

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120221\
 Data File : VU046064.D
 Acq On : 02 Dec 2021 19:42
 Operator : SY/MD
 Sample : BLK
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 03 05:14:23 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	6.260	114	984	50.000	ug/L	# 0.00
28) Chlorobenzene-d5	9.417	117	1554	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	1971	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	165	20.356	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	40.720%#
7) Chloroethane-d5	1.906	69	83	13.337	ug/L	-0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	26.680%#
11) 1,1-Dichloroethene-d2	2.568	63	223	15.325	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	30.660%#
21) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	100.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	0.000	84	0	0.000	ug/L	
Spiked Amount	50.000	Range	70 - 125	Recovery	=	0.000%#
26) 1,2-Dichloroethane-d4	5.710	65	393	43.262	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.520%
32) Benzene-d6	5.729	84	413	9.272	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	18.540%#
36) 1,2-Dichloropropane-d6	0.000	67	0	0.000	ug/L	
Spiked Amount	50.000	Range	70 - 120	Recovery	=	0.000%#
41) Toluene-d8	7.899	98	985	24.289	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	48.580%#
43) trans-1,3-Dichloroprop...	8.179	79	150	22.510	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	45.020%#
47) 2-Hexanone-d5	8.642	63	61	9.320	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	9.320%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	689	32.913	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	65.820%
66) 1,2-Dichlorobenzene-d4	12.198	152	1220	32.141	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	64.280%#
Target Compounds						
					Qvalue	
13) Acetone	2.655	43	163	20.241	ug/L	# 41
15) Methyl Acetate	2.671	43	96	10.226	ug/L	# 49
16) Methylene chloride	3.051	84	253	31.254	ug/L	# 64
20) cis-1,2-Dichloroethene	4.665	96	793	101.502	ug/L	86
33) Benzene	5.777	78	261	5.549	ug/L	100
34) Trichloroethene	6.539	95	260	20.984	ug/L	# 75
40) 4-Methyl-2-pentanone	7.793	43	62	3.425	ug/L	# 1
42) Toluene	7.970	91	2644	52.389	ug/L	88
51) Chlorobenzene	9.452	112	136	4.165	ug/L	# 29
52) Ethylbenzene	9.571	91	3221	59.303	ug/L	89
53) m,p-Xylene	9.693	106	3412	161.080	ug/L	91
54) o-xylene	10.105	106	1310	63.736	ug/L	# 51
55) Styrene	10.121	104	593	16.899	ug/L	95
60) 1,2,3-Trichloropropane	11.816	75	104	2.407	ug/L	# 33
61) Isopropylbenzene	10.484	105	1315	10.254	ug/L	# 82
62) 1,3,5-Trimethylbenzene	11.089	105	872	8.158	ug/L	# 77
63) 1,2,4-Trimethylbenzene	11.468	105	3454	32.298	ug/L	87
65) 1,4-Dichlorobenzene	12.214	146	483	7.672	ug/L	81
67) 1,2-Dichlorobenzene	12.214	146	629	10.254	ug/L	# 83

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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

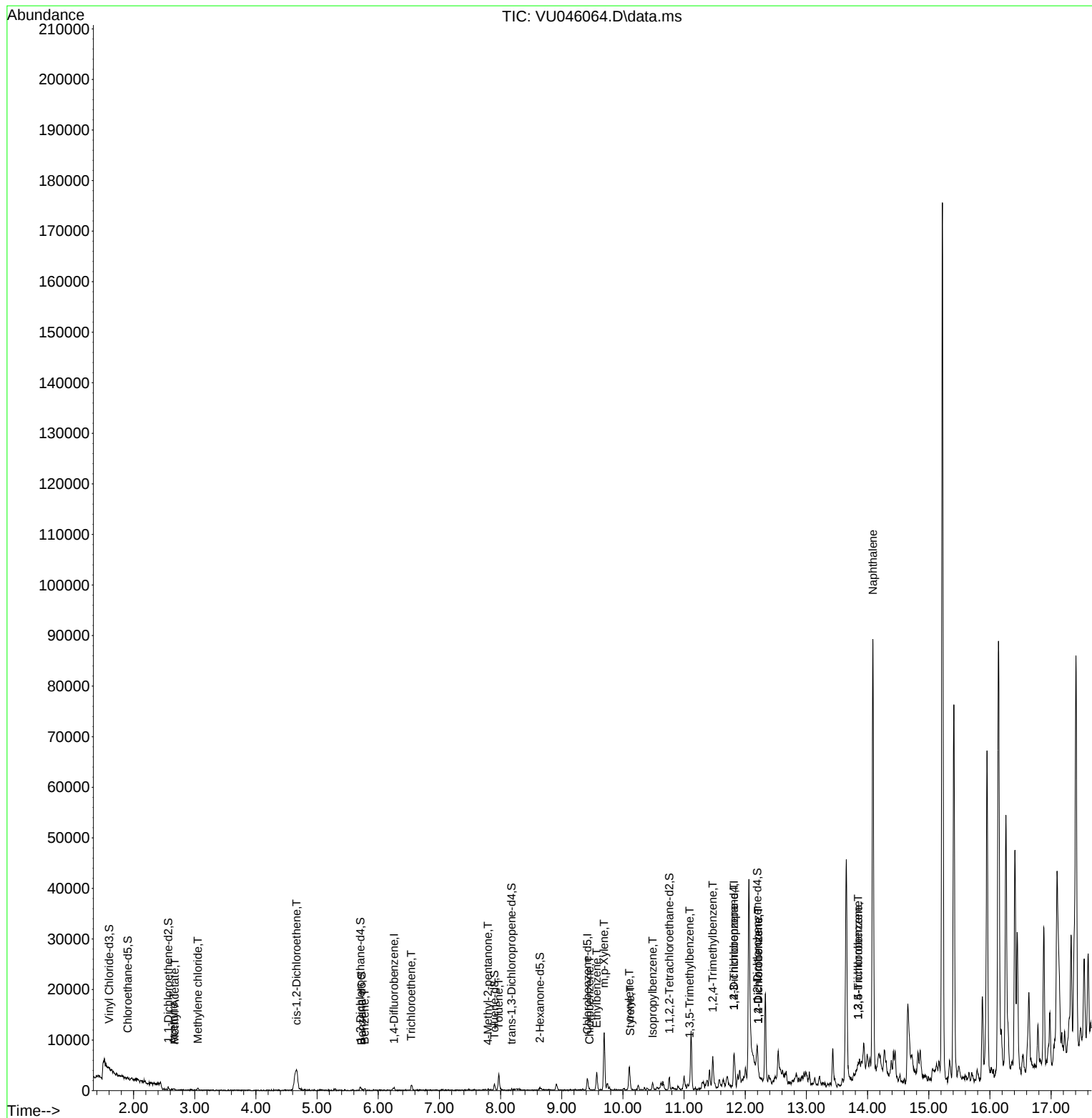
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) 1,3,5-Trichlorobenzene	13.844	180	154	3.470	ug/L #	64
70) 1,2,4-trichlorobenzene	13.844	180	154	3.910	ug/L #	71
71) Naphthalene	14.086	128	69542	507.375	ug/L	99

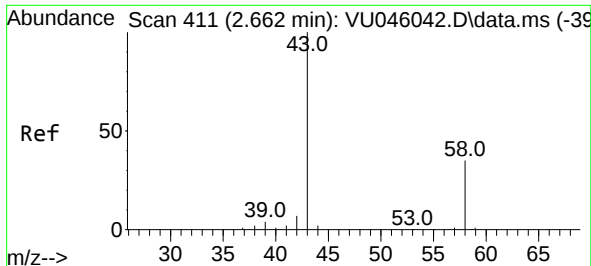
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 20.241 ug/L

RT: 2.655 min Scan# 409

Delta R.T. -0.006 min

Lab File: VU046064.D

Acq: 02 Dec 2021 19:42

Instrument :

MSVOA_U

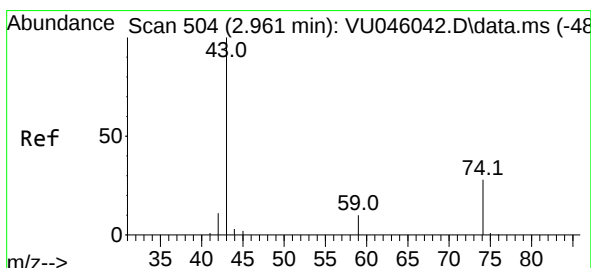
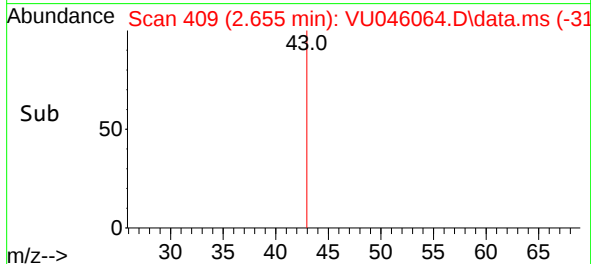
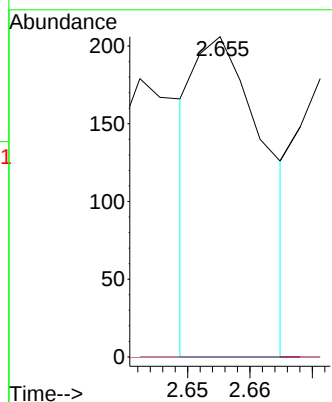
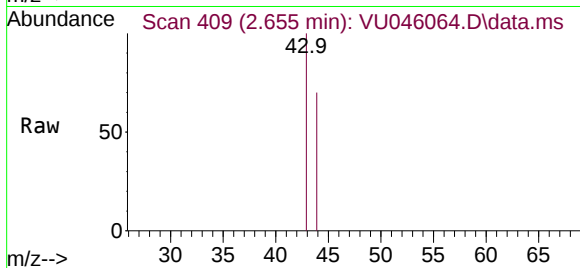
ClientSampleId :

Tgt Ion: 43 Resp: 163

Ion Ratio Lower Upper

43 100

58 0.0 0.0 66.8



#15

Methyl Acetate

Concen: 10.226 ug/L

RT: 2.671 min Scan# 414

Delta R.T. -0.289 min

Lab File: VU046064.D

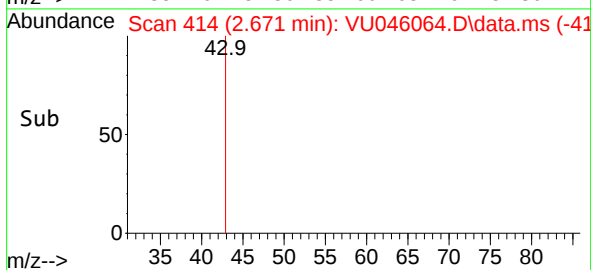
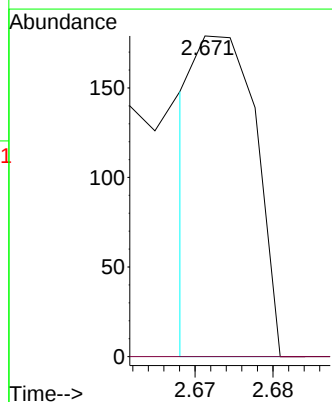
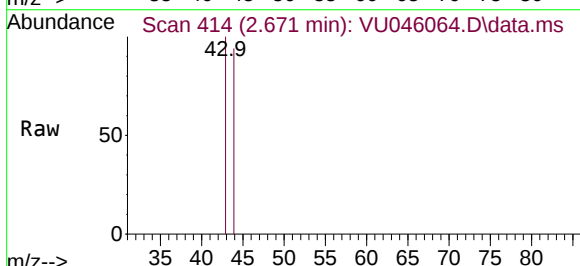
Acq: 02 Dec 2021 19:42

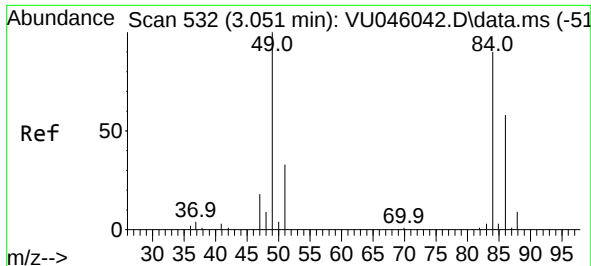
Tgt Ion: 43 Resp: 96

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#





#16

Methylene chloride

Concen: 31.254 ug/L

RT: 3.051 min Scan# 51

Delta R.T. 0.000 min

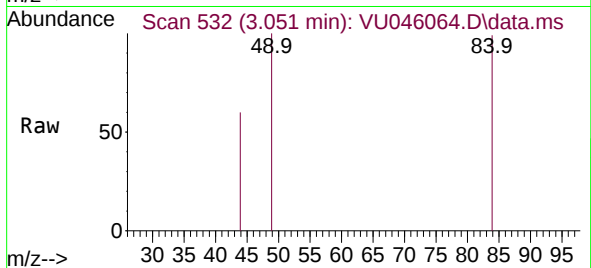
Lab File: VU046064.D

Acq: 02 Dec 2021 19:42

Instrument :

MSVOA_U

ClientSampleId :



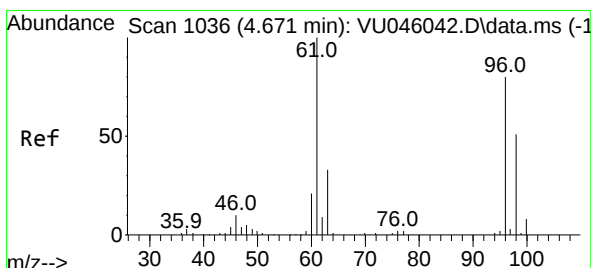
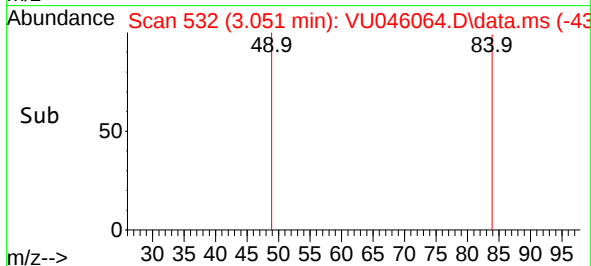
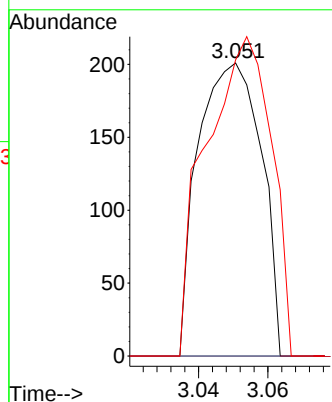
Tgt Ion: 84 Resp: 253

Ion Ratio Lower Upper

84 100

86 0.0 44.7 83.1#

49 101.0 78.4 145.6



#20

cis-1,2-Dichloroethene

Concen: 101.502 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.006 min

Lab File: VU046064.D

Acq: 02 Dec 2021 19:42

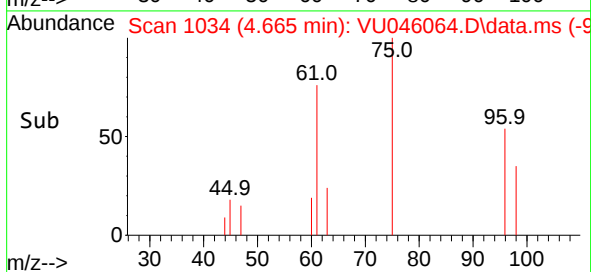
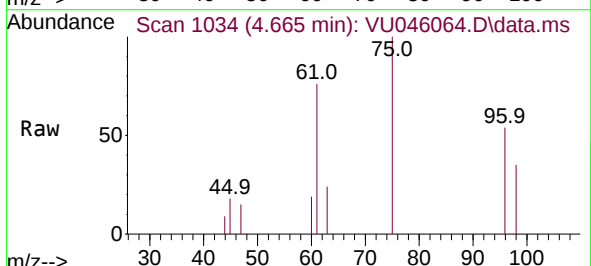
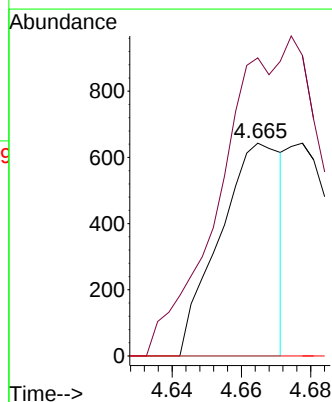
Tgt Ion: 96 Resp: 793

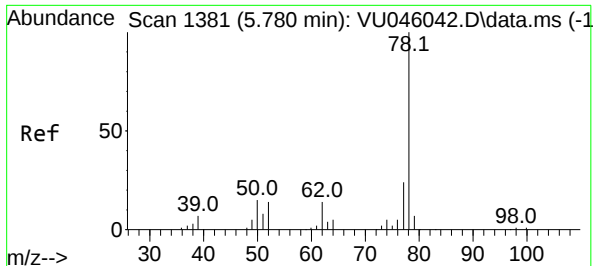
Ion Ratio Lower Upper

96 100

61 140.1 86.8 161.2

68 0.0 0.0 0.0

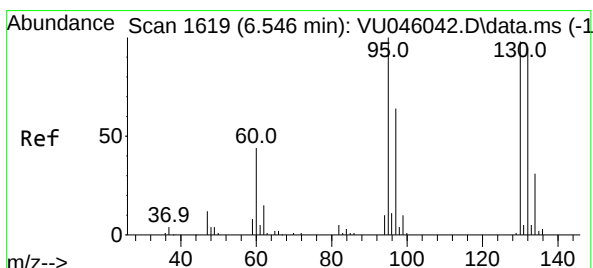
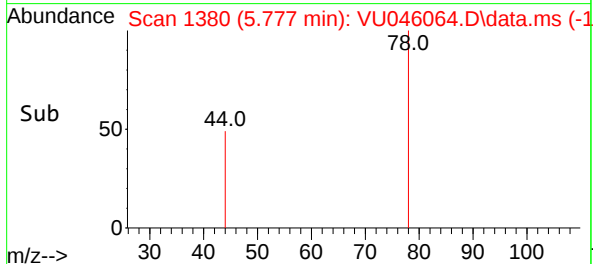
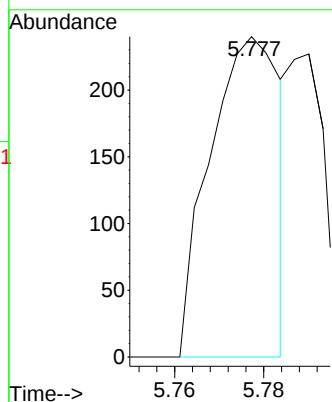
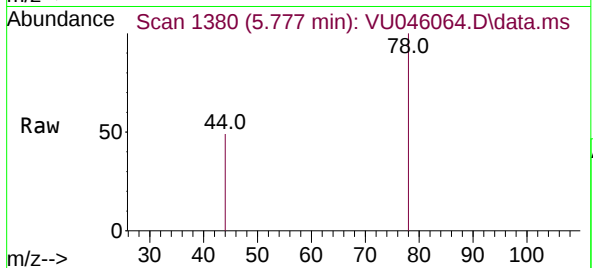




#33
Benzene
Concen: 5.549 ug/L
RT: 5.777 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

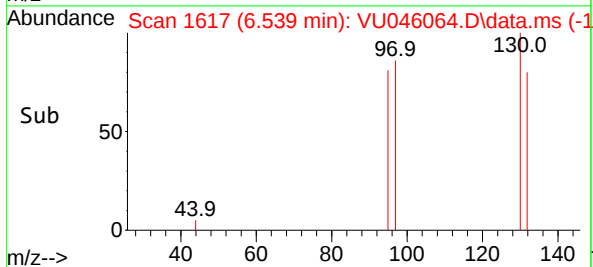
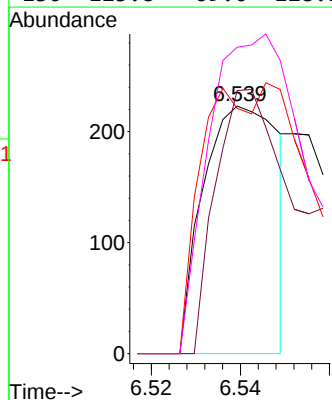
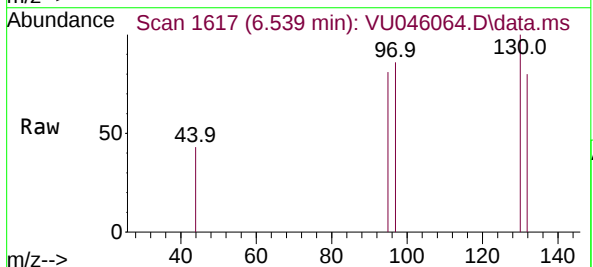
Instrument :
MSVOA_U
ClientSampleId :

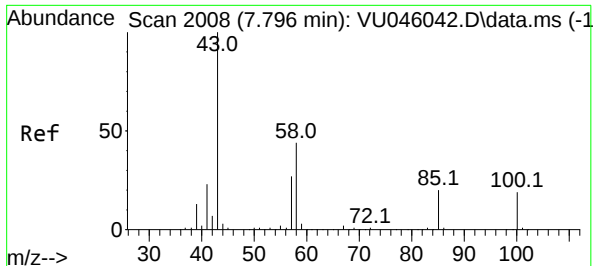
Tgt Ion: 78 Resp: 261



#34
Trichloroethene
Concen: 20.984 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. -0.006 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

Tgt Ion: 95 Resp: 260
Ion Ratio Lower Upper
95 100
97 106.3 44.1 81.9#
132 99.1 66.8 124.0
130 123.8 69.0 128.1





#40

4-Methyl-2-pentanone

Concen: 3.425 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. -0.003 min

Lab File: VU046064.D

Acq: 02 Dec 2021 19:42

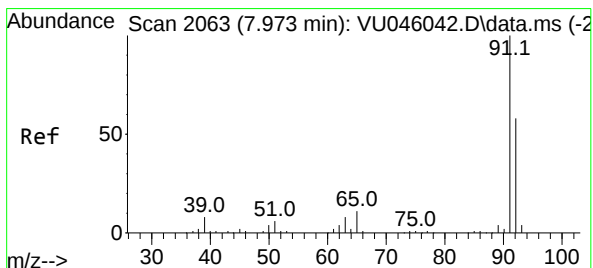
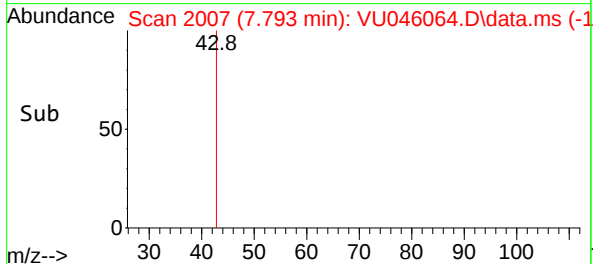
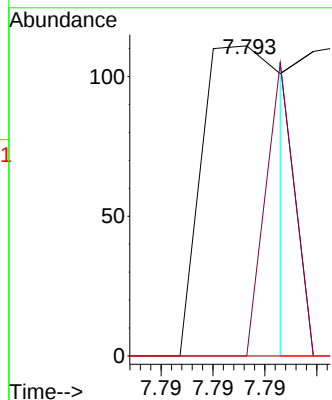
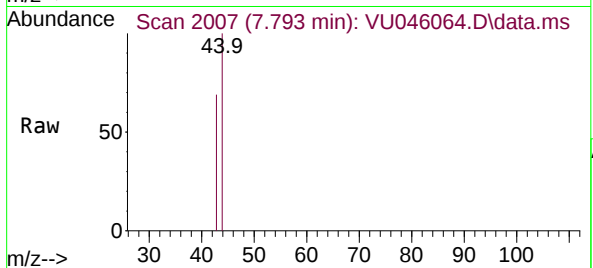
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 43 Resp: 62

Ion	Ratio	Lower	Upper
43	100		
58	0.0	34.2	51.4#
100	1046.8	14.5	21.7#



#42

Toluene

Concen: 52.389 ug/L

RT: 7.970 min Scan# 2062

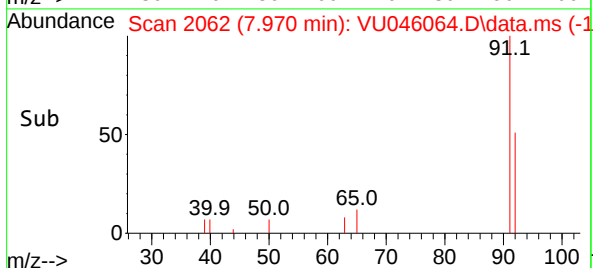
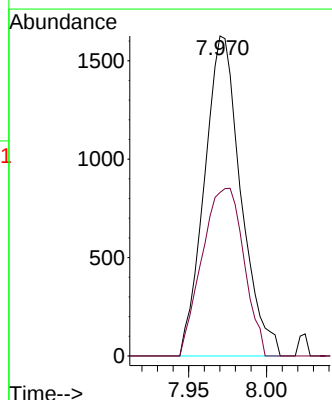
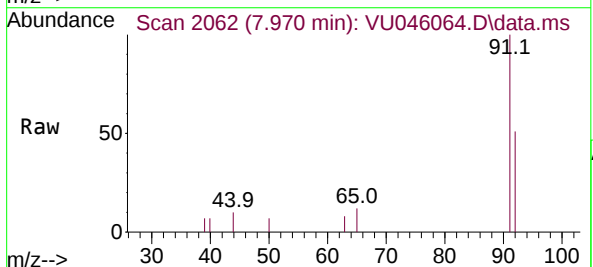
Delta R.T. -0.003 min

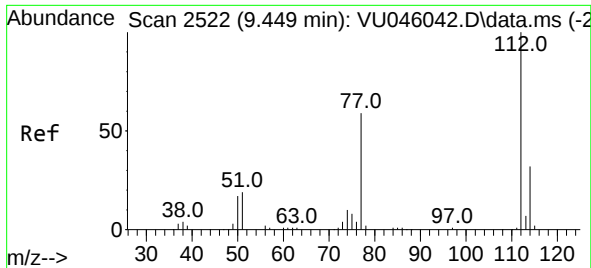
Lab File: VU046064.D

Acq: 02 Dec 2021 19:42

Tgt Ion: 91 Resp: 2644

Ion	Ratio	Lower	Upper
91	100		
92	51.1	41.9	77.7

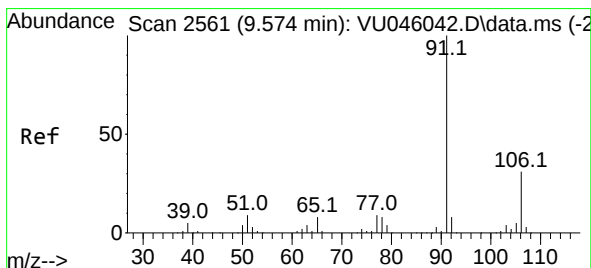
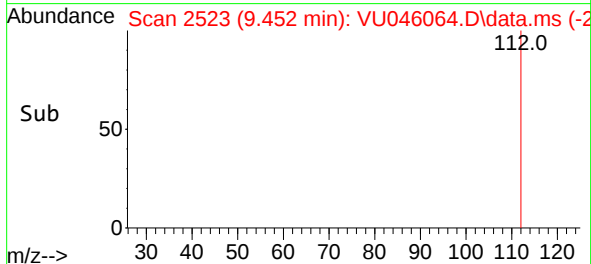
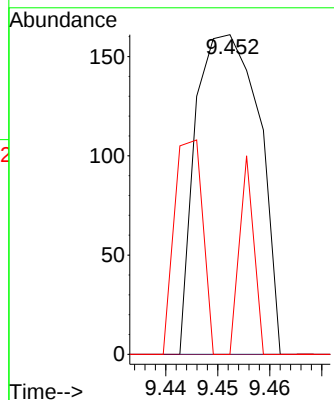
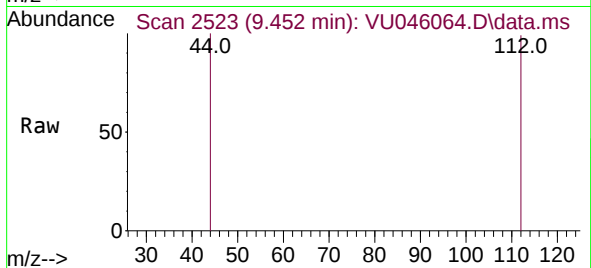




#51
Chlorobenzene
Concen: 4.165 ug/L
RT: 9.452 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

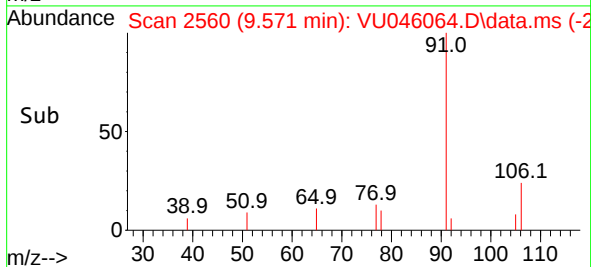
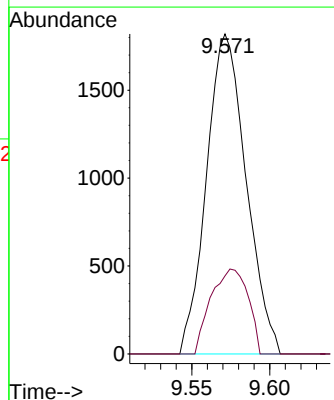
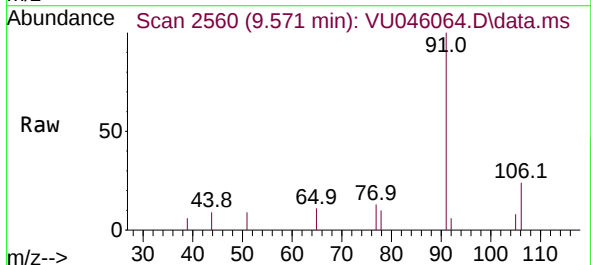
Instrument :
MSVOA_U
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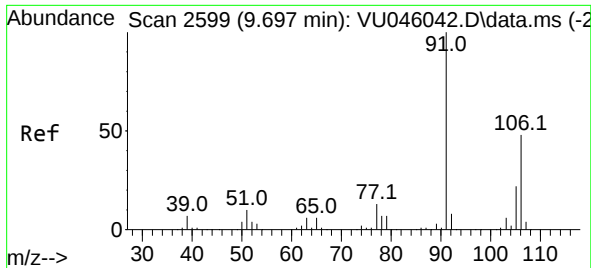
Tgt Ion:112 Resp: 136
Ion Ratio Lower Upper
112 100
114 0.0 22.2 41.2#
77 0.0 47.4 71.0#



#52
Ethylbenzene
Concen: 59.303 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

Tgt Ion: 91 Resp: 3221
Ion Ratio Lower Upper
91 100
106 24.4 21.1 39.3

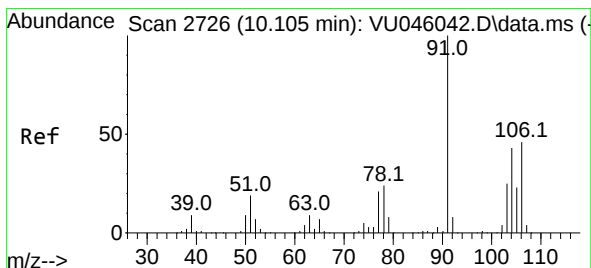
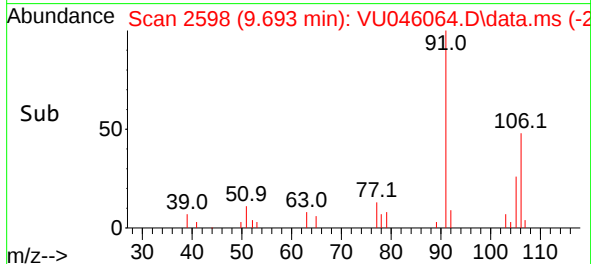
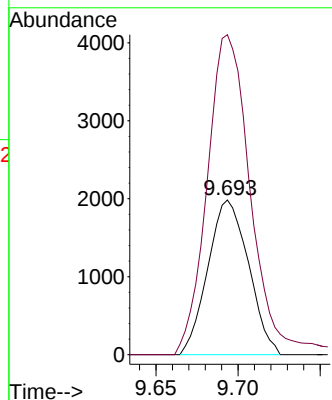
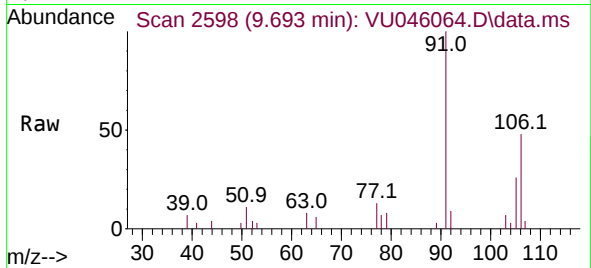




#53
m,p-Xylene
Concen: 161.080 ug/L
RT: 9.693 min Scan# 2599
Delta R.T. -0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

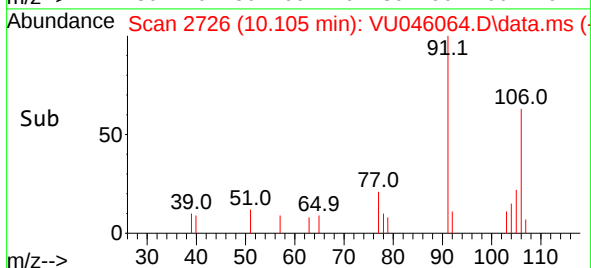
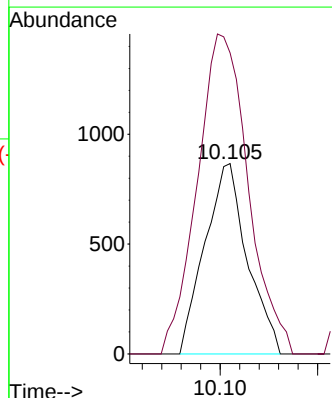
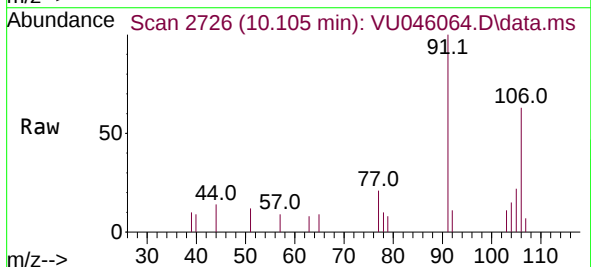
Instrument :
MSVOA_U
ClientSampleId :

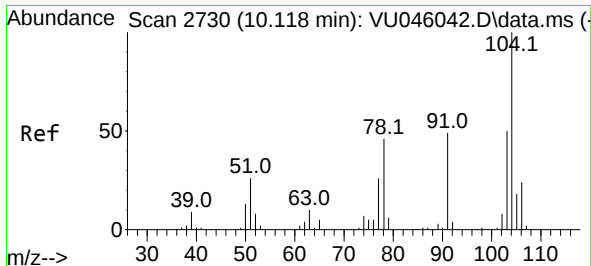
Tgt Ion:106 Resp: 3412
Ion Ratio Lower Upper
106 100
91 192.3 144.3 268.1



#54
o-xylene
Concen: 63.736 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. 0.000 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

Tgt Ion:106 Resp: 1310
Ion Ratio Lower Upper
106 100
91 141.4 154.2 286.4#

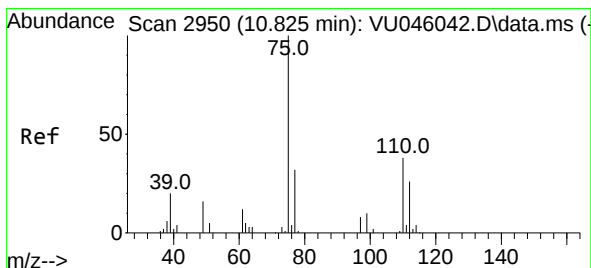
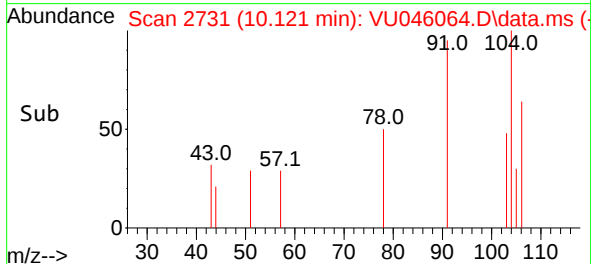
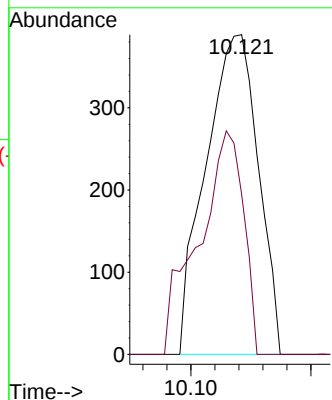
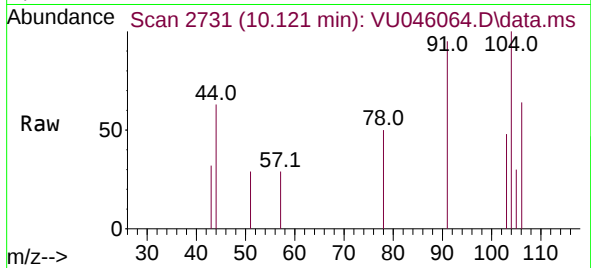




#55
Styrene
Concen: 16.899 ug/L
RT: 10.121 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

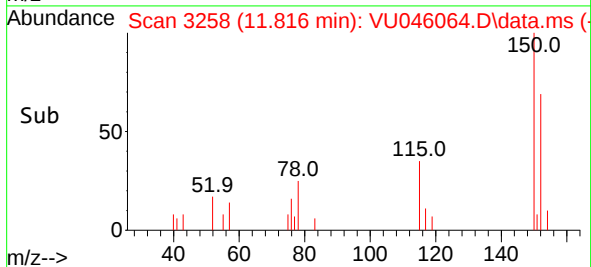
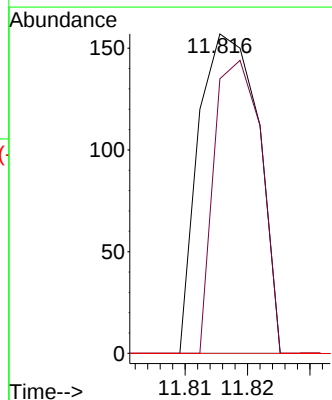
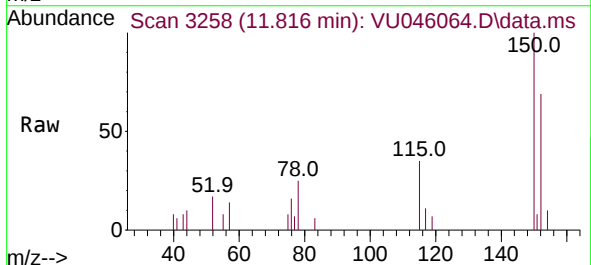
Instrument :
MSVOA_U
ClientSampleId :

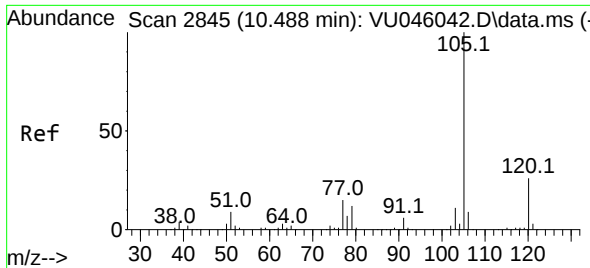
Tgt Ion:104 Resp: 593
Ion Ratio Lower Upper
104 100
78 50.1 32.6 60.5



#60
1,2,3-Trichloropropane
Concen: 2.407 ug/L
RT: 11.816 min Scan# 3258
Delta R.T. 0.990 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

Tgt Ion: 75 Resp: 104
Ion Ratio Lower Upper
75 100
77 72.1 26.4 39.6#
110 0.0 32.4 48.6#

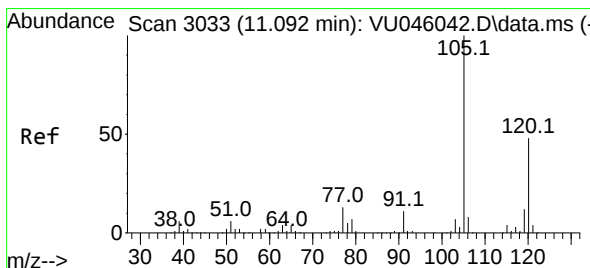
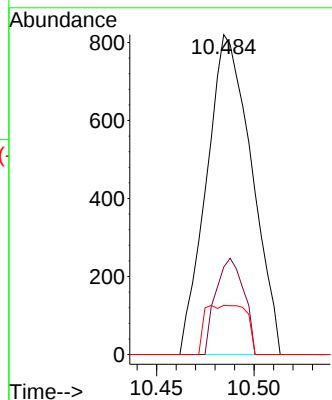
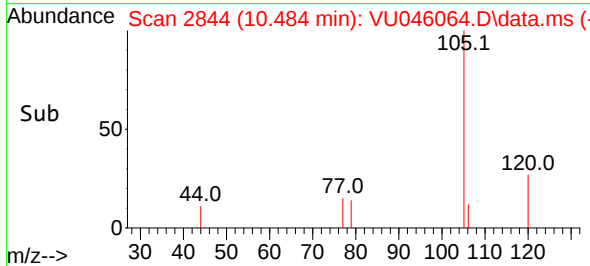
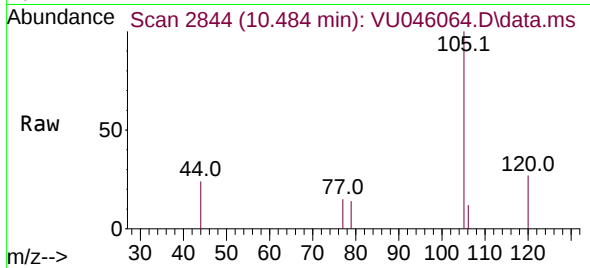




#61
Isopropylbenzene
Concen: 10.254 ug/L
RT: 10.484 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

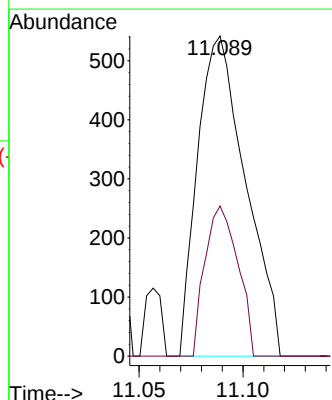
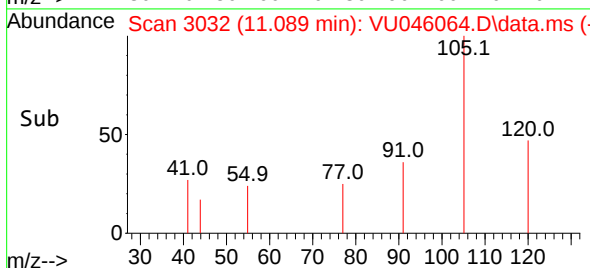
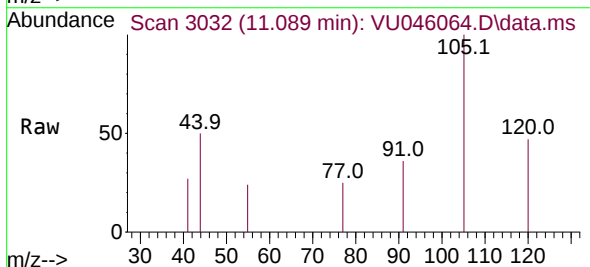
Instrument :
MSVOA_U
ClientSampleId :

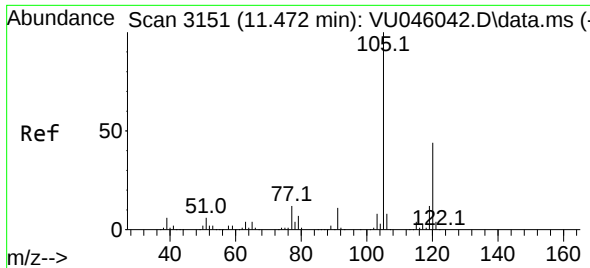
Tgt Ion:105 Resp: 1315
Ion Ratio Lower Upper
105 100
120 18.9 20.7 31.1#
77 5.3 12.2 18.4#



#62
1,3,5-Trimethylbenzene
Concen: 8.158 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

Tgt Ion:105 Resp: 872
Ion Ratio Lower Upper
105 100
120 32.0 37.8 56.6#

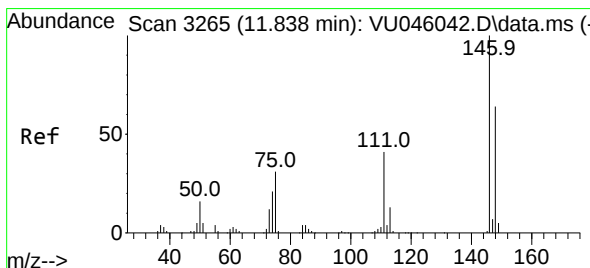
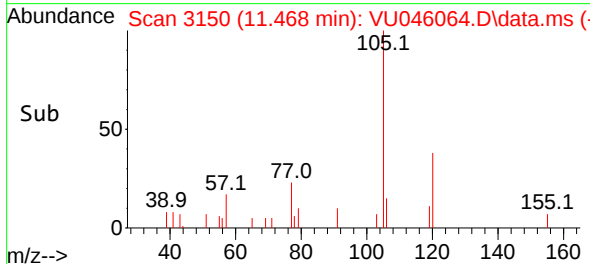
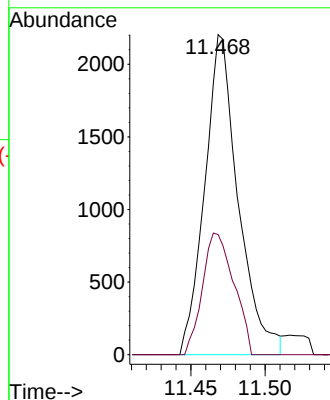
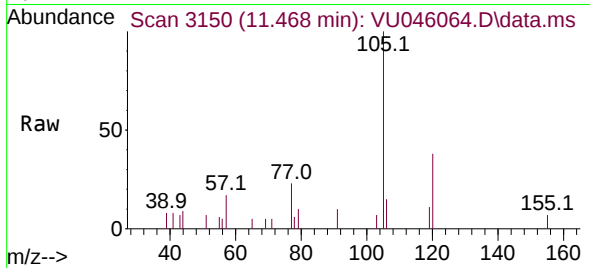




#63
1,2,4-Trimethylbenzene
Concen: 32.298 ug/L
RT: 11.468 min Scan# 3151
Delta R.T. -0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

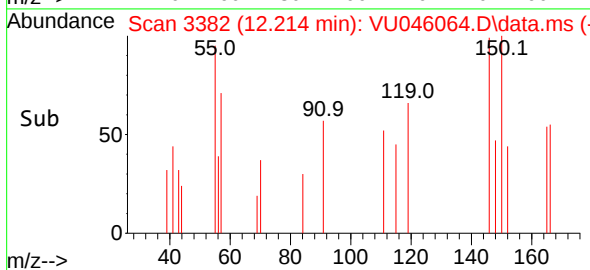
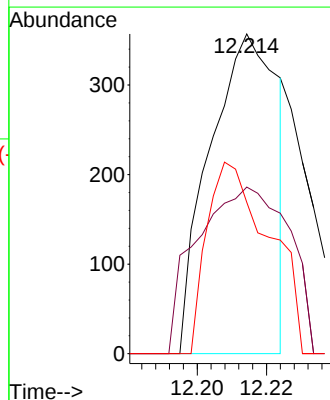
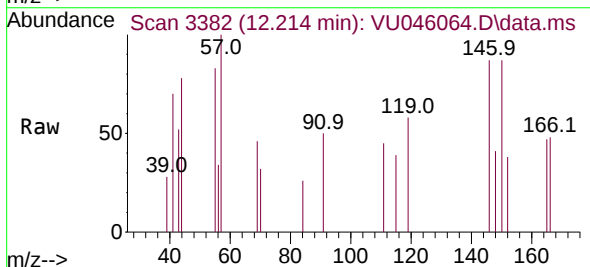
Instrument :
MSVOA_U
ClientSampleId :

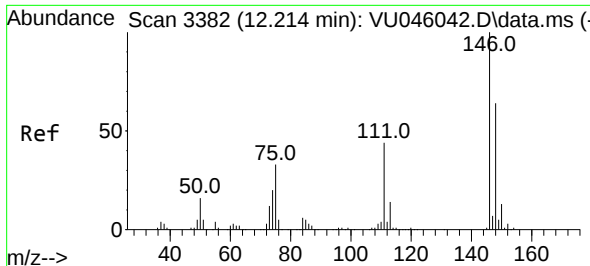
Tgt Ion:105 Resp: 3454
Ion Ratio Lower Upper
105 100
120 35.6 35.2 52.8



#65
1,4-Dichlorobenzene
Concen: 7.672 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.376 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

Tgt Ion:146 Resp: 483
Ion Ratio Lower Upper
146 100
111 52.1 28.3 52.7
148 47.3 43.8 81.3





#67

1,2-Dichlorobenzene

Concen: 10.254 ug/L

RT: 12.214 min Scan# 31

Delta R.T. 0.000 min

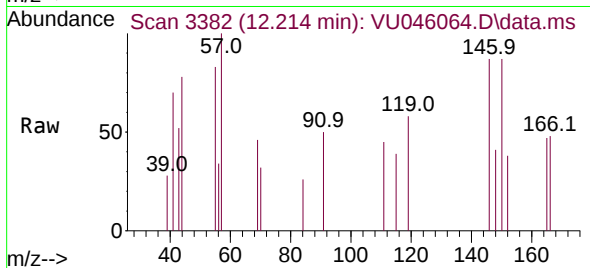
Lab File: VU046064.D

Acq: 02 Dec 2021 19:42

Instrument :

MSVOA_U

ClientSampleId :



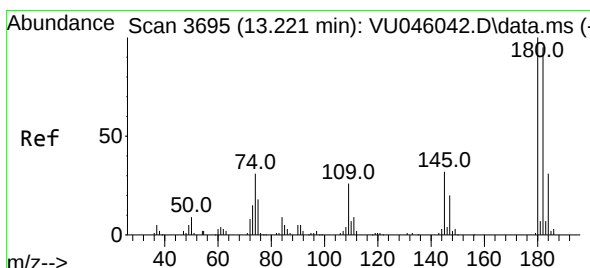
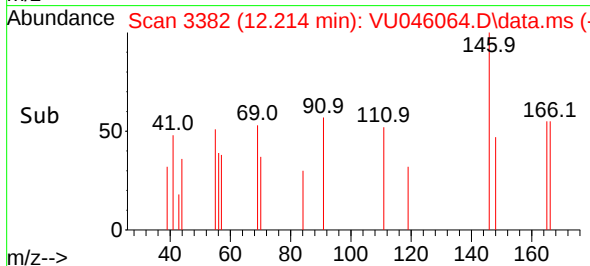
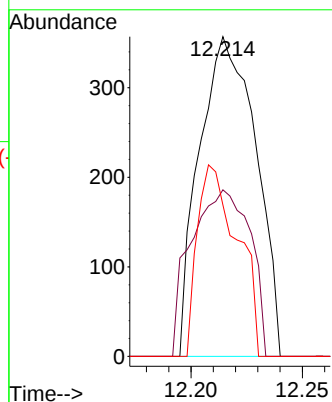
Tgt Ion:146 Resp: 629

Ion Ratio Lower Upper

146 100

111 52.1 35.7 53.5

148 47.3 51.2 76.8#



#69

1,3,5-Trichlorobenzene

Concen: 3.470 ug/L

RT: 13.844 min Scan# 3889

Delta R.T. 0.624 min

Lab File: VU046064.D

Acq: 02 Dec 2021 19:42

Tgt Ion:180 Resp: 154

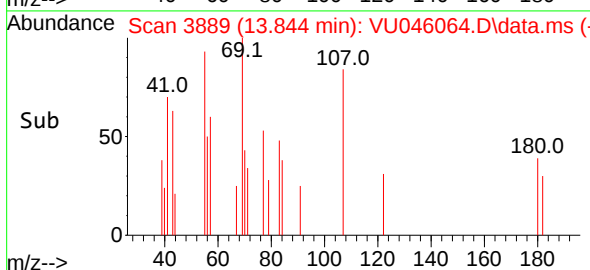
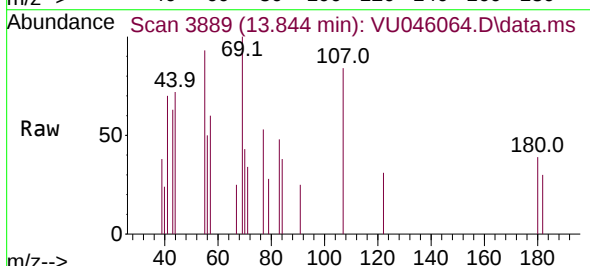
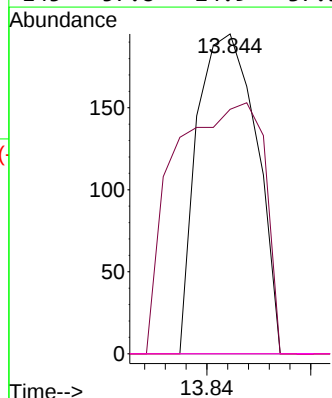
Ion Ratio Lower Upper

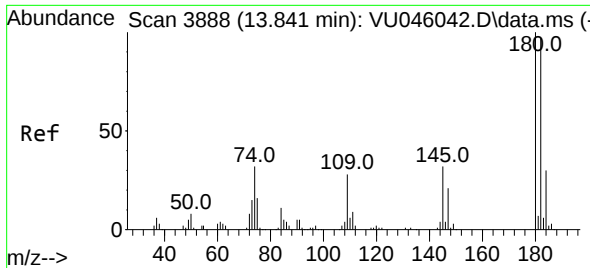
180 100

182 119.5 75.9 113.9#

184 0.0 24.2 36.4#

145 57.8 24.9 37.3#

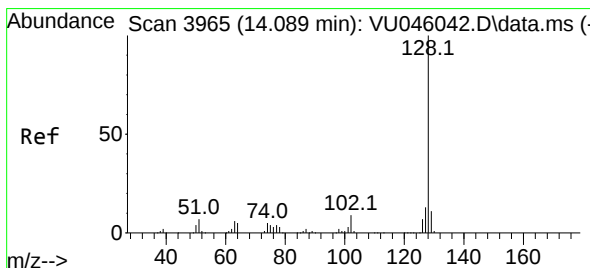
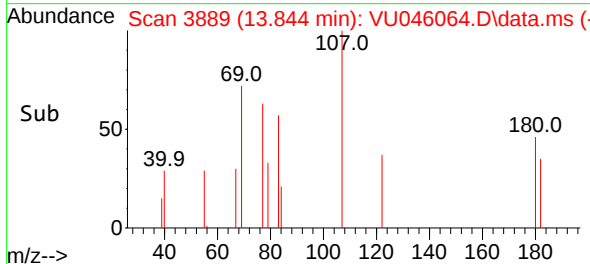
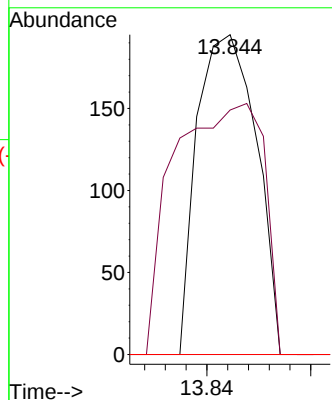
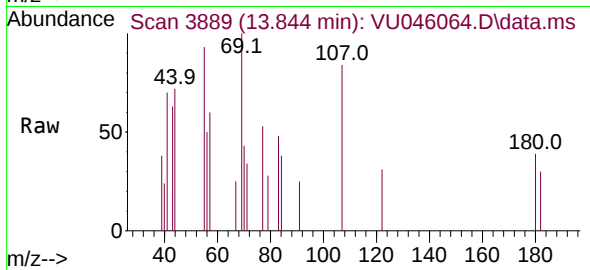




#70
1,2,4-trichlorobenzene
Concen: 3.910 ug/L
RT: 13.844 min Scan# 3889
Delta R.T. 0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:180 Resp: 154
Ion Ratio Lower Upper
180 100
182 119.5 76.7 115.1#
145 57.8 26.0 39.0#



#71
Naphthalene
Concen: 507.375 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046064.D
Acq: 02 Dec 2021 19:42

Tgt Ion:128 Resp: 69542
Ion Ratio Lower Upper
128 100
127 12.9 10.1 15.1
129 11.4 8.6 13.0

