

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD072624\
 Data File : VD079412.D
 Acq On : 26 Jul 2024 17:15
 Operator : RP/MD
 Sample : P3343-03
 Misc : 6.92G/5.0ml/MSVOA_D/SOIL/B
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 27 03:35:24 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072524S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 26 12:23:49 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	60639	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	144628	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.575	117	76883	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	12900	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	63057	111.044	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 222.080%#			
35) Dibromofluoromethane	7.799	113	68193	78.199	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 156.400%#			
50) Toluene-d8	10.269	98	166952	48.431	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.860%			
62) 4-Bromofluorobenzene	12.569	95	29317	27.457	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 54.920%			
Target Compounds						Qvalue
5) Bromomethane	2.693	94	55	3.441	ug/l #	2
10) Methyl Iodide	4.164	142	315	1.015	ug/l #	62
14) Allyl chloride	4.393	41	64	2.626	ug/l #	17
15) Acrylonitrile	5.293	53	67	5.829	ug/l #	17
16) Acetone	4.011	43	56	11.550	ug/l #	37
20) Methylene Chloride	4.793	84	13305	6.065	ug/l	94
24) 1,1-Dichloroethane	6.111	63	61	Below Cal	#	78
29) Tetrahydrofuran	7.452	42	135	6.474	ug/l #	21
30) Chloroform	7.605	83	372	Below Cal	#	18
31) Cyclohexane	7.869	56	1437	Below Cal	#	1
36) 1,1-Dichloropropene	7.881	75	5385	3.282	ug/l #	42
38) Carbon Tetrachloride	7.875	117	7061	2.891	ug/l #	17
40) Benzene	8.246	78	61	Below Cal	#	53
42) 1,2-Dichloroethane	8.228	62	67	Below Cal	#	1
55) 1,1,2-Trichloroethane	10.657	97	65	Below Cal	#	15
57) 1,3-Dichloropropane	10.863	76	56	Below Cal	#	1
65) Chlorobenzene	11.593	112	223	Below Cal	#	42
67) Ethyl Benzene	11.681	91	462	1.039	ug/l #	42
68) m/p-Xylenes	11.781	106	118	1.527	ug/l #	1
70) Styrene	12.134	104	403	1.365	ug/l #	56
71) Bromoform	12.298	173	78	Below Cal	#	29
74) N-amyl acetate	12.240	43	57	Below Cal	#	35
76) 1,2,3-Trichloropropane	12.569	75	15039	122.753	ug/l #	100
77) Bromobenzene	12.698	156	60	Below Cal	#	1
78) n-propylbenzene	12.757	91	533	Below Cal	#	51
80) 1,3,5-Trimethylbenzene	12.898	105	74	Below Cal	#	26
81) trans-1,4-Dichloro-2-b...	12.569	75	15039	252.401	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.210	105	578	1.224	ug/l	65
86) p-Isopropyltoluene	13.463	119	146	1.127	ug/l #	51
88) 1,4-Dichlorobenzene	13.451	146	546	Below Cal		89
89) n-Butylbenzene	13.793	91	682	1.425	ug/l #	85
93) 1,2,4-Trichlorobenzene	15.092	180	661	4.393	ug/l #	90
95) Naphthalene	15.328	128	2305	7.569	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.516	180	893	5.567	ug/l #	74

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Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Jul 27 03:35:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072524S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 26 12:23:49 2024
Response via : Initial Calibration

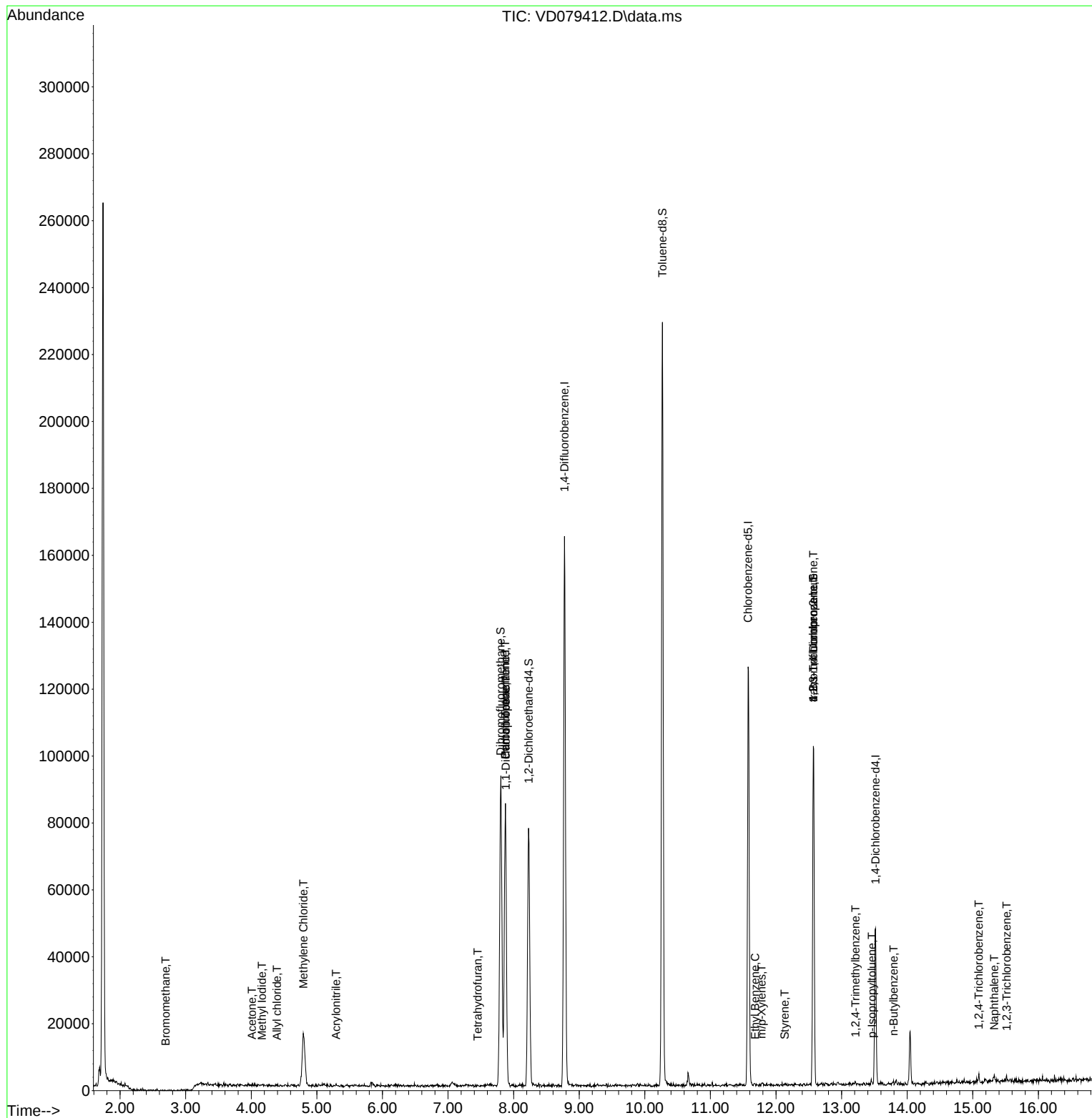
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

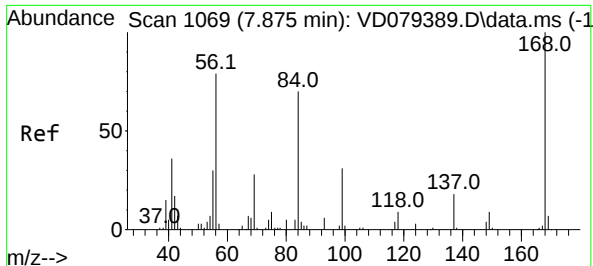
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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MSVOA_D
ClientSampleId :

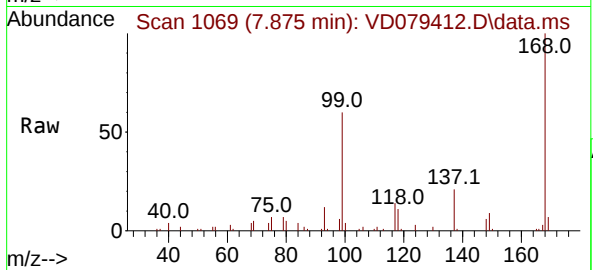
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072524S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 26 12:23:49 2024
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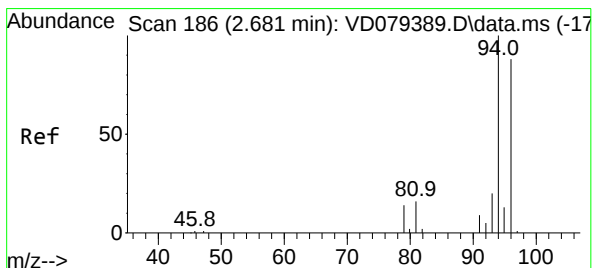
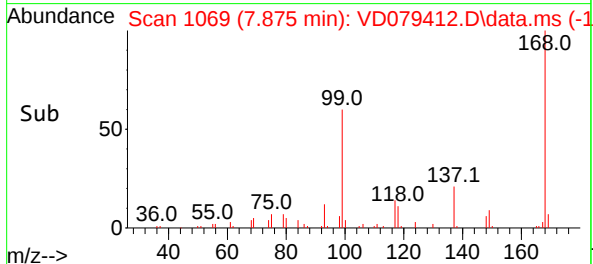
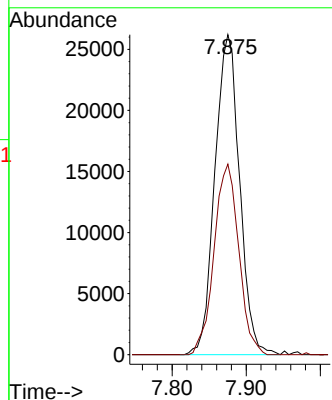


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

Instrument :
MSVOA_D
ClientSampleId :

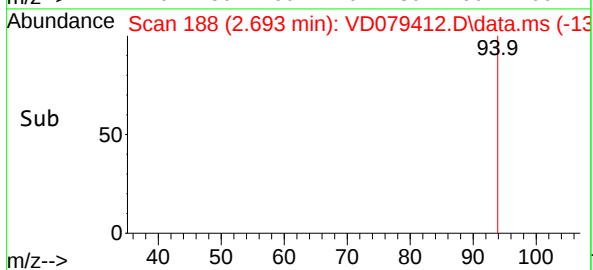
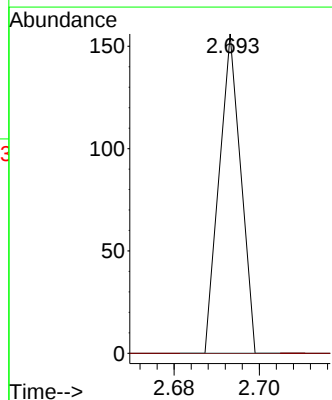
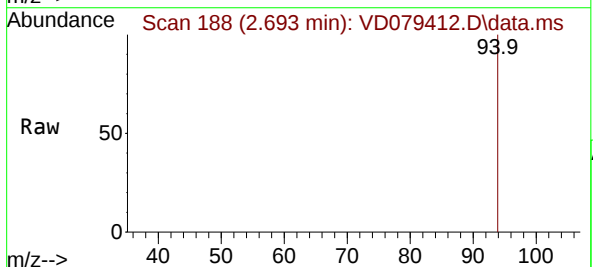


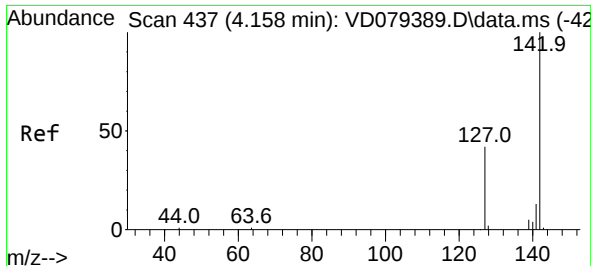
Tgt Ion:168 Resp: 60639
Ion Ratio Lower Upper
168 100
99 59.5 41.1 61.7



#5
Bromomethane
Concen: 3.441 ug/l
RT: 2.693 min Scan# 188
Delta R.T. 0.006 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

Tgt Ion: 94 Resp: 55
Ion Ratio Lower Upper
94 100
96 0.0 76.9 115.3#

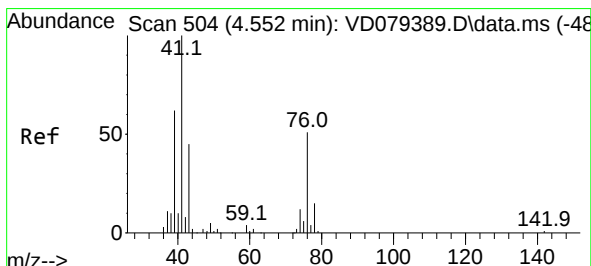
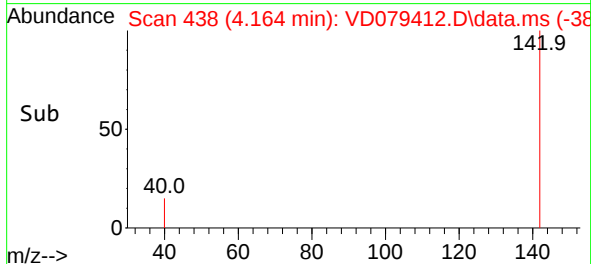
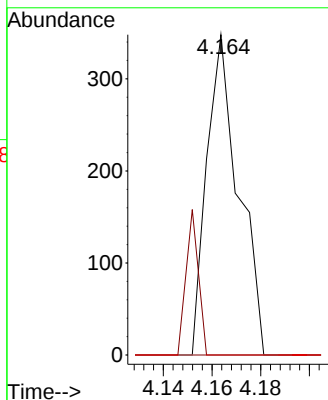
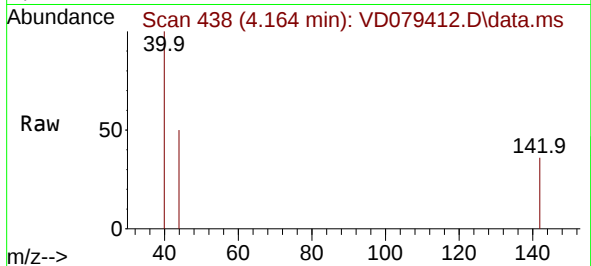




#10
Methyl Iodide
Concen: 1.015 ug/l
RT: 4.164 min Scan# 41
Delta R.T. 0.006 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

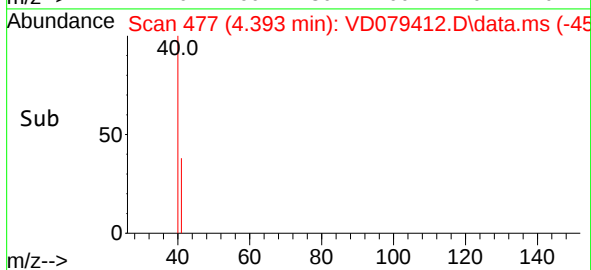
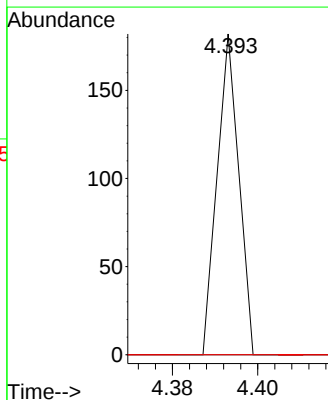
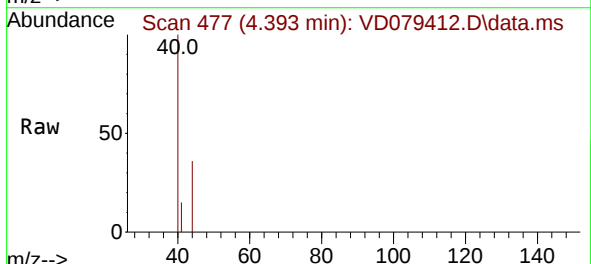
Instrument :
MSVOA_D
ClientSampleId :

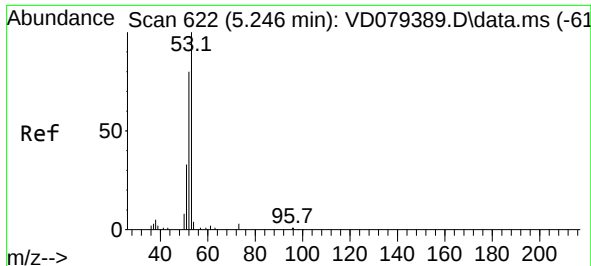
Tgt Ion:142 Resp: 315
Ion Ratio Lower Upper
142 100
127 17.8 34.2 51.4#
141 0.0 11.7 17.5#



#14
Allyl chloride
Concen: 2.626 ug/l
RT: 4.393 min Scan# 477
Delta R.T. -0.165 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

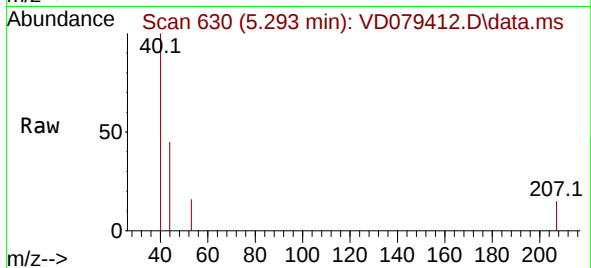
Tgt Ion: 41 Resp: 64
Ion Ratio Lower Upper
41 100
39 0.0 58.0 87.0#
76 0.0 45.9 68.9#



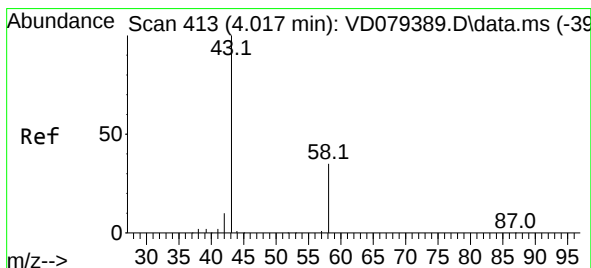
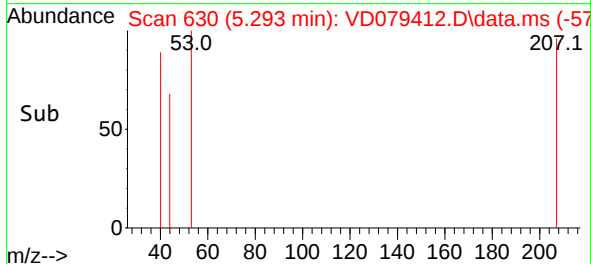
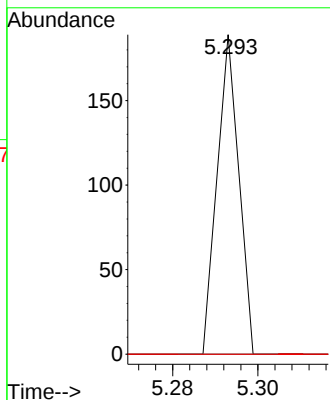


#15
Acrylonitrile
Concen: 5.829 ug/l
RT: 5.293 min Scan# 61
Delta R.T. 0.041 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

Instrument :
MSVOA_D
ClientSampleId :

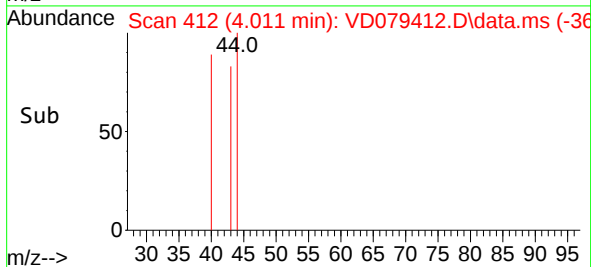
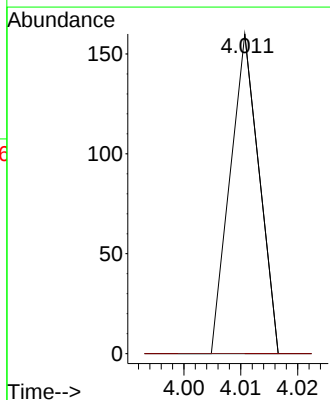
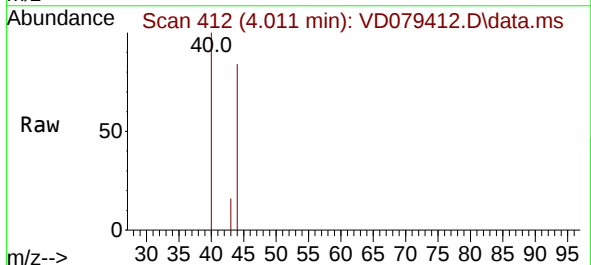


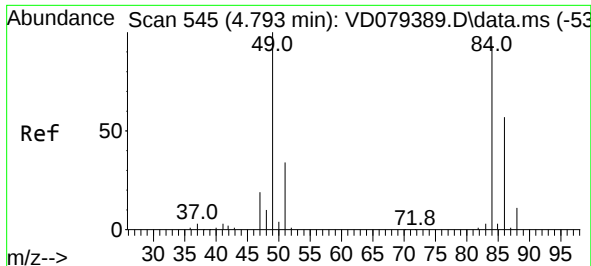
Tgt Ion: 53 Resp: 67
Ion Ratio Lower Upper
53 100
52 0.0 67.7 101.5#
51 0.0 28.6 42.8#



#16
Acetone
Concen: 11.550 ug/l
RT: 4.011 min Scan# 412
Delta R.T. -0.012 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

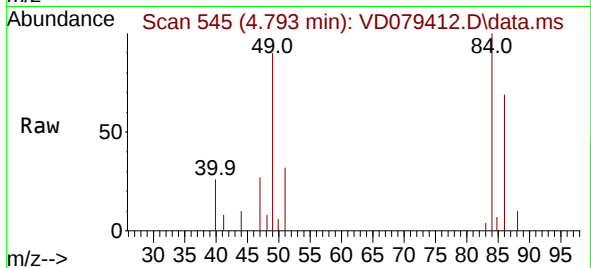
Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#



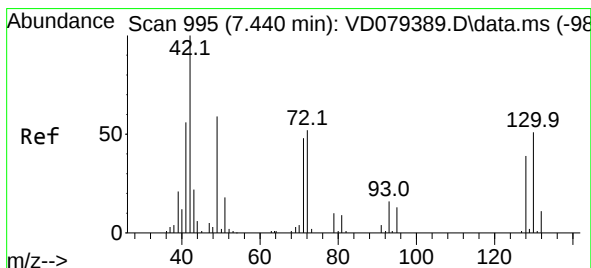
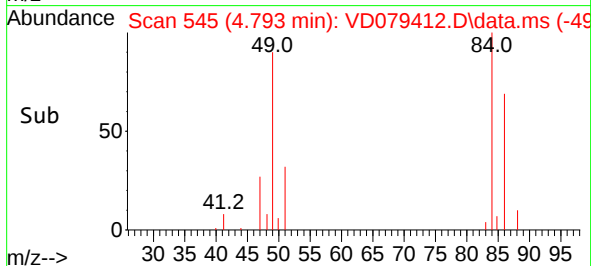
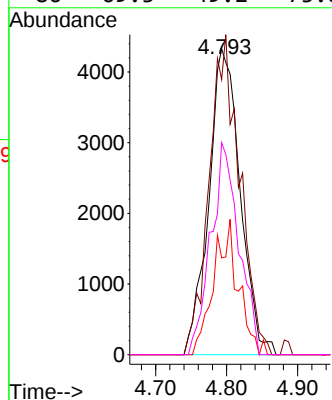


#20
Methylene Chloride
Concen: 6.065 ug/l
RT: 4.793 min Scan# 545
Delta R.T. -0.006 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

Instrument :
MSVOA_D
ClientSampleId :

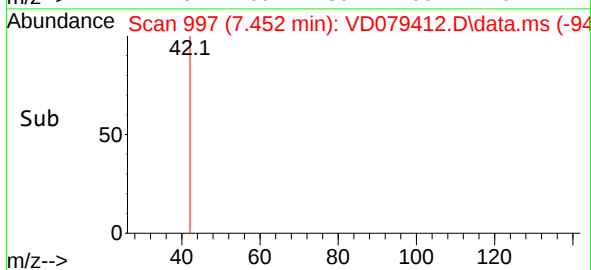
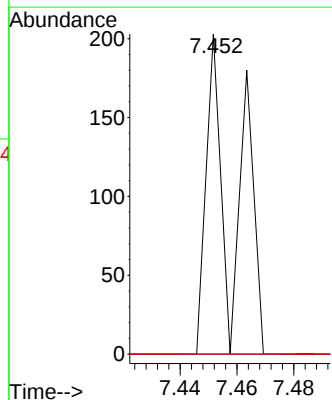
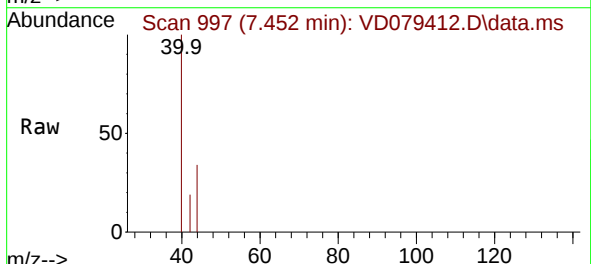


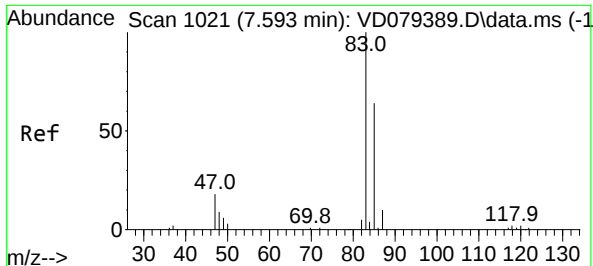
Tgt Ion:	84	Resp:	13305
Ion	Ratio	Lower	Upper
84	100		
49	89.9	75.6	113.4
51	31.7	24.2	36.2
86	69.3	49.2	73.8



#29
Tetrahydrofuran
Concen: 6.474 ug/l
RT: 7.452 min Scan# 997
Delta R.T. 0.006 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

Tgt Ion:	42	Resp:	135
Ion	Ratio	Lower	Upper
42	100		
72	0.0	49.4	74.0#
71	0.0	45.0	67.6#





#30

Chloroform

Concen: Below Cal

RT: 7.605 min Scan# 1102

Delta R.T. 0.012 min

Lab File: VD079412.D

Acq: 26 Jul 2024 17:15

Instrument :

MSVOA_D

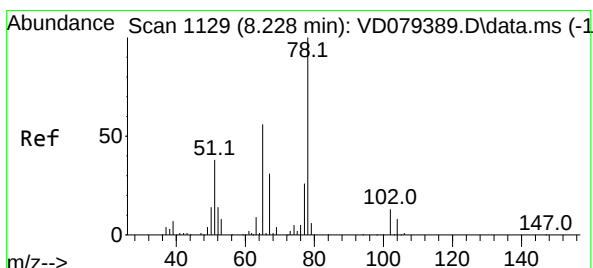
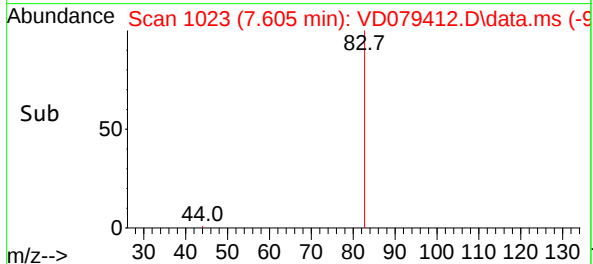
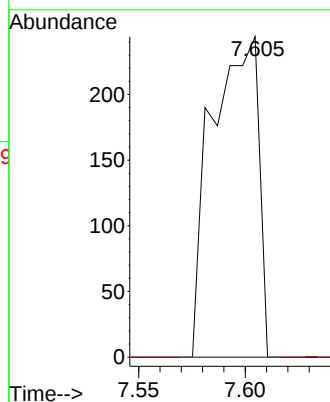
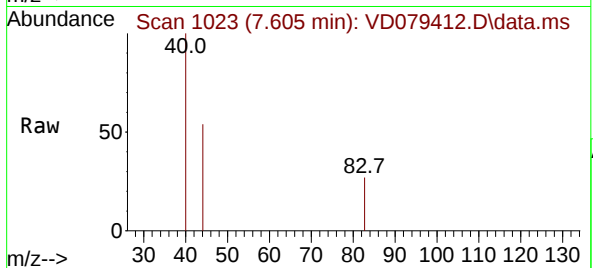
ClientSampleId :

Tgt Ion: 83 Resp: 372

Ion Ratio Lower Upper

83 100

85 0.0 51.8 77.6#



#33

1,2-Dichloroethane-d4

Concen: 111.044 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD079412.D

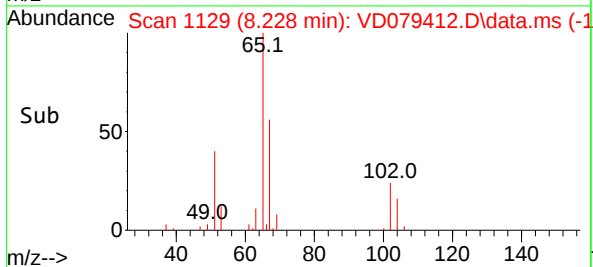
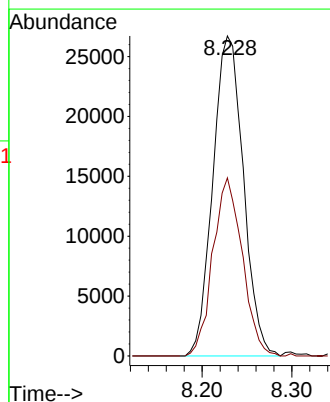
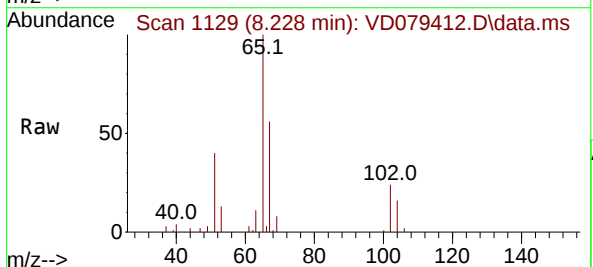
Acq: 26 Jul 2024 17:15

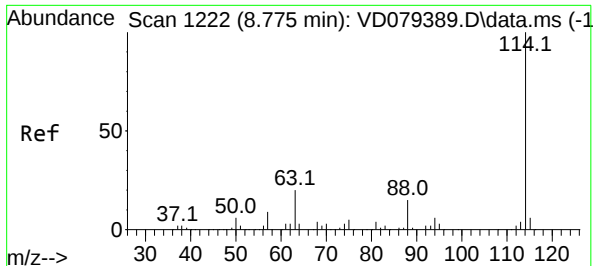
Tgt Ion: 65 Resp: 63057

Ion Ratio Lower Upper

65 100

67 53.6 0.0 111.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.000 min

Lab File: VD079412.D

Acq: 26 Jul 2024 17:15

Instrument :

MSVOA_D

ClientSampleId :

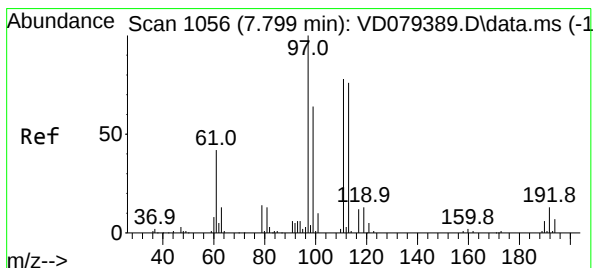
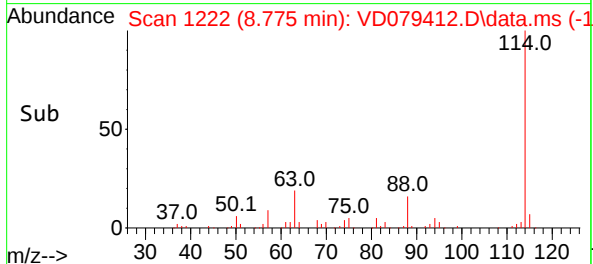
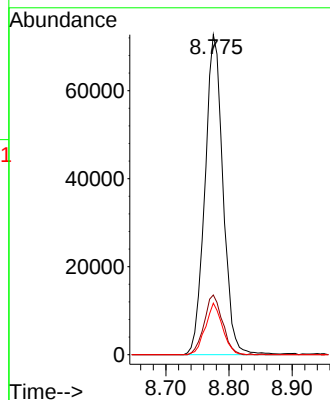
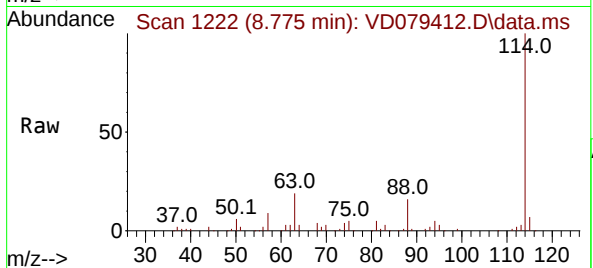
Tgt Ion:114 Resp: 144628

Ion Ratio Lower Upper

114 100

63 18.7 0.0 34.0

88 16.1 0.0 27.2



#35

Dibromofluoromethane

Concen: 78.199 ug/l

RT: 7.799 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VD079412.D

Acq: 26 Jul 2024 17:15

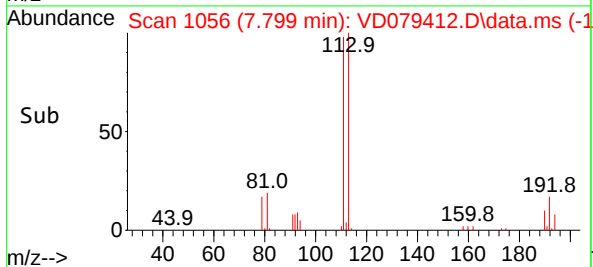
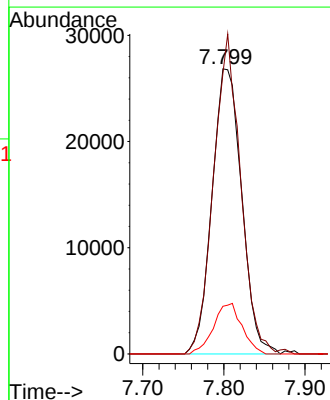
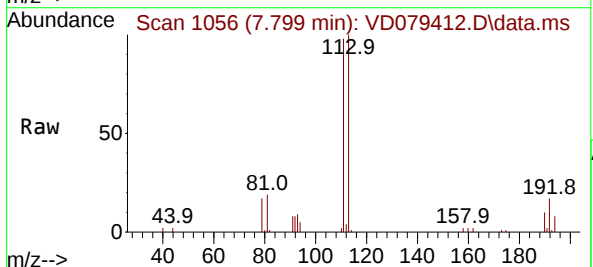
Tgt Ion:113 Resp: 68193

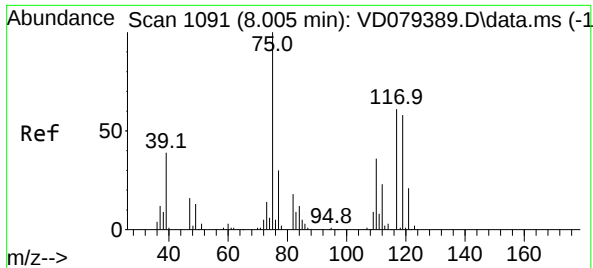
Ion Ratio Lower Upper

113 100

111 102.6 84.0 126.0

192 17.0 15.4 23.0

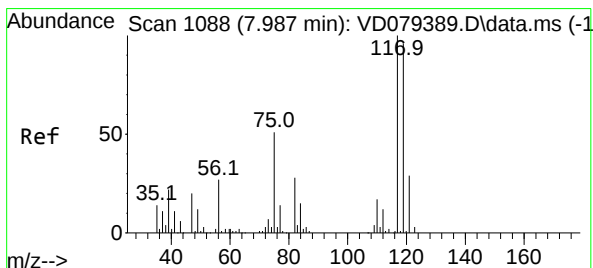
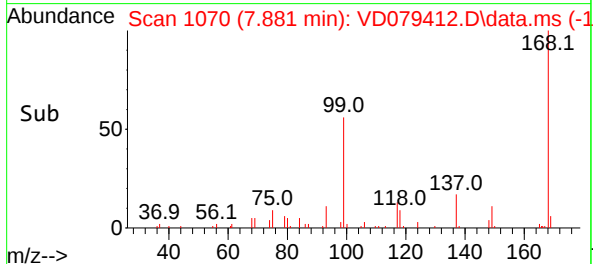
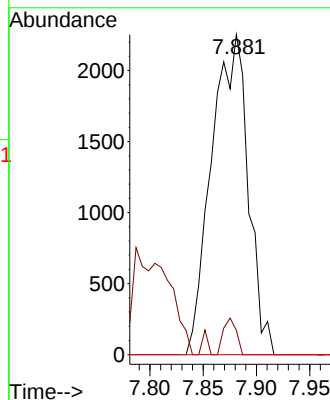
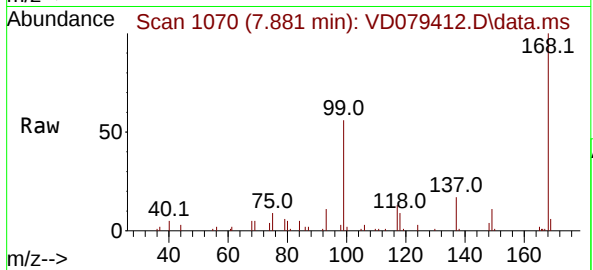




#36
 1,1-Dichloropropene
 Concen: 3.282 ug/l
 RT: 7.881 min Scan# 1069
 Delta R.T. -0.124 min
 Lab File: VD079412.D
 Acq: 26 Jul 2024 17:15

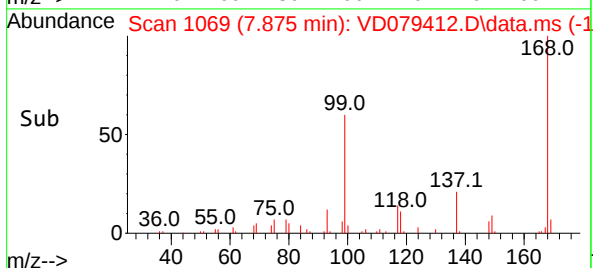
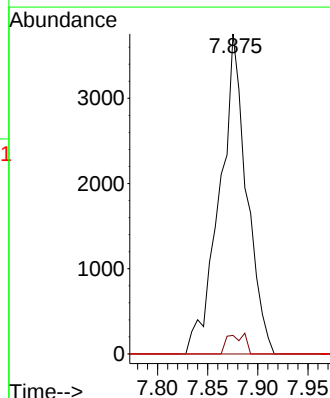
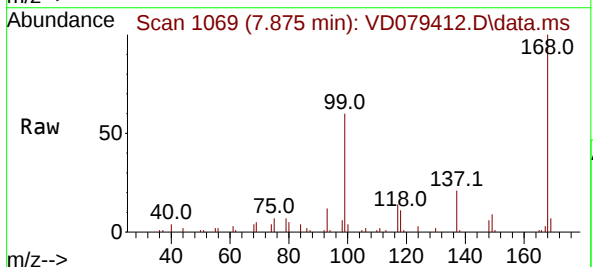
Instrument :
 MSVOA_D
 ClientSampleId :

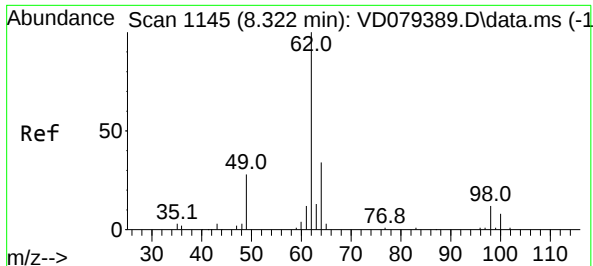
Tgt Ion: 75 Resp: 5385
 Ion Ratio Lower Upper
 75 100
 110 4.0 19.6 58.7#
 77 0.0 26.1 39.1#



#38
 Carbon Tetrachloride
 Concen: 2.891 ug/l
 RT: 7.875 min Scan# 1069
 Delta R.T. -0.118 min
 Lab File: VD079412.D
 Acq: 26 Jul 2024 17:15

Tgt Ion: 117 Resp: 7061
 Ion Ratio Lower Upper
 117 100
 119 5.8 75.4 113.0#
 121 0.0 25.0 37.4#





#42

1,2-Dichloroethane

Concen: Below Cal

RT: 8.228 min Scan# 1129

Delta R.T. -0.100 min

Lab File: VD079412.D

Acq: 26 Jul 2024 17:15

Instrument :

MSVOA_D

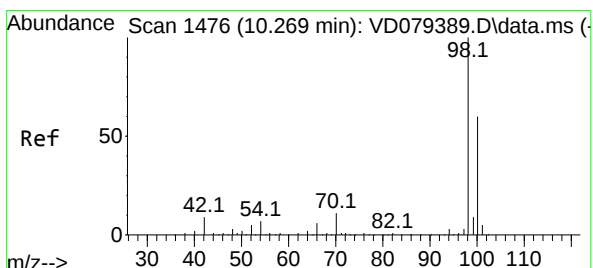
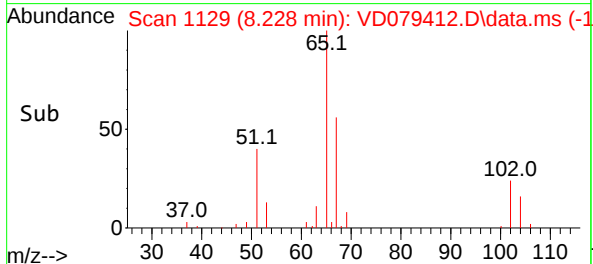
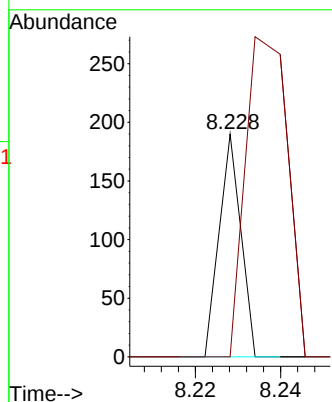
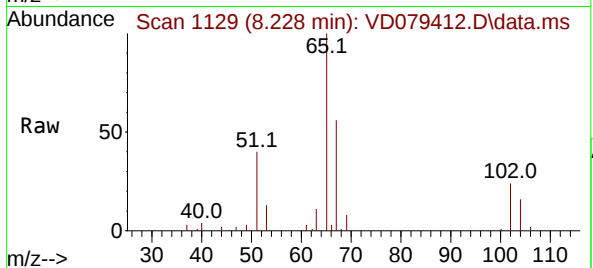
ClientSampleId :

Tgt Ion: 62 Resp: 67

Ion Ratio Lower Upper

62 100

98 279.1 0.0 25.8#



#50

Toluene-d8

Concen: 48.431 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VD079412.D

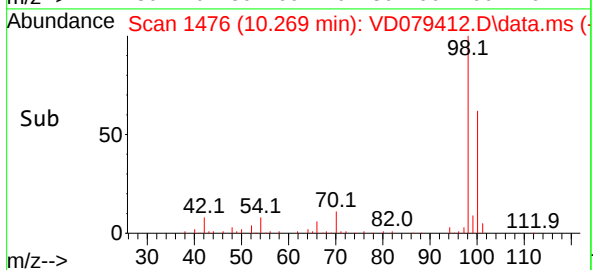
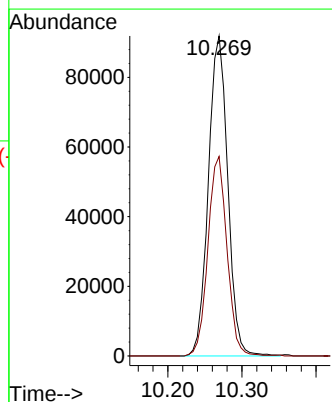
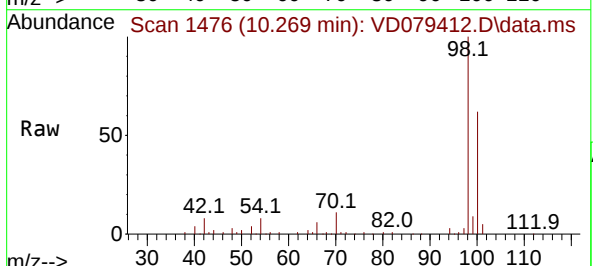
Acq: 26 Jul 2024 17:15

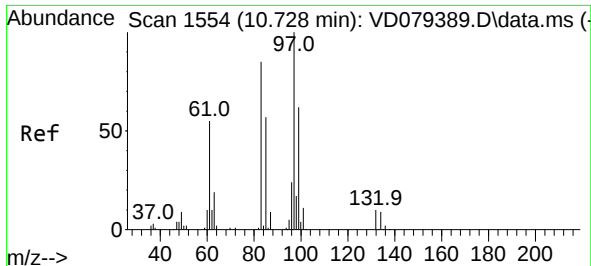
Tgt Ion: 98 Resp: 166952

Ion Ratio Lower Upper

98 100

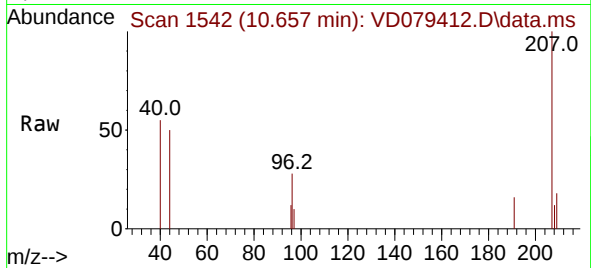
100 61.4 51.6 77.4



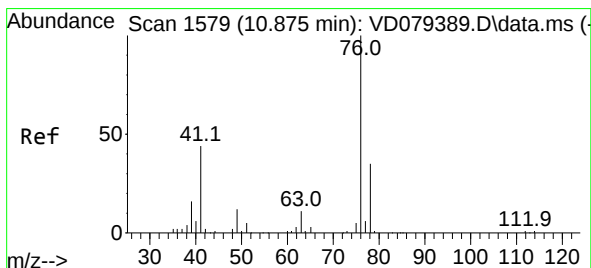
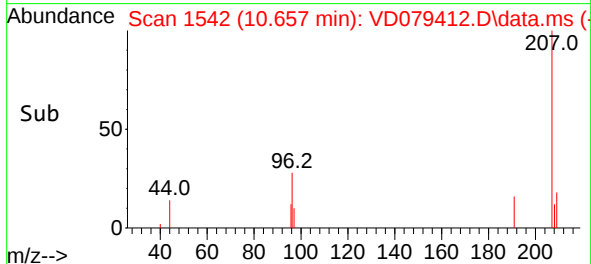
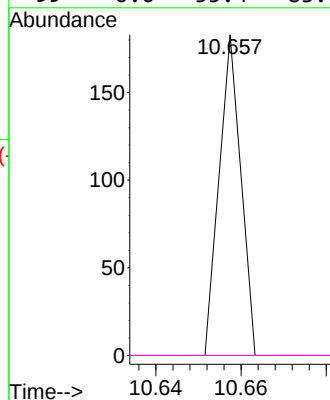


#55
 1,1,2-Trichloroethane
 Concen: Below Cal
 RT: 10.657 min Scan# 1542
 Delta R.T. -0.071 min
 Lab File: VD079412.D
 Acq: 26 Jul 2024 17:15

Instrument :
 MSVOA_D
 ClientSampleId :

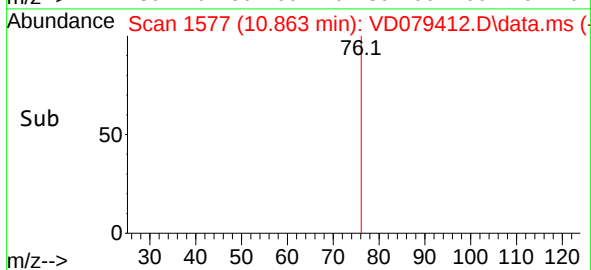
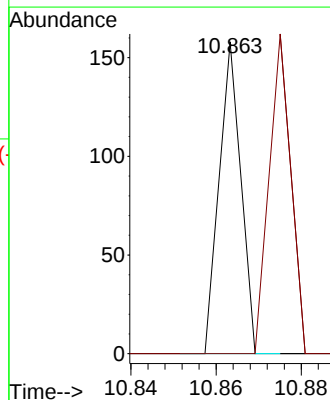
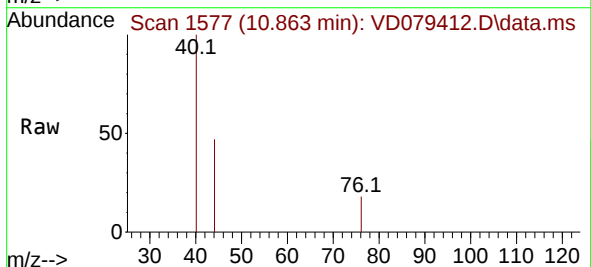


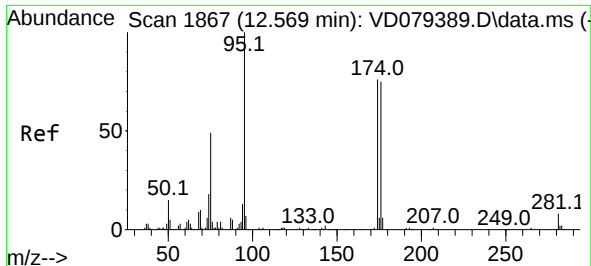
Tgt Ion: 97	Resp: 65
Ion Ratio	Lower Upper
97 100	
83 0.0	65.8 98.8#
85 0.0	43.8 65.8#
99 0.0	55.4 83.0#



#57
 1,3-Dichloropropane
 Concen: Below Cal
 RT: 10.863 min Scan# 1577
 Delta R.T. -0.012 min
 Lab File: VD079412.D
 Acq: 26 Jul 2024 17:15

Tgt Ion: 76	Resp: 56
Ion Ratio	Lower Upper
76 100	
78 101.8	26.2 39.2#

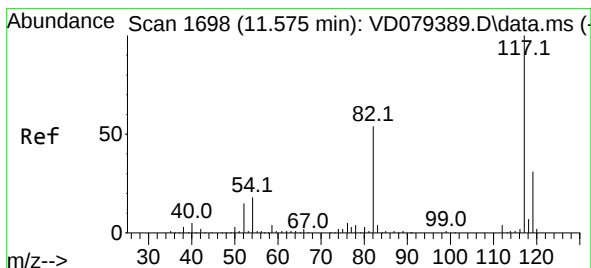
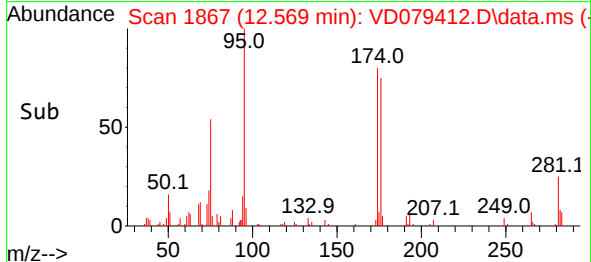
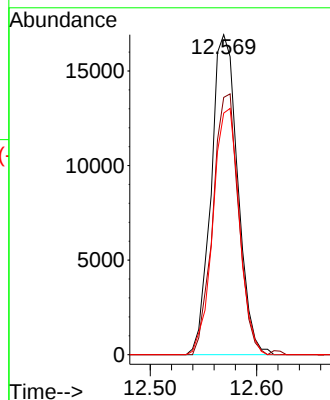
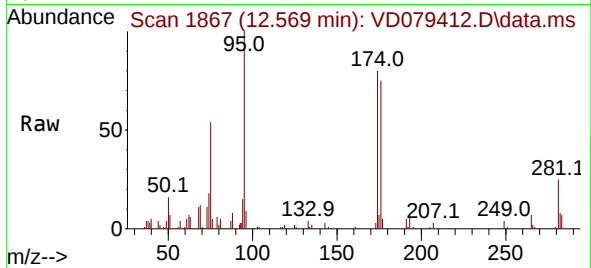




#62
4-Bromofluorobenzene
Concen: 27.457 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

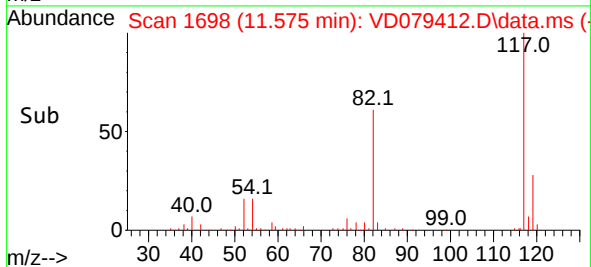
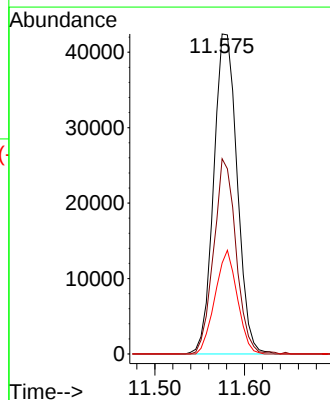
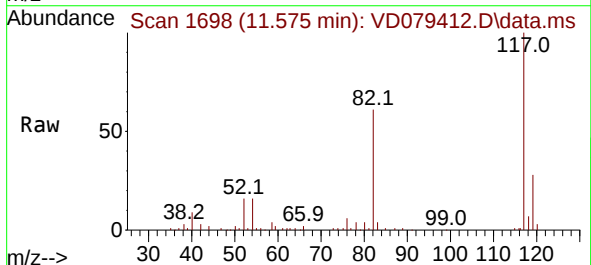
Instrument :
MSVOA_D
ClientSampleId :

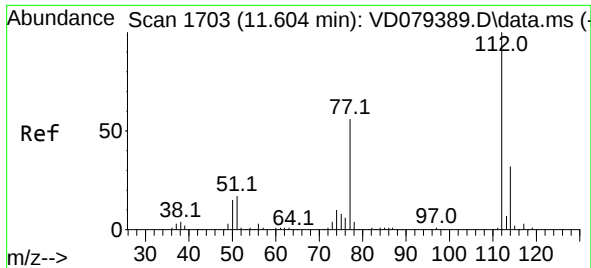
Tgt Ion:	95	Resp:	29317
Ion Ratio	Lower	Upper	
95	100		
174	78.8	0.0	195.4
176	76.1	0.0	192.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.575 min Scan# 1698
Delta R.T. -0.006 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

Tgt Ion:	117	Resp:	76883
Ion Ratio	Lower	Upper	
117	100		
82	61.0	39.8	59.6#
119	28.4	25.7	38.5

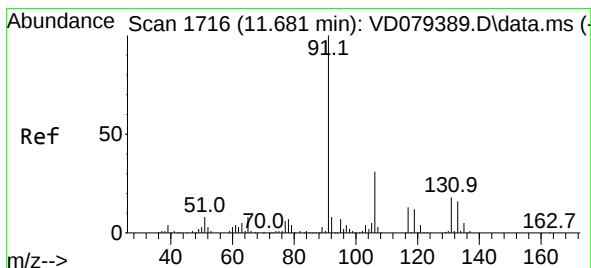
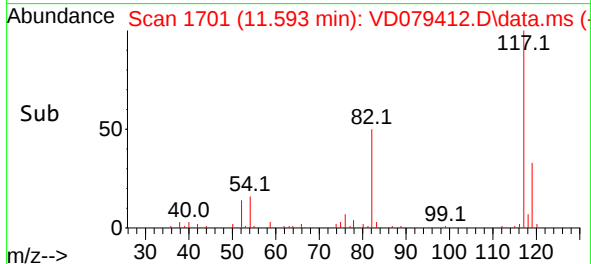
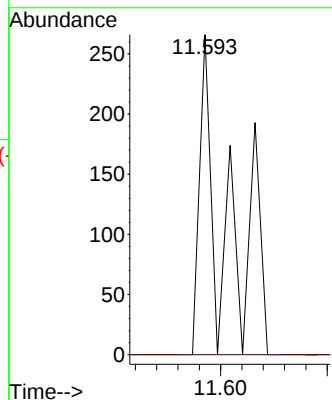
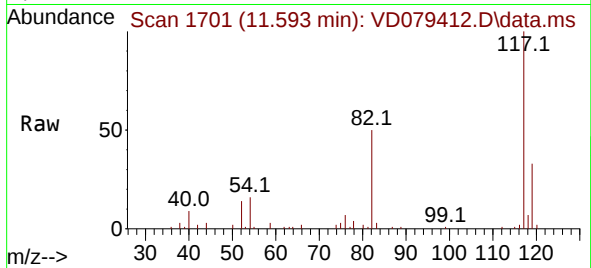




#65
Chlorobenzene
Concen: Below Cal
RT: 11.593 min Scan# 11
Delta R.T. -0.012 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

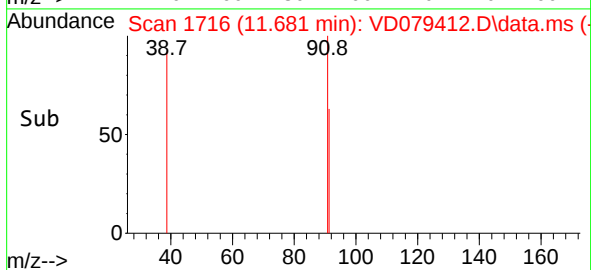
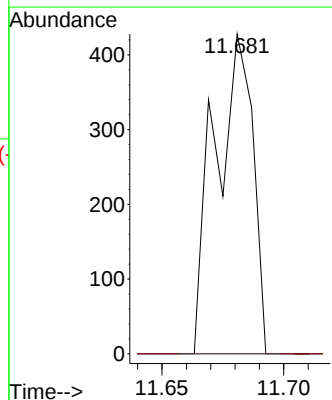
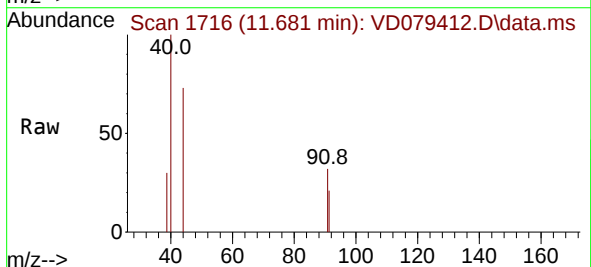
Instrument :
MSVOA_D
ClientSampleId :

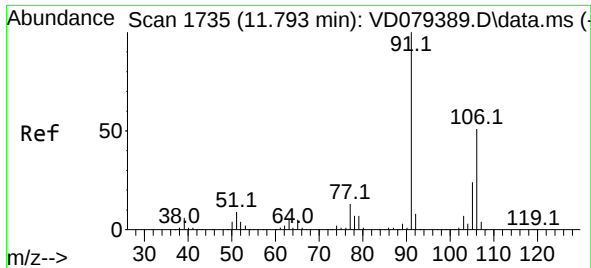
Tgt Ion:112 Resp: 223
Ion Ratio Lower Upper
112 100
114 0.0 26.0 39.0#



#67
Ethyl Benzene
Concen: 1.039 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

Tgt Ion: 91 Resp: 462
Ion Ratio Lower Upper
91 100
106 0.0 25.8 38.6#

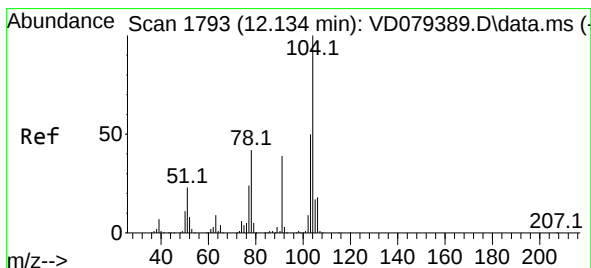
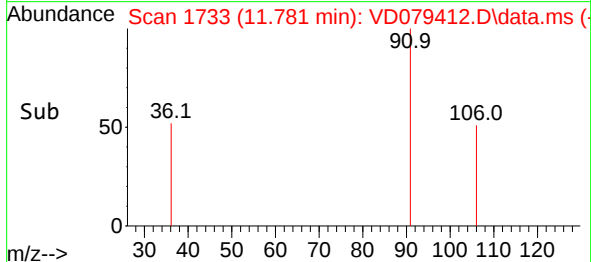
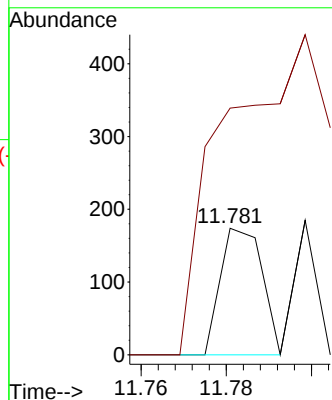
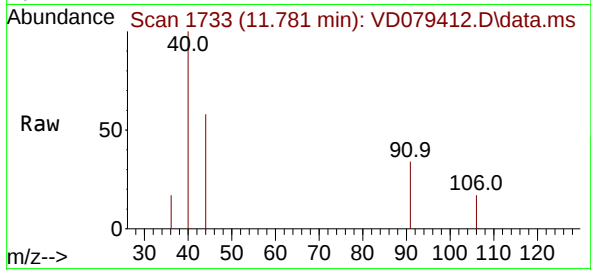




#68
m/p-Xylenes
Concen: 1.527 ug/l
RT: 11.781 min Scan# 11
Delta R.T. -0.012 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

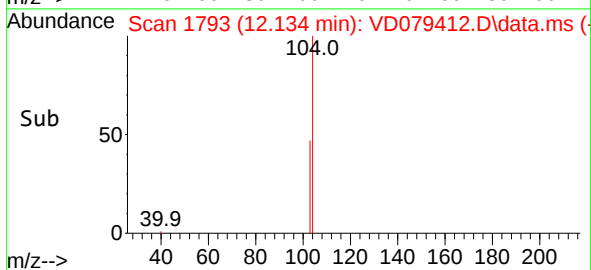
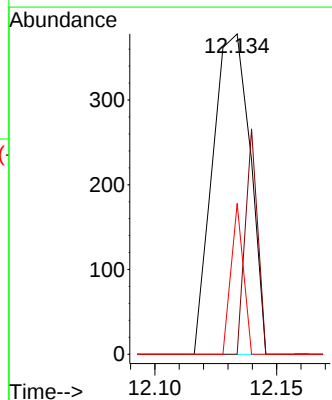
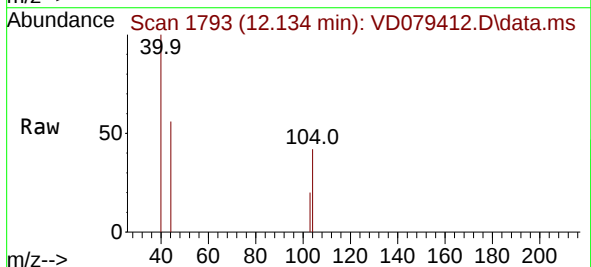
Instrument :
MSVOA_D
ClientSampleId :

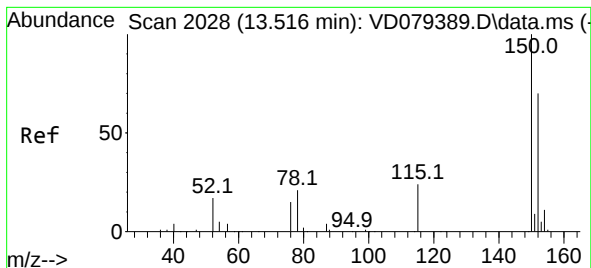
Tgt Ion:106 Resp: 118
Ion Ratio Lower Upper
106 100
91 617.8 148.5 222.7#



#70
Styrene
Concen: 1.365 ug/l
RT: 12.134 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

Tgt Ion:104 Resp: 403
Ion Ratio Lower Upper
104 100
78 23.3 33.0 49.6#
103 15.6 44.2 66.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 20

Delta R.T. -0.000 min

Lab File: VD079412.D

Acq: 26 Jul 2024 17:15

Instrument :

MSVOA_D

ClientSampleId :

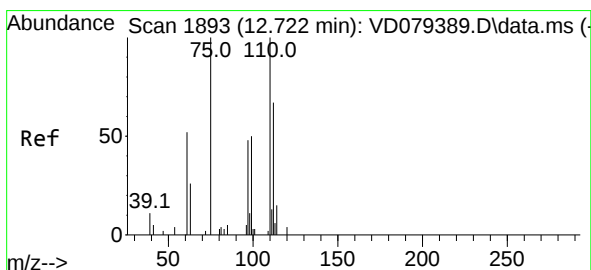
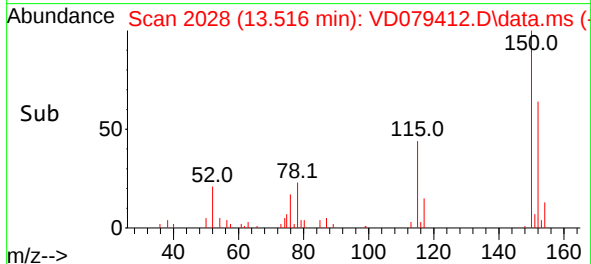
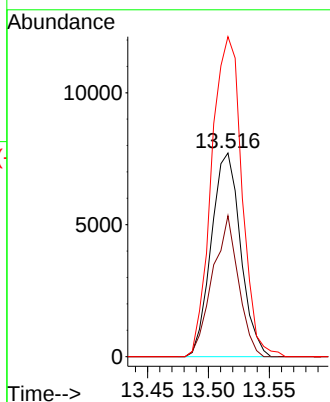
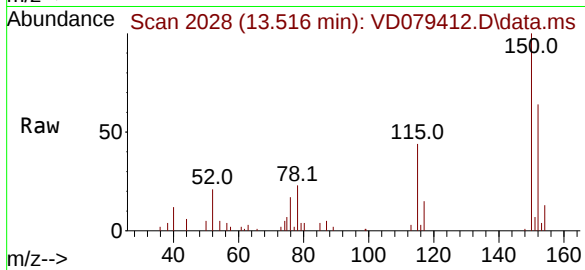
Tgt Ion:152 Resp: 12900

Ion Ratio Lower Upper

152 100

115 61.5 26.5 79.5

150 162.9 0.0 341.6



#76

1,2,3-Trichloropropane

Concen: 122.753 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.153 min

Lab File: VD079412.D

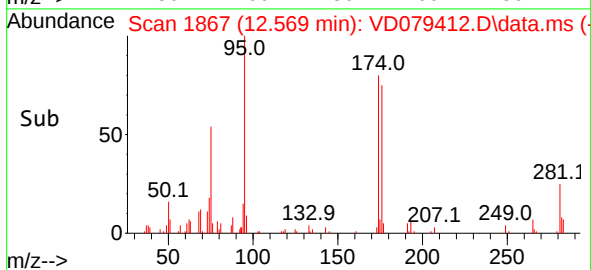
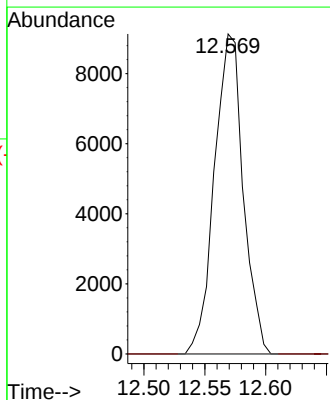
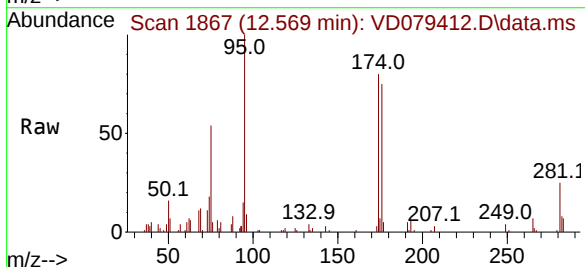
Acq: 26 Jul 2024 17:15

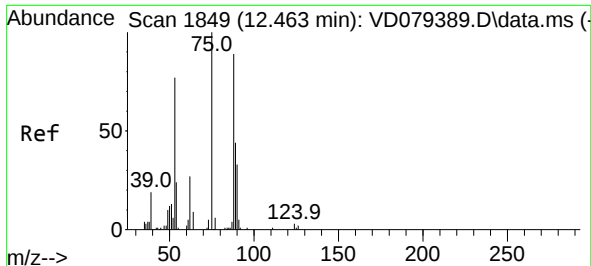
Tgt Ion: 75 Resp: 15039

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

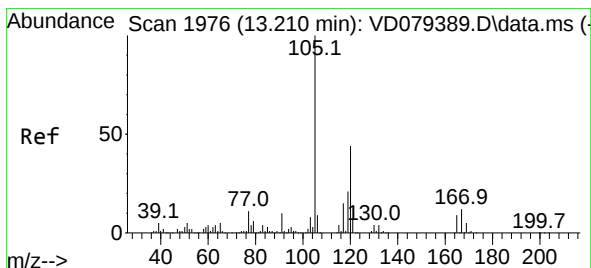
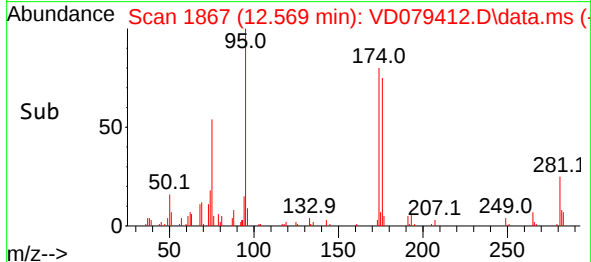
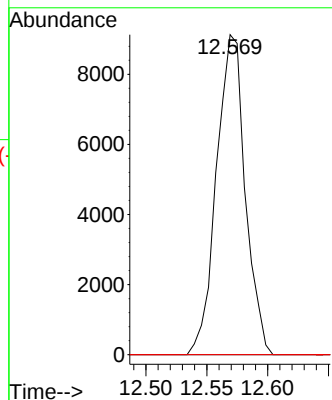
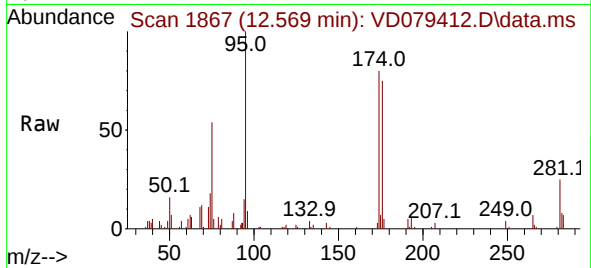




#81
trans-1,4-Dichloro-2-butene
Concen: 252.401 ug/l
RT: 12.569 min Scan# 1849
Delta R.T. 0.106 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

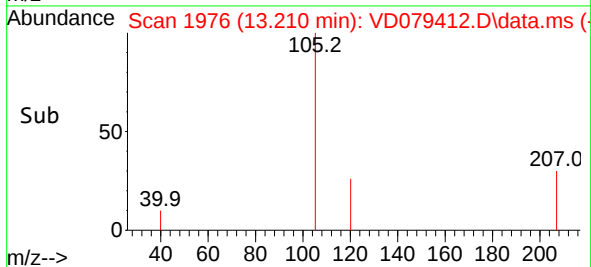
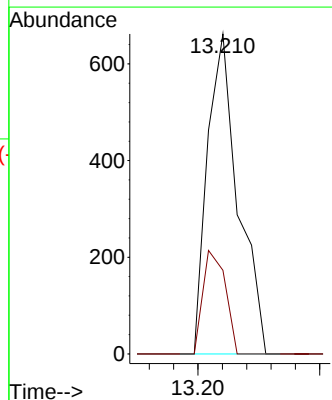
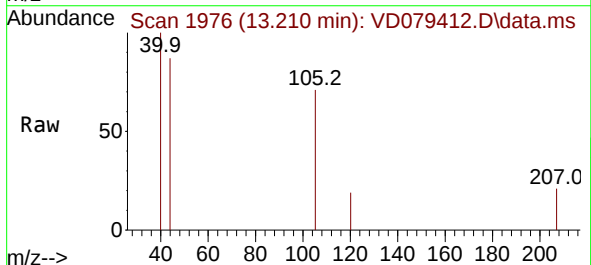
Instrument :
MSVOA_D
ClientSampleId :

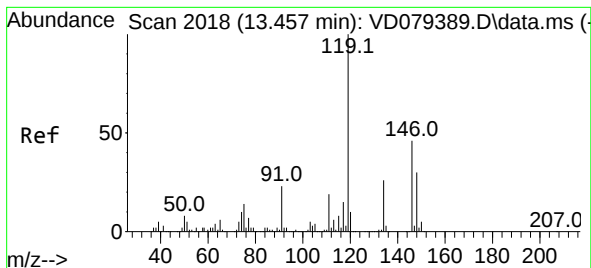
Tgt Ion: 75 Resp: 15039
Ion Ratio Lower Upper
75 100
53 0.0 61.4 92.2#
89 0.0 35.4 53.0#



#84
1,2,4-Trimethylbenzene
Concen: 1.224 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. -0.000 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

Tgt Ion:105 Resp: 578
Ion Ratio Lower Upper
105 100
120 23.7 23.6 71.0





#86

p-Isopropyltoluene

Concen: 1.127 ug/l

RT: 13.463 min Scan# 2018

Delta R.T. 0.006 min

Lab File: VD079412.D

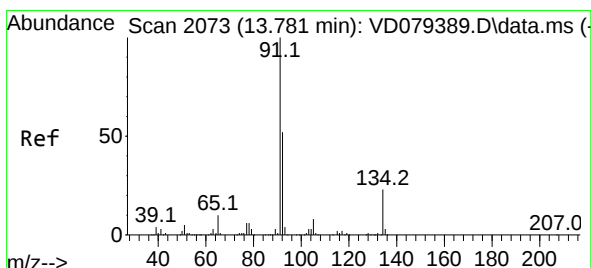
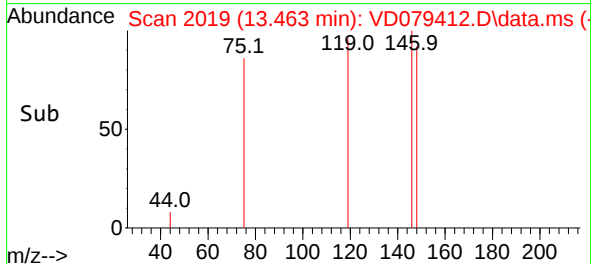
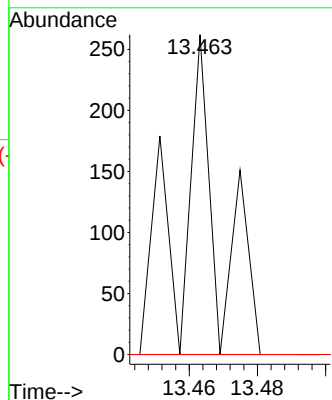
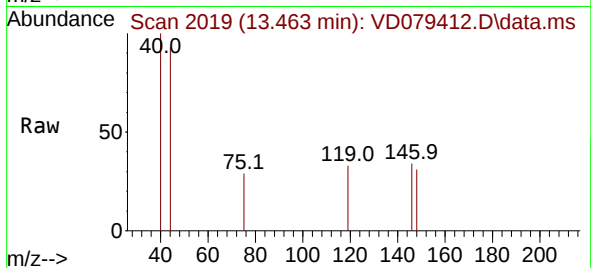
Acq: 26 Jul 2024 17:15

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	119	Resp:	146
Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.7	41.1#
91	0.0	10.7	32.1#



#89

n-Butylbenzene

Concen: 1.425 ug/l

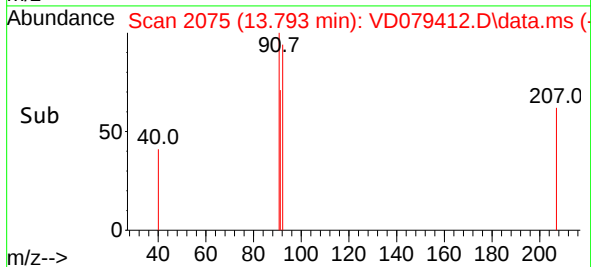
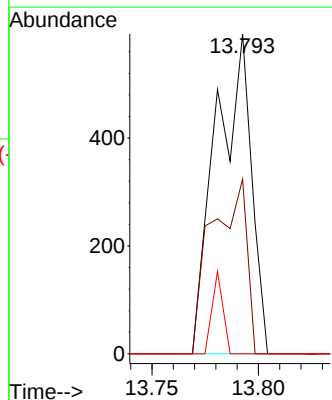
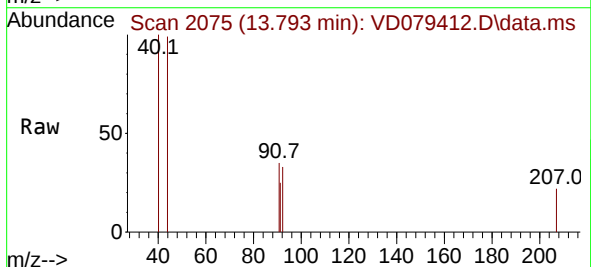
RT: 13.793 min Scan# 2075

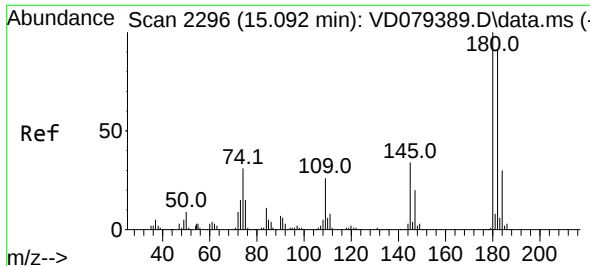
Delta R.T. 0.012 min

Lab File: VD079412.D

Acq: 26 Jul 2024 17:15

Tgt Ion:	91	Resp:	682
Ion	Ratio	Lower	Upper
91	100		
92	54.0	25.7	77.0
134	7.9	13.6	40.8#

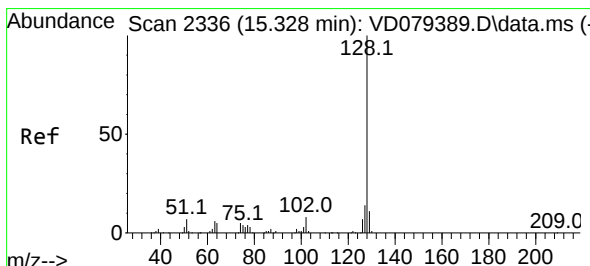
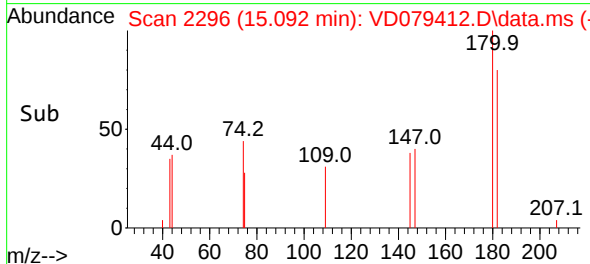
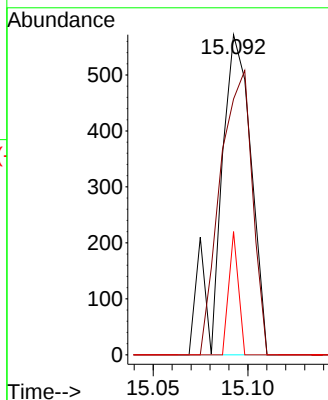
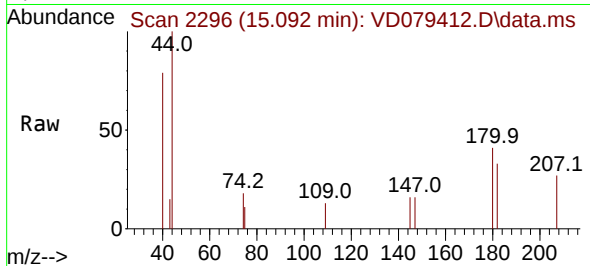




#93
1,2,4-Trichlorobenzene
Concen: 4.393 ug/l
RT: 15.092 min Scan# 21
Delta R.T. -0.000 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

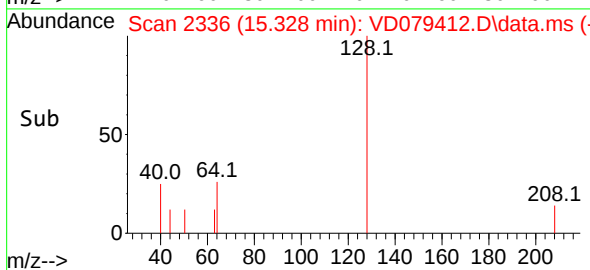
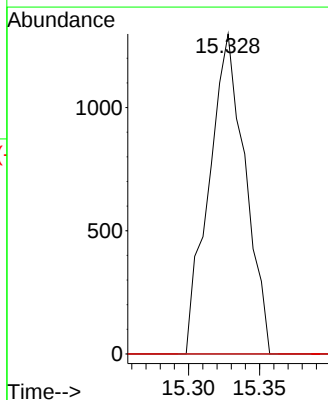
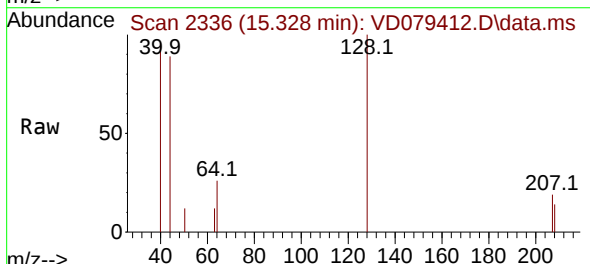
Instrument :
MSVOA_D
ClientSampleId :

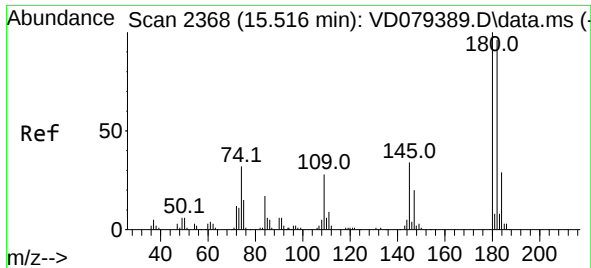
Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.2	46.9	140.7
145	11.8	14.0	41.9#



#95
Naphthalene
Concen: 7.569 ug/l
RT: 15.328 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VD079412.D
Acq: 26 Jul 2024 17:15

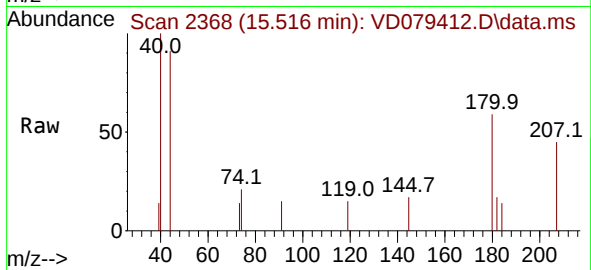
Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.5	12.7#





#96
 1,2,3-Trichlorobenzene
 Concen: 5.567 ug/l
 RT: 15.516 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VD079412.D
 Acq: 26 Jul 2024 17:15

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	180	Resp:	893
Ion	Ratio	Lower	Upper
180	100		
182	75.6	47.8	143.3
145	7.4	16.1	48.2#

