

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041124\
 Data File : VN081702.D
 Acq On : 11 Apr 2024 17:26
 Operator : JC\MD
 Sample : P2075-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 240410102-02-VOA

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/12/2024
 Supervised By : Mahesh Dadoda 04/12/2024

Quant Time: Apr 12 06:03:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	27497m	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.100	114	181447	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	230350	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	97634	28.903	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.333%		
60) 4-Bromofluorobenzene	12.853	95	124722	27.540	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.800%		
63) Toluene-d8	10.565	98	262771	28.439	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	94.800%		
Target Compounds						
					Qvalue	
15) Acetone	4.418	58	432693	1215.569	ug/l	91
16) Carbon Disulfide	4.712	76	38575	3.831	ug/l	96
23) tert-Butyl Alcohol	5.518	59	4970834	8651.988	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	21618	1.952	ug/l #	65
30) 2-Butanone	7.482	43	2292031	1258.111	ug/l	99
34) Benzene	8.606	78	62534	4.069	ug/l #	86
45) 1,4-Dioxane	9.700	88	6052	81.493	ug/l #	66
58) 4-Methyl-2-Pentanone	10.447	43	33301	8.406	ug/l #	76
62) Toluene	10.629	91	93740	5.594	ug/l	98
64) Chlorobenzene	11.894	112	24555	2.311	ug/l	97
66) Ethyl Benzene	11.964	91	80532	4.520	ug/l	99
67) m/p-Xylenes	12.070	106	55815	7.908	ug/l	99
68) o-Xylene	12.400	106	31585	4.714	ug/l	100
70) Isopropylbenzene	12.700	105	15443	0.893	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	8785	0.599	ug/l	90
80) 1,2,4-Trimethylbenzene	13.488	105	41097	2.809	ug/l	99
82) p-Isopropyltoluene	13.729	119	67968	4.502	ug/l	95
84) 1,4-Dichlorobenzene	13.811	146	24407	3.150	ug/l	95
91) Naphthalene	15.641	128	525653	39.150	ug/l	100

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

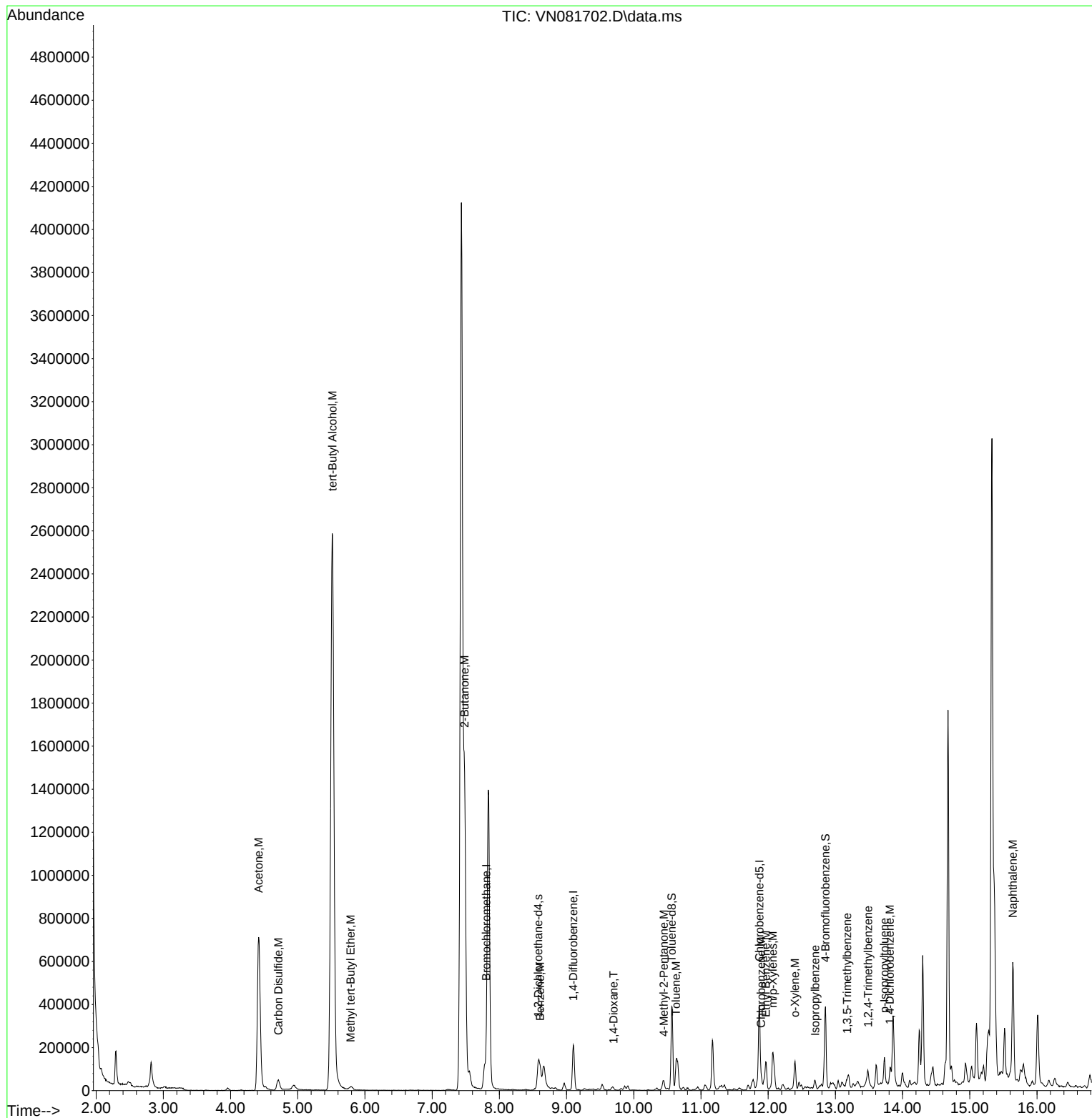
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041124\
Data File : VN081702.D
Acq On : 11 Apr 2024 17:26
Operator : JC\MD
Sample : P2075-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

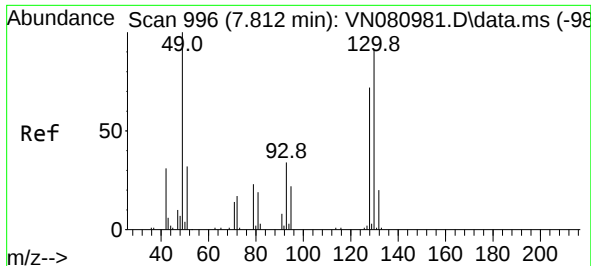
Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA

Quant Time: Apr 12 06:03:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 11 09:25:01 2024
Response via : Initial Calibration

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APPROVED

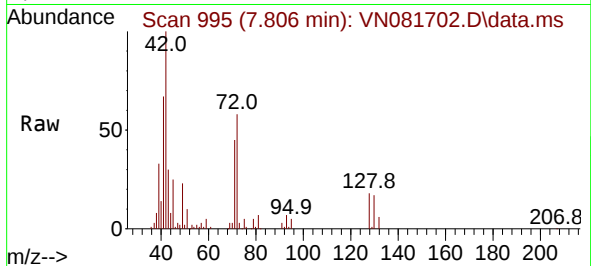
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024





#1
Bromochloromethane
Concen: 30.000 ug/l m
RT: 7.806 min Scan# 91
Delta R.T. -0.018 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

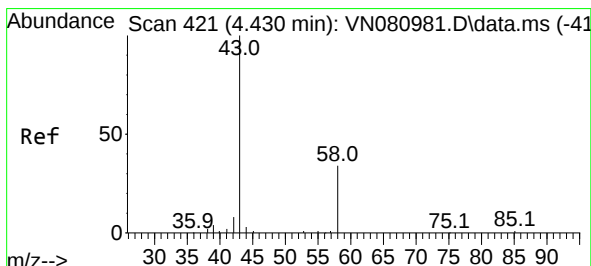
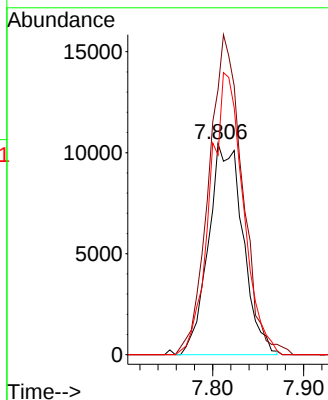
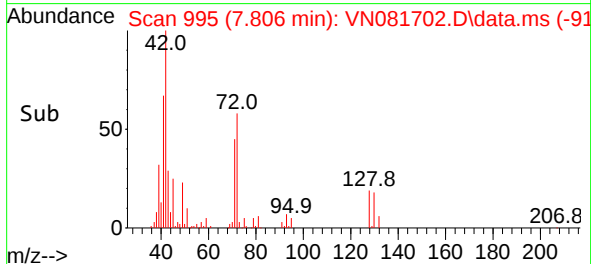
Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA



Tgt Ion:128 Resp: 2749
Ion Ratio Lower Upper
128 100
49 147.5 0.0 403.7
130 128.7 0.0 323.3

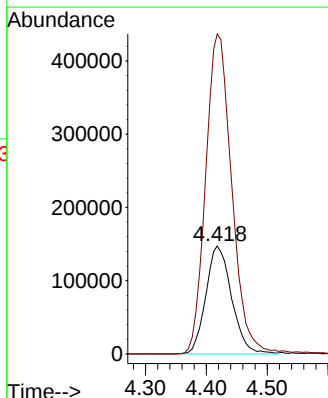
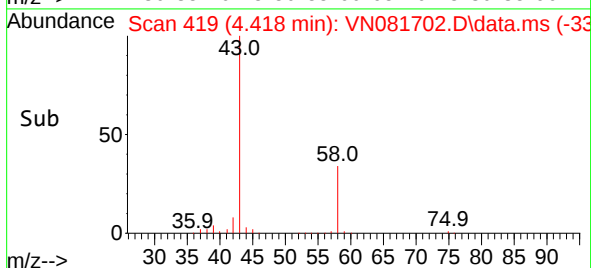
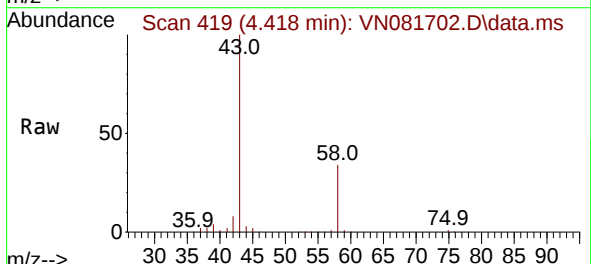
Manual Integrations
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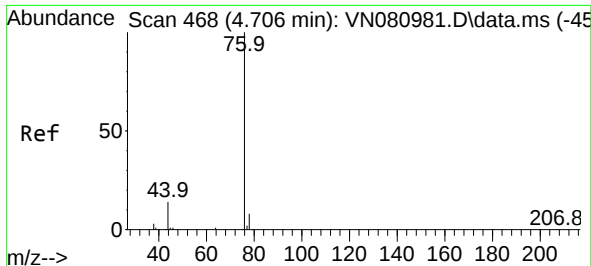
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#15
Acetone
Concen: 1215.569 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

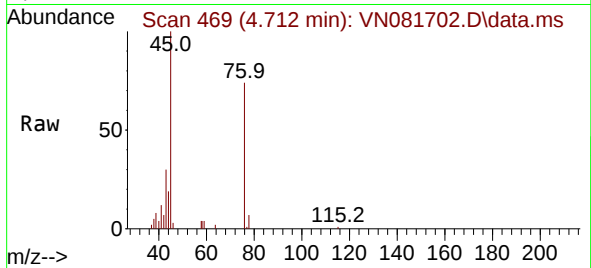
Tgt Ion: 58 Resp: 432693
Ion Ratio Lower Upper
58 100
43 295.8 223.1 334.7





#16
Carbon Disulfide
Concen: 3.831 ug/l
RT: 4.712 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

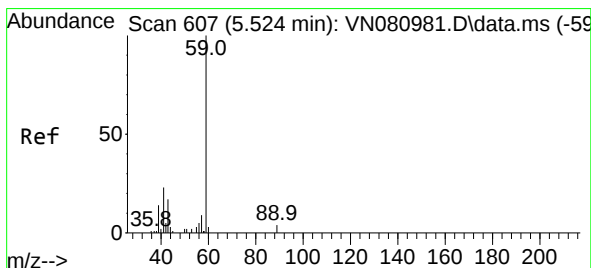
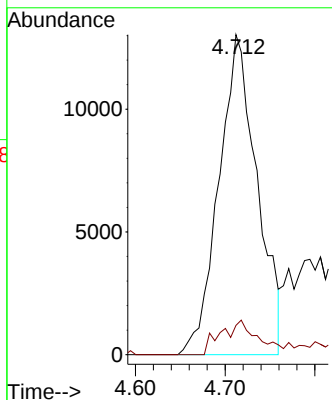
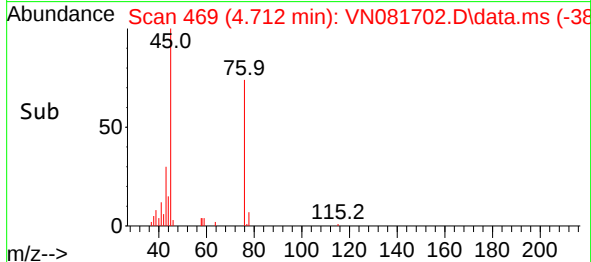
Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA



Tgt Ion: 76 Resp: 3857
Ion Ratio Lower Upper
76 100
78 9.1 6.3 9.5

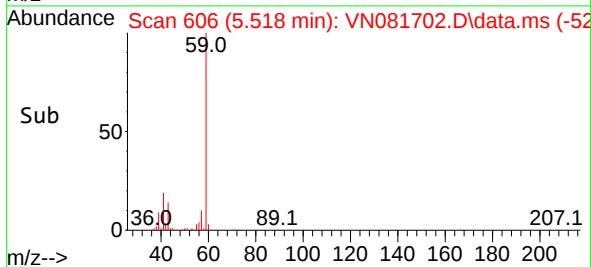
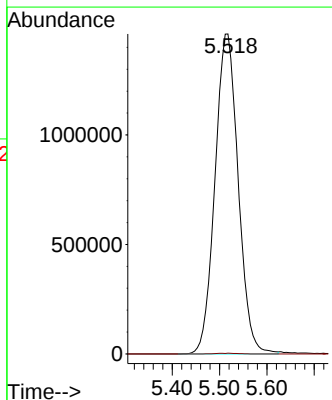
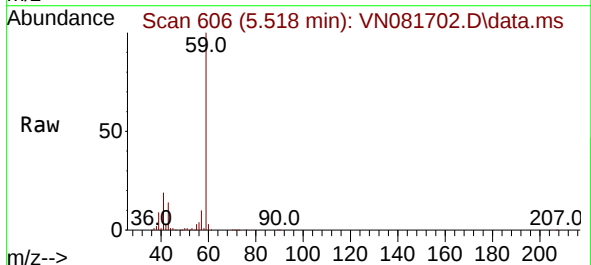
Manual Integrations
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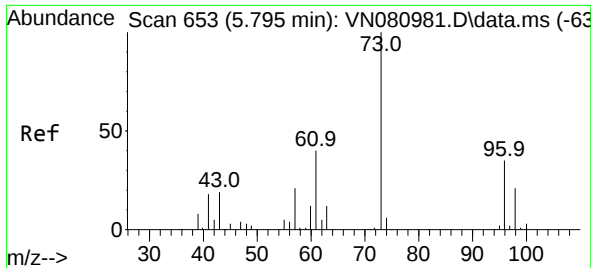
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#23
tert-Butyl Alcohol
Concen: 8651.988 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

Tgt Ion: 59 Resp: 4970834
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#





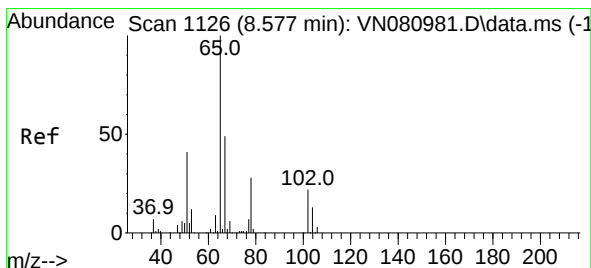
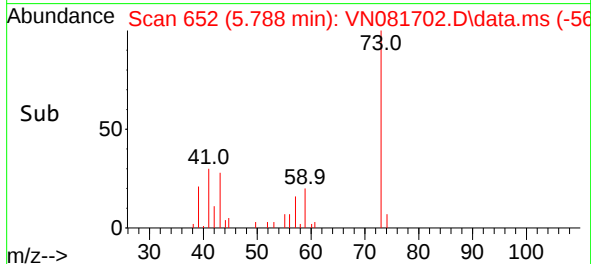
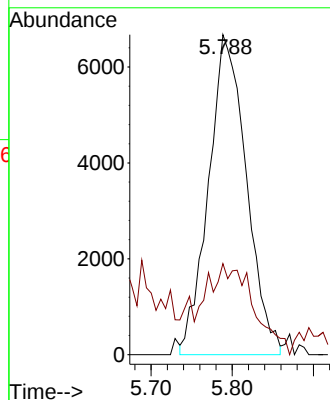
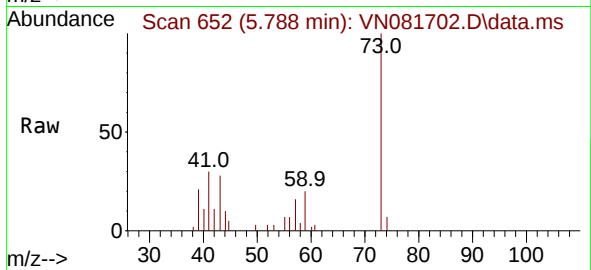
#24
Methyl tert-Butyl Ether
Concen: 1.952 ug/l
RT: 5.788 min Scan# 653
Delta R.T. -0.006 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA

Tgt Ion: 73 Resp: 21618
Ion Ratio Lower Upper
73 100
43 1.8 13.4 20.2

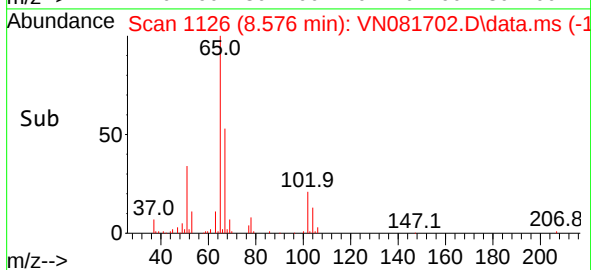
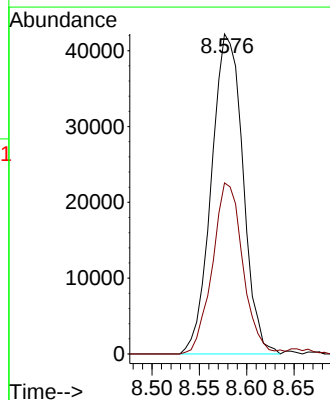
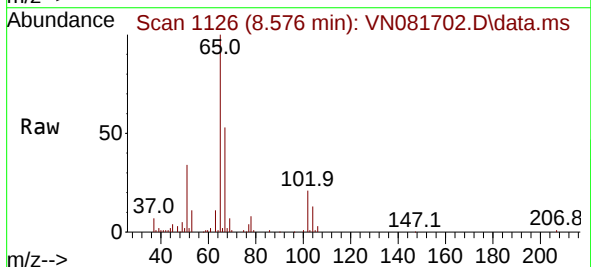
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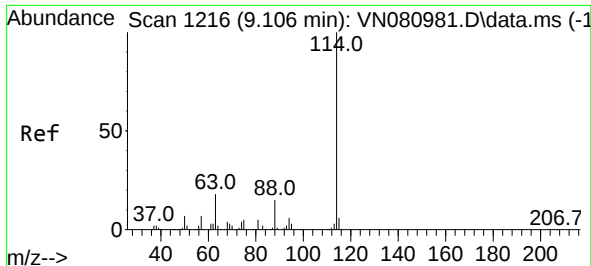
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#27
1,2-Dichloroethane-d4
Concen: 28.903 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

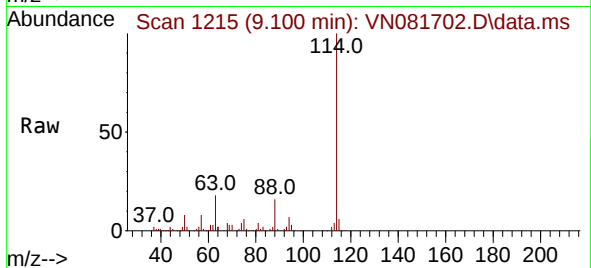
Tgt Ion: 65 Resp: 97634
Ion Ratio Lower Upper
65 100
67 51.5 43.2 64.8





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

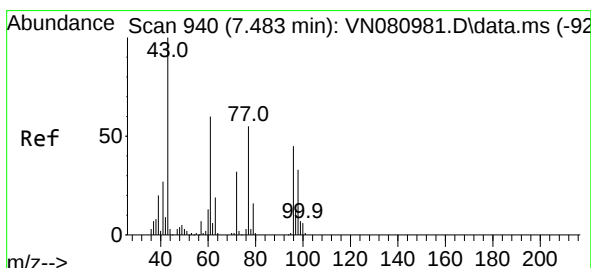
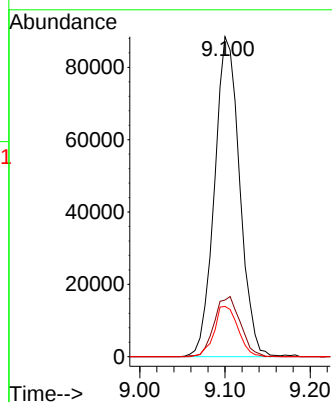
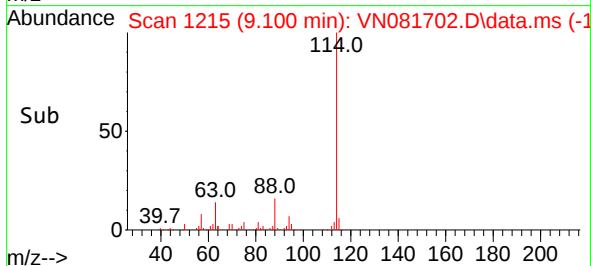
Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA



Tgt Ion:114 Resp: 18144
Ion Ratio Lower Upper
114 100
63 19.5 15.9 23.9
88 14.9 12.7 19.1

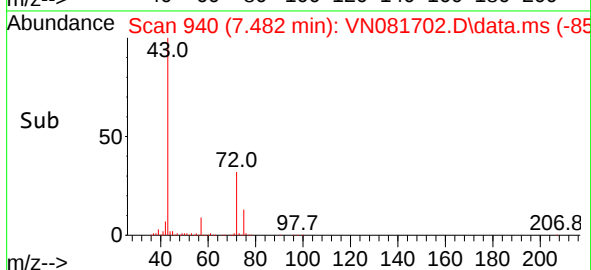
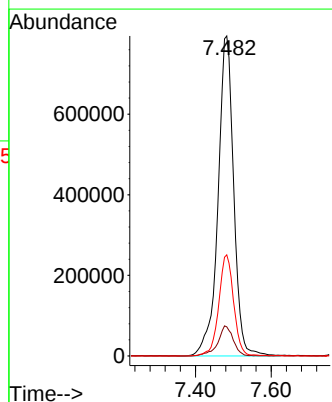
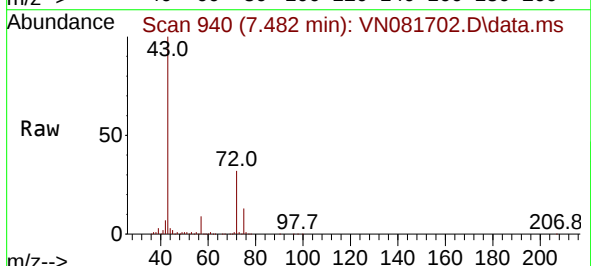
Manual Integrations
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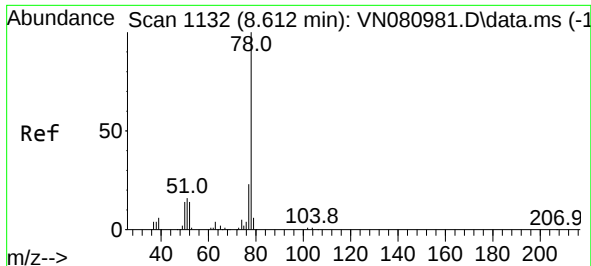
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#30
2-Butanone
Concen: 1258.111 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

Tgt Ion: 43 Resp: 2292031
Ion Ratio Lower Upper
43 100
57 9.2 6.7 10.1
72 29.9 24.0 36.0





#34

Benzene

Concen: 4.069 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN081702.D

Acq: 11 Apr 2024 17:26

Instrument :

MSVOA_N

ClientSampleId :

240410102-02-VOA

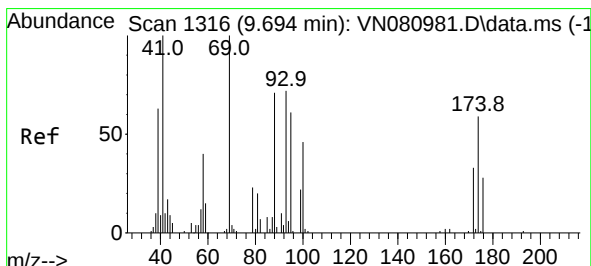
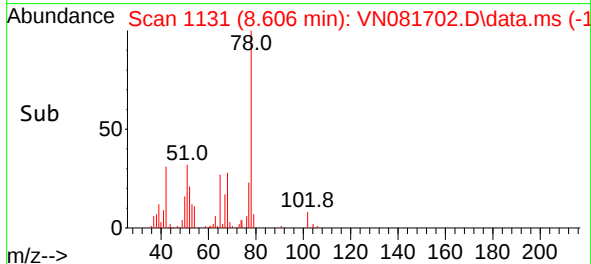
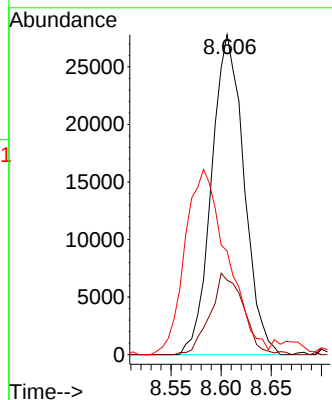
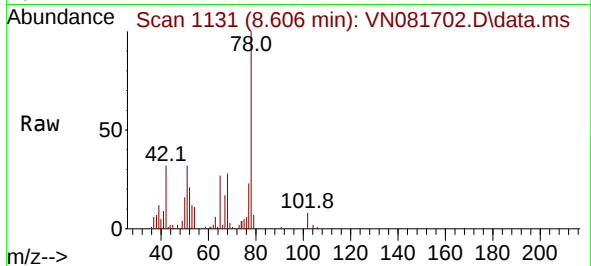
Tgt Ion: 78	Resp: 62534
Ion Ratio	Lower Upper
78 100	
77 22.6	19.2 28.8
51 29.1	13.3 19.9

Manual Integrations

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Reviewed By :John Carlone 04/12/2024

Supervised By :Mahesh Dadoda 04/12/2024



#45

1,4-Dioxane

Concen: 81.493 ug/l

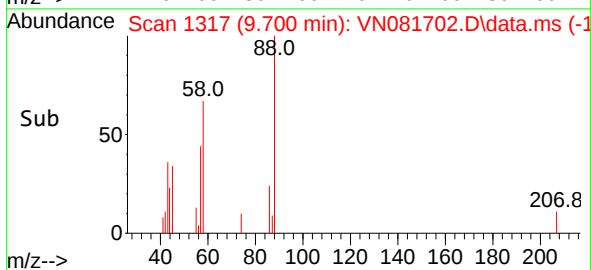
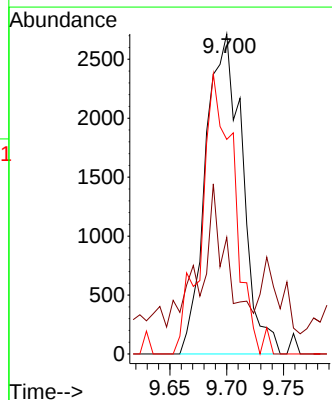
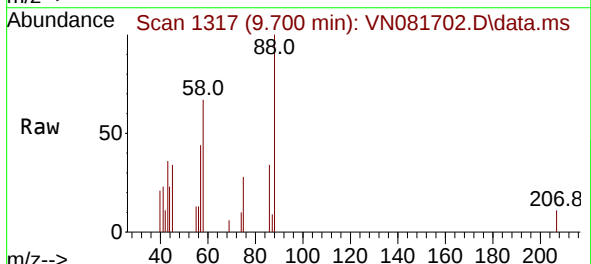
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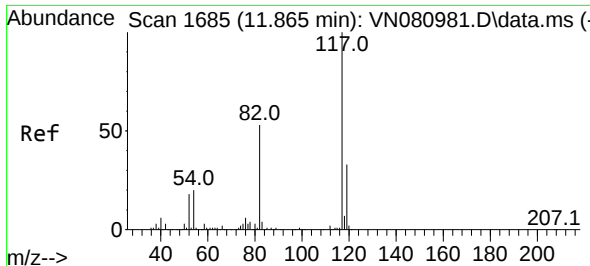
Delta R.T. 0.006 min

Lab File: VN081702.D

Acq: 11 Apr 2024 17:26

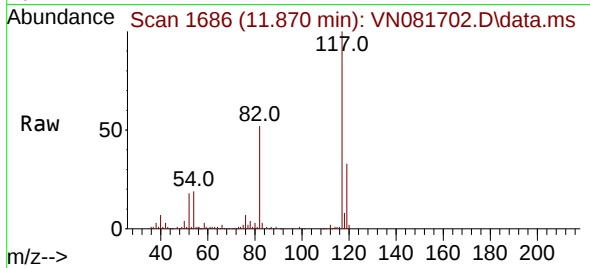
Tgt Ion: 88	Resp: 6052
Ion Ratio	Lower Upper
88 100	
43 22.4	19.8 29.6
58 33.1	55.4 83.0





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

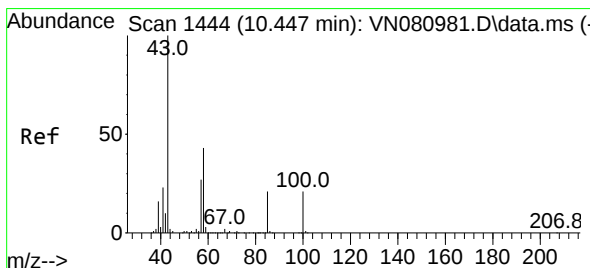
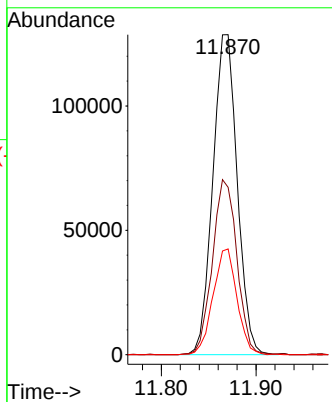
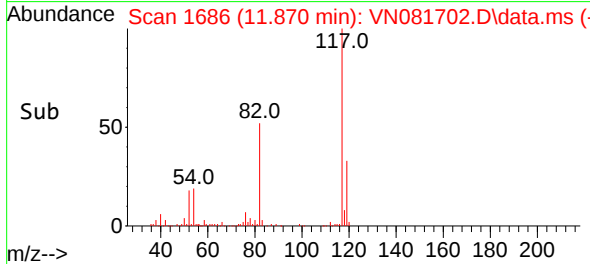
Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA



Tgt Ion: 117 Resp: 230350
Ion Ratio Lower Upper
117 100
82 55.0 46.6 69.8
119 32.4 25.4 38.2

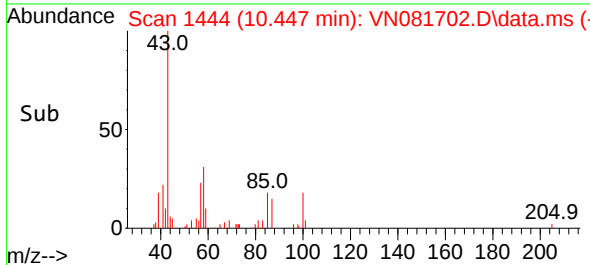
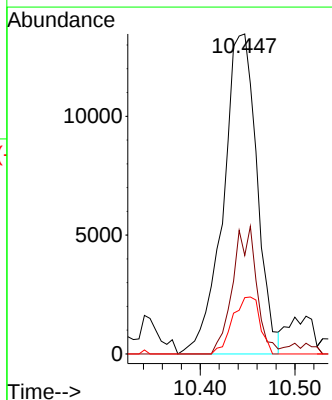
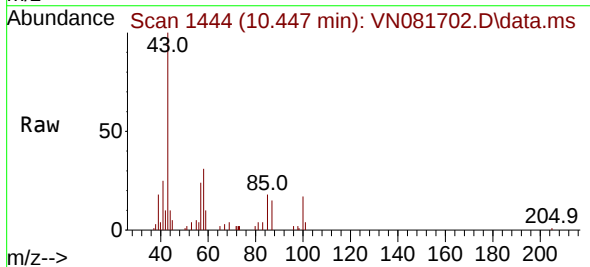
Manual Integrations
APPROVED

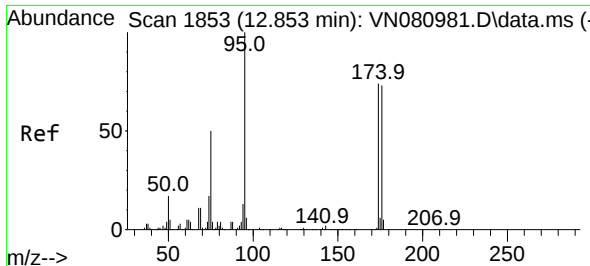
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#58
4-Methyl-2-Pentanone
Concen: 8.406 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

Tgt Ion: 43 Resp: 33301
Ion Ratio Lower Upper
43 100
58 28.3 36.5 54.7#
85 14.4 19.5 29.3#





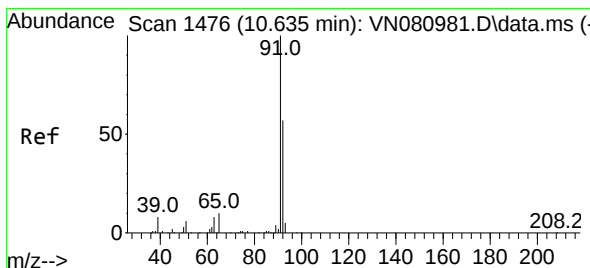
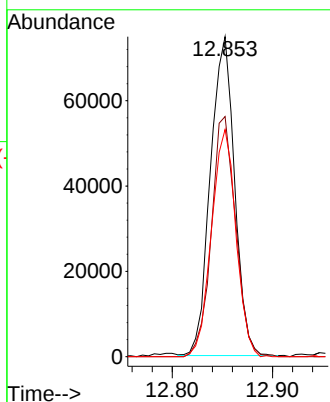
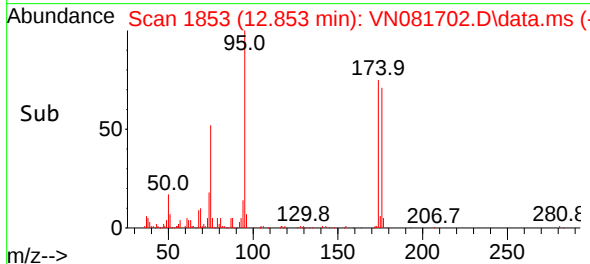
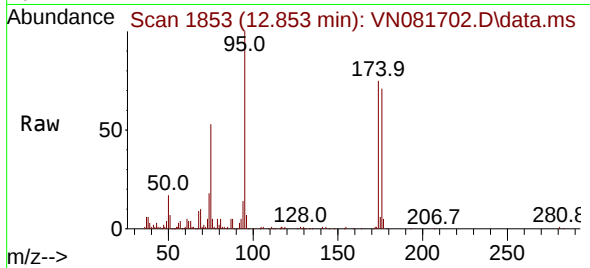
#60
4-Bromofluorobenzene
Concen: 27.540 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

Instrument :
MSVOA_N
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240410102-02-VOA

Tgt Ion: 95 Resp: 12472
Ion Ratio Lower Upper
95 100
174 75.6 60.5 90.7
176 72.1 57.8 86.6

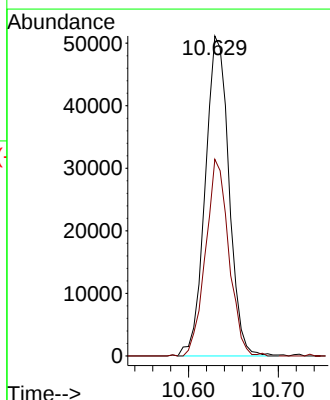
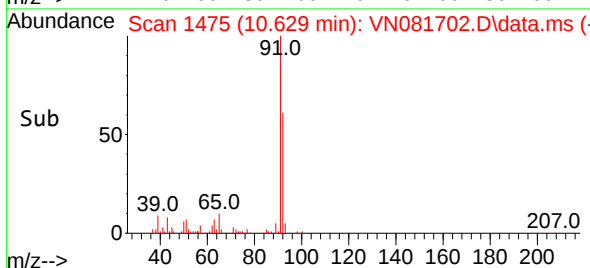
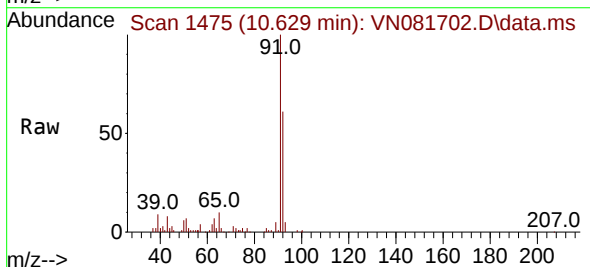
Manual Integrations
APPROVED

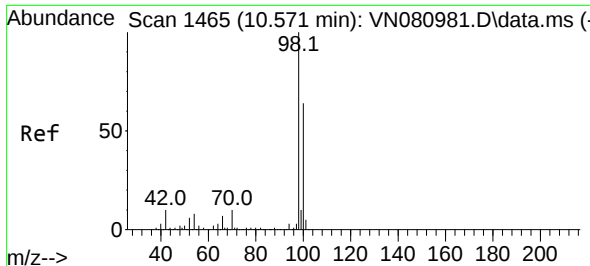
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#62
Toluene
Concen: 5.594 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

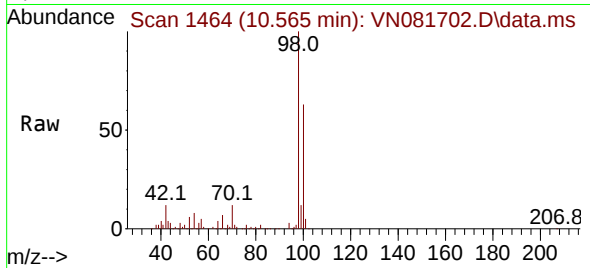
Tgt Ion: 91 Resp: 93740
Ion Ratio Lower Upper
91 100
92 59.9 46.5 69.7





#63
Toluene-d8
Concen: 28.439 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

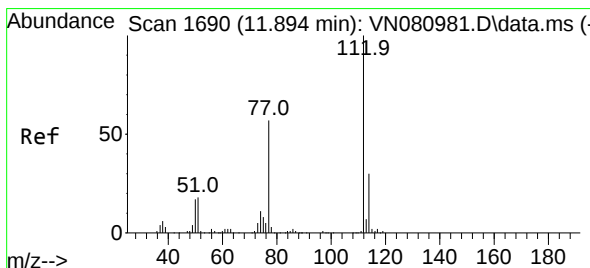
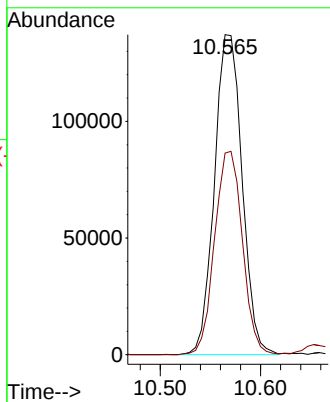
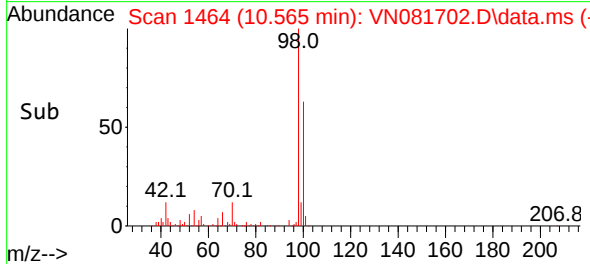
Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA



Tgt Ion: 98 Resp: 26277
Ion Ratio Lower Upper
98 100
100 63.9 52.7 79.1

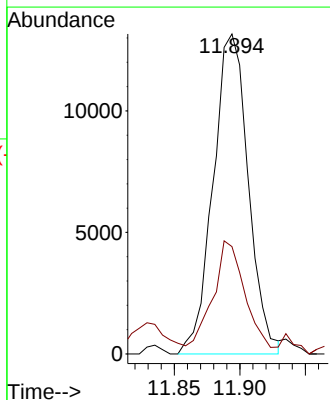
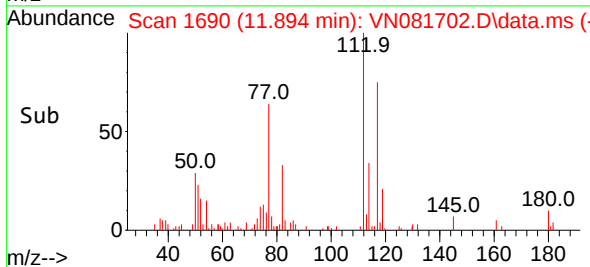
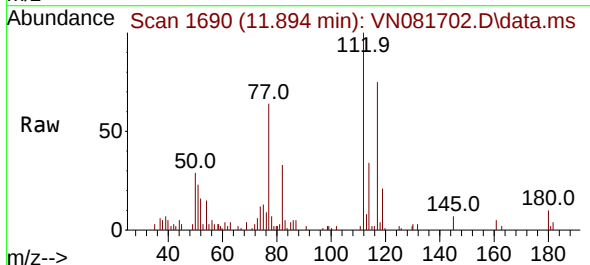
Manual Integrations
APPROVED

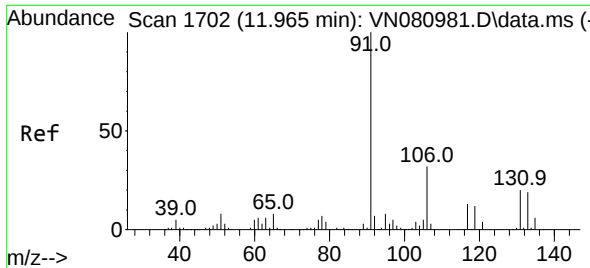
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#64
Chlorobenzene
Concen: 2.311 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

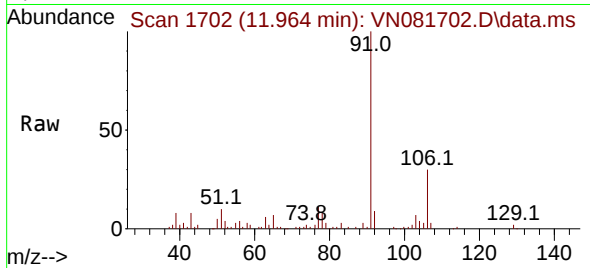
Tgt Ion:112 Resp: 24555
Ion Ratio Lower Upper
112 100
114 31.4 26.6 39.8





#66
Ethyl Benzene
Concen: 4.520 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

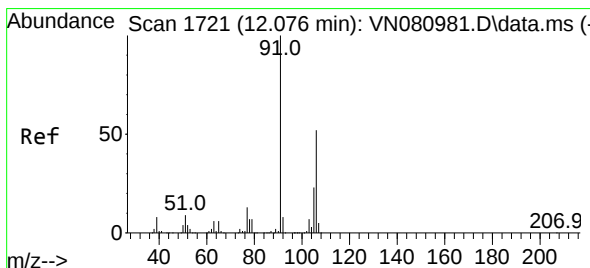
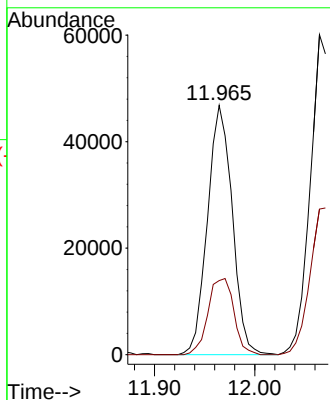
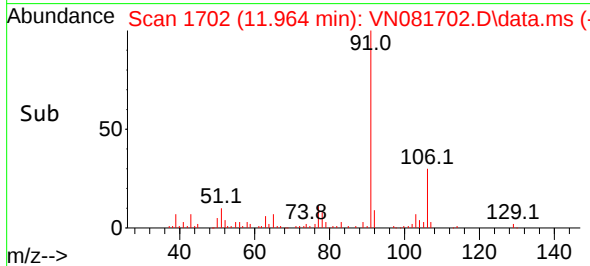
Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA



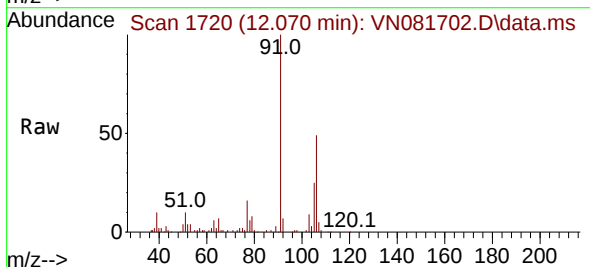
Tgt Ion: 91 Resp: 80532
Ion Ratio Lower Upper
91 100
106 29.7 24.4 36.6

Manual Integrations
APPROVED

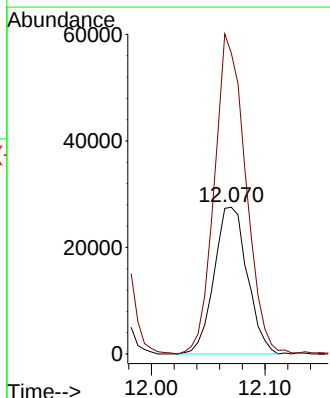
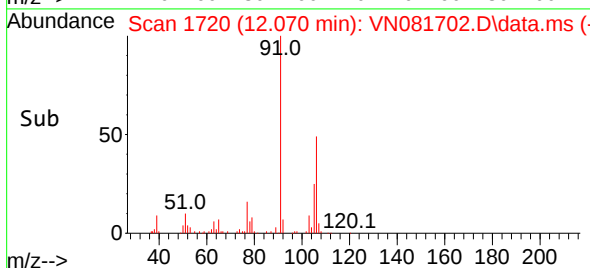
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024

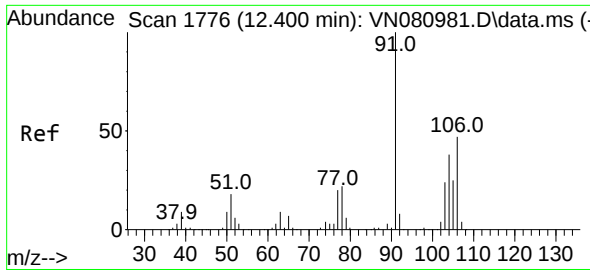


#67
m/p-Xylenes
Concen: 7.908 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26



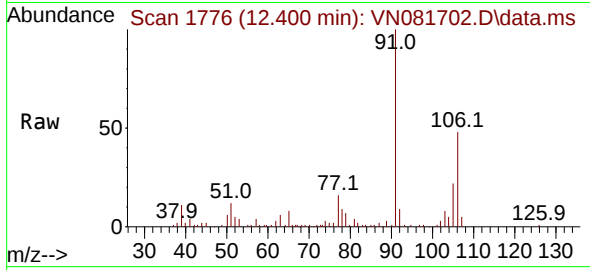
Tgt Ion:106 Resp: 55815
Ion Ratio Lower Upper
106 100
91 206.1 166.6 249.8





#68
o-Xylene
Concen: 4.714 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

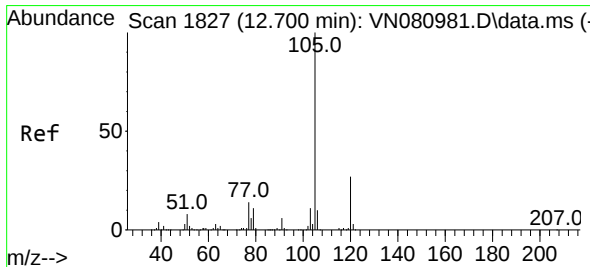
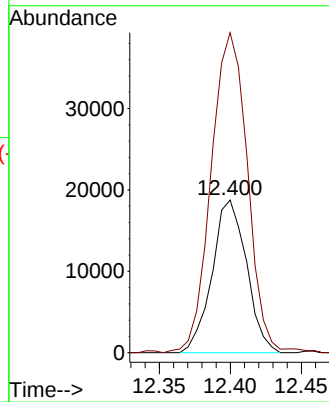
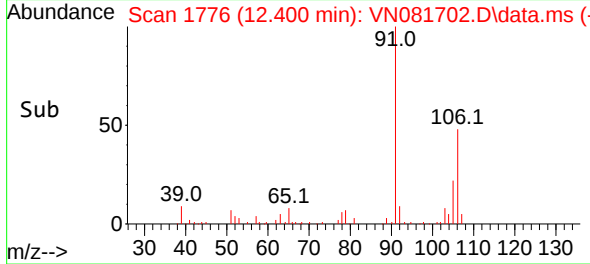
Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA



Tgt Ion:106 Resp: 3158
Ion Ratio Lower Upper
106 100
91 220.3 110.0 330.0

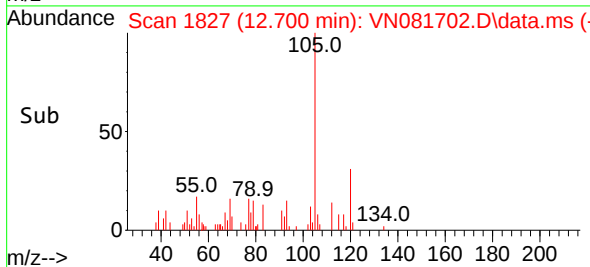
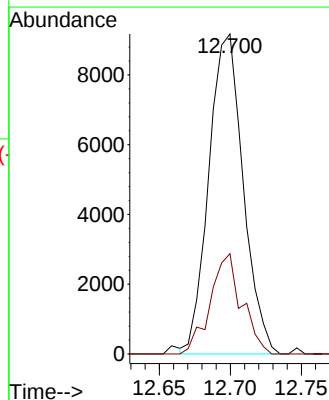
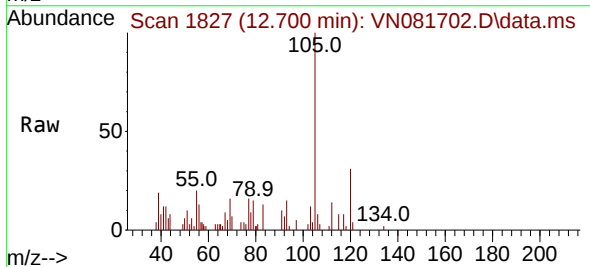
Manual Integrations
APPROVED

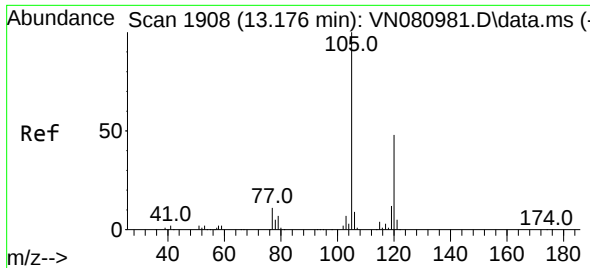
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#70
Isopropylbenzene
Concen: 0.893 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. 0.006 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

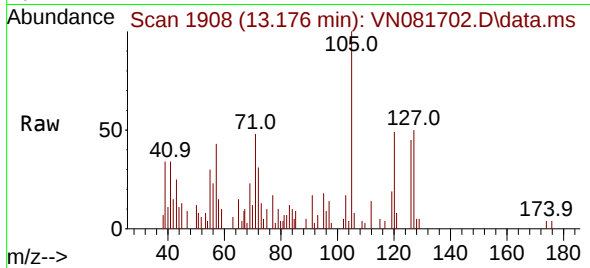
Tgt Ion:105 Resp: 15443
Ion Ratio Lower Upper
105 100
120 28.8 17.8 33.1





#76
 1,3,5-Trimethylbenzene
 Concen: 0.599 ug/l
 RT: 13.176 min Scan# 1908
 Delta R.T. -0.000 min
 Lab File: VN081702.D
 Acq: 11 Apr 2024 17:26

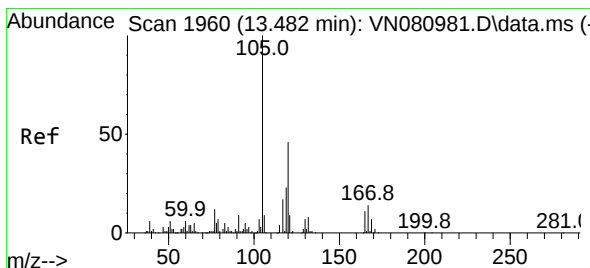
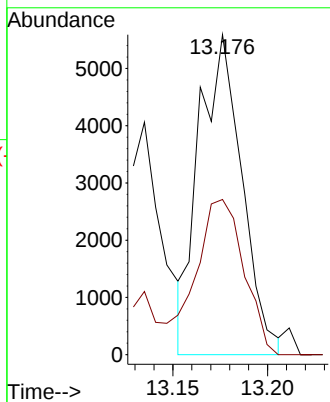
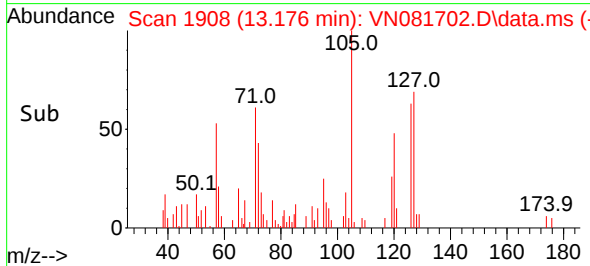
Instrument :
 MSVOA_N
 ClientSampleId :
 240410102-02-VOA



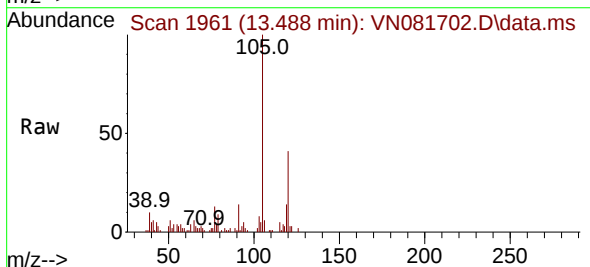
Tgt Ion:105 Resp: 878
 Ion Ratio Lower Upper
 105 100
 120 54.5 0.0 95.8

Manual Integrations
 APPROVED

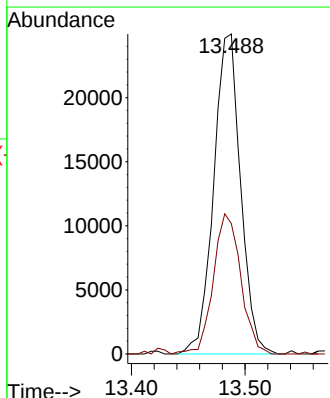
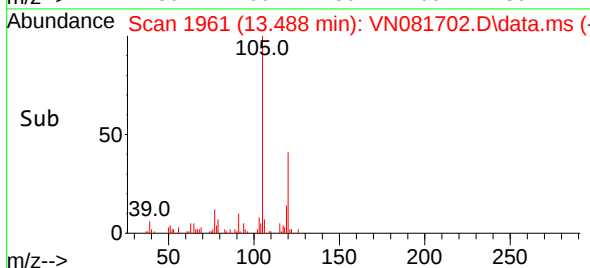
Reviewed By :John Carlone 04/12/2024
 Supervised By :Mahesh Dadoda 04/12/2024

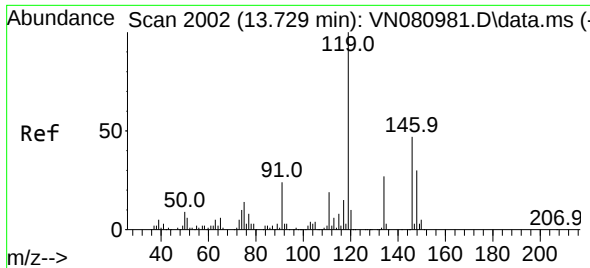


#80
 1,2,4-Trimethylbenzene
 Concen: 2.809 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. 0.006 min
 Lab File: VN081702.D
 Acq: 11 Apr 2024 17:26



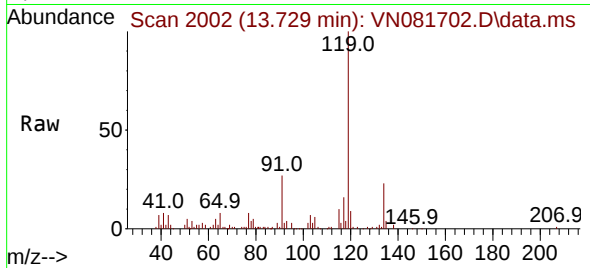
Tgt Ion:105 Resp: 41097
 Ion Ratio Lower Upper
 105 100
 120 44.1 0.0 86.8





#82
p-Isopropyltoluene
Concen: 4.502 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26

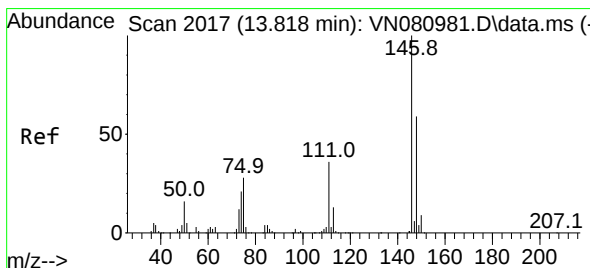
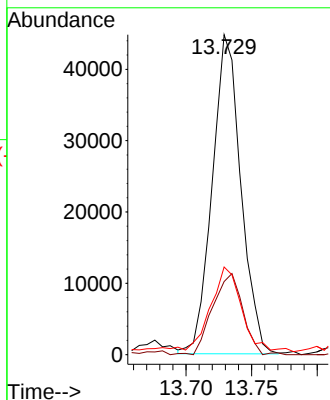
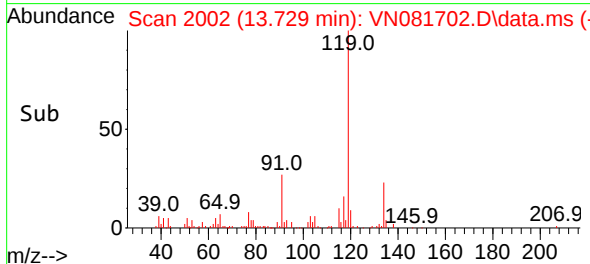
Instrument :
MSVOA_N
ClientSampleId :
240410102-02-VOA



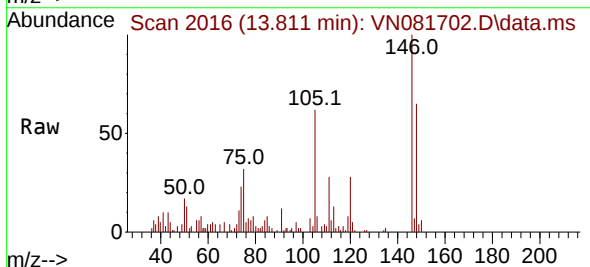
Tgt Ion:119 Resp: 67968
Ion Ratio Lower Upper
119 100
134 26.3 0.0 49.2
91 27.3 0.0 48.8

Manual Integrations
APPROVED

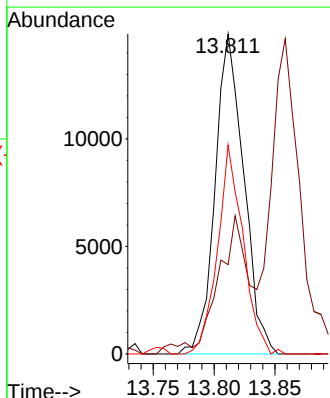
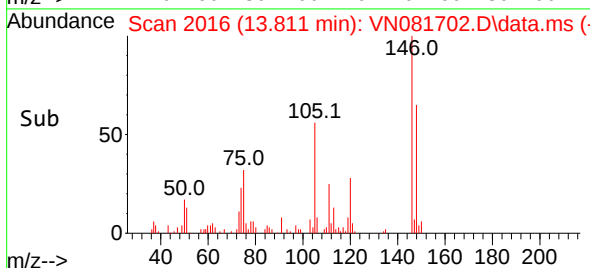
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024

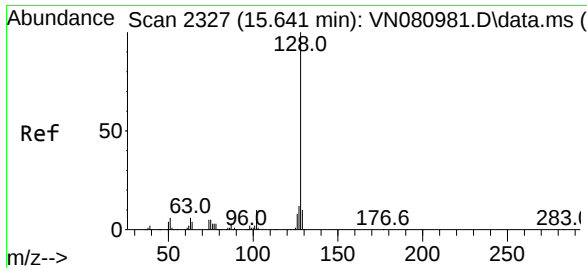


#84
1,4-Dichlorobenzene
Concen: 3.150 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN081702.D
Acq: 11 Apr 2024 17:26



Tgt Ion:146 Resp: 24407
Ion Ratio Lower Upper
146 100
111 41.7 21.3 63.9
148 58.0 31.9 95.5





#91

Naphthalene

Concen: 39.150 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN081702.D

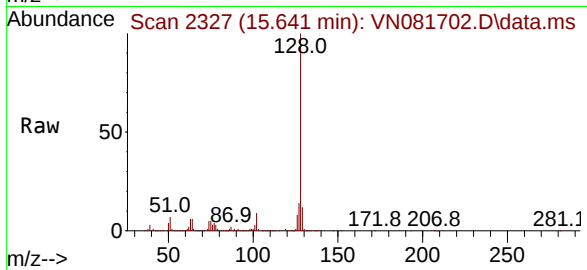
Acq: 11 Apr 2024 17:26

Instrument :

MSVOA_N

ClientSampleId :

240410102-02-VOA



Tgt Ion:128 Resp: 52565

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 10.9 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/12/2024

Supervised By :Mahesh Dadoda 04/12/2024

