

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121522\
 Data File : VN075824.D
 Acq On : 15 Dec 2022 17:47
 Operator : JC\MD
 Sample : N6074-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 221214029-02-VOA

Quant Time: Dec 16 03:11:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/16/2022
 Supervised By :Mahesh Dadoda 12/16/2022

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	370684	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	572912	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	502427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	228188	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	192194	47.659	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.320%		
35) Dibromofluoromethane	8.171	113	171406	48.311	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.620%		
50) Toluene-d8	10.571	98	664905	50.123	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.240%		
62) 4-Bromofluorobenzene	12.847	95	219867	50.042	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	100.080%		
Target Compounds					Qvalue	
4) Vinyl Chloride	2.518	62	1199	0.307	ug/l	89
8) Diethyl Ether	3.971	74	5405	2.498	ug/l	98
11) Tert butyl alcohol	5.530	59	2801342	4909.280	ug/l	100
16) Acetone	4.442	43	72899	52.440	ug/l	100
17) Carbon Disulfide	4.730	76	4072	0.512	ug/l #	91
19) Methyl tert-butyl Ether	5.812	73	14705	1.359	ug/l #	89
29) Tetrahydrofuran	7.841	42	815858	668.848	ug/l	99
40) Benzene	8.612	78	44751	3.077	ug/l	96
49) 1,4-Dioxane	9.694	88	4802	69.446	ug/l #	88
51) 4-Methyl-2-Pentanone	10.441	43	22944m	6.075	ug/l	
52) Toluene	10.635	92	67855	7.165	ug/l	98
65) Chlorobenzene	11.894	112	8777	0.851	ug/l	99
67) Ethyl Benzene	11.965	91	32873	1.889	ug/l	96
68) m/p-Xylenes	12.071	106	50549	7.338	ug/l	99
69) o-Xylene	12.400	106	35894	5.265	ug/l	97
73) Isopropylbenzene	12.700	105	13400	0.813	ug/l	98
80) 1,3,5-Trimethylbenzene	13.176	105	11751	0.851	ug/l	92
84) 1,2,4-Trimethylbenzene	13.482	105	33734	2.464	ug/l	99
86) p-Isopropyltoluene	13.735	119	51448	3.681	ug/l	99
88) 1,4-Dichlorobenzene	13.818	146	21528	2.734	ug/l	88
95) Naphthalene	15.641	128	113298	10.903	ug/l	100

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

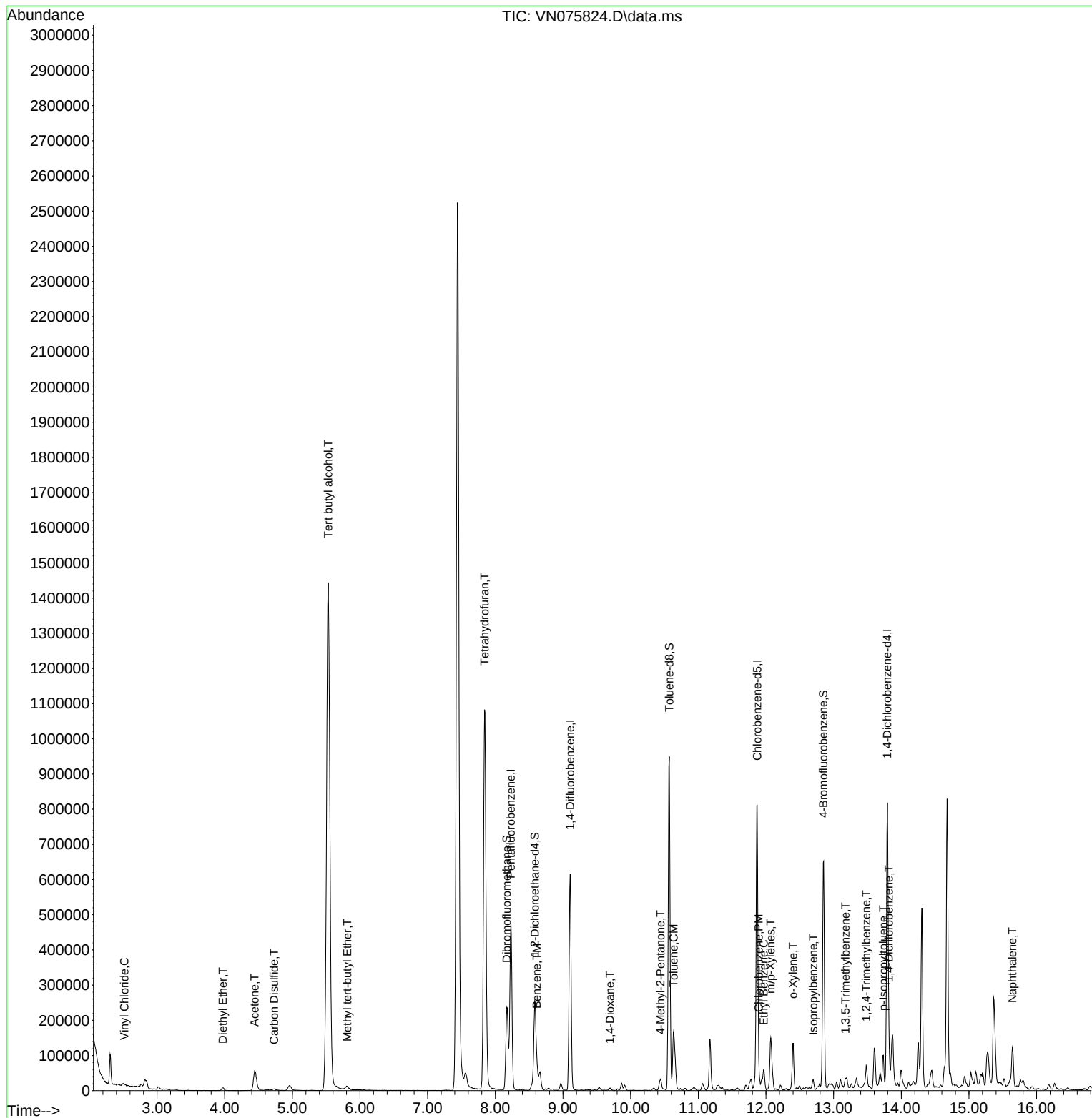
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121522\
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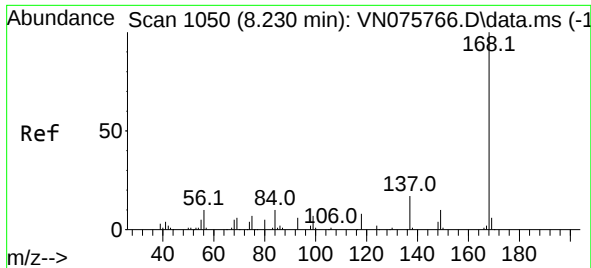
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA

Quant Time: Dec 16 03:11:33 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
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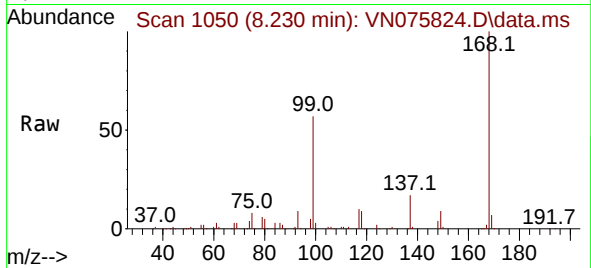
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

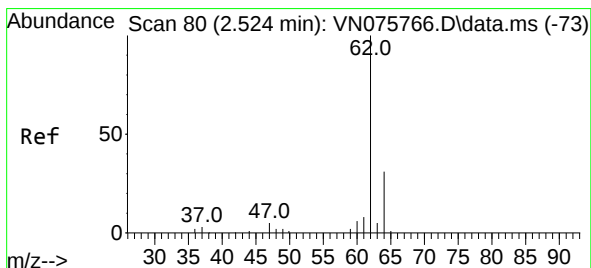
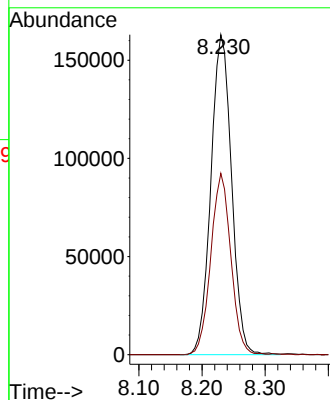
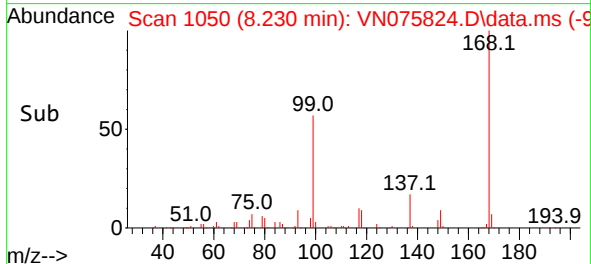
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



Tgt Ion:168 Resp: 370684
Ion Ratio Lower Upper
168 100
99 56.6 44.2 66.4

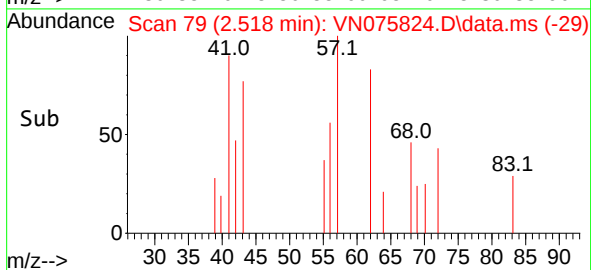
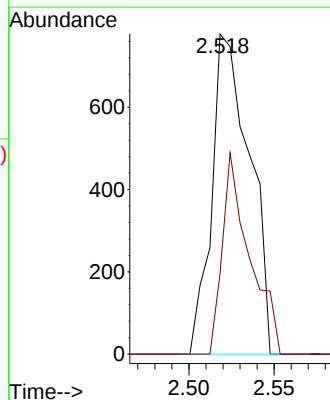
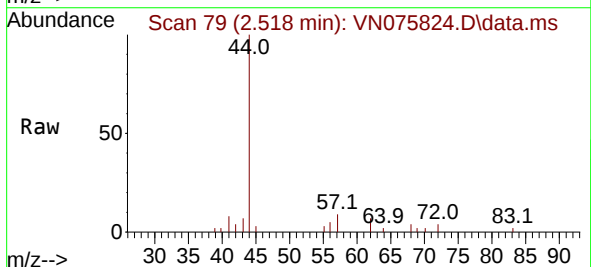
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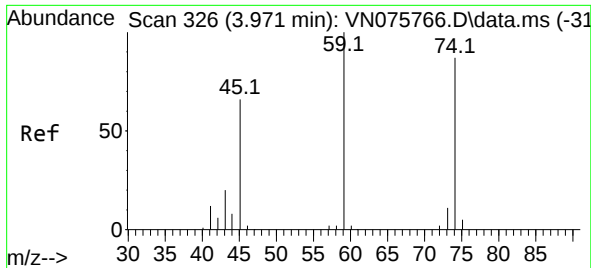
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#4
Vinyl Chloride
Concen: 0.307 ug/l
RT: 2.518 min Scan# 79
Delta R.T. -0.006 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

Tgt Ion: 62 Resp: 1199
Ion Ratio Lower Upper
62 100
64 25.2 24.9 37.3





#8

Diethyl Ether

Concen: 2.498 ug/l

RT: 3.971 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN075824.D

Acq: 15 Dec 2022 17:47

Instrument :

MSVOA_N

ClientSampleId :

221214029-02-VOA

Tgt Ion: 74 Resp: 540

Ion Ratio Lower Upper

74 100

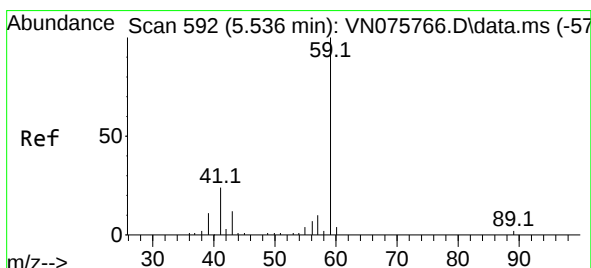
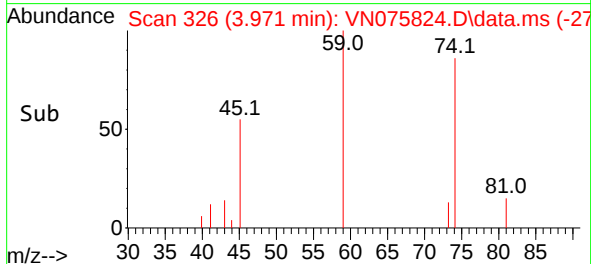
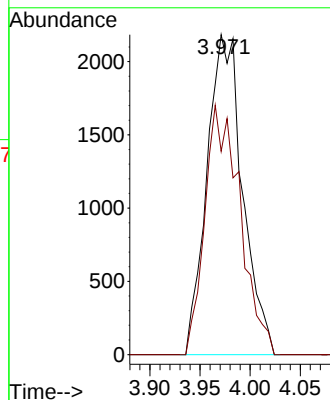
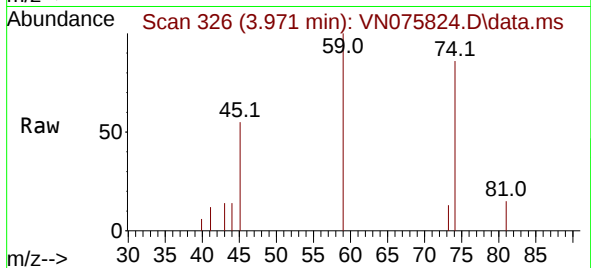
45 77.0 37.8 113.4

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#11

Tert butyl alcohol

Concen: 4909.280 ug/l

RT: 5.530 min Scan# 591

Delta R.T. -0.006 min

Lab File: VN075824.D

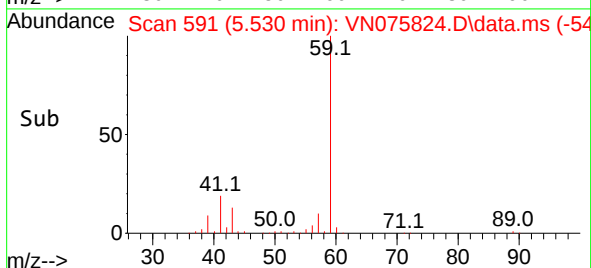
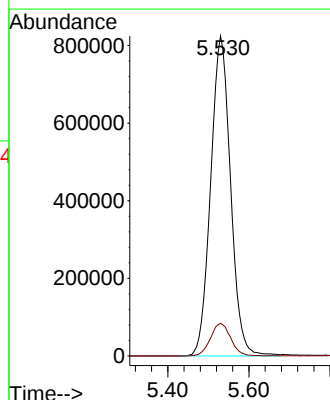
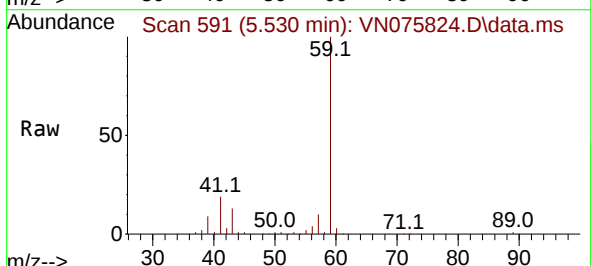
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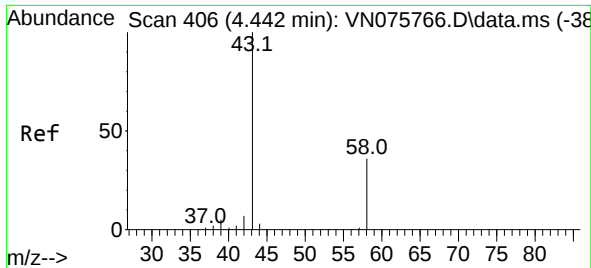
Tgt Ion: 59 Resp: 2801342

Ion Ratio Lower Upper

59 100

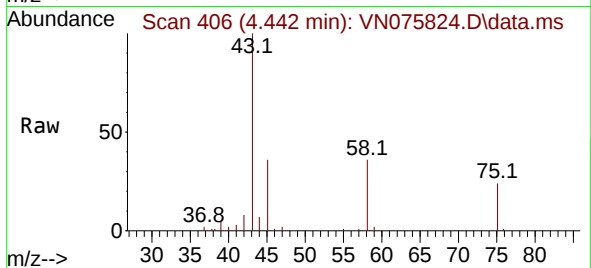
57 10.4 8.2 12.4





#16
Acetone
Concen: 52.440 ug/l
RT: 4.442 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

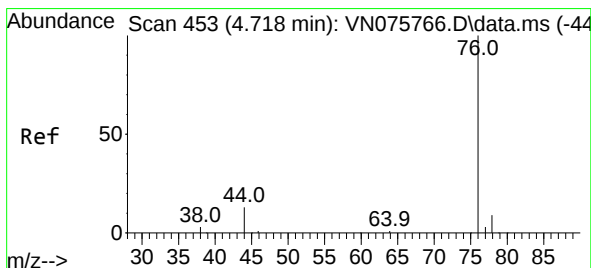
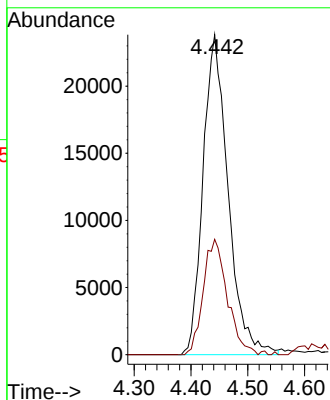
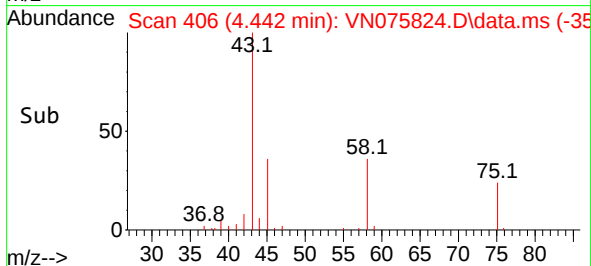
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



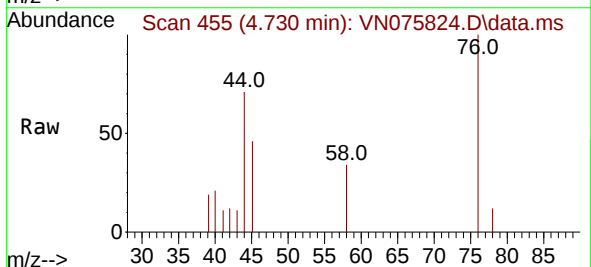
Tgt Ion: 43 Resp: 7289
Ion Ratio Lower Upper
43 100
58 36.1 28.6 43.0

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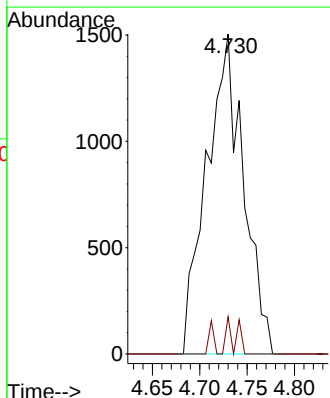
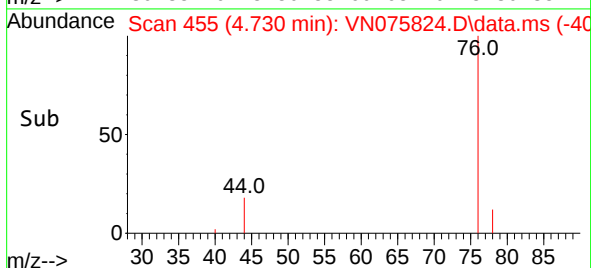
Reviewed By :John Carlone 12/16/2022
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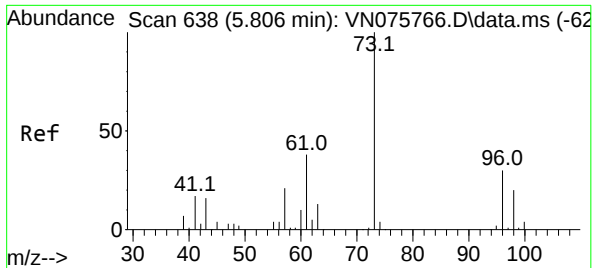


#17
Carbon Disulfide
Concen: 0.512 ug/l
RT: 4.730 min Scan# 455
Delta R.T. 0.012 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47



Tgt Ion: 76 Resp: 4072
Ion Ratio Lower Upper
76 100
78 11.6 6.8 10.2#





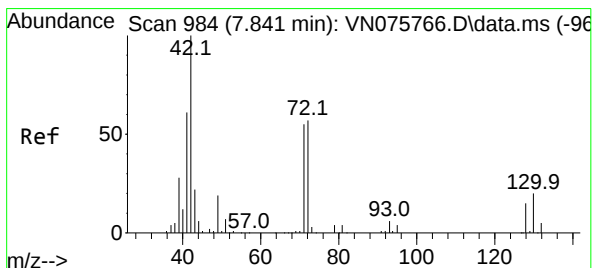
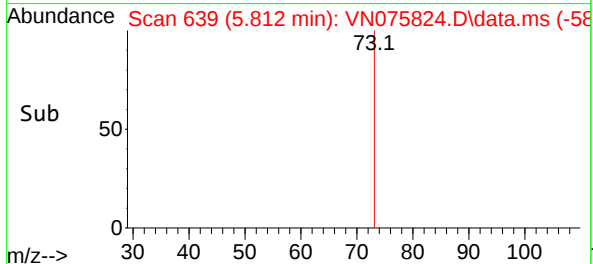
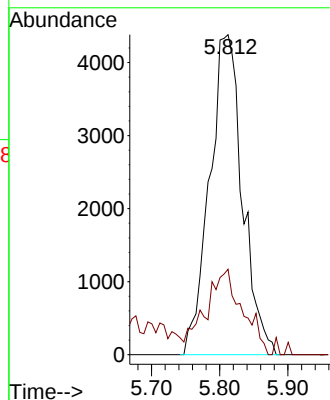
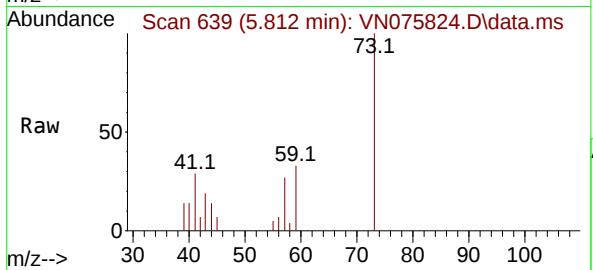
#19
Methyl tert-butyl Ether
Concen: 1.359 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA

Tgt Ion: 73 Resp: 1470
Ion Ratio Lower Upper
73 100
57 26.7 17.1 25.7

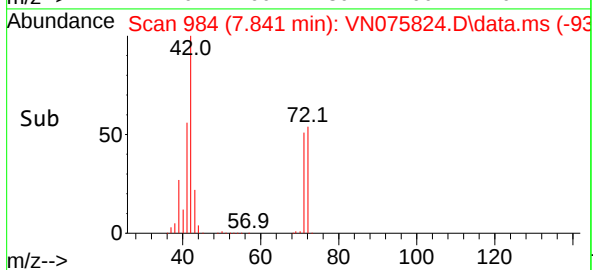
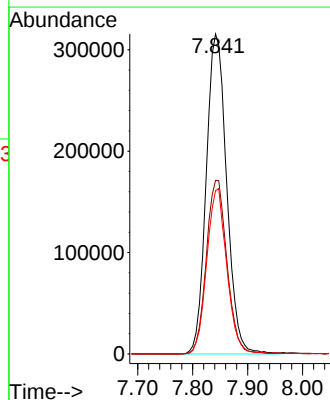
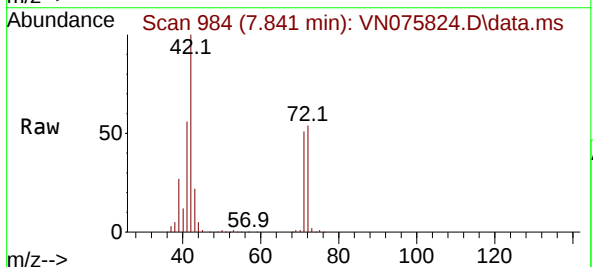
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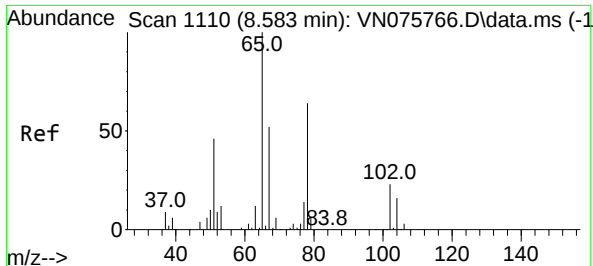
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#29
Tetrahydrofuran
Concen: 668.848 ug/l
RT: 7.841 min Scan# 984
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

Tgt Ion: 42 Resp: 815858
Ion Ratio Lower Upper
42 100
72 54.8 44.5 66.7
71 50.7 41.0 61.6





#33

1,2-Dichloroethane-d4

Concen: 47.659 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN075824.D

Acq: 15 Dec 2022 17:47

Instrument :

MSVOA_N

ClientSampleId :

221214029-02-VOA

Tgt Ion: 65 Resp: 192194

Ion Ratio Lower Upper

65 100

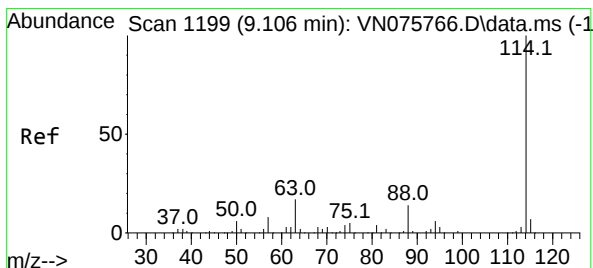
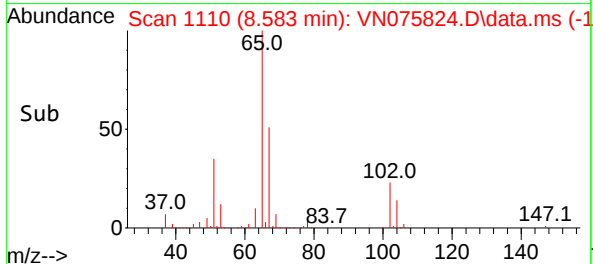
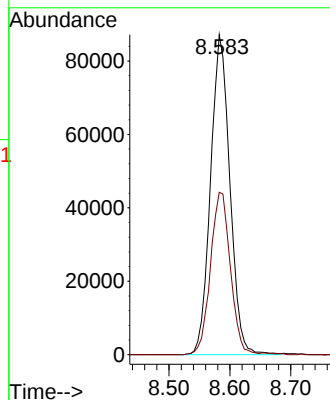
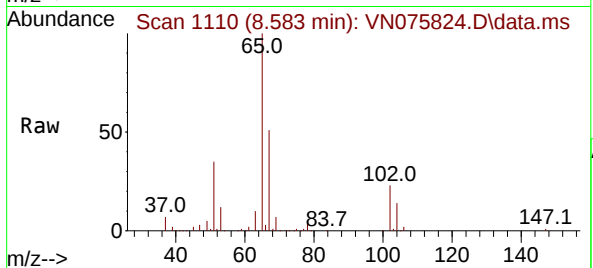
67 52.2 0.0 103.4

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075824.D

Acq: 15 Dec 2022 17:47

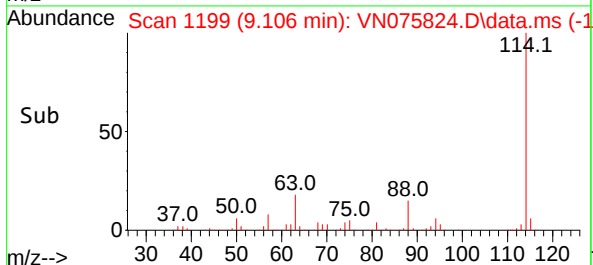
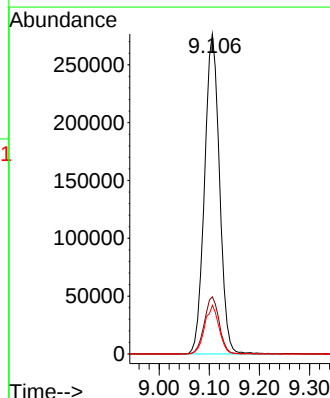
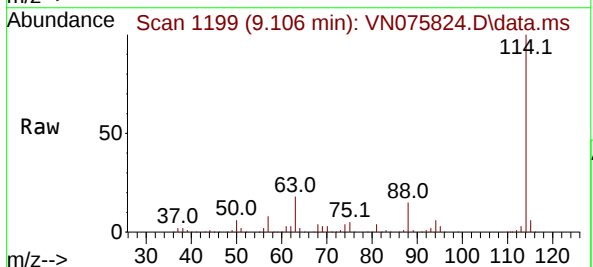
Tgt Ion:114 Resp: 572912

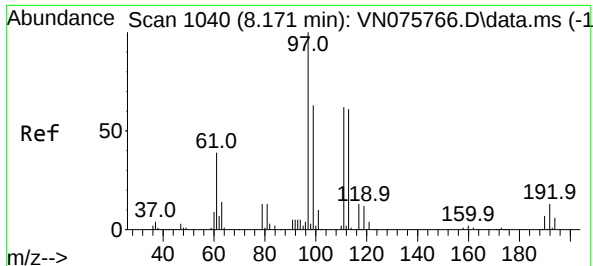
Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.4

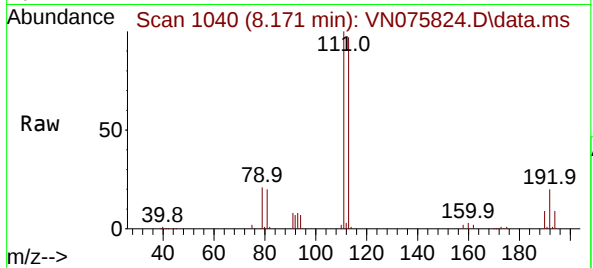
88 15.2 0.0 28.8





#35
Dibromofluoromethane
Concen: 48.311 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

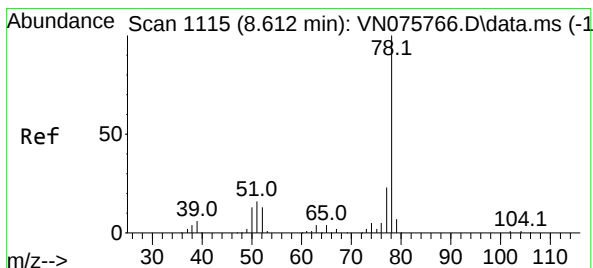
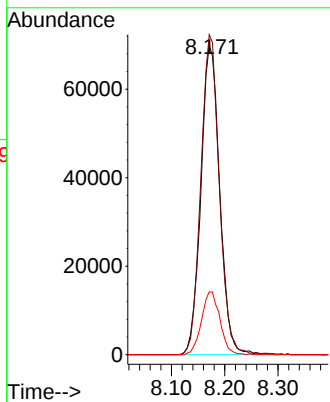
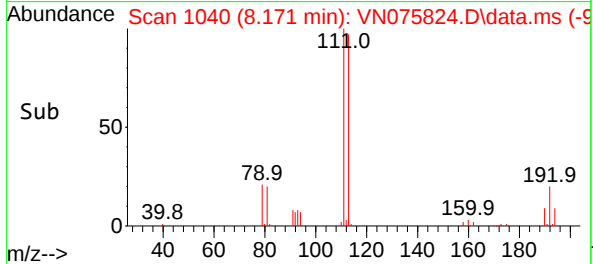
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



Tgt Ion:113 Resp: 171400
Ion Ratio Lower Upper
113 100
111 101.4 83.4 125.2
192 19.9 16.1 24.1

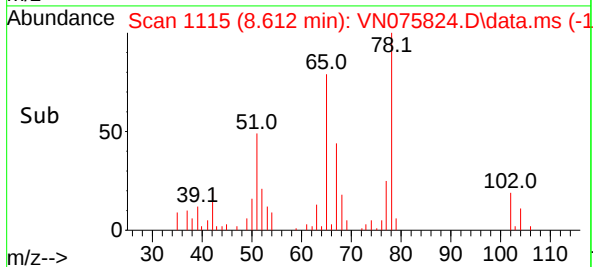
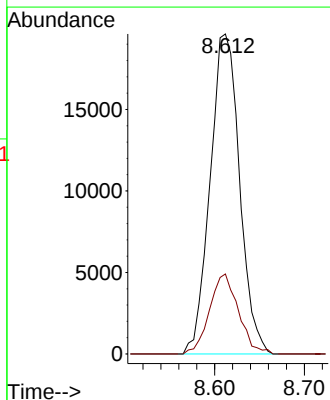
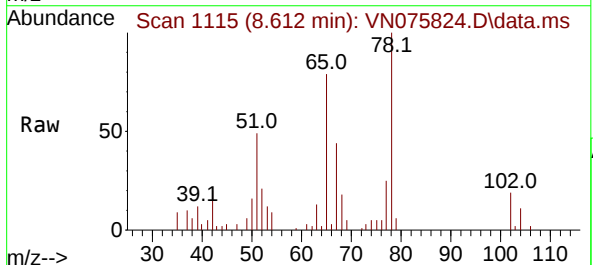
Manual Integrations
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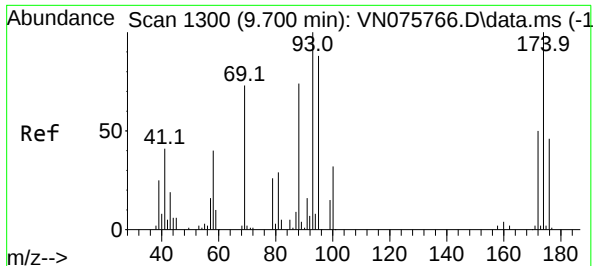
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#40
Benzene
Concen: 3.077 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

Tgt Ion: 78 Resp: 44751
Ion Ratio Lower Upper
78 100
77 25.0 18.5 27.7





#49

1,4-Dioxane

Concen: 69.446 ug/l

RT: 9.694 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN075824.D

Acq: 15 Dec 2022 17:47

Instrument :

MSVOA_N

ClientSampleId :

221214029-02-VOA

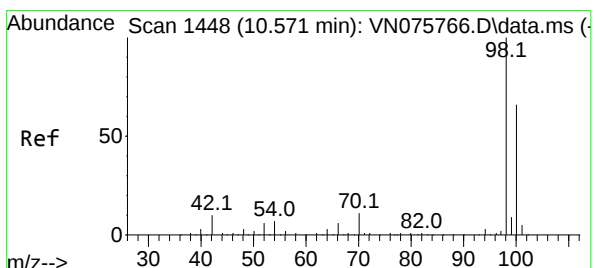
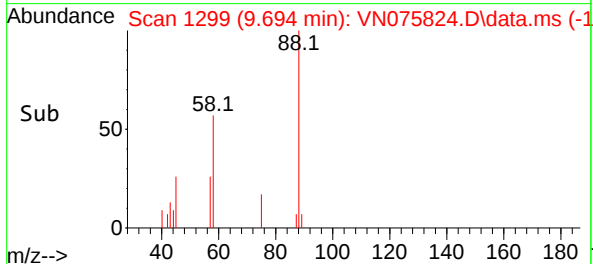
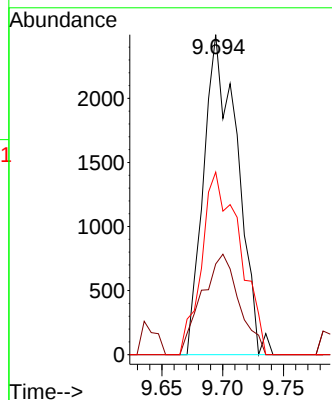
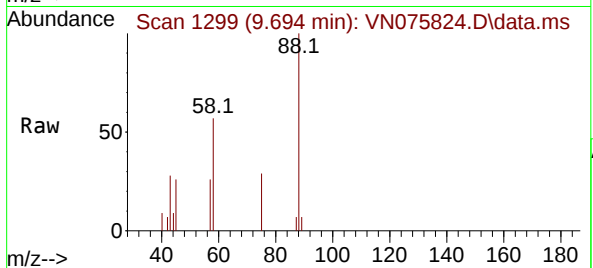
Tgt Ion:	88	Resp:	480
Ion Ratio	Lower	Upper	
88	100		
43	34.7	17.1	25.7
58	64.8	47.8	71.8

Manual Integrations

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#50

Toluene-d8

Concen: 50.123 ug/l

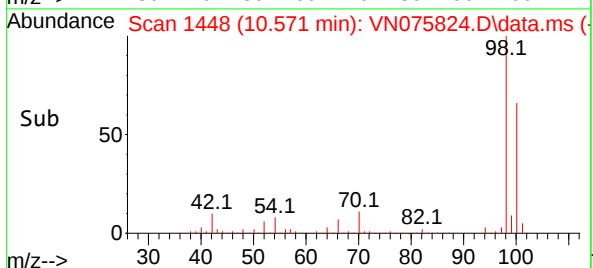
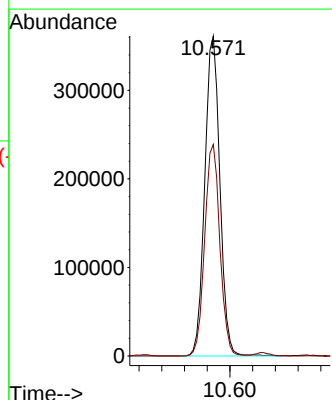
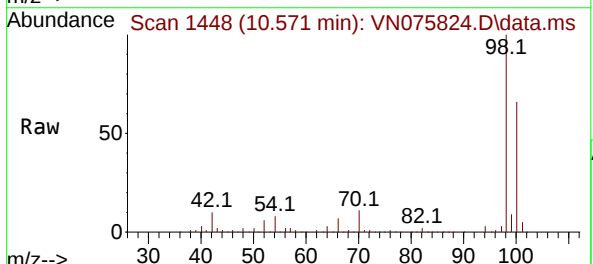
RT: 10.571 min Scan# 1448

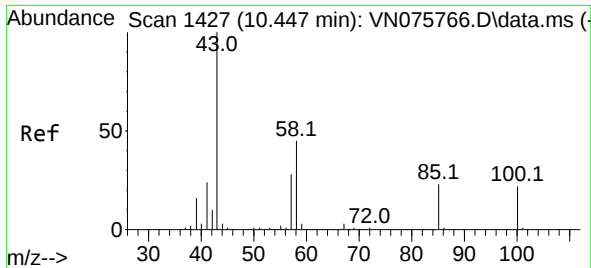
Delta R.T. 0.000 min

Lab File: VN075824.D

Acq: 15 Dec 2022 17:47

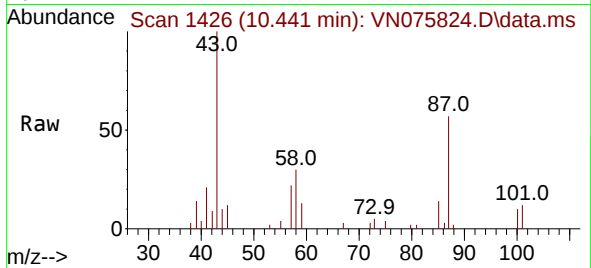
Tgt Ion:	98	Resp:	664905
Ion Ratio	Lower	Upper	
98	100		
100	66.4	52.1	78.1





#51
4-Methyl-2-Pentanone
Concen: 6.075 ug/l m
RT: 10.441 min Scan# 1426
Delta R.T. -0.006 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

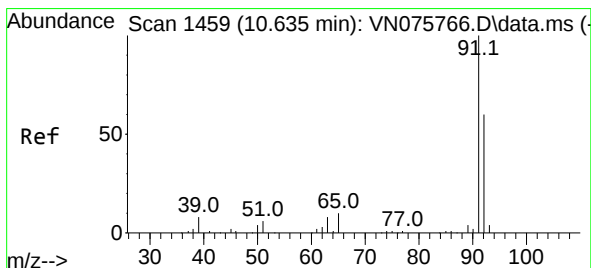
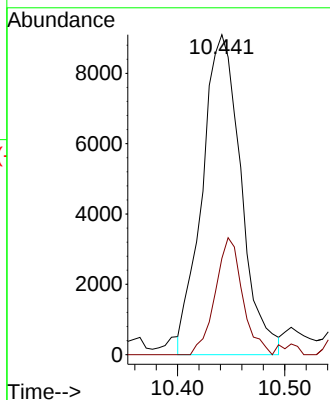
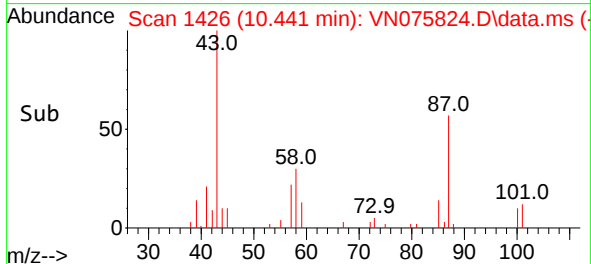
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



Tgt Ion: 43 Resp: 22944
Ion Ratio Lower Upper
43 100
58 26.6 35.5 53.3

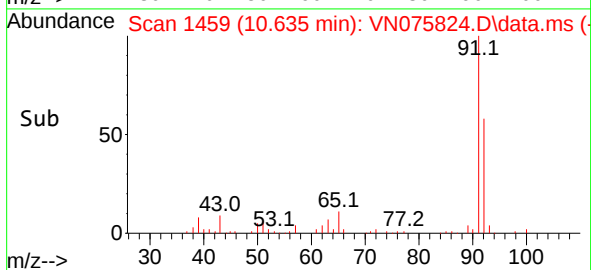
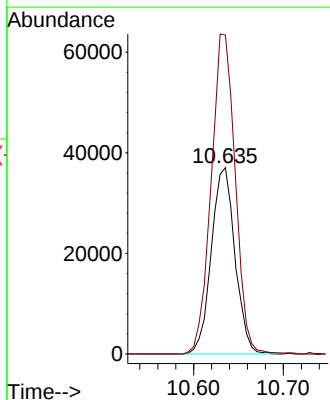
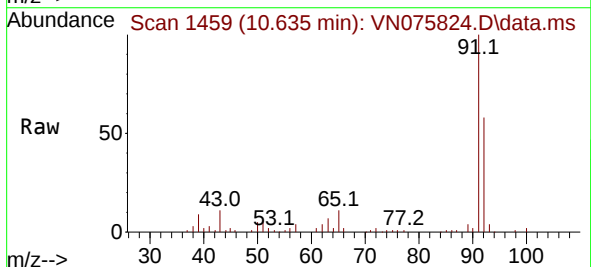
Manual Integrations
APPROVED

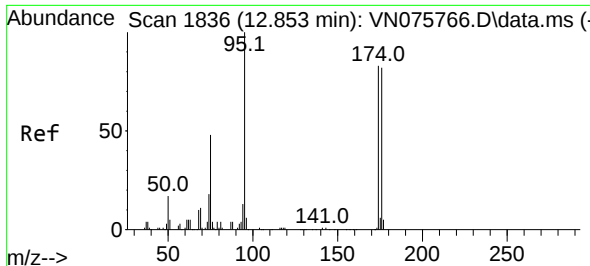
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#52
Toluene
Concen: 7.165 ug/l
RT: 10.635 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

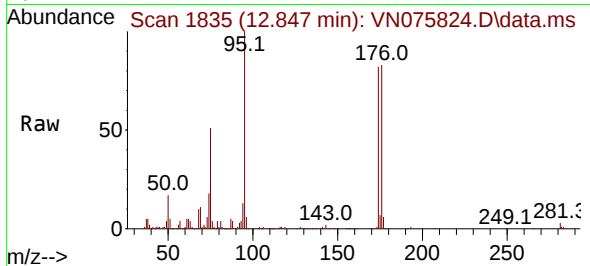
Tgt Ion: 92 Resp: 67855
Ion Ratio Lower Upper
92 100
91 174.6 137.3 205.9





#62
4-Bromofluorobenzene
Concen: 50.042 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.006 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

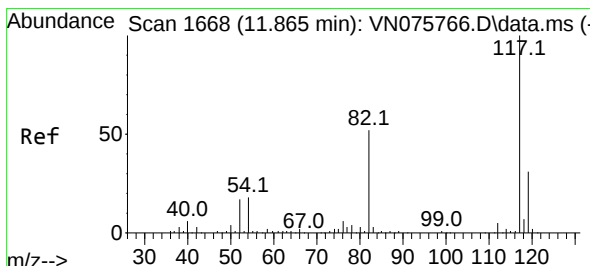
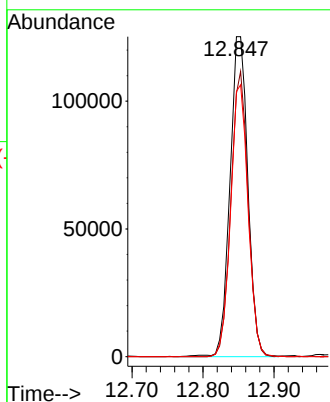
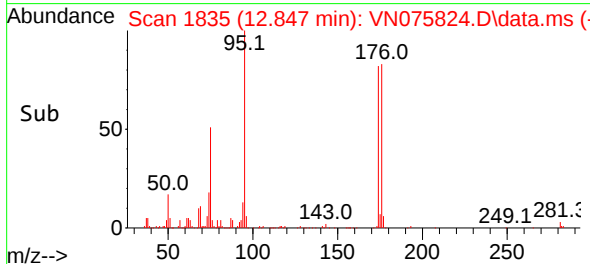
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



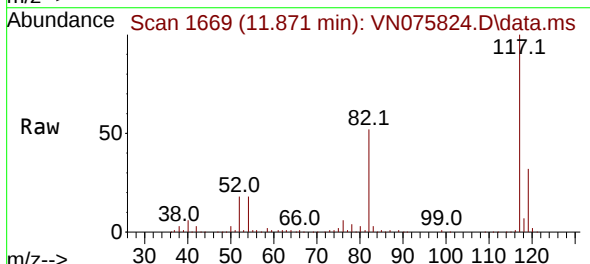
Tgt Ion: 95 Resp: 21986
Ion Ratio Lower Upper
95 100
174 85.3 0.0 171.6
176 82.9 0.0 169.2

Manual Integrations
APPROVED

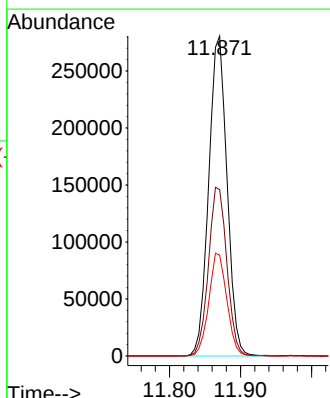
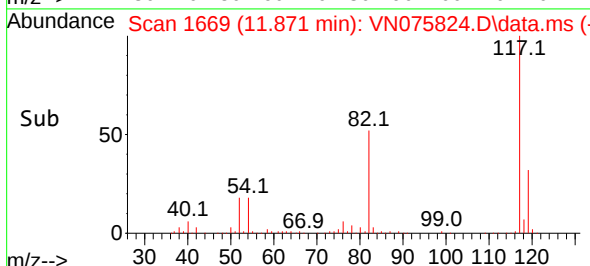
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022

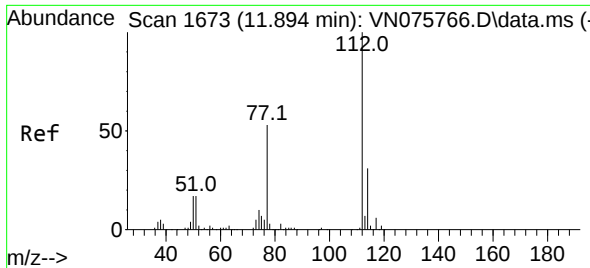


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47



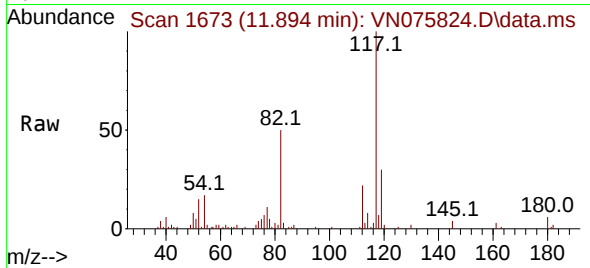
Tgt Ion:117 Resp: 502427
Ion Ratio Lower Upper
117 100
82 52.0 41.3 61.9
119 31.5 24.6 37.0





#65
Chlorobenzene
Concen: 0.851 ug/l
RT: 11.894 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

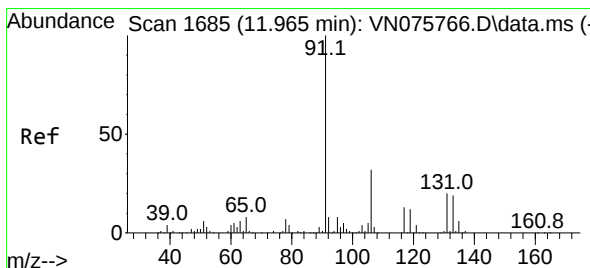
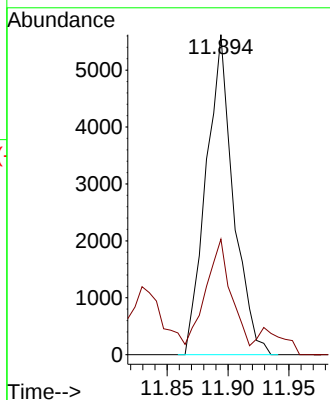
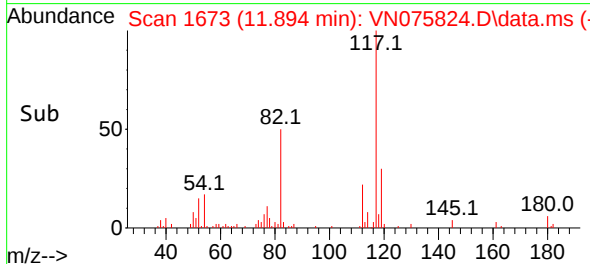
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



Tgt Ion: 112 Resp: 877
Ion Ratio Lower Upper
112 100
114 30.6 24.7 37.1

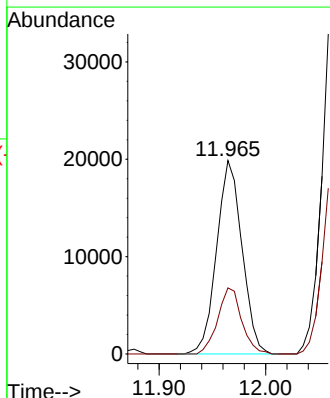
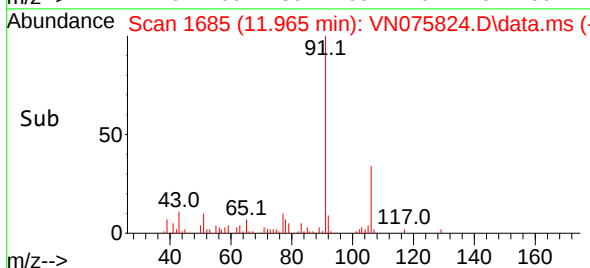
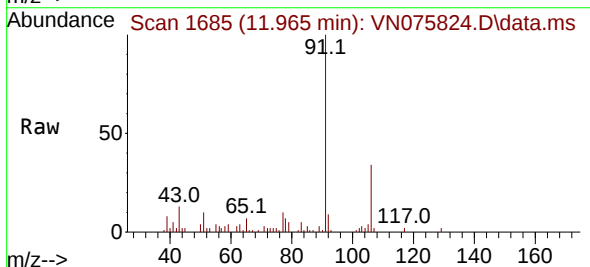
Manual Integrations
APPROVED

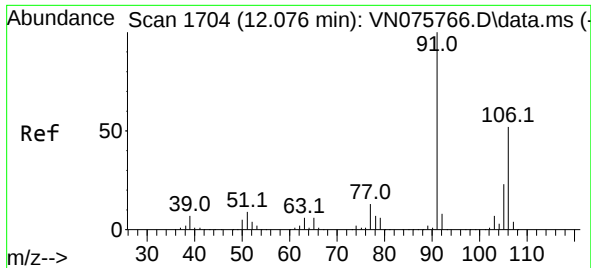
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#67
Ethyl Benzene
Concen: 1.889 ug/l
RT: 11.965 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

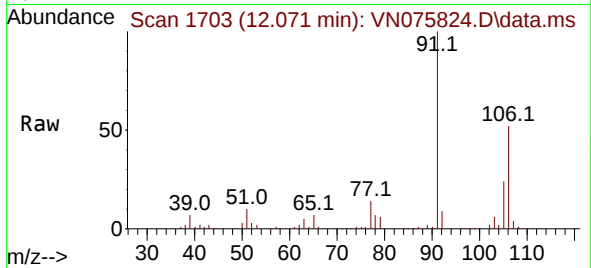
Tgt Ion: 91 Resp: 32873
Ion Ratio Lower Upper
91 100
106 34.2 25.7 38.5





#68
m/p-Xylenes
Concen: 7.338 ug/l
RT: 12.071 min Scan# 1704
Delta R.T. -0.006 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

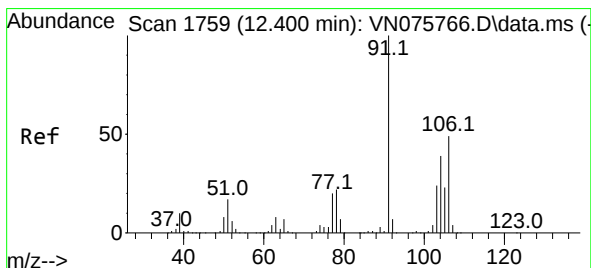
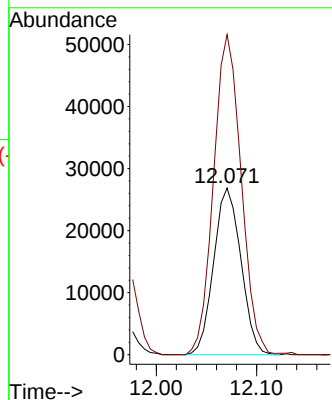
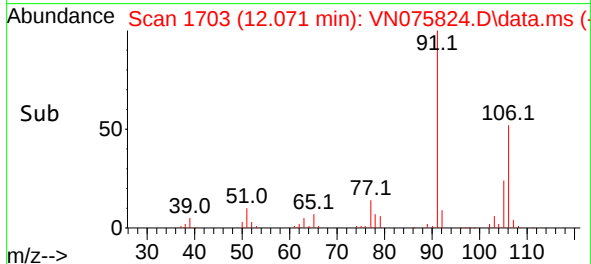
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



Tgt Ion:106 Resp: 50549
Ion Ratio Lower Upper
106 100
91 194.8 156.6 235.0

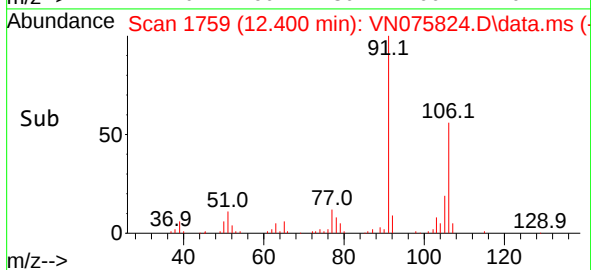
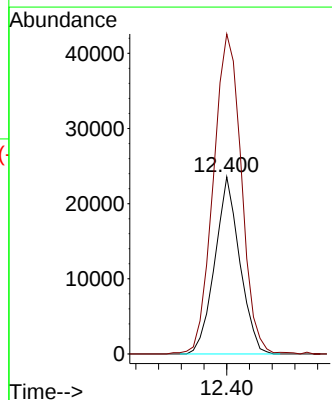
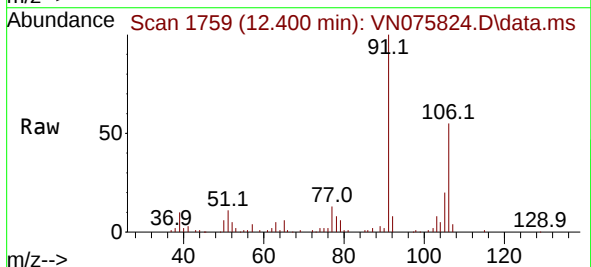
Manual Integrations
APPROVED

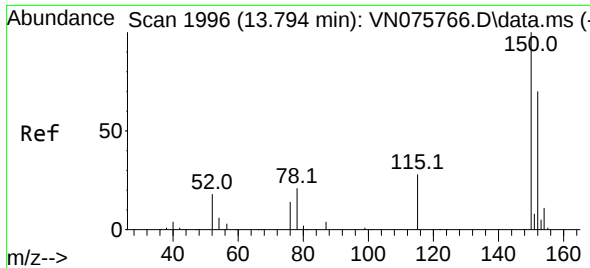
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#69
o-Xylene
Concen: 5.265 ug/l
RT: 12.400 min Scan# 1759
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

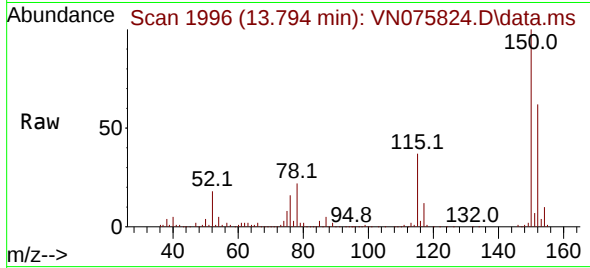
Tgt Ion:106 Resp: 35894
Ion Ratio Lower Upper
106 100
91 203.5 103.8 311.6





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

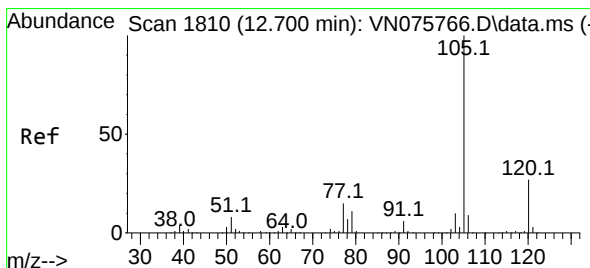
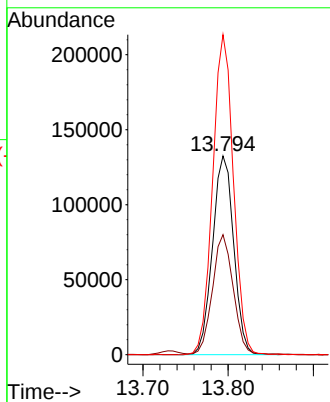
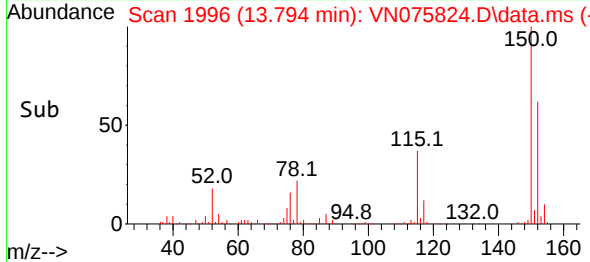
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



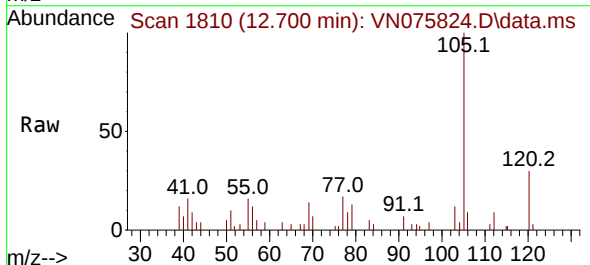
Tgt Ion:152 Resp: 22818
Ion Ratio Lower Upper
152 100
115 59.9 29.1 87.4
150 158.0 0.0 347.0

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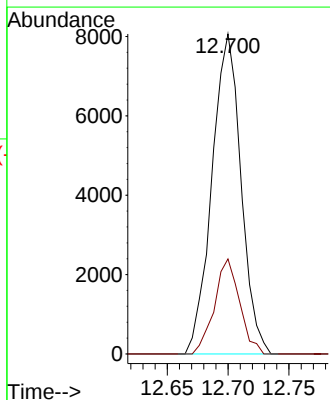
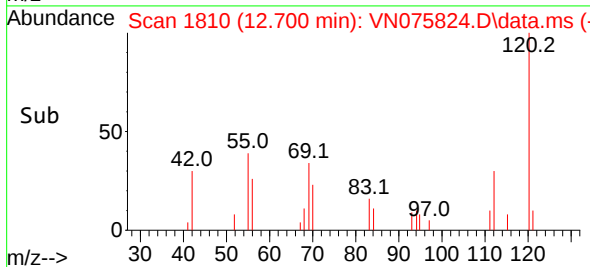
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022

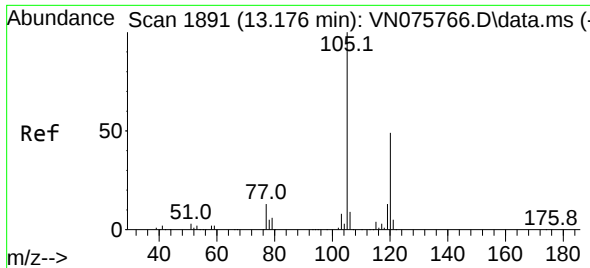


#73
Isopropylbenzene
Concen: 0.813 ug/l
RT: 12.700 min Scan# 1810
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47



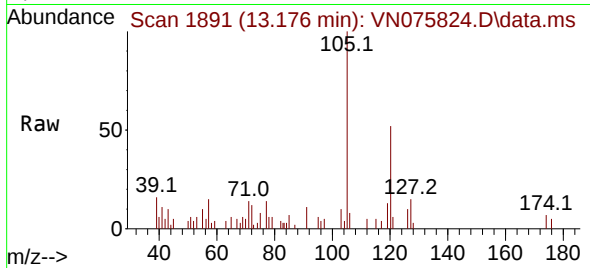
Tgt Ion:105 Resp: 13400
Ion Ratio Lower Upper
105 100
120 25.7 13.4 40.2





#80
1,3,5-Trimethylbenzene
Concen: 0.851 ug/l
RT: 13.176 min Scan# 1891
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

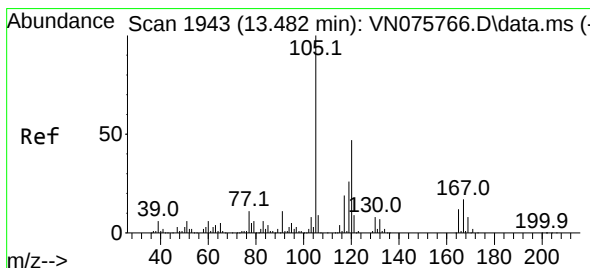
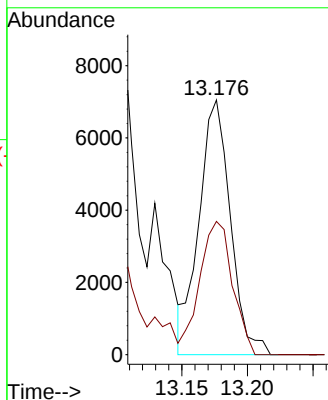
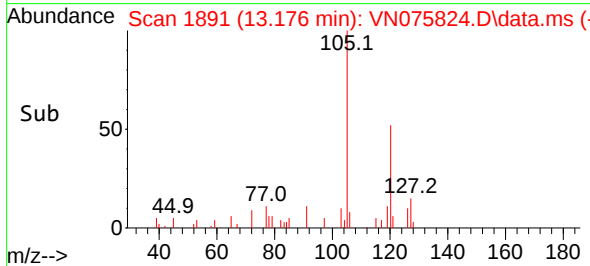
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



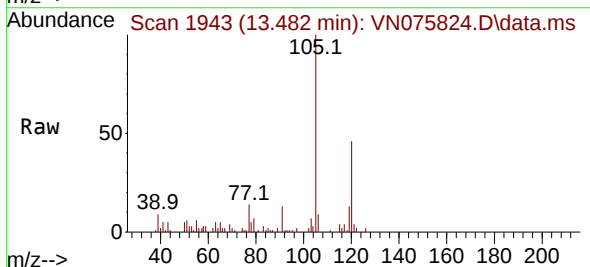
Tgt Ion:105 Resp: 1175
Ion Ratio Lower Upper
105 100
120 54.8 24.7 74.1

Manual Integrations
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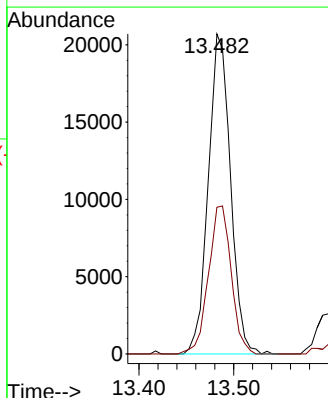
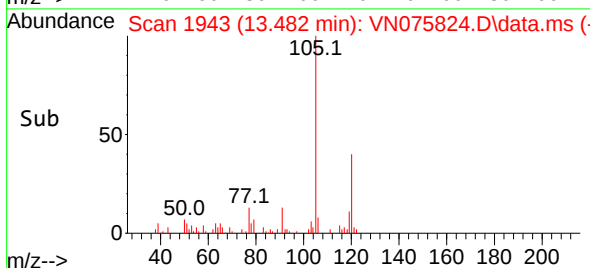
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022

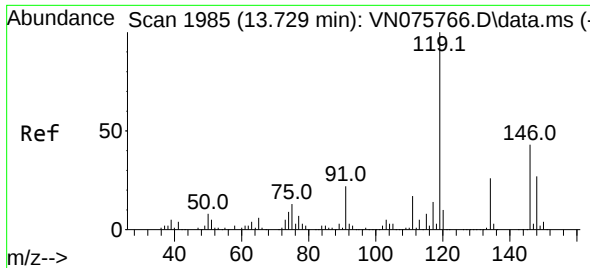


#84
1,2,4-Trimethylbenzene
Concen: 2.464 ug/l
RT: 13.482 min Scan# 1943
Delta R.T. 0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47



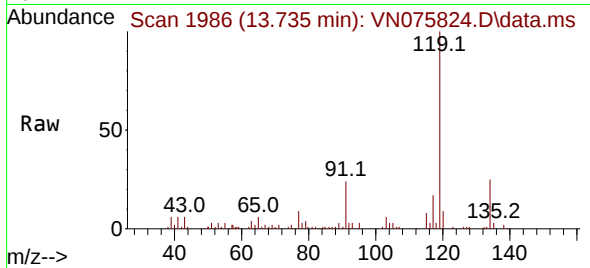
Tgt Ion:105 Resp: 33734
Ion Ratio Lower Upper
105 100
120 47.4 23.3 69.8





#86
p-Isopropyltoluene
Concen: 3.681 ug/l
RT: 13.735 min Scan# 1985
Delta R.T. 0.006 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

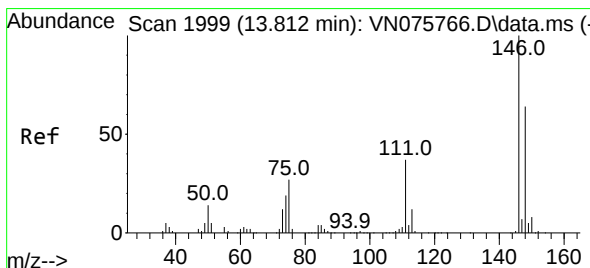
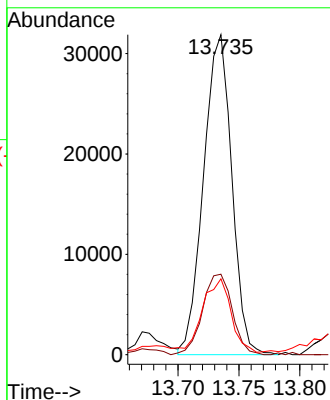
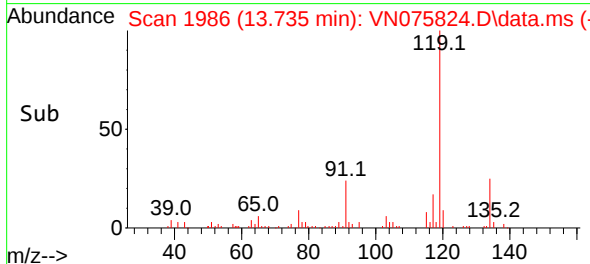
Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



Tgt Ion:119 Resp: 5144
Ion Ratio Lower Upper
119 100
134 26.4 13.0 39.0
91 22.6 11.2 33.6

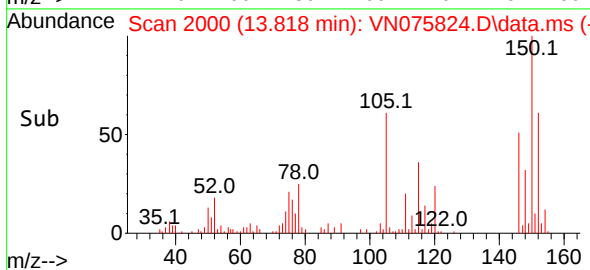
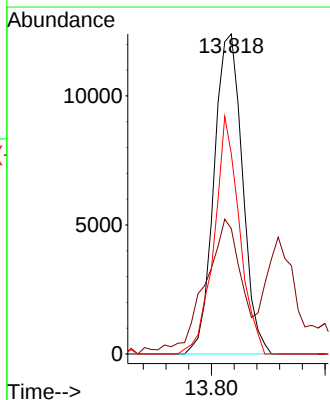
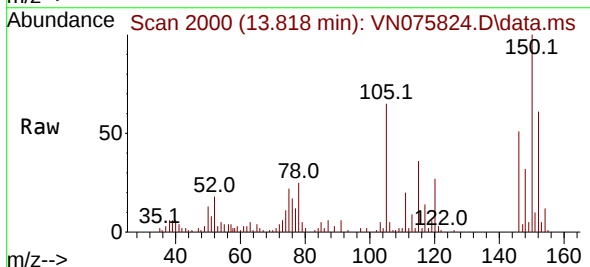
Manual Integrations
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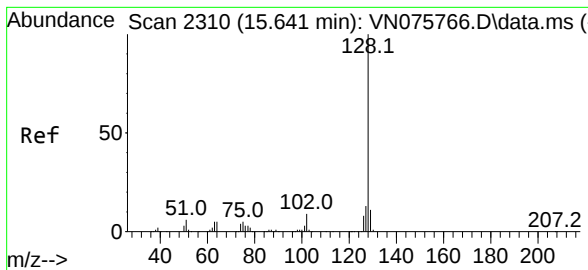
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#88
1,4-Dichlorobenzene
Concen: 2.734 ug/l
RT: 13.818 min Scan# 2000
Delta R.T. 0.006 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

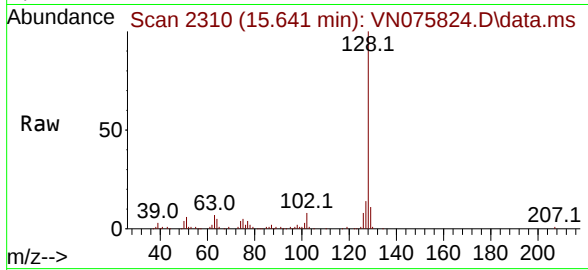
Tgt Ion:146 Resp: 21528
Ion Ratio Lower Upper
146 100
111 54.6 19.1 57.1
148 66.2 32.0 96.2





#95
Naphthalene
Concen: 10.903 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN075824.D
Acq: 15 Dec 2022 17:47

Instrument :
MSVOA_N
ClientSampleId :
221214029-02-VOA



Tgt Ion:128 Resp: 113298
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 10.9 8.7 13.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022

