

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102023\
 Data File : VN079625.D
 Acq On : 20 Oct 2023 13:53
 Operator : JC\MD
 Sample : 04963-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 231018057-01-VOA

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/23/2023
 Supervised By :Semsettin Yesilyurt 10/24/2023

Quant Time: Oct 20 23:49:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 18 02:19:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	18641	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	125925	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	154919	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	82685	31.198	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.000%			
60) 4-Bromofluorobenzene	12.853	95	67478	23.818	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 79.400%			
63) Toluene-d8	10.571	98	186560	28.103	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 93.667%			
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.971	74	14292	8.546	ug/l	93
23) tert-Butyl Alcohol	5.524	59	119434	246.317	ug/l #	100
34) Benzene	8.612	78	19611	1.754	ug/l #	69
62) Toluene	10.635	91	17053	1.440	ug/l	94
64) Chlorobenzene	11.894	112	62726	9.135	ug/l	95
66) Ethyl Benzene	11.971	91	126069	10.334	ug/l	97
67) m/p-Xylenes	12.071	106	22390	4.962	ug/l	100
68) o-Xylene	12.406	106	18305	4.244	ug/l	99
70) Isopropylbenzene	12.700	105	11774	1.064	ug/l	99
74) n-propylbenzene	13.035	91	6786m	0.527	ug/l	
76) 1,3,5-Trimethylbenzene	13.176	105	5064	0.560	ug/l	90
80) 1,2,4-Trimethylbenzene	13.488	105	17781	2.028	ug/l	97
84) 1,4-Dichlorobenzene	13.818	146	25115	6.127	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	2031	0.478	ug/l	92

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

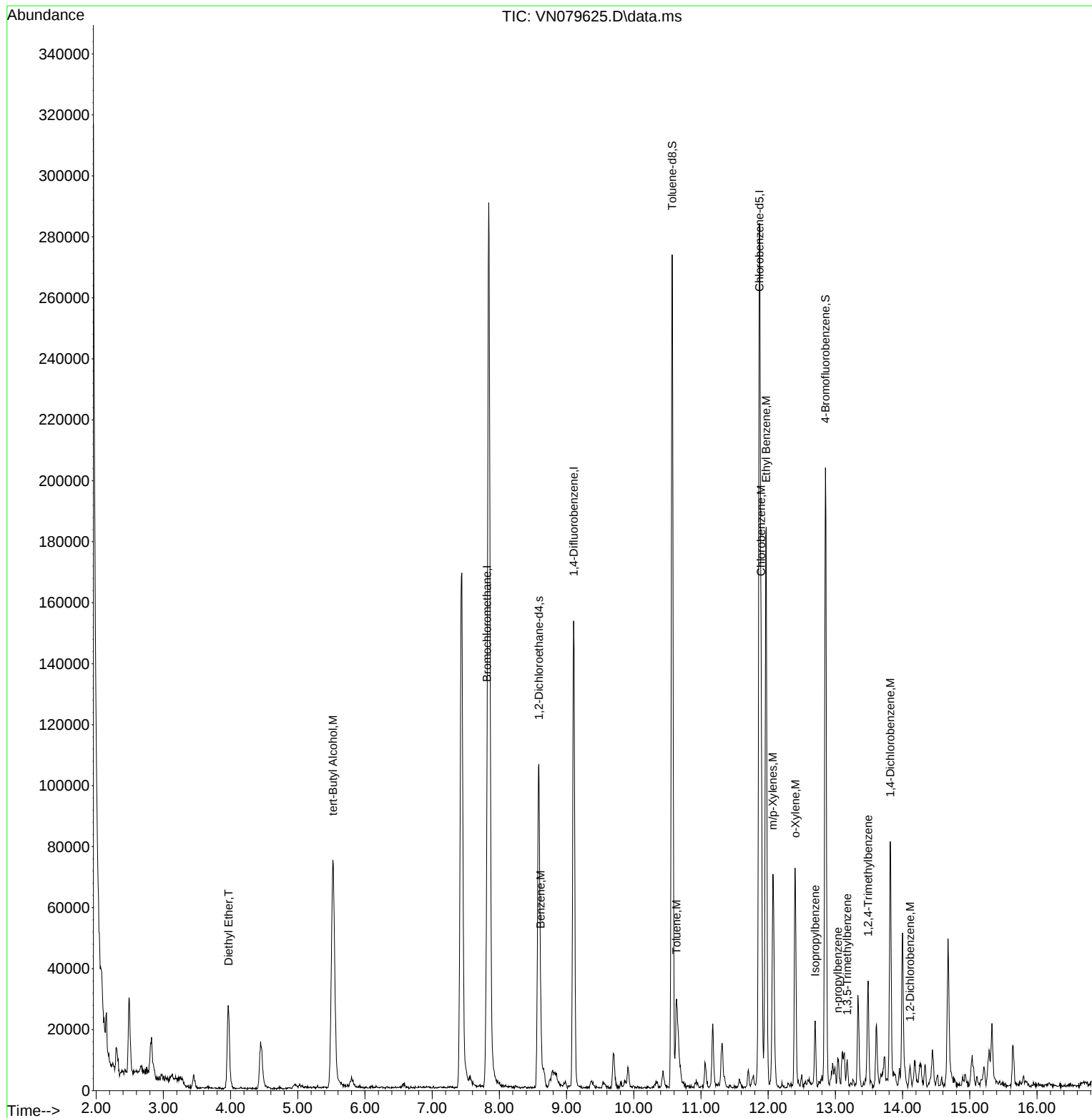
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102023\
Data File : VN079625.D
Acq On : 20 Oct 2023 13:53
Operator : JC\MD
Sample : 04963-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

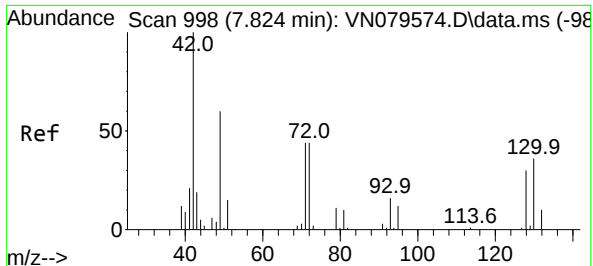
Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/23/2023
Supervised By : Semsettin Yesilyurt 10/24/2023

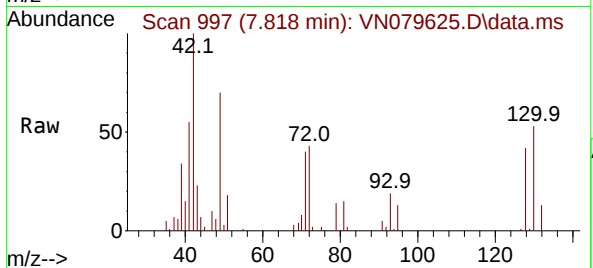
Quant Time: Oct 20 23:49:03 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 18 02:19:15 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

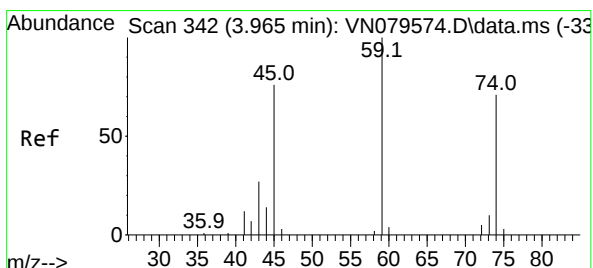
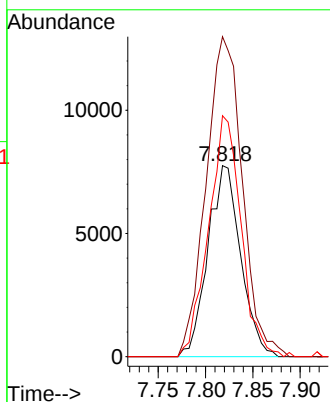
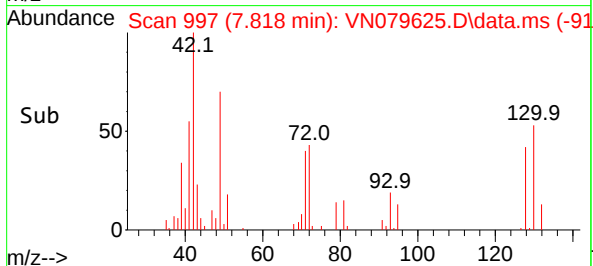
Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA



Tgt Ion:128 Resp: 1864
Ion Ratio Lower Upper
128 100
49 185.0 0.0 468.5
130 125.2 0.0 320.7

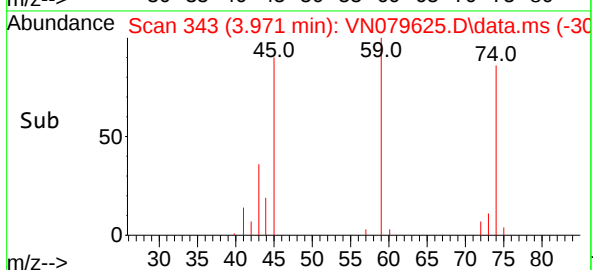
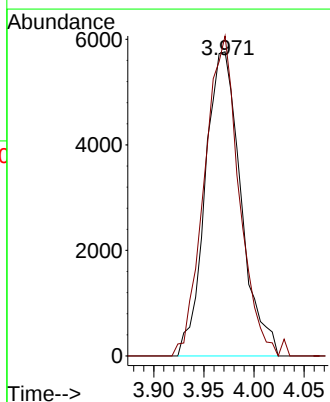
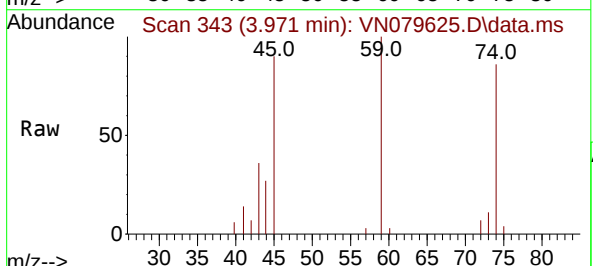
Manual Integrations
APPROVED

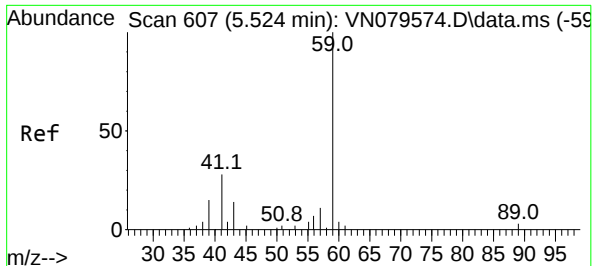
Reviewed By :John Carlone 10/23/2023
Supervised By :Semsettin Yesilyurt 10/24/2023



#8
Diethyl Ether
Concen: 8.546 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.006 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

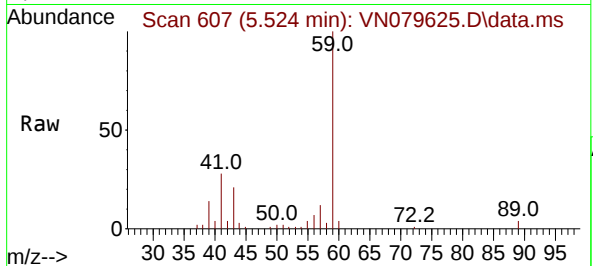
Tgt Ion: 74 Resp: 14292
Ion Ratio Lower Upper
74 100
45 102.1 19.0 171.0





#23
tert-Butyl Alcohol
Concen: 246.317 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

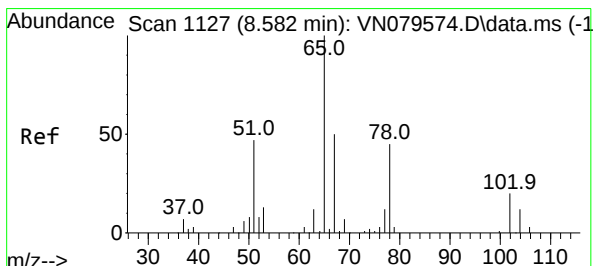
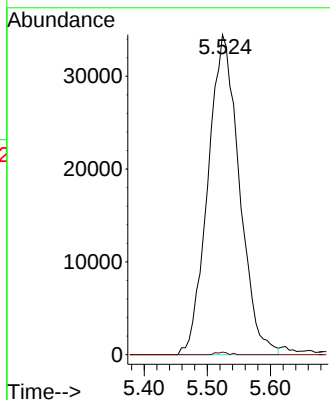
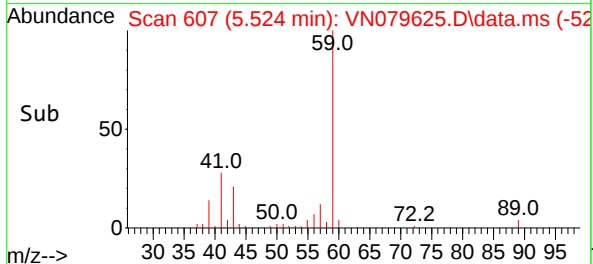
Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA



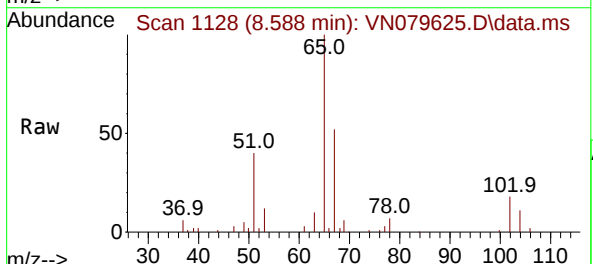
Tgt Ion: 59 Resp: 119434
Ion Ratio Lower Upper
59 100
52 0.3 0.0 0.0

Manual Integrations
APPROVED

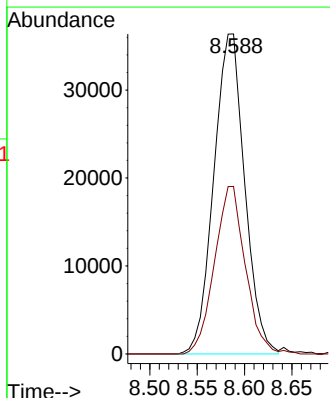
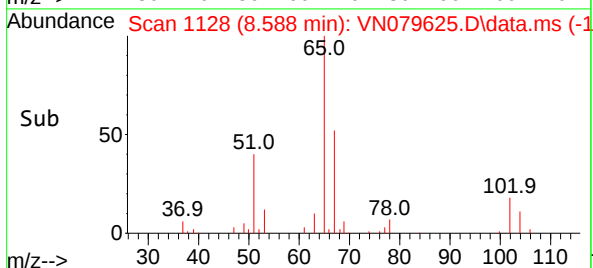
Reviewed By :John Carlone 10/23/2023
Supervised By :Semsettin Yesilyurt 10/24/2023

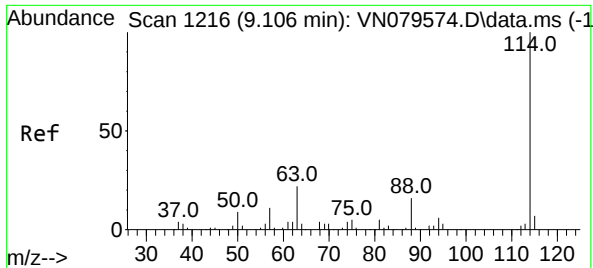


#27
1,2-Dichloroethane-d4
Concen: 31.198 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53



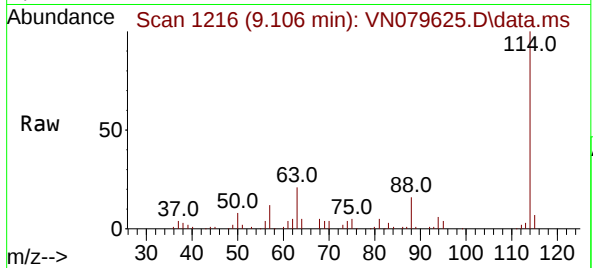
Tgt Ion: 65 Resp: 82685
Ion Ratio Lower Upper
65 100
67 52.0 42.1 63.1





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

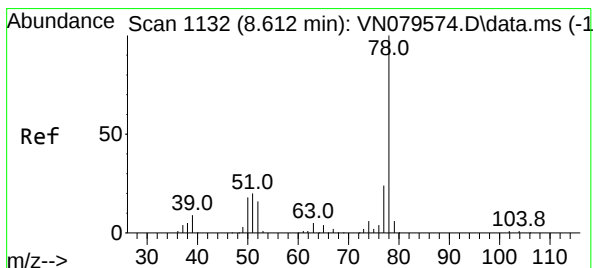
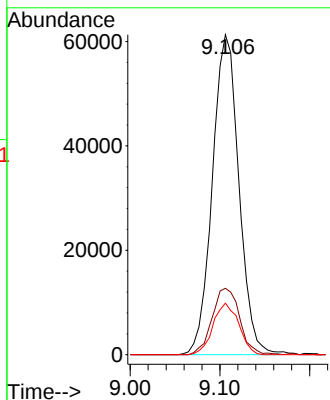
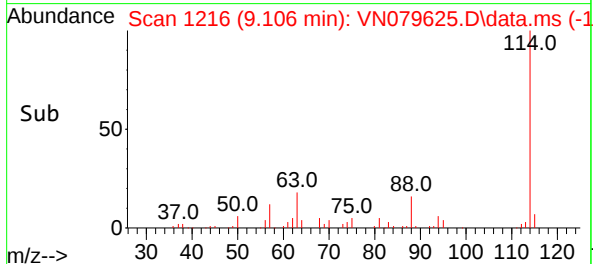
Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA



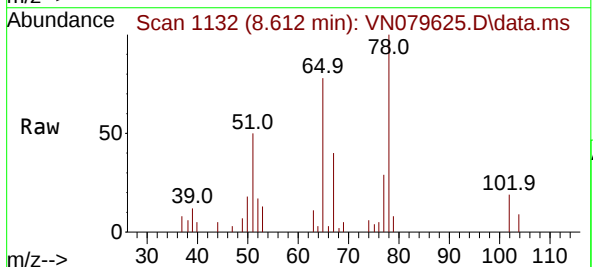
Tgt Ion: 114 Resp: 12592
Ion Ratio Lower Upper
114 100
63 21.3 18.1 27.1
88 15.6 12.2 18.2

Manual Integrations
APPROVED

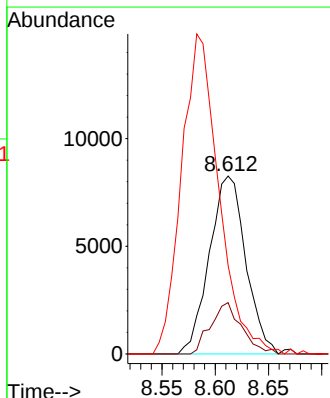
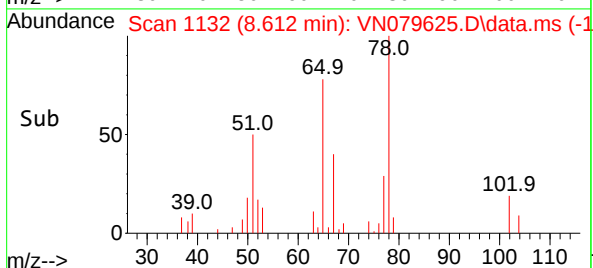
Reviewed By :John Carlone 10/23/2023
Supervised By :Semsettin Yesilyurt 10/24/2023

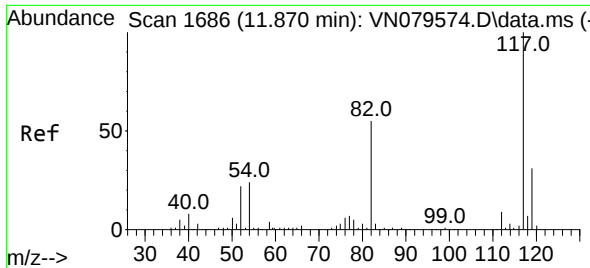


#34
Benzene
Concen: 1.754 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53



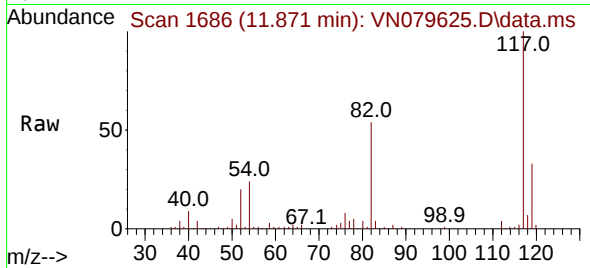
Tgt Ion: 78 Resp: 19611
Ion Ratio Lower Upper
78 100
77 28.9 19.7 29.5
51 47.1 15.8 23.6





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

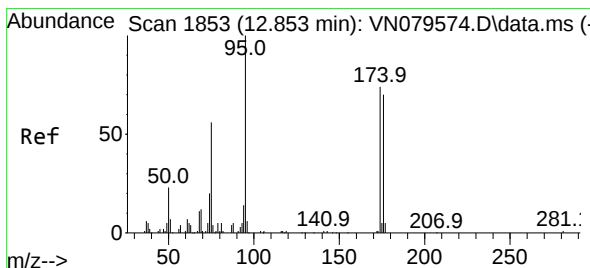
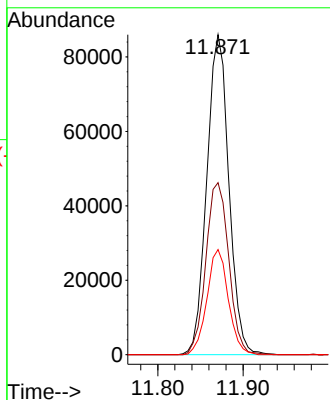
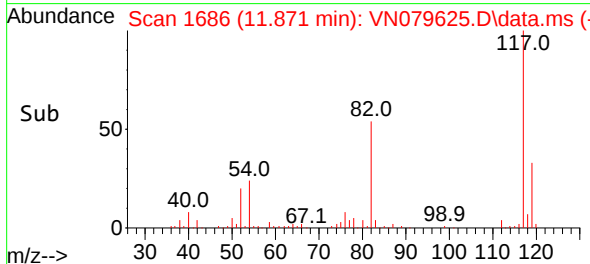
Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA



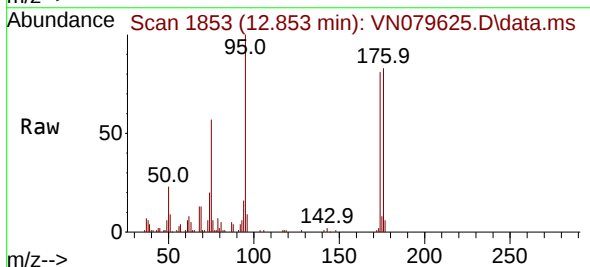
Tgt Ion: 117 Resp: 154919
Ion Ratio Lower Upper
117 100
82 55.7 46.2 69.2
119 31.9 25.2 37.8

Manual Integrations
APPROVED

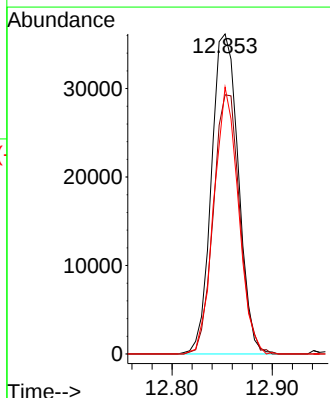
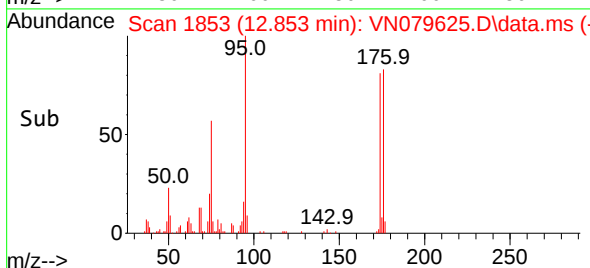
Reviewed By :John Carlone 10/23/2023
Supervised By :Semsettin Yesilyurt 10/24/2023

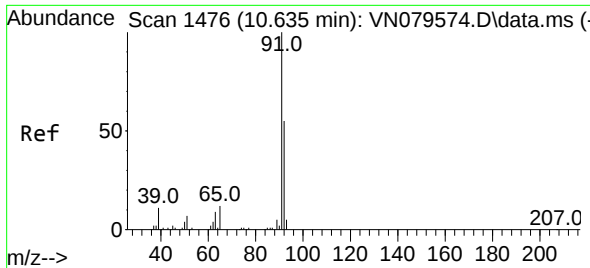


#60
4-Bromofluorobenzene
Concen: 23.818 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53



Tgt Ion: 95 Resp: 67478
Ion Ratio Lower Upper
95 100
174 79.2 60.5 90.7
176 76.1 57.2 85.8





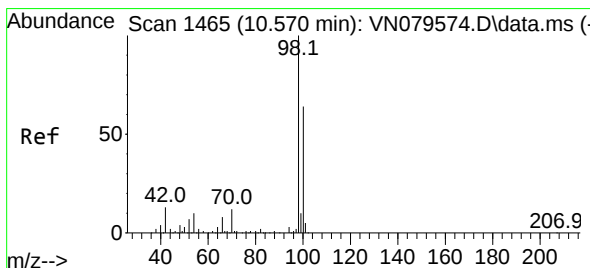
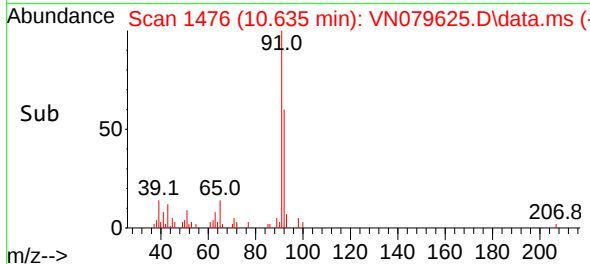
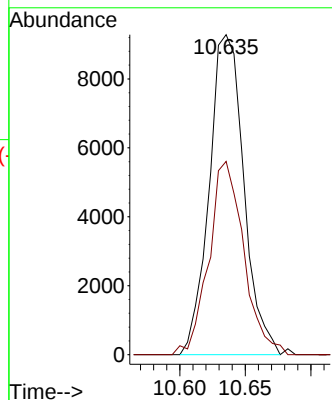
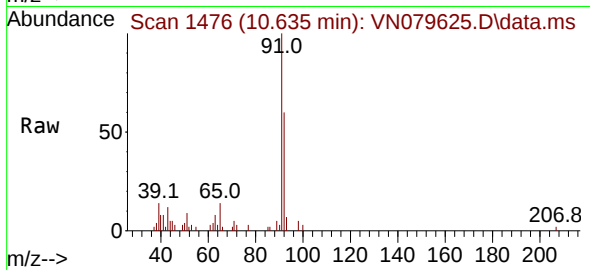
#62
Toluene
Concen: 1.440 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA

Tgt Ion: 91 Resp: 1705
Ion Ratio Lower Upper
91 100
92 60.9 45.3 67.9

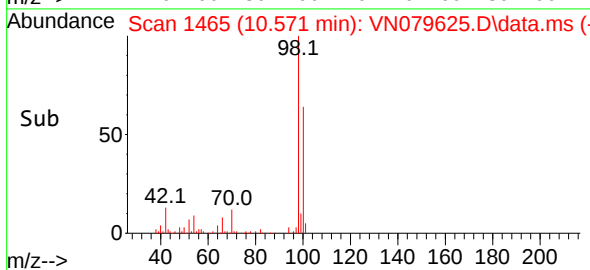
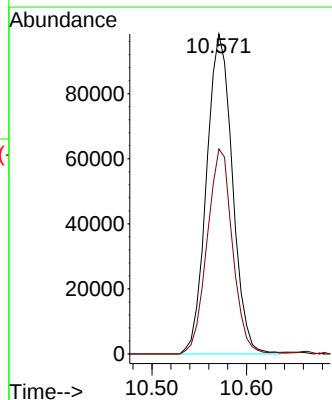
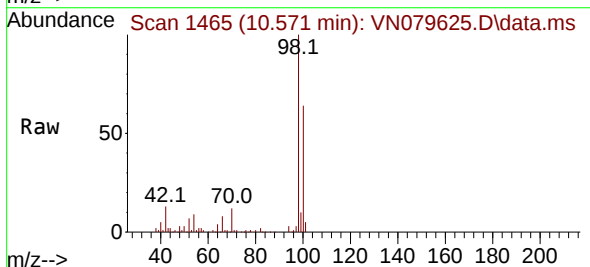
Manual Integrations
APPROVED

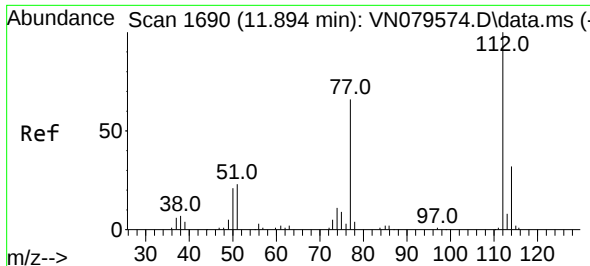
Reviewed By :John Carlone 10/23/2023
Supervised By :Semsettin Yesilyurt 10/24/2023



#63
Toluene-d8
Concen: 28.103 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

Tgt Ion: 98 Resp: 186560
Ion Ratio Lower Upper
98 100
100 62.9 51.6 77.4





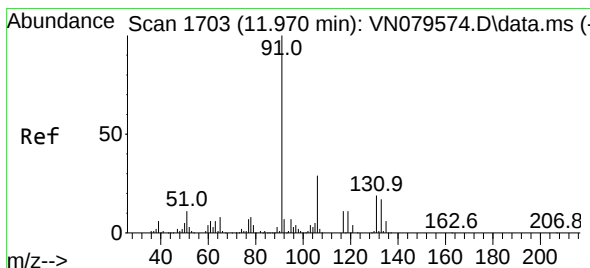
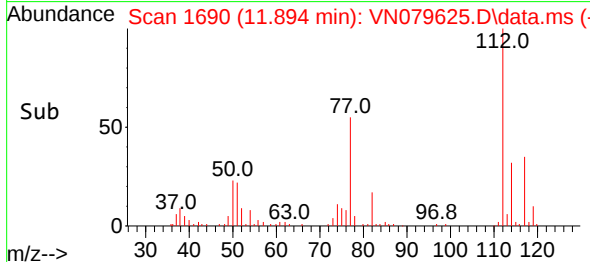
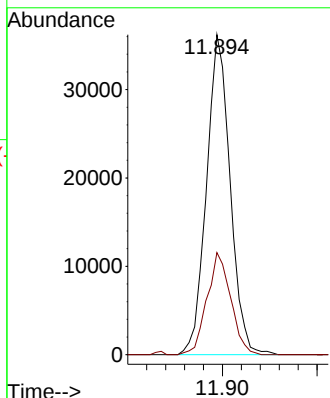
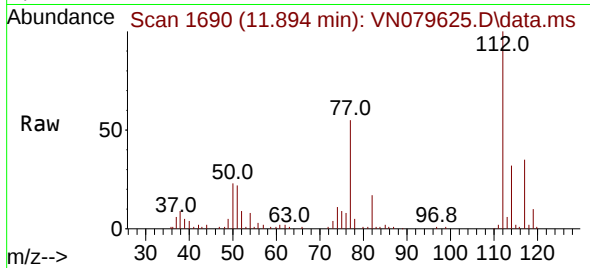
#64
Chlorobenzene
Concen: 9.135 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA

Tgt Ion:112 Resp: 62720
Ion Ratio Lower Upper
112 100
114 31.9 28.1 42.1

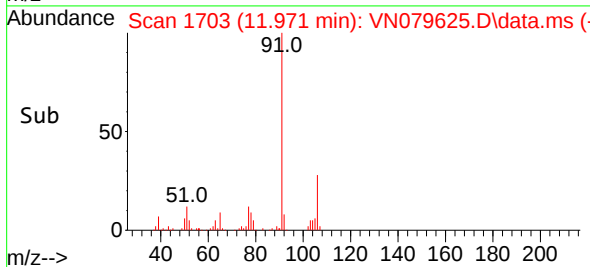
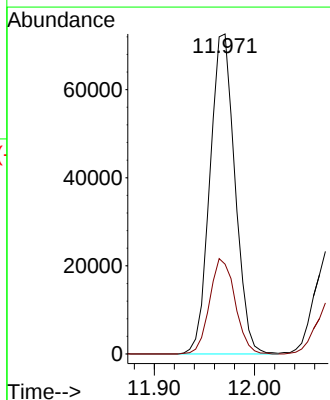
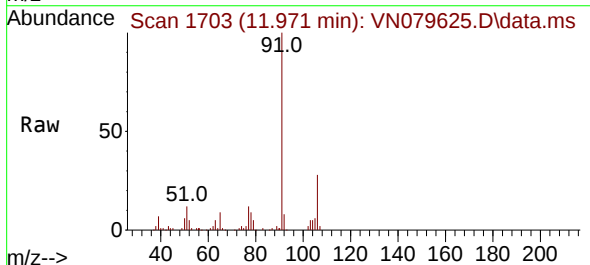
Manual Integrations
APPROVED

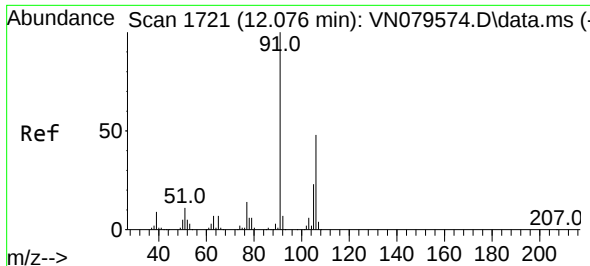
Reviewed By :John Carlone 10/23/2023
Supervised By :Semsettin Yesilyurt 10/24/2023



#66
Ethyl Benzene
Concen: 10.334 ug/l
RT: 11.971 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

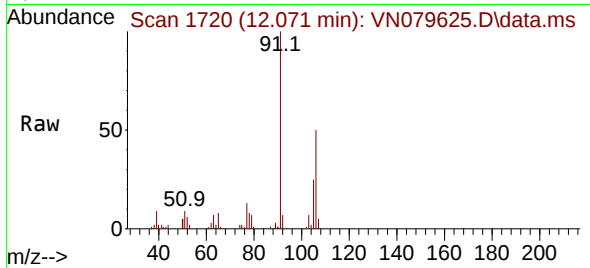
Tgt Ion: 91 Resp: 126069
Ion Ratio Lower Upper
91 100
106 28.1 23.8 35.8





#67
m/p-Xylenes
Concen: 4.962 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.006 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

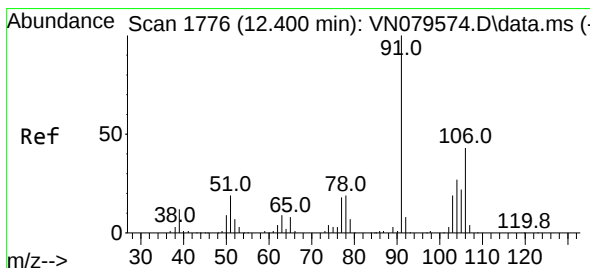
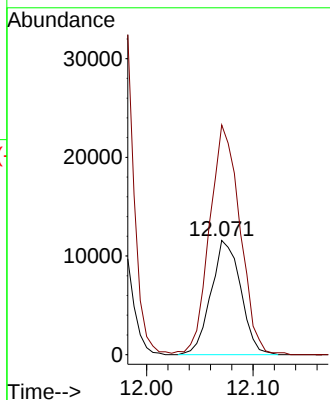
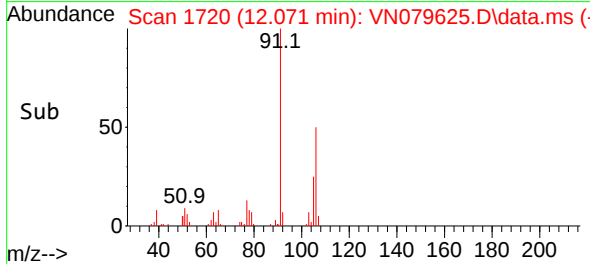
Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA



Tgt Ion:106 Resp: 22390
Ion Ratio Lower Upper
106 100
91 202.8 161.8 242.6

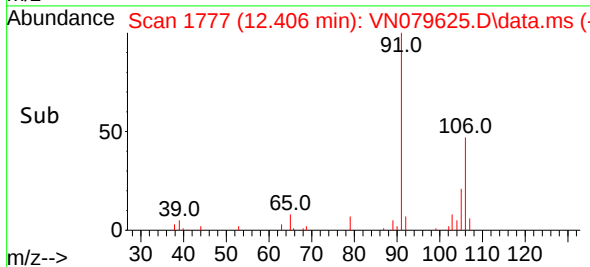
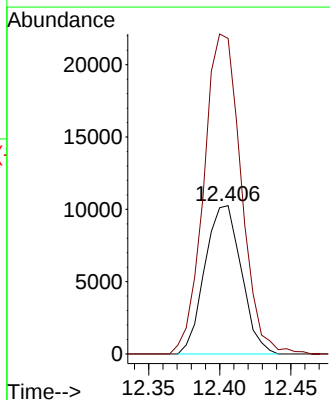
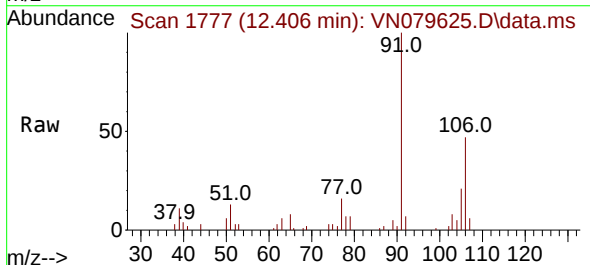
Manual Integrations
APPROVED

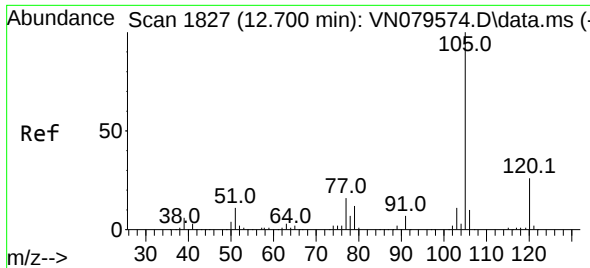
Reviewed By :John Carlone 10/23/2023
Supervised By :Semsettin Yesilyurt 10/24/2023



#68
o-Xylene
Concen: 4.244 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

Tgt Ion:106 Resp: 18305
Ion Ratio Lower Upper
106 100
91 220.7 109.9 329.7





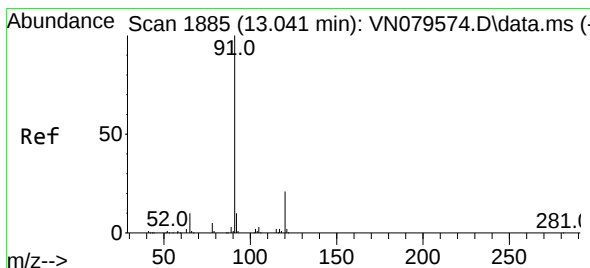
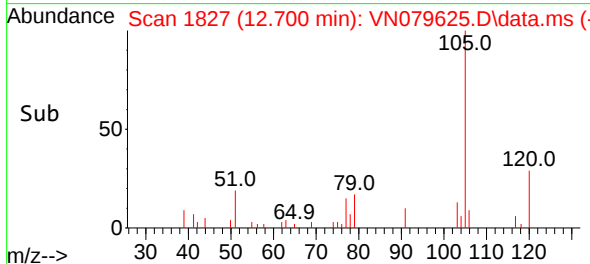
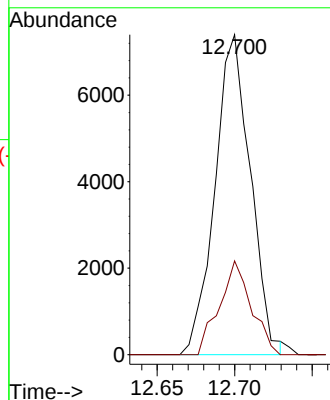
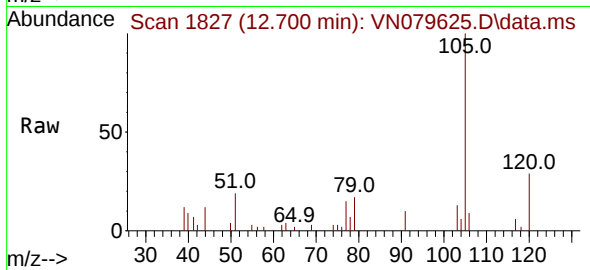
#70
Isopropylbenzene
Concen: 1.064 ug/l
RT: 12.700 min Scan# 11774
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA

Tgt Ion:105 Resp: 11774
Ion Ratio Lower Upper
105 100
120 26.3 18.1 33.5

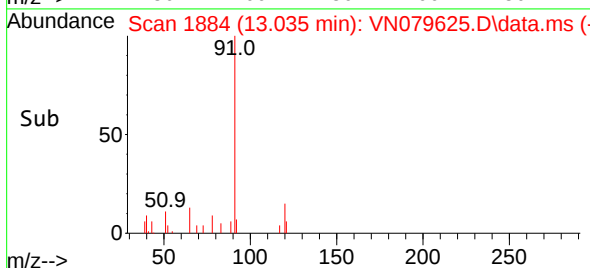
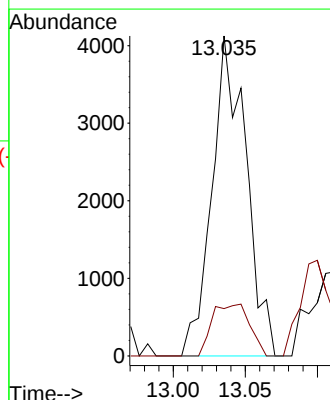
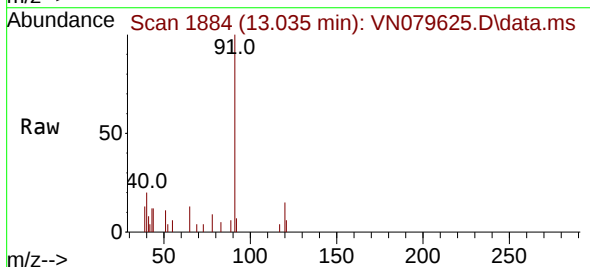
Manual Integrations
APPROVED

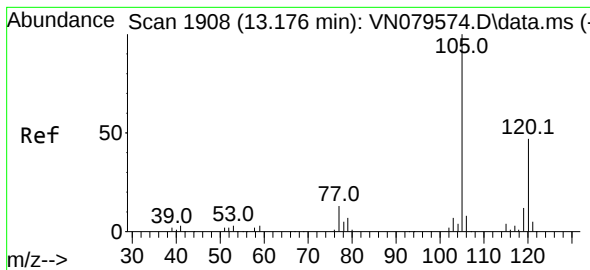
Reviewed By :John Carlone 10/23/2023
Supervised By :Semsettin Yesilyurt 10/24/2023



#74
n-propylbenzene
Concen: 0.527 ug/l m
RT: 13.035 min Scan# 1884
Delta R.T. -0.006 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

Tgt Ion: 91 Resp: 6786
Ion Ratio Lower Upper
91 100
120 7.8 0.0 42.0





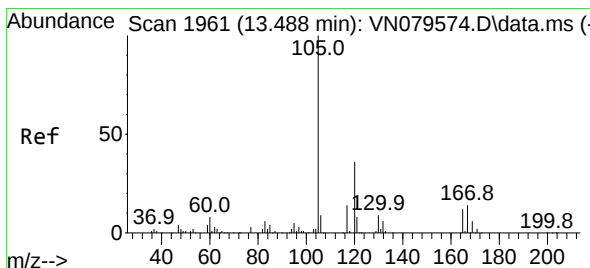
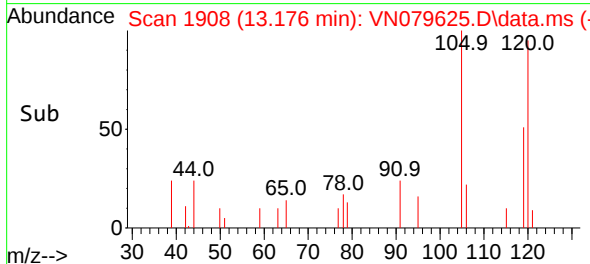
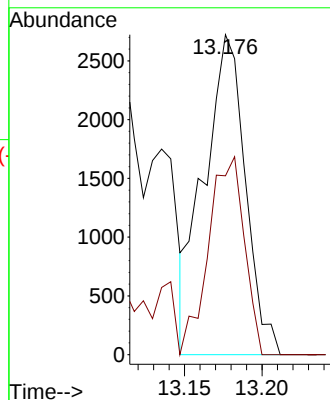
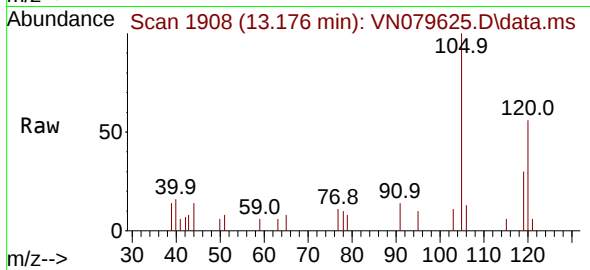
#76
 1,3,5-Trimethylbenzene
 Concen: 0.560 ug/l
 RT: 13.176 min Scan# 1908
 Delta R.T. 0.000 min
 Lab File: VN079625.D
 Acq: 20 Oct 2023 13:53

Instrument :
 MSVOA_N
 ClientSampleId :
 231018057-01-VOA

Tgt Ion:105 Resp: 5064
 Ion Ratio Lower Upper
 105 100
 120 53.3 0.0 93.2

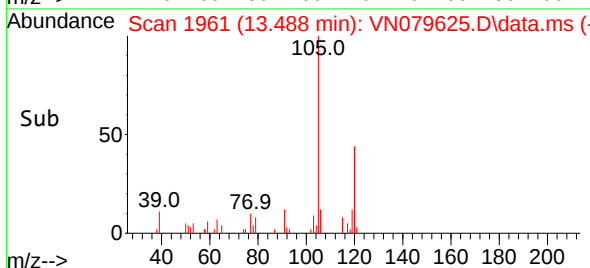
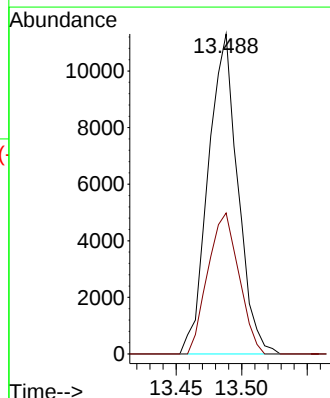
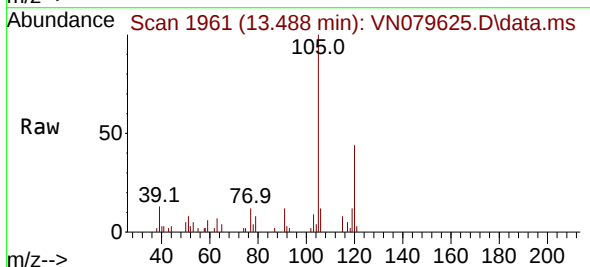
Manual Integrations
 APPROVED

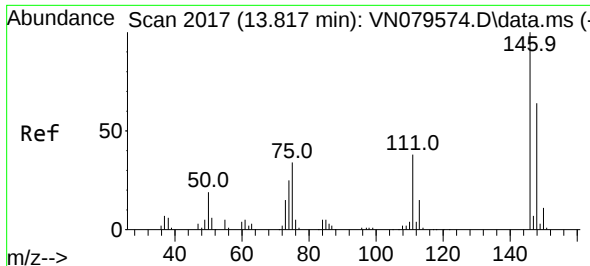
Reviewed By :John Carlone 10/23/2023
 Supervised By :Semsettin Yesilyurt 10/24/2023



#80
 1,2,4-Trimethylbenzene
 Concen: 2.028 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. 0.000 min
 Lab File: VN079625.D
 Acq: 20 Oct 2023 13:53

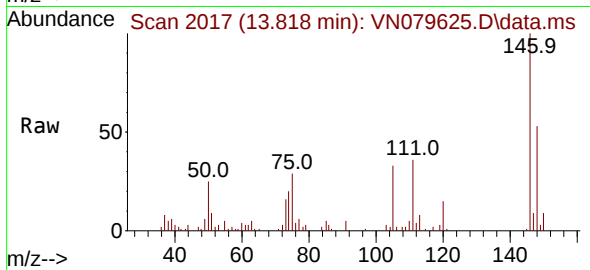
Tgt Ion:105 Resp: 17781
 Ion Ratio Lower Upper
 105 100
 120 46.1 0.0 88.6





#84
1,4-Dichlorobenzene
Concen: 6.127 ug/l
RT: 13.818 min Scan# 2017
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53

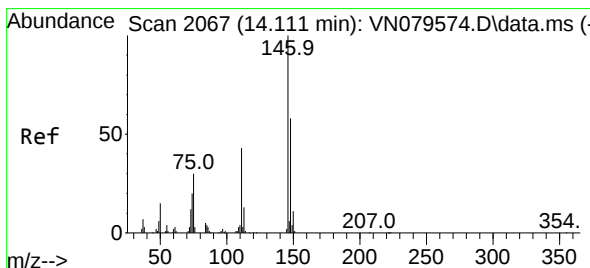
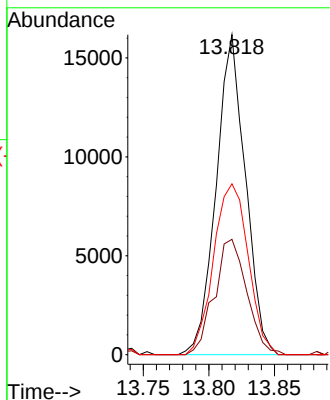
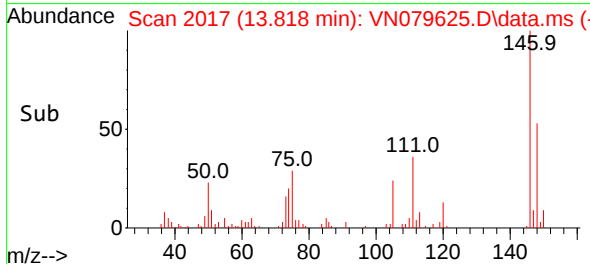
Instrument :
MSVOA_N
ClientSampleId :
231018057-01-VOA



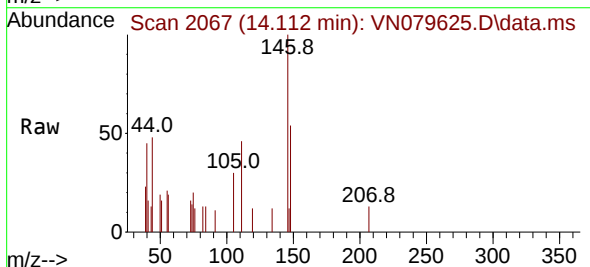
Tgt Ion:146 Resp: 2511
Ion Ratio Lower Upper
146 100
111 40.1 19.9 59.7
148 63.1 32.6 97.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/23/2023
Supervised By :Semsettin Yesilyurt 10/24/2023



#87
1,2-Dichlorobenzene
Concen: 0.478 ug/l
RT: 14.112 min Scan# 2067
Delta R.T. 0.000 min
Lab File: VN079625.D
Acq: 20 Oct 2023 13:53



Tgt Ion:146 Resp: 2031
Ion Ratio Lower Upper
146 100
111 38.0 22.0 66.0
148 68.2 31.1 93.5

