

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111825\
 Data File : VU063735.D
 Acq On : 18 Nov 2025 11:46
 Operator : MD/SY
 Sample : Q3589-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT4-2025-08

Quant Time: Nov 19 04:53:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM111725WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 19 04:47:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.222	114	328286	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.393	117	310025	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.788	152	158022	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.586	65	127715	45.051	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	90.100%		
7) Chloroethane-d5	1.895	69	100051	45.810	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.620%		
11) 1,1-Dichloroethene-d2	2.541	63	180903	36.815	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	73.620%		
21) 2-Butanone-d5	4.595	46	136870	84.689	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	84.690%		
24) Chloroform-d	5.030	84	217588	45.746	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.500%		
26) 1,2-Dichloroethane-d4	5.669	65	144176	46.097	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	92.200%		
32) Benzene-d6	5.695	84	442868	48.734	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.460%		
36) 1,2-Dichloropropane-d6	6.660	67	126291	47.339	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	94.680%		
41) Toluene-d8	7.872	98	406538	47.117	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	94.240%		
43) trans-1,3-Dichloroprop...	8.155	79	49134	44.568	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	89.140%		
47) 2-Hexanone-d5	8.615	63	87328	90.033	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	90.030%		
56) 1,1,2,2-Tetrachloroeth...	10.730	84	181404	46.498	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	93.000%		
66) 1,2-Dichlorobenzene-d4	12.168	152	145897	48.909	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	97.820%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.374	85	4584	2.399	ug/L	98
3) Chloromethane	1.509	50	5517	2.552	ug/L	98
5) Vinyl chloride	1.589	62	6618	2.633	ug/L #	72
6) Bromomethane	1.840	94	4184	2.627	ug/L	98
8) Chloroethane	1.914	64	4091	2.438	ug/L	91
9) Trichlorofluoromethane	2.120	101	9659	2.436	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.551	101	7289	3.111	ug/L #	78
12) 1,1-Dichloroethene	2.554	96	6716	3.134	ug/L #	1
13) Acetone	2.608	43	9586	4.383	ug/L	89
14) Carbon disulfide	2.769	76	12885	2.308	ug/L	99
15) Methyl Acetate	2.936	43	5423	2.065	ug/L #	80
16) Methylene chloride	3.020	84	6982	2.795	ug/L	94
17) trans-1,2-Dichloroethene	3.329	96	5188	2.271	ug/L	92
18) Methyl tert-butyl Ether	3.342	73	18657	2.413	ug/L #	67
19) 1,1-Dichloroethane	3.840	63	10451	2.374	ug/L #	93
20) cis-1,2-Dichloroethene	4.637	96	6129	2.331	ug/L	98
22) 2-Butanone	4.769	43	339	0.140	ug/L	97
23) Bromochloromethane	4.952	128	3007	2.224	ug/L	95
25) Chloroform	5.058	83	12800	2.686	ug/L	98

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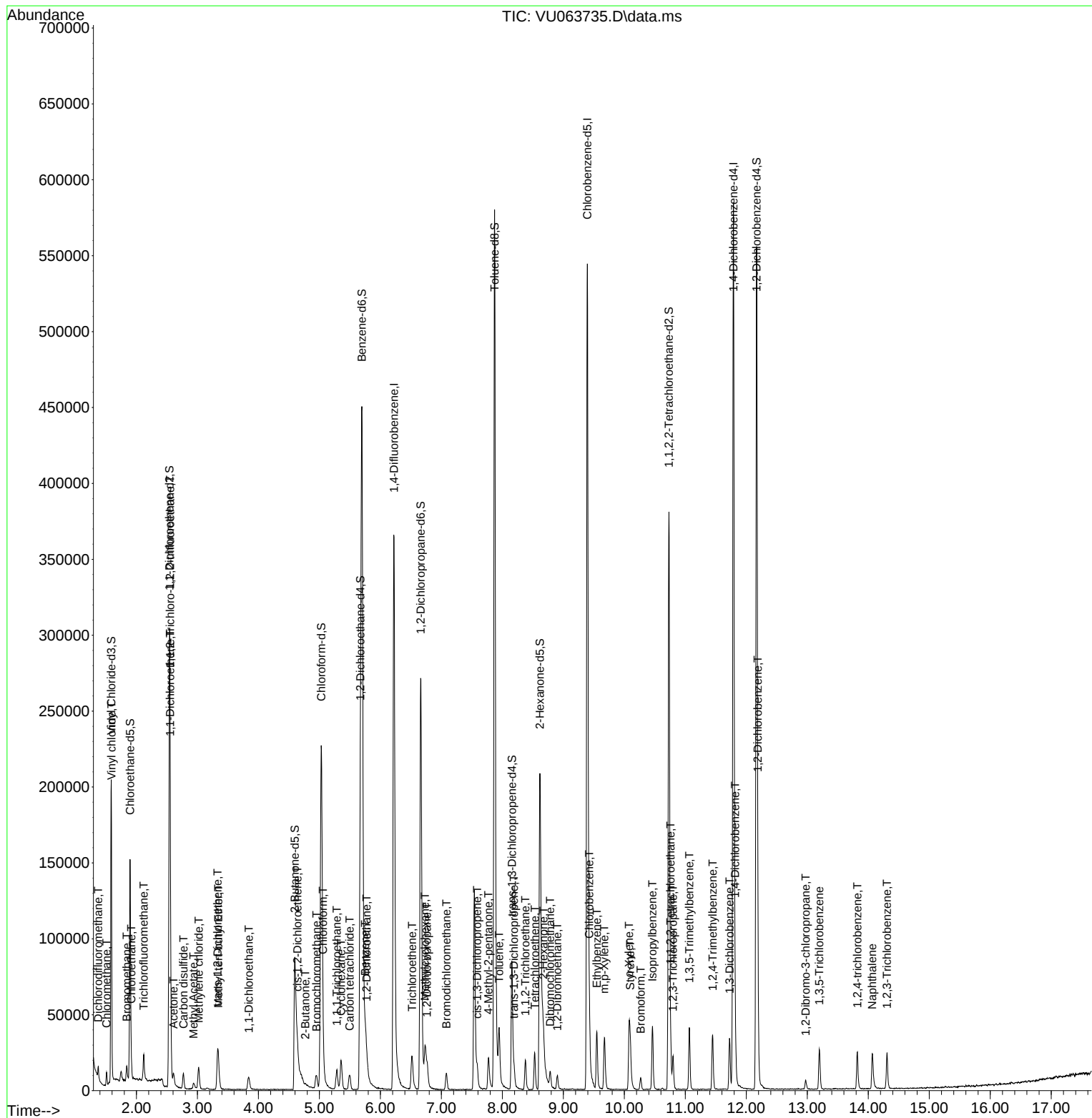
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.772	62	7977	2.051	ug/L	99
29) Cyclohexane	5.354	56	9566	2.452	ug/L #	88
30) 1,1,1-Trichloroethane	5.284	97	9324	2.355	ug/L #	78
31) Carbon tetrachloride	5.496	117	6860	2.204	ug/L	99
33) Benzene	5.750	78	23813	2.518	ug/L	100
34) Trichloroethene	6.518	95	6775	2.485	ug/L	92
35) Methylcyclohexane	6.730	83	10368	2.591	ug/L	93
37) 1,2-Dichloropropane	6.763	63	6487	2.640	ug/L #	88
38) Bromodichloromethane	7.081	83	7778	2.311	ug/L	98
39) cis-1,3-Dichloropropene	7.586	75	8331	2.286	ug/L	99
40) 4-Methyl-2-pentanone	7.769	43	16646	4.680	ug/L	94
42) Toluene	7.946	91	27005	2.587	ug/L	97
44) trans-1,3-Dichloropropene	8.190	75	7476	2.350	ug/L	94
45) 1,1,2-Trichloroethane	8.377	97	6275	2.415	ug/L	96
46) Tetrachloroethene	8.531	164	5371	2.576	ug/L	97
48) 2-Hexanone	8.672	43	24411	8.744	ug/L #	81
49) Dibromochloromethane	8.782	129	4892	1.949	ug/L	98
50) 1,2-Dibromoethane	8.901	107	6820	2.500	ug/L	95
51) Chlorobenzene	9.425	112	18159	2.578	ug/L	97
52) Ethylbenzene	9.550	91	28385	2.342	ug/L	93
53) m,p-Xylene	9.672	106	10904	2.360	ug/L	97
54) o-Xylene	10.078	106	10183	2.263	ug/L	99
55) Styrene	10.097	104	16075	2.205	ug/L	83
57) 1,1,2,2-Tetrachloroethane	10.756	83	11456	2.707	ug/L	92
59) Bromoform	10.267	173	3559	1.983	ug/L #	75
60) 1,2,3-Trichloropropane	10.798	75	8951	2.595	ug/L	98
61) Isopropylbenzene	10.460	105	29083	2.440	ug/L	97
62) 1,3,5-Trimethylbenzene	11.065	105	22506	2.295	ug/L	97
63) 1,2,4-Trimethylbenzene	11.447	105	21240	2.269	ug/L	98
64) 1,3-Dichlorobenzene	11.724	146	14293	2.674	ug/L	95
65) 1,4-Dichlorobenzene	11.814	146	14952	2.731	ug/L	92
67) 1,2-Dichlorobenzene	12.187	146	13566	2.618	ug/L #	89
68) 1,2-Dibromo-3-chloropr...	12.971	75	1625	1.908	ug/L #	73
69) 1,3,5-Trichlorobenzene	13.196	180	8831	2.445	ug/L	95
70) 1,2,4-trichlorobenzene	13.820	180	8269	2.745	ug/L	93
71) Naphthalene	14.065	128	22066	2.753	ug/L	99
72) 1,2,3-Trichlorobenzene	14.306	180	6990	2.449	ug/L #	92

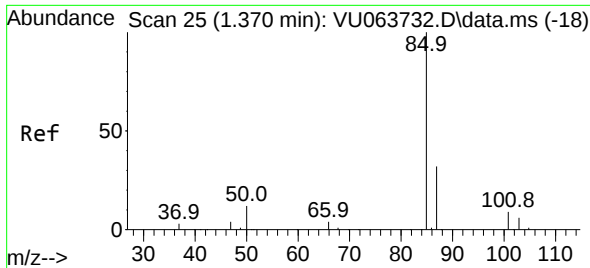
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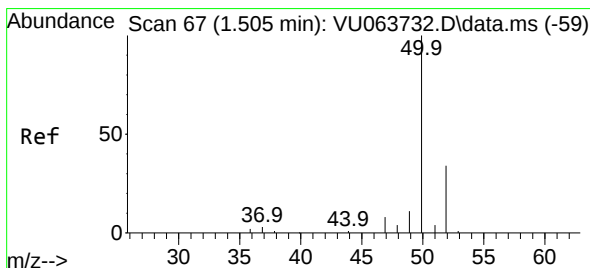
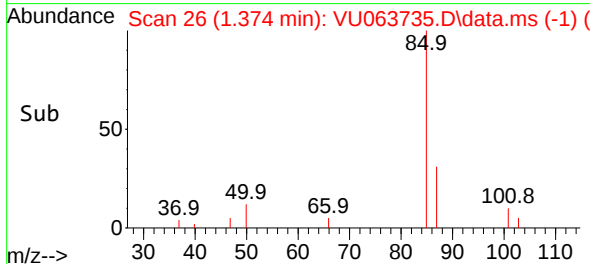
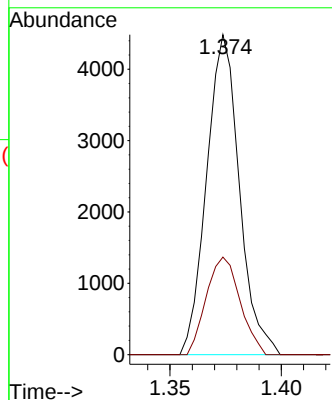
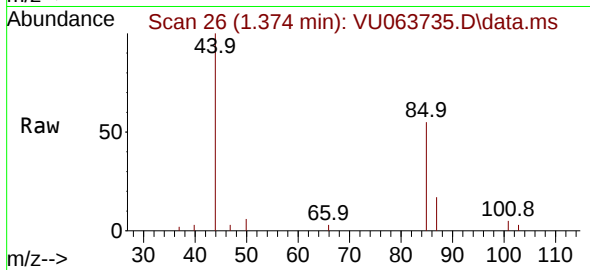




#2
 Dichlorodifluoromethane
 Concen: 2.399 ug/L
 RT: 1.374 min Scan# 2
 Delta R.T. 0.003 min
 Lab File: VU063735.D
 Acq: 18 Nov 2025 11:46

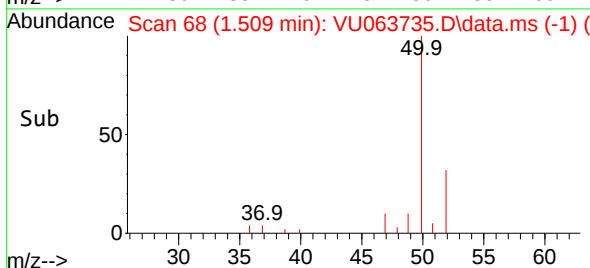
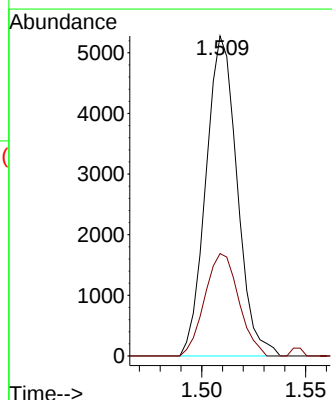
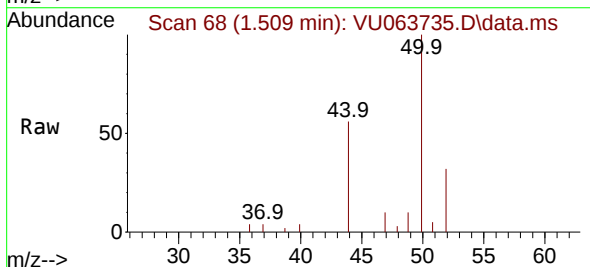
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT4-2025-08

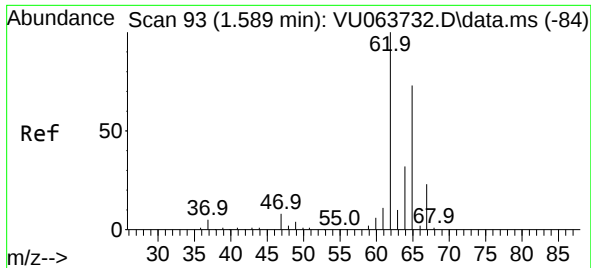
Tgt Ion: 85 Resp: 4584
 Ion Ratio Lower Upper
 85 100
 87 31.4 26.2 39.2



#3
 Chloromethane
 Concen: 2.552 ug/L
 RT: 1.509 min Scan# 68
 Delta R.T. 0.003 min
 Lab File: VU063735.D
 Acq: 18 Nov 2025 11:46

Tgt Ion: 50 Resp: 5517
 Ion Ratio Lower Upper
 50 100
 52 32.0 23.2 43.2

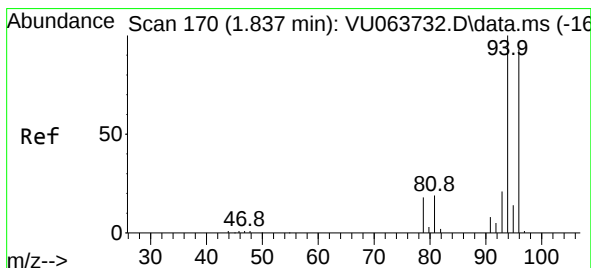
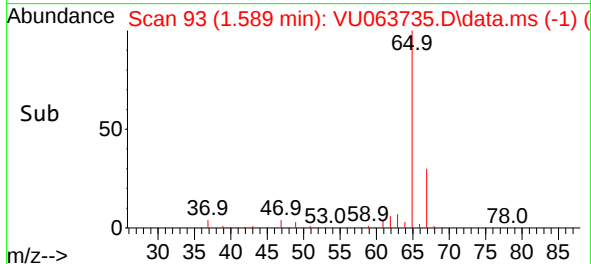
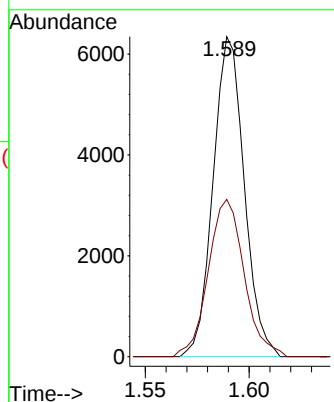
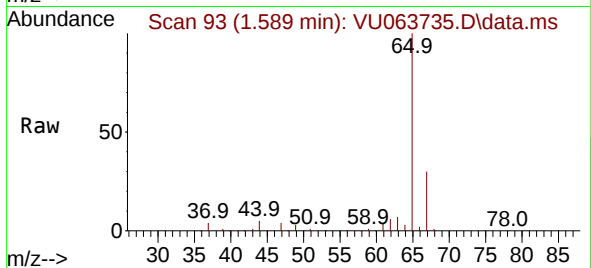




#5
 Vinyl chloride
 Concen: 2.633 ug/L
 RT: 1.589 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VU063735.D
 Acq: 18 Nov 2025 11:46

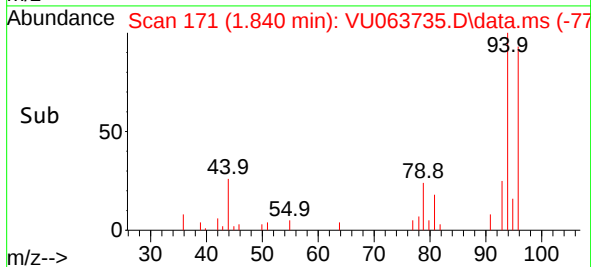
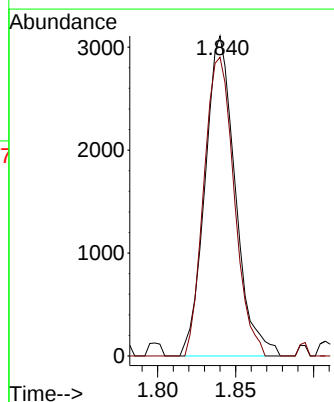
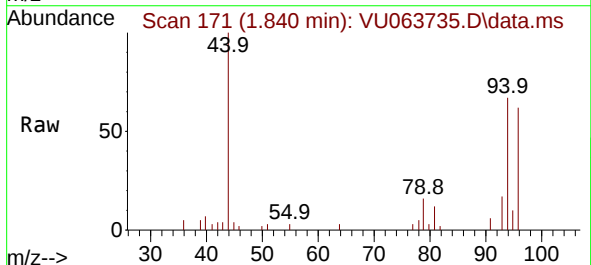
Instrument :
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 ClientSampleId :
 MDL-WATER-QT4-2025-08

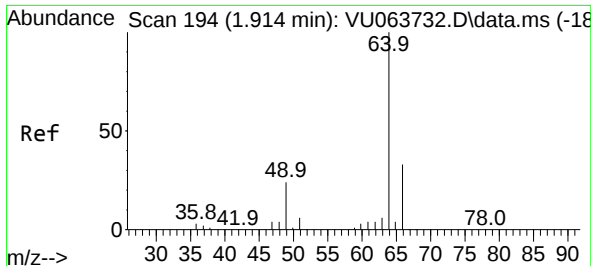
Tgt Ion: 62 Resp: 6618
 Ion Ratio Lower Upper
 62 100
 64 49.2 23.2 43.2#



#6
 Bromomethane
 Concen: 2.627 ug/L
 RT: 1.840 min Scan# 171
 Delta R.T. 0.003 min
 Lab File: VU063735.D
 Acq: 18 Nov 2025 11:46

Tgt Ion: 94 Resp: 4184
 Ion Ratio Lower Upper
 94 100
 96 93.4 63.8 118.4

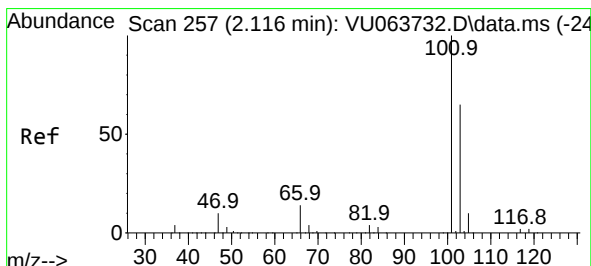
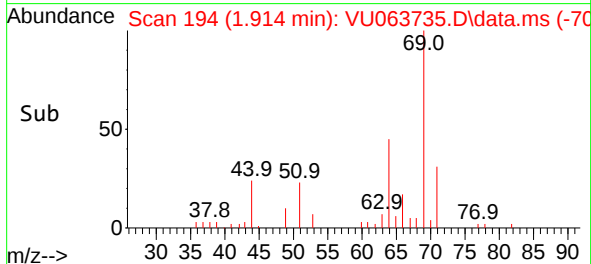
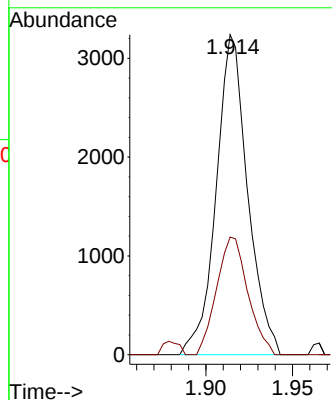
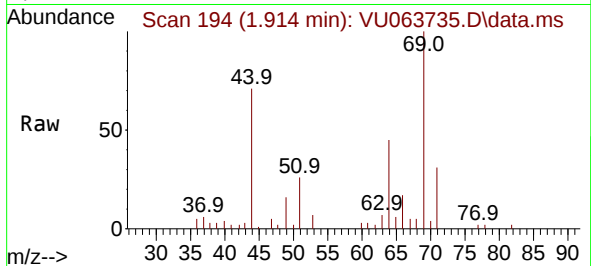




#8
Chloroethane
Concen: 2.438 ug/L
RT: 1.914 min Scan# 194
Delta R.T. 0.000 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

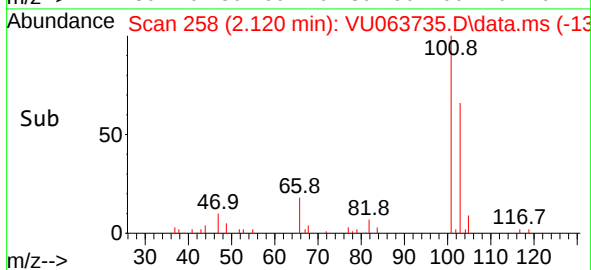
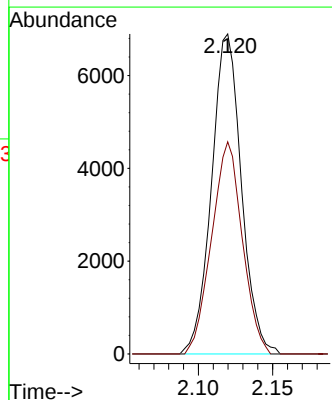
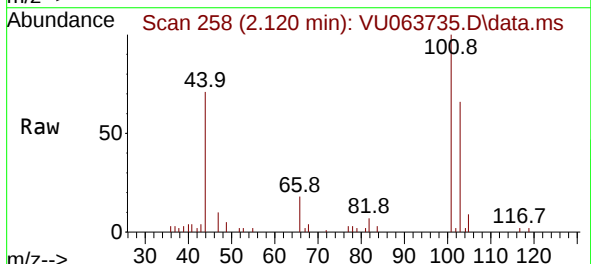
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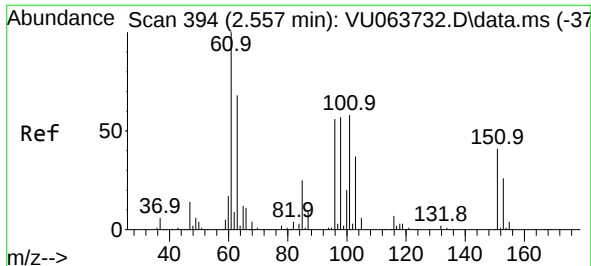
Tgt Ion: 64 Resp: 4091
Ion Ratio Lower Upper
64 100
66 36.8 22.4 41.6



#9
Trichlorofluoromethane
Concen: 2.436 ug/L
RT: 2.120 min Scan# 258
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion:101 Resp: 9659
Ion Ratio Lower Upper
101 100
103 68.0 52.0 78.0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.111 ug/L

RT: 2.551 min Scan# 394

Delta R.T. -0.006 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2025-08

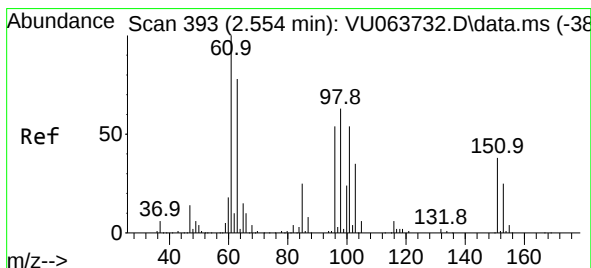
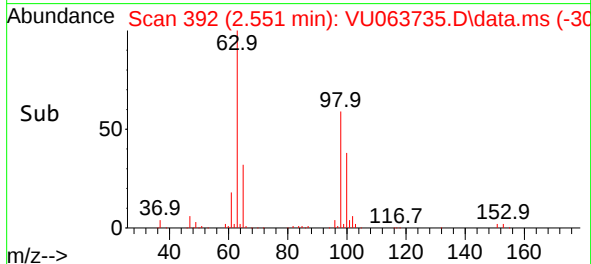
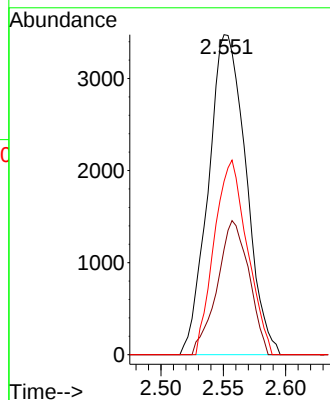
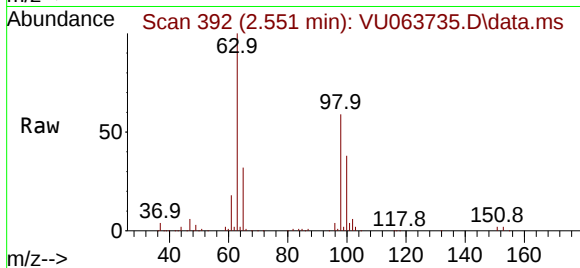
Tgt Ion:101 Resp: 7289

Ion Ratio Lower Upper

101 100

85 35.4 36.3 54.5#

151 53.5 60.1 90.1#



#12

1,1-Dichloroethene

Concen: 3.134 ug/L

RT: 2.554 min Scan# 393

Delta R.T. 0.000 min

Lab File: VU063735.D

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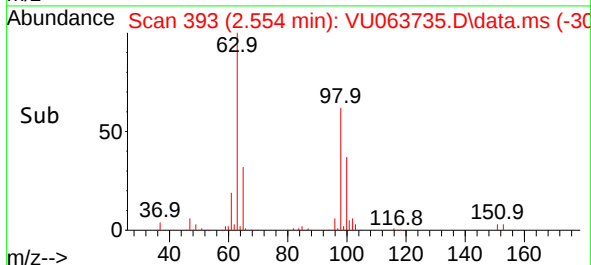
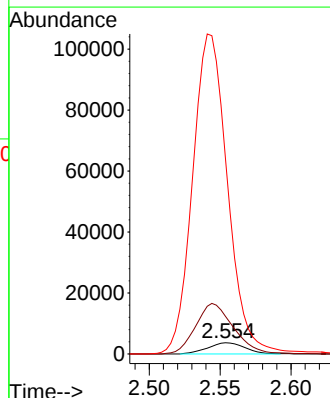
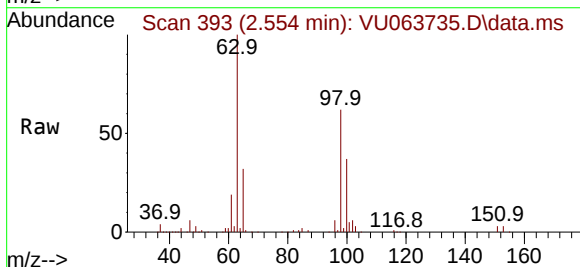
Tgt Ion: 96 Resp: 6716

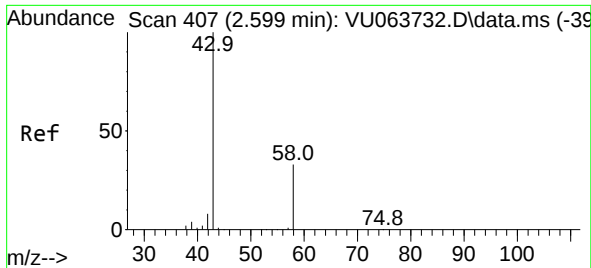
Ion Ratio Lower Upper

96 100

61 337.4 123.3 228.9#

63 1747.2 103.3 191.8#





#13

Acetone

Concen: 4.383 ug/L

RT: 2.608 min Scan# 410

Delta R.T. 0.010 min

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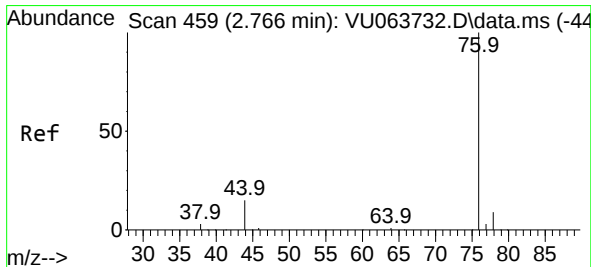
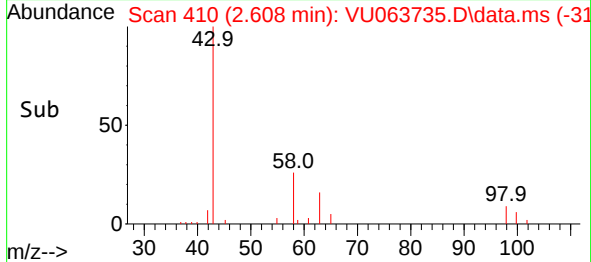
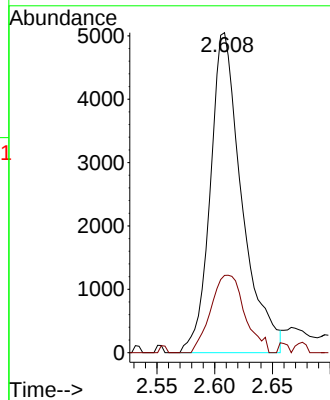
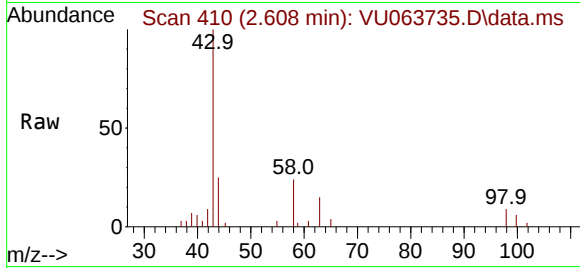
MDL-WATER-QT4-2025-08

Tgt Ion: 43 Resp: 9586

Ion Ratio Lower Upper

43 100

58 25.5 0.0 63.4



#14

Carbon disulfide

Concen: 2.308 ug/L

RT: 2.769 min Scan# 460

Delta R.T. 0.003 min

Lab File: VU063735.D

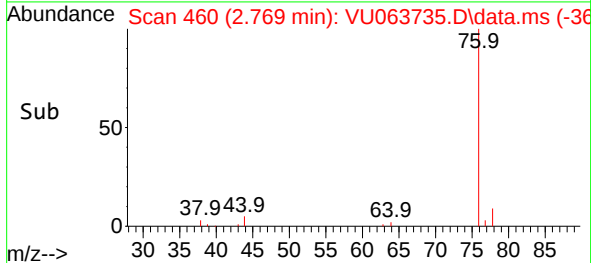
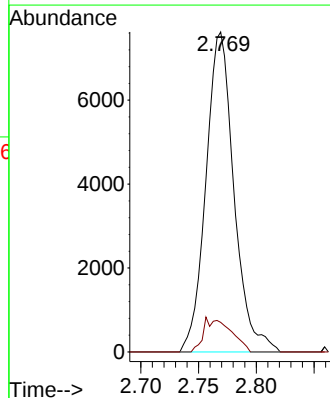
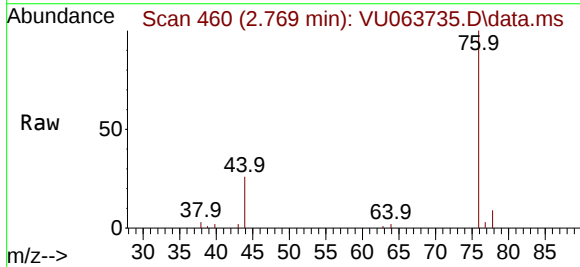
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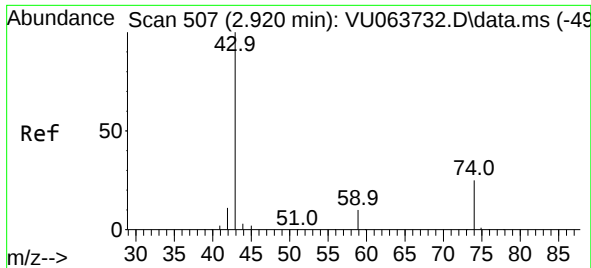
Tgt Ion: 76 Resp: 12885

Ion Ratio Lower Upper

76 100

78 9.2 7.8 11.6

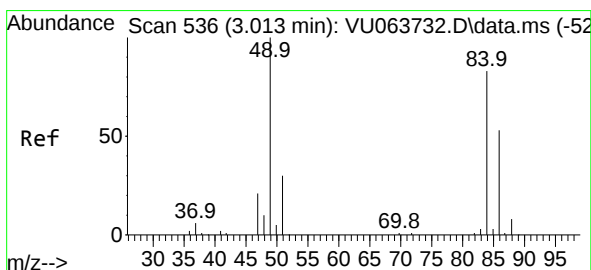
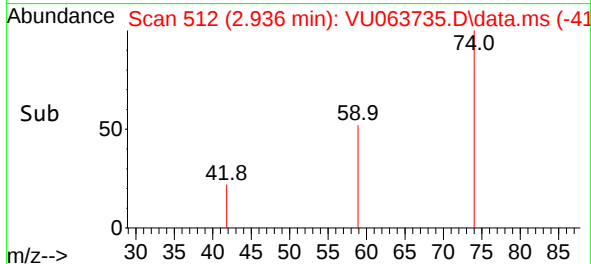
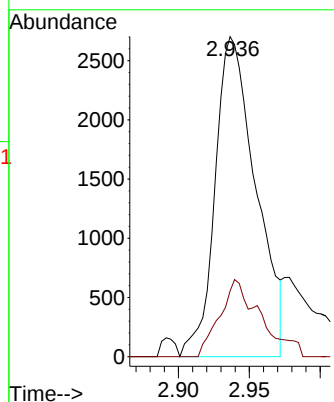
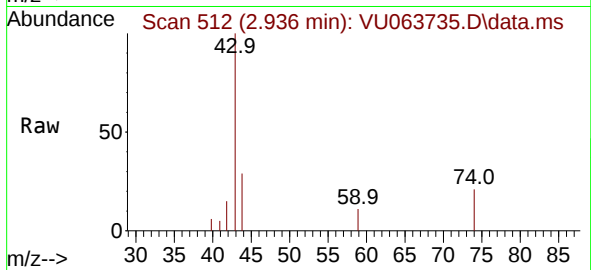




#15
Methyl Acetate
Concen: 2.065 ug/L
RT: 2.936 min Scan# 512
Delta R.T. 0.016 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

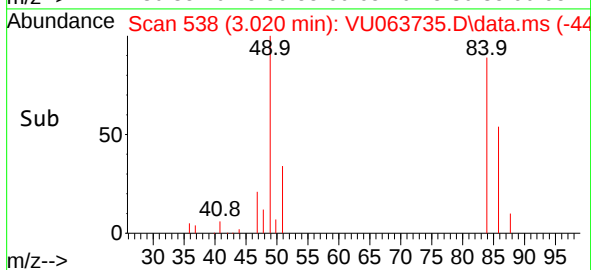
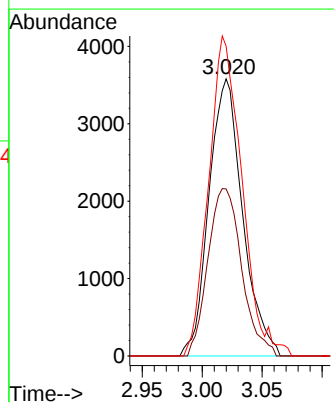
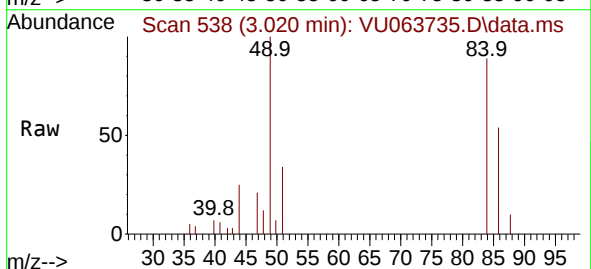
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

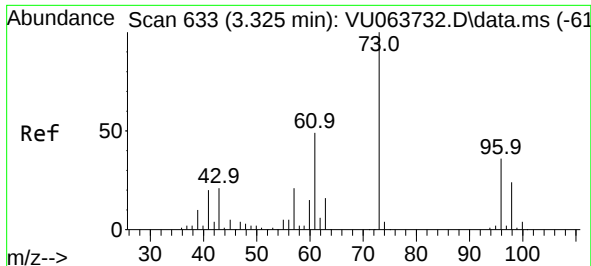
Tgt Ion: 43 Resp: 5423
Ion Ratio Lower Upper
43 100
74 15.3 20.5 30.7#



#16
Methylene chloride
Concen: 2.795 ug/L
RT: 3.020 min Scan# 538
Delta R.T. 0.007 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion: 84 Resp: 6982
Ion Ratio Lower Upper
84 100
86 60.3 45.2 84.0
49 111.8 83.6 155.2

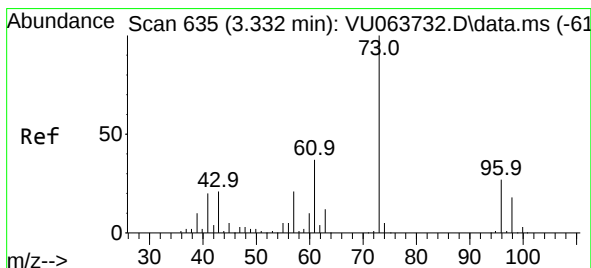
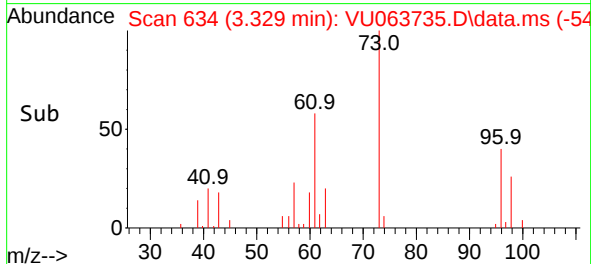
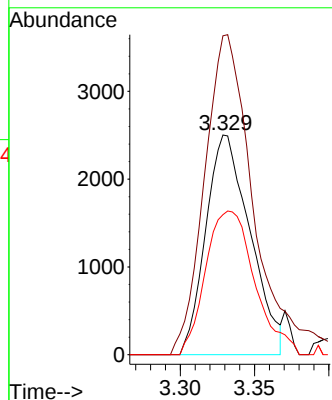
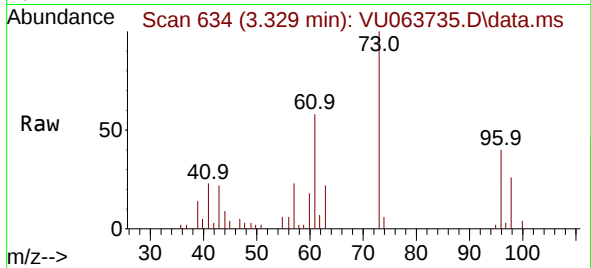




#17
trans-1,2-Dichloroethene
Concen: 2.271 ug/L
RT: 3.329 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

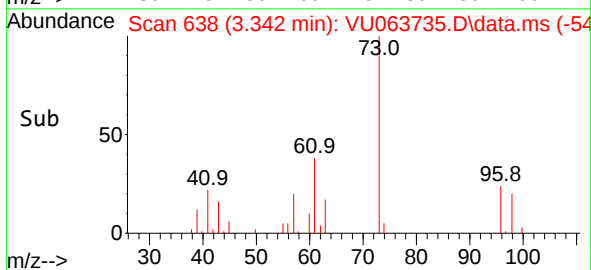
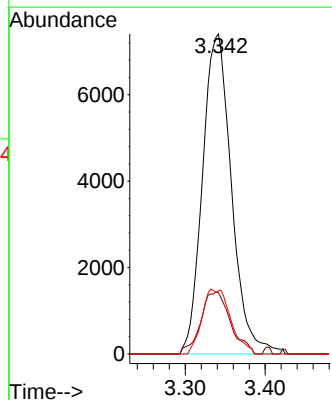
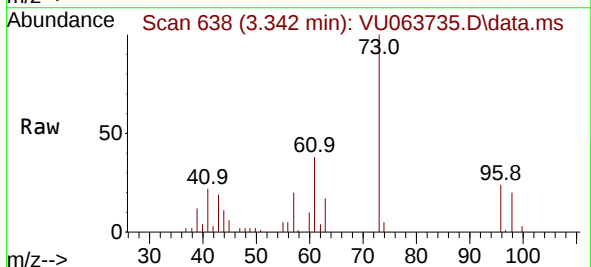
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

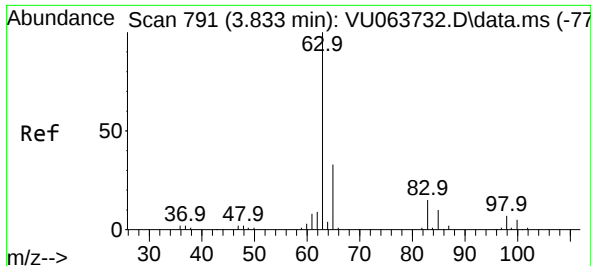
Tgt Ion: 96 Resp: 5188
Ion Ratio Lower Upper
96 100
61 145.2 92.7 172.1
98 63.8 43.2 80.2



#18
Methyl tert-butyl Ether
Concen: 2.413 ug/L
RT: 3.342 min Scan# 638
Delta R.T. 0.010 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion: 73 Resp: 18657
Ion Ratio Lower Upper
73 100
43 0.4 16.6 24.8#
57 10.2 16.3 24.5#





#19

1,1-Dichloroethane

Concen: 2.374 ug/L

RT: 3.840 min Scan# 791

Delta R.T. 0.007 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2025-08

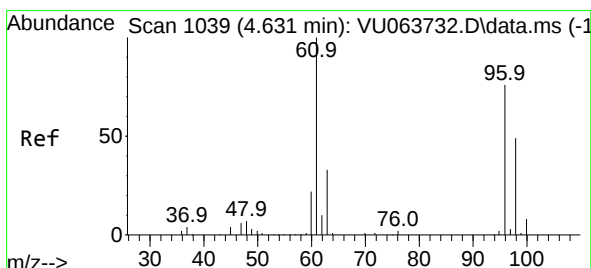
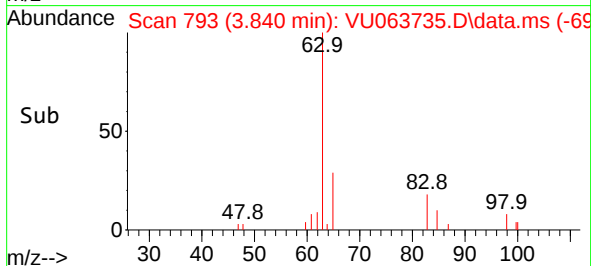
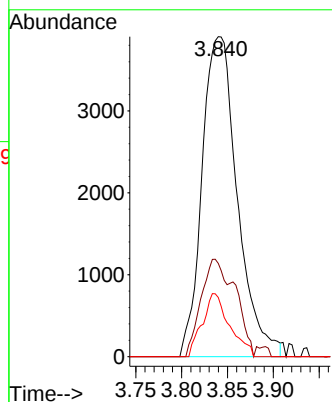
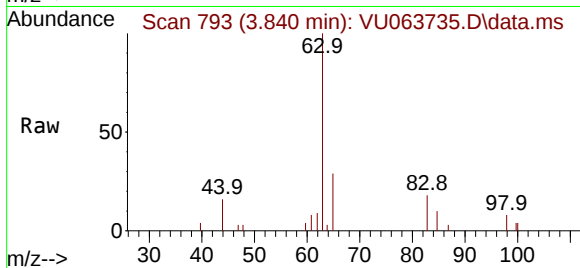
Tgt Ion: 63 Resp: 10451

Ion Ratio Lower Upper

63 100

65 28.2 22.0 41.0

83 17.9 9.5 17.7#



#20

cis-1,2-Dichloroethene

Concen: 2.331 ug/L

RT: 4.637 min Scan# 1041

Delta R.T. 0.007 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

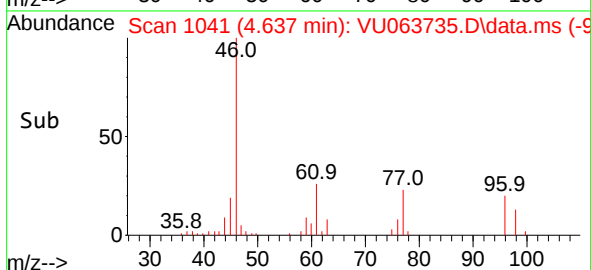
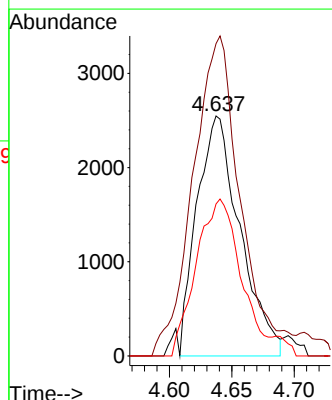
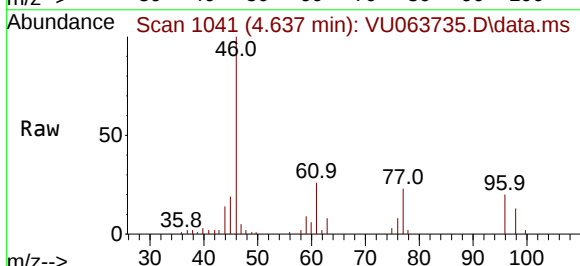
Tgt Ion: 96 Resp: 6129

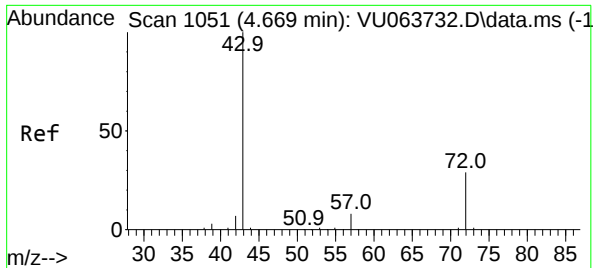
Ion Ratio Lower Upper

96 100

61 130.1 90.3 167.7

98 63.3 46.3 86.1

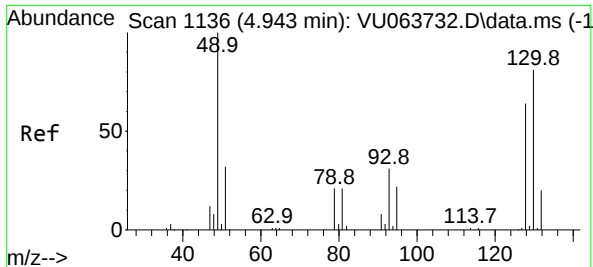
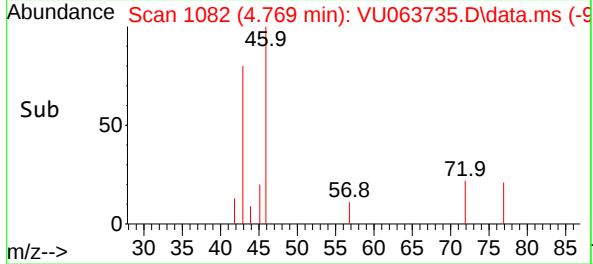
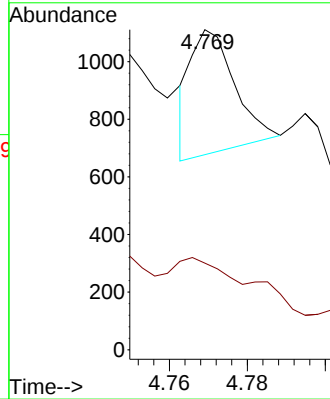
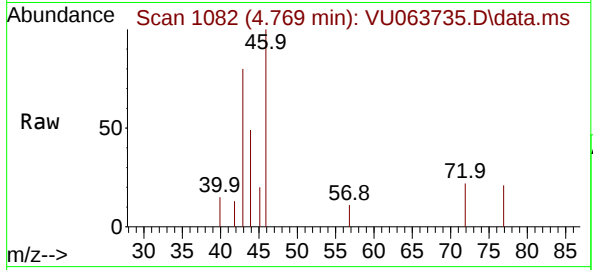




#22
2-Butanone
Concen: 0.140 ug/L
RT: 4.769 min Scan# 1051
Delta R.T. 0.100 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

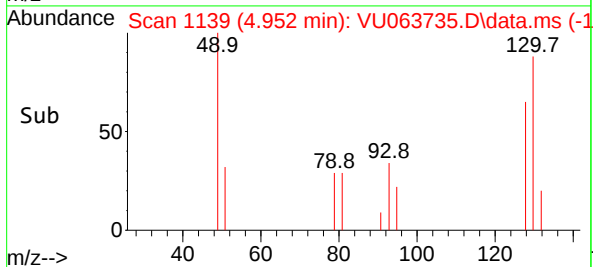
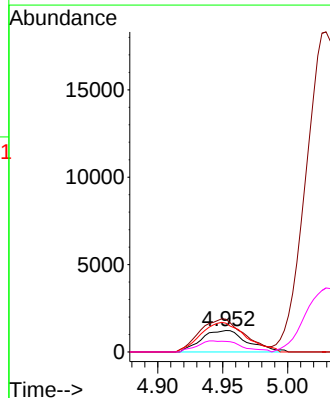
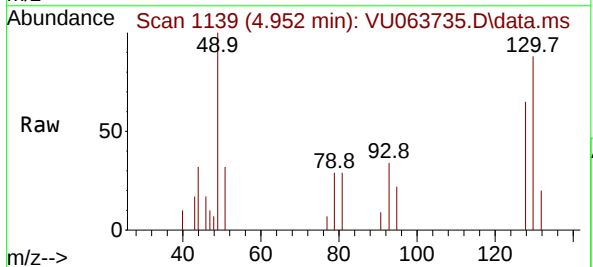
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-QT4-2025-08

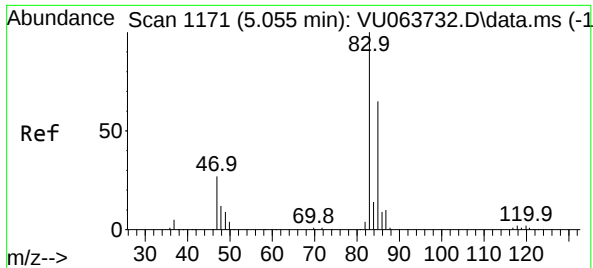
Tgt Ion: 43 Resp: 339
Ion Ratio Lower Upper
43 100
72 28.6 13.6 40.7



#23
Bromochloromethane
Concen: 2.224 ug/L
RT: 4.952 min Scan# 1139
Delta R.T. 0.010 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion:128 Resp: 3007
Ion Ratio Lower Upper
128 100
49 153.1 113.5 210.7
130 134.3 89.8 166.8
51 49.4 39.7 59.5





#25

Chloroform

Concen: 2.686 ug/L

RT: 5.058 min Scan# 1171

Delta R.T. 0.003 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Instrument :

MSVOA_U

ClientSampleId :

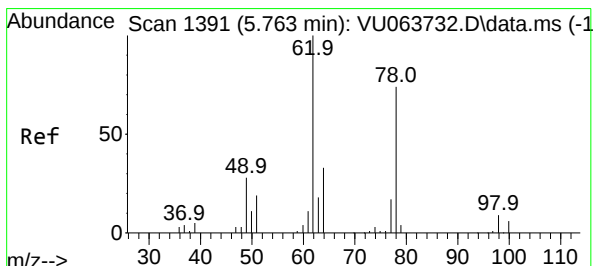
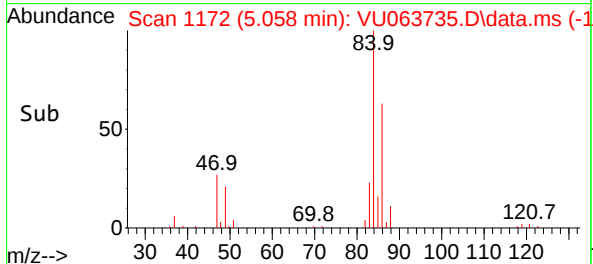
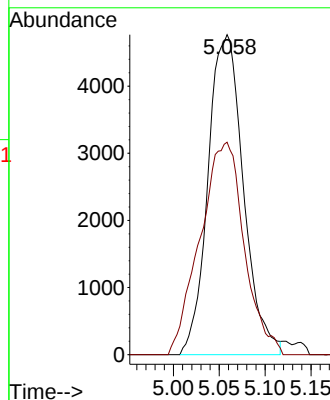
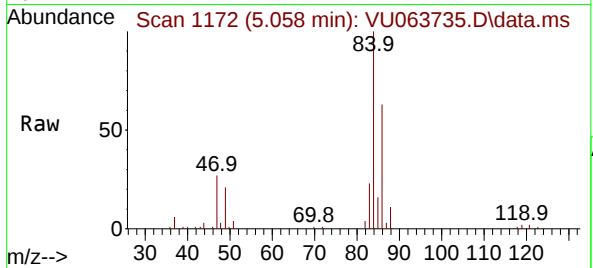
MDL-WATER-QT4-2025-08

Tgt Ion: 83 Resp: 12800

Ion Ratio Lower Upper

83 100

85 66.4 45.4 84.4



#27

1,2-Dichloroethane

Concen: 2.051 ug/L

RT: 5.772 min Scan# 1394

Delta R.T. 0.010 min

Lab File: VU063735.D

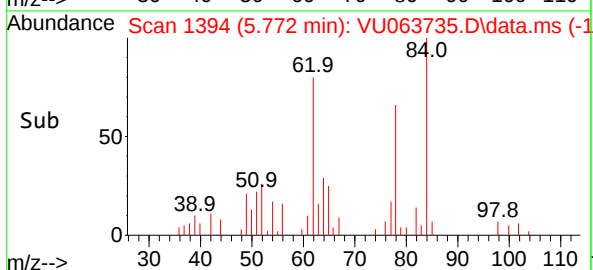
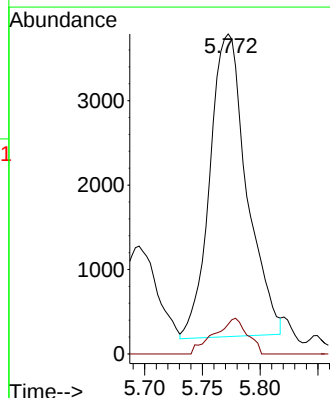
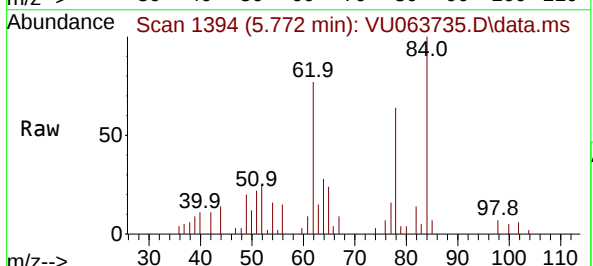
Acq: 18 Nov 2025 11:46

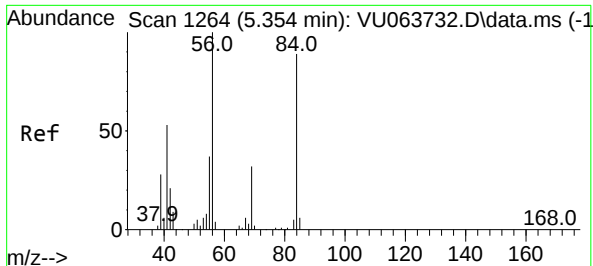
Tgt Ion: 62 Resp: 7977

Ion Ratio Lower Upper

62 100

98 9.3 7.6 11.4





#29

Cyclohexane

Concen: 2.452 ug/L

RT: 5.354 min Scan# 1264

Delta R.T. 0.000 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

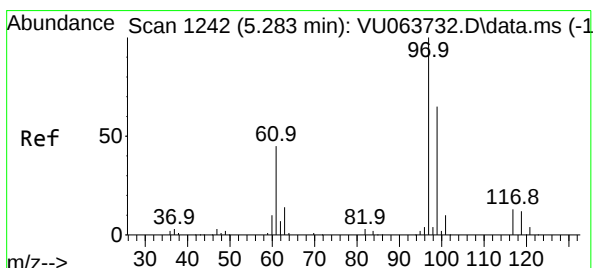
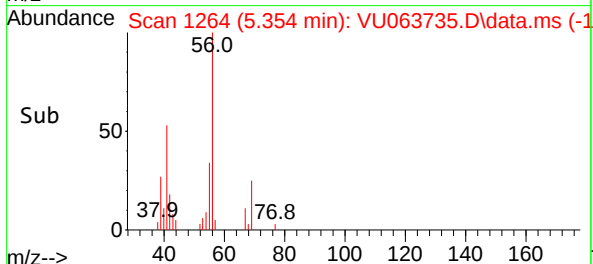
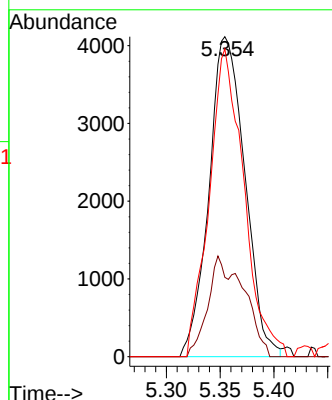
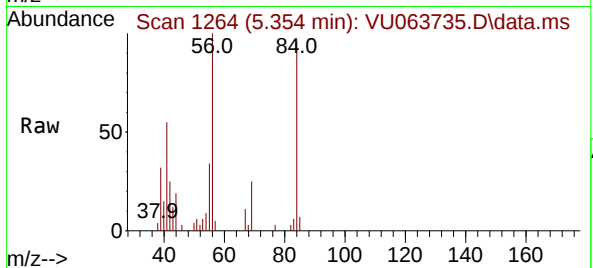
Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2025-08

Tgt Ion:	56	Resp:	9566
Ion Ratio	Lower	Upper	
56	100		
69	16.9	25.8	38.8#
84	92.9	69.3	103.9



#30

1,1,1-Trichloroethane

Concen: 2.355 ug/L

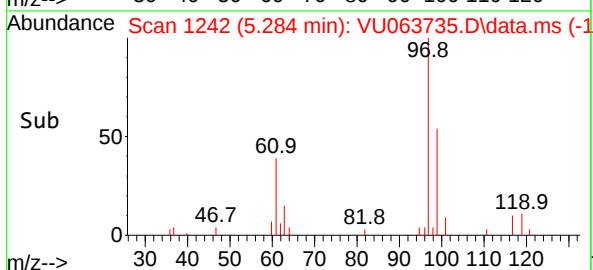
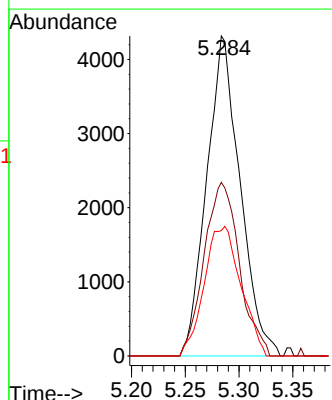
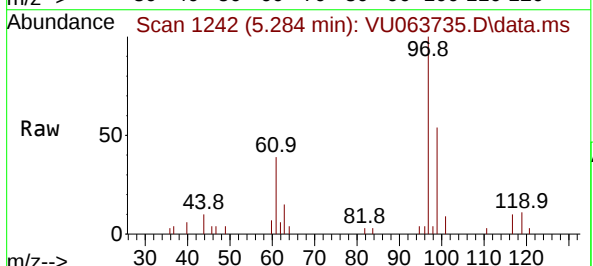
RT: 5.284 min Scan# 1242

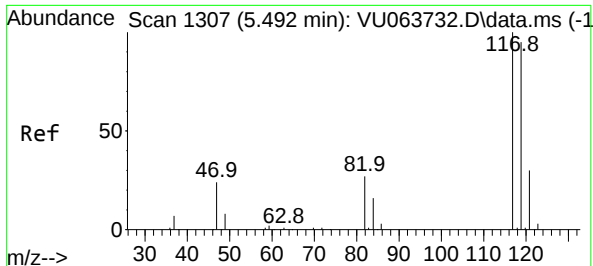
Delta R.T. 0.000 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Tgt Ion:	97	Resp:	9324
Ion Ratio	Lower	Upper	
97	100		
99	57.1	50.7	76.1
61	19.0	37.2	55.8#

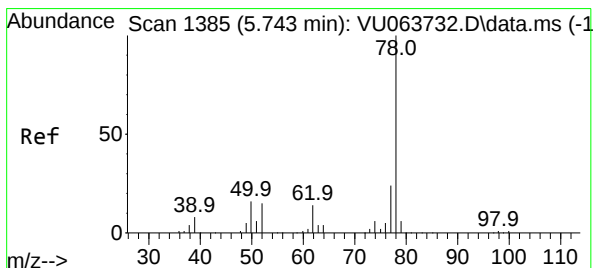
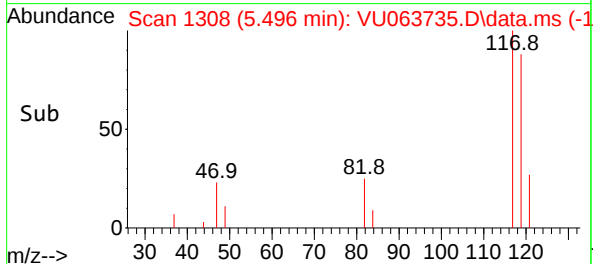
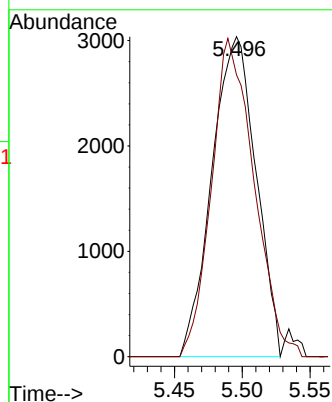
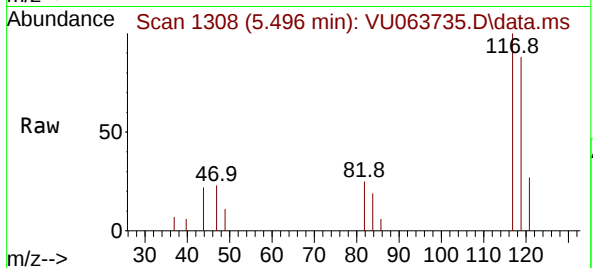




#31
Carbon tetrachloride
Concen: 2.204 ug/L
RT: 5.496 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

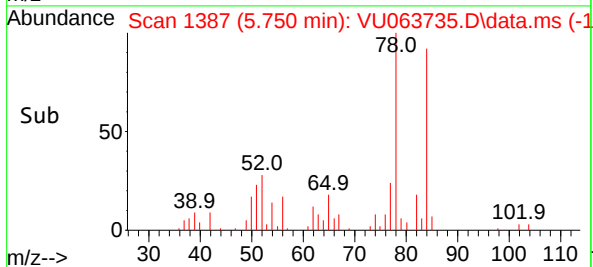
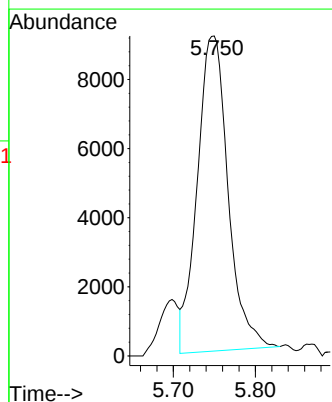
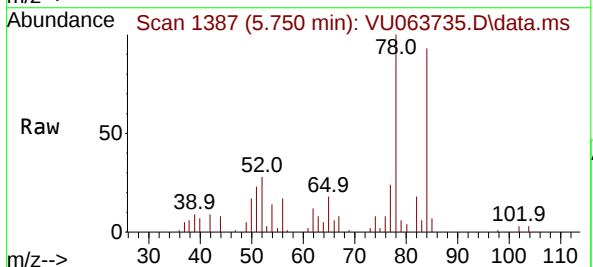
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

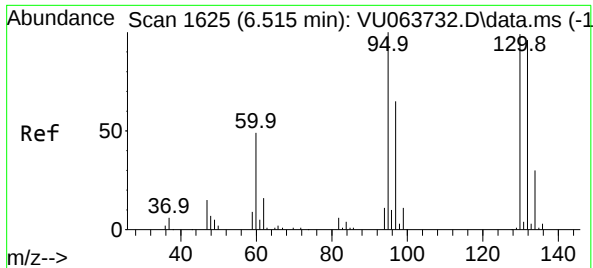
Tgt Ion:117 Resp: 6860
Ion Ratio Lower Upper
117 100
119 96.0 76.0 114.0



#33
Benzene
Concen: 2.518 ug/L
RT: 5.750 min Scan# 1387
Delta R.T. 0.007 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion: 78 Resp: 23813





#34

Trichloroethene

Concen: 2.485 ug/L

RT: 6.518 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2025-08

Tgt Ion: 95 Resp: 6775

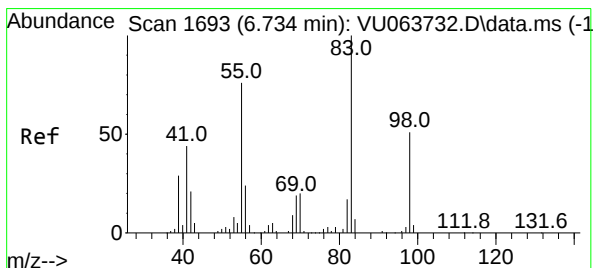
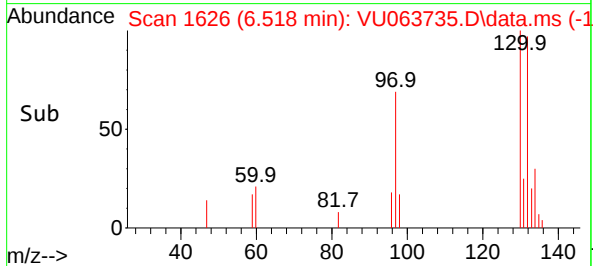
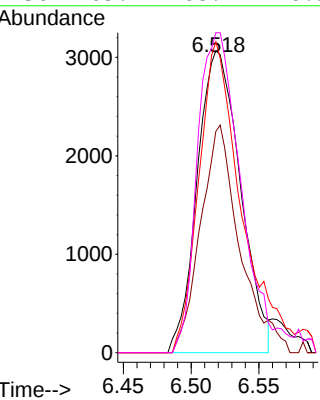
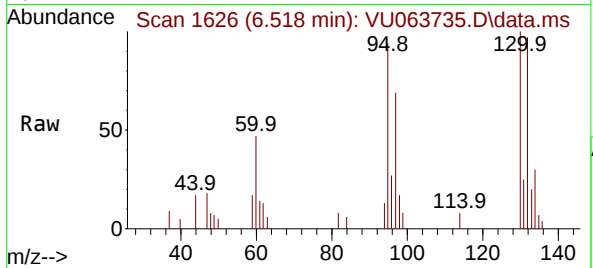
Ion Ratio Lower Upper

95 100

97 73.3 45.1 83.9

132 102.9 68.3 126.8

130 105.9 68.1 126.5



#35

Methylcyclohexane

Concen: 2.591 ug/L

RT: 6.730 min Scan# 1692

Delta R.T. -0.003 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

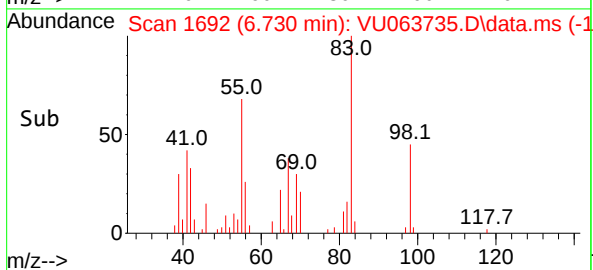
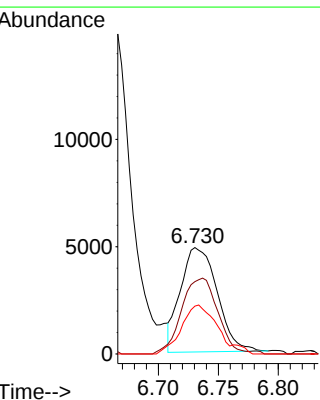
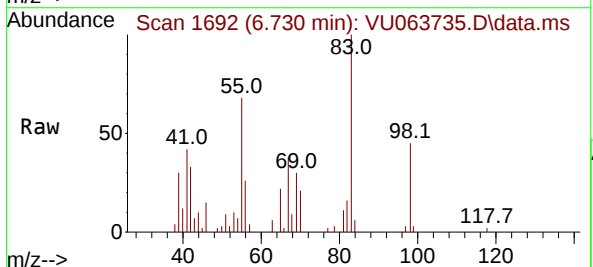
Tgt Ion: 83 Resp: 10368

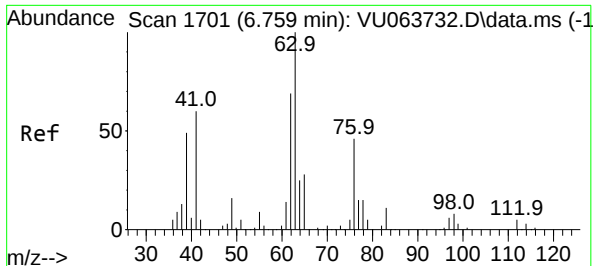
Ion Ratio Lower Upper

83 100

55 71.4 60.9 91.3

98 43.4 39.7 59.5

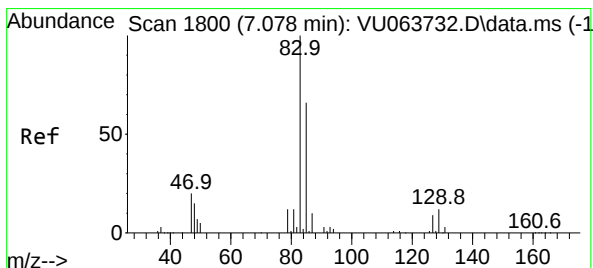
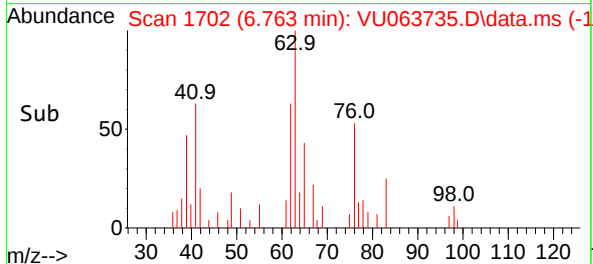
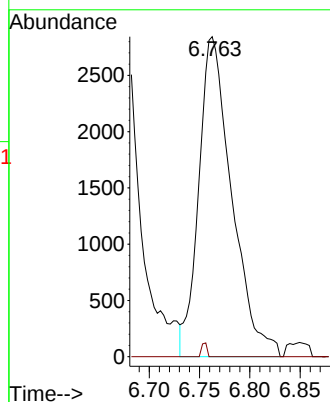
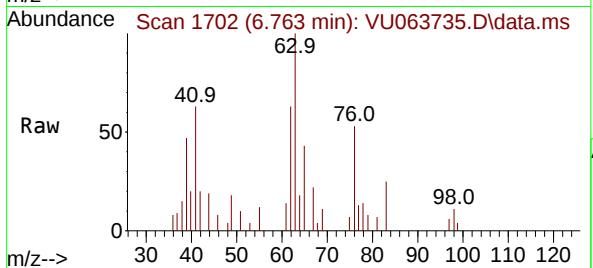




#37
1,2-Dichloropropane
Concen: 2.640 ug/L
RT: 6.763 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

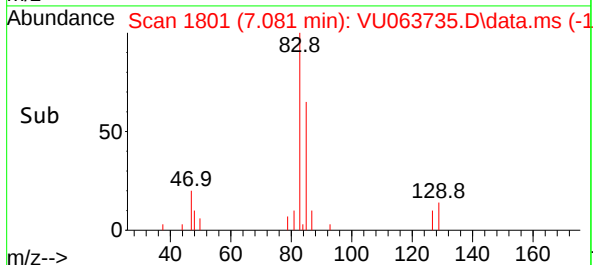
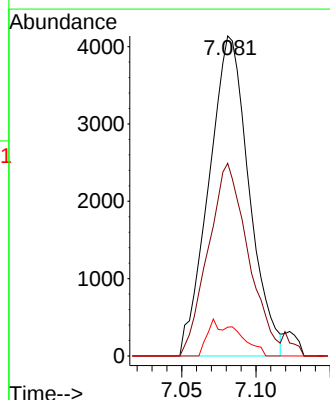
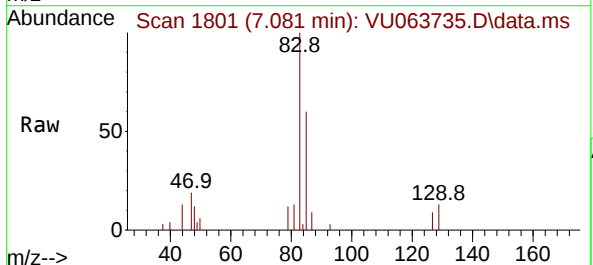
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

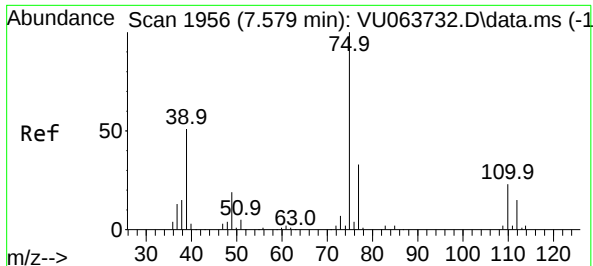
Tgt Ion: 63 Resp: 6487
Ion Ratio Lower Upper
63 100
112 0.7 3.7 5.5#



#38
Bromodichloromethane
Concen: 2.311 ug/L
RT: 7.081 min Scan# 1801
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion: 83 Resp: 7778
Ion Ratio Lower Upper
83 100
85 60.2 43.1 80.1
127 9.0 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 2.286 ug/L

RT: 7.586 min Scan# 1956

Delta R.T. 0.007 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Instrument :

MSVOA_U

ClientSampleId :

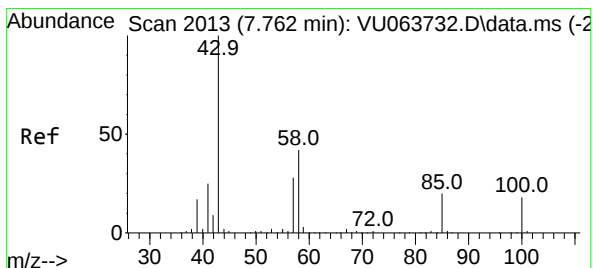
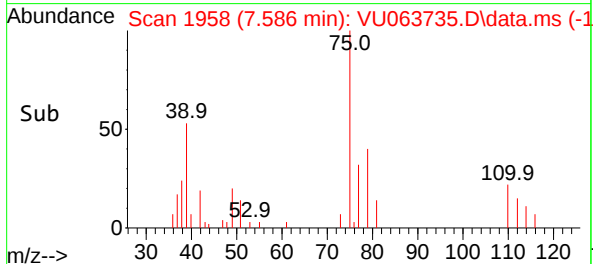
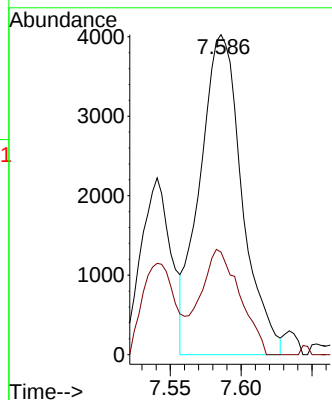
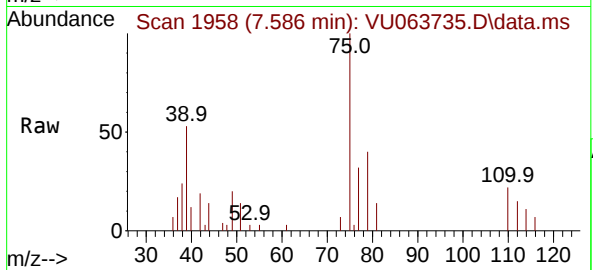
MDL-WATER-QT4-2025-08

Tgt Ion: 75 Resp: 8331

Ion Ratio Lower Upper

75 100

77 32.1 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 4.680 ug/L

RT: 7.769 min Scan# 2015

Delta R.T. 0.007 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

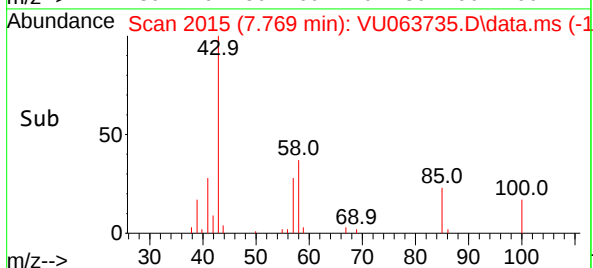
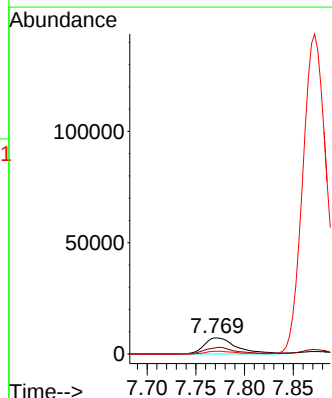
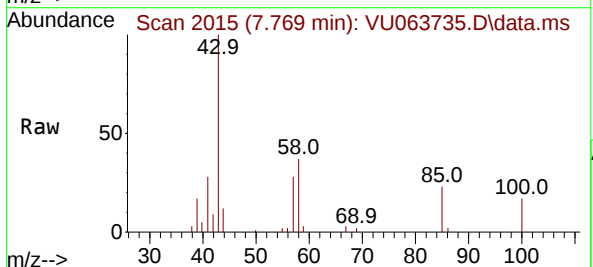
Tgt Ion: 43 Resp: 16646

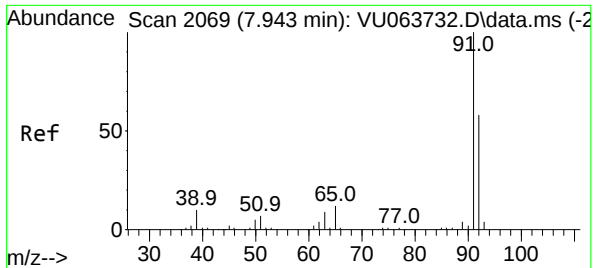
Ion Ratio Lower Upper

43 100

58 37.7 32.9 49.3

100 14.6 13.9 20.9





#42

Toluene

Concen: 2.587 ug/L

RT: 7.946 min Scan# 2069

Delta R.T. 0.003 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Instrument :

MSVOA_U

ClientSampleId :

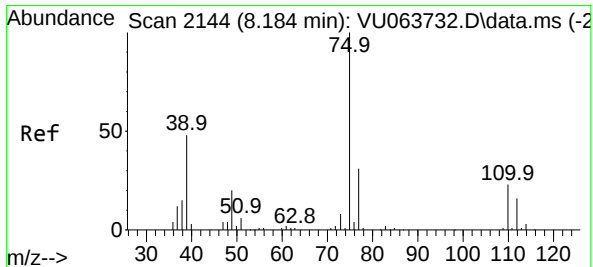
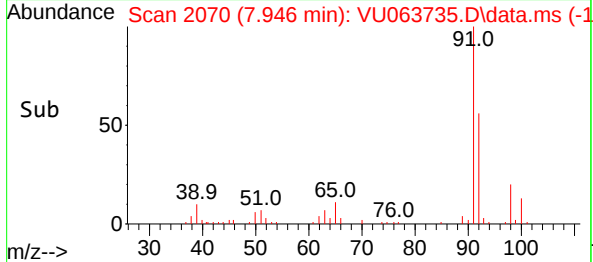
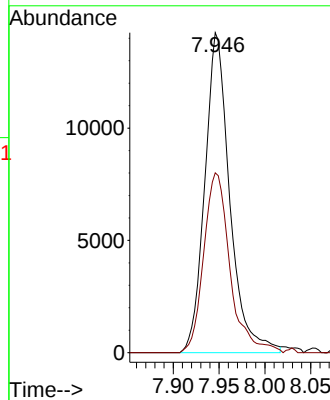
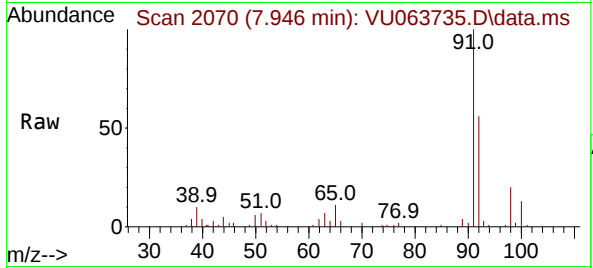
MDL-WATER-QT4-2025-08

Tgt Ion: 91 Resp: 27005

Ion Ratio Lower Upper

91 100

92 56.2 41.2 76.4



#44

trans-1,3-Dichloropropene

Concen: 2.350 ug/L

RT: 8.190 min Scan# 2146

Delta R.T. 0.007 min

Lab File: VU063735.D

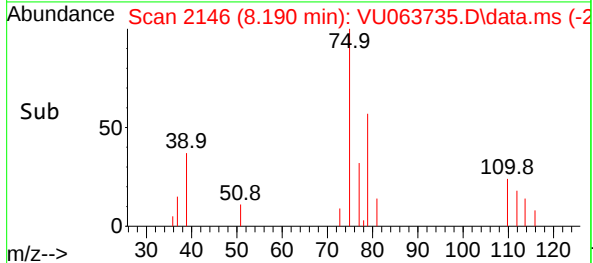
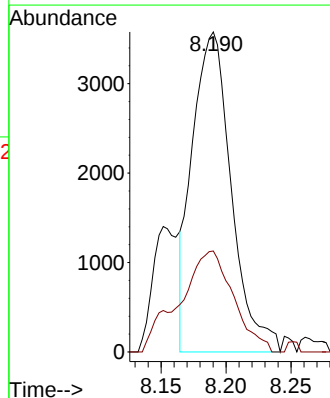
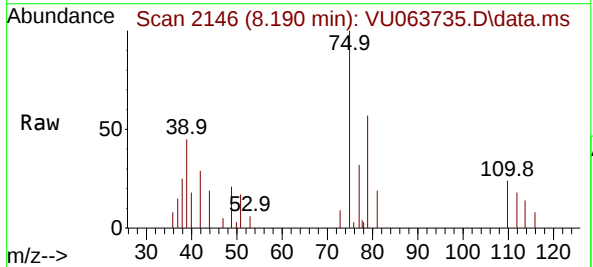
Acq: 18 Nov 2025 11:46

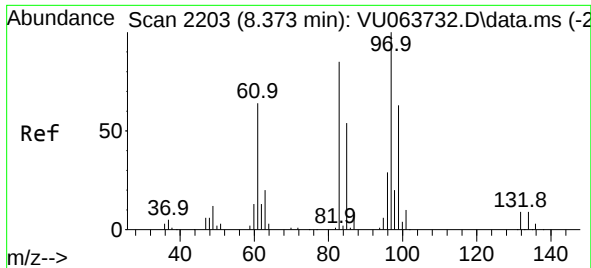
Tgt Ion: 75 Resp: 7476

Ion Ratio Lower Upper

75 100

77 34.1 21.4 39.8

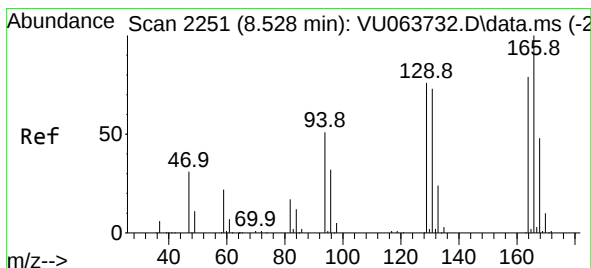
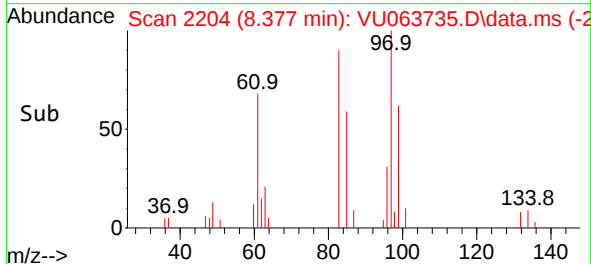
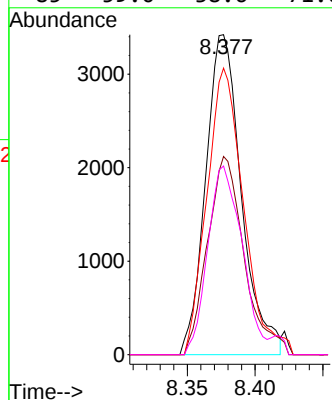
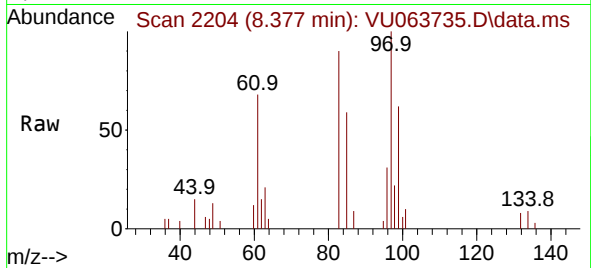




#45
1,1,2-Trichloroethane
Concen: 2.415 ug/L
RT: 8.377 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

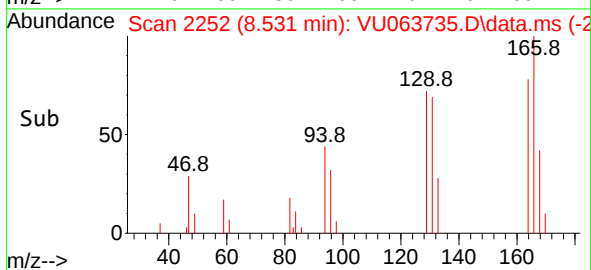
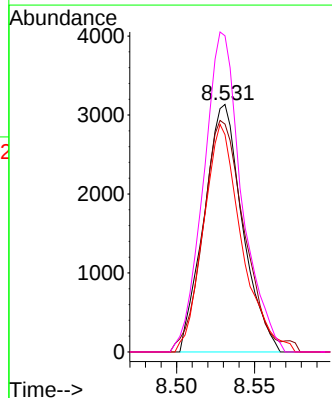
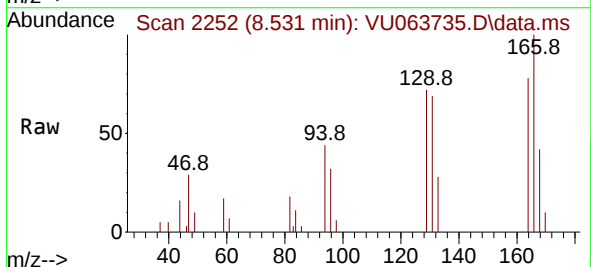
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

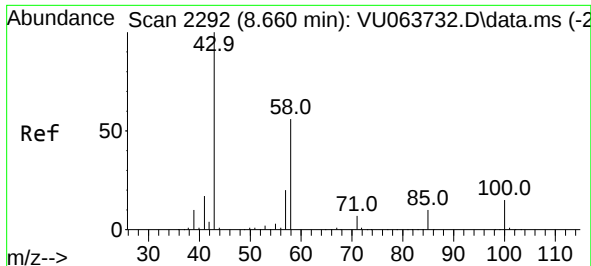
Tgt Ion: 97	Resp: 6275
Ion Ratio	Lower Upper
97 100	
99 61.9	43.7 81.1
83 89.6	59.7 110.9
85 59.0	38.6 71.6



#46
Tetrachloroethene
Concen: 2.576 ug/L
RT: 8.531 min Scan# 2252
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt	Ion:164	Resp:	5371
Ion	Ratio	Lower	Upper
164	100		
129	92.1	68.5	127.3
131	87.8	64.3	119.3
166	127.7	89.5	166.1

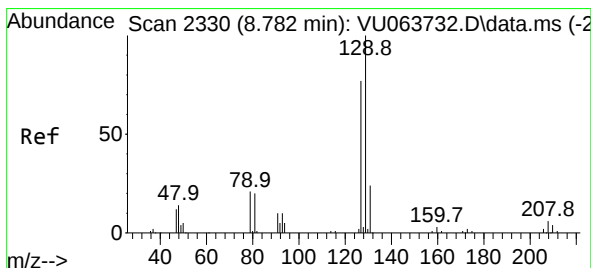
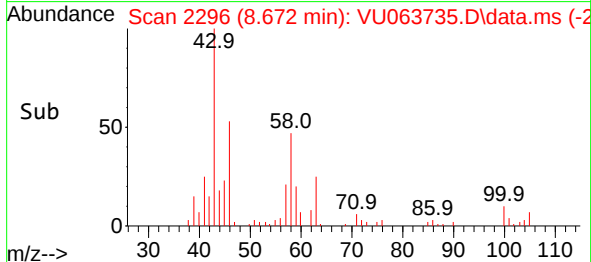
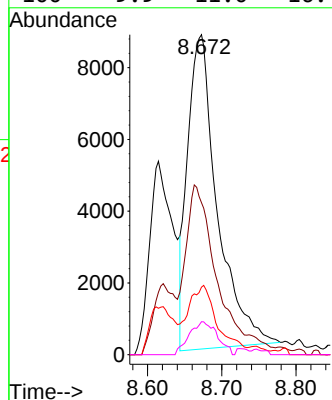
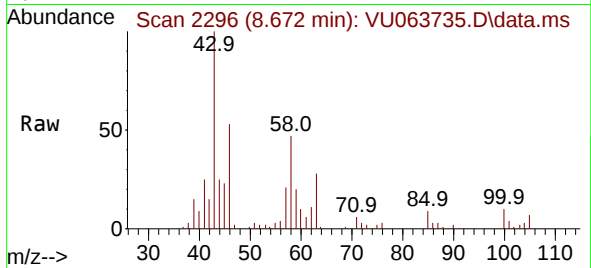




#48
2-Hexanone
Concen: 8.744 ug/L
RT: 8.672 min Scan# 21
Delta R.T. 0.013 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

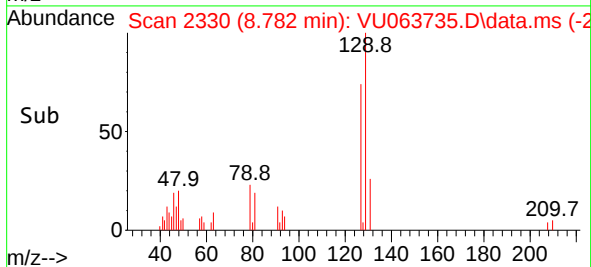
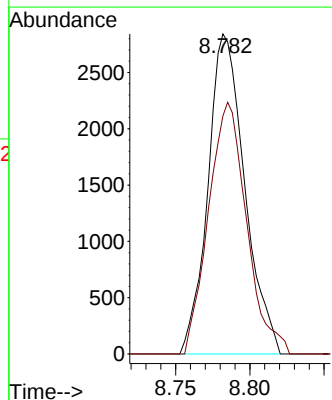
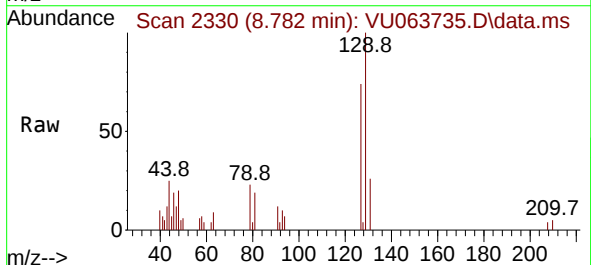
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

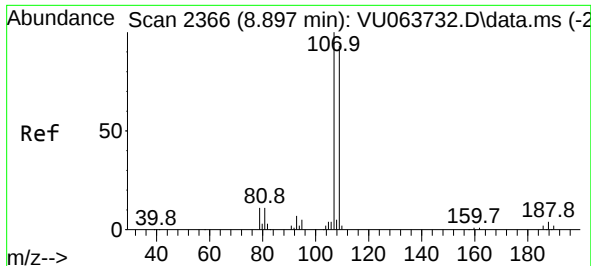
Tgt Ion:	43	Resp:	24411
Ion	Ratio	Lower	Upper
43	100		
58	46.0	44.8	67.2
57	2.1	16.6	24.8#
100	9.9	11.0	16.4#



#49
Dibromochloromethane
Concen: 1.949 ug/L
RT: 8.782 min Scan# 2330
Delta R.T. 0.000 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion:	129	Resp:	4892
Ion	Ratio	Lower	Upper
129	100		
127	78.4	53.4	99.2





#50

1,2-Dibromoethane

Concen: 2.500 ug/L

RT: 8.901 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

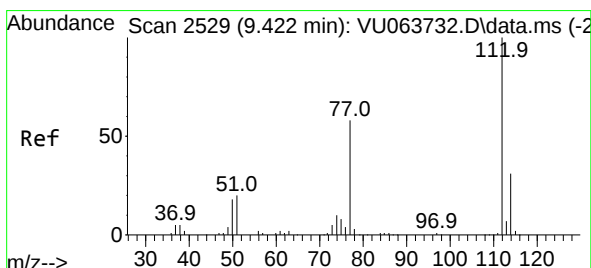
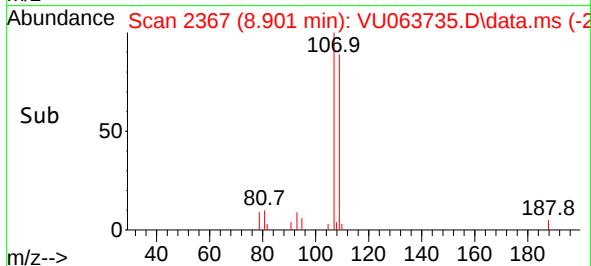
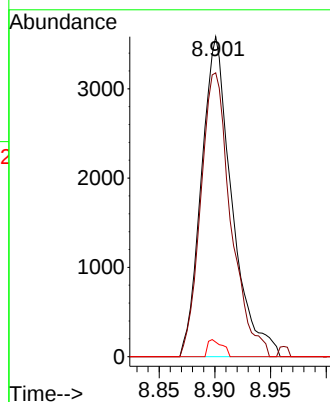
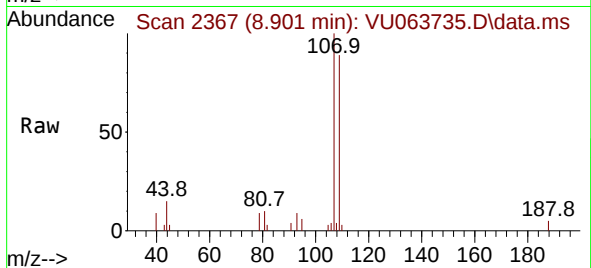
Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2025-08

Tgt Ion:107	Resp:	6820
Ion	Ratio	Lower Upper
107	100	
109	88.7	65.8 122.2
188	4.5	3.2 4.8



#51

Chlorobenzene

Concen: 2.578 ug/L

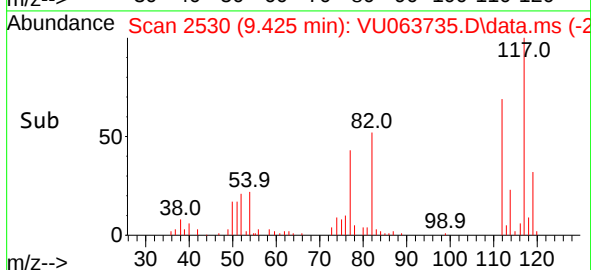
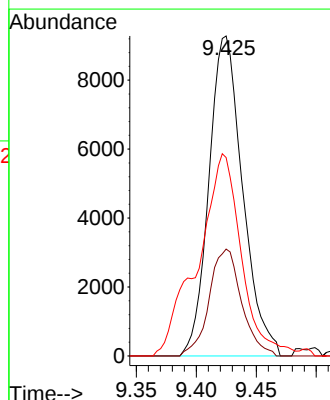
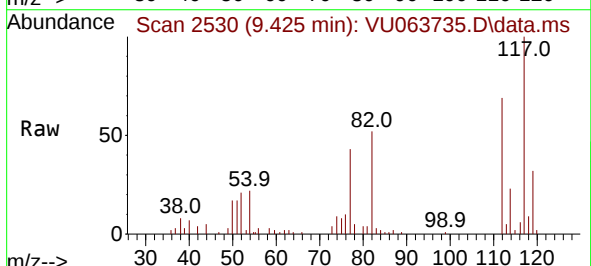
RT: 9.425 min Scan# 2530

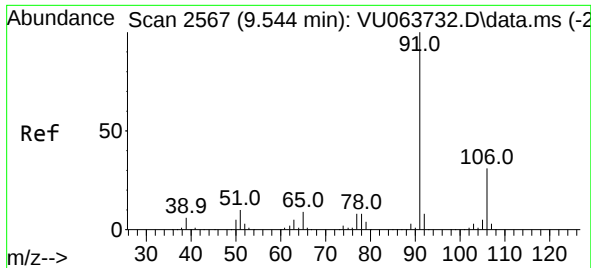
Delta R.T. 0.003 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Tgt Ion:112	Resp:	18159
Ion	Ratio	Lower Upper
112	100	
114	33.4	22.1 41.1
77	62.0	48.0 72.0

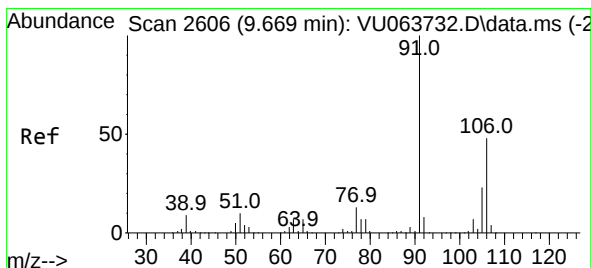
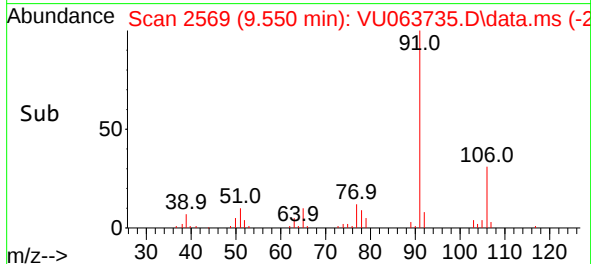
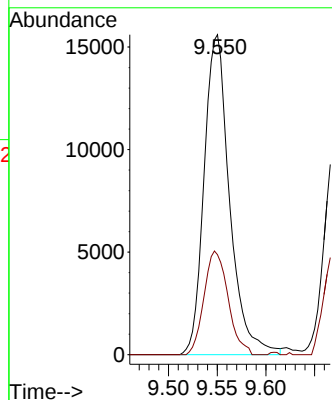
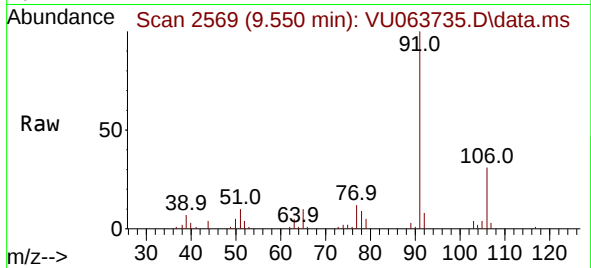




#52
Ethylbenzene
Concen: 2.342 ug/L
RT: 9.550 min Scan# 210
Delta R.T. 0.007 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

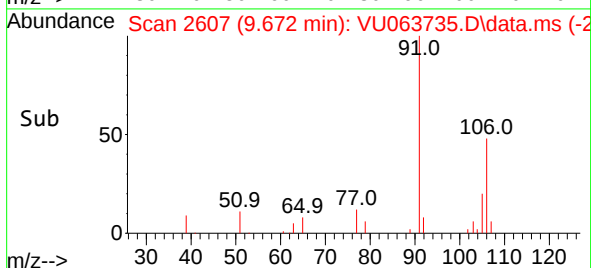
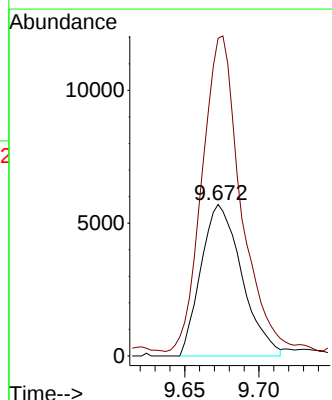
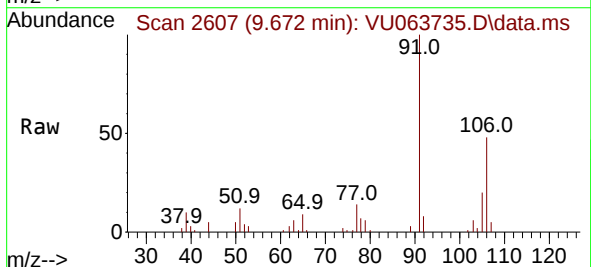
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

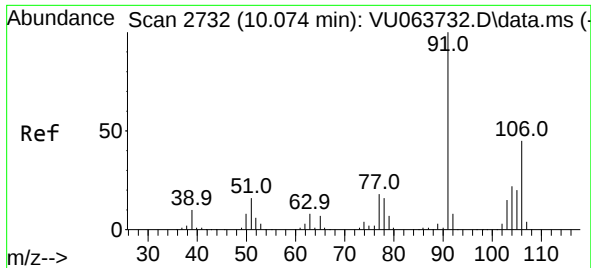
Tgt Ion: 91 Resp: 28385
Ion Ratio Lower Upper
91 100
106 34.5 21.3 39.6



#53
m,p-Xylene
Concen: 2.360 ug/L
RT: 9.672 min Scan# 2607
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion:106 Resp: 10904
Ion Ratio Lower Upper
106 100
91 209.7 143.6 266.6

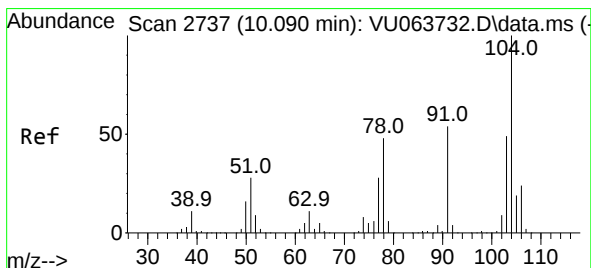
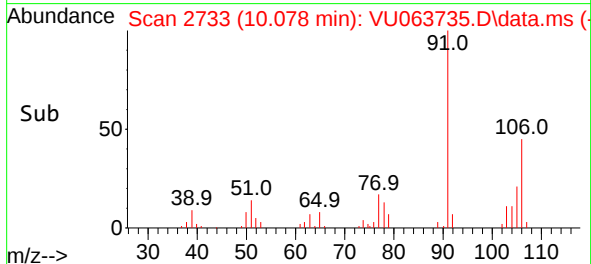
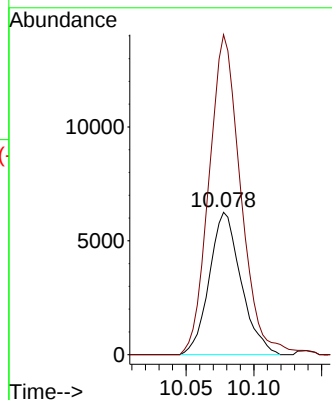
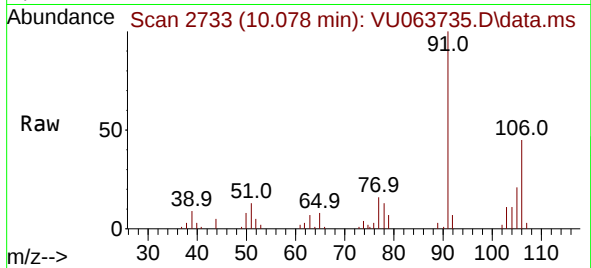




#54
o-Xylene
Concen: 2.263 ug/L
RT: 10.078 min Scan# 2733
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

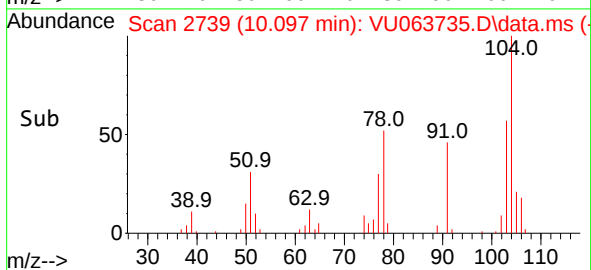
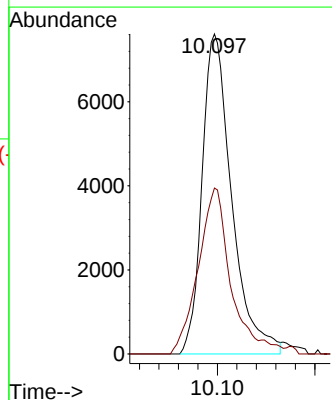
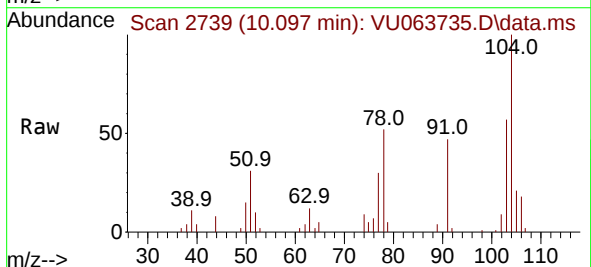
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

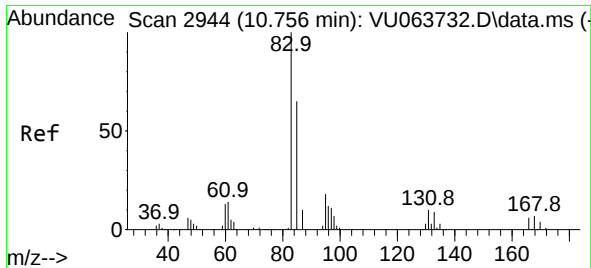
Tgt Ion:106 Resp: 10183
Ion Ratio Lower Upper
106 100
91 224.7 156.0 289.6



#55
Styrene
Concen: 2.205 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.007 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion:104 Resp: 16075
Ion Ratio Lower Upper
104 100
78 57.0 32.0 59.4

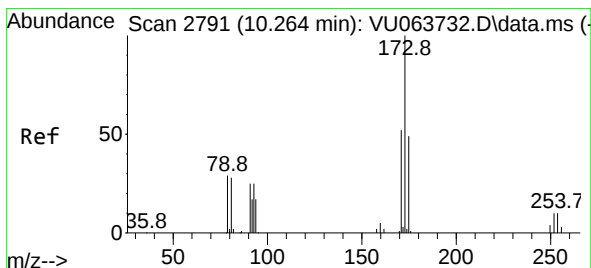
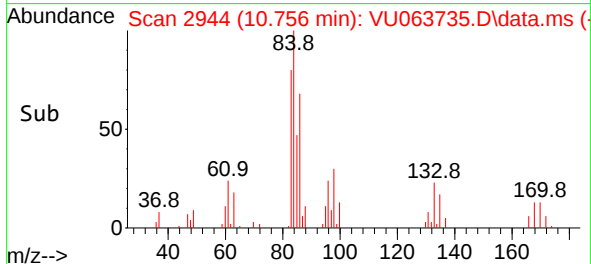
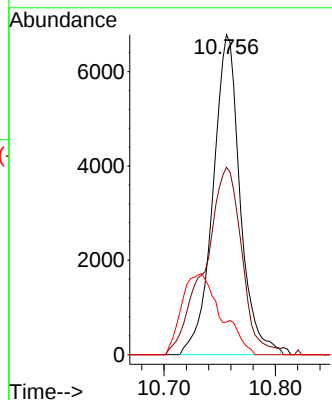
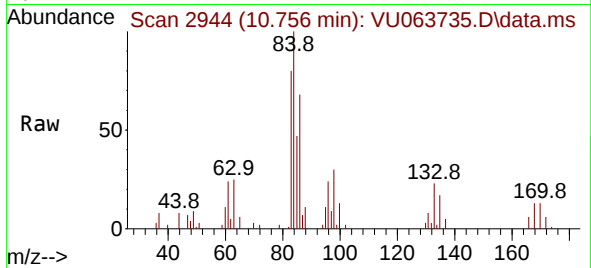




#57
1,1,2,2-Tetrachloroethane
Concen: 2.707 ug/L
RT: 10.756 min Scan# 2944
Delta R.T. 0.000 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

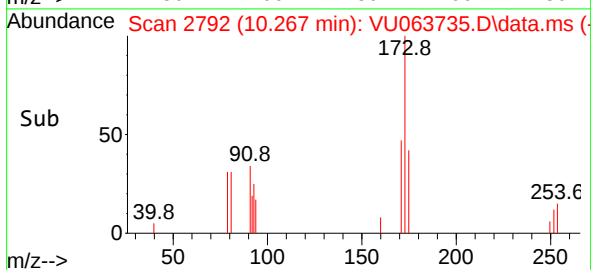
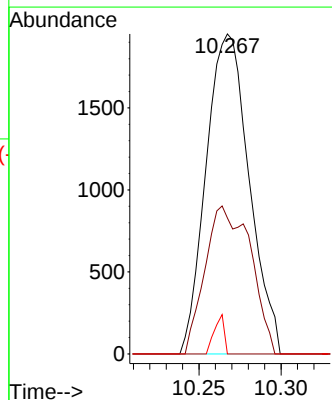
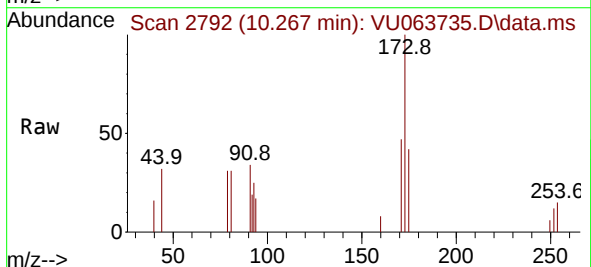
Instrument : MSVOA_U
ClientSampleId : MDL-WATER-QT4-2025-08

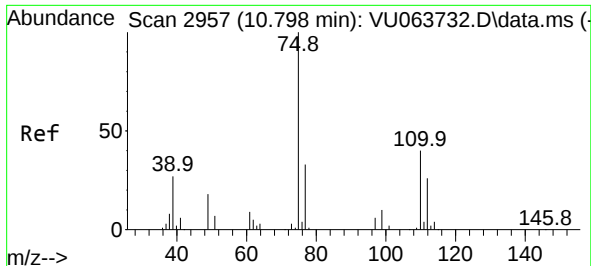
Tgt Ion:	83	Resp:	11456
Ion Ratio	Lower	Upper	
83	100		
85	58.5	45.7	84.9
131	10.2	7.4	11.2



#59
Bromoform
Concen: 1.983 ug/L
RT: 10.267 min Scan# 2792
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion:	173	Resp:	3559
Ion Ratio	Lower	Upper	
173	100		
175	29.6	38.2	57.4#
254	2.8	6.9	10.3#

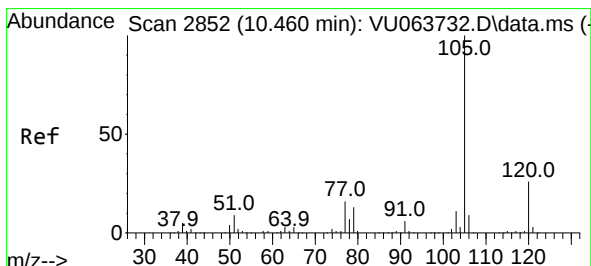
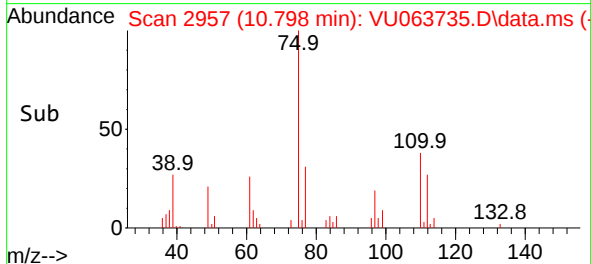
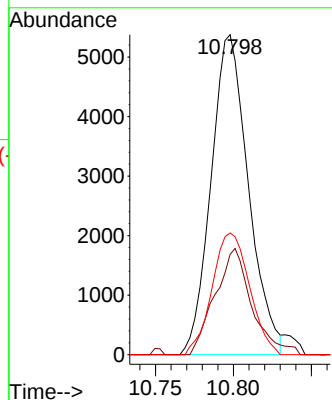
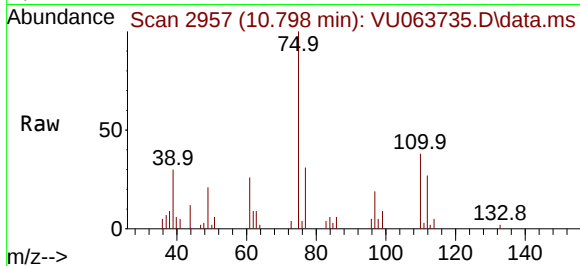




#60
1,2,3-Trichloropropane
Concen: 2.595 ug/L
RT: 10.798 min Scan# 2957
Delta R.T. 0.000 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

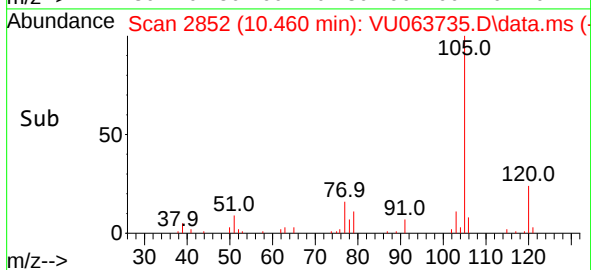
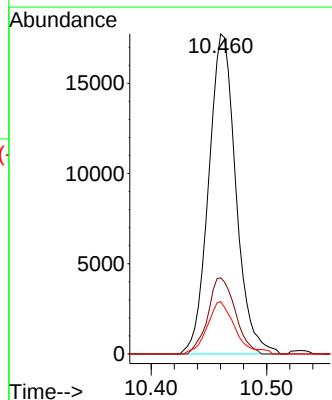
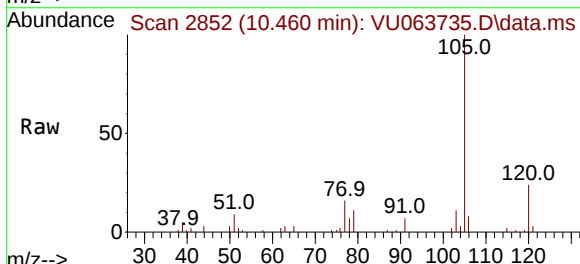
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

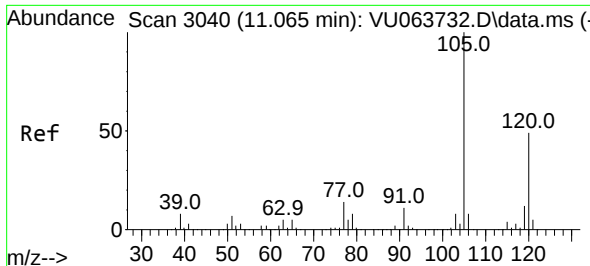
Tgt Ion:	75	Resp:	8951
Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.1	39.1
110	38.1	32.3	48.5



#61
Isopropylbenzene
Concen: 2.440 ug/L
RT: 10.460 min Scan# 2852
Delta R.T. 0.000 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion:	105	Resp:	29083
Ion	Ratio	Lower	Upper
105	100		
120	23.9	20.7	31.1
77	16.1	12.9	19.3

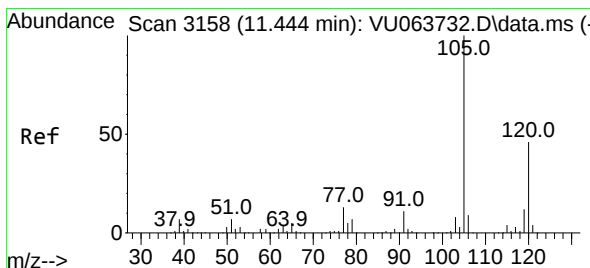
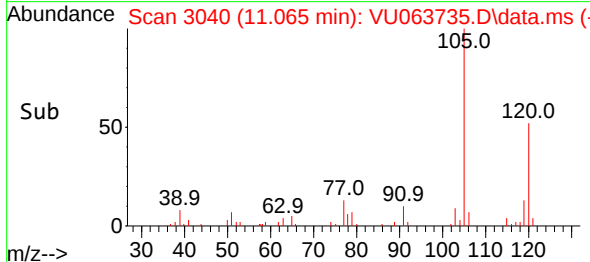
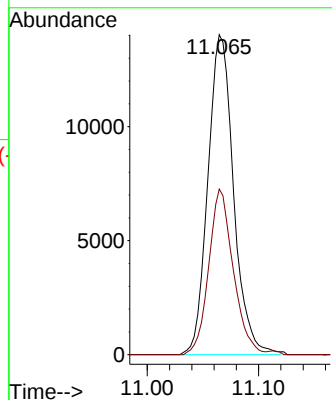
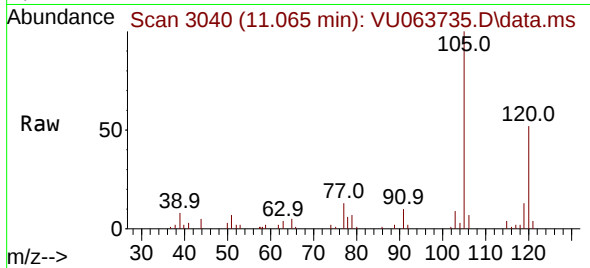




#62
1,3,5-Trimethylbenzene
Concen: 2.295 ug/L
RT: 11.065 min Scan# 3040
Delta R.T. 0.000 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

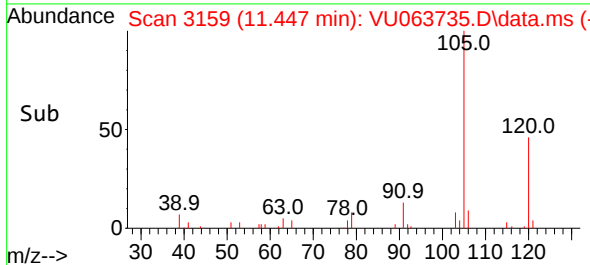
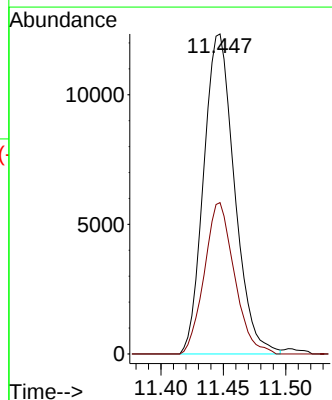
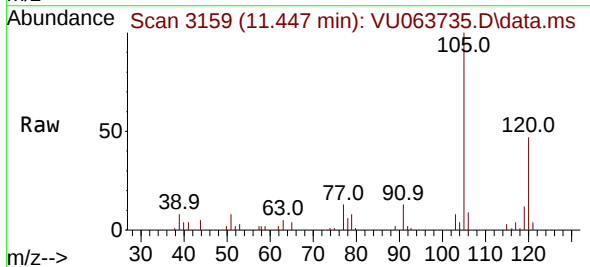
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

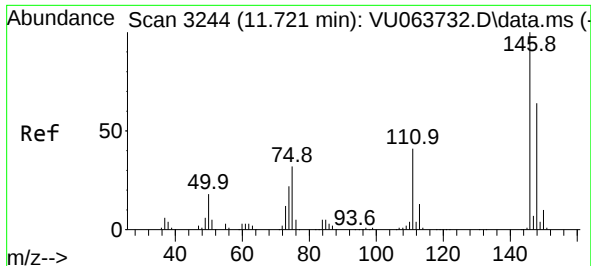
Tgt Ion:105 Resp: 22506
Ion Ratio Lower Upper
105 100
120 49.4 37.8 56.6



#63
1,2,4-Trimethylbenzene
Concen: 2.269 ug/L
RT: 11.447 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion:105 Resp: 21240
Ion Ratio Lower Upper
105 100
120 46.0 35.6 53.4





#64

1,3-Dichlorobenzene

Concen: 2.674 ug/L

RT: 11.724 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU063735.D

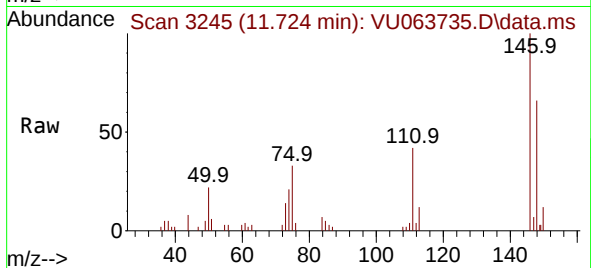
Acq: 18 Nov 2025 11:46

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2025-08



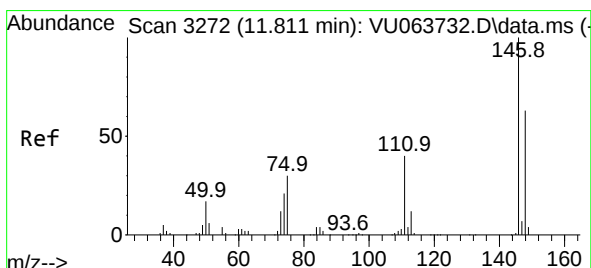
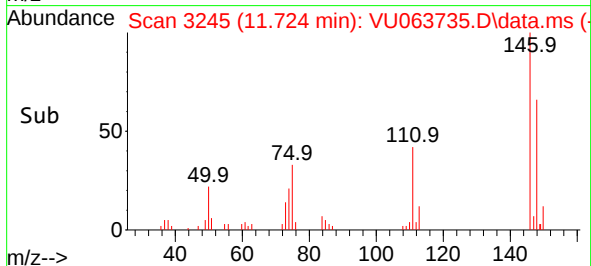
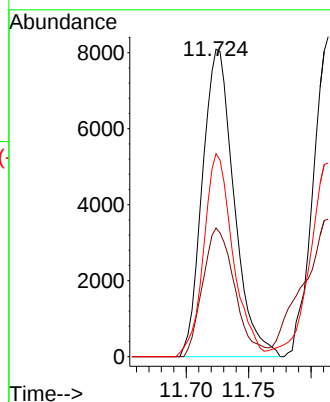
Tgt Ion:146 Resp: 14293

Ion Ratio Lower Upper

146 100

111 41.8 29.8 55.3

148 69.1 44.4 82.4



#65

1,4-Dichlorobenzene

Concen: 2.731 ug/L

RT: 11.814 min Scan# 3273

Delta R.T. 0.003 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

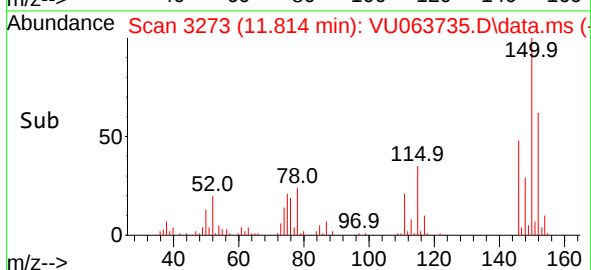
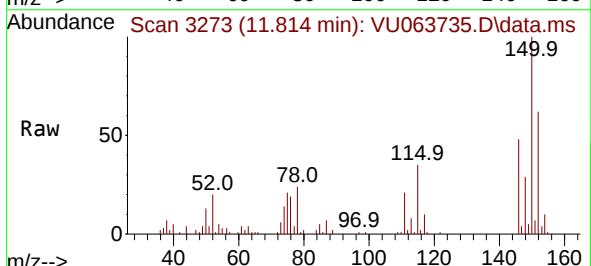
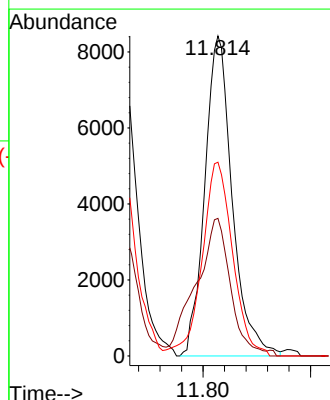
Tgt Ion:146 Resp: 14952

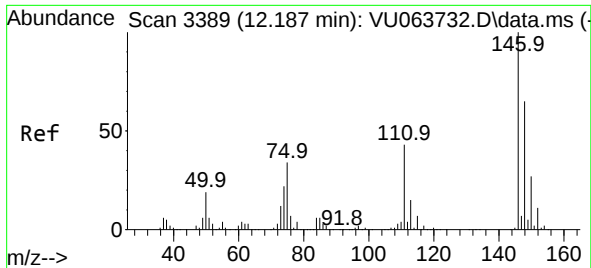
Ion Ratio Lower Upper

146 100

111 43.7 28.8 53.4

148 56.2 44.9 83.3





#67

1,2-Dichlorobenzene

Concen: 2.618 ug/L

RT: 12.187 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2025-08

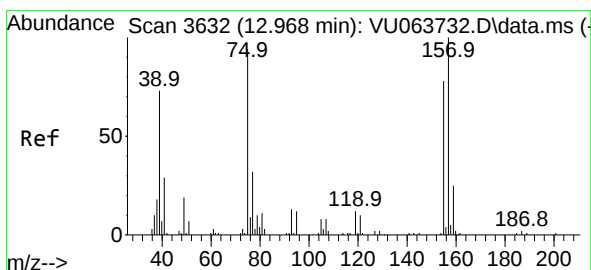
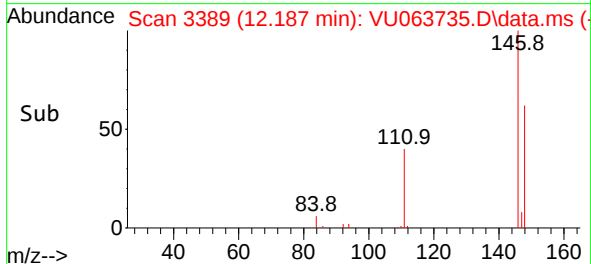
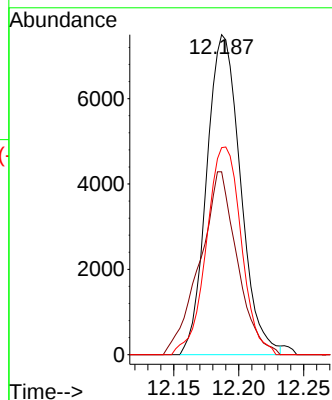
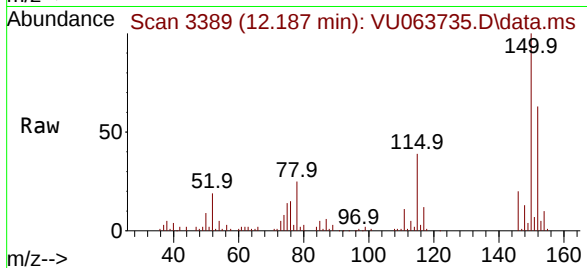
Tgt Ion:146 Resp: 13566

Ion Ratio Lower Upper

146 100

111 57.1 34.2 51.4#

148 64.7 49.6 74.4



#68

1,2-Dibromo-3-chloropropane

Concen: 1.908 ug/L

RT: 12.971 min Scan# 3633

Delta R.T. 0.003 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

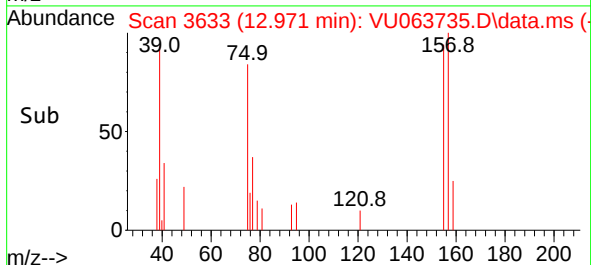
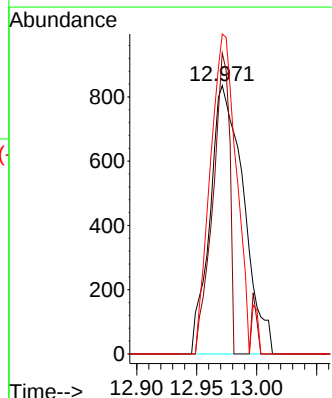
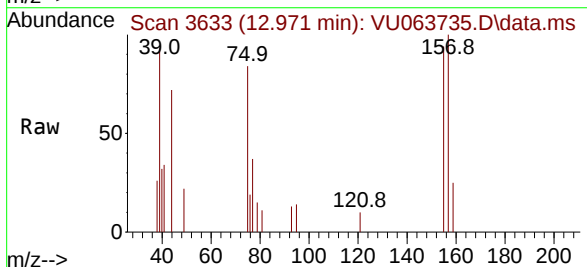
Tgt Ion: 75 Resp: 1625

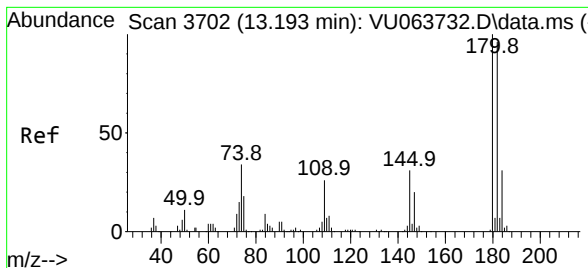
Ion Ratio Lower Upper

75 100

155 112.1 64.6 97.0#

157 119.3 78.8 118.2#





#69

1,3,5-Trichlorobenzene

Concen: 2.445 ug/L

RT: 13.196 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT4-2025-08

Tgt Ion:180 Resp: 8831

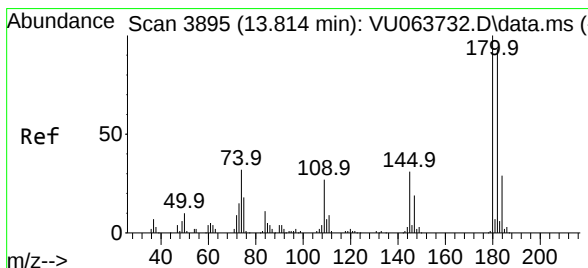
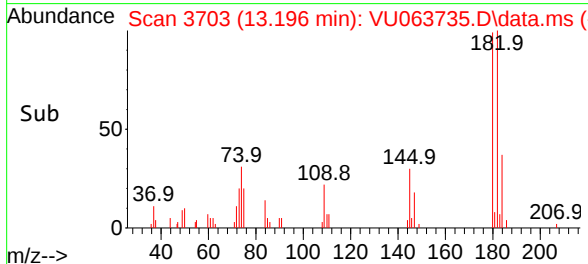
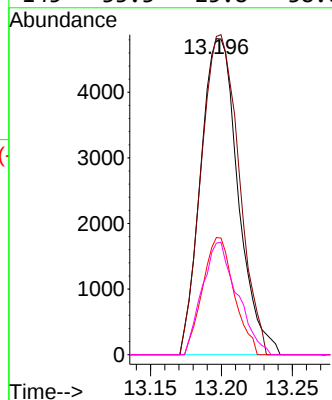
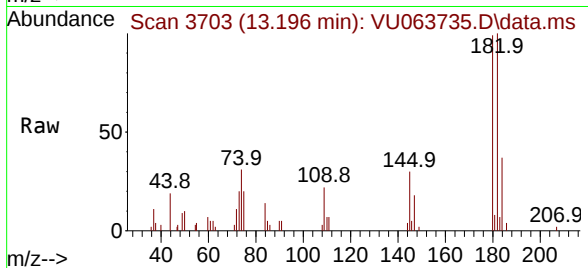
Ion Ratio Lower Upper

180 100

182 102.1 76.4 114.6

184 31.2 24.4 36.6

145 33.3 25.8 38.6



#70

1,2,4-trichlorobenzene

Concen: 2.745 ug/L

RT: 13.820 min Scan# 3897

Delta R.T. 0.007 min

Lab File: VU063735.D

Acq: 18 Nov 2025 11:46

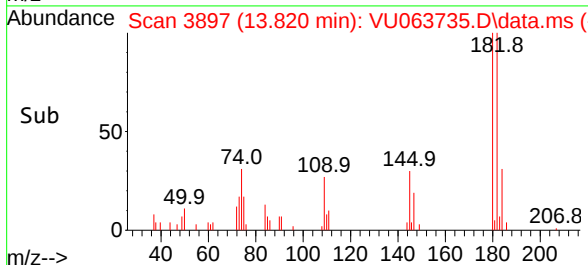
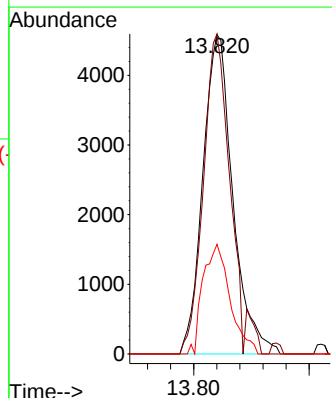
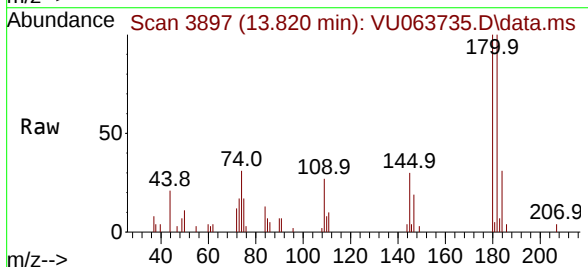
Tgt Ion:180 Resp: 8269

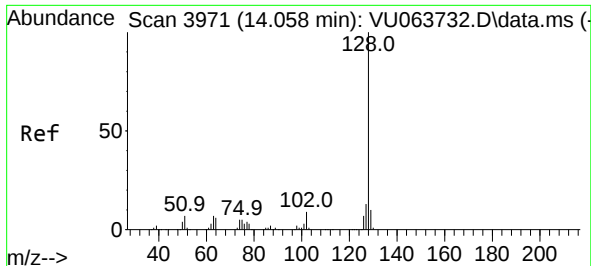
Ion Ratio Lower Upper

180 100

182 86.1 75.8 113.8

145 30.7 25.7 38.5

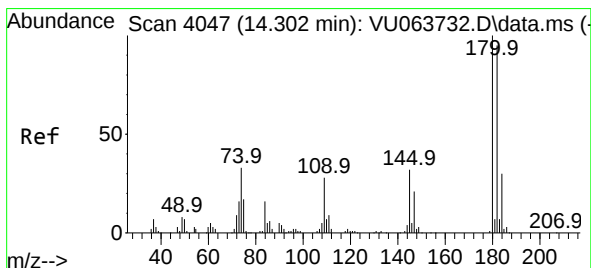
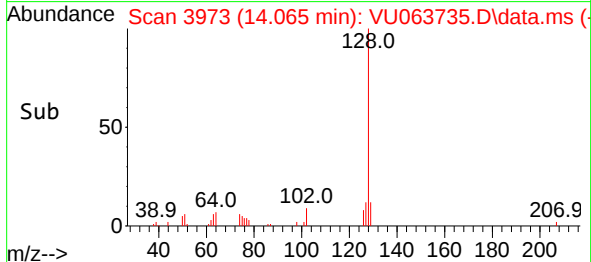
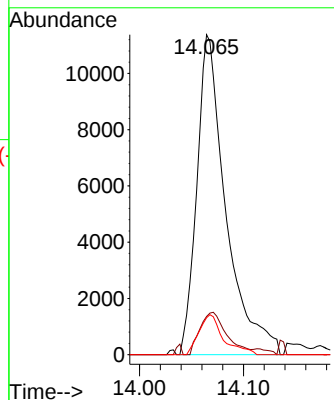
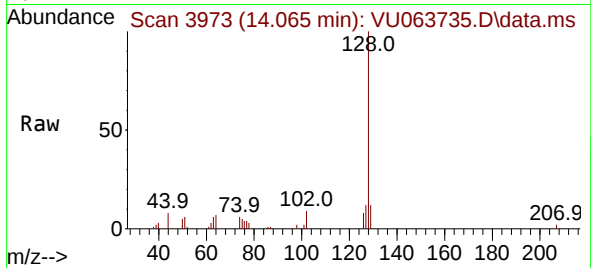




#71
Naphthalene
Concen: 2.753 ug/L
RT: 14.065 min Scan# 3971
Delta R.T. 0.007 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT4-2025-08

Tgt Ion:	128	Resp:	22066
Ion Ratio	Lower	Upper	
128	100		
127	12.2	10.3	15.5
129	10.5	8.7	13.1



#72
1,2,3-Trichlorobenzene
Concen: 2.449 ug/L
RT: 14.306 min Scan# 4048
Delta R.T. 0.003 min
Lab File: VU063735.D
Acq: 18 Nov 2025 11:46

Tgt Ion:	180	Resp:	6990
Ion Ratio	Lower	Upper	
180	100		
182	102.1	76.9	115.3
145	41.1	26.6	39.8#

