

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031822\
 Data File : VY007931.D
 Acq On : 19 Mar 2022 04:00
 Operator : SY/MD
 Sample : N1958-11
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 C-11-10-11

Quant Time: Mar 21 03:19:48 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y031722S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 17 13:55:34 2022
 Response via : Initial Calibration

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

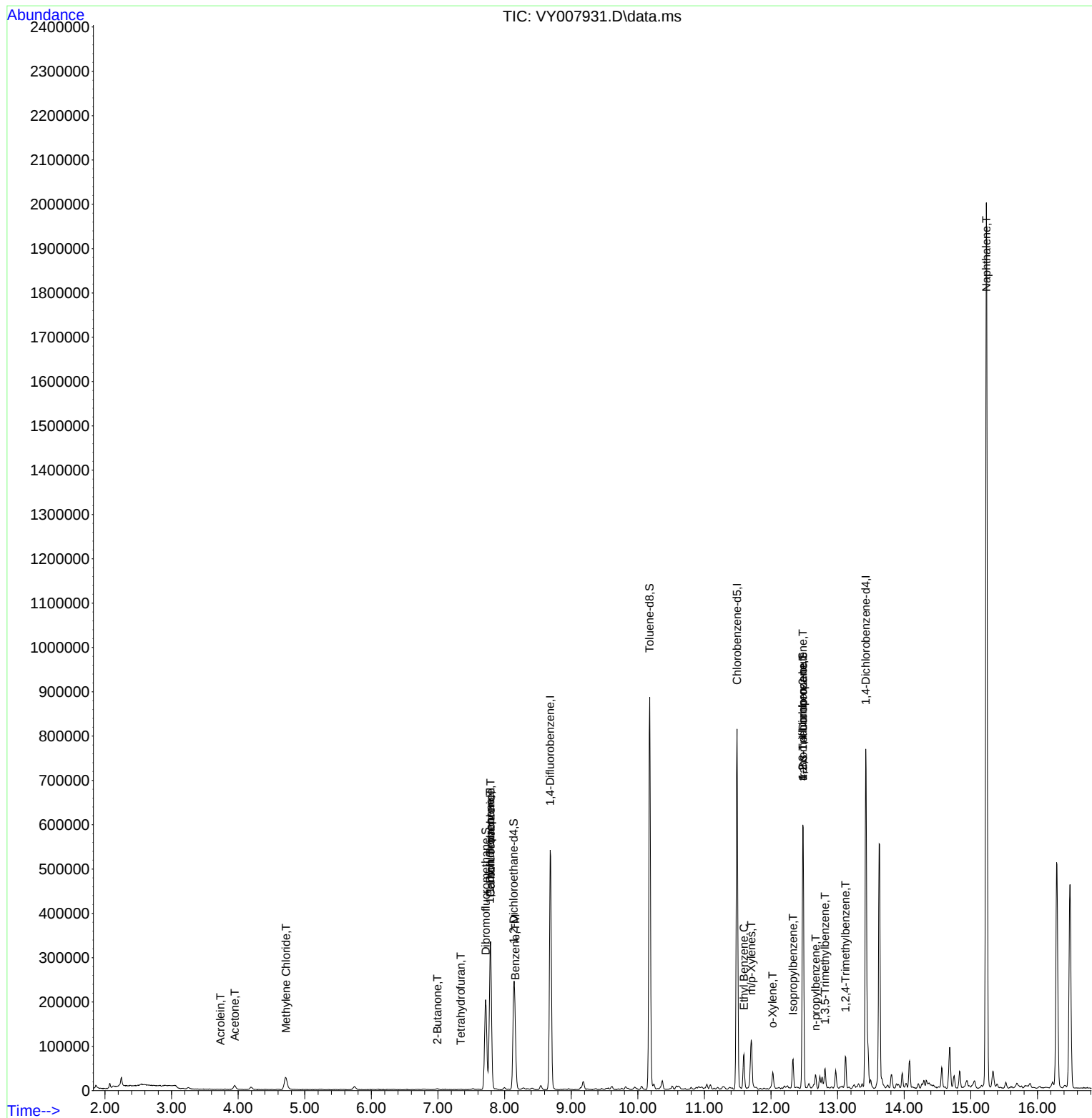
Internal Standards						
1) Pentafluorobenzene	7.789	168	246940	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	462459	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	428891	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	186061	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	159179	56.535	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.080%	
35) Dibromofluoromethane	7.716	113	144951	44.630	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 89.260%	
50) Toluene-d8	10.179	98	565781	58.716	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 117.440%	
62) 4-Bromofluorobenzene	12.477	95	201894	43.314	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 86.620%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.906	85	73	Below Cal	#	43
3) Chloromethane	2.107	50	806	Below Cal	#	51
4) Vinyl Chloride	2.235	62	71	Below Cal	#	43
5) Bromomethane	2.649	94	180	Below Cal	#	4
13) Acrolein	3.735	56	256	1.296	ug/l #	57
16) Acetone	3.948	43	14921	19.976	ug/l	97
17) Carbon Disulfide	4.186	76	9874	Below Cal		96
18) Methyl Acetate	4.472	43	106	Below Cal	#	56
20) Methylene Chloride	4.716	84	20567	2.729	ug/l	86
25) 2-Butanone	6.990	43	4659	3.894	ug/l #	87
29) Tetrahydrofuran	7.344	42	855	1.115	ug/l #	74
31) Cyclohexane	7.783	56	7298	Below Cal	#	18
36) 1,1-Dichloropropene	7.783	75	20379	4.231	ug/l #	51
38) Carbon Tetrachloride	7.789	117	26061	5.063	ug/l #	16
39) Methylcyclohexane	9.185	83	7590	Below Cal		92
40) Benzene	8.161	78	77001	5.470	ug/l	94
67) Ethyl Benzene	11.593	91	51878	2.835	ug/l	100
68) m/p-Xylenes	11.703	106	32311	4.526	ug/l	98
69) o-Xylene	12.026	106	9339	1.352	ug/l	95
73) Isopropylbenzene	12.331	105	40048	2.445	ug/l	99
76) 1,2,3-Trichloropropane	12.477	75	104750	39.499	ug/l #	100
78) n-propylbenzene	12.672	91	24179	1.223	ug/l	98
80) 1,3,5-Trimethylbenzene	12.812	105	17956	1.333	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.477	75	104750	82.963	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.117	105	39175	2.967	ug/l	99
95) Naphthalene	15.233	128	1614936	174.164	ug/l	99

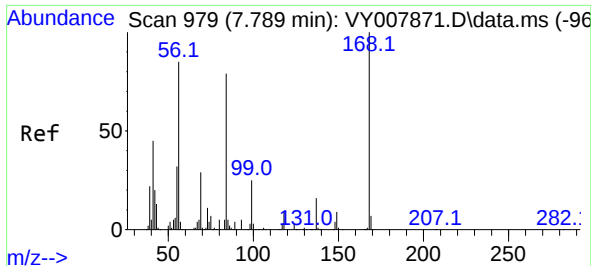
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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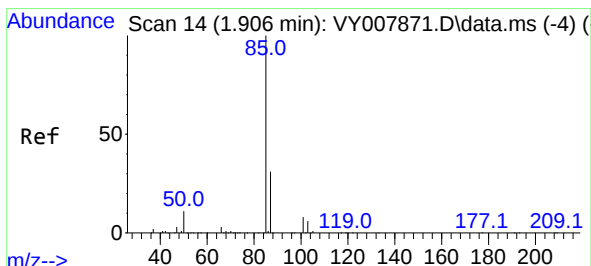
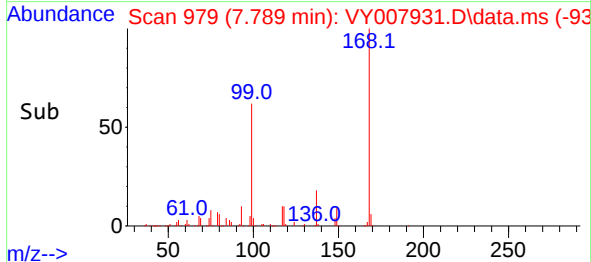
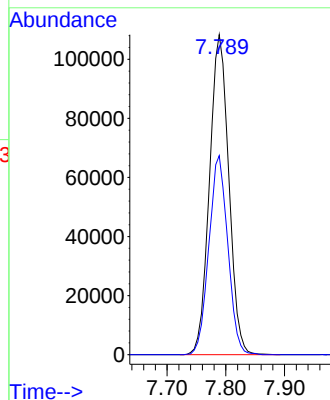
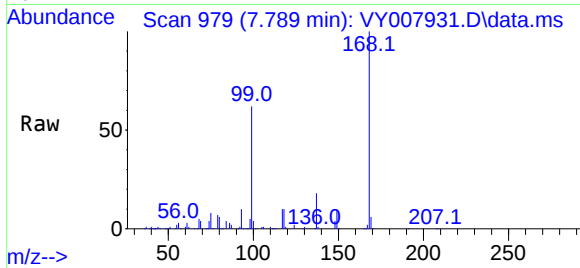




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

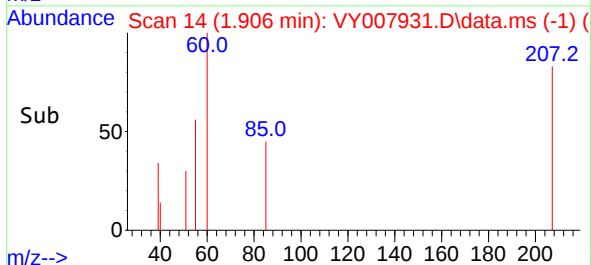
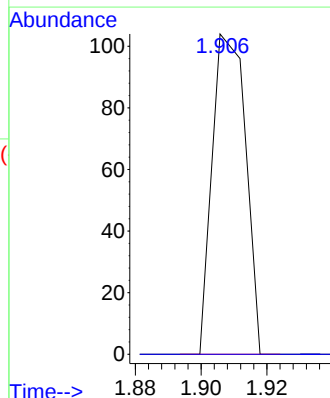
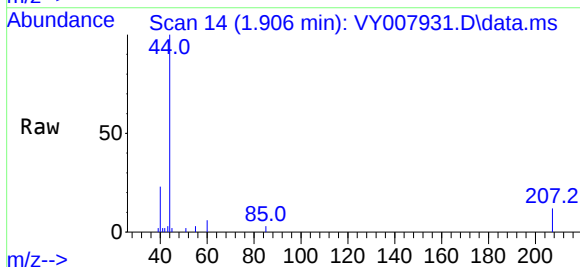
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

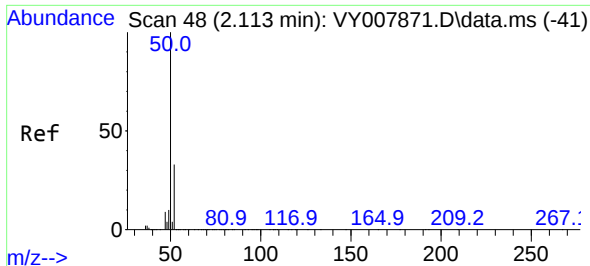
Tgt Ion:168 Resp: 246940
Ion Ratio Lower Upper
168 100
99 62.2 46.9 70.3



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.906 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 85 Resp: 73
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

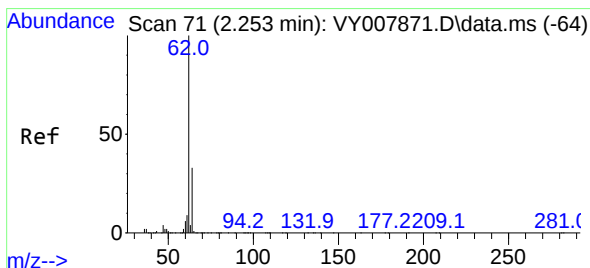
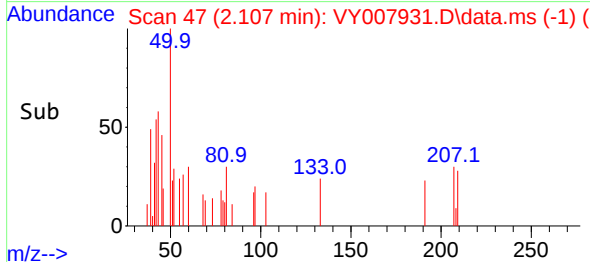
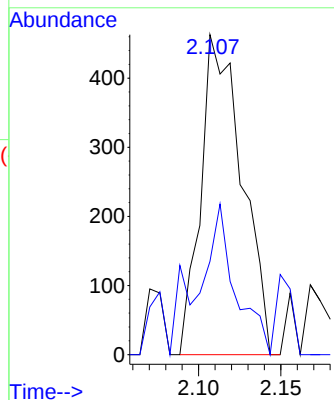
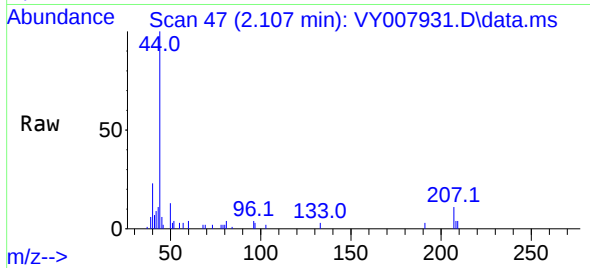




#3
Chloromethane
Concen: Below Cal
RT: 2.107 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

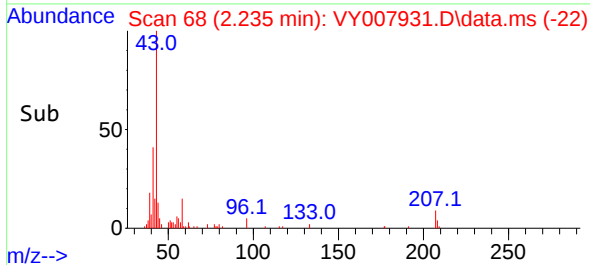
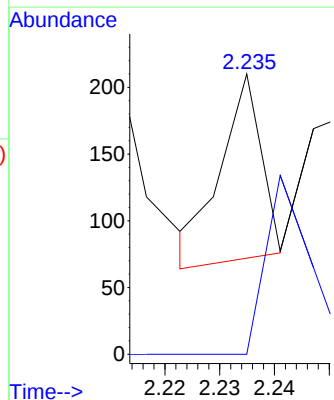
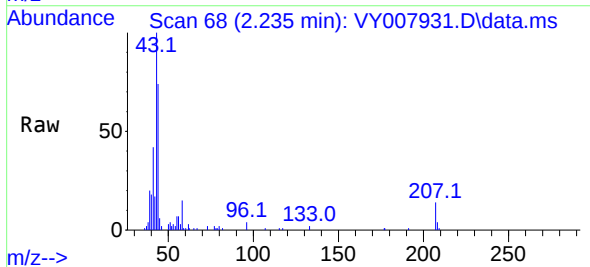
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

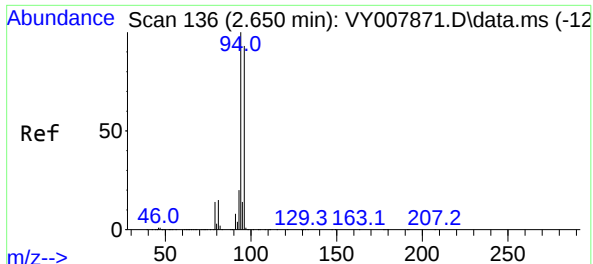
Tgt Ion: 50 Resp: 806
Ion Ratio Lower Upper
50 100
52 4.1 24.6 37.0#



#4
Vinyl Chloride
Concen: Below Cal
RT: 2.235 min Scan# 68
Delta R.T. -0.019 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 62 Resp: 71
Ion Ratio Lower Upper
62 100
64 0.0 25.0 37.6#

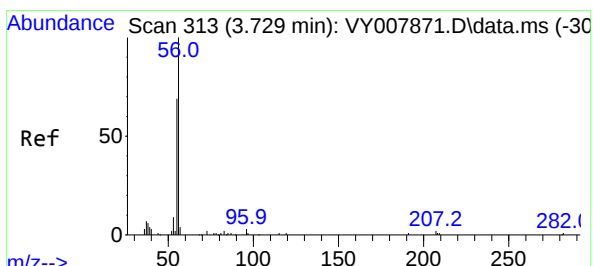
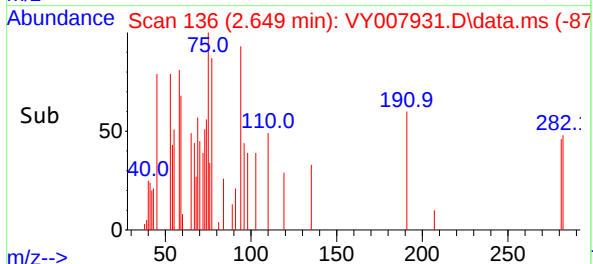
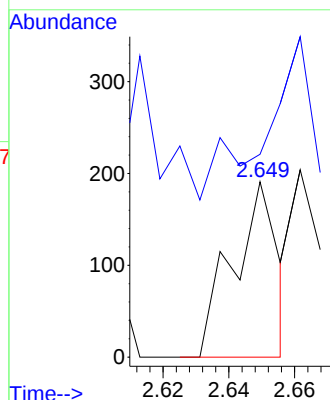
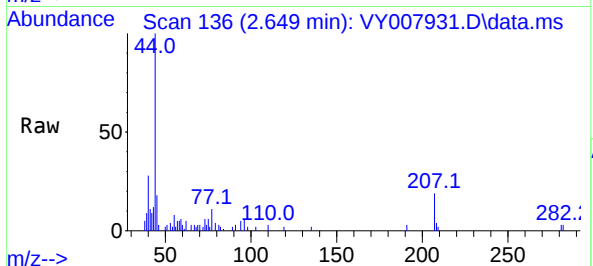




#5
Bromomethane
Concen: Below Cal
RT: 2.649 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

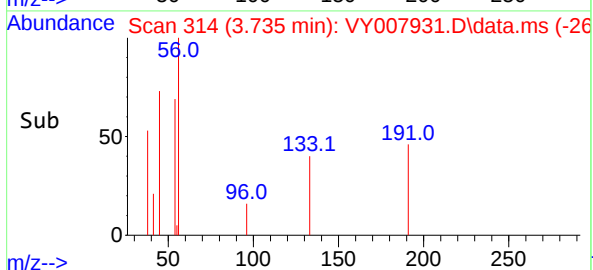
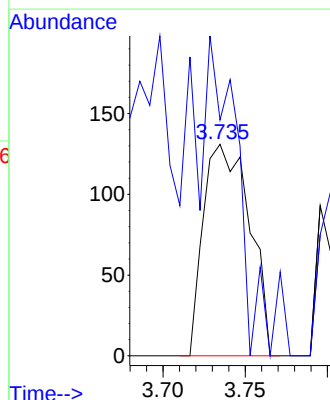
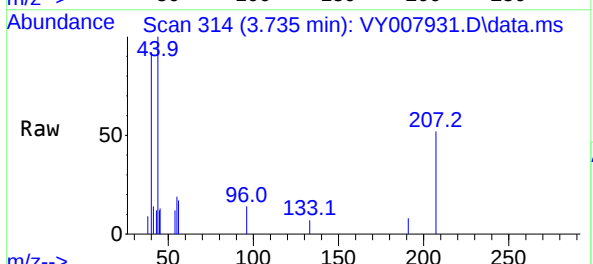
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

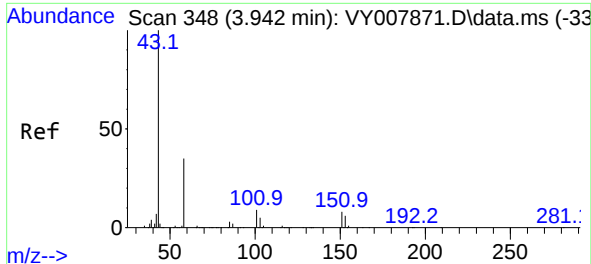
Tgt Ion: 94 Resp: 180
Ion Ratio Lower Upper
94 100
96 0.0 73.5 110.3#



#13
Acrolein
Concen: 1.296 ug/l
RT: 3.735 min Scan# 314
Delta R.T. 0.006 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 56 Resp: 256
Ion Ratio Lower Upper
56 100
55 107.4 57.6 86.4#





#16

Acetone

Concen: 19.976 ug/l

RT: 3.948 min Scan# 348

Delta R.T. 0.006 min

Lab File: VY007931.D

Acq: 19 Mar 2022 04:00

Instrument :

MSVOA_Y

ClientSampleId :

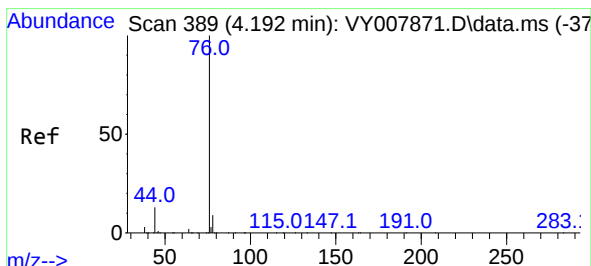
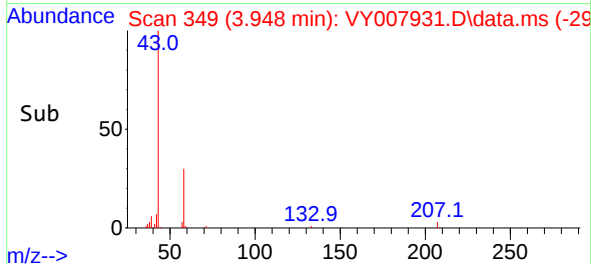
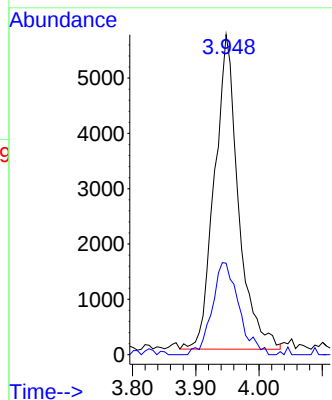
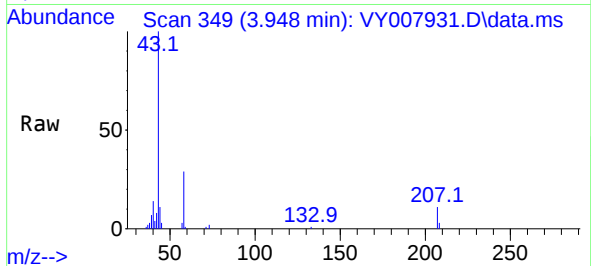
C-11-10-11

Tgt Ion: 43 Resp: 14921

Ion Ratio Lower Upper

43 100

58 29.1 22.0 33.0



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.186 min Scan# 388

Delta R.T. -0.006 min

Lab File: VY007931.D

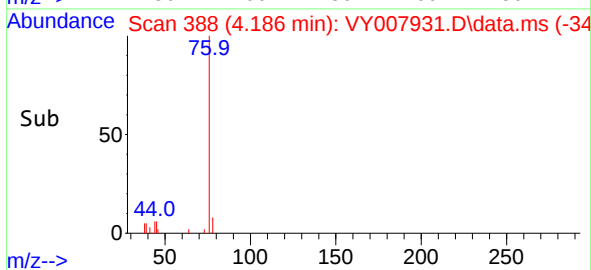
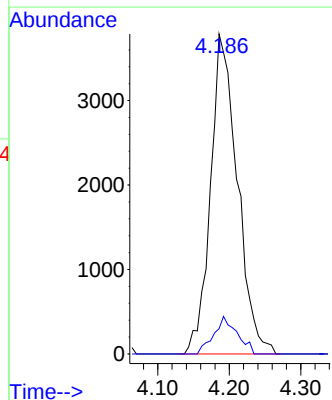
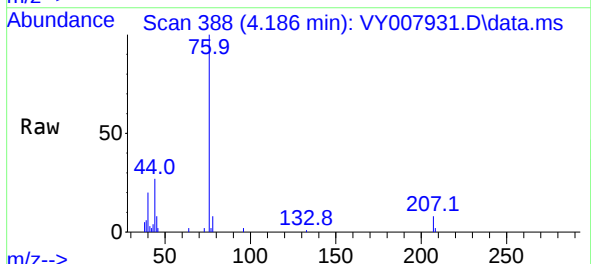
Acq: 19 Mar 2022 04:00

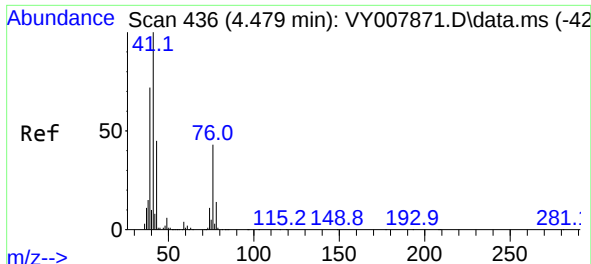
Tgt Ion: 76 Resp: 9874

Ion Ratio Lower Upper

76 100

78 7.9 7.4 11.0

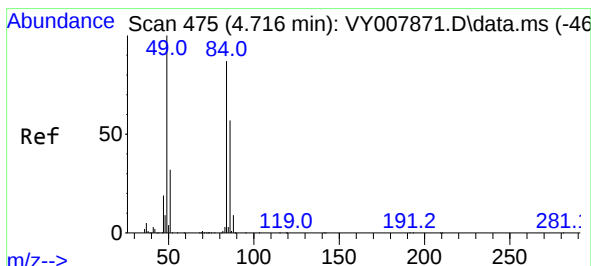
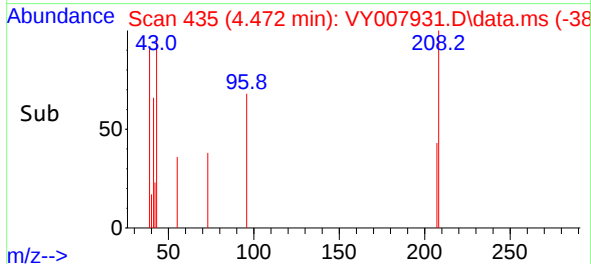
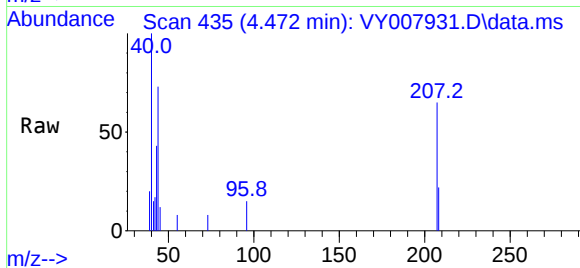




#18
Methyl Acetate
Concen: Below Cal
RT: 4.472 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

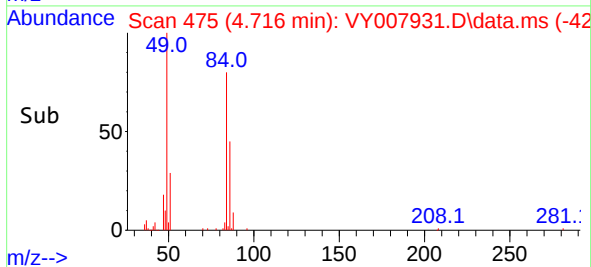
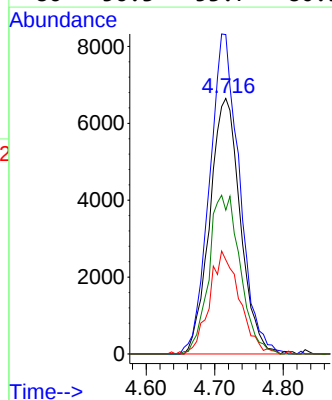
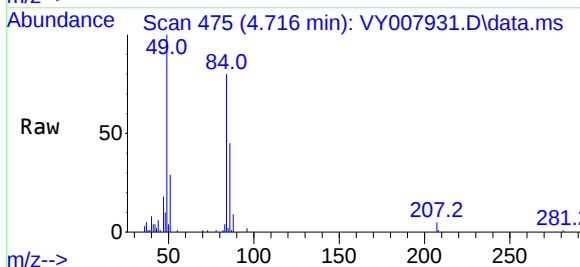
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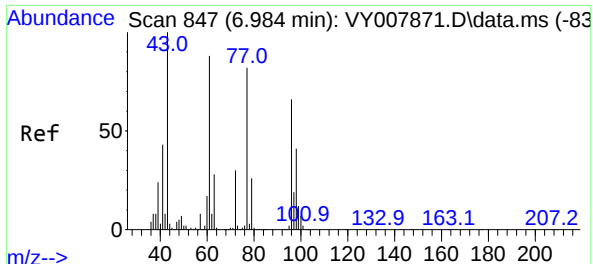
Tgt Ion: 43 Resp: 106
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#20
Methylene Chloride
Concen: 2.729 ug/l
RT: 4.716 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 84 Resp: 20567
Ion Ratio Lower Upper
84 100
49 125.0 114.4 171.6
51 36.8 35.3 52.9
86 56.3 53.7 80.5





#25

2-Butanone

Concen: 3.894 ug/l

RT: 6.990 min Scan# 84

Delta R.T. 0.006 min

Lab File: VY007931.D

Acq: 19 Mar 2022 04:00

Instrument :

MSVOA_Y

ClientSampleId :

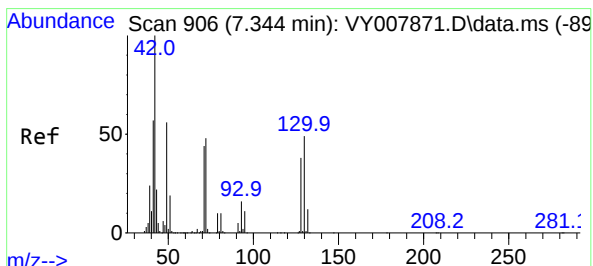
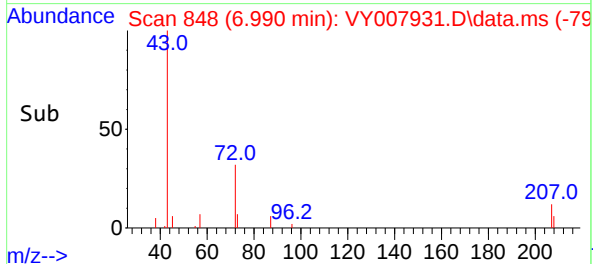
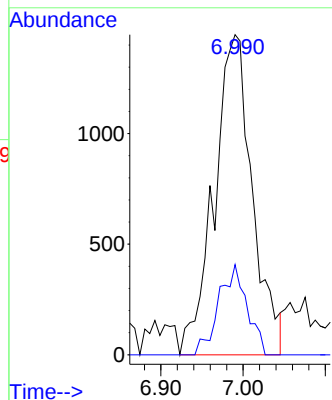
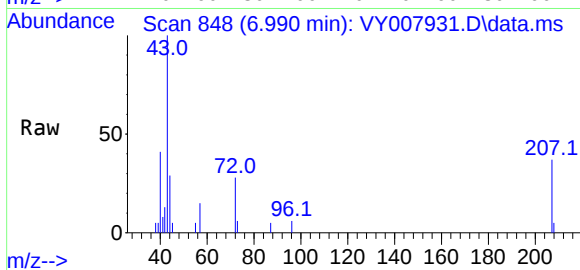
C-11-10-11

Tgt Ion: 43 Resp: 4659

Ion Ratio Lower Upper

43 100

72 28.2 17.7 26.5#



#29

Tetrahydrofuran

Concen: 1.115 ug/l

RT: 7.344 min Scan# 906

Delta R.T. -0.000 min

Lab File: VY007931.D

Acq: 19 Mar 2022 04:00

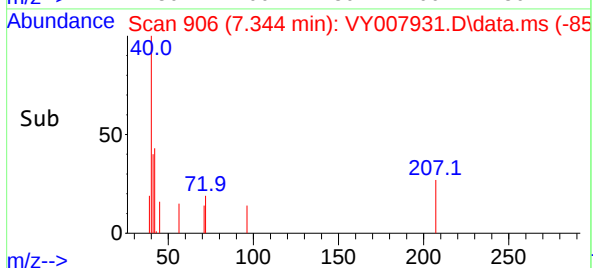
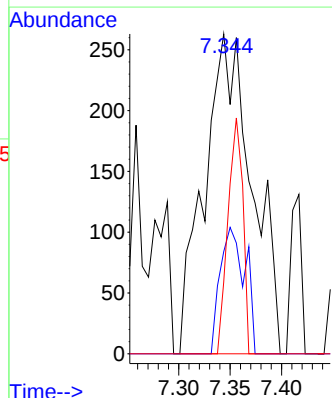
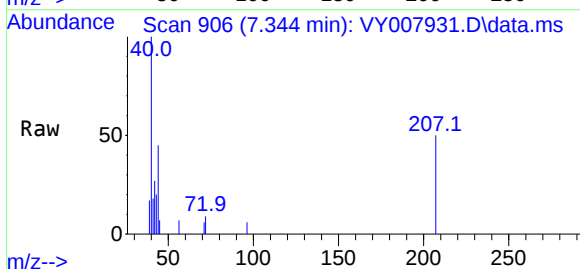
Tgt Ion: 42 Resp: 855

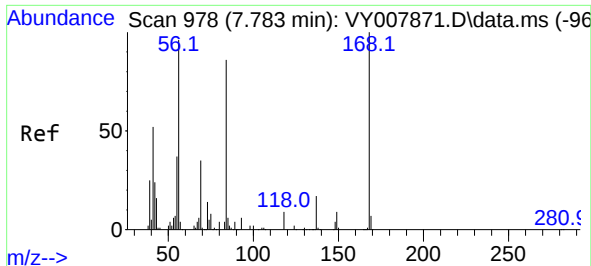
Ion Ratio Lower Upper

42 100

72 20.5 30.3 45.5#

71 22.8 29.0 43.4#

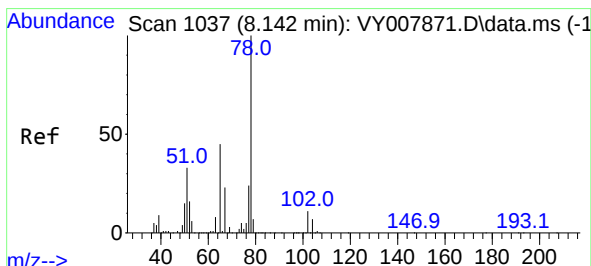
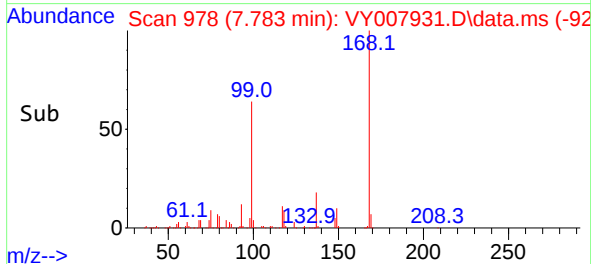
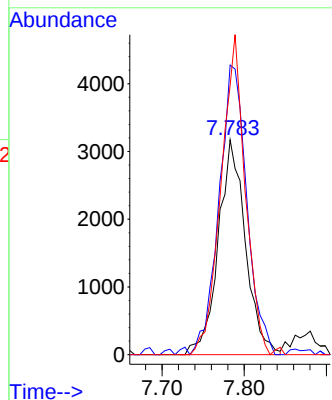
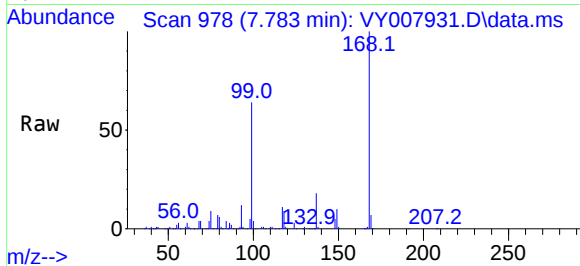




#31
Cyclohexane
Concen: Below Cal
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

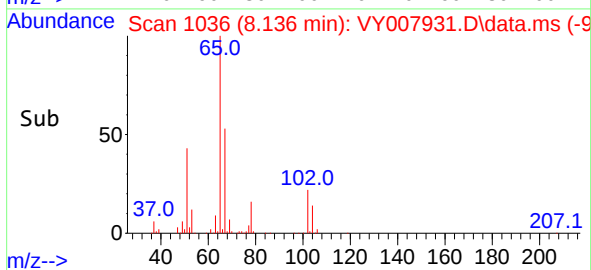
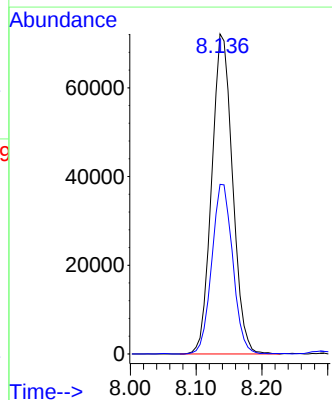
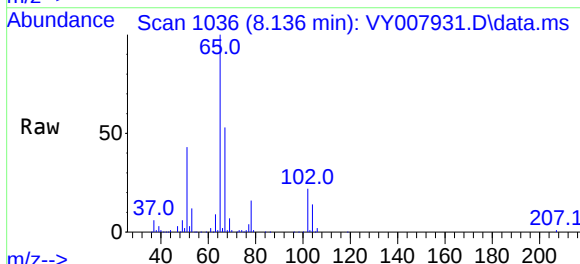
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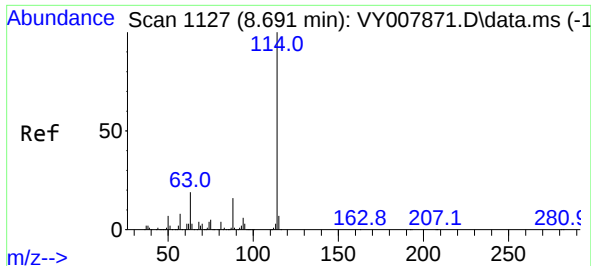
Tgt Ion: 56 Resp: 7298
Ion Ratio Lower Upper
56 100
69 134.8 26.7 40.1#
84 123.0 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 56.535 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 65 Resp: 159179
Ion Ratio Lower Upper
65 100
67 53.2 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VY007931.D

Acq: 19 Mar 2022 04:00

Instrument :

MSVOA_Y

ClientSampleId :

C-11-10-11

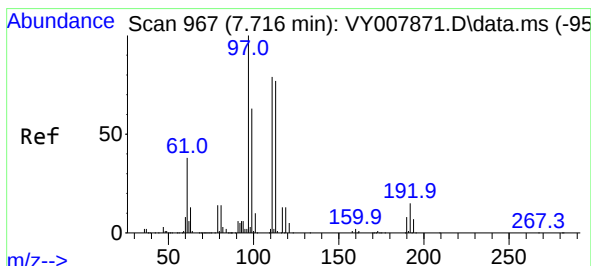
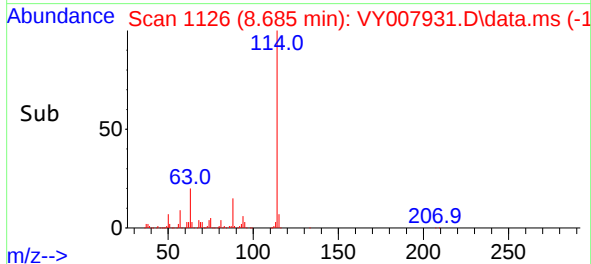
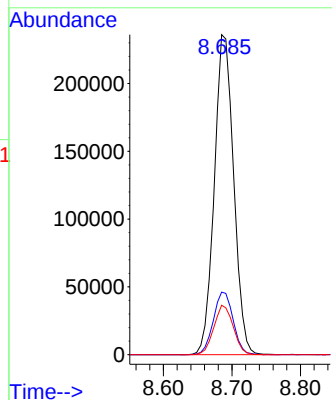
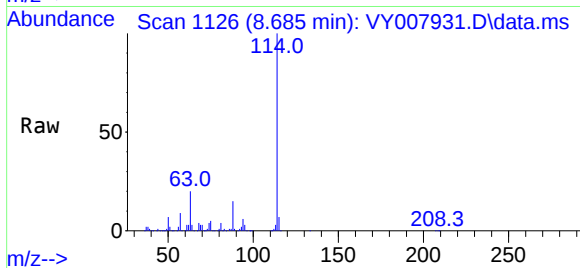
Tgt Ion:114 Resp: 462459

Ion Ratio Lower Upper

114 100

63 19.6 0.0 43.2

88 15.5 0.0 31.8



#35

Dibromofluoromethane

Concen: 44.630 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY007931.D

Acq: 19 Mar 2022 04:00

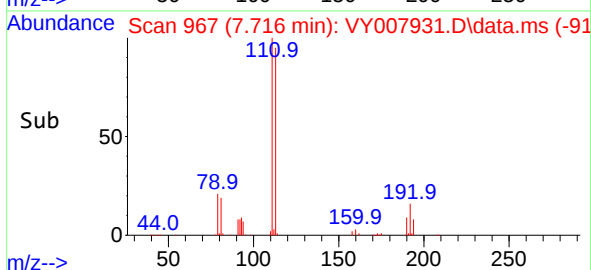
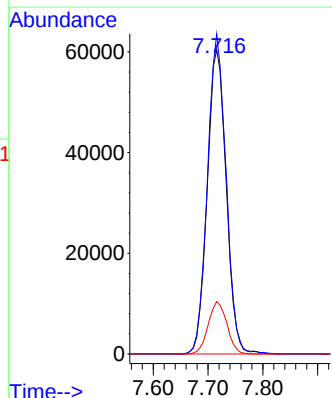
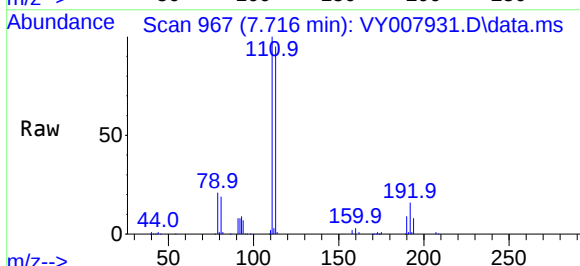
Tgt Ion:113 Resp: 144951

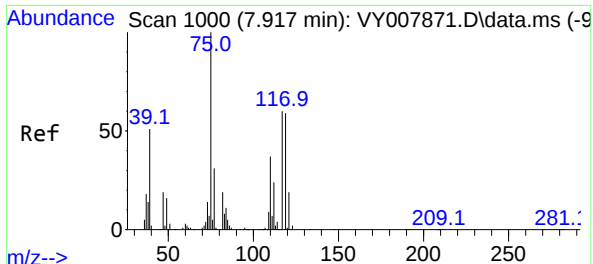
Ion Ratio Lower Upper

113 100

111 103.6 82.6 124.0

192 16.9 17.6 26.4#

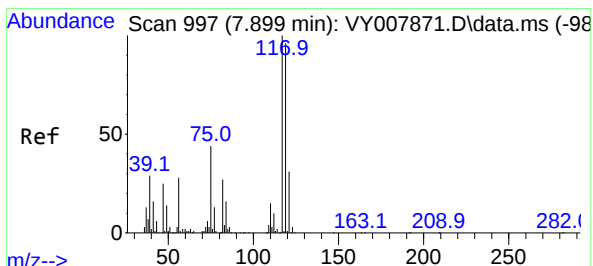
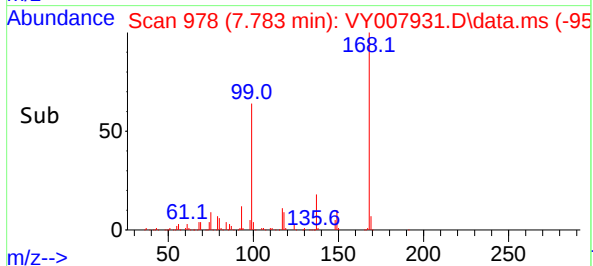
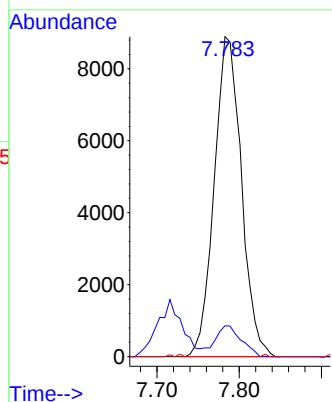
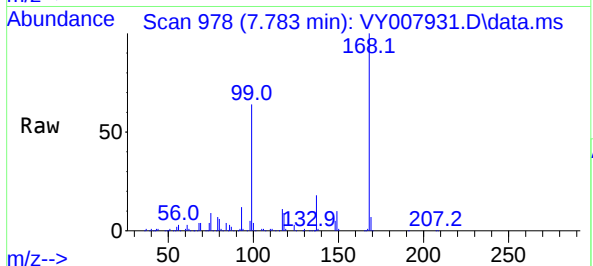




#36
1,1-Dichloropropene
Concen: 4.231 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

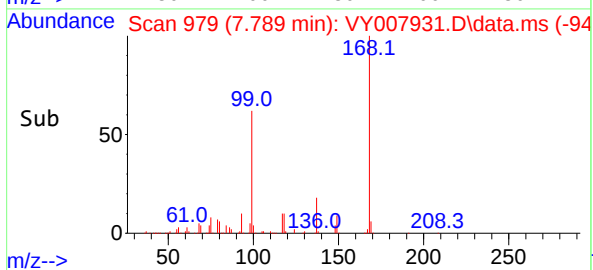
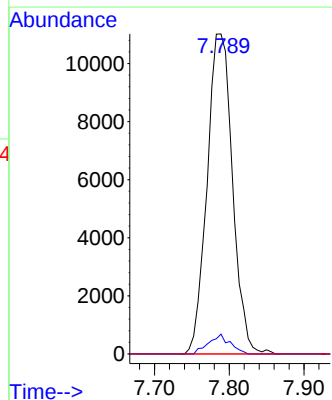
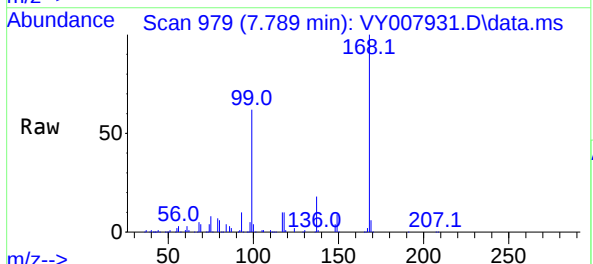
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

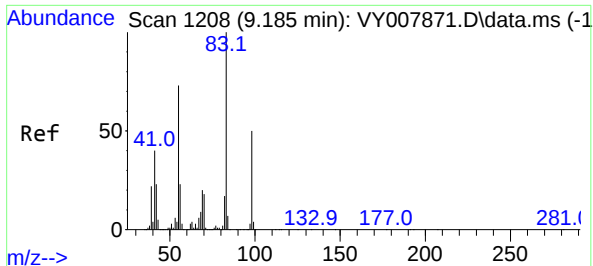
Tgt Ion: 75 Resp: 20379
Ion Ratio Lower Upper
75 100
110 9.4 17.1 51.2#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.063 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.110 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 117 Resp: 26061
Ion Ratio Lower Upper
117 100
119 6.2 77.9 116.9#
121 0.0 24.8 37.2#





#39

Methylcyclohexane

Concen: Below Cal

RT: 9.185 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY007931.D

Acq: 19 Mar 2022 04:00

Instrument :

MSVOA_Y

ClientSampleId :

C-11-10-11

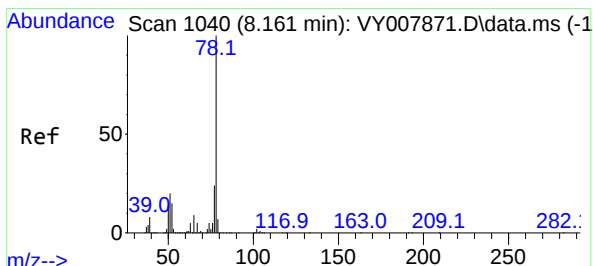
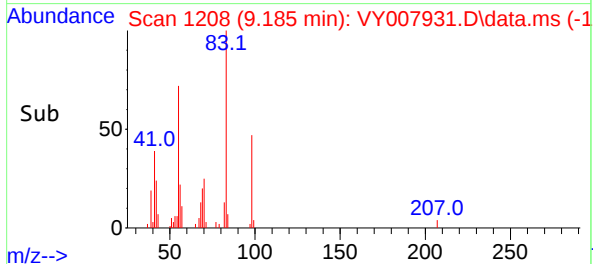
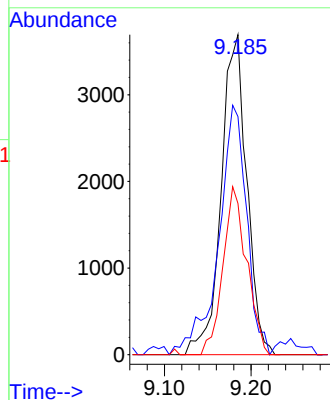
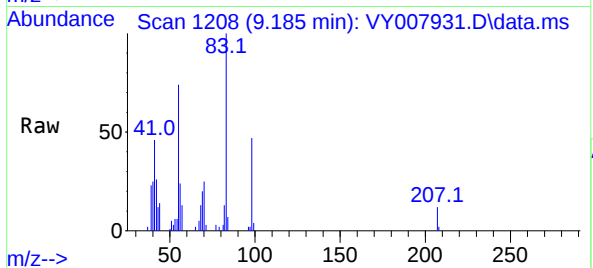
Tgt Ion: 83 Resp: 7590

Ion Ratio Lower Upper

83 100

55 72.1 66.5 99.7

98 47.3 37.9 56.9



#40

Benzene

Concen: 5.470 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY007931.D

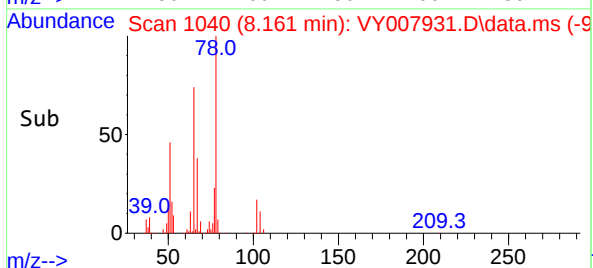
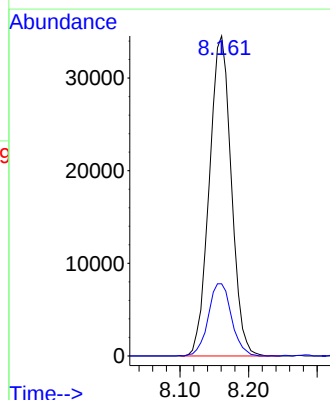
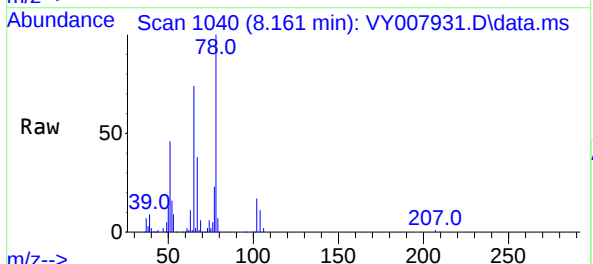
Acq: 19 Mar 2022 04:00

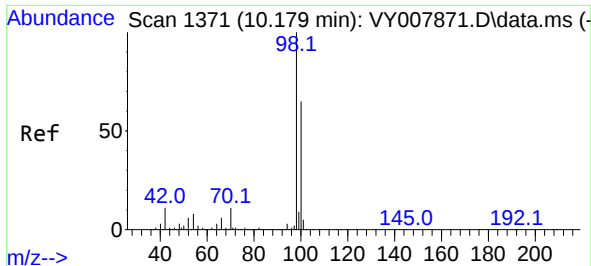
Tgt Ion: 78 Resp: 77001

Ion Ratio Lower Upper

78 100

77 22.6 20.4 30.6

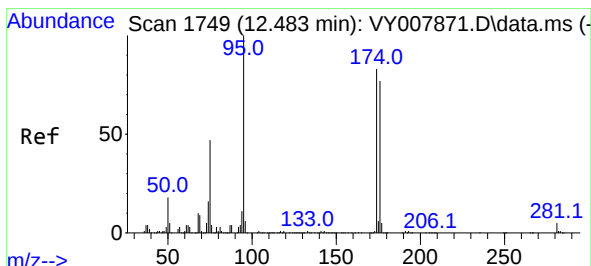
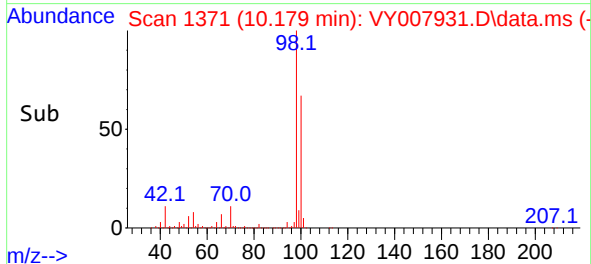
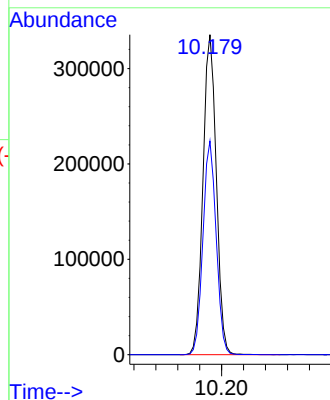
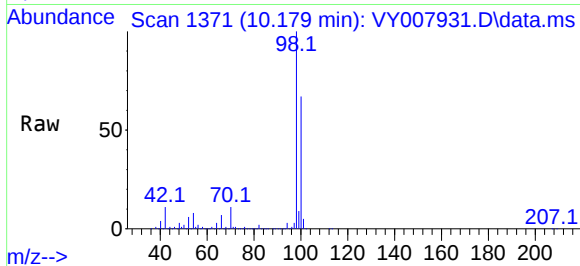




#50
Toluene-d8
Concen: 58.716 ug/l
RT: 10.179 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

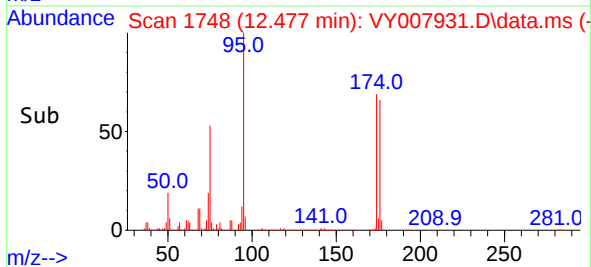
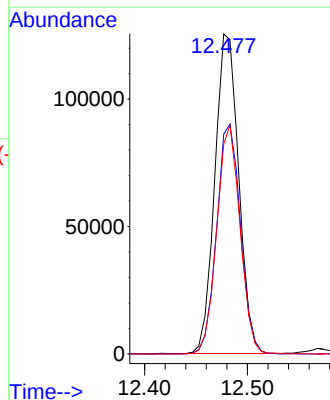
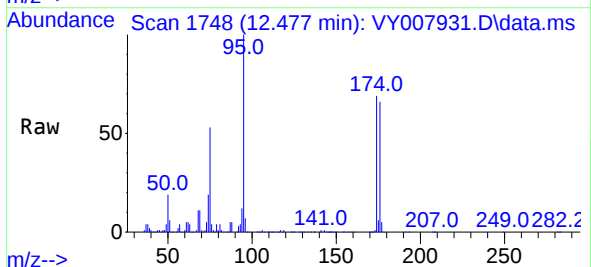
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

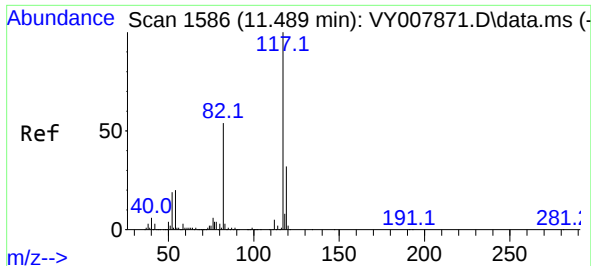
Tgt Ion: 98 Resp: 565781
Ion Ratio Lower Upper
98 100
100 66.2 50.2 75.2



#62
4-Bromofluorobenzene
Concen: 43.314 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 95 Resp: 201894
Ion Ratio Lower Upper
95 100
174 71.8 0.0 177.0
176 69.5 0.0 175.8

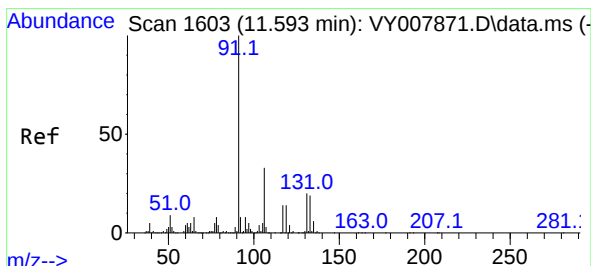
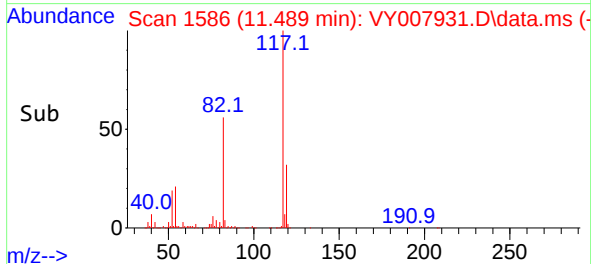
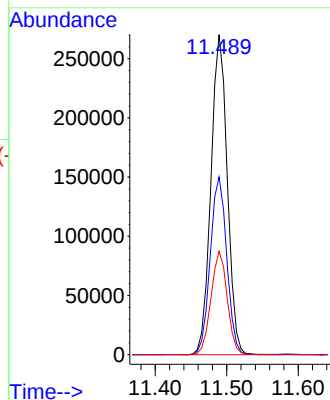
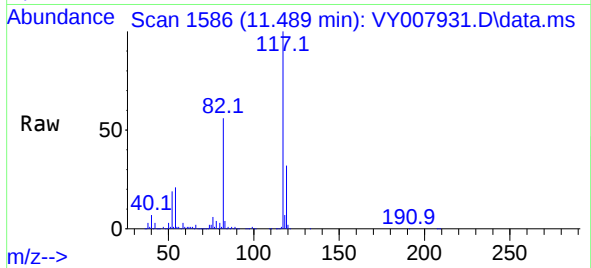




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

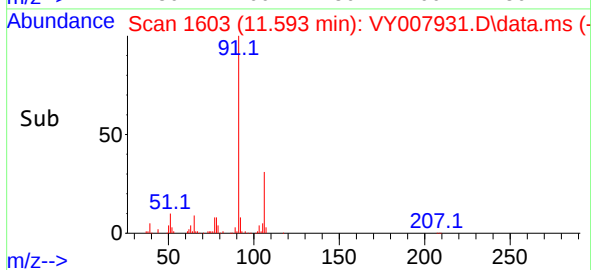
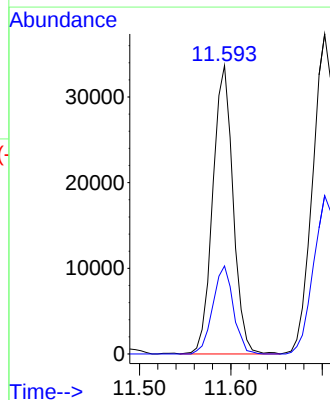
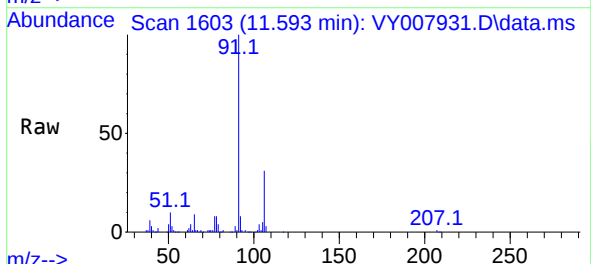
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

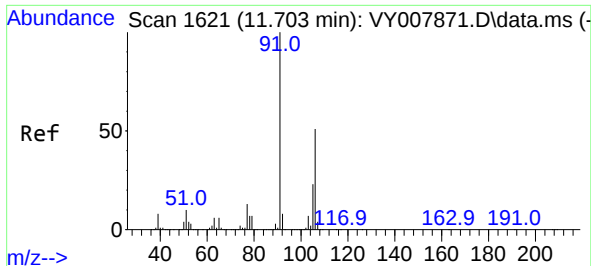
Tgt Ion:117 Resp: 428891
Ion Ratio Lower Upper
117 100
82 55.5 43.0 64.4
119 32.3 25.4 38.0



#67
Ethyl Benzene
Concen: 2.835 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 91 Resp: 51878
Ion Ratio Lower Upper
91 100
106 30.5 24.5 36.7

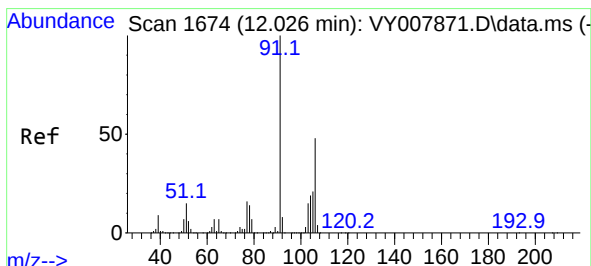
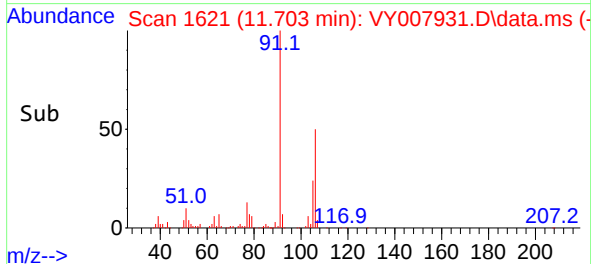
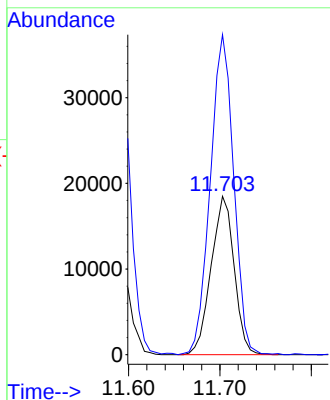
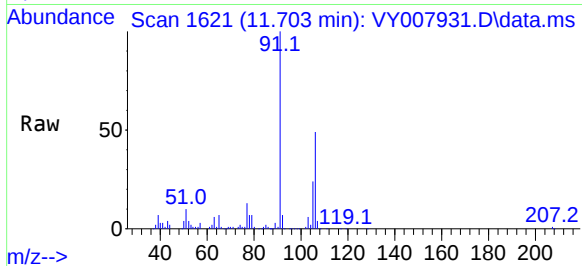




#68
m/p-Xylenes
Concen: 4.526 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

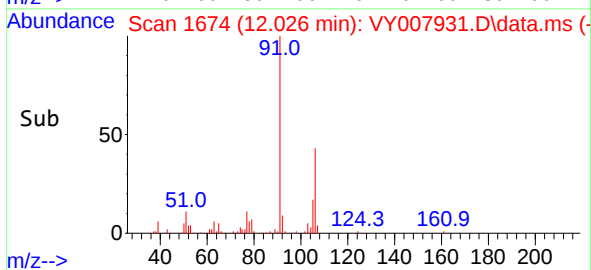
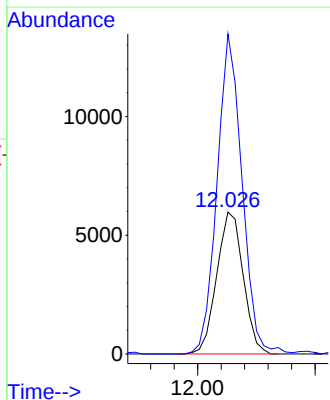
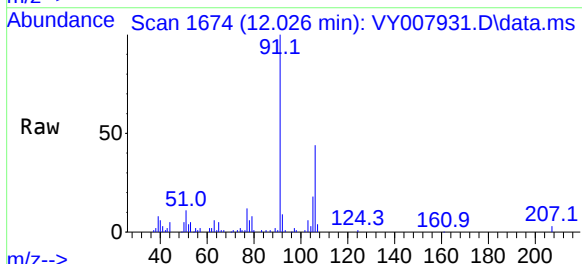
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

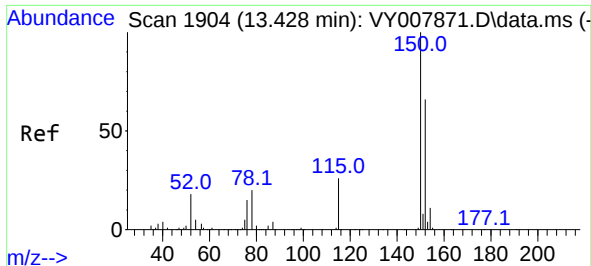
Tgt Ion:106 Resp: 32311
Ion Ratio Lower Upper
106 100
91 205.8 166.6 249.8



#69
o-Xylene
Concen: 1.352 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.006 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion:106 Resp: 9339
Ion Ratio Lower Upper
106 100
91 213.0 110.3 331.0

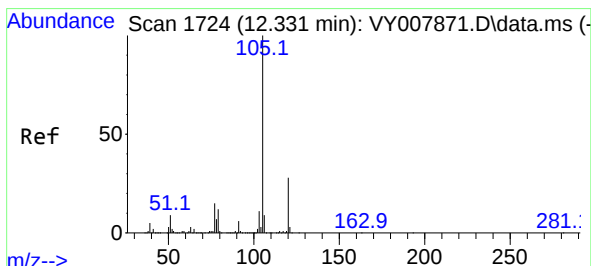
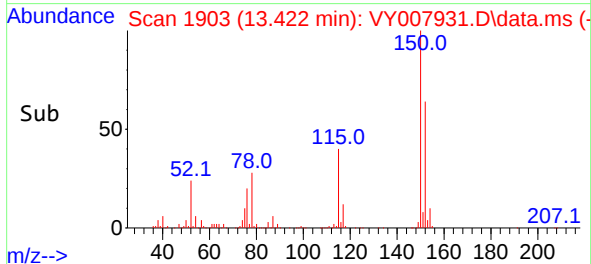
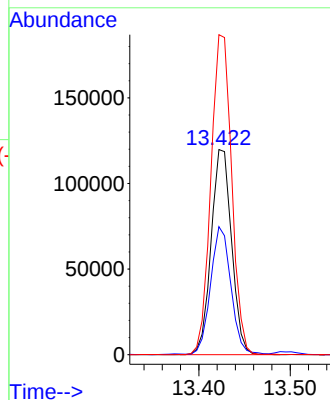
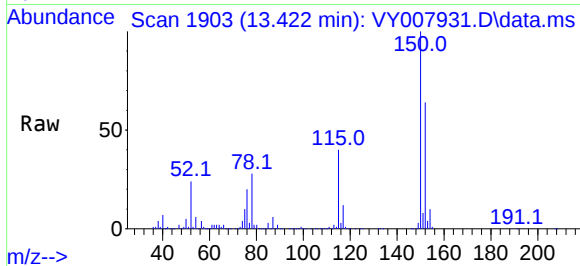




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1904
Delta R.T. -0.006 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

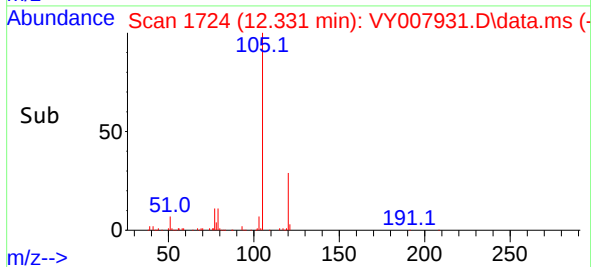
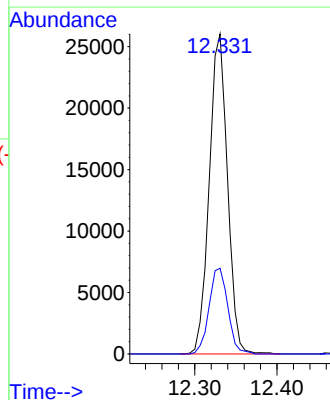
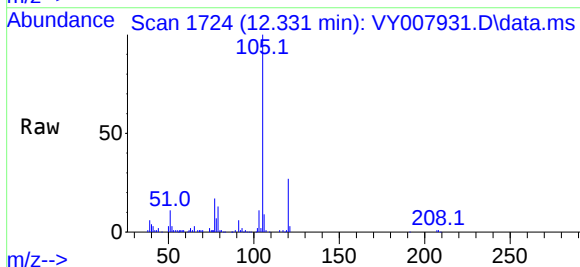
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

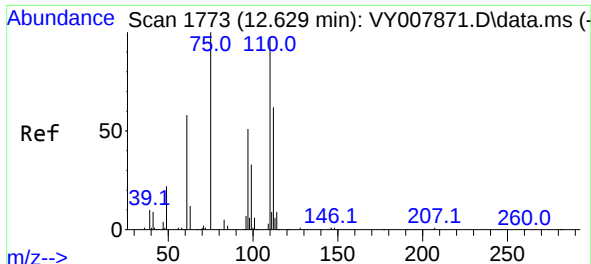
Tgt Ion:152 Resp: 186061
Ion Ratio Lower Upper
152 100
115 61.4 28.2 84.7
150 158.3 0.0 347.6



#73
Isopropylbenzene
Concen: 2.445 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion:105 Resp: 40048
Ion Ratio Lower Upper
105 100
120 27.5 13.4 40.2

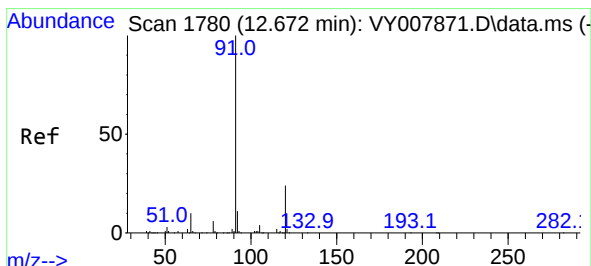
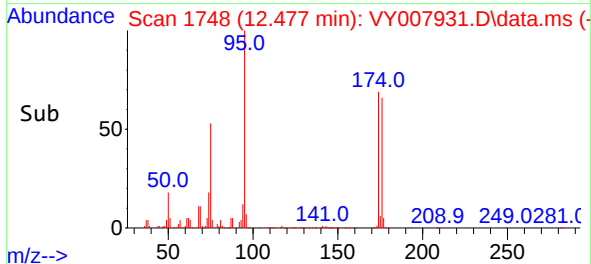
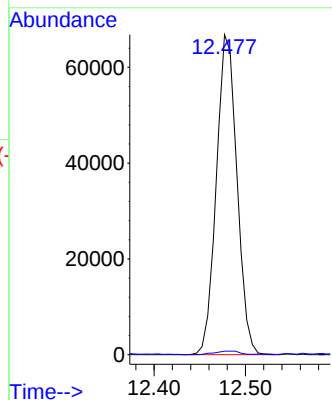
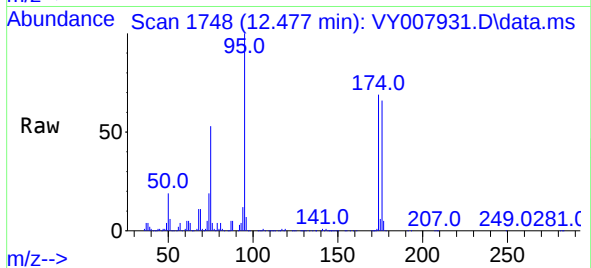




#76
1,2,3-Trichloropropane
Concen: 39.499 ug/l
RT: 12.477 min Scan# 1773
Delta R.T. -0.159 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

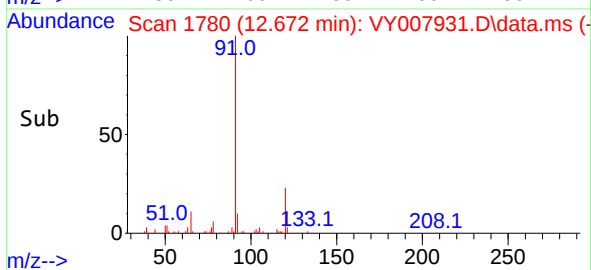
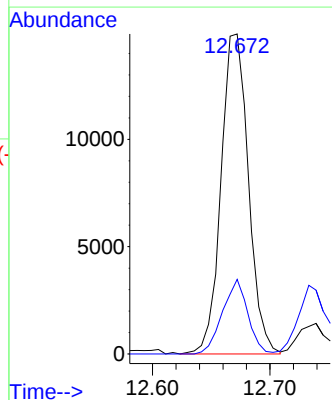
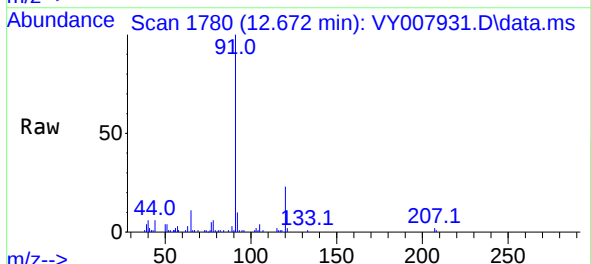
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

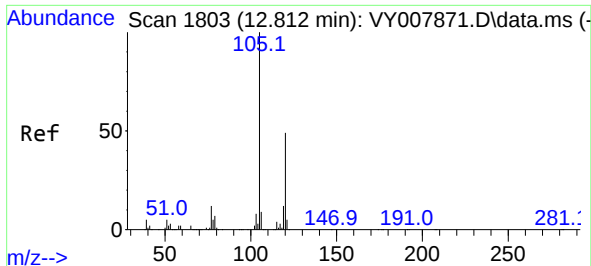
Tgt Ion: 75 Resp: 104750
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#78
n-propylbenzene
Concen: 1.223 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 91 Resp: 24179
Ion Ratio Lower Upper
91 100
120 21.6 11.3 33.9

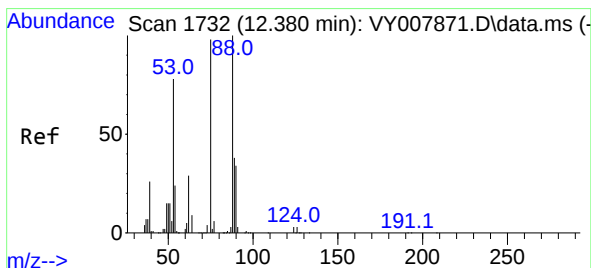
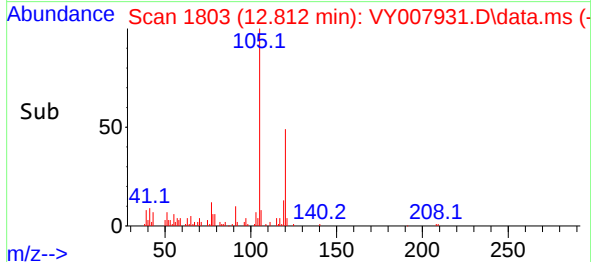
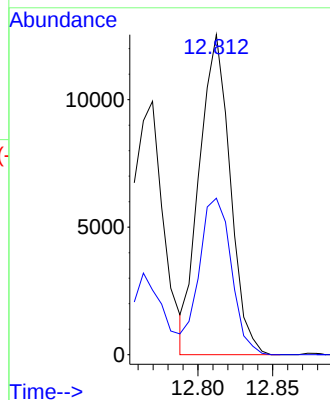
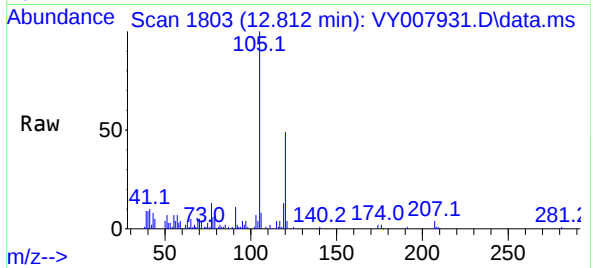




#80
1,3,5-Trimethylbenzene
Concen: 1.333 ug/l
RT: 12.812 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

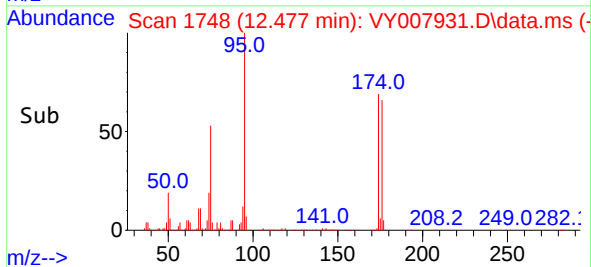
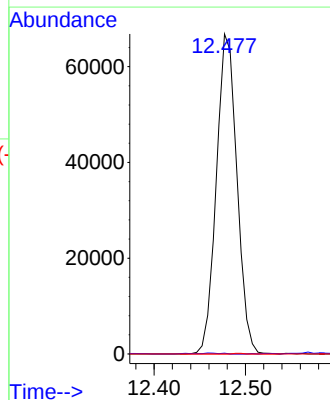
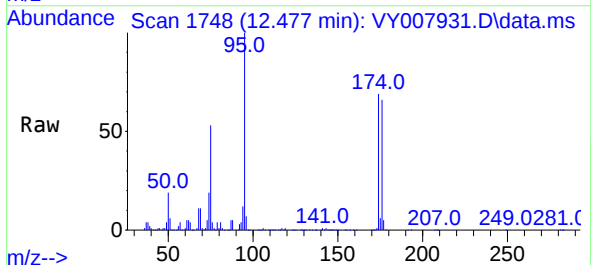
Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

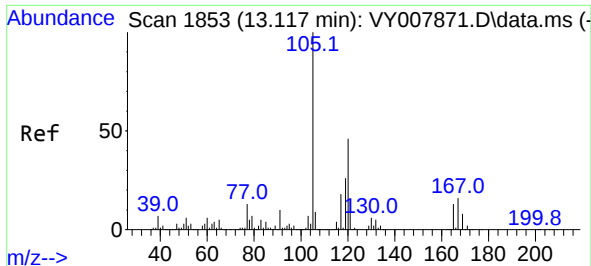
Tgt Ion:105 Resp: 17956
Ion Ratio Lower Upper
105 100
120 51.1 24.4 73.4



#81
trans-1,4-Dichloro-2-butene
Concen: 82.963 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.097 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion: 75 Resp: 104750
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 0.1 37.0 55.4#

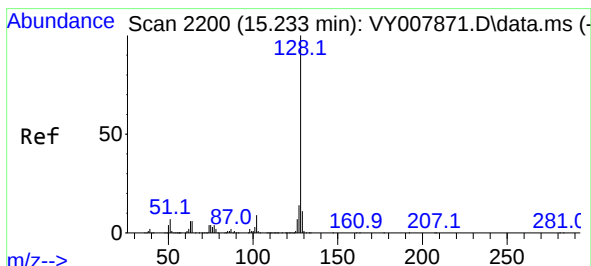
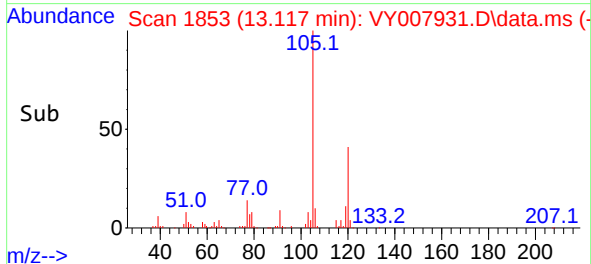
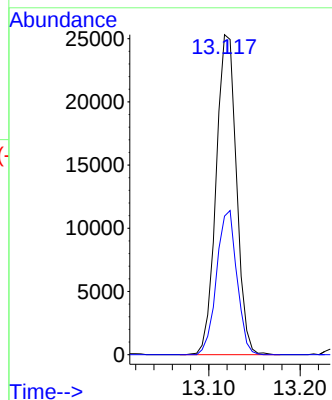
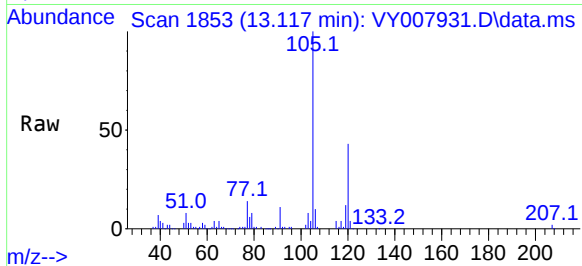




#84
1,2,4-Trimethylbenzene
Concen: 2.967 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.006 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Instrument :
MSVOA_Y
ClientSampleId :
C-11-10-11

Tgt Ion:105 Resp: 39175
Ion Ratio Lower Upper
105 100
120 45.0 22.3 66.9



#95
Naphthalene
Concen: 174.164 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.006 min
Lab File: VY007931.D
Acq: 19 Mar 2022 04:00

Tgt Ion:128 Resp: 1614936
Ion Ratio Lower Upper
128 100
127 13.0 11.0 16.4
129 10.9 8.4 12.6

