

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041124\
 Data File : VN081701.D
 Acq On : 11 Apr 2024 17:02
 Operator : JC\MD
 Sample : P2076-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 240410075-02-VOA

Manual Integrations
 APPROVED

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

Quant Time: Apr 12 06:03:19 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	7.818	128	25488	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	155498	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	197714	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	92998	29.701	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.000%		
60) 4-Bromofluorobenzene	12.853	95	107902	27.759	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.533%		
63) Toluene-d8	10.571	98	225275	28.405	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	94.700%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.960	74	16098m	8.274	ug/l	
15) Acetone	4.442	58	3151m	9.550	ug/l	
23) tert-Butyl Alcohol	5.518	59	98184	184.364	ug/l #	100
34) Benzene	8.606	78	22879	1.737	ug/l #	75
37) Trichloroethene	9.359	130	1637	0.470	ug/l #	72
62) Toluene	10.630	91	24815	1.725	ug/l	97
64) Chlorobenzene	11.894	112	76600	8.398	ug/l	93
66) Ethyl Benzene	11.965	91	120863	7.903	ug/l	96
67) m/p-Xylenes	12.071	106	27144	4.481	ug/l	92
68) o-Xylene	12.394	106	22885	3.979	ug/l	99
70) Isopropylbenzene	12.694	105	21114	1.423	ug/l	98
74) n-propylbenzene	13.041	91	11491	0.647	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	7924	0.629	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	31847	2.536	ug/l	97
82) p-Isopropyltoluene	13.730	119	8225	0.635	ug/l	85
84) 1,4-Dichlorobenzene	13.818	146	58499	8.796	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	4121	0.630	ug/l	83
91) Naphthalene	15.641	128	100869	8.753	ug/l	98

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

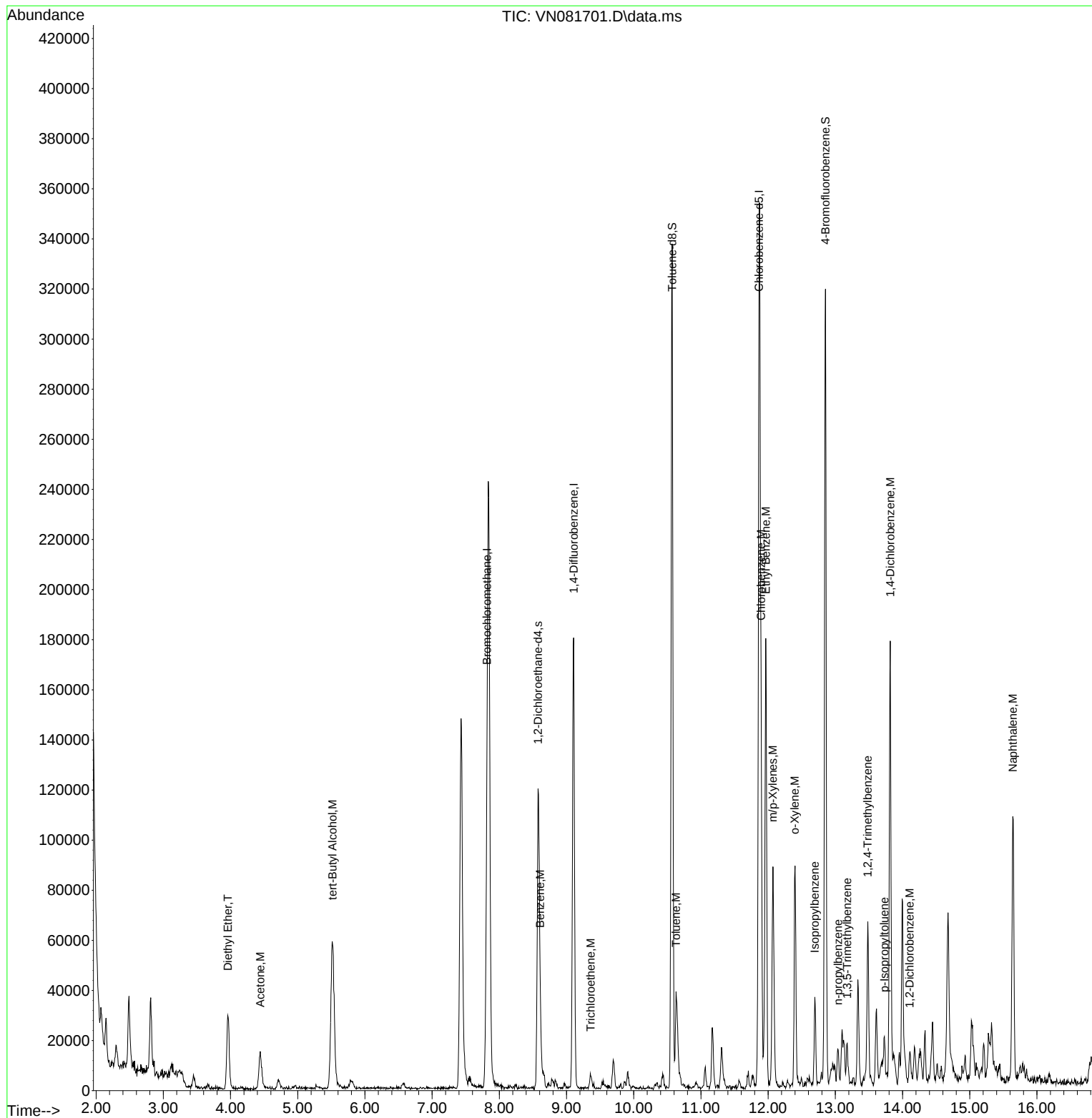
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041124\
Data File : VN081701.D
Acq On : 11 Apr 2024 17:02
Operator : JC\MD
Sample : P2076-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

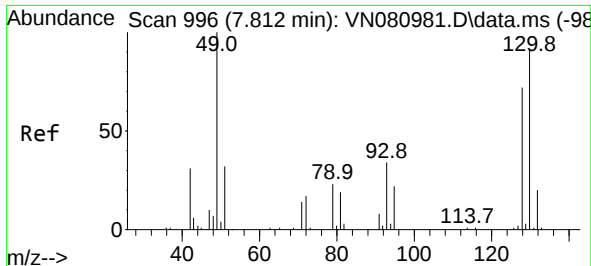
Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA

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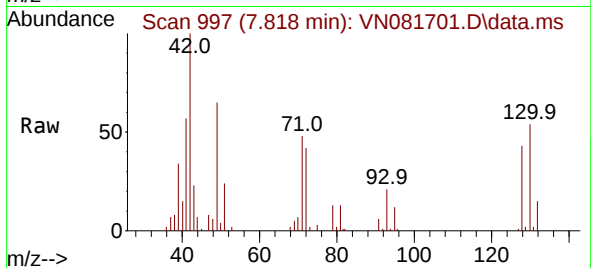
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 11 09:25:01 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

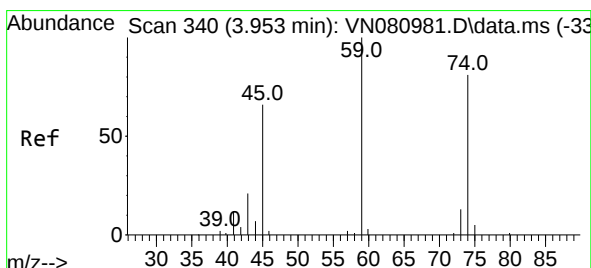
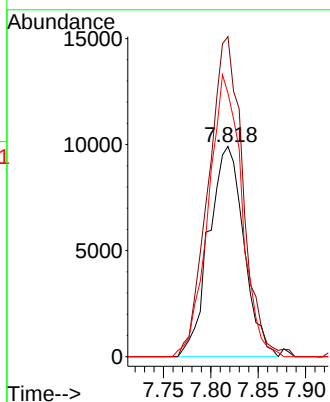
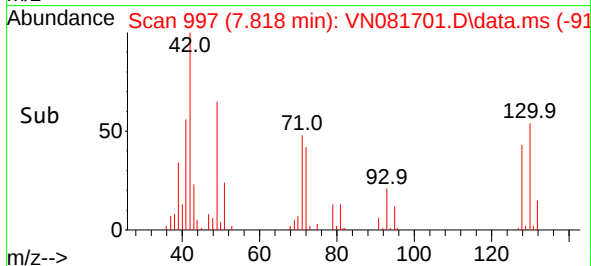
Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA



Tgt Ion:128 Resp: 2548
Ion Ratio Lower Upper
128 100
49 149.1 0.0 403.7
130 127.3 0.0 323.3

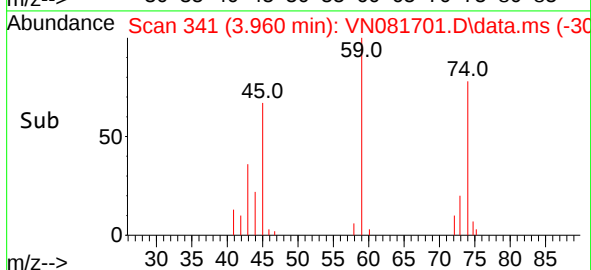
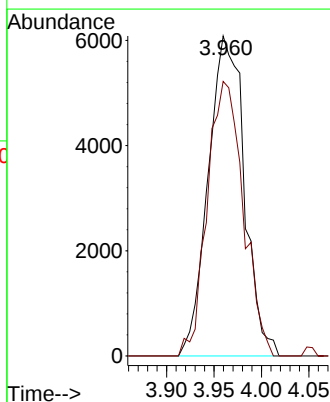
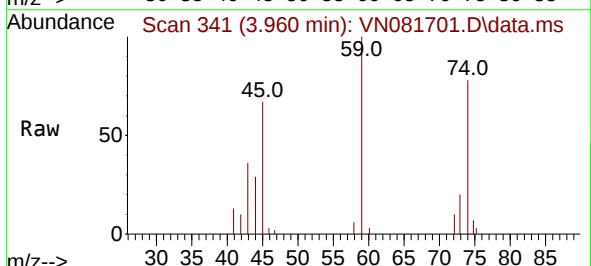
Manual Integrations
APPROVED

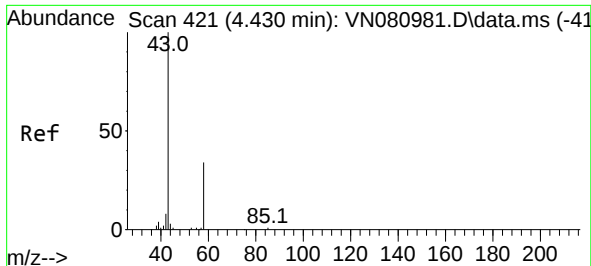
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#8
Diethyl Ether
Concen: 8.274 ug/l m
RT: 3.960 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

Tgt Ion: 74 Resp: 16098
Ion Ratio Lower Upper
74 100
45 84.1 16.4 147.4





#15

Acetone

Concen: 9.550 ug/l m

RT: 4.442 min Scan# 41

Delta R.T. 0.018 min

Lab File: VN081701.D

Acq: 11 Apr 2024 17:02

Instrument :

MSVOA_N

ClientSampleId :

240410075-02-VOA

Tgt Ion: 58 Resp: 315

Ion Ratio Lower Upper

58 100

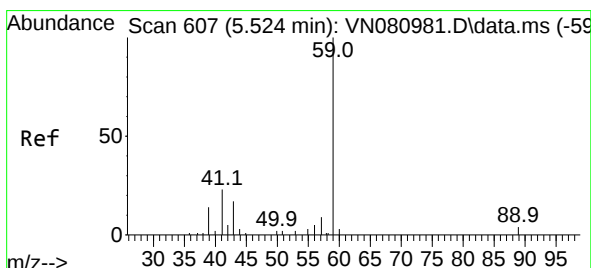
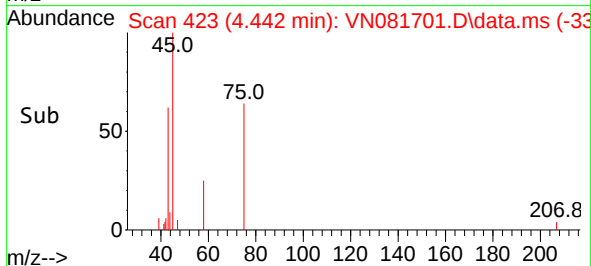
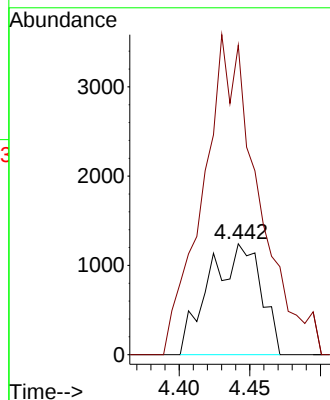
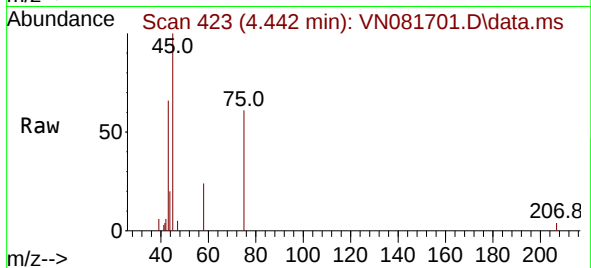
43 279.1 223.1 334.7

Manual Integrations

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Reviewed By :John Carlone 04/12/2024

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#23

tert-Butyl Alcohol

Concen: 184.364 ug/l

RT: 5.518 min Scan# 606

Delta R.T. 0.006 min

Lab File: VN081701.D

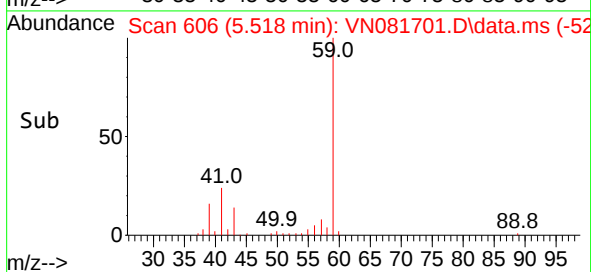
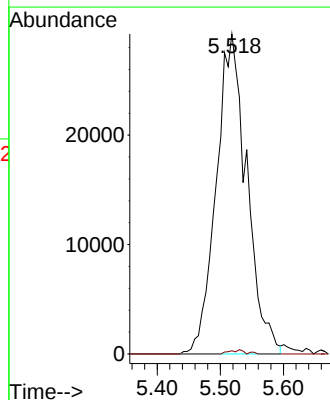
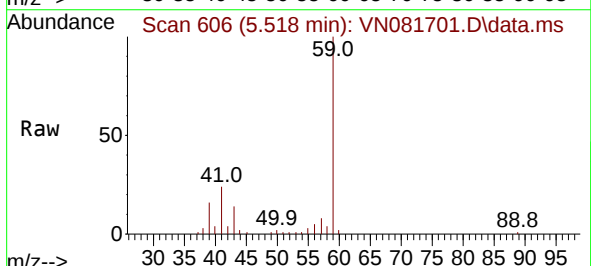
Acq: 11 Apr 2024 17:02

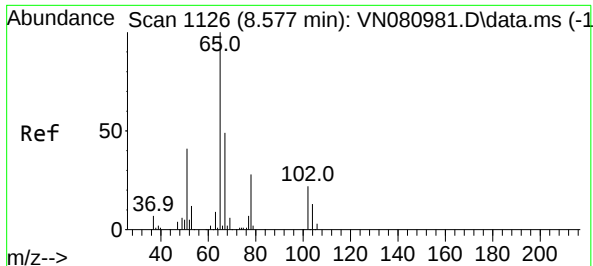
Tgt Ion: 59 Resp: 98184

Ion Ratio Lower Upper

59 100

52 0.3 0.0 0.0#





#27

1,2-Dichloroethane-d4

Concen: 29.701 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN081701.D

Acq: 11 Apr 2024 17:02

Instrument :

MSVOA_N

ClientSampleId :

240410075-02-VOA

Tgt Ion: 65 Resp: 92998

Ion Ratio Lower Upper

65 100

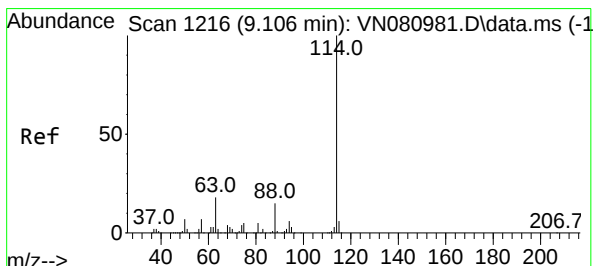
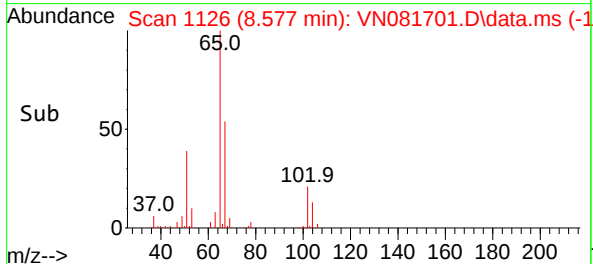
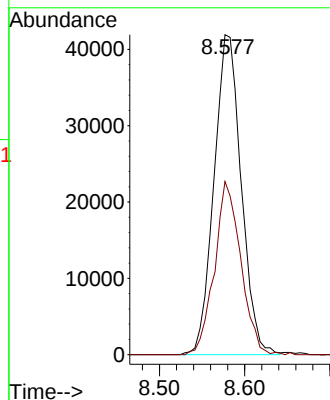
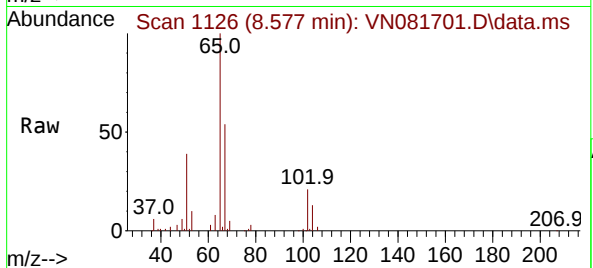
67 52.1 43.2 64.8

Manual Integrations

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Reviewed By :John Carlone 04/12/2024

Supervised By :Mahesh Dadoda 04/12/2024



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081701.D

Acq: 11 Apr 2024 17:02

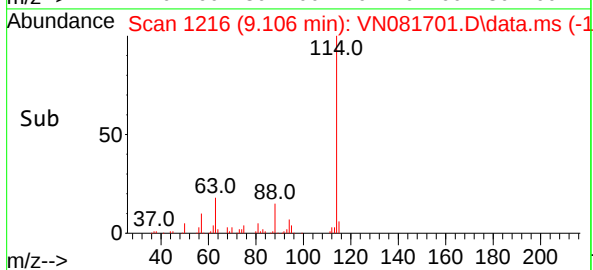
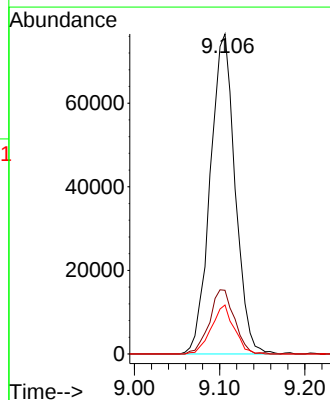
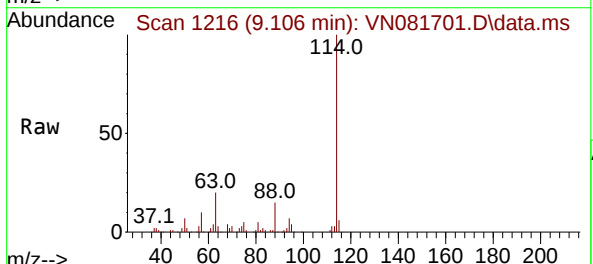
Tgt Ion:114 Resp: 155498

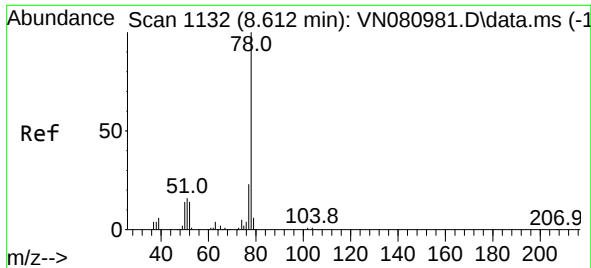
Ion Ratio Lower Upper

114 100

63 20.0 15.9 23.9

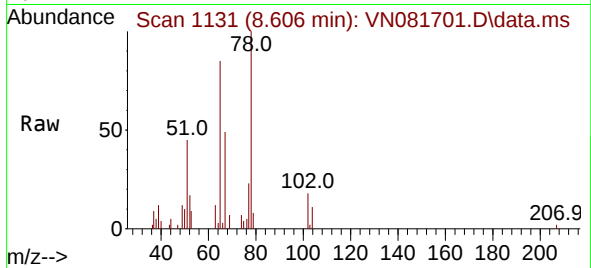
88 14.0 12.7 19.1





#34
Benzene
Concen: 1.737 ug/l
RT: 8.606 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

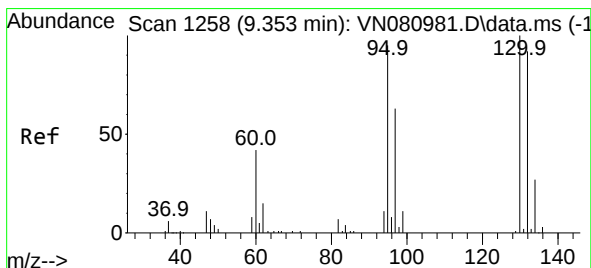
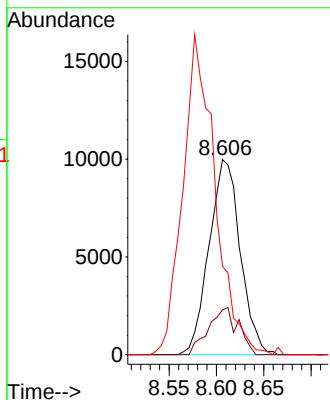
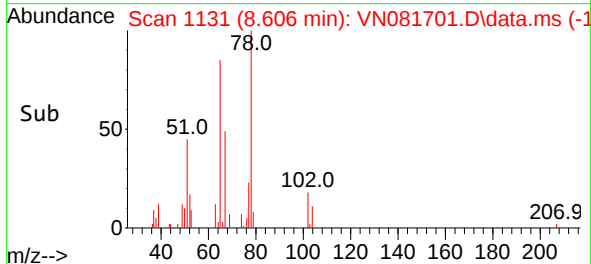
Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA



Tgt Ion: 78 Resp: 22879
Ion Ratio Lower Upper
78 100
77 22.9 19.2 28.8
51 41.6 13.3 19.9

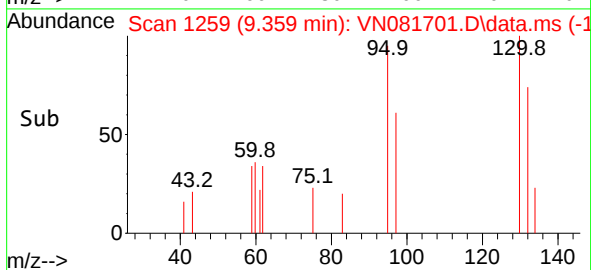
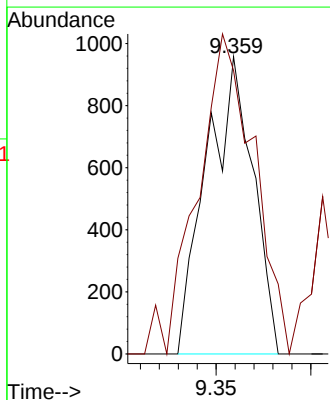
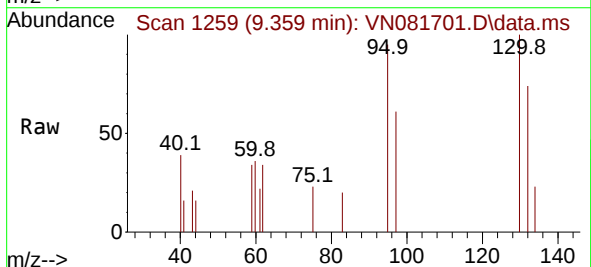
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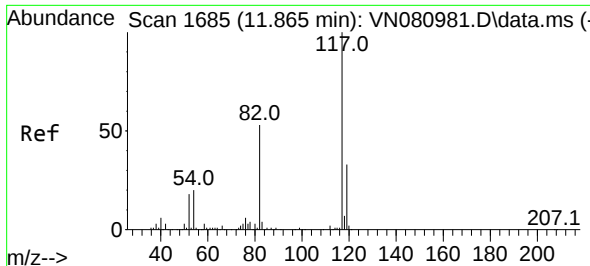
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#37
Trichloroethene
Concen: 0.470 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.006 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

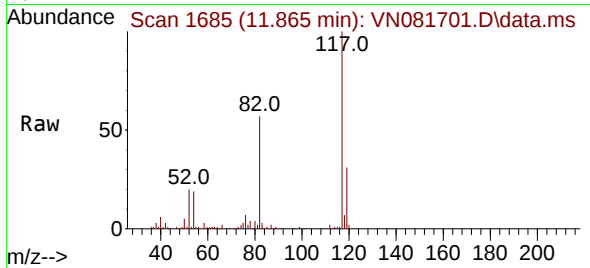
Tgt Ion:130 Resp: 1637
Ion Ratio Lower Upper
130 100
95 71.8 80.2 120.4#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

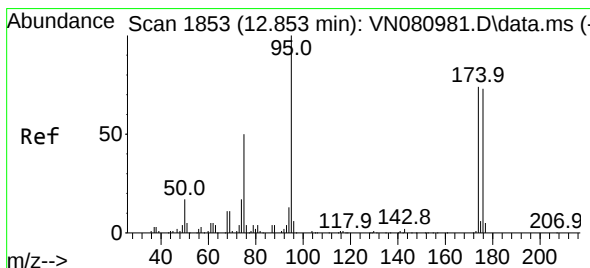
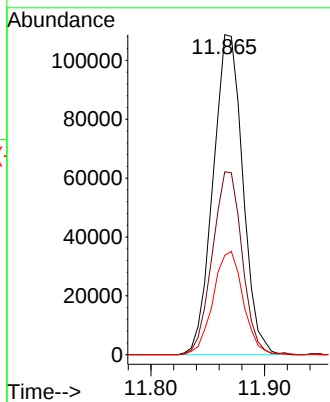
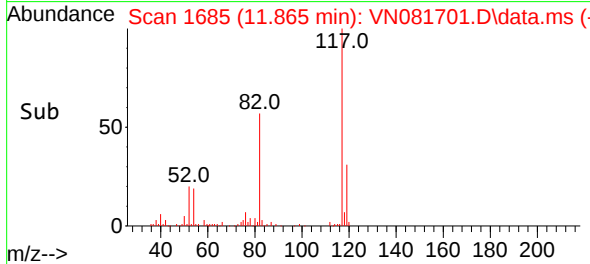
Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA



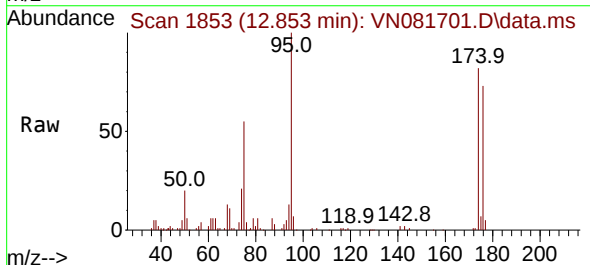
Tgt Ion: 117 Resp: 197714
Ion Ratio Lower Upper
117 100
82 57.2 46.6 69.8
119 32.6 25.4 38.2

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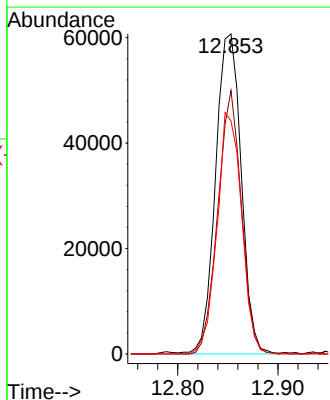
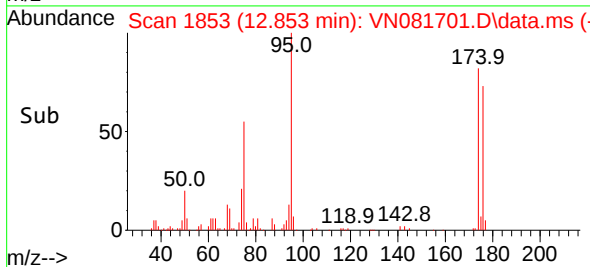
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024

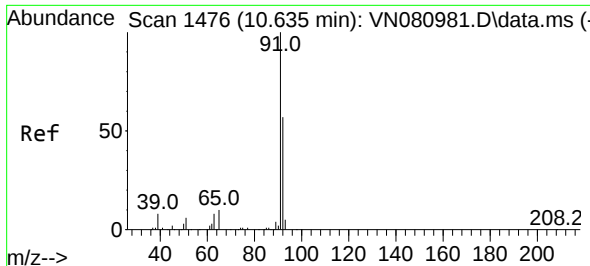


#60
4-Bromofluorobenzene
Concen: 27.759 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02



Tgt Ion: 95 Resp: 107902
Ion Ratio Lower Upper
95 100
174 75.6 60.5 90.7
176 72.2 57.8 86.6





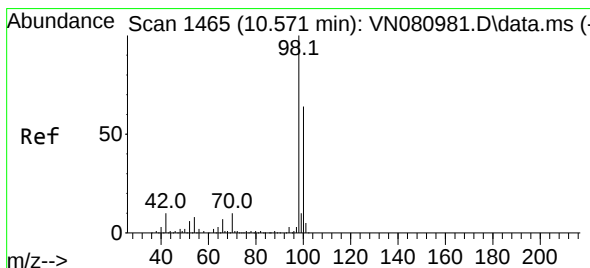
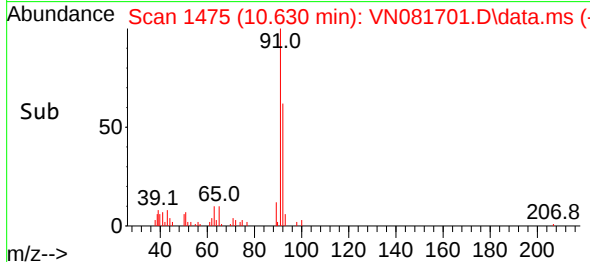
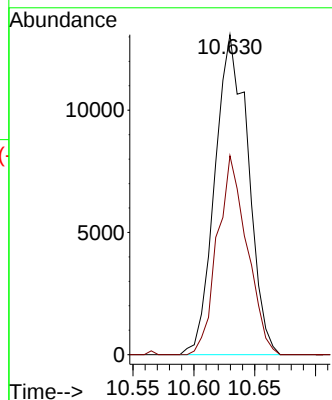
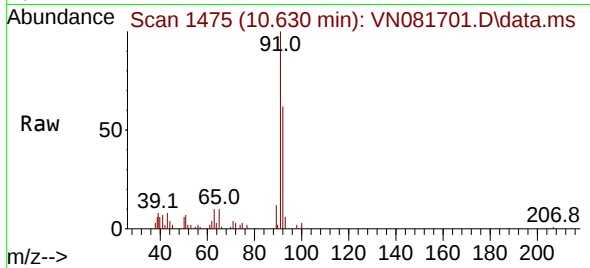
#62
Toluene
Concen: 1.725 ug/l
RT: 10.630 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA

Tgt Ion: 91 Resp: 24815
Ion Ratio Lower Upper
91 100
92 55.7 46.5 69.7

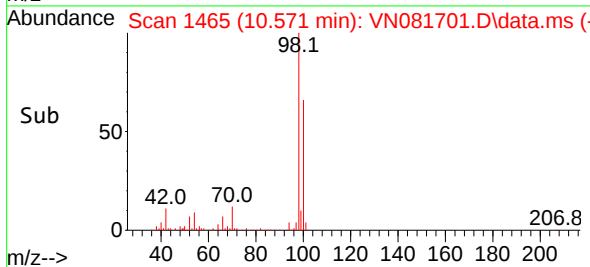
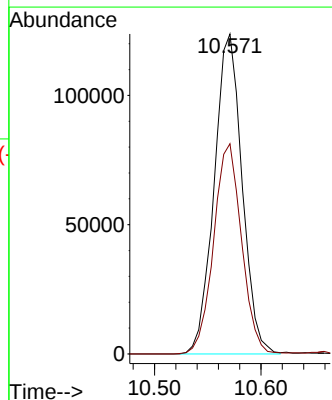
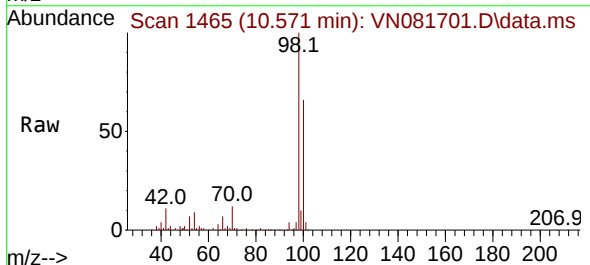
Manual Integrations
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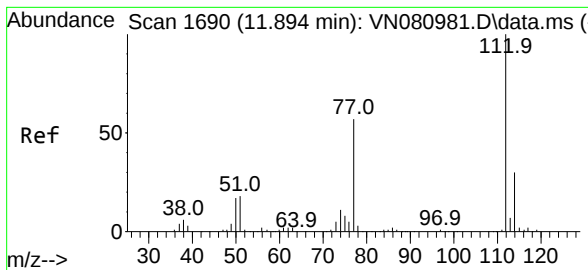
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#63
Toluene-d8
Concen: 28.405 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

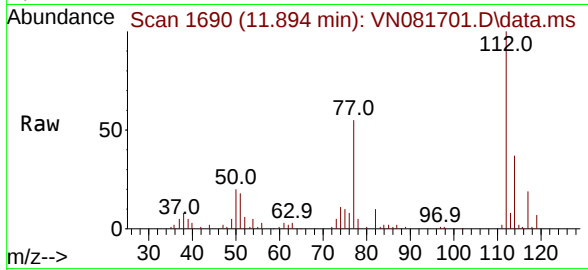
Tgt Ion: 98 Resp: 225275
Ion Ratio Lower Upper
98 100
100 65.6 52.7 79.1





#64
Chlorobenzene
Concen: 8.398 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

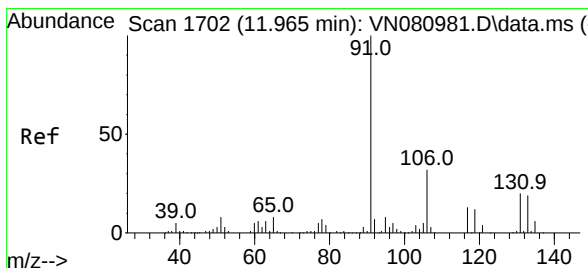
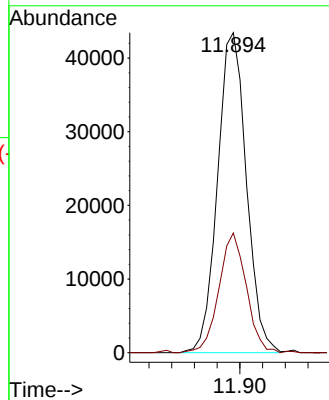
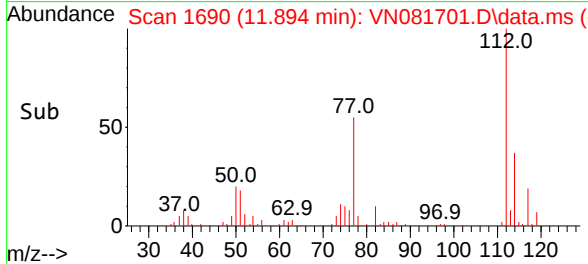
Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA



Tgt Ion:112 Resp: 76600
Ion Ratio Lower Upper
112 100
114 37.4 26.6 39.8

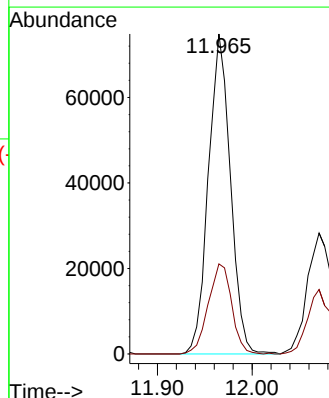
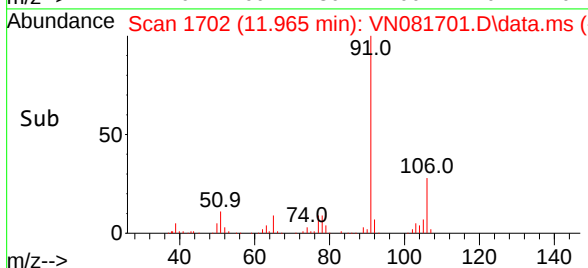
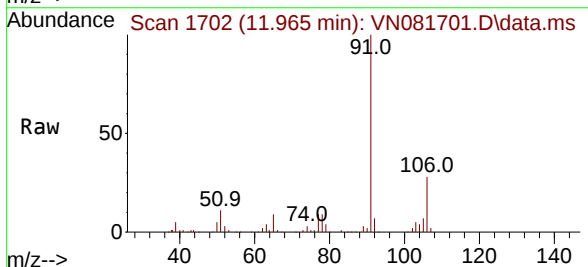
Manual Integrations
APPROVED

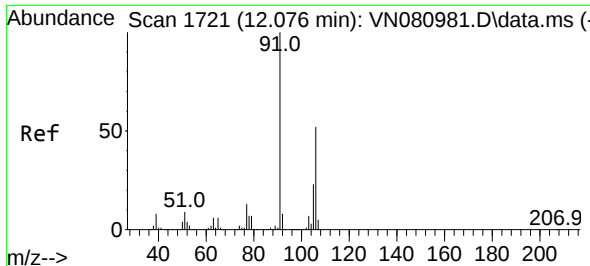
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#66
Ethyl Benzene
Concen: 7.903 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

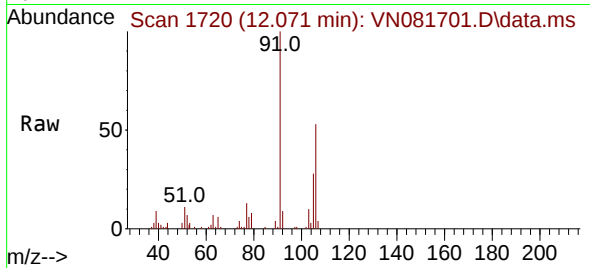
Tgt Ion: 91 Resp: 120863
Ion Ratio Lower Upper
91 100
106 28.1 24.4 36.6





#67
m/p-Xylenes
Concen: 4.481 ug/l
RT: 12.071 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

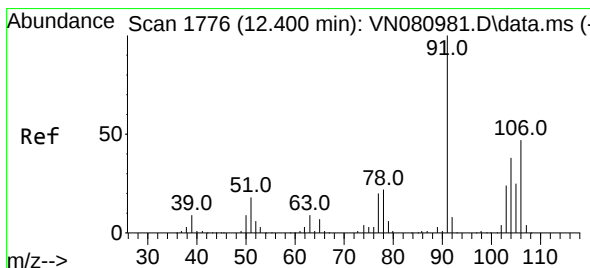
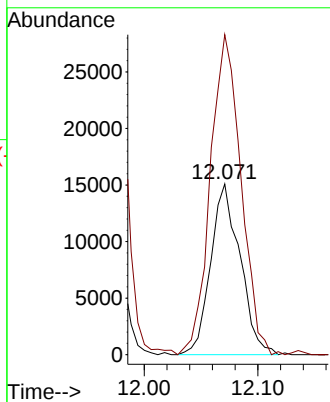
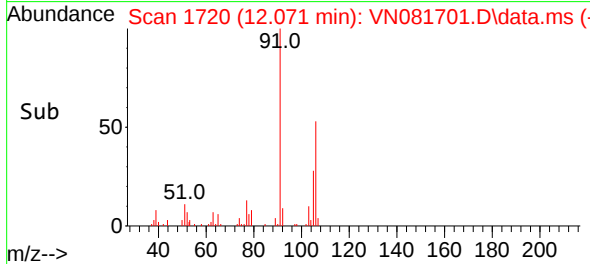
Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA



Tgt Ion:106 Resp: 27144
Ion Ratio Lower Upper
106 100
91 195.1 166.6 249.8

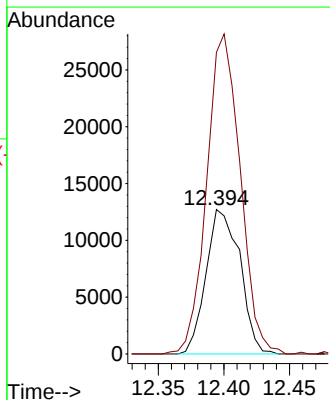
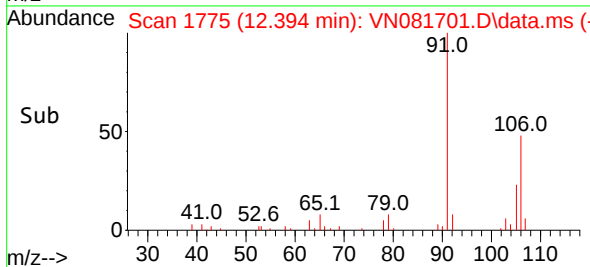
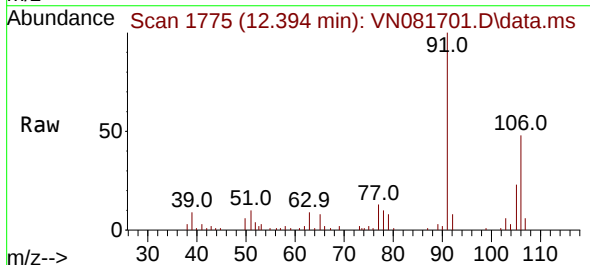
Manual Integrations
APPROVED

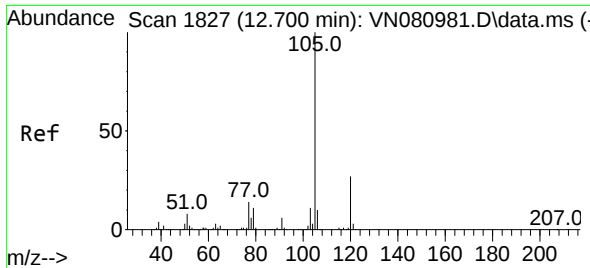
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#68
o-Xylene
Concen: 3.979 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

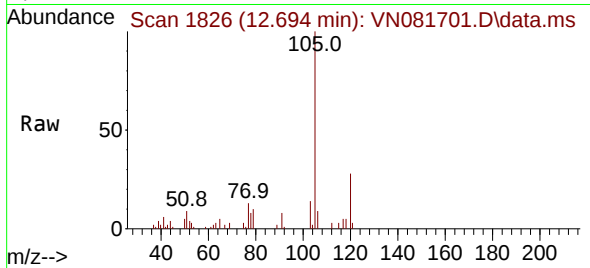
Tgt Ion:106 Resp: 22885
Ion Ratio Lower Upper
106 100
91 218.9 110.0 330.0





#70
Isopropylbenzene
Concen: 1.423 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

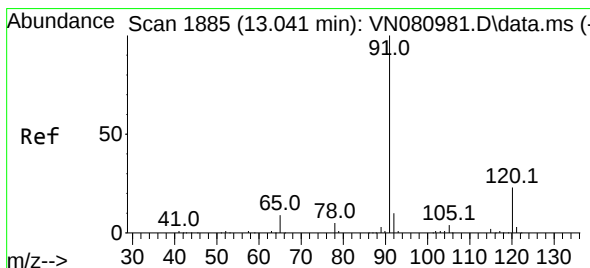
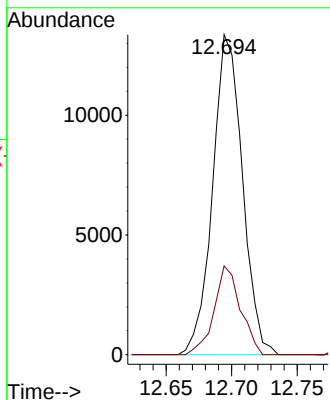
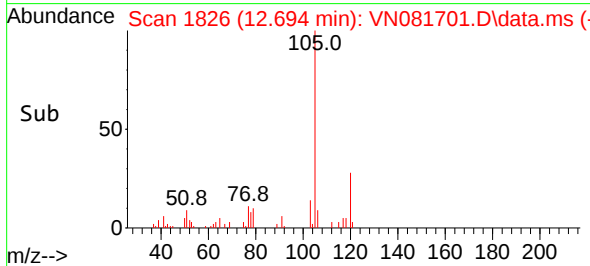
Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA



Tgt Ion:105 Resp: 21114
Ion Ratio Lower Upper
105 100
120 24.6 17.8 33.1

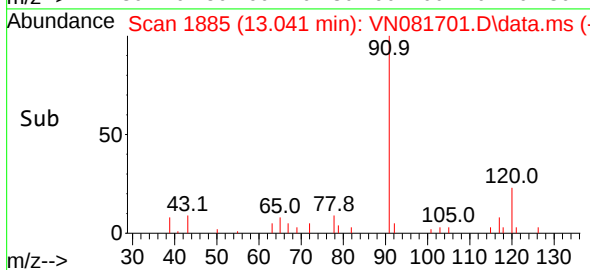
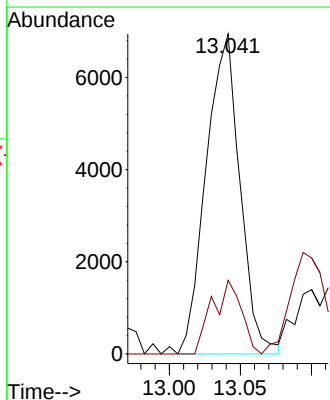
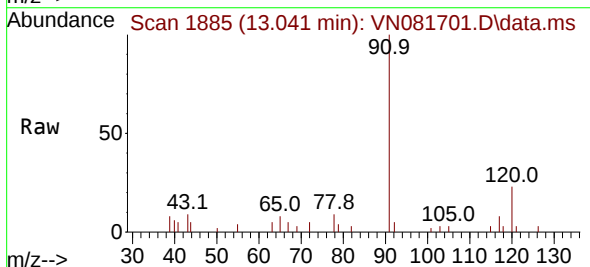
Manual Integrations
APPROVED

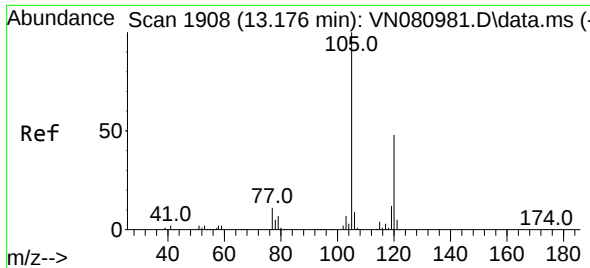
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024



#74
n-propylbenzene
Concen: 0.647 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.006 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

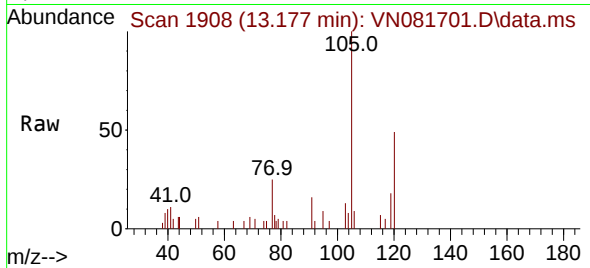
Tgt Ion: 91 Resp: 11491
Ion Ratio Lower Upper
91 100
120 19.9 0.0 43.8





#76
1,3,5-Trimethylbenzene
Concen: 0.629 ug/l
RT: 13.177 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

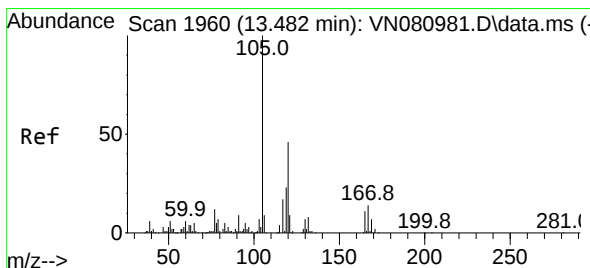
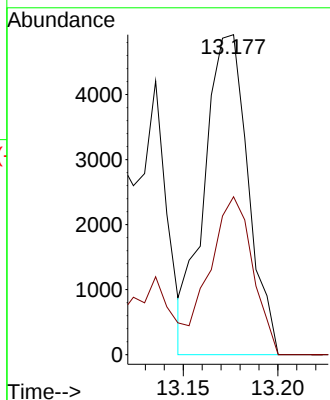
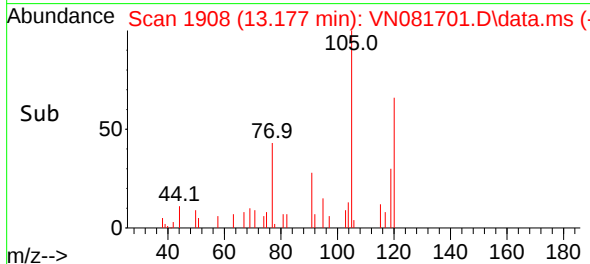
Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA



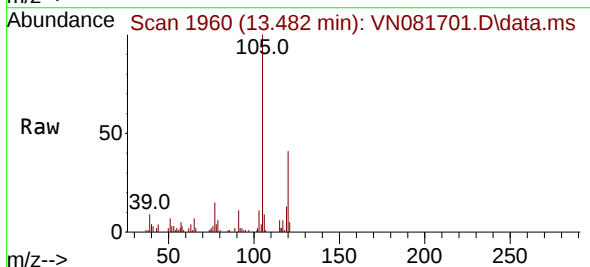
Tgt Ion:105 Resp: 7924
Ion Ratio Lower Upper
105 100
120 47.0 0.0 95.8

Manual Integrations
APPROVED

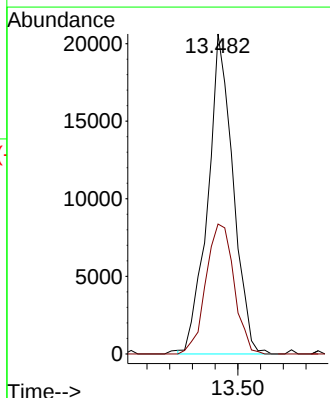
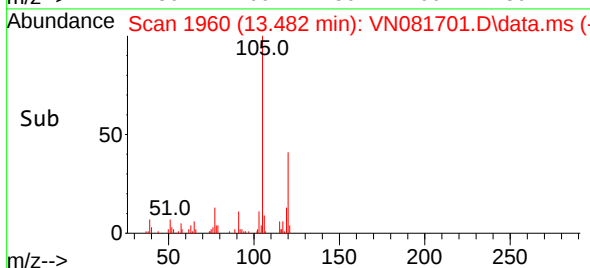
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024

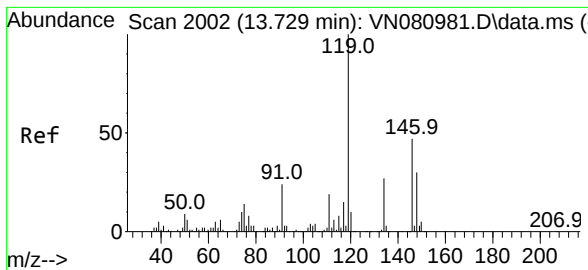


#80
1,2,4-Trimethylbenzene
Concen: 2.536 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02



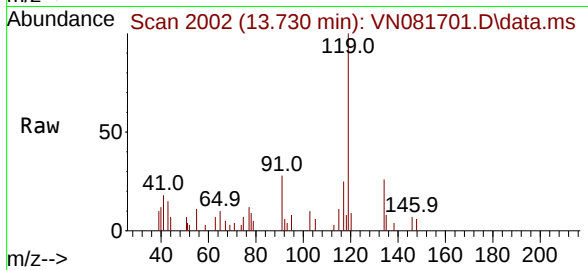
Tgt Ion:105 Resp: 31847
Ion Ratio Lower Upper
105 100
120 45.2 0.0 86.8





#82
p-Isopropyltoluene
Concen: 0.635 ug/l
RT: 13.730 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02

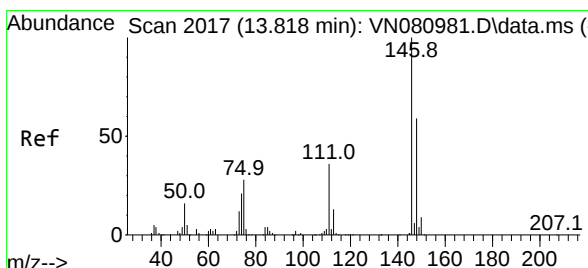
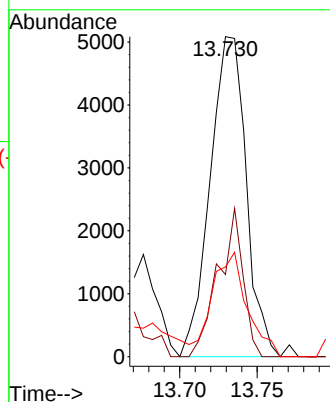
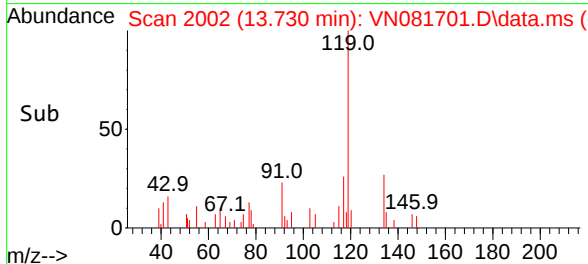
Instrument :
MSVOA_N
ClientSampleId :
240410075-02-VOA



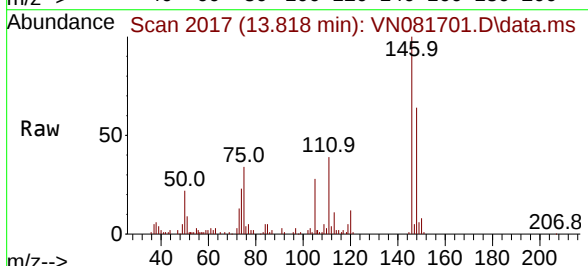
Tgt Ion:119 Resp: 8225
Ion Ratio Lower Upper
119 100
134 32.0 0.0 49.2
91 31.6 0.0 48.8

Manual Integrations
APPROVED

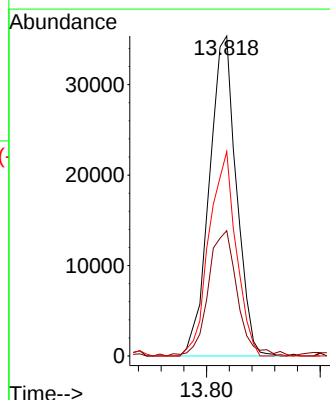
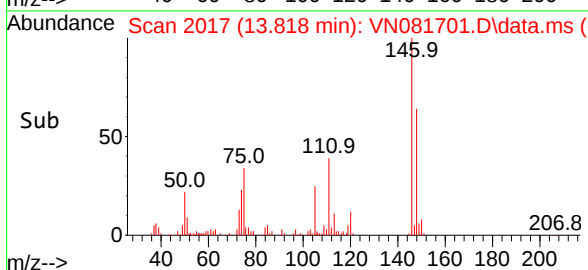
Reviewed By :John Carlone 04/12/2024
Supervised By :Mahesh Dadoda 04/12/2024

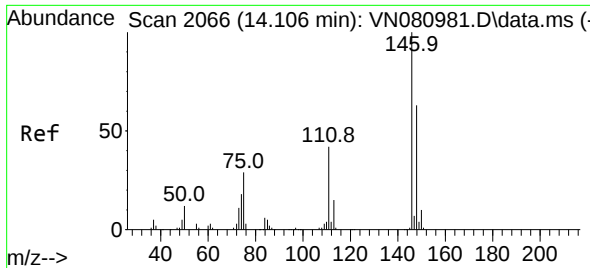


#84
1,4-Dichlorobenzene
Concen: 8.796 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. 0.006 min
Lab File: VN081701.D
Acq: 11 Apr 2024 17:02



Tgt Ion:146 Resp: 58499
Ion Ratio Lower Upper
146 100
111 41.7 21.3 63.9
148 63.6 31.9 95.5





#87

1,2-Dichlorobenzene

Concen: 0.630 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN081701.D

Acq: 11 Apr 2024 17:02

Instrument :

MSVOA_N

ClientSampleId :

240410075-02-VOA

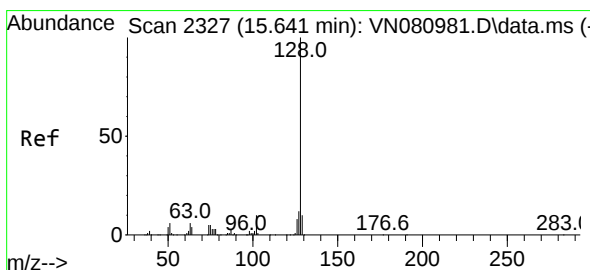
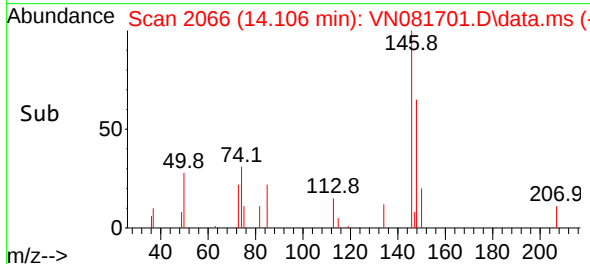
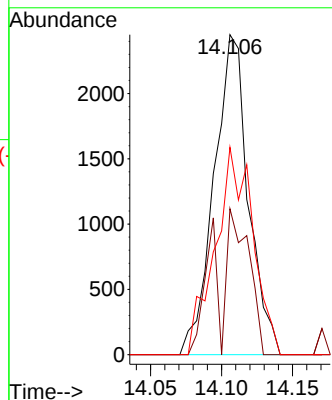
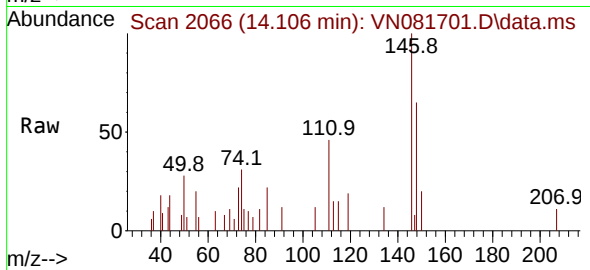
Tgt Ion:	146	Resp:	412
Ion Ratio	Lower	Upper	
146	100		
111	29.1	22.6	67.8
148	70.8	31.3	93.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/12/2024

Supervised By :Mahesh Dadoda 04/12/2024



#91

Naphthalene

Concen: 8.753 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.000 min

Lab File: VN081701.D

Acq: 11 Apr 2024 17:02

Tgt Ion:	128	Resp:	100869
Ion Ratio	Lower	Upper	
128	100		
127	14.6	10.6	16.0
129	10.6	8.6	13.0

