

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU030824\
 Data File : VU058010.D
 Acq On : 08 Mar 2024 12:23
 Operator : MD/SY
 Sample : P1636-01DL 2X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 09 00:12:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR022924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Mar 09 00:10:03 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	146923	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	139698	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	66057	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	46347	4.384	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.600%
7) Chloroethane-d5	1.907	69	41024	4.722	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.400%
11) 1,1-Dichloroethene-d2	2.560	65	21017	4.594	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.800%
20) 2-Butanone-d5	4.611	46	92872	53.322	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.640%
24) Chloroform-d	5.052	84	96359	4.820	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.400%
26) 1,2-Dichloroethane-d4	5.692	65	47243	5.215	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.400%
32) Benzene-d6	5.717	84	192184	4.721	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.400%
36) 1,2-Dichloropropane-d6	6.682	67	61520	4.971	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.400%
41) Toluene-d8	7.891	98	168341	4.564	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.200%
43) trans-1,3-Dichloroprop...	8.177	79	19961	4.690	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.800%
46) 2-Hexanone-d5	8.627	63	81295	56.893	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.780%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	39288	5.177	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.600%
66) 1,2-Dichlorobenzene-d4	12.187	152	56670	5.209	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.200%

Target Compounds				Qvalue		
5) Vinyl chloride	1.599	62	66487	5.938	ug/L	100
12) 1,1-Dichloroethene	2.573	96	69299	7.817	ug/L #	81
16) Methylene chloride	3.036	84	126432	11.734	ug/L	98
18) trans-1,2-Dichloroethene	3.345	96	82918	8.587	ug/L	100
22) cis-1,2-Dichloroethene	4.656	96	34902	3.286	ug/L	98
27) 1,2-Dichloroethane	5.785	62	18438	1.694	ug/L	97
29) 1,1,1-Trichloroethane	5.306	97	118871	7.149	ug/L	99
31) Carbon tetrachloride	5.518	117	87732	6.072	ug/L	99
33) Benzene	5.766	78	425694	9.930	ug/L	100
34) Trichloroethene	6.537	95	30934	2.743	ug/L	96
35) Methylcyclohexane	6.682	83	13498	0.781	ug/L #	28
37) 1,2-Dichloropropane	6.782	63	87468	7.913	ug/L	100
42) Toluene	7.962	91	469083	10.508	ug/L	99
45) 1,1,2-Trichloroethane	8.393	97	14545	2.219	ug/L	98
47) Tetrachloroethene	8.547	164	61397	7.846	ug/L	96
49) Dibromochloromethane	8.547	129	62770	8.091	ug/L #	10
51) Chlorobenzene	9.441	112	184607	6.594	ug/L	96
52) Ethylbenzene	9.563	91	466866	9.345	ug/L	99
53) m,p-Xylene	9.685	106	152297	8.533	ug/L	100

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QLast Update : Sat Mar 09 00:10:03 2024
Response via : Initial Calibration

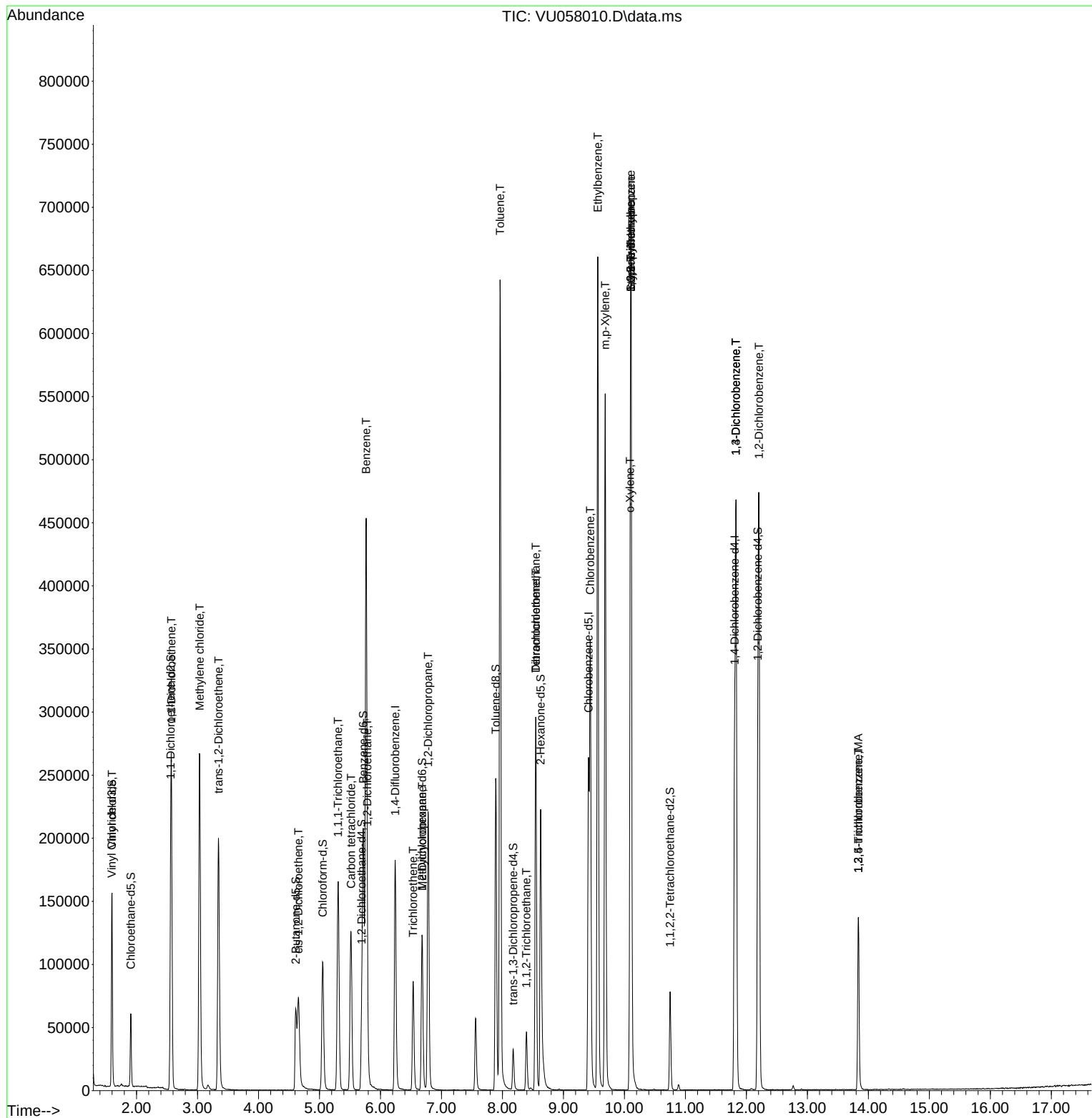
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.094	106	58721	3.301	ug/L	98
55) Styrene	10.110	104	291229	10.430	ug/L	97
60) Isopropylbenzene	10.103	105	49096	1.116	ug/L #	1
61) 1,2,3-Trichloropropane	10.106	75	14854	2.745	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.103	105	49096	1.323	ug/L #	30
64) 1,3-Dichlorobenzene	11.830	146	169449	8.474	ug/L	98
65) 1,4-Dichlorobenzene	11.830	146	169449	8.657	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	159977	9.163	ug/L	99
69) 1,3,5-Trichlorobenzene	13.836	180	41589	2.891	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	41568	3.846	ug/L	99

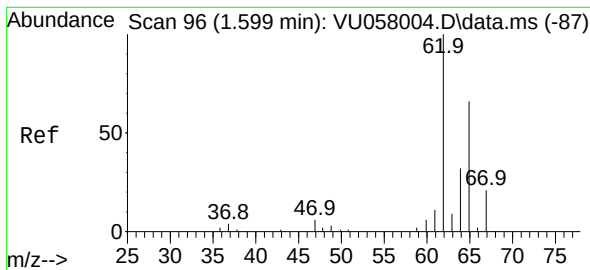
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 5.938 ug/L

RT: 1.599 min Scan# 9

Delta R.T. -0.000 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

Instrument :

MSVOA_U

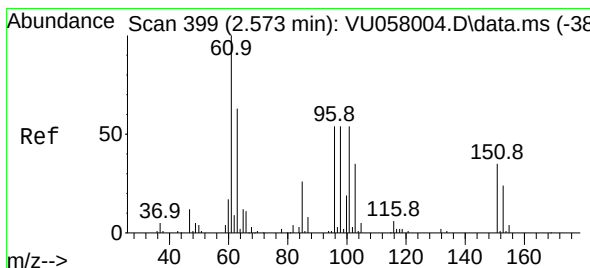
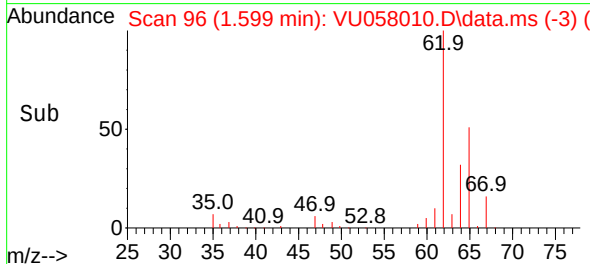
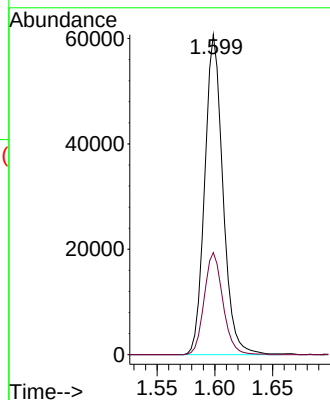
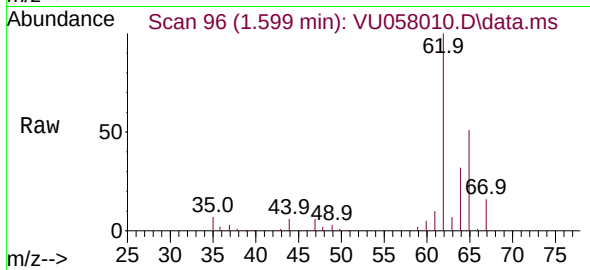
ClientSampleId :

Tgt Ion: 62 Resp: 66487

Ion Ratio Lower Upper

62 100

64 31.9 22.5 41.7



#12

1,1-Dichloroethene

Concen: 7.817 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.000 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

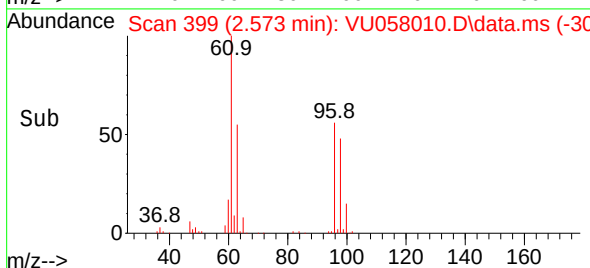
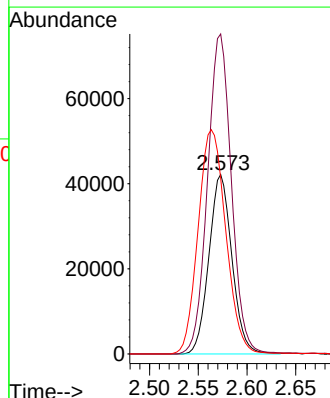
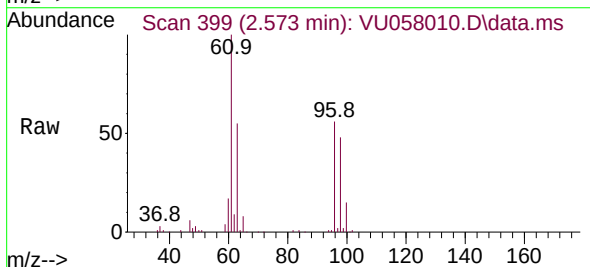
Tgt Ion: 96 Resp: 69299

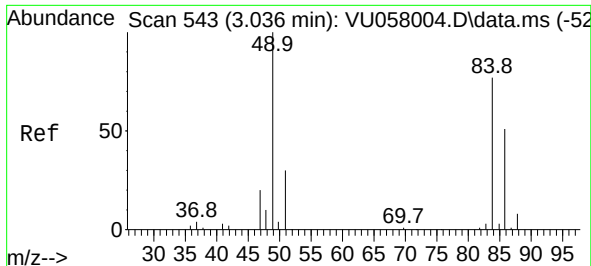
Ion Ratio Lower Upper

96 100

61 178.3 131.8 244.8

63 98.0 98.1 182.1#

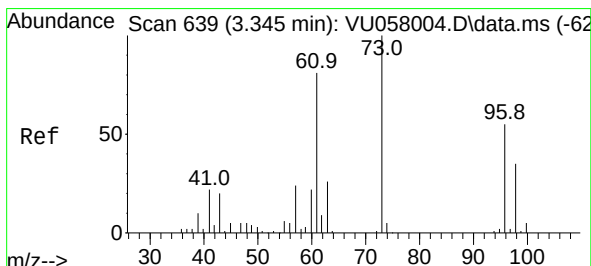
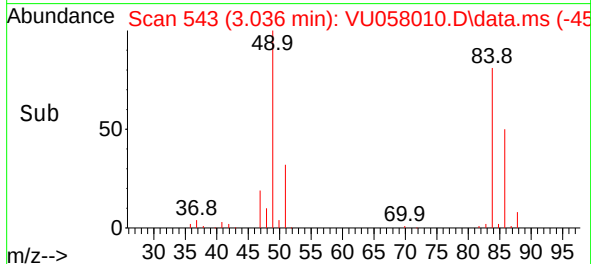
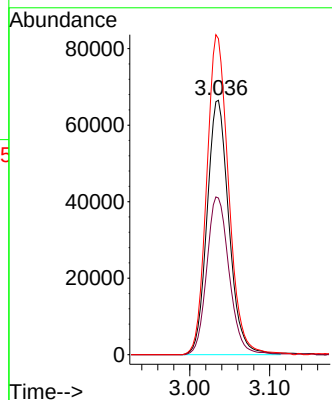
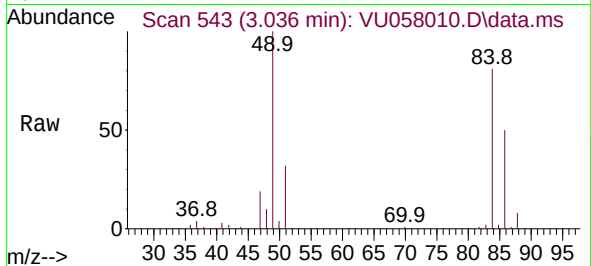




#16
Methylene chloride
Concen: 11.734 ug/L
RT: 3.036 min Scan# 543
Delta R.T. -0.000 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23

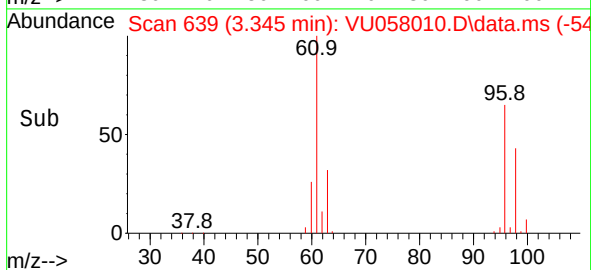
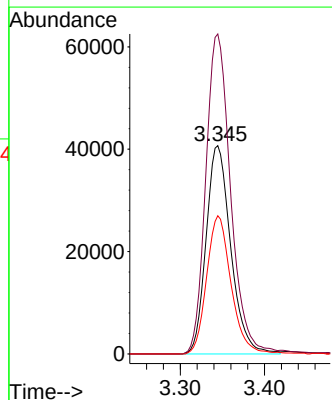
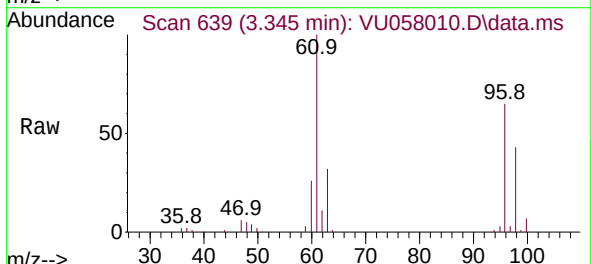
Instrument :
MSVOA_U
ClientSampleId :

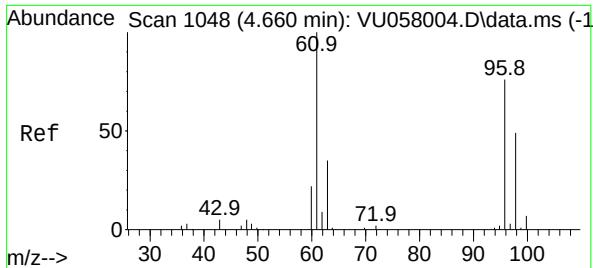
Tgt Ion: 84 Resp: 126432
Ion Ratio Lower Upper
84 100
86 61.5 44.4 82.4
49 124.2 88.8 165.0



#18
trans-1,2-Dichloroethene
Concen: 8.587 ug/L
RT: 3.345 min Scan# 639
Delta R.T. -0.000 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23

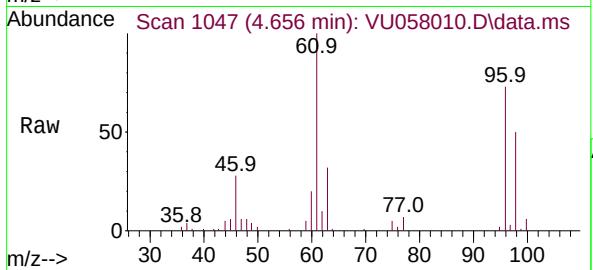
Tgt Ion: 96 Resp: 82918
Ion Ratio Lower Upper
96 100
61 153.7 107.7 199.9
98 66.4 45.8 85.0





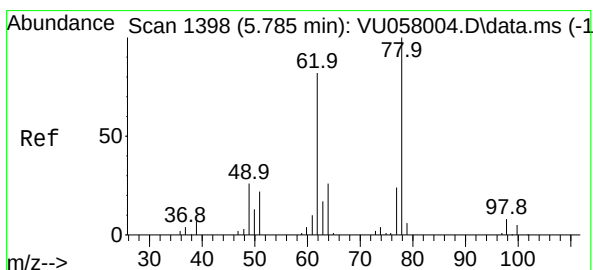
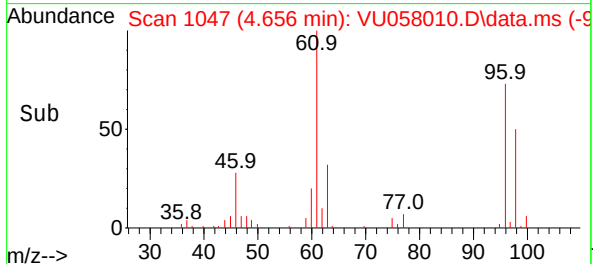
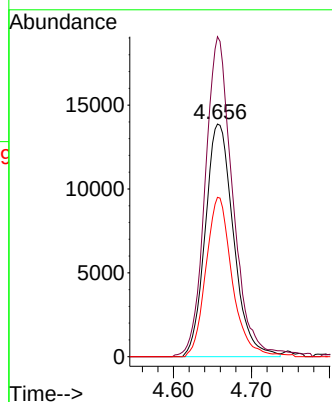
#22
 cis-1,2-Dichloroethene
 Concen: 3.286 ug/L
 RT: 4.656 min Scan# 1047
 Delta R.T. -0.003 min
 Lab File: VU058010.D
 Acq: 08 Mar 2024 12:23

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 96 Resp: 34902

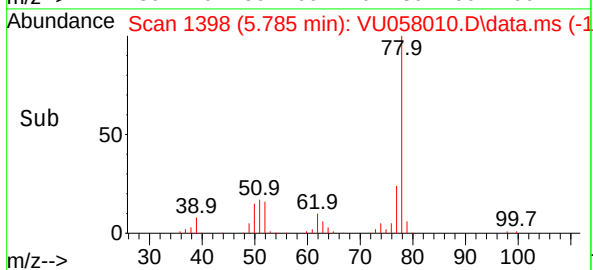
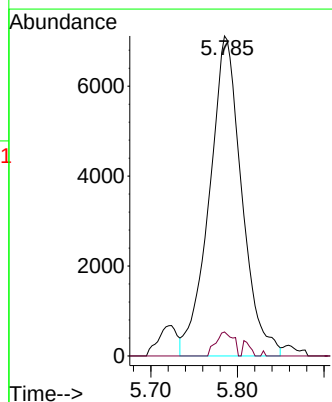
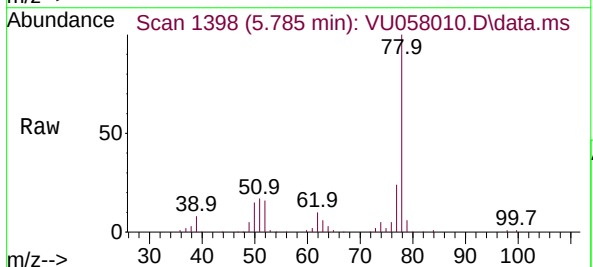
Ion	Ratio	Lower	Upper
96	100		
61	137.6	97.2	180.4
98	68.5	45.5	84.5

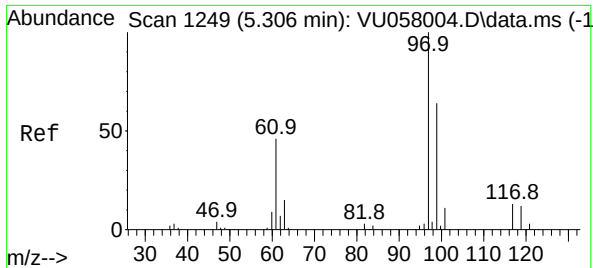


#27
 1,2-Dichloroethane
 Concen: 1.694 ug/L
 RT: 5.785 min Scan# 1398
 Delta R.T. -0.000 min
 Lab File: VU058010.D
 Acq: 08 Mar 2024 12:23

Tgt Ion: 62 Resp: 18438

Ion	Ratio	Lower	Upper
62	100		
98	7.5	7.0	10.4

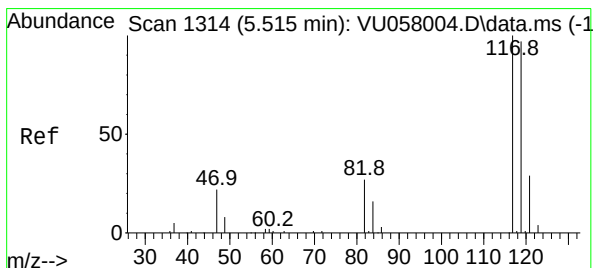
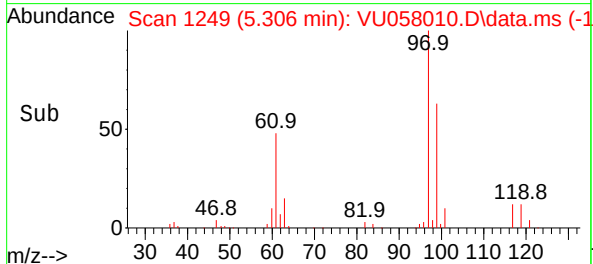
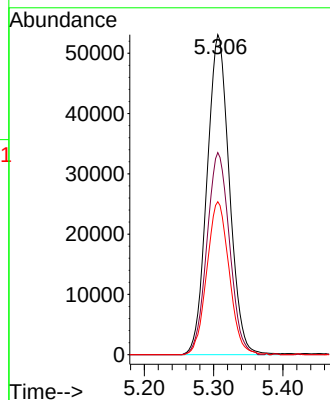
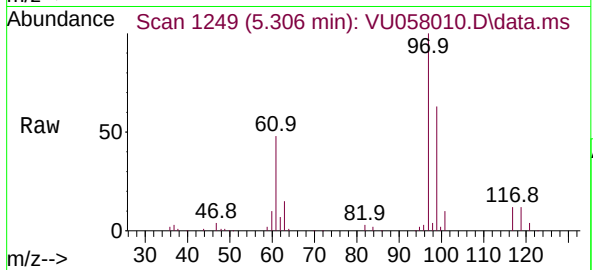




#29
1,1,1-Trichloroethane
Concen: 7.149 ug/L
RT: 5.306 min Scan# 118871
Delta R.T. 0.000 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23

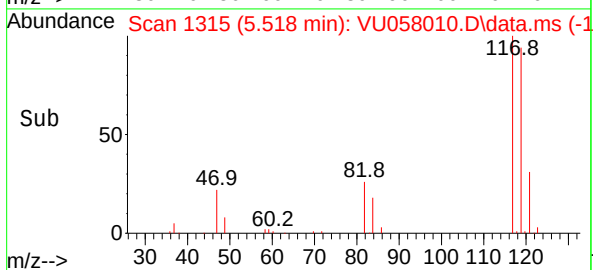
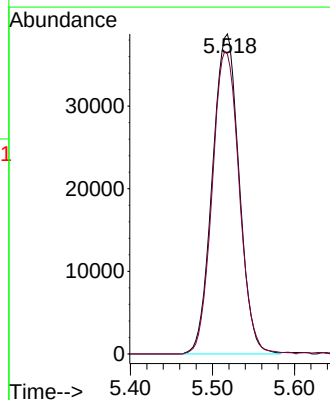
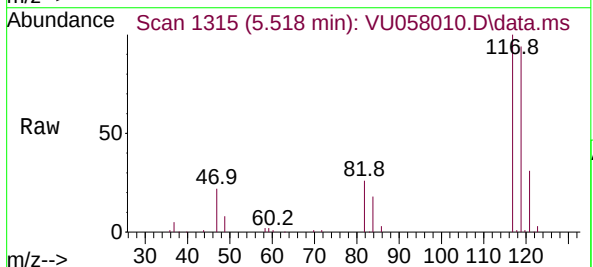
Instrument :
MSVOA_U
ClientSampleId :

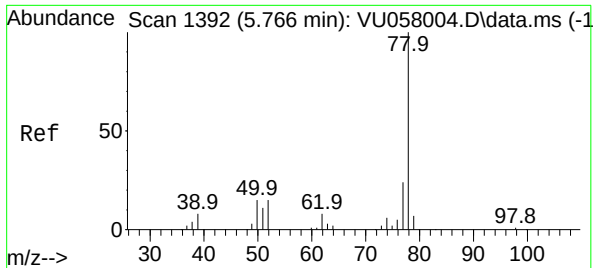
Tgt Ion:	97	Resp:	118871
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.2	76.8
61	47.8	37.4	56.2



#31
Carbon tetrachloride
Concen: 6.072 ug/L
RT: 5.518 min Scan# 1315
Delta R.T. 0.003 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23

Tgt Ion:	117	Resp:	87732
Ion	Ratio	Lower	Upper
117	100		
119	95.5	75.8	113.8





#33

Benzene

Concen: 9.930 ug/L

RT: 5.766 min Scan# 1392

Delta R.T. -0.000 min

Lab File: VU058010.D

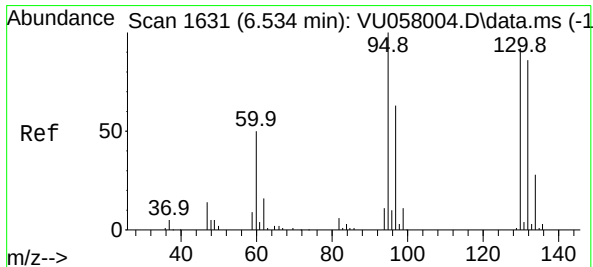
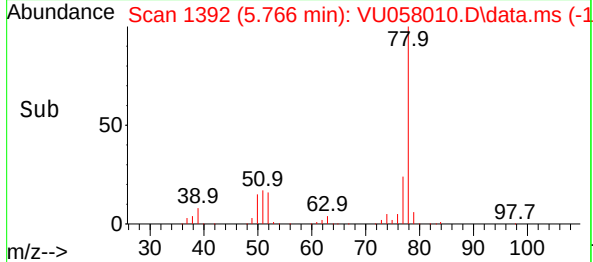
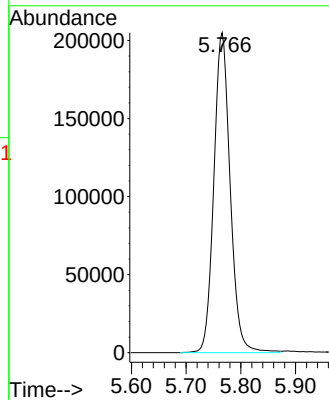
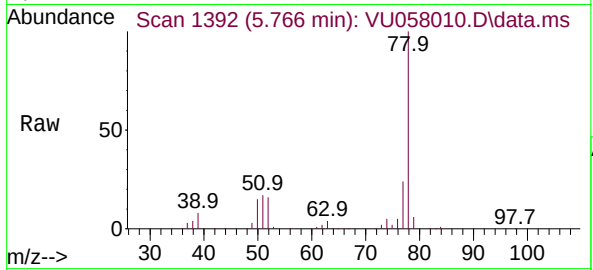
Acq: 08 Mar 2024 12:23

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 425694



#34

Trichloroethene

Concen: 2.743 ug/L

RT: 6.537 min Scan# 1632

Delta R.T. 0.003 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

Tgt Ion: 95 Resp: 30934

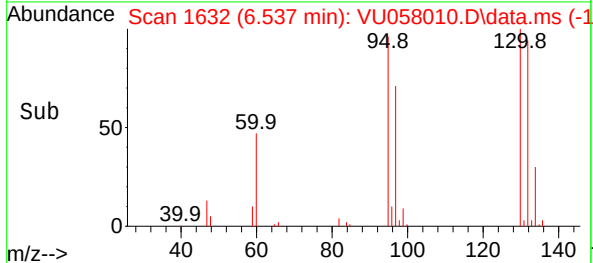
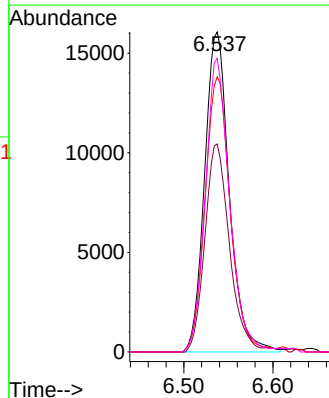
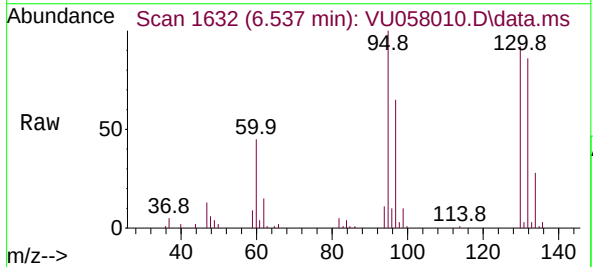
Ion Ratio Lower Upper

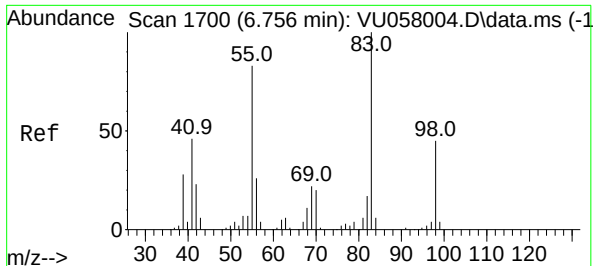
95 100

97 65.0 45.3 84.1

132 86.0 63.1 117.1

130 91.7 67.6 125.6





#35

Methylcyclohexane

Concen: 0.781 ug/L

RT: 6.682 min Scan# 1

Delta R.T. -0.074 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

Instrument :

MSVOA_U

ClientSampleId :

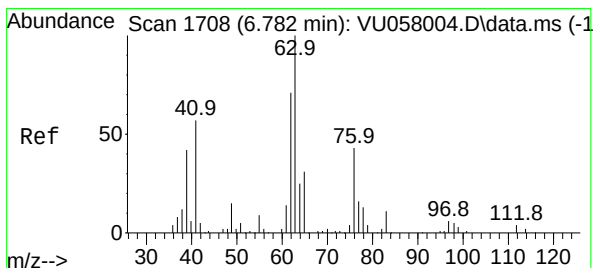
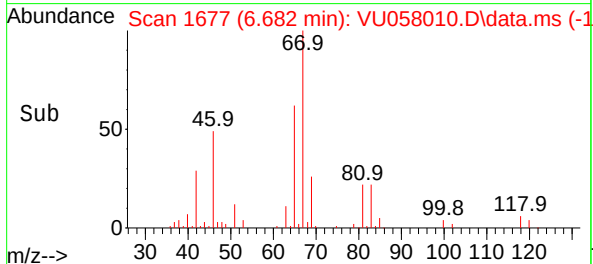
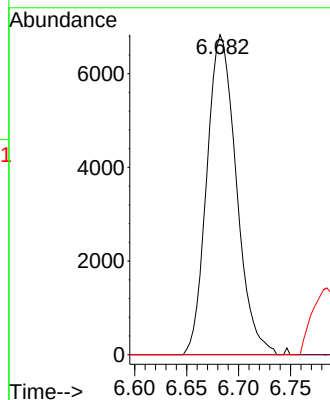
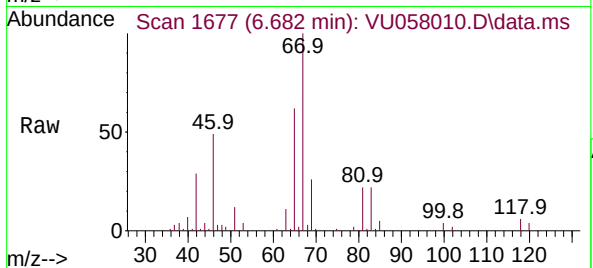
Tgt Ion: 83 Resp: 13498

Ion Ratio Lower Upper

83 100

55 0.0 63.0 94.6#

98 19.2 36.2 54.4#



#37

1,2-Dichloropropane

Concen: 7.913 ug/L

RT: 6.782 min Scan# 1708

Delta R.T. -0.000 min

Lab File: VU058010.D

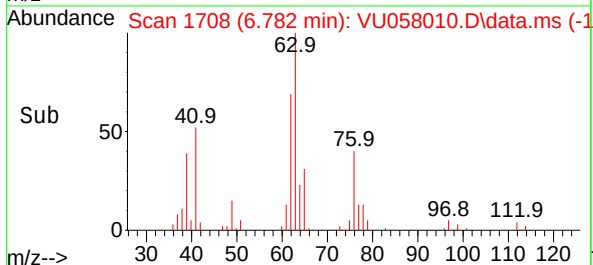
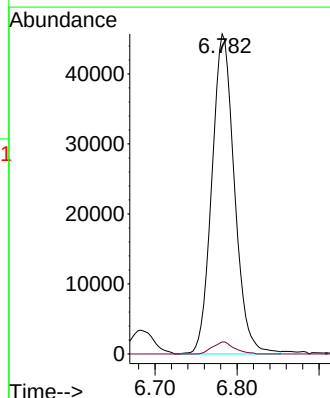
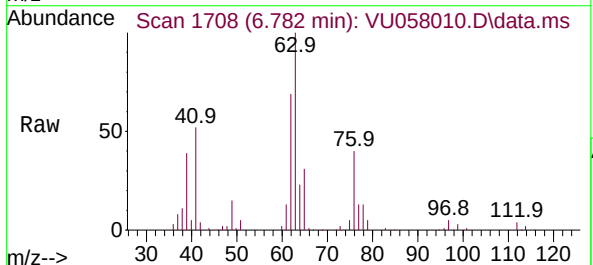
Acq: 08 Mar 2024 12:23

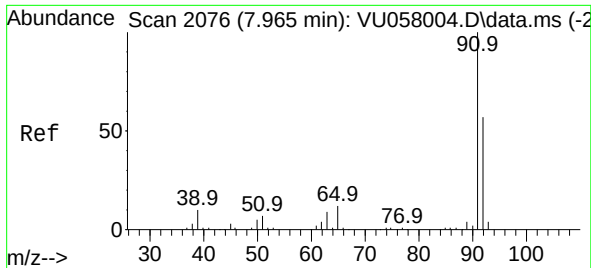
Tgt Ion: 63 Resp: 87468

Ion Ratio Lower Upper

63 100

112 3.6 3.0 4.4





#42

Toluene

Concen: 10.508 ug/L

RT: 7.962 min Scan# 2076

Delta R.T. -0.003 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

Instrument :

MSVOA_U

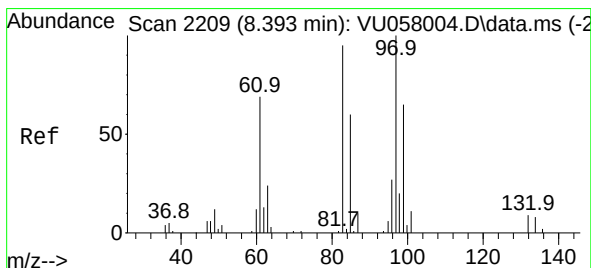
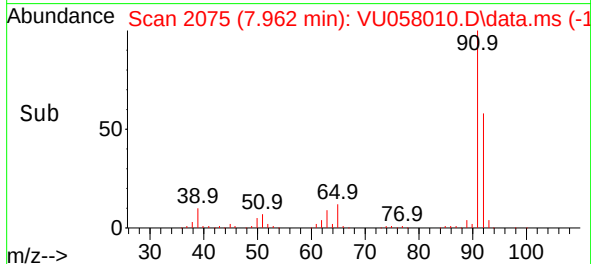
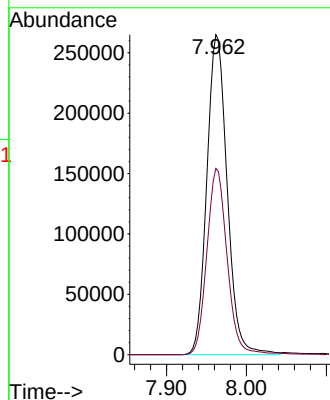
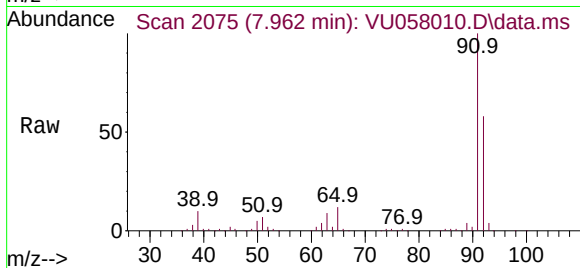
ClientSampleId :

Tgt Ion: 91 Resp: 469083

Ion Ratio Lower Upper

91 100

92 58.2 40.2 74.6



#45

1,1,2-Trichloroethane

Concen: 2.219 ug/L

RT: 8.393 min Scan# 2209

Delta R.T. -0.000 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

Tgt Ion: 97 Resp: 14545

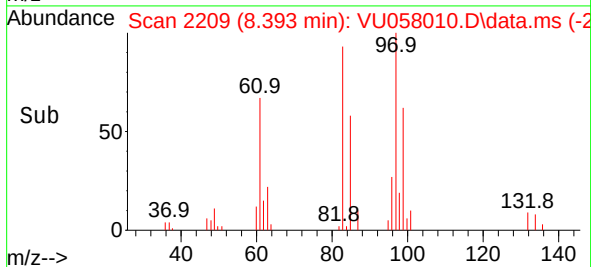
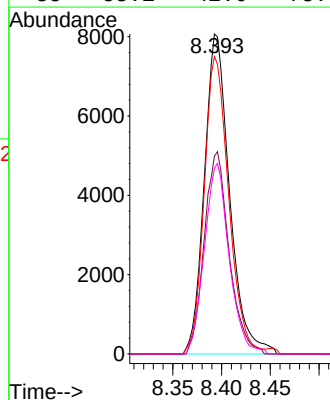
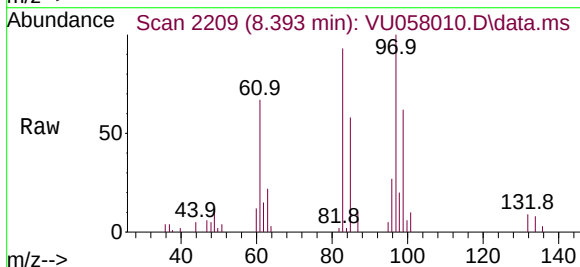
Ion Ratio Lower Upper

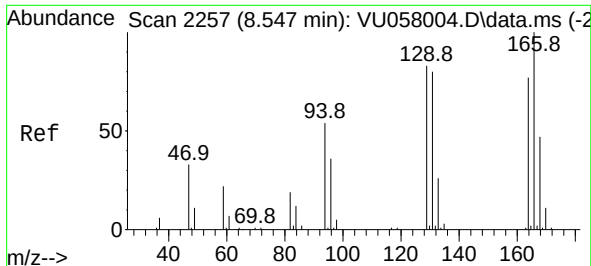
97 100

99 61.8 44.2 82.2

83 93.0 64.2 119.2

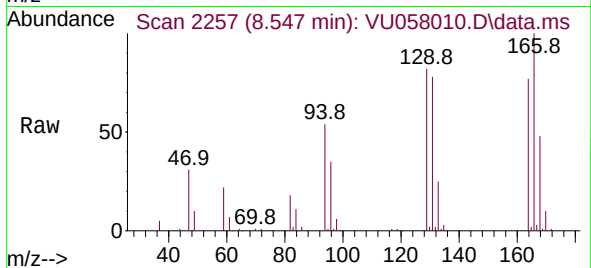
85 58.1 42.0 78.0





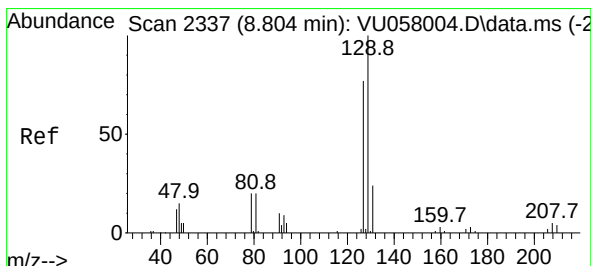
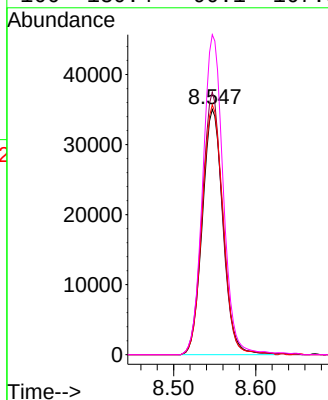
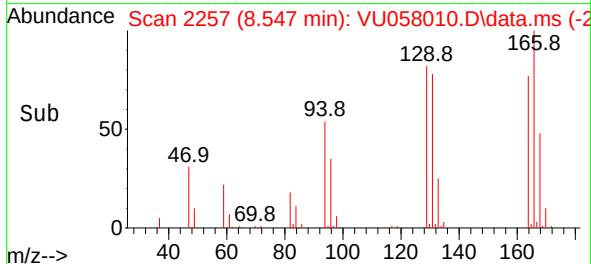
#47
Tetrachloroethene
Concen: 7.846 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.000 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:164 Resp: 61397

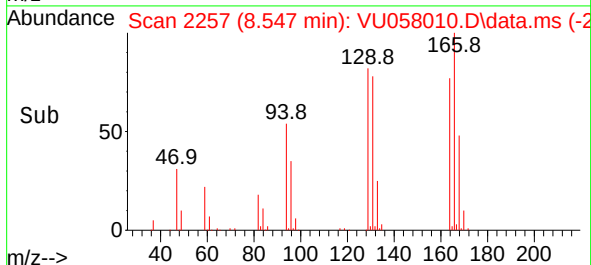
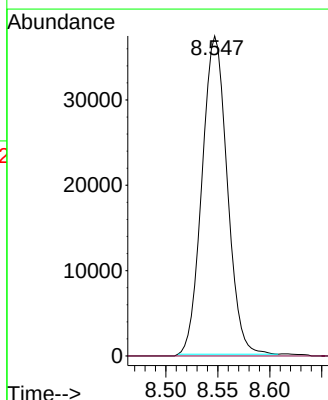
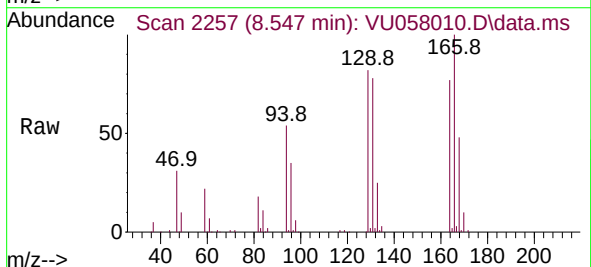
Ion	Ratio	Lower	Upper
164	100		
129	107.0	69.3	128.7
131	101.8	69.9	129.9
166	130.4	90.1	167.3

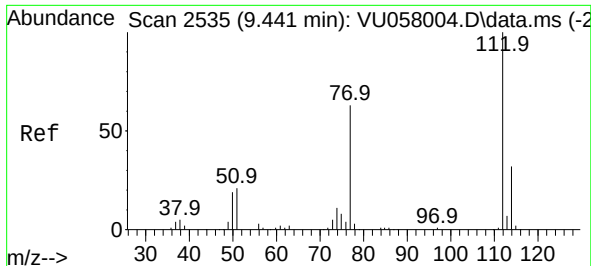


#49
Dibromochloromethane
Concen: 8.091 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.257 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23

Tgt Ion:129 Resp: 62770

Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.2	102.6#





#51

Chlorobenzene

Concen: 6.594 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

Instrument :

MSVOA_U

ClientSampleId :

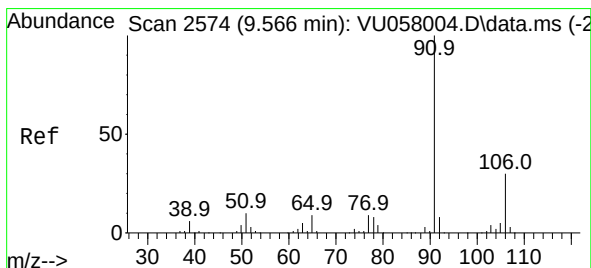
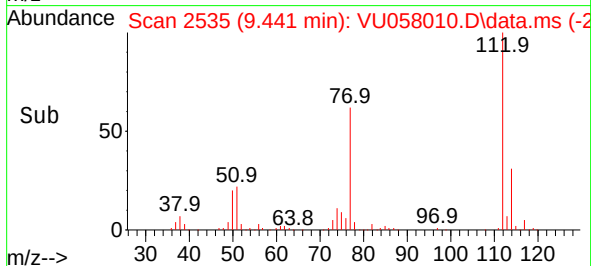
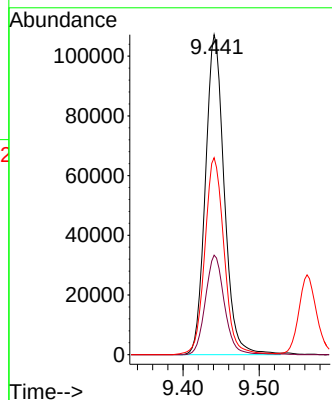
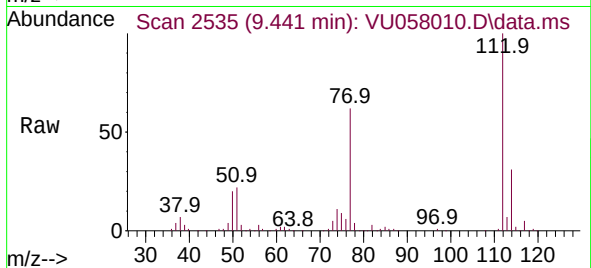
Tgt Ion:112 Resp: 184607

Ion Ratio Lower Upper

112 100

114 31.1 22.7 42.1

77 61.6 52.3 78.5



#52

Ethylbenzene

Concen: 9.345 ug/L

RT: 9.563 min Scan# 2573

Delta R.T. -0.003 min

Lab File: VU058010.D

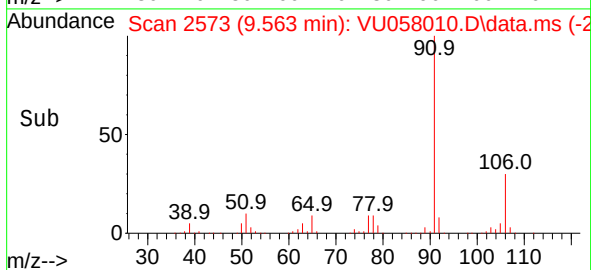
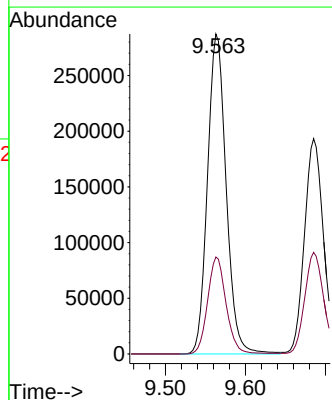
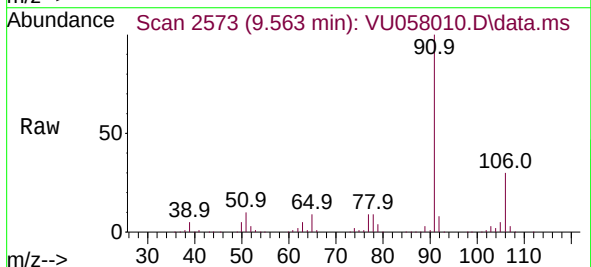
Acq: 08 Mar 2024 12:23

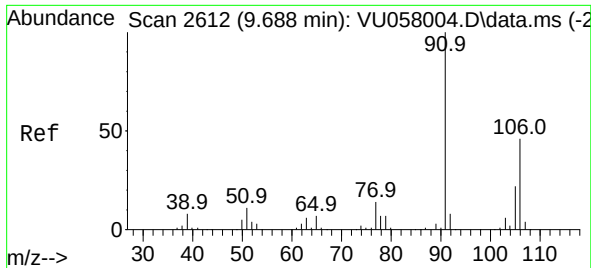
Tgt Ion: 91 Resp: 466866

Ion Ratio Lower Upper

91 100

106 30.3 20.9 38.7





#53

m,p-Xylene

Concen: 8.533 ug/L

RT: 9.685 min Scan# 2

Delta R.T. -0.003 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

Instrument :

MSVOA_U

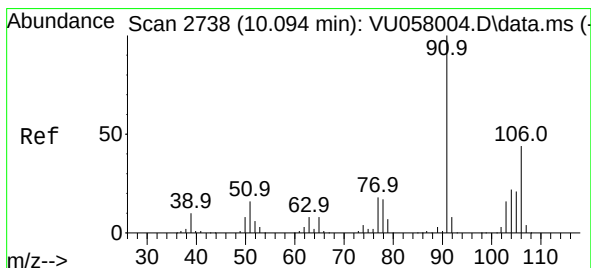
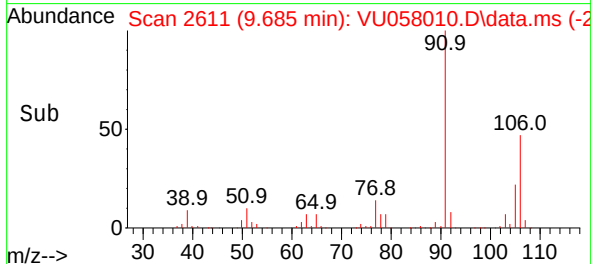
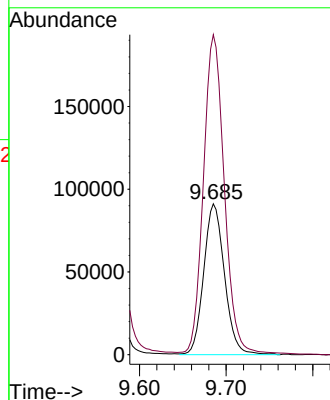
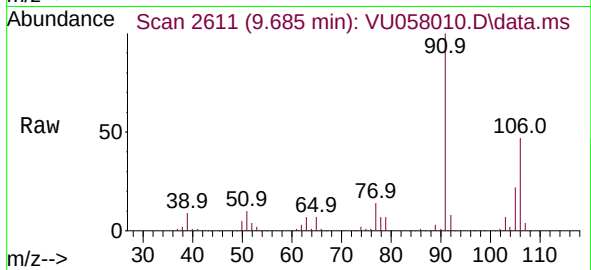
ClientSampleId :

Tgt Ion:106 Resp: 152297

Ion Ratio Lower Upper

106 100

91 212.0 148.8 276.4



#54

o-Xylene

Concen: 3.301 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. -0.000 min

Lab File: VU058010.D

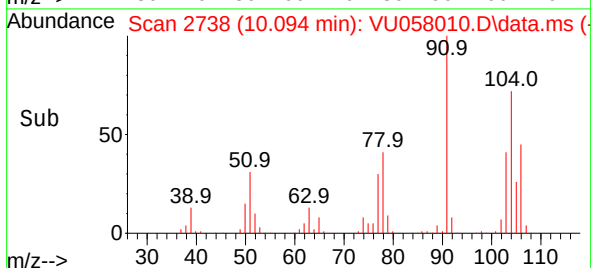
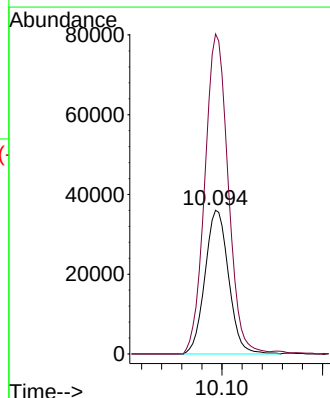
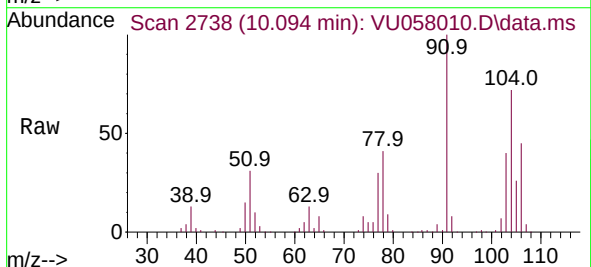
Acq: 08 Mar 2024 12:23

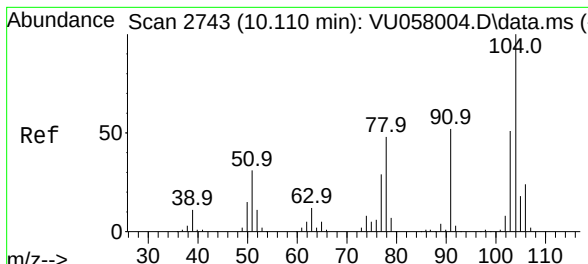
Tgt Ion:106 Resp: 58721

Ion Ratio Lower Upper

106 100

91 222.7 158.3 294.1

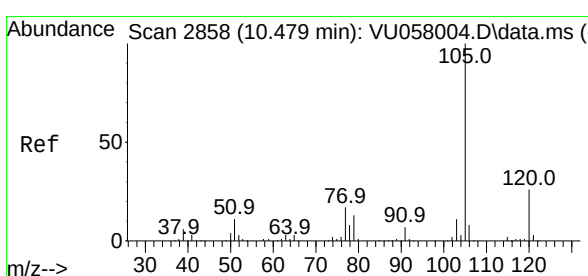
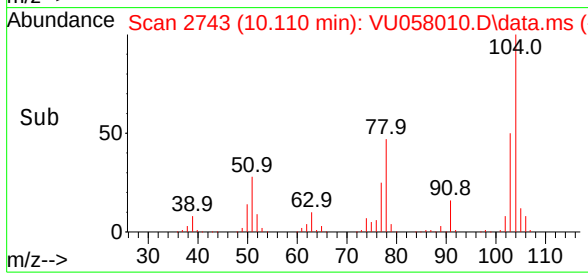
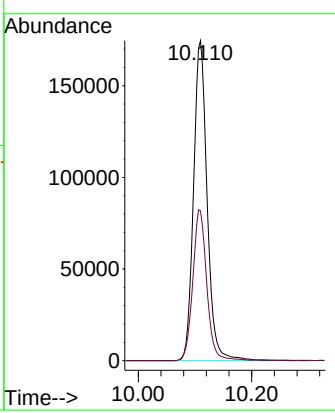
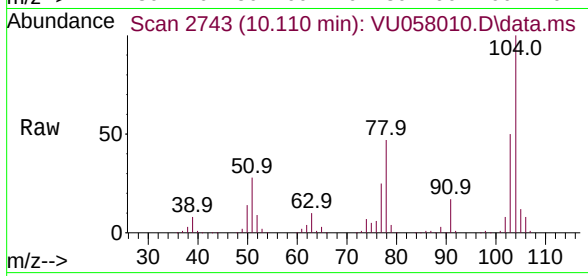




#55
 Styrene
 Concen: 10.430 ug/L
 RT: 10.110 min Scan# 2741
 Delta R.T. 0.000 min
 Lab File: VU058010.D
 Acq: 08 Mar 2024 12:23

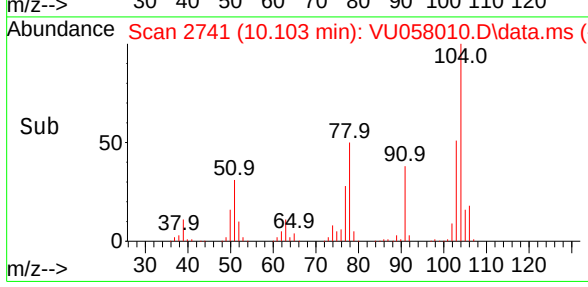
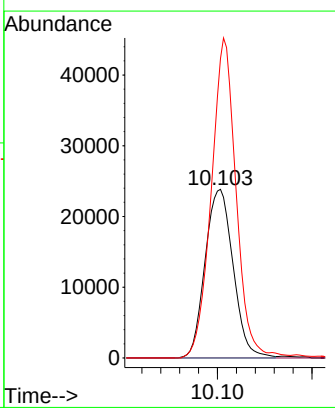
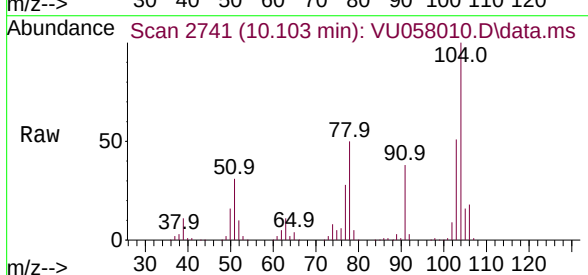
Instrument :
 MSVOA_U
 ClientSampleId :

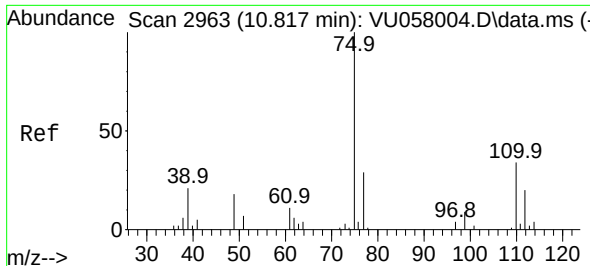
Tgt Ion:	104	Resp:	291229
Ion Ratio	Lower	Upper	
104	100		
78	46.9	34.2	63.4



#60
 Isopropylbenzene
 Concen: 1.116 ug/L
 RT: 10.103 min Scan# 2741
 Delta R.T. -0.376 min
 Lab File: VU058010.D
 Acq: 08 Mar 2024 12:23

Tgt Ion:	105	Resp:	49096
Ion Ratio	Lower	Upper	
105	100		
120	0.0	20.4	30.6#
77	168.0	13.2	19.8#

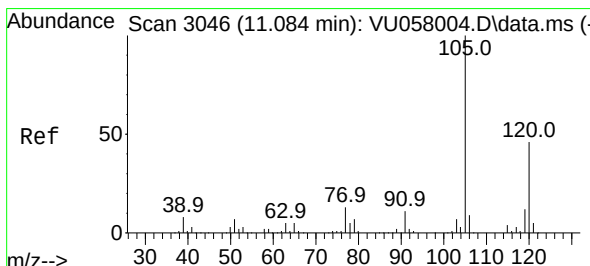
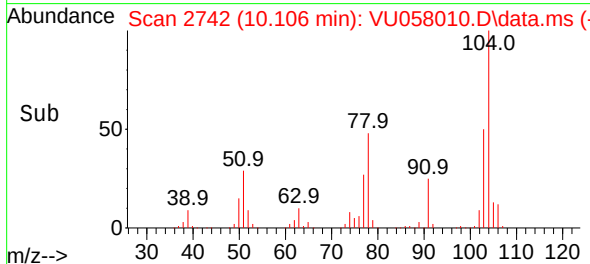
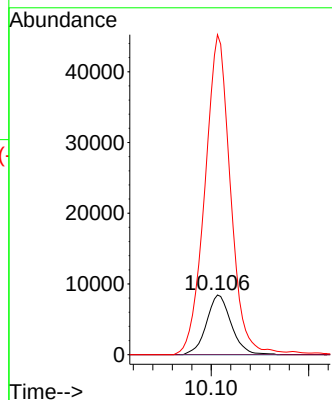
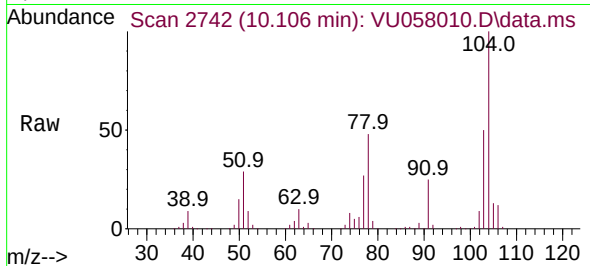




#61
1,2,3-Trichloropropane
Concen: 2.745 ug/L
RT: 10.106 min Scan# 21
Delta R.T. -0.711 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23

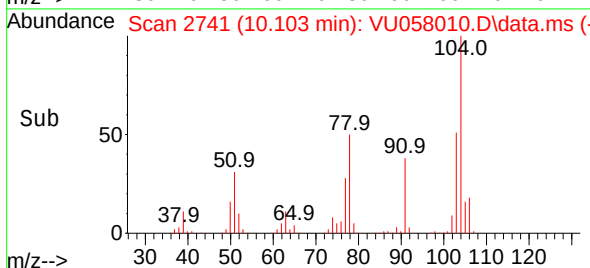
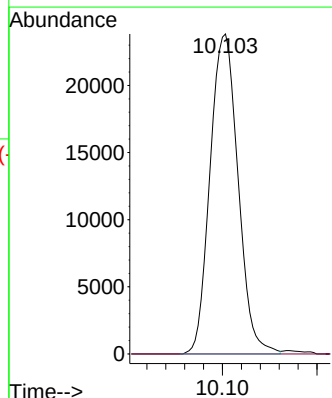
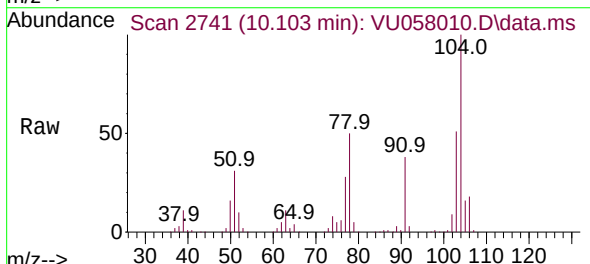
Instrument :
MSVOA_U
ClientSampleId :

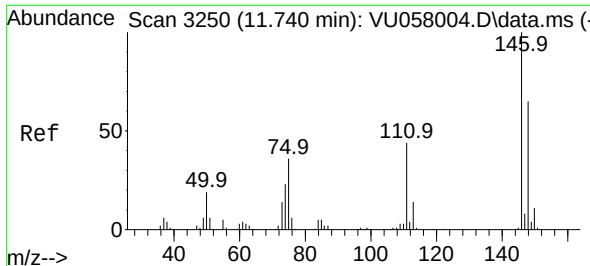
Tgt Ion: 75 Resp: 14854
Ion Ratio Lower Upper
75 100
110 0.0 28.0 42.0#
77 555.2 24.7 37.1#



#62
1,3,5-Trimethylbenzene
Concen: 1.323 ug/L
RT: 10.103 min Scan# 2741
Delta R.T. -0.981 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23

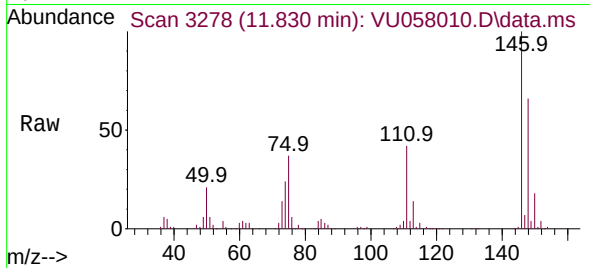
Tgt Ion:105 Resp: 49096
Ion Ratio Lower Upper
105 100
120 0.0 37.1 55.7#



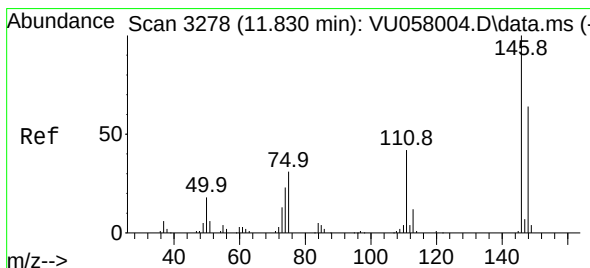
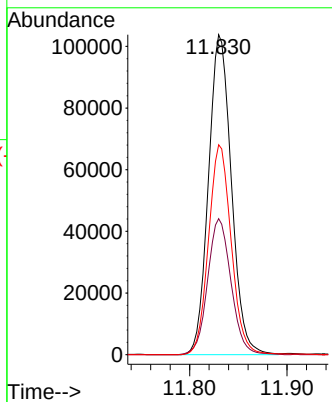
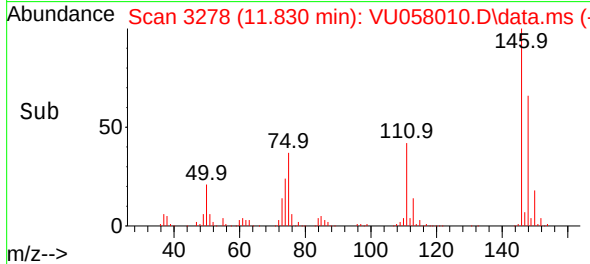


#64
1,3-Dichlorobenzene
Concen: 8.474 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. 0.090 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23

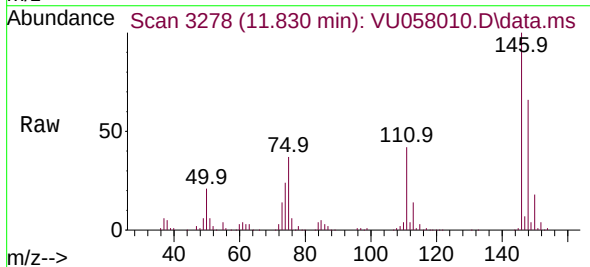
Instrument :
MSVOA_U
ClientSampleId :



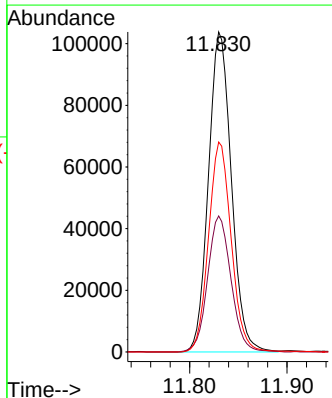
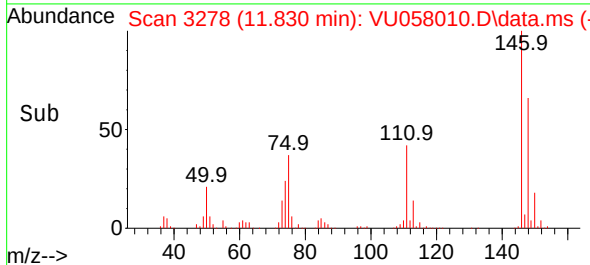
Tgt Ion:146 Resp: 169449
Ion Ratio Lower Upper
146 100
111 42.5 30.9 57.5
148 65.6 45.4 84.4

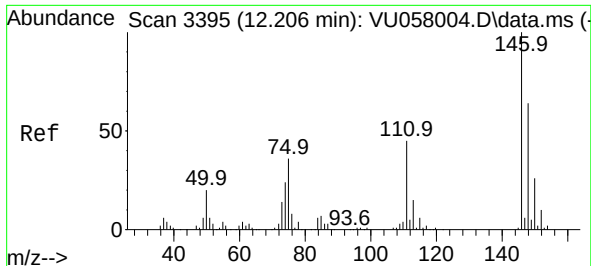


#65
1,4-Dichlorobenzene
Concen: 8.657 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. -0.000 min
Lab File: VU058010.D
Acq: 08 Mar 2024 12:23



Tgt Ion:146 Resp: 169449
Ion Ratio Lower Upper
146 100
111 42.5 30.1 55.9
148 65.6 45.0 83.6





#67

1,2-Dichlorobenzene

Concen: 9.163 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. -0.000 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

Instrument :

MSVOA_U

ClientSampleId :

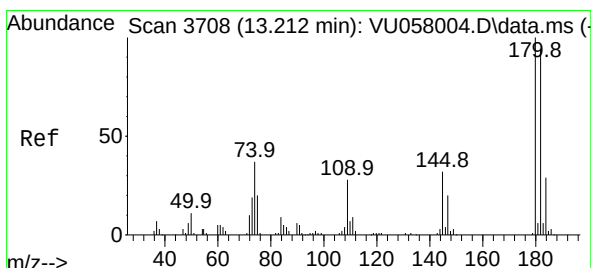
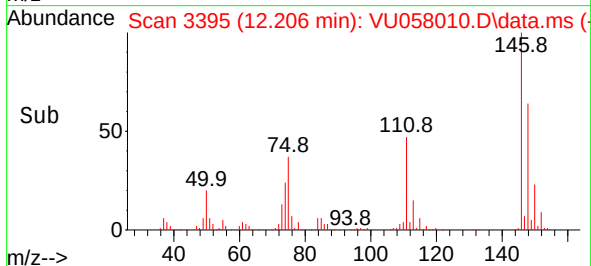
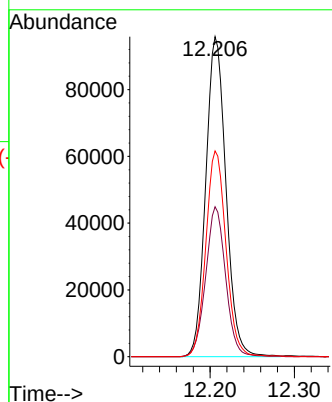
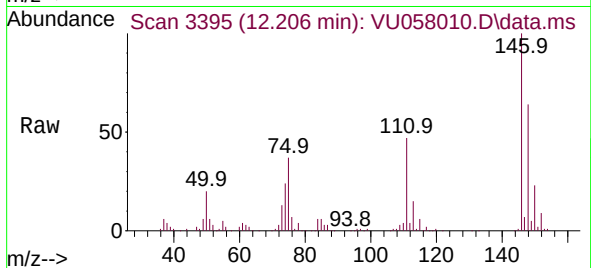
Tgt Ion:146 Resp: 159977

Ion Ratio Lower Upper

146 100

111 46.8 37.4 56.0

148 64.3 50.8 76.2



#69

1,3,5-Trichlorobenzene

Concen: 2.891 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.624 min

Lab File: VU058010.D

Acq: 08 Mar 2024 12:23

Tgt Ion:180 Resp: 41589

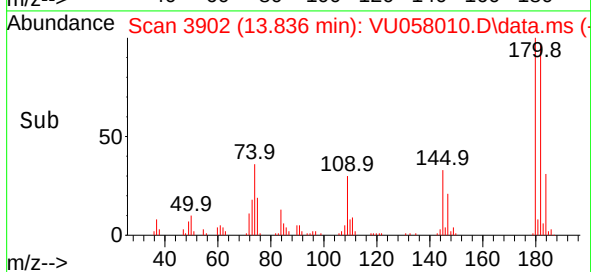
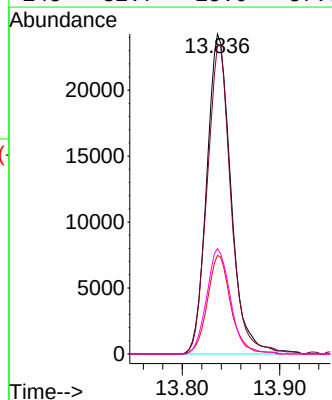
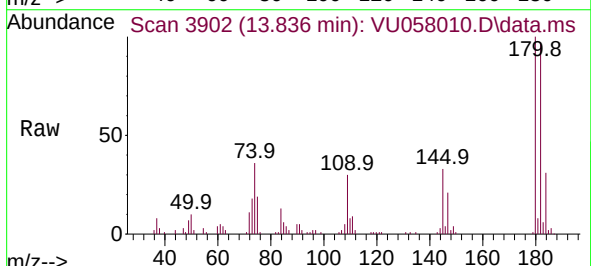
Ion Ratio Lower Upper

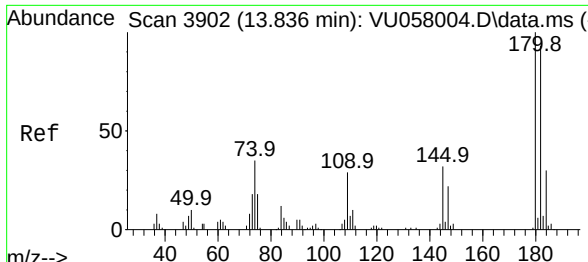
180 100

182 95.8 76.3 114.5

184 30.0 24.6 36.8

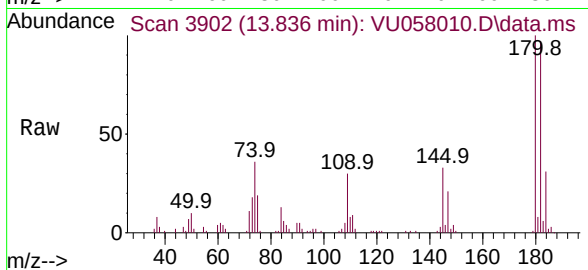
145 32.7 25.0 37.6





#70
 1,2,4-trichlorobenzene
 Concen: 3.846 ug/L
 RT: 13.836 min Scan# 3902
 Delta R.T. -0.000 min
 Lab File: VU058010.D
 Acq: 08 Mar 2024 12:23

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	41568
Ion Ratio	Lower	Upper	
180	100		
182	95.9	77.9	116.9
145	32.7	25.8	38.8

