

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121522\
 Data File : VN075815.D
 Acq On : 15 Dec 2022 14:11
 Operator : JC\MD
 Sample : N5990-12DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP120822DL

Manual Integrations
 APPROVED

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

Quant Time: Dec 16 03:09:00 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

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	374622	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	587866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	513772	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	234261	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	187983	46.125	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.240%		
35) Dibromofluoromethane	8.177	113	173130	47.556	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.120%		
50) Toluene-d8	10.571	98	672888	49.435	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.860%		
62) 4-Bromofluorobenzene	12.853	95	226495	50.239	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	100.480%		
Target Compounds					Qvalue	
31) Cyclohexane	8.253	56	11079m	1.898	ug/l	
39) Methylcyclohexane	9.600	83	15681	2.688	ug/l	95
40) Benzene	8.612	78	38263	2.564	ug/l	94
52) Toluene	10.629	92	5858	0.603	ug/l	98
67) Ethyl Benzene	11.965	91	1853534	104.146	ug/l	100
68) m/p-Xylenes	12.076	106	653882	92.826	ug/l	100
69) o-Xylene	12.400	106	317643	45.566	ug/l	98
73) Isopropylbenzene	12.700	105	104115	6.150	ug/l	100
78) n-propylbenzene	13.041	91	321785	17.234	ug/l	100
80) 1,3,5-Trimethylbenzene	13.176	105	263516	18.599	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	1359051	96.690	ug/l	100
85) sec-Butylbenzene	13.618	105	14200m	0.824	ug/l	
86) p-Isopropyltoluene	13.729	119	7269	0.507	ug/l #	76
89) n-Butylbenzene	14.059	91	12109	1.042	ug/l #	66
95) Naphthalene	15.641	128	450296	35.959	ug/l	100

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

Manual Integrations

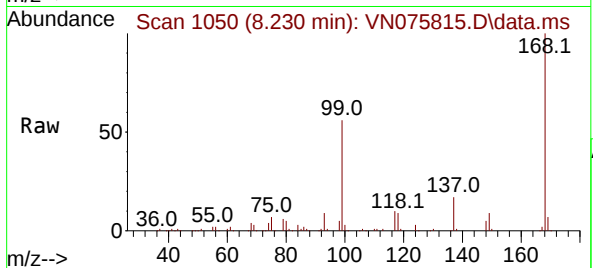
Quant Time: Dec 16 03:09:00 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 14 13:03:41 2022
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

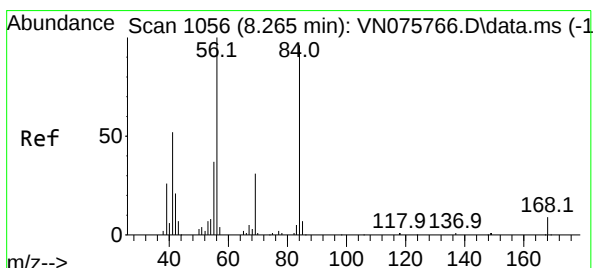
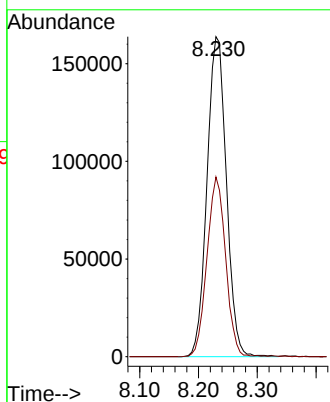
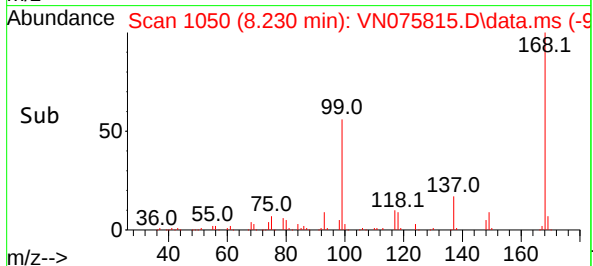
Instrument :
MSVOA_N
ClientSampleId :
DUP120822DL



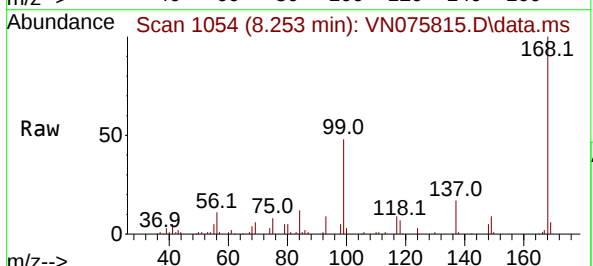
Tgt Ion:168 Resp: 37462
Ion Ratio Lower Upper
168 100
99 56.2 44.2 66.4

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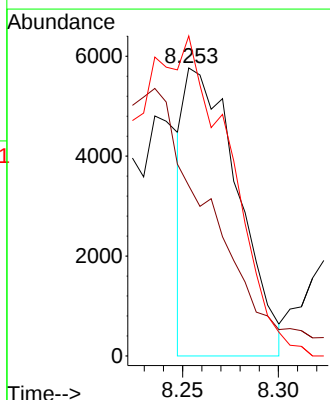
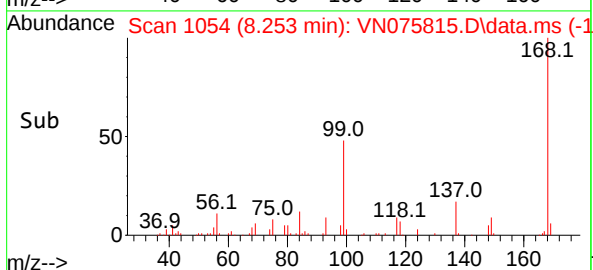
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022

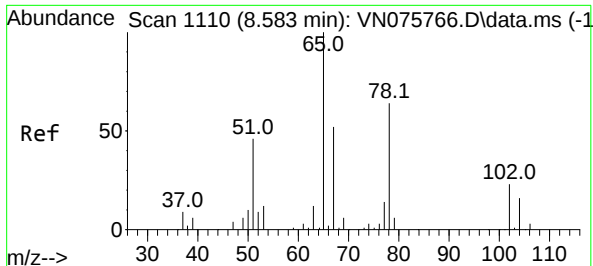


#31
Cyclohexane
Concen: 1.898 ug/l m
RT: 8.253 min Scan# 1054
Delta R.T. -0.012 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11



Tgt Ion: 56 Resp: 11079
Ion Ratio Lower Upper
56 100
69 59.1 24.7 37.1#
84 111.1 76.5 114.7





#33

1,2-Dichloroethane-d4

Concen: 46.125 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN075815.D

Acq: 15 Dec 2022 14:11

Instrument :

MSVOA_N

ClientSampleId :

DUP120822DL

Tgt Ion: 65 Resp: 18798

Ion Ratio Lower Upper

65 100

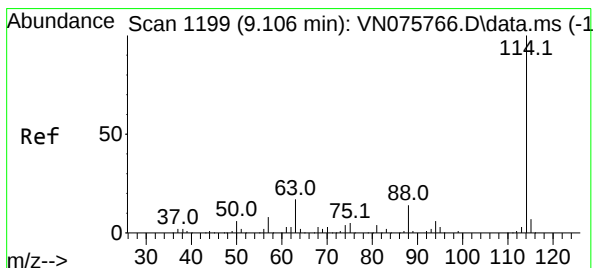
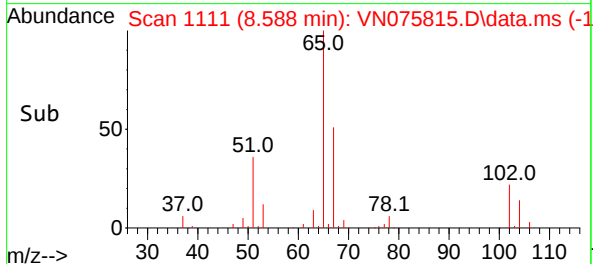
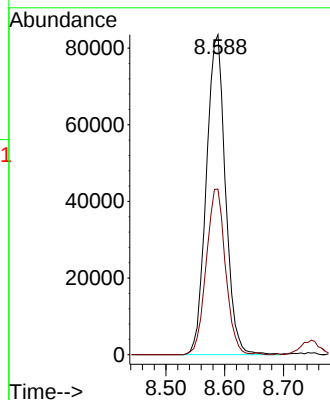
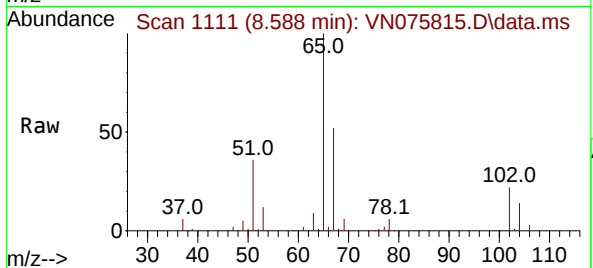
67 52.3 0.0 103.4

Manual Integrations

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Reviewed By :John Carlone 12/16/2022

Supervised By :Mahesh Dadoda 12/16/2022



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075815.D

Acq: 15 Dec 2022 14:11

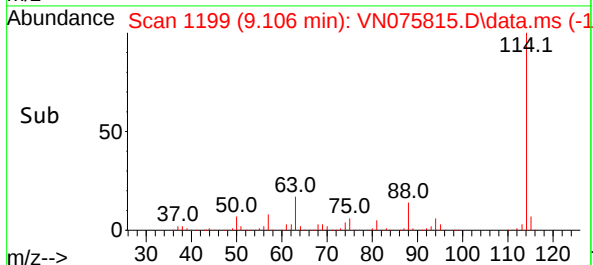
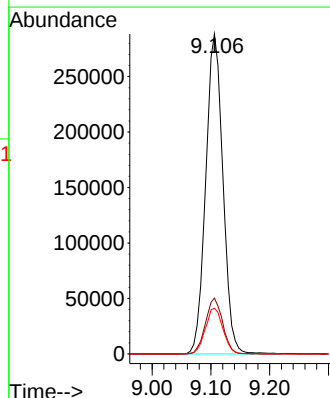
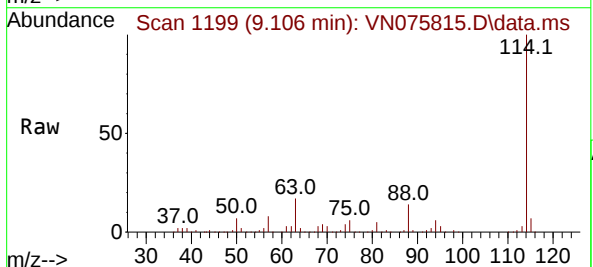
Tgt Ion:114 Resp: 587866

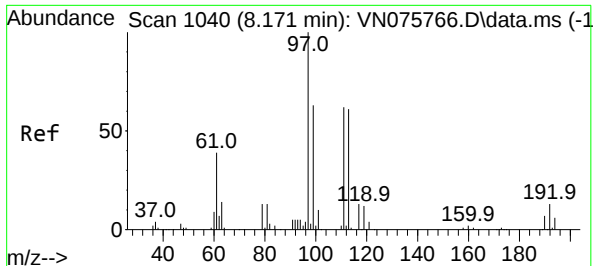
Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.4

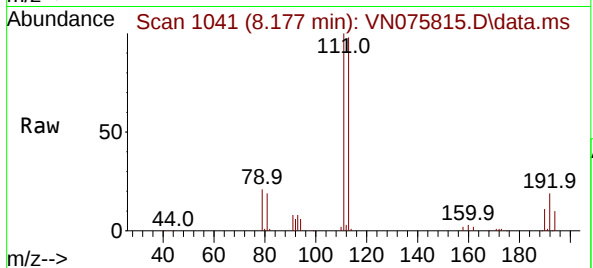
88 14.3 0.0 28.8





#35
Dibromofluoromethane
Concen: 47.556 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

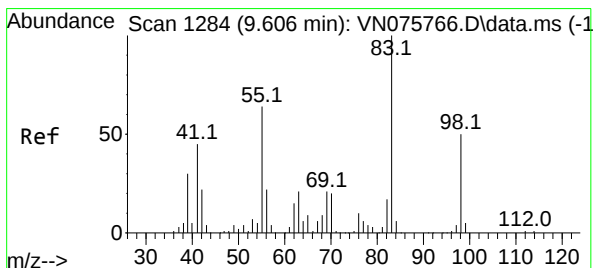
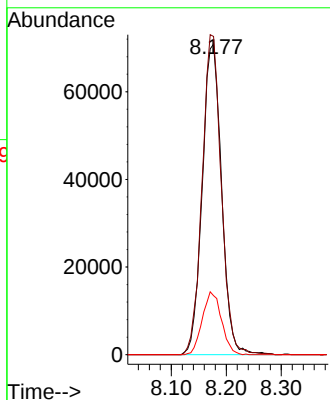
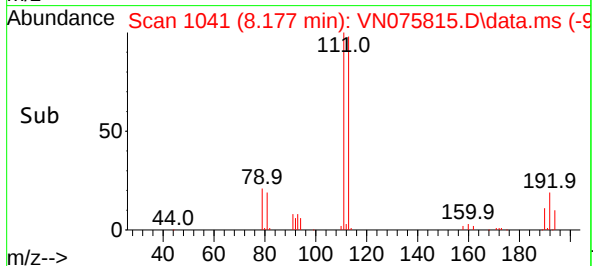
Instrument :
MSVOA_N
ClientSampleId :
DUP120822DL



Tgt Ion: 113 Resp: 173130
Ion Ratio Lower Upper
113 100
111 101.8 83.4 125.2
192 20.1 16.1 24.1

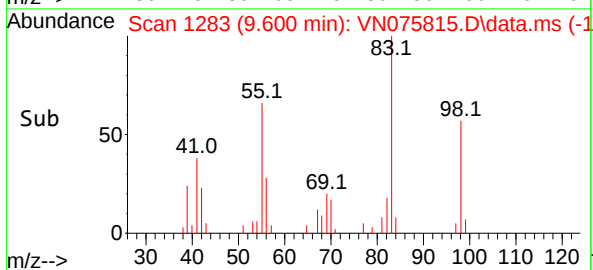
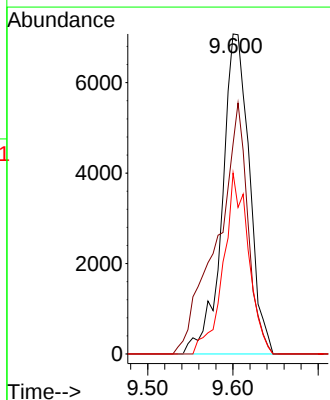
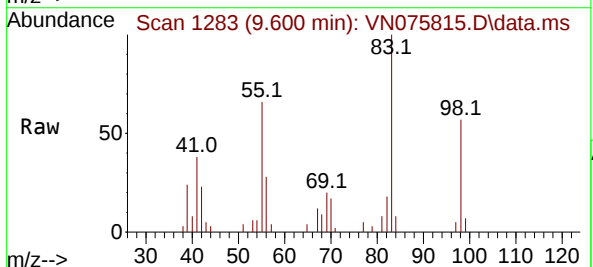
Manual Integrations
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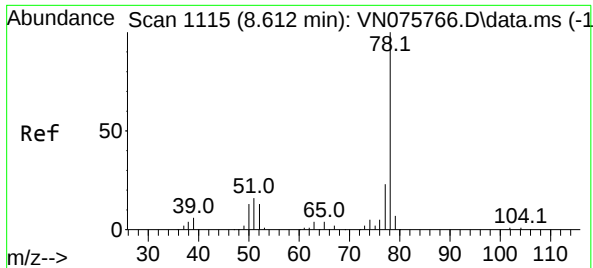
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#39
Methylcyclohexane
Concen: 2.688 ug/l
RT: 9.600 min Scan# 1283
Delta R.T. -0.006 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

Tgt Ion: 83 Resp: 15681
Ion Ratio Lower Upper
83 100
55 65.6 51.4 77.0
98 56.6 39.8 59.8





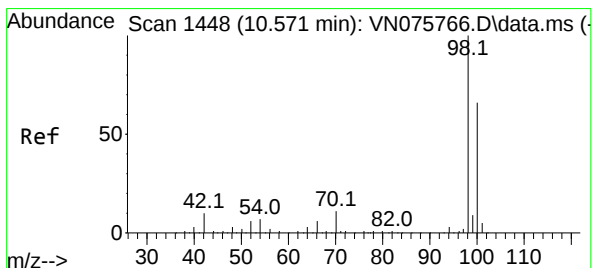
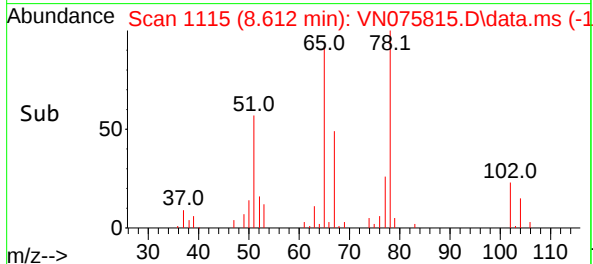
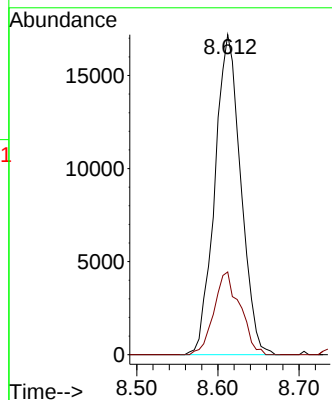
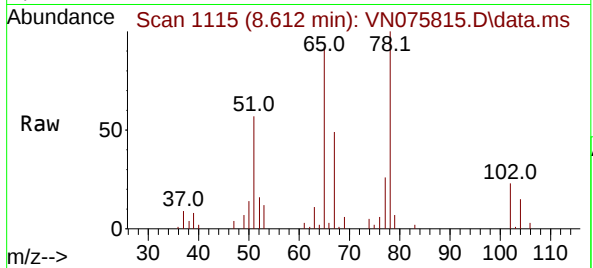
#40
Benzene
Concen: 2.564 ug/l
RT: 8.612 min Scan# 1115
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

Instrument :
MSVOA_N
ClientSampleId :
DUP120822DL

Tgt Ion: 78 Resp: 3826
Ion Ratio Lower Upper
78 100
77 25.8 18.5 27.7

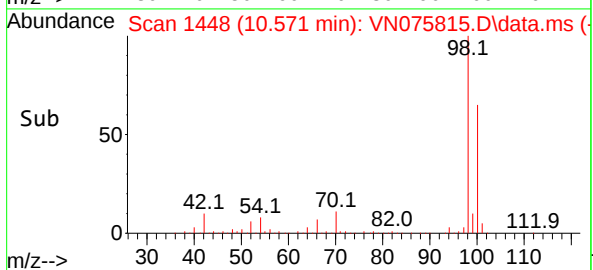
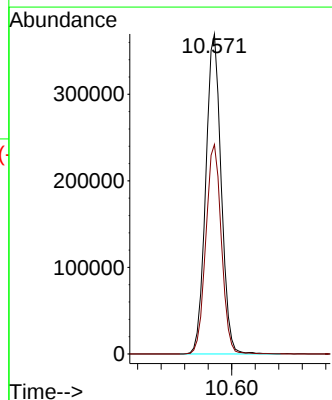
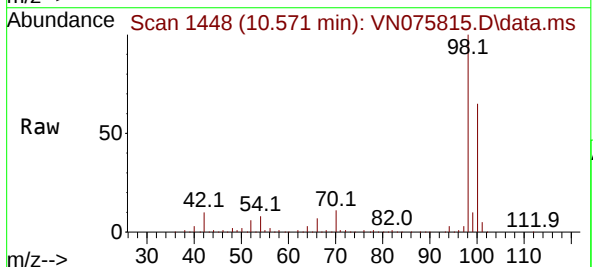
Manual Integrations
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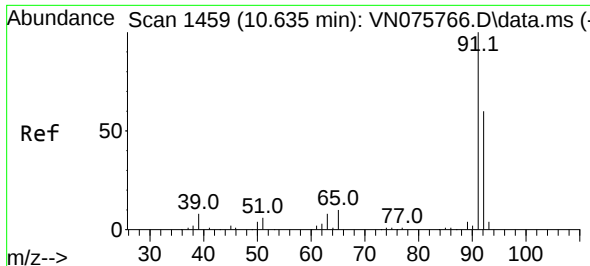
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#50
Toluene-d8
Concen: 49.435 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

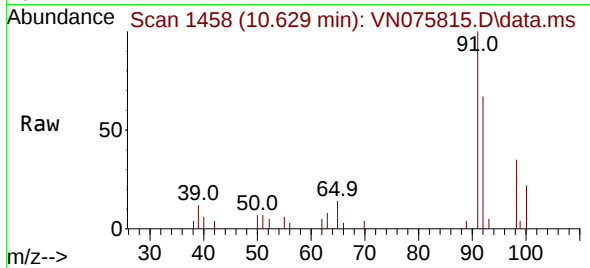
Tgt Ion: 98 Resp: 672888
Ion Ratio Lower Upper
98 100
100 66.1 52.1 78.1





#52
Toluene
Concen: 0.603 ug/l
RT: 10.629 min Scan# 1458
Delta R.T. -0.006 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

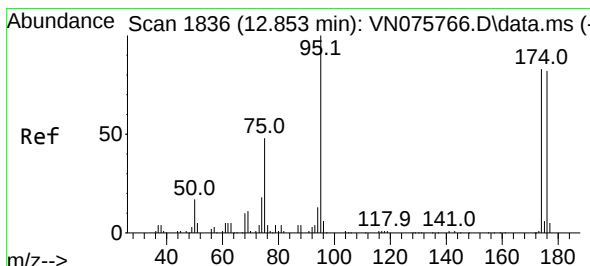
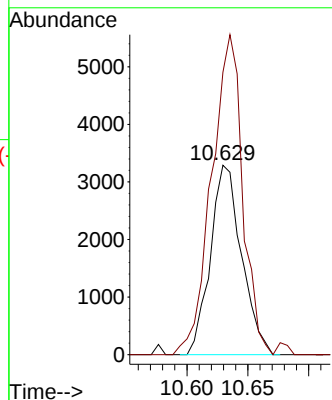
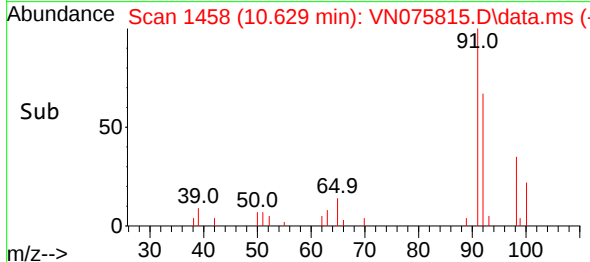
Instrument :
MSVOA_N
ClientSampleId :
DUP120822DL



Tgt Ion: 92 Resp: 585
Ion Ratio Lower Upper
92 100
91 168.6 137.3 205.9

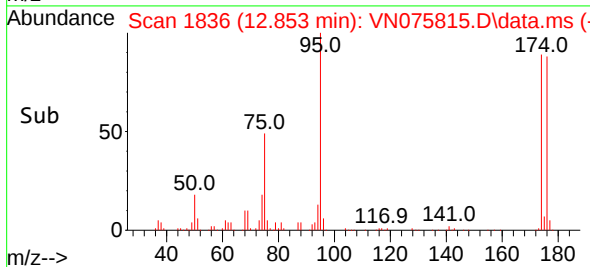
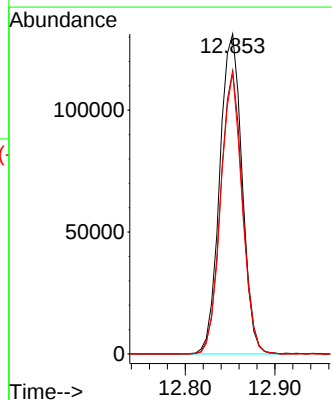
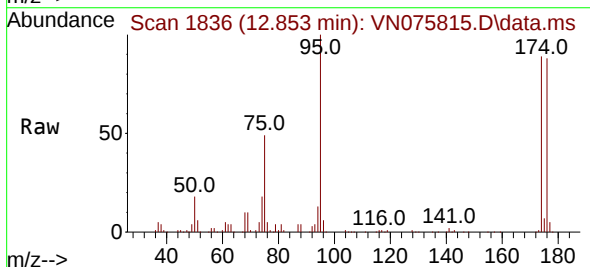
Manual Integrations
APPROVED

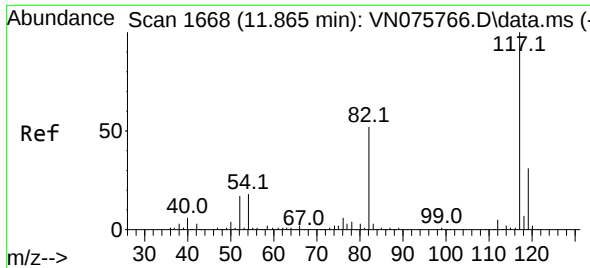
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#62
4-Bromofluorobenzene
Concen: 50.239 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

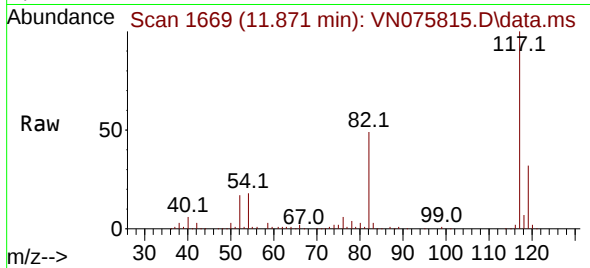
Tgt Ion: 95 Resp: 226495
Ion Ratio Lower Upper
95 100
174 86.7 0.0 171.6
176 83.8 0.0 169.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

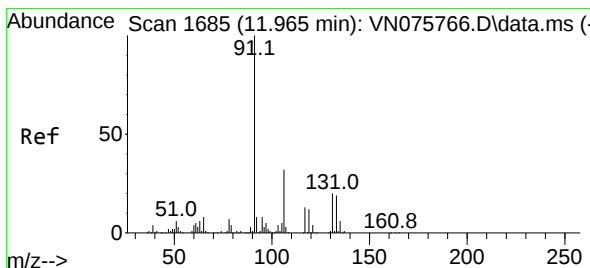
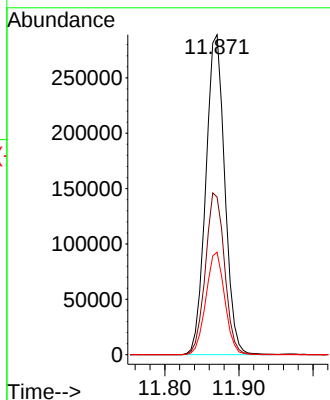
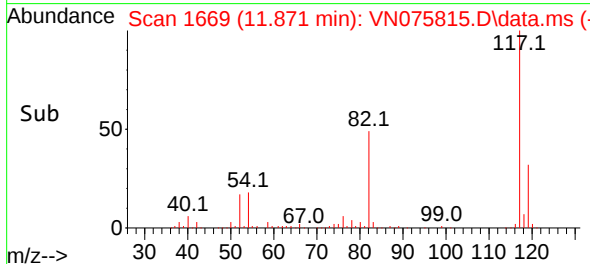
Instrument :
MSVOA_N
ClientSampleId :
DUP120822DL



Tgt Ion:117 Resp: 513772
Ion Ratio Lower Upper
117 100
82 49.2 41.3 61.9
119 32.1 24.6 37.0

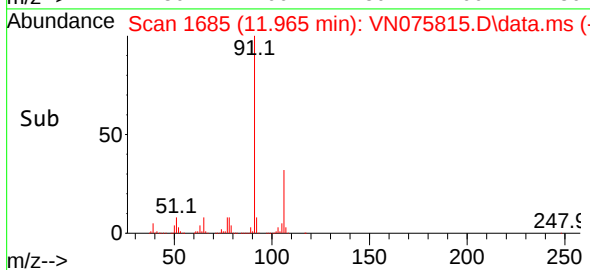
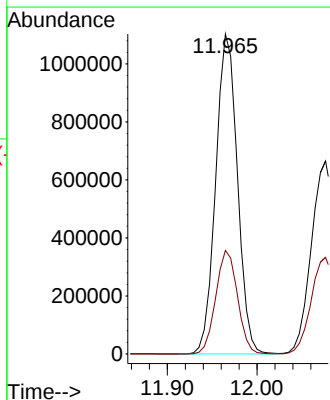
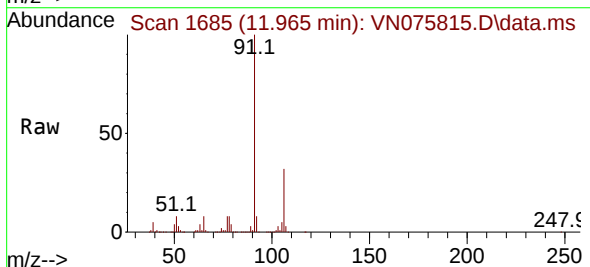
Manual Integrations
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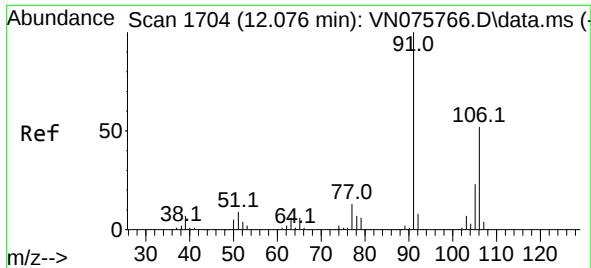
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#67
Ethyl Benzene
Concen: 104.146 ug/l
RT: 11.965 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

Tgt Ion: 91 Resp: 1853534
Ion Ratio Lower Upper
91 100
106 32.4 25.7 38.5





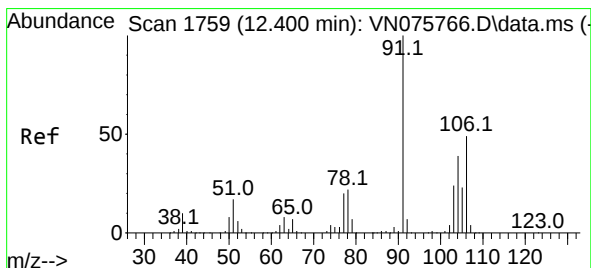
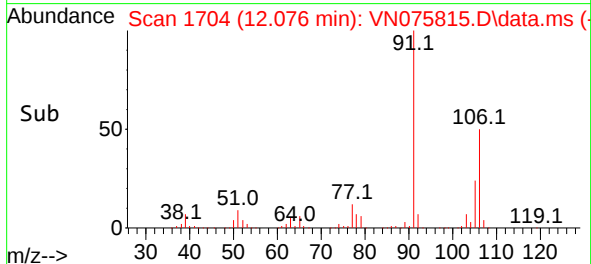
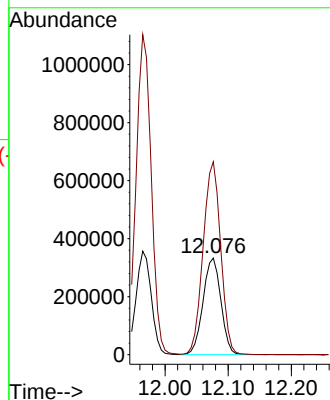
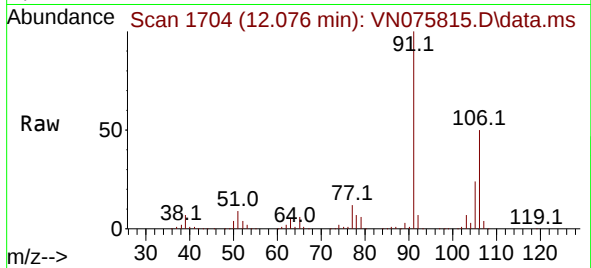
#68
m/p-Xylenes
Concen: 92.826 ug/l
RT: 12.076 min Scan# 1704
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

Instrument :
MSVOA_N
ClientSampleId :
DUP120822DL

Tgt Ion:106 Resp: 65388
Ion Ratio Lower Upper
106 100
91 196.5 156.6 235.0

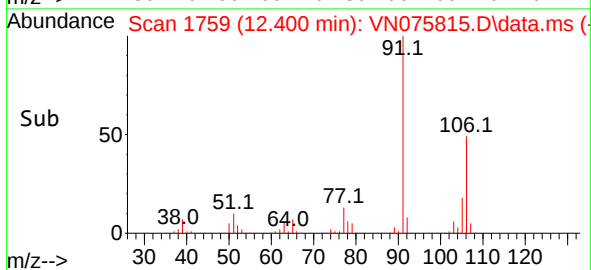
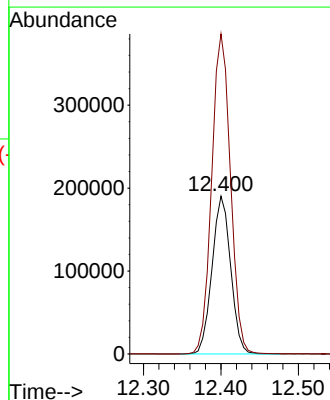
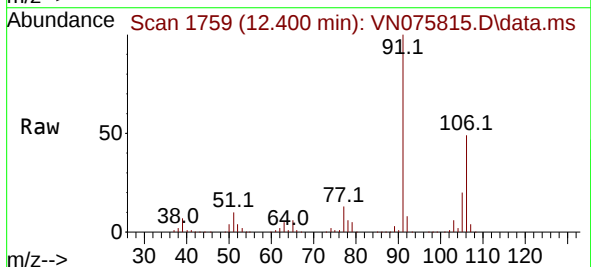
Manual Integrations
APPROVED

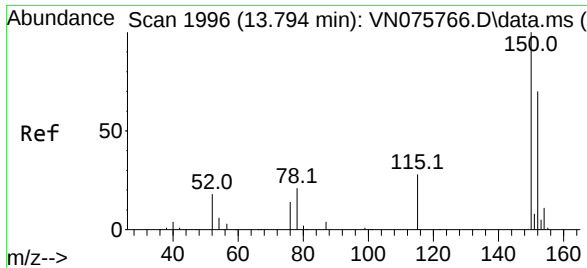
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022



#69
o-Xylene
Concen: 45.566 ug/l
RT: 12.400 min Scan# 1759
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

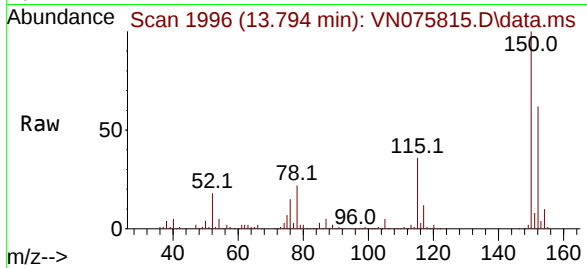
Tgt Ion:106 Resp: 317643
Ion Ratio Lower Upper
106 100
91 205.0 103.8 311.6





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

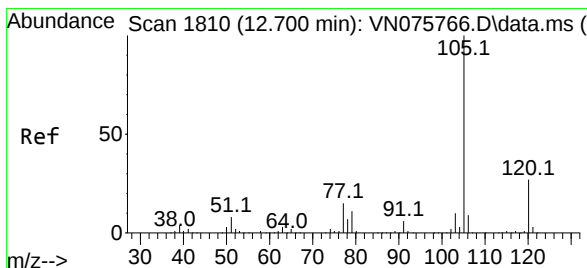
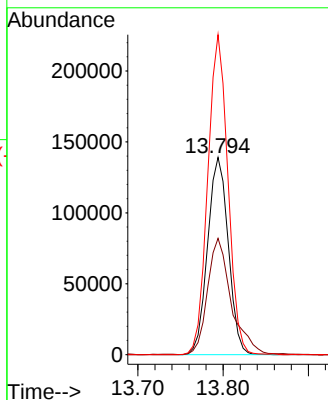
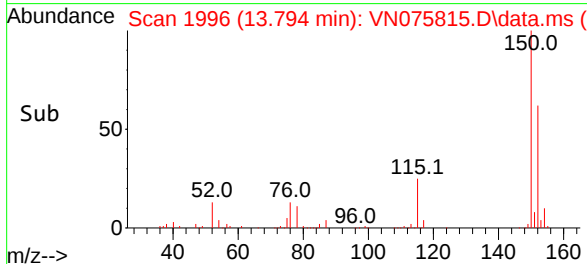
Instrument :
MSVOA_N
ClientSampleId :
DUP120822DL



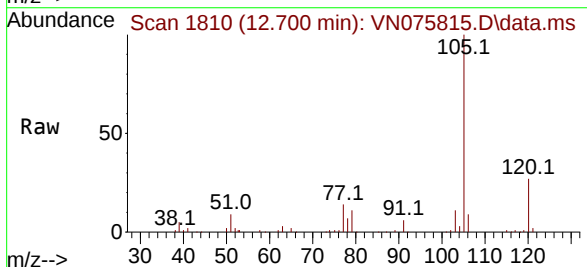
Tgt Ion:152 Resp: 23426
Ion Ratio Lower Upper
152 100
115 68.3 29.1 87.4
150 158.0 0.0 347.0

Manual Integrations
APPROVED

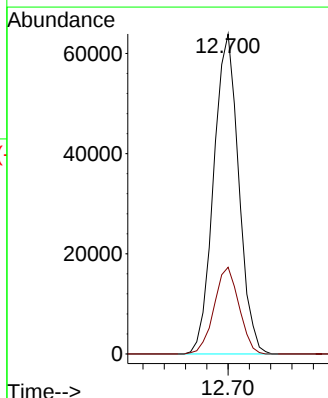
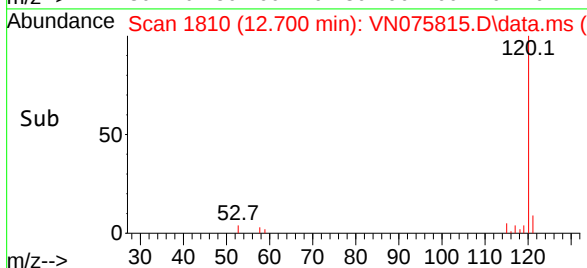
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022

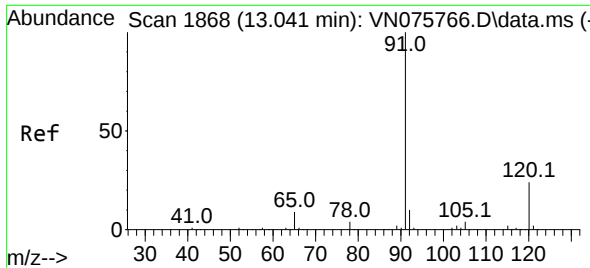


#73
Isopropylbenzene
Concen: 6.150 ug/l
RT: 12.700 min Scan# 1810
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11



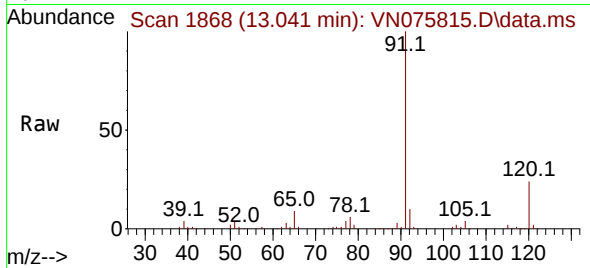
Tgt Ion:105 Resp: 104115
Ion Ratio Lower Upper
105 100
120 27.0 13.4 40.2





#78
n-propylbenzene
Concen: 17.234 ug/l
RT: 13.041 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

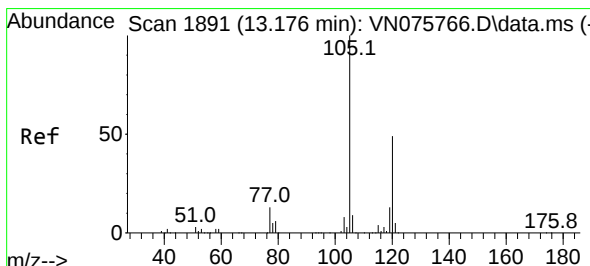
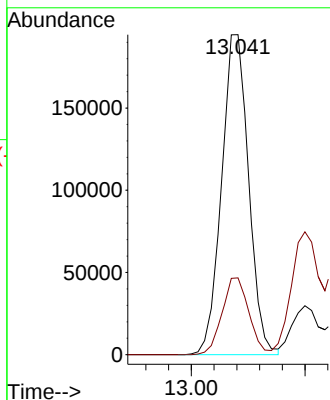
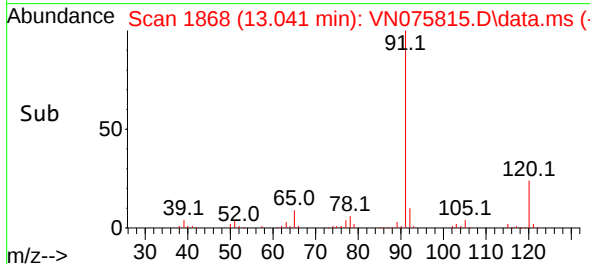
Instrument :
MSVOA_N
ClientSampleId :
DUP120822DL



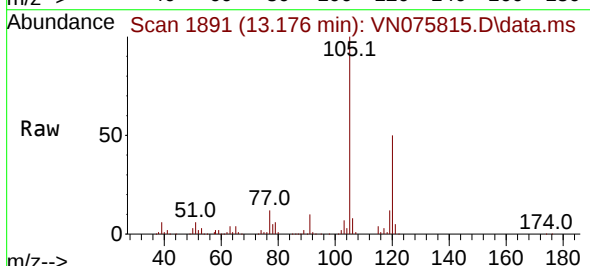
Tgt Ion: 91 Resp: 32178
Ion Ratio Lower Upper
91 100
120 23.9 12.0 36.1

Manual Integrations
APPROVED

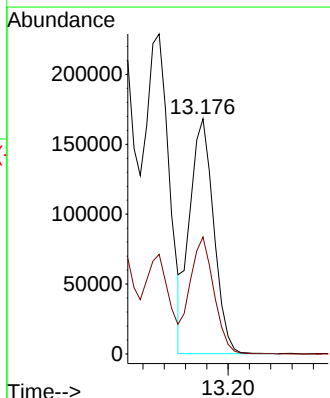
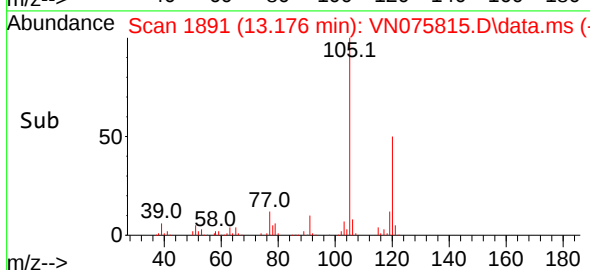
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022

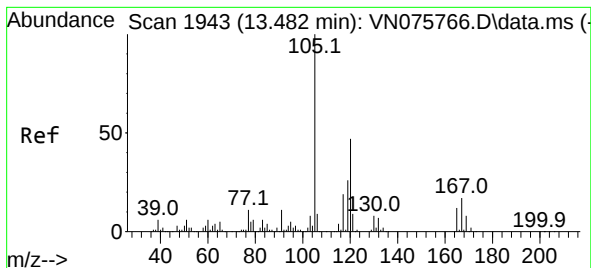


#80
1,3,5-Trimethylbenzene
Concen: 18.599 ug/l
RT: 13.176 min Scan# 1891
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11



Tgt Ion:105 Resp: 263516
Ion Ratio Lower Upper
105 100
120 49.5 24.7 74.1





#84

1,2,4-Trimethylbenzene

Concen: 96.690 ug/l

RT: 13.482 min Scan# 1943

Delta R.T. 0.000 min

Lab File: VN075815.D

Acq: 15 Dec 2022 14:11

Instrument :

MSVOA_N

ClientSampleId :

DUP120822DL

Tgt Ion:105 Resp: 135905

Ion Ratio Lower Upper

105 100

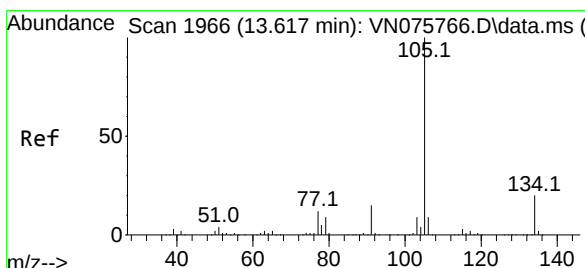
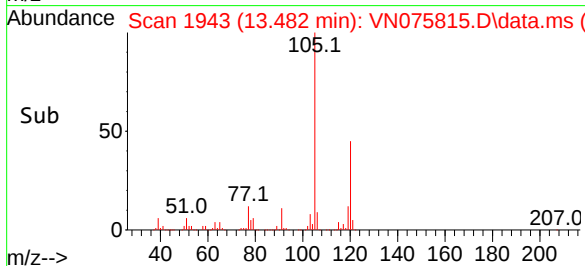
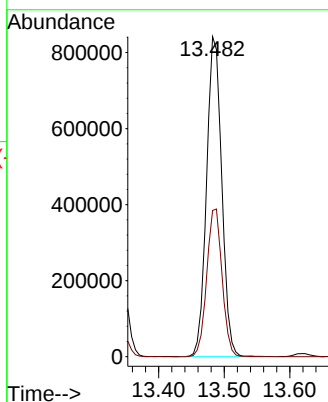
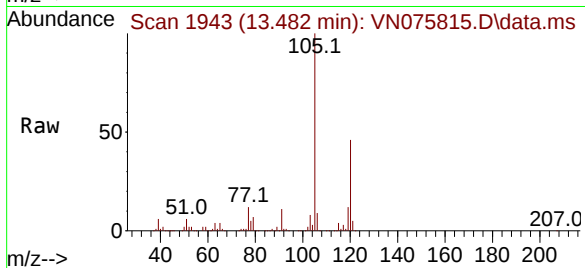
120 46.7 23.3 69.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2022

Supervised By :Mahesh Dadoda 12/16/2022



#85

sec-Butylbenzene

Concen: 0.824 ug/l m

RT: 13.618 min Scan# 1966

Delta R.T. 0.000 min

Lab File: VN075815.D

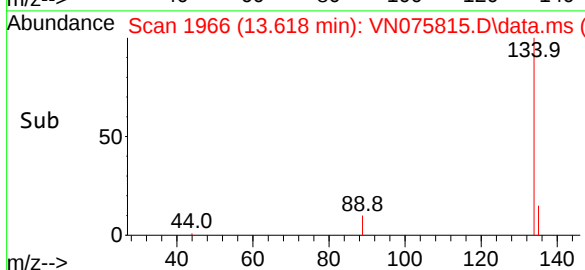
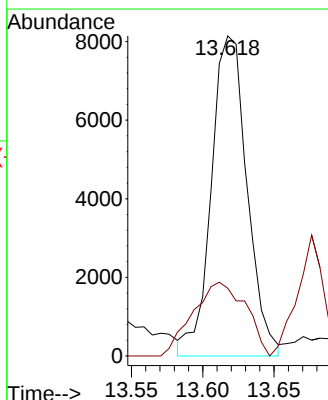
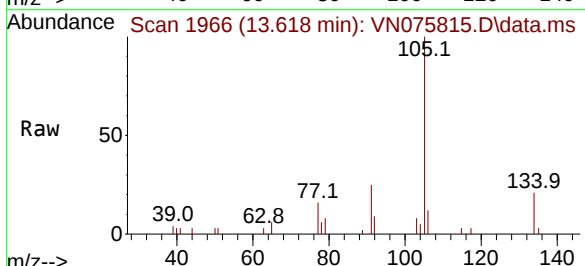
Acq: 15 Dec 2022 14:11

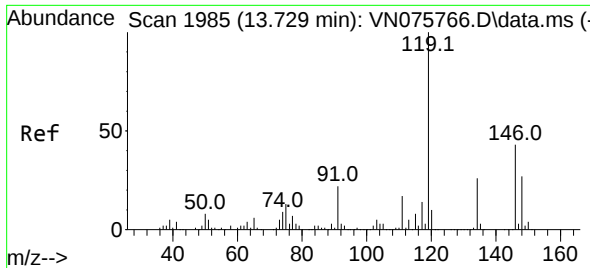
Tgt Ion:105 Resp: 14200

Ion Ratio Lower Upper

105 100

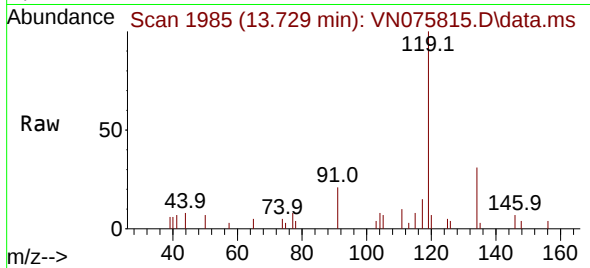
134 0.0 10.1 30.1#





#86
p-Isopropyltoluene
Concen: 0.507 ug/l
RT: 13.729 min Scan# 1985
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11

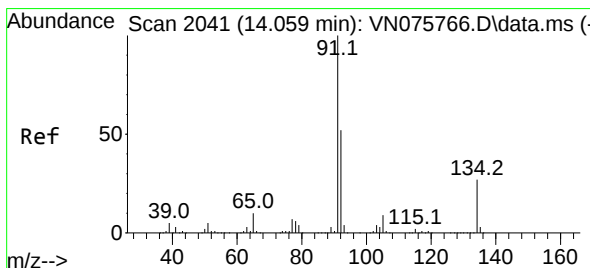
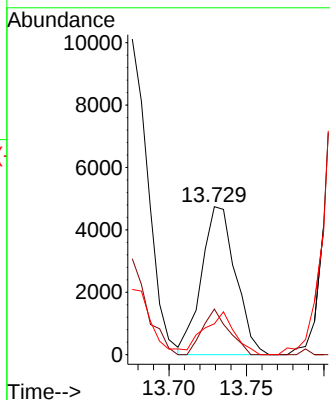
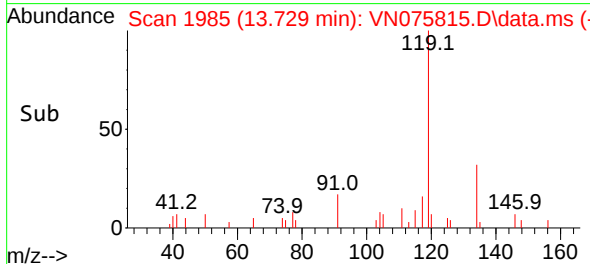
Instrument :
MSVOA_N
ClientSampleId :
DUP120822DL



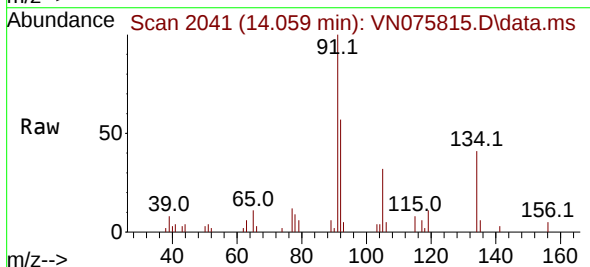
Tgt Ion: 119 Resp: 7269
Ion Ratio Lower Upper
119 100
134 23.7 13.0 39.0
91 0.0 11.2 33.6

Manual Integrations
APPROVED

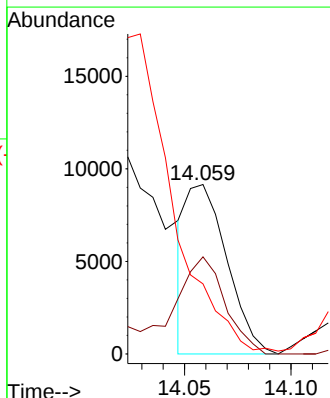
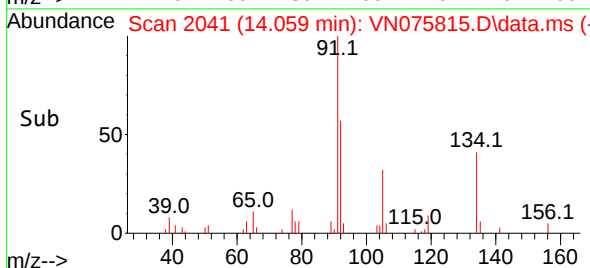
Reviewed By :John Carlone 12/16/2022
Supervised By :Mahesh Dadoda 12/16/2022

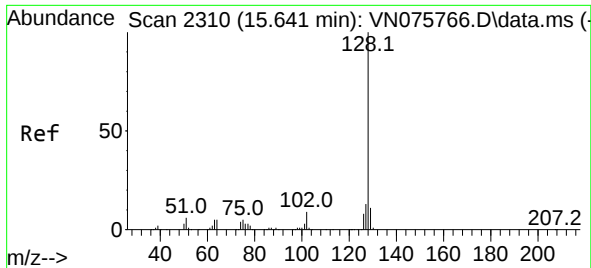


#89
n-Butylbenzene
Concen: 1.042 ug/l
RT: 14.059 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VN075815.D
Acq: 15 Dec 2022 14:11



Tgt Ion: 91 Resp: 12109
Ion Ratio Lower Upper
91 100
92 70.0 26.4 79.2
134 0.0 13.4 40.2





#95

Naphthalene

Concen: 35.959 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN075815.D

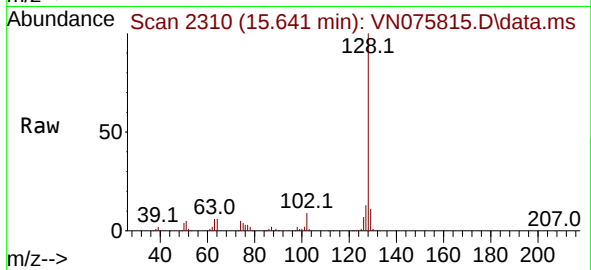
Acq: 15 Dec 2022 14:11

Instrument :

MSVOA_N

ClientSampleId :

DUP120822DL



Tgt Ion:128 Resp: 450290

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 11.2 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/16/2022

Supervised By :Mahesh Dadoda 12/16/2022

