

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022724\
 Data File : VY017504.D
 Acq On : 27 Feb 2024 18:13
 Operator : SY/MD
 Sample : P1564-05RE
 Misc : 3.77g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 18 Sample Multiplier: 1

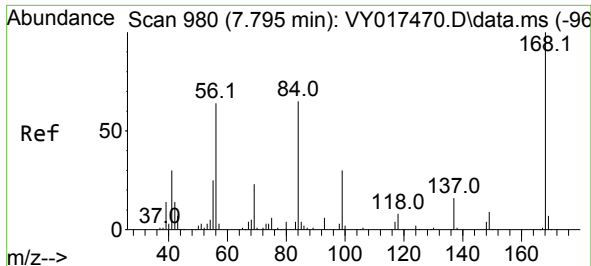
Instrument :
 MSVOA_Y
 ClientSampleId :
 LKWD-BACKFILL-11

Quant Time: Feb 28 00:20:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022324S.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 24 04:41:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.795	168	108699	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	191223	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	161628	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	64643	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	66321	64.378	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 128.760%	
35) Dibromofluoromethane	7.722	113	71569	53.710	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.420%	
50) Toluene-d8	10.185	98	229630	49.288	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.580%	
62) 4-Bromofluorobenzene	12.483	95	62061	42.386	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 84.780%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.906	85	824	1.028	ug/l	74
9) 1,1,2-Trichlorotrifluo...	3.899	101	1801	1.635	ug/l	92
11) Tert butyl alcohol	4.930	59	438	5.005	ug/l #	88
16) Acetone	3.954	43	1891	9.464	ug/l #	80
20) Methylene Chloride	4.723	84	6050	Below Cal		91
25) 2-Butanone	7.003	43	318	1.117	ug/l #	41
29) Tetrahydrofuran	7.356	42	314	1.829	ug/l #	62
31) Cyclohexane	7.795	56	2658	1.585	ug/l #	15
39) Methylcyclohexane	9.191	83	2167	1.003	ug/l	97
49) 1,4-Dioxane	9.307	88	49	5.956	ug/l #	50
51) 4-Methyl-2-Pentanone	10.069	43	1534	2.206	ug/l	96
56) Ethyl methacrylate	10.514	69	736	3.087	ug/l #	77
59) 2-Hexanone	10.837	43	634	1.327	ug/l	82
64) Tetrachloroethene	10.721	164	1794	1.156	ug/l #	86
68) m/p-Xylenes	11.709	106	3022	1.278	ug/l	99
76) 1,2,3-Trichloropropane	12.483	75	30603	49.825	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	30603	114.487	ug/l #	16
87) 1,3-Dichlorobenzene	13.367	146	2408	1.032	ug/l	97
88) 1,4-Dichlorobenzene	13.367	146	2408	1.061	ug/l	97
93) 1,2,4-Trichlorobenzene	15.007	180	1873	1.796	ug/l	96
94) Hexachlorobutadiene	15.111	225	1043	1.620	ug/l	94
95) Naphthalene	15.239	128	1344	4.527	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.422	180	1109	1.239	ug/l	98

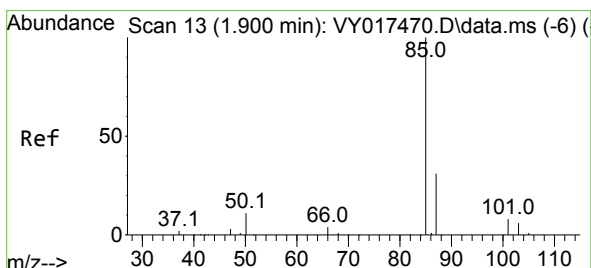
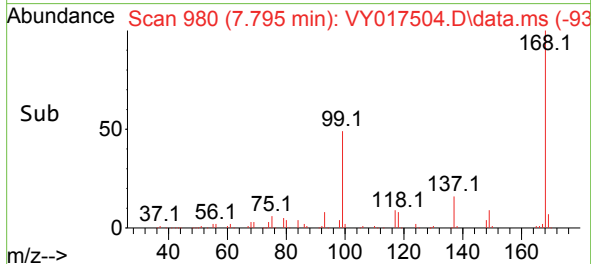
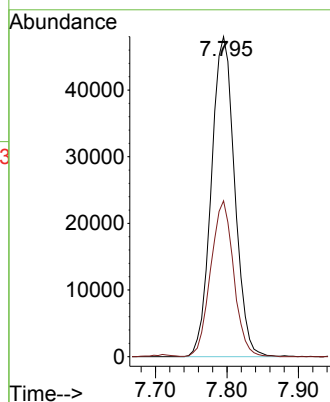
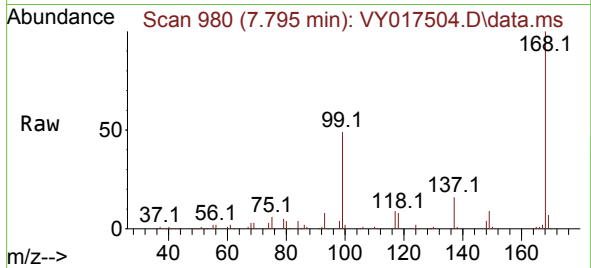
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

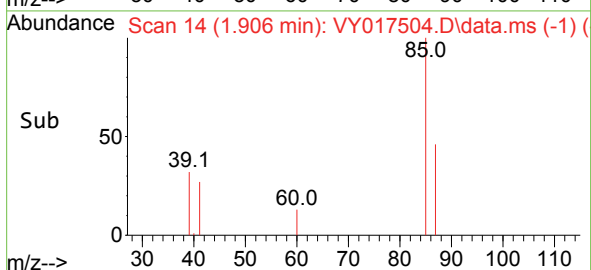
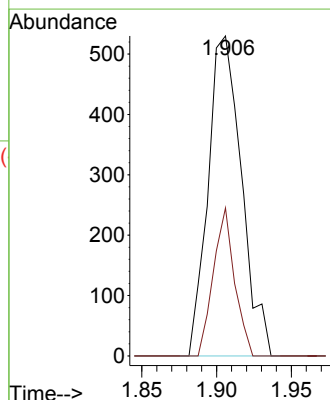
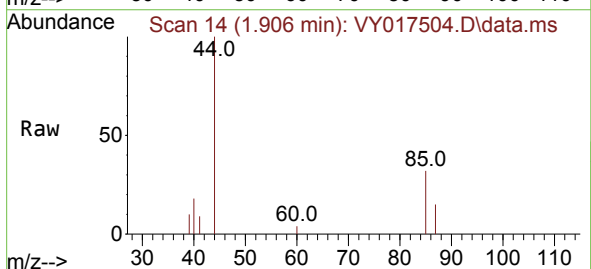
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ClientSampleId :
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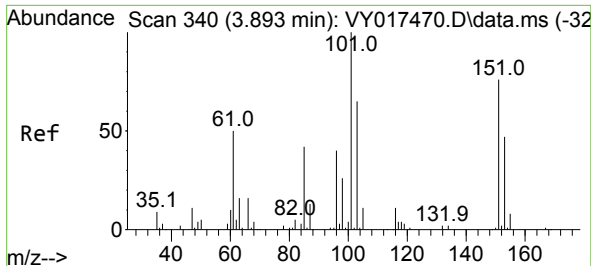
Tgt Ion:168 Resp: 108699
Ion Ratio Lower Upper
168 100
99 48.7 39.1 58.7



#2
Dichlorodifluoromethane
Concen: 1.028 ug/l
RT: 1.906 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

Tgt Ion: 85 Resp: 824
Ion Ratio Lower Upper
85 100
87 46.2 16.0 48.0

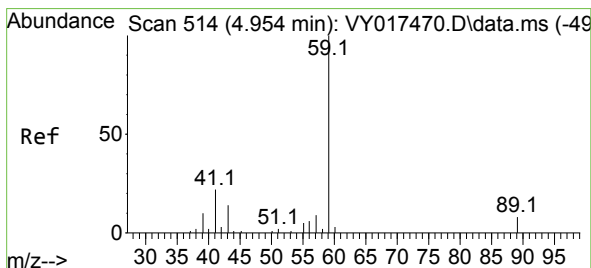
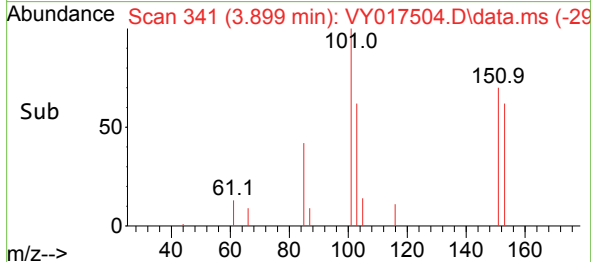
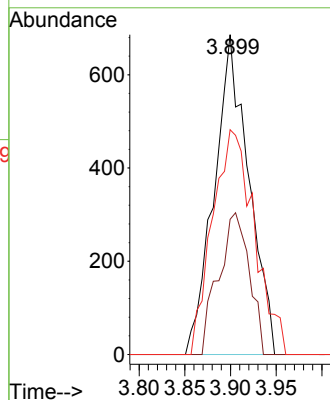
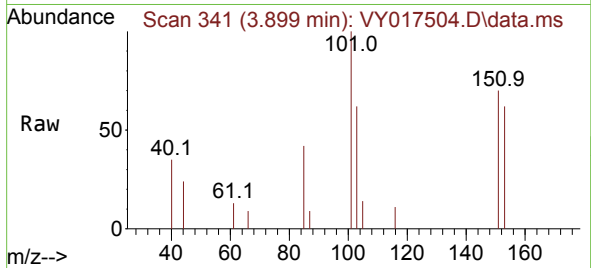




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.635 ug/l
RT: 3.899 min Scan# 341
Delta R.T. 0.006 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

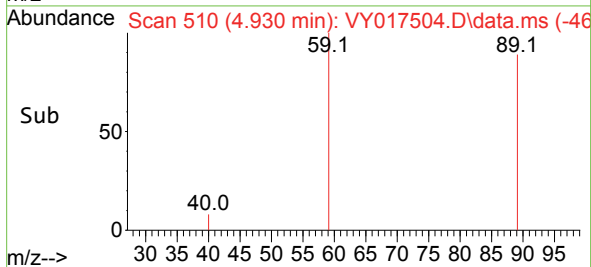
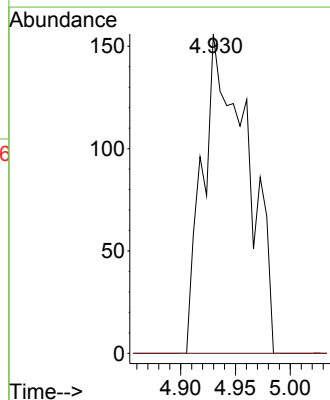
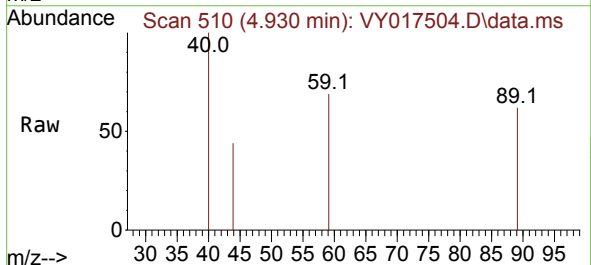
Instrument :
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ClientSampleId :
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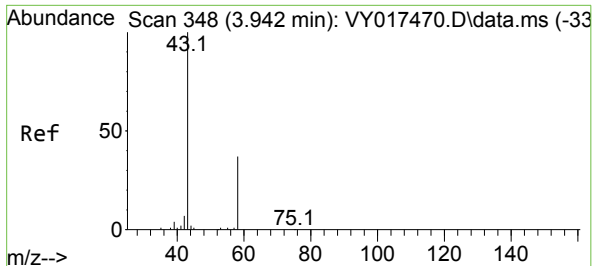
Tgt Ion:101 Resp: 1801
Ion Ratio Lower Upper
101 100
85 39.4 34.5 51.7
151 85.2 61.7 92.5



#11
Tert butyl alcohol
Concen: 5.005 ug/l
RT: 4.930 min Scan# 510
Delta R.T. -0.024 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

Tgt Ion: 59 Resp: 438
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#

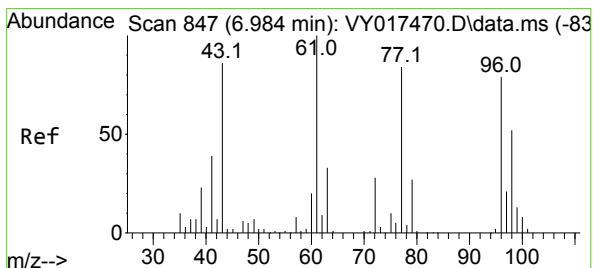
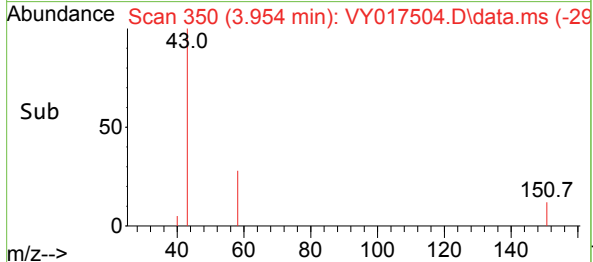
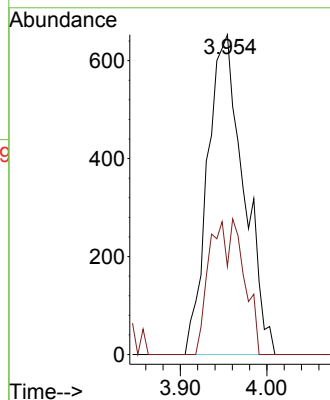
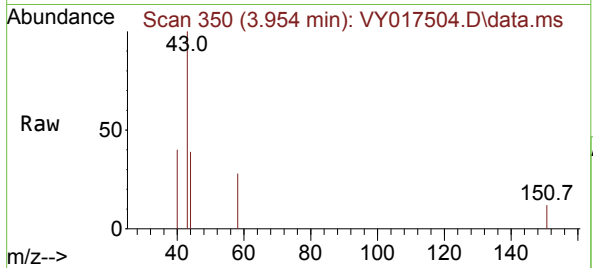




#16
Acetone
Concen: 9.464 ug/l
RT: 3.954 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

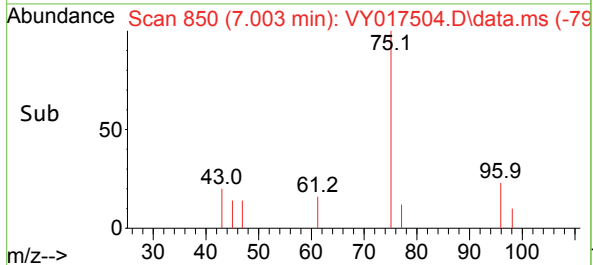
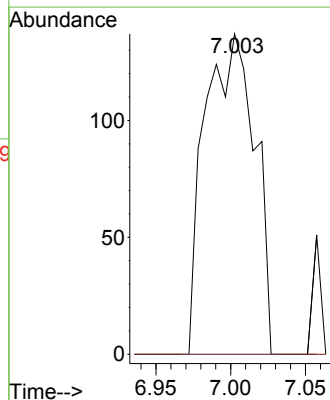
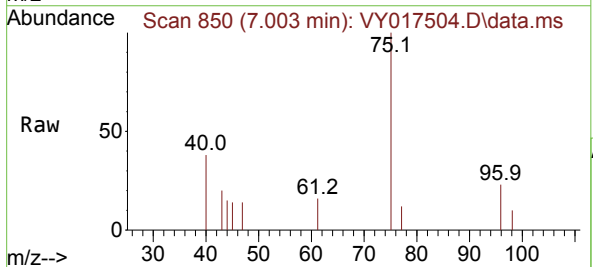
Instrument :
MSVOA_Y
ClientSampleId :
LKWD-BACKFILL-11

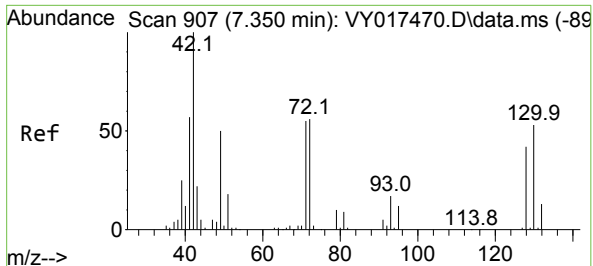
Tgt Ion: 43 Resp: 1891
Ion Ratio Lower Upper
43 100
58 27.6 31.7 47.5#



#25
2-Butanone
Concen: 1.117 ug/l
RT: 7.003 min Scan# 850
Delta R.T. 0.018 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

Tgt Ion: 43 Resp: 318
Ion Ratio Lower Upper
43 100
72 0.0 27.3 40.9#





#29

Tetrahydrofuran

Concen: 1.829 ug/l

RT: 7.356 min Scan# 90

Delta R.T. 0.006 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

Instrument :

MSVOA_Y

ClientSampleId :

LKWD-BACKFILL-11

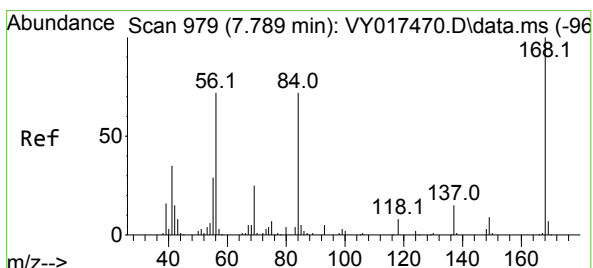
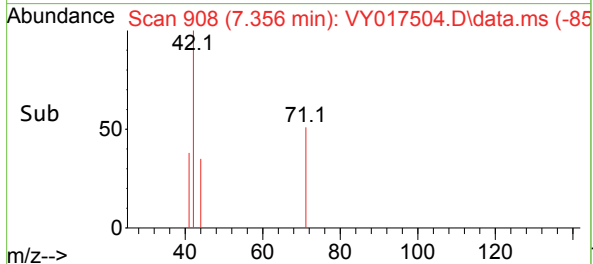
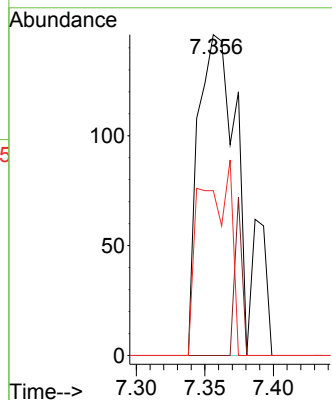
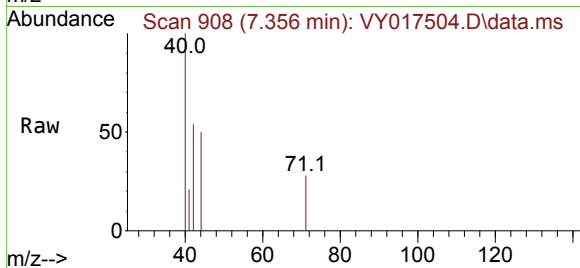
Tgt Ion: 42 Resp: 314

Ion Ratio Lower Upper

42 100

72 8.3 43.0 64.4#

71 43.6 40.8 61.2



#31

Cyclohexane

Concen: 1.585 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.006 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

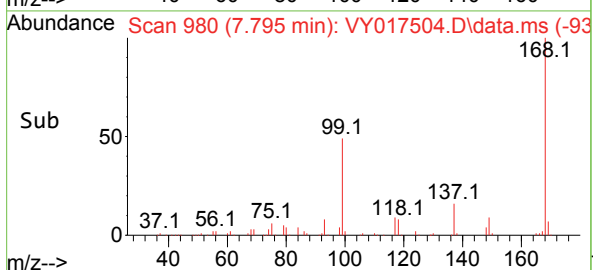
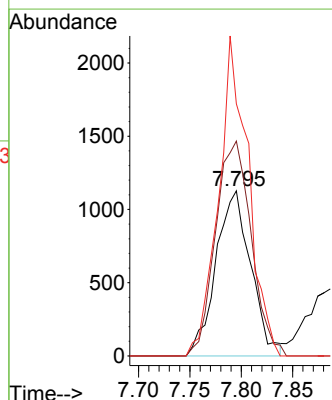
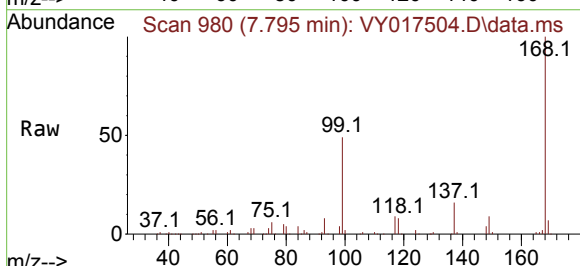
Tgt Ion: 56 Resp: 2658

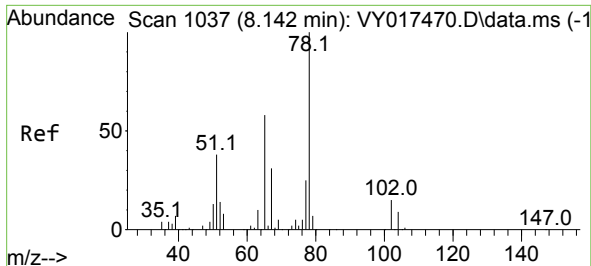
Ion Ratio Lower Upper

56 100

69 130.2 28.7 43.1#

84 152.8 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 64.378 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. 0.000 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

Instrument :

MSVOA_Y

ClientSampleId :

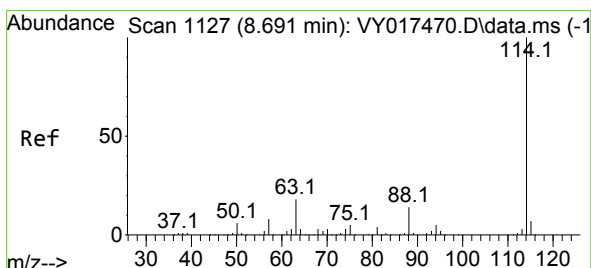
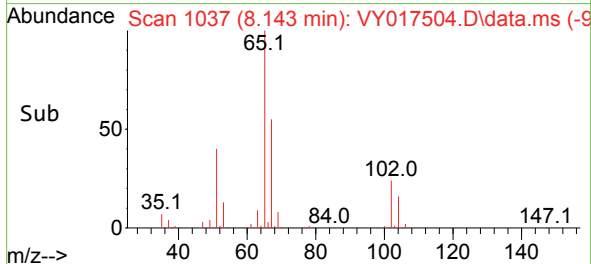
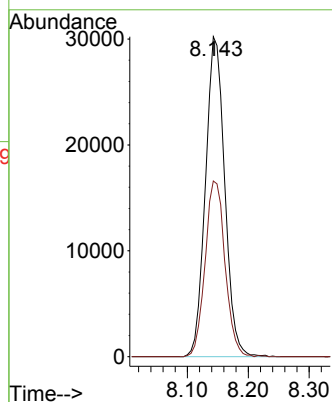
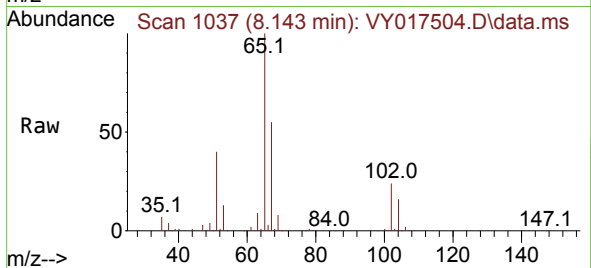
LKWD-BACKFILL-11

Tgt Ion: 65 Resp: 66321

Ion Ratio Lower Upper

65 100

67 56.7 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

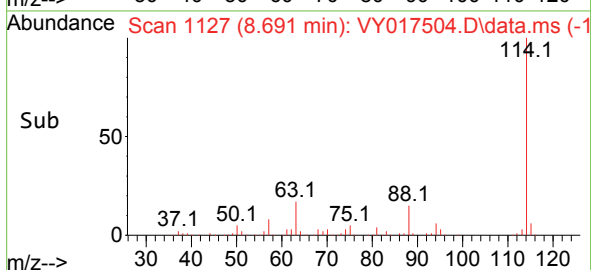
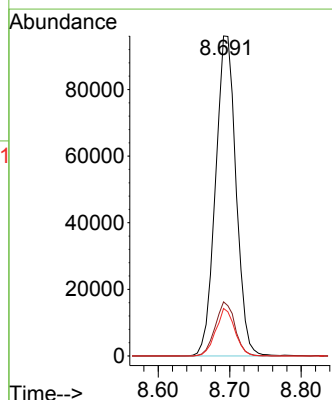
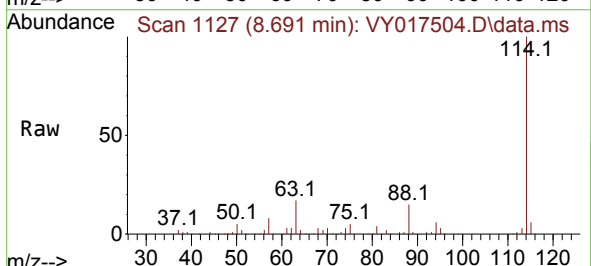
Tgt Ion: 114 Resp: 191223

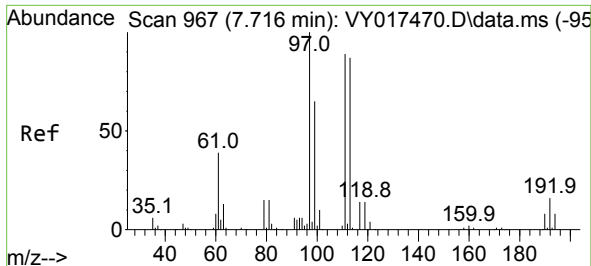
Ion Ratio Lower Upper

114 100

63 16.9 0.0 35.0

88 14.9 0.0 27.2

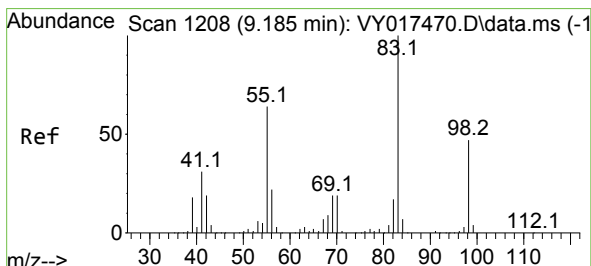
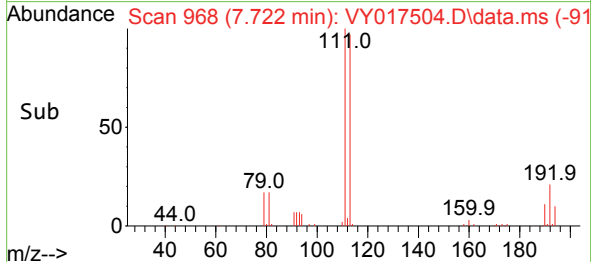
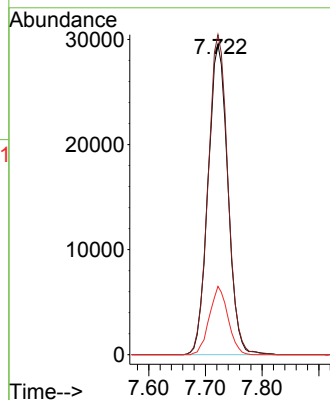
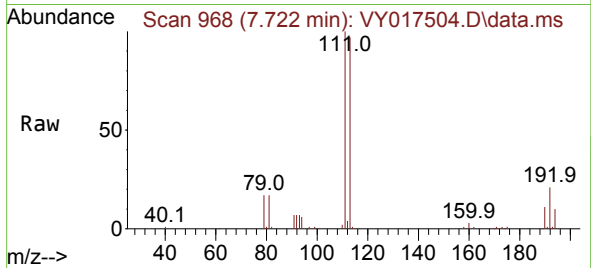




#35
Dibromofluoromethane
Concen: 53.710 ug/l
RT: 7.722 min Scan# 90
Delta R.T. 0.006 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

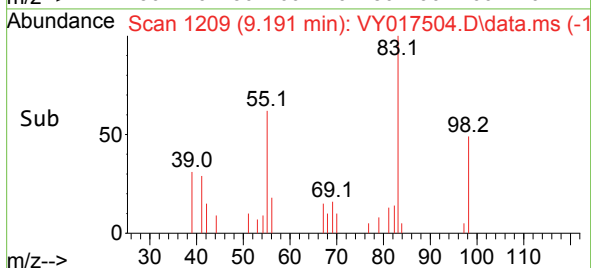
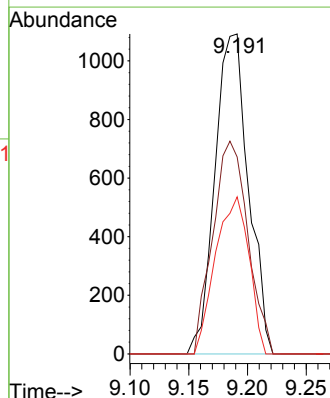
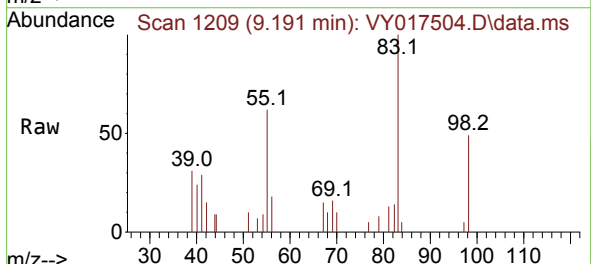
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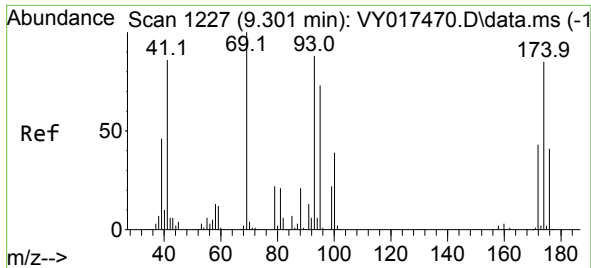
Tgt Ion:113 Resp: 71569
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.4
192 20.7 15.9 23.9



#39
Methylcyclohexane
Concen: 1.003 ug/l
RT: 9.191 min Scan# 1209
Delta R.T. 0.006 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

Tgt Ion: 83 Resp: 2167
Ion Ratio Lower Upper
83 100
55 61.5 51.5 77.3
98 49.1 40.5 60.7





#49

1,4-Dioxane

Concen: 5.956 ug/l

RT: 9.307 min Scan# 1227

Delta R.T. 0.006 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

Instrument :

MSVOA_Y

ClientSampleId :

LKWD-BACKFILL-11

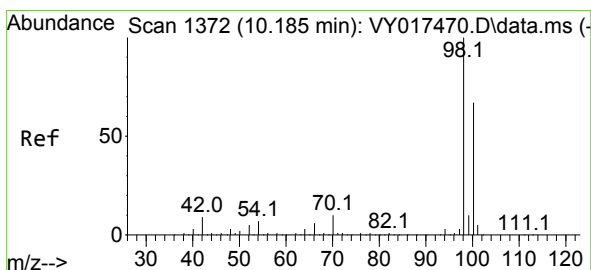
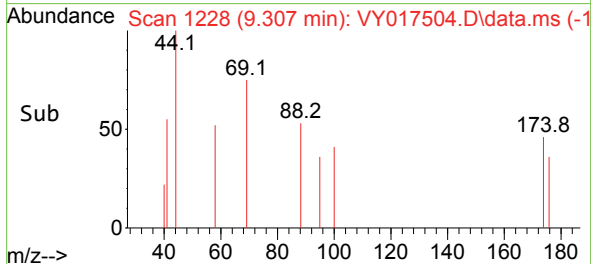
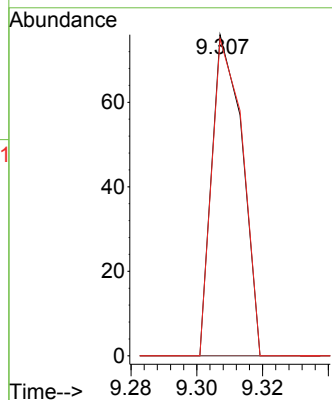
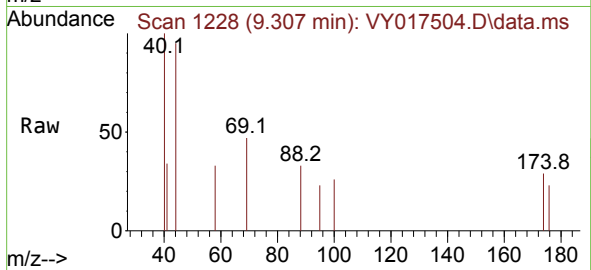
Tgt Ion: 88 Resp: 49

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 100.0 49.3 73.9#



#50

Toluene-d8

Concen: 49.288 ug/l

RT: 10.185 min Scan# 1372

Delta R.T. 0.000 min

Lab File: VY017504.D

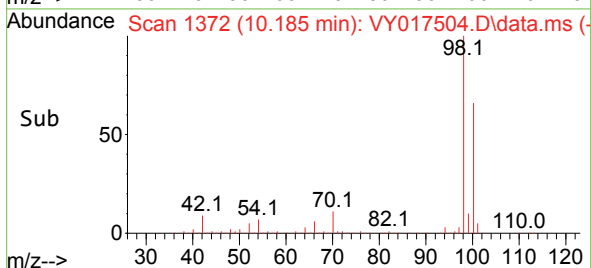
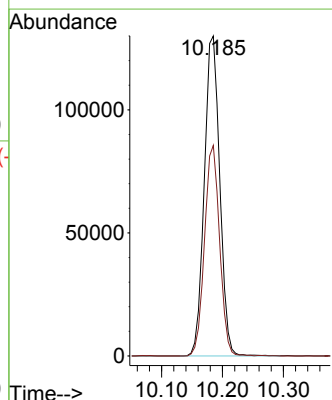
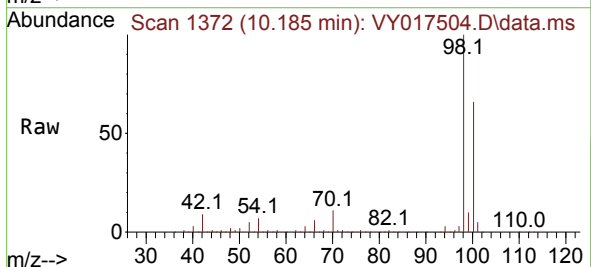
Acq: 27 Feb 2024 18:13

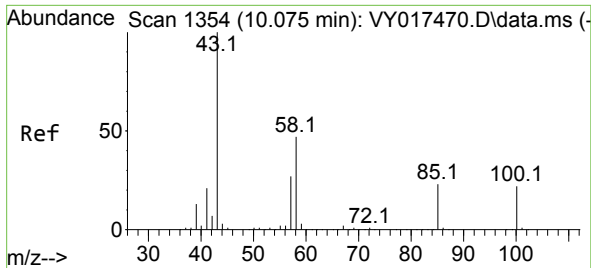
Tgt Ion: 98 Resp: 229630

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0

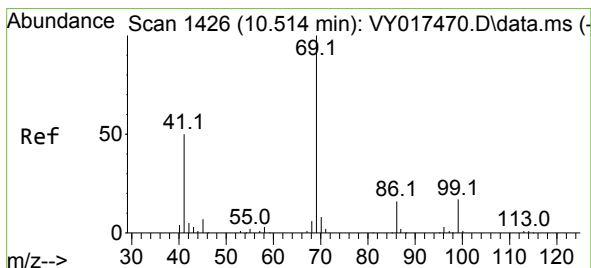
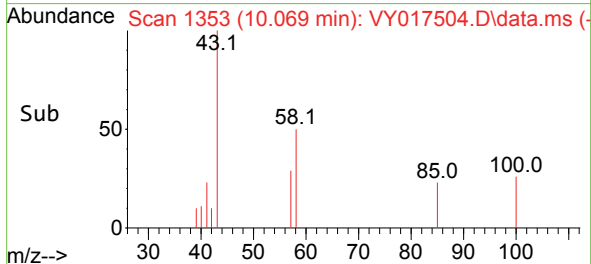
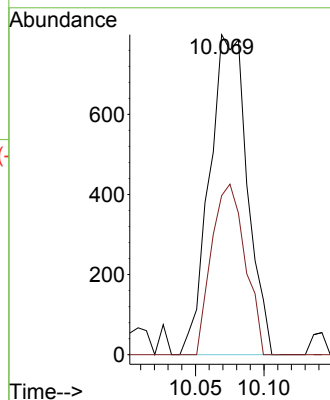
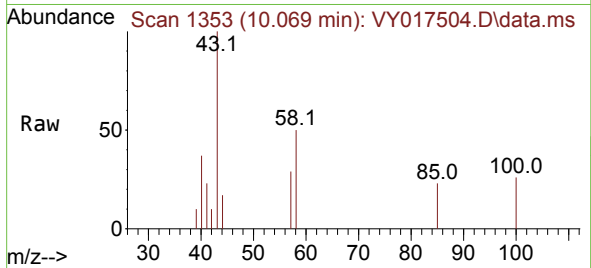




#51
4-Methyl-2-Pentanone
Concen: 2.206 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. -0.006 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

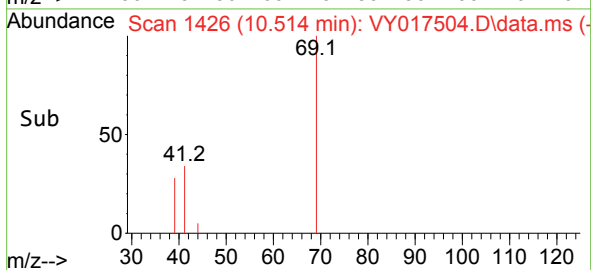
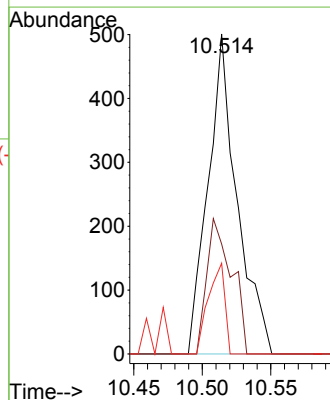
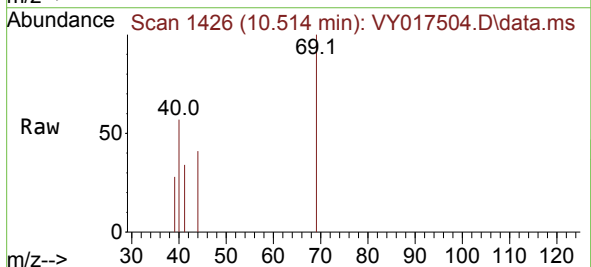
Instrument :
MSVOA_Y
ClientSampleId :
LKWD-BACKFILL-11

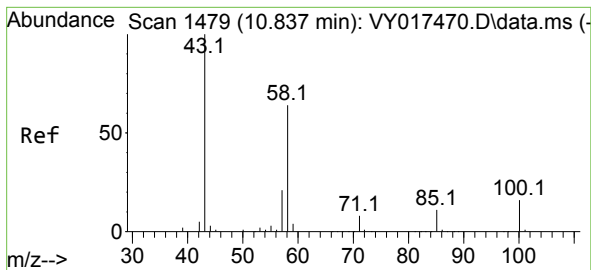
Tgt Ion: 43 Resp: 1534
Ion Ratio Lower Upper
43 100
58 47.3 35.7 53.5



#56
Ethyl methacrylate
Concen: 3.087 ug/l
RT: 10.514 min Scan# 1426
Delta R.T. 0.000 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

Tgt Ion: 69 Resp: 736
Ion Ratio Lower Upper
69 100
41 36.4 42.3 63.5#
39 16.2 22.9 34.3#

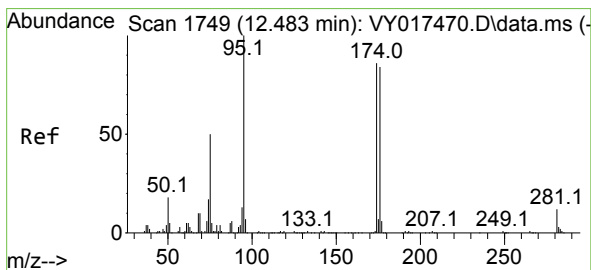
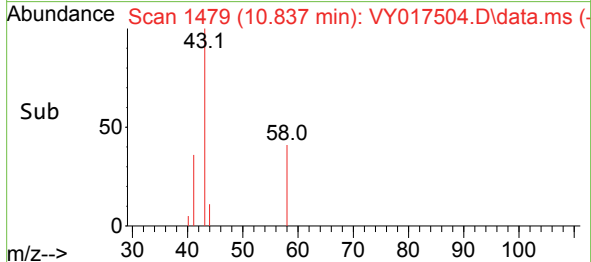
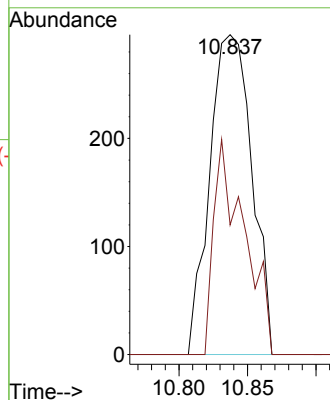
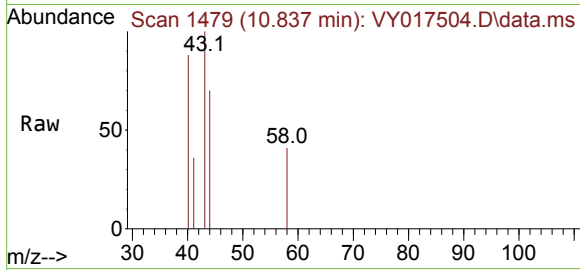




#59
2-Hexanone
Concen: 1.327 ug/l
RT: 10.837 min Scan# 1479
Delta R.T. 0.000 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

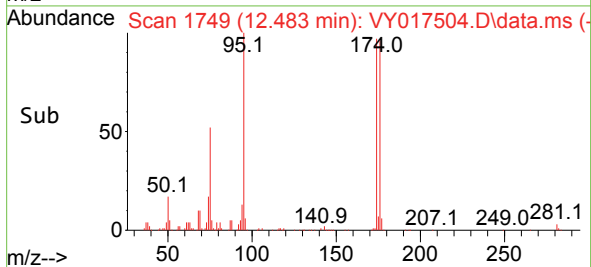
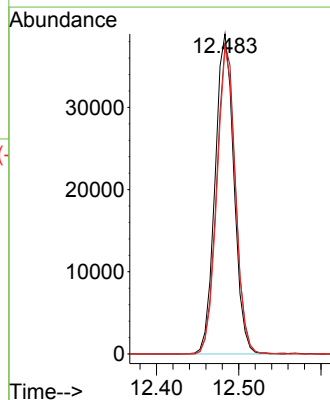
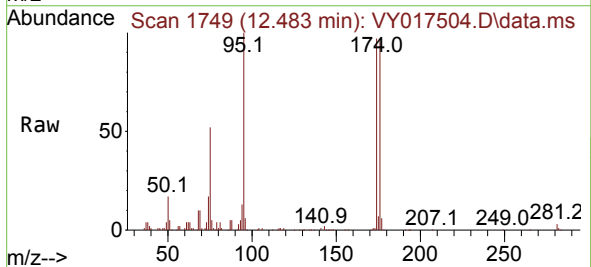
Instrument :
MSVOA_Y
ClientSampleId :
LKWD-BACKFILL-11

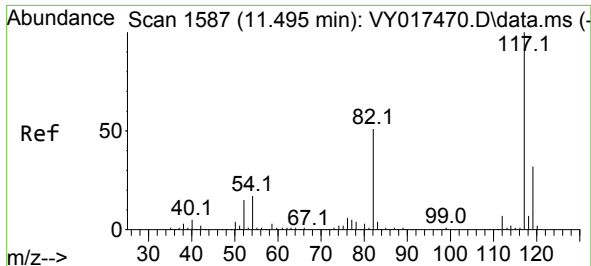
Tgt Ion: 43 Resp: 634
Ion Ratio Lower Upper
43 100
58 48.7 31.4 94.0



#62
4-Bromofluorobenzene
Concen: 42.386 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

Tgt Ion: 95 Resp: 62061
Ion Ratio Lower Upper
95 100
174 96.8 0.0 175.6
176 93.1 0.0 171.4

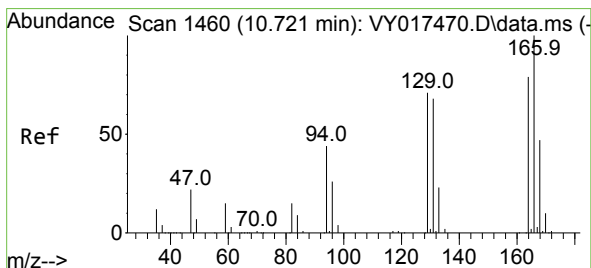
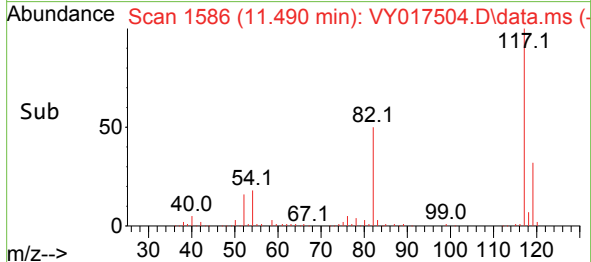
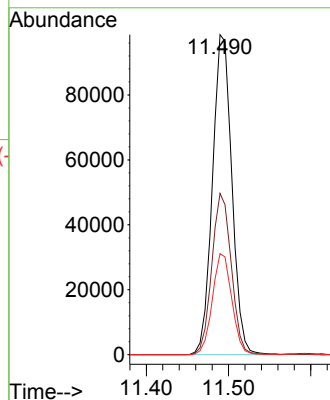
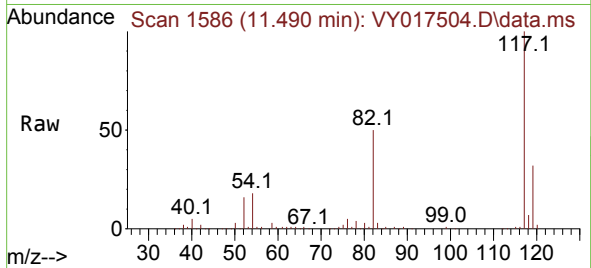




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

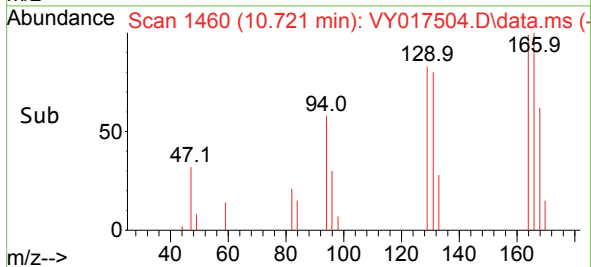
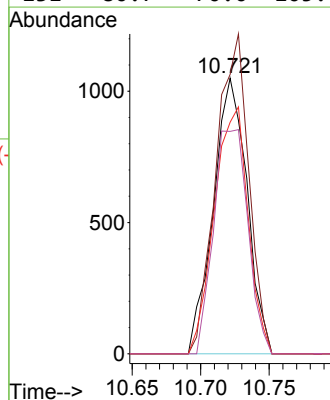
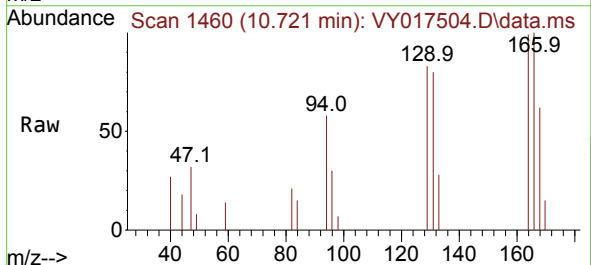
Instrument :
MSVOA_Y
ClientSampleId :
LKWD-BACKFILL-11

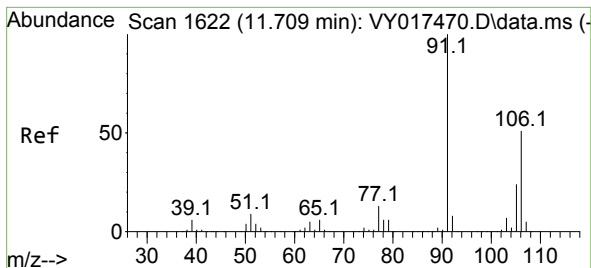
Tgt Ion:117 Resp: 161628
Ion Ratio Lower Upper
117 100
82 50.4 42.4 63.6
119 31.6 25.9 38.9



#64
Tetrachloroethene
Concen: 1.156 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. 0.000 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

Tgt Ion:164 Resp: 1794
Ion Ratio Lower Upper
164 100
166 101.4 102.6 154.0#
129 84.1 72.0 108.0
131 80.7 70.0 105.0





#68

m/p-Xylenes

Concen: 1.278 ug/l

RT: 11.709 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

Instrument :

MSVOA_Y

ClientSampleId :

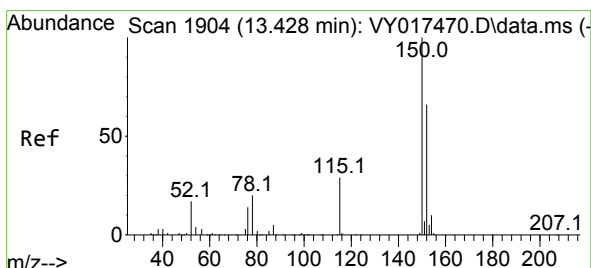
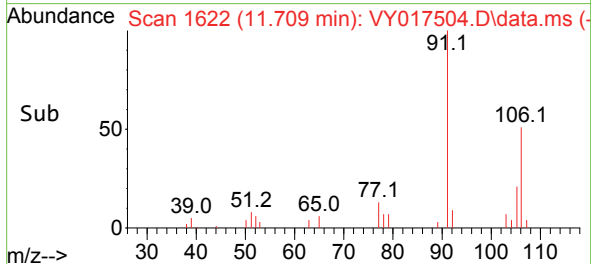
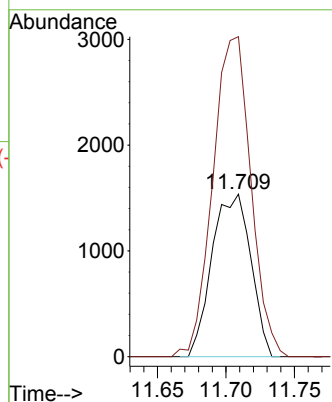
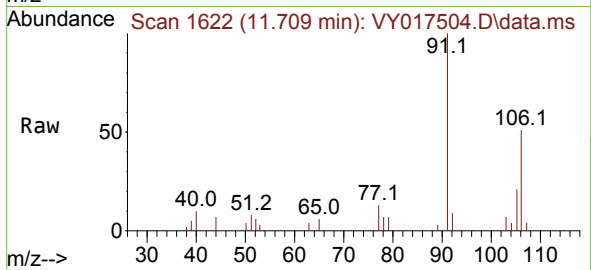
LKWD-BACKFILL-11

Tgt Ion:106 Resp: 3022

Ion Ratio Lower Upper

106 100

91 193.3 156.0 234.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

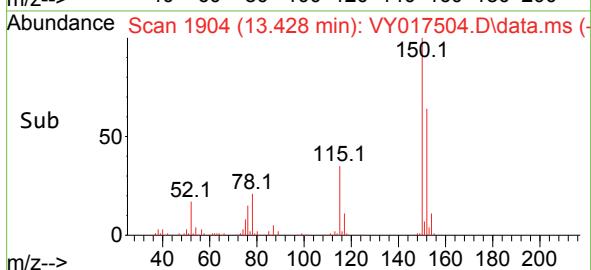
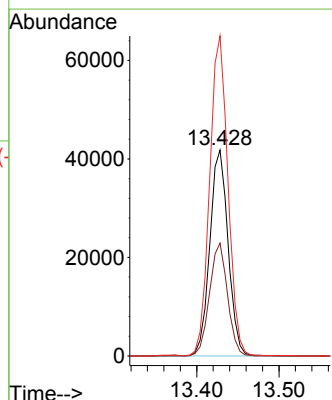
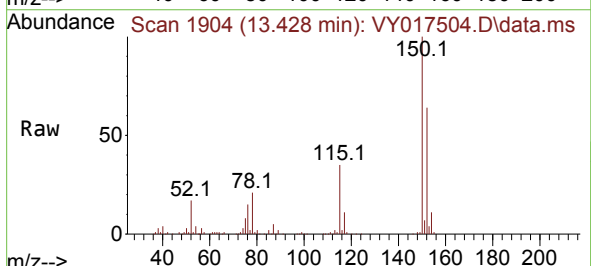
Tgt Ion:152 Resp: 64643

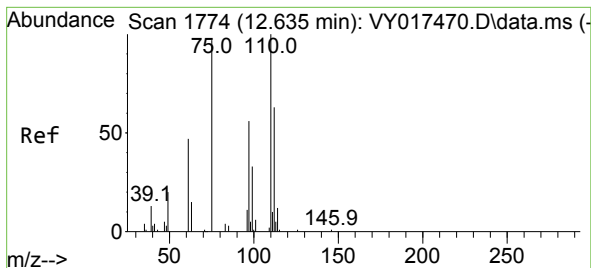
Ion Ratio Lower Upper

152 100

115 54.0 28.2 84.7

150 155.6 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 49.825 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

Instrument :

MSVOA_Y

ClientSampleId :

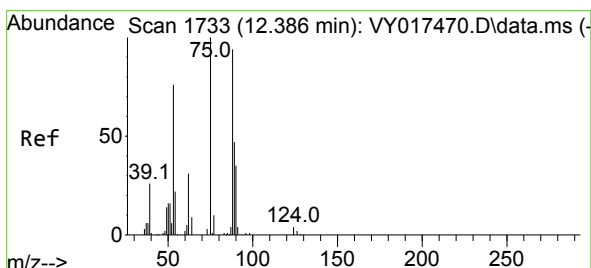
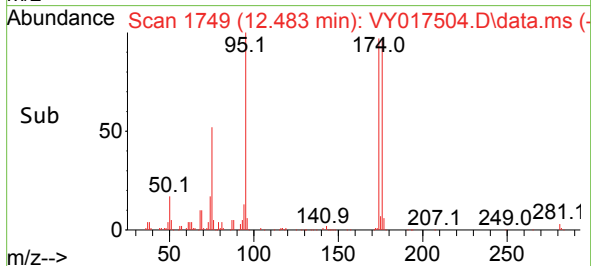
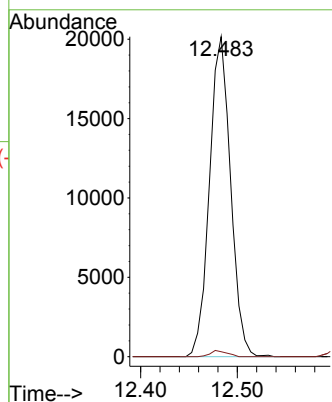
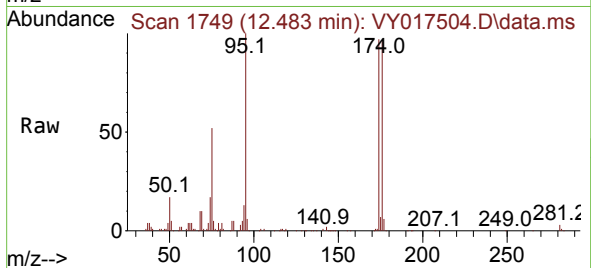
LKWD-BACKFILL-11

Tgt Ion: 75 Resp: 30603

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 114.487 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.098 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

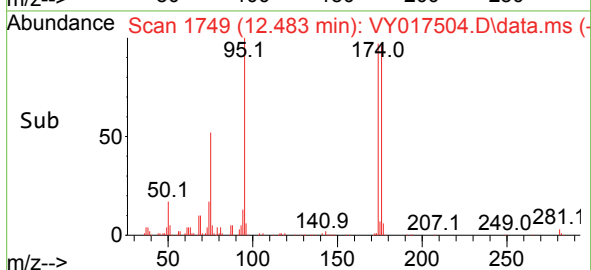
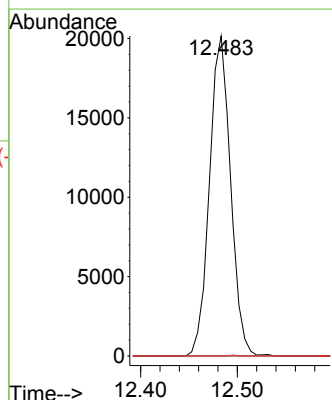
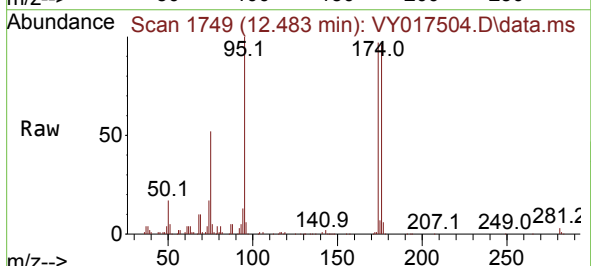
Tgt Ion: 75 Resp: 30603

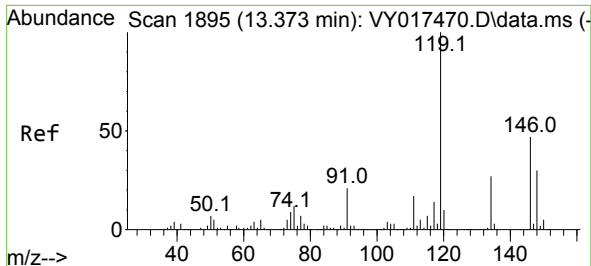
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.1 35.8 53.6#





#87

1,3-Dichlorobenzene

Concen: 1.032 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.006 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

Instrument :

MSVOA_Y

ClientSampleId :

LKWD-BACKFILL-11

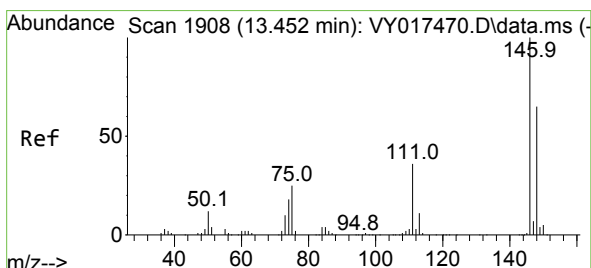
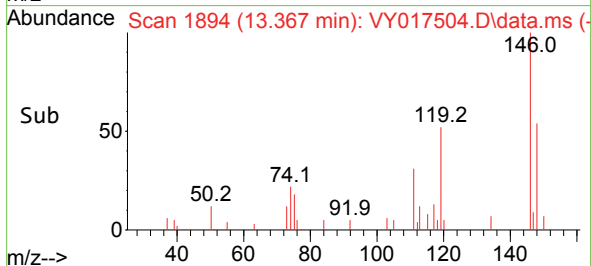
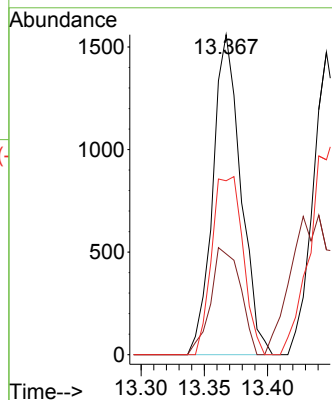
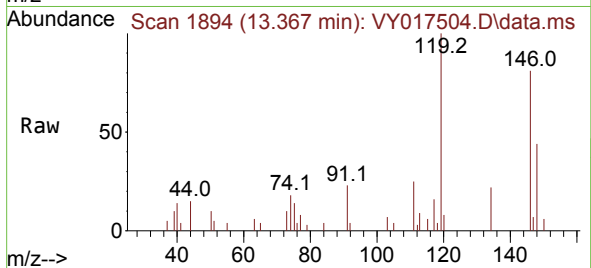
Tgt Ion:146 Resp: 2408

Ion Ratio Lower Upper

146 100

111 35.4 19.0 57.0

148 61.9 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 1.061 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.085 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

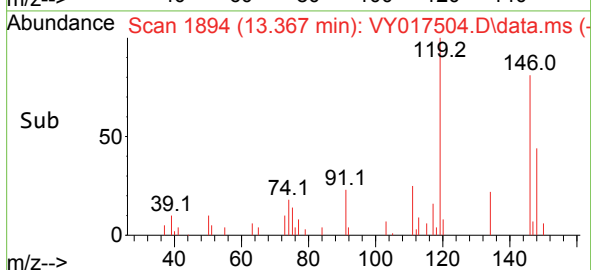
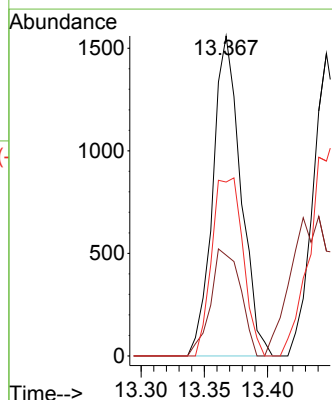
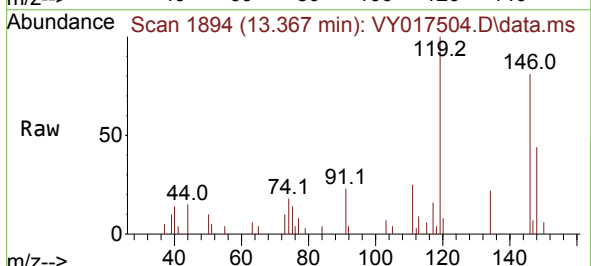
Tgt Ion:146 Resp: 2408

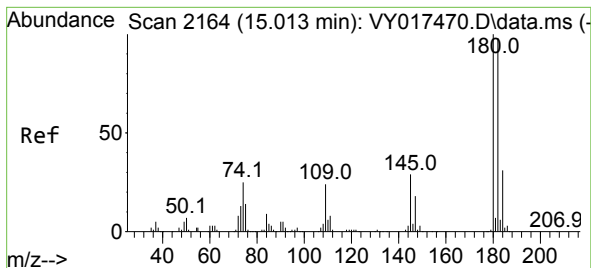
Ion Ratio Lower Upper

146 100

111 35.4 18.4 55.4

148 61.9 32.4 97.2





#93

1,2,4-Trichlorobenzene

Concen: 1.796 ug/l

RT: 15.007 min Scan# 2163

Delta R.T. -0.006 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

Instrument :

MSVOA_Y

ClientSampleId :

LKWD-BACKFILL-11

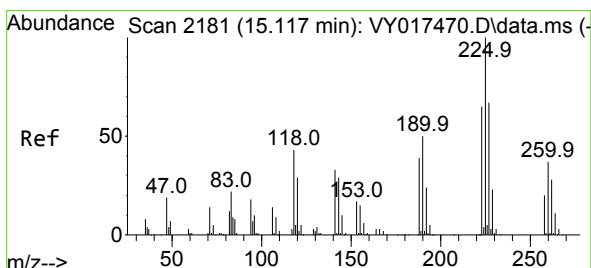
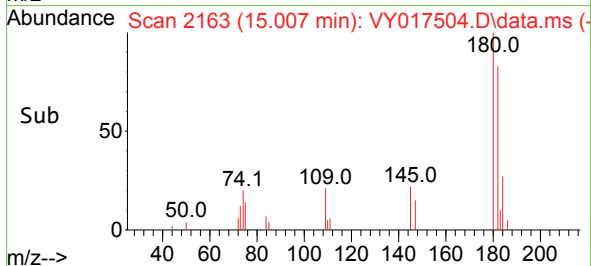
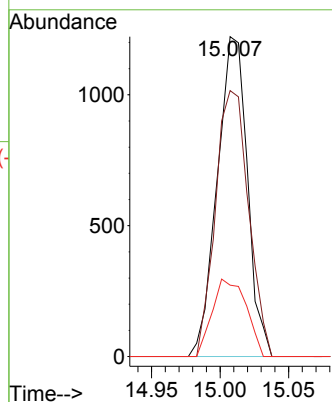
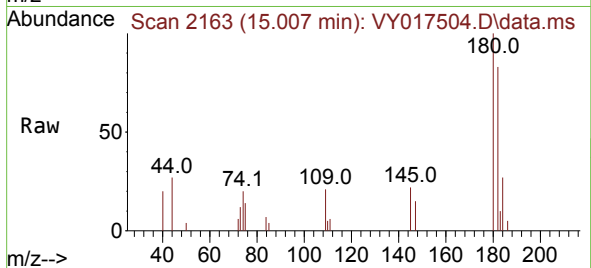
Tgt Ion:180 Resp: 1873

Ion Ratio Lower Upper

180 100

182 91.1 47.9 143.8

145 27.2 14.2 42.6



#94

Hexachlorobutadiene

Concen: 1.620 ug/l

RT: 15.111 min Scan# 2180

Delta R.T. -0.006 min

Lab File: VY017504.D

Acq: 27 Feb 2024 18:13

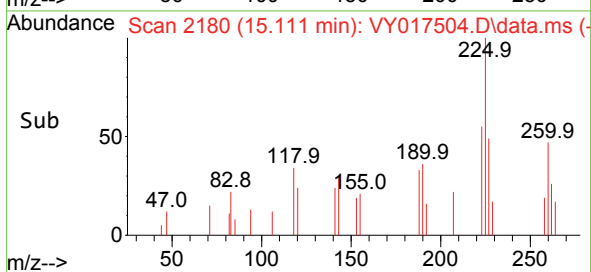
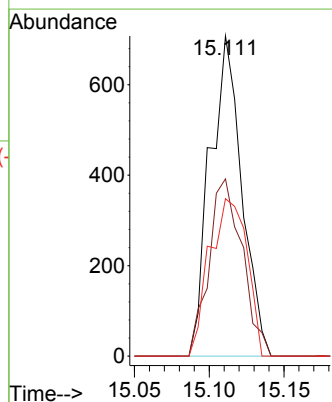
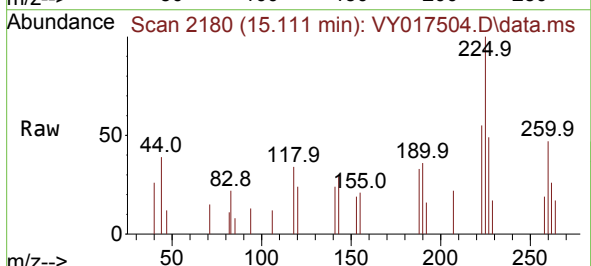
Tgt Ion:225 Resp: 1043

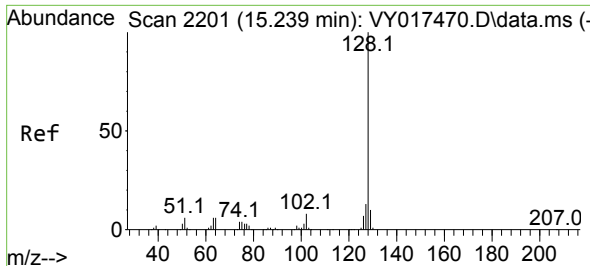
Ion Ratio Lower Upper

225 100

223 58.1 30.4 91.2

227 58.1 31.9 95.9

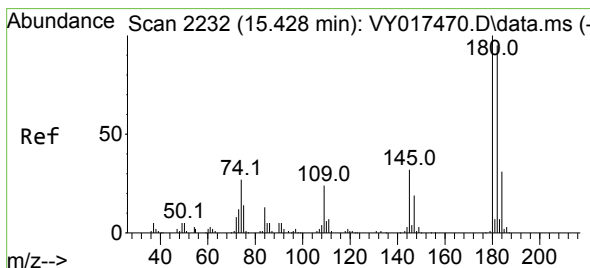
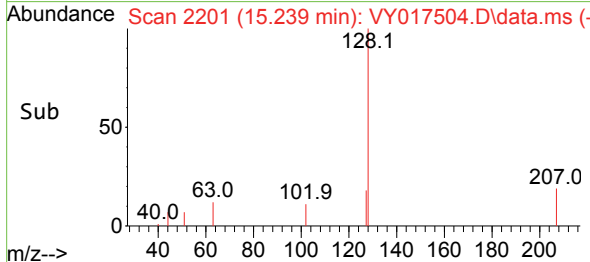
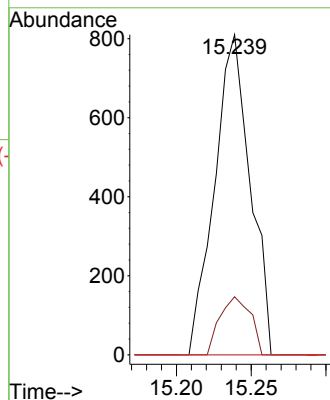
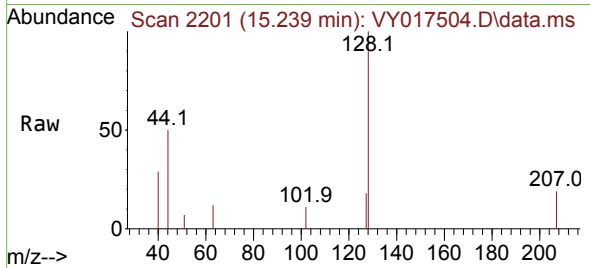




#95
Naphthalene
Concen: 4.527 ug/l
RT: 15.239 min Scan# 211
Delta R.T. -0.000 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

Instrument :
MSVOA_Y
ClientSampleId :
LKWD-BACKFILL-11

Tgt Ion:128 Resp: 1344
Ion Ratio Lower Upper
128 100
127 15.5 10.6 16.0
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.239 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.006 min
Lab File: VY017504.D
Acq: 27 Feb 2024 18:13

Tgt Ion:180 Resp: 1109
Ion Ratio Lower Upper
180 100
182 93.7 47.6 142.9
145 31.8 15.4 46.1

