

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD010422\
 Data File : VD071589.D
 Acq On : 04 Jan 2022 13:25
 Operator : VA/SY
 Sample : M5257-01
 Misc : 5.06G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

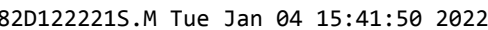
Quant Time: Jan 04 15:41:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122221S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 23 08:20:24 2021
 Response via : Initial Calibration

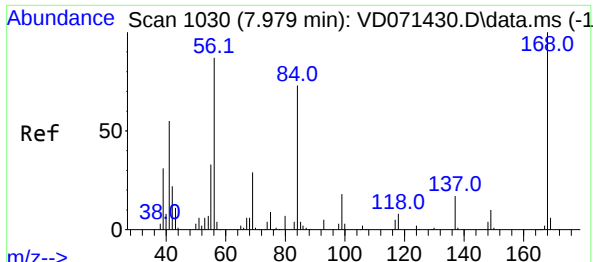
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.979	168	28133	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	48923	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	50212	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	25794	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	28162	75.374	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 150.740%			
35) Dibromofluoromethane	7.914	113	18442	56.089	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.180%			
50) Toluene-d8	10.338	98	61056	49.138	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 98.280%			
62) 4-Bromofluorobenzene	12.626	95	27910	63.211	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 126.420%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.179	59	1542	21.198	ug/l #	71
16) Acetone	4.162	43	10874	115.868	ug/l #	68
20) Methylene Chloride	4.956	84	1273	Below Cal	#	79
25) 2-Butanone	7.191	43	1586	14.148	ug/l #	45
26) 2,2-Dichloropropane	7.185	77	1119	2.105	ug/l #	52
29) Tetrahydrofuran	7.791	42	163	2.422	ug/l #	34
31) Cyclohexane	7.967	56	974	1.535	ug/l #	68
36) 1,1-Dichloropropene	7.979	75	3384	6.442	ug/l #	41
38) Carbon Tetrachloride	7.985	117	3274	6.317	ug/l #	12
51) 4-Methyl-2-Pentanone	10.226	43	950	3.752	ug/l #	55
67) Ethyl Benzene	11.738	91	15900	8.295	ug/l	91
68) m/p-Xylenes	11.838	106	1461	2.006	ug/l #	1
69) o-Xylene	12.173	106	43480	65.318	ug/l	99
70) Styrene	12.179	104	2971	2.569	ug/l #	1
73) Isopropylbenzene	12.467	105	2176	1.094	ug/l	100
74) N-amyl acetate	12.261	43	17214	32.264	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	12.696	83	640	1.780	ug/l #	1
76) 1,2,3-Trichloropropane	12.620	75	14334	46.770	ug/l #	1
78) n-propylbenzene	12.814	91	2992	1.200	ug/l #	54
80) 1,3,5-Trimethylbenzene	12.949	105	66461	40.519	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.620	75	14334	132.150	ug/l #	26
83) tert-Butylbenzene	13.214	119	1449	1.034	ug/l #	47
84) 1,2,4-Trimethylbenzene	13.114	105	47718	29.394	ug/l	78
85) sec-Butylbenzene	13.391	105	7805	3.653	ug/l	82
86) p-Isopropyltoluene	13.508	119	12486	7.042	ug/l	86
89) n-Butylbenzene	13.796	91	14638	8.412	ug/l #	1
90) Hexachloroethane	14.102	117	1903	5.666	ug/l #	14
95) Naphthalene	15.379	128	1084	1.236	ug/l #	76

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

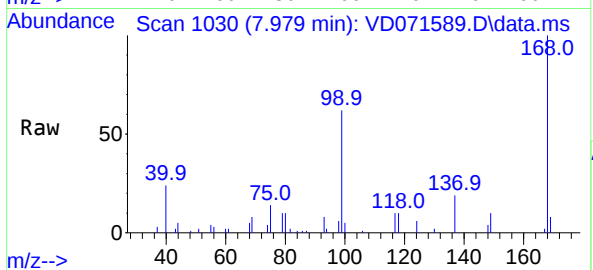
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Quant Title : SW846 8260
QLast Update : Thu Dec 23 08:20:24 2021
Response via : Initial Calibration



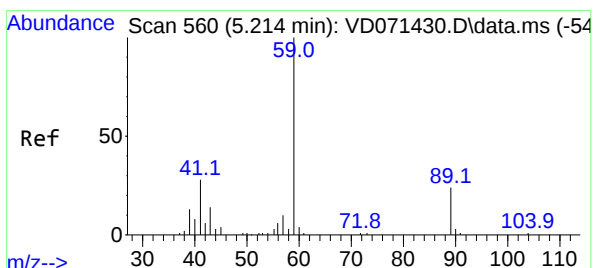
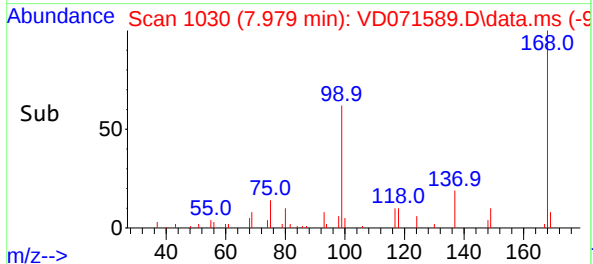
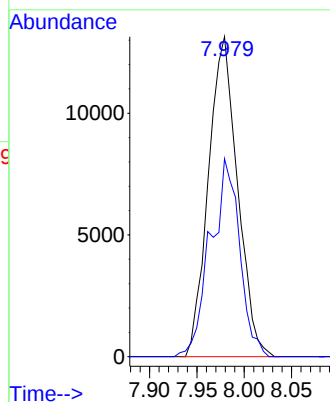


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Instrument :
MSVOA_D
ClientSampleId :

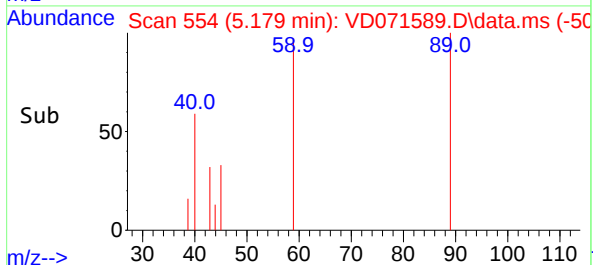
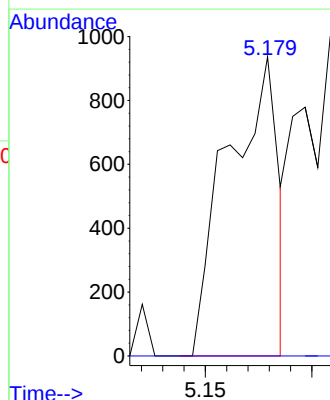
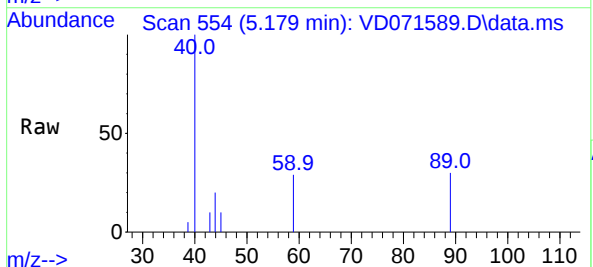


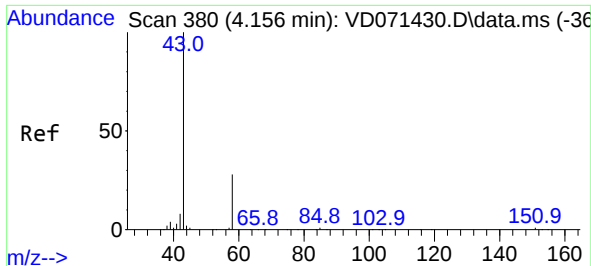
Tgt Ion:168 Resp: 28133
Ion Ratio Lower Upper
168 100
99 61.9 46.6 69.8



#11
Tert butyl alcohol
Concen: 21.198 ug/l
RT: 5.179 min Scan# 554
Delta R.T. -0.030 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion: 59 Resp: 1542
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

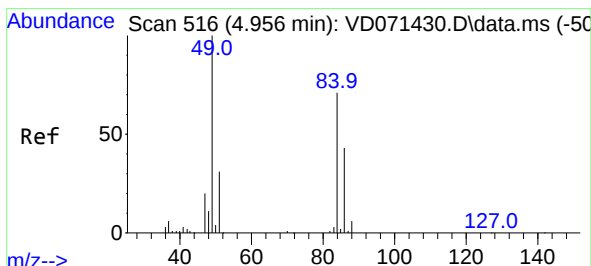
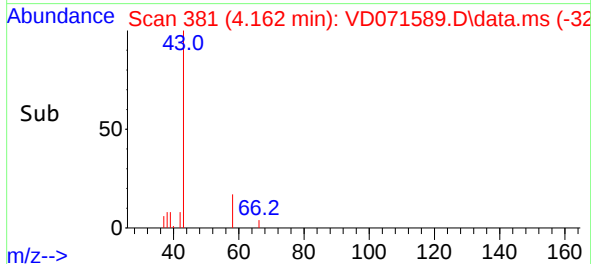
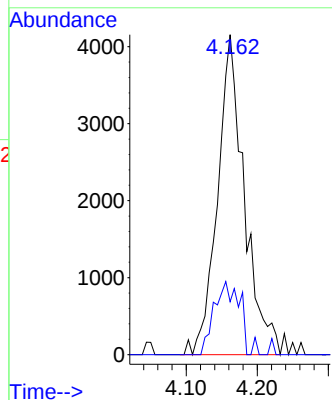
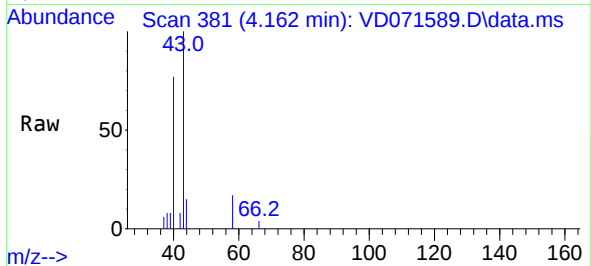




#16
Acetone
Concen: 115.868 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

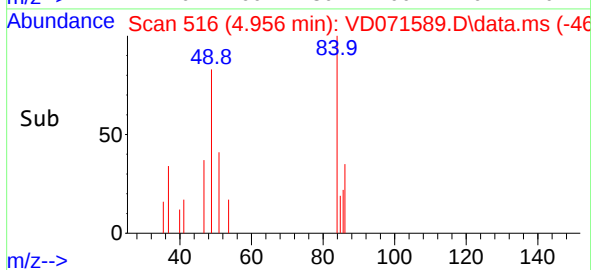
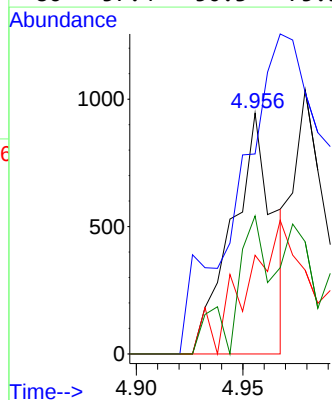
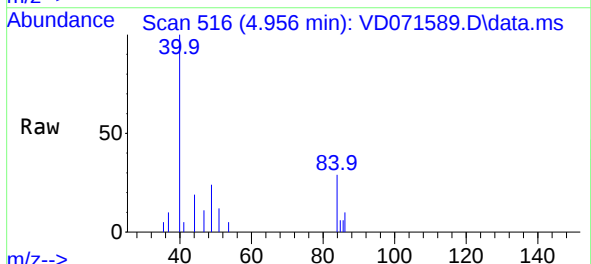
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MSVOA_D
ClientSampleId :

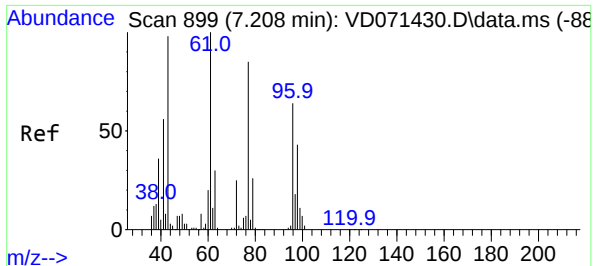
Tgt Ion: 43 Resp: 10874
Ion Ratio Lower Upper
43 100
58 16.5 27.8 41.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 516
Delta R.T. -0.005 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion: 84 Resp: 1273
Ion Ratio Lower Upper
84 100
49 83.1 95.8 143.6#
51 41.0 30.9 46.3
86 57.4 50.3 75.5

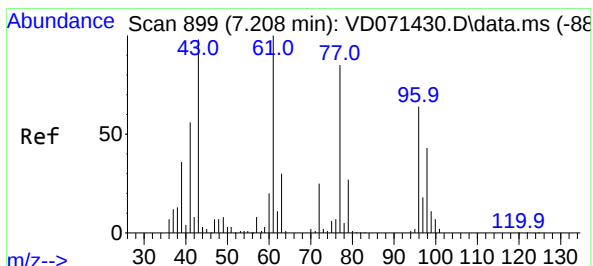
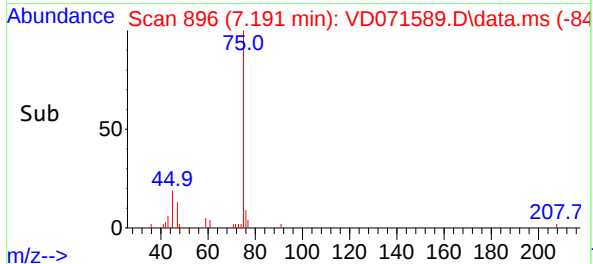
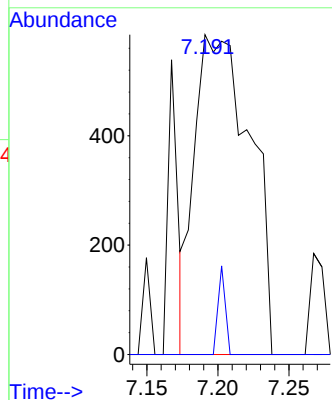
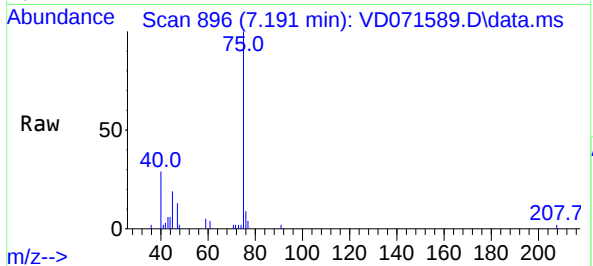




#25
2-Butanone
Concen: 14.148 ug/l
RT: 7.191 min Scan# 896
Delta R.T. -0.017 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

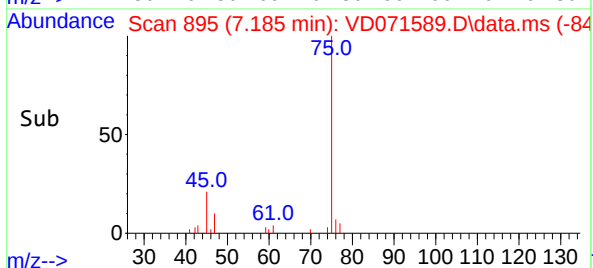
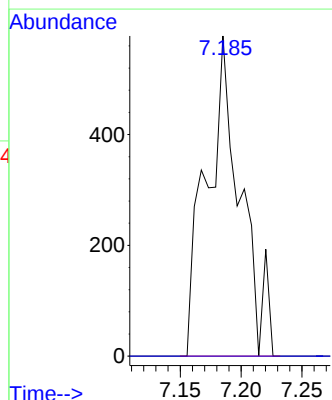
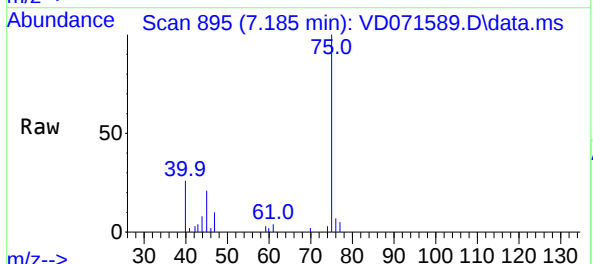
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MSVOA_D
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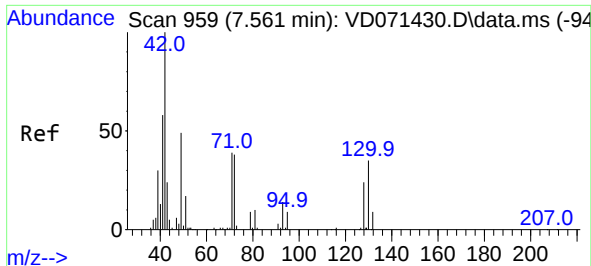
Tgt Ion: 43 Resp: 1586
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#26
2,2-Dichloropropane
Concen: 2.105 ug/l
RT: 7.185 min Scan# 895
Delta R.T. -0.023 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion: 77 Resp: 1119
Ion Ratio Lower Upper
77 100
97 0.0 11.9 35.5#





#29

Tetrahydrofuran

Concen: 2.422 ug/l

RT: 7.791 min Scan# 91

Delta R.T. 0.236 min

Lab File: VD071589.D

Acq: 04 Jan 2022 13:25

Instrument :

MSVOA_D

ClientSampleId :

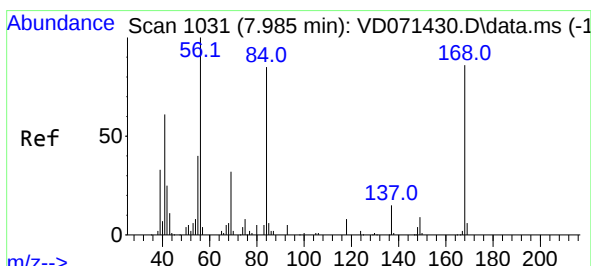
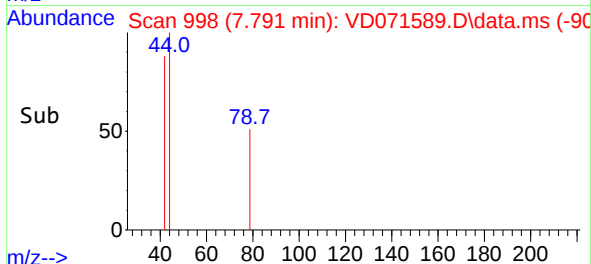
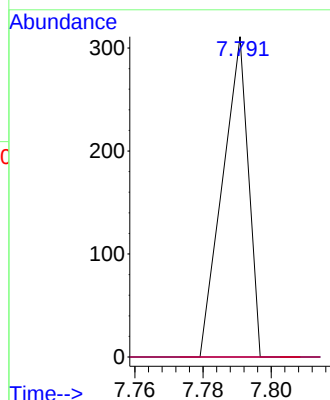
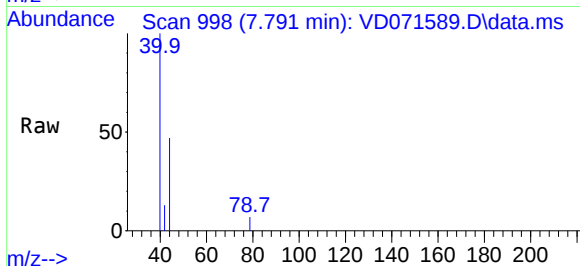
Tgt Ion: 42 Resp: 163

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#



#31

Cyclohexane

Concen: 1.535 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.018 min

Lab File: VD071589.D

Acq: 04 Jan 2022 13:25

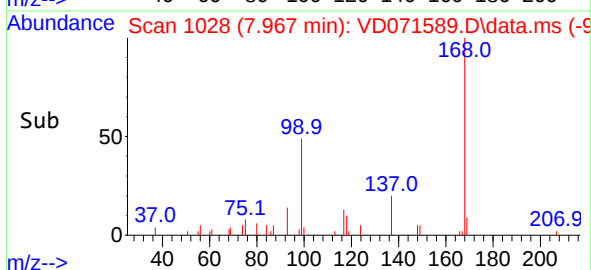
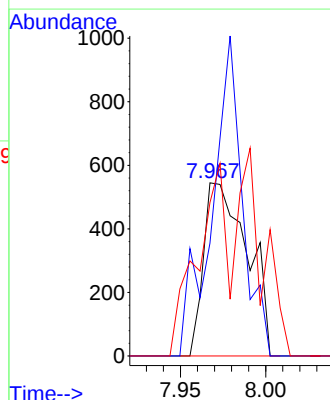
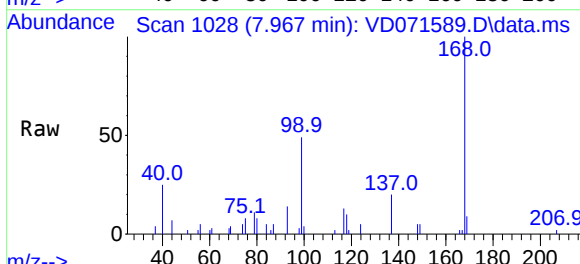
Tgt Ion: 56 Resp: 974

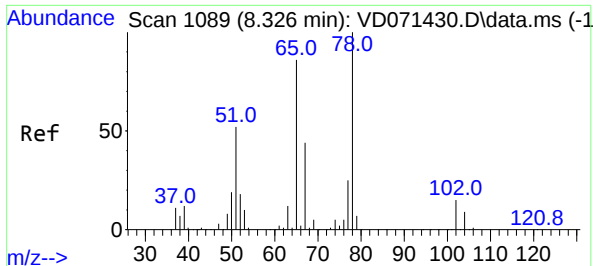
Ion Ratio Lower Upper

56 100

69 65.1 25.9 38.9#

84 60.9 64.3 96.5#

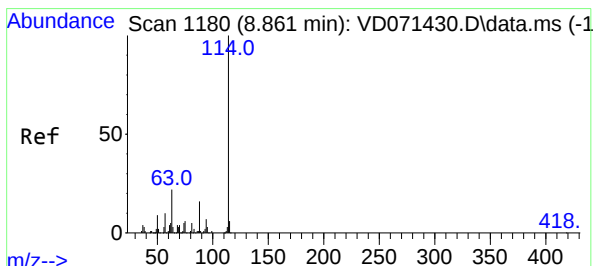
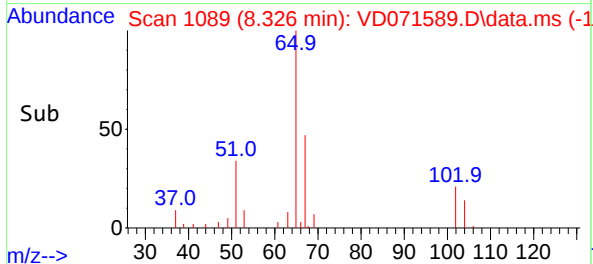
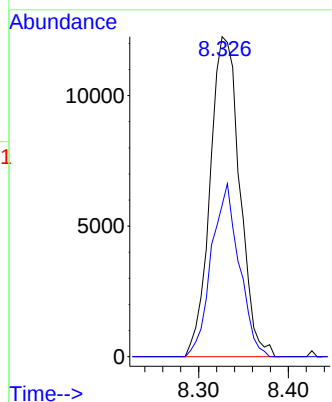
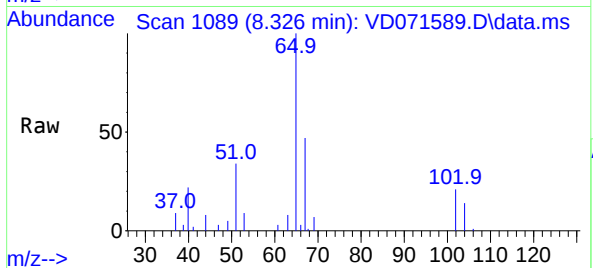




#33
1,2-Dichloroethane-d4
Concen: 75.374 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

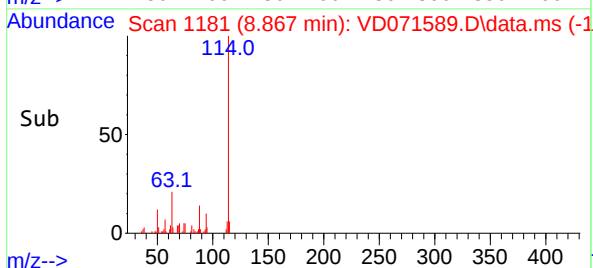
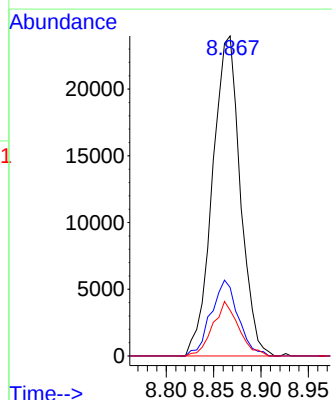
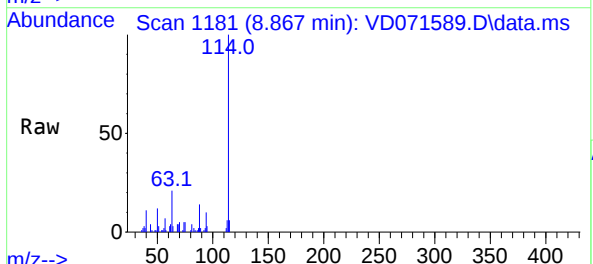
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MSVOA_D
ClientSampleId :

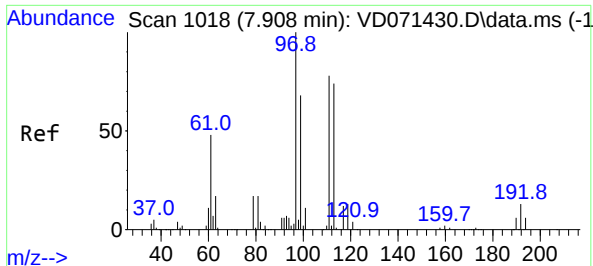
Tgt Ion: 65 Resp: 28162
Ion Ratio Lower Upper
65 100
67 50.5 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion:114 Resp: 48923
Ion Ratio Lower Upper
114 100
63 21.4 0.0 41.8
88 14.3 0.0 32.8

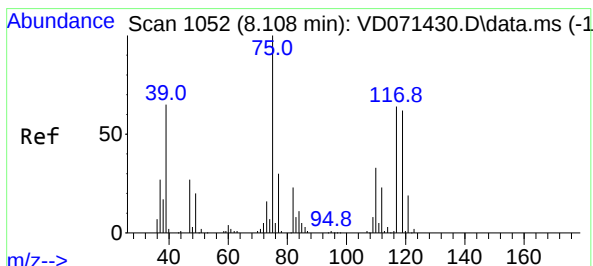
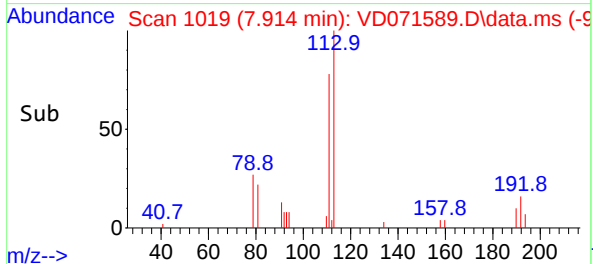
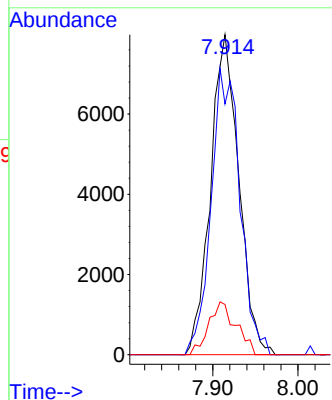
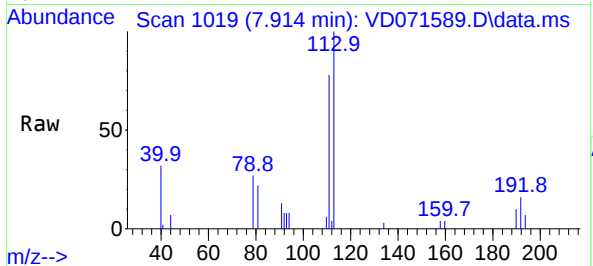




#35
Dibromofluoromethane
Concen: 56.089 ug/l
RT: 7.914 min Scan# 1018
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

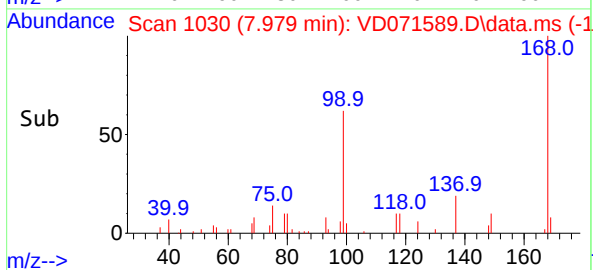
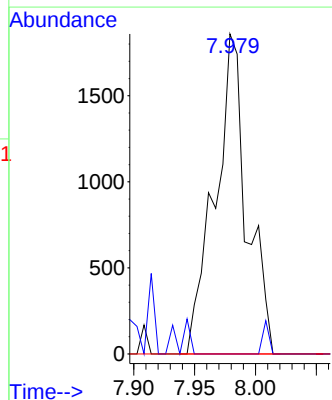
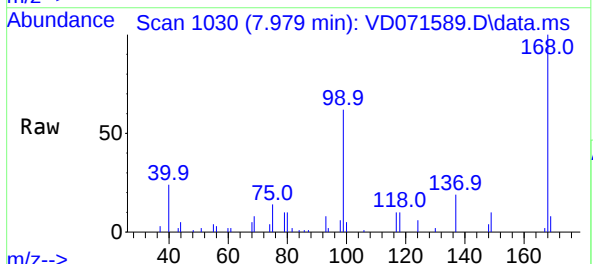
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MSVOA_D
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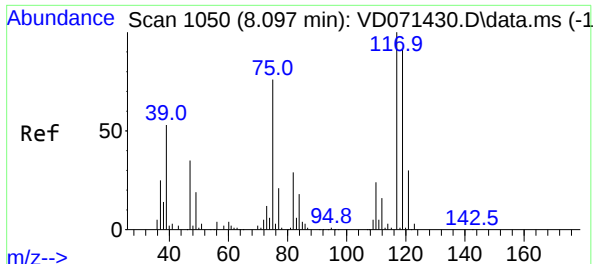
Tgt Ion:113 Resp: 18442
Ion Ratio Lower Upper
113 100
111 91.2 82.0 123.0
192 15.9 15.2 22.8



#36
1,1-Dichloropropene
Concen: 6.442 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.129 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

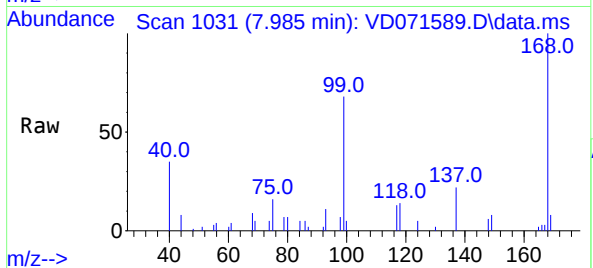
Tgt Ion: 75 Resp: 3384
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#



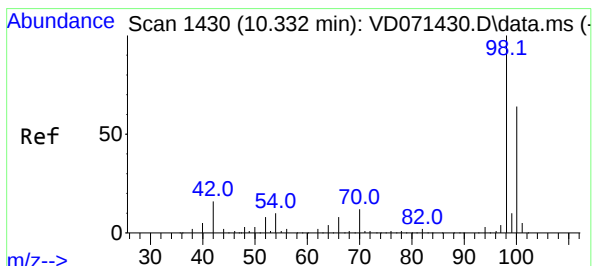
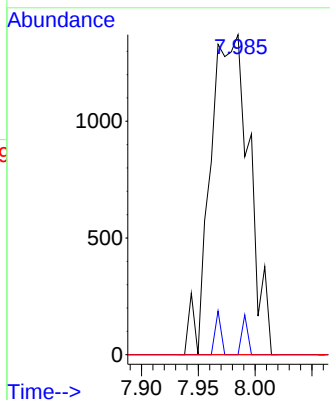
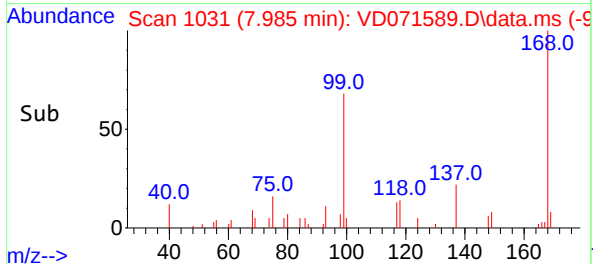


#38
Carbon Tetrachloride
Concen: 6.317 ug/l
RT: 7.985 min Scan# 1050
Delta R.T. -0.112 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Instrument :
MSVOA_D
ClientSampleId :

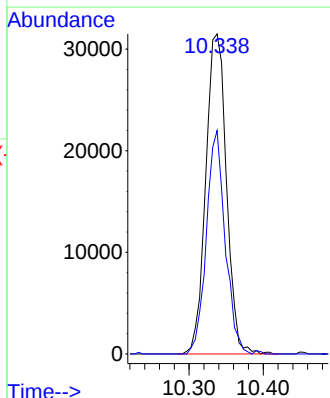
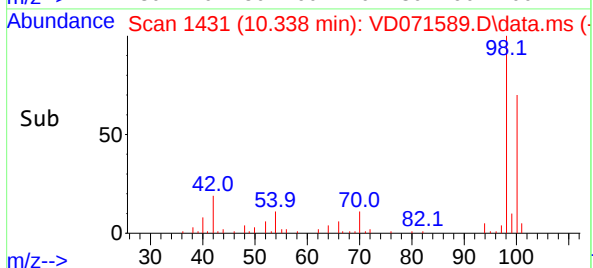
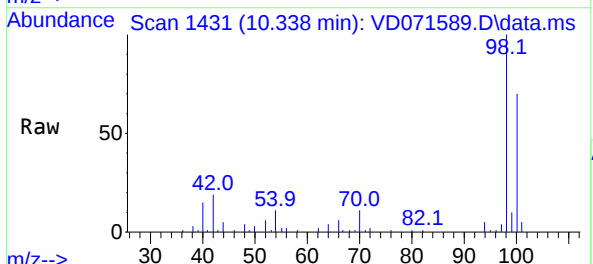


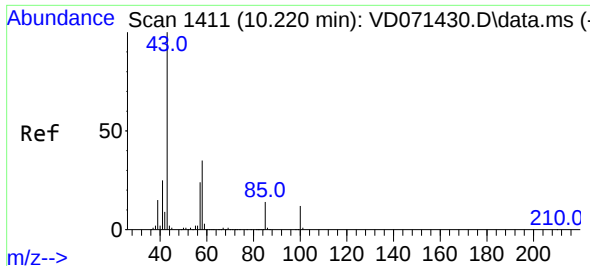
Tgt Ion:117 Resp: 3274
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#50
Toluene-d8
Concen: 49.138 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion: 98 Resp: 61056
Ion Ratio Lower Upper
98 100
100 63.4 51.8 77.6

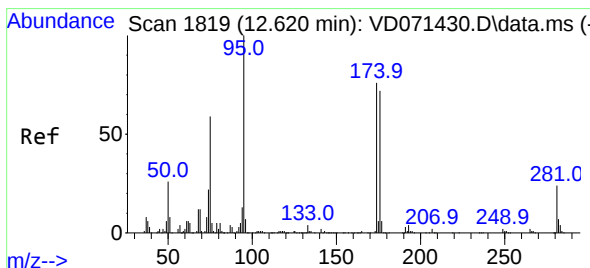
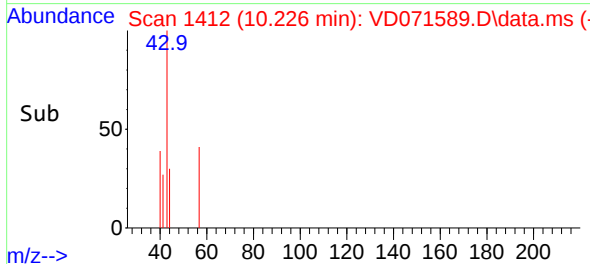
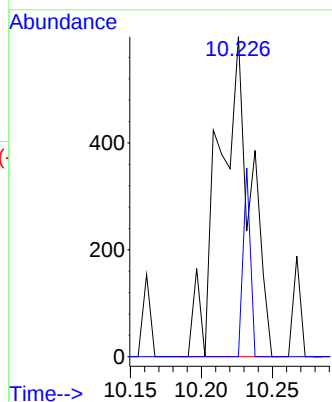
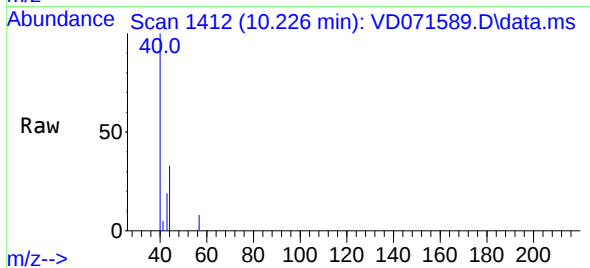




#51
4-Methyl-2-Pentanone
Concen: 3.752 ug/l
RT: 10.226 min Scan# 1411
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

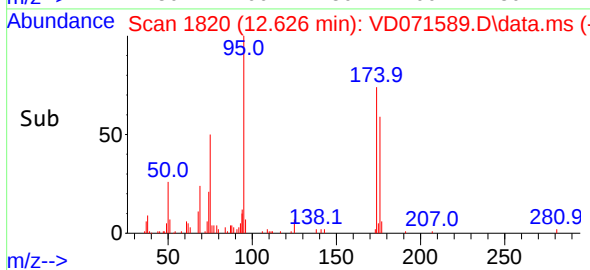
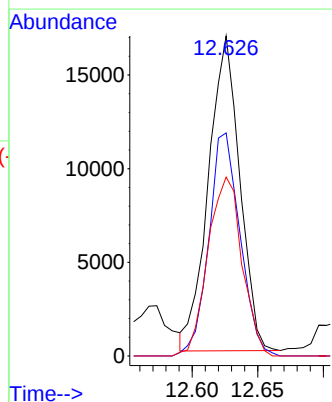
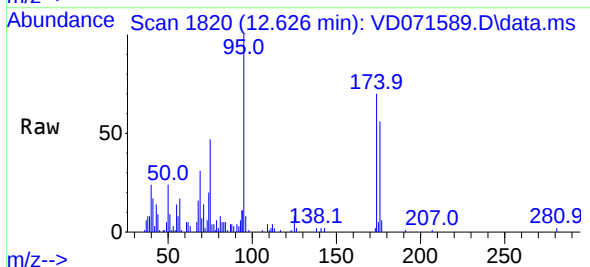
Instrument :
MSVOA_D
ClientSampleId :

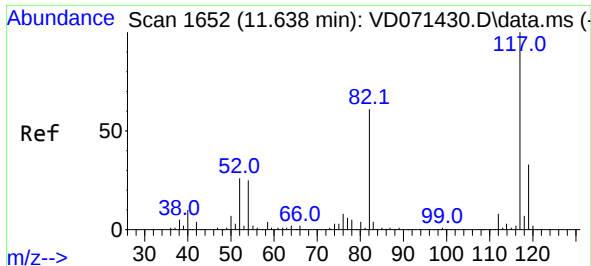
Tgt Ion: 43 Resp: 950
Ion Ratio Lower Upper
43 100
58 13.2 33.1 49.7#



#62
4-Bromofluorobenzene
Concen: 63.211 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion: 95 Resp: 27910
Ion Ratio Lower Upper
95 100
174 70.7 0.0 159.4
176 61.8 0.0 154.0

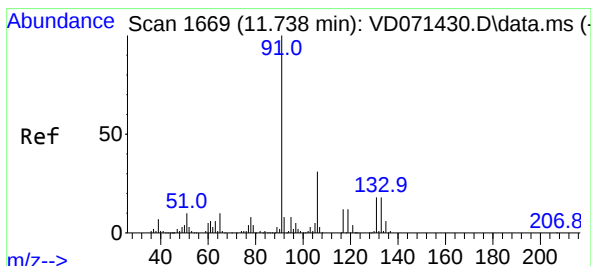
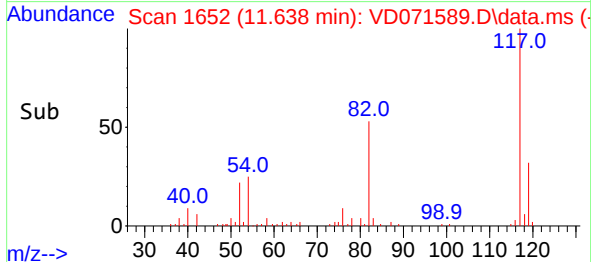
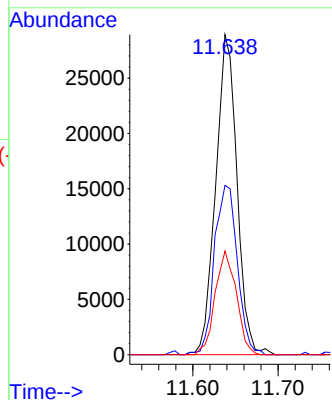
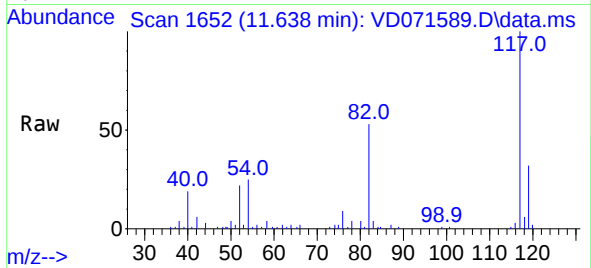




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

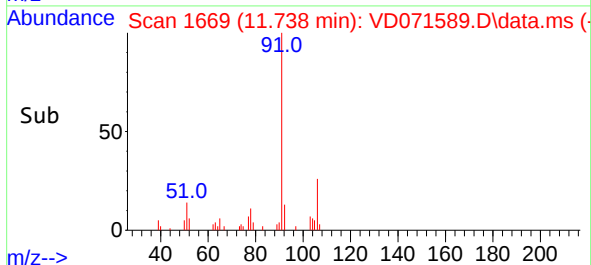
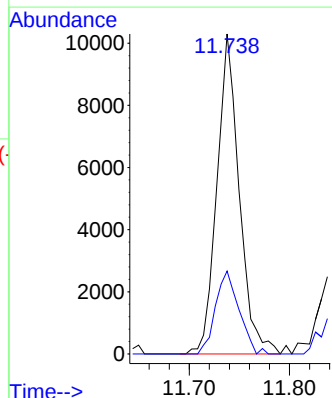
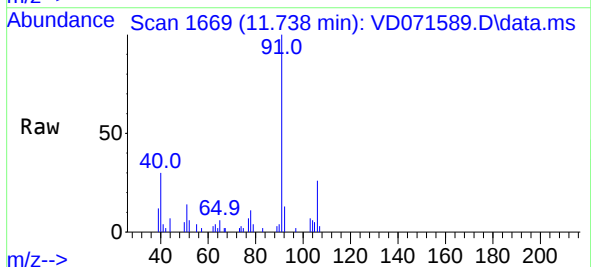
Instrument :
MSVOA_D
ClientSampleId :

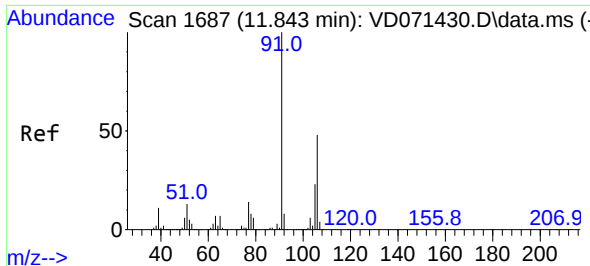
Tgt Ion:117 Resp: 50212
Ion Ratio Lower Upper
117 100
82 52.9 44.7 67.1
119 32.4 26.2 39.4



#67
Ethyl Benzene
Concen: 8.295 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. -0.000 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

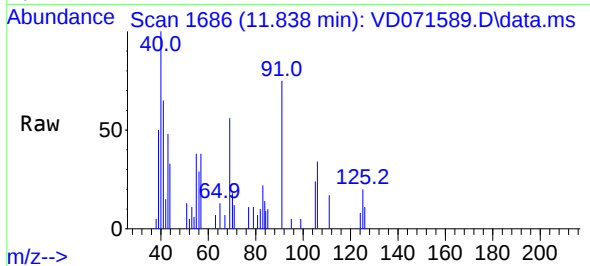
Tgt Ion: 91 Resp: 15900
Ion Ratio Lower Upper
91 100
106 25.9 24.6 36.8



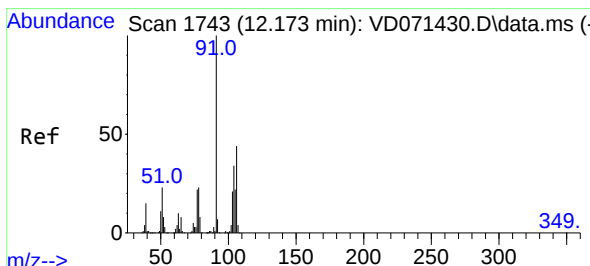
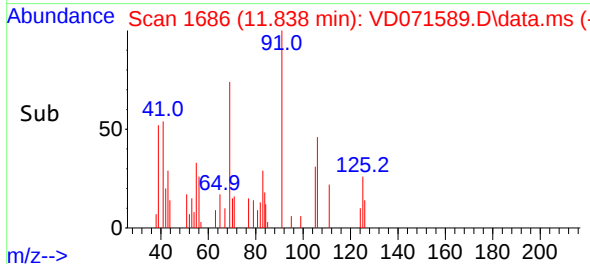
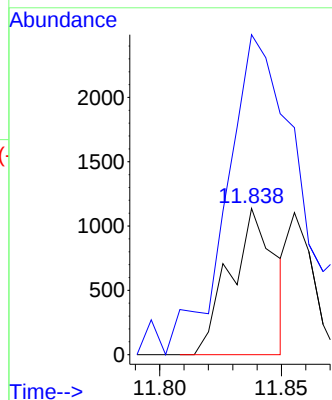


#68
m/p-Xylenes
Concen: 2.006 ug/l
RT: 11.838 min Scan# 11838
Delta R.T. -0.005 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Instrument :
MSVOA_D
ClientSampleId :

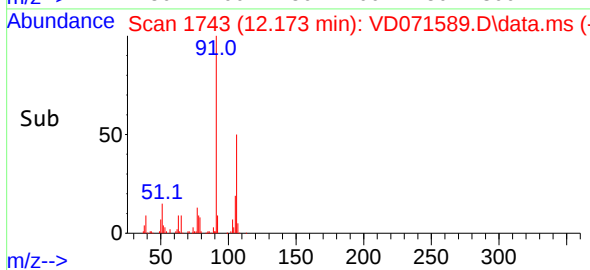
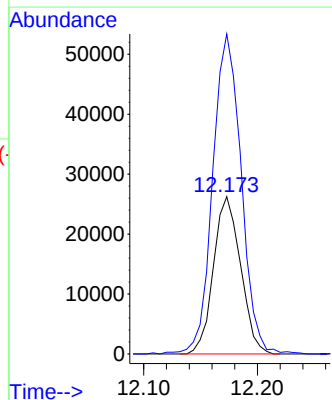
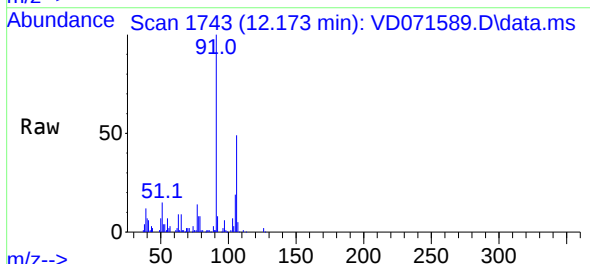


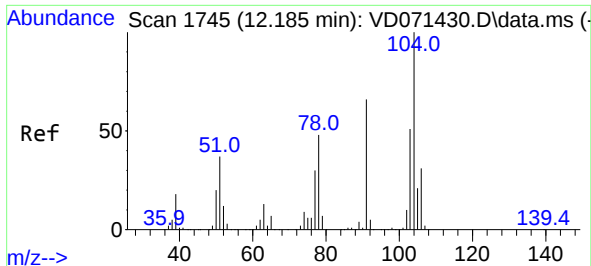
Tgt Ion:106 Resp: 1461
Ion Ratio Lower Upper
106 100
91 367.1 160.1 240.1#



#69
o-Xylene
Concen: 65.318 ug/l
RT: 12.173 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

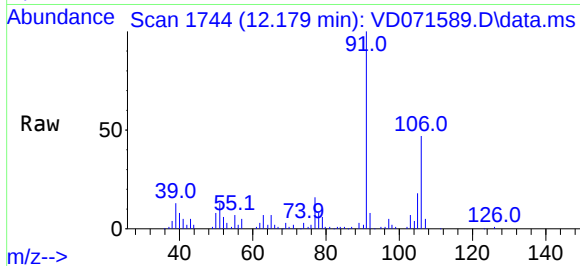
Tgt Ion:106 Resp: 43480
Ion Ratio Lower Upper
106 100
91 214.4 106.3 319.0



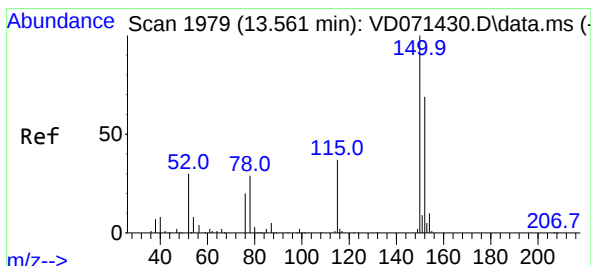
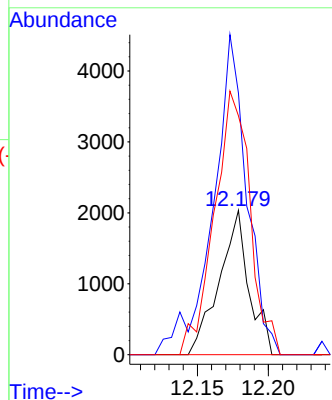
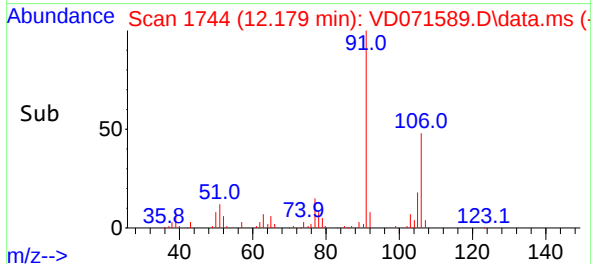


#70
Styrene
Concen: 2.569 ug/l
RT: 12.179 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

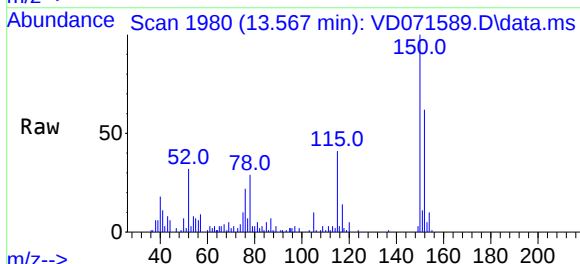
Instrument :
MSVOA_D
ClientSampleId :



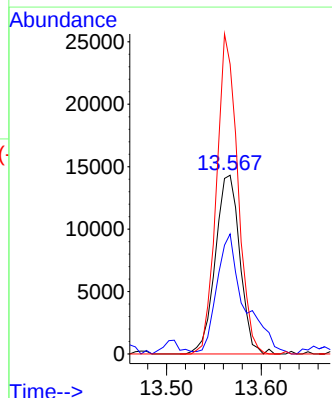
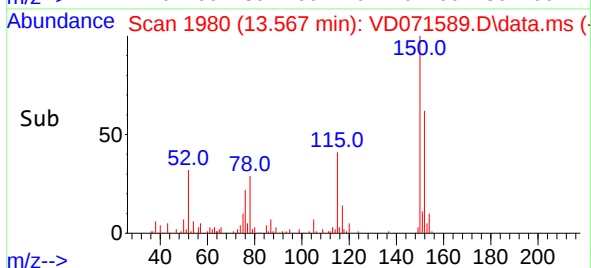
Tgt Ion:104 Resp: 2971
Ion Ratio Lower Upper
104 100
78 251.1 39.4 59.0#
103 218.5 43.4 65.0#

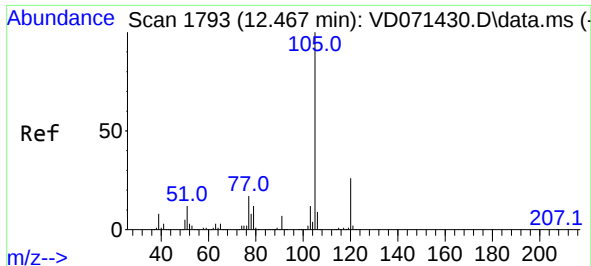


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25



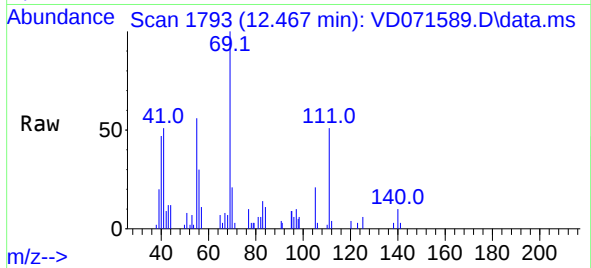
Tgt Ion:152 Resp: 25794
Ion Ratio Lower Upper
152 100
115 75.9 29.8 89.3
150 154.6 0.0 349.2



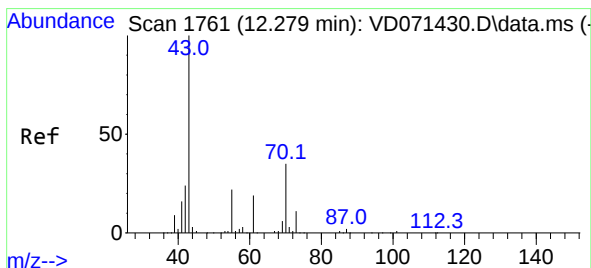
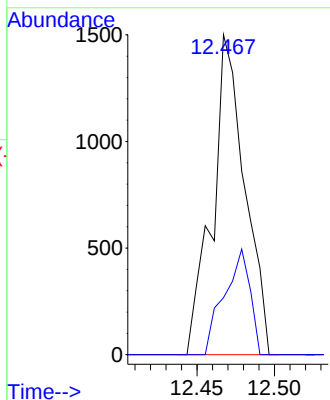


#73
Isopropylbenzene
Concen: 1.094 ug/l
RT: 12.467 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

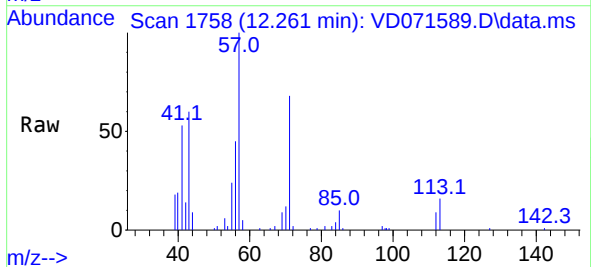
Instrument :
MSVOA_D
ClientSampleId :



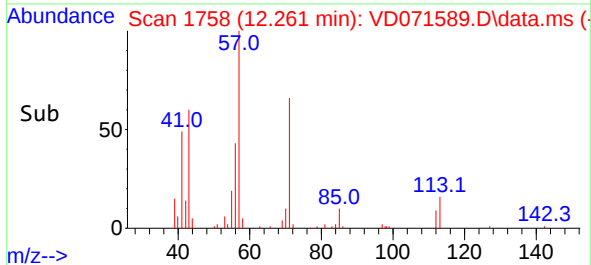
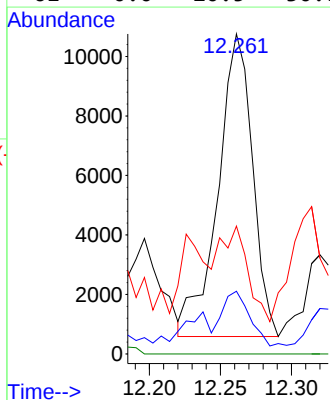
Tgt Ion:105 Resp: 2176
Ion Ratio Lower Upper
105 100
120 26.3 13.2 39.5

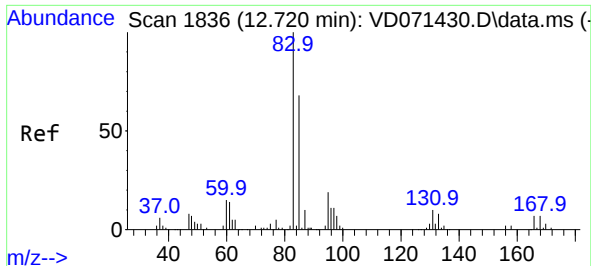


#74
N-ethyl acetate
Concen: 32.264 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25



Tgt Ion: 43 Resp: 17214
Ion Ratio Lower Upper
43 100
70 14.1 36.6 55.0#
55 25.0 22.5 33.7
61 0.0 20.5 30.7#

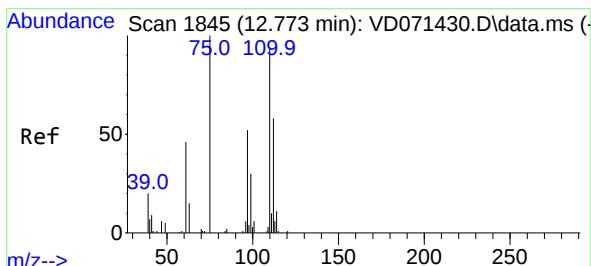
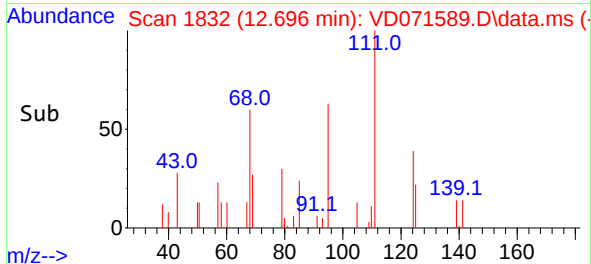
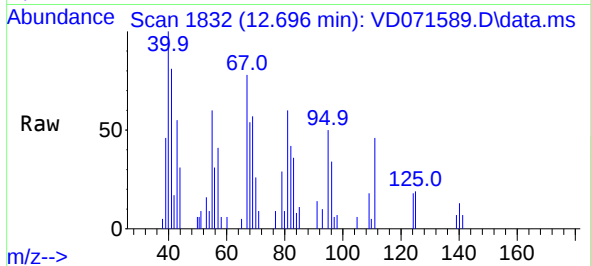




#75
1,1,2,2-Tetrachloroethane
Concen: 1.780 ug/l
RT: 12.696 min Scan# 1832
Delta R.T. -0.024 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

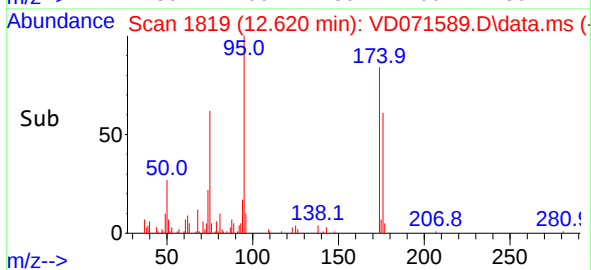
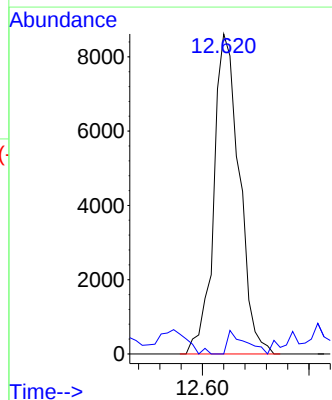
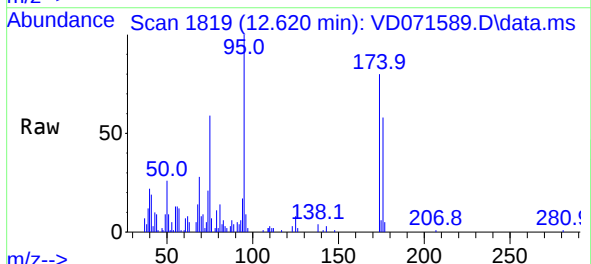
Instrument :
MSVOA_D
ClientSampleId :

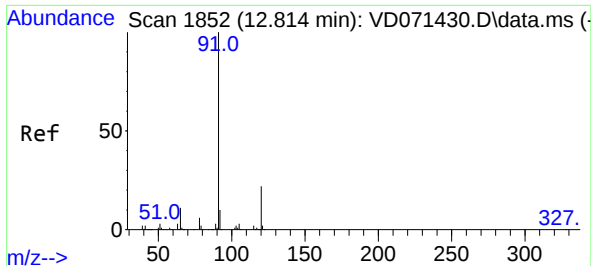
Tgt Ion: 83 Resp: 640
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 193.9 32.0 96.2#



#76
1,2,3-Trichloropropane
Concen: 46.770 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion: 75 Resp: 14334
Ion Ratio Lower Upper
75 100
77 5.1 158.4 475.3#

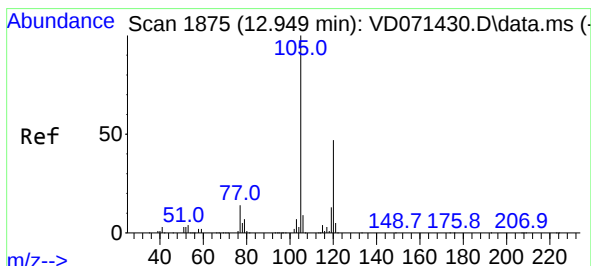
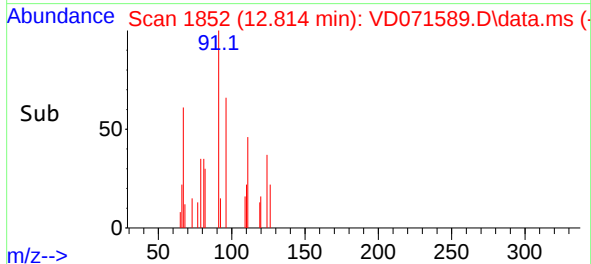
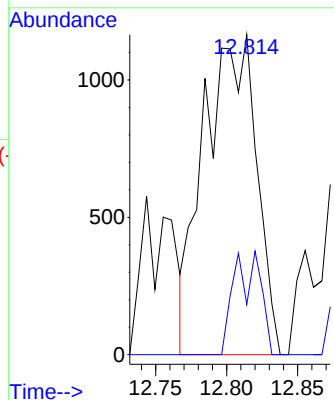
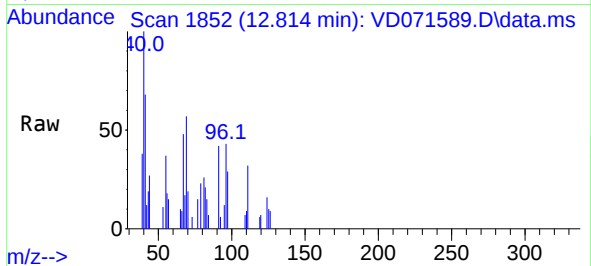




#78
n-propylbenzene
Concen: 1.200 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

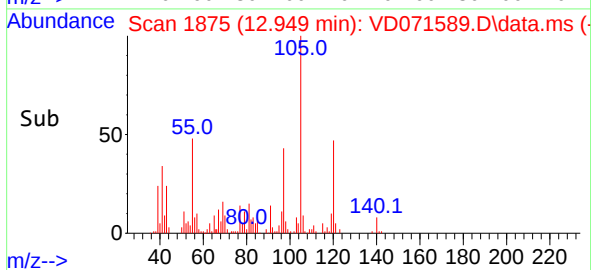
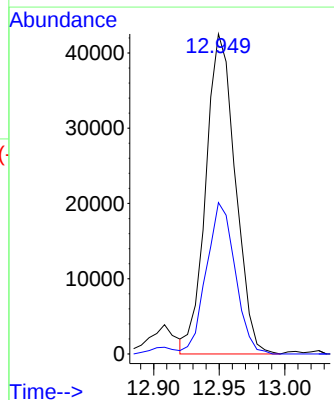
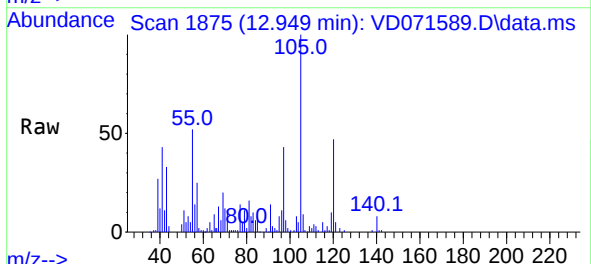
Instrument :
MSVOA_D
ClientSampleId :

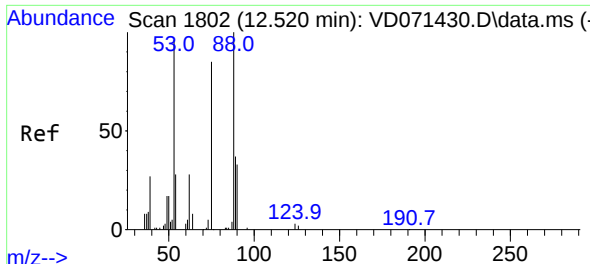
Tgt Ion: 91 Resp: 2992
Ion Ratio Lower Upper
91 100
120 0.0 10.9 32.9#



#80
1,3,5-Trimethylbenzene
Concen: 40.519 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

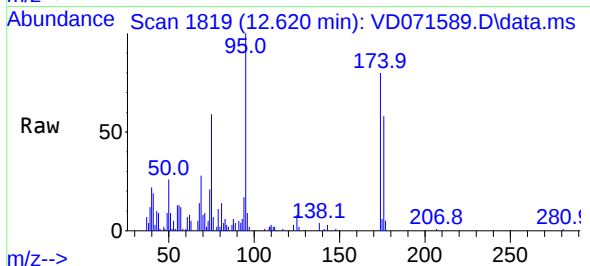
Tgt Ion:105 Resp: 66461
Ion Ratio Lower Upper
105 100
120 46.2 24.6 73.8



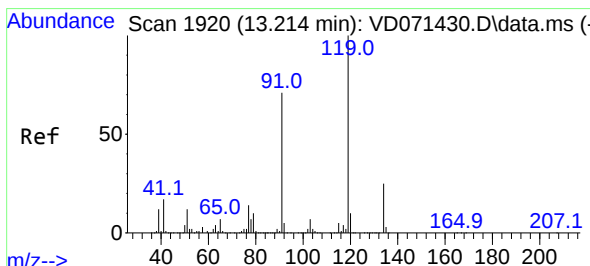
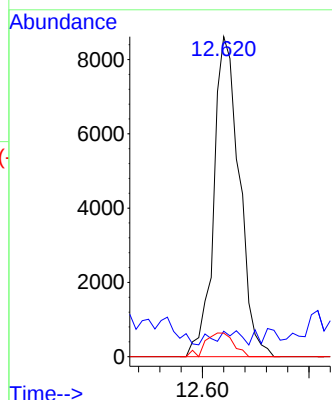
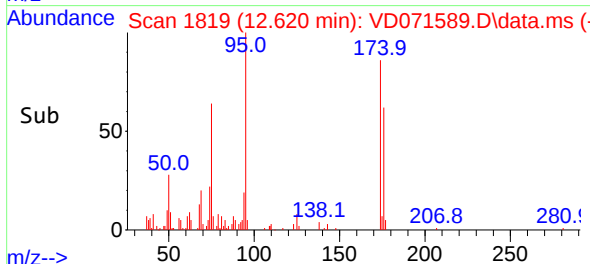


#81
trans-1,4-Dichloro-2-butene
Concen: 132.150 ug/l
RT: 12.620 min Scan# 1802
Delta R.T. 0.100 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

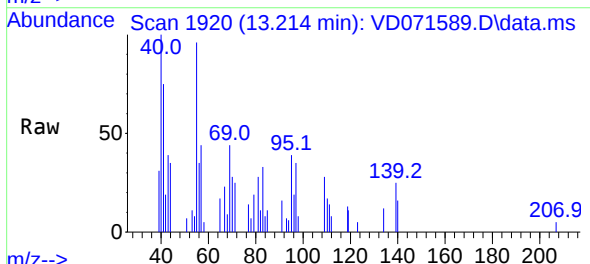
Instrument :
MSVOA_D
ClientSampleId :



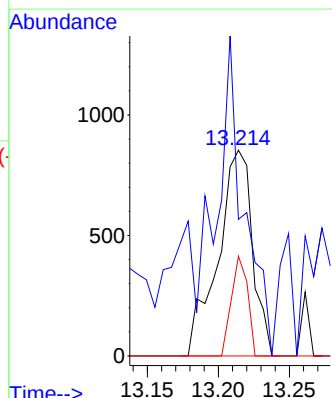
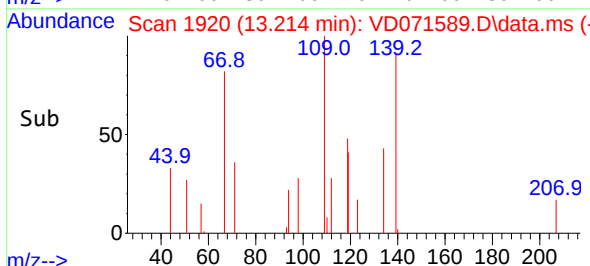
Tgt Ion: 75 Resp: 14334
Ion Ratio Lower Upper
75 100
53 4.4 62.6 94.0#
89 8.2 34.5 51.7#

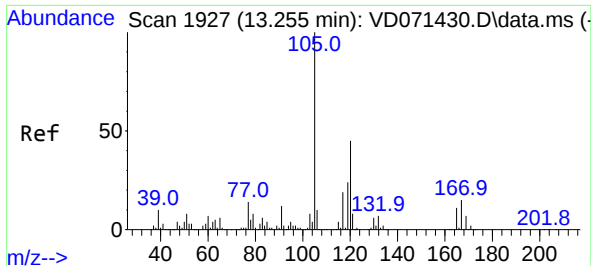


#83
tert-Butylbenzene
Concen: 1.034 ug/l
RT: 13.214 min Scan# 1920
Delta R.T. 0.000 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25



Tgt Ion: 119 Resp: 1449
Ion Ratio Lower Upper
119 100
91 121.9 32.5 97.5#
134 22.6 13.2 39.6

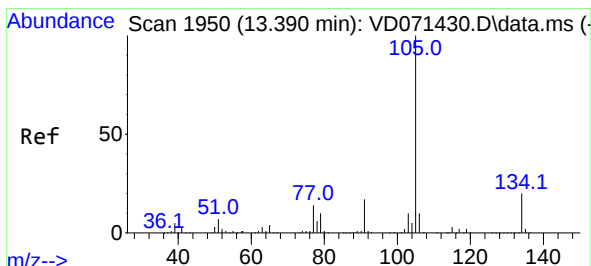
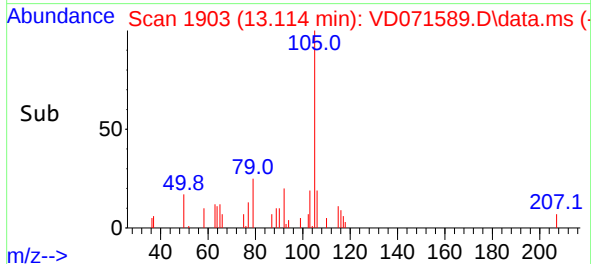
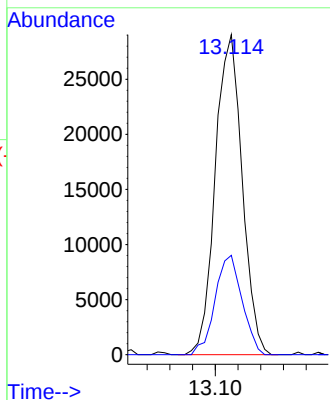
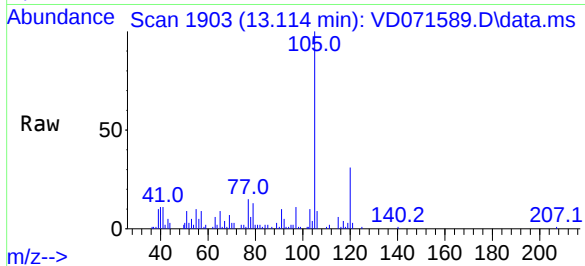




#84
1,2,4-Trimethylbenzene
Concen: 29.394 ug/l
RT: 13.114 min Scan# 1927
Delta R.T. -0.147 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

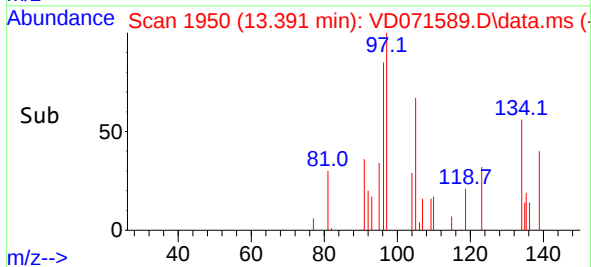
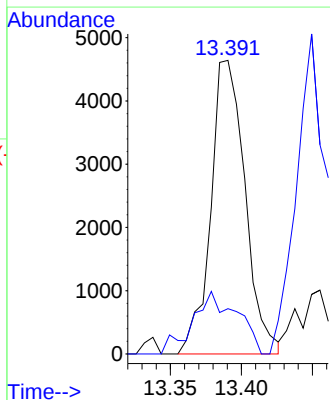
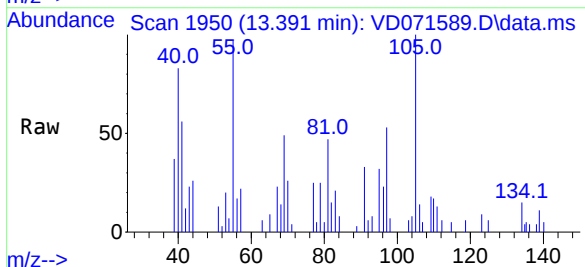
Instrument :
MSVOA_D
ClientSampleId :

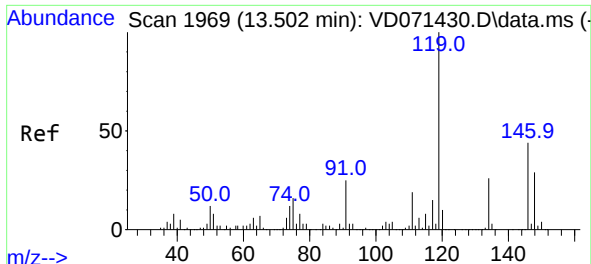
Tgt Ion:105 Resp: 47718
Ion Ratio Lower Upper
105 100
120 31.2 22.9 68.7



#85
sec-Butylbenzene
Concen: 3.653 ug/l
RT: 13.391 min Scan# 1950
Delta R.T. 0.001 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion:105 Resp: 7805
Ion Ratio Lower Upper
105 100
134 27.3 9.7 28.9

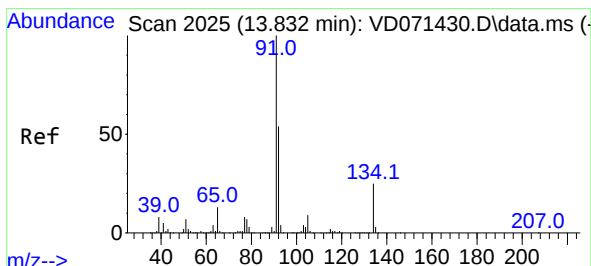
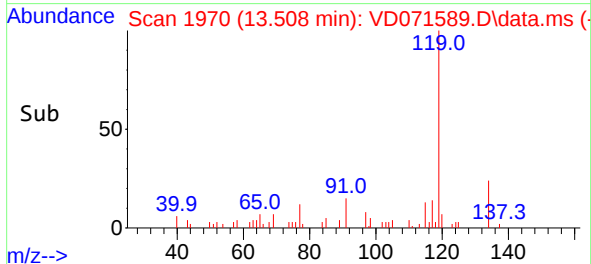
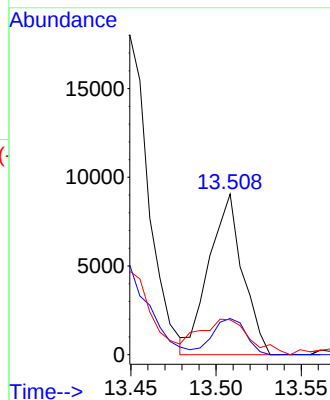
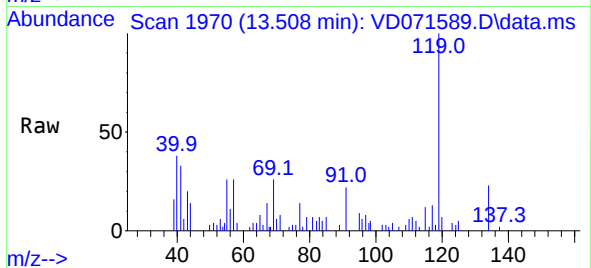




#86
p-Isopropyltoluene
Concen: 7.042 ug/l
RT: 13.508 min Scan# 1969
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

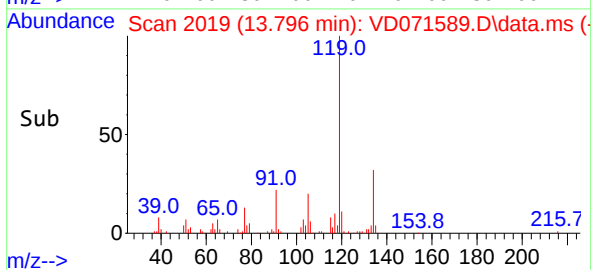
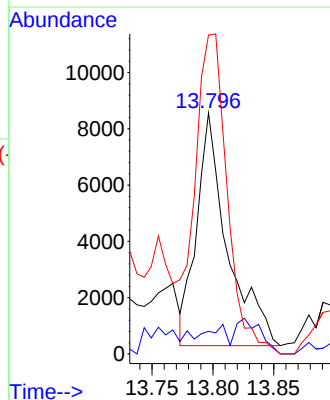
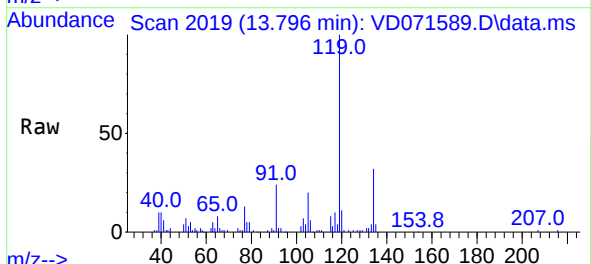
Instrument :
MSVOA_D
ClientSampleId :

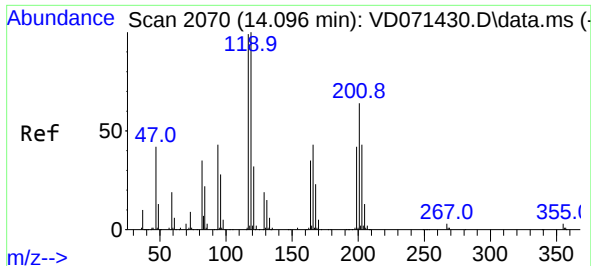
Tgt Ion:119 Resp: 12486
Ion Ratio Lower Upper
119 100
134 22.3 13.0 38.9
91 32.9 11.4 34.2



#89
n-Butylbenzene
Concen: 8.412 ug/l
RT: 13.796 min Scan# 2019
Delta R.T. -0.036 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion: 91 Resp: 14638
Ion Ratio Lower Upper
91 100
92 5.6 27.3 81.9#
134 147.8 12.3 36.9#

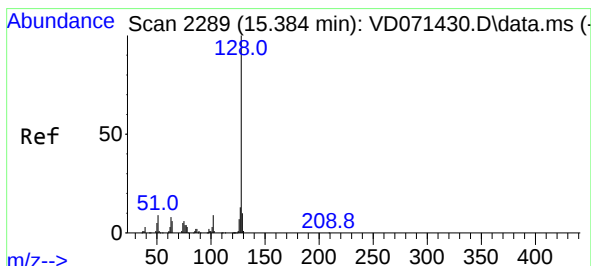
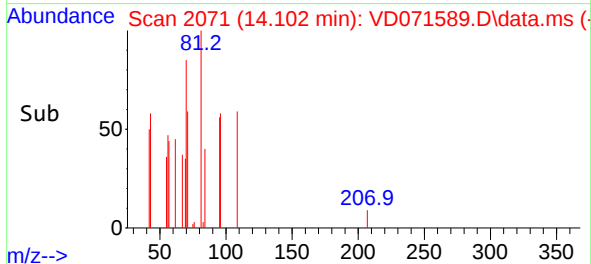
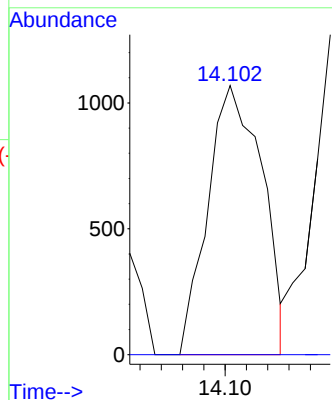
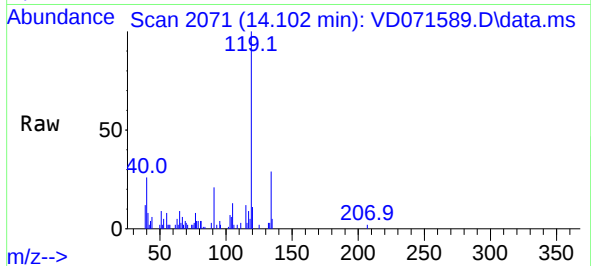




#90
Hexachloroethane
Concen: 5.666 ug/l
RT: 14.102 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:117 Resp: 1903
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#



#95
Naphthalene
Concen: 1.236 ug/l
RT: 15.379 min Scan# 2288
Delta R.T. -0.000 min
Lab File: VD071589.D
Acq: 04 Jan 2022 13:25

Tgt Ion:128 Resp: 1084
Ion Ratio Lower Upper
128 100
127 5.4 10.7 16.1#
129 0.0 8.7 13.1#

