

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD080921\
 Data File : VD070012.D
 Acq On : 09 Aug 2021 22:42
 Operator : VA/SY
 Sample : M3318-03
 Misc : 5.08G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 10 07:08:36 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072221S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 23 04:51:13 2021
 Response via : Initial Calibration

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

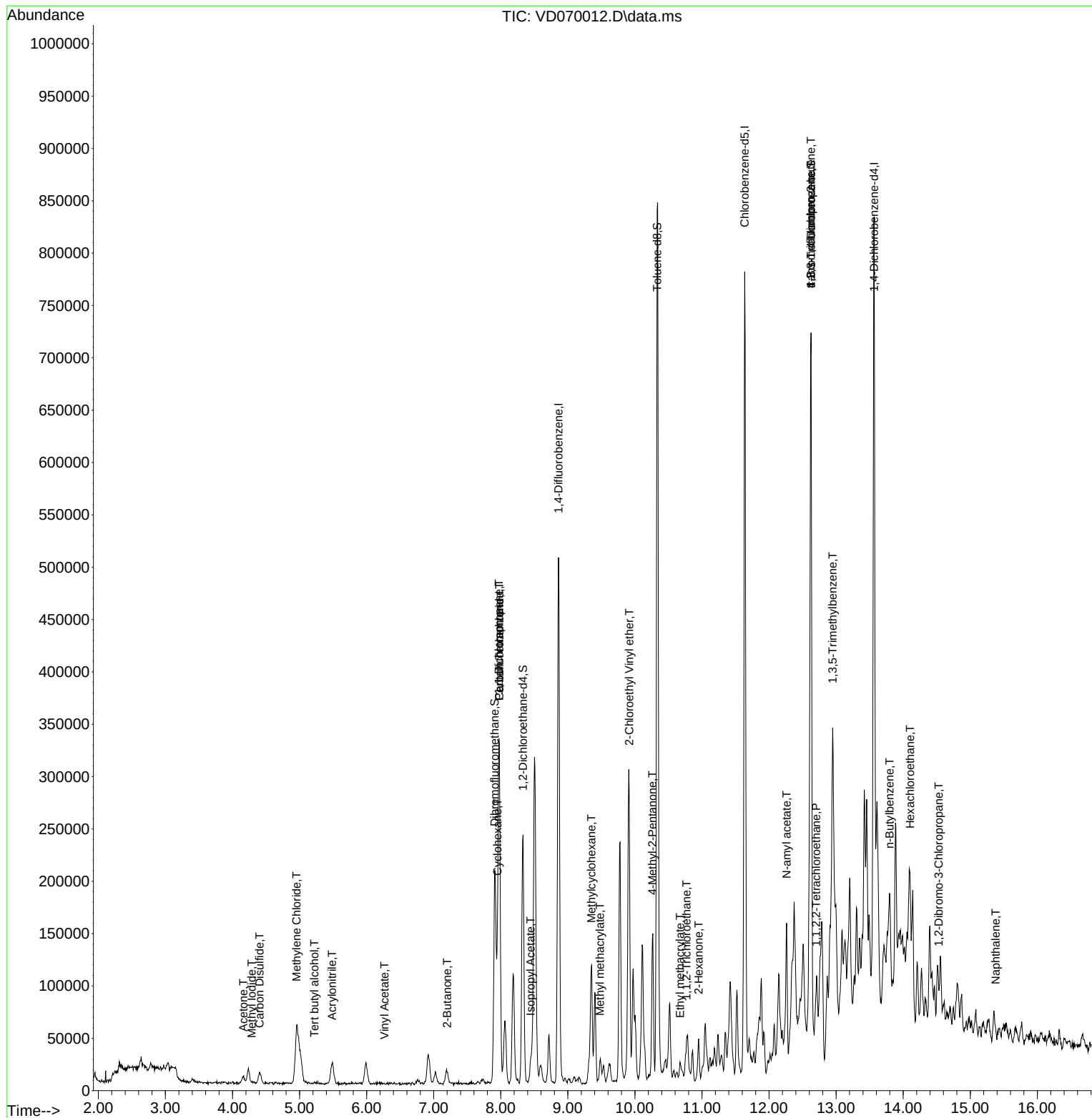
Internal Standards						
1) Pentafluorobenzene	7.979	168	208566	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	429987	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	439985	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	202760	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	185797	77.457	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 154.920%	
35) Dibromofluoromethane	7.908	113	153227	56.528	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 113.060%	
50) Toluene-d8	10.332	98	587045	56.165	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 112.340%	
62) 4-Bromofluorobenzene	12.626	95	220482	63.119	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 126.240%	
Target Compounds						
						Qvalue
5) Bromomethane	2.779	94	2553	Below Cal	#	63
10) Methyl Iodide	4.285	142	1000	3.821	ug/l #	70
11) Tert butyl alcohol	5.220	59	408	3.287	ug/l #	73
15) Acrylonitrile	5.485	53	893	1.632	ug/l #	28
16) Acetone	4.162	43	11034	25.464	ug/l	98
17) Carbon Disulfide	4.403	76	22941	2.689	ug/l #	82
20) Methylene Chloride	4.956	84	40297	7.464	ug/l	95
23) Vinyl Acetate	6.267	43	79	20.367	ug/l #	71
25) 2-Butanone	7.203	43	1080	1.838	ug/l #	46
31) Cyclohexane	7.950	56	28080	5.991	ug/l #	48
36) 1,1-Dichloropropene	7.973	75	19070	4.110	ug/l #	49
38) Carbon Tetrachloride	7.979	117	21890	5.164	ug/l #	16
39) Methylcyclohexane	9.350	83	15719	2.958	ug/l #	61
43) Isopropyl Acetate	8.444	43	5867	1.936	ug/l #	47
48) Methyl methacrylate	9.479	41	5708	6.091	ug/l #	22
51) 4-Methyl-2-Pentanone	10.261	43	14842	9.414	ug/l #	78
55) 1,1,2-Trichloroethane	10.767	97	7068	2.883	ug/l #	32
56) Ethyl methacrylate	10.673	69	1491	4.349	ug/l #	15
58) 2-Chloroethyl Vinyl ether	9.914	63	581	21.269	ug/l #	48
59) 2-Hexanone	10.949	43	12228	11.726	ug/l #	28
74) N-amyl acetate	12.261	43	25548	8.526	ug/l #	68
75) 1,1,2,2-Tetrachloroethane	12.702	83	4354	1.497	ug/l #	1
76) 1,2,3-Trichloropropane	12.626	75	106025	49.195	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.949	105	54089	4.340	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.626	75	106025	149.245	ug/l #	16
89) n-Butylbenzene	13.796	91	13632	1.061	ug/l #	1
90) Hexachloroethane	14.102	117	4138	1.501	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.532	75	1288	3.074	ug/l #	7
95) Naphthalene	15.379	128	2855	5.386	ug/l #	92

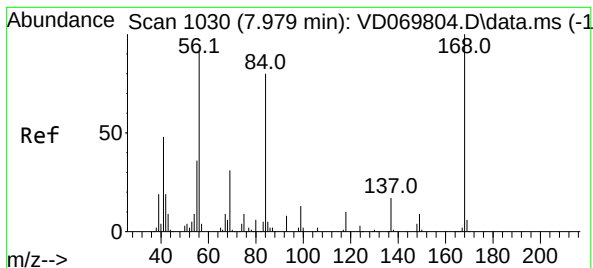
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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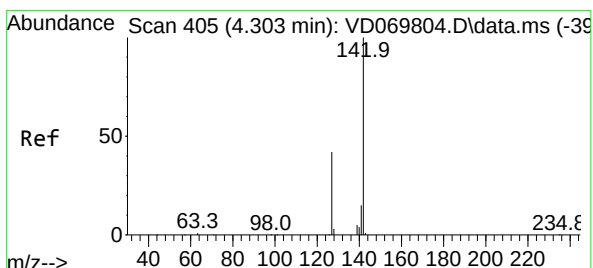
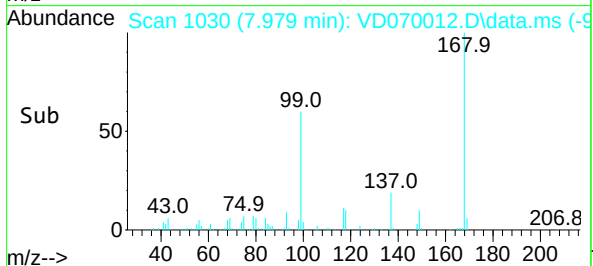
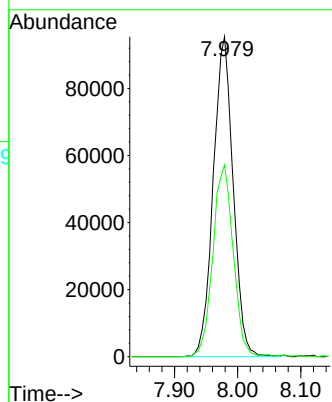
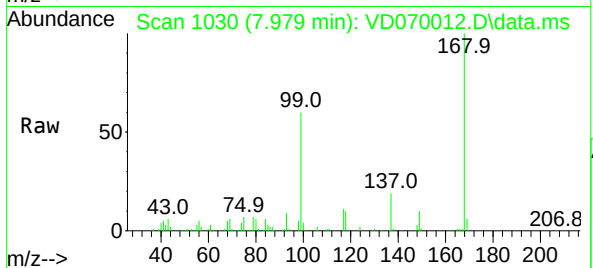




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

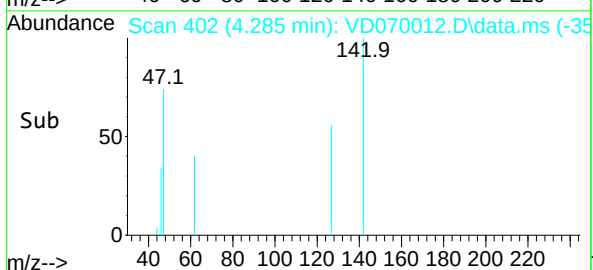
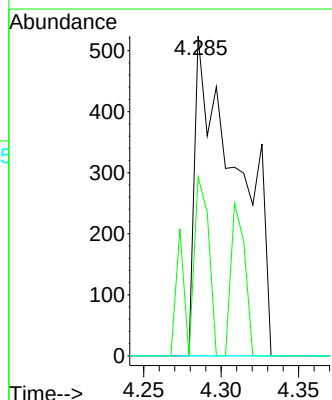
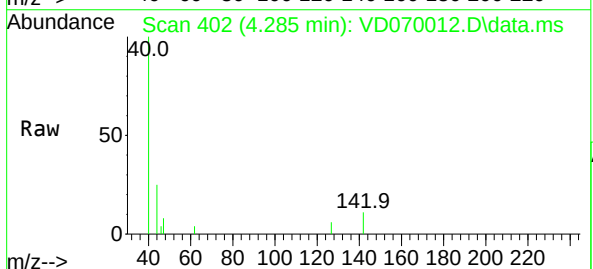
Instrument :
MSVOA_D
ClientSampleId :

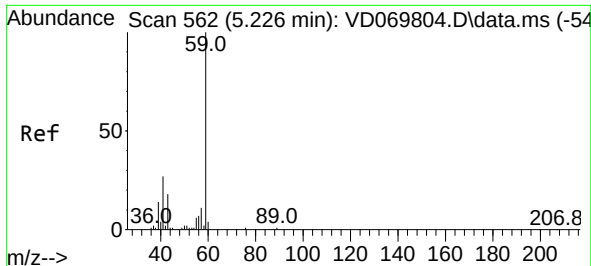
Tgt Ion:168 Resp: 208566
Ion Ratio Lower Upper
168 100
99 59.9 51.1 76.7



#10
Methyl Iodide
Concen: 3.821 ug/l
RT: 4.285 min Scan# 402
Delta R.T. -0.018 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion:142 Resp: 1000
Ion Ratio Lower Upper
142 100
127 26.0 35.7 53.5#
141 0.0 12.0 18.0#



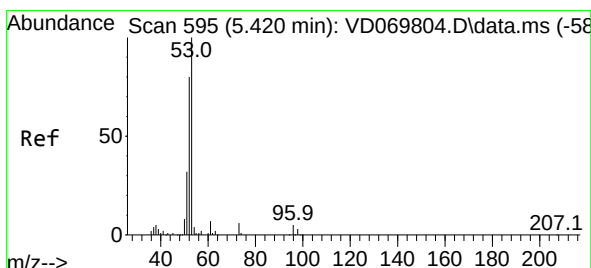
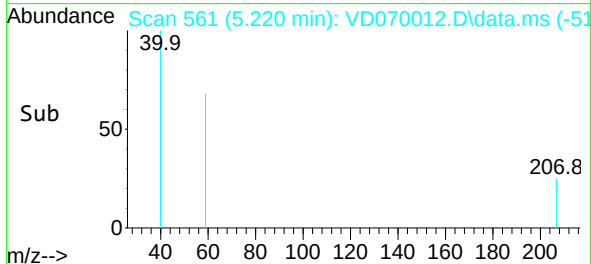
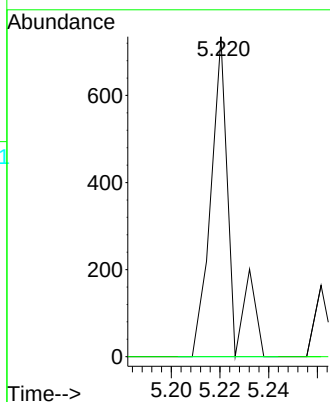
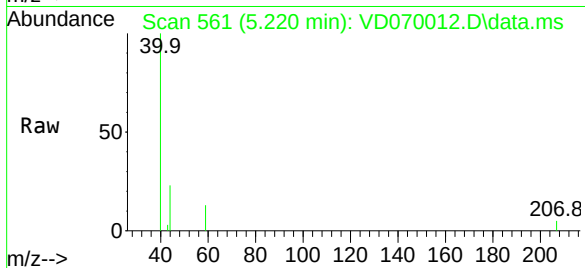


#11

Tert butyl alcohol
Concen: 3.287 ug/l
RT: 5.220 min Scan# 561
Delta R.T. -0.006 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Instrument :
MSVOA_D
ClientSampleId :

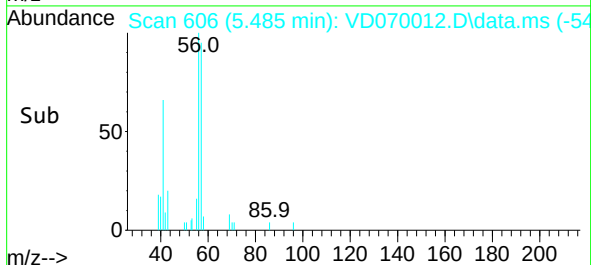
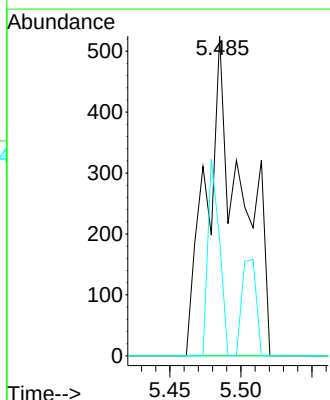
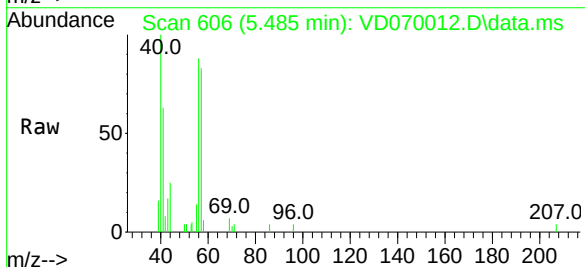
Tgt Ion: 59 Resp: 408
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

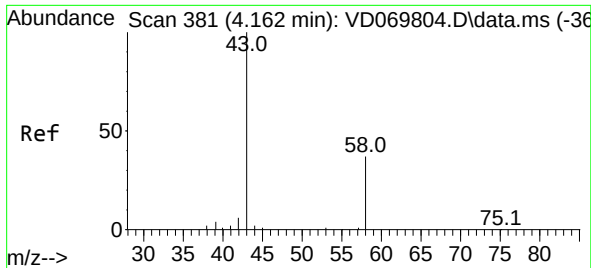


#15

Acrylonitrile
Concen: 1.632 ug/l
RT: 5.485 min Scan# 606
Delta R.T. 0.065 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 53 Resp: 893
Ion Ratio Lower Upper
53 100
52 0.0 65.3 97.9#
51 20.3 28.3 42.5#

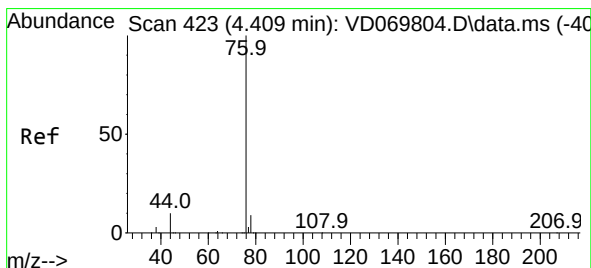
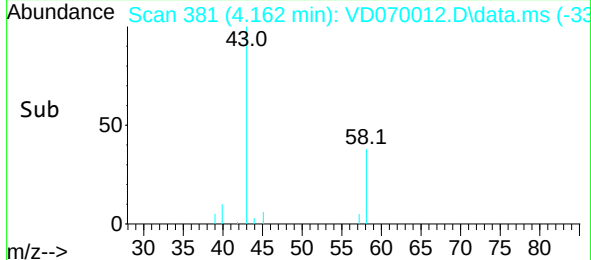
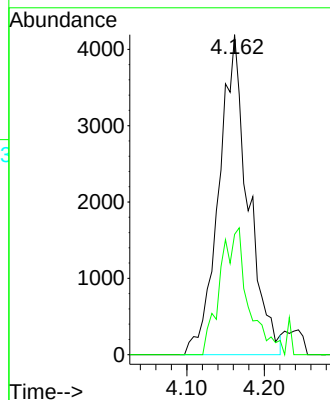
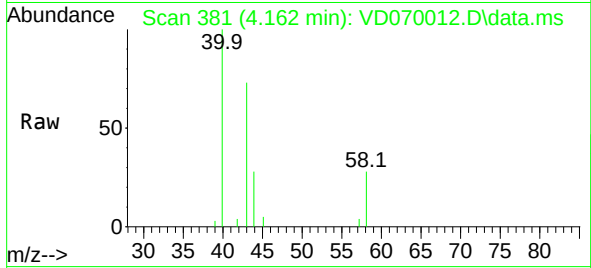




#16
Acetone
Concen: 25.464 ug/l
RT: 4.162 min Scan# 381
Delta R.T. -0.000 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

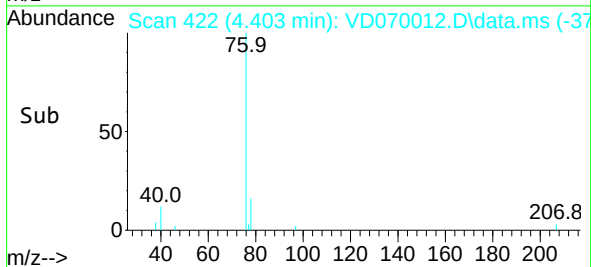
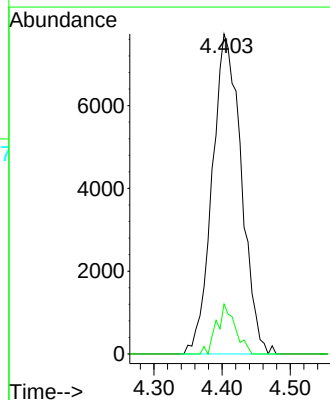
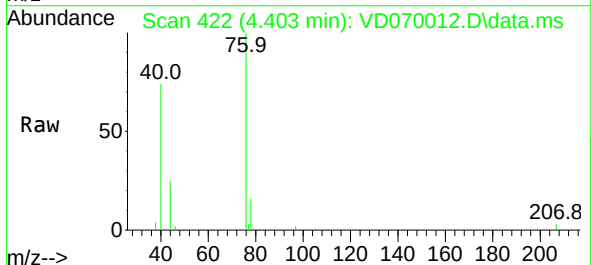
Instrument :
MSVOA_D
ClientSampled :

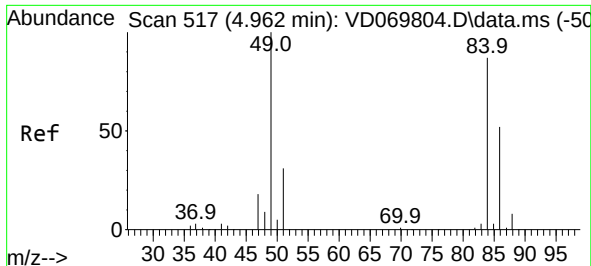
Tgt Ion: 43 Resp: 11034
Ion Ratio Lower Upper
43 100
58 37.6 29.4 44.0



#17
Carbon Disulfide
Concen: 2.689 ug/l
RT: 4.403 min Scan# 422
Delta R.T. -0.006 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

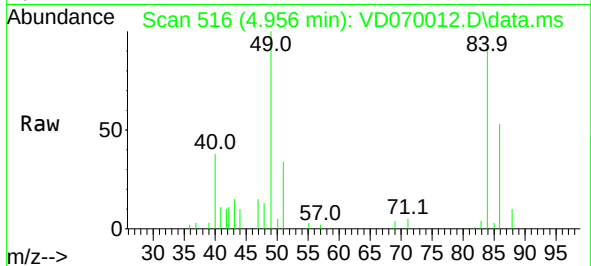
Tgt Ion: 76 Resp: 22941
Ion Ratio Lower Upper
76 100
78 15.6 7.3 10.9#





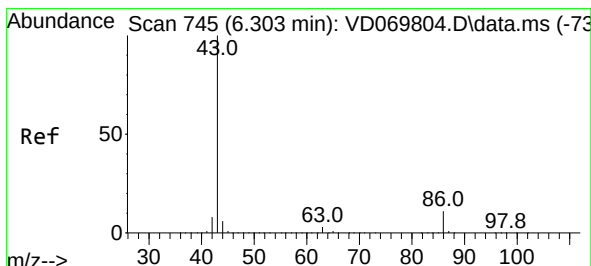
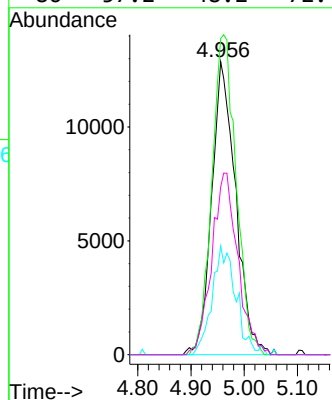
#20
Methylene Chloride
Concen: 7.464 ug/l
RT: 4.956 min Scan# 516
Delta R.T. -0.006 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Instrument :
MSVOA_D
ClientSampleId :

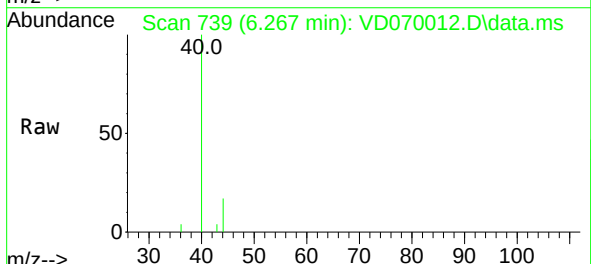


Tgt Ion: 84 Resp: 40297

Ion	Ratio	Lower	Upper
84	100		
49	107.9	92.4	138.6
51	37.1	28.5	42.7
86	57.2	48.2	72.4

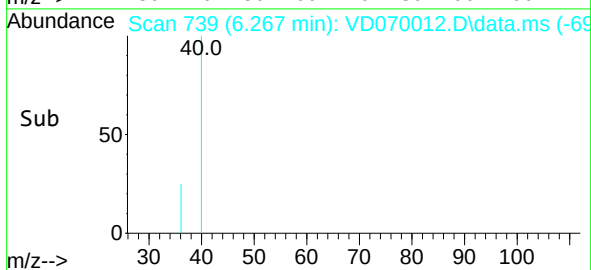
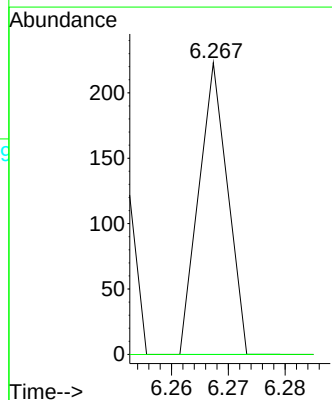


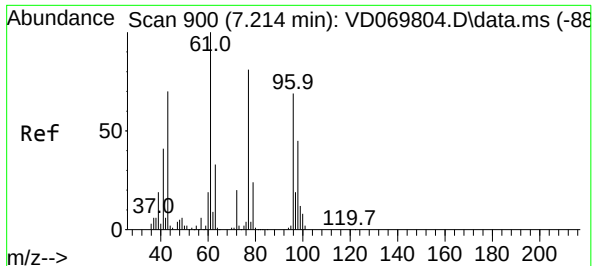
#23
Vinyl Acetate
Concen: 20.367 ug/l
RT: 6.267 min Scan# 739
Delta R.T. -0.036 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42



Tgt Ion: 43 Resp: 79

Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.6	13.0#

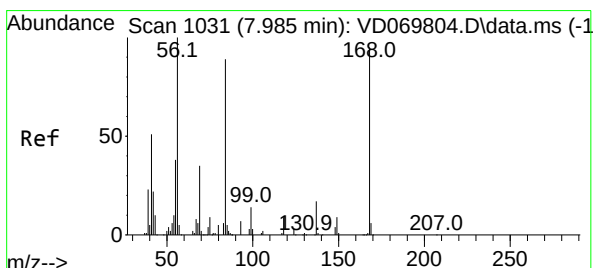
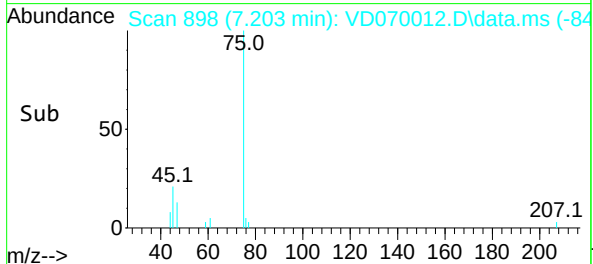
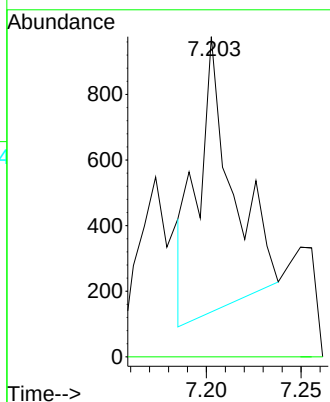
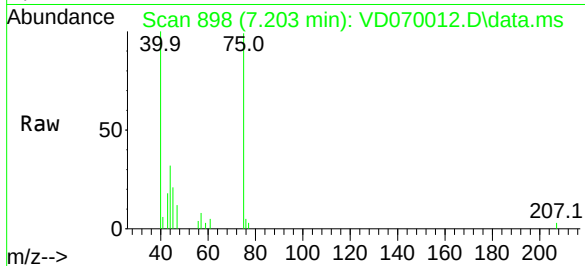




#25
2-Butanone
Concen: 1.838 ug/l
RT: 7.203 min Scan# 898
Delta R.T. -0.012 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

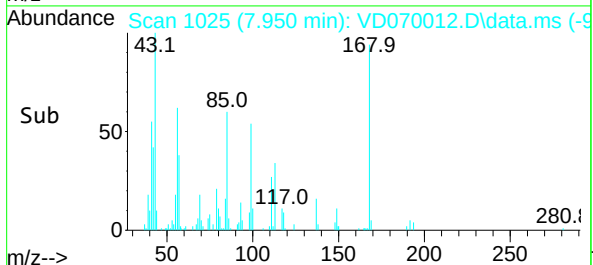
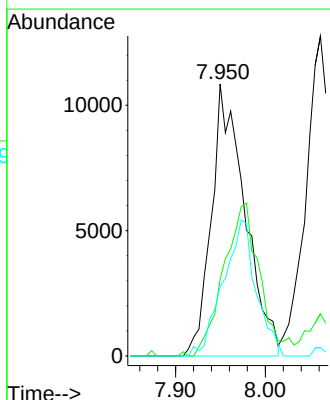
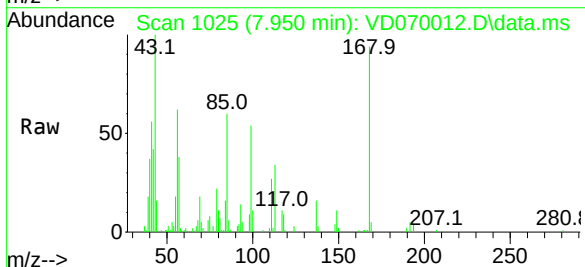
Instrument :
MSVOA_D
ClientSampleId :

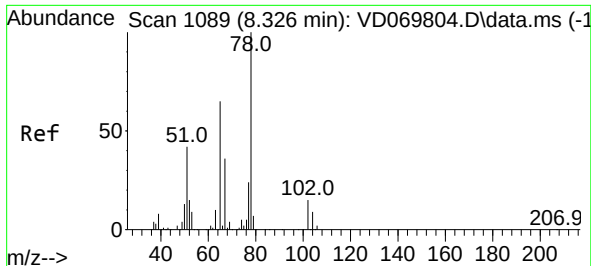
Tgt Ion: 43 Resp: 1080
Ion Ratio Lower Upper
43 100
72 0.0 22.8 34.2#



#31
Cyclohexane
Concen: 5.991 ug/l
RT: 7.950 min Scan# 1025
Delta R.T. -0.035 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 56 Resp: 28080
Ion Ratio Lower Upper
56 100
69 28.2 27.9 41.9
84 25.7 71.4 107.2#

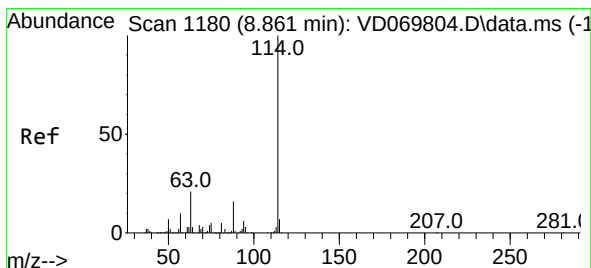
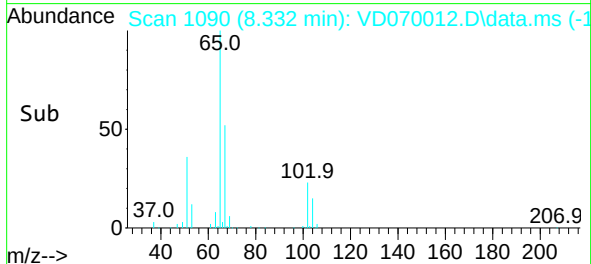
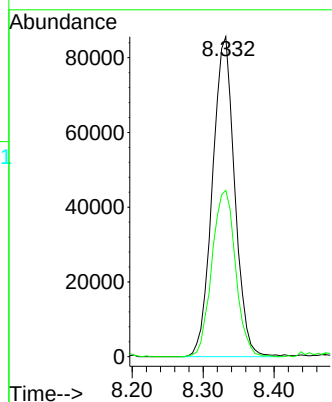
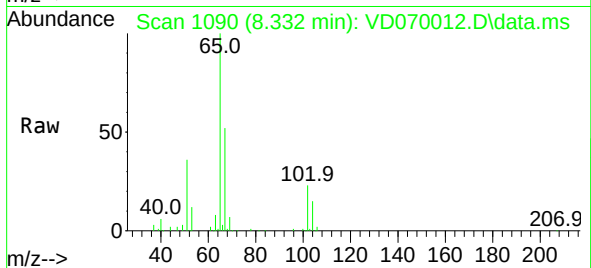




#33
1,2-Dichloroethane-d4
Concen: 77.457 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

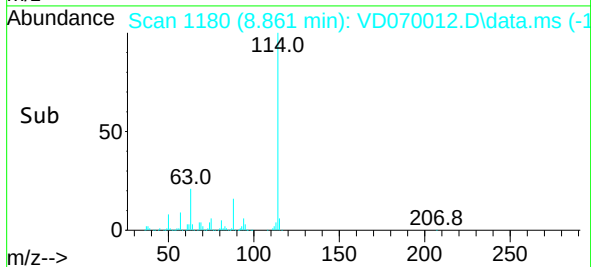
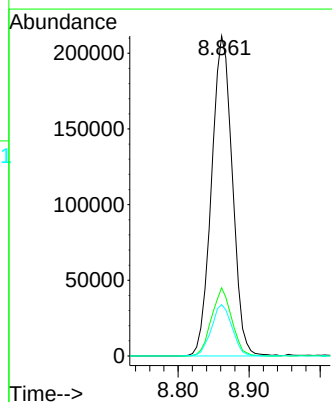
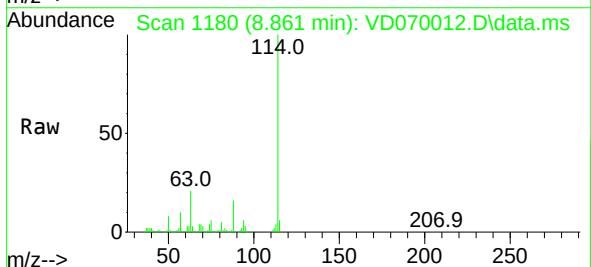
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MSVOA_D
ClientSampleId :

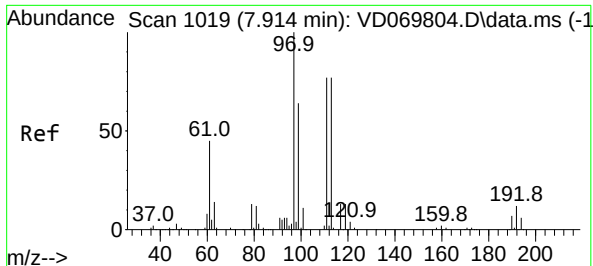
Tgt Ion: 65 Resp: 185797
Ion Ratio Lower Upper
65 100
67 55.2 0.0 111.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 114 Resp: 429987
Ion Ratio Lower Upper
114 100
63 21.3 0.0 41.6
88 16.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 56.528 ug/l

RT: 7.908 min Scan# 1018

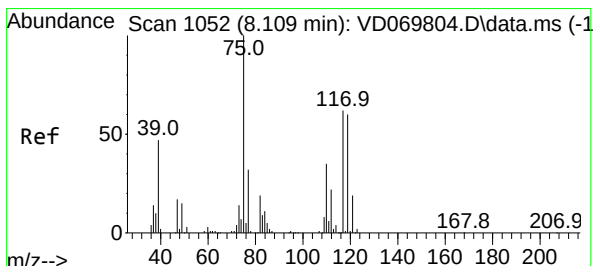
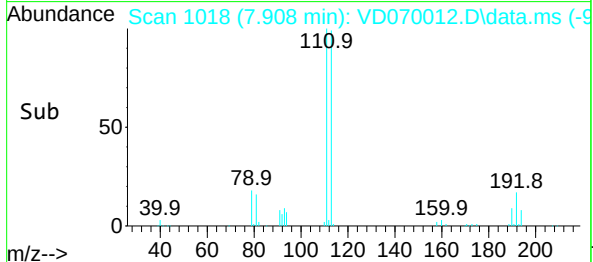
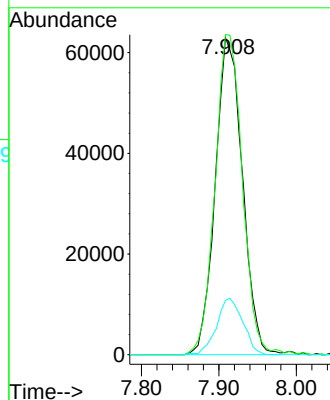
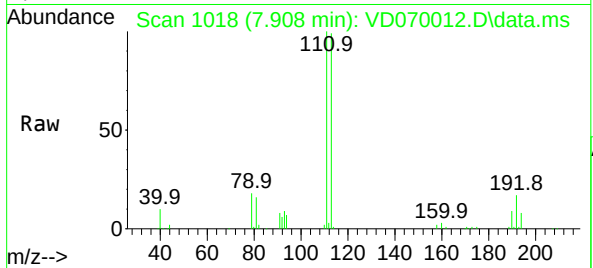
Delta R.T. -0.006 min

Lab File: VD070012.D

Acq: 09 Aug 2021 22:42

Tgt Ion:	113	Resp:	153227
Ion Ratio	Lower	Upper	
113	100		
111	102.3	80.5	120.7
192	17.2	12.6	19.0

Instrument :
MSVOA_D
ClientSampleId :



#36

1,1-Dichloropropene

Concen: 4.110 ug/l

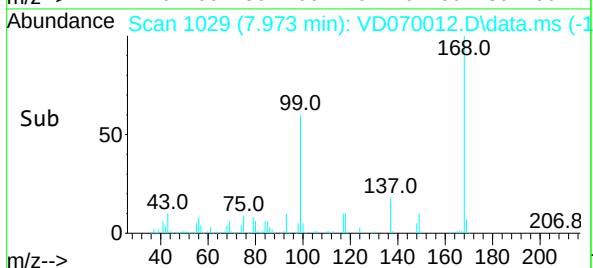
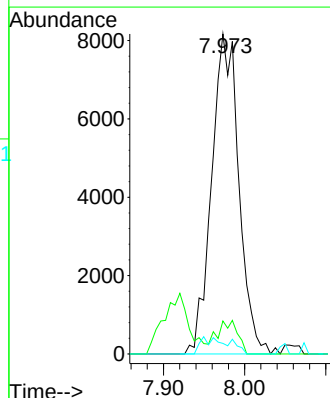
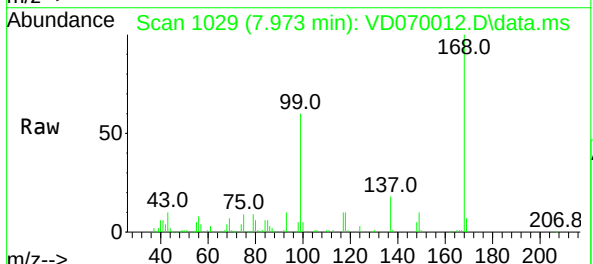
RT: 7.973 min Scan# 1029

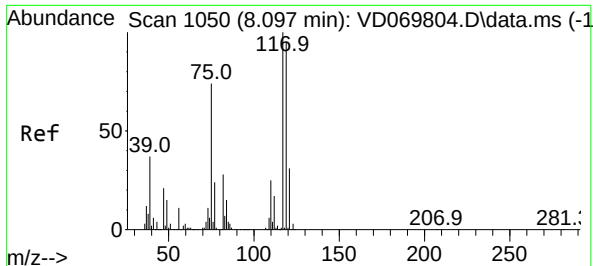
Delta R.T. -0.135 min

Lab File: VD070012.D

Acq: 09 Aug 2021 22:42

Tgt Ion:	75	Resp:	19070
Ion Ratio	Lower	Upper	
75	100		
110	7.8	16.9	50.7#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.164 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.118 min

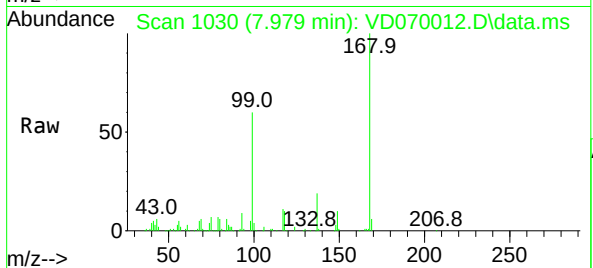
Lab File: VD070012.D

Acq: 09 Aug 2021 22:42

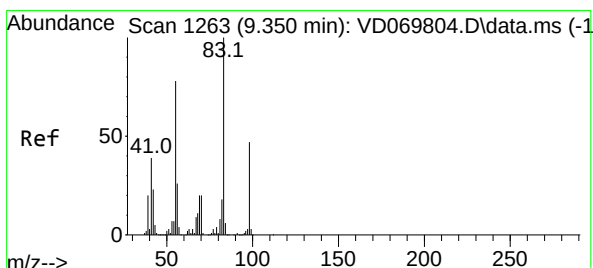
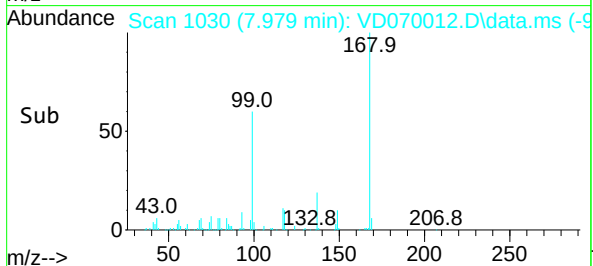
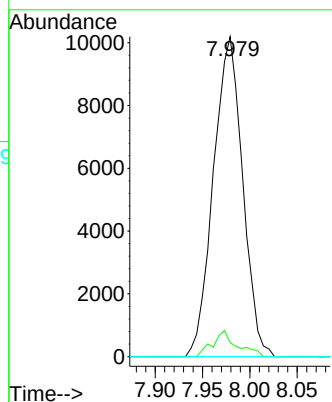
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	117	Resp:	21890
Ion	Ratio	Lower	Upper
117	100		
119	4.4	76.2	114.2#
121	0.0	24.5	36.7#



#39

Methylcyclohexane

Concen: 2.958 ug/l

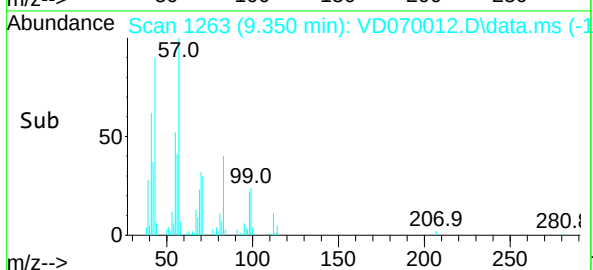
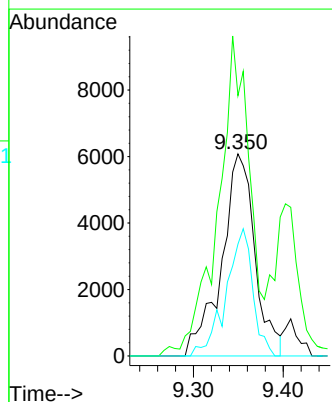
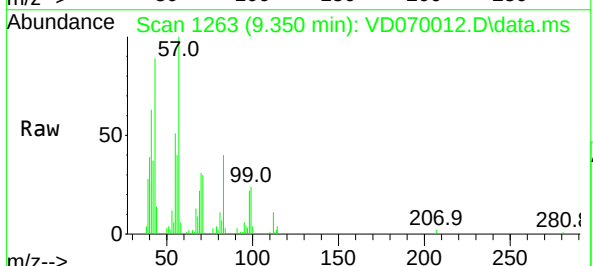
RT: 9.350 min Scan# 1263

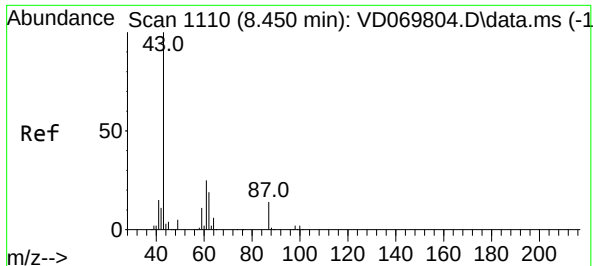
Delta R.T. -0.000 min

Lab File: VD070012.D

Acq: 09 Aug 2021 22:42

Tgt Ion:	83	Resp:	15719
Ion	Ratio	Lower	Upper
83	100		
55	125.4	62.2	93.2#
98	55.3	37.8	56.8





#43

Isopropyl Acetate

Concen: 1.936 ug/l

RT: 8.444 min Scan# 1109

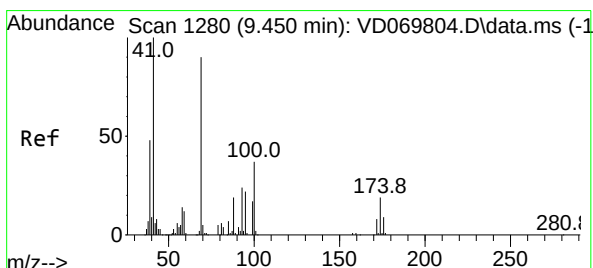
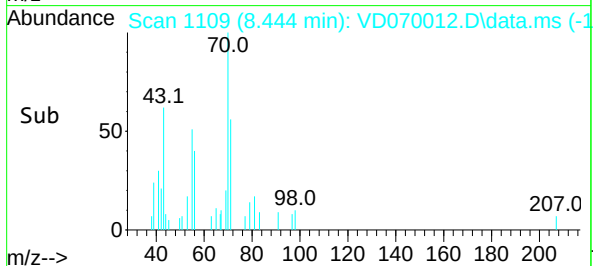
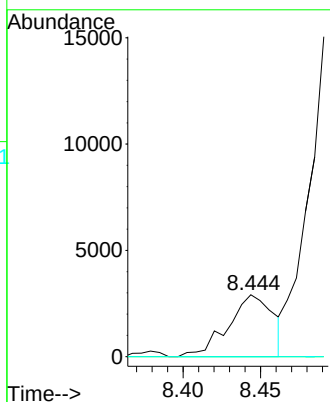
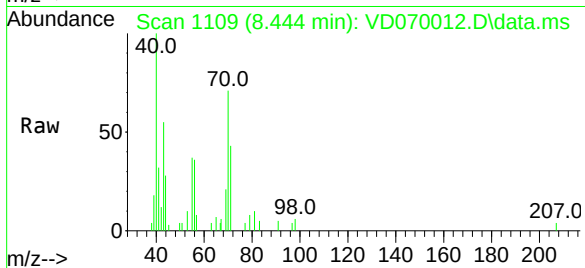
Delta R.T. -0.006 min

Lab File: VD070012.D

Acq: 09 Aug 2021 22:42

Tgt Ion: 43	Resp: 5867
Ion Ratio	Lower Upper
43	100
61	0.0 27.8 41.6#
87	0.0 11.3 16.9#

Instrument :
MSVOA_D
ClientSampleId :



#48

Methyl methacrylate

Concen: 6.091 ug/l

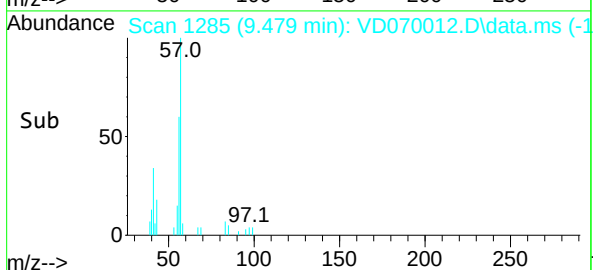
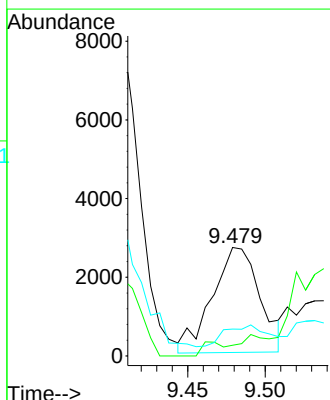
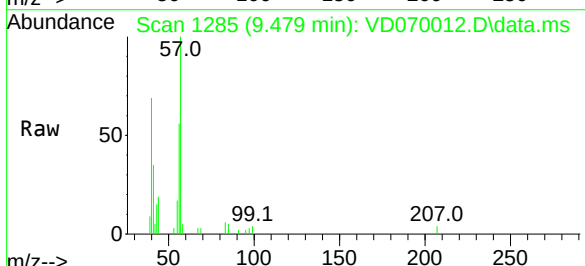
RT: 9.479 min Scan# 1285

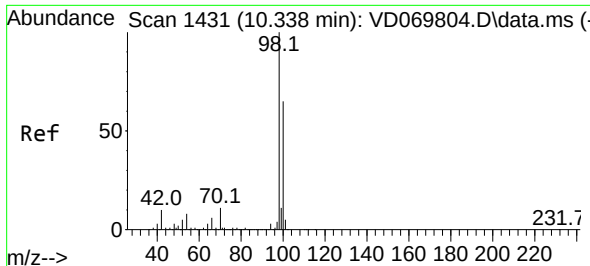
Delta R.T. 0.029 min

Lab File: VD070012.D

Acq: 09 Aug 2021 22:42

Tgt Ion: 41	Resp: 5708
Ion Ratio	Lower Upper
41	100
69	0.0 73.4 110.2#
39	18.1 36.6 55.0#

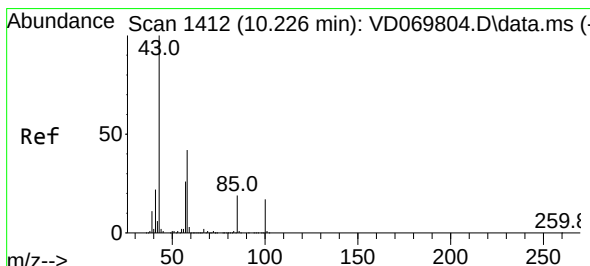
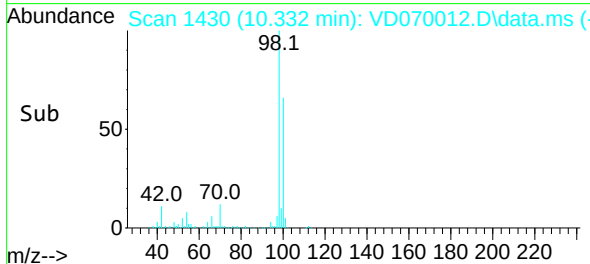
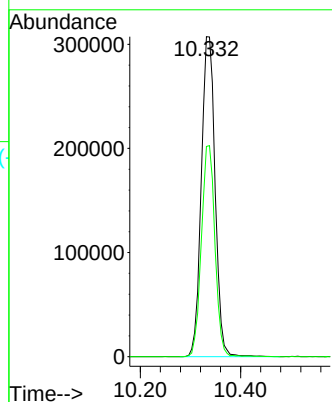
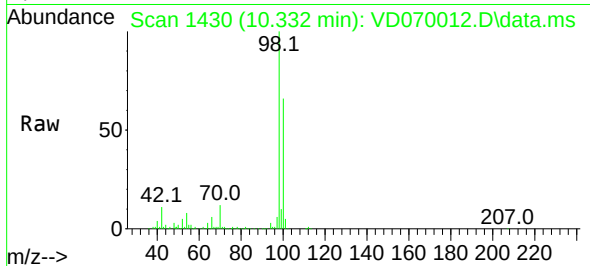




#50
Toluene-d8
Concen: 56.165 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

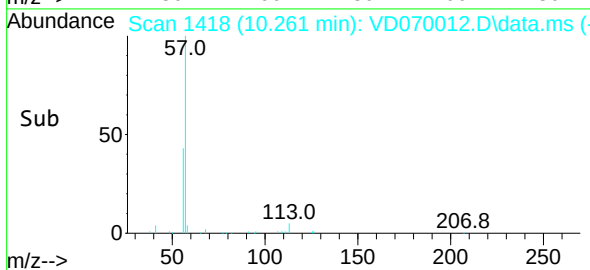
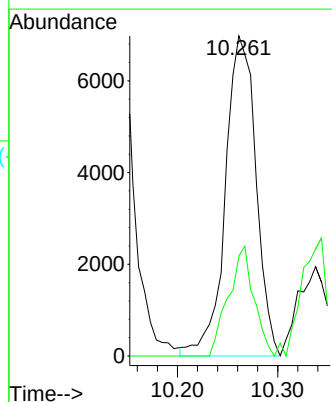
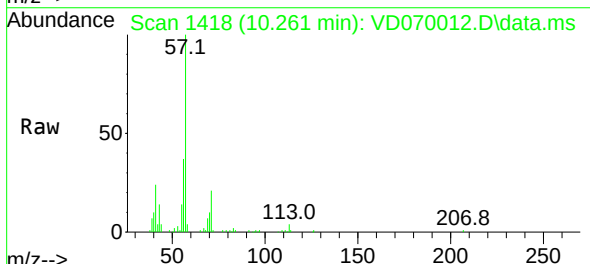
Instrument :
MSVOA_D
ClientSampled :

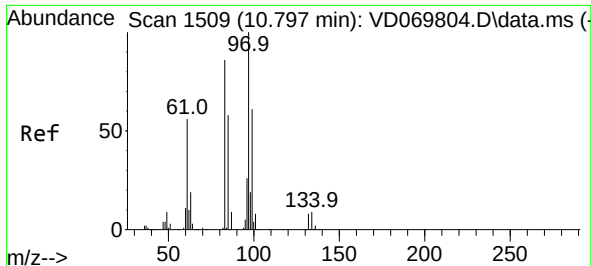
Tgt Ion: 98 Resp: 587045
Ion Ratio Lower Upper
98 100
100 65.0 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 9.414 ug/l
RT: 10.261 min Scan# 1418
Delta R.T. 0.035 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

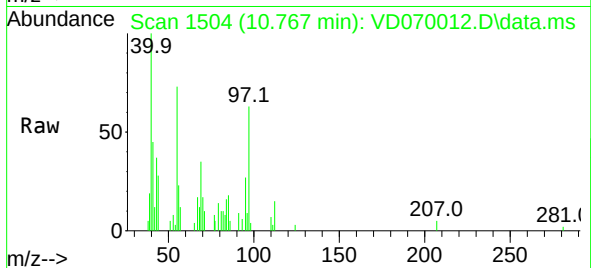
Tgt Ion: 43 Resp: 14842
Ion Ratio Lower Upper
43 100
58 28.4 33.7 50.5#



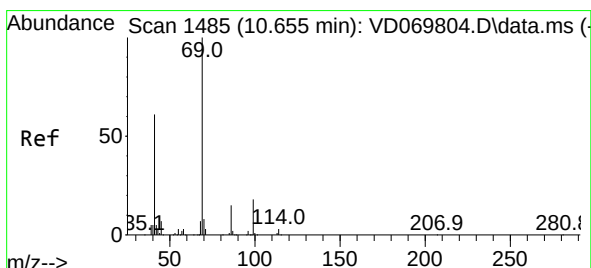
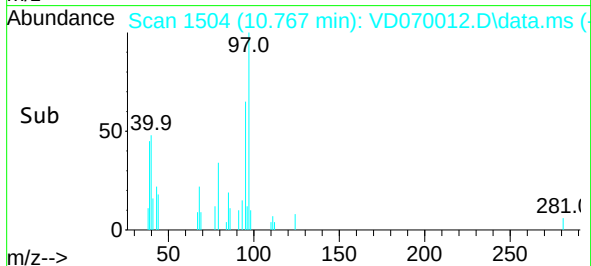
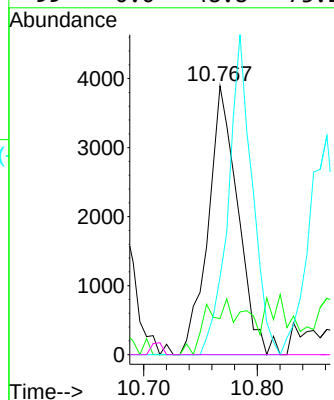


#55
1,1,2-Trichloroethane
Concen: 2.883 ug/l
RT: 10.767 min Scan# 1504
Delta R.T. -0.030 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Instrument :
MSVOA_D
ClientSampleId :

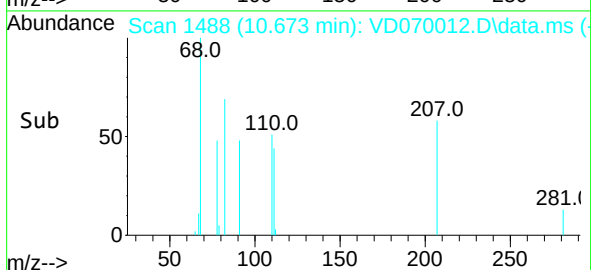
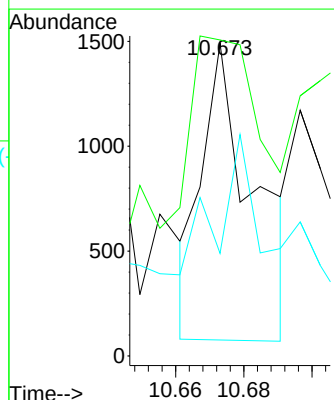
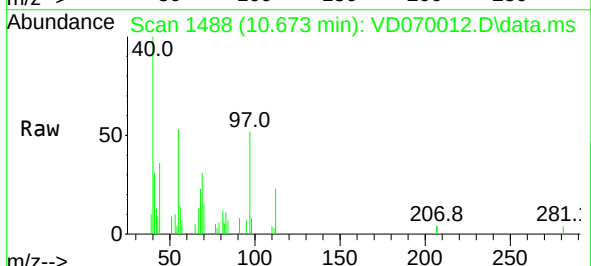


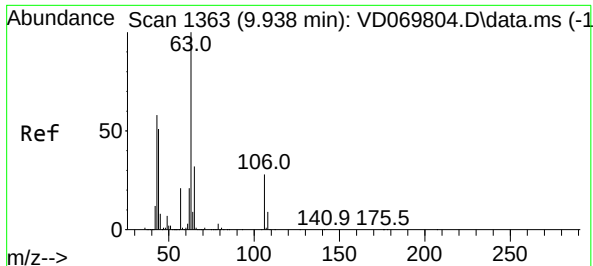
Tgt Ion:	97	Resp:	7068
Ion	Ratio	Lower	Upper
97	100		
83	13.4	69.1	103.7#
85	28.8	46.2	69.2#
99	0.0	48.8	73.2#



#56
Ethyl methacrylate
Concen: 4.349 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.018 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion:	69	Resp:	1491
Ion	Ratio	Lower	Upper
69	100		
41	119.0	50.2	75.2#
39	86.2	22.0	33.0#

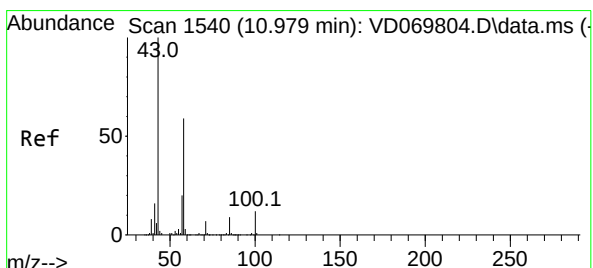
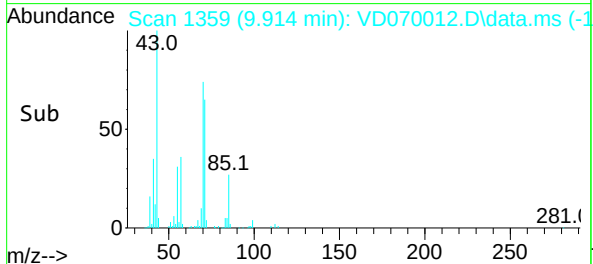
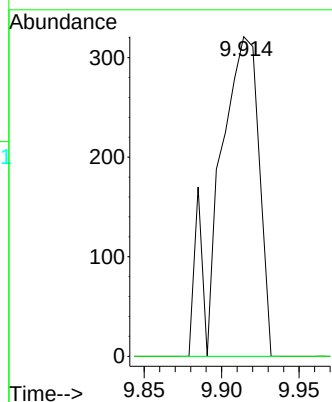
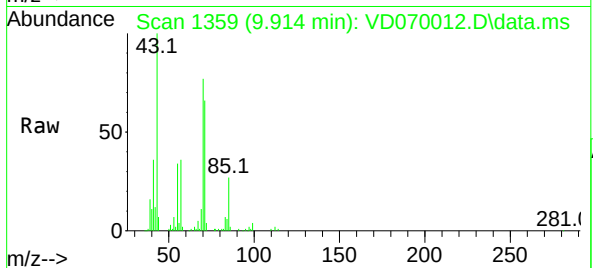




#58
2-Chloroethyl Vinyl ether
Concen: 21.269 ug/l
RT: 9.914 min Scan# 1359
Delta R.T. -0.024 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

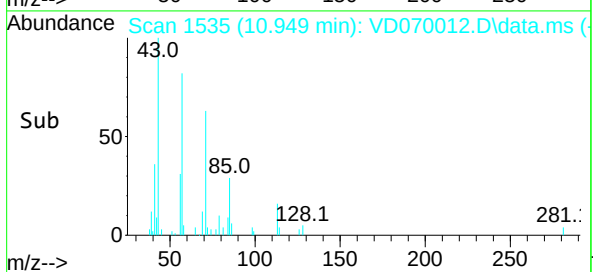
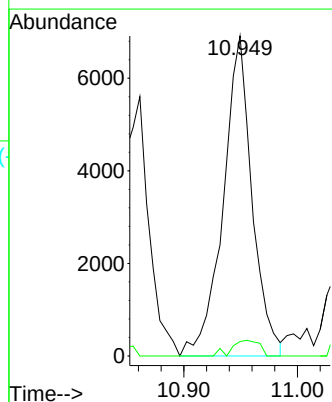
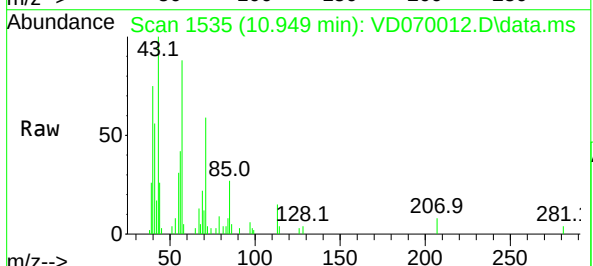
Instrument :
MSVOA_D
ClientSampled :

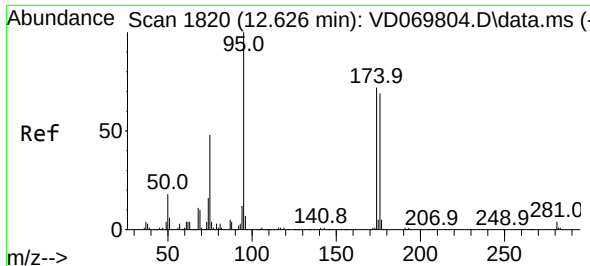
Tgt Ion: 63 Resp: 581
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.6#



#59
2-Hexanone
Concen: 11.726 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.030 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 43 Resp: 12228
Ion Ratio Lower Upper
43 100
58 4.7 29.4 88.3#

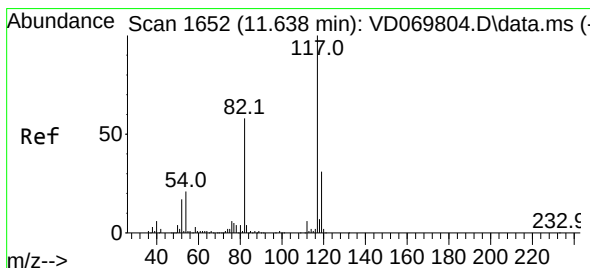
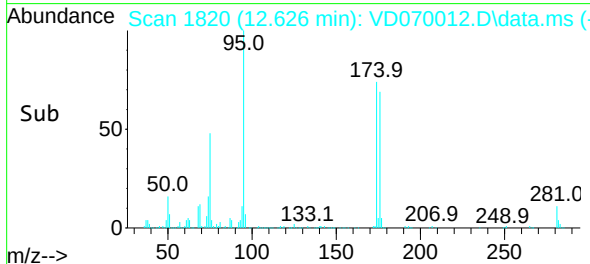
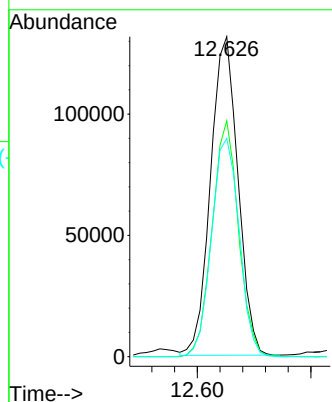
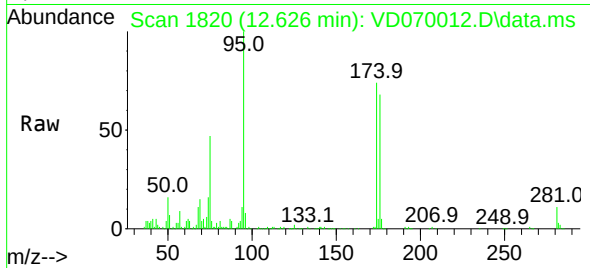




#62
4-Bromofluorobenzene
Concen: 63.119 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

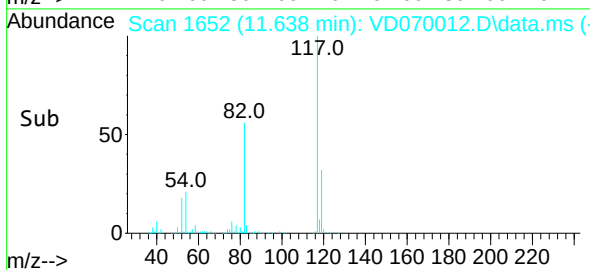
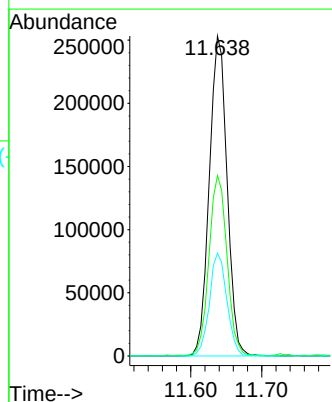
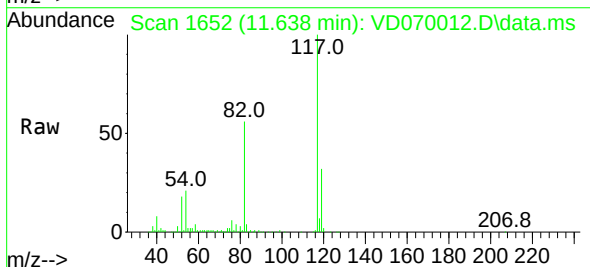
Instrument :
MSVOA_D
ClientSampleId :

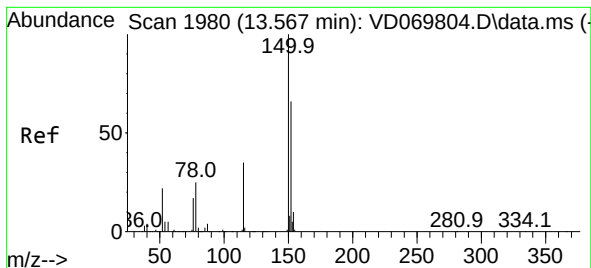
Tgt Ion: 95 Resp: 220482
Ion Ratio Lower Upper
95 100
174 71.1 0.0 142.6
176 69.0 0.0 134.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 117 Resp: 439985
Ion Ratio Lower Upper
117 100
82 56.1 46.3 69.5
119 32.1 24.7 37.1

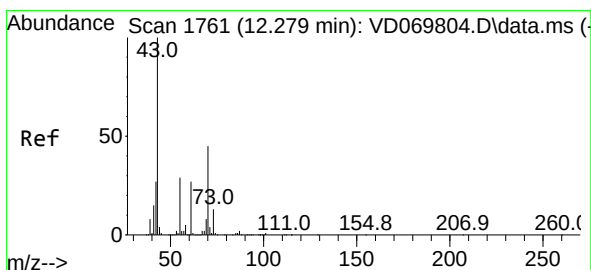
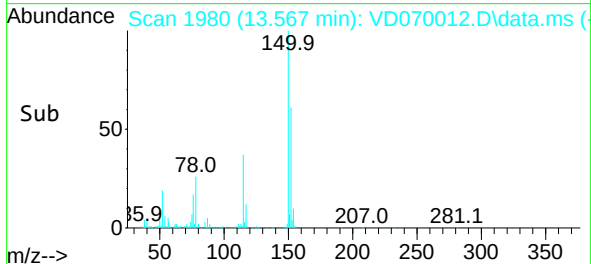
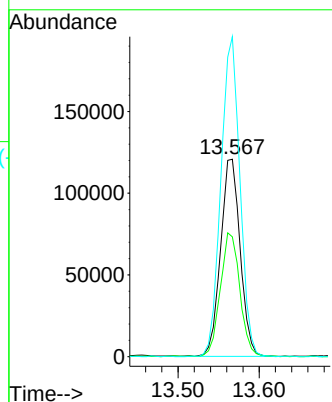
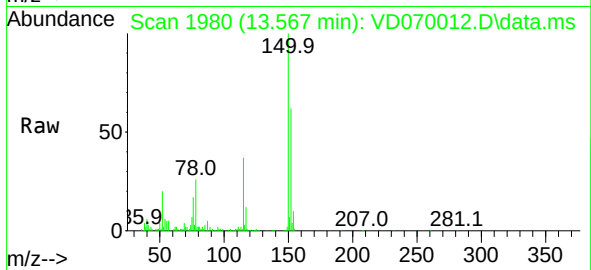




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

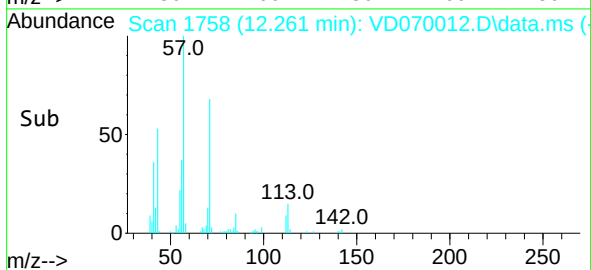
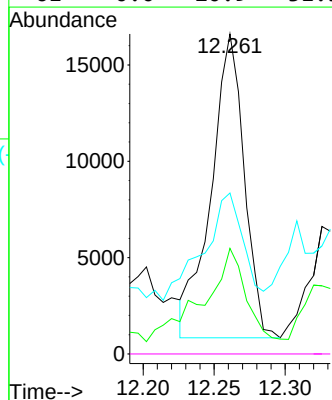
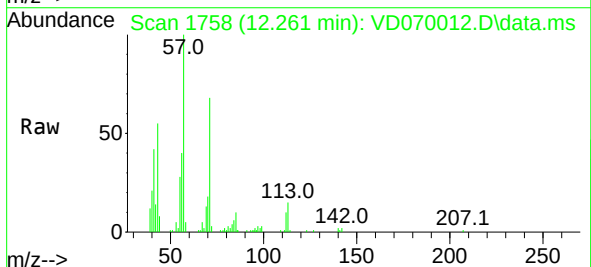
Instrument :
MSVOA_D
ClientSampleId :

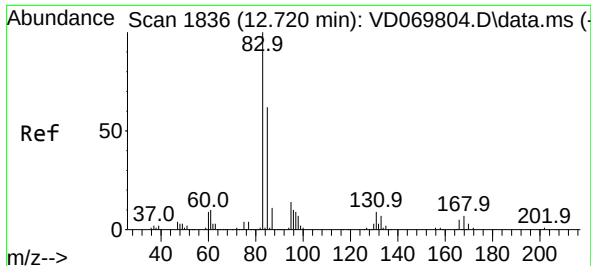
Tgt Ion:152 Resp: 202760
Ion Ratio Lower Upper
152 100
115 62.7 31.1 93.3
150 157.5 0.0 343.0



#74
N-ethyl acetate
Concen: 8.526 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 43 Resp: 25548
Ion Ratio Lower Upper
43 100
70 39.5 37.9 56.9
55 54.4 23.7 35.5#
61 0.0 20.9 31.3#

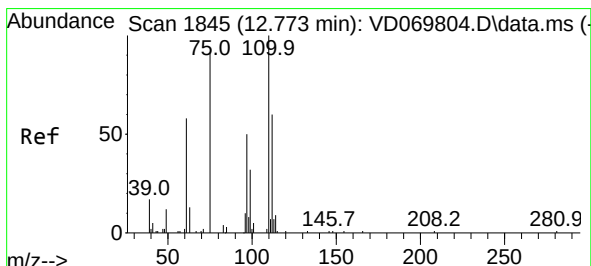
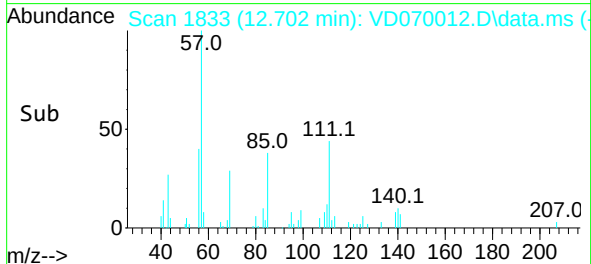
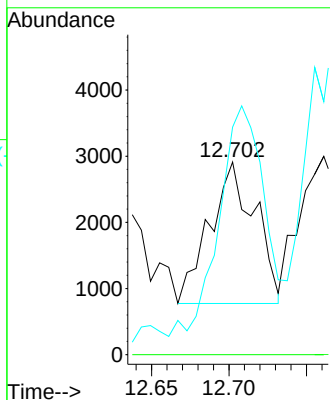
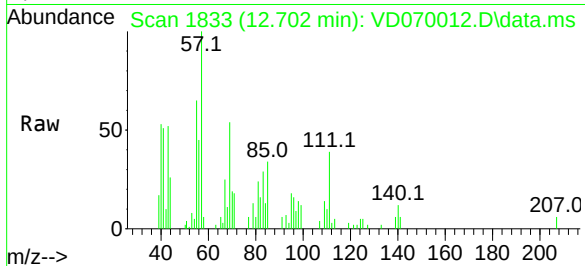




#75
1,1,2,2-Tetrachloroethane
Concen: 1.497 ug/l
RT: 12.702 min Scan# 1833
Delta R.T. -0.018 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

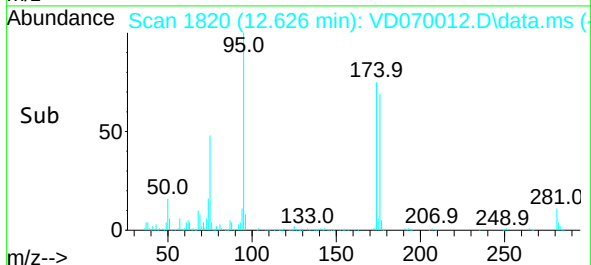
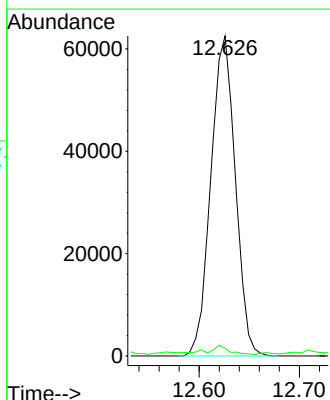
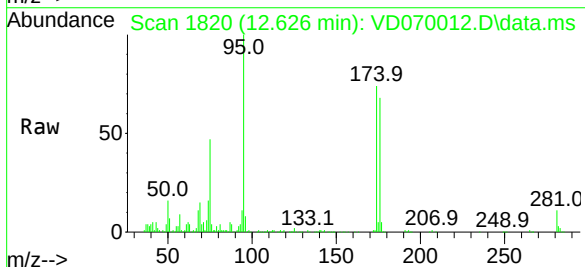
Instrument :
MSVOA_D
ClientSampleId :

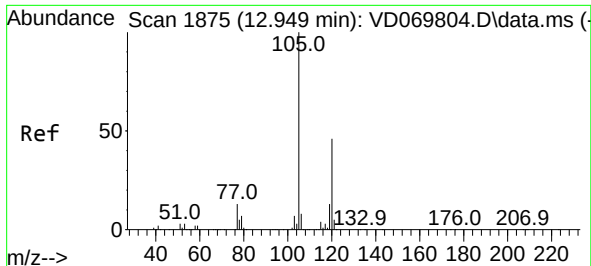
Tgt Ion: 83 Resp: 4354
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.6#
85 167.2 31.8 95.4#



#76
1,2,3-Trichloropropane
Concen: 49.195 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 75 Resp: 106025
Ion Ratio Lower Upper
75 100
77 2.4 181.5 544.5#

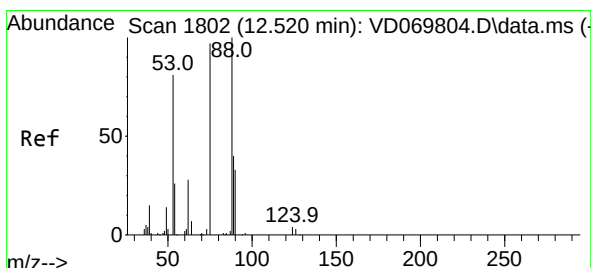
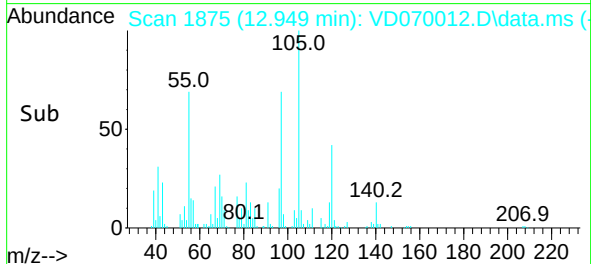
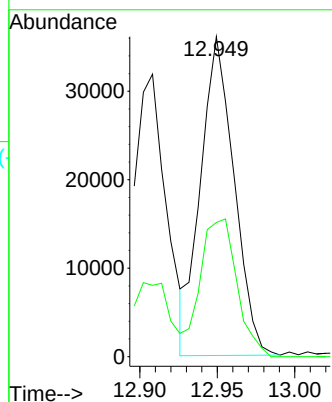
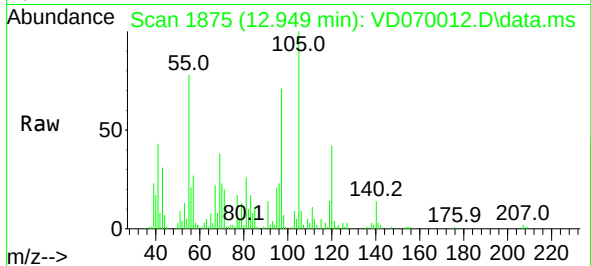




#80
1,3,5-Trimethylbenzene
Concen: 4.340 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

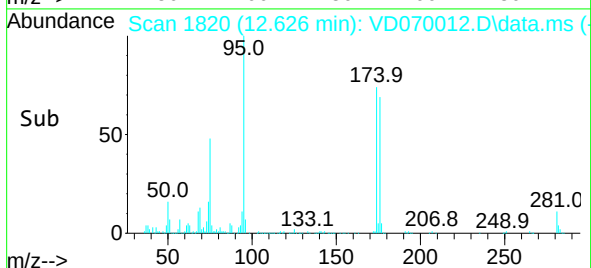
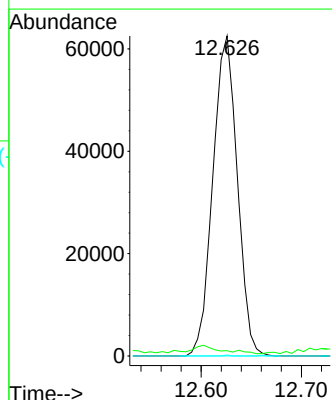
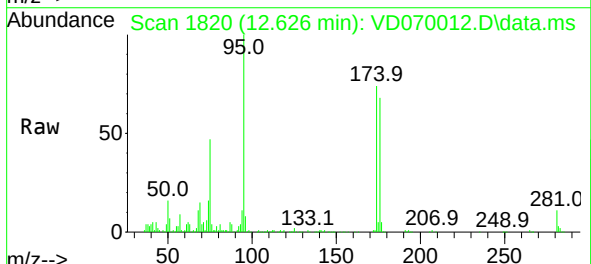
Instrument :
MSVOA_D
ClientSampleId :

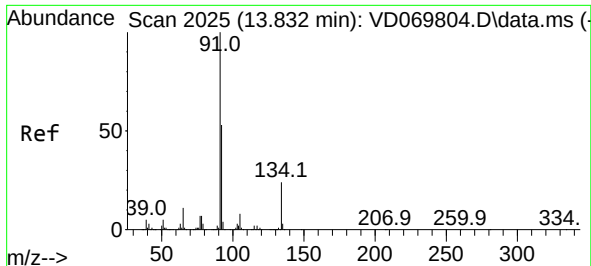
Tgt Ion:105 Resp: 54089
Ion Ratio Lower Upper
105 100
120 47.4 23.8 71.2



#81
trans-1,4-Dichloro-2-butene
Concen: 149.245 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 75 Resp: 106025
Ion Ratio Lower Upper
75 100
53 0.0 67.2 100.8#
89 0.1 35.8 53.6#

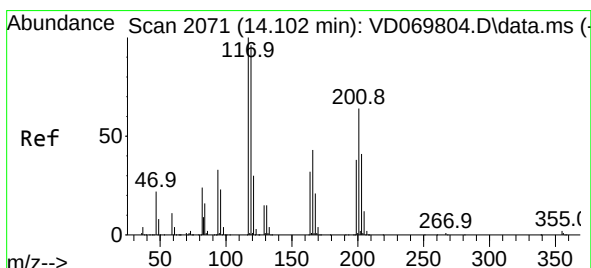
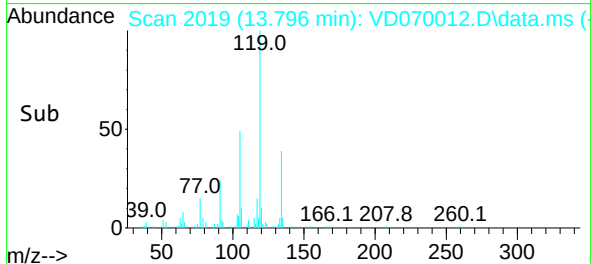
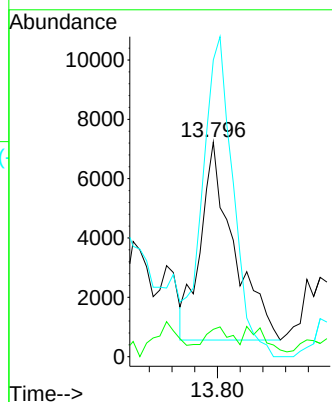
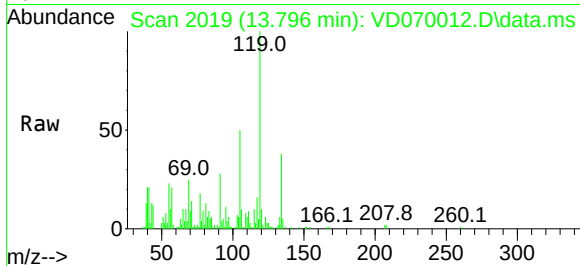




#89
n-Butylbenzene
Concen: 1.061 ug/l
RT: 13.796 min Scan# 2019
Delta R.T. -0.035 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

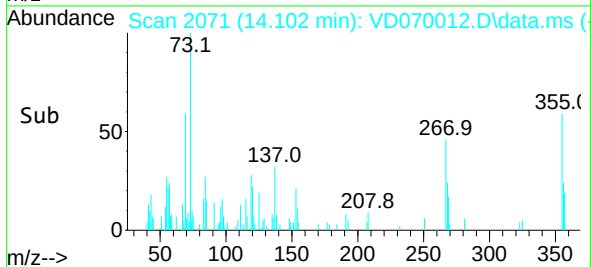
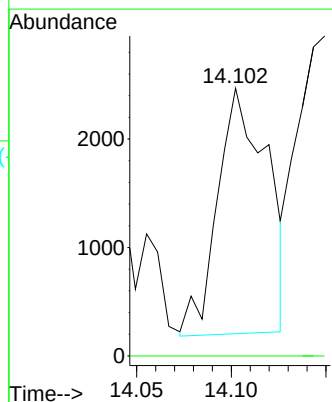
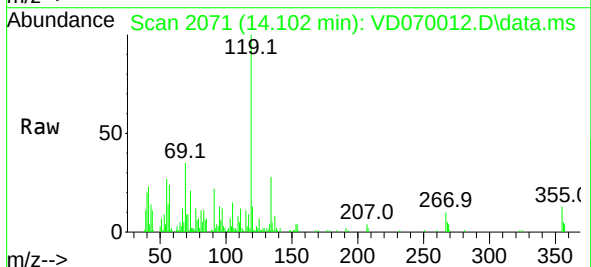
Instrument :
MSVOA_D
ClientSampleId :

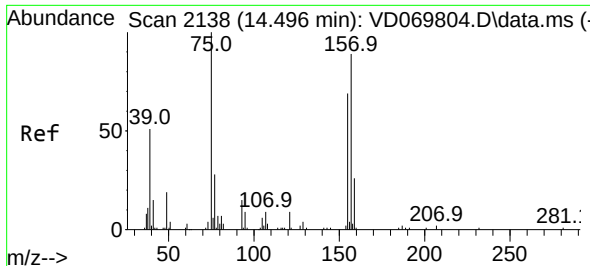
Tgt Ion: 91 Resp: 13632
Ion Ratio Lower Upper
91 100
92 9.2 26.6 79.7#
134 149.1 11.9 35.7#



#90
Hexachloroethane
Concen: 1.501 ug/l
RT: 14.102 min Scan# 2071
Delta R.T. -0.000 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 117 Resp: 4138
Ion Ratio Lower Upper
117 100
201 0.0 31.9 95.5#

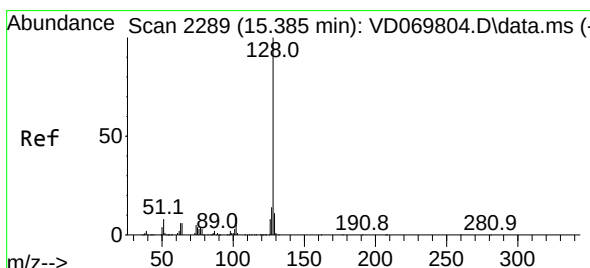
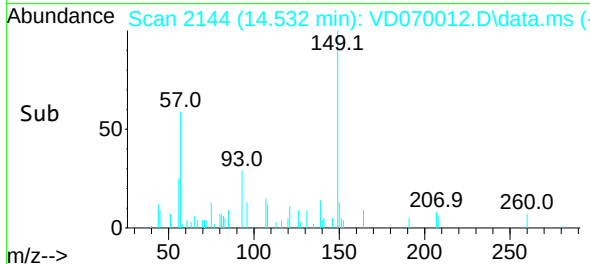
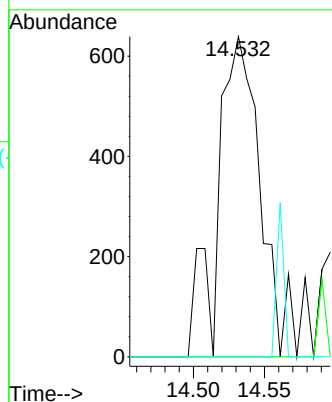
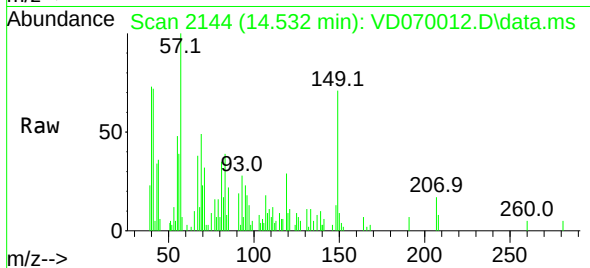




#92
1,2-Dibromo-3-Chloropropane
Concen: 3.074 ug/l
RT: 14.532 min Scan# 2144
Delta R.T. 0.035 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 1288
Ion Ratio Lower Upper
75 100
155 0.0 36.3 108.9#
157 0.0 47.0 141.0#



#95
Naphthalene
Concen: 5.386 ug/l
RT: 15.379 min Scan# 2288
Delta R.T. -0.006 min
Lab File: VD070012.D
Acq: 09 Aug 2021 22:42

Tgt Ion: 128 Resp: 2855
Ion Ratio Lower Upper
128 100
127 9.4 10.6 16.0#
129 8.5 8.6 12.8#

