

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090721\
 Data File : VY005952.D
 Acq On : 07 Sep 2021 18:21
 Operator : SY/MD
 Sample : M3667-01
 Misc : 5.00G/5ML/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 08 02:14:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y083121S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 01 05:32:43 2021
 Response via : Initial Calibration

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

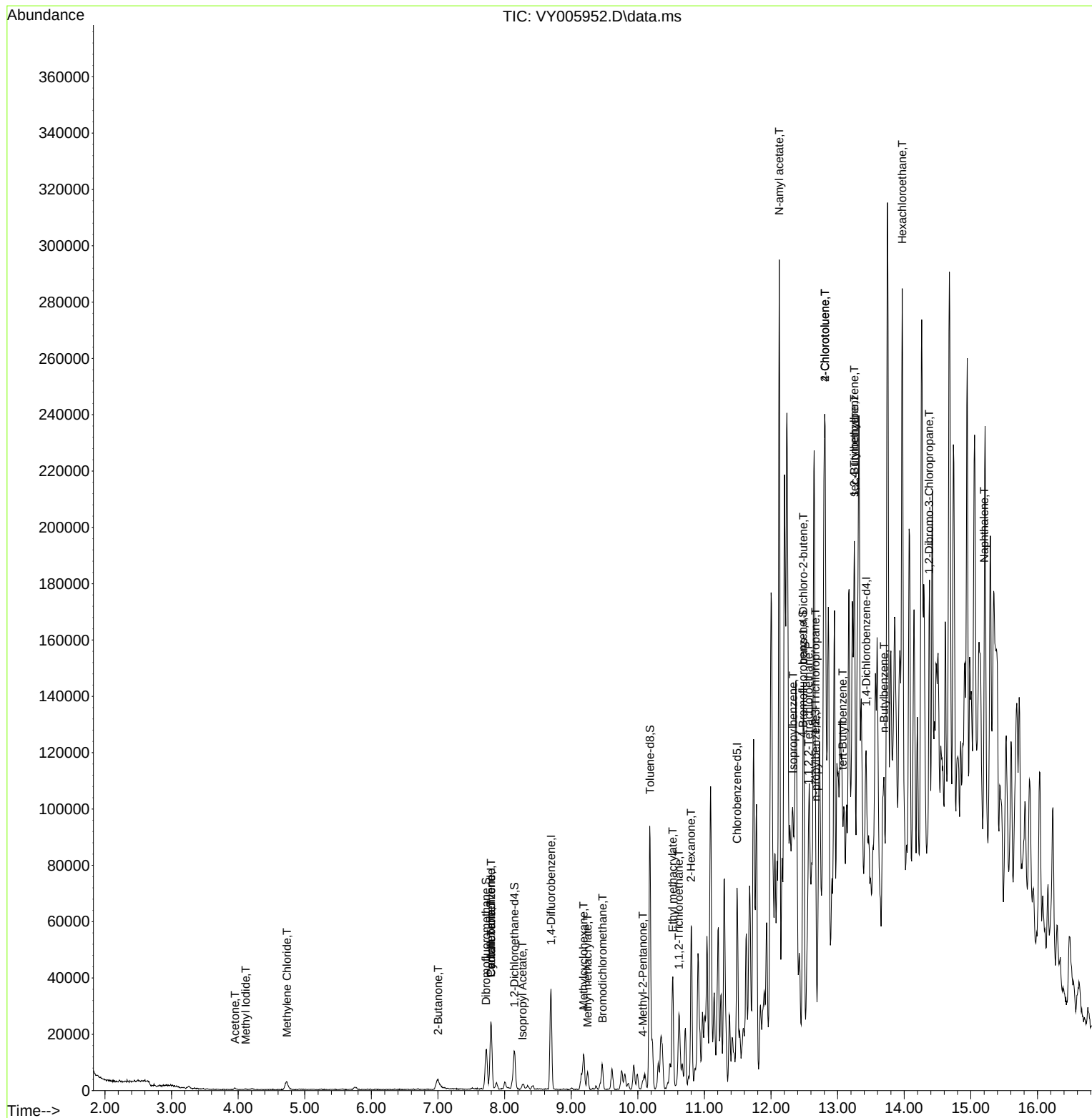
Internal Standards						
1) Pentafluorobenzene	7.795	168	20606	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	30897	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	32518	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	16650	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.148	65	10702	51.538	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.080%	
35) Dibromofluoromethane	7.722	113	10036	57.839	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 115.680%	
50) Toluene-d8	10.185	98	41418	56.875	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 113.760%	
62) 4-Bromofluorobenzene	12.477	95	18318	74.913	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 149.820%#	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.112	142	240	1.096	ug/l #	48
16) Acetone	3.954	43	882	16.658	ug/l #	78
20) Methylene Chloride	4.734	84	2246	6.712	ug/l	84
25) 2-Butanone	7.002	43	99	1.324	ug/l #	47
31) Cyclohexane	7.795	56	407	1.162	ug/l #	26
38) Carbon Tetrachloride	7.795	117	1819	5.769	ug/l #	12
39) Methylcyclohexane	9.185	83	4681	12.704	ug/l	92
43) Isopropyl Acetate	8.270	43	699	2.209	ug/l #	52
47) Bromodichloromethane	9.471	83	285	1.011	ug/l #	25
48) Methyl methacrylate	9.246	41	1227	8.437	ug/l #	42
51) 4-Methyl-2-Pentanone	10.075	43	453	2.657	ug/l #	62
55) 1,1,2-Trichloroethane	10.617	97	9216	55.444	ug/l #	23
56) Ethyl methacrylate	10.526	69	3989	16.579	ug/l #	17
59) 2-Hexanone	10.800	43	21152	177.579	ug/l #	29
73) Isopropylbenzene	12.331	105	12040	10.849	ug/l	98
74) N-amyl acetate	12.123	43	53261	167.279	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.562	83	4881	23.111	ug/l #	58
76) 1,2,3-Trichloropropane	12.666	75	243	1.559	ug/l #	100
78) n-propylbenzene	12.672	91	28164	21.235	ug/l	97
79) 2-Chlorotoluene	12.812	91	1482	2.007	ug/l #	27
81) trans-1,4-Dichloro-2-b...	12.483	75	7364	89.867	ug/l #	29
82) 4-Chlorotoluene	12.812	91	1482	1.913	ug/l #	29
83) tert-Butylbenzene	13.074	119	2305	2.836	ug/l	75
84) 1,2,4-Trimethylbenzene	13.251	105	49245	53.394	ug/l #	30
85) sec-Butylbenzene	13.251	105	49245	41.113	ug/l	90
89) n-Butylbenzene	13.696	91	18063	19.451	ug/l #	75
90) Hexachloroethane	13.970	117	7865	41.756	ug/l #	2
92) 1,2-Dibromo-3-Chloropr...	14.373	75	458	11.563	ug/l #	9
95) Naphthalene	15.202	128	2934	4.691	ug/l #	1

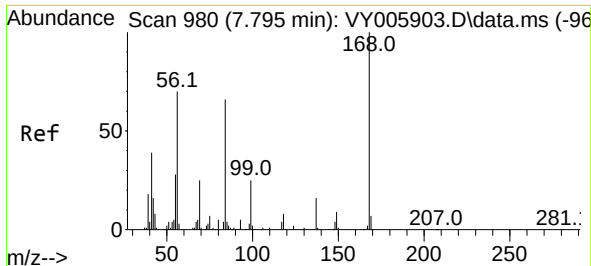
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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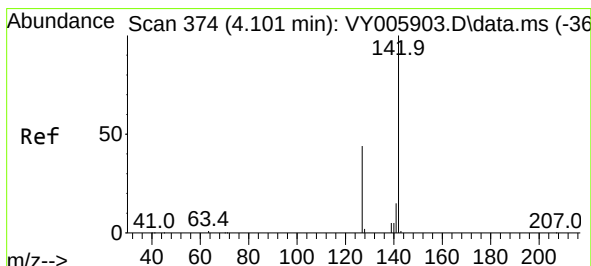
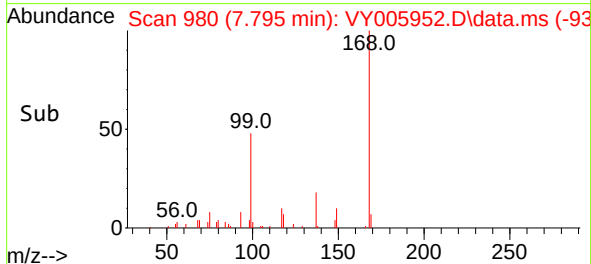
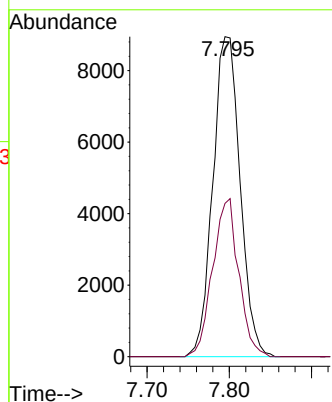
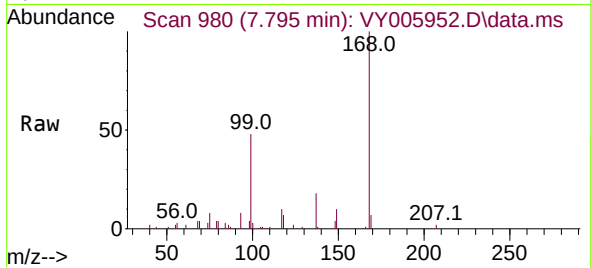




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

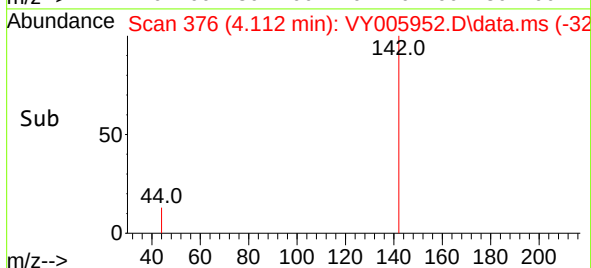
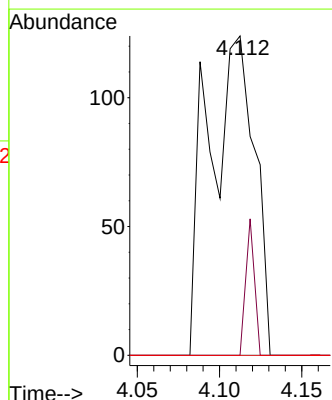
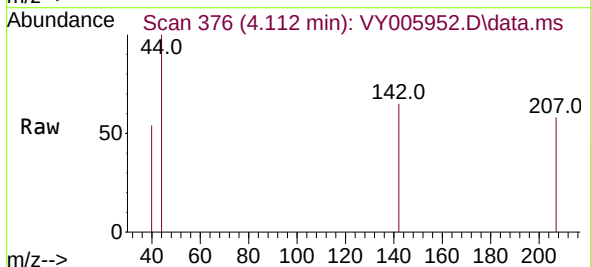
Instrument :
MSVOA_Y
ClientSampleId :

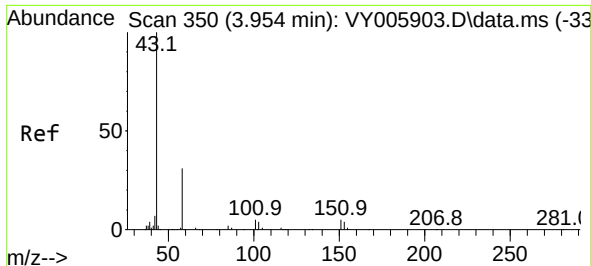
Tgt Ion:168 Resp: 20606
Ion Ratio Lower Upper
168 100
99 47.9 40.6 60.8



#10
Methyl Iodide
Concen: 1.096 ug/l
RT: 4.112 min Scan# 376
Delta R.T. 0.012 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion:142 Resp: 240
Ion Ratio Lower Upper
142 100
127 7.9 36.7 55.1#
141 0.0 11.8 17.8#

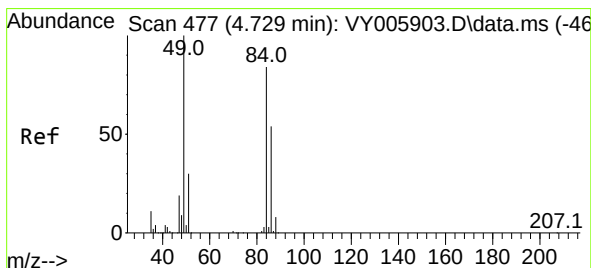
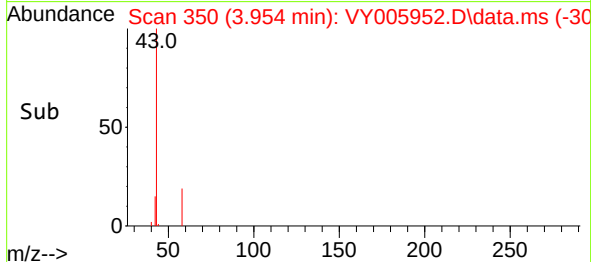
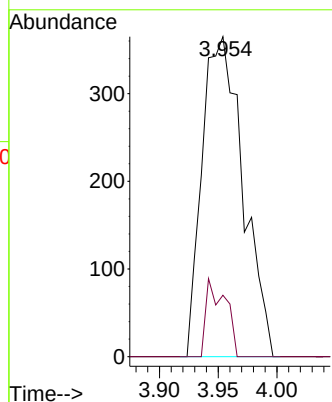
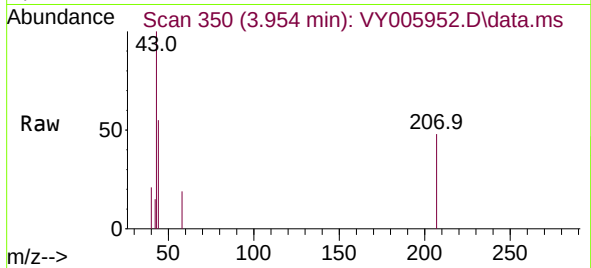




#16
Acetone
Concen: 16.658 ug/l
RT: 3.954 min Scan# 350
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

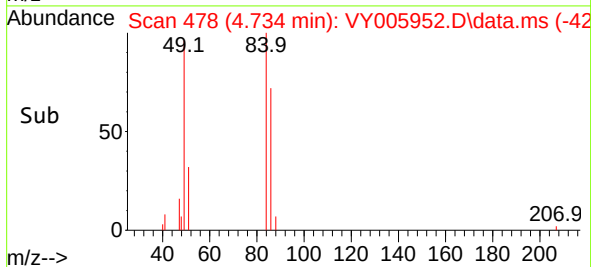
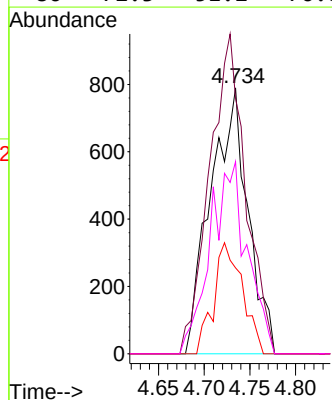
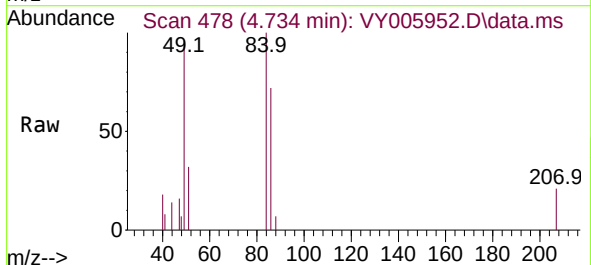
Instrument :
MSVOA_Y
ClientSampled :

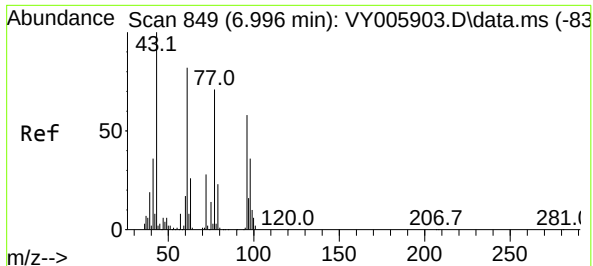
Tgt Ion: 43 Resp: 882
Ion Ratio Lower Upper
43 100
58 19.2 25.1 37.7#



#20
Methylene Chloride
Concen: 6.712 ug/l
RT: 4.734 min Scan# 478
Delta R.T. 0.005 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion: 84 Resp: 2246
Ion Ratio Lower Upper
84 100
49 95.9 95.7 143.5
51 32.3 29.0 43.6
86 72.3 51.2 76.8

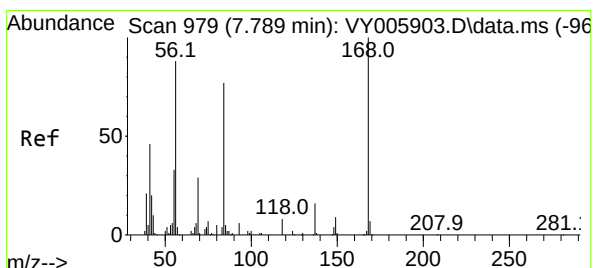
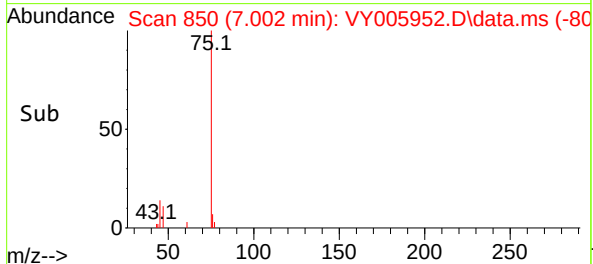
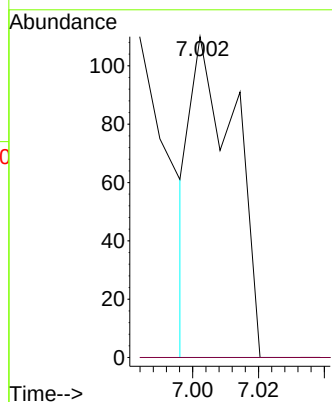
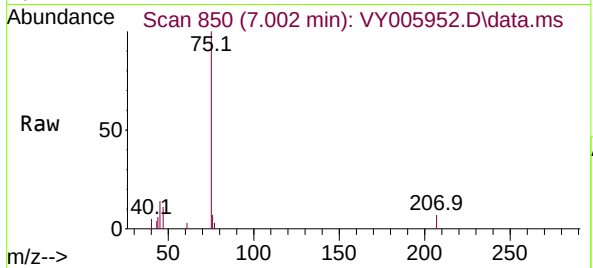




#25
2-Butanone
Concen: 1.324 ug/l
RT: 7.002 min Scan# 850
Delta R.T. 0.006 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

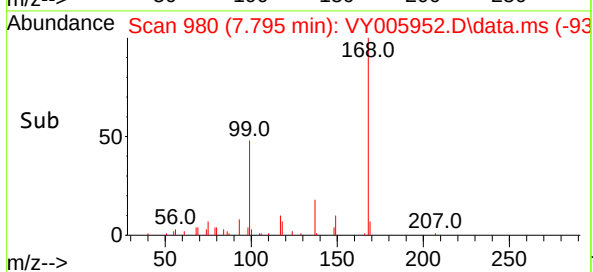
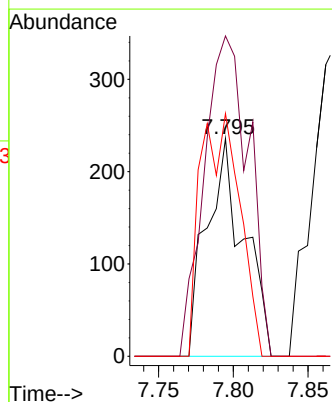
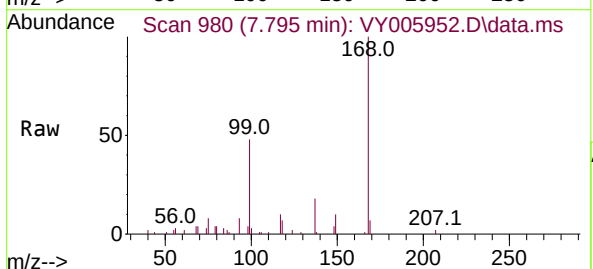
Instrument :
MSVOA_Y
ClientSampled :

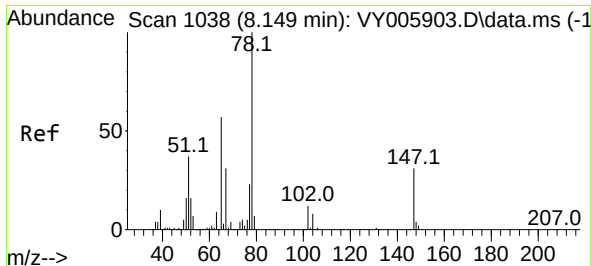
Tgt Ion: 43 Resp: 99
Ion Ratio Lower Upper
43 100
72 0.0 22.3 33.5#



#31
Cyclohexane
Concen: 1.162 ug/l
RT: 7.795 min Scan# 980
Delta R.T. 0.006 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion: 56 Resp: 407
Ion Ratio Lower Upper
56 100
69 147.0 26.3 39.5#
84 111.4 69.8 104.8#

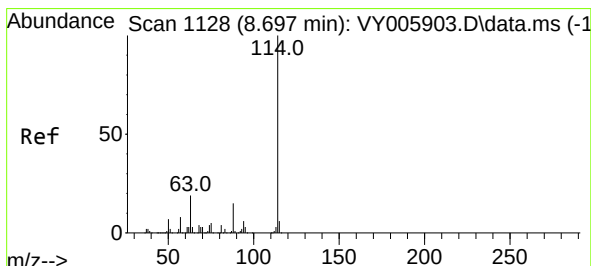
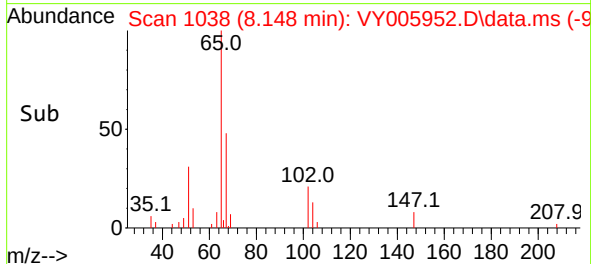
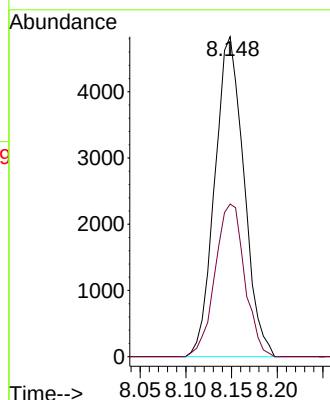
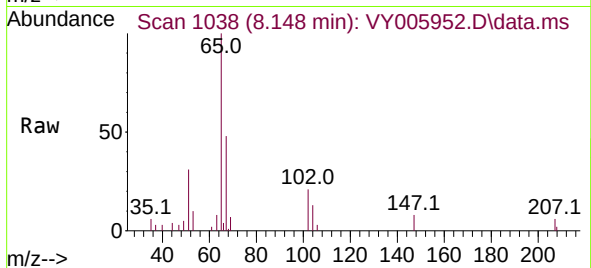




#33
1,2-Dichloroethane-d4
Concen: 51.538 ug/l
RT: 8.148 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

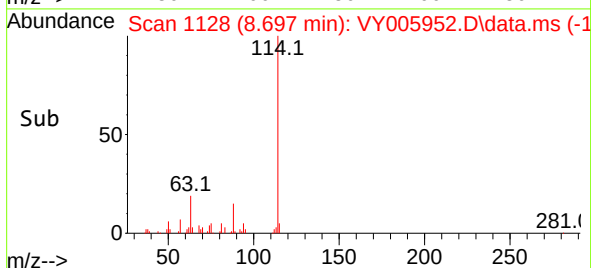
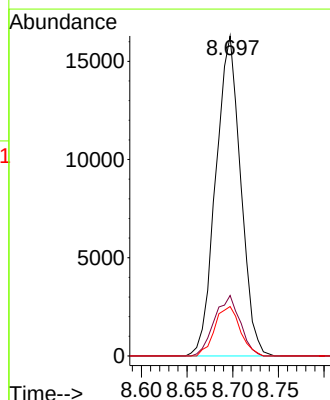
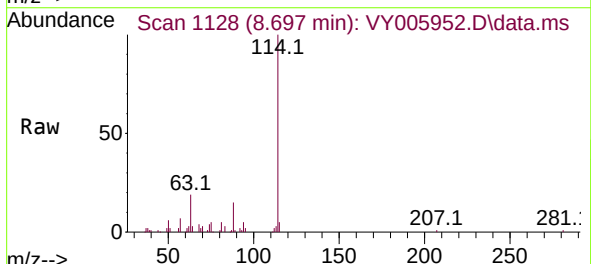
Instrument :
MSVOA_Y
ClientSampleId :

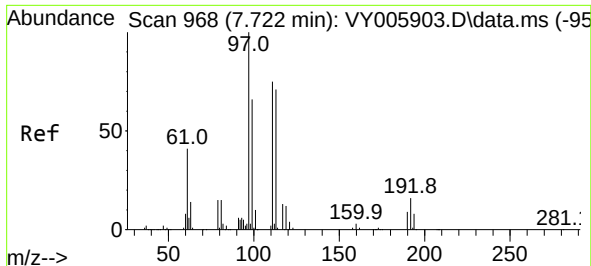
Tgt Ion: 65 Resp: 10702
Ion Ratio Lower Upper
65 100
67 48.6 0.0 105.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.697 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion:114 Resp: 30897
Ion Ratio Lower Upper
114 100
63 18.9 0.0 38.4
88 15.5 0.0 30.0

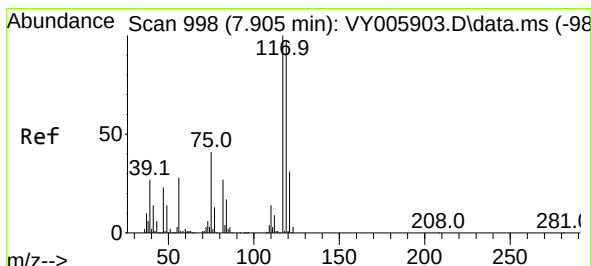
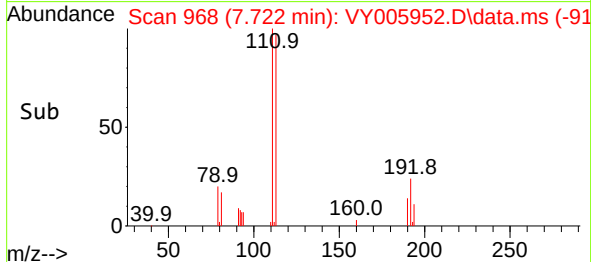
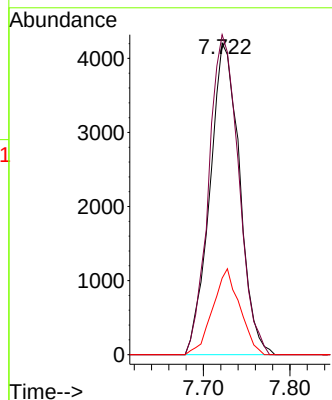
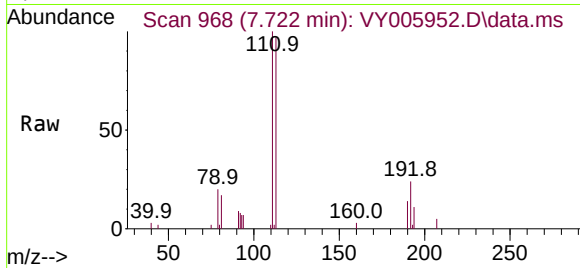




#35
Dibromofluoromethane
Concen: 57.839 ug/l
RT: 7.722 min Scan# 968
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

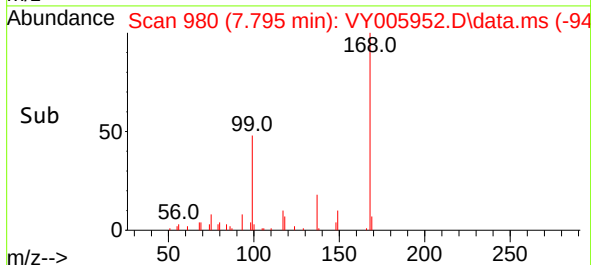
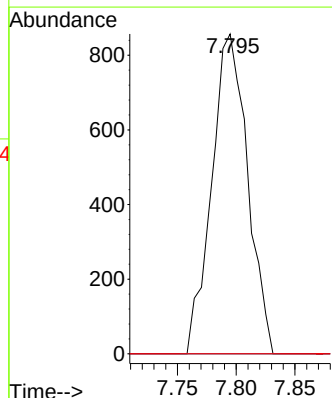
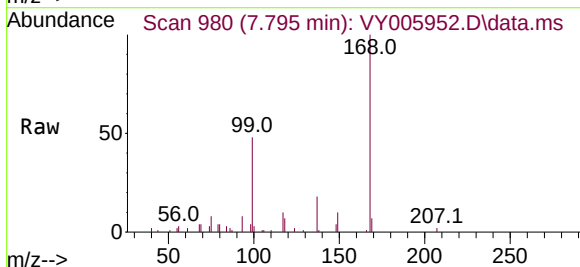
Instrument :
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ClientSampleId :

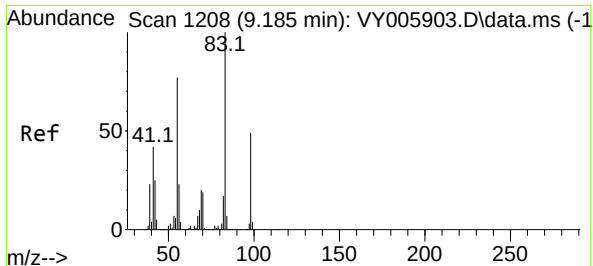
Tgt Ion:	113	Resp:	10036
Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.9	122.9
192	25.1	19.4	29.0



#38
Carbon Tetrachloride
Concen: 5.769 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.110 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion:	117	Resp:	1819
Ion	Ratio	Lower	Upper
117	100		
119	0.0	77.5	116.3#
121	0.0	25.0	37.6#

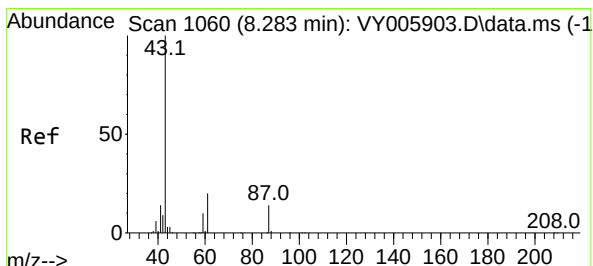
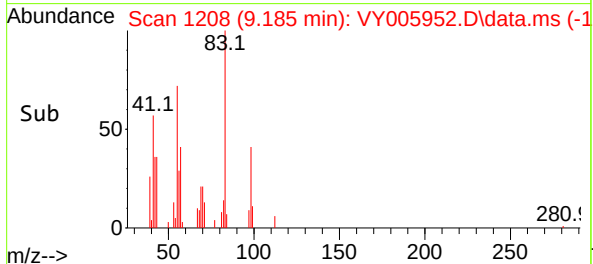
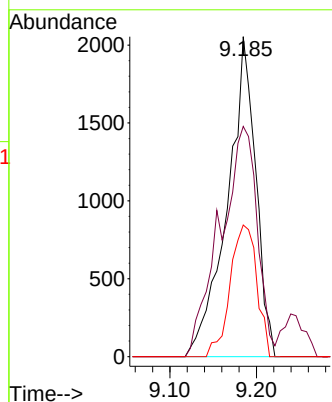
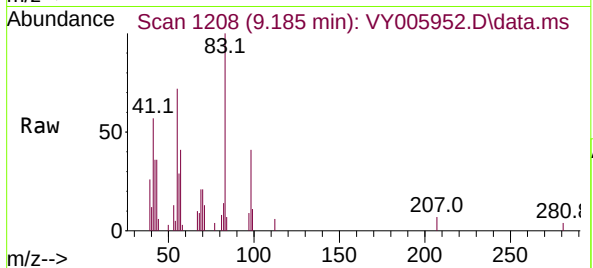




#39
Methylcyclohexane
Concen: 12.704 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

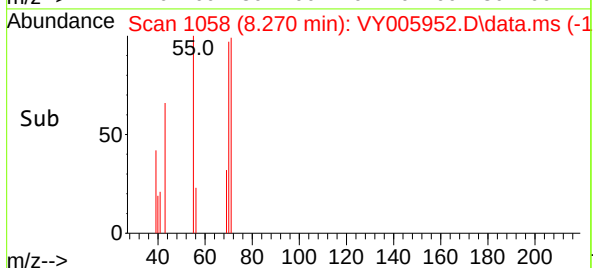
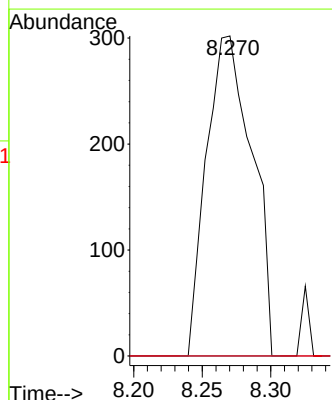
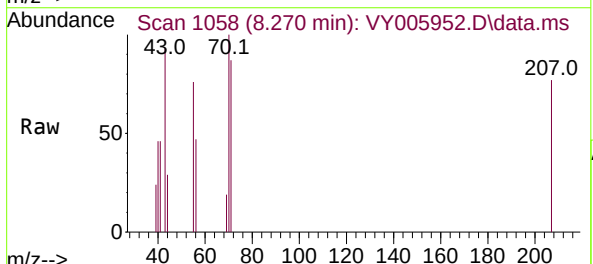
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ClientSampleId :

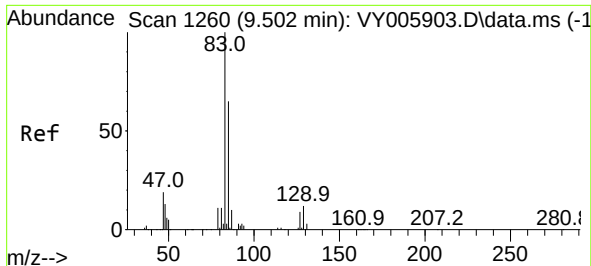
Tgt Ion:	83	Resp:	4681
Ion	Ratio	Lower	Upper
83	100		
55	72.0	61.4	92.2
98	41.1	39.4	59.2



#43
Isopropyl Acetate
Concen: 2.209 ug/l
RT: 8.270 min Scan# 1058
Delta R.T. -0.013 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion:	43	Resp:	699
Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.0	34.6#
87	0.0	11.0	16.6#





#47

Bromodichloromethane

Concen: 1.011 ug/l

RT: 9.471 min Scan# 1255

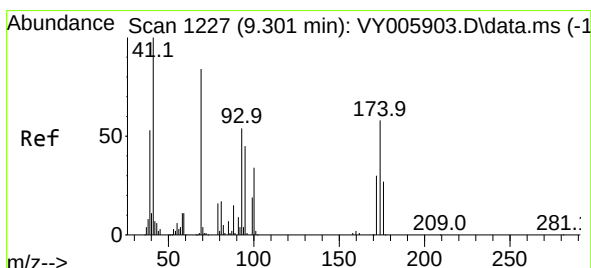
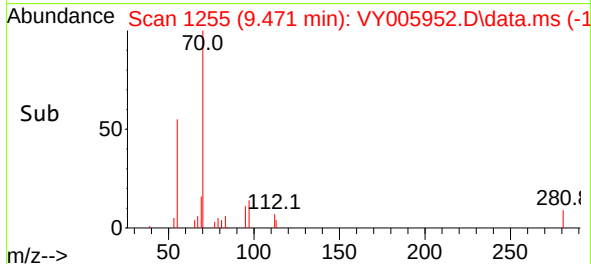
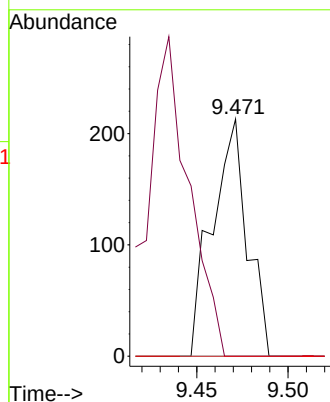
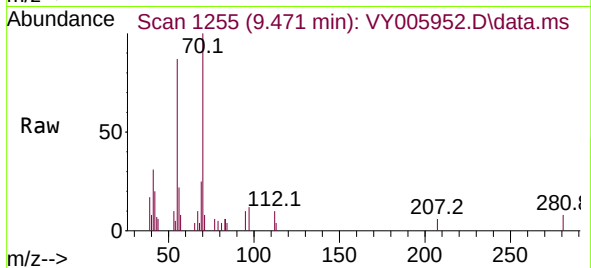
Delta R.T. -0.031 min

Lab File: VY005952.D

Acq: 07 Sep 2021 18:21

Tgt Ion: 83	Resp: 285
Ion Ratio	Lower Upper
83	100
85	0.0 51.8 77.8#
127	0.0 7.3 10.9#

Instrument :
MSVOA_Y
ClientSampleId :



#48

Methyl methacrylate

Concen: 8.437 ug/l

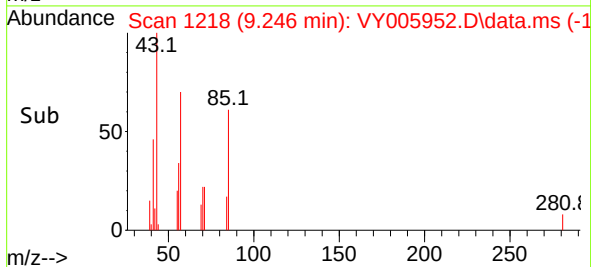
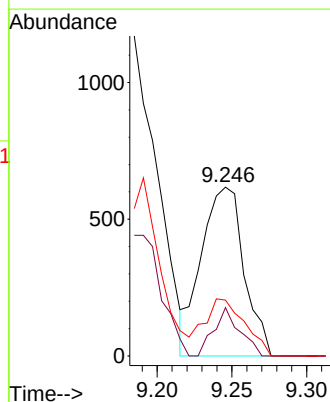
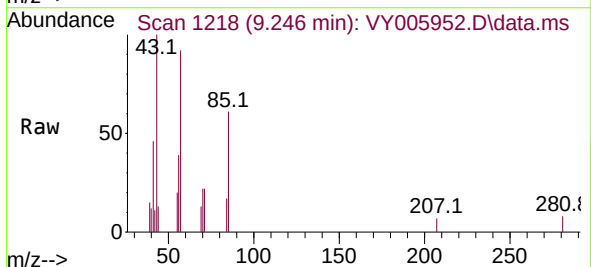
RT: 9.246 min Scan# 1218

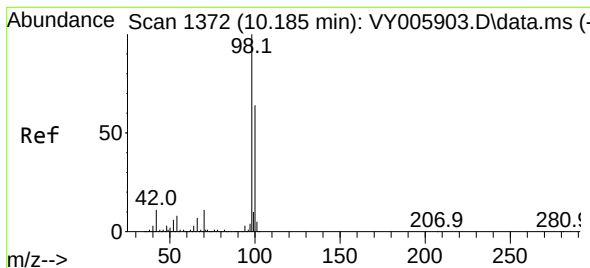
Delta R.T. -0.055 min

Lab File: VY005952.D

Acq: 07 Sep 2021 18:21

Tgt Ion: 41	Resp: 1227
Ion Ratio	Lower Upper
41	100
69	17.4 69.3 103.9#
39	31.9 44.2 66.4#

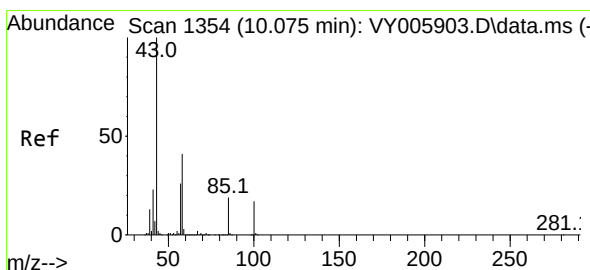
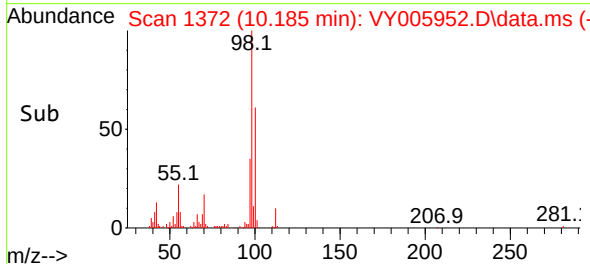
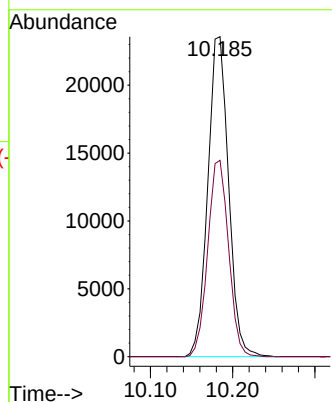
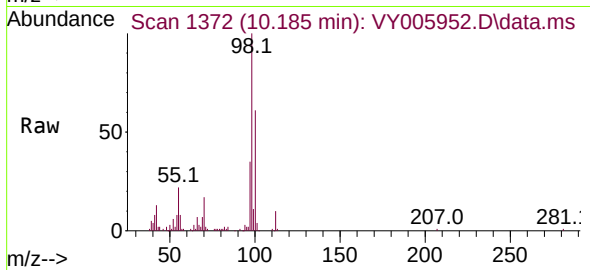




#50
Toluene-d8
Concen: 56.875 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

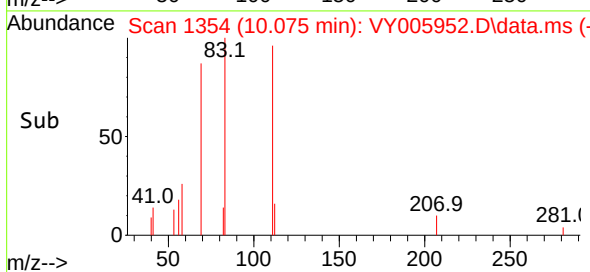
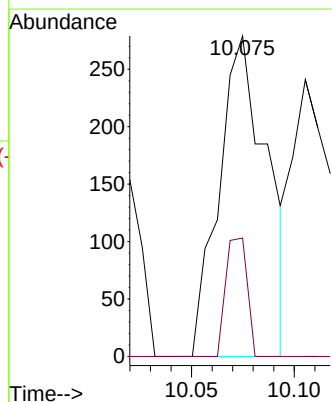
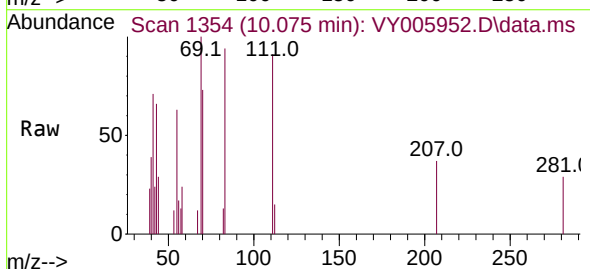
Instrument :
MSVOA_Y
ClientSampled :

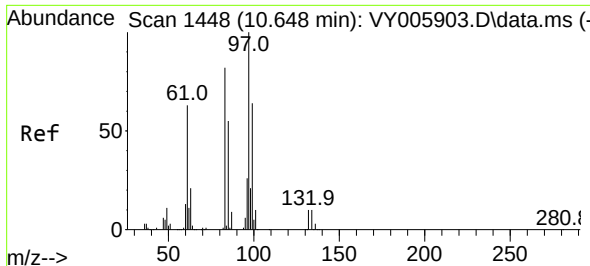
Tgt Ion: 98 Resp: 41418
Ion Ratio Lower Upper
98 100
100 61.5 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 2.657 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion: 43 Resp: 453
Ion Ratio Lower Upper
43 100
58 16.6 31.8 47.8#

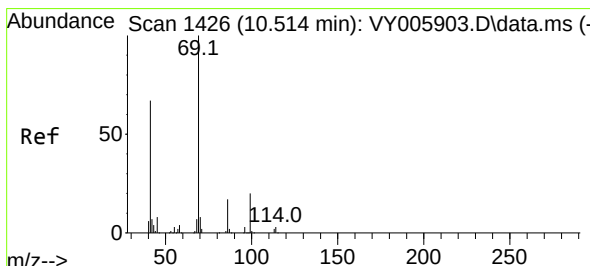
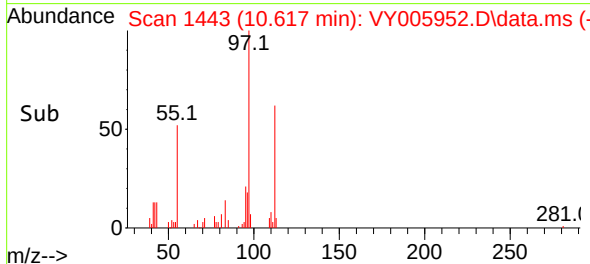
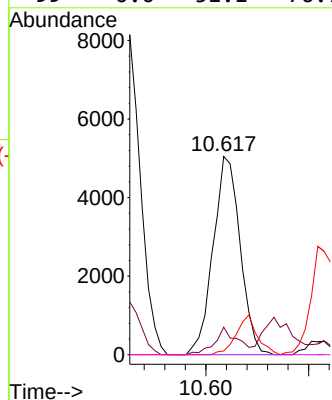
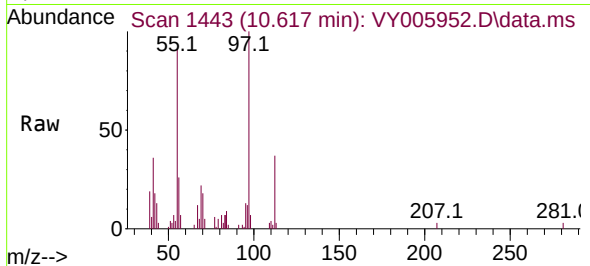




#55
1,1,2-Trichloroethane
Concen: 55.444 ug/l
RT: 10.617 min Scan# 1443
Delta R.T. -0.031 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

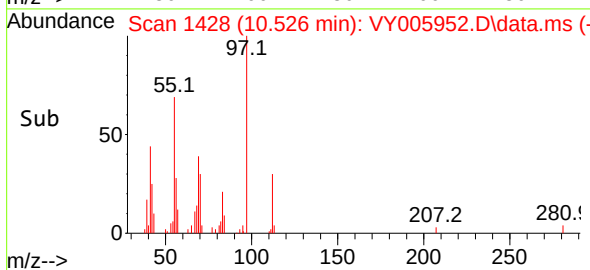
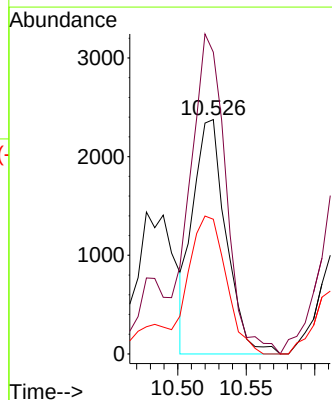
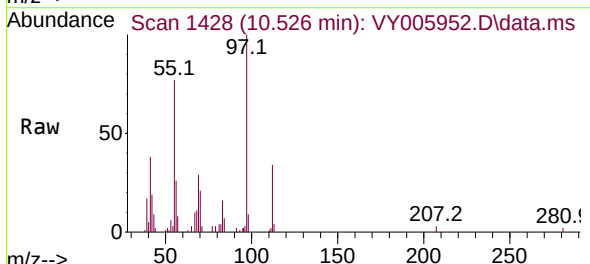
Instrument :
MSVOA_Y
ClientSampleId :

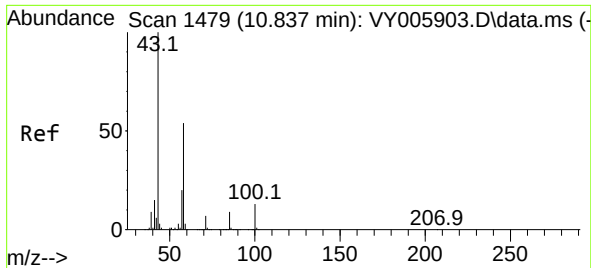
Tgt Ion: 97	Resp: 9216
Ion Ratio	Lower Upper
97 100	
83 13.9	65.9 98.9#
85 1.9	44.2 66.4#
99 0.0	51.1 76.7#



#56
Ethyl methacrylate
Concen: 16.579 ug/l
RT: 10.526 min Scan# 1428
Delta R.T. 0.012 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion: 69	Resp: 3989
Ion Ratio	Lower Upper
69 100	
41 144.9	53.4 80.0#
39 66.3	28.0 42.0#

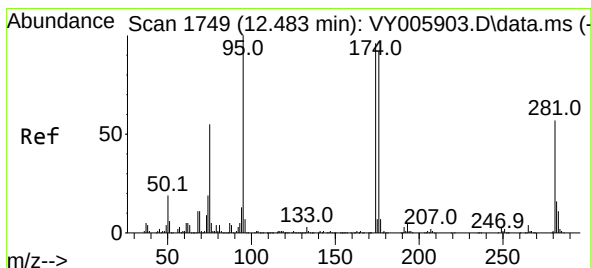
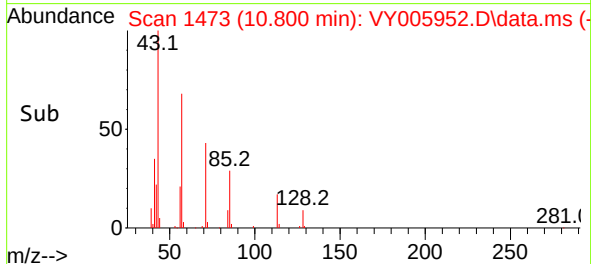
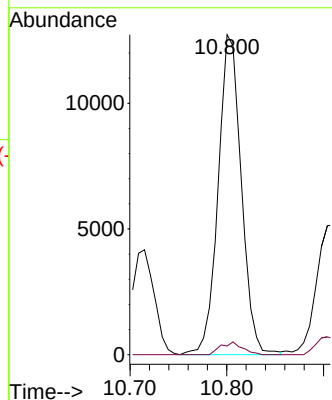
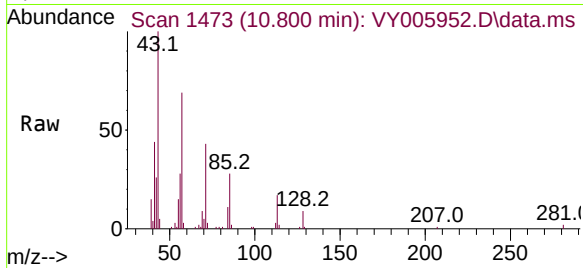




#59
2-Hexanone
Concen: 177.579 ug/l
RT: 10.800 min Scan# 1473
Delta R.T. -0.037 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

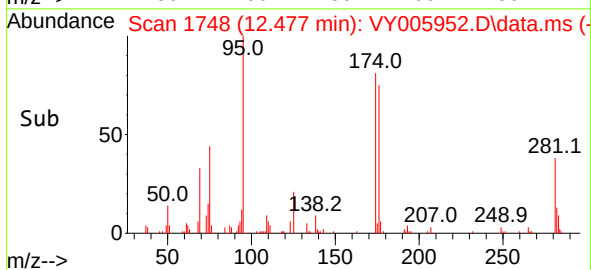
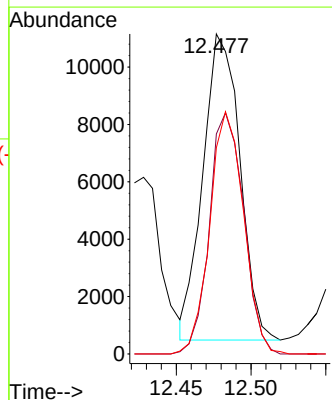
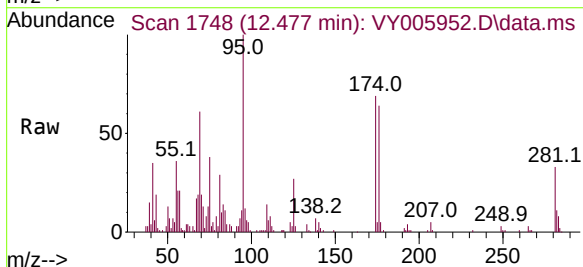
Instrument :
MSVOA_Y
ClientSampled :

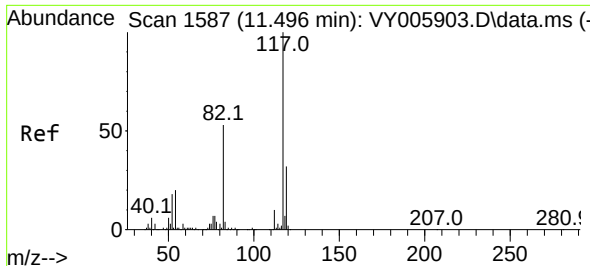
Tgt Ion: 43 Resp: 21152
Ion Ratio Lower Upper
43 100
58 3.7 27.3 81.9#



#62
4-Bromofluorobenzene
Concen: 74.913 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion: 95 Resp: 18318
Ion Ratio Lower Upper
95 100
174 73.1 0.0 192.4
176 72.4 0.0 186.8

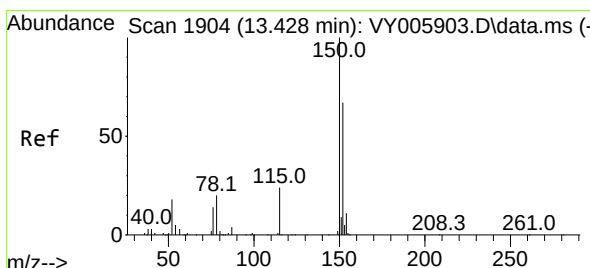
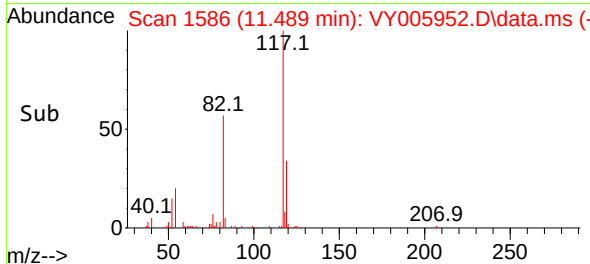
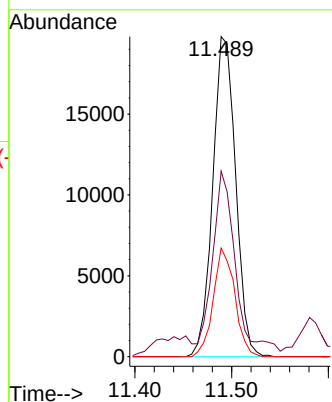
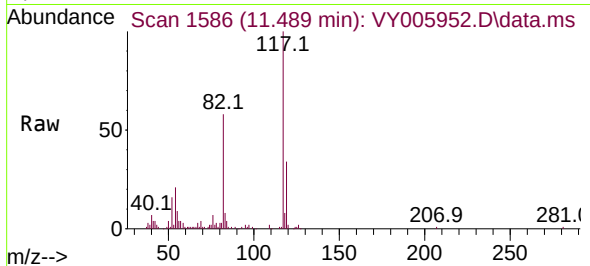




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.006 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

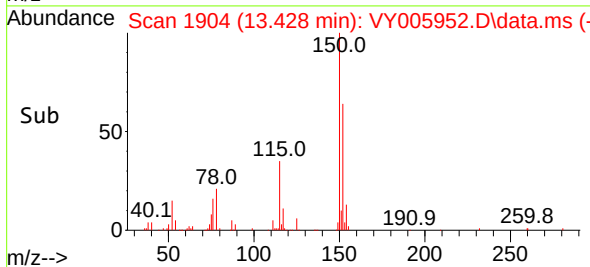
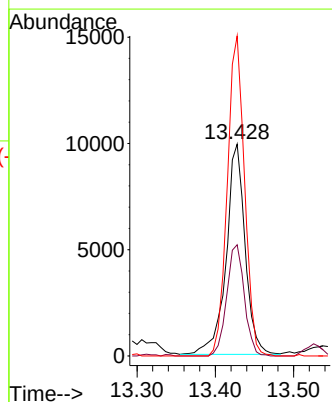
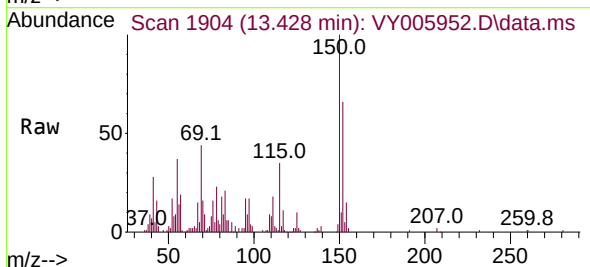
Instrument :
MSVOA_Y
ClientSampleId :

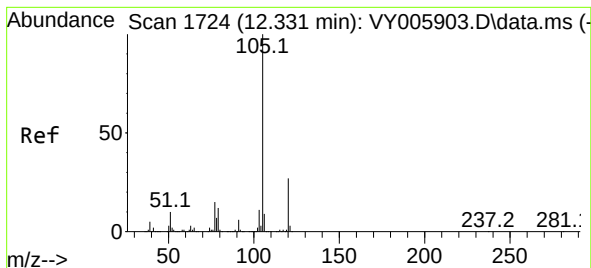
Tgt Ion:117 Resp: 32518
Ion Ratio Lower Upper
117 100
82 56.3 42.4 63.6
119 34.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion:152 Resp: 16650
Ion Ratio Lower Upper
152 100
115 49.1 26.8 80.4
150 138.2 0.0 345.6

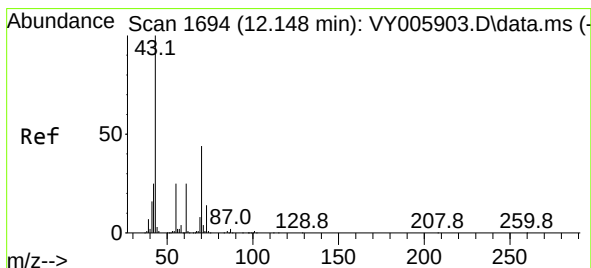
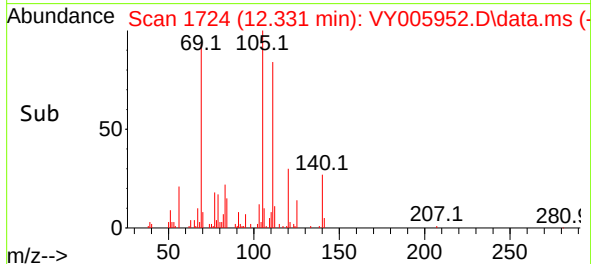
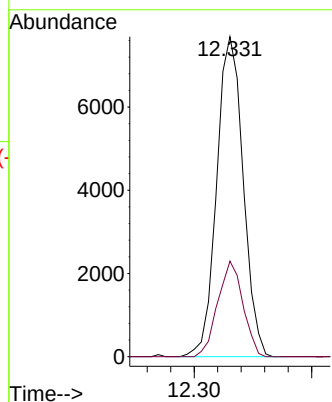
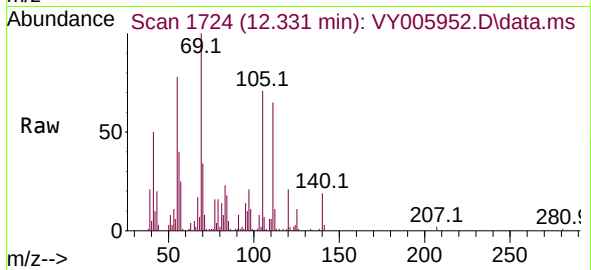




#73
Isopropylbenzene
Concen: 10.849 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

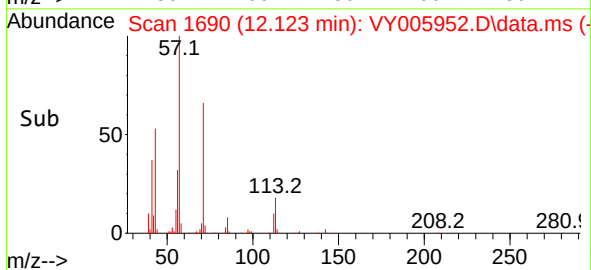
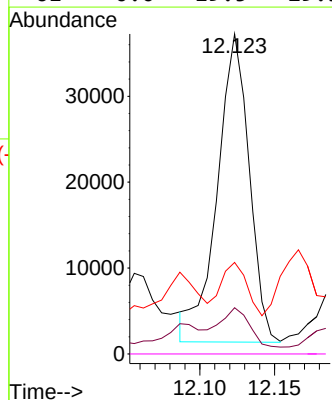
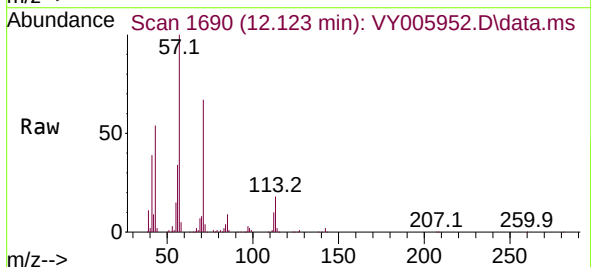
Instrument :
MSVOA_Y
ClientSampleId :

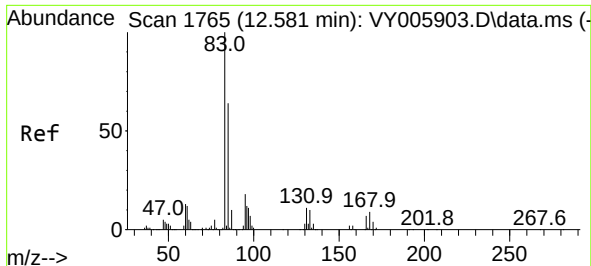
Tgt Ion:105 Resp: 12040
Ion Ratio Lower Upper
105 100
120 28.4 13.7 41.0



#74
N-ethyl acetate
Concen: 167.279 ug/l
RT: 12.123 min Scan# 1690
Delta R.T. -0.025 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion: 43 Resp: 53261
Ion Ratio Lower Upper
43 100
70 11.5 34.2 51.4#
55 24.9 19.4 29.2
61 0.0 19.5 29.3#

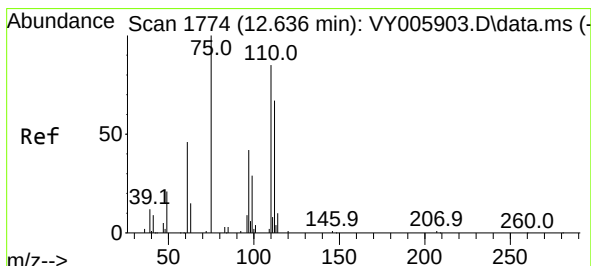
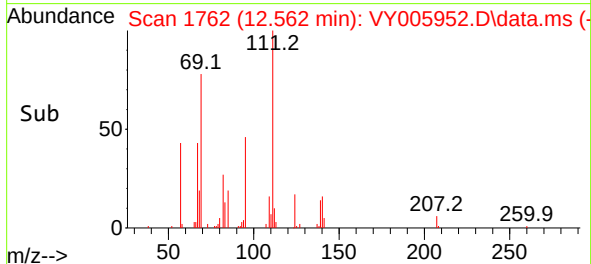
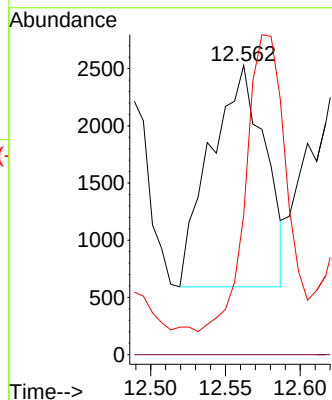
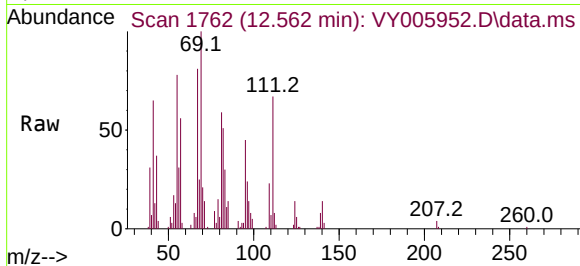




#75
 1,1,2,2-Tetrachloroethane
 Concen: 23.111 ug/l
 RT: 12.562 min Scan# 1762
 Delta R.T. -0.019 min
 Lab File: VY005952.D
 Acq: 07 Sep 2021 18:21

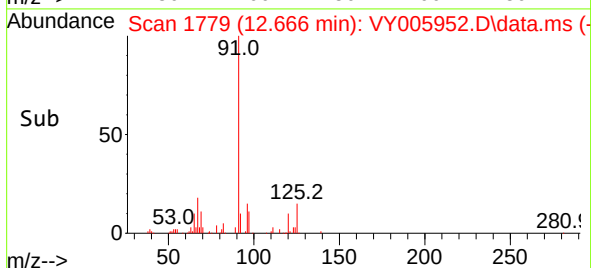
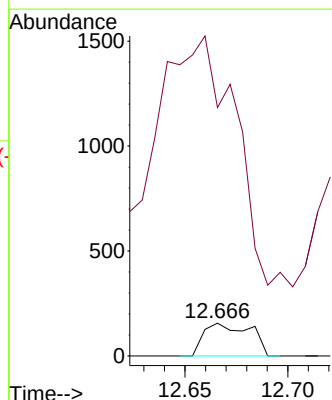
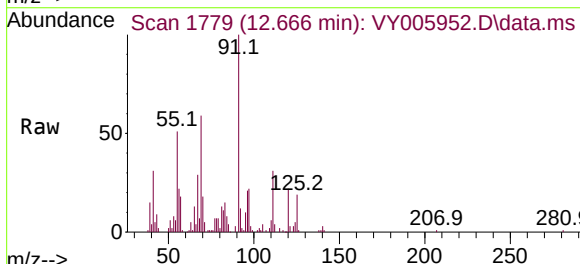
Instrument :
 MSVOA_Y
 ClientSampleId :

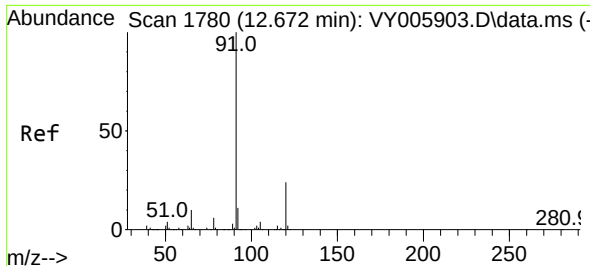
Tgt Ion: 83 Resp: 4881
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.7 17.0#
 85 98.4 31.9 95.9#



#76
 1,2,3-Trichloropropane
 Concen: 1.559 ug/l
 RT: 12.666 min Scan# 1779
 Delta R.T. 0.030 min
 Lab File: VY005952.D
 Acq: 07 Sep 2021 18:21

Tgt Ion: 75 Resp: 243
 Ion Ratio Lower Upper
 75 100
 77 1316.0 0.0 0.0#

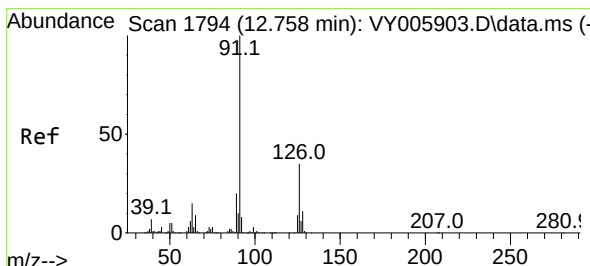
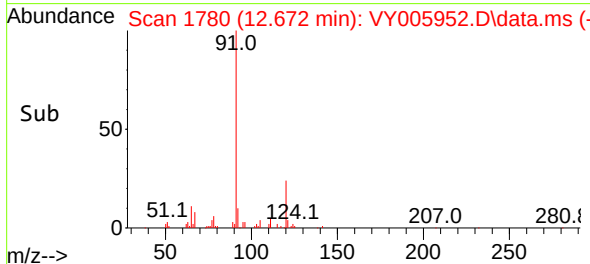
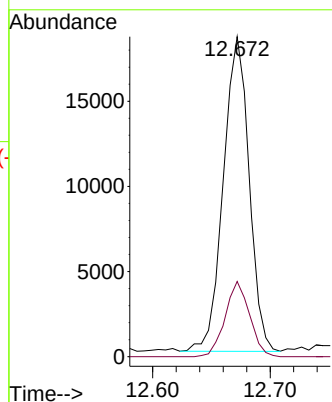
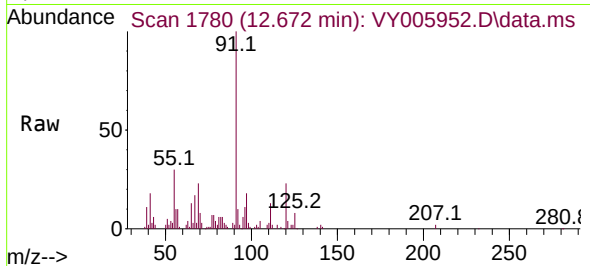




#78
n-propylbenzene
Concen: 21.235 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

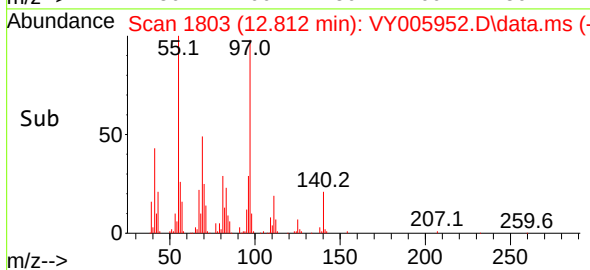
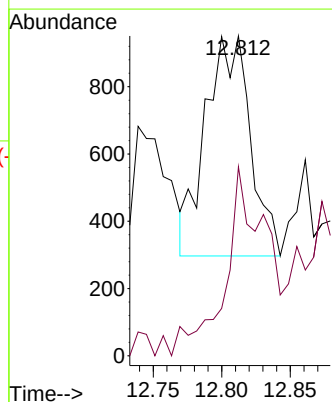
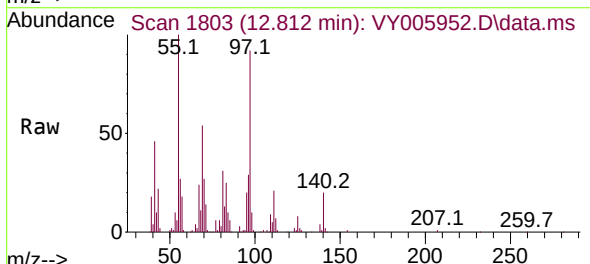
Instrument :
MSVOA_Y
ClientSampled :

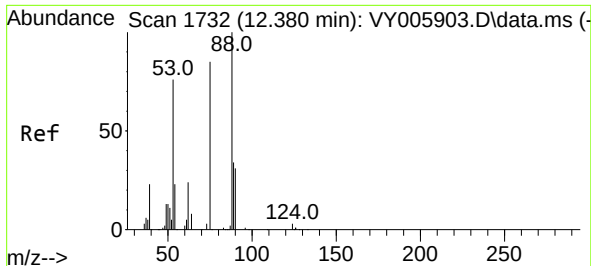
Tgt Ion: 91 Resp: 28164
Ion Ratio Lower Upper
91 100
120 22.6 11.9 35.9



#79
2-Chlorotoluene
Concen: 2.007 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.055 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

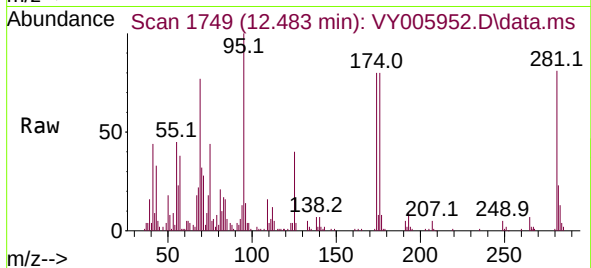
Tgt Ion: 91 Resp: 1482
Ion Ratio Lower Upper
91 100
126 78.5 17.8 53.4#



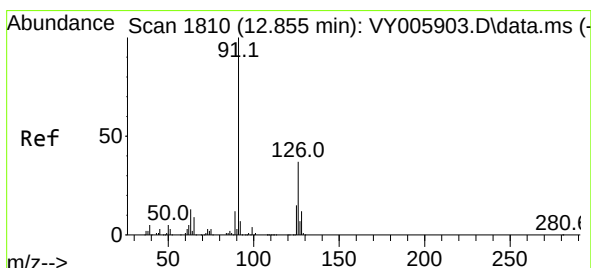
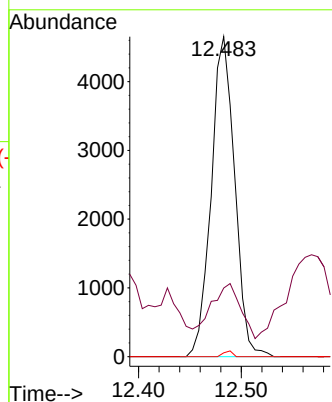
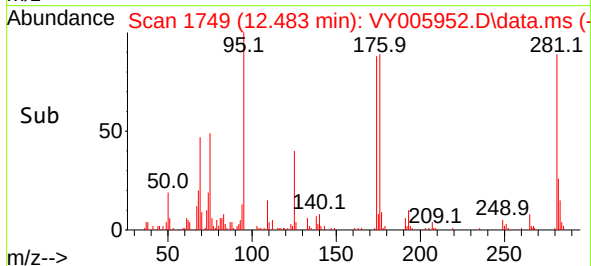


#81
trans-1,4-Dichloro-2-butene
Concen: 89.867 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

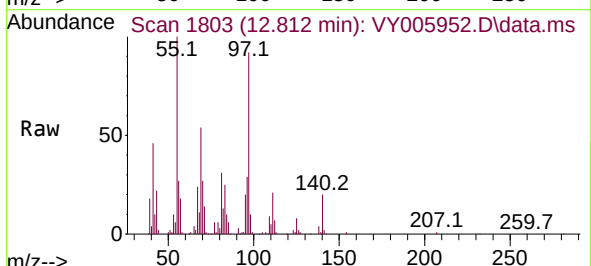
Instrument :
MSVOA_Y
ClientSampleId :



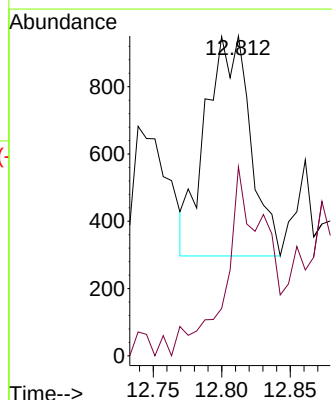
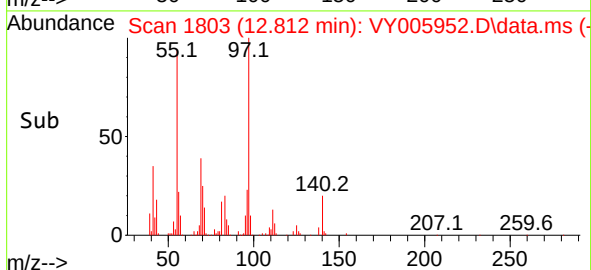
Tgt Ion: 75 Resp: 7364
Ion Ratio Lower Upper
75 100
53 21.3 71.8 107.8#
89 0.7 35.8 53.6#

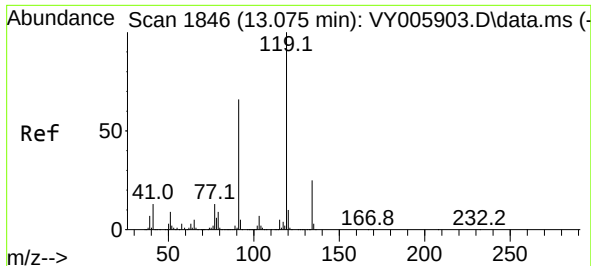


#82
4-Chlorotoluene
Concen: 1.913 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.043 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21



Tgt Ion: 91 Resp: 1482
Ion Ratio Lower Upper
91 100
126 78.5 18.2 54.6#

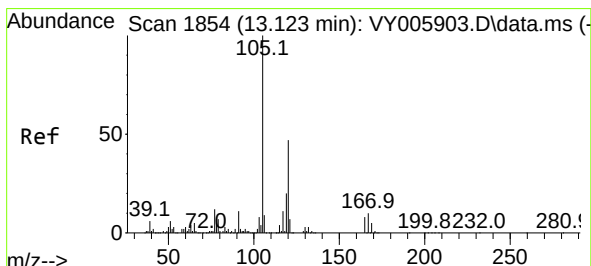
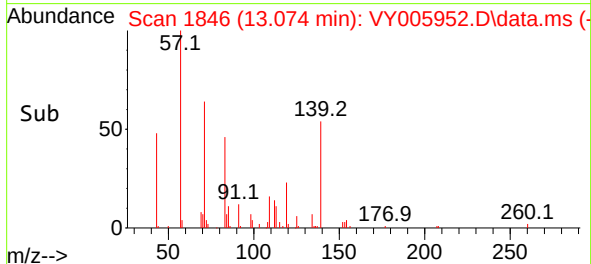
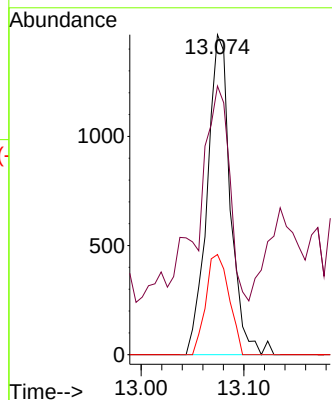
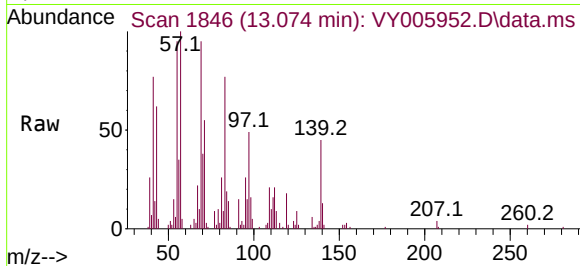




#83
tert-Butylbenzene
Concen: 2.836 ug/l
RT: 13.074 min Scan# 1846
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

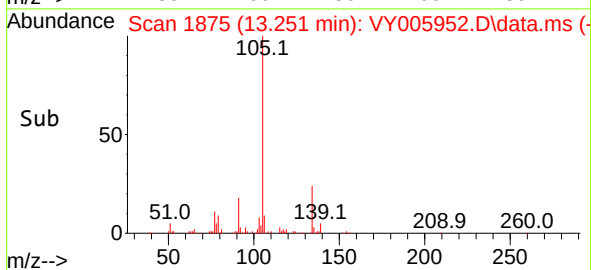
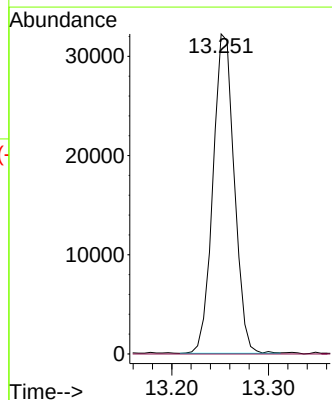
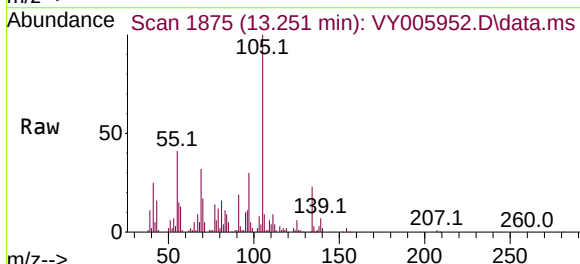
Instrument :
MSVOA_Y
ClientSampleId :

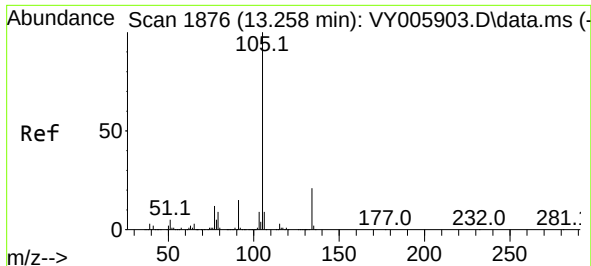
Tgt Ion:119 Resp: 2305
Ion Ratio Lower Upper
119 100
91 90.4 32.4 97.0
134 31.3 13.5 40.5



#84
1,2,4-Trimethylbenzene
Concen: 53.394 ug/l
RT: 13.251 min Scan# 1875
Delta R.T. 0.128 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion:105 Resp: 49245
Ion Ratio Lower Upper
105 100
120 0.0 23.3 69.9#

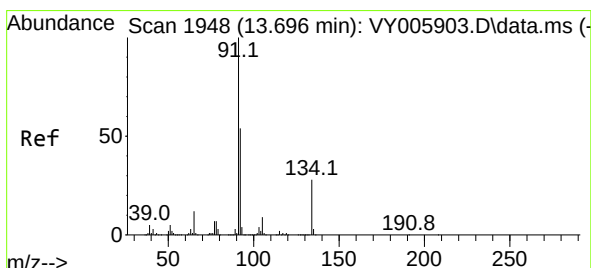
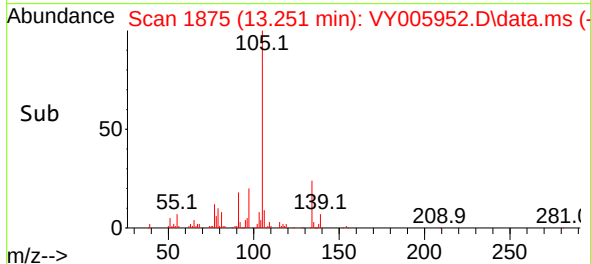
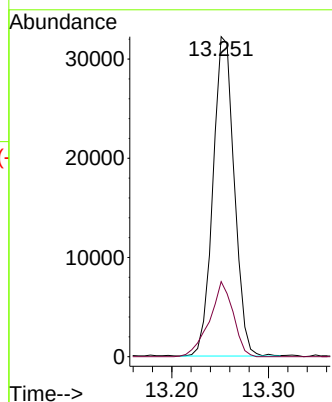
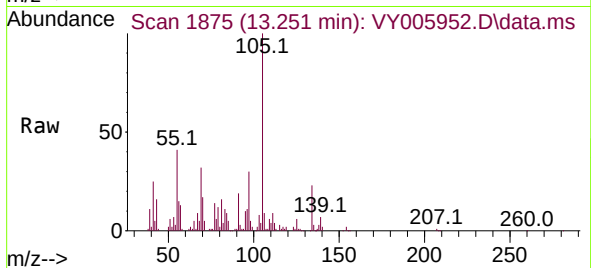




#85
sec-Butylbenzene
Concen: 41.113 ug/l
RT: 13.251 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

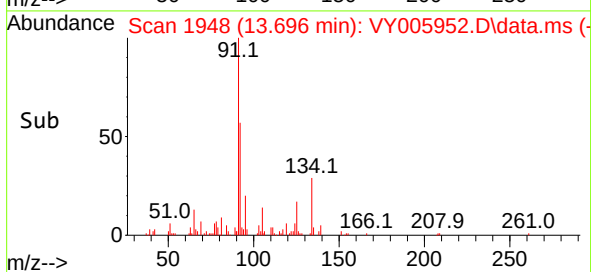
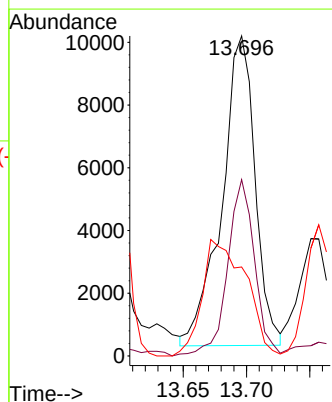
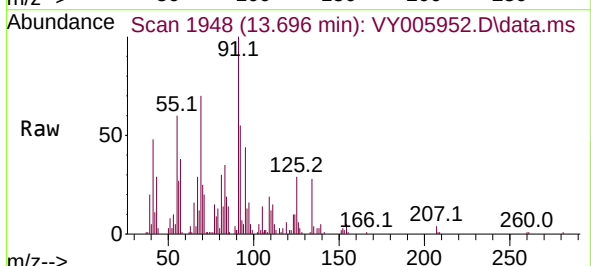
Instrument :
MSVOA_Y
ClientSampled :

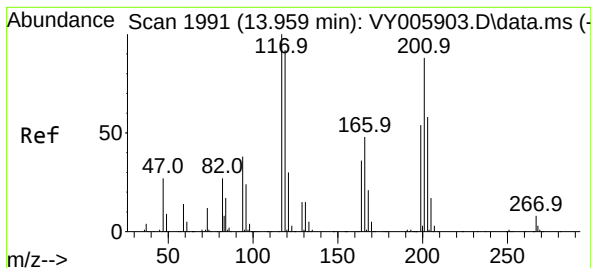
Tgt Ion:105 Resp: 49245
Ion Ratio Lower Upper
105 100
134 26.1 10.8 32.3



#89
n-Butylbenzene
Concen: 19.451 ug/l
RT: 13.696 min Scan# 1948
Delta R.T. -0.000 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion: 91 Resp: 18063
Ion Ratio Lower Upper
91 100
92 46.0 26.7 80.0
134 0.0 14.1 42.2#

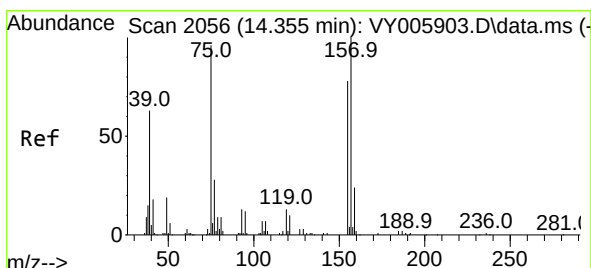
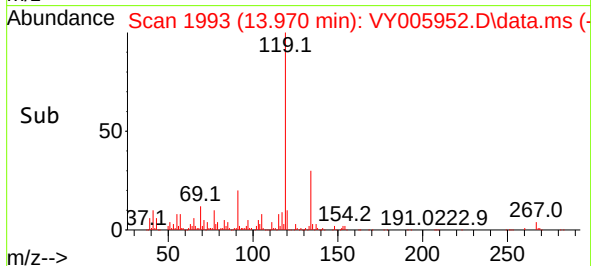
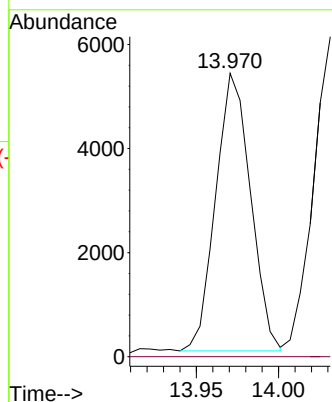
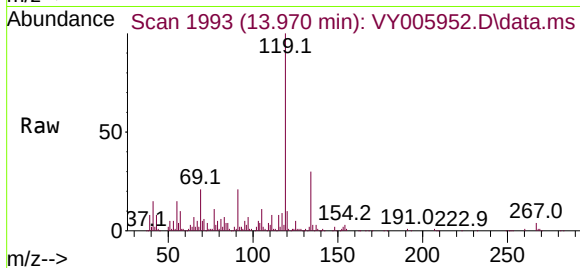




#90
Hexachloroethane
Concen: 41.756 ug/l
RT: 13.970 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

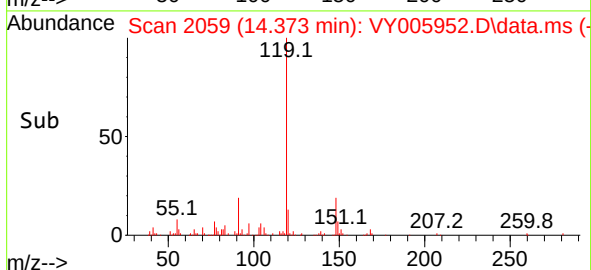
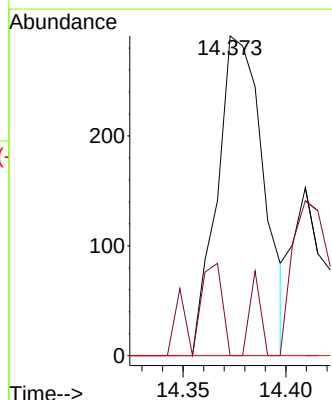
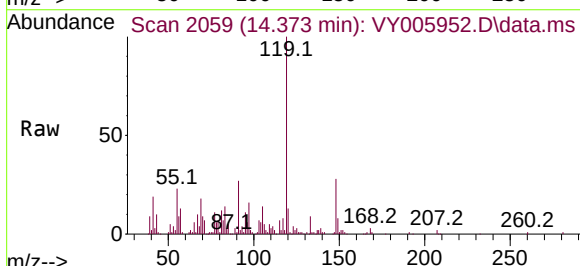
Instrument :
MSVOA_Y
ClientSampled :

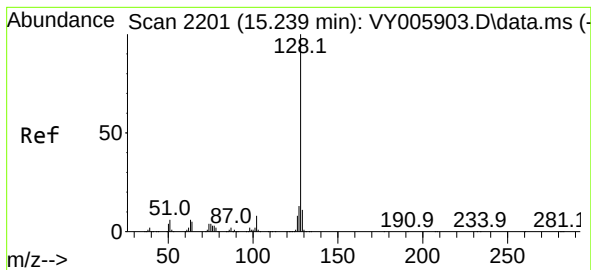
Tgt Ion:117 Resp: 7865
Ion Ratio Lower Upper
117 100
201 0.0 47.2 141.6#



#92
1,2-Dibromo-3-Chloropropane
Concen: 11.563 ug/l
RT: 14.373 min Scan# 2059
Delta R.T. 0.018 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Tgt Ion: 75 Resp: 458
Ion Ratio Lower Upper
75 100
155 17.7 43.1 129.3#
157 0.0 54.4 163.3#





#95
Naphthalene
Concen: 4.691 ug/l
RT: 15.202 min Scan# 2195
Delta R.T. -0.037 min
Lab File: VY005952.D
Acq: 07 Sep 2021 18:21

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:128 Resp: 2934
Ion Ratio Lower Upper
128 100
127 52.6 10.6 15.8#
129 72.8 8.7 13.1#

