

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121623\
 Data File : VD077938.D
 Acq On : 16 Dec 2023 17:12
 Operator : RP/MD
 Sample : 05853-02
 Misc : 3.20G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 18 02:01:15 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)

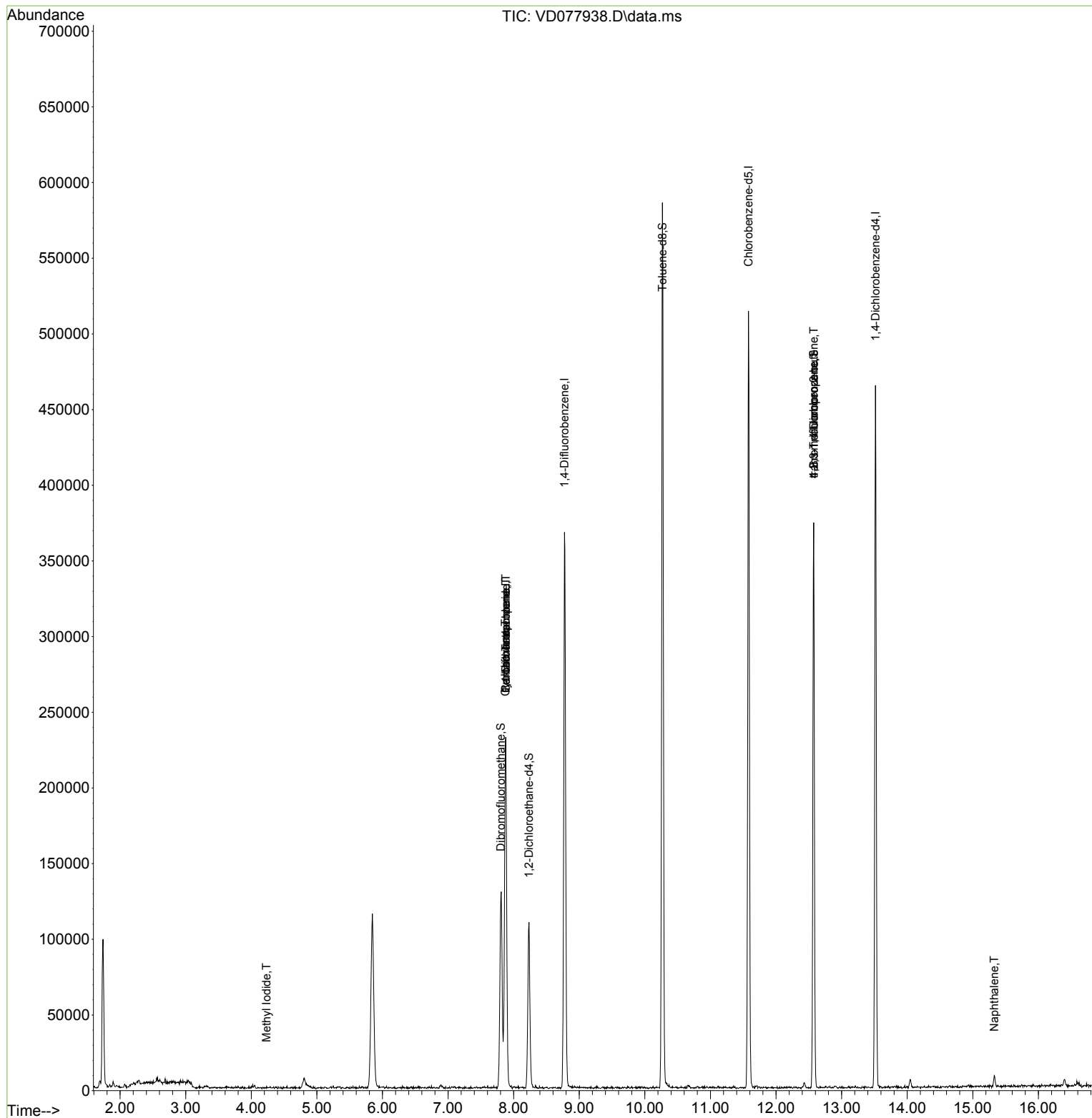
Internal Standards						
1) Pentafluorobenzene	7.881	168	176539	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	322035	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	293609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	120762	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	81640	39.245	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	78.500%
35) Dibromofluoromethane	7.804	113	94822	42.036	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	84.080%
50) Toluene-d8	10.269	98	406717	45.018	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.040%
62) 4-Bromofluorobenzene	12.575	95	109891	40.684	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	81.360%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.234	142	56	6.767	ug/l #	46
11) Tert butyl alcohol	5.069	59	55	Below Cal	#	73
16) Acetone	4.022	43	1994	Below Cal	#	64
20) Methylene Chloride	4.804	84	4307	Below Cal	#	91
25) 2-Butanone	7.093	43	241	Below Cal	#	37
31) Cyclohexane	7.875	56	4375	1.182	ug/l #	53
36) 1,1-Dichloropropene	7.881	75	15203	4.213	ug/l #	47
38) Carbon Tetrachloride	7.881	117	18444	5.127	ug/l #	16
65) Chlorobenzene	11.604	112	88	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.575	75	58926	56.183	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	58926	113.830	ug/l #	17
88) 1,4-Dichlorobenzene	13.533	146	208	Below Cal	#	26
92) 1,2-Dibromo-3-Chloropr...	14.457	75	65	Below Cal	#	1
95) Naphthalene	15.327	128	6241	1.469	ug/l #	95

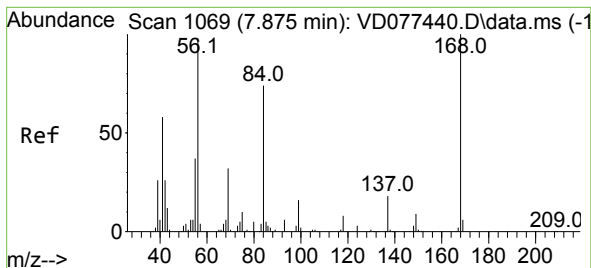
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1

Delta R.T. 0.006 min

Lab File: VD077938.D

Acq: 16 Dec 2023 17:12

Instrument :

MSVOA_D

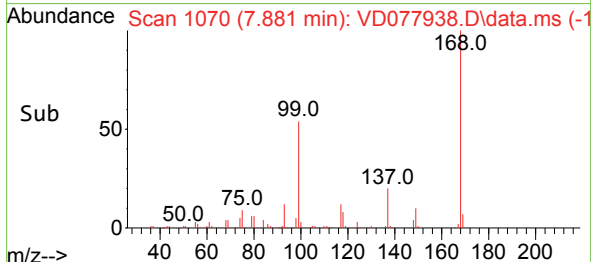
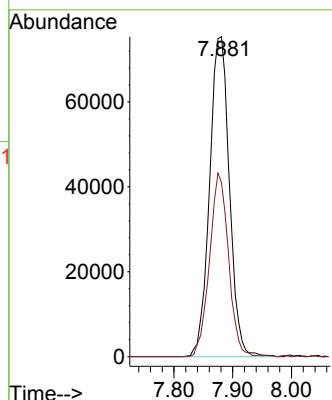
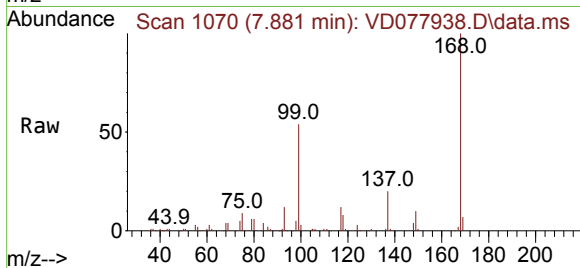
ClientSampleId :

Tgt Ion:168 Resp: 176539

Ion Ratio Lower Upper

168 100

99 54.4 36.7 55.1



#10

Methyl Iodide

Concen: 6.767 ug/l

RT: 4.234 min Scan# 450

Delta R.T. 0.065 min

Lab File: VD077938.D

Acq: 16 Dec 2023 17:12

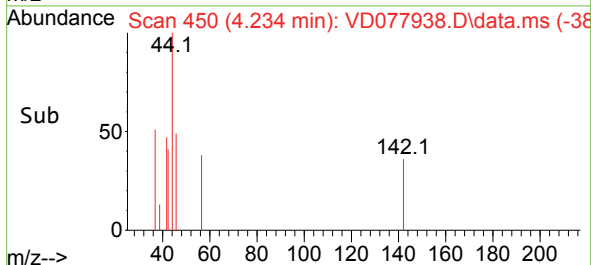
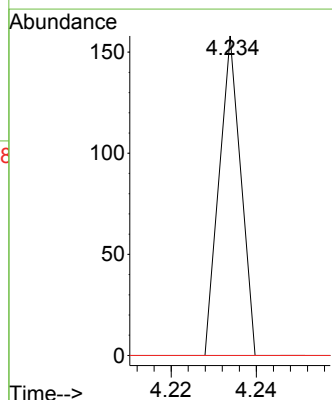
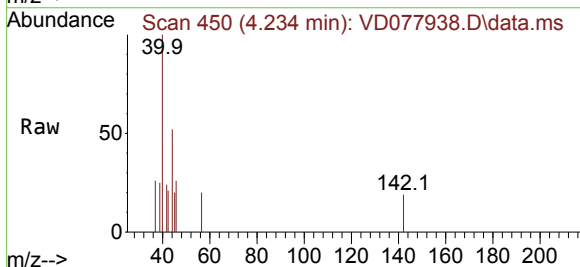
Tgt Ion:142 Resp: 56

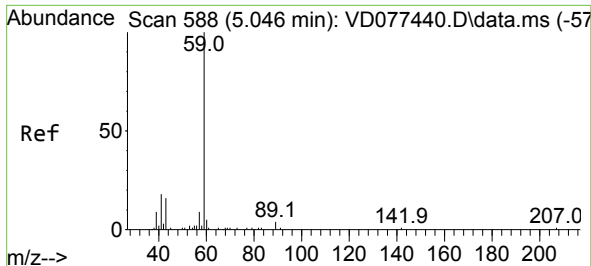
Ion Ratio Lower Upper

142 100

127 0.0 29.4 44.0#

141 0.0 11.1 16.7#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.069 min Scan# 59

Delta R.T. 0.023 min

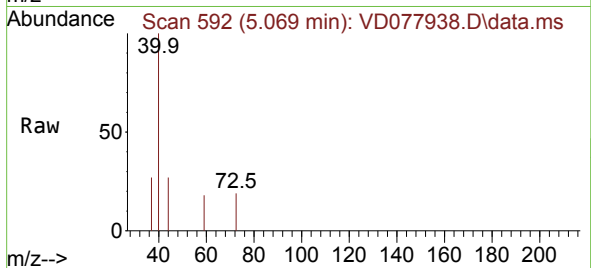
Lab File: VD077938.D

Acq: 16 Dec 2023 17:12

Instrument :

MSVOA_D

ClientSampleId :

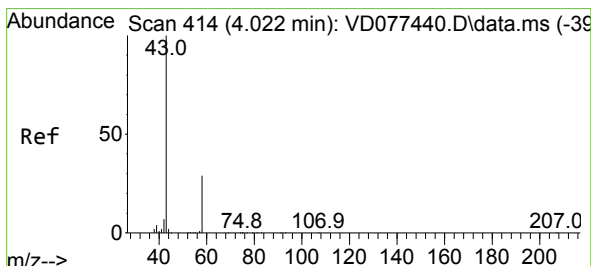
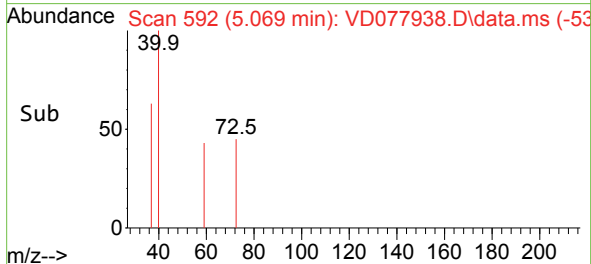
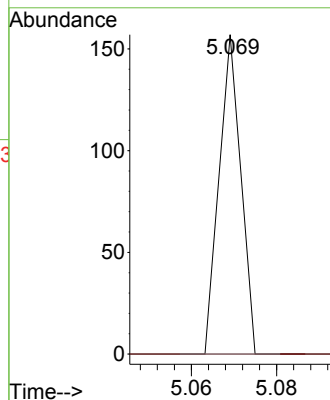


Tgt Ion: 59 Resp: 55

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#16

Acetone

Concen: Below Cal

RT: 4.022 min Scan# 414

Delta R.T. 0.000 min

Lab File: VD077938.D

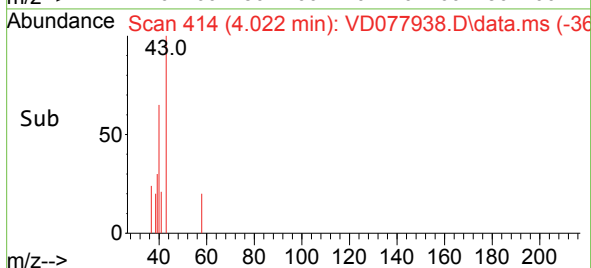
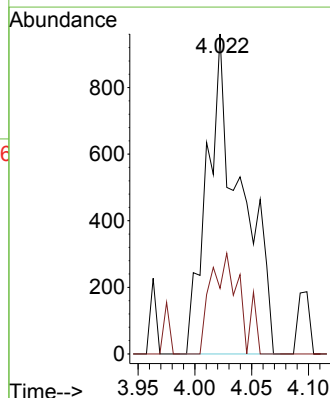
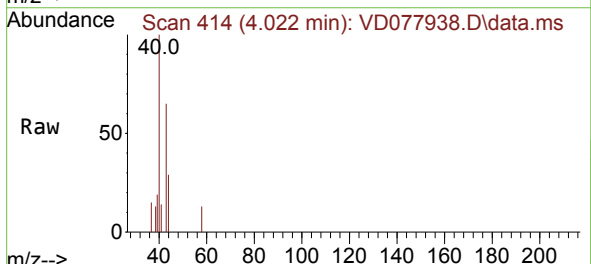
Acq: 16 Dec 2023 17:12

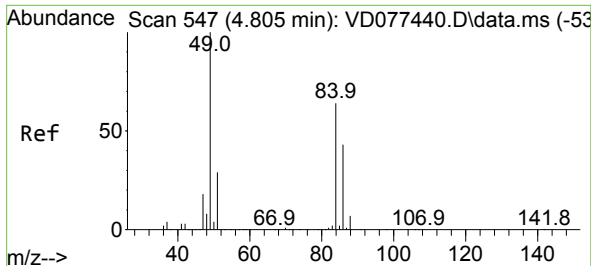
Tgt Ion: 43 Resp: 1994

Ion Ratio Lower Upper

43 100

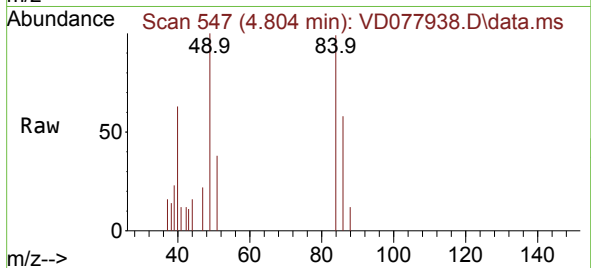
58 20.5 34.7 52.1#



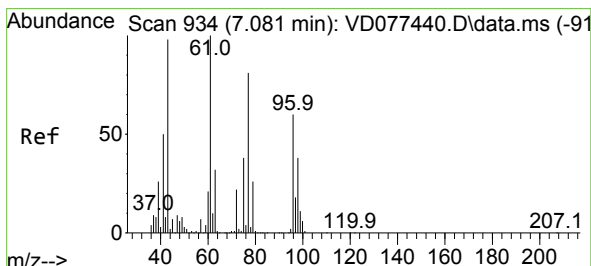
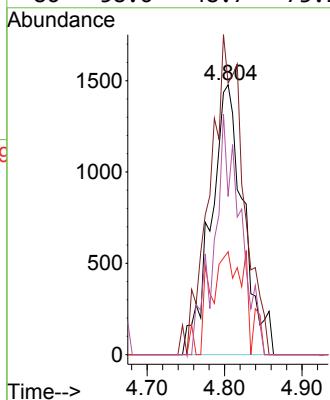
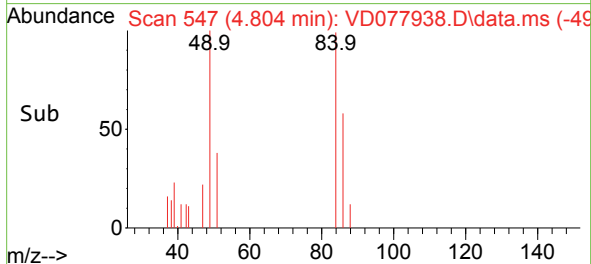


#20
Methylene Chloride
Concen: Below Cal
RT: 4.804 min Scan# 547
Delta R.T. -0.001 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12

Instrument :
MSVOA_D
ClientSampleId :

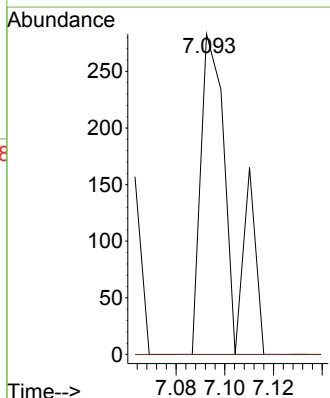
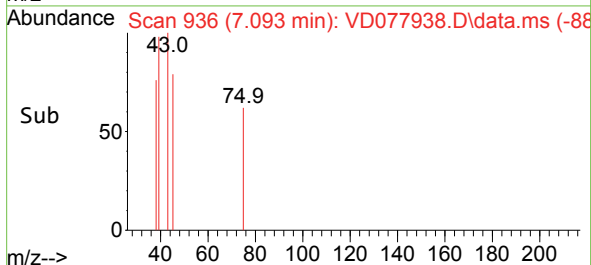
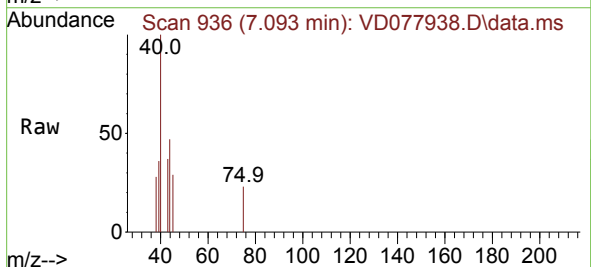


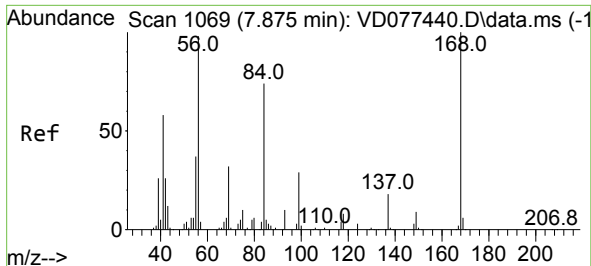
Tgt Ion:	84	Resp:	4307
Ion	Ratio	Lower	Upper
84	100		
49	100.6	71.4	107.2
51	38.1	24.5	36.7#
86	58.6	48.7	73.1



#25
2-Butanone
Concen: Below Cal
RT: 7.093 min Scan# 936
Delta R.T. 0.011 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12

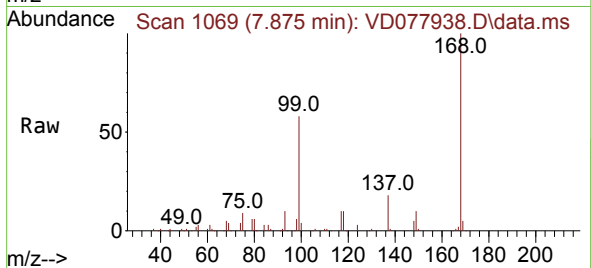
Tgt Ion:	43	Resp:	241
Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.7	46.1#



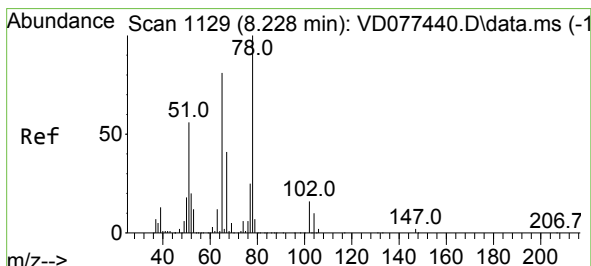
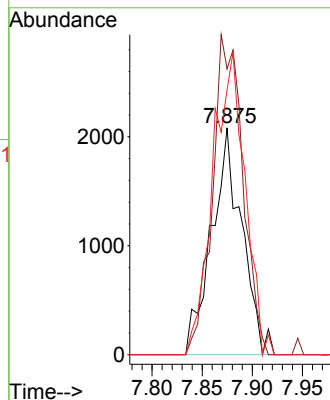
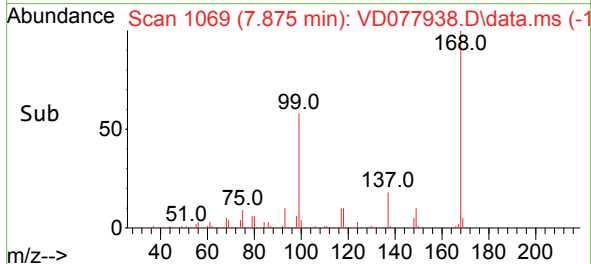


#31
Cyclohexane
Concen: 1.182 ug/l
RT: 7.875 min Scan# 110
Delta R.T. -0.000 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12

Instrument :
MSVOA_D
ClientSampleId :

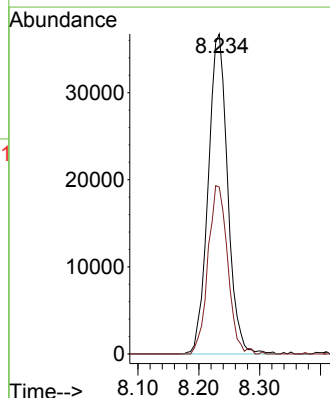
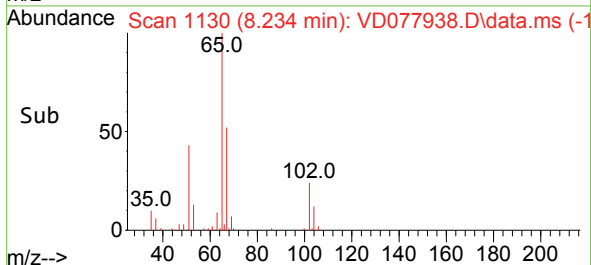
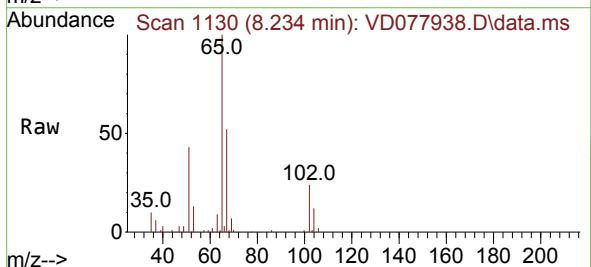


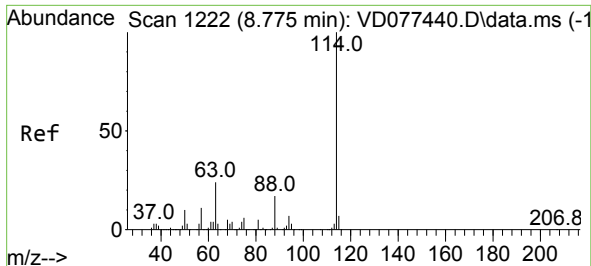
Tgt Ion: 56 Resp: 4375
Ion Ratio Lower Upper
56 100
69 126.0 28.6 43.0#
84 116.8 84.8 127.2



#33
1,2-Dichloroethane-d4
Concen: 39.245 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12

Tgt Ion: 65 Resp: 81640
Ion Ratio Lower Upper
65 100
67 53.1 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.000 min

Lab File: VD077938.D

Acq: 16 Dec 2023 17:12

Instrument :

MSVOA_D

ClientSampleId :

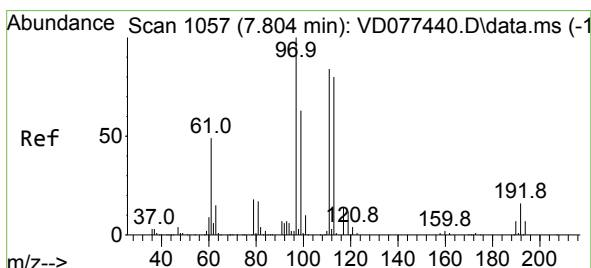
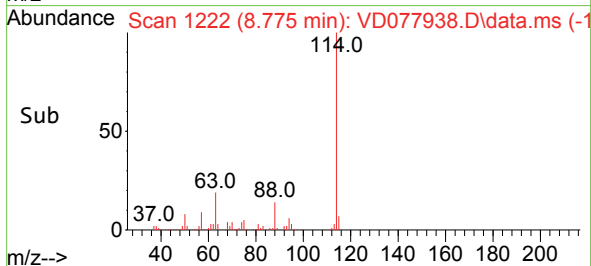
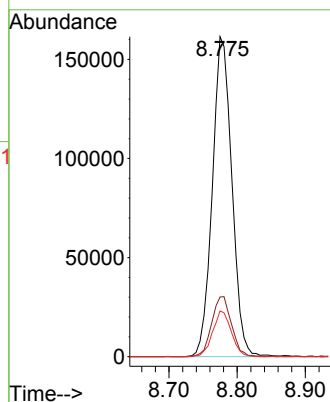
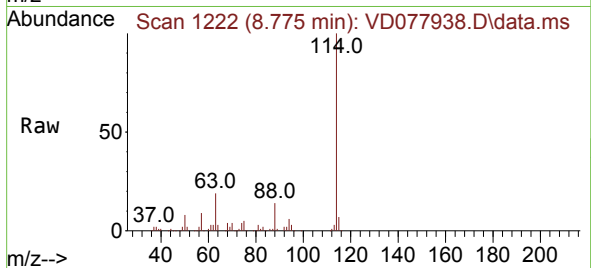
Tgt Ion:114 Resp: 322035

Ion Ratio Lower Upper

114 100

63 18.6 0.0 33.4

88 14.3 0.0 26.2



#35

Dibromofluoromethane

Concen: 42.036 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VD077938.D

Acq: 16 Dec 2023 17:12

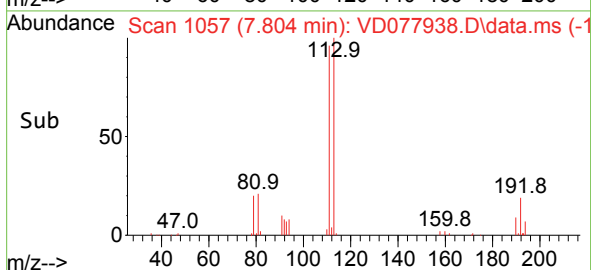
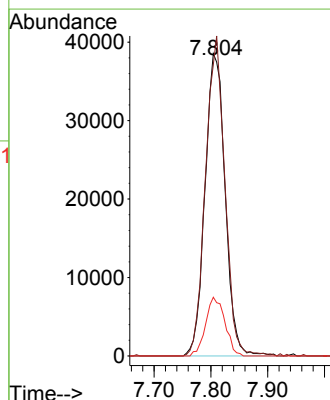
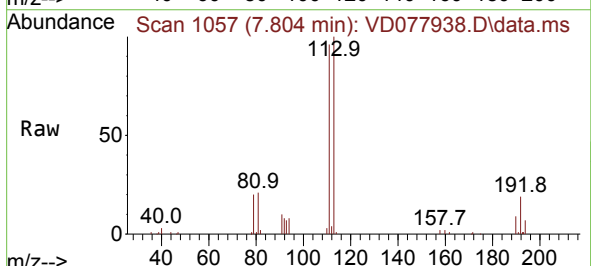
Tgt Ion:113 Resp: 94822

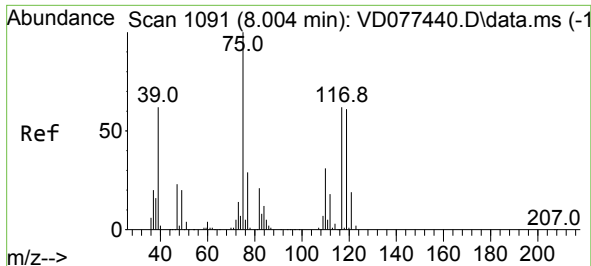
Ion Ratio Lower Upper

113 100

111 101.6 84.7 127.1

192 18.6 16.8 25.2





#36

1,1-Dichloropropene

Concen: 4.213 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.123 min

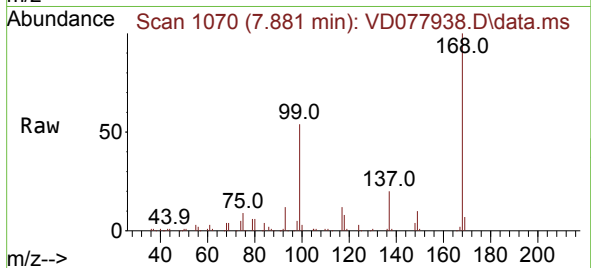
Lab File: VD077938.D

Acq: 16 Dec 2023 17:12

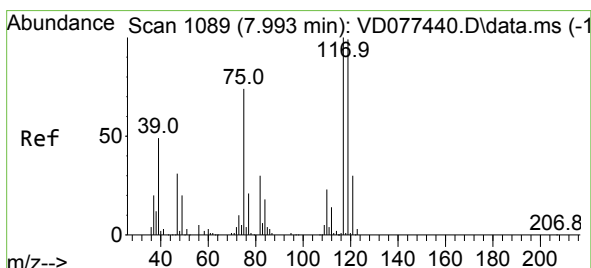
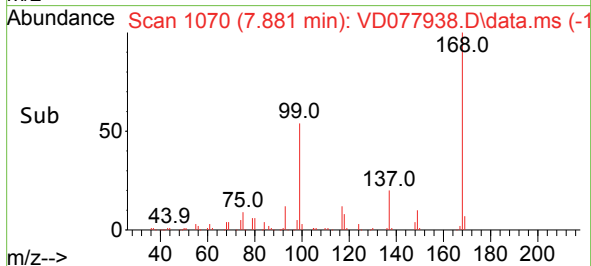
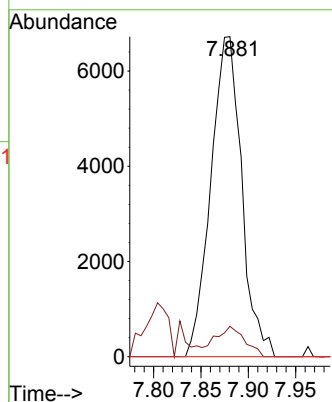
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	75	Resp:	15203
Ion Ratio	Lower	Upper	
75	100		
110	9.0	19.9	59.6#
77	0.0	24.7	37.1#



#38

Carbon Tetrachloride

Concen: 5.127 ug/l

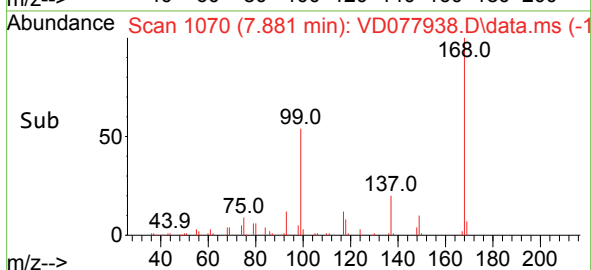
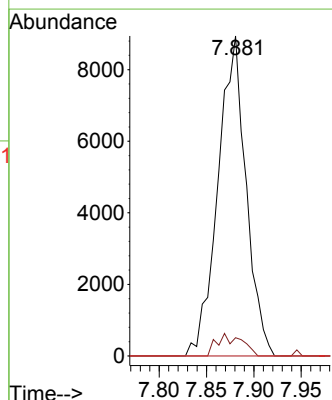
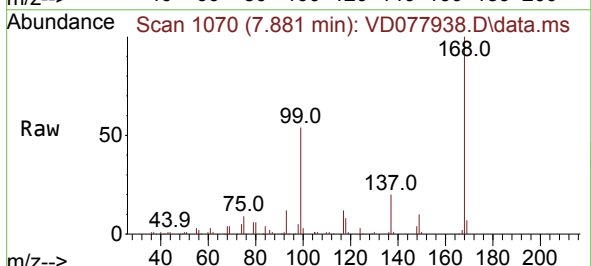
RT: 7.881 min Scan# 1070

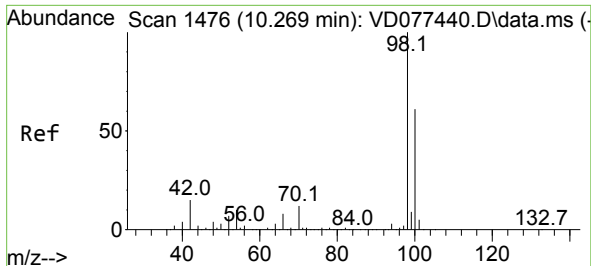
Delta R.T. -0.112 min

Lab File: VD077938.D

Acq: 16 Dec 2023 17:12

Tgt Ion:	117	Resp:	18444
Ion Ratio	Lower	Upper	
117	100		
119	5.7	78.0	117.0#
121	0.0	24.2	36.2#

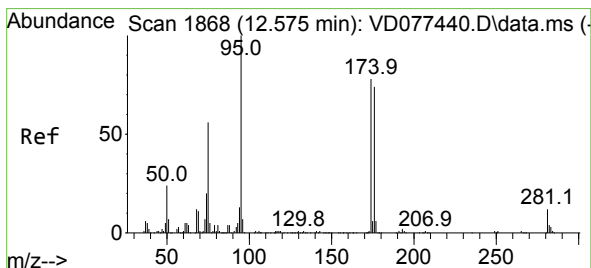
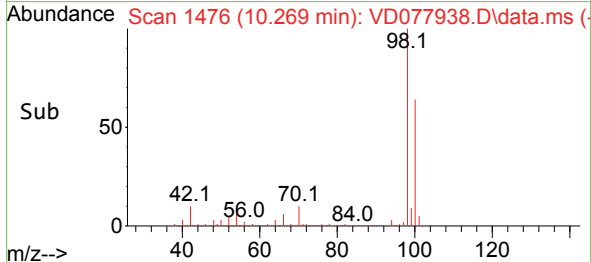
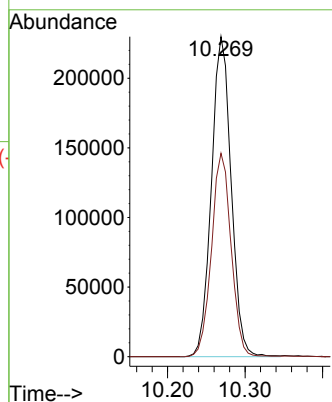
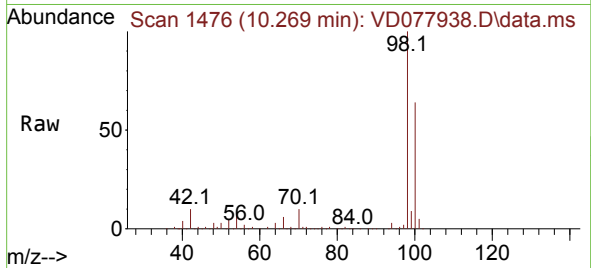




#50
Toluene-d8
Concen: 45.018 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12

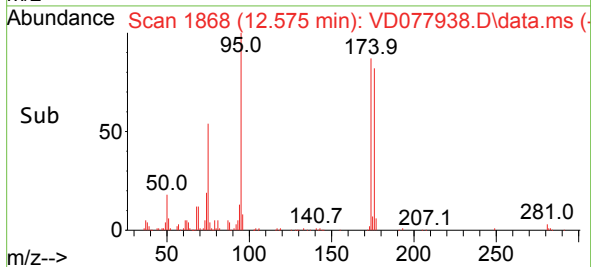
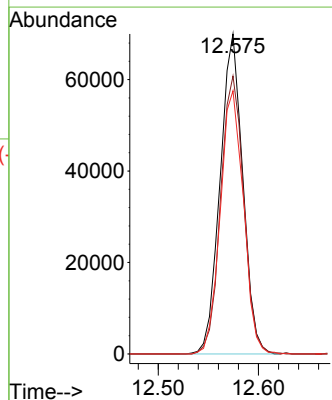
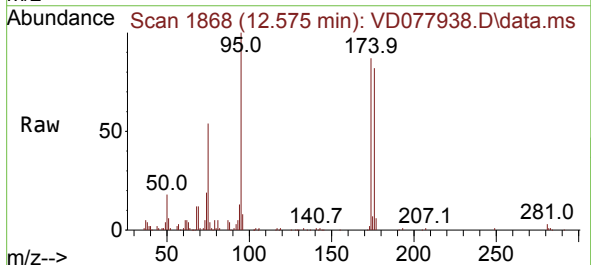
Instrument :
MSVOA_D
ClientSampleId :

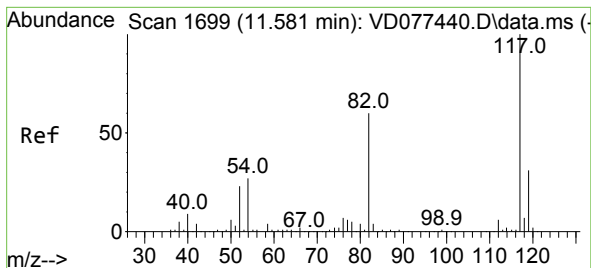
Tgt Ion: 98 Resp: 406717
Ion Ratio Lower Upper
98 100
100 63.0 50.3 75.5



#62
4-Bromofluorobenzene
Concen: 40.684 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12

Tgt Ion: 95 Resp: 109891
Ion Ratio Lower Upper
95 100
174 88.1 0.0 201.8
176 84.0 0.0 191.8

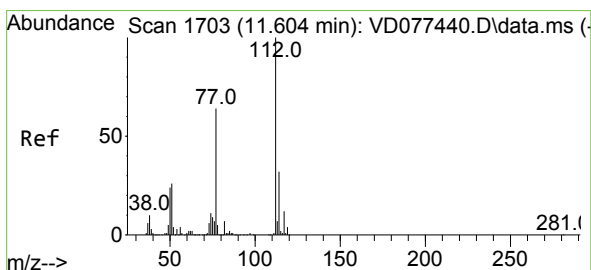
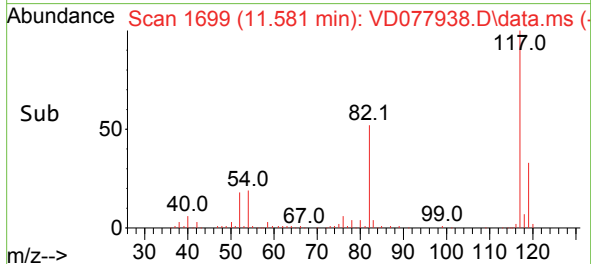
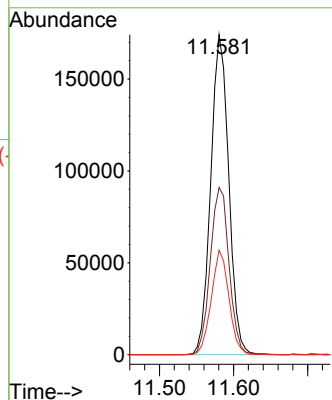
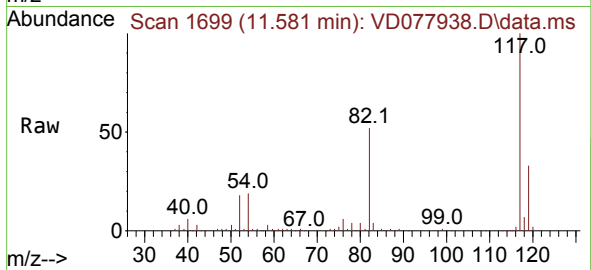




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12

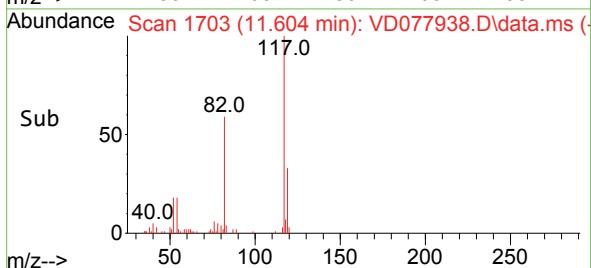
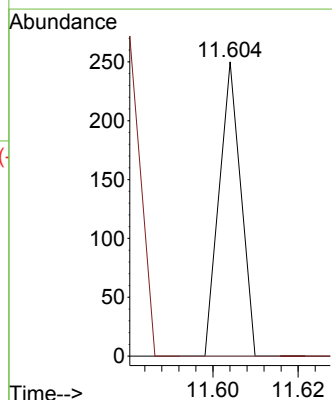
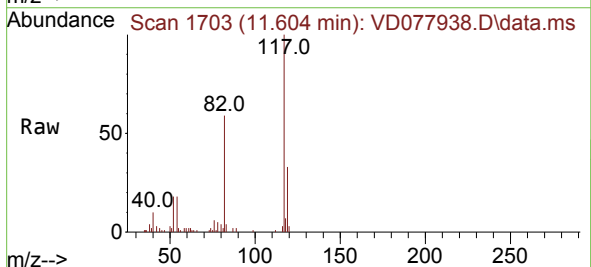
Instrument :
MSVOA_D
ClientSampleId :

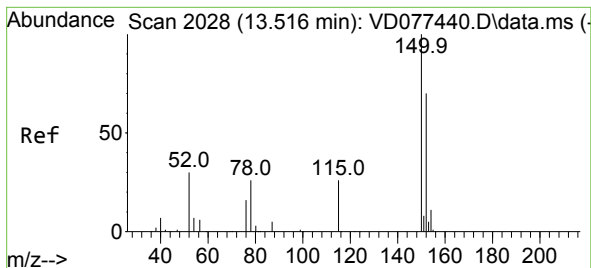
Tgt Ion:117 Resp: 293609
Ion Ratio Lower Upper
117 100
82 52.3 38.3 57.5
119 32.6 25.0 37.4



#65
Chlorobenzene
Concen: Below Cal
RT: 11.604 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12

Tgt Ion:112 Resp: 88
Ion Ratio Lower Upper
112 100
114 0.0 25.1 37.7#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 20

Delta R.T. -0.000 min

Lab File: VD077938.D

Acq: 16 Dec 2023 17:12

Instrument :

MSVOA_D

ClientSampleId :

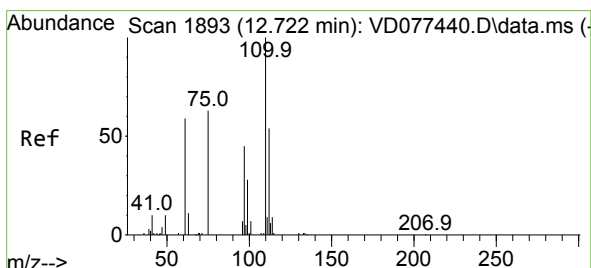
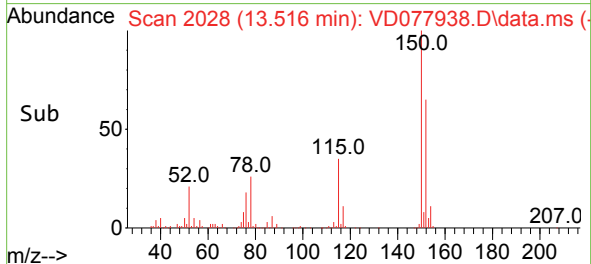
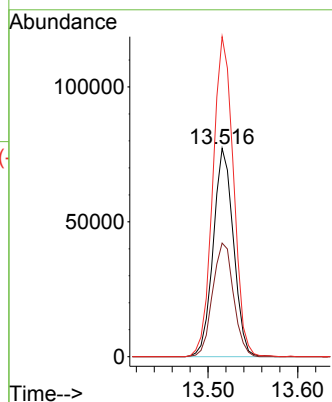
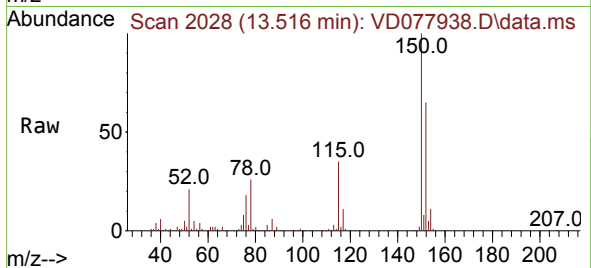
Tgt Ion:152 Resp: 120762

Ion Ratio Lower Upper

152 100

115 56.5 27.1 81.3

150 156.9 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 56.183 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.147 min

Lab File: VD077938.D

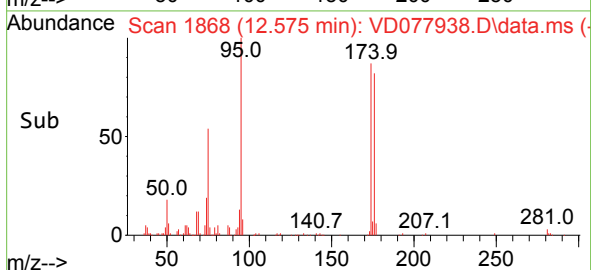
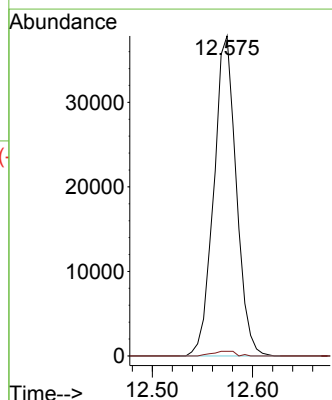
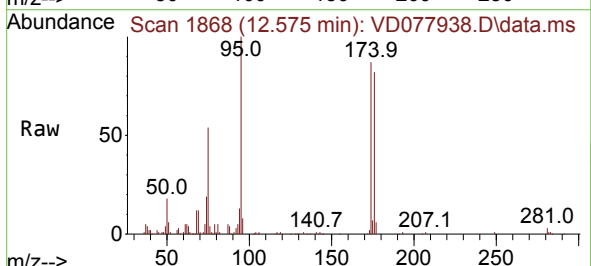
Acq: 16 Dec 2023 17:12

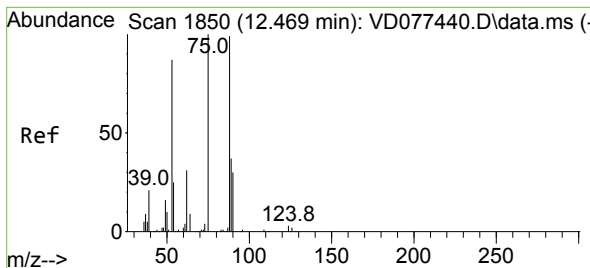
Tgt Ion: 75 Resp: 58926

Ion Ratio Lower Upper

75 100

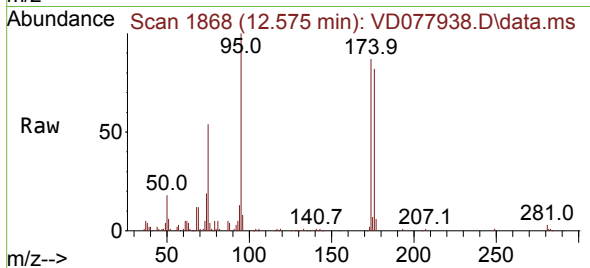
77 1.5 0.0 0.0#



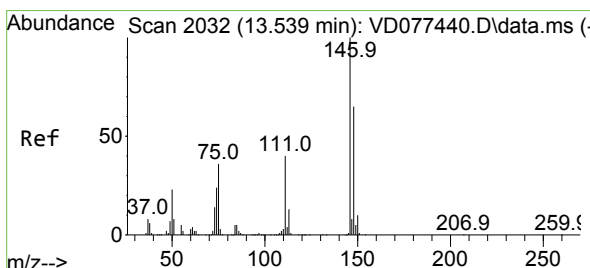
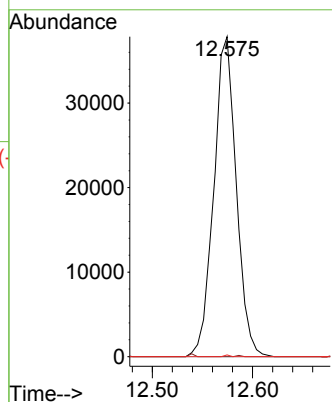
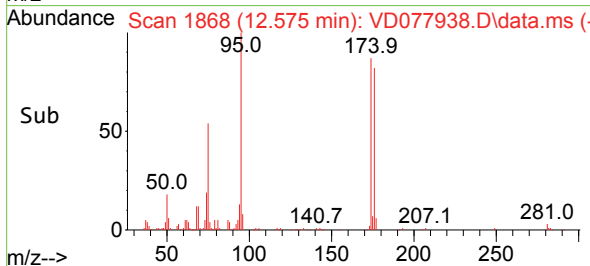


#81
trans-1,4-Dichloro-2-butene
Concen: 113.830 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12

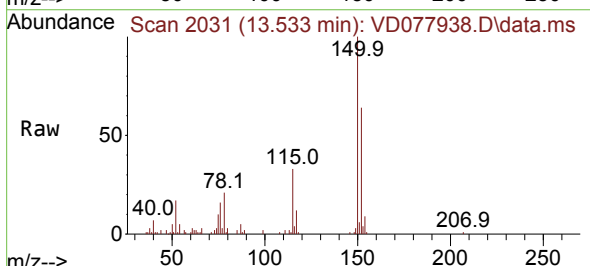
Instrument :
MSVOA_D
ClientSampleId :



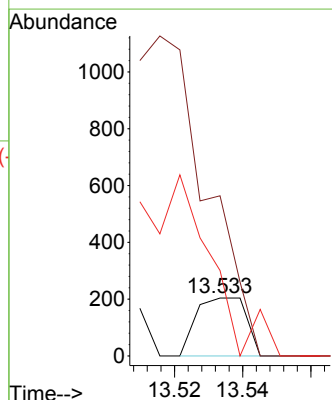
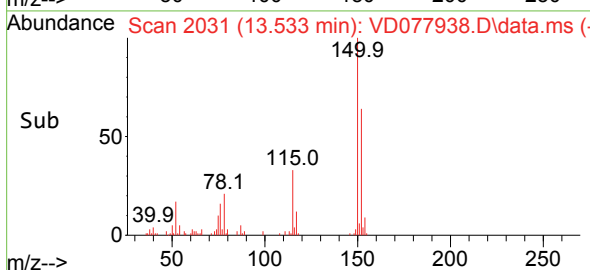
Tgt Ion: 75 Resp: 58926
Ion Ratio Lower Upper
75 100
53 0.1 63.0 94.4#
89 0.1 37.9 56.9#

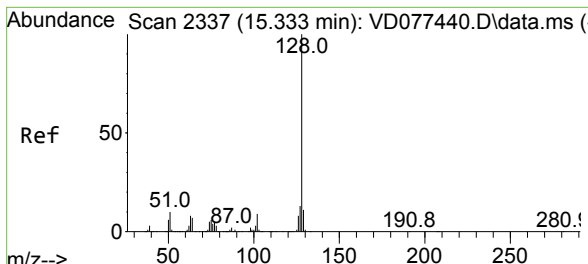


#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.533 min Scan# 2031
Delta R.T. -0.006 min
Lab File: VD077938.D
Acq: 16 Dec 2023 17:12



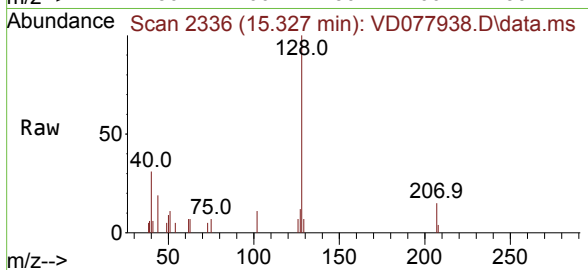
Tgt Ion: 146 Resp: 208
Ion Ratio Lower Upper
146 100
111 0.0 17.4 52.3#
148 0.0 31.7 95.1#





#95
 Naphthalene
 Concen: 1.469 ug/l
 RT: 15.327 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VD077938.D
 Acq: 16 Dec 2023 17:12

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	128	Resp:	6241
Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.5	15.7
129	7.3	8.7	13.1#

