

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081823\
 Data File : VY015189.D
 Acq On : 18 Aug 2023 12:24
 Operator : SY/MD
 Sample : 04070-01
 Misc : 5.05g/5.2mL/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 18 23:07:30 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)

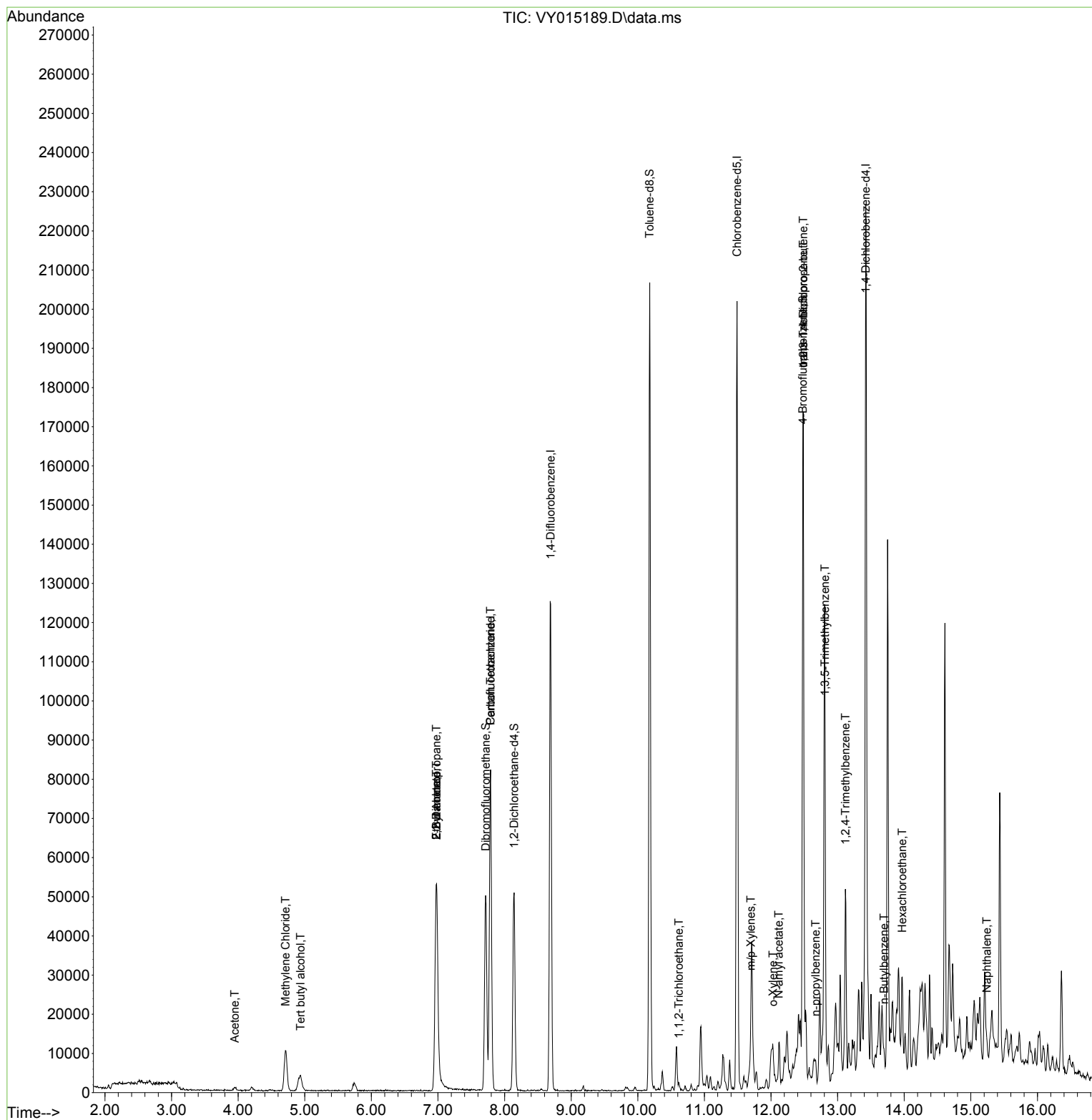
Internal Standards						
1) Pentafluorobenzene	7.789	168	62104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	108339	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	105928	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	51182	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	39869	53.480	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery	= 106.960%		
35) Dibromofluoromethane	7.716	113	35403	50.795	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery	= 101.580%		
50) Toluene-d8	10.179	98	129417	49.880	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery	= 99.760%		
62) 4-Bromofluorobenzene	12.477	95	46932	49.524	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery	= 99.040%		
Target Compounds						
						Qvalue
3) Chloromethane	2.113	50	213	Below Cal	#	43
5) Bromomethane	2.668	94	251	Below Cal		86
11) Tert butyl alcohol	4.936	59	4880	25.191	ug/l #	90
16) Acetone	3.948	43	1485	6.097	ug/l	93
20) Methylene Chloride	4.710	84	8076	10.410	ug/l #	82
25) 2-Butanone	6.978	43	2871	8.326	ug/l #	84
26) 2,2-Dichloropropane	6.978	77	4144	4.153	ug/l #	54
31) Cyclohexane	7.783	56	1314	Below Cal	#	7
37) Ethyl Acetate	6.978	43	2871	3.994	ug/l #	1
38) Carbon Tetrachloride	7.789	117	6408	7.022	ug/l #	17
55) 1,1,2-Trichloroethane	10.617	97	757	1.201	ug/l #	14
68) m/p-Xylenes	11.697	106	2739	2.133	ug/l	97
69) o-Xylene	12.032	106	1901	1.486	ug/l	94
74) N-amyl acetate	12.117	43	2727	2.295	ug/l #	75
76) 1,2,3-Trichloropropane	12.483	75	25933	41.705	ug/l #	100
78) n-propylbenzene	12.672	91	4101	1.049	ug/l	93
80) 1,3,5-Trimethylbenzene	12.812	105	7259	2.646	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.483	75	25933	91.604	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	24247	8.845	ug/l	100
89) n-Butylbenzene	13.696	91	4021	1.399	ug/l #	72
90) Hexachloroethane	13.971	117	761	1.258	ug/l #	8
95) Naphthalene	15.239	128	3040	1.279	ug/l #	88

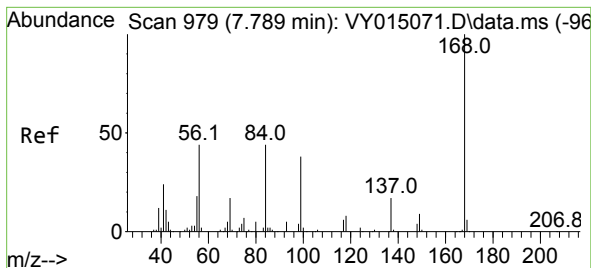
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 14 12:43:26 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.789 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

Instrument :

MSVOA_Y

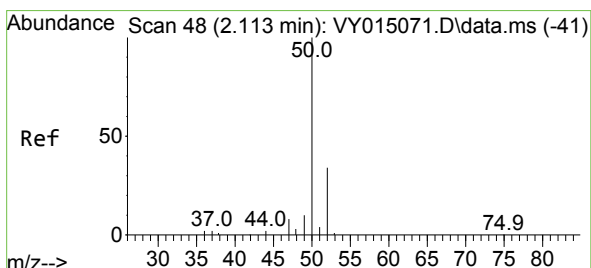
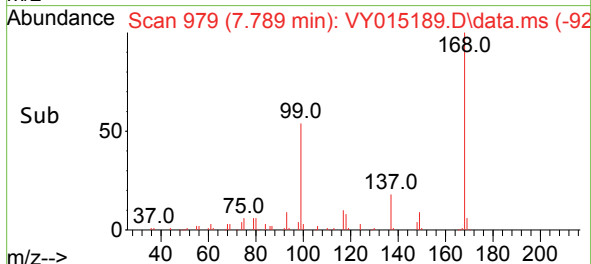
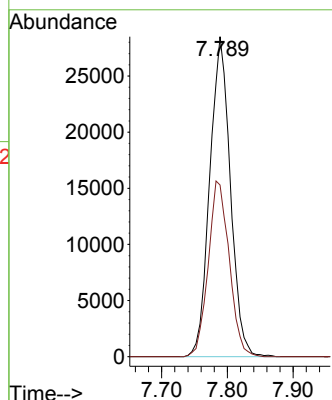
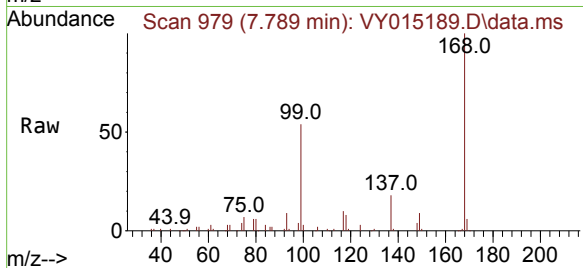
ClientSampleId :

Tgt Ion:168 Resp: 62104

Ion Ratio Lower Upper

168 100

99 53.6 43.4 65.0



#3

Chloromethane

Concen: Below Cal

RT: 2.113 min Scan# 48

Delta R.T. 0.006 min

Lab File: VY015189.D

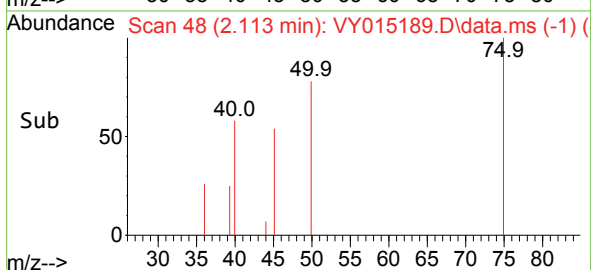
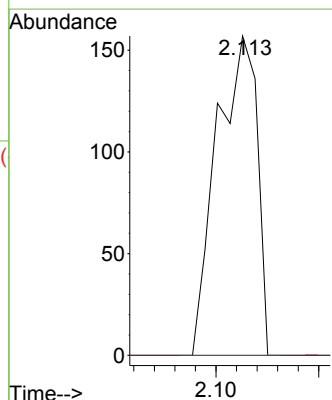
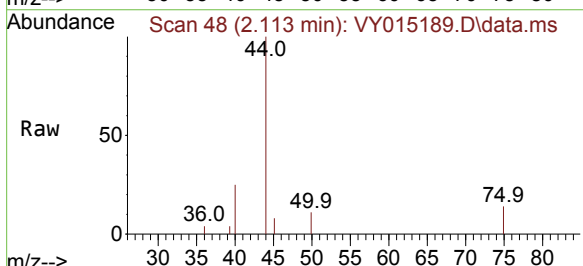
Acq: 18 Aug 2023 12:24

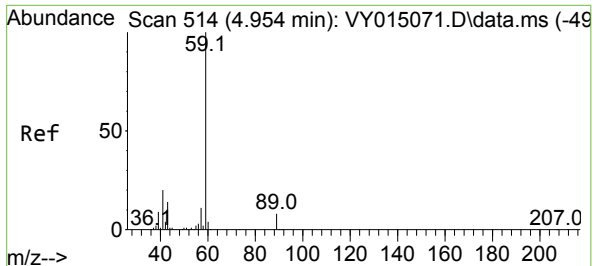
Tgt Ion: 50 Resp: 213

Ion Ratio Lower Upper

50 100

52 0.0 25.4 38.2#





#11

Tert butyl alcohol

Concen: 25.191 ug/l

RT: 4.936 min Scan# 511

Delta R.T. -0.012 min

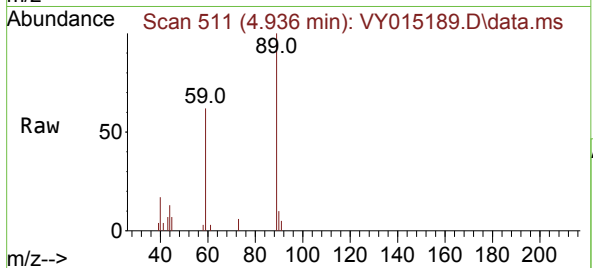
Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

Instrument :

MSVOA_Y

ClientSampleId :

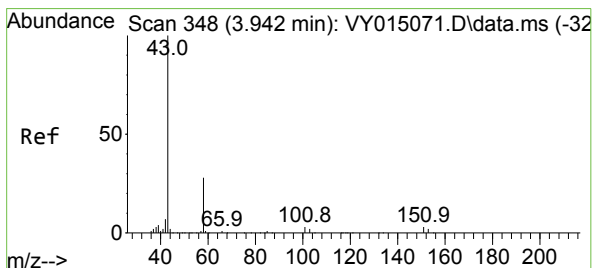
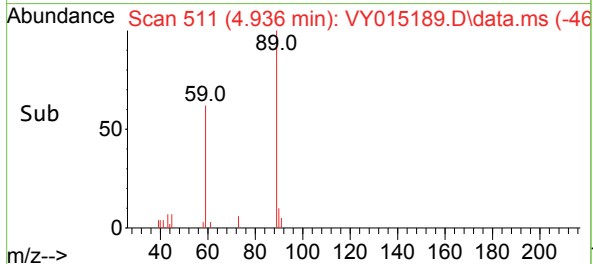
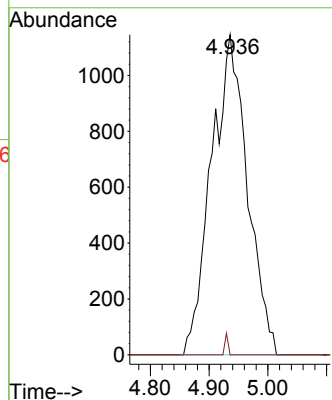


Tgt Ion: 59 Resp: 4880

Ion Ratio Lower Upper

59 100

57 0.6 3.0 4.4#



#16

Acetone

Concen: 6.097 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.006 min

Lab File: VY015189.D

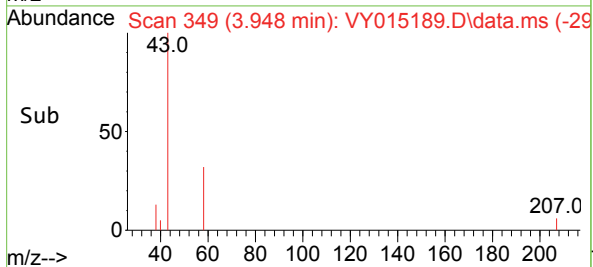
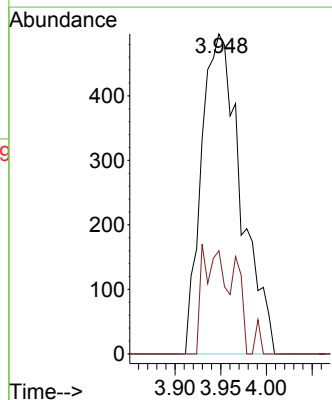
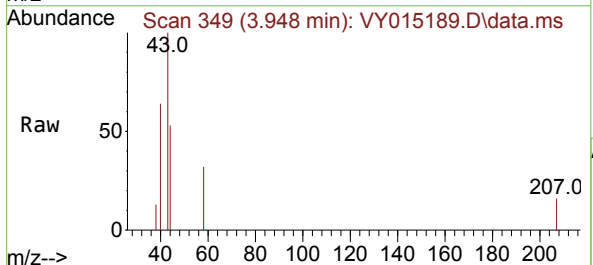
Acq: 18 Aug 2023 12:24

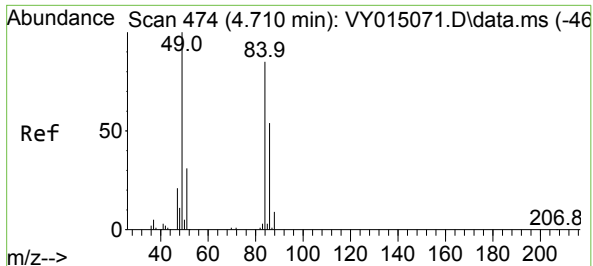
Tgt Ion: 43 Resp: 1485

Ion Ratio Lower Upper

43 100

58 32.3 22.7 34.1





#20

Methylene Chloride

Concen: 10.410 ug/l

RT: 4.710 min Scan# 41

Delta R.T. 0.000 min

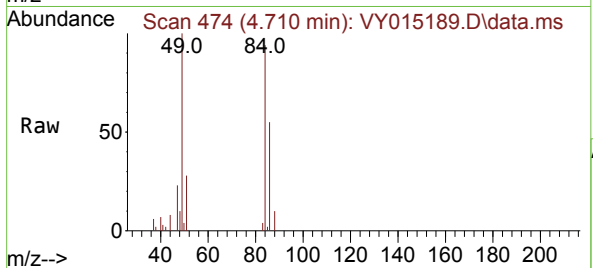
Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 84 Resp: 8076

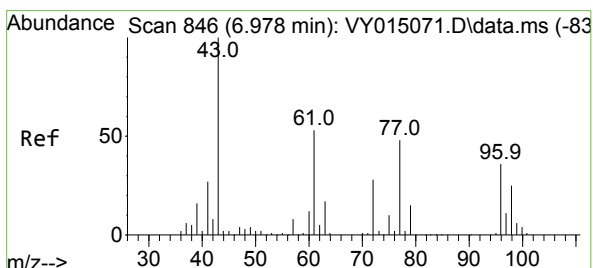
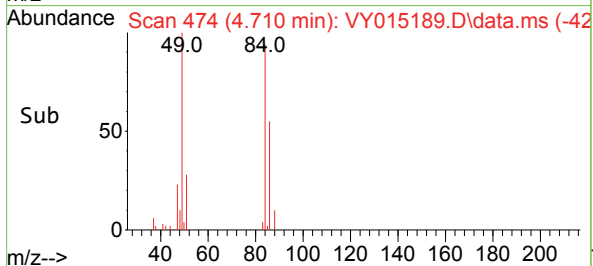
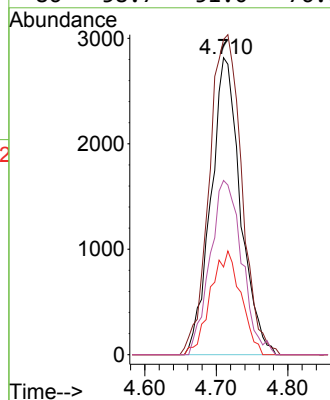
Ion Ratio Lower Upper

84 100

49 106.1 106.9 160.3#

51 29.5 33.2 49.8#

86 58.7 51.0 76.6



#25

2-Butanone

Concen: 8.326 ug/l

RT: 6.978 min Scan# 846

Delta R.T. -0.000 min

Lab File: VY015189.D

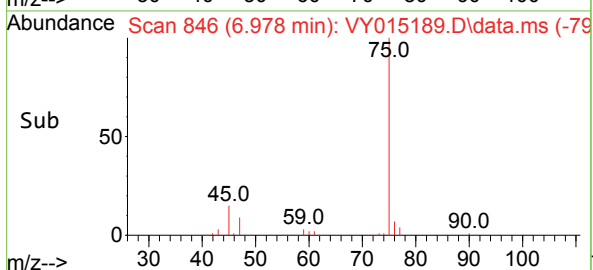
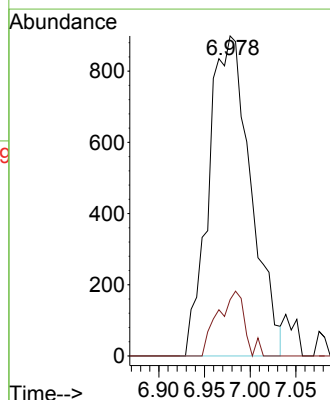
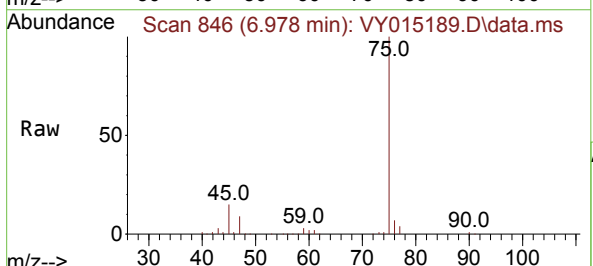
Acq: 18 Aug 2023 12:24

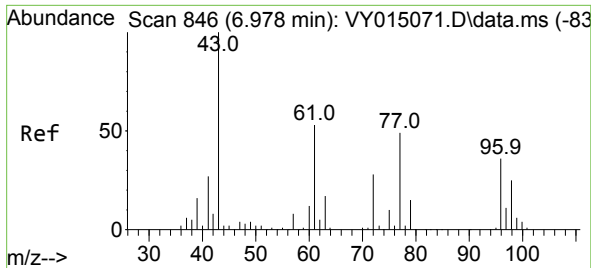
Tgt Ion: 43 Resp: 2871

Ion Ratio Lower Upper

43 100

72 17.6 20.5 30.7#

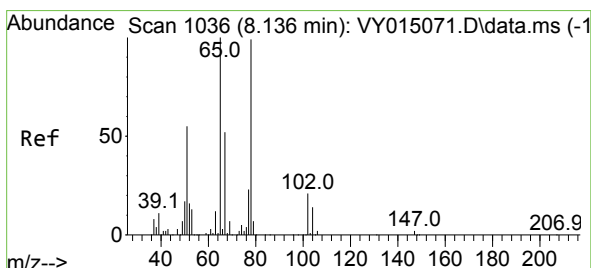
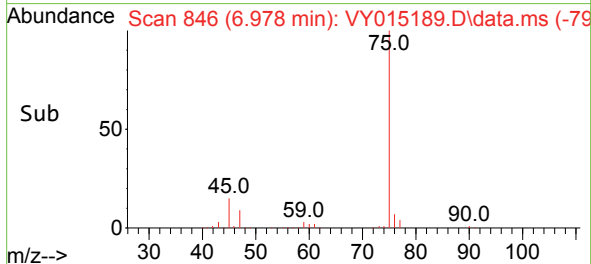
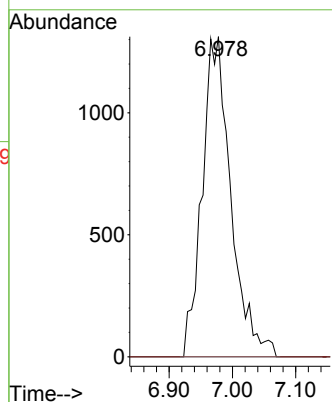
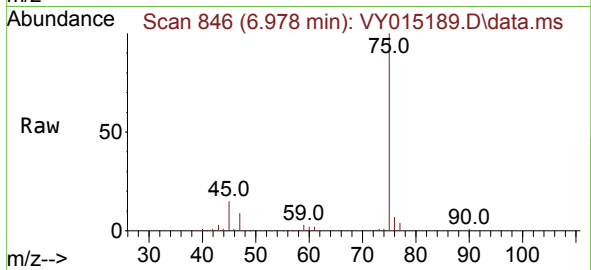




#26
2,2-Dichloropropane
Concen: 4.153 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

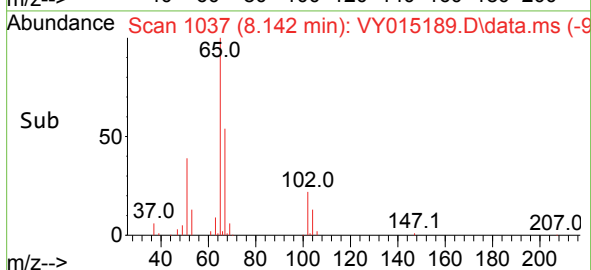
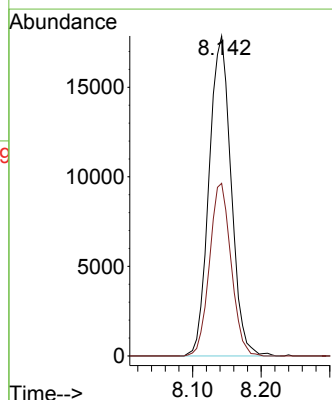
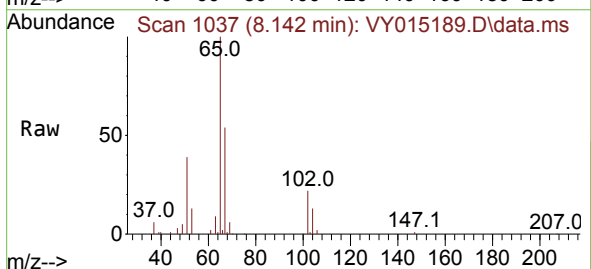
Instrument :
MSVOA_Y
ClientSampleId :

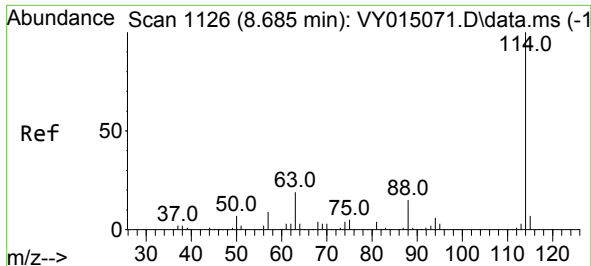
Tgt Ion: 77 Resp: 4144
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#33
1,2-Dichloroethane-d4
Concen: 53.480 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

Tgt Ion: 65 Resp: 39869
Ion Ratio Lower Upper
65 100
67 52.7 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: VY015189.D

Acq: 18 Aug 2023 12:24

Instrument :

MSVOA_Y

ClientSampleId :

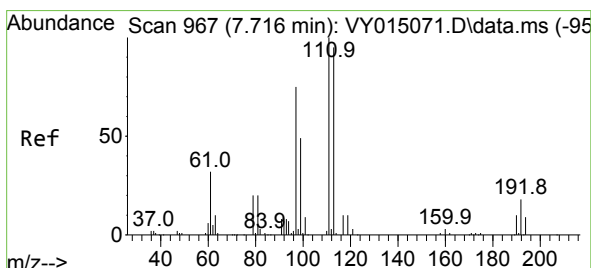
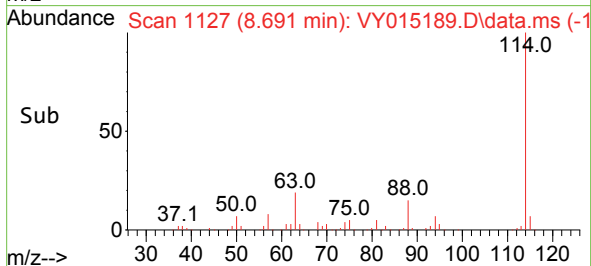
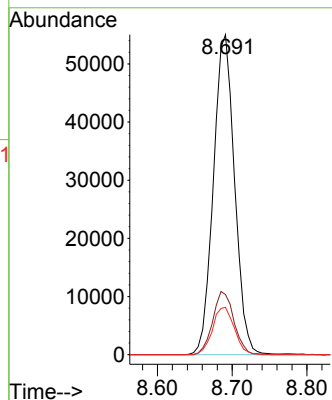
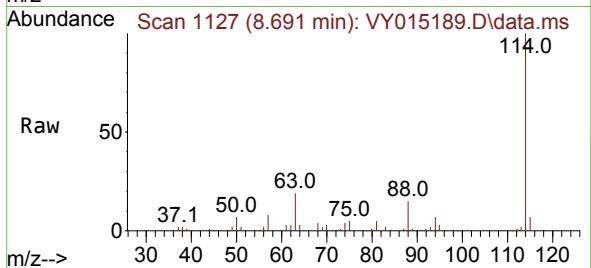
Tgt Ion:114 Resp: 108339

Ion Ratio Lower Upper

114 100

63 18.8 0.0 42.4

88 14.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.795 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

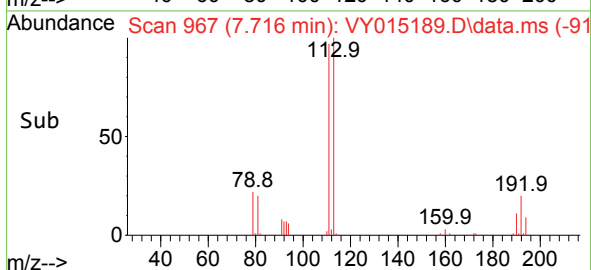
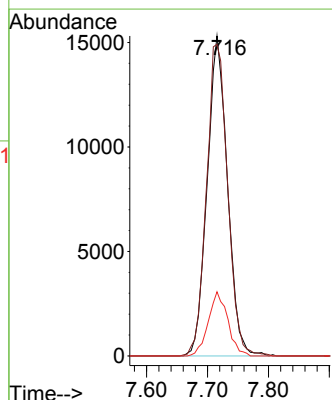
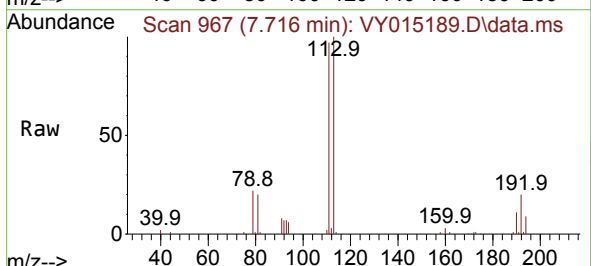
Tgt Ion:113 Resp: 35403

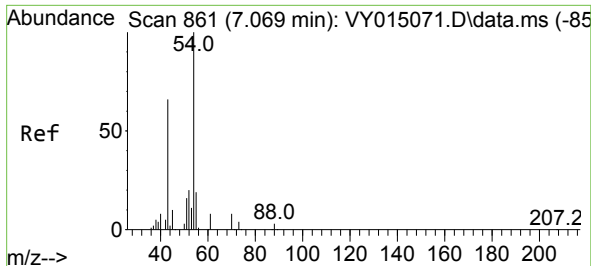
Ion Ratio Lower Upper

113 100

111 101.9 81.3 121.9

192 19.3 16.9 25.3





#37

Ethyl Acetate

Concen: 3.994 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.092 min

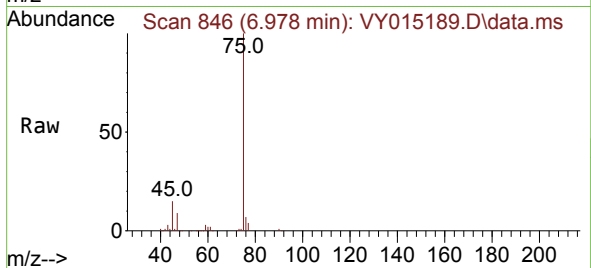
Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

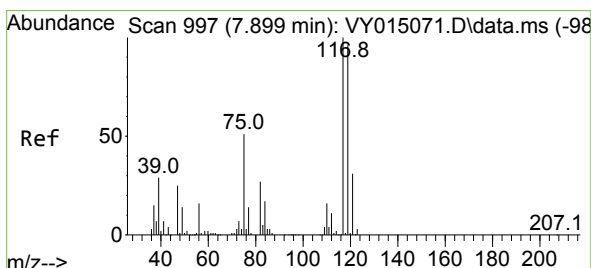
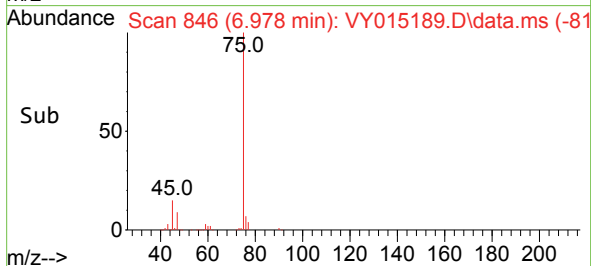
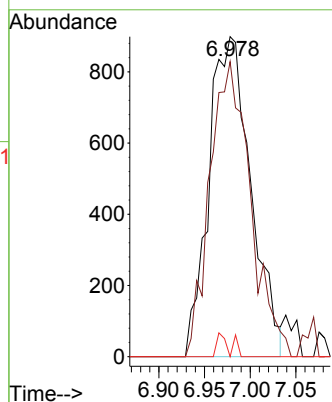
Instrument :

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ClientSampleId :



Tgt Ion:	43	Resp:	2871
Ion	Ratio	Lower	Upper
43	100		
61	89.2	10.1	15.1#
70	1.5	7.1	10.7#



#38

Carbon Tetrachloride

Concen: 7.022 ug/l

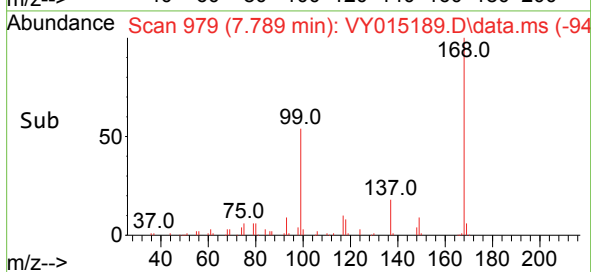
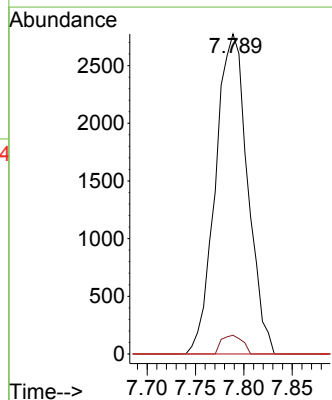
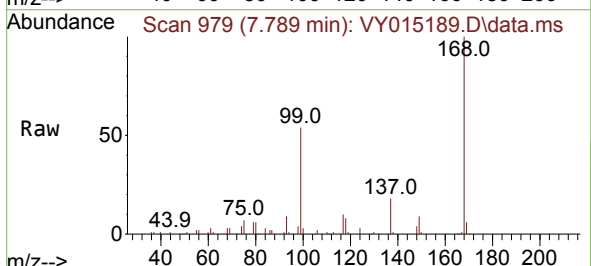
RT: 7.789 min Scan# 979

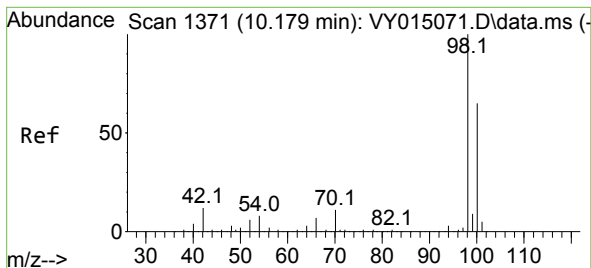
Delta R.T. -0.110 min

Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

Tgt Ion:	117	Resp:	6408
Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.4	114.6#
121	0.0	25.8	38.6#

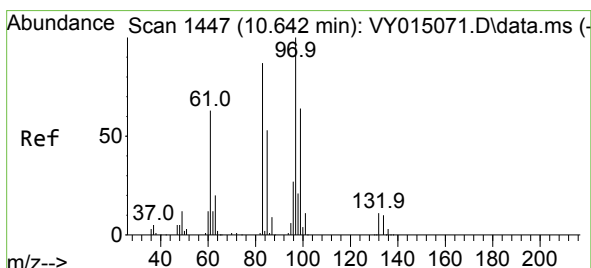
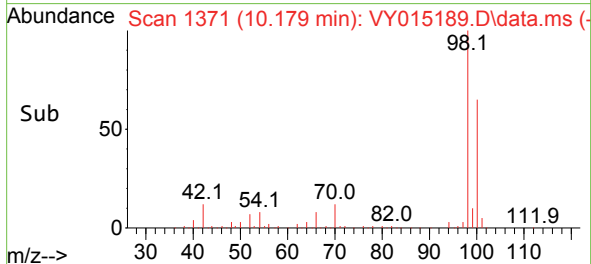
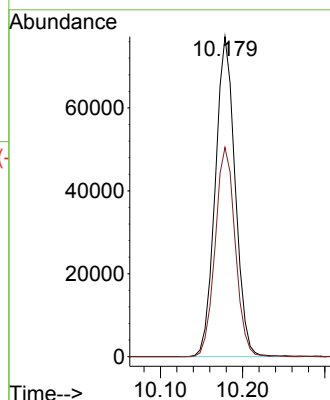
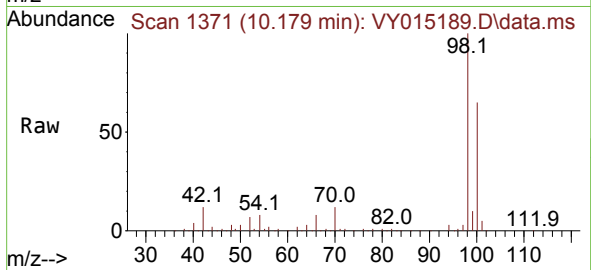




#50
Toluene-d8
Concen: 49.880 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

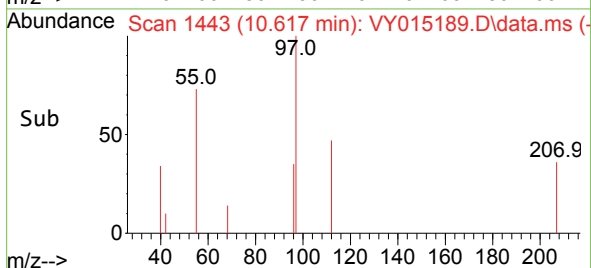
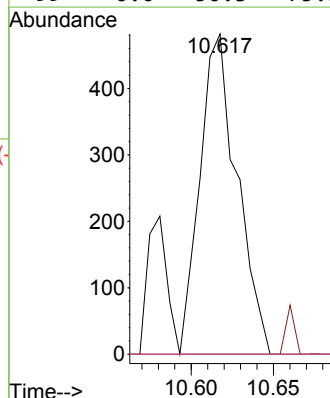
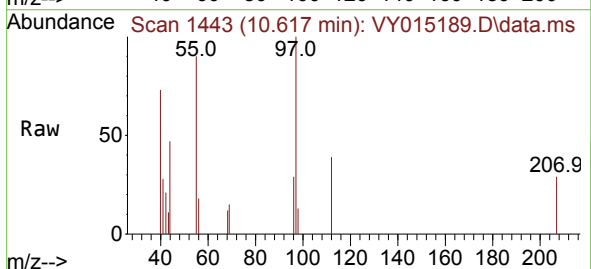
Instrument :
MSVOA_Y
ClientSampleId :

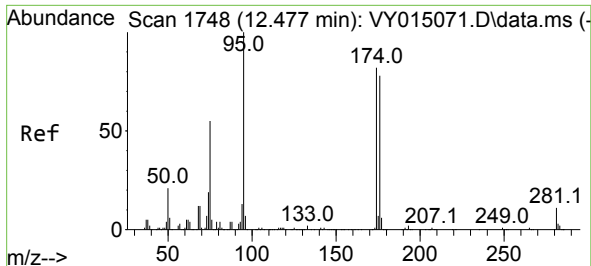
Tgt Ion: 98 Resp: 129417
Ion Ratio Lower Upper
98 100
100 66.0 50.1 75.1



#55
1,1,2-Trichloroethane
Concen: 1.201 ug/l
RT: 10.617 min Scan# 1443
Delta R.T. -0.025 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

Tgt Ion: 97 Resp: 757
Ion Ratio Lower Upper
97 100
83 0.0 72.0 108.0#
85 0.0 45.4 68.0#
99 0.0 50.3 75.5#

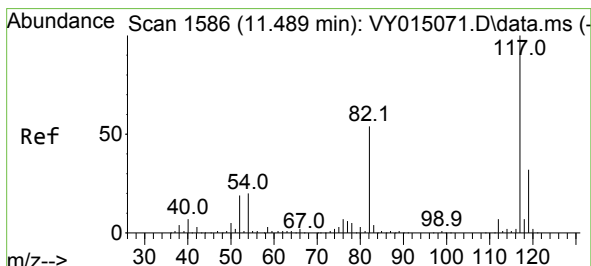
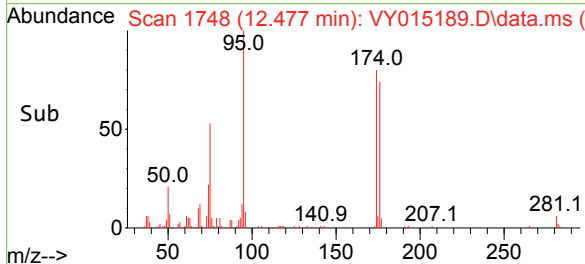
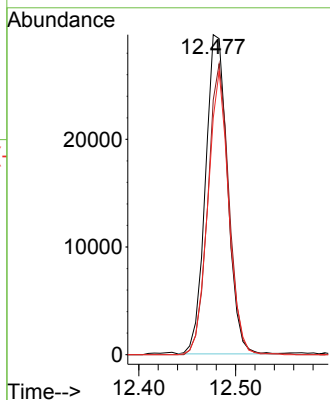
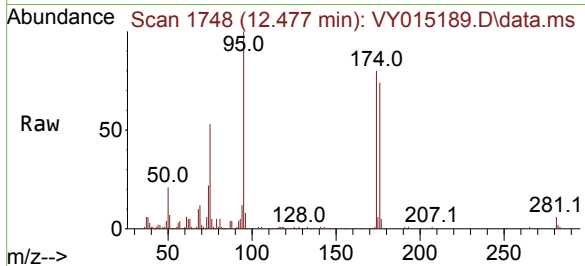




#62
4-Bromofluorobenzene
Concen: 49.524 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

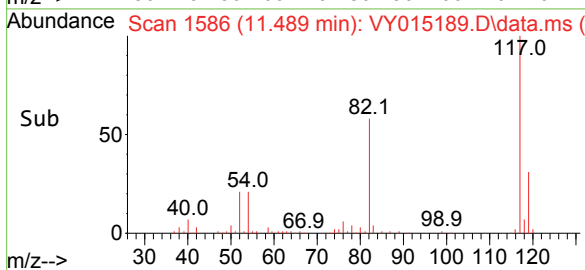
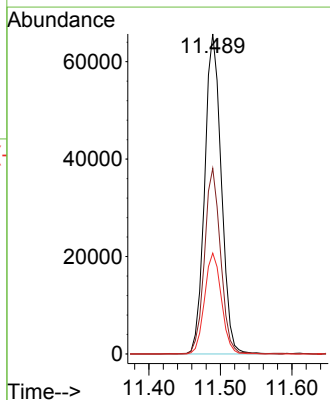
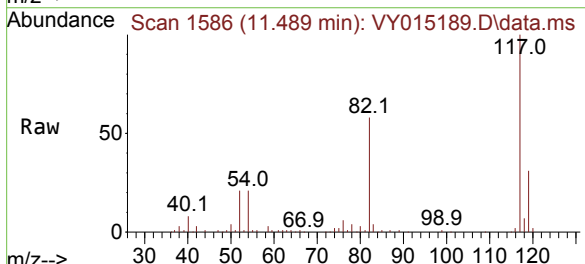
Instrument :
MSVOA_Y
ClientSampleId :

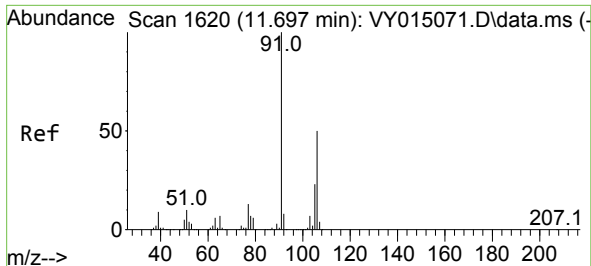
Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	178.2
176	84.0	0.0	173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.9	43.4	65.0
119	31.5	26.3	39.5

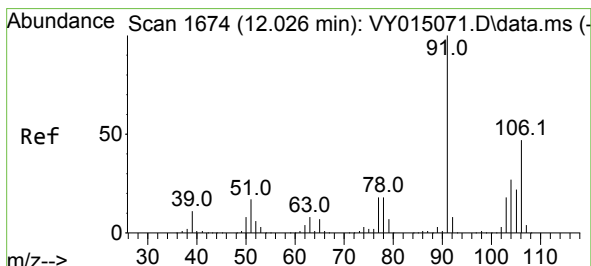
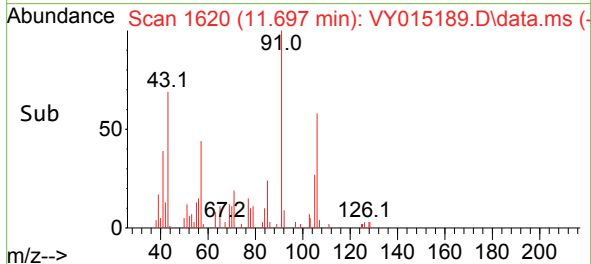
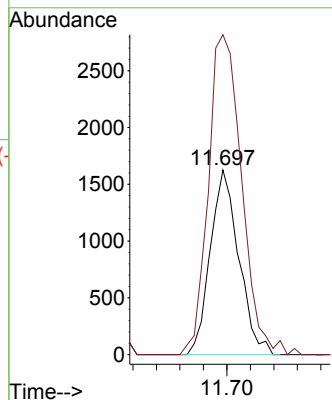
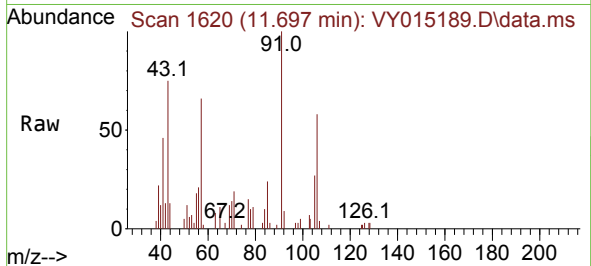




#68
m/p-Xylenes
Concen: 2.133 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

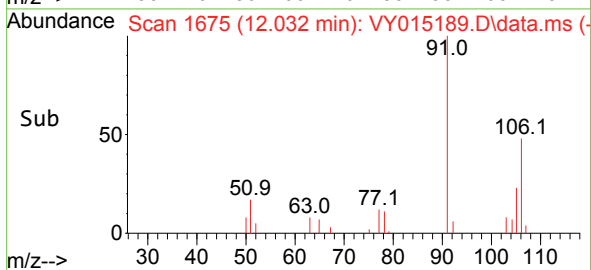
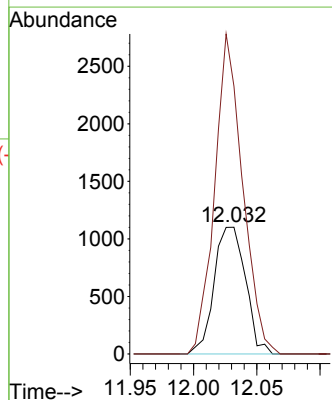
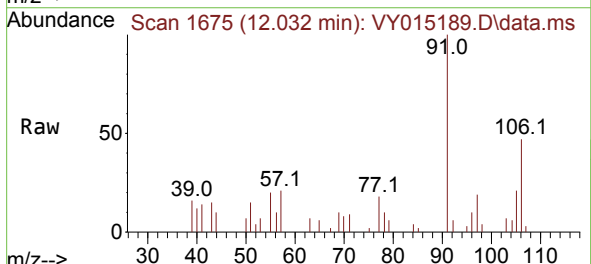
Instrument :
MSVOA_Y
ClientSampleId :

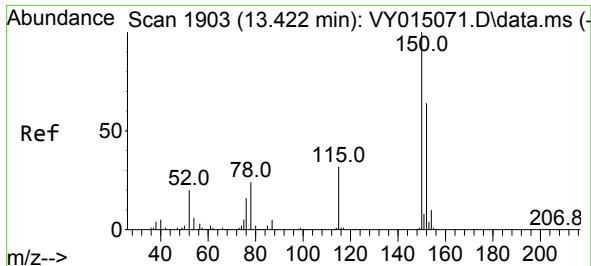
Tgt Ion:106 Resp: 2739
Ion Ratio Lower Upper
106 100
91 202.6 166.1 249.1



#69
o-Xylene
Concen: 1.486 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

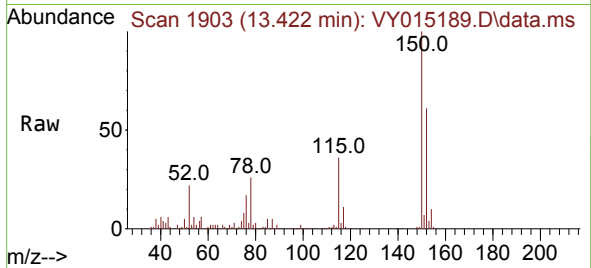
Tgt Ion:106 Resp: 1901
Ion Ratio Lower Upper
106 100
91 225.2 108.1 324.3



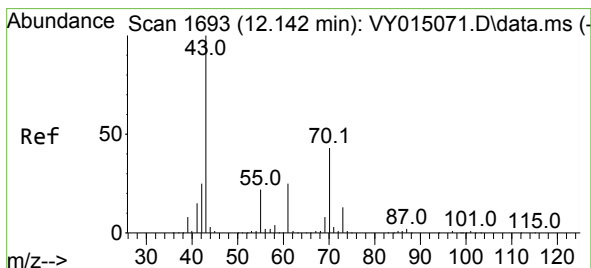
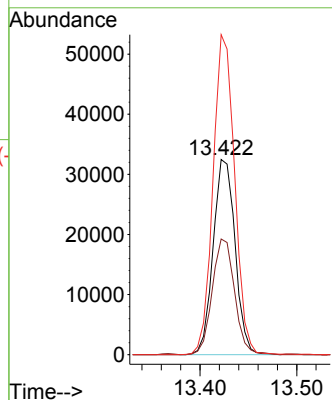
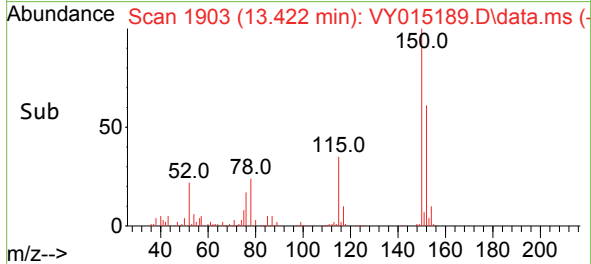


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

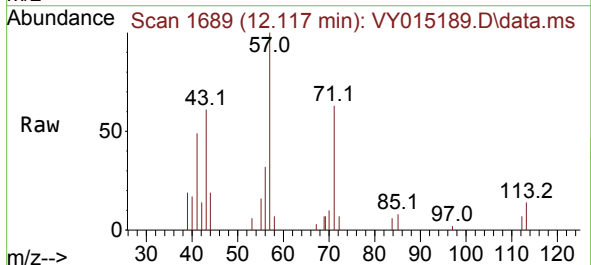
Instrument :
MSVOA_Y
ClientSampleId :



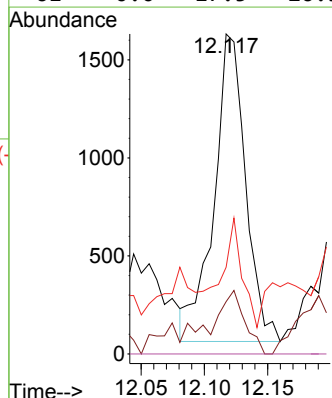
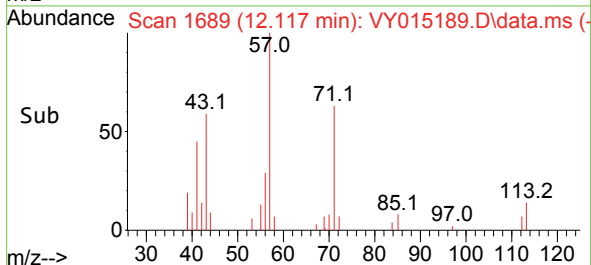
Tgt Ion:152 Resp: 51182
Ion Ratio Lower Upper
152 100
115 60.4 28.8 86.5
150 161.5 0.0 348.8

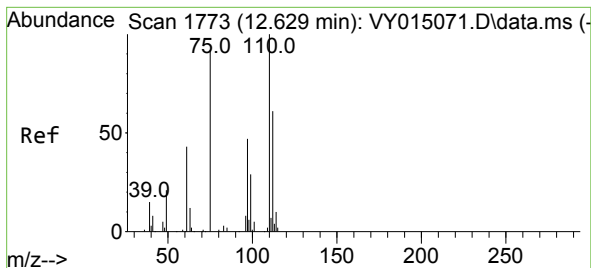


#74
N-ethyl acetate
Concen: 2.295 ug/l
RT: 12.117 min Scan# 1689
Delta R.T. -0.025 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24



Tgt Ion: 43 Resp: 2727
Ion Ratio Lower Upper
43 100
70 22.8 29.7 44.5#
55 20.2 18.3 27.5
61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 41.705 ug/l

RT: 12.483 min Scan# 11

Delta R.T. -0.146 min

Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

Instrument :

MSVOA_Y

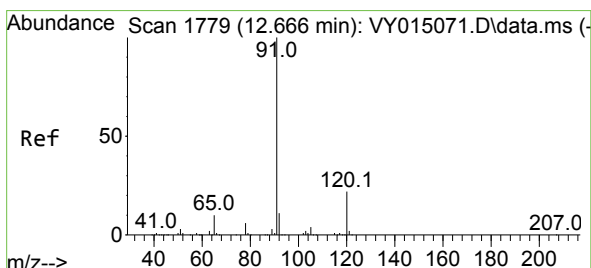
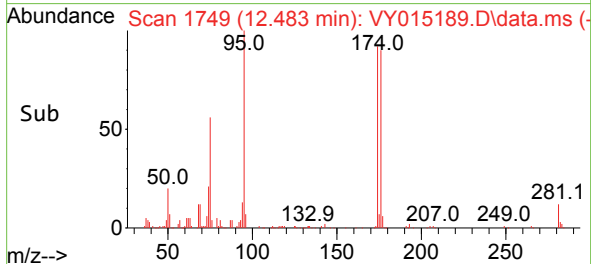
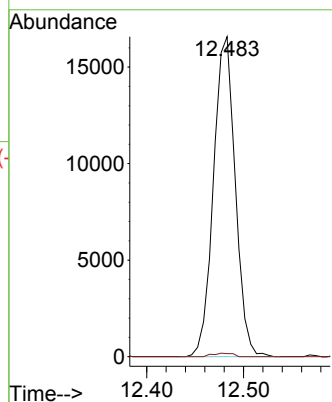
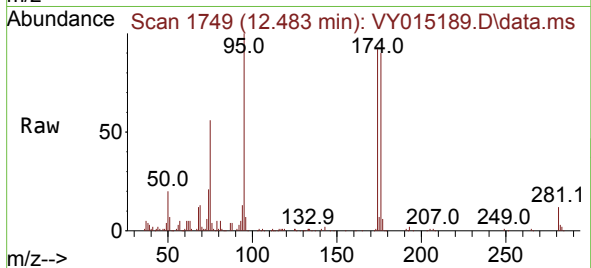
ClientSampleId :

Tgt Ion: 75 Resp: 25933

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#78

n-propylbenzene

Concen: 1.049 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.006 min

Lab File: VY015189.D

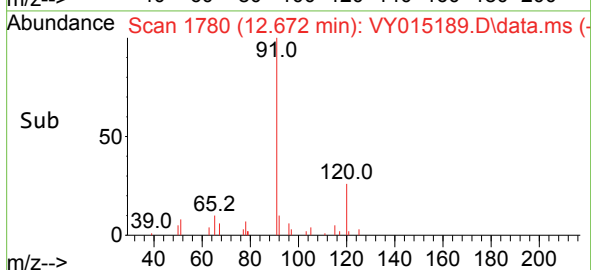
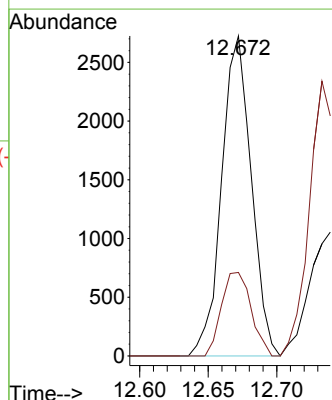
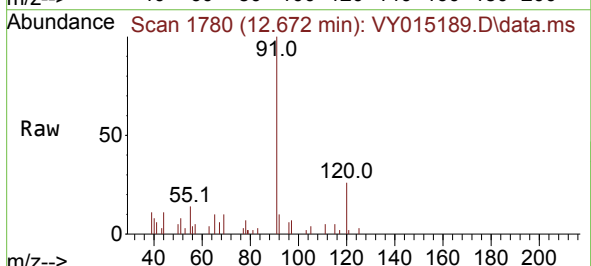
Acq: 18 Aug 2023 12:24

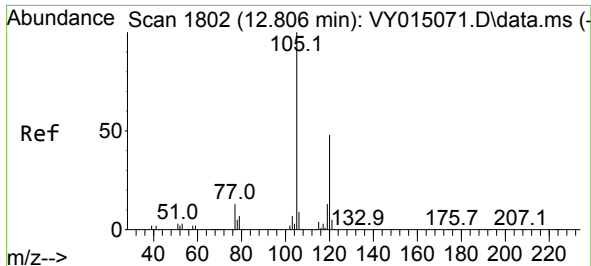
Tgt Ion: 91 Resp: 4101

Ion Ratio Lower Upper

91 100

120 26.1 11.5 34.4

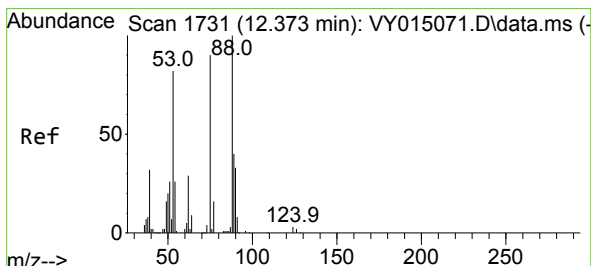
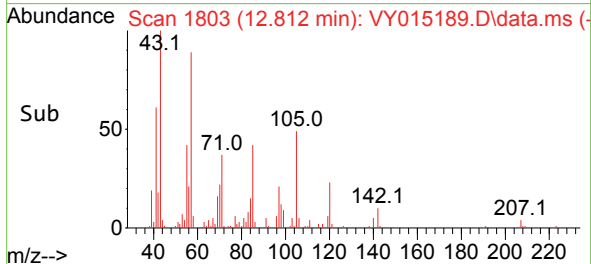
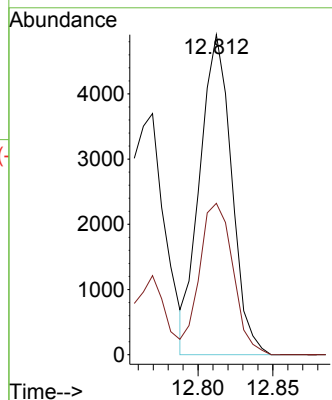
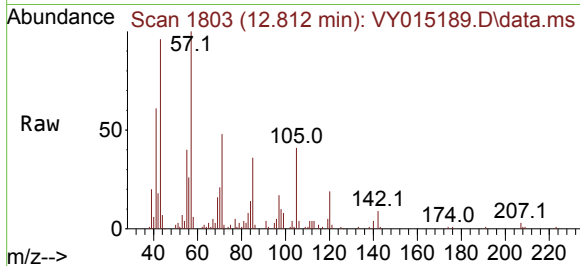




#80
1,3,5-Trimethylbenzene
Concen: 2.646 ug/l
RT: 12.812 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

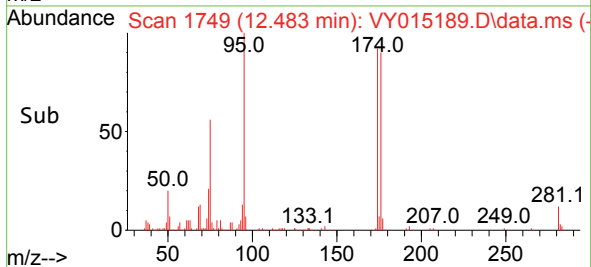
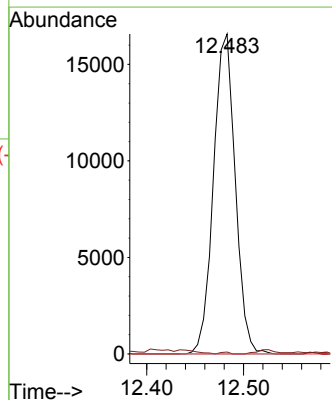
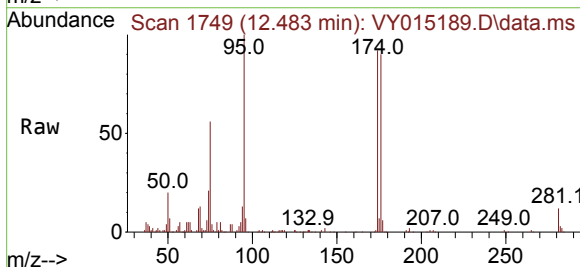
Instrument :
MSVOA_Y
ClientSampleId :

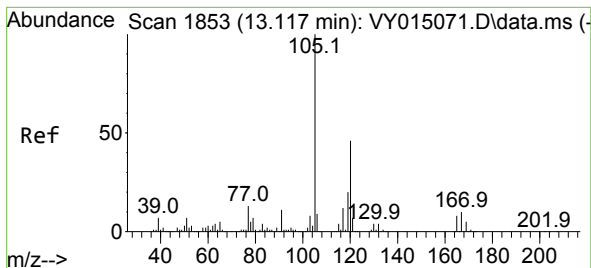
Tgt Ion:105 Resp: 7259
Ion Ratio Lower Upper
105 100
120 49.9 23.9 71.7



#81
trans-1,4-Dichloro-2-butene
Concen: 91.604 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.110 min
Lab File: VY015189.D
Acq: 18 Aug 2023 12:24

Tgt Ion: 75 Resp: 25933
Ion Ratio Lower Upper
75 100
53 0.3 77.8 116.8#
89 0.0 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 8.845 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

Instrument :

MSVOA_Y

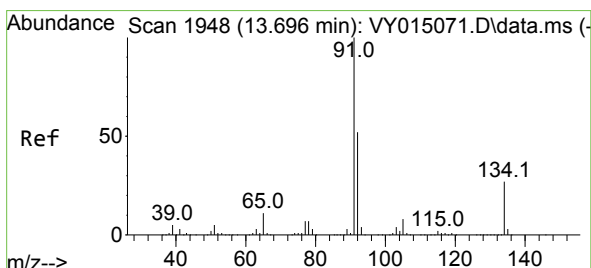
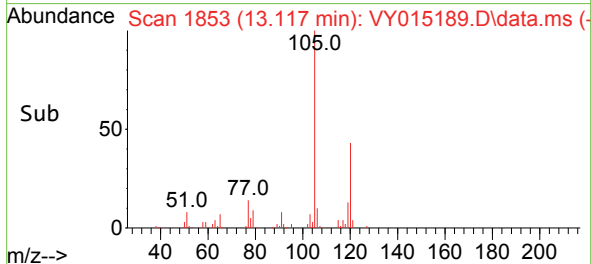
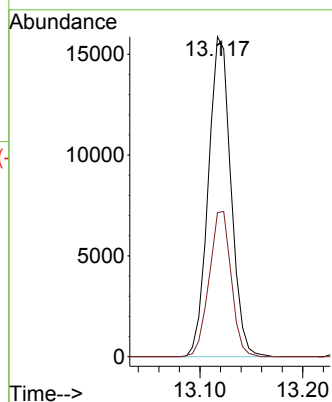
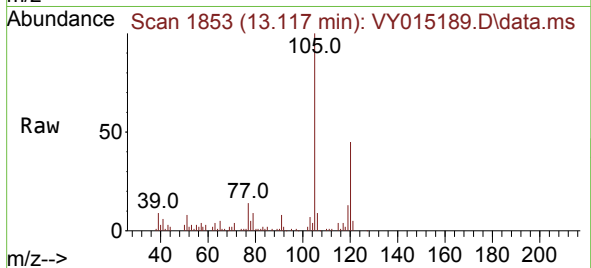
ClientSampleId :

Tgt Ion:105 Resp: 24247

Ion Ratio Lower Upper

105 100

120 44.2 22.2 66.6



#89

n-Butylbenzene

Concen: 1.399 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. -0.000 min

Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

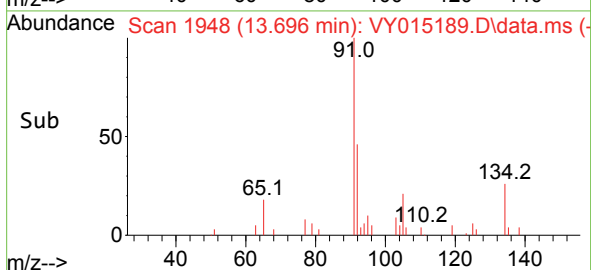
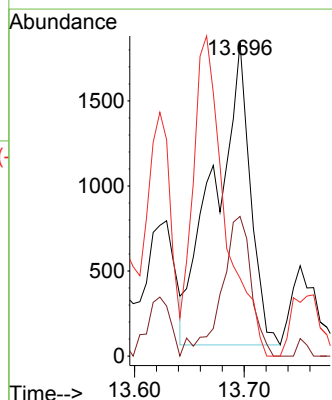
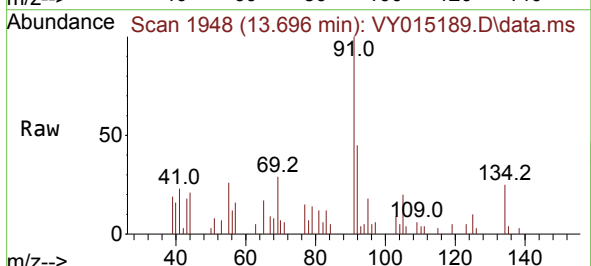
Tgt Ion: 91 Resp: 4021

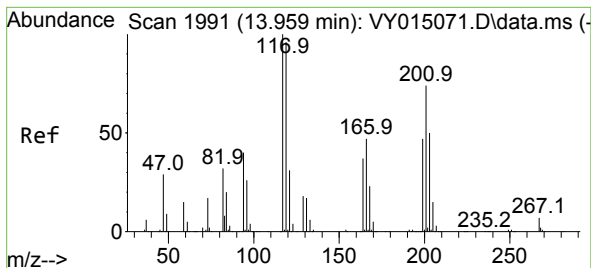
Ion Ratio Lower Upper

91 100

92 38.6 25.4 76.0

134 0.0 12.6 37.6#





#90

Hexachloroethane

Concen: 1.258 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

Instrument :

MSVOA_Y

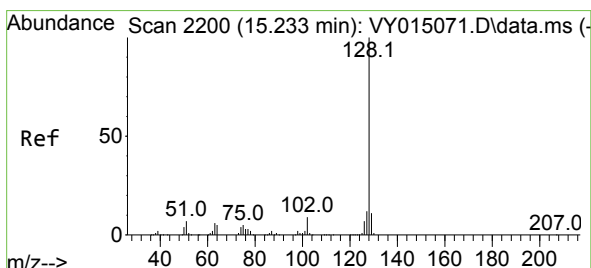
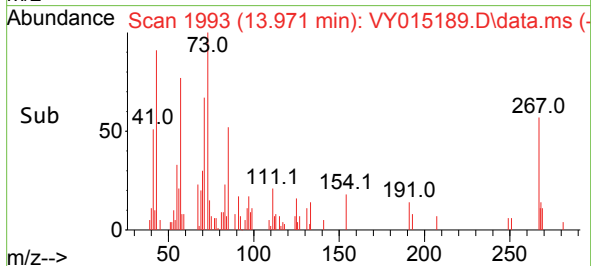
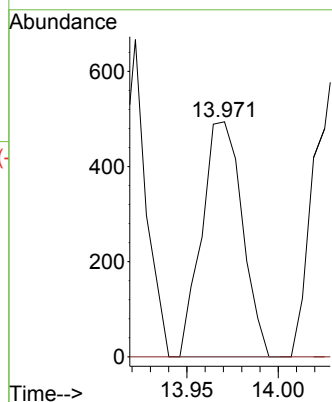
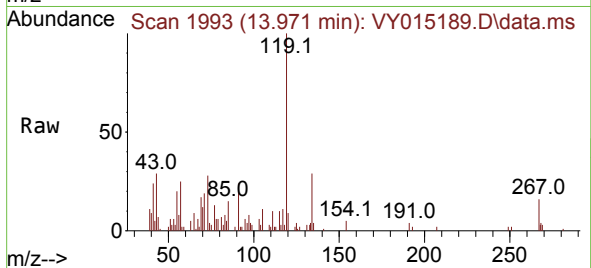
ClientSampleId :

Tgt Ion:117 Resp: 761

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#95

Naphthalene

Concen: 1.279 ug/l

RT: 15.239 min Scan# 2201

Delta R.T. 0.006 min

Lab File: VY015189.D

Acq: 18 Aug 2023 12:24

Tgt Ion:128 Resp: 3040

Ion Ratio Lower Upper

128 100

127 19.8 10.8 16.2#

129 13.7 8.6 13.0#

