

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032524\
 Data File : VY017753.D
 Acq On : 25 Mar 2024 15:52
 Operator : SY/MD
 Sample : P1861-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-03252024

Quant Time: Mar 26 03:35:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032224S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 04:03:52 2024
 Response via : Initial Calibration

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

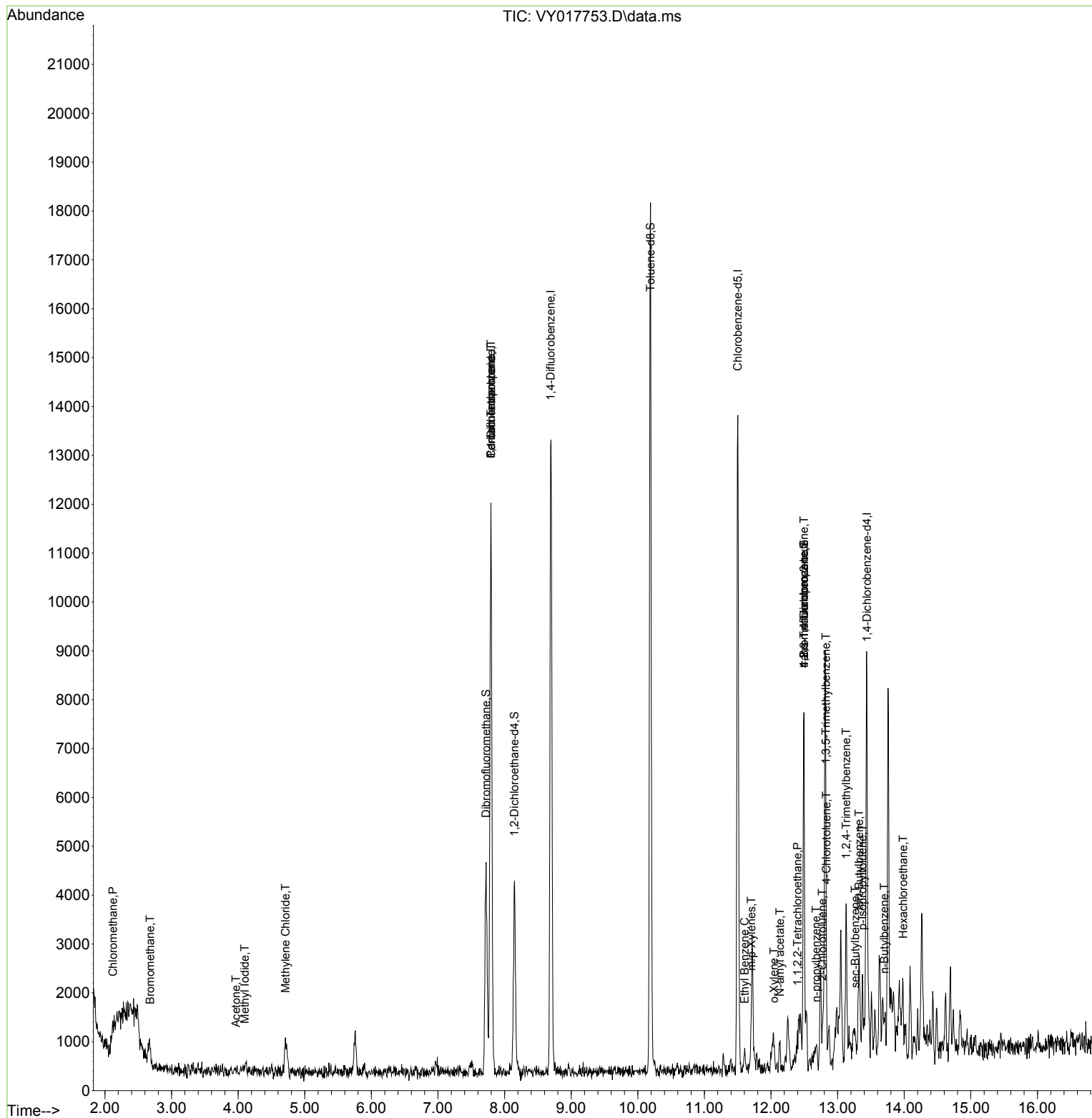
Internal Standards						
1) Pentafluorobenzene	7.795	168	9600	50.000	ug/l	-0.02
34) 1,4-Difluorobenzene	8.691	114	12588	50.000	ug/l	-0.02
63) Chlorobenzene-d5	11.501	117	8488	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.440	152	1935	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.148	65	3143	37.581	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	75.160%		
35) Dibromofluoromethane	7.722	113	3039	40.388	ug/l	-0.02
Spiked Amount 50.000	Range 54 - 147		Recovery =	80.780%		
50) Toluene-d8	10.191	98	13281	46.117	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.240%		
62) 4-Bromofluorobenzene	12.495	95	2223	25.707	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	51.420%		
Target Compounds						Qvalue
3) Chloromethane	2.119	50	141	1.313	ug/l #	43
5) Bromomethane	2.680	94	231	2.279	ug/l #	63
10) Methyl Iodide	4.100	142	339	2.847	ug/l #	62
16) Acetone	3.966	43	19	1.299	ug/l #	36
20) Methylene Chloride	4.710	84	319	2.999	ug/l	90
36) 1,1-Dichloropropene	7.795	75	646	5.557	ug/l #	40
38) Carbon Tetrachloride	7.795	117	926	7.608	ug/l #	13
67) Ethyl Benzene	11.605	91	321	1.023	ug/l #	84
68) m/p-Xylenes	11.703	106	446	3.664	ug/l	95
69) o-Xylene	12.044	106	212	1.908	ug/l	53
74) N-amyl acetate	12.136	43	139	6.729	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	12.398	83	41	1.822	ug/l #	1
76) 1,2,3-Trichloropropane	12.495	75	1132	63.351	ug/l #	100
78) n-propylbenzene	12.678	91	620	3.505	ug/l	91
79) 2-Chlorotoluene	12.770	91	114	1.175	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.824	105	725	6.339	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.495	75	1132	146.387	ug/l #	16
82) 4-Chlorotoluene	12.831	91	131	1.316	ug/l #	39
83) tert-Butylbenzene	13.324	119	317	3.063	ug/l	69
84) 1,2,4-Trimethylbenzene	13.129	105	1759	15.687	ug/l	98
85) sec-Butylbenzene	13.263	105	450	2.901	ug/l #	69
86) p-Isopropyltoluene	13.373	119	150	1.165	ug/l #	65
89) n-Butylbenzene	13.702	91	695	5.964	ug/l #	61
90) Hexachloroethane	13.983	117	32	1.218	ug/l #	12

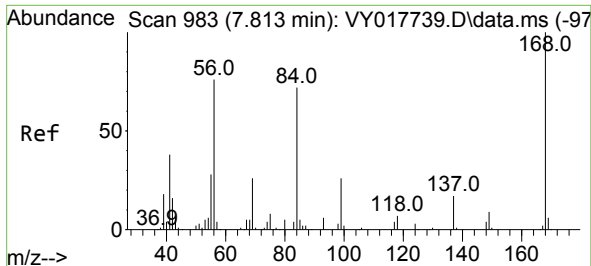
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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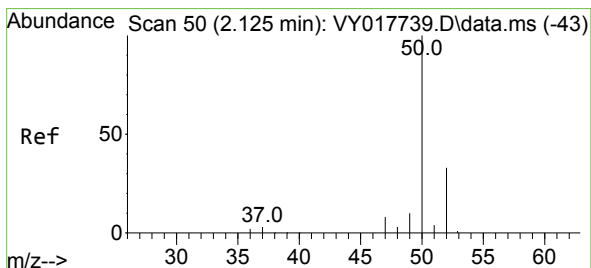
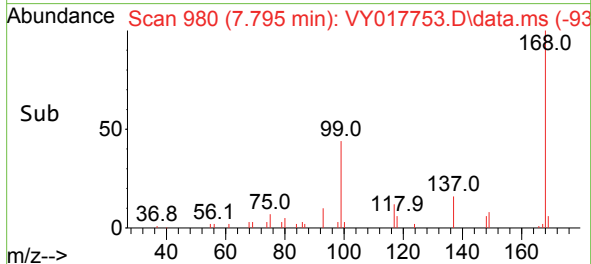
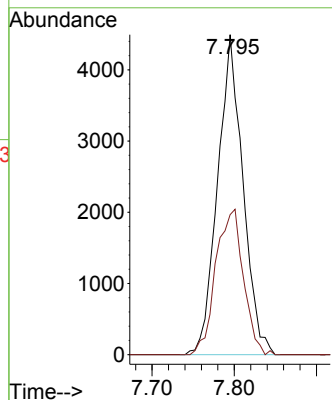
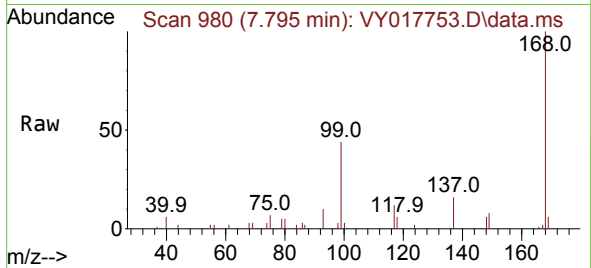




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.018 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

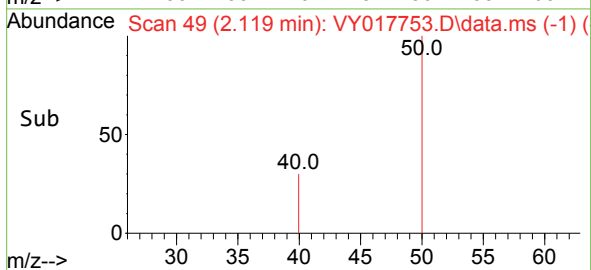
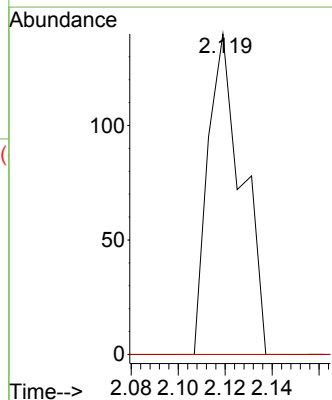
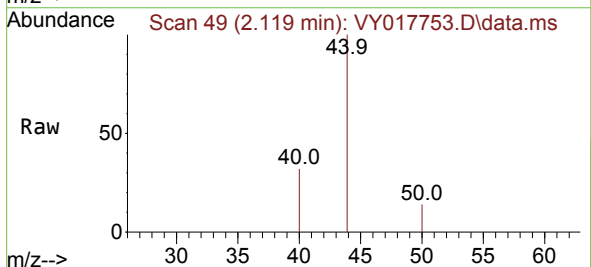
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-03252024

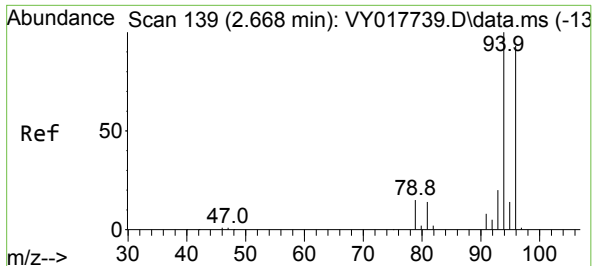
Tgt Ion:168 Resp: 9600
Ion Ratio Lower Upper
168 100
99 43.8 39.1 58.7



#3
Chloromethane
Concen: 1.313 ug/l
RT: 2.119 min Scan# 49
Delta R.T. -0.006 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 50 Resp: 141
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#

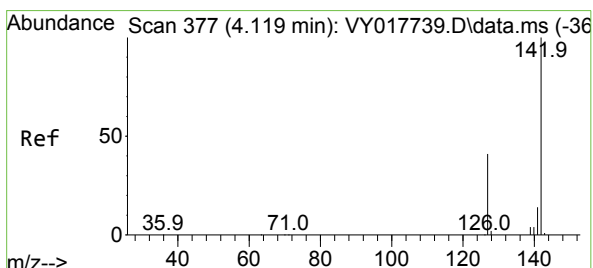
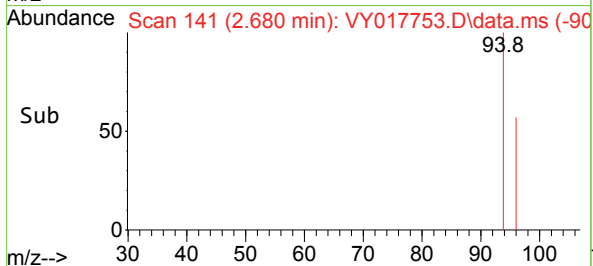
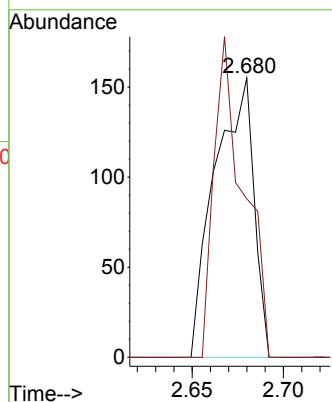
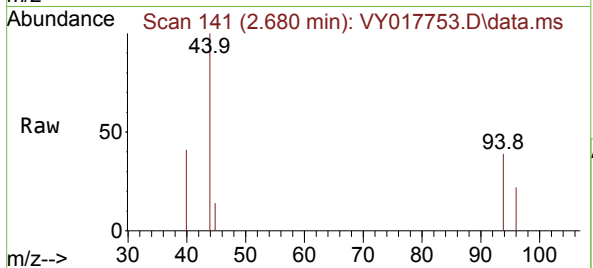




#5
Bromomethane
Concen: 2.279 ug/l
RT: 2.680 min Scan# 141
Delta R.T. 0.012 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

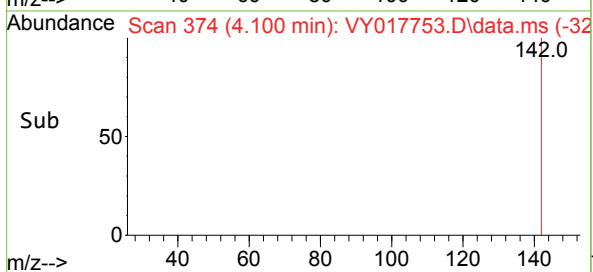
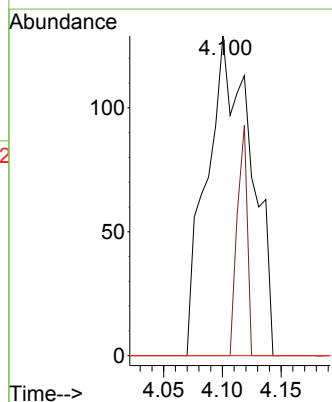
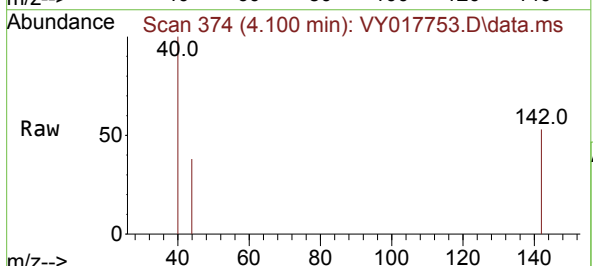
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-03252024

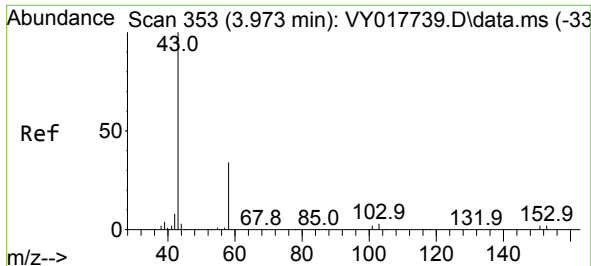
Tgt Ion: 94 Resp: 231
Ion Ratio Lower Upper
94 100
96 56.8 74.1 111.1#



#10
Methyl Iodide
Concen: 2.847 ug/l
RT: 4.100 min Scan# 374
Delta R.T. -0.019 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 142 Resp: 339
Ion Ratio Lower Upper
142 100
127 16.2 32.8 49.2#
141 0.0 11.4 17.2#

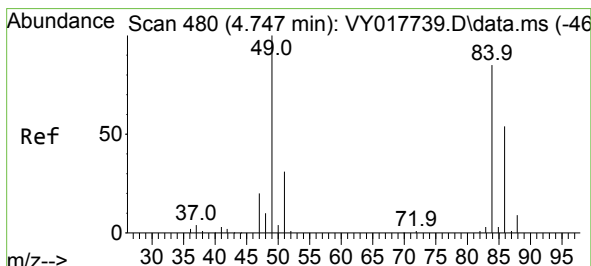
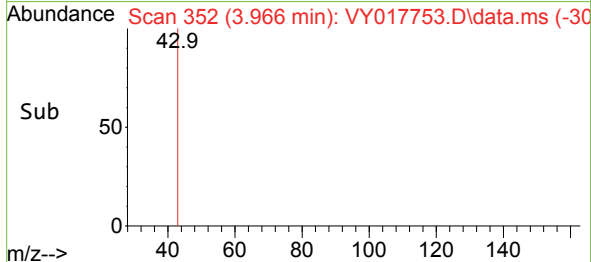
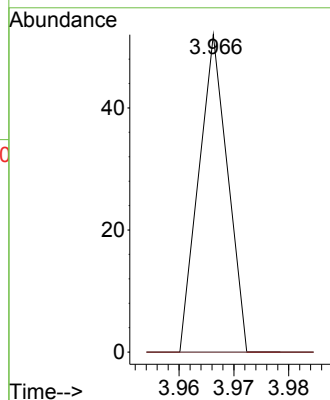
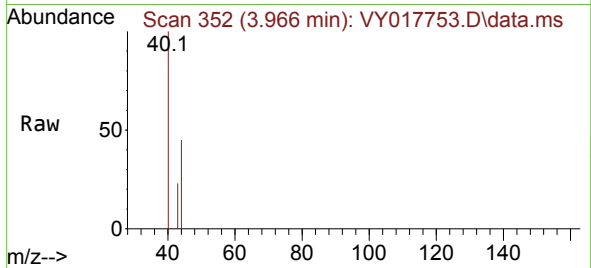




#16
Acetone
Concen: 1.299 ug/l
RT: 3.966 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

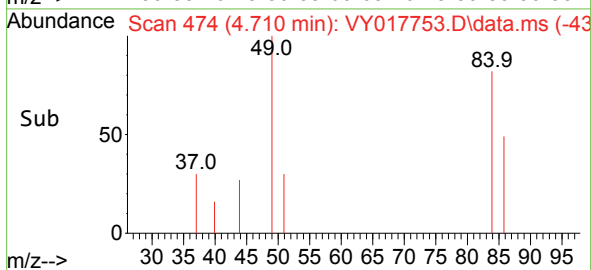
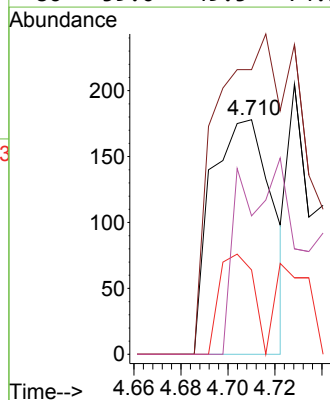
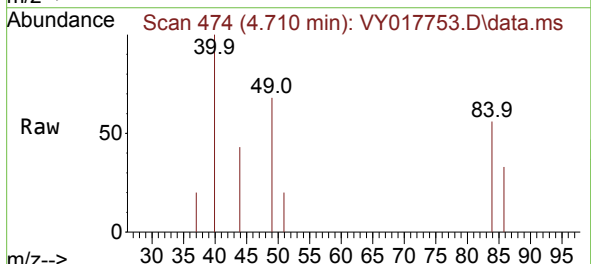
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-03252024

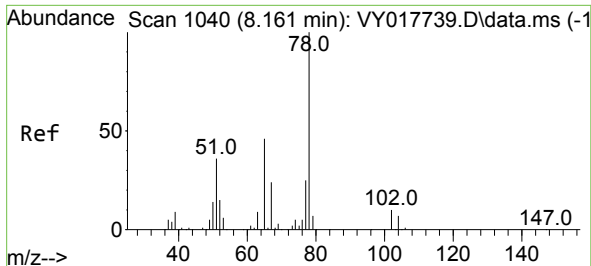
Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#



#20
Methylene Chloride
Concen: 2.999 ug/l
RT: 4.710 min Scan# 474
Delta R.T. -0.037 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 84 Resp: 319
Ion Ratio Lower Upper
84 100
49 121.3 84.4 126.6
51 36.0 26.0 39.0
86 59.0 49.5 74.3





#33

1,2-Dichloroethane-d4

Concen: 37.581 ug/l

RT: 8.148 min Scan# 110

Delta R.T. -0.012 min

Lab File: VY017753.D

Acq: 25 Mar 2024 15:52

Instrument :

MSVOA_Y

ClientSampleId :

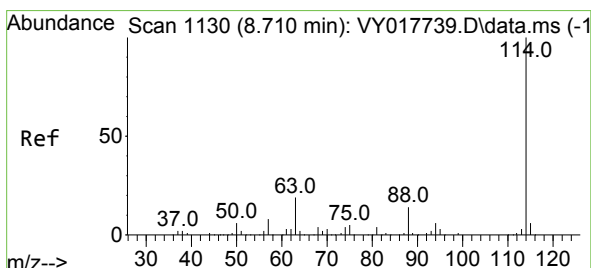
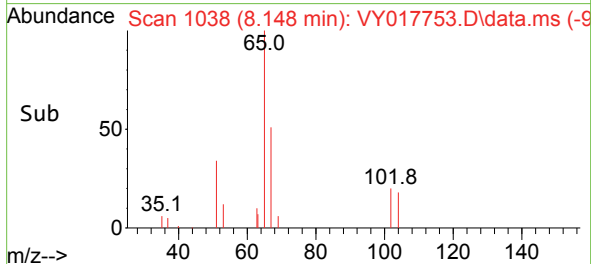
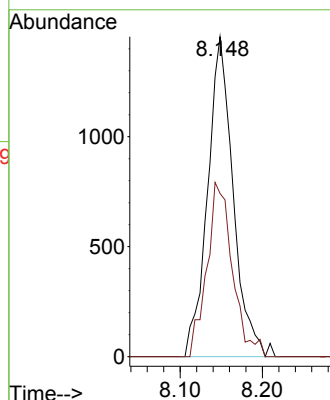
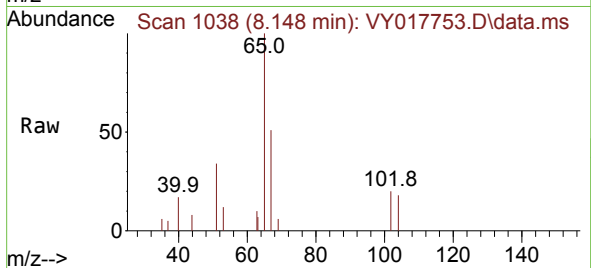
HD-02-03252024

Tgt Ion: 65 Resp: 3143

Ion Ratio Lower Upper

65 100

67 54.5 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.019 min

Lab File: VY017753.D

Acq: 25 Mar 2024 15:52

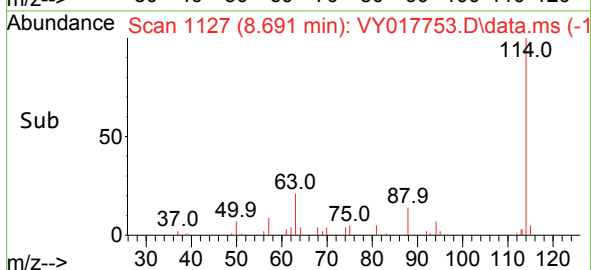
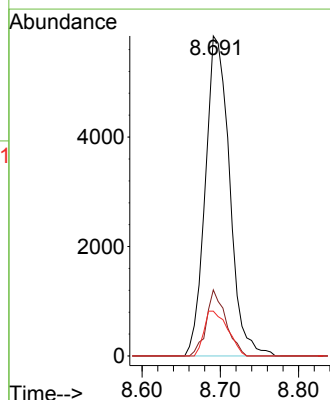
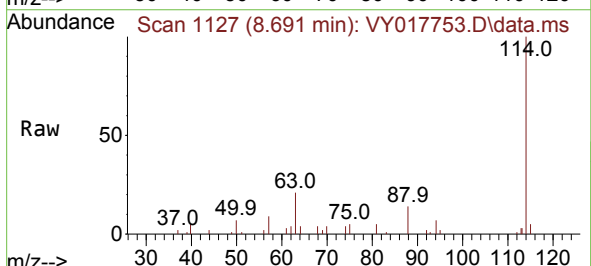
Tgt Ion: 114 Resp: 12588

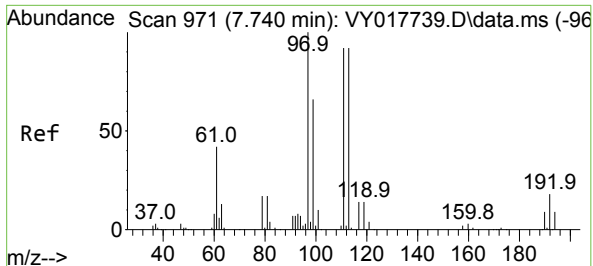
Ion Ratio Lower Upper

114 100

63 20.7 0.0 35.0

88 14.0 0.0 27.2

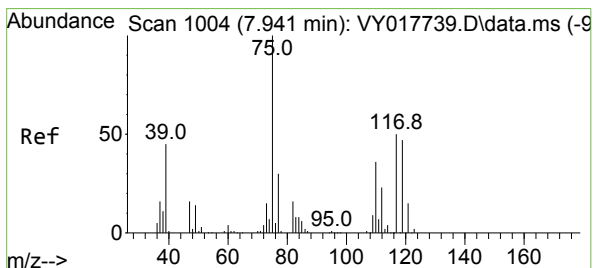
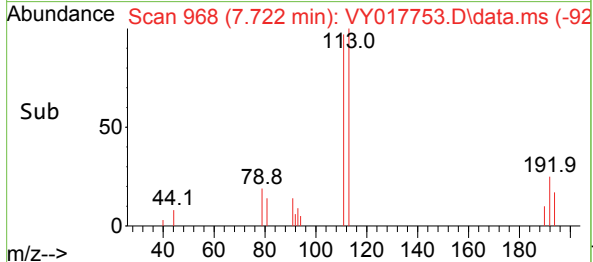
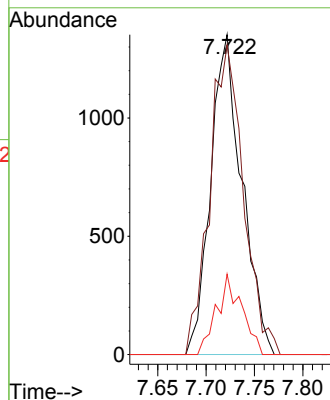
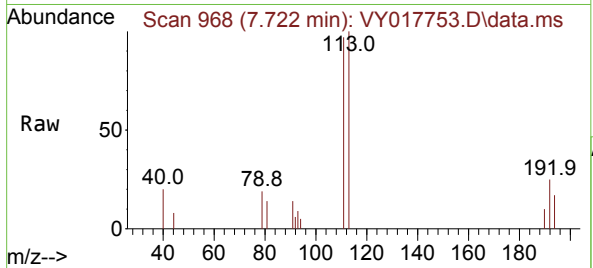




#35
Dibromofluoromethane
Concen: 40.388 ug/l
RT: 7.722 min Scan# 91
Delta R.T. -0.019 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

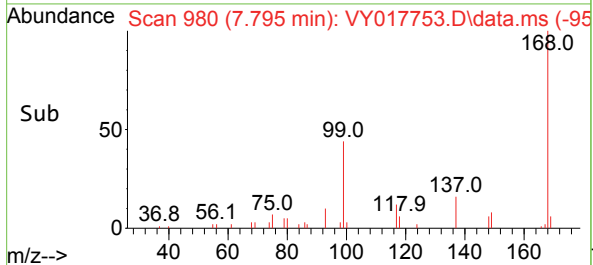
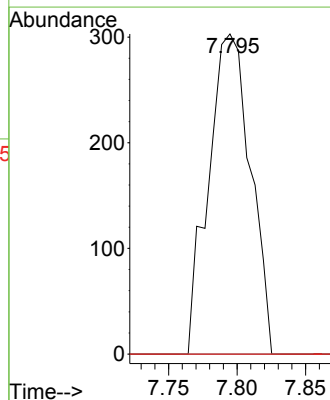
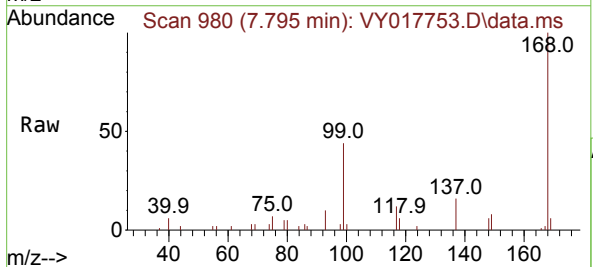
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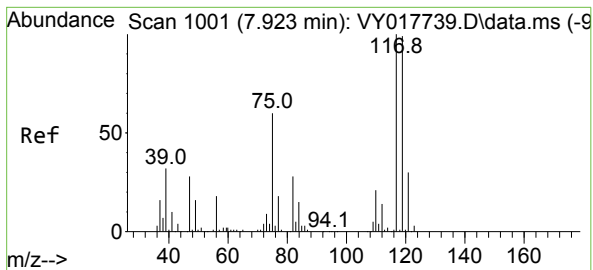
Tgt Ion:113 Resp: 3039
Ion Ratio Lower Upper
113 100
111 104.8 82.2 123.4
192 20.2 15.9 23.9



#36
1,1-Dichloropropene
Concen: 5.557 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.147 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 75 Resp: 646
Ion Ratio Lower Upper
75 100
110 0.0 19.0 57.0#
77 0.0 25.3 37.9#

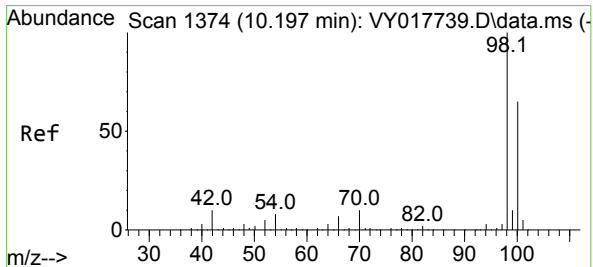
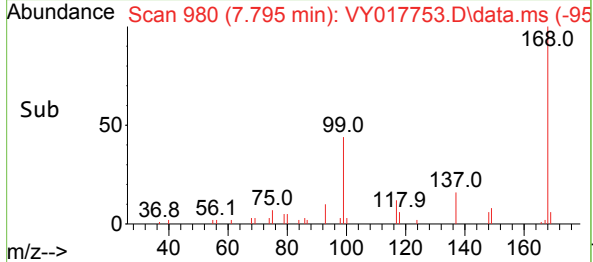
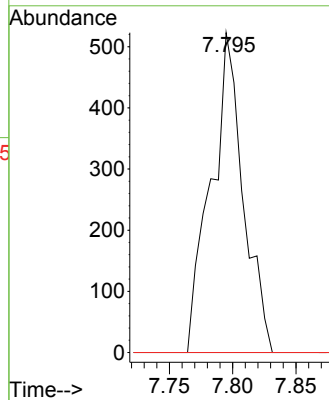
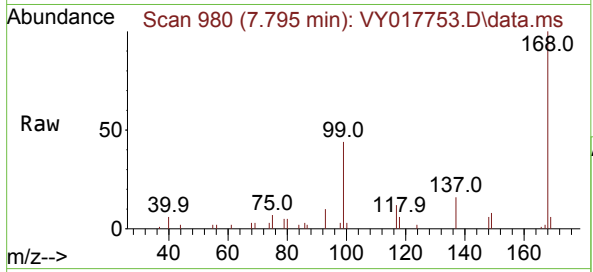




#38
Carbon Tetrachloride
Concen: 7.608 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

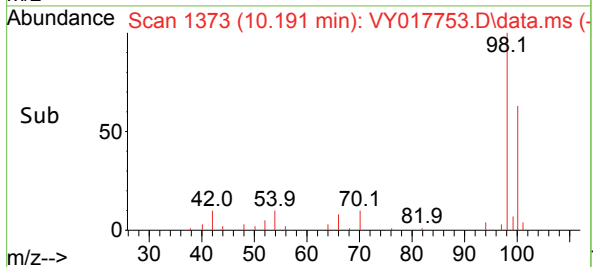
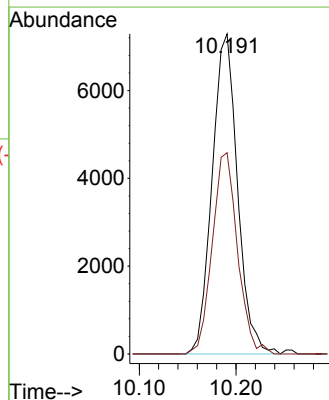
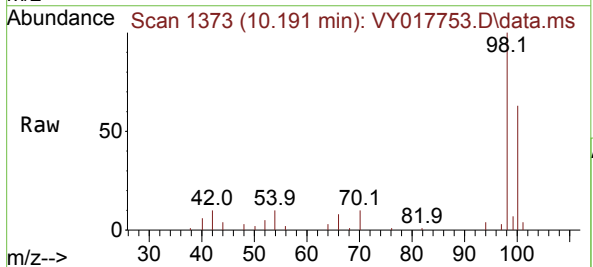
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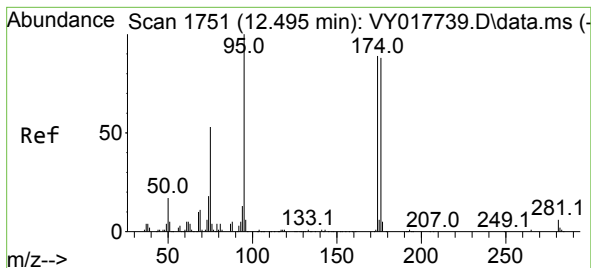
Tgt Ion:117 Resp: 926
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 24.0 36.0#



#50
Toluene-d8
Concen: 46.117 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. -0.006 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 98 Resp: 13281
Ion Ratio Lower Upper
98 100
100 62.6 52.0 78.0

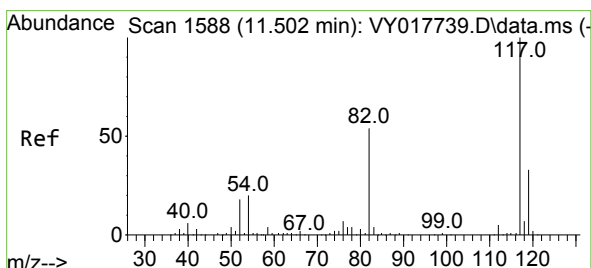
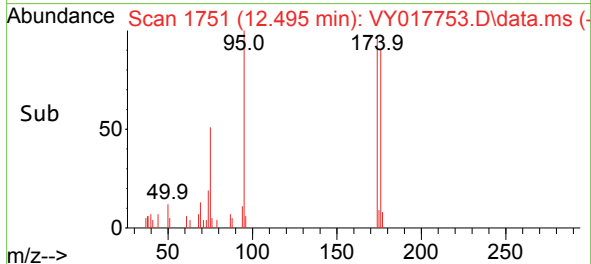
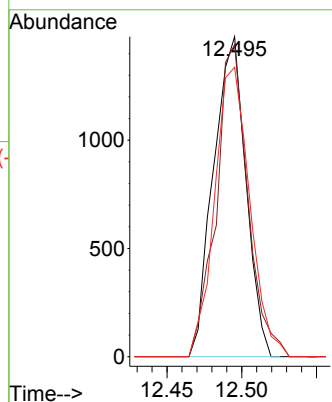
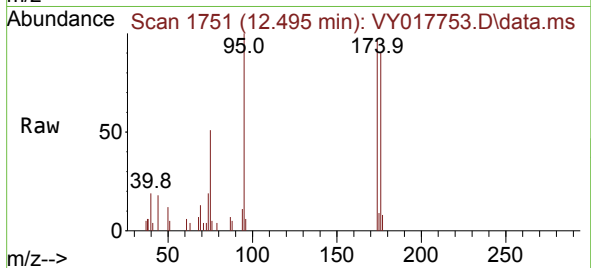




#62
4-Bromofluorobenzene
Concen: 25.707 ug/l
RT: 12.495 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

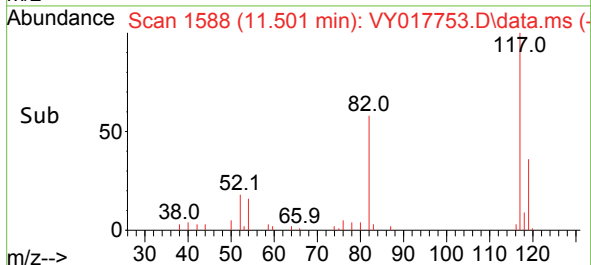
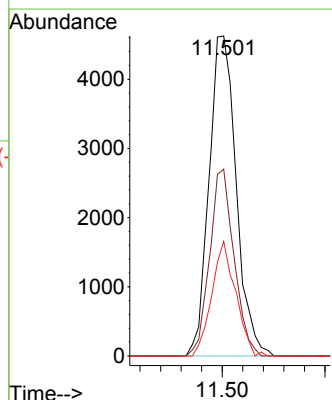
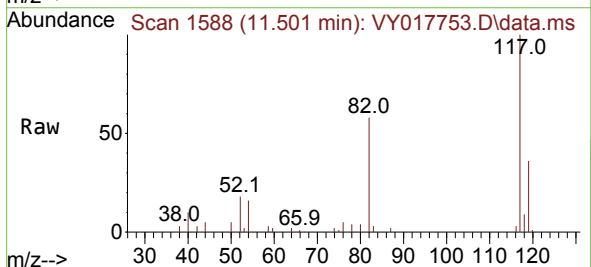
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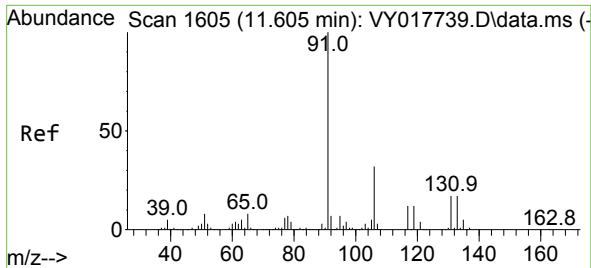
Tgt Ion: 95 Resp: 2223
Ion Ratio Lower Upper
95 100
174 95.7 0.0 175.6
176 98.1 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.501 min Scan# 1588
Delta R.T. -0.000 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 117 Resp: 8488
Ion Ratio Lower Upper
117 100
82 58.4 42.4 63.6
119 35.8 25.9 38.9

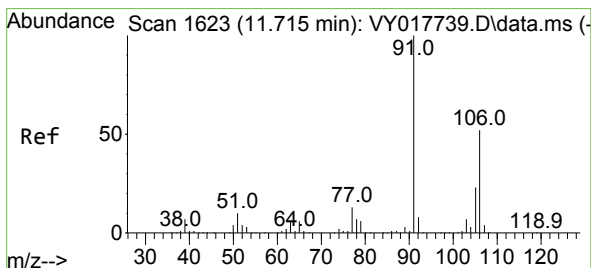
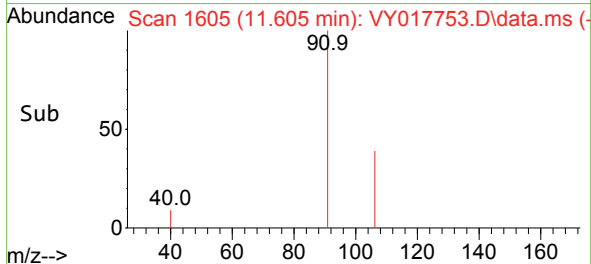
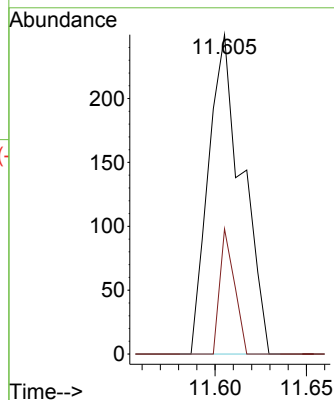
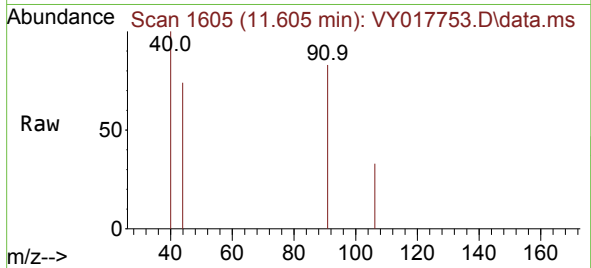




#67
Ethyl Benzene
Concen: 1.023 ug/l
RT: 11.605 min Scan# 1605
Delta R.T. -0.000 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

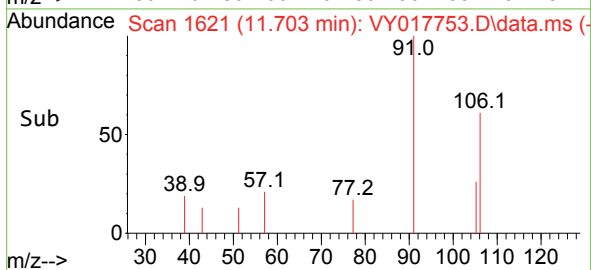
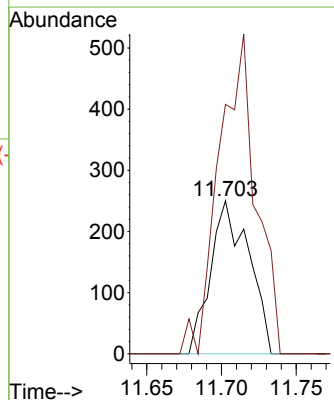
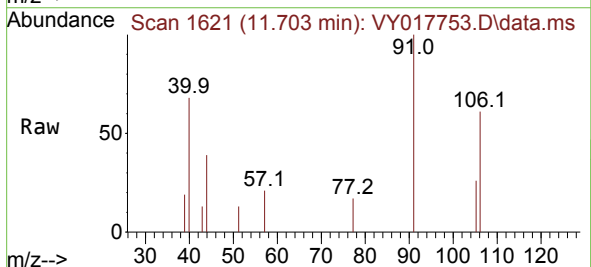
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-03252024

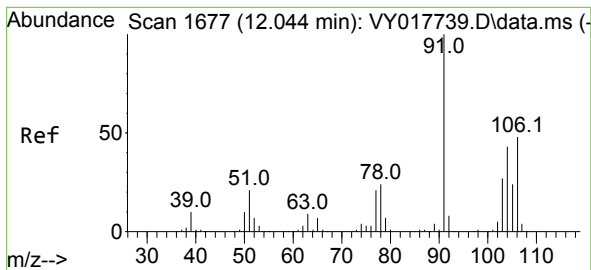
Tgt Ion: 91 Resp: 321
Ion Ratio Lower Upper
91 100
106 39.2 24.5 36.7#



#68
m/p-Xylenes
Concen: 3.664 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. -0.012 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 106 Resp: 446
Ion Ratio Lower Upper
106 100
91 201.8 156.0 234.0





#69

o-Xylene

Concen: 1.908 ug/l

RT: 12.044 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY017753.D

Acq: 25 Mar 2024 15:52

Instrument :

MSVOA_Y

ClientSampleId :

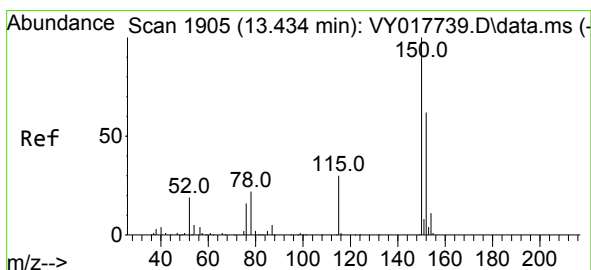
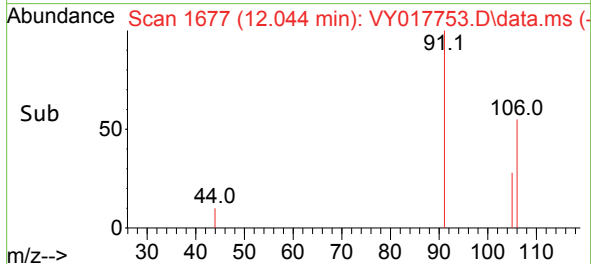
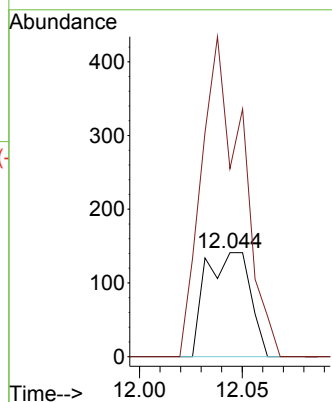
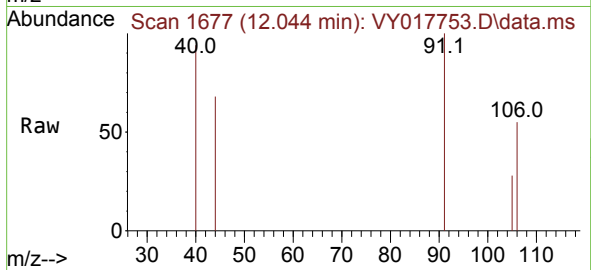
HD-02-03252024

Tgt Ion:106 Resp: 212

Ion Ratio Lower Upper

106 100

91 279.7 103.6 310.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.440 min Scan# 1906

Delta R.T. 0.006 min

Lab File: VY017753.D

Acq: 25 Mar 2024 15:52

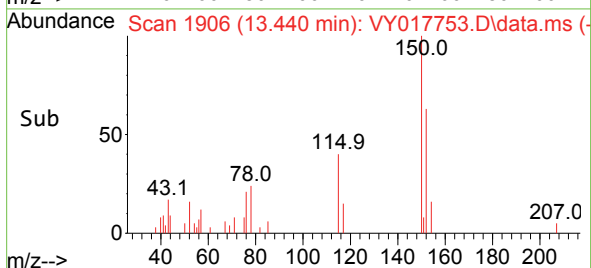
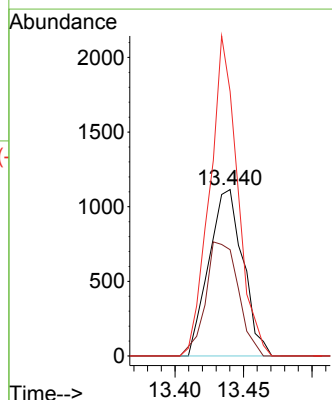
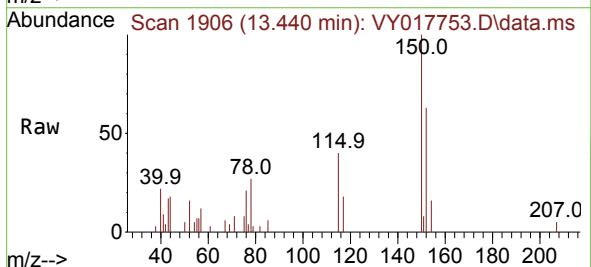
Tgt Ion:152 Resp: 1935

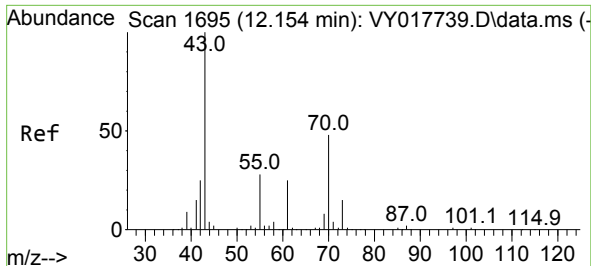
Ion Ratio Lower Upper

152 100

115 65.5 28.2 84.7

150 156.8 0.0 345.6

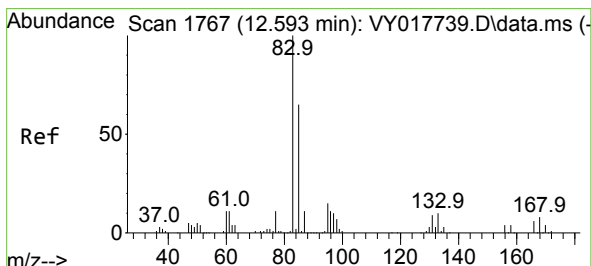
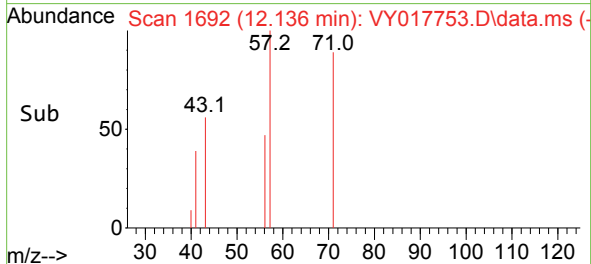
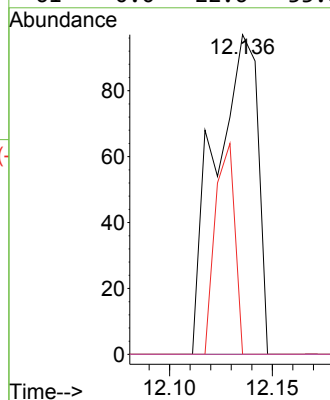
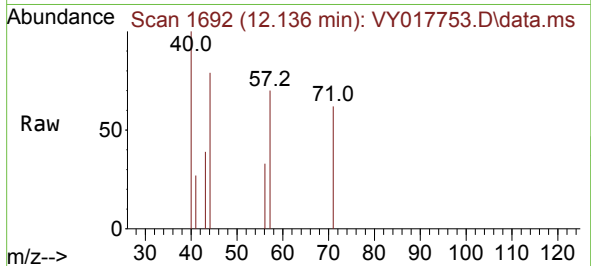




#74
N-amy1 acetate
Concen: 6.729 ug/l
RT: 12.136 min Scan# 1
Delta R.T. -0.018 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

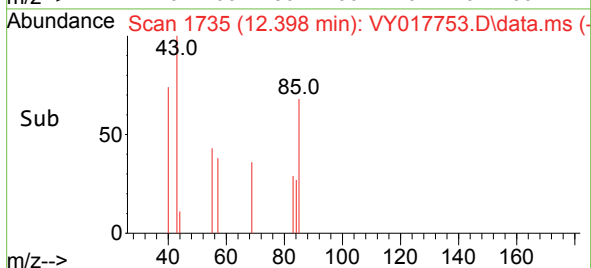
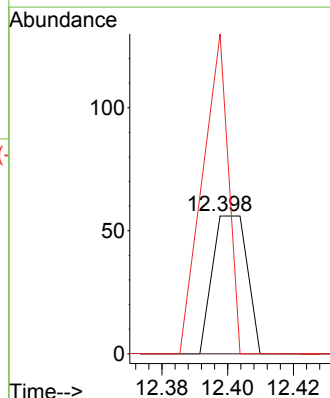
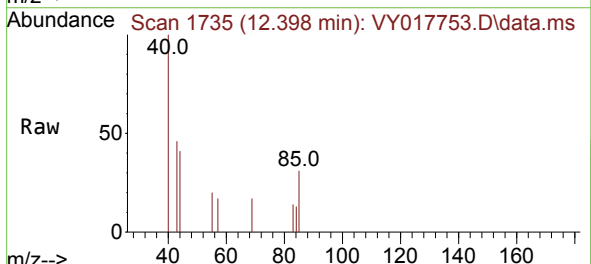
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-03252024

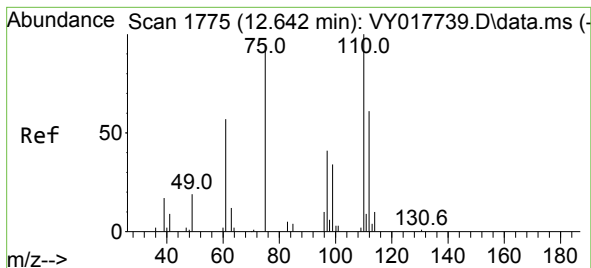
Tgt Ion: 43	Resp:	139
Ion	Ratio	Lower Upper
43	100	
70	0.0	41.4 62.2#
55	30.2	23.3 34.9
61	0.0	22.6 33.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.822 ug/l
RT: 12.398 min Scan# 1735
Delta R.T. -0.195 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 83	Resp:	41
Ion	Ratio	Lower Upper
83	100	
131	0.0	5.0 14.9#
85	173.2	32.0 96.0#





#76

1,2,3-Trichloropropane

Concen: 63.351 ug/l

RT: 12.495 min Scan# 1751

Delta R.T. -0.147 min

Lab File: VY017753.D

Acq: 25 Mar 2024 15:52

Instrument :

MSVOA_Y

ClientSampleId :

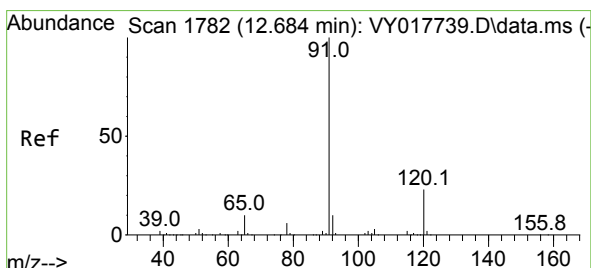
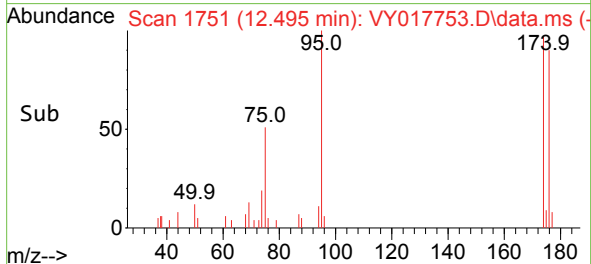
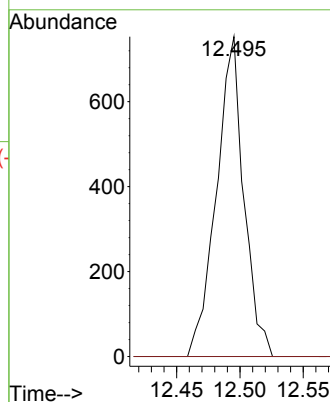
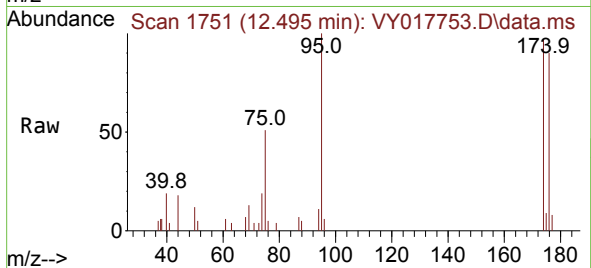
HD-02-03252024

Tgt Ion: 75 Resp: 1132

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#78

n-propylbenzene

Concen: 3.505 ug/l

RT: 12.678 min Scan# 1781

Delta R.T. -0.006 min

Lab File: VY017753.D

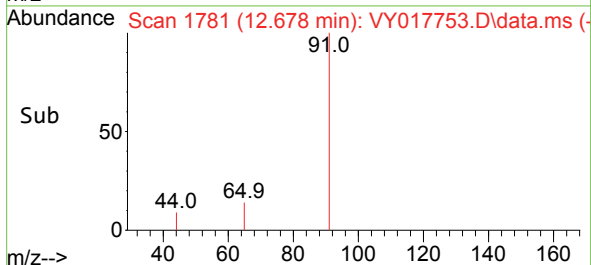
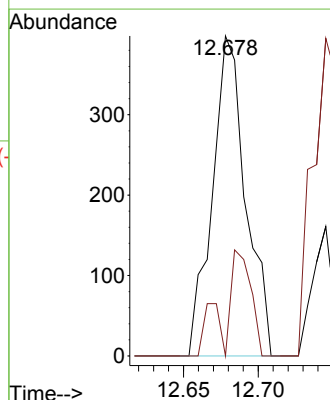
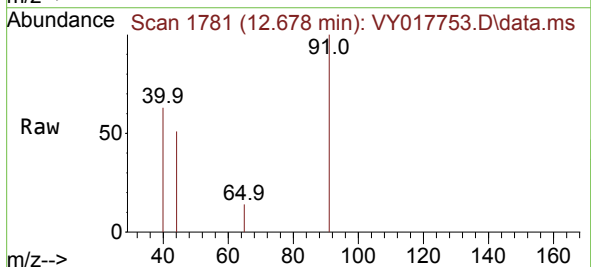
Acq: 25 Mar 2024 15:52

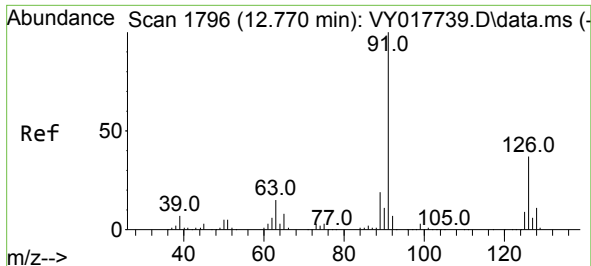
Tgt Ion: 91 Resp: 620

Ion Ratio Lower Upper

91 100

120 27.1 11.5 34.4

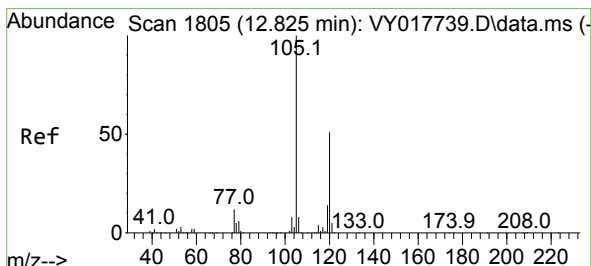
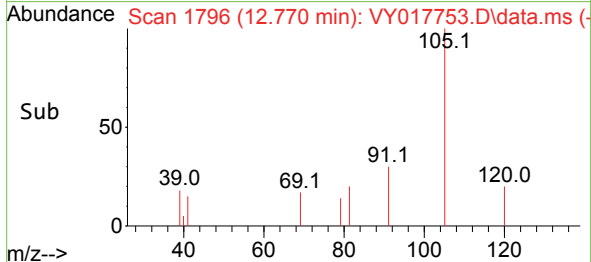
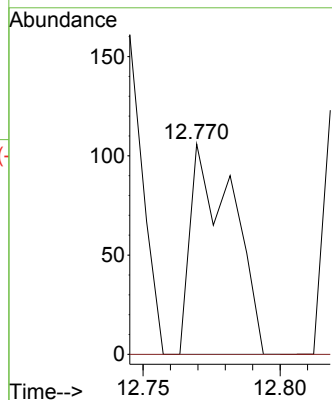
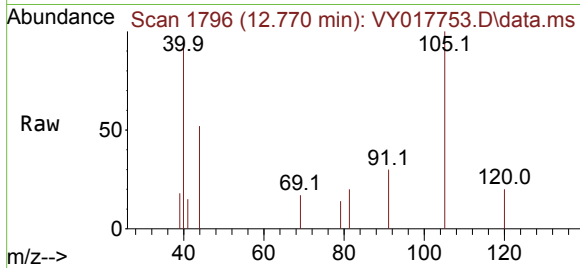




#79
2-Chlorotoluene
Concen: 1.175 ug/l
RT: 12.770 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

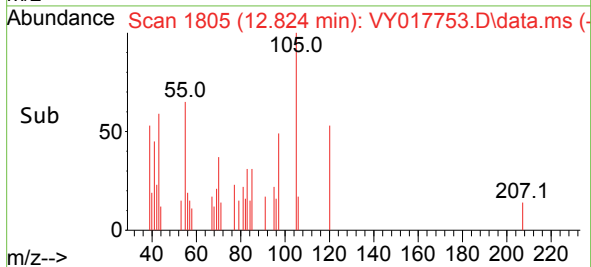
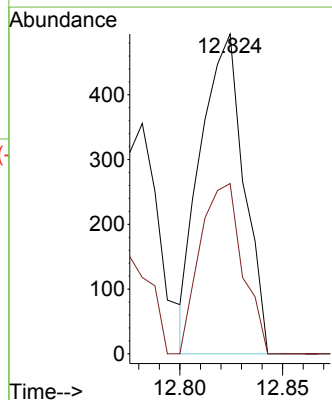
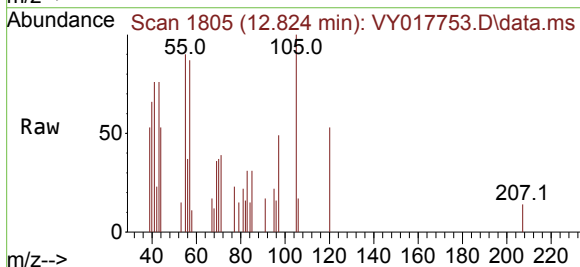
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-03252024

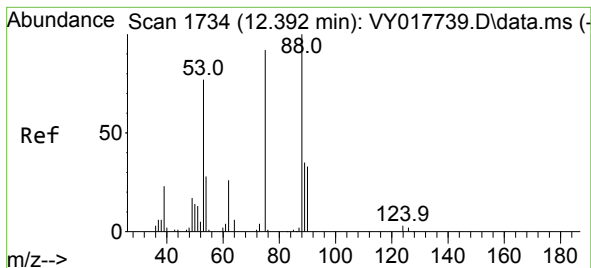
Tgt Ion: 91 Resp: 114
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#



#80
1,3,5-Trimethylbenzene
Concen: 6.339 ug/l
RT: 12.824 min Scan# 1805
Delta R.T. -0.000 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 105 Resp: 725
Ion Ratio Lower Upper
105 100
120 52.3 25.1 75.2

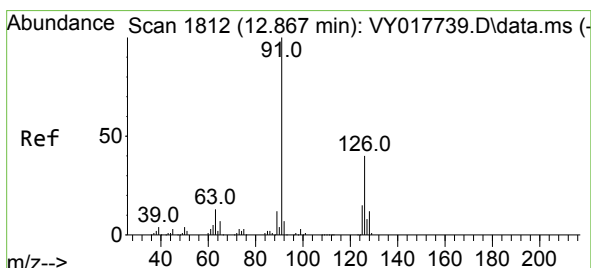
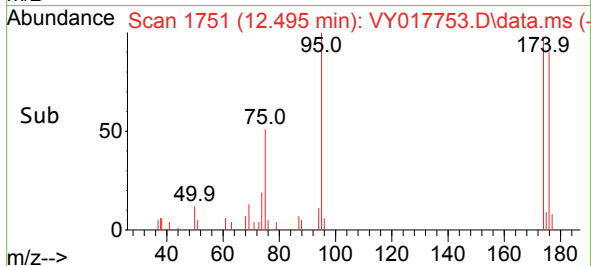
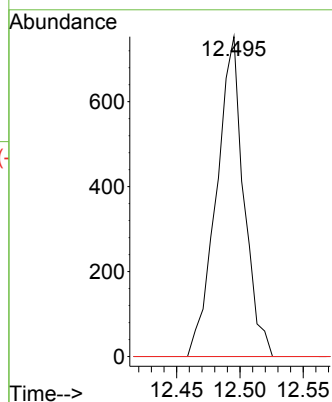
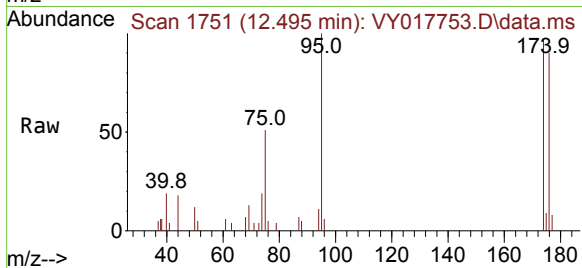




#81
trans-1,4-Dichloro-2-butene
Concen: 146.387 ug/l
RT: 12.495 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

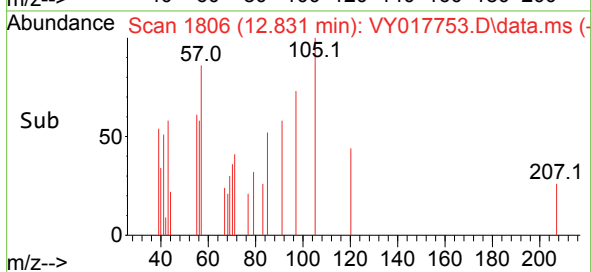
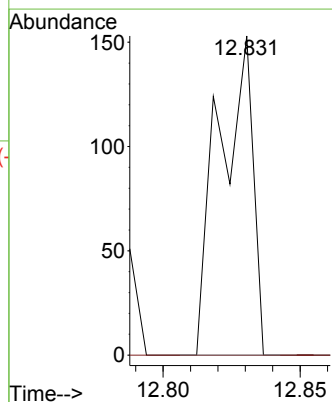
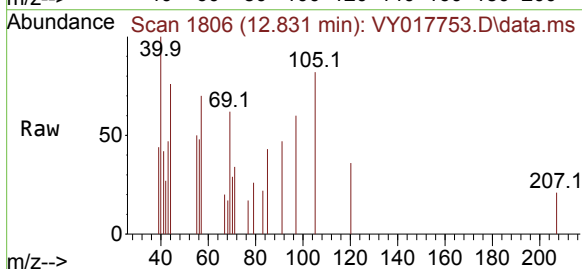
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-03252024

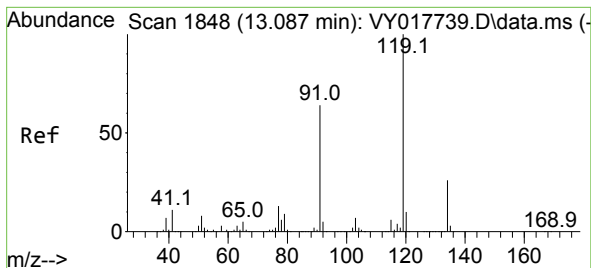
Tgt Ion: 75 Resp: 1132
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 35.8 53.6#



#82
4-Chlorotoluene
Concen: 1.316 ug/l
RT: 12.831 min Scan# 1806
Delta R.T. -0.037 min
Lab File: VY017753.D
Acq: 25 Mar 2024 15:52

Tgt Ion: 91 Resp: 131
Ion Ratio Lower Upper
91 100
126 0.0 17.6 52.9#





#83

tert-Butylbenzene

Concen: 3.063 ug/l

RT: 13.324 min Scan# 1887

Delta R.T. 0.237 min

Lab File: VY017753.D

Acq: 25 Mar 2024 15:52

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-03252024

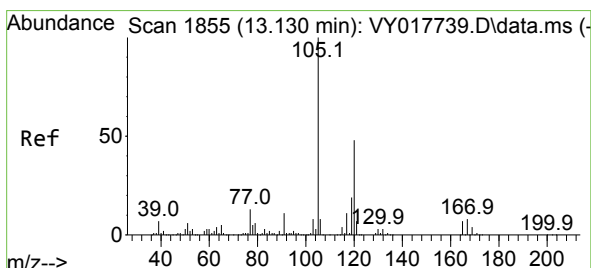
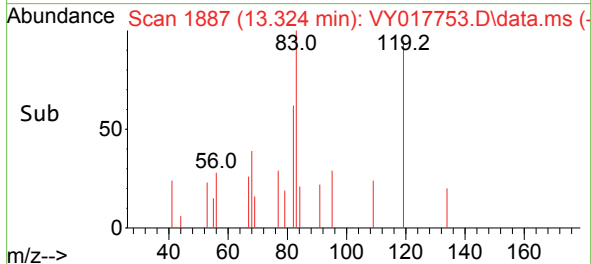
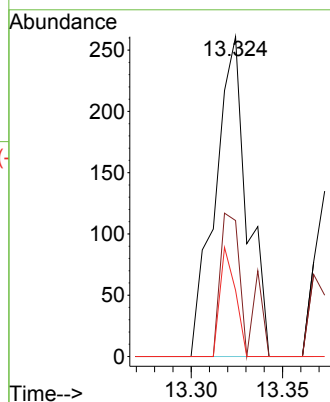
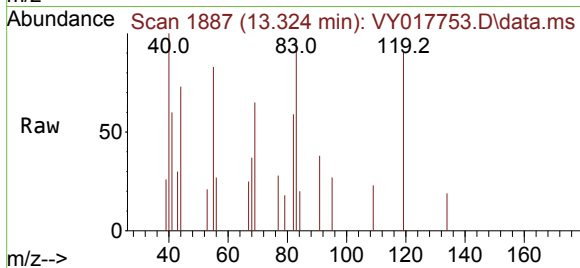
Tgt Ion:119 Resp: 317

Ion Ratio Lower Upper

119 100

91 34.4 31.3 93.8

134 16.4 13.4 40.1



#84

1,2,4-Trimethylbenzene

Concen: 15.687 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. -0.000 min

Lab File: VY017753.D

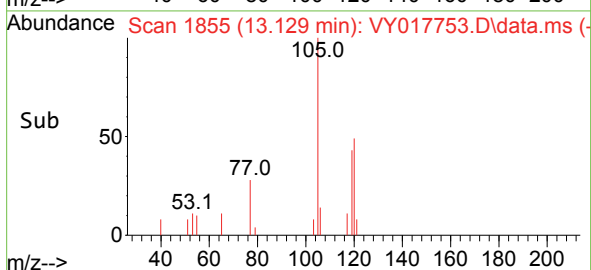
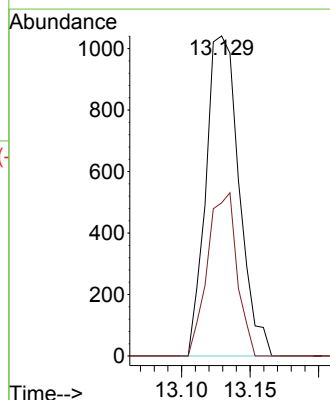
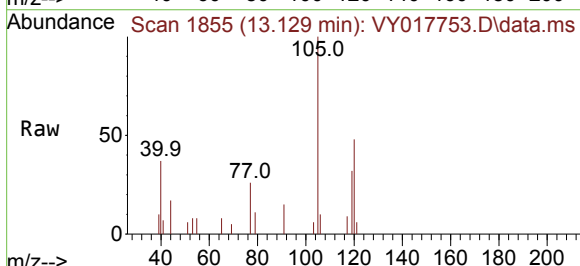
Acq: 25 Mar 2024 15:52

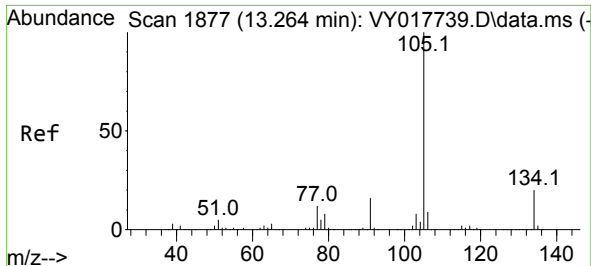
Tgt Ion:105 Resp: 1759

Ion Ratio Lower Upper

105 100

120 45.1 23.2 69.6

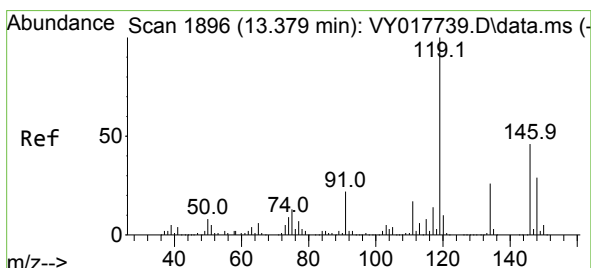
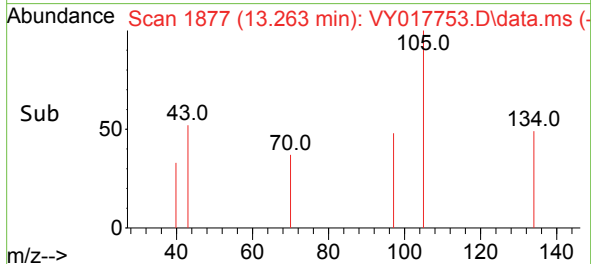
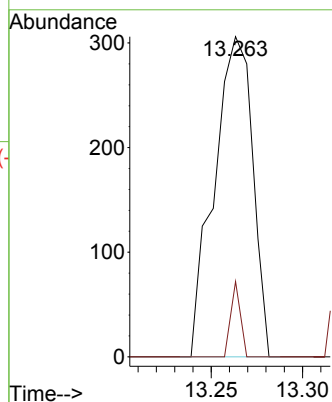
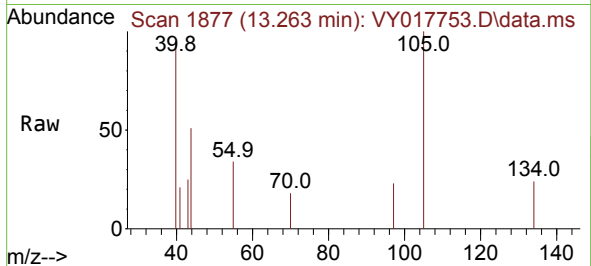




#85
 sec-Butylbenzene
 Concen: 2.901 ug/l
 RT: 13.263 min Scan# 1877
 Delta R.T. -0.000 min
 Lab File: VY017753.D
 Acq: 25 Mar 2024 15:52

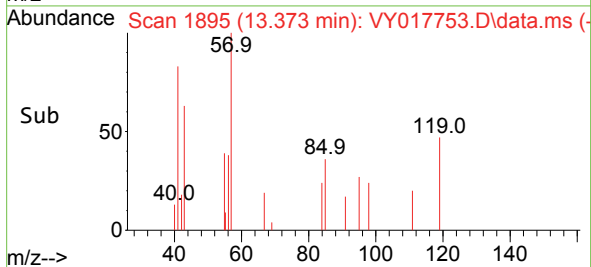
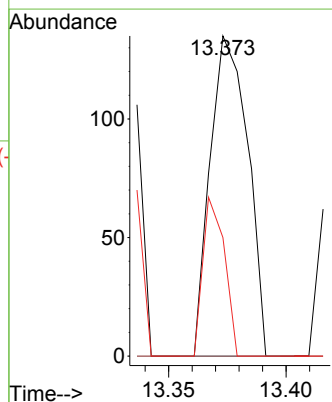
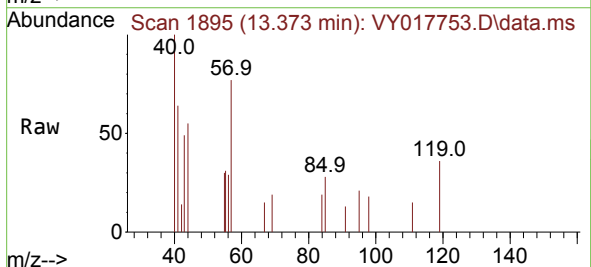
Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-03252024

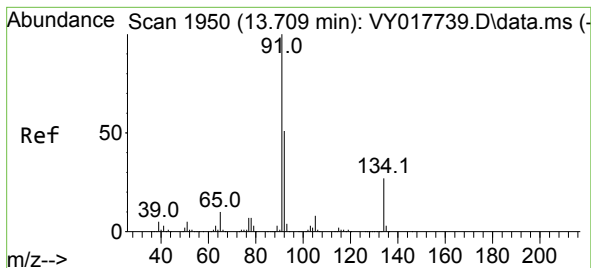
Tgt Ion:105 Resp: 450
 Ion Ratio Lower Upper
 105 100
 134 5.8 10.1 30.1#



#86
 p-Isopropyltoluene
 Concen: 1.165 ug/l
 RT: 13.373 min Scan# 1895
 Delta R.T. -0.006 min
 Lab File: VY017753.D
 Acq: 25 Mar 2024 15:52

Tgt Ion:119 Resp: 150
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.1 39.3#
 91 28.7 10.7 32.1





#89

n-Butylbenzene

Concen: 5.964 ug/l

RT: 13.702 min Scan# 1950

Delta R.T. -0.006 min

Lab File: VY017753.D

Acq: 25 Mar 2024 15:52

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-03252024

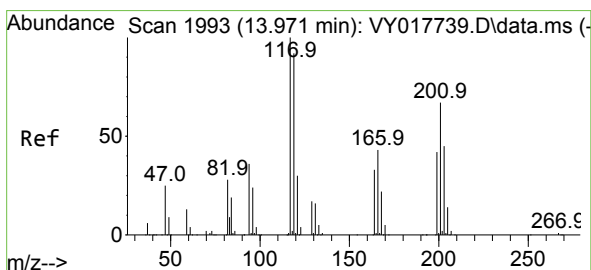
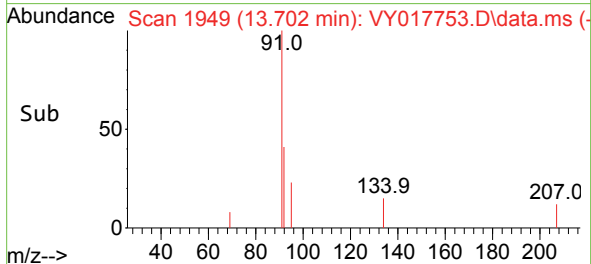
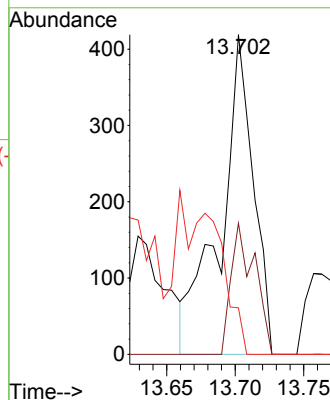
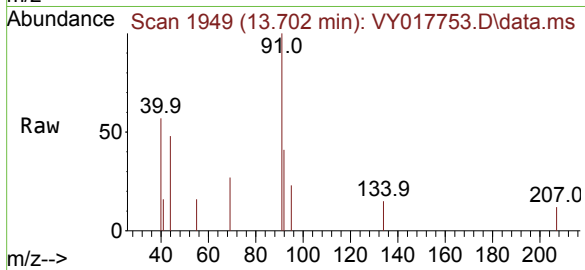
Tgt Ion: 91 Resp: 695

Ion Ratio Lower Upper

91 100

92 29.6 26.6 79.7

134 0.0 12.9 38.7#



#90

Hexachloroethane

Concen: 1.218 ug/l

RT: 13.983 min Scan# 1995

Delta R.T. 0.012 min

Lab File: VY017753.D

Acq: 25 Mar 2024 15:52

Tgt Ion: 117 Resp: 32

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#

