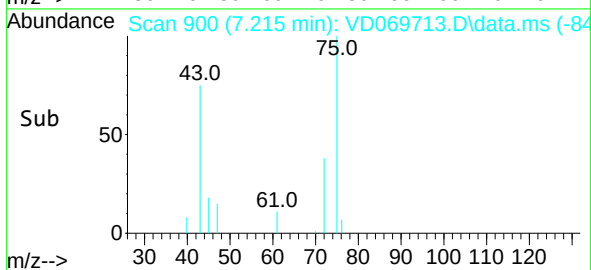
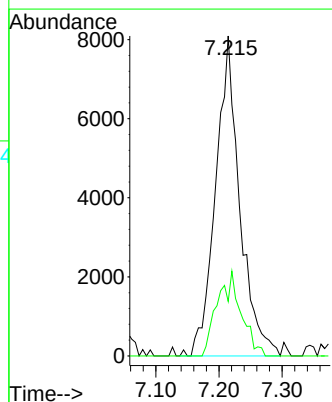
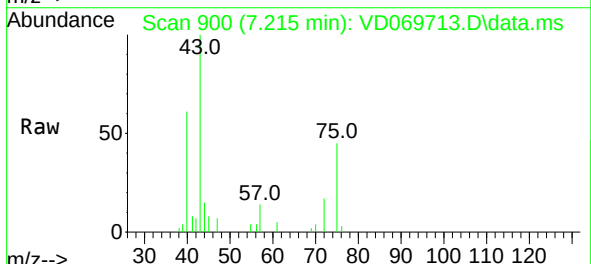


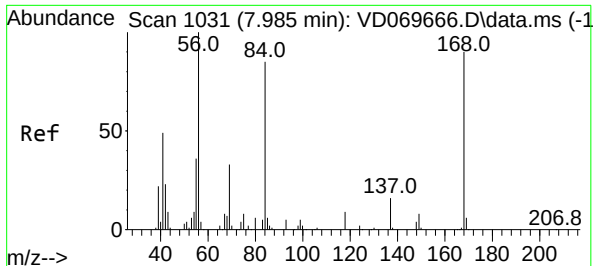
Tgt Ion: 43 Resp: 55
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 12.8#



#25
 2-Butanone
 Concen: 13.004 ug/l
 RT: 7.215 min Scan# 900
 Delta R.T. 0.007 min
 Lab File: VD069713.D
 Acq: 15 Jul 2021 18:01

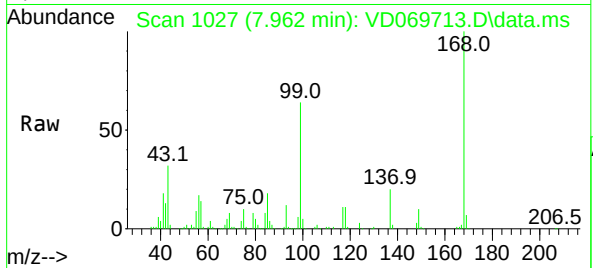
Tgt Ion: 43 Resp: 21539
 Ion Ratio Lower Upper
 43 100
 72 17.1 22.6 33.8#



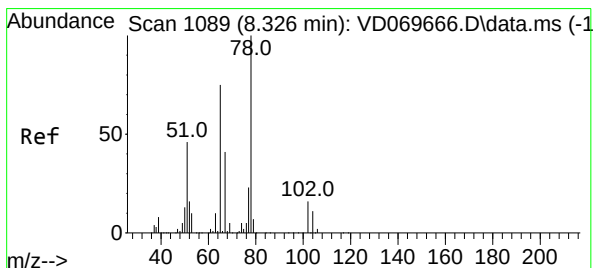
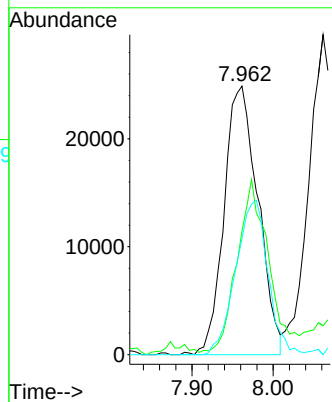
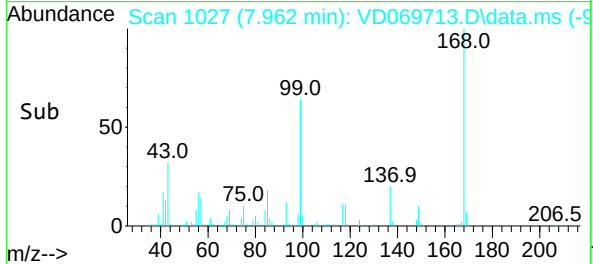


#31
Cyclohexane
Concen: 6.421 ug/l
RT: 7.962 min Scan# 1027
Delta R.T. -0.023 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

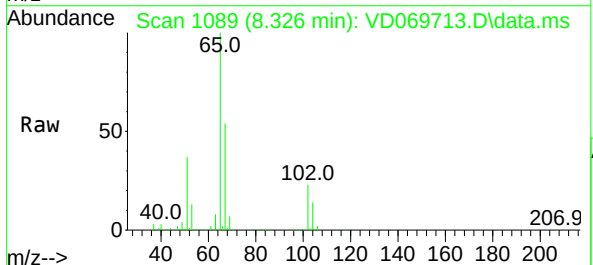
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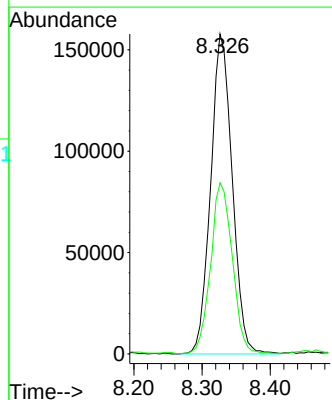
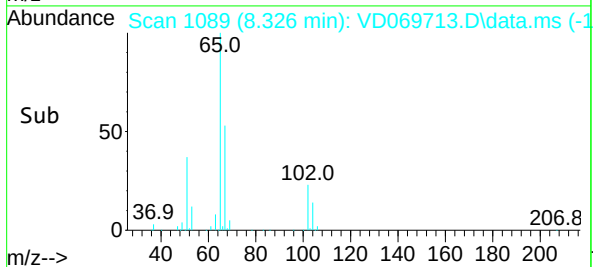
Tgt Ion: 56 Resp: 72304
Ion Ratio Lower Upper
56 100
69 43.4 26.6 39.8#
84 43.1 68.2 102.2#

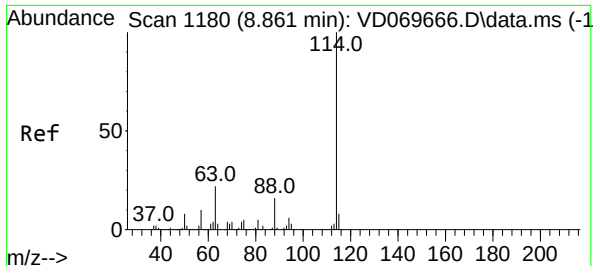


#33
1,2-Dichloroethane-d4
Concen: 49.570 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01



Tgt Ion: 65 Resp: 347398
Ion Ratio Lower Upper
65 100
67 53.4 0.0 107.2



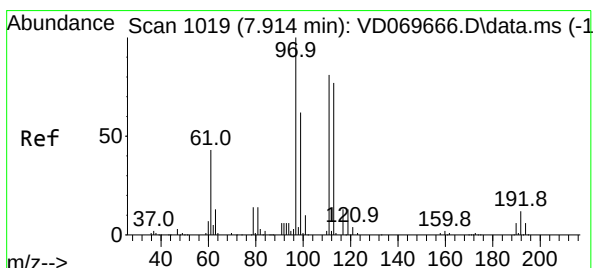
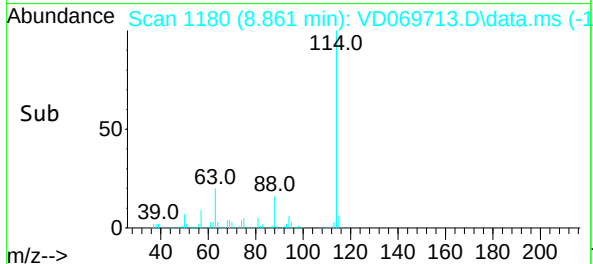
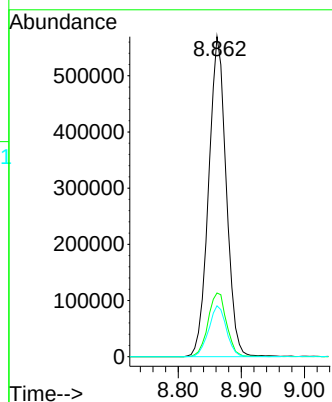
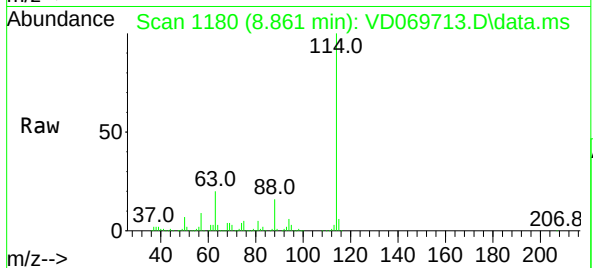


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Instrument :
MSVOA_D
ClientSampleId :

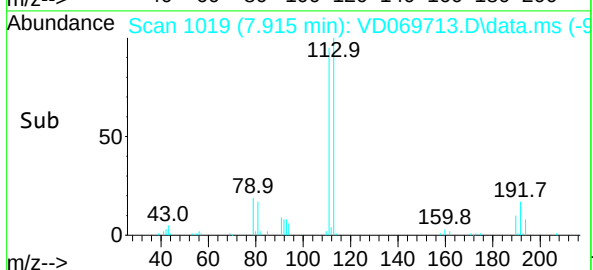
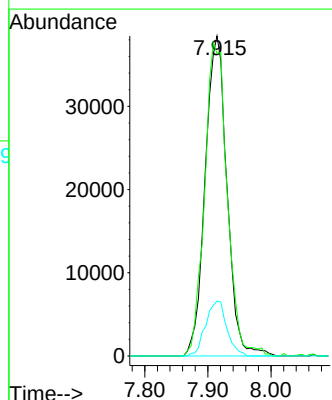
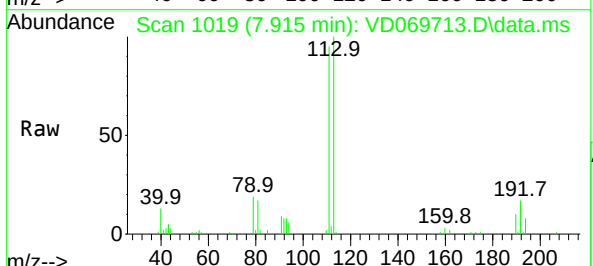
Tgt Ion:114 Resp: 1101230
Ion Ratio Lower Upper
114 100
63 19.9 0.0 43.4
88 15.9 0.0 32.0

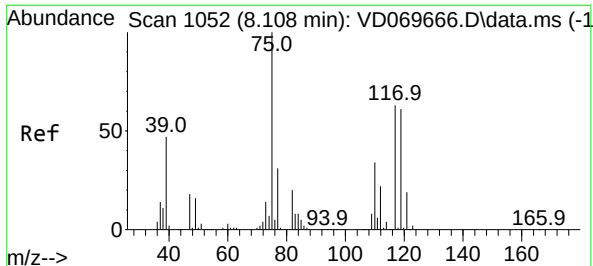


#35

Dibromofluoromethane
Concen: 12.478 ug/l
RT: 7.915 min Scan# 1019
Delta R.T. 0.001 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

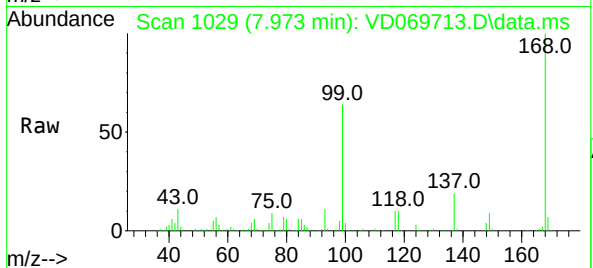
Tgt Ion:113 Resp: 92186
Ion Ratio Lower Upper
113 100
111 101.5 82.6 123.8
192 16.6 12.7 19.1



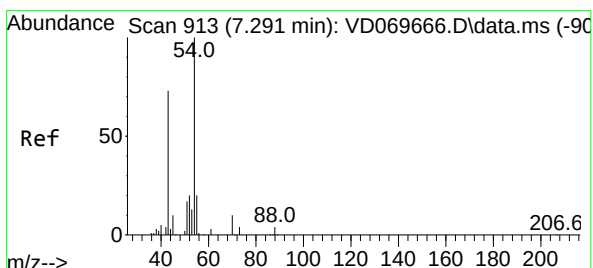
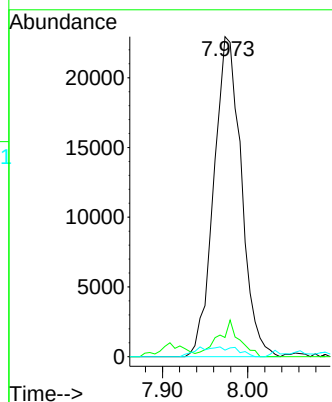
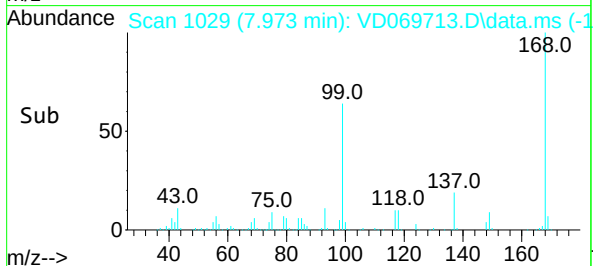


#36
1,1-Dichloropropene
Concen: 4.513 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

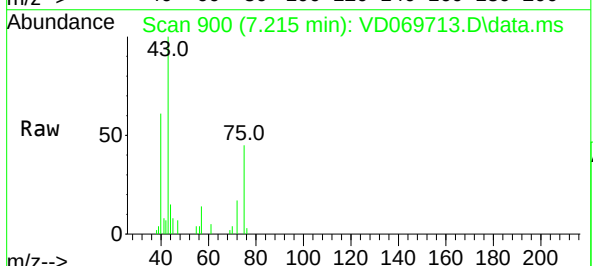
Instrument :
MSVOA_D
ClientSampled :



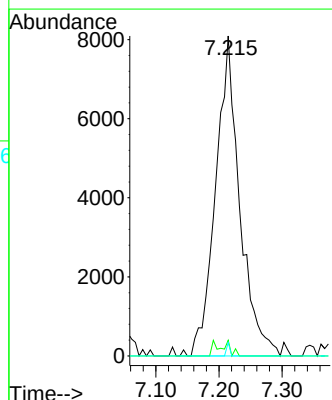
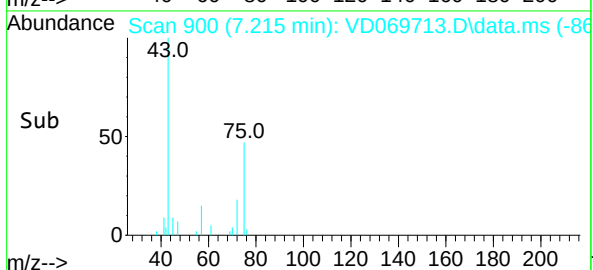
Tgt Ion: 75 Resp: 51276
Ion Ratio Lower Upper
75 100
110 8.8 16.7 50.0#
77 0.0 25.3 37.9#

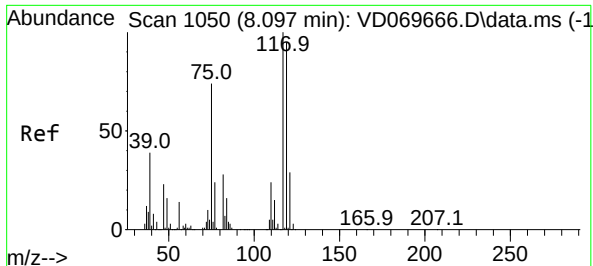


#37
Ethyl Acetate
Concen: 5.012 ug/l
RT: 7.215 min Scan# 900
Delta R.T. -0.076 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01



Tgt Ion: 43 Resp: 21539
Ion Ratio Lower Upper
43 100
61 1.0 12.1 18.1#
70 0.6 8.4 12.6#

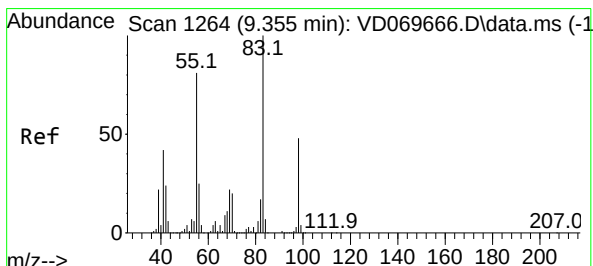
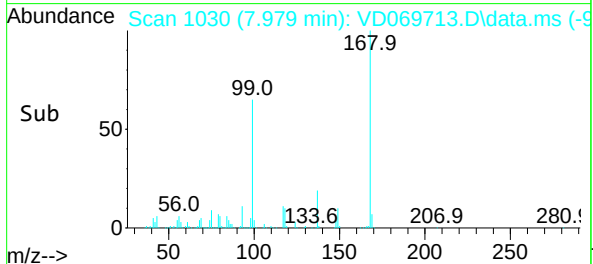
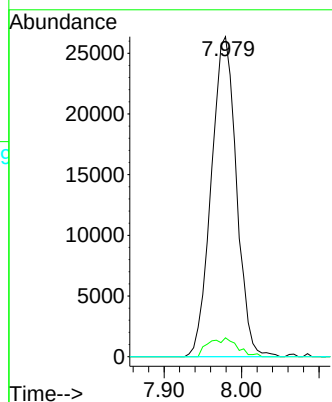
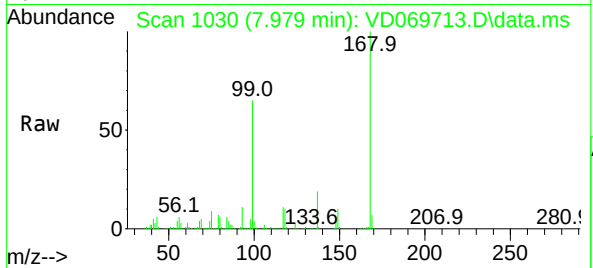




#38
Carbon Tetrachloride
Concen: 5.727 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

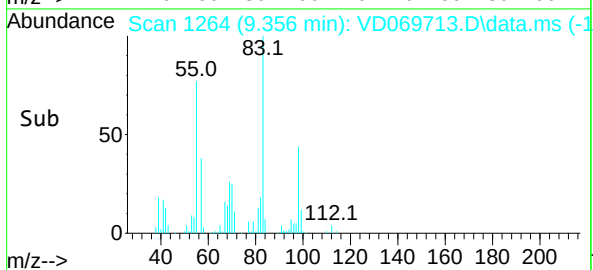
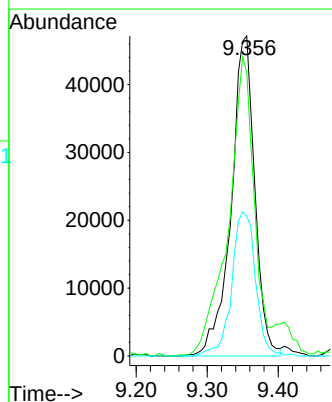
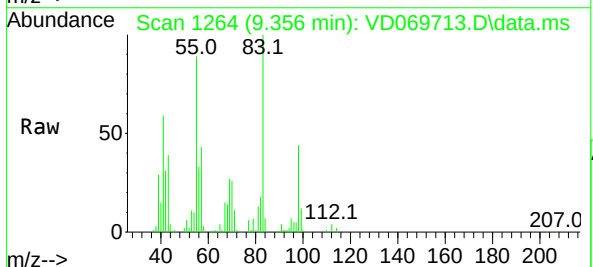
Instrument :
MSVOA_D
ClientSampleId :

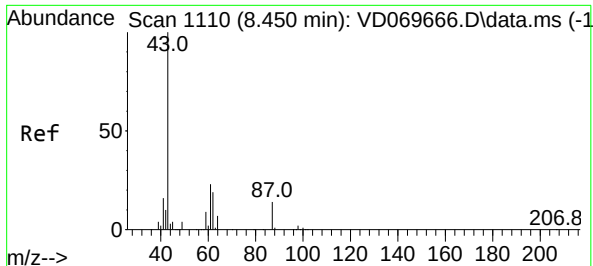
Tgt Ion:117 Resp: 59580
Ion Ratio Lower Upper
117 100
119 5.9 75.7 113.5#
121 0.0 23.0 34.6#



#39
Methylcyclohexane
Concen: 9.697 ug/l
RT: 9.356 min Scan# 1264
Delta R.T. 0.001 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion: 83 Resp: 109304
Ion Ratio Lower Upper
83 100
55 88.3 64.6 97.0
98 43.7 38.4 57.6

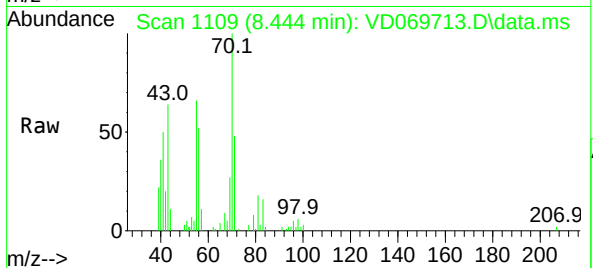




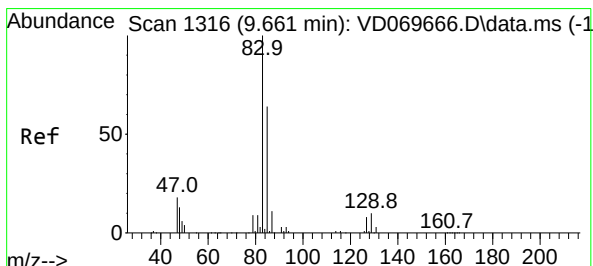
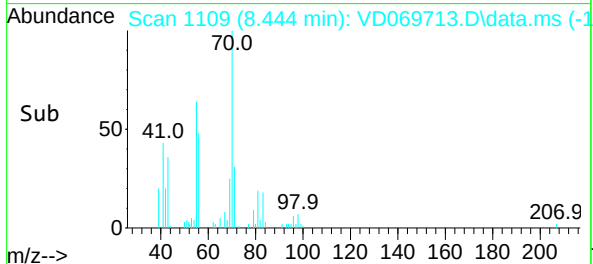
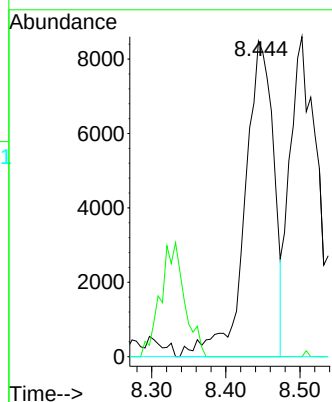
#43

Isopropyl Acetate
Concen: 2.908 ug/l
RT: 8.444 min Scan# 1109
Delta R.T. -0.006 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Instrument :
MSVOA_D
ClientSampleId :



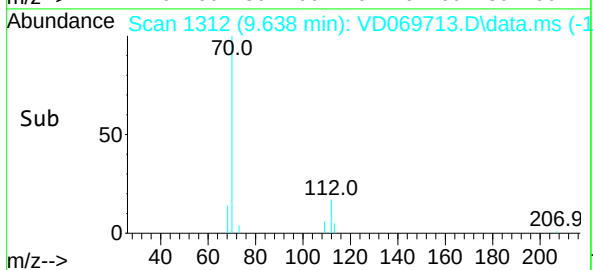
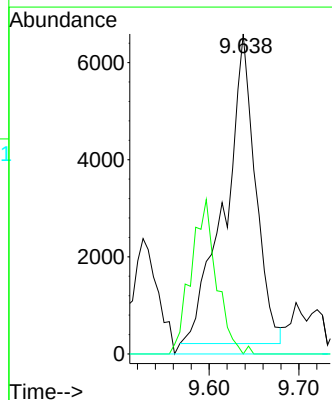
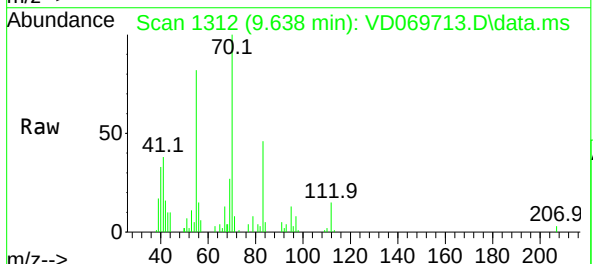
Tgt Ion:	43	Resp:	22888
Ion Ratio	Lower	Upper	
43	100		
61	0.0	27.8	41.6#
87	0.0	11.0	16.6#

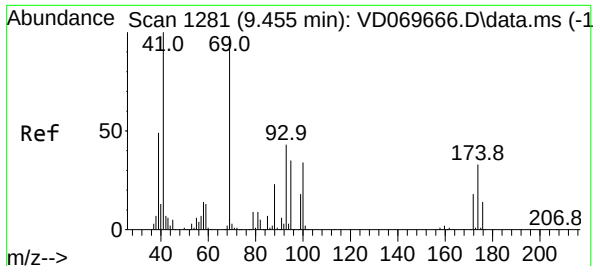


#47

Bromodichloromethane
Concen: 1.352 ug/l
RT: 9.638 min Scan# 1312
Delta R.T. -0.023 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion:	83	Resp:	15067
Ion Ratio	Lower	Upper	
83	100		
85	0.0	51.4	77.0#
127	0.0	6.7	10.1#





#48

Methyl methacrylate

Concen: 1.652 ug/l

RT: 9.491 min Scan# 1287

Delta R.T. 0.036 min

Lab File: VD069713.D

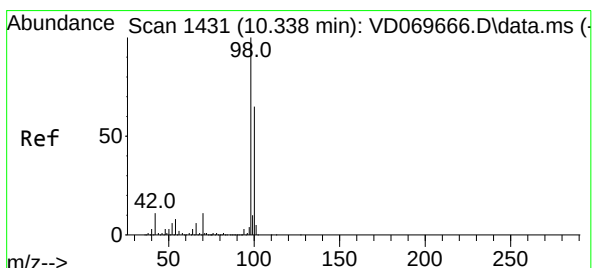
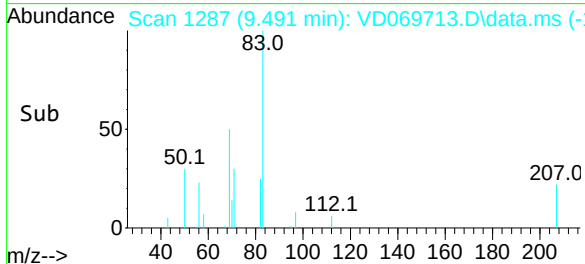
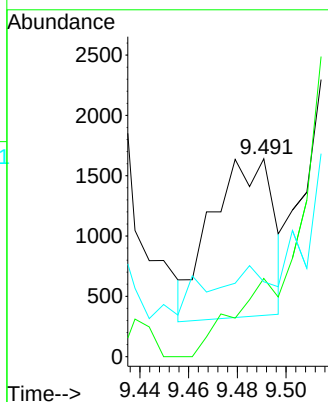
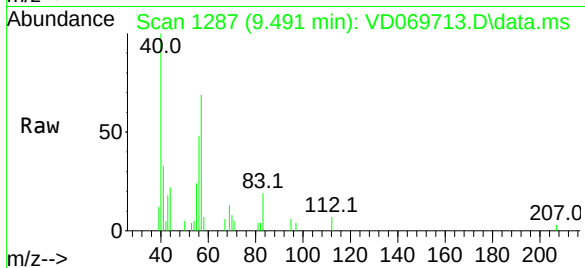
Acq: 15 Jul 2021 18:01

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	41	Resp:	2295
Ion Ratio	Lower	Upper	
41	100		
69	0.0	71.6	107.4#
39	0.0	36.7	55.1#



#50

Toluene-d8

Concen: 53.129 ug/l

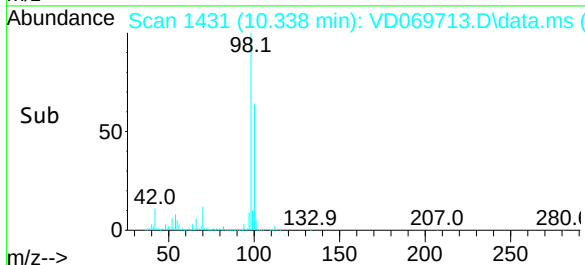
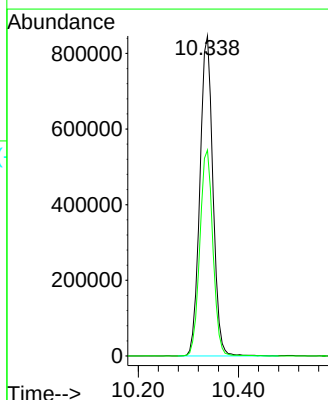
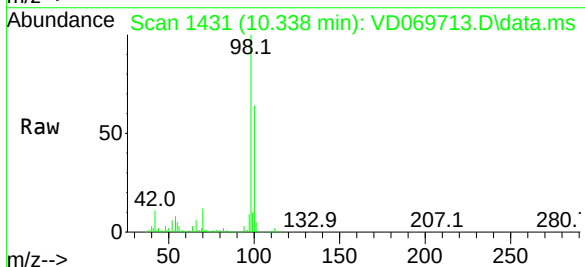
RT: 10.338 min Scan# 1431

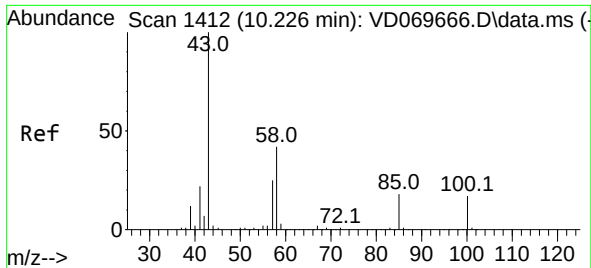
Delta R.T. -0.000 min

Lab File: VD069713.D

Acq: 15 Jul 2021 18:01

Tgt Ion:	98	Resp:	1524929
Ion Ratio	Lower	Upper	
98	100		
100	64.4	52.2	78.2

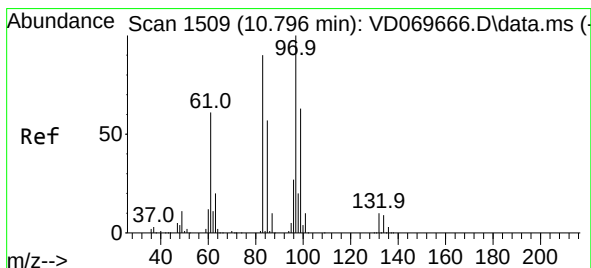
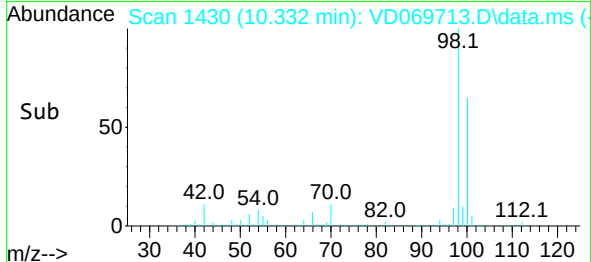
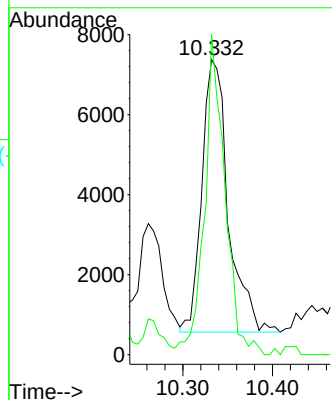
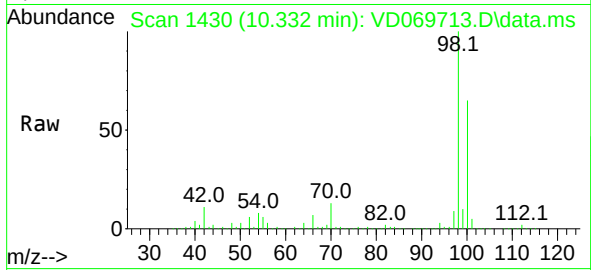




#51
4-Methyl-2-Pentanone
Concen: 3.422 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.106 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

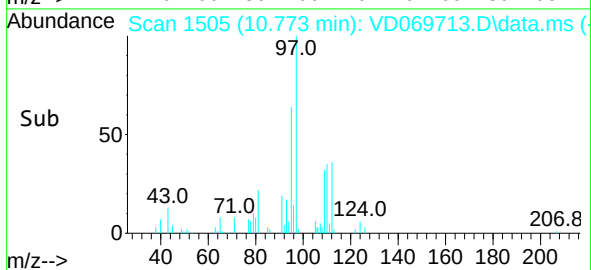
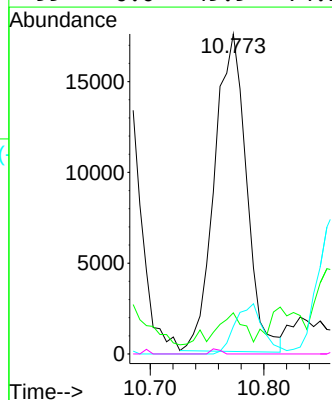
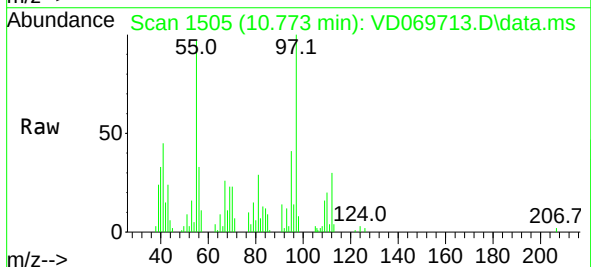
Instrument :
MSVOA_D
ClientSampled :

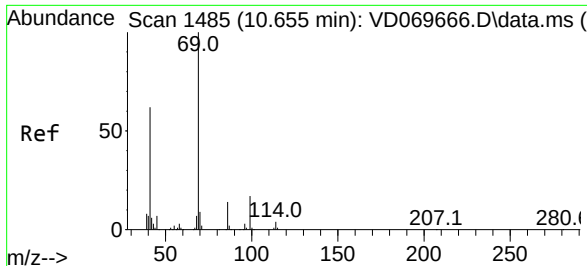
Tgt Ion: 43 Resp: 13947
Ion Ratio Lower Upper
43 100
58 90.6 33.5 50.3#



#55
1,1,2-Trichloroethane
Concen: 5.809 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.023 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion: 97 Resp: 34158
Ion Ratio Lower Upper
97 100
83 10.1 72.3 108.5#
85 8.7 45.5 68.3#
99 0.0 49.9 74.9#

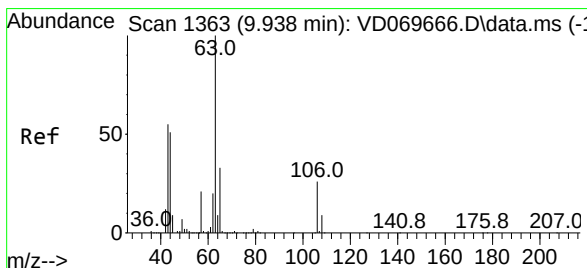
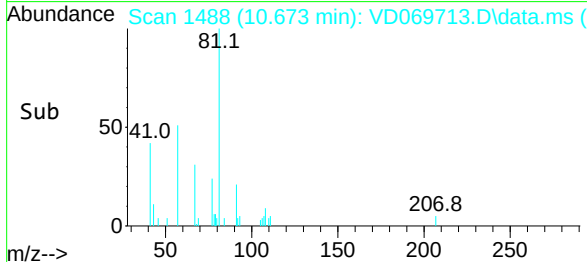
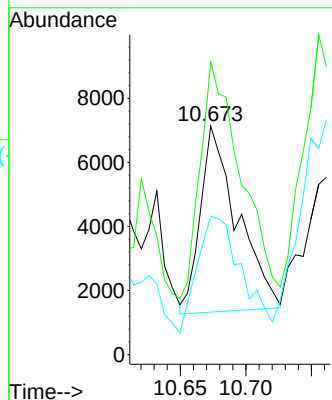
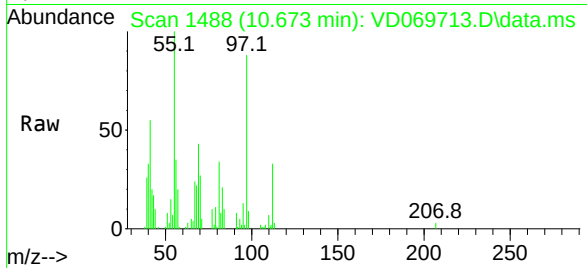




#56
Ethyl methacrylate
Concen: 3.134 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.018 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

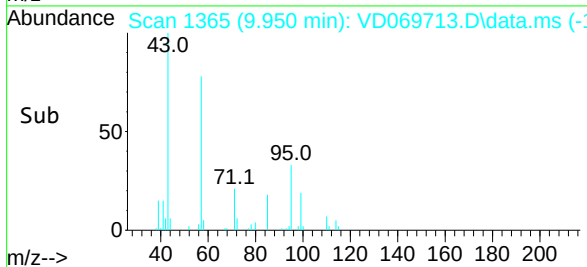
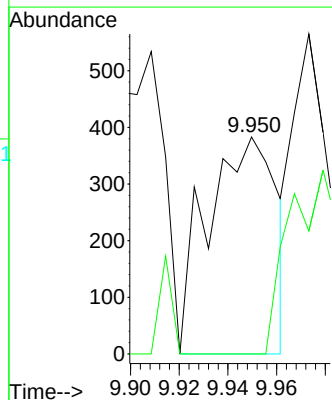
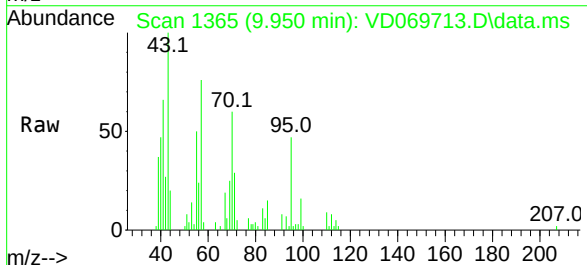
Instrument :
MSVOA_D
ClientSampleId :

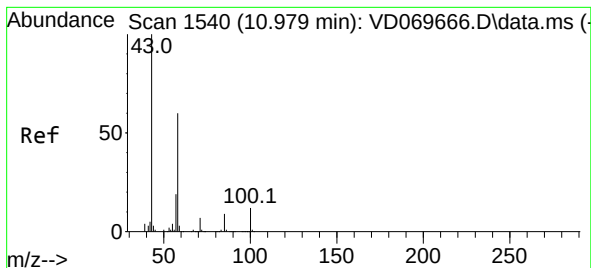
Tgt Ion: 69 Resp: 11422
Ion Ratio Lower Upper
69 100
41 173.9 49.5 74.3#
39 75.5 22.5 33.7#



#58
2-Chloroethyl Vinyl ether
Concen: 9.578 ug/l
RT: 9.950 min Scan# 1365
Delta R.T. 0.012 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion: 63 Resp: 756
Ion Ratio Lower Upper
63 100
106 0.0 21.1 31.7#

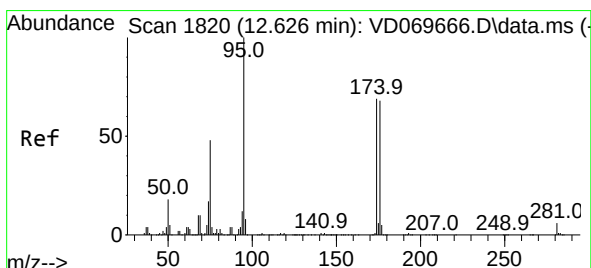
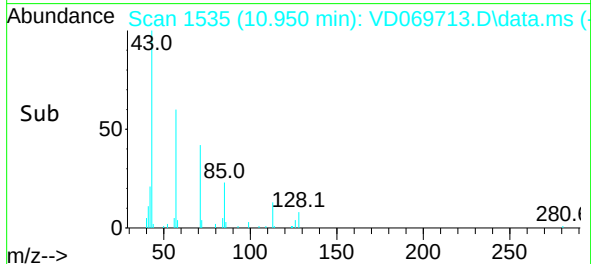
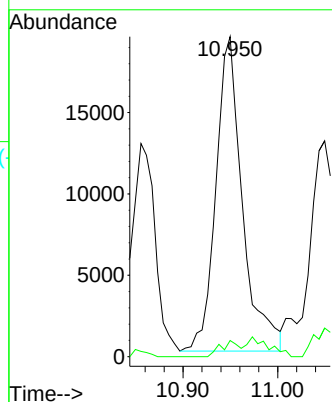
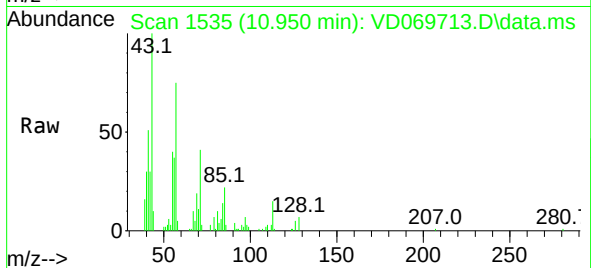




#59
2-Hexanone
Concen: 13.863 ug/l
RT: 10.950 min Scan# 1535
Delta R.T. -0.029 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

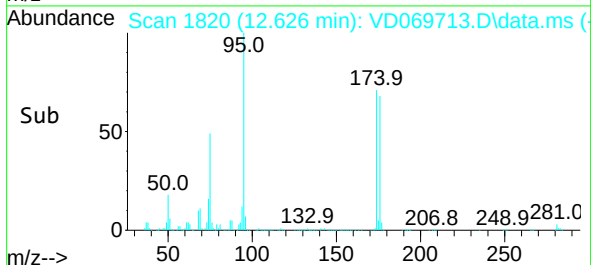
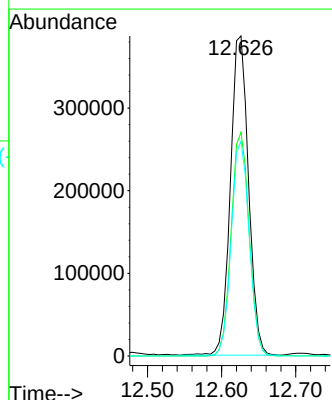
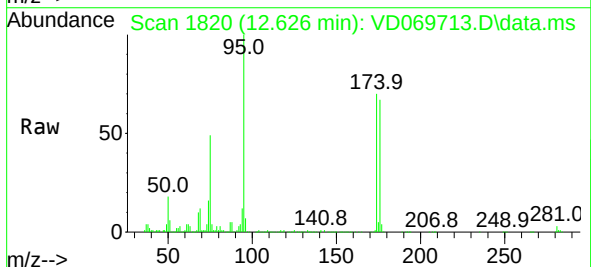
Instrument :
MSVOA_D
ClientSampleId :

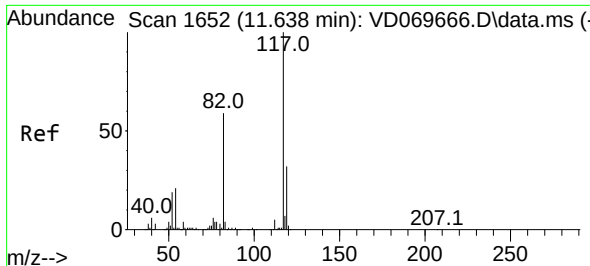
Tgt Ion: 43 Resp: 37658
Ion Ratio Lower Upper
43 100
58 3.5 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 68.357 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion: 95 Resp: 654345
Ion Ratio Lower Upper
95 100
174 69.7 0.0 140.0
176 66.9 0.0 136.2

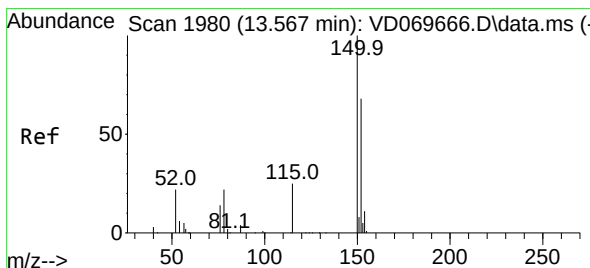
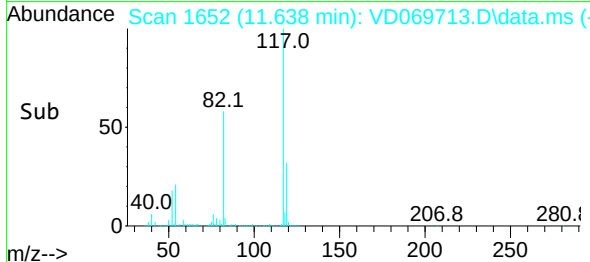
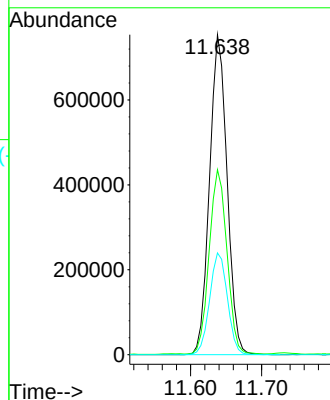
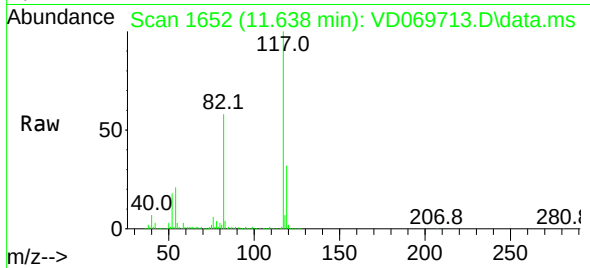




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

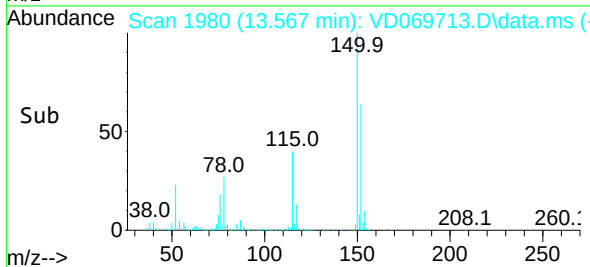
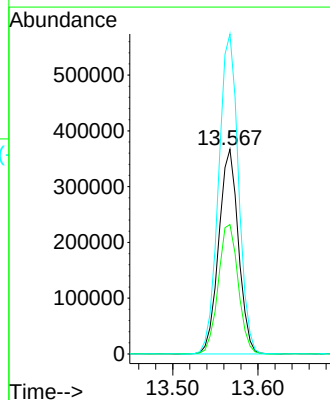
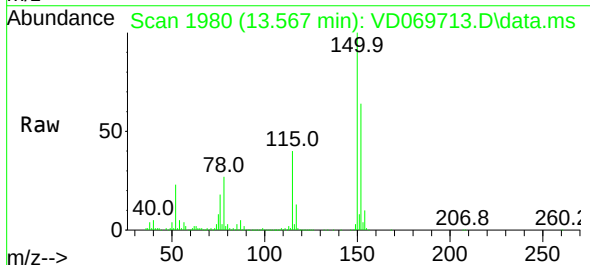
Instrument :
MSVOA_D
ClientSampleId :

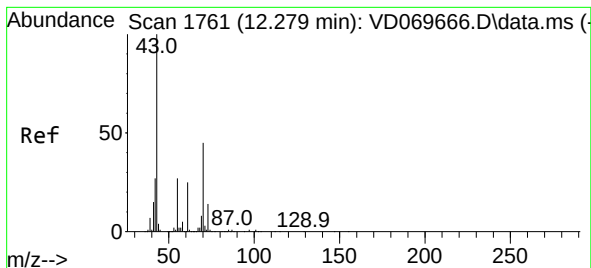
Tgt Ion:117 Resp: 1295423
Ion Ratio Lower Upper
117 100
82 57.5 47.4 71.2
119 31.8 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion:152 Resp: 589434
Ion Ratio Lower Upper
152 100
115 64.4 31.7 95.1
150 157.6 0.0 350.4

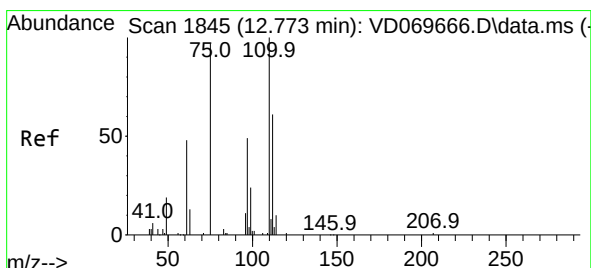
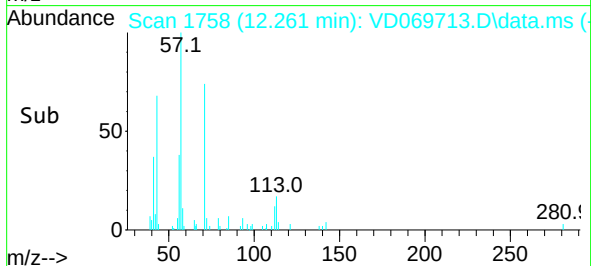
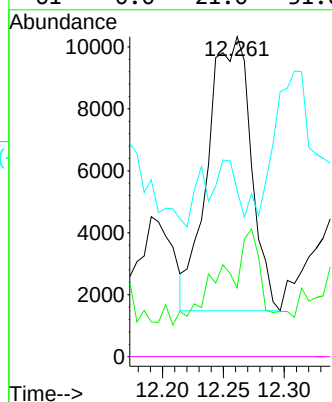
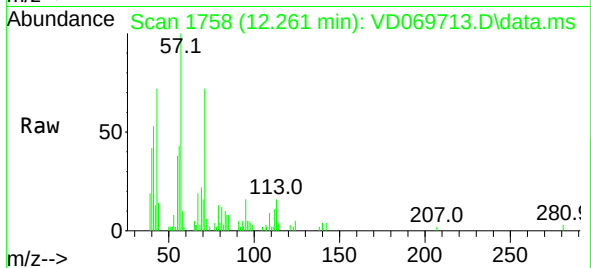




#74
N-amy1 acetate
Concen: 2.381 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

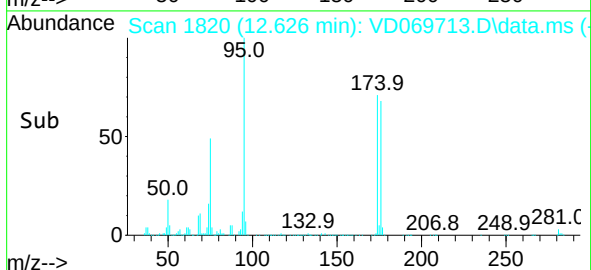
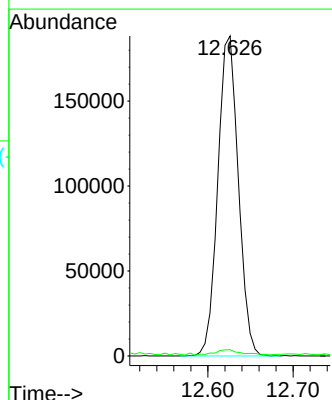
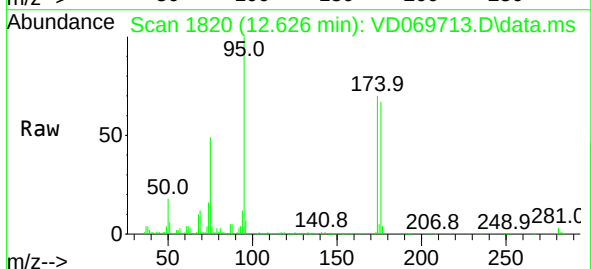
Instrument :
MSVOA_D
ClientSampleId :

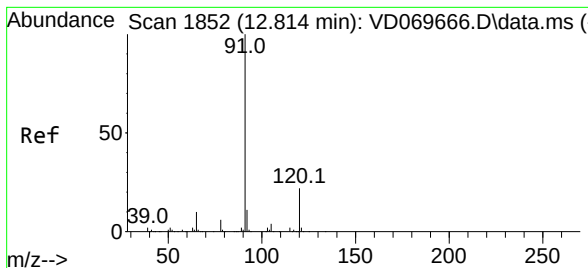
Tgt Ion: 43 Resp: 21718
Ion Ratio Lower Upper
43 100
70 32.0 36.9 55.3#
55 0.0 22.4 33.6#
61 0.0 21.0 31.6#



#76
1,2,3-Trichloropropane
Concen: 55.094 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion: 75 Resp: 315479
Ion Ratio Lower Upper
75 100
77 2.2 0.0 0.0#

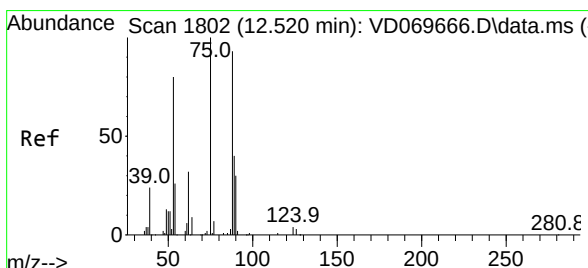
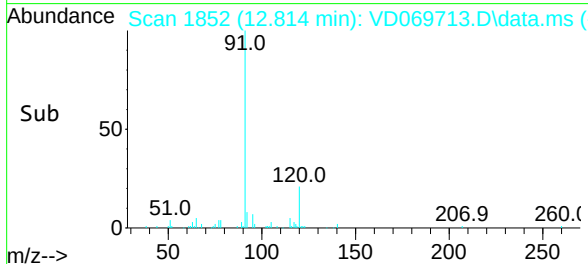
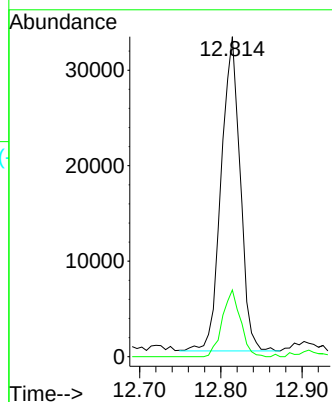
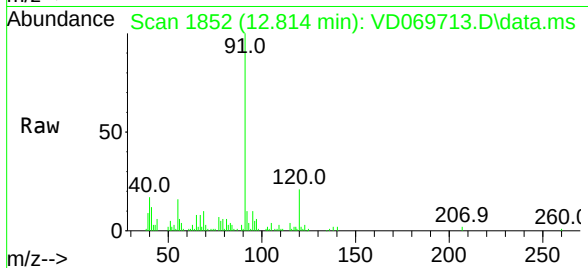




#78
n-propylbenzene
Concen: 1.009 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

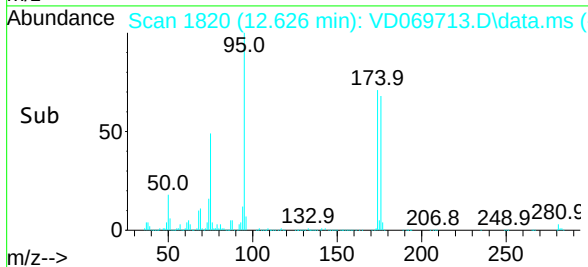
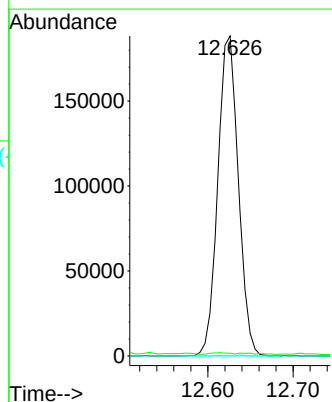
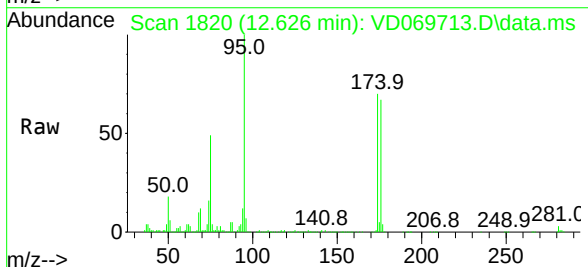
Instrument :
MSVOA_D
ClientSampled :

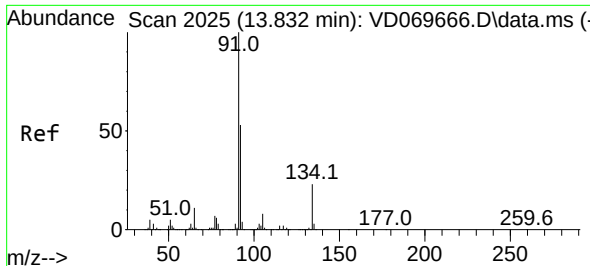
Tgt Ion: 91 Resp: 53696
Ion Ratio Lower Upper
91 100
120 20.2 10.8 32.4



#81
trans-1,4-Dichloro-2-butene
Concen: 148.063 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion: 75 Resp: 315479
Ion Ratio Lower Upper
75 100
53 0.3 70.6 106.0#
89 0.1 35.1 52.7#

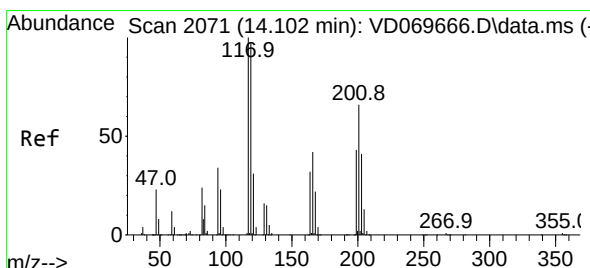
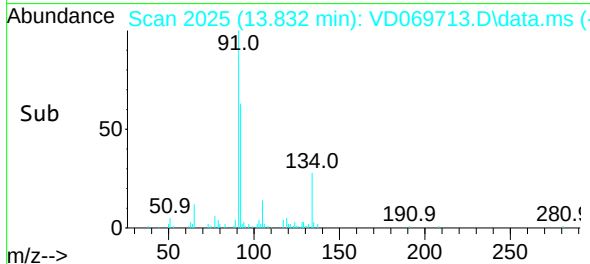
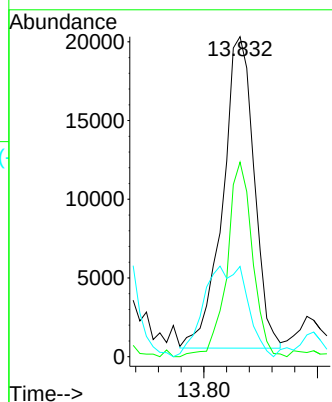
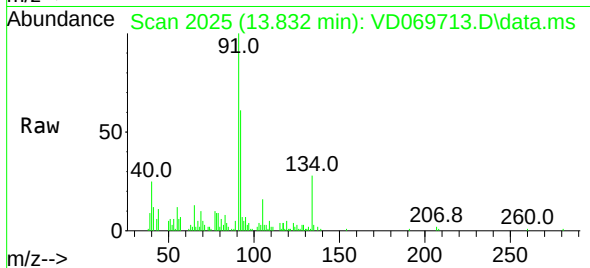




#89
n-Butylbenzene
Concen: 1.032 ug/l
RT: 13.832 min Scan# 2025
Delta R.T. -0.000 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

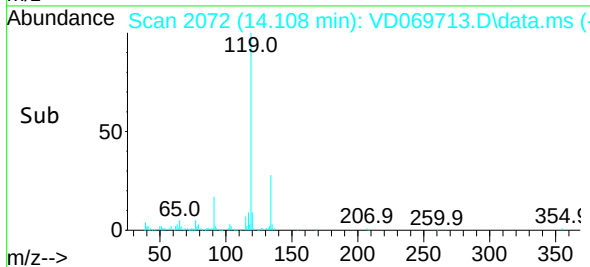
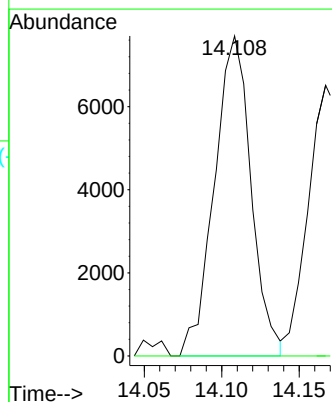
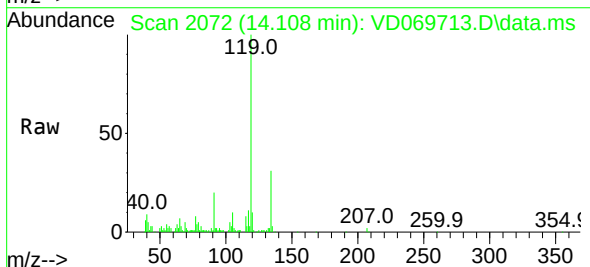
Instrument :
MSVOA_D
ClientSampleId :

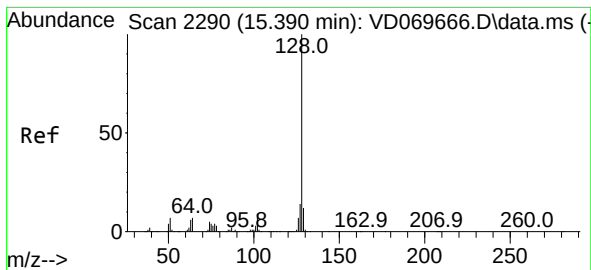
Tgt Ion: 91 Resp: 37985
Ion Ratio Lower Upper
91 100
92 50.5 26.6 79.8
134 40.4 11.7 35.1#



#90
Hexachloroethane
Concen: 1.679 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.006 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Tgt Ion: 117 Resp: 12692
Ion Ratio Lower Upper
117 100
201 0.0 31.9 95.5#





#95
Naphthalene
Concen: 2.473 ug/l
RT: 15.385 min Scan# 2289
Delta R.T. -0.005 min
Lab File: VD069713.D
Acq: 15 Jul 2021 18:01

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 5228
Ion Ratio Lower Upper
128 100
127 25.8 10.6 16.0#
129 18.2 8.8 13.2#

