

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082423\
 Data File : VY015312.D
 Acq On : 24 Aug 2023 15:10
 Operator : SY/MD
 Sample : 04014-01
 Misc : 10.37g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 25 03:20:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

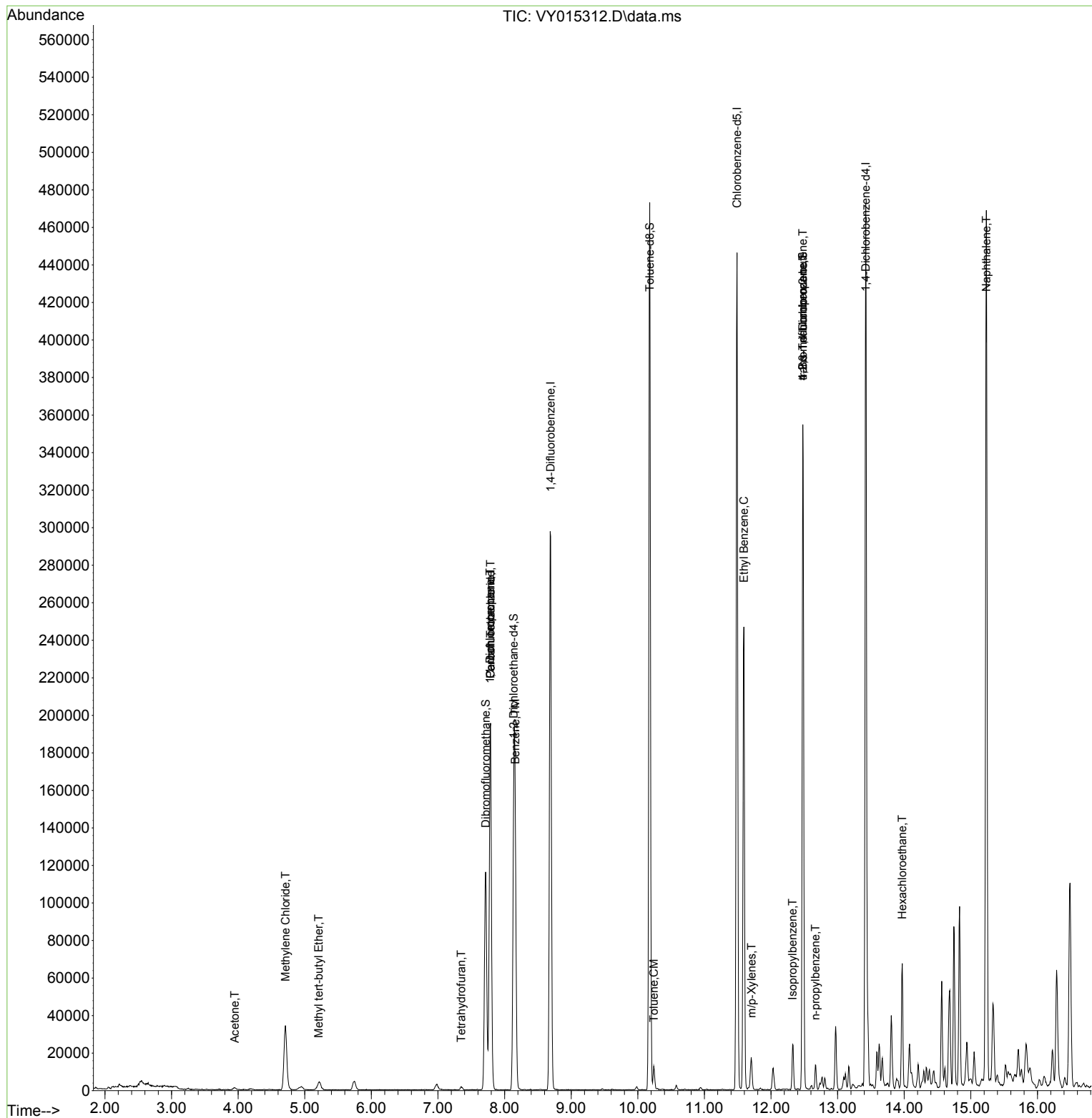
Internal Standards						
1) Pentafluorobenzene	7.789	168	150968	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	260429	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	237577	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	117202	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	100146	55.261	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	110.520%
35) Dibromofluoromethane	7.716	113	81997	48.941	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.880%
50) Toluene-d8	10.179	98	307559	49.313	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.620%
62) 4-Bromofluorobenzene	12.477	95	106425	46.718	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	93.440%
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	211	Below Cal	#	85
5) Bromomethane	2.656	94	488	Below Cal		99
11) Tert butyl alcohol	4.948	59	3142	Below Cal	#	94
13) Acrolein	3.729	56	54	Below Cal	#	29
16) Acetone	3.948	43	2416	4.081	ug/l	94
19) Methyl tert-butyl Ether	5.210	73	6827	1.528	ug/l #	89
20) Methylene Chloride	4.710	84	24941	14.504	ug/l	92
29) Tetrahydrofuran	7.350	42	1147	2.288	ug/l	96
31) Cyclohexane	7.783	56	3376	Below Cal	#	6
36) 1,1-Dichloropropene	7.783	75	12027	6.489	ug/l #	50
38) Carbon Tetrachloride	7.789	117	15121	6.893	ug/l #	17
40) Benzene	8.161	78	113487	20.251	ug/l	100
52) Toluene	10.240	92	4976	1.347	ug/l	94
67) Ethyl Benzene	11.593	91	167606	22.099	ug/l	97
68) m/p-Xylenes	11.709	106	4969	1.725	ug/l	95
73) Isopropylbenzene	12.325	105	15351	2.037	ug/l	98
76) 1,2,3-Trichloropropane	12.477	75	57985	40.722	ug/l #	100
78) n-propylbenzene	12.666	91	10352	1.157	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.477	75	57985	89.445	ug/l #	10
90) Hexachloroethane	13.971	117	3659	2.642	ug/l #	8
95) Naphthalene	15.233	128	371517	68.248	ug/l	99

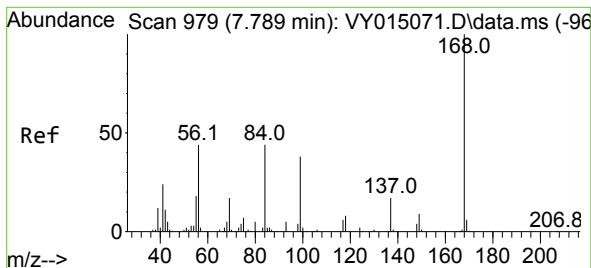
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.789 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

Instrument :

MSVOA_Y

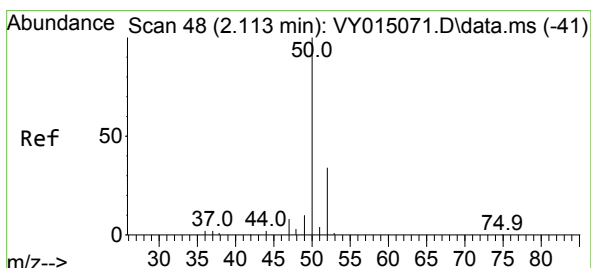
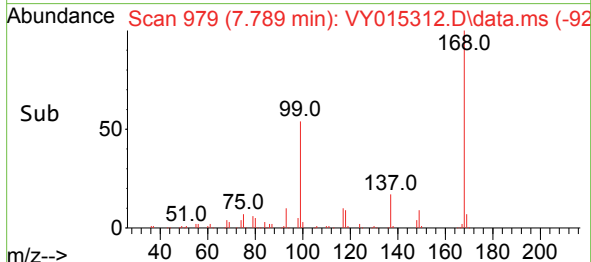
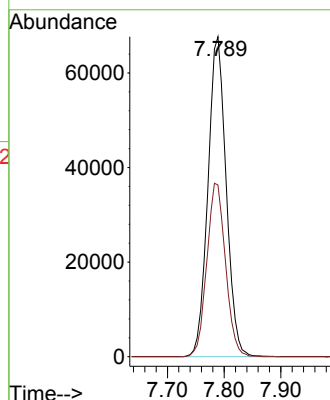
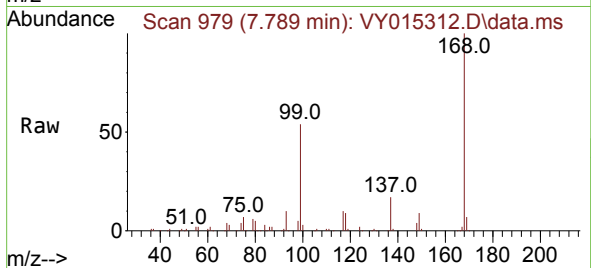
ClientSampleId :

Tgt Ion:168 Resp: 150968

Ion Ratio Lower Upper

168 100

99 53.7 43.4 65.0



#3

Chloromethane

Concen: Below Cal

RT: 2.119 min Scan# 49

Delta R.T. 0.012 min

Lab File: VY015312.D

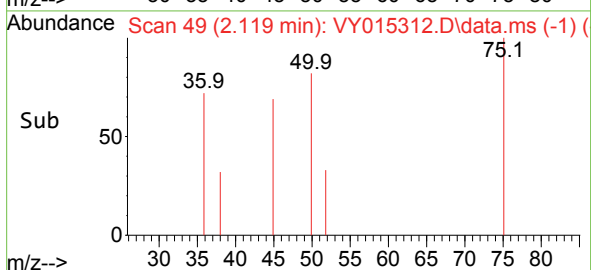
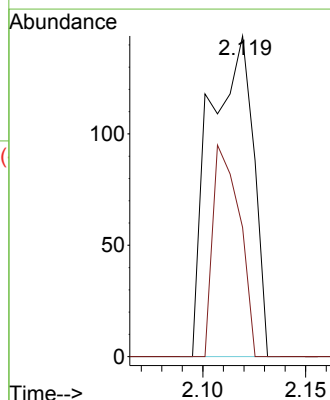
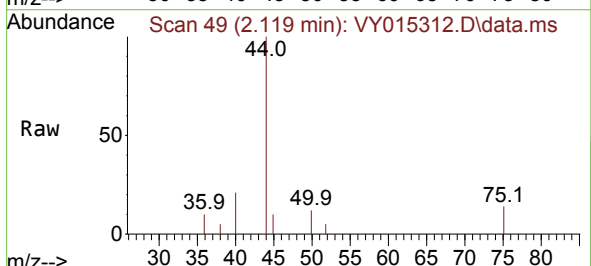
Acq: 24 Aug 2023 15:10

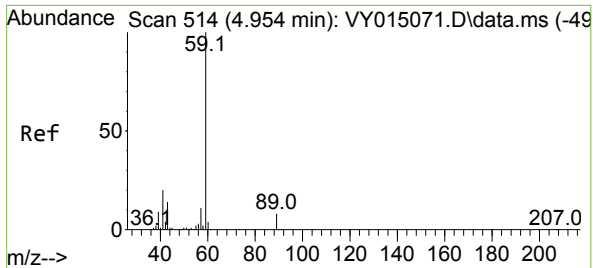
Tgt Ion: 50 Resp: 211

Ion Ratio Lower Upper

50 100

52 40.3 25.4 38.2#

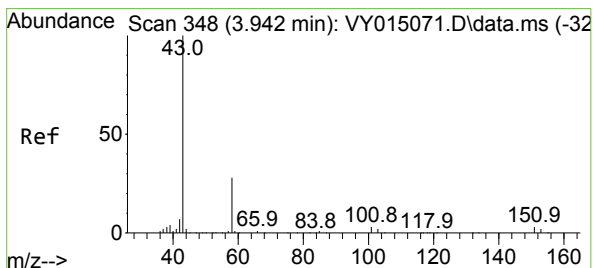
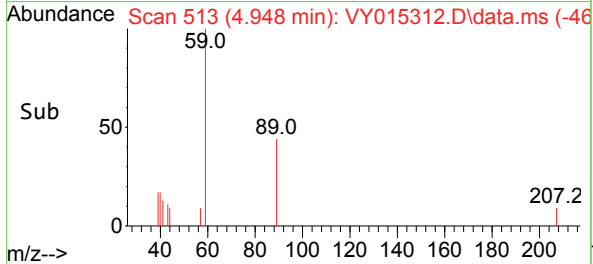
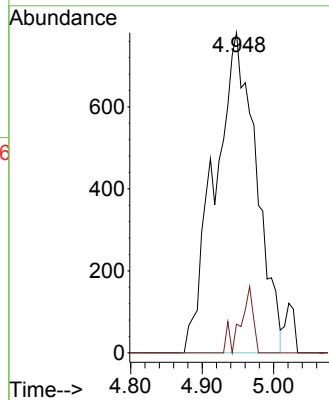
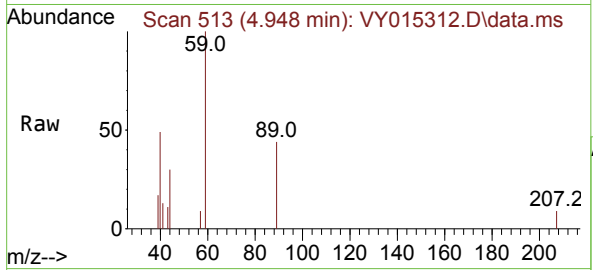




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.948 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

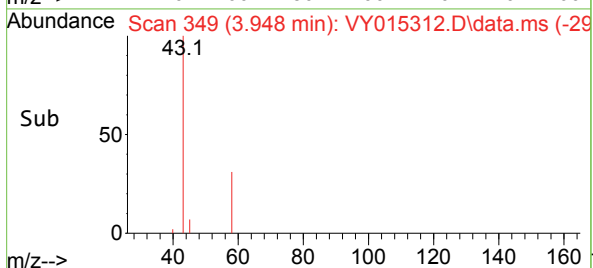
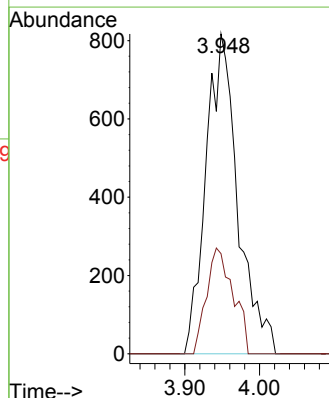
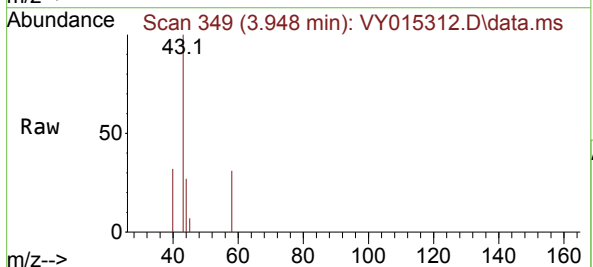
Instrument :
MSVOA_Y
ClientSampleId :

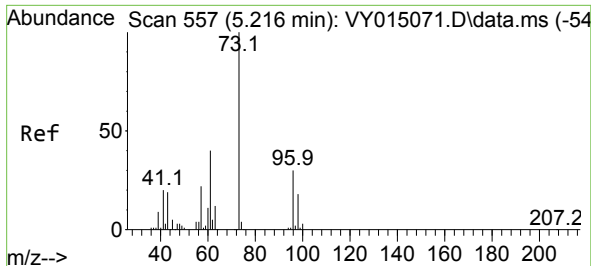
Tgt Ion: 59 Resp: 3142
Ion Ratio Lower Upper
59 100
57 5.6 3.0 4.4#



#16
Acetone
Concen: 4.081 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

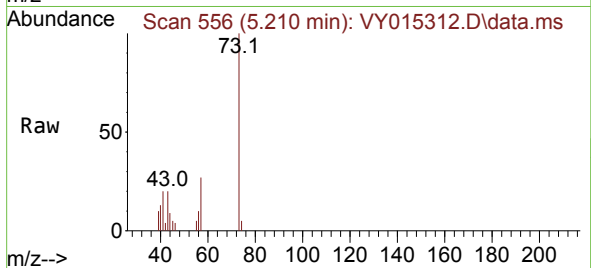
Tgt Ion: 43 Resp: 2416
Ion Ratio Lower Upper
43 100
58 31.3 22.7 34.1



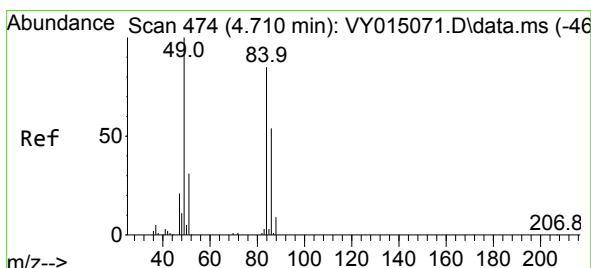
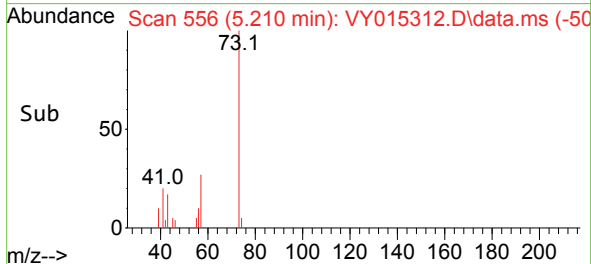
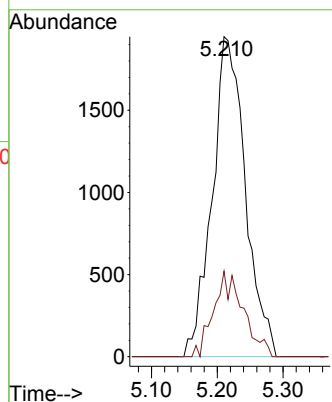


#19
Methyl tert-butyl Ether
Concen: 1.528 ug/l
RT: 5.210 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

Instrument :
MSVOA_Y
ClientSampleId :

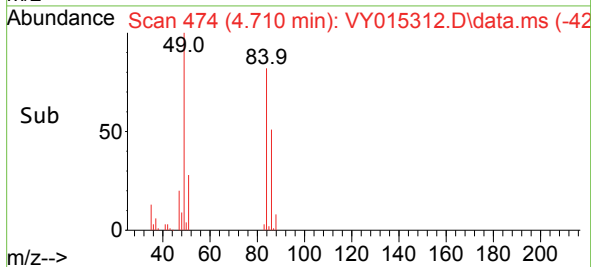
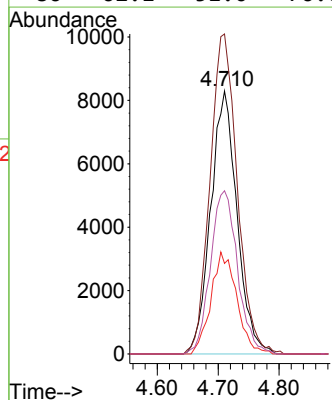
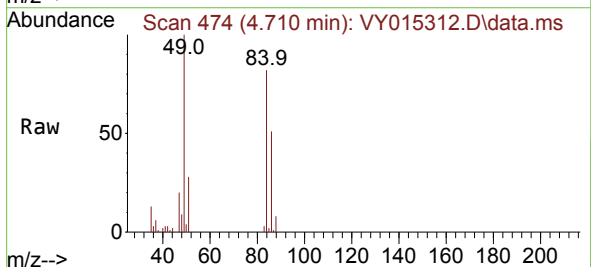


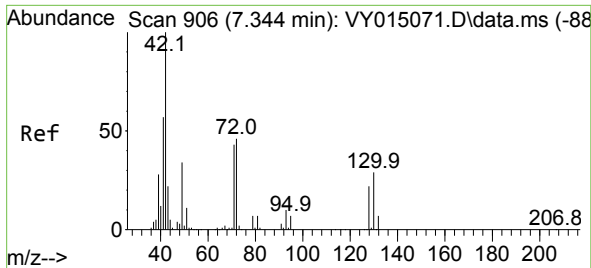
Tgt Ion: 73 Resp: 6827
Ion Ratio Lower Upper
73 100
57 26.7 17.3 25.9#



#20
Methylene Chloride
Concen: 14.504 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

Tgt Ion: 84 Resp: 24941
Ion Ratio Lower Upper
84 100
49 121.7 106.9 160.3
51 34.4 33.2 49.8
86 62.1 51.0 76.6





#29

Tetrahydrofuran

Concen: 2.288 ug/l

RT: 7.350 min Scan# 906

Delta R.T. 0.006 min

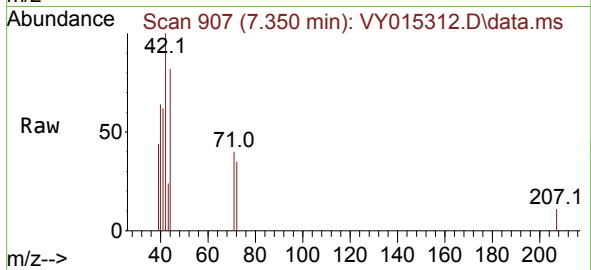
Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

Instrument :

MSVOA_Y

ClientSampleId :



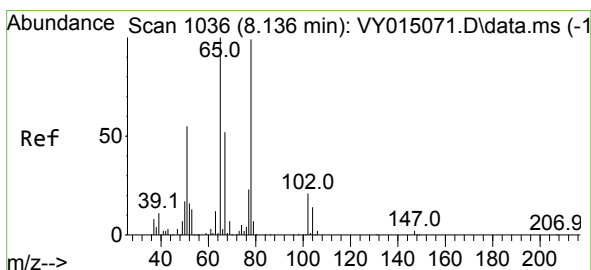
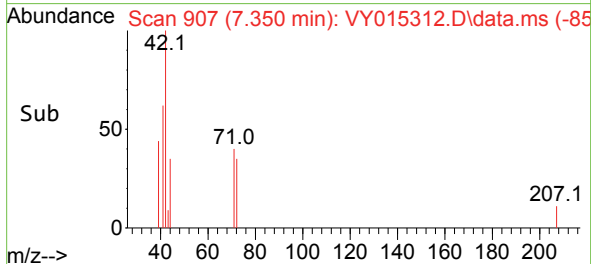
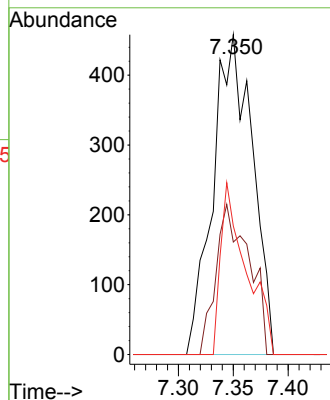
Tgt Ion: 42 Resp: 1147

Ion Ratio Lower Upper

42 100

72 39.5 32.8 49.2

71 34.9 31.0 46.4



#33

1,2-Dichloroethane-d4

Concen: 55.261 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015312.D

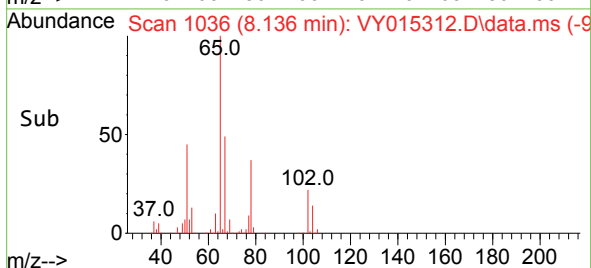
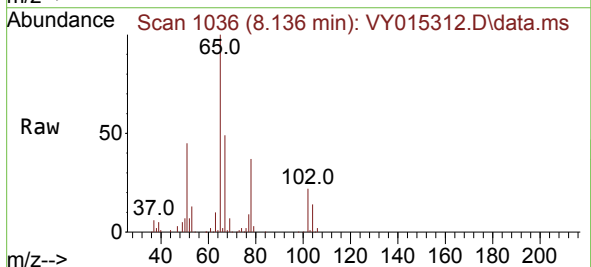
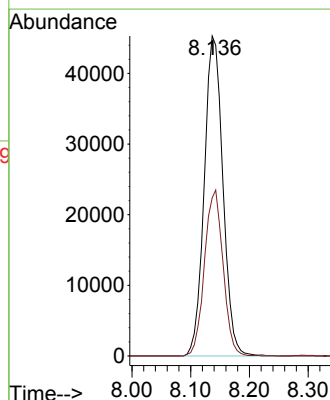
Acq: 24 Aug 2023 15:10

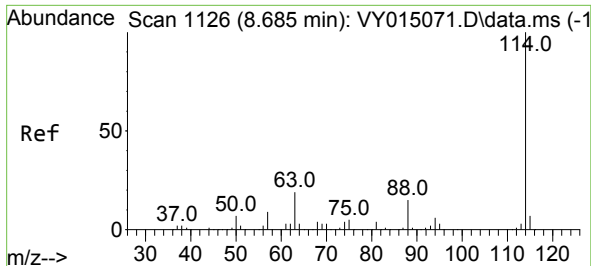
Tgt Ion: 65 Resp: 100146

Ion Ratio Lower Upper

65 100

67 51.5 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

Instrument :

MSVOA_Y

ClientSampleId :

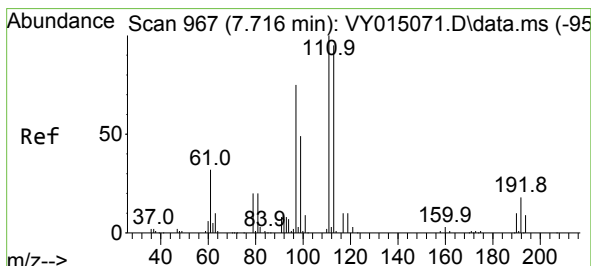
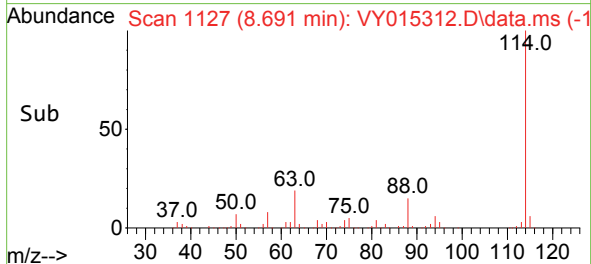
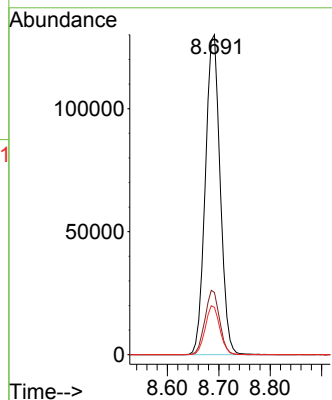
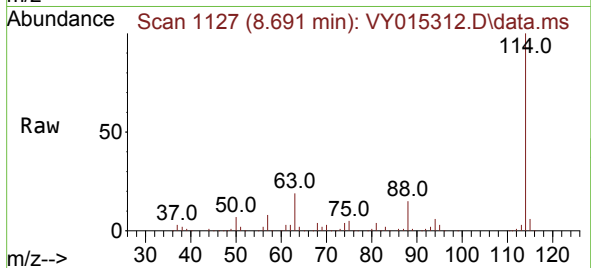
Tgt Ion:114 Resp: 260429

Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.4

88 14.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.941 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

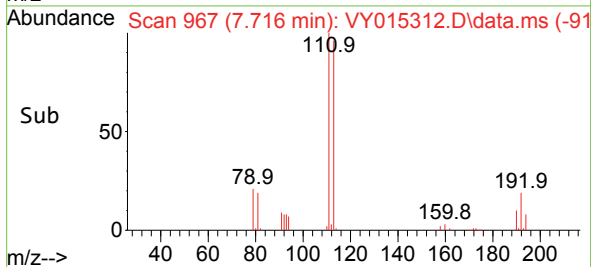
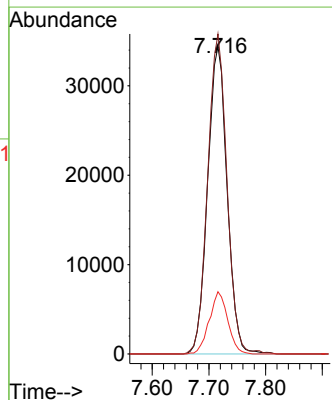
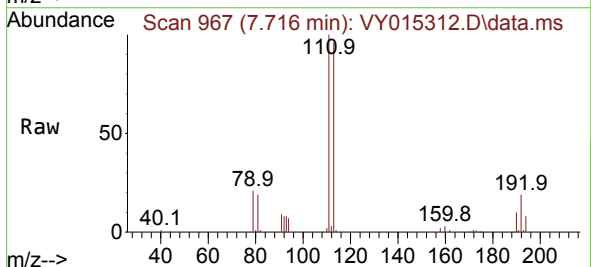
Tgt Ion:113 Resp: 81997

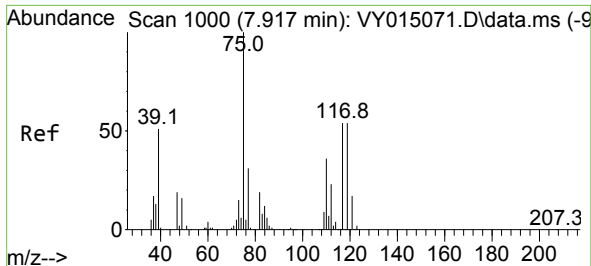
Ion Ratio Lower Upper

113 100

111 102.5 81.3 121.9

192 19.2 16.9 25.3





#36

1,1-Dichloropropene

Concen: 6.489 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.128 min

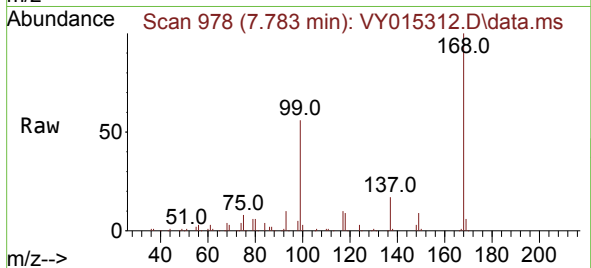
Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

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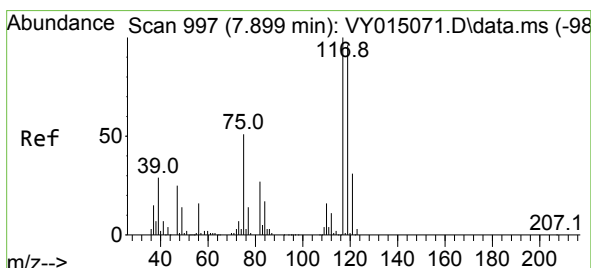
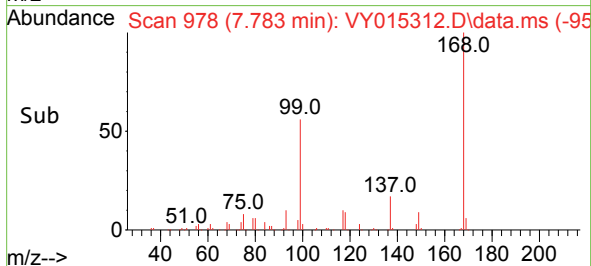
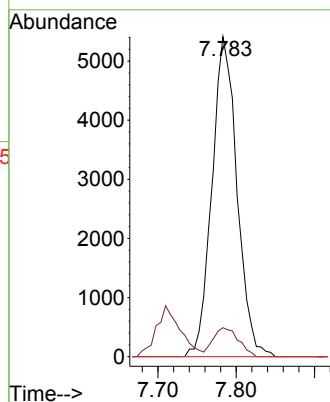
Tgt Ion: 75 Resp: 12027

Ion Ratio Lower Upper

75 100

110 9.2 17.8 53.5#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.893 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

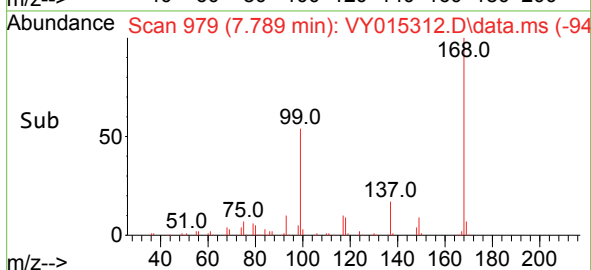
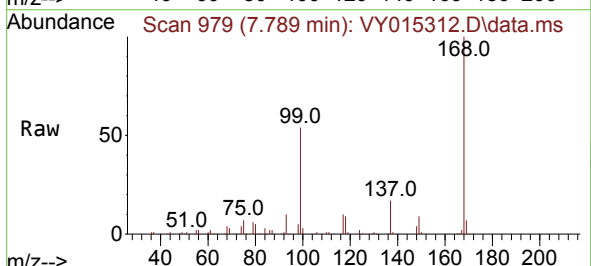
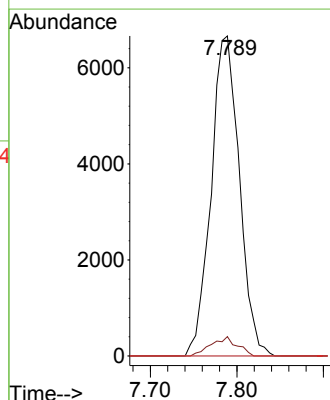
Tgt Ion: 117 Resp: 15121

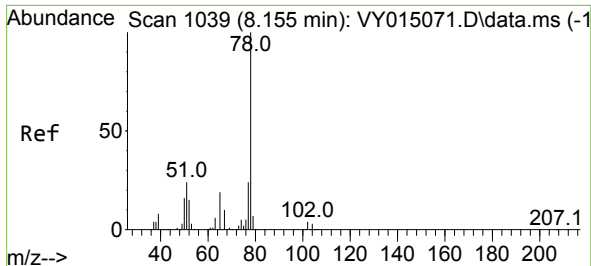
Ion Ratio Lower Upper

117 100

119 6.0 76.4 114.6#

121 0.0 25.8 38.6#

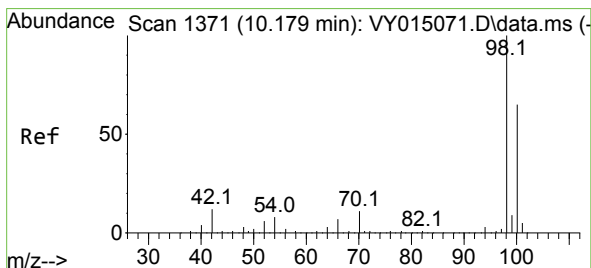
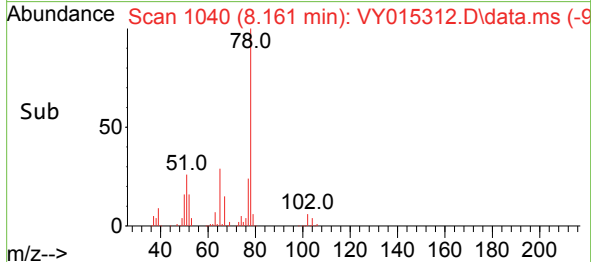
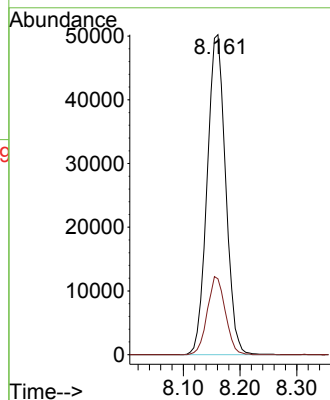
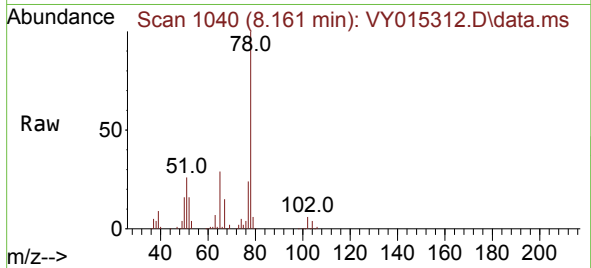




#40
Benzene
Concen: 20.251 ug/l
RT: 8.161 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

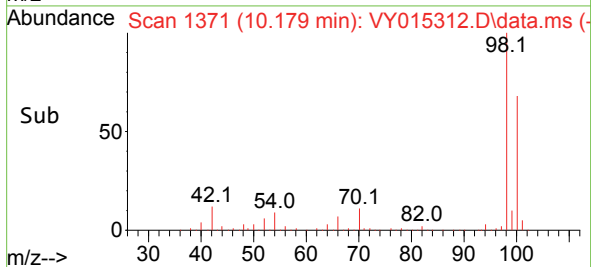
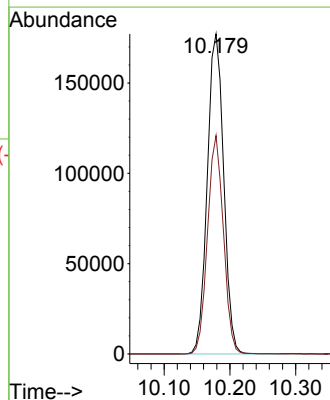
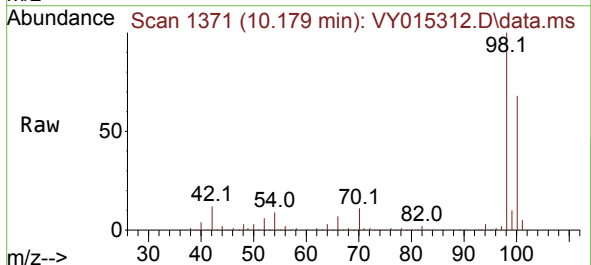
Instrument :
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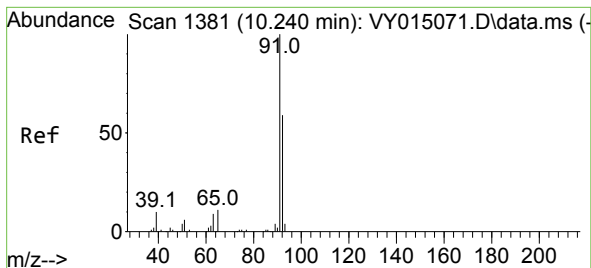
Tgt Ion: 78 Resp: 113487
Ion Ratio Lower Upper
78 100
77 23.7 19.0 28.6



#50
Toluene-d8
Concen: 49.313 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

Tgt Ion: 98 Resp: 307559
Ion Ratio Lower Upper
98 100
100 66.1 50.1 75.1





#52

Toluene

Concen: 1.347 ug/l

RT: 10.240 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

Instrument :

MSVOA_Y

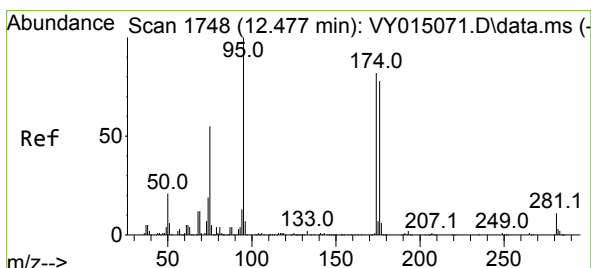
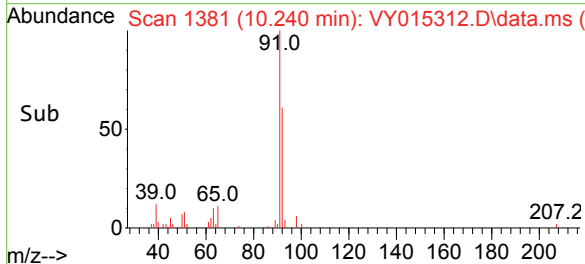
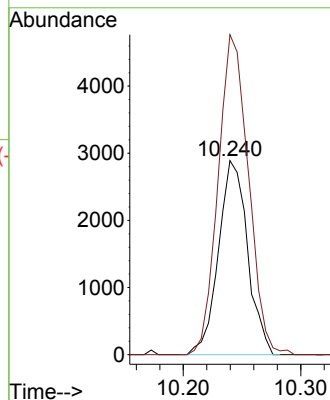
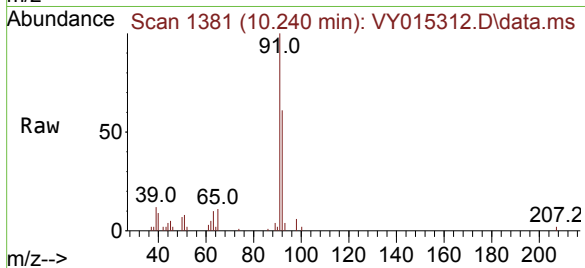
ClientSampleId :

Tgt Ion: 92 Resp: 4976

Ion Ratio Lower Upper

92 100

91 171.7 143.8 215.6



#62

4-Bromofluorobenzene

Concen: 46.718 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

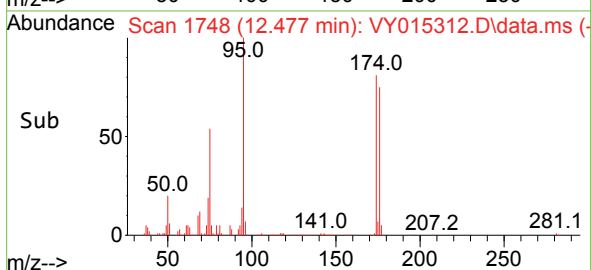
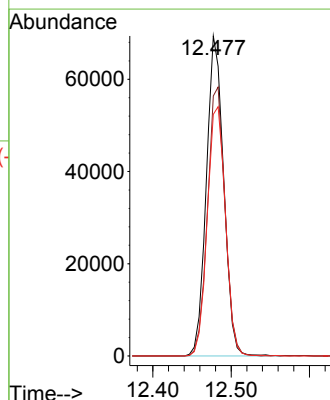
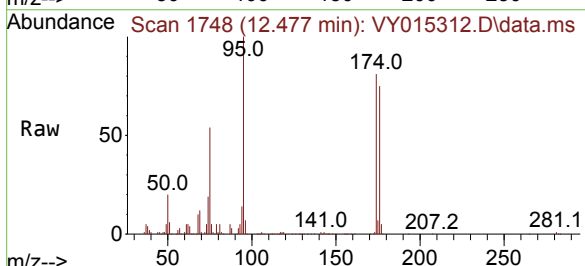
Tgt Ion: 95 Resp: 106425

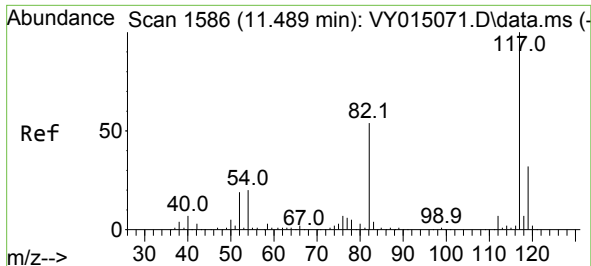
Ion Ratio Lower Upper

95 100

174 85.1 0.0 178.2

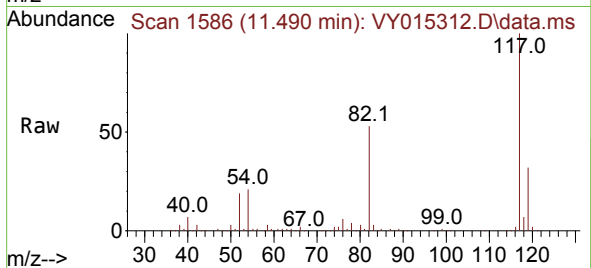
176 81.6 0.0 173.8



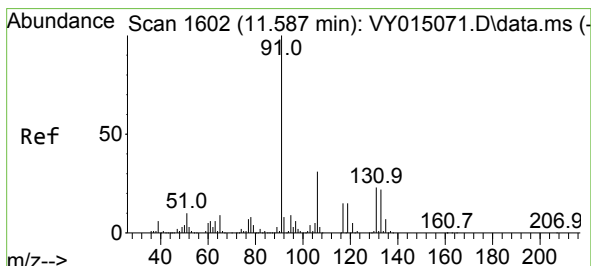
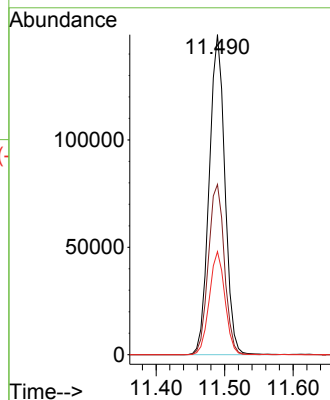
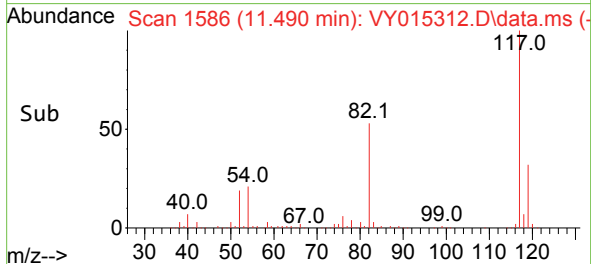


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

Instrument :
MSVOA_Y
ClientSampleId :

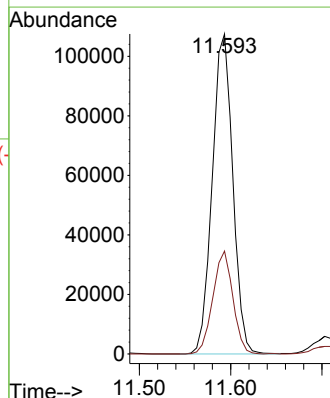
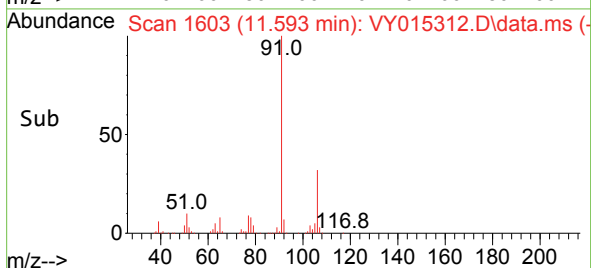
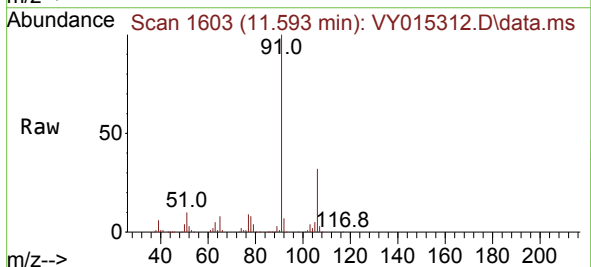


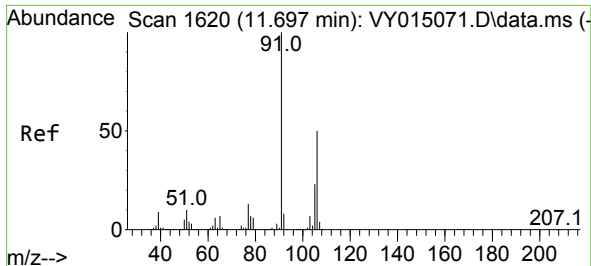
Tgt Ion:117 Resp: 237577
Ion Ratio Lower Upper
117 100
82 53.2 43.4 65.0
119 32.2 26.3 39.5



#67
Ethyl Benzene
Concen: 22.099 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.006 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

Tgt Ion: 91 Resp: 167606
Ion Ratio Lower Upper
91 100
106 32.2 24.6 36.8

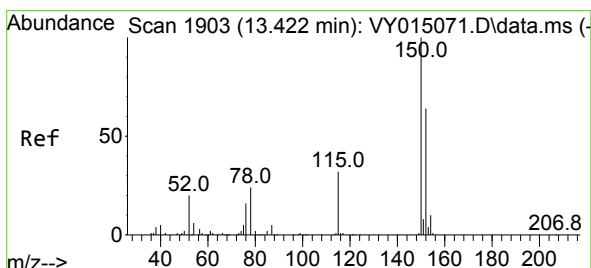
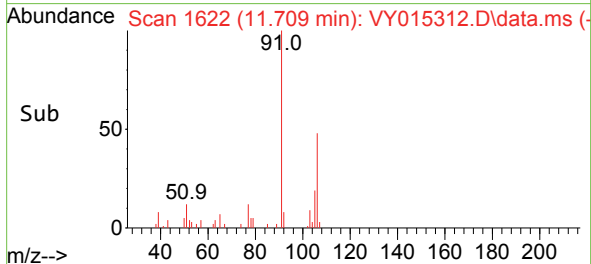
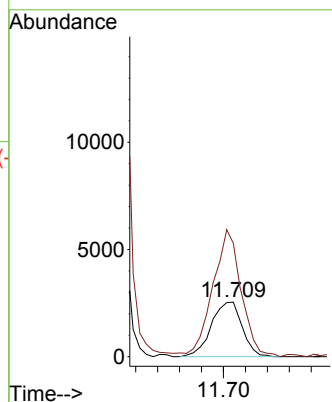
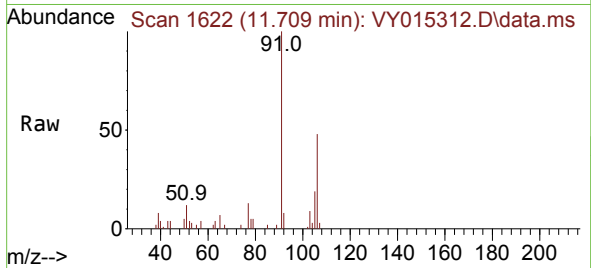




#68
m/p-Xylenes
Concen: 1.725 ug/l
RT: 11.709 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

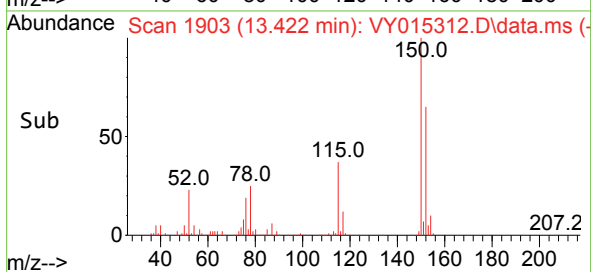
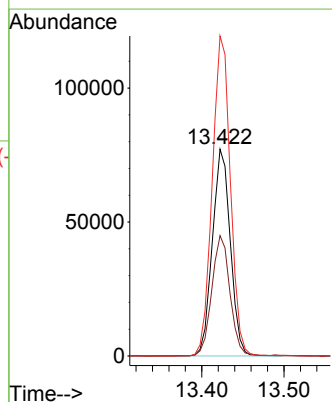
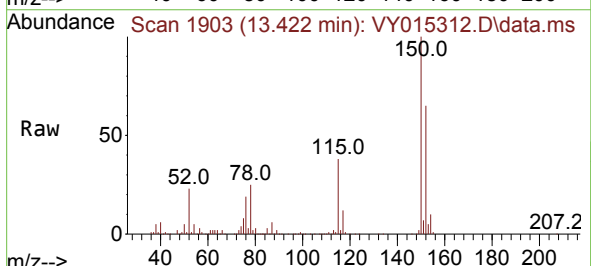
Instrument :
MSVOA_Y
ClientSampleId :

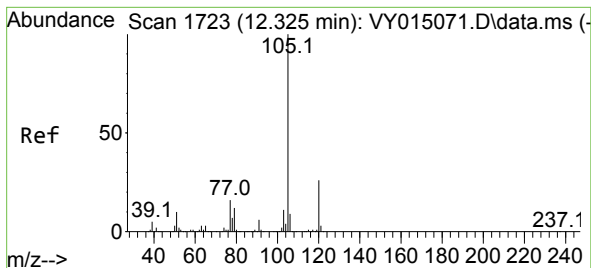
Tgt Ion:106 Resp: 4969
Ion Ratio Lower Upper
106 100
91 215.7 166.1 249.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY015312.D
Acq: 24 Aug 2023 15:10

Tgt Ion:152 Resp: 117202
Ion Ratio Lower Upper
152 100
115 59.1 28.8 86.5
150 156.1 0.0 348.8





#73

Isopropylbenzene

Concen: 2.037 ug/l

RT: 12.325 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

Instrument :

MSVOA_Y

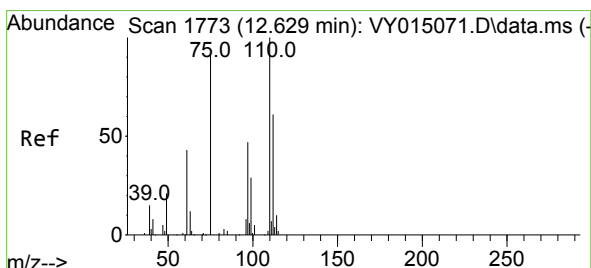
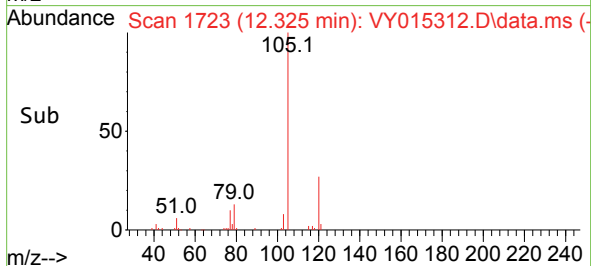
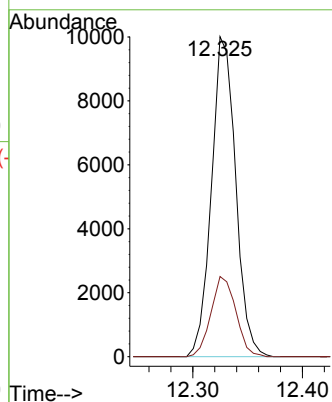
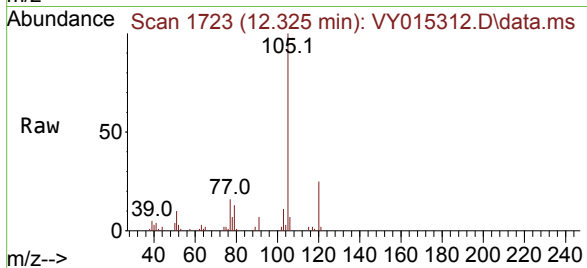
ClientSampleId :

Tgt Ion:105 Resp: 15351

Ion Ratio Lower Upper

105 100

120 25.7 13.3 39.9



#76

1,2,3-Trichloropropane

Concen: 40.722 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015312.D

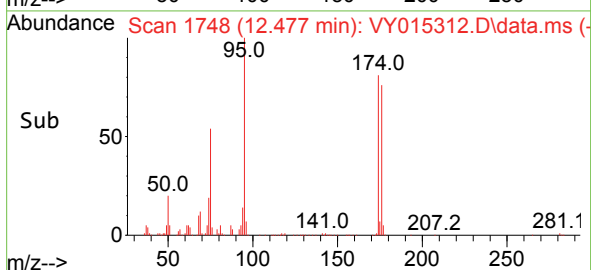
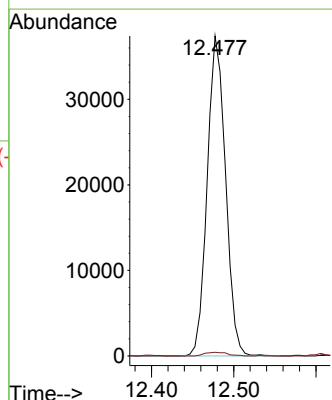
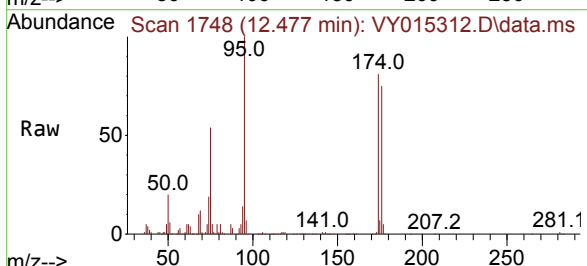
Acq: 24 Aug 2023 15:10

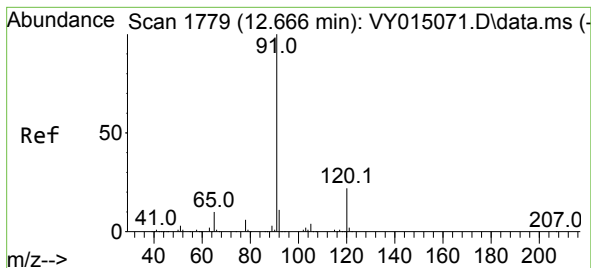
Tgt Ion: 75 Resp: 57985

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#78

n-propylbenzene

Concen: 1.157 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

Instrument :

MSVOA_Y

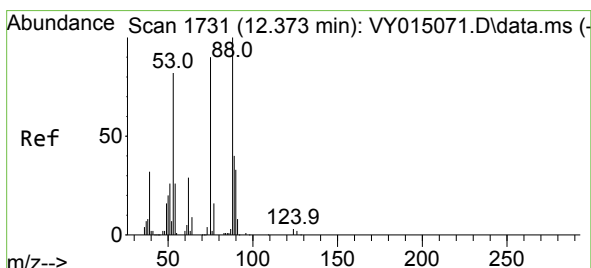
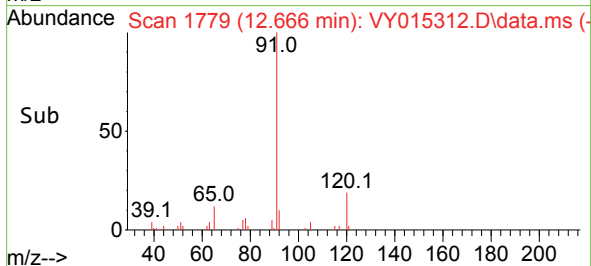
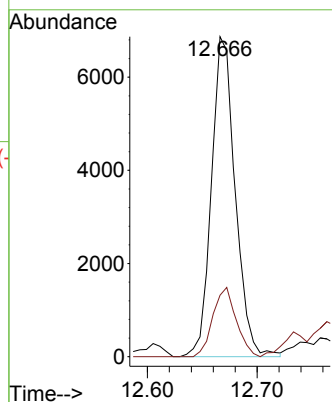
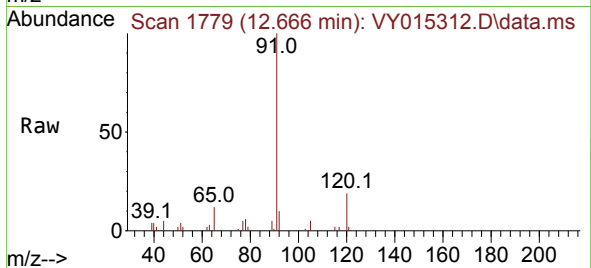
ClientSampleId :

Tgt Ion: 91 Resp: 10352

Ion Ratio Lower Upper

91 100

120 21.3 11.5 34.4



#81

trans-1,4-Dichloro-2-butene

Concen: 89.445 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.104 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

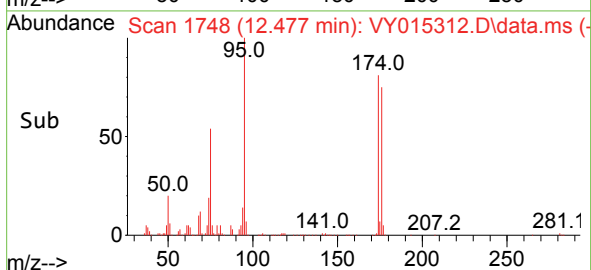
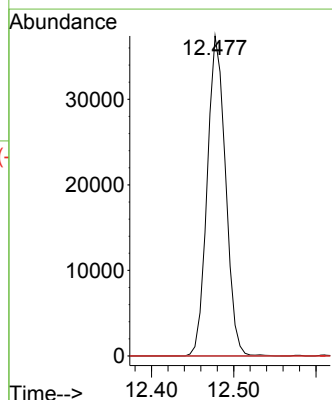
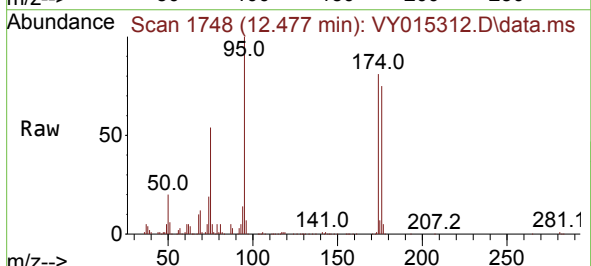
Tgt Ion: 75 Resp: 57985

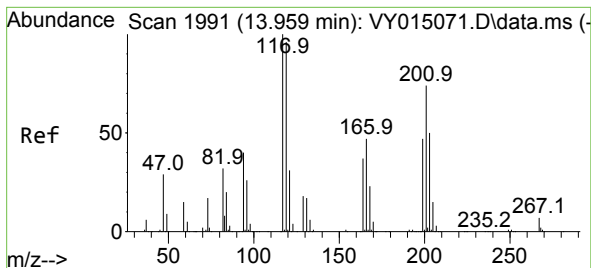
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.0 37.4 56.0#





#90

Hexachloroethane

Concen: 2.642 ug/l

RT: 13.971 min Scan# 1991

Delta R.T. 0.012 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

Instrument :

MSVOA_Y

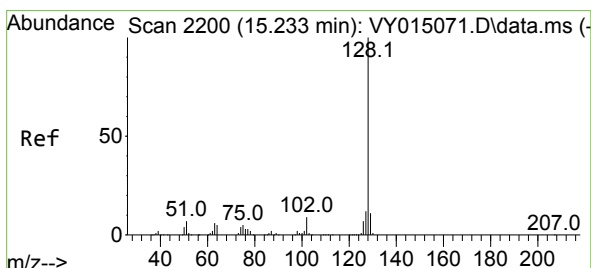
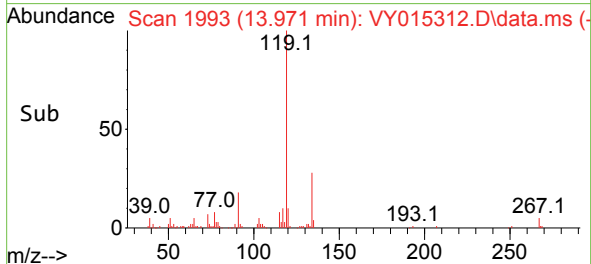
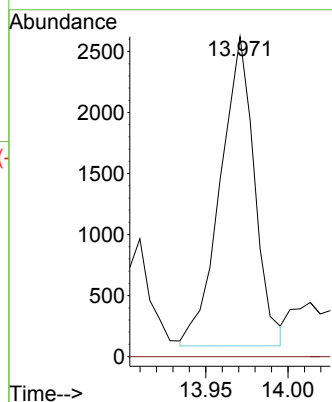
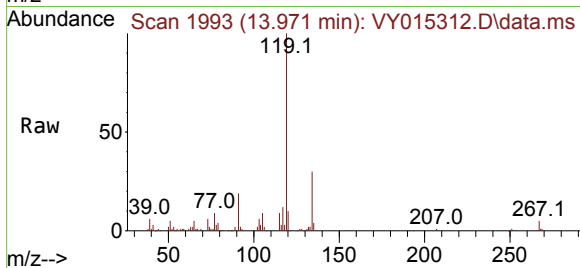
ClientSampleId :

Tgt Ion:117 Resp: 3659

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#95

Naphthalene

Concen: 68.248 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. 0.000 min

Lab File: VY015312.D

Acq: 24 Aug 2023 15:10

Tgt Ion:128 Resp: 371517

Ion Ratio Lower Upper

128 100

127 13.0 10.8 16.2

129 11.0 8.6 13.0

