

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081922\
 Data File : VN074026.D
 Acq On : 19 Aug 2022 14:59
 Operator : JC\MD
 Sample : N4246-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 220817015-02-VOA

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/22/2022
 Supervised By :Mahesh Dadoda 08/22/2022

Quant Time: Aug 20 02:46:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 18:07:26 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.586	128	70502	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	375760	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	334470	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	176721	28.991	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.633%		
60) 4-Bromofluorobenzene	12.668	95	170132	28.727	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.767%		
63) Toluene-d8	10.380	98	539299	28.635	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.467%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.757	74	5592m	1.817	ug/l	
15) Acetone	4.222	58	93510	97.155	ug/l	89
16) Carbon Disulfide	4.457	76	11094	0.920	ug/l #	91
24) Methyl tert-Butyl Ether	5.534	73	26694m	1.716	ug/l	
30) 2-Butanone	7.251	43	325688	67.103	ug/l #	88
34) Benzene	8.392	78	68494	3.015	ug/l #	72
45) 1,4-Dioxane	9.510	88	9058	59.287	ug/l #	87
58) 4-Methyl-2-Pentanone	10.269	43	18798	2.174	ug/l #	88
62) Toluene	10.445	91	30580	1.315	ug/l	91
64) Chlorobenzene	11.710	112	13047	0.939	ug/l	92
66) Ethyl Benzene	11.786	91	48393	1.946	ug/l	95
67) m/p-Xylenes	11.892	106	46977	4.943	ug/l	97
68) o-Xylene	12.221	106	32737	3.468	ug/l	97
70) Isopropylbenzene	12.515	105	12671	0.525	ug/l	96
76) 1,3,5-Trimethylbenzene	13.004	105	9726	0.481	ug/l	98
80) 1,2,4-Trimethylbenzene	13.310	105	36195	1.808	ug/l #	78
84) 1,4-Dichlorobenzene	13.633	146	29797	2.815	ug/l	96
91) Naphthalene	15.433	128	162291	8.094	ug/l	100

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

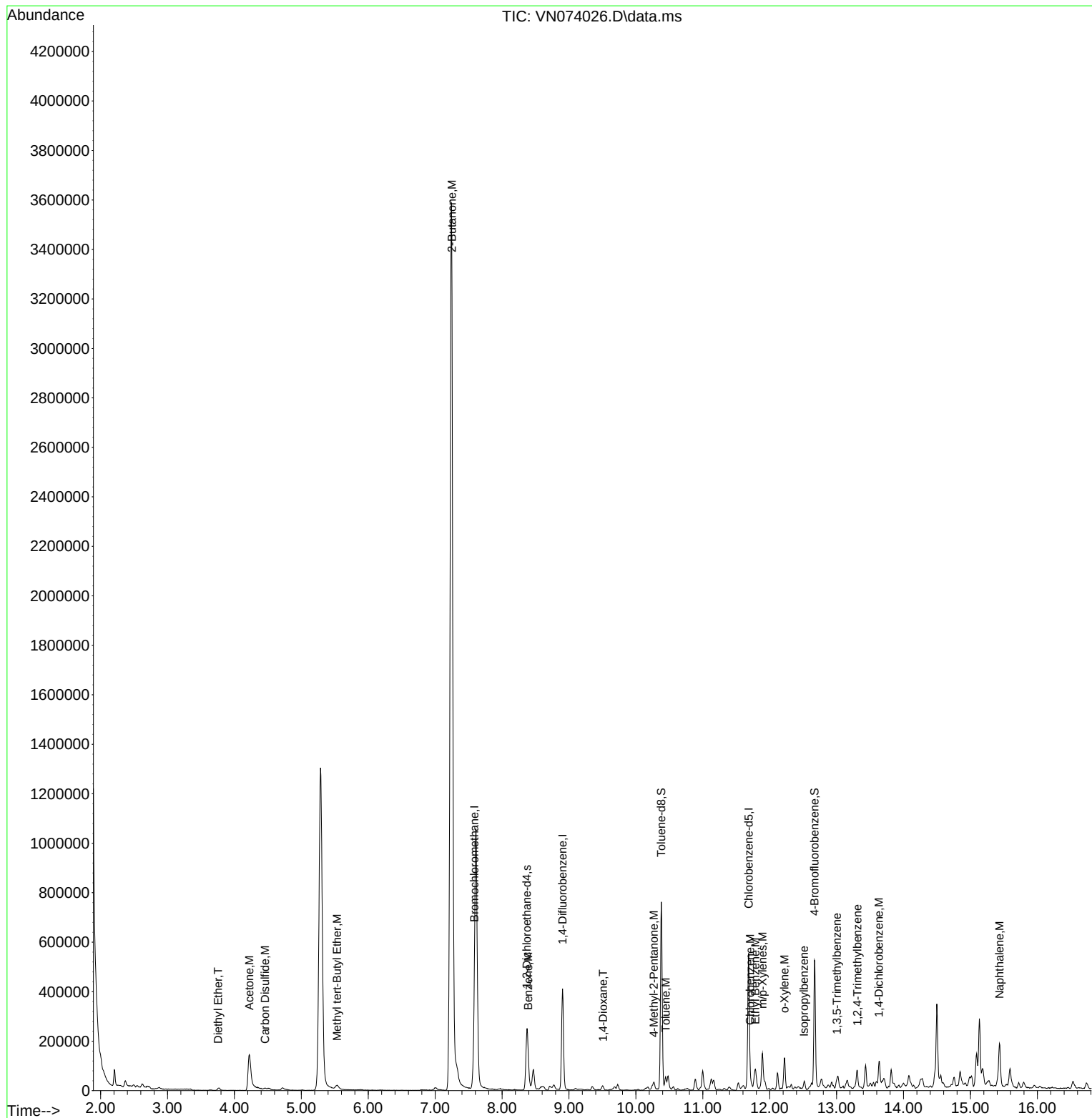
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081922\
Data File : VN074026.D
Acq On : 19 Aug 2022 14:59
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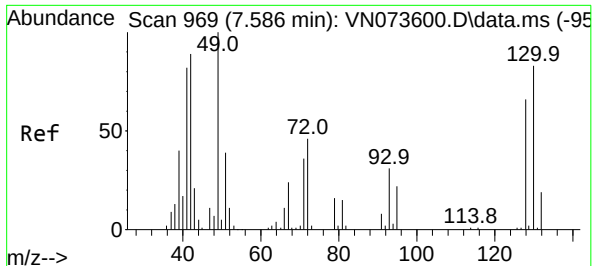
Instrument :
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220817015-02-VOA

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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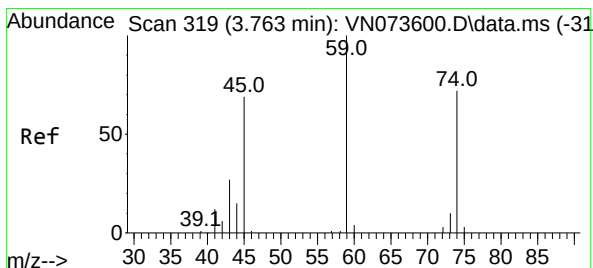
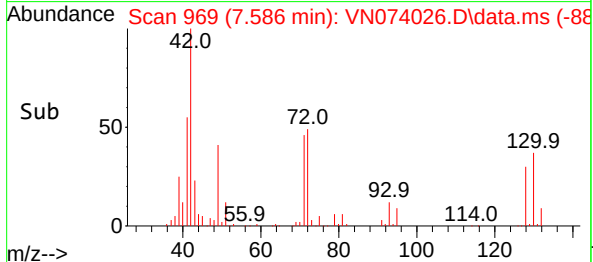
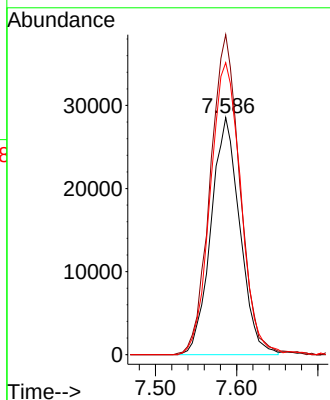
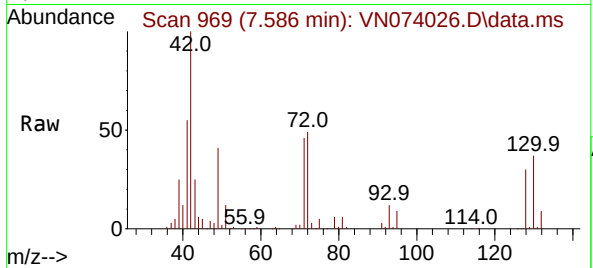
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.586 min Scan# 969
Delta R.T. 0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

Instrument :
MSVOA_N
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220817015-02-VOA

Tgt Ion:128 Resp: 70502
Ion Ratio Lower Upper
128 100
49 138.3 0.0 392.3
130 130.3 0.0 320.2

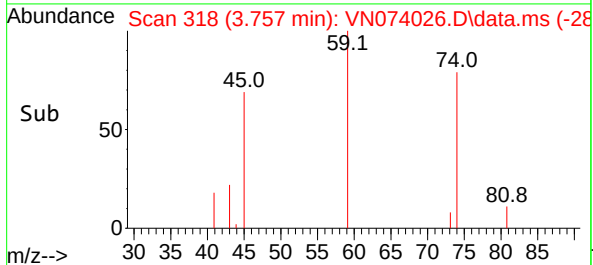
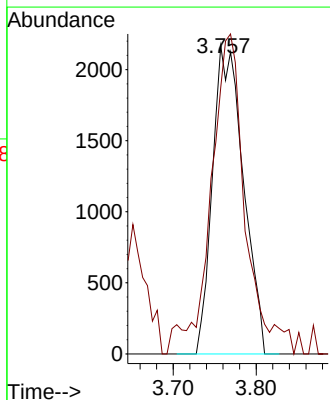
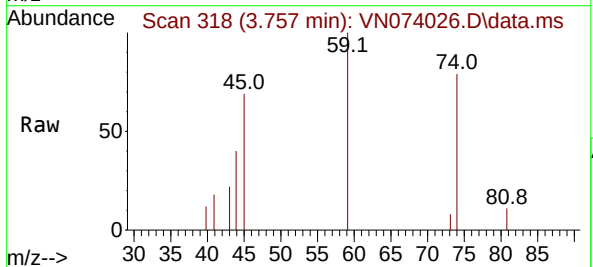
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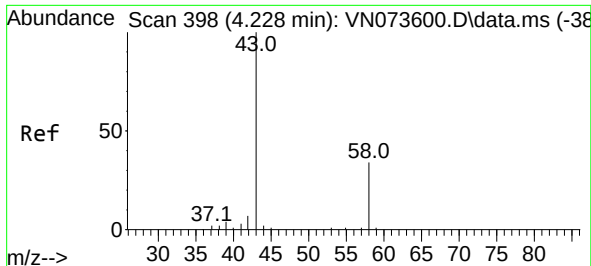
Reviewed By :Semsettin Yesilyurt 08/22/2022
Supervised By :Mahesh Dadoda 08/22/2022



#8
Diethyl Ether
Concen: 1.817 ug/l m
RT: 3.757 min Scan# 318
Delta R.T. -0.006 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

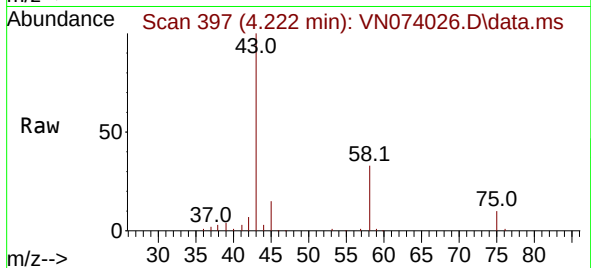
Tgt Ion: 74 Resp: 5592
Ion Ratio Lower Upper
74 100
45 95.4 17.6 158.8





#15
Acetone
Concen: 97.155 ug/l
RT: 4.222 min Scan# 398
Delta R.T. -0.006 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

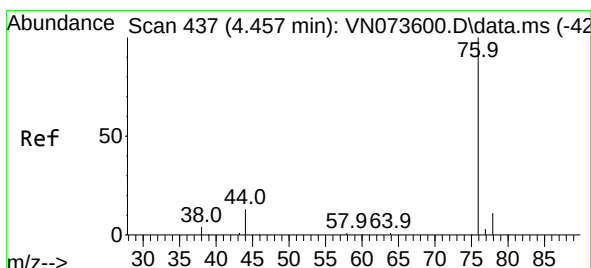
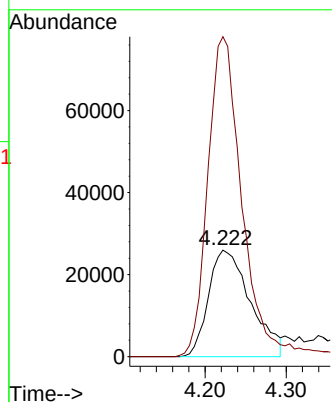
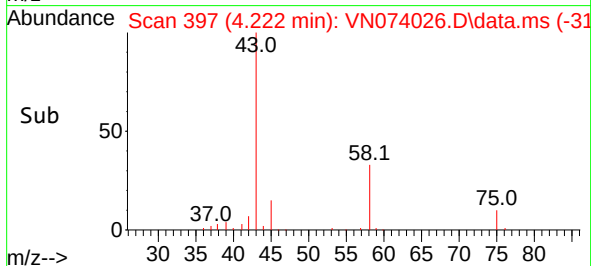
Instrument :
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220817015-02-VOA



Tgt Ion: 58 Resp: 93510
Ion Ratio Lower Upper
58 100
43 298.8 256.6 384.8

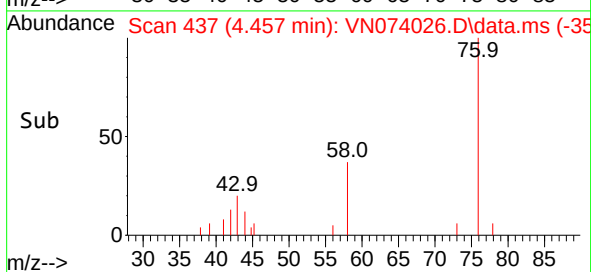
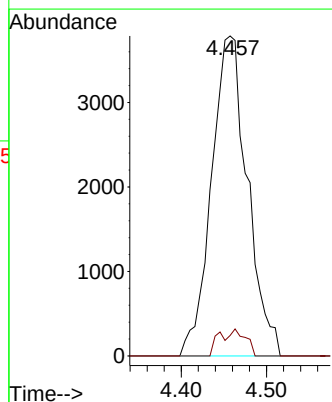
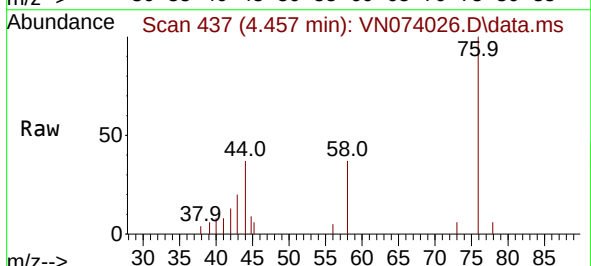
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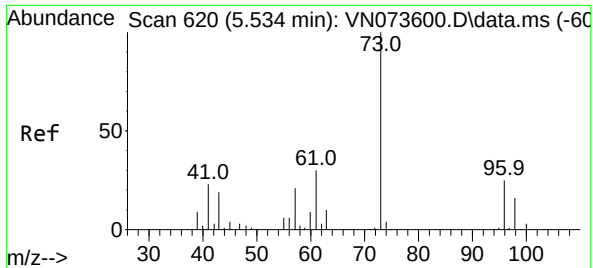
Reviewed By :Semsettin Yesilyurt 08/22/2022
Supervised By :Mahesh Dadoda 08/22/2022



#16
Carbon Disulfide
Concen: 0.920 ug/l
RT: 4.457 min Scan# 437
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

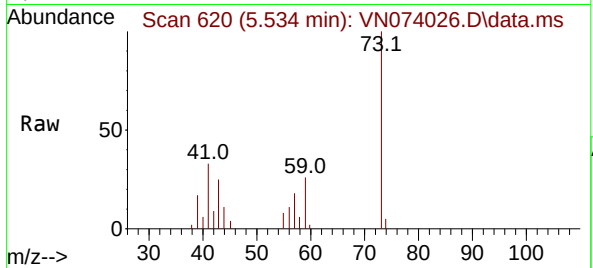
Tgt Ion: 76 Resp: 11094
Ion Ratio Lower Upper
76 100
78 6.4 7.8 11.8#





#24
Methyl tert-Butyl Ether
Concen: 1.716 ug/l m
RT: 5.534 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

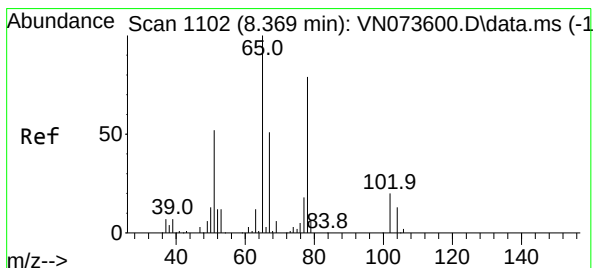
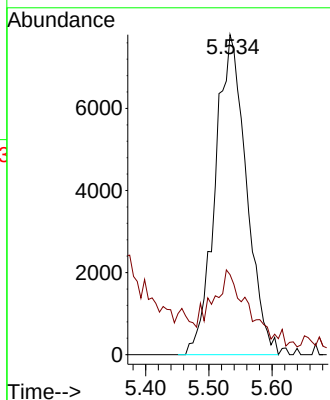
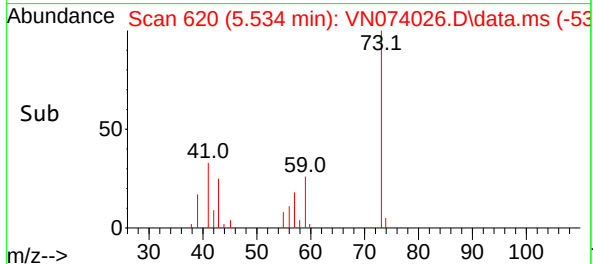
Instrument :
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ClientSampleId :
220817015-02-VOA



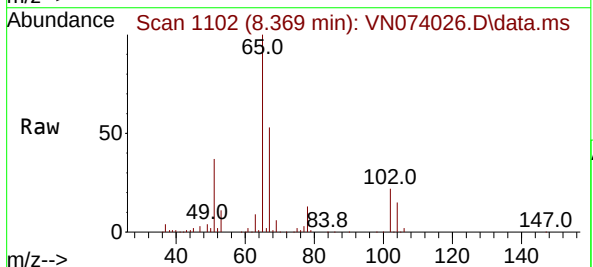
Tgt Ion: 73 Resp: 26694
Ion Ratio Lower Upper
73 100
43 3.6 18.1 27.1

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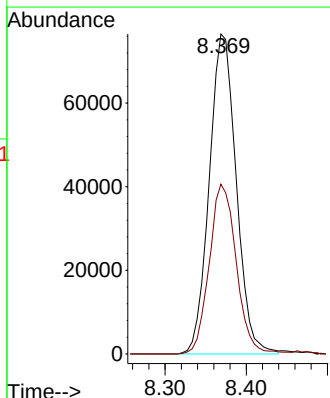
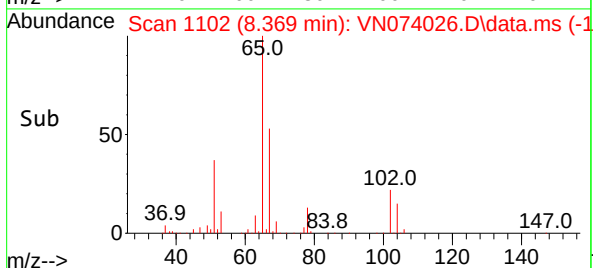
Reviewed By :Semsettin Yesilyurt 08/22/2022
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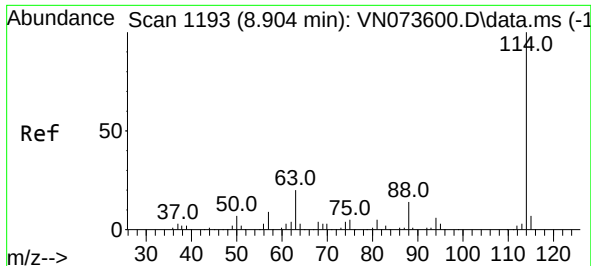


#27
1,2-Dichloroethane-d4
Concen: 28.991 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59



Tgt Ion: 65 Resp: 176721
Ion Ratio Lower Upper
65 100
67 52.7 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074026.D

Acq: 19 Aug 2022 14:59

Instrument :

MSVOA_N

ClientSampleId :

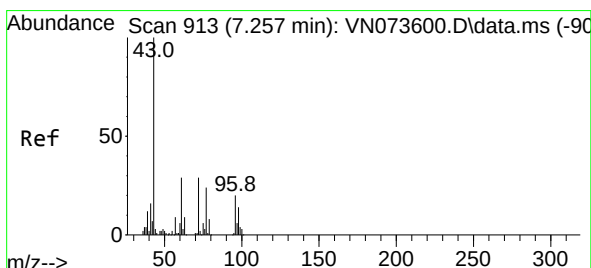
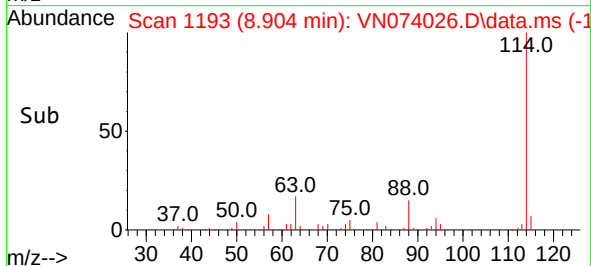
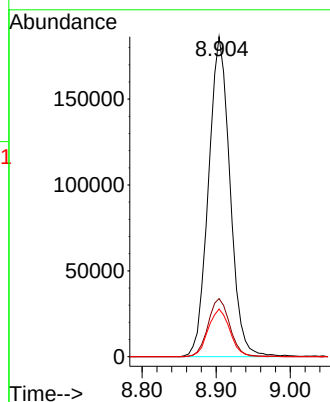
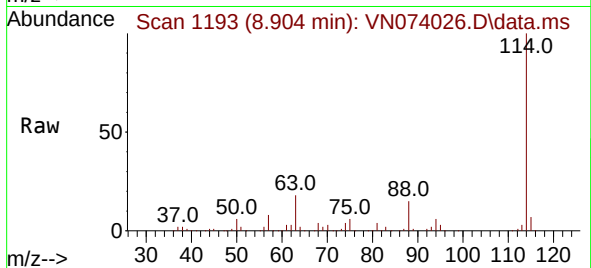
220817015-02-VOA

Tgt Ion:114	Resp:	375760
Ion Ratio	Lower	Upper
114	100	
63	18.2	15.8 23.6
88	15.1	11.6 17.4

Manual Integrations

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#30

2-Butanone

Concen: 67.103 ug/l

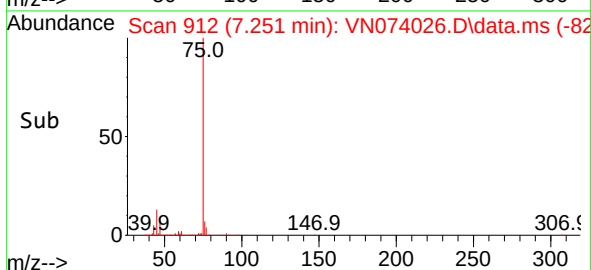
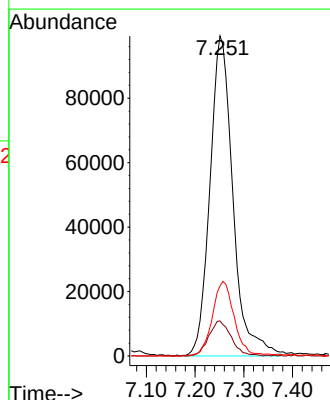
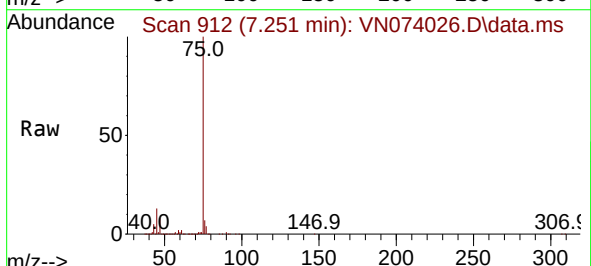
RT: 7.251 min Scan# 912

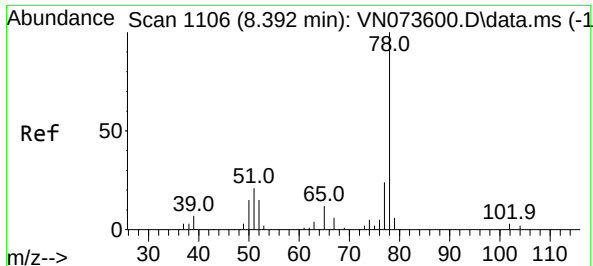
Delta R.T. -0.006 min

Lab File: VN074026.D

Acq: 19 Aug 2022 14:59

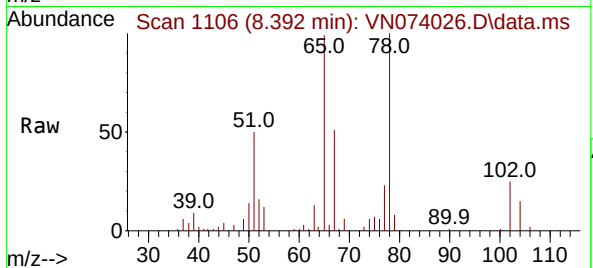
Tgt Ion: 43	Resp:	325688
Ion Ratio	Lower	Upper
43	100	
57	10.7	6.7 10.1#
72	22.0	23.2 34.8#





#34
Benzene
Concen: 3.015 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

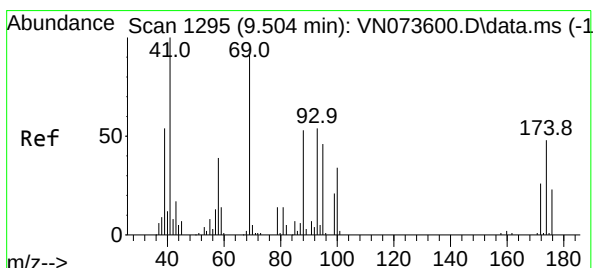
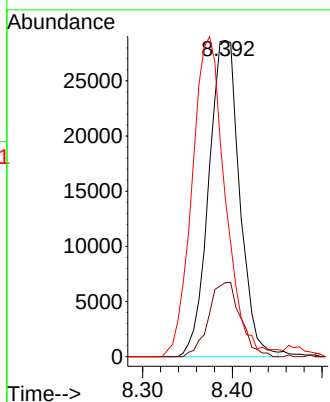
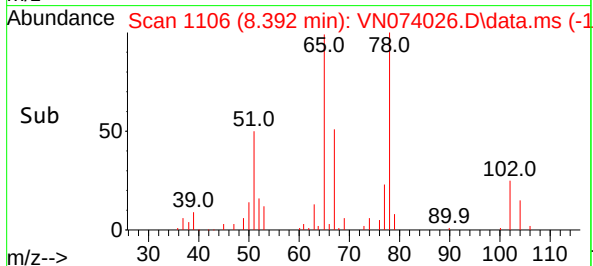
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ClientSampleId :
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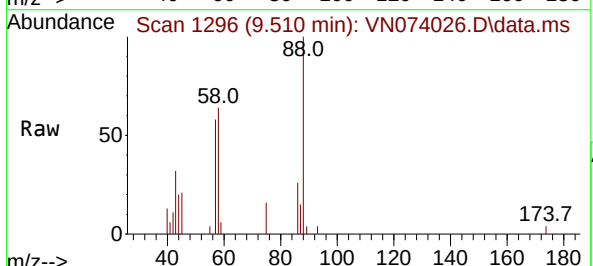
Tgt Ion: 78 Resp: 68494
Ion Ratio Lower Upper
78 100
77 23.4 19.1 28.7
51 47.6 16.0 24.0

Manual Integrations
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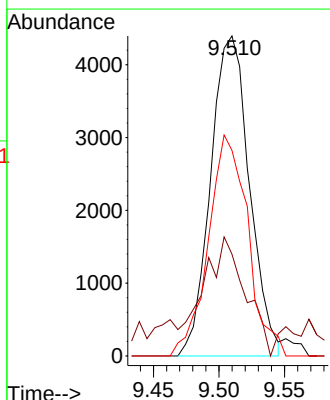
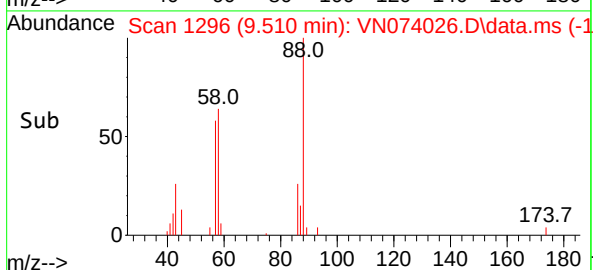
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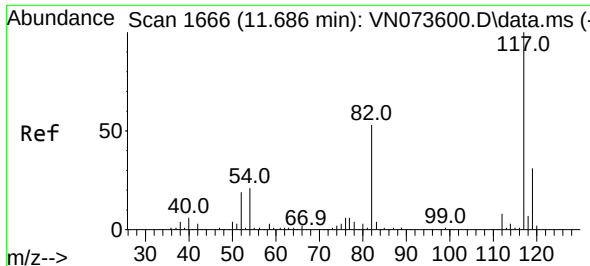


#45
1,4-Dioxane
Concen: 59.287 ug/l
RT: 9.510 min Scan# 1296
Delta R.T. 0.006 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59



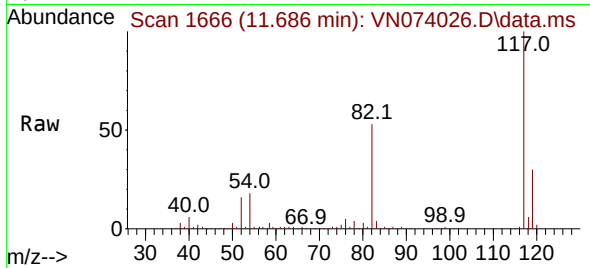
Tgt Ion: 88 Resp: 9058
Ion Ratio Lower Upper
88 100
43 40.5 25.0 37.6
58 70.1 49.4 74.2





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

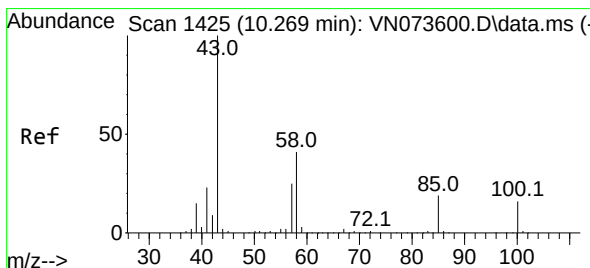
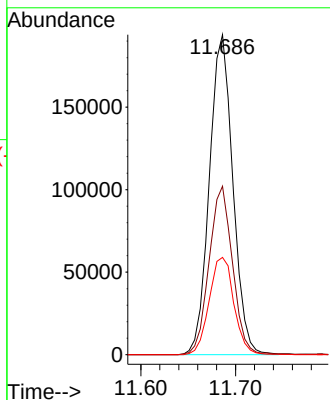
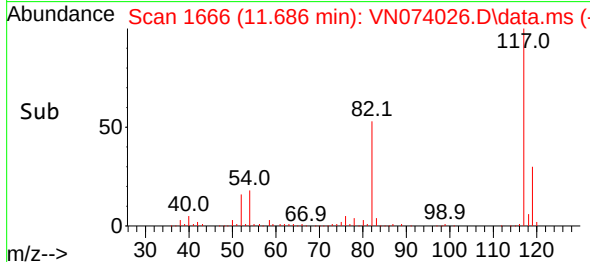
Instrument :
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Tgt Ion:117 Resp: 334470
Ion Ratio Lower Upper
117 100
82 52.4 43.6 65.4
119 32.0 25.8 38.6

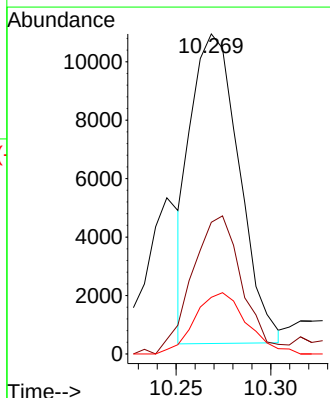
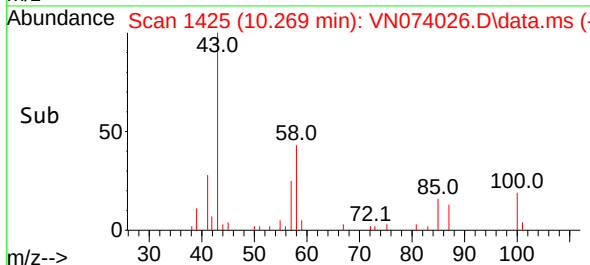
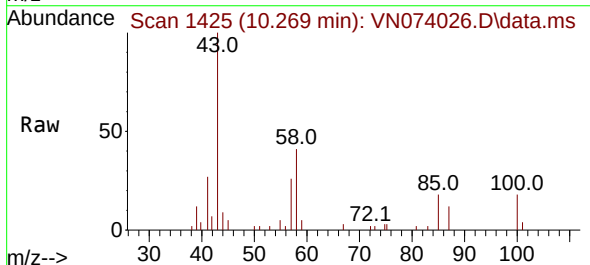
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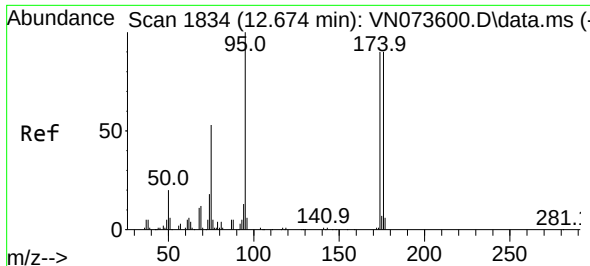
Reviewed By :Semsettin Yesilyurt 08/22/2022
Supervised By :Mahesh Dadoda 08/22/2022



#58
4-Methyl-2-Pentanone
Concen: 2.174 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

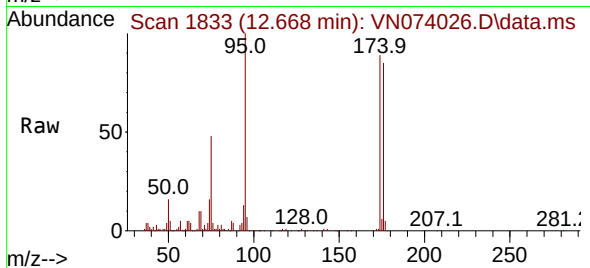
Tgt Ion: 43 Resp: 18798
Ion Ratio Lower Upper
43 100
58 46.6 30.0 45.0#
85 21.3 15.0 22.6





#60
4-Bromofluorobenzene
Concen: 28.727 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.006 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

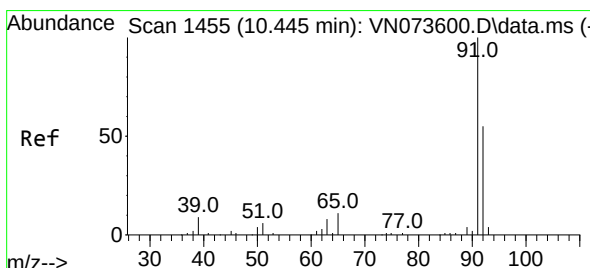
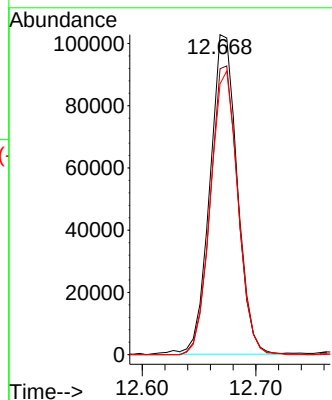
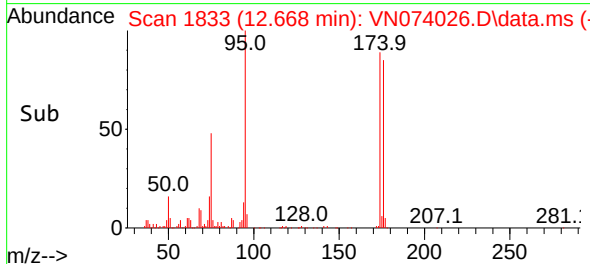
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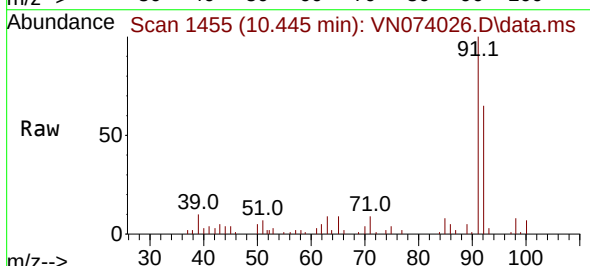
Tgt Ion: 95 Resp: 17013
Ion Ratio Lower Upper
95 100
174 91.9 62.9 94.3
176 89.7 61.0 91.4

Manual Integrations
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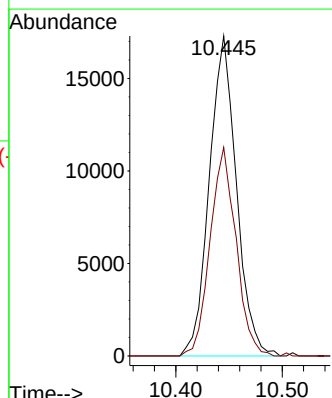
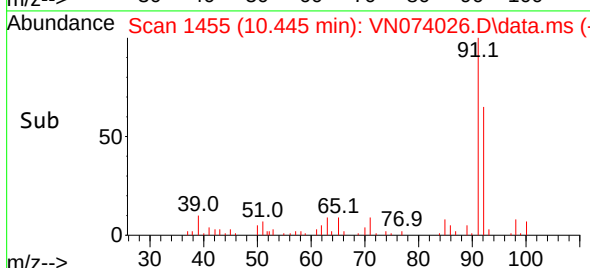
Reviewed By :Semsettin Yesilyurt 08/22/2022
Supervised By :Mahesh Dadoda 08/22/2022

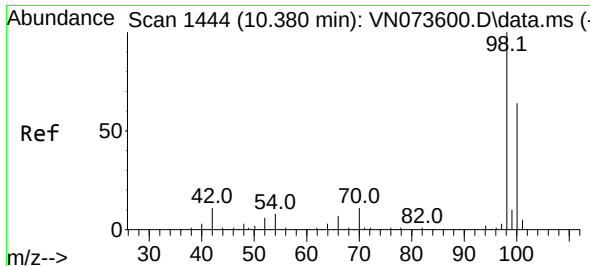


#62
Toluene
Concen: 1.315 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59



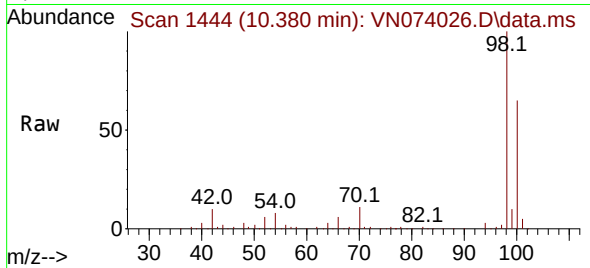
Tgt Ion: 91 Resp: 30580
Ion Ratio Lower Upper
91 100
92 62.3 44.6 67.0





#63
Toluene-d8
Concen: 28.635 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

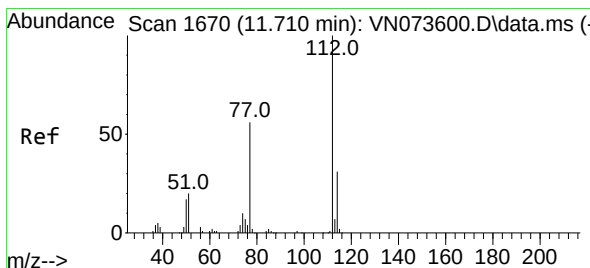
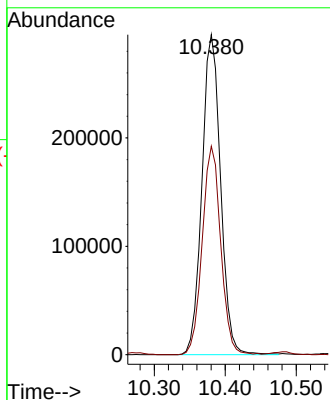
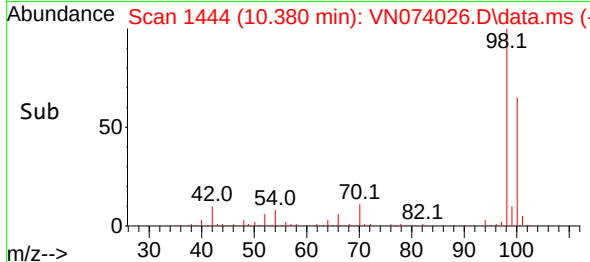
Instrument :
MSVOA_N
ClientSampleId :
220817015-02-VOA



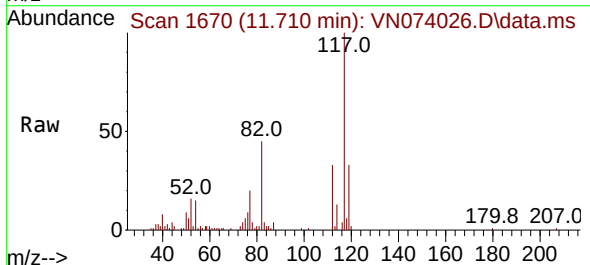
Tgt Ion: 98 Resp: 539299
Ion Ratio Lower Upper
98 100
100 64.5 50.6 76.0

Manual Integrations
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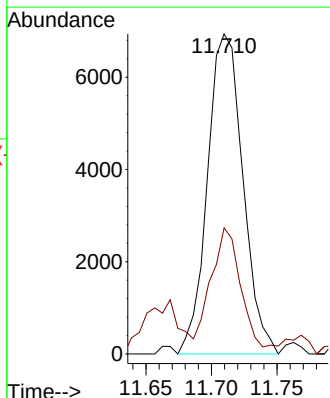
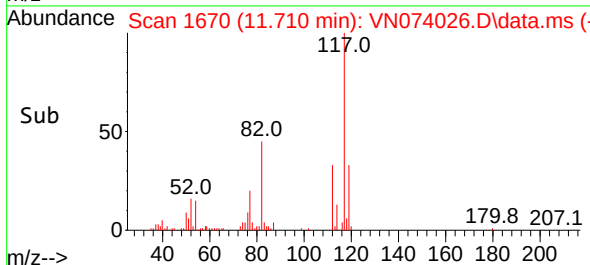
Reviewed By :Semsettin Yesilyurt 08/22/2022
Supervised By :Mahesh Dadoda 08/22/2022

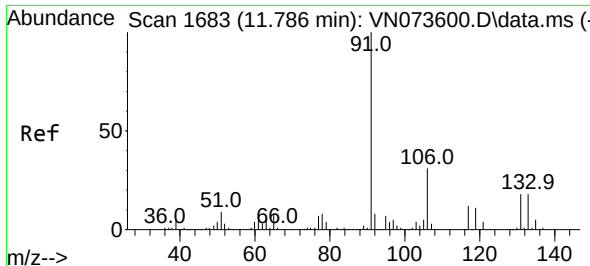


#64
Chlorobenzene
Concen: 0.939 ug/l
RT: 11.710 min Scan# 1670
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59



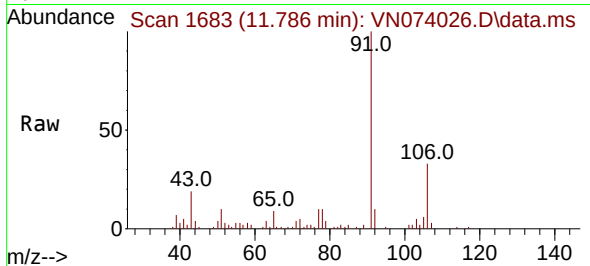
Tgt Ion:112 Resp: 13047
Ion Ratio Lower Upper
112 100
114 36.9 25.8 38.6





#66
Ethyl Benzene
Concen: 1.946 ug/l
RT: 11.786 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

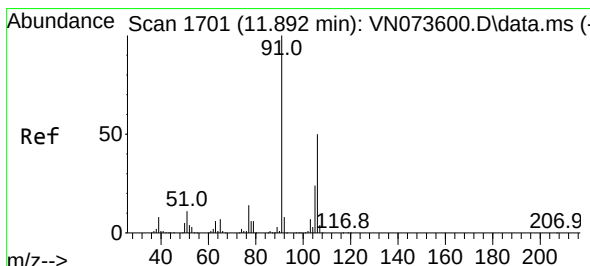
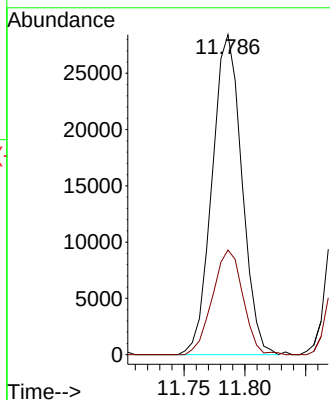
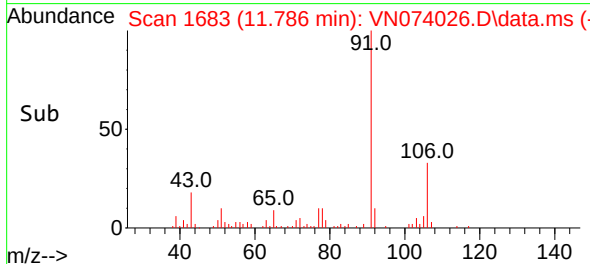
Instrument :
MSVOA_N
ClientSampleId :
220817015-02-VOA



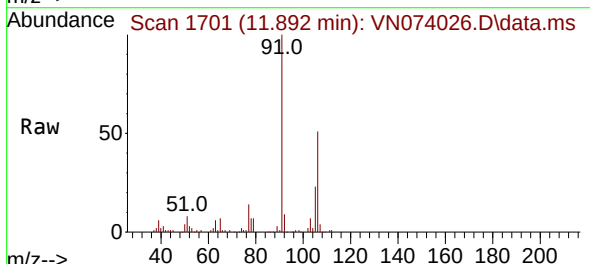
Tgt Ion: 91 Resp: 4839
Ion Ratio Lower Upper
91 100
106 32.7 24.0 36.0

Manual Integrations
APPROVED

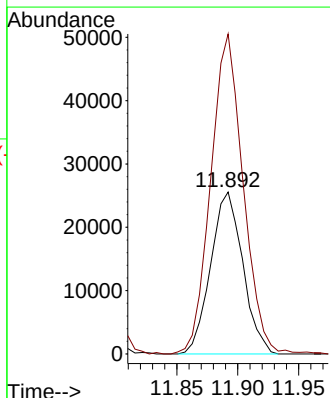
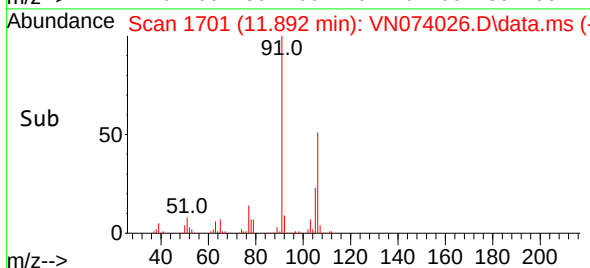
Reviewed By :Semsettin Yesilyurt 08/22/2022
Supervised By :Mahesh Dadoda 08/22/2022

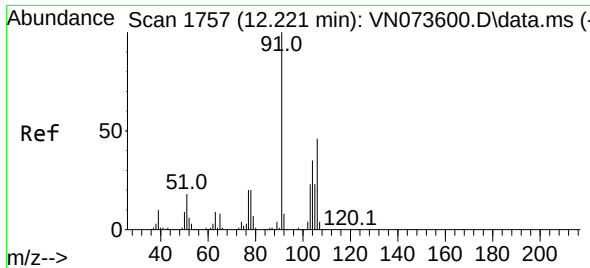


#67
m/p-Xylenes
Concen: 4.943 ug/l
RT: 11.892 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59



Tgt Ion:106 Resp: 46977
Ion Ratio Lower Upper
106 100
91 198.7 162.9 244.3





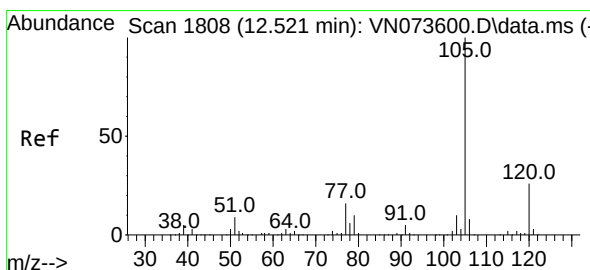
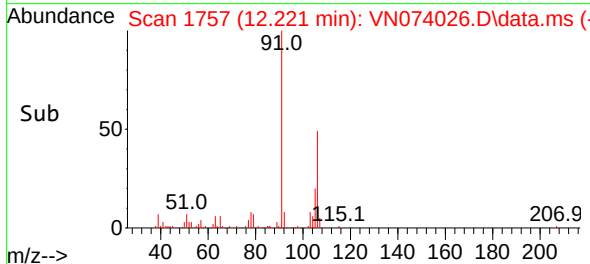
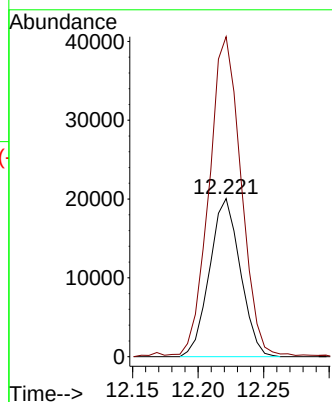
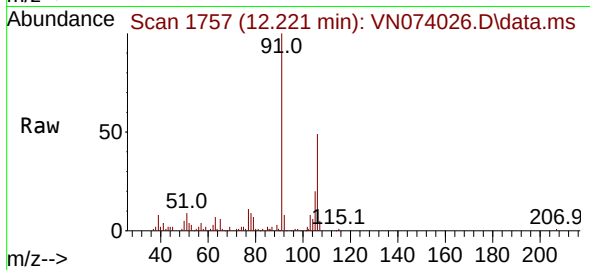
#68
o-Xylene
Concen: 3.468 ug/l
RT: 12.221 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

Instrument :
MSVOA_N
ClientSampleId :
220817015-02-VOA

Tgt Ion:106 Resp: 3273
Ion Ratio Lower Upper
106 100
91 211.2 107.7 323.1

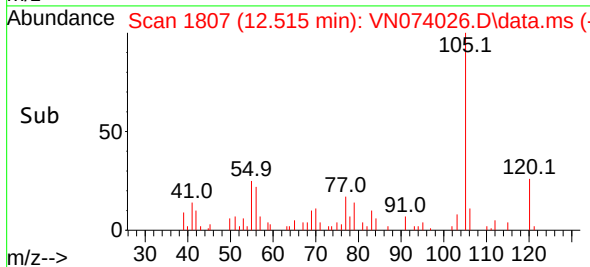
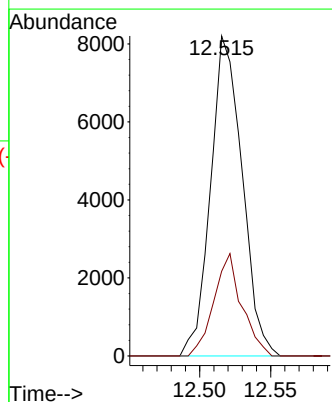
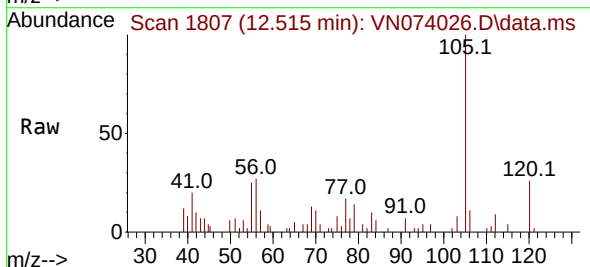
Manual Integrations
APPROVED

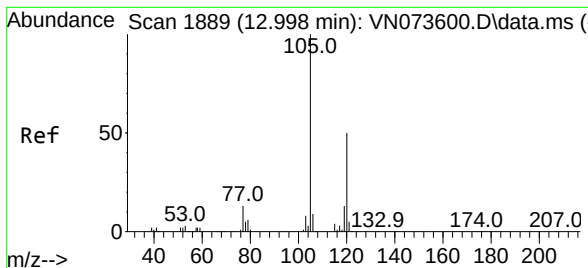
Reviewed By :Semsettin Yesilyurt 08/22/2022
Supervised By :Mahesh Dadoda 08/22/2022



#70
Isopropylbenzene
Concen: 0.525 ug/l
RT: 12.515 min Scan# 1807
Delta R.T. -0.006 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

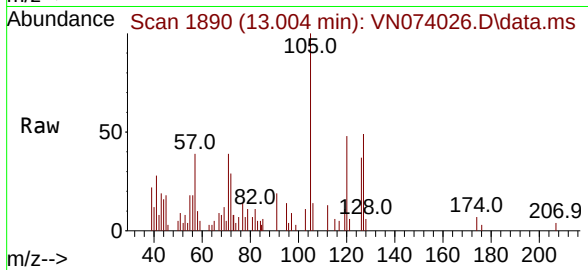
Tgt Ion:105 Resp: 12671
Ion Ratio Lower Upper
105 100
120 28.4 18.3 34.1





#76
1,3,5-Trimethylbenzene
Concen: 0.481 ug/l
RT: 13.004 min Scan# 1889
Delta R.T. 0.006 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

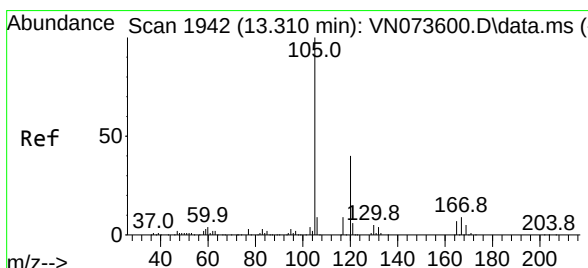
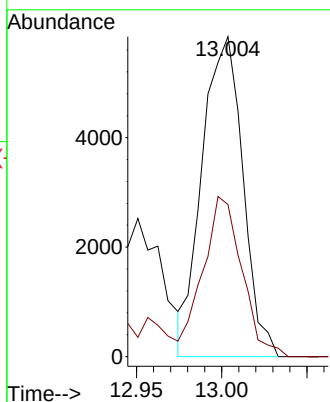
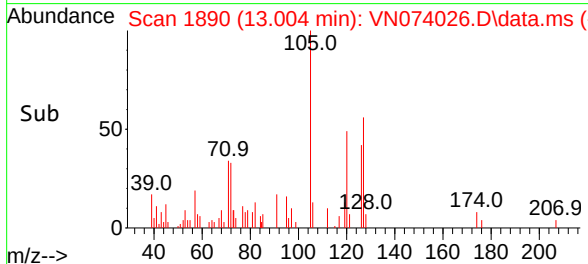
Instrument :
MSVOA_N
ClientSampleId :
220817015-02-VOA



Tgt Ion:105 Resp: 9720
Ion Ratio Lower Upper
105 100
120 47.9 0.0 93.8

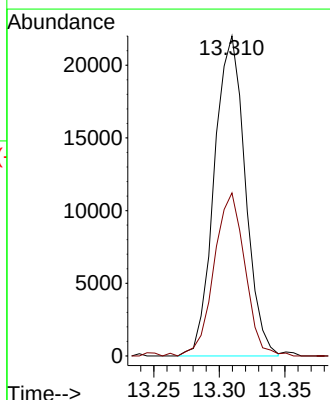
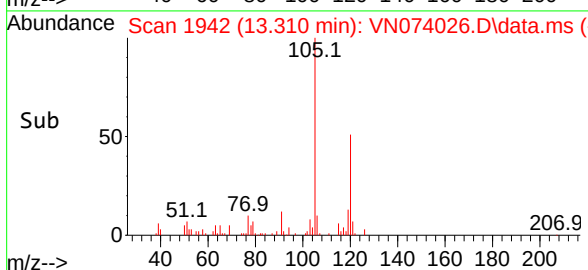
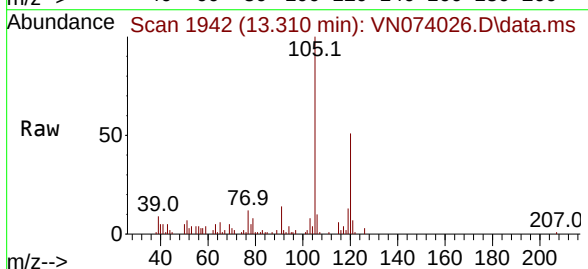
Manual Integrations
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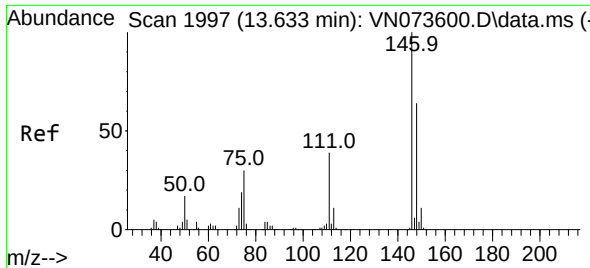
Reviewed By :Semsettin Yesilyurt 08/22/2022
Supervised By :Mahesh Dadoda 08/22/2022



#80
1,2,4-Trimethylbenzene
Concen: 1.808 ug/l
RT: 13.310 min Scan# 1942
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

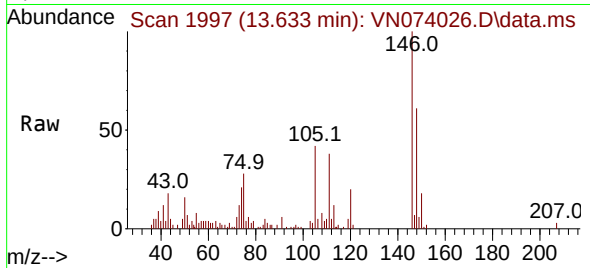
Tgt Ion:105 Resp: 36195
Ion Ratio Lower Upper
105 100
120 50.7 0.0 0.2#





#84
1,4-Dichlorobenzene
Concen: 2.815 ug/l
RT: 13.633 min Scan# 1997
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59

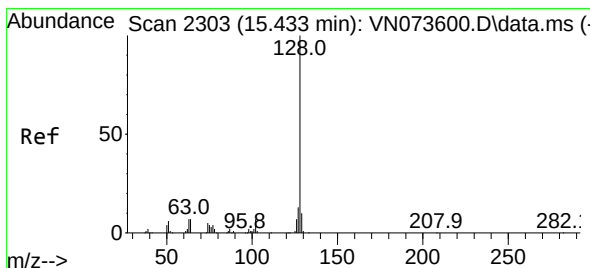
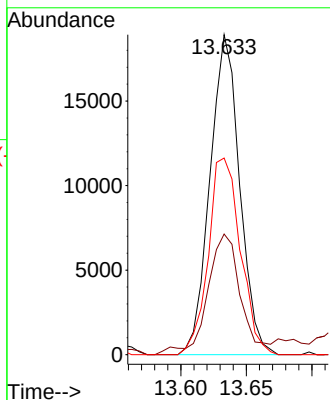
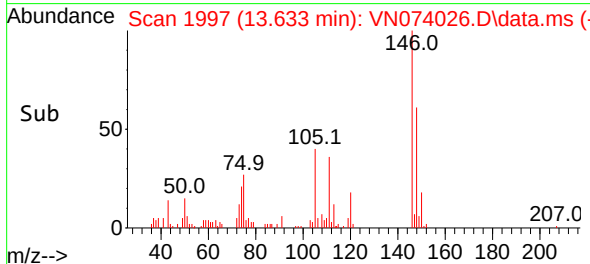
Instrument :
MSVOA_N
ClientSampleId :
220817015-02-VOA



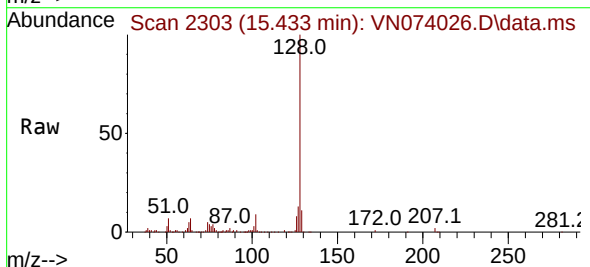
Tgt Ion:146 Resp: 2979
Ion Ratio Lower Upper
146 100
111 39.6 19.5 58.5
148 66.5 31.1 93.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 08/22/2022
Supervised By :Mahesh Dadoda 08/22/2022



#91
Naphthalene
Concen: 8.094 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN074026.D
Acq: 19 Aug 2022 14:59



Tgt Ion:128 Resp: 162291
Ion Ratio Lower Upper
128 100
127 13.5 10.7 16.1
129 11.2 9.0 13.6

