

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121521\
 Data File : VU046405.D
 Acq On : 15 Dec 2021 18:46
 Operator : SY/MD
 Sample : M4997-12DL 50X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 16 03:12:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 16 02:25:11 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	151928	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	152523	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	77908	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	64307	51.384	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.760%
7) Chloroethane-d5	1.919	69	45369	47.215	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.440%
11) 1,1-Dichloroethene-d2	2.572	63	82125	36.554	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.100%
21) 2-Butanone-d5	4.636	46	83402	83.831	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	83.830%
24) Chloroform-d	5.067	84	106018	50.728	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.460%
26) 1,2-Dichloroethane-d4	5.706	65	70548	50.298	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.600%
32) Benzene-d6	5.732	84	212906	48.702	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.400%
36) 1,2-Dichloropropane-d6	6.694	67	64571	47.660	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.320%
41) Toluene-d8	7.899	98	182337	45.810	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.620%
43) trans-1,3-Dichloroprop...	8.182	79	30839	47.153	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.300%
47) 2-Hexanone-d5	8.636	63	62434	97.193	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.190%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	92804	45.168	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.340%
66) 1,2-Dichlorobenzene-d4	12.195	152	69036	46.013	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.020%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	33584	22.529	ug/L	100
8) Chloroethane	1.941	64	1850	2.143	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.572	101	701	0.634	ug/L #	21
12) 1,1-Dichloroethene	2.581	96	1911	1.819	ug/L #	1
17) trans-1,2-Dichloroethene	3.359	96	2430	2.186	ug/L	94
19) 1,1-Dichloroethane	3.877	63	173855	86.011	ug/L	100
20) cis-1,2-Dichloroethene	4.671	96	171141	141.877	ug/L	98
27) 1,2-Dichloroethane	5.796	62	878	0.527	ug/L #	73
30) 1,1,1-Trichloroethane	5.321	97	9139	4.881	ug/L	99
31) Carbon tetrachloride	5.321	117	1109	0.698	ug/L	99
34) Trichloroethene	6.546	95	7719	6.347	ug/L	98
35) Methylcyclohexane	6.694	83	16081	8.528	ug/L #	20
37) 1,2-Dichloropropane	6.694	63	7304	6.040	ug/L #	86
39) cis-1,3-Dichloropropene	7.571	75	1786	0.971	ug/L #	49
42) Toluene	7.970	91	5914	1.194	ug/L	88
44) trans-1,3-Dichloropropene	8.176	75	1253	0.693	ug/L #	73
46) Tetrachloroethene	8.555	164	1111	1.243	ug/L	94
49) Dibromochloromethane	8.555	129	1065	0.836	ug/L #	10
52) Ethylbenzene	9.574	91	7191	1.349	ug/L	98

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 Quant Title : VOC Analysis
 QLast Update : Thu Dec 16 02:25:11 2021
 Response via : Initial Calibration

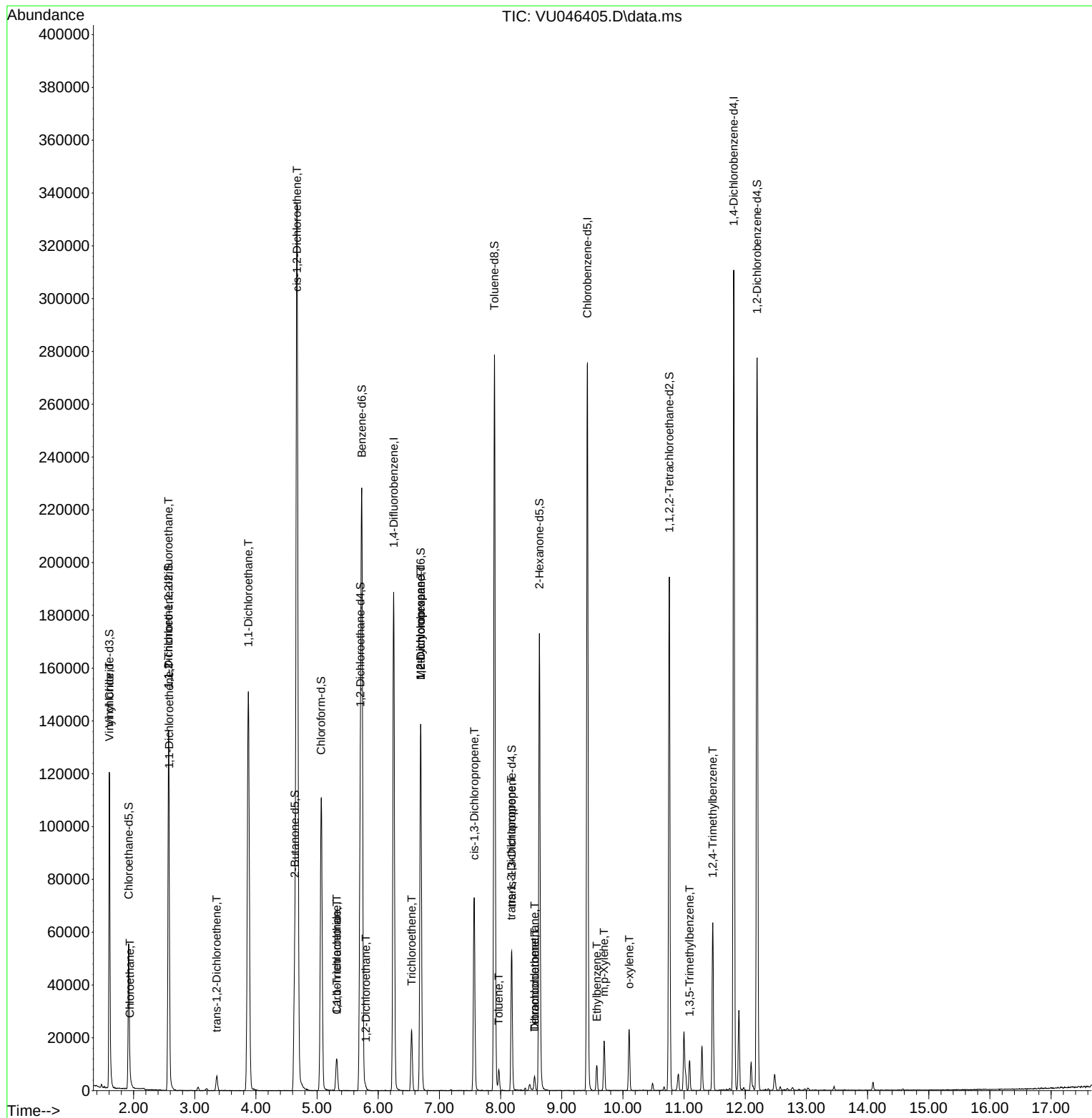
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.693	106	5300	2.549	ug/L	95
54) o-xylene	10.105	106	6262	3.104	ug/L	91
62) 1,3,5-Trimethylbenzene	11.089	105	6822	1.615	ug/L	96
63) 1,2,4-Trimethylbenzene	11.468	105	34929	8.263	ug/L	100

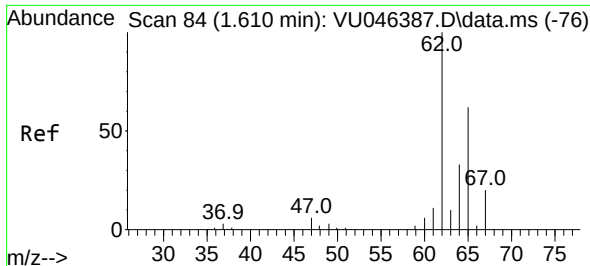
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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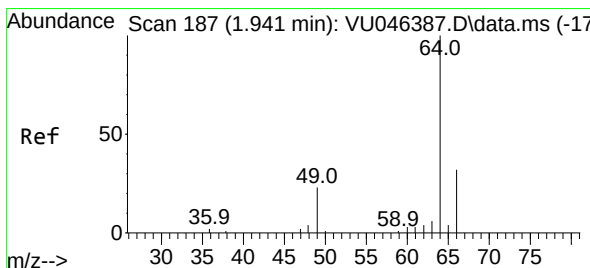
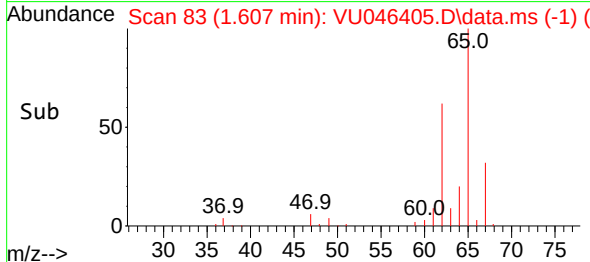
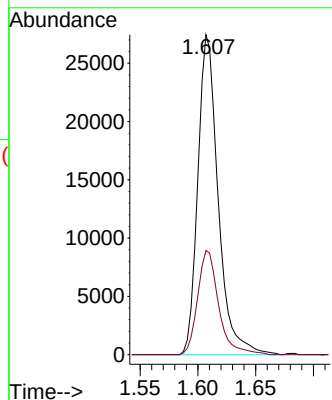
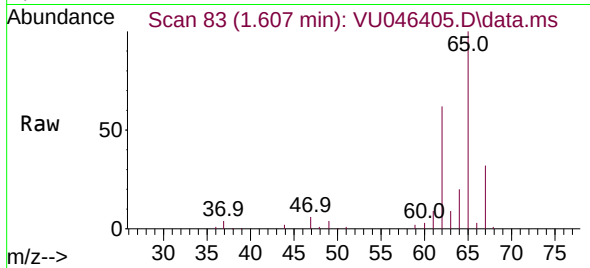




#5
 Vinyl chloride
 Concen: 22.529 ug/L
 RT: 1.607 min Scan# 84
 Delta R.T. -0.003 min
 Lab File: VU046405.D
 Acq: 15 Dec 2021 18:46

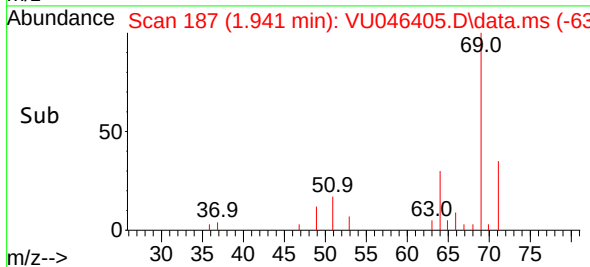
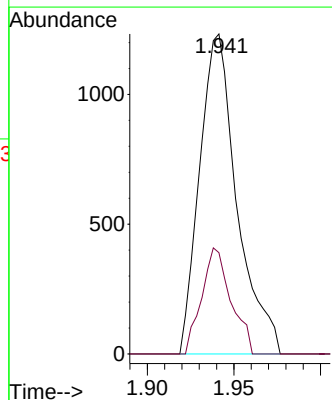
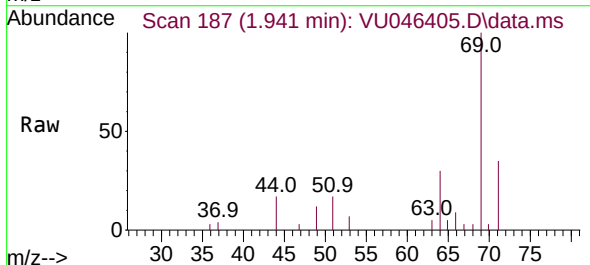
Instrument :
 MSVOA_U
 ClientSampleId :

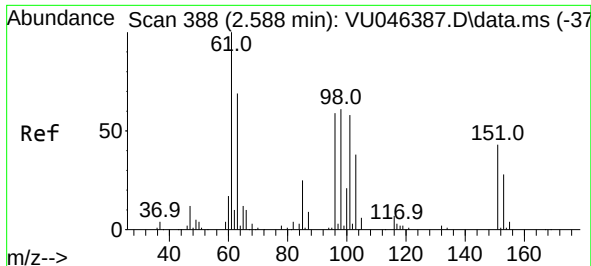
Tgt Ion: 62 Resp: 33584
 Ion Ratio Lower Upper
 62 100
 64 32.5 22.9 42.5



#8
 Chloroethane
 Concen: 2.143 ug/L
 RT: 1.941 min Scan# 187
 Delta R.T. -0.000 min
 Lab File: VU046405.D
 Acq: 15 Dec 2021 18:46

Tgt Ion: 64 Resp: 1850
 Ion Ratio Lower Upper
 64 100
 66 31.6 22.5 41.9

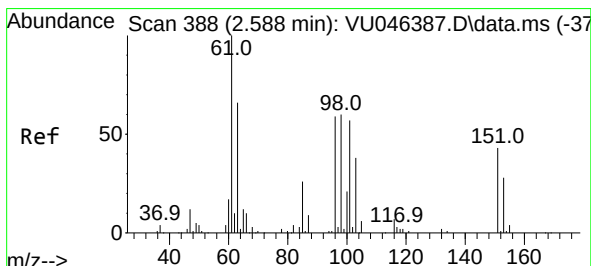
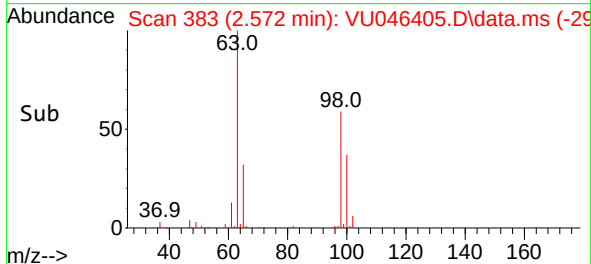
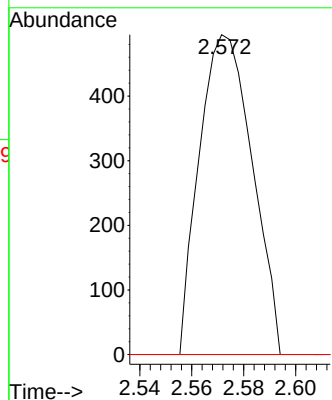
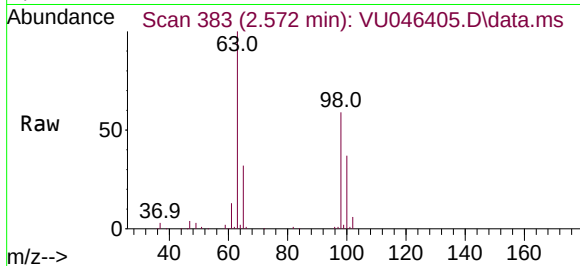




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.634 ug/L
RT: 2.572 min Scan# 383
Delta R.T. -0.016 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

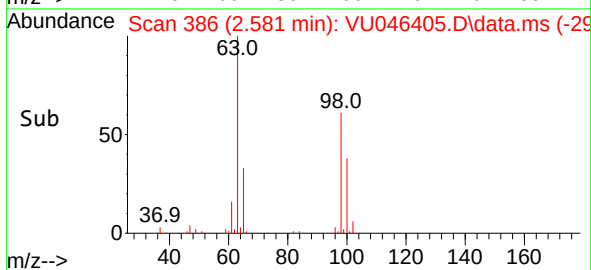
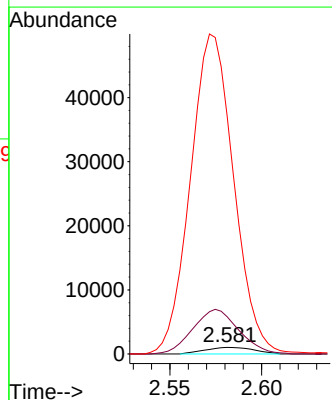
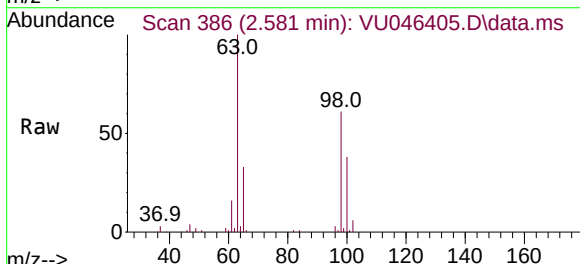
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MSVOA_U
ClientSampleId :

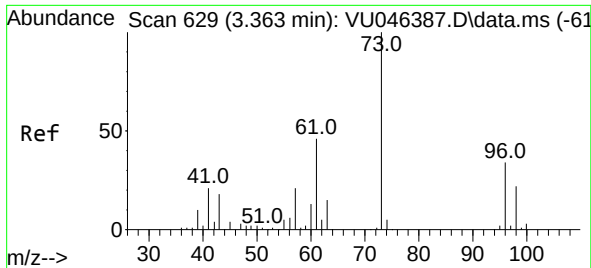
Tgt Ion:101 Resp: 701
Ion Ratio Lower Upper
101 100
85 0.0 35.1 52.7#
151 0.0 56.7 85.1#



#12
1,1-Dichloroethene
Concen: 1.819 ug/L
RT: 2.581 min Scan# 386
Delta R.T. -0.007 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

Tgt Ion: 96 Resp: 1911
Ion Ratio Lower Upper
96 100
61 566.5 118.6 220.2#
63 3631.6 93.0 172.8#

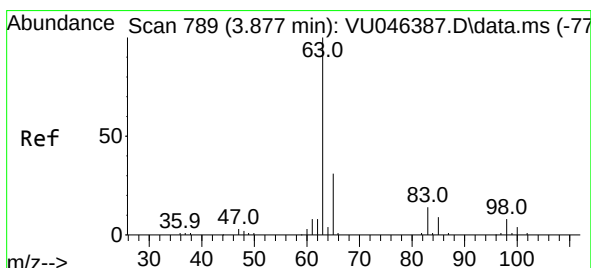
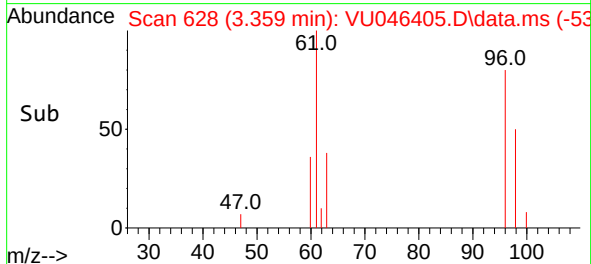
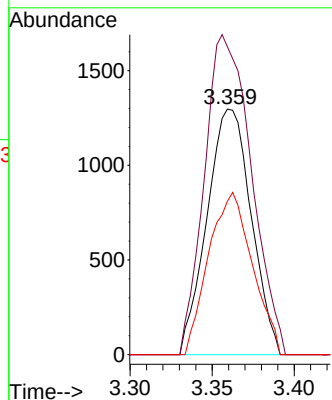
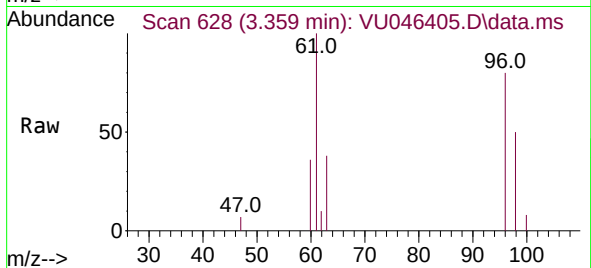




#17
trans-1,2-Dichloroethene
Concen: 2.186 ug/L
RT: 3.359 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

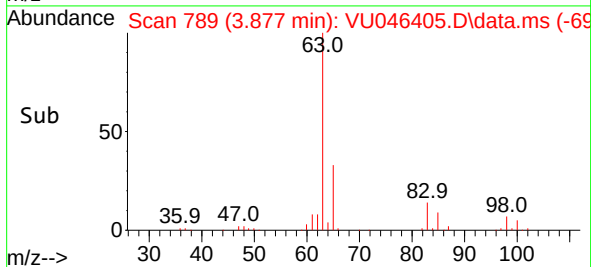
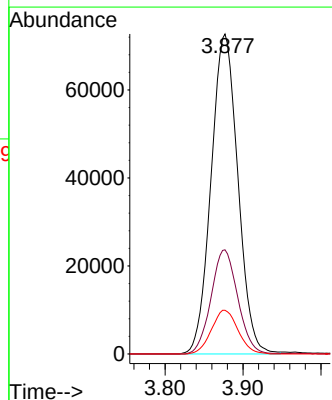
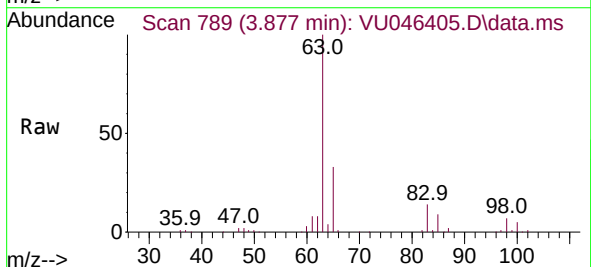
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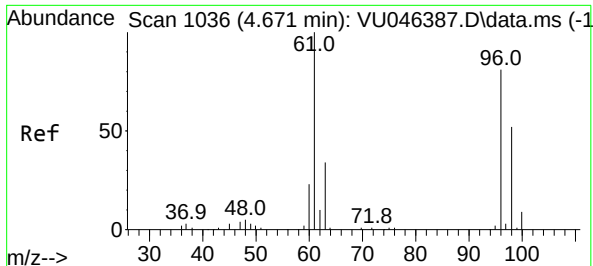
Tgt Ion: 96 Resp: 2430
Ion Ratio Lower Upper
96 100
61 125.4 94.6 175.6
98 62.5 44.0 81.8



#19
1,1-Dichloroethane
Concen: 86.011 ug/L
RT: 3.877 min Scan# 789
Delta R.T. -0.000 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

Tgt Ion: 63 Resp: 173855
Ion Ratio Lower Upper
63 100
65 32.6 22.8 42.4
83 13.6 9.6 17.8

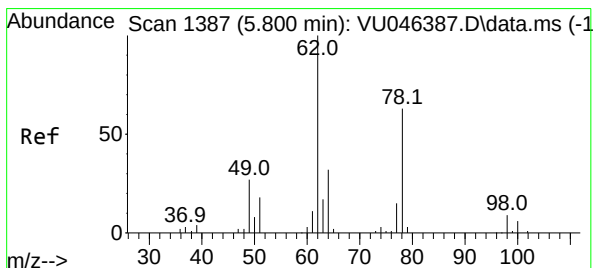
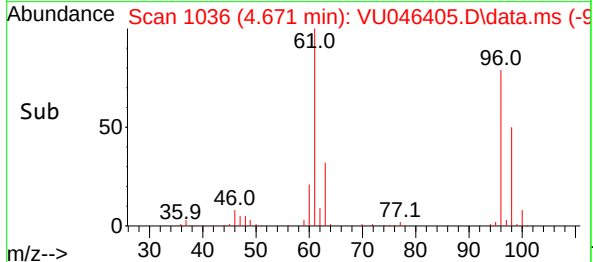
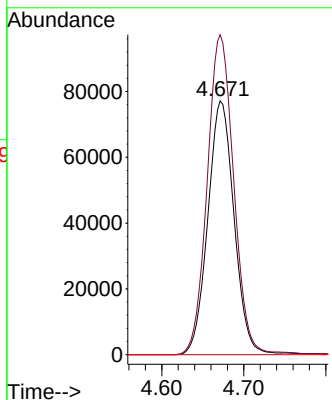
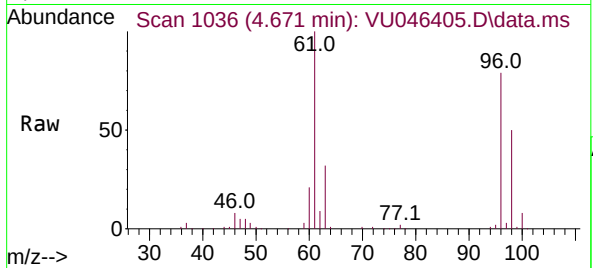




#20
 cis-1,2-Dichloroethene
 Concen: 141.877 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. -0.000 min
 Lab File: VU046405.D
 Acq: 15 Dec 2021 18:46

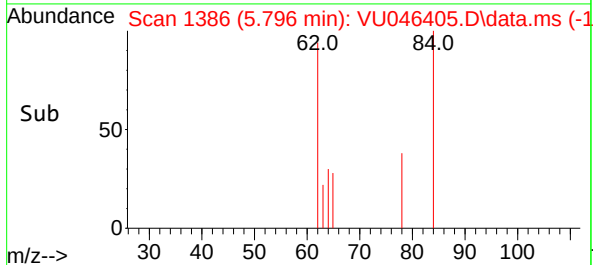
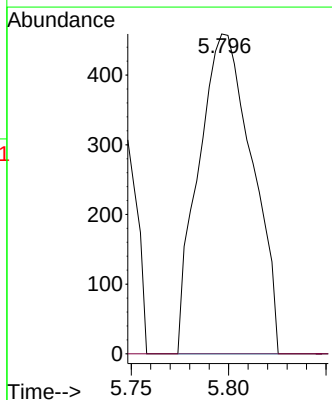
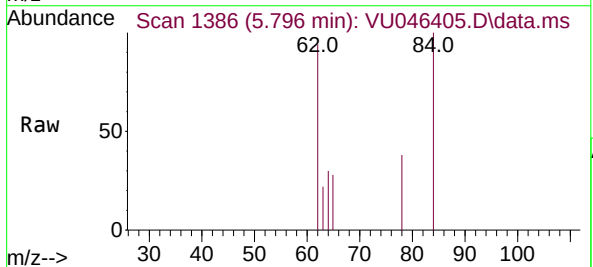
Instrument :
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 ClientSampleId :

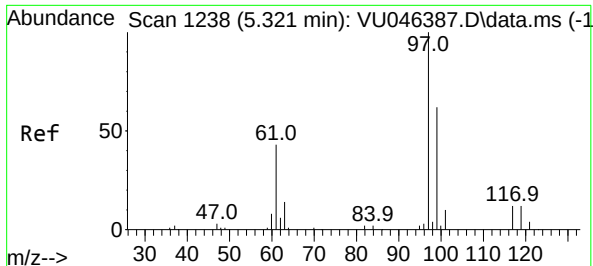
Tgt Ion: 96 Resp: 171141
 Ion Ratio Lower Upper
 96 100
 61 126.1 86.8 161.2
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 0.527 ug/L
 RT: 5.796 min Scan# 1386
 Delta R.T. -0.003 min
 Lab File: VU046405.D
 Acq: 15 Dec 2021 18:46

Tgt Ion: 62 Resp: 878
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.9 11.9#





#30

1,1,1-Trichloroethane

Concen: 4.881 ug/L

RT: 5.321 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU046405.D

Acq: 15 Dec 2021 18:46

Instrument :

MSVOA_U

ClientSampleId :

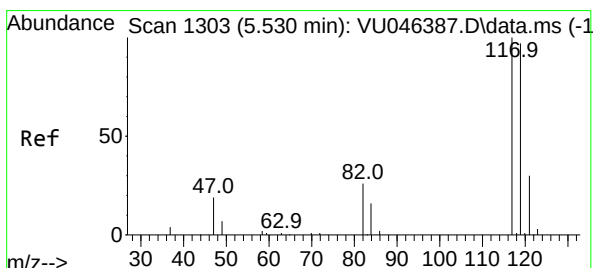
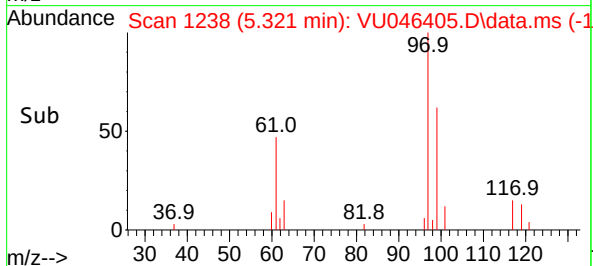
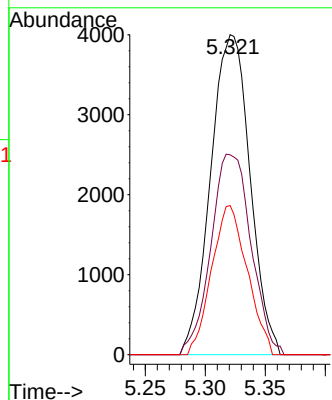
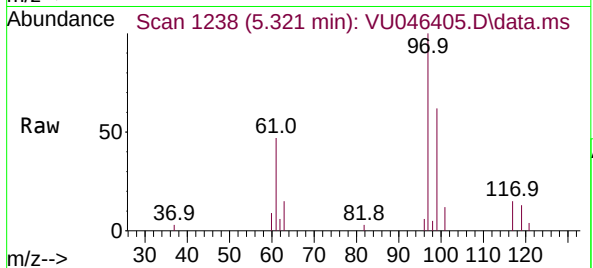
Tgt Ion: 97 Resp: 9139

Ion Ratio Lower Upper

97 100

99 63.9 51.8 77.6

61 42.1 34.4 51.6



#31

Carbon tetrachloride

Concen: 0.698 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.209 min

Lab File: VU046405.D

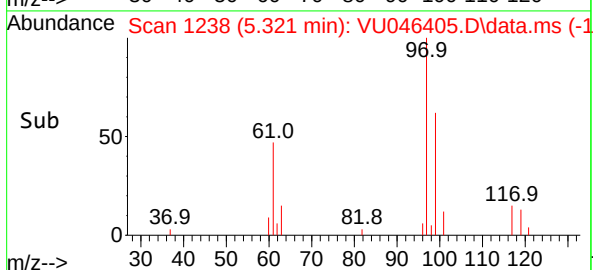
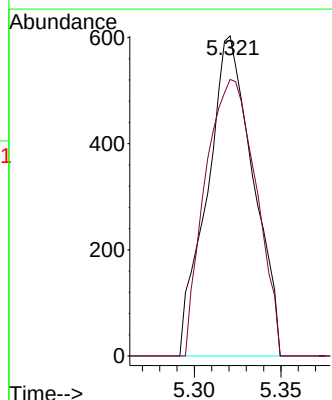
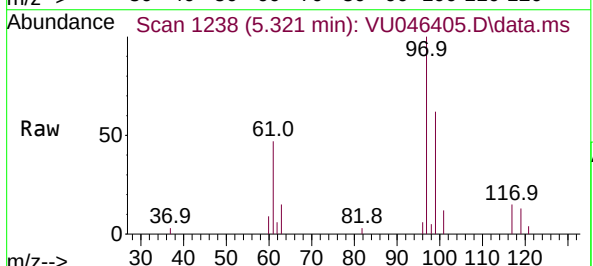
Acq: 15 Dec 2021 18:46

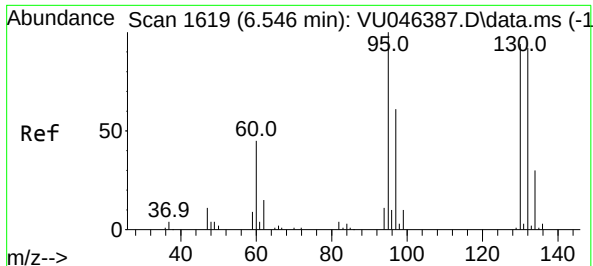
Tgt Ion: 117 Resp: 1109

Ion Ratio Lower Upper

117 100

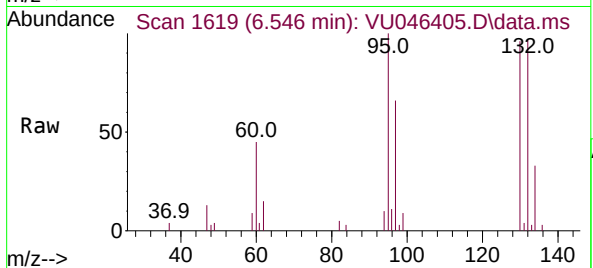
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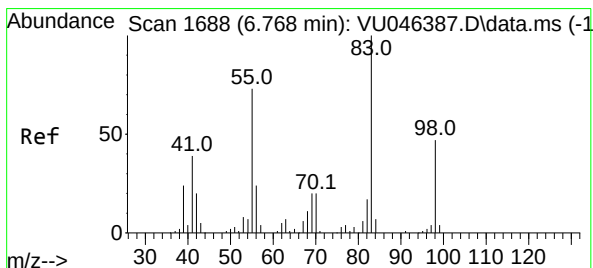
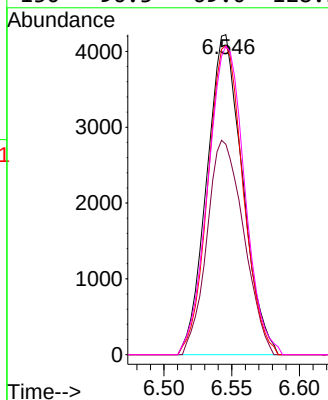
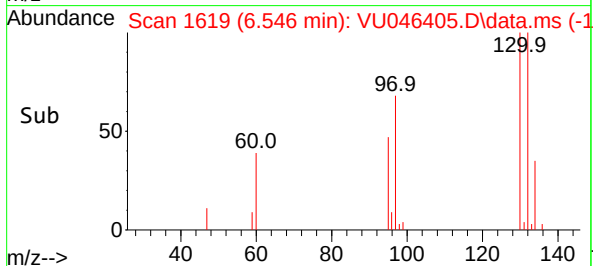
#34
Trichloroethene
Concen: 6.347 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

Instrument :
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ClientSampleId :

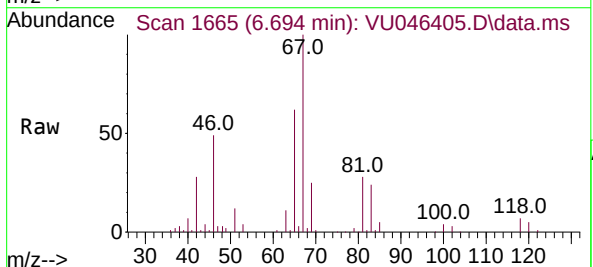


Tgt Ion: 95 Resp: 7719

Ion	Ratio	Lower	Upper
95	100		
97	65.7	44.1	81.9
132	96.5	66.8	124.0
130	96.3	69.0	128.1

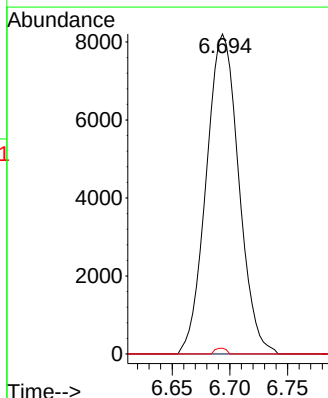
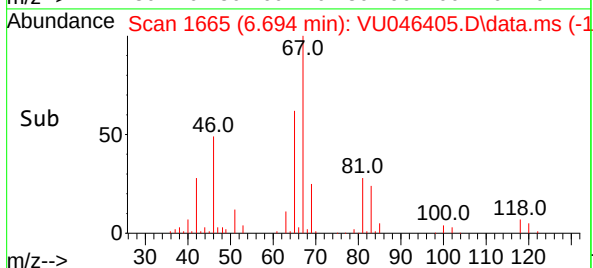


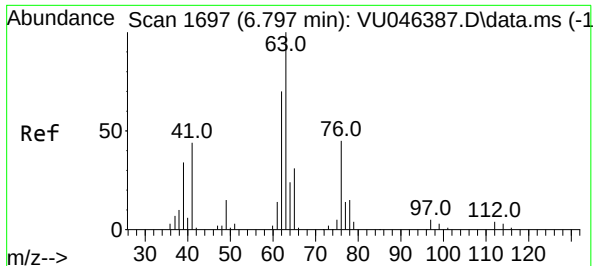
#35
Methylcyclohexane
Concen: 8.528 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.074 min
Lab File: VU046405.D
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Tgt Ion: 83 Resp: 16081

Ion	Ratio	Lower	Upper
83	100		
55	0.0	57.8	86.6#
98	0.6	38.4	57.6#





#37

1,2-Dichloropropane

Concen: 6.040 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU046405.D

Acq: 15 Dec 2021 18:46

Instrument :

MSVOA_U

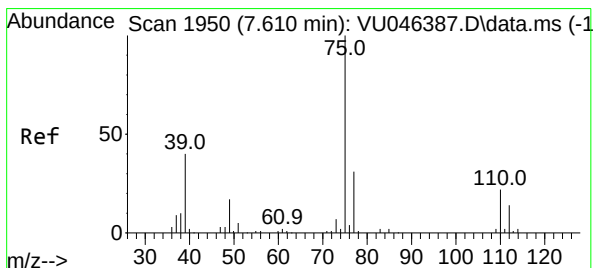
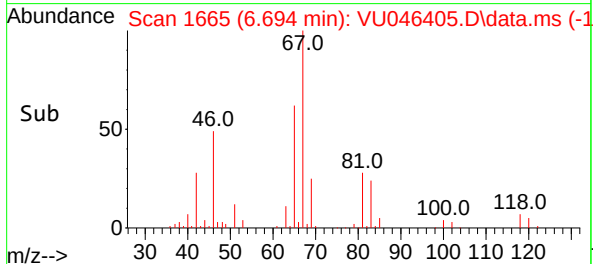
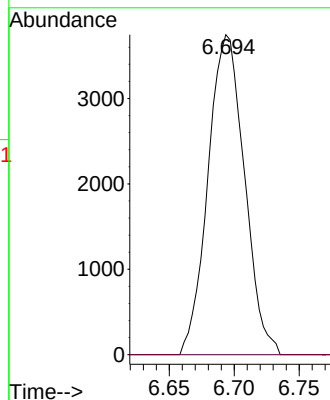
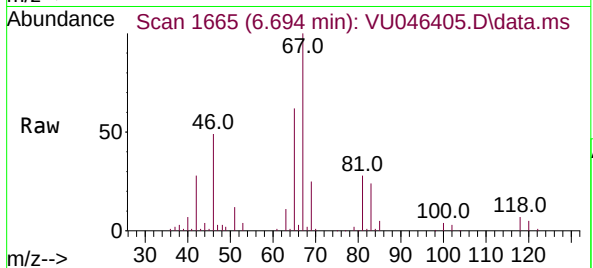
ClientSampleId :

Tgt Ion: 63 Resp: 7304

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.971 ug/L

RT: 7.571 min Scan# 1938

Delta R.T. -0.039 min

Lab File: VU046405.D

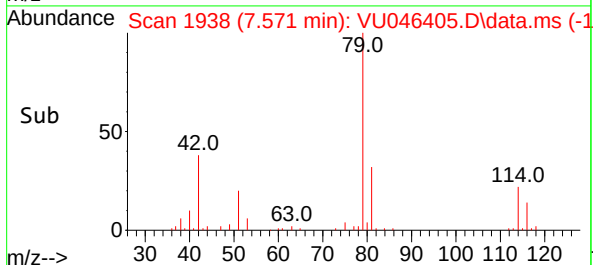
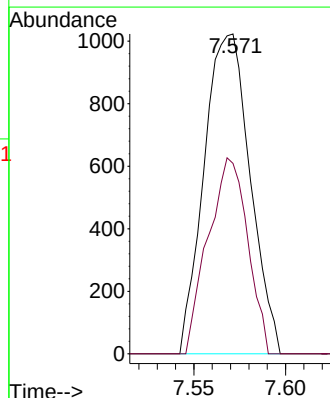
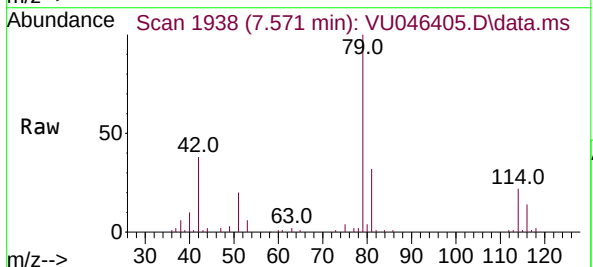
Acq: 15 Dec 2021 18:46

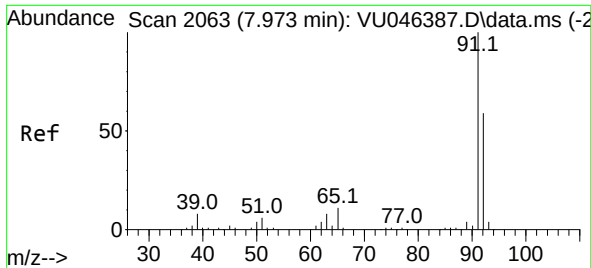
Tgt Ion: 75 Resp: 1786

Ion Ratio Lower Upper

75 100

77 59.5 21.8 40.6#

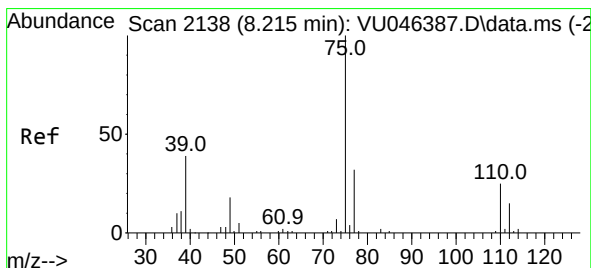
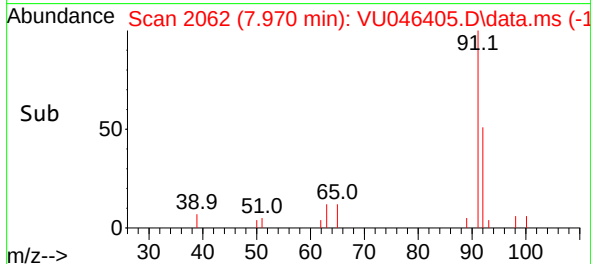
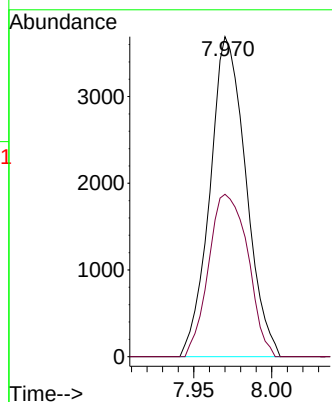
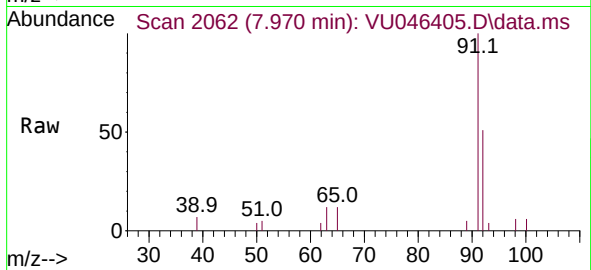




#42
Toluene
Concen: 1.194 ug/L
RT: 7.970 min Scan# 2063
Delta R.T. -0.003 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

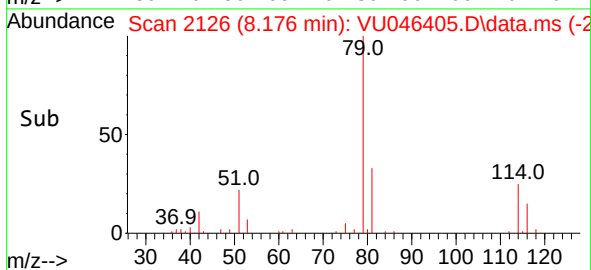
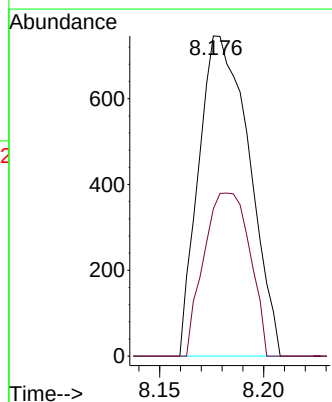
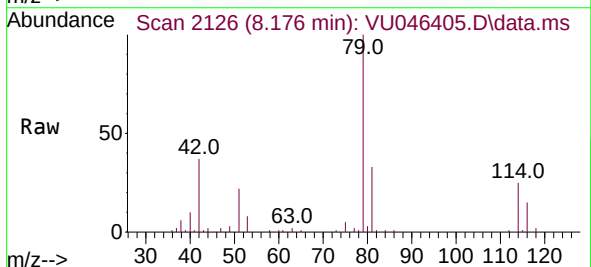
Instrument :
MSVOA_U
ClientSampleId :

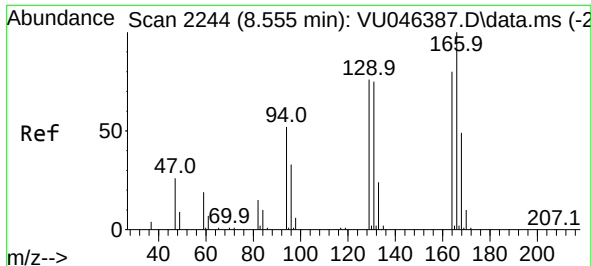
Tgt Ion: 91 Resp: 5914
Ion Ratio Lower Upper
91 100
92 50.7 41.9 77.7



#44
trans-1,3-Dichloropropene
Concen: 0.693 ug/L
RT: 8.176 min Scan# 2126
Delta R.T. -0.039 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

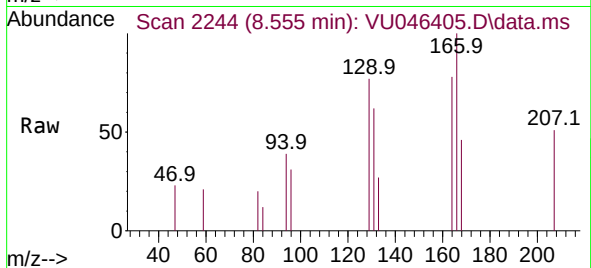
Tgt Ion: 75 Resp: 1253
Ion Ratio Lower Upper
75 100
77 46.0 21.7 40.3#



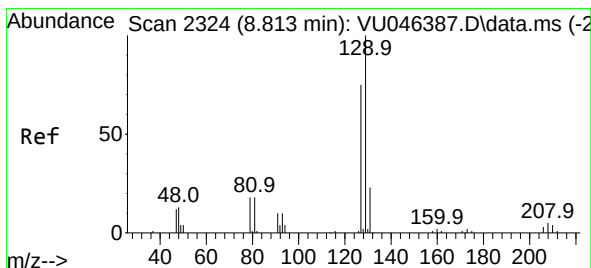
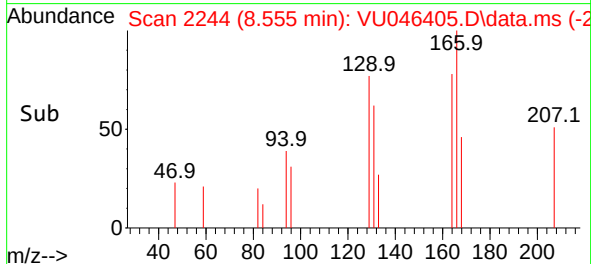
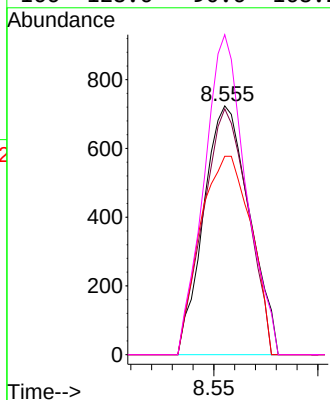


#46
Tetrachloroethene
Concen: 1.243 ug/L
RT: 8.555 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

Instrument :
MSVOA_U
ClientSampleId :

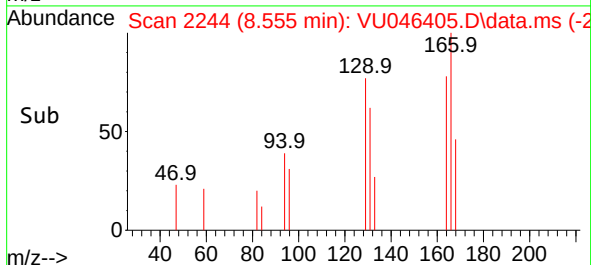
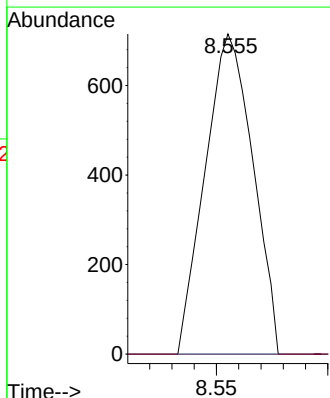
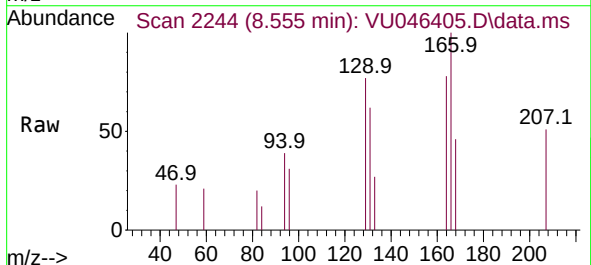


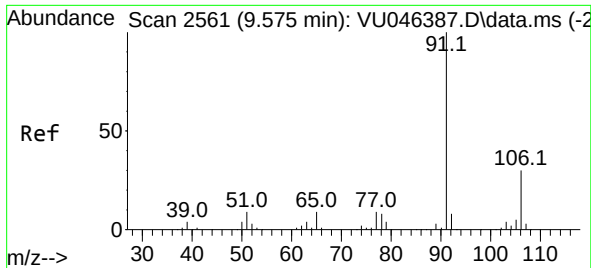
Tgt Ion:164 Resp: 1111
Ion Ratio Lower Upper
164 100
129 98.8 71.1 132.1
131 79.7 67.8 126.0
166 128.6 90.6 168.2



#49
Dibromochloromethane
Concen: 0.836 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.257 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

Tgt Ion:129 Resp: 1065
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.4#

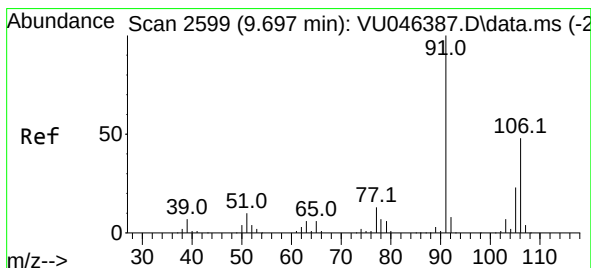
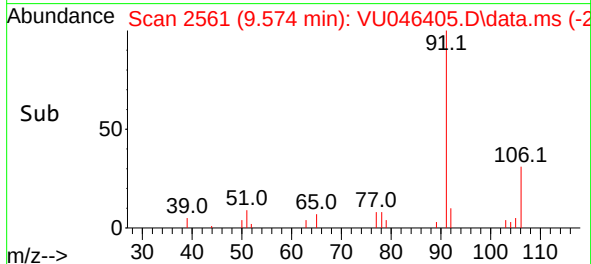
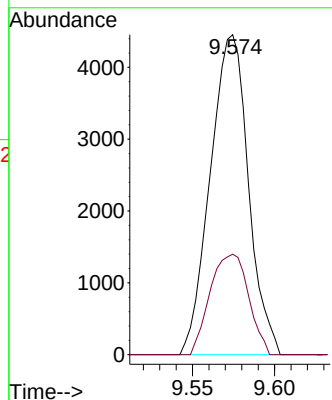
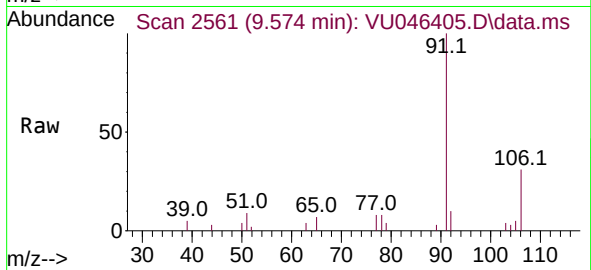




#52
Ethylbenzene
Concen: 1.349 ug/L
RT: 9.574 min Scan# 2561
Delta R.T. -0.000 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

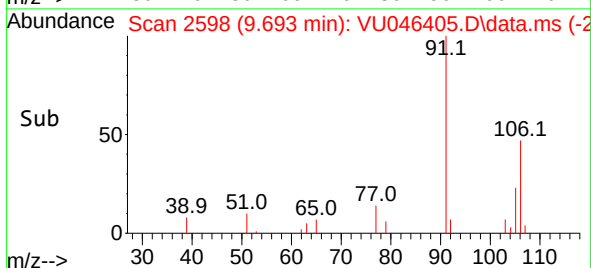
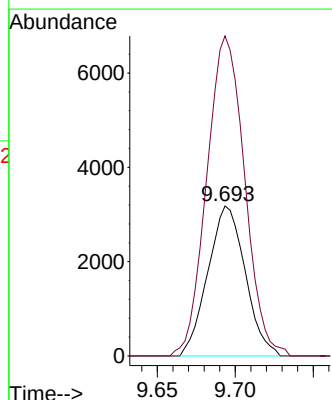
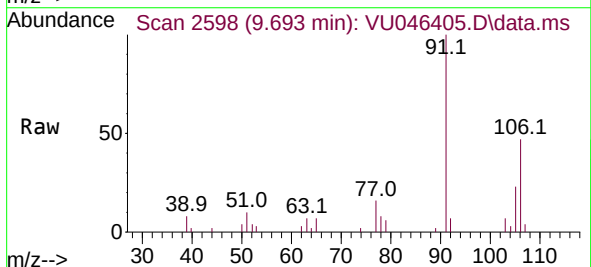
Instrument :
MSVOA_U
ClientSampleId :

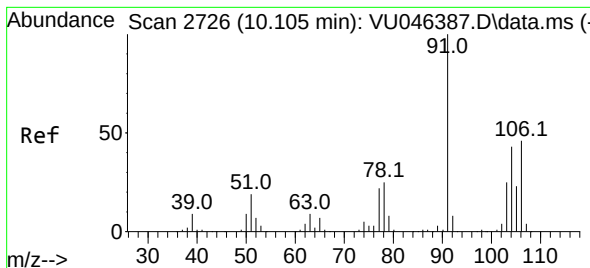
Tgt Ion: 91 Resp: 7191
Ion Ratio Lower Upper
91 100
106 31.4 21.1 39.3



#53
m,p-Xylene
Concen: 2.549 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046405.D
Acq: 15 Dec 2021 18:46

Tgt Ion: 106 Resp: 5300
Ion Ratio Lower Upper
106 100
91 213.5 144.3 268.1





#54

o-xylene

Concen: 3.104 ug/L

RT: 10.105 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU046405.D

Acq: 15 Dec 2021 18:46

Instrument :

MSVOA_U

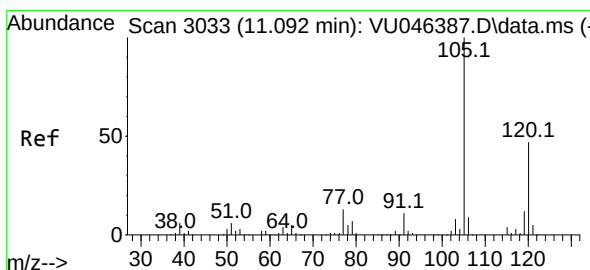
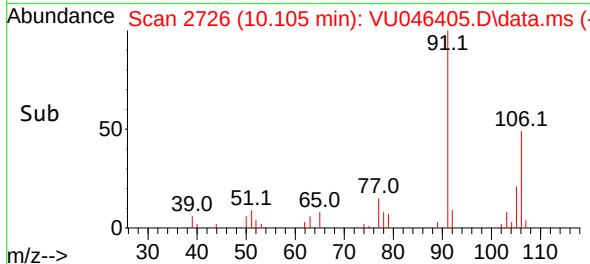
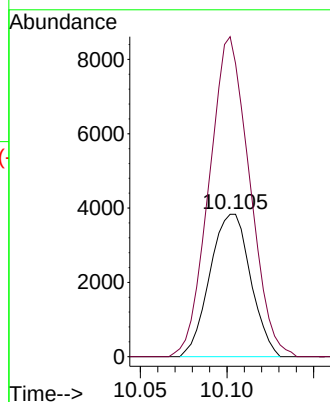
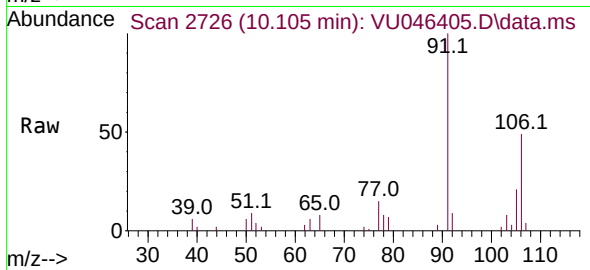
ClientSampleId :

Tgt Ion:106 Resp: 6262

Ion Ratio Lower Upper

106 100

91 205.8 154.2 286.4



#62

1,3,5-Trimethylbenzene

Concen: 1.615 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. -0.003 min

Lab File: VU046405.D

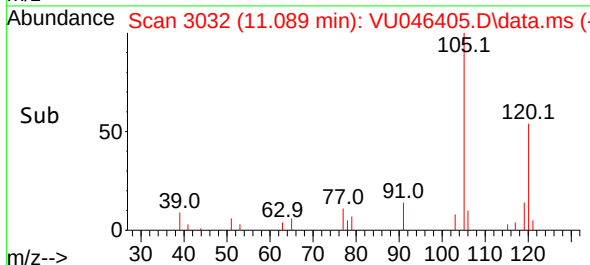
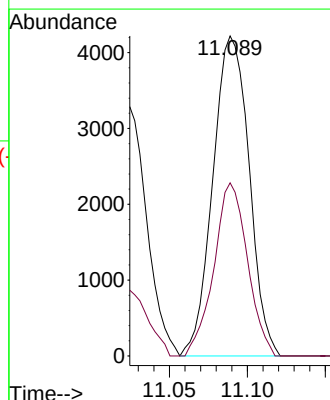
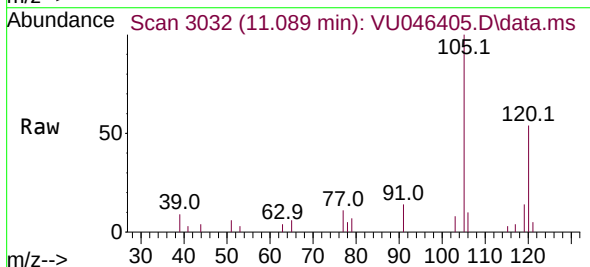
Acq: 15 Dec 2021 18:46

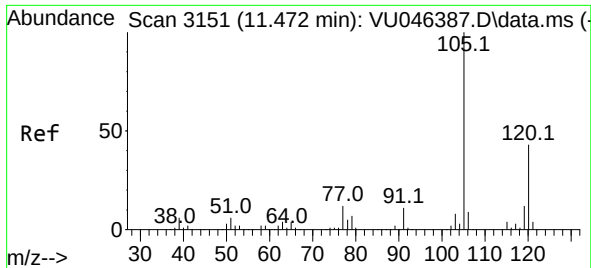
Tgt Ion:105 Resp: 6822

Ion Ratio Lower Upper

105 100

120 50.0 37.8 56.6





#63

1,2,4-Trimethylbenzene

Concen: 8.263 ug/L

RT: 11.468 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU046405.D

Acq: 15 Dec 2021 18:46

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:105 Resp: 34929

Ion Ratio Lower Upper

105 100

120 44.3 35.2 52.8

