

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122823\
 Data File : VD078089.D
 Acq On : 28 Dec 2023 13:41
 Operator : RP/MD
 Sample : 06031-03RE
 Misc : 5.77G/5.0ml/MSVOA_D/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MR-321-10-12RE

Quant Time: Dec 28 22:24:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122623S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 27 03:40:16 2023
 Response via : Initial Calibration

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

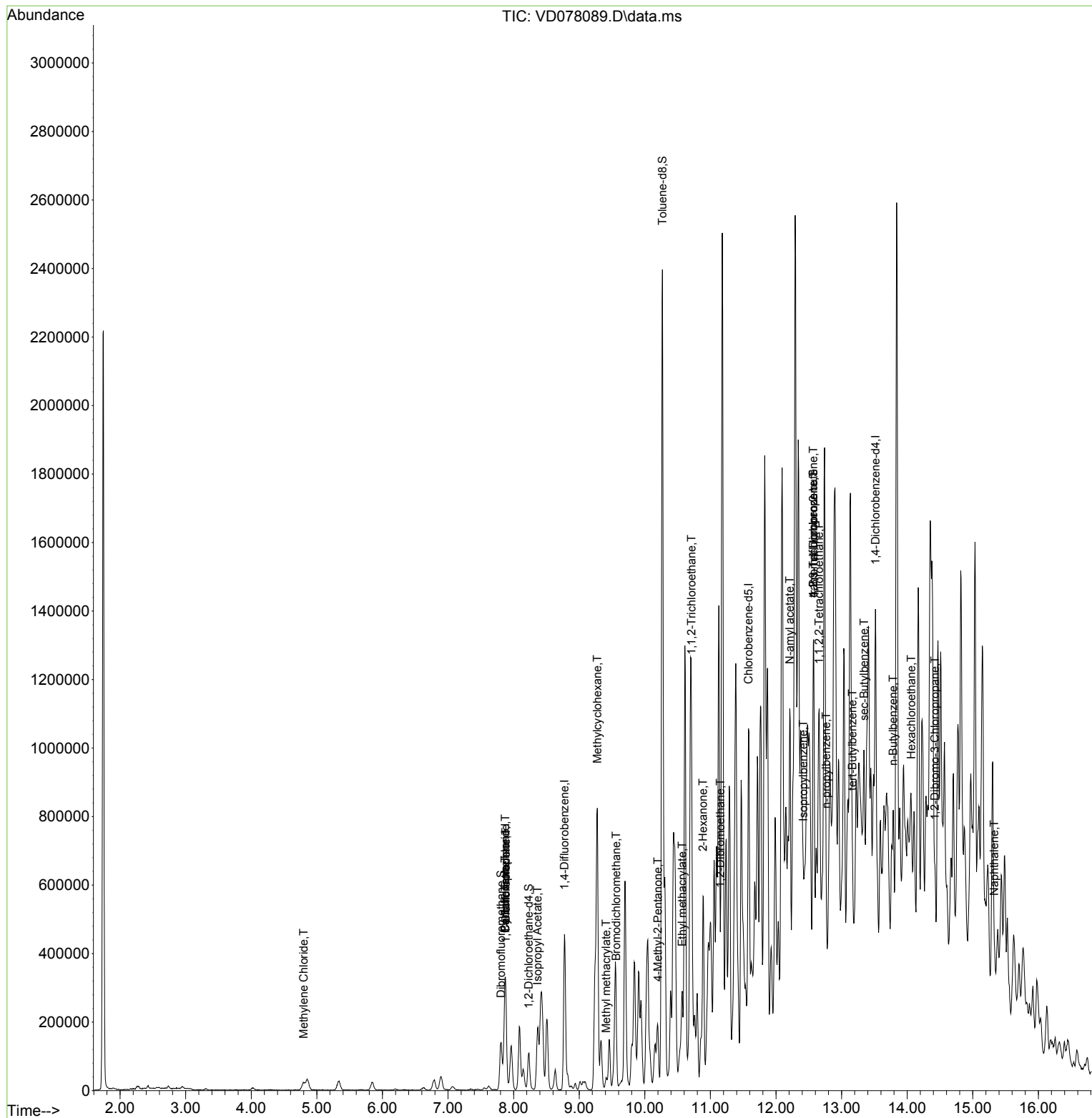
Internal Standards						
1) Pentafluorobenzene	7.875	168	210003	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	351373	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	394062	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	239439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	84272	45.100	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	90.200%		
35) Dibromofluoromethane	7.810	113	101805	45.030	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	90.060%		
50) Toluene-d8	10.269	98	573512	72.093	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	144.180%#		
62) 4-Bromofluorobenzene	12.569	95	279335	109.130	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	218.260%#		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.052	59	227	Below Cal	#	73
16) Acetone	4.028	43	9921	Below Cal		88
20) Methylene Chloride	4.799	84	9944	1.239	ug/l	96
25) 2-Butanone	7.075	43	2356	Below Cal	#	67
31) Cyclohexane	7.869	56	41976	14.082	ug/l	86
36) 1,1-Dichloropropene	7.881	75	15548	4.888	ug/l	# 53
38) Carbon Tetrachloride	7.875	117	19466	5.647	ug/l	# 14
39) Methylcyclohexane	9.275	83	384112	105.321	ug/l	96
43) Isopropyl Acetate	8.363	43	19696	9.299	ug/l	# 43
47) Bromodichloromethane	9.563	83	20311	6.009	ug/l	# 31
48) Methyl methacrylate	9.410	41	7016	5.877	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.199	43	14991	13.793	ug/l	# 72
55) 1,1,2-Trichloroethane	10.710	97	398130	217.424	ug/l	# 21
56) Ethyl methacrylate	10.569	69	53883	37.080	ug/l	# 71
59) 2-Hexanone	10.887	43	180903	214.278	ug/l	# 21
61) 1,2-Dibromoethane	11.151	107	3174	1.808	ug/l	# 1
73) Isopropylbenzene	12.416	105	24439	1.482	ug/l	100
74) N-amyl acetate	12.210	43	149471	54.597	ug/l	# 35
75) 1,1,2,2-Tetrachloroethane	12.657	83	34440	11.491	ug/l	# 42
76) 1,2,3-Trichloropropane	12.569	75	83257	41.215	ug/l	# 100
78) n-propylbenzene	12.763	91	58362	2.940	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.569	75	83257	88.809	ug/l	# 30
83) tert-Butylbenzene	13.163	119	12307	1.007	ug/l	# 1
85) sec-Butylbenzene	13.345	105	122945	7.048	ug/l	# 53
89) n-Butylbenzene	13.787	91	92365	6.446	ug/l	# 74
90) Hexachloroethane	14.063	117	9963	3.192	ug/l	# 11
92) 1,2-Dibromo-3-Chloropr...	14.422	75	469	1.117	ug/l	# 1
95) Naphthalene	15.328	128	57564	7.265	ug/l	# 88

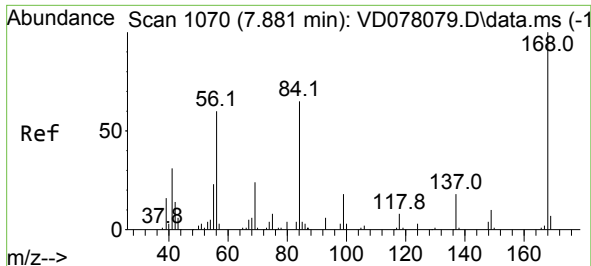
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Dec 27 03:40:16 2023
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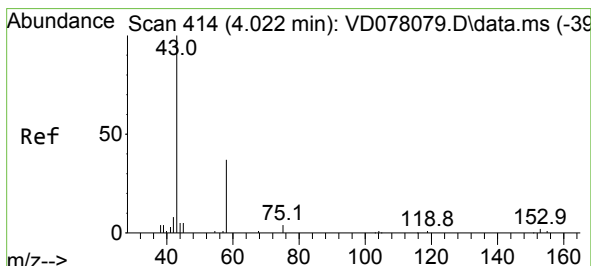
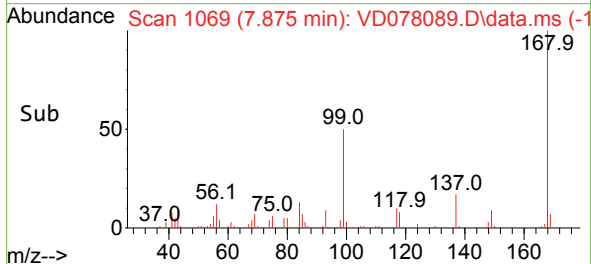
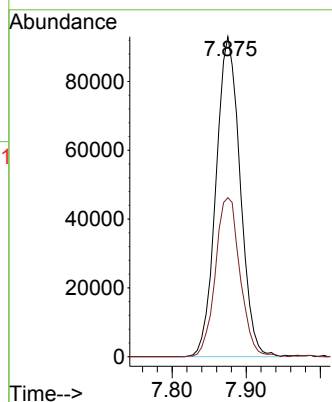
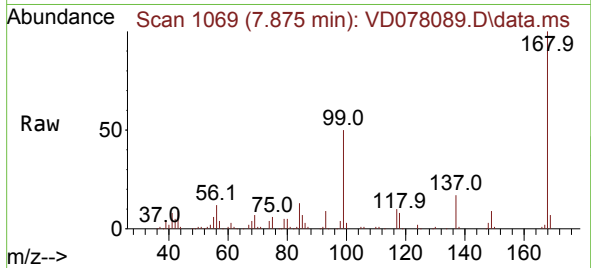




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.006 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

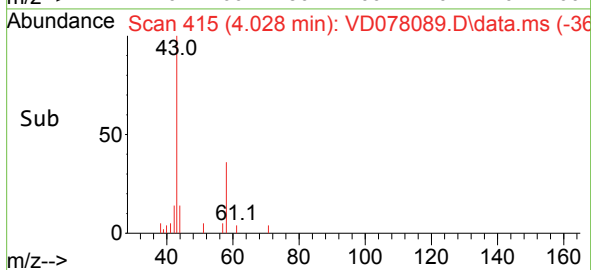
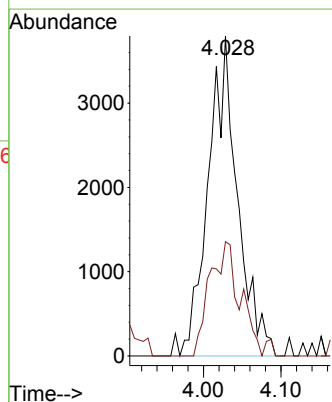
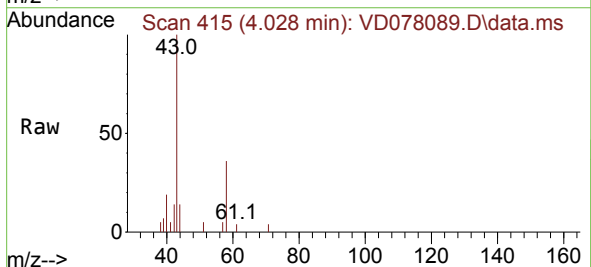
Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE

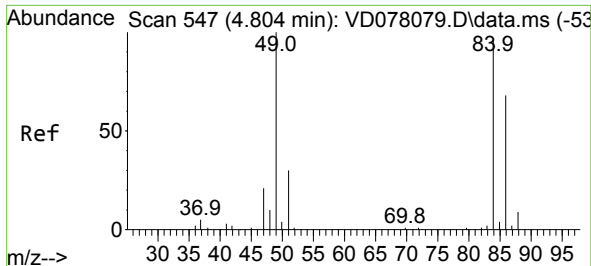
Tgt Ion:168 Resp: 210003
Ion Ratio Lower Upper
168 100
99 49.7 36.7 55.1



#16
Acetone
Concen: Below Cal
RT: 4.028 min Scan# 415
Delta R.T. 0.006 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Tgt Ion: 43 Resp: 9921
Ion Ratio Lower Upper
43 100
58 35.7 34.7 52.1



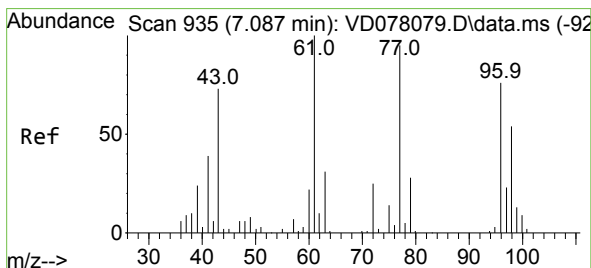
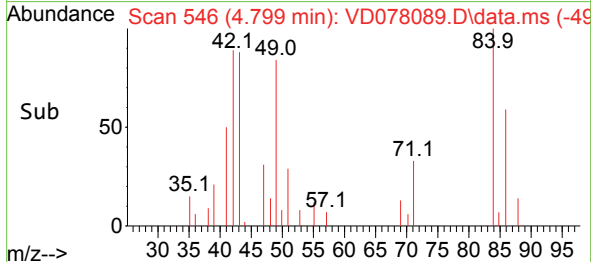
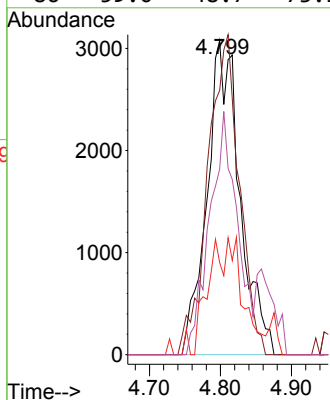
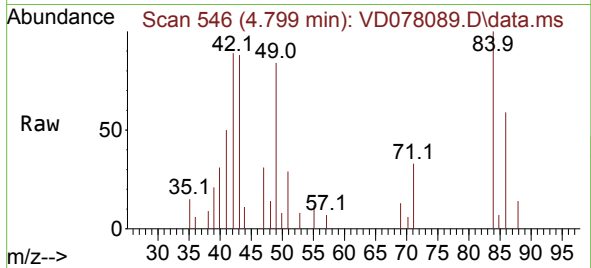


#20
Methylene Chloride
Concen: 1.239 ug/l
RT: 4.799 min Scan# 54
Delta R.T. -0.005 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE

Tgt Ion: 84 Resp: 9944

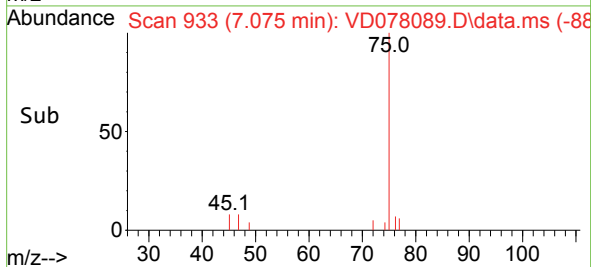
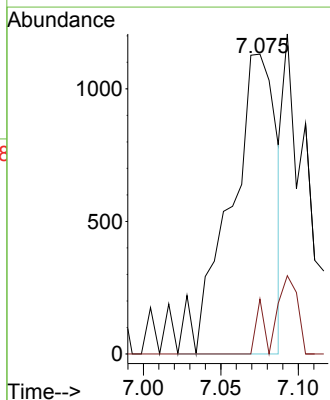
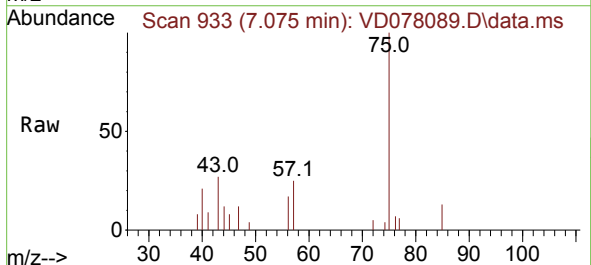
Ion	Ratio	Lower	Upper
84	100		
49	84.1	71.4	107.2
51	29.3	24.5	36.7
86	59.0	48.7	73.1

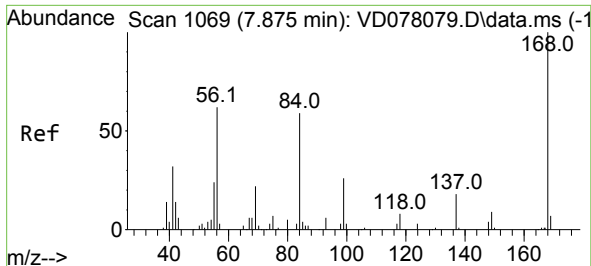


#25
2-Butanone
Concen: Below Cal
RT: 7.075 min Scan# 933
Delta R.T. -0.012 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Tgt Ion: 43 Resp: 2356

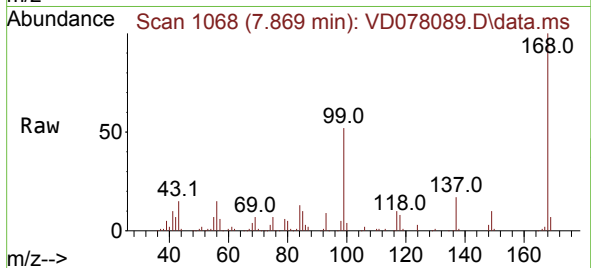
Ion	Ratio	Lower	Upper
43	100		
72	18.3	30.7	46.1#



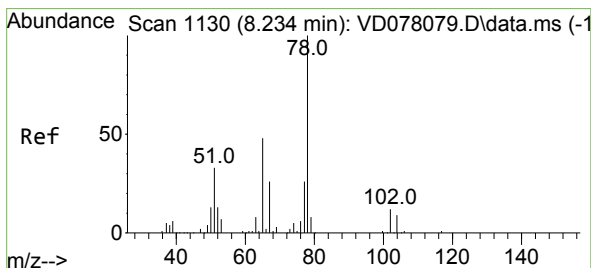
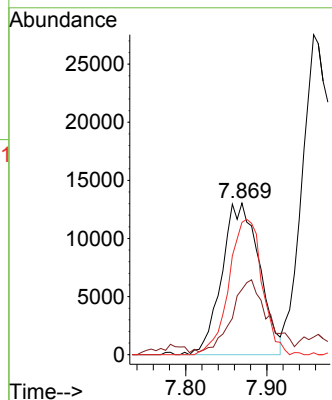
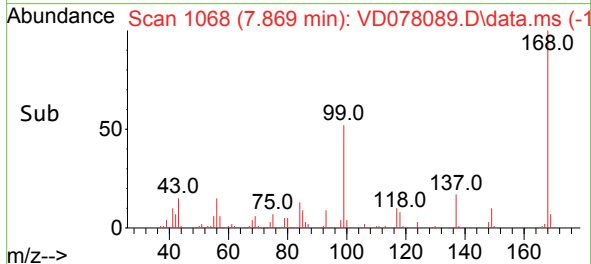


#31
Cyclohexane
Concen: 14.082 ug/l
RT: 7.869 min Scan# 1109
Delta R.T. -0.006 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE

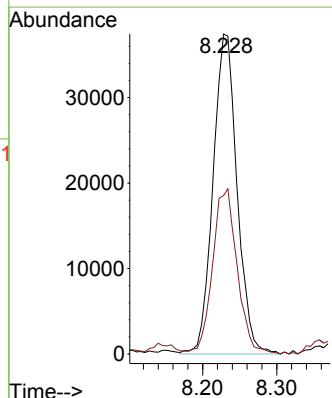
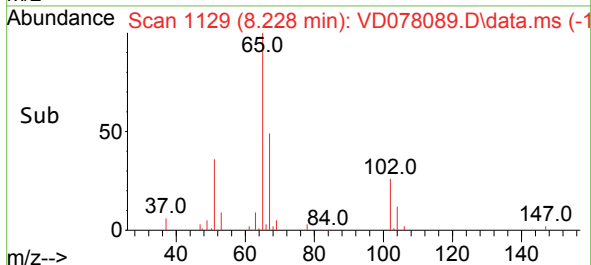
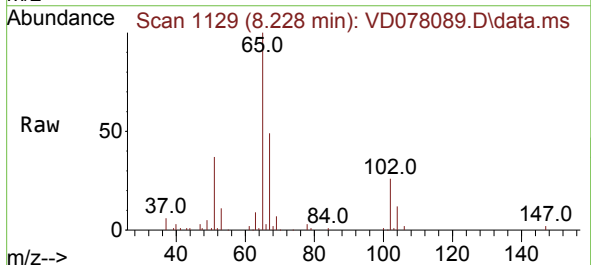


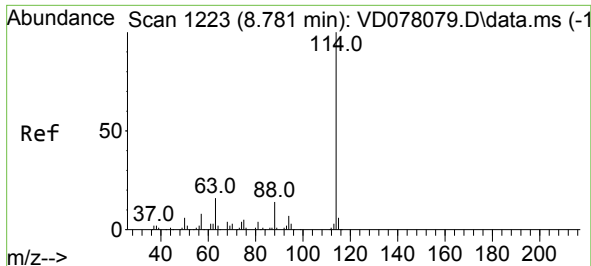
Tgt Ion: 56 Resp: 41976
Ion Ratio Lower Upper
56 100
69 38.0 28.6 43.0
84 87.3 84.8 127.2



#33
1,2-Dichloroethane-d4
Concen: 45.100 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.006 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Tgt Ion: 65 Resp: 84272
Ion Ratio Lower Upper
65 100
67 52.8 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD078089.D

Acq: 28 Dec 2023 13:41

Instrument :

MSVOA_D

ClientSampleId :

MR-321-10-12RE

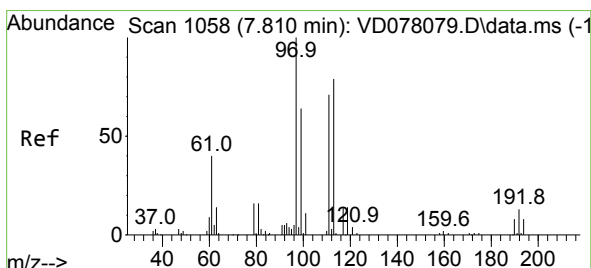
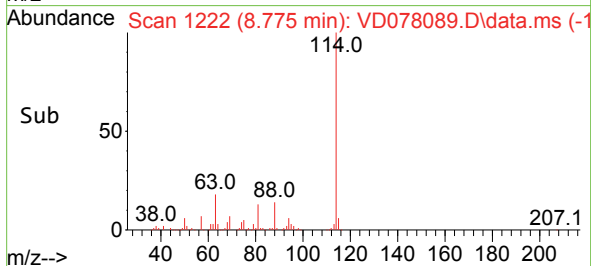
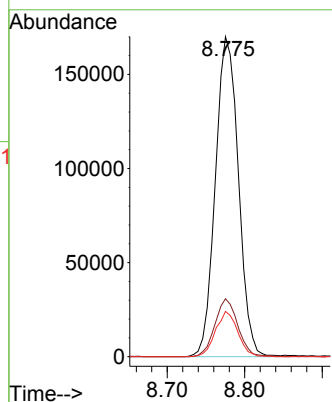
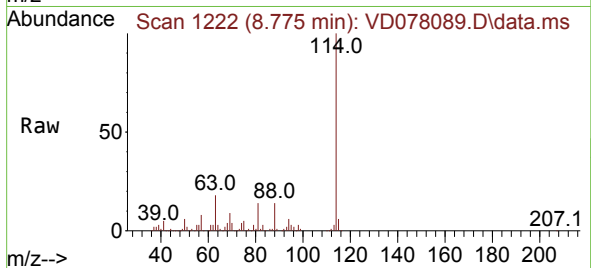
Tgt Ion:114 Resp: 351373

Ion Ratio Lower Upper

114 100

63 18.1 0.0 33.4

88 14.1 0.0 26.2



#35

Dibromofluoromethane

Concen: 45.030 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VD078089.D

Acq: 28 Dec 2023 13:41

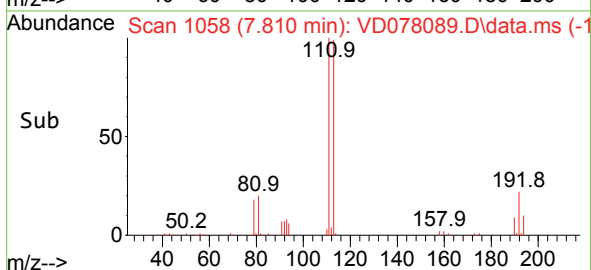
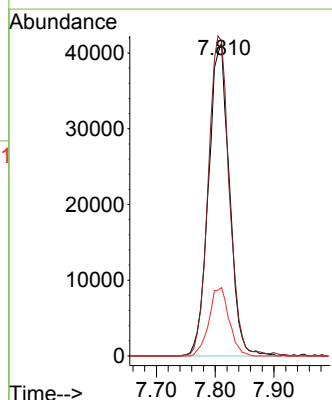
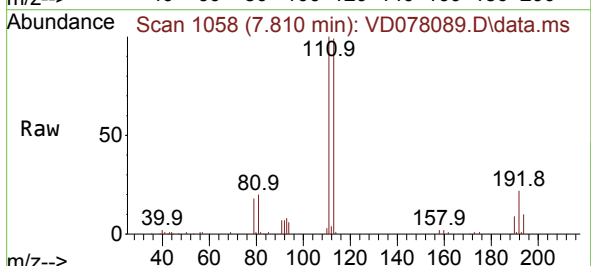
Tgt Ion:113 Resp: 101805

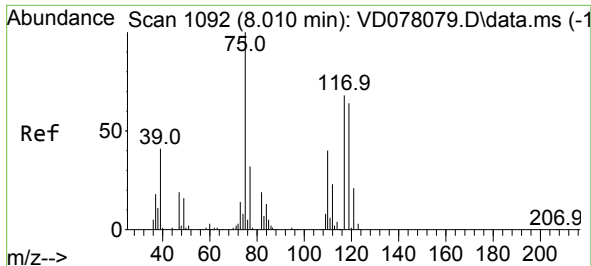
Ion Ratio Lower Upper

113 100

111 102.9 84.7 127.1

192 21.2 16.8 25.2

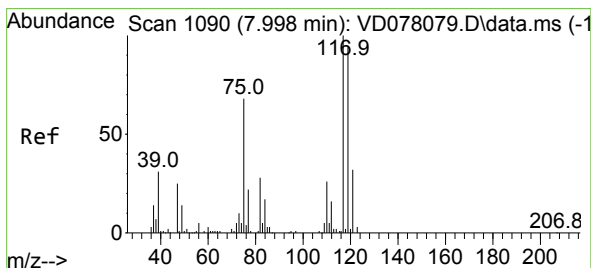
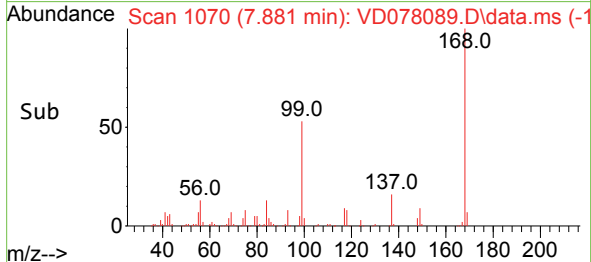
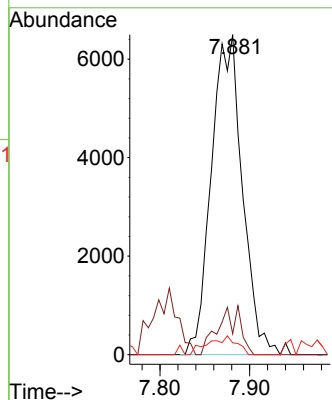
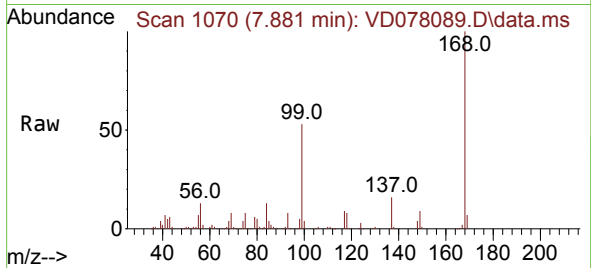




#36
1,1-Dichloropropene
Concen: 4.888 ug/l
RT: 7.881 min Scan# 1069
Delta R.T. -0.129 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

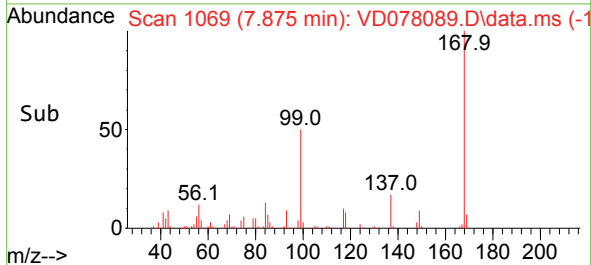
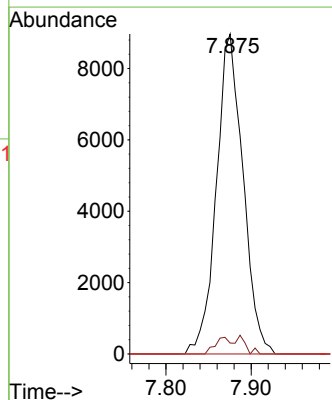
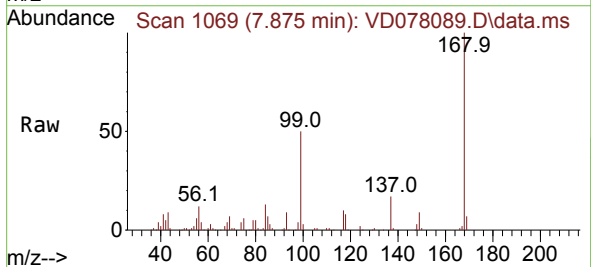
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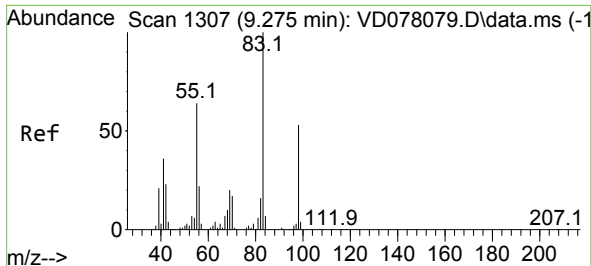
Tgt Ion: 75 Resp: 15548
Ion Ratio Lower Upper
75 100
110 10.9 19.9 59.6#
77 5.4 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 5.647 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.123 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Tgt Ion: 117 Resp: 19466
Ion Ratio Lower Upper
117 100
119 3.4 78.0 117.0#
121 0.0 24.2 36.2#

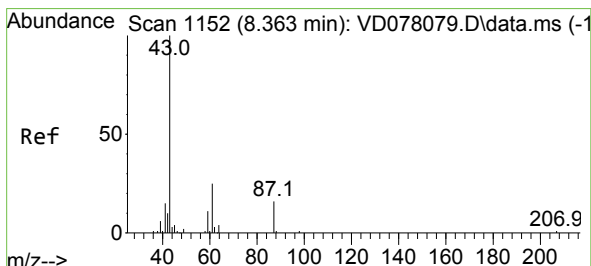
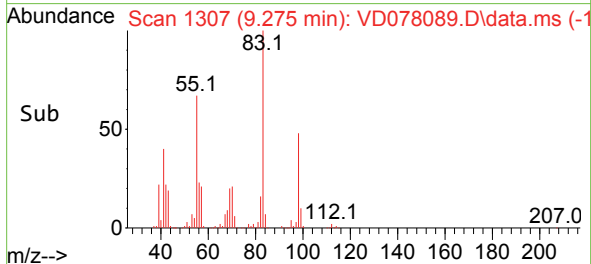
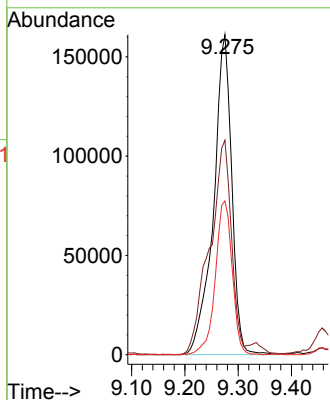
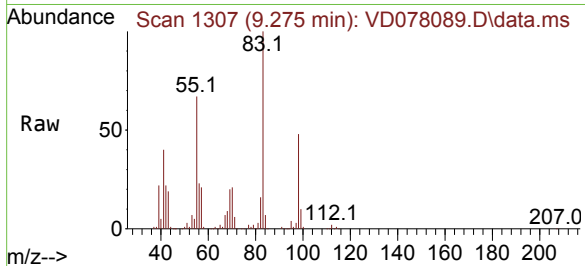




#39
Methylcyclohexane
Concen: 105.321 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

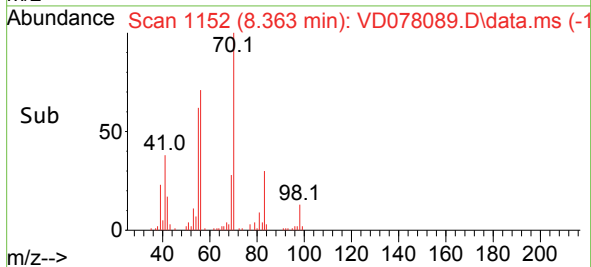
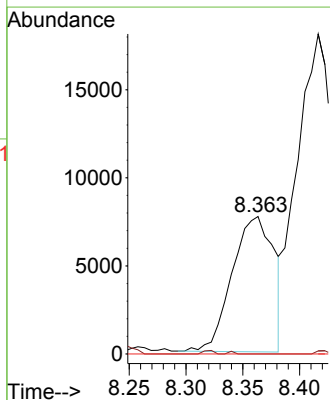
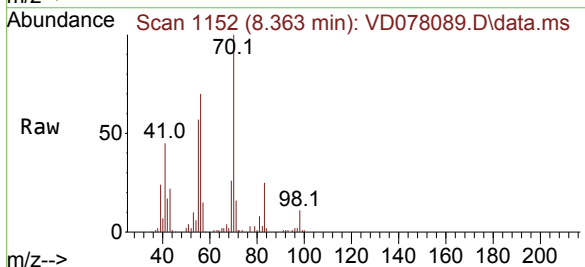
Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE

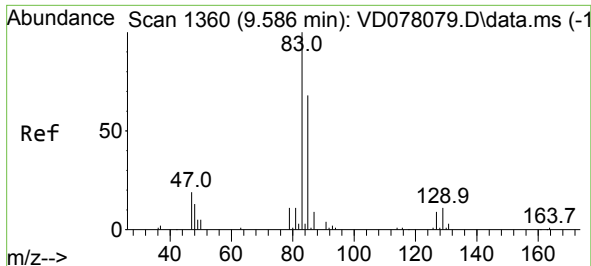
Tgt Ion: 83 Resp: 384112
Ion Ratio Lower Upper
83 100
55 66.9 49.4 74.0
98 48.1 38.4 57.6



#43
Isopropyl Acetate
Concen: 9.299 ug/l
RT: 8.363 min Scan# 1152
Delta R.T. 0.000 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Tgt Ion: 43 Resp: 19696
Ion Ratio Lower Upper
43 100
61 0.0 31.4 47.0#
87 0.0 14.9 22.3#





#47

Bromodichloromethane

Concen: 6.009 ug/l

RT: 9.563 min Scan# 1

Delta R.T. -0.023 min

Lab File: VD078089.D

Acq: 28 Dec 2023 13:41

Instrument :

MSVOA_D

ClientSampleId :

MR-321-10-12RE

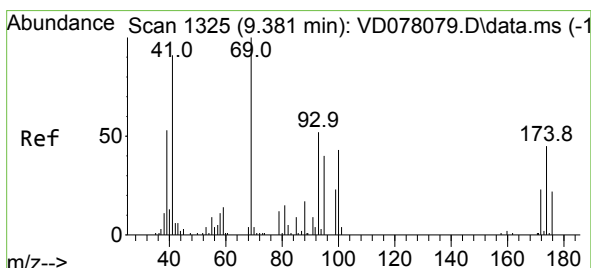
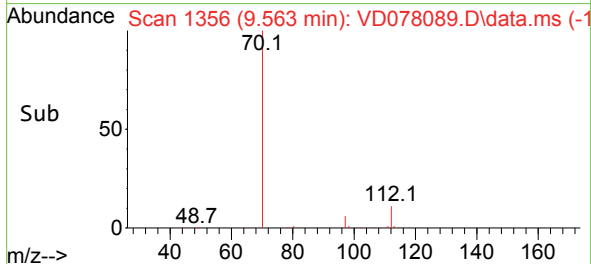
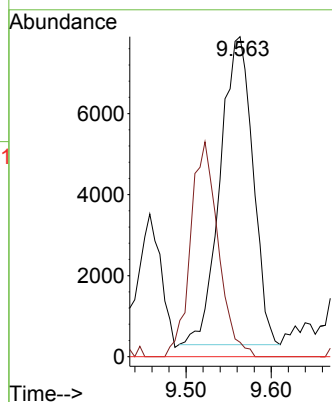
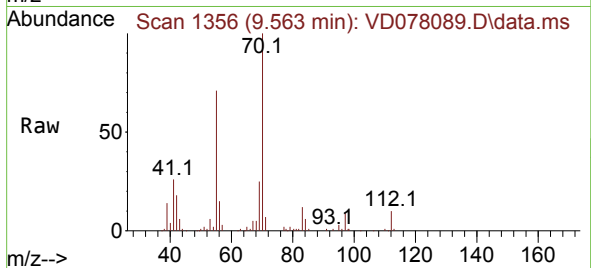
Tgt Ion: 83 Resp: 20311

Ion Ratio Lower Upper

83 100

85 4.7 50.2 75.4#

127 0.0 6.3 9.5#



#48

Methyl methacrylate

Concen: 5.877 ug/l

RT: 9.410 min Scan# 1330

Delta R.T. 0.030 min

Lab File: VD078089.D

Acq: 28 Dec 2023 13:41

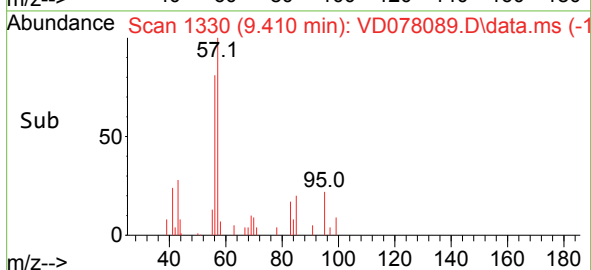
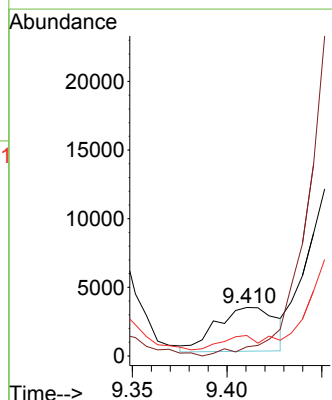
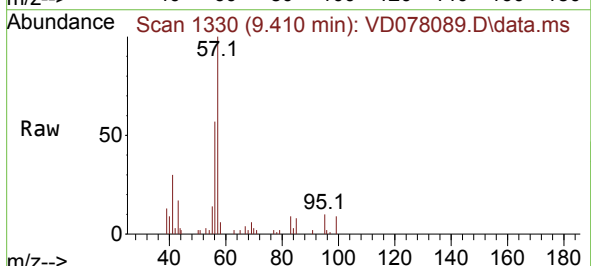
Tgt Ion: 41 Resp: 7016

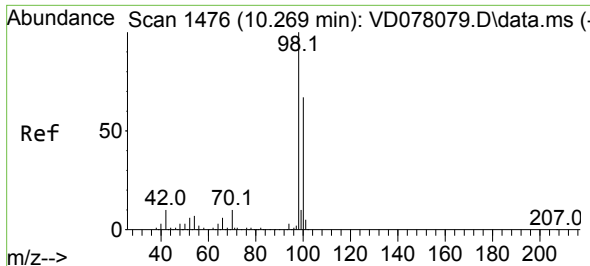
Ion Ratio Lower Upper

41 100

69 0.0 102.2 153.2#

39 0.0 41.4 62.2#

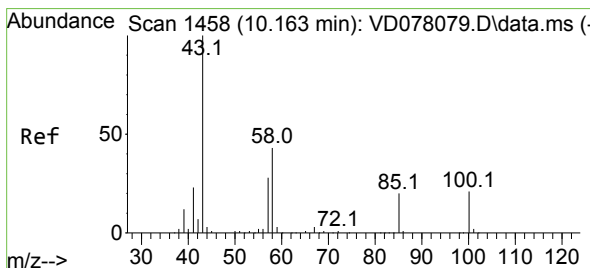
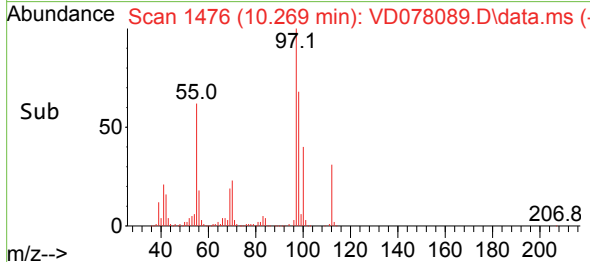
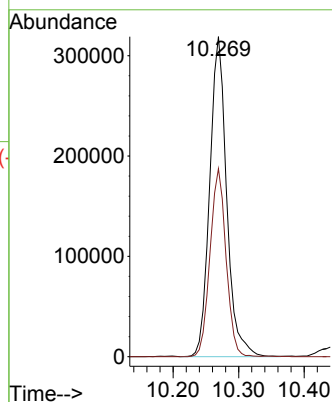
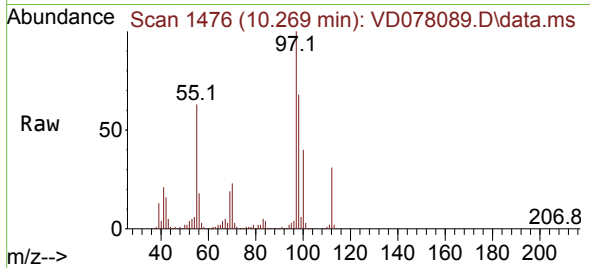




#50
Toluene-d8
Concen: 72.093 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

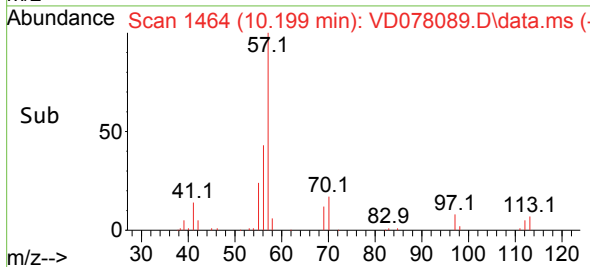
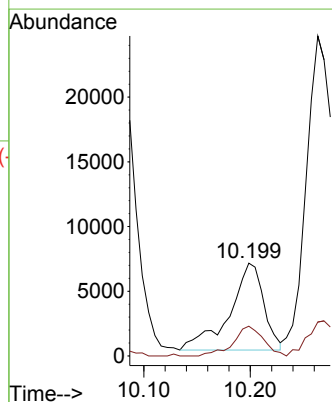
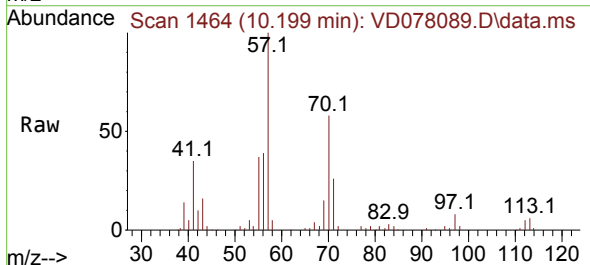
Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE

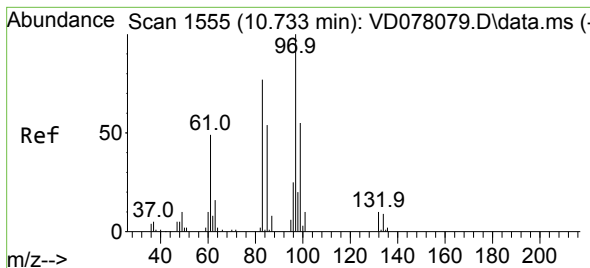
Tgt Ion: 98 Resp: 573512
Ion Ratio Lower Upper
98 100
100 55.4 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 13.793 ug/l
RT: 10.199 min Scan# 1464
Delta R.T. 0.036 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

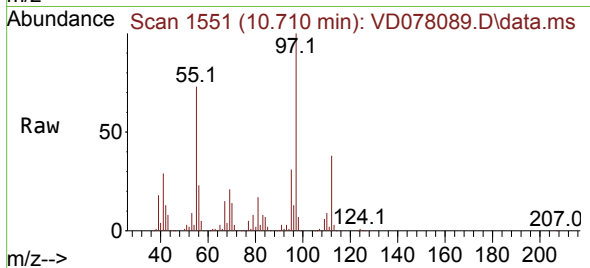
Tgt Ion: 43 Resp: 14991
Ion Ratio Lower Upper
43 100
58 29.9 38.9 58.3#



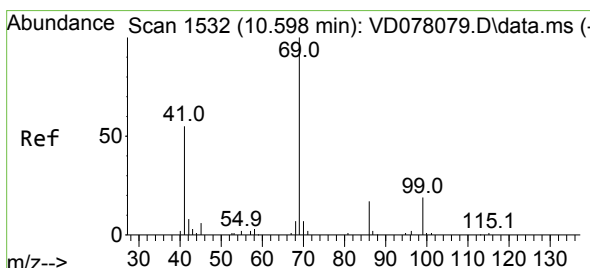
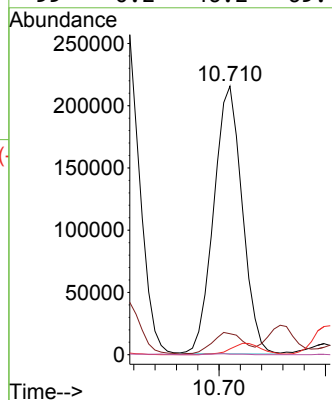
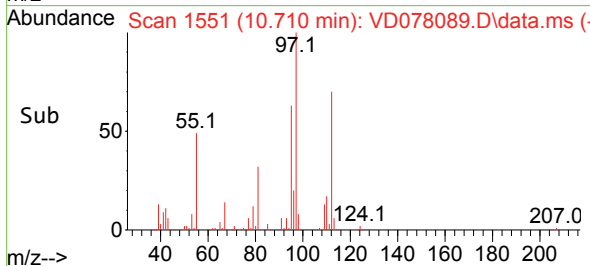


#55
1,1,2-Trichloroethane
Concen: 217.424 ug/l
RT: 10.710 min Scan# 1551
Delta R.T. -0.023 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

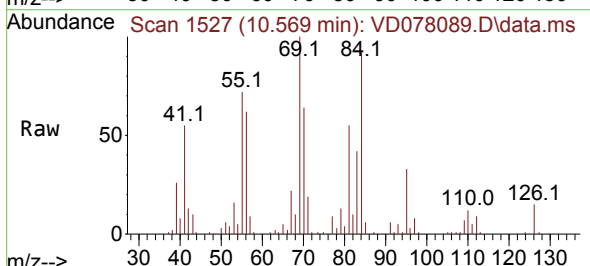
Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE



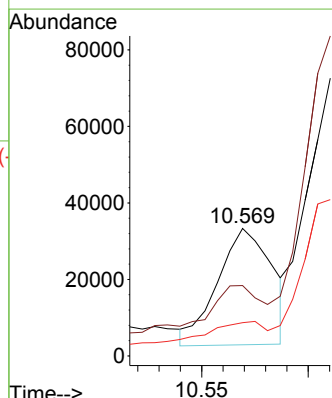
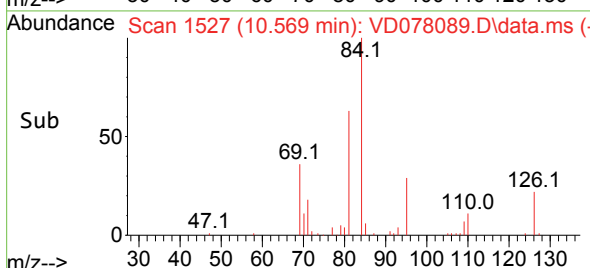
Tgt Ion: 97 Resp: 398130
Ion Ratio Lower Upper
97 100
83 7.6 65.8 98.6#
85 2.2 45.7 68.5#
99 0.2 46.2 69.4#

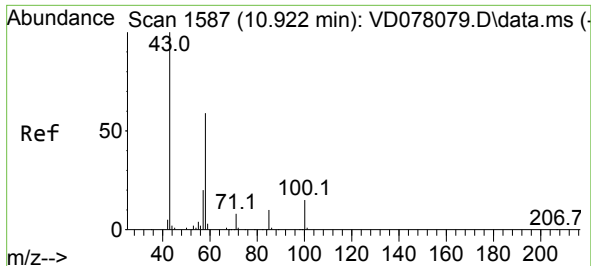


#56
Ethyl methacrylate
Concen: 37.080 ug/l
RT: 10.569 min Scan# 1527
Delta R.T. -0.029 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41



Tgt Ion: 69 Resp: 53883
Ion Ratio Lower Upper
69 100
41 72.3 39.1 58.7#
39 34.9 20.0 30.0#

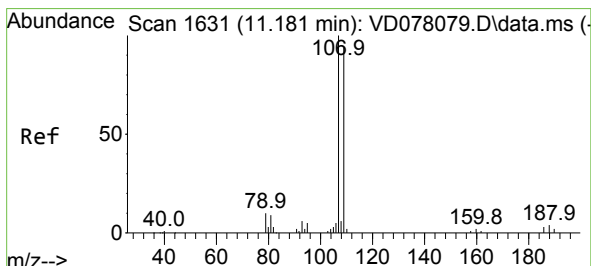
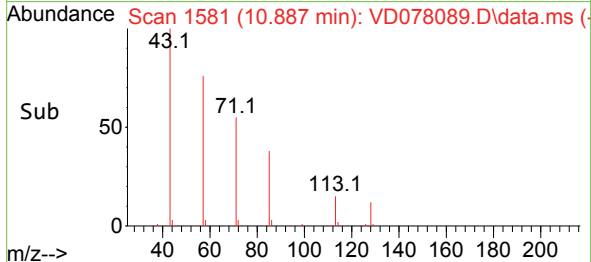
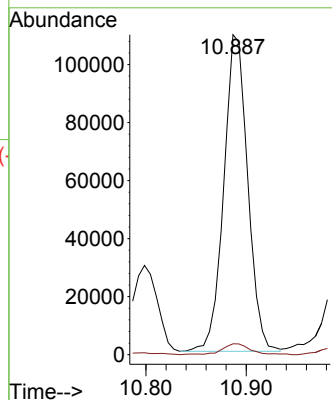
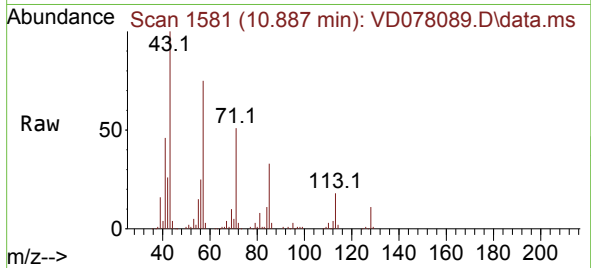




#59
2-Hexanone
Concen: 214.278 ug/l
RT: 10.887 min Scan# 1581
Delta R.T. -0.035 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

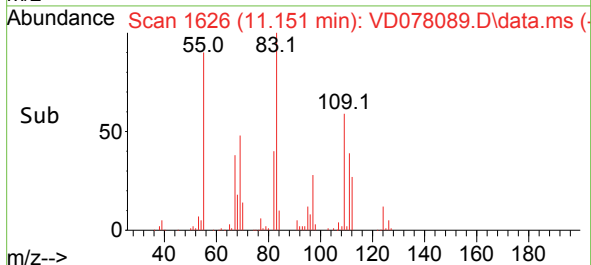
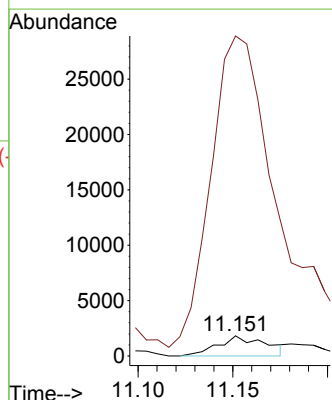
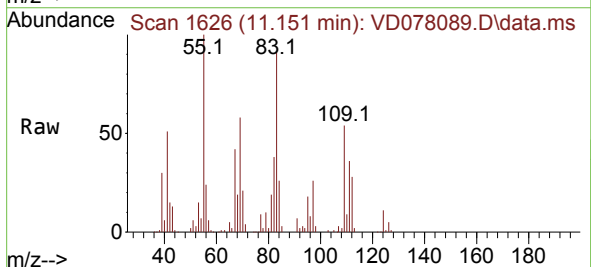
Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE

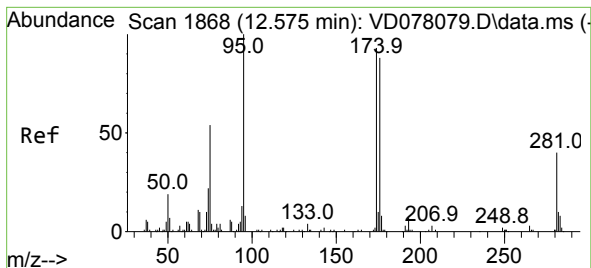
Tgt Ion: 43 Resp: 180903
Ion Ratio Lower Upper
43 100
58 4.1 34.1 102.2#



#61
1,2-Dibromoethane
Concen: 1.808 ug/l
RT: 11.151 min Scan# 1626
Delta R.T. -0.029 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Tgt Ion: 107 Resp: 3174
Ion Ratio Lower Upper
107 100
109 2176.4 75.6 113.4#

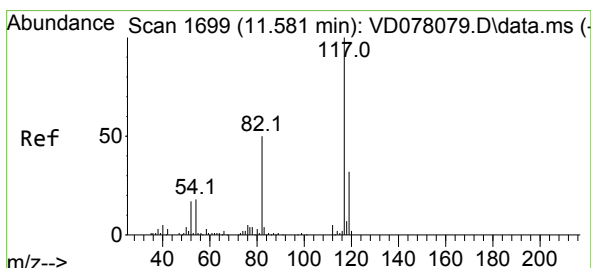
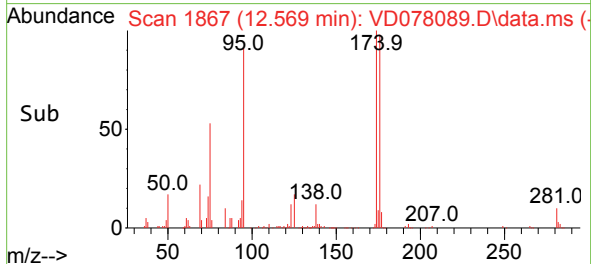
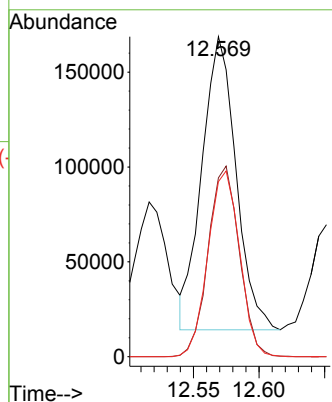
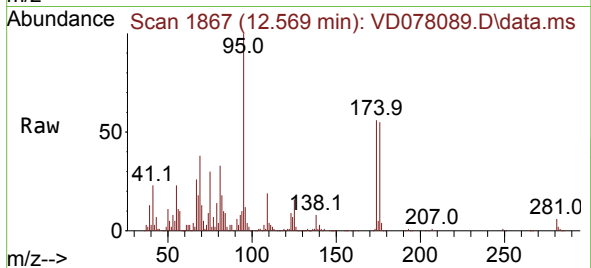




#62
4-Bromofluorobenzene
Concen: 109.130 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

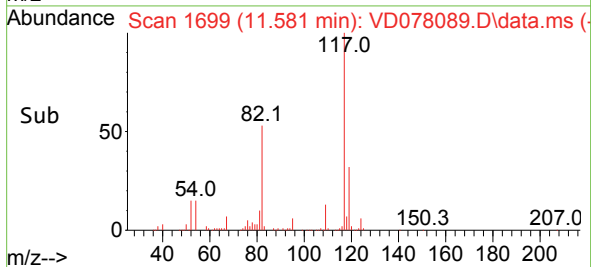
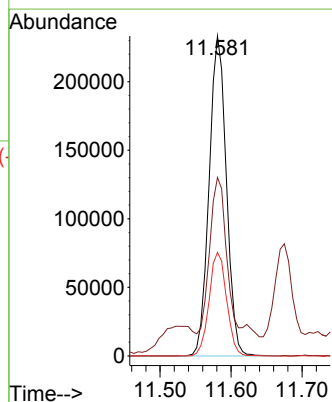
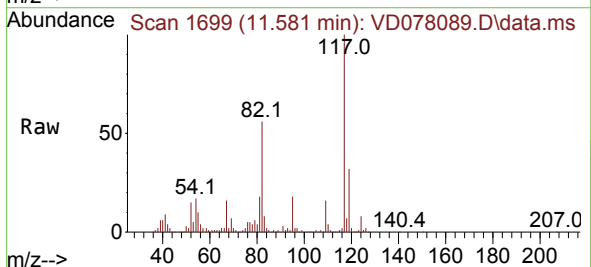
Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE

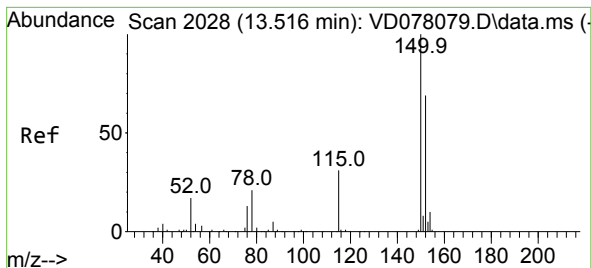
Tgt Ion: 95 Resp: 279335
Ion Ratio Lower Upper
95 100
174 59.4 0.0 201.8
176 58.7 0.0 191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Tgt Ion: 117 Resp: 394062
Ion Ratio Lower Upper
117 100
82 46.6 38.3 57.5
119 32.4 25.0 37.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. 0.000 min

Lab File: VD078089.D

Acq: 28 Dec 2023 13:41

Instrument :

MSVOA_D

ClientSampleId :

MR-321-10-12RE

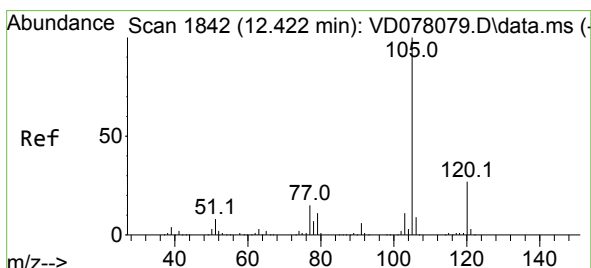
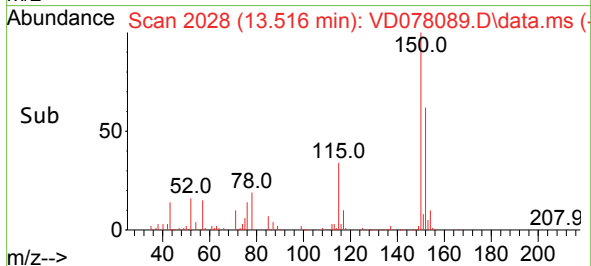
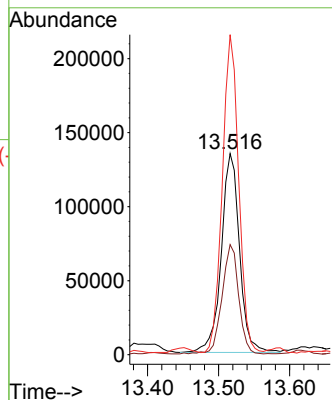
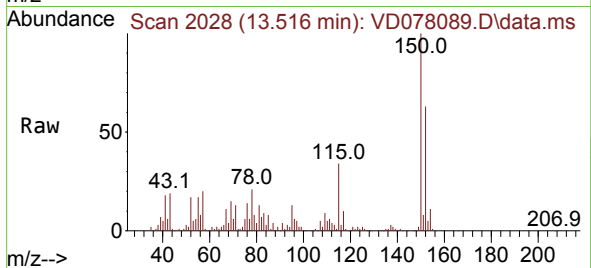
Tgt Ion:152 Resp: 239439

Ion Ratio Lower Upper

152 100

115 50.0 27.1 81.3

150 142.7 0.0 353.6



#73

Isopropylbenzene

Concen: 1.482 ug/l

RT: 12.416 min Scan# 1841

Delta R.T. -0.006 min

Lab File: VD078089.D

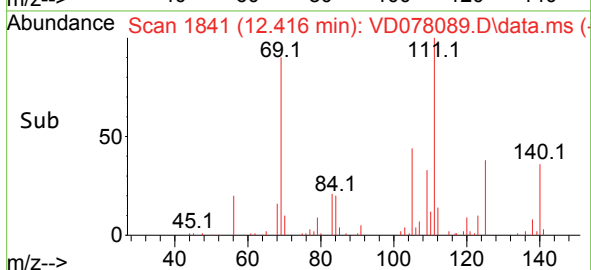
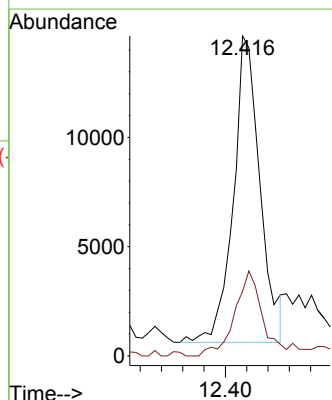
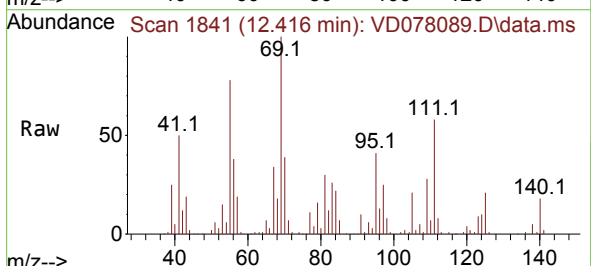
Acq: 28 Dec 2023 13:41

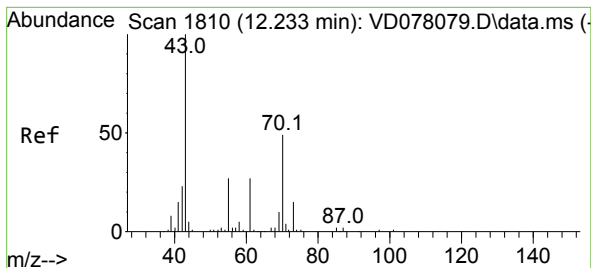
Tgt Ion:105 Resp: 24439

Ion Ratio Lower Upper

105 100

120 28.4 14.3 42.9





#74

N-amy1 acetate

Concen: 54.597 ug/l

RT: 12.210 min Scan# 1806

Delta R.T. -0.023 min

Lab File: VD078089.D

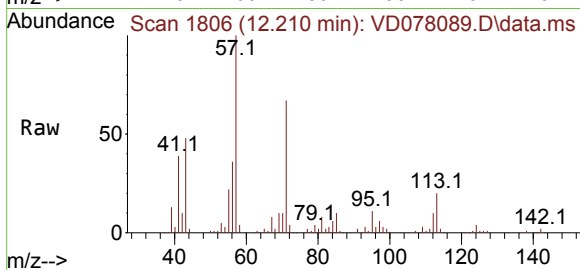
Acq: 28 Dec 2023 13:41

Instrument :

MSVOA_D

ClientSampleId :

MR-321-10-12RE



Tgt Ion: 43 Resp: 149471

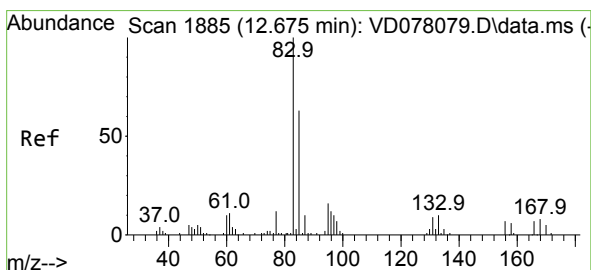
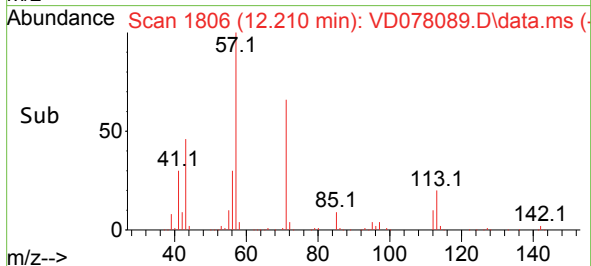
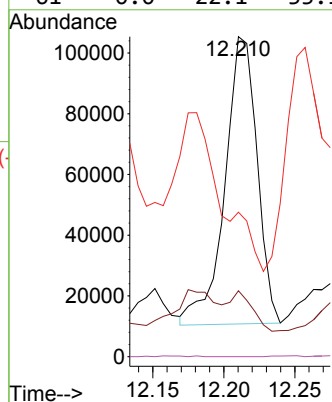
Ion Ratio Lower Upper

43 100

70 0.0 45.0 67.4#

55 0.0 23.8 35.6#

61 0.0 22.1 33.1#



#75

1,1,2,2-Tetrachloroethane

Concen: 11.491 ug/l

RT: 12.657 min Scan# 1882

Delta R.T. -0.017 min

Lab File: VD078089.D

Acq: 28 Dec 2023 13:41

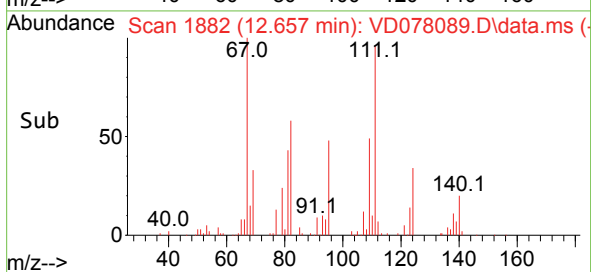
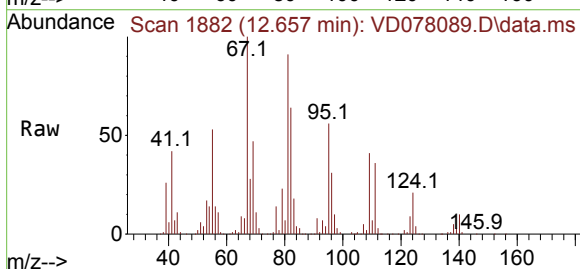
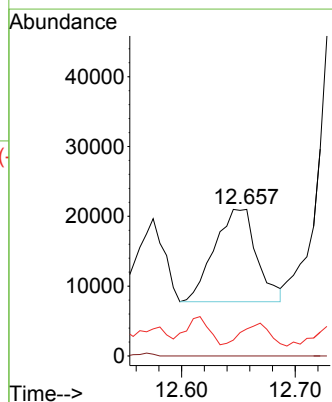
Tgt Ion: 83 Resp: 34440

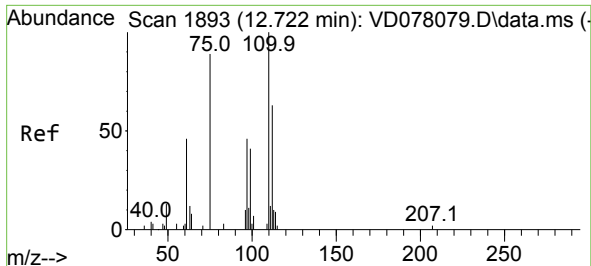
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 15.5 32.6 97.8#

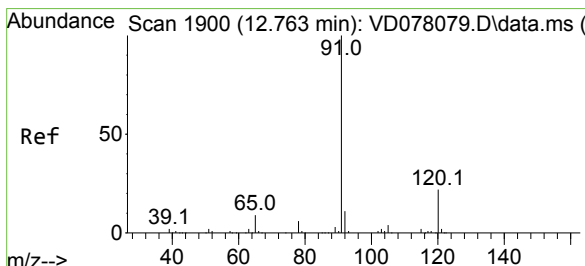
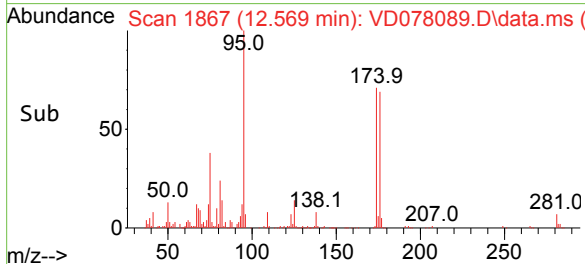
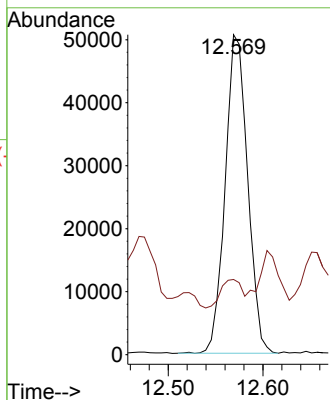
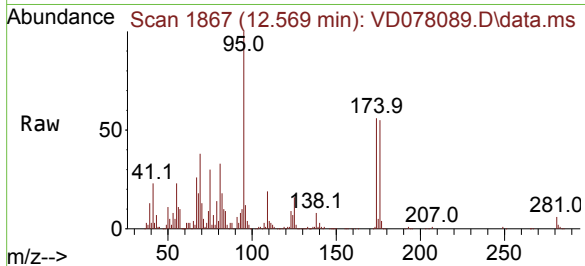




#76
1,2,3-Trichloropropane
Concen: 41.215 ug/l
RT: 12.569 min Scan# 1893
Delta R.T. -0.153 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

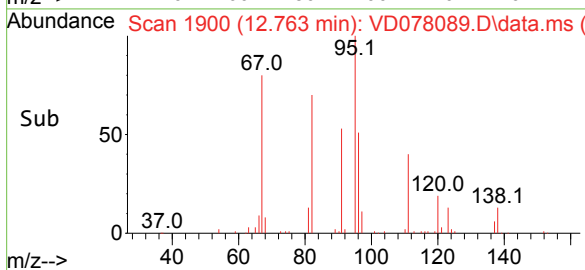
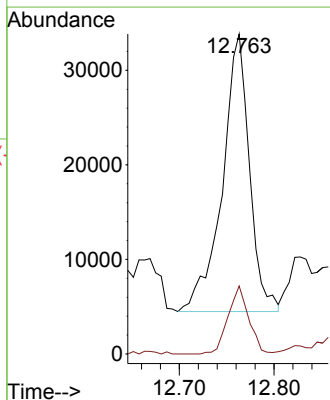
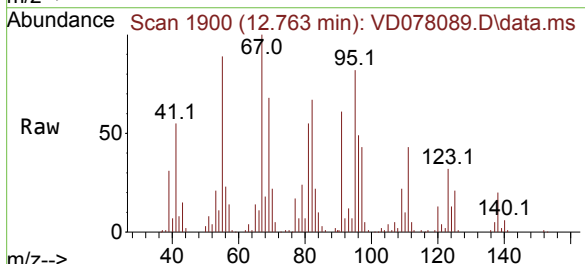
Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE

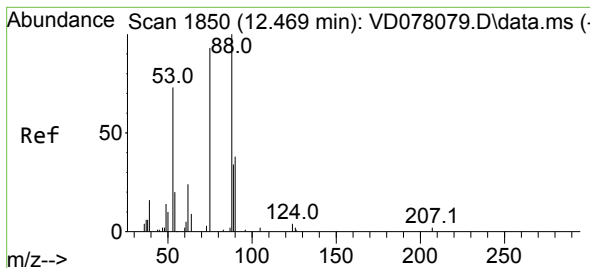
Tgt Ion: 75 Resp: 83257
Ion Ratio Lower Upper
75 100
77 8.4 0.0 0.0#



#78
n-propylbenzene
Concen: 2.940 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. 0.000 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Tgt Ion: 91 Resp: 58362
Ion Ratio Lower Upper
91 100
120 18.8 12.4 37.2

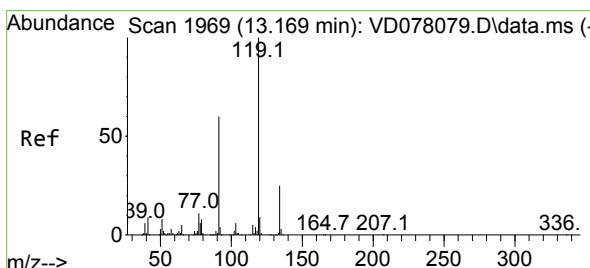
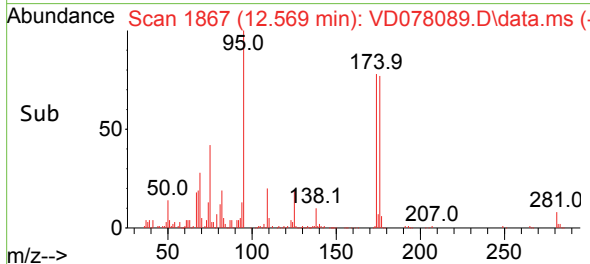
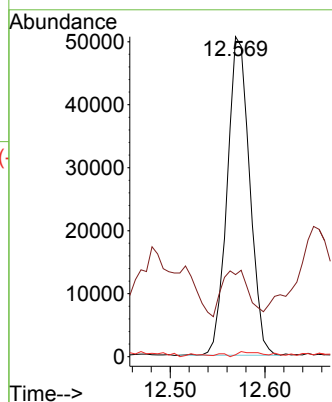
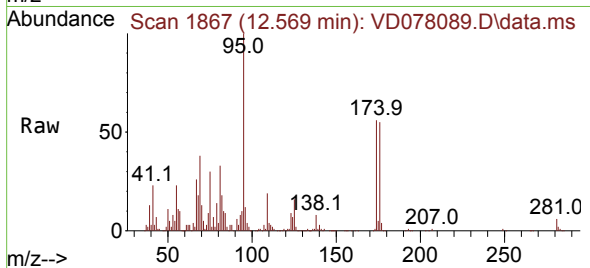




#81
trans-1,4-Dichloro-2-butene
Concen: 88.809 ug/l
RT: 12.569 min Scan# 1850
Delta R.T. 0.100 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

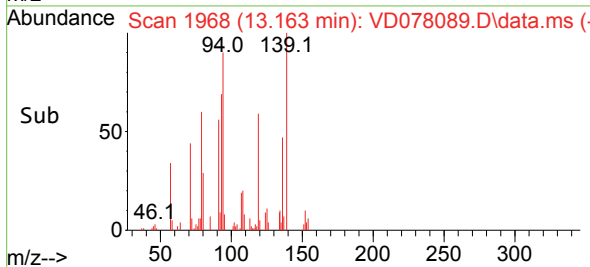
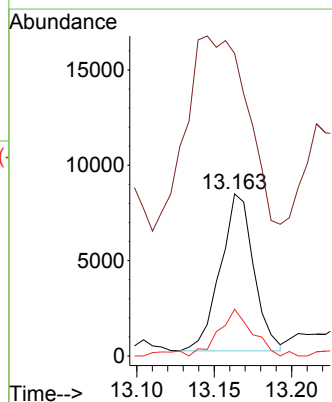
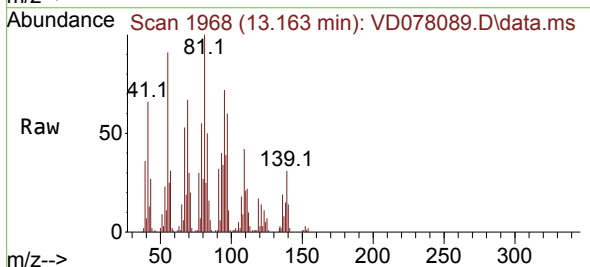
Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE

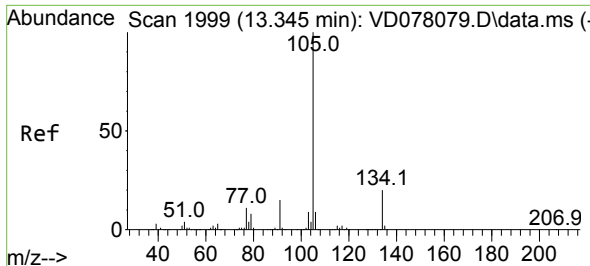
Tgt Ion: 75 Resp: 83257
Ion Ratio Lower Upper
75 100
53 17.0 63.0 94.4#
89 1.6 37.9 56.9#



#83
tert-Butylbenzene
Concen: 1.007 ug/l
RT: 13.163 min Scan# 1968
Delta R.T. -0.006 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Tgt Ion: 119 Resp: 12307
Ion Ratio Lower Upper
119 100
91 227.5 29.3 87.8#
134 30.1 14.1 42.3

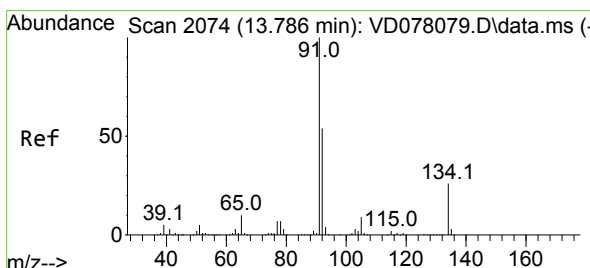
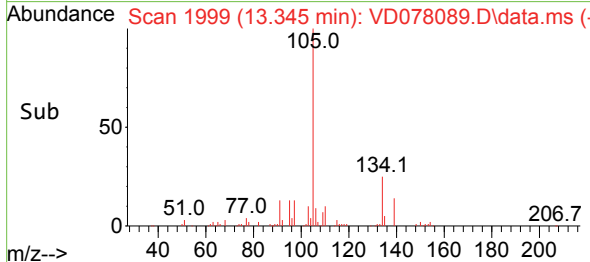
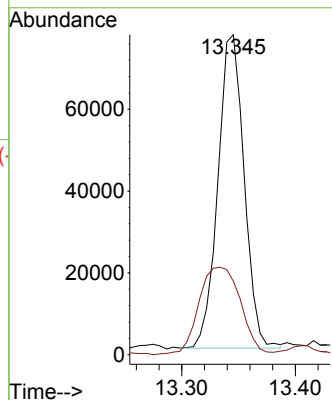
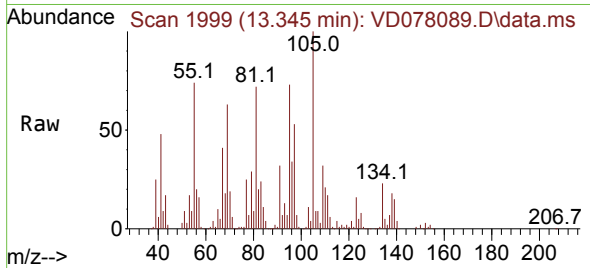




#85
 sec-Butylbenzene
 Concen: 7.048 ug/l
 RT: 13.345 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: VD078089.D
 Acq: 28 Dec 2023 13:41

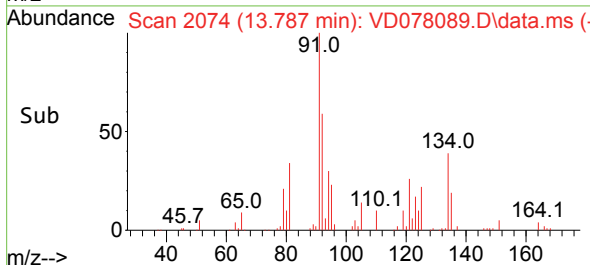
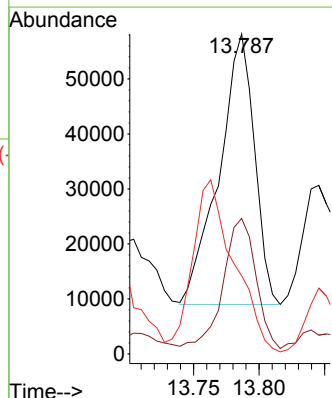
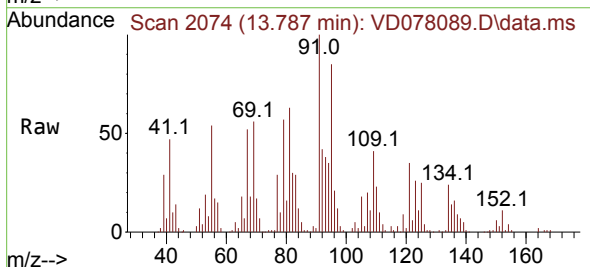
Instrument :
 MSVOA_D
 ClientSampleId :
 MR-321-10-12RE

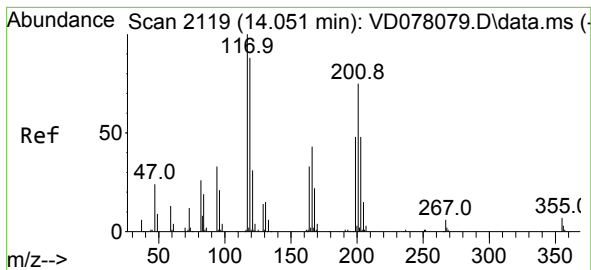
Tgt Ion:105 Resp: 122945
 Ion Ratio Lower Upper
 105 100
 134 44.4 10.9 32.9#



#89
 n-Butylbenzene
 Concen: 6.446 ug/l
 RT: 13.787 min Scan# 2074
 Delta R.T. 0.000 min
 Lab File: VD078089.D
 Acq: 28 Dec 2023 13:41

Tgt Ion: 91 Resp: 92365
 Ion Ratio Lower Upper
 91 100
 92 44.1 26.5 79.5
 134 0.0 13.8 41.3#





#90

Hexachloroethane

Concen: 3.192 ug/l

RT: 14.063 min Scan# 2119

Delta R.T. 0.012 min

Lab File: VD078089.D

Acq: 28 Dec 2023 13:41

Instrument :

MSVOA_D

ClientSampleId :

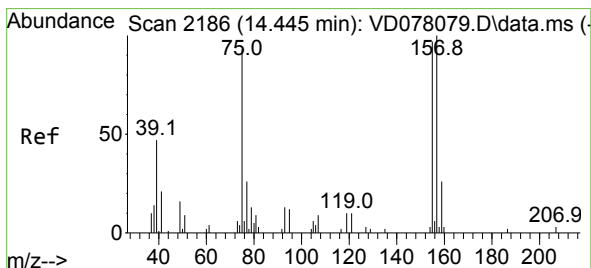
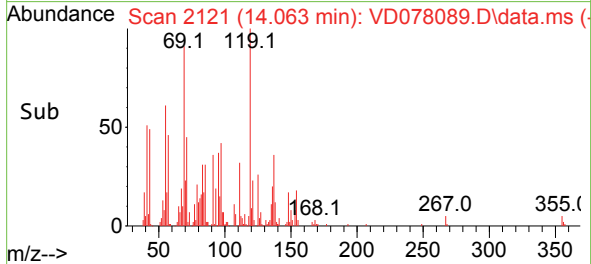
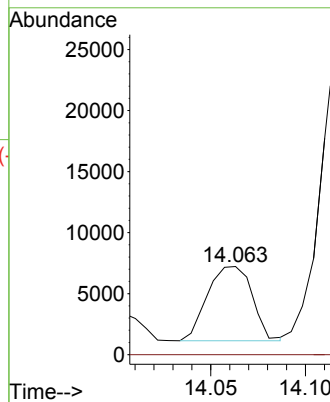
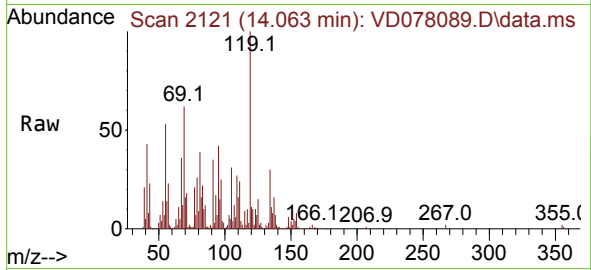
MR-321-10-12RE

Tgt Ion:117 Resp: 9963

Ion Ratio Lower Upper

117 100

201 0.0 38.5 115.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.117 ug/l

RT: 14.422 min Scan# 2182

Delta R.T. -0.023 min

Lab File: VD078089.D

Acq: 28 Dec 2023 13:41

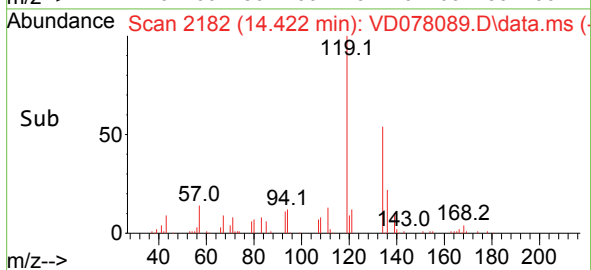
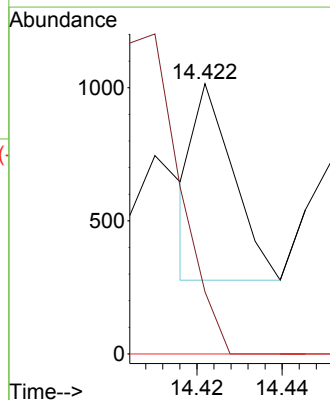
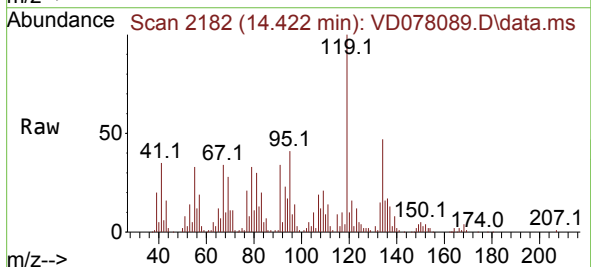
Tgt Ion: 75 Resp: 469

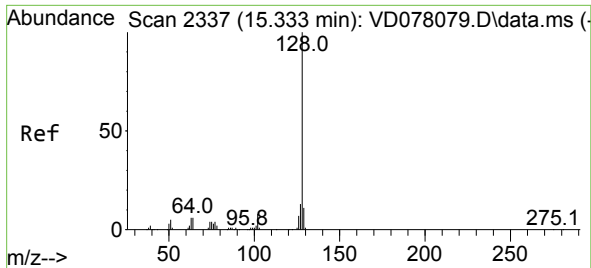
Ion Ratio Lower Upper

75 100

155 0.0 47.9 143.8#

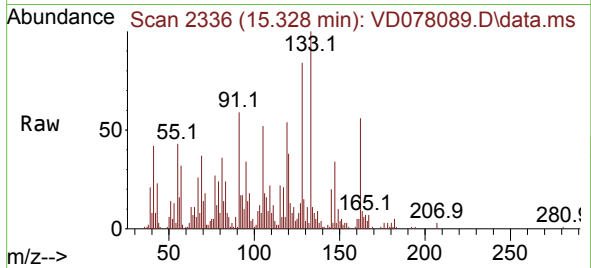
157 0.0 59.9 179.7#





#95
Naphthalene
Concen: 7.265 ug/l
RT: 15.328 min Scan# 21
Delta R.T. -0.006 min
Lab File: VD078089.D
Acq: 28 Dec 2023 13:41

Instrument :
MSVOA_D
ClientSampleId :
MR-321-10-12RE



Tgt Ion:128 Resp: 57564
Ion Ratio Lower Upper
128 100
127 15.4 10.5 15.7
129 18.1 8.7 13.1#

