

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU063021\
 Data File : VU044261.D
 Acq On : 30 Jun 2021 14:46
 Operator : SY/MD
 Sample : M2905-08
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 01 02:38:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR062121WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jul 01 02:36:13 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	157123	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	151030	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	86025	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	33267	3.911	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.200%
7) Chloroethane-d5	1.916	69	35297	4.214	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.200%
11) 1,1-Dichloroethene-d2	2.572	65	17762	4.068	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.400%
20) 2-Butanone-d5	4.633	46	118518	37.833	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	75.660%
24) Chloroform-d	5.073	84	81395	4.250	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.000%
26) 1,2-Dichloroethane-d4	5.710	65	45752	3.997	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.000%
32) Benzene-d6	5.736	84	161944	4.317	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.400%
36) 1,2-Dichloropropane-d6	6.697	67	52858	4.348	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.000%
41) Toluene-d8	7.906	98	153632	4.414	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.200%
43) trans-1,3-Dichloroprop...	8.186	79	21424	3.800	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.000%
46) 2-Hexanone-d5	8.639	63	103509	38.542	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.080%
56) 1,1,2,2-Tetrachloroeth...	10.761	84	41365	3.828	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	76.600%
66) 1,2-Dichlorobenzene-d4	12.198	152	63869	4.506	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.200%

Target Compounds				Qvalue		
5) Vinyl chloride	1.607	62	1131	0.102	ug/L #	1
6) Bromomethane	1.867	94	582	0.082	ug/L	94
12) 1,1-Dichloroethene	2.584	96	2908	0.321	ug/L #	1
15) Methyl Acetate	2.961	43	323	0.082	ug/L #	53
18) trans-1,2-Dichloroethene	3.359	96	21427	2.219	ug/L	99
22) cis-1,2-Dichloroethene	4.674	96	582145	55.095	ug/L	95
27) 1,2-Dichloroethane	5.787	62	1837	0.140	ug/L #	76
33) Benzene	5.781	78	128860	3.252	ug/L	100
34) Trichloroethene	6.549	95	566713	52.815	ug/L	96
40) 4-Methyl-2-pentanone	7.800	43	12307	1.464	ug/L #	88
42) Toluene	7.977	91	12221	0.280	ug/L	98
47) Tetrachloroethene	8.559	164	437624	55.167	ug/L	96
48) 2-Hexanone	8.687	43	11891	2.007	ug/L #	93
49) Dibromochloromethane	8.559	129	405801	40.594	ug/L #	11
51) Chlorobenzene	9.452	112	381095	13.637	ug/L	99
52) Ethylbenzene	9.575	91	52104	1.034	ug/L	100
53) m,p-Xylene	9.697	106	8550	0.448	ug/L	100
54) o-Xylene	10.105	106	25872	1.396	ug/L	95
55) Styrene	10.118	104	3267	0.100	ug/L #	6

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

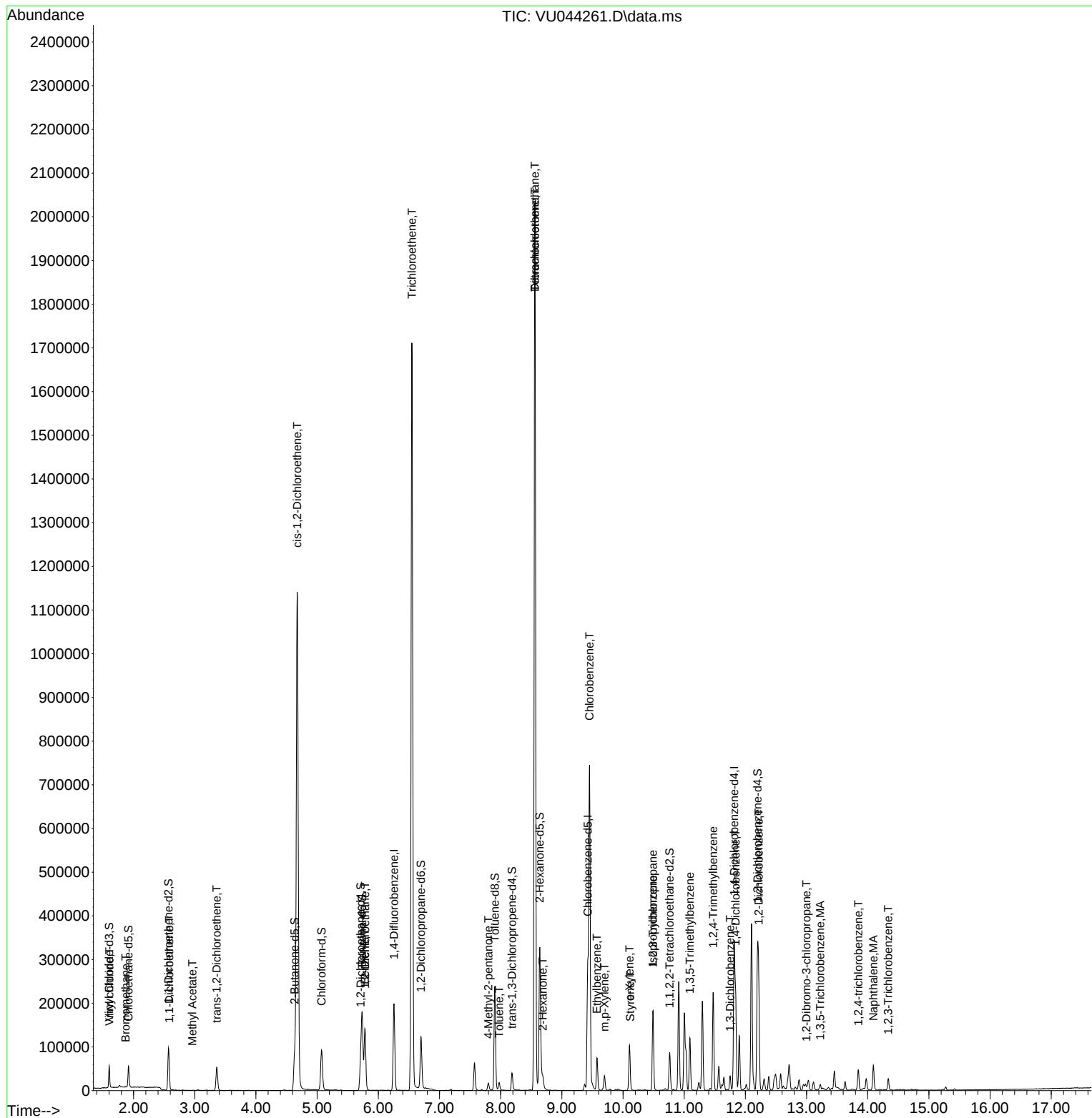
60) Isopropylbenzene	10.491	105	119281	2.280	ug/L	99
61) 1,2,3-Trichloropropane	10.488	75	1479	0.190	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.092	105	64798	1.422	ug/L	99
63) 1,2,4-Trimethylbenzene	11.475	105	121994	2.617	ug/L	98
64) 1,3-Dichlorobenzene	11.751	146	7794	0.330	ug/L	99
65) 1,4-Dichlorobenzene	11.841	146	77472	3.254	ug/L	99
67) 1,2-Dichlorobenzene	12.218	146	71563	3.223	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.996	75	382	0.188	ug/L #	83
69) 1,3,5-Trichlorobenzene	13.224	180	3618	0.201	ug/L	96
70) 1,2,4-trichlorobenzene	13.848	180	13432	0.881	ug/L	98
71) Naphthalene	14.092	128	45620	1.654	ug/L	99
72) 1,2,3-Trichlorobenzene	14.336	180	8390	0.637	ug/L	98

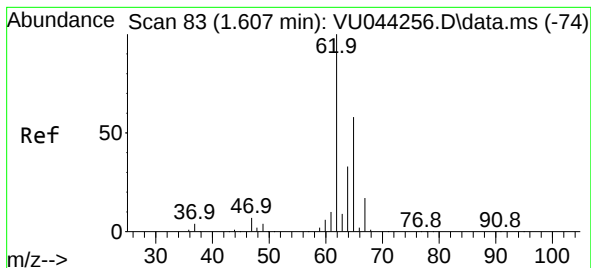
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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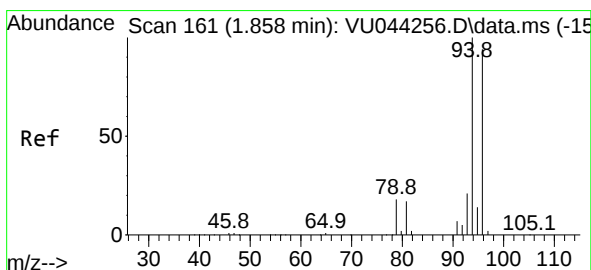
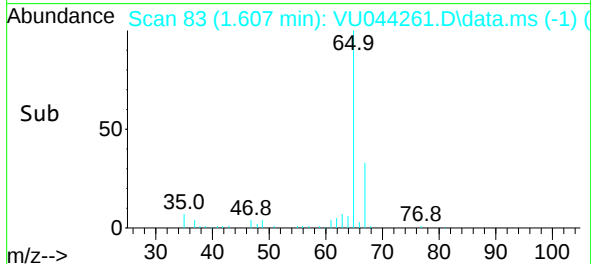
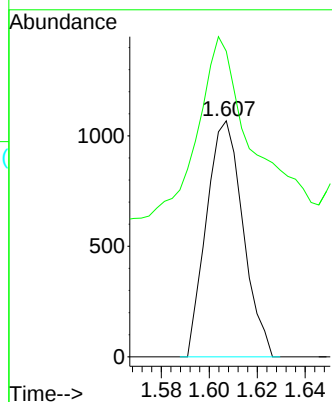
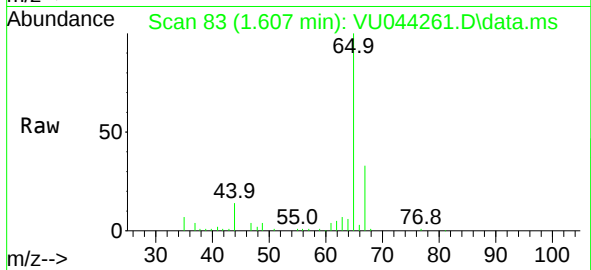




#5
 Vinyl chloride
 Concen: 0.102 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU044261.D
 Acq: 30 Jun 2021 14:46

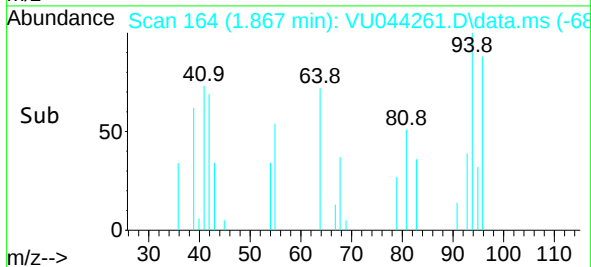
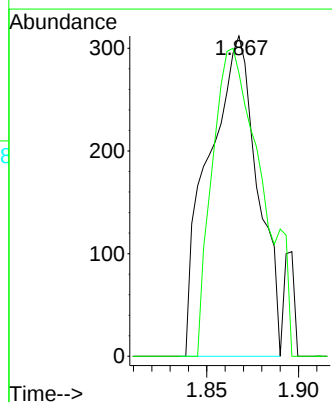
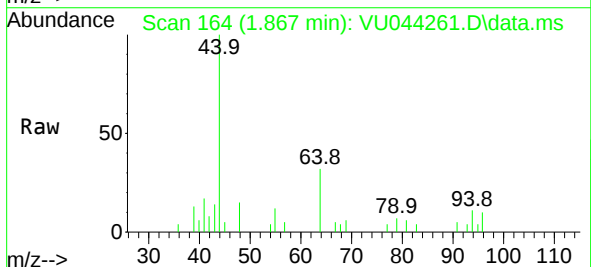
Instrument :
 MSVOA_U
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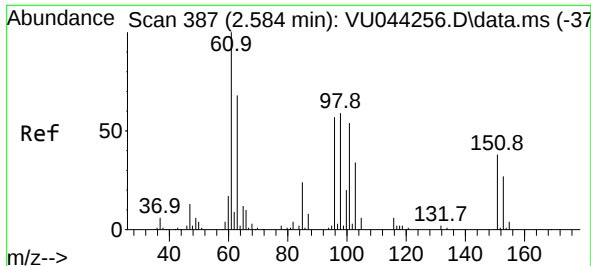
Tgt Ion: 62 Resp: 1131
 Ion Ratio Lower Upper
 62 100
 64 129.5 23.7 44.1#



#6
 Bromomethane
 Concen: 0.082 ug/L
 RT: 1.867 min Scan# 164
 Delta R.T. 0.010 min
 Lab File: VU044261.D
 Acq: 30 Jun 2021 14:46

Tgt Ion: 94 Resp: 582
 Ion Ratio Lower Upper
 94 100
 96 88.5 65.8 122.2





#12

1,1-Dichloroethene

Concen: 0.321 ug/L

RT: 2.584 min Scan# 387

Delta R.T. 0.000 min

Lab File: VU044261.D

Acq: 30 Jun 2021 14:46

Tgt Ion: 96 Resp: 2908

Ion Ratio Lower Upper

96 100

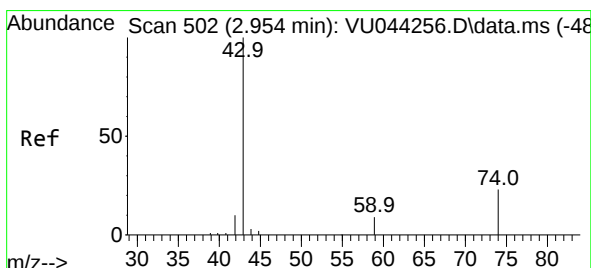
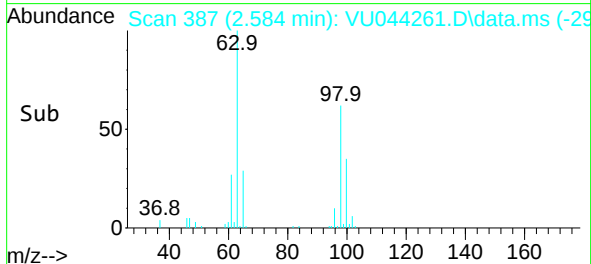
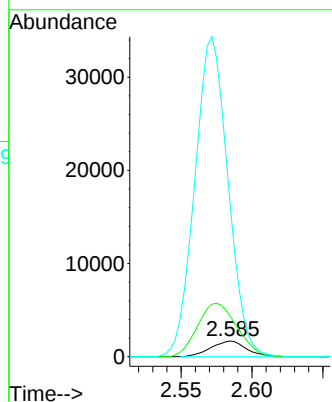
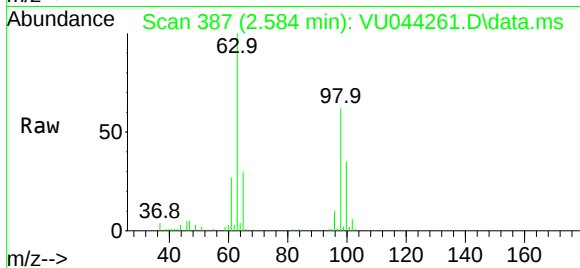
61 258.4 128.6 238.8#

63 973.2 84.3 156.5#

Instrument :

MSVOA_U

ClientSampled :



#15

Methyl Acetate

Concen: 0.082 ug/L

RT: 2.961 min Scan# 504

Delta R.T. 0.007 min

Lab File: VU044261.D

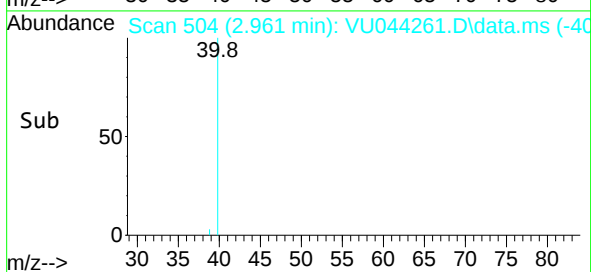
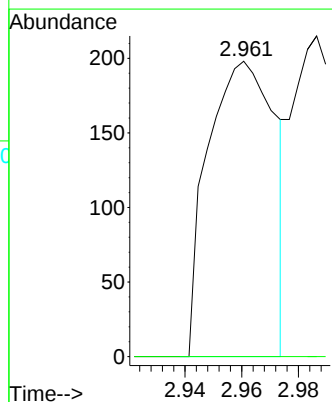
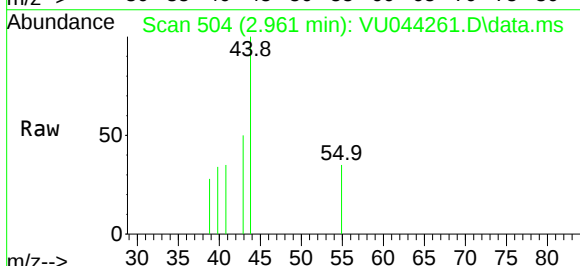
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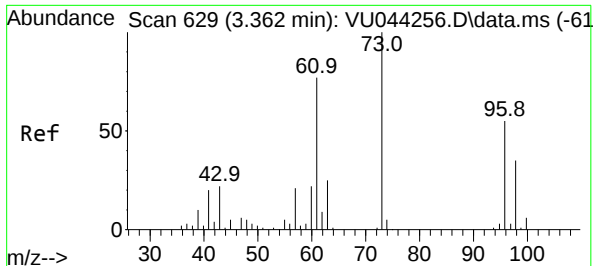
Tgt Ion: 43 Resp: 323

Ion Ratio Lower Upper

43 100

74 0.0 18.4 27.6#

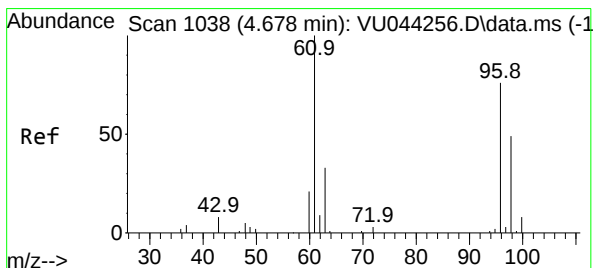
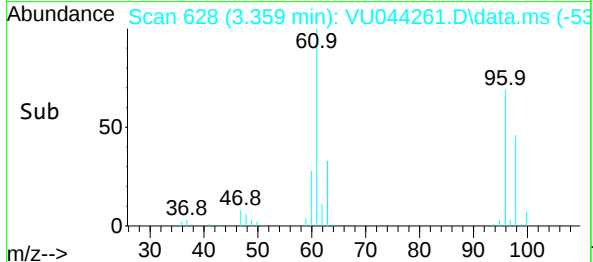
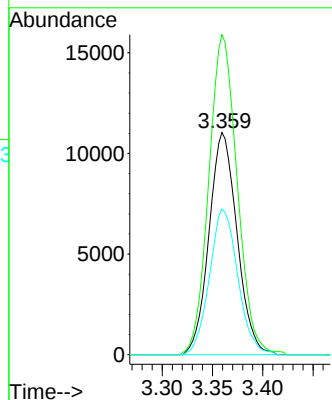
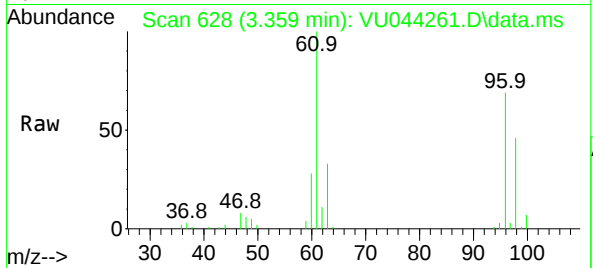




#18
trans-1,2-Dichloroethene
Concen: 2.219 ug/L
RT: 3.359 min Scan# 628
Delta R.T. -0.003 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

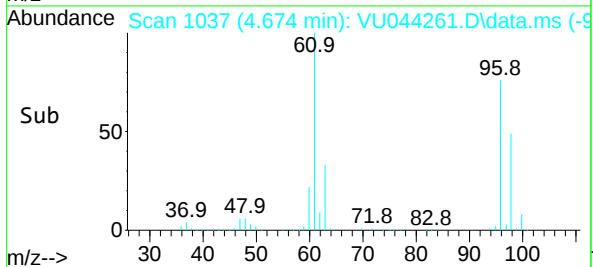
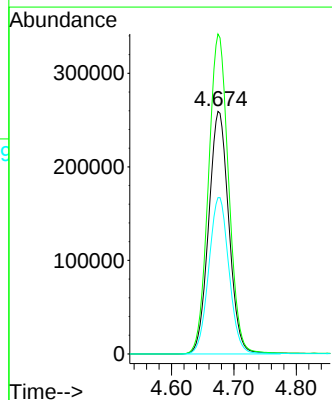
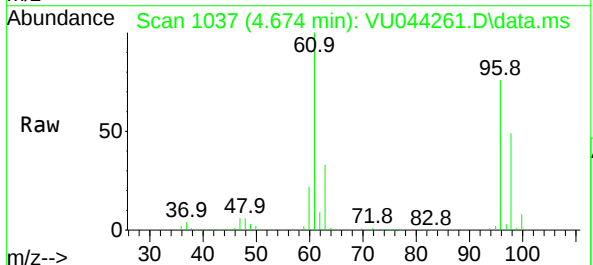
Instrument :
MSVOA_U
ClientSampled :

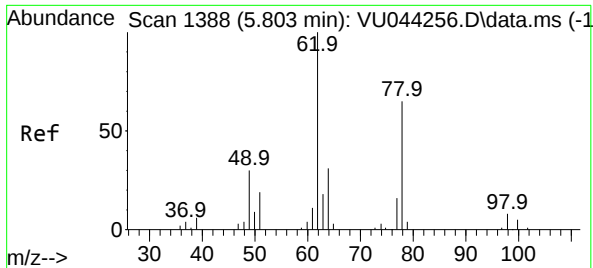
Tgt Ion: 96 Resp: 21427
Ion Ratio Lower Upper
96 100
61 144.0 100.2 186.2
98 65.6 44.9 83.5



#22
cis-1,2-Dichloroethene
Concen: 55.095 ug/L
RT: 4.674 min Scan# 1037
Delta R.T. -0.003 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

Tgt Ion: 96 Resp: 582145
Ion Ratio Lower Upper
96 100
61 131.9 98.8 183.6
98 64.4 44.8 83.2





#27

1,2-Dichloroethane

Concen: 0.140 ug/L

RT: 5.787 min Scan# 1383

Delta R.T. -0.016 min

Lab File: VU044261.D

Acq: 30 Jun 2021 14:46

Tgt Ion: 62 Resp: 1837

Ion Ratio Lower Upper

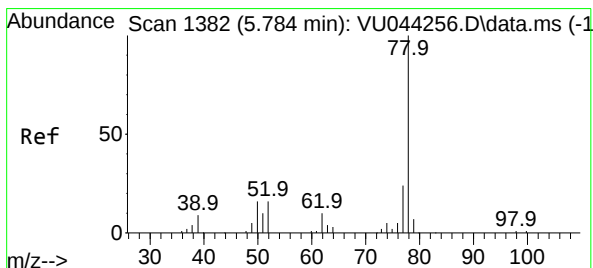
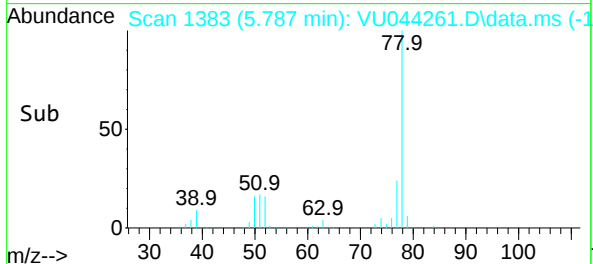
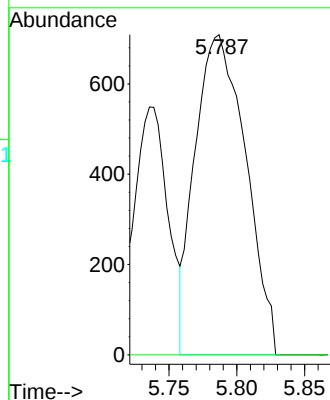
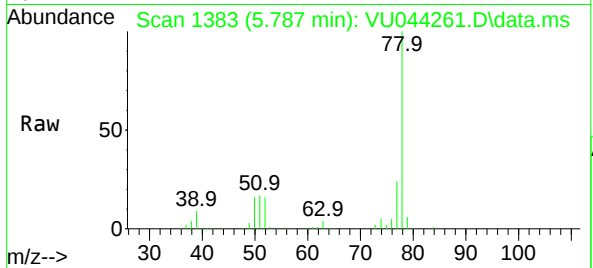
62 100

98 0.0 6.8 10.2#

Instrument :

MSVOA_U

ClientSampled :



#33

Benzene

Concen: 3.252 ug/L

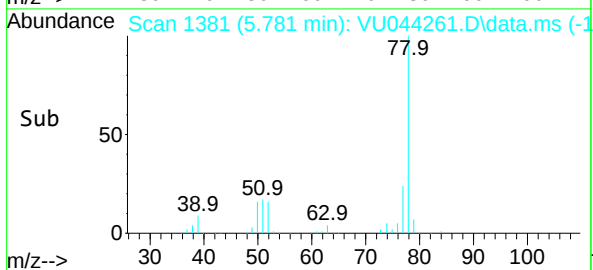
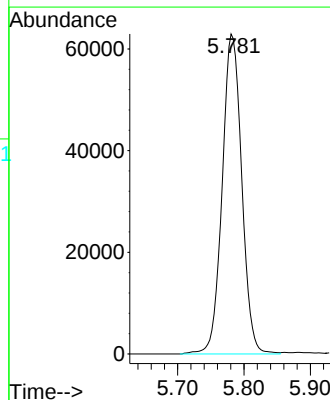
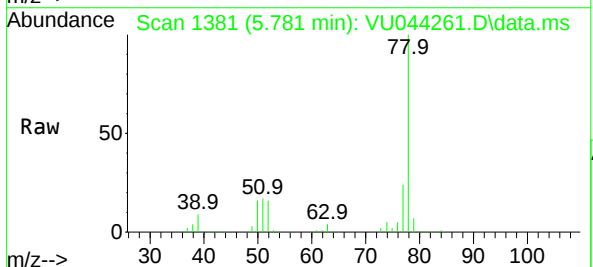
RT: 5.781 min Scan# 1381

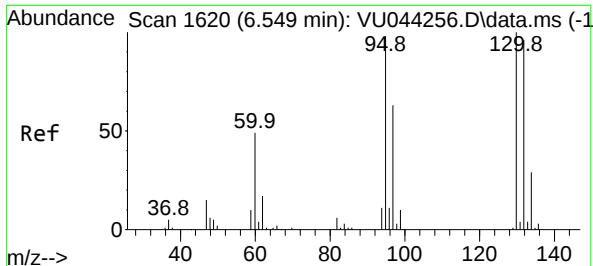
Delta R.T. -0.003 min

Lab File: VU044261.D

Acq: 30 Jun 2021 14:46

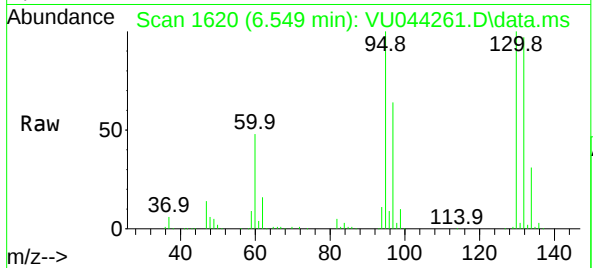
Tgt Ion: 78 Resp: 128860



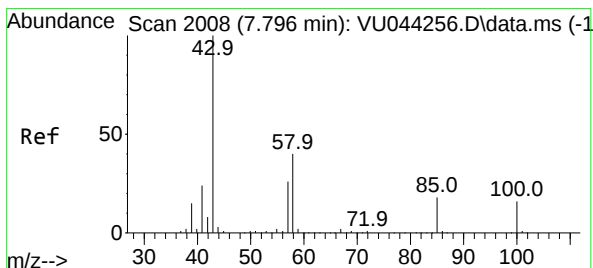
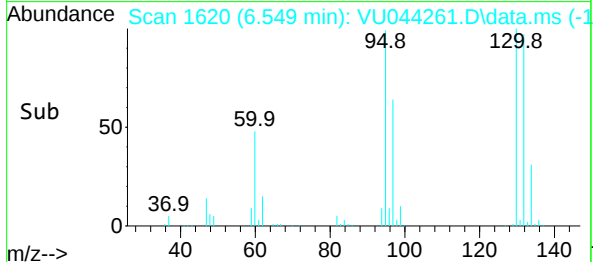
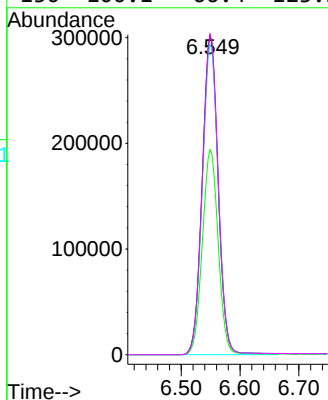


#34
Trichloroethene
Concen: 52.815 ug/L
RT: 6.549 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

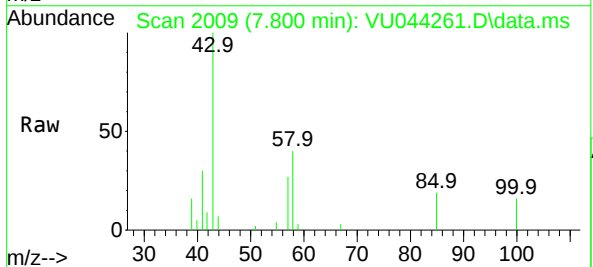
Instrument :
MSVOA_U
ClientSampled :



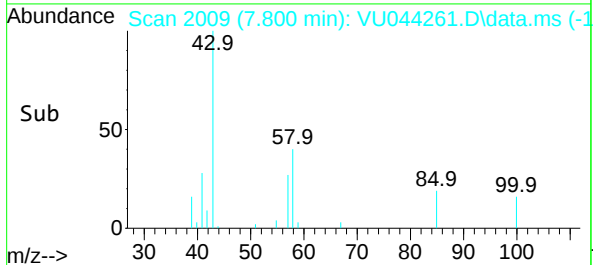
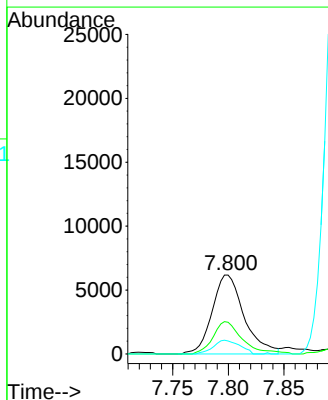
Tgt Ion: 95 Resp: 566713
Ion Ratio Lower Upper
95 100
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132 97.2 64.3 119.5
130 100.1 66.4 123.2

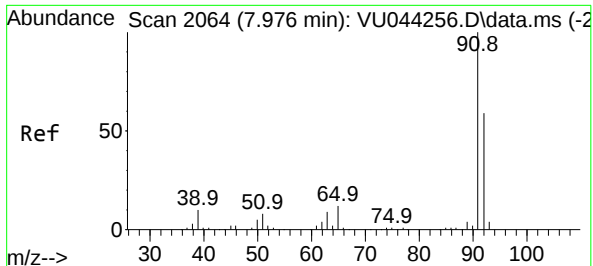


#40
4-Methyl-2-pentanone
Concen: 1.464 ug/L
RT: 7.800 min Scan# 2009
Delta R.T. 0.003 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46



Tgt Ion: 43 Resp: 12307
Ion Ratio Lower Upper
43 100
58 37.6 31.2 46.8
100 0.0 12.3 18.5#

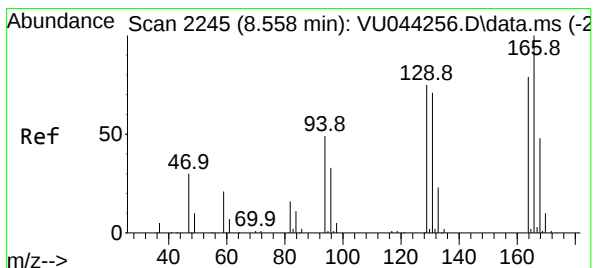
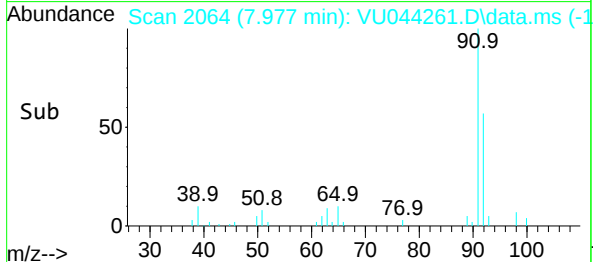
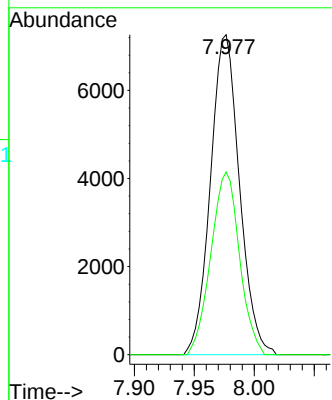
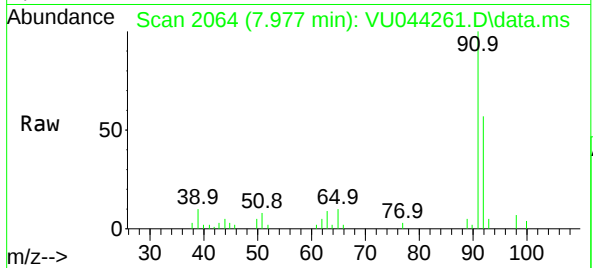




#42
Toluene
Concen: 0.280 ug/L
RT: 7.977 min Scan# 2064
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

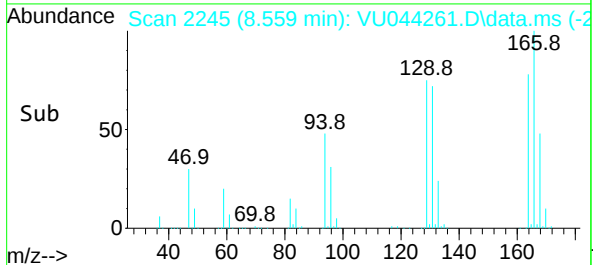
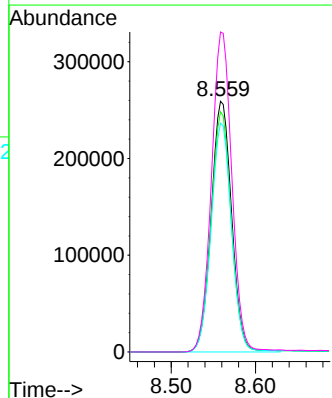
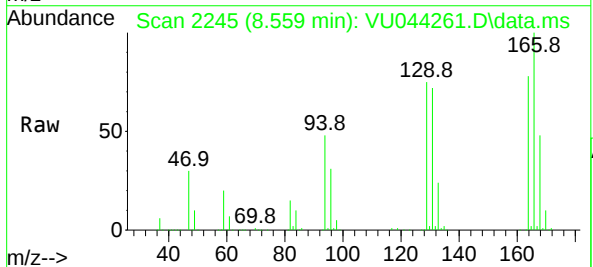
Instrument :
MSVOA_U
ClientSampled :

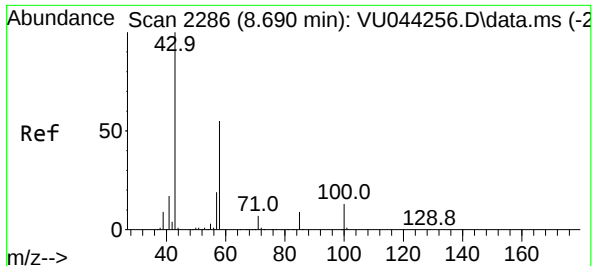
Tgt Ion: 91 Resp: 12221
Ion Ratio Lower Upper
91 100
92 57.1 41.2 76.6



#47
Tetrachloroethene
Concen: 55.167 ug/L
RT: 8.559 min Scan# 2245
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

Tgt Ion: 164 Resp: 437624
Ion Ratio Lower Upper
164 100
129 95.8 71.8 133.4
131 91.2 66.4 123.2
166 127.6 91.6 170.2

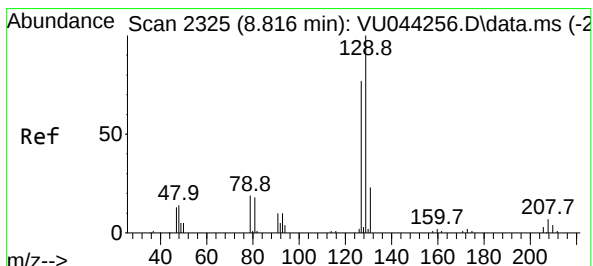
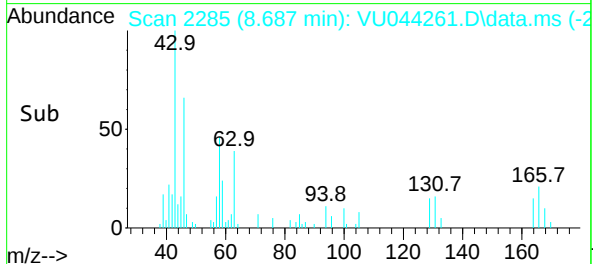
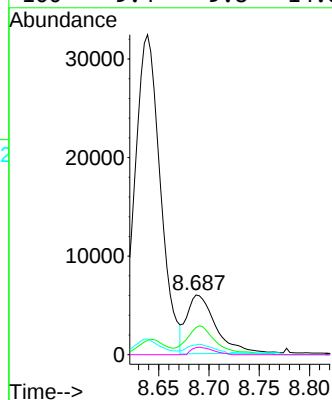
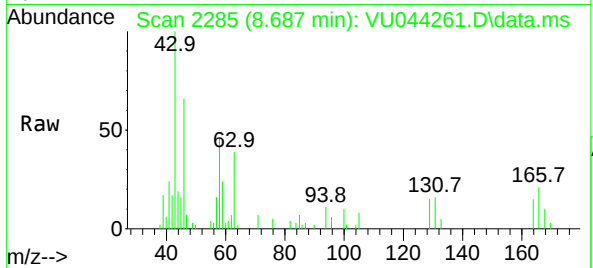




#48
2-Hexanone
Concen: 2.007 ug/L
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

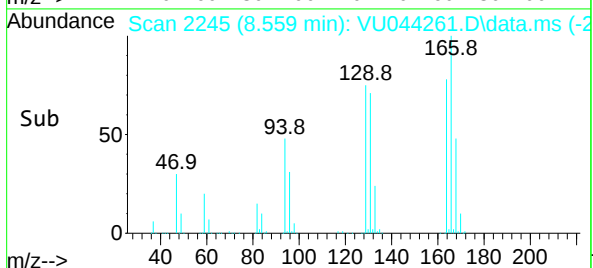
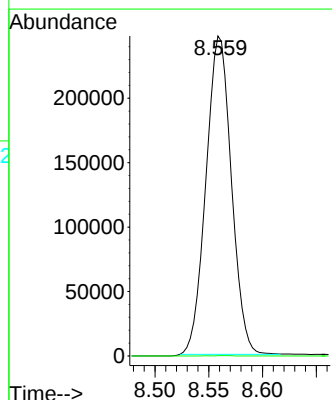
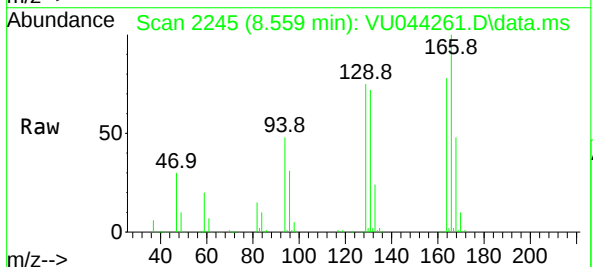
Instrument :
MSVOA_U
ClientSampleId :

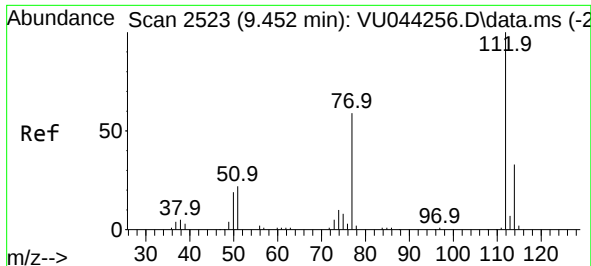
Tgt Ion: 43 Resp: 11891
Ion Ratio Lower Upper
43 100
58 50.7 44.7 67.1
57 17.1 15.7 23.5
100 9.4 9.8 14.8#



#49
Dibromochloromethane
Concen: 40.594 ug/L
RT: 8.559 min Scan# 2245
Delta R.T. -0.257 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

Tgt Ion: 129 Resp: 405801
Ion Ratio Lower Upper
129 100
127 0.1 53.6 99.6#

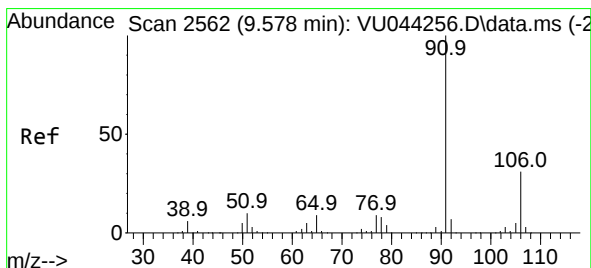
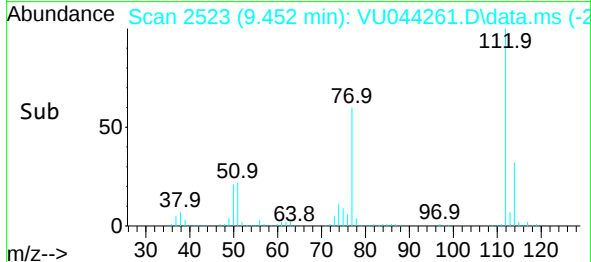
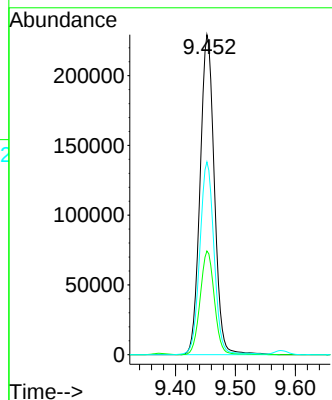
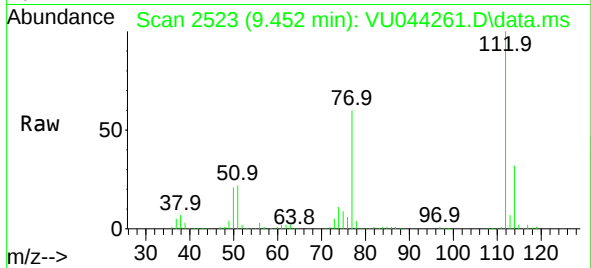




#51
Chlorobenzene
Concen: 13.637 ug/L
RT: 9.452 min Scan# 2523
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

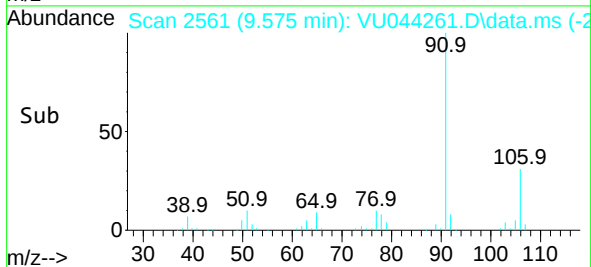
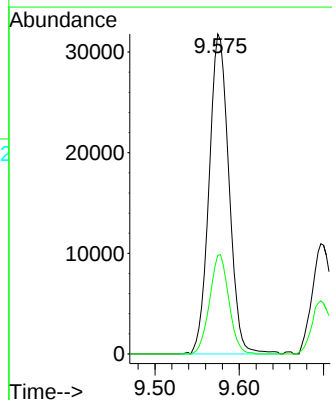
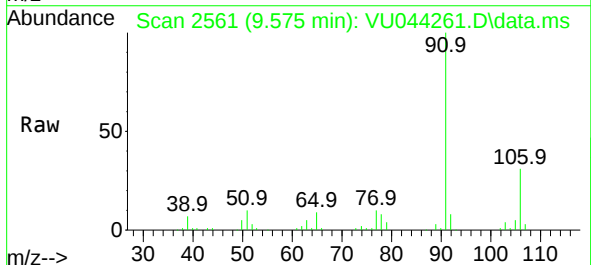
Instrument :
MSVOA_U
ClientSampleId :

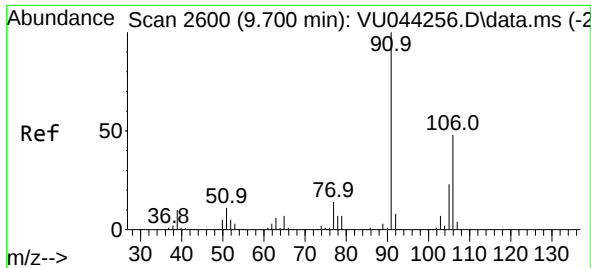
Tgt Ion:112 Resp: 381095
Ion Ratio Lower Upper
112 100
114 32.4 22.0 41.0
77 60.2 48.9 73.3



#52
Ethylbenzene
Concen: 1.034 ug/L
RT: 9.575 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

Tgt Ion: 91 Resp: 52104
Ion Ratio Lower Upper
91 100
106 30.9 21.6 40.2

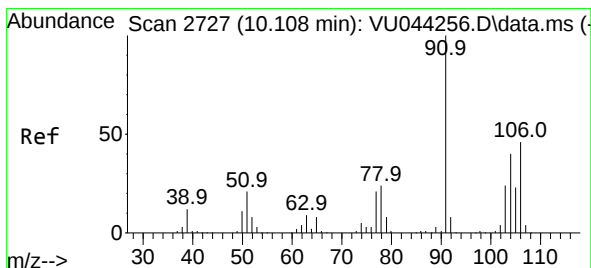
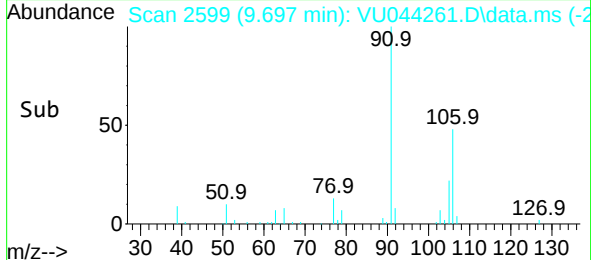
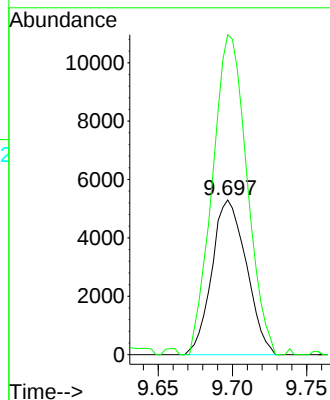
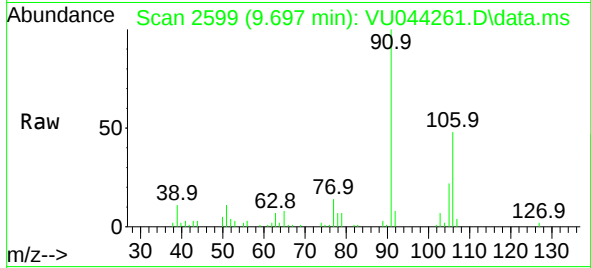




#53
m,p-Xylene
Concen: 0.448 ug/L
RT: 9.697 min Scan# 2599
Delta R.T. -0.003 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

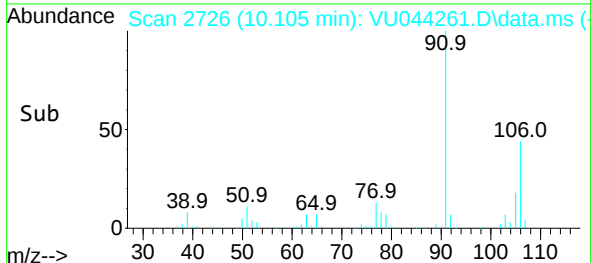
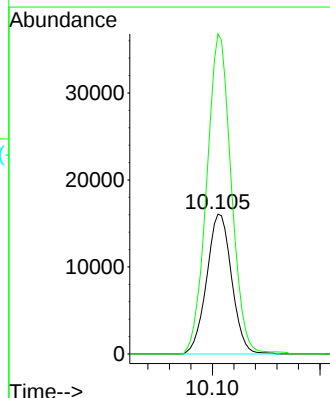
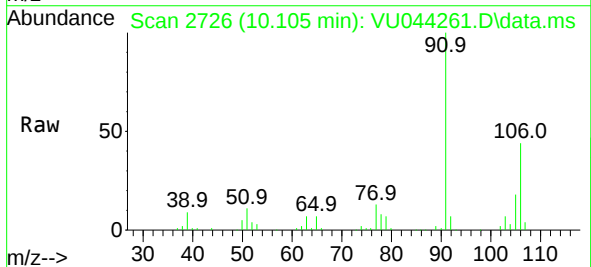
Instrument :
MSVOA_U
ClientSampled :

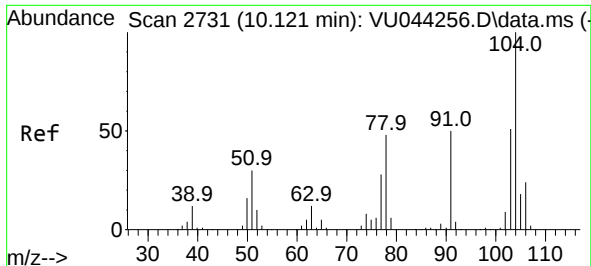
Tgt Ion:106 Resp: 8550
Ion Ratio Lower Upper
106 100
91 206.8 144.8 269.0



#54
o-Xylene
Concen: 1.396 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. -0.003 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

Tgt Ion:106 Resp: 25872
Ion Ratio Lower Upper
106 100
91 228.8 154.8 287.4

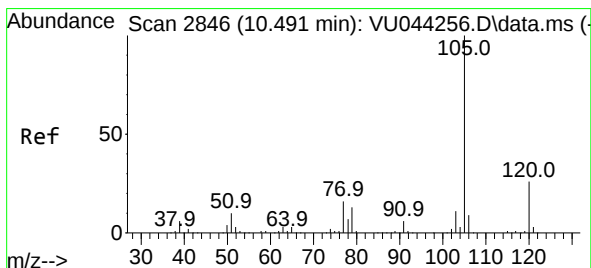
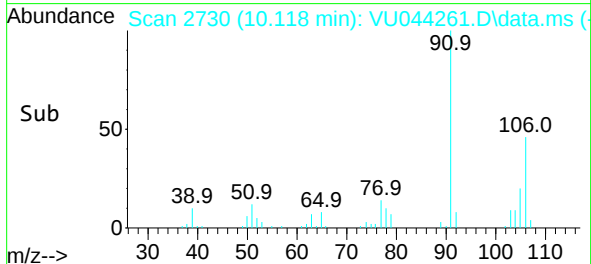
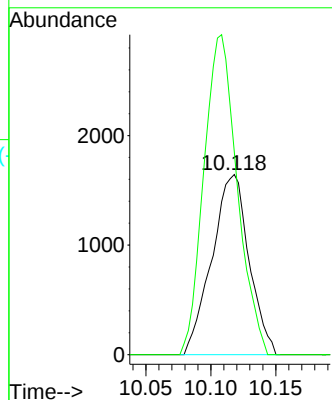
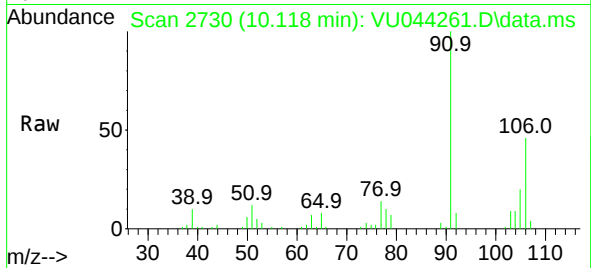




#55
Styrene
Concen: 0.100 ug/L
RT: 10.118 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

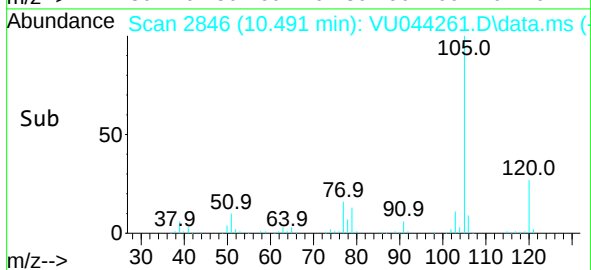
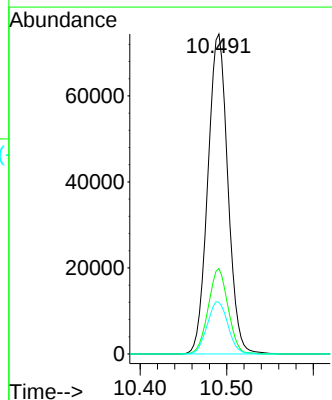
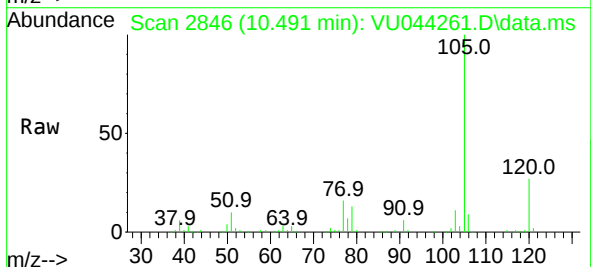
Instrument :
MSVOA_U
ClientSampled :

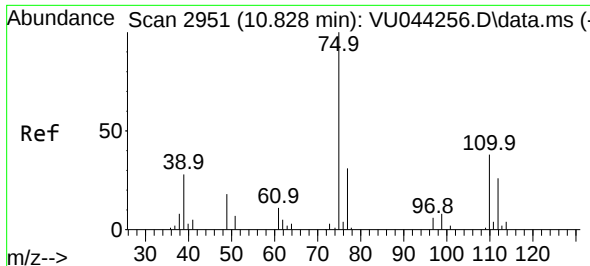
Tgt Ion:104 Resp: 3267
Ion Ratio Lower Upper
104 100
78 112.7 34.1 63.3#



#60
Isopropylbenzene
Concen: 2.280 ug/L
RT: 10.491 min Scan# 2846
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

Tgt Ion:105 Resp: 119281
Ion Ratio Lower Upper
105 100
120 26.4 20.7 31.1
77 16.9 12.9 19.3

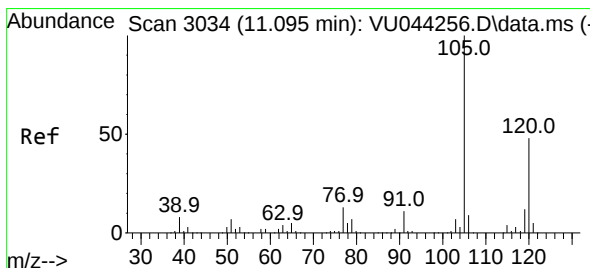
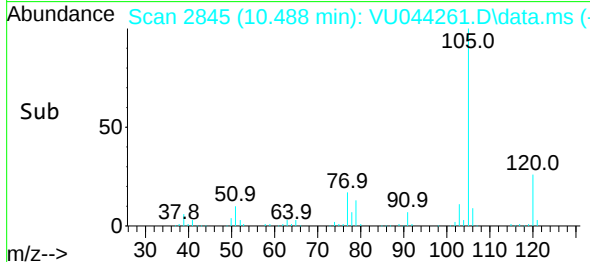
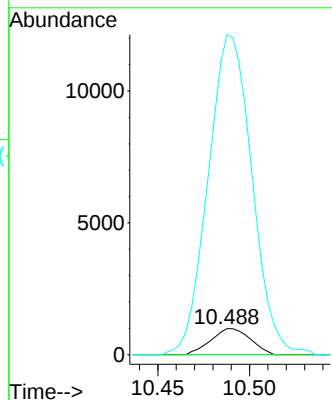
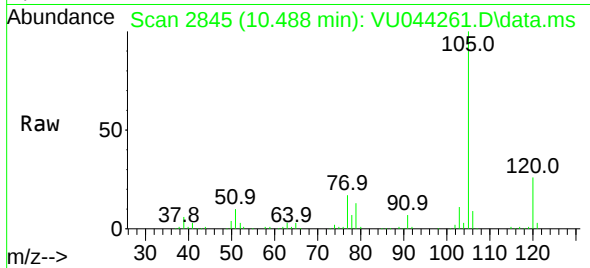




#61
1,2,3-Trichloropropane
Concen: 0.190 ug/L
RT: 10.488 min Scan# 2845
Delta R.T. -0.341 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

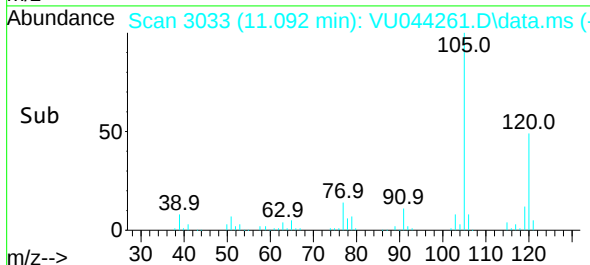
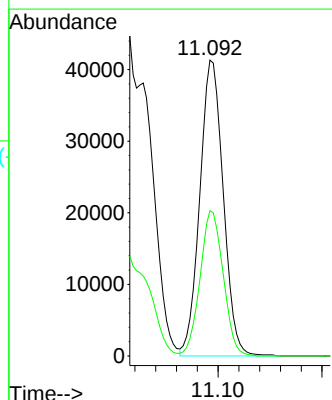
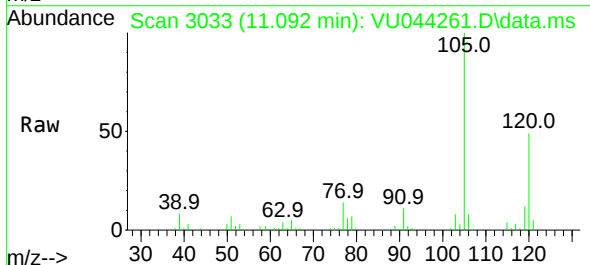
Instrument :
MSVOA_U
ClientSampled :

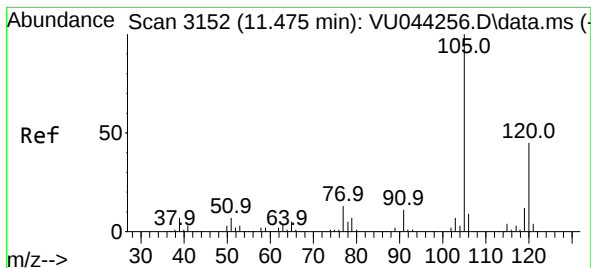
Tgt Ion: 75 Resp: 1479
Ion Ratio Lower Upper
75 100
110 0.0 30.5 45.7#
77 1365.4 26.1 39.1#



#62
1,3,5-Trimethylbenzene
Concen: 1.422 ug/L
RT: 11.092 min Scan# 3033
Delta R.T. -0.003 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

Tgt Ion: 105 Resp: 64798
Ion Ratio Lower Upper
105 100
120 48.5 38.0 57.0

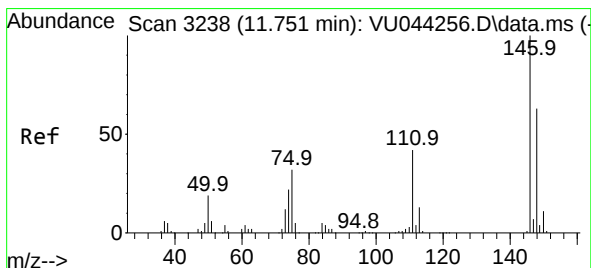
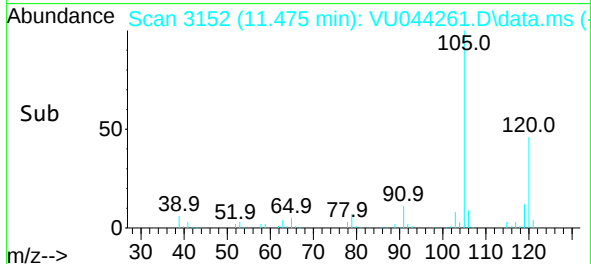
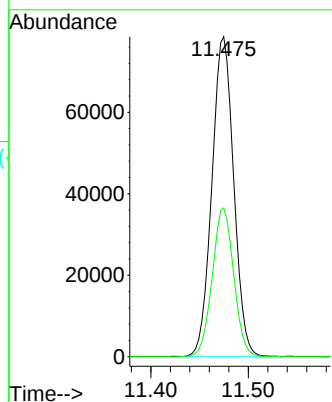
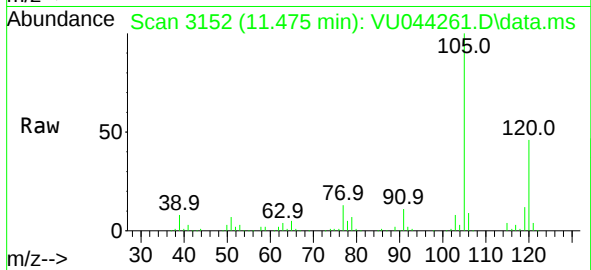




#63
1,2,4-Trimethylbenzene
Concen: 2.617 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

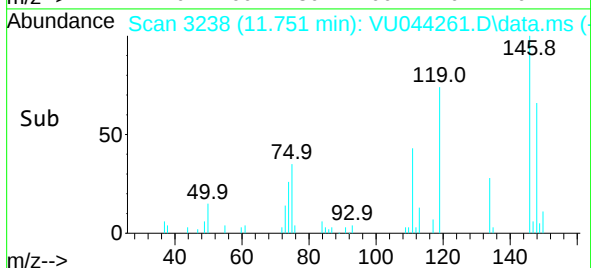
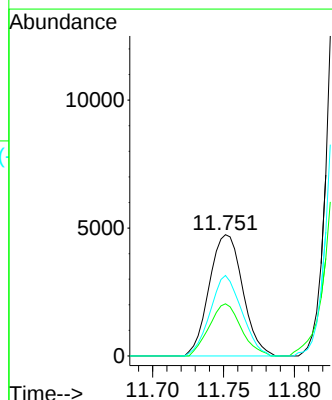
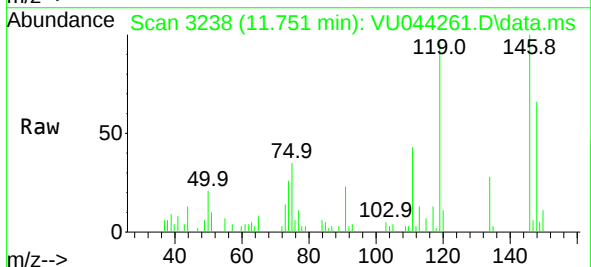
Instrument :
MSVOA_U
ClientSampleId :

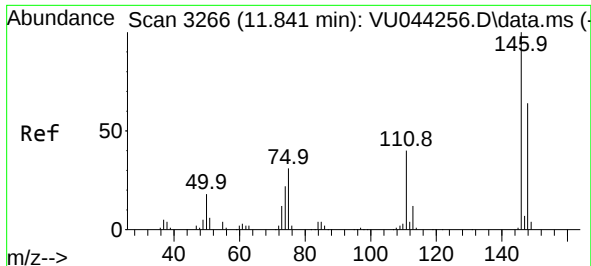
Tgt Ion:105 Resp: 121994
Ion Ratio Lower Upper
105 100
120 45.7 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 0.330 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

Tgt Ion:146 Resp: 7794
Ion Ratio Lower Upper
146 100
111 43.0 29.8 55.3
148 66.3 45.8 85.2

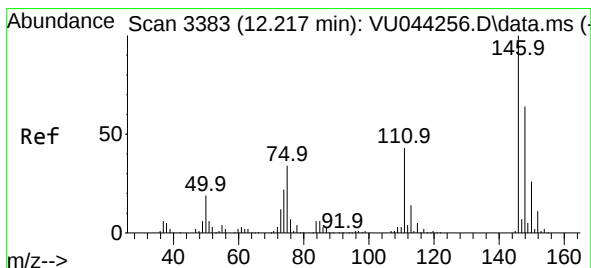
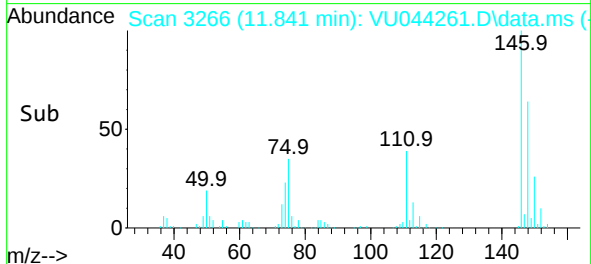
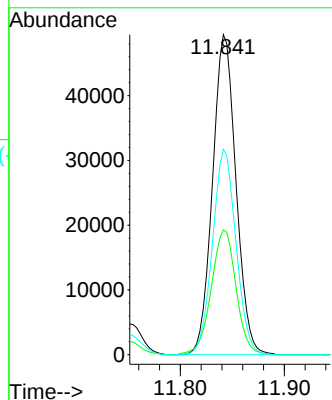
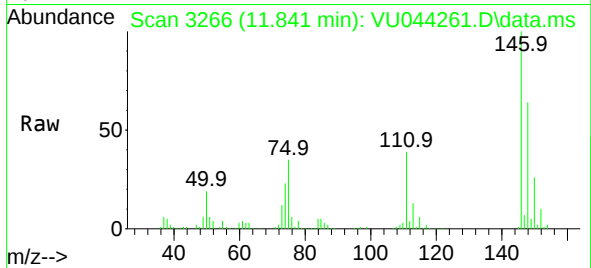




#65
1,4-Dichlorobenzene
Concen: 3.254 ug/L
RT: 11.841 min Scan# 3266
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

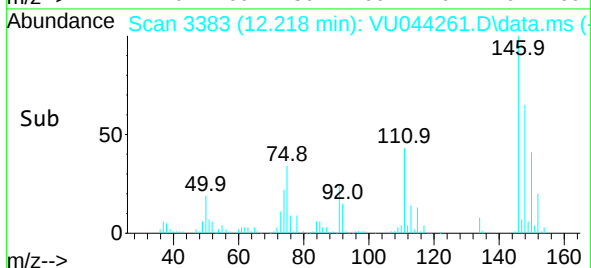
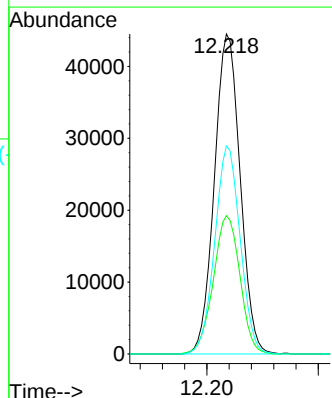
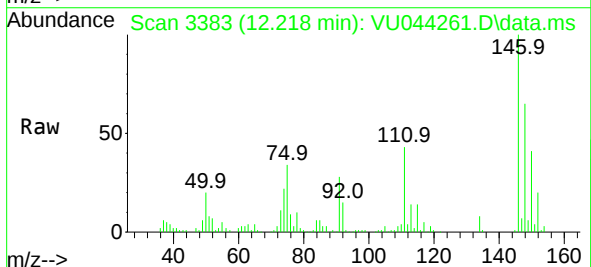
Instrument :
MSVOA_U
ClientSampleId :

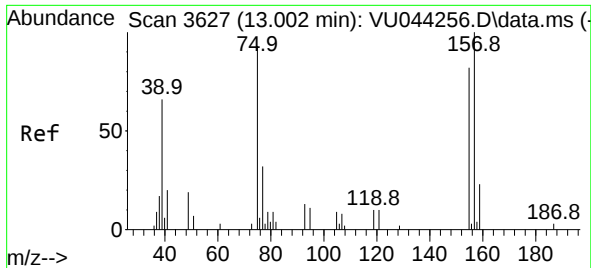
Tgt Ion:146 Resp: 77472
Ion Ratio Lower Upper
146 100
111 39.0 28.2 52.4
148 64.2 45.1 83.9



#67
1,2-Dichlorobenzene
Concen: 3.223 ug/L
RT: 12.218 min Scan# 3383
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

Tgt Ion:146 Resp: 71563
Ion Ratio Lower Upper
146 100
111 43.2 35.0 52.6
148 65.0 51.2 76.8

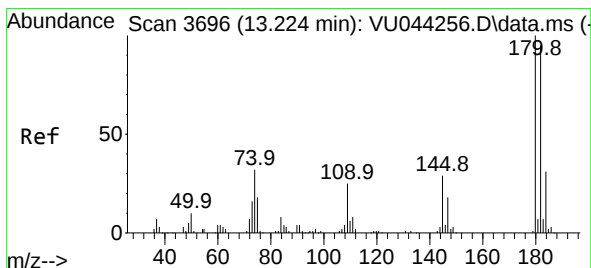
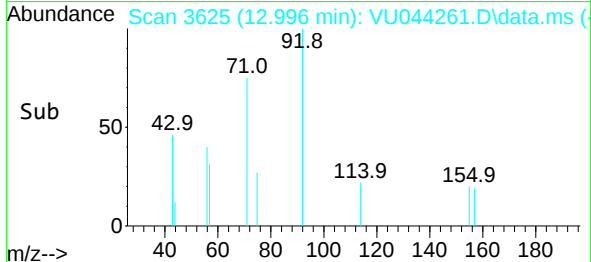
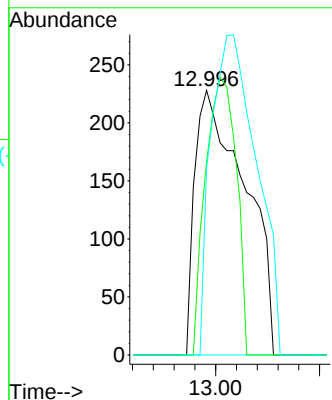
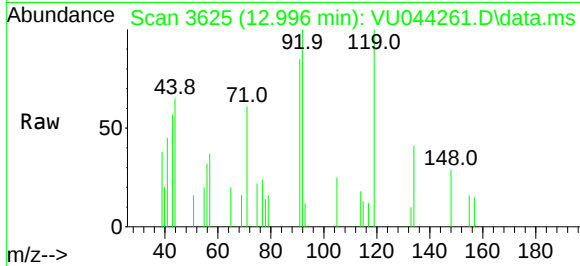




#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.188 ug/L
 RT: 12.996 min Scan# 3625
 Delta R.T. -0.006 min
 Lab File: VU044261.D
 Acq: 30 Jun 2021 14:46

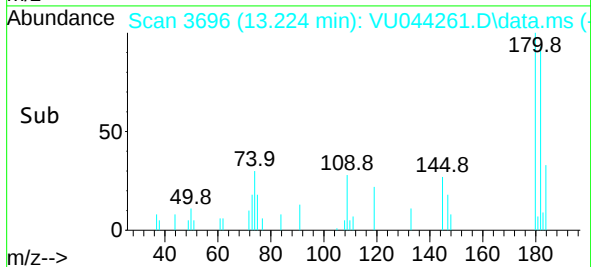
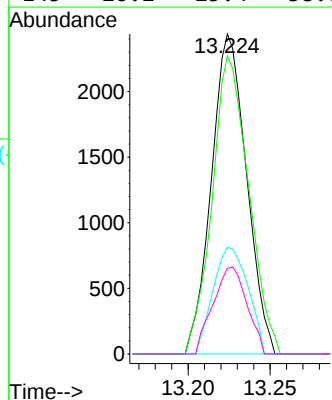
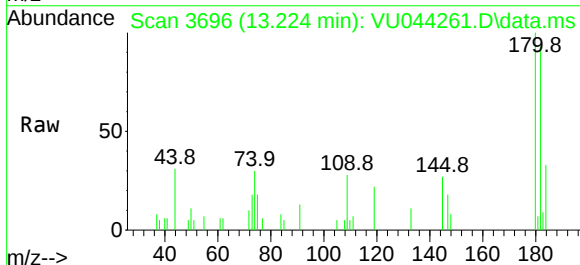
Instrument :
 MSVOA_U
 ClientSampled :

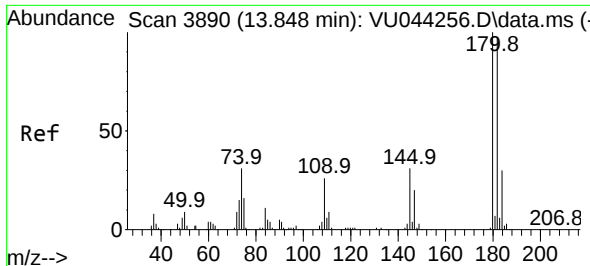
Tgt Ion: 75 Resp: 382
 Ion Ratio Lower Upper
 75 100
 155 73.2 59.9 89.9
 157 70.6 79.3 118.9#



#69
 1,3,5-Trichlorobenzene
 Concen: 0.201 ug/L
 RT: 13.224 min Scan# 3696
 Delta R.T. 0.000 min
 Lab File: VU044261.D
 Acq: 30 Jun 2021 14:46

Tgt Ion:180 Resp: 3618
 Ion Ratio Lower Upper
 180 100
 182 96.7 75.8 113.6
 184 33.3 23.8 35.8
 145 26.2 25.4 38.0

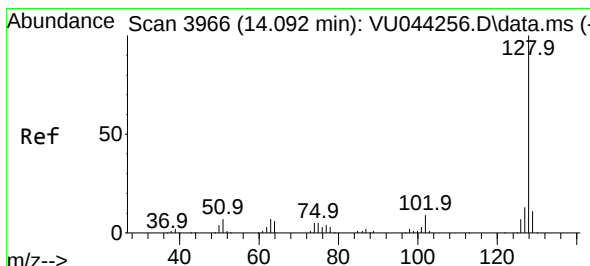
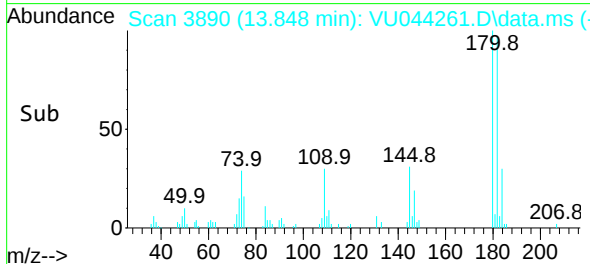
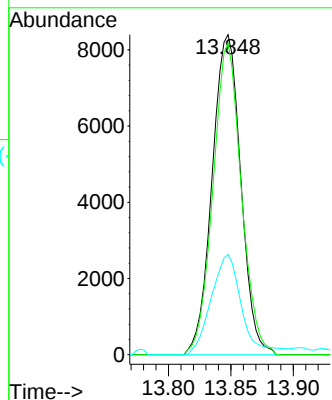
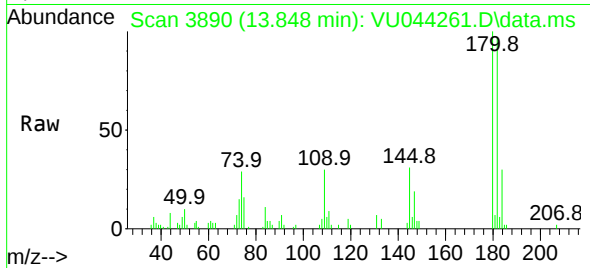




#70
1,2,4-trichlorobenzene
Concen: 0.881 ug/L
RT: 13.848 min Scan# 3890
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

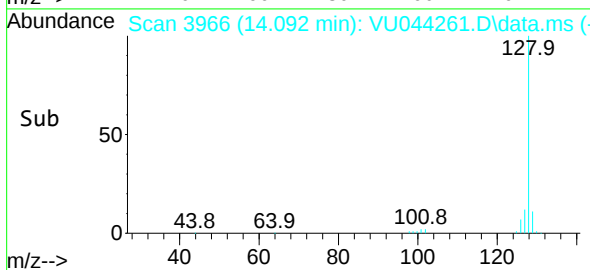
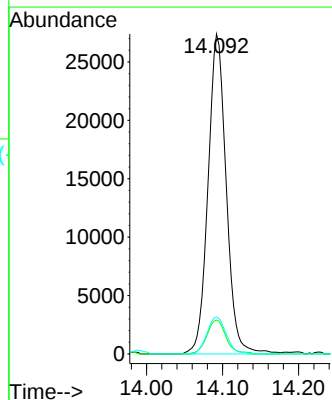
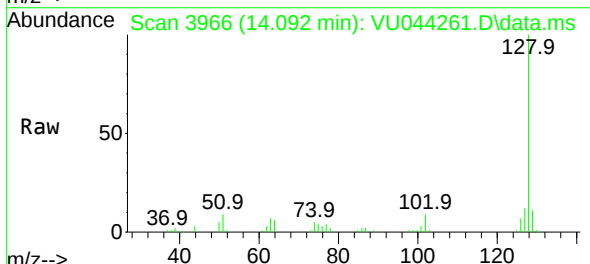
Instrument :
MSVOA_U
ClientSampled :

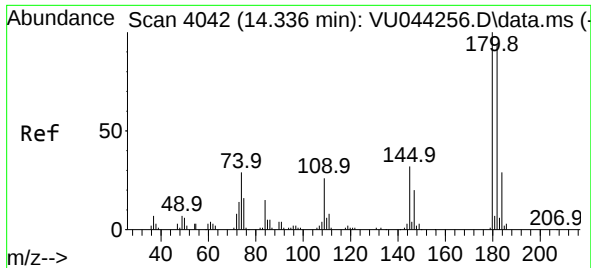
Tgt Ion:180 Resp: 13432
Ion Ratio Lower Upper
180 100
182 96.0 75.7 113.5
145 33.6 25.6 38.4



#71
Naphthalene
Concen: 1.654 ug/L
RT: 14.092 min Scan# 3966
Delta R.T. 0.000 min
Lab File: VU044261.D
Acq: 30 Jun 2021 14:46

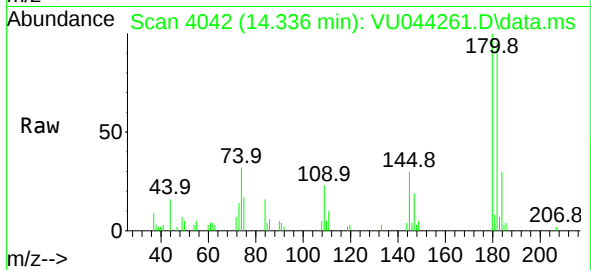
Tgt Ion:128 Resp: 45620
Ion Ratio Lower Upper
128 100
129 11.1 8.9 13.3
127 12.1 10.3 15.5





#72
 1,2,3-Trichlorobenzene
 Concen: 0.637 ug/L
 RT: 14.336 min Scan# 4042
 Delta R.T. 0.000 min
 Lab File: VU044261.D
 Acq: 30 Jun 2021 14:46

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.2	76.4	114.6
145	34.3	26.5	39.7

