

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084624.D
 Acq On : 31 Oct 2024 17:25
 Operator : JC\MD
 Sample : P4646-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 241030069-01-VOA

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024

Quant Time: Nov 01 02:49:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30788	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	160595	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	150355	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	72579	29.323	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.733%		
60) 4-Bromofluorobenzene	12.847	95	72009	27.815	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.700%		
63) Toluene-d8	10.565	98	198530	27.892	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	92.967%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.959	74	2669m	2.301	ug/l	
12) Methyl Acetate	5.030	43	7615m	2.723	ug/l	
15) Acetone	4.430	58	67225	285.951	ug/l	92
16) Carbon Disulfide	4.689	76	3437	0.651	ug/l #	78
23) tert-Butyl Alcohol	5.553	59	1301139	4073.413	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	16202m	2.792	ug/l	
30) 2-Butanone	7.483	43	264366	236.931	ug/l	94
34) Benzene	8.600	78	33478	4.187	ug/l #	84
45) 1,4-Dioxane	9.700	88	3026	95.472	ug/l #	84
58) 4-Methyl-2-Pentanone	10.447	43	8956	3.776	ug/l #	77
62) Toluene	10.624	91	19845	2.317	ug/l	97
64) Chlorobenzene	11.888	112	7252	1.403	ug/l	89
66) Ethyl Benzene	11.965	91	57034	6.337	ug/l	94
67) m/p-Xylenes	12.071	106	28691	8.327	ug/l	99
68) o-Xylene	12.394	106	17412	5.239	ug/l	98
70) Isopropylbenzene	12.694	105	8063	0.977	ug/l	97
74) n-propylbenzene	13.035	91	5033	0.521	ug/l	98
76) 1,3,5-Trimethylbenzene	13.171	105	5106	0.724	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	20270	2.848	ug/l	97
82) p-Isopropyltoluene	13.723	119	6988	1.035	ug/l	94
84) 1,4-Dichlorobenzene	13.806	146	13402	3.444	ug/l	95
85) n-Butylbenzene	14.053	91	1456	0.257	ug/l	95
87) 1,2-Dichlorobenzene	14.106	146	1621	0.418	ug/l	92
91) Naphthalene	15.641	128	205176	33.999	ug/l	99

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

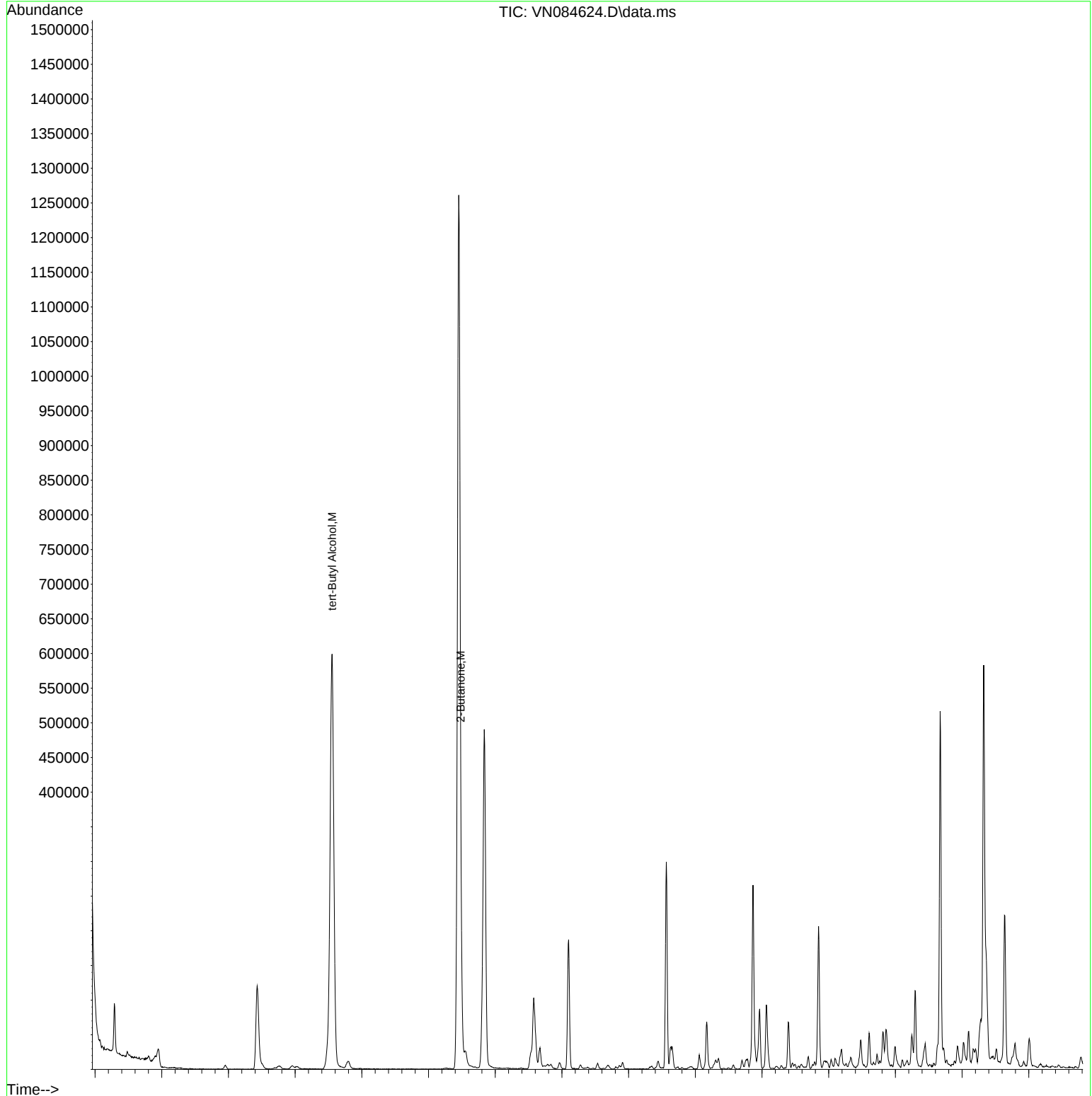
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
Data File : VN084624.D
Acq On : 31 Oct 2024 17:25
Operator : JC\MD
Sample : P4646-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

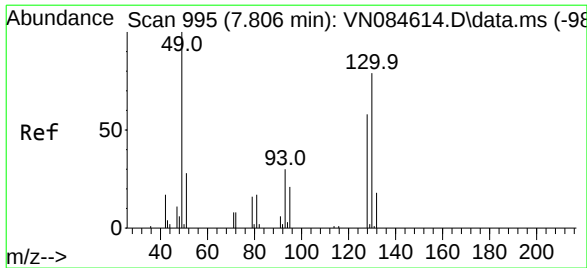
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA

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Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024

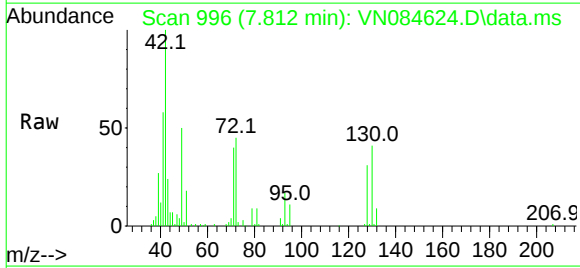
Quant Time: Nov 01 02:49:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 995
Delta R.T. 0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

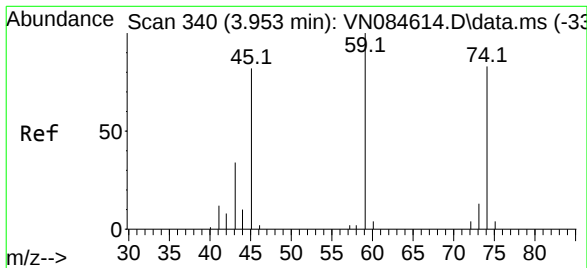
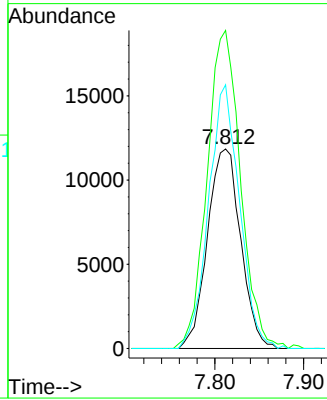
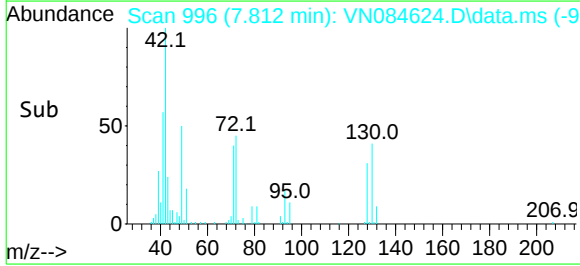
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA



Tgt Ion:128 Resp: 30788
Ion Ratio Lower Upper
128 100
49 160.2 0.0 427.0
130 123.2 0.0 322.2

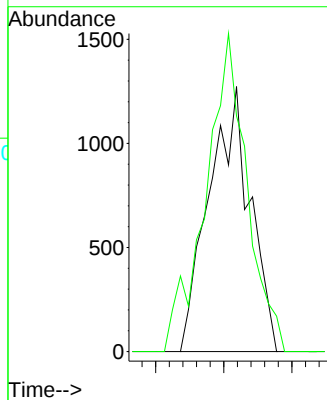
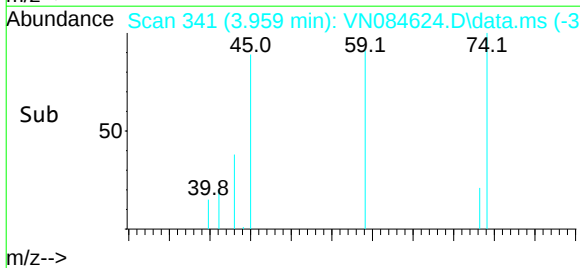
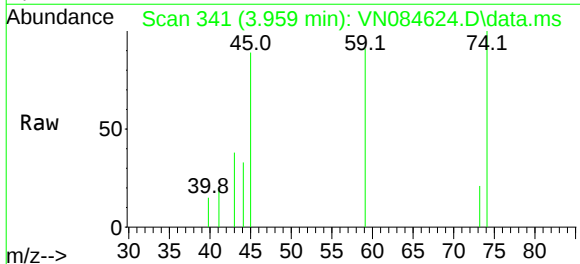
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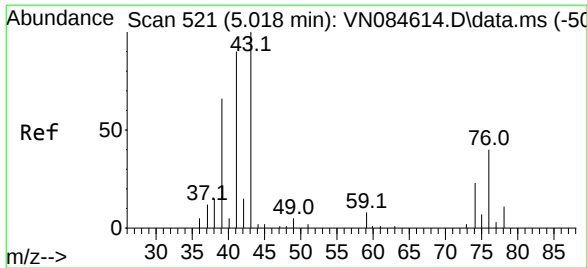
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#8
Diethyl Ether
Concen: 2.301 ug/l m
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

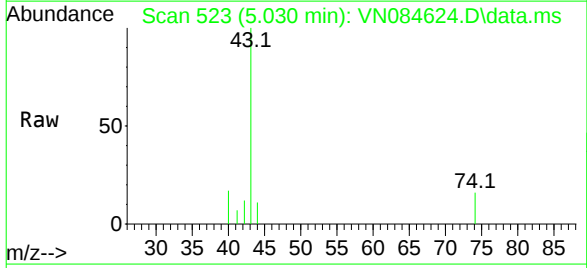
Tgt Ion: 74 Resp: 2669
Ion Ratio Lower Upper
74 100
45 0.0 19.8 178.4#





#12
Methyl Acetate
Concen: 2.723 ug/l m
RT: 5.030 min Scan# 521
Delta R.T. 0.012 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

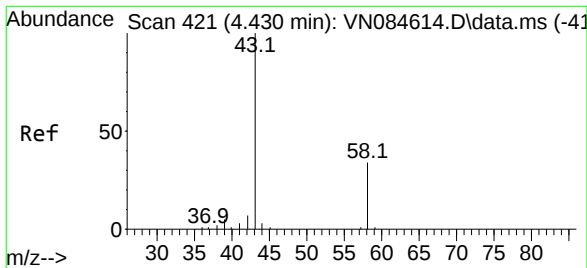
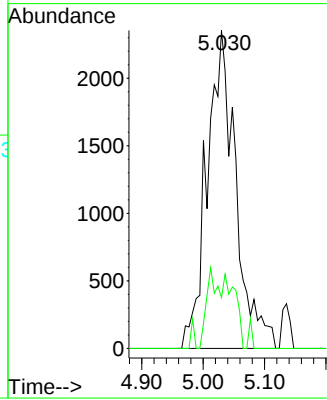
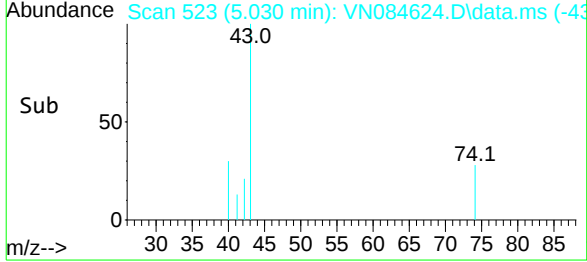
Instrument :
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ClientSampleId :
241030069-01-VOA



Tgt Ion: 43 Resp: 7615
Ion Ratio Lower Upper
43 100
74 16.0 19.0 28.4#

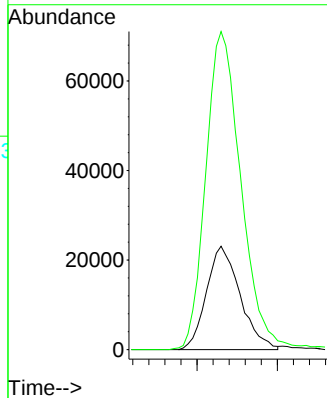
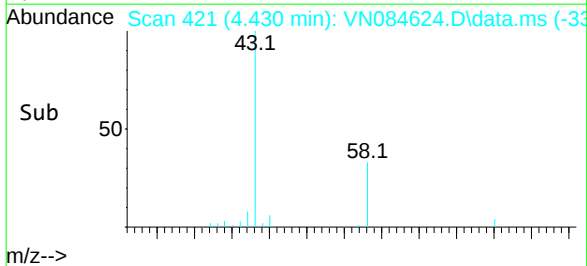
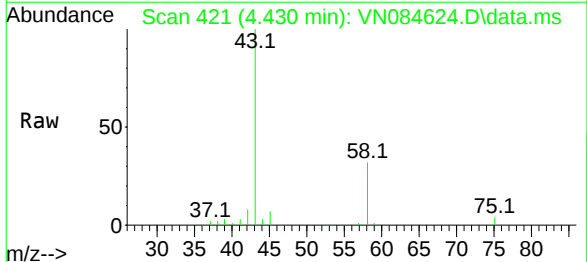
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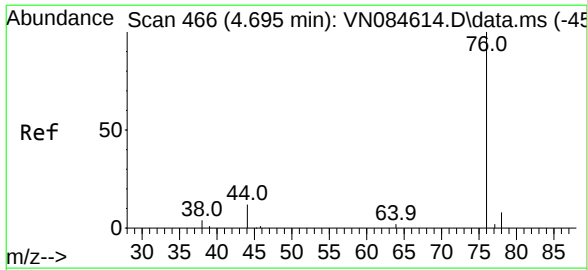
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#15
Acetone
Concen: 285.951 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

Tgt Ion: 58 Resp: 67225
Ion Ratio Lower Upper
58 100
43 306.1 233.0 349.6





#16

Carbon Disulfide

Concen: 0.651 ug/l

RT: 4.689 min Scan# 46

Delta R.T. -0.006 min

Lab File: VN084624.D

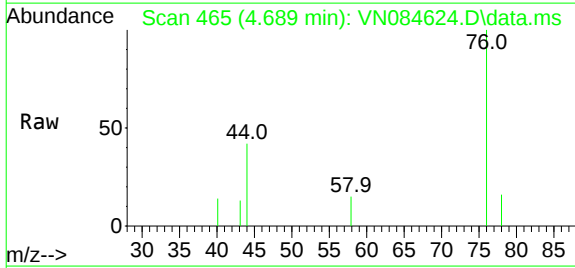
Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA



Tgt Ion: 76 Resp: 3437

Ion Ratio Lower Upper

76 100

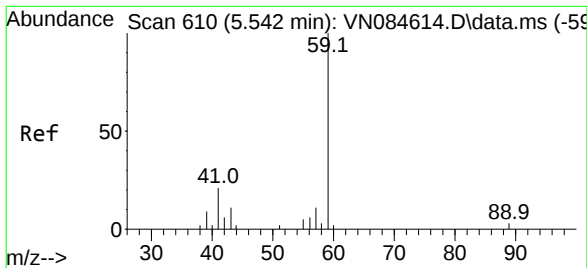
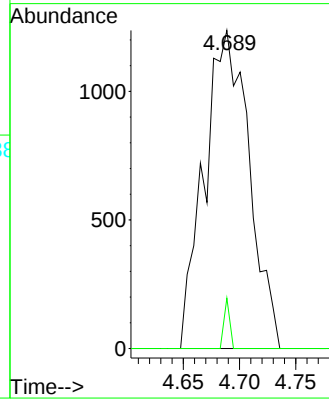
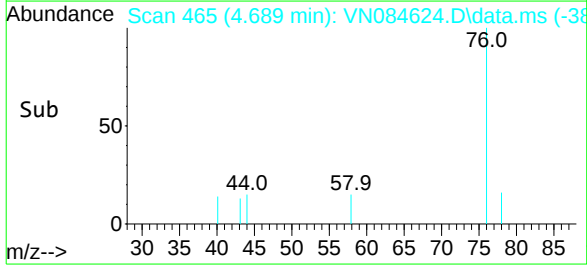
78 15.8 6.6 9.8#

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#23

tert-Butyl Alcohol

Concen: 4073.413 ug/l

RT: 5.553 min Scan# 612

Delta R.T. 0.012 min

Lab File: VN084624.D

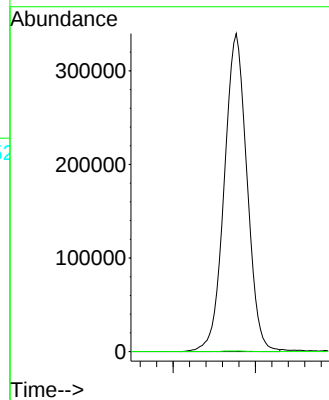
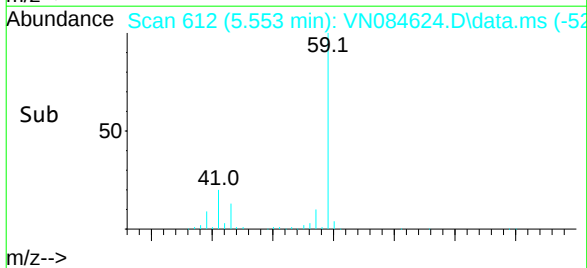
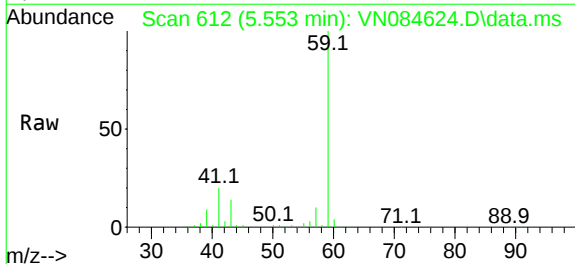
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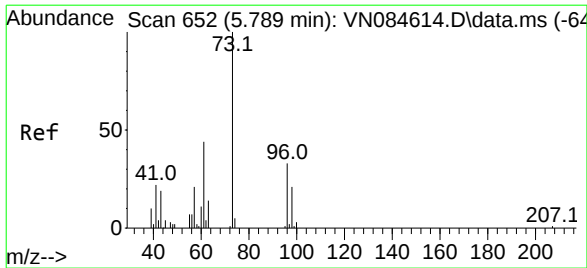
Tgt Ion: 59 Resp: 1301139

Ion Ratio Lower Upper

59 100

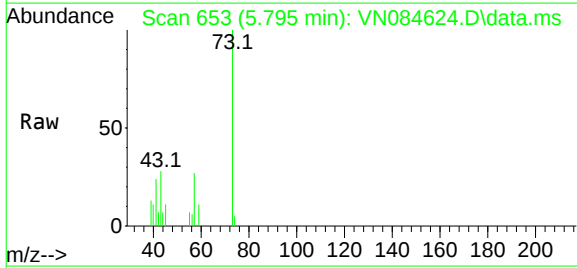
52 0.1 0.0 0.0#





#24
Methyl tert-Butyl Ether
Concen: 2.792 ug/l m
RT: 5.795 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

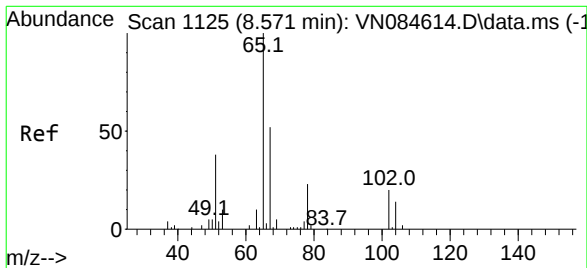
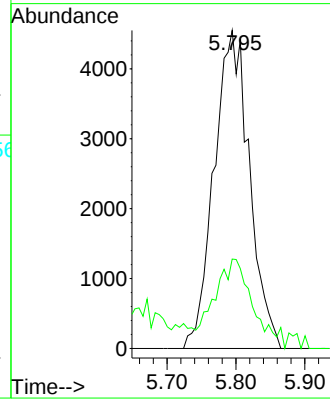
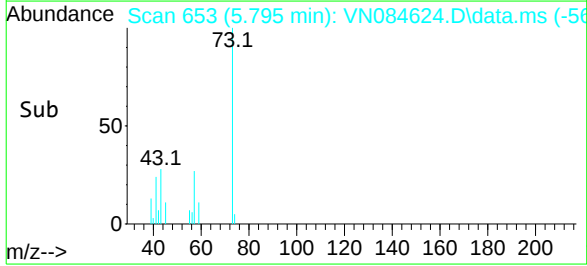
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA



Tgt Ion: 73 Resp: 16202
Ion Ratio Lower Upper
73 100
43 15.6 16.5 24.7#

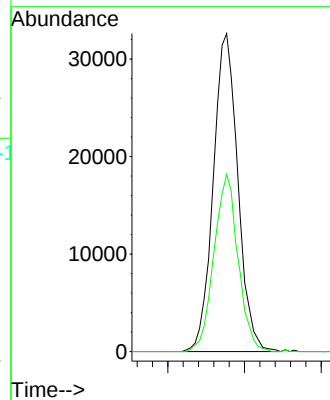
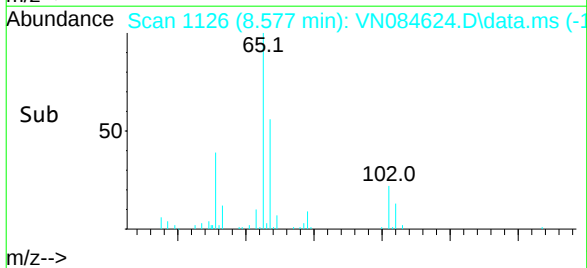
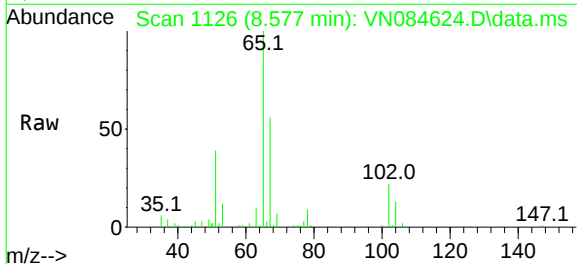
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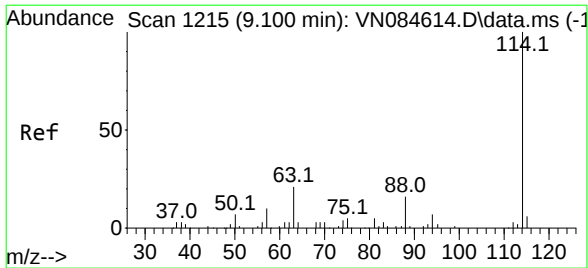
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#27
1,2-Dichloroethane-d4
Concen: 29.323 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

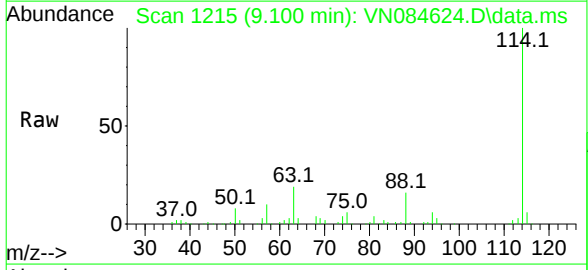
Tgt Ion: 65 Resp: 72579
Ion Ratio Lower Upper
65 100
67 54.5 40.7 61.1





#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

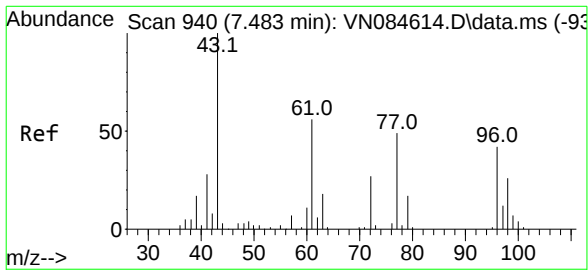
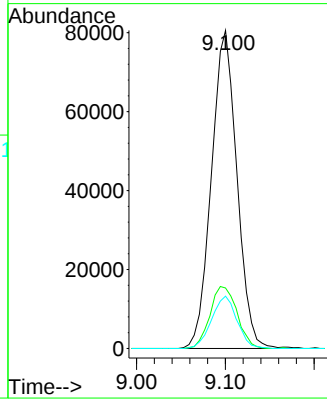
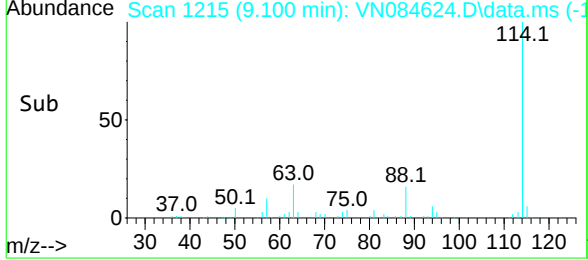
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241030069-01-VOA



Tgt Ion:	114	Resp:	160595
Ion	Ratio	Lower	Upper
114	100		
63	20.7	16.8	25.2
88	16.4	12.9	19.3

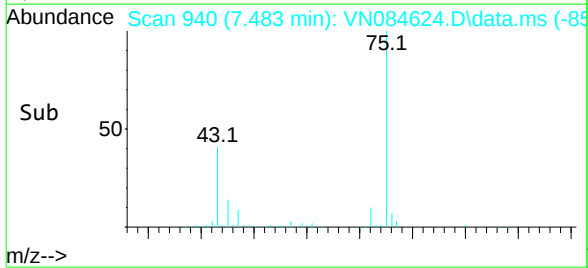
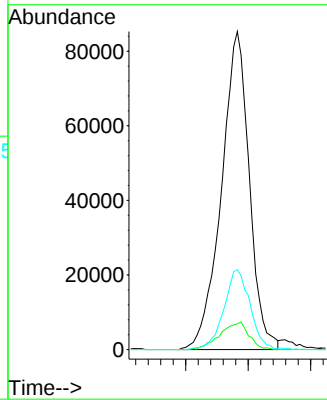
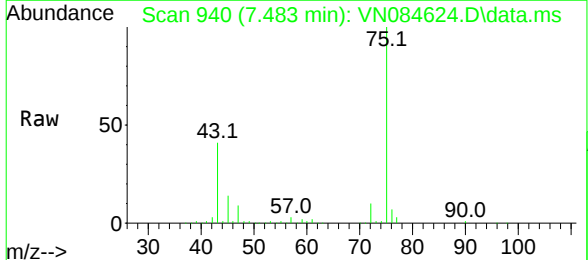
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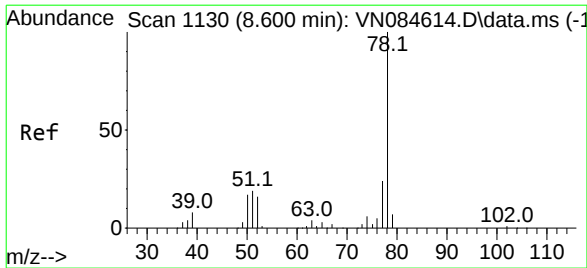
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#30
2-Butanone
Concen: 236.931 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

Tgt Ion:	43	Resp:	264366
Ion	Ratio	Lower	Upper
43	100		
57	8.9	6.2	9.4
72	23.5	21.5	32.3





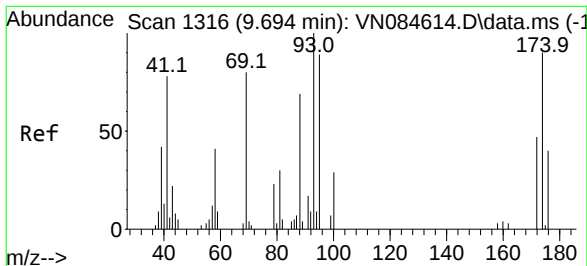
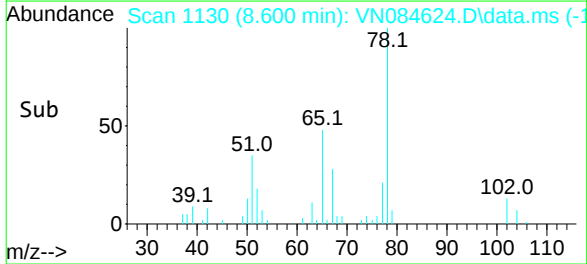
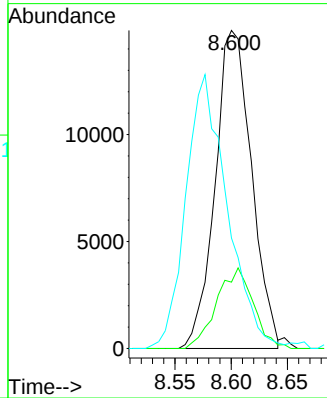
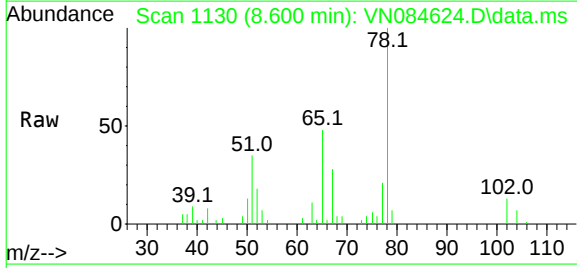
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Benzene
Concen: 4.187 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA

Tgt Ion: 78 Resp: 33478
Ion Ratio Lower Upper
78 100
77 20.9 19.3 28.9
51 33.0 16.1 24.1#

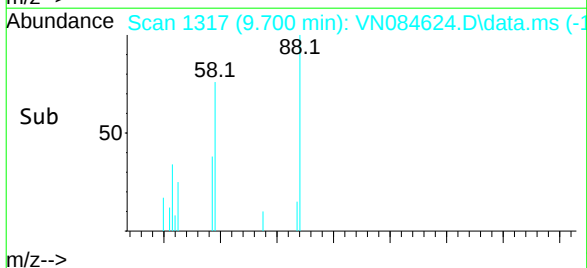
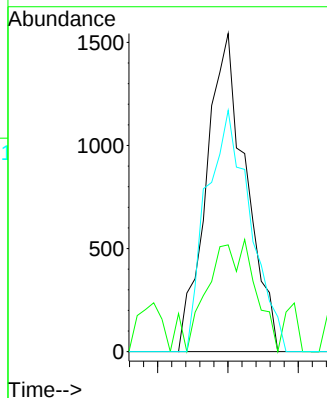
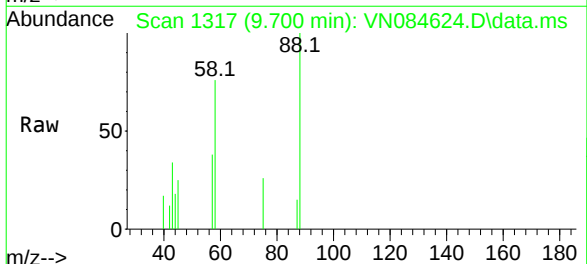
Manual Integrations
APPROVED

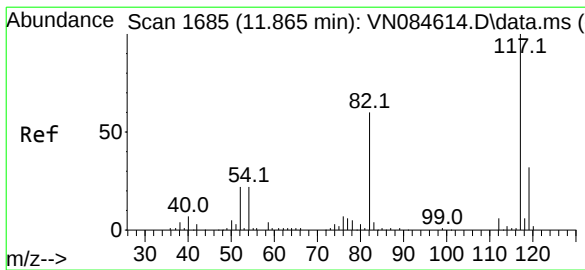
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#45
1,4-Dioxane
Concen: 95.472 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

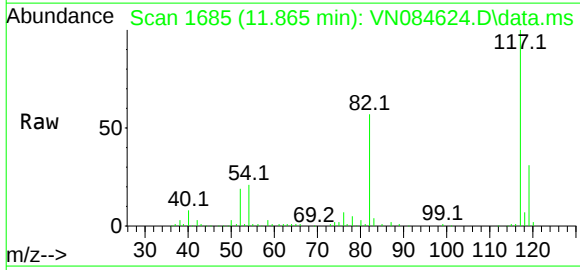
Tgt Ion: 88 Resp: 3026
Ion Ratio Lower Upper
88 100
43 25.9 20.8 31.2
58 84.0 53.4 80.2#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

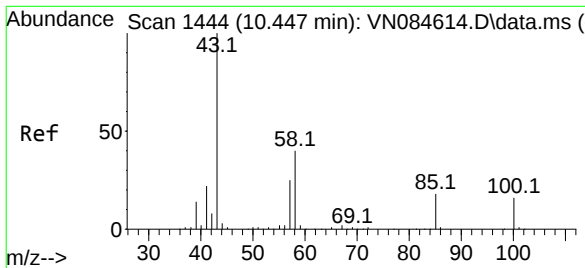
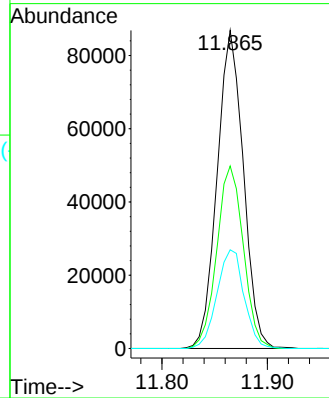
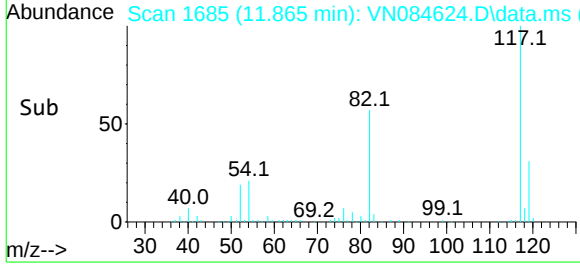
Instrument :
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Tgt Ion: 117 Resp: 150355
Ion Ratio Lower Upper
117 100
82 58.1 45.5 68.3
119 32.1 25.3 37.9

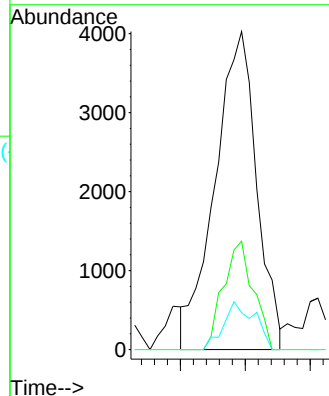
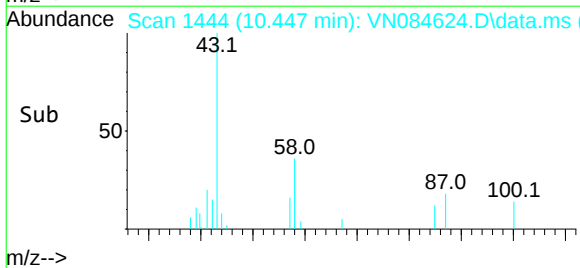
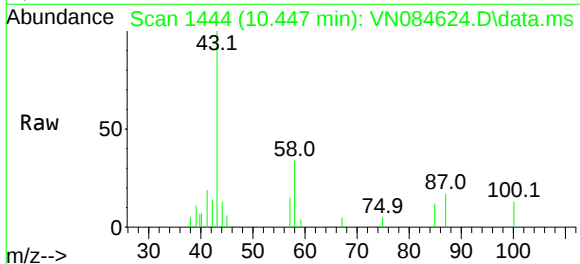
Manual Integrations
APPROVED

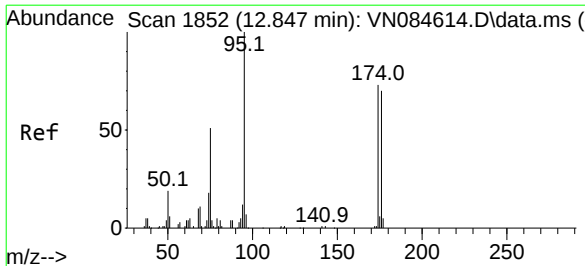
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#58
4-Methyl-2-Pentanone
Concen: 3.776 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

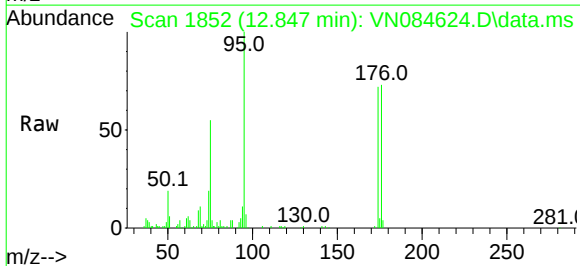
Tgt Ion: 43 Resp: 8956
Ion Ratio Lower Upper
43 100
58 24.6 31.2 46.8#
85 8.5 14.9 22.3#





#60
4-Bromofluorobenzene
Concen: 27.815 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

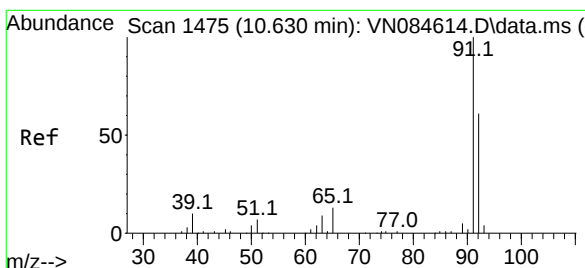
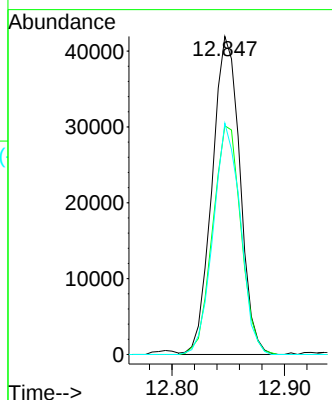
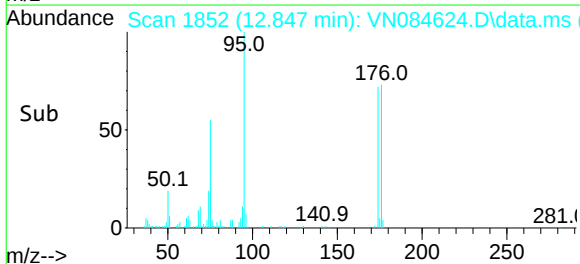
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA



Tgt Ion: 95 Resp: 72009
Ion Ratio Lower Upper
95 100
174 73.1 59.6 89.4
176 71.0 58.6 88.0

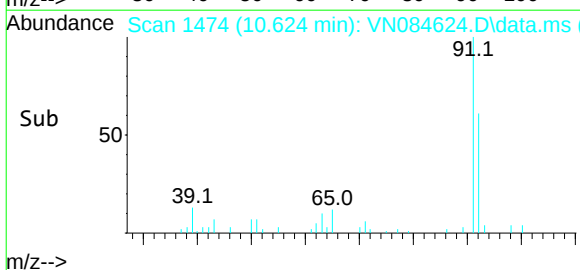
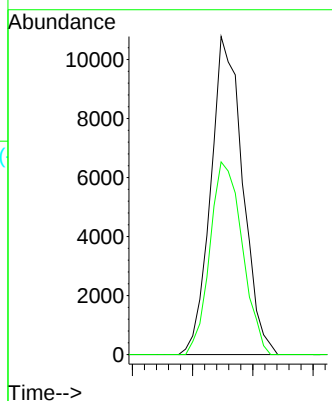
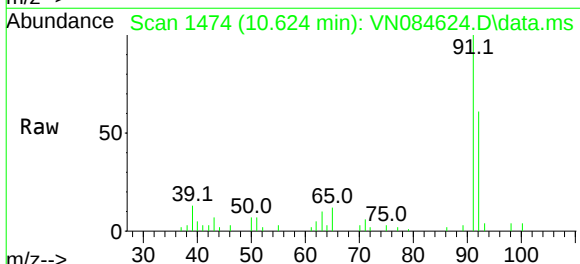
Manual Integrations
APPROVED

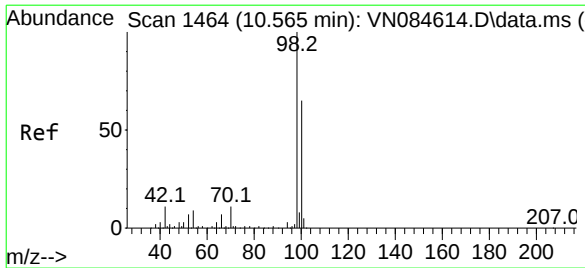
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#62
Toluene
Concen: 2.317 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

Tgt Ion: 91 Resp: 19845
Ion Ratio Lower Upper
91 100
92 61.4 47.5 71.3





#63

Toluene-d8

Concen: 27.892 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion: 98 Resp: 198530

Ion Ratio Lower Upper

98 100

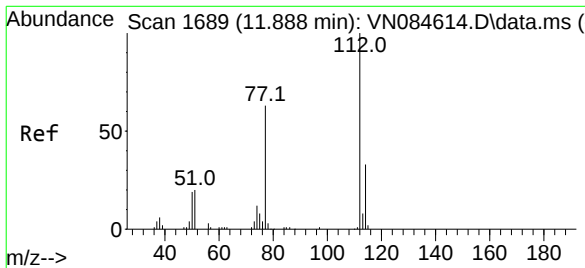
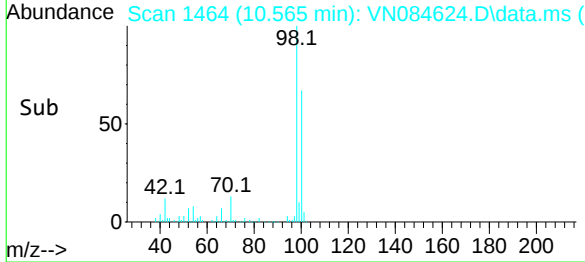
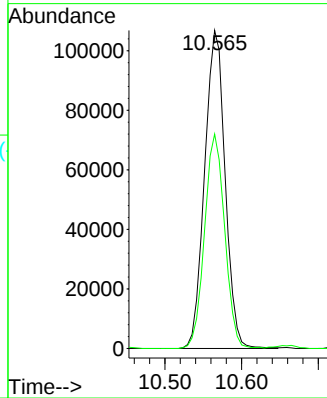
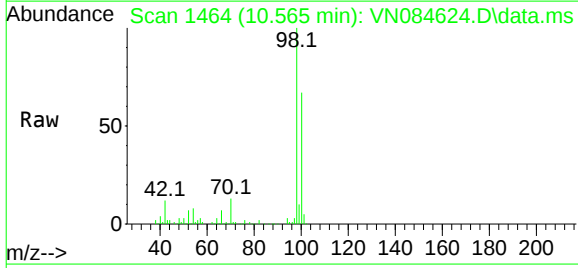
100 66.1 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#64

Chlorobenzene

Concen: 1.403 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084624.D

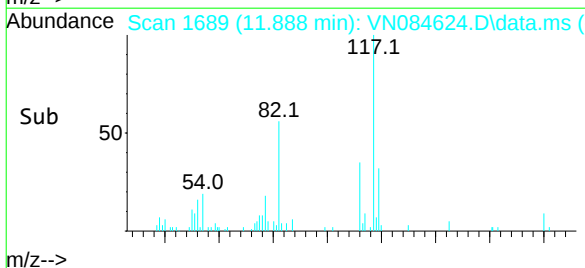
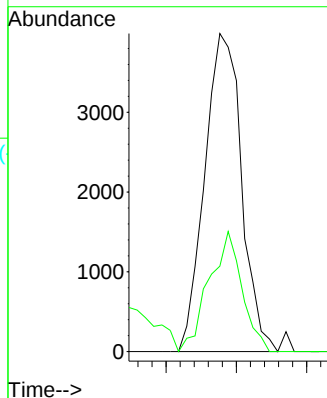
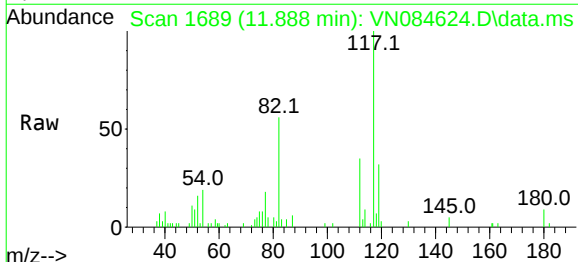
Acq: 31 Oct 2024 17:25

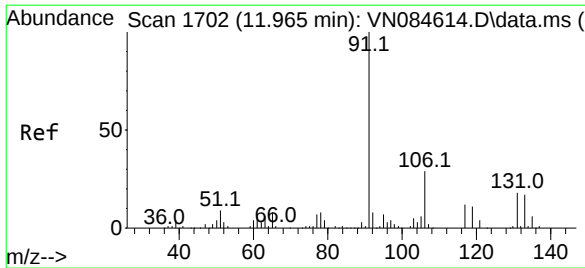
Tgt Ion:112 Resp: 7252

Ion Ratio Lower Upper

112 100

114 26.9 26.2 39.4





#66

Ethyl Benzene

Concen: 6.337 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

241030069-01-VOA

Tgt Ion: 91 Resp: 57034

Ion Ratio Lower Upper

91 100

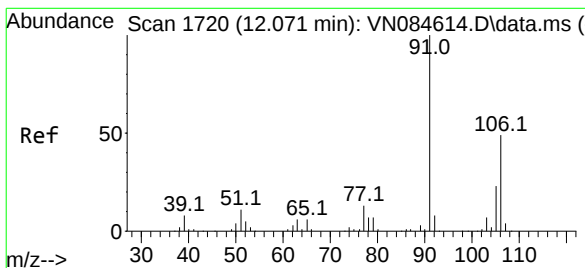
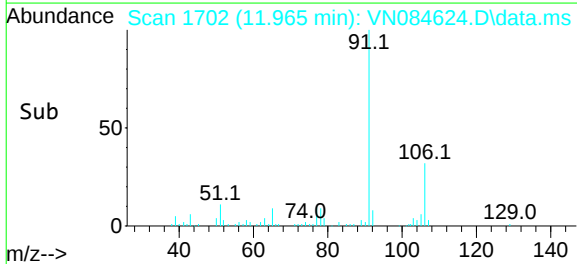
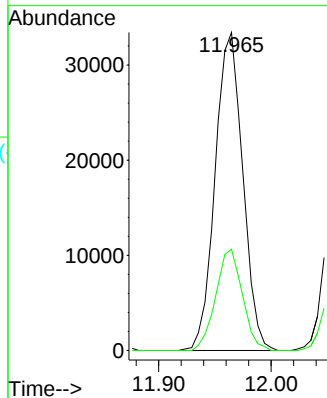
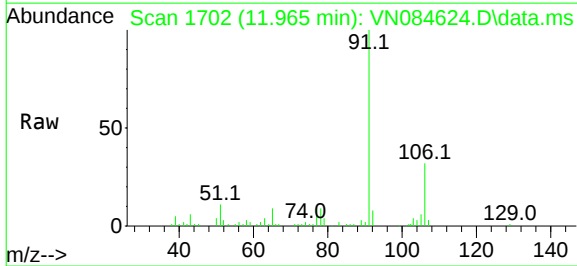
106 31.9 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024

Supervised By :Mahesh Dadoda 11/04/2024



#67

m/p-Xylenes

Concen: 8.327 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN084624.D

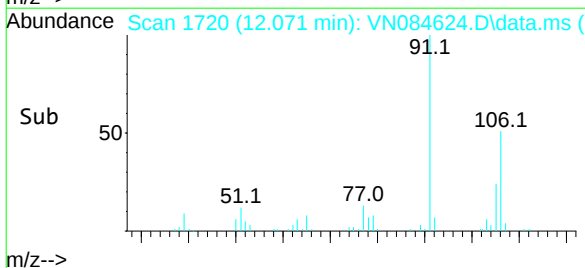
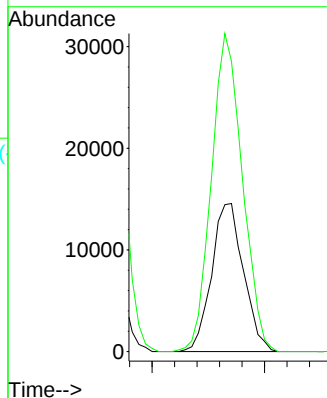
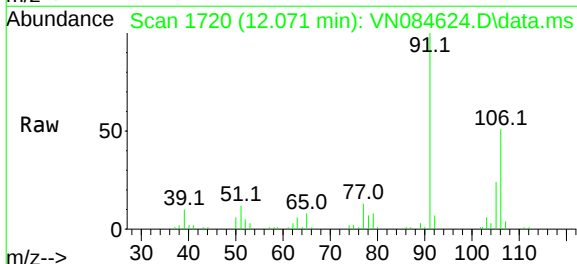
Acq: 31 Oct 2024 17:25

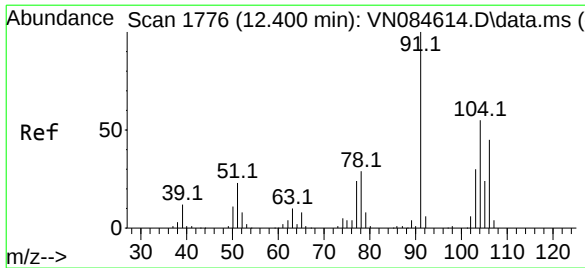
Tgt Ion:106 Resp: 28691

Ion Ratio Lower Upper

106 100

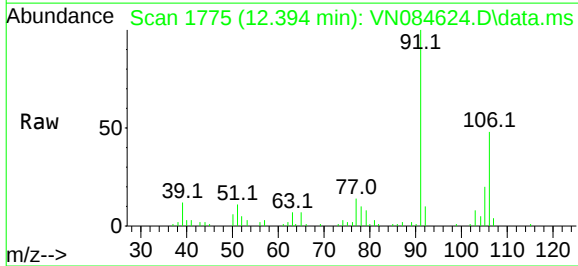
91 208.9 168.1 252.1





#68
o-Xylene
Concen: 5.239 ug/l
RT: 12.394 min Scan# 1776
Delta R.T. -0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

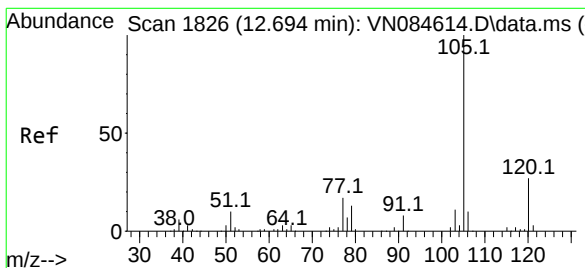
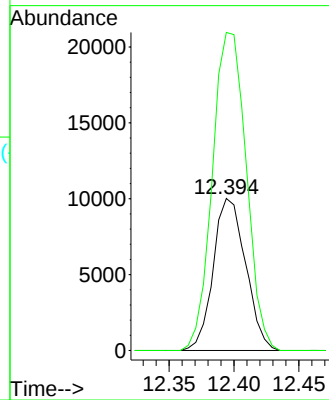
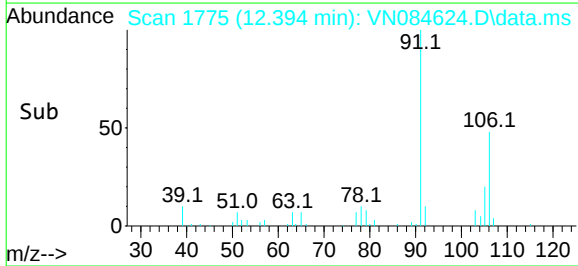
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA



Tgt Ion:106 Resp: 17412
Ion Ratio Lower Upper
106 100
91 218.4 107.7 322.9

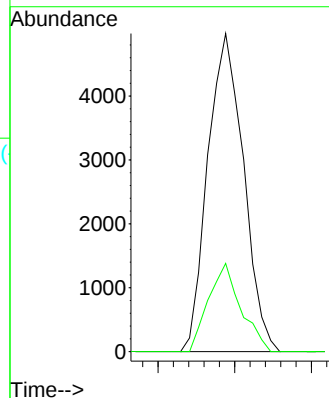
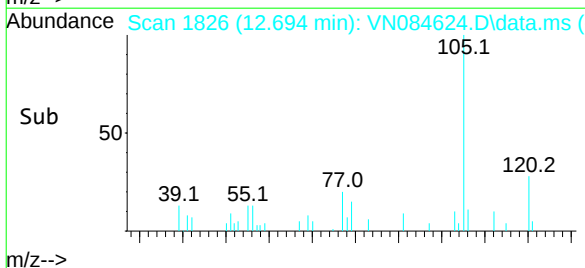
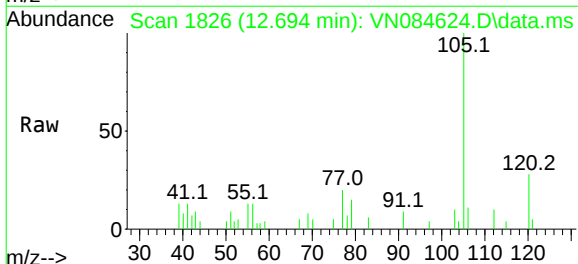
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APPROVED

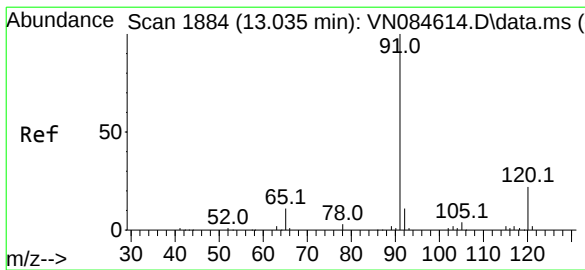
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#70
Isopropylbenzene
Concen: 0.977 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

Tgt Ion:105 Resp: 8063
Ion Ratio Lower Upper
105 100
120 25.1 18.7 34.7





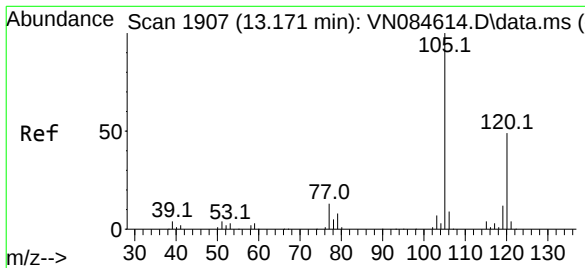
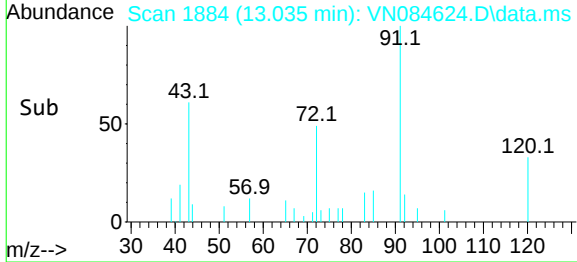
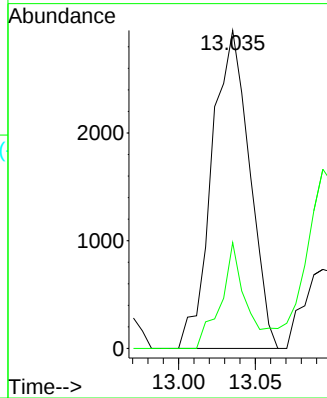
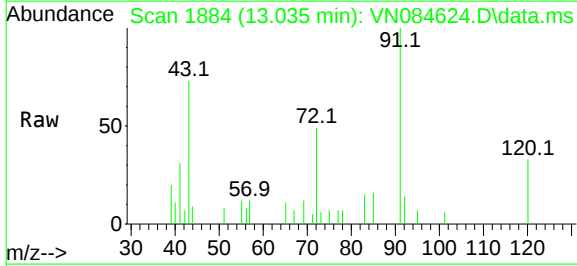
#74
n-propylbenzene
Concen: 0.521 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA

Tgt Ion: 91 Resp: 5033
Ion Ratio Lower Upper
91 100
120 21.1 0.0 44.0

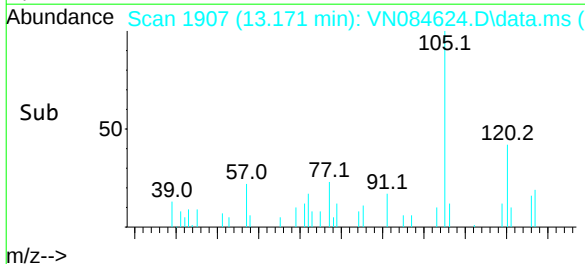
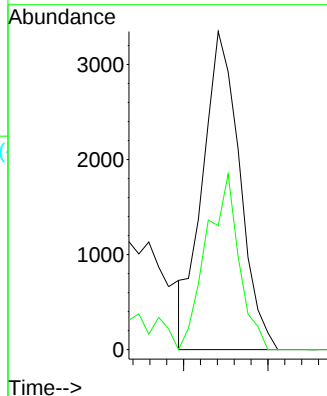
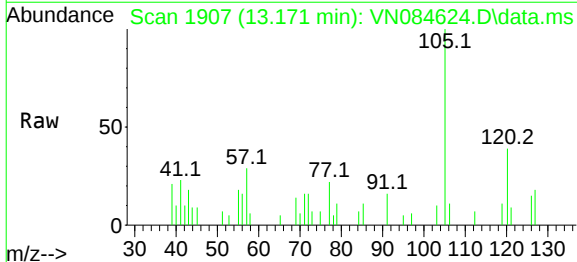
Manual Integrations
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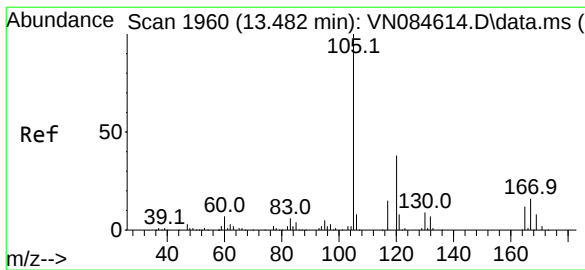
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#76
1,3,5-Trimethylbenzene
Concen: 0.724 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

Tgt Ion:105 Resp: 5106
Ion Ratio Lower Upper
105 100
120 48.6 0.0 96.8





#80

1,2,4-Trimethylbenzene

Concen: 2.848 ug/l

RT: 13.482 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

Instrument :

MSVOA_N

ClientSampleId :

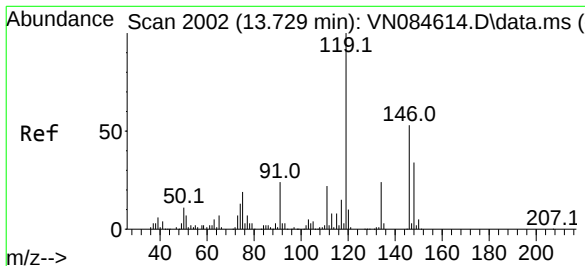
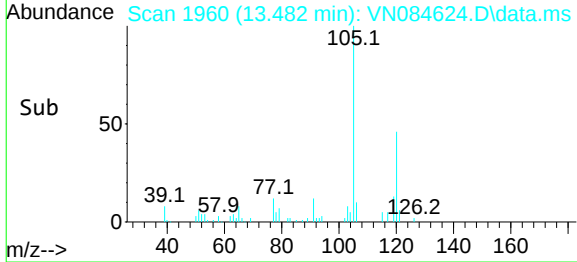
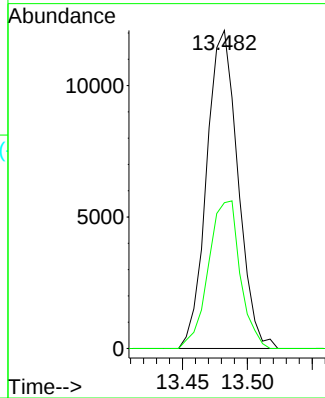
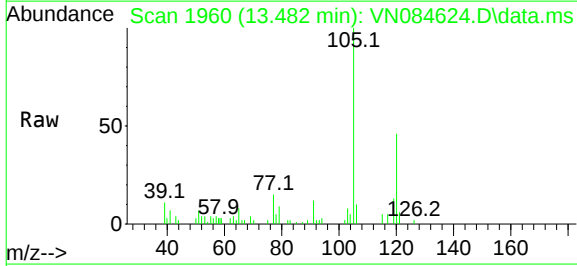
241030069-01-VOA

Tgt Ion:105 Resp: 20270
 Ion Ratio Lower Upper
 105 100
 120 47.1 0.0 90.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/04/2024
 Supervised By :Mahesh Dadoda 11/04/2024



#82

p-Isopropyltoluene

Concen: 1.035 ug/l

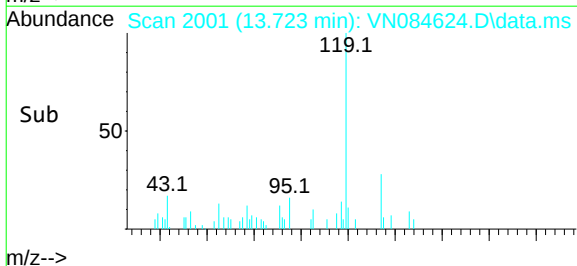
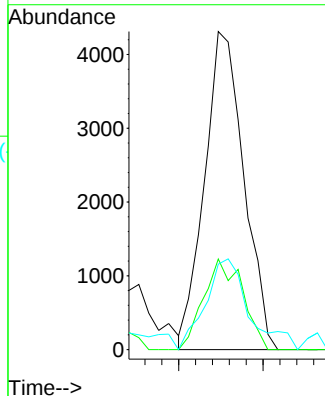
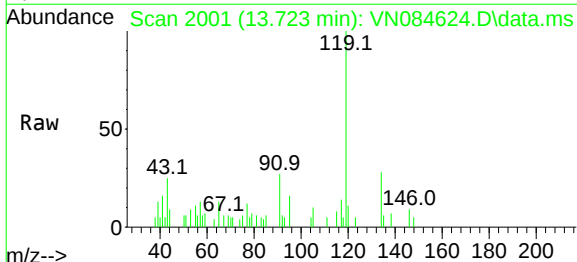
RT: 13.723 min Scan# 2001

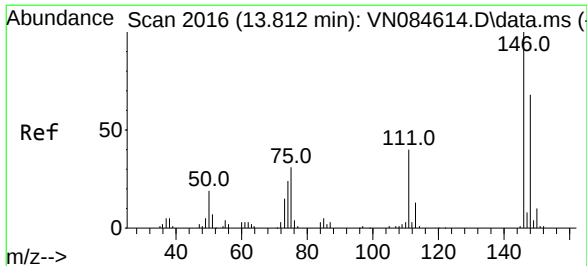
Delta R.T. -0.006 min

Lab File: VN084624.D

Acq: 31 Oct 2024 17:25

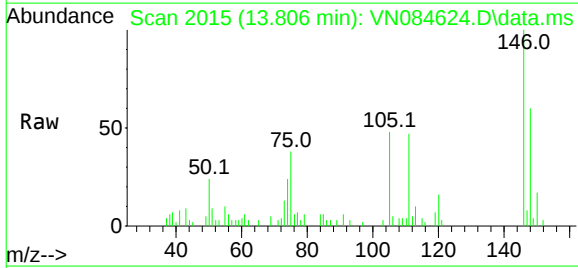
Tgt Ion:119 Resp: 6988
 Ion Ratio Lower Upper
 119 100
 134 28.3 0.0 51.4
 91 29.0 0.0 50.4





#84
1,4-Dichlorobenzene
Concen: 3.444 ug/l
RT: 13.806 min Scan# 2016
Delta R.T. -0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

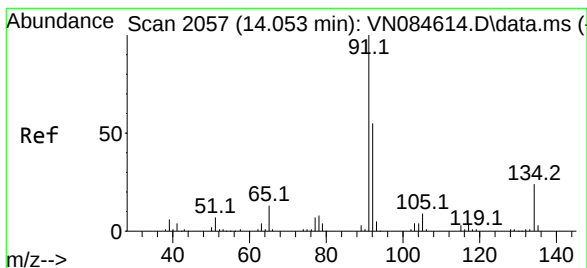
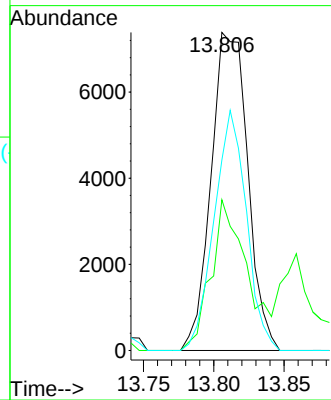
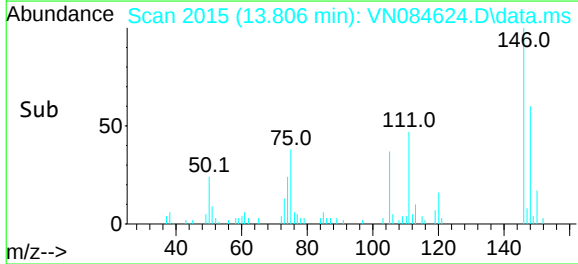
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA



Tgt Ion: 146 Resp: 13402
Ion Ratio Lower Upper
146 100
111 46.7 20.2 60.5
148 66.5 32.6 98.0

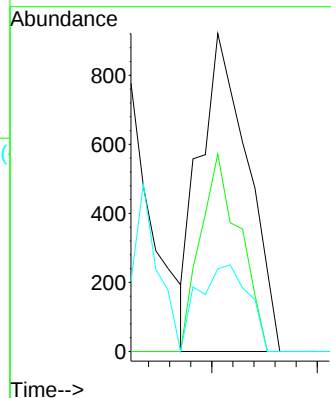
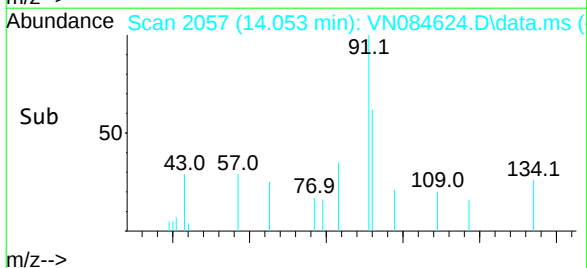
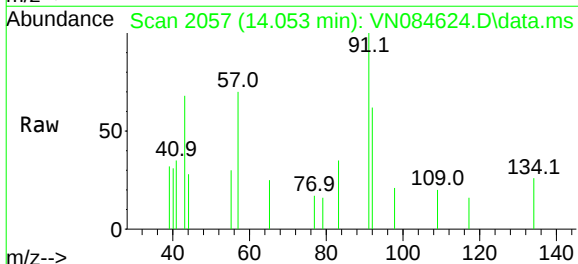
Manual Integrations
APPROVED

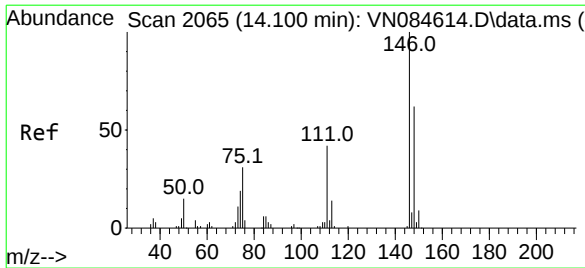
Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#85
n-Butylbenzene
Concen: 0.257 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

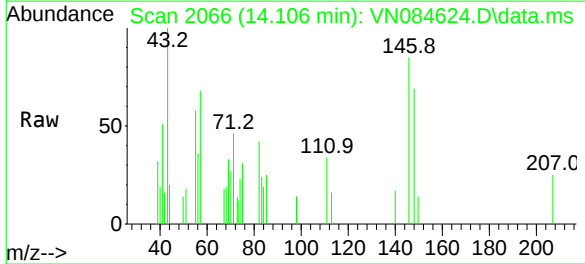
Tgt Ion: 91 Resp: 1456
Ion Ratio Lower Upper
91 100
92 51.0 0.0 106.2
134 28.5 0.0 48.2





#87
1,2-Dichlorobenzene
Concen: 0.418 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25

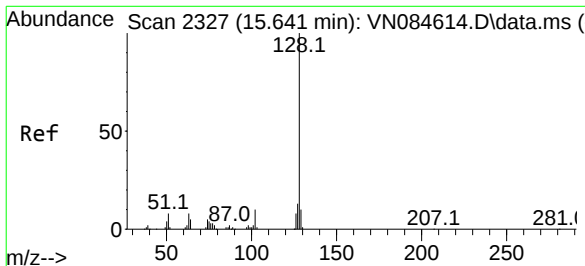
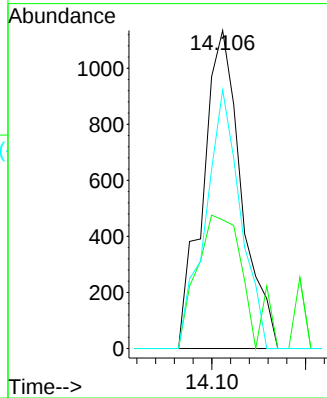
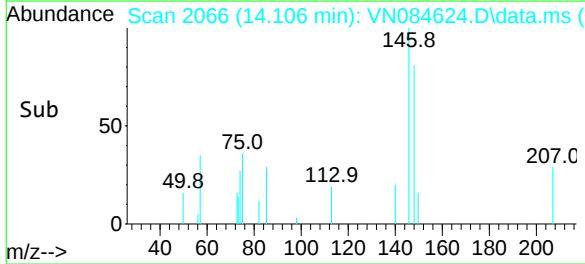
Instrument :
MSVOA_N
ClientSampleId :
241030069-01-VOA



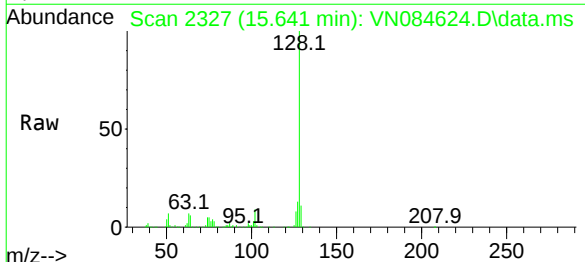
Tgt Ion:	146	Resp:	1621
Ion Ratio	Lower	Upper	
146	100		
111	46.8	22.4	67.0
148	73.8	32.6	98.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024
Supervised By :Mahesh Dadoda 11/04/2024



#91
Naphthalene
Concen: 33.999 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN084624.D
Acq: 31 Oct 2024 17:25



Tgt Ion:	128	Resp:	205176
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.3	15.5
129	11.1	8.6	12.8

