

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121121\
 Data File : VU046283.D
 Acq On : 11 Dec 2021 13:57
 Operator : SY/MD
 Sample : M4943-01DL 20X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 12 01:38:21 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	183998	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	193820	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	110414	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	59156	39.029	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.060%
7) Chloroethane-d5	1.919	69	48721	41.866	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.740%
11) 1,1-Dichloroethene-d2	2.571	63	82388	30.279	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	60.560%
21) 2-Butanone-d5	4.636	46	136040	112.906	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.910%
24) Chloroform-d	5.067	84	122798	48.515	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.040%
26) 1,2-Dichloroethane-d4	5.706	65	85669	50.433	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.860%
32) Benzene-d6	5.732	84	251083	45.198	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.400%
36) 1,2-Dichloropropane-d6	6.693	67	82331	47.821	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.640%
41) Toluene-d8	7.899	98	216485	42.800	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.600%
43) trans-1,3-Dichloroprop...	8.182	79	39286	47.270	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.540%
47) 2-Hexanone-d5	8.636	63	98657	120.858	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	120.860%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	142577	54.607	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	109.220%
66) 1,2-Dichlorobenzene-d4	12.195	152	104042	48.929	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.860%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.571	101	699	0.522	ug/L #	21
12) 1,1-Dichloroethene	2.575	96	723	0.568	ug/L #	1
13) Acetone	2.655	43	15233	10.116	ug/L	84
33) Benzene	5.780	78	5003	0.853	ug/L	100
37) 1,2-Dichloropropane	6.693	63	8740	5.688	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	2296	0.982	ug/L #	58
42) Toluene	7.973	91	70133	11.142	ug/L	99
44) trans-1,3-Dichloropropene	8.179	75	1868	0.814	ug/L	83
52) Ethylbenzene	9.571	91	171815	25.363	ug/L	99
53) m,p-Xylene	9.693	106	201245	76.175	ug/L	97
54) o-xylene	10.102	106	68704	26.801	ug/L	96
55) Styrene	10.105	104	5724	1.308	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.809	83	3777	1.429	ug/L #	51
61) Isopropylbenzene	10.484	105	28728	3.999	ug/L	97
62) 1,3,5-Trimethylbenzene	11.089	105	82795	13.827	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	281885	47.053	ug/L	99
67) 1,2-Dichlorobenzene	12.214	146	3196	0.930	ug/L #	56
70) 1,2,4-trichlorobenzene	13.844	180	1671	0.757	ug/L #	75
71) Naphthalene	14.085	128	544927	70.971	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

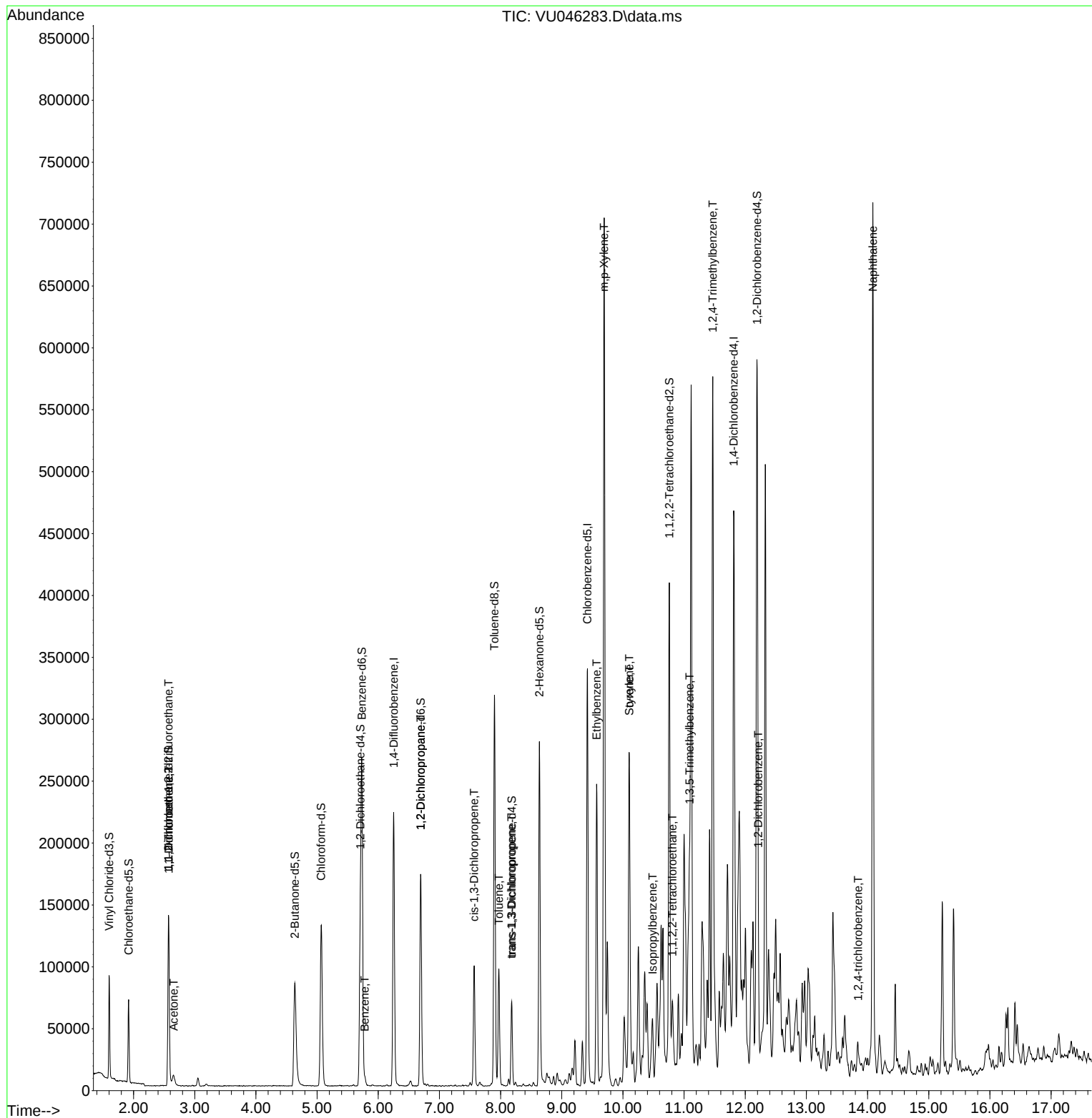
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

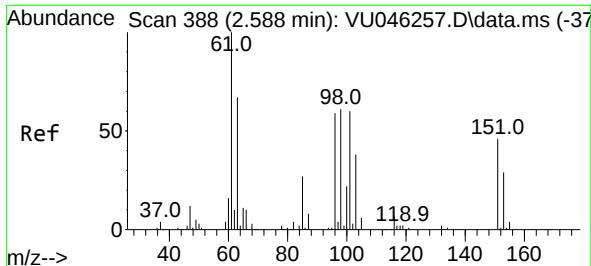
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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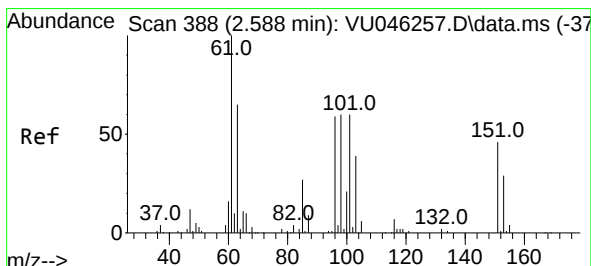
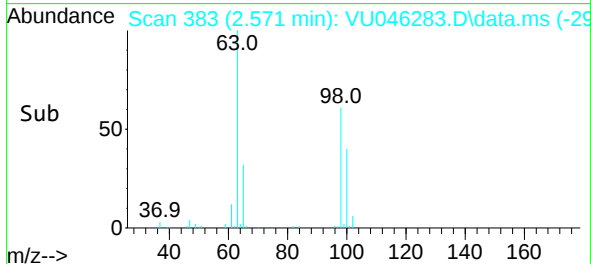
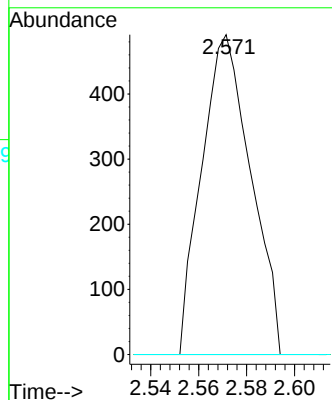
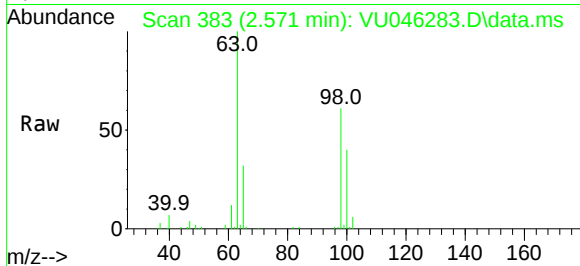




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.522 ug/L
RT: 2.571 min Scan# 383
Delta R.T. -0.016 min
Lab File: VU046283.D
Acq: 11 Dec 2021 13:57

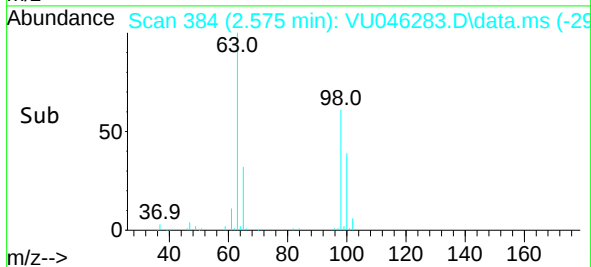
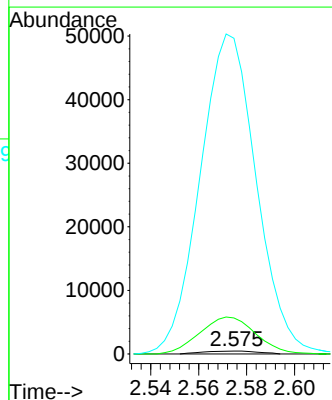
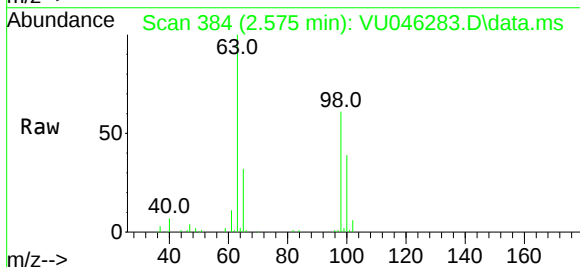
Instrument :
MSVOA_U
ClientSampleId :

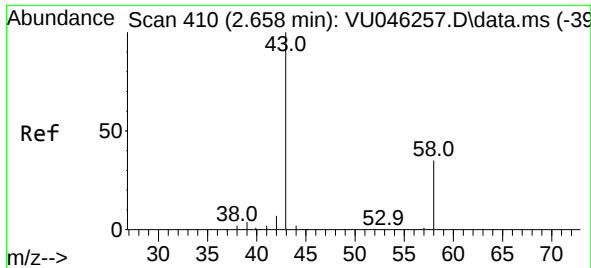
Tgt Ion:101 Resp: 699
Ion Ratio Lower Upper
101 100
85 0.0 35.1 52.7#
151 0.0 56.7 85.1#



#12
1,1-Dichloroethene
Concen: 0.568 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.010 min
Lab File: VU046283.D
Acq: 11 Dec 2021 13:57

Tgt Ion: 96 Resp: 723
Ion Ratio Lower Upper
96 100
61 1238.7 118.6 220.2#
63 10865.6 93.0 172.8#

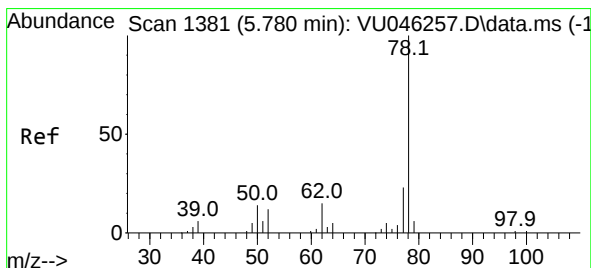
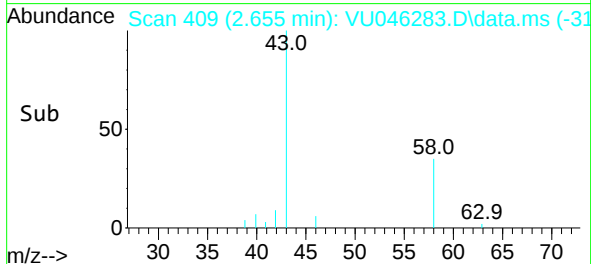
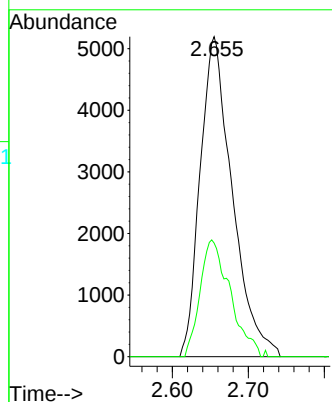
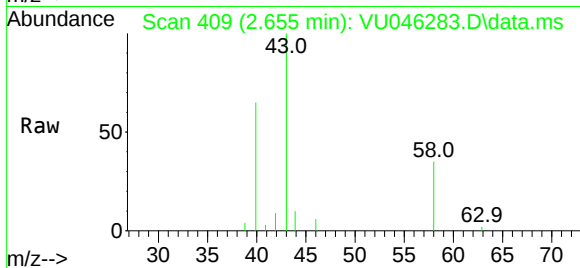




#13
Acetone
Concen: 10.116 ug/L
RT: 2.655 min Scan# 409
Delta R.T. -0.007 min
Lab File: VU046283.D
Acq: 11 Dec 2021 13:57

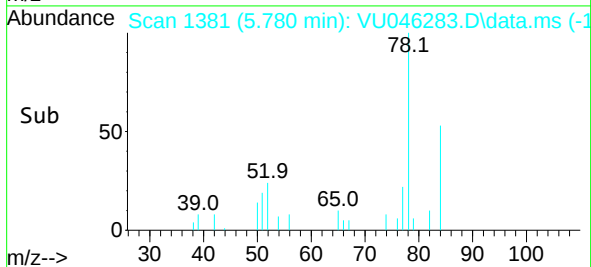
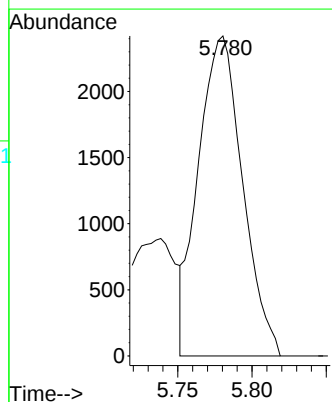
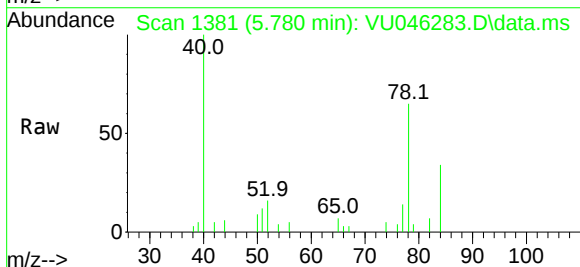
Instrument :
MSVOA_U
ClientSampleId :

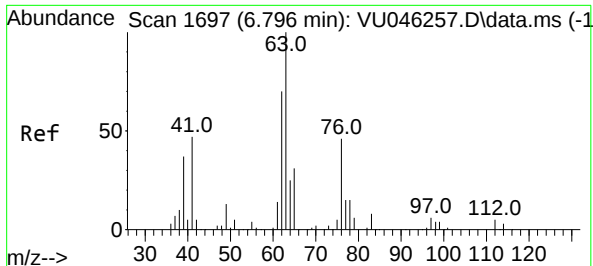
Tgt Ion: 43 Resp: 15233
Ion Ratio Lower Upper
43 100
58 24.3 0.0 66.8



#33
Benzene
Concen: 0.853 ug/L
RT: 5.780 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VU046283.D
Acq: 11 Dec 2021 13:57

Tgt Ion: 78 Resp: 5003





#37

1,2-Dichloropropane

Concen: 5.688 ug/L

RT: 6.693 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU046283.D

Acq: 11 Dec 2021 13:57

Instrument :

MSVOA_U

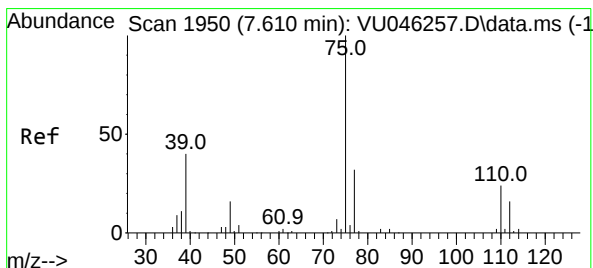
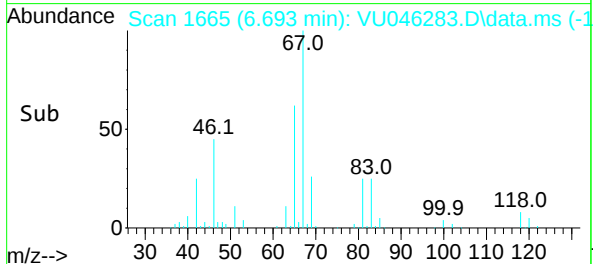
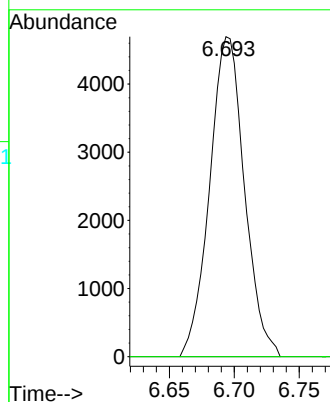
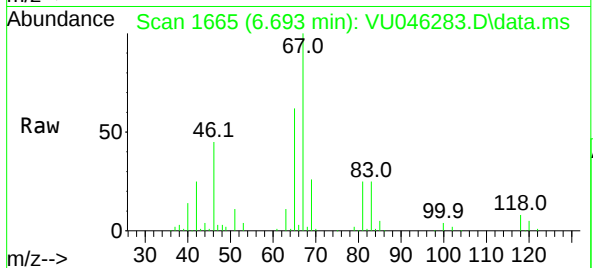
ClientSampleId :

Tgt Ion: 63 Resp: 8740

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.982 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU046283.D

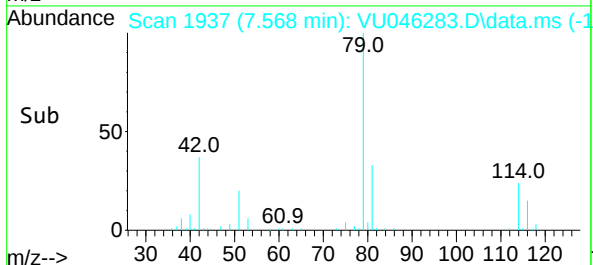
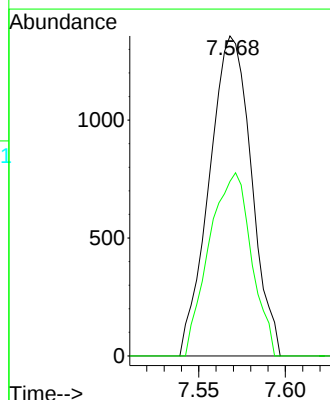
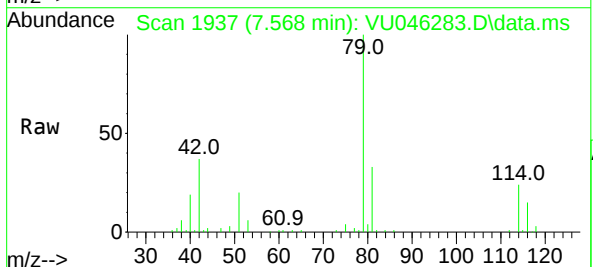
Acq: 11 Dec 2021 13:57

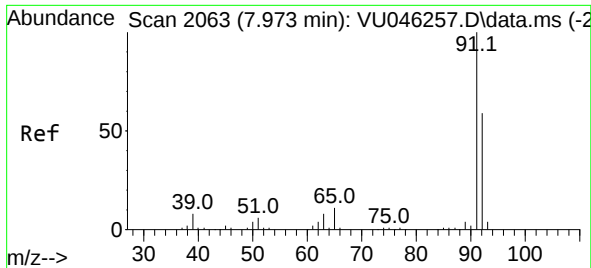
Tgt Ion: 75 Resp: 2296

Ion Ratio Lower Upper

75 100

77 54.5 21.8 40.6#





#42

Toluene

Concen: 11.142 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. -0.000 min

Lab File: VU046283.D

Acq: 11 Dec 2021 13:57

Instrument :

MSVOA_U

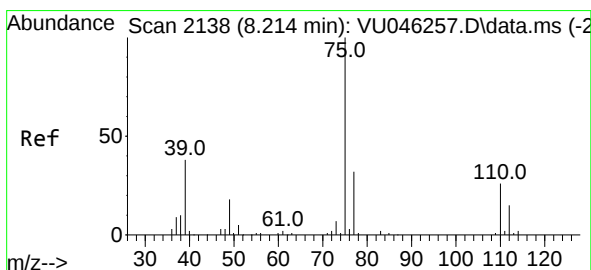
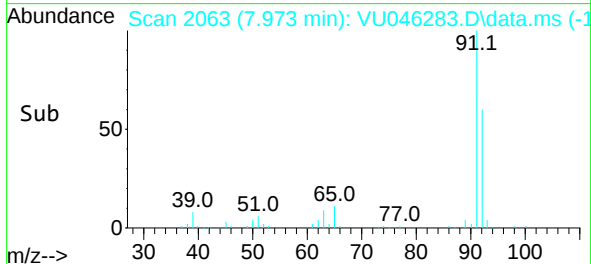
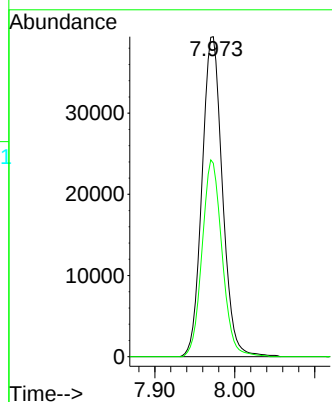
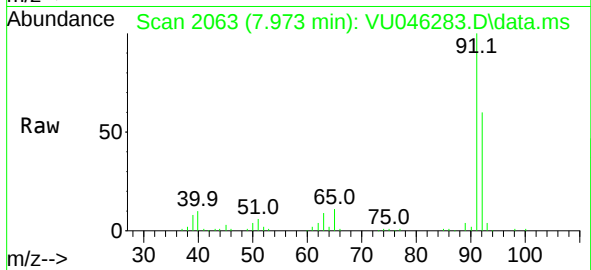
ClientSampleId :

Tgt Ion: 91 Resp: 70133

Ion Ratio Lower Upper

91 100

92 60.5 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 0.814 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.035 min

Lab File: VU046283.D

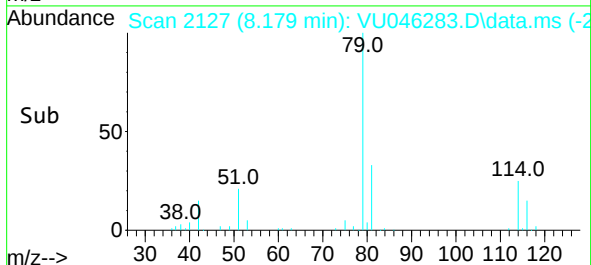
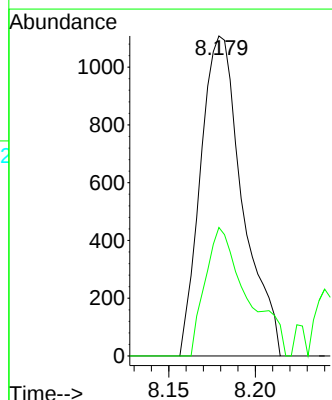
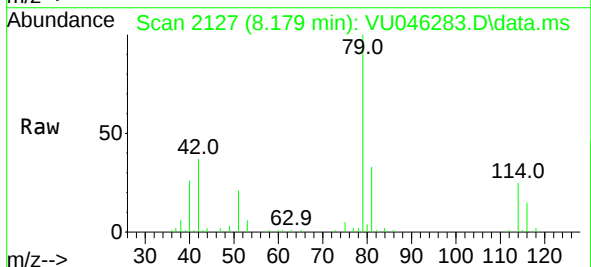
Acq: 11 Dec 2021 13:57

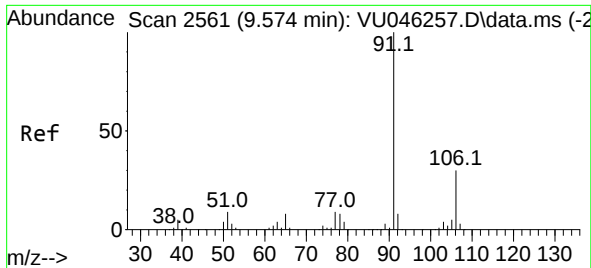
Tgt Ion: 75 Resp: 1868

Ion Ratio Lower Upper

75 100

77 40.2 21.7 40.3

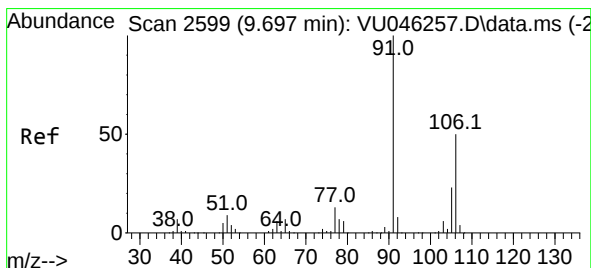
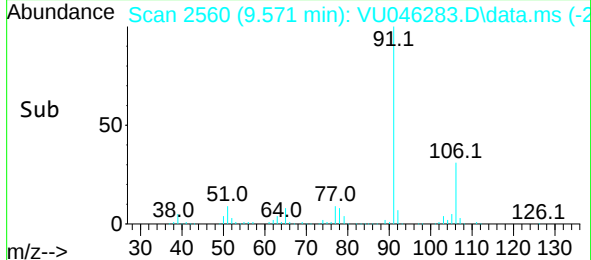
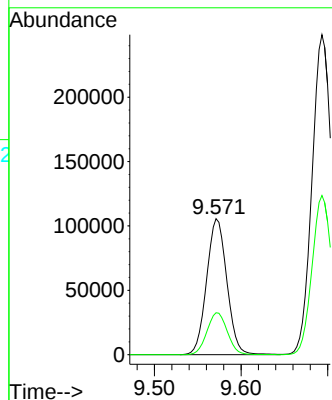
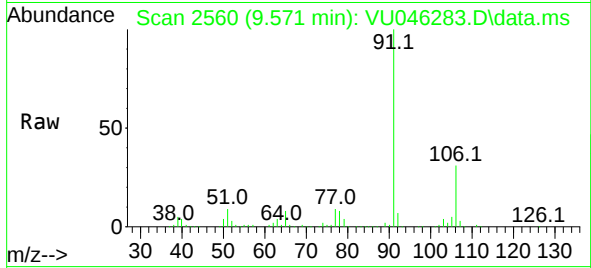




#52
Ethylbenzene
Concen: 25.363 ug/L
RT: 9.571 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU046283.D
Acq: 11 Dec 2021 13:57

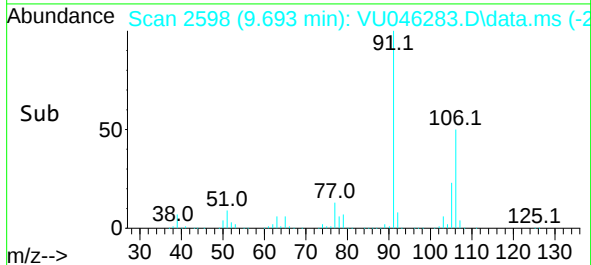
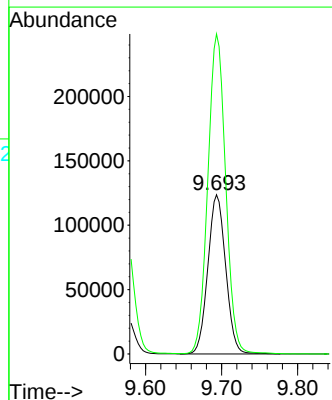
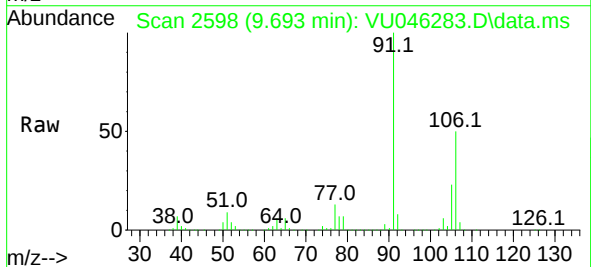
Instrument :
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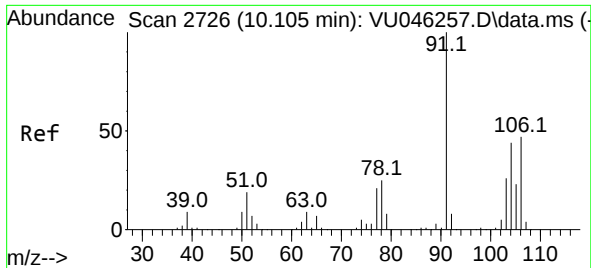
Tgt Ion: 91 Resp: 171815
Ion Ratio Lower Upper
91 100
106 30.9 21.1 39.3



#53
m,p-Xylene
Concen: 76.175 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046283.D
Acq: 11 Dec 2021 13:57

Tgt Ion: 106 Resp: 201245
Ion Ratio Lower Upper
106 100
91 201.0 144.3 268.1

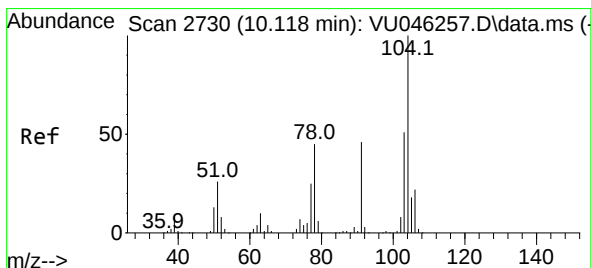
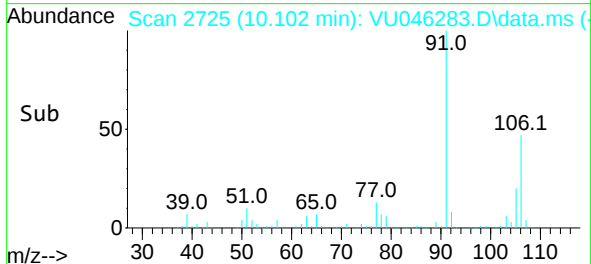
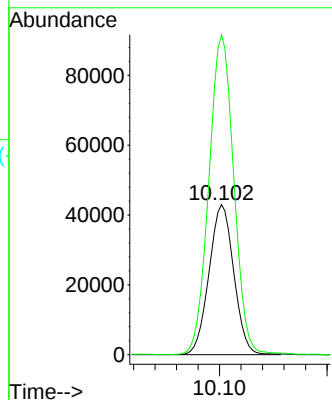
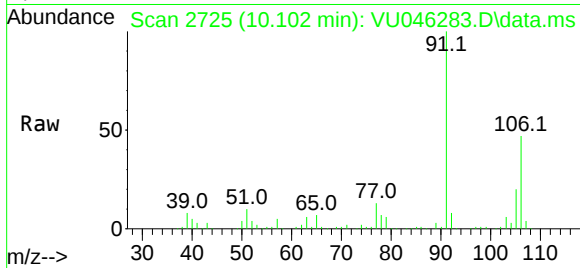




#54
o-xylene
Concen: 26.801 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046283.D
Acq: 11 Dec 2021 13:57

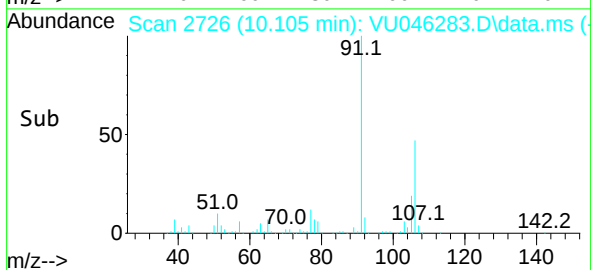
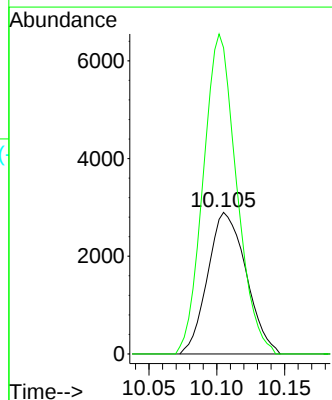
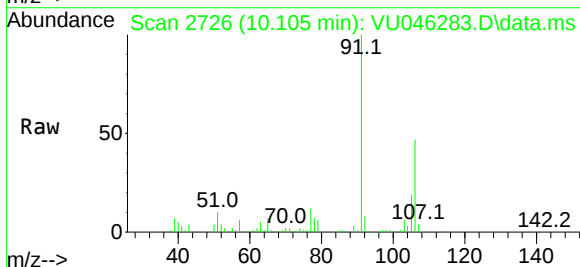
Instrument :
MSVOA_U
ClientSampleId :

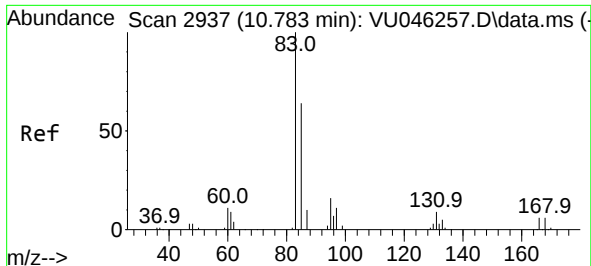
Tgt Ion:106 Resp: 68704
Ion Ratio Lower Upper
106 100
91 213.2 154.2 286.4



#55
Styrene
Concen: 1.308 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. -0.013 min
Lab File: VU046283.D
Acq: 11 Dec 2021 13:57

Tgt Ion:104 Resp: 5724
Ion Ratio Lower Upper
104 100
78 216.2 32.6 60.5#





#57

1,1,2,2-Tetrachloroethane

Concen: 1.429 ug/L

RT: 10.809 min Scan# 2937

Delta R.T. 0.022 min

Lab File: VU046283.D

Acq: 11 Dec 2021 13:57

Instrument :

MSVOA_U

ClientSampleId :

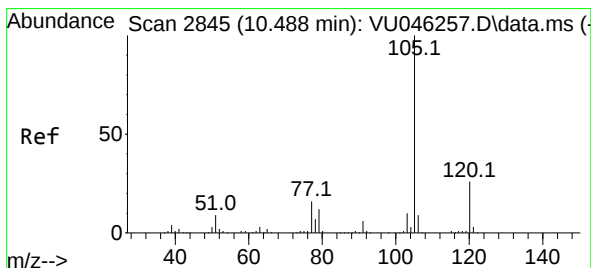
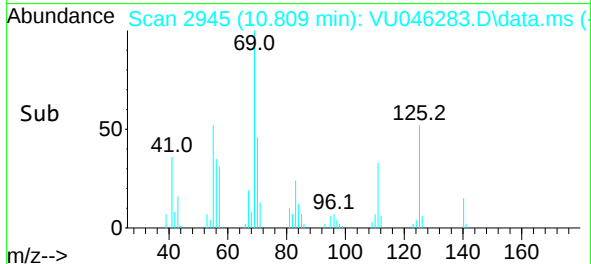
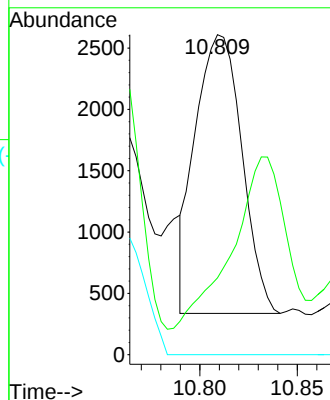
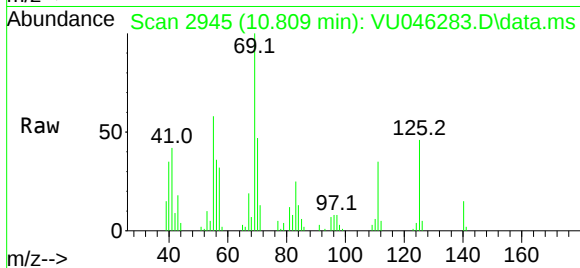
Tgt Ion: 83 Resp: 3777

Ion Ratio Lower Upper

83 100

85 24.0 45.6 84.6#

131 0.0 7.8 11.6#



#61

Isopropylbenzene

Concen: 3.999 ug/L

RT: 10.484 min Scan# 2844

Delta R.T. -0.003 min

Lab File: VU046283.D

Acq: 11 Dec 2021 13:57

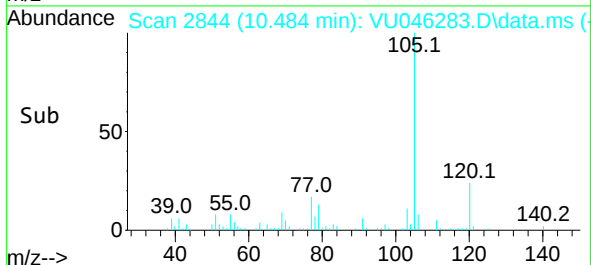
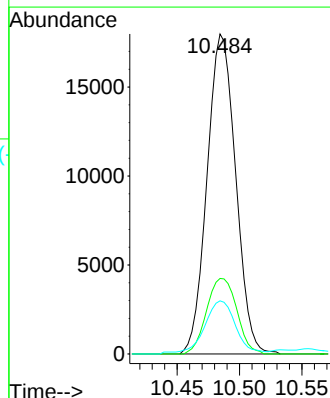
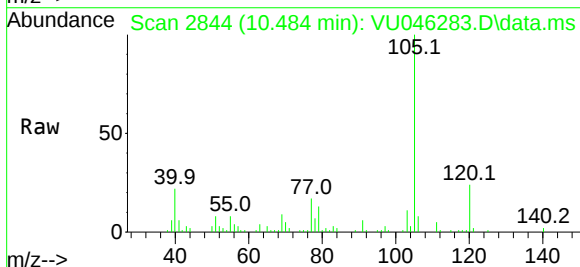
Tgt Ion:105 Resp: 28728

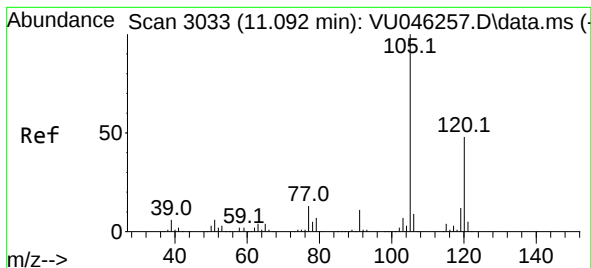
Ion Ratio Lower Upper

105 100

120 24.9 20.7 31.1

77 17.2 12.2 18.4





#62

1,3,5-Trimethylbenzene

Concen: 13.827 ug/L

RT: 11.089 min Scan# 3033

Delta R.T. -0.003 min

Lab File: VU046283.D

Acq: 11 Dec 2021 13:57

Instrument :

MSVOA_U

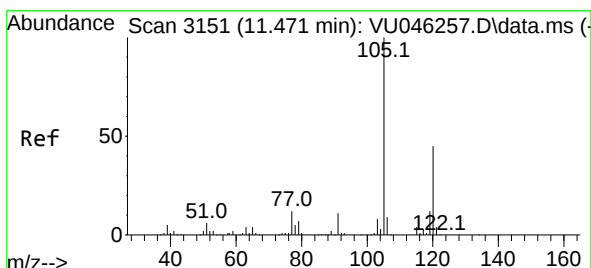
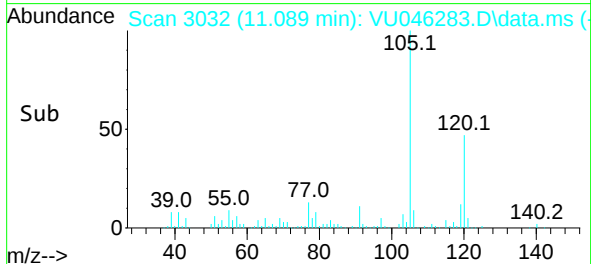
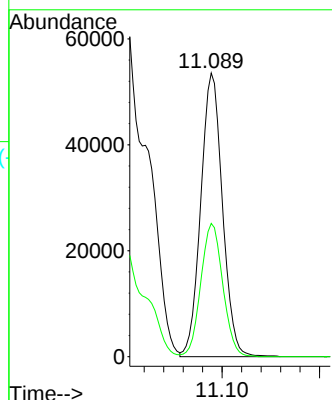
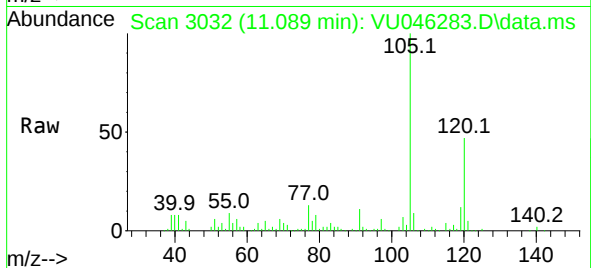
ClientSampleId :

Tgt Ion:105 Resp: 82795

Ion Ratio Lower Upper

105 100

120 47.6 37.8 56.6



#63

1,2,4-Trimethylbenzene

Concen: 47.053 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.003 min

Lab File: VU046283.D

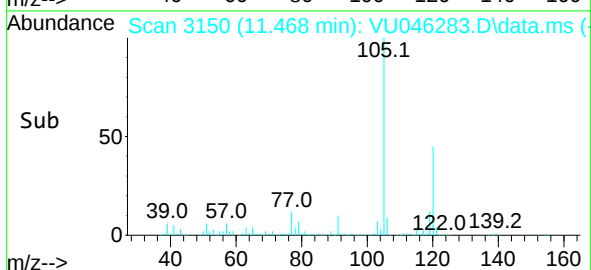
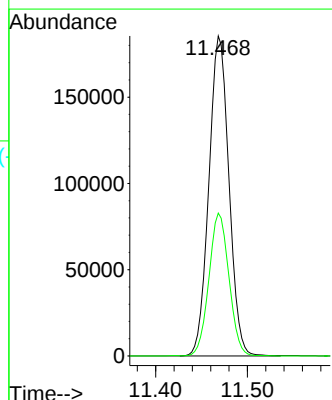
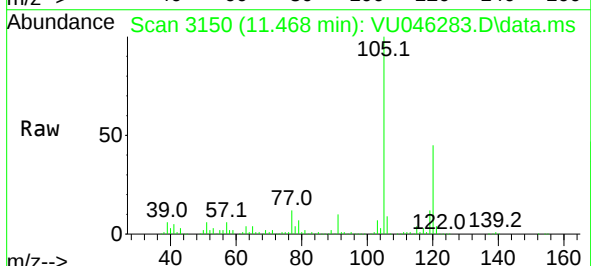
Acq: 11 Dec 2021 13:57

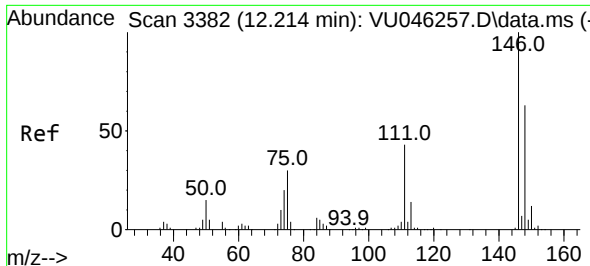
Tgt Ion:105 Resp: 281885

Ion Ratio Lower Upper

105 100

120 44.6 35.2 52.8





#67

1,2-Dichlorobenzene

Concen: 0.930 ug/L

RT: 12.214 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU046283.D

Acq: 11 Dec 2021 13:57

Instrument :

MSVOA_U

ClientSampleId :

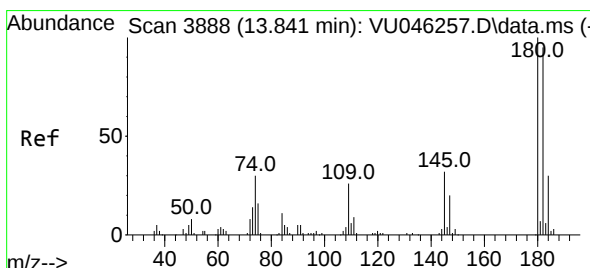
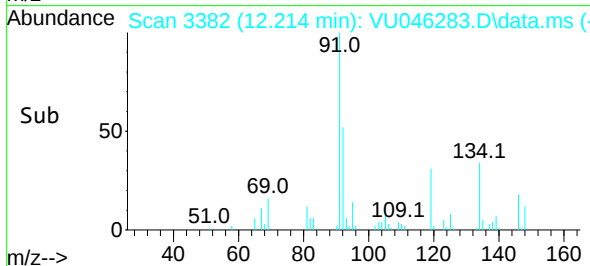
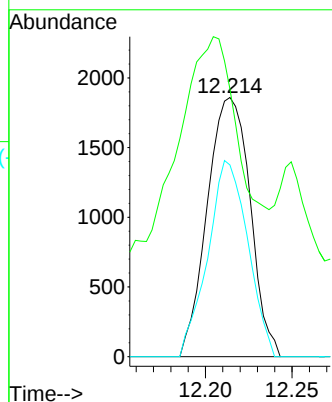
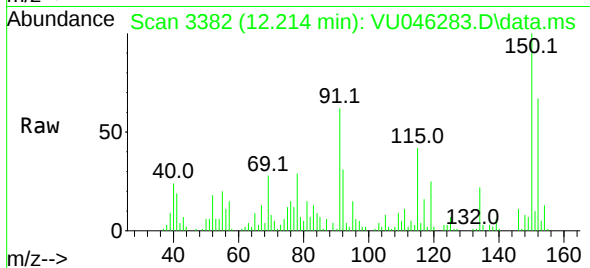
Tgt Ion:146 Resp: 3196

Ion Ratio Lower Upper

146 100

111 103.2 35.7 53.5#

148 73.9 51.2 76.8



#70

1,2,4-trichlorobenzene

Concen: 0.757 ug/L

RT: 13.844 min Scan# 3889

Delta R.T. 0.003 min

Lab File: VU046283.D

Acq: 11 Dec 2021 13:57

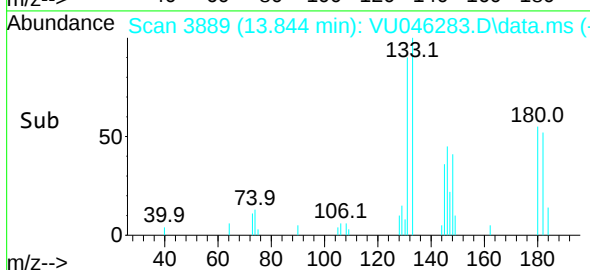
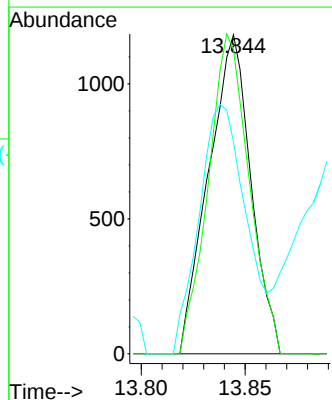
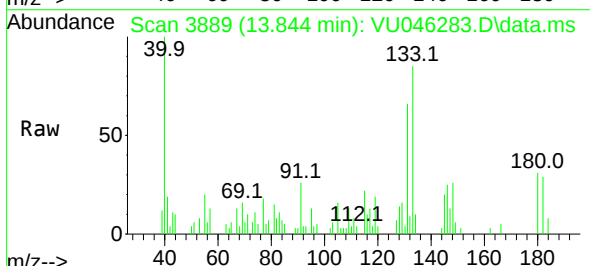
Tgt Ion:180 Resp: 1671

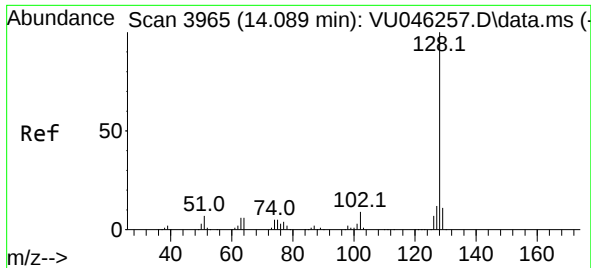
Ion Ratio Lower Upper

180 100

182 96.8 76.7 115.1

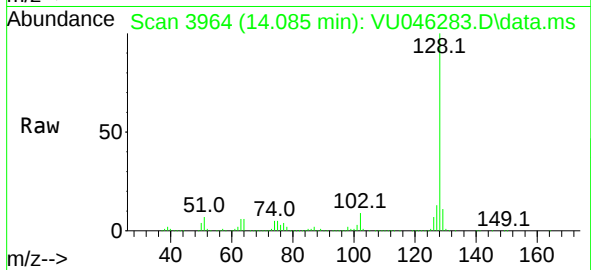
145 86.7 26.0 39.0#





#71
Naphthalene
Concen: 70.971 ug/L
RT: 14.085 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046283.D
Acq: 11 Dec 2021 13:57

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:128 Resp: 544927
Ion Ratio Lower Upper
128 100
127 12.9 10.1 15.1
129 11.1 8.6 13.0

