

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120321\
 Data File : VU046071.D
 Acq On : 03 Dec 2021 14:13
 Operator : SY/MD
 Sample : M4870-09DL 10X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 04 03:07:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	236888	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	235050	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	125391	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	67789	34.739	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	69.480%
7) Chloroethane-d5	1.916	69	59223	39.528	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.060%
11) 1,1-Dichloroethene-d2	2.571	63	101648	29.017	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	58.040%#
21) 2-Butanone-d5	4.639	46	152098	98.049	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.050%
24) Chloroform-d	5.067	84	142353	43.684	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.360%
26) 1,2-Dichloroethane-d4	5.706	65	99144	45.335	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.660%
32) Benzene-d6	5.732	84	306339	45.471	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.940%
36) 1,2-Dichloropropane-d6	6.693	67	99899	47.847	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.700%
41) Toluene-d8	7.902	98	273538	44.594	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.180%
43) trans-1,3-Dichloroprop...	8.182	79	46081	45.720	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.440%
47) 2-Hexanone-d5	8.636	63	102964	104.009	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.010%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	152470	48.153	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.300%
66) 1,2-Dichlorobenzene-d4	12.195	152	118626	49.124	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.240%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	978	0.421	ug/L #	2
10) 1,1,2-Trichloro-1,2,2-...	2.571	101	965	0.560	ug/L #	21
12) 1,1-Dichloroethene	2.571	96	721	0.440	ug/L #	1
13) Acetone	2.661	43	8232	4.246	ug/L	77
20) cis-1,2-Dichloroethene	4.671	96	73894	39.288	ug/L	97
22) 2-Butanone	4.722	43	2728	1.293	ug/L	91
27) 1,2-Dichloroethane	5.796	62	2499	0.962	ug/L #	87
33) Benzene	5.777	78	45283	6.365	ug/L	100
34) Trichloroethene	6.546	95	20058	10.702	ug/L	97
37) 1,2-Dichloropropane	6.693	63	10391	5.576	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	2610	0.921	ug/L #	59
40) 4-Methyl-2-pentanone	7.796	43	4033	1.473	ug/L	100
42) Toluene	7.973	91	169823	22.247	ug/L	99
44) trans-1,3-Dichloropropene	8.182	75	1936	0.695	ug/L #	68
46) Tetrachloroethene	8.555	164	4095	2.973	ug/L	94
49) Dibromochloromethane	8.555	129	4232	2.156	ug/L #	10
51) Chlorobenzene	9.449	112	6493	1.315	ug/L	97
52) Ethylbenzene	9.571	91	114215	13.903	ug/L	98
53) m,p-Xylene	9.693	106	152835	47.703	ug/L	96

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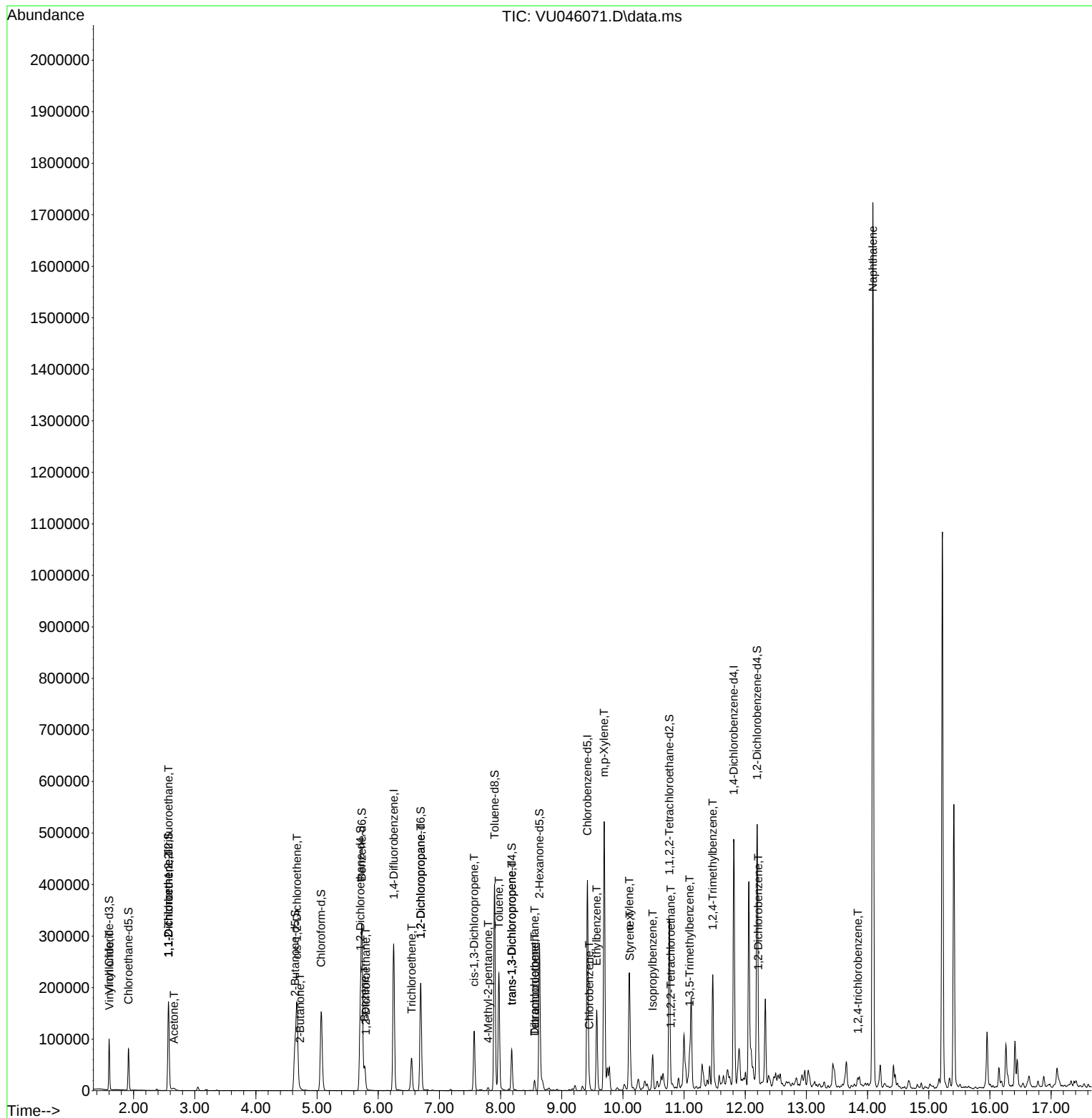
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	10.102	106	56721	18.245	ug/L	98
55) Styrene	10.115	104	25845	4.869	ug/L	79
57) 1,1,2,2-Tetrachloroethane	10.783	83	4324	1.349	ug/L #	92
61) Isopropylbenzene	10.488	105	46035	5.643	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	32607	4.795	ug/L	96
63) 1,2,4-Trimethylbenzene	11.468	105	114672	16.855	ug/L	100
67) 1,2-Dichlorobenzene	12.214	146	14133	3.621	ug/L	96
70) 1,2,4-trichlorobenzene	13.841	180	2692	1.074	ug/L #	90
71) Naphthalene	14.089	128	1352824	155.147	ug/L	100

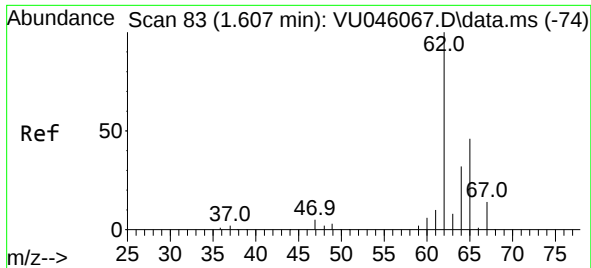
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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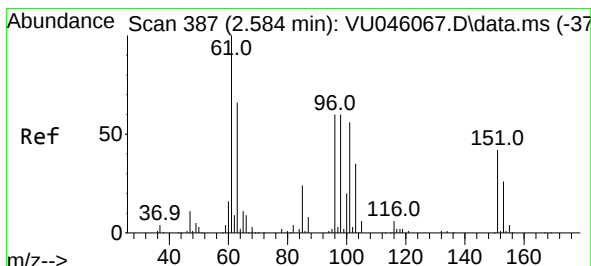
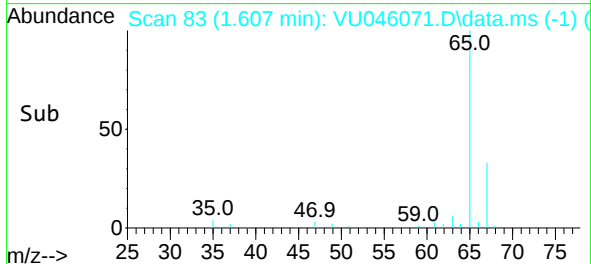
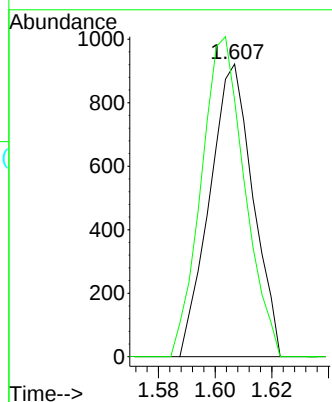
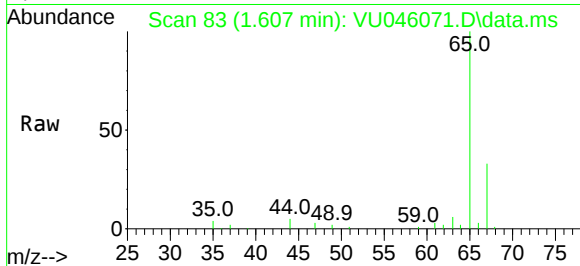




#5
 Vinyl chloride
 Concen: 0.421 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU046071.D
 Acq: 03 Dec 2021 14:13

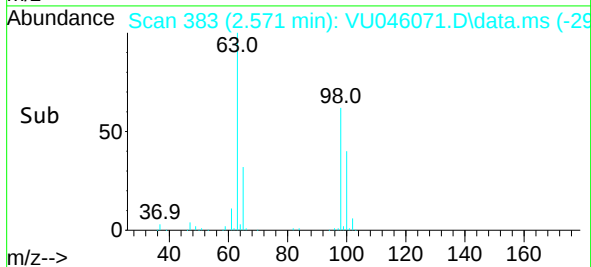
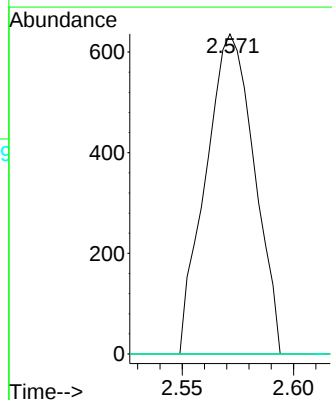
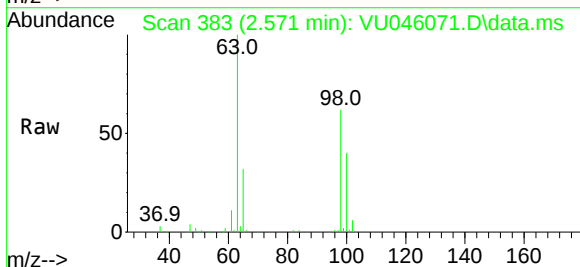
Instrument :
 MSVOA_U
 ClientSampleId :

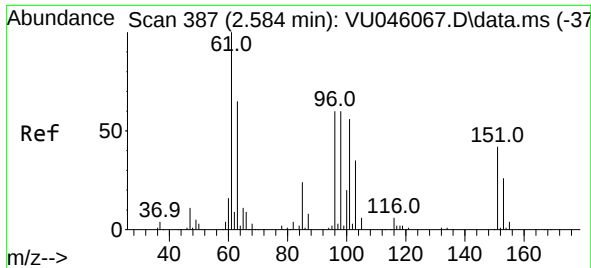
Tgt Ion: 62 Resp: 978
 Ion Ratio Lower Upper
 62 100
 64 87.7 22.9 42.5#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.560 ug/L
 RT: 2.571 min Scan# 383
 Delta R.T. -0.016 min
 Lab File: VU046071.D
 Acq: 03 Dec 2021 14:13

Tgt Ion: 101 Resp: 965
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.7 85.1#

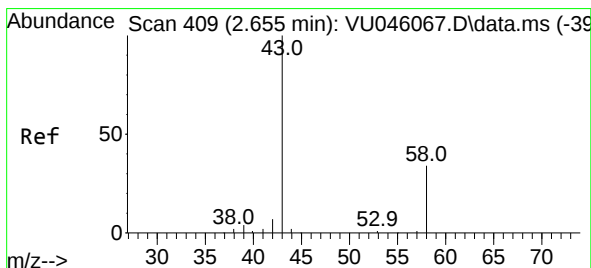
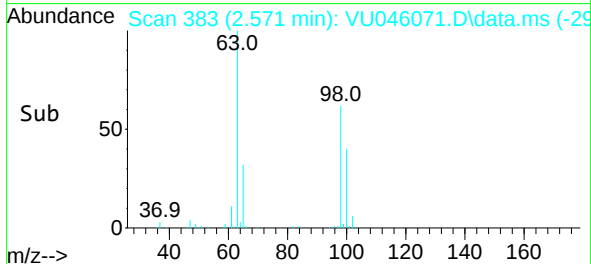
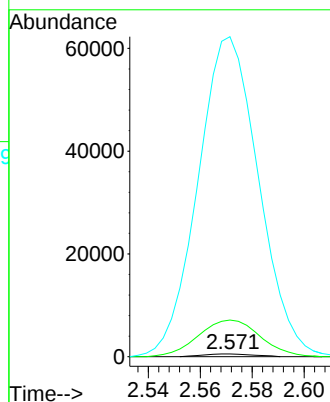
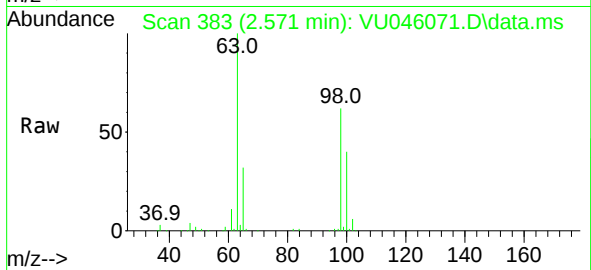




#12
1,1-Dichloroethene
Concen: 0.440 ug/L
RT: 2.571 min Scan# 311
Delta R.T. -0.013 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

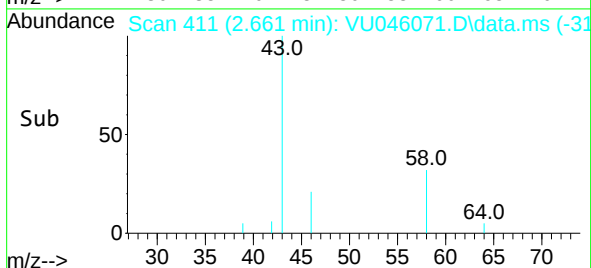
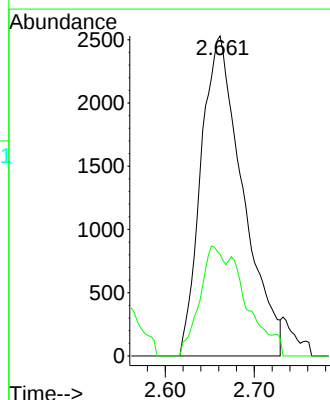
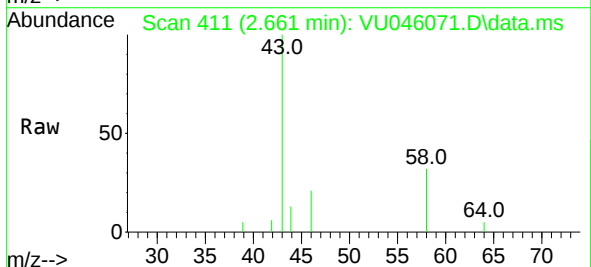
Instrument :
MSVOA_U
ClientSampleId :

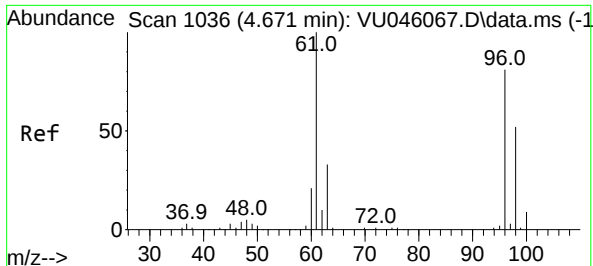
Tgt Ion: 96 Resp: 721
Ion Ratio Lower Upper
96 100
61 1310.8 118.6 220.2#
63 11450.0 93.0 172.8#



#13
Acetone
Concen: 4.246 ug/L
RT: 2.661 min Scan# 411
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion: 43 Resp: 8232
Ion Ratio Lower Upper
43 100
58 20.2 0.0 66.8





#20

cis-1,2-Dichloroethene

Concen: 39.288 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VU046071.D

Acq: 03 Dec 2021 14:13

Instrument :

MSVOA_U

ClientSampleId :

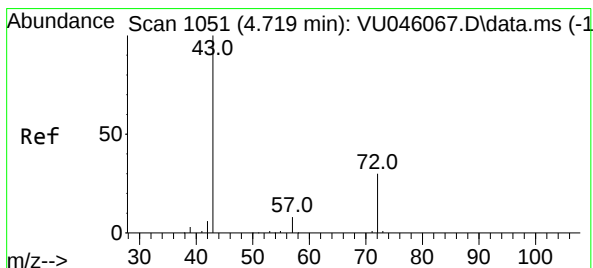
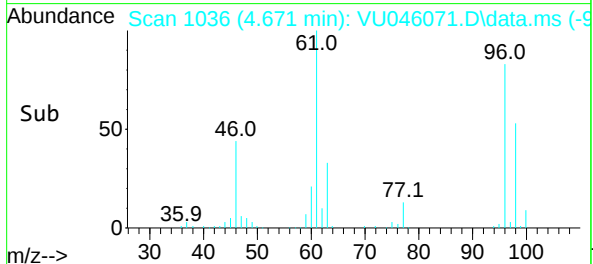
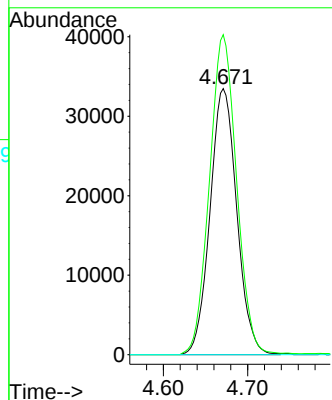
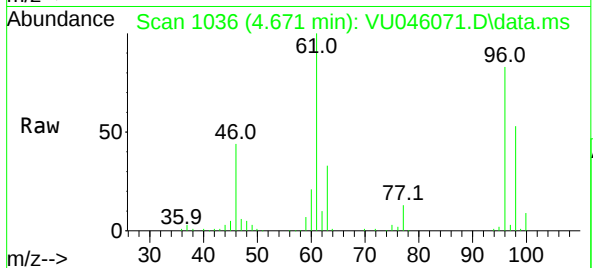
Tgt Ion: 96 Resp: 73894

Ion Ratio Lower Upper

96 100

61 120.2 86.8 161.2

68 0.0 0.0 0.0



#22

2-Butanone

Concen: 1.293 ug/L

RT: 4.722 min Scan# 1052

Delta R.T. -0.000 min

Lab File: VU046071.D

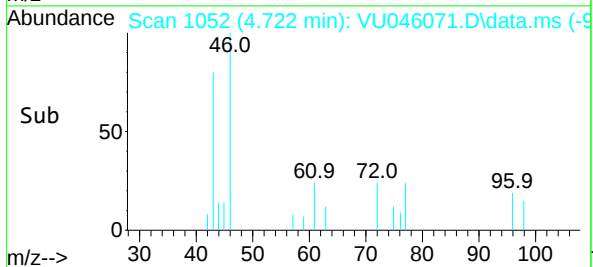
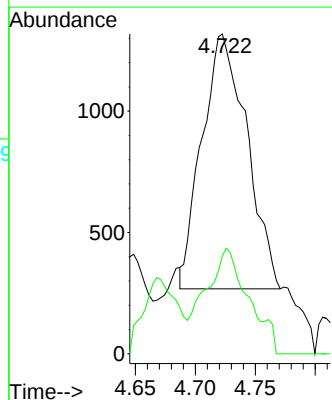
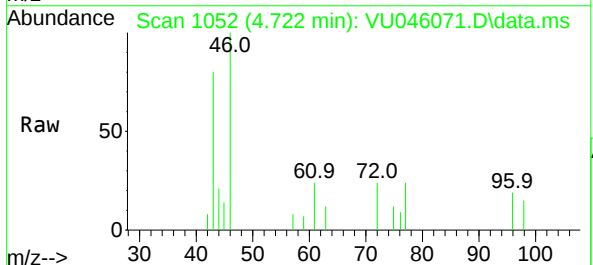
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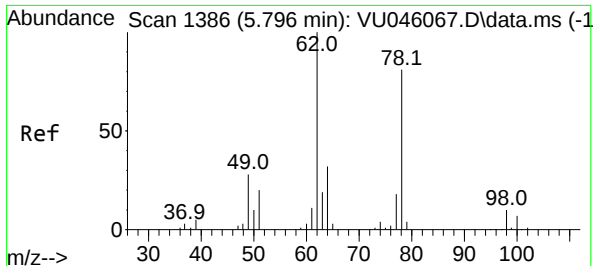
Tgt Ion: 43 Resp: 2728

Ion Ratio Lower Upper

43 100

72 24.2 14.5 43.6





#27

1,2-Dichloroethane

Concen: 0.962 ug/L

RT: 5.796 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU046071.D

Acq: 03 Dec 2021 14:13

Instrument :

MSVOA_U

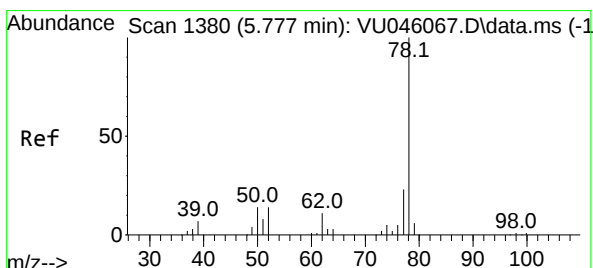
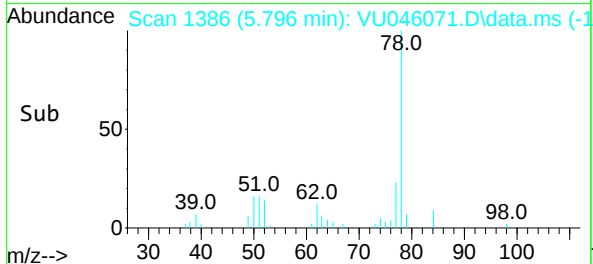
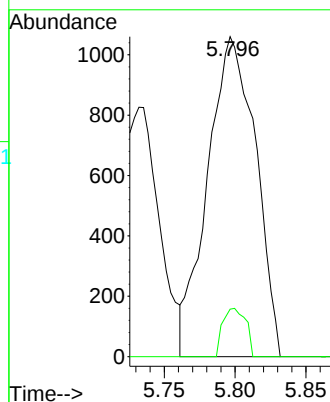
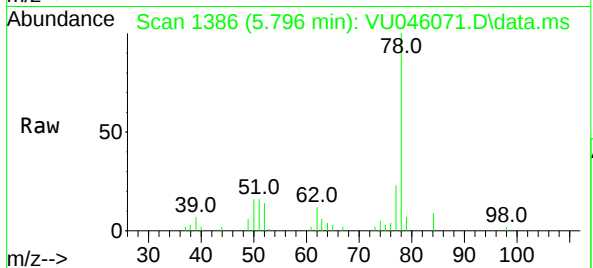
ClientSampleId :

Tgt Ion: 62 Resp: 2499

Ion Ratio Lower Upper

62 100

98 14.8 7.9 11.9#



#33

Benzene

Concen: 6.365 ug/L

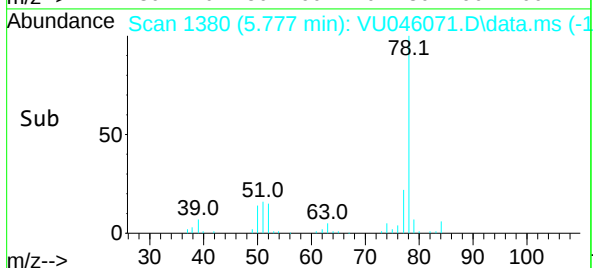
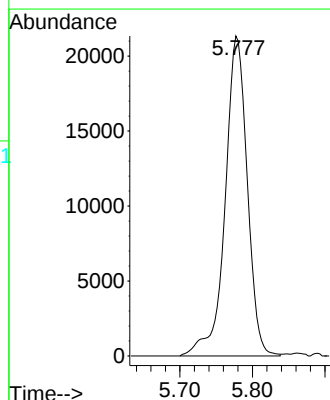
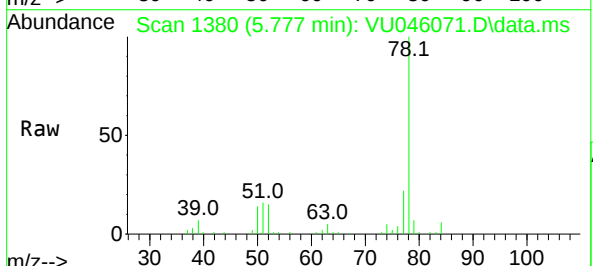
RT: 5.777 min Scan# 1380

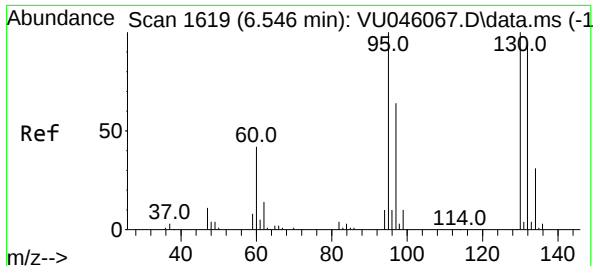
Delta R.T. -0.003 min

Lab File: VU046071.D

Acq: 03 Dec 2021 14:13

Tgt Ion: 78 Resp: 45283



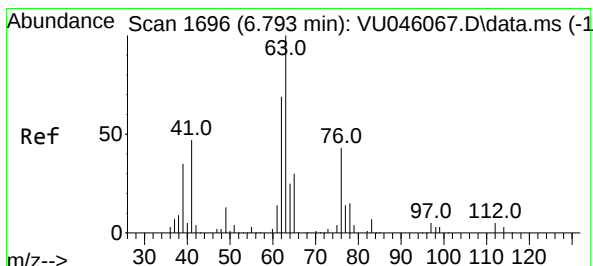
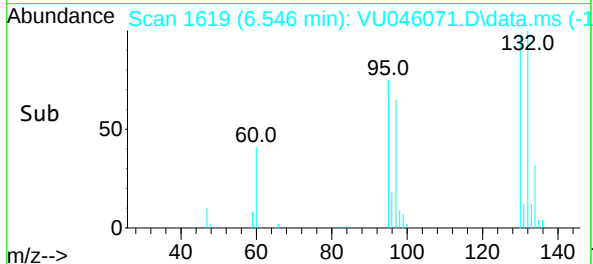
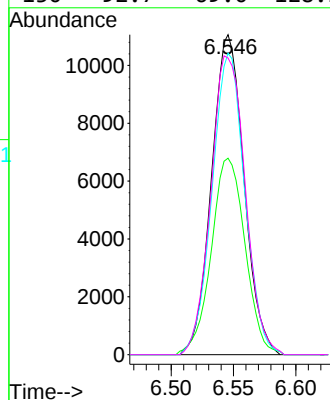
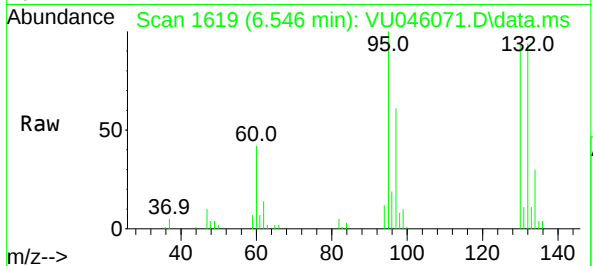


#34
Trichloroethene
Concen: 10.702 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 95 Resp: 20058

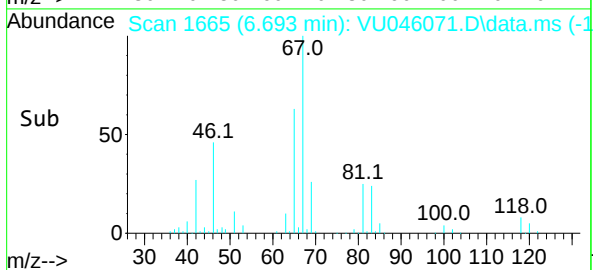
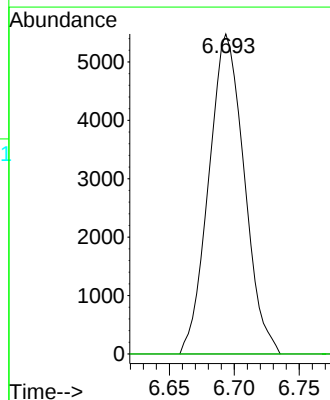
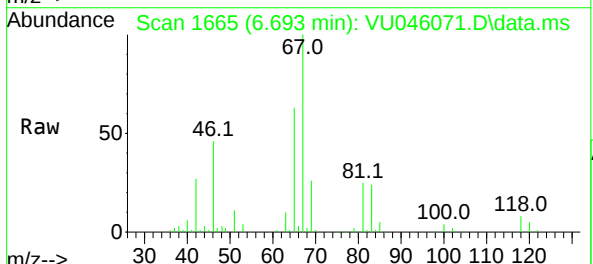
Ion	Ratio	Lower	Upper
95	100		
97	61.4	44.1	81.9
132	94.2	66.8	124.0
130	92.7	69.0	128.1

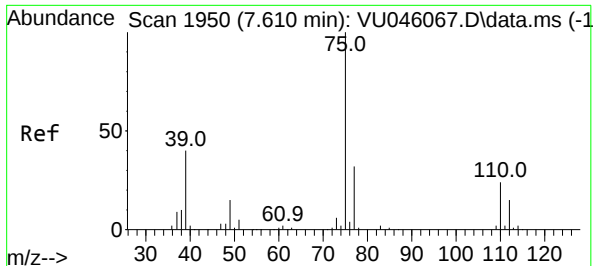


#37
1,2-Dichloropropane
Concen: 5.576 ug/L
RT: 6.693 min Scan# 1665
Delta R.T. -0.100 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion: 63 Resp: 10391

Ion	Ratio	Lower	Upper
63	100		
112	0.0	3.8	5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.921 ug/L

RT: 7.568 min Scan# 1950

Delta R.T. -0.042 min

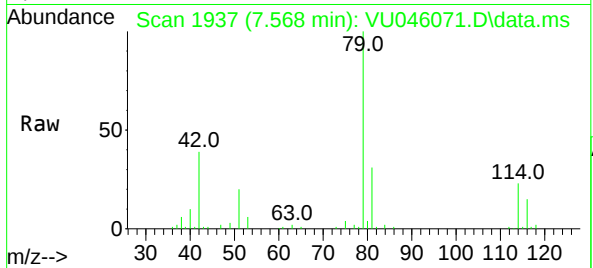
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Acq: 03 Dec 2021 14:13

Instrument :

MSVOA_U

ClientSampleId :

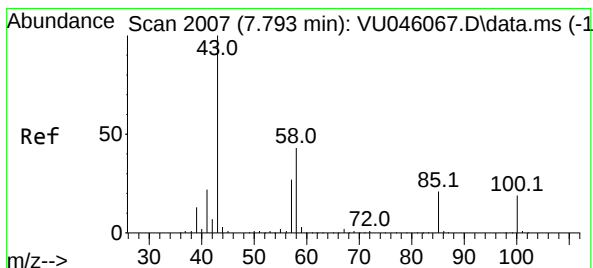
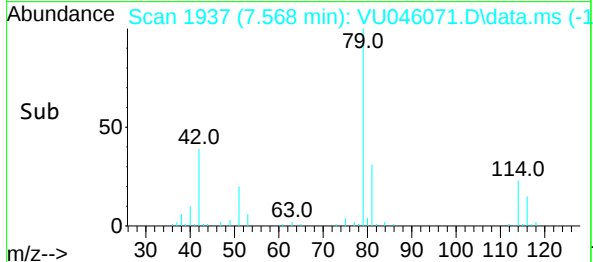
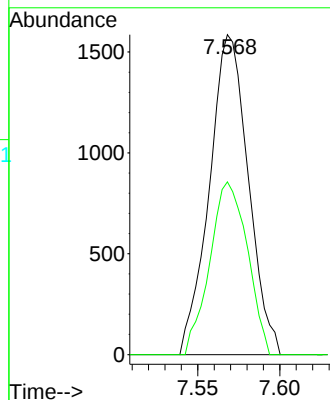


Tgt Ion: 75 Resp: 2610

Ion Ratio Lower Upper

75 100

77 54.0 21.8 40.6#



#40

4-Methyl-2-pentanone

Concen: 1.473 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. -0.000 min

Lab File: VU046071.D

Acq: 03 Dec 2021 14:13

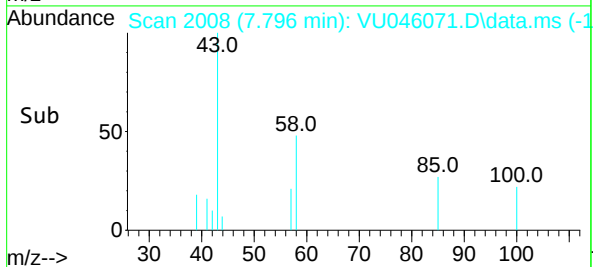
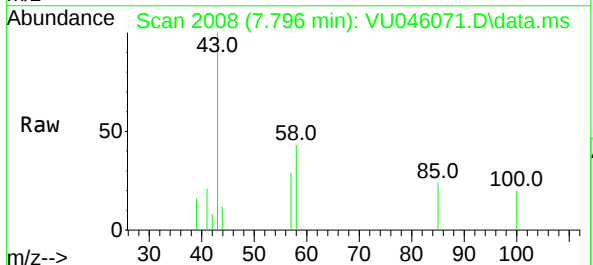
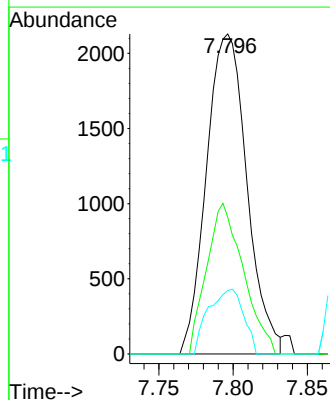
Tgt Ion: 43 Resp: 4033

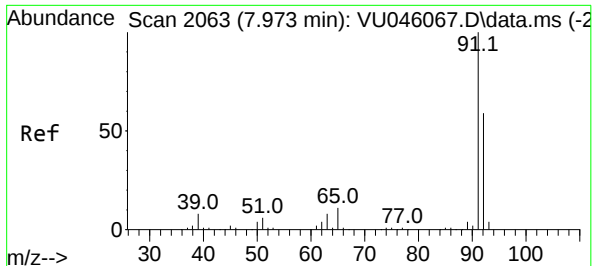
Ion Ratio Lower Upper

43 100

58 42.7 34.2 51.4

100 17.5 14.5 21.7

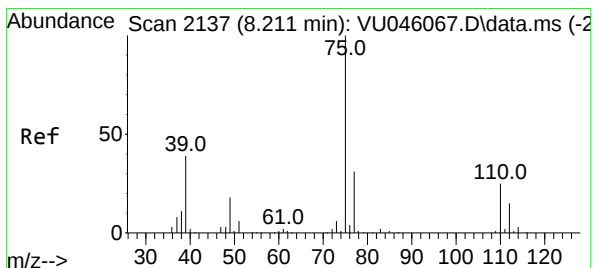
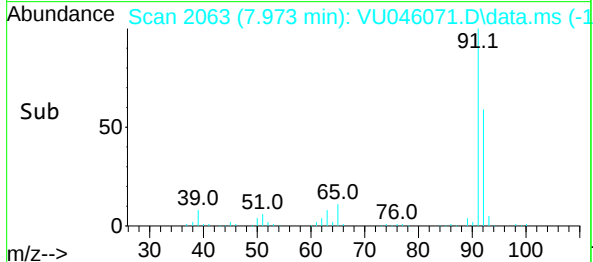
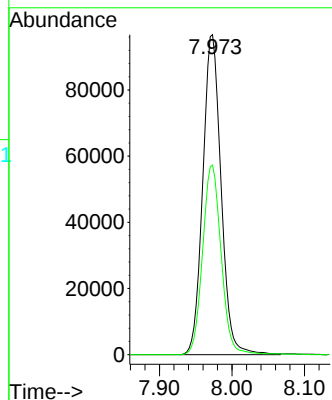
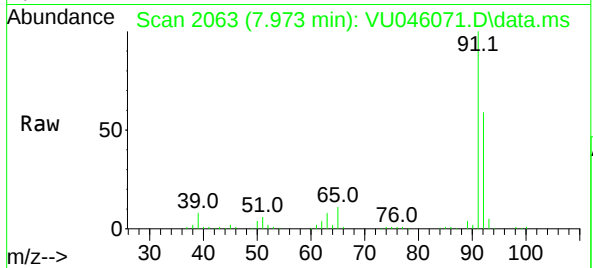




#42
Toluene
Concen: 22.247 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

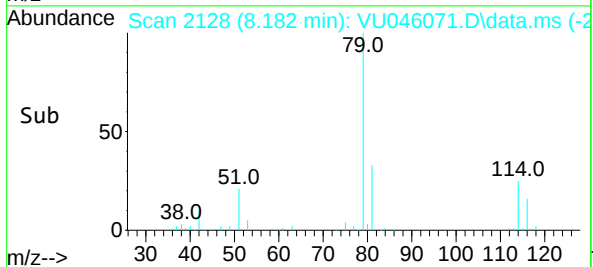
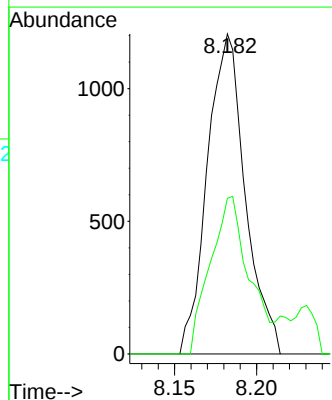
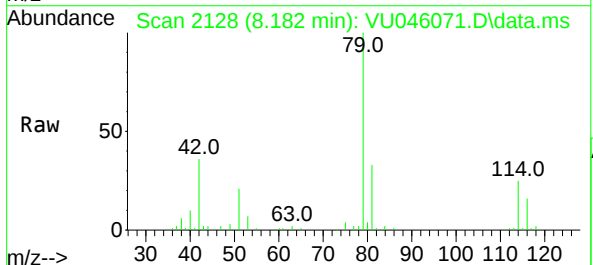
Instrument :
MSVOA_U
ClientSampleId :

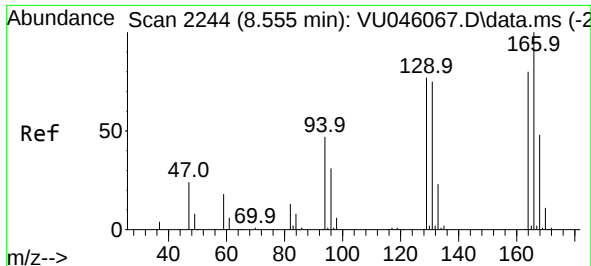
Tgt Ion: 91 Resp: 169823
Ion Ratio Lower Upper
91 100
92 59.3 41.9 77.7



#44
trans-1,3-Dichloropropene
Concen: 0.695 ug/L
RT: 8.182 min Scan# 2128
Delta R.T. -0.032 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

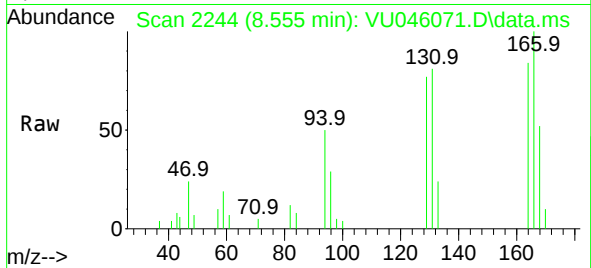
Tgt Ion: 75 Resp: 1936
Ion Ratio Lower Upper
75 100
77 48.7 21.7 40.3#



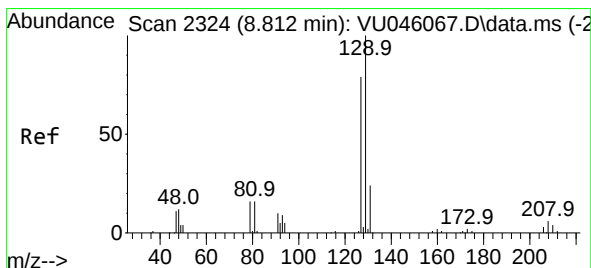
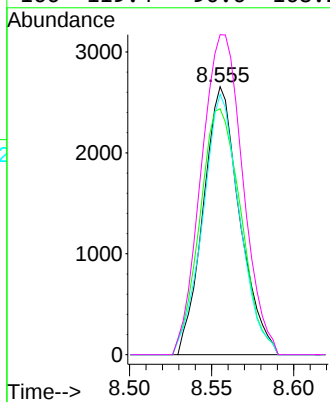
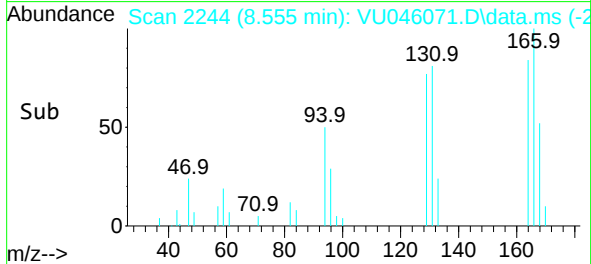


#46
Tetrachloroethene
Concen: 2.973 ug/L
RT: 8.555 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Instrument :
MSVOA_U
ClientSampleId :

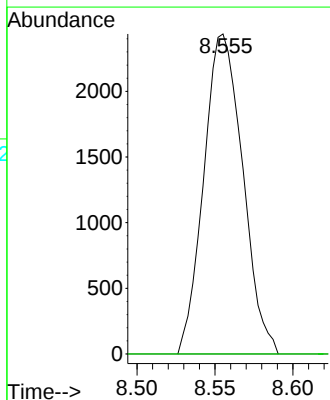
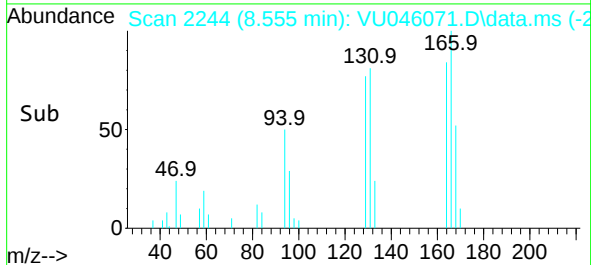
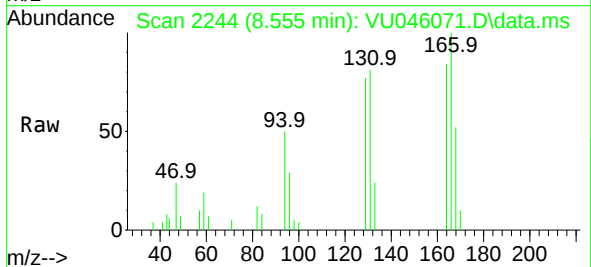


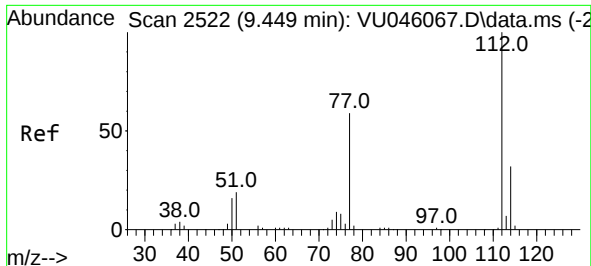
Tgt Ion:164 Resp: 4095
Ion Ratio Lower Upper
164 100
129 91.8 71.1 132.1
131 97.1 67.8 126.0
166 119.4 90.6 168.2



#49
Dibromochloromethane
Concen: 2.156 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.257 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

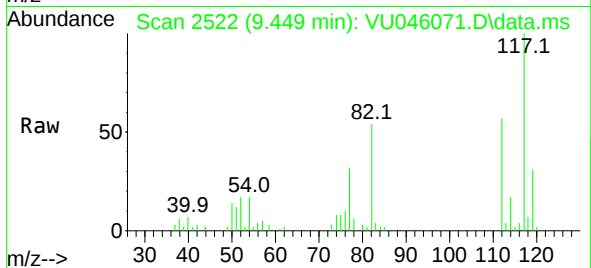
Tgt Ion:129 Resp: 4232
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.4#



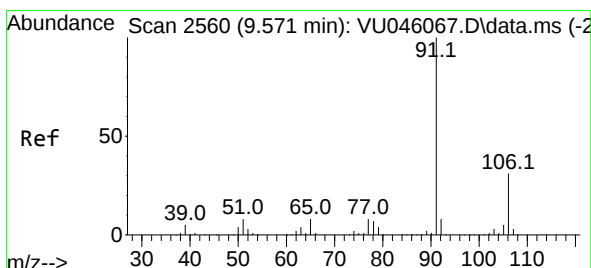
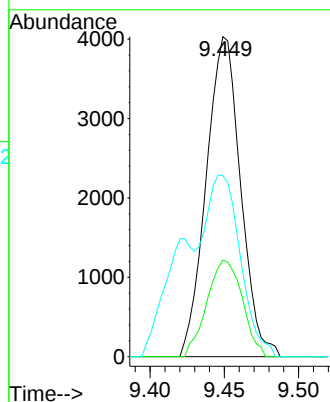
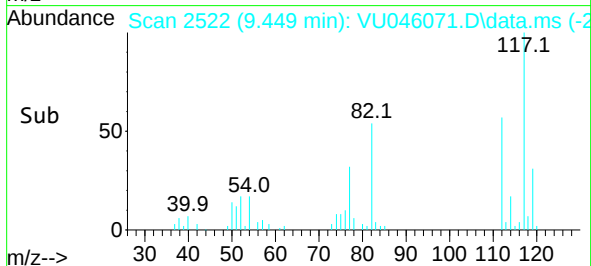


#51
Chlorobenzene
Concen: 1.315 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Instrument :
MSVOA_U
ClientSampleId :

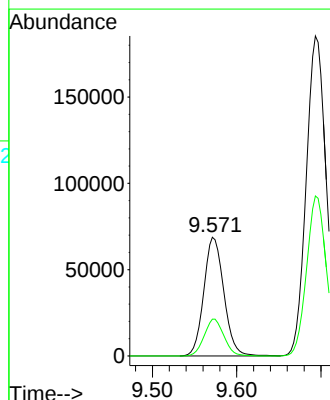
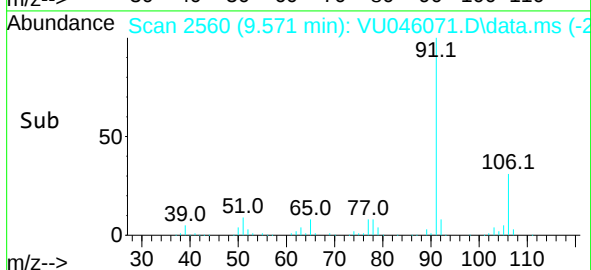
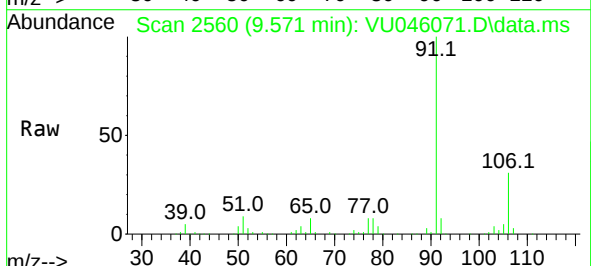


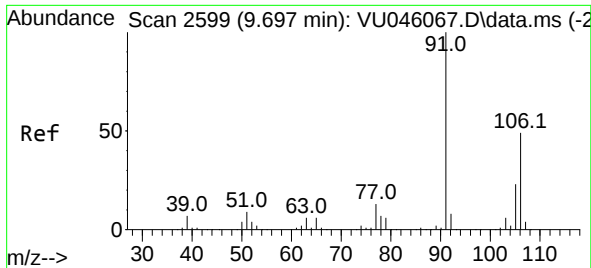
Tgt Ion:112 Resp: 6493
Ion Ratio Lower Upper
112 100
114 30.2 22.2 41.2
77 56.6 47.4 71.0



#52
Ethylbenzene
Concen: 13.903 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion: 91 Resp: 114215
Ion Ratio Lower Upper
91 100
106 31.0 21.1 39.3

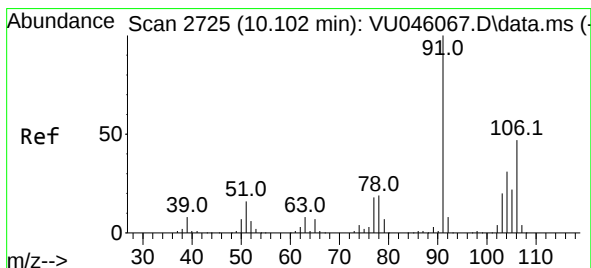
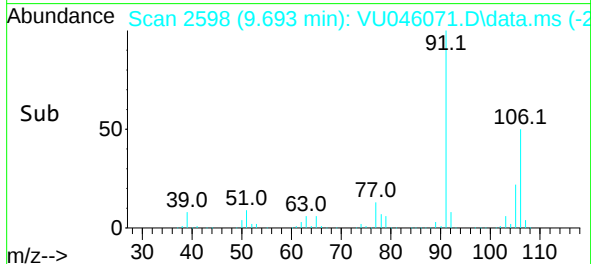
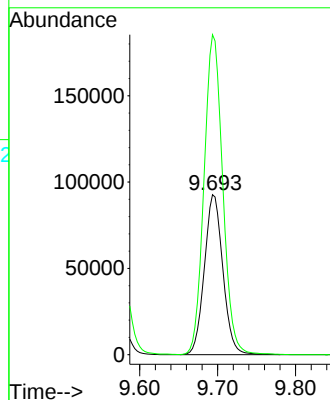
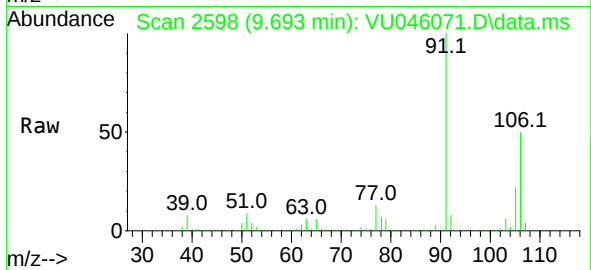




#53
m,p-Xylene
Concen: 47.703 ug/L
RT: 9.693 min Scan# 2599
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

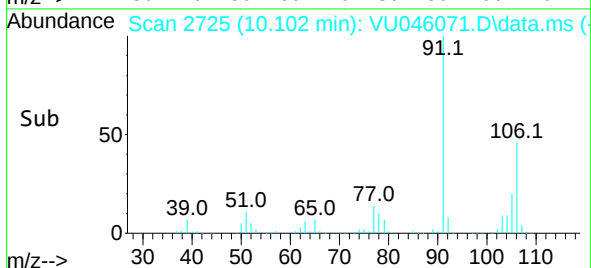
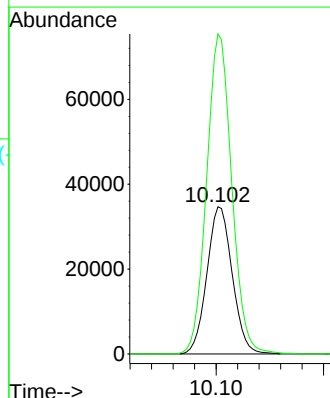
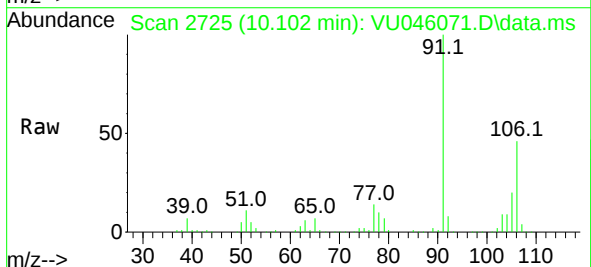
Instrument :
MSVOA_U
ClientSampleId :

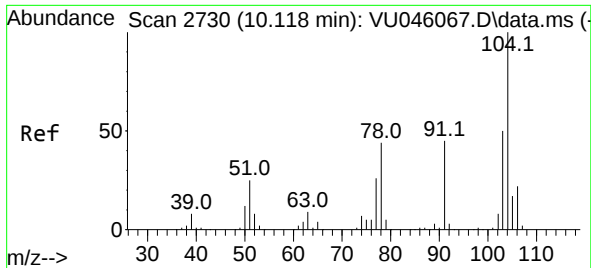
Tgt Ion:106 Resp: 152835
Ion Ratio Lower Upper
106 100
91 199.9 144.3 268.1



#54
o-xylene
Concen: 18.245 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion:106 Resp: 56721
Ion Ratio Lower Upper
106 100
91 217.3 154.2 286.4

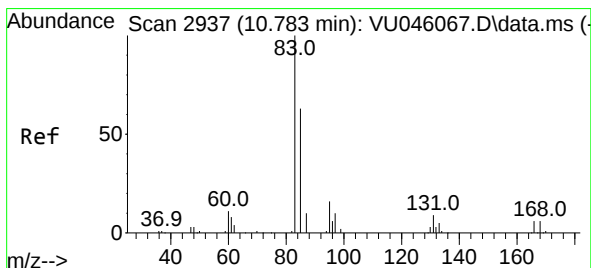
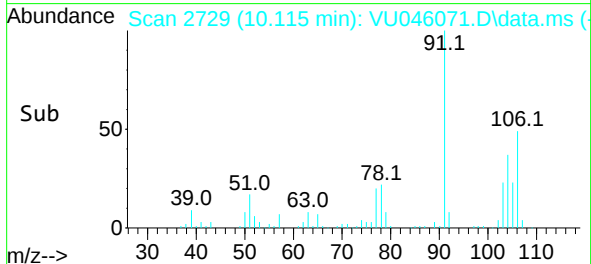
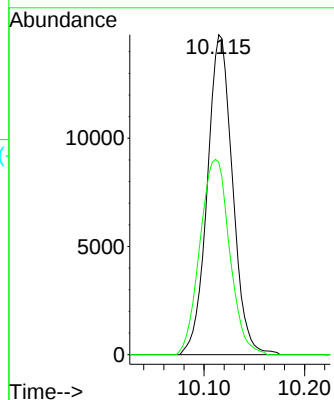
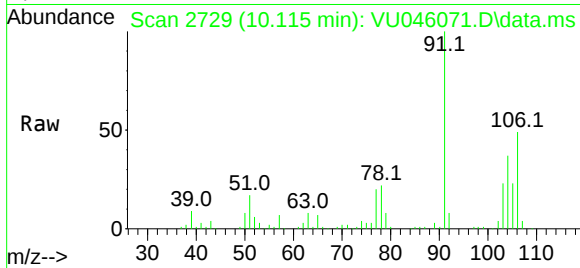




#55
Styrene
Concen: 4.869 ug/L
RT: 10.115 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

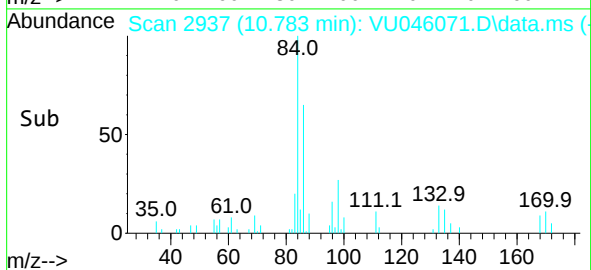
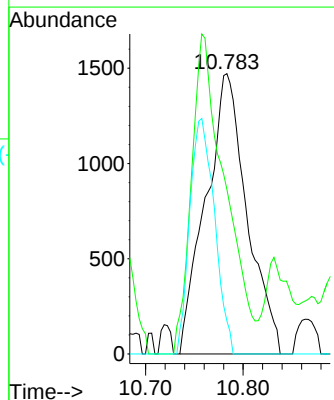
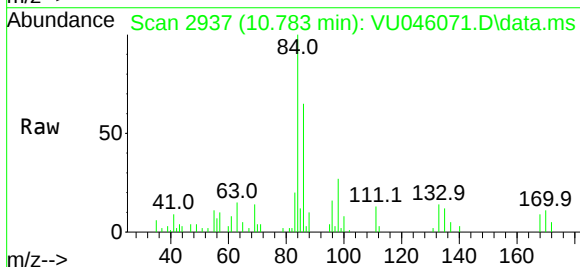
Instrument :
MSVOA_U
ClientSampleId :

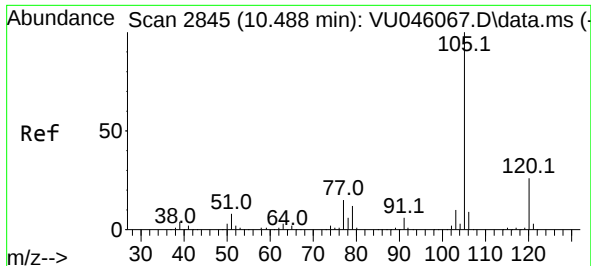
Tgt Ion:104 Resp: 25845
Ion Ratio Lower Upper
104 100
78 60.2 32.6 60.5



#57
1,1,2,2-Tetrachloroethane
Concen: 1.349 ug/L
RT: 10.783 min Scan# 2937
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion: 83 Resp: 4324
Ion Ratio Lower Upper
83 100
85 58.7 45.6 84.6
131 11.8 7.8 11.6#

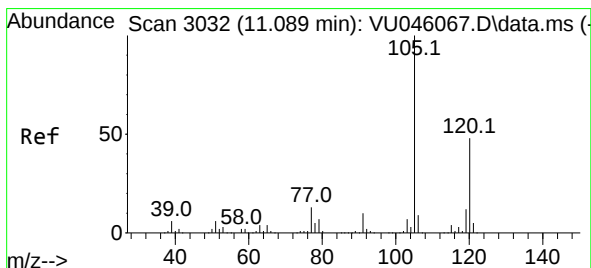
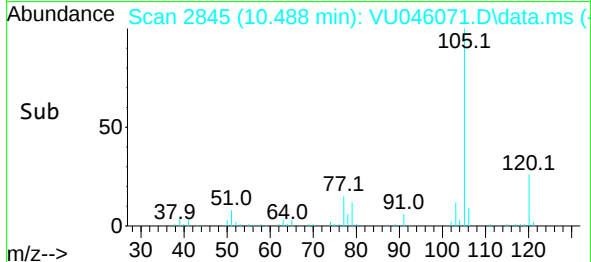
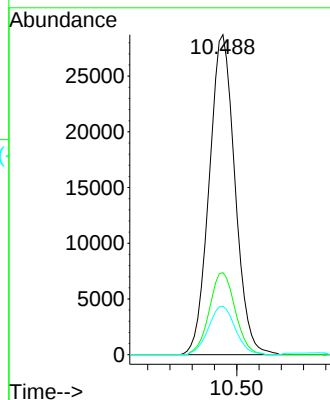
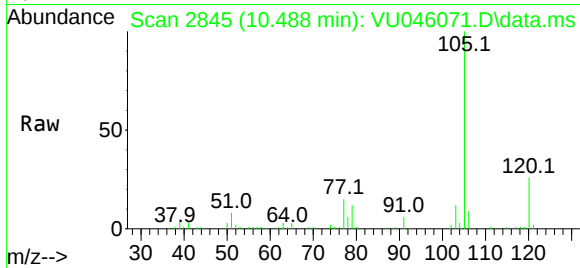




#61
Isopropylbenzene
Concen: 5.643 ug/L
RT: 10.488 min Scan# 2845
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

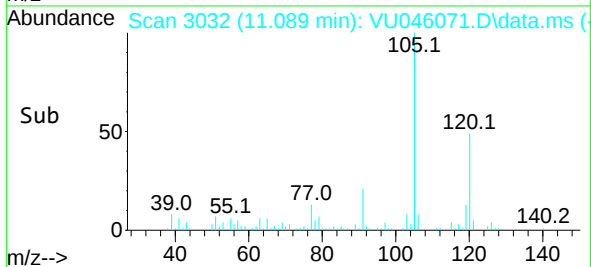
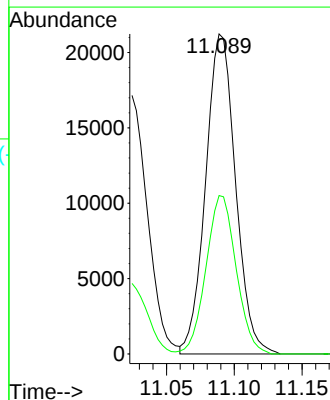
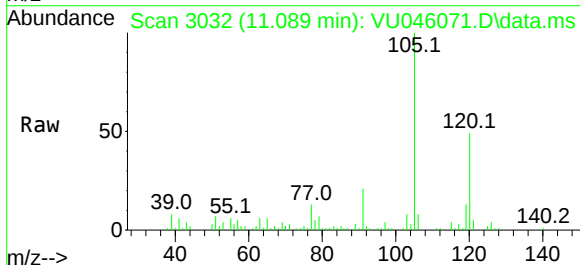
Instrument :
MSVOA_U
ClientSampleId :

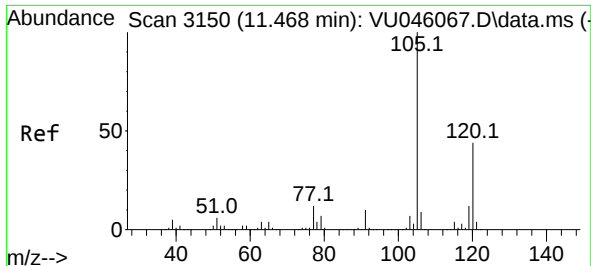
Tgt Ion:105 Resp: 46035
Ion Ratio Lower Upper
105 100
120 25.8 20.7 31.1
77 15.8 12.2 18.4



#62
1,3,5-Trimethylbenzene
Concen: 4.795 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion:105 Resp: 32607
Ion Ratio Lower Upper
105 100
120 49.9 37.8 56.6

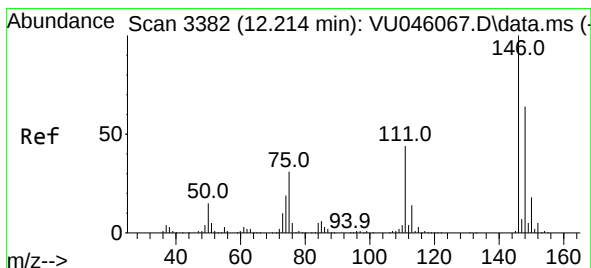
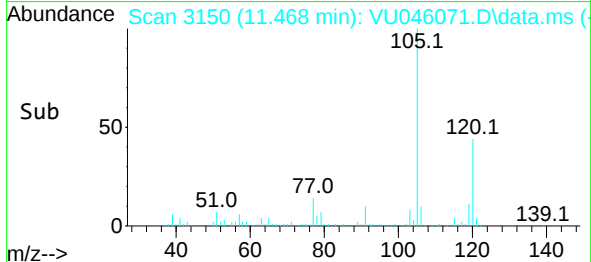
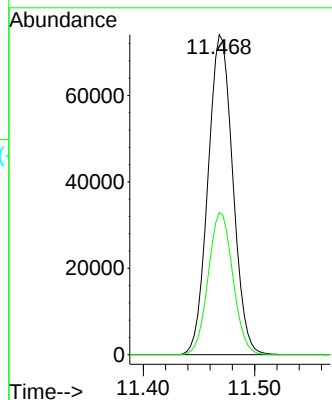
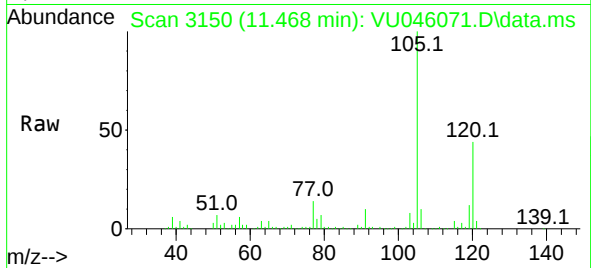




#63
1,2,4-Trimethylbenzene
Concen: 16.855 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. -0.003 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

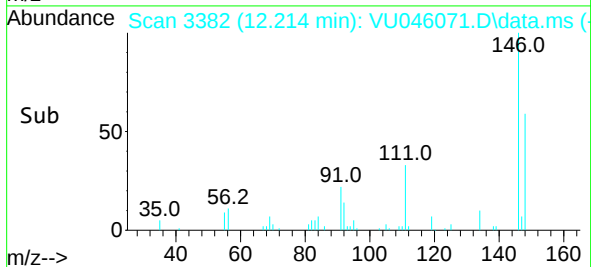
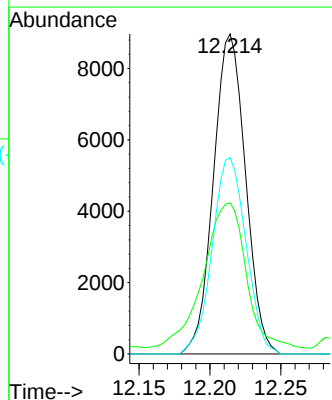
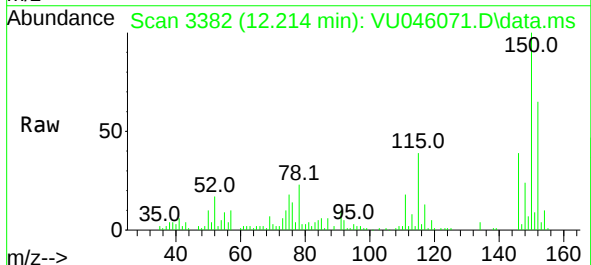
Instrument :
MSVOA_U
ClientSampleId :

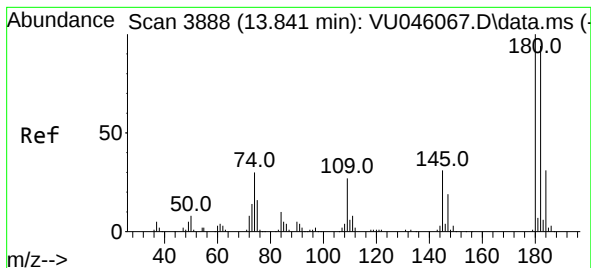
Tgt Ion:105 Resp: 114672
Ion Ratio Lower Upper
105 100
120 44.1 35.2 52.8



#67
1,2-Dichlorobenzene
Concen: 3.621 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. -0.000 min
Lab File: VU046071.D
Acq: 03 Dec 2021 14:13

Tgt Ion:146 Resp: 14133
Ion Ratio Lower Upper
146 100
111 47.2 35.7 53.5
148 61.4 51.2 76.8





#70

1,2,4-trichlorobenzene

Concen: 1.074 ug/L

RT: 13.841 min Scan# 3888

Delta R.T. -0.000 min

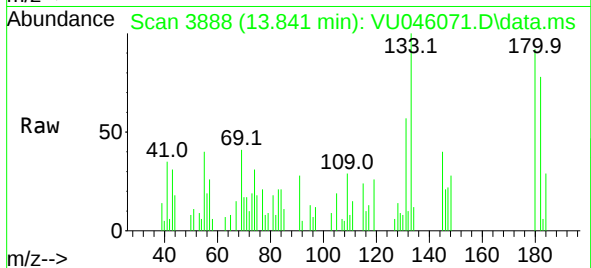
Lab File: VU046071.D

Acq: 03 Dec 2021 14:13

Instrument :

MSVOA_U

ClientSampleId :



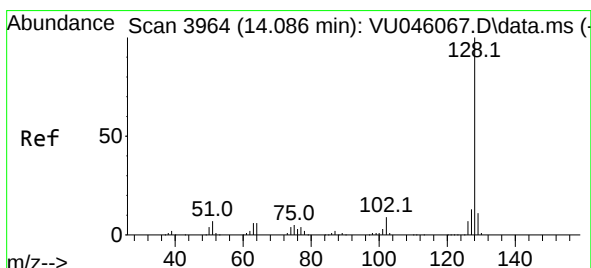
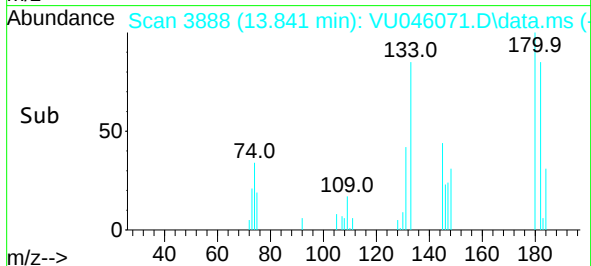
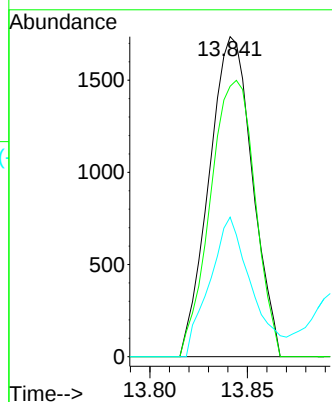
Tgt Ion:180 Resp: 2692

Ion Ratio Lower Upper

180 100

182 88.9 76.7 115.1

145 42.3 26.0 39.0#



#71

Naphthalene

Concen: 155.147 ug/L

RT: 14.089 min Scan# 3965

Delta R.T. -0.000 min

Lab File: VU046071.D

Acq: 03 Dec 2021 14:13

Tgt Ion:128 Resp: 1352824

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

129 10.9 8.6 13.0

