

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091322\
 Data File : VY010456.D
 Acq On : 13 Sep 2022 14:12
 Operator : KP/MD
 Sample : N4550-01
 Misc : 2.22g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 D-CRTE-SLAB-1

Quant Time: Sep 14 05:23:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090922S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 09 17:08:30 2022
 Response via : Initial Calibration

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

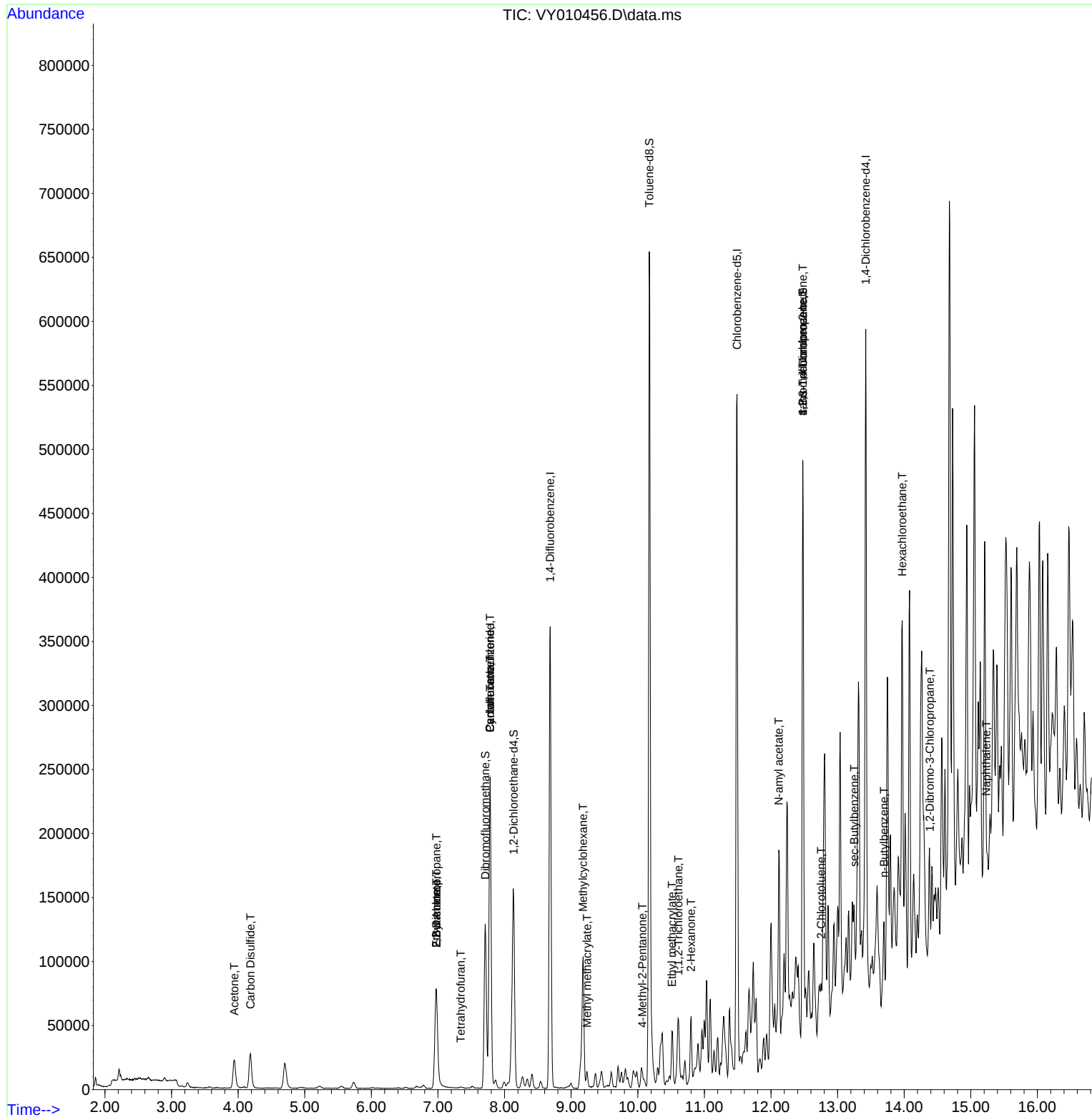
Internal Standards						
1) Pentafluorobenzene	7.783	168	182113	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	310779	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	290682	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	135790	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	104662	57.062	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 114.120%	
35) Dibromofluoromethane	7.710	113	90295	40.910	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 81.820%	
50) Toluene-d8	10.173	98	375691	52.520	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 105.040%	
62) 4-Bromofluorobenzene	12.477	95	135054	47.299	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 94.600%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.900	85	739	Below Cal		89
11) Tert butyl alcohol	4.936	59	1464	Below Cal	#	77
16) Acetone	3.942	43	40338	95.832	ug/l #	86
17) Carbon Disulfide	4.186	76	53548	11.275	ug/l	100
25) 2-Butanone	6.978	43	16664	24.911	ug/l	96
26) 2,2-Dichloropropane	6.978	77	5276	1.618	ug/l #	55
29) Tetrahydrofuran	7.344	42	561	1.344	ug/l #	81
31) Cyclohexane	7.783	56	7096	2.290	ug/l #	52
37) Ethyl Acetate	6.978	43	16664	10.491	ug/l #	77
38) Carbon Tetrachloride	7.783	117	17718	5.271	ug/l #	16
39) Methylcyclohexane	9.179	83	41362	10.978	ug/l	90
48) Methyl methacrylate	9.240	41	2582	1.978	ug/l #	41
51) 4-Methyl-2-Pentanone	10.069	43	3078	1.930	ug/l	88
55) 1,1,2-Trichloroethane	10.612	97	15091	8.293	ug/l #	18
56) Ethyl methacrylate	10.514	69	4476	1.873	ug/l #	46
58) 2-Chloroethyl Vinyl ether	9.801	63	48	Below Cal	#	48
59) 2-Hexanone	10.801	43	21717	19.981	ug/l #	32
74) N-amyl acetate	12.118	43	33585	13.586	ug/l #	70
76) 1,2,3-Trichloropropane	12.477	75	66854	44.609	ug/l #	100
79) 2-Chlorotoluene	12.752	91	11913	1.690	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.477	75	66854	99.048	ug/l #	9
85) sec-Butylbenzene	13.252	105	16219	1.402	ug/l #	59
89) n-Butylbenzene	13.697	91	20729	2.334	ug/l	95
90) Hexachloroethane	13.971	117	11217	6.105	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.385	75	455	1.360	ug/l #	6
95) Naphthalene	15.233	128	9671	1.768	ug/l #	69

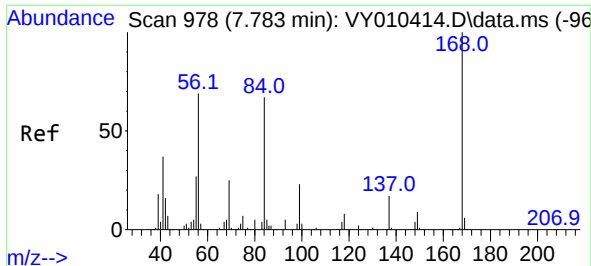
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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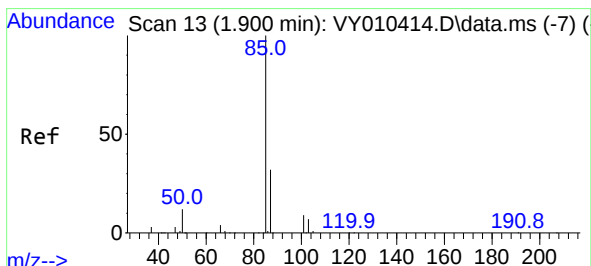
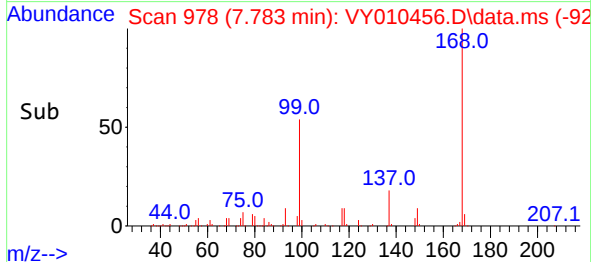
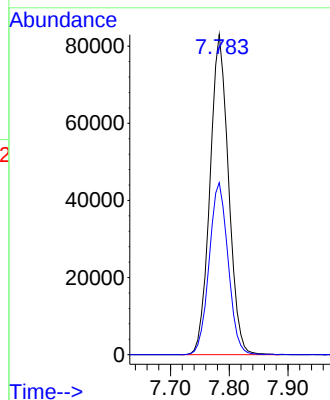
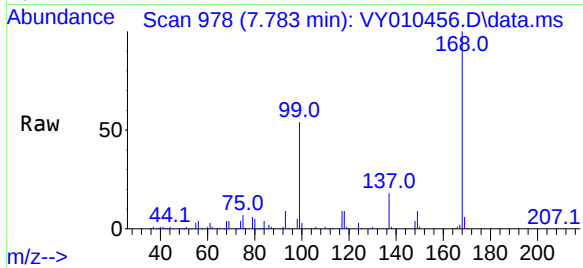




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

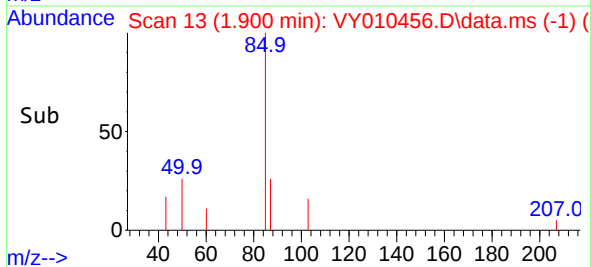
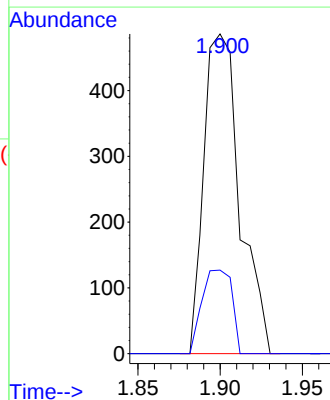
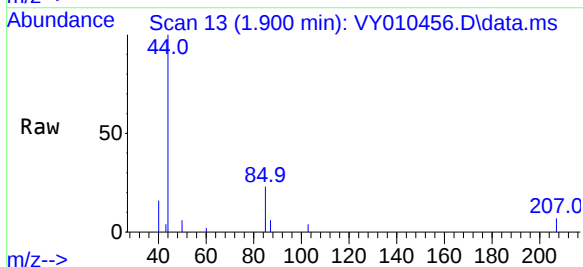
Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

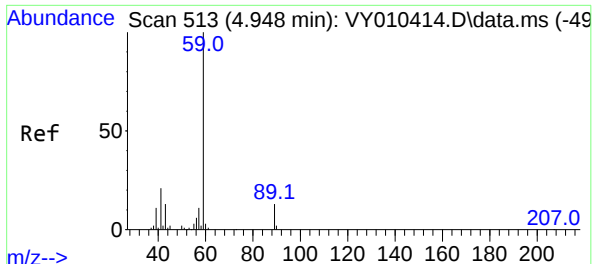
Tgt Ion:168 Resp: 182113
Ion Ratio Lower Upper
168 100
99 53.7 46.9 70.3



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 85 Resp: 739
Ion Ratio Lower Upper
85 100
87 26.1 16.1 48.2

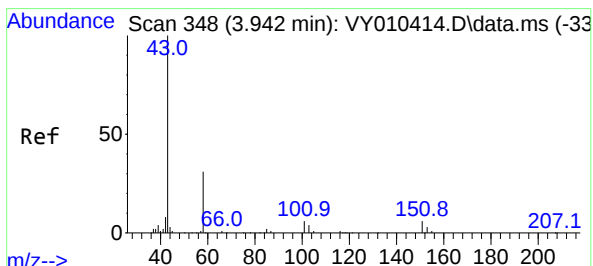
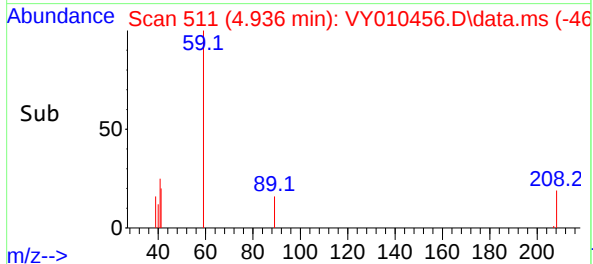
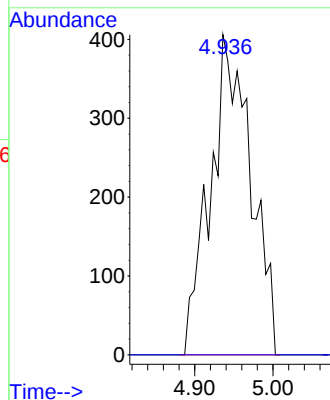
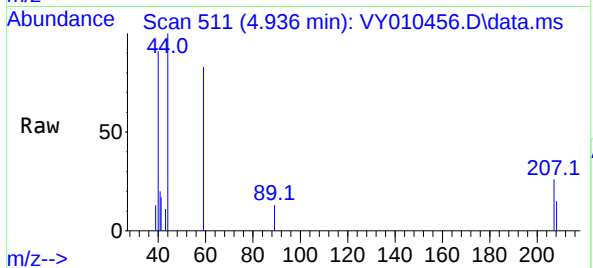




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.936 min Scan# 511
Delta R.T. -0.012 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

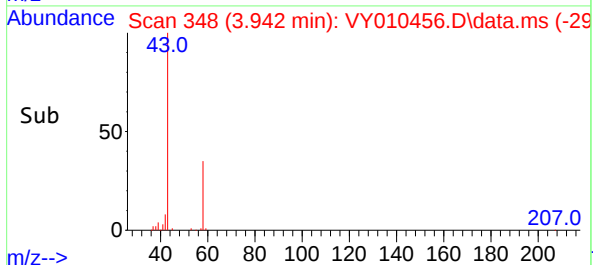
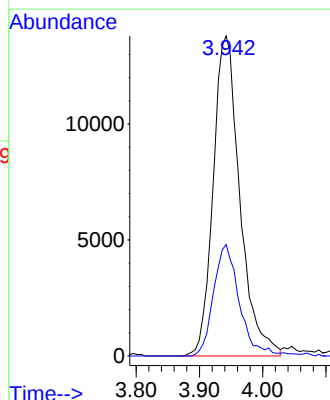
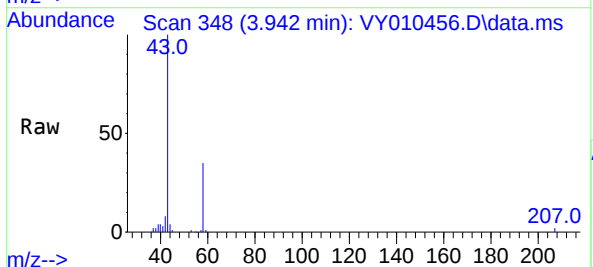
Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

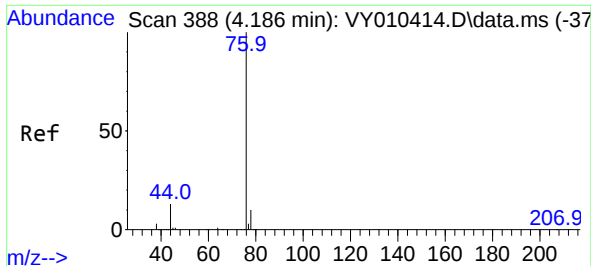
Tgt Ion: 59 Resp: 1464
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#



#16
Acetone
Concen: 95.832 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 43 Resp: 40338
Ion Ratio Lower Upper
43 100
58 34.8 22.0 33.0#

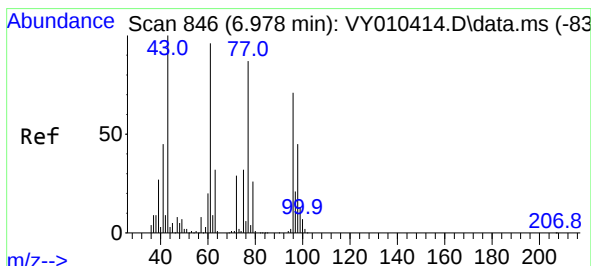
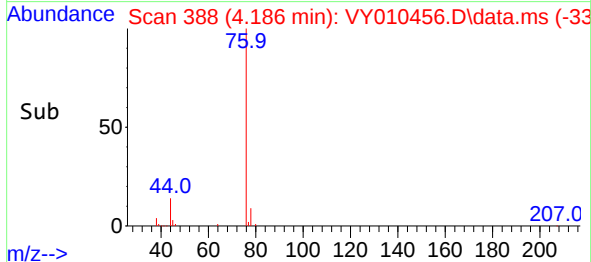
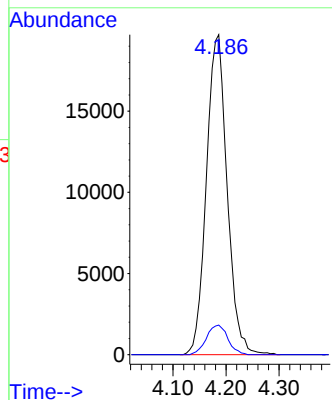
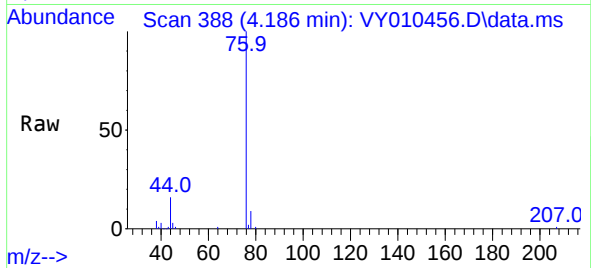




#17
Carbon Disulfide
Concen: 11.275 ug/l
RT: 4.186 min Scan# 388
Delta R.T. 0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

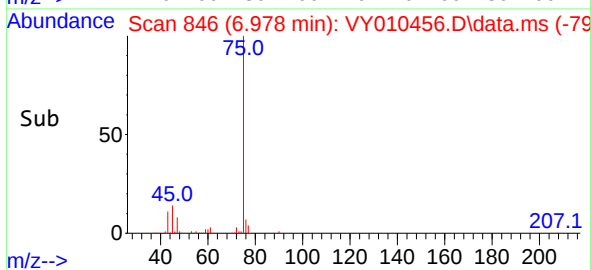
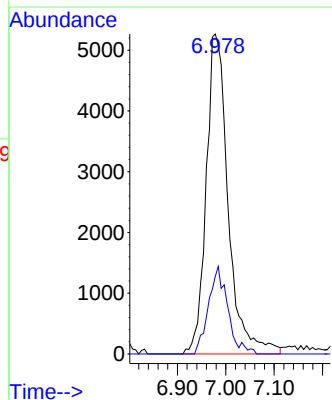
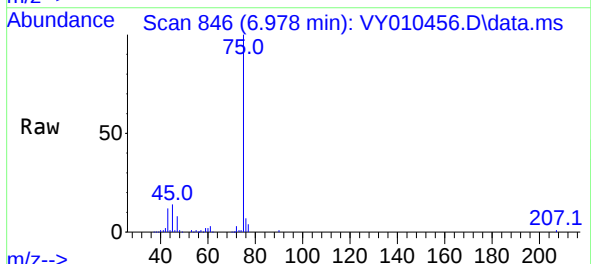
Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

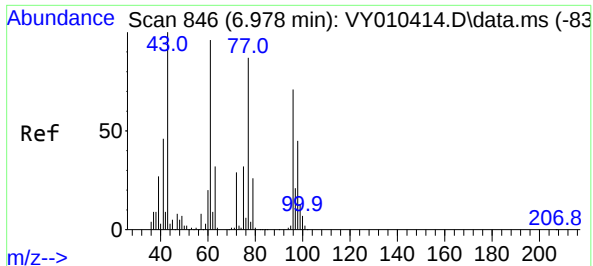
Tgt Ion: 76 Resp: 53548
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.0



#25
2-Butanone
Concen: 24.911 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 43 Resp: 16664
Ion Ratio Lower Upper
43 100
72 24.2 17.7 26.5





#26

2,2-Dichloropropane

Concen: 1.618 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.000 min

Lab File: VY010456.D

Acq: 13 Sep 2022 14:12

Instrument :

MSVOA_Y

ClientSampleId :

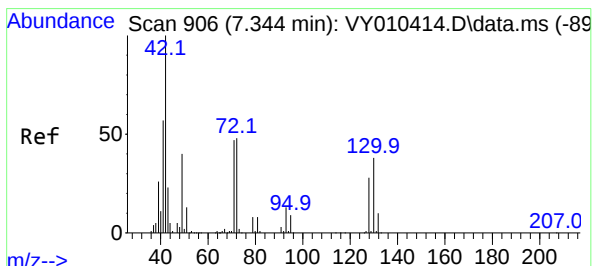
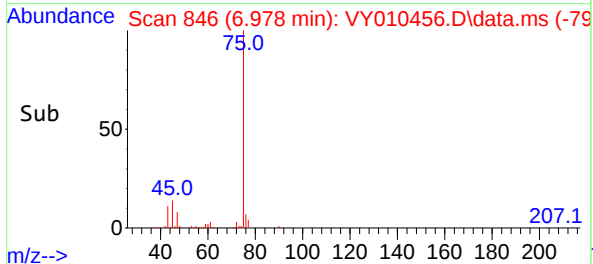
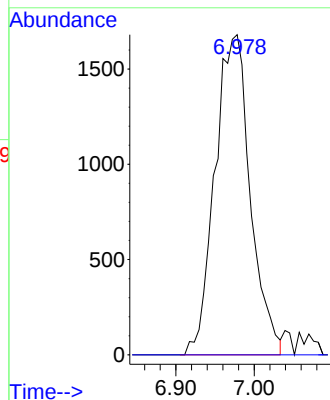
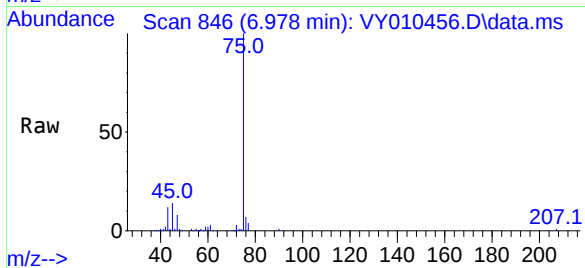
D-CRTE-SLAB-1

Tgt Ion: 77 Resp: 5276

Ion Ratio Lower Upper

77 100

97 0.0 10.4 31.4#



#29

Tetrahydrofuran

Concen: 1.344 ug/l

RT: 7.344 min Scan# 906

Delta R.T. 0.000 min

Lab File: VY010456.D

Acq: 13 Sep 2022 14:12

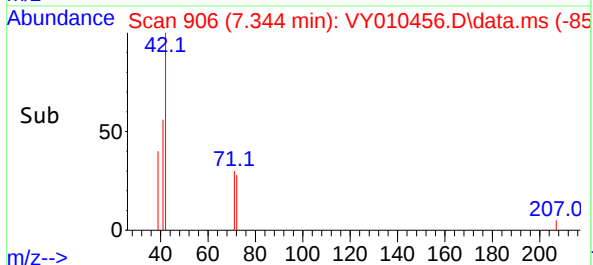
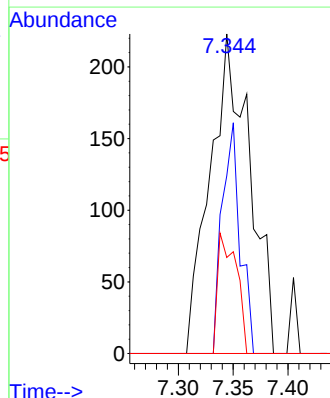
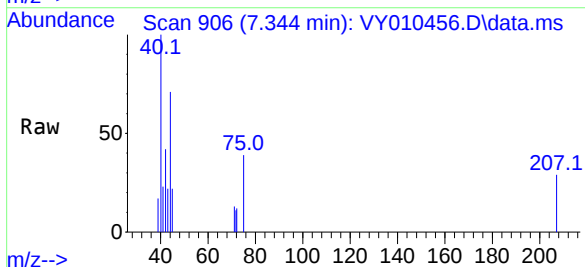
Tgt Ion: 42 Resp: 561

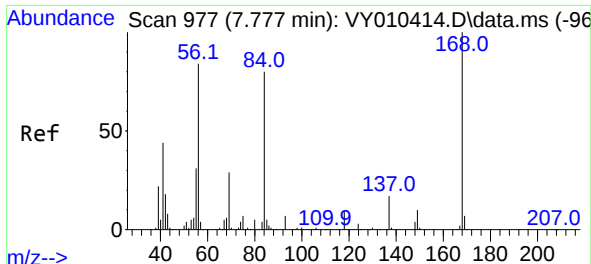
Ion Ratio Lower Upper

42 100

72 33.0 30.3 45.5

71 17.8 29.0 43.4#

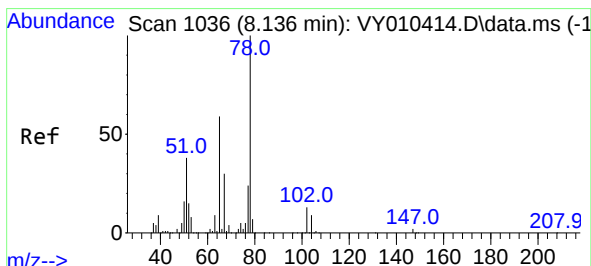
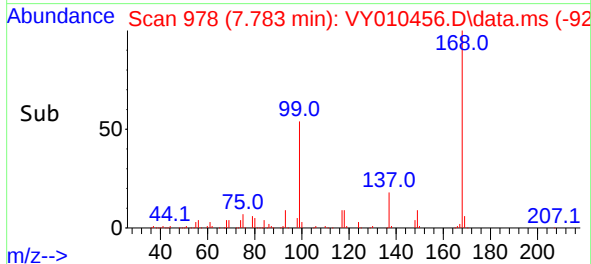
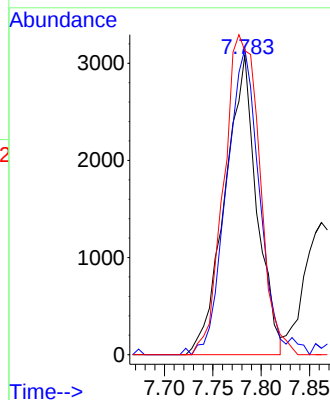
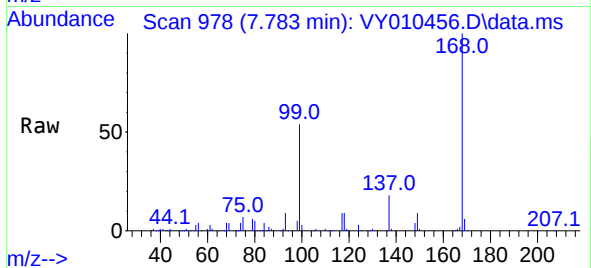




#31
Cyclohexane
Concen: 2.290 ug/l
RT: 7.783 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

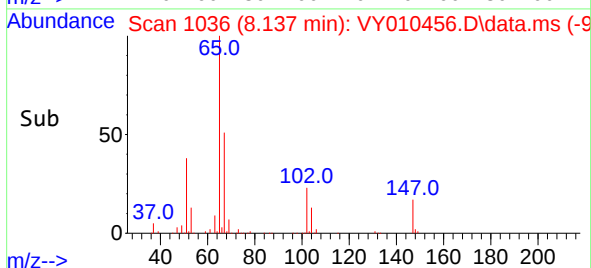
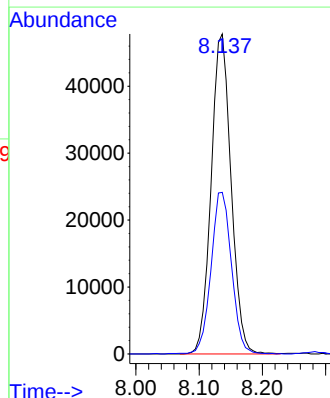
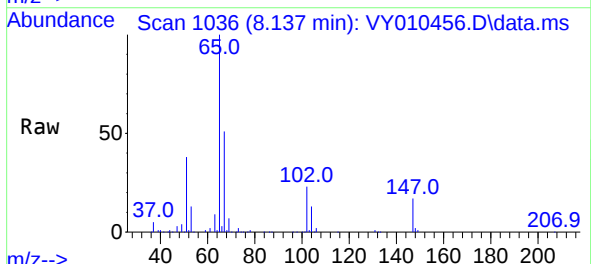
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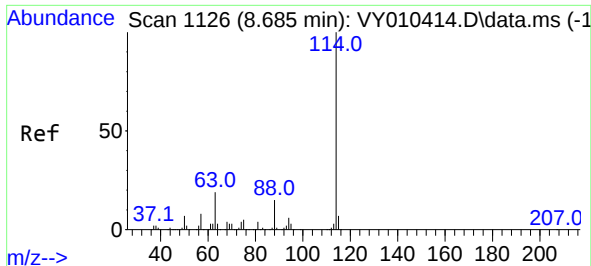
Tgt Ion: 56 Resp: 7096
Ion Ratio Lower Upper
56 100
69 102.0 26.7 40.1#
84 101.5 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 57.062 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 65 Resp: 104662
Ion Ratio Lower Upper
65 100
67 52.0 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY010456.D

Acq: 13 Sep 2022 14:12

Instrument :

MSVOA_Y

ClientSampleId :

D-CRTE-SLAB-1

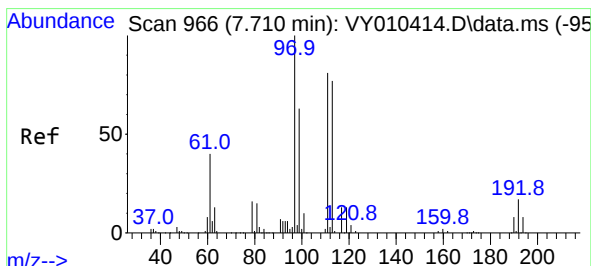
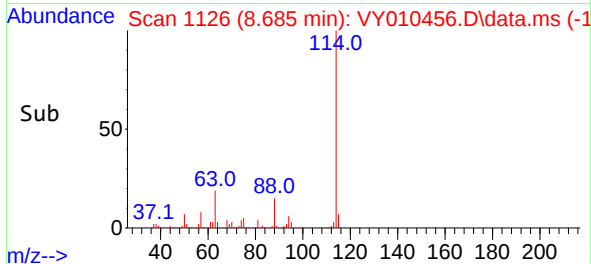
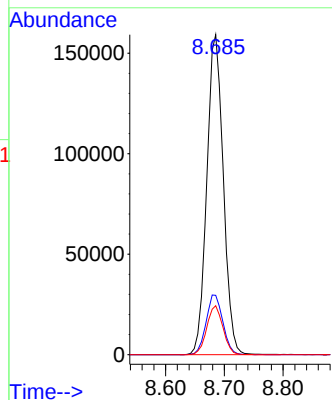
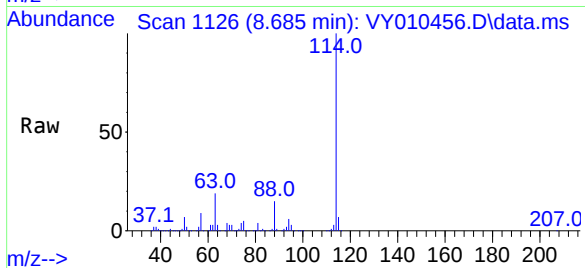
Tgt Ion:114 Resp: 310779

Ion Ratio Lower Upper

114 100

63 18.6 0.0 43.2

88 15.3 0.0 31.8



#35

Dibromofluoromethane

Concen: 40.910 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.000 min

Lab File: VY010456.D

Acq: 13 Sep 2022 14:12

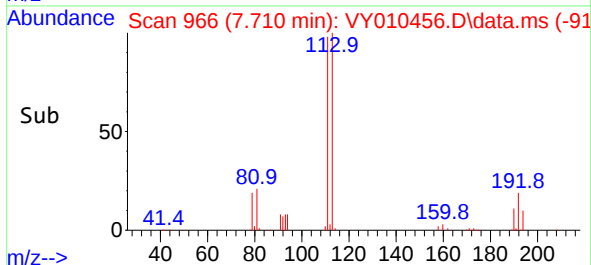
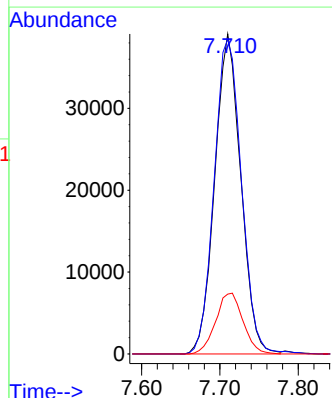
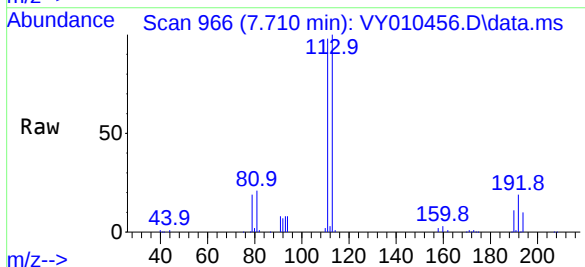
Tgt Ion:113 Resp: 90295

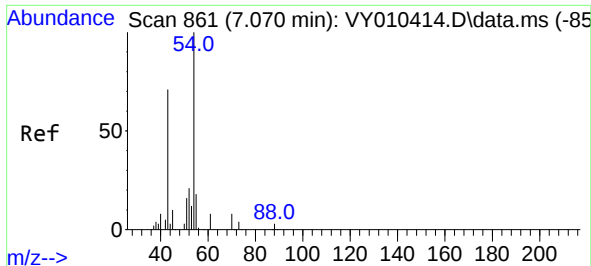
Ion Ratio Lower Upper

113 100

111 103.1 82.6 124.0

192 19.9 17.6 26.4

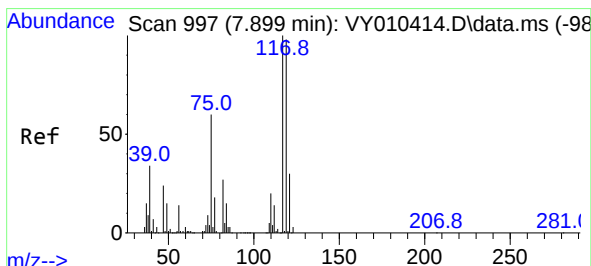
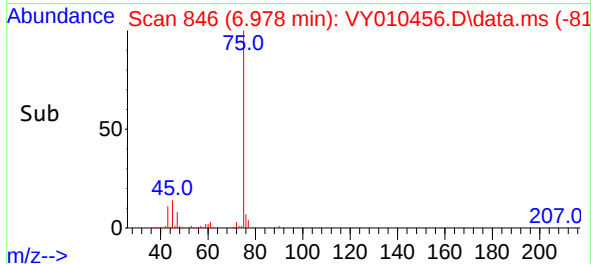
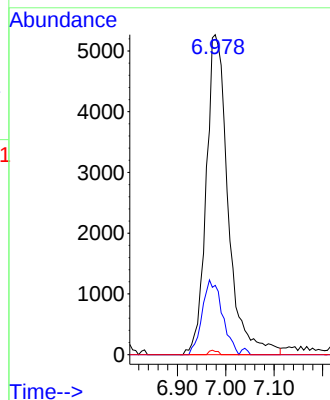
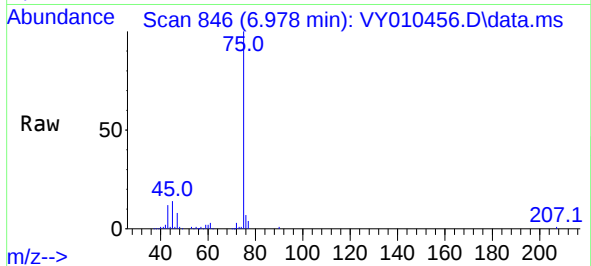




#37
Ethyl Acetate
Concen: 10.491 ug/l
RT: 6.978 min Scan# 84
Delta R.T. -0.092 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

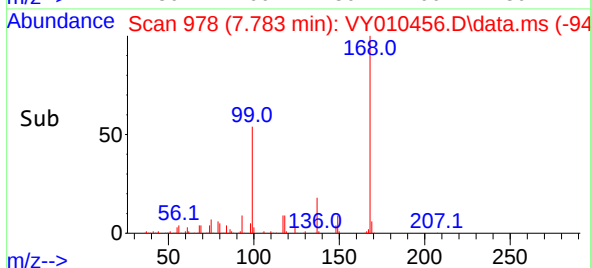
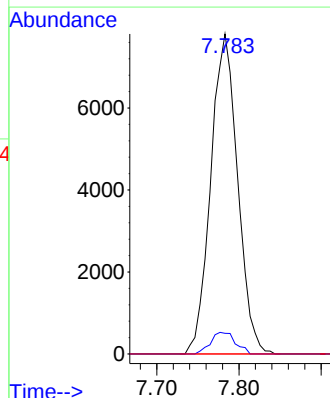
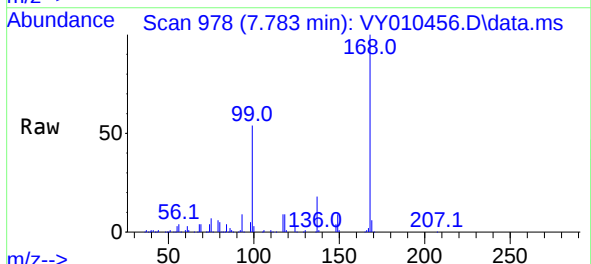
Instrument :
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D-CRTE-SLAB-1

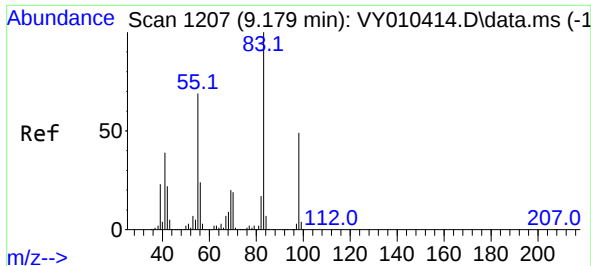
Tgt Ion: 43 Resp: 16664
Ion Ratio Lower Upper
43 100
61 21.3 9.7 14.5#
70 0.5 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 5.271 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.116 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 117 Resp: 17718
Ion Ratio Lower Upper
117 100
119 6.4 77.9 116.9#
121 0.0 24.8 37.2#





#39

Methylcyclohexane

Concen: 10.978 ug/l

RT: 9.179 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY010456.D

Acq: 13 Sep 2022 14:12

Instrument :

MSVOA_Y

ClientSampleId :

D-CRTE-SLAB-1

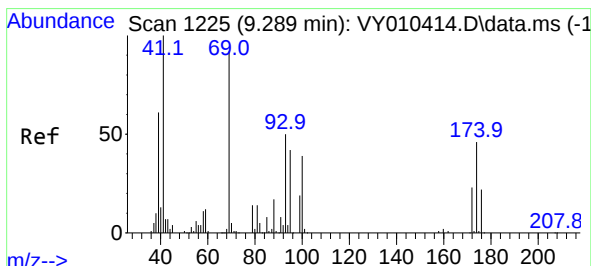
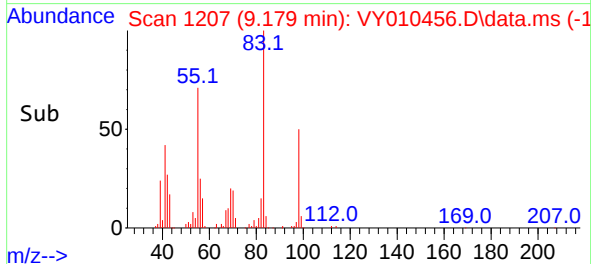
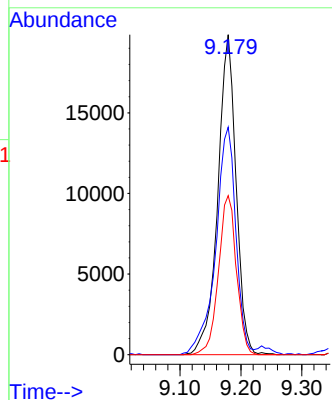
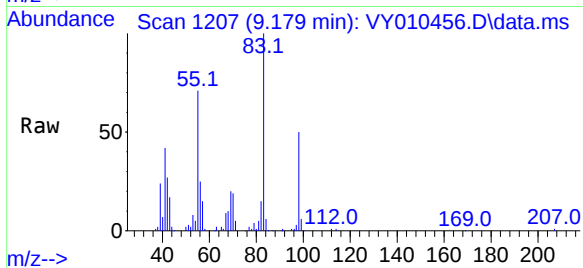
Tgt Ion: 83 Resp: 41362

Ion Ratio Lower Upper

83 100

55 71.1 66.5 99.7

98 49.7 37.9 56.9



#48

Methyl methacrylate

Concen: 1.978 ug/l

RT: 9.240 min Scan# 1217

Delta R.T. -0.049 min

Lab File: VY010456.D

Acq: 13 Sep 2022 14:12

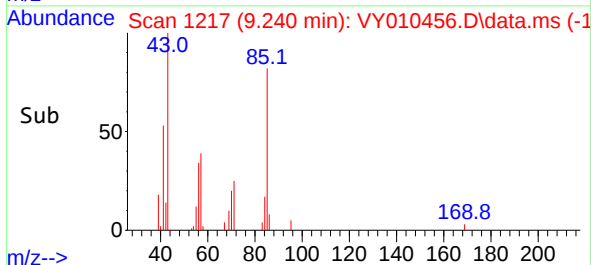
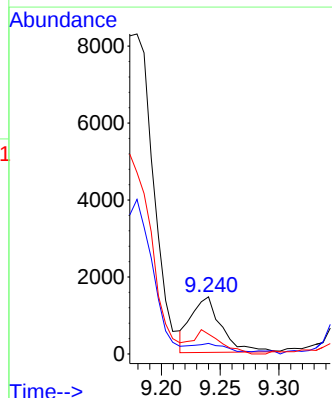
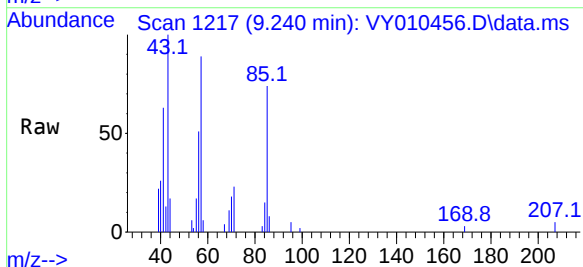
Tgt Ion: 41 Resp: 2582

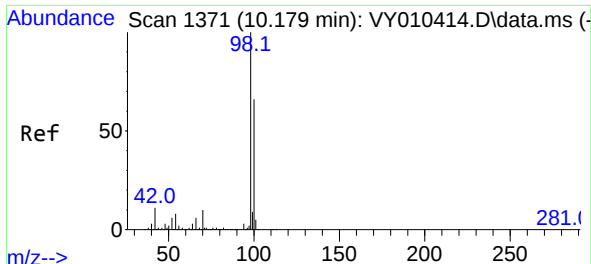
Ion Ratio Lower Upper

41 100

69 0.0 58.2 87.2#

39 40.3 47.4 71.0#

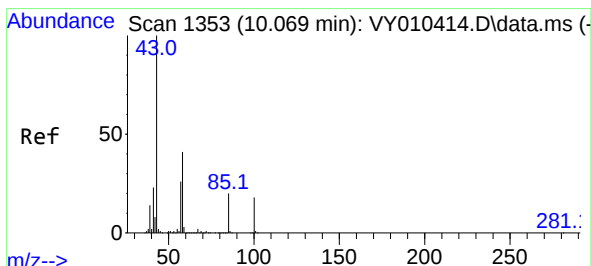
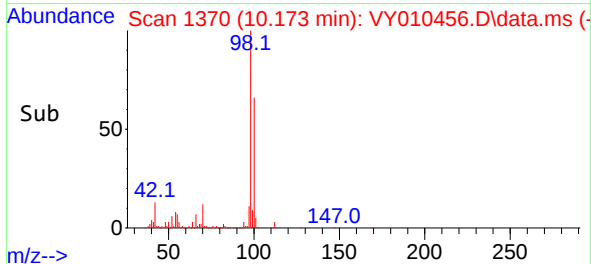
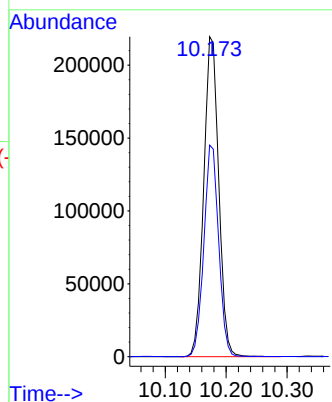
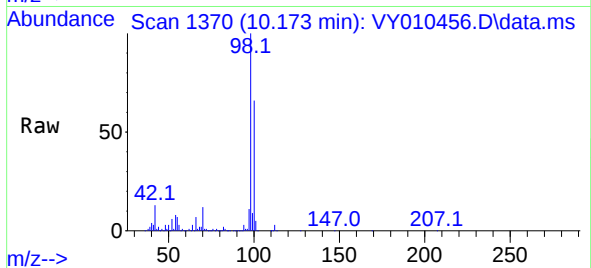




#50
Toluene-d8
Concen: 52.520 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. -0.006 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

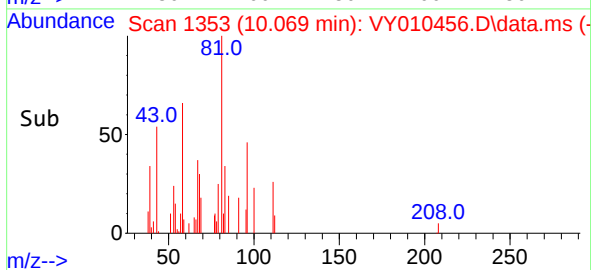
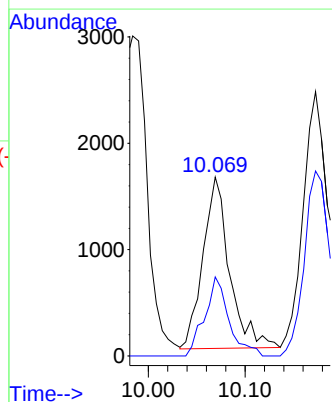
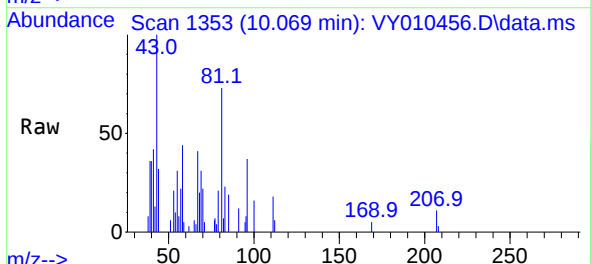
Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

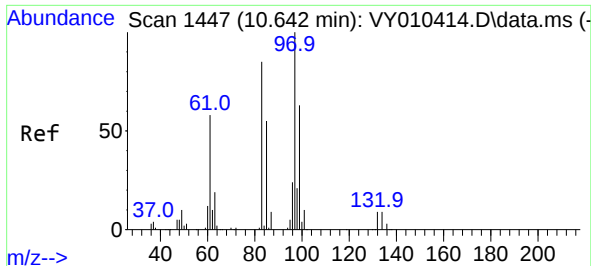
Tgt Ion: 98 Resp: 375691
Ion Ratio Lower Upper
98 100
100 65.1 50.2 75.2



#51
4-Methyl-2-Pentanone
Concen: 1.930 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. 0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 43 Resp: 3078
Ion Ratio Lower Upper
43 100
58 41.9 28.1 42.1

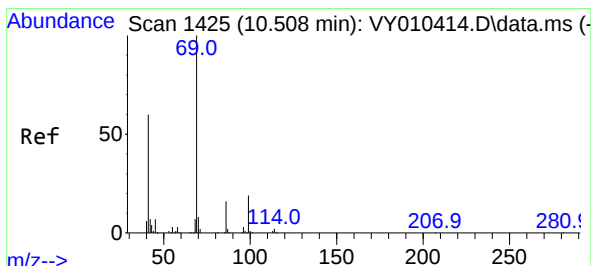
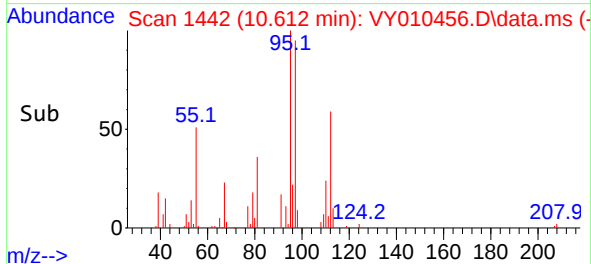
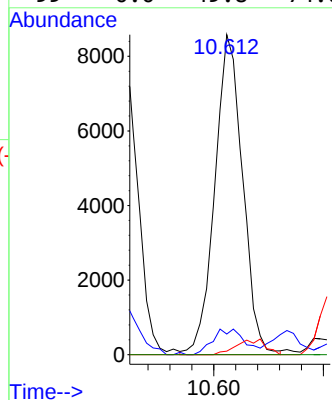
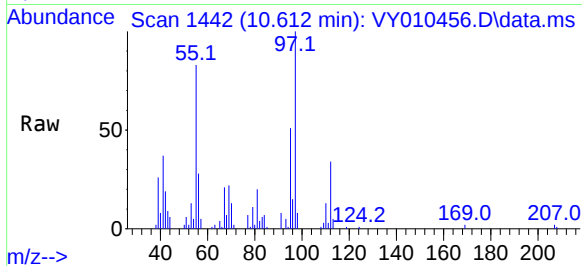




#55
1,1,2-Trichloroethane
Concen: 8.293 ug/l
RT: 10.612 min Scan# 1447
Delta R.T. -0.030 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

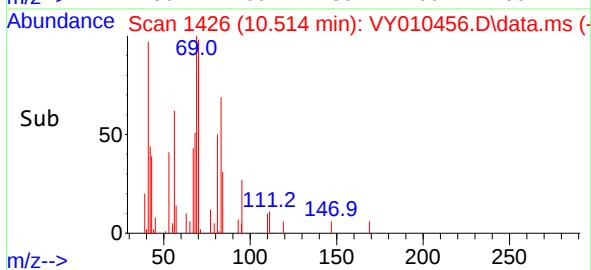
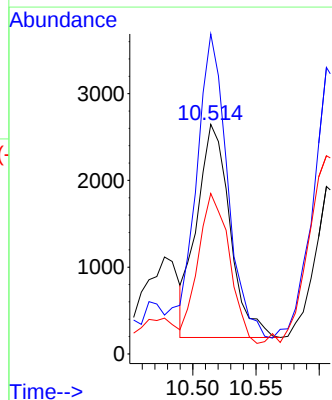
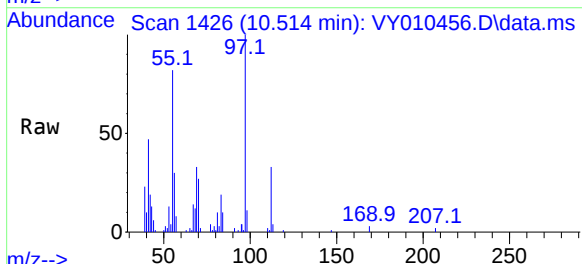
Instrument : MSVOA_Y
ClientSampleId : D-CRTE-SLAB-1

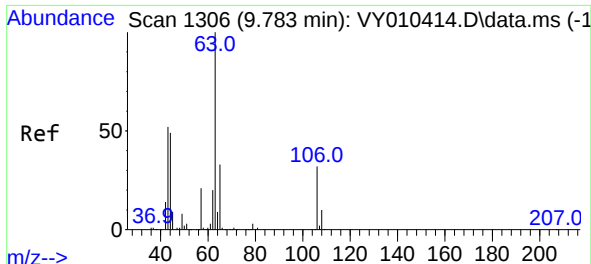
Tgt Ion:	97	Resp:	15091
Ion	Ratio	Lower	Upper
97	100		
83	5.8	69.8	104.8#
85	1.1	44.3	66.5#
99	0.0	49.8	74.6#



#56
Ethyl methacrylate
Concen: 1.873 ug/l
RT: 10.514 min Scan# 1426
Delta R.T. 0.006 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion:	69	Resp:	4476
Ion	Ratio	Lower	Upper
69	100		
41	136.4	63.4	95.0#
39	66.6	35.8	53.8#

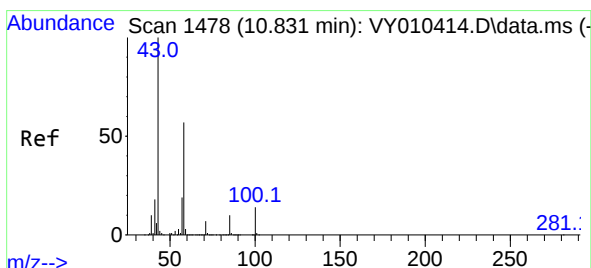
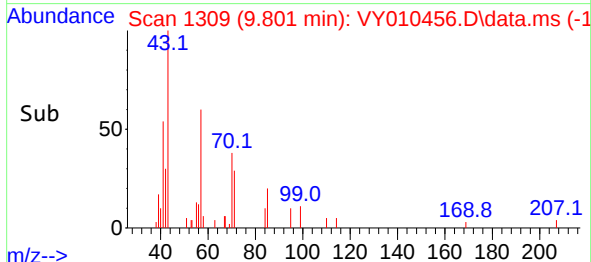
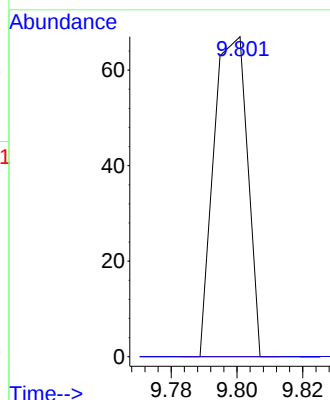
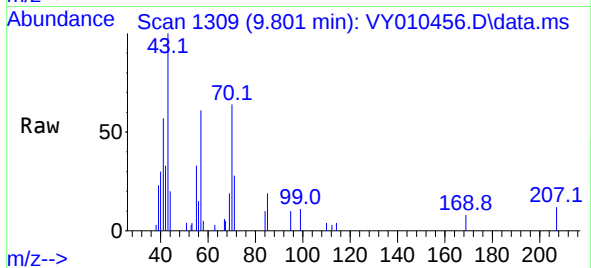




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 9.801 min Scan# 11
Delta R.T. 0.018 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

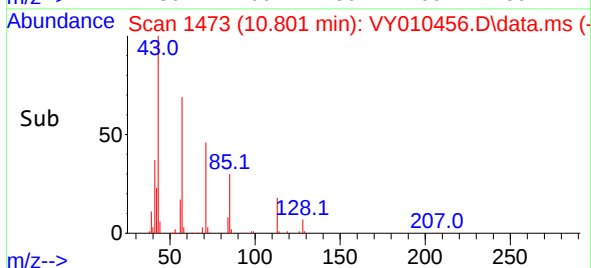
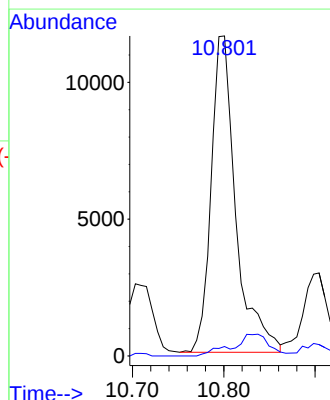
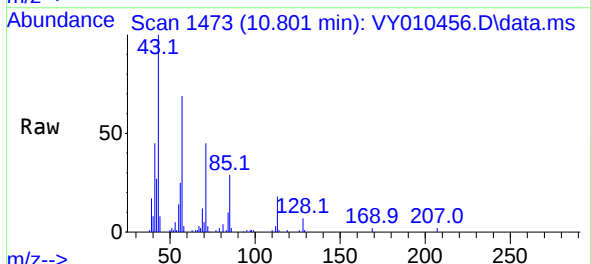
Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

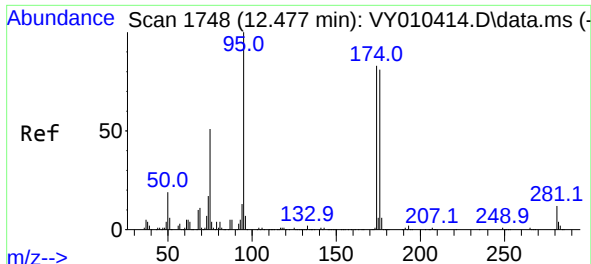
Tgt Ion: 63 Resp: 48
Ion Ratio Lower Upper
63 100
106 0.0 21.5 32.3#



#59
2-Hexanone
Concen: 19.981 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.030 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 43 Resp: 21717
Ion Ratio Lower Upper
43 100
58 2.3 24.4 73.4#

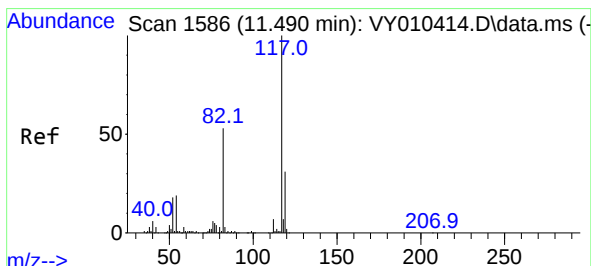
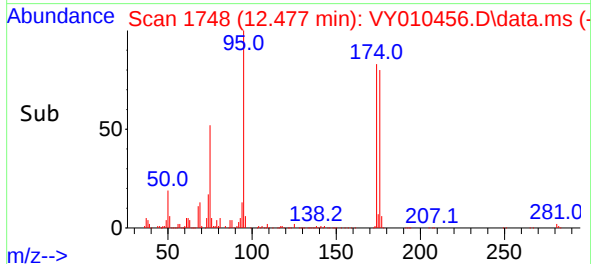
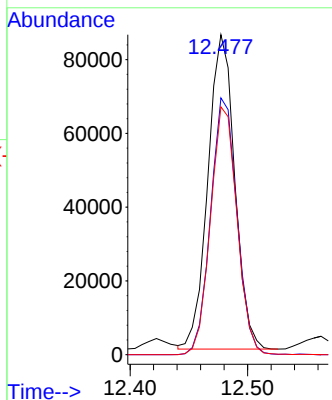
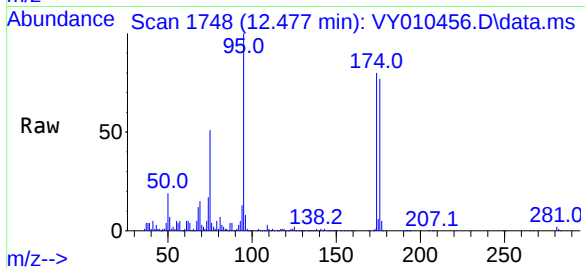




#62
4-Bromofluorobenzene
Concen: 47.299 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

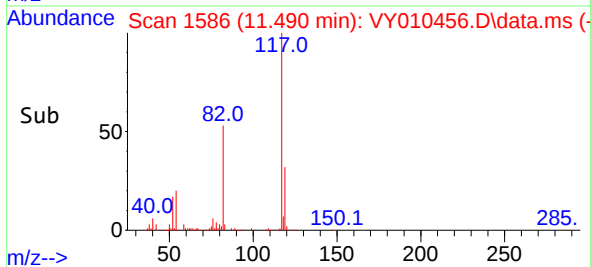
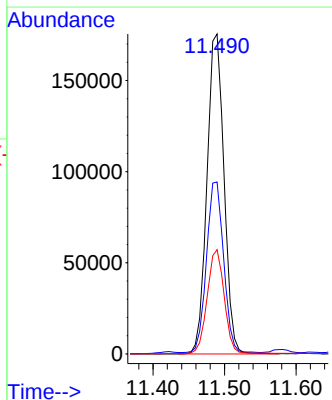
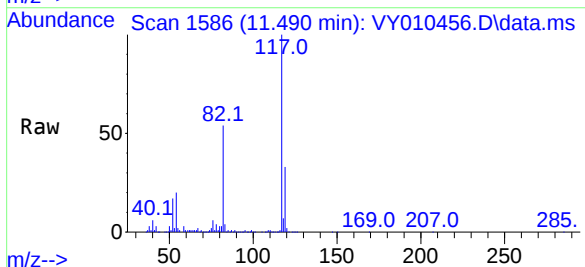
Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

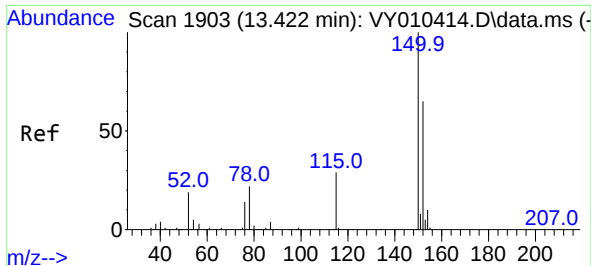
Tgt Ion: 95 Resp: 135054
Ion Ratio Lower Upper
95 100
174 80.4 0.0 177.0
176 78.0 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 117 Resp: 290682
Ion Ratio Lower Upper
117 100
82 53.3 43.0 64.4
119 32.4 25.4 38.0

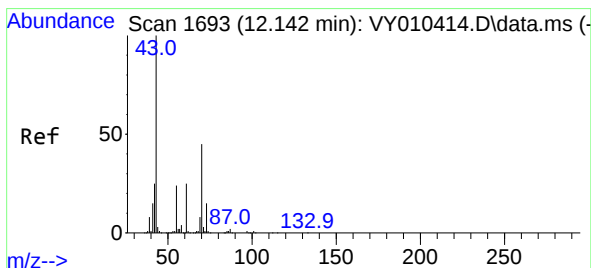
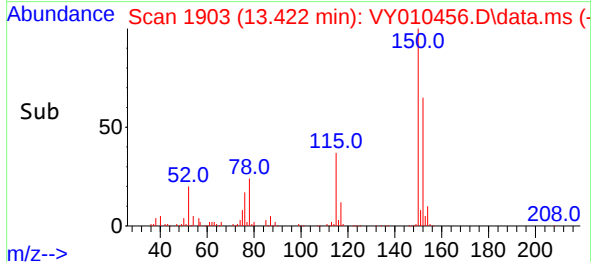
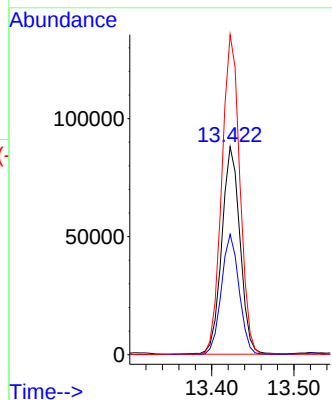
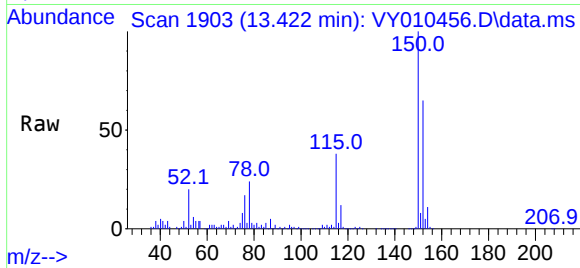




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

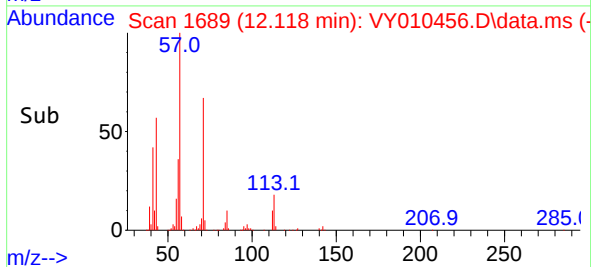
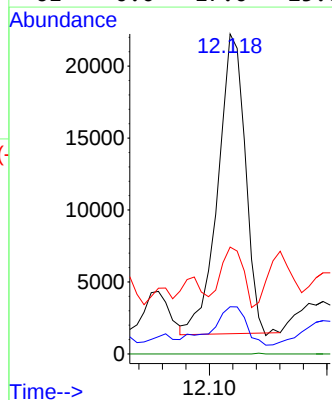
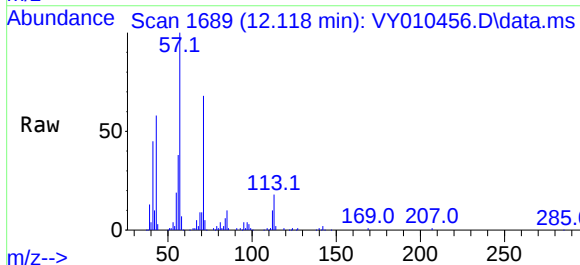
Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

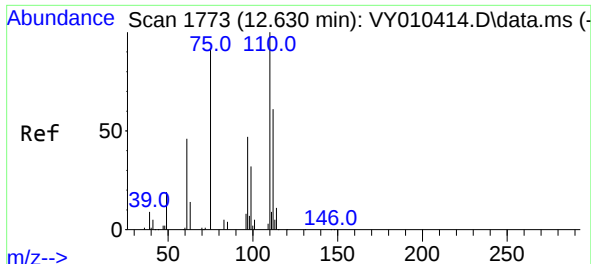
Tgt Ion:152 Resp: 135790
Ion Ratio Lower Upper
152 100
115 56.6 28.2 84.7
150 152.0 0.0 347.6



#74
N-ethyl acetate
Concen: 13.586 ug/l
RT: 12.118 min Scan# 1689
Delta R.T. -0.024 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 43 Resp: 33585
Ion Ratio Lower Upper
43 100
70 15.9 28.7 43.1#
55 17.3 17.3 25.9
61 0.0 17.0 25.6#

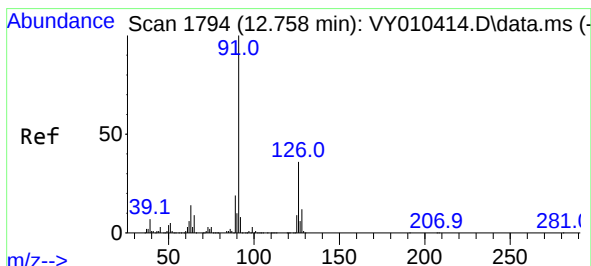
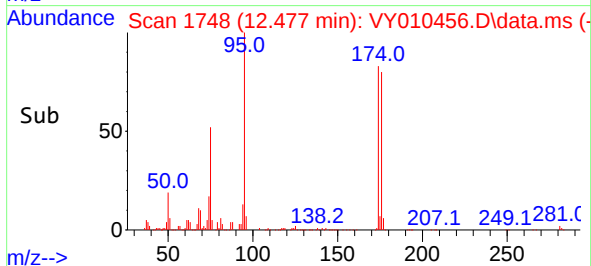
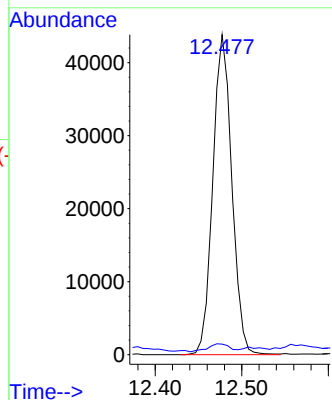
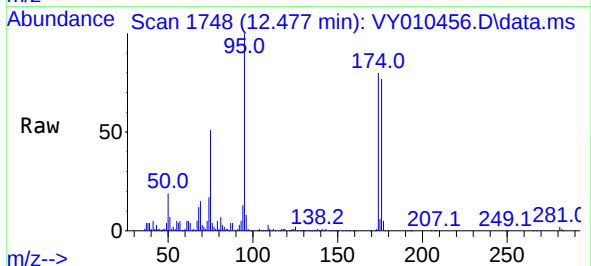




#76
1,2,3-Trichloropropane
Concen: 44.609 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.153 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

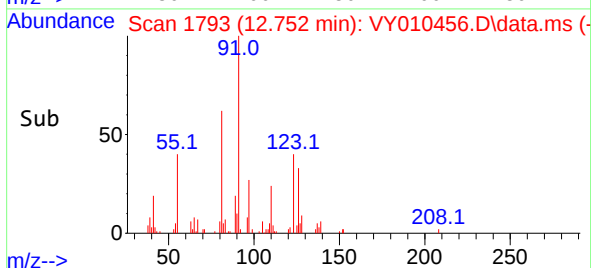
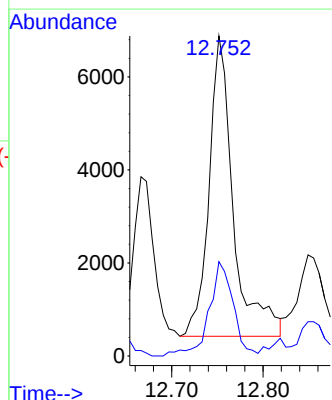
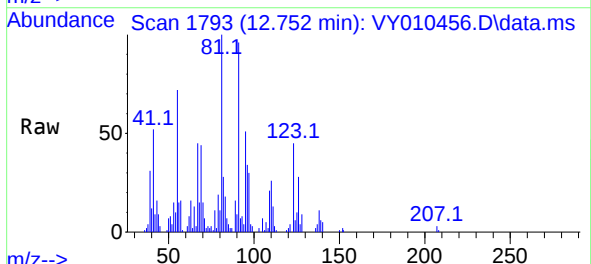
Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

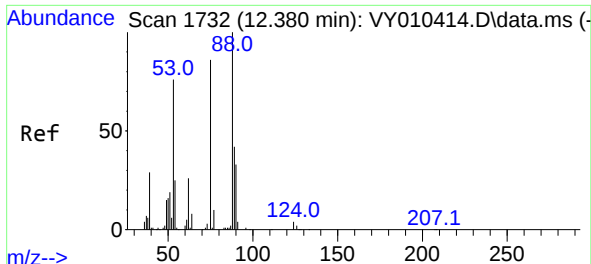
Tgt Ion: 75 Resp: 66854
Ion Ratio Lower Upper
75 100
77 2.8 0.0 0.0#



#79
2-Chlorotoluene
Concen: 1.690 ug/l
RT: 12.752 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 91 Resp: 11913
Ion Ratio Lower Upper
91 100
126 31.0 16.9 50.6

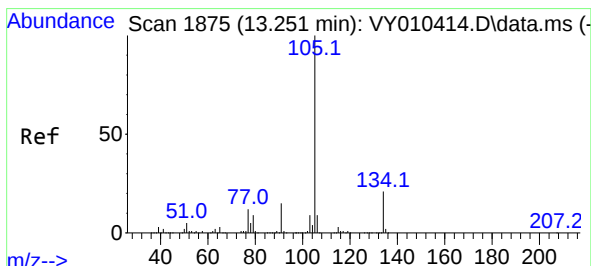
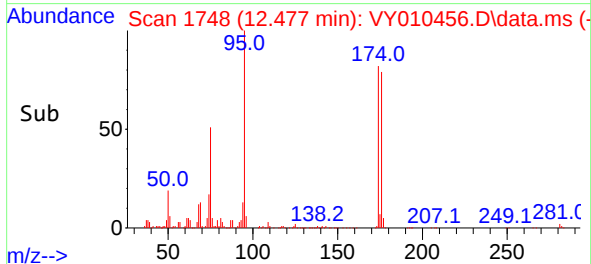
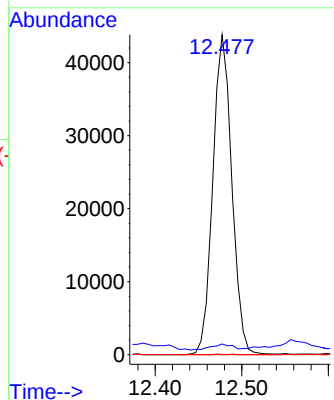
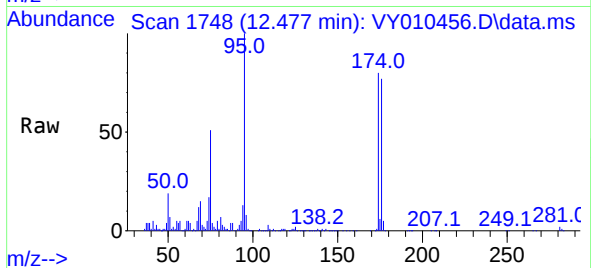




#81
trans-1,4-Dichloro-2-butene
Concen: 99.048 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

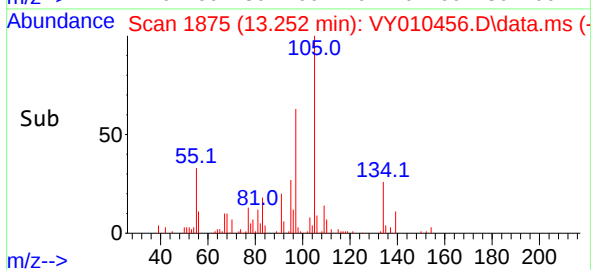
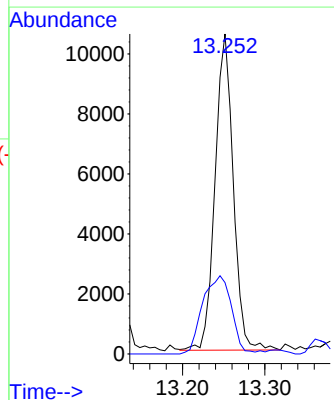
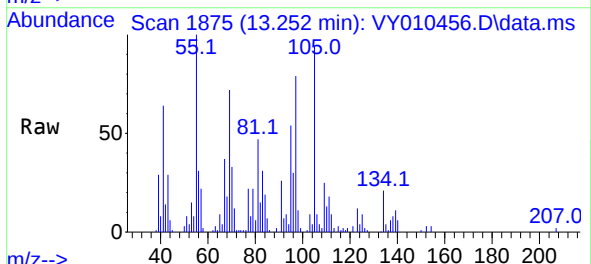
Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

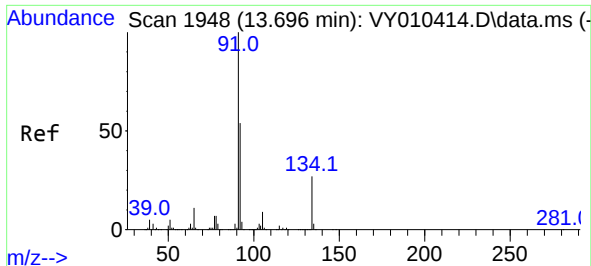
Tgt Ion: 75 Resp: 66854
Ion Ratio Lower Upper
75 100
53 2.2 85.3 127.9#
89 0.1 37.0 55.4#



#85
sec-Butylbenzene
Concen: 1.402 ug/l
RT: 13.252 min Scan# 1875
Delta R.T. 0.001 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 105 Resp: 16219
Ion Ratio Lower Upper
105 100
134 39.0 10.2 30.4#





#89

n-Butylbenzene

Concen: 2.334 ug/l

RT: 13.697 min Scan# 1948

Delta R.T. 0.001 min

Lab File: VY010456.D

Acq: 13 Sep 2022 14:12

Instrument :

MSVOA_Y

ClientSampleId :

D-CRTE-SLAB-1

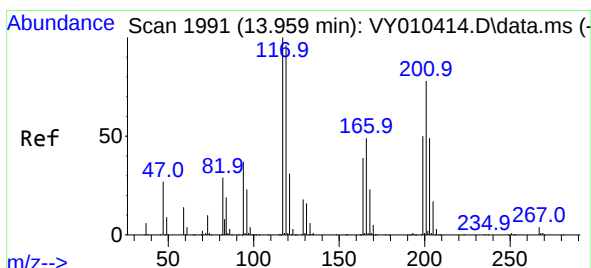
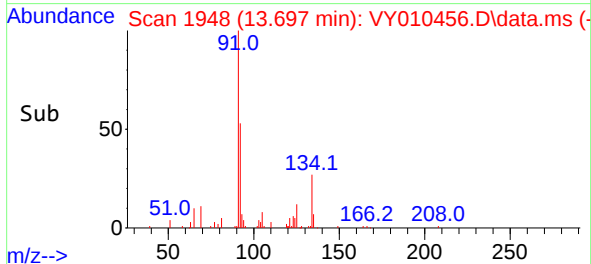
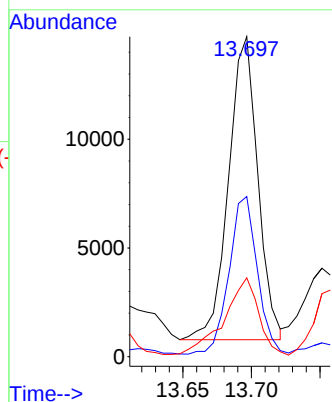
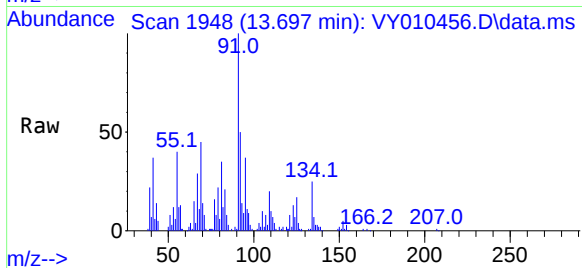
Tgt Ion: 91 Resp: 20729

Ion Ratio Lower Upper

91 100

92 50.1 26.3 78.9

134 30.1 13.0 38.9



#90

Hexachloroethane

Concen: 6.105 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY010456.D

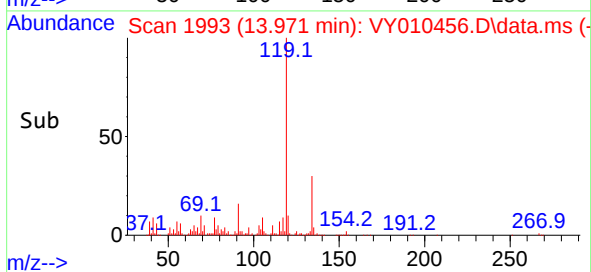
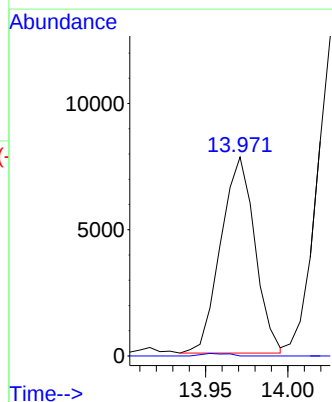
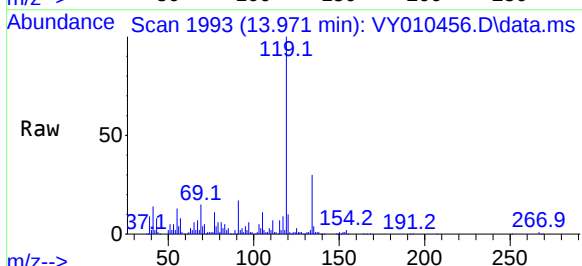
Acq: 13 Sep 2022 14:12

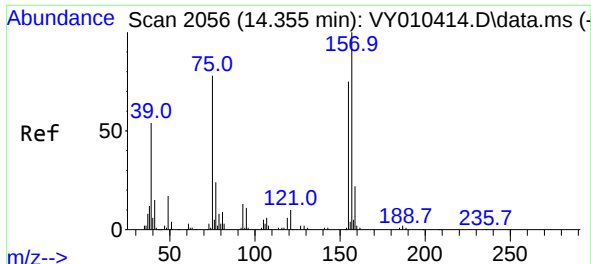
Tgt Ion: 117 Resp: 11217

Ion Ratio Lower Upper

117 100

201 1.0 43.0 128.8#

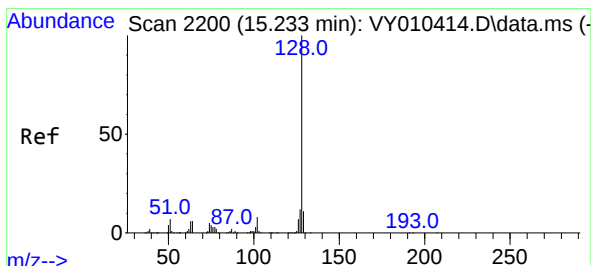
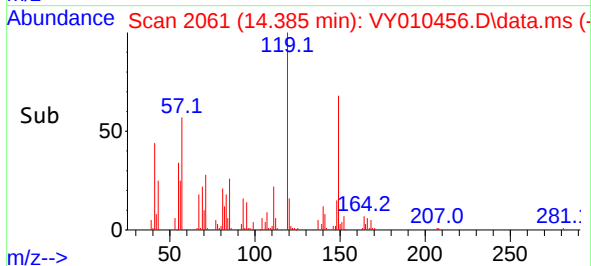
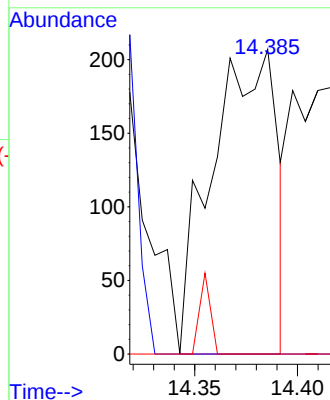
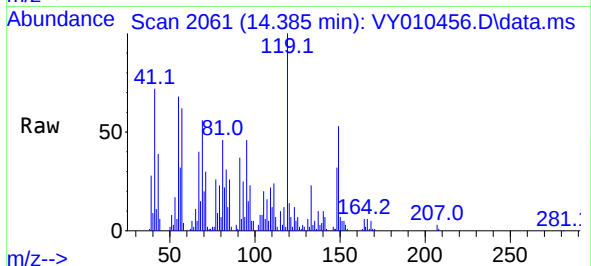




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.360 ug/l
RT: 14.385 min Scan# 2056
Delta R.T. 0.030 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Instrument :
MSVOA_Y
ClientSampleId :
D-CRTE-SLAB-1

Tgt Ion: 75 Resp: 455
Ion Ratio Lower Upper
75 100
155 0.0 38.0 113.9#
157 0.0 47.8 143.3#



#95
Naphthalene
Concen: 1.768 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY010456.D
Acq: 13 Sep 2022 14:12

Tgt Ion: 128 Resp: 9671
Ion Ratio Lower Upper
128 100
127 0.0 11.0 16.4#
129 0.0 8.4 12.6#

