

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU022024\
 Data File : VU057891.D
 Acq On : 20 Feb 2024 10:36
 Operator : MD/SY
 Sample : P1504-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DCNF5

Quant Time: Feb 21 00:12:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM021924WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 21 00:11:26 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.238	114	294036	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	276518	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	139489	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	96283	45.230	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.460%
7) Chloroethane-d5	1.895	69	73335	46.609	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.220%
11) 1,1-Dichloroethene-d2	2.560	63	169082	42.620	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.240%
21) 2-Butanone-d5	4.608	46	87917	108.698	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.700%
24) Chloroform-d	5.052	84	162593	45.044	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.080%
26) 1,2-Dichloroethane-d4	5.692	65	105272	46.523	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.040%
32) Benzene-d6	5.718	84	334585	48.282	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.560%
36) 1,2-Dichloropropane-d6	6.682	67	108080	48.302	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.600%
41) Toluene-d8	7.891	98	305865	48.760	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.520%
43) trans-1,3-Dichloroprop...	8.174	79	51714	48.532	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.060%
47) 2-Hexanone-d5	8.627	63	73423	85.354	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.350%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	133591	43.266	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	86.540%
66) 1,2-Dichlorobenzene-d4	12.187	152	106702	47.242	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.480%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	76040	23.201	ug/L	96
12) 1,1-Dichloroethene	2.570	96	71075	33.385	ug/L	89
13) Acetone	2.612	43	45189	30.175	ug/L	99
16) Methylene chloride	3.033	84	139573	50.300	ug/L	99
18) Methyl tert-butyl Ether	3.348	73	783435	101.881	ug/L	100
20) cis-1,2-Dichloroethene	4.653	96	68617	27.081	ug/L	99
25) Chloroform	5.074	83	86922	19.225	ug/L	100
27) 1,2-Dichloroethane	5.782	62	203022	53.965	ug/L	98
34) Trichloroethene	6.534	95	162475	65.536	ug/L	99
37) 1,2-Dichloropropane	6.782	63	208332	76.553	ug/L	100
39) cis-1,3-Dichloropropene	7.599	75	263232	63.295	ug/L	100
40) 4-Methyl-2-pentanone	7.782	43	372490	108.736	ug/L	99
42) Toluene	7.962	91	1004665	100.653	ug/L	100
44) trans-1,3-Dichloropropene	8.203	75	85241	22.086	ug/L	100
45) 1,1,2-Trichloroethane	8.393	97	133635	55.266	ug/L	98
46) Tetrachloroethene	8.547	164	45829	26.861	ug/L	98
48) 2-Hexanone	8.676	43	245762	87.895	ug/L	99
49) Dibromochloromethane	8.801	129	190592	79.147	ug/L	95
50) 1,2-Dibromoethane	8.917	107	134445	52.806	ug/L	100

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

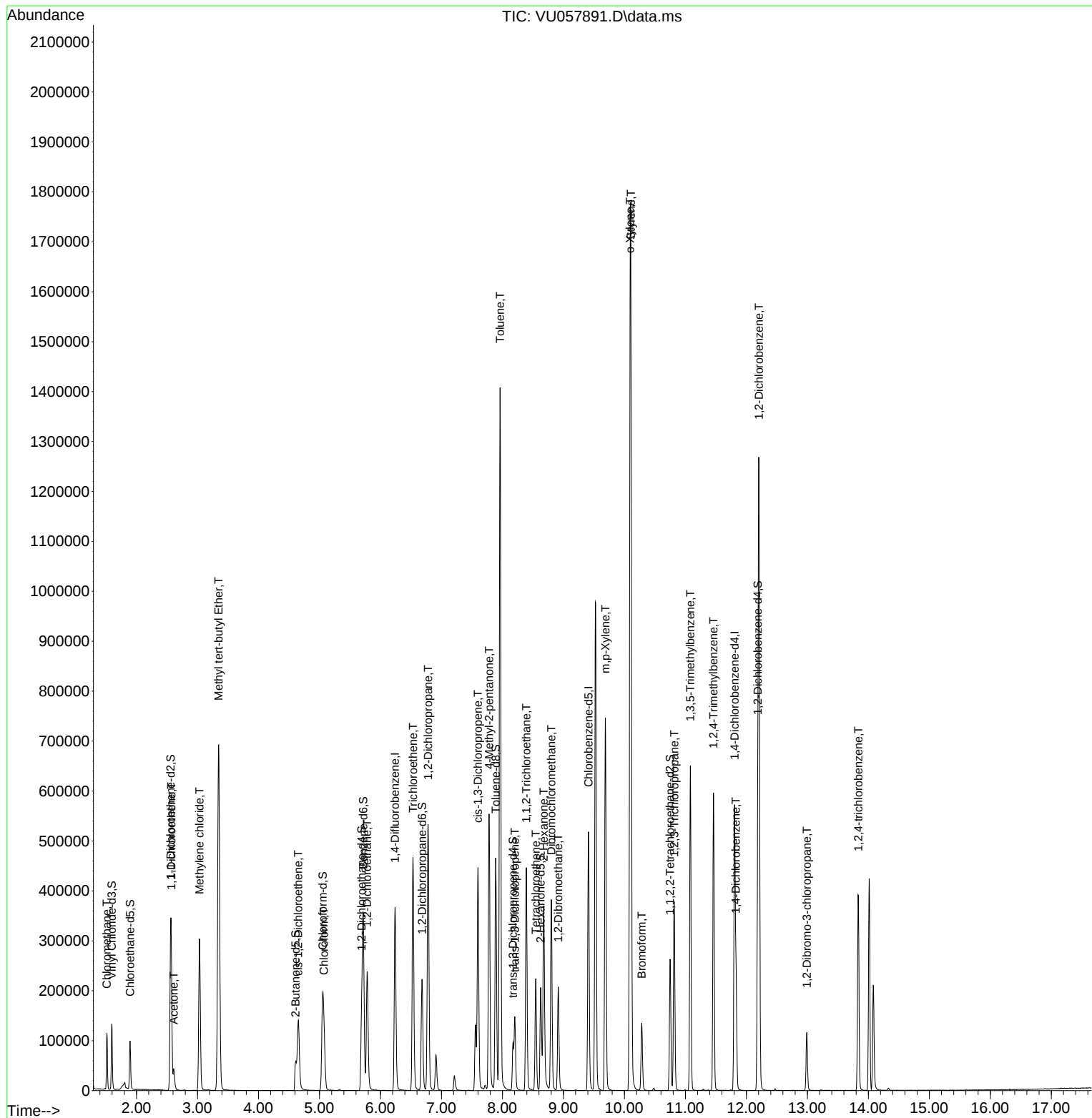
53) m,p-Xylene	9.688	106	201446	49.492	ug/L	99
54) o-Xylene	10.094	106	304714	75.770	ug/L	98
55) Styrene	10.106	104	514917	74.666	ug/L	100
59) Bromoform	10.283	173	58550	34.194	ug/L #	99
60) 1,2,3-Trichloropropane	10.817	75	161960	50.116	ug/L	99
62) 1,3,5-Trimethylbenzene	11.081	105	348123	37.067	ug/L	100
63) 1,2,4-Trimethylbenzene	11.460	105	328013	34.758	ug/L	100
65) 1,4-Dichlorobenzene	11.830	146	82850	16.874	ug/L	97
67) 1,2-Dichlorobenzene	12.206	146	452322	95.389	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.991	75	30552	39.818	ug/L	97
70) 1,2,4-trichlorobenzene	13.836	180	113551	43.504	ug/L	99

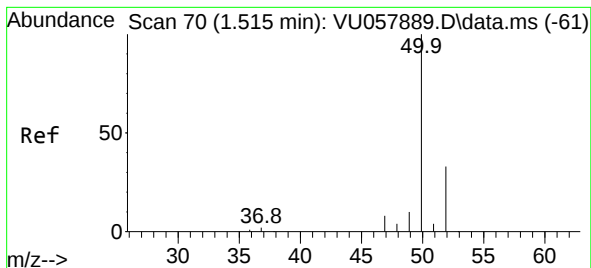
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 23.201 ug/L

RT: 1.515 min Scan# 70

Delta R.T. -0.000 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

Instrument :

MSVOA_U

ClientSampleId :

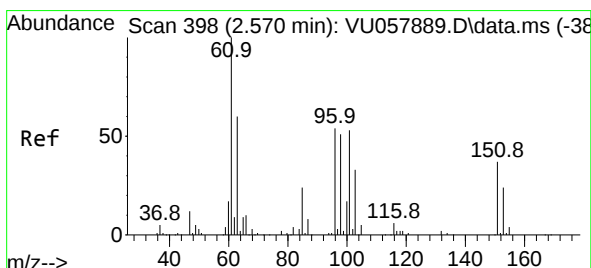
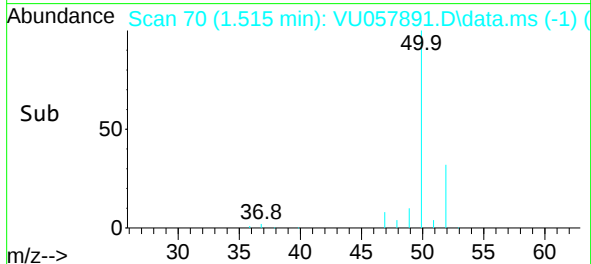
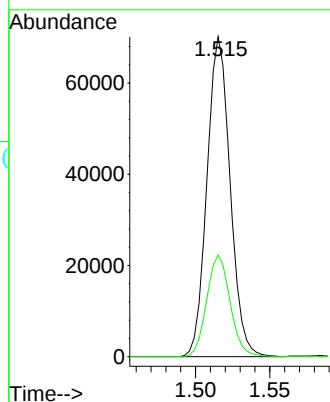
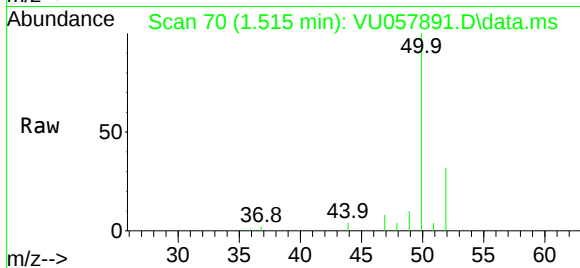
DCNF5

Tgt Ion: 50 Resp: 76040

Ion Ratio Lower Upper

50 100

52 31.7 23.8 44.2



#12

1,1-Dichloroethene

Concen: 33.385 ug/L

RT: 2.570 min Scan# 398

Delta R.T. -0.000 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

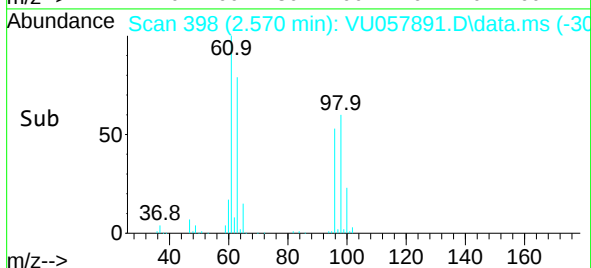
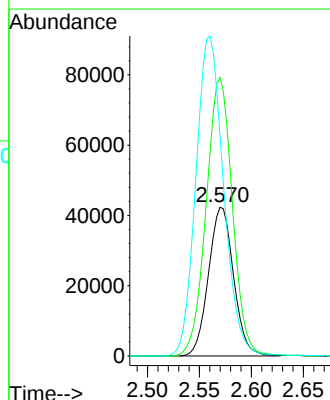
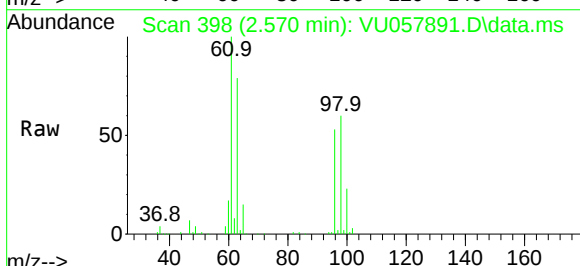
Tgt Ion: 96 Resp: 71075

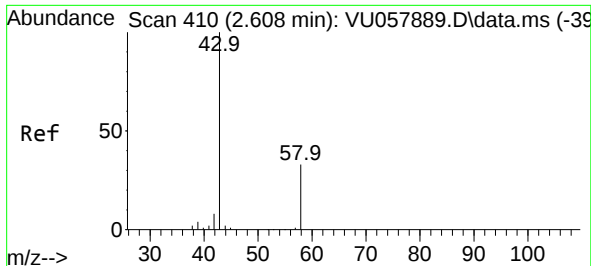
Ion Ratio Lower Upper

96 100

61 187.1 126.8 235.6

63 147.9 86.5 160.7





#13

Acetone

Concen: 30.175 ug/L

RT: 2.612 min Scan# 41

Delta R.T. 0.003 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

Instrument :

MSVOA_U

ClientSampleId :

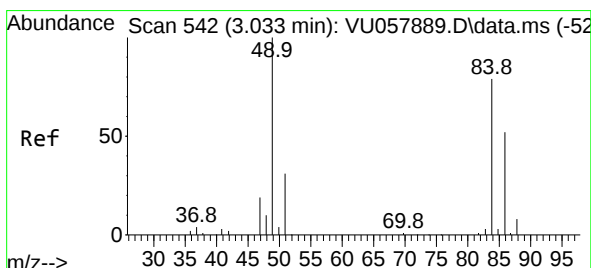
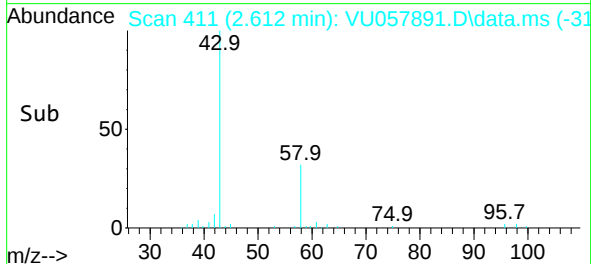
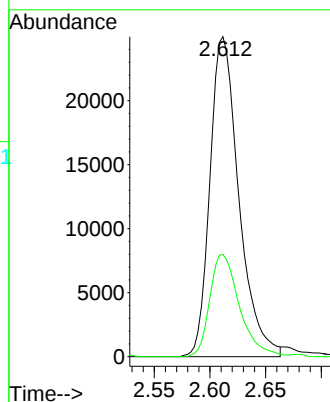
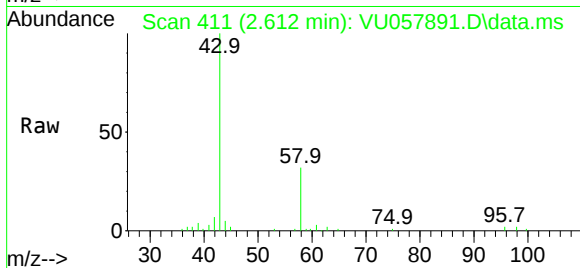
DCNF5

Tgt Ion: 43 Resp: 45189

Ion Ratio Lower Upper

43 100

58 32.8 0.0 64.2



#16

Methylene chloride

Concen: 50.300 ug/L

RT: 3.033 min Scan# 542

Delta R.T. -0.000 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

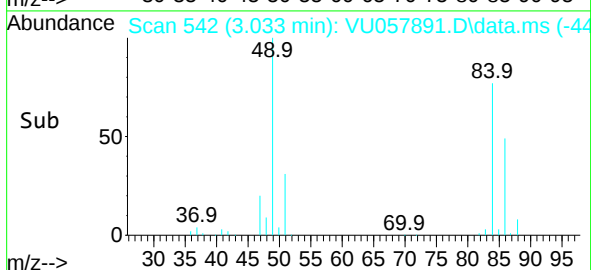
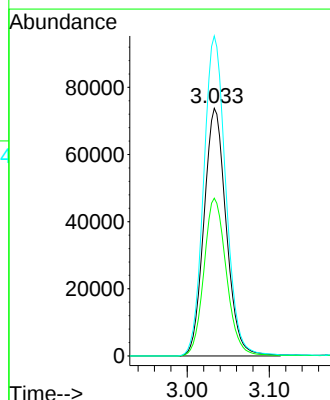
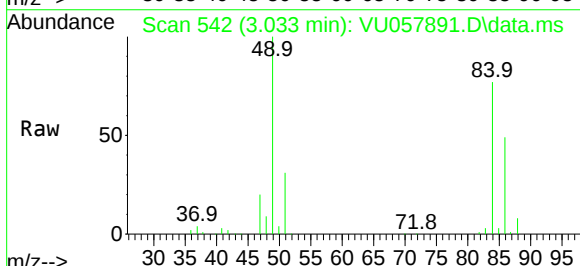
Tgt Ion: 84 Resp: 139573

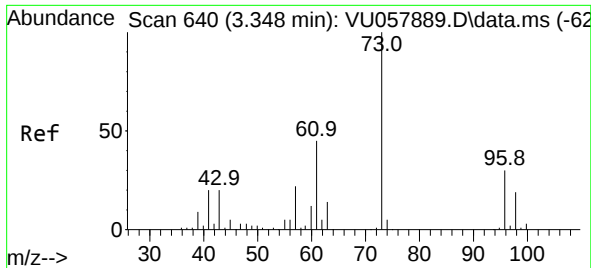
Ion Ratio Lower Upper

84 100

86 63.7 45.1 83.7

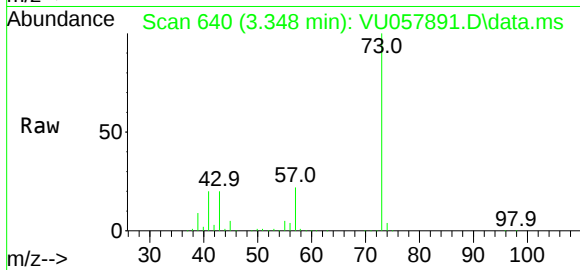
49 129.2 89.7 166.5





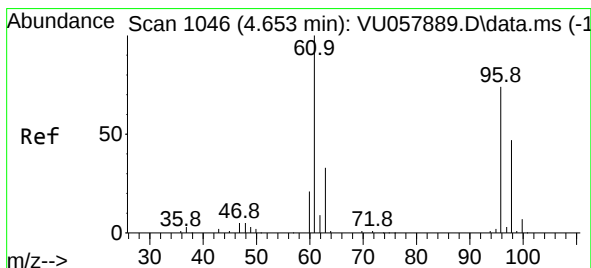
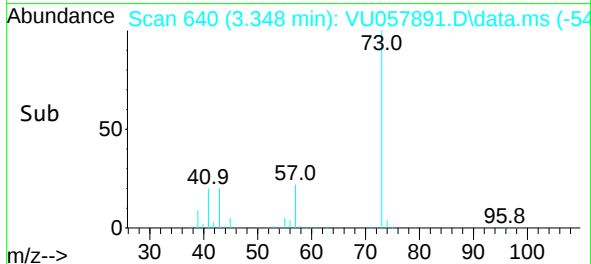
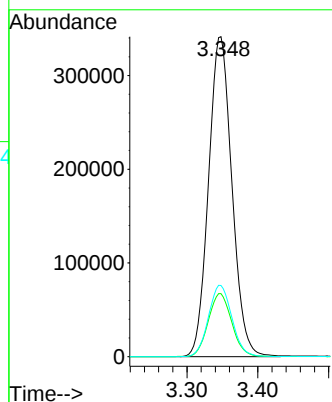
#18
Methyl tert-butyl Ether
Concen: 101.881 ug/L
RT: 3.348 min Scan# 640
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Instrument :
MSVOA_U
ClientSampleId :
DCNF5



Tgt Ion: 73 Resp: 783435

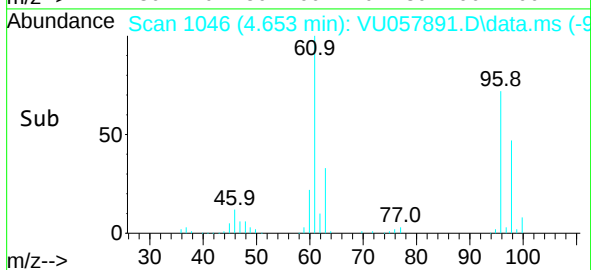
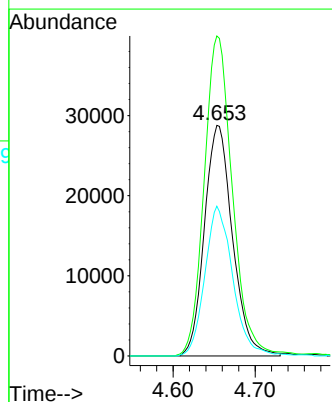
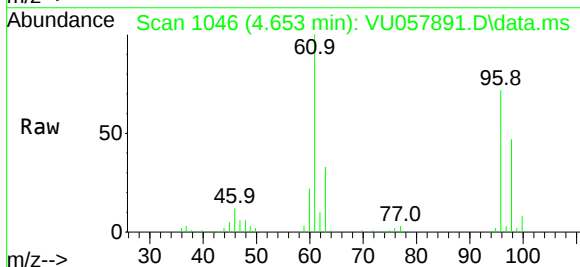
Ion	Ratio	Lower	Upper
73	100		
43	19.8	16.0	24.0
57	22.4	17.8	26.6

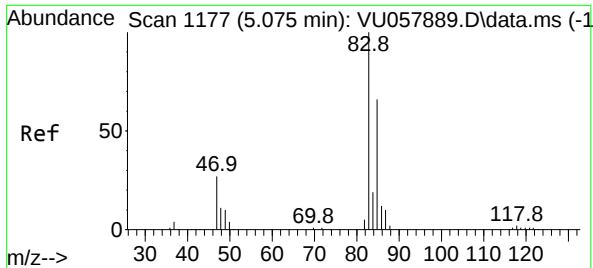


#20
cis-1,2-Dichloroethene
Concen: 27.081 ug/L
RT: 4.653 min Scan# 1046
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Tgt Ion: 96 Resp: 68617

Ion	Ratio	Lower	Upper
96	100		
61	138.7	96.7	179.7
98	65.0	44.3	82.3

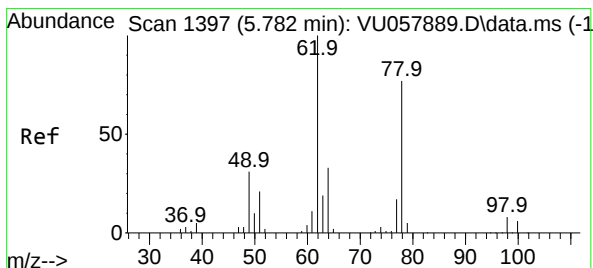
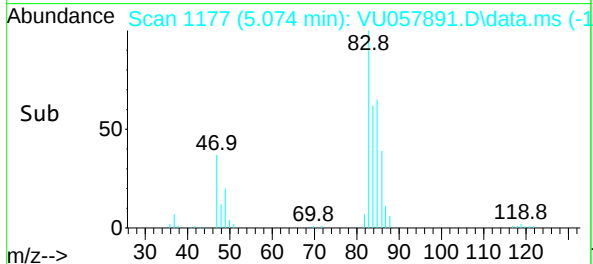
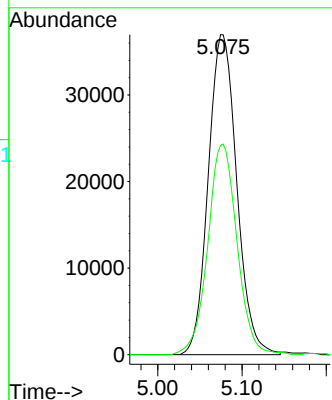
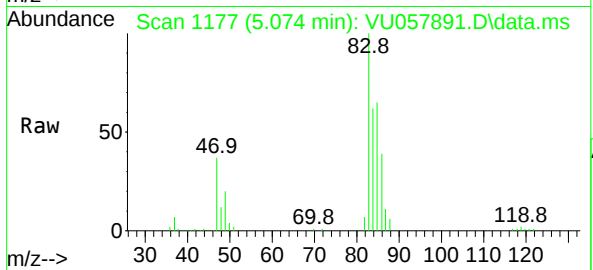




#25
Chloroform
Concen: 19.225 ug/L
RT: 5.074 min Scan# 1177
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

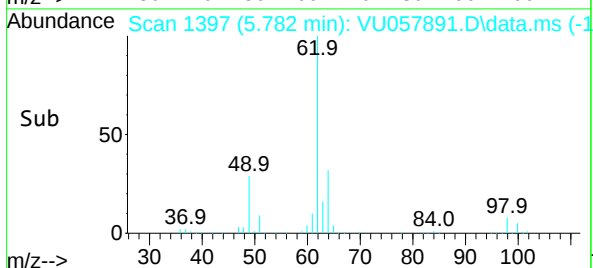
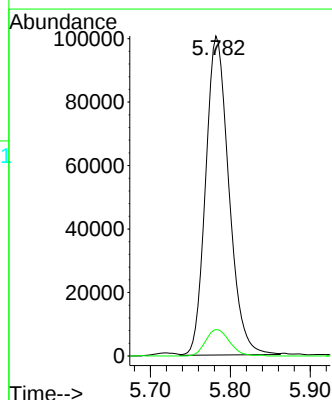
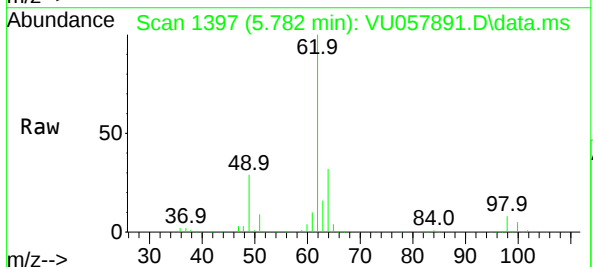
Instrument :
MSVOA_U
ClientSampleId :
DCNF5

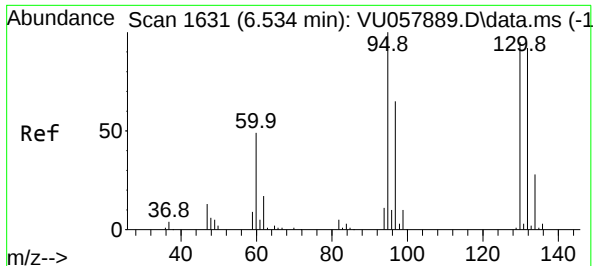
Tgt Ion: 83 Resp: 86922
Ion Ratio Lower Upper
83 100
85 65.4 45.6 84.6



#27
1,2-Dichloroethane
Concen: 53.965 ug/L
RT: 5.782 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Tgt Ion: 62 Resp: 203022
Ion Ratio Lower Upper
62 100
98 8.3 7.1 10.7

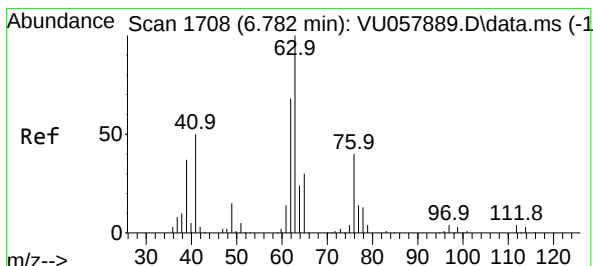
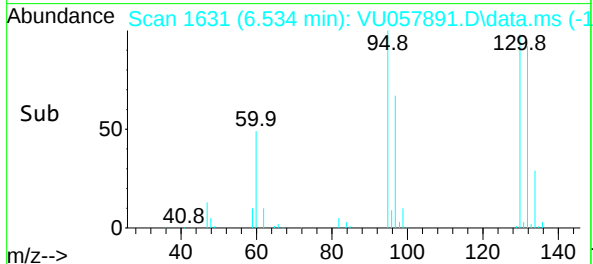
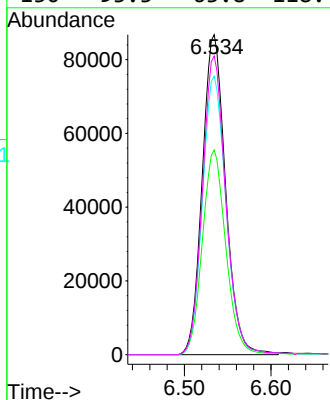
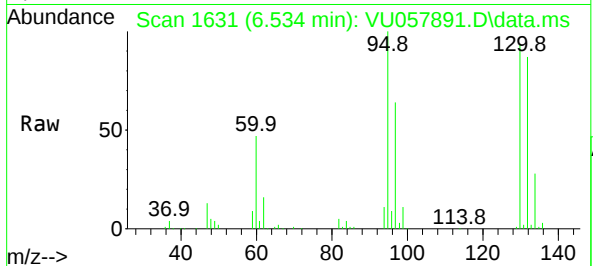




#34
Trichloroethene
Concen: 65.536 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

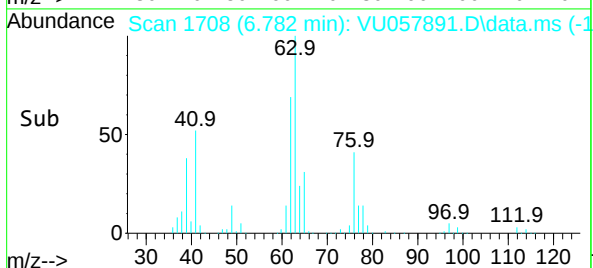
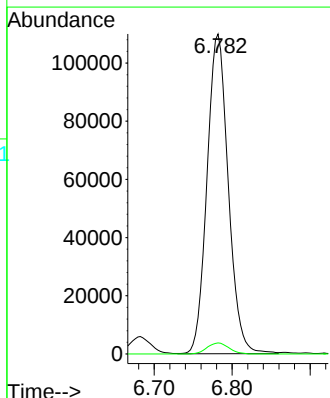
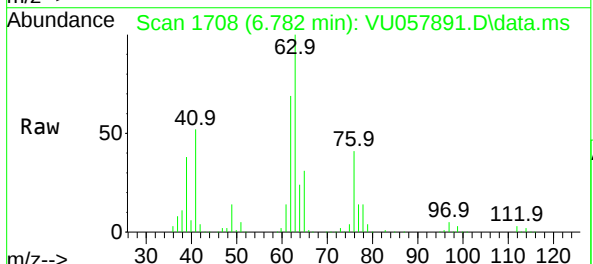
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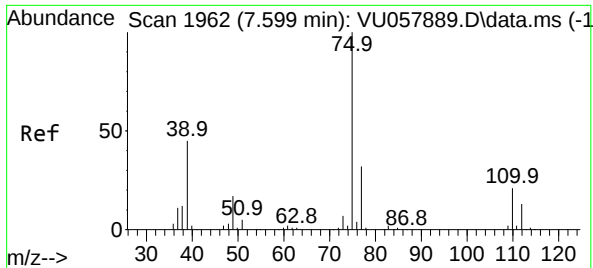
Tgt Ion: 95 Resp: 162475
Ion Ratio Lower Upper
95 100
97 64.0 44.2 82.2
132 87.0 61.4 114.0
130 93.3 63.8 118.4



#37
1,2-Dichloropropane
Concen: 76.553 ug/L
RT: 6.782 min Scan# 1708
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Tgt Ion: 63 Resp: 208332
Ion Ratio Lower Upper
63 100
112 3.5 2.9 4.3

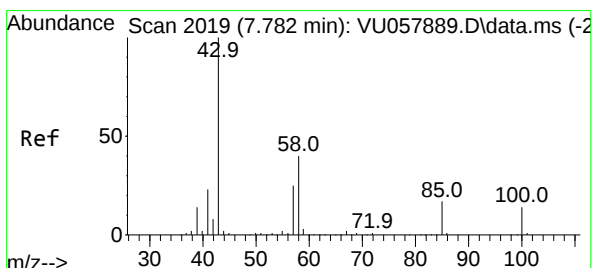
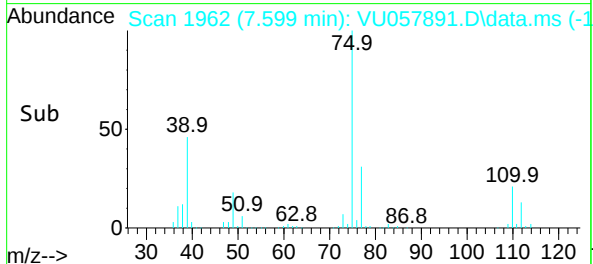
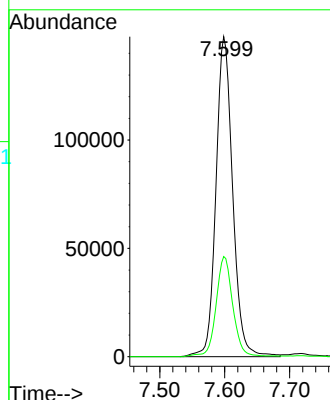
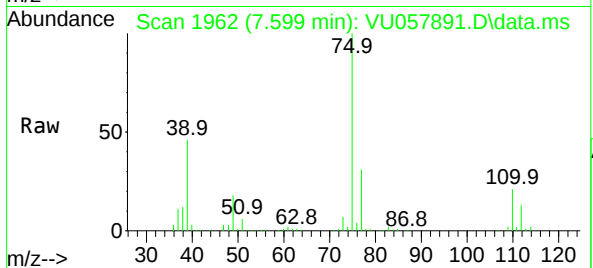




#39
 cis-1,3-Dichloropropene
 Concen: 63.295 ug/L
 RT: 7.599 min Scan# 1962
 Delta R.T. -0.000 min
 Lab File: VU057891.D
 Acq: 20 Feb 2024 10:36

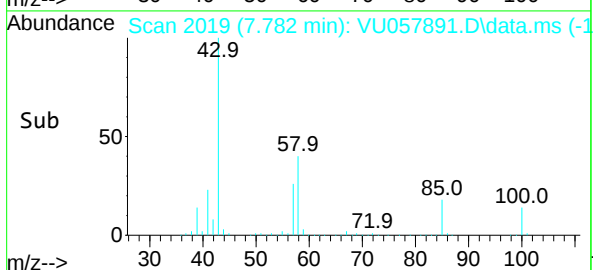
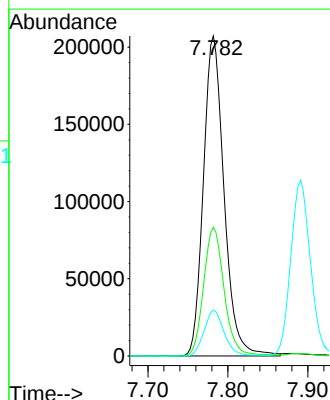
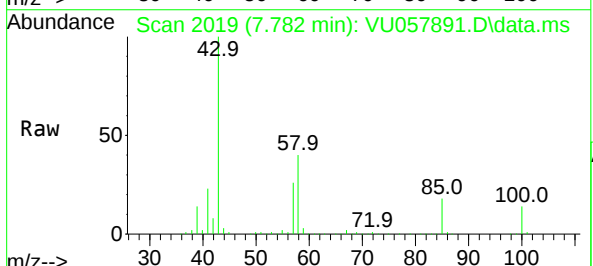
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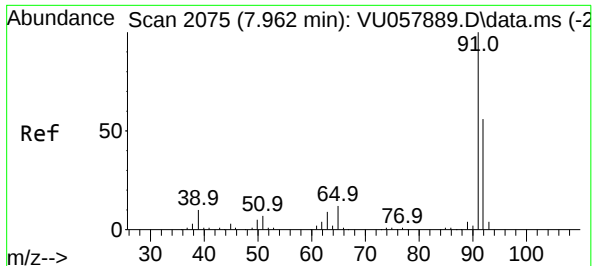
Tgt Ion: 75 Resp: 263232
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 108.736 ug/L
 RT: 7.782 min Scan# 2019
 Delta R.T. -0.000 min
 Lab File: VU057891.D
 Acq: 20 Feb 2024 10:36

Tgt Ion: 43 Resp: 372490
 Ion Ratio Lower Upper
 43 100
 58 39.9 32.3 48.5
 100 14.0 11.4 17.0





#42

Toluene

Concen: 100.653 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.000 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

Instrument :

MSVOA_U

ClientSampleId :

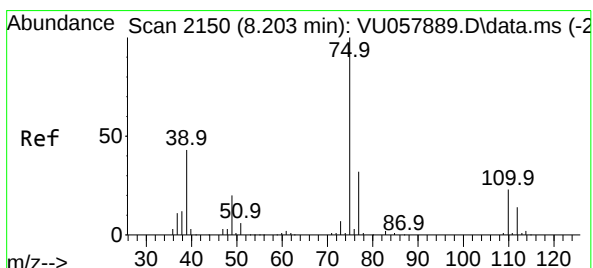
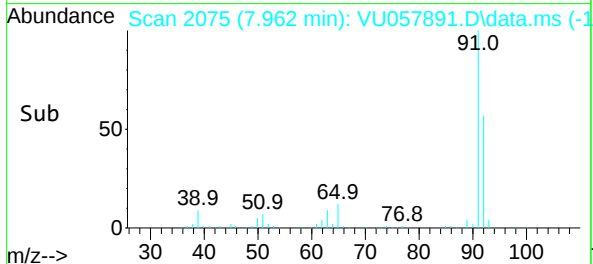
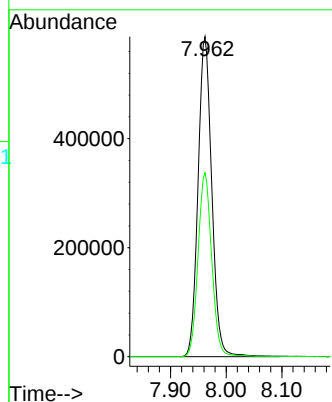
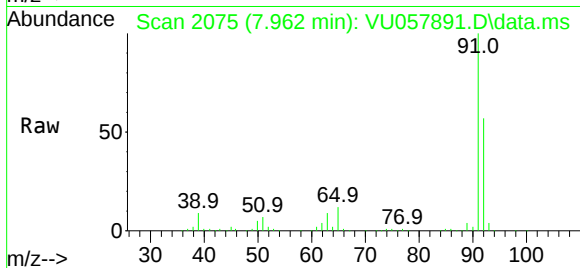
DCNF5

Tgt Ion: 91 Resp: 1004665

Ion Ratio Lower Upper

91 100

92 57.5 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 22.086 ug/L

RT: 8.203 min Scan# 2150

Delta R.T. -0.000 min

Lab File: VU057891.D

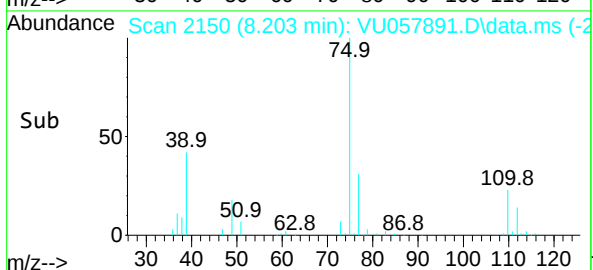
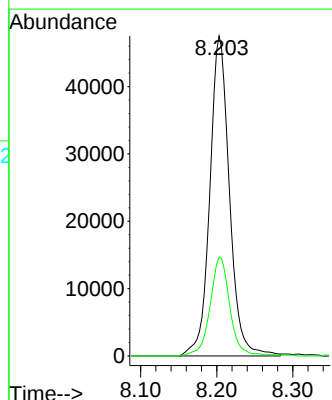
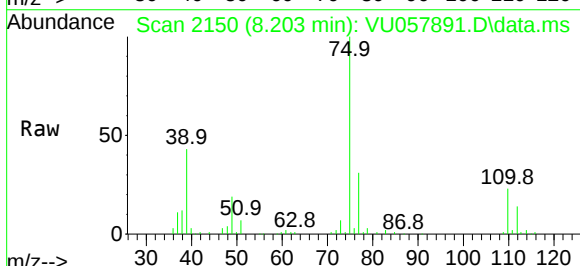
Acq: 20 Feb 2024 10:36

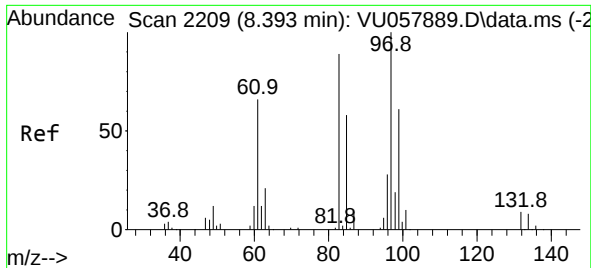
Tgt Ion: 75 Resp: 85241

Ion Ratio Lower Upper

75 100

77 30.9 21.8 40.4



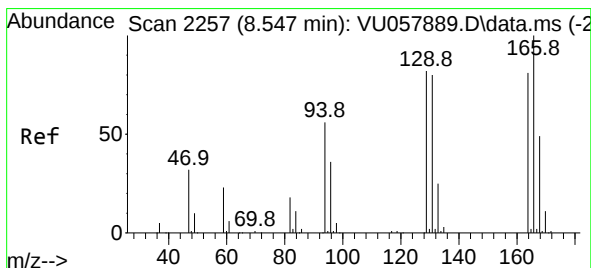
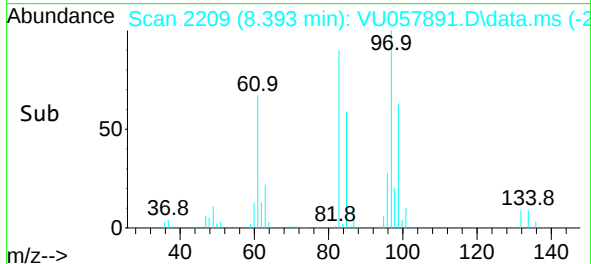
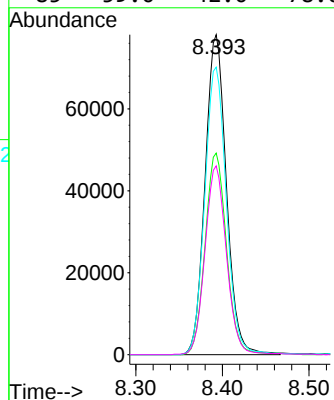
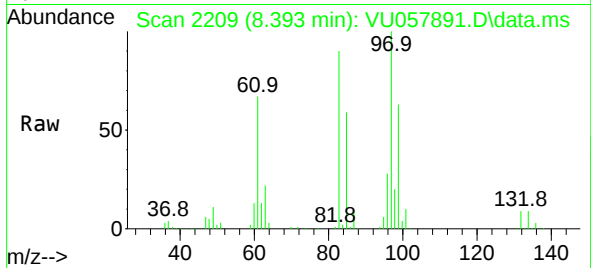


#45
1,1,2-Trichloroethane
Concen: 55.266 ug/L
RT: 8.393 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Instrument :
MSVOA_U
ClientSampleId :
DCNF5

Tgt Ion: 97 Resp: 133635

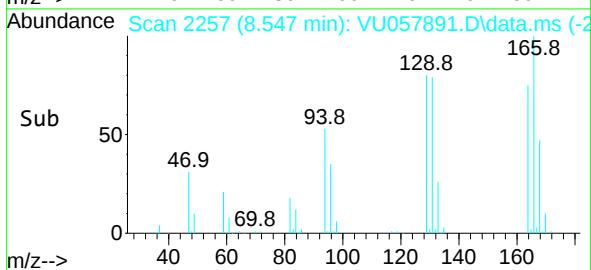
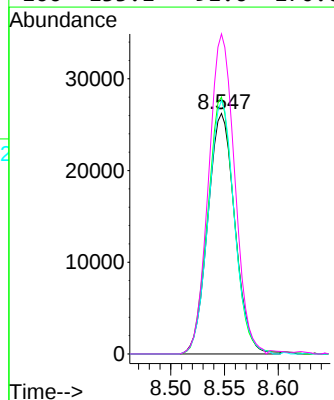
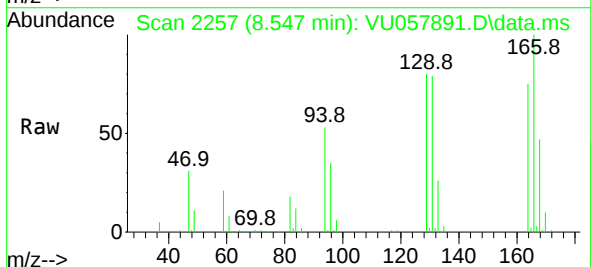
Ion	Ratio	Lower	Upper
97	100		
99	63.0	43.0	80.0
83	89.8	65.0	120.6
85	59.0	42.0	78.0

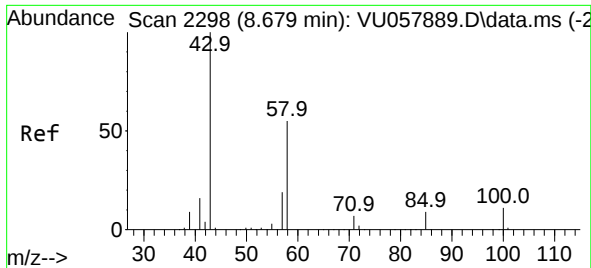


#46
Tetrachloroethene
Concen: 26.861 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Tgt Ion: 164 Resp: 45829

Ion	Ratio	Lower	Upper
164	100		
129	106.9	74.1	137.7
131	105.5	72.0	133.6
166	133.1	91.6	170.0

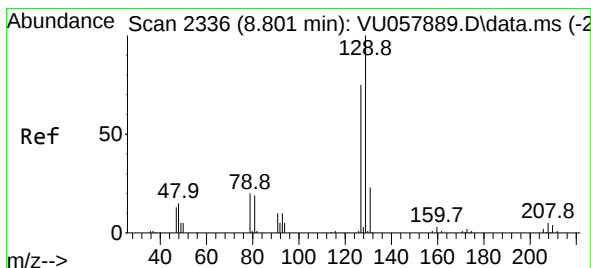
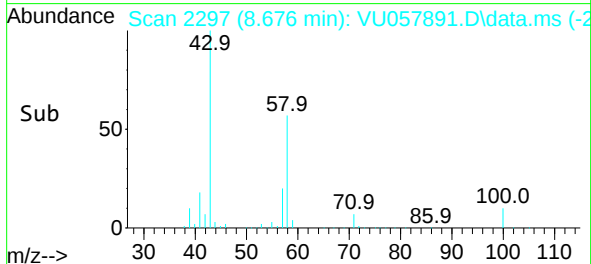
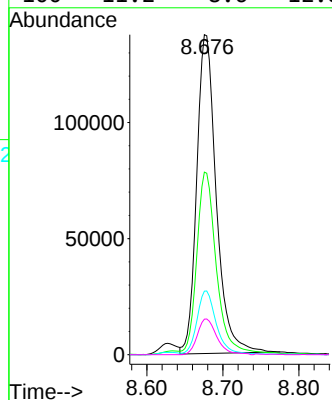
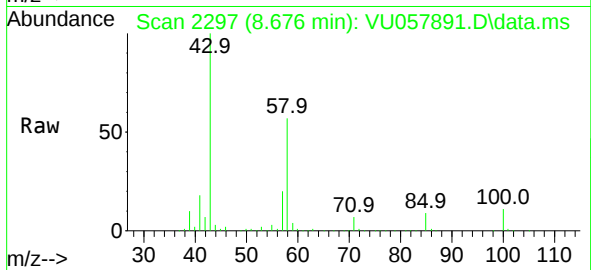




#48
2-Hexanone
Concen: 87.895 ug/L
RT: 8.676 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

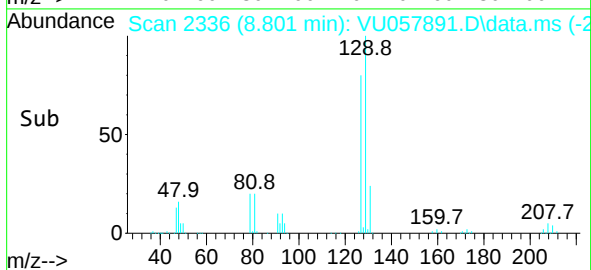
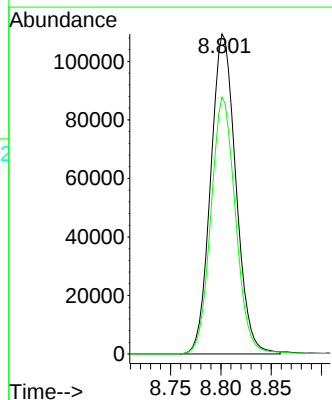
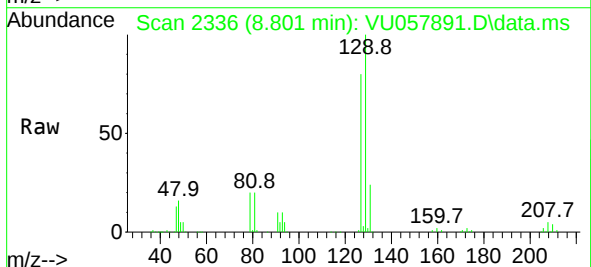
Instrument :
MSVOA_U
ClientSampleId :
DCNF5

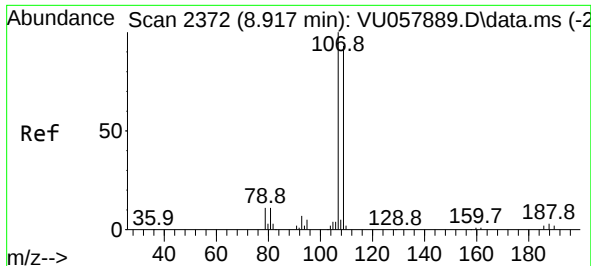
Tgt Ion: 43 Resp: 245762
Ion Ratio Lower Upper
43 100
58 55.6 43.8 65.8
57 19.2 15.5 23.3
100 11.2 8.6 12.8



#49
Dibromochloromethane
Concen: 79.147 ug/L
RT: 8.801 min Scan# 2336
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Tgt Ion: 129 Resp: 190592
Ion Ratio Lower Upper
129 100
127 80.3 53.3 99.1





#50

1,2-Dibromoethane

Concen: 52.806 ug/L

RT: 8.917 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

Instrument :

MSVOA_U

ClientSampleId :

DCNF5

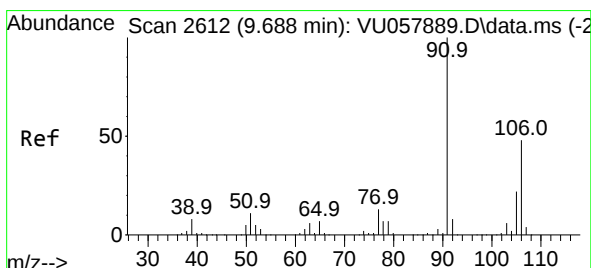
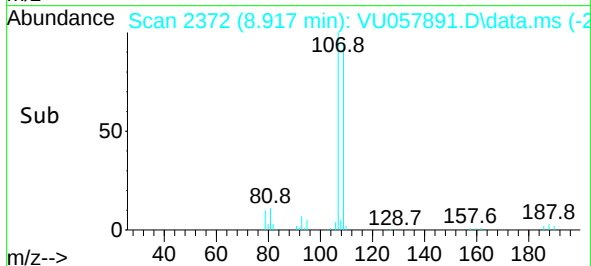
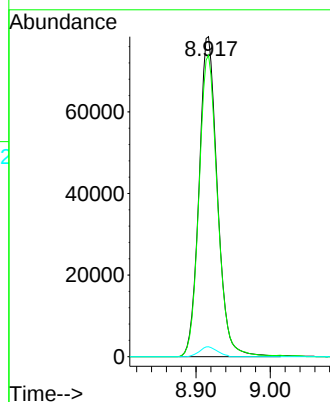
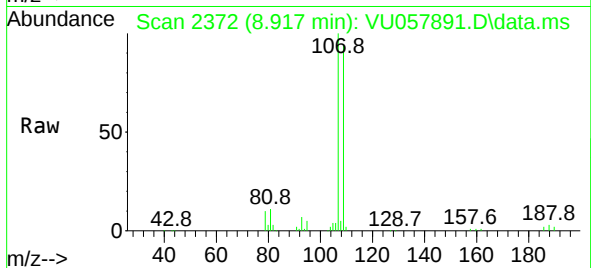
Tgt Ion:107 Resp: 134445

Ion Ratio Lower Upper

107 100

109 94.3 66.1 122.8

188 3.1 2.6 3.8



#53

m,p-Xylene

Concen: 49.492 ug/L

RT: 9.688 min Scan# 2612

Delta R.T. -0.000 min

Lab File: VU057891.D

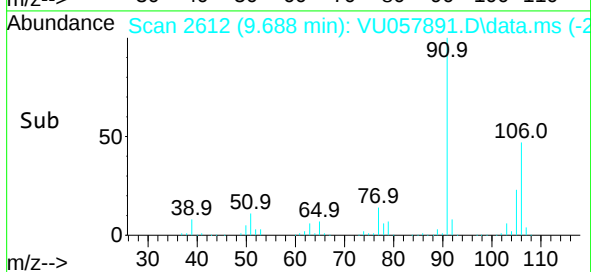
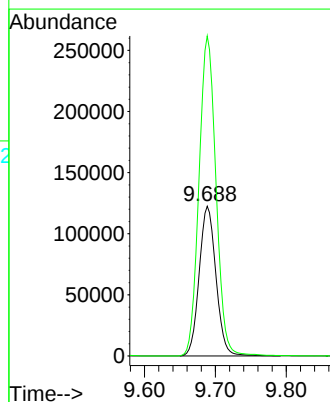
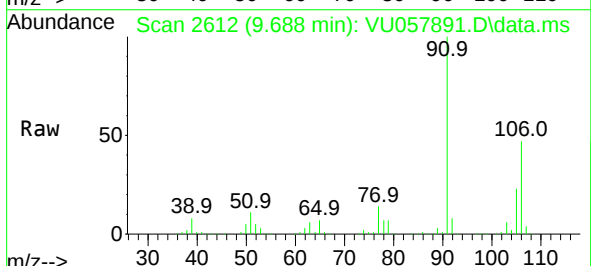
Acq: 20 Feb 2024 10:36

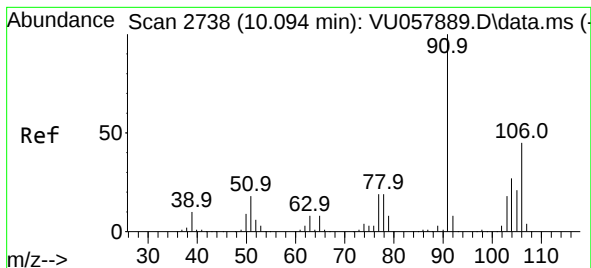
Tgt Ion:106 Resp: 201446

Ion Ratio Lower Upper

106 100

91 213.8 150.2 279.0





#54

o-Xylene

Concen: 75.770 ug/L

RT: 10.094 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

Instrument :

MSVOA_U

ClientSampleId :

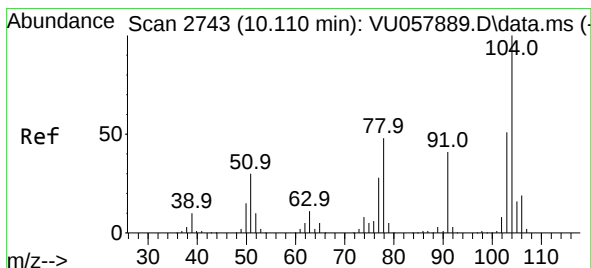
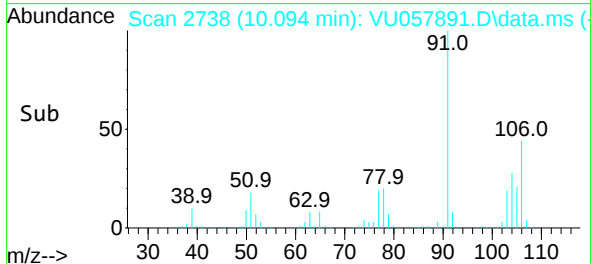
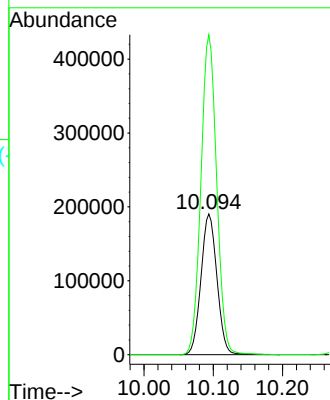
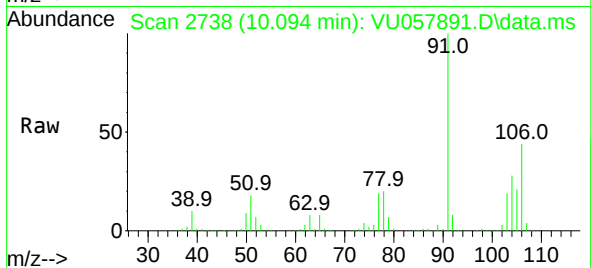
DCNF5

Tgt Ion:106 Resp: 304714

Ion Ratio Lower Upper

106 100

91 227.4 161.3 299.5



#55

Styrene

Concen: 74.666 ug/L

RT: 10.106 min Scan# 2742

Delta R.T. -0.003 min

Lab File: VU057891.D

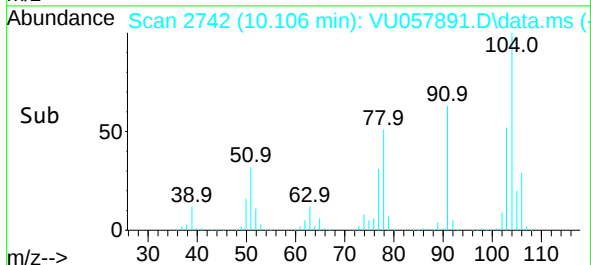
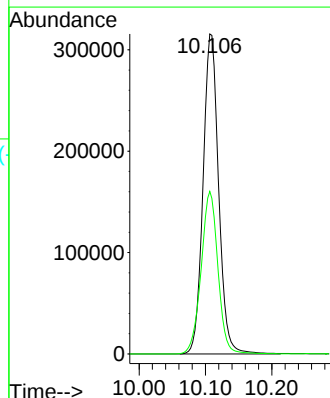
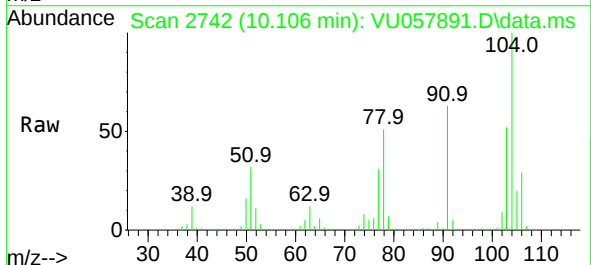
Acq: 20 Feb 2024 10:36

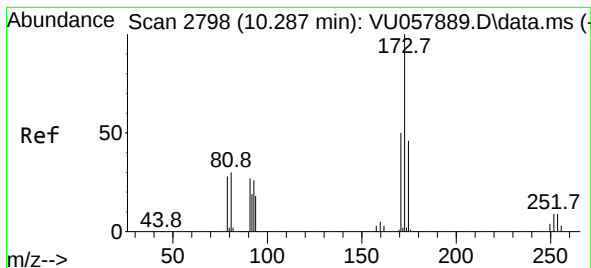
Tgt Ion:104 Resp: 514917

Ion Ratio Lower Upper

104 100

78 50.8 35.6 66.2





#59

Bromoform

Concen: 34.194 ug/L

RT: 10.283 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

Instrument :

MSVOA_U

ClientSampleId :

DCNF5

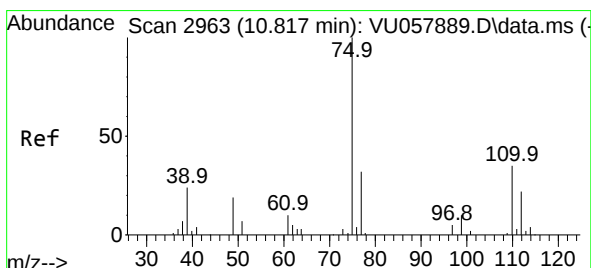
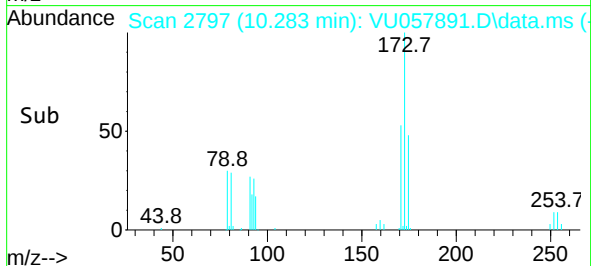
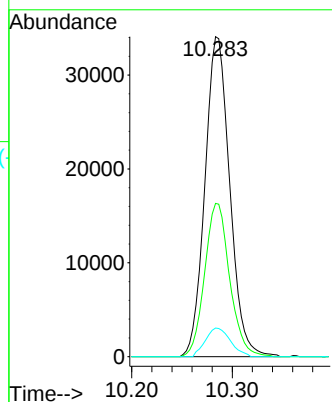
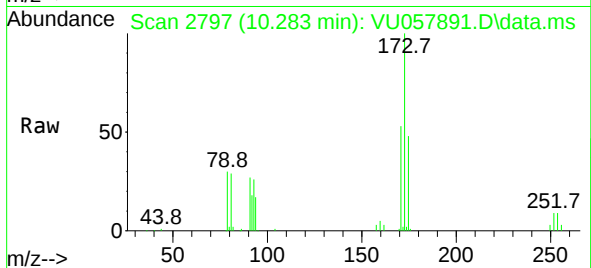
Tgt Ion:173 Resp: 58550

Ion Ratio Lower Upper

173 100

175 48.2 38.8 58.2

254 9.0 1.0 1.6#



#60

1,2,3-Trichloropropane

Concen: 50.116 ug/L

RT: 10.817 min Scan# 2963

Delta R.T. -0.000 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

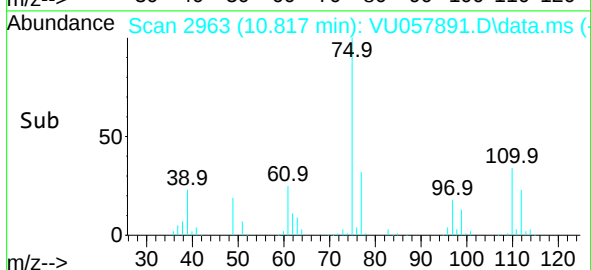
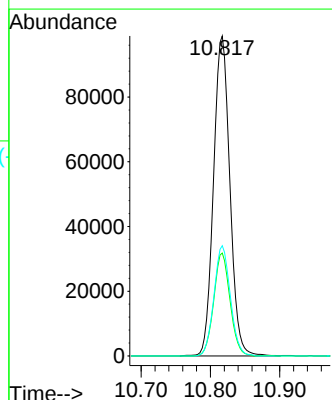
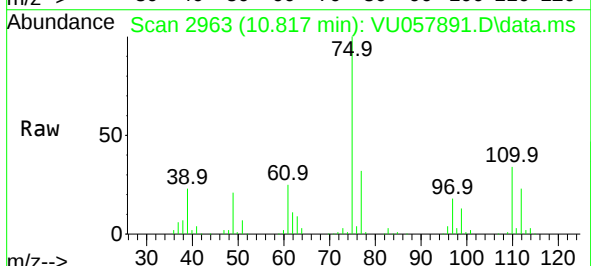
Tgt Ion: 75 Resp: 161960

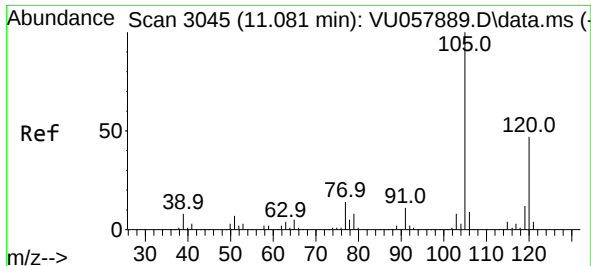
Ion Ratio Lower Upper

75 100

77 32.0 25.9 38.9

110 34.5 28.3 42.5





#62

1,3,5-Trimethylbenzene

Concen: 37.067 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. -0.000 min

Lab File: VU057891.D

Acq: 20 Feb 2024 10:36

Instrument :

MSVOA_U

ClientSampleId :

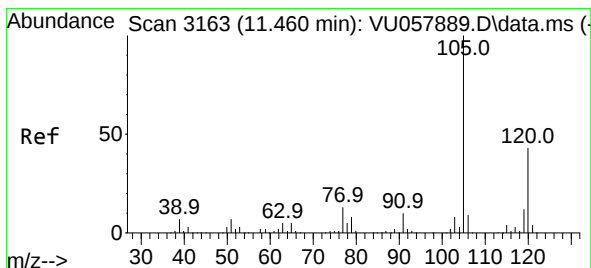
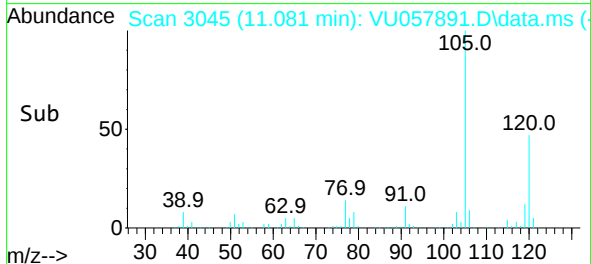
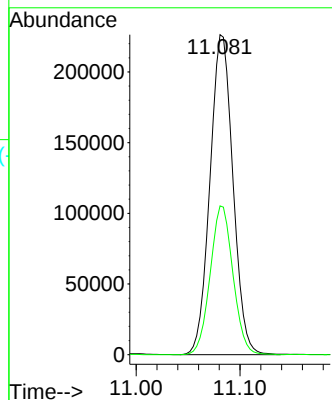
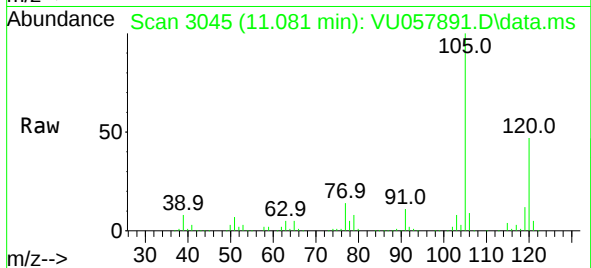
DCNF5

Tgt Ion:105 Resp: 348123

Ion Ratio Lower Upper

105 100

120 46.0 37.0 55.6



#63

1,2,4-Trimethylbenzene

Concen: 34.758 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. -0.000 min

Lab File: VU057891.D

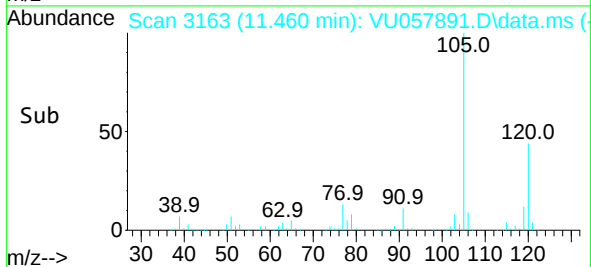
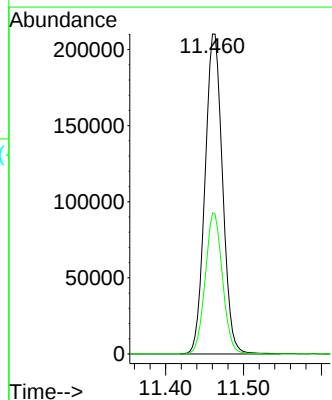
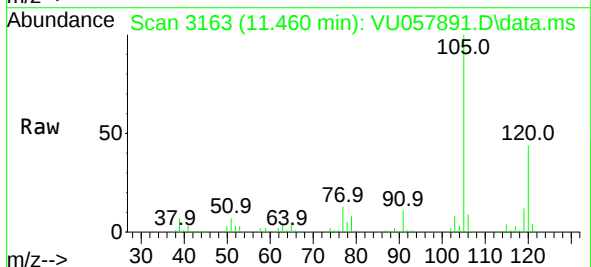
Acq: 20 Feb 2024 10:36

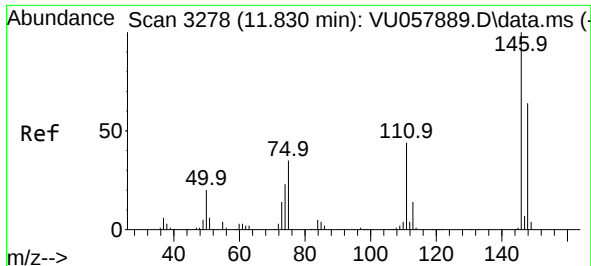
Tgt Ion:105 Resp: 328013

Ion Ratio Lower Upper

105 100

120 43.3 34.8 52.2

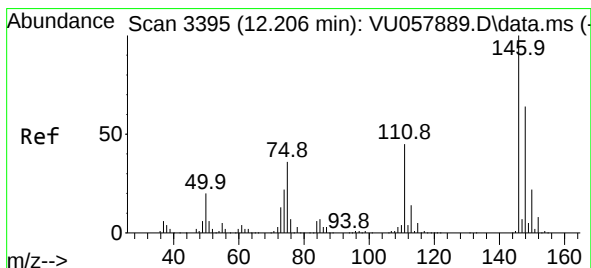
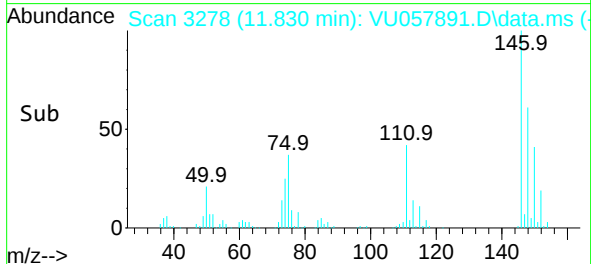
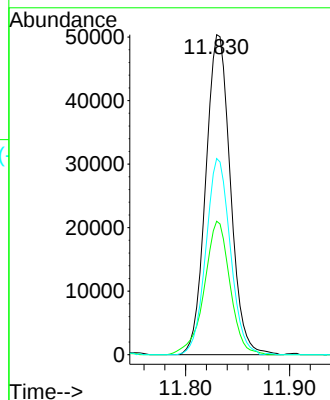
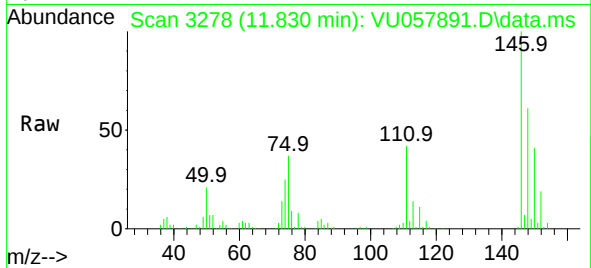




#65
1,4-Dichlorobenzene
Concen: 16.874 ug/L
RT: 11.830 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

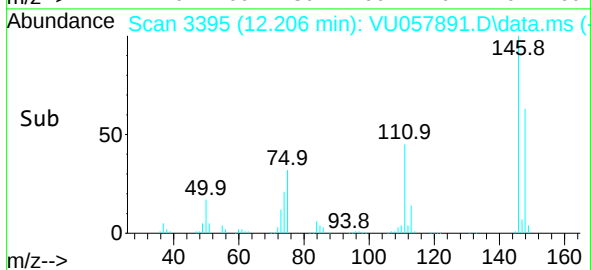
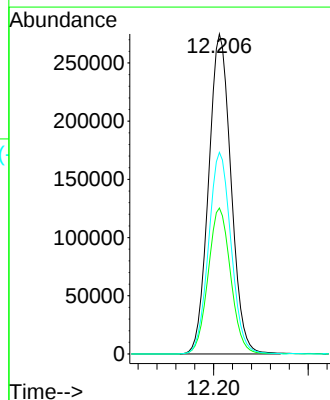
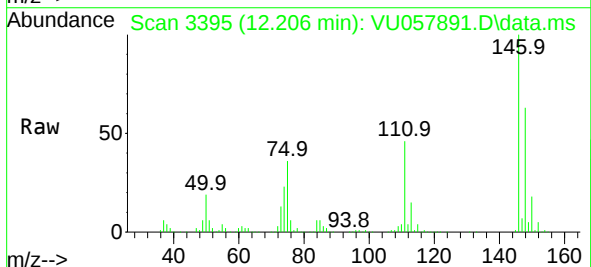
Instrument :
MSVOA_U
ClientSampleId :
DCNF5

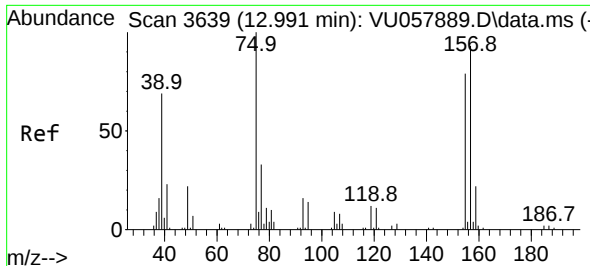
Tgt Ion:146 Resp: 82850
Ion Ratio Lower Upper
146 100
111 41.7 29.9 55.5
148 61.3 44.7 82.9



#67
1,2-Dichlorobenzene
Concen: 95.389 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Tgt Ion:146 Resp: 452322
Ion Ratio Lower Upper
146 100
111 45.6 37.3 55.9
148 63.0 51.3 76.9

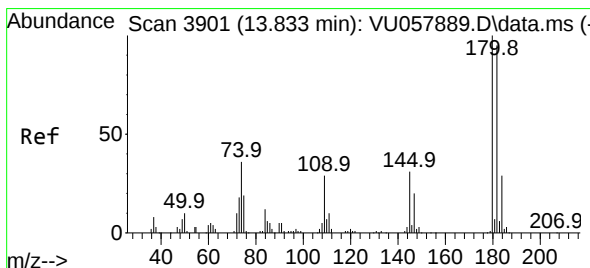
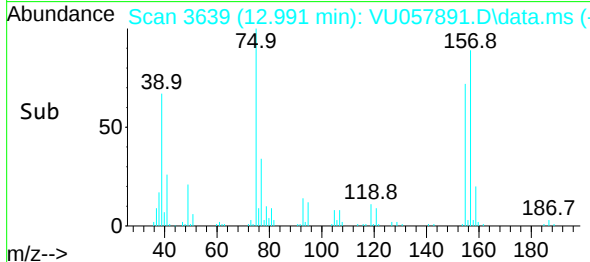
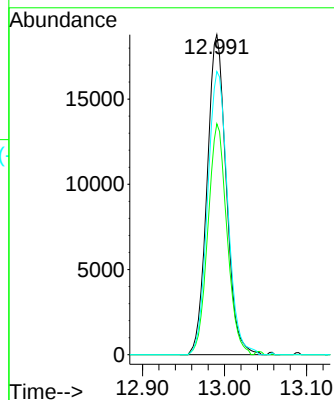
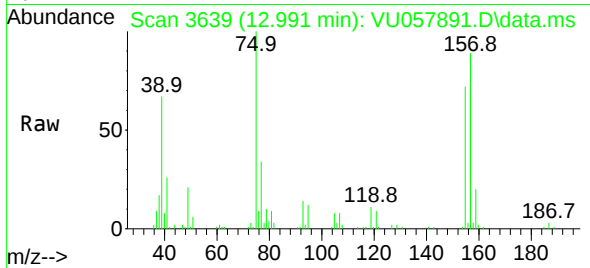




#68
1,2-Dibromo-3-chloropropane
Concen: 39.818 ug/L
RT: 12.991 min Scan# 30552
Delta R.T. -0.000 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Instrument :
MSVOA_U
ClientSampleId :
DCNF5

Tgt Ion: 75 Resp: 30552
Ion Ratio Lower Upper
75 100
155 75.5 63.2 94.8
157 91.9 74.6 112.0



#70
1,2,4-trichlorobenzene
Concen: 43.504 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.003 min
Lab File: VU057891.D
Acq: 20 Feb 2024 10:36

Tgt Ion:180 Resp: 113551
Ion Ratio Lower Upper
180 100
182 95.3 75.8 113.6
145 32.4 25.9 38.9

