

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD091321\
 Data File : VD070330.D
 Acq On : 13 Sep 2021 16:56
 Operator : VA/SY
 Sample : M3711-01
 Misc : 5.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-04-091021

Quant Time: Sep 14 00:54:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D090821S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 09 03:07:09 2021
 Response via : Initial Calibration

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

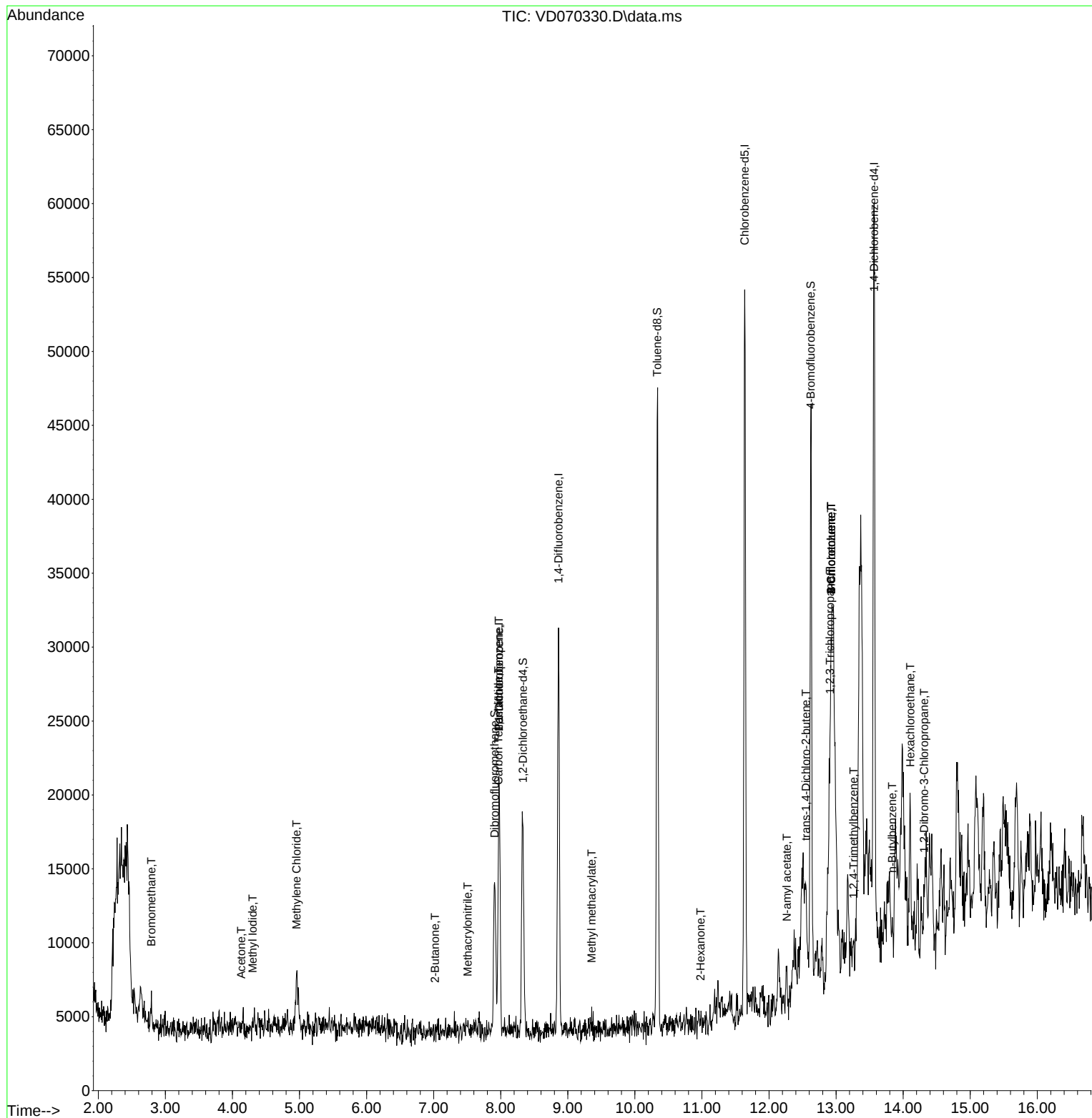
Internal Standards						
1) Pentafluorobenzene	7.973	168	12278	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	21518	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	28705	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	14223	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	12673	80.386	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 160.780%	
35) Dibromofluoromethane	7.909	113	7784	50.820	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.640%	
50) Toluene-d8	10.332	98	28571	51.376	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 102.760%	
62) 4-Bromofluorobenzene	12.620	95	12547	64.557	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 129.120%	
Target Compounds						Qvalue
3) Chloromethane	2.215	50	512	Below Cal	#	1
5) Bromomethane	2.791	94	948	3.210	ug/l #	20
6) Chloroethane	2.750	64	81	Below Cal	#	43
10) Methyl Iodide	4.303	142	112	1.751	ug/l #	39
16) Acetone	4.132	43	349	12.399	ug/l #	36
18) Methyl Acetate	4.650	43	61	Below Cal	#	48
20) Methylene Chloride	4.956	84	1509	1.566	ug/l #	82
25) 2-Butanone	7.020	43	55	1.468	ug/l #	47
36) 1,1-Dichloropropene	7.973	75	1231	5.352	ug/l #	41
38) Carbon Tetrachloride	7.967	117	1309	5.755	ug/l #	12
41) Methacrylonitrile	7.509	41	62	1.370	ug/l #	16
48) Methyl methacrylate	9.356	41	350	4.767	ug/l #	10
59) 2-Hexanone	10.979	43	207	3.770	ug/l #	20
74) N-amyl acetate	12.267	43	801	3.686	ug/l #	37
76) 1,2,3-Trichloropropane	12.908	75	212	1.474	ug/l #	14
77) Bromobenzene	12.926	156	16592	72.101	ug/l #	1
79) 2-Chlorotoluene	12.926	91	997	1.321	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.549	75	257	4.476	ug/l #	17
82) 4-Chlorotoluene	12.926	91	997	1.252	ug/l	88
84) 1,2,4-Trimethylbenzene	13.261	105	1043	1.230	ug/l	74
89) n-Butylbenzene	13.838	91	1281	1.457	ug/l #	61
90) Hexachloroethane	14.108	117	904	4.479	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.314	75	56	1.750	ug/l #	1

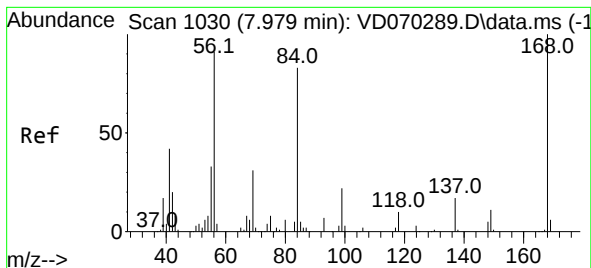
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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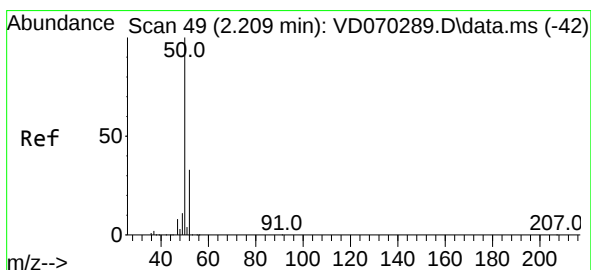
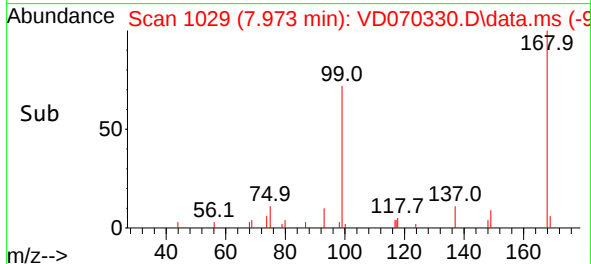
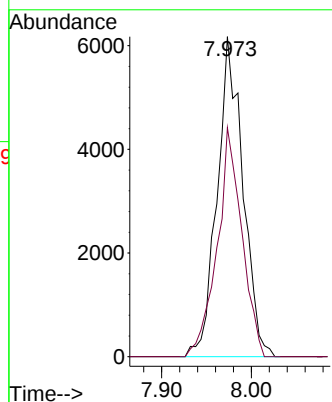
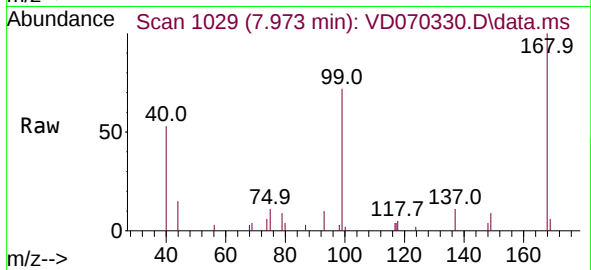




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

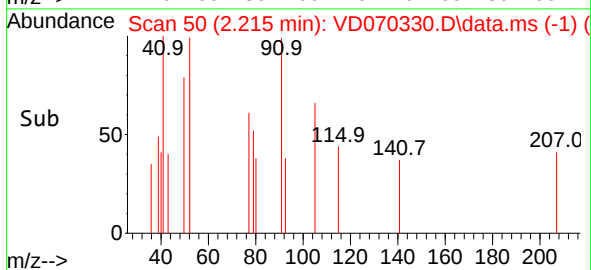
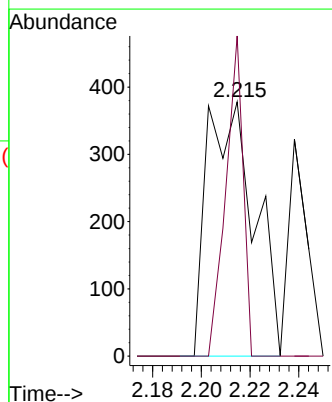
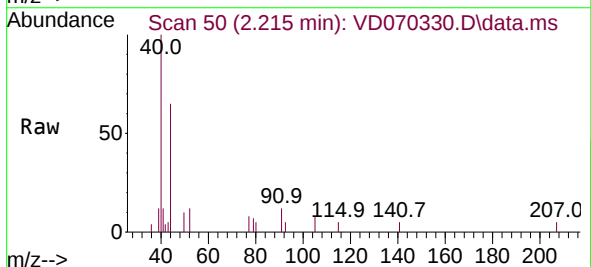
Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

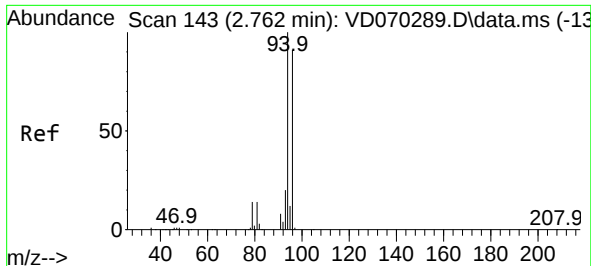
Tgt Ion:168 Resp: 12278
Ion Ratio Lower Upper
168 100
99 71.6 50.8 76.2



#3
Chloromethane
Concen: Below Cal
RT: 2.215 min Scan# 50
Delta R.T. 0.006 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion: 50 Resp: 512
Ion Ratio Lower Upper
50 100
52 125.9 26.2 39.2#

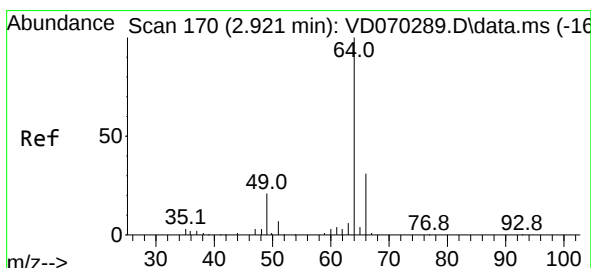
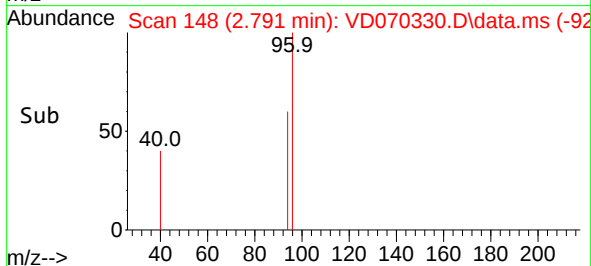
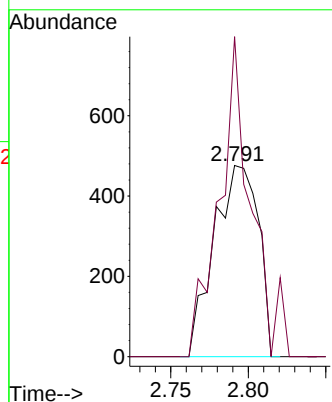
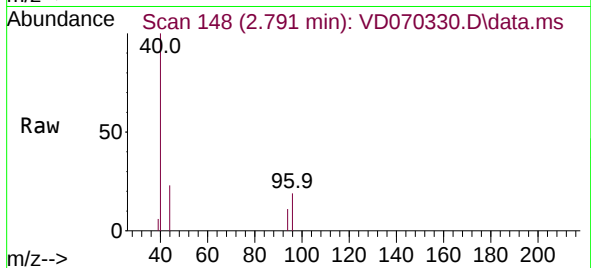




#5
Bromomethane
Concen: 3.210 ug/l
RT: 2.791 min Scan# 148
Delta R.T. 0.029 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

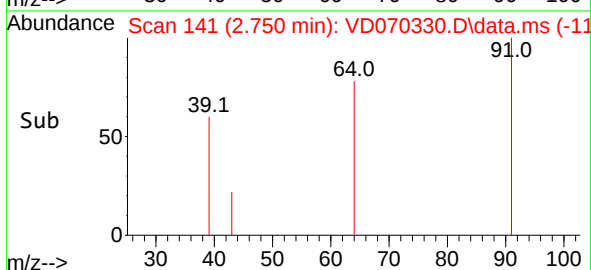
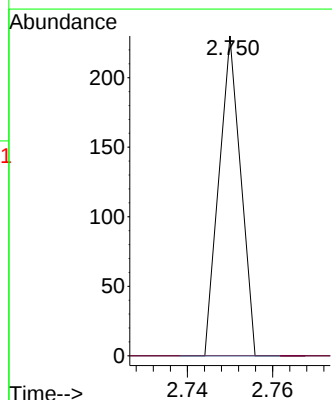
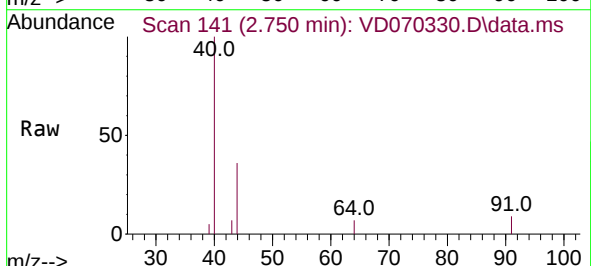
Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

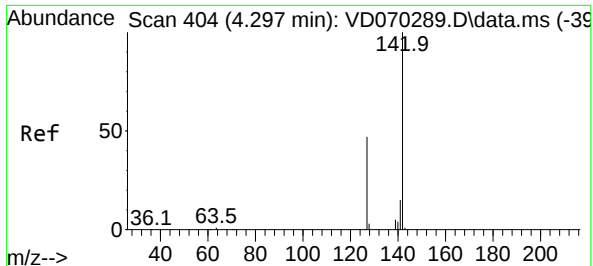
Tgt Ion: 94 Resp: 948
Ion Ratio Lower Upper
94 100
96 167.4 73.0 109.6#



#6
Chloroethane
Concen: Below Cal
RT: 2.750 min Scan# 141
Delta R.T. -0.171 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion: 64 Resp: 81
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.4#





#10

Methyl Iodide

Concen: 1.751 ug/l

RT: 4.303 min Scan# 405

Delta R.T. 0.006 min

Lab File: VD070330.D

Acq: 13 Sep 2021 16:56

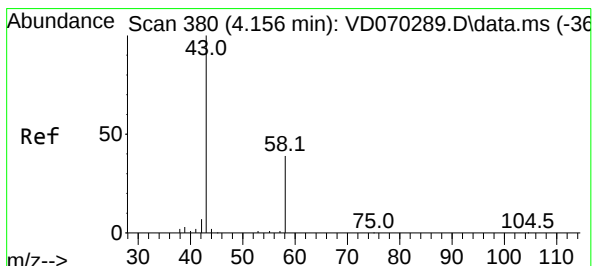
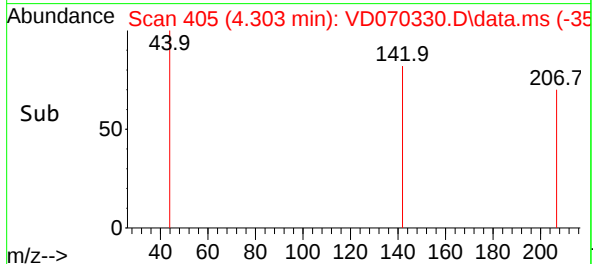
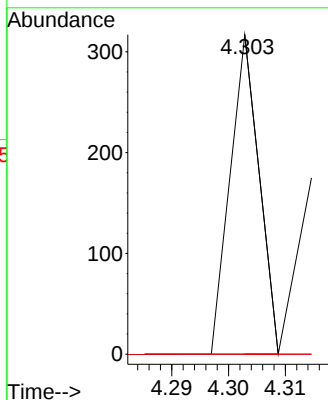
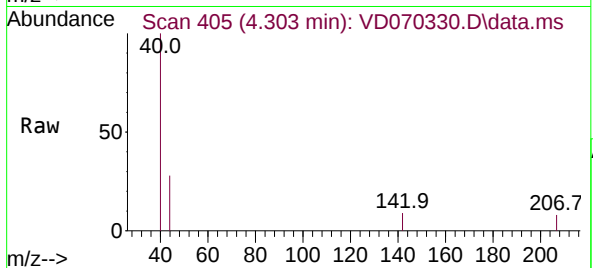
Instrument :

MSVOA_D

ClientSampleId :

TR-04-091021

Tgt Ion:	142	Resp:	112
Ion	Ratio	Lower	Upper
142	100		
127	0.0	36.9	55.3#
141	0.0	11.8	17.6#



#16

Acetone

Concen: 12.399 ug/l

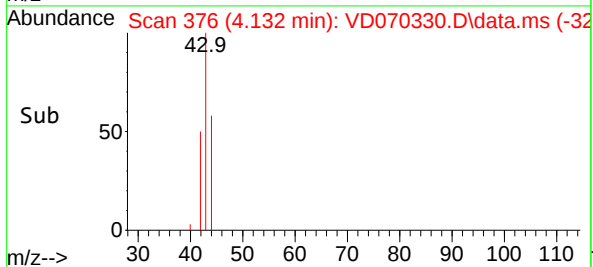
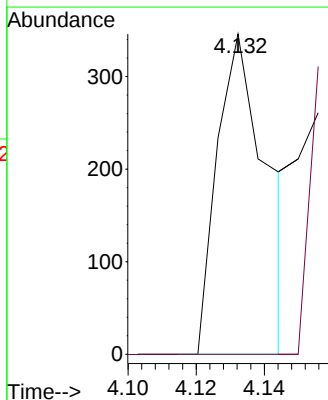
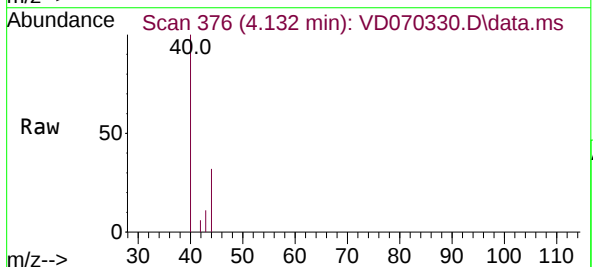
RT: 4.132 min Scan# 376

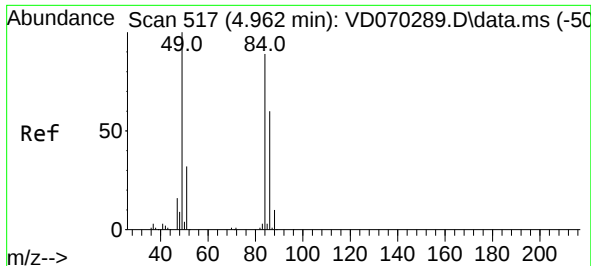
Delta R.T. -0.024 min

Lab File: VD070330.D

Acq: 13 Sep 2021 16:56

Tgt Ion:	43	Resp:	349
Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.9	46.3#

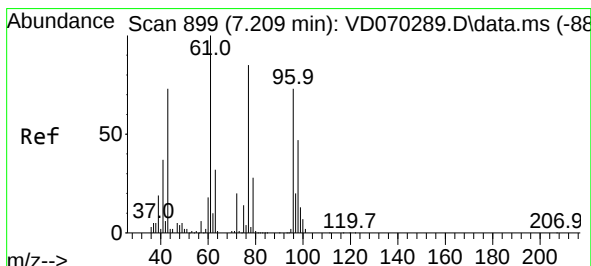
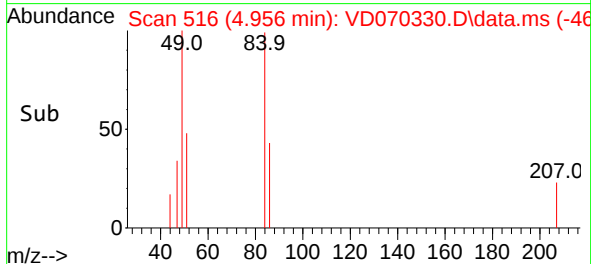
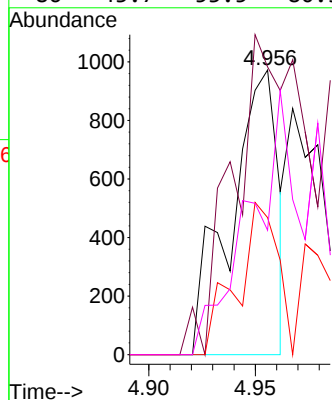
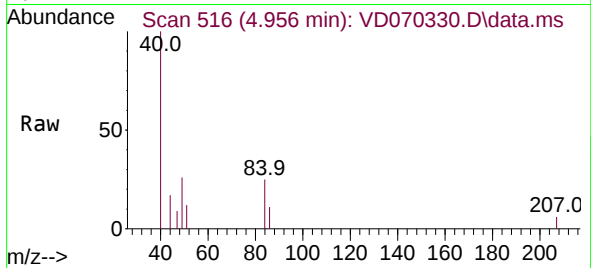




#20
Methylene Chloride
Concen: 1.566 ug/l
RT: 4.956 min Scan# 516
Delta R.T. -0.006 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

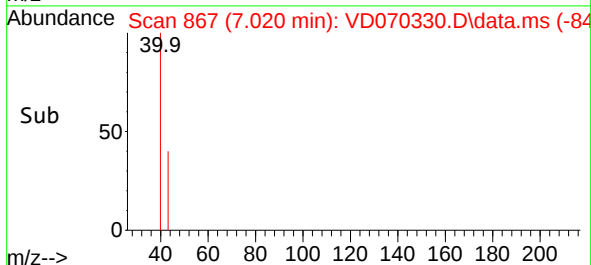
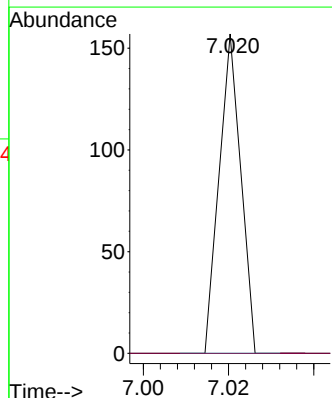
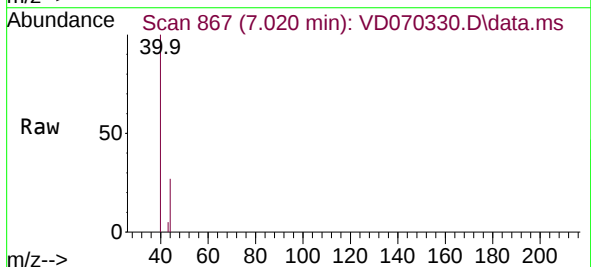
Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

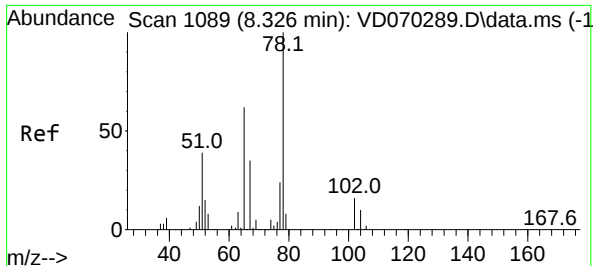
Tgt Ion:	84	Resp:	1509
Ion	Ratio	Lower	Upper
84	100		
49	101.1	89.6	134.4
51	48.1	28.6	43.0#
86	43.7	53.5	80.3#



#25
2-Butanone
Concen: 1.468 ug/l
RT: 7.020 min Scan# 867
Delta R.T. -0.188 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion:	43	Resp:	55
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.2	33.4#

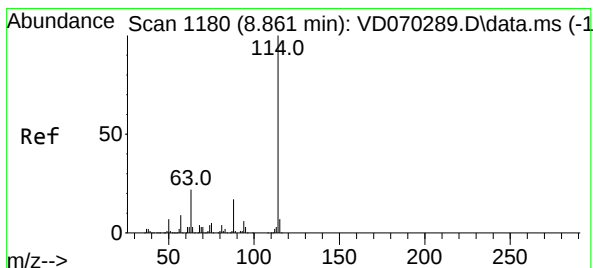
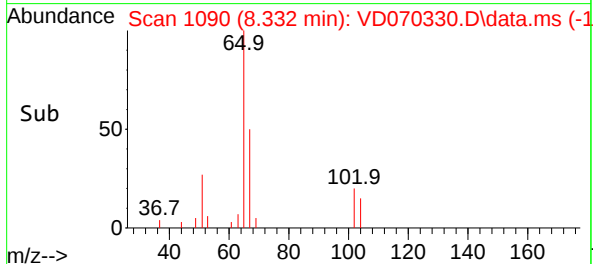
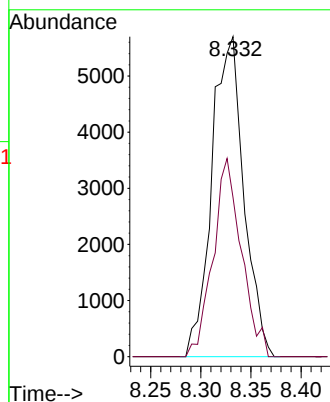
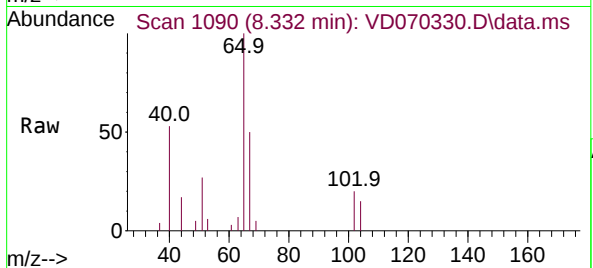




#33
1,2-Dichloroethane-d4
Concen: 80.386 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

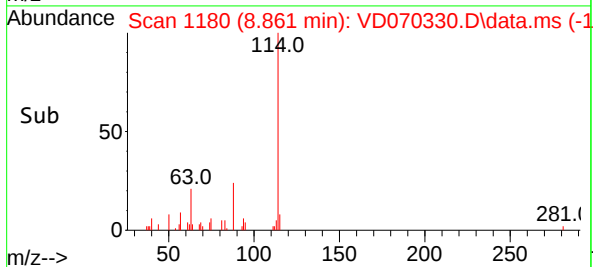
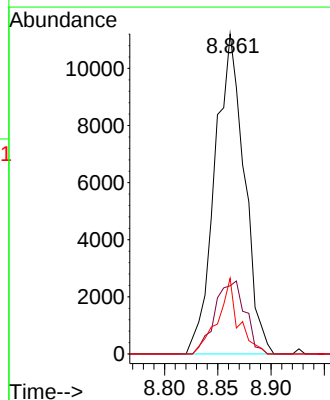
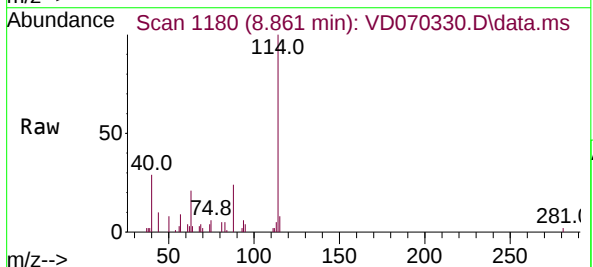
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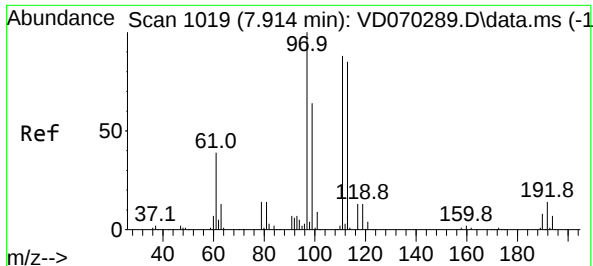
Tgt Ion: 65 Resp: 12673
Ion Ratio Lower Upper
65 100
67 54.8 0.0 111.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion:114 Resp: 21518
Ion Ratio Lower Upper
114 100
63 21.3 0.0 43.4
88 23.7 0.0 33.4

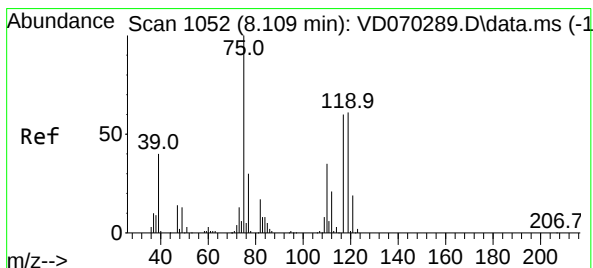
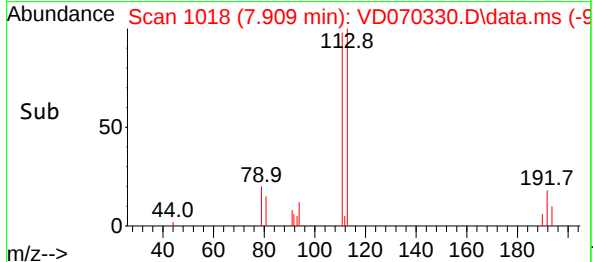
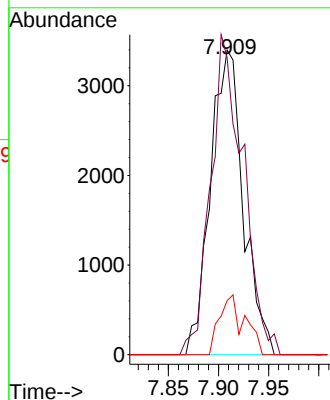
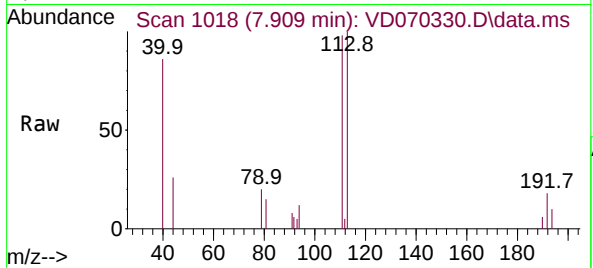




#35
Dibromofluoromethane
Concen: 50.820 ug/l
RT: 7.909 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

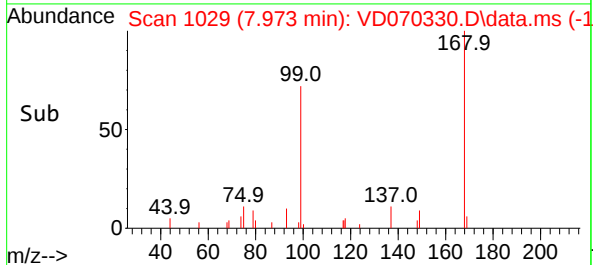
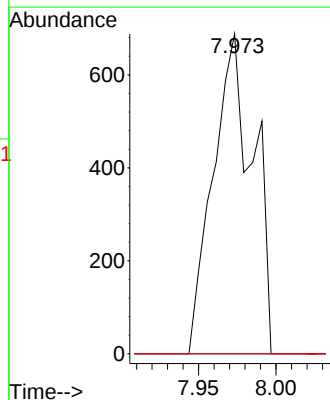
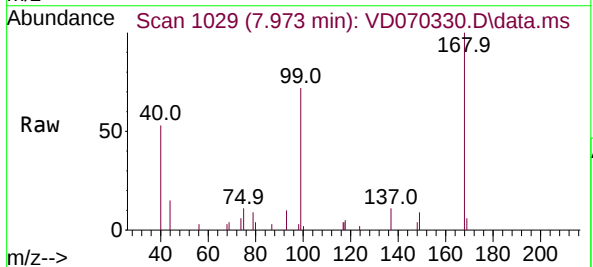
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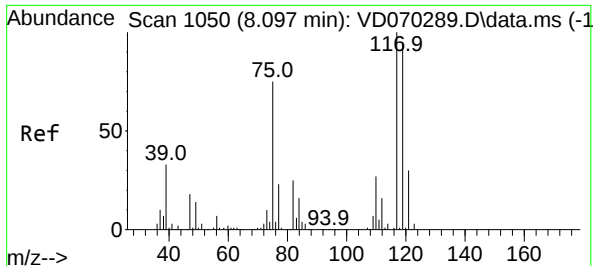
Tgt Ion:	113	Resp:	7784
Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.4	122.2
192	14.9	13.0	19.6



#36
1,1-Dichloropropene
Concen: 5.352 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion:	75	Resp:	1231
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.9	53.7#
77	0.0	25.3	37.9#

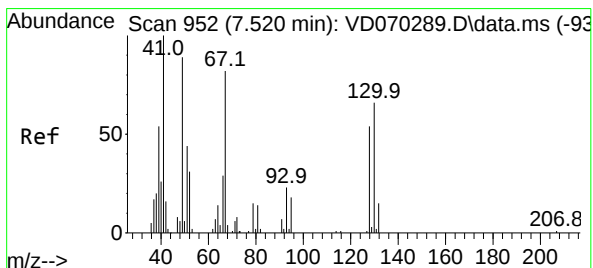
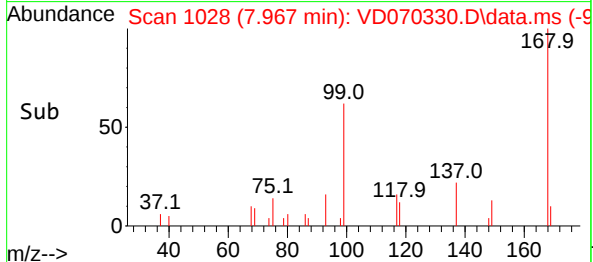
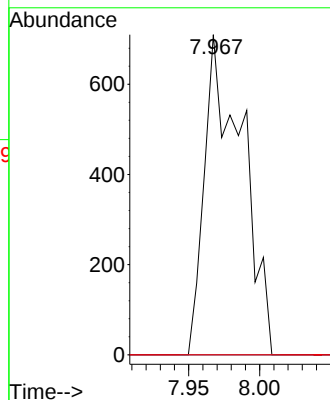
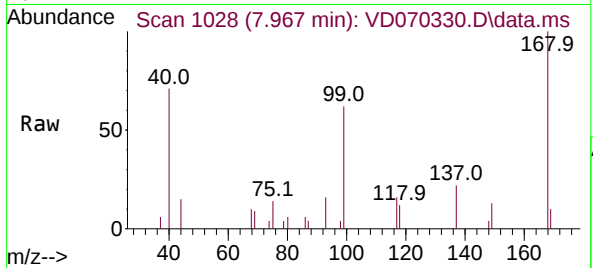




#38
Carbon Tetrachloride
Concen: 5.755 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.129 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

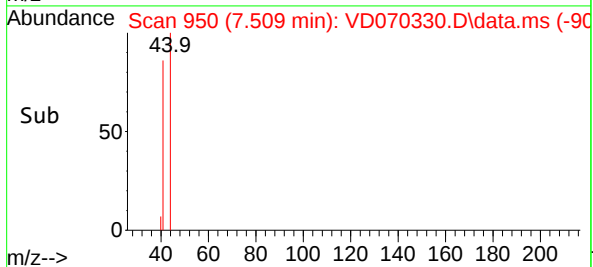
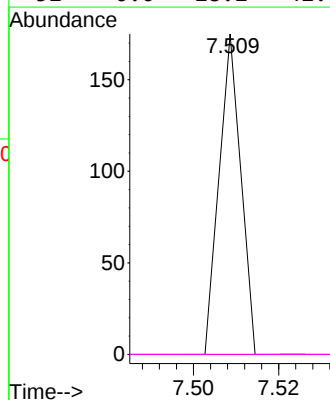
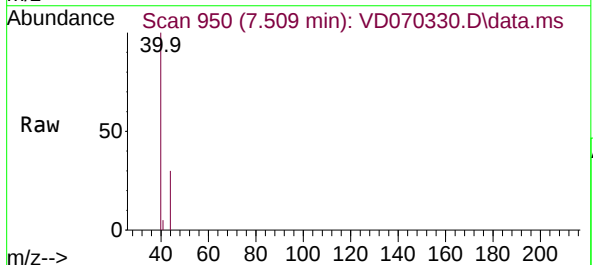
Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

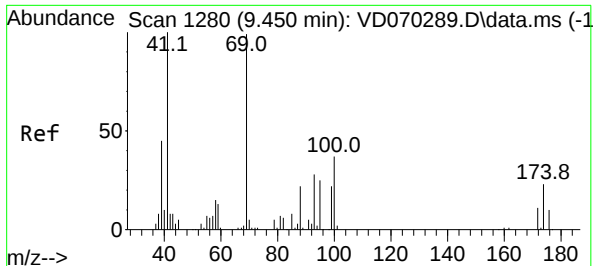
Tgt Ion:117 Resp: 1309
Ion Ratio Lower Upper
117 100
119 0.0 76.1 114.1#
121 0.0 23.8 35.6#



#41
Methacrylonitrile
Concen: 1.370 ug/l
RT: 7.509 min Scan# 950
Delta R.T. -0.012 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion: 41 Resp: 62
Ion Ratio Lower Upper
41 100
39 0.0 45.7 68.5#
67 0.0 74.0 111.0#
52 0.0 28.2 42.4#





#48

Methyl methacrylate

Concen: 4.767 ug/l

RT: 9.356 min Scan# 1264

Delta R.T. -0.094 min

Lab File: VD070330.D

Acq: 13 Sep 2021 16:56

Tgt Ion: 41 Resp: 350

Ion Ratio Lower Upper

41 100

69 0.0 79.8 119.8#

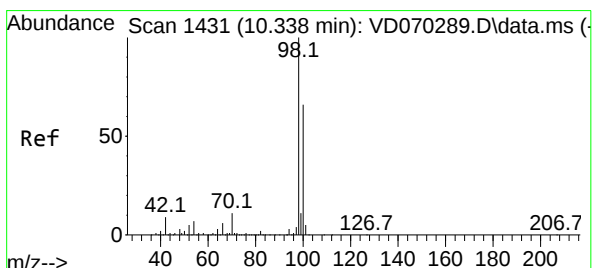
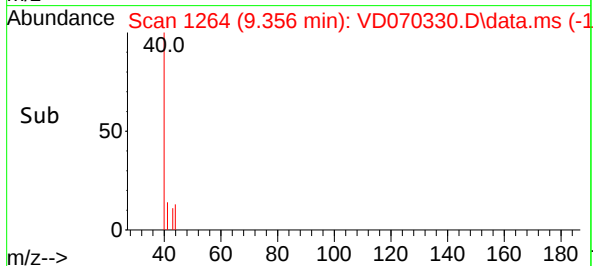
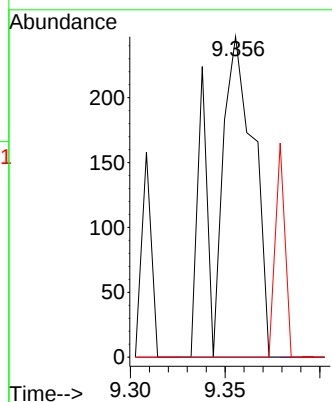
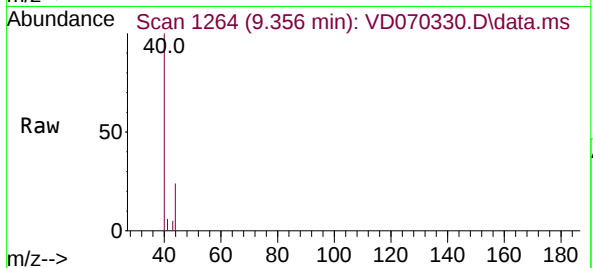
39 0.0 34.4 51.6#

Instrument :

MSVOA_D

ClientSampleId :

TR-04-091021



#50

Toluene-d8

Concen: 51.376 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD070330.D

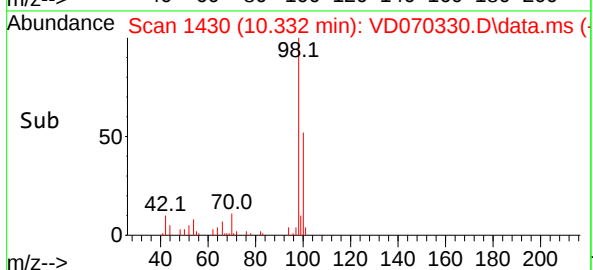
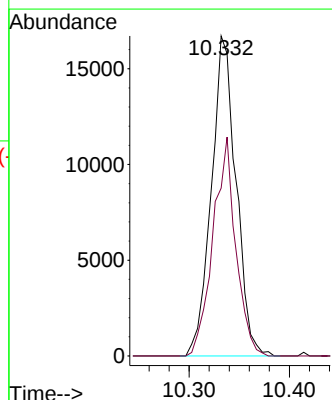
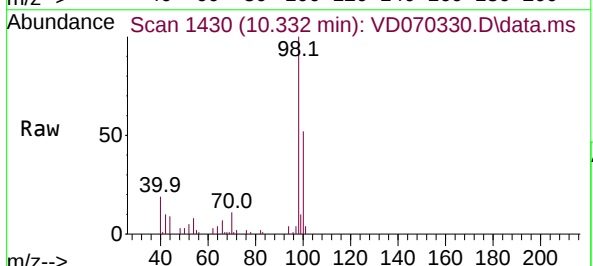
Acq: 13 Sep 2021 16:56

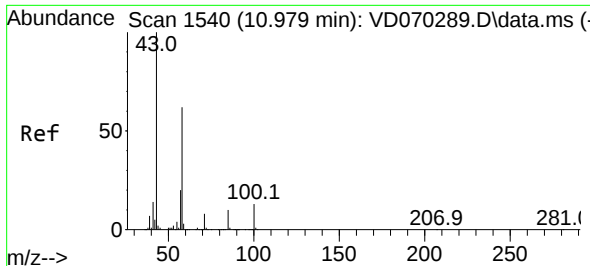
Tgt Ion: 98 Resp: 28571

Ion Ratio Lower Upper

98 100

100 63.1 52.0 78.0

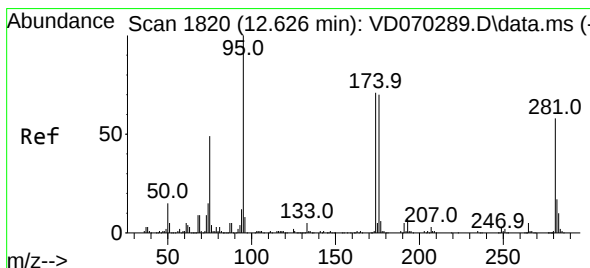
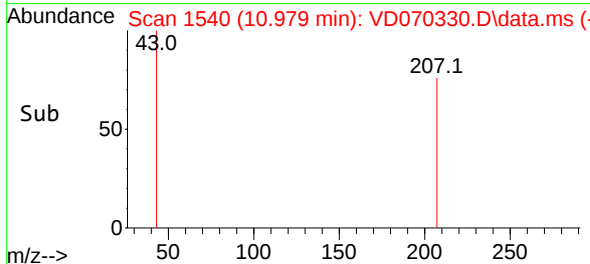
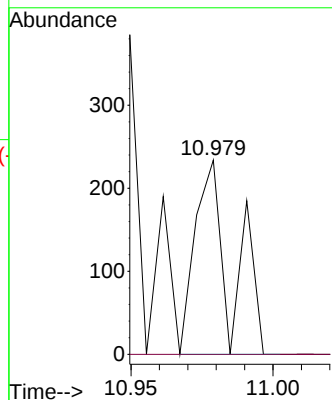
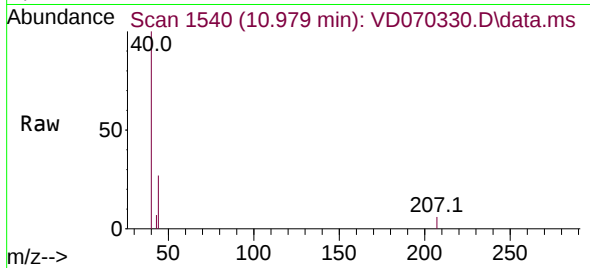




#59
2-Hexanone
Concen: 3.770 ug/l
RT: 10.979 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

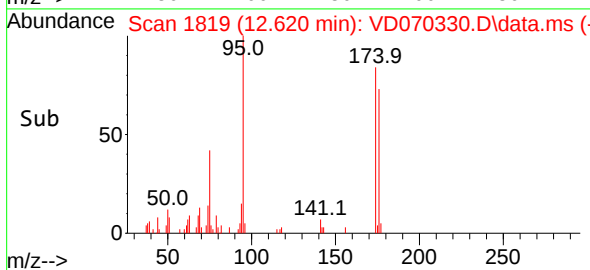
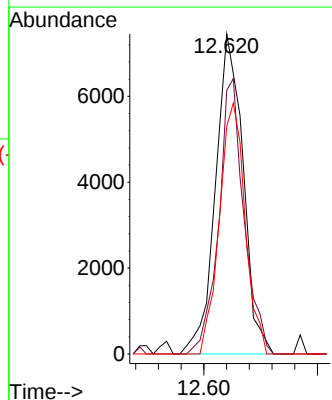
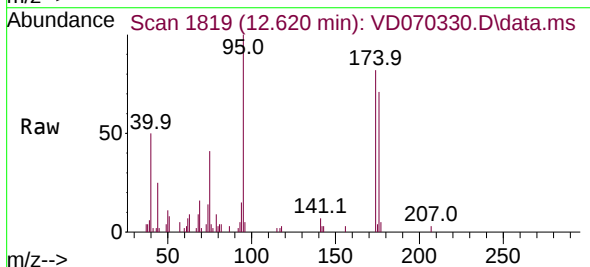
Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

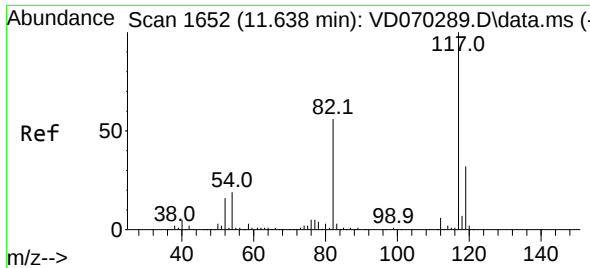
Tgt Ion: 43 Resp: 207
Ion Ratio Lower Upper
43 100
58 0.0 30.6 91.6#



#62
4-Bromofluorobenzene
Concen: 64.557 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion: 95 Resp: 12547
Ion Ratio Lower Upper
95 100
174 79.1 0.0 140.6
176 73.1 0.0 137.4

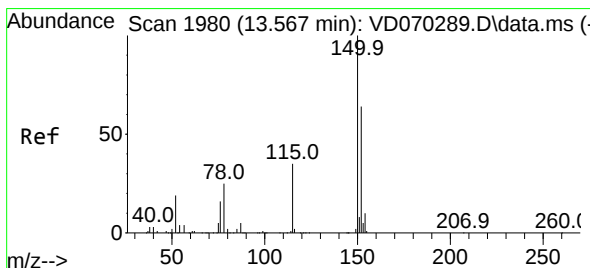
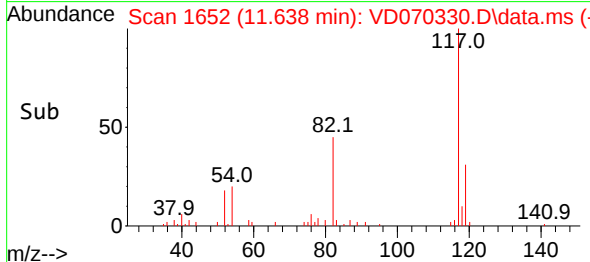
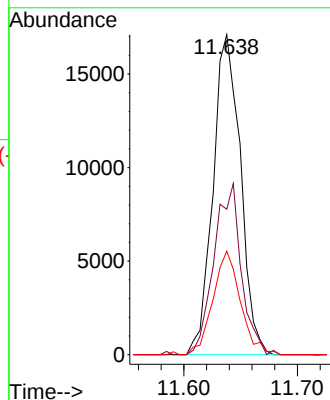
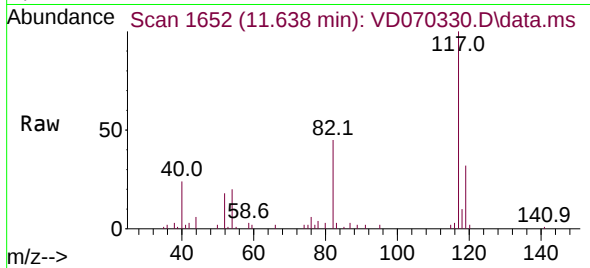




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

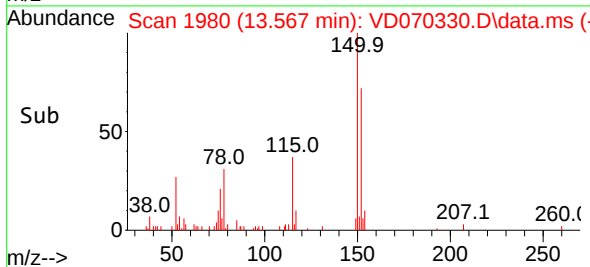
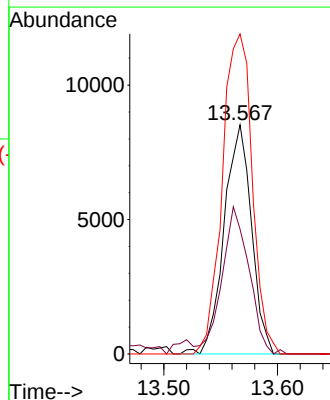
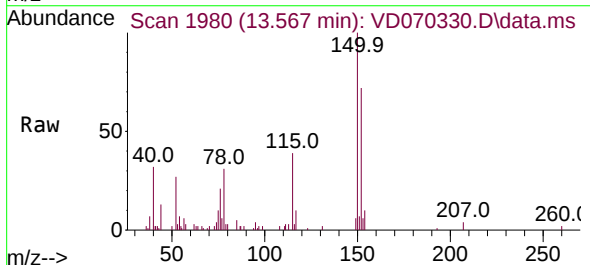
Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

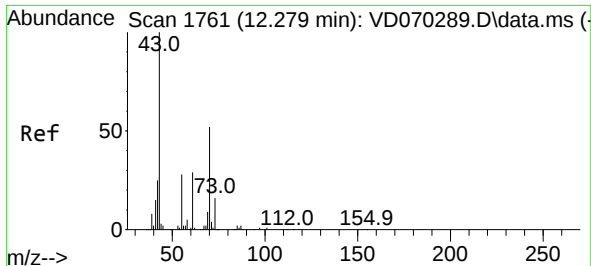
Tgt Ion:117	Resp:	28705
Ion Ratio	Lower	Upper
117	100	
82	45.4	45.0 67.4
119	32.3	25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion:152	Resp:	14223
Ion Ratio	Lower	Upper
152	100	
115	64.0	32.1 96.3
150	152.9	0.0 350.6

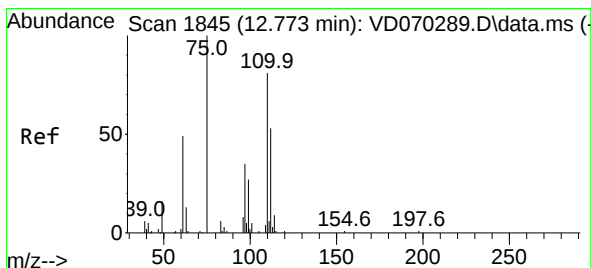
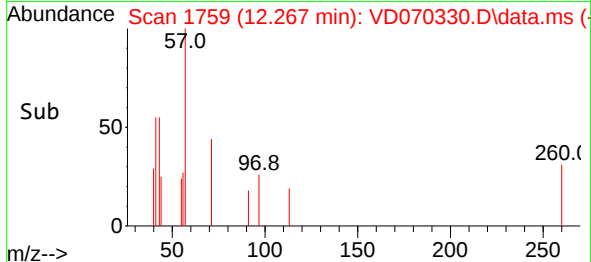
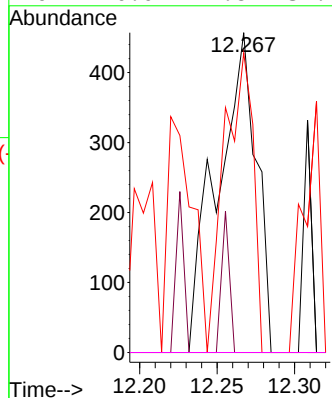
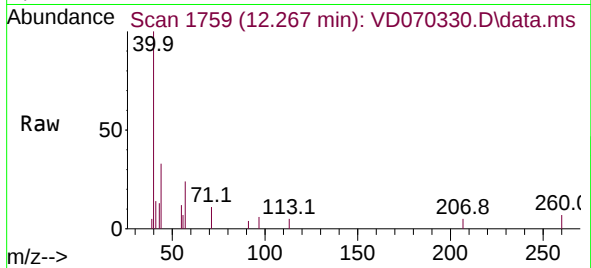




#74
N-amy1 acetate
Concen: 3.686 ug/l
RT: 12.267 min Scan# 1759
Delta R.T. -0.012 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

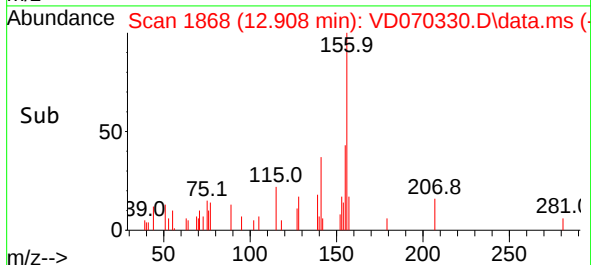
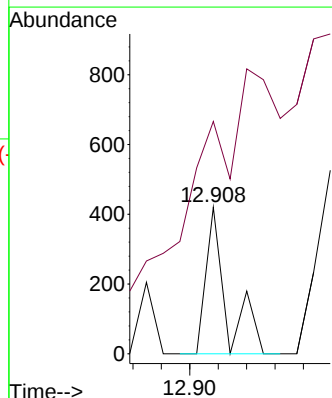
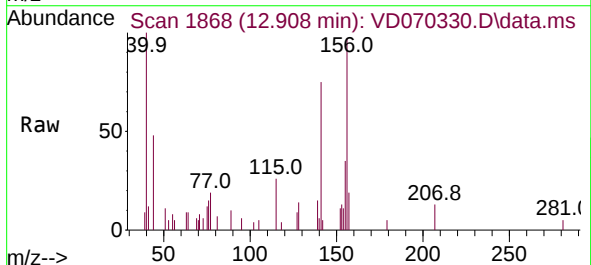
Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

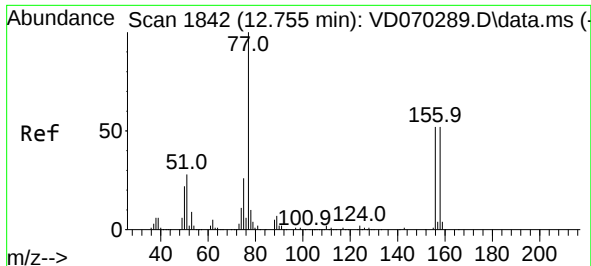
Tgt Ion:	43	Resp:	801
Ion	Ratio	Lower	Upper
43	100		
70	8.9	41.4	62.0#
55	69.0	22.8	34.2#
61	0.0	21.8	32.6#



#76
1,2,3-Trichloropropane
Concen: 1.474 ug/l
RT: 12.908 min Scan# 1868
Delta R.T. 0.135 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion:	75	Resp:	212
Ion	Ratio	Lower	Upper
75	100		
77	536.8	174.9	524.7#

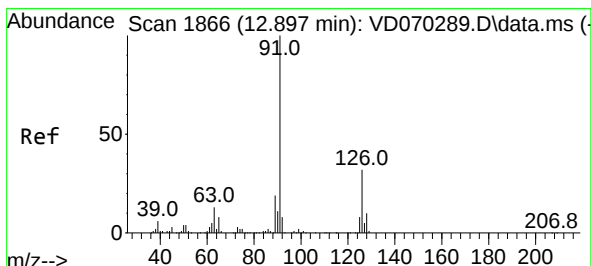
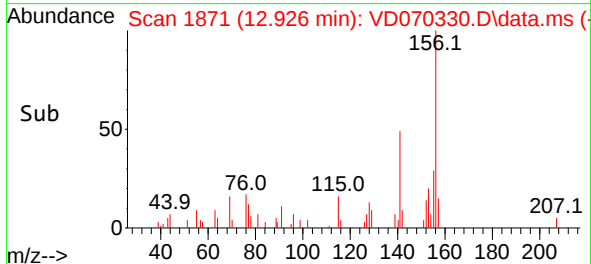
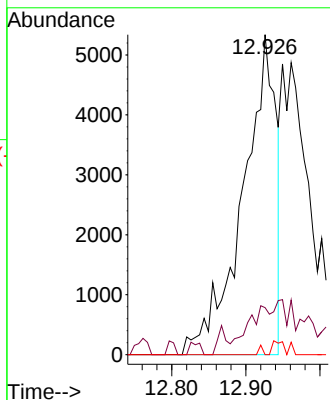
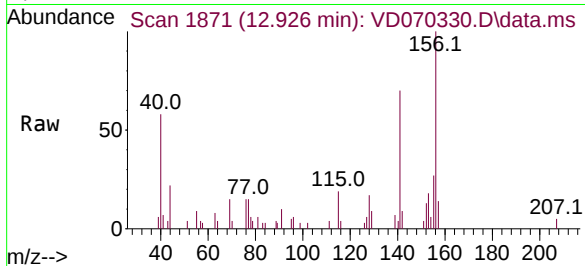




#77
Bromobenzene
Concen: 72.101 ug/l
RT: 12.926 min Scan# 1871
Delta R.T. 0.171 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

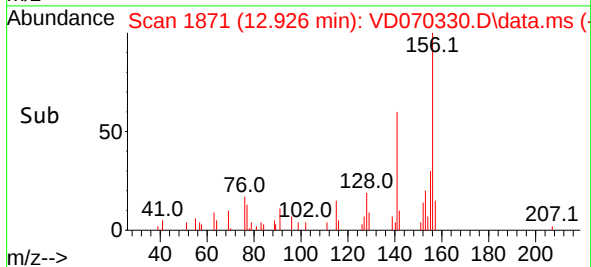
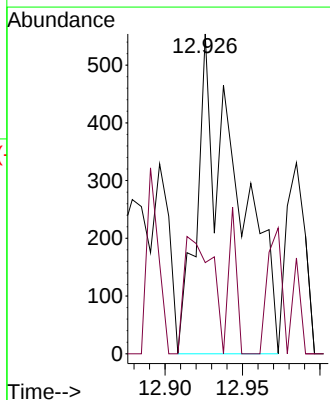
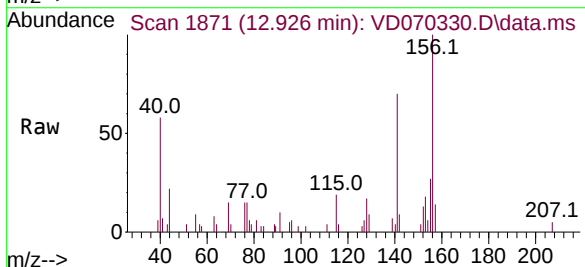
Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

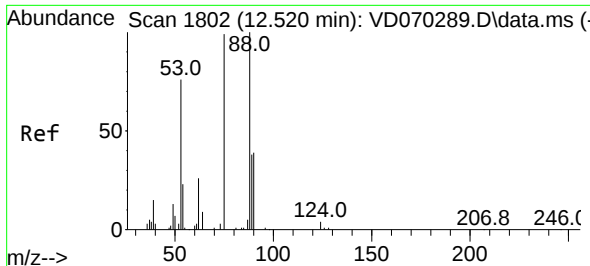
Tgt Ion:156 Resp: 16592
Ion Ratio Lower Upper
156 100
77 6.9 104.3 312.8#
158 0.3 49.4 148.0#



#79
2-Chlorotoluene
Concen: 1.321 ug/l
RT: 12.926 min Scan# 1871
Delta R.T. 0.029 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

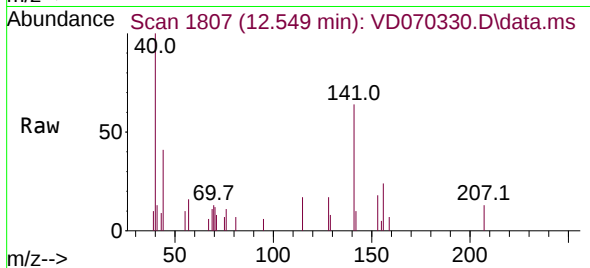
Tgt Ion: 91 Resp: 997
Ion Ratio Lower Upper
91 100
126 25.5 16.2 48.6



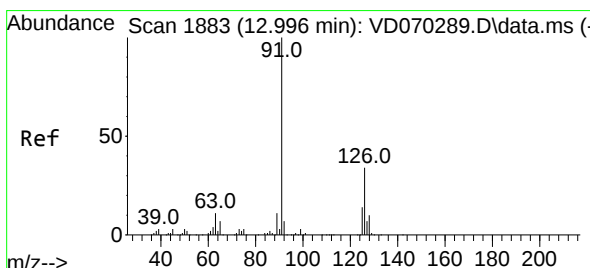
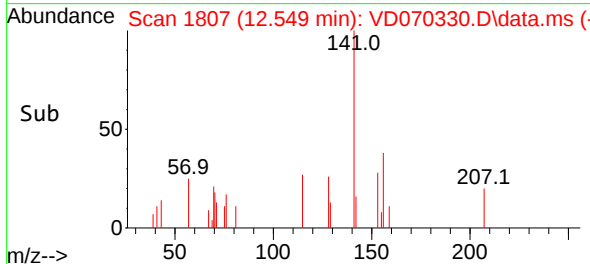
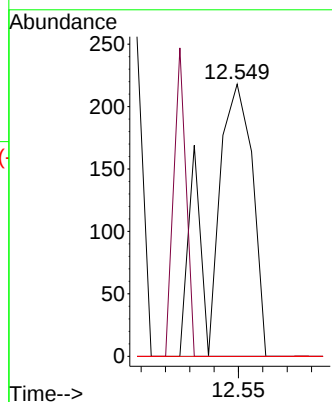


#81
trans-1,4-Dichloro-2-butene
Concen: 4.476 ug/l
RT: 12.549 min Scan# 1807
Delta R.T. 0.029 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

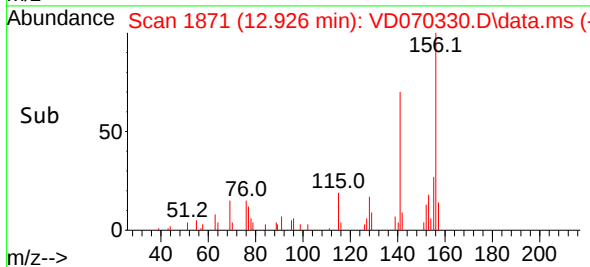
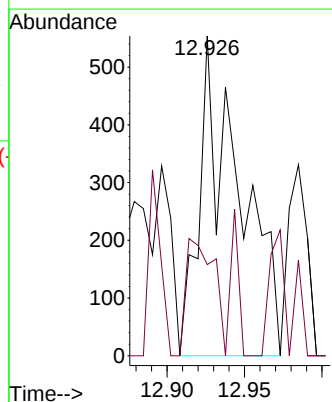
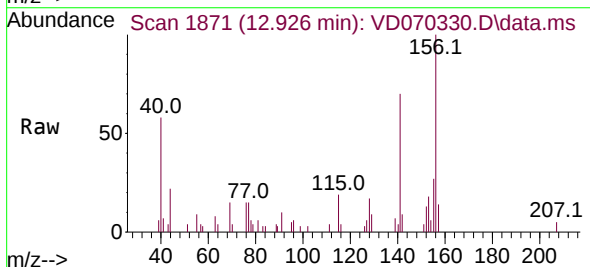


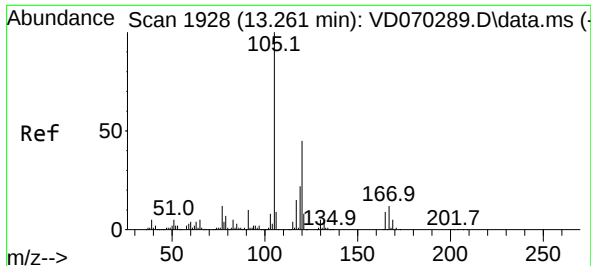
Tgt Ion: 75 Resp: 257
Ion Ratio Lower Upper
75 100
53 0.0 64.2 96.2#
89 0.0 35.6 53.4#



#82
4-Chlorotoluene
Concen: 1.252 ug/l
RT: 12.926 min Scan# 1871
Delta R.T. -0.071 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion: 91 Resp: 997
Ion Ratio Lower Upper
91 100
126 25.5 16.2 48.5

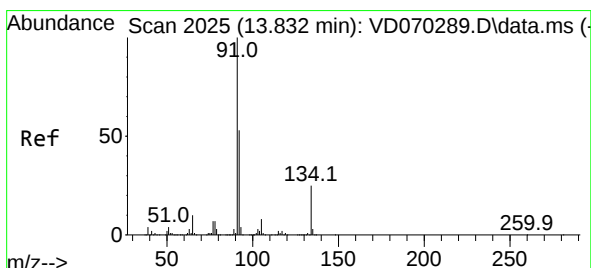
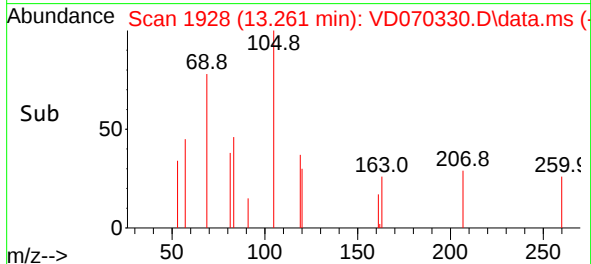
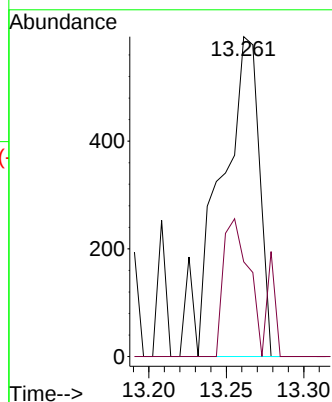
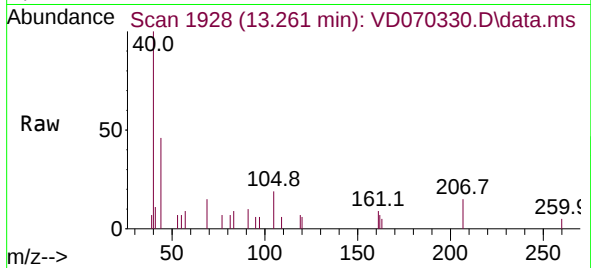




#84
1,2,4-Trimethylbenzene
Concen: 1.230 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. 0.000 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

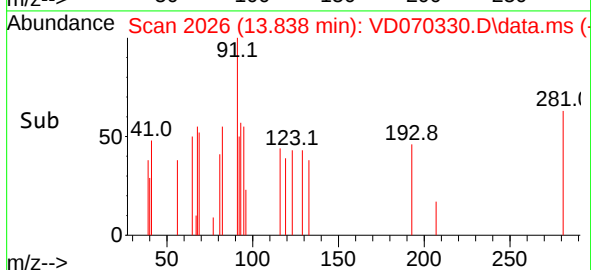
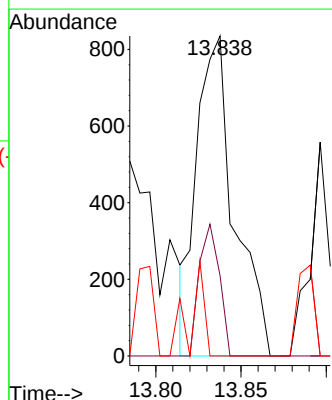
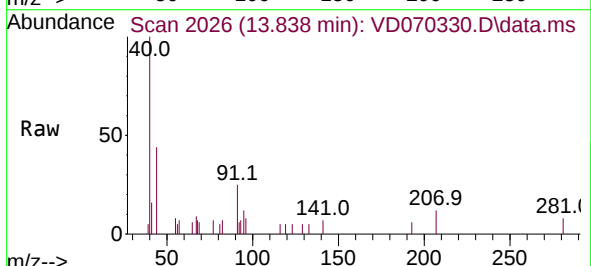
Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

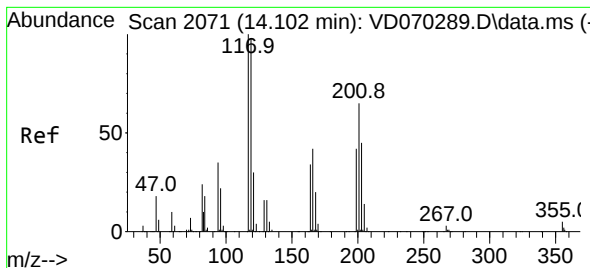
Tgt Ion:105 Resp: 1043
Ion Ratio Lower Upper
105 100
120 27.6 22.3 66.8



#89
n-Butylbenzene
Concen: 1.457 ug/l
RT: 13.838 min Scan# 2026
Delta R.T. 0.006 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion: 91 Resp: 1281
Ion Ratio Lower Upper
91 100
92 22.1 26.8 80.4#
134 10.9 12.1 36.3#

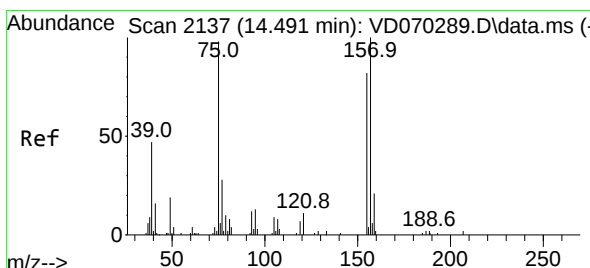
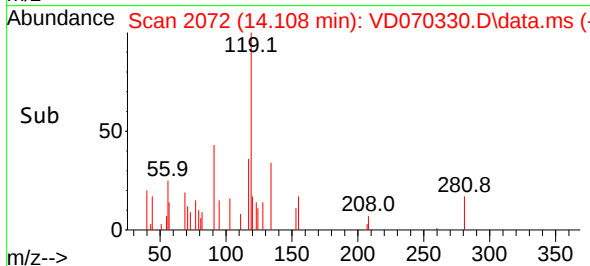
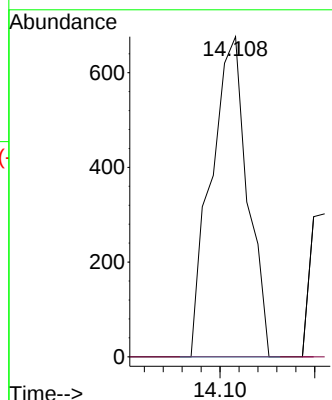
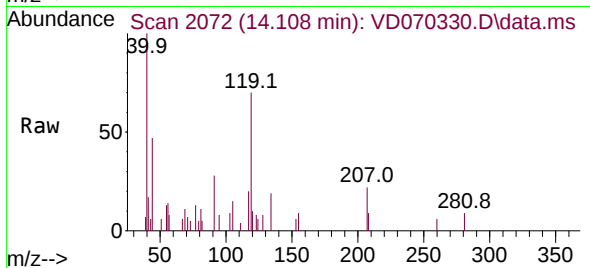




#90
Hexachloroethane
Concen: 4.479 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.006 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Instrument :
MSVOA_D
ClientSampleId :
TR-04-091021

Tgt Ion:117 Resp: 904
Ion Ratio Lower Upper
117 100
201 0.0 31.9 95.9#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.750 ug/l
RT: 14.314 min Scan# 2107
Delta R.T. -0.176 min
Lab File: VD070330.D
Acq: 13 Sep 2021 16:56

Tgt Ion: 75 Resp: 56
Ion Ratio Lower Upper
75 100
155 858.9 40.3 120.9#
157 612.5 48.9 146.6#

