

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121121\
 Data File : VU046297.D
 Acq On : 11 Dec 2021 19:12
 Operator : SY/MD
 Sample : M4983-19DL 5X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 12 04:07:44 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	158386	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	162625	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.815	152	81226	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	46038	35.286	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.580%
7) Chloroethane-d5	1.916	69	40207	40.137	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.280%
11) 1,1-Dichloroethene-d2	2.571	63	79501	33.943	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.880%
21) 2-Butanone-d5	4.639	46	113581	109.510	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.510%
24) Chloroform-d	5.067	84	100519	46.135	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.280%
26) 1,2-Dichloroethane-d4	5.703	65	73084	49.982	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.960%
32) Benzene-d6	5.732	84	204707	43.918	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.840%
36) 1,2-Dichloropropane-d6	6.693	67	68391	47.344	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.680%
41) Toluene-d8	7.899	98	173015	40.768	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.540%
43) trans-1,3-Dichloroprop...	8.182	79	31994	45.880	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.760%
47) 2-Hexanone-d5	8.636	63	78401	114.467	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	114.470%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	114688	52.351	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.700%
66) 1,2-Dichlorobenzene-d4	12.195	152	76782	49.085	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.160%
Target Compounds						
9) Trichlorofluoromethane	2.141	101	821	0.405	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.571	101	520	0.451	ug/L #	21
12) 1,1-Dichloroethene	2.584	96	27127	24.770	ug/L	88
16) Methylene chloride	3.051	84	5433	4.170	ug/L	95
17) trans-1,2-Dichloroethene	3.359	96	692	0.597	ug/L	94
19) 1,1-Dichloroethane	3.874	63	49931	23.695	ug/L	100
20) cis-1,2-Dichloroethene	4.671	96	35725	28.409	ug/L	98
25) Chloroform	5.092	83	11681	4.989	ug/L	100
30) 1,1,1-Trichloroethane	5.321	97	144420	72.346	ug/L	100
31) Carbon tetrachloride	5.530	117	1596	0.942	ug/L	92
34) Trichloroethene	6.546	95	30500	23.522	ug/L	99
35) Methylcyclohexane	6.693	83	17198	8.554	ug/L #	20
37) 1,2-Dichloropropane	6.697	63	7551	5.856	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	1994	1.017	ug/L #	61
44) trans-1,3-Dichloropropene	8.182	75	1325	0.688	ug/L #	74
45) 1,1,2-Trichloroethane	8.407	97	627	0.485	ug/L	95
46) Tetrachloroethene	8.555	164	15501	16.267	ug/L	90
49) Dibromochloromethane	8.555	129	14508	10.680	ug/L #	10
60) 1,2,3-Trichloropropane	11.812	75	9726	5.462	ug/L #	66

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QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

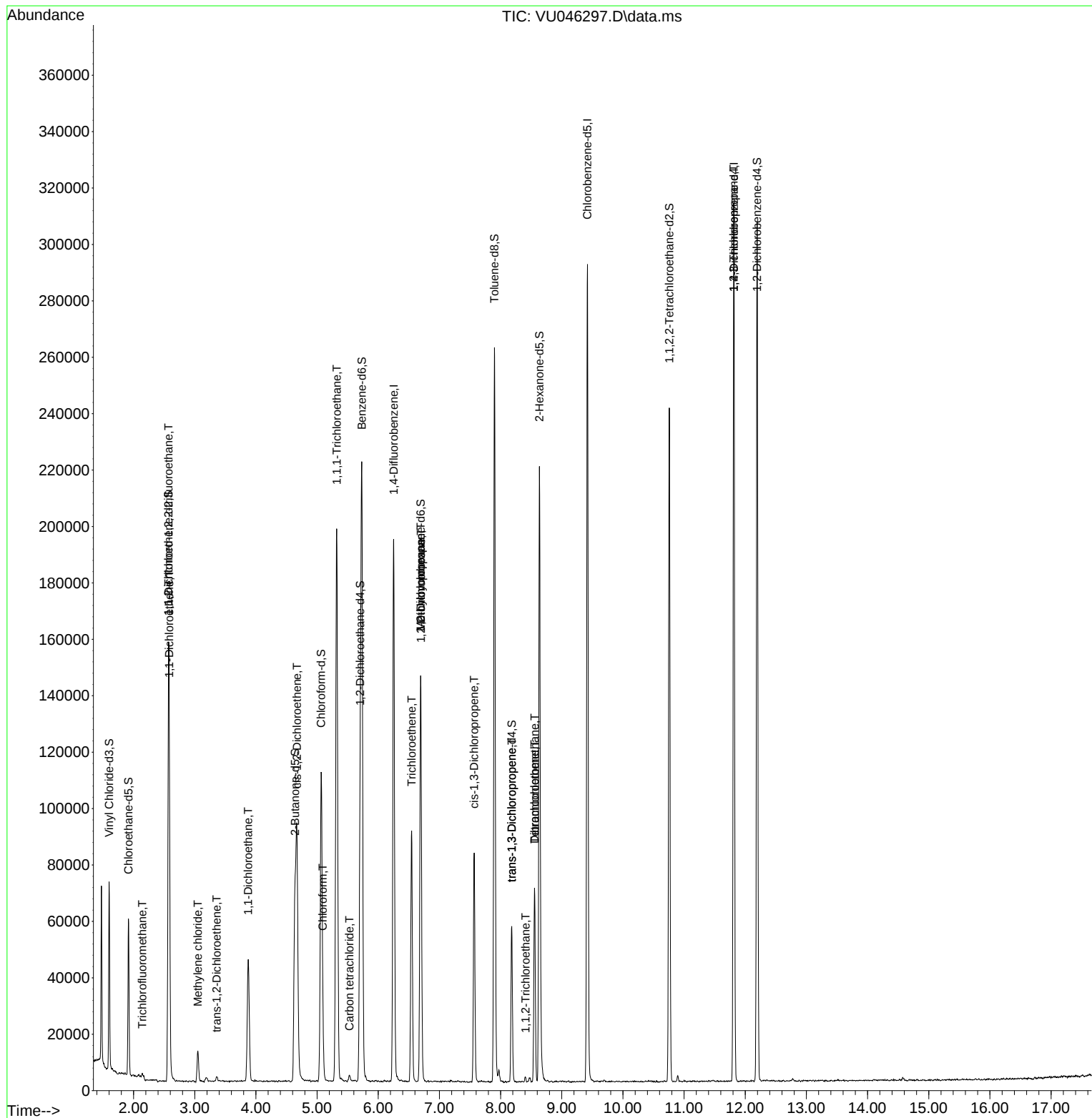
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

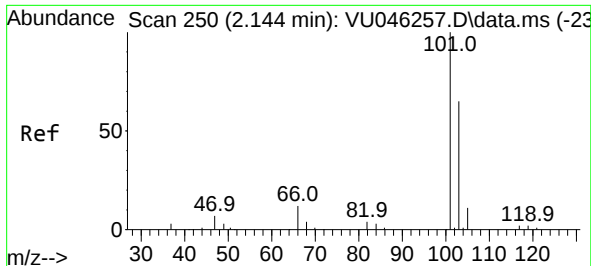
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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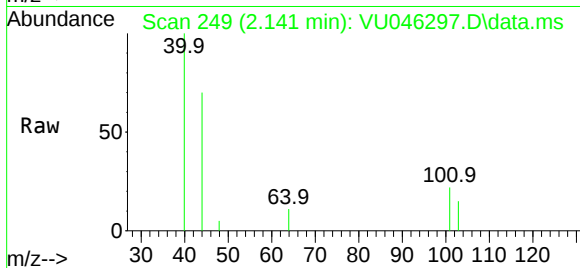
Quant Time: Dec 12 04:07:44 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis
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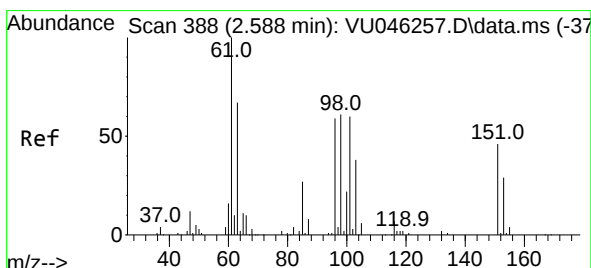
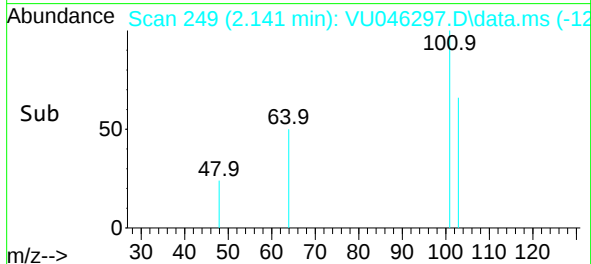
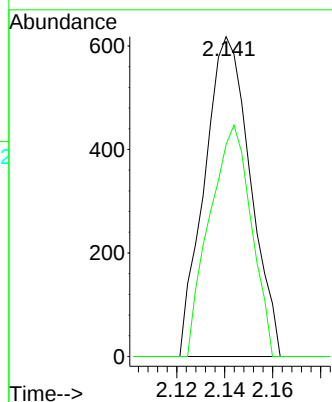


#9
 Trichlorofluoromethane
 Concen: 0.405 ug/L
 RT: 2.141 min Scan# 249
 Delta R.T. -0.003 min
 Lab File: VU046297.D
 Acq: 11 Dec 2021 19:12

Instrument :
 MSVOA_U
 ClientSampleId :

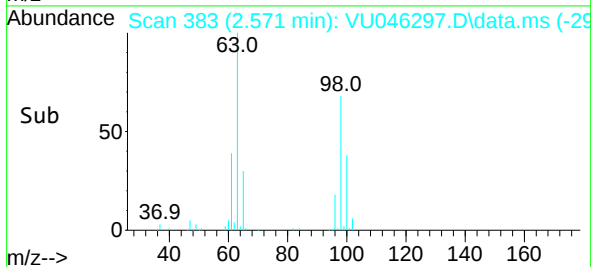
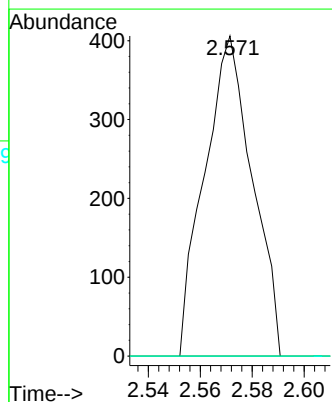
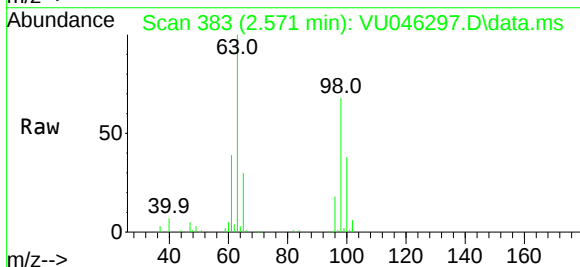


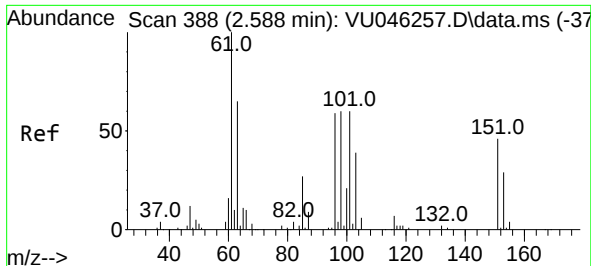
Tgt Ion:101 Resp: 821
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.8 77.6



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.451 ug/L
 RT: 2.571 min Scan# 383
 Delta R.T. -0.016 min
 Lab File: VU046297.D
 Acq: 11 Dec 2021 19:12

Tgt Ion:101 Resp: 520
 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: 24.770 ug/L

RT: 2.584 min Scan# 388

Delta R.T. -0.000 min

Lab File: VU046297.D

Acq: 11 Dec 2021 19:12

Instrument :

MSVOA_U

ClientSampleId :

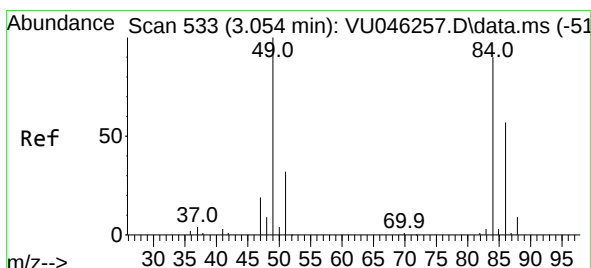
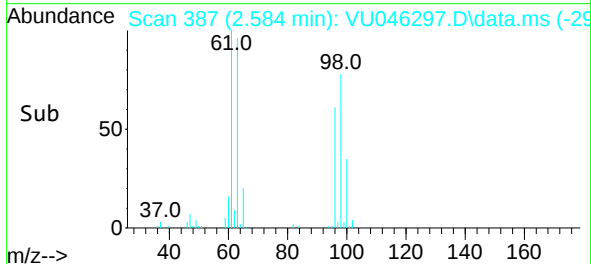
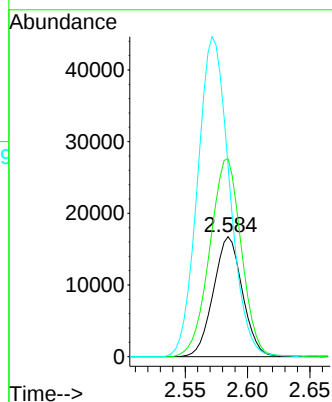
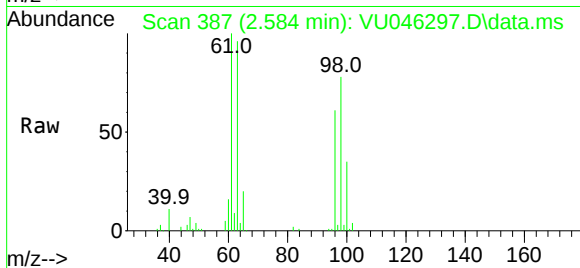
Tgt Ion: 96 Resp: 27127

Ion Ratio Lower Upper

96 100

61 165.0 118.6 220.2

63 159.1 93.0 172.8



#16

Methylene chloride

Concen: 4.170 ug/L

RT: 3.051 min Scan# 532

Delta R.T. -0.000 min

Lab File: VU046297.D

Acq: 11 Dec 2021 19:12

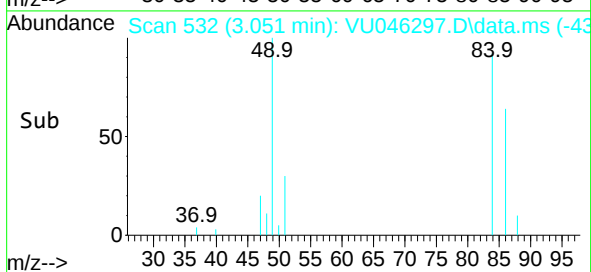
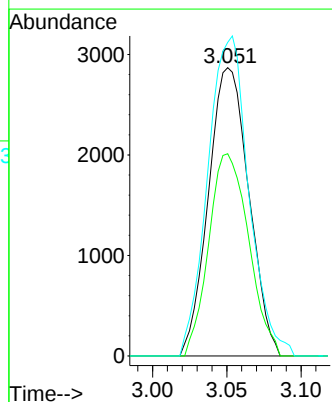
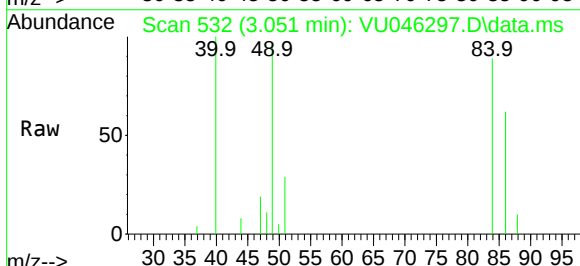
Tgt Ion: 84 Resp: 5433

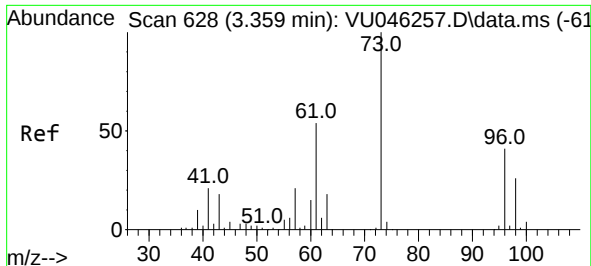
Ion Ratio Lower Upper

84 100

86 70.2 44.7 83.1

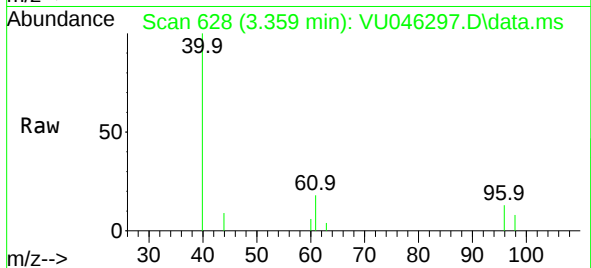
49 108.8 78.4 145.6



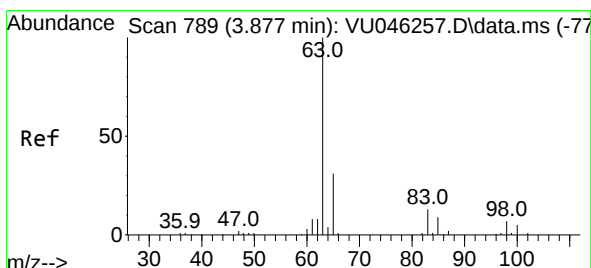
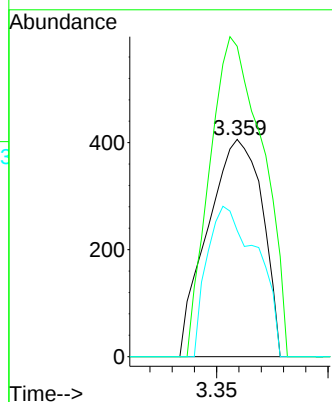
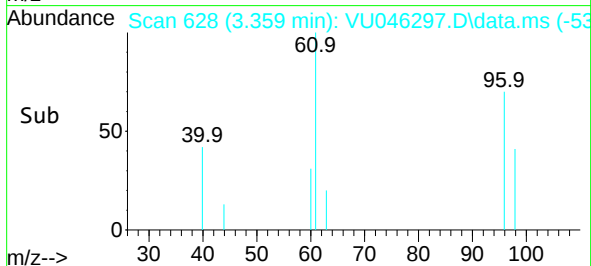


#17
trans-1,2-Dichloroethene
Concen: 0.597 ug/L
RT: 3.359 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU046297.D
Acq: 11 Dec 2021 19:12

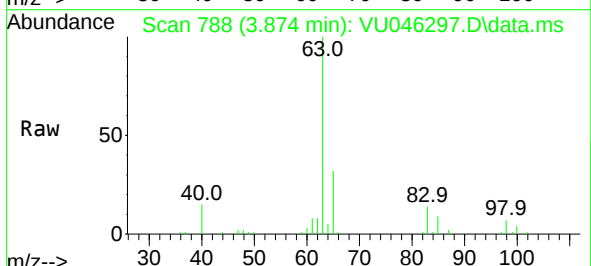
Instrument :
MSVOA_U
ClientSampleId :



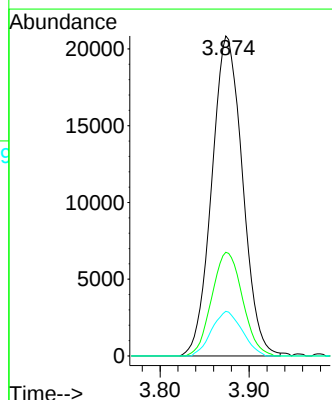
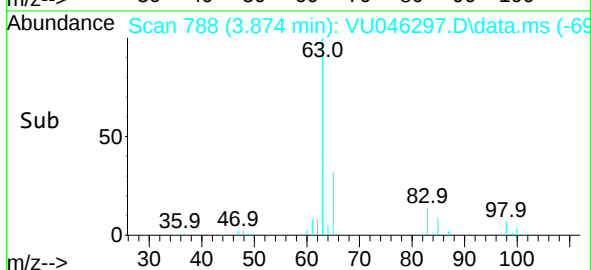
Tgt Ion: 96 Resp: 692
Ion Ratio Lower Upper
96 100
61 142.9 94.6 175.6
98 58.1 44.0 81.8

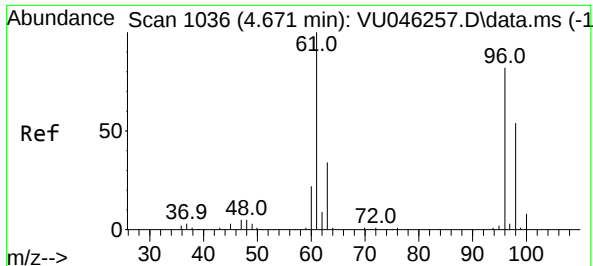


#19
1,1-Dichloroethane
Concen: 23.695 ug/L
RT: 3.874 min Scan# 788
Delta R.T. -0.003 min
Lab File: VU046297.D
Acq: 11 Dec 2021 19:12



Tgt Ion: 63 Resp: 49931
Ion Ratio Lower Upper
63 100
65 32.4 22.8 42.4
83 13.9 9.6 17.8

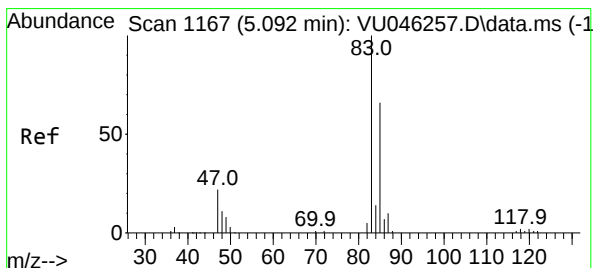
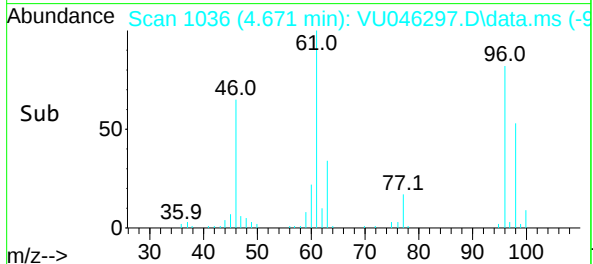
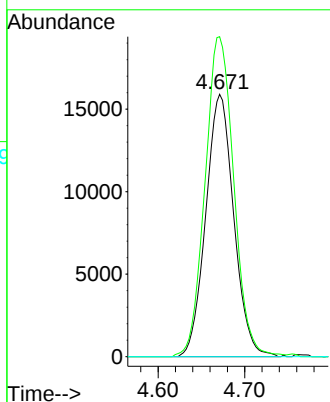
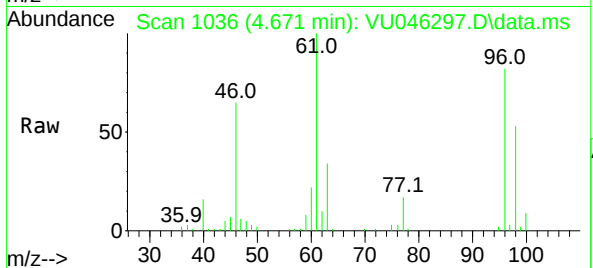




#20
 cis-1,2-Dichloroethene
 Concen: 28.409 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. -0.000 min
 Lab File: VU046297.D
 Acq: 11 Dec 2021 19:12

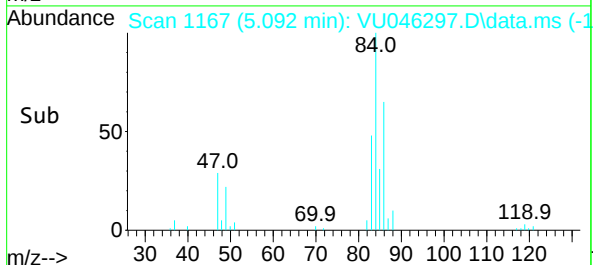
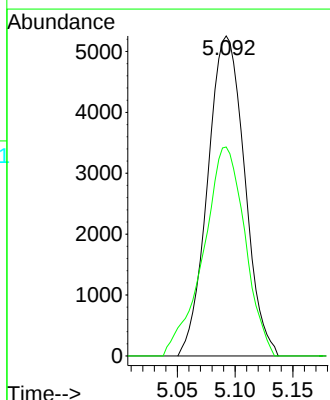
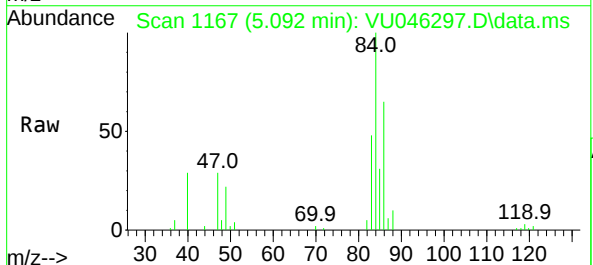
Instrument :
 MSVOA_U
 ClientSampleId :

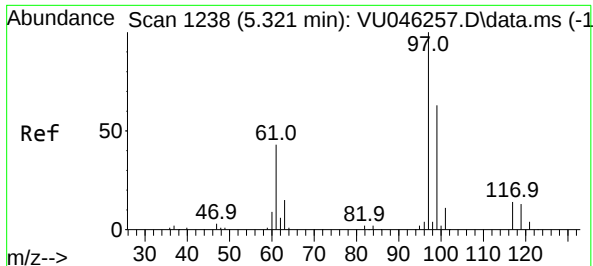
Tgt Ion: 96 Resp: 35725
 Ion Ratio Lower Upper
 96 100
 61 122.0 86.8 161.2
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 4.989 ug/L
 RT: 5.092 min Scan# 1167
 Delta R.T. -0.000 min
 Lab File: VU046297.D
 Acq: 11 Dec 2021 19:12

Tgt Ion: 83 Resp: 11681
 Ion Ratio Lower Upper
 83 100
 85 65.3 45.8 85.2





#30

1,1,1-Trichloroethane

Concen: 72.346 ug/L

RT: 5.321 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU046297.D

Acq: 11 Dec 2021 19:12

Instrument :

MSVOA_U

ClientSampleId :

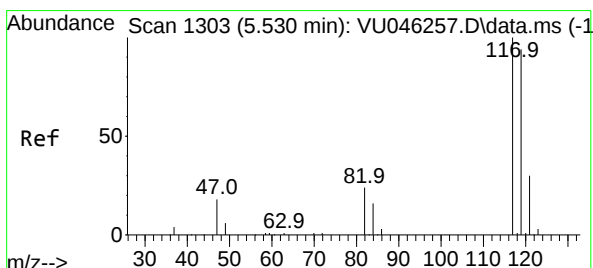
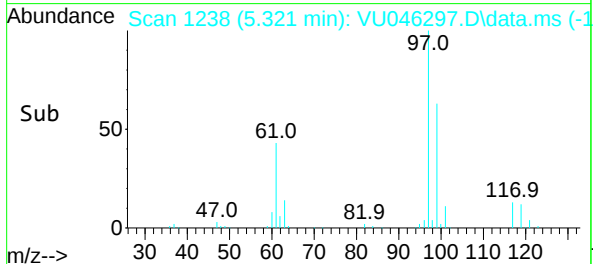
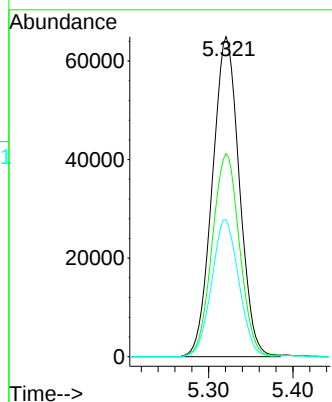
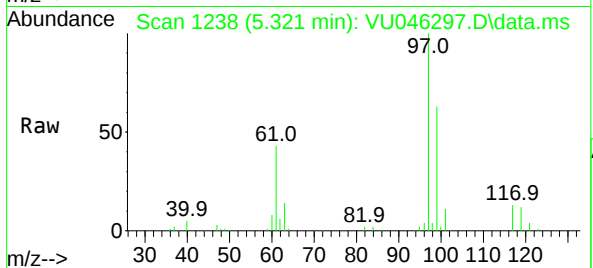
Tgt Ion: 97 Resp: 144420

Ion Ratio Lower Upper

97 100

99 64.3 51.8 77.6

61 43.1 34.4 51.6



#31

Carbon tetrachloride

Concen: 0.942 ug/L

RT: 5.530 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VU046297.D

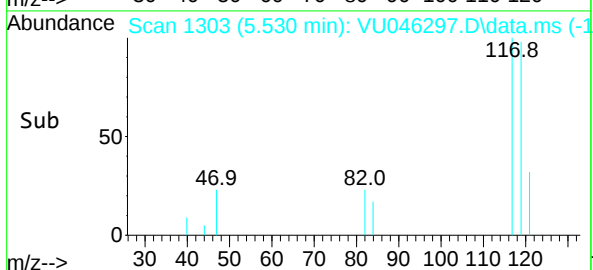
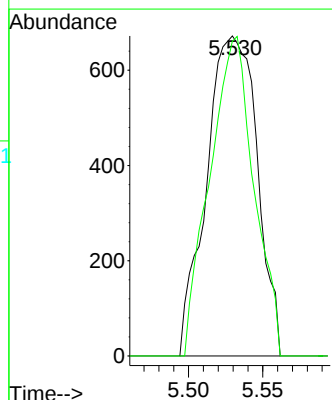
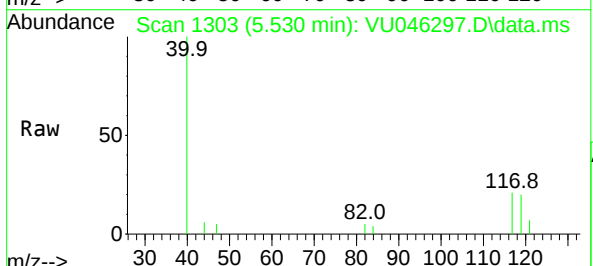
Acq: 11 Dec 2021 19:12

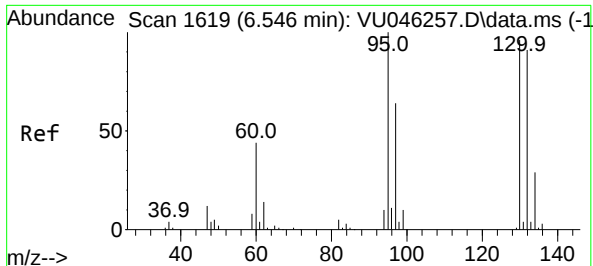
Tgt Ion: 117 Resp: 1596

Ion Ratio Lower Upper

117 100

119 87.3 75.7 113.5



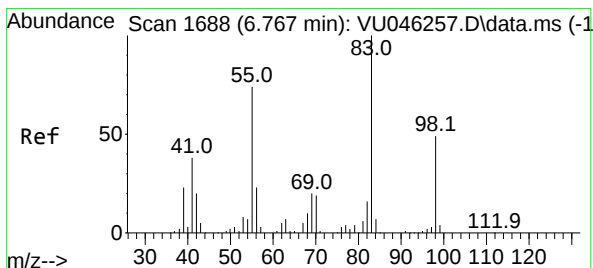
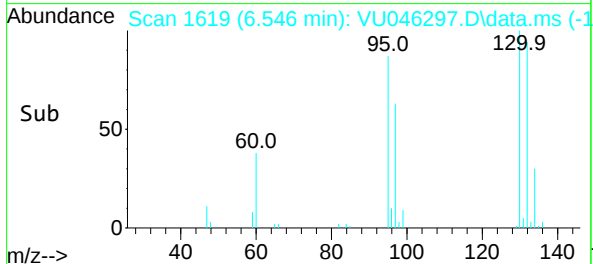
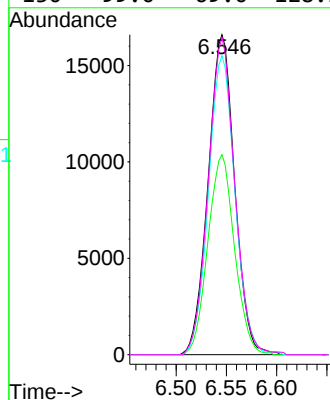
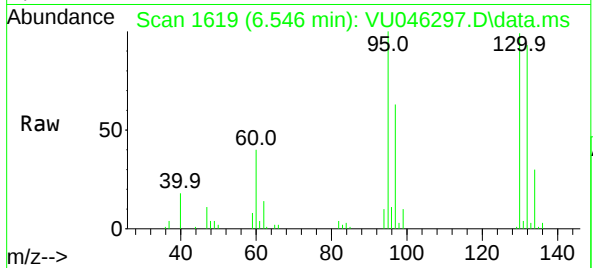


#34
Trichloroethene
Concen: 23.522 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU046297.D
Acq: 11 Dec 2021 19:12

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 95 Resp: 30500

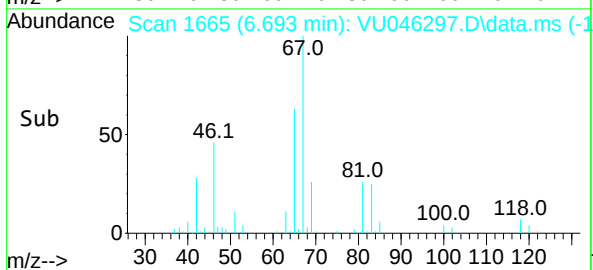
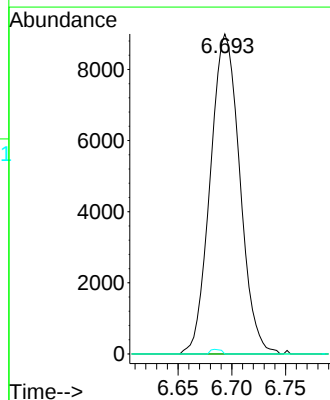
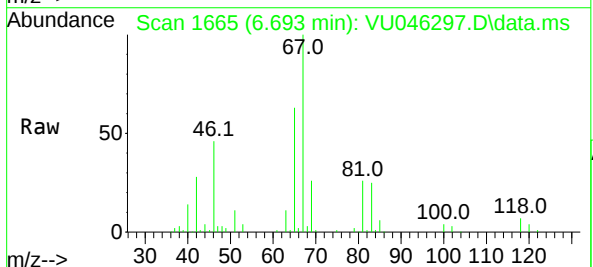
Ion	Ratio	Lower	Upper
95	100		
97	62.5	44.1	81.9
132	93.4	66.8	124.0
130	99.0	69.0	128.1

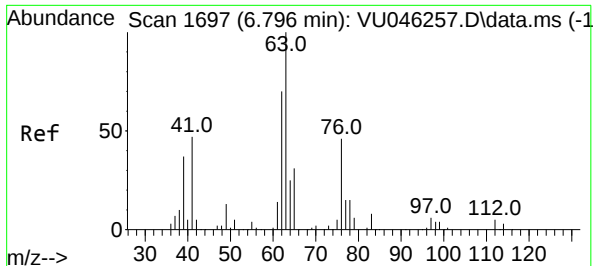


#35
Methylcyclohexane
Concen: 8.554 ug/L
RT: 6.693 min Scan# 1665
Delta R.T. -0.074 min
Lab File: VU046297.D
Acq: 11 Dec 2021 19:12

Tgt Ion: 83 Resp: 17198

Ion	Ratio	Lower	Upper
83	100		
55	0.0	57.8	86.6#
98	0.5	38.4	57.6#





#37

1,2-Dichloropropane

Concen: 5.856 ug/L

RT: 6.697 min Scan# 1

Delta R.T. -0.097 min

Lab File: VU046297.D

Acq: 11 Dec 2021 19:12

Instrument :

MSVOA_U

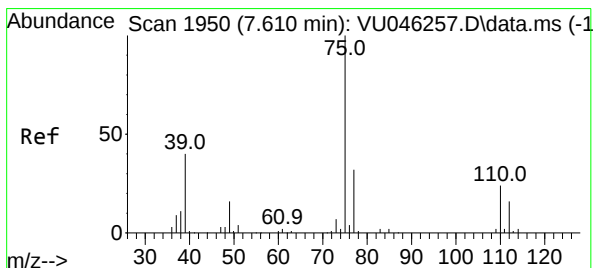
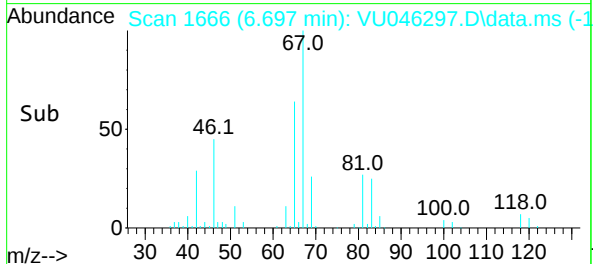
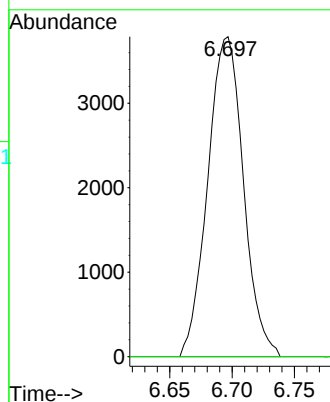
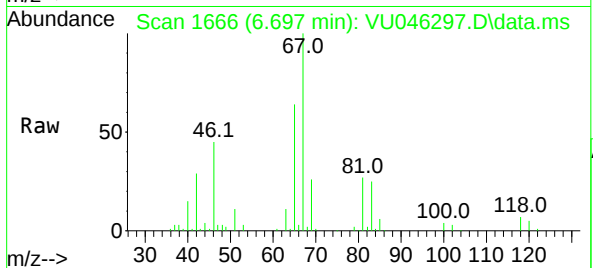
ClientSampleId :

Tgt Ion: 63 Resp: 7551

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 1.017 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU046297.D

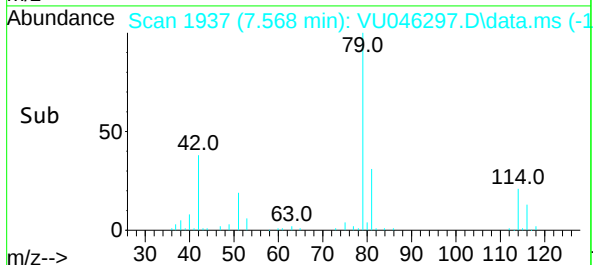
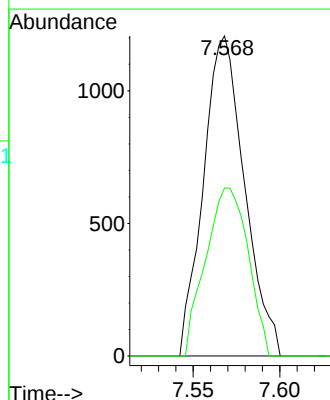
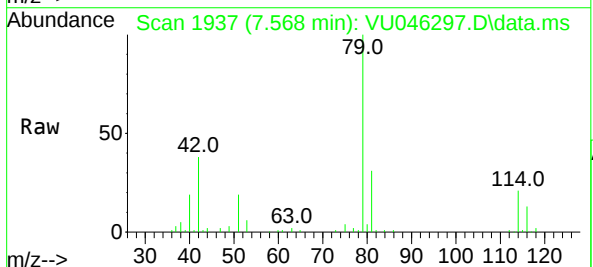
Acq: 11 Dec 2021 19:12

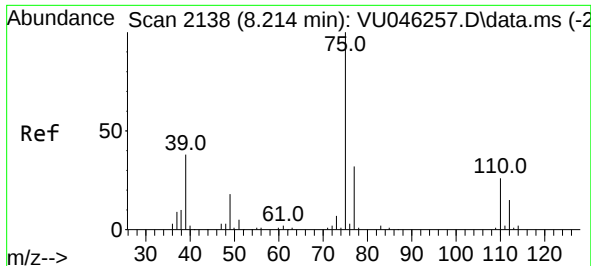
Tgt Ion: 75 Resp: 1994

Ion Ratio Lower Upper

75 100

77 52.5 21.8 40.6#

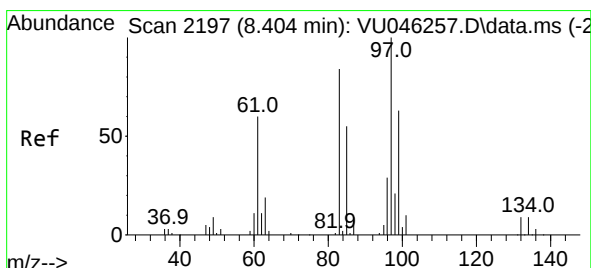
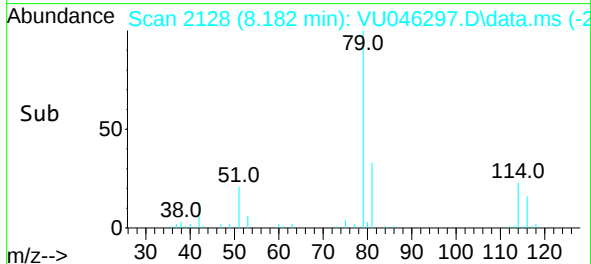
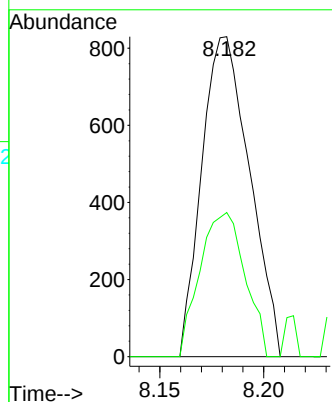
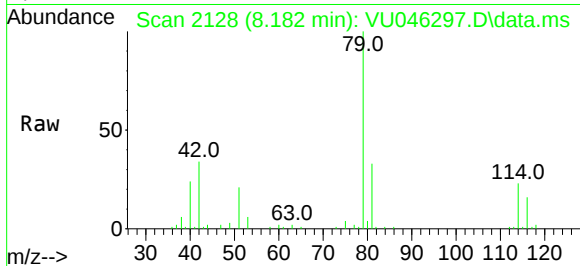




#44
trans-1,3-Dichloropropene
Concen: 0.688 ug/L
RT: 8.182 min Scan# 2138
Delta R.T. -0.032 min
Lab File: VU046297.D
Acq: 11 Dec 2021 19:12

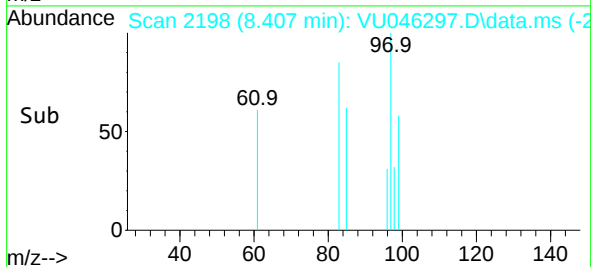
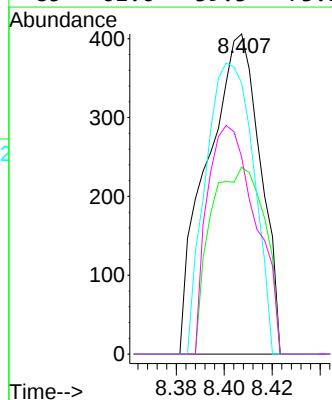
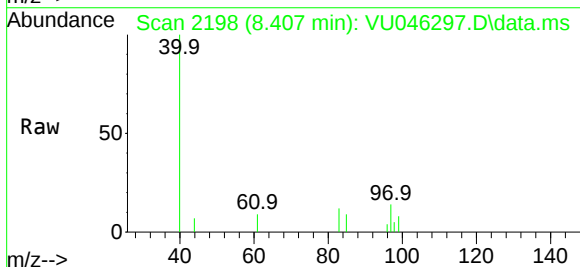
Instrument :
MSVOA_U
ClientSampleId :

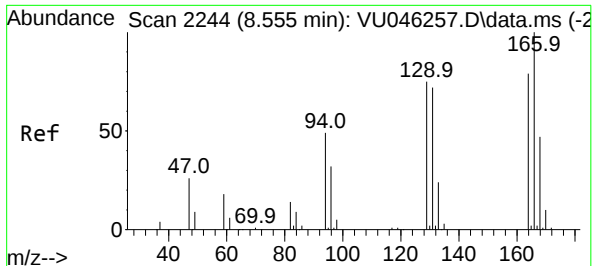
Tgt Ion: 75 Resp: 1325
Ion Ratio Lower Upper
75 100
77 45.1 21.7 40.3#



#45
1,1,2-Trichloroethane
Concen: 0.485 ug/L
RT: 8.407 min Scan# 2198
Delta R.T. 0.003 min
Lab File: VU046297.D
Acq: 11 Dec 2021 19:12

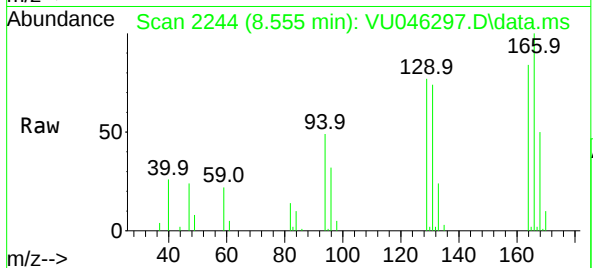
Tgt Ion: 97 Resp: 627
Ion Ratio Lower Upper
97 100
99 58.4 44.7 82.9
83 84.7 60.2 111.8
85 61.6 39.3 73.1



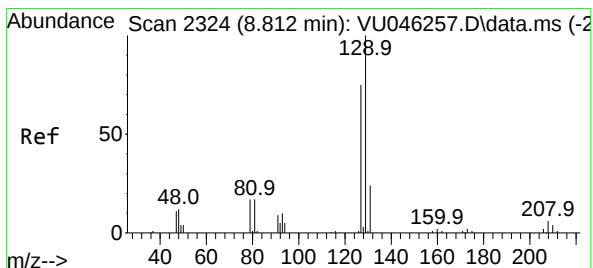
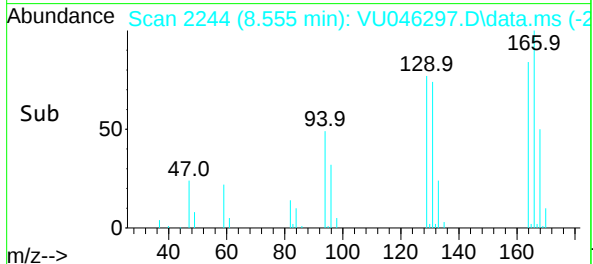
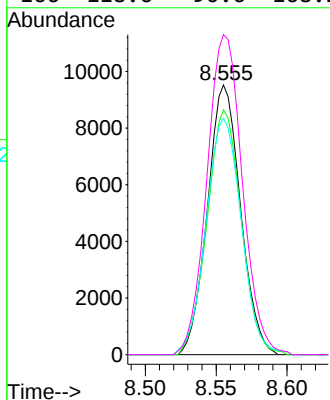


#46
Tetrachloroethene
Concen: 16.267 ug/L
RT: 8.555 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU046297.D
Acq: 11 Dec 2021 19:12

Instrument :
MSVOA_U
ClientSampleId :

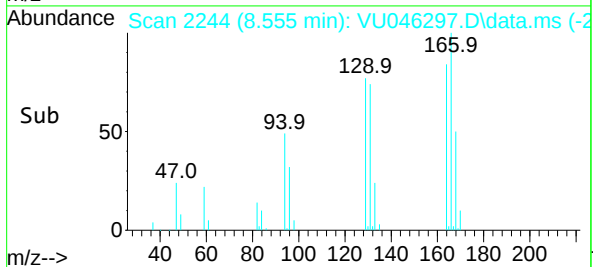
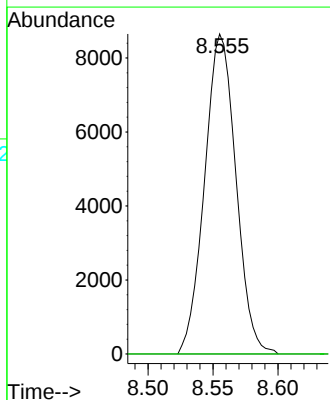
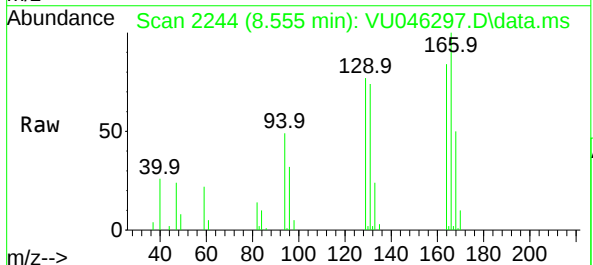


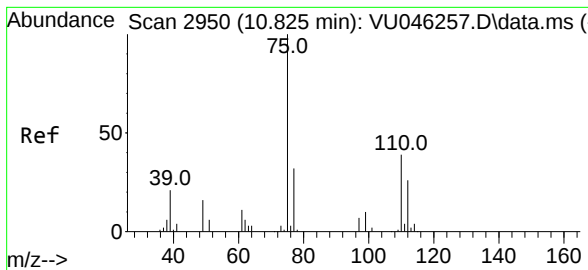
Tgt Ion:164 Resp: 15501
Ion Ratio Lower Upper
164 100
129 90.8 71.1 132.1
131 87.7 67.8 126.0
166 118.6 90.6 168.2



#49
Dibromochloromethane
Concen: 10.680 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.257 min
Lab File: VU046297.D
Acq: 11 Dec 2021 19:12

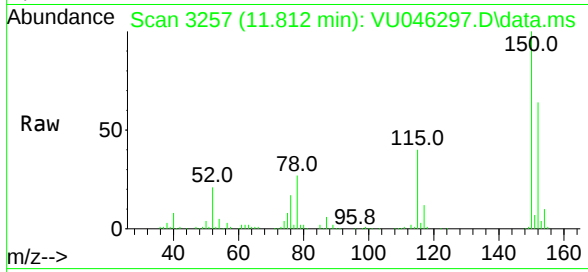
Tgt Ion:129 Resp: 14508
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.4#





#60
 1,2,3-Trichloropropane
 Concen: 5.462 ug/L
 RT: 11.812 min Scan# 31
 Delta R.T. 0.987 min
 Lab File: VU046297.D
 Acq: 11 Dec 2021 19:12

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	75	Resp:	9726
Ion	Ratio	Lower	Upper
75	100		
77	33.6	26.4	39.6
110	2.3	32.4	48.6#

