

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111521\
 Data File : VN069489.D
 Acq On : 15 Nov 2021 13:37
 Operator : JC/MD
 Sample : M4068-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2021

Quant Time: Nov 16 02:35:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 16 02:35:15 2021
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/16/2021
 Supervised By :Mahesh Dadoda 11/18/2021

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

Internal Standards						
1) Pentafluorobenzene	8.086	168	1131377	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1910359	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	1662959	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	567304	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	939736	57.286	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 114.580%			
35) Dibromofluoromethane	8.024	113	629391	54.933	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 109.860%			
50) Toluene-d8	10.440	98	2450747	54.386	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 108.780%			
62) 4-Bromofluorobenzene	12.734	95	751906	45.421	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 90.840%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.306	50	4802	0.343	ug/l	99
16) Acetone	4.293	43	15732	1.777	ug/l #	83
20) Methylene Chloride	5.098	84	4677	0.373	ug/l #	83
23) Vinyl Acetate	6.439	43	21627	0.640	ug/l #	92
42) 1,2-Dichloroethane	8.528	62	5288	0.272	ug/l	93
58) 2-Chloroethyl Vinyl ether	10.041	63	3598	0.753	ug/l #	74
64) Tetrachloroethene	10.980	164	2099	0.209	ug/l #	85
68) m/p-Xylenes	11.953	106	6690	0.319	ug/l	95
74) N-amyl acetate	12.398	43	6091	0.318	ug/l #	84
75) 1,1,2,2-Tetrachloroethane	12.822	83	3886	0.255	ug/l #	93
77) Bromobenzene	12.857	156	2504	0.242	ug/l	69
78) n-propylbenzene	12.921	91	10860	0.214	ug/l	79
79) 2-Chlorotoluene	13.012	91	6784	0.216	ug/l	72
82) 4-Chlorotoluene	13.106	91	6905	0.230	ug/l	90
84) 1,2,4-Trimethylbenzene	13.372	105	7617	0.216	ug/l	97
87) 1,3-Dichlorobenzene	13.616	146	4888	0.273	ug/l	94
88) 1,4-Dichlorobenzene	13.691	146	6238m	0.355	ug/l	
89) n-Butylbenzene	13.946	91	7945	0.268	ug/l	92
91) 1,2-Dichlorobenzene	13.994	146	4872	0.286	ug/l	97
93) 1,2,4-Trichlorobenzene	15.265	180	3759	0.501	ug/l	97
95) Naphthalene	15.512	128	14672	0.729	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.708	180	3646	0.507	ug/l	92

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

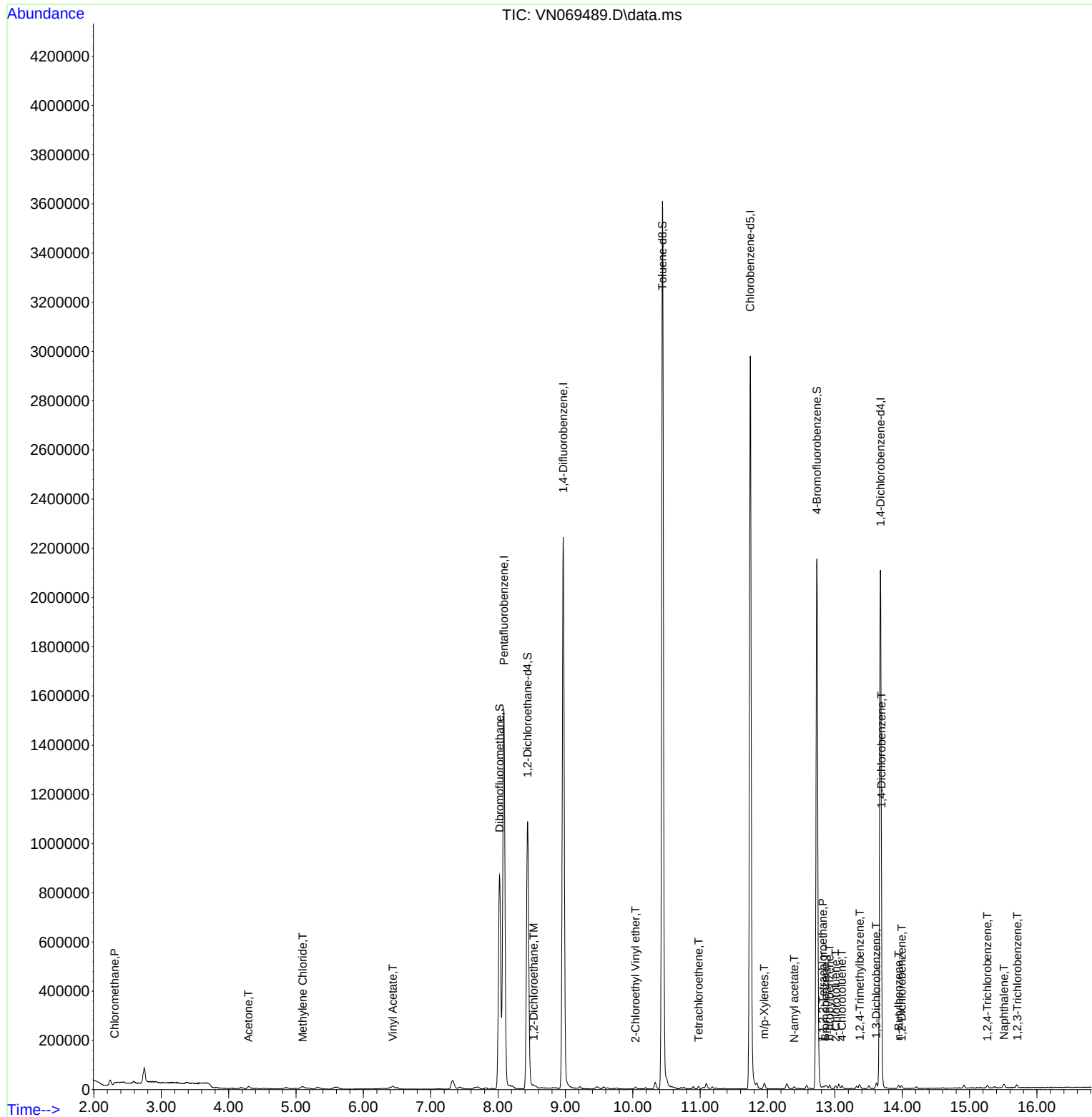
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111521\
Data File : VN069489.D
Acq On : 15 Nov 2021 13:37
Operator : JC/MD
Sample : M4068-07
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

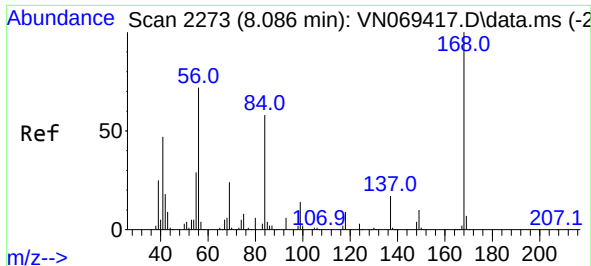
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021

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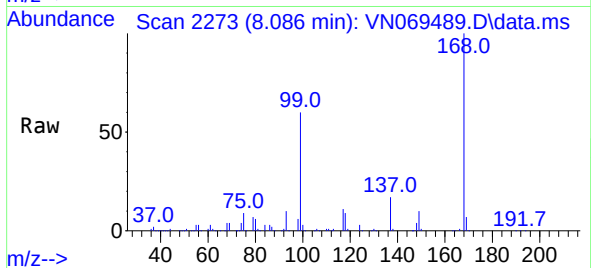
Quant Time: Nov 16 02:35:21 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 16 02:35:15 2021
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.000 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

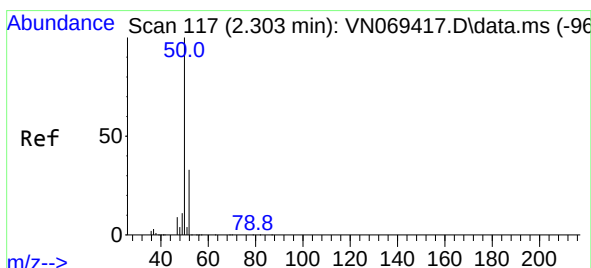
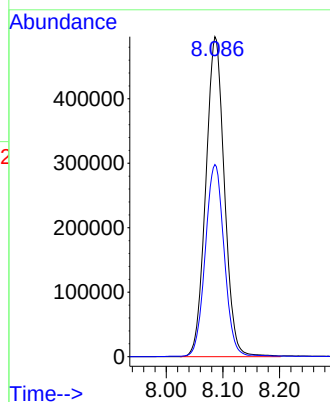
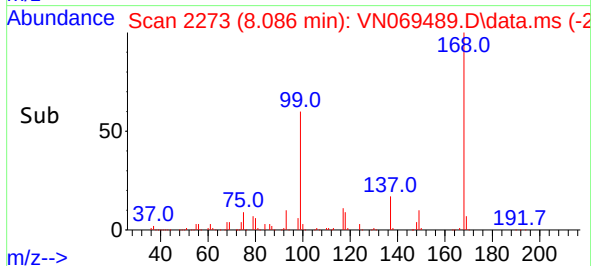
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021



Tgt Ion:168 Resp: 113137
Ion Ratio Lower Upper
168 100
99 59.9 41.3 61.9

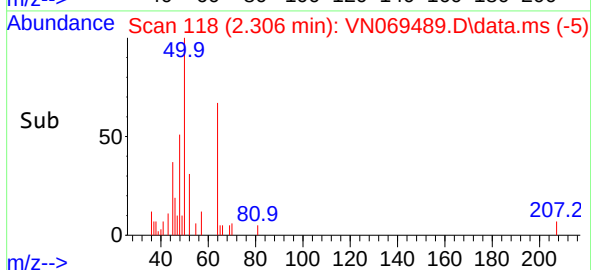
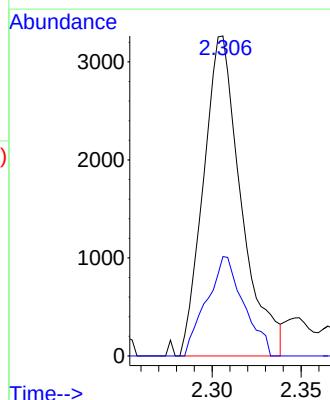
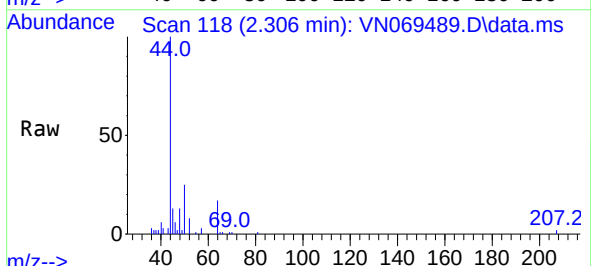
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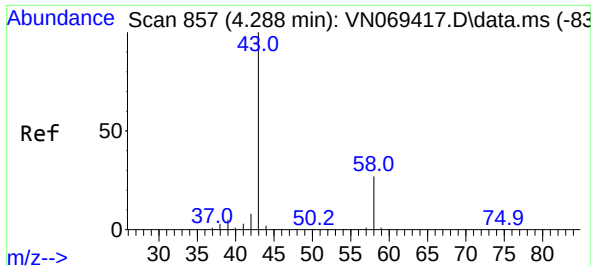
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021



#3
Chloromethane
Concen: 0.343 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

Tgt Ion: 50 Resp: 4802
Ion Ratio Lower Upper
50 100
52 31.1 25.4 38.0





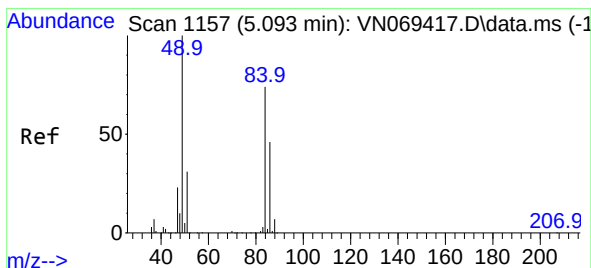
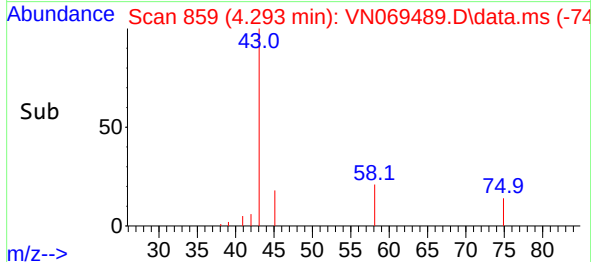
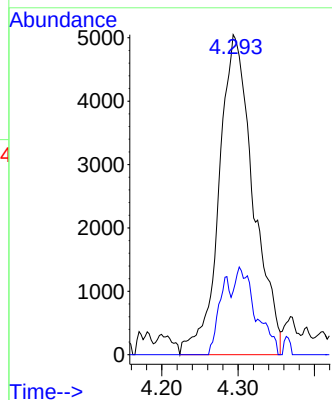
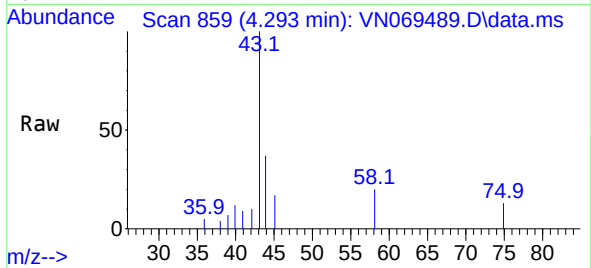
#16
Acetone
Concen: 1.777 ug/l
RT: 4.293 min Scan# 859
Delta R.T. 0.005 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

Instrument : MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021

Tgt Ion: 43 Resp: 1573
Ion Ratio Lower Upper
43 100
58 19.8 23.1 34.7

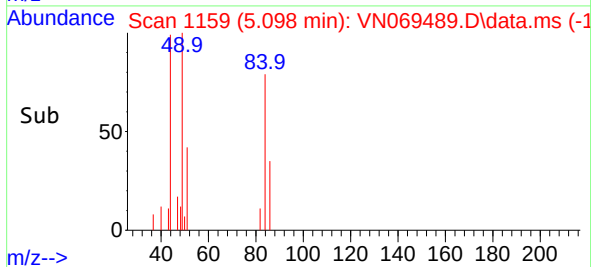
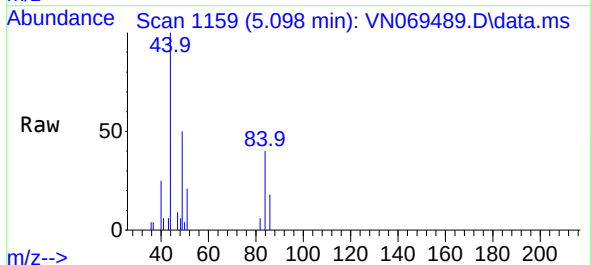
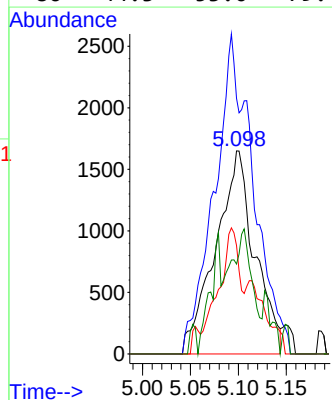
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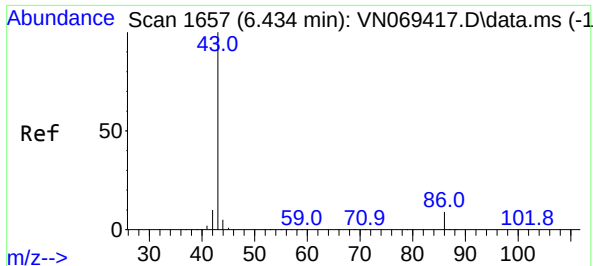
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021



#20
Methylene Chloride
Concen: 0.373 ug/l
RT: 5.098 min Scan# 1159
Delta R.T. 0.005 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

Tgt Ion: 84 Resp: 4677
Ion Ratio Lower Upper
84 100
49 125.9 93.5 140.3
51 53.4 29.4 44.2#
86 44.3 53.0 79.4#





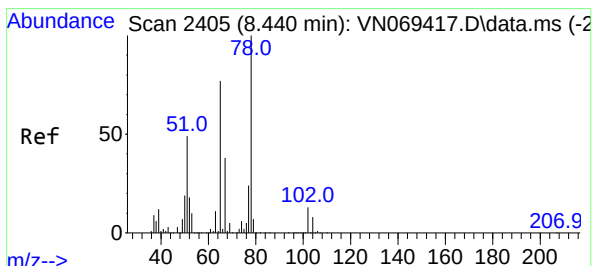
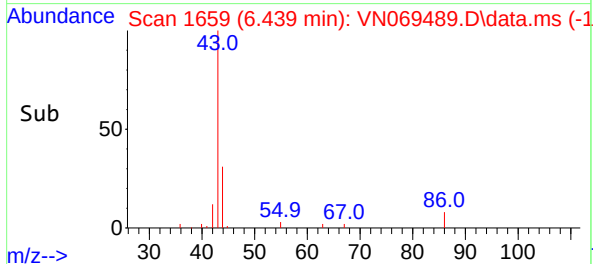
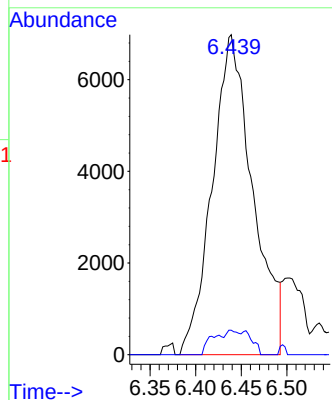
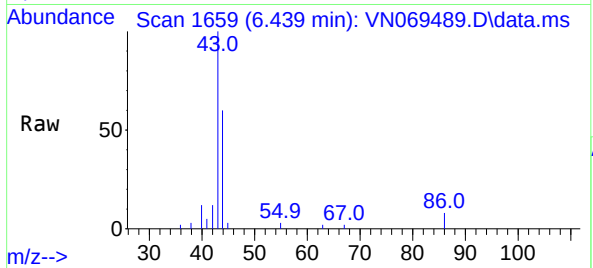
#23
 Vinyl Acetate
 Concen: 0.640 ug/l
 RT: 6.439 min Scan# 1
 Delta R.T. 0.005 min
 Lab File: VN069489.D
 Acq: 15 Nov 2021 13:37

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2021

Tgt Ion: 43 Resp: 2162
 Ion Ratio Lower Upper
 43 100
 86 7.6 8.5 12.7

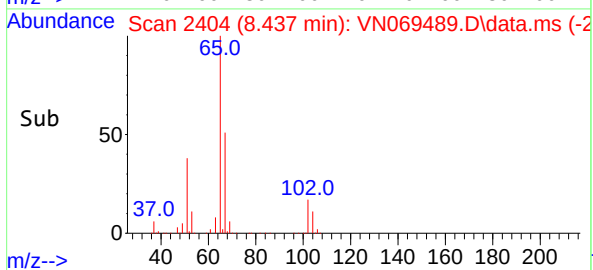
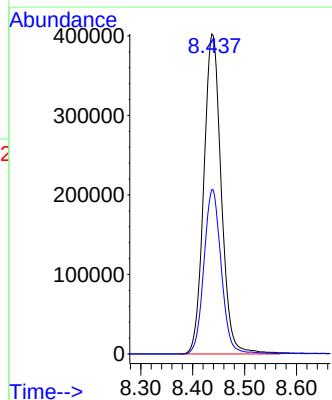
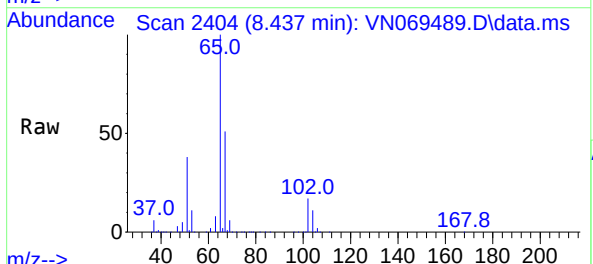
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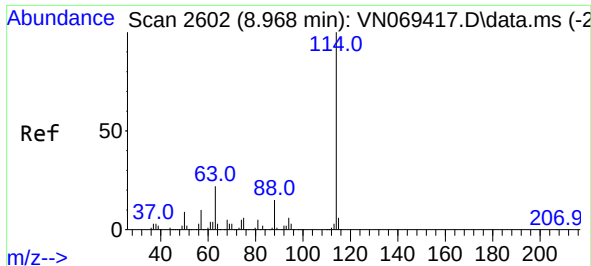
Reviewed By :John Carlone 11/16/2021
 Supervised By :Mahesh Dadoda 11/18/2021



#33
 1,2-Dichloroethane-d4
 Concen: 57.286 ug/l
 RT: 8.437 min Scan# 2404
 Delta R.T. -0.003 min
 Lab File: VN069489.D
 Acq: 15 Nov 2021 13:37

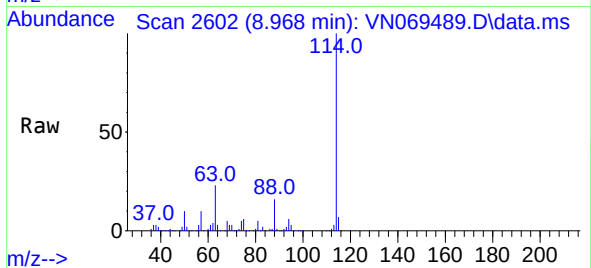
Tgt Ion: 65 Resp: 939736
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 103.0





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2100
Delta R.T. 0.000 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

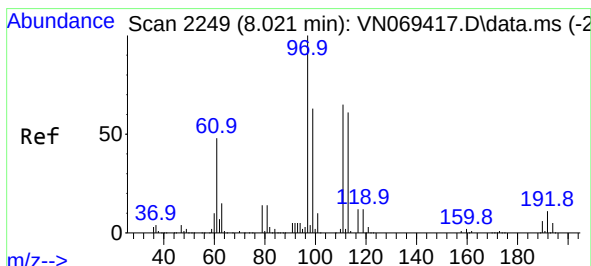
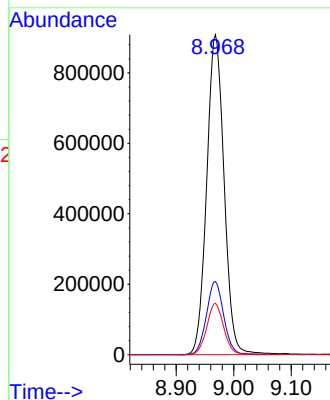
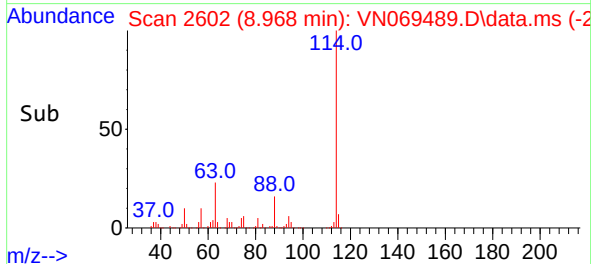
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021



Tgt Ion:114 Resp: 1910359
Ion Ratio Lower Upper
114 100
63 22.8 0.0 37.8
88 16.0 0.0 27.4

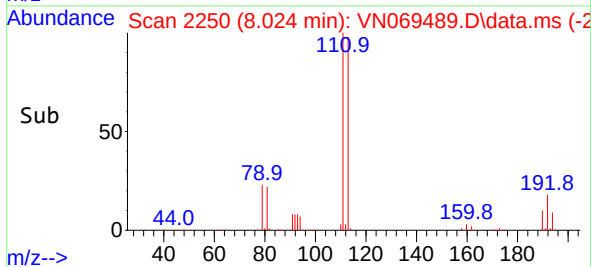
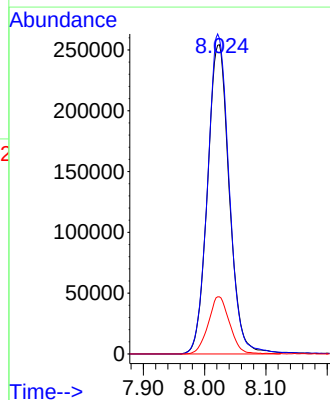
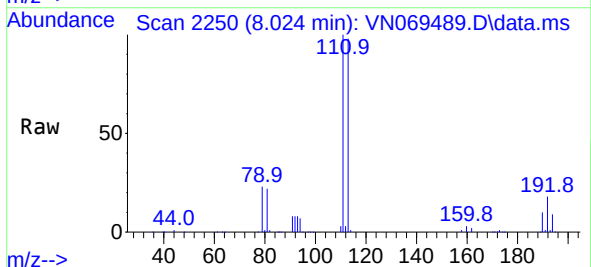
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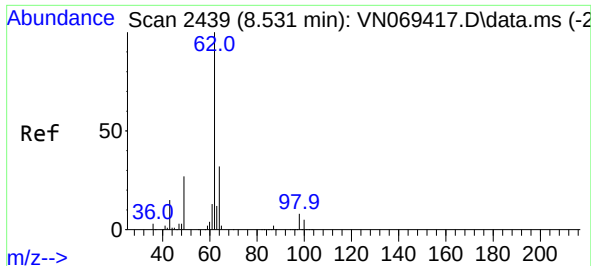
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021



#35
Dibromofluoromethane
Concen: 54.933 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

Tgt Ion:113 Resp: 629391
Ion Ratio Lower Upper
113 100
111 102.2 82.2 123.2
192 18.1 16.9 25.3





#42

1,2-Dichloroethane

Concen: 0.272 ug/l

RT: 8.528 min Scan# 2439

Delta R.T. -0.003 min

Lab File: VN069489.D

Acq: 15 Nov 2021 13:37

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2021

Tgt Ion: 62 Resp: 528

Ion Ratio Lower Upper

62 100

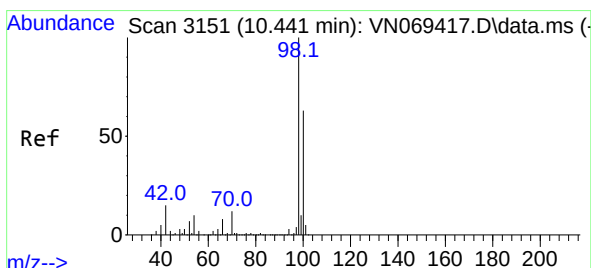
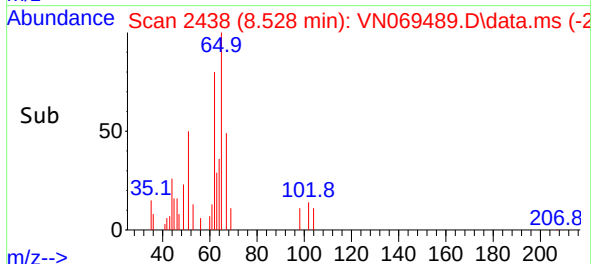
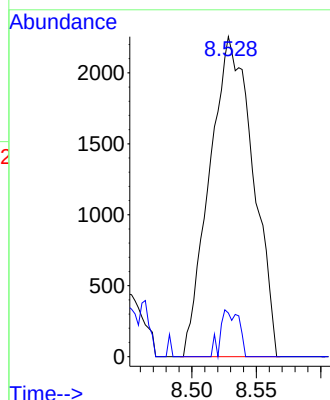
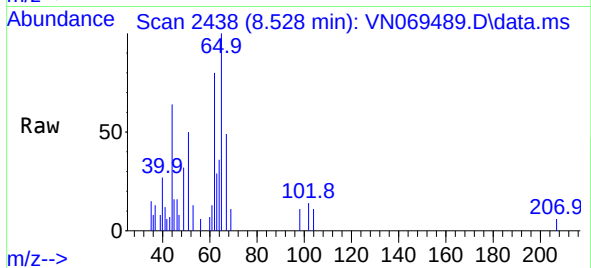
98 6.2 0.0 17.6

Manual Integrations

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#50

Toluene-d8

Concen: 54.386 ug/l

RT: 10.440 min Scan# 3151

Delta R.T. -0.001 min

Lab File: VN069489.D

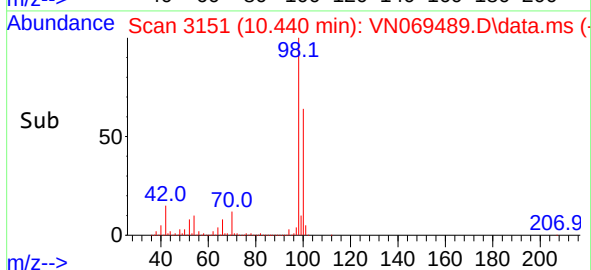
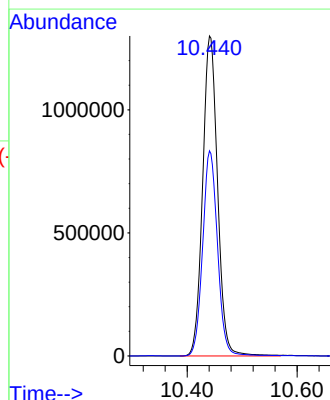
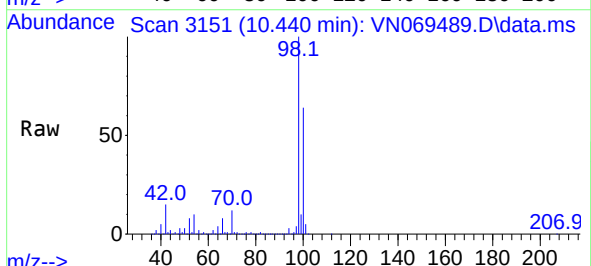
Acq: 15 Nov 2021 13:37

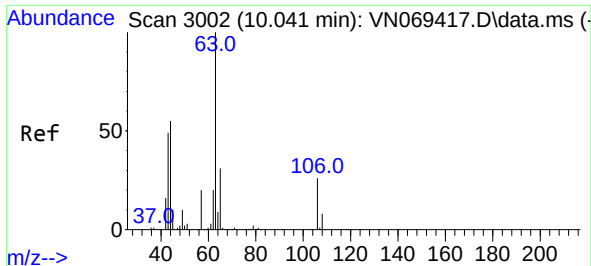
Tgt Ion: 98 Resp: 2450747

Ion Ratio Lower Upper

98 100

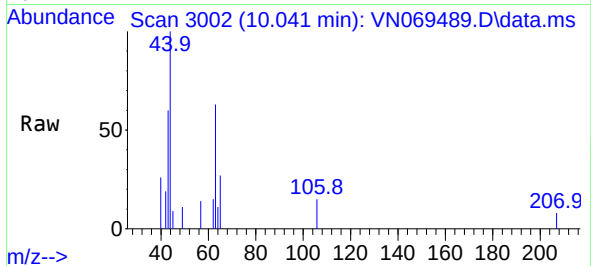
100 63.6 50.4 75.6





#58
2-Chloroethyl Vinyl ether
Concen: 0.753 ug/l
RT: 10.041 min Scan# 3002
Delta R.T. -0.000 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

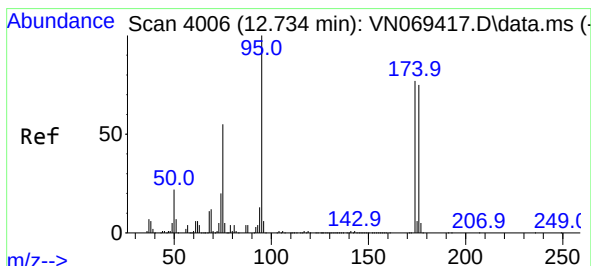
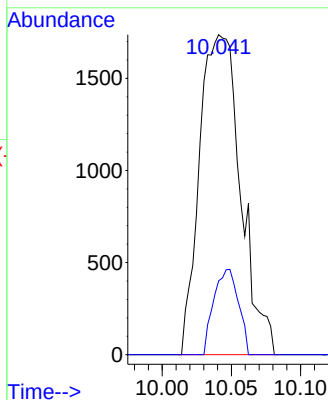
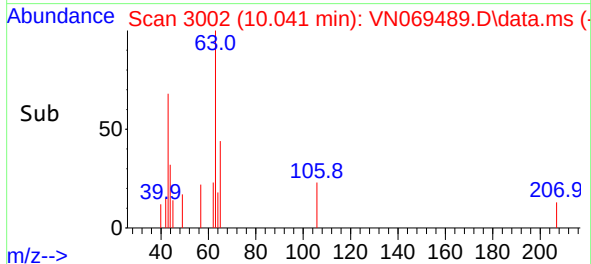
Instrument : MSVOA_N
ClientSampleId : LOD-MDL-WATER-01-QT4-2021



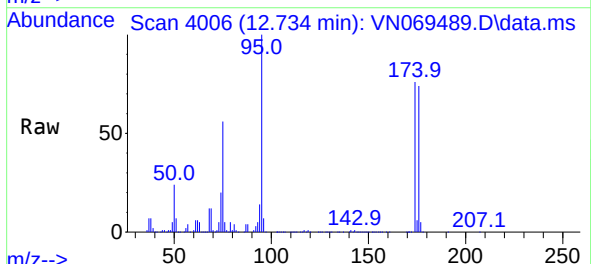
Tgt Ion: 63 Resp: 3598
Ion Ratio Lower Upper
63 100
106 15.9 23.9 35.9

Manual Integrations
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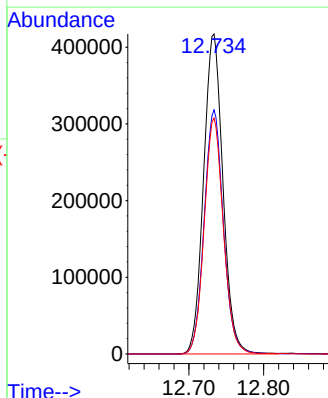
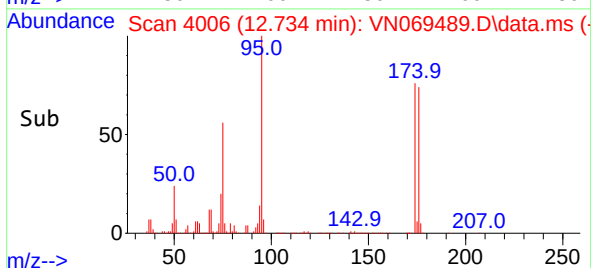
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021

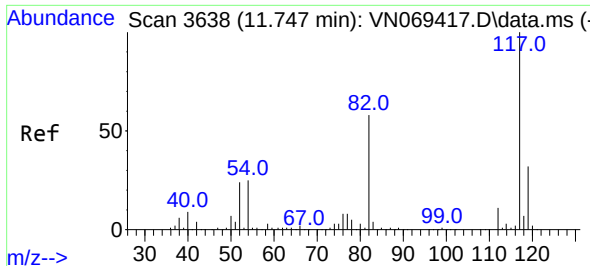


#62
4-Bromofluorobenzene
Concen: 45.421 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37



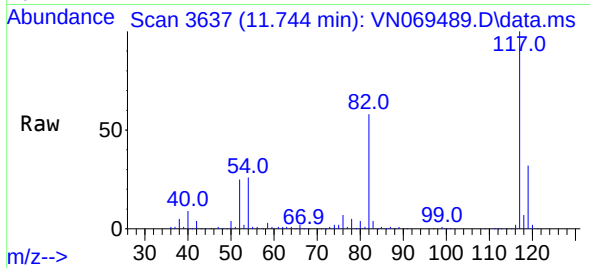
Tgt Ion: 95 Resp: 751906
Ion Ratio Lower Upper
95 100
174 75.6 0.0 187.2
176 73.2 0.0 181.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3638
Delta R.T. -0.003 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

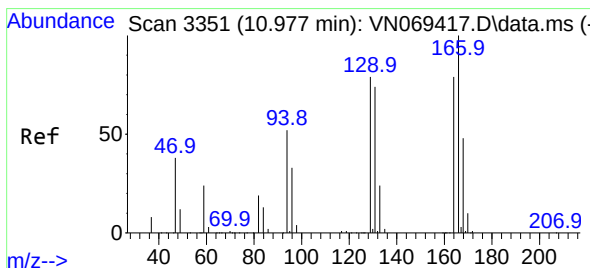
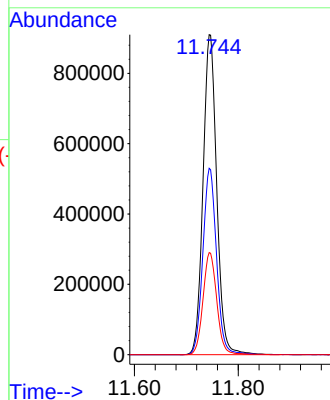
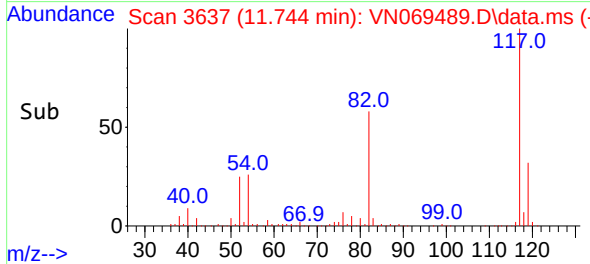
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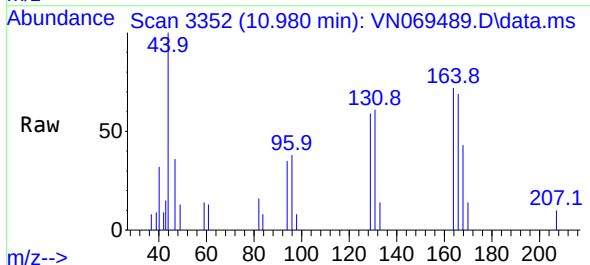
Tgt Ion:117 Resp: 166295
Ion Ratio Lower Upper
117 100
82 58.2 42.4 63.6
119 31.9 25.4 38.2

Manual Integrations
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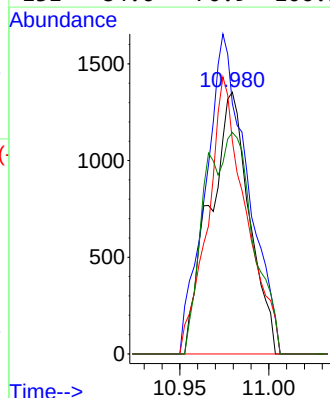
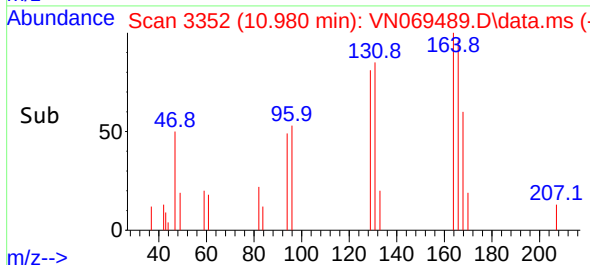
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021

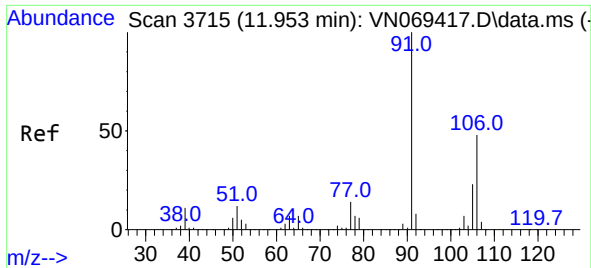


#64
Tetrachloroethene
Concen: 0.209 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. 0.003 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37



Tgt Ion:164 Resp: 2099
Ion Ratio Lower Upper
164 100
166 95.6 101.9 152.9#
129 81.3 72.0 108.0
131 84.6 70.9 106.3





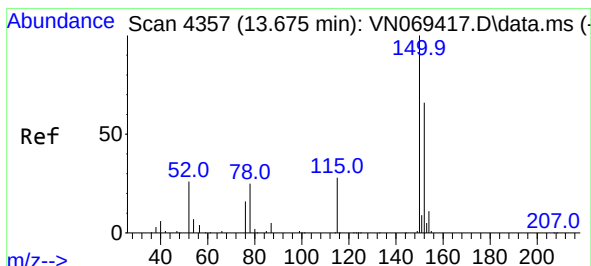
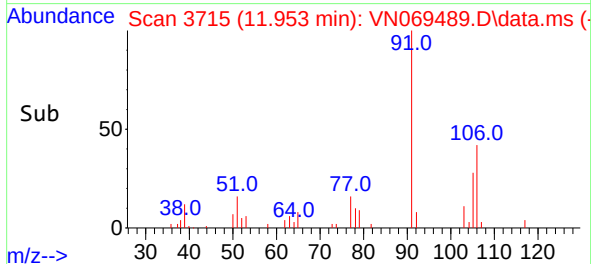
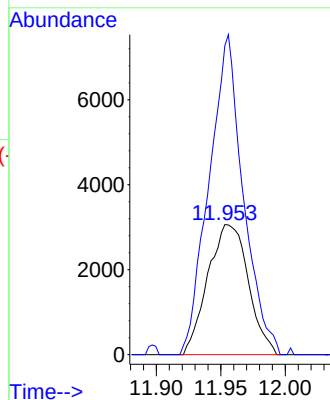
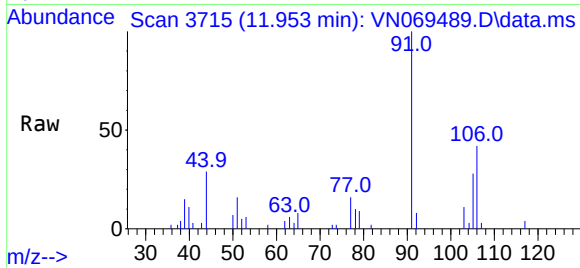
#68
m/p-Xylenes
Concen: 0.319 ug/l
RT: 11.953 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021

Tgt Ion:106 Resp: 6690
Ion Ratio Lower Upper
106 100
91 207.7 160.6 240.8

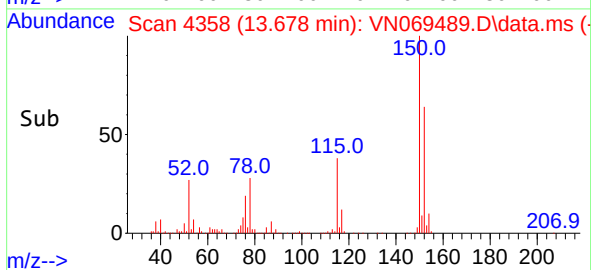
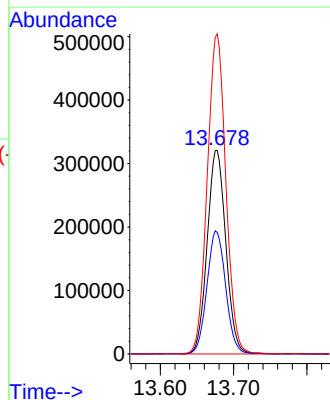
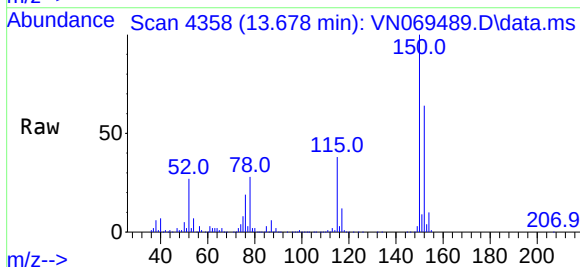
Manual Integrations
APPROVED

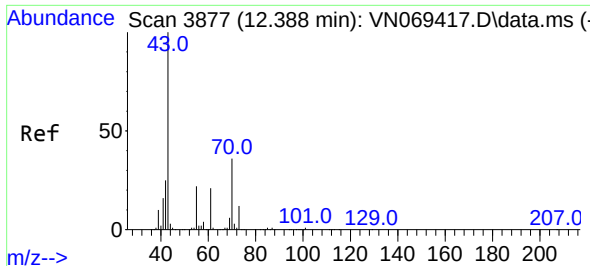
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

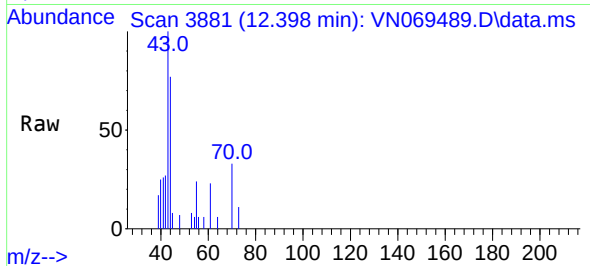
Tgt Ion:152 Resp: 567304
Ion Ratio Lower Upper
152 100
115 60.7 27.5 82.5
150 156.3 0.0 344.4





#74
N-amy1 acetate
Concen: 0.318 ug/l
RT: 12.398 min Scan# 3877
Delta R.T. 0.010 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

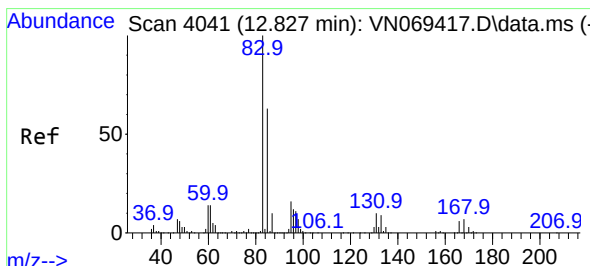
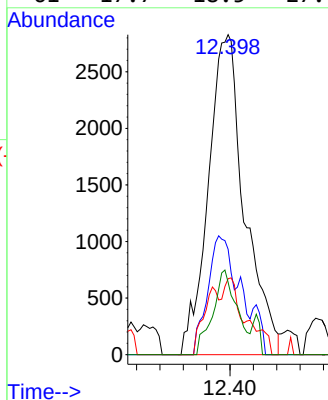
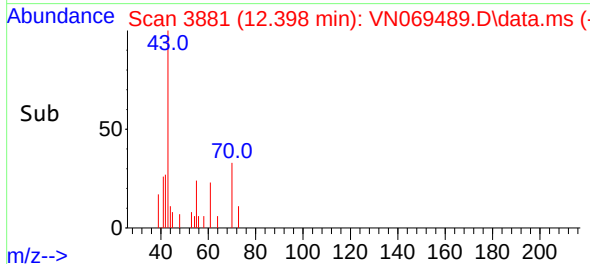
Instrument : MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021



Tgt Ion: 43	Resp: 609
Ion Ratio	Lower Upper
43 100	
70 30.7	33.4 50.0
55 14.4	19.3 28.9
61 17.7	18.5 27.7

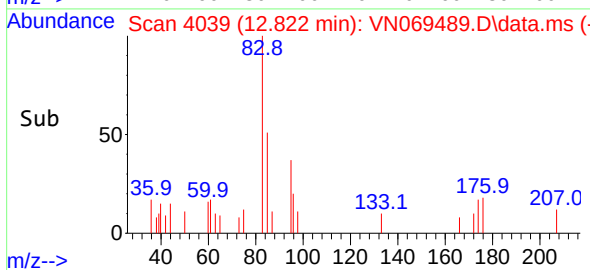
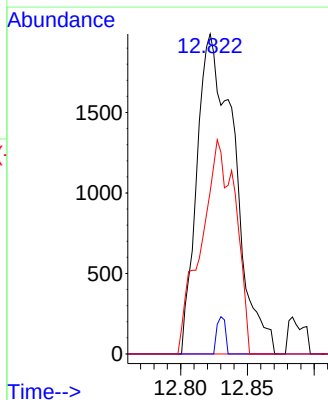
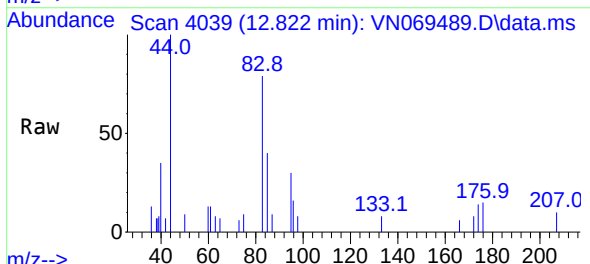
Manual Integrations
APPROVED

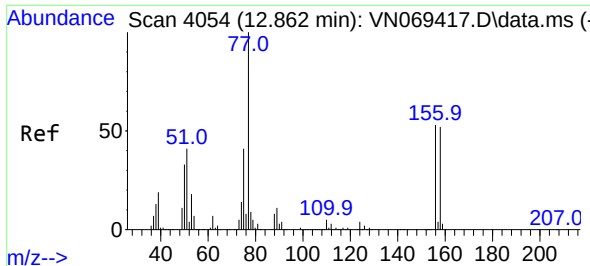
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021



#75
1,1,2,2-Tetrachloroethane
Concen: 0.255 ug/l
RT: 12.822 min Scan# 4039
Delta R.T. -0.005 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

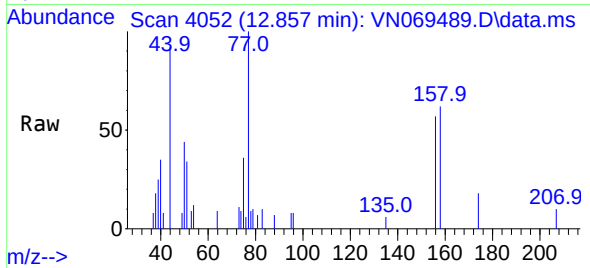
Tgt Ion: 83	Resp: 3886
Ion Ratio	Lower Upper
83 100	
131 2.6	5.5 16.5
85 61.4	32.4 97.2





#77
Bromobenzene
Concen: 0.242 ug/l
RT: 12.857 min Scan# 4052
Delta R.T. -0.005 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

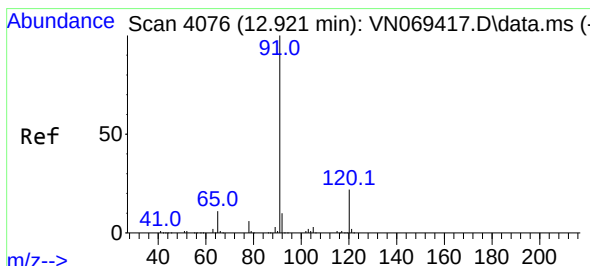
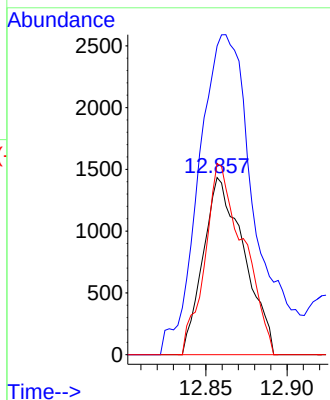
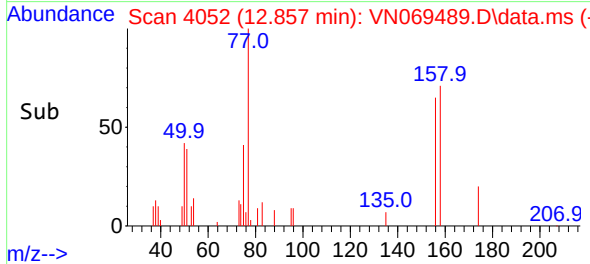
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021



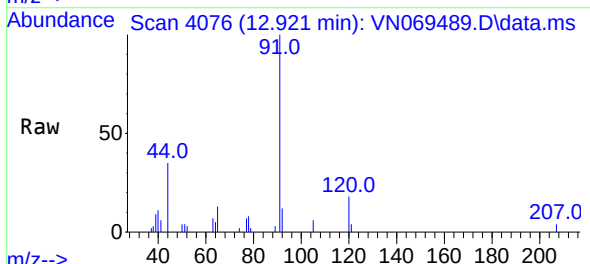
Tgt Ion:156 Resp: 2504
Ion Ratio Lower Upper
156 100
77 246.8 90.6 271.8
158 101.9 48.9 146.7

Manual Integrations
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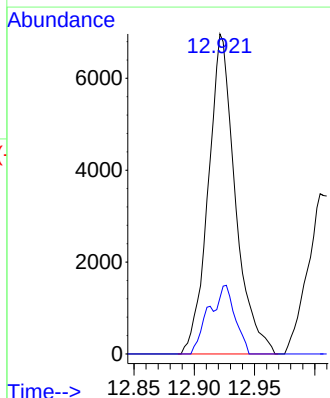
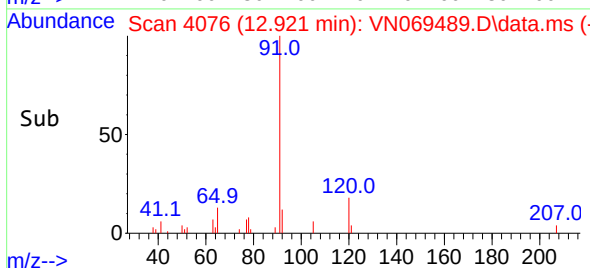
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021

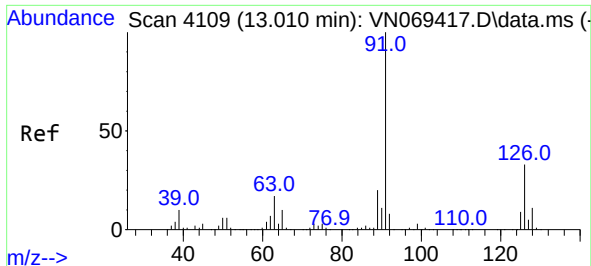


#78
n-propylbenzene
Concen: 0.214 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. 0.000 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37



Tgt Ion: 91 Resp: 10860
Ion Ratio Lower Upper
91 100
120 13.7 11.9 35.9





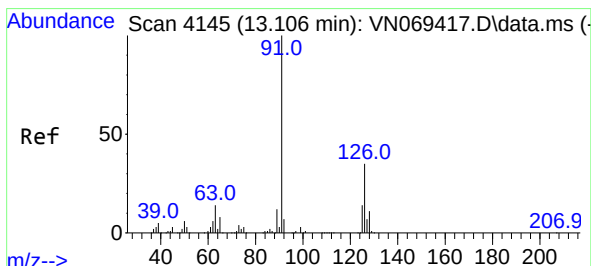
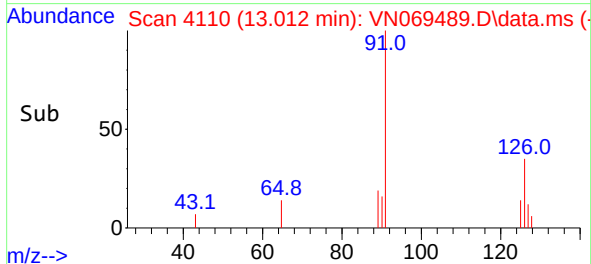
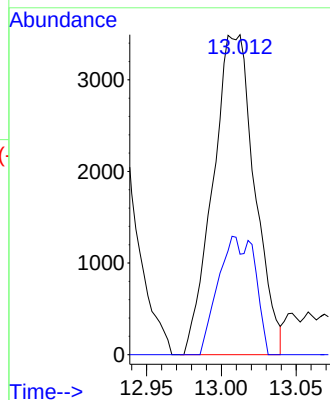
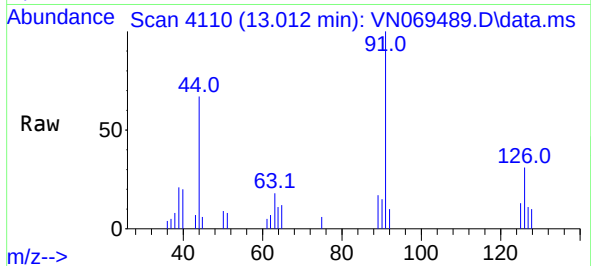
#79
2-Chlorotoluene
Concen: 0.216 ug/l
RT: 13.012 min Scan# 4110
Delta R.T. 0.002 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021

Tgt Ion: 91 Resp: 6784
Ion Ratio Lower Upper
91 100
126 20.1 18.3 54.8

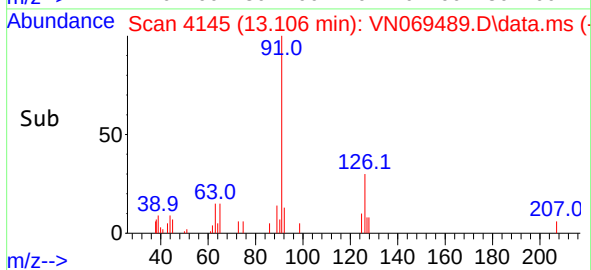
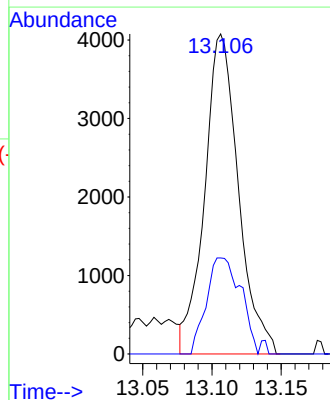
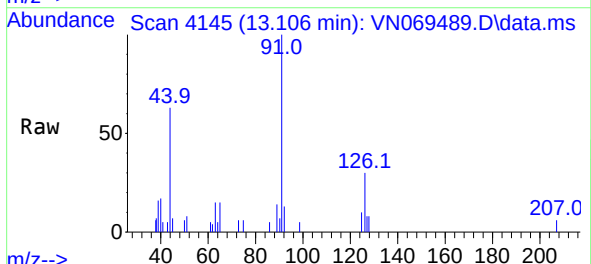
Manual Integrations
APPROVED

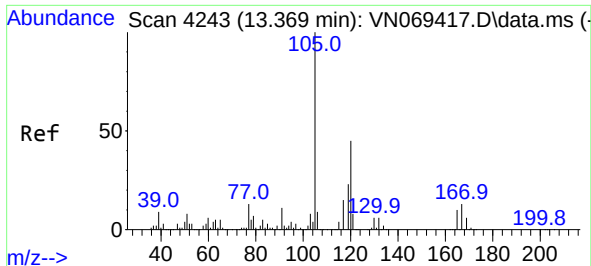
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021



#82
4-Chlorotoluene
Concen: 0.230 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.000 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

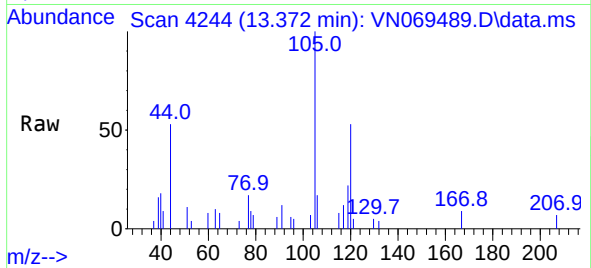
Tgt Ion: 91 Resp: 6905
Ion Ratio Lower Upper
91 100
126 30.5 18.2 54.6





#84
1,2,4-Trimethylbenzene
Concen: 0.216 ug/l
RT: 13.372 min Scan# 4244
Delta R.T. 0.003 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

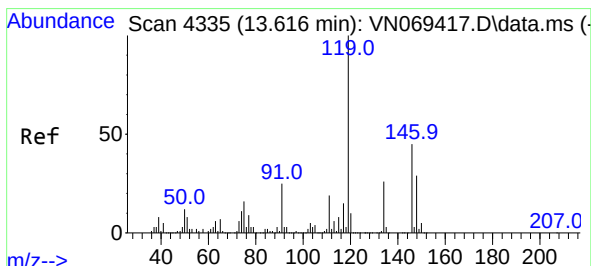
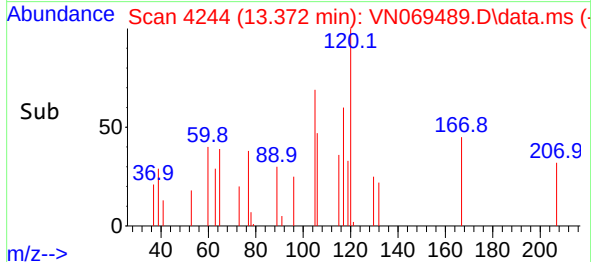
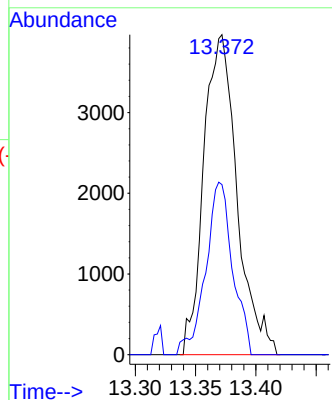
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021



Tgt Ion:105 Resp: 761
Ion Ratio Lower Upper
105 100
120 43.6 22.8 68.4

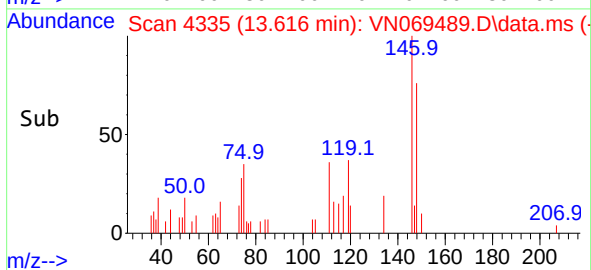
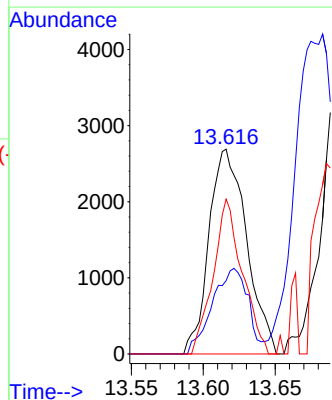
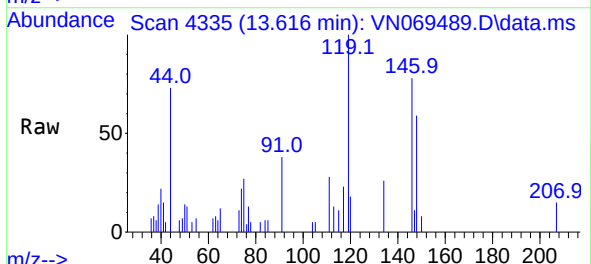
Manual Integrations
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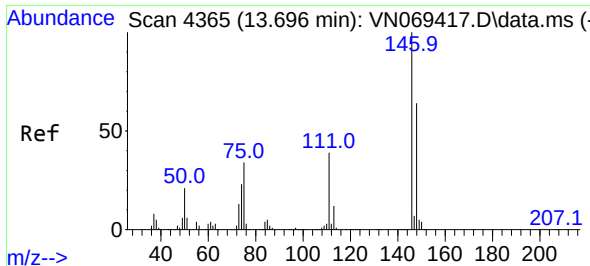
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021



#87
1,3-Dichlorobenzene
Concen: 0.273 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. -0.000 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

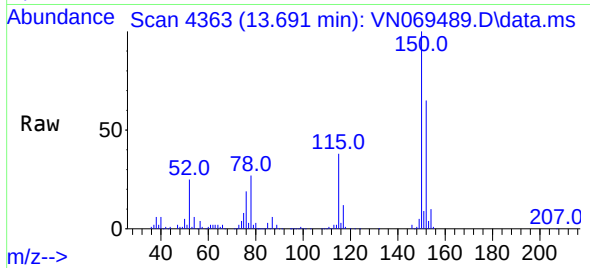
Tgt Ion:146 Resp: 4888
Ion Ratio Lower Upper
146 100
111 40.2 18.6 55.6
148 58.6 31.6 95.0





#88
1,4-Dichlorobenzene
Concen: 0.355 ug/l m
RT: 13.691 min Scan# 41
Delta R.T. -0.005 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

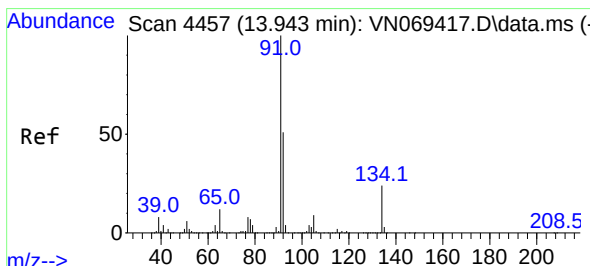
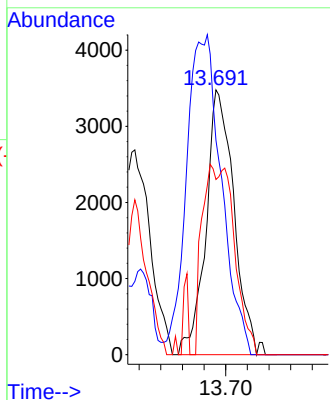
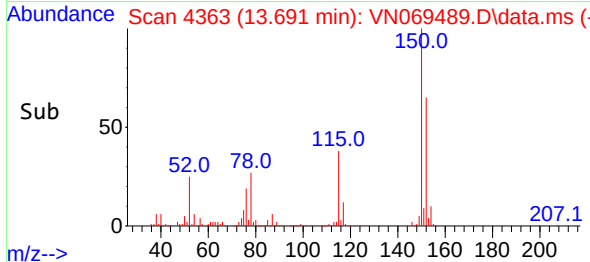
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021



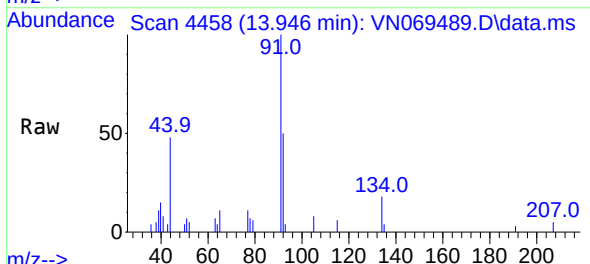
Tgt Ion:146 Resp: 6238
Ion Ratio Lower Upper
146 100
111 31.5 18.3 54.8
148 45.9 31.8 95.4

Manual Integrations
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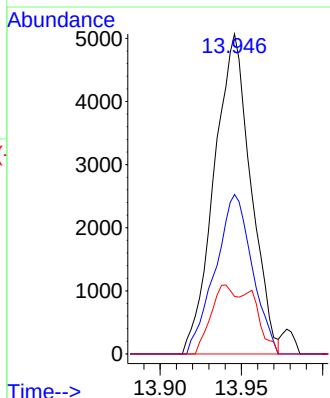
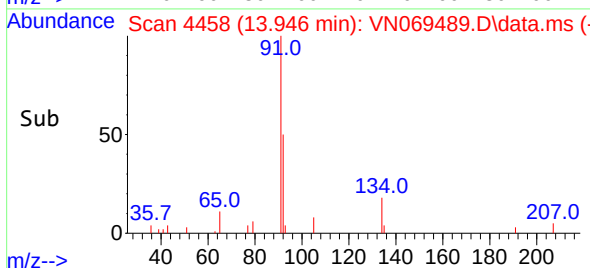
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021

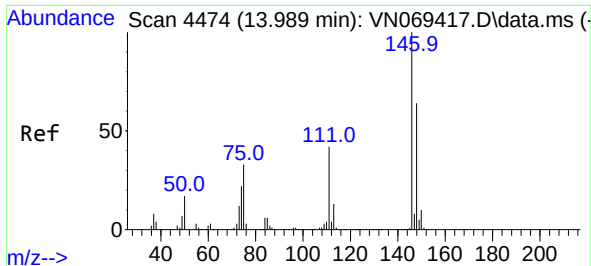


#89
n-Butylbenzene
Concen: 0.268 ug/l
RT: 13.946 min Scan# 4458
Delta R.T. 0.003 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37



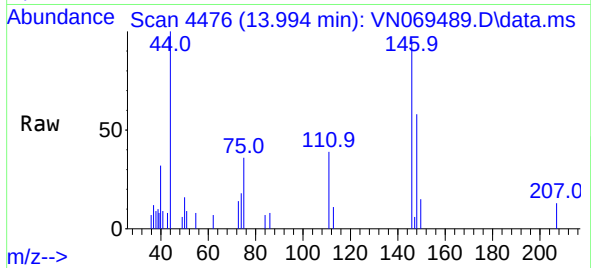
Tgt Ion: 91 Resp: 7945
Ion Ratio Lower Upper
91 100
92 50.3 25.4 76.0
134 15.5 13.6 40.8





#91
1,2-Dichlorobenzene
Concen: 0.286 ug/l
RT: 13.994 min Scan# 4476
Delta R.T. 0.005 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

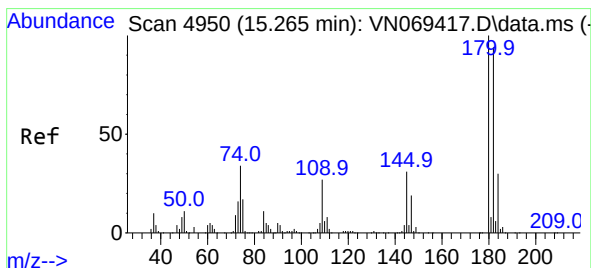
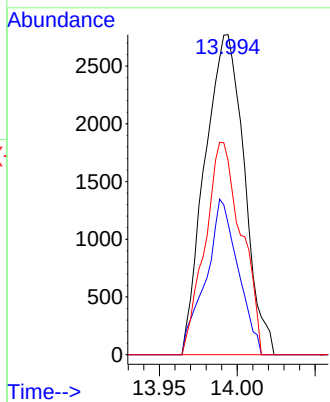
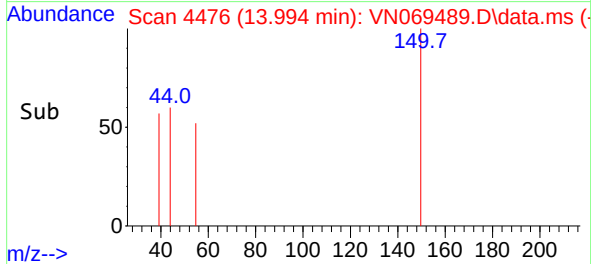
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2021



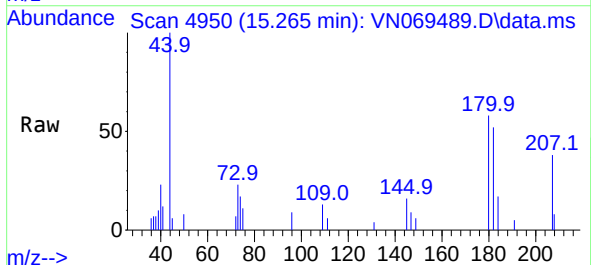
Tgt Ion:146 Resp: 4872
Ion Ratio Lower Upper
146 100
111 39.8 19.1 57.3
148 61.3 32.1 96.3

Manual Integrations
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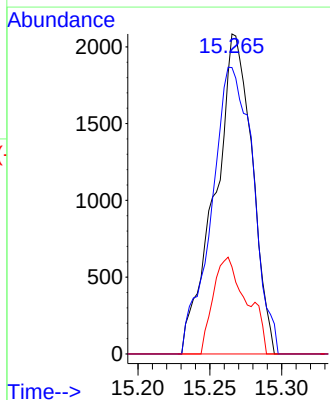
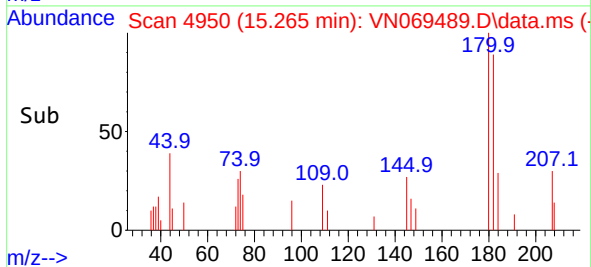
Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021

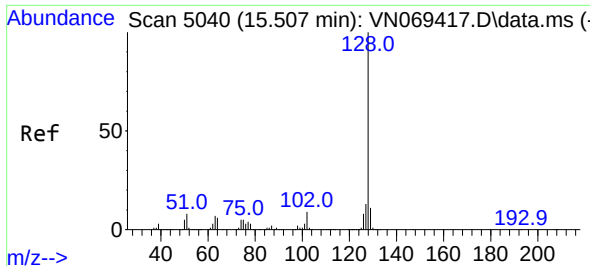


#93
1,2,4-Trichlorobenzene
Concen: 0.501 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37



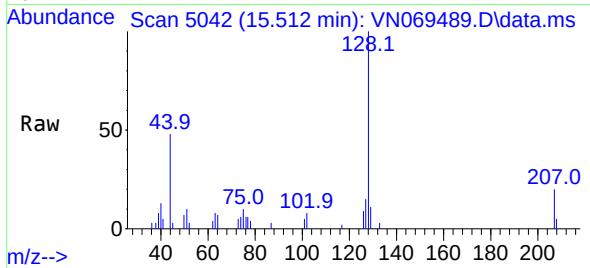
Tgt Ion:180 Resp: 3759
Ion Ratio Lower Upper
180 100
182 99.5 48.3 144.9
145 27.1 14.5 43.5





#95
Naphthalene
Concen: 0.729 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37

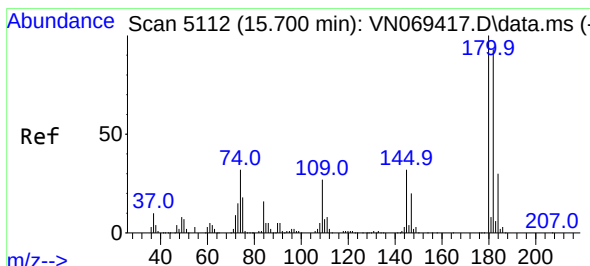
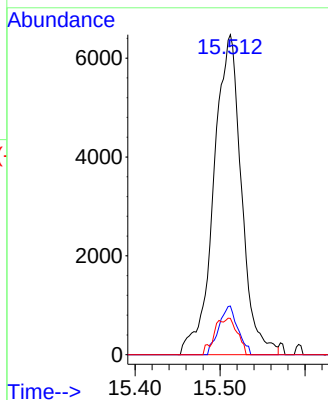
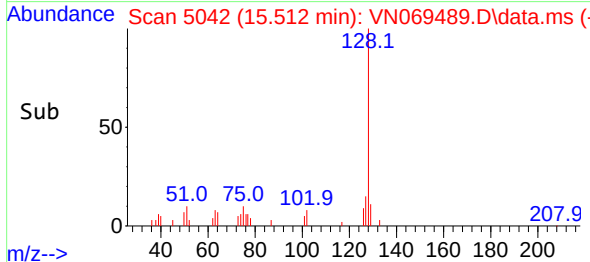
Instrument : MSVOA_N
ClientSampleId : LOD-MDL-WATER-01-QT4-2021



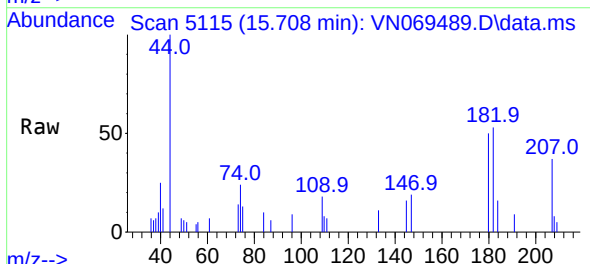
Tgt Ion:128 Resp: 14672
Ion Ratio Lower Upper
128 100
127 10.4 10.5 15.7
129 9.3 8.7 13.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/16/2021
Supervised By :Mahesh Dadoda 11/18/2021



#96
1,2,3-Trichlorobenzene
Concen: 0.507 ug/l
RT: 15.708 min Scan# 5115
Delta R.T. 0.008 min
Lab File: VN069489.D
Acq: 15 Nov 2021 13:37



Tgt Ion:180 Resp: 3646
Ion Ratio Lower Upper
180 100
182 103.4 47.4 142.2
145 33.2 15.0 45.1

