

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081523\
 Data File : VY015103.D
 Acq On : 15 Aug 2023 15:06
 Operator : SY/MD
 Sample : 03989-02
 Misc : 5.09g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 16 02:04:51 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

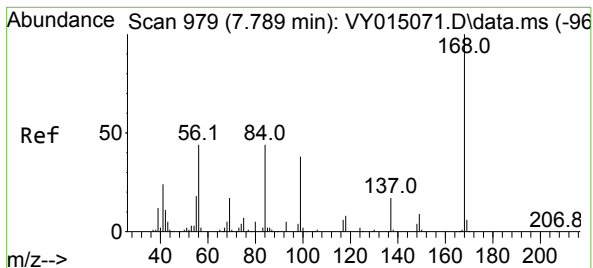
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.789	168	154487	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	262745	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	259126	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	138260	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	98226	52.967	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.940%	
35) Dibromofluoromethane	7.710	113	84493	49.986	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.980%	
50) Toluene-d8	10.179	98	314459	49.975	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.940%	
62) 4-Bromofluorobenzene	12.477	95	122119	53.135	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 106.280%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.906	85	20	Below Cal	#	43
3) Chloromethane	2.107	50	619	Below Cal		100
5) Bromomethane	2.650	94	281	Below Cal	#	35
11) Tert butyl alcohol	4.917	59	1387	Below Cal	#	89
13) Acrolein	3.716	56	215	Below Cal	#	65
16) Acetone	3.948	43	27677	45.685	ug/l	94
20) Methylene Chloride	4.710	84	15580	7.011	ug/l #	82
25) 2-Butanone	6.990	43	9856	11.490	ug/l	96
26) 2,2-Dichloropropane	6.978	77	4486	1.807	ug/l #	54
31) Cyclohexane	7.777	56	3395	Below Cal	#	43
36) 1,1-Dichloropropene	7.783	75	11857	6.340	ug/l #	50
37) Ethyl Acetate	6.990	43	9856	5.654	ug/l #	63
38) Carbon Tetrachloride	7.783	117	15201	6.868	ug/l #	16
76) 1,2,3-Trichloropropane	12.477	75	66325	39.485	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	66325	86.728	ug/l #	11
82) 4-Chlorotoluene	12.892	91	19342	3.074	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.117	105	7708	1.041	ug/l	100
86) p-Isopropyltoluene	13.367	119	24009	2.916	ug/l #	87
89) n-Butylbenzene	13.690	91	12304	1.585	ug/l #	79
90) Hexachloroethane	13.971	117	2766	1.693	ug/l #	9
95) Naphthalene	15.239	128	12362	1.925	ug/l #	87

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

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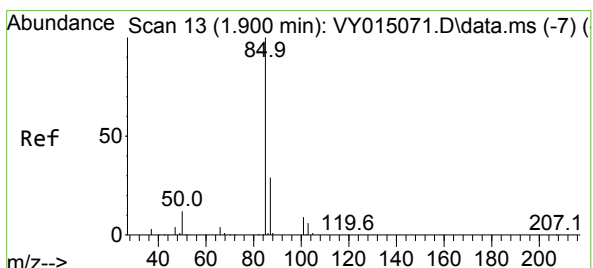
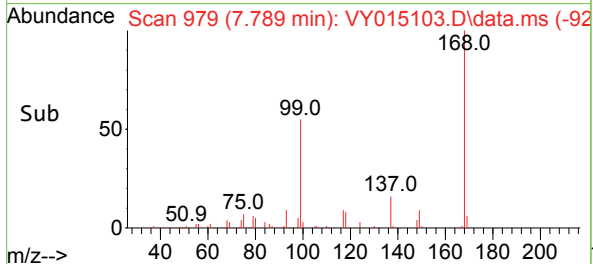
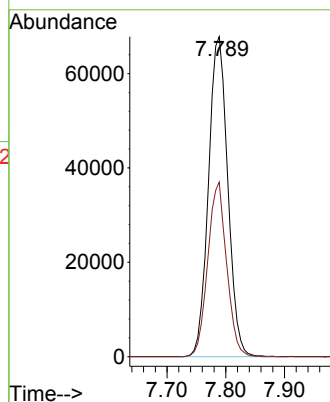
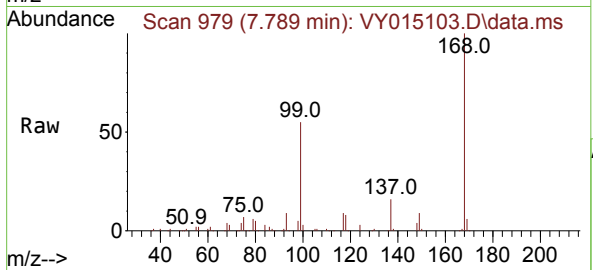




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

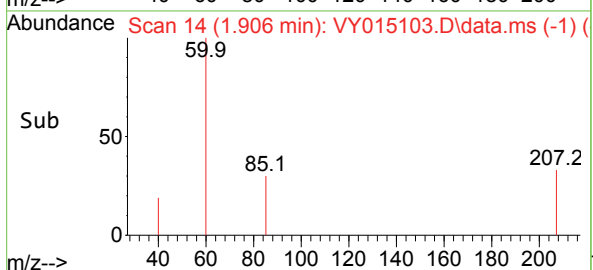
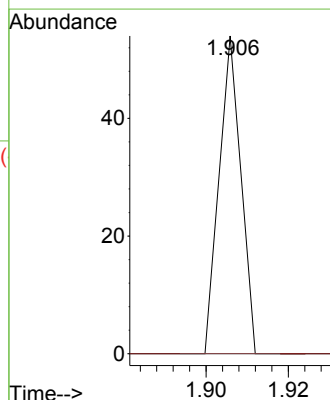
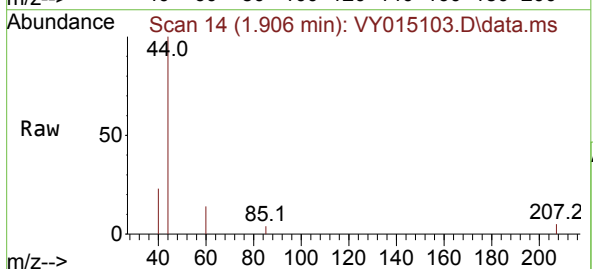
Instrument :
MSVOA_Y
ClientSampleId :

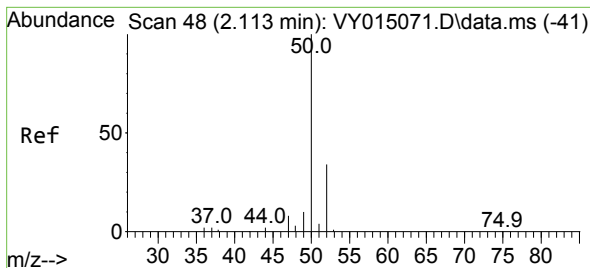
Tgt Ion:168 Resp: 154487
Ion Ratio Lower Upper
168 100
99 54.5 43.4 65.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.906 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

Tgt Ion: 85 Resp: 20
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#





#3

Chloromethane

Concen: Below Cal

RT: 2.107 min Scan# 41

Delta R.T. 0.000 min

Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

Instrument :

MSVOA_Y

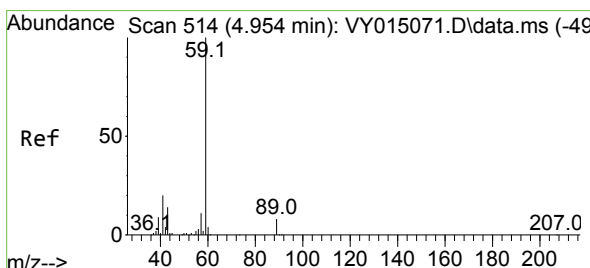
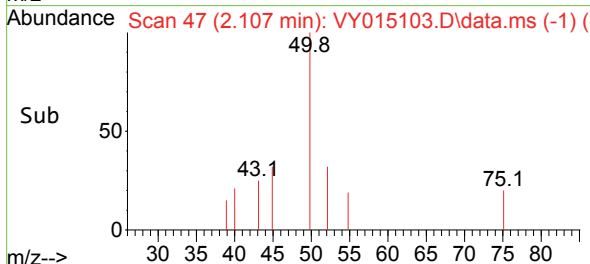
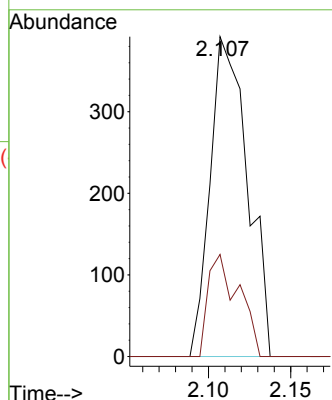
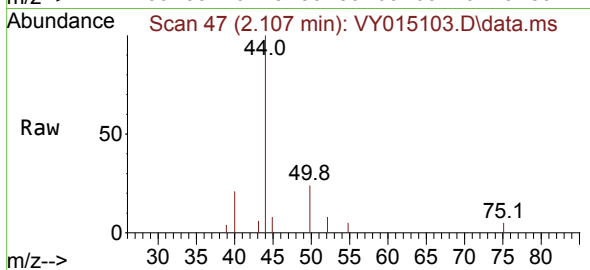
ClientSampleId :

Tgt Ion: 50 Resp: 619

Ion Ratio Lower Upper

50 100

52 31.9 25.4 38.2



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.917 min Scan# 508

Delta R.T. -0.031 min

Lab File: VY015103.D

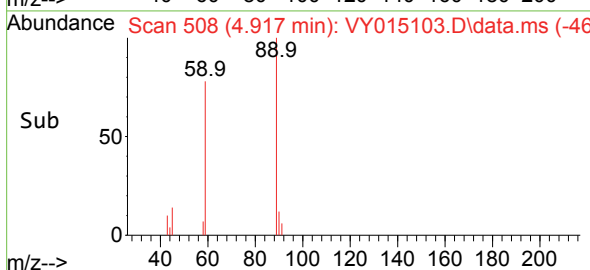
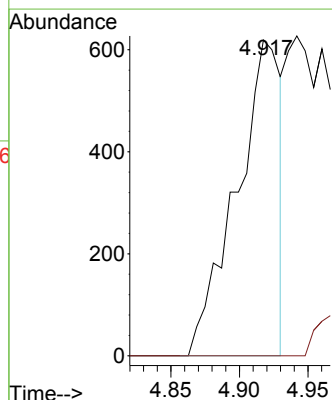
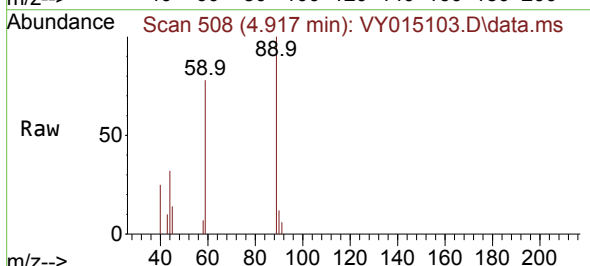
Acq: 15 Aug 2023 15:06

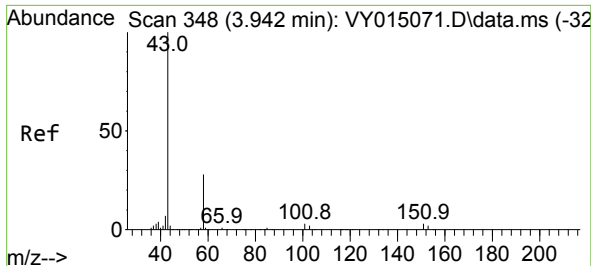
Tgt Ion: 59 Resp: 1387

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#

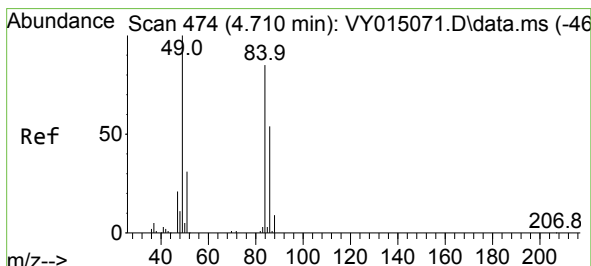
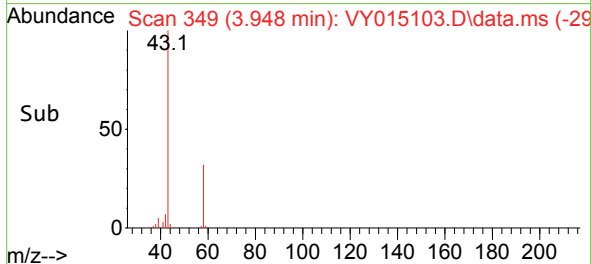
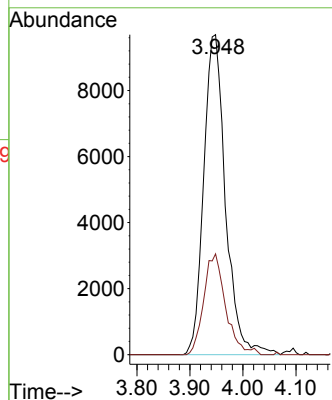
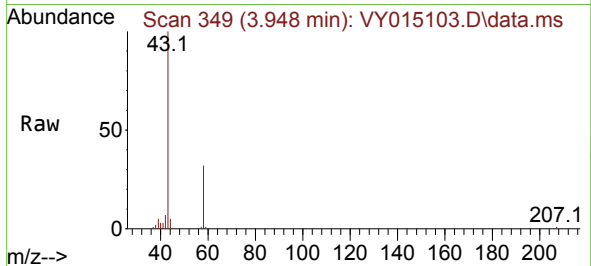




#16
Acetone
Concen: 45.685 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

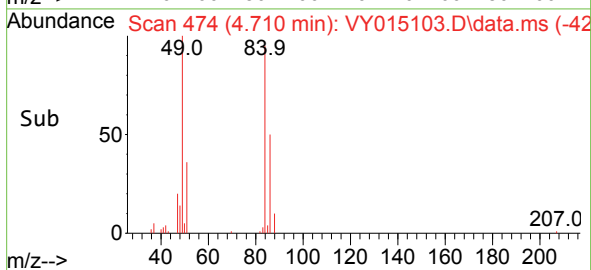
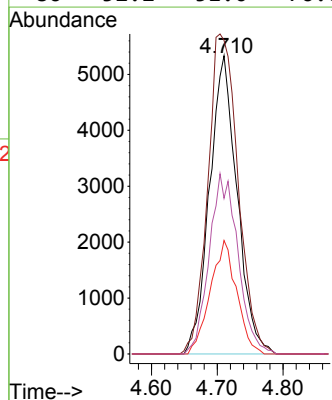
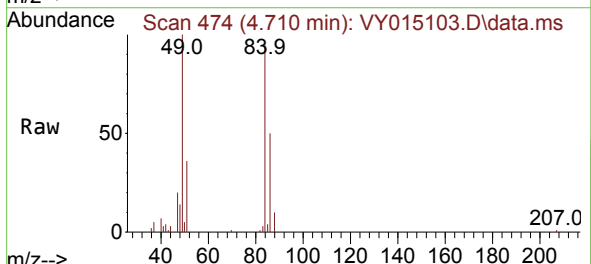
Instrument :
MSVOA_Y
ClientSampleId :

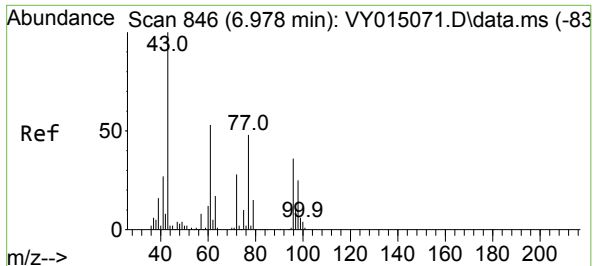
Tgt Ion: 43 Resp: 27677
Ion Ratio Lower Upper
43 100
58 31.5 22.7 34.1



#20
Methylene Chloride
Concen: 7.011 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

Tgt Ion: 84 Resp: 15580
Ion Ratio Lower Upper
84 100
49 105.2 106.9 160.3#
51 38.1 33.2 49.8
86 52.2 51.0 76.6





#25

2-Butanone

Concen: 11.490 ug/l

RT: 6.990 min Scan# 846

Delta R.T. 0.012 min

Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

Instrument :

MSVOA_Y

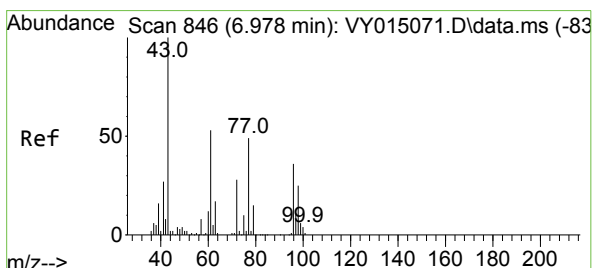
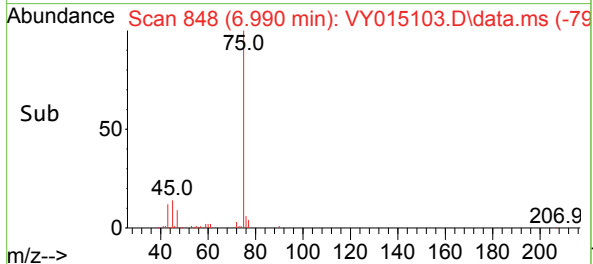
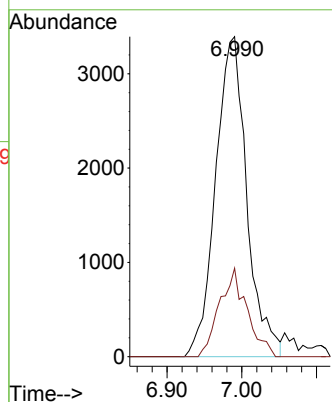
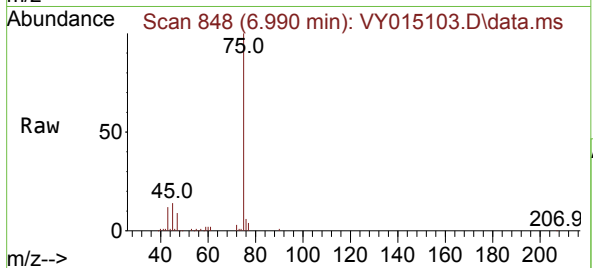
ClientSampleId :

Tgt Ion: 43 Resp: 9856

Ion Ratio Lower Upper

43 100

72 27.7 20.5 30.7



#26

2,2-Dichloropropane

Concen: 1.807 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.006 min

Lab File: VY015103.D

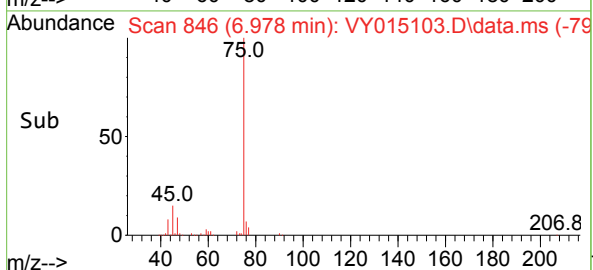
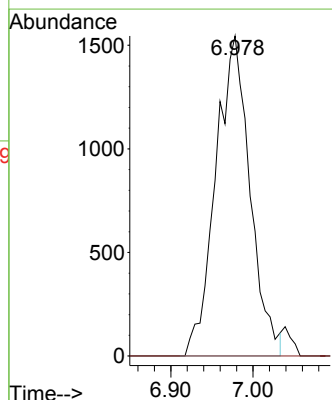
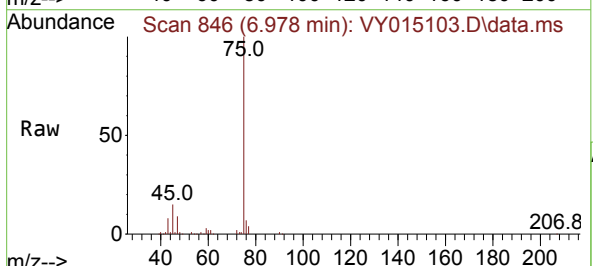
Acq: 15 Aug 2023 15:06

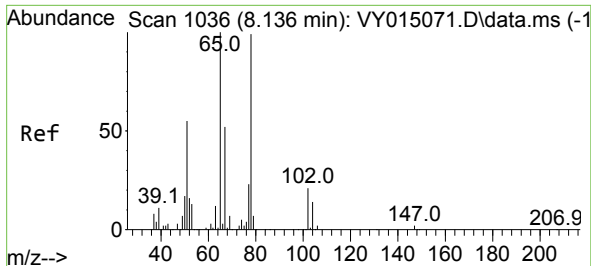
Tgt Ion: 77 Resp: 4486

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#





#33

1,2-Dichloroethane-d4

Concen: 52.967 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

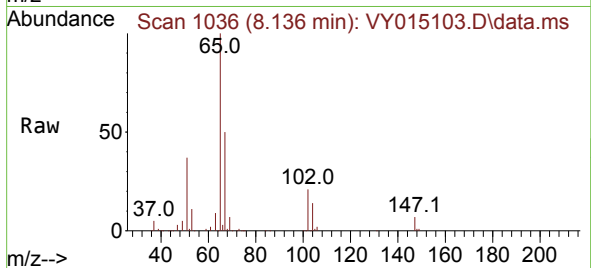
Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

Instrument :

MSVOA_Y

ClientSampleId :

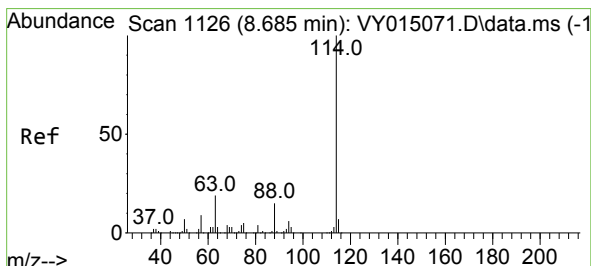
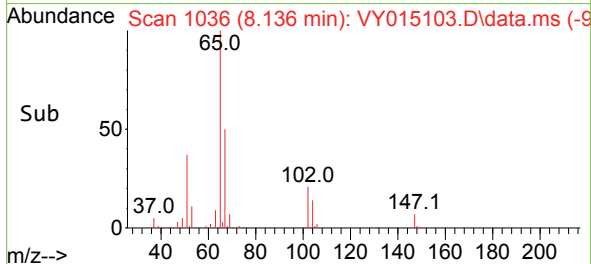
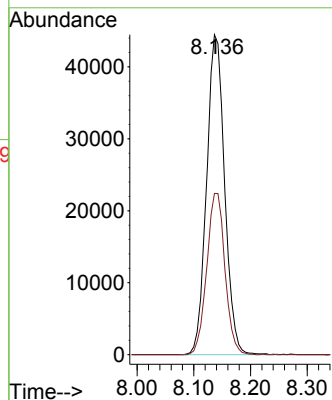


Tgt Ion: 65 Resp: 98226

Ion Ratio Lower Upper

65 100

67 50.9 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

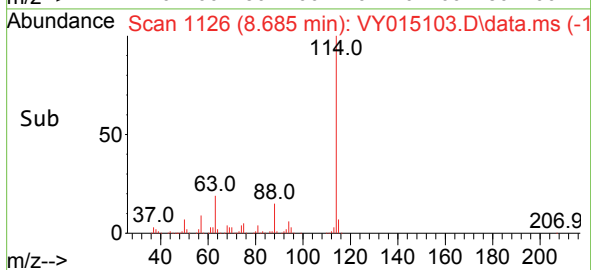
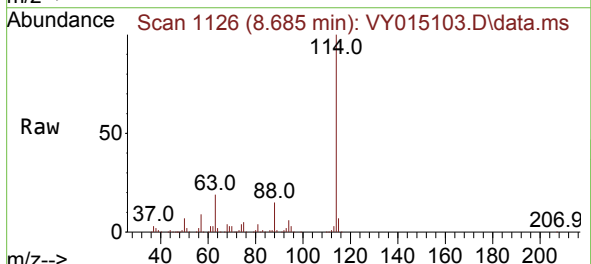
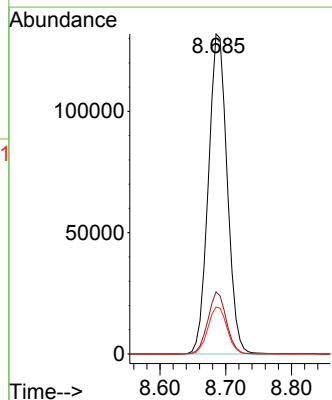
Tgt Ion:114 Resp: 262745

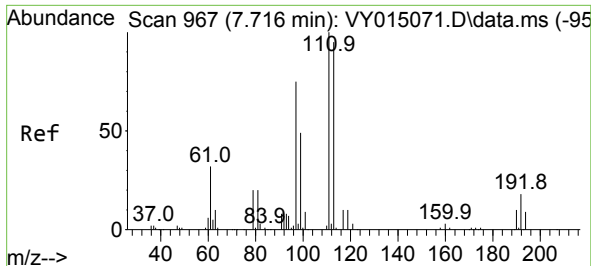
Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

88 14.6 0.0 30.6

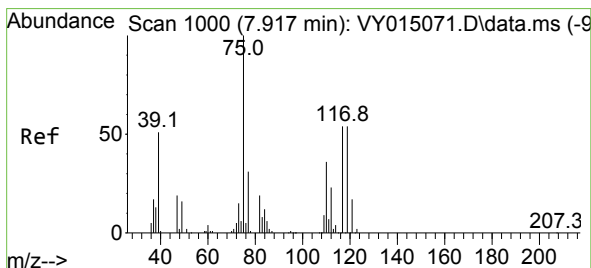
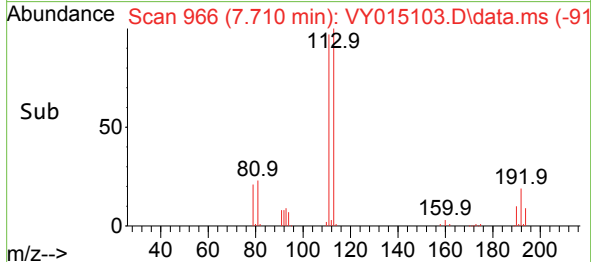
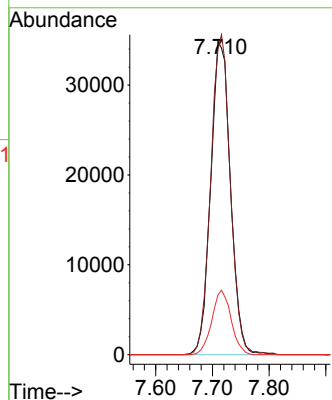
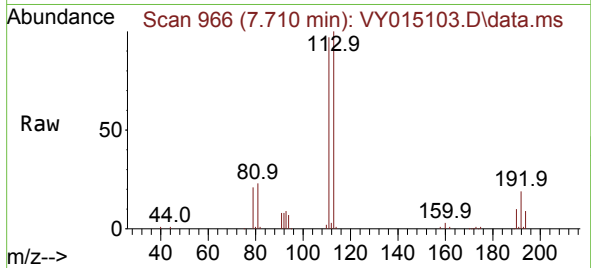




#35
Dibromofluoromethane
Concen: 49.986 ug/l
RT: 7.710 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

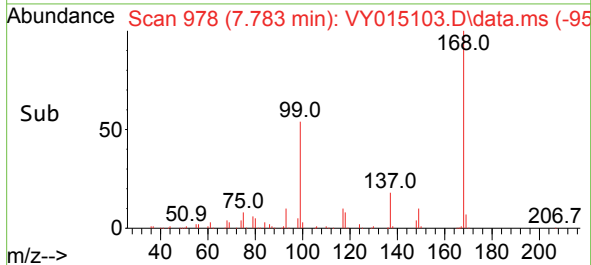
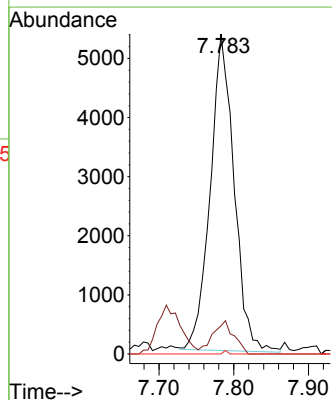
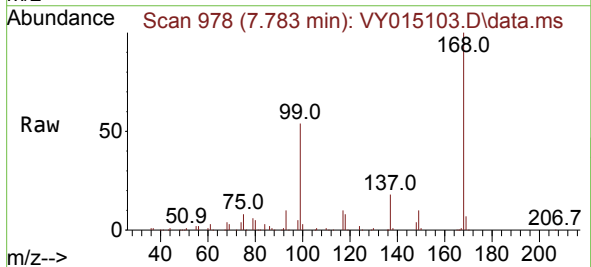
Instrument :
MSVOA_Y
ClientSampleId :

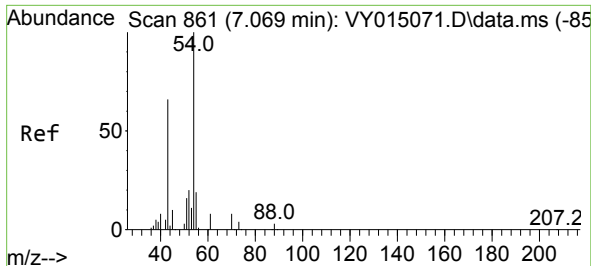
Tgt Ion:113 Resp: 84493
Ion Ratio Lower Upper
113 100
111 101.3 81.3 121.9
192 20.0 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.340 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

Tgt Ion: 75 Resp: 11857
Ion Ratio Lower Upper
75 100
110 9.3 17.8 53.5#
77 0.2 24.4 36.6#





#37

Ethyl Acetate

Concen: 5.654 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.079 min

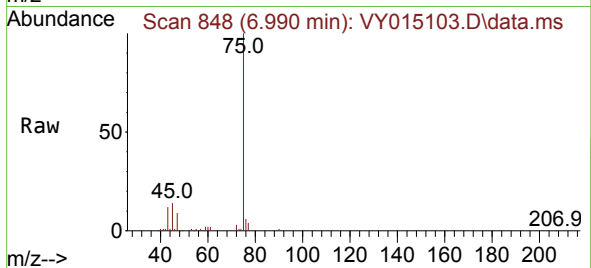
Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

Instrument :

MSVOA_Y

ClientSampleId :



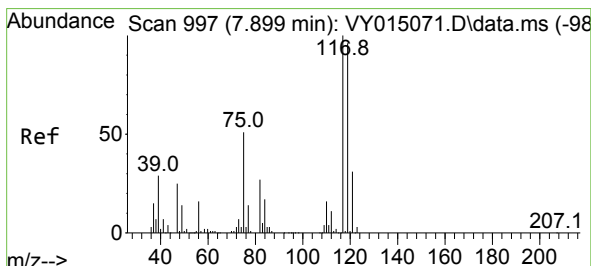
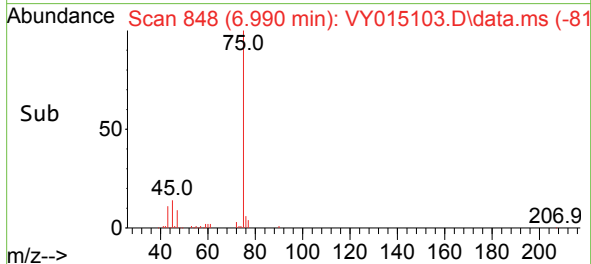
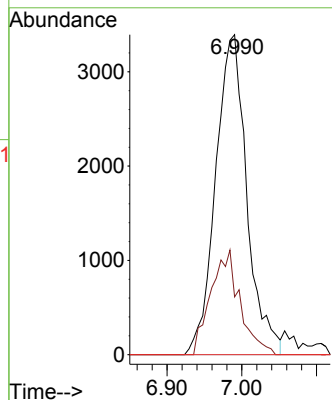
Tgt Ion: 43 Resp: 9856

Ion Ratio Lower Upper

43 100

61 30.6 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 6.868 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

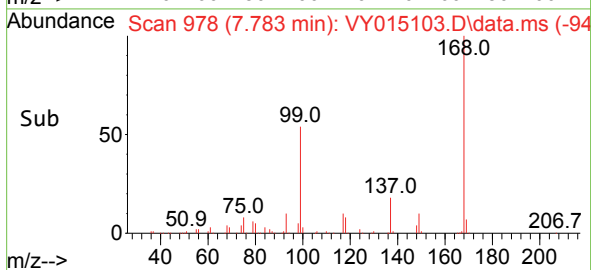
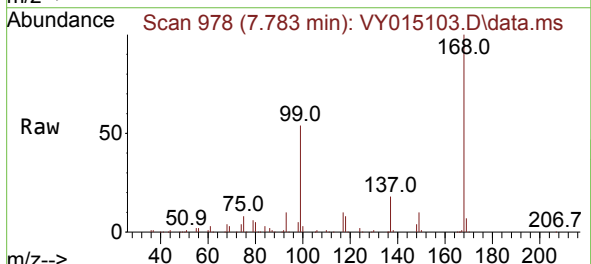
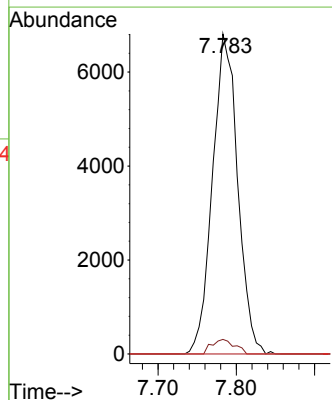
Tgt Ion: 117 Resp: 15201

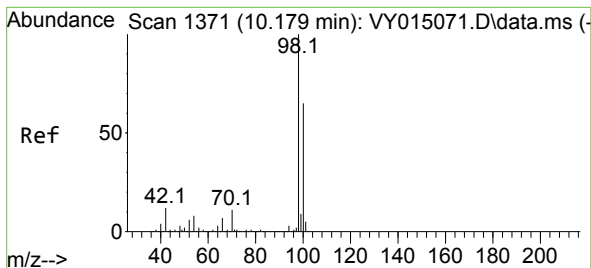
Ion Ratio Lower Upper

117 100

119 4.6 76.4 114.6#

121 0.0 25.8 38.6#

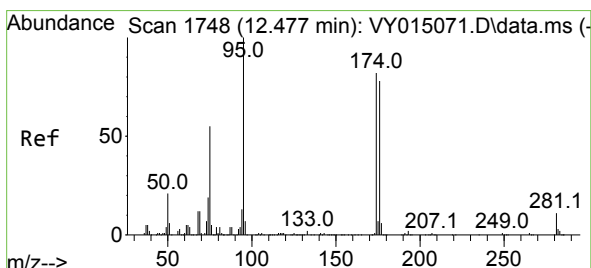
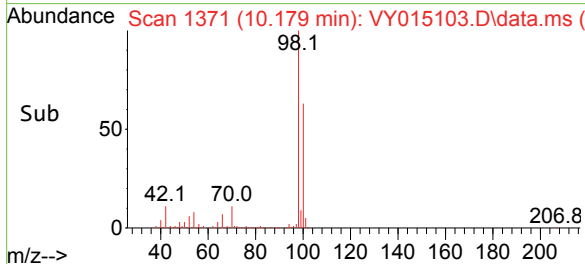
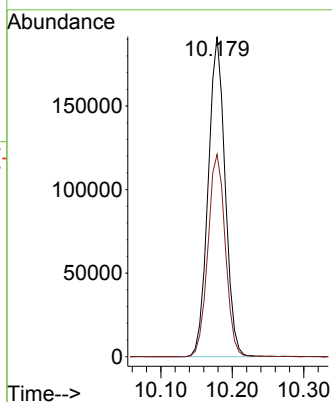
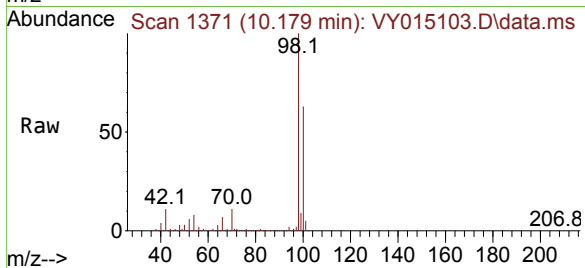




#50
Toluene-d8
Concen: 49.975 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

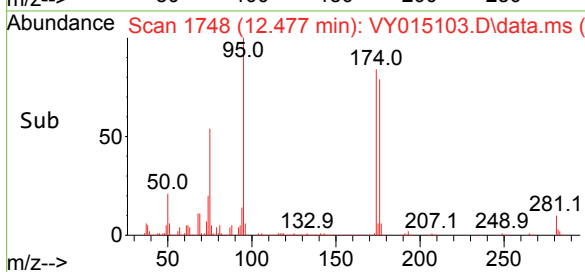
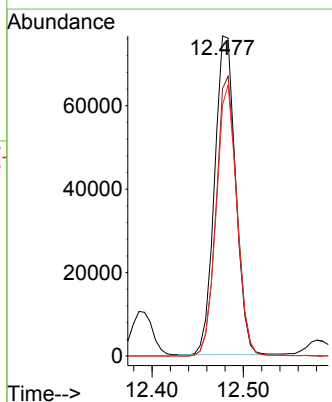
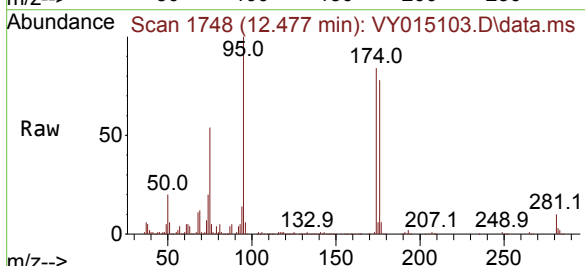
Instrument :
MSVOA_Y
ClientSampleId :

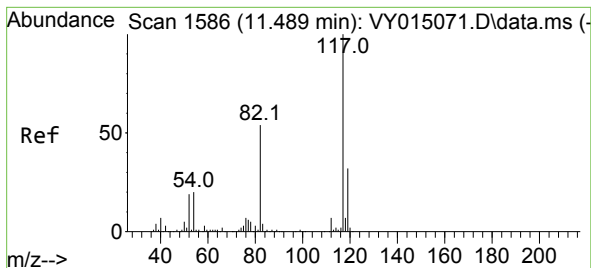
Tgt Ion: 98 Resp: 314459
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 53.135 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

Tgt Ion: 95 Resp: 122119
Ion Ratio Lower Upper
95 100
174 86.7 0.0 178.2
176 83.4 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

Instrument :

MSVOA_Y

ClientSampleId :

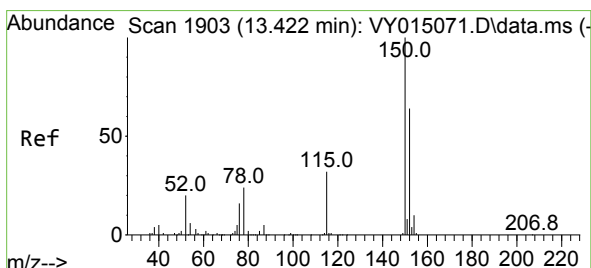
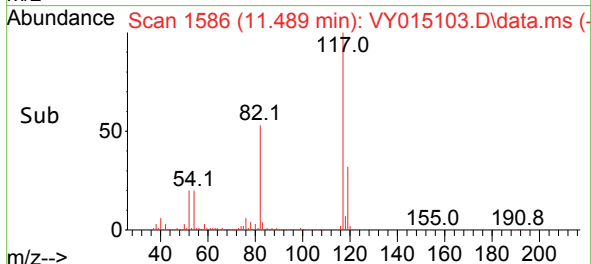
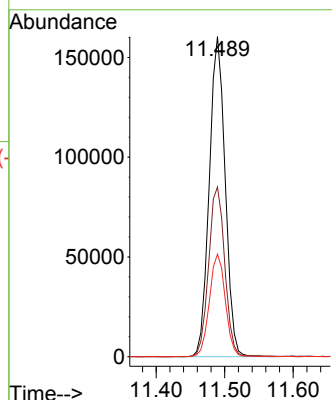
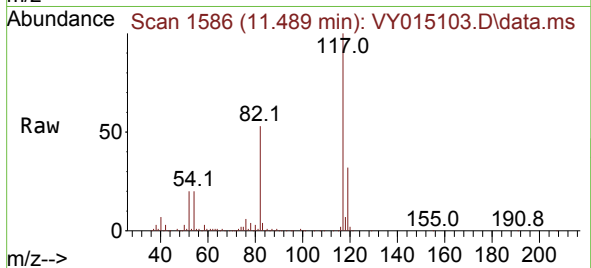
Tgt Ion:117 Resp: 259126

Ion Ratio Lower Upper

117 100

82 53.0 43.4 65.0

119 32.0 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

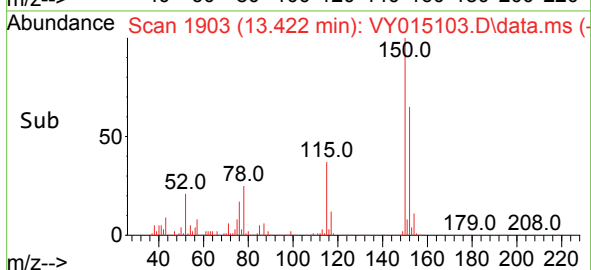
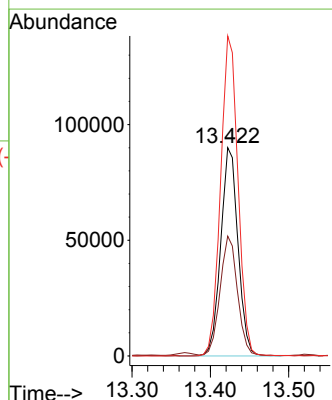
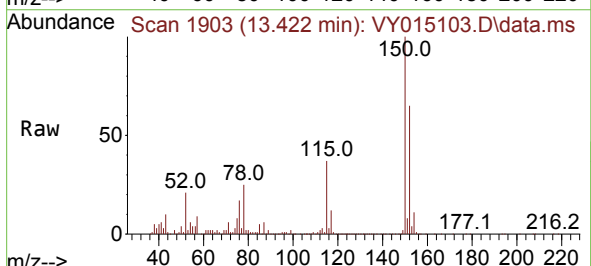
Tgt Ion:152 Resp: 138260

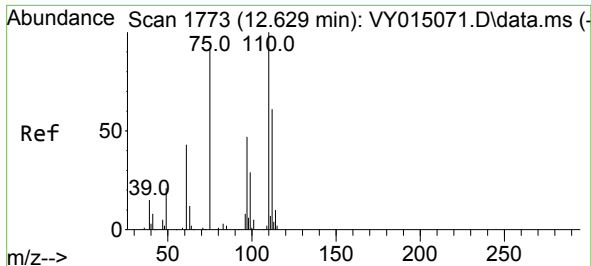
Ion Ratio Lower Upper

152 100

115 57.7 28.8 86.5

150 154.7 0.0 348.8

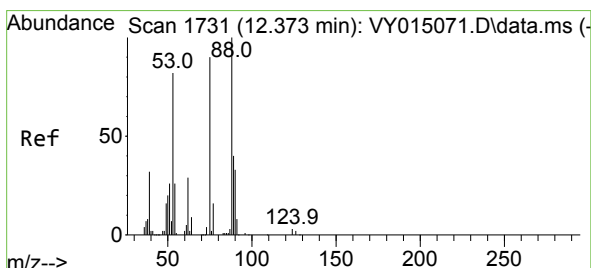
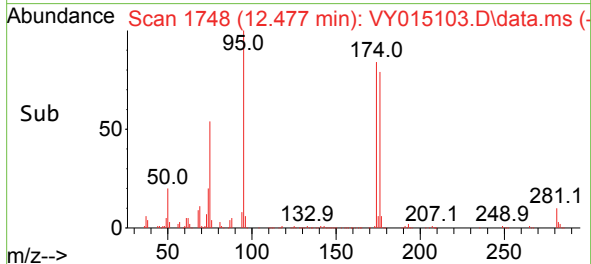
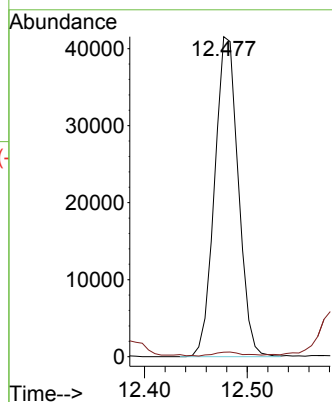
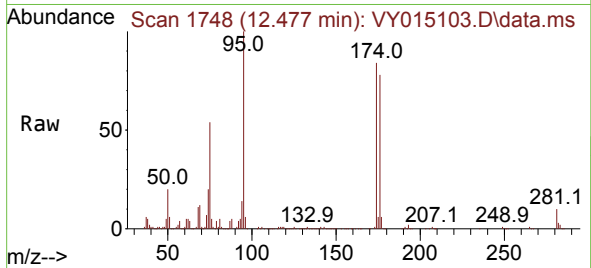




#76
1,2,3-Trichloropropane
Concen: 39.485 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

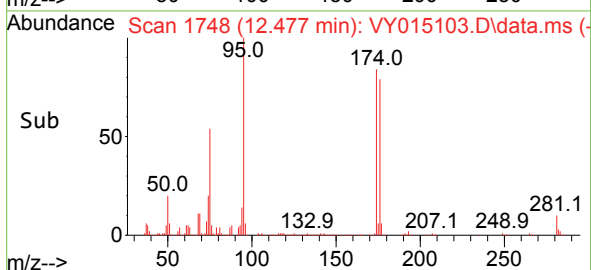
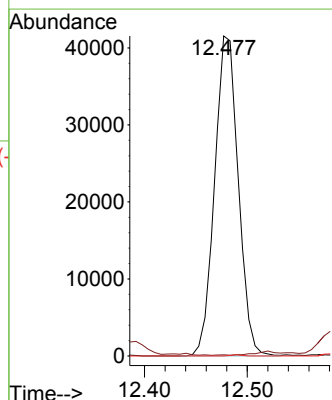
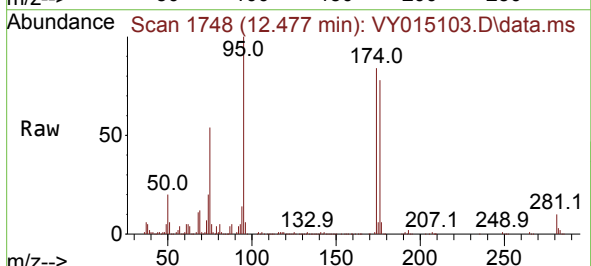
Instrument :
MSVOA_Y
ClientSampleId :

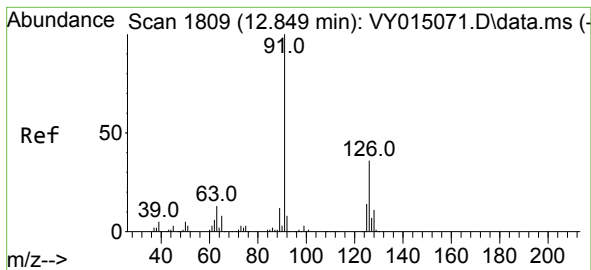
Tgt Ion: 75 Resp: 66325
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 86.728 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

Tgt Ion: 75 Resp: 66325
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.2 37.4 56.0#

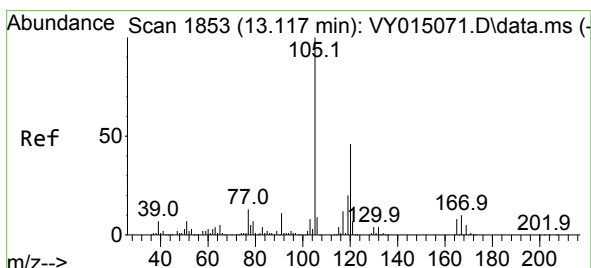
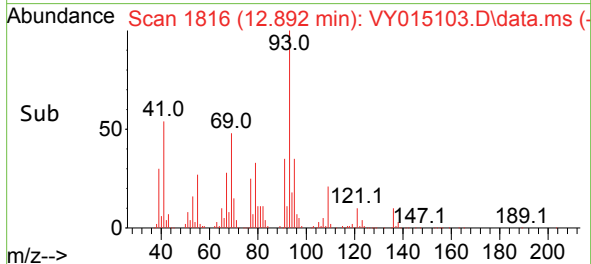
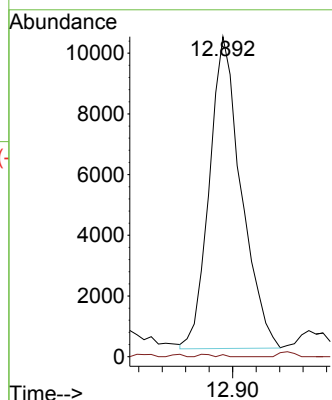
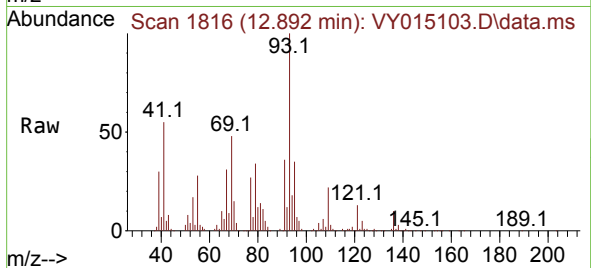




#82
4-Chlorotoluene
Concen: 3.074 ug/l
RT: 12.892 min Scan# 1816
Delta R.T. 0.037 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

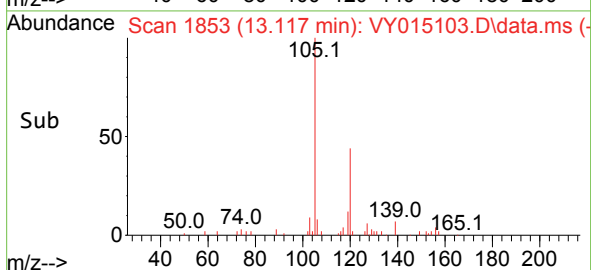
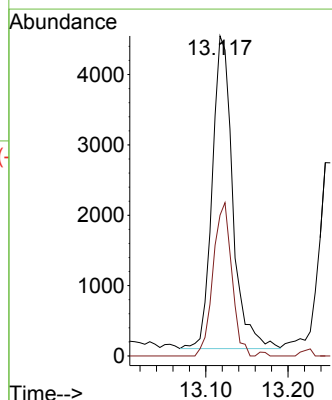
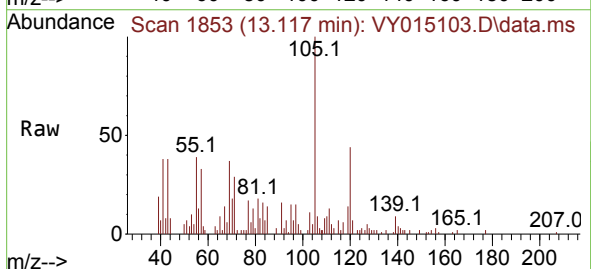
Instrument :
MSVOA_Y
ClientSampleId :

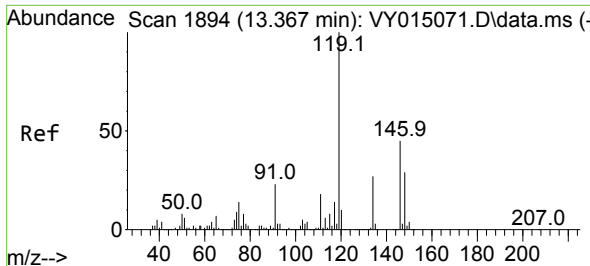
Tgt Ion: 91 Resp: 19342
Ion Ratio Lower Upper
91 100
126 0.4 17.2 51.6#



#84
1,2,4-Trimethylbenzene
Concen: 1.041 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

Tgt Ion: 105 Resp: 7708
Ion Ratio Lower Upper
105 100
120 44.6 22.2 66.6

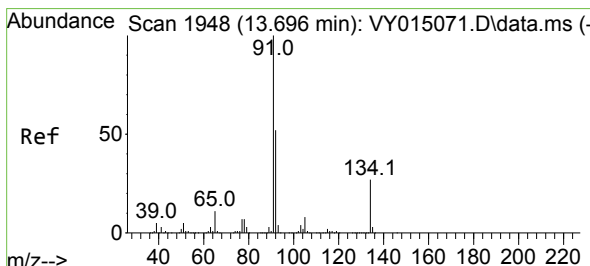
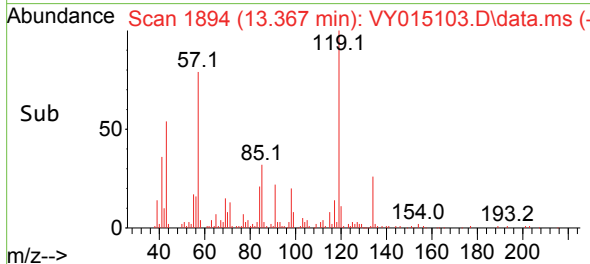
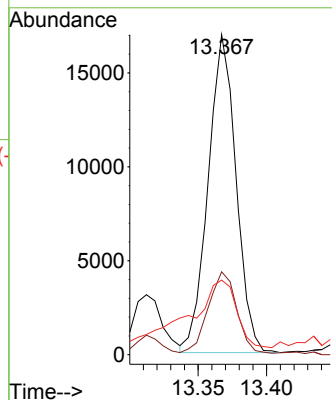
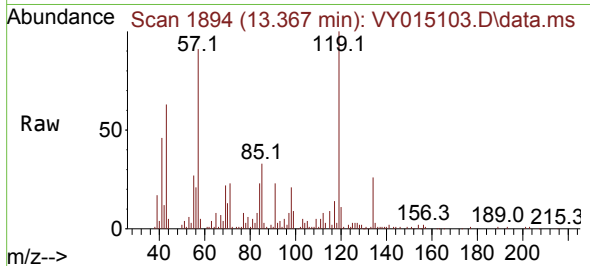




#86
p-Isopropyltoluene
Concen: 2.916 ug/l
RT: 13.367 min Scan# 119
Delta R.T. 0.000 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

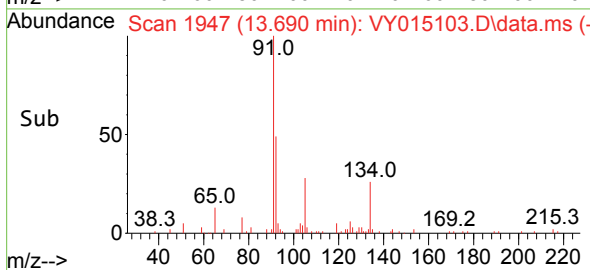
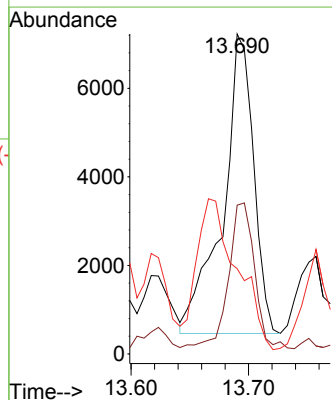
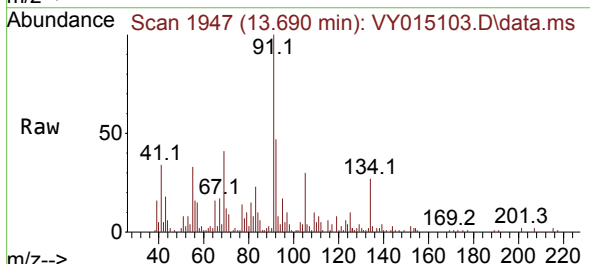
Instrument :
MSVOA_Y
ClientSampleId :

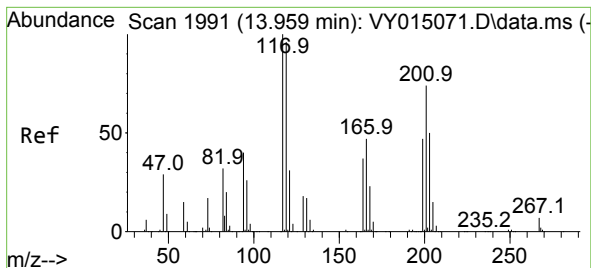
Tgt Ion:119 Resp: 24009
Ion Ratio Lower Upper
119 100
134 26.0 13.3 39.8
91 37.6 12.4 37.4#



#89
n-Butylbenzene
Concen: 1.585 ug/l
RT: 13.690 min Scan# 1947
Delta R.T. -0.006 min
Lab File: VY015103.D
Acq: 15 Aug 2023 15:06

Tgt Ion: 91 Resp: 12304
Ion Ratio Lower Upper
91 100
92 45.9 25.4 76.0
134 0.0 12.6 37.6#





#90

Hexachloroethane

Concen: 1.693 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

Instrument :

MSVOA_Y

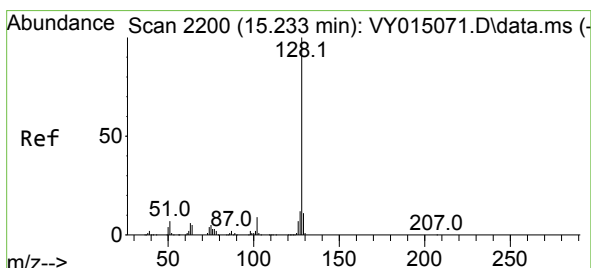
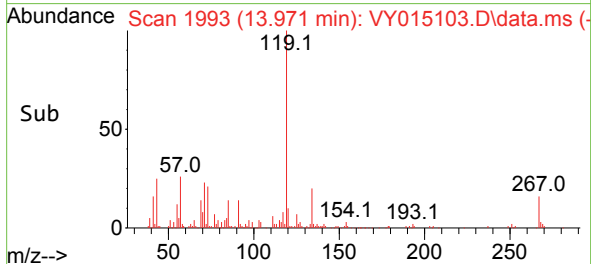
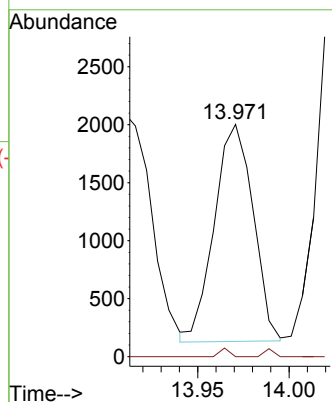
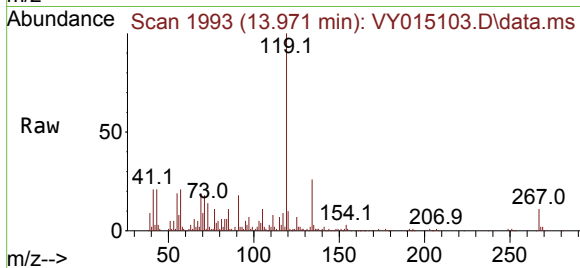
ClientSampleId :

Tgt Ion:117 Resp: 2766

Ion Ratio Lower Upper

117 100

201 1.0 41.6 124.8#



#95

Naphthalene

Concen: 1.925 ug/l

RT: 15.239 min Scan# 2201

Delta R.T. 0.006 min

Lab File: VY015103.D

Acq: 15 Aug 2023 15:06

Tgt Ion:128 Resp: 12362

Ion Ratio Lower Upper

128 100

127 20.4 10.8 16.2#

129 13.4 8.6 13.0#

