

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020724\
 Data File : VY017289.D
 Acq On : 07 Feb 2024 15:13
 Operator : SY/MD
 Sample : P1379-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RE137-CARBON-20240205

Quant Time: Feb 08 01:43:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020124S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 02 00:56:04 2024
 Response via : Initial Calibration

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

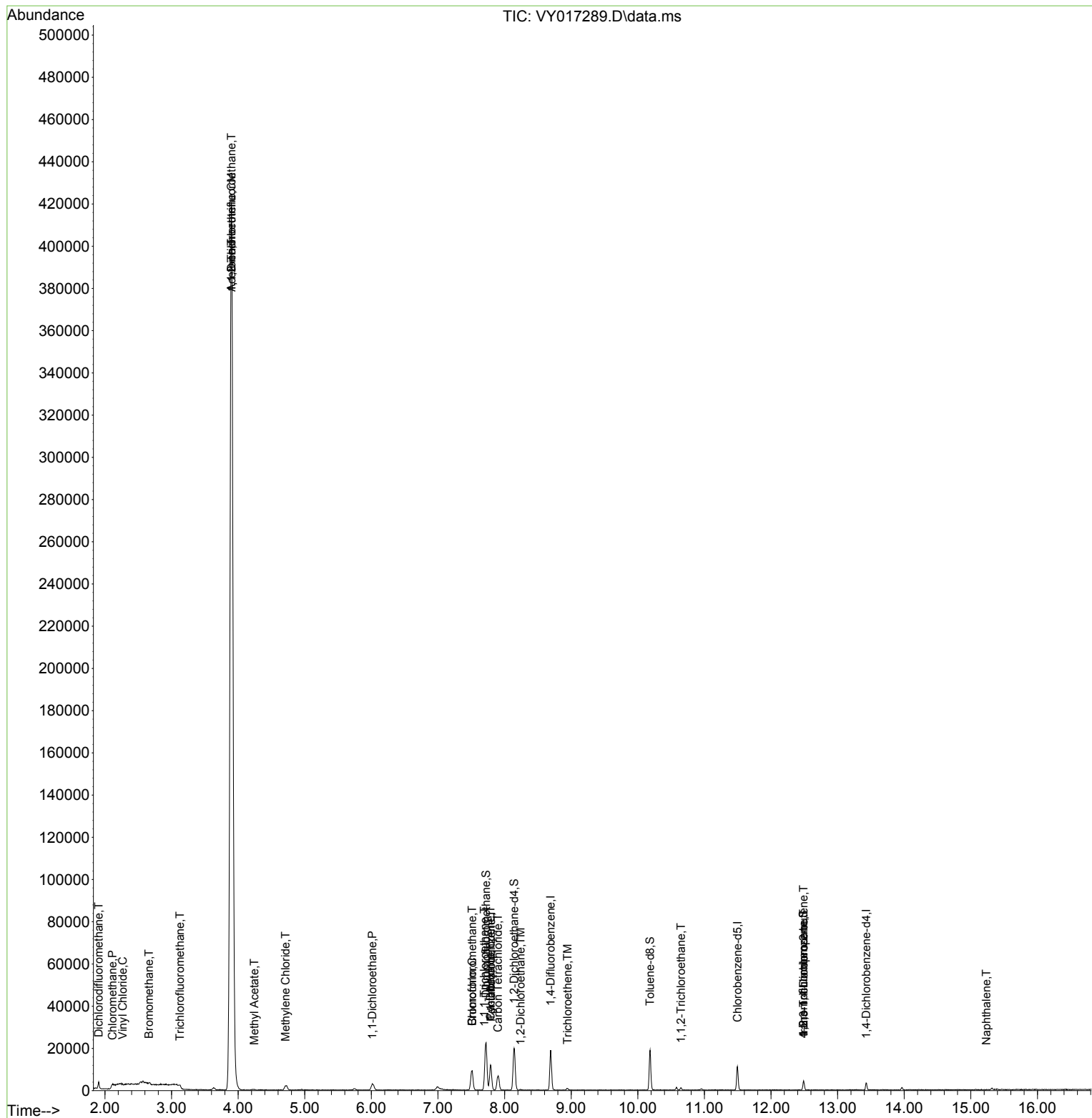
Internal Standards						
1) Pentafluorobenzene	7.795	168	8855	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	15244	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	6247	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	984	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	15550	196.574	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	393.140%#
35) Dibromofluoromethane	7.722	113	15332	186.276	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	372.560%#
50) Toluene-d8	10.185	98	12682	42.319	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	84.640%
62) 4-Bromofluorobenzene	12.483	95	1036	10.553	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	21.100%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.906	85	2478	36.915	ug/l	96
3) Chloromethane	2.113	50	213	1.766	ug/l #	41
4) Vinyl Chloride	2.266	62	149	1.014	ug/l #	43
5) Bromomethane	2.662	94	187	1.836	ug/l	84
7) Trichlorofluoromethane	3.125	101	2169	14.354	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.899	101	271244	2961.093	ug/l	96
11) Tert butyl alcohol	4.954	59	98	Below Cal	#	75
12) 1,1-Dichloroethene	3.899	96	874	10.183	ug/l #	35
16) Acetone	3.899	43	3669	157.806	ug/l #	83
18) Methyl Acetate	4.241	43	72	1.388	ug/l #	51
20) Methylene Chloride	4.710	84	1713	15.577	ug/l #	79
24) 1,1-Dichloroethane	6.015	63	4605	26.380	ug/l #	92
28) Bromochloromethane	7.515	49	804	12.029	ug/l #	14
30) Chloroform	7.515	83	8889	50.619	ug/l	93
31) Cyclohexane	7.789	56	224	1.405	ug/l #	1
32) 1,1,1-Trichloroethane	7.698	97	887	5.872	ug/l #	83
36) 1,1-Dichloropropene	7.789	75	908	6.395	ug/l #	42
38) Carbon Tetrachloride	7.899	117	4772	35.105	ug/l	94
42) 1,2-Dichloroethane	8.240	62	357	3.326	ug/l #	73
44) Trichloroethene	8.947	130	303	2.944	ug/l	61
55) 1,1,2-Trichloroethane	10.648	97	338	4.618	ug/l #	72
76) 1,2,3-Trichloropropane	12.489	75	659	72.560	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.489	75	659	150.769	ug/l #	12
95) Naphthalene	15.233	128	181	9.879	ug/l #	69

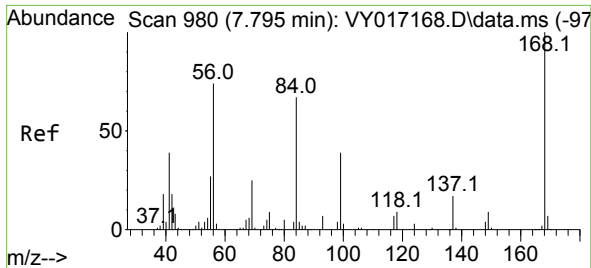
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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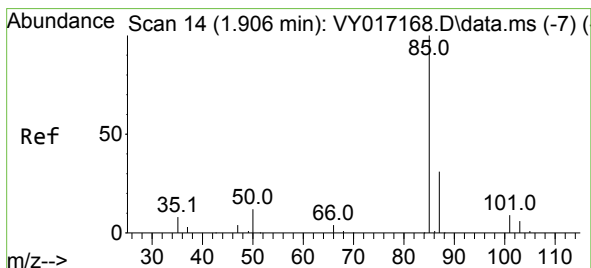
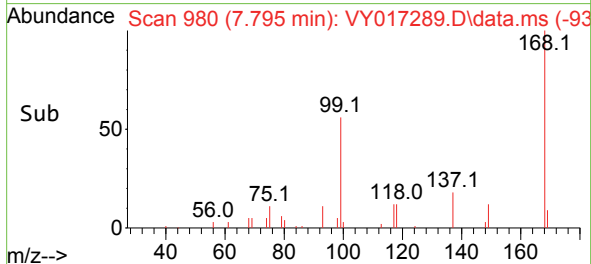
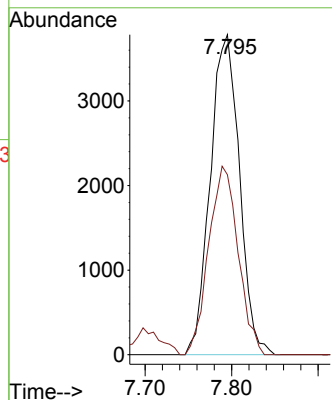
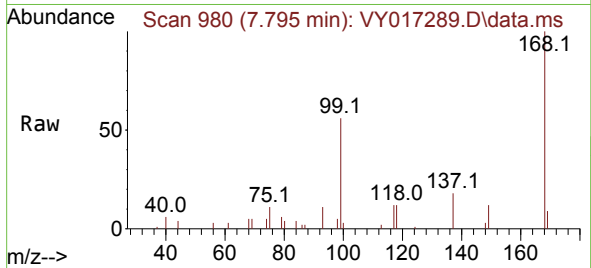




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

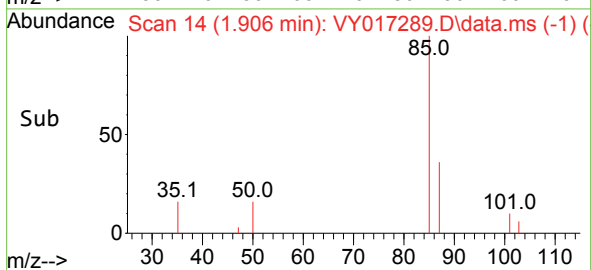
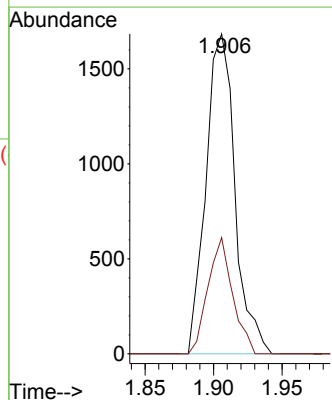
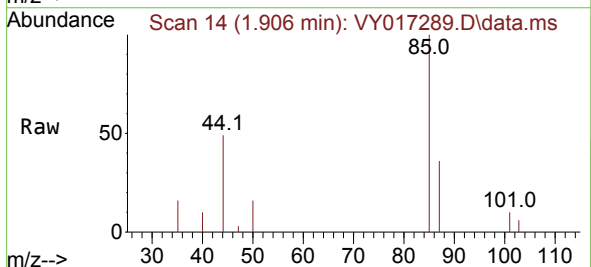
Instrument :
MSVOA_Y
ClientSampleId :
RE137-CARBON-20240205

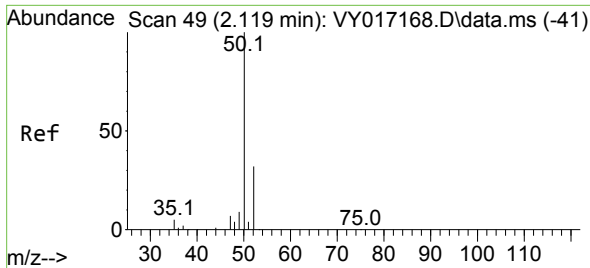
Tgt Ion:168 Resp: 8855
Ion Ratio Lower Upper
168 100
99 56.3 44.2 66.4



#2
Dichlorodifluoromethane
Concen: 36.915 ug/l
RT: 1.906 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 85 Resp: 2478
Ion Ratio Lower Upper
85 100
87 36.3 17.1 51.3

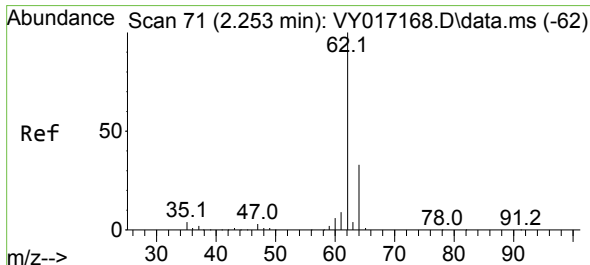
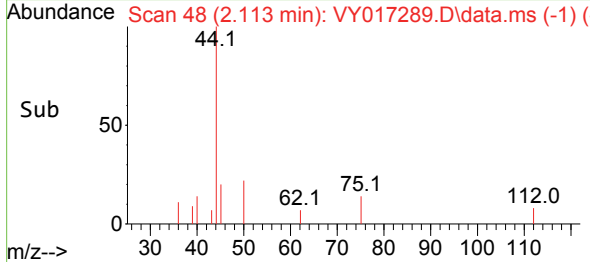
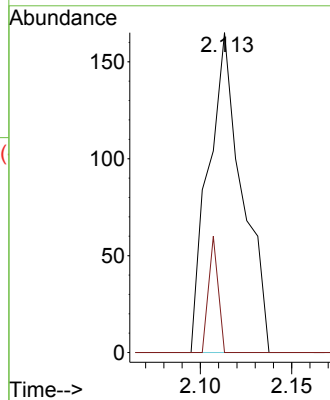
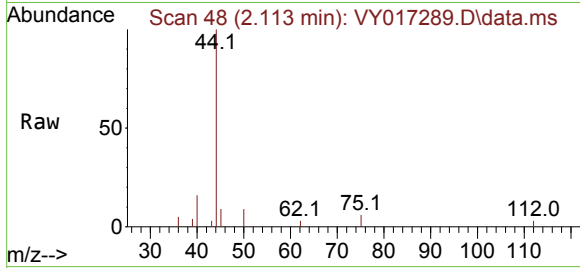




#3
Chloromethane
Concen: 1.766 ug/l
RT: 2.113 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

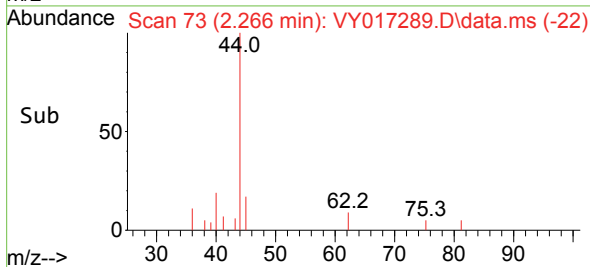
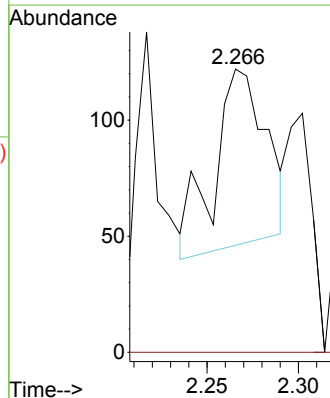
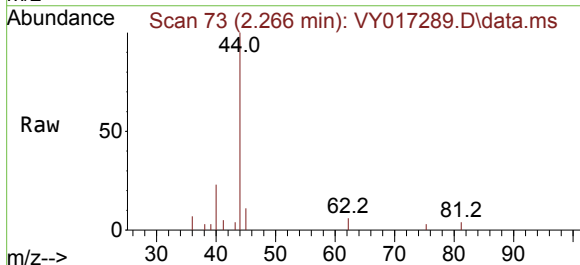
Instrument :
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ClientSampleId :
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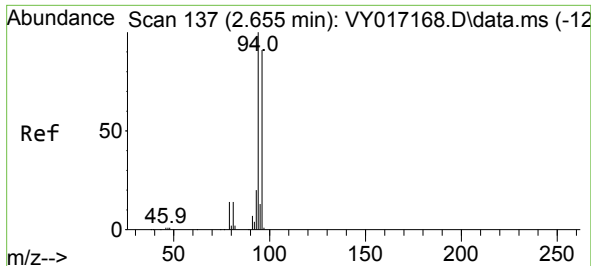
Tgt Ion: 50 Resp: 213
Ion Ratio Lower Upper
50 100
52 0.0 26.7 40.1#



#4
Vinyl Chloride
Concen: 1.014 ug/l
RT: 2.266 min Scan# 73
Delta R.T. 0.013 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 62 Resp: 149
Ion Ratio Lower Upper
62 100
64 0.0 25.7 38.5#

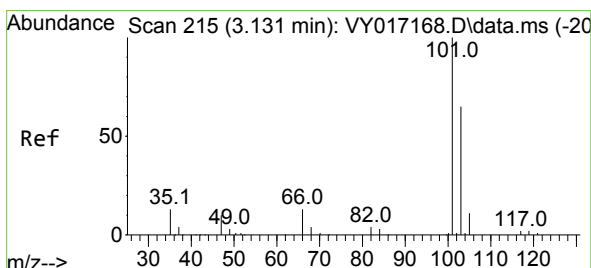
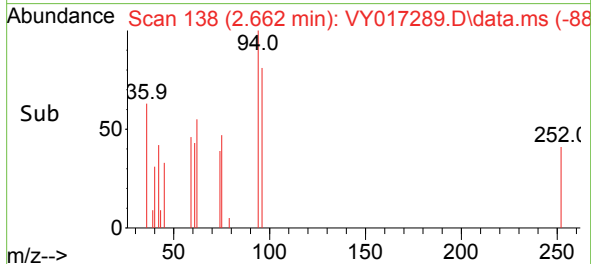
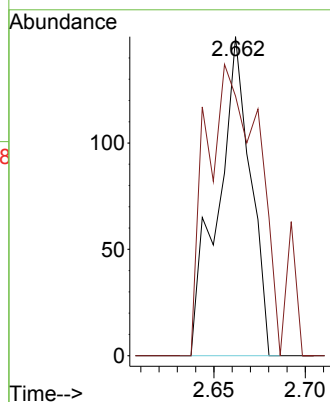
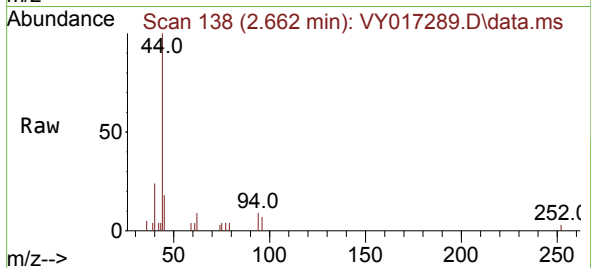




#5
Bromomethane
Concen: 1.836 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.007 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

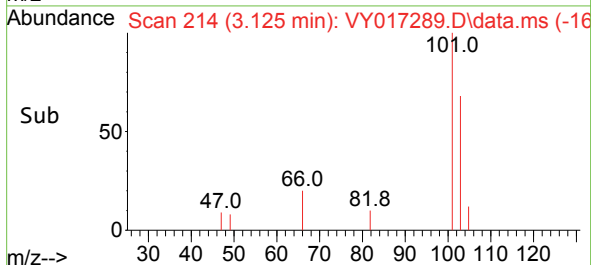
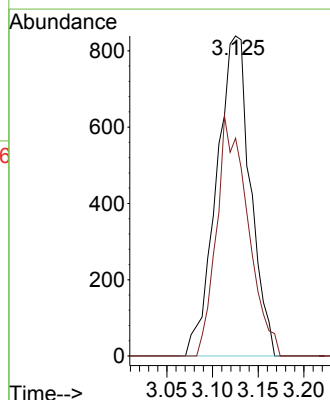
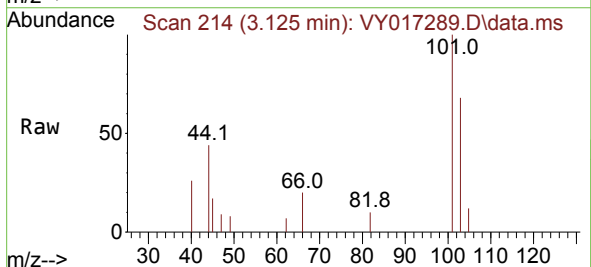
Instrument :
MSVOA_Y
ClientSampleId :
RE137-CARBON-20240205

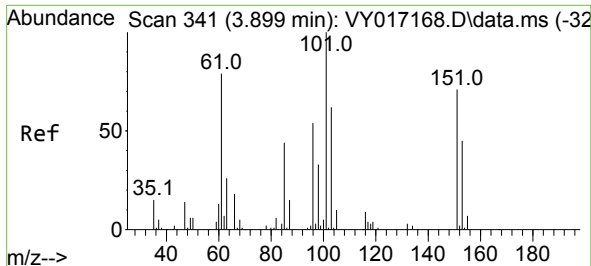
Tgt Ion: 94 Resp: 187
Ion Ratio Lower Upper
94 100
96 81.3 77.3 115.9



#7
Trichlorofluoromethane
Concen: 14.354 ug/l
RT: 3.125 min Scan# 214
Delta R.T. -0.006 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion:101 Resp: 2169
Ion Ratio Lower Upper
101 100
103 68.1 51.9 77.9

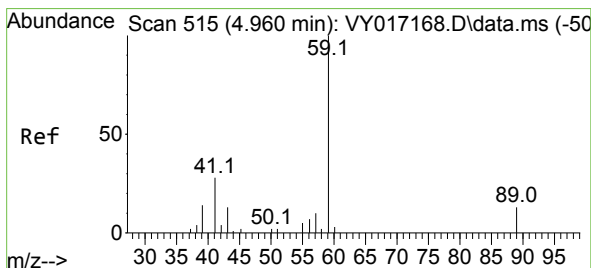
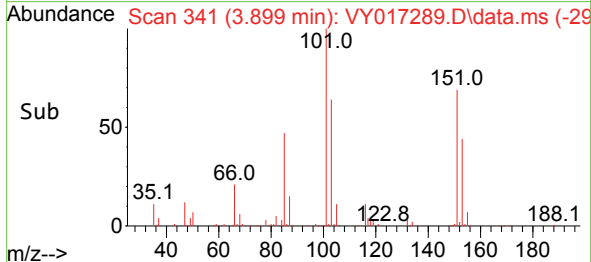
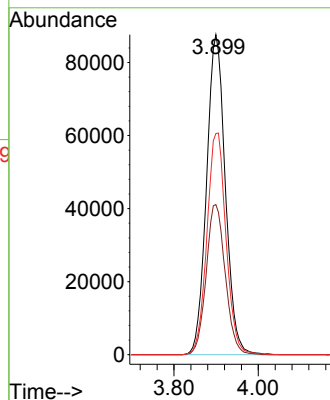
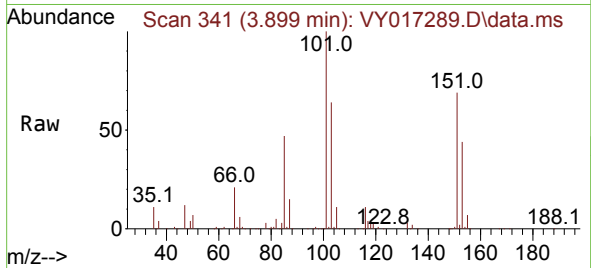




#9
1,1,2-Trichlorotrifluoroethane
Concen: 2961.093 ug/l
RT: 3.899 min Scan# 341
Delta R.T. 0.000 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

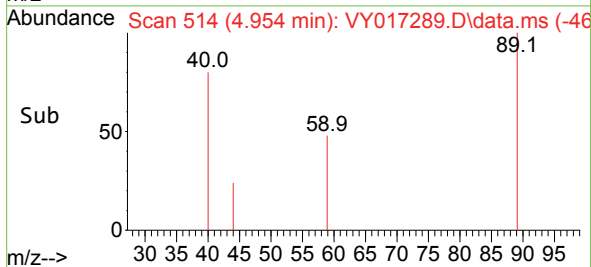
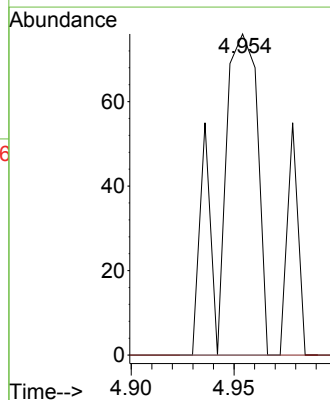
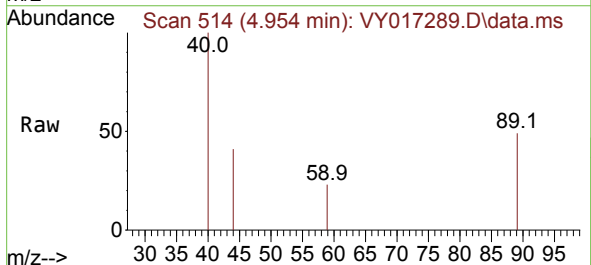
Instrument :
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ClientSampleId :
RE137-CARBON-20240205

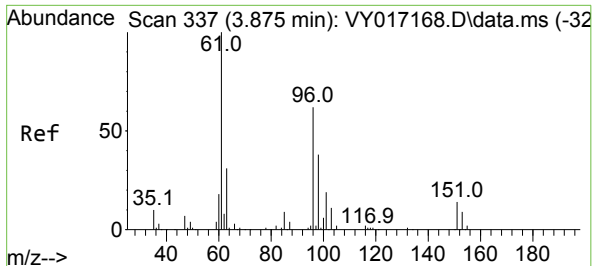
Tgt Ion:101 Resp: 271244
Ion Ratio Lower Upper
101 100
85 47.7 35.8 53.6
151 70.4 58.6 88.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.954 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 59 Resp: 98
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.0#

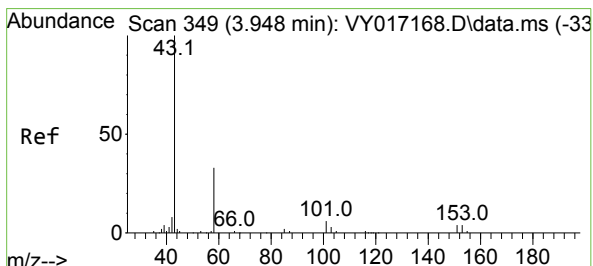
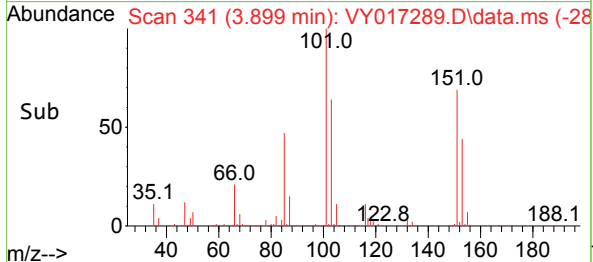
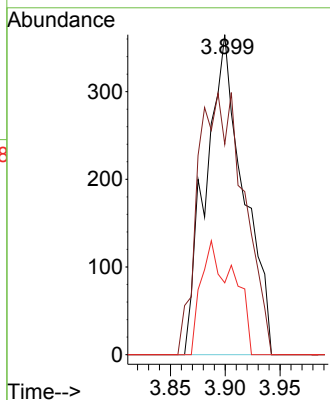
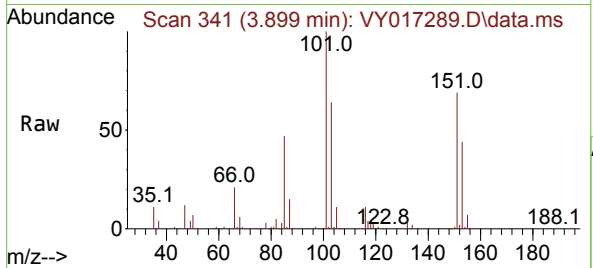




#12
1,1-Dichloroethene
Concen: 10.183 ug/l
RT: 3.899 min Scan# 341
Delta R.T. 0.025 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

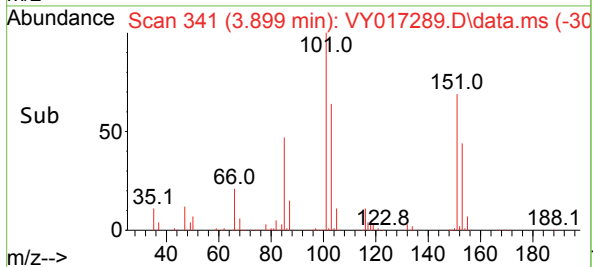
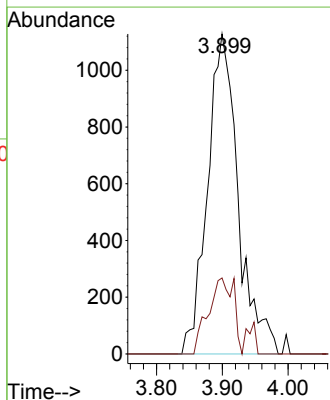
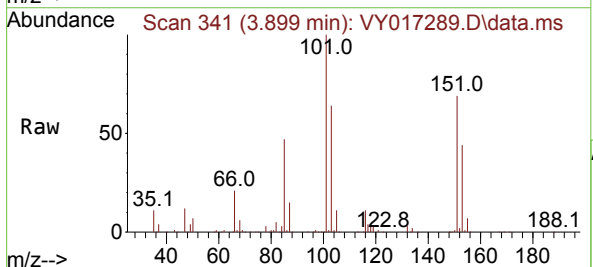
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ClientSampleId :
RE137-CARBON-20240205

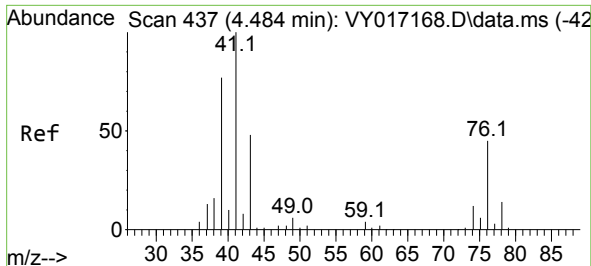
Tgt Ion: 96 Resp: 874
Ion Ratio Lower Upper
96 100
61 65.8 124.2 186.2#
98 22.5 52.6 79.0#



#16
Acetone
Concen: 157.806 ug/l
RT: 3.899 min Scan# 341
Delta R.T. -0.048 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 43 Resp: 3669
Ion Ratio Lower Upper
43 100
58 23.8 26.6 39.8#

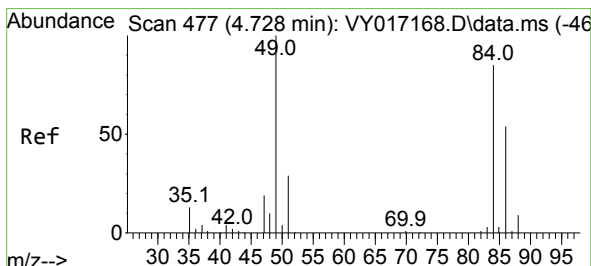
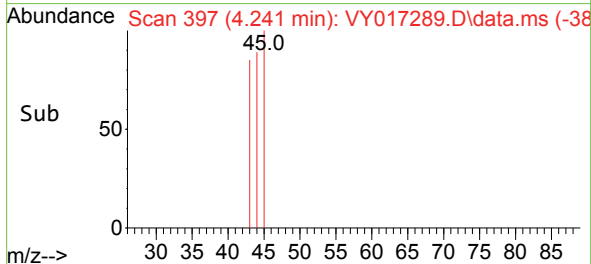
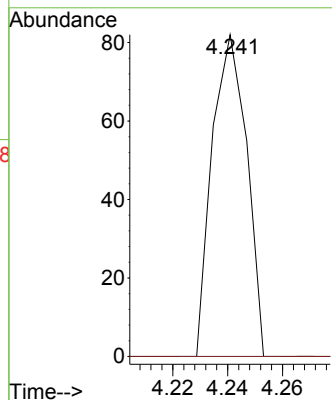
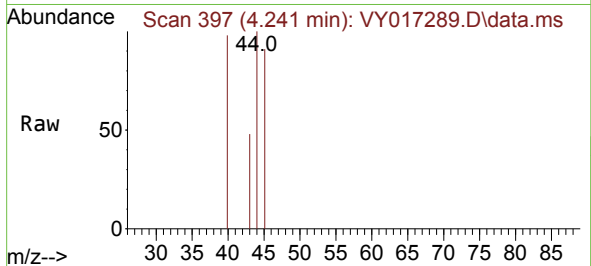




#18
Methyl Acetate
Concen: 1.388 ug/l
RT: 4.241 min Scan# 397
Delta R.T. -0.243 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

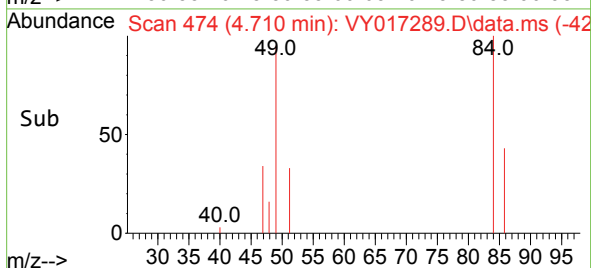
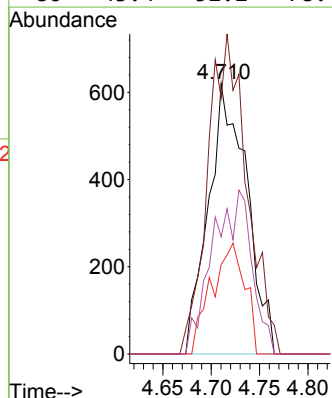
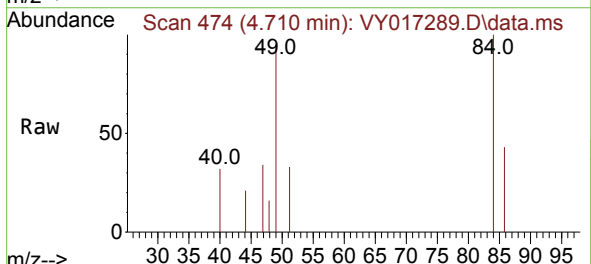
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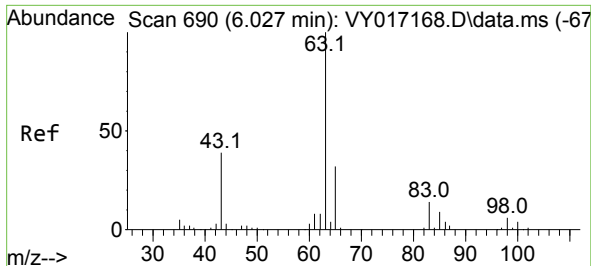
Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#20
Methylene Chloride
Concen: 15.577 ug/l
RT: 4.710 min Scan# 474
Delta R.T. -0.018 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 84 Resp: 1713
Ion Ratio Lower Upper
84 100
49 94.7 95.2 142.8#
51 33.1 29.9 44.9
86 43.4 52.2 78.4#

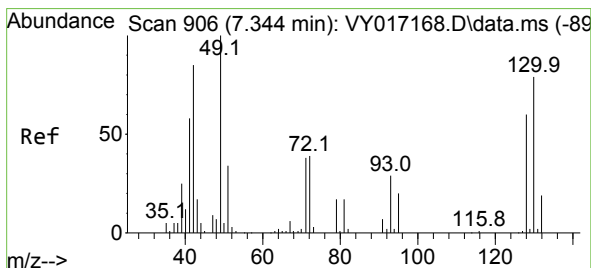
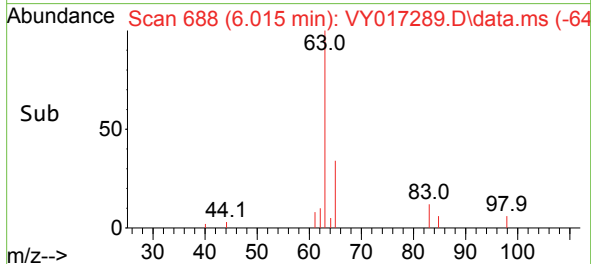
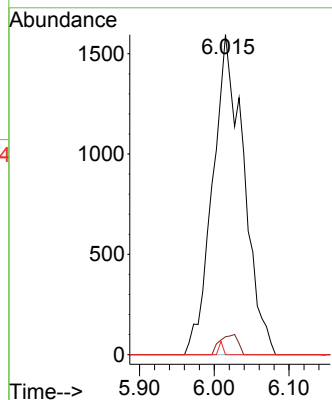
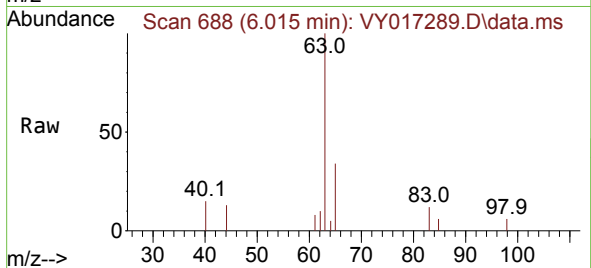




#24
1,1-Dichloroethane
Concen: 26.380 ug/l
RT: 6.015 min Scan# 61
Delta R.T. -0.012 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

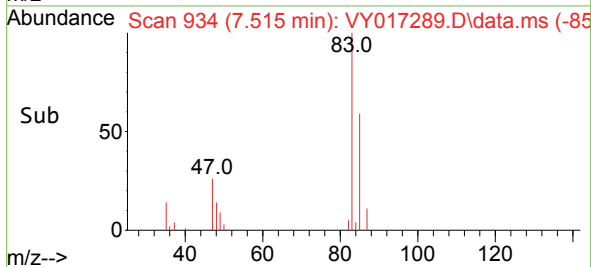
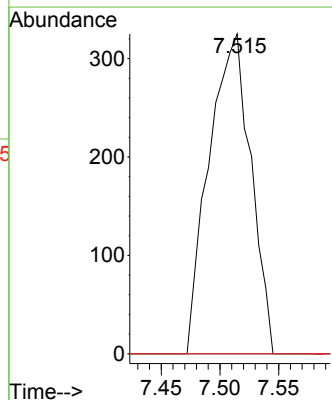
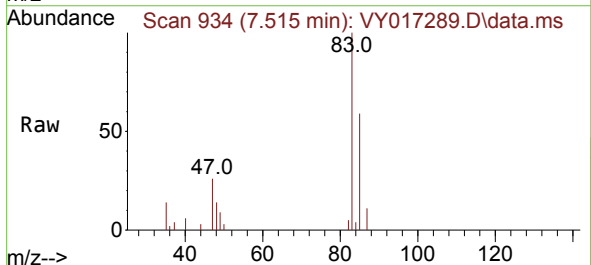
Instrument :
MSVOA_Y
ClientSampleId :
RE137-CARBON-20240205

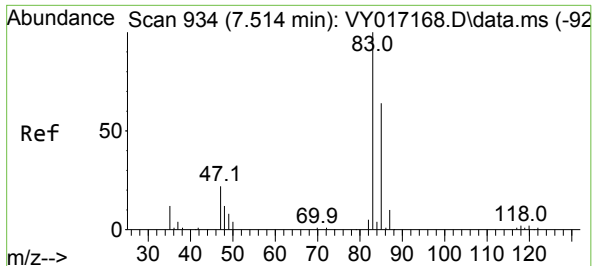
Tgt Ion: 63 Resp: 4605
Ion Ratio Lower Upper
63 100
98 5.6 3.8 11.4
100 0.0 2.1 6.2#



#28
Bromochloromethane
Concen: 12.029 ug/l
RT: 7.515 min Scan# 934
Delta R.T. 0.171 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 49 Resp: 804
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 59.8 89.8#

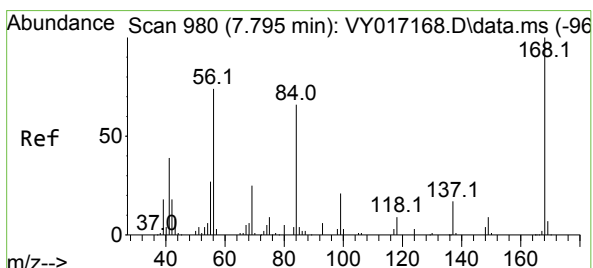
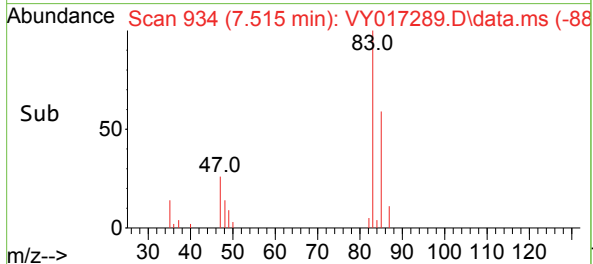
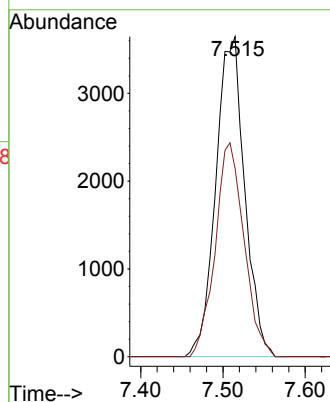
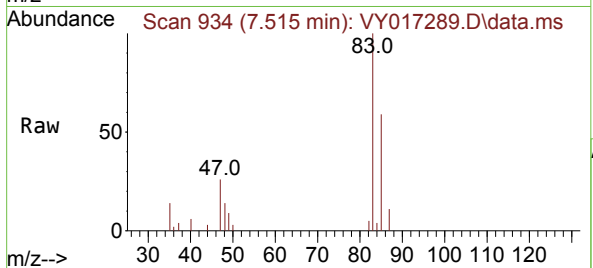




#30
Chloroform
Concen: 50.619 ug/l
RT: 7.515 min Scan# 911
Delta R.T. 0.000 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

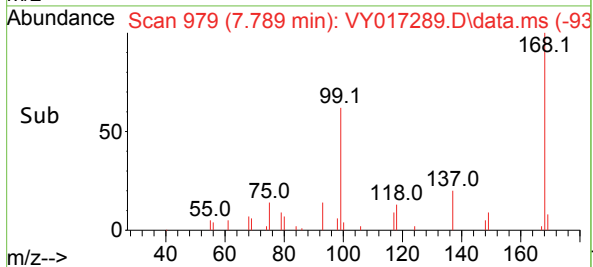
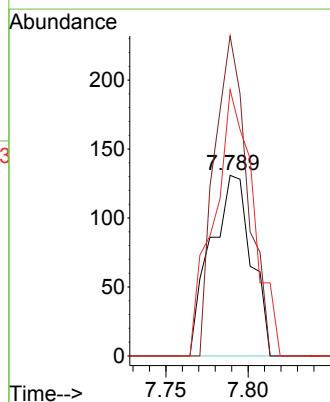
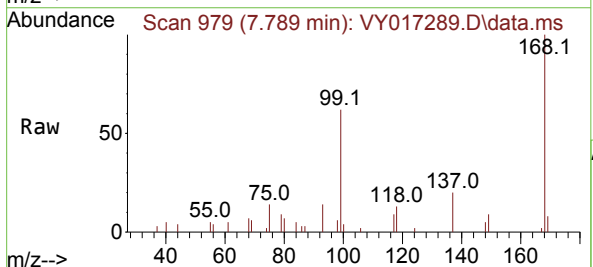
Instrument :
MSVOA_Y
ClientSampleId :
RE137-CARBON-20240205

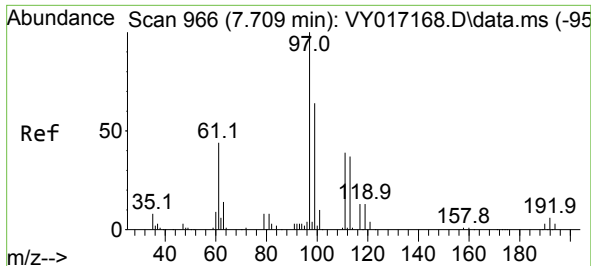
Tgt Ion: 83 Resp: 8889
Ion Ratio Lower Upper
83 100
85 58.8 51.2 76.8



#31
Cyclohexane
Concen: 1.405 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.006 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 56 Resp: 224
Ion Ratio Lower Upper
56 100
69 177.1 27.0 40.6#
84 147.3 71.8 107.6#

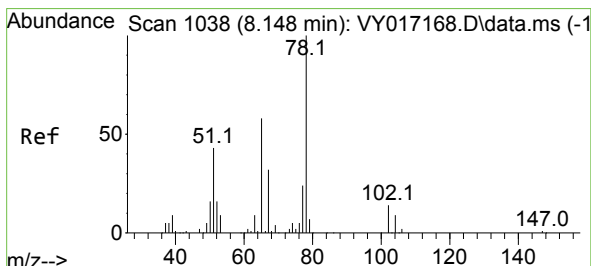
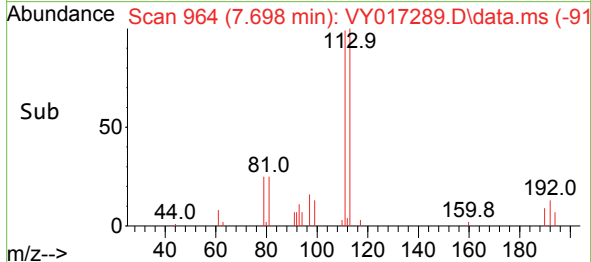
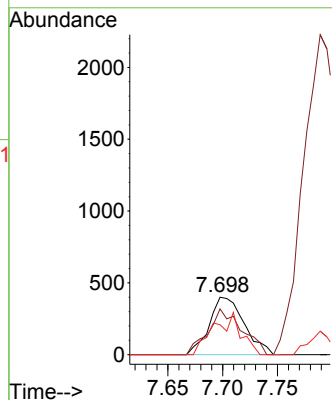
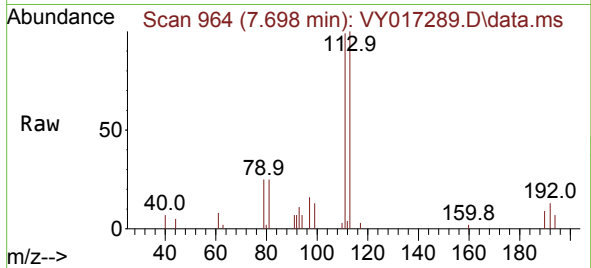




#32
1,1,1-Trichloroethane
Concen: 5.872 ug/l
RT: 7.698 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

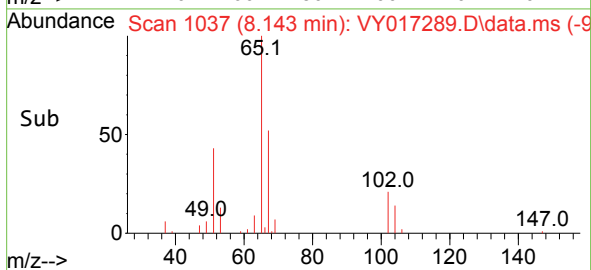
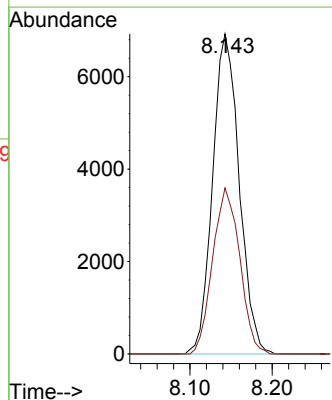
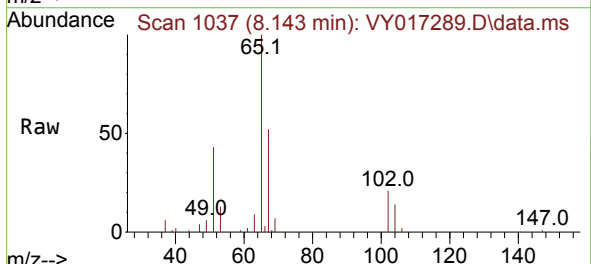
Instrument :
MSVOA_Y
ClientSampleId :
RE137-CARBON-20240205

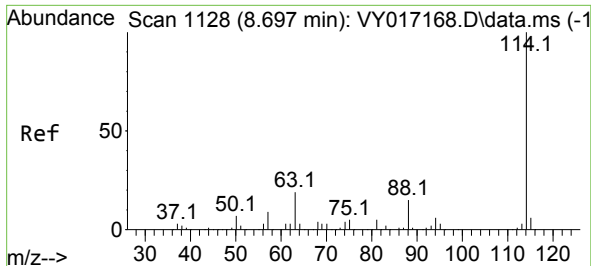
Tgt Ion: 97 Resp: 887
Ion Ratio Lower Upper
97 100
99 77.5 51.2 76.8#
61 33.3 35.0 52.6#



#33
1,2-Dichloroethane-d4
Concen: 196.574 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. -0.006 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 65 Resp: 15550
Ion Ratio Lower Upper
65 100
67 52.8 0.0 109.0

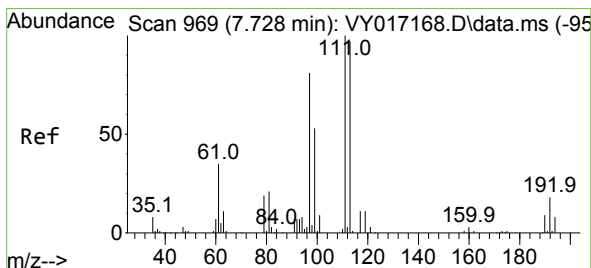
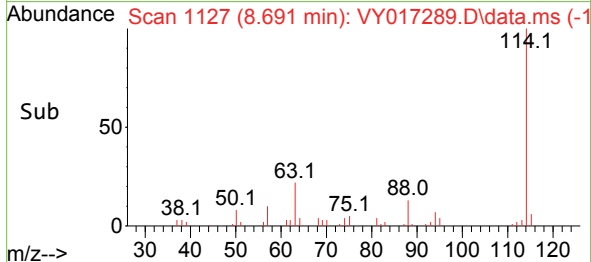
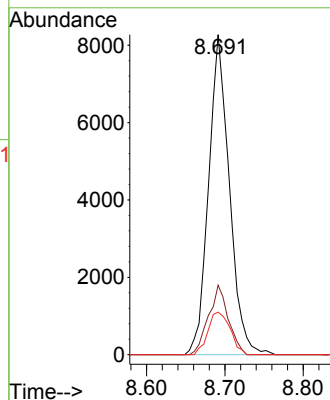
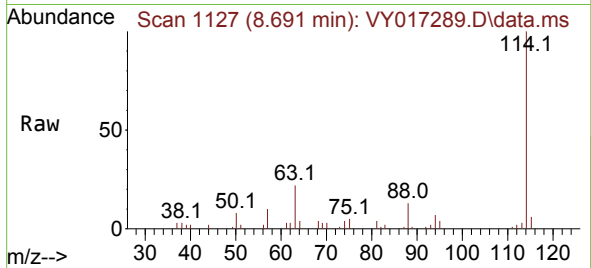




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.691 min Scan# 1128
 Delta R.T. -0.006 min
 Lab File: VY017289.D
 Acq: 07 Feb 2024 15:13

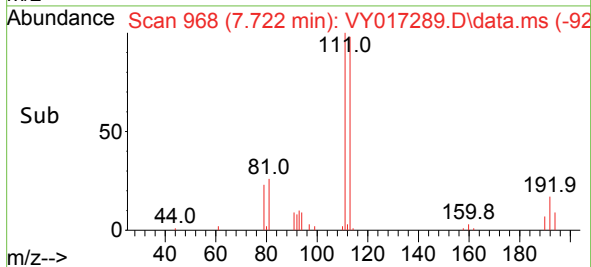
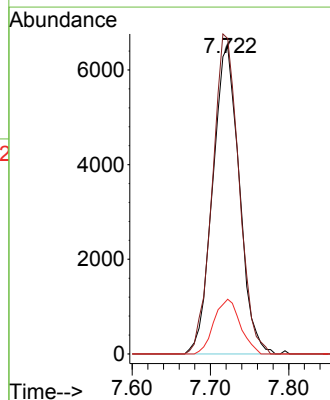
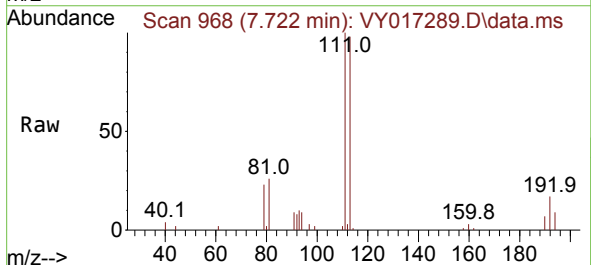
Instrument :
 MSVOA_Y
 ClientSampleId :
 RE137-CARBON-20240205

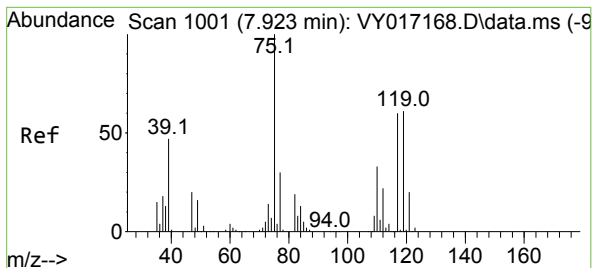
Tgt Ion:114	Resp:	15244
Ion	Ratio	Lower Upper
114	100	
63	21.7	0.0 37.4
88	13.3	0.0 29.0



#35
 Dibromofluoromethane
 Concen: 186.276 ug/l
 RT: 7.722 min Scan# 968
 Delta R.T. -0.006 min
 Lab File: VY017289.D
 Acq: 07 Feb 2024 15:13

Tgt Ion:113	Resp:	15332
Ion	Ratio	Lower Upper
113	100	
111	103.6	83.8 125.6
192	17.5	14.5 21.7





#36

1,1-Dichloropropene

Concen: 6.395 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY017289.D

Acq: 07 Feb 2024 15:13

Instrument :

MSVOA_Y

ClientSampleId :

RE137-CARBON-20240205

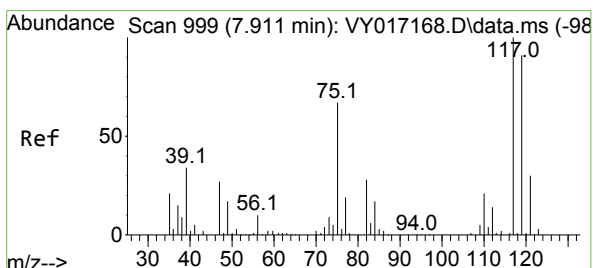
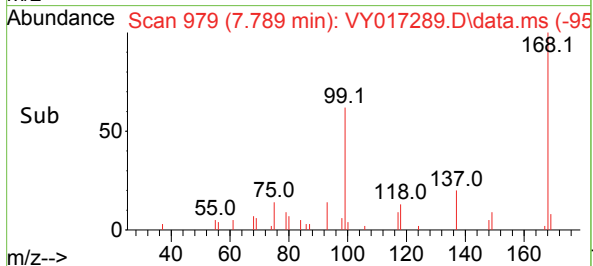
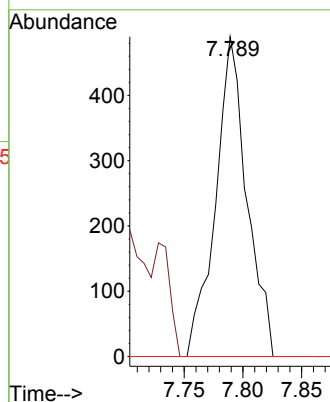
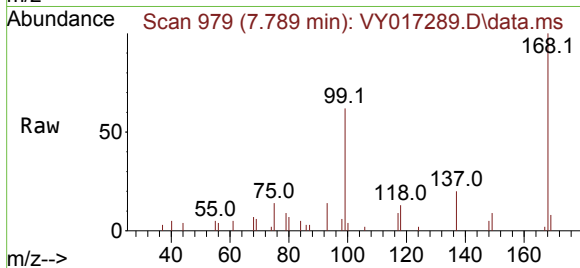
Tgt Ion: 75 Resp: 908

Ion Ratio Lower Upper

75 100

110 0.0 17.4 52.3#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 35.105 ug/l

RT: 7.899 min Scan# 997

Delta R.T. -0.012 min

Lab File: VY017289.D

Acq: 07 Feb 2024 15:13

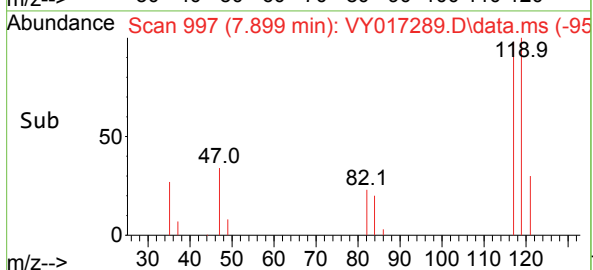
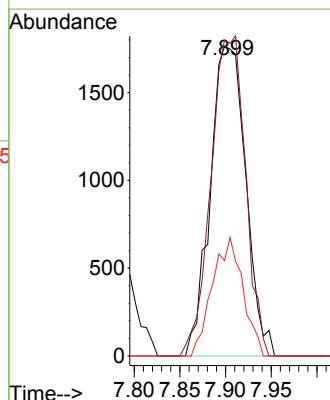
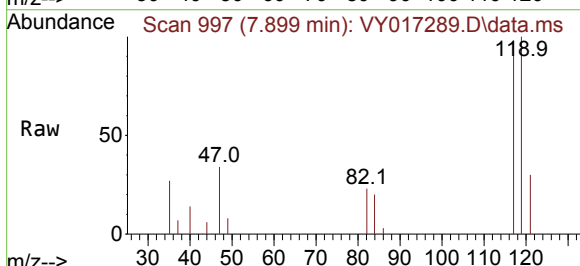
Tgt Ion: 117 Resp: 4772

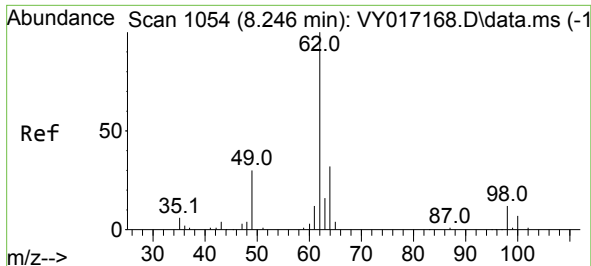
Ion Ratio Lower Upper

117 100

119 102.0 76.0 114.0

121 30.8 24.2 36.2





#42

1,2-Dichloroethane

Concen: 3.326 ug/l

RT: 8.240 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VY017289.D

Acq: 07 Feb 2024 15:13

Instrument :

MSVOA_Y

ClientSampleId :

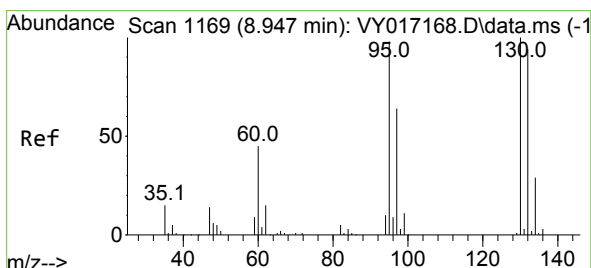
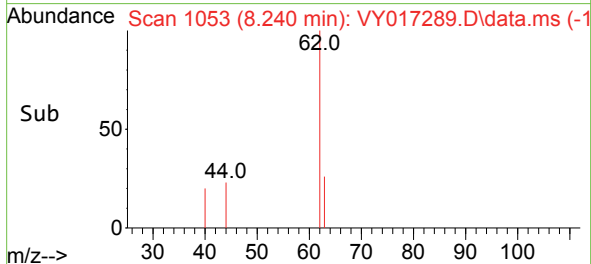
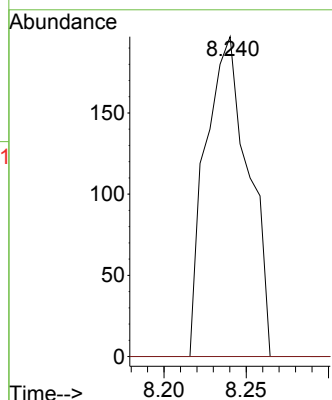
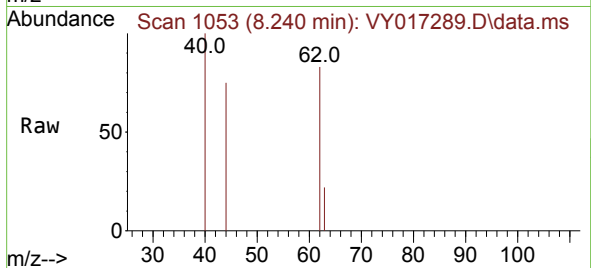
RE137-CARBON-20240205

Tgt Ion: 62 Resp: 357

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2



#44

Trichloroethene

Concen: 2.944 ug/l

RT: 8.947 min Scan# 1169

Delta R.T. 0.000 min

Lab File: VY017289.D

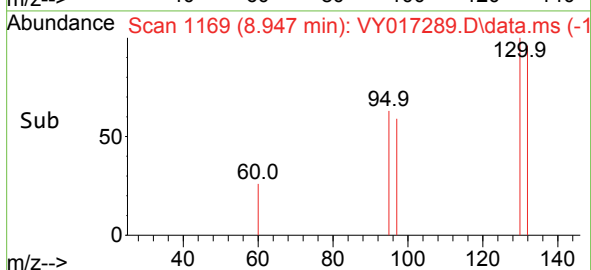
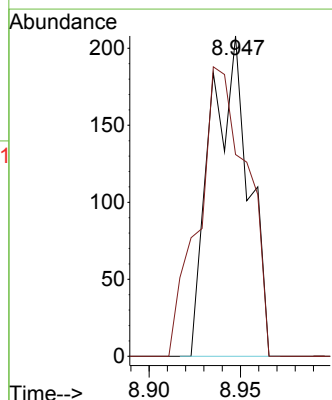
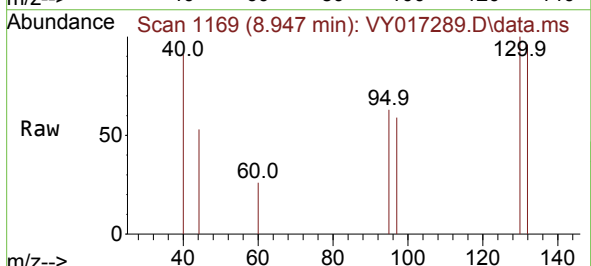
Acq: 07 Feb 2024 15:13

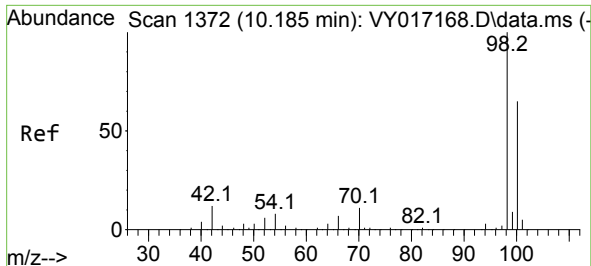
Tgt Ion:130 Resp: 303

Ion Ratio Lower Upper

130 100

95 63.0 0.0 203.8

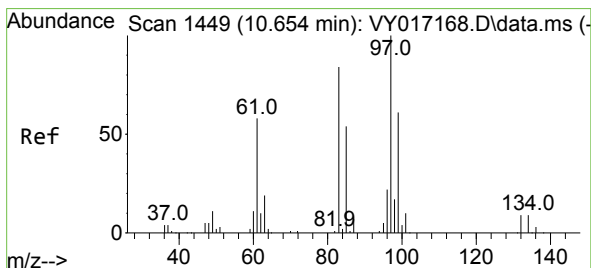
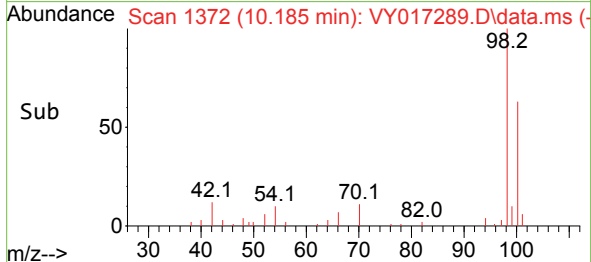
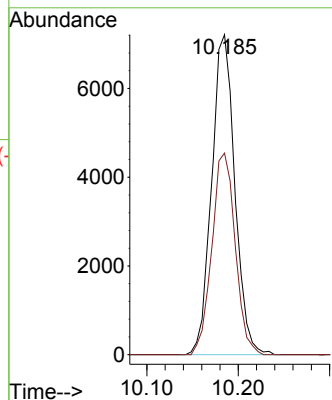
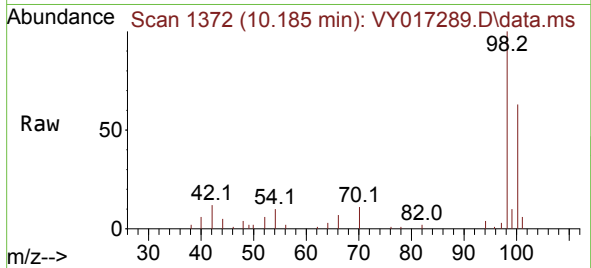




#50
Toluene-d8
Concen: 42.319 ug/l
RT: 10.185 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

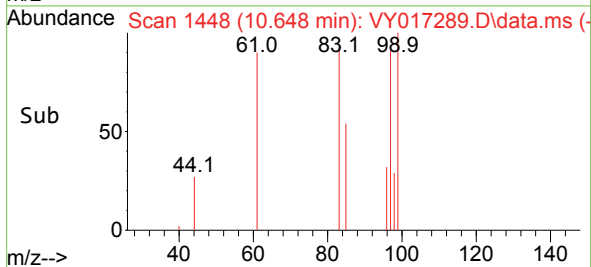
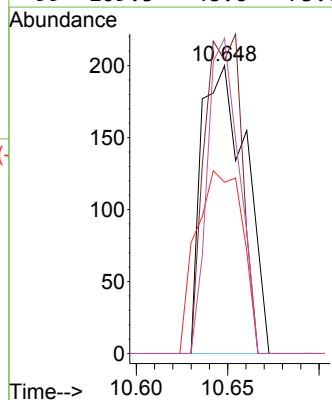
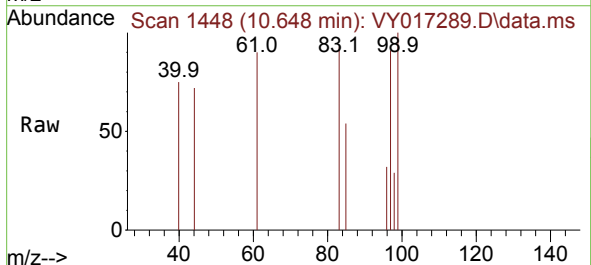
Instrument :
MSVOA_Y
ClientSampleId :
RE137-CARBON-20240205

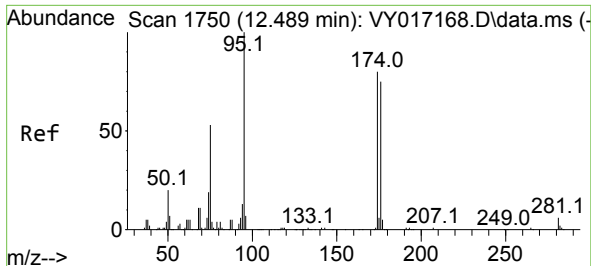
Tgt Ion: 98 Resp: 12682
Ion Ratio Lower Upper
98 100
100 63.5 52.3 78.5



#55
1,1,2-Trichloroethane
Concen: 4.618 ug/l
RT: 10.648 min Scan# 1448
Delta R.T. -0.006 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 97 Resp: 338
Ion Ratio Lower Upper
97 100
83 102.0 69.4 104.2
85 59.5 43.9 65.9
99 109.5 48.6 73.0#

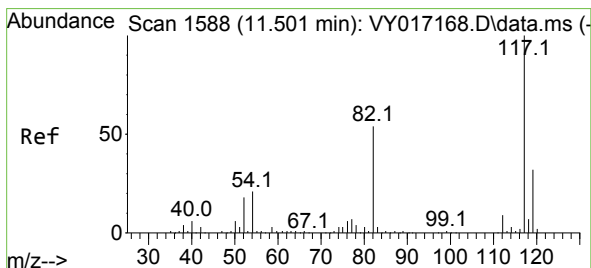
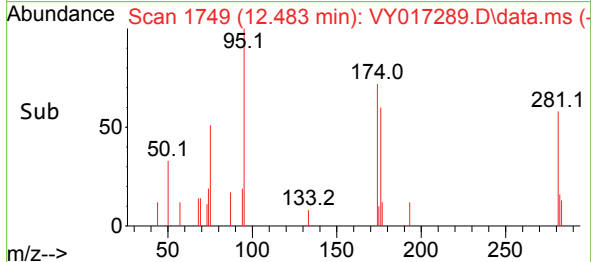
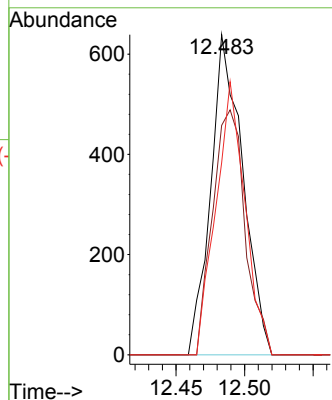
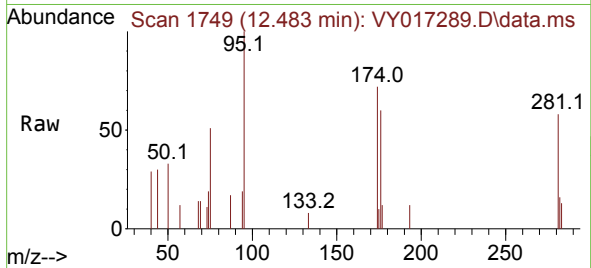




#62
4-Bromofluorobenzene
Concen: 10.553 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

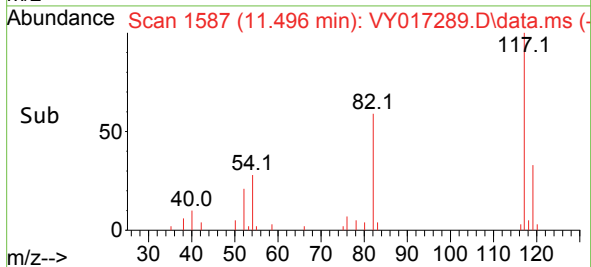
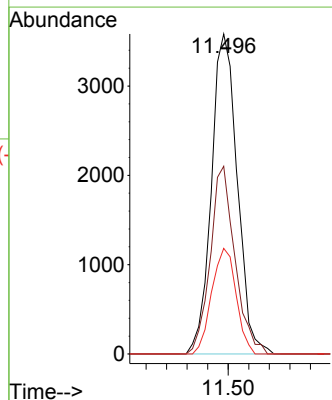
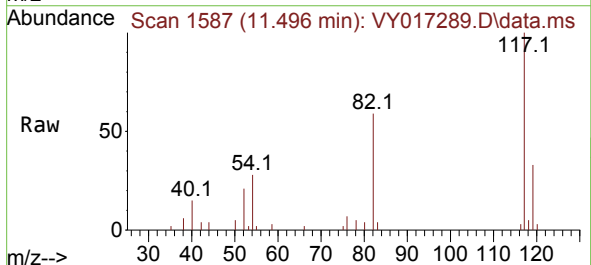
Instrument :
MSVOA_Y
ClientSampleId :
RE137-CARBON-20240205

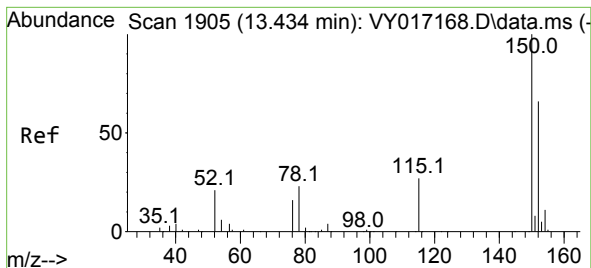
Tgt Ion:	95	Resp:	1036
Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	160.0
176	77.7	0.0	151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. -0.006 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion:	117	Resp:	6247
Ion	Ratio	Lower	Upper
117	100		
82	58.6	43.8	65.8
119	33.0	26.5	39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1905

Delta R.T. -0.006 min

Lab File: VY017289.D

Acq: 07 Feb 2024 15:13

Instrument :

MSVOA_Y

ClientSampleId :

RE137-CARBON-20240205

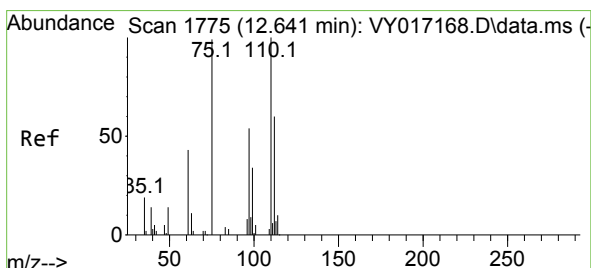
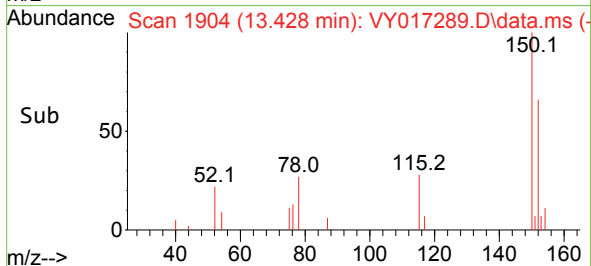
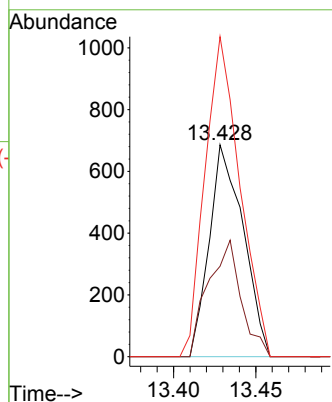
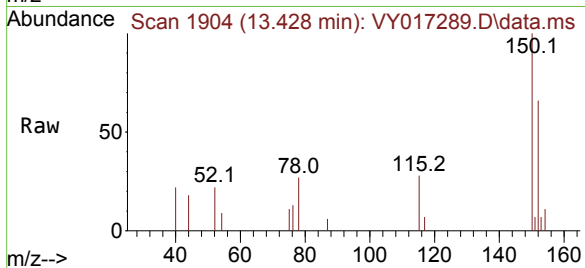
Tgt Ion:152 Resp: 984

Ion Ratio Lower Upper

152 100

115 53.5 30.0 90.0

150 155.5 0.0 344.6



#76

1,2,3-Trichloropropane

Concen: 72.560 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.152 min

Lab File: VY017289.D

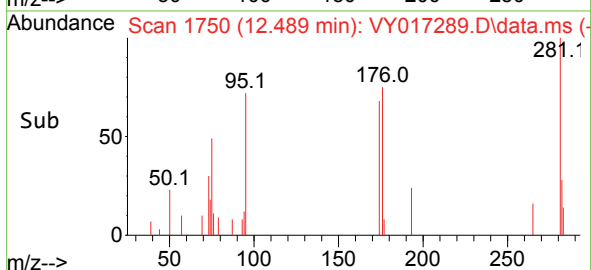
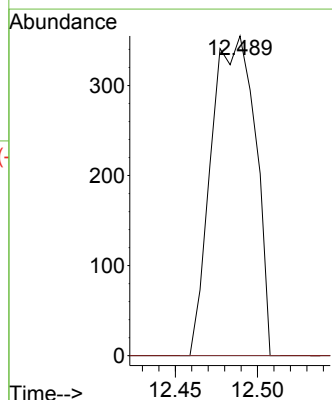
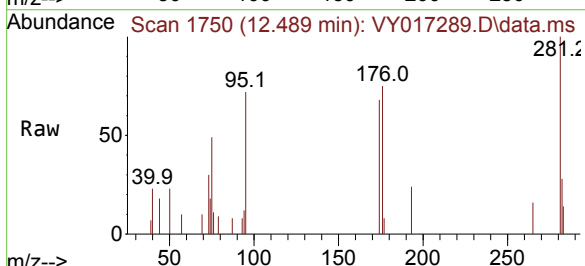
Acq: 07 Feb 2024 15:13

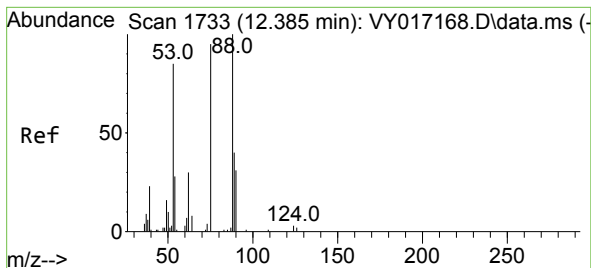
Tgt Ion: 75 Resp: 659

Ion Ratio Lower Upper

75 100

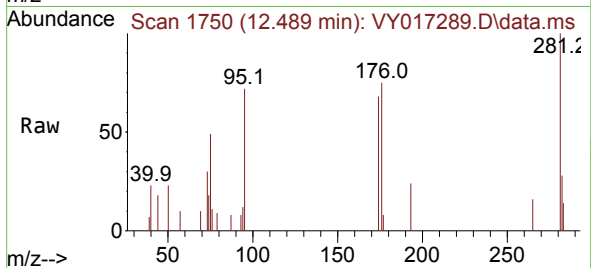
77 0.0 0.0 0.0



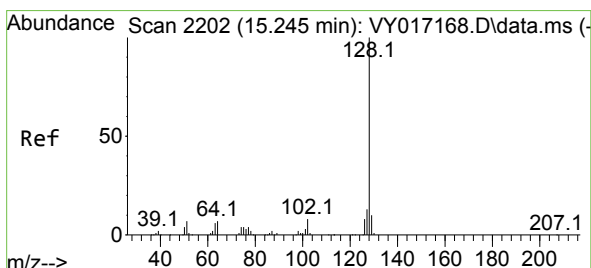
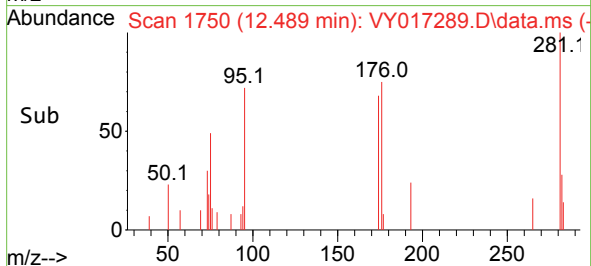
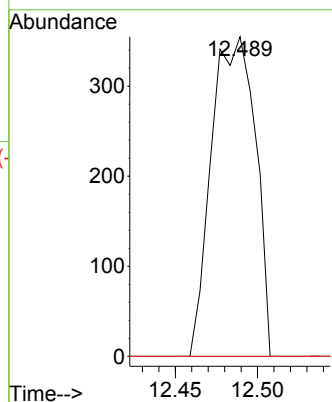


#81
trans-1,4-Dichloro-2-butene
Concen: 150.769 ug/l
RT: 12.489 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Instrument :
MSVOA_Y
ClientSampleId :
RE137-CARBON-20240205



Tgt Ion: 75 Resp: 659
Ion Ratio Lower Upper
75 100
53 0.0 74.0 111.0#
89 0.0 36.5 54.7#



#95
Naphthalene
Concen: 9.879 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.012 min
Lab File: VY017289.D
Acq: 07 Feb 2024 15:13

Tgt Ion: 128 Resp: 181
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.6 12.8#

