

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD022624\
 Data File : VD078551.D
 Acq On : 26 Feb 2024 13:58
 Operator : RP/MD
 Sample : P1588-02
 Misc : 5.01G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1839

Quant Time: Feb 27 03:27:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D021324S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 14 01:16:20 2024
 Response via : Initial Calibration

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

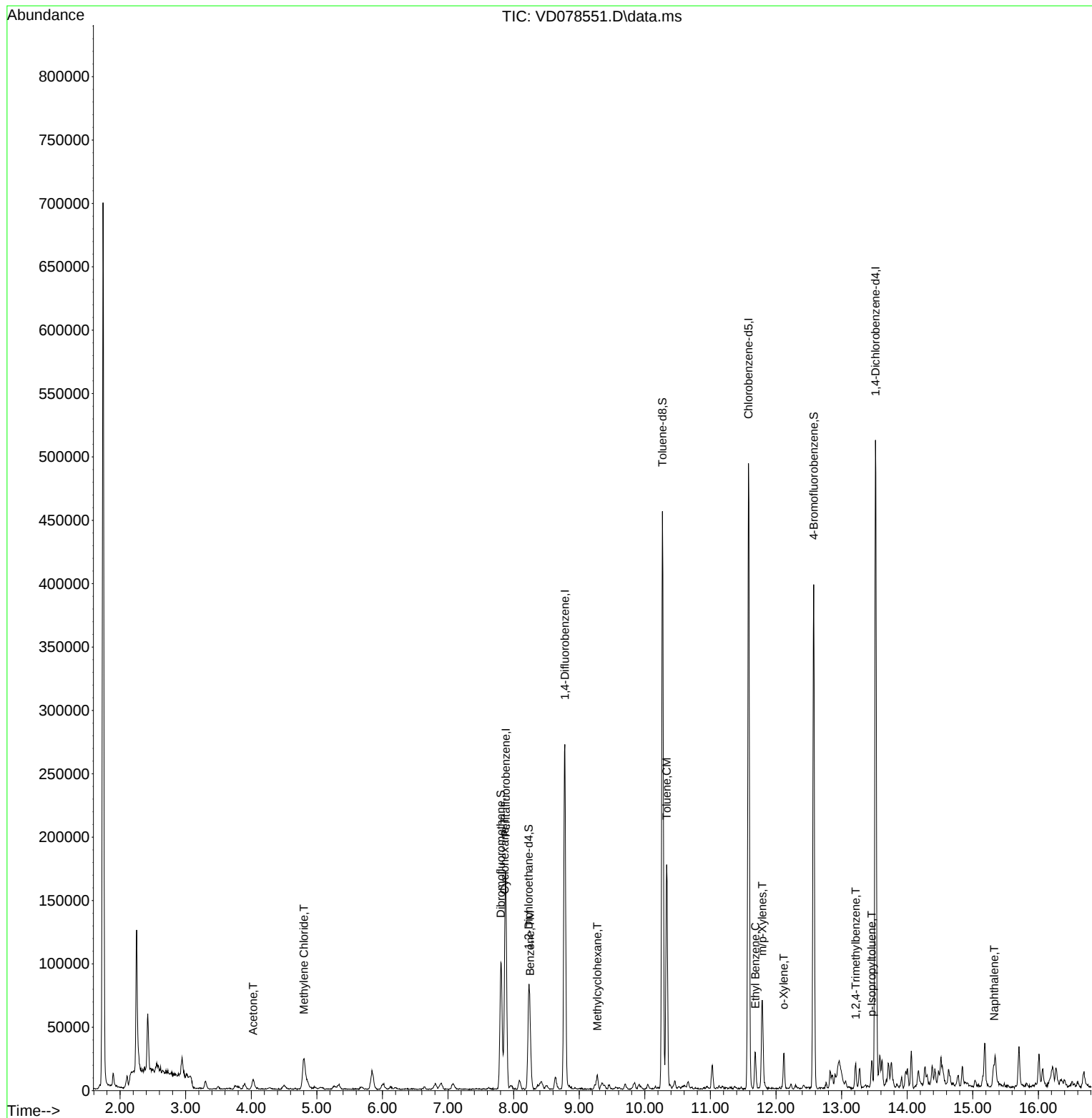
Internal Standards						
1) Pentafluorobenzene	7.881	168	127469	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	253009	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	296691	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	143029	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	52439	38.047	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	76.100%		
35) Dibromofluoromethane	7.805	113	72331	45.005	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	90.020%		
50) Toluene-d8	10.269	98	315832	49.126	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	98.260%		
62) 4-Bromofluorobenzene	12.575	95	122352	65.398	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	130.800%		
Target Compounds						
					Qvalue	
16) Acetone	4.028	43	12627	25.872	ug/l	96
20) Methylene Chloride	4.805	84	18531	9.358	ug/l	95
31) Cyclohexane	7.863	56	5972	2.561	ug/l #	65
39) Methylcyclohexane	9.275	83	4086	1.379	ug/l #	82
40) Benzene	8.252	78	31667	4.388	ug/l	95
52) Toluene	10.334	92	81034	17.757	ug/l	95
67) Ethyl Benzene	11.687	91	20242	1.894	ug/l	92
68) m/p-Xylenes	11.793	106	22908	5.495	ug/l	85
69) o-Xylene	12.116	106	7547	1.984	ug/l	83
84) 1,2,4-Trimethylbenzene	13.216	105	10985	1.357	ug/l	98
86) p-Isopropyltoluene	13.457	119	13133	1.478	ug/l	98
95) Naphthalene	15.328	128	11636	2.639	ug/l #	93

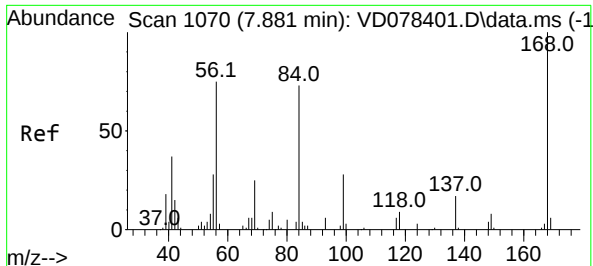
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

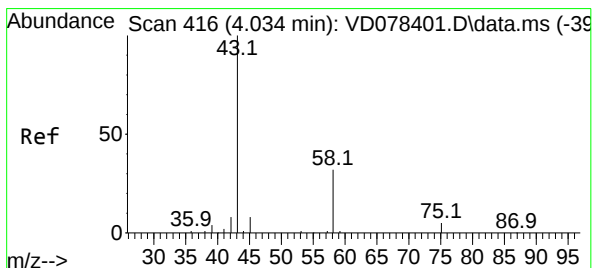
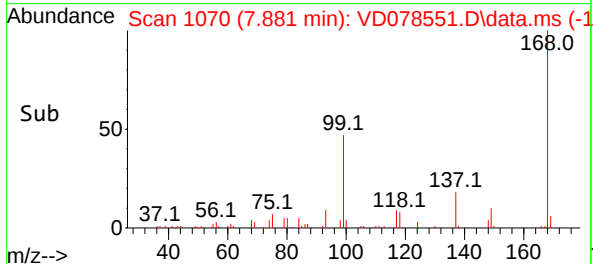
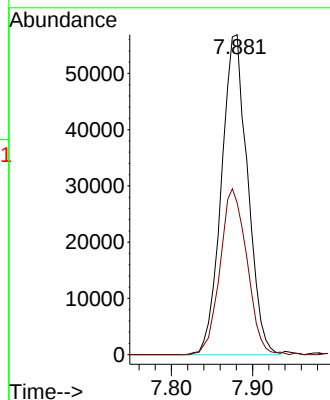
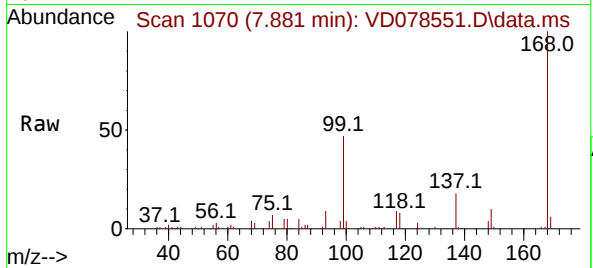




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

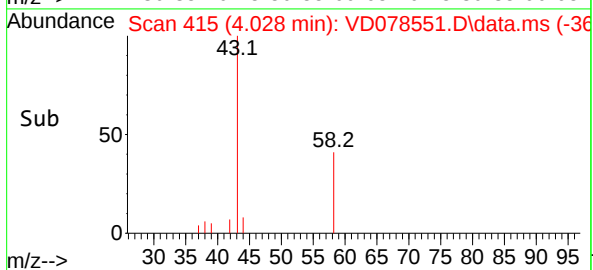
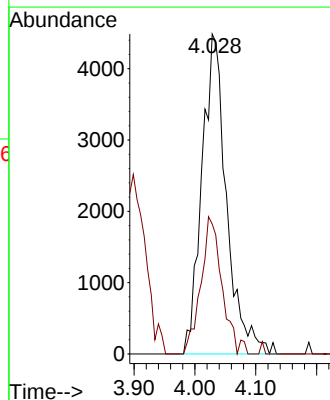
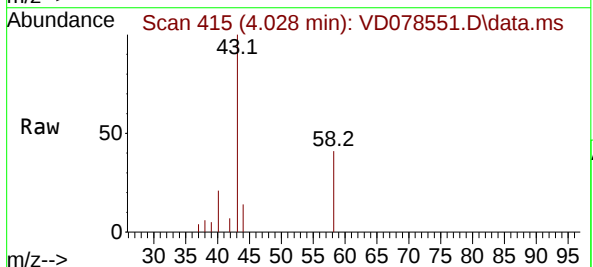
Instrument :
MSVOA_D
ClientSampleId :
1839

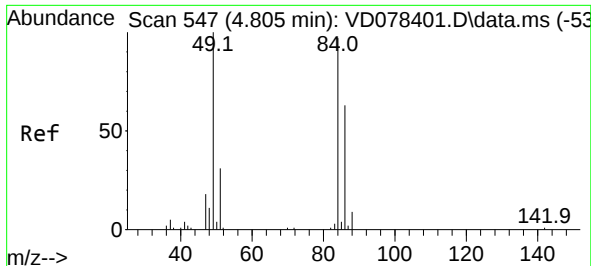
Tgt Ion:168 Resp: 127469
Ion Ratio Lower Upper
168 100
99 47.4 36.7 55.1



#16
Acetone
Concen: 25.872 ug/l
RT: 4.028 min Scan# 415
Delta R.T. -0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 43 Resp: 12627
Ion Ratio Lower Upper
43 100
58 40.6 34.7 52.1

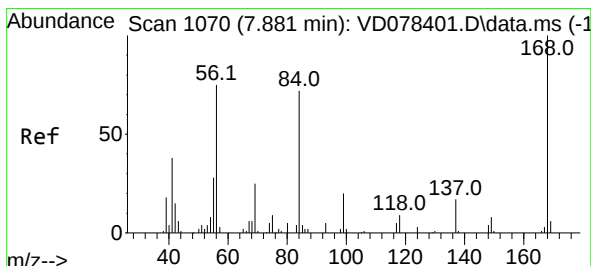
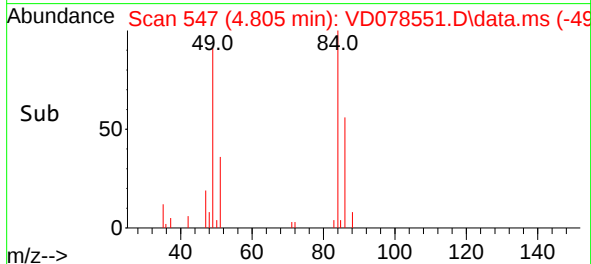
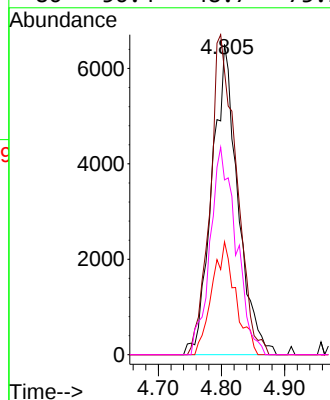
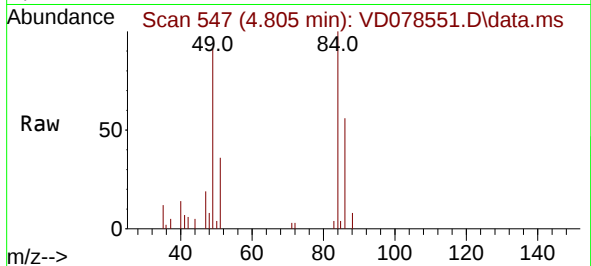




#20
Methylene Chloride
Concen: 9.358 ug/l
RT: 4.805 min Scan# 54
Delta R.T. -0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

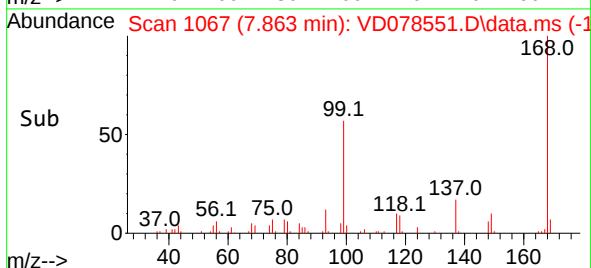
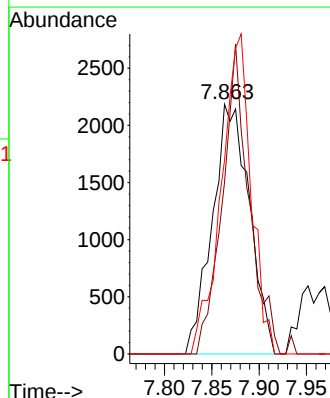
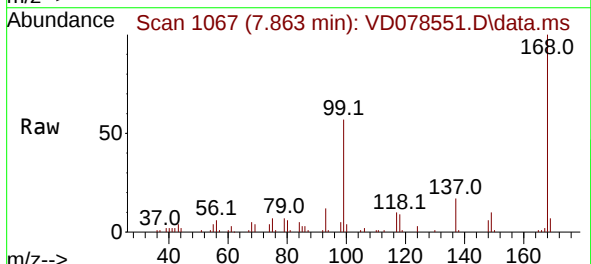
Instrument :
MSVOA_D
ClientSampleId :
1839

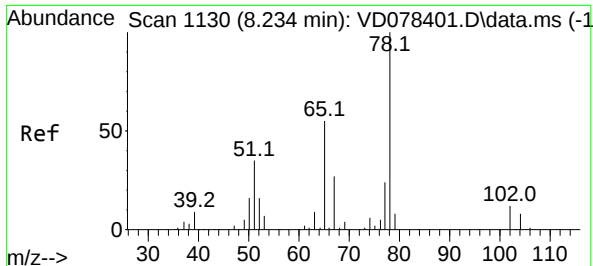
Tgt Ion:	84	Resp:	18531
Ion	Ratio	Lower	Upper
84	100		
49	91.4	71.4	107.2
51	36.4	24.5	36.7
86	56.4	48.7	73.1



#31
Cyclohexane
Concen: 2.561 ug/l
RT: 7.863 min Scan# 1067
Delta R.T. -0.018 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion:	56	Resp:	5972
Ion	Ratio	Lower	Upper
56	100		
69	68.7	28.6	43.0#
84	77.4	84.8	127.2#





#33

1,2-Dichloroethane-d4

Concen: 38.047 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Instrument :

MSVOA_D

ClientSampleId :

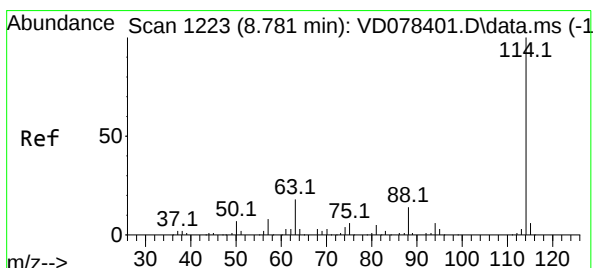
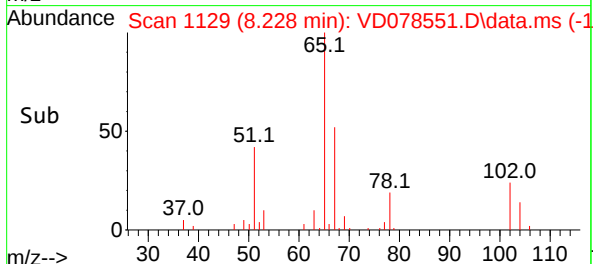
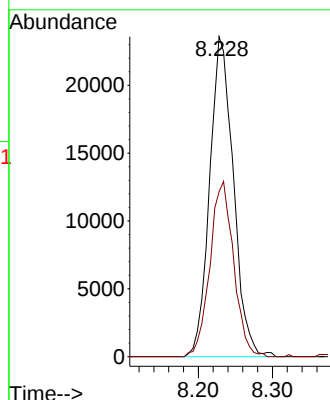
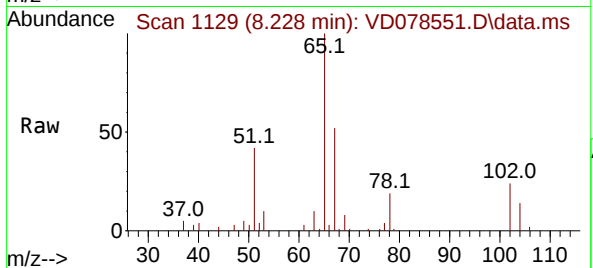
1839

Tgt Ion: 65 Resp: 52439

Ion Ratio Lower Upper

65 100

67 54.7 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.000 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

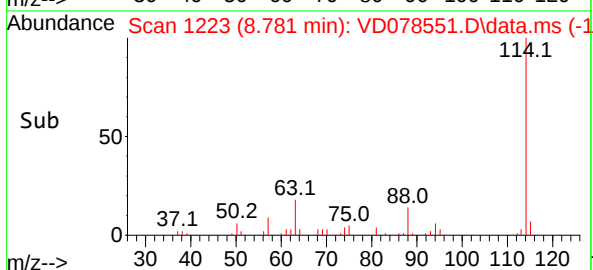
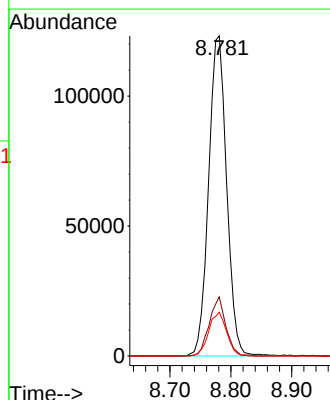
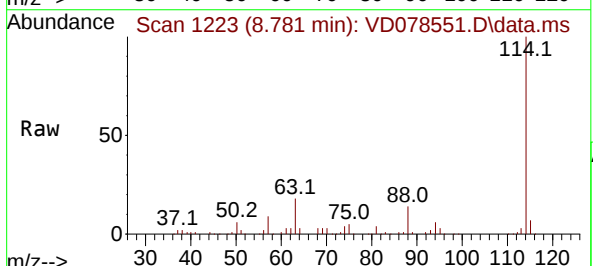
Tgt Ion: 114 Resp: 253009

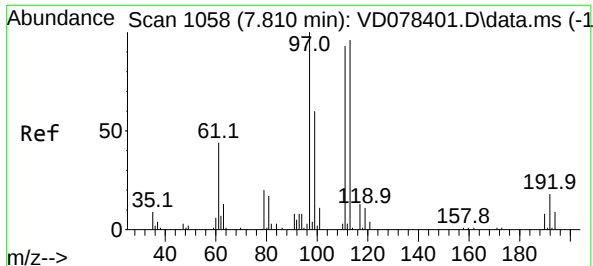
Ion Ratio Lower Upper

114 100

63 18.4 0.0 33.4

88 13.6 0.0 26.2





#35

Dibromofluoromethane

Concen: 45.005 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. -0.006 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Instrument :

MSVOA_D

ClientSampleId :

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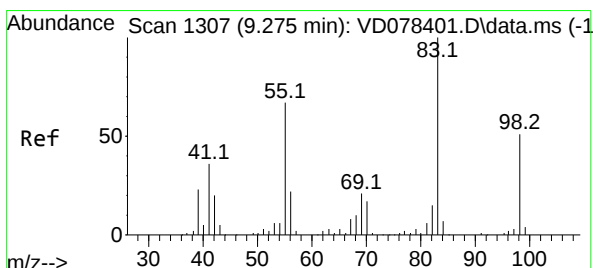
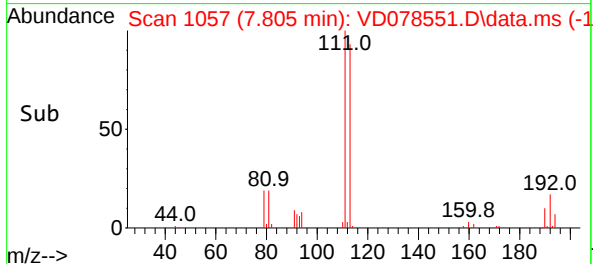
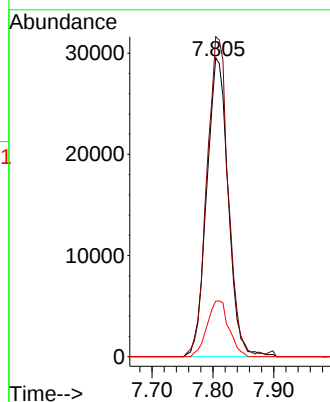
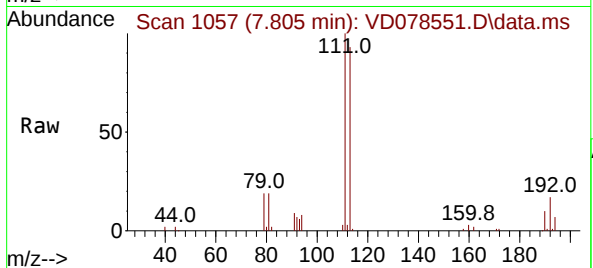
Tgt Ion:113 Resp: 72331

Ion Ratio Lower Upper

113 100

111 105.7 84.7 127.1

192 18.9 16.8 25.2



#39

Methylcyclohexane

Concen: 1.379 ug/l

RT: 9.275 min Scan# 1307

Delta R.T. 0.000 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

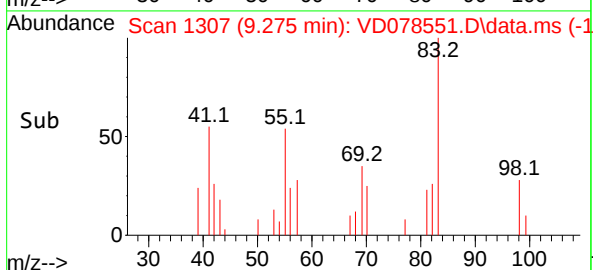
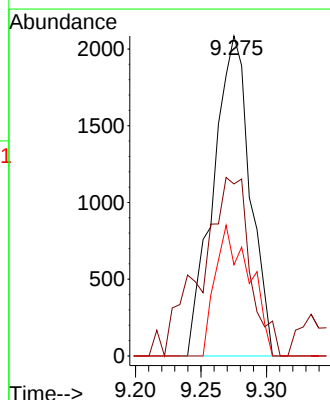
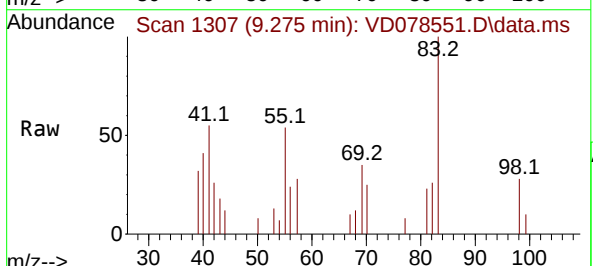
Tgt Ion: 83 Resp: 4086

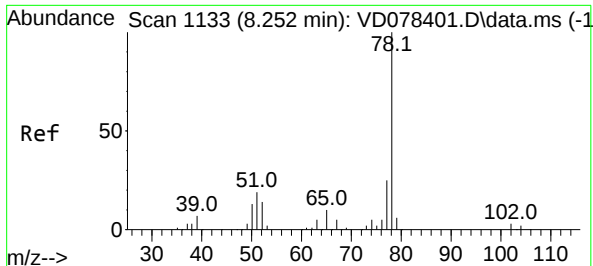
Ion Ratio Lower Upper

83 100

55 53.8 49.4 74.0

98 28.5 38.4 57.6#

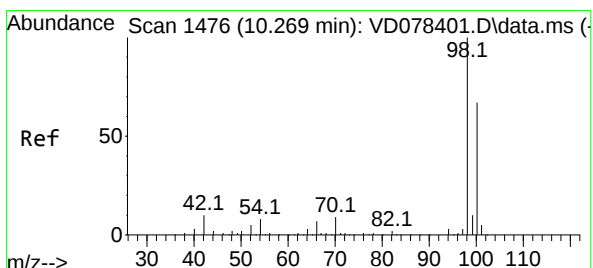
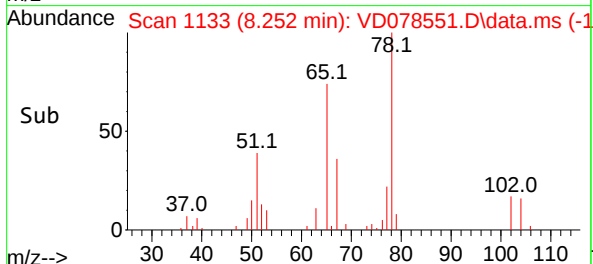
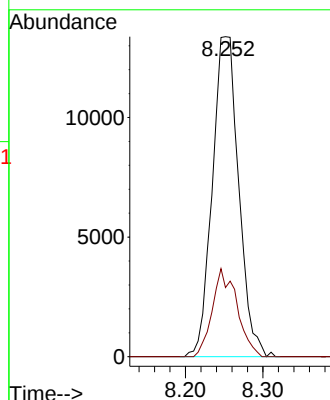
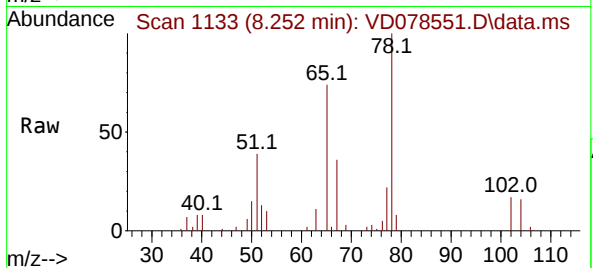




#40
Benzene
Concen: 4.388 ug/l
RT: 8.252 min Scan# 1133
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

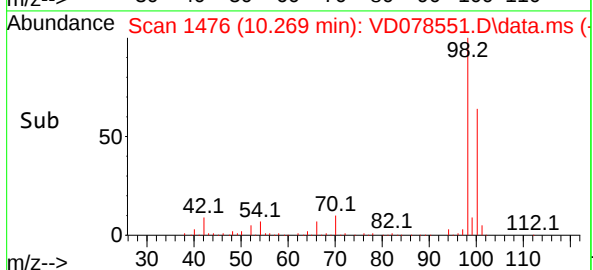
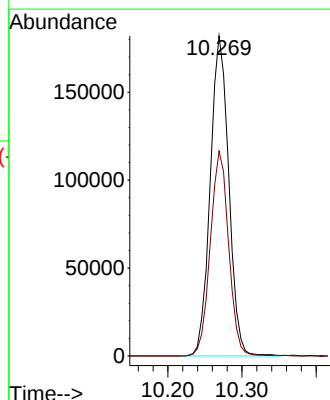
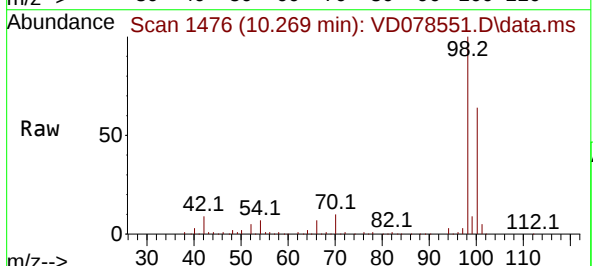
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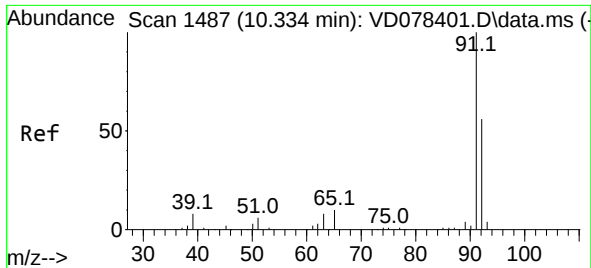
Tgt Ion: 78 Resp: 31667
Ion Ratio Lower Upper
78 100
77 21.6 19.4 29.0



#50
Toluene-d8
Concen: 49.126 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 98 Resp: 315832
Ion Ratio Lower Upper
98 100
100 63.5 50.3 75.5

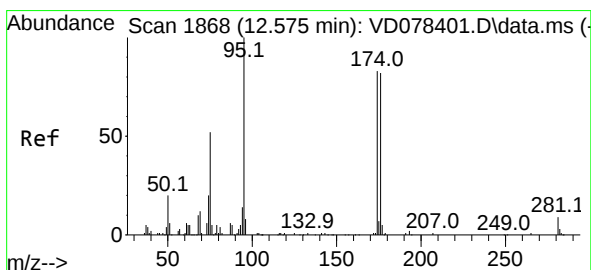
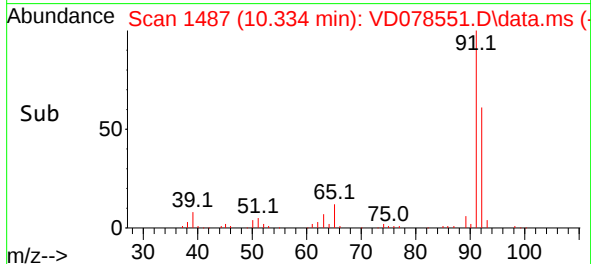
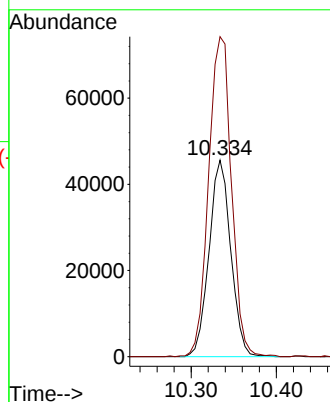
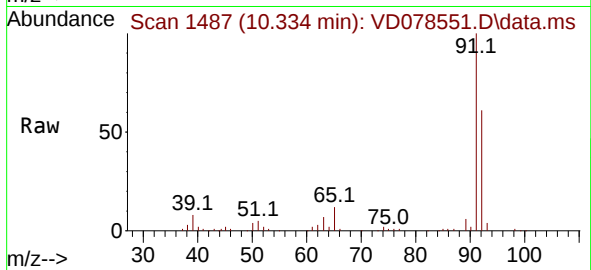




#52
Toluene
Concen: 17.757 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

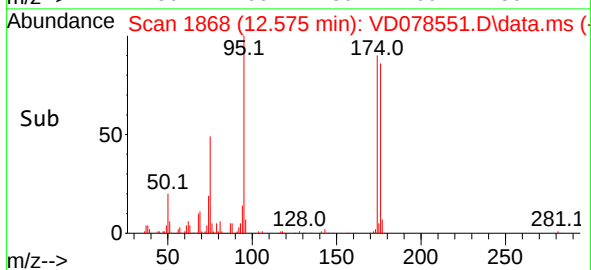
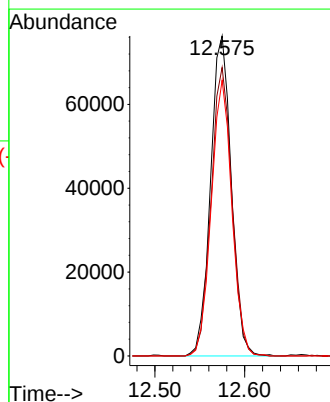
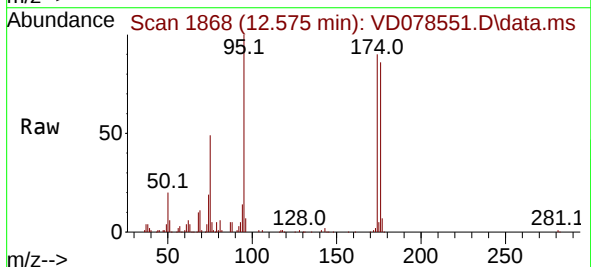
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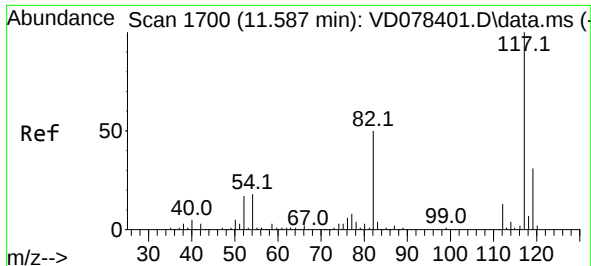
Tgt Ion: 92 Resp: 81034
Ion Ratio Lower Upper
92 100
91 171.2 143.0 214.4



#62
4-Bromofluorobenzene
Concen: 65.398 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 95 Resp: 122352
Ion Ratio Lower Upper
95 100
174 91.2 0.0 201.8
176 85.7 0.0 191.8

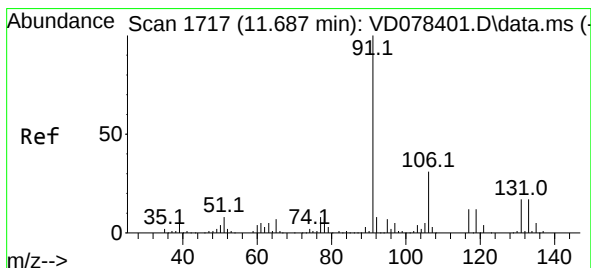
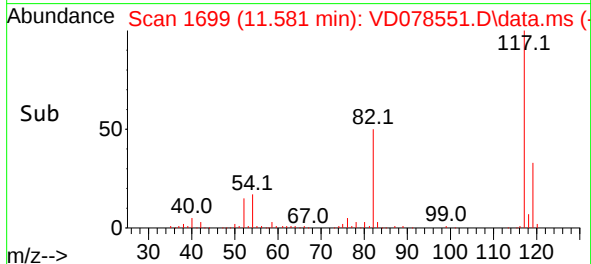
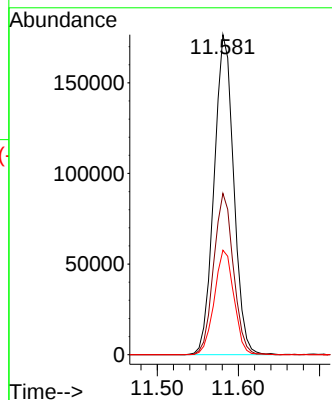
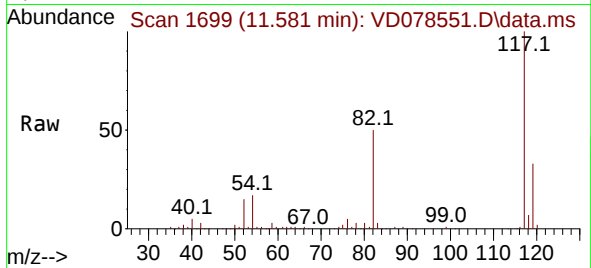




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1170
Delta R.T. -0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

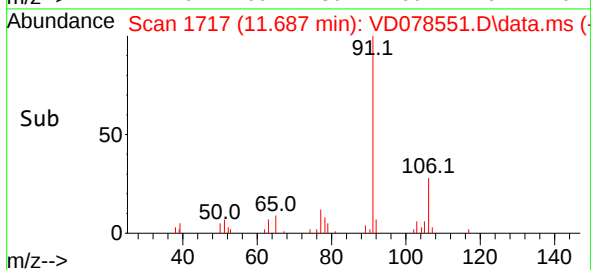
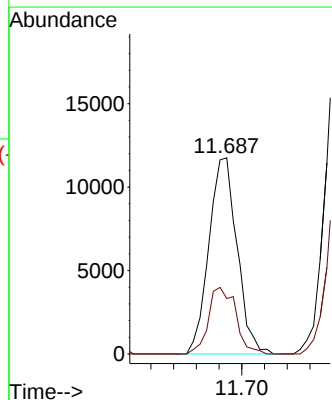
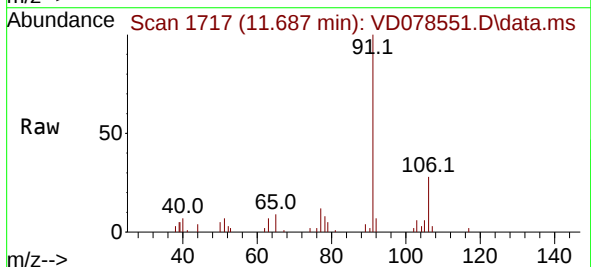
Instrument :
MSVOA_D
ClientSampleId :
1839

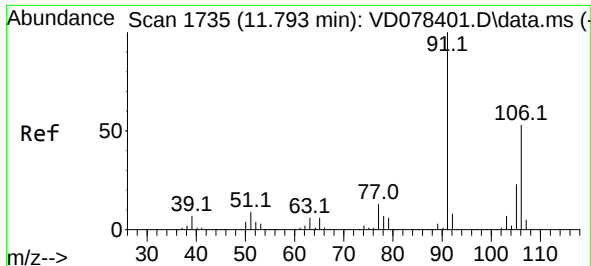
Tgt Ion:117 Resp: 296691
Ion Ratio Lower Upper
117 100
82 50.4 38.3 57.5
119 32.6 25.0 37.4



#67
Ethyl Benzene
Concen: 1.894 ug/l
RT: 11.687 min Scan# 1717
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion: 91 Resp: 20242
Ion Ratio Lower Upper
91 100
106 28.3 26.5 39.7

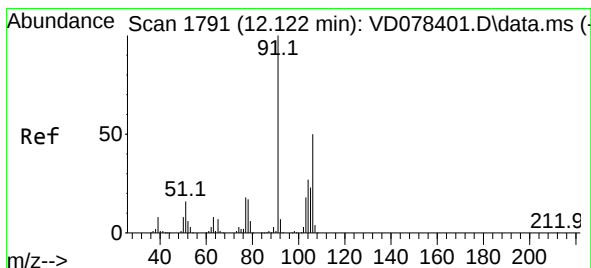
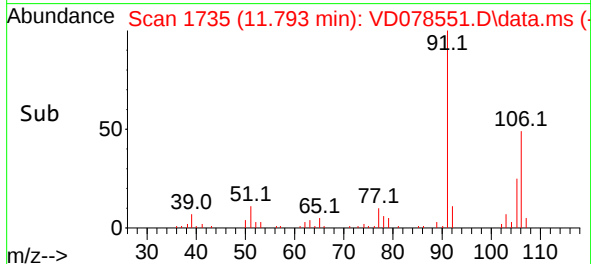
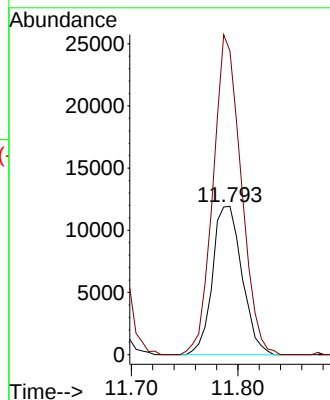
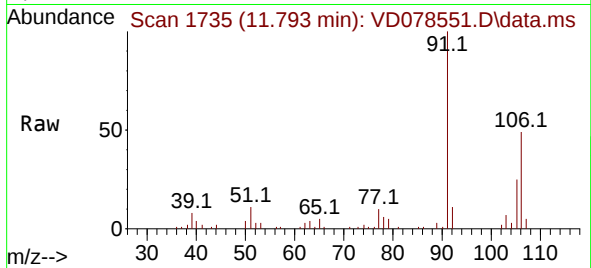




#68
m/p-Xylenes
Concen: 5.495 ug/l
RT: 11.793 min Scan# 1735
Delta R.T. 0.000 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

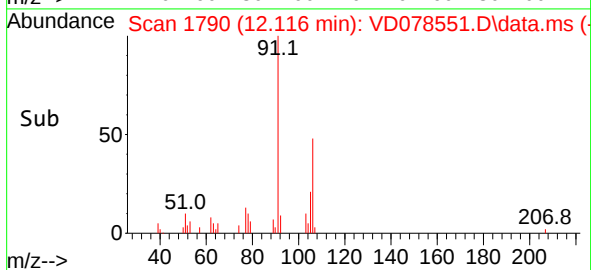
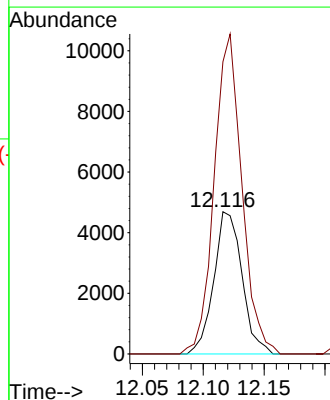
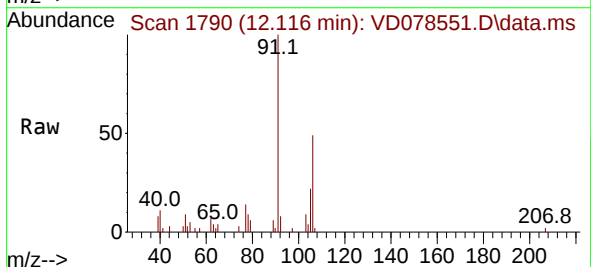
Instrument :
MSVOA_D
ClientSampleId :
1839

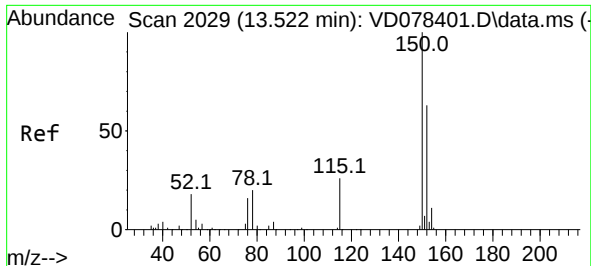
Tgt Ion:106 Resp: 22908
Ion Ratio Lower Upper
106 100
91 205.5 147.0 220.6



#69
o-Xylene
Concen: 1.984 ug/l
RT: 12.116 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VD078551.D
Acq: 26 Feb 2024 13:58

Tgt Ion:106 Resp: 7547
Ion Ratio Lower Upper
106 100
91 220.9 97.9 293.6

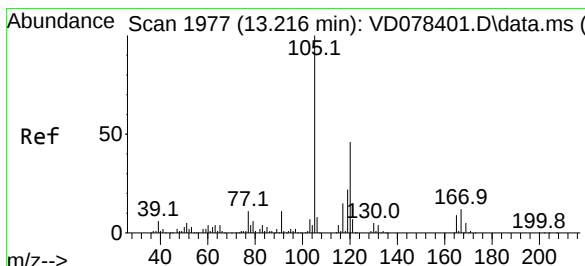
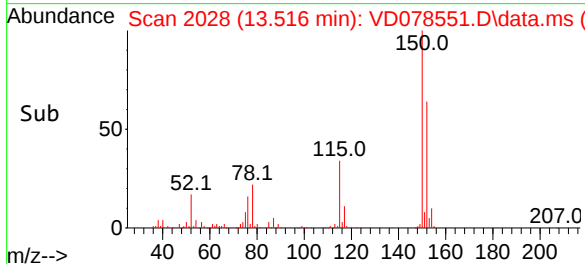
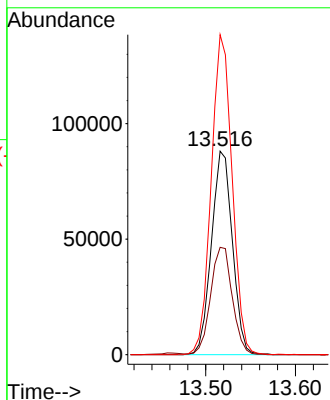
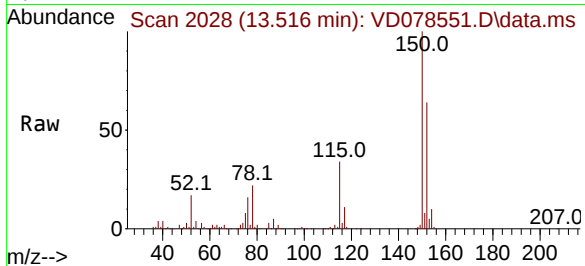




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.516 min Scan# 2029
 Delta R.T. -0.006 min
 Lab File: VD078551.D
 Acq: 26 Feb 2024 13:58

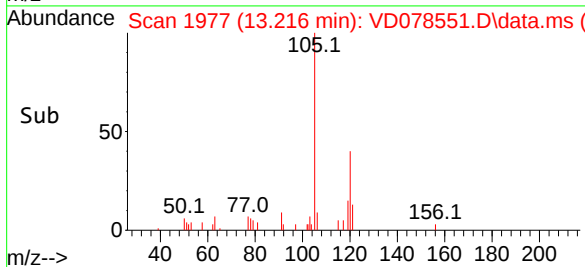
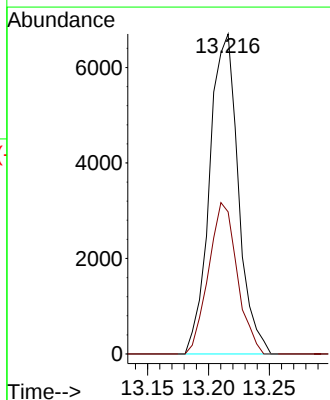
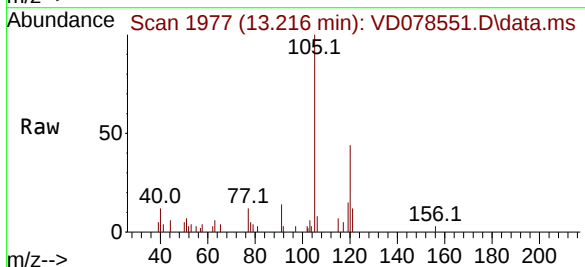
Instrument :
 MSVOA_D
 ClientSampleId :
 1839

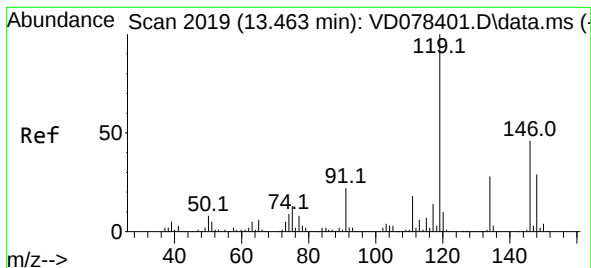
Tgt Ion:152 Resp: 143029
 Ion Ratio Lower Upper
 152 100
 115 54.4 27.1 81.3
 150 156.5 0.0 353.6



#84
 1,2,4-Trimethylbenzene
 Concen: 1.357 ug/l
 RT: 13.216 min Scan# 1977
 Delta R.T. 0.000 min
 Lab File: VD078551.D
 Acq: 26 Feb 2024 13:58

Tgt Ion:105 Resp: 10985
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.3 72.9





#86

p-Isopropyltoluene

Concen: 1.478 ug/l

RT: 13.457 min Scan# 2019

Delta R.T. -0.006 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Instrument :

MSVOA_D

ClientSampleId :

1839

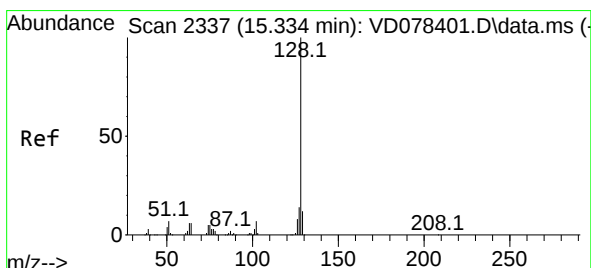
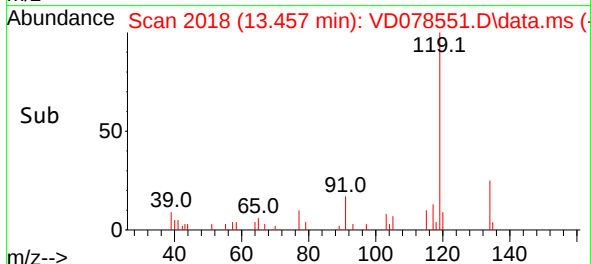
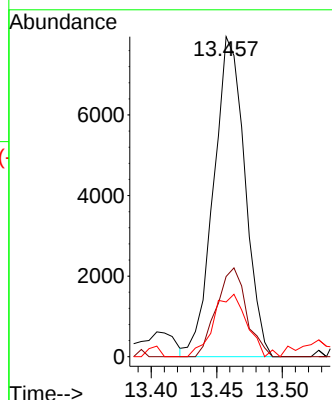
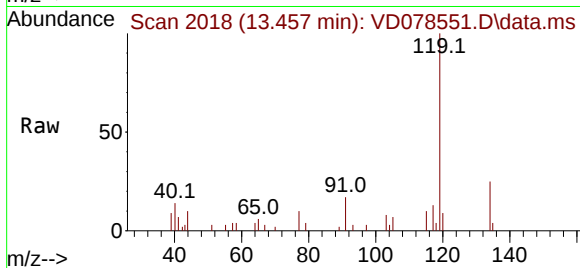
Tgt Ion:119 Resp: 13133

Ion Ratio Lower Upper

119 100

134 26.5 14.2 42.6

91 21.1 10.5 31.5



#95

Naphthalene

Concen: 2.639 ug/l

RT: 15.328 min Scan# 2336

Delta R.T. -0.006 min

Lab File: VD078551.D

Acq: 26 Feb 2024 13:58

Tgt Ion:128 Resp: 11636

Ion Ratio Lower Upper

128 100

127 9.1 10.5 15.7#

129 9.6 8.7 13.1

