

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102821\
 Data File : VN069284.D
 Acq On : 29 Oct 2021 6:52
 Operator : JC/MD
 Sample : M4378-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 29 07:58:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102821W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 28 16:09:15 2021
 Response via : Initial Calibration

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

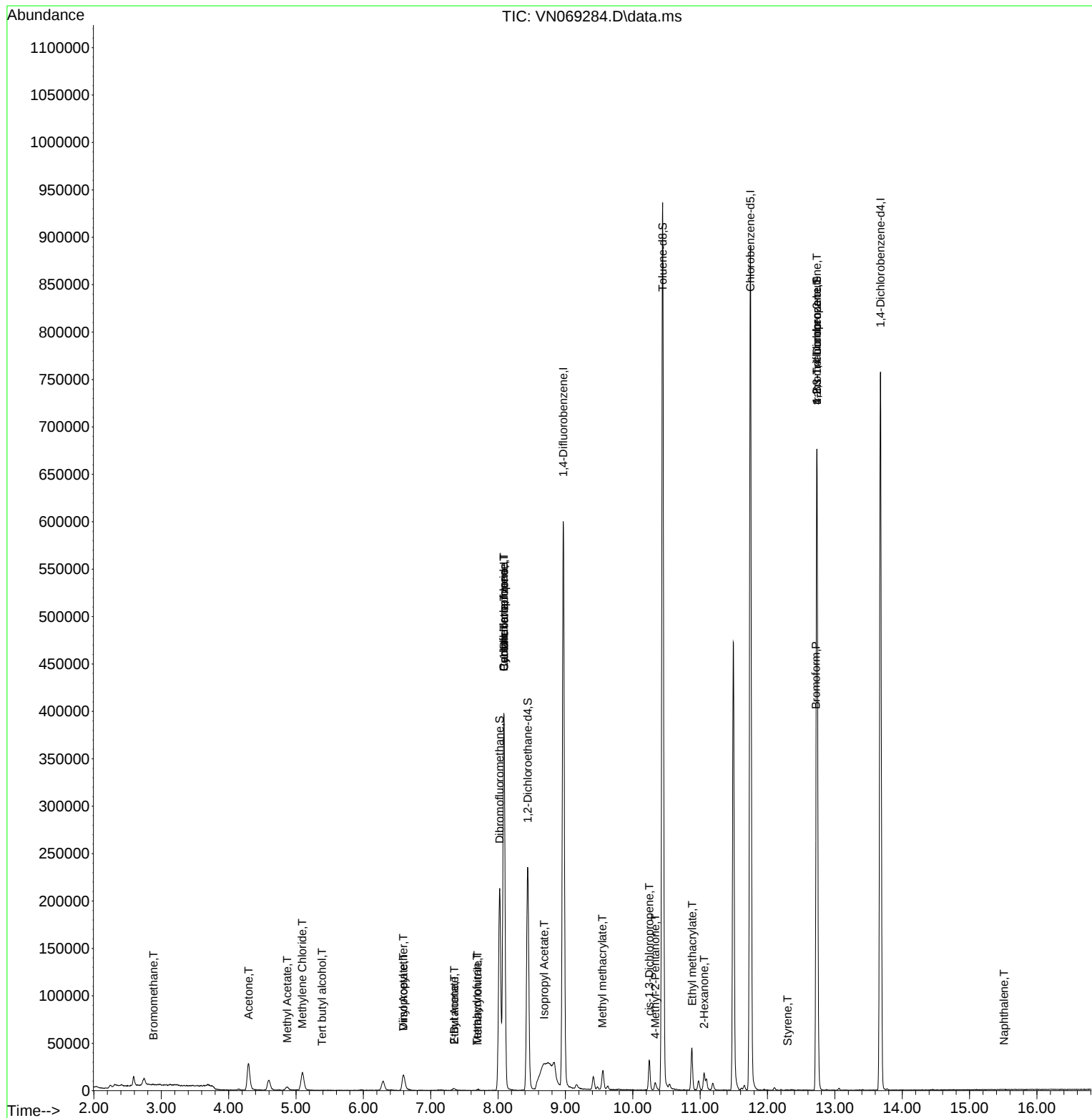
Internal Standards						
1) Pentafluorobenzene	8.088	168	298715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	535312	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	525006	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	202786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	201586	46.749	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	93.500%		
35) Dibromofluoromethane	8.024	113	153150	45.895	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	91.800%		
50) Toluene-d8	10.443	98	664927	49.837	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	99.680%		
62) 4-Bromofluorobenzene	12.734	95	245084	48.679	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	97.360%		
Target Compounds			Qvalue			
3) Chloromethane	2.306	50	438	Below Cal	#	42
5) Bromomethane	2.883	94	538	0.214	ug/l #	80
11) Tert butyl alcohol	5.388	59	140	13.565	ug/l #	72
16) Acetone	4.296	43	53604	29.177	ug/l	99
18) Methyl Acetate	4.870	43	8188	1.311	ug/l #	76
20) Methylene Chloride	5.093	84	15405	4.372	ug/l	95
22) Diisopropyl ether	6.592	45	1132	0.955	ug/l #	1
23) Vinyl Acetate	6.592	43	3677	6.997	ug/l #	72
25) 2-Butanone	7.351	43	2898	2.657	ug/l	92
29) Tetrahydrofuran	7.686	42	232	3.063	ug/l #	33
31) Cyclohexane	8.088	56	6599	1.143	ug/l #	9
36) 1,1-Dichloropropene	8.086	75	25017	5.421	ug/l #	50
37) Ethyl Acetate	7.351	43	2898	0.551	ug/l #	68
38) Carbon Tetrachloride	8.088	117	31002	6.797	ug/l #	15
41) Methacrylonitrile	7.697	41	593	0.229	ug/l #	21
43) Isopropyl Acetate	8.687	43	55466	6.451	ug/l #	56
48) Methyl methacrylate	9.550	41	8303	2.092	ug/l #	24
51) 4-Methyl-2-Pentanone	10.336	43	7515	7.629	ug/l #	80
54) cis-1,3-Dichloropropene	10.245	75	5680	2.397	ug/l #	66
56) Ethyl methacrylate	10.880	69	51	1.691	ug/l #	1
59) 2-Hexanone	11.060	43	17026	11.611	ug/l #	25
70) Styrene	12.299	104	102	1.464	ug/l #	24
71) Bromoform	12.720	173	396	2.988	ug/l #	1
76) 1,2,3-Trichloropropane	12.734	75	129744	24.326	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	129744	69.789	ug/l #	12
95) Naphthalene	15.509	128	294	3.335	ug/l #	69

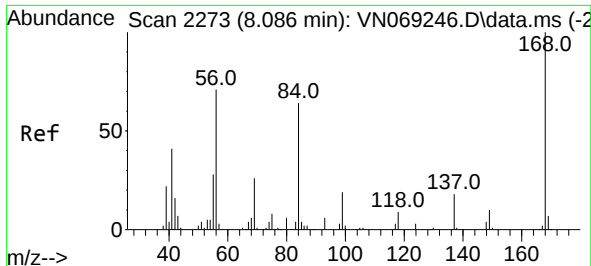
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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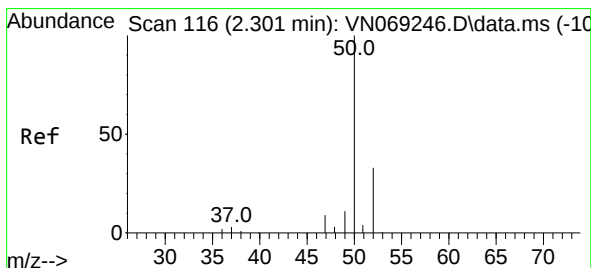
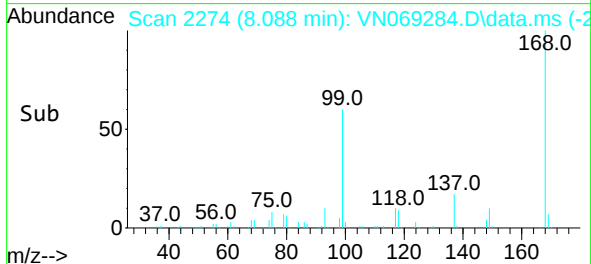
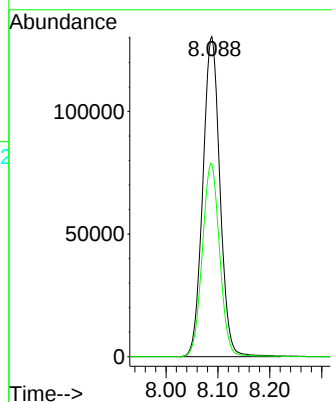
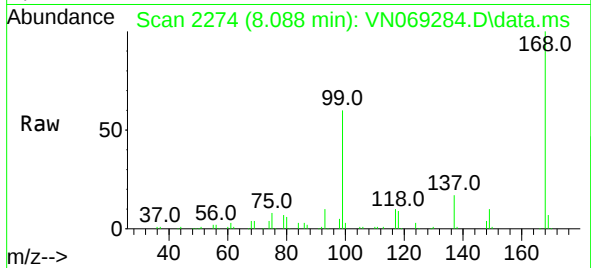




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

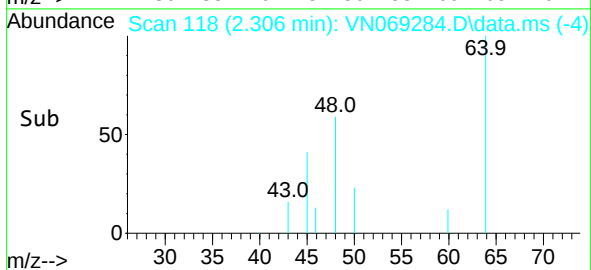
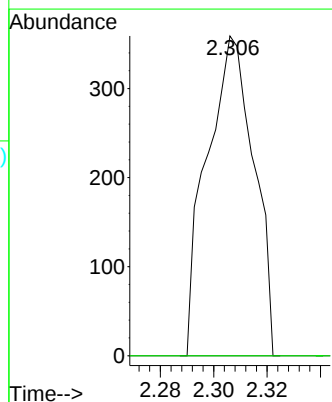
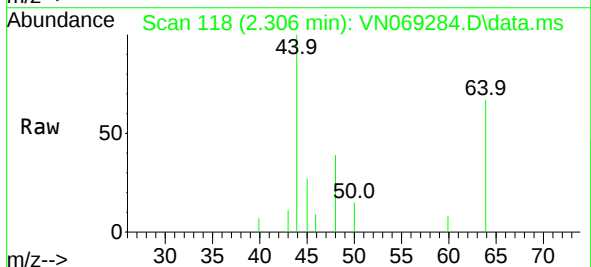
Instrument :
MSVOA_D
ClientSampled :

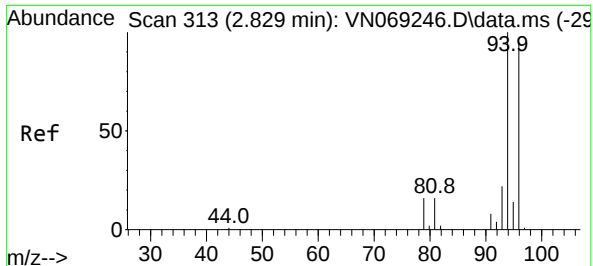
Tgt Ion:168 Resp: 298715
Ion Ratio Lower Upper
168 100
99 60.2 48.9 73.3



#3
Chloromethane
Concen: Below Cal
RT: 2.306 min Scan# 118
Delta R.T. 0.005 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion: 50 Resp: 438
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#

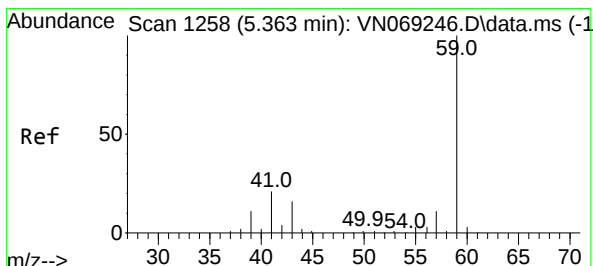
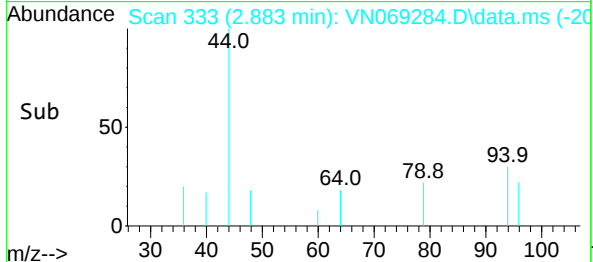
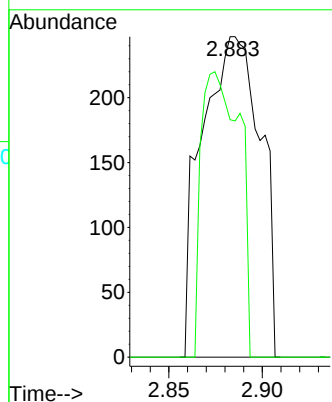
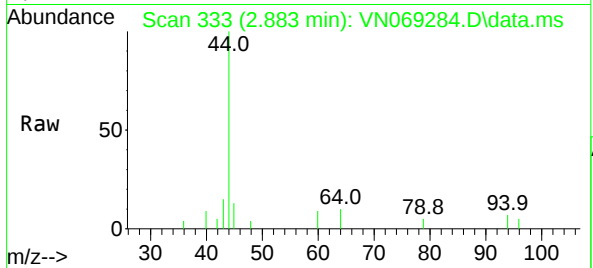




#5
Bromomethane
Concen: 0.214 ug/l
RT: 2.883 min Scan# 333
Delta R.T. 0.054 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

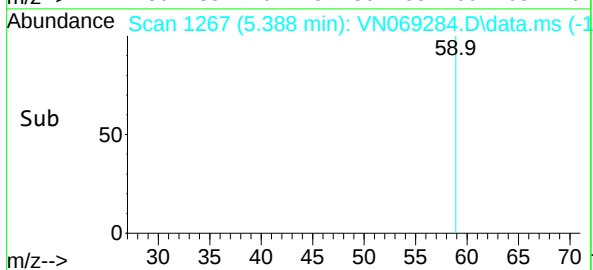
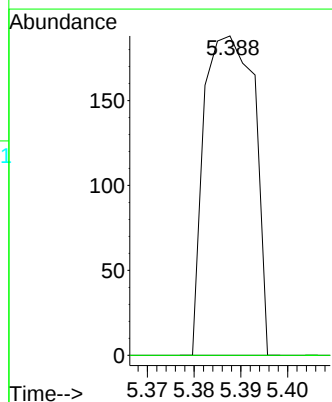
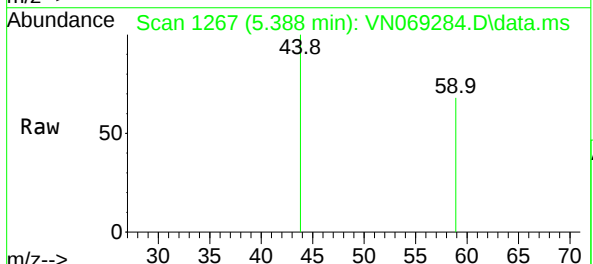
Instrument :
MSVOA_D
ClientSampled :

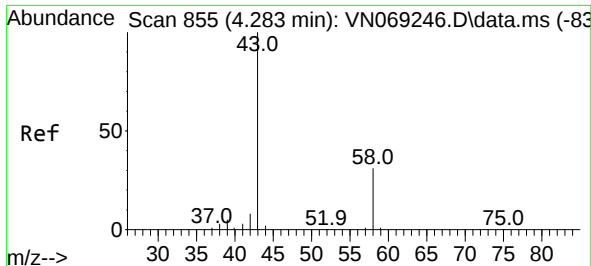
Tgt Ion: 94 Resp: 538
Ion Ratio Lower Upper
94 100
96 74.1 74.2 111.4#



#11
Tert butyl alcohol
Concen: 13.565 ug/l
RT: 5.388 min Scan# 1267
Delta R.T. 0.025 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion: 59 Resp: 140
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

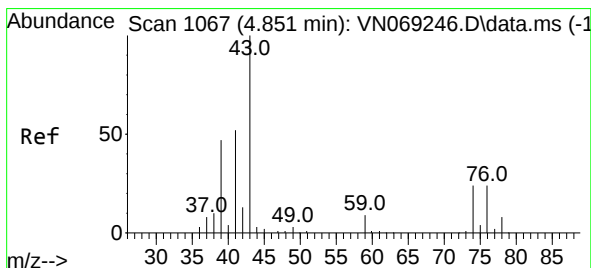
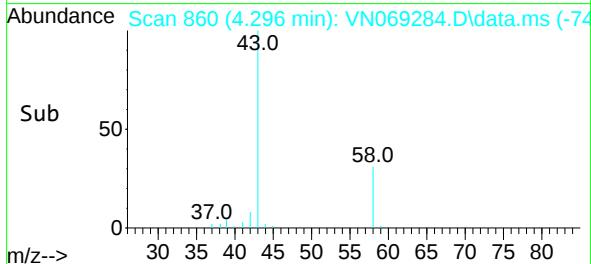
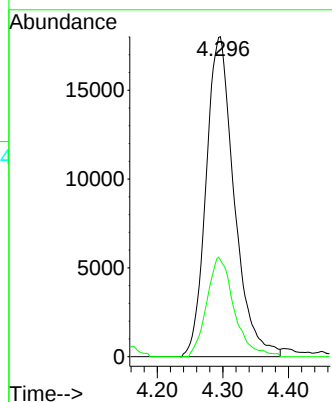
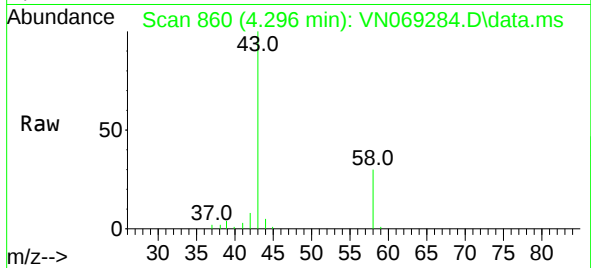




#16
Acetone
Concen: 29.177 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.013 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

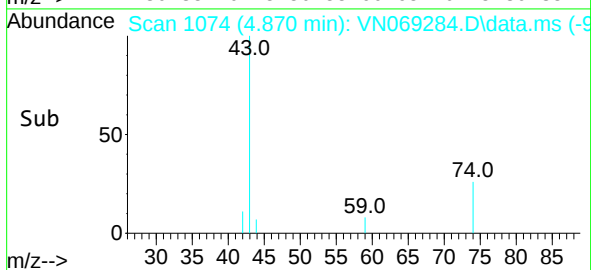
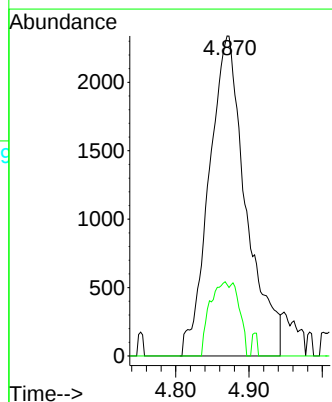
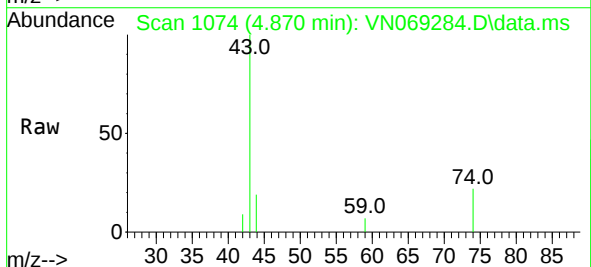
Instrument :
MSVOA_D
ClientSampled :

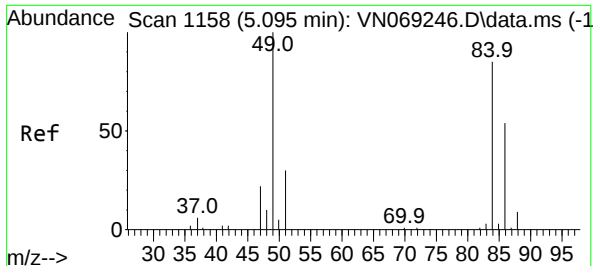
Tgt Ion: 43 Resp: 53604
Ion Ratio Lower Upper
43 100
58 30.3 24.5 36.7



#18
Methyl Acetate
Concen: 1.311 ug/l
RT: 4.870 min Scan# 1074
Delta R.T. 0.019 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

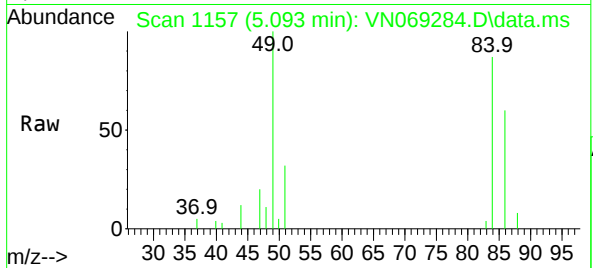
Tgt Ion: 43 Resp: 8188
Ion Ratio Lower Upper
43 100
74 11.9 18.9 28.3#



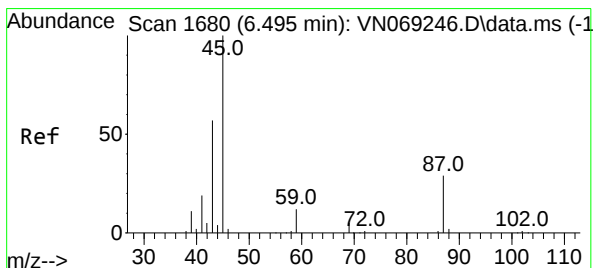
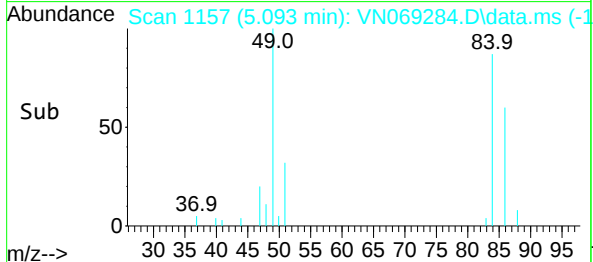
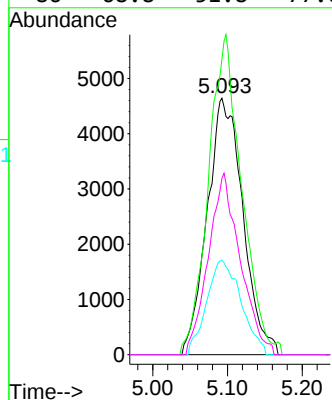


#20
Methylene Chloride
Concen: 4.372 ug/l
RT: 5.093 min Scan# 1157
Delta R.T. -0.002 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

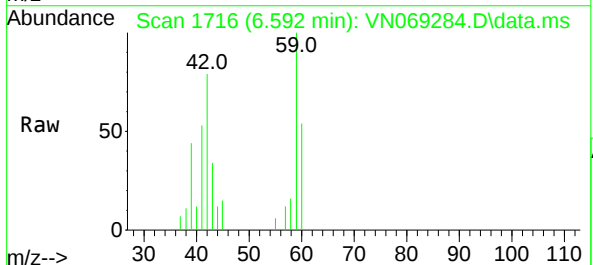
Instrument :
MSVOA_D
ClientSampleId :



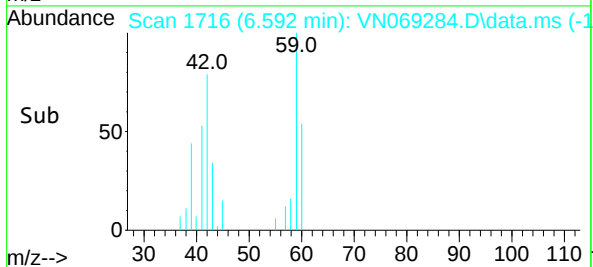
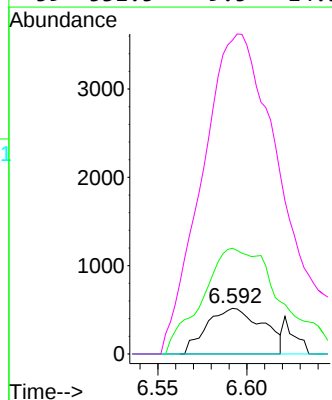
Tgt Ion:	84	Resp:	15405
Ion	Ratio	Lower	Upper
84	100		
49	115.4	97.6	146.4
51	36.8	30.3	45.5
86	68.8	51.8	77.6

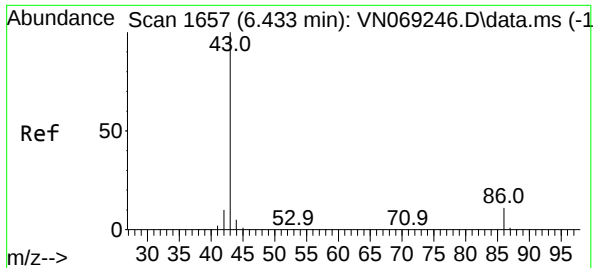


#22
Diisopropyl ether
Concen: 0.955 ug/l
RT: 6.592 min Scan# 1716
Delta R.T. 0.097 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52



Tgt Ion:	45	Resp:	1132
Ion	Ratio	Lower	Upper
45	100		
43	164.8	48.0	72.0#
87	0.0	23.4	35.0#
59	531.5	9.5	14.3#

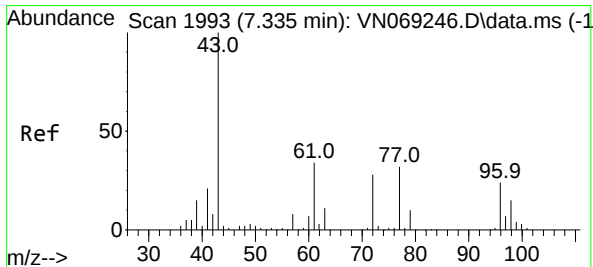
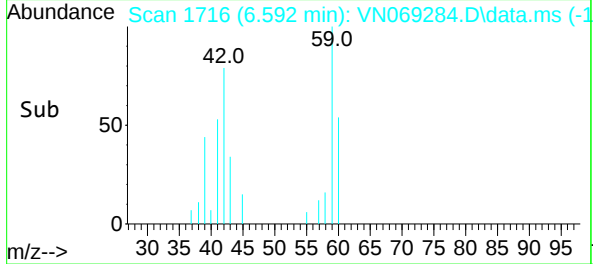
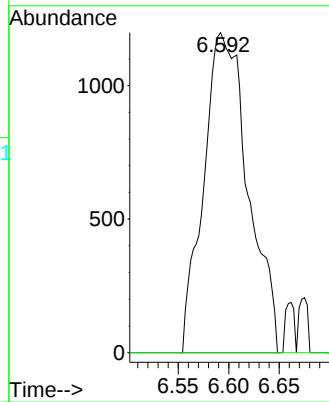
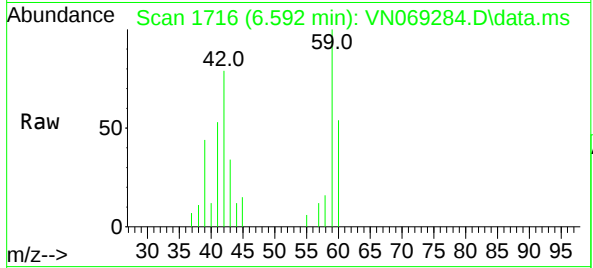




#23
 Vinyl Acetate
 Concen: 6.997 ug/l
 RT: 6.592 min Scan# 1716
 Delta R.T. 0.159 min
 Lab File: VN069284.D
 Acq: 29 Oct 2021 6:52

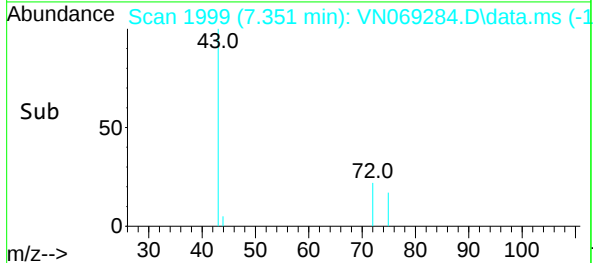
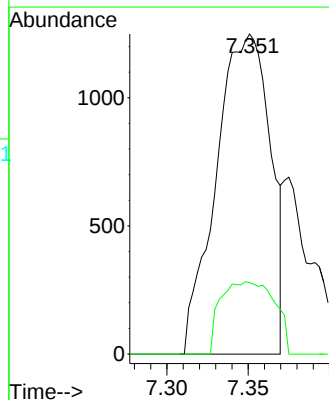
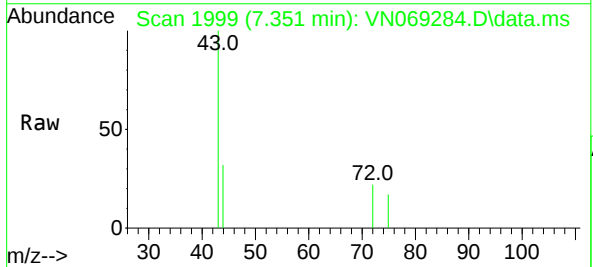
Instrument :
 MSVOA_D
 ClientSampled :

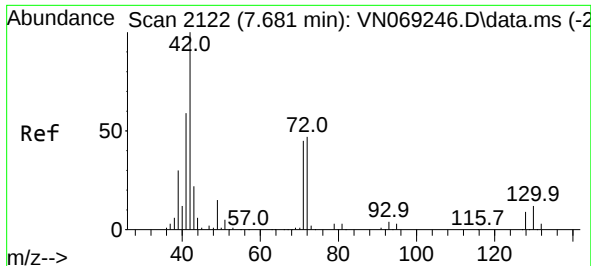
Tgt Ion: 43 Resp: 3677
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.3 12.5#



#25
 2-Butanone
 Concen: 2.657 ug/l
 RT: 7.351 min Scan# 1999
 Delta R.T. 0.016 min
 Lab File: VN069284.D
 Acq: 29 Oct 2021 6:52

Tgt Ion: 43 Resp: 2898
 Ion Ratio Lower Upper
 43 100
 72 22.3 21.2 31.8





#29

Tetrahydrofuran

Concen: 3.063 ug/l

RT: 7.686 min Scan# 2124

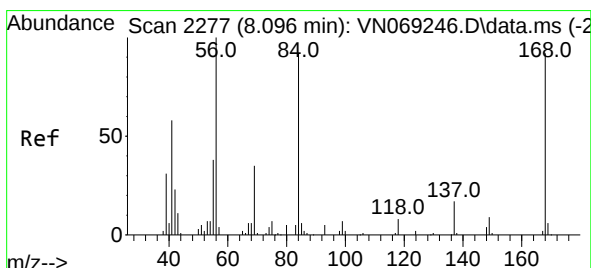
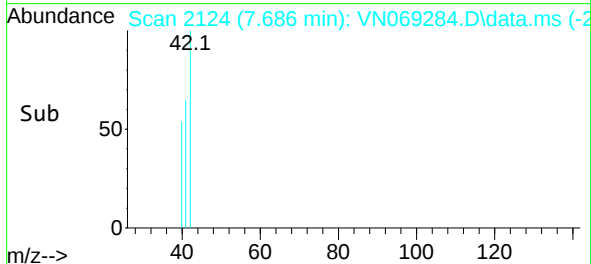
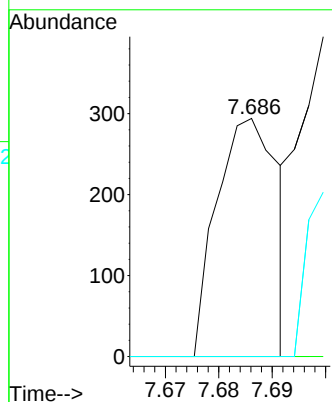
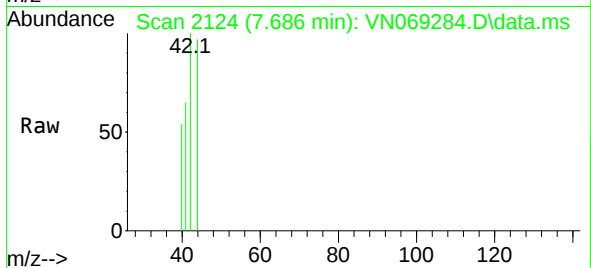
Delta R.T. 0.005 min

Lab File: VN069284.D

Acq: 29 Oct 2021 6:52

Tgt Ion:	42	Resp:	232
Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.4	53.2#
71	0.0	33.8	50.6#

Instrument :
MSVOA_D
ClientSampled :



#31

Cyclohexane

Concen: 1.143 ug/l

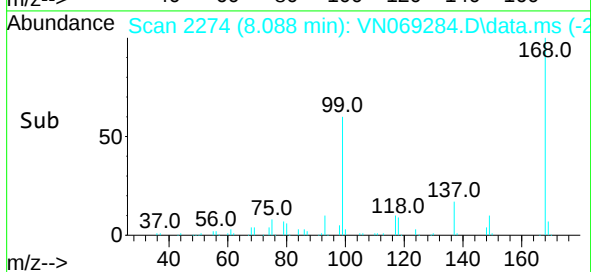
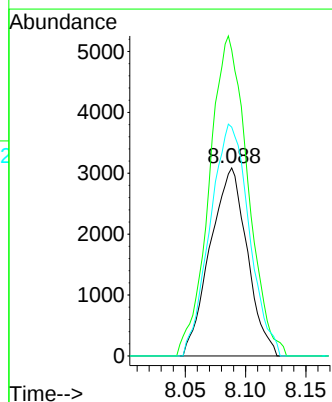
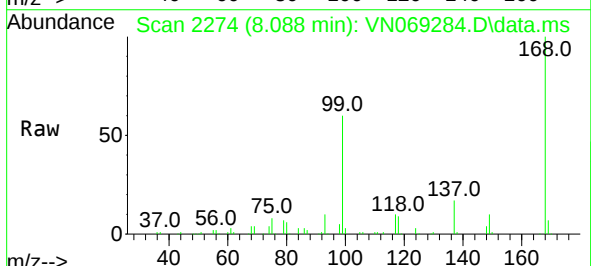
RT: 8.088 min Scan# 2274

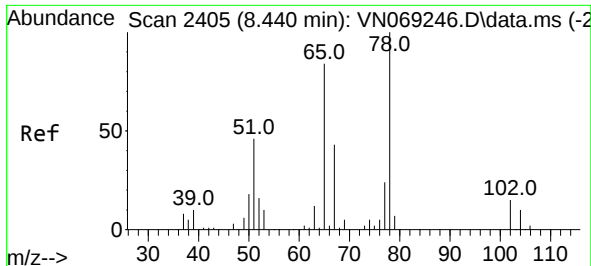
Delta R.T. -0.008 min

Lab File: VN069284.D

Acq: 29 Oct 2021 6:52

Tgt Ion:	56	Resp:	6599
Ion	Ratio	Lower	Upper
56	100		
69	156.4	26.9	40.3#
84	121.7	67.6	101.4#



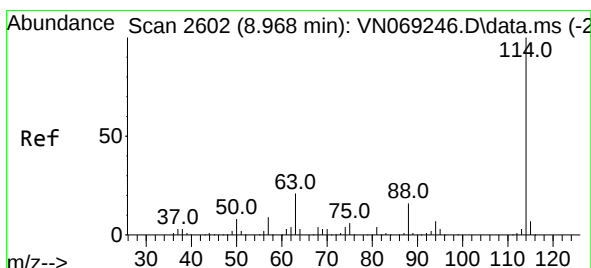
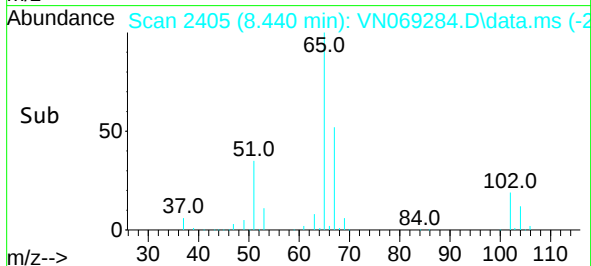
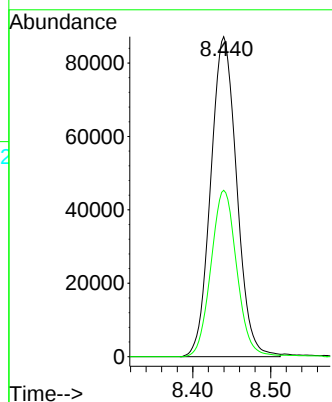
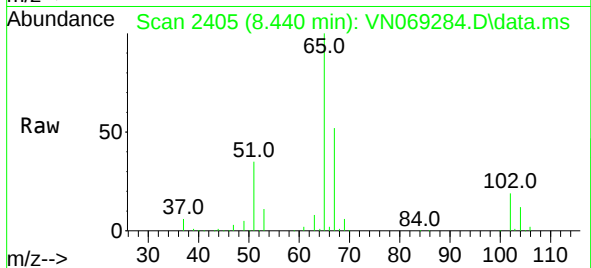


#33

1,2-Dichloroethane-d4
Concen: 46.749 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Instrument :
MSVOA_D
ClientSampleId :

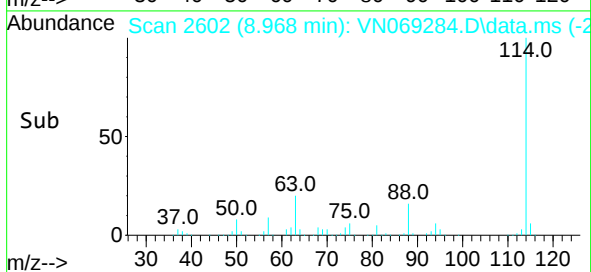
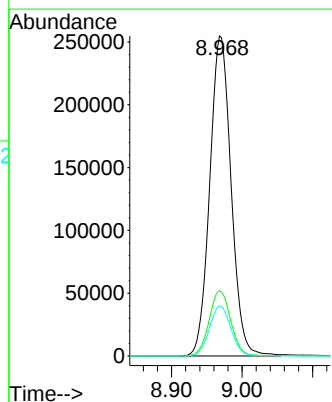
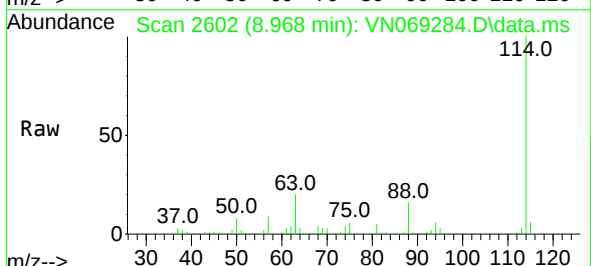
Tgt Ion: 65 Resp: 201586
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.8

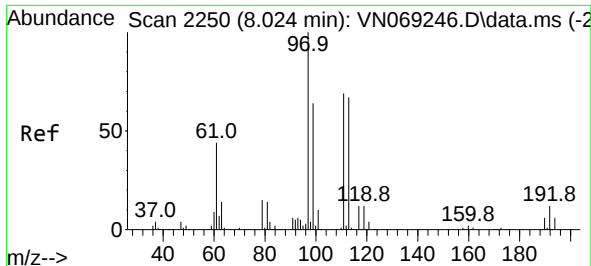


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. 0.000 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion: 114 Resp: 535312
Ion Ratio Lower Upper
114 100
63 20.4 0.0 42.6
88 15.7 0.0 32.0

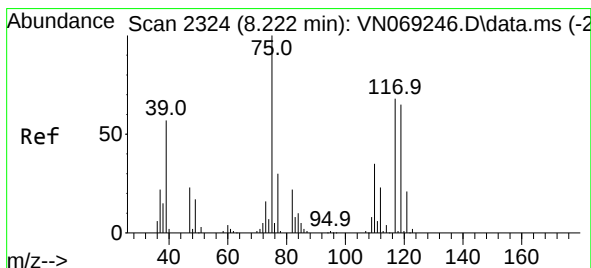
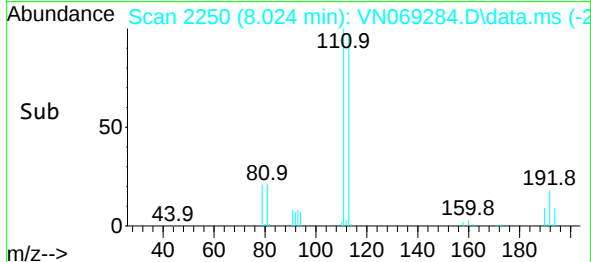
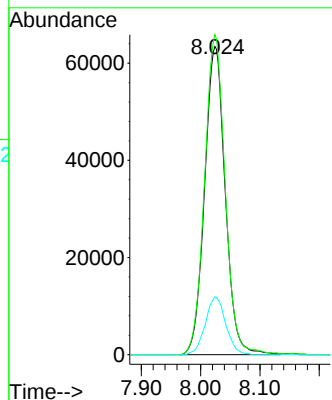
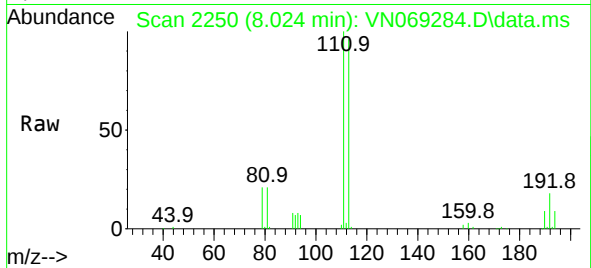




#35
Dibromofluoromethane
Concen: 45.895 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

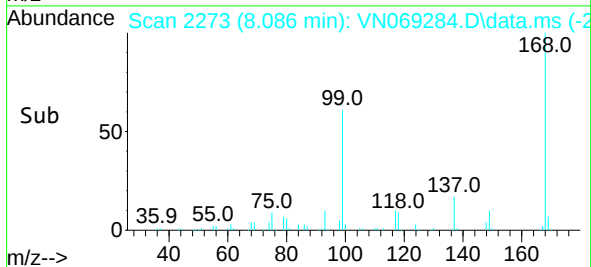
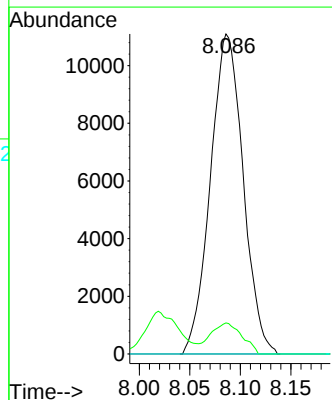
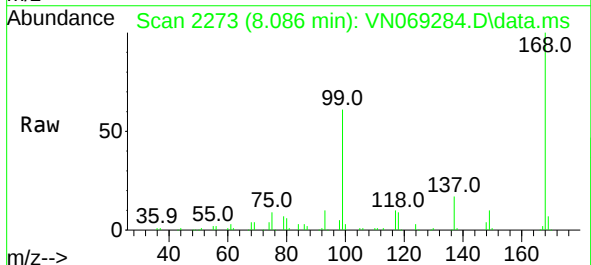
Instrument :
MSVOA_D
ClientSampled :

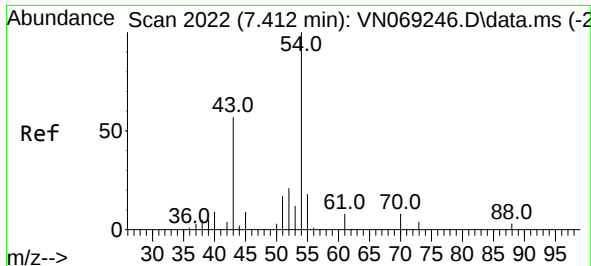
Tgt Ion:113 Resp: 153150
Ion Ratio Lower Upper
113 100
111 103.8 83.2 124.8
192 18.5 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.421 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion: 75 Resp: 25017
Ion Ratio Lower Upper
75 100
110 9.3 17.9 53.8#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.551 ug/l

RT: 7.351 min Scan# 1999

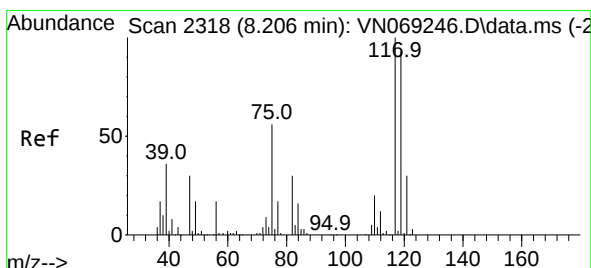
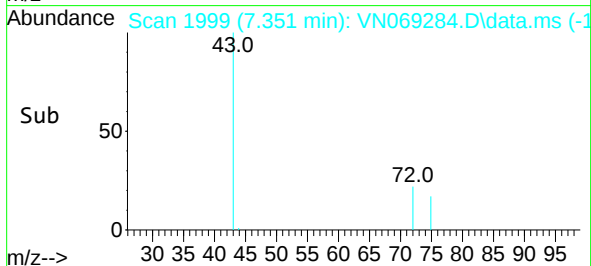
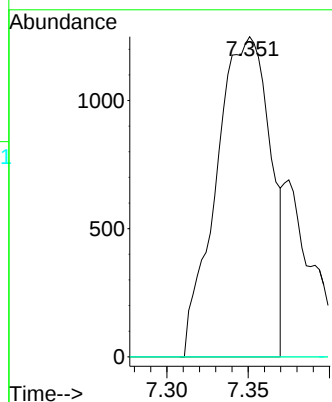
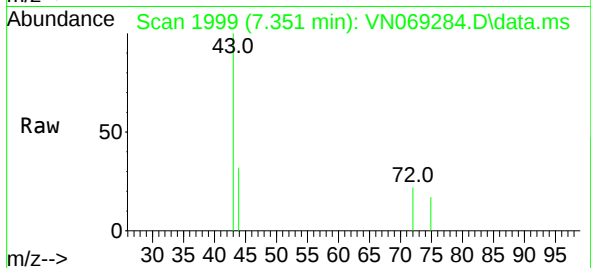
Delta R.T. -0.061 min

Lab File: VN069284.D

Acq: 29 Oct 2021 6:52

Tgt Ion:	43	Resp:	2898
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.2	16.8#
70	0.0	8.4	12.6#

Instrument :
MSVOA_D
ClientSampled :



#38

Carbon Tetrachloride

Concen: 6.797 ug/l

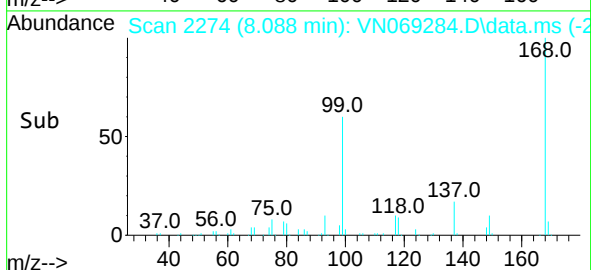
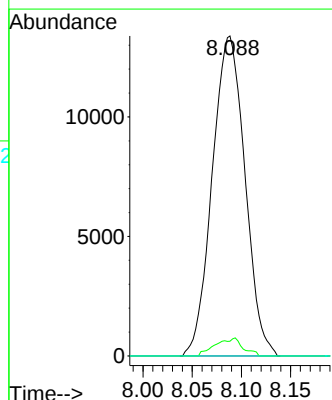
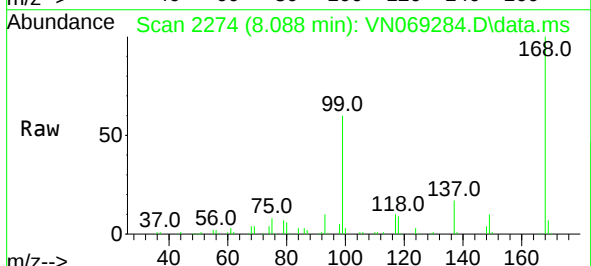
RT: 8.088 min Scan# 2274

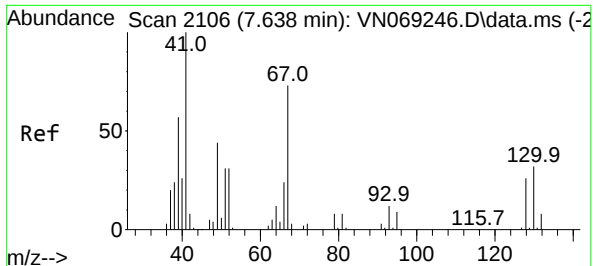
Delta R.T. -0.118 min

Lab File: VN069284.D

Acq: 29 Oct 2021 6:52

Tgt Ion:	117	Resp:	31002
Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.9	115.3#
121	0.0	24.6	37.0#

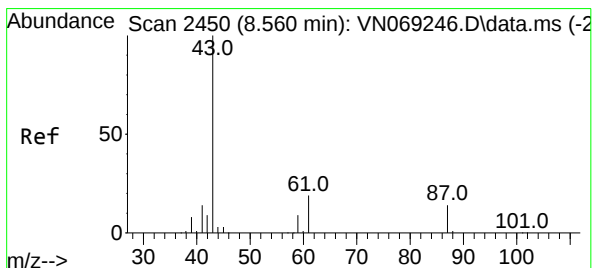
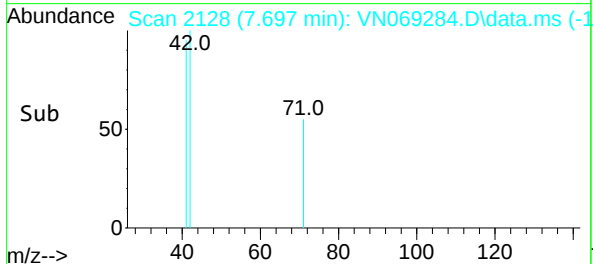
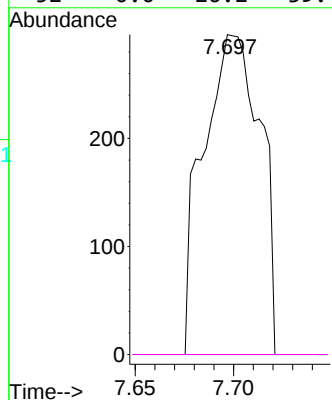
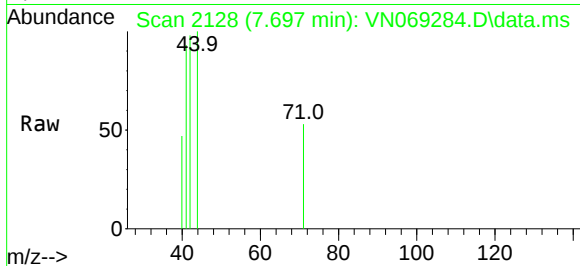




#41
Methacrylonitrile
Concen: 0.229 ug/l
RT: 7.697 min Scan# 2128
Delta R.T. 0.059 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

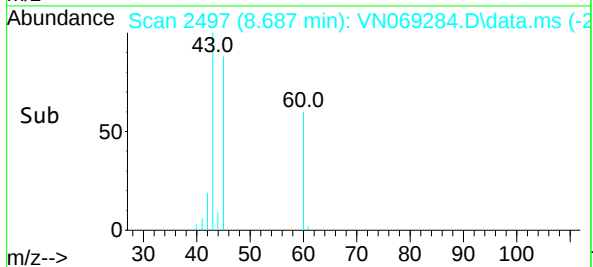
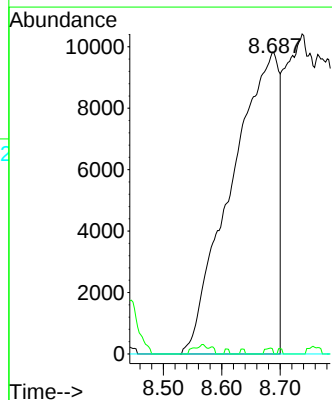
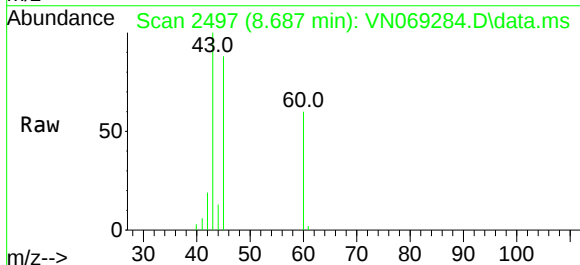
Instrument :
MSVOA_D
ClientSampleId :

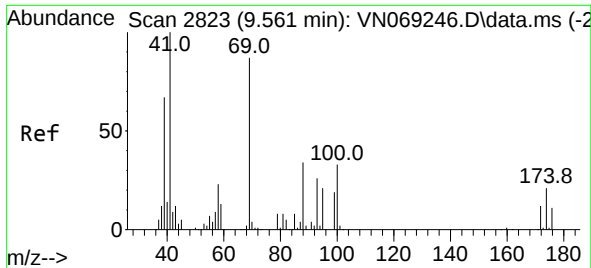
Tgt Ion: 41	Resp: 593
Ion Ratio	Lower Upper
41 100	
39 0.0	44.9 67.3#
67 0.0	62.6 93.8#
52 0.0	26.2 39.4#



#43
Isopropyl Acetate
Concen: 6.451 ug/l
RT: 8.687 min Scan# 2497
Delta R.T. 0.127 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion: 43	Resp: 55466
Ion Ratio	Lower Upper
43 100	
61 0.3	20.4 30.6#
87 0.0	10.7 16.1#

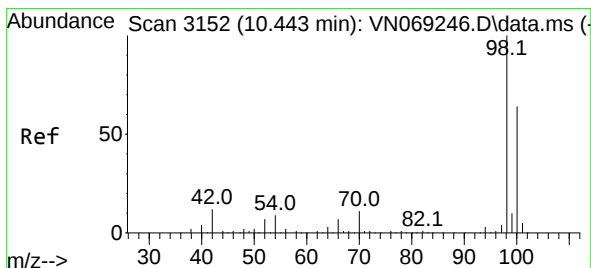
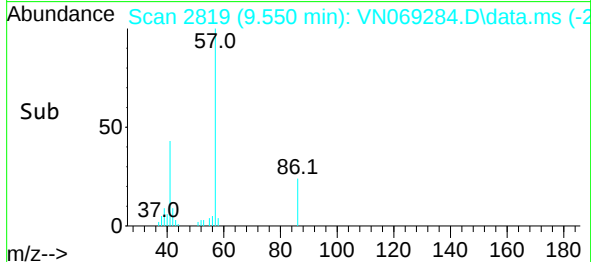
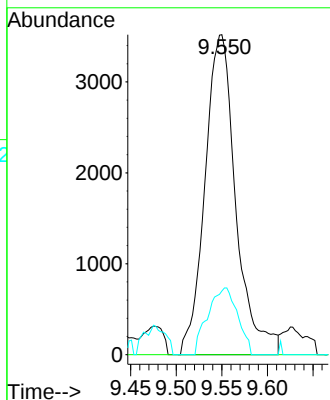
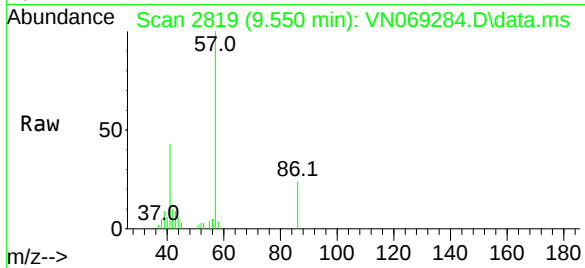




#48
Methyl methacrylate
Concen: 2.092 ug/l
RT: 9.550 min Scan# 2819
Delta R.T. -0.011 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

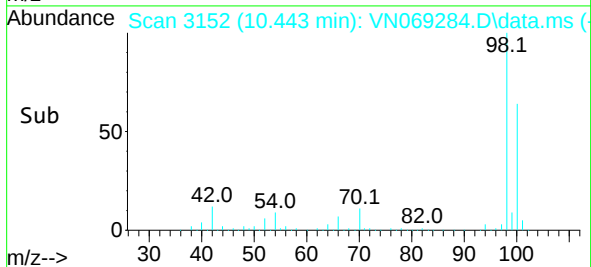
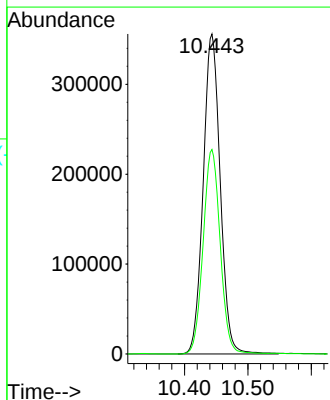
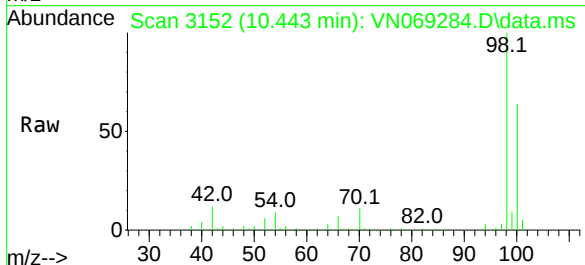
Instrument :
MSVOA_D
ClientSampleId :

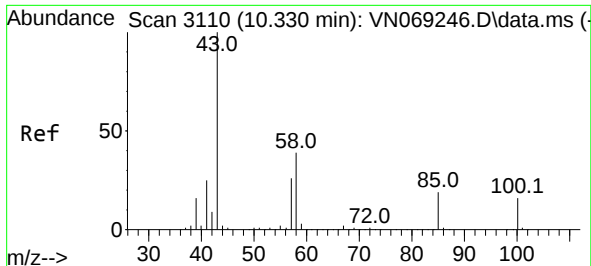
Tgt Ion: 41 Resp: 8303
Ion Ratio Lower Upper
41 100
69 0.0 66.4 99.6#
39 20.0 50.2 75.2#



#50
Toluene-d8
Concen: 49.837 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion: 98 Resp: 664927
Ion Ratio Lower Upper
98 100
100 64.0 51.5 77.3

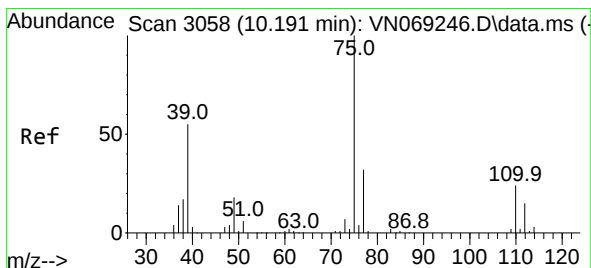
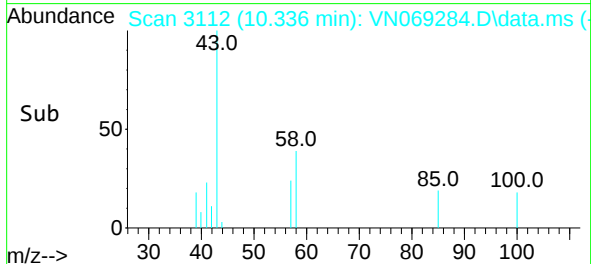
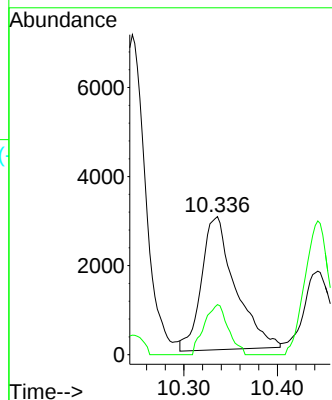
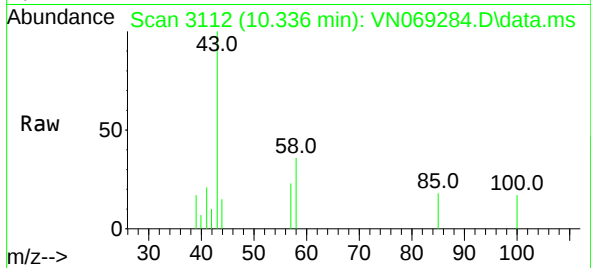




#51
4-Methyl-2-Pentanone
Concen: 7.629 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.006 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

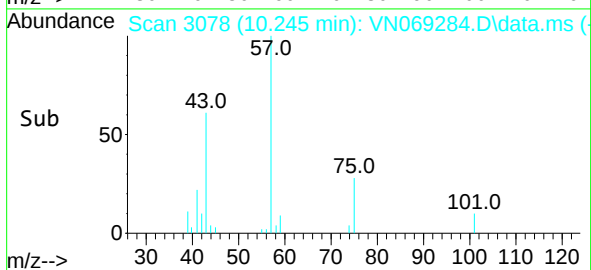
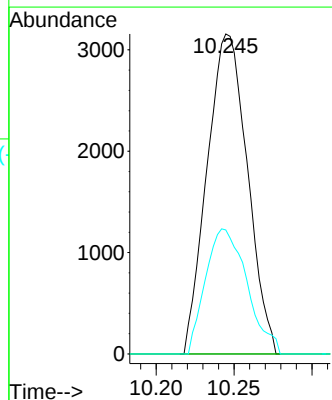
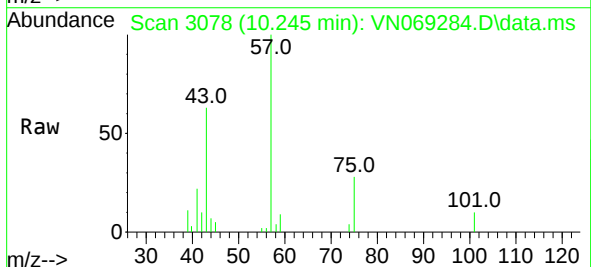
Instrument :
MSVOA_D
ClientSampled :

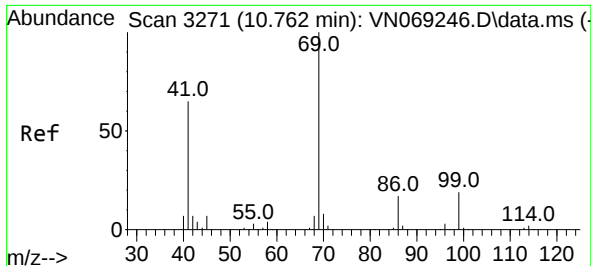
Tgt Ion: 43 Resp: 7515
Ion Ratio Lower Upper
43 100
58 26.7 31.0 46.4#



#54
cis-1,3-Dichloropropene
Concen: 2.397 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion: 75 Resp: 5680
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#
39 38.7 42.9 64.3#

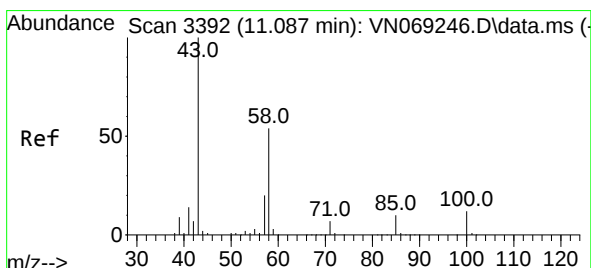
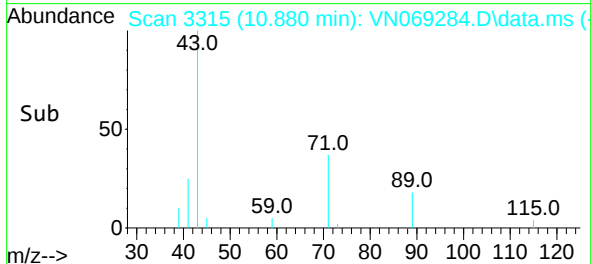
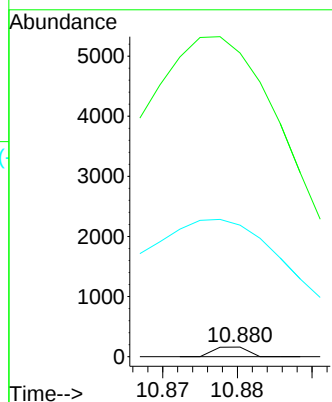
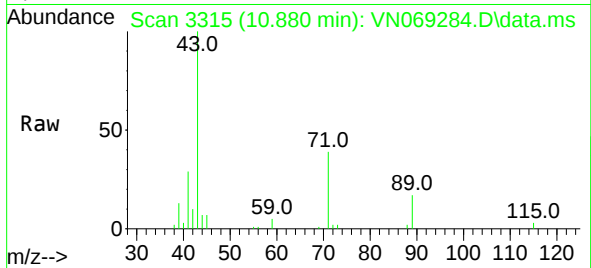




#56
Ethyl methacrylate
Concen: 1.691 ug/l
RT: 10.880 min Scan# 3315
Delta R.T. 0.118 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

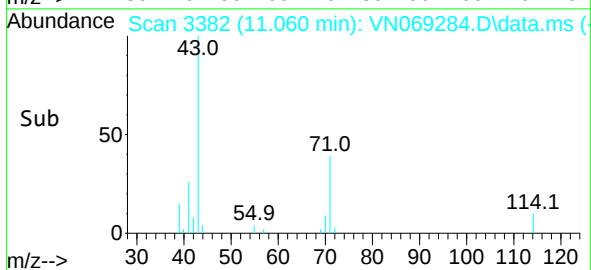
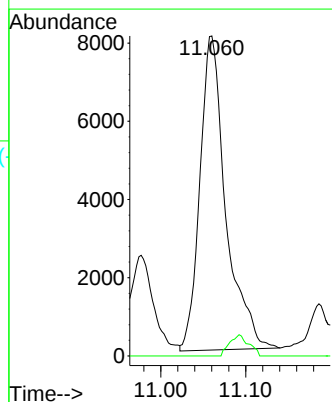
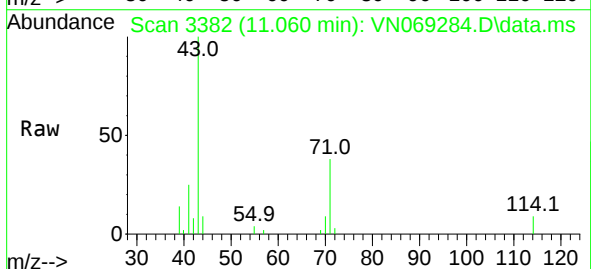
Instrument :
MSVOA_D
ClientSampled :

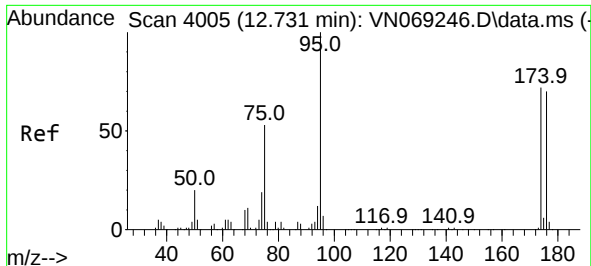
Tgt Ion: 69 Resp: 51
Ion Ratio Lower Upper
69 100
41 18494.1 53.3 79.9#
39 7888.2 33.3 49.9#



#59
2-Hexanone
Concen: 11.611 ug/l
RT: 11.060 min Scan# 3382
Delta R.T. -0.027 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion: 43 Resp: 17026
Ion Ratio Lower Upper
43 100
58 0.0 26.9 80.7#

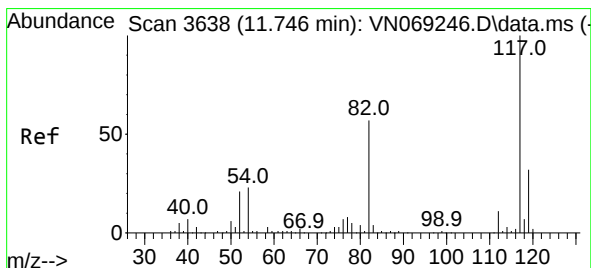
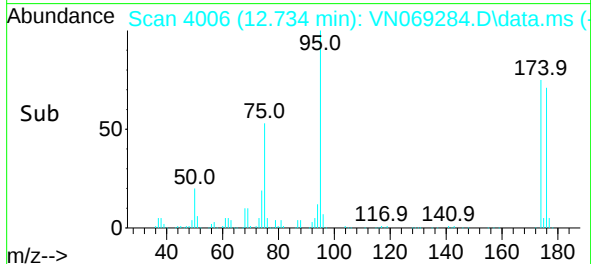
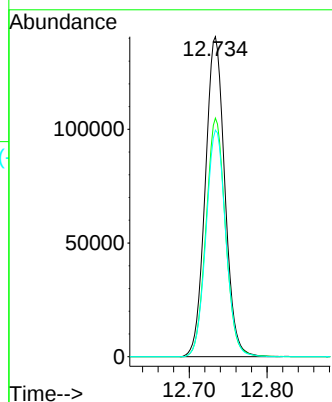
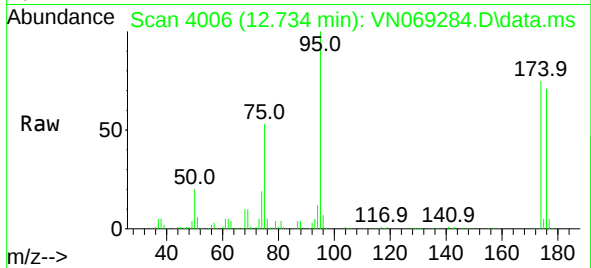




#62
4-Bromofluorobenzene
Concen: 48.679 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

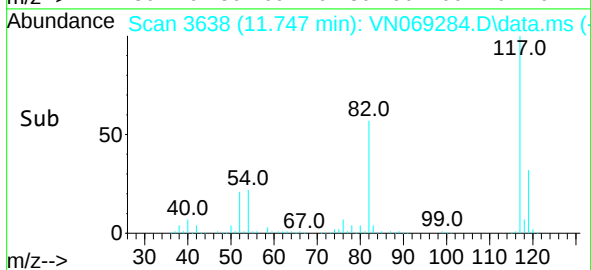
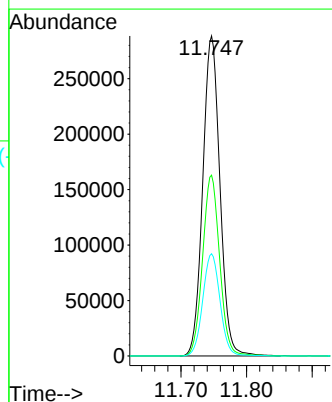
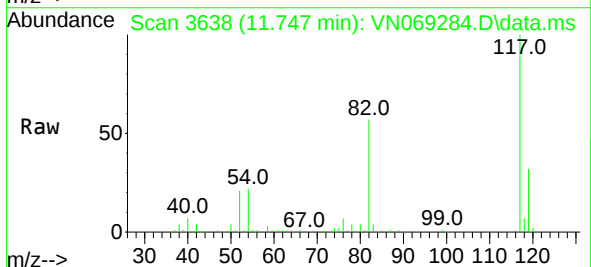
Instrument :
MSVOA_D
ClientSampleId :

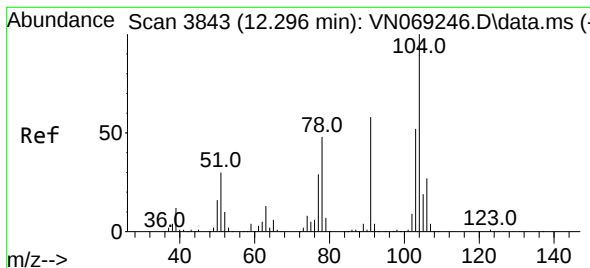
Tgt Ion: 95 Resp: 245084
Ion Ratio Lower Upper
95 100
174 74.4 0.0 144.8
176 71.7 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion: 117 Resp: 525006
Ion Ratio Lower Upper
117 100
82 56.5 46.4 69.6
119 31.9 26.0 39.0





#70

Styrene

Concen: 1.464 ug/l

RT: 12.299 min Scan# 3844

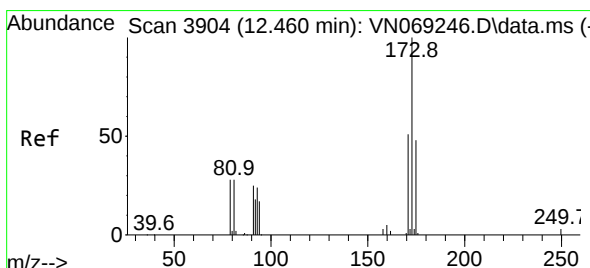
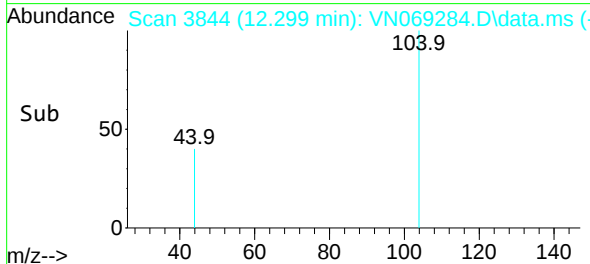
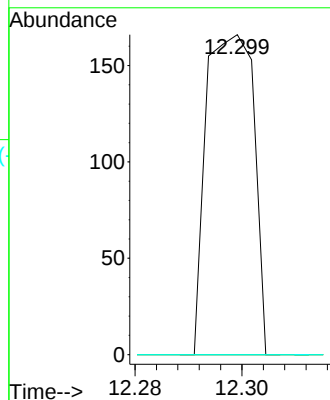
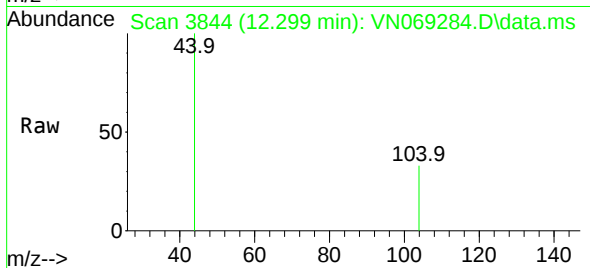
Delta R.T. 0.003 min

Lab File: VN069284.D

Acq: 29 Oct 2021 6:52

Tgt Ion:104	Resp:	102
Ion Ratio	Lower	Upper
104	100	
78	0.0	42.2 63.4#
103	0.0	44.4 66.6#

Instrument :
MSVOA_D
ClientSampled :



#71

Bromoform

Concen: 2.988 ug/l

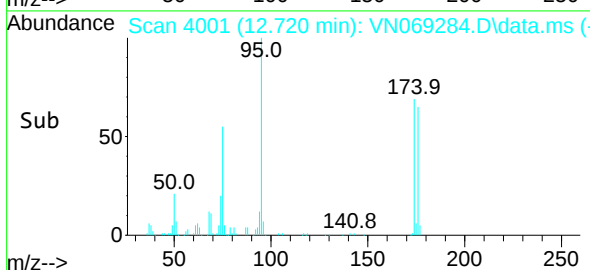
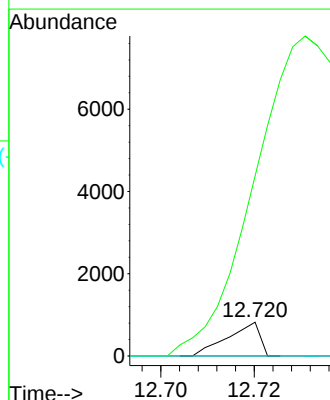
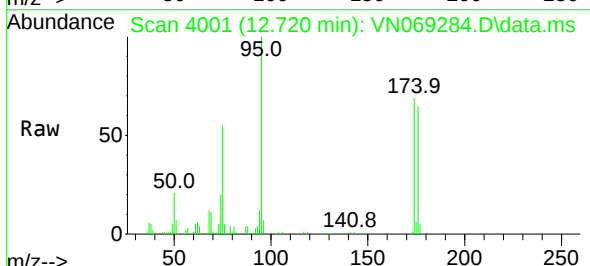
RT: 12.720 min Scan# 4001

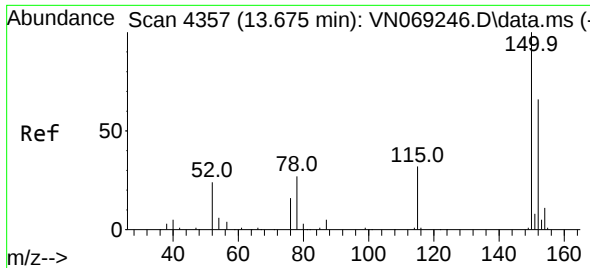
Delta R.T. 0.260 min

Lab File: VN069284.D

Acq: 29 Oct 2021 6:52

Tgt Ion:173	Resp:	396
Ion Ratio	Lower	Upper
173	100	
175	3212.9	23.8 71.5#
254	0.0	0.0 0.0

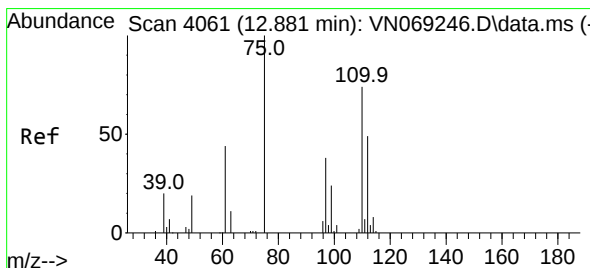
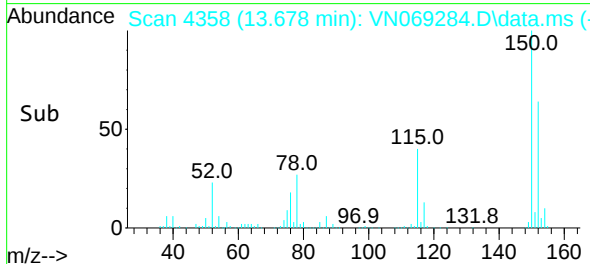
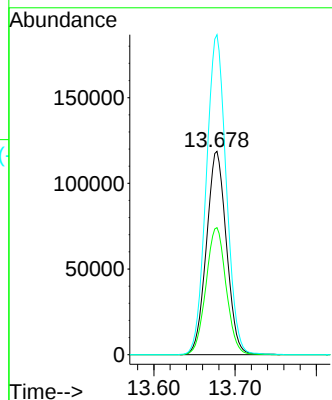
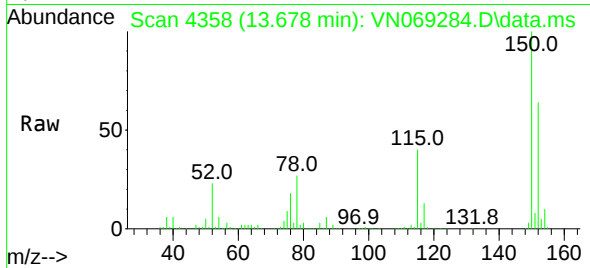




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.678 min Scan# 4358
 Delta R.T. 0.003 min
 Lab File: VN069284.D
 Acq: 29 Oct 2021 6:52

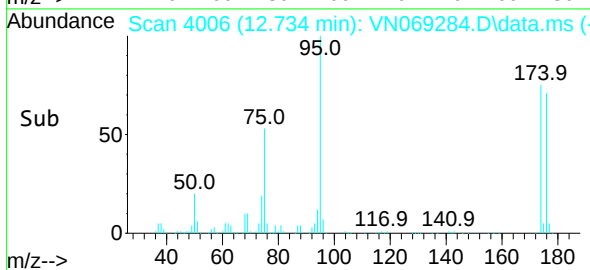
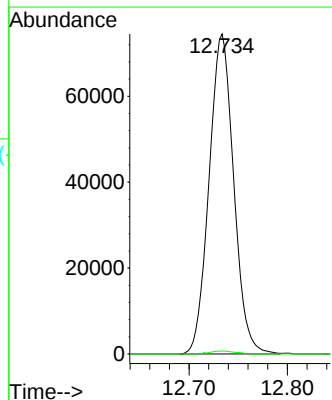
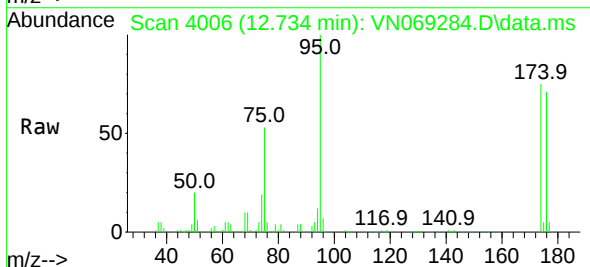
Instrument :
 MSVOA_D
 ClientSampled :

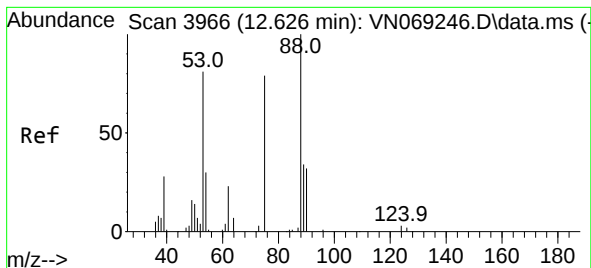
Tgt Ion:152 Resp: 202786
 Ion Ratio Lower Upper
 152 100
 115 63.0 31.4 94.3
 150 157.6 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 24.326 ug/l
 RT: 12.734 min Scan# 4006
 Delta R.T. -0.147 min
 Lab File: VN069284.D
 Acq: 29 Oct 2021 6:52

Tgt Ion: 75 Resp: 129744
 Ion Ratio Lower Upper
 75 100
 77 0.9 96.2 288.4#

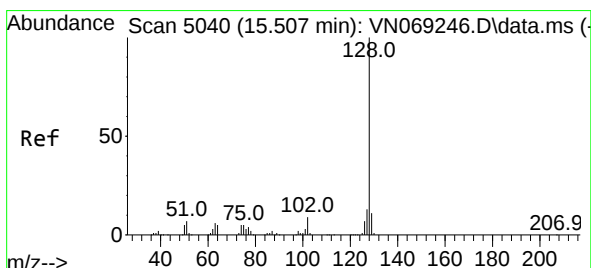
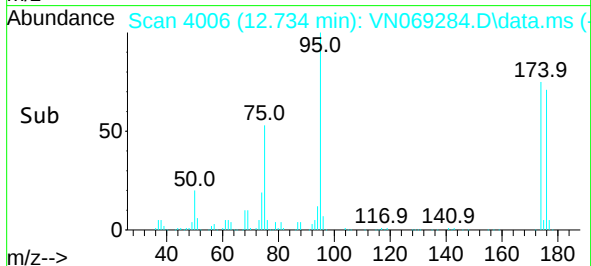
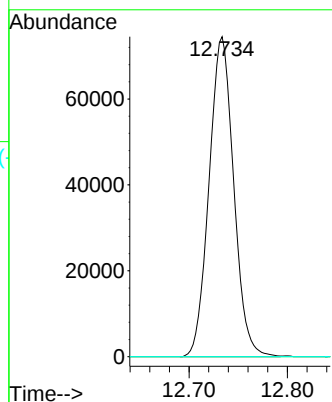
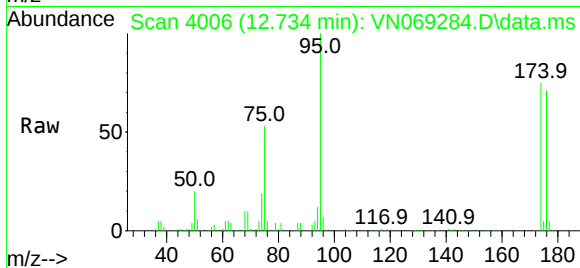




#81
trans-1,4-Dichloro-2-butene
Concen: 69.789 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 129744
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#



#95
Naphthalene
Concen: 3.335 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.002 min
Lab File: VN069284.D
Acq: 29 Oct 2021 6:52

Tgt Ion:128 Resp: 294
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.9 13.3#

