

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040524\
 Data File : VU058433.D
 Acq On : 05 Apr 2024 21:03
 Operator : MD/SY
 Sample : P1925-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 06 05:57:30 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR040424WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Apr 06 00:37:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	80252	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	78544	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	38573	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	23533	4.429	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.600%
7) Chloroethane-d5	1.907	69	22595	4.893	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.800%
11) 1,1-Dichloroethene-d2	2.560	65	11491	4.778	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.600%
20) 2-Butanone-d5	4.624	46	52992	47.327	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.660%
24) Chloroform-d	5.052	84	49789	4.694	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.800%
26) 1,2-Dichloroethane-d4	5.692	65	25084	5.068	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.400%
32) Benzene-d6	5.717	84	99815	4.720	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.400%
36) 1,2-Dichloropropane-d6	6.682	67	31666	4.775	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.600%
41) Toluene-d8	7.891	98	84896	4.527	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.600%
43) trans-1,3-Dichloroprop...	8.177	79	9037	4.390	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.800%
46) 2-Hexanone-d5	8.627	63	40290	47.454	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.900%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	20194	4.313	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.200%
66) 1,2-Dichlorobenzene-d4	12.187	152	29891	4.601	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	1115	0.136	ug/L	99
5) Vinyl chloride	1.599	62	13292	1.626	ug/L	93
12) 1,1-Dichloroethene	2.570	96	1570	0.276	ug/L #	1
16) Methylene chloride	3.039	84	2727	0.361	ug/L	92
18) trans-1,2-Dichloroethene	3.351	96	5425	0.910	ug/L	92
19) 1,1-Dichloroethane	3.856	63	215706	16.579	ug/L	98
22) cis-1,2-Dichloroethene	4.656	96	65266	9.750	ug/L	98
27) 1,2-Dichloroethane	5.785	62	29340	3.826	ug/L	99
30) Cyclohexane	5.377	56	4849	0.436	ug/L	98
33) Benzene	5.766	78	57261	2.011	ug/L	100
34) Trichloroethene	6.534	95	10957	1.527	ug/L	98
35) Methylcyclohexane	6.753	83	6728	0.622	ug/L	95
42) Toluene	7.968	91	3404	0.114	ug/L	93
45) 1,1,2-Trichloroethane	8.360	97	975	0.223	ug/L #	14
47) Tetrachloroethene	8.547	164	2984	0.567	ug/L	98
49) Dibromochloromethane	8.547	129	2899	0.573	ug/L #	11
51) Chlorobenzene	9.441	112	86547	4.789	ug/L	99
52) Ethylbenzene	9.566	91	11968	0.378	ug/L	98
53) m,p-Xylene	9.695	106	1412	0.125	ug/L	99

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

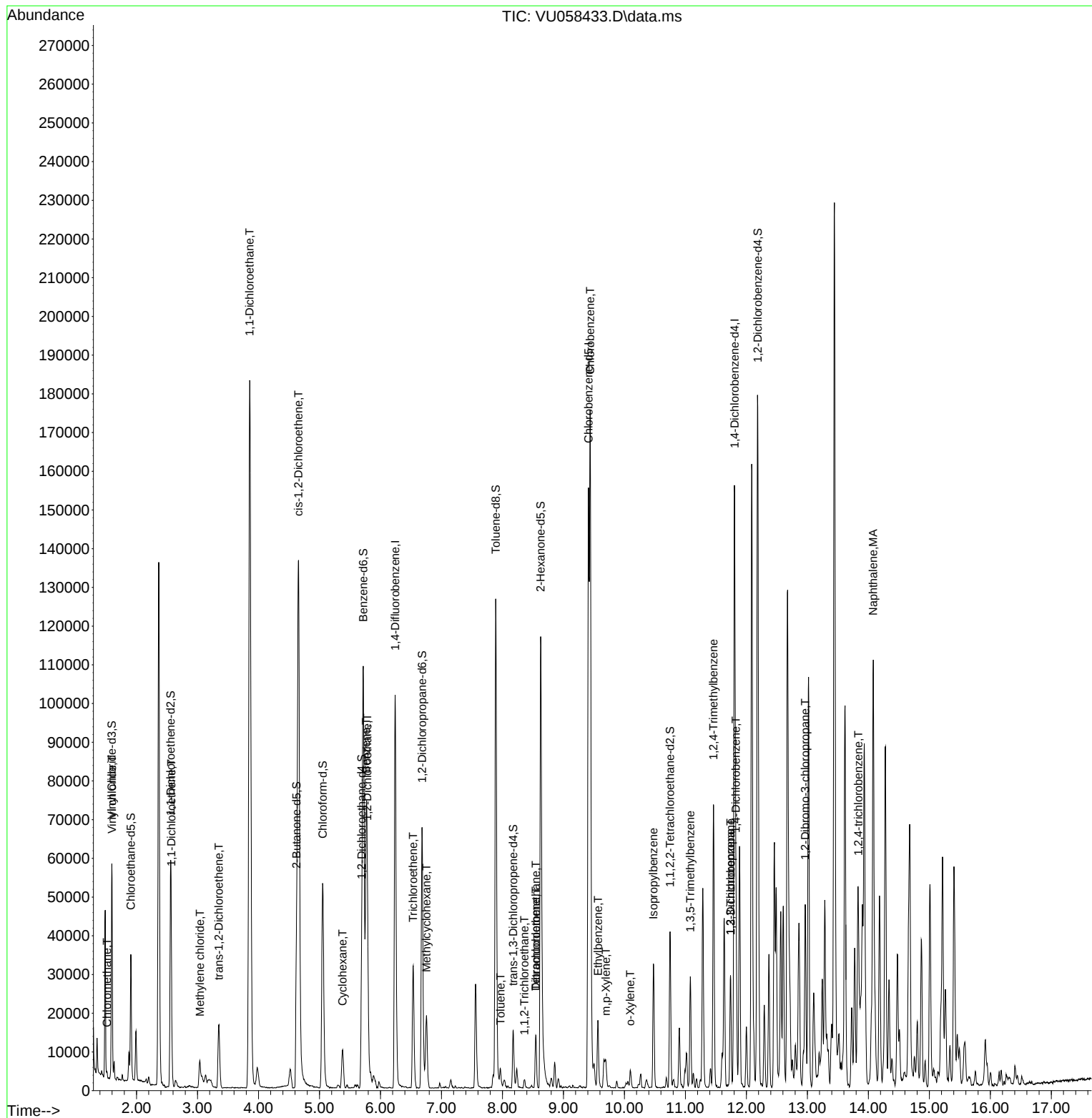
54) o-Xylene	10.097	106	1325	0.119	ug/L	83
60) Isopropylbenzene	10.476	105	19618	0.695	ug/L	99
61) 1,2,3-Trichloropropane	11.743	75	2644	0.672	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.081	105	15514	0.674	ug/L	100
63) 1,2,4-Trimethylbenzene	11.460	105	39616	1.685	ug/L	99
64) 1,3-Dichlorobenzene	11.743	146	7890	0.575	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	15308	1.145	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.965	75	171	0.256	ug/L #	4
70) 1,2,4-trichlorobenzene	13.836	180	2965	0.379	ug/L #	59
71) Naphthalene	14.080	128	85383	7.966	ug/L #	97

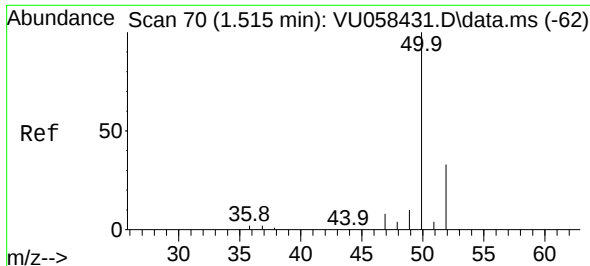
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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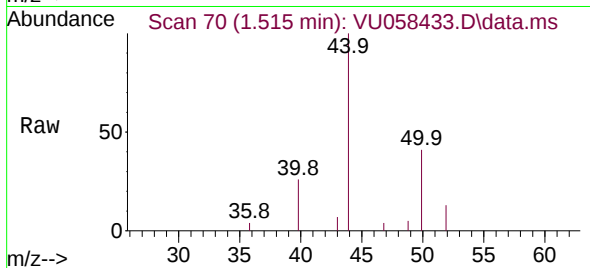
Quant Time: Apr 06 05:57:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR040424WMA.M
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QLast Update : Sat Apr 06 00:37:11 2024
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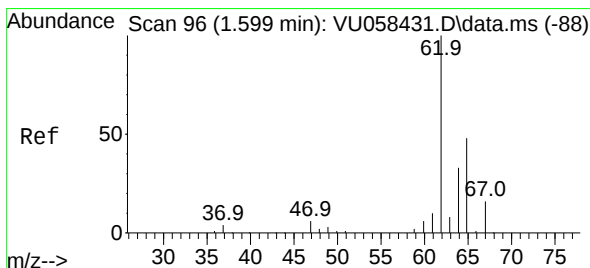
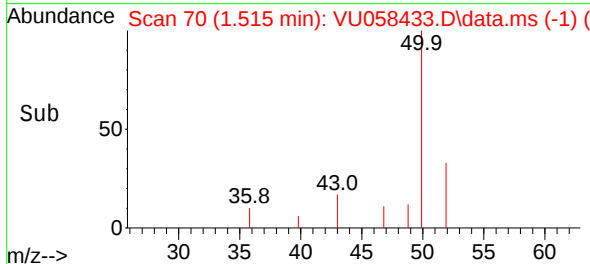
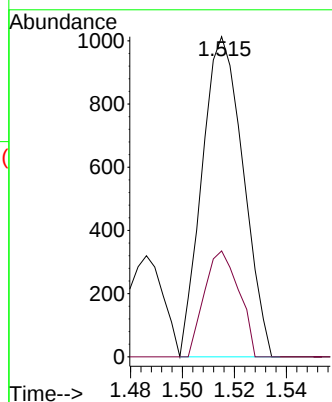


#3
Chloromethane
Concen: 0.136 ug/L
RT: 1.515 min Scan# 70
Delta R.T. 0.000 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

Instrument :
MSVOA_U
ClientSampleId :

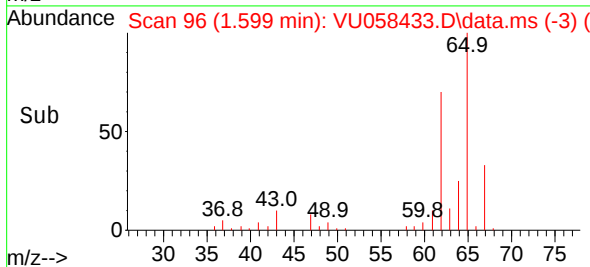
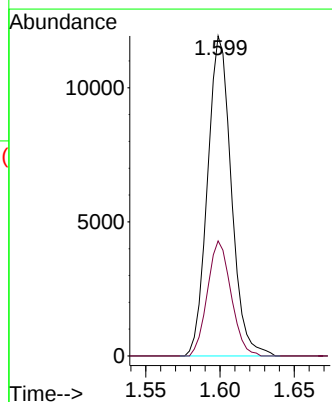
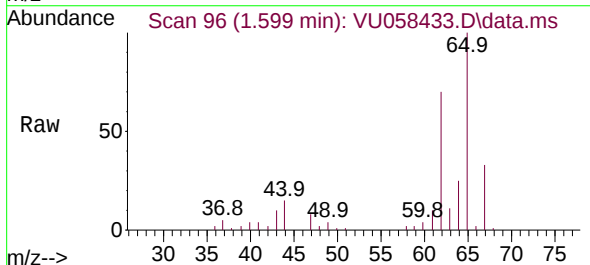


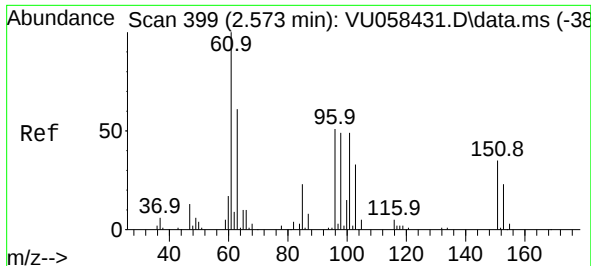
Tgt Ion: 50 Resp: 1115
Ion Ratio Lower Upper
50 100
52 33.1 22.6 42.0



#5
Vinyl chloride
Concen: 1.626 ug/L
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

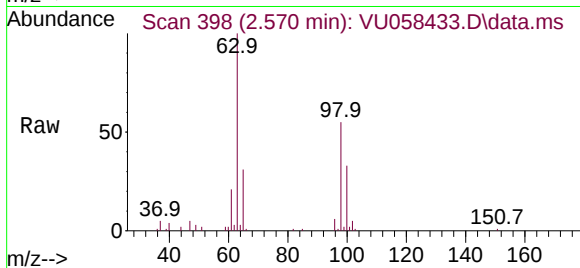
Tgt Ion: 62 Resp: 13292
Ion Ratio Lower Upper
62 100
64 36.0 22.6 42.0



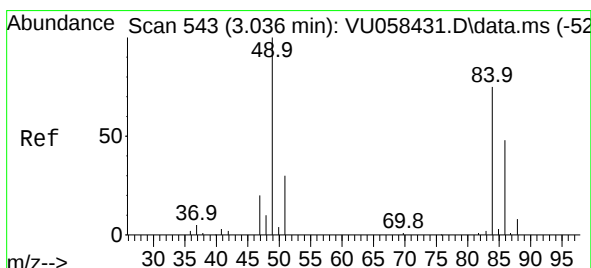
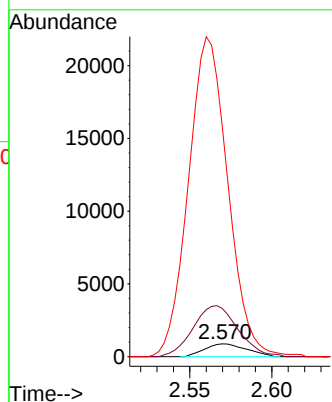
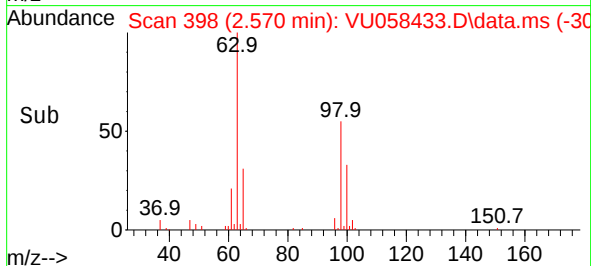


#12
1,1-Dichloroethene
Concen: 0.276 ug/L
RT: 2.570 min Scan# 399
Delta R.T. -0.003 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

Instrument :
MSVOA_U
ClientSampleId :

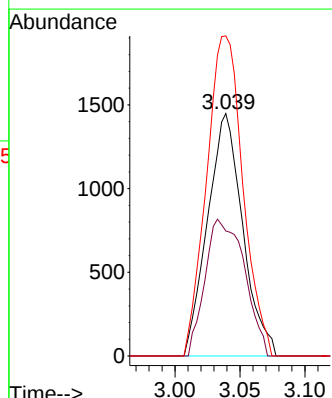
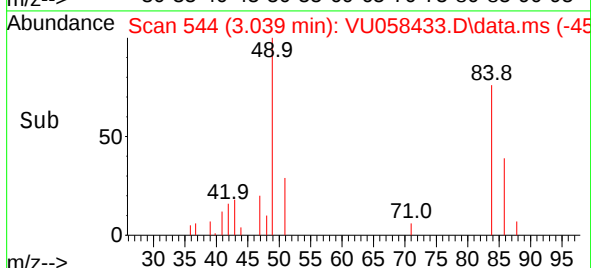
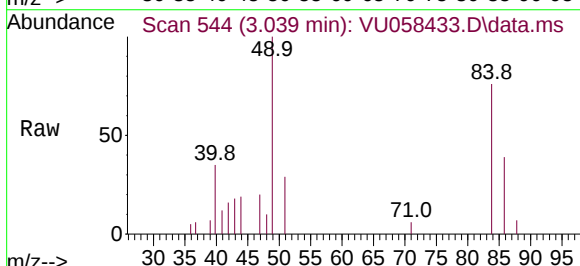


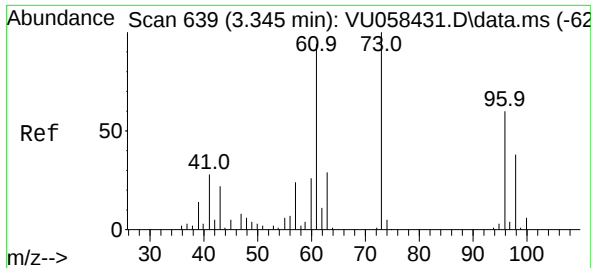
Tgt Ion: 96 Resp: 1570
Ion Ratio Lower Upper
96 100
61 378.4 132.5 246.1#
63 1816.3 87.7 162.9#



#16
Methylene chloride
Concen: 0.361 ug/L
RT: 3.039 min Scan# 544
Delta R.T. 0.003 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

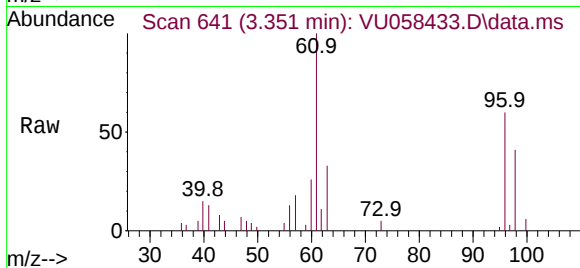
Tgt Ion: 84 Resp: 2727
Ion Ratio Lower Upper
84 100
86 51.6 44.3 82.3
49 132.0 96.0 178.2



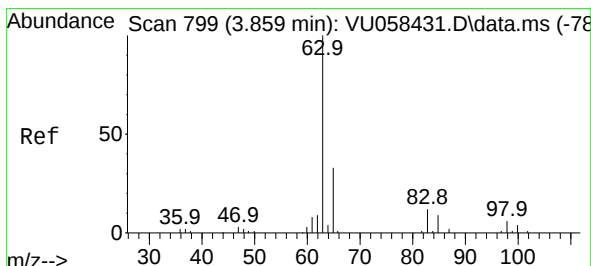
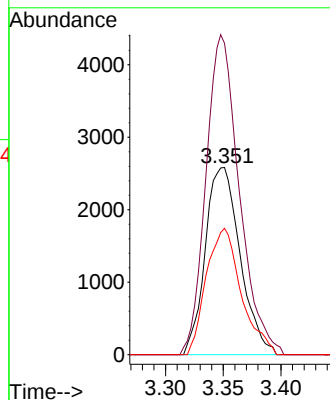
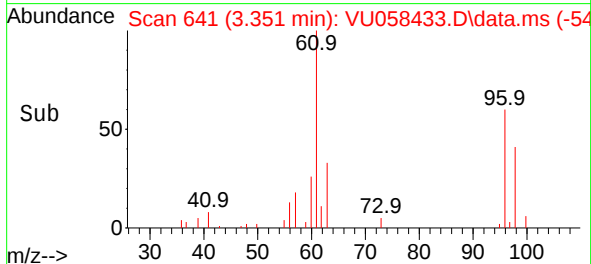


#18
trans-1,2-Dichloroethene
Concen: 0.910 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.006 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

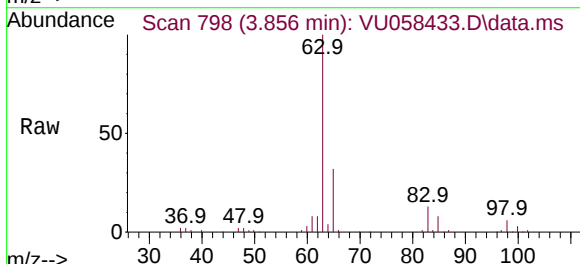
Instrument :
MSVOA_U
ClientSampleId :



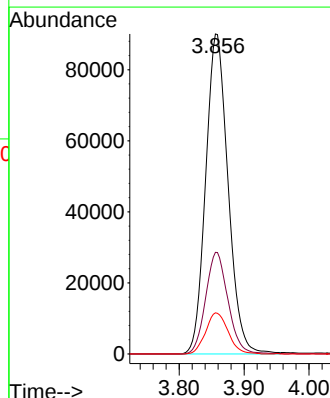
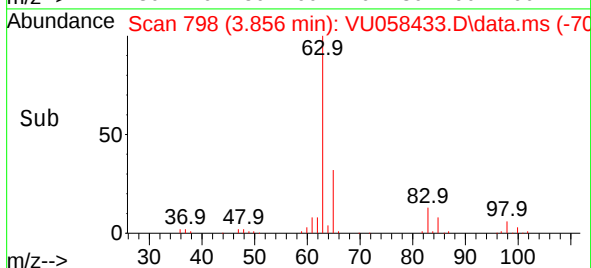
Tgt Ion: 96 Resp: 5425
Ion Ratio Lower Upper
96 100
61 166.3 107.6 199.8
98 67.5 45.1 83.7

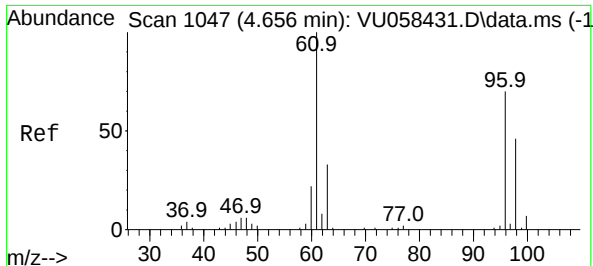


#19
1,1-Dichloroethane
Concen: 16.579 ug/L
RT: 3.856 min Scan# 798
Delta R.T. -0.003 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03



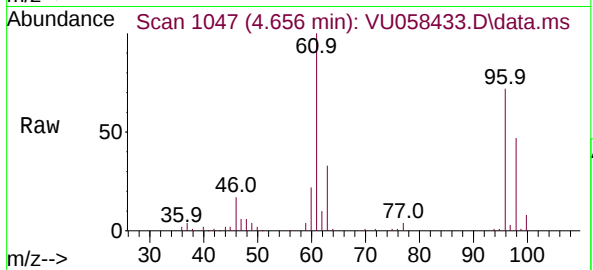
Tgt Ion: 63 Resp: 215706
Ion Ratio Lower Upper
63 100
65 31.8 22.9 42.5
83 12.8 9.6 17.8





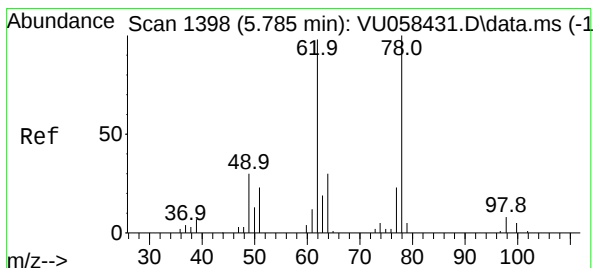
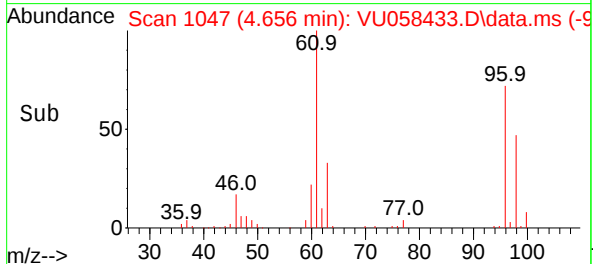
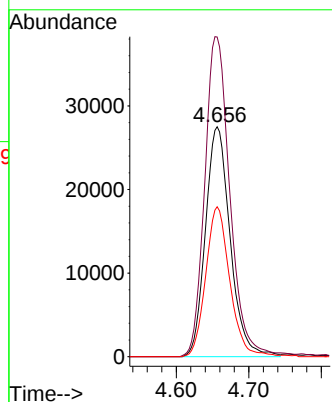
#22
 cis-1,2-Dichloroethene
 Concen: 9.750 ug/L
 RT: 4.656 min Scan# 1047
 Delta R.T. 0.000 min
 Lab File: VU058433.D
 Acq: 05 Apr 2024 21:03

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 96 Resp: 65266

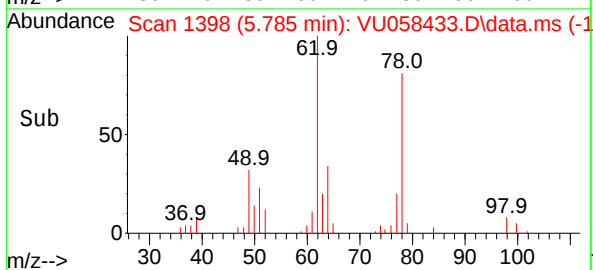
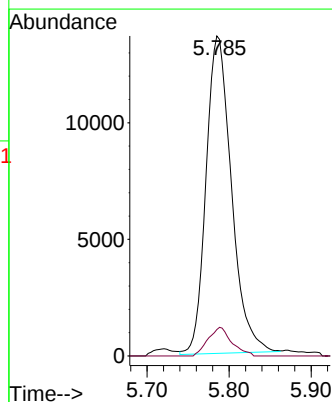
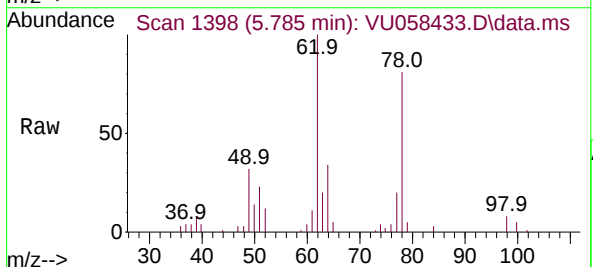
Ion	Ratio	Lower	Upper
96	100		
61	139.0	98.1	182.3
98	65.2	43.6	81.0

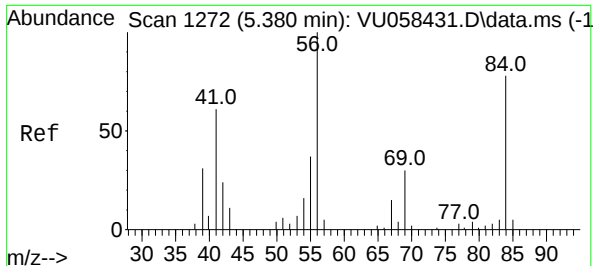


#27
 1,2-Dichloroethane
 Concen: 3.826 ug/L
 RT: 5.785 min Scan# 1398
 Delta R.T. 0.000 min
 Lab File: VU058433.D
 Acq: 05 Apr 2024 21:03

Tgt Ion: 62 Resp: 29340

Ion	Ratio	Lower	Upper
62	100		
98	8.3	7.0	10.4





#30

Cyclohexane

Concen: 0.436 ug/L

RT: 5.377 min Scan# 1271

Delta R.T. -0.003 min

Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

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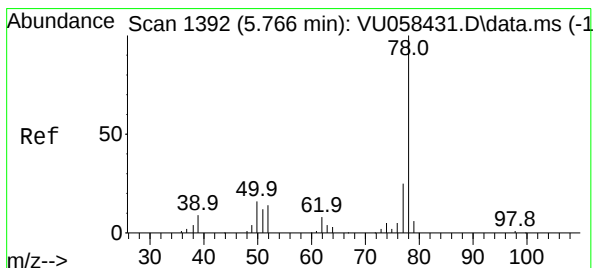
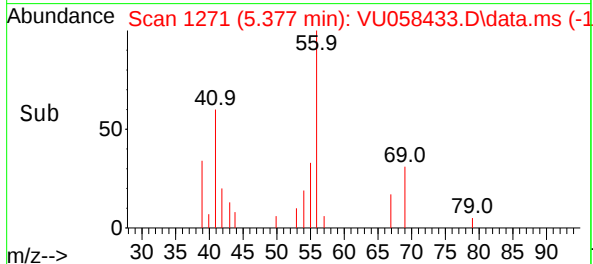
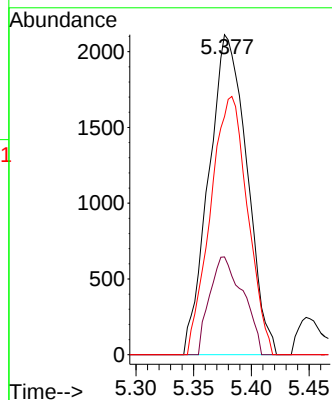
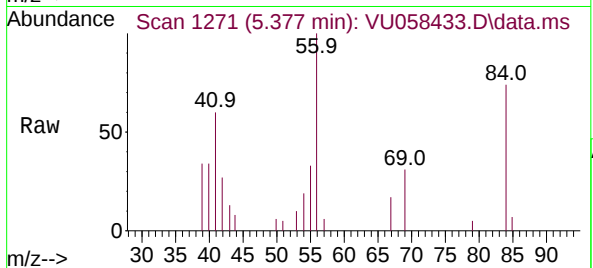
Tgt Ion: 56 Resp: 4849

Ion Ratio Lower Upper

56 100

69 26.7 23.2 34.8

84 78.6 63.3 94.9



#33

Benzene

Concen: 2.011 ug/L

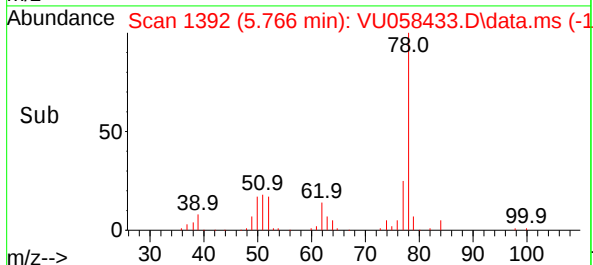
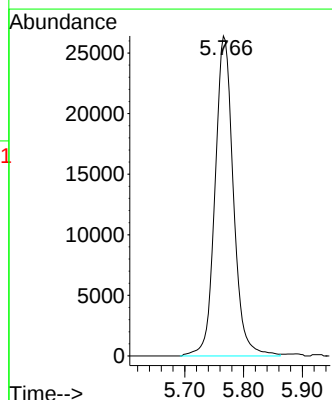
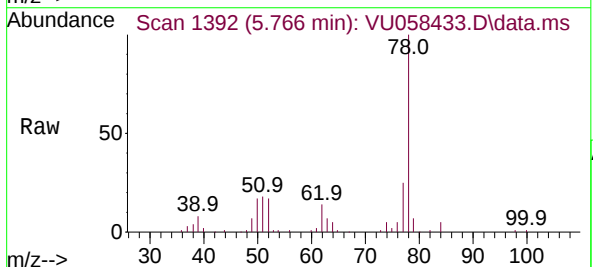
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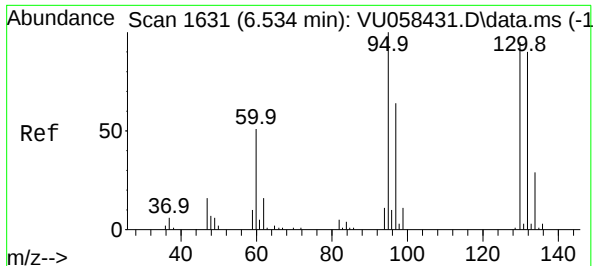
Delta R.T. 0.000 min

Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

Tgt Ion: 78 Resp: 57261

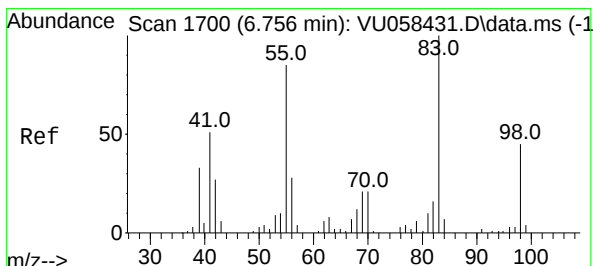
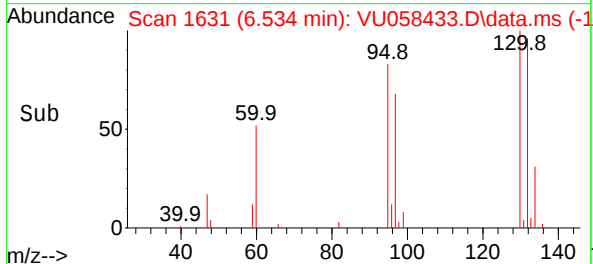
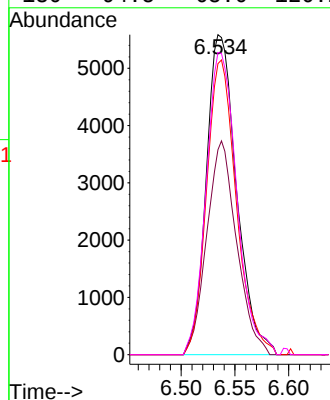
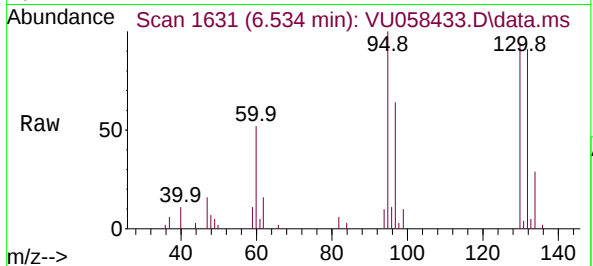




#34
Trichloroethene
Concen: 1.527 ug/L
RT: 6.534 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

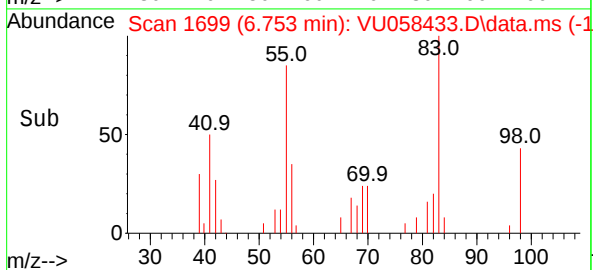
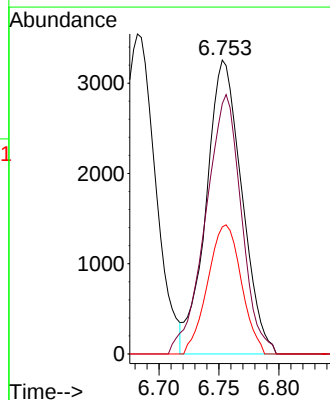
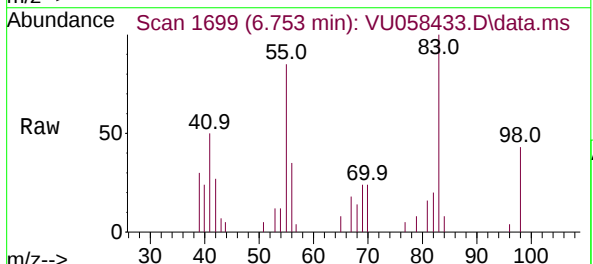
Instrument :
MSVOA_U
ClientSampleId :

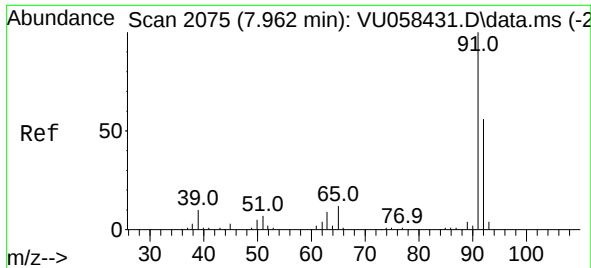
Tgt Ion: 95 Resp: 10957
Ion Ratio Lower Upper
95 100
97 64.0 45.6 84.6
132 91.0 64.8 120.3
130 94.5 68.0 126.2



#35
Methylcyclohexane
Concen: 0.622 ug/L
RT: 6.753 min Scan# 1699
Delta R.T. -0.003 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

Tgt Ion: 83 Resp: 6728
Ion Ratio Lower Upper
83 100
55 88.5 66.2 99.4
98 41.4 34.6 52.0





#42

Toluene

Concen: 0.114 ug/L

RT: 7.968 min Scan# 2075

Delta R.T. 0.006 min

Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

Instrument :

MSVOA_U

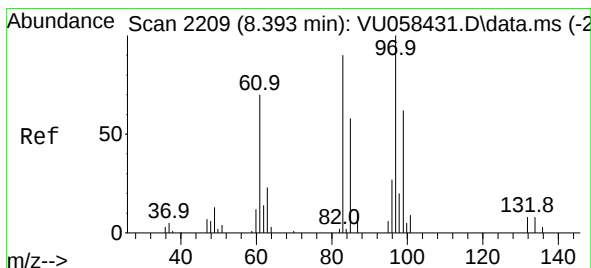
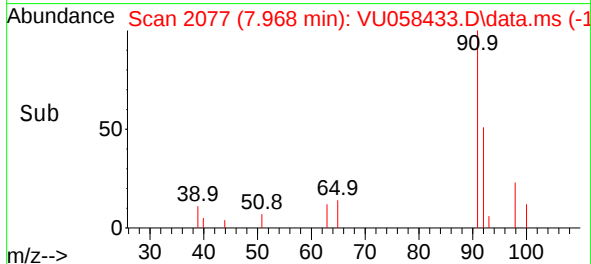
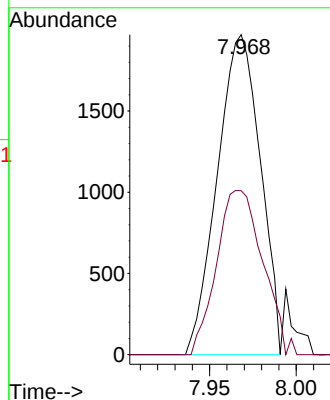
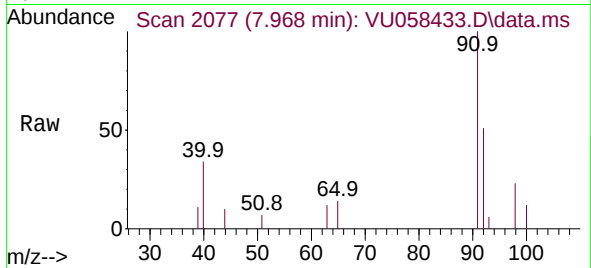
ClientSampleId :

Tgt Ion: 91 Resp: 3404

Ion Ratio Lower Upper

91 100

92 51.3 39.5 73.3



#45

1,1,2-Trichloroethane

Concen: 0.223 ug/L

RT: 8.360 min Scan# 2199

Delta R.T. -0.032 min

Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

Tgt Ion: 97 Resp: 975

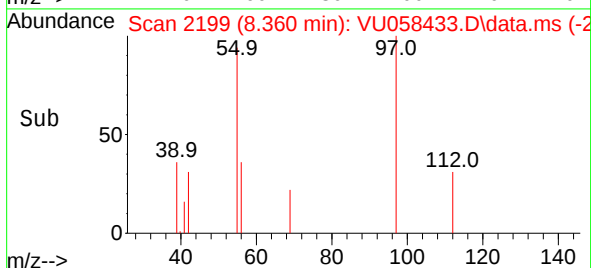
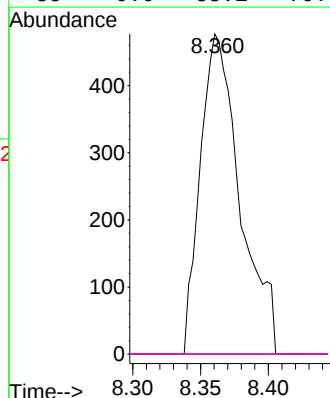
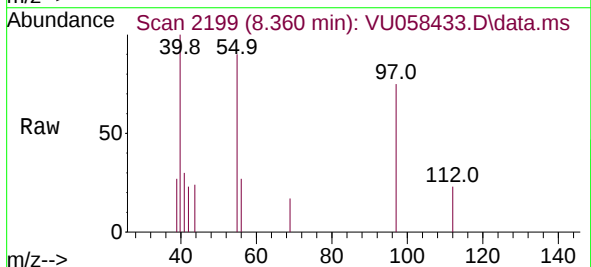
Ion Ratio Lower Upper

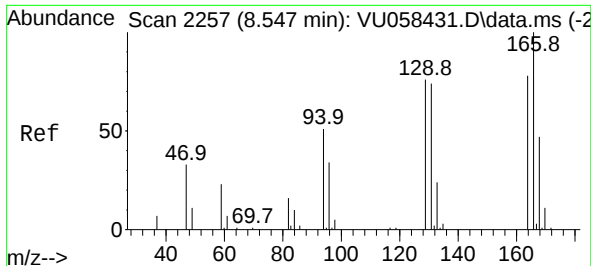
97 100

99 0.0 43.7 81.1#

83 0.0 64.5 119.7#

85 0.0 38.1 70.9#





#47

Tetrachloroethene

Concen: 0.567 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.000 min

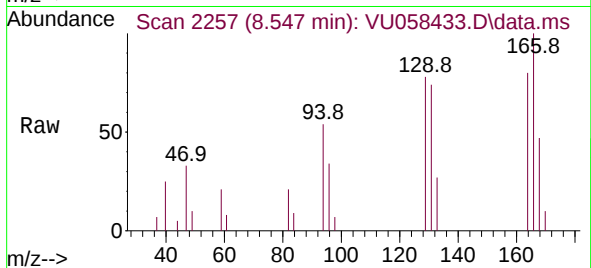
Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 2984

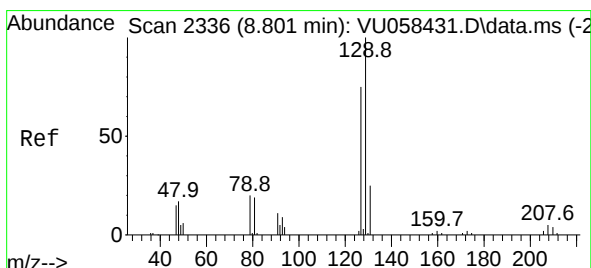
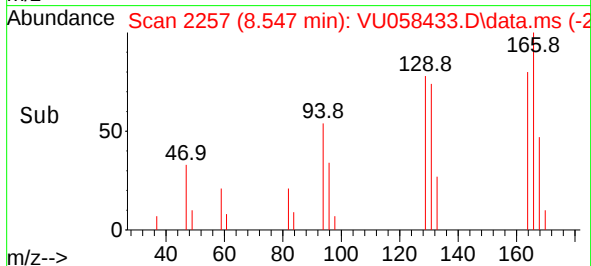
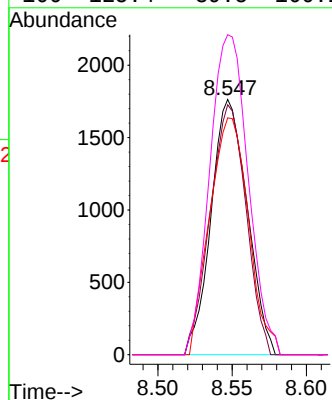
Ion Ratio Lower Upper

164 100

129 98.0 67.3 125.1

131 92.8 65.5 121.6

166 125.4 89.5 166.1



#49

Dibromochloromethane

Concen: 0.573 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.254 min

Lab File: VU058433.D

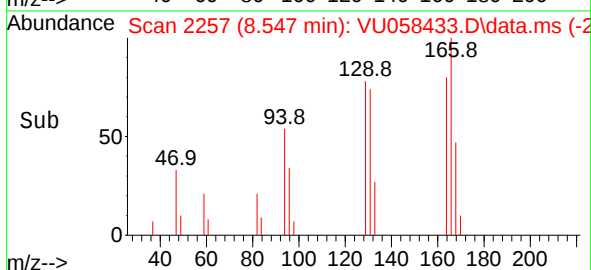
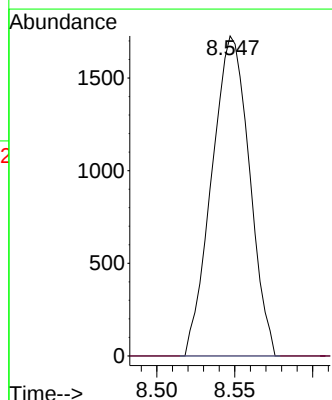
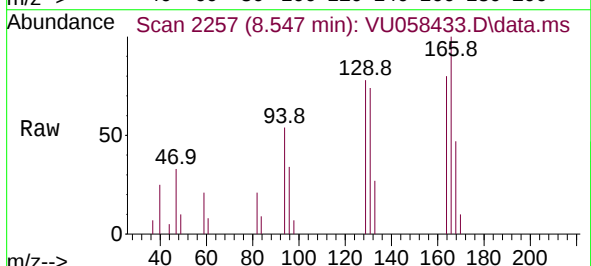
Acq: 05 Apr 2024 21:03

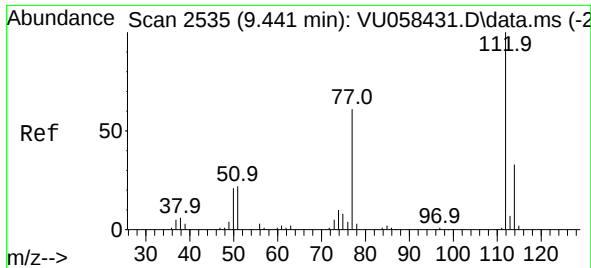
Tgt Ion:129 Resp: 2899

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.5#





#51

Chlorobenzene

Concen: 4.789 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

Instrument :

MSVOA_U

ClientSampleId :

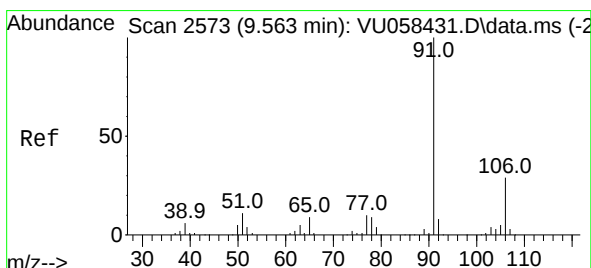
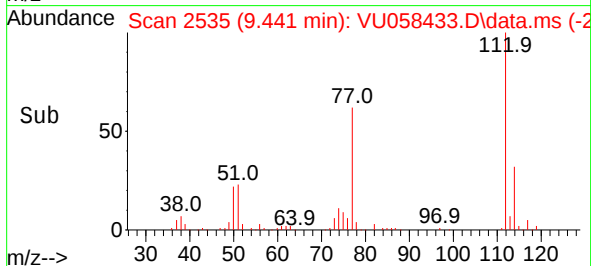
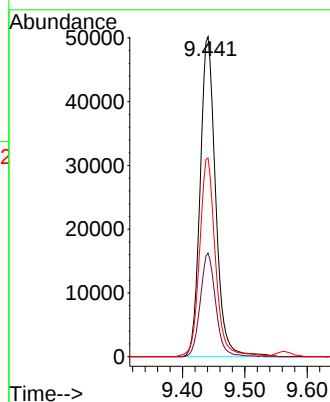
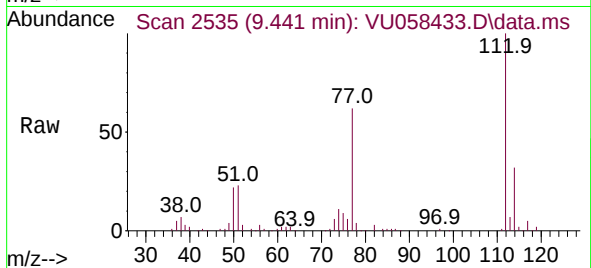
Tgt Ion:112 Resp: 86547

Ion Ratio Lower Upper

112 100

114 32.4 22.4 41.6

77 62.1 50.1 75.1



#52

Ethylbenzene

Concen: 0.378 ug/L

RT: 9.566 min Scan# 2574

Delta R.T. 0.003 min

Lab File: VU058433.D

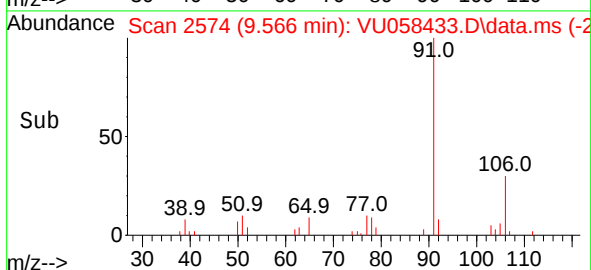
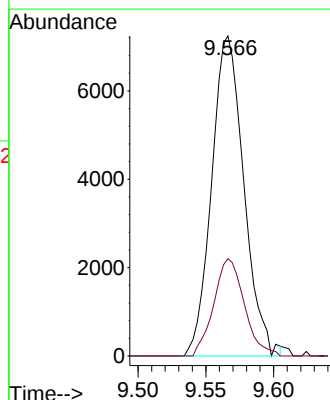
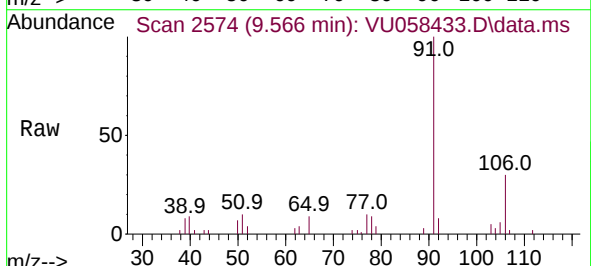
Acq: 05 Apr 2024 21:03

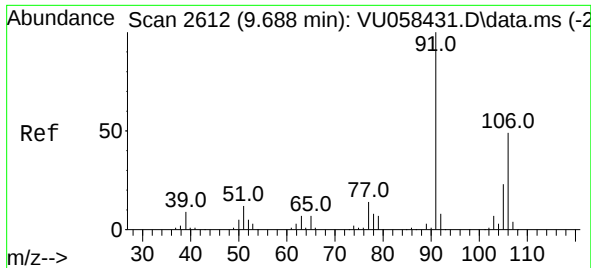
Tgt Ion: 91 Resp: 11968

Ion Ratio Lower Upper

91 100

106 30.4 20.6 38.4

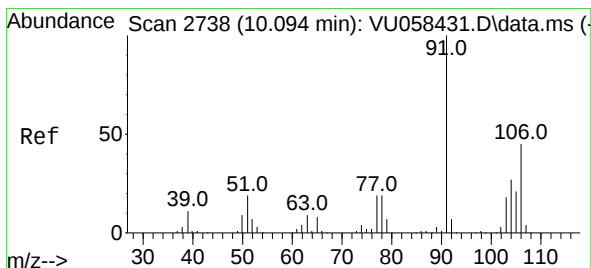
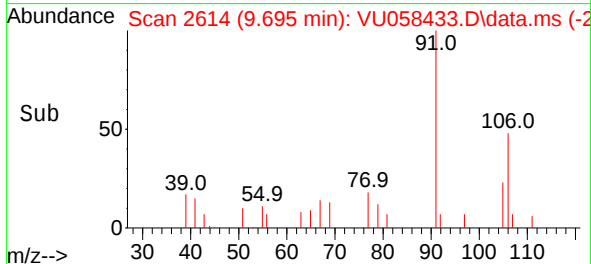
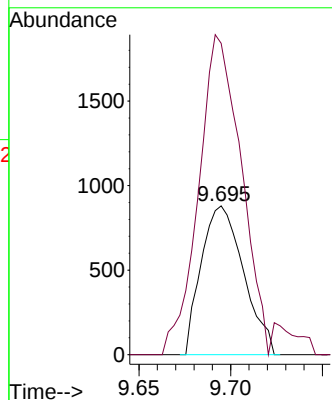
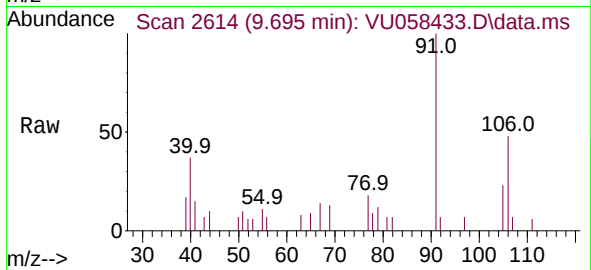




#53
m,p-Xylene
Concen: 0.125 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.006 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

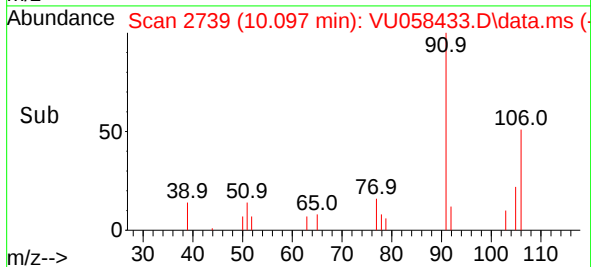
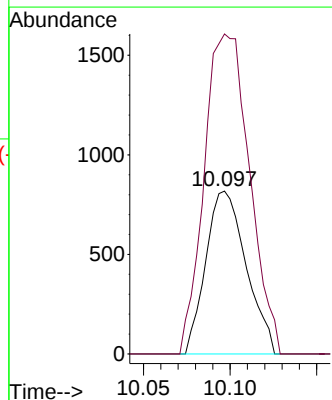
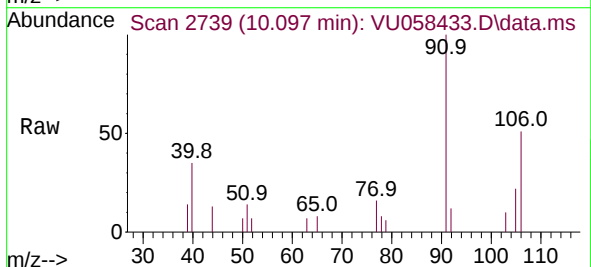
Instrument :
MSVOA_U
ClientSampleId :

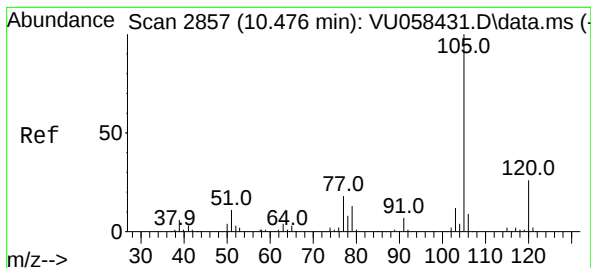
Tgt Ion:106 Resp: 1412
Ion Ratio Lower Upper
106 100
91 209.3 147.8 274.4



#54
o-Xylene
Concen: 0.119 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.003 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

Tgt Ion:106 Resp: 1325
Ion Ratio Lower Upper
106 100
91 196.5 156.9 291.5





#60

Isopropylbenzene

Concen: 0.695 ug/L

RT: 10.476 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU058433.D

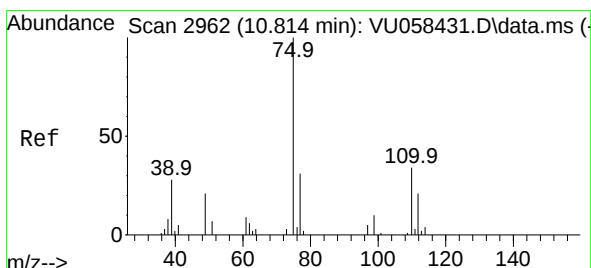
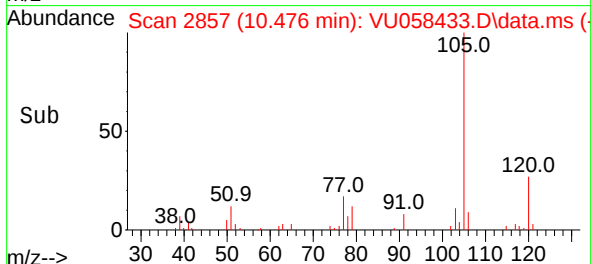
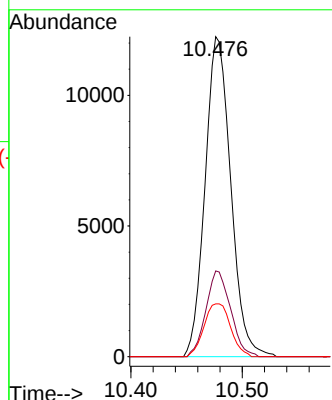
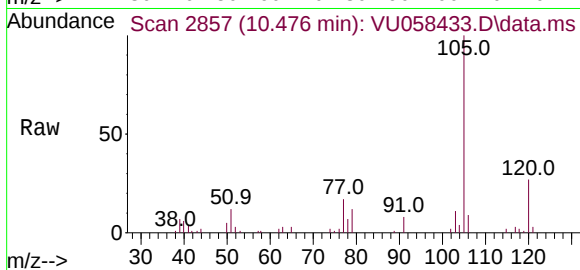
Acq: 05 Apr 2024 21:03

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	105	Resp:	19618
Ion Ratio	Lower	Upper	
105	100		
120	25.7	20.2	30.4
77	17.1	13.5	20.3



#61

1,2,3-Trichloropropane

Concen: 0.672 ug/L

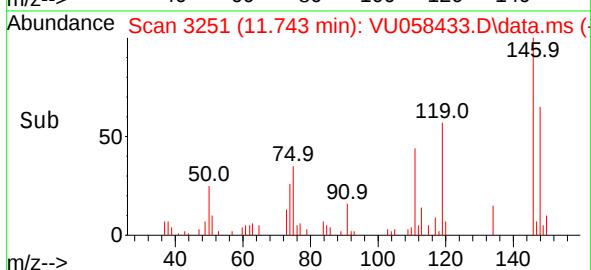
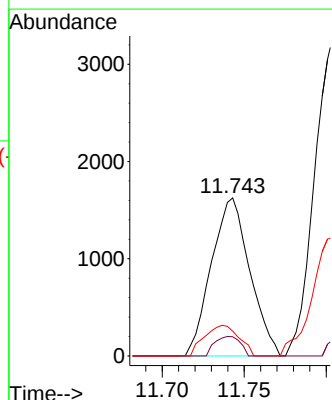
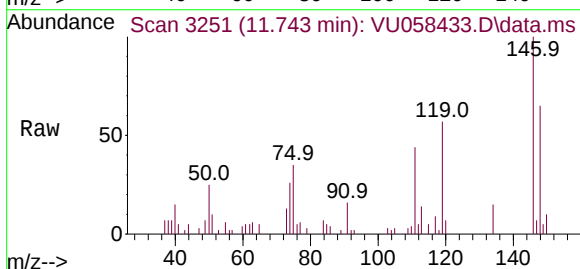
RT: 11.743 min Scan# 3251

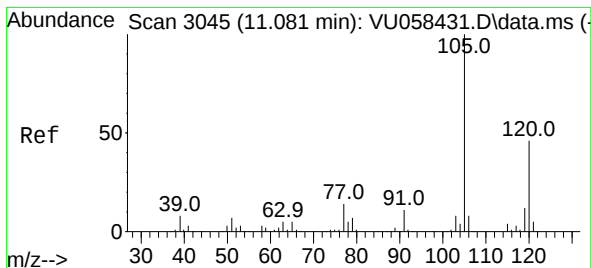
Delta R.T. 0.929 min

Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

Tgt Ion:	75	Resp:	2644
Ion Ratio	Lower	Upper	
75	100		
110	8.2	25.8	38.6#
77	161.7	25.1	37.7#





#62

1,3,5-Trimethylbenzene

Concen: 0.674 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. 0.000 min

Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

Instrument :

MSVOA_U

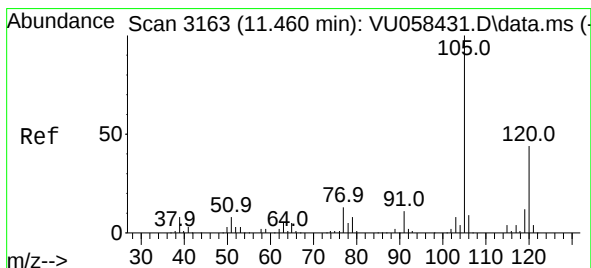
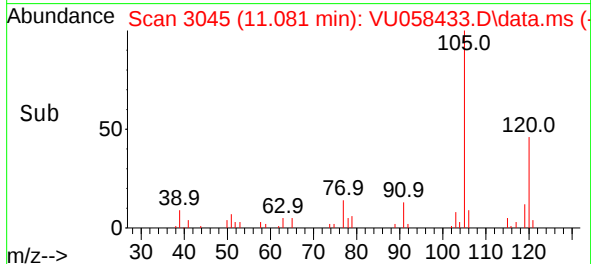
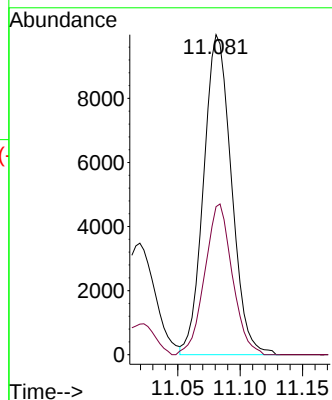
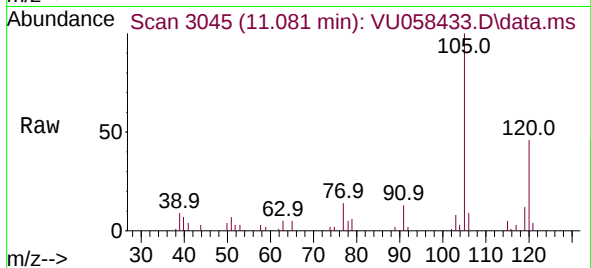
ClientSampleId :

Tgt Ion:105 Resp: 15514

Ion Ratio Lower Upper

105 100

120 46.7 37.2 55.8



#63

1,2,4-Trimethylbenzene

Concen: 1.685 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. 0.000 min

Lab File: VU058433.D

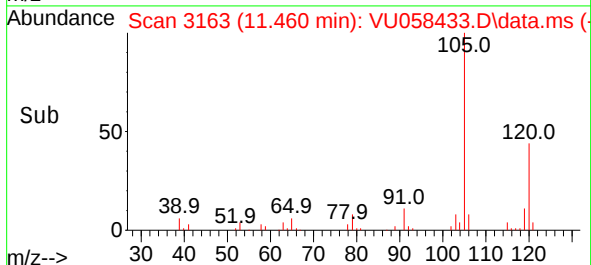
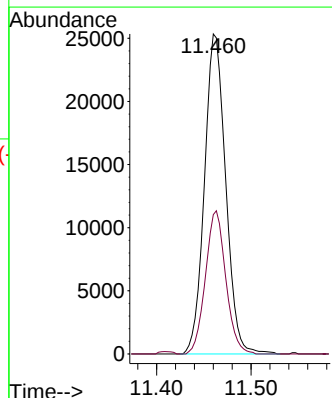
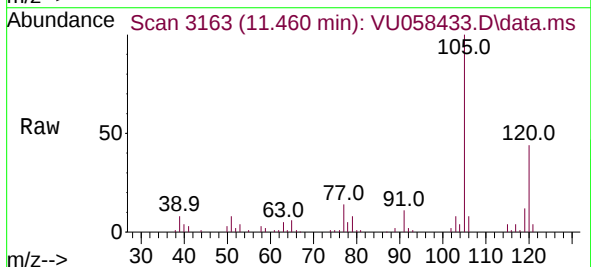
Acq: 05 Apr 2024 21:03

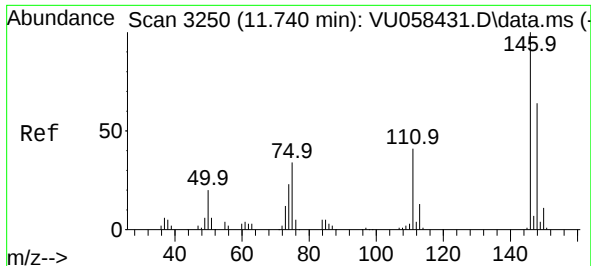
Tgt Ion:105 Resp: 39616

Ion Ratio Lower Upper

105 100

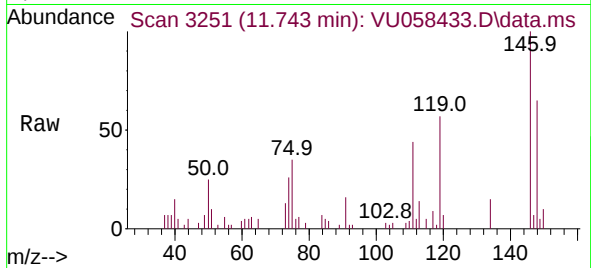
120 42.8 34.7 52.1



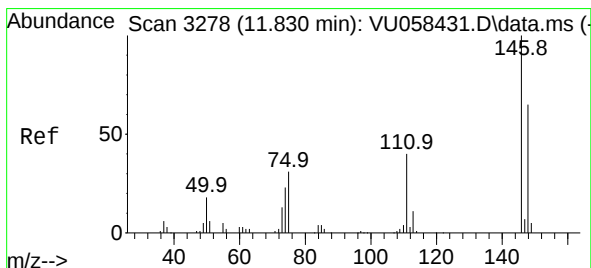
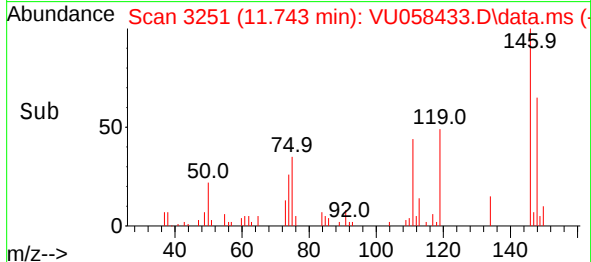
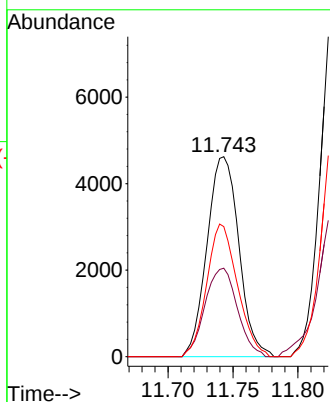


#64
1,3-Dichlorobenzene
Concen: 0.575 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. 0.003 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

Instrument :
MSVOA_U
ClientSampleId :

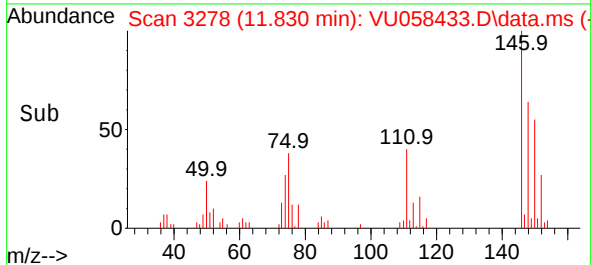
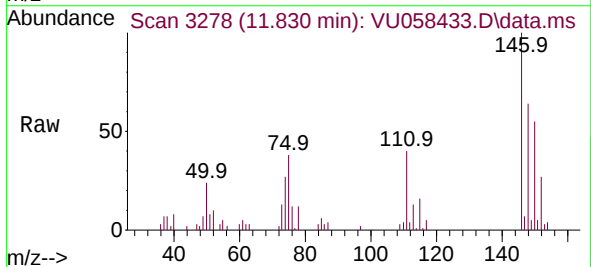
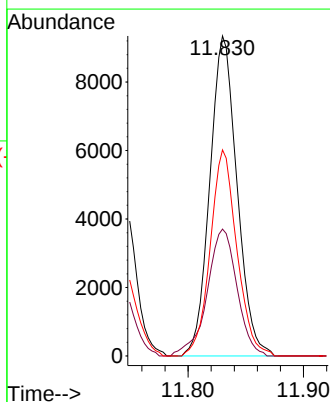


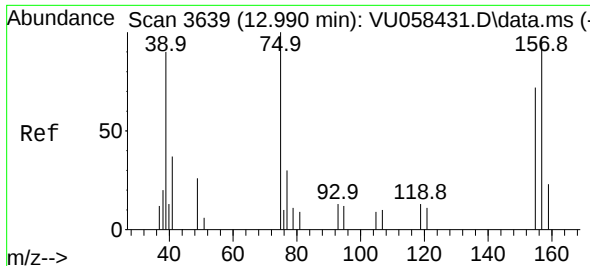
Tgt Ion:146 Resp: 7890
Ion Ratio Lower Upper
146 100
111 44.3 28.8 53.4
148 65.1 44.9 83.3



#65
1,4-Dichlorobenzene
Concen: 1.145 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. 0.000 min
Lab File: VU058433.D
Acq: 05 Apr 2024 21:03

Tgt Ion:146 Resp: 15308
Ion Ratio Lower Upper
146 100
111 39.7 28.8 53.6
148 64.4 45.3 84.1





#68

1,2-Dibromo-3-chloropropane

Concen: 0.256 ug/L

RT: 12.965 min Scan# 3631

Delta R.T. -0.026 min

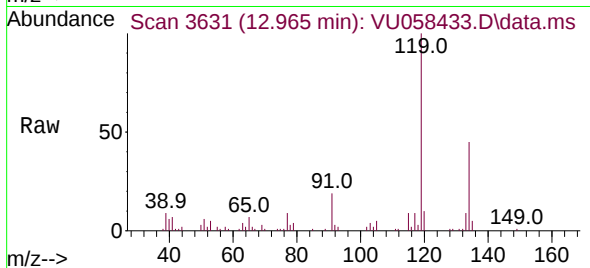
Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

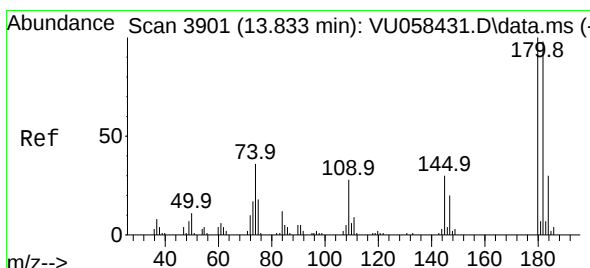
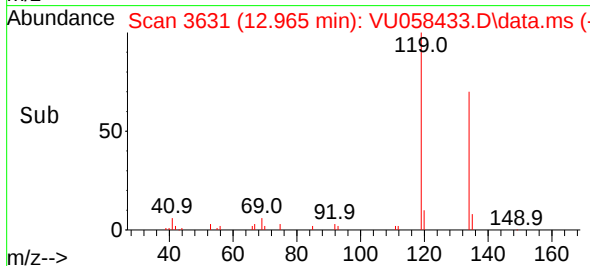
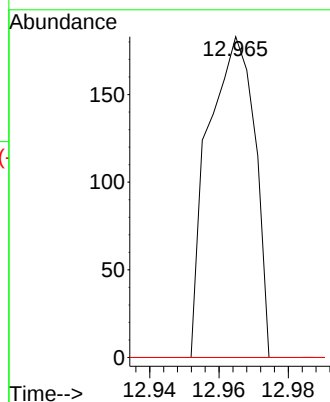
Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion: 75	Resp:	171
Ion Ratio	Lower	Upper
75	100	
155	0.0	61.4 92.0#
157	0.0	81.7 122.5#



#70

1,2,4-trichlorobenzene

Concen: 0.379 ug/L

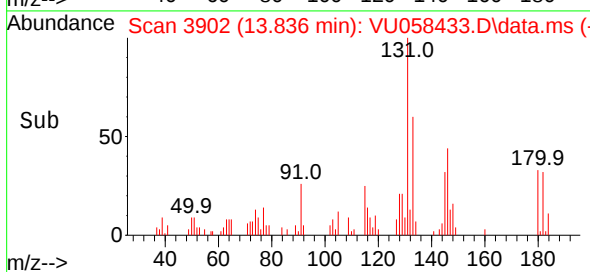
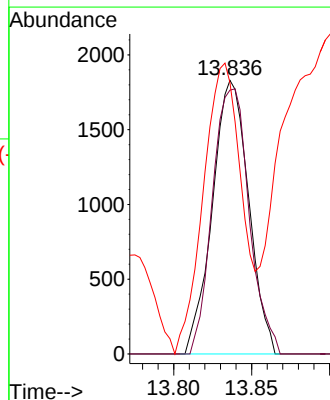
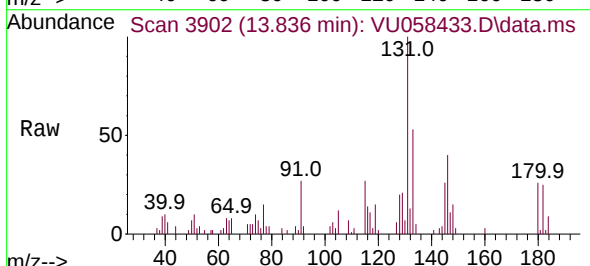
RT: 13.836 min Scan# 3902

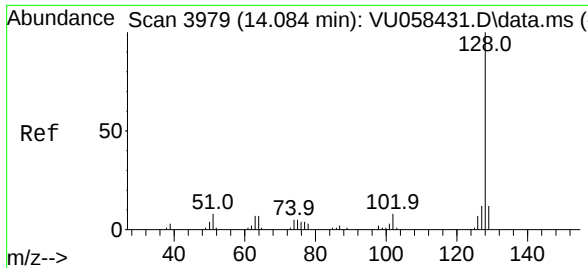
Delta R.T. 0.003 min

Lab File: VU058433.D

Acq: 05 Apr 2024 21:03

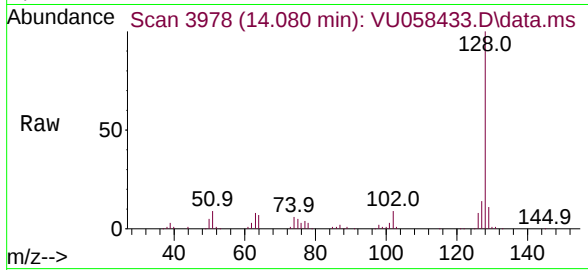
Tgt Ion: 180	Resp:	2965
Ion Ratio	Lower	Upper
180	100	
182	98.1	74.4 111.6
145	111.8	24.1 36.1#





#71
 Naphthalene
 Concen: 7.966 ug/L
 RT: 14.080 min Scan# 3978
 Delta R.T. -0.003 min
 Lab File: VU058433.D
 Acq: 05 Apr 2024 21:03

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	128	Resp:	85383
Ion	Ratio	Lower	Upper
128	100		
129	13.2	8.6	13.0#
127	14.2	11.0	16.6

