

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040927.D
 Acq On : 21 Dec 2023 13:12
 Operator : SY/MD
 Sample : 05813-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10311DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023

Quant Time: Dec 22 00:06:13 2023

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 : Thu Dec 21 07:32:42 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1187871	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.636	114	2999505	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	2461896	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	1750981	9.656	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.755	85	105532	0.466	ppbv	97
3) Chlorodifluoromethane	2.677	51	197957	1.107	ppbv #	67
9) Propene	2.732	41	320764	5.438	ppbv #	77
10) Heptane	7.558	43	159972	1.091	ppbv	95
11) Trichlorofluoromethane	3.571	101	38058m	0.215	ppbv	
13) Ethanol	3.253	45	1348050	90.597	ppbv	100
15) Acetone	3.481	43	1469134	10.312	ppbv	97
19) Isopropyl Alcohol	3.591	45	6877920	92.521	ppbv #	97
20) Methylene Chloride	3.941	84	251357	4.950	ppbv	96
25) Ethyl Acetate	5.205	43	364385	1.476	ppbv #	90
26) Hexane	5.208	57	329033	3.008	ppbv #	56
27) Carbon Disulfide	4.131	76	69052	0.466	ppbv #	95
28) Methyl tert-Butyl Ether	4.594	73	31862	0.314	ppbv #	91
30) Cyclohexane	6.590	84	62051m	0.680	ppbv	
34) 2-Butanone	4.783	43	101769m	0.641	ppbv	
35) Carbon Tetrachloride	6.484	117	11751m	0.063	ppbv	
36) Benzene	6.356	78	178010	0.759	ppbv	94
44) 2,2,4-Trimethylpentane	7.308	57	346038	0.869	ppbv #	85
53) Toluene	9.195	91	758774	2.918	ppbv	100
58) Ethyl Benzene	12.053	91	171762m	0.543	ppbv	
59) m/p-Xylene	12.317	91	517005m	1.922	ppbv	
60) o-Xylene	13.031	91	167738m	0.662	ppbv	
72) 4-Ethyltoluene	15.166	105	52141m	0.187	ppbv	
73) 1,3,5-Trimethylbenzene	15.320	105	39365m	0.164	ppbv	
74) 1,2,4-Trimethylbenzene	16.076	105	146415m	0.548	ppbv	

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

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Supervised By :Mahesh Dadoda 12/26/2023

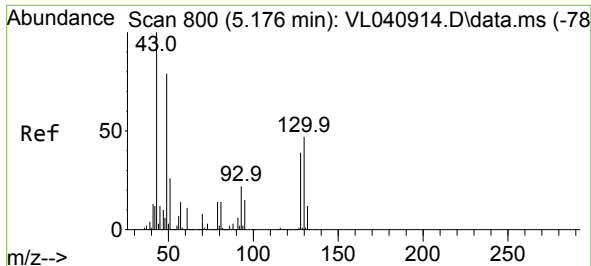
Abundance

TIC: VL040927.D\data.ms

Time-->

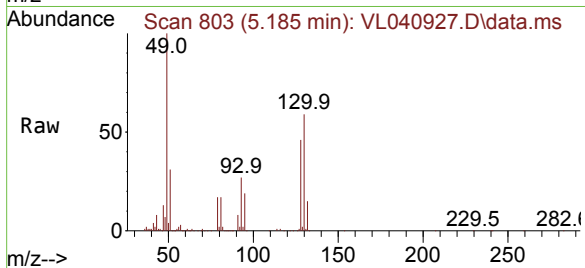
Chloroethane, T
Dichloromethane, T
Propene, T
Ethanol, T
Acetone, T
Hexafluoroethane, T
Methylene Chloride, T
Carbon Disulfide, T
Methyl tert-Butyl Ether, T
2-Butanone, T
Hexane, Ethyl Acetate, T
Benzene, T
Carbon tetrachloride, T
2,2,4-Trimethylpentane, T
Heptane, T
Toluene, T
Ethyl Benzene, T
m/p-Xylene, T
o-Xylene, T
1-Bromo-4-Fluorobenzene, S
4-Ethyltoluene, T
1,3,5-Trimethylbenzene, T
1,2,4-Trimethylbenzene, T

Isopropyl Alcohol, T
1,4-Difluorobenzene, I
Chlorobenzene-d5, I



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

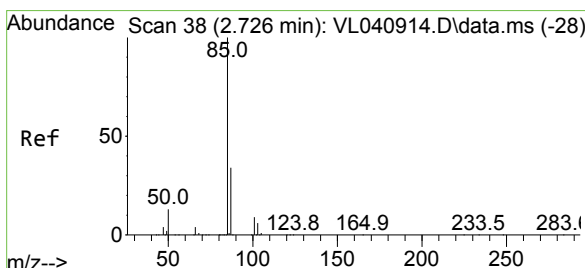
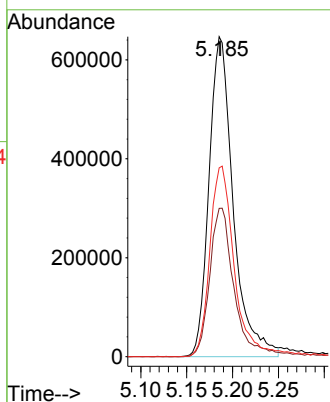
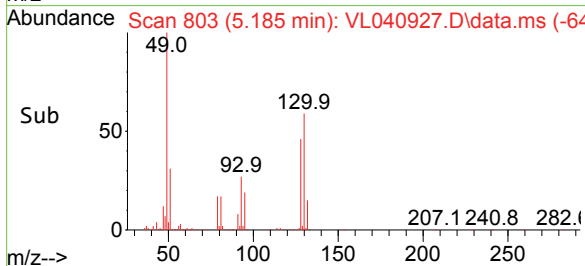
Instrument :
MSVOA_L
ClientSampleId :
10311DUP



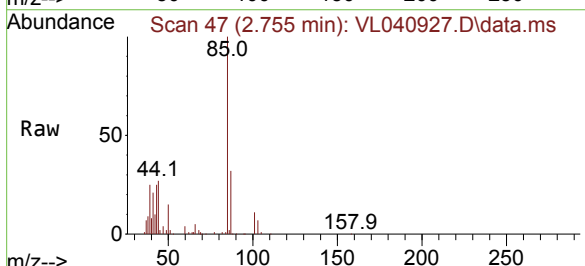
Tgt Ion: 49 Resp: 118787
Ion Ratio Lower Upper
49 100
128 48.1 23.8 71.2
130 61.9 30.1 90.5

Manual Integrations
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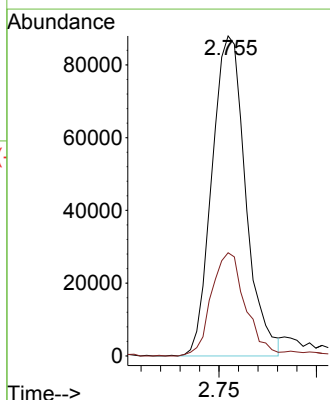
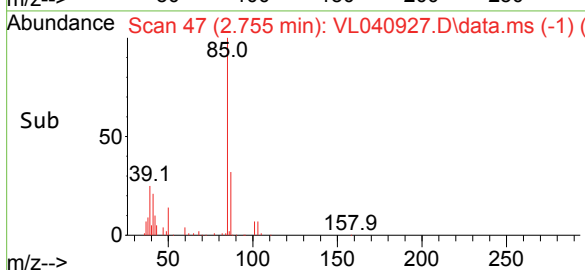
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

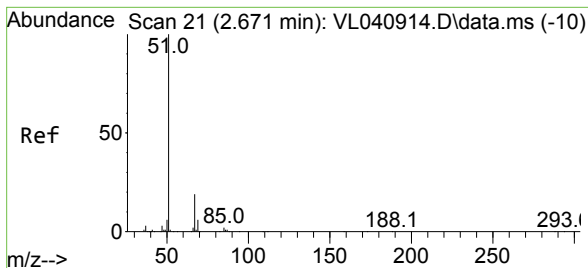


#2
Dichlorodifluoromethane
Concen: 0.466 ppbv
RT: 2.755 min Scan# 47
Delta R.T. 0.029 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12



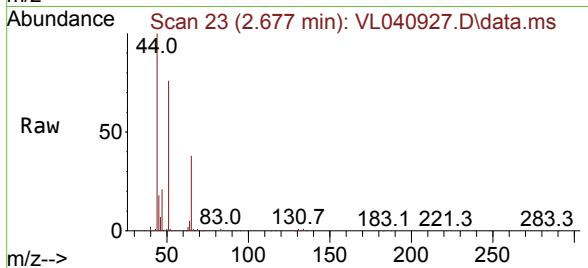
Tgt Ion: 85 Resp: 105532
Ion Ratio Lower Upper
85 100
87 32.3 27.0 40.6





#3
Chlorodifluoromethane
Concen: 1.107 ppbv
RT: 2.677 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

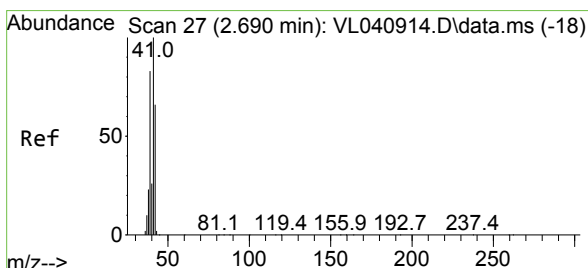
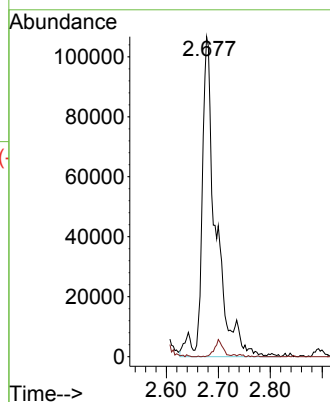
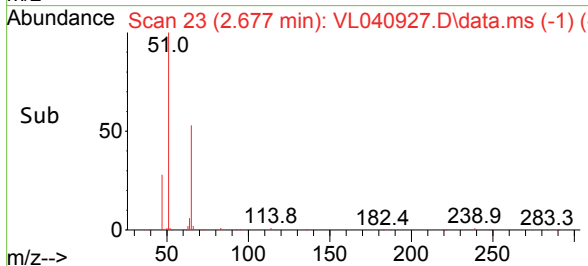
Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion: 51 Resp: 19795
Ion Ratio Lower Upper
51 100
67 3.6 14.7 22.1

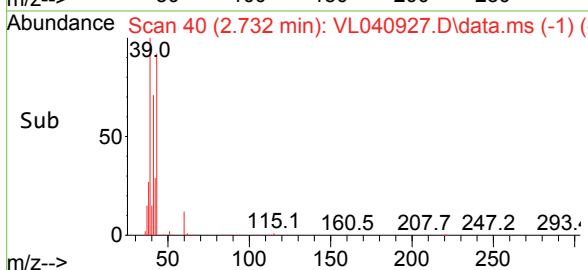
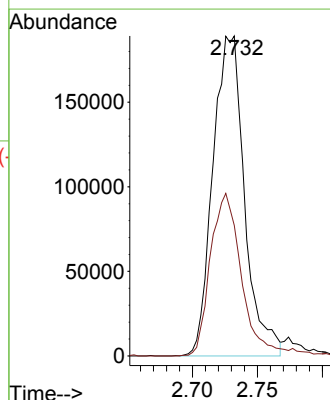
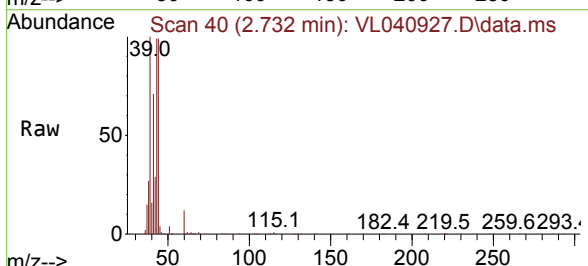
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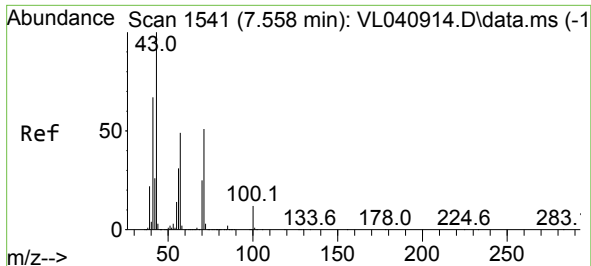
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#9
Propene
Concen: 5.438 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.042 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

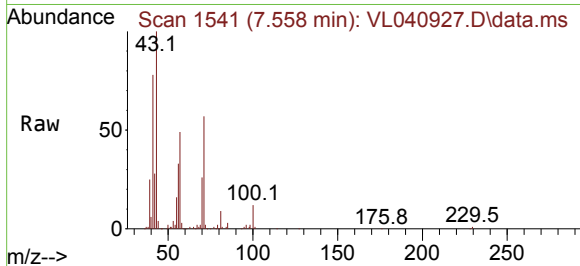
Tgt Ion: 41 Resp: 320764
Ion Ratio Lower Upper
41 100
42 50.8 55.8 83.6





#10
Heptane
Concen: 1.091 ppbv
RT: 7.558 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

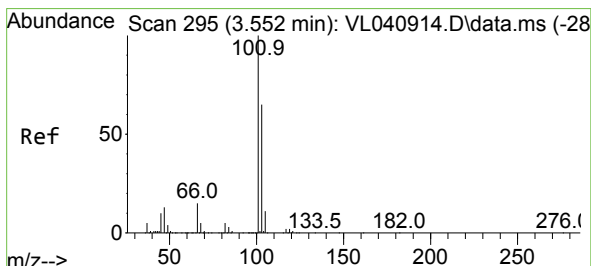
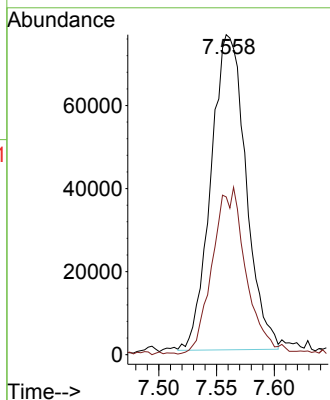
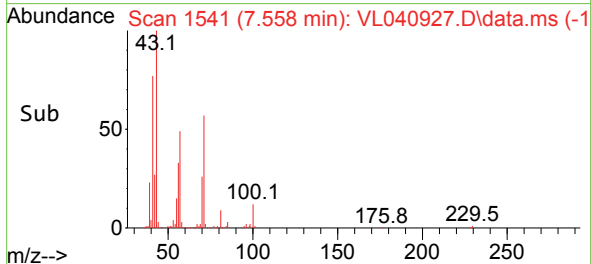
Instrument :
MSVOA_L
ClientSampleId :
10311DUP



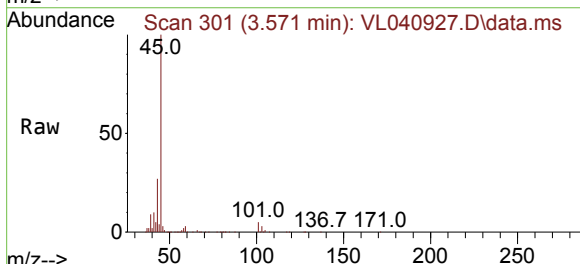
Tgt Ion: 43 Resp: 159972
Ion Ratio Lower Upper
43 100
57 52.5 39.3 58.9

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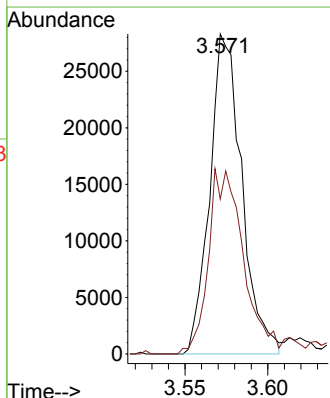
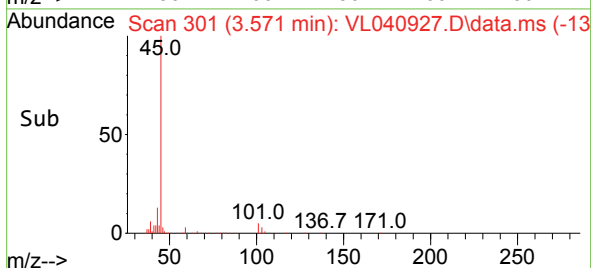
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Supervised By :Mahesh Dadoda 12/26/2023

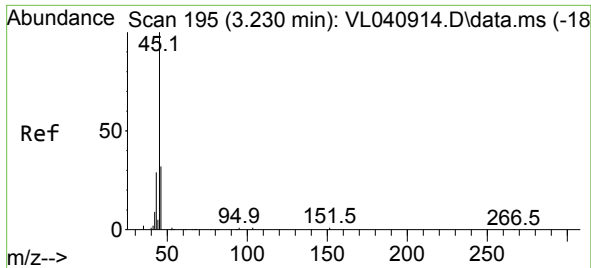


#11
Trichlorofluoromethane
Concen: 0.215 ppbv m
RT: 3.571 min Scan# 301
Delta R.T. 0.019 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12



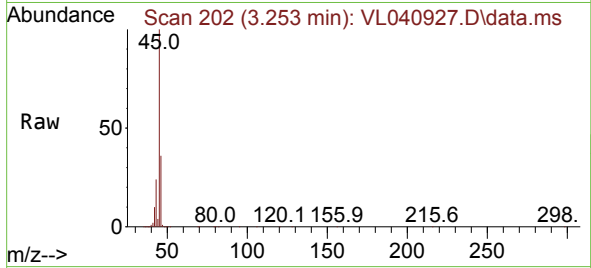
Tgt Ion:101 Resp: 38058
Ion Ratio Lower Upper
101 100
103 48.4 51.9 77.9#





#13
Ethanol
Concen: 90.597 ppbv
RT: 3.253 min Scan# 202
Delta R.T. 0.023 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

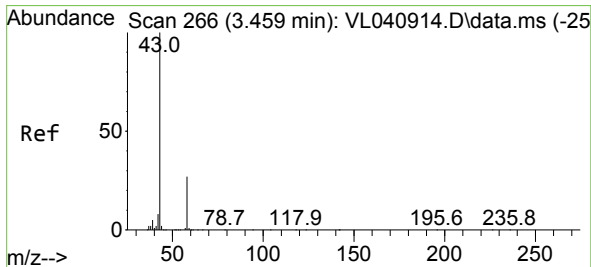
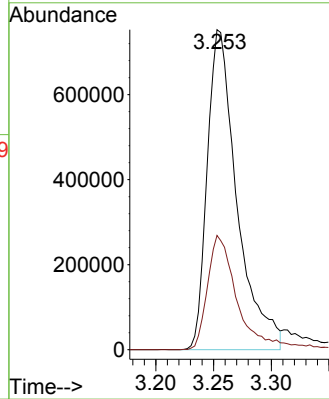
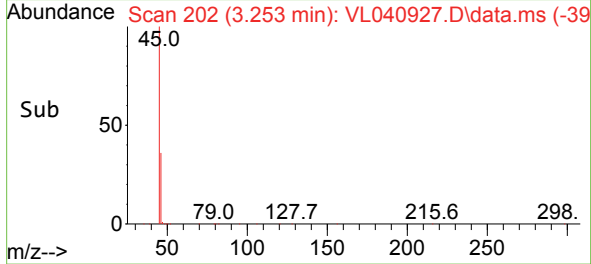
Instrument :
MSVOA_L
ClientSampleId :
10311DUP



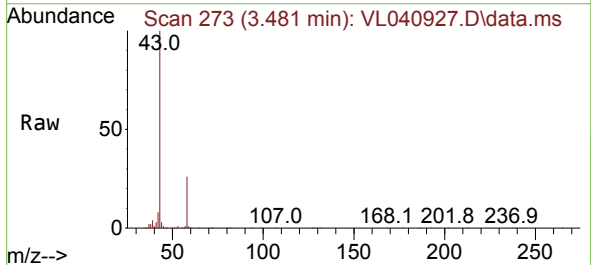
Tgt Ion: 45 Resp: 1348050
Ion Ratio Lower Upper
45 100
46 37.5 15.0 60.0

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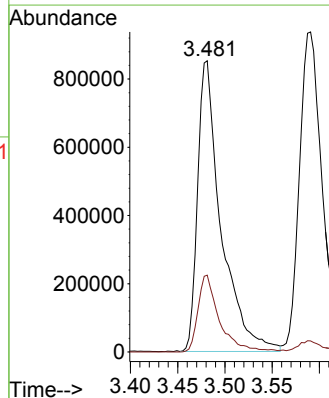
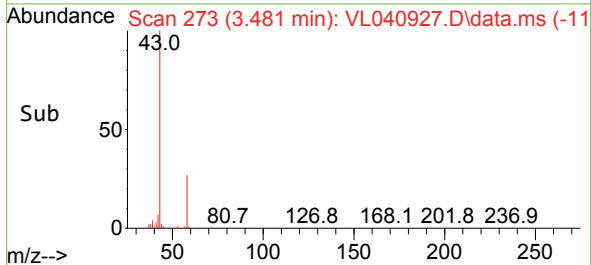
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

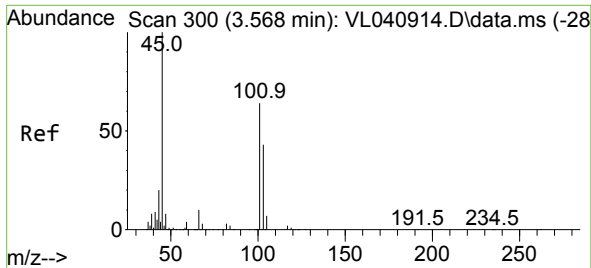


#15
Acetone
Concen: 10.312 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.023 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12



Tgt Ion: 43 Resp: 1469134
Ion Ratio Lower Upper
43 100
58 24.2 20.6 30.8





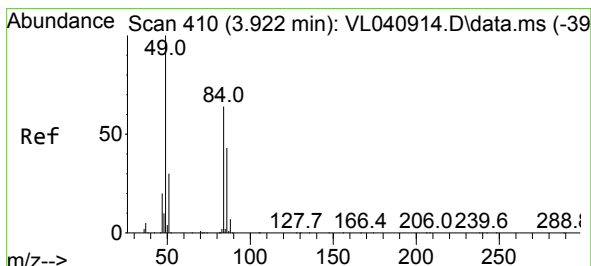
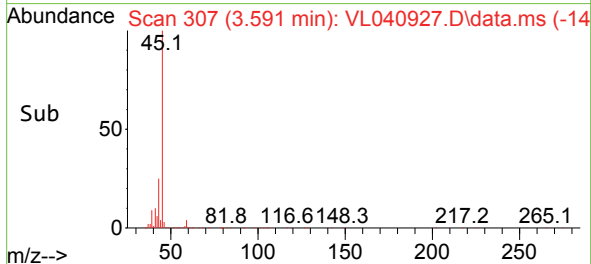
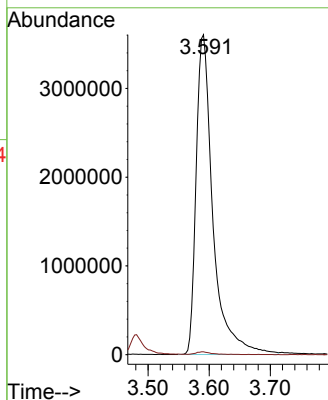
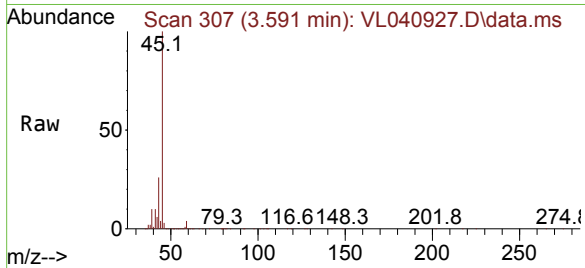
#19
Isopropyl Alcohol
Concen: 92.521 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.023 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

Instrument :
MSVOA_L
ClientSampleId :
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Tgt Ion: 45 Resp: 6877920
Ion Ratio Lower Upper
45 100
58 0.9 1.5 2.3

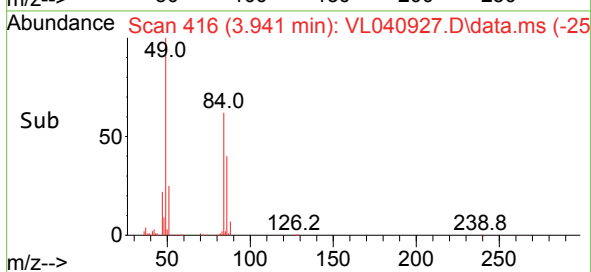
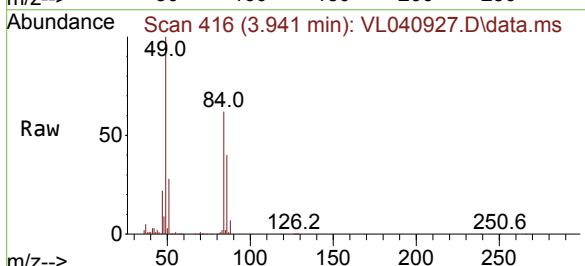
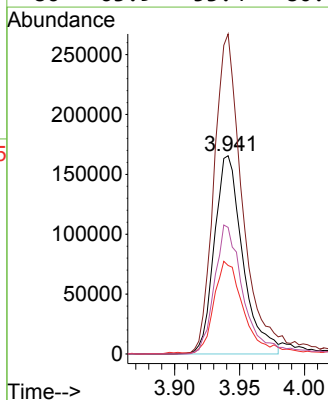
Manual Integrations
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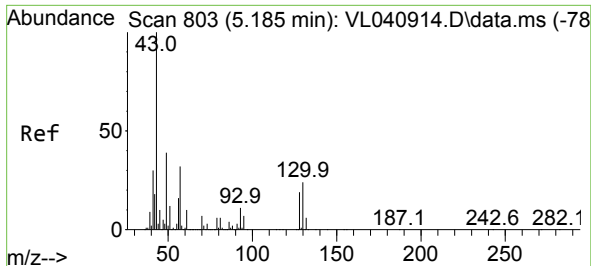
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#20
Methylene Chloride
Concen: 4.950 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.019 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

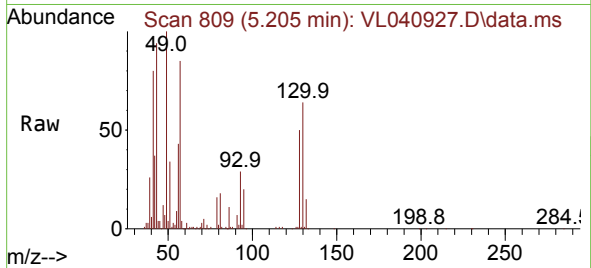
Tgt Ion: 84 Resp: 251357
Ion Ratio Lower Upper
84 100
49 161.3 124.6 187.0
51 43.8 37.2 55.8
86 63.9 53.4 80.0





#25
Ethyl Acetate
Concen: 1.476 ppbv
RT: 5.205 min Scan# 803
Delta R.T. 0.019 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

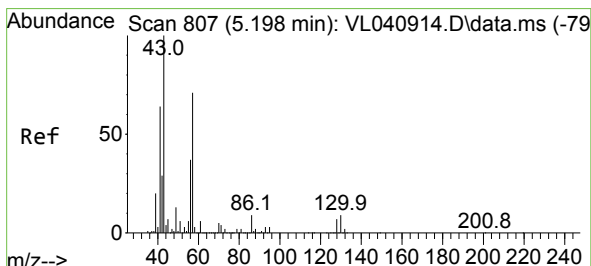
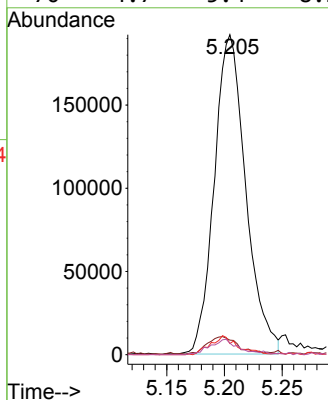
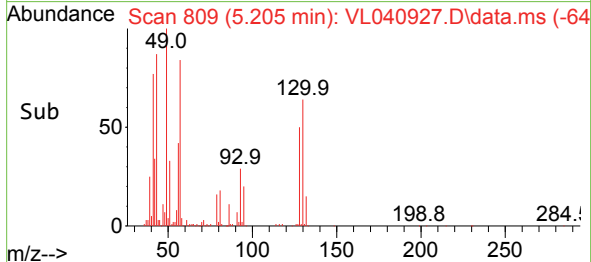
Instrument :
MSVOA_L
ClientSampleId :
10311DUP



Tgt Ion: 43 Resp: 364385
Ion Ratio Lower Upper
43 100
45 5.8 8.2 12.2
61 5.2 7.6 11.4
70 4.7 5.4 8.2

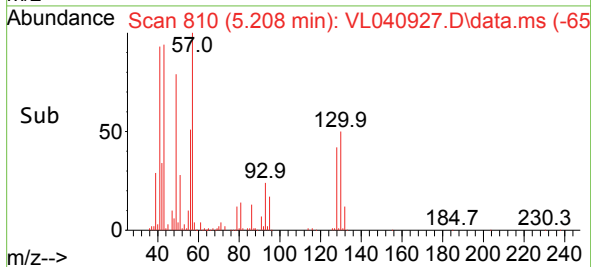
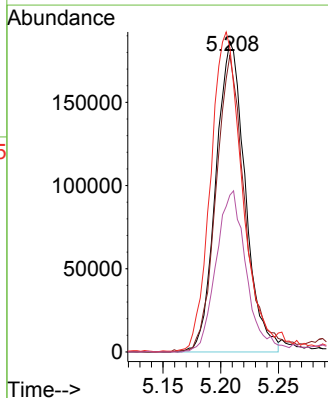
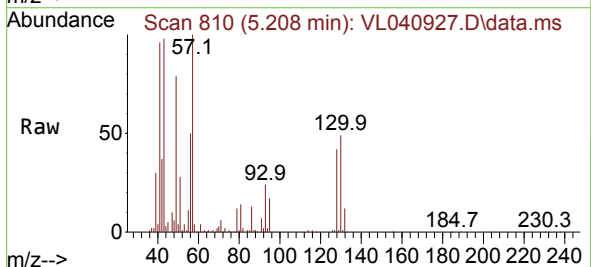
Manual Integrations
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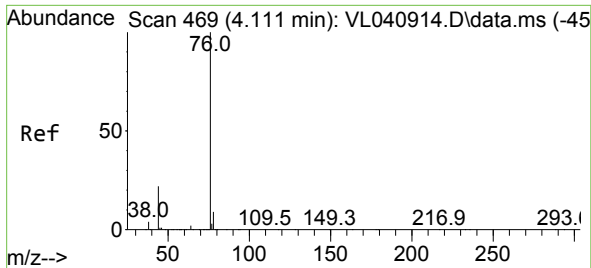
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#26
Hexane
Concen: 3.008 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

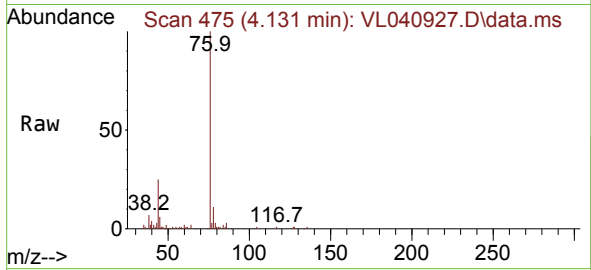
Tgt Ion: 57 Resp: 329033
Ion Ratio Lower Upper
57 100
41 95.3 75.2 112.8
43 116.1 188.0 282.0
56 54.6 42.3 63.5





#27
Carbon Disulfide
Concen: 0.466 ppbv
RT: 4.131 min Scan# 41
Delta R.T. 0.019 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

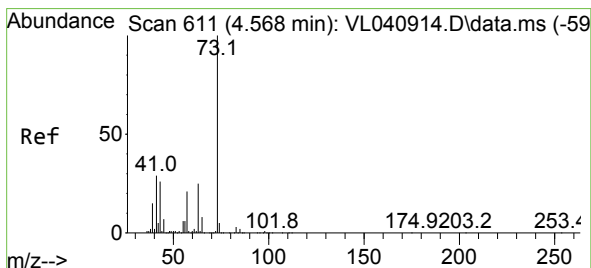
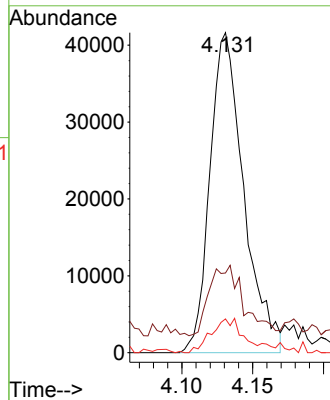
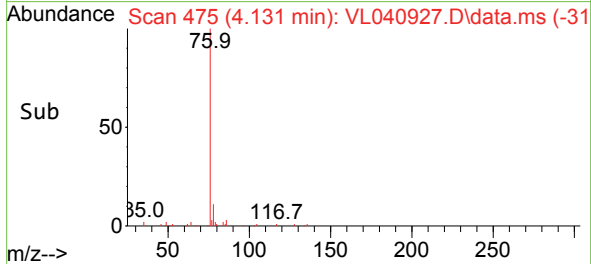
Instrument :
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Tgt Ion: 76 Resp: 69052
Ion Ratio Lower Upper
76 100
44 25.0 18.4 27.6
78 12.1 7.9 11.9

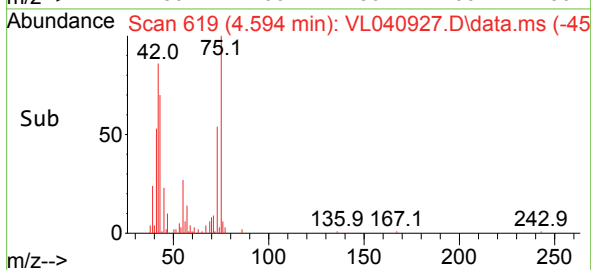
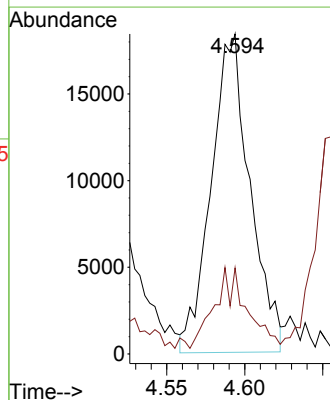
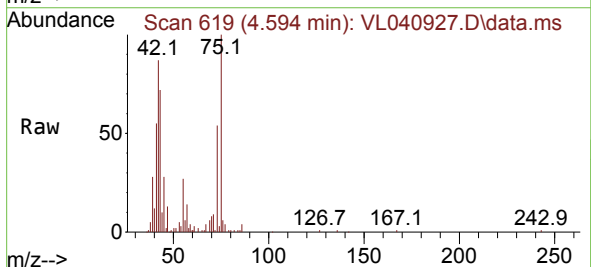
Manual Integrations
APPROVED

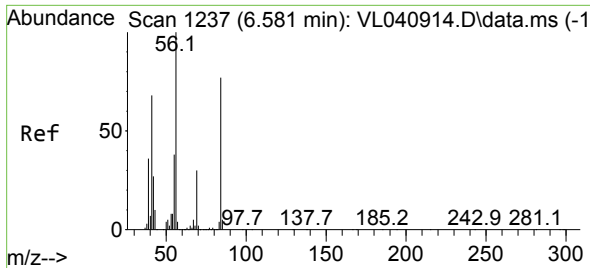
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#28
Methyl tert-Butyl Ether
Concen: 0.314 ppbv
RT: 4.594 min Scan# 619
Delta R.T. 0.026 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

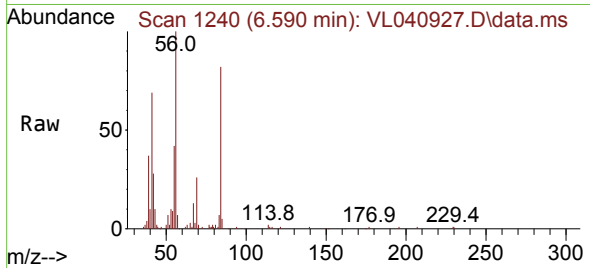
Tgt Ion: 73 Resp: 31862
Ion Ratio Lower Upper
73 100
57 27.0 18.0 27.0#





#30
Cyclohexane
Concen: 0.680 ppbv
RT: 6.590 min Scan# 1237
Delta R.T. 0.010 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

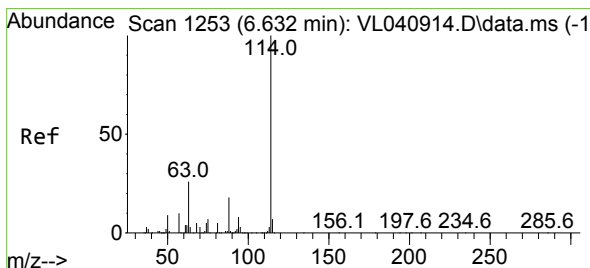
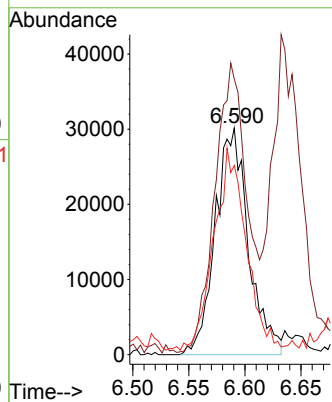
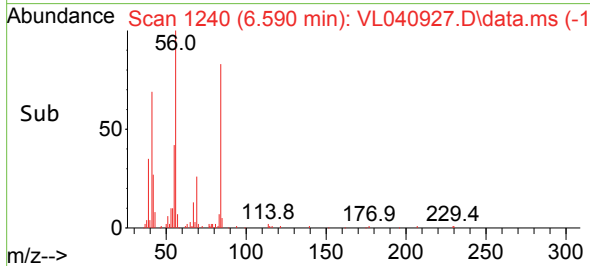
Instrument :
MSVOA_L
ClientSampleId :
10311DUP



Tgt Ion: 84 Resp: 6205
Ion Ratio Lower Upper
84 100
56 125.0 111.4 167.2
41 0.0 70.0 105.0

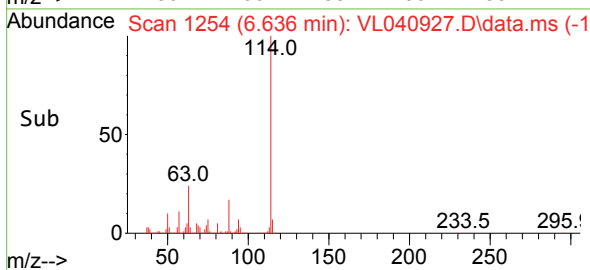
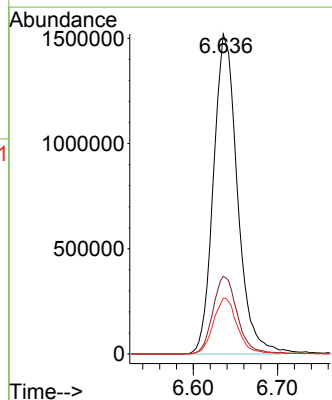
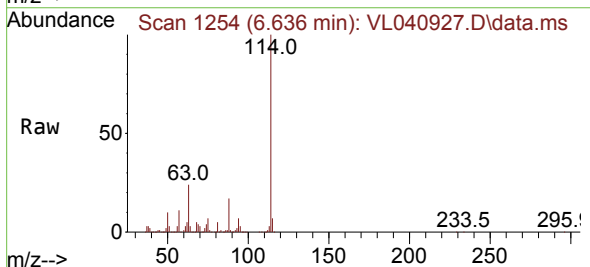
Manual Integrations
APPROVED

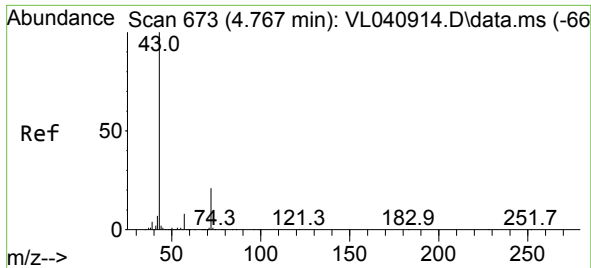
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. 0.003 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

Tgt Ion:114 Resp: 2999505
Ion Ratio Lower Upper
114 100
63 25.2 21.0 31.6
88 17.7 14.3 21.5





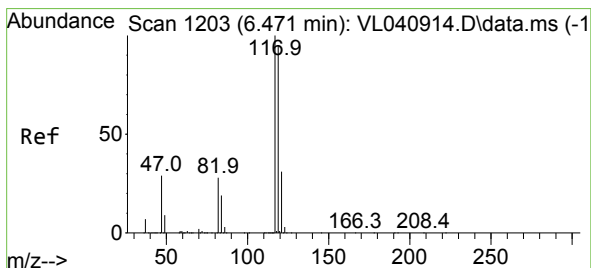
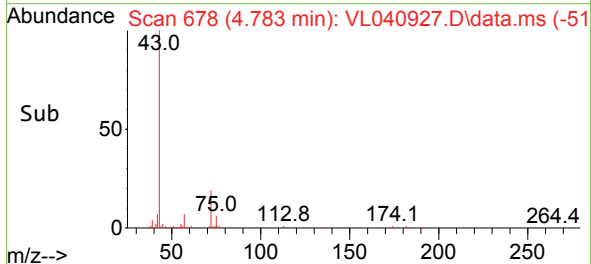
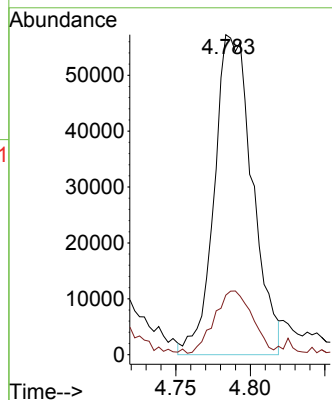
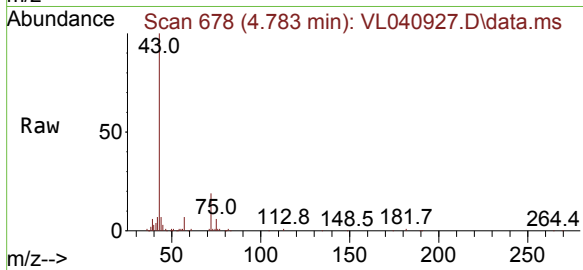
#34
2-Butanone
Concen: 0.641 ppbv m
RT: 4.783 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

Instrument :
MSVOA_L
ClientSampleId :
10311DUP

Tgt Ion: 43 Resp: 101769
Ion Ratio Lower Upper
43 100
72 0.0 17.2 25.8

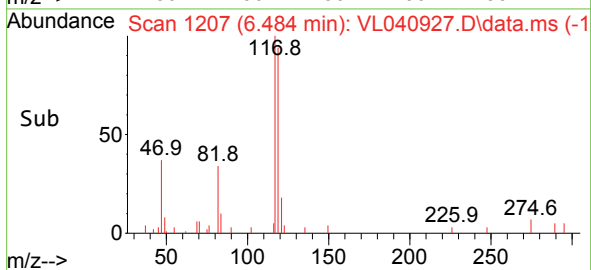
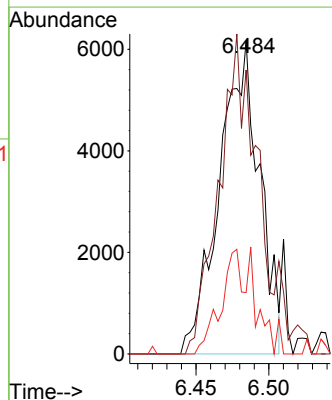
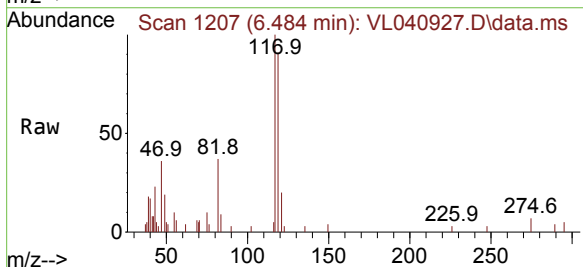
Manual Integrations
APPROVED

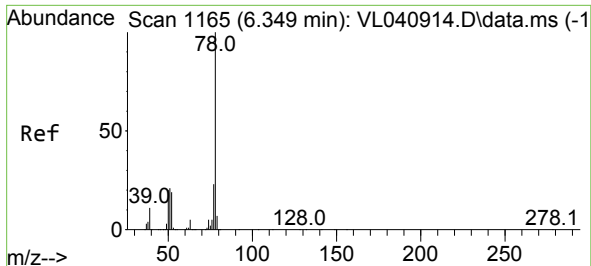
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#35
Carbon Tetrachloride
Concen: 0.063 ppbv m
RT: 6.484 min Scan# 1207
Delta R.T. 0.013 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

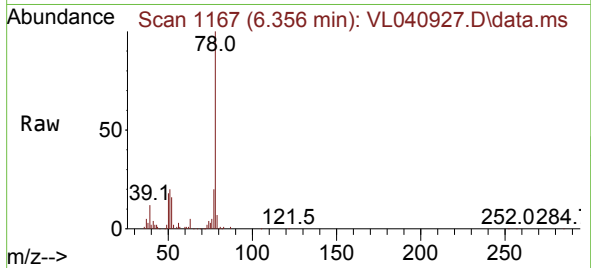
Tgt Ion:117 Resp: 11751
Ion Ratio Lower Upper
117 100
119 90.7 76.3 114.5
121 19.6 24.9 37.3





#36
Benzene
Concen: 0.759 ppbv
RT: 6.356 min Scan# 1165
Delta R.T. 0.007 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

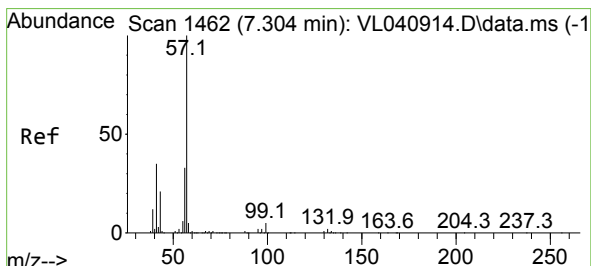
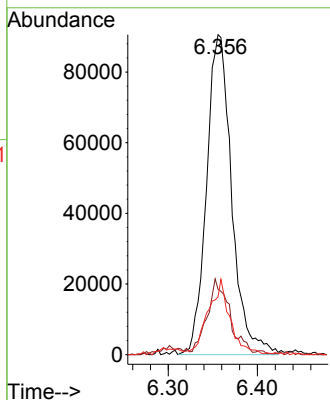
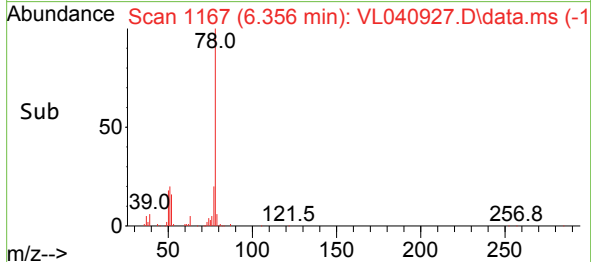
Instrument :
MSVOA_L
ClientSampleId :
10311DUP



Tgt Ion: 78 Resp: 178010
Ion Ratio Lower Upper
78 100
77 20.0 18.4 27.6
50 17.8 16.0 24.0

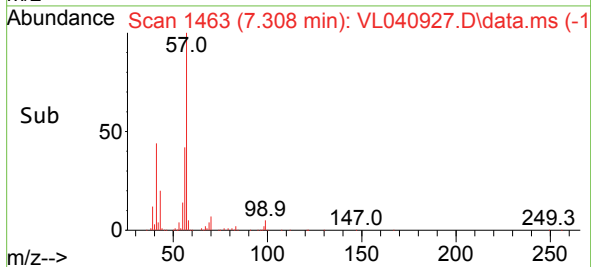
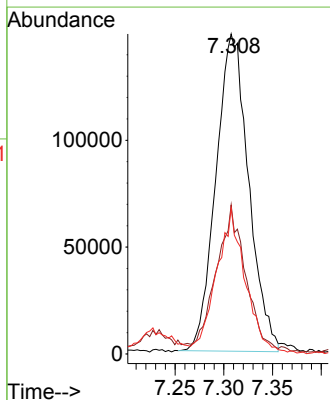
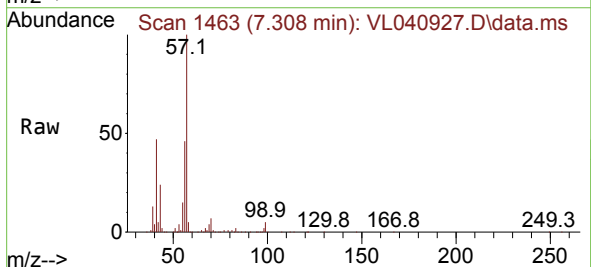
Manual Integrations
APPROVED

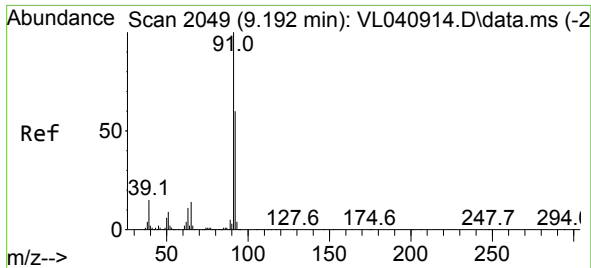
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#44
2,2,4-Trimethylpentane
Concen: 0.869 ppbv
RT: 7.308 min Scan# 1463
Delta R.T. 0.003 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

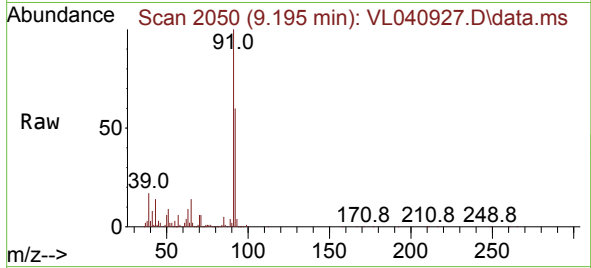
Tgt Ion: 57 Resp: 346038
Ion Ratio Lower Upper
57 100
41 42.7 28.2 42.4#
56 41.4 25.3 37.9#





#53
Toluene
Concen: 2.918 ppbv
RT: 9.195 min Scan# 2049
Delta R.T. 0.003 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

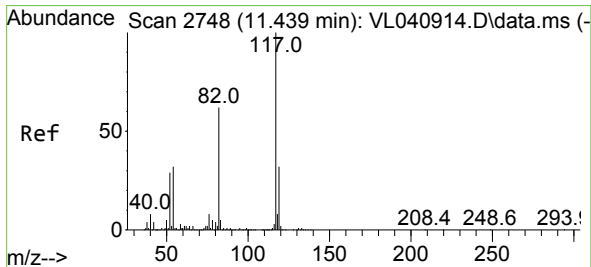
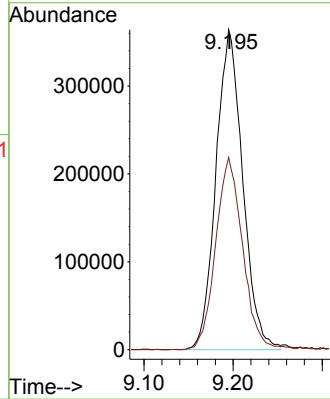
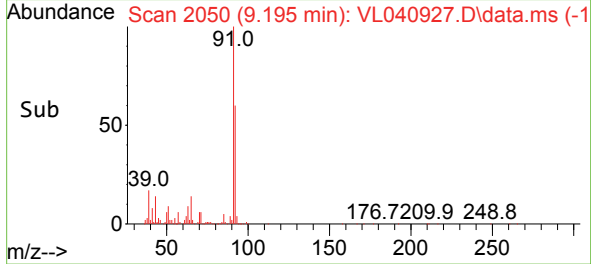
Instrument :
MSVOA_L
ClientSampleId :
10311DUP



Tgt Ion: 91 Resp: 758774
Ion Ratio Lower Upper
91 100
92 61.2 49.2 73.8

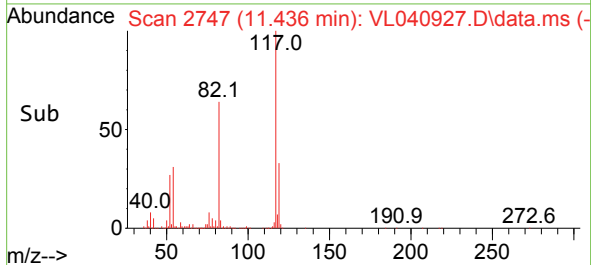
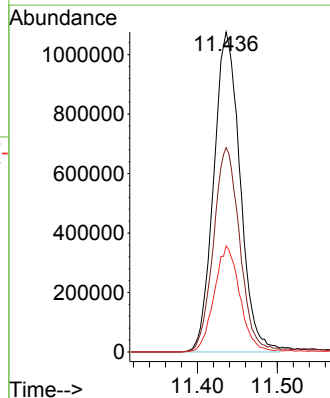
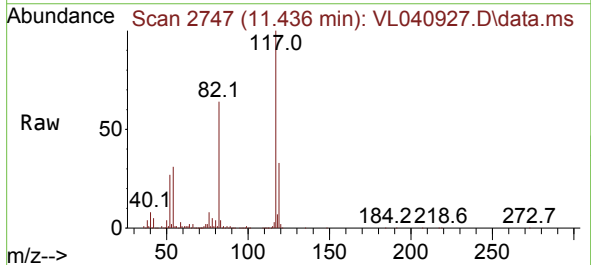
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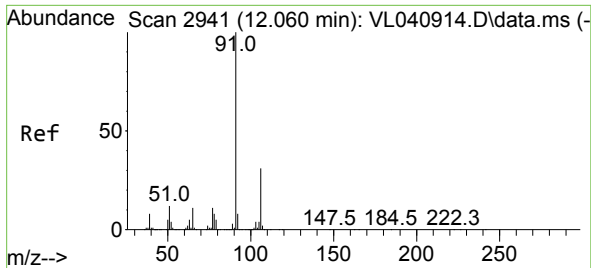
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 2747
Delta R.T. -0.003 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

Tgt Ion:117 Resp: 2461896
Ion Ratio Lower Upper
117 100
82 64.2 49.6 74.4
119 32.8 23.4 35.0





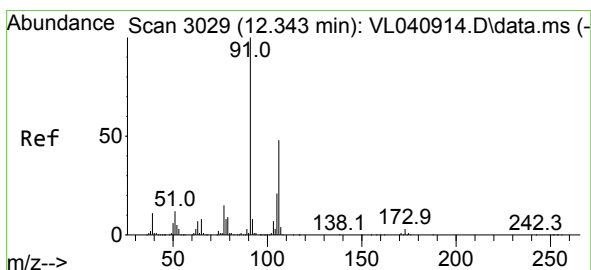
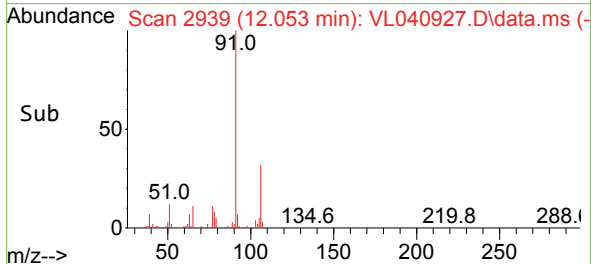
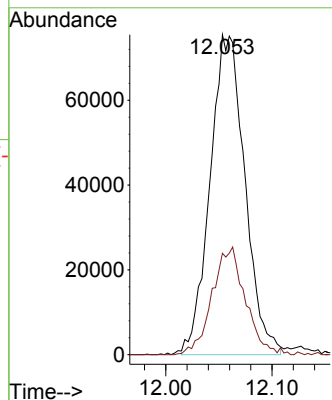
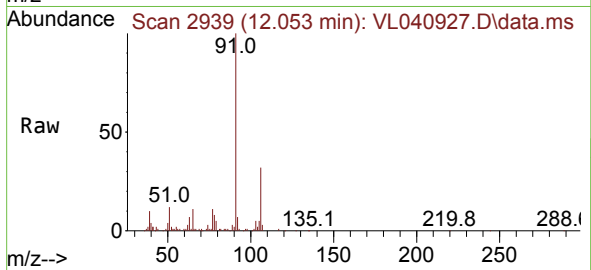
#58
Ethyl Benzene
Concen: 0.543 ppbv m
RT: 12.053 min Scan# 2941
Delta R.T. -0.006 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

Instrument :
MSVOA_L
ClientSampleId :
10311DUP

Tgt Ion: 91 Resp: 171762
Ion Ratio Lower Upper
91 100
106 31.7 24.9 37.3

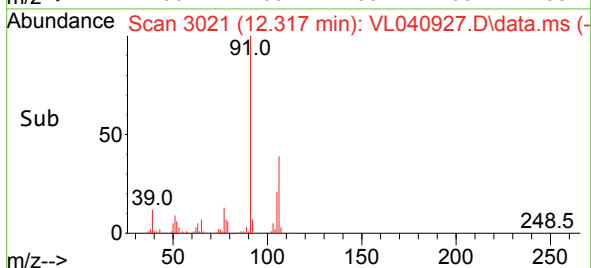
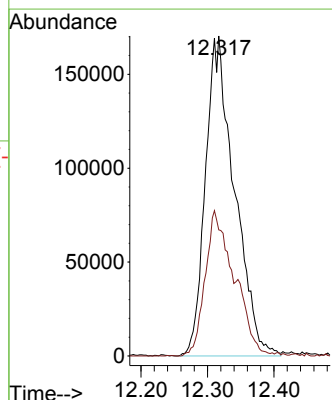
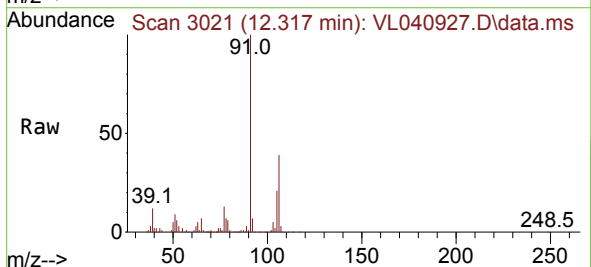
Manual Integrations
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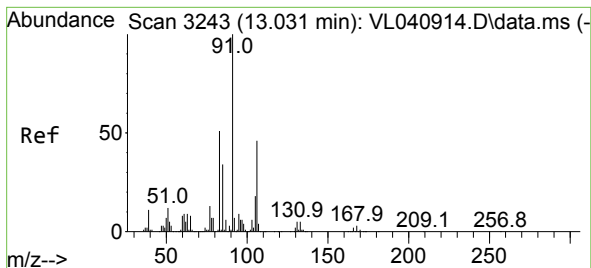
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#59
m/p-Xylene
Concen: 1.922 ppbv m
RT: 12.317 min Scan# 3021
Delta R.T. -0.026 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

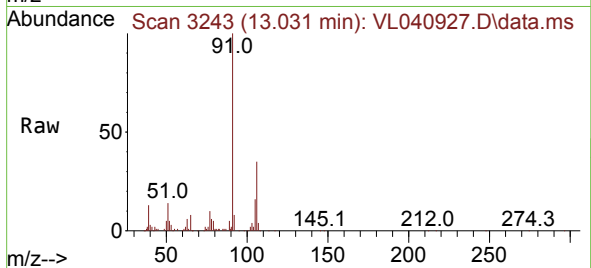
Tgt Ion: 91 Resp: 517005
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#60
o-Xylene
Concen: 0.662 ppbv m
RT: 13.031 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

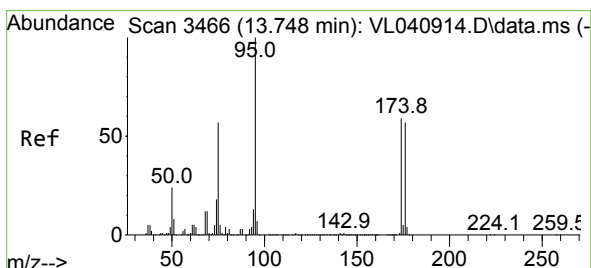
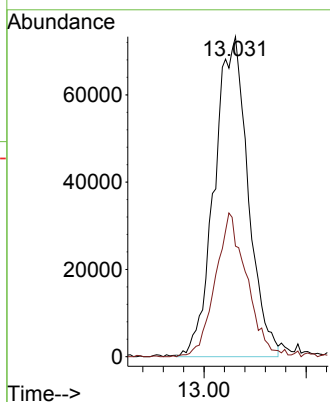
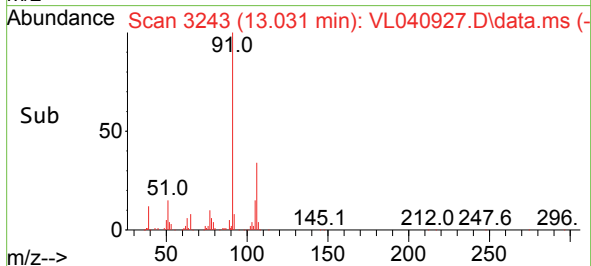
Instrument :
MSVOA_L
ClientSampleId :
10311DUP



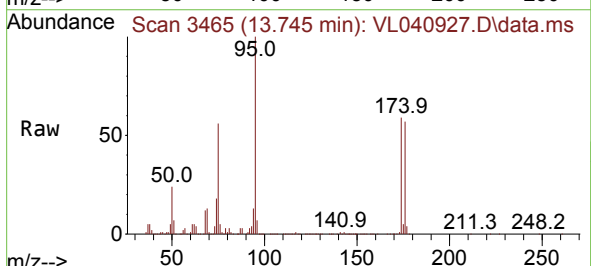
Tgt Ion: 91 Resp: 167738
Ion Ratio Lower Upper
91 100
106 0.0 22.6 67.7

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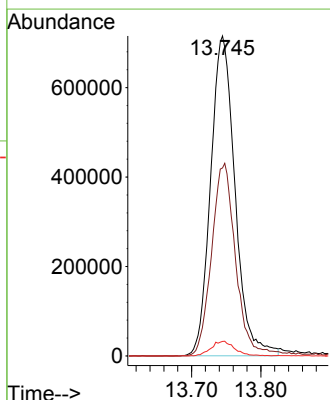
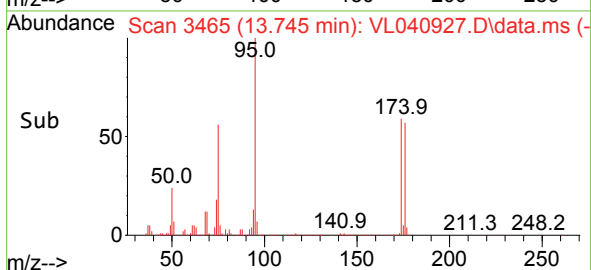
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

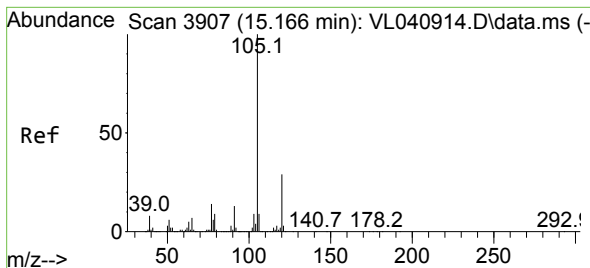


#68
1-Bromo-4-Fluorobenzene
Concen: 9.656 ppbv
RT: 13.745 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12



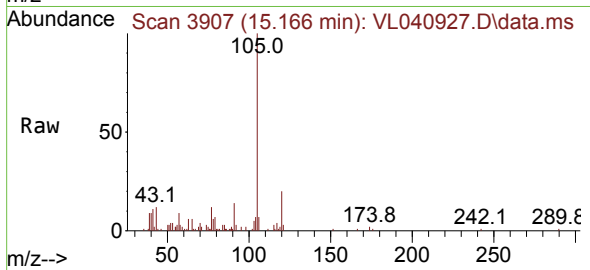
Tgt Ion: 95 Resp: 1750981
Ion Ratio Lower Upper
95 100
174 59.9 48.0 72.0
175 4.6 3.7 5.5





#72
4-Ethyltoluene
Concen: 0.187 ppbv m
RT: 15.166 min Scan# 3907
Delta R.T. 0.000 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

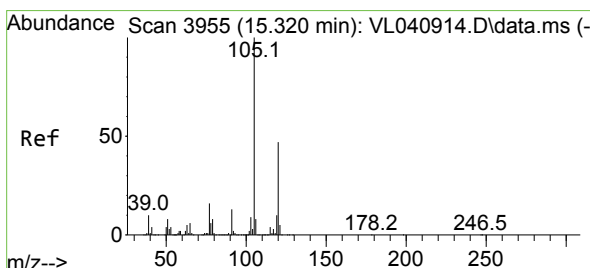
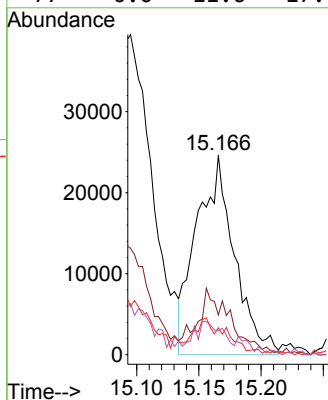
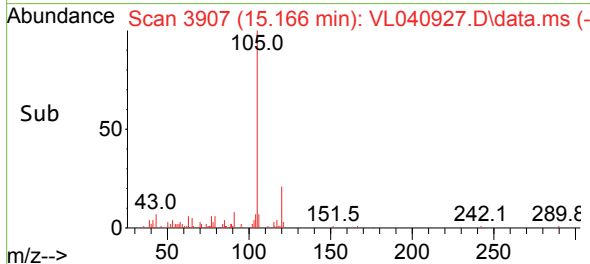
Instrument :
MSVOA_L
ClientSampleId :
10311DUP



Tgt Ion:105 Resp: 5214
Ion Ratio Lower Upper
105 100
120 0.0 23.8 35.8
91 0.0 10.9 16.3
77 0.0 11.6 17.4

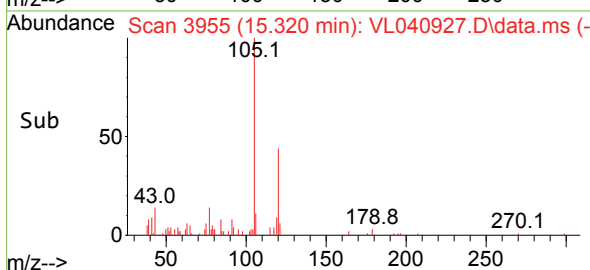
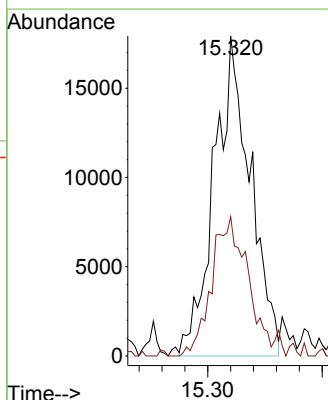
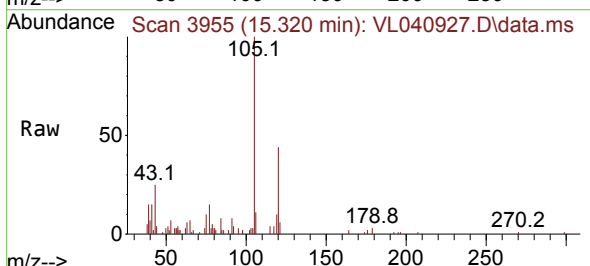
Manual Integrations
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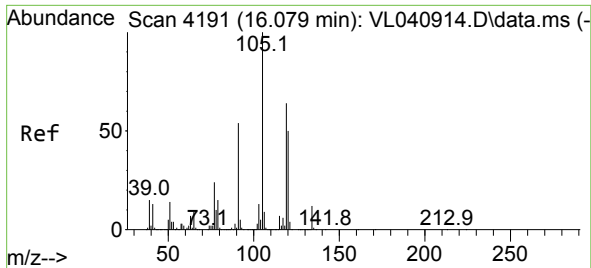
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#73
1,3,5-Trimethylbenzene
Concen: 0.164 ppbv m
RT: 15.320 min Scan# 3955
Delta R.T. 0.000 min
Lab File: VL040927.D
Acq: 21 Dec 2023 13:12

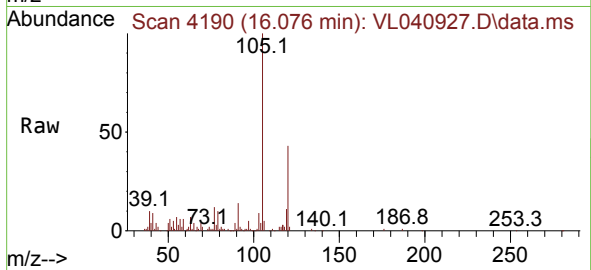
Tgt Ion:105 Resp: 39365
Ion Ratio Lower Upper
105 100
120 43.5 37.8 56.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.548 ppbv m
 RT: 16.076 min Scan# 4190
 Delta R.T. -0.003 min
 Lab File: VL040927.D
 Acq: 21 Dec 2023 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 10311DUP



Tgt Ion:	105	Resp:	146415
Ion	Ratio	Lower	Upper
105	100		
120	43.2	40.2	60.4
91	14.1	43.0	64.6
77	11.6	18.9	28.3

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/22/2023
 Supervised By :Mahesh Dadoda 12/26/2023

