

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV061125\
 Data File : VV038785.D
 Acq On : 11 Jun 2025 15:54
 Operator : SY/MD
 Sample : Q2117-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT2-2025-04

Quant Time: Jun 11 16:14:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM060925WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jun 10 14:44:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/16/2025

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	526379	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	549829	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.175	152	245514	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.288	65	174006	39.750	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	79.500%		
7) Chloroethane-d5	1.542	69	165466	41.294	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.580%		
11) 1,1-Dichloroethene-d2	2.069	65	88471	41.062	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	82.120%		
21) 2-Butanone-d5	3.786	46	332848	97.496	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	97.500%		
24) Chloroform-d	4.253	84	398995	42.783	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	85.560%		
26) 1,2-Dichloroethane-d4	4.941	65	248954	45.726	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.460%		
32) Benzene-d6	4.960	84	751214	43.303	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.600%		
36) 1,2-Dichloropropane-d6	5.986	67	263574	45.746	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	91.500%		
41) Toluene-d8	7.240	98	623442	40.698	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	81.400%		
43) trans-1,3-Dichloroprop...	7.548	79	102221	40.682	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	81.360%		
47) 2-Hexanone-d5	8.014	63	220673	92.315	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	92.320%		
56) 1,1,2,2-Tetrachloroeth...	10.143	84	368830	43.143	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	86.280%		
66) 1,2-Dichlorobenzene-d4	11.551	152	228998	48.060	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	96.120%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.118	85	12247	1.980	ug/L	95
3) Chloromethane	1.227	50	12366	1.978	ug/L	96
5) Vinyl chloride	1.291	62	12957	2.005	ug/L #	78
6) Bromomethane	1.497	94	7384	2.301	ug/L	96
8) Chloroethane	1.558	64	8491	2.188	ug/L	94
9) Trichlorofluoromethane	1.725	101	15887	1.864	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.079	101	12833	2.544	ug/L #	82
12) 1,1-Dichloroethene	2.076	96	9818	2.159	ug/L #	1
13) Acetone	2.121	43	12871	5.591	ug/L	95
14) Carbon disulfide	2.249	76	27724	1.994	ug/L	96
15) Methyl Acetate	2.391	43	14021m	2.293	ug/L	
17) trans-1,2-Dichloroethene	2.709	96	8497m	1.858	ug/L	
18) Methyl tert-butyl Ether	2.712	73	21212	1.540	ug/L	96
19) 1,1-Dichloroethane	3.127	63	18438	1.940	ug/L	96
20) cis-1,2-Dichloroethene	3.828	96	10862m	2.211	ug/L	
22) 2-Butanone	3.931	43	20847m	5.769	ug/L	
23) Bromochloromethane	4.169	128	5494m	2.095	ug/L	
27) 1,2-Dichloroethane	5.060	62	12896	1.824	ug/L	96
29) Cyclohexane	4.590	56	13103	1.667	ug/L	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 1,1,1-Trichloroethane	4.519	97	15850	1.960	ug/L #	72
31) Carbon tetrachloride	4.741	117	13378	1.906	ug/L	92
33) Benzene	5.021	78	38980	2.015	ug/L	100
34) Trichloroethene	5.847	95	9934	1.938	ug/L	91
35) Methylcyclohexane	6.043	83	16279m	2.025	ug/L	
37) 1,2-Dichloropropane	6.105	63	8145	1.462	ug/L #	92
38) Bromodichloromethane	6.449	83	14652m	2.027	ug/L	
39) cis-1,3-Dichloropropene	6.966	75	13351	1.668	ug/L	95
40) 4-Methyl-2-pentanone	7.162	43	21270	2.792	ug/L #	89
42) Toluene	7.323	91	38109	1.908	ug/L	94
44) trans-1,3-Dichloropropene	7.590	75	12972	1.679	ug/L	99
45) 1,1,2-Trichloroethane	7.773	97	10451	1.913	ug/L	92
46) Tetrachloroethene	7.908	164	7220	1.915	ug/L	97
48) 2-Hexanone	8.082	43	27888	4.944	ug/L #	89
49) Dibromochloromethane	8.175	129	10508	1.894	ug/L	98
50) 1,2-Dibromoethane	8.288	107	10994	1.959	ug/L #	98
51) Chlorobenzene	8.812	112	26202	1.945	ug/L	98
52) Ethylbenzene	8.947	91	34122	1.586	ug/L	96
53) m,p-Xylene	9.075	106	10689	1.354	ug/L	95
54) o-Xylene	9.477	106	11143	1.459	ug/L	98
55) Styrene	9.503	104	17526m	1.317	ug/L	
57) 1,1,2,2-Tetrachloroethane	10.172	83	19674	2.182	ug/L #	98
59) Bromoform	9.667	173	7032	2.053	ug/L #	94
60) Isopropylbenzene	9.863	105	26252	1.501	ug/L	95
61) 1,2,3-Trichloropropane	10.204	75	13487	2.248	ug/L	99
62) 1,3,5-Trimethylbenzene	10.471	105	20180	1.483	ug/L	96
63) 1,2,4-Trimethylbenzene	10.850	105	20250	1.506	ug/L	99
64) 1,3-Dichlorobenzene	11.117	146	15948	1.909	ug/L	96
65) 1,4-Dichlorobenzene	11.204	146	18140	2.017	ug/L	96
67) 1,2-Dichlorobenzene	11.567	146	18604	2.204	ug/L	93
68) 1,2-Dibromo-3-chloropr...	12.362	75	4007	2.337	ug/L	91
69) 1,3,5-Trichlorobenzene	12.577	180	10605	1.920	ug/L	97
70) 1,2,4-trichlorobenzene	13.201	180	7990	1.692	ug/L	85
71) Naphthalene	13.439	128	24068	1.435	ug/L #	95
72) 1,2,3-Trichlorobenzene	13.673	180	8500	1.725	ug/L	96

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

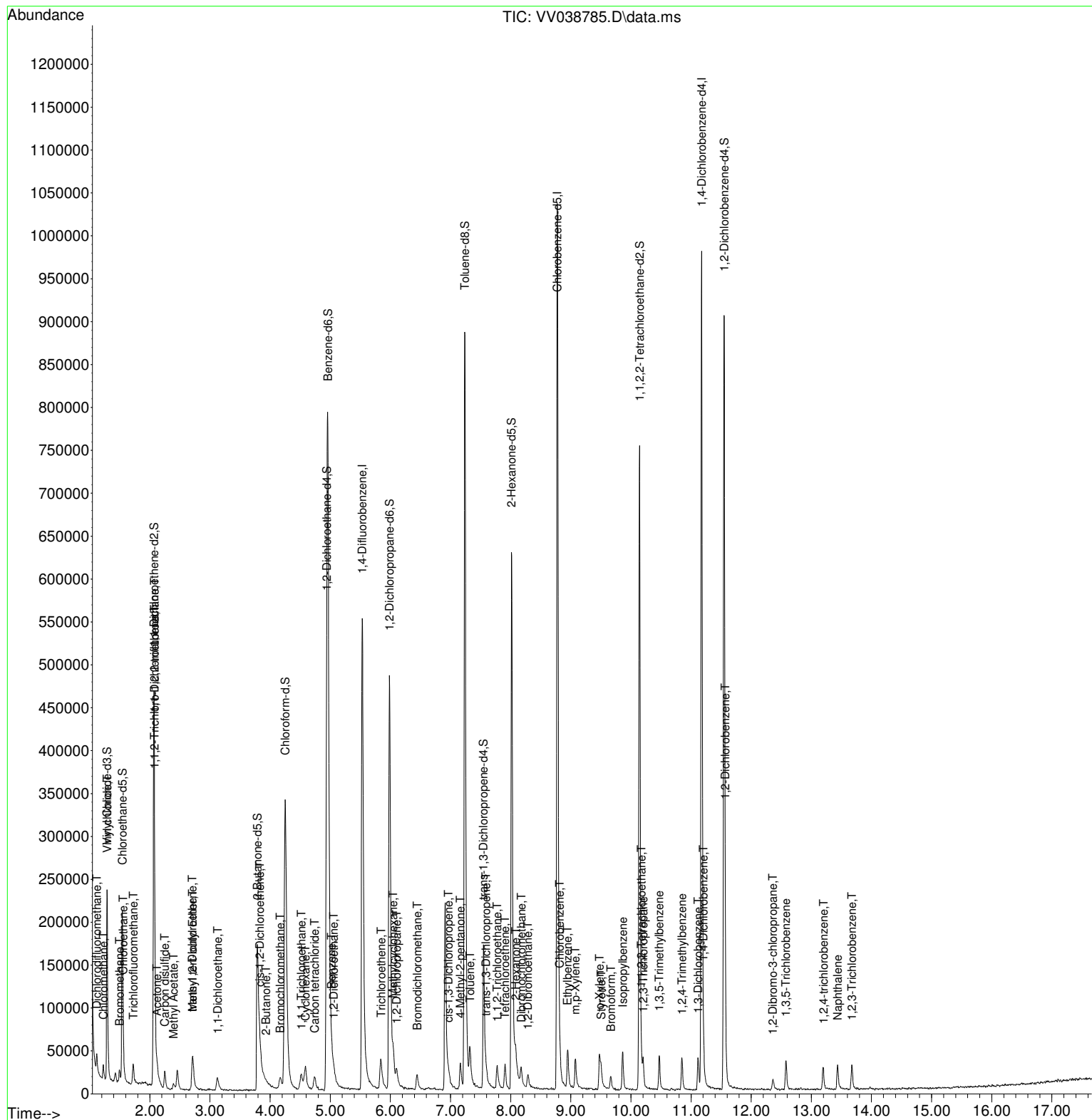
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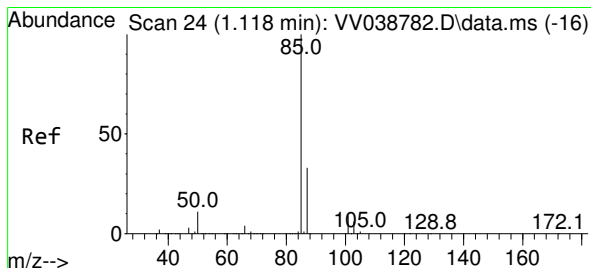
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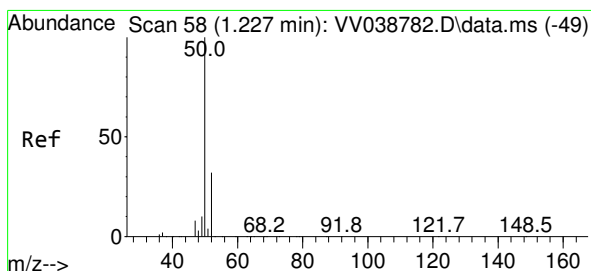
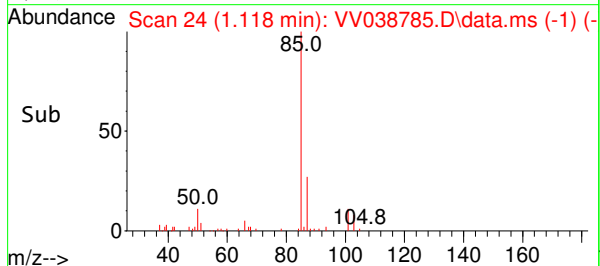
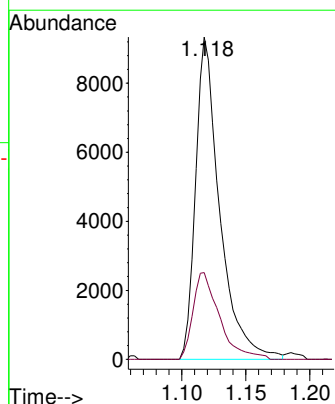
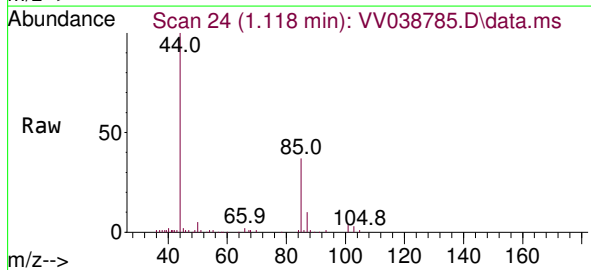
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Dichlorodifluoromethane
Concen: 1.980 ug/L
RT: 1.118 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion: 85 Resp: 1224
Ion Ratio Lower Upper
85 100
87 29.6 25.8 38.6

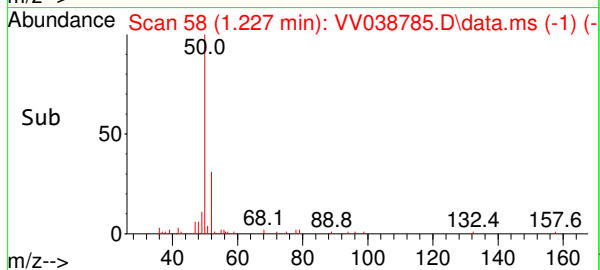
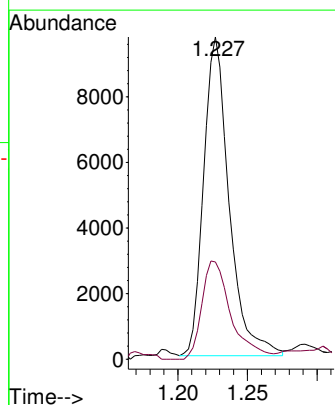
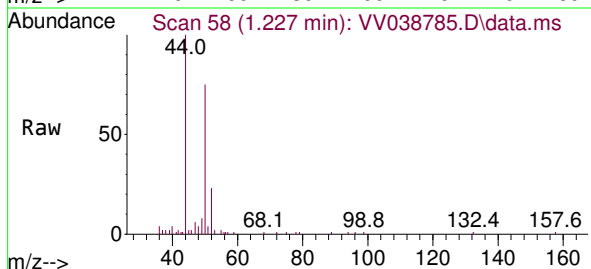
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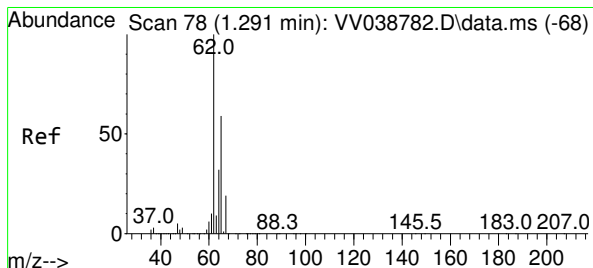
Reviewed By :John Carlone 06/12/2025
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#3
Chloromethane
Concen: 1.978 ug/L
RT: 1.227 min Scan# 58
Delta R.T. 0.000 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion: 50 Resp: 12366
Ion Ratio Lower Upper
50 100
52 30.2 22.7 42.3





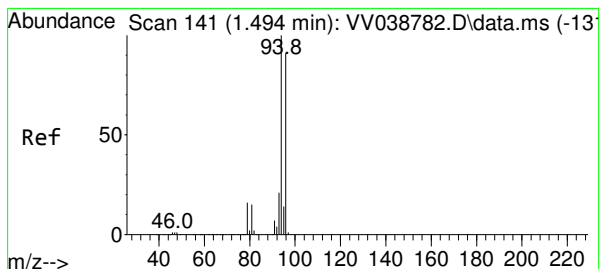
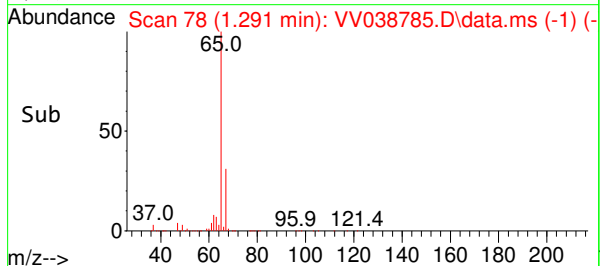
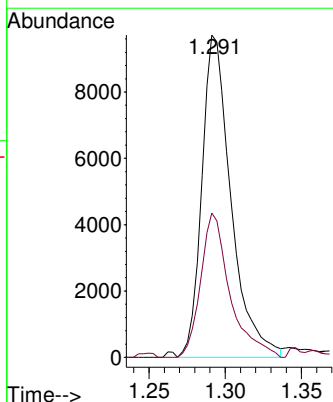
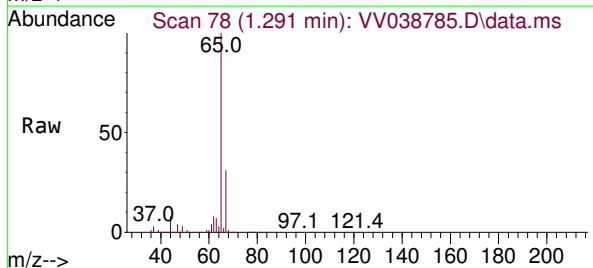
#5
 Vinyl chloride
 Concen: 2.005 ug/L
 RT: 1.291 min Scan# 7
 Delta R.T. -0.003 min
 Lab File: VV038785.D
 Acq: 11 Jun 2025 15:54

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-QT2-2025-04

Tgt Ion: 62 Resp: 1295
 Ion Ratio Lower Upper
 62 100
 64 44.7 22.8 42.4

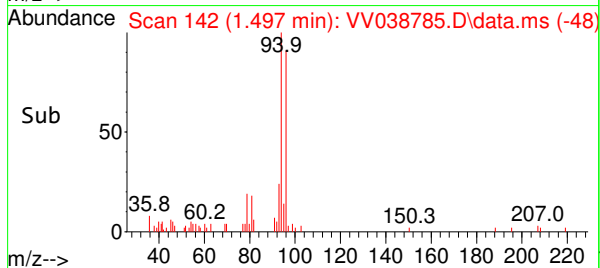
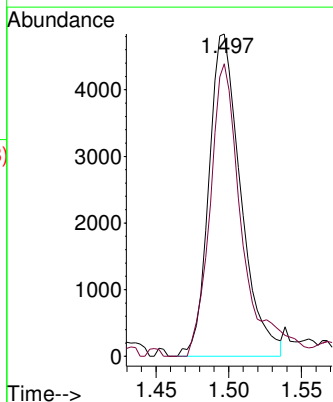
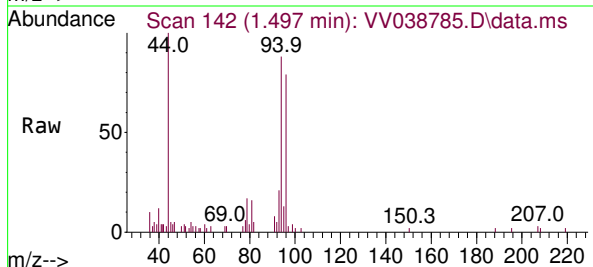
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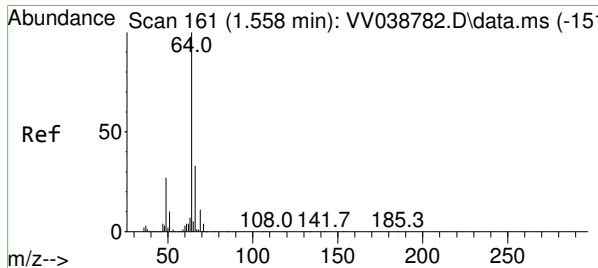
Reviewed By :John Carlone 06/12/2025
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#6
 Bromomethane
 Concen: 2.301 ug/L
 RT: 1.497 min Scan# 142
 Delta R.T. 0.003 min
 Lab File: VV038785.D
 Acq: 11 Jun 2025 15:54

Tgt Ion: 94 Resp: 7384
 Ion Ratio Lower Upper
 94 100
 96 90.8 66.1 122.8





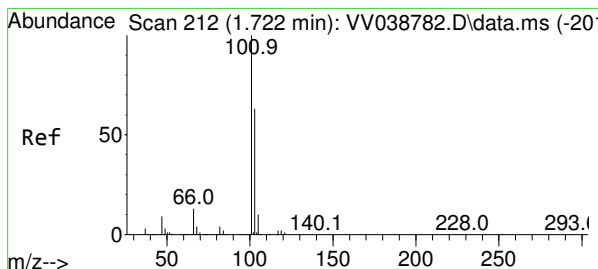
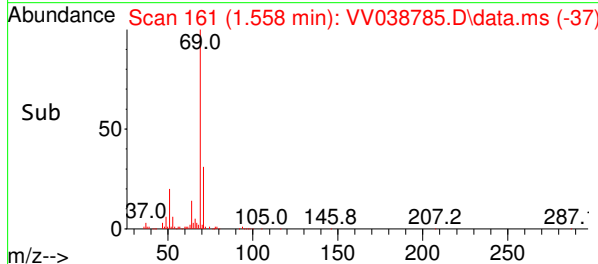
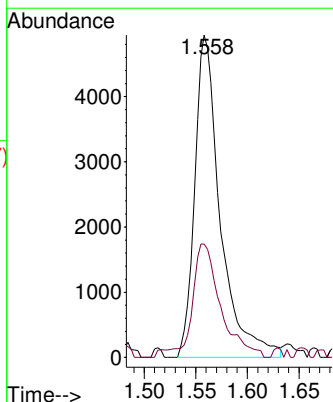
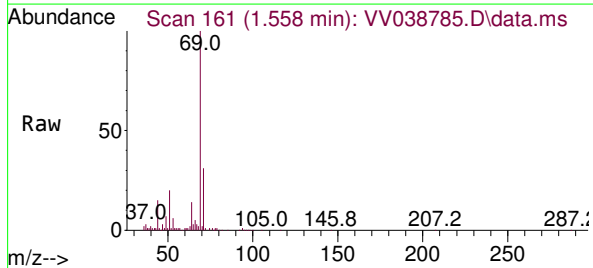
#8
Chloroethane
Concen: 2.188 ug/L
RT: 1.558 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion: 64 Resp: 849
Ion Ratio Lower Upper
64 100
66 35.2 22.3 41.5

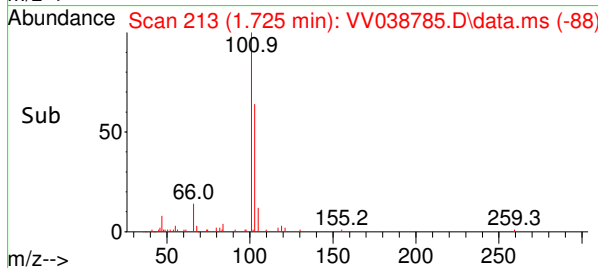
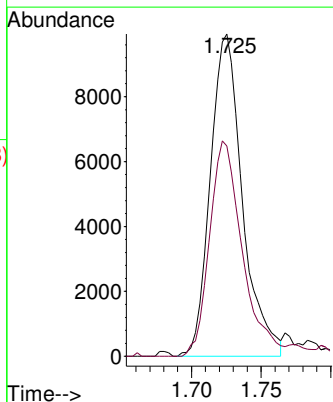
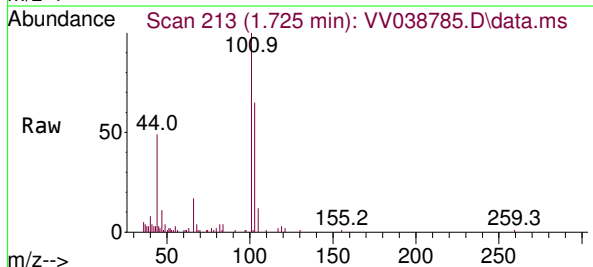
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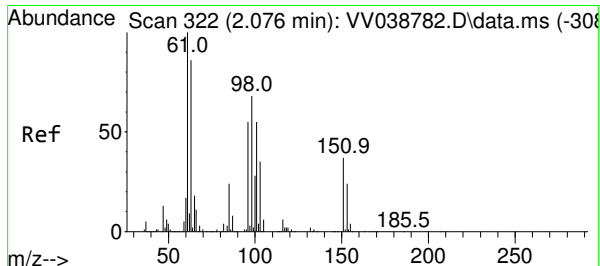
Reviewed By :John Carlone 06/12/2025
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#9
Trichlorofluoromethane
Concen: 1.864 ug/L
RT: 1.725 min Scan# 213
Delta R.T. 0.003 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion:101 Resp: 15887
Ion Ratio Lower Upper
101 100
103 68.3 51.7 77.5





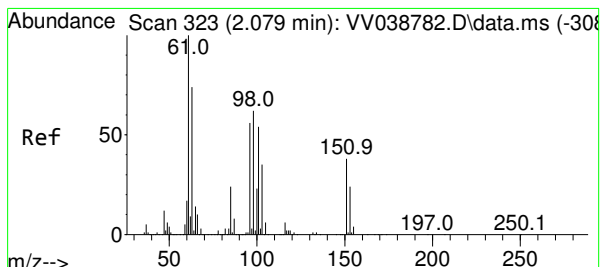
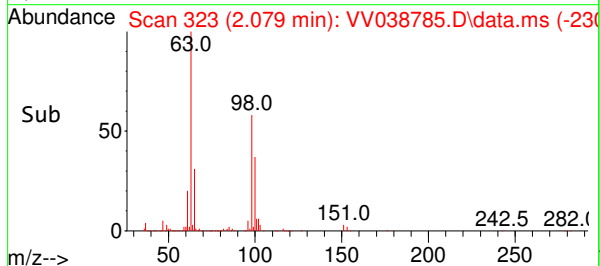
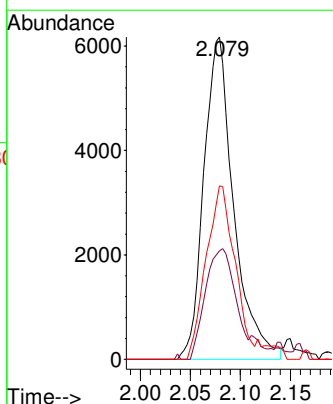
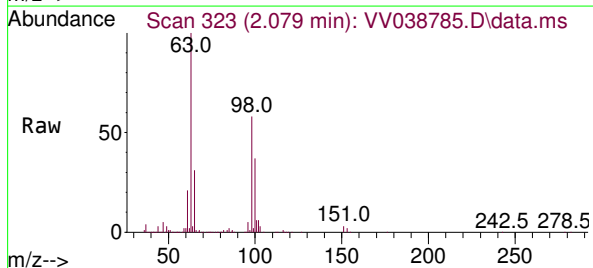
#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.544 ug/L
RT: 2.079 min Scan# 323
Delta R.T. 0.000 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion: 101 Resp: 1283
Ion Ratio Lower Upper
101 100
85 34.5 34.7 52.1
151 51.8 55.3 82.9

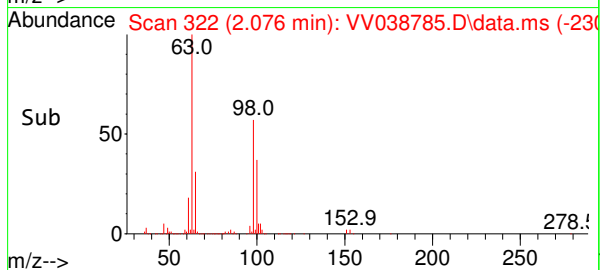
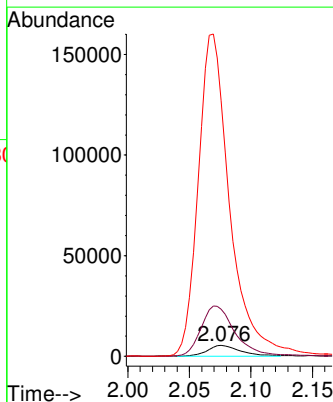
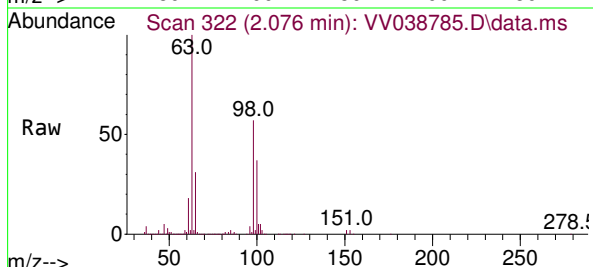
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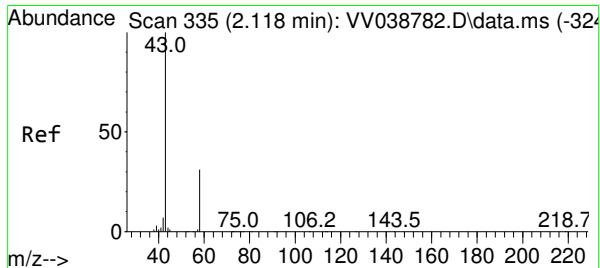
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#12
1,1-Dichloroethene
Concen: 2.159 ug/L
RT: 2.076 min Scan# 322
Delta R.T. -0.003 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion: 96 Resp: 9818
Ion Ratio Lower Upper
96 100
61 433.2 120.9 224.5#
63 2360.4 110.9 205.9#





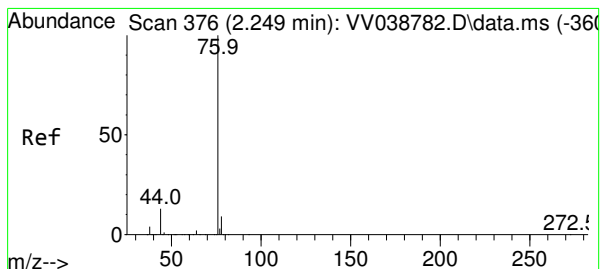
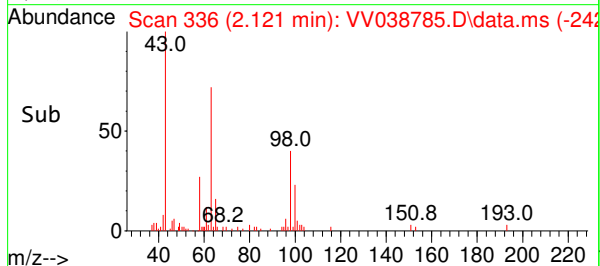
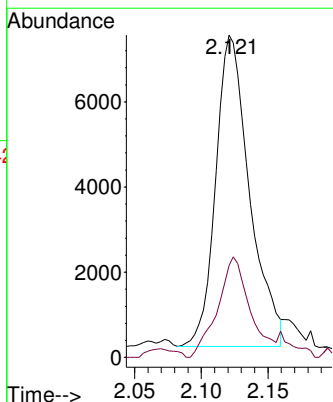
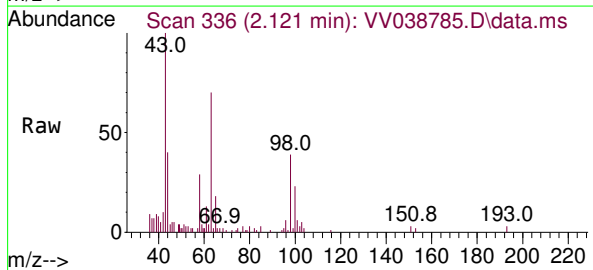
#13
Acetone
Concen: 5.591 ug/L
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV038785.D
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Tgt Ion: 43 Resp: 1287
Ion Ratio Lower Upper
43 100
58 31.0 0.0 67.2

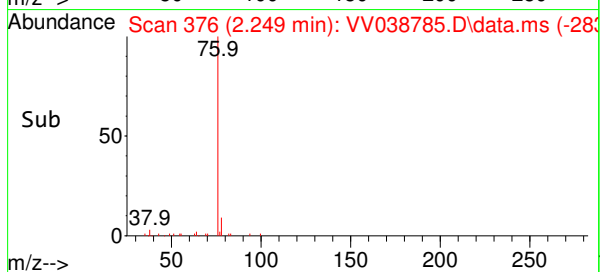
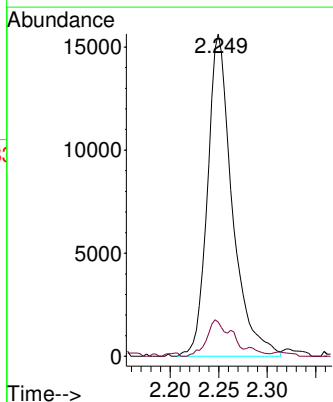
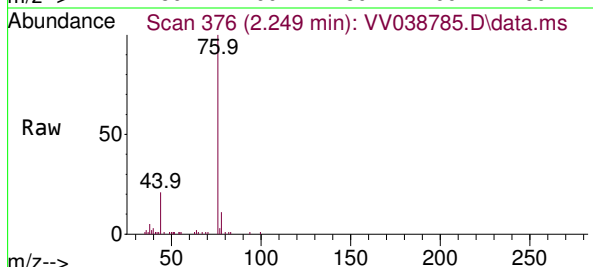
Manual Integrations
APPROVED

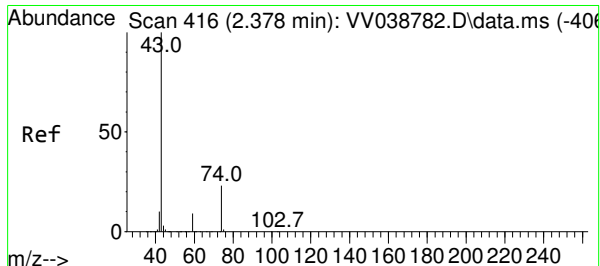
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#14
Carbon disulfide
Concen: 1.994 ug/L
RT: 2.249 min Scan# 376
Delta R.T. 0.000 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion: 76 Resp: 27724
Ion Ratio Lower Upper
76 100
78 10.7 7.4 11.0





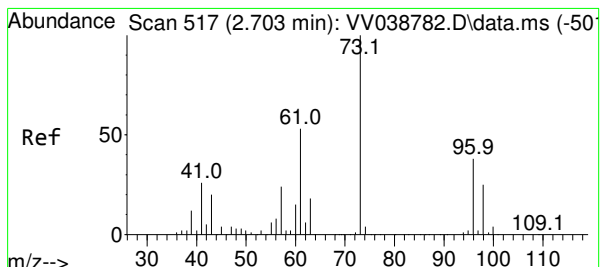
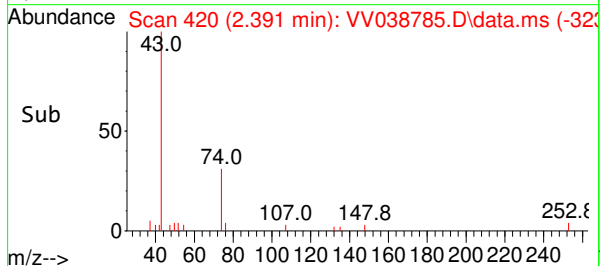
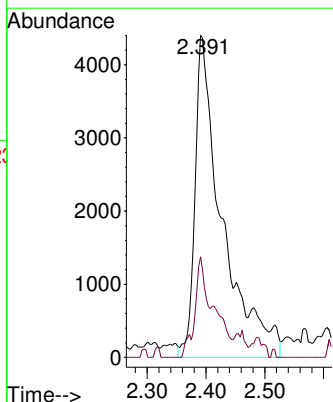
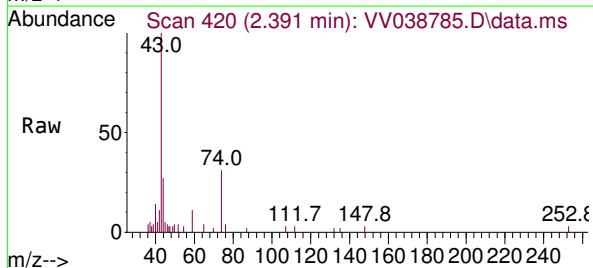
#15
Methyl Acetate
Concen: 2.293 ug/L m
RT: 2.391 min Scan# 416
Delta R.T. 0.013 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion: 43 Resp: 1402
Ion Ratio Lower Upper
43 100
74 0.7 20.6 31.6

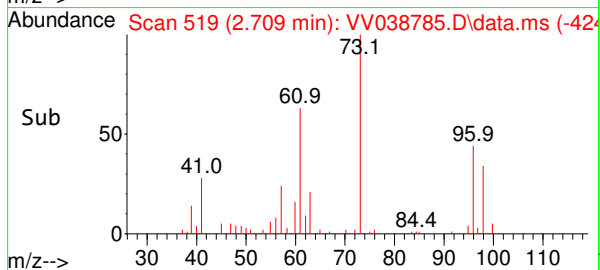
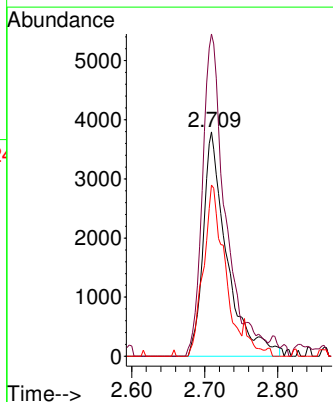
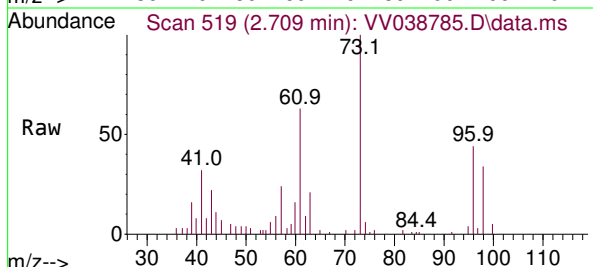
Manual Integrations
APPROVED

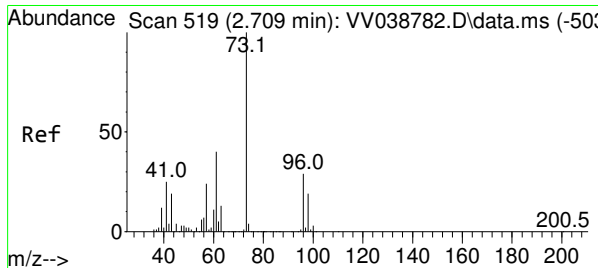
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#17
trans-1,2-Dichloroethene
Concen: 1.858 ug/L m
RT: 2.709 min Scan# 519
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion: 96 Resp: 8497
Ion Ratio Lower Upper
96 100
61 143.7 95.7 177.7
98 76.4 46.4 86.2





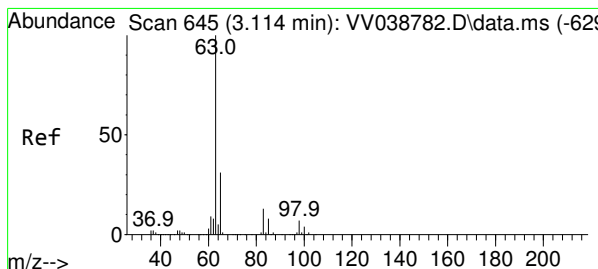
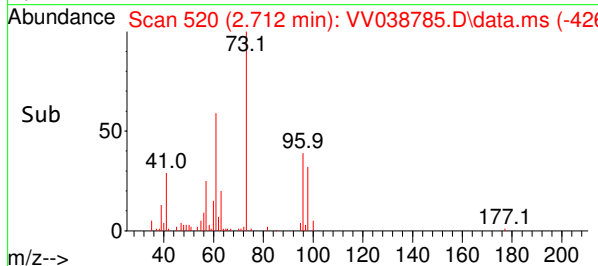
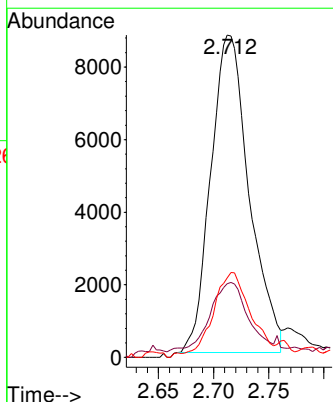
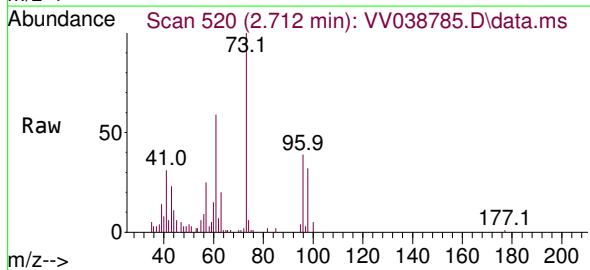
#18
Methyl tert-butyl Ether
Concen: 1.540 ug/L
RT: 2.712 min Scan# 519
Delta R.T. 0.003 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2025-04

Tgt Ion: 73 Resp: 2121
Ion Ratio Lower Upper
73 100
43 18.9 14.7 22.1
57 25.0 17.7 26.5

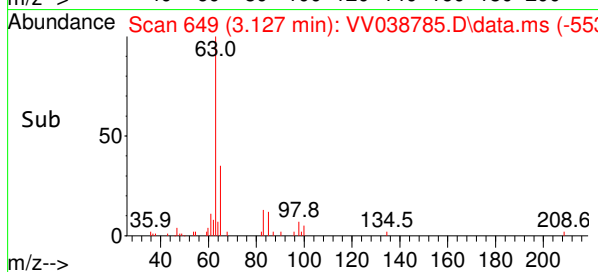
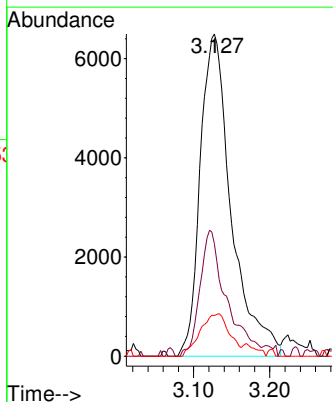
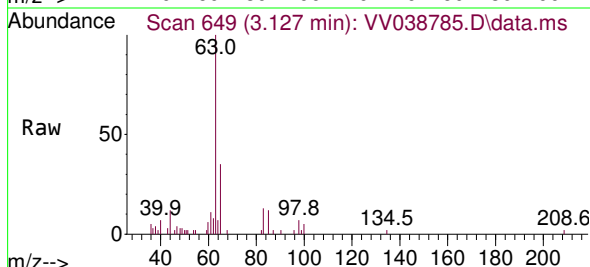
Manual Integrations
APPROVED

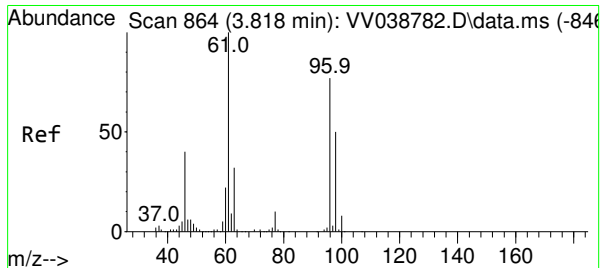
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#19
1,1-Dichloroethane
Concen: 1.940 ug/L
RT: 3.127 min Scan# 649
Delta R.T. 0.010 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion: 63 Resp: 18438
Ion Ratio Lower Upper
63 100
65 35.0 22.6 42.0
83 12.7 9.8 18.2





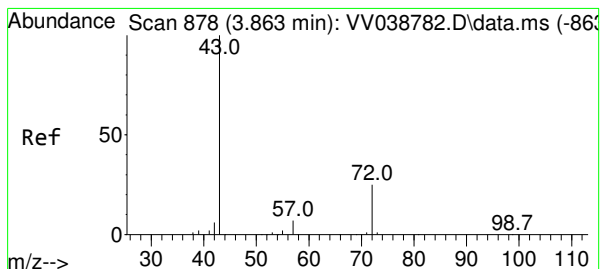
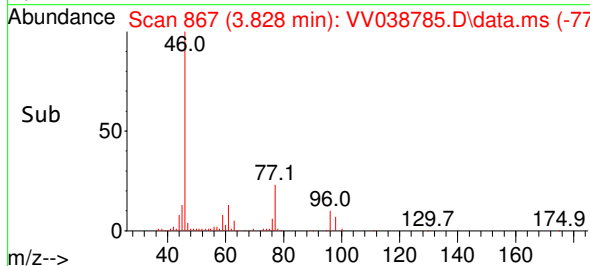
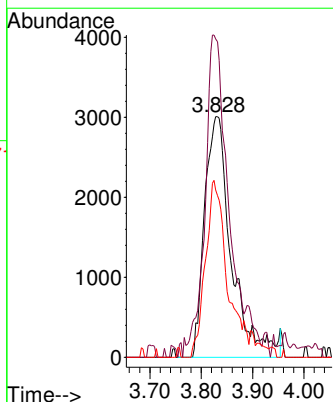
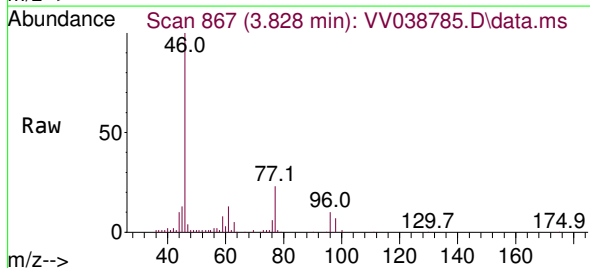
#20
cis-1,2-Dichloroethene
Concen: 2.211 ug/L m
RT: 3.828 min Scan# 864
Delta R.T. 0.010 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion: 96 Resp: 1086
Ion Ratio Lower Upper
96 100
61 132.3 83.5 155.1
98 69.5 44.6 82.8

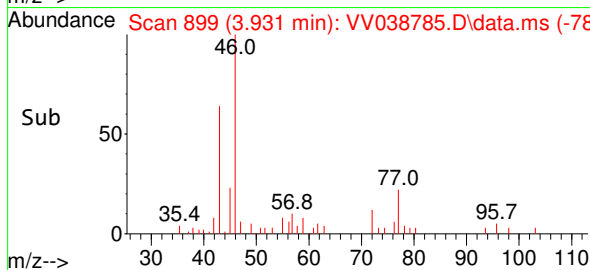
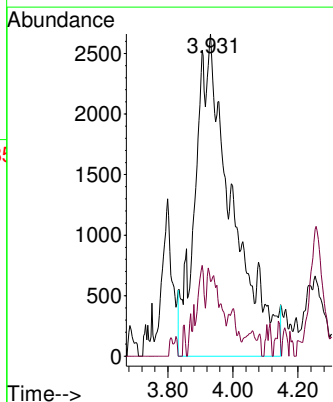
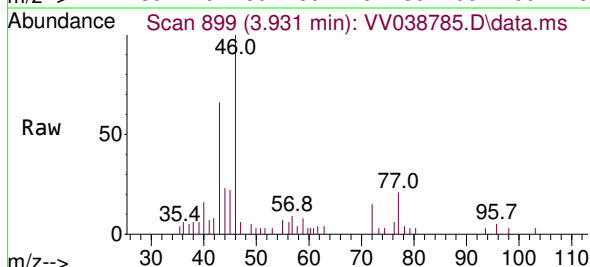
Manual Integrations
APPROVED

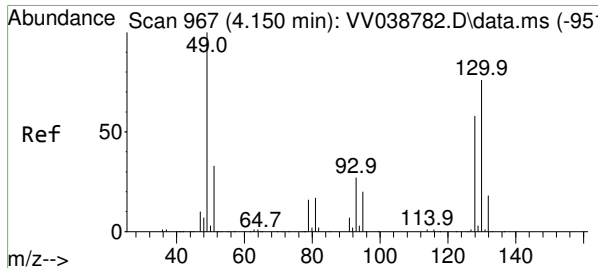
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#22
2-Butanone
Concen: 5.769 ug/L m
RT: 3.931 min Scan# 899
Delta R.T. 0.068 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

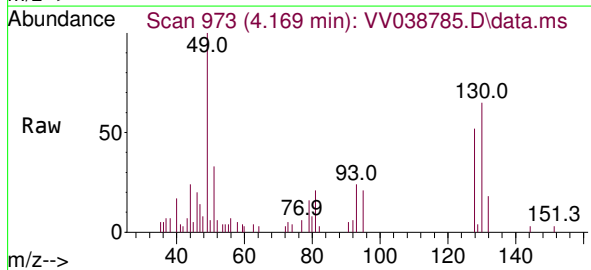
Tgt Ion: 43 Resp: 20847
Ion Ratio Lower Upper
43 100
72 2.7 12.5 37.5#





#23
Bromochloromethane
Concen: 2.095 ug/L m
RT: 4.169 min Scan# 967
Delta R.T. 0.019 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

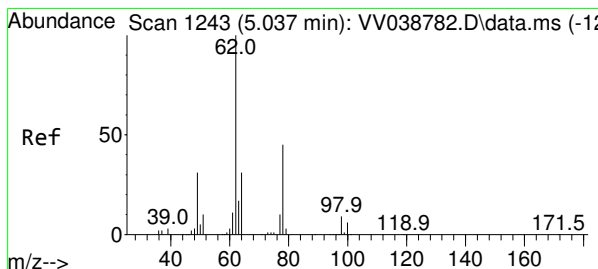
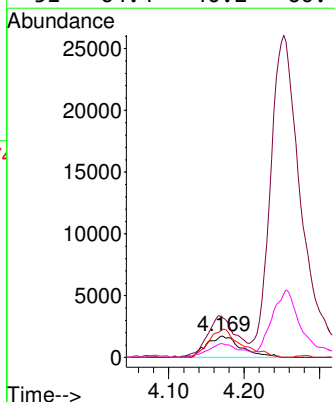
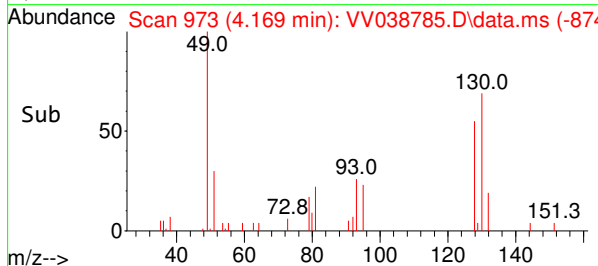
Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2025-04



Tgt Ion: 128 Resp: 549
Ion Ratio Lower Upper
128 100
49 193.1 106.7 198.3
130 124.6 93.2 173.2
51 64.4 40.2 60.4#

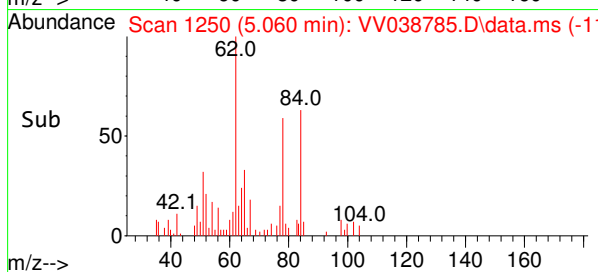
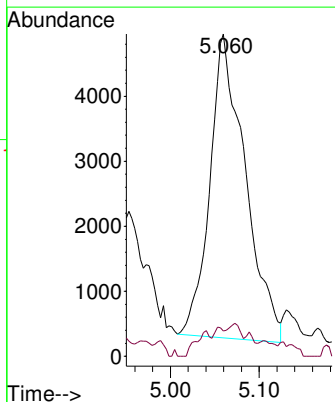
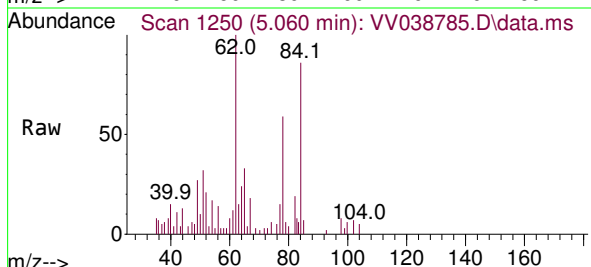
Manual Integrations
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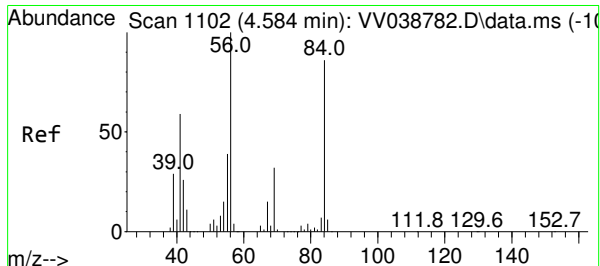
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#27
1,2-Dichloroethane
Concen: 1.824 ug/L
RT: 5.060 min Scan# 1250
Delta R.T. 0.019 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion: 62 Resp: 12896
Ion Ratio Lower Upper
62 100
98 7.9 7.5 11.3





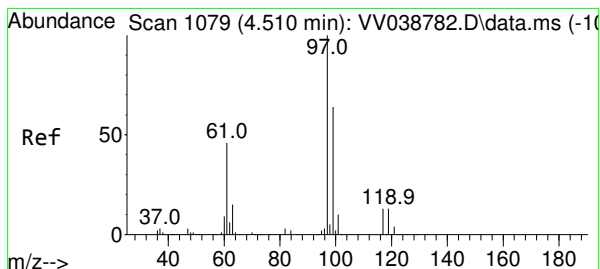
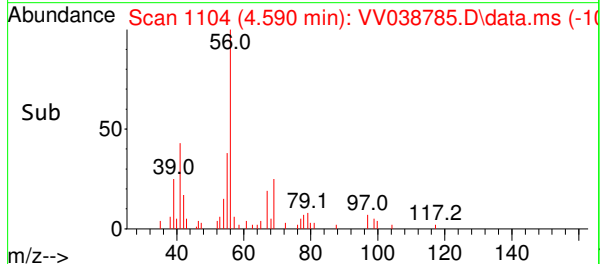
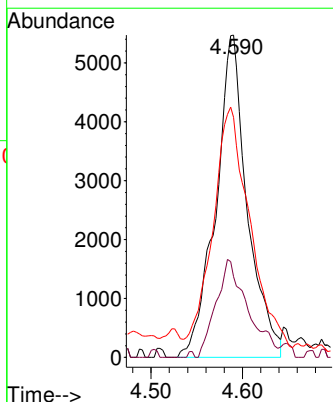
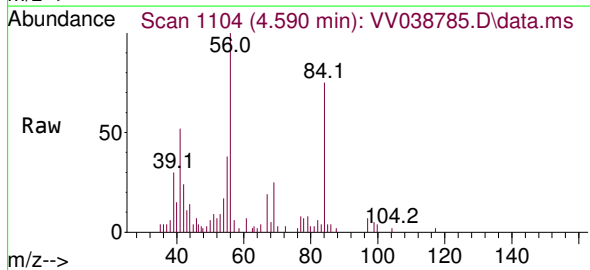
#29
Cyclohexane
Concen: 1.667 ug/L
RT: 4.590 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion: 56 Resp: 1316
Ion Ratio Lower Upper
56 100
69 28.4 24.8 37.2
84 86.6 73.7 110.5

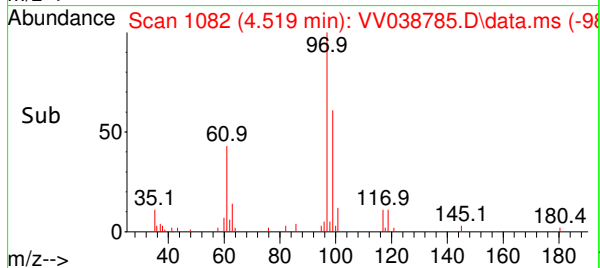
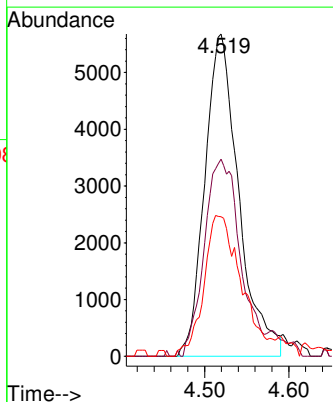
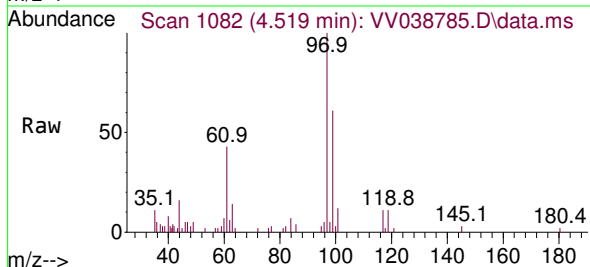
Manual Integrations
APPROVED

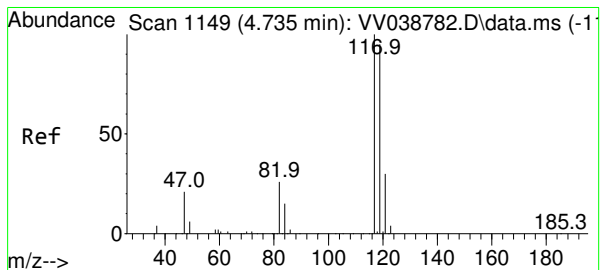
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#30
1,1,1-Trichloroethane
Concen: 1.960 ug/L
RT: 4.519 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion: 97 Resp: 15850
Ion Ratio Lower Upper
97 100
99 39.8 52.3 78.5#
61 28.5 33.6 50.4#





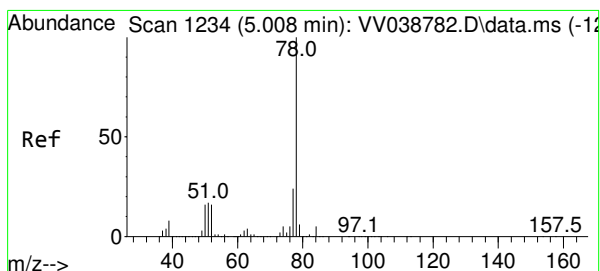
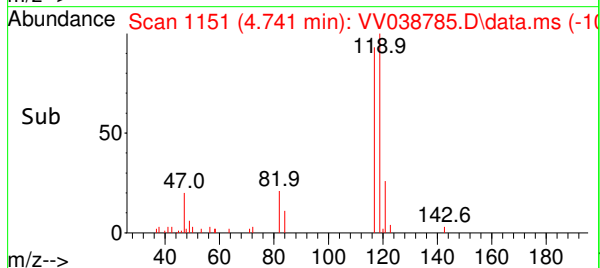
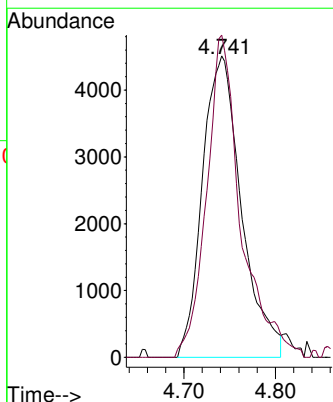
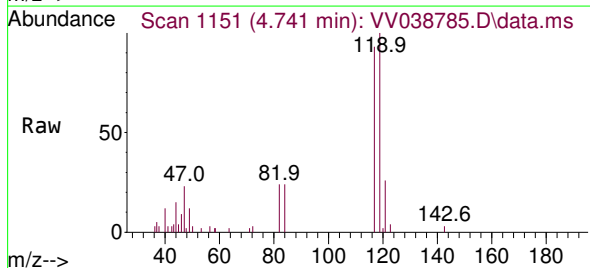
#31
Carbon tetrachloride
Concen: 1.906 ug/L
RT: 4.741 min Scan# 1149
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion:117 Resp: 1337
Ion Ratio Lower Upper
117 100
119 89.5 77.7 116.5

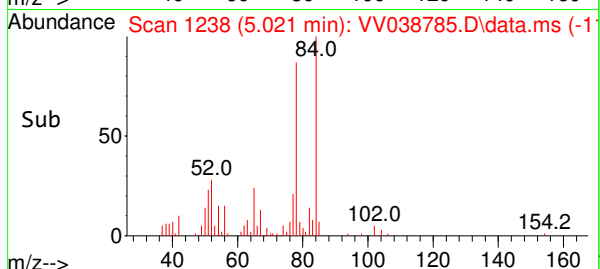
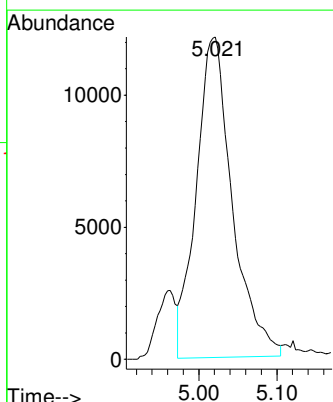
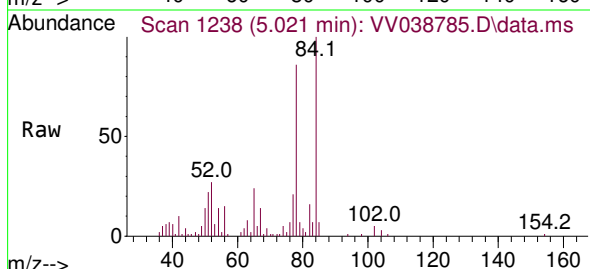
Manual Integrations
APPROVED

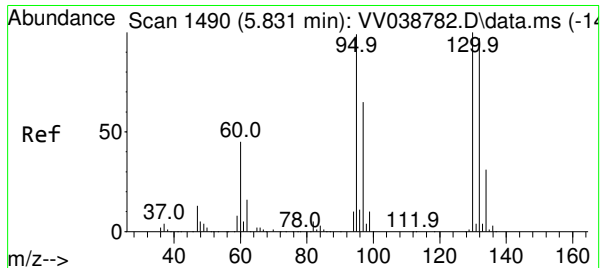
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#33
Benzene
Concen: 2.015 ug/L
RT: 5.021 min Scan# 1238
Delta R.T. 0.013 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion: 78 Resp: 38980





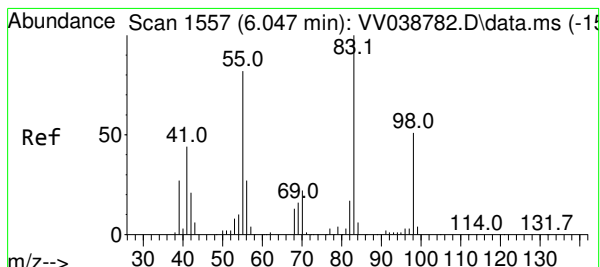
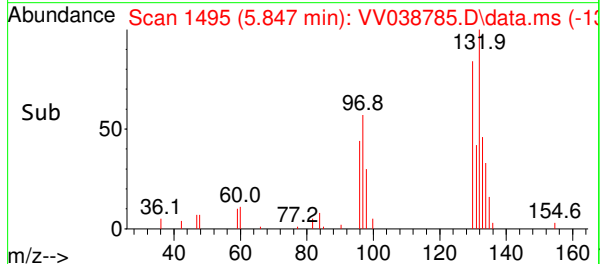
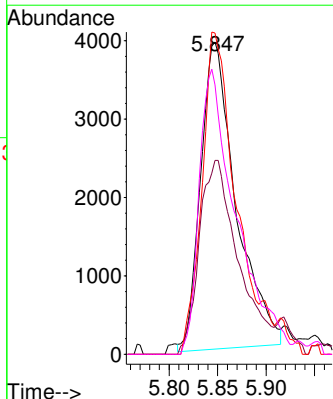
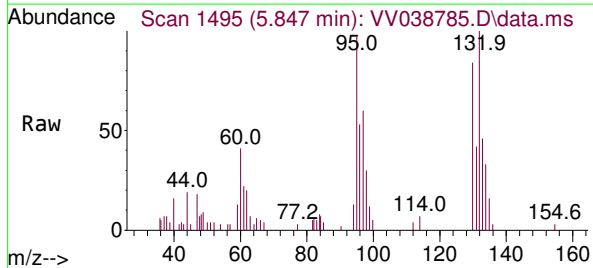
#34
Trichloroethene
Concen: 1.938 ug/L
RT: 5.847 min Scan# 1
Delta R.T. 0.016 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion:	95	Resp:	993
Ion	Ratio	Lower	Upper
95	100		
97	62.1	45.6	84.8
132	102.8	67.6	125.6
130	86.2	70.8	131.6

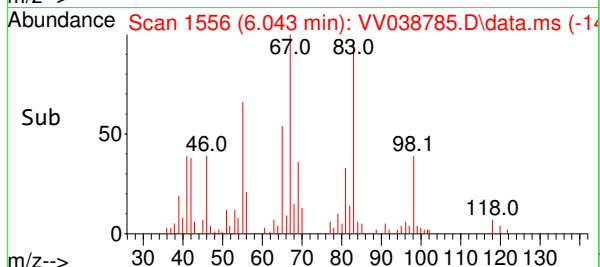
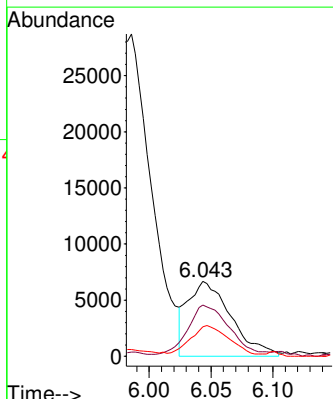
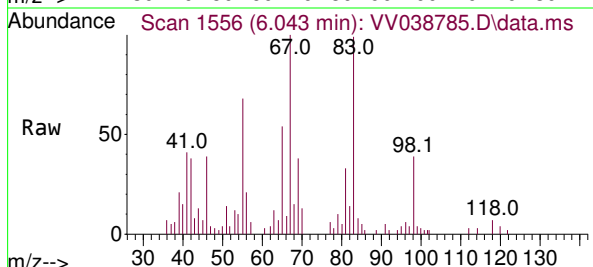
Manual Integrations
APPROVED

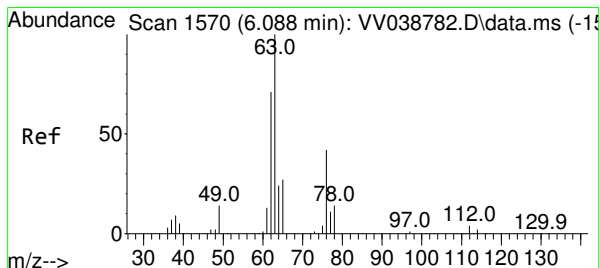
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#35
Methylcyclohexane
Concen: 2.025 ug/L m
RT: 6.043 min Scan# 1556
Delta R.T. -0.003 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion:	83	Resp:	16279
Ion	Ratio	Lower	Upper
83	100		
55	63.5	59.0	88.6
98	37.6	39.5	59.3#





#37

1,2-Dichloropropane

Concen: 1.462 ug/L

RT: 6.105 min Scan# 1

Delta R.T. 0.016 min

Lab File: VV038785.D

Acq: 11 Jun 2025 15:54

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2025-04

Tgt Ion: 63 Resp: 814

Ion Ratio Lower Upper

63 100

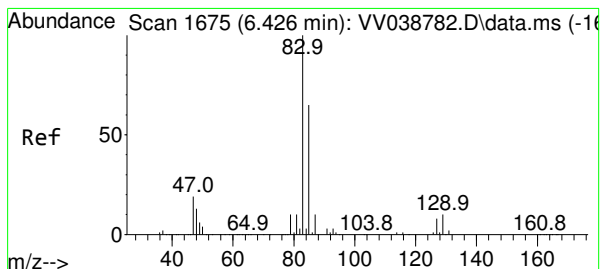
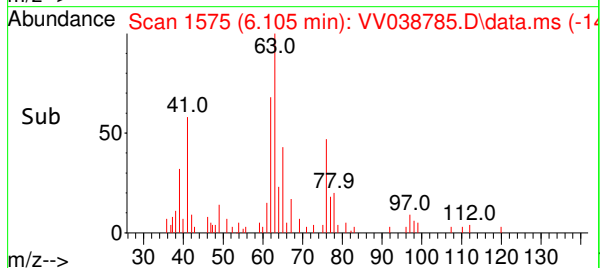
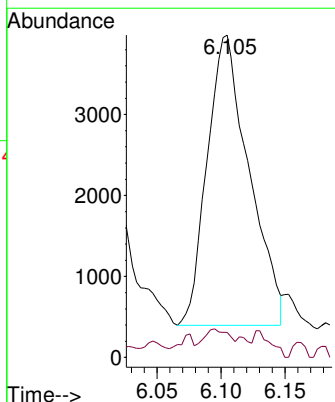
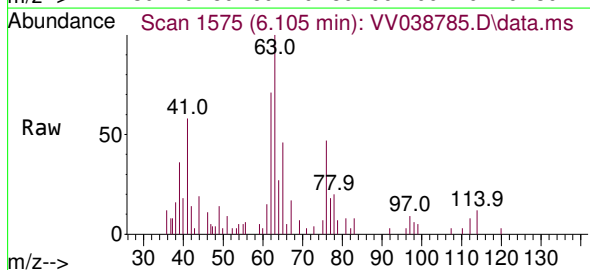
112 2.1 3.8 5.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/16/2025



#38

Bromodichloromethane

Concen: 2.027 ug/L m

RT: 6.449 min Scan# 1682

Delta R.T. 0.022 min

Lab File: VV038785.D

Acq: 11 Jun 2025 15:54

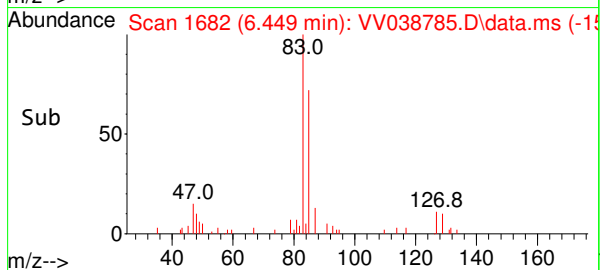
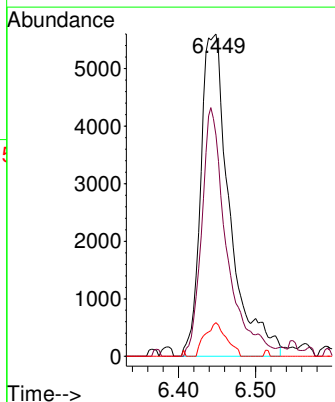
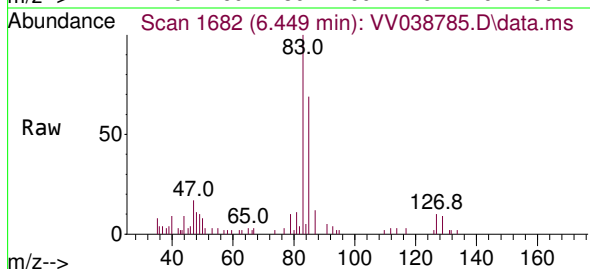
Tgt Ion: 83 Resp: 14652

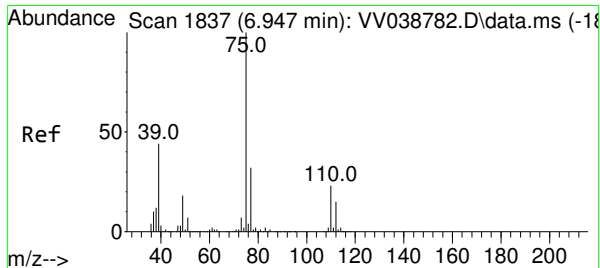
Ion Ratio Lower Upper

83 100

85 68.6 44.9 83.5

127 10.5 6.8 10.2#





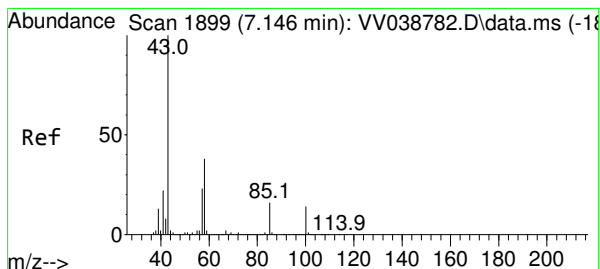
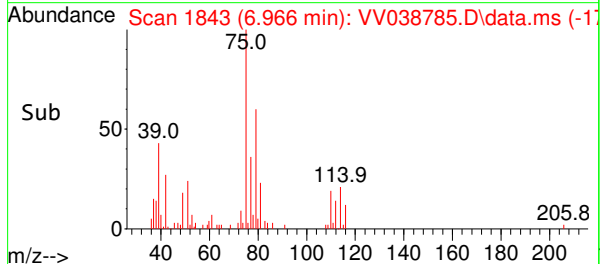
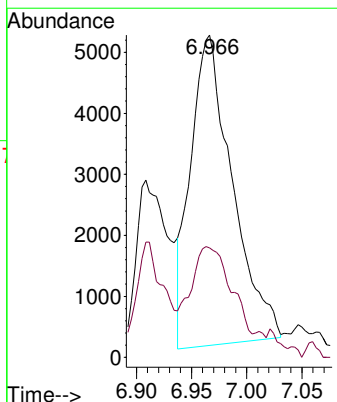
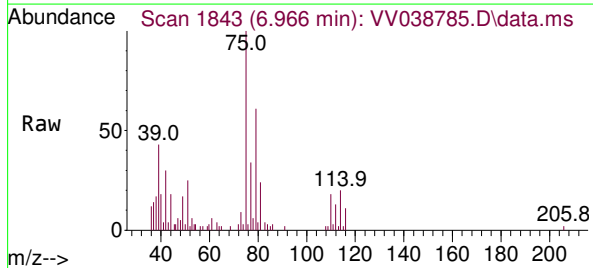
#39
 cis-1,3-Dichloropropene
 Concen: 1.668 ug/L
 RT: 6.966 min Scan# 1843
 Delta R.T. 0.019 min
 Lab File: VV038785.D
 Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
 ClientSampleId : VV038785.D
 MDL-WATER-QT2-2025-04

Tgt Ion: 75 Resp: 1335
 Ion Ratio Lower Upper
 75 100
 77 34.0 21.9 40.7

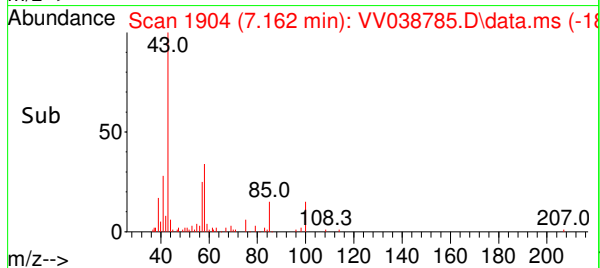
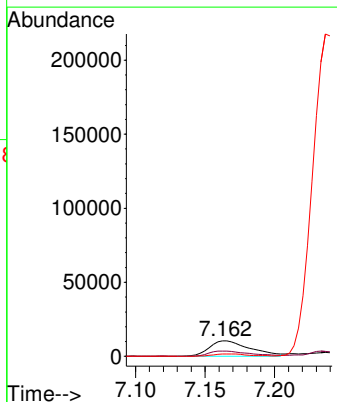
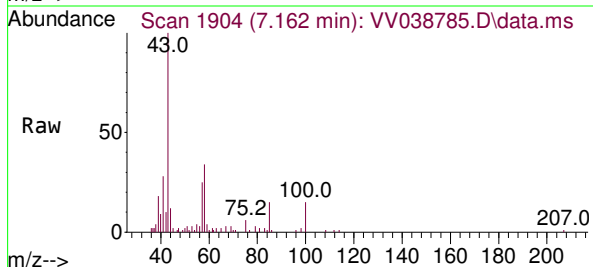
Manual Integrations
 APPROVED

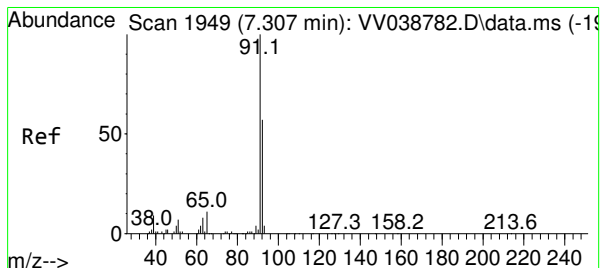
Reviewed By :John Carlone 06/12/2025
 Supervised By :Mahesh Dadoda 06/16/2025



#40
 4-Methyl-2-pentanone
 Concen: 2.792 ug/L
 RT: 7.162 min Scan# 1904
 Delta R.T. 0.016 min
 Lab File: VV038785.D
 Acq: 11 Jun 2025 15:54

Tgt Ion: 43 Resp: 21270
 Ion Ratio Lower Upper
 43 100
 58 33.9 32.7 49.1
 100 12.3 13.7 20.5#





#42

Toluene

Concen: 1.908 ug/L

RT: 7.323 min Scan# 1

Delta R.T. 0.016 min

Lab File: VV038785.D

Acq: 11 Jun 2025 15:54

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2025-04

Tgt Ion: 91 Resp: 3816

Ion Ratio Lower Upper

91 100

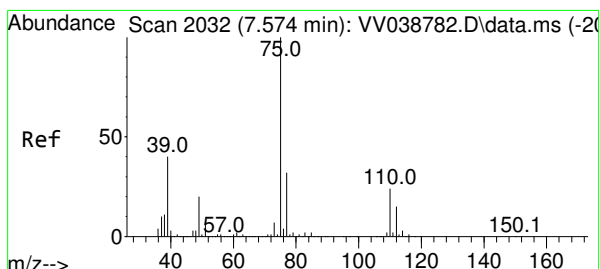
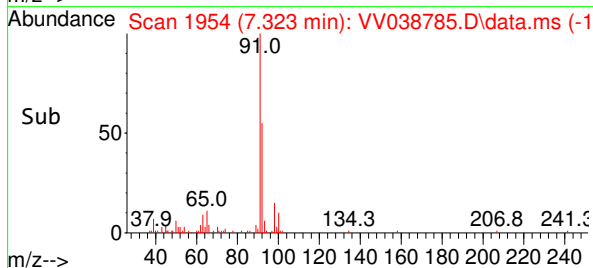
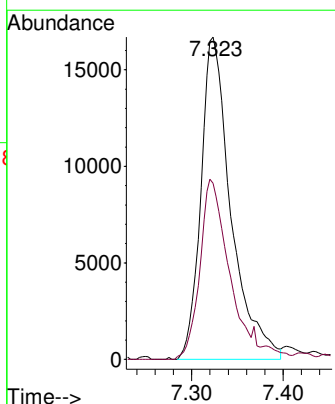
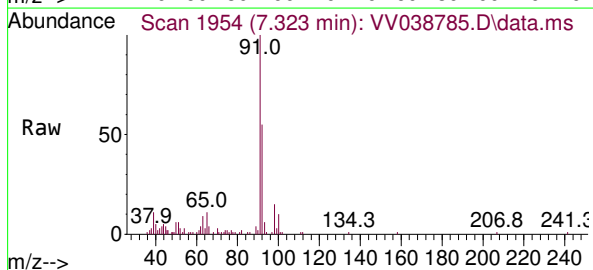
92 54.6 41.2 76.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/16/2025



#44

trans-1,3-Dichloropropene

Concen: 1.679 ug/L

RT: 7.590 min Scan# 2037

Delta R.T. 0.016 min

Lab File: VV038785.D

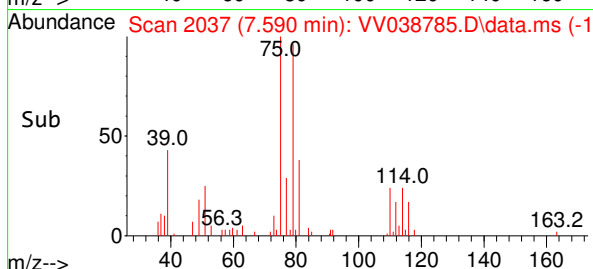
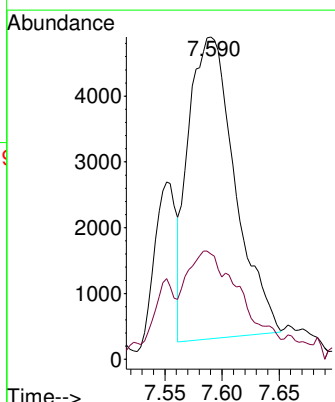
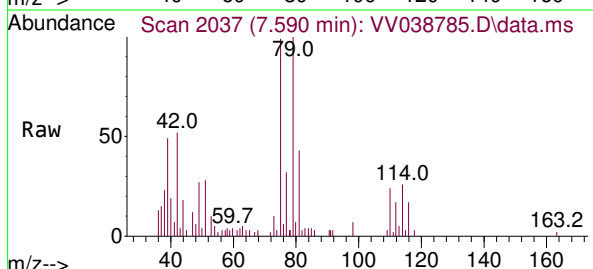
Acq: 11 Jun 2025 15:54

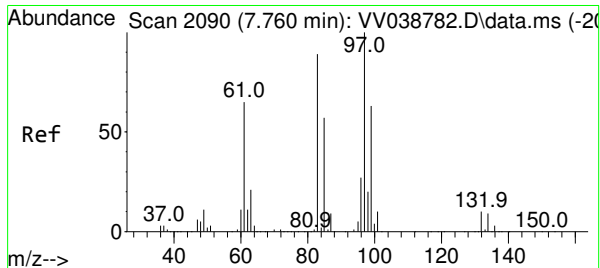
Tgt Ion: 75 Resp: 12972

Ion Ratio Lower Upper

75 100

77 32.7 22.7 42.1





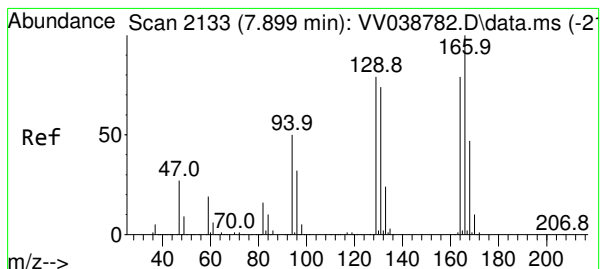
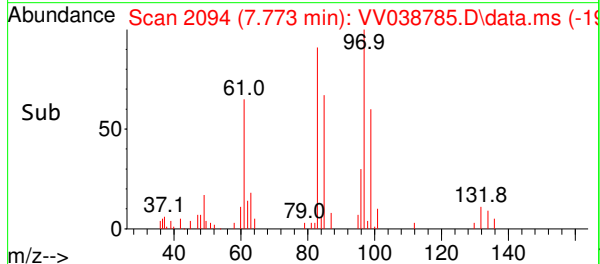
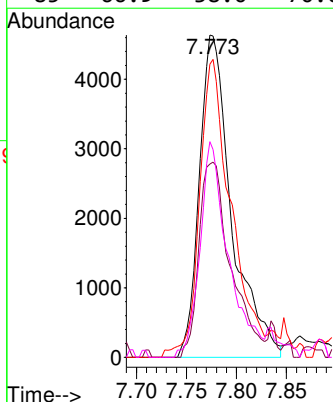
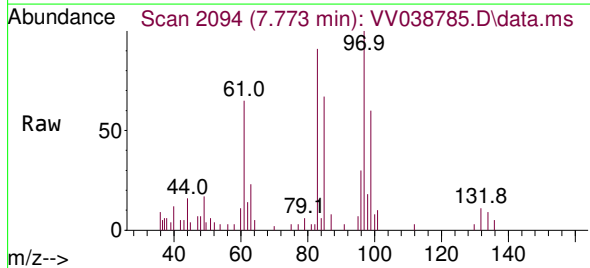
#45
1,1,2-Trichloroethane
Concen: 1.913 ug/L
RT: 7.773 min Scan# 2135
Delta R.T. 0.013 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.0	43.6	81.0
83	90.9	60.5	112.5
85	66.9	38.0	70.6

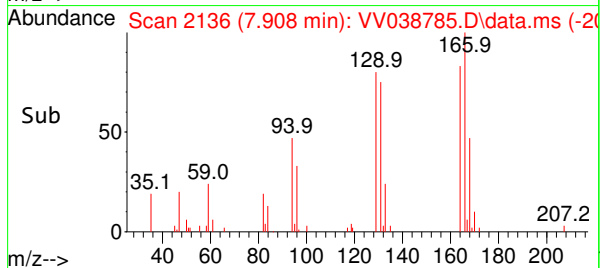
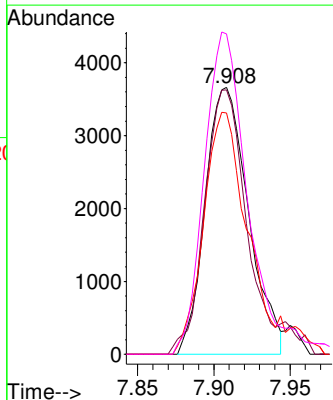
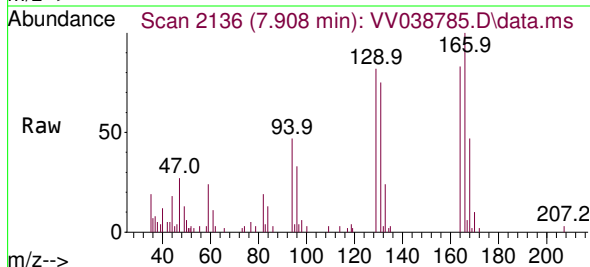
Manual Integrations
APPROVED

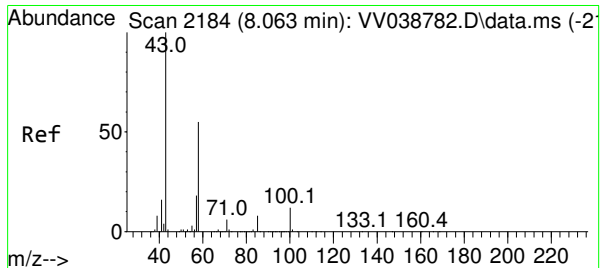
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#46
Tetrachloroethene
Concen: 1.915 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. 0.010 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion	Ratio	Lower	Upper
164	100		
129	99.0	69.2	128.4
131	90.3	63.1	117.3
166	120.0	89.7	166.5





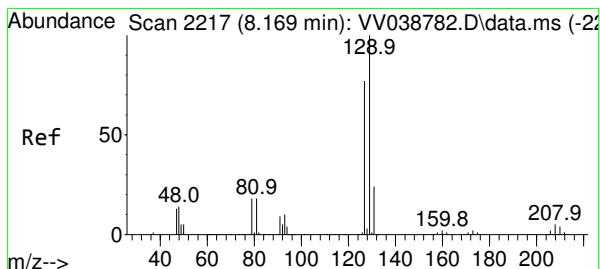
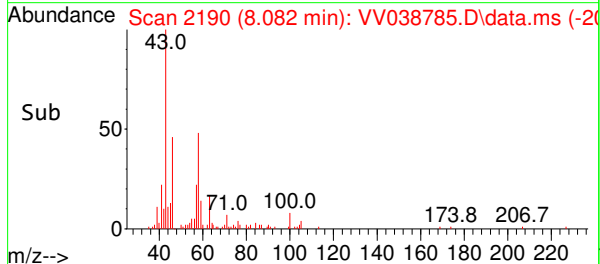
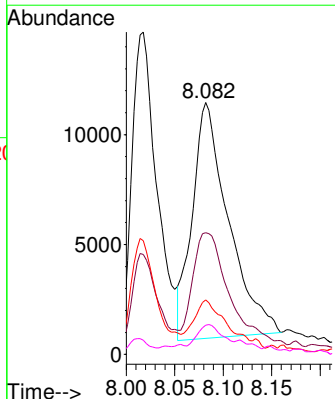
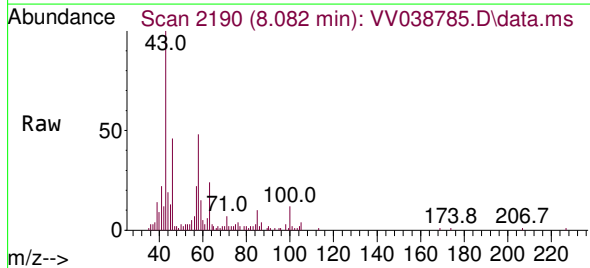
#48
2-Hexanone
Concen: 4.944 ug/L
RT: 8.082 min Scan# 2184
Delta R.T. 0.019 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion:	43	Resp:	2788
Ion	Ratio	Lower	Upper
43	100		
58	50.4	48.0	72.0
57	19.1	15.5	23.3
100	5.7	11.0	16.4

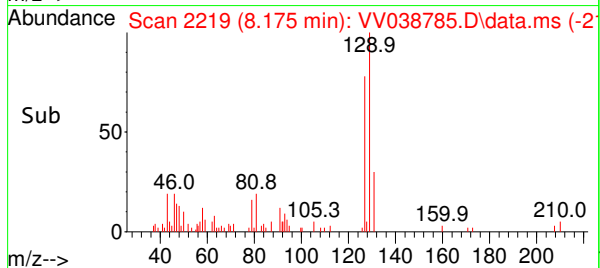
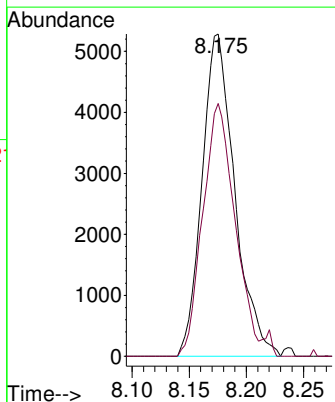
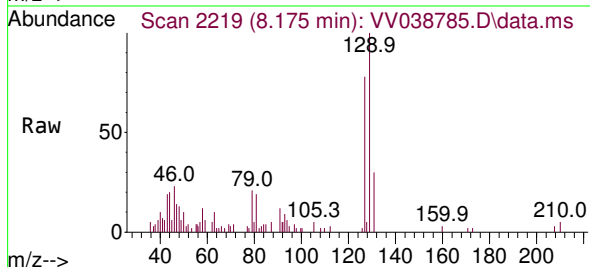
Manual Integrations
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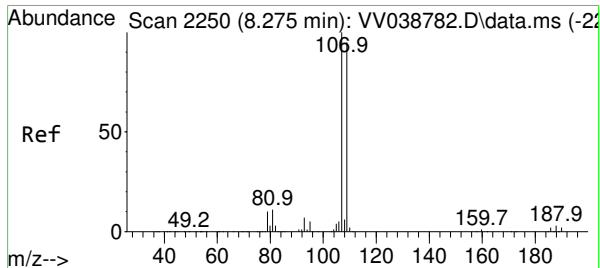
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#49
Dibromochloromethane
Concen: 1.894 ug/L
RT: 8.175 min Scan# 2219
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion:	129	Resp:	10508
Ion	Ratio	Lower	Upper
129	100		
127	78.4	53.8	100.0





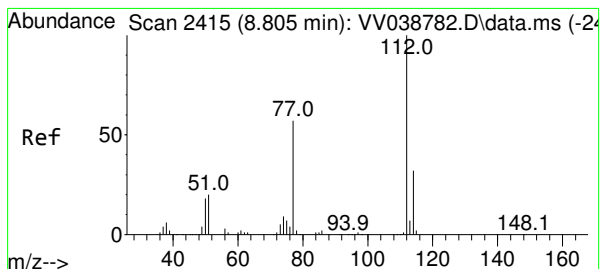
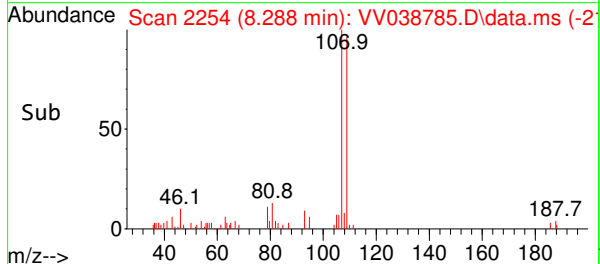
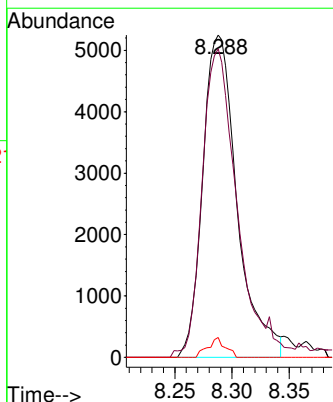
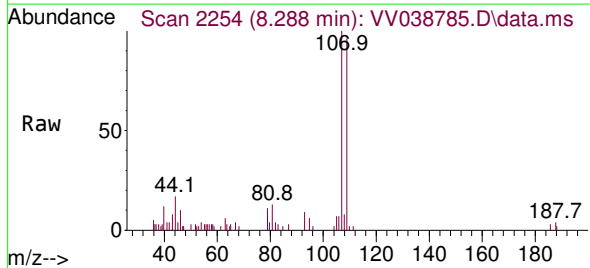
#50
1,2-Dibromoethane
Concen: 1.959 ug/L
RT: 8.288 min Scan# 2154
Delta R.T. 0.016 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2025-04

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.7	66.1	122.7
188	6.2	2.6	3.8

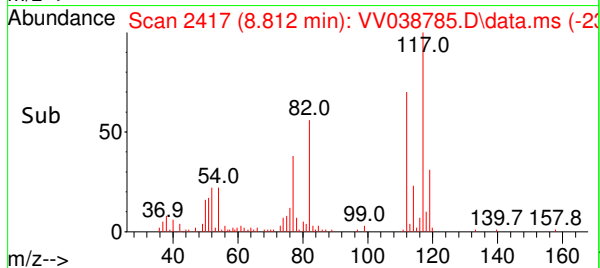
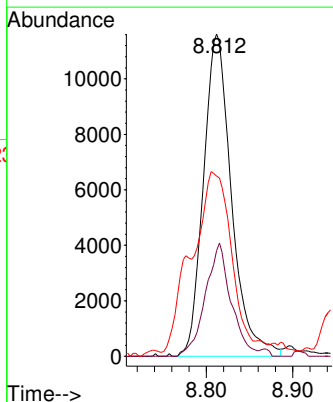
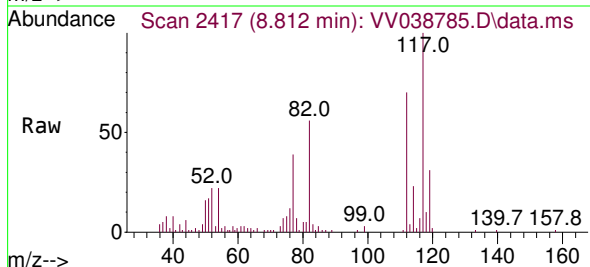
Manual Integrations
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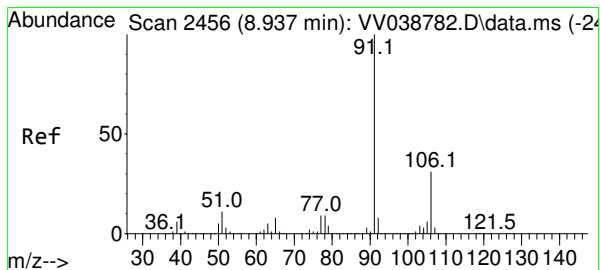
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#51
Chlorobenzene
Concen: 1.945 ug/L
RT: 8.812 min Scan# 2417
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.8	21.9	40.7
77	55.9	45.4	68.0





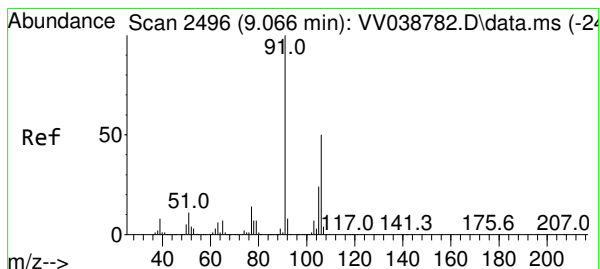
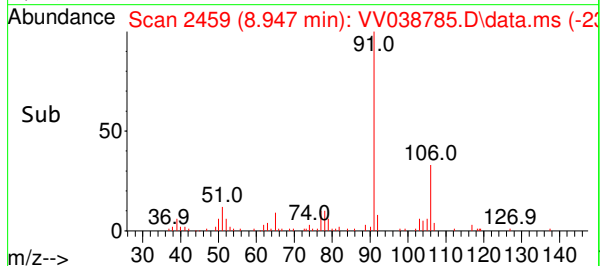
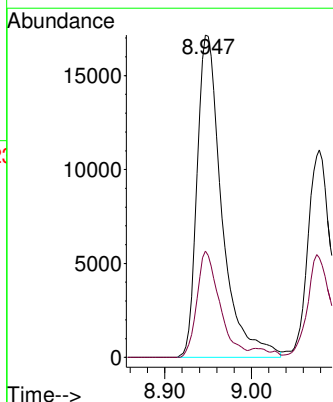
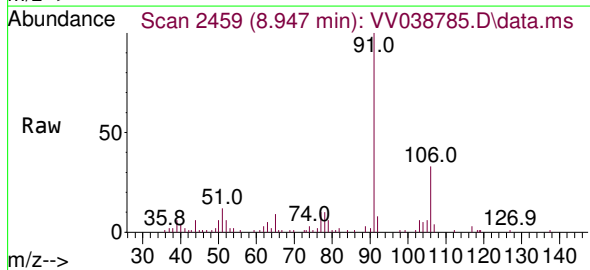
#52
Ethylbenzene
Concen: 1.586 ug/L
RT: 8.947 min Scan# 2456
Delta R.T. 0.010 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2025-04

Tgt Ion: 91 Resp: 3412
Ion Ratio Lower Upper
91 100
106 33.0 21.6 40.6

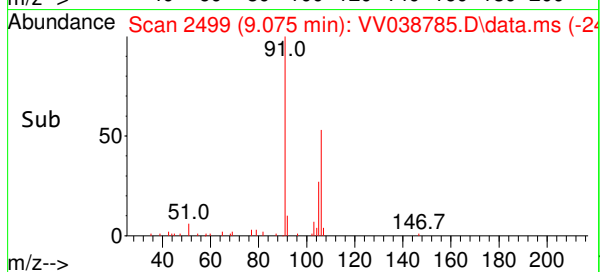
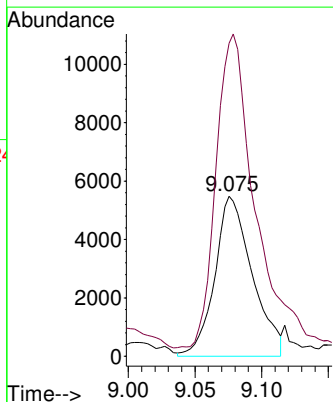
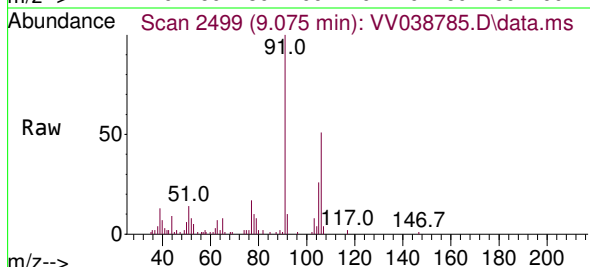
Manual Integrations
APPROVED

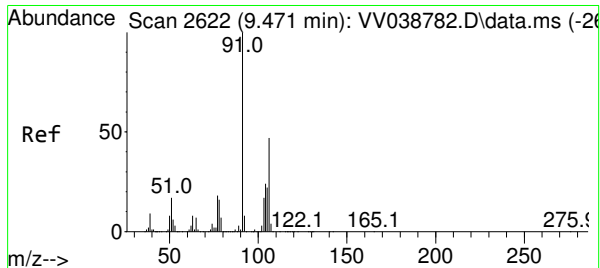
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#53
m,p-Xylene
Concen: 1.354 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. 0.013 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion:106 Resp: 10689
Ion Ratio Lower Upper
106 100
91 195.5 142.6 264.8





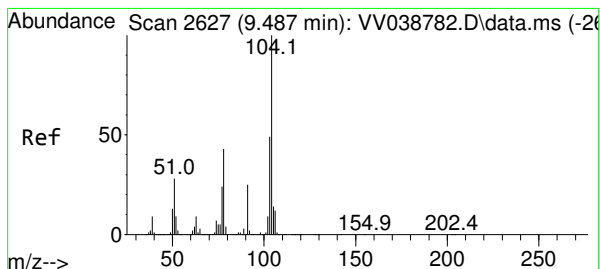
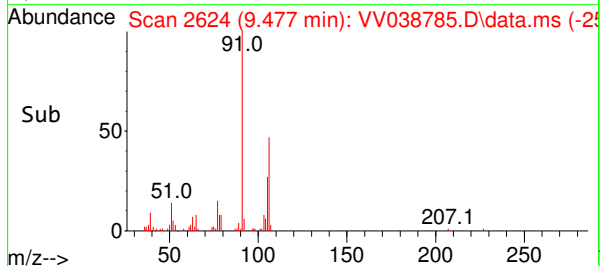
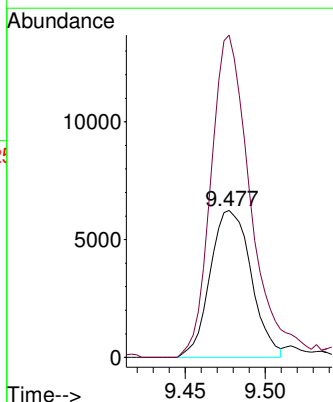
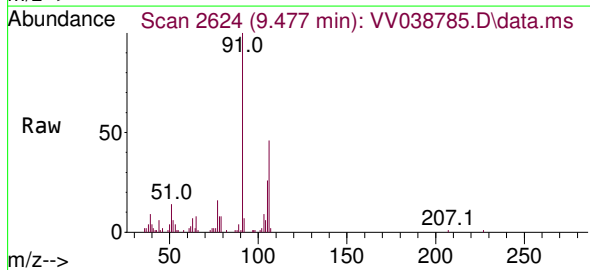
#54
o-Xylene
Concen: 1.459 ug/L
RT: 9.477 min Scan# 2622
Delta R.T. 0.010 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion:106 Resp: 1114
Ion Ratio Lower Upper
106 100
91 219.6 151.1 280.7

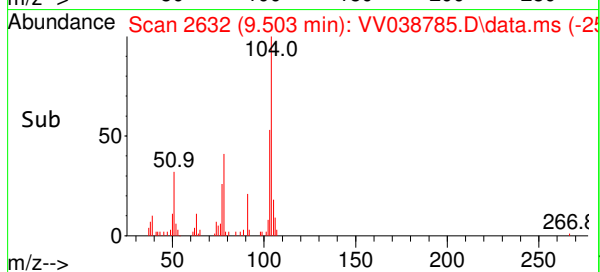
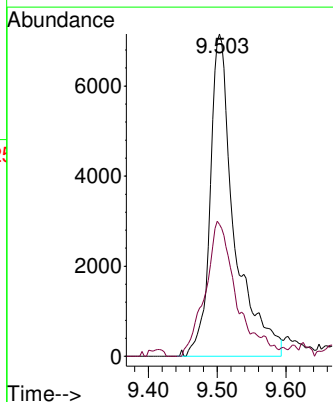
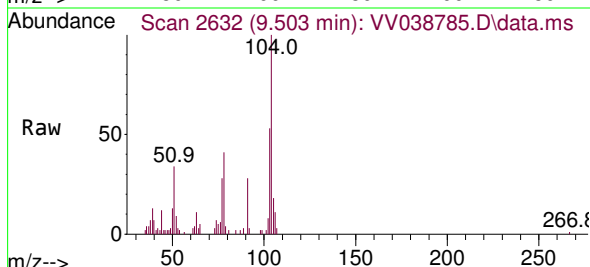
Manual Integrations
APPROVED

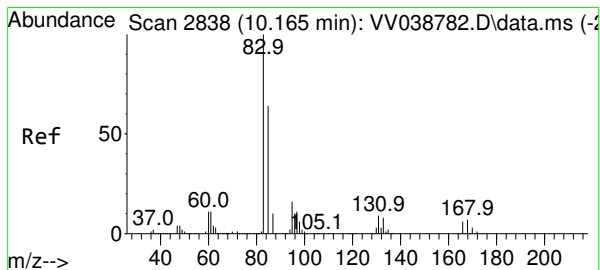
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#55
Styrene
Concen: 1.317 ug/L m
RT: 9.503 min Scan# 2632
Delta R.T. 0.019 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion:104 Resp: 17526
Ion Ratio Lower Upper
104 100
78 40.9 29.7 55.1





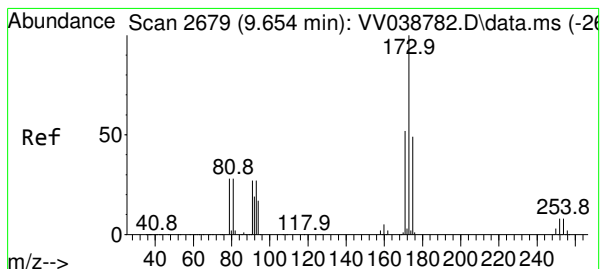
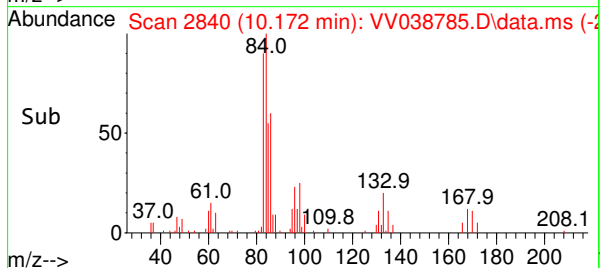
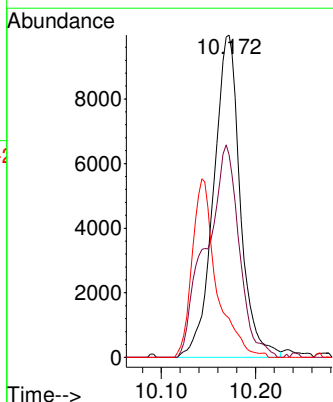
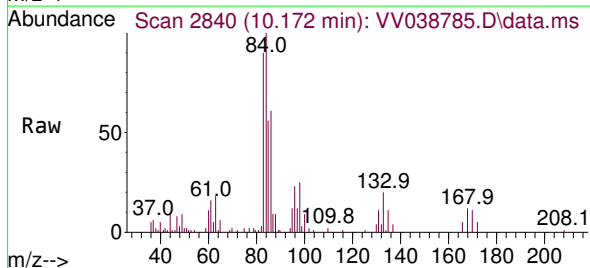
#57
1,1,2,2-Tetrachloroethane
Concen: 2.182 ug/L
RT: 10.172 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion: 83 Resp: 1967
Ion Ratio Lower Upper
83 100
85 62.9 44.7 82.9
131 12.2 8.0 12.6

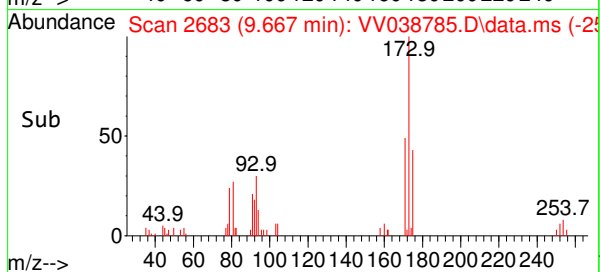
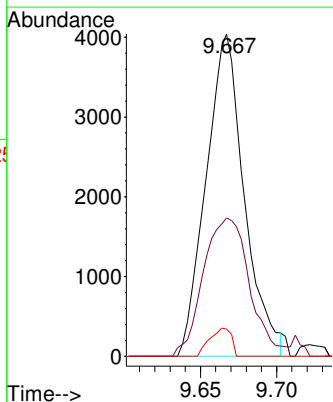
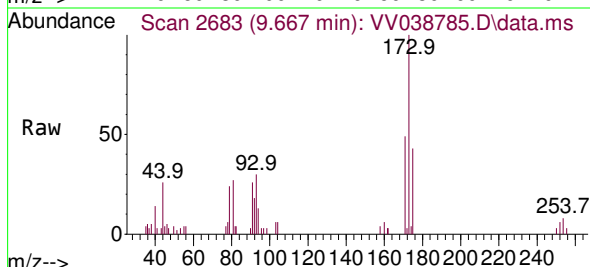
Manual Integrations
APPROVED

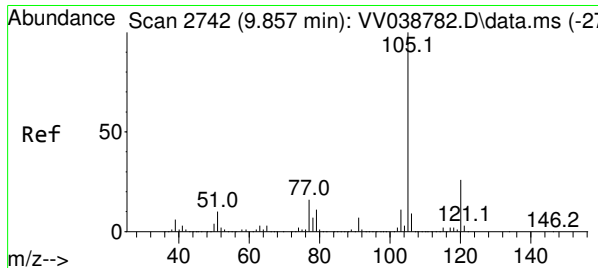
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#59
Bromoform
Concen: 2.053 ug/L
RT: 9.667 min Scan# 2683
Delta R.T. 0.013 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion:173 Resp: 7032
Ion Ratio Lower Upper
173 100
175 52.2 38.8 58.2
254 4.9 6.9 10.3#





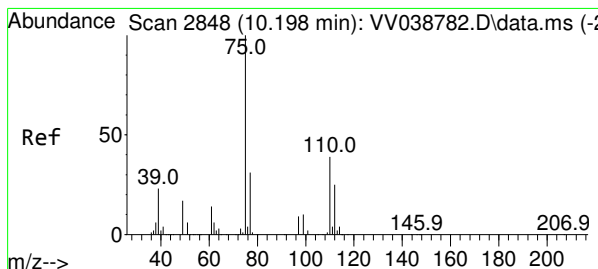
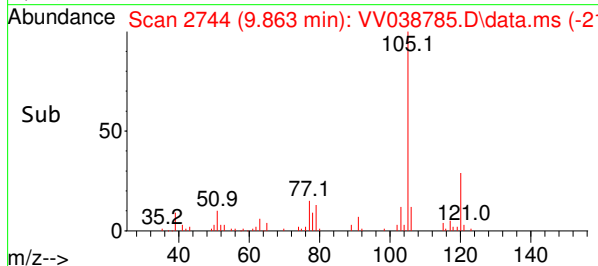
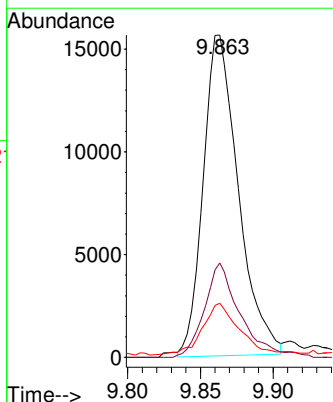
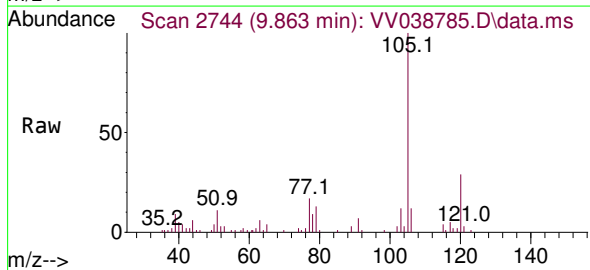
#60
Isopropylbenzene
Concen: 1.501 ug/L
RT: 9.863 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion:	105	Resp:	2625
Ion Ratio	Lower	Upper	
105	100		
120	29.2	21.0	31.4
77	14.2	12.2	18.4

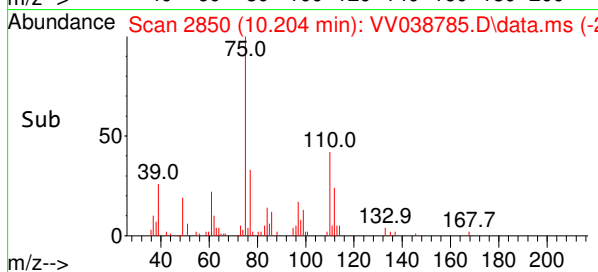
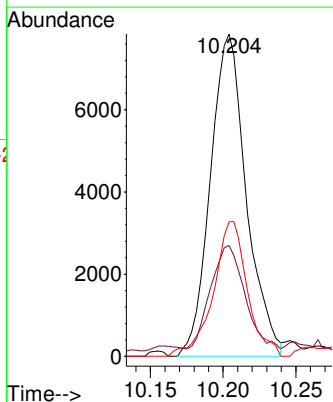
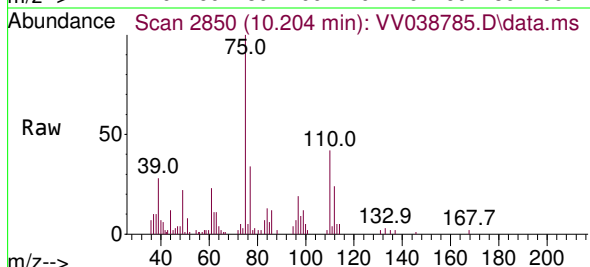
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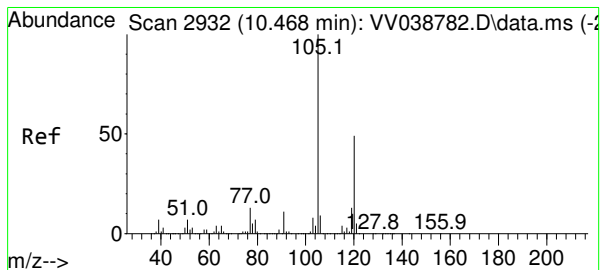
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#61
1,2,3-Trichloropropane
Concen: 2.248 ug/L
RT: 10.204 min Scan# 2850
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion:	75	Resp:	13487
Ion Ratio	Lower	Upper	
75	100		
77	31.4	25.8	38.6
110	39.5	32.2	48.4





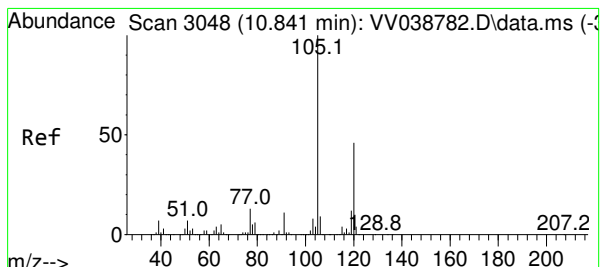
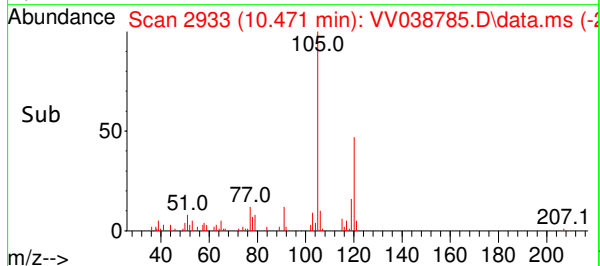
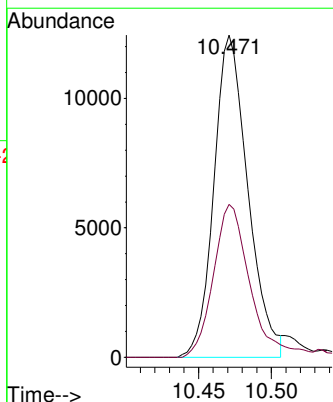
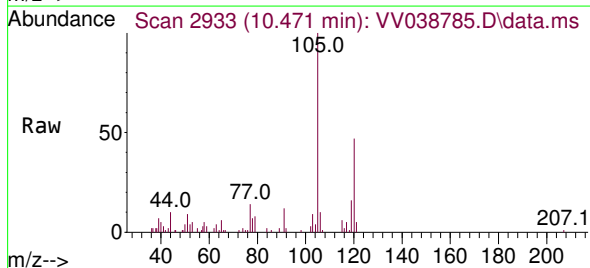
#62
1,3,5-Trimethylbenzene
Concen: 1.483 ug/L
RT: 10.471 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2025-04

Tgt Ion:105 Resp: 2018
Ion Ratio Lower Upper
105 100
120 51.3 39.1 58.7

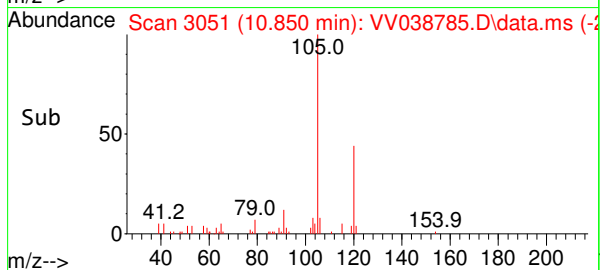
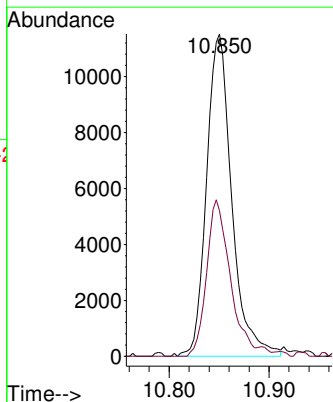
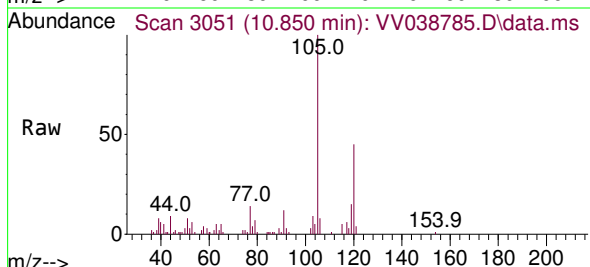
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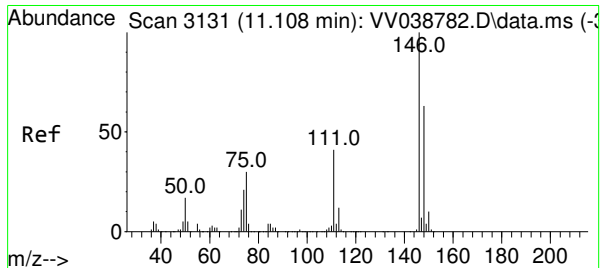
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#63
1,2,4-Trimethylbenzene
Concen: 1.506 ug/L
RT: 10.850 min Scan# 3051
Delta R.T. 0.010 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion:105 Resp: 20250
Ion Ratio Lower Upper
105 100
120 45.1 36.6 55.0





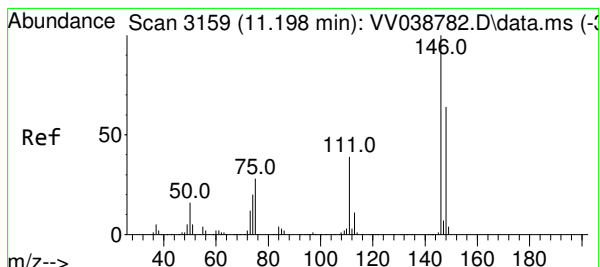
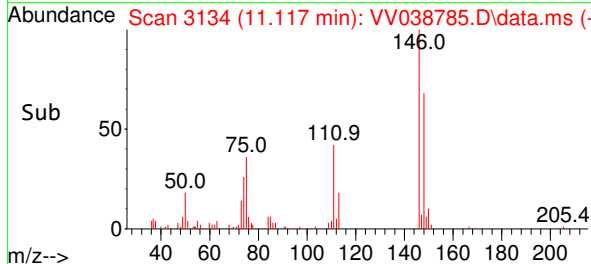
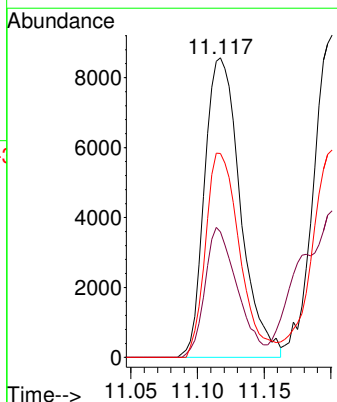
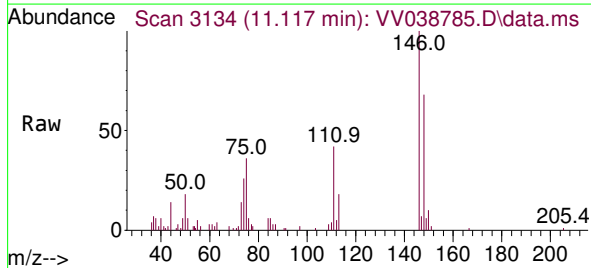
#64
 1,3-Dichlorobenzene
 Concen: 1.909 ug/L
 RT: 11.117 min Scan# 3134
 Delta R.T. 0.013 min
 Lab File: VV038785.D
 Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
 ClientSampleId :
 MDL-WATER-QT2-2025-04

Tgt Ion:	146	Resp:	1594
Ion Ratio	Lower	Upper	
146	100		
111	41.9	27.8	51.6
148	68.1	45.1	83.7

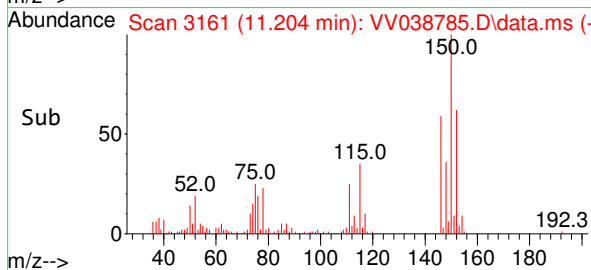
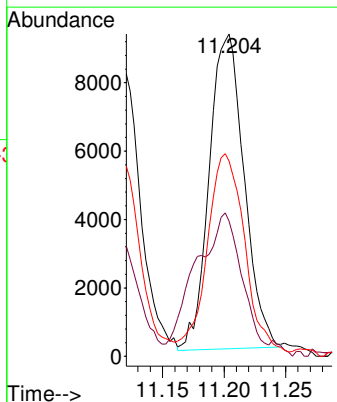
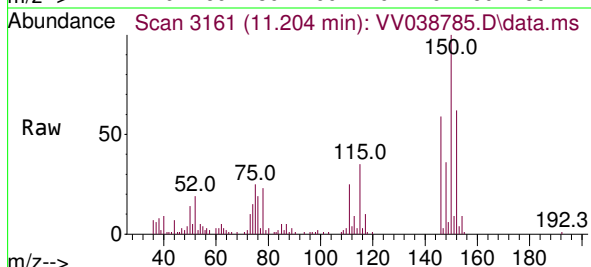
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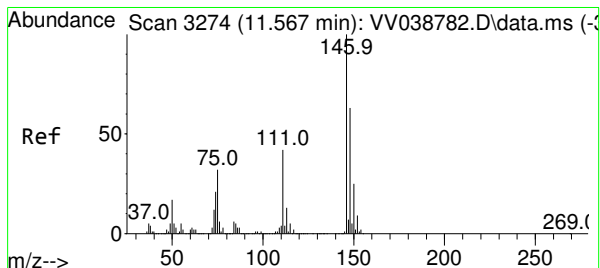
Reviewed By :John Carlone 06/12/2025
 Supervised By :Mahesh Dadoda 06/16/2025



#65
 1,4-Dichlorobenzene
 Concen: 2.017 ug/L
 RT: 11.204 min Scan# 3161
 Delta R.T. 0.006 min
 Lab File: VV038785.D
 Acq: 11 Jun 2025 15:54

Tgt Ion:	146	Resp:	18140
Ion Ratio	Lower	Upper	
146	100		
111	41.9	27.6	51.4
148	60.6	44.9	83.3





#67

1,2-Dichlorobenzene

Concen: 2.204 ug/L

RT: 11.567 min Scan# 3

Delta R.T. 0.000 min

Lab File: VV038785.D

Acq: 11 Jun 2025 15:54

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-QT2-2025-04

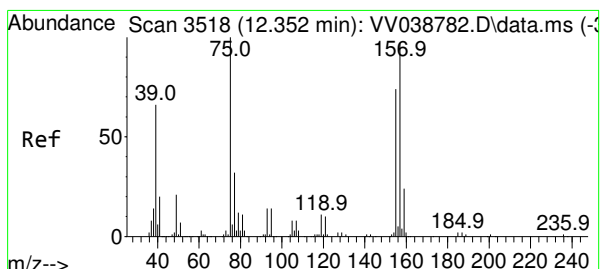
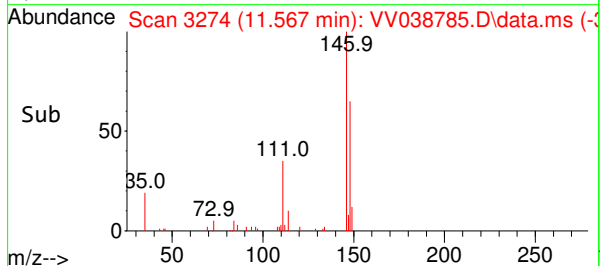
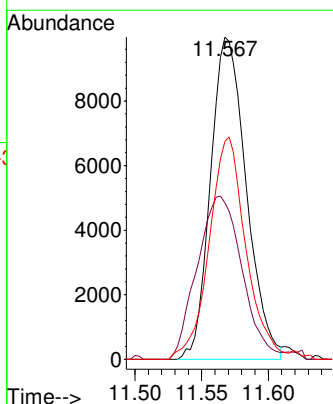
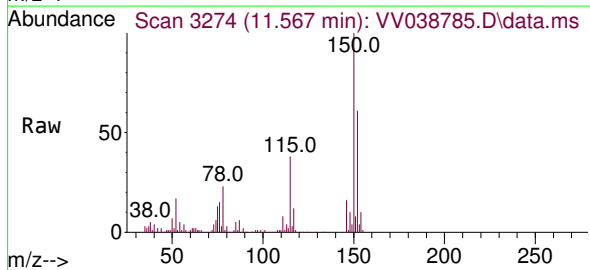
Tgt Ion:	146	Resp:	1860
Ion	Ratio	Lower	Upper
146	100		
111	48.6	34.2	51.2
148	67.6	50.5	75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/16/2025



#68

1,2-Dibromo-3-chloropropane

Concen: 2.337 ug/L

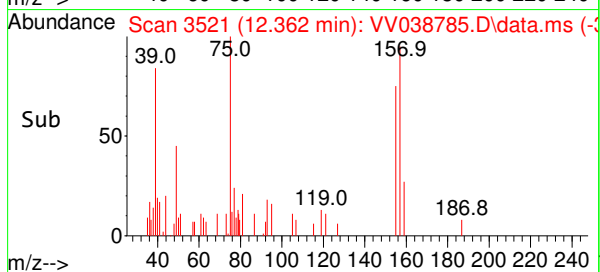
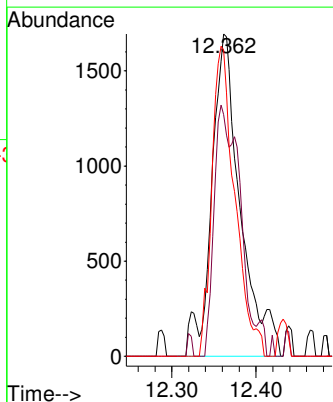
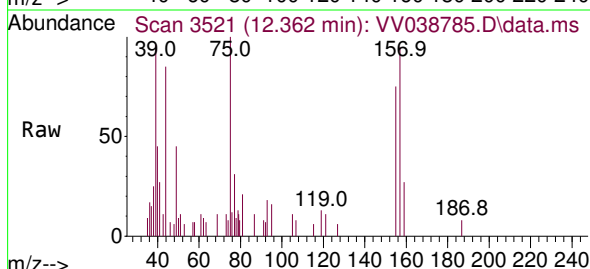
RT: 12.362 min Scan# 3521

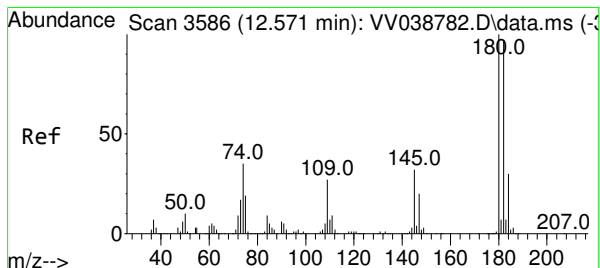
Delta R.T. 0.010 min

Lab File: VV038785.D

Acq: 11 Jun 2025 15:54

Tgt Ion:	75	Resp:	4007
Ion	Ratio	Lower	Upper
75	100		
155	74.9	66.8	100.2
157	94.9	83.4	125.2





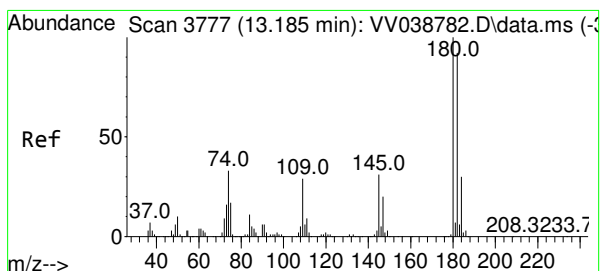
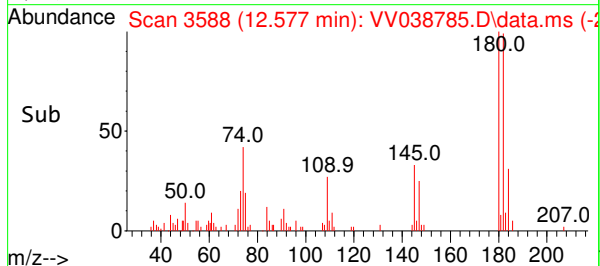
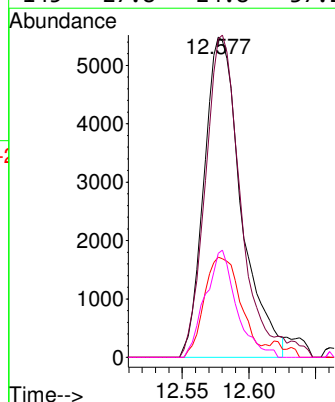
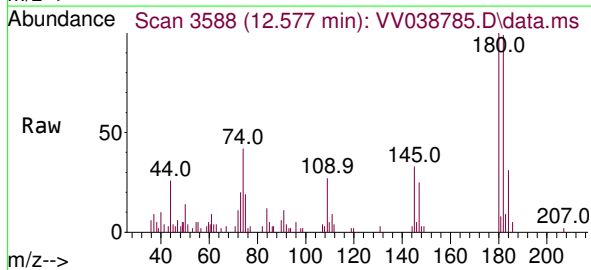
#69
1,3,5-Trichlorobenzene
Concen: 1.920 ug/L
RT: 12.577 min Scan# 3586
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId :
MDL-WATER-QT2-2025-04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	76.2	114.4
184	30.5	23.8	35.6
145	27.8	24.8	37.2

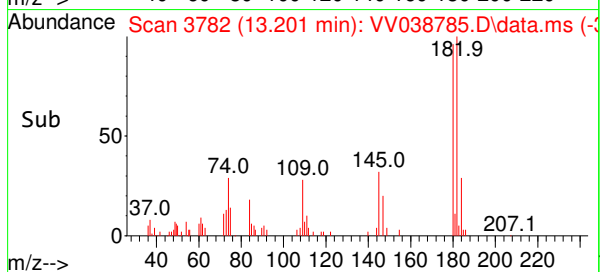
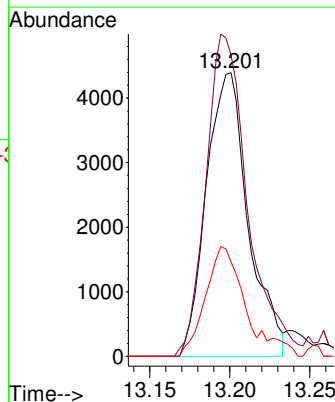
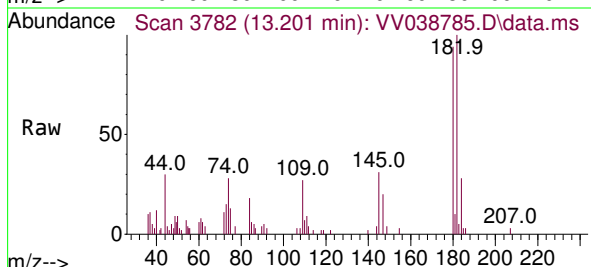
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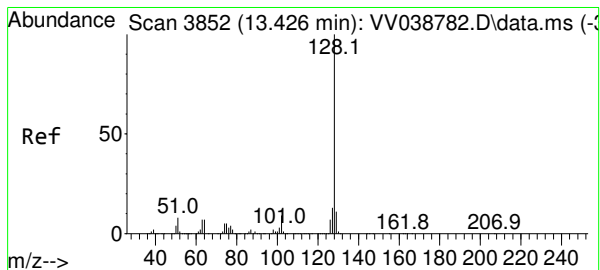
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#70
1,2,4-trichlorobenzene
Concen: 1.692 ug/L
RT: 13.201 min Scan# 3782
Delta R.T. 0.016 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	113.5	76.2	114.2
145	32.8	24.7	37.1





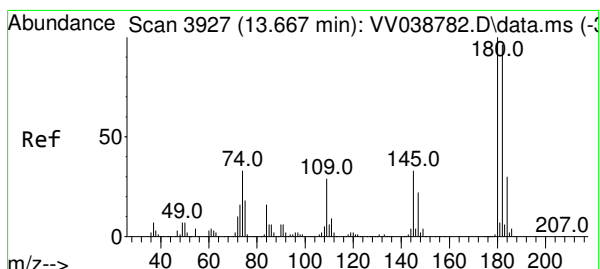
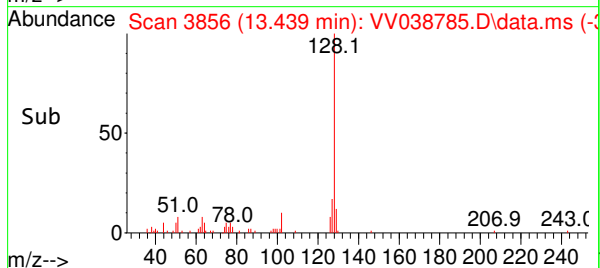
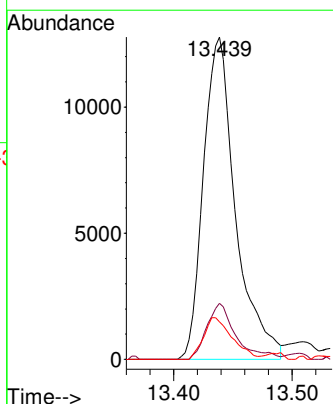
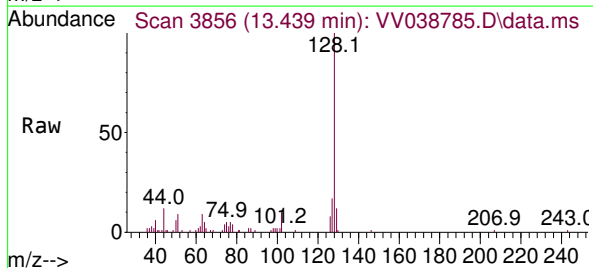
#71
Naphthalene
Concen: 1.435 ug/L
RT: 13.439 min Scan# 3856
Delta R.T. 0.013 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Instrument : MSVOA_V
ClientSampleId : VV038785.D
MDL-WATER-QT2-2025-04

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.2	10.1	15.1
129	11.6	8.6	12.8

Manual Integrations
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Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/16/2025



#72
1,2,3-Trichlorobenzene
Concen: 1.725 ug/L
RT: 13.673 min Scan# 3929
Delta R.T. 0.006 min
Lab File: VV038785.D
Acq: 11 Jun 2025 15:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.6	75.8	113.6
145	34.1	27.1	40.7

