

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061323\
 Data File : VY014144.D
 Acq On : 13 Jun 2023 17:03
 Operator : KP/MD
 Sample : 03166-01
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TEST-PIT-6-12-23

Quant Time: Jun 14 01:37:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 09 18:07:13 2023
 Response via : Initial Calibration

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

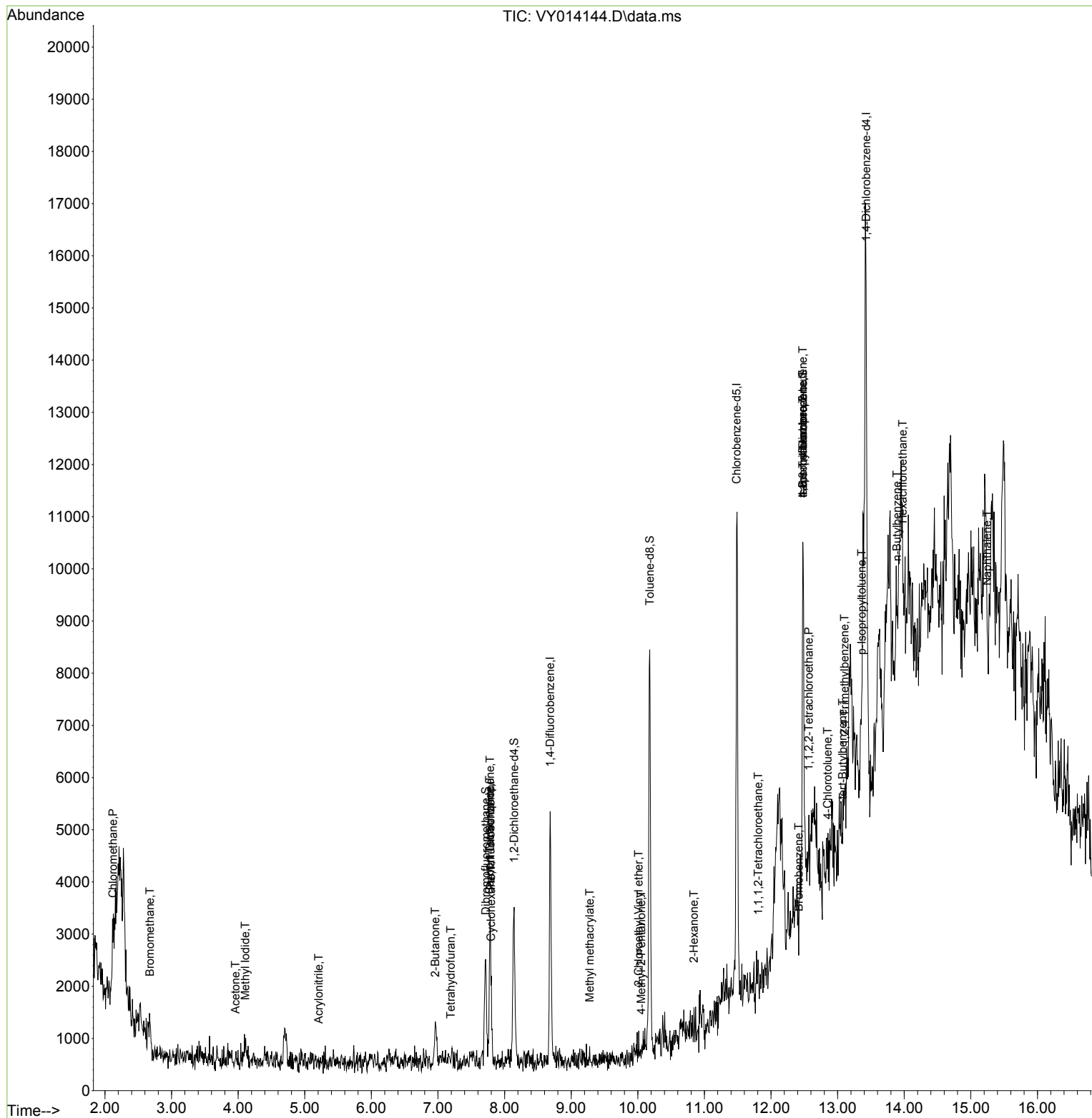
Internal Standards						
1) Pentafluorobenzene	7.789	168	2401	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.685	114	4168	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	5026	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	1768	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	2667	79.768	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 159.540%			
35) Dibromofluoromethane	7.716	113	1408	47.634	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.260%			
50) Toluene-d8	10.179	98	5486	49.644	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.280%			
62) 4-Bromofluorobenzene	12.477	95	2655	67.634	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 135.260%			
Target Compounds						Qvalue
3) Chloromethane	2.119	50	318	9.372	ug/l	# 77
5) Bromomethane	2.674	94	241	8.855	ug/l	# 2
10) Methyl Iodide	4.107	142	524	14.672	ug/l	# 91
11) Tert butyl alcohol	5.088	59	22	Below Cal	#	89
13) Acrolein	3.686	56	41	Below Cal	#	14
15) Acrylonitrile	5.210	53	20	2.167	ug/l	# 17
16) Acetone	3.960	43	72	7.144	ug/l	# 46
25) 2-Butanone	6.960	43	51	4.111	ug/l	# 49
29) Tetrahydrofuran	7.191	42	20	2.542	ug/l	# 35
31) Cyclohexane	7.795	56	76	1.697	ug/l	# 17
36) 1,1-Dichloropropene	7.783	75	84	1.823	ug/l	# 41
38) Carbon Tetrachloride	7.777	117	109	2.050	ug/l	# 12
48) Methyl methacrylate	9.276	41	80	3.078	ug/l	# 42
51) 4-Methyl-2-Pentanone	10.051	43	54	1.784	ug/l	# 39
58) 2-Chloroethyl Vinyl ether	10.014	63	20	29.631	ug/l	# 48
59) 2-Hexanone	10.843	43	108	4.939	ug/l	# 27
66) 1,1,1,2-Tetrachloroethane	11.806	131	102	2.147	ug/l	# 1
73) Isopropylbenzene	12.477	105	175	1.298	ug/l	90
75) 1,1,2,2-Tetrachloroethane	12.568	83	172	5.707	ug/l	# 21
76) 1,2,3-Trichloropropane	12.477	75	973	41.947	ug/l	# 100
77) Bromobenzene	12.416	156	68	1.918	ug/l	# 17
81) trans-1,4-Dichloro-2-b...	12.477	75	973	90.674	ug/l	# 17
82) 4-Chlorotoluene	12.849	91	162	1.613	ug/l	# 40
83) tert-Butylbenzene	13.074	119	145	1.477	ug/l	# 26
84) 1,2,4-Trimethylbenzene	13.105	105	195	1.706	ug/l	# 32
86) p-Isopropyltoluene	13.361	119	173	1.417	ug/l	# 32
89) n-Butylbenzene	13.891	91	186	1.642	ug/l	74
90) Hexachloroethane	13.977	117	130	5.343	ug/l	# 8
95) Naphthalene	15.245	128	261	3.339	ug/l	# 69

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

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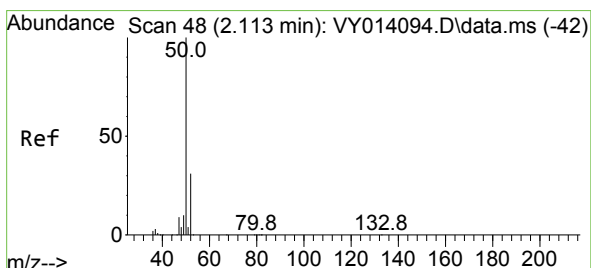
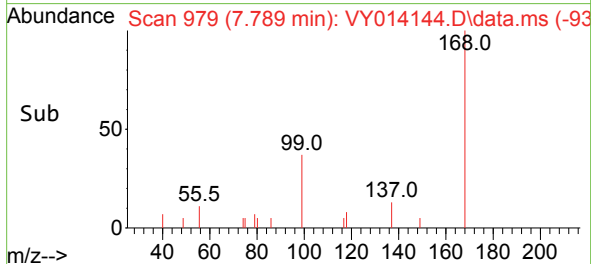
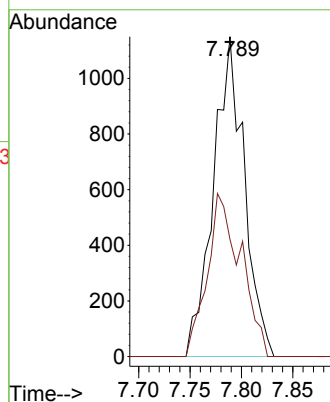
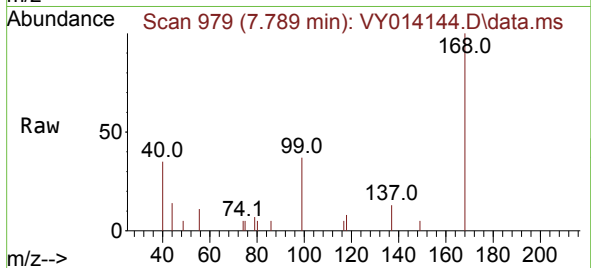




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

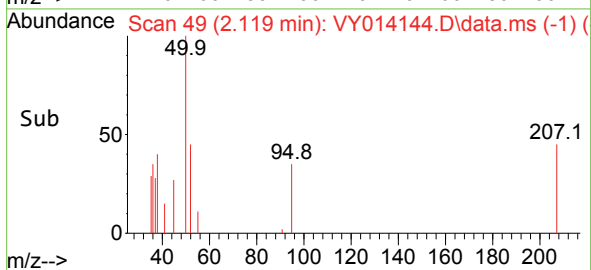
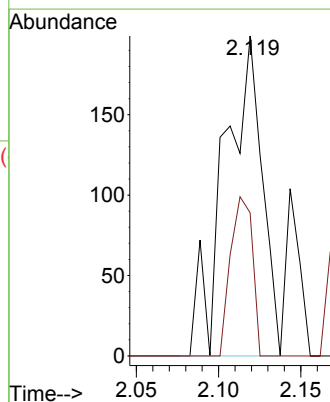
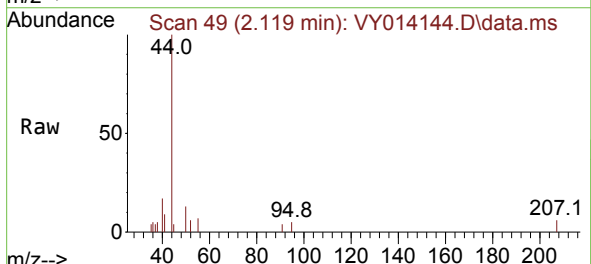
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

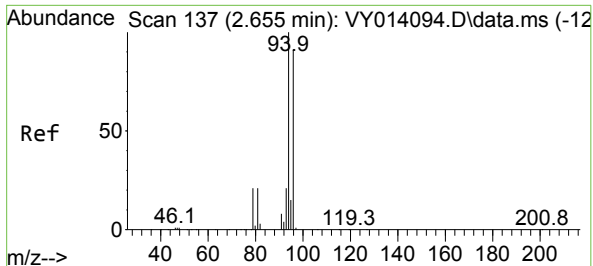
Tgt Ion:168 Resp: 2401
Ion Ratio Lower Upper
168 100
99 36.7 43.4 65.0#



#3
Chloromethane
Concen: 9.372 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion: 50 Resp: 318
Ion Ratio Lower Upper
50 100
52 44.7 25.4 38.2#

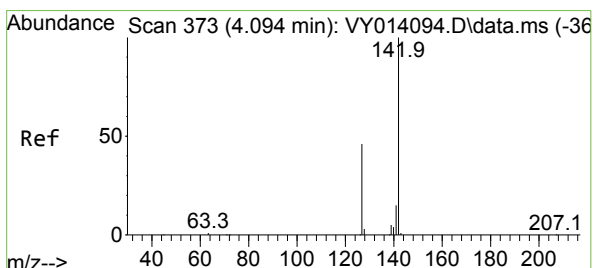
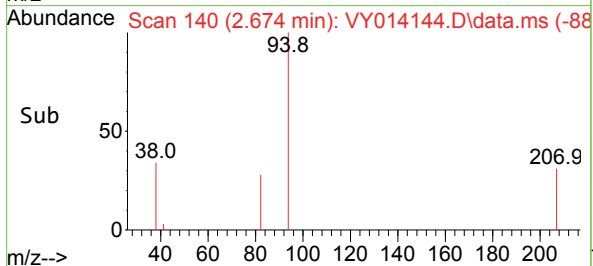
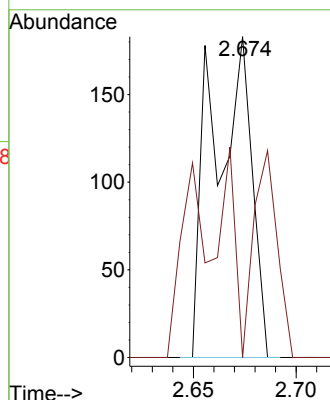
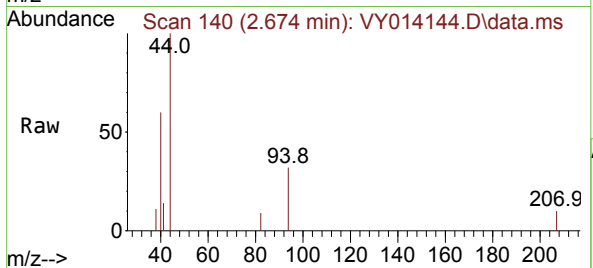




#5
Bromomethane
Concen: 8.855 ug/l
RT: 2.674 min Scan# 14
Delta R.T. 0.019 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

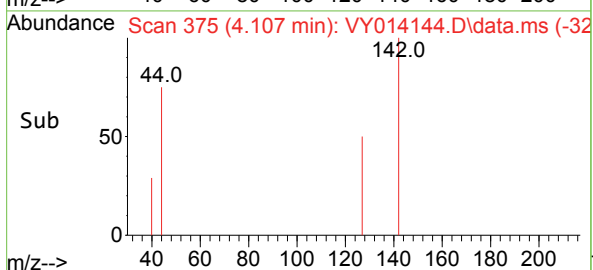
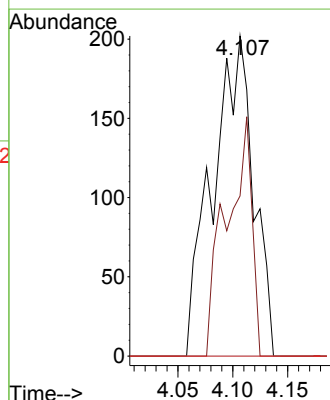
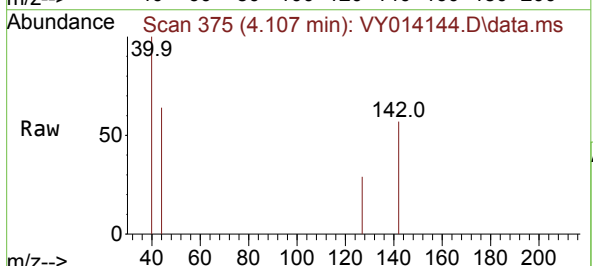
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

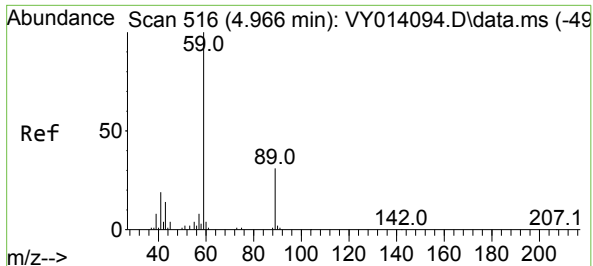
Tgt Ion: 94 Resp: 241
Ion Ratio Lower Upper
94 100
96 0.0 75.8 113.6#



#10
Methyl Iodide
Concen: 14.672 ug/l
RT: 4.107 min Scan# 375
Delta R.T. 0.013 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion: 142 Resp: 524
Ion Ratio Lower Upper
142 100
127 46.2 37.6 56.4
141 0.0 11.8 17.8#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.088 min Scan# 51

Delta R.T. 0.122 min

Lab File: VY014144.D

Acq: 13 Jun 2023 17:03

Instrument :

MSVOA_Y

ClientSampleId :

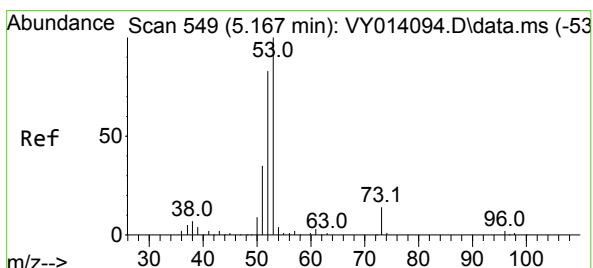
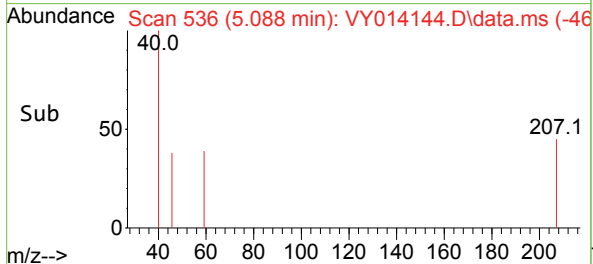
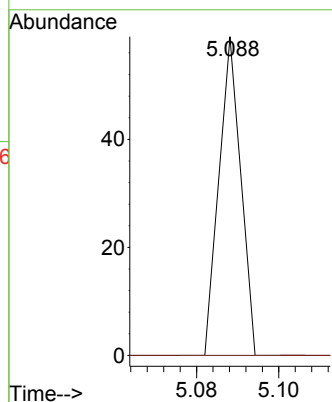
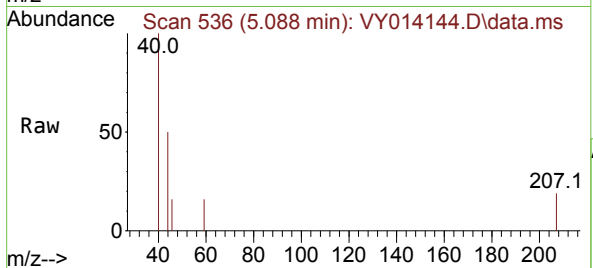
TEST-PIT-6-12-23

Tgt Ion: 59 Resp: 22

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#



#15

Acrylonitrile

Concen: 2.167 ug/l

RT: 5.210 min Scan# 556

Delta R.T. 0.043 min

Lab File: VY014144.D

Acq: 13 Jun 2023 17:03

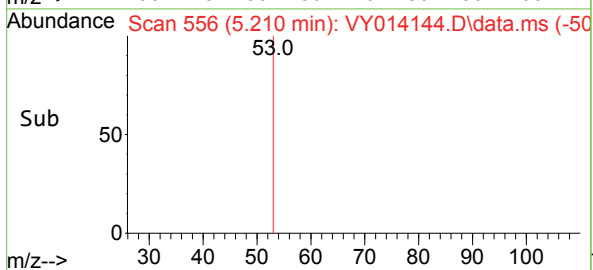
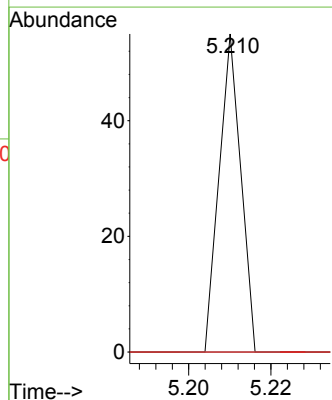
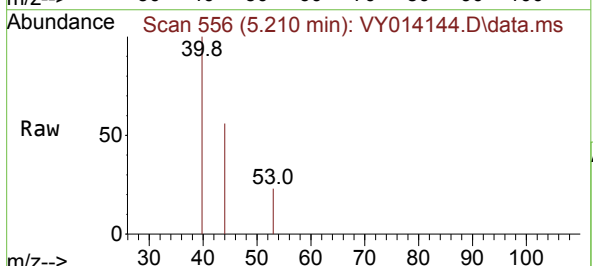
Tgt Ion: 53 Resp: 20

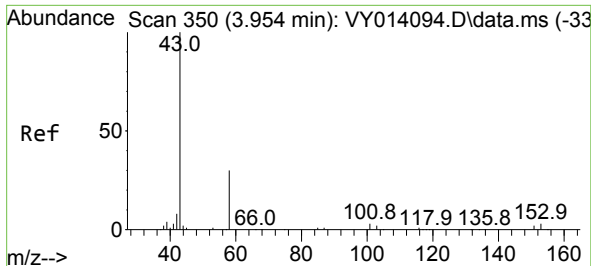
Ion Ratio Lower Upper

53 100

52 0.0 66.9 100.3#

51 0.0 29.8 44.6#

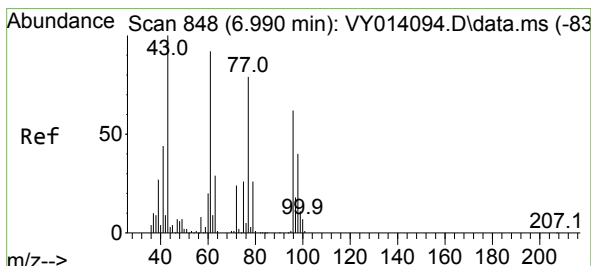
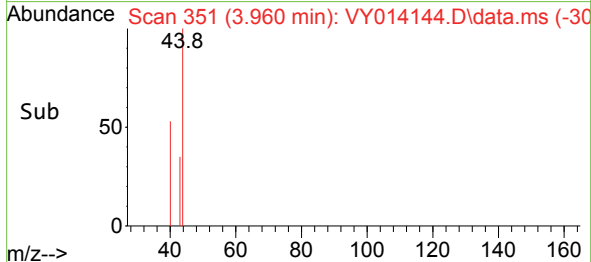
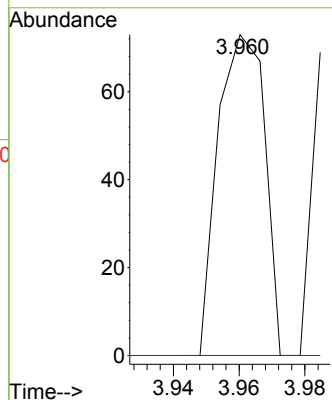
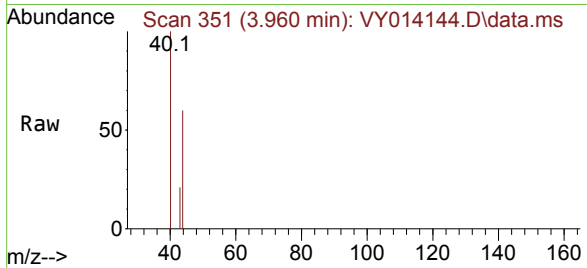




#16
Acetone
Concen: 7.144 ug/l
RT: 3.960 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

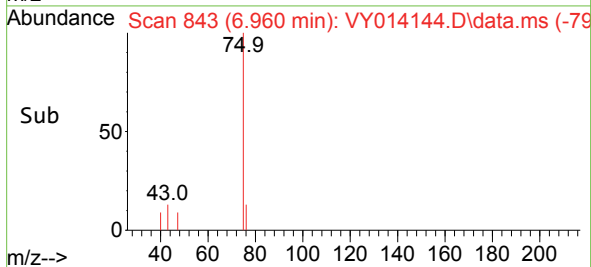
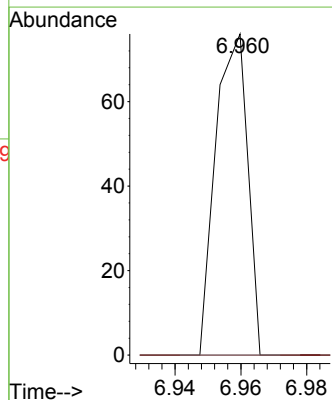
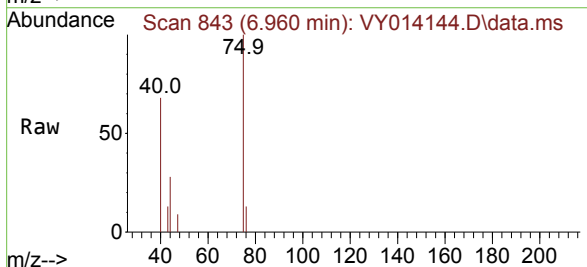
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

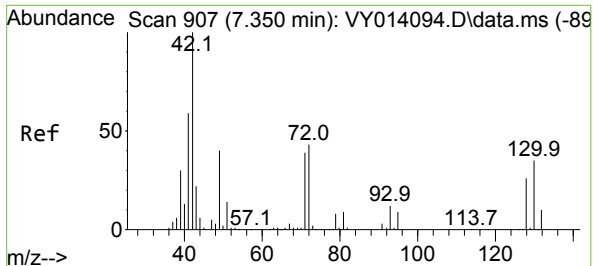
Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
58 0.0 22.7 34.1#



#25
2-Butanone
Concen: 4.111 ug/l
RT: 6.960 min Scan# 843
Delta R.T. -0.030 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion: 43 Resp: 51
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#





#29

Tetrahydrofuran

Concen: 2.542 ug/l

RT: 7.191 min Scan# 81

Delta R.T. -0.159 min

Lab File: VY014144.D

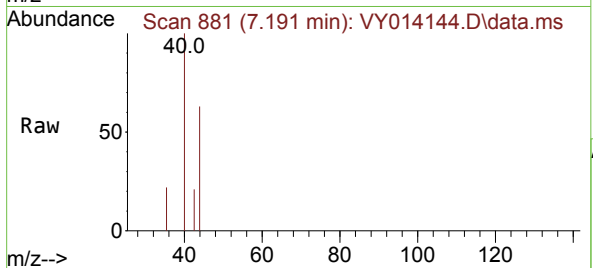
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Instrument :

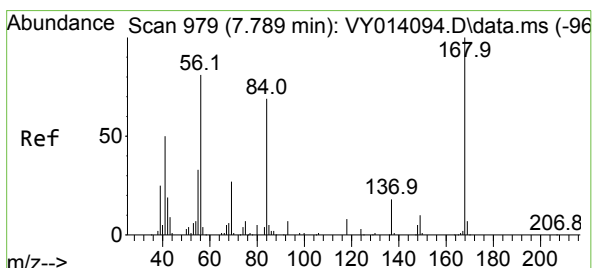
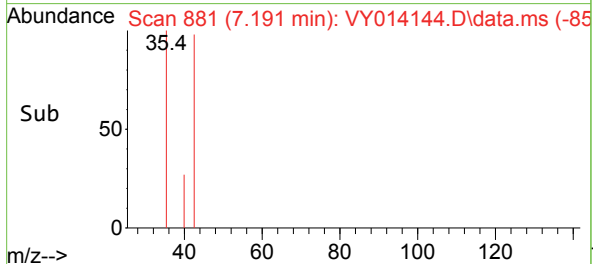
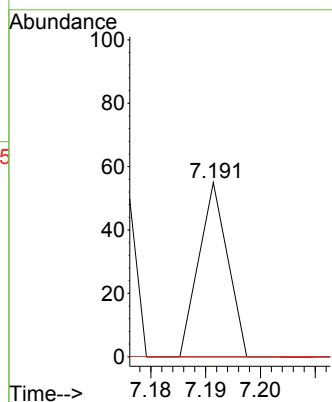
MSVOA_Y

ClientSampleId :

TEST-PIT-6-12-23



Tgt Ion:	42	Resp:	20
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.8	49.2#
71	0.0	31.0	46.4#



#31

Cyclohexane

Concen: 1.697 ug/l

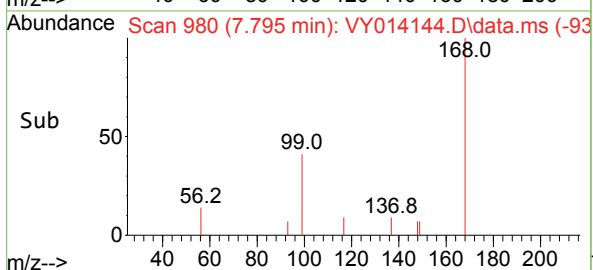
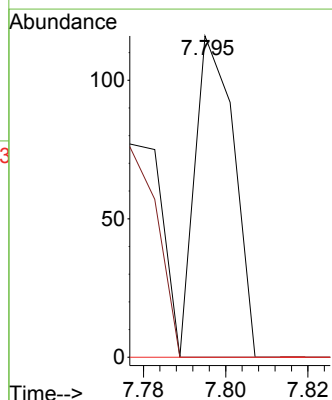
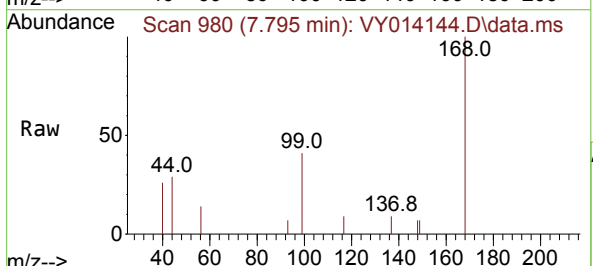
RT: 7.795 min Scan# 980

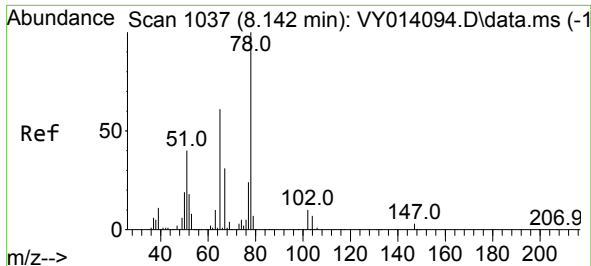
Delta R.T. 0.006 min

Lab File: VY014144.D

Acq: 13 Jun 2023 17:03

Tgt Ion:	56	Resp:	76
Ion	Ratio	Lower	Upper
56	100		
69	0.0	27.8	41.6#
84	0.0	66.4	99.6#

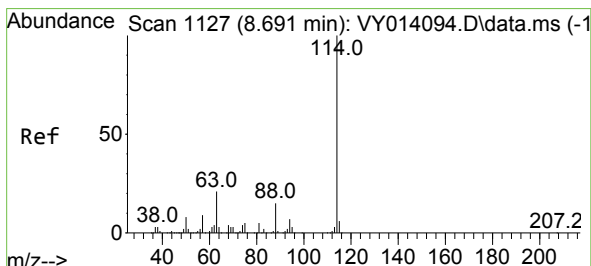
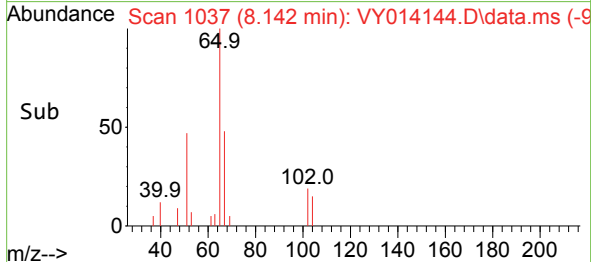
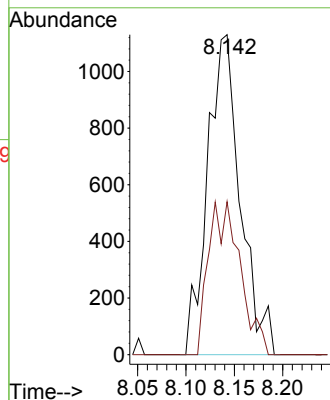
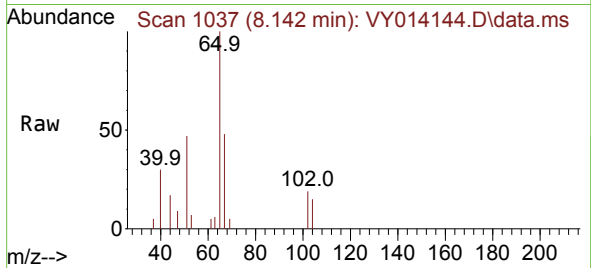




#33
 1,2-Dichloroethane-d4
 Concen: 79.768 ug/l
 RT: 8.142 min Scan# 1037
 Delta R.T. 0.000 min
 Lab File: VY014144.D
 Acq: 13 Jun 2023 17:03

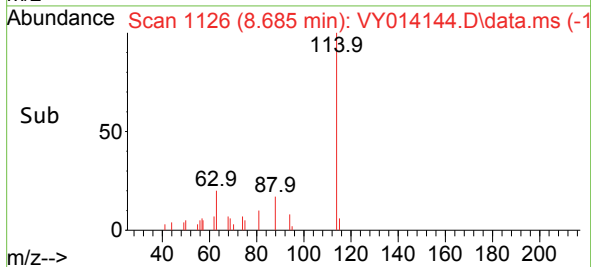
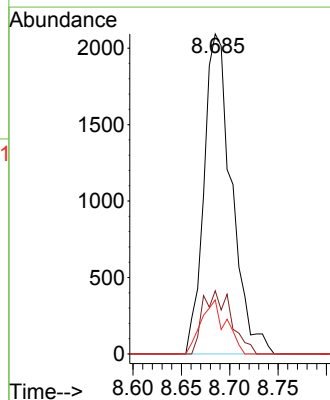
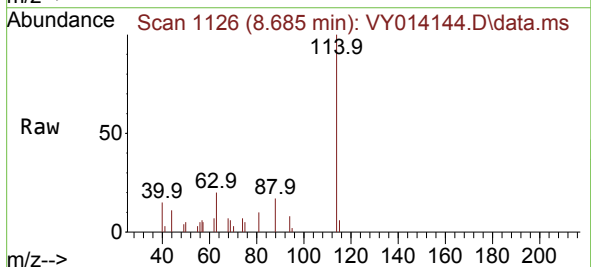
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 TEST-PIT-6-12-23

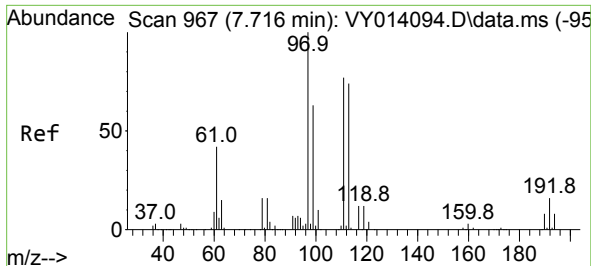
Tgt Ion: 65 Resp: 2667
 Ion Ratio Lower Upper
 65 100
 67 46.2 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. -0.006 min
 Lab File: VY014144.D
 Acq: 13 Jun 2023 17:03

Tgt Ion: 114 Resp: 4168
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 42.4
 88 16.9 0.0 30.6

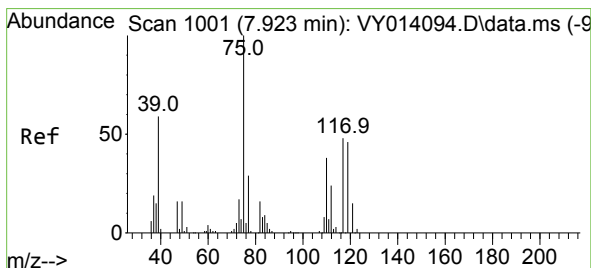
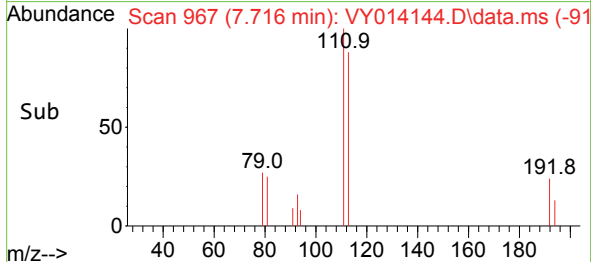
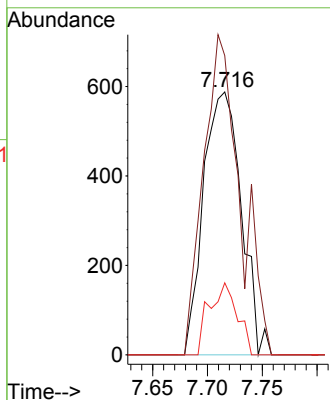
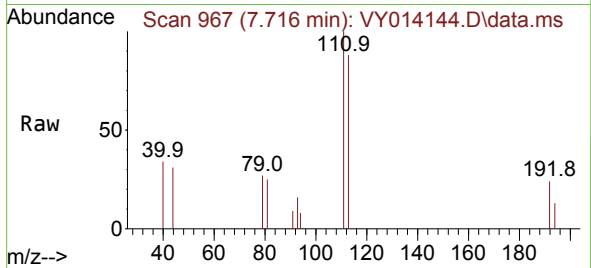




#35
Dibromofluoromethane
Concen: 47.634 ug/l
RT: 7.716 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

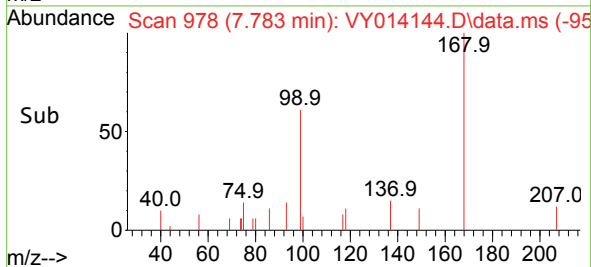
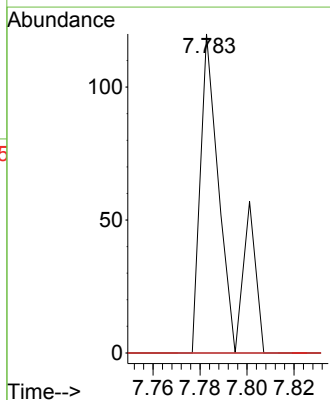
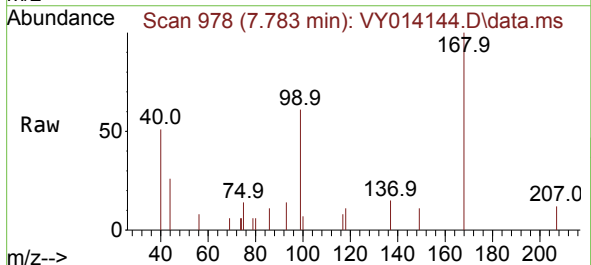
Instrument :
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ClientSampleId :
TEST-PIT-6-12-23

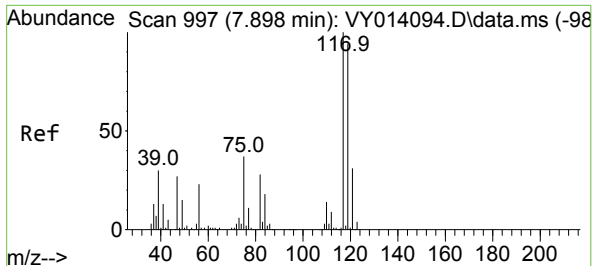
Tgt Ion:113 Resp: 1408
Ion Ratio Lower Upper
113 100
111 117.8 81.3 121.9
192 20.3 16.9 25.3



#36
1,1-Dichloropropene
Concen: 1.823 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.140 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

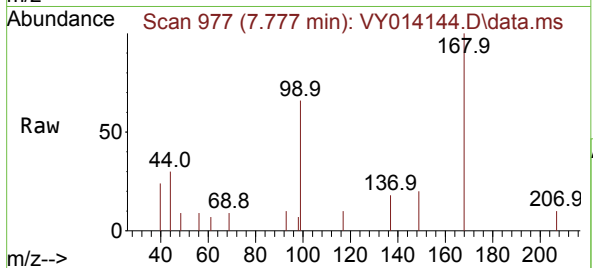
Tgt Ion: 75 Resp: 84
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.5#
77 0.0 24.4 36.6#



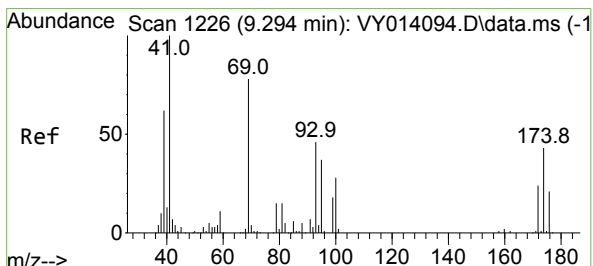
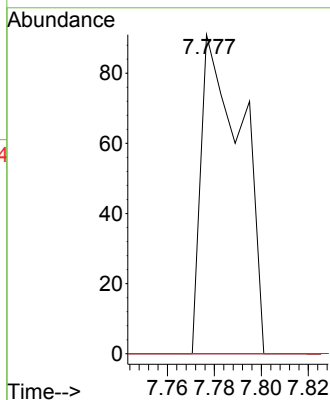
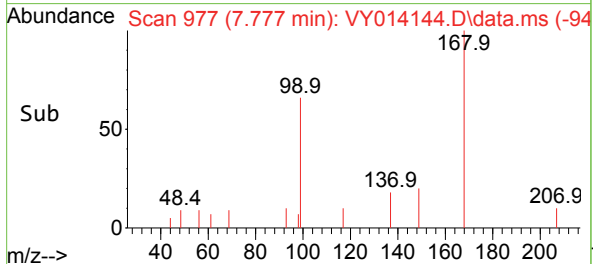


#38
Carbon Tetrachloride
Concen: 2.050 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.121 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

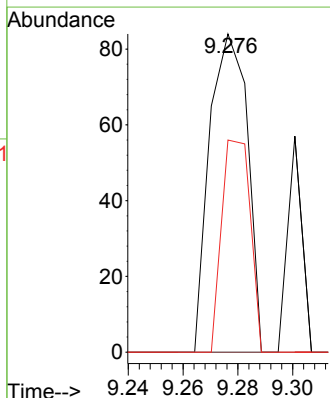
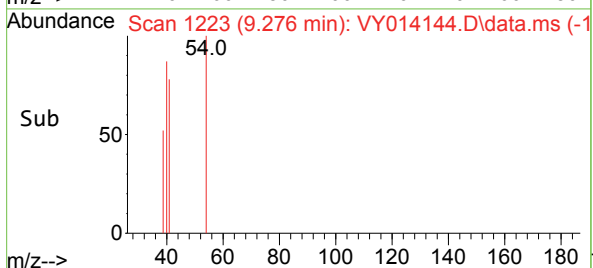
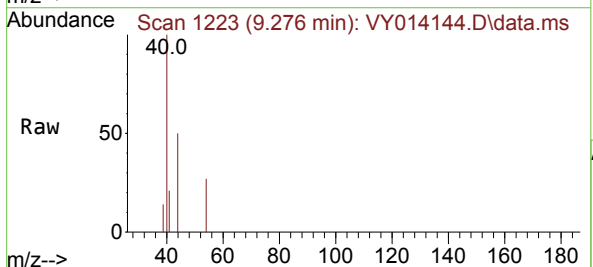


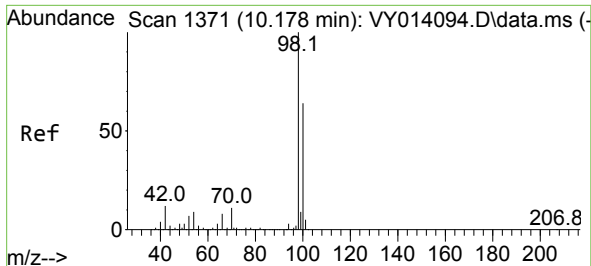
Tgt Ion:117 Resp: 109
Ion Ratio Lower Upper
117 100
119 0.0 76.4 114.6#
121 0.0 25.8 38.6#



#48
Methyl methacrylate
Concen: 3.078 ug/l
RT: 9.276 min Scan# 1223
Delta R.T. -0.018 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion: 41 Resp: 80
Ion Ratio Lower Upper
41 100
69 0.0 64.5 96.7#
39 51.2 50.8 76.2

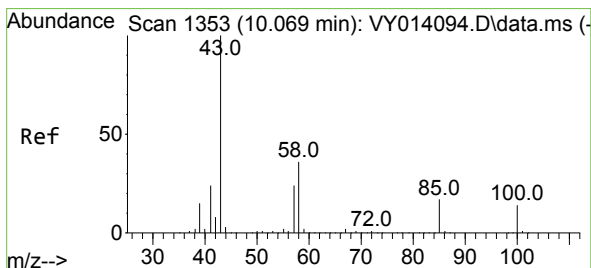
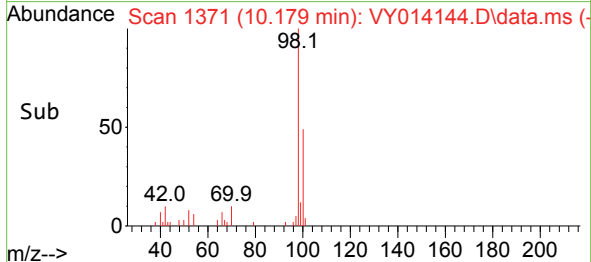
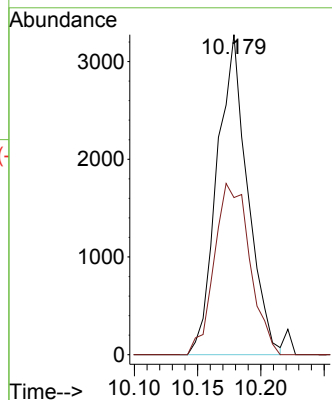
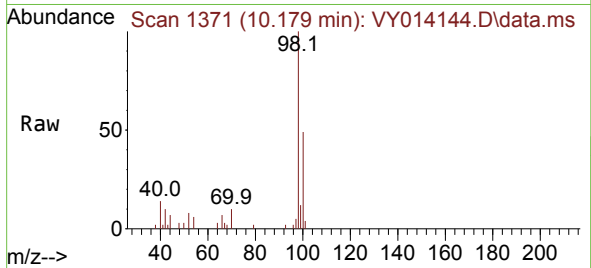




#50
Toluene-d8
Concen: 49.644 ug/l
RT: 10.179 min Scan# 11
Delta R.T. 0.001 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

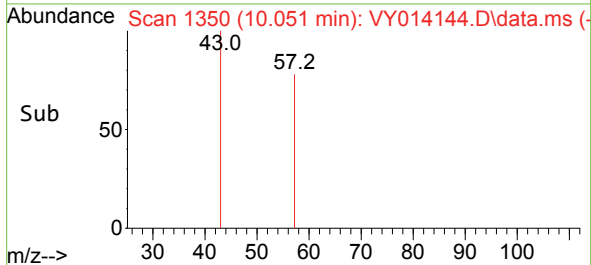
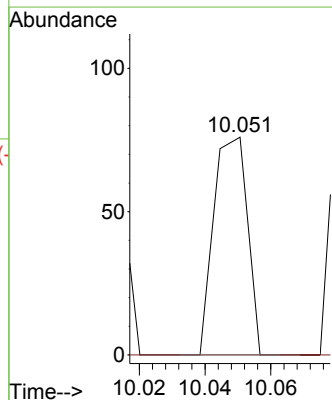
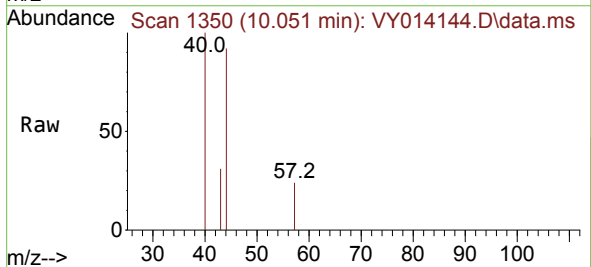
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

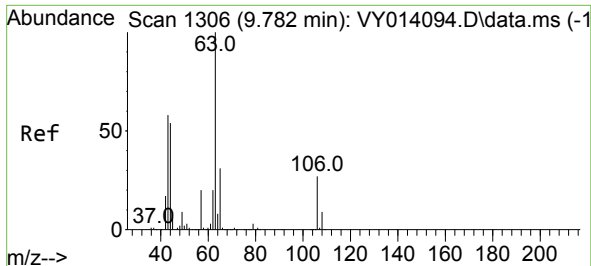
Tgt Ion: 98 Resp: 5486
Ion Ratio Lower Upper
98 100
100 62.4 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 1.784 ug/l
RT: 10.051 min Scan# 1350
Delta R.T. -0.018 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#

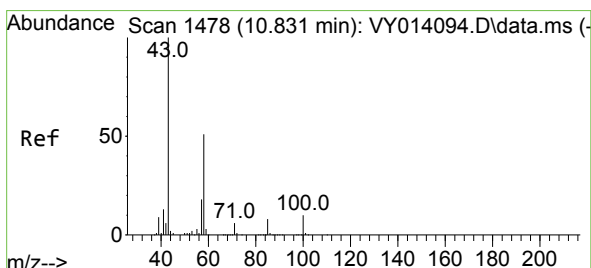
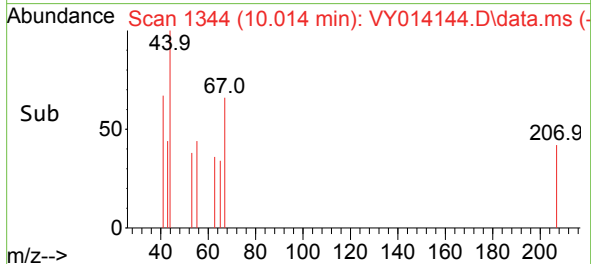
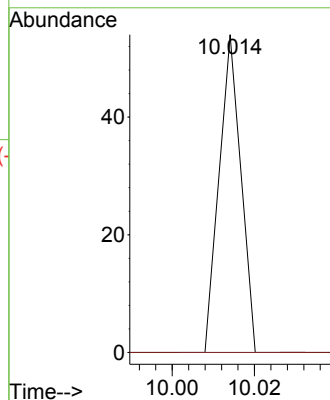
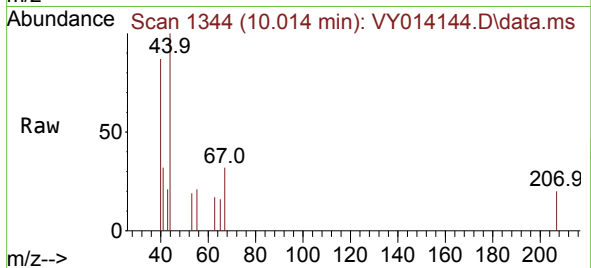




#58
2-Chloroethyl Vinyl ether
Concen: 29.631 ug/l
RT: 10.014 min Scan# 11
Delta R.T. 0.232 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

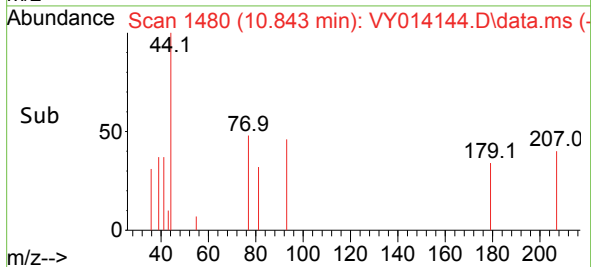
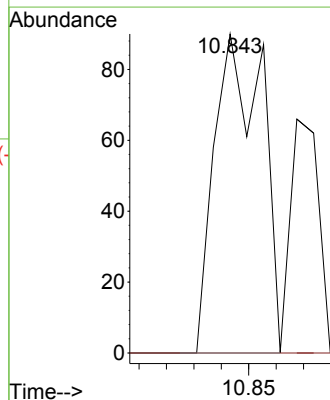
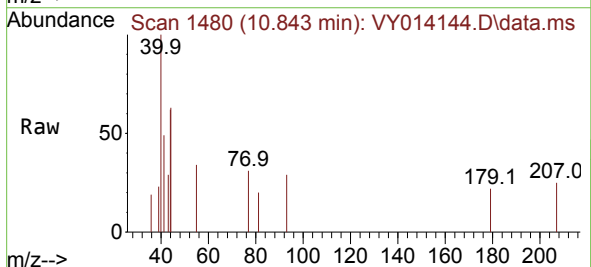
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

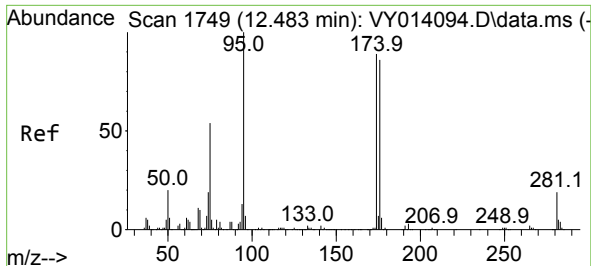
Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
106 0.0 21.2 31.8#



#59
2-Hexanone
Concen: 4.939 ug/l
RT: 10.843 min Scan# 1480
Delta R.T. 0.012 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion: 43 Resp: 108
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.3#

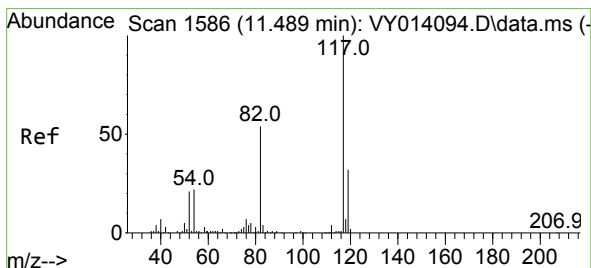
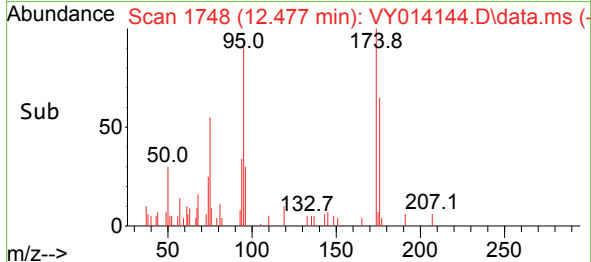
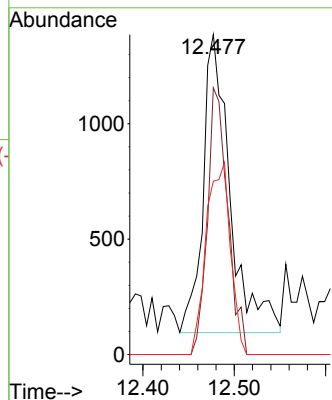
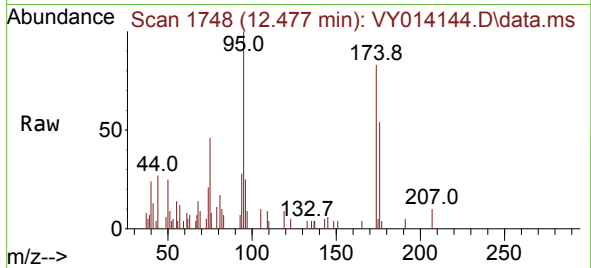




#62
4-Bromofluorobenzene
Concen: 67.634 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

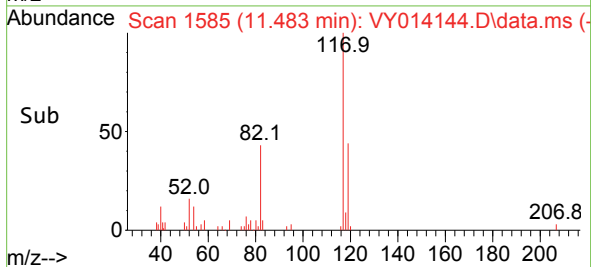
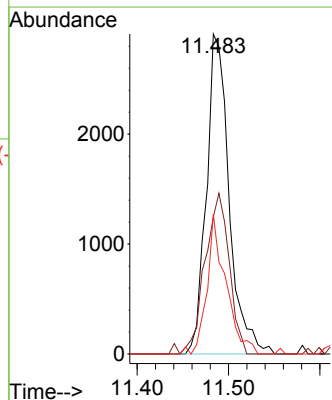
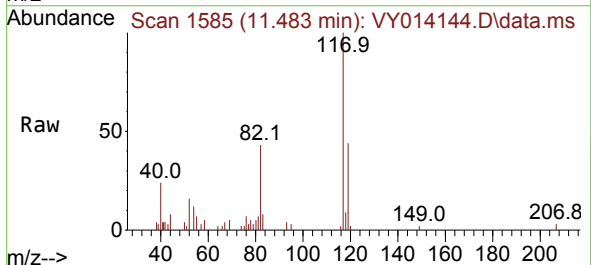
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

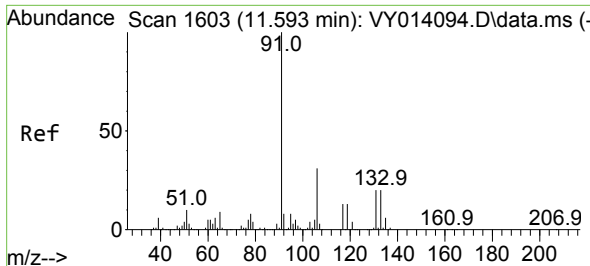
Tgt Ion: 95 Resp: 2655
Ion Ratio Lower Upper
95 100
174 67.2 0.0 178.2
176 57.6 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 1585
Delta R.T. -0.006 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion: 117 Resp: 5026
Ion Ratio Lower Upper
117 100
82 42.8 43.4 65.0#
119 43.7 26.3 39.5#

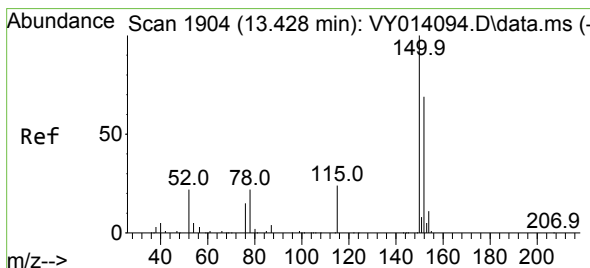
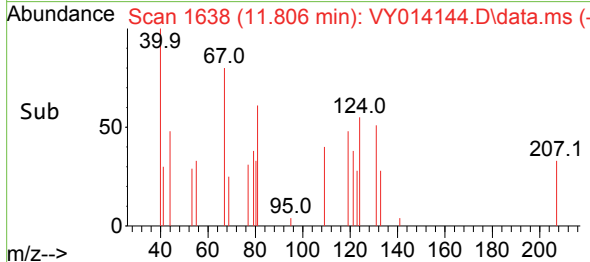
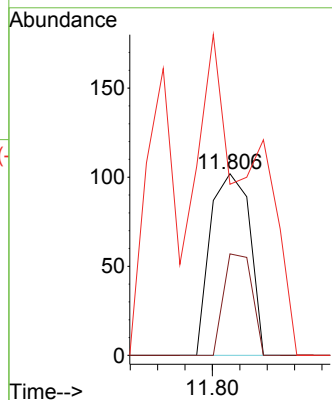
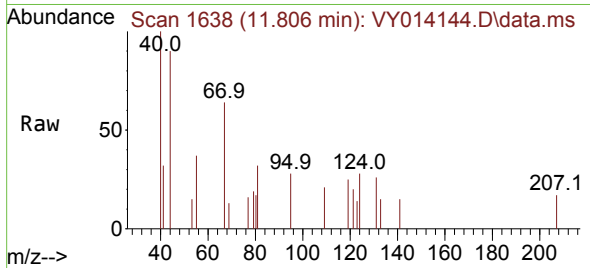




#66
1,1,1,2-Tetrachloroethane
Concen: 2.147 ug/l
RT: 11.806 min Scan# 1638
Delta R.T. 0.213 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

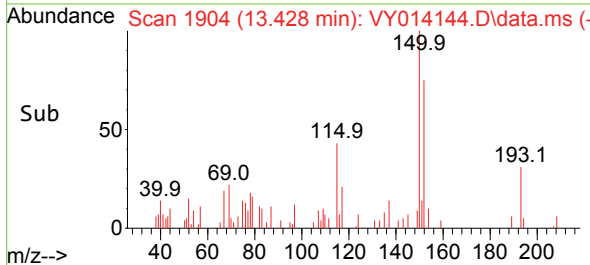
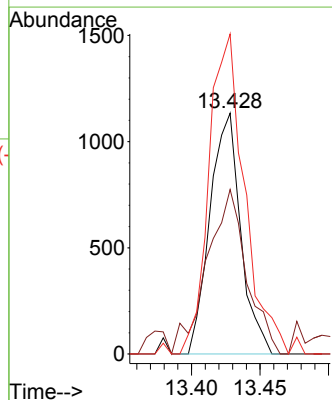
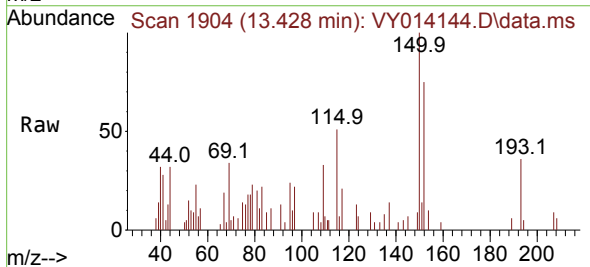
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

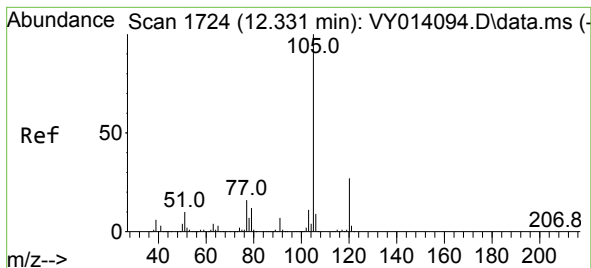
Tgt Ion:131 Resp: 102
Ion Ratio Lower Upper
131 100
133 40.2 47.5 142.6#
119 242.2 31.6 94.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion:152 Resp: 1768
Ion Ratio Lower Upper
152 100
115 87.8 28.8 86.5#
150 155.3 0.0 348.8





#73

Isopropylbenzene

Concen: 1.298 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.146 min

Lab File: VY014144.D

Acq: 13 Jun 2023 17:03

Instrument :

MSVOA_Y

ClientSampleId :

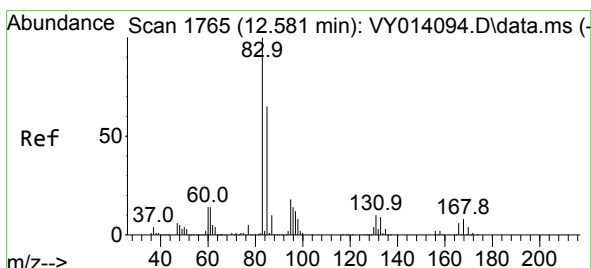
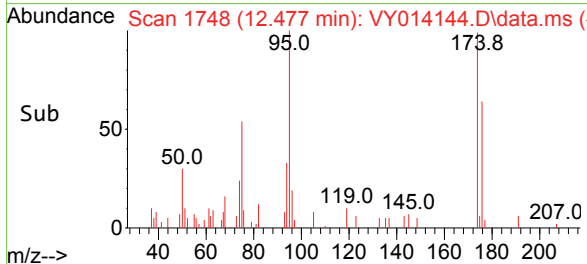
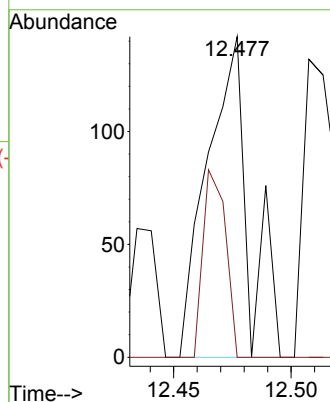
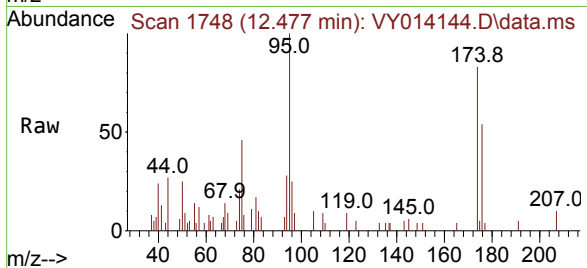
TEST-PIT-6-12-23

Tgt Ion:105 Resp: 175

Ion Ratio Lower Upper

105 100

120 32.0 13.3 39.9



#75

1,1,2,2-Tetrachloroethane

Concen: 5.707 ug/l

RT: 12.568 min Scan# 1763

Delta R.T. -0.013 min

Lab File: VY014144.D

Acq: 13 Jun 2023 17:03

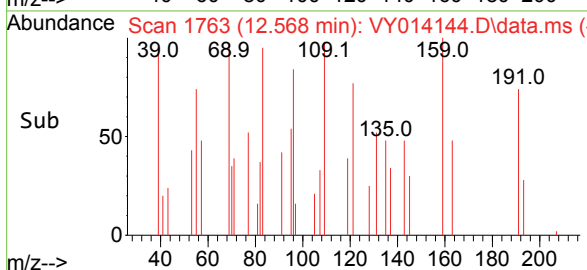
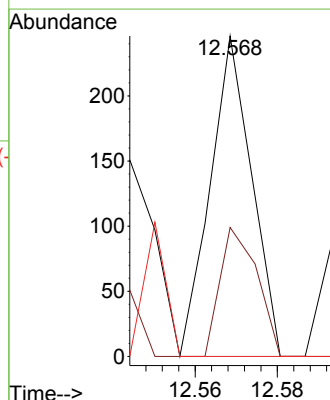
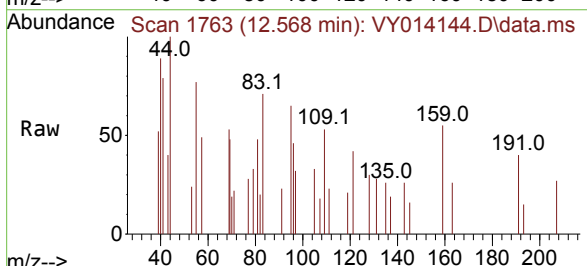
Tgt Ion: 83 Resp: 172

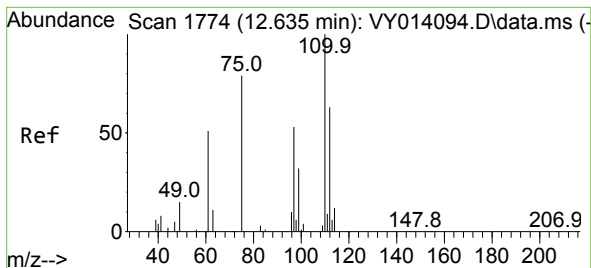
Ion Ratio Lower Upper

83 100

131 36.0 5.4 16.2#

85 0.0 31.8 95.4#

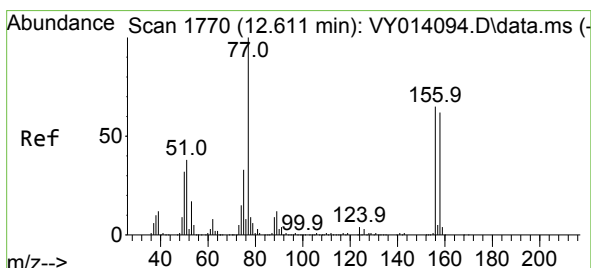
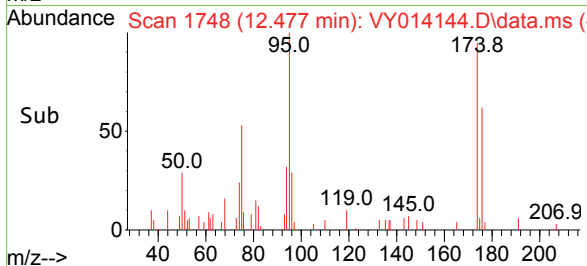
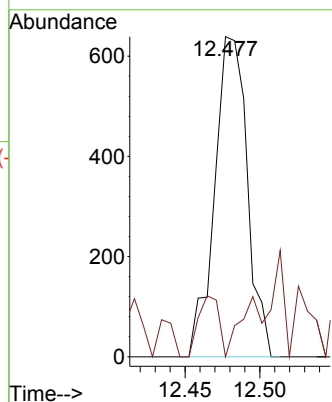
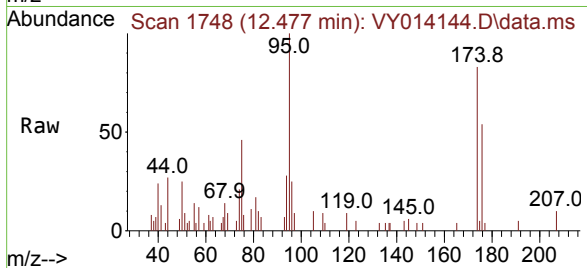




#76
1,2,3-Trichloropropane
Concen: 41.947 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.158 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

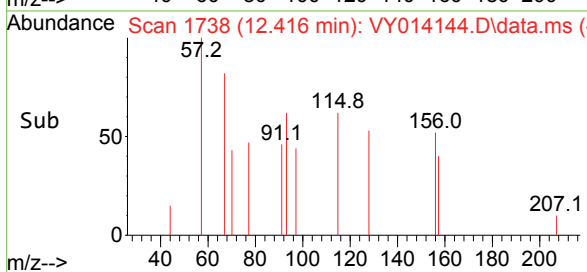
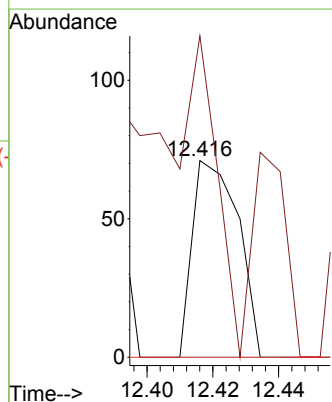
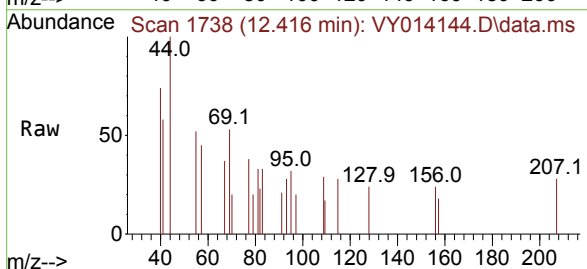
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

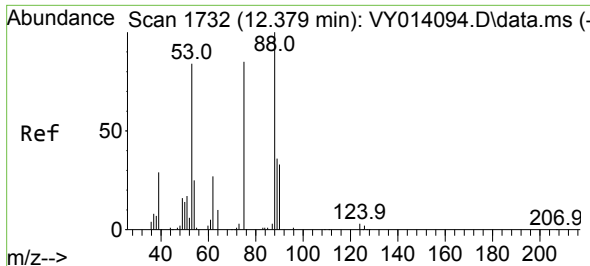
Tgt Ion: 75 Resp: 973
Ion Ratio Lower Upper
75 100
77 11.7 0.0 0.0#



#77
Bromobenzene
Concen: 1.918 ug/l
RT: 12.416 min Scan# 1738
Delta R.T. -0.195 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion: 156 Resp: 68
Ion Ratio Lower Upper
156 100
77 76.5 92.8 278.6#
158 0.0 48.4 145.3#

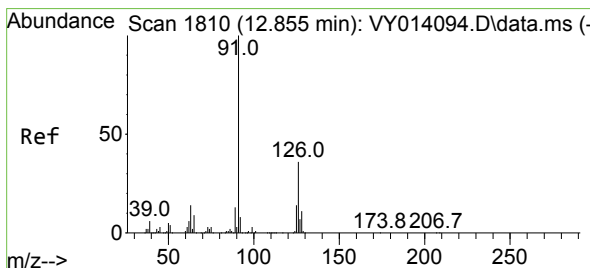
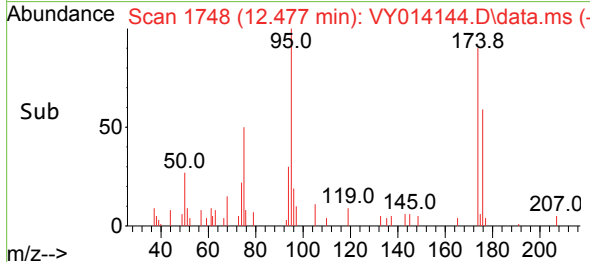
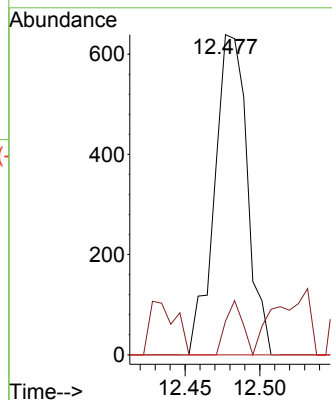
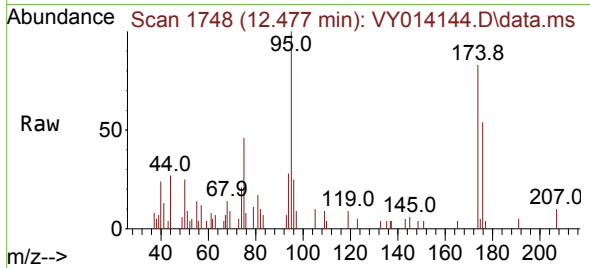




#81
trans-1,4-Dichloro-2-butene
Concen: 90.674 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

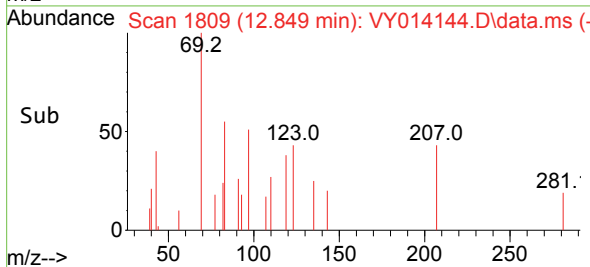
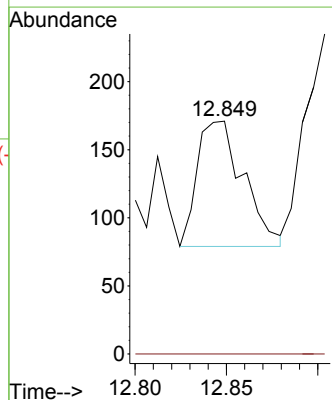
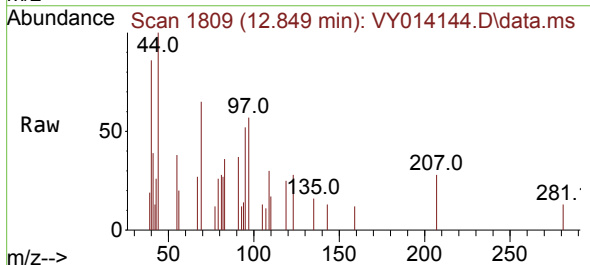
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

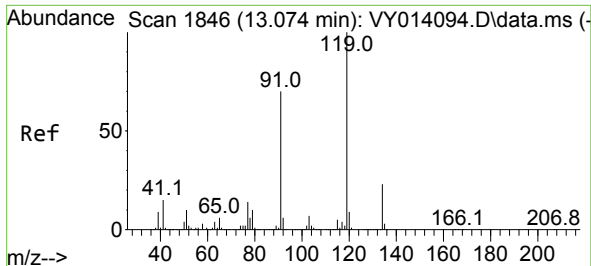
Tgt Ion: 75 Resp: 973
Ion Ratio Lower Upper
75 100
53 8.8 77.8 116.8#
89 0.0 37.4 56.0#



#82
4-Chlorotoluene
Concen: 1.613 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. -0.006 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion: 91 Resp: 162
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#

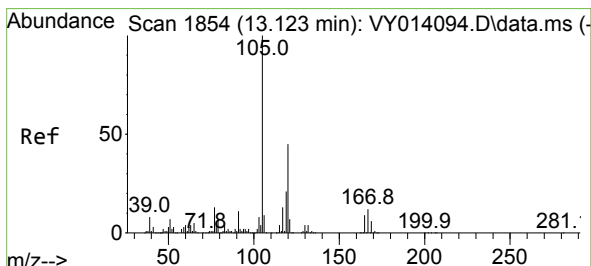
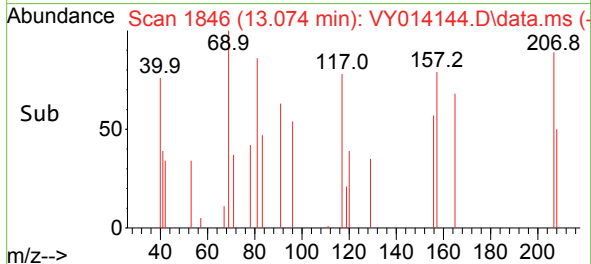
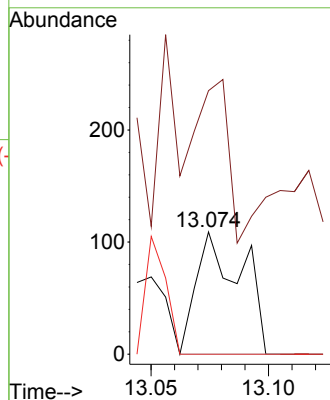
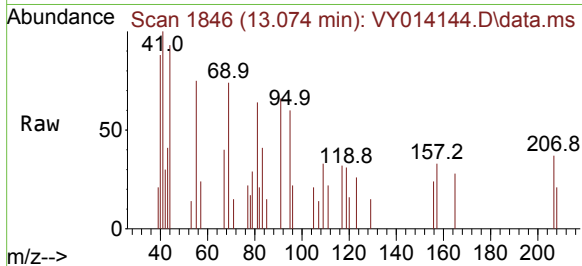




#83
tert-Butylbenzene
Concen: 1.477 ug/l
RT: 13.074 min Scan# 1846
Delta R.T. 0.000 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

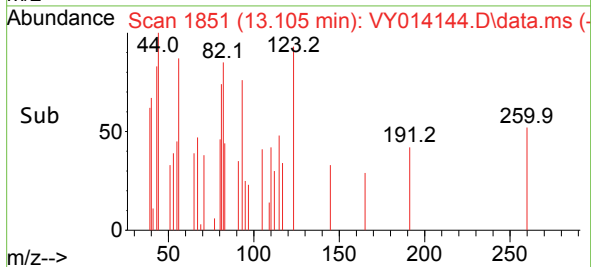
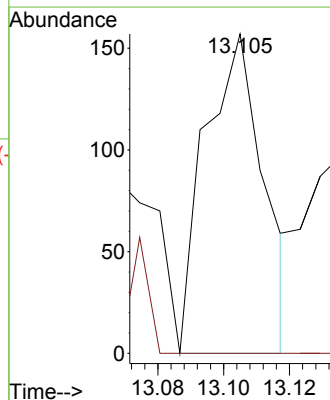
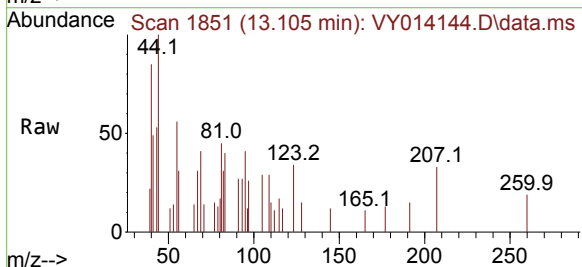
Instrument :
MSVOA_Y
ClientSampleId :
TEST-PIT-6-12-23

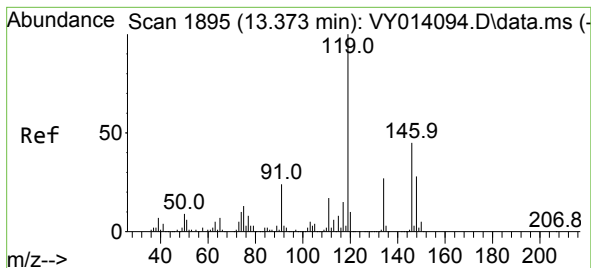
Tgt Ion:	119	Resp:	145
Ion	Ratio	Lower	Upper
119	100		
91	0.0	32.9	98.6#
134	0.0	13.0	38.9#



#84
1,2,4-Trimethylbenzene
Concen: 1.706 ug/l
RT: 13.105 min Scan# 1851
Delta R.T. -0.018 min
Lab File: VY014144.D
Acq: 13 Jun 2023 17:03

Tgt Ion:	105	Resp:	195
Ion	Ratio	Lower	Upper
105	100		
120	0.0	22.2	66.6#





#86

p-Isopropyltoluene

Concen: 1.417 ug/l

RT: 13.361 min Scan# 119

Delta R.T. -0.012 min

Lab File: VY014144.D

Acq: 13 Jun 2023 17:03

Instrument :

MSVOA_Y

ClientSampleId :

TEST-PIT-6-12-23

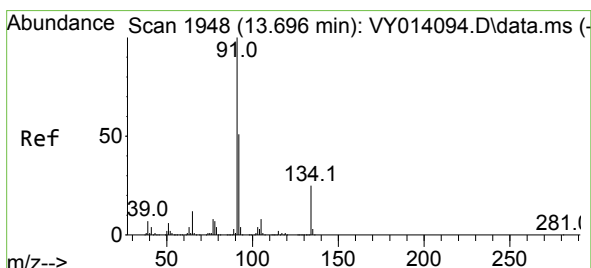
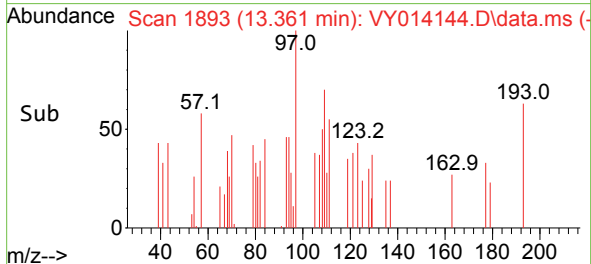
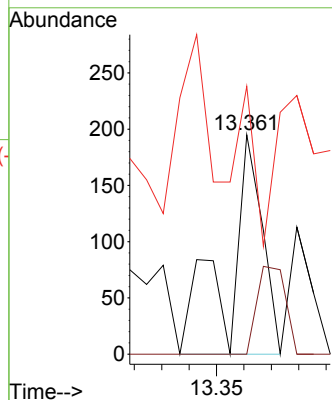
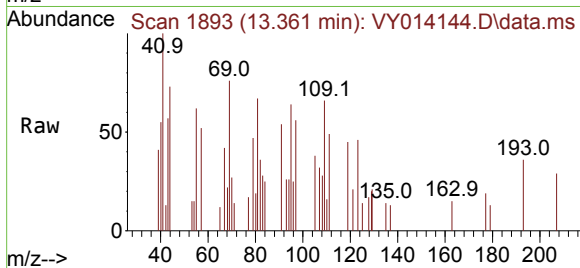
Tgt Ion:119 Resp: 173

Ion Ratio Lower Upper

119 100

134 32.4 13.3 39.8

91 89.0 12.4 37.4#



#89

n-Butylbenzene

Concen: 1.642 ug/l

RT: 13.891 min Scan# 1980

Delta R.T. 0.195 min

Lab File: VY014144.D

Acq: 13 Jun 2023 17:03

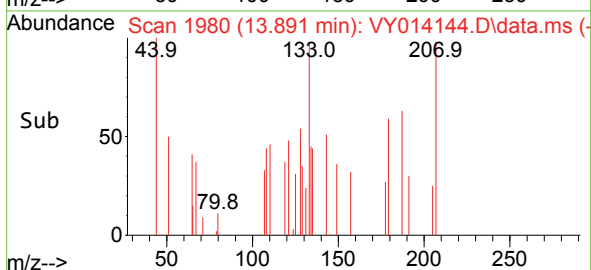
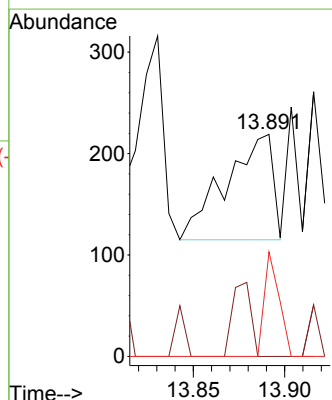
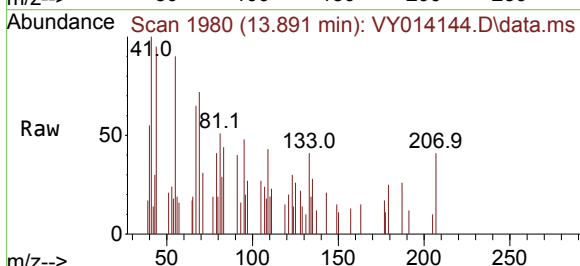
Tgt Ion: 91 Resp: 186

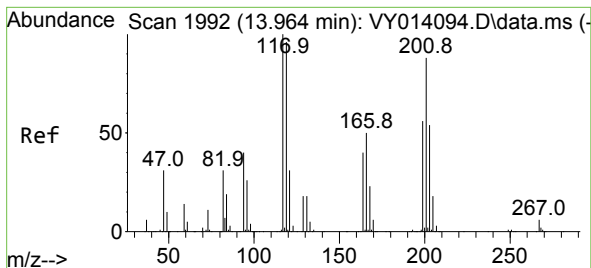
Ion Ratio Lower Upper

91 100

92 28.0 25.4 76.0

134 30.6 12.6 37.6





#90

Hexachloroethane

Concen: 5.343 ug/l

RT: 13.977 min Scan# 1994

Delta R.T. 0.013 min

Lab File: VY014144.D

Acq: 13 Jun 2023 17:03

Instrument :

MSVOA_Y

ClientSampleId :

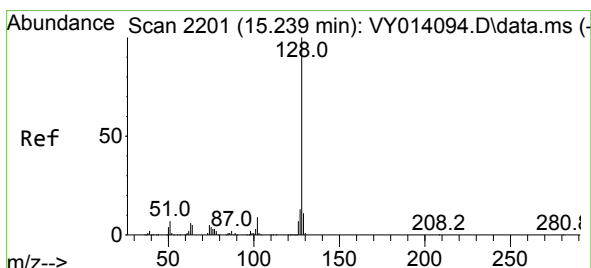
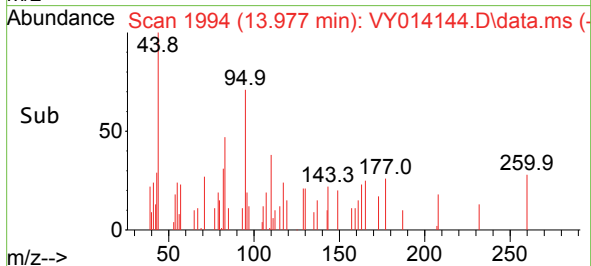
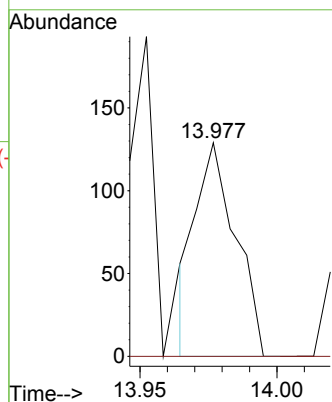
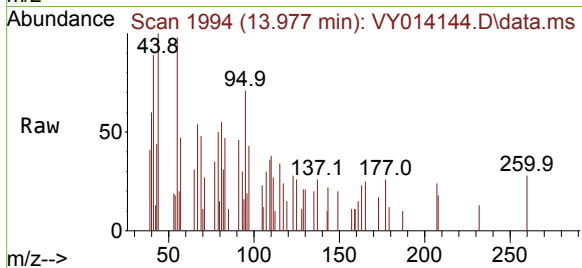
TEST-PIT-6-12-23

Tgt Ion:117 Resp: 130

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#95

Naphthalene

Concen: 3.339 ug/l

RT: 15.245 min Scan# 2202

Delta R.T. 0.006 min

Lab File: VY014144.D

Acq: 13 Jun 2023 17:03

Tgt Ion:128 Resp: 261

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 0.0 8.6 13.0#

