

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122223\
 Data File : VD078067.D
 Acq On : 22 Dec 2023 16:40
 Operator : RP/MD
 Sample : 05879-05
 Misc : 5.40G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 23 03:38:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 14 14:48:10 2023
 Response via : Initial Calibration

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

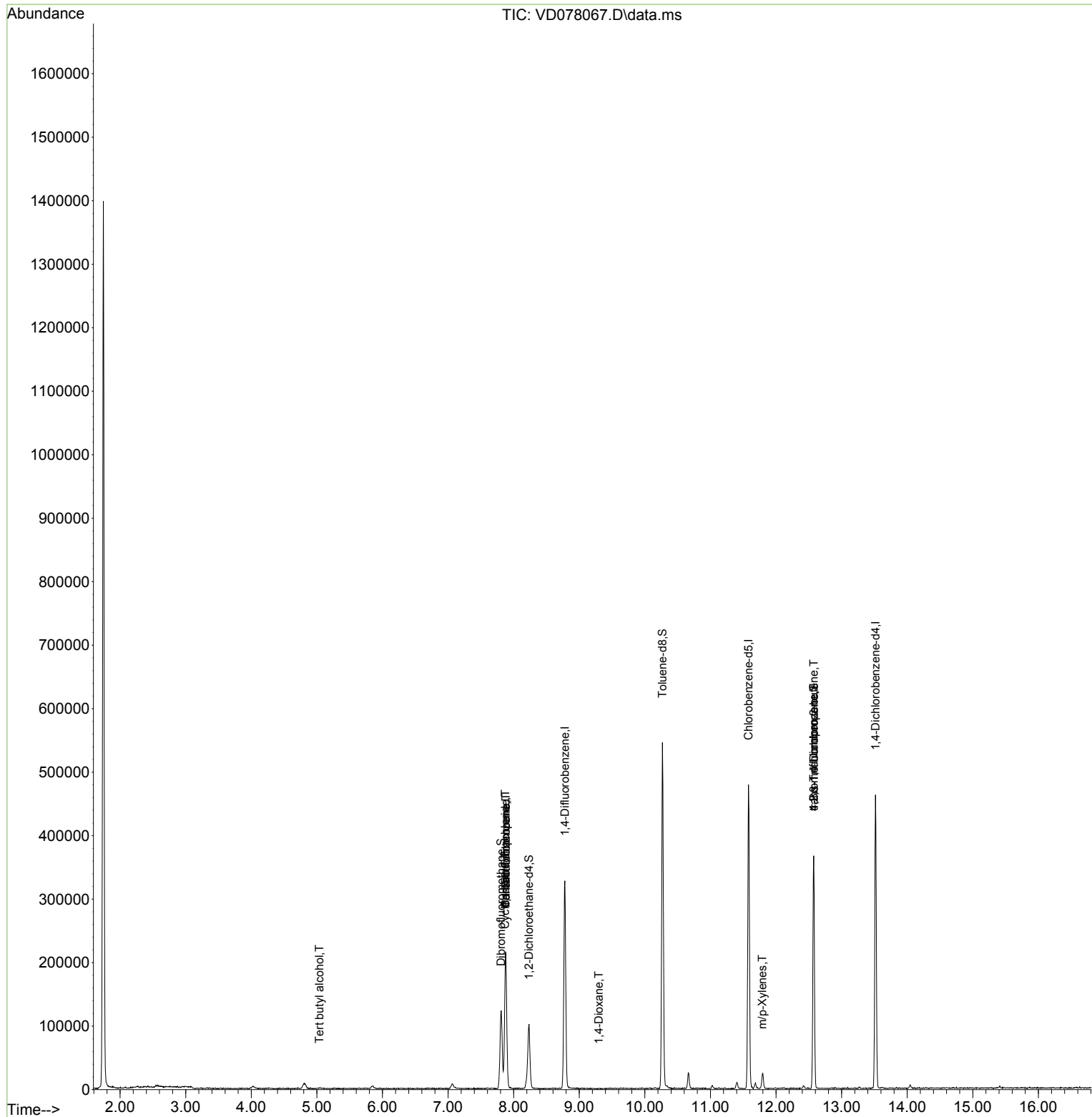
Internal Standards						
1) Pentafluorobenzene	7.881	168	165729	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	289150	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	281186	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	122906	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	74552	38.175	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	76.360%
35) Dibromofluoromethane	7.810	113	88309	43.601	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	87.200%
50) Toluene-d8	10.269	98	376501	46.413	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.820%
62) 4-Bromofluorobenzene	12.575	95	106672	43.983	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	87.960%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.040	59	1344	3.162	ug/l #	88
16) Acetone	4.016	43	2903	Below Cal	#	75
20) Methylene Chloride	4.805	84	6133	Below Cal		91
25) 2-Butanone	7.069	43	625	Below Cal	#	37
31) Cyclohexane	7.869	56	4018	1.157	ug/l #	64
36) 1,1-Dichloropropene	7.881	75	14197	4.382	ug/l #	47
38) Carbon Tetrachloride	7.875	117	16609	5.142	ug/l #	15
49) 1,4-Dioxane	9.298	88	61	5.194	ug/l #	1
65) Chlorobenzene	11.416	112	55	Below Cal	#	43
68) m/p-Xylenes	11.792	106	7377	1.647	ug/l	94
76) 1,2,3-Trichloropropane	12.575	75	58048	54.380	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	58048	110.178	ug/l #	17
88) 1,4-Dichlorobenzene	13.516	146	354	Below Cal	#	1

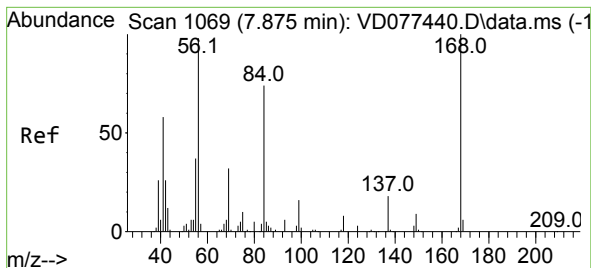
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1069

Delta R.T. 0.006 min

Lab File: VD078067.D

Acq: 22 Dec 2023 16:40

Instrument :

MSVOA_D

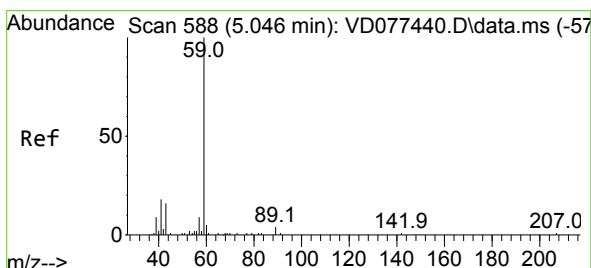
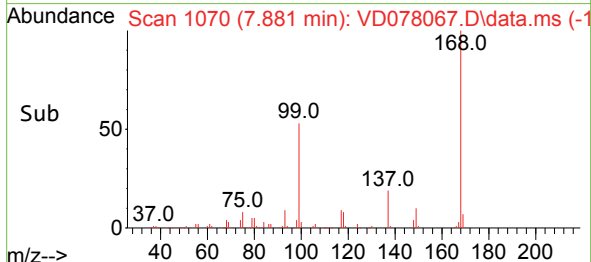
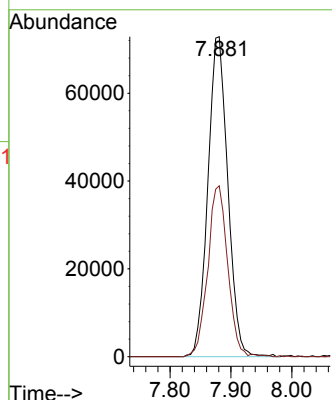
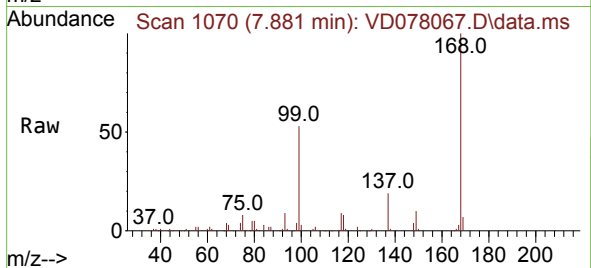
ClientSampleId :

Tgt Ion:168 Resp: 165729

Ion Ratio Lower Upper

168 100

99 53.4 36.7 55.1



#11

Tert butyl alcohol

Concen: 3.162 ug/l

RT: 5.040 min Scan# 587

Delta R.T. -0.006 min

Lab File: VD078067.D

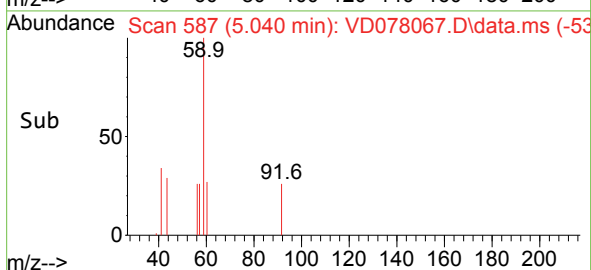
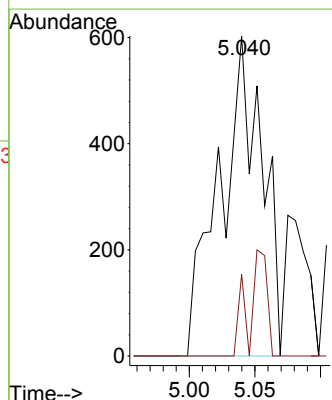
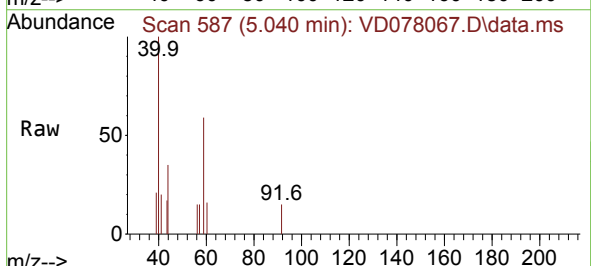
Acq: 22 Dec 2023 16:40

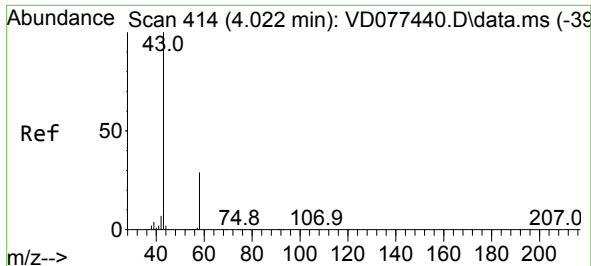
Tgt Ion: 59 Resp: 1344

Ion Ratio Lower Upper

59 100

57 14.3 7.8 11.8#

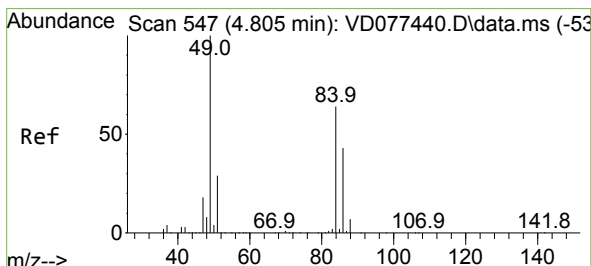
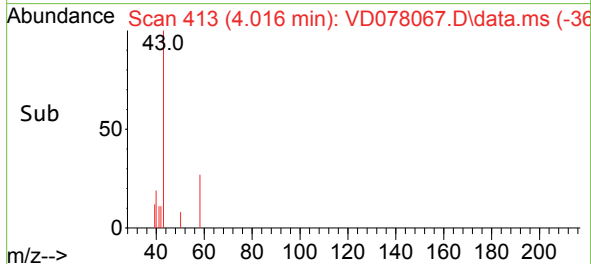
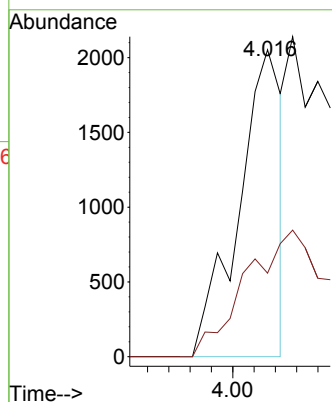
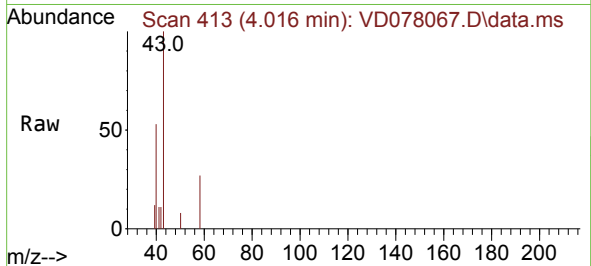




#16
Acetone
Concen: Below Cal
RT: 4.016 min Scan# 414
Delta R.T. -0.006 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

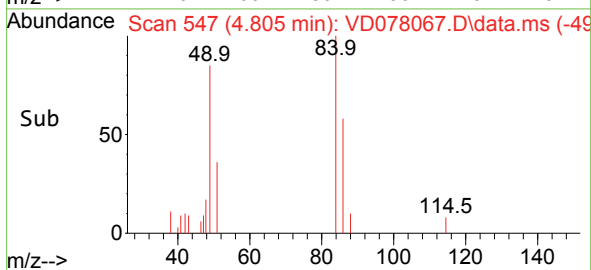
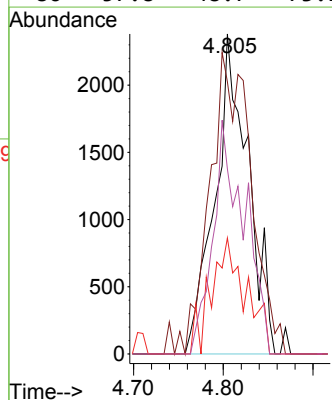
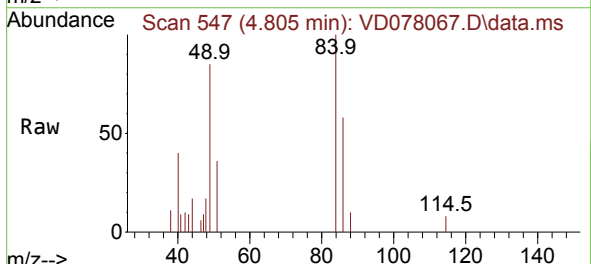
Instrument :
MSVOA_D
ClientSampleId :

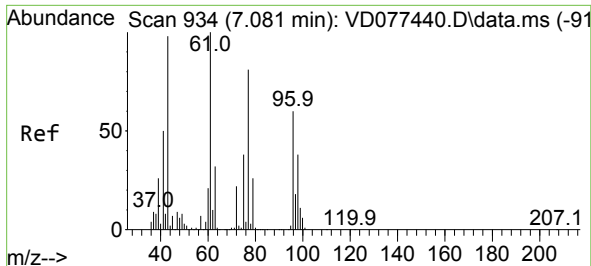
Tgt Ion: 43 Resp: 2903
Ion Ratio Lower Upper
43 100
58 27.2 34.7 52.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.805 min Scan# 547
Delta R.T. -0.000 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

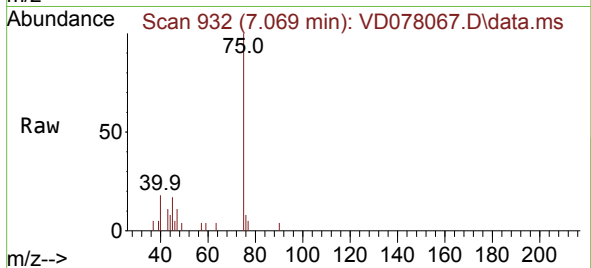
Tgt Ion: 84 Resp: 6133
Ion Ratio Lower Upper
84 100
49 78.0 71.4 107.2
51 36.2 24.5 36.7
86 57.8 48.7 73.1



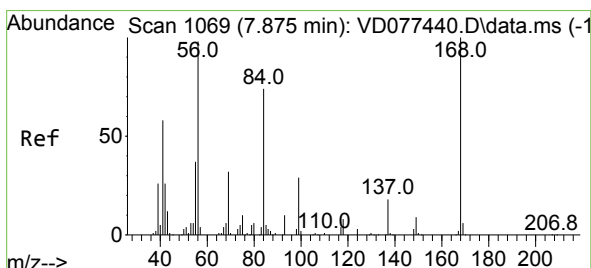
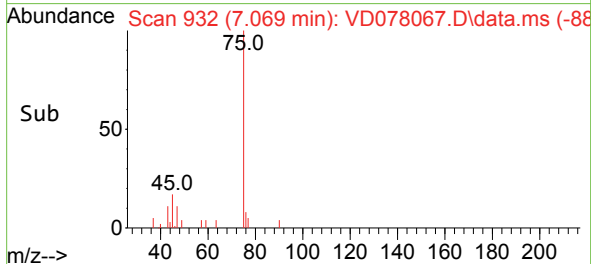
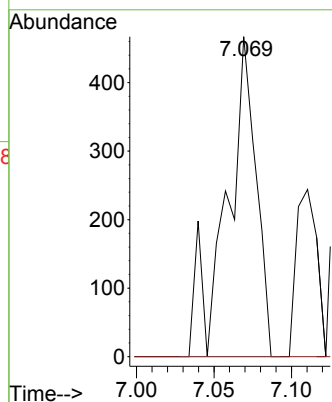


#25
2-Butanone
Concen: Below Cal
RT: 7.069 min Scan# 91
Delta R.T. -0.012 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

Instrument :
MSVOA_D
ClientSampleId :

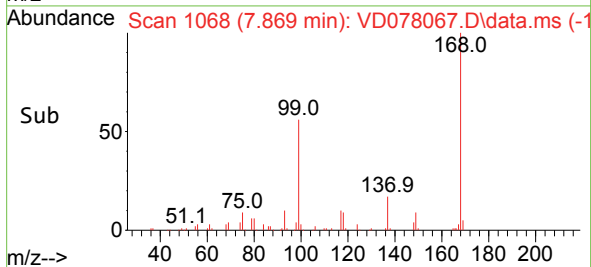
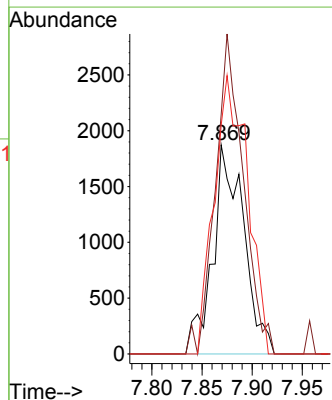
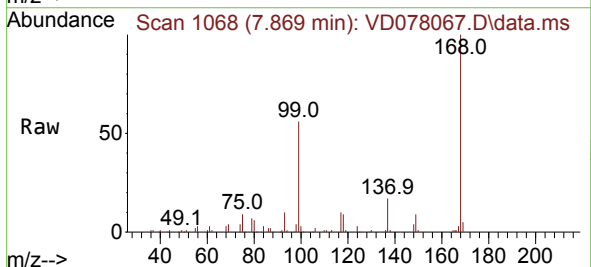


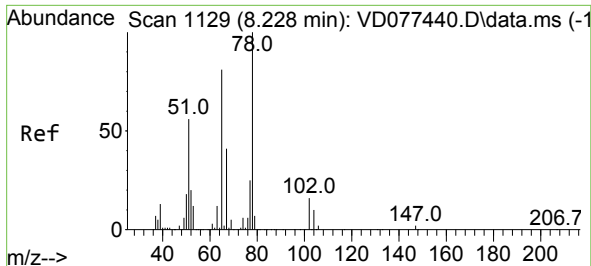
Tgt Ion: 43 Resp: 625
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#31
Cyclohexane
Concen: 1.157 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

Tgt Ion: 56 Resp: 4018
Ion Ratio Lower Upper
56 100
69 114.4 28.6 43.0#
84 109.3 84.8 127.2





#33

1,2-Dichloroethane-d4

Concen: 38.175 ug/l

RT: 8.234 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VD078067.D

Acq: 22 Dec 2023 16:40

Instrument :

MSVOA_D

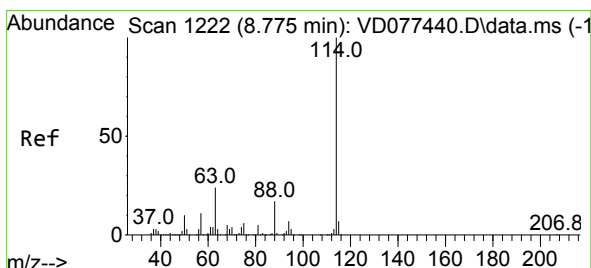
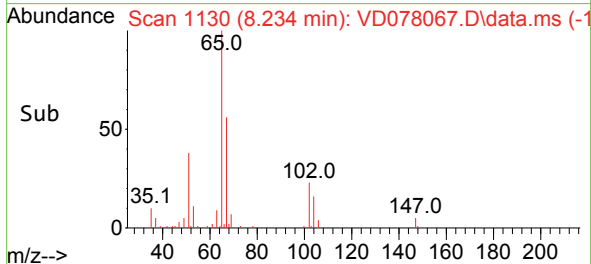
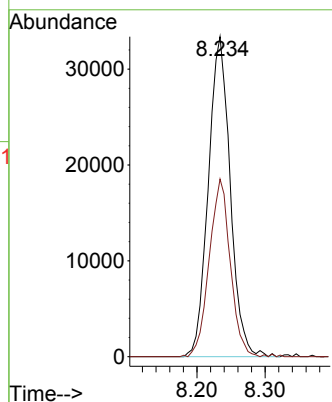
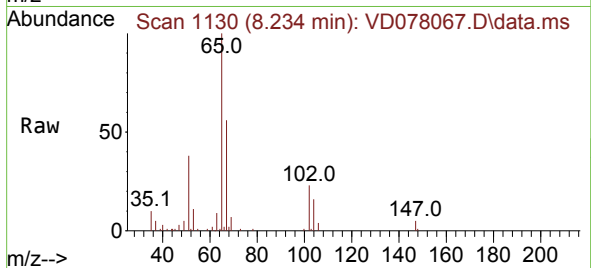
ClientSampleId :

Tgt Ion: 65 Resp: 74552

Ion Ratio Lower Upper

65 100

67 53.3 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD078067.D

Acq: 22 Dec 2023 16:40

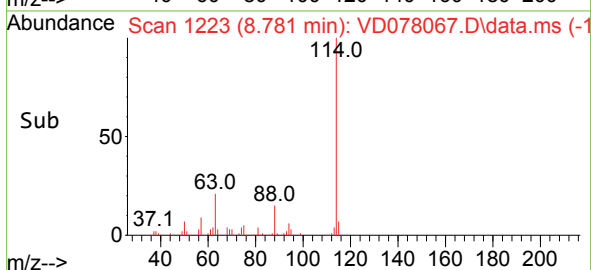
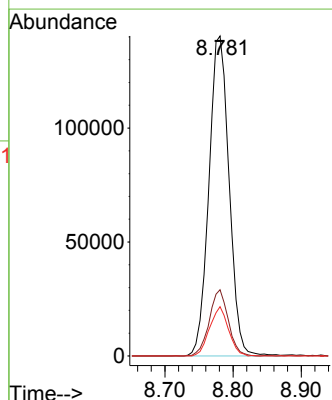
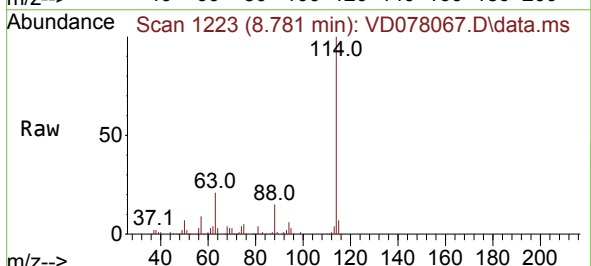
Tgt Ion: 114 Resp: 289150

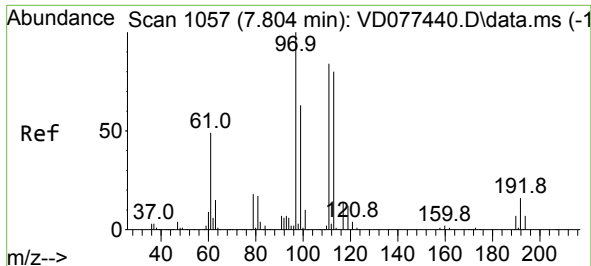
Ion Ratio Lower Upper

114 100

63 20.7 0.0 33.4

88 15.4 0.0 26.2





#35

Dibromofluoromethane

Concen: 43.601 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

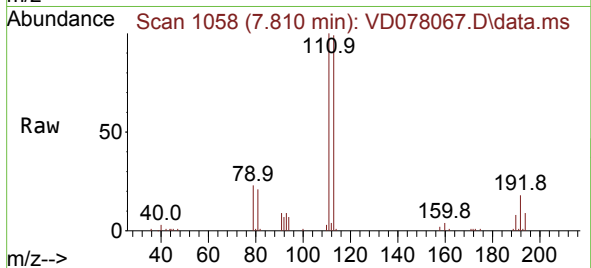
Lab File: VD078067.D

Acq: 22 Dec 2023 16:40

Instrument :

MSVOA_D

ClientSampleId :



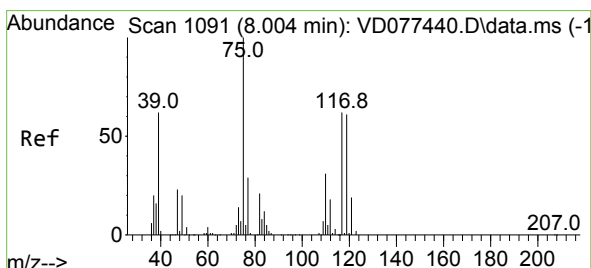
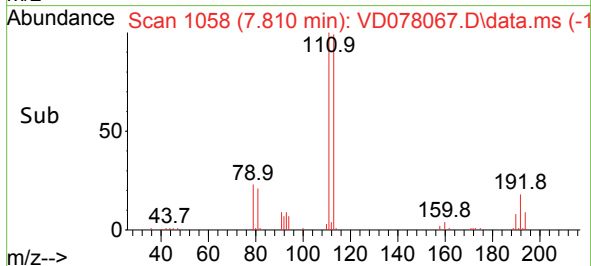
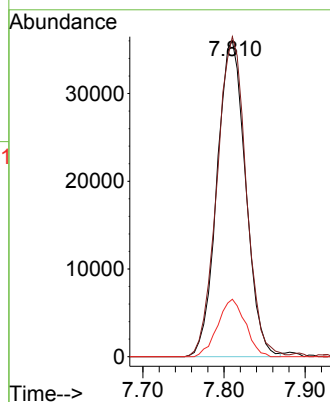
Tgt Ion:113 Resp: 88309

Ion Ratio Lower Upper

113 100

111 102.9 84.7 127.1

192 17.6 16.8 25.2



#36

1,1-Dichloropropene

Concen: 4.382 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.123 min

Lab File: VD078067.D

Acq: 22 Dec 2023 16:40

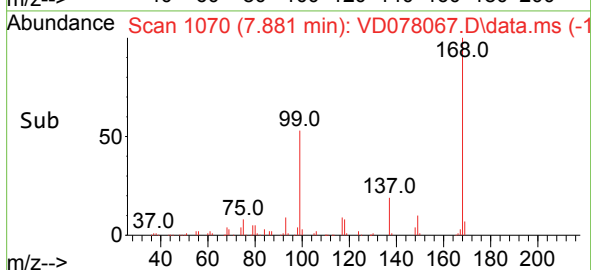
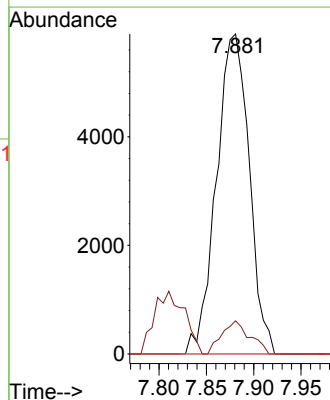
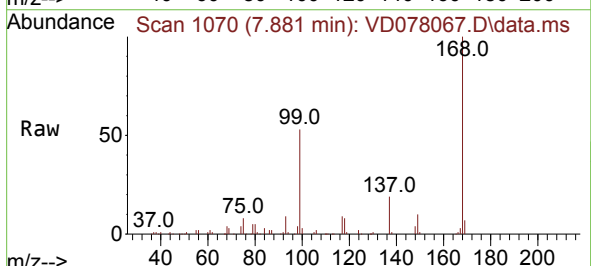
Tgt Ion: 75 Resp: 14197

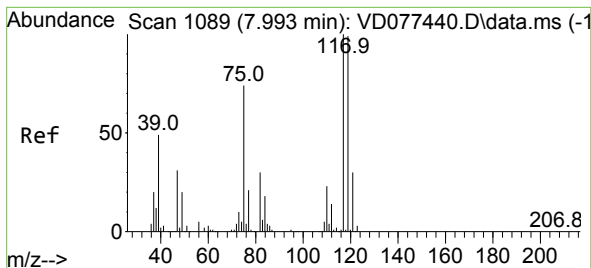
Ion Ratio Lower Upper

75 100

110 8.9 19.9 59.6#

77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.142 ug/l

RT: 7.875 min Scan# 11

Delta R.T. -0.118 min

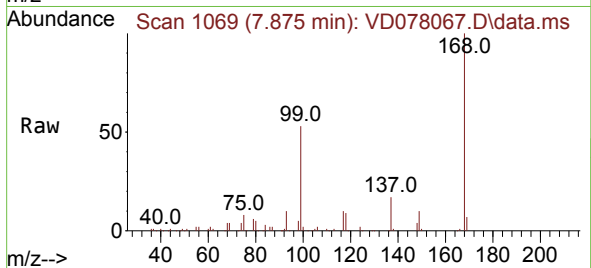
Lab File: VD078067.D

Acq: 22 Dec 2023 16:40

Instrument :

MSVOA_D

ClientSampleId :



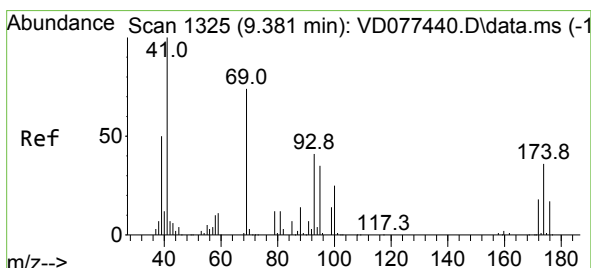
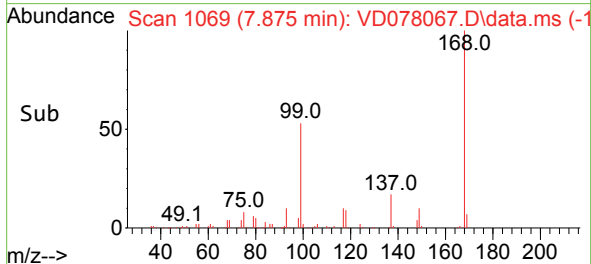
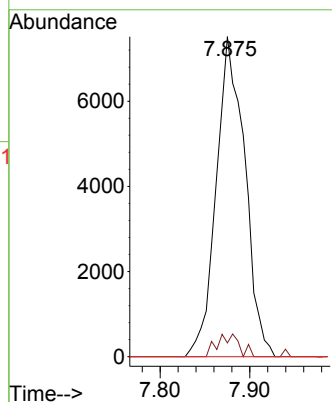
Tgt Ion:117 Resp: 16609

Ion Ratio Lower Upper

117 100

119 4.3 78.0 117.0#

121 0.0 24.2 36.2#



#49

1,4-Dioxane

Concen: 5.194 ug/l

RT: 9.298 min Scan# 1311

Delta R.T. -0.083 min

Lab File: VD078067.D

Acq: 22 Dec 2023 16:40

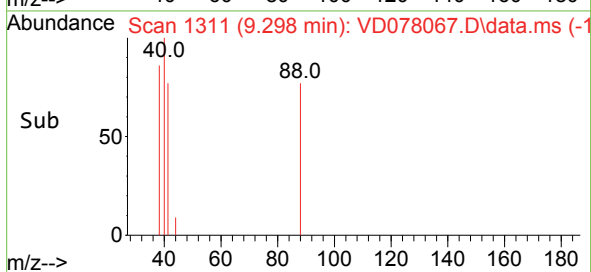
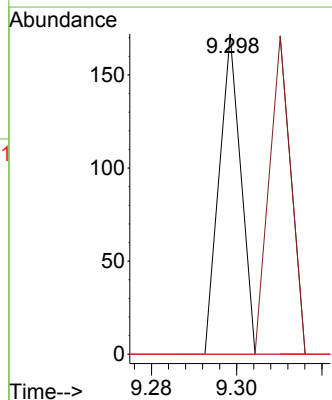
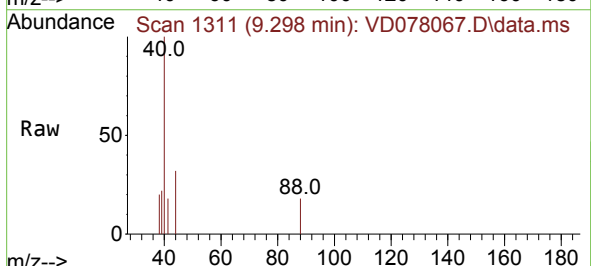
Tgt Ion: 88 Resp: 61

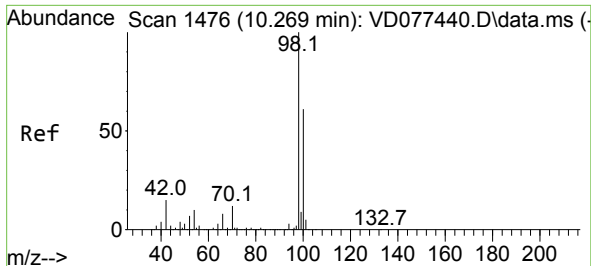
Ion Ratio Lower Upper

88 100

43 98.4 19.0 28.6#

58 0.0 43.5 65.3#

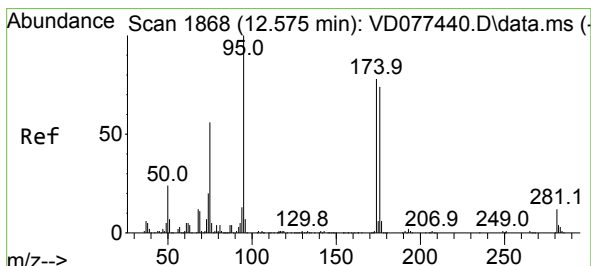
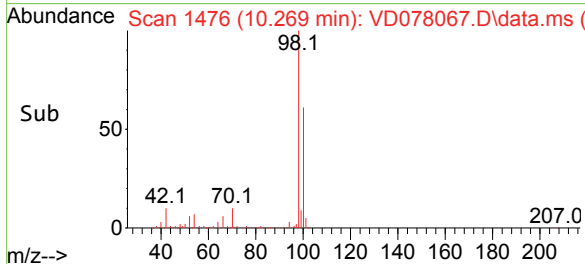
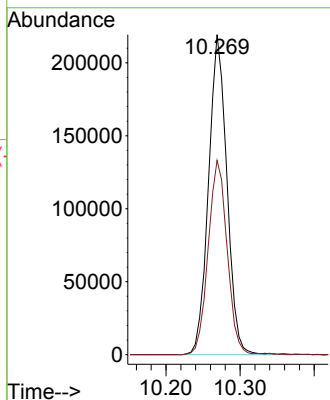
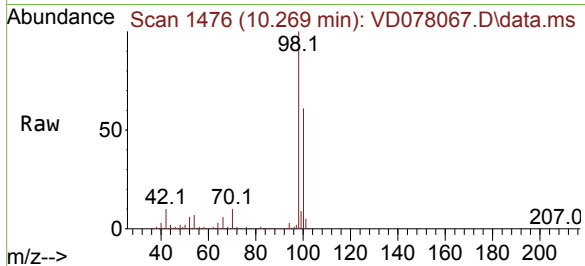




#50
Toluene-d8
Concen: 46.413 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

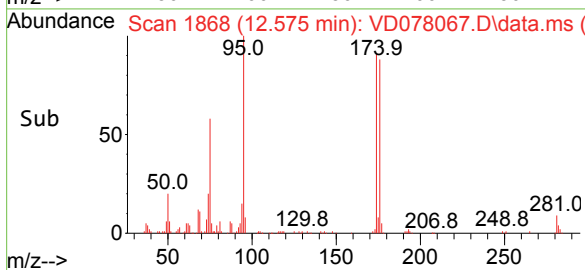
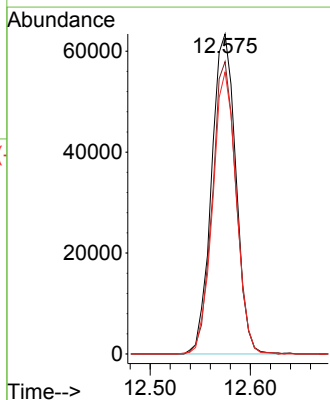
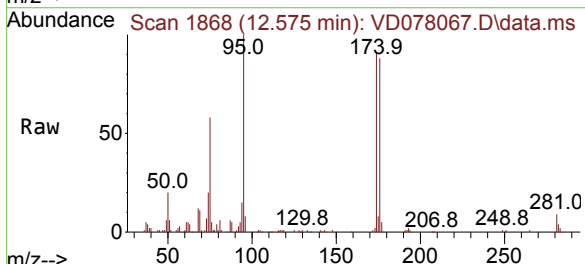
Instrument :
MSVOA_D
ClientSampleId :

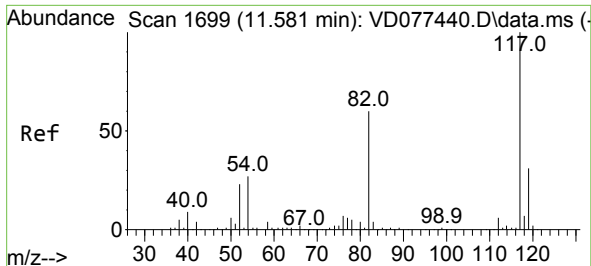
Tgt Ion: 98 Resp: 376501
Ion Ratio Lower Upper
98 100
100 62.9 50.3 75.5



#62
4-Bromofluorobenzene
Concen: 43.983 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

Tgt Ion: 95 Resp: 106672
Ion Ratio Lower Upper
95 100
174 89.0 0.0 201.8
176 85.8 0.0 191.8

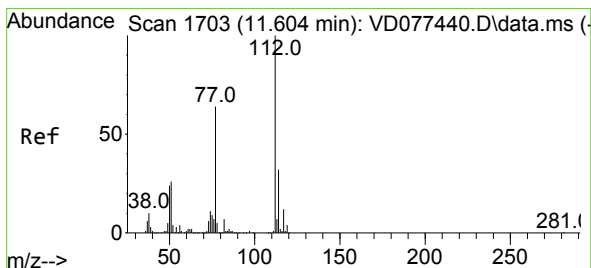
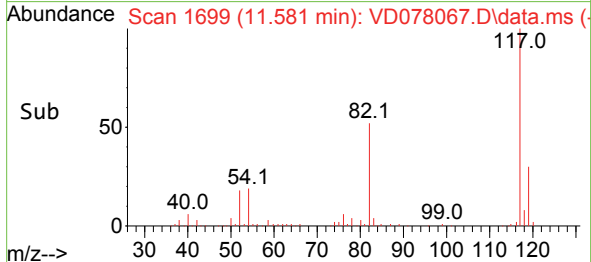
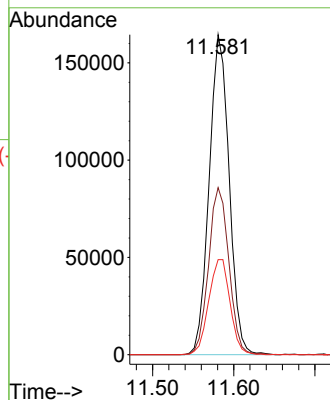
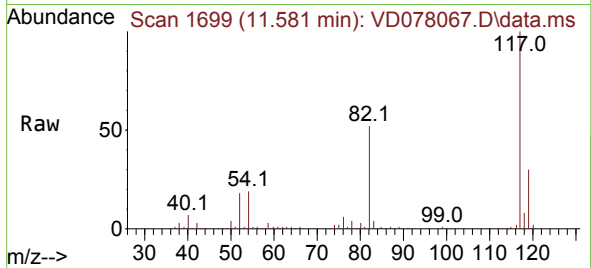




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

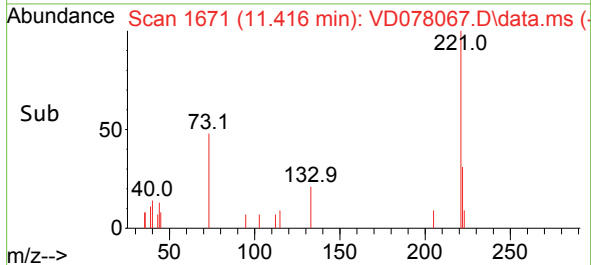
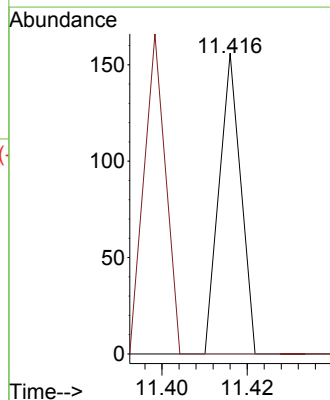
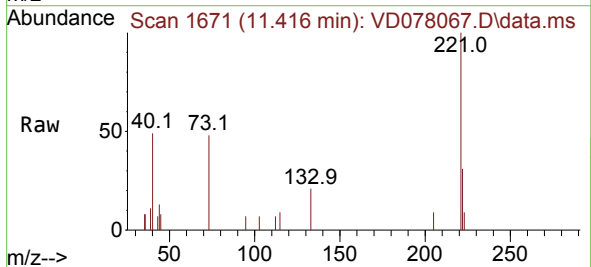
Instrument :
MSVOA_D
ClientSampleId :

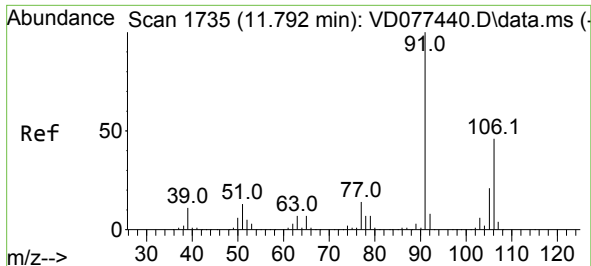
Tgt Ion:117 Resp: 281186
Ion Ratio Lower Upper
117 100
82 52.2 38.3 57.5
119 29.7 25.0 37.4



#65
Chlorobenzene
Concen: Below Cal
RT: 11.416 min Scan# 1671
Delta R.T. -0.188 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

Tgt Ion:112 Resp: 55
Ion Ratio Lower Upper
112 100
114 0.0 25.1 37.7#

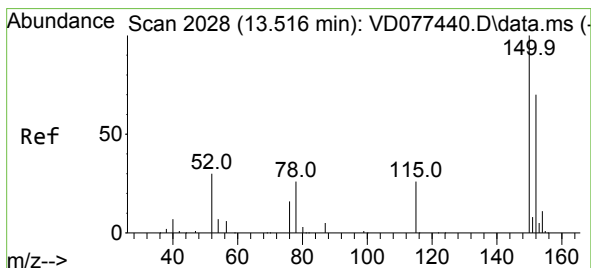
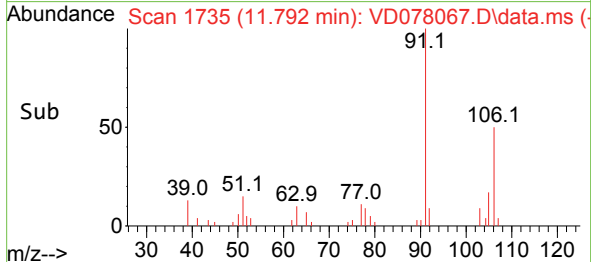
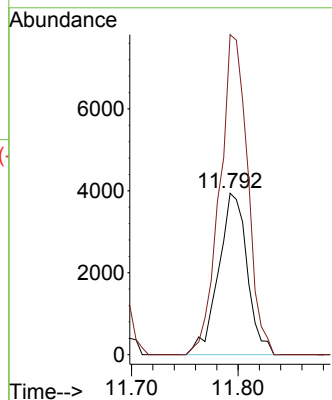
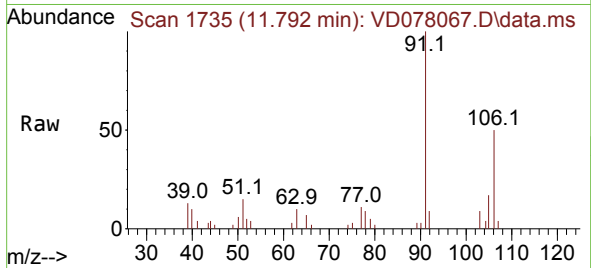




#68
m/p-Xylenes
Concen: 1.647 ug/l
RT: 11.792 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

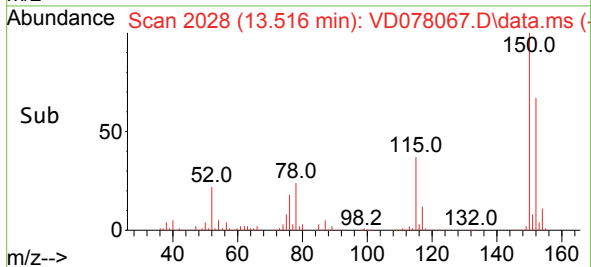
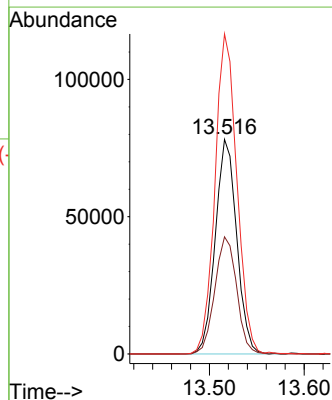
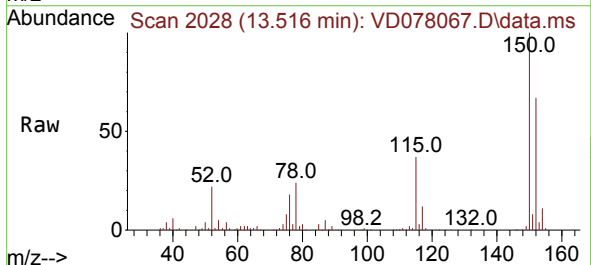
Instrument :
MSVOA_D
ClientSampleId :

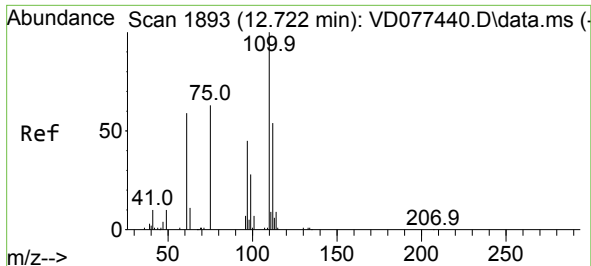
Tgt Ion:106 Resp: 7377
Ion Ratio Lower Upper
106 100
91 193.0 147.0 220.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

Tgt Ion:152 Resp: 122906
Ion Ratio Lower Upper
152 100
115 55.6 27.1 81.3
150 152.6 0.0 353.6

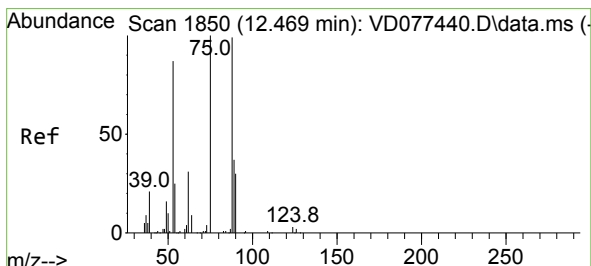
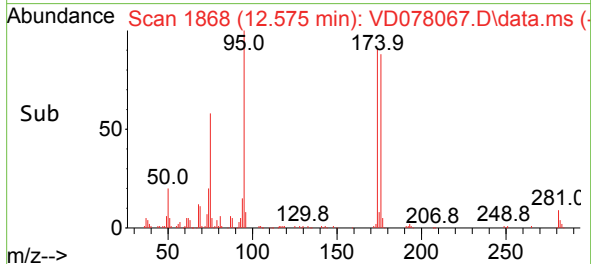
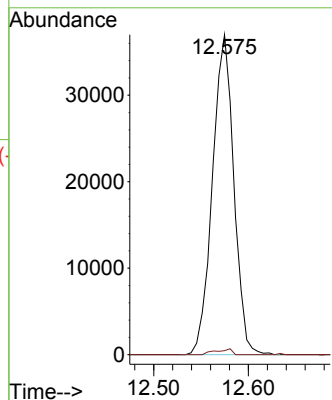
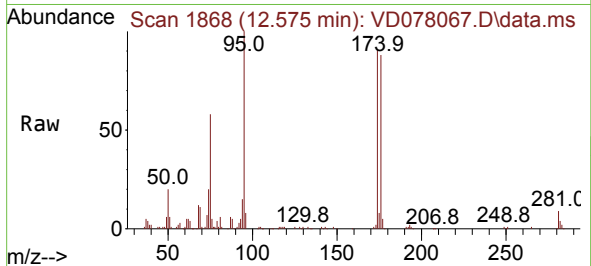




#76
1,2,3-Trichloropropane
Concen: 54.380 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

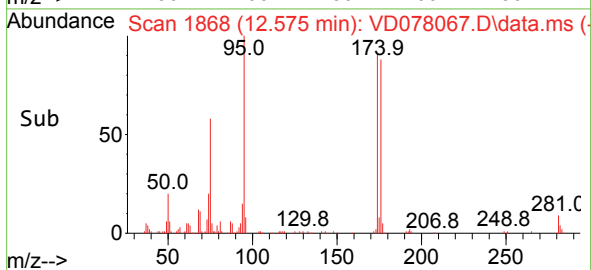
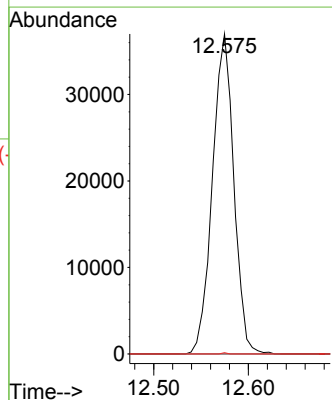
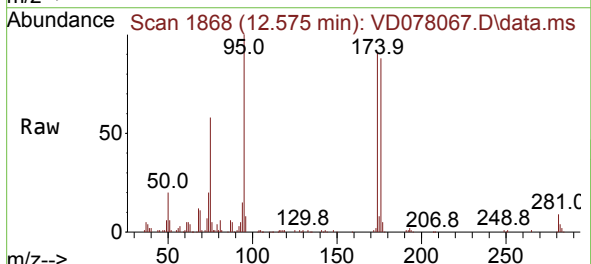
Instrument :
MSVOA_D
ClientSampleId :

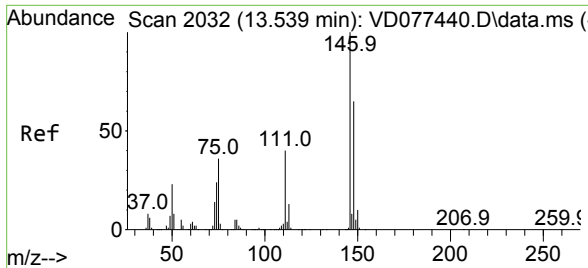
Tgt Ion: 75 Resp: 58048
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 110.178 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD078067.D
Acq: 22 Dec 2023 16:40

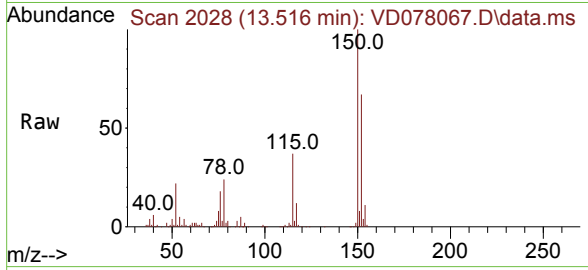
Tgt Ion: 75 Resp: 58048
Ion Ratio Lower Upper
75 100
53 0.0 63.0 94.4#
89 0.1 37.9 56.9#





#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.516 min Scan# 20
 Delta R.T. -0.023 min
 Lab File: VD078067.D
 Acq: 22 Dec 2023 16:40

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	146	Resp:	354
Ion	Ratio	Lower	Upper
146	100		
111	555.1	17.4	52.3#
148	248.0	31.7	95.1#

