

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121121\
 Data File : VD071283.D
 Acq On : 11 Dec 2021 21:31
 Operator : VA/SY
 Sample : M5017-49
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 12 18:53:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

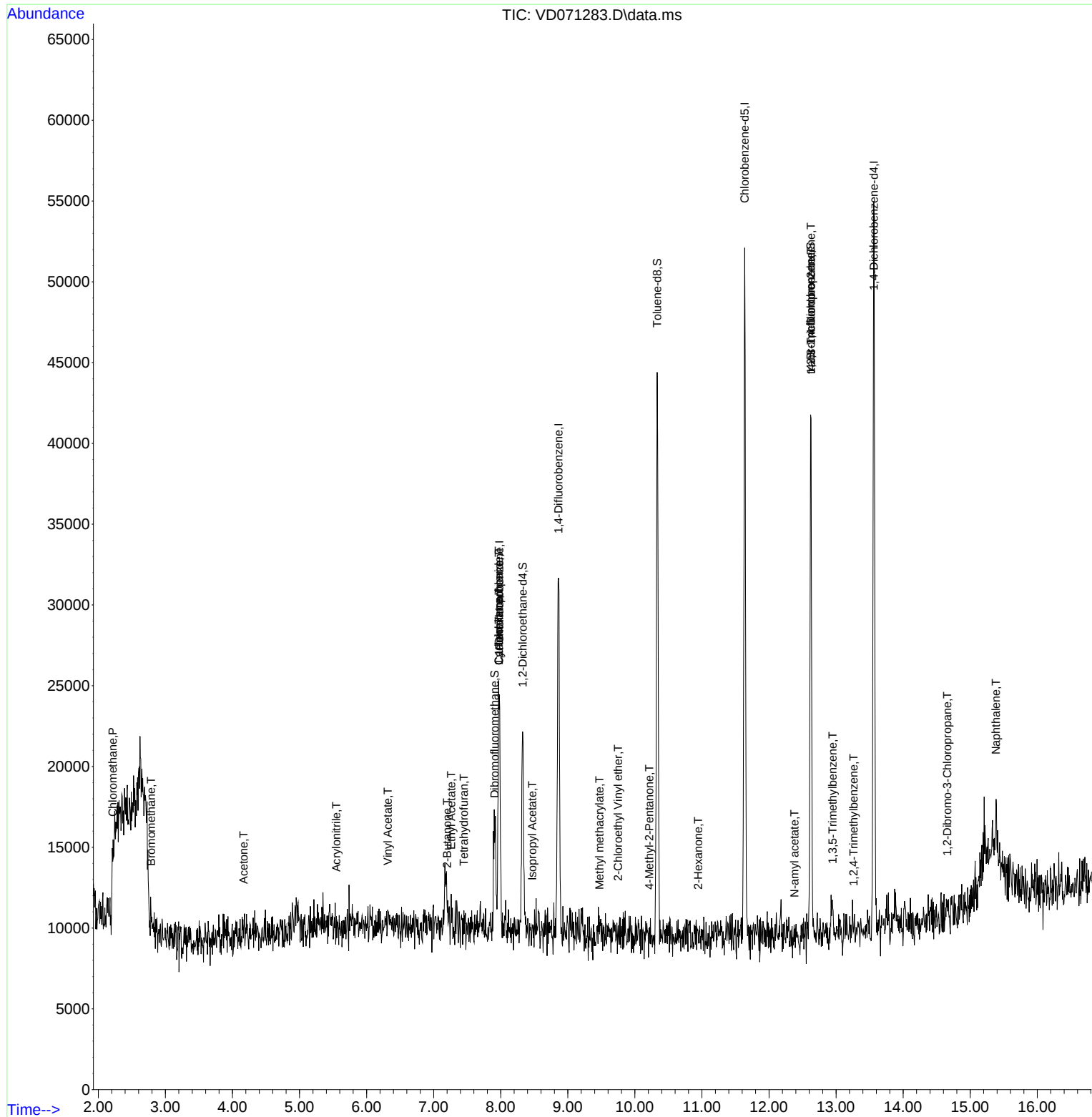
Internal Standards						
1) Pentafluorobenzene	7.979	168	11022	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	17762	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	22089	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	10839	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	9103	70.386	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 140.780%	
35) Dibromofluoromethane	7.908	113	5162	45.638	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 91.280%	
50) Toluene-d8	10.332	98	21898	50.875	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 101.740%	
62) 4-Bromofluorobenzene	12.620	95	10337	69.282	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 138.560%	
Target Compounds						
						Qvalue
3) Chloromethane	2.215	50	569	4.576	ug/l #	61
5) Bromomethane	2.785	94	661	6.610	ug/l #	48
11) Tert butyl alcohol	5.173	59	91	Below Cal	#	71
15) Acrylonitrile	5.550	53	56	2.260	ug/l #	19
16) Acetone	4.168	43	786	50.864	ug/l #	40
20) Methylene Chloride	4.956	84	463	Below Cal	#	64
23) Vinyl Acetate	6.314	43	69	27.510	ug/l #	72
25) 2-Butanone	7.203	43	61	29.723	ug/l #	45
29) Tetrahydrofuran	7.450	42	88	4.285	ug/l #	34
31) Cyclohexane	7.973	56	319	1.450	ug/l #	19
36) 1,1-Dichloropropene	7.973	75	1080	6.506	ug/l #	41
37) Ethyl Acetate	7.261	43	90	1.255	ug/l #	66
38) Carbon Tetrachloride	7.973	117	1273	7.779	ug/l #	36
41) Methacrylonitrile	7.650	41	58	Below Cal	#	21
43) Isopropyl Acetate	8.467	43	93	5.751	ug/l #	47
48) Methyl methacrylate	9.473	41	133	1.895	ug/l #	15
51) 4-Methyl-2-Pentanone	10.214	43	91	31.639	ug/l #	34
58) 2-Chloroethyl Vinyl ether	9.750	63	75	1.366	ug/l #	49
59) 2-Hexanone	10.944	43	76	35.649	ug/l #	22
74) N-amyl acetate	12.379	43	68	5.981	ug/l #	30
76) 1,2,3-Trichloropropane	12.626	75	6300	61.006	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.949	105	698	1.079	ug/l #	28
81) trans-1,4-Dichloro-2-b...	12.626	75	6300	131.985	ug/l #	18
84) 1,2,4-Trimethylbenzene	13.261	105	746	1.181	ug/l	88
92) 1,2-Dibromo-3-Chloropr...	14.655	75	61	2.898	ug/l #	4
95) Naphthalene	15.385	128	2327	7.354	ug/l #	84

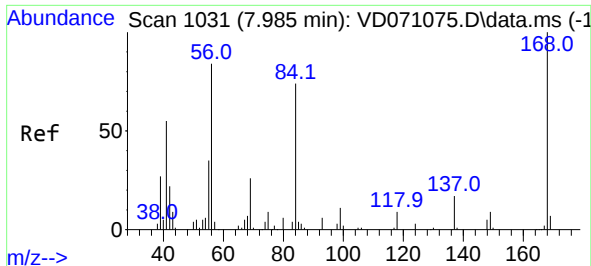
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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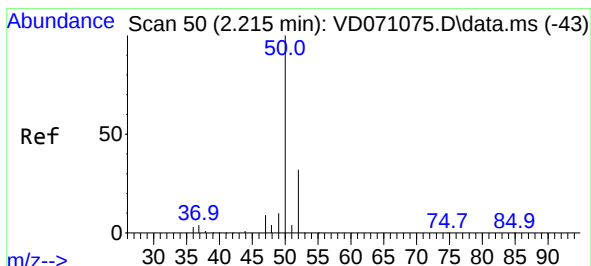
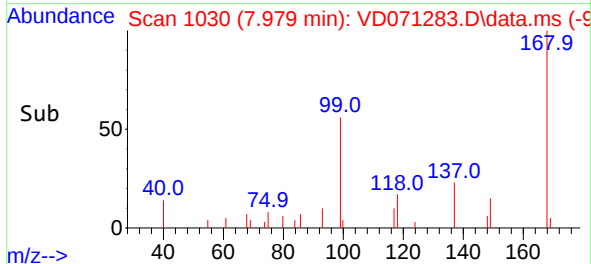
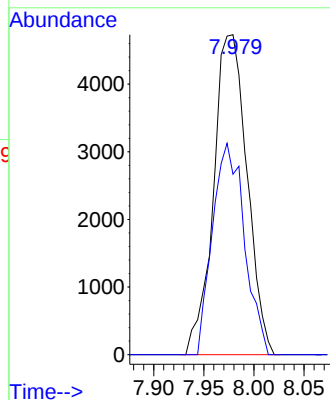
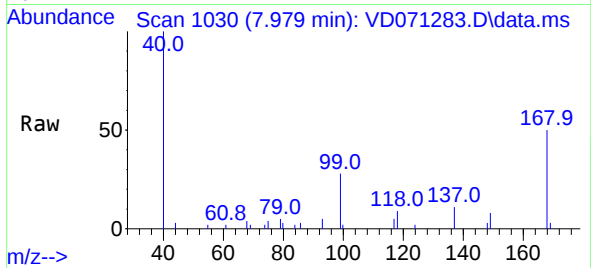




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

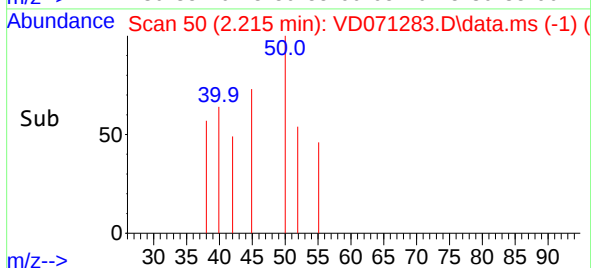
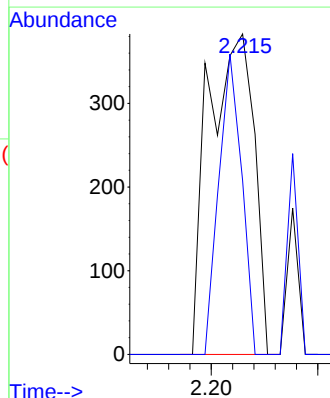
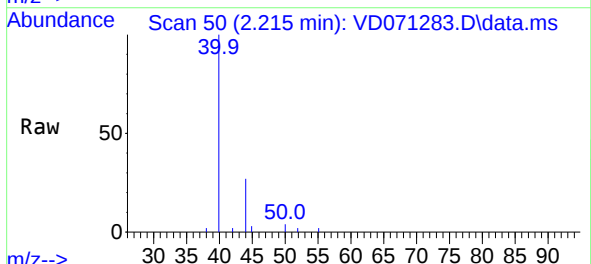
Instrument :
MSVOA_D
ClientSampleId :

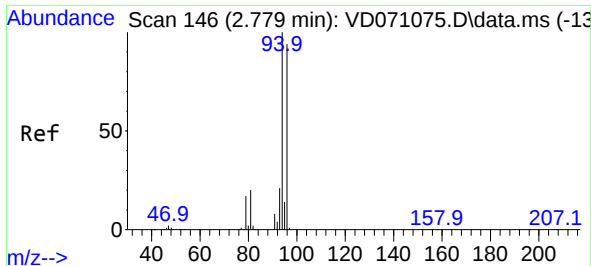
Tgt Ion:168 Resp: 11022
Ion Ratio Lower Upper
168 100
99 56.4 46.6 69.8



#3
Chloromethane
Concen: 4.576 ug/l
RT: 2.215 min Scan# 50
Delta R.T. -0.000 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Tgt Ion: 50 Resp: 569
Ion Ratio Lower Upper
50 100
52 54.3 25.8 38.8#

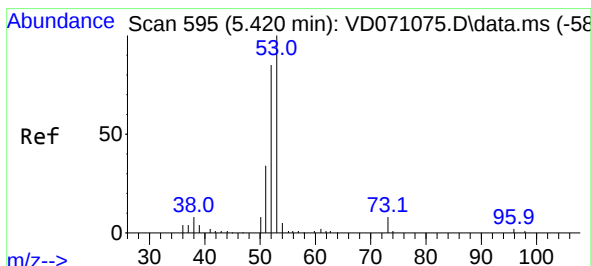
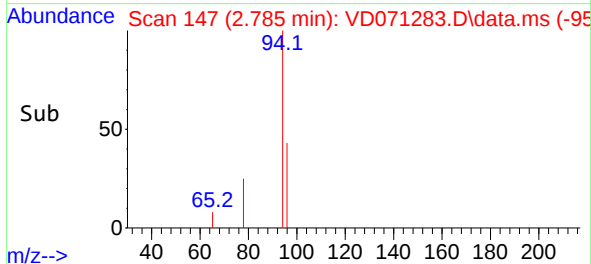
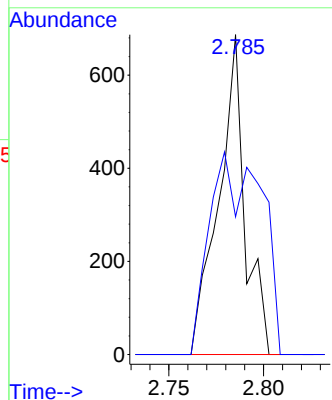
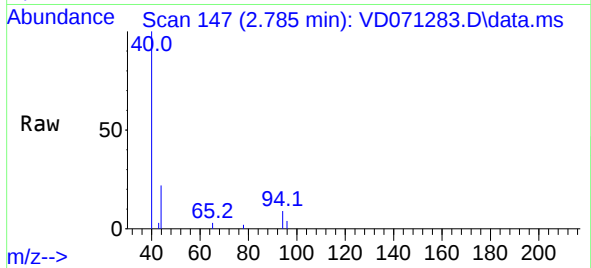




#5
Bromomethane
Concen: 6.610 ug/l
RT: 2.785 min Scan# 14
Delta R.T. 0.006 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

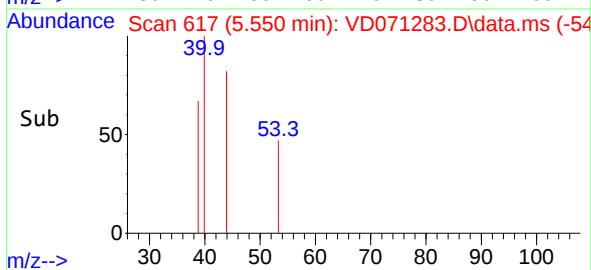
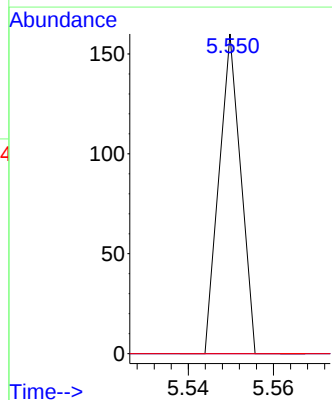
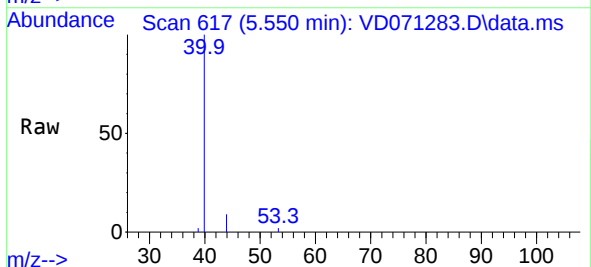
Instrument :
MSVOA_D
ClientSampleId :

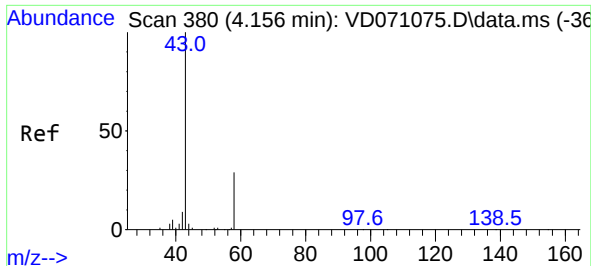
Tgt Ion: 94 Resp: 661
Ion Ratio Lower Upper
94 100
96 43.1 74.8 112.2#



#15
Acrylonitrile
Concen: 2.260 ug/l
RT: 5.550 min Scan# 617
Delta R.T. 0.130 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Tgt Ion: 53 Resp: 56
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#

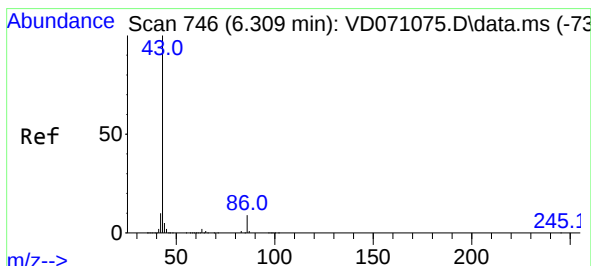
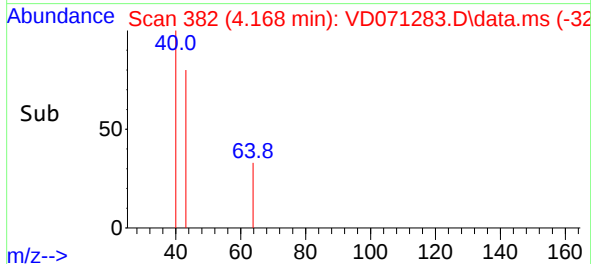
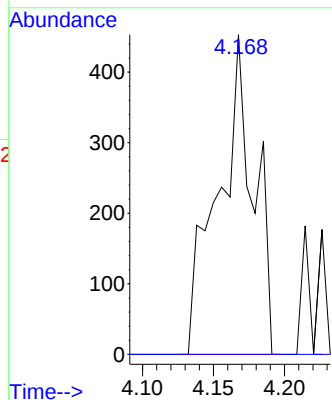
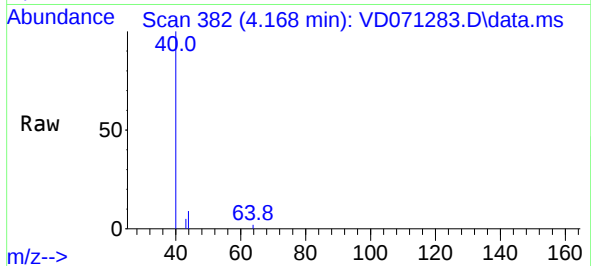




#16
Acetone
Concen: 50.864 ug/l
RT: 4.168 min Scan# 381
Delta R.T. 0.012 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

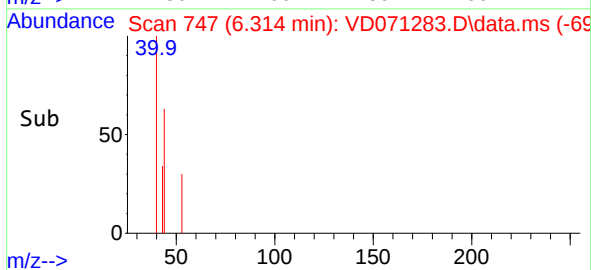
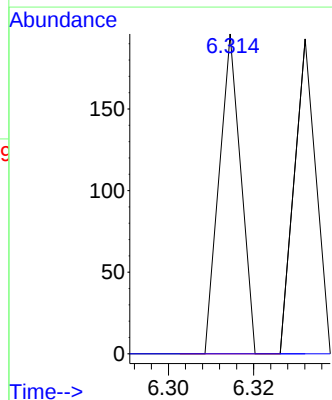
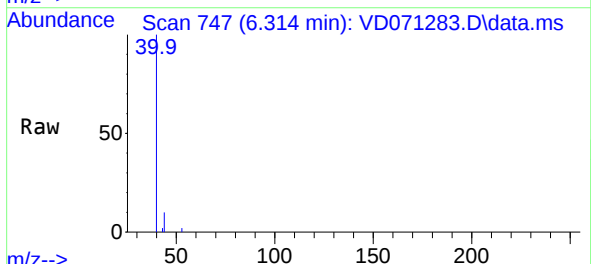
Instrument :
MSVOA_D
ClientSampleId :

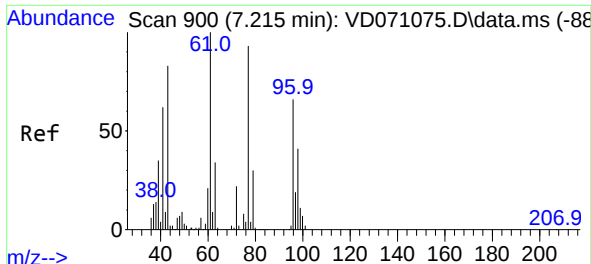
Tgt Ion: 43 Resp: 786
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#23
Vinyl Acetate
Concen: 27.510 ug/l
RT: 6.314 min Scan# 747
Delta R.T. 0.005 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Tgt Ion: 43 Resp: 69
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#





#25

2-Butanone

Concen: 29.723 ug/l

RT: 7.203 min Scan# 89

Delta R.T. -0.012 min

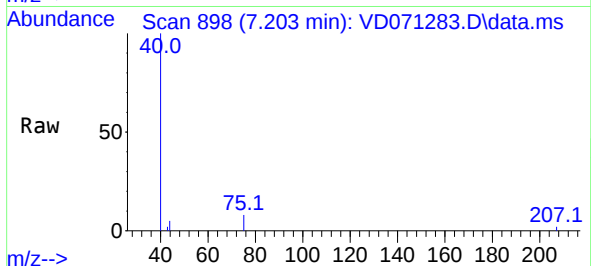
Lab File: VD071283.D

Acq: 11 Dec 2021 21:31

Instrument :

MSVOA_D

ClientSampleId :

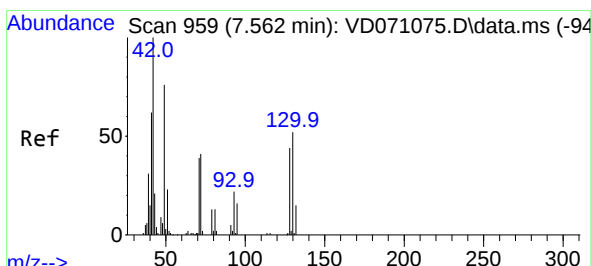
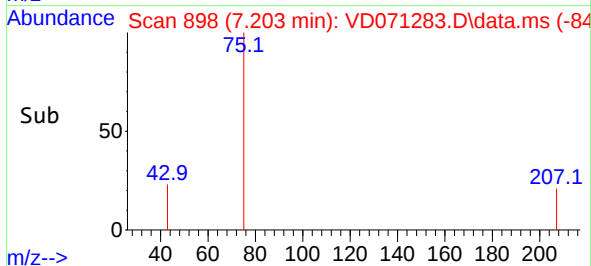
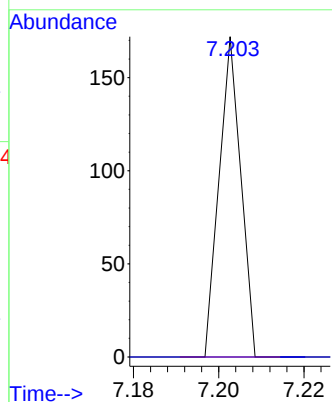


Tgt Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



#29

Tetrahydrofuran

Concen: 4.285 ug/l

RT: 7.450 min Scan# 940

Delta R.T. -0.112 min

Lab File: VD071283.D

Acq: 11 Dec 2021 21:31

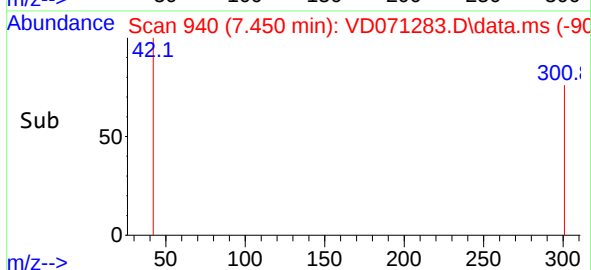
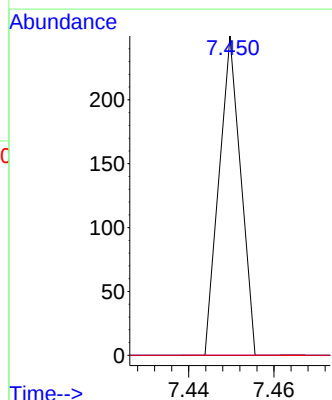
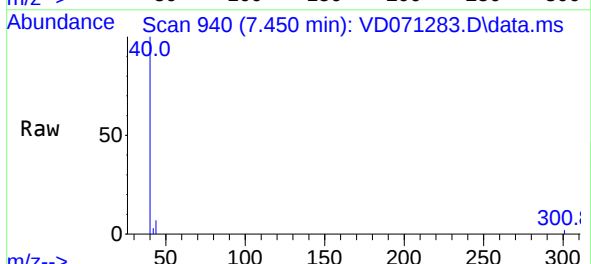
Tgt Ion: 42 Resp: 88

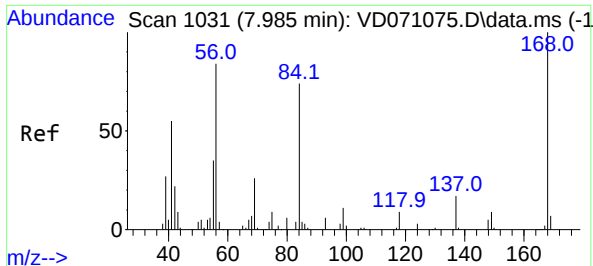
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

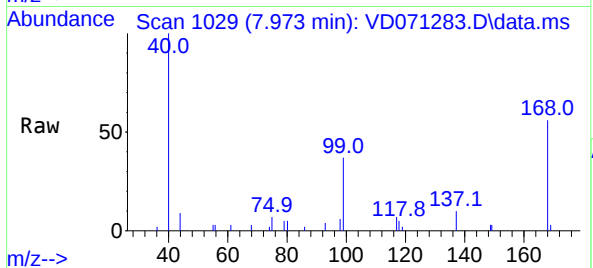
71 0.0 32.7 49.1#



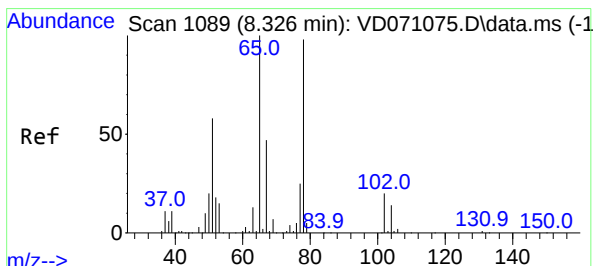
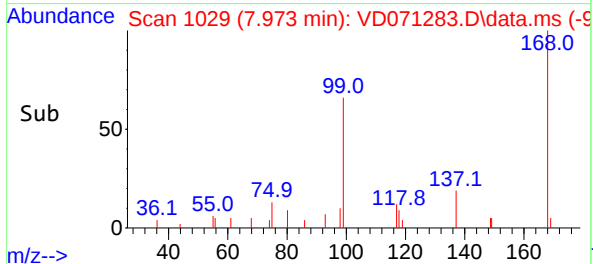
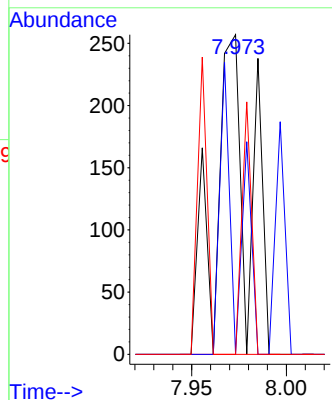


#31
Cyclohexane
Concen: 1.450 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Instrument :
MSVOA_D
ClientSampleId :

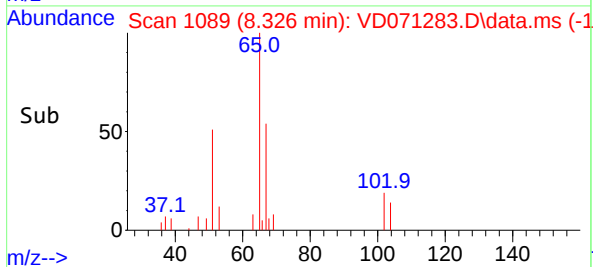
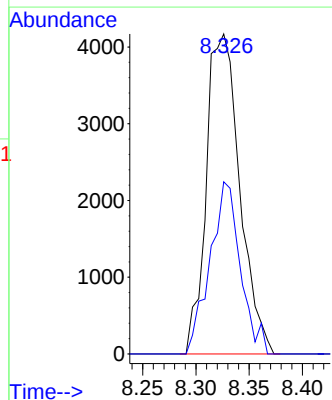
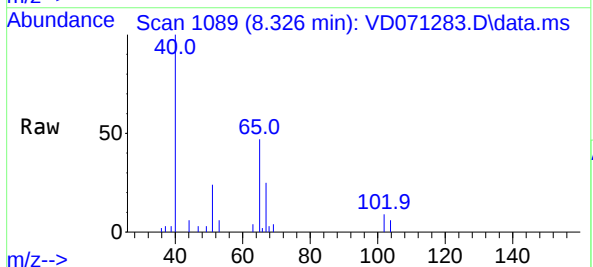


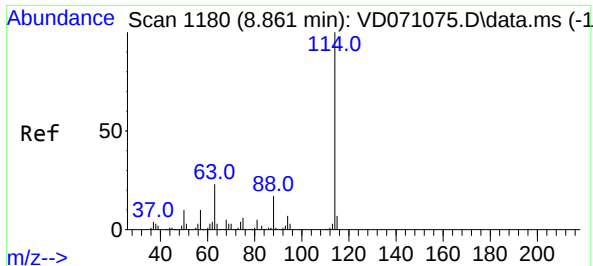
Tgt Ion: 56 Resp: 319
Ion Ratio Lower Upper
56 100
69 0.0 25.9 38.9#
84 0.0 64.3 96.5#



#33
1,2-Dichloroethane-d4
Concen: 70.386 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Tgt Ion: 65 Resp: 9103
Ion Ratio Lower Upper
65 100
67 48.8 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD071283.D

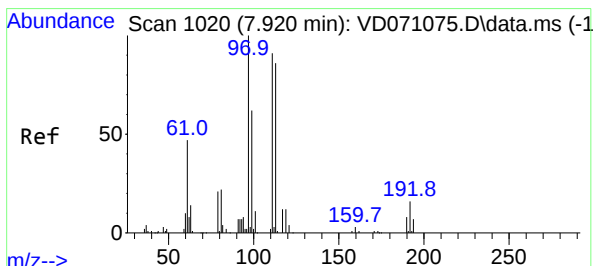
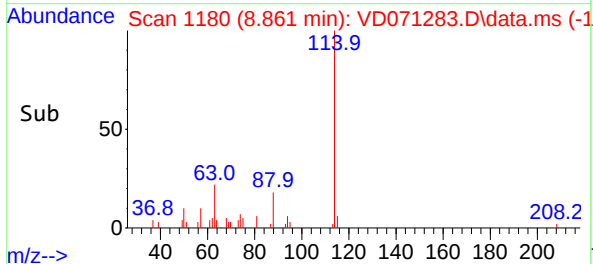
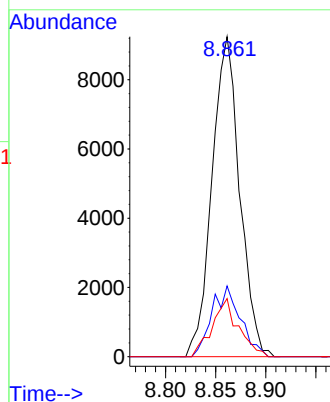
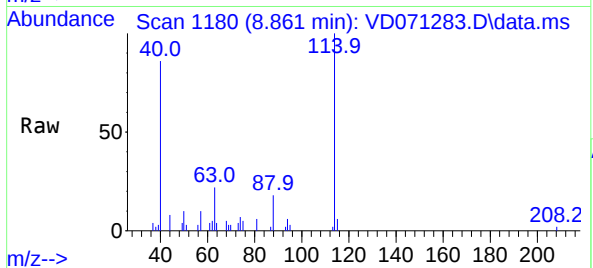
Acq: 11 Dec 2021 21:31

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:114	Resp:	17762
Ion Ratio	Lower	Upper
114	100	
63	22.1	0.0 41.8
88	18.2	0.0 32.8



#35

Dibromofluoromethane

Concen: 45.638 ug/l

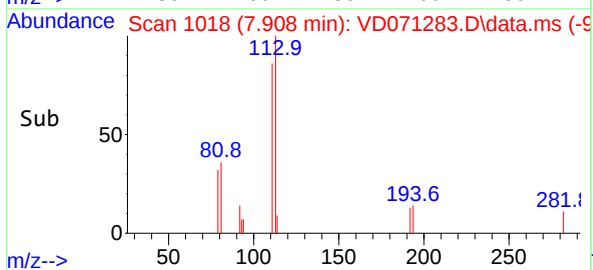
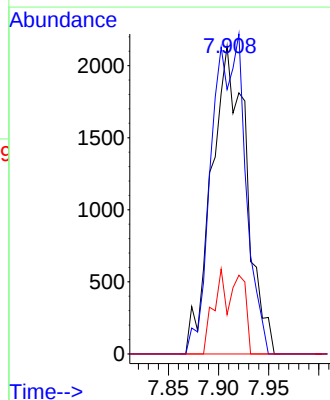
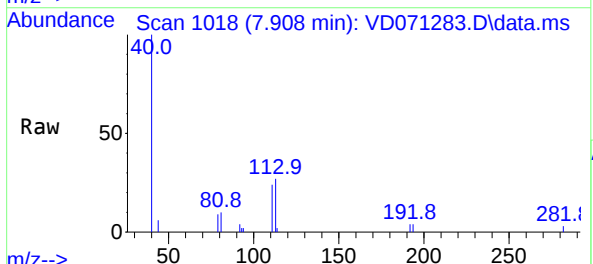
RT: 7.908 min Scan# 1018

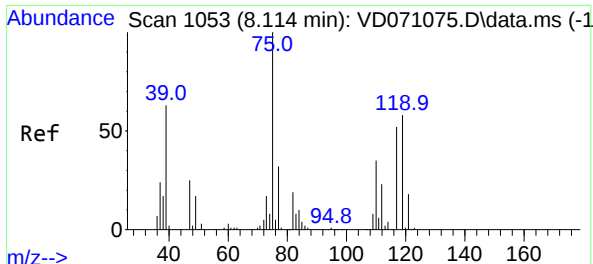
Delta R.T. -0.012 min

Lab File: VD071283.D

Acq: 11 Dec 2021 21:31

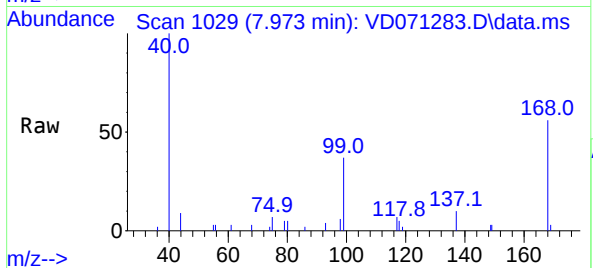
Tgt Ion:113	Resp:	5162
Ion Ratio	Lower	Upper
113	100	
111	0.0	82.0 123.0#
192	10.2	15.2 22.8#



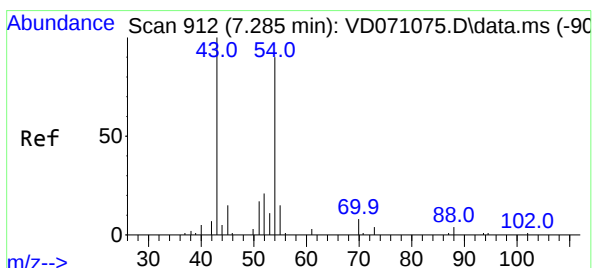
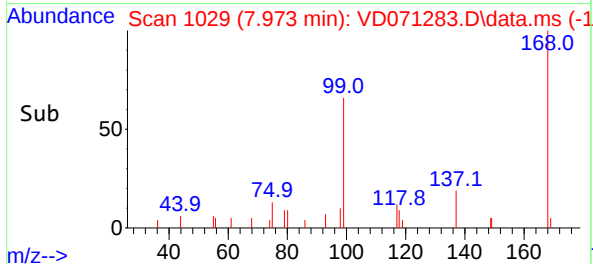
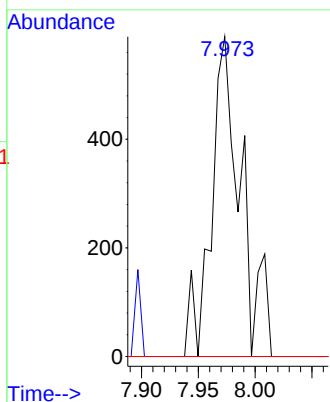


#36
1,1-Dichloropropene
Concen: 6.506 ug/l
RT: 7.973 min Scan# 1080
Delta R.T. -0.141 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Instrument :
MSVOA_D
ClientSampleId :

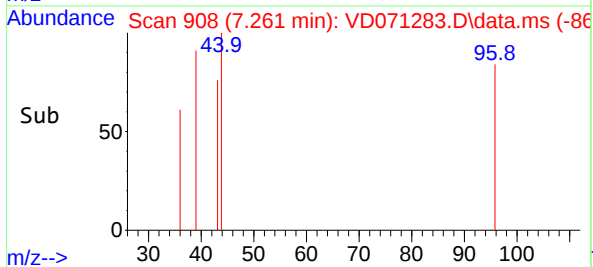
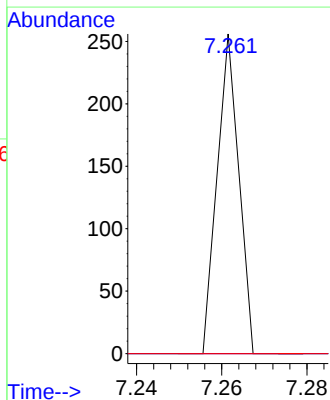
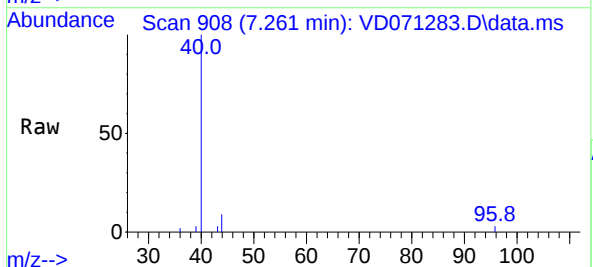


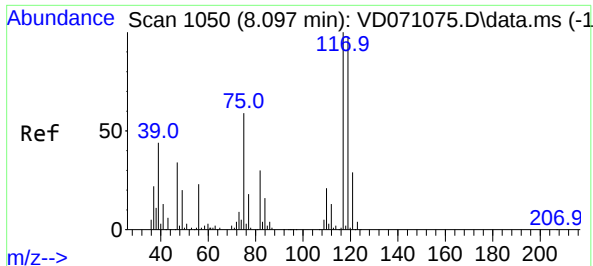
Tgt Ion: 75 Resp: 1080
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#



#37
Ethyl Acetate
Concen: 1.255 ug/l
RT: 7.261 min Scan# 908
Delta R.T. -0.024 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

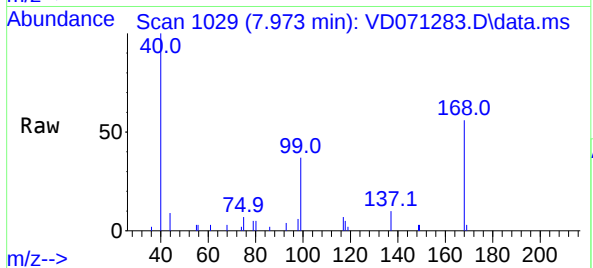
Tgt Ion: 43 Resp: 90
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 8.7 13.1#



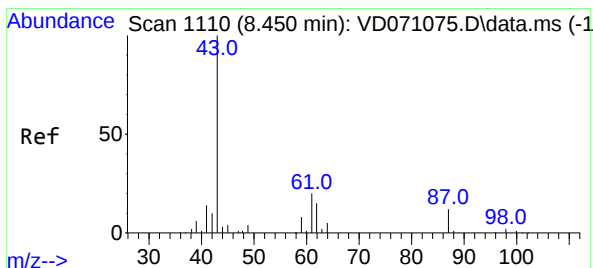
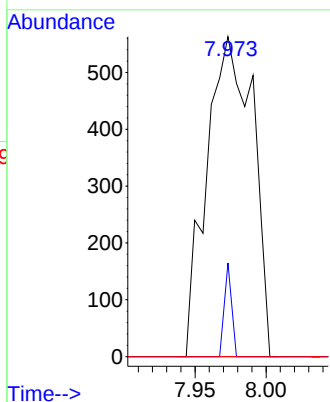
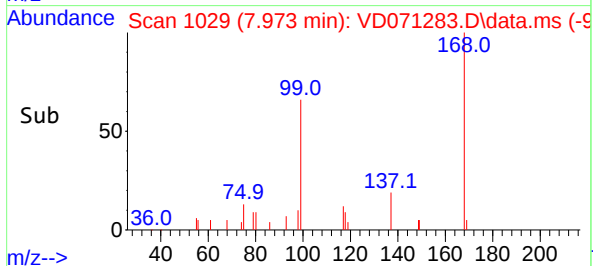


#38
Carbon Tetrachloride
Concen: 7.779 ug/l
RT: 7.973 min Scan# 1107
Delta R.T. -0.124 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

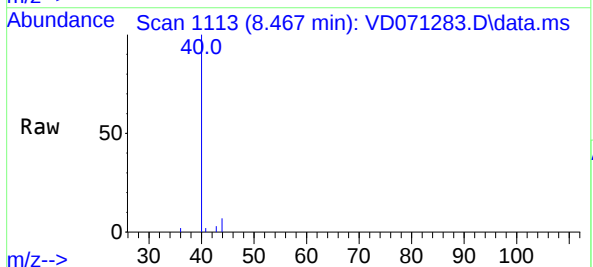
Instrument :
MSVOA_D
ClientSampleId :



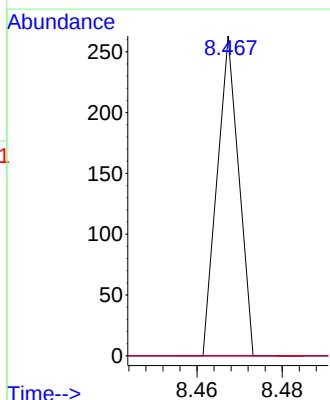
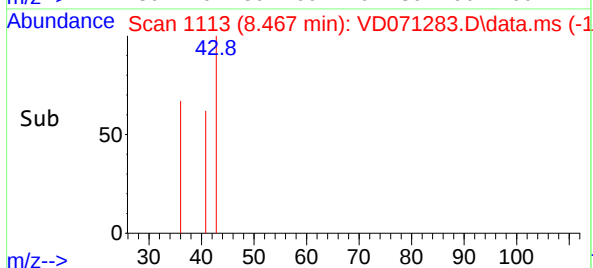
Tgt Ion:117 Resp: 1273
Ion Ratio Lower Upper
117 100
119 29.3 75.8 113.6#
121 0.0 23.6 35.4#

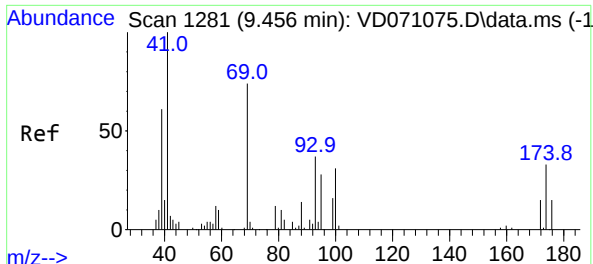


#43
Isopropyl Acetate
Concen: 5.751 ug/l
RT: 8.467 min Scan# 1113
Delta R.T. 0.017 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31



Tgt Ion: 43 Resp: 93
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#





#48

Methyl methacrylate

Concen: 1.895 ug/l

RT: 9.473 min Scan# 11

Delta R.T. 0.017 min

Lab File: VD071283.D

Acq: 11 Dec 2021 21:31

Instrument :

MSVOA_D

ClientSampleId :

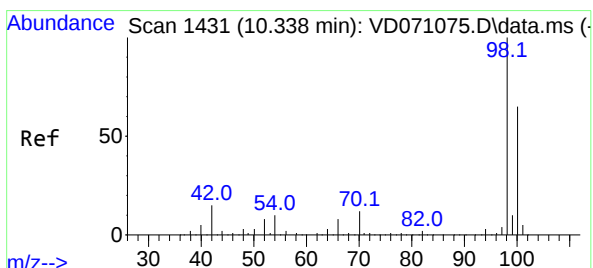
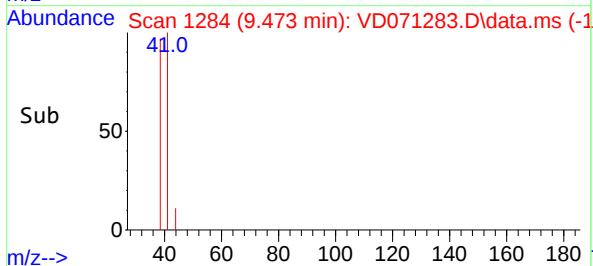
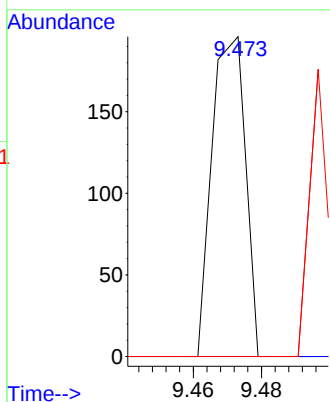
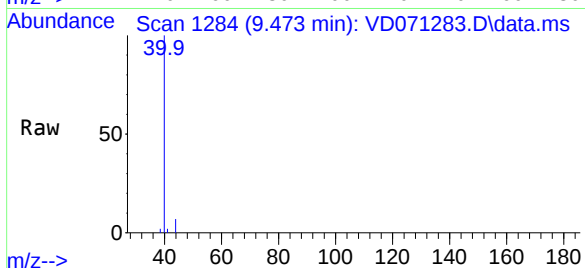
Tgt Ion: 41 Resp: 133

Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 0.0 35.6 53.4#



#50

Toluene-d8

Concen: 50.875 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD071283.D

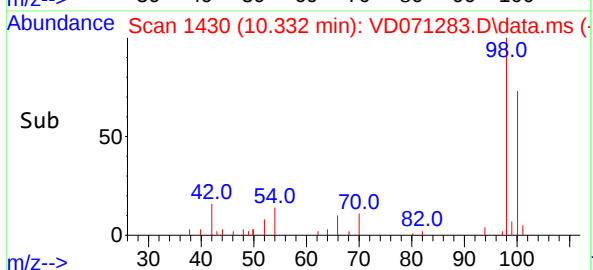
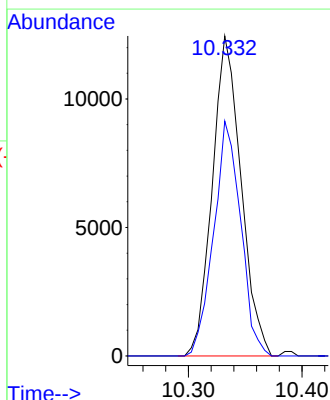
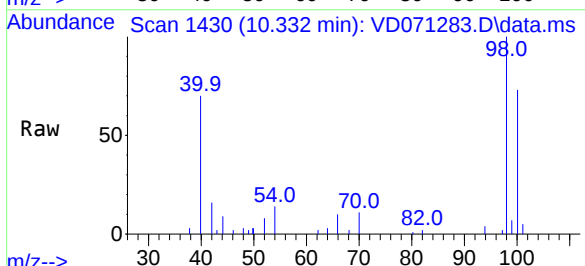
Acq: 11 Dec 2021 21:31

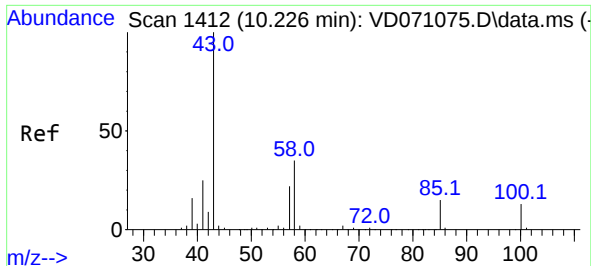
Tgt Ion: 98 Resp: 21898

Ion Ratio Lower Upper

98 100

100 69.0 51.8 77.6

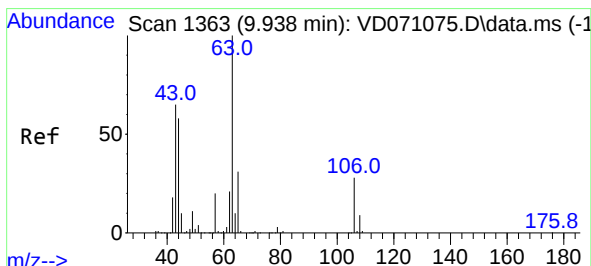
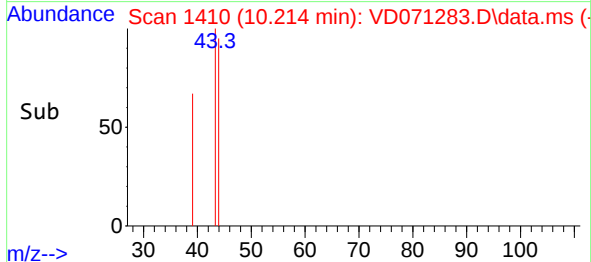
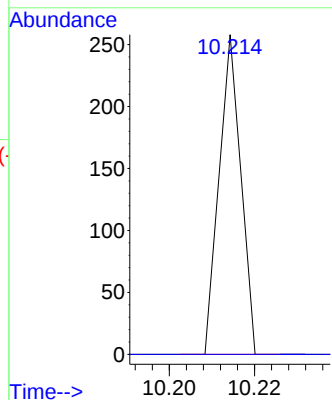
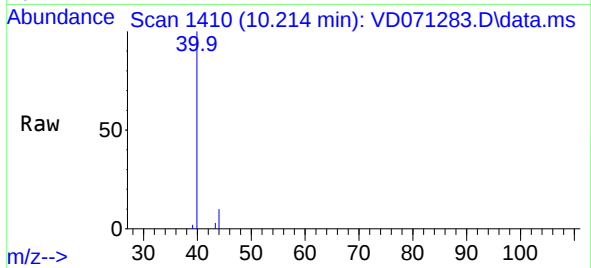




#51
4-Methyl-2-Pentanone
Concen: 31.639 ug/l
RT: 10.214 min Scan# 1412
Delta R.T. -0.012 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

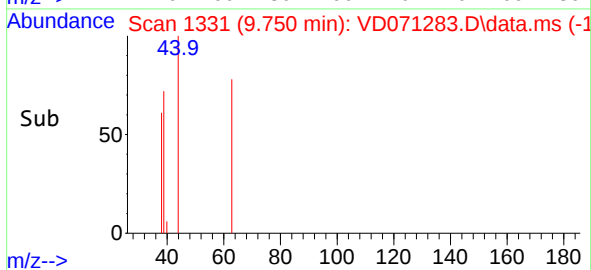
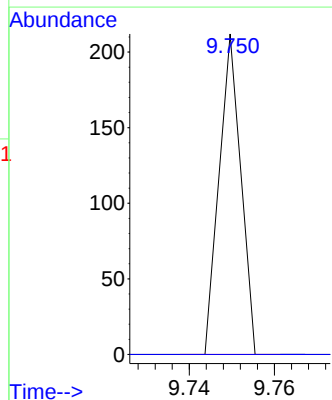
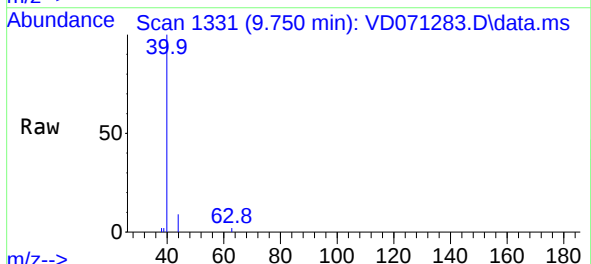
Instrument :
MSVOA_D
ClientSampleId :

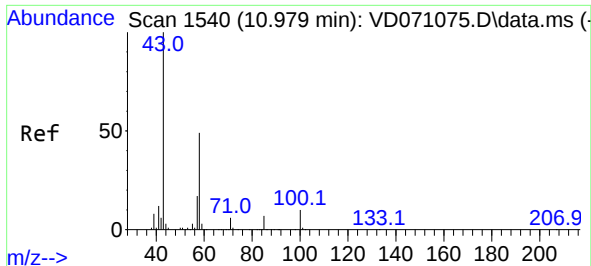
Tgt Ion: 43 Resp: 91
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#58
2-Chloroethyl Vinyl ether
Concen: 1.366 ug/l
RT: 9.750 min Scan# 1331
Delta R.T. -0.188 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

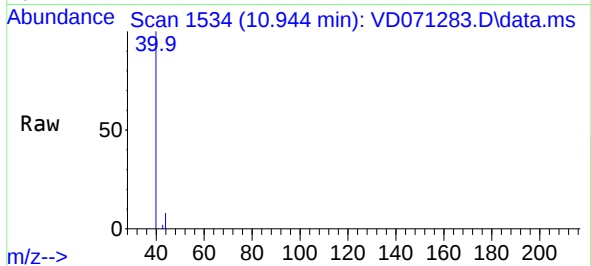
Tgt Ion: 63 Resp: 75
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.4#



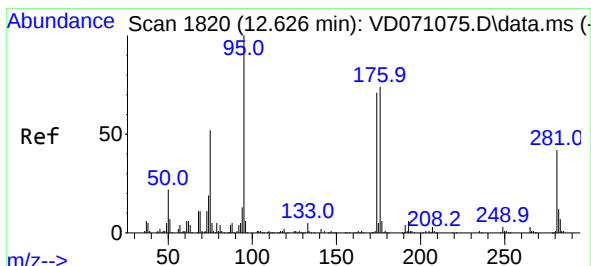
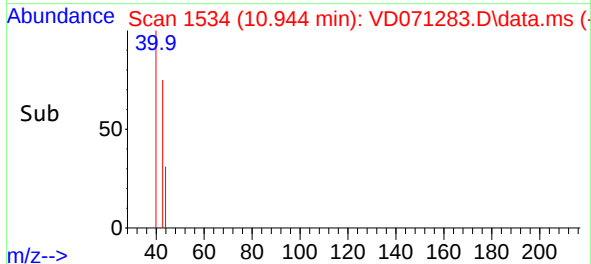
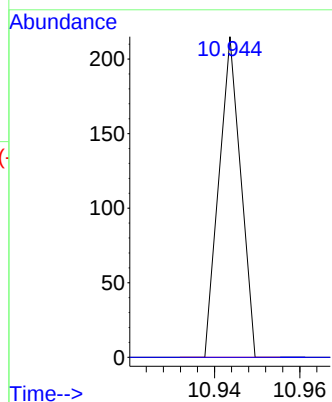


#59
2-Hexanone
Concen: 35.649 ug/l
RT: 10.944 min Scan# 11
Delta R.T. -0.035 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Instrument :
MSVOA_D
ClientSampleId :

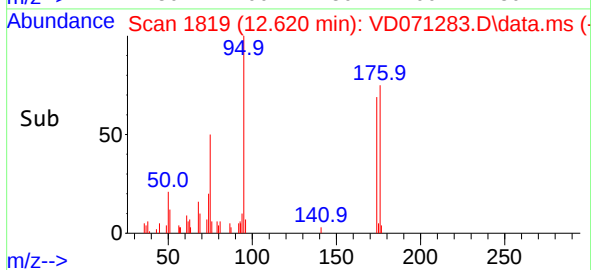
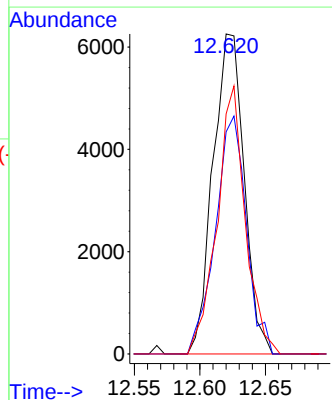
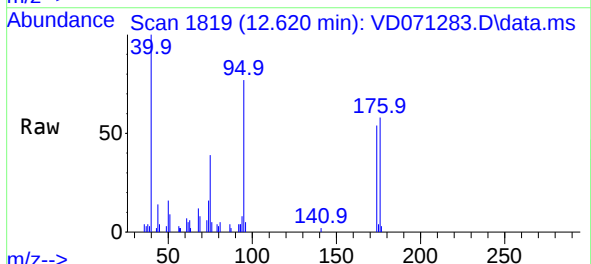


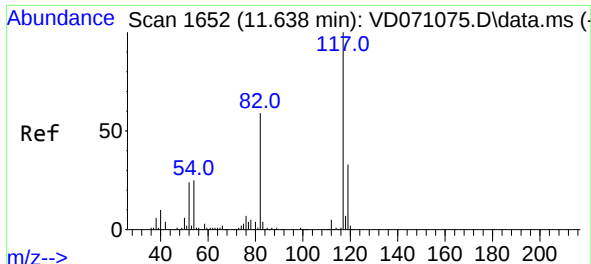
Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 69.282 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

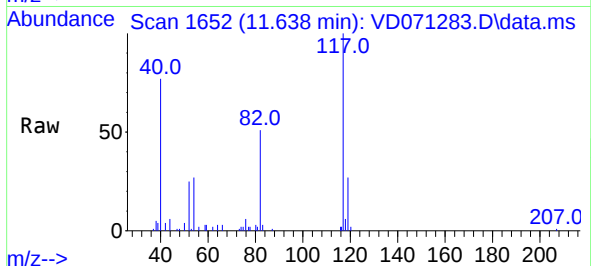
Tgt Ion: 95 Resp: 10337
Ion Ratio Lower Upper
95 100
174 73.9 0.0 159.4
176 76.1 0.0 154.0



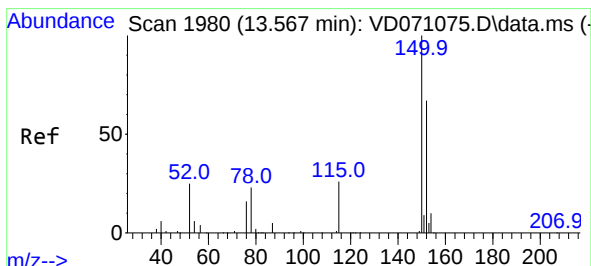
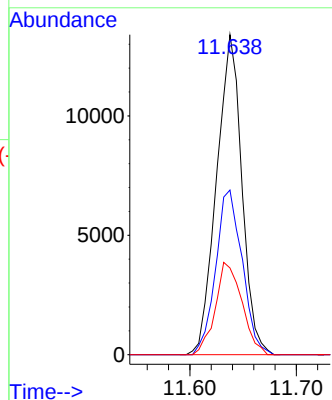


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Instrument :
MSVOA_D
ClientSampleId :

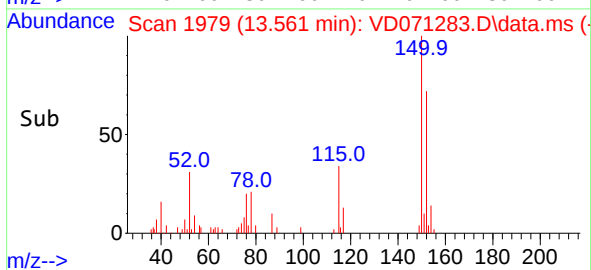
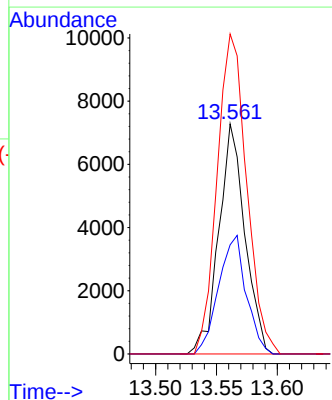
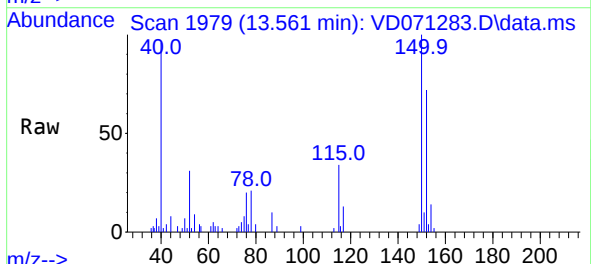


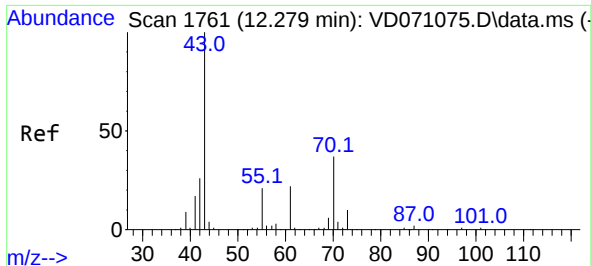
Tgt Ion:	117	Resp:	22089
Ion Ratio	100	Lower	Upper
117	100		
82	51.5	44.7	67.1
119	27.1	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

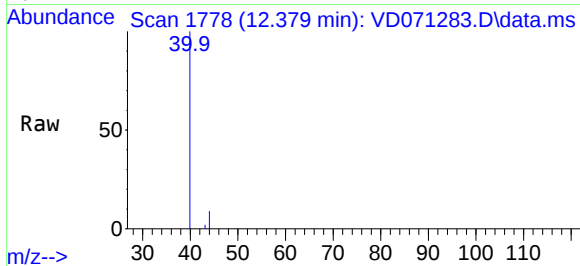
Tgt Ion:	152	Resp:	10839
Ion Ratio	100	Lower	Upper
152	100		
115	54.6	29.8	89.3
150	157.1	0.0	349.2



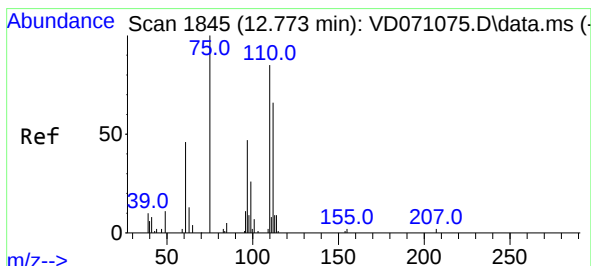
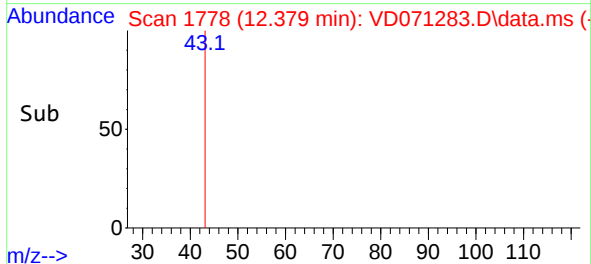
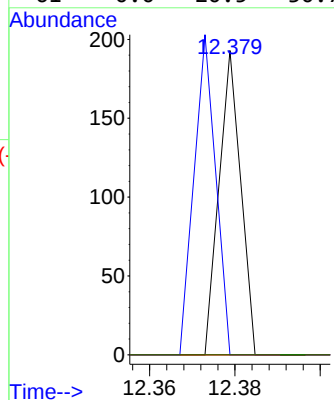


#74
N-amy1 acetate
Concen: 5.981 ug/l
RT: 12.379 min Scan# 11
Delta R.T. 0.100 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Instrument :
MSVOA_D
ClientSampleId :

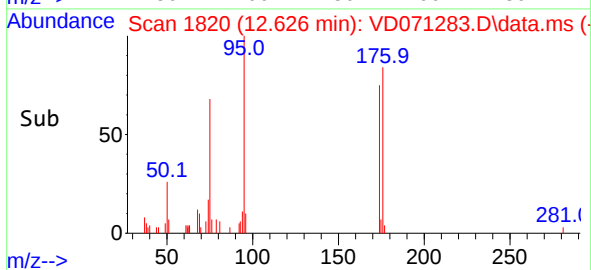
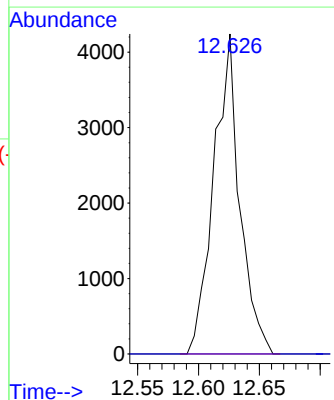
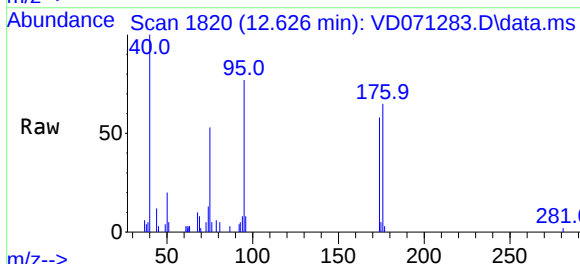


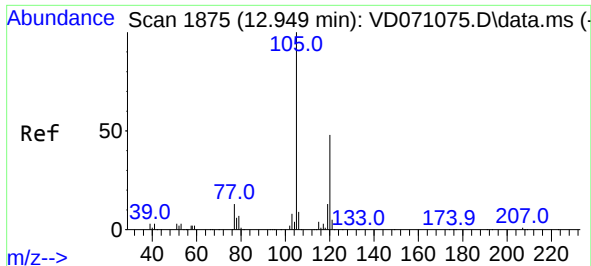
Tgt Ion: 43	Resp: 68
Ion Ratio	Lower Upper
43 100	
70 105.9	36.6 55.0#
55 0.0	22.5 33.7#
61 0.0	20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 61.006 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Tgt Ion: 75	Resp: 6300
Ion Ratio	Lower Upper
75 100	
77 0.0	158.4 475.3#

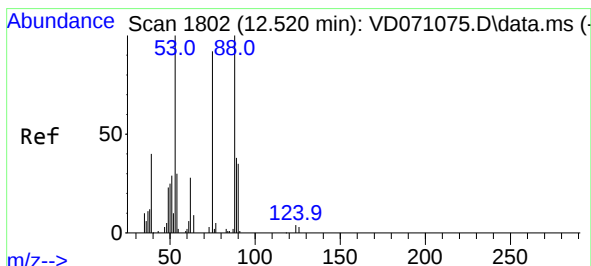
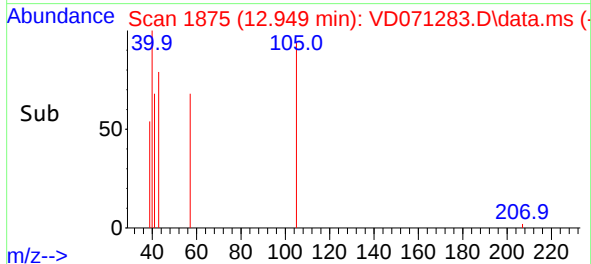
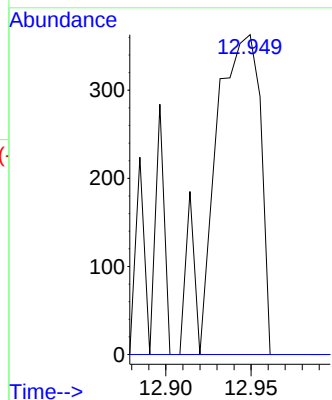
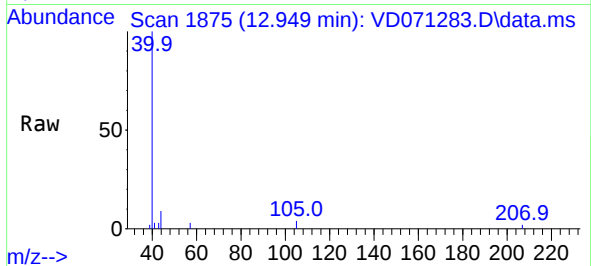




#80
1,3,5-Trimethylbenzene
Concen: 1.079 ug/l
RT: 12.949 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

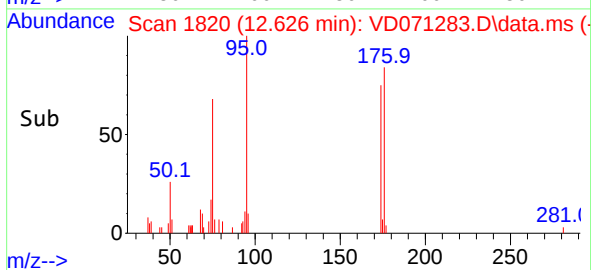
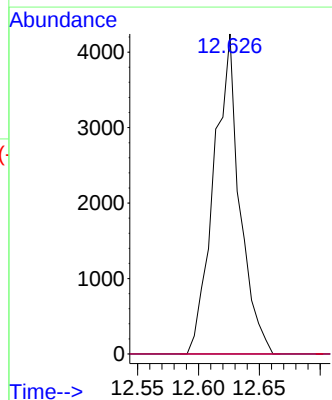
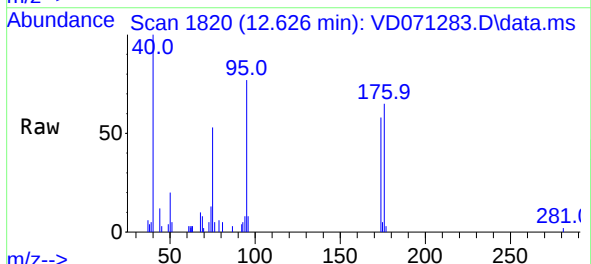
Instrument :
MSVOA_D
ClientSampleId :

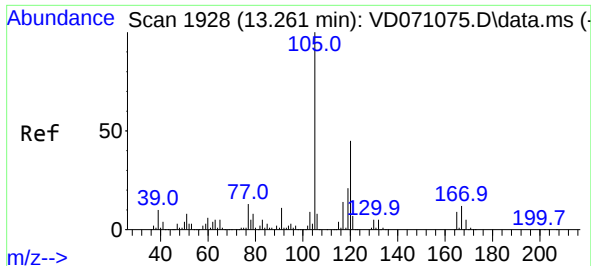
Tgt Ion:105 Resp: 698
Ion Ratio Lower Upper
105 100
120 0.0 24.6 73.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 131.985 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Tgt Ion: 75 Resp: 6300
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

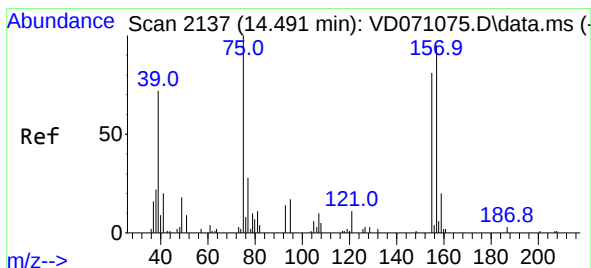
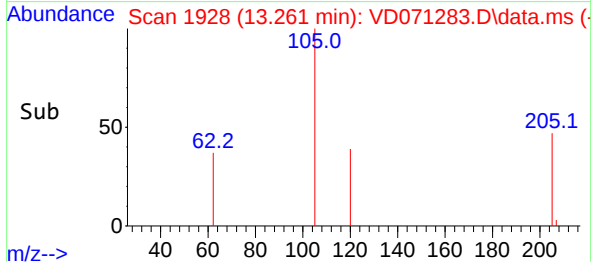
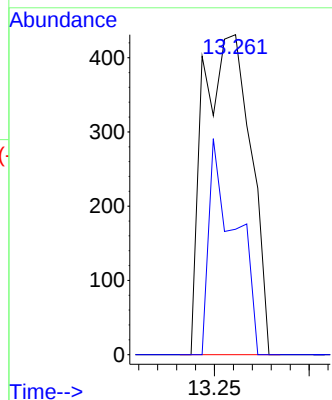
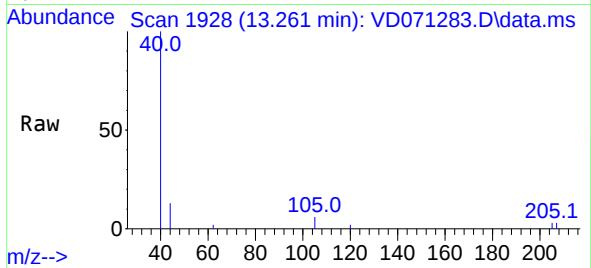




#84
1,2,4-Trimethylbenzene
Concen: 1.181 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. 0.000 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

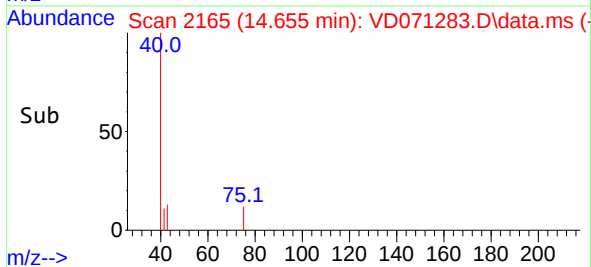
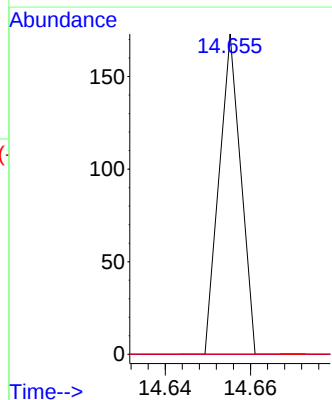
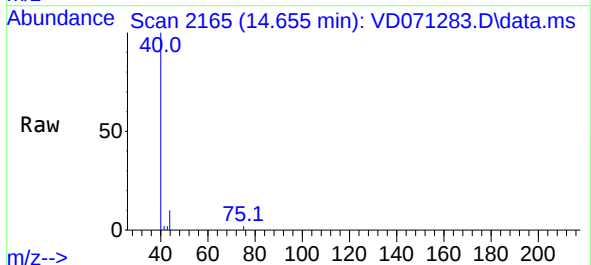
Instrument :
MSVOA_D
ClientSampleId :

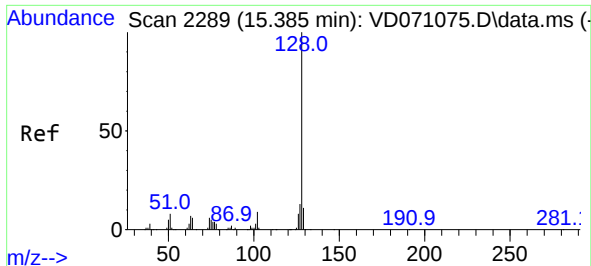
Tgt Ion:105 Resp: 746
Ion Ratio Lower Upper
105 100
120 37.9 22.9 68.7



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.898 ug/l
RT: 14.655 min Scan# 2165
Delta R.T. 0.164 min
Lab File: VD071283.D
Acq: 11 Dec 2021 21:31

Tgt Ion: 75 Resp: 61
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#





#95

Naphthalene

Concen: 7.354 ug/l

RT: 15.385 min Scan# 21

Delta R.T. -0.000 min

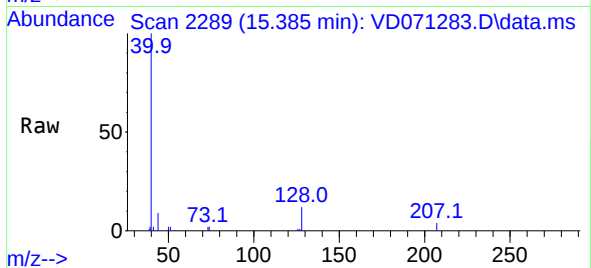
Lab File: VD071283.D

Acq: 11 Dec 2021 21:31

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:128 Resp: 2327

Ion Ratio Lower Upper

128 100

127 5.0 10.7 16.1#

129 7.5 8.7 13.1#

