

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102121\
 Data File : VN069120.D
 Acq On : 22 Oct 2021 5:27
 Operator : JC/MD
 Sample : M4284-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 22 07:22:01 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N101221W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 13 05:44:40 2021
 Response via : Initial Calibration

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

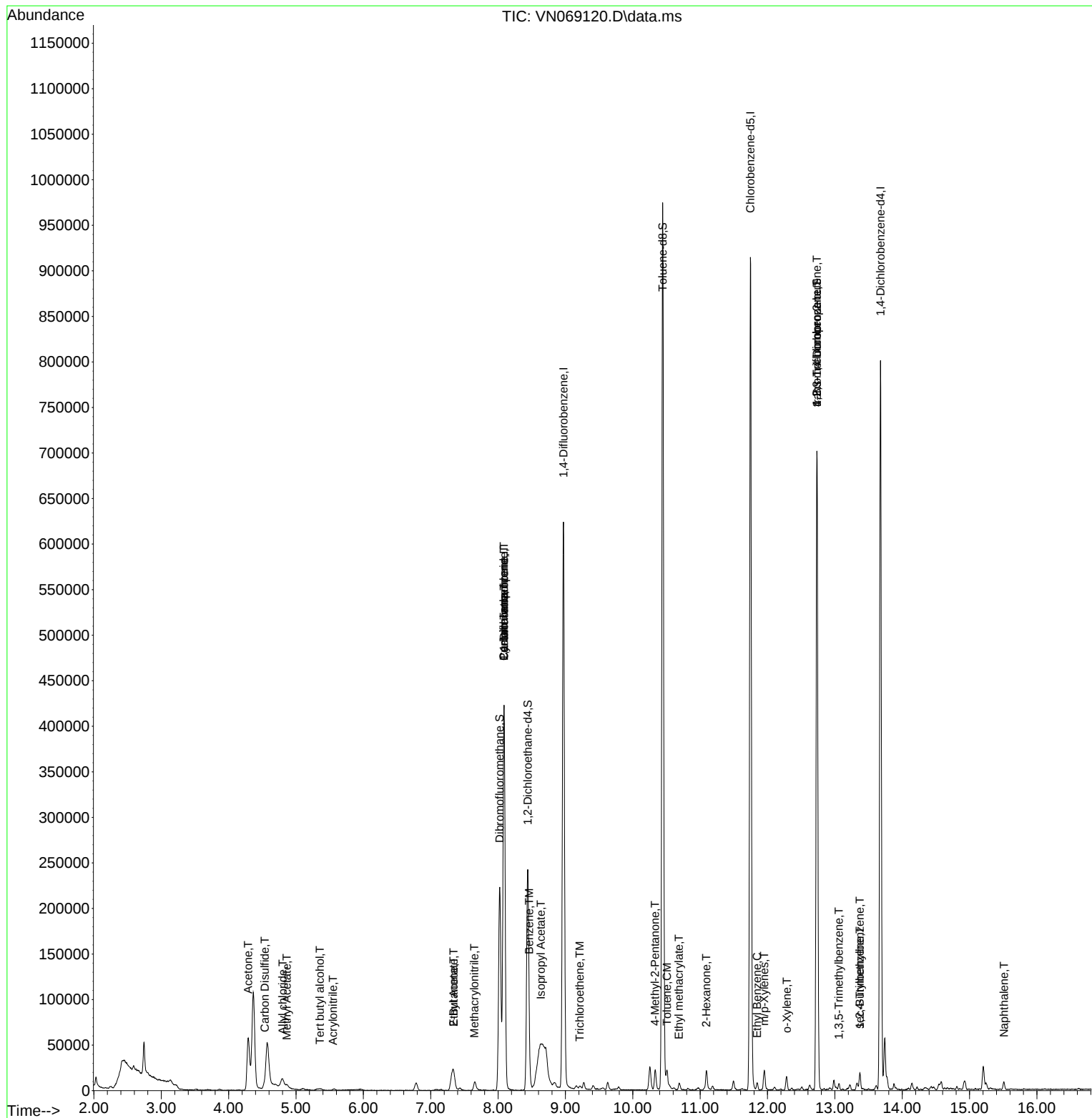
Internal Standards						
1) Pentafluorobenzene	8.088	168	321945	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	559653	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	537922	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	214154	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	207593	48.906	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	97.820%		
35) Dibromofluoromethane	8.024	113	162916	50.034	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	100.060%		
50) Toluene-d8	10.443	98	696202	53.438	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	106.880%		
62) 4-Bromofluorobenzene	12.734	95	255924	52.066	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	104.140%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.353	59	3377	4.354	ug/l #	74
14) Allyl chloride	4.800	41	20388	3.656	ug/l #	31
15) Acrylonitrile	5.549	53	526	0.303	ug/l #	18
16) Acetone	4.291	43	110313	69.640	ug/l	97
17) Carbon Disulfide	4.538	76	17958	2.127	ug/l	96
18) Methyl Acetate	4.862	43	4596	0.765	ug/l #	68
25) 2-Butanone	7.340	43	30056	12.548	ug/l	99
31) Cyclohexane	8.088	56	7666	1.162	ug/l #	7
36) 1,1-Dichloropropene	8.088	75	26032	5.446	ug/l #	50
37) Ethyl Acetate	7.340	43	30056	6.088	ug/l #	68
38) Carbon Tetrachloride	8.088	117	33626	6.405	ug/l #	15
40) Benzene	8.461	78	6050	0.416	ug/l	98
41) Methacrylonitrile	7.649	41	1273	0.512	ug/l #	34
43) Isopropyl Acetate	8.633	43	63678	7.310	ug/l #	55
44) Trichloroethene	9.212	130	894	0.245	ug/l	99
51) 4-Methyl-2-Pentanone	10.331	43	15989	3.166	ug/l	94
52) Toluene	10.508	92	7740	0.826	ug/l	100
56) Ethyl methacrylate	10.685	69	1323	0.213	ug/l	89
59) 2-Hexanone	11.090	43	5690	1.571	ug/l #	57
67) Ethyl Benzene	11.846	91	5719	0.302	ug/l	98
68) m/p-Xylenes	11.953	106	6615	0.923	ug/l	95
69) o-Xylene	12.286	106	4153	0.579	ug/l	99
76) 1,2,3-Trichloropropane	12.734	75	133947	29.396	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.061	105	3358	0.226	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.734	75	133947	70.329	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.372	105	11831	0.827	ug/l	98
85) sec-Butylbenzene	13.372	105	11831	0.661	ug/l #	57
95) Naphthalene	15.509	128	8369	4.590	ug/l #	91

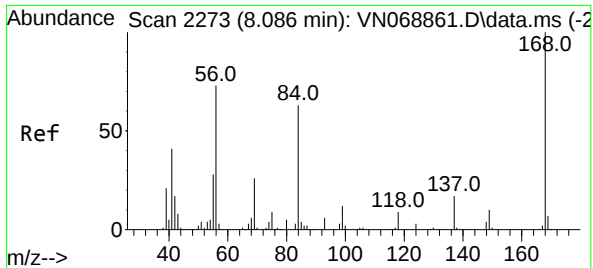
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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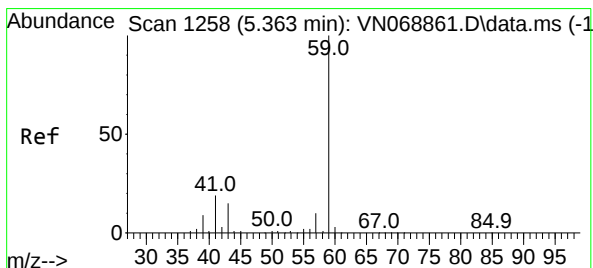
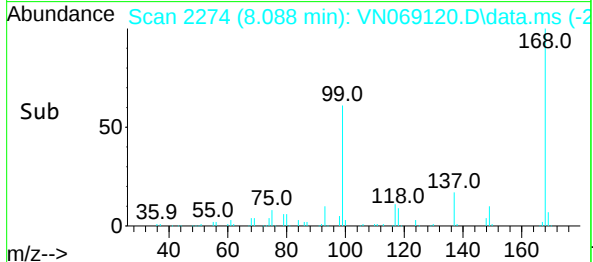
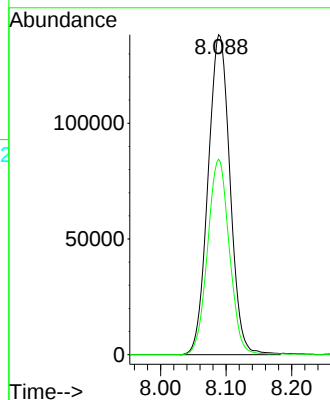
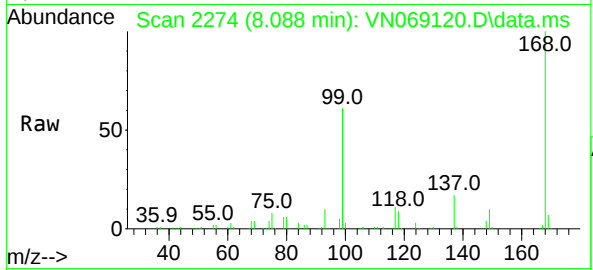




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

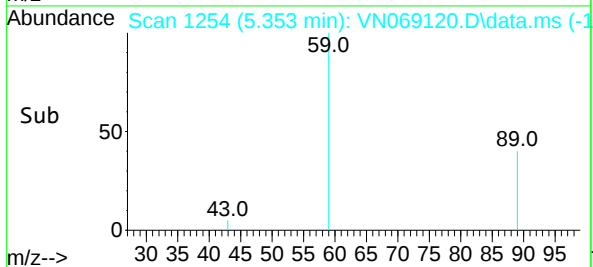
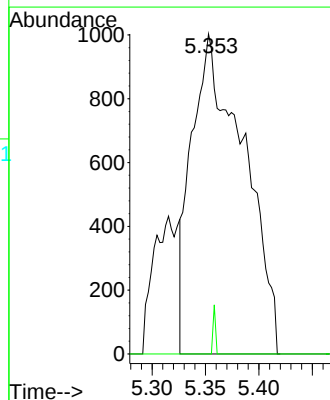
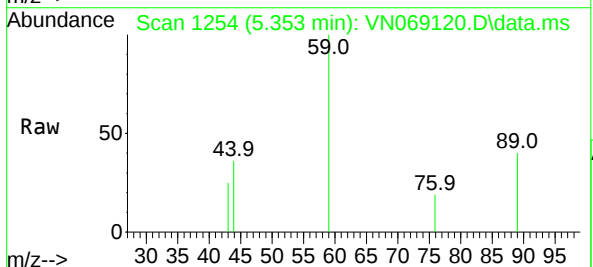
Instrument :
MSVOA_N
ClientSampled :

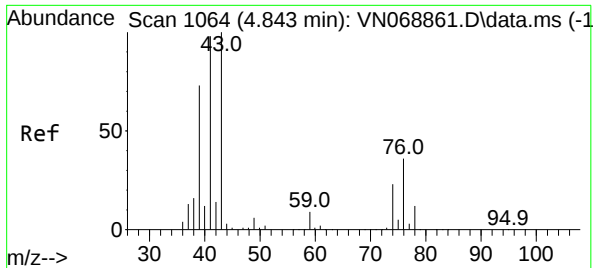
Tgt Ion:168 Resp: 321945
Ion Ratio Lower Upper
168 100
99 61.1 48.9 73.3



#11
Tert butyl alcohol
Concen: 4.354 ug/l
RT: 5.353 min Scan# 1254
Delta R.T. -0.011 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion: 59 Resp: 3377
Ion Ratio Lower Upper
59 100
57 0.7 8.3 12.5#





#14

Allyl chloride

Concen: 3.656 ug/l

RT: 4.800 min Scan# 1048

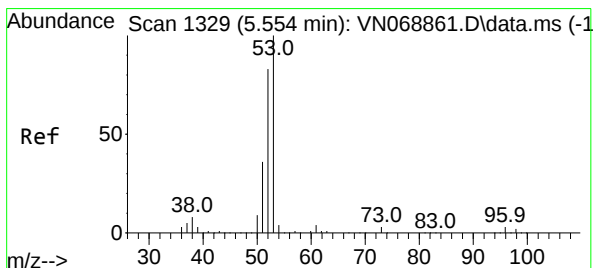
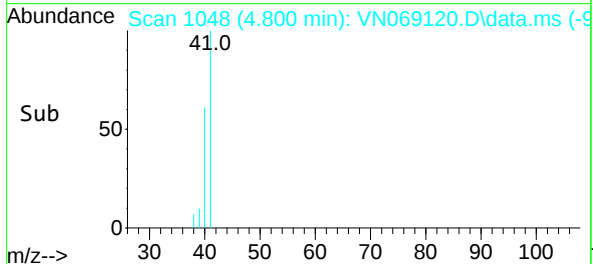
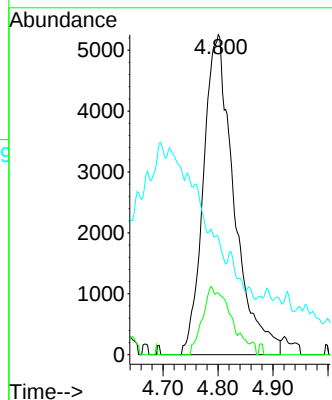
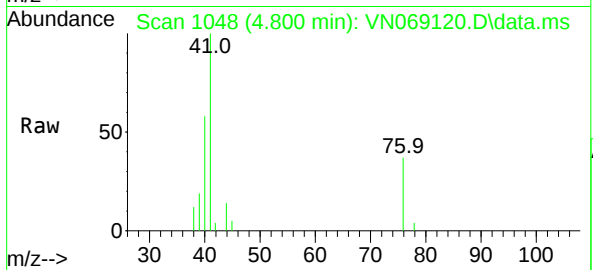
Delta R.T. -0.043 min

Lab File: VN069120.D

Acq: 22 Oct 2021 5:27

Tgt Ion:	41	Resp:	20388
Ion	Ratio	Lower	Upper
41	100		
39	8.8	55.6	83.4#
76	0.0	26.4	39.6#

Instrument :
MSVOA_N
ClientSampled :



#15

Acrylonitrile

Concen: 0.303 ug/l

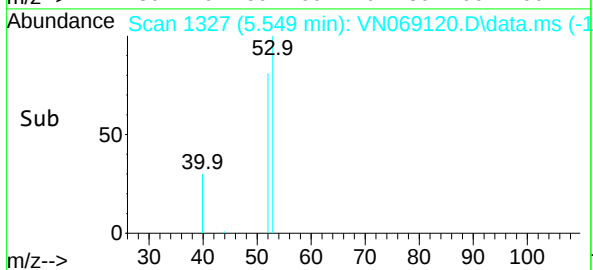
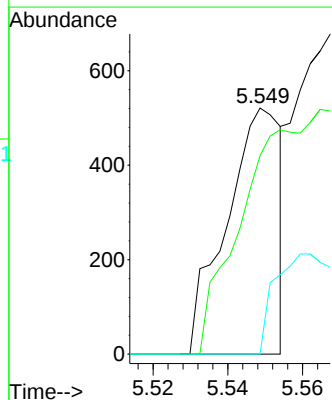
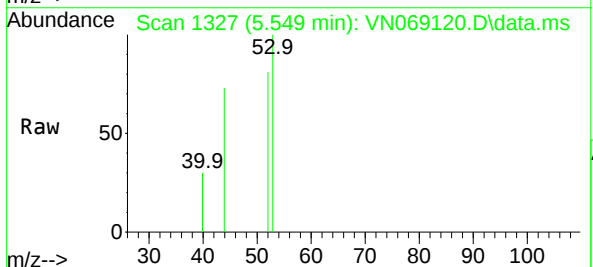
RT: 5.549 min Scan# 1327

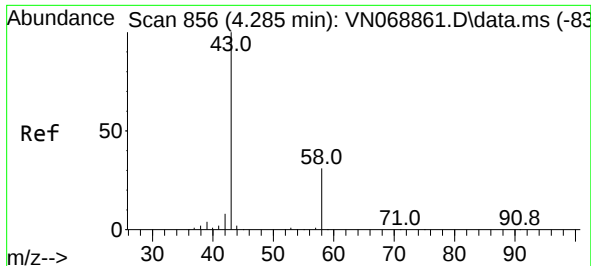
Delta R.T. -0.005 min

Lab File: VN069120.D

Acq: 22 Oct 2021 5:27

Tgt Ion:	53	Resp:	526
Ion	Ratio	Lower	Upper
53	100		
52	0.0	65.7	98.5#
51	0.0	28.9	43.3#

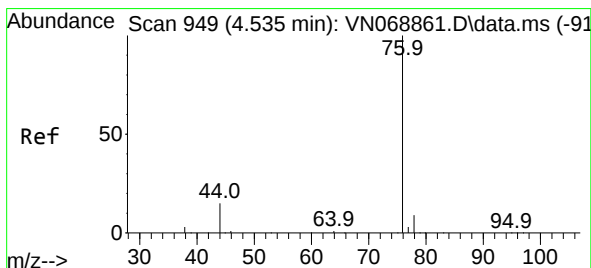
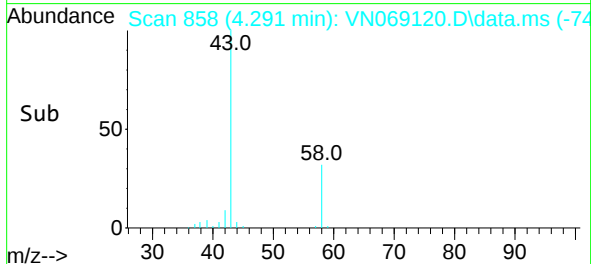
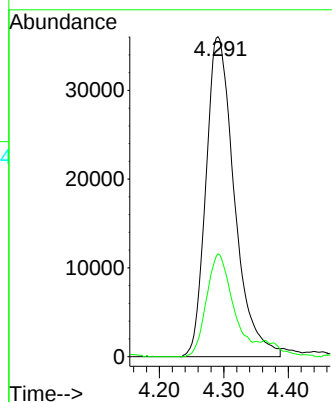
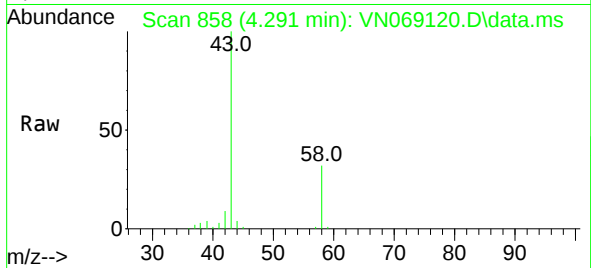




#16
Acetone
Concen: 69.640 ug/l
RT: 4.291 min Scan# 858
Delta R.T. 0.006 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

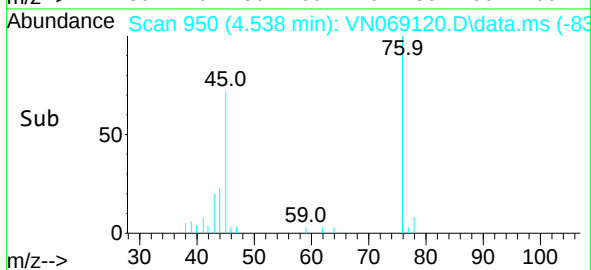
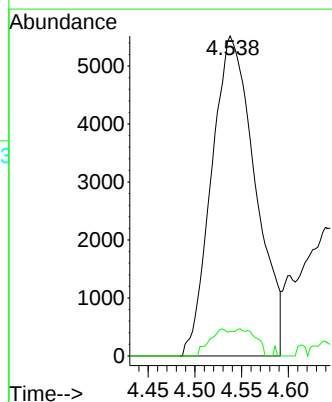
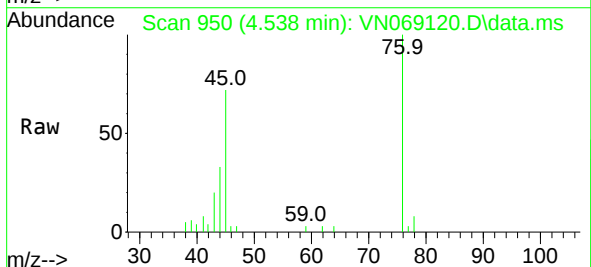
Instrument :
MSVOA_N
ClientSampled :

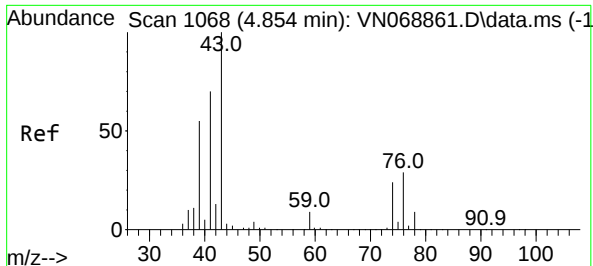
Tgt Ion: 43 Resp: 110313
Ion Ratio Lower Upper
43 100
58 32.1 24.5 36.7



#17
Carbon Disulfide
Concen: 2.127 ug/l
RT: 4.538 min Scan# 950
Delta R.T. 0.003 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion: 76 Resp: 17958
Ion Ratio Lower Upper
76 100
78 7.6 7.2 10.8





#18

Methyl Acetate

Concen: 0.765 ug/l

RT: 4.862 min Scan# 1071

Delta R.T. 0.008 min

Lab File: VN069120.D

Acq: 22 Oct 2021 5:27

Tgt Ion: 43 Resp: 4596

Ion Ratio Lower Upper

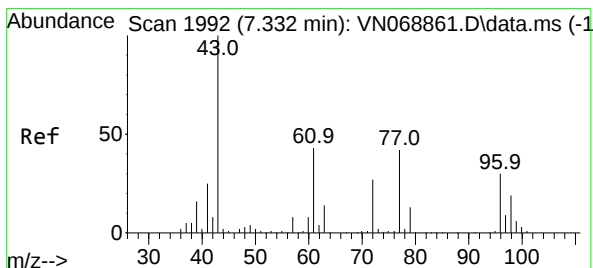
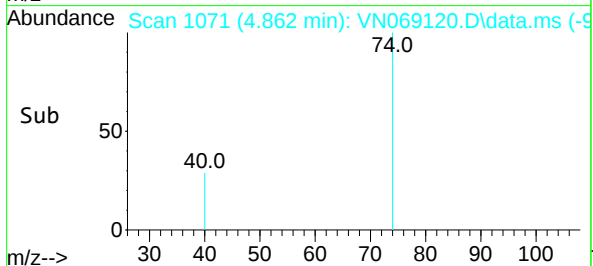
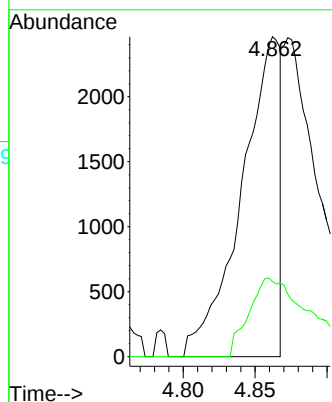
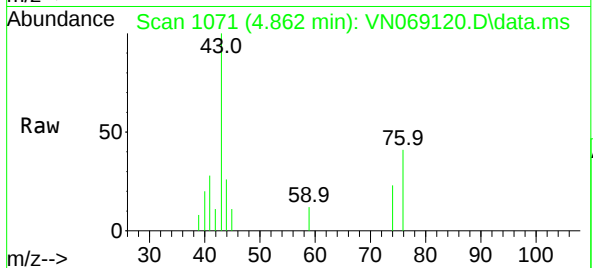
43 100

74 39.3 18.9 28.3#

Instrument :

MSVOA_N

ClientSampled :



#25

2-Butanone

Concen: 12.548 ug/l

RT: 7.340 min Scan# 1995

Delta R.T. 0.008 min

Lab File: VN069120.D

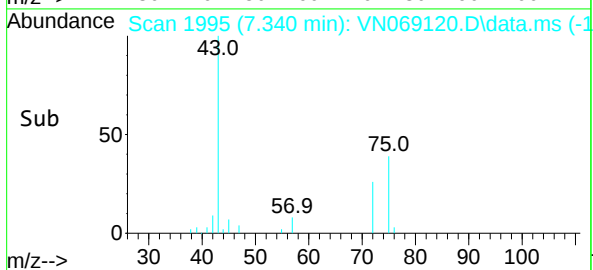
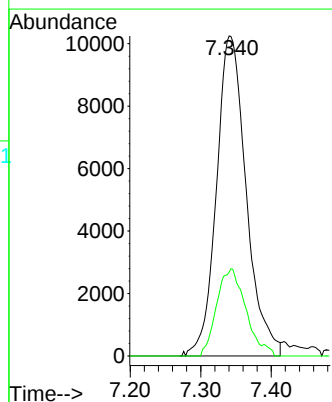
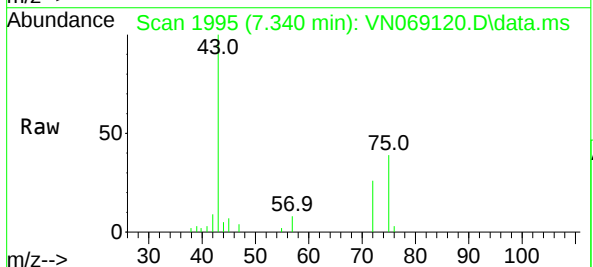
Acq: 22 Oct 2021 5:27

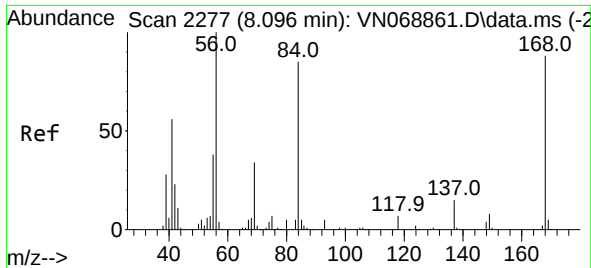
Tgt Ion: 43 Resp: 30056

Ion Ratio Lower Upper

43 100

72 26.2 21.2 31.8

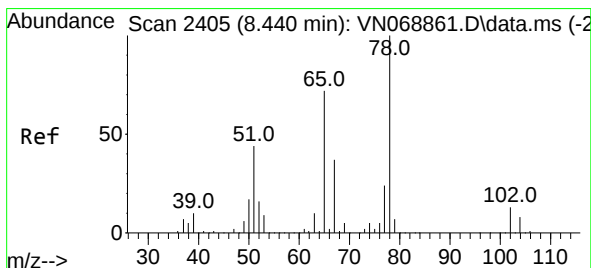
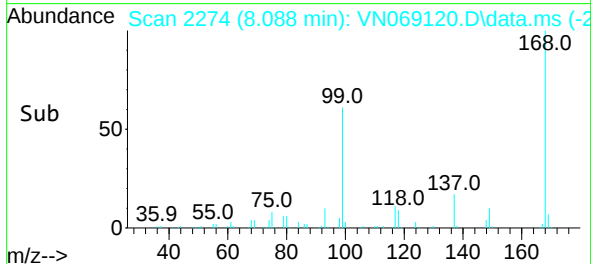
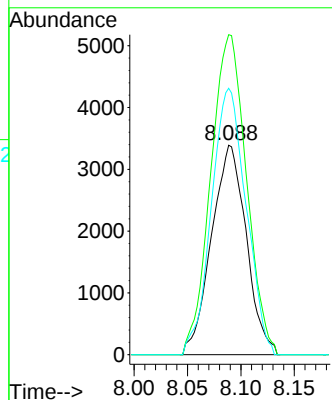
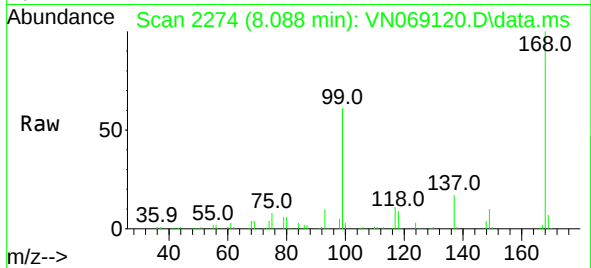




#31
Cyclohexane
Concen: 1.162 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.008 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

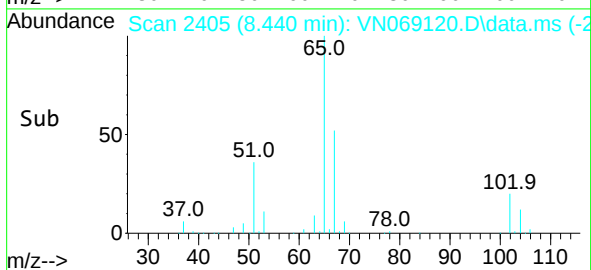
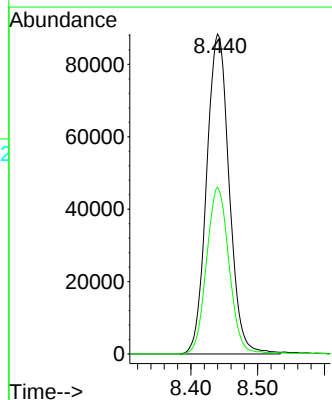
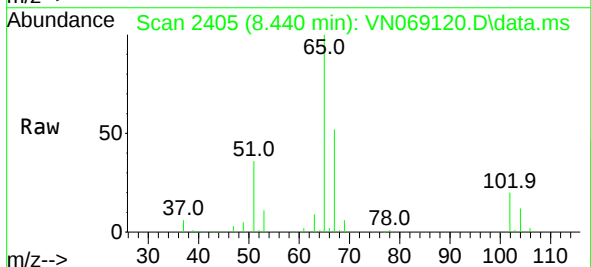
Instrument :
MSVOA_N
ClientSampled :

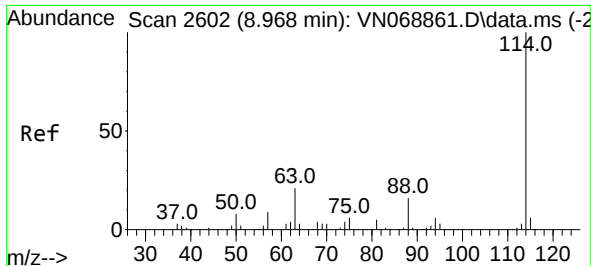
Tgt Ion: 56 Resp: 7666
Ion Ratio Lower Upper
56 100
69 152.8 26.9 40.3#
84 127.2 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 48.906 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion: 65 Resp: 207593
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.8

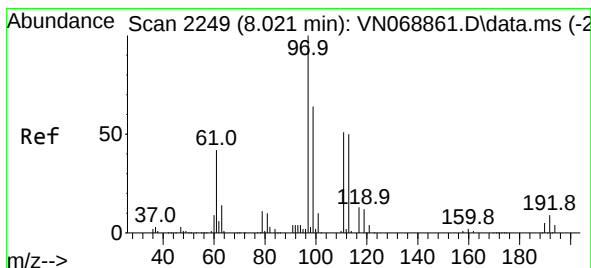
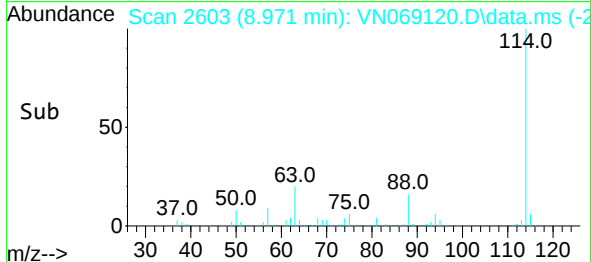
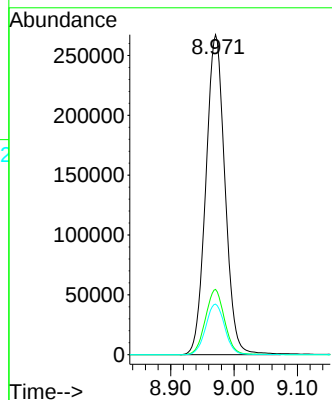
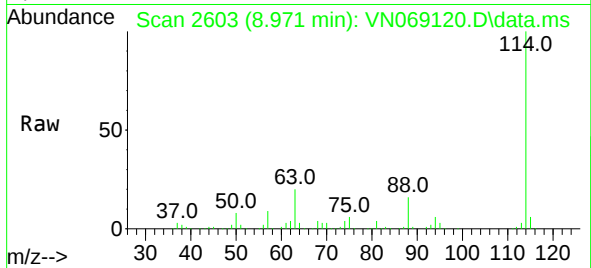




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

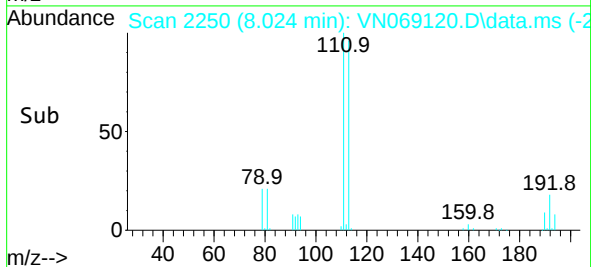
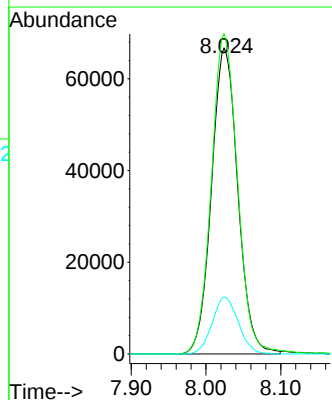
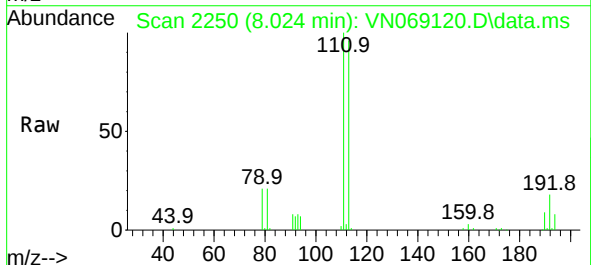
Instrument :
MSVOA_N
ClientSampled :

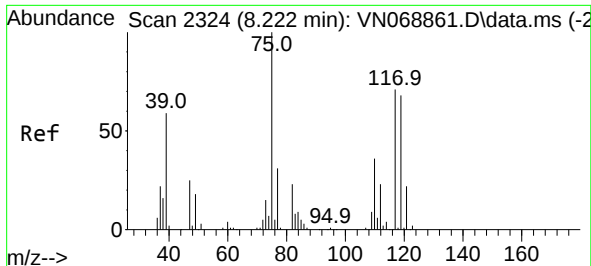
Tgt Ion:114 Resp: 559653
Ion Ratio Lower Upper
114 100
63 20.4 0.0 42.6
88 15.8 0.0 32.0



#35
Dibromofluoromethane
Concen: 50.034 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion:113 Resp: 162916
Ion Ratio Lower Upper
113 100
111 104.8 83.2 124.8
192 18.5 15.0 22.4

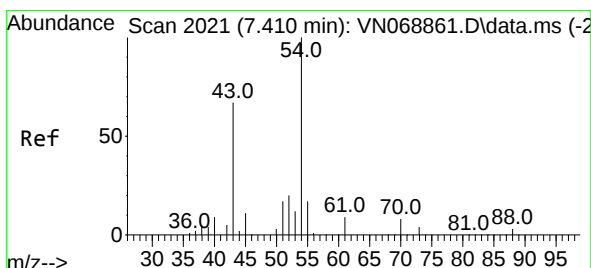
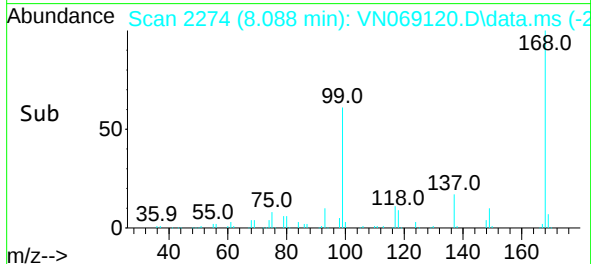
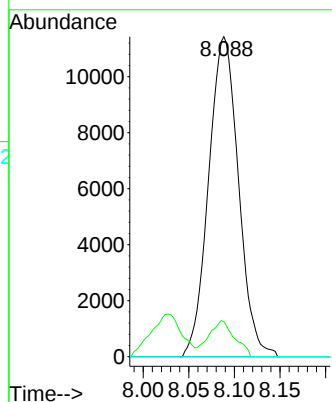
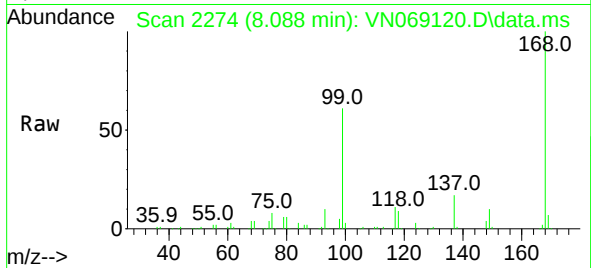




#36
1,1-Dichloropropene
Concen: 5.446 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

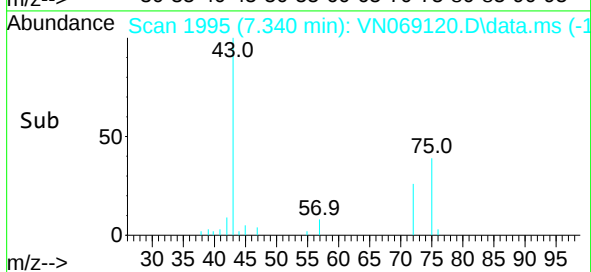
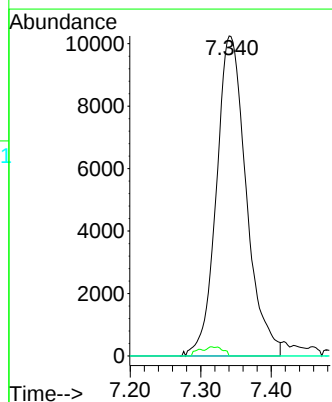
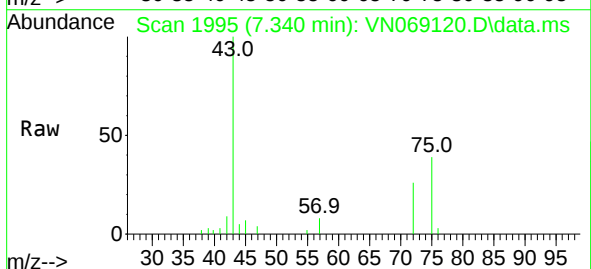
Instrument :
MSVOA_N
ClientSampleId :

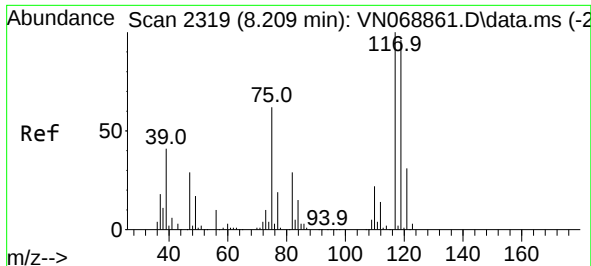
Tgt Ion: 75 Resp: 26032
Ion Ratio Lower Upper
75 100
110 9.7 17.9 53.8#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 6.088 ug/l
RT: 7.340 min Scan# 1995
Delta R.T. -0.070 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

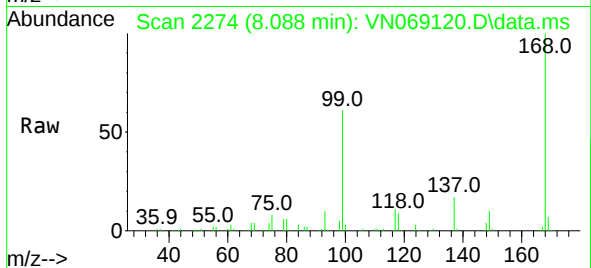
Tgt Ion: 43 Resp: 30056
Ion Ratio Lower Upper
43 100
61 0.0 11.2 16.8#
70 0.0 8.4 12.6#



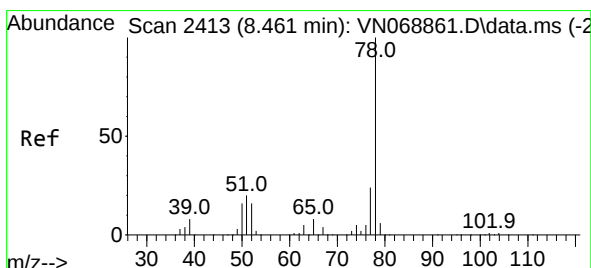
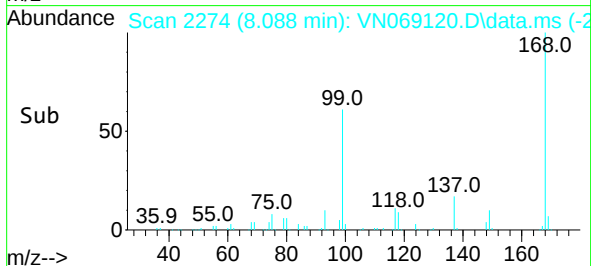
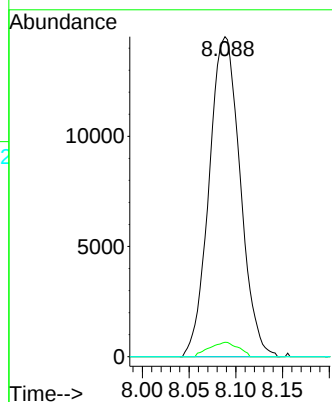


#38
Carbon Tetrachloride
Concen: 6.405 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.121 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Instrument :
MSVOA_N
ClientSampled :

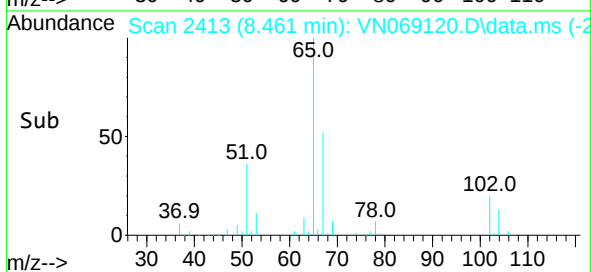
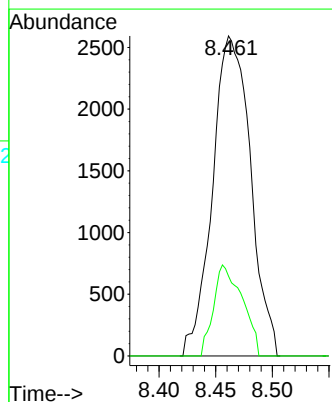
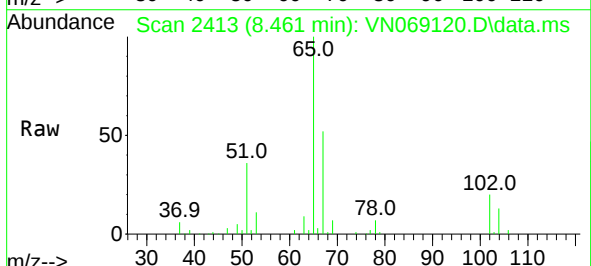


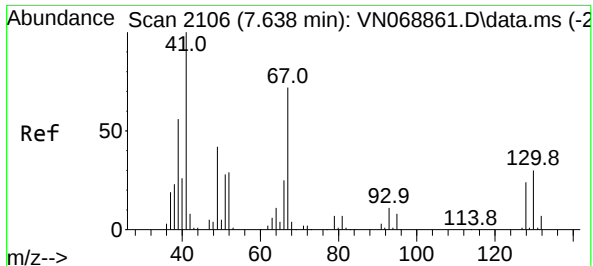
Tgt Ion:117 Resp: 33626
Ion Ratio Lower Upper
117 100
119 4.5 76.9 115.3#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 0.416 ug/l
RT: 8.461 min Scan# 2413
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion: 78 Resp: 6050
Ion Ratio Lower Upper
78 100
77 25.0 19.1 28.7



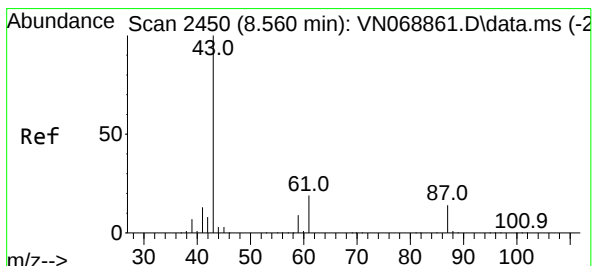
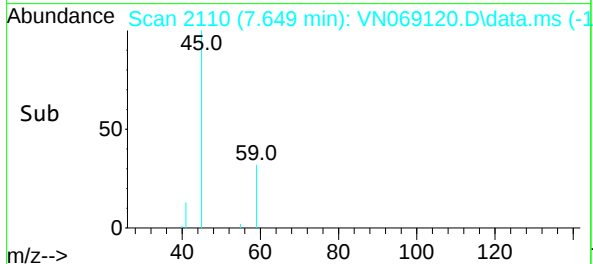
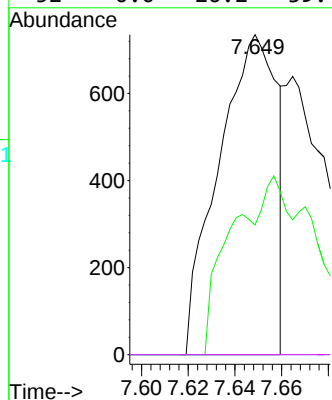
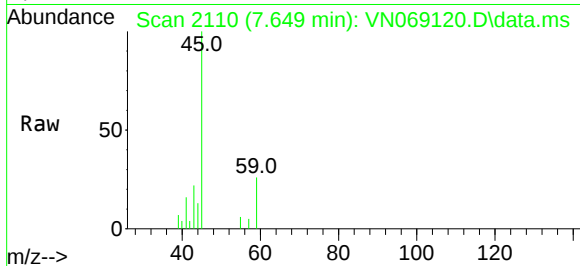


#41
Methacrylonitrile
Concen: 0.512 ug/l
RT: 7.649 min Scan# 2110
Delta R.T. 0.011 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Instrument :
MSVOA_N
ClientSampled :

Tgt Ion: 41 Resp: 1273

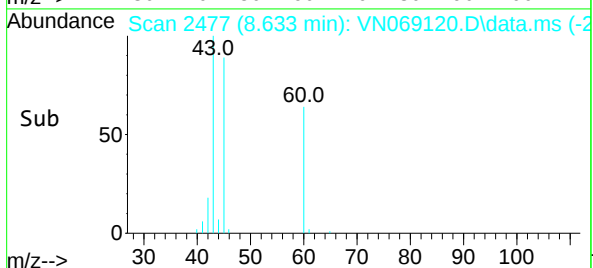
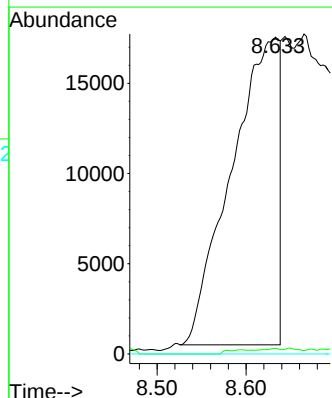
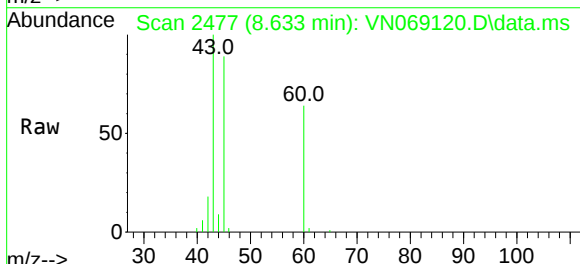
Ion	Ratio	Lower	Upper
41	100		
39	27.7	44.9	67.3#
67	0.0	62.6	93.8#
52	0.0	26.2	39.4#

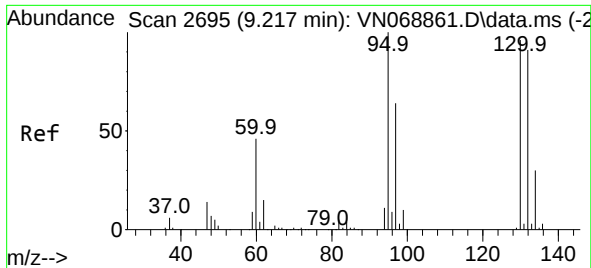


#43
Isopropyl Acetate
Concen: 7.310 ug/l
RT: 8.633 min Scan# 2477
Delta R.T. 0.073 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion: 43 Resp: 63678

Ion	Ratio	Lower	Upper
43	100		
61	0.0	20.4	30.6#
87	0.0	10.7	16.1#

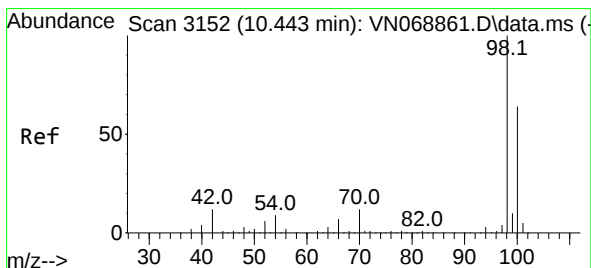
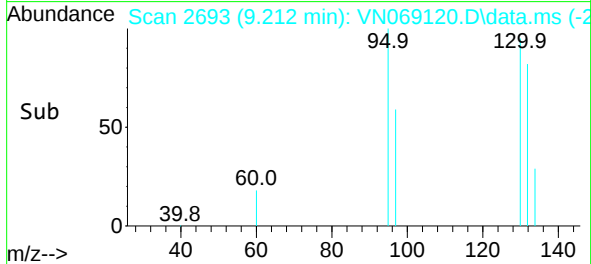
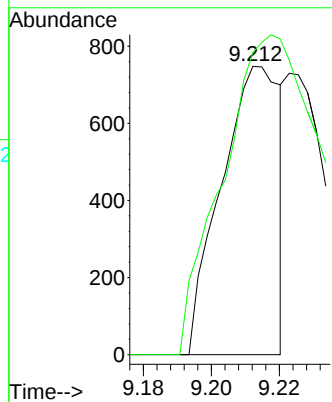
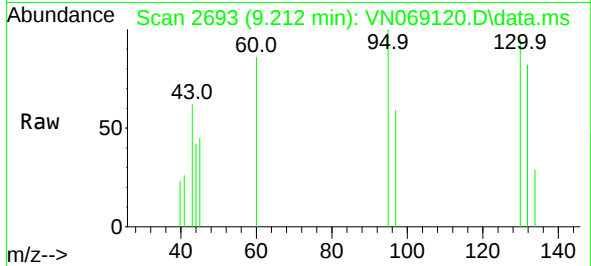




#44
Trichloroethene
Concen: 0.245 ug/l
RT: 9.212 min Scan# 2693
Delta R.T. -0.005 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

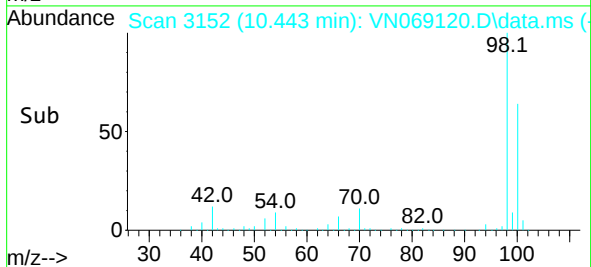
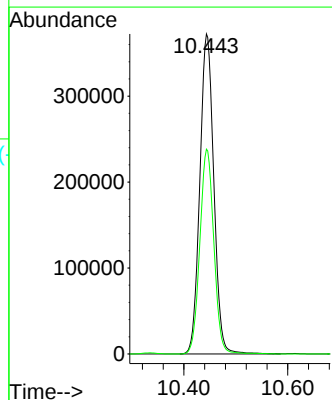
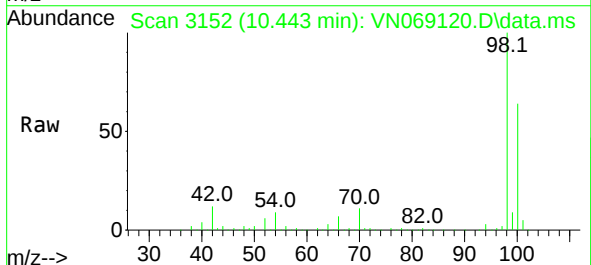
Instrument :
MSVOA_N
ClientSampled :

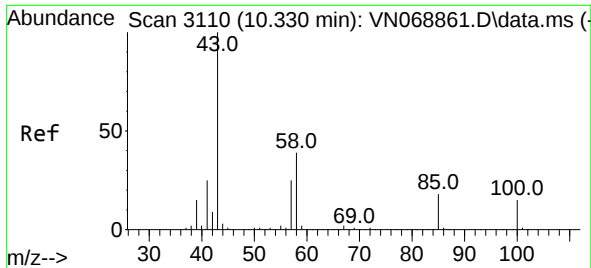
Tgt Ion:130 Resp: 894
Ion Ratio Lower Upper
130 100
95 104.8 0.0 208.0



#50
Toluene-d8
Concen: 53.438 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion: 98 Resp: 696202
Ion Ratio Lower Upper
98 100
100 64.0 51.5 77.3

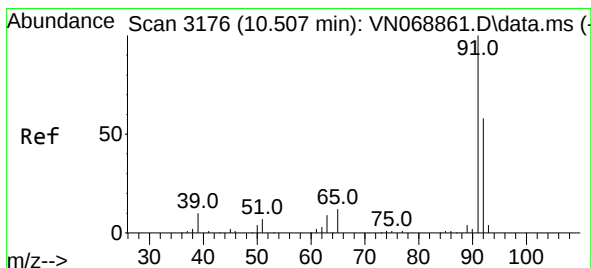
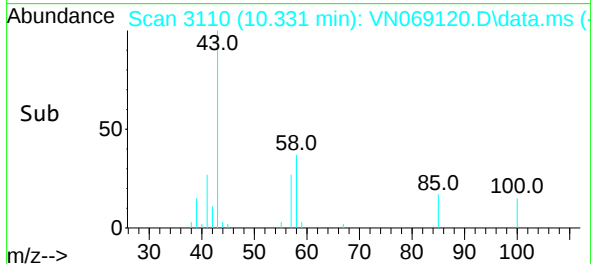
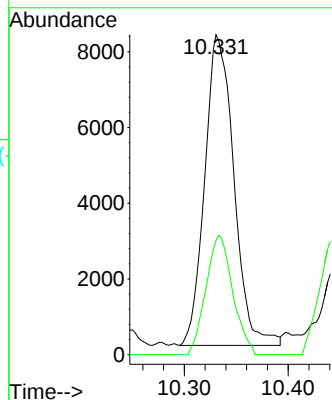
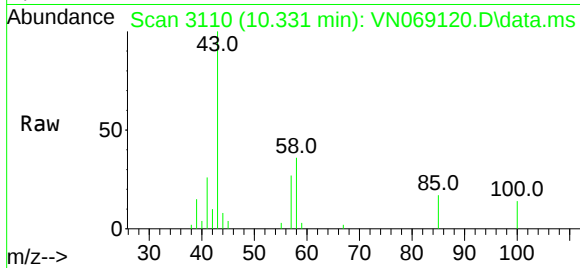




#51
4-Methyl-2-Pentanone
Concen: 3.166 ug/l
RT: 10.331 min Scan# 3110
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

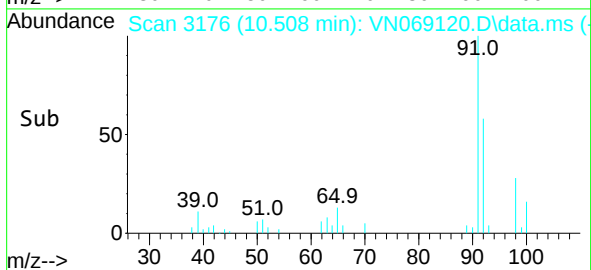
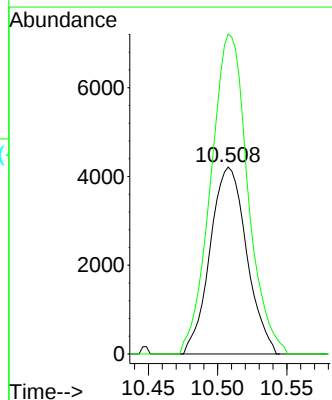
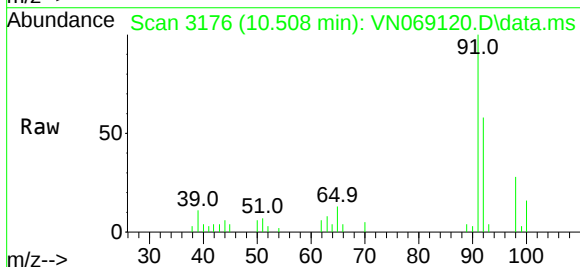
Instrument :
MSVOA_N
ClientSampled :

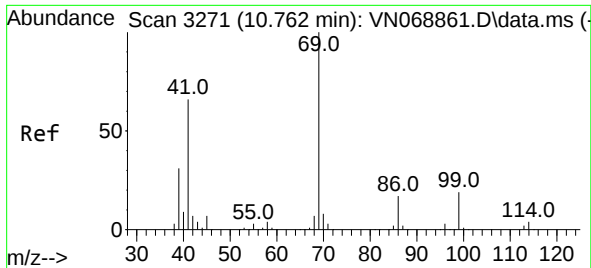
Tgt Ion: 43 Resp: 15989
Ion Ratio Lower Upper
43 100
58 35.2 31.0 46.4



#52
Toluene
Concen: 0.826 ug/l
RT: 10.508 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion: 92 Resp: 7740
Ion Ratio Lower Upper
92 100
91 173.4 138.5 207.7

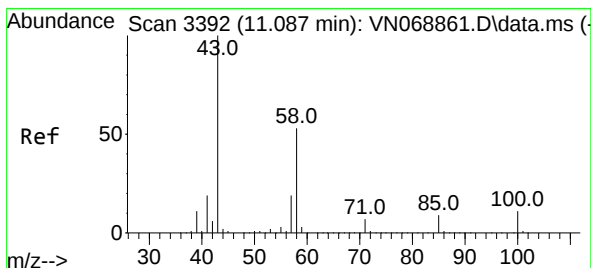
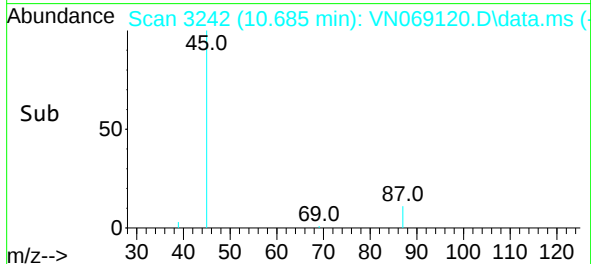
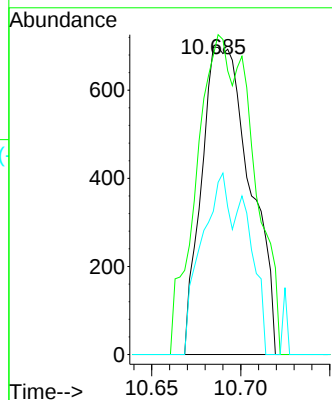
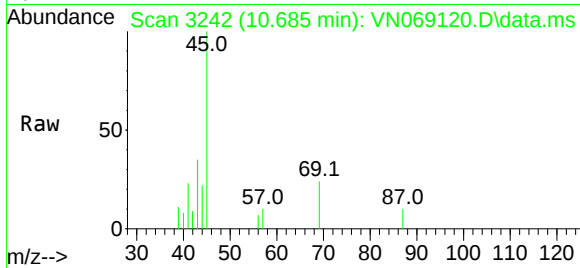




#56
Ethyl methacrylate
Concen: 0.213 ug/l
RT: 10.685 min Scan# 3242
Delta R.T. -0.078 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

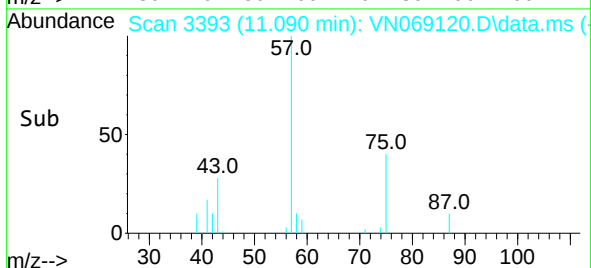
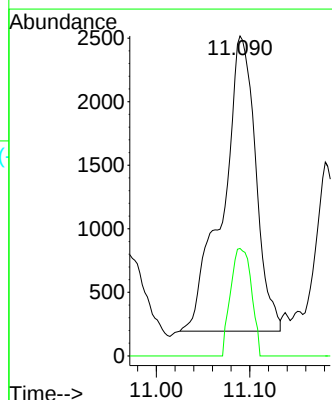
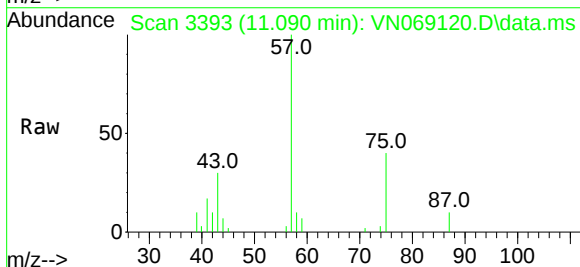
Instrument :
MSVOA_N
ClientSampled :

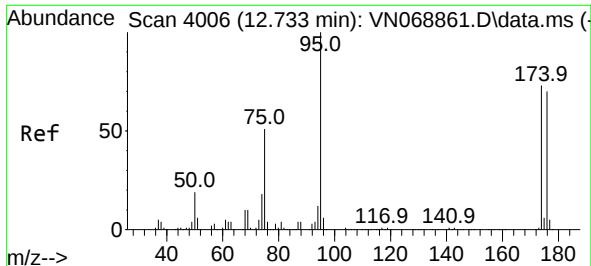
Tgt Ion:	69	Resp:	1323
Ion	Ratio	Lower	Upper
69	100		
41	75.6	53.3	79.9
39	35.5	33.3	49.9



#59
2-Hexanone
Concen: 1.571 ug/l
RT: 11.090 min Scan# 3393
Delta R.T. 0.003 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion:	43	Resp:	5690
Ion	Ratio	Lower	Upper
43	100		
58	22.9	26.9	80.7#

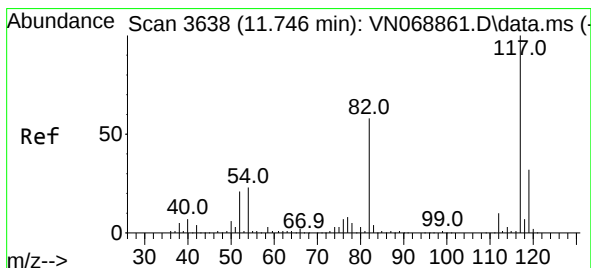
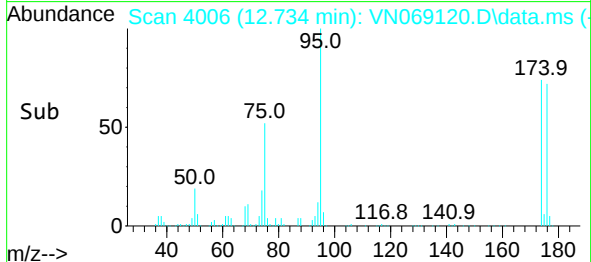
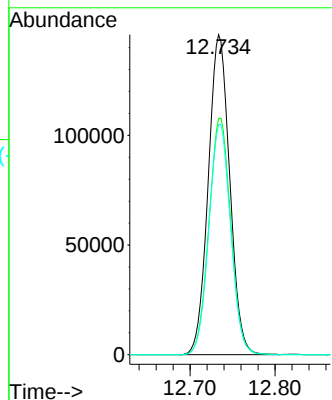
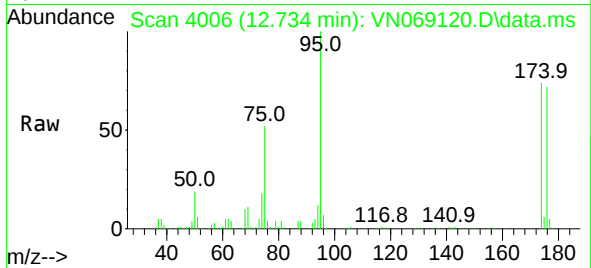




#62
4-Bromofluorobenzene
Concen: 52.066 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

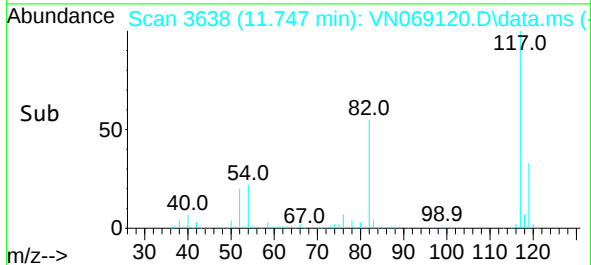
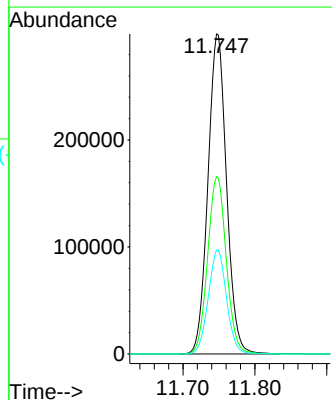
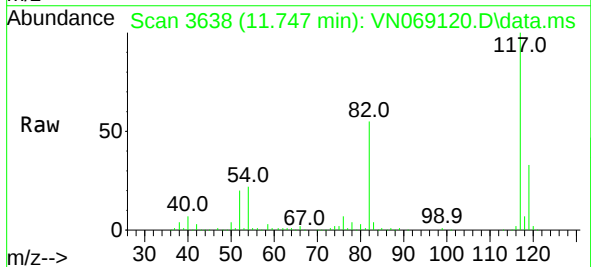
Instrument :
MSVOA_N
ClientSampleId :

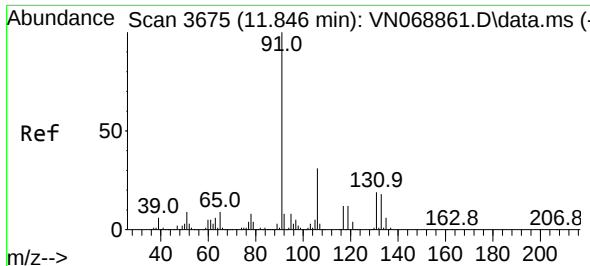
Tgt Ion: 95 Resp: 255924
Ion Ratio Lower Upper
95 100
174 75.4 0.0 144.8
176 72.8 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion: 117 Resp: 537922
Ion Ratio Lower Upper
117 100
82 55.4 46.4 69.6
119 32.5 26.0 39.0

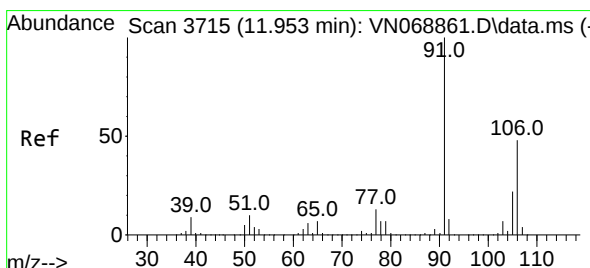
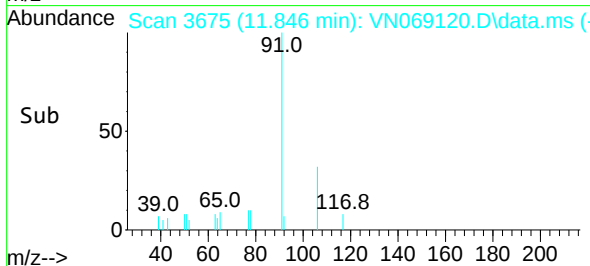
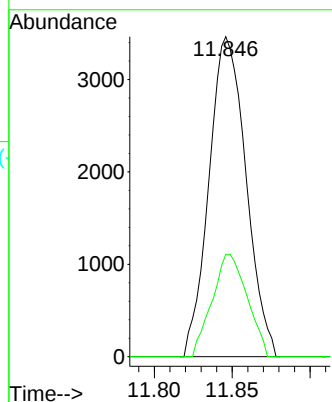
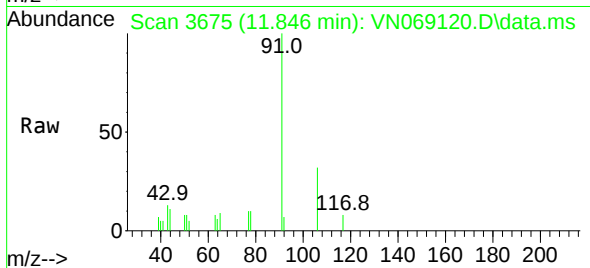




#67
Ethyl Benzene
Concen: 0.302 ug/l
RT: 11.846 min Scan# 3675
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

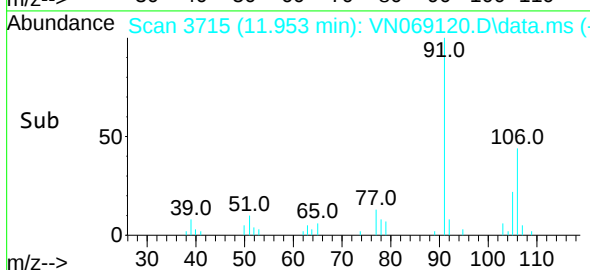
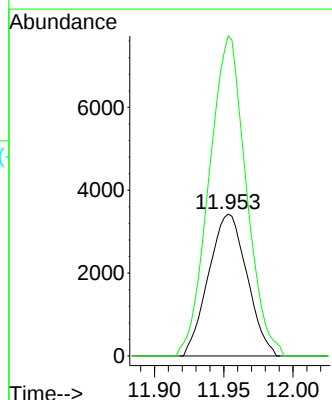
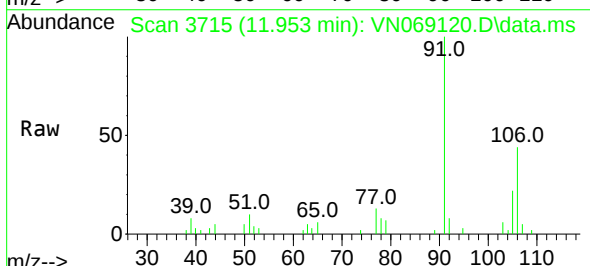
Instrument :
MSVOA_N
ClientSampleId :

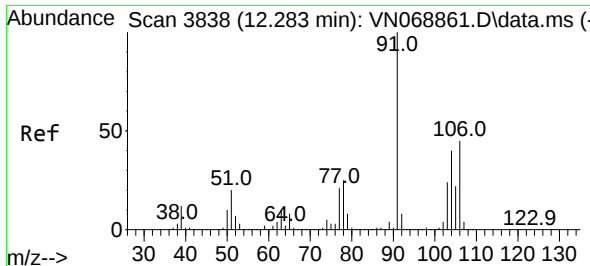
Tgt Ion: 91 Resp: 5719
Ion Ratio Lower Upper
91 100
106 31.9 24.8 37.2



#68
m/p-Xylenes
Concen: 0.923 ug/l
RT: 11.953 min Scan# 3715
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion: 106 Resp: 6615
Ion Ratio Lower Upper
106 100
91 216.8 166.8 250.2

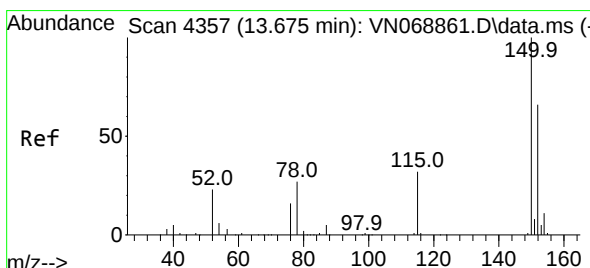
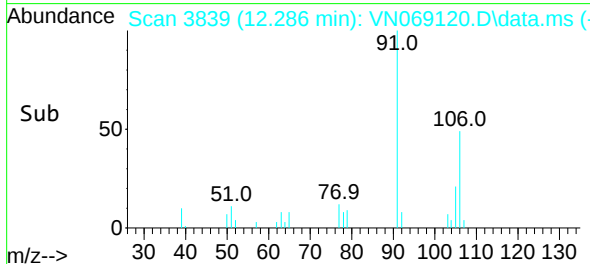
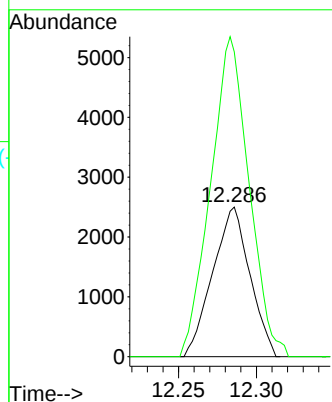
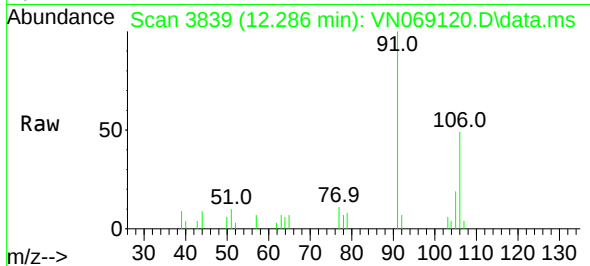




#69
o-Xylene
Concen: 0.579 ug/l
RT: 12.286 min Scan# 3839
Delta R.T. 0.003 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

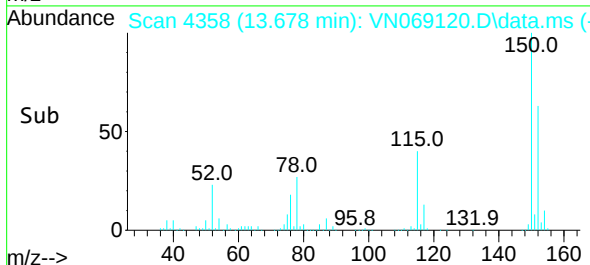
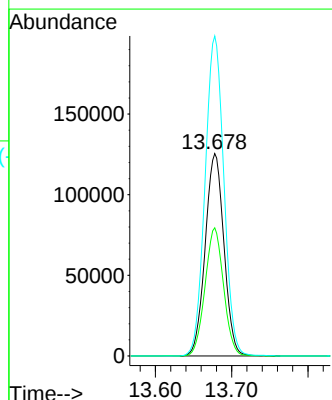
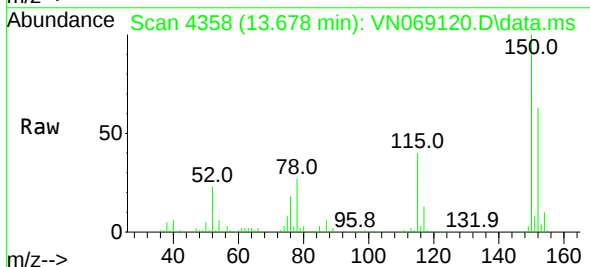
Instrument :
MSVOA_N
ClientSampleId :

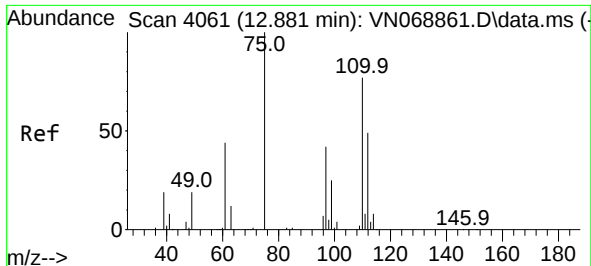
Tgt Ion:106 Resp: 4153
Ion Ratio Lower Upper
106 100
91 220.4 109.6 328.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

Tgt Ion:152 Resp: 214154
Ion Ratio Lower Upper
152 100
115 62.5 31.4 94.3
150 158.6 0.0 351.0

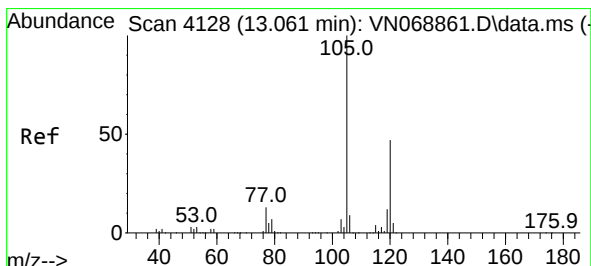
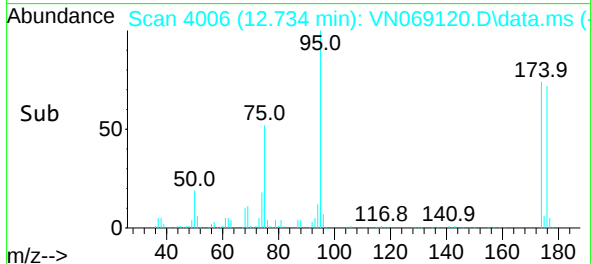
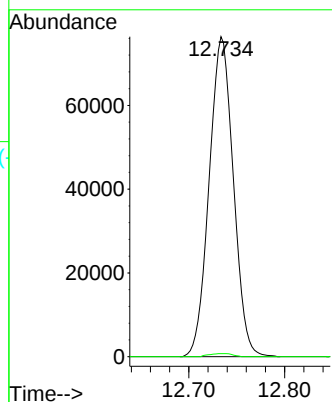
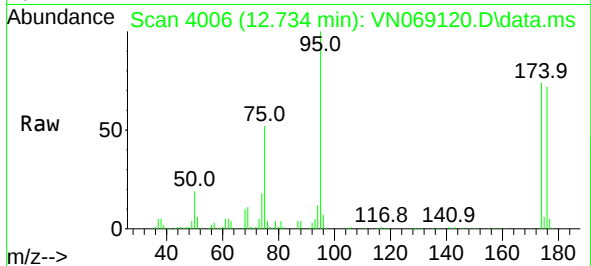




#76
1,2,3-Trichloropropane
Concen: 29.396 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

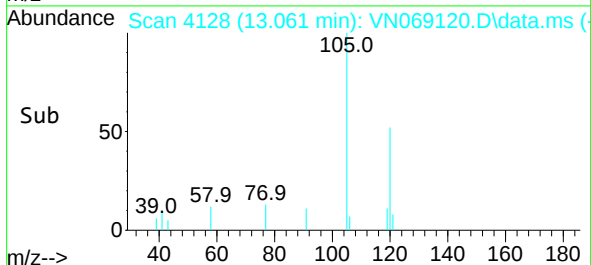
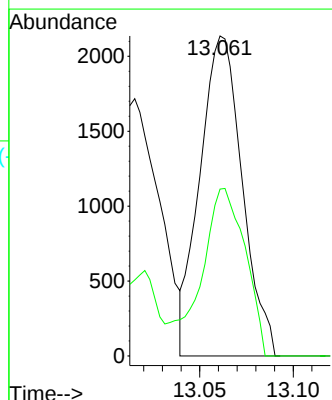
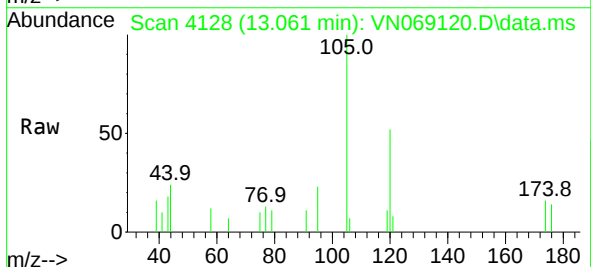
Instrument :
MSVOA_N
ClientSampled :

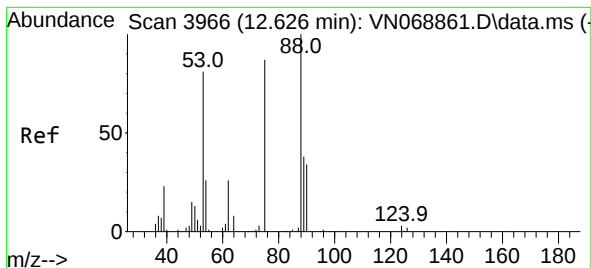
Tgt Ion: 75 Resp: 133947
Ion Ratio Lower Upper
75 100
77 0.9 96.2 288.4#



#80
1,3,5-Trimethylbenzene
Concen: 0.226 ug/l
RT: 13.061 min Scan# 4128
Delta R.T. 0.000 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

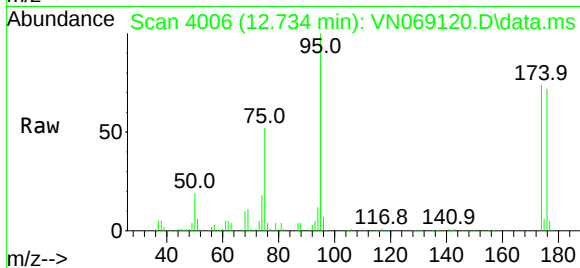
Tgt Ion: 105 Resp: 3358
Ion Ratio Lower Upper
105 100
120 51.8 23.4 70.2



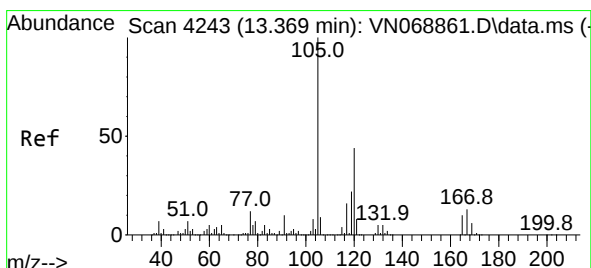
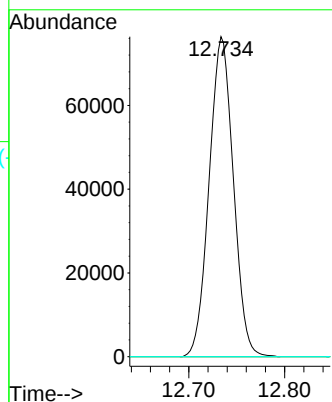
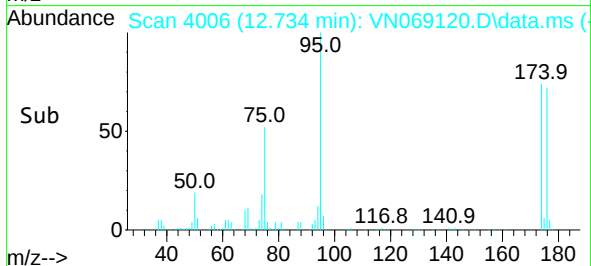


#81
trans-1,4-Dichloro-2-butene
Concen: 70.329 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27

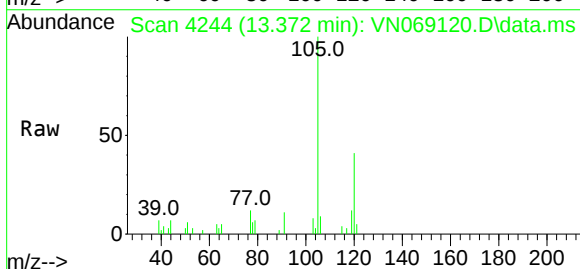
Instrument :
MSVOA_N
ClientSampleId :



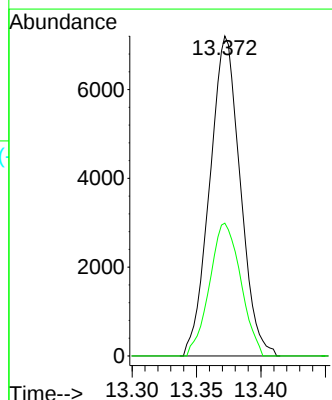
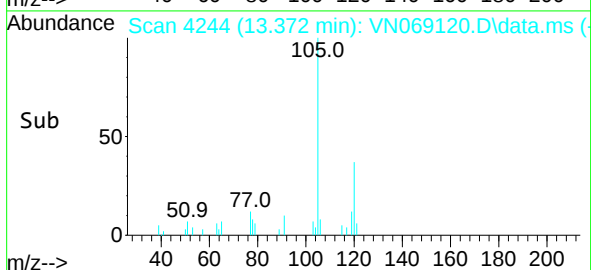
Tgt Ion: 75 Resp: 133947
Ion Ratio Lower Upper
75 100
53 0.0 75.4 113.2#
89 0.0 36.9 55.3#

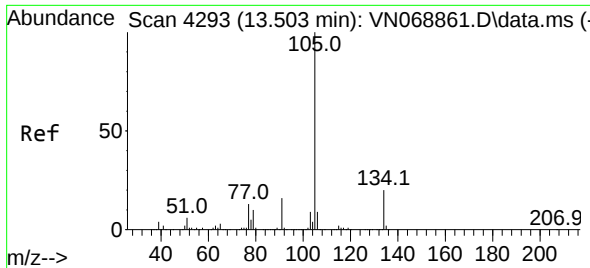


#84
1,2,4-Trimethylbenzene
Concen: 0.827 ug/l
RT: 13.372 min Scan# 4244
Delta R.T. 0.003 min
Lab File: VN069120.D
Acq: 22 Oct 2021 5:27



Tgt Ion: 105 Resp: 11831
Ion Ratio Lower Upper
105 100
120 42.5 21.9 65.5

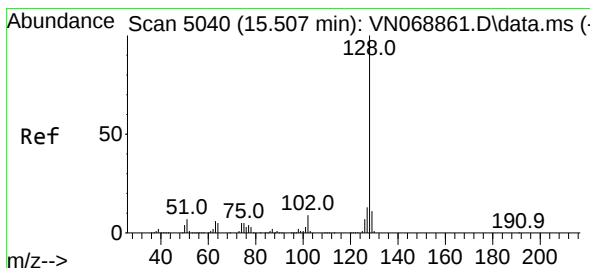
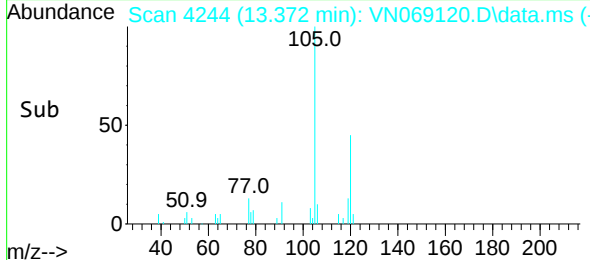
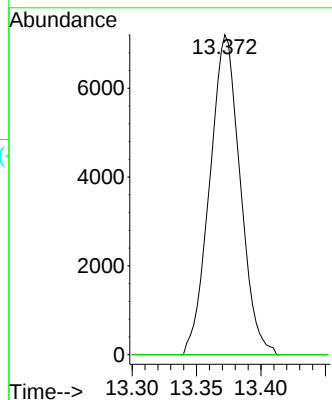
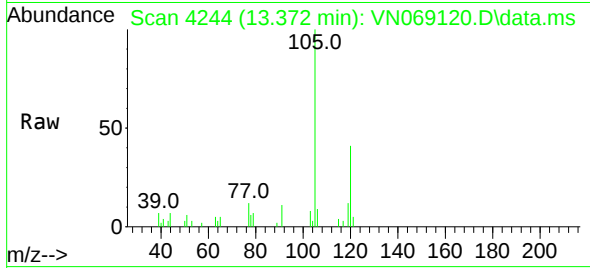




#85
 sec-Butylbenzene
 Concen: 0.661 ug/l
 RT: 13.372 min Scan# 4244
 Delta R.T. -0.131 min
 Lab File: VN069120.D
 Acq: 22 Oct 2021 5:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion:105 Resp: 11831
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.8 29.4#



#95
 Naphthalene
 Concen: 4.590 ug/l
 RT: 15.509 min Scan# 5041
 Delta R.T. 0.002 min
 Lab File: VN069120.D
 Acq: 22 Oct 2021 5:27

Tgt Ion:128 Resp: 8369
 Ion Ratio Lower Upper
 128 100
 127 12.2 10.5 15.7
 129 4.4 8.9 13.3#

