

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092223\
 Data File : VN079332.D
 Acq On : 22 Sep 2023 11:48
 Operator : JC\MD
 Sample : 04554-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 230920054-02-VOA

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/25/2023
 Supervised By : Mahesh Dadoda 09/25/2023

Quant Time: Sep 23 00:41:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	38093	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	176837	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	158381	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	85071	29.725	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.067%		
60) 4-Bromofluorobenzene	12.853	95	59995	25.709	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	85.700%		
63) Toluene-d8	10.570	98	214954	29.041	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.800%		
Target Compounds						Qvalue
4) Vinyl Chloride	2.518	62	1388	0.659	ug/l	99
8) Diethyl Ether	3.959	74	3748m	4.074	ug/l	
15) Acetone	4.436	58	7578	31.711	ug/l	87
23) tert-Butyl Alcohol	5.524	59	1564504	4439.526	ug/l #	100
34) Benzene	8.612	78	36263	4.026	ug/l #	86
58) 4-Methyl-2-Pentanone	10.453	43	11513	3.961	ug/l #	68
62) Toluene	10.635	91	29265	3.173	ug/l	97
64) Chlorobenzene	11.900	112	4965	0.923	ug/l	96
66) Ethyl Benzene	11.970	91	9770	1.052	ug/l #	85
67) m/p-Xylenes	12.076	106	28631	8.195	ug/l	100
68) o-Xylene	12.400	106	21030	6.242	ug/l	93
70) Isopropylbenzene	12.700	105	3755	0.438	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	5224	0.738	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	19395	2.868	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	8682	2.725	ug/l	95
91) Naphthalene	15.641	128	12615	3.365	ug/l #	86

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

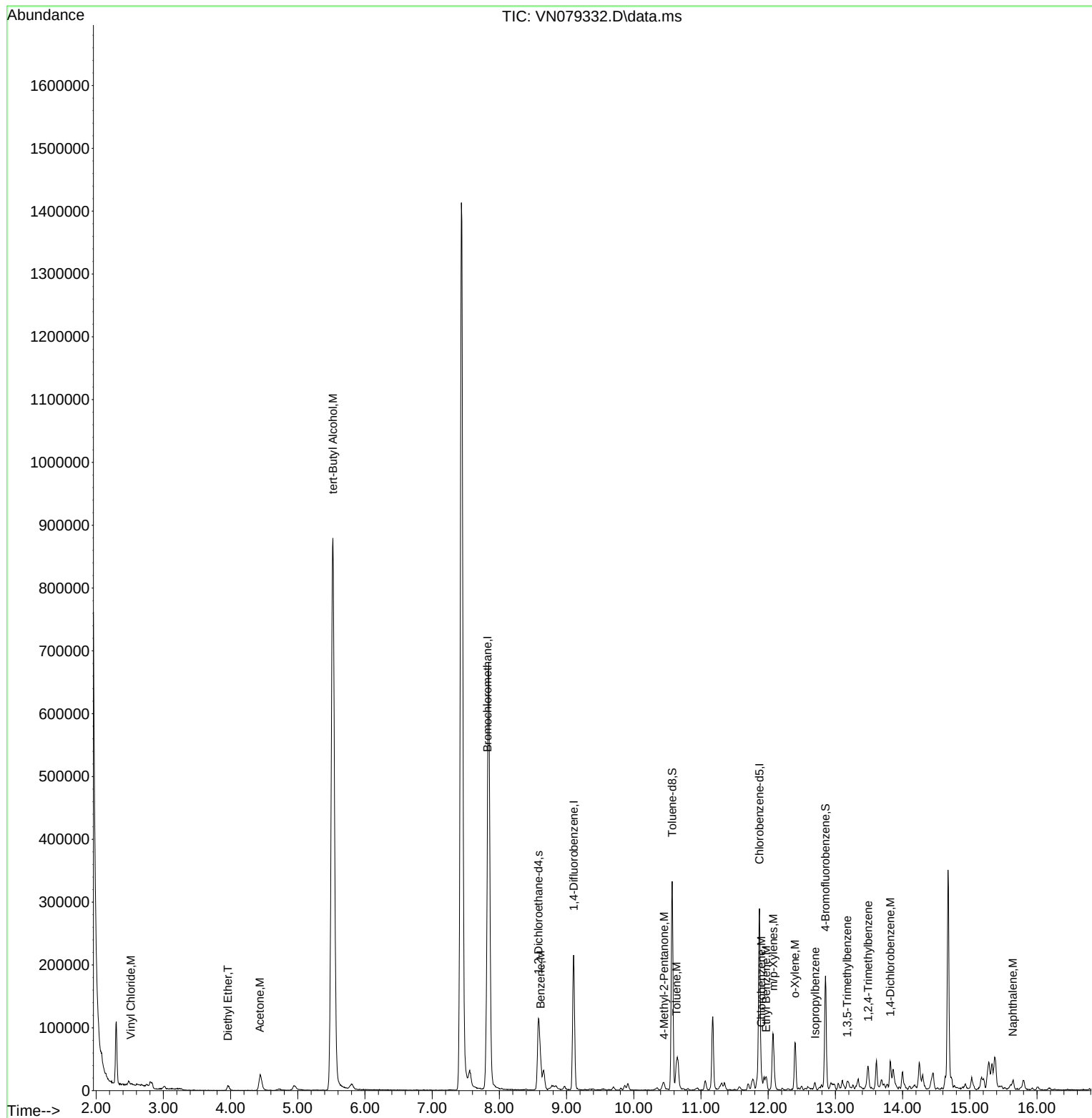
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092223\
Data File : VN079332.D
Acq On : 22 Sep 2023 11:48
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ALS Vial : 7 Sample Multiplier: 1

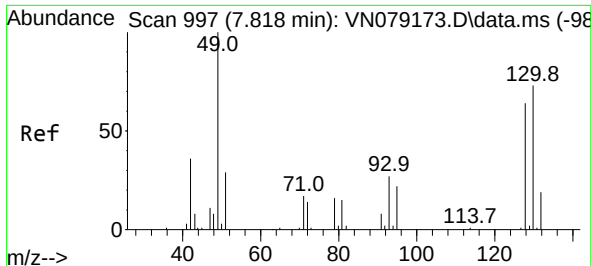
Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 08 05:09:17 2023
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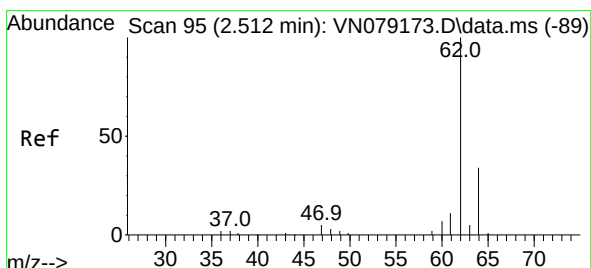
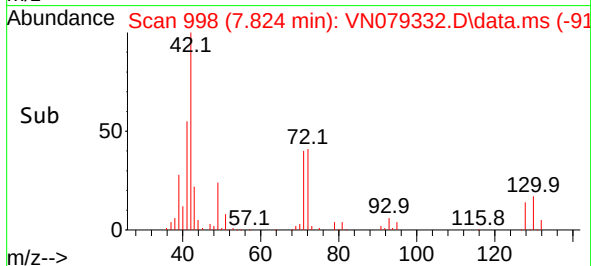
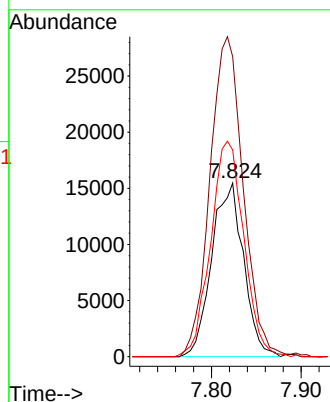
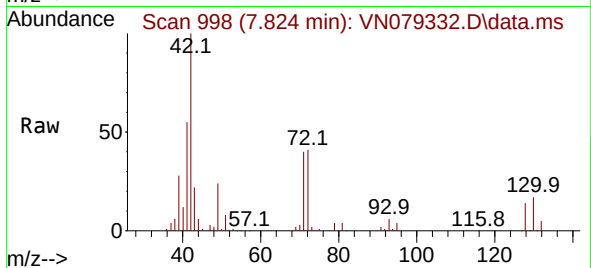
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 99
Delta R.T. 0.006 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA

Tgt Ion:128 Resp: 3809
Ion Ratio Lower Upper
128 100
49 192.6 0.0 414.3
130 129.4 0.0 311.0

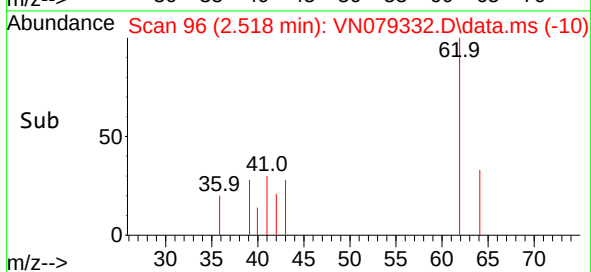
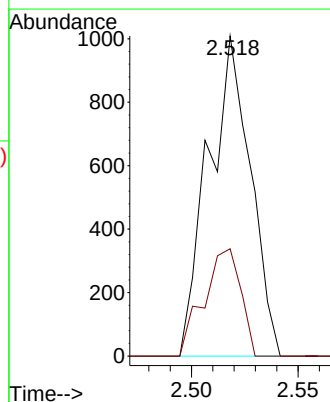
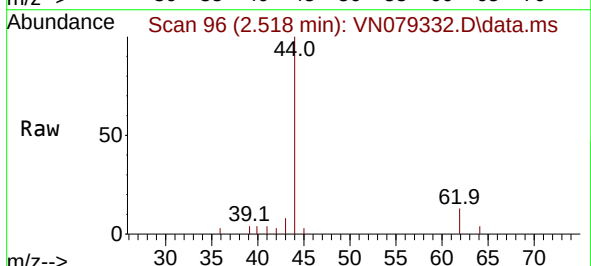
Manual Integrations
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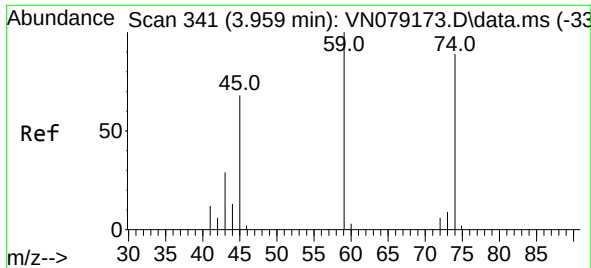
Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023



#4
Vinyl Chloride
Concen: 0.659 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

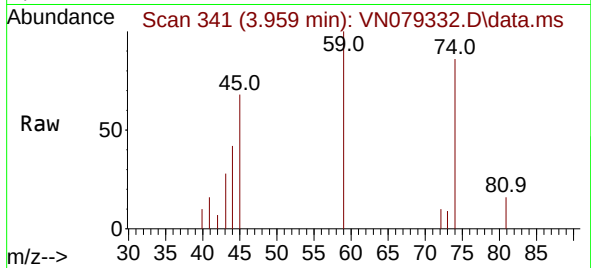
Tgt Ion: 62 Resp: 1388
Ion Ratio Lower Upper
62 100
64 33.5 27.1 40.7





#8
Diethyl Ether
Concen: 4.074 ug/l m
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

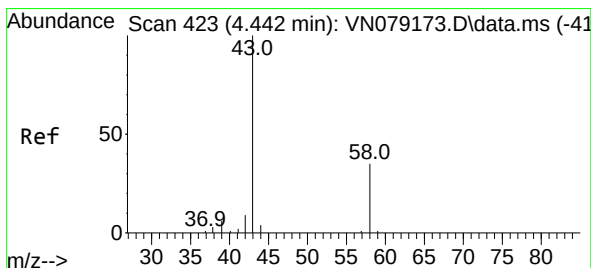
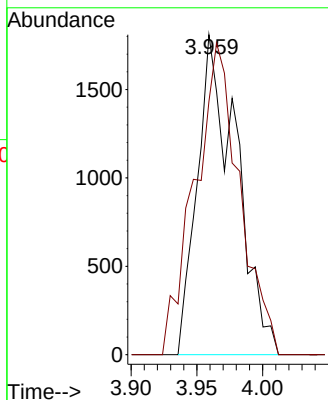
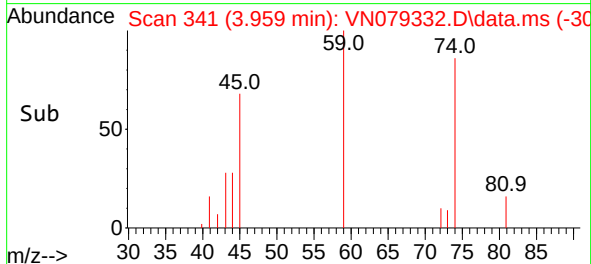
Instrument :
MSVOA_N
ClientSampleId :
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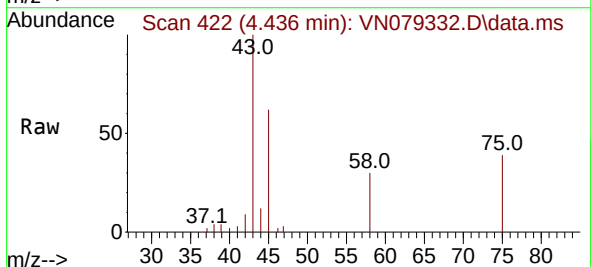
Tgt Ion: 74 Resp: 3748
Ion Ratio Lower Upper
74 100
45 111.3 17.6 158.0

Manual Integrations
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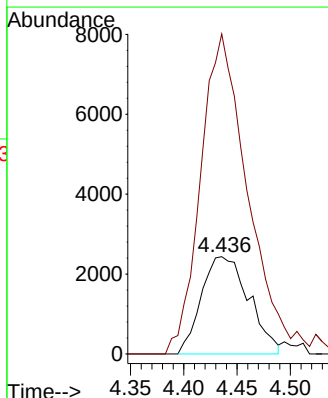
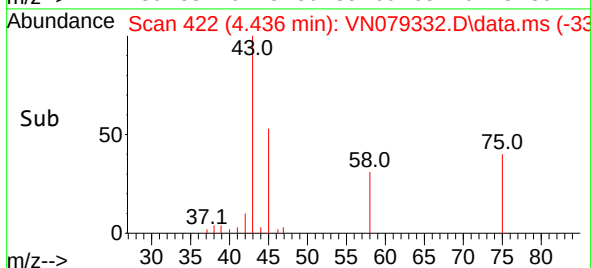
Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023

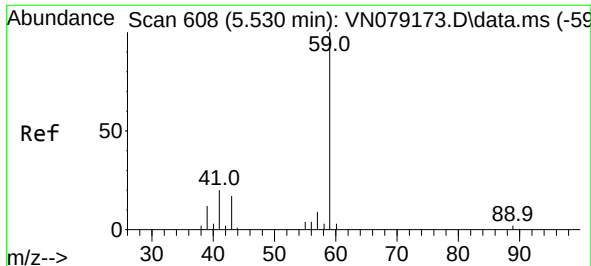


#15
Acetone
Concen: 31.711 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48



Tgt Ion: 58 Resp: 7578
Ion Ratio Lower Upper
58 100
43 310.1 228.3 342.5





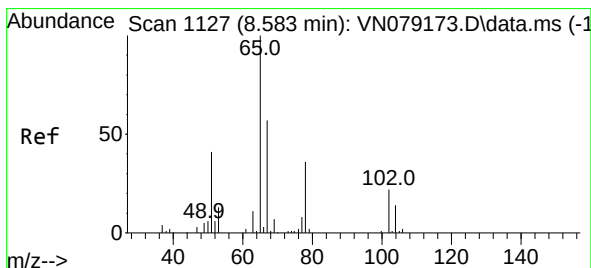
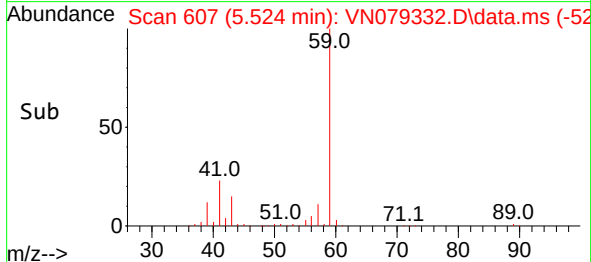
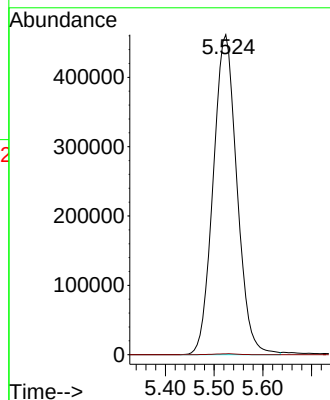
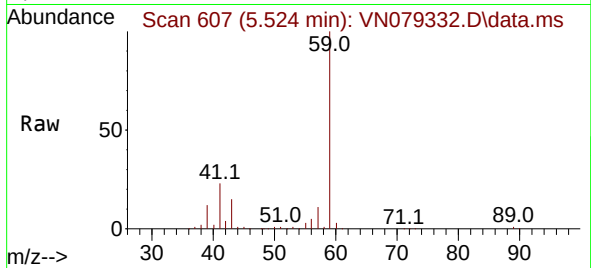
#23
tert-Butyl Alcohol
Concen: 4439.526 ug/l
RT: 5.524 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA

Tgt Ion: 59 Resp: 1564504
Ion Ratio Lower Upper
59 100
52 0.3 0.0 0.0

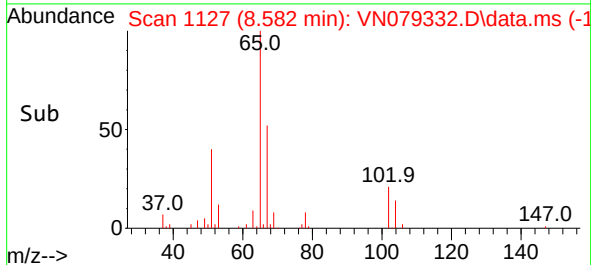
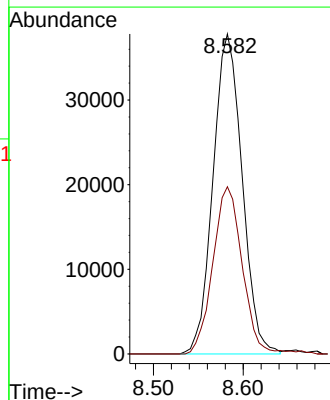
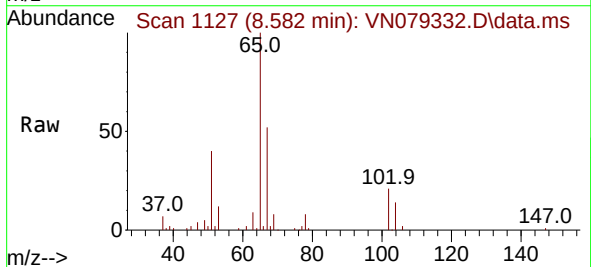
Manual Integrations
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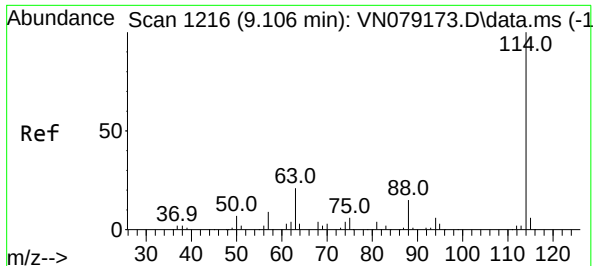
Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023



#27
1,2-Dichloroethane-d4
Concen: 29.725 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

Tgt Ion: 65 Resp: 85071
Ion Ratio Lower Upper
65 100
67 52.8 44.4 66.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN079332.D

Acq: 22 Sep 2023 11:48

Instrument :

MSVOA_N

ClientSampleId :

230920054-02-VOA

Tgt Ion:114 Resp: 17683

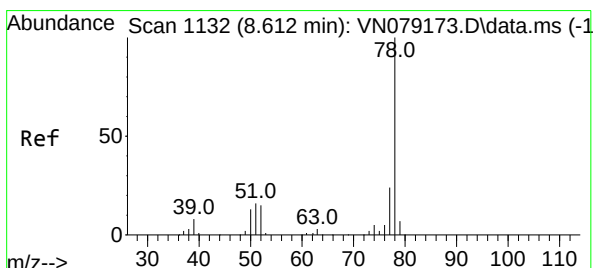
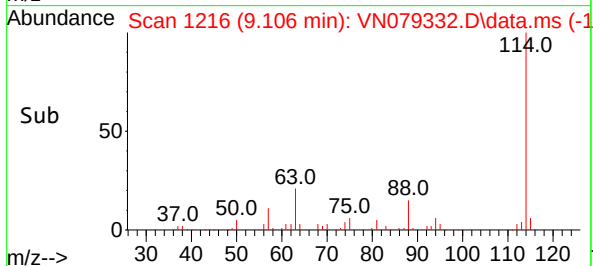
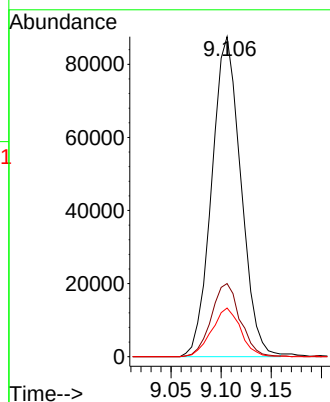
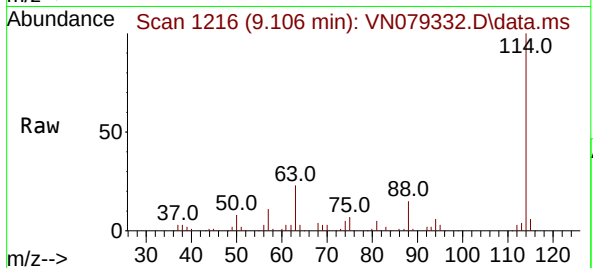
Ion	Ratio	Lower	Upper
114	100		
63	22.6	17.0	25.4
88	15.1	12.8	19.2

Manual Integrations

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Reviewed By :John Carlone 09/25/2023

Supervised By :Mahesh Dadoda 09/25/2023



#34

Benzene

Concen: 4.026 ug/l

RT: 8.612 min Scan# 1132

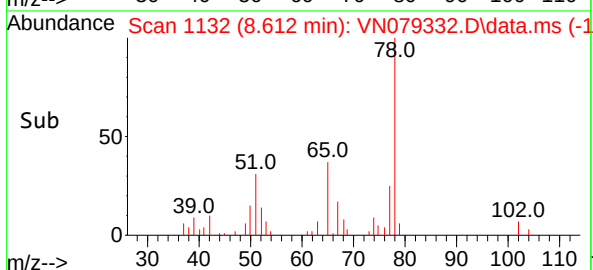
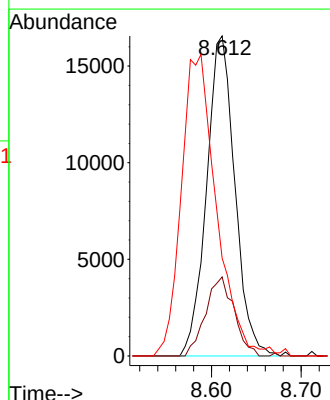
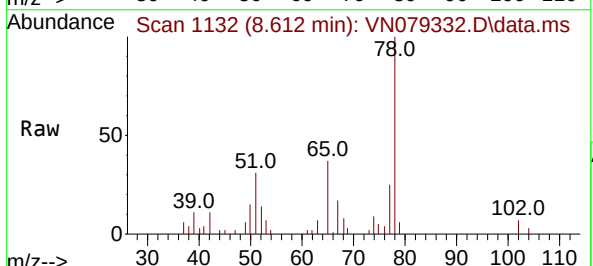
Delta R.T. -0.000 min

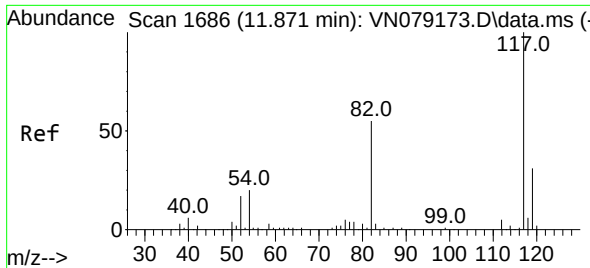
Lab File: VN079332.D

Acq: 22 Sep 2023 11:48

Tgt Ion: 78 Resp: 36263

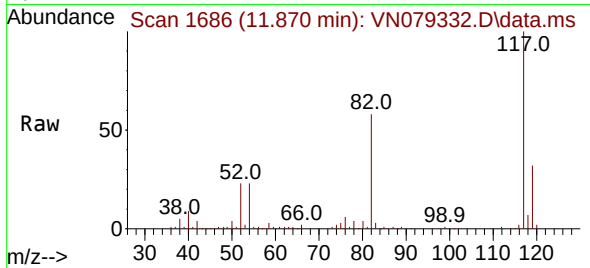
Ion	Ratio	Lower	Upper
78	100		
77	24.7	18.9	28.3
51	29.6	13.1	19.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 1186
Delta R.T. -0.001 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

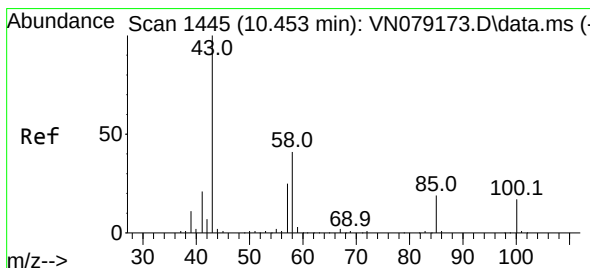
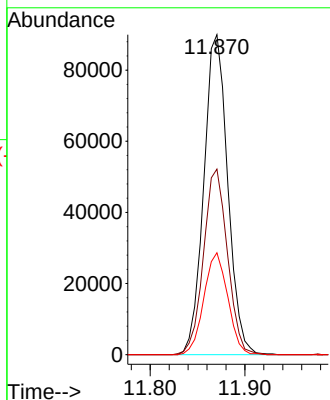
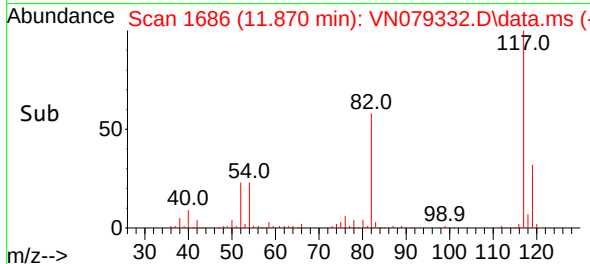
Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA



Tgt Ion:117 Resp: 15838
Ion Ratio Lower Upper
117 100
82 58.0 44.7 67.1
119 31.7 24.9 37.3

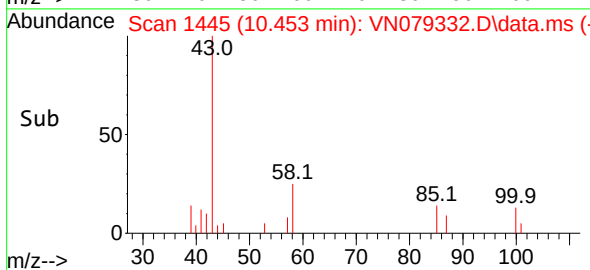
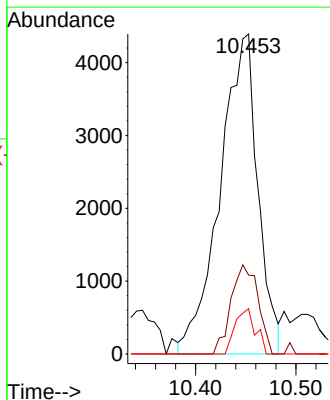
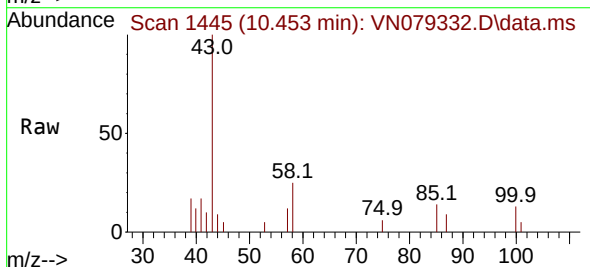
Manual Integrations
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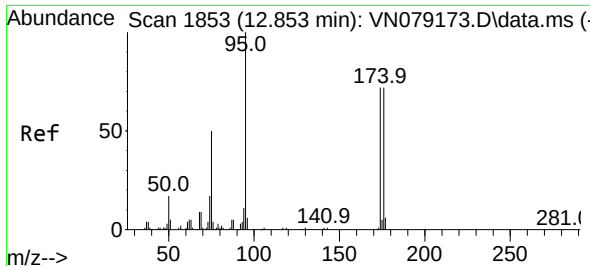
Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023



#58
4-Methyl-2-Pentanone
Concen: 3.961 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

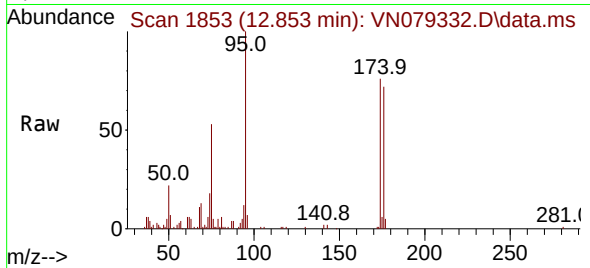
Tgt Ion: 43 Resp: 11513
Ion Ratio Lower Upper
43 100
58 19.9 33.6 50.4#
85 7.6 15.0 22.4#





#60
4-Bromofluorobenzene
Concen: 25.709 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

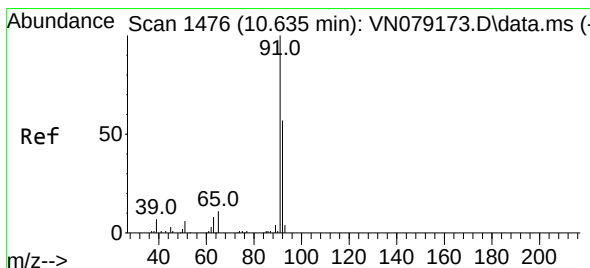
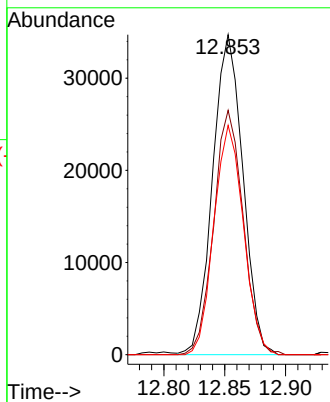
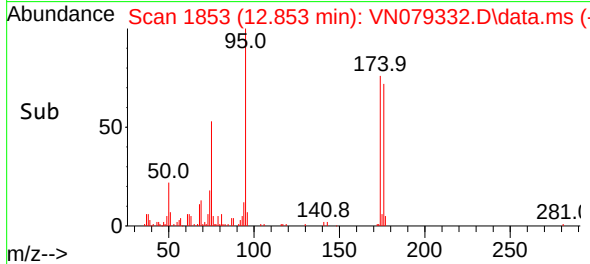
Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA



Tgt Ion: 95 Resp: 5999
Ion Ratio Lower Upper
95 100
174 74.2 59.5 89.3
176 69.9 59.1 88.7

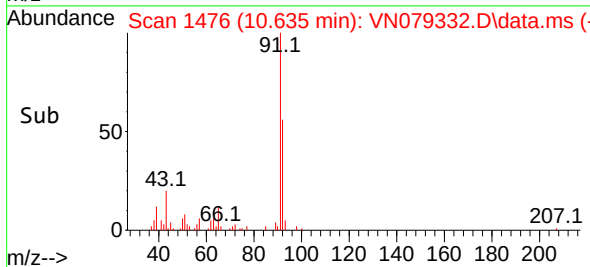
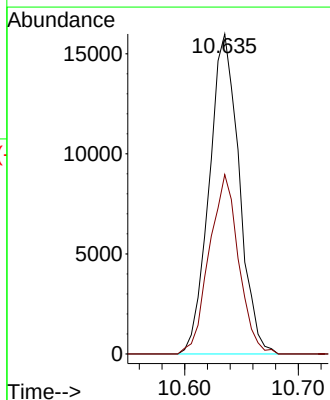
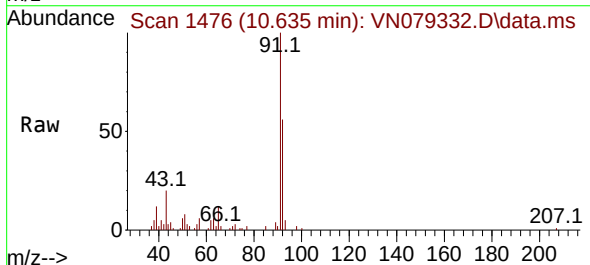
Manual Integrations
APPROVED

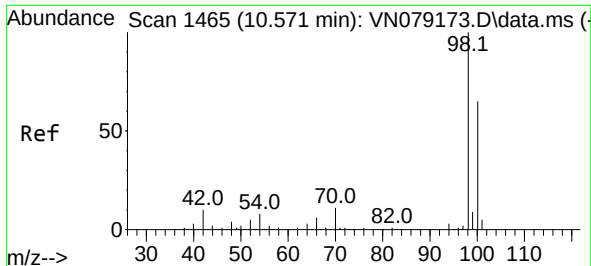
Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023



#62
Toluene
Concen: 3.173 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

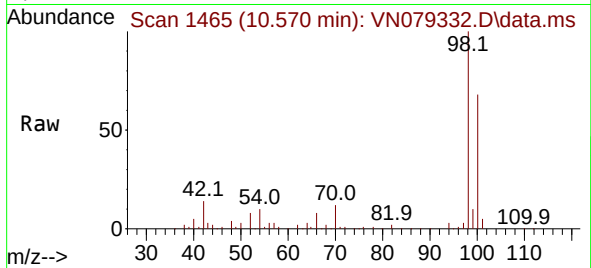
Tgt Ion: 91 Resp: 29265
Ion Ratio Lower Upper
91 100
92 55.2 45.7 68.5





#63
Toluene-d8
Concen: 29.041 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

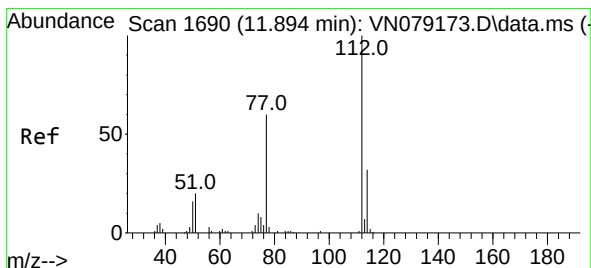
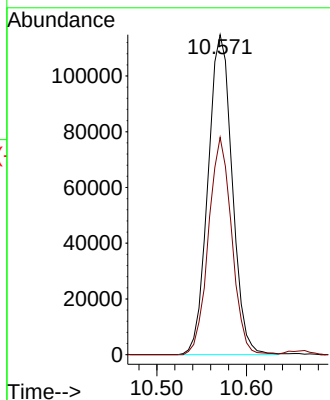
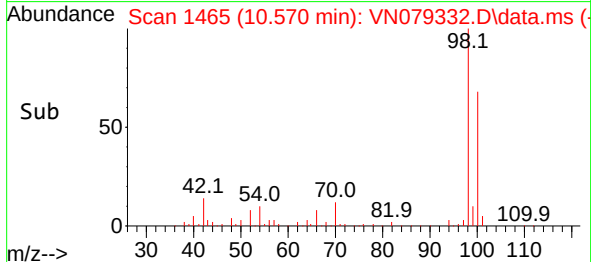
Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA



Tgt Ion: 98 Resp: 214954
Ion Ratio Lower Upper
98 100
100 65.2 52.5 78.7

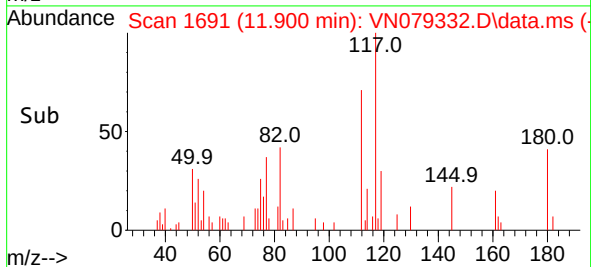
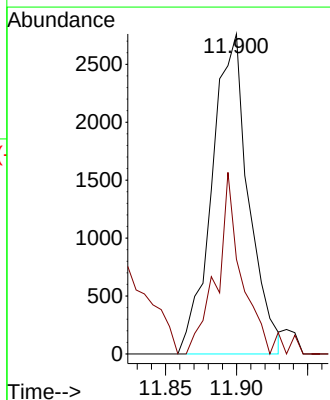
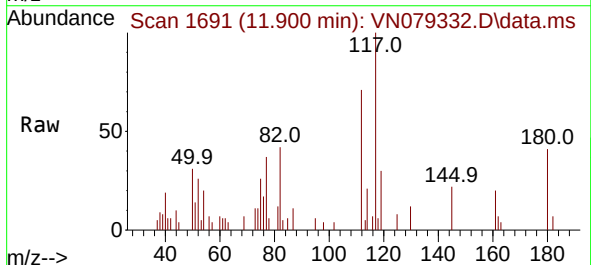
Manual Integrations
APPROVED

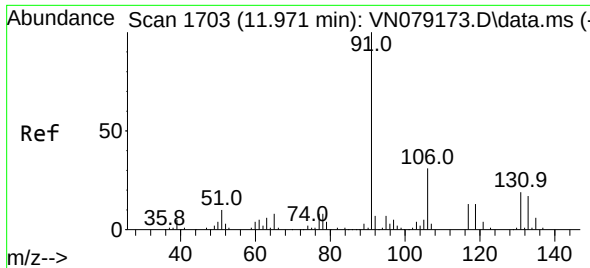
Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023



#64
Chlorobenzene
Concen: 0.923 ug/l
RT: 11.900 min Scan# 1691
Delta R.T. 0.006 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

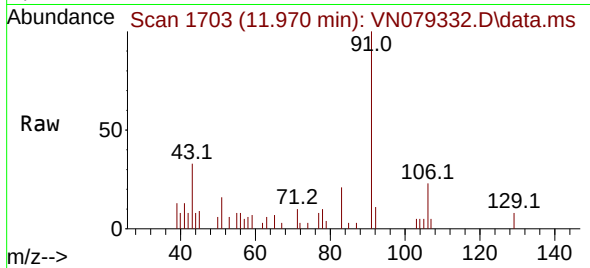
Tgt Ion:112 Resp: 4965
Ion Ratio Lower Upper
112 100
114 29.6 25.6 38.4





#66
Ethyl Benzene
Concen: 1.052 ug/l
RT: 11.970 min Scan# 11970
Delta R.T. -0.001 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

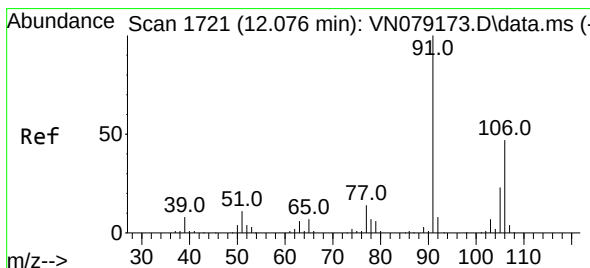
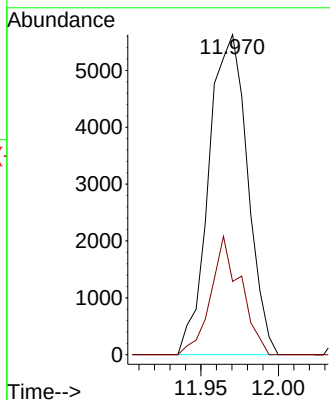
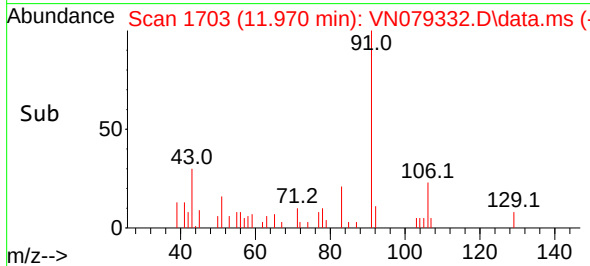
Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA



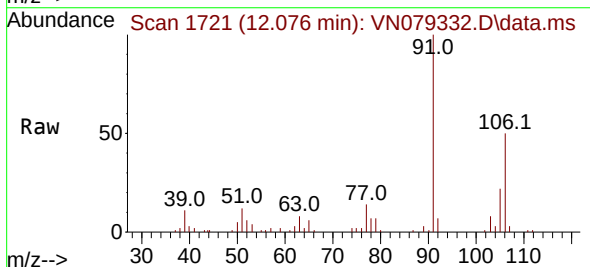
Tgt Ion: 91 Resp: 9770
Ion Ratio Lower Upper
91 100
106 22.9 25.0 37.6

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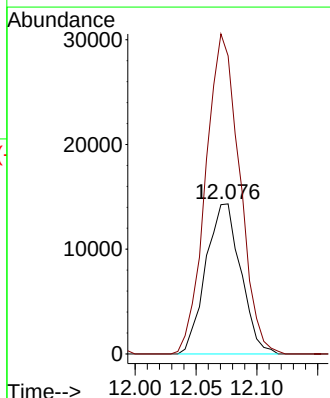
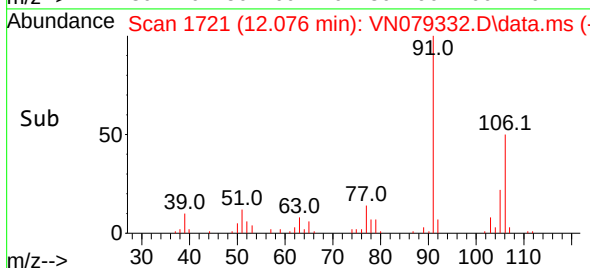
Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023

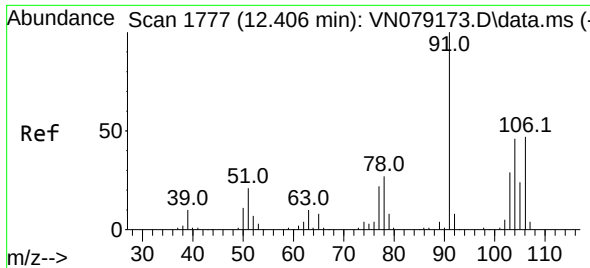


#67
m/p-Xylenes
Concen: 8.195 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48



Tgt Ion:106 Resp: 28631
Ion Ratio Lower Upper
106 100
91 207.2 165.2 247.8





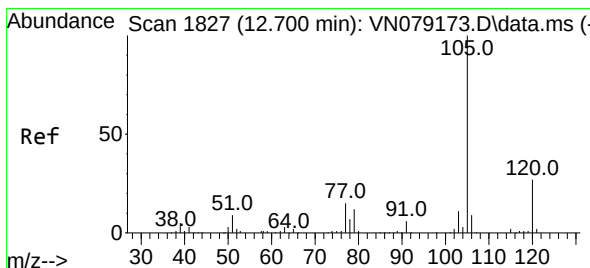
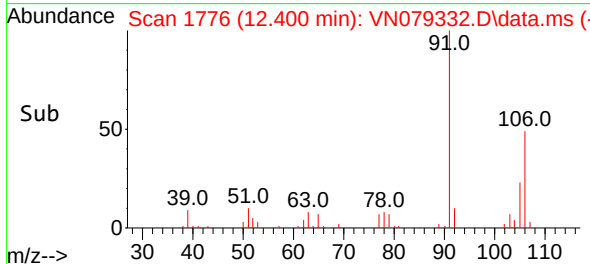
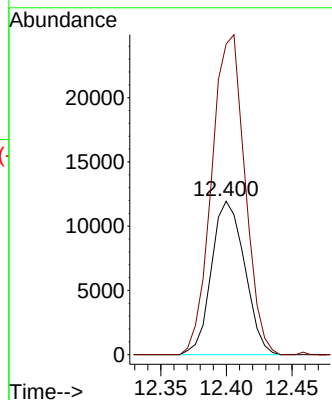
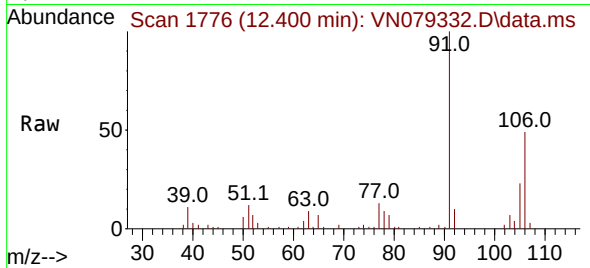
#68
o-Xylene
Concen: 6.242 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA

Tgt Ion:106 Resp: 21030
Ion Ratio Lower Upper
106 100
91 208.6 109.7 329.1

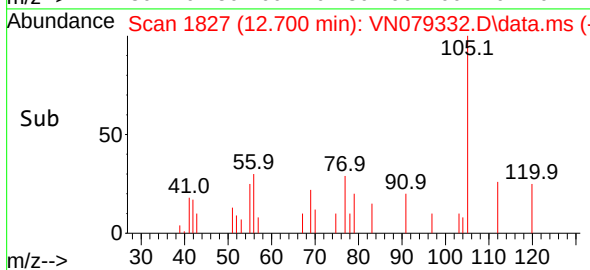
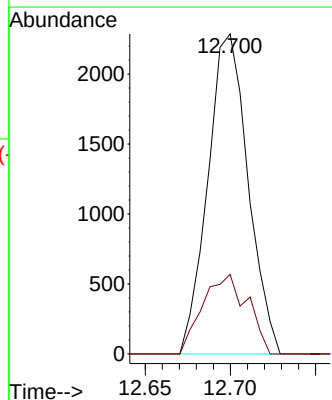
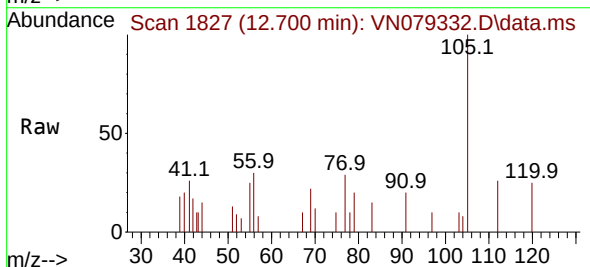
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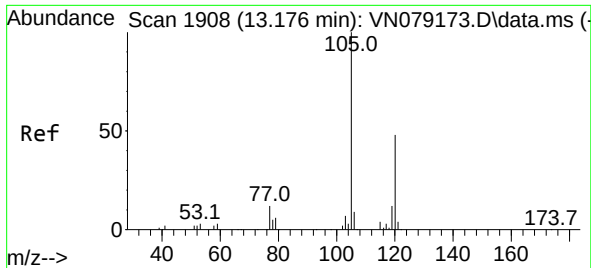
Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023



#70
Isopropylbenzene
Concen: 0.438 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. -0.000 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

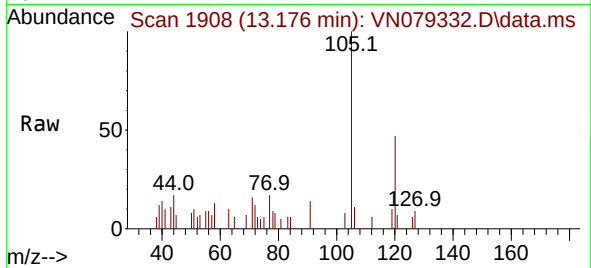
Tgt Ion:105 Resp: 3755
Ion Ratio Lower Upper
105 100
120 27.6 18.5 34.3





#76
1,3,5-Trimethylbenzene
Concen: 0.738 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

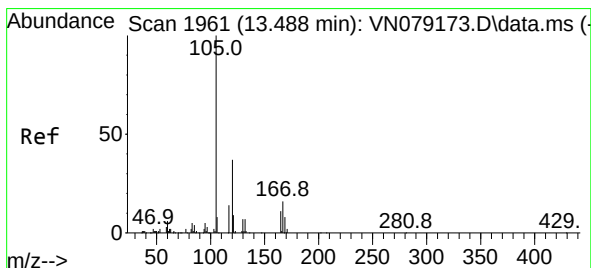
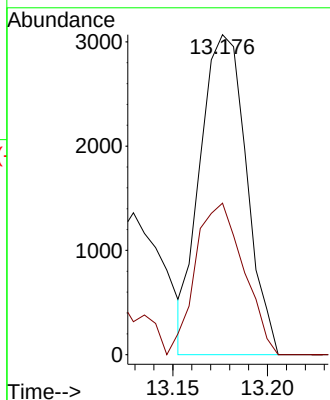
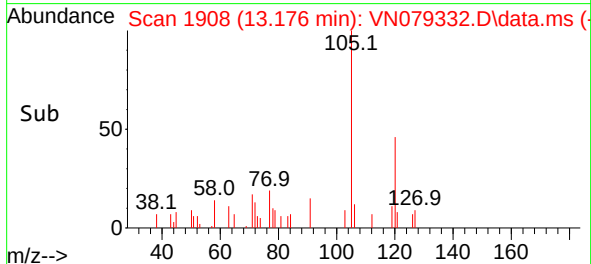
Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA



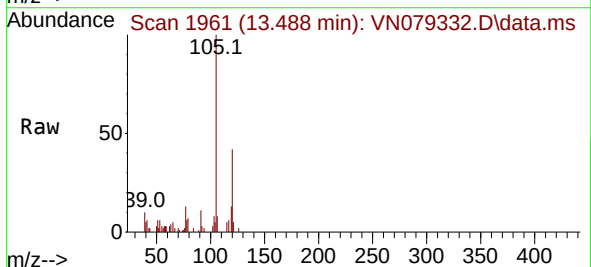
Tgt Ion:105 Resp: 5224
Ion Ratio Lower Upper
105 100
120 49.3 0.0 95.6

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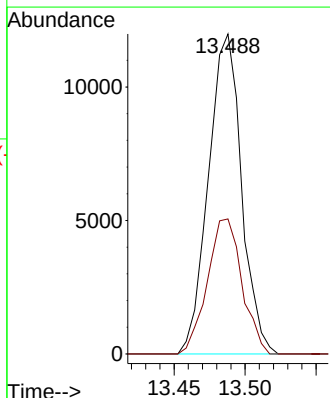
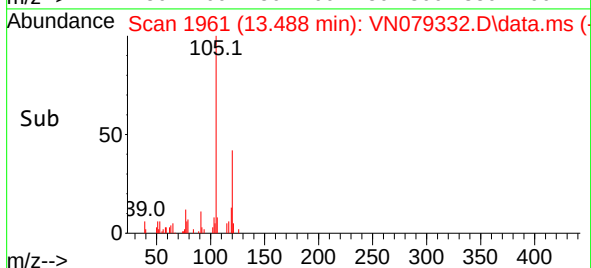
Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023

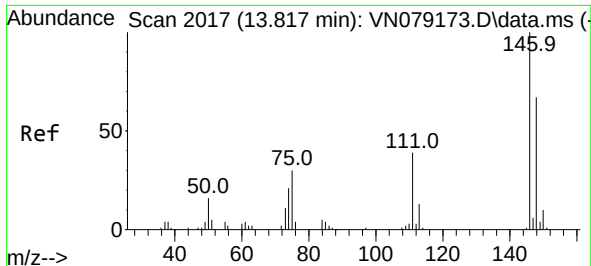


#80
1,2,4-Trimethylbenzene
Concen: 2.868 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. -0.000 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48



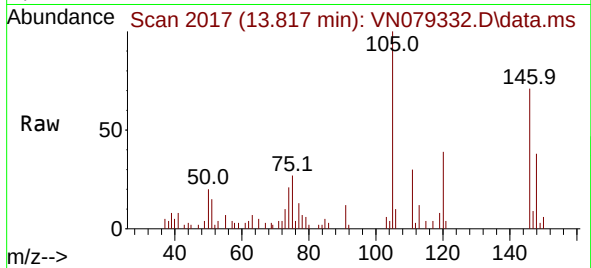
Tgt Ion:105 Resp: 19395
Ion Ratio Lower Upper
105 100
120 44.1 0.0 90.0





#84
1,4-Dichlorobenzene
Concen: 2.725 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. 0.000 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48

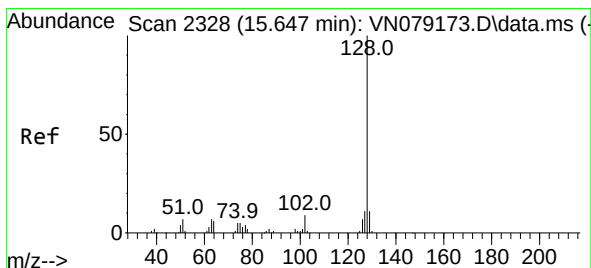
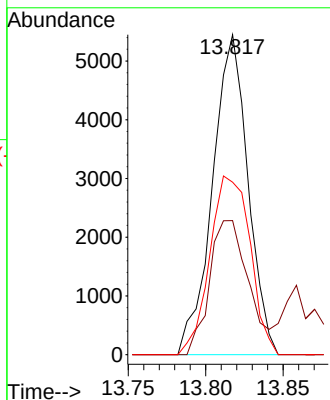
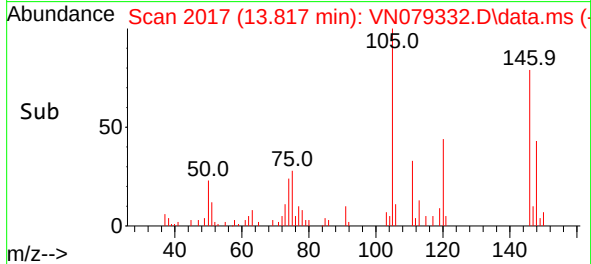
Instrument :
MSVOA_N
ClientSampleId :
230920054-02-VOA



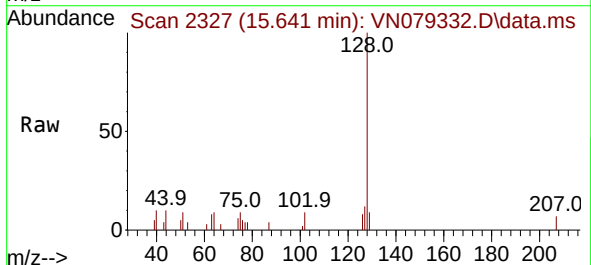
Tgt Ion:146 Resp: 868
Ion Ratio Lower Upper
146 100
111 46.1 19.5 58.5
148 63.4 32.1 96.5

Manual Integrations
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Reviewed By :John Carlone 09/25/2023
Supervised By :Mahesh Dadoda 09/25/2023



#91
Naphthalene
Concen: 3.365 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN079332.D
Acq: 22 Sep 2023 11:48



Tgt Ion:128 Resp: 12615
Ion Ratio Lower Upper
128 100
127 6.6 10.1 15.1#
129 5.7 8.5 12.7#

