

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011524\
 Data File : VL040971.D
 Acq On : 15 Jan 2024 15:34
 Operator : SY/MD
 Sample : P1138-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/16/2024
 Supervised By :Mahesh Dadoda 01/16/2024

Quant Time: Jan 16 03:36:48 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Jan 16 03:31:29 2024

Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		5.192	49	1157774	10.000	ppbv	0.02
33) 1,4-Difluorobenzene		6.645	114	2841630	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.449	117	2410139	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.757	95	1777142	10.011	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.100%	
Target Compounds						Qvalue	
2) Dichlorodifluoromethane		2.745	85	115279	0.523	ppbv	99
4) Chloromethane		2.829	50	34948	0.544	ppbv	93
9) Propene		2.719	41	552565m	9.612	ppbv	
10) Heptane		7.571	43	169759	1.188	ppbv	97
11) Trichlorofluoromethane		3.571	101	42863	0.249	ppbv	84
13) Ethanol		3.247	45	515703	35.559	ppbv	98
15) Acetone		3.488	43	568506m	4.094	ppbv	
19) Isopropyl Alcohol		3.587	45	1785363	24.641	ppbv	99
20) Methylene Chloride		3.941	84	1456280	29.423	ppbv	96
26) Hexane		5.214	57	1598004	14.986	ppbv #	41
30) Cyclohexane		6.597	84	82034	0.923	ppbv	93
34) 2-Butanone		4.796	43	32092	0.213	ppbv #	90
35) Carbon Tetrachloride		6.488	117	12233m	0.069	ppbv	
36) Benzene		6.359	78	346956	1.562	ppbv	95
38) Trichloroethene		7.279	130	26021m	0.312	ppbv	
43) Methyl Methacrylate		7.465	69	80536m	0.924	ppbv	
44) 2,2,4-Trimethylpentane		7.317	57	362249	0.960	ppbv #	79
52) Tetrachloroethene		10.597	164	2843m	0.038	ppbv	
53) Toluene		9.205	91	1317856	5.350	ppbv	100
58) Ethyl Benzene		12.069	91	425891	1.376	ppbv	96
59) m/p-Xylene		12.327	91	1294508	4.916	ppbv #	100
60) o-Xylene		13.040	91	422330	1.702	ppbv	98
62) Isopropylbenzene		14.008	105	45317m	0.123	ppbv	
64) n-propylbenzene		14.889	120	11927m	0.129	ppbv	
72) 4-Ethyltoluene		15.172	105	67019	0.246	ppbv #	86
73) 1,3,5-Trimethylbenzene		15.333	105	50793	0.216	ppbv #	84
74) 1,2,4-Trimethylbenzene		16.089	105	220100	0.842	ppbv #	65

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

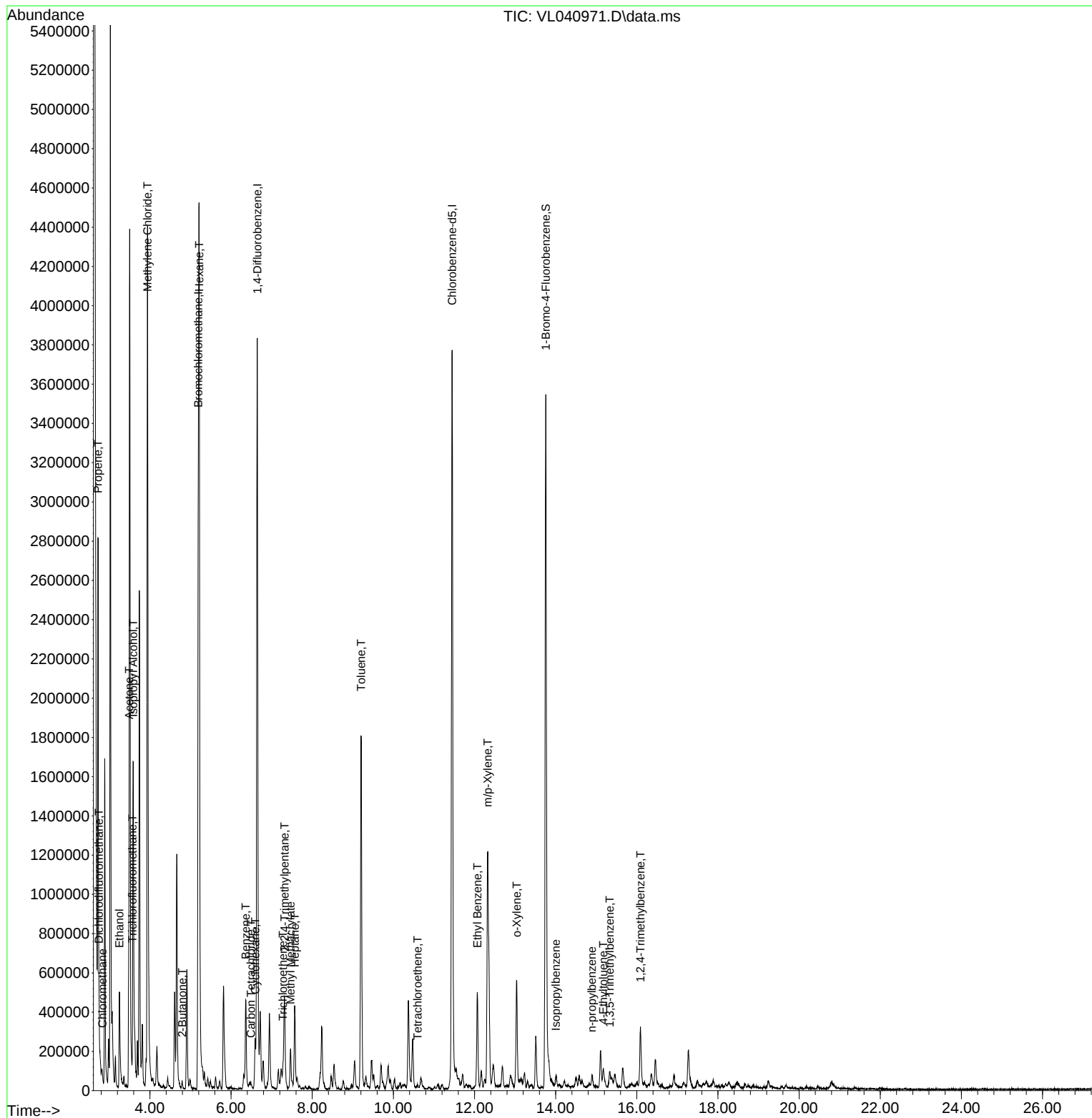
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011524\
Data File : VL040971.D
Acq On : 15 Jan 2024 15:34
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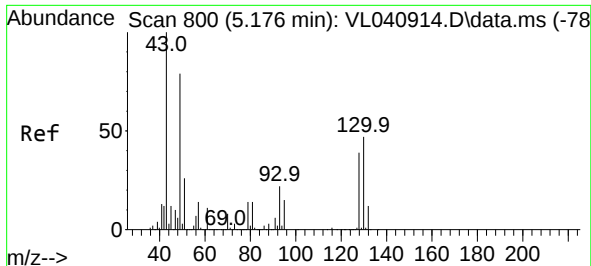
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Jan 16 03:36:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 16 03:31:29 2024
Response via : Initial Calibration

Manual Integrations
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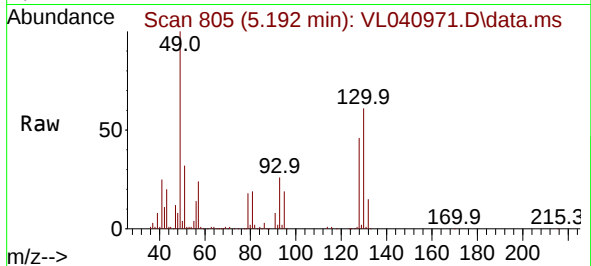
Reviewed By : Semsettin Yesilyurt 01/16/2024
Supervised By : Mahesh Dadoda 01/16/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.016 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

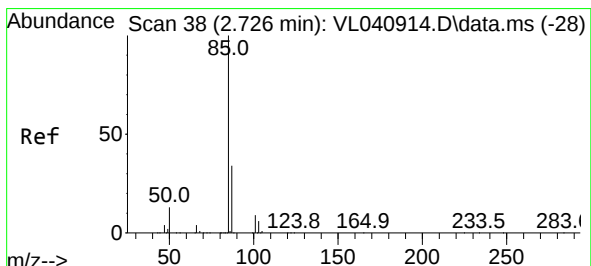
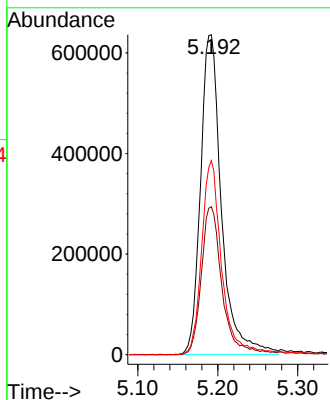
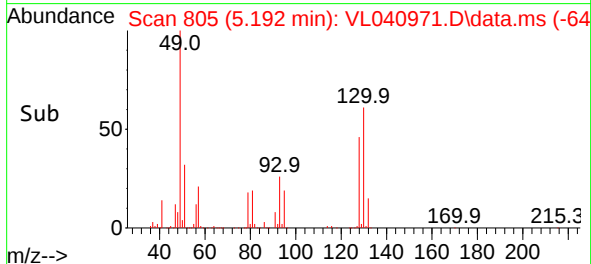
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 1157774
Ion Ratio Lower Upper
49 100
128 46.9 23.8 71.2
130 59.6 30.1 90.5

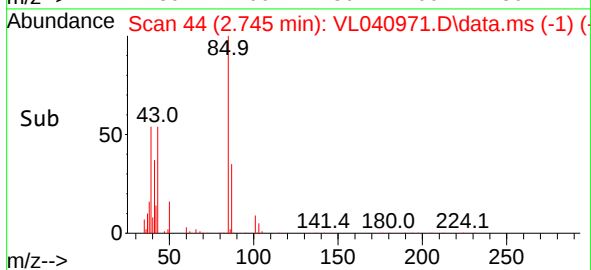
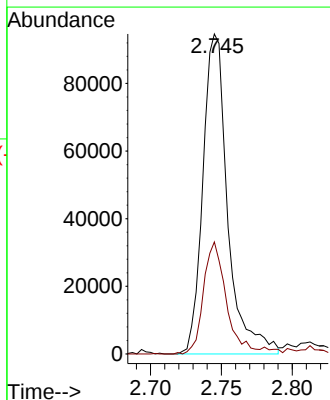
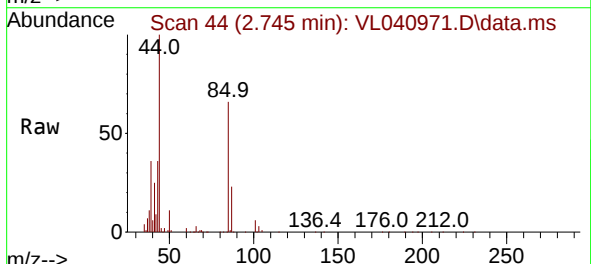
Manual Integrations
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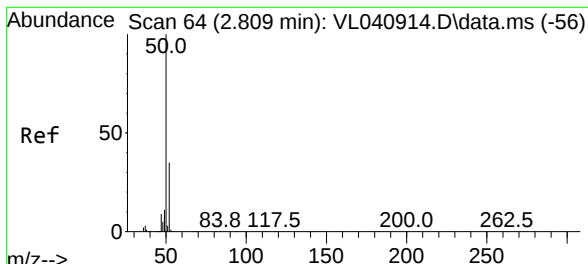
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#2
Dichlorodifluoromethane
Concen: 0.523 ppbv
RT: 2.745 min Scan# 44
Delta R.T. 0.023 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Tgt Ion: 85 Resp: 115279
Ion Ratio Lower Upper
85 100
87 34.5 27.0 40.6





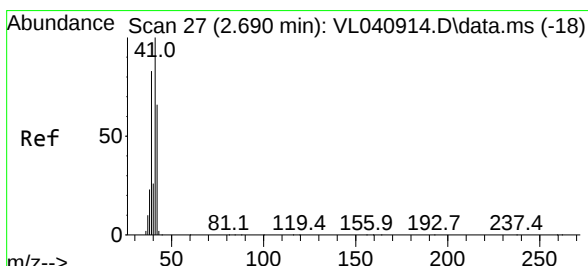
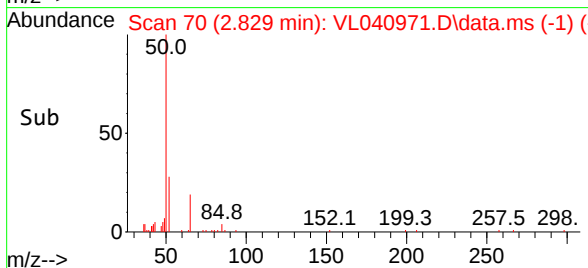
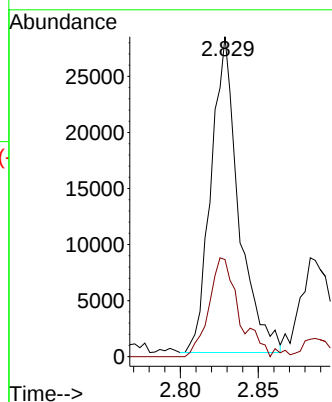
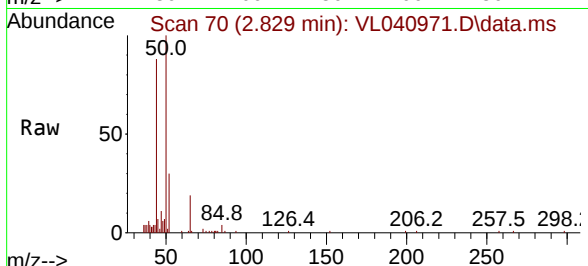
#4
Chloromethane
Concen: 0.544 ppbv
RT: 2.829 min Scan# 70
Delta R.T. 0.023 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 50 Resp: 34948
Ion Ratio Lower Upper
50 100
52 31.0 28.0 42.0

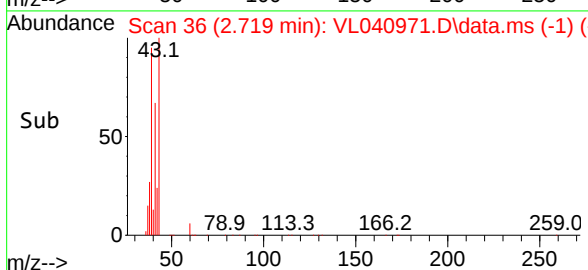
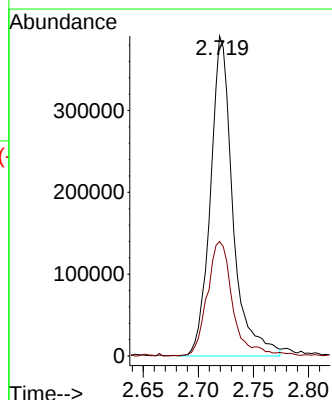
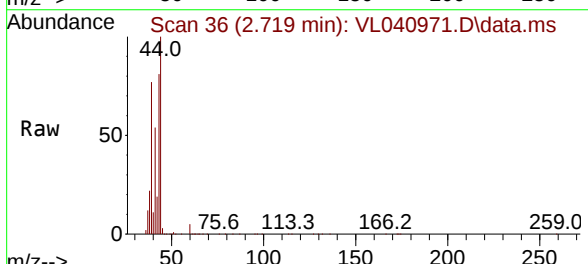
Manual Integrations
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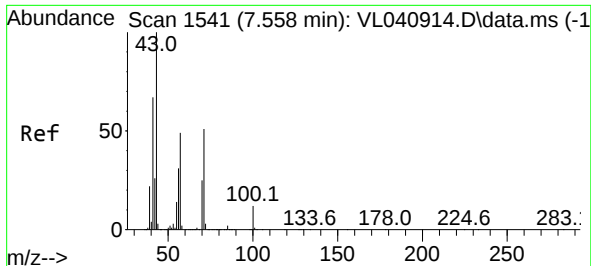
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#9
Propene
Concen: 9.612 ppbv m
RT: 2.719 min Scan# 36
Delta R.T. 0.032 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

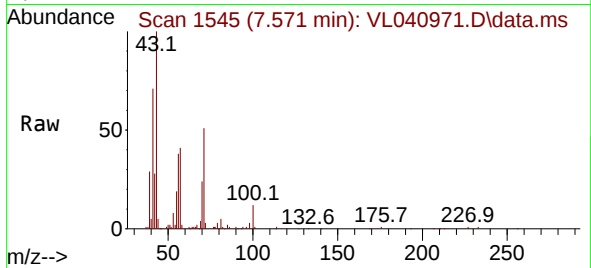
Tgt Ion: 41 Resp: 552565
Ion Ratio Lower Upper
41 100
42 53.4 55.8 83.6#





#10
Heptane
Concen: 1.188 ppbv
RT: 7.571 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

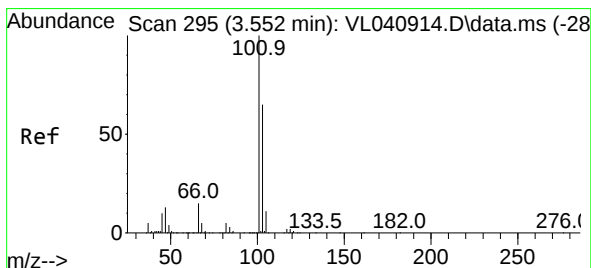
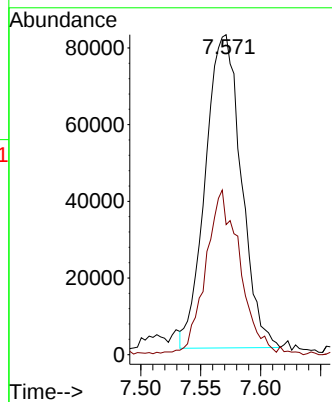
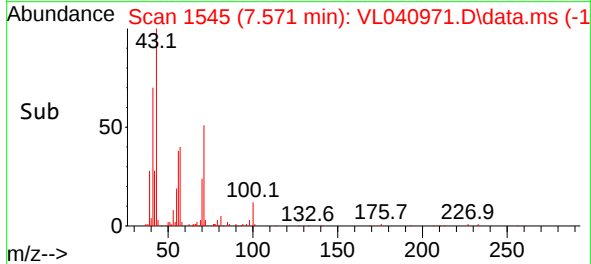
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 16975
Ion Ratio Lower Upper
43 100
57 51.4 39.3 58.9

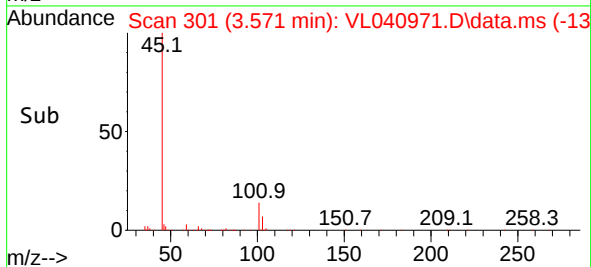
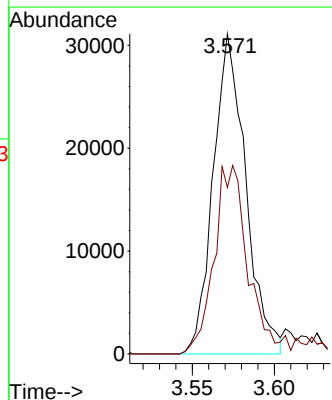
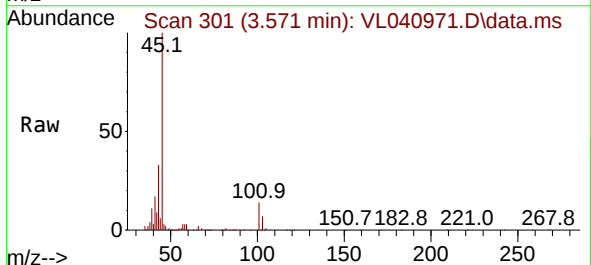
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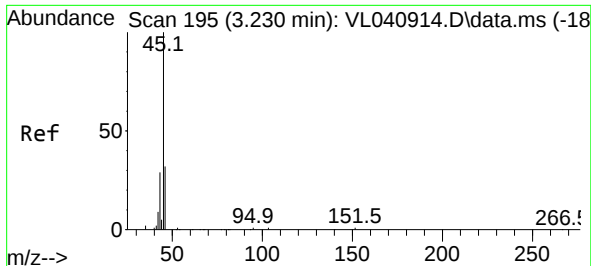
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.019 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

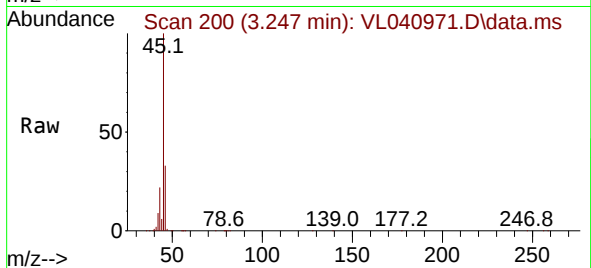
Tgt Ion:101 Resp: 42863
Ion Ratio Lower Upper
101 100
103 52.0 51.9 77.9





#13
Ethanol
Concen: 35.559 ppbv
RT: 3.247 min Scan# 200
Delta R.T. 0.016 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

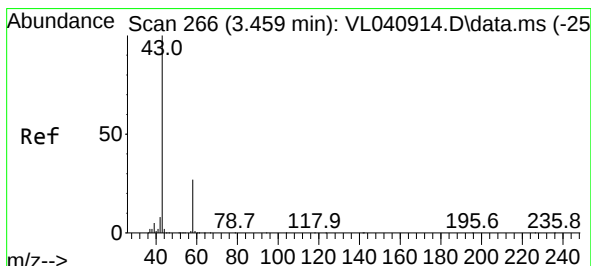
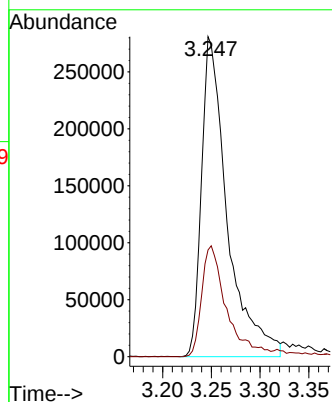
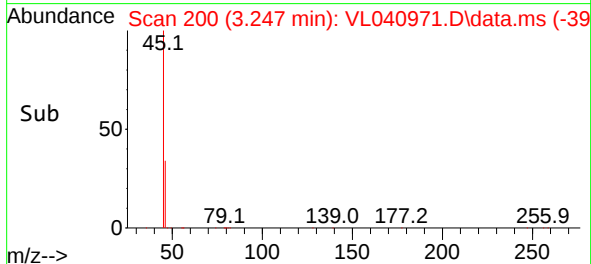
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 45 Resp: 51570
Ion Ratio Lower Upper
45 100
46 36.0 15.0 60.0

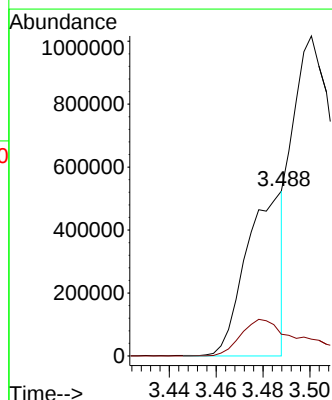
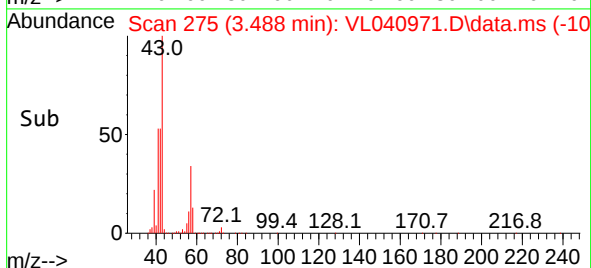
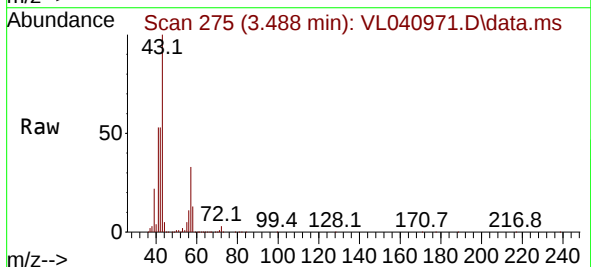
Manual Integrations
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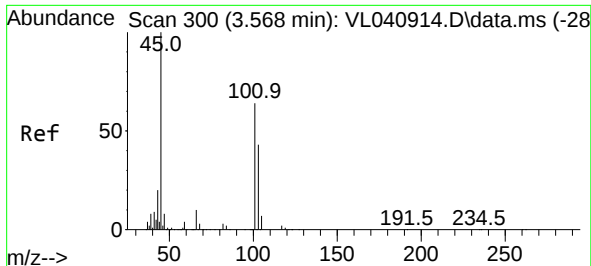
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#15
Acetone
Concen: 4.094 ppbv m
RT: 3.488 min Scan# 275
Delta R.T. 0.032 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Tgt Ion: 43 Resp: 568506
Ion Ratio Lower Upper
43 100
58 0.0 20.6 30.8#





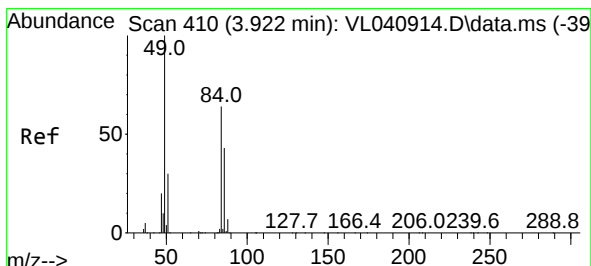
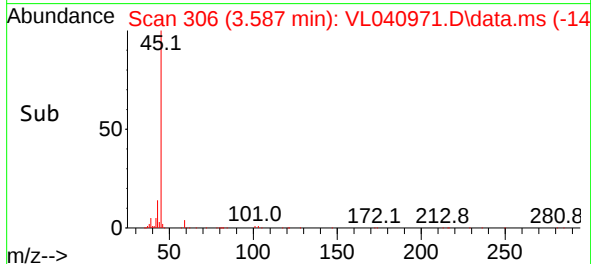
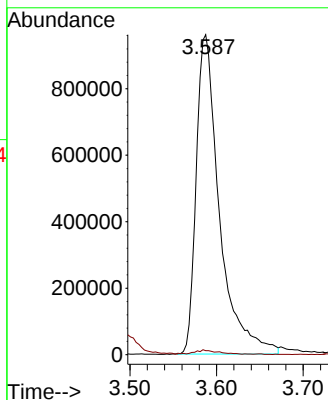
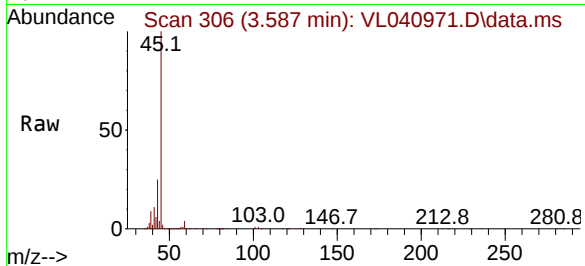
#19
Isopropyl Alcohol
Concen: 24.641 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.023 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 45 Resp: 178536
Ion Ratio Lower Upper
45 100
58 1.6 1.5 2.3

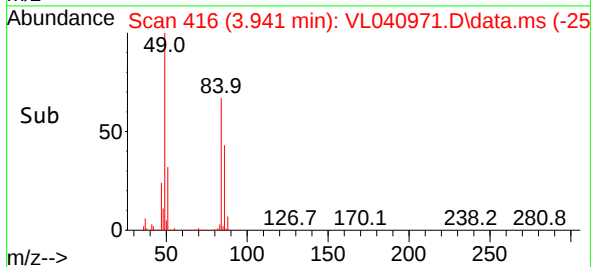
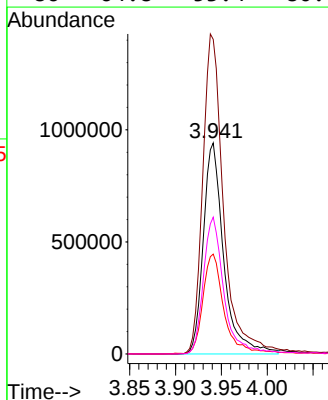
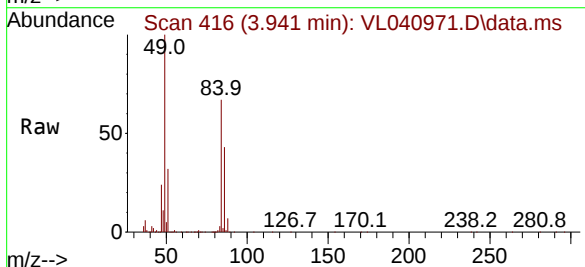
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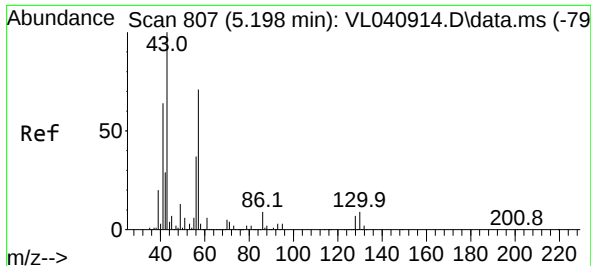
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#20
Methylene Chloride
Concen: 29.423 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.023 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

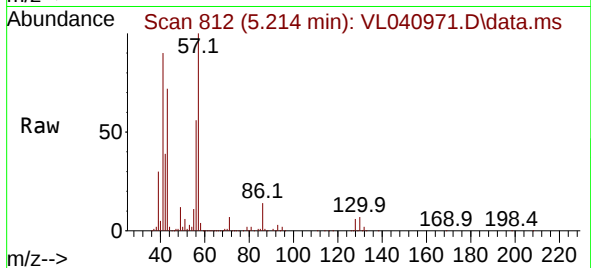
Tgt Ion: 84 Resp: 1456280
Ion Ratio Lower Upper
84 100
49 149.0 124.6 187.0
51 47.0 37.2 55.8
86 64.8 53.4 80.0





#26
Hexane
Concen: 14.986 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.019 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

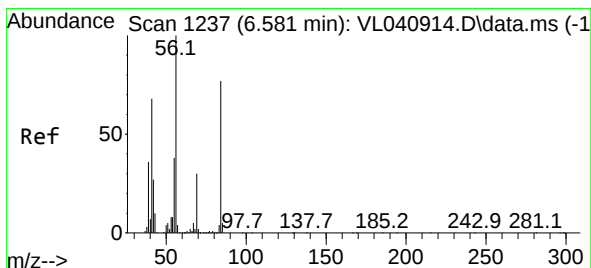
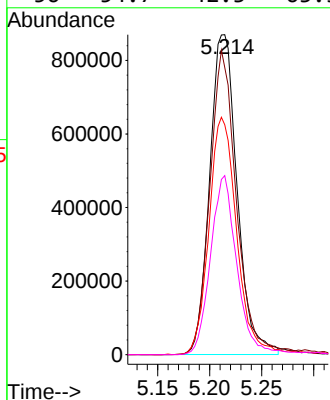
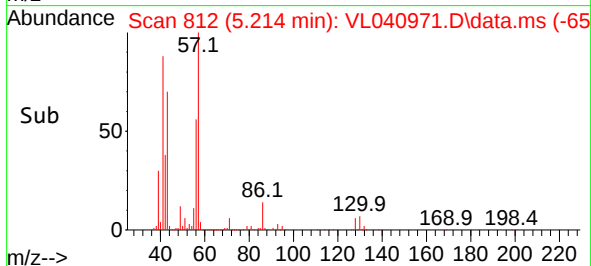
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 57 Resp: 1598004
Ion Ratio Lower Upper
57 100
41 94.1 75.2 112.8
43 76.1 188.0 282.0
56 54.7 42.3 63.5

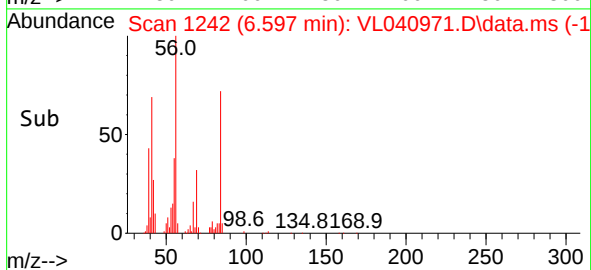
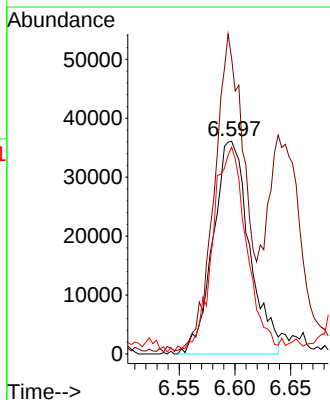
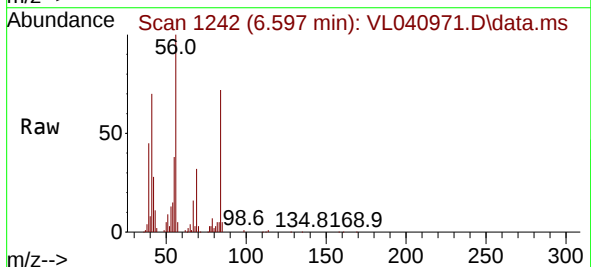
Manual Integrations
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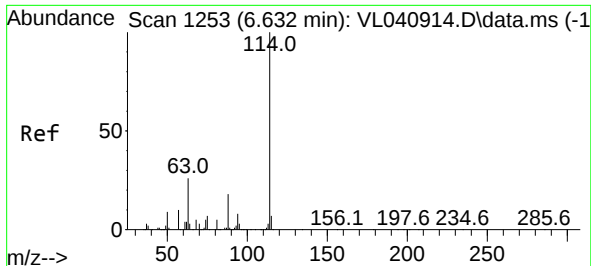
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#30
Cyclohexane
Concen: 0.923 ppbv
RT: 6.597 min Scan# 1242
Delta R.T. 0.013 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Tgt Ion: 84 Resp: 82034
Ion Ratio Lower Upper
84 100
56 128.9 111.4 167.2
41 92.0 70.0 105.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 114

Delta R.T. 0.010 min

Lab File: VL040971.D

Acq: 15 Jan 2024 15:34

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:114 Resp: 2841630

Ion Ratio Lower Upper

114 100

63 25.8 21.0 31.6

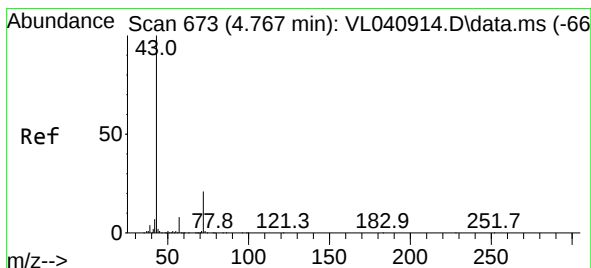
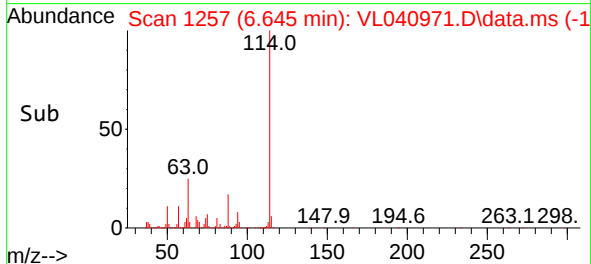
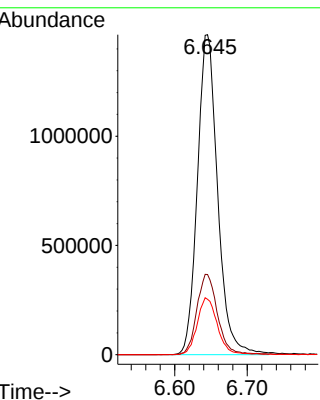
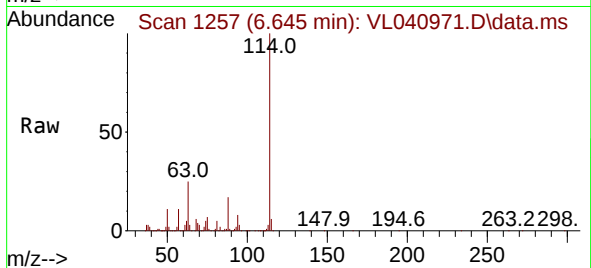
88 17.9 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/16/2024

Supervised By :Mahesh Dadoda 01/16/2024



#34

2-Butanone

Concen: 0.213 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.026 min

Lab File: VL040971.D

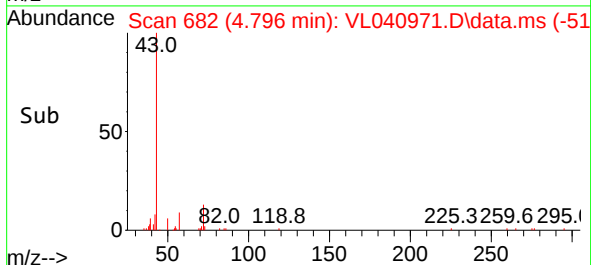
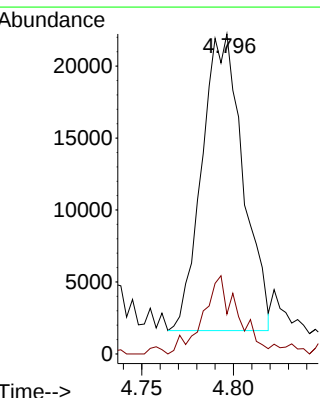
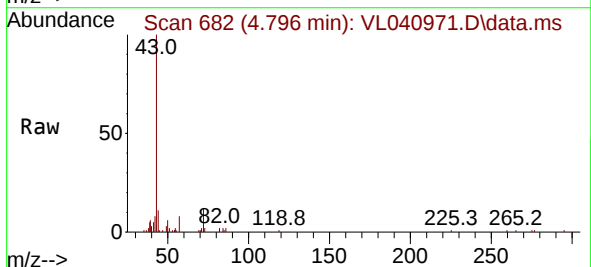
Acq: 15 Jan 2024 15:34

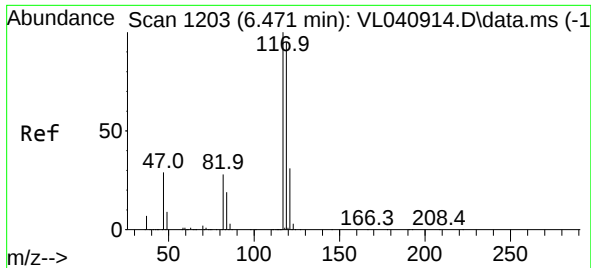
Tgt Ion: 43 Resp: 32092

Ion Ratio Lower Upper

43 100

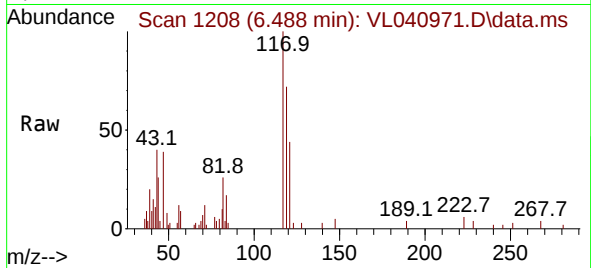
72 26.1 17.2 25.8#





#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 6.488 min Scan# 117
Delta R.T. 0.013 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

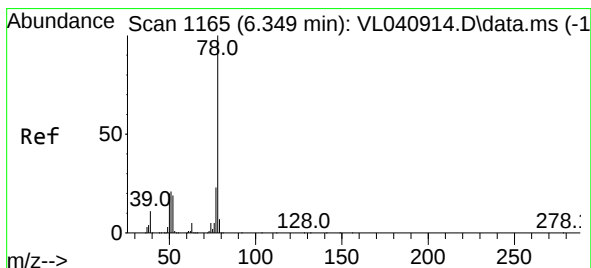
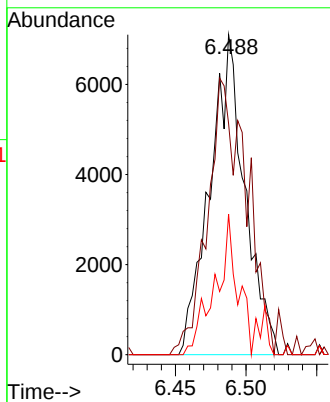
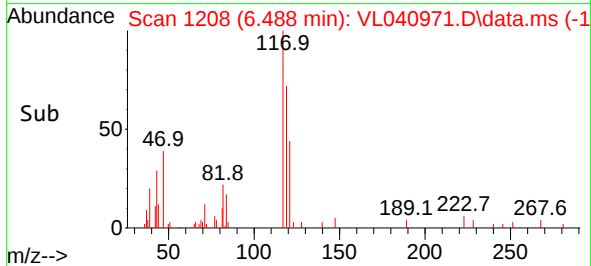
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



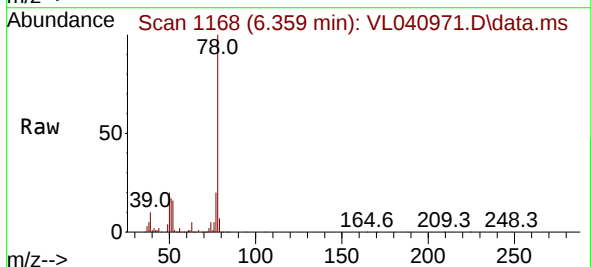
Tgt Ion:117 Resp: 1223
Ion Ratio Lower Upper
117 100
119 72.2 76.3 114.5
121 44.0 24.9 37.3

Manual Integrations
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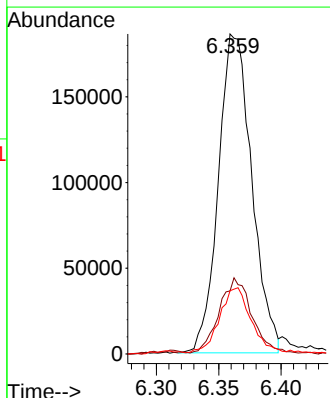
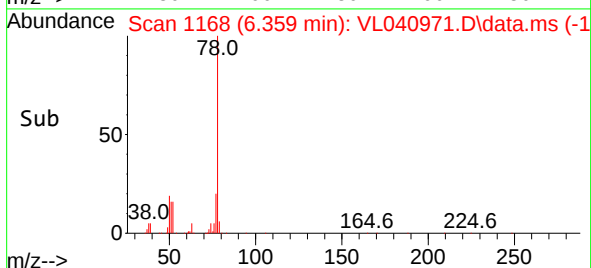
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024

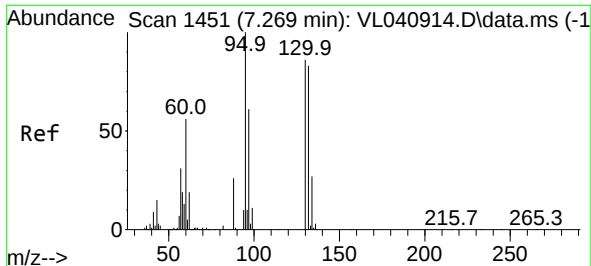


#36
Benzene
Concen: 1.562 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34



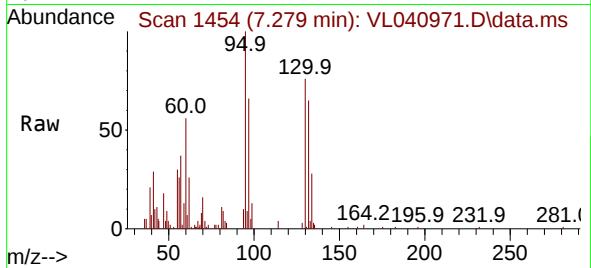
Tgt Ion: 78 Resp: 346956
Ion Ratio Lower Upper
78 100
77 18.9 18.4 27.6
50 19.2 16.0 24.0





#38
 Trichloroethene
 Concen: 0.312 ppbv m
 RT: 7.279 min Scan# 1451
 Delta R.T. 0.010 min
 Lab File: VL040971.D
 Acq: 15 Jan 2024 15:34

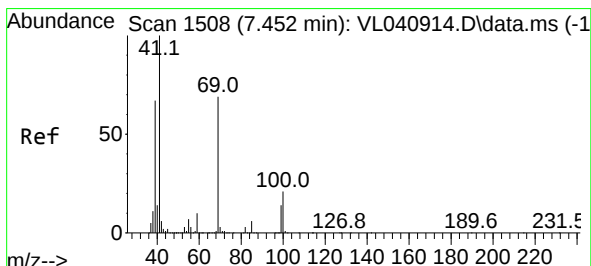
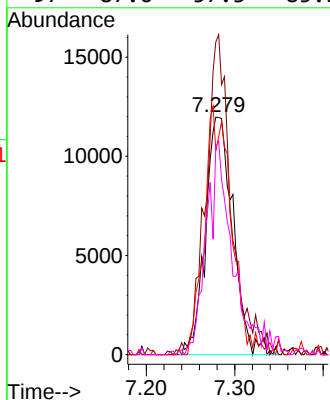
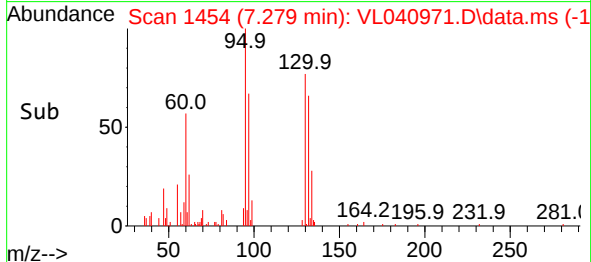
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion	Ratio	Lower	Upper
130	100		
95	131.7	93.5	140.3
132	86.0	77.4	116.2
97	87.6	57.3	85.9

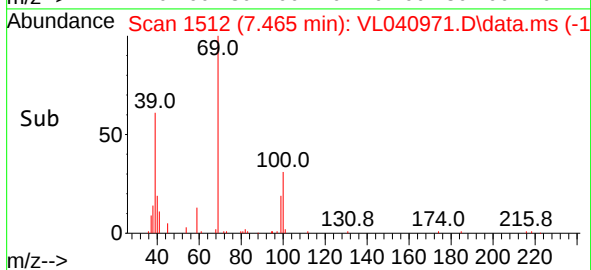
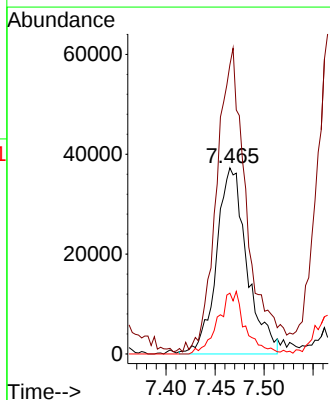
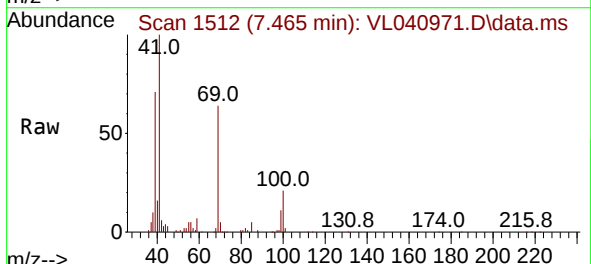
Manual Integrations
 APPROVED

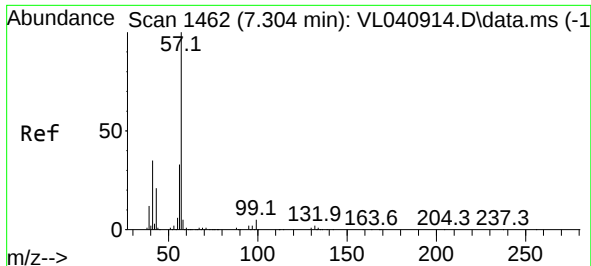
Reviewed By :Semsettin Yesilyurt 01/16/2024
 Supervised By :Mahesh Dadoda 01/16/2024



#43
 Methyl Methacrylate
 Concen: 0.924 ppbv m
 RT: 7.465 min Scan# 1512
 Delta R.T. 0.013 min
 Lab File: VL040971.D
 Acq: 15 Jan 2024 15:34

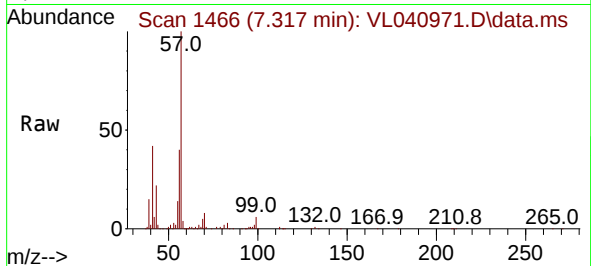
Tgt Ion	Ratio	Lower	Upper
69	100		
41	163.2	119.9	179.9
100	30.3	25.1	37.7





#44
2,2,4-Trimethylpentane
Concen: 0.960 ppbv
RT: 7.317 min Scan# 1466
Delta R.T. 0.010 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

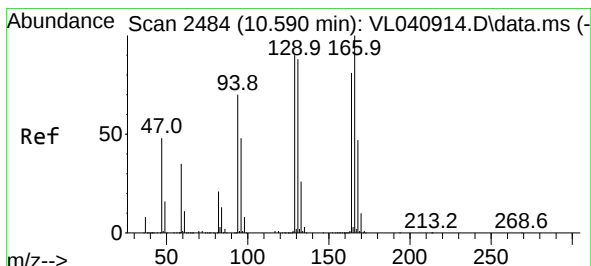
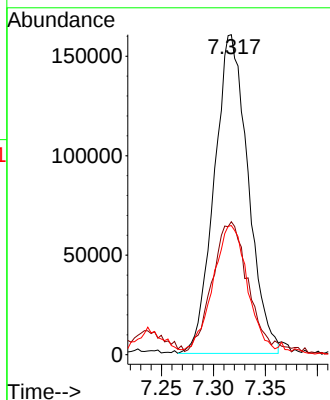
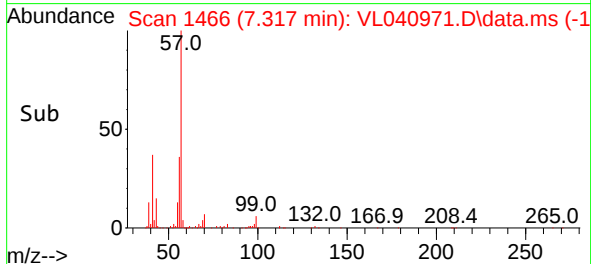
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



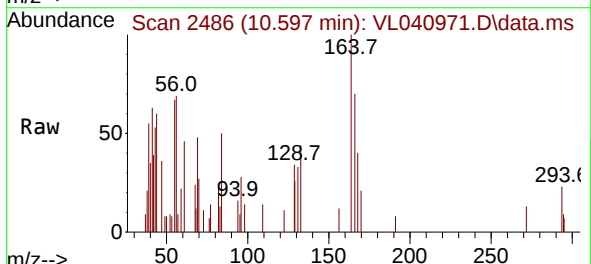
Tgt Ion: 57 Resp: 362249
Ion Ratio Lower Upper
57 100
41 46.5 28.2 42.4#
56 43.7 25.3 37.9#

Manual Integrations
APPROVED

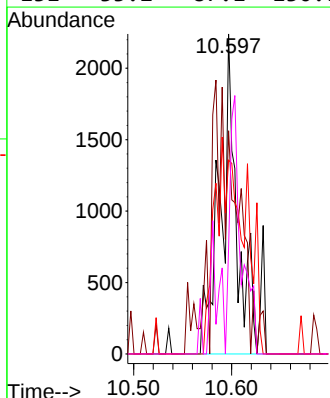
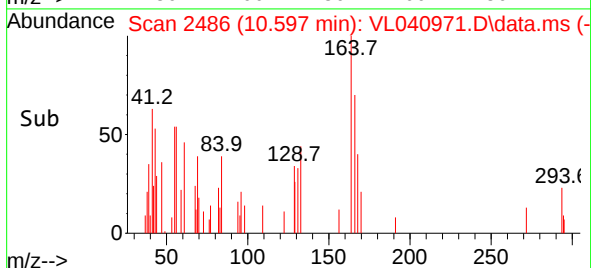
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024

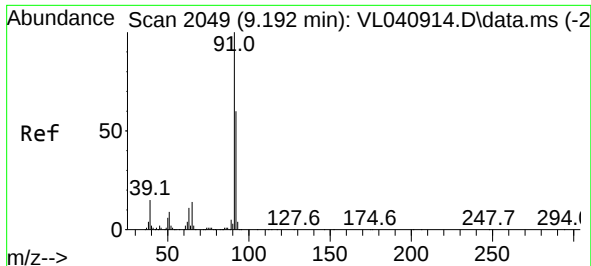


#52
Tetrachloroethene
Concen: 0.038 ppbv m
RT: 10.597 min Scan# 2486
Delta R.T. 0.003 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34



Tgt Ion:164 Resp: 2843
Ion Ratio Lower Upper
164 100
166 69.8 98.9 148.3#
129 34.3 88.7 133.1#
131 33.2 87.1 130.7#





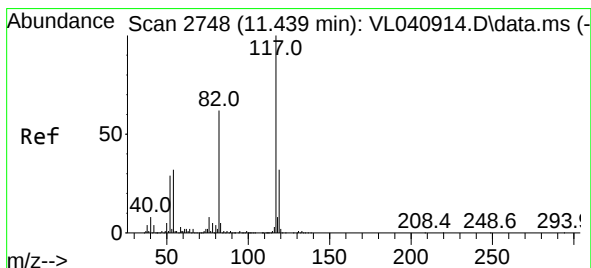
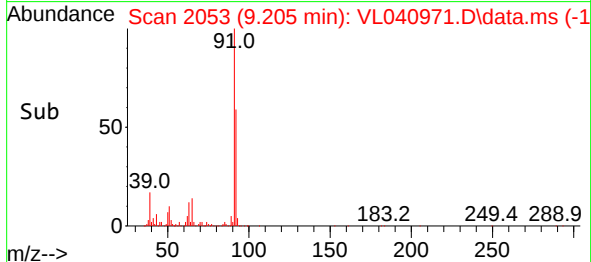
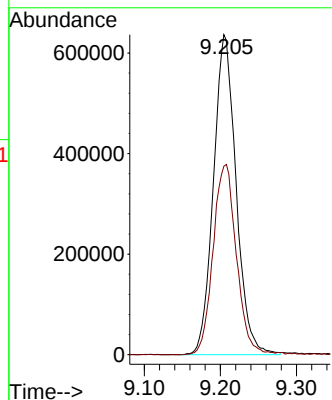
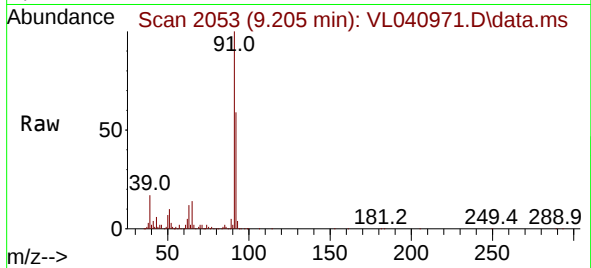
#53
Toluene
Concen: 5.350 ppbv
RT: 9.205 min Scan# 2049
Delta R.T. 0.006 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 131785
Ion Ratio Lower Upper
91 100
92 61.5 49.2 73.8

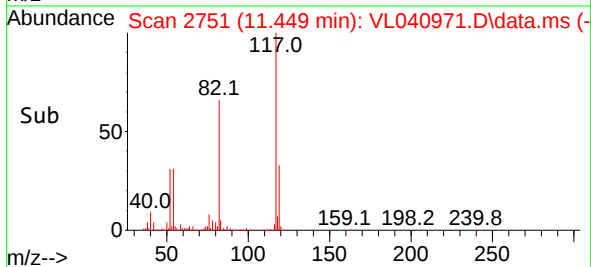
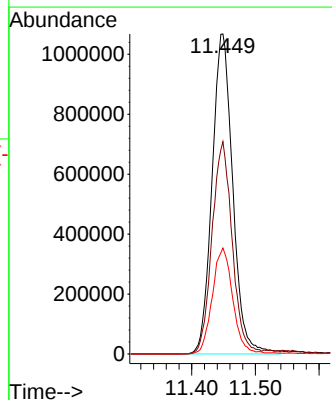
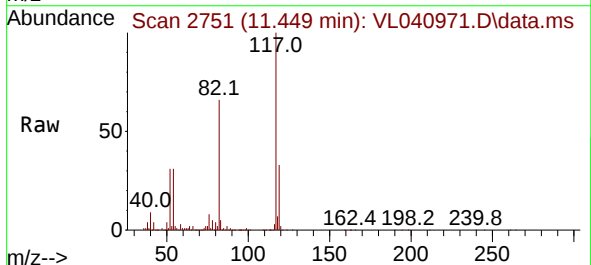
Manual Integrations
APPROVED

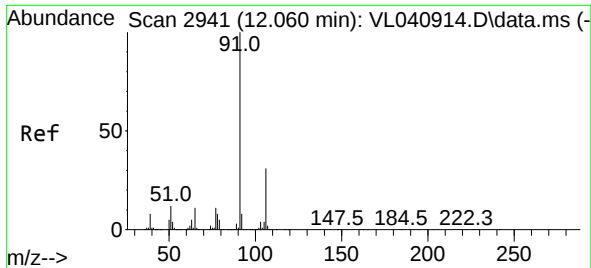
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. 0.006 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Tgt Ion:117 Resp: 2410139
Ion Ratio Lower Upper
117 100
82 67.2 49.6 74.4
119 33.1 23.4 35.0





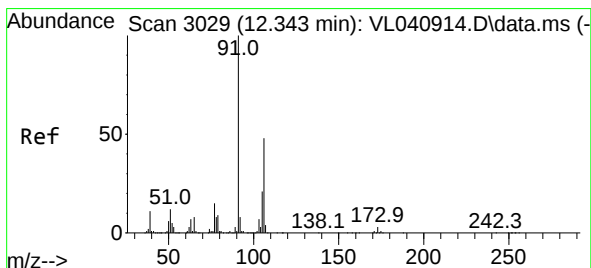
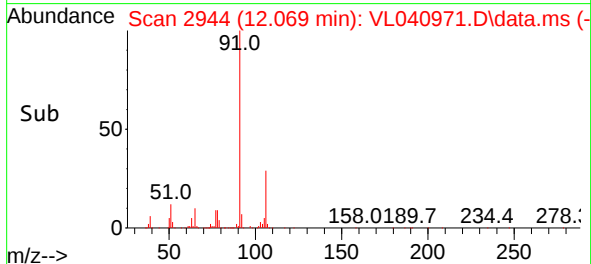
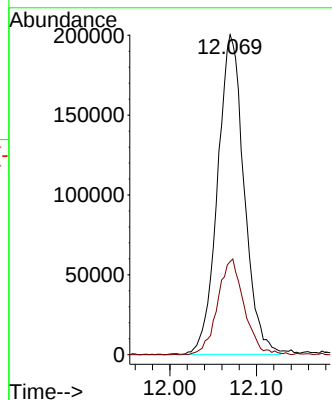
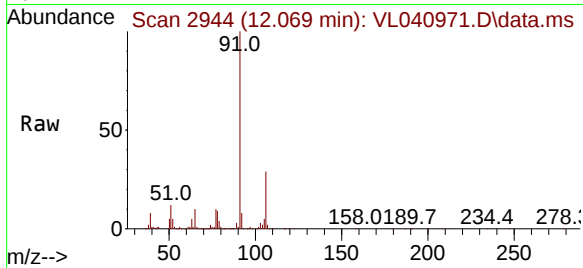
#58
Ethyl Benzene
Concen: 1.376 ppbv
RT: 12.069 min Scan# 2941
Delta R.T. 0.006 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Instrument :
MSVOA_L
Client SampleId :
IA1DUP

Tgt Ion: 91 Resp: 42589
Ion Ratio Lower Upper
91 100
106 29.1 24.9 37.3

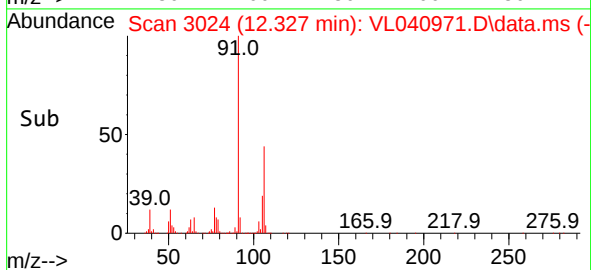
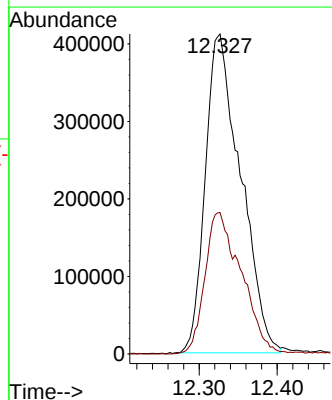
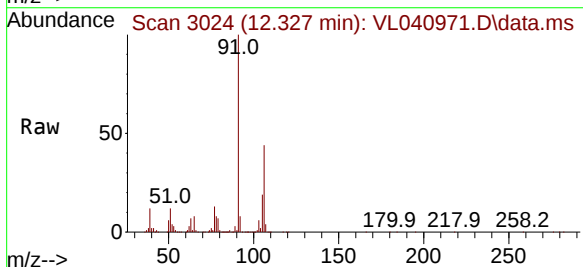
Manual Integrations
APPROVED

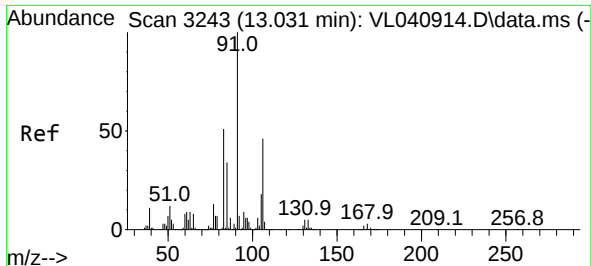
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#59
m/p-Xylene
Concen: 4.916 ppbv
RT: 12.327 min Scan# 3024
Delta R.T. -0.022 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Tgt Ion: 91 Resp: 1294508
Ion Ratio Lower Upper
91 100
106 45.8 0.0 0.0#





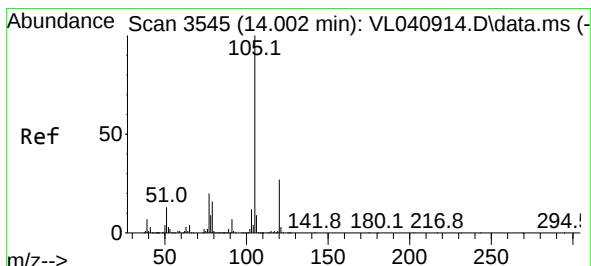
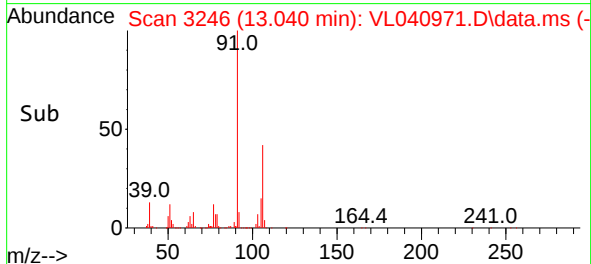
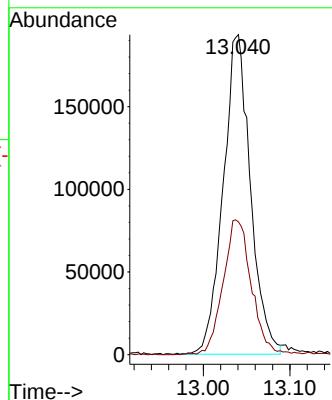
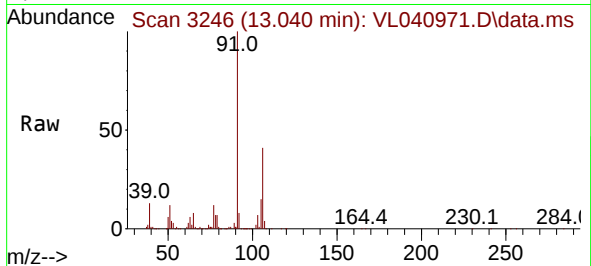
#60
o-Xylene
Concen: 1.702 ppbv
RT: 13.040 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 422330
Ion Ratio Lower Upper
91 100
106 44.0 22.6 67.7

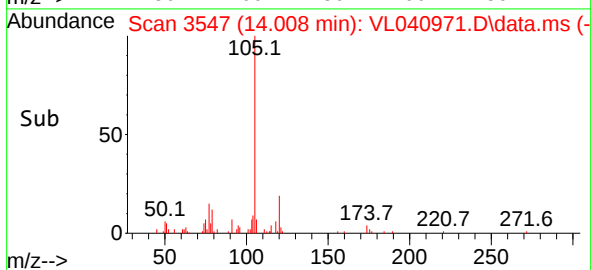
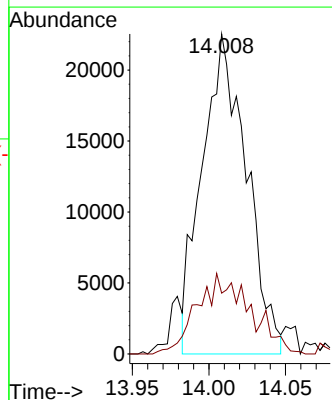
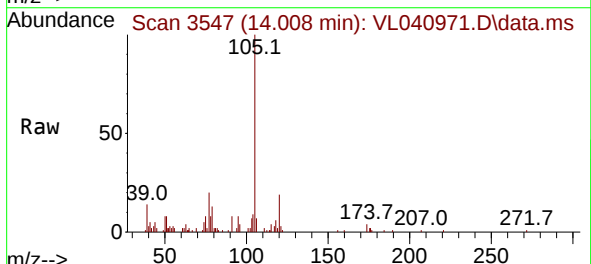
Manual Integrations
APPROVED

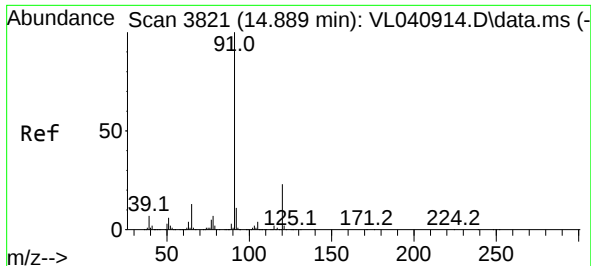
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#62
Isopropylbenzene
Concen: 0.123 ppbv m
RT: 14.008 min Scan# 3547
Delta R.T. 0.003 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

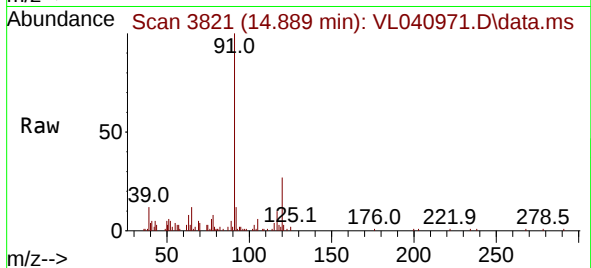
Tgt Ion:105 Resp: 45317
Ion Ratio Lower Upper
105 100
120 0.0 20.7 31.1#





#64
n-propylbenzene
Concen: 0.129 ppbv m
RT: 14.889 min Scan# 3821
Delta R.T. -0.003 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

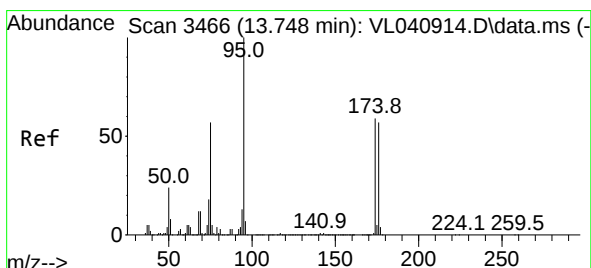
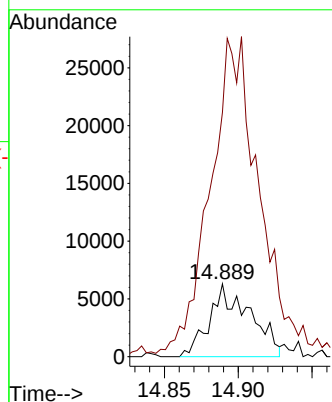
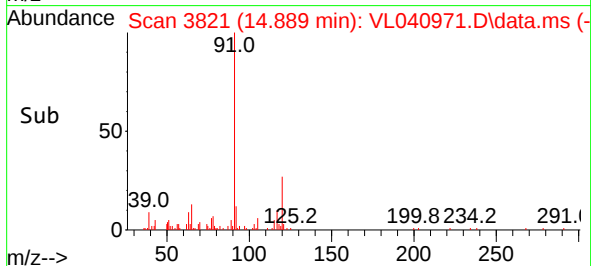
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



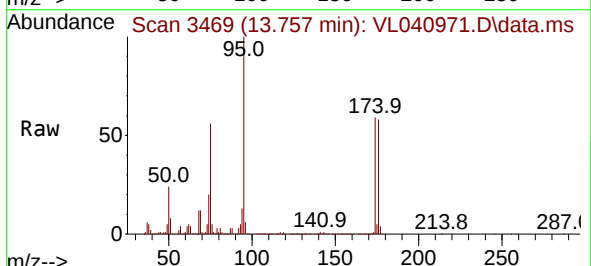
Tgt Ion:120 Resp: 1192
Ion Ratio Lower Upper
120 100
91 0.0 381.9 572.9

Manual Integrations
APPROVED

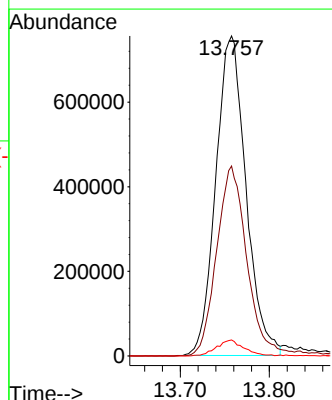
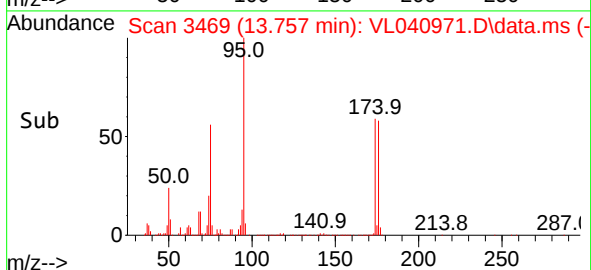
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024

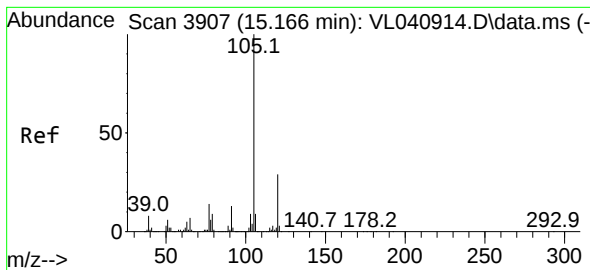


#68
1-Bromo-4-Fluorobenzene
Concen: 10.011 ppbv
RT: 13.757 min Scan# 3469
Delta R.T. 0.003 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34



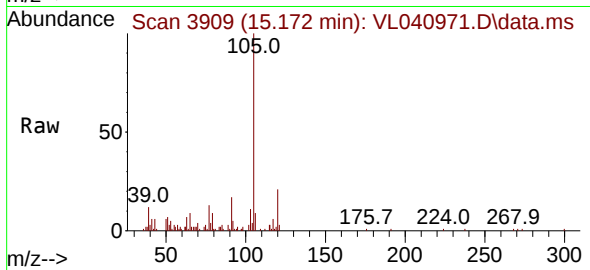
Tgt Ion: 95 Resp: 1777142
Ion Ratio Lower Upper
95 100
174 61.2 48.0 72.0
175 4.8 3.7 5.5





#72
4-Ethyltoluene
Concen: 0.246 ppbv
RT: 15.172 min Scan# 3909
Delta R.T. 0.003 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

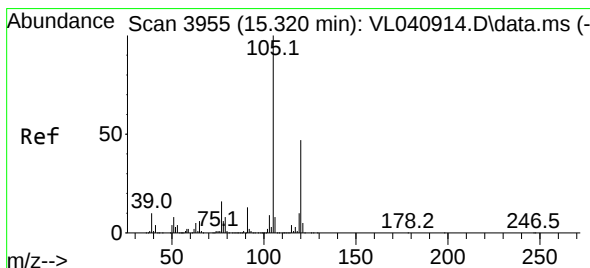
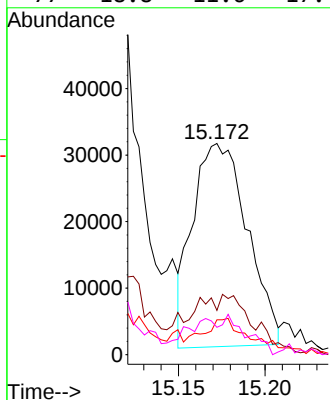
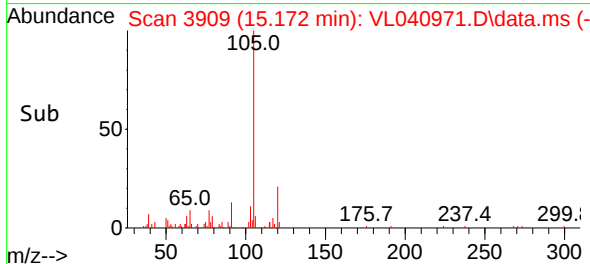
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:105 Resp: 67019
Ion Ratio Lower Upper
105 100
120 37.1 23.8 35.8
91 20.3 10.9 16.3
77 18.8 11.6 17.4#

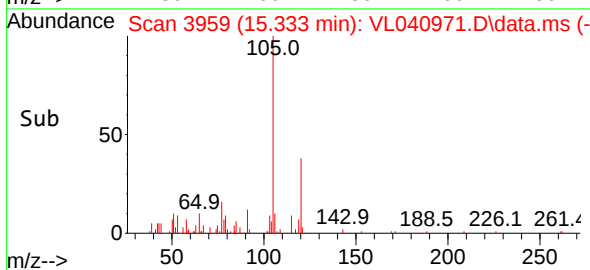
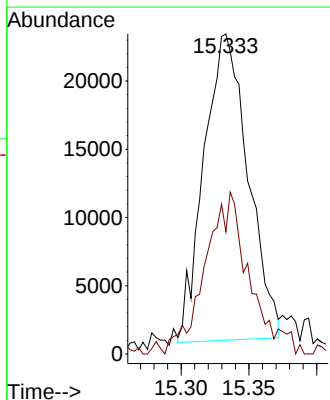
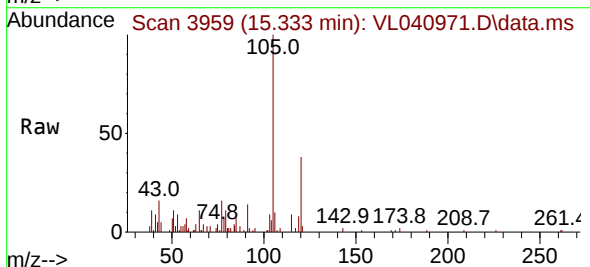
Manual Integrations
APPROVED

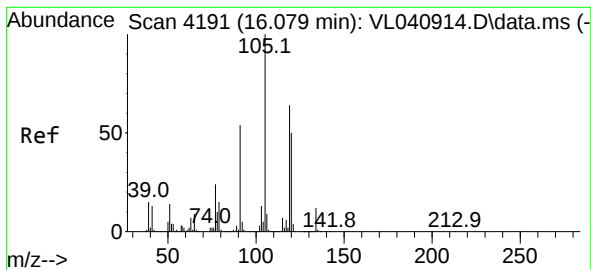
Reviewed By :Semsettin Yesilyurt 01/16/2024
Supervised By :Mahesh Dadoda 01/16/2024



#73
1,3,5-Trimethylbenzene
Concen: 0.216 ppbv
RT: 15.333 min Scan# 3959
Delta R.T. 0.003 min
Lab File: VL040971.D
Acq: 15 Jan 2024 15:34

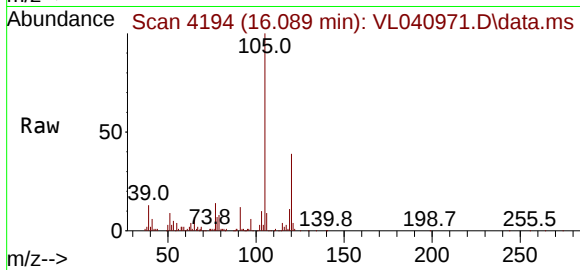
Tgt Ion:105 Resp: 50793
Ion Ratio Lower Upper
105 100
120 36.8 37.8 56.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.842 ppbv
 RT: 16.089 min Scan# 4194
 Delta R.T. 0.003 min
 Lab File: VL040971.D
 Acq: 15 Jan 2024 15:34

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion:	105	Resp:	220100
Ion	Ratio	Lower	Upper
105	100		
120	39.1	40.2	60.4
91	11.6	43.0	64.6
77	12.9	18.9	28.3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/16/2024
 Supervised By :Mahesh Dadoda 01/16/2024

