

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV111725\
 Data File : VV039393.D
 Acq On : 17 Nov 2025 15:41
 Operator : SY/MD
 Sample : Q3589-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT4-2025-07

Quant Time: Nov 18 01:44:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM111725WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 18 01:21:06 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	1107311	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.773	117	1100945	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.172	152	542577	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.291	65	504957	46.792	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	=	93.580%	
7) Chloroethane-d5	1.545	69	385585	47.857	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	95.720%	
11) 1,1-Dichloroethene-d2	2.069	65	210983	46.449	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	92.900%	
21) 2-Butanone-d5	3.786	46	518231	90.949	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	=	90.950%	
24) Chloroform-d	4.252	84	819221	45.806	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	91.620%	
26) 1,2-Dichloroethane-d4	4.940	65	526955	47.347	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	94.700%	
32) Benzene-d6	4.960	84	1619585	49.319	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	=	98.640%	
36) 1,2-Dichloropropane-d6	5.982	67	516885	50.433	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	=	100.860%	
41) Toluene-d8	7.236	98	1414702	46.646	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	93.300%	
43) trans-1,3-Dichloroprop...	7.545	79	235660	45.575	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	=	91.140%	
47) 2-Hexanone-d5	8.011	63	362899	92.689	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	=	92.690%	
56) 1,1,2,2-Tetrachloroeth...	10.140	84	693565	46.297	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	=	92.600%	
66) 1,2-Dichlorobenzene-d4	11.548	152	556676	54.621	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	=	109.240%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.121	85	16772	2.159	ug/L	97
3) Chloromethane	1.230	50	19528	2.293	ug/L	91
5) Vinyl chloride	1.294	62	22197	2.313	ug/L #	53
6) Bromomethane	1.500	94	11934	2.233	ug/L	96
8) Chloroethane	1.561	64	12372	1.959	ug/L	95
9) Trichlorofluoromethane	1.725	101	33781	2.176	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.082	101	24766	2.626	ug/L #	83
12) 1,1-Dichloroethene	2.079	96	24328m	2.996	ug/L	
13) Acetone	2.121	43	31435	4.075	ug/L	99
14) Carbon disulfide	2.256	76	50279	2.181	ug/L	99
15) Methyl Acetate	2.394	43	21695m	2.164	ug/L	
16) Methylene chloride	2.461	84	23596	2.481	ug/L	93
17) trans-1,2-Dichloroethene	2.712	96	15914	1.879	ug/L	97
18) Methyl tert-butyl Ether	2.712	73	45861	1.774	ug/L #	84
19) 1,1-Dichloroethane	3.127	63	33435	1.992	ug/L	96
20) cis-1,2-Dichloroethene	3.828	96	17864	1.959	ug/L	97
22) 2-Butanone	3.924	43	37958m	4.946	ug/L	
23) Bromochloromethane	4.165	128	11860	2.202	ug/L	89
25) Chloroform	4.278	83	53526	2.921	ug/L	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.059	62	30532m	2.260	ug/L	
29) Cyclohexane	4.583	56	25837m	1.983	ug/L	
30) 1,1,1-Trichloroethane	4.519	97	33835m	2.173	ug/L	
31) Carbon tetrachloride	4.741	117	31843m	2.221	ug/L	
33) Benzene	5.014	78	76181m	2.216	ug/L	
34) Trichloroethene	5.841	95	20975m	2.259	ug/L	
35) Methylcyclohexane	6.046	83	27615	2.023	ug/L #	92
37) 1,2-Dichloropropane	6.098	63	18727	1.926	ug/L #	94
38) Bromodichloromethane	6.442	83	25909	1.917	ug/L #	96
39) cis-1,3-Dichloropropene	6.960	75	30582	2.043	ug/L	99
40) 4-Methyl-2-pentanone	7.162	43	49989m	4.090	ug/L	
42) Toluene	7.320	91	76716	2.106	ug/L	96
44) trans-1,3-Dichloropropene	7.583	75	32362m	2.243	ug/L	
45) 1,1,2-Trichloroethane	7.770	97	21021	2.079	ug/L	94
46) Tetrachloroethene	7.902	164	18166	2.129	ug/L	96
48) 2-Hexanone	8.082	43	49837m	4.881	ug/L	
49) Dibromochloromethane	8.172	129	23652	2.048	ug/L	92
50) 1,2-Dibromoethane	8.284	107	21974	2.017	ug/L #	98
51) Chlorobenzene	8.808	112	54197	2.075	ug/L	98
52) Ethylbenzene	8.943	91	69821	1.763	ug/L	91
53) m,p-Xylene	9.069	106	24520	1.618	ug/L	100
54) o-Xylene	9.474	106	23410	1.616	ug/L	94
55) Styrene	9.503	104	41588m	1.633	ug/L	
57) 1,1,2,2-Tetrachloroethane	10.165	83	36937	2.274	ug/L #	98
59) Bromoform	9.660	173	18871	2.273	ug/L	98
60) Isopropylbenzene	9.860	105	61059	1.849	ug/L	98
61) 1,2,3-Trichloropropane	10.201	75	25177	2.380	ug/L	99
62) 1,3,5-Trimethylbenzene	10.467	105	45832	1.777	ug/L	96
63) 1,2,4-Trimethylbenzene	10.844	105	42908	1.692	ug/L	98
64) 1,3-Dichlorobenzene	11.114	146	38074	2.118	ug/L	99
65) 1,4-Dichlorobenzene	11.201	146	42109	2.174	ug/L	98
67) 1,2-Dichlorobenzene	11.567	146	45201	2.517	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.361	75	6347	2.137	ug/L	87
69) 1,3,5-Trichlorobenzene	12.577	180	26133	2.041	ug/L	93
70) 1,2,4-trichlorobenzene	13.194	180	22622	2.027	ug/L	97
71) Naphthalene	13.435	128	55739m	1.774	ug/L	
72) 1,2,3-Trichlorobenzene	13.673	180	22597	1.954	ug/L	98

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

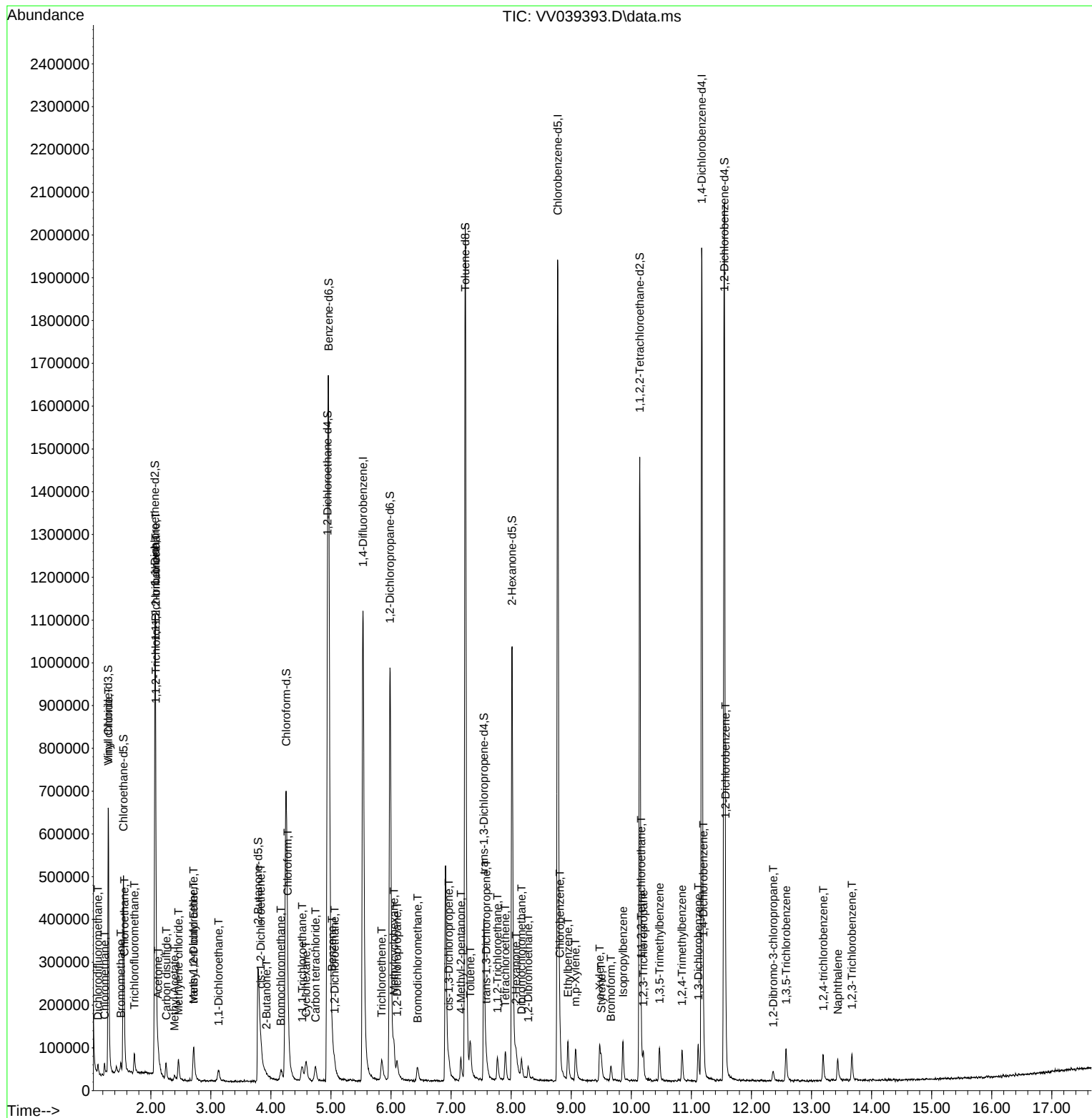
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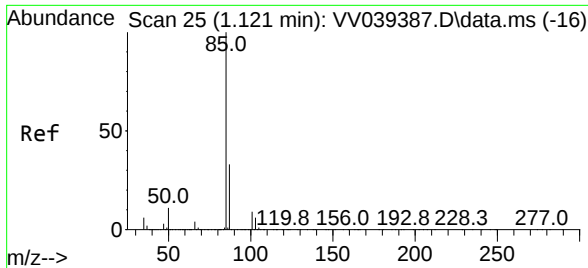
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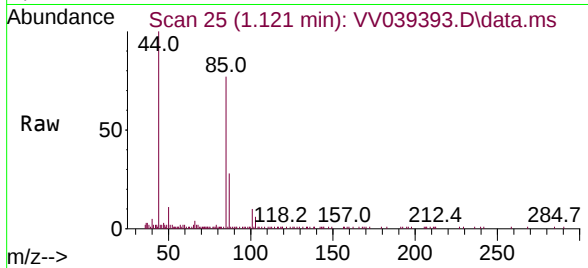
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025





#2
 Dichlorodifluoromethane
 Concen: 2.159 ug/L
 RT: 1.121 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VV039393.D
 Acq: 17 Nov 2025 15:41

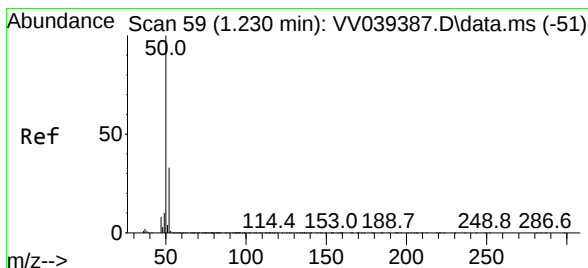
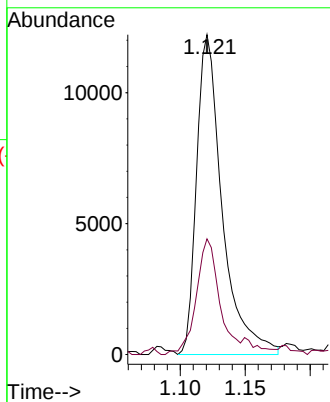
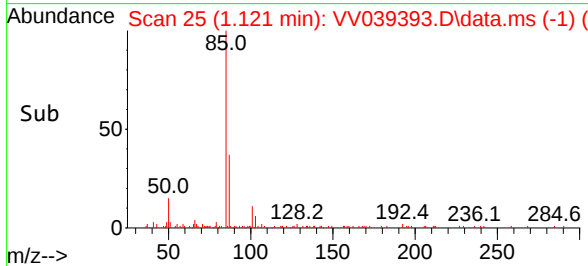
Instrument : MSVOA_V
 ClientSampleId :
 MDL-WATER-QT4-2025-07



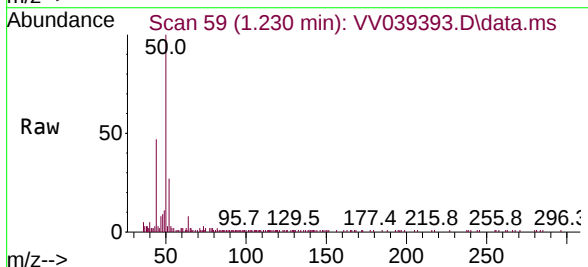
Tgt Ion: 85 Resp: 16772
 Ion Ratio Lower Upper
 85 100
 87 30.9 26.1 39.1

Manual Integrations
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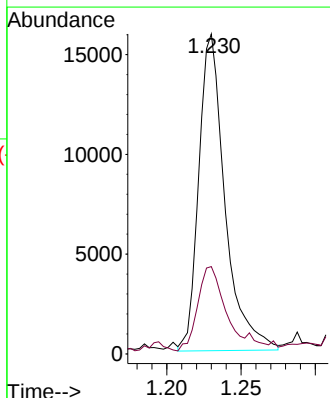
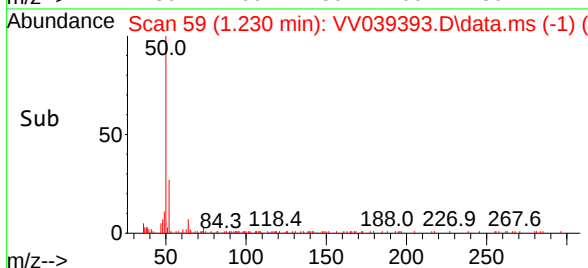
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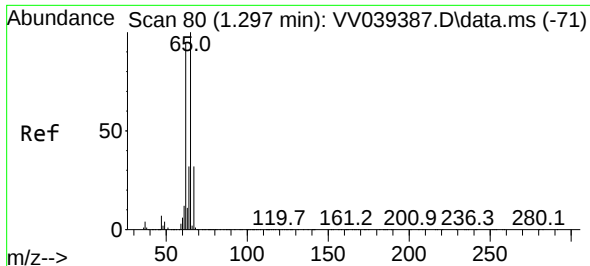


#3
 Chloromethane
 Concen: 2.293 ug/L
 RT: 1.230 min Scan# 59
 Delta R.T. -0.000 min
 Lab File: VV039393.D
 Acq: 17 Nov 2025 15:41



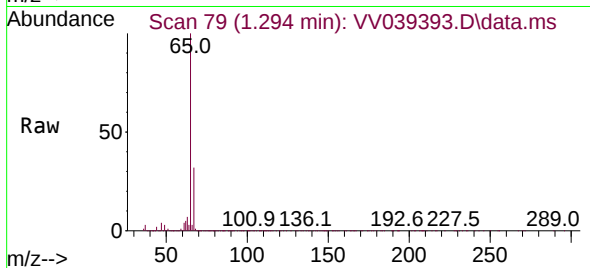
Tgt Ion: 50 Resp: 19528
 Ion Ratio Lower Upper
 50 100
 52 27.3 22.7 42.3





#5
 Vinyl chloride
 Concen: 2.313 ug/L
 RT: 1.294 min Scan# 79
 Delta R.T. -0.003 min
 Lab File: VV039393.D
 Acq: 17 Nov 2025 15:41

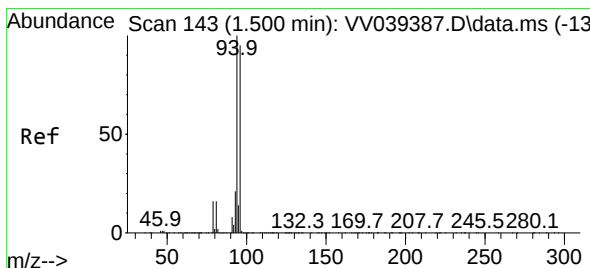
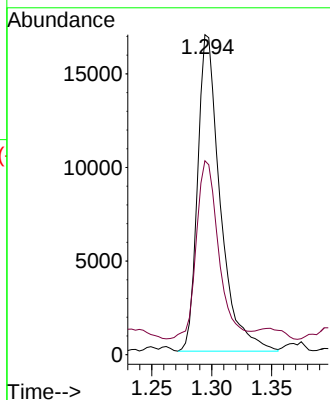
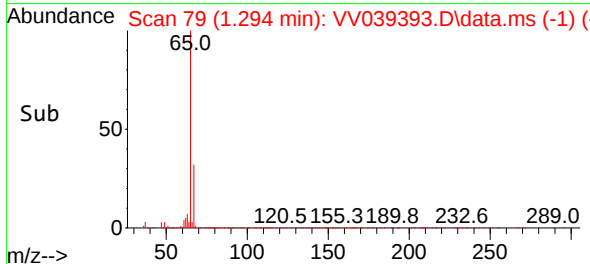
Instrument : MSVOA_V
 ClientSampleId : MDL-WATER-QT4-2025-07



Tgt Ion: 62 Resp: 22197
 Ion Ratio Lower Upper
 62 100
 64 60.6 23.7 44.1

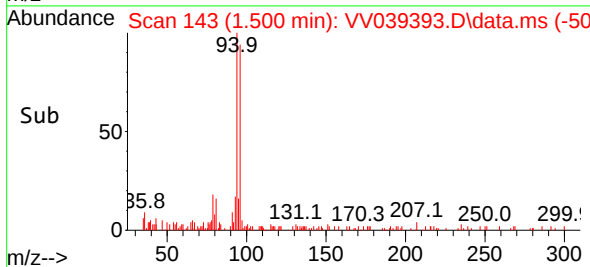
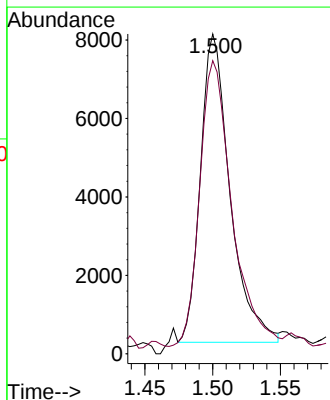
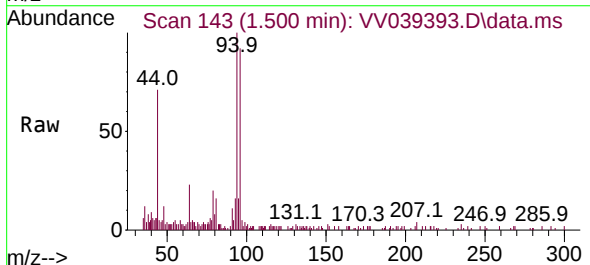
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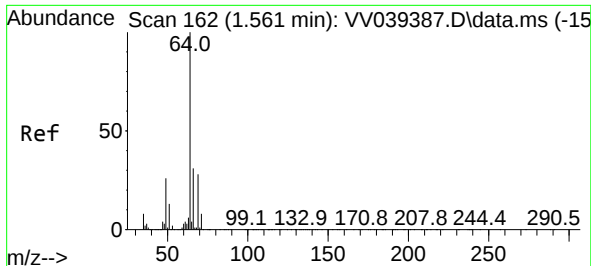
Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#6
 Bromomethane
 Concen: 2.233 ug/L
 RT: 1.500 min Scan# 143
 Delta R.T. -0.000 min
 Lab File: VV039393.D
 Acq: 17 Nov 2025 15:41

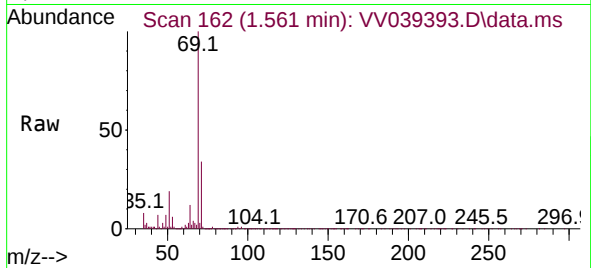
Tgt Ion: 94 Resp: 11934
 Ion Ratio Lower Upper
 94 100
 96 91.6 66.6 123.8





#8
Chloroethane
Concen: 1.959 ug/L
RT: 1.561 min Scan# 162
Delta R.T. -0.000 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

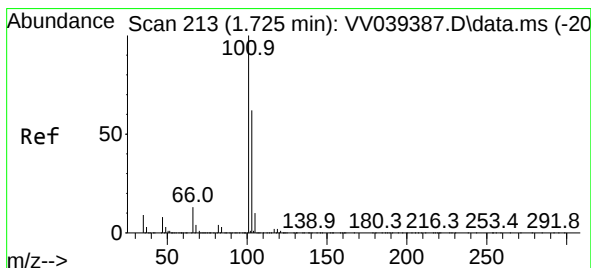
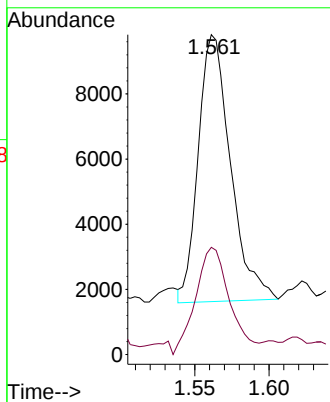
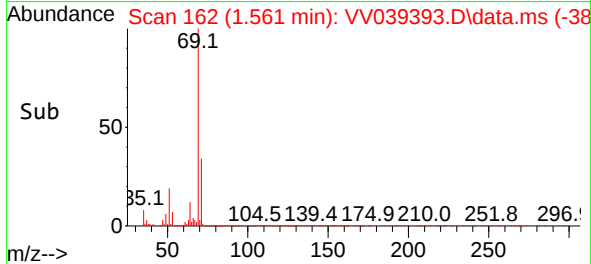
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2025-07



Tgt Ion: 64 Resp: 12372
Ion Ratio Lower Upper
64 100
66 33.5 21.6 40.2

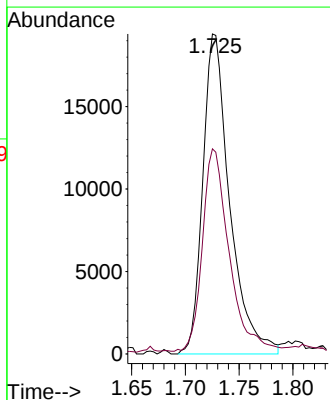
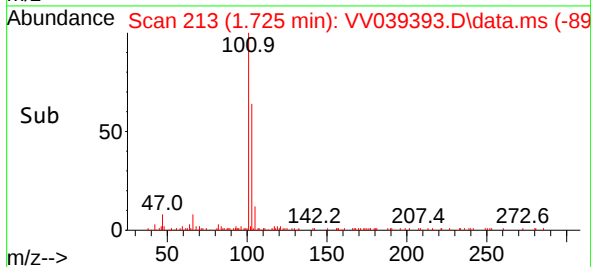
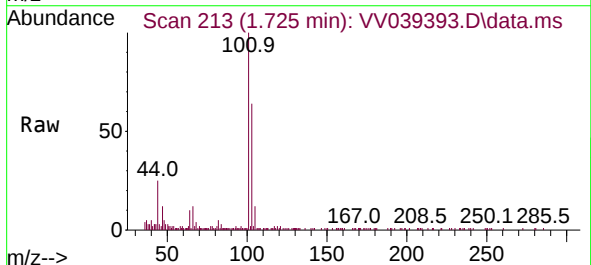
Manual Integrations
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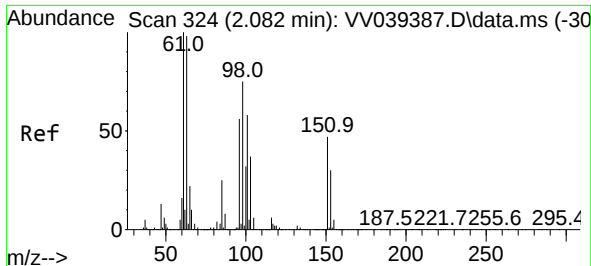
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#9
Trichlorofluoromethane
Concen: 2.176 ug/L
RT: 1.725 min Scan# 213
Delta R.T. -0.000 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Tgt Ion:101 Resp: 33781
Ion Ratio Lower Upper
101 100
103 62.6 51.0 76.6





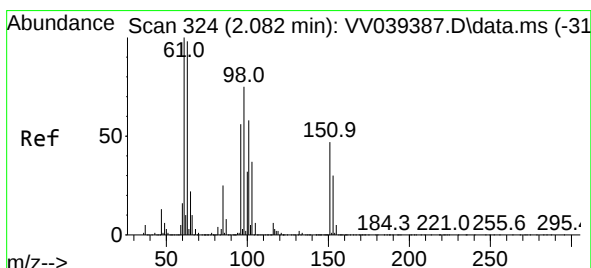
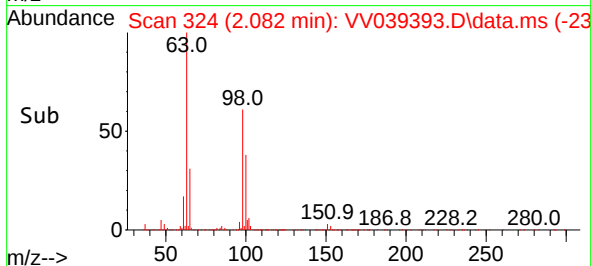
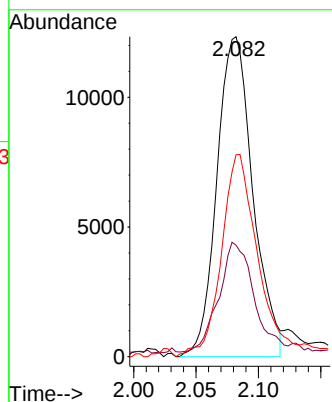
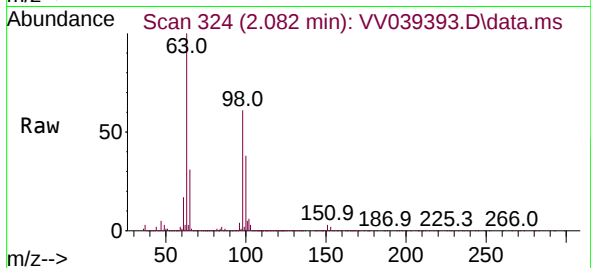
#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 2.626 ug/L
 RT: 2.082 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV039393.D
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Tgt Ion: 101 Resp: 24766
 Ion Ratio Lower Upper
 101 100
 85 33.4 33.7 50.5
 151 63.5 63.6 95.4

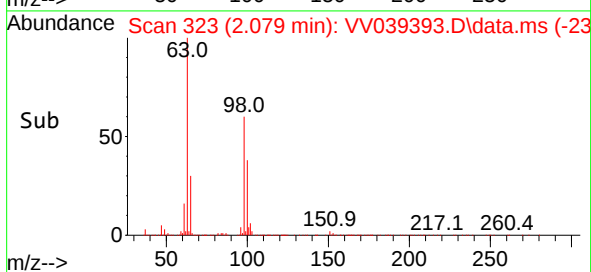
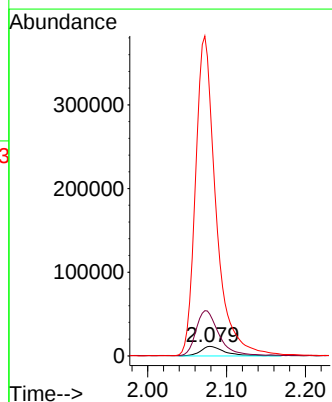
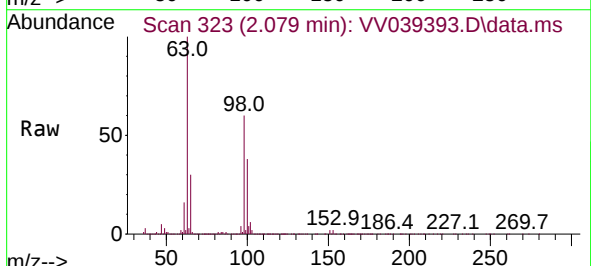
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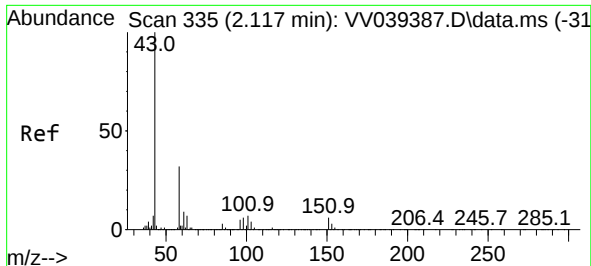
Reviewed By :Amit Patel 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#12
 1,1-Dichloroethene
 Concen: 2.996 ug/L m
 RT: 2.079 min Scan# 323
 Delta R.T. -0.003 min
 Lab File: VV039393.D
 Acq: 17 Nov 2025 15:41

Tgt Ion: 96 Resp: 24328
 Ion Ratio Lower Upper
 96 100
 61 437.8 124.3 230.8#
 63 2710.3 121.8 226.2#





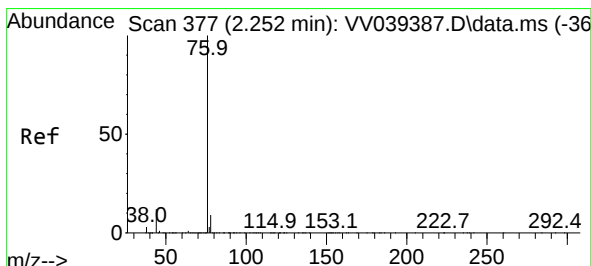
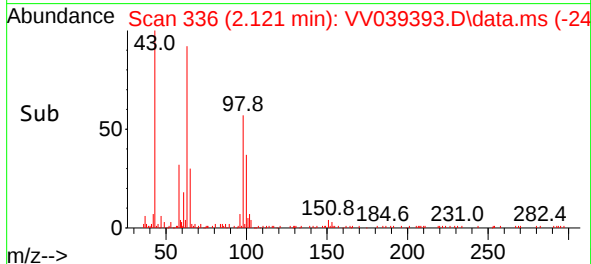
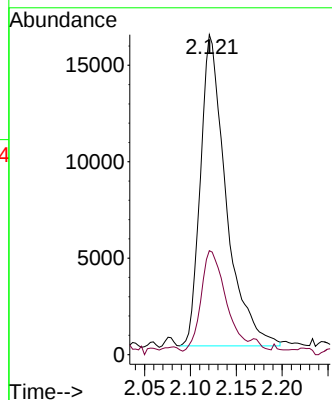
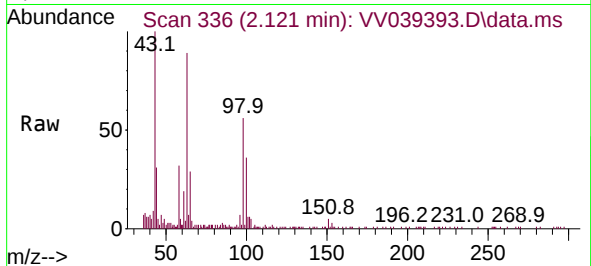
#13
Acetone
Concen: 4.075 ug/L
RT: 2.121 min Scan# 335
Delta R.T. 0.003 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Instrument :
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ClientSampleId :
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Tgt Ion: 43 Resp: 31435
Ion Ratio Lower Upper
43 100
58 31.1 0.0 63.2

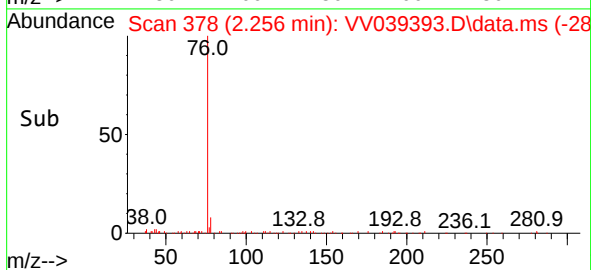
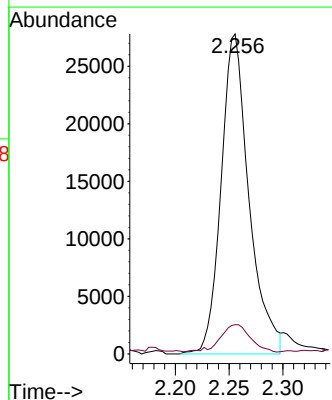
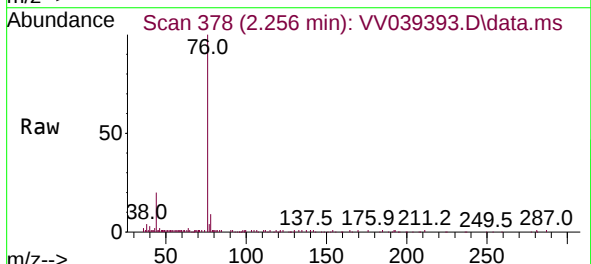
Manual Integrations
APPROVED

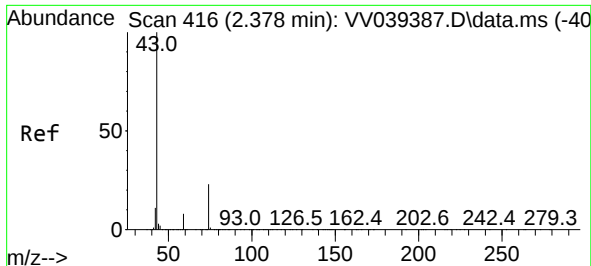
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#14
Carbon disulfide
Concen: 2.181 ug/L
RT: 2.256 min Scan# 378
Delta R.T. 0.003 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

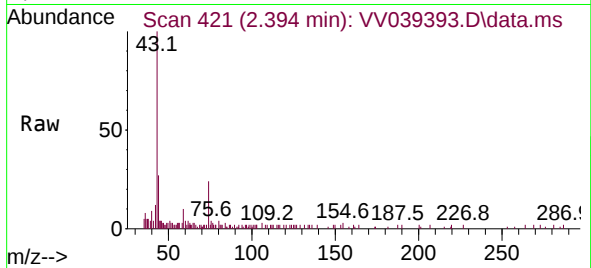
Tgt Ion: 76 Resp: 50279
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.2





#15
Methyl Acetate
Concen: 2.164 ug/L m
RT: 2.394 min Scan# 41
Delta R.T. 0.016 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

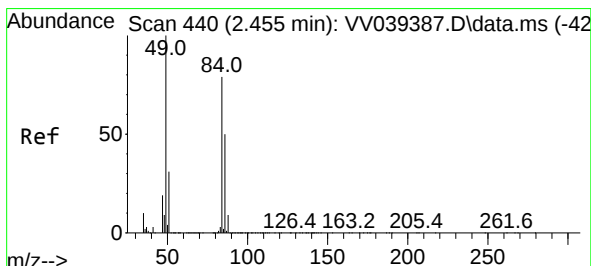
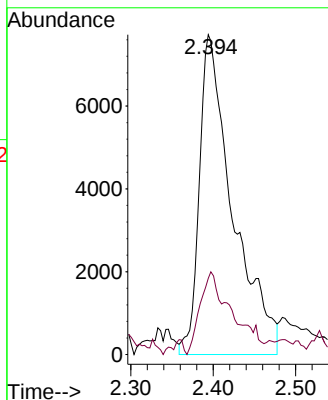
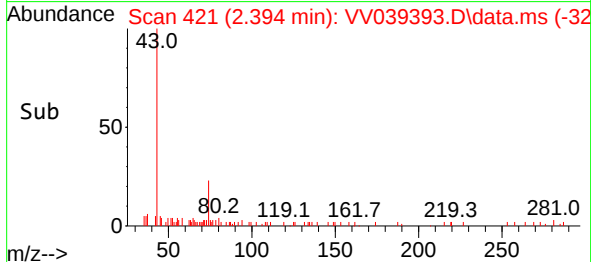
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2025-07



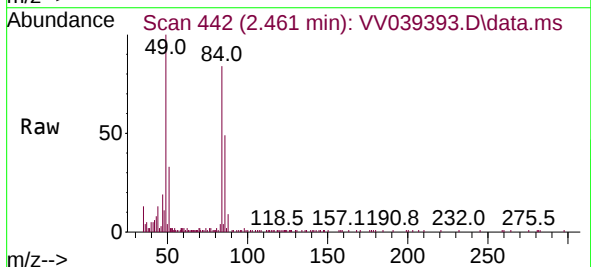
Tgt Ion: 43 Resp: 21695
Ion Ratio Lower Upper
43 100
74 14.5 18.7 28.1

Manual Integrations
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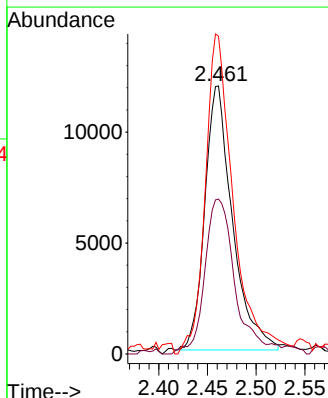
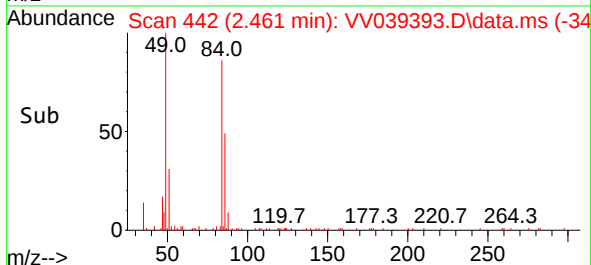
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

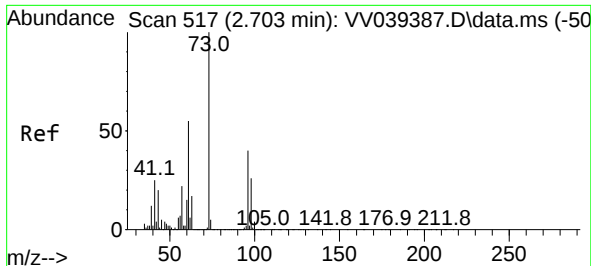


#16
Methylene chloride
Concen: 2.481 ug/L
RT: 2.461 min Scan# 442
Delta R.T. 0.006 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41



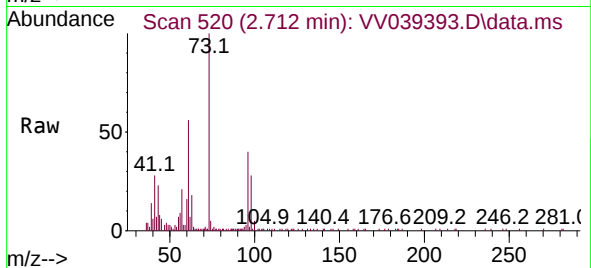
Tgt Ion: 84 Resp: 23596
Ion Ratio Lower Upper
84 100
86 57.8 44.4 82.5
49 118.6 88.2 163.8





#17
trans-1,2-Dichloroethene
Concen: 1.879 ug/L
RT: 2.712 min Scan# 517
Delta R.T. 0.010 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

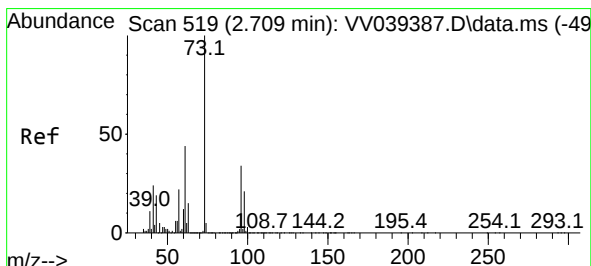
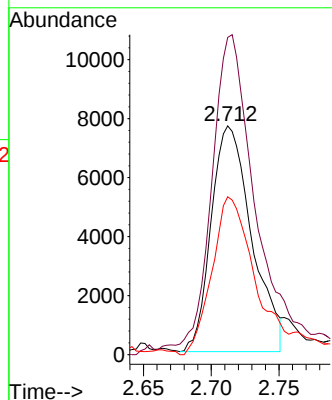
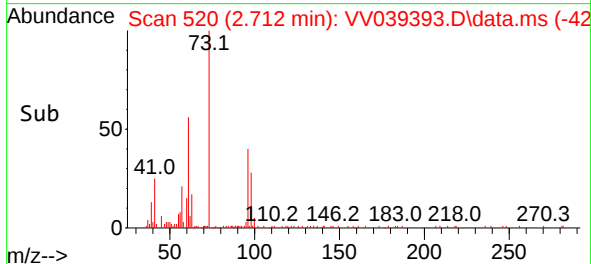
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2025-07



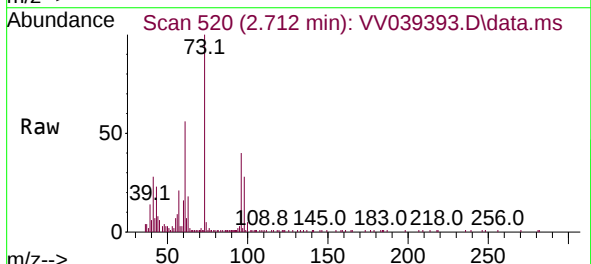
Tgt Ion: 96 Resp: 15914
Ion Ratio Lower Upper
96 100
61 138.7 96.1 178.5
98 69.0 45.0 83.6

Manual Integrations
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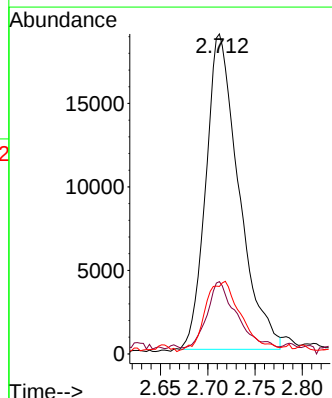
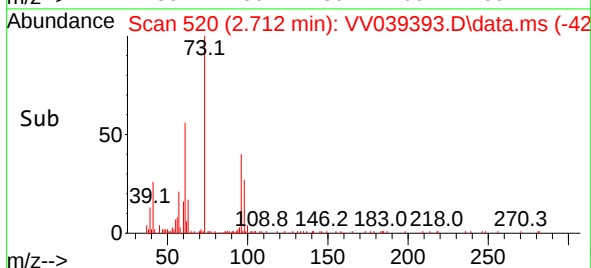
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

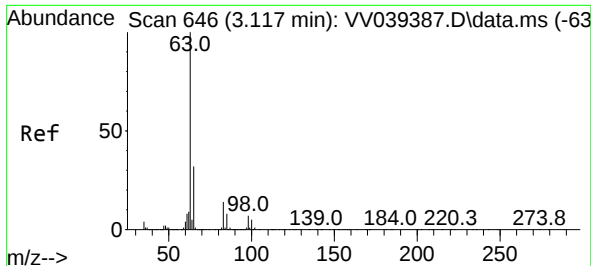


#18
Methyl tert-butyl Ether
Concen: 1.774 ug/L
RT: 2.712 min Scan# 520
Delta R.T. 0.003 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41



Tgt Ion: 73 Resp: 45861
Ion Ratio Lower Upper
73 100
43 18.1 15.4 23.2
57 8.9 17.6 26.4#





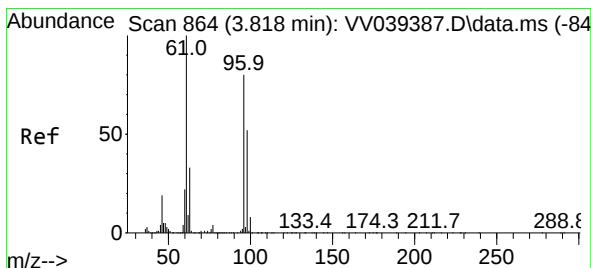
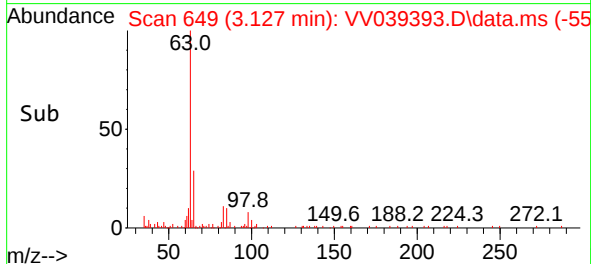
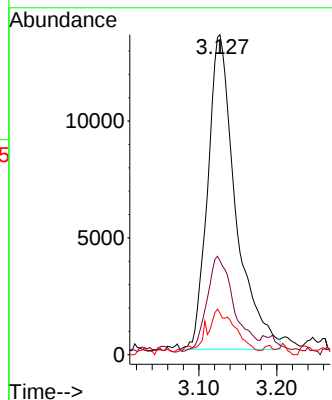
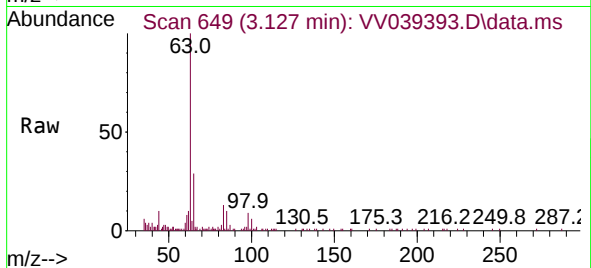
#19
1,1-Dichloroethane
Concen: 1.992 ug/L
RT: 3.127 min Scan# 646
Delta R.T. 0.010 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2025-07

Tgt Ion: 63 Resp: 33435
Ion Ratio Lower Upper
63 100
65 29.4 22.4 41.6
83 13.0 9.6 17.8

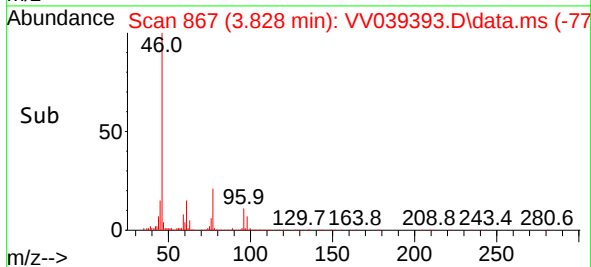
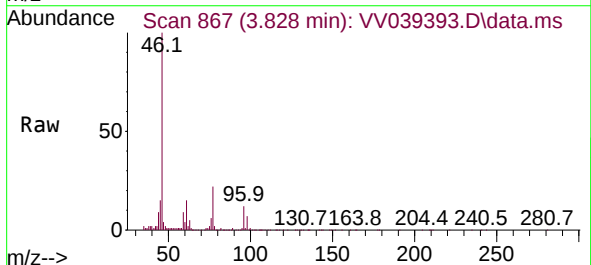
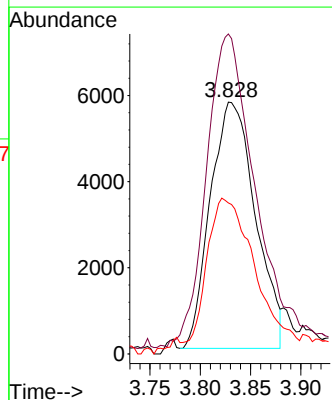
Manual Integrations
APPROVED

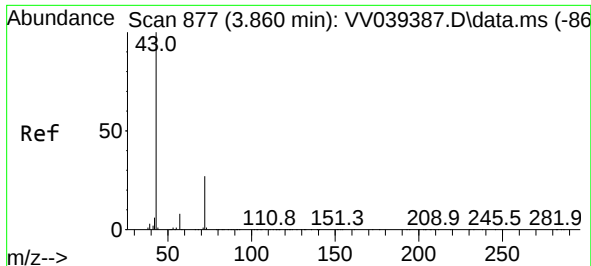
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
cis-1,2-Dichloroethene
Concen: 1.959 ug/L
RT: 3.828 min Scan# 867
Delta R.T. 0.010 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

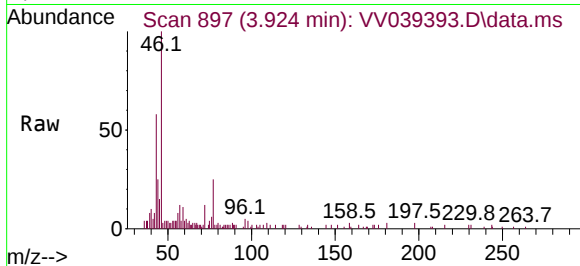
Tgt Ion: 96 Resp: 17864
Ion Ratio Lower Upper
96 100
61 127.1 87.3 162.1
98 60.0 45.1 83.7





#22
2-Butanone
Concen: 4.946 ug/L m
RT: 3.924 min Scan# 89
Delta R.T. 0.064 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

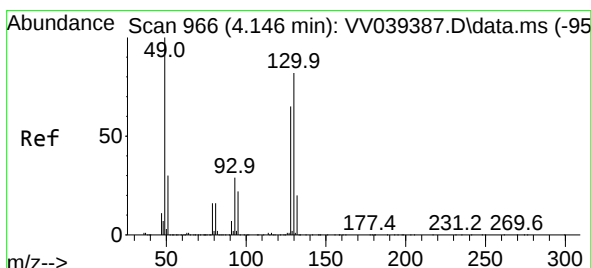
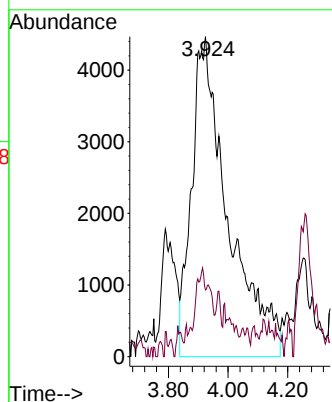
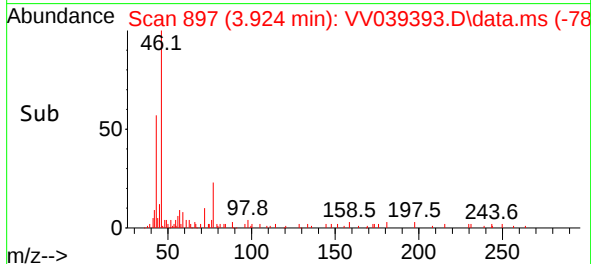
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2025-07



Tgt Ion: 43 Resp: 37958
Ion Ratio Lower Upper
43 100
72 0.3 13.3 39.9

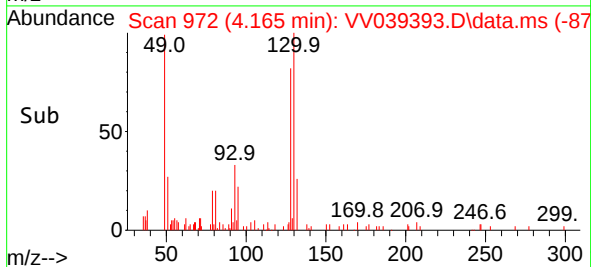
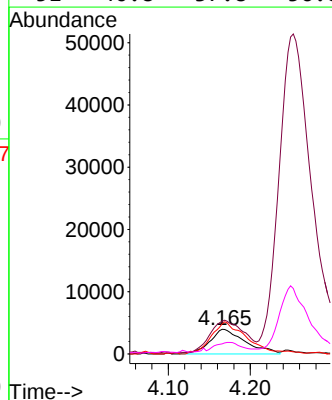
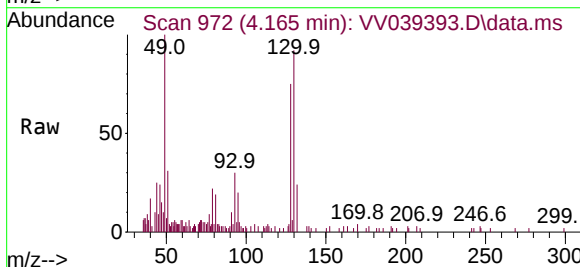
Manual Integrations
APPROVED

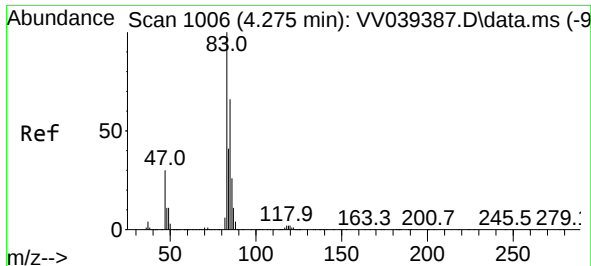
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#23
Bromochloromethane
Concen: 2.202 ug/L
RT: 4.165 min Scan# 972
Delta R.T. 0.019 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Tgt Ion:128 Resp: 11860
Ion Ratio Lower Upper
128 100
49 132.5 108.6 201.6
130 121.8 89.2 165.6
51 40.8 37.8 56.8





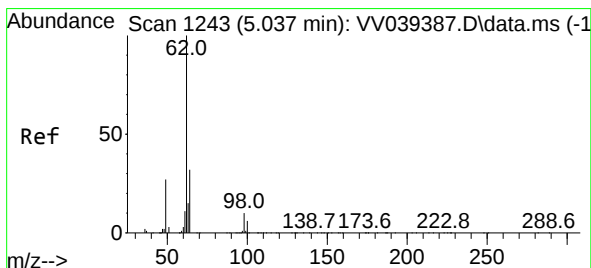
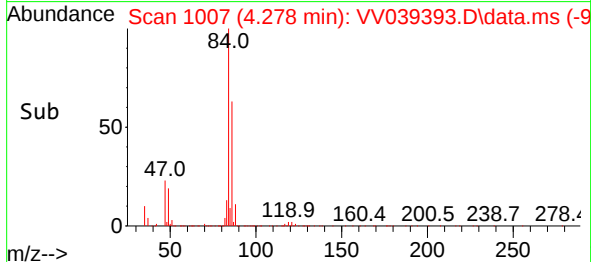
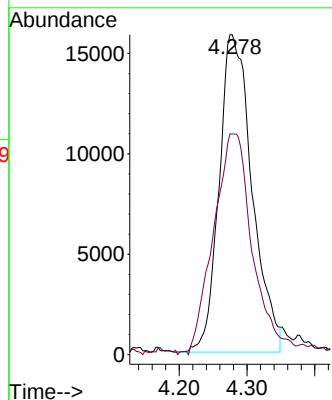
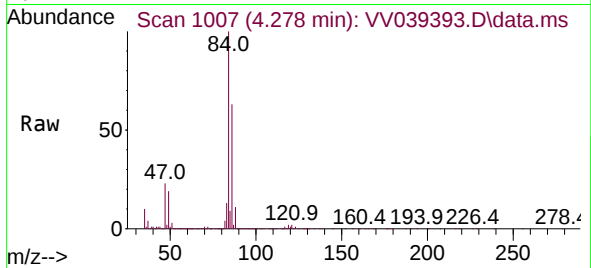
#25
Chloroform
Concen: 2.921 ug/L
RT: 4.278 min Scan# 1006
Delta R.T. 0.003 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2025-07

Tgt Ion: 83 Resp: 53526
Ion Ratio Lower Upper
83 100
85 69.0 46.0 85.4

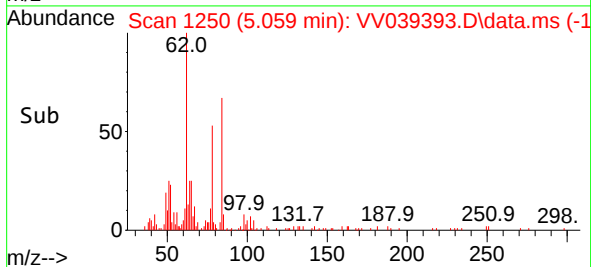
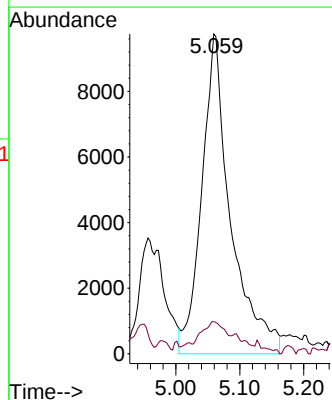
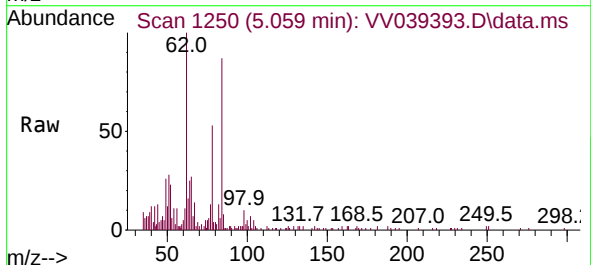
Manual Integrations
APPROVED

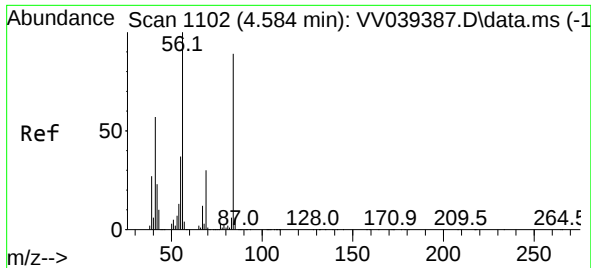
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#27
1,2-Dichloroethane
Concen: 2.260 ug/L m
RT: 5.059 min Scan# 1250
Delta R.T. 0.022 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

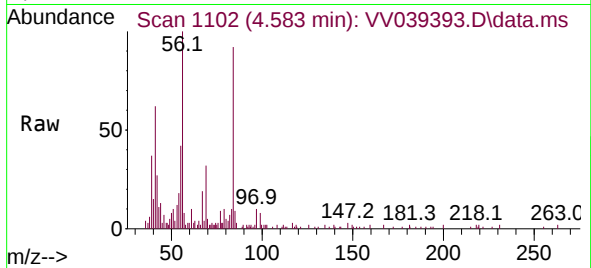
Tgt Ion: 62 Resp: 30532
Ion Ratio Lower Upper
62 100
98 10.1 7.7 11.5





#29
Cyclohexane
Concen: 1.983 ug/L m
RT: 4.583 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

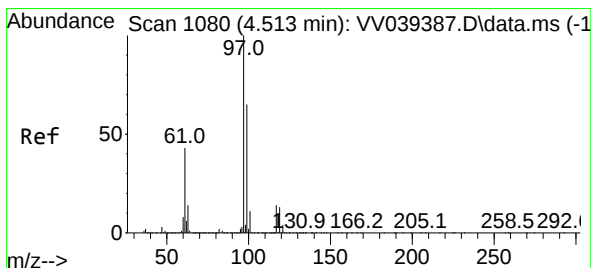
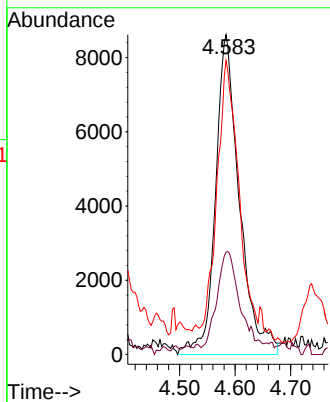
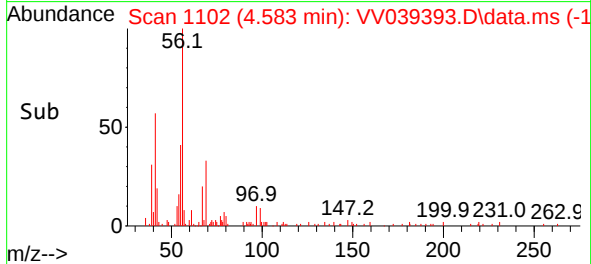
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2025-07



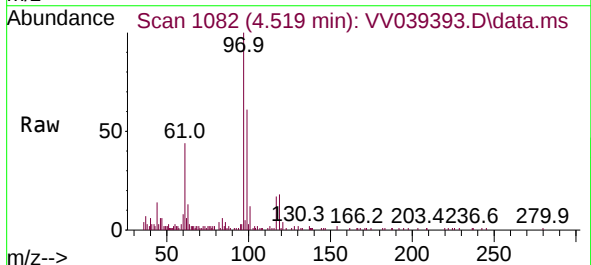
Tgt Ion: 56 Resp: 25837
Ion Ratio Lower Upper
56 100
69 26.1 24.1 36.1
84 76.9 70.7 106.1

Manual Integrations
APPROVED

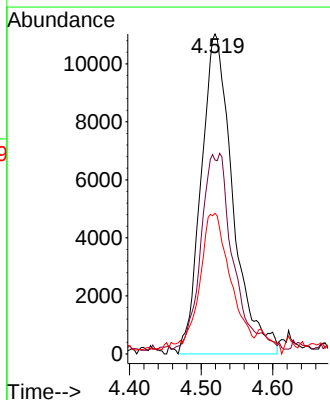
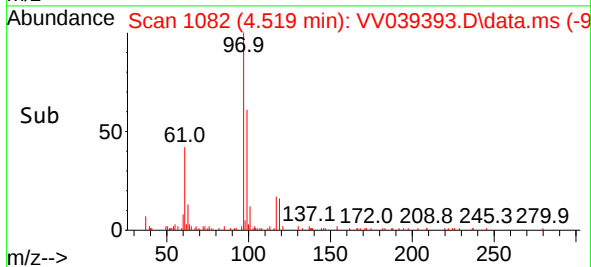
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

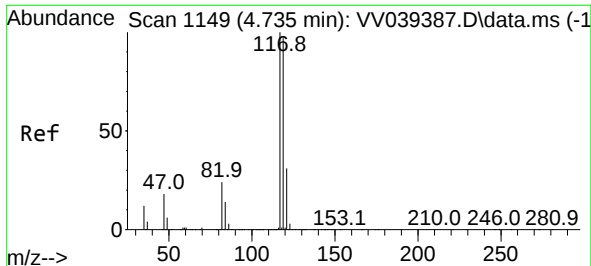


#30
1,1,1-Trichloroethane
Concen: 2.173 ug/L m
RT: 4.519 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41



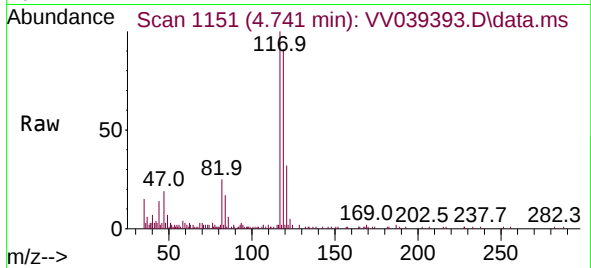
Tgt Ion: 97 Resp: 33835
Ion Ratio Lower Upper
97 100
99 0.3 51.6 77.4#
61 0.2 34.5 51.7#





#31
Carbon tetrachloride
Concen: 2.221 ug/L m
RT: 4.741 min Scan# 1149
Delta R.T. 0.006 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

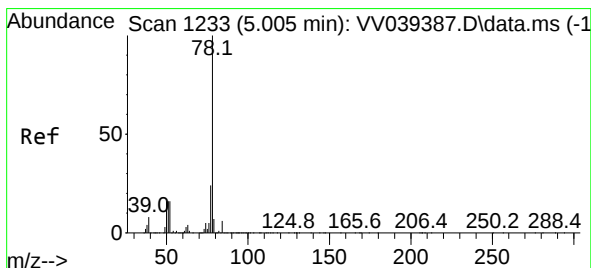
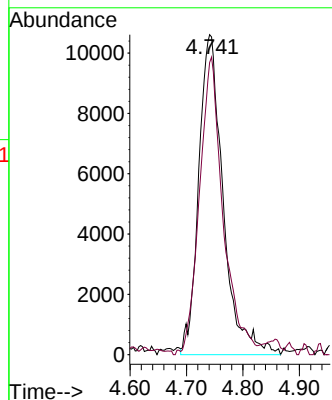
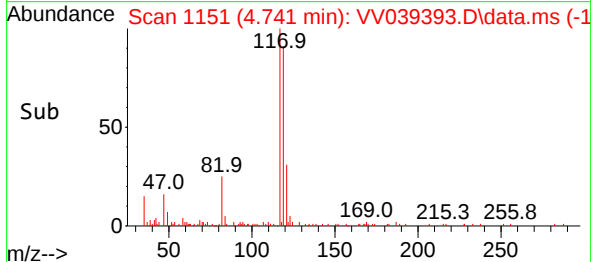
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2025-07



Tgt Ion: 117 Resp: 31843
Ion Ratio Lower Upper
117 100
119 85.2 76.7 115.1

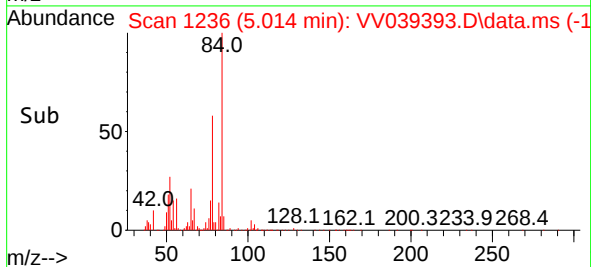
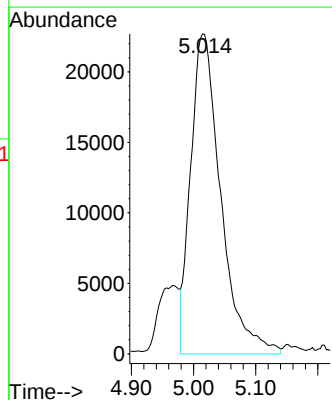
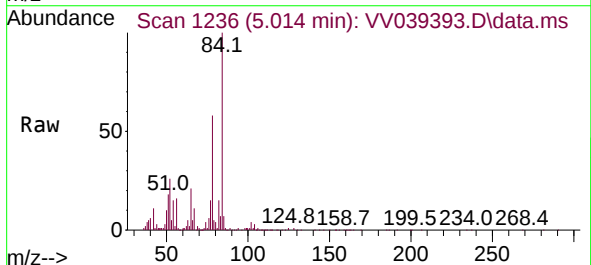
Manual Integrations
APPROVED

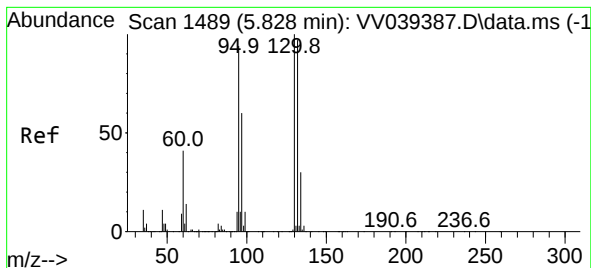
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
Benzene
Concen: 2.216 ug/L m
RT: 5.014 min Scan# 1236
Delta R.T. 0.010 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Tgt Ion: 78 Resp: 76181





#34

Trichloroethene

Concen: 2.259 ug/L

RT: 5.841 min Scan# 1489

Delta R.T. 0.013 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

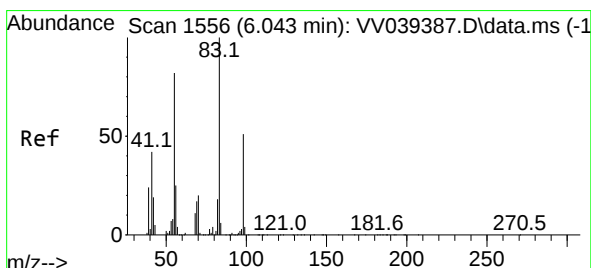
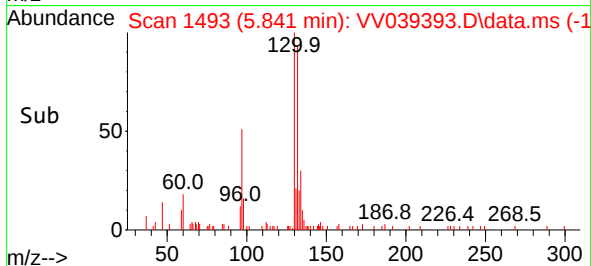
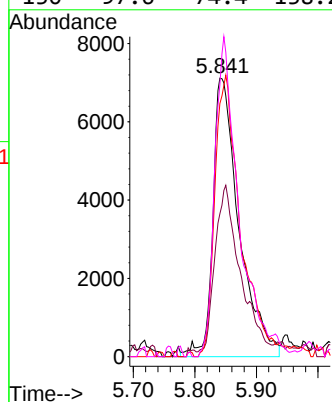
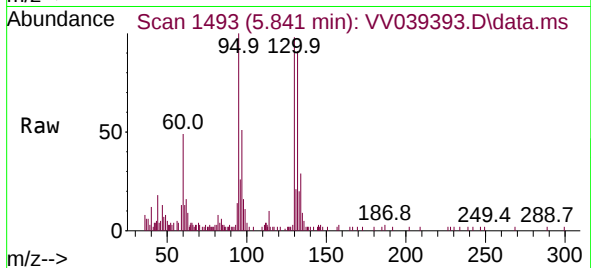
Tgt Ion	95	Resp:	20975
Ion Ratio	Lower	Upper	
95	100		
97	51.3	44.4	82.5
132	90.9	71.9	133.5
130	97.6	74.4	138.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#35

Methylcyclohexane

Concen: 2.023 ug/L

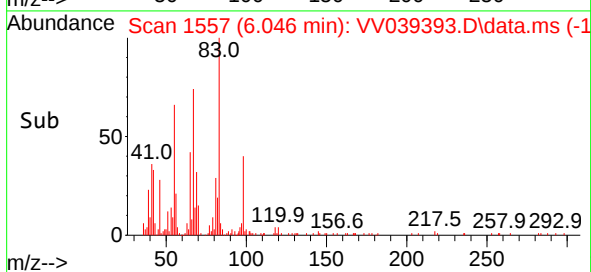
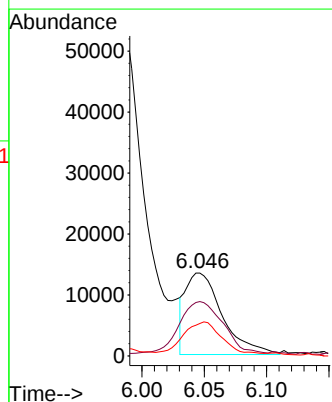
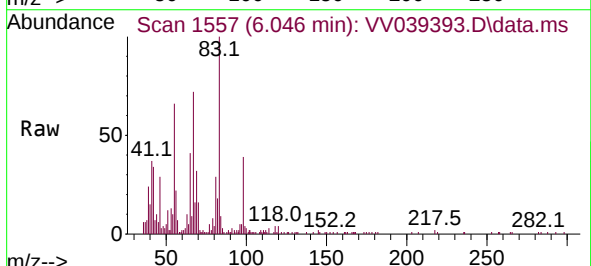
RT: 6.046 min Scan# 1557

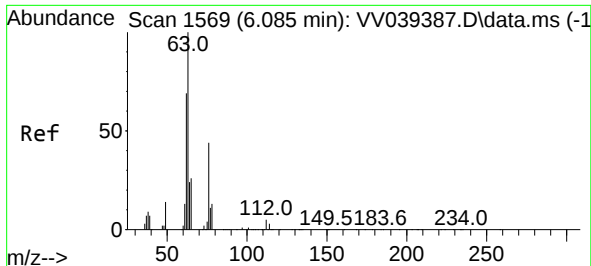
Delta R.T. 0.003 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Tgt Ion	83	Resp:	27615
Ion Ratio	Lower	Upper	
83	100		
55	79.6	62.5	93.7
98	36.3	39.2	58.8#





#37

1,2-Dichloropropane

Concen: 1.926 ug/L

RT: 6.098 min Scan# 11

Delta R.T. 0.013 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

Tgt Ion: 63 Resp: 1872

Ion Ratio Lower Upper

63 100

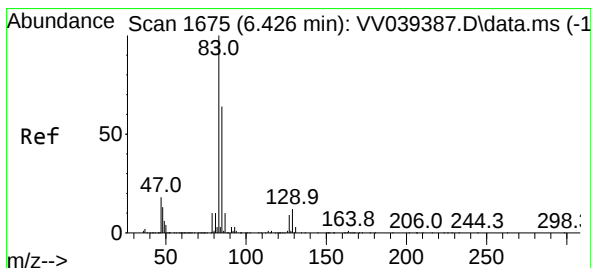
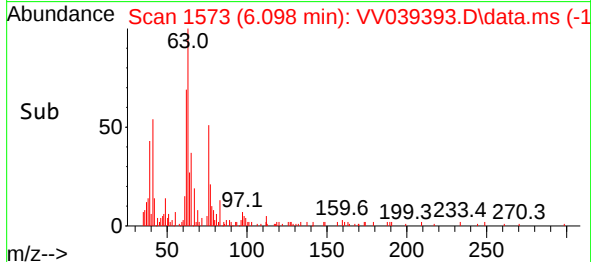
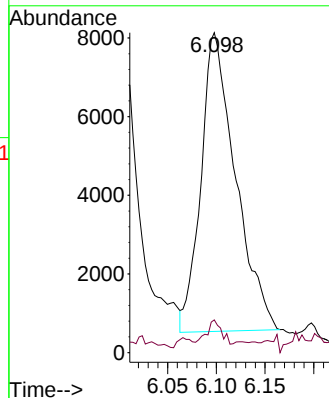
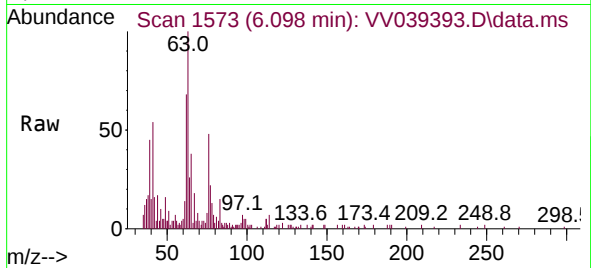
112 2.5 3.7 5.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#38

Bromodichloromethane

Concen: 1.917 ug/L

RT: 6.442 min Scan# 1680

Delta R.T. 0.016 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

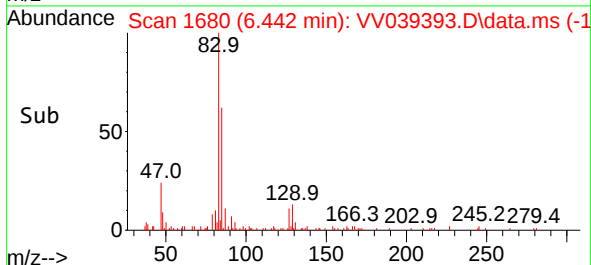
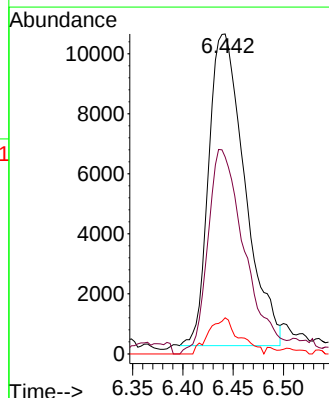
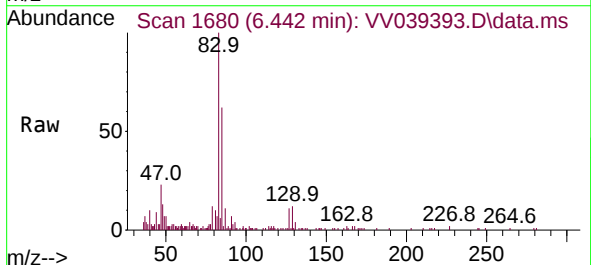
Tgt Ion: 83 Resp: 25909

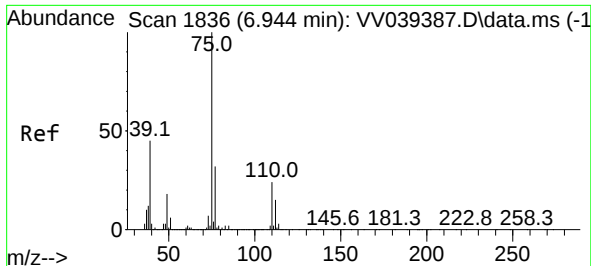
Ion Ratio Lower Upper

83 100

85 61.5 44.9 83.5

127 11.3 7.4 11.0





#39

cis-1,3-Dichloropropene

Concen: 2.043 ug/L

RT: 6.960 min Scan# 1836

Delta R.T. 0.016 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

Tgt Ion: 75 Resp: 30582

Ion Ratio Lower Upper

75 100

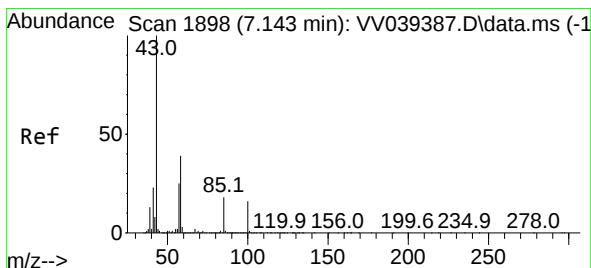
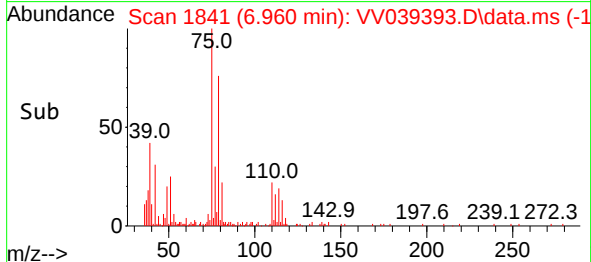
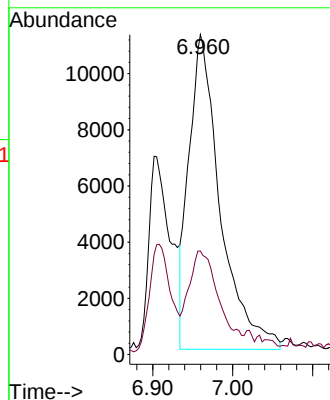
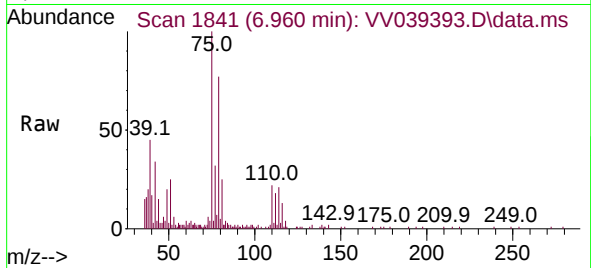
77 32.4 22.3 41.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#40

4-Methyl-2-pentanone

Concen: 4.090 ug/L m

RT: 7.162 min Scan# 1904

Delta R.T. 0.019 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

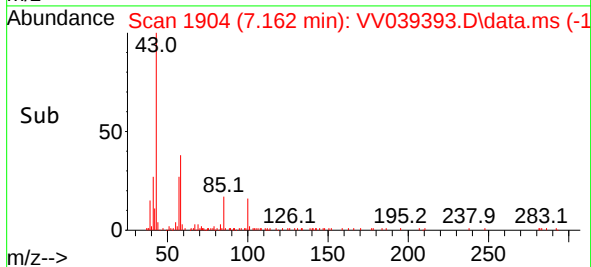
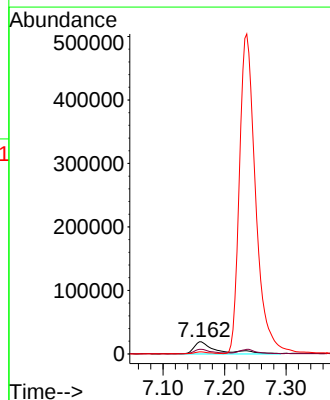
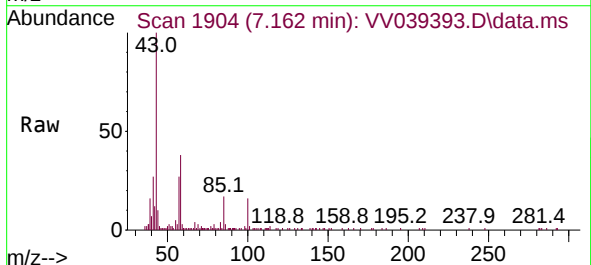
Tgt Ion: 43 Resp: 49989

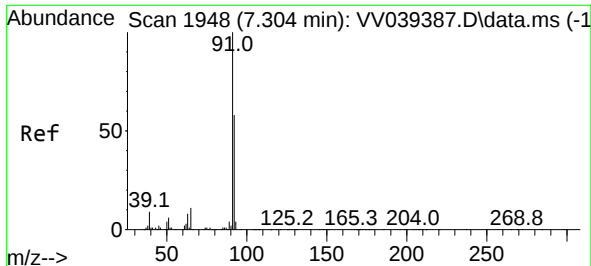
Ion Ratio Lower Upper

43 100

58 27.5 30.8 46.2#

100 10.8 12.5 18.7#





#42

Toluene

Concen: 2.106 ug/L

RT: 7.320 min Scan# 19

Delta R.T. 0.016 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

Tgt Ion: 91 Resp: 76716

Ion Ratio Lower Upper

91 100

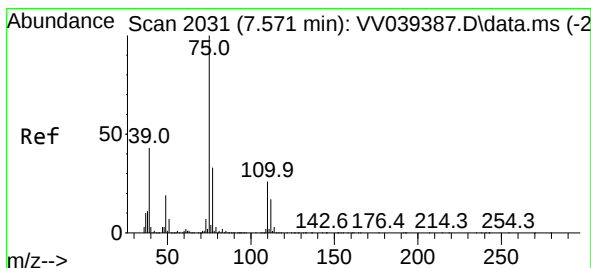
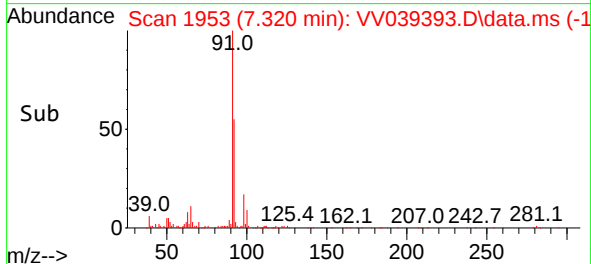
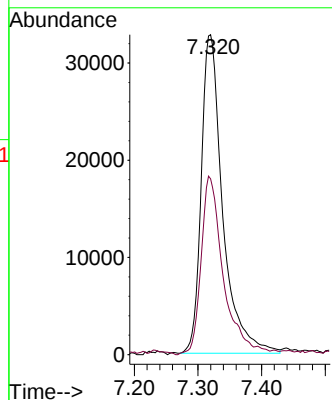
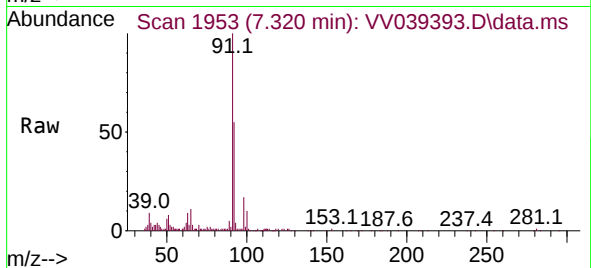
92 54.9 40.4 75.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#44

trans-1,3-Dichloropropene

Concen: 2.243 ug/L m

RT: 7.583 min Scan# 2035

Delta R.T. 0.013 min

Lab File: VV039393.D

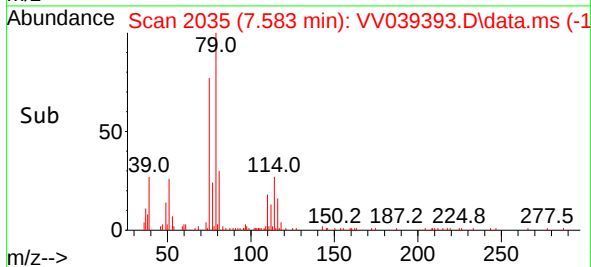
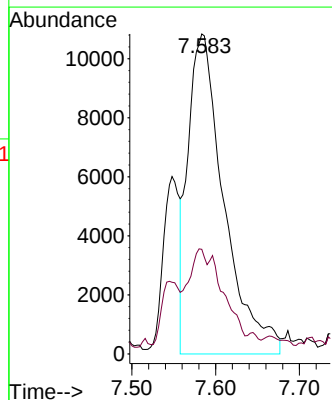
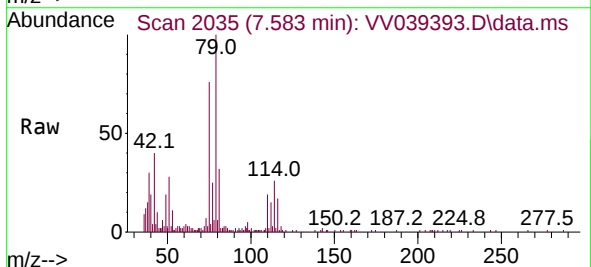
Acq: 17 Nov 2025 15:41

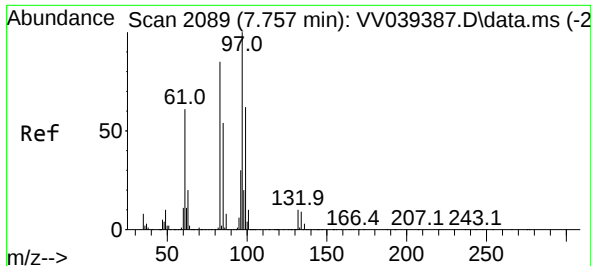
Tgt Ion: 75 Resp: 32362

Ion Ratio Lower Upper

75 100

77 32.7 23.0 42.6





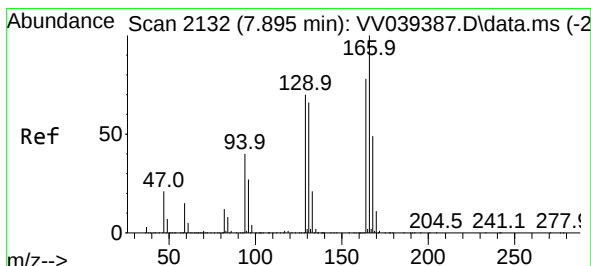
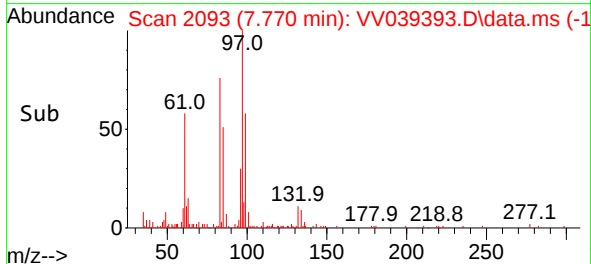
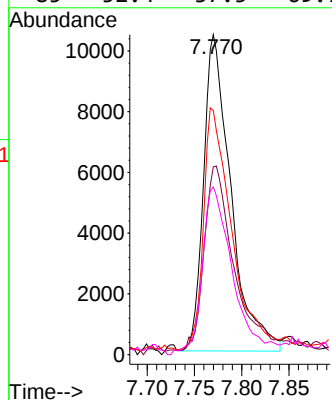
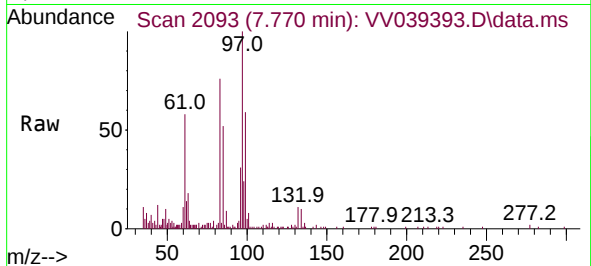
#45
1,1,2-Trichloroethane
Concen: 2.079 ug/L
RT: 7.770 min Scan# 2089
Delta R.T. 0.013 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2025-07

Tgt Ion	Ratio	Lower	Upper
97	100		
99	58.7	43.7	81.1
83	76.2	59.1	109.9
85	52.4	37.5	69.7

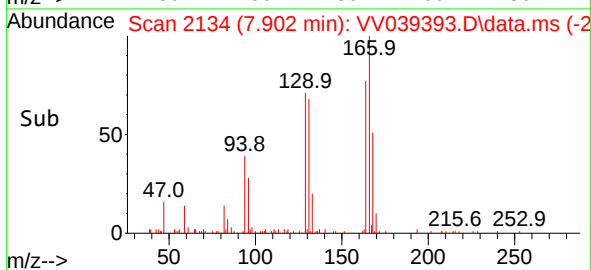
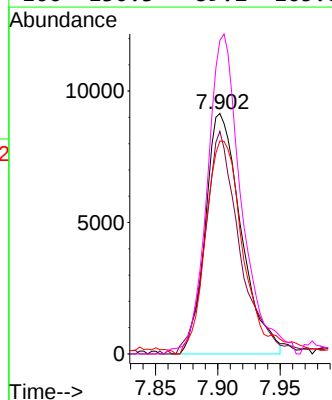
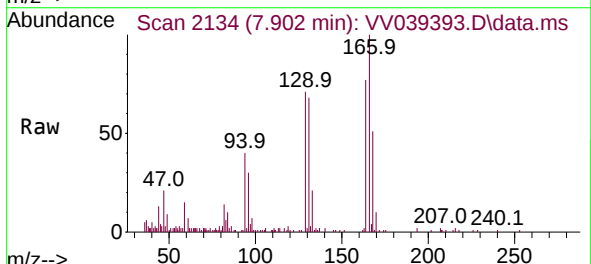
Manual Integrations
APPROVED

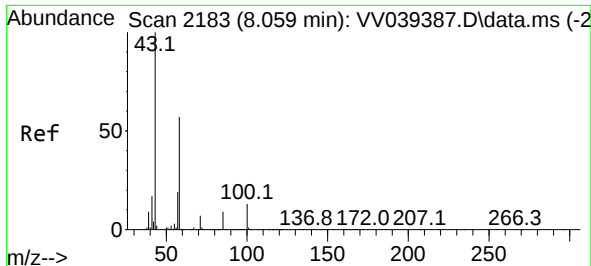
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#46
Tetrachloroethene
Concen: 2.129 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.006 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

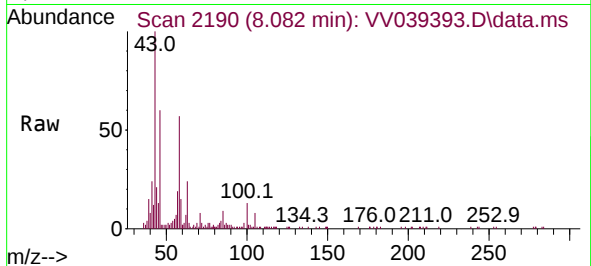
Tgt Ion	Ratio	Lower	Upper
164	100		
129	92.5	62.0	115.2
131	88.5	59.1	109.7
166	130.3	89.2	165.8





#48
2-Hexanone
Concen: 4.881 ug/L m
RT: 8.082 min Scan# 2183
Delta R.T. 0.022 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

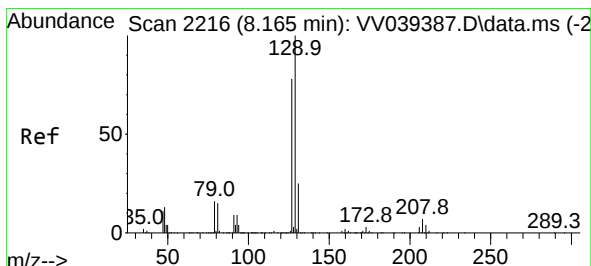
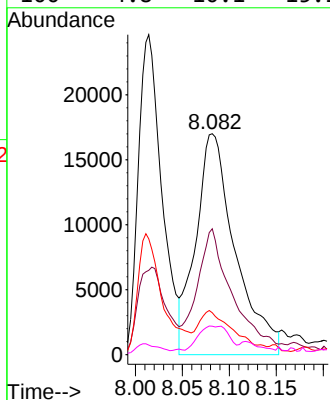
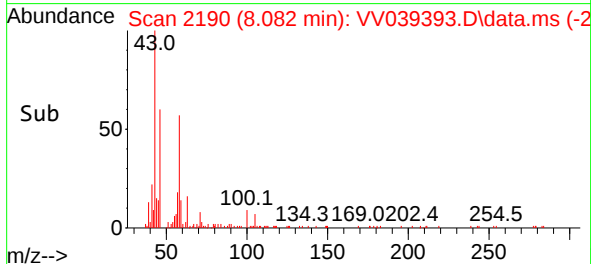
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2025-07



Tgt Ion: 43 Resp: 4983
Ion Ratio Lower Upper
43 100
58 36.8 45.0 67.4
57 16.0 15.0 22.6
100 4.8 10.1 15.1#

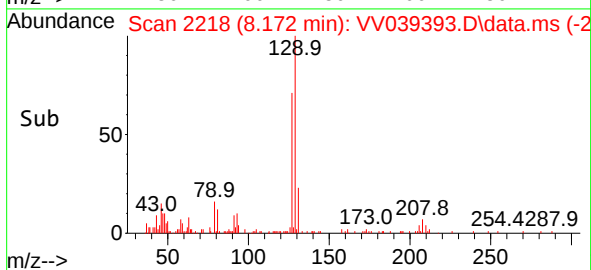
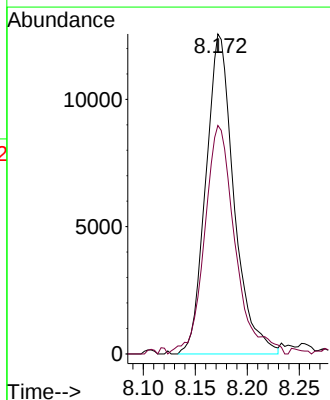
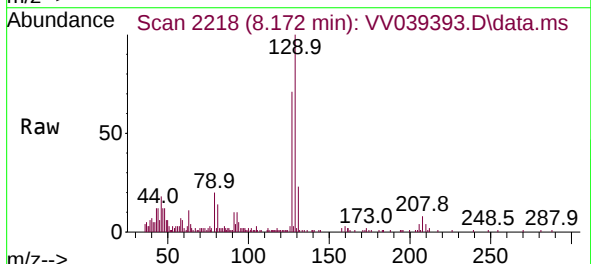
Manual Integrations
APPROVED

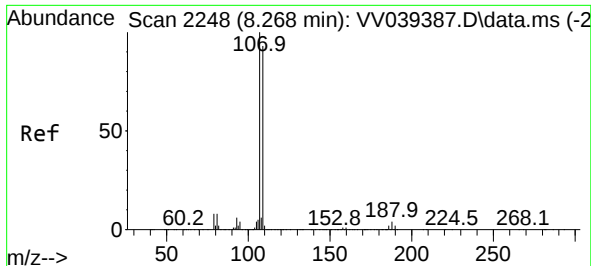
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#49
Dibromochloromethane
Concen: 2.048 ug/L
RT: 8.172 min Scan# 2218
Delta R.T. 0.006 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Tgt Ion:129 Resp: 23652
Ion Ratio Lower Upper
129 100
127 71.4 54.8 101.8





#50

1,2-Dibromoethane

Concen: 2.017 ug/L

RT: 8.284 min Scan# 2197

Delta R.T. 0.016 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

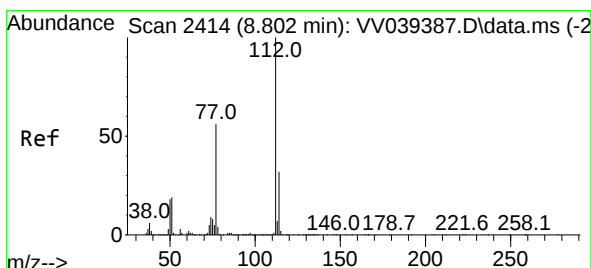
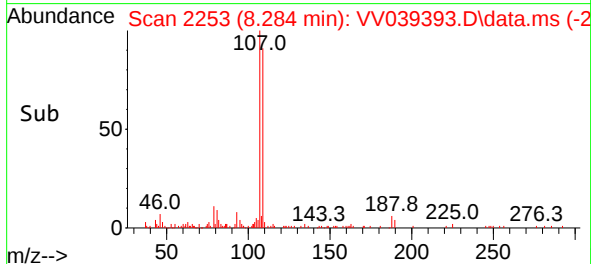
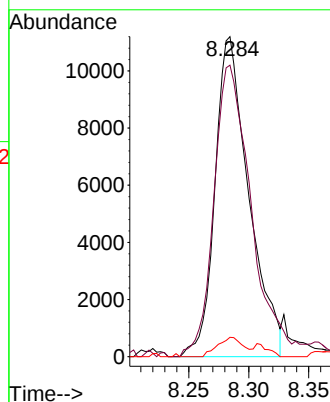
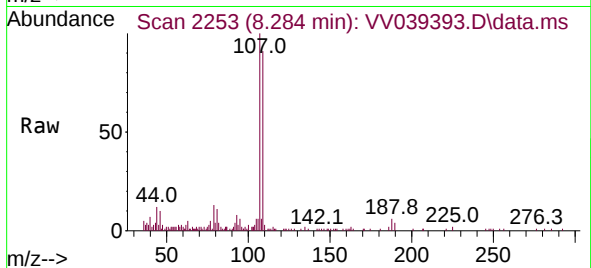
Tgt Ion:	107	Resp:	2197
Ion Ratio	Lower	Upper	
107	100		
109	91.1	65.0	120.8
188	6.1	3.2	4.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#51

Chlorobenzene

Concen: 2.075 ug/L

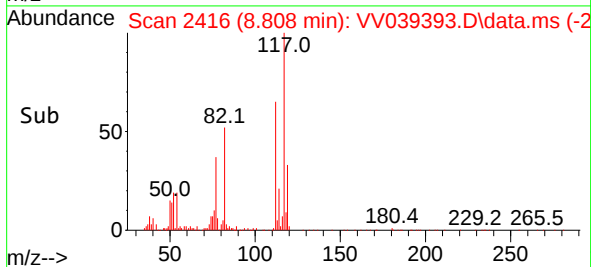
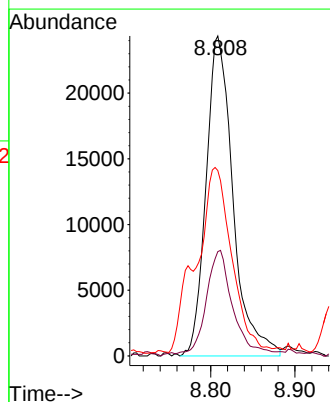
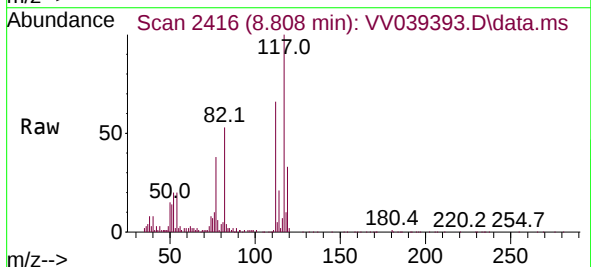
RT: 8.808 min Scan# 2416

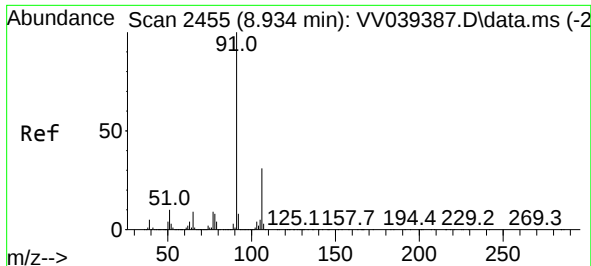
Delta R.T. 0.006 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Tgt Ion:	112	Resp:	54197
Ion Ratio	Lower	Upper	
112	100		
114	32.6	22.4	41.6
77	57.9	45.1	67.7





#52

Ethylbenzene

Concen: 1.763 ug/L

RT: 8.943 min Scan# 2455

Delta R.T. 0.010 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

Tgt Ion: 91 Resp: 6982

Ion Ratio Lower Upper

91 100

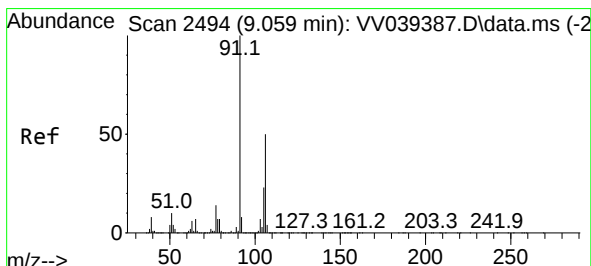
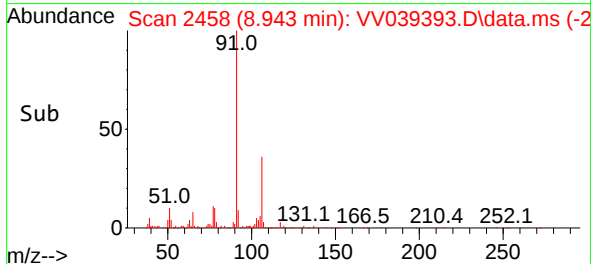
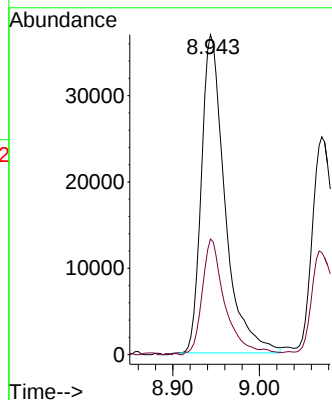
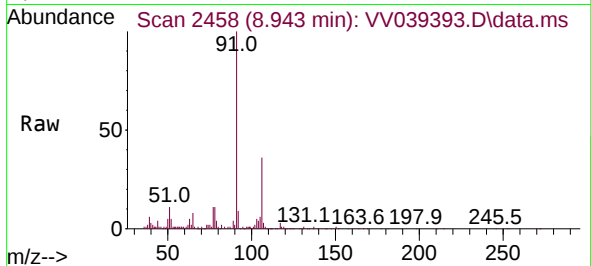
106 36.1 21.8 40.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#53

m,p-Xylene

Concen: 1.618 ug/L

RT: 9.069 min Scan# 2497

Delta R.T. 0.010 min

Lab File: VV039393.D

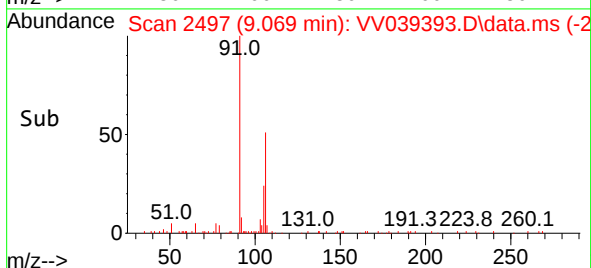
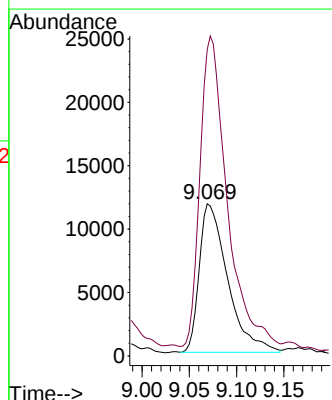
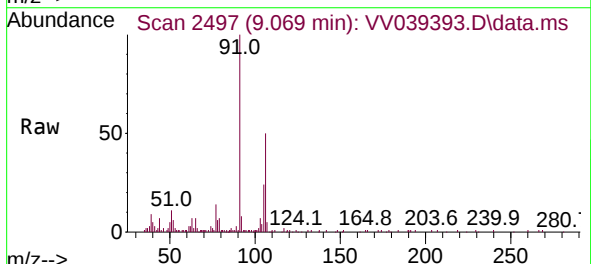
Acq: 17 Nov 2025 15:41

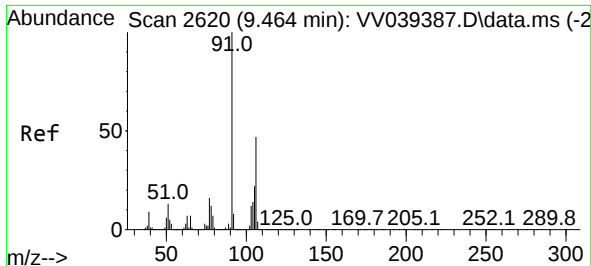
Tgt Ion:106 Resp: 24520

Ion Ratio Lower Upper

106 100

91 201.5 141.1 262.1





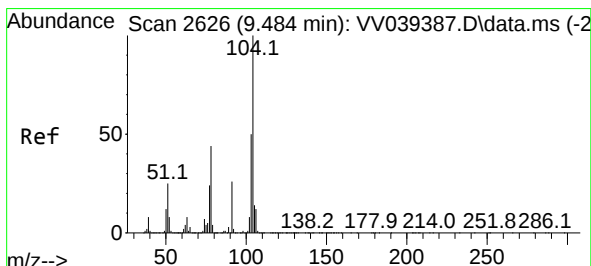
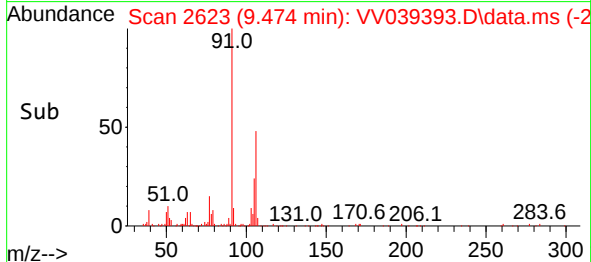
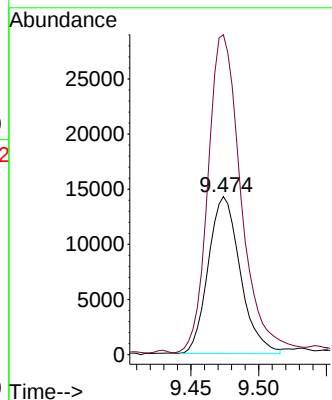
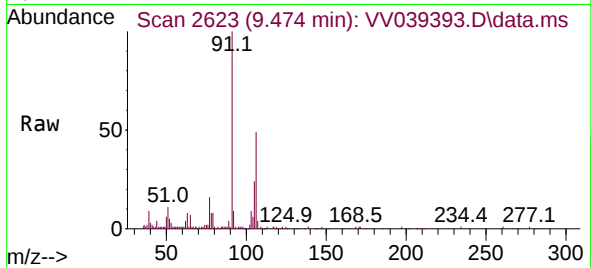
#54
o-Xylene
Concen: 1.616 ug/L
RT: 9.474 min Scan# 2620
Delta R.T. 0.010 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2025-07

Tgt Ion:106 Resp: 23410
Ion Ratio Lower Upper
106 100
91 202.6 149.0 276.6

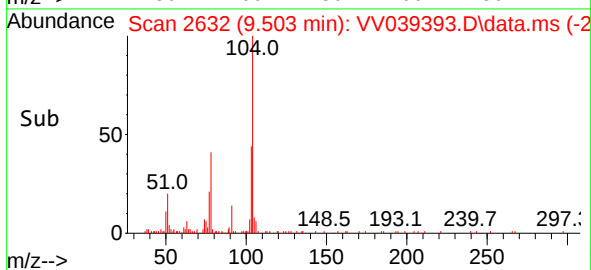
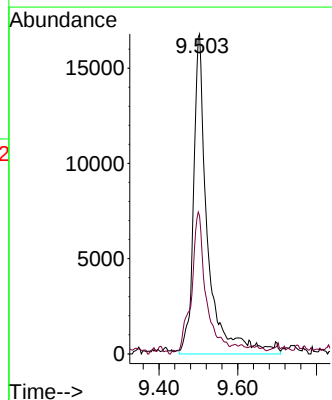
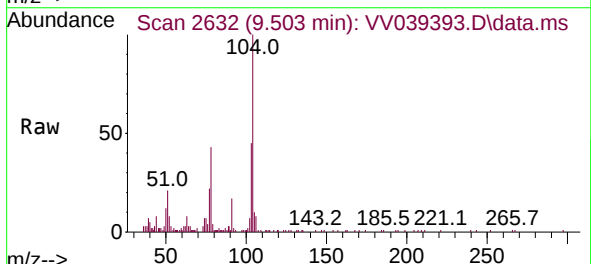
Manual Integrations
APPROVED

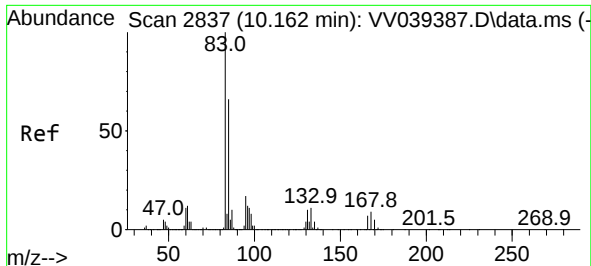
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#55
Styrene
Concen: 1.633 ug/L m
RT: 9.503 min Scan# 2632
Delta R.T. 0.019 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

Tgt Ion:104 Resp: 41588
Ion Ratio Lower Upper
104 100
78 43.1 30.5 56.7





#57

1,1,2,2-Tetrachloroethane

Concen: 2.274 ug/L

RT: 10.165 min Scan# 2837

Delta R.T. 0.003 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

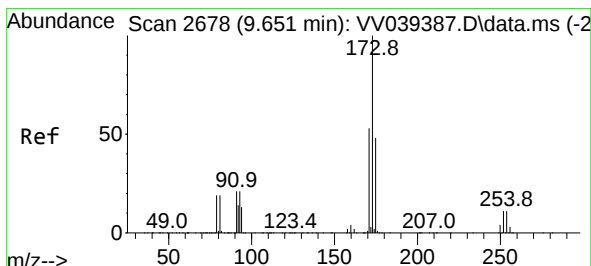
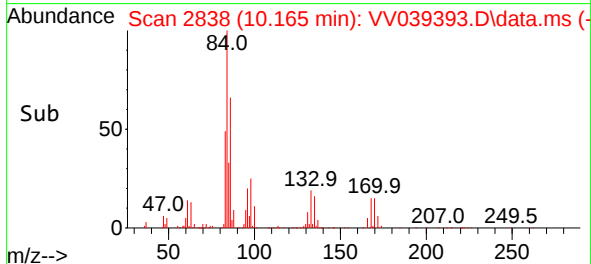
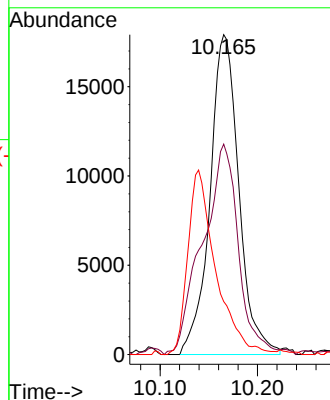
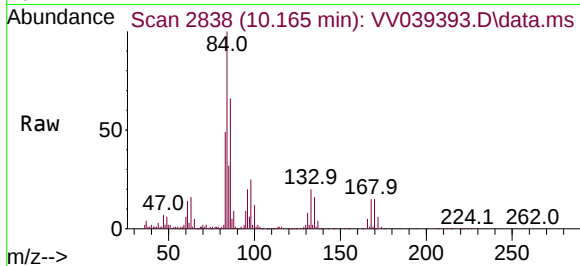
Tgt Ion:	83	Resp:	3693
Ion Ratio	Lower	Upper	
83	100		
85	65.8	46.1	85.5
131	16.6	8.3	12.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#59

Bromoform

Concen: 2.273 ug/L

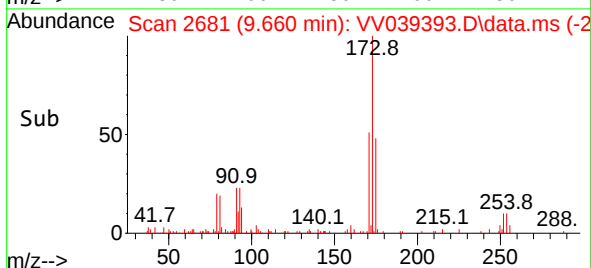
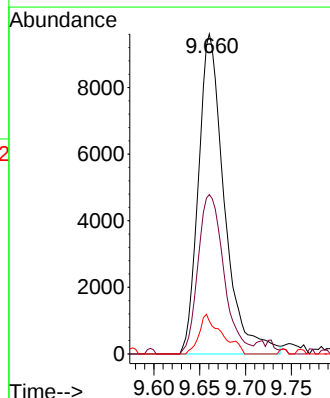
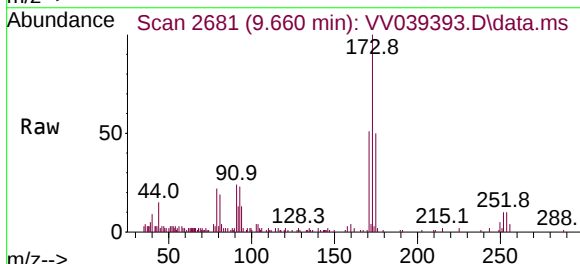
RT: 9.660 min Scan# 2681

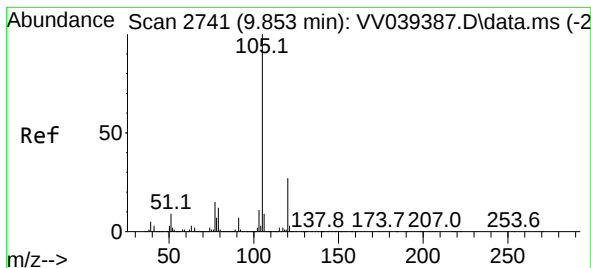
Delta R.T. 0.010 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Tgt Ion:	173	Resp:	18871
Ion Ratio	Lower	Upper	
173	100		
175	49.7	38.5	57.7
254	9.5	8.4	12.6





#60

Isopropylbenzene

Concen: 1.849 ug/L

RT: 9.860 min Scan# 21

Delta R.T. 0.006 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

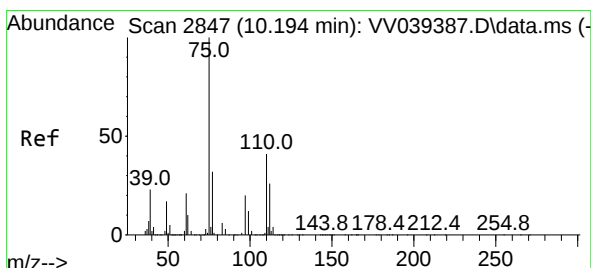
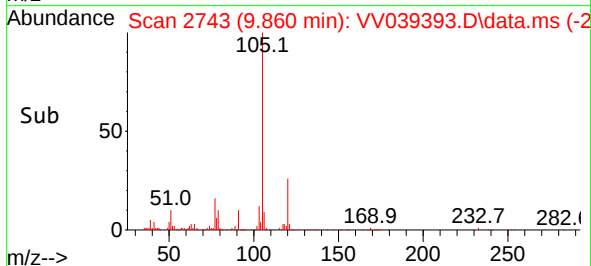
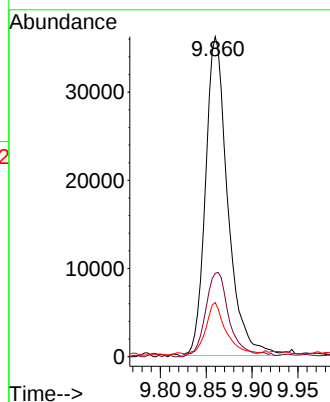
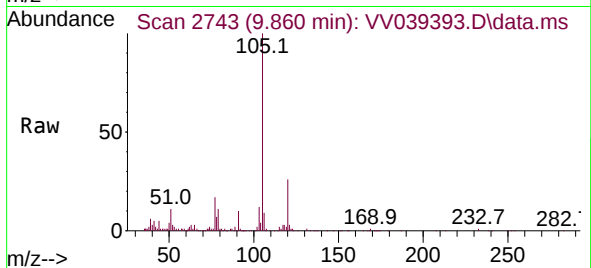
Tgt Ion:	105	Resp:	61059
Ion Ratio	Lower	Upper	
105	100		
120	27.4	21.4	32.0
77	14.3	12.3	18.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#61

1,2,3-Trichloropropane

Concen: 2.380 ug/L

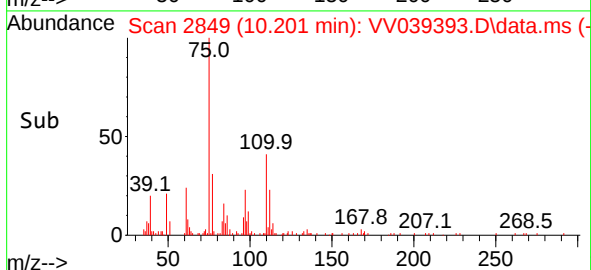
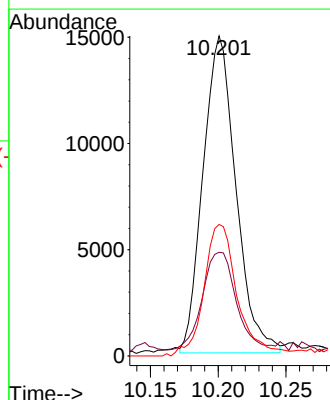
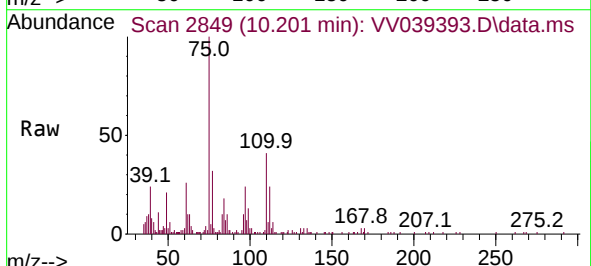
RT: 10.201 min Scan# 2849

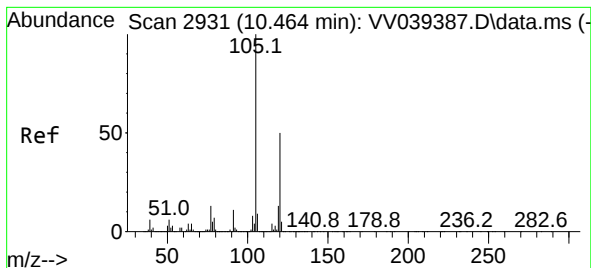
Delta R.T. 0.006 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Tgt Ion:	75	Resp:	25177
Ion Ratio	Lower	Upper	
75	100		
77	31.8	25.7	38.5
110	42.0	32.6	49.0





#62

1,3,5-Trimethylbenzene

Concen: 1.777 ug/L

RT: 10.467 min Scan# 2931

Delta R.T. 0.003 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

Tgt Ion:105 Resp: 45832

Ion Ratio Lower Upper

105 100

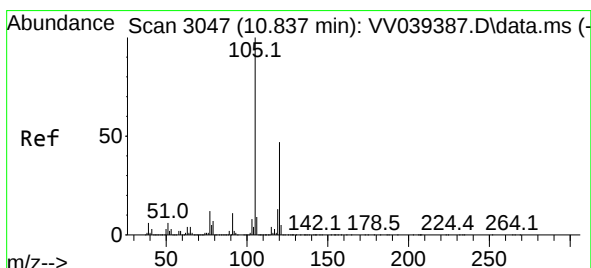
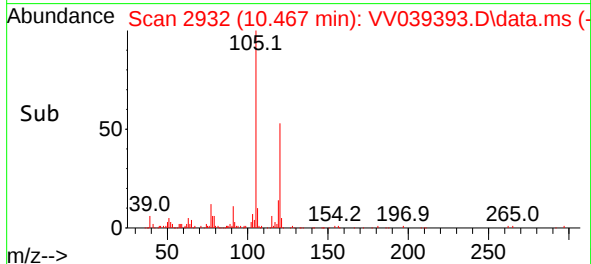
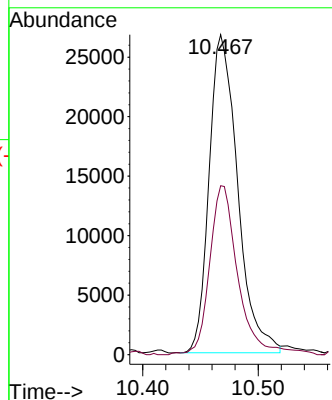
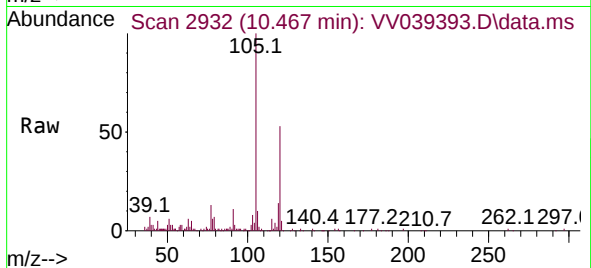
120 52.7 39.8 59.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#63

1,2,4-Trimethylbenzene

Concen: 1.692 ug/L

RT: 10.844 min Scan# 3049

Delta R.T. 0.006 min

Lab File: VV039393.D

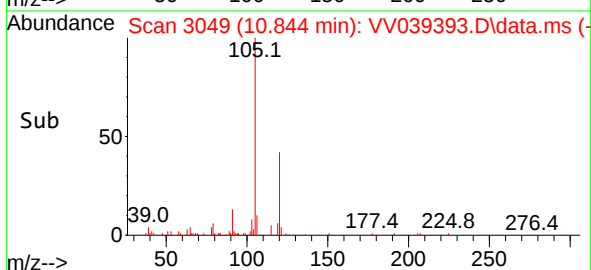
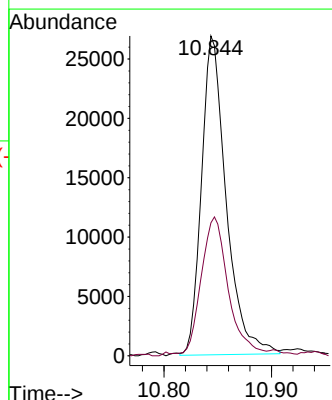
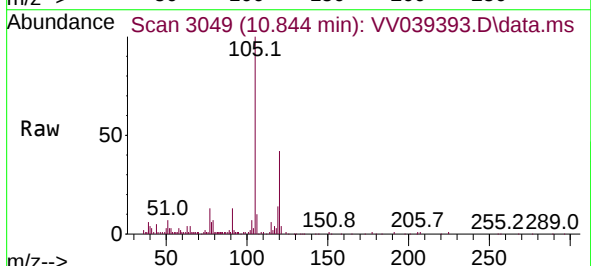
Acq: 17 Nov 2025 15:41

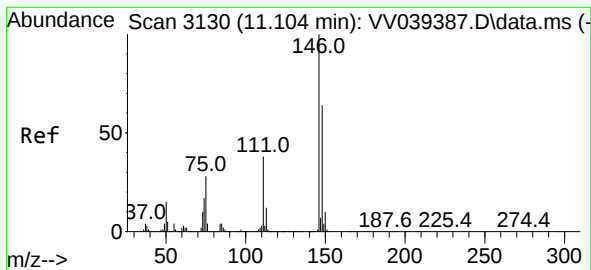
Tgt Ion:105 Resp: 42908

Ion Ratio Lower Upper

105 100

120 48.2 37.4 56.2





#64

1,3-Dichlorobenzene

Concen: 2.118 ug/L

RT: 11.114 min Scan# 31

Delta R.T. 0.010 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

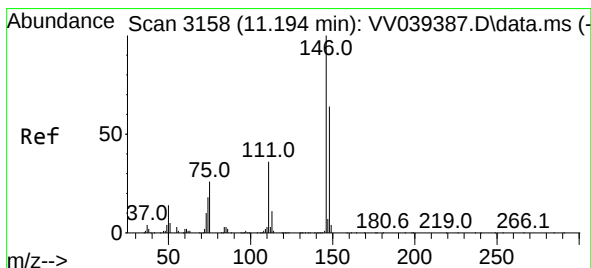
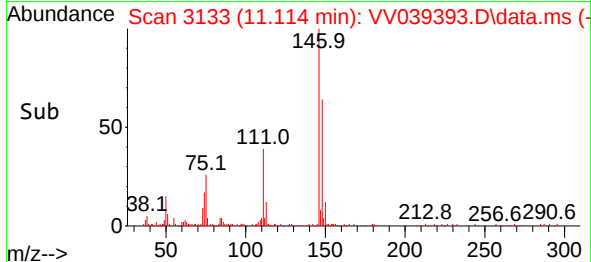
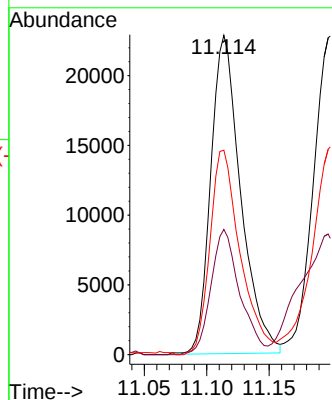
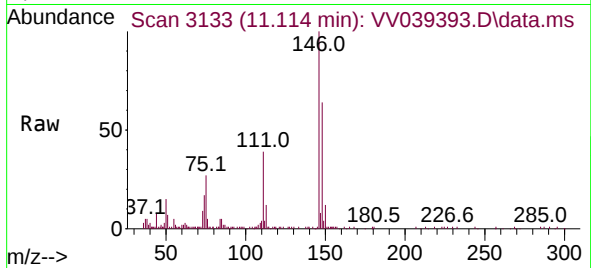
Tgt Ion:146	Resp:	38074
Ion Ratio	Lower	Upper
146	100	
111	39.2	26.5 49.3
148	64.0	44.6 82.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#65

1,4-Dichlorobenzene

Concen: 2.174 ug/L

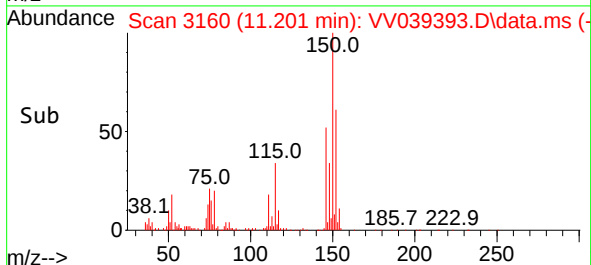
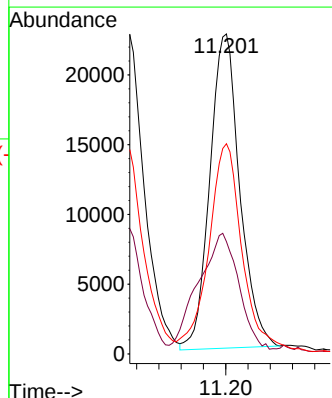
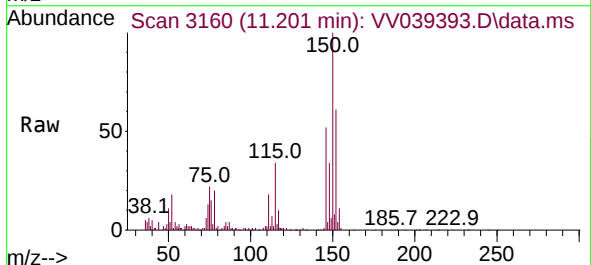
RT: 11.201 min Scan# 3160

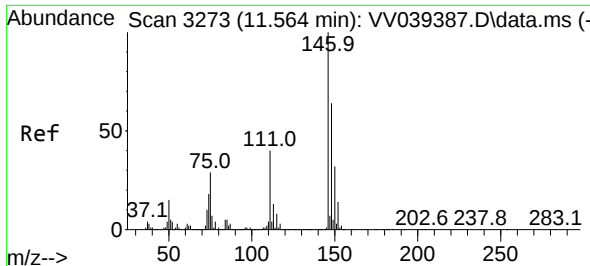
Delta R.T. 0.006 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

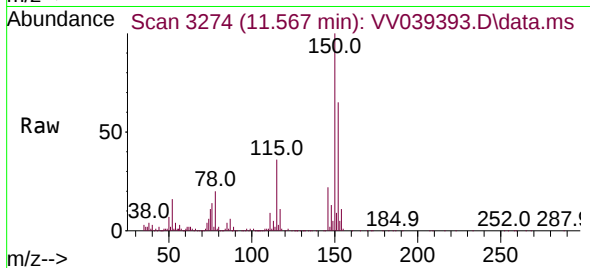
Tgt Ion:146	Resp:	42109
Ion Ratio	Lower	Upper
146	100	
111	35.1	25.6 47.4
148	65.7	44.9 83.5





#67
1,2-Dichlorobenzene
Concen: 2.517 ug/L
RT: 11.567 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

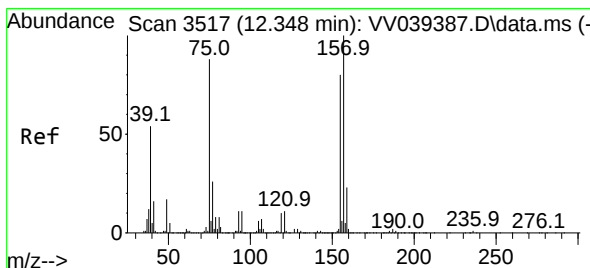
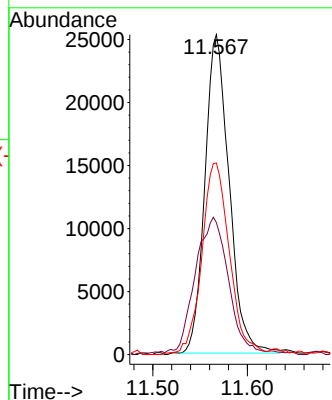
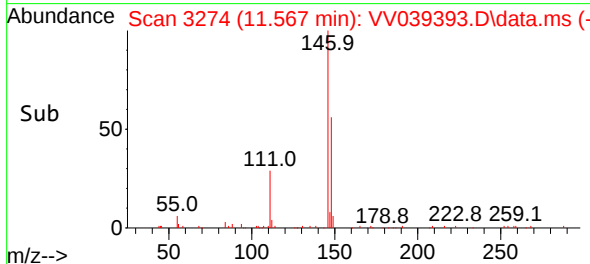
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-QT4-2025-07



Tgt Ion:146 Resp: 4520
Ion Ratio Lower Upper
146 100
111 41.3 32.2 48.2
148 59.9 51.6 77.4

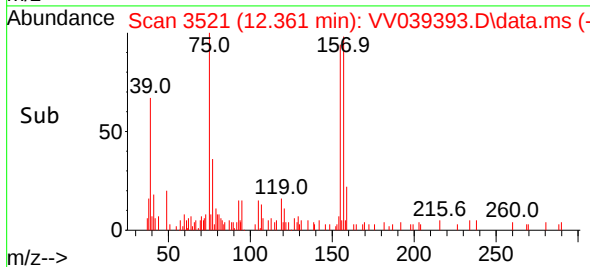
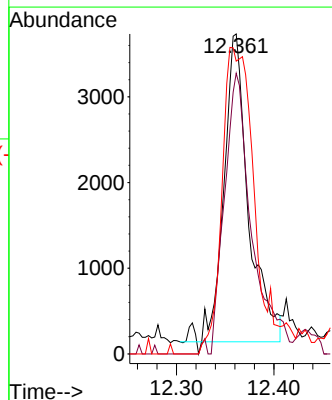
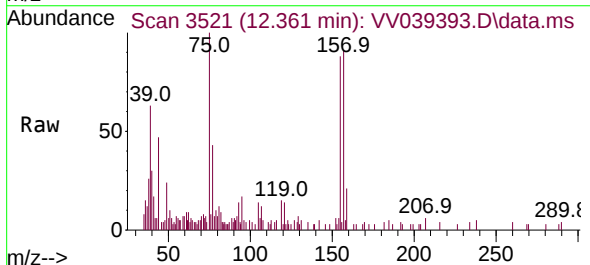
Manual Integrations
APPROVED

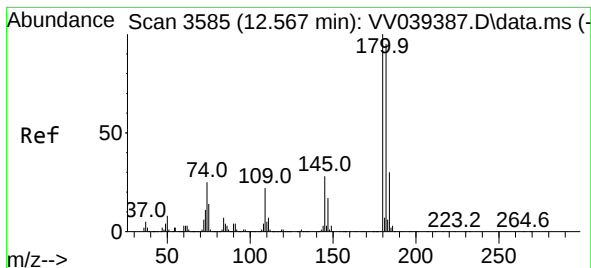
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68
1,2-Dibromo-3-chloropropane
Concen: 2.137 ug/L
RT: 12.361 min Scan# 3521
Delta R.T. 0.013 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

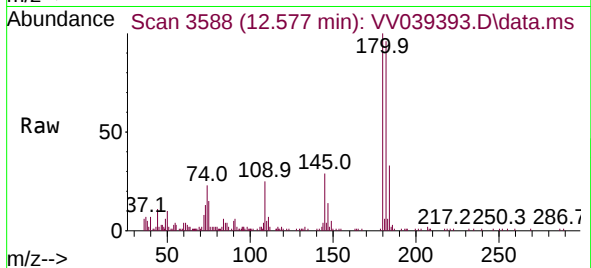
Tgt Ion: 75 Resp: 6347
Ion Ratio Lower Upper
75 100
155 87.7 73.0 109.4
157 91.5 91.0 136.4





#69
1,3,5-Trichlorobenzene
Concen: 2.041 ug/L
RT: 12.577 min Scan# 3585
Delta R.T. 0.010 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41

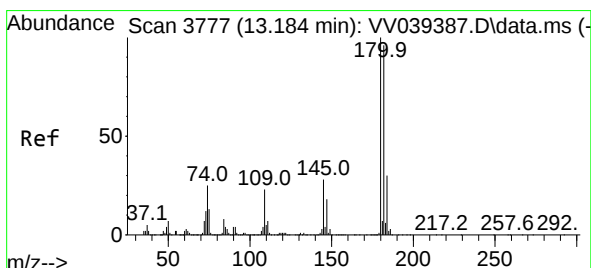
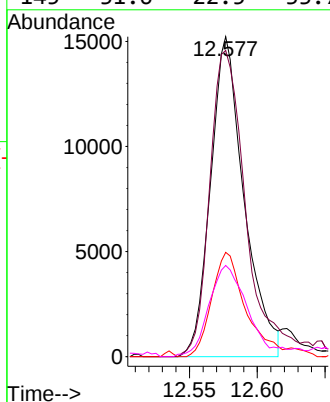
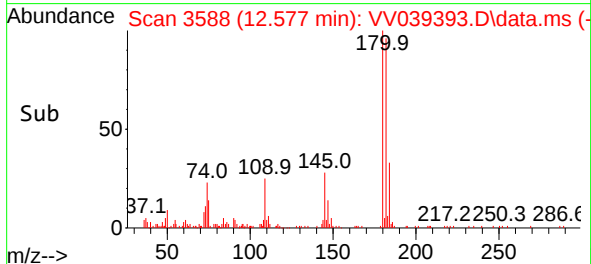
Instrument : MSVOA_V
ClientSampleId : MDL-WATER-QT4-2025-07



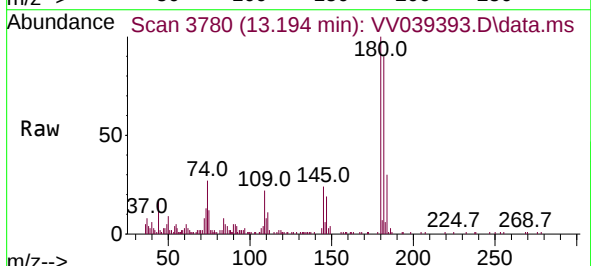
Tgt Ion:180 Resp: 26133
Ion Ratio Lower Upper
180 100
182 103.1 75.8 113.8
184 32.9 24.3 36.5
145 31.6 22.5 33.7

Manual Integrations
APPROVED

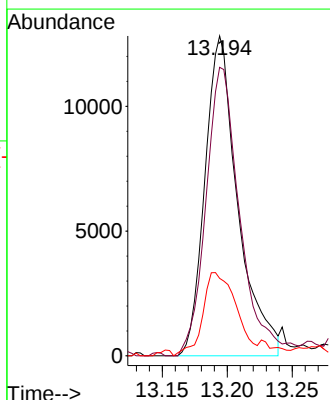
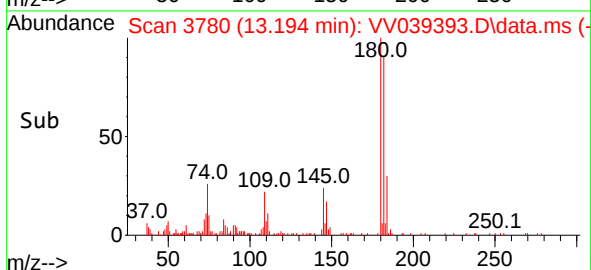
Reviewed By :Amit Patel 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

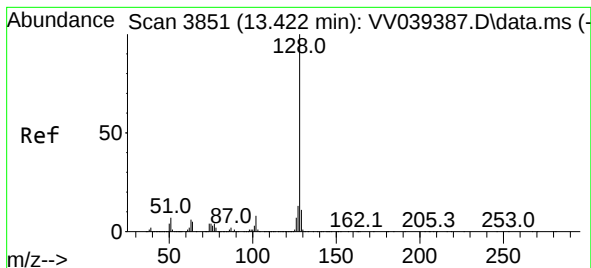


#70
1,2,4-trichlorobenzene
Concen: 2.027 ug/L
RT: 13.194 min Scan# 3780
Delta R.T. 0.010 min
Lab File: VV039393.D
Acq: 17 Nov 2025 15:41



Tgt Ion:180 Resp: 22622
Ion Ratio Lower Upper
180 100
182 91.8 76.1 114.1
145 26.4 22.5 33.7





#71

Naphthalene

Concen: 1.774 ug/L m

RT: 13.435 min Scan# 3855

Delta R.T. 0.013 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT4-2025-07

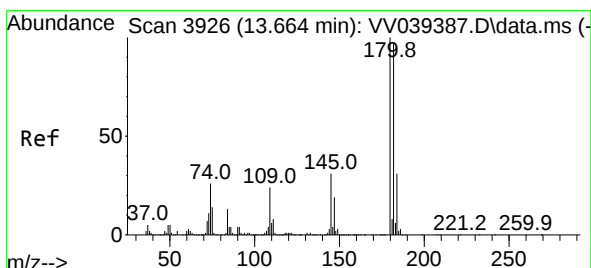
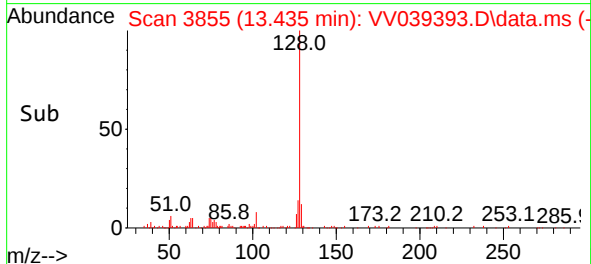
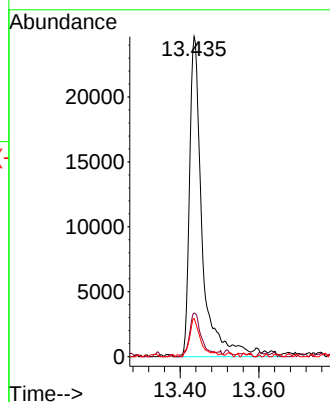
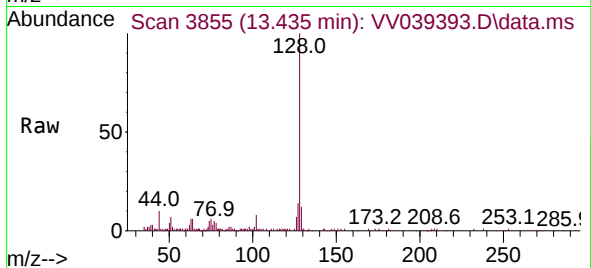
Tgt Ion:	128	Resp:	55739
Ion Ratio	Lower	Upper	
128	100		
127	11.5	10.6	16.0
129	9.9	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#72

1,2,3-Trichlorobenzene

Concen: 1.954 ug/L

RT: 13.673 min Scan# 3929

Delta R.T. 0.010 min

Lab File: VV039393.D

Acq: 17 Nov 2025 15:41

Tgt Ion:	180	Resp:	22597
Ion Ratio	Lower	Upper	
180	100		
182	93.6	76.6	115.0
145	31.0	24.3	36.5

