

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040926.D
 Acq On : 21 Dec 2023 12:17
 Operator : SY/MD
 Sample : 05813-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10311

Manual Integrations
 APPROVED

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

Quant Time: Dec 22 00:05:37 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	5.182	49	1166222	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2920835	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	2421968	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.741	95	1730804	9.702	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	118627	0.534	ppbv	98
3) Chlorodifluoromethane	2.674	51	192731	1.098	ppbv #	69
9) Propene	2.726	41	318015	5.492	ppbv #	77
10) Heptane	7.555	43	167559	1.164	ppbv	99
11) Trichlorofluoromethane	3.571	101	40822	0.235	ppbv	93
13) Ethanol	3.250	45	1370274	93.800	ppbv	98
15) Acetone	3.475	43	1453528	10.392	ppbv	98
19) Isopropyl Alcohol	3.584	45	6815306	93.381	ppbv #	97
20) Methylene Chloride	3.938	84	186735	3.745	ppbv	97
25) Ethyl Acetate	5.198	43	335148	1.383	ppbv #	92
26) Hexane	5.205	57	277023	2.579	ppbv #	59
27) Carbon Disulfide	4.127	76	76863	0.529	ppbv #	91
28) Methyl tert-Butyl Ether	4.584	73	31176	0.313	ppbv #	91
29) Chloroform	5.269	83	18126	0.100	ppbv	96
30) Cyclohexane	6.587	84	59246	0.662	ppbv	91
34) 2-Butanone	4.787	43	99904	0.647	ppbv	95
35) Carbon Tetrachloride	6.475	117	10639	0.058	ppbv #	77
36) Benzene	6.352	78	172621	0.756	ppbv	94
44) 2,2,4-Trimethylpentane	7.304	57	369504m	0.953	ppbv	
53) Toluene	9.195	91	766069	3.026	ppbv	99
58) Ethyl Benzene	12.060	91	187019m	0.601	ppbv	
59) m/p-Xylene	12.310	91	531458	2.008	ppbv #	100
60) o-Xylene	13.024	91	170506	0.684	ppbv	99
72) 4-Ethyltoluene	15.156	105	36212	0.132	ppbv #	52
73) 1,3,5-Trimethylbenzene	15.320	105	48518m	0.205	ppbv	
74) 1,2,4-Trimethylbenzene	16.076	105	156713m	0.596	ppbv	

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

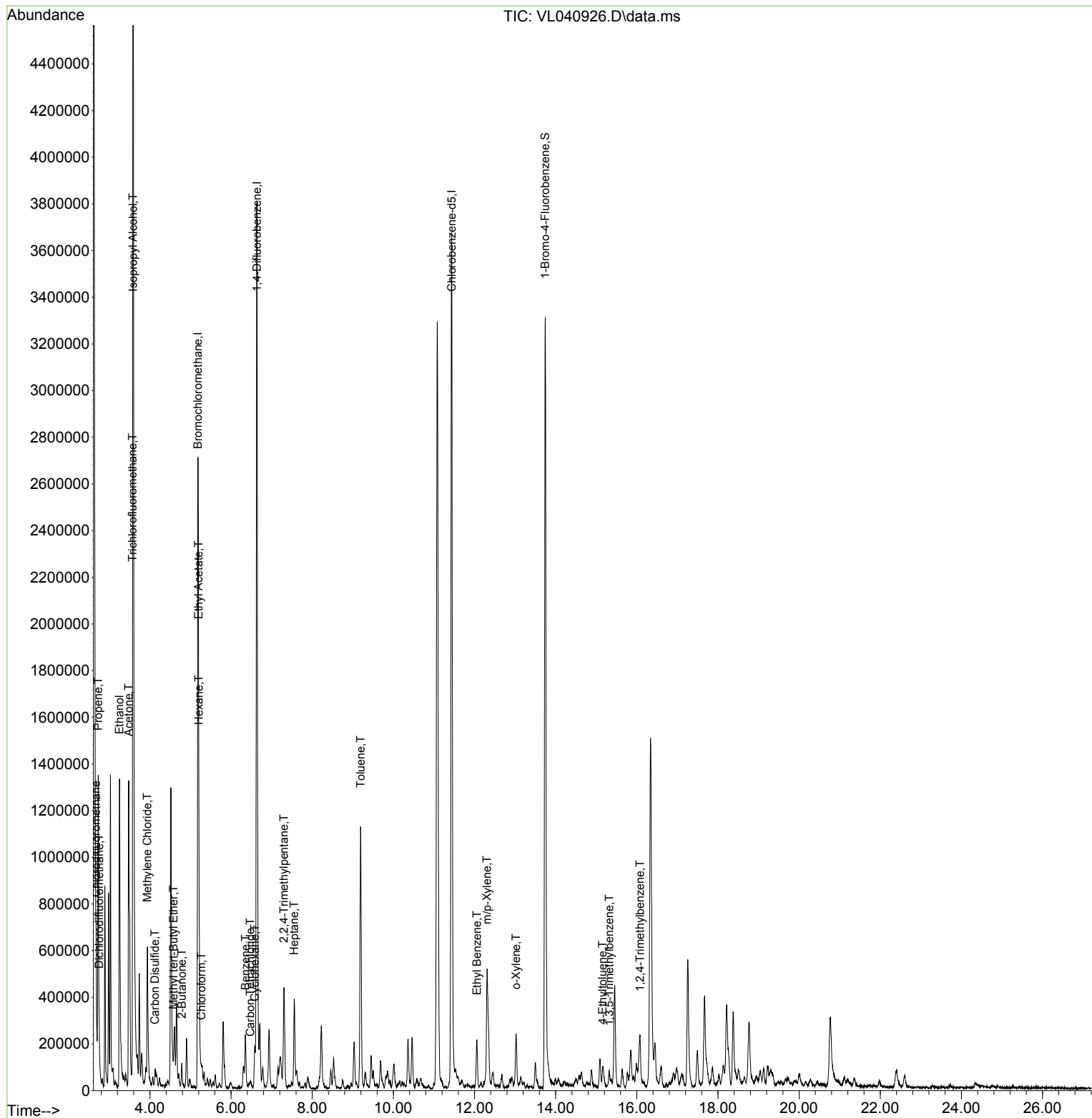
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
Data File : VL040926.D
Acq On : 21 Dec 2023 12:17
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ALS Vial : 1 Sample Multiplier: 1

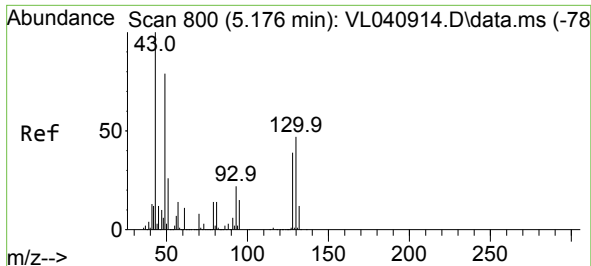
Instrument :
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Reviewed By : Semsettin Yesilyurt 12/22/2023
Supervised By : Mahesh Dadoda 12/26/2023

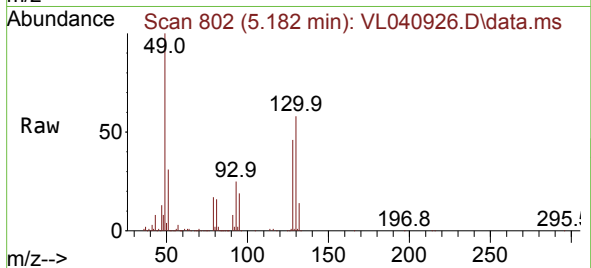
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 21 07:32:42 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. 0.006 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

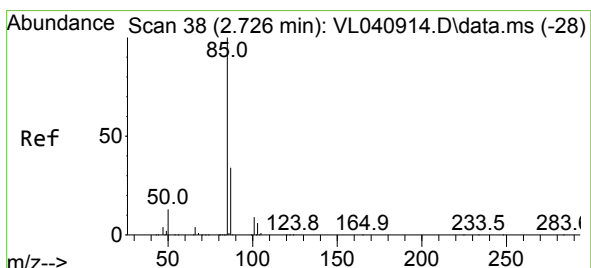
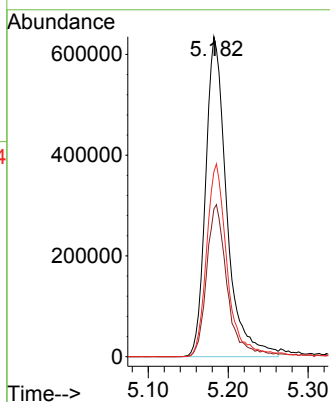
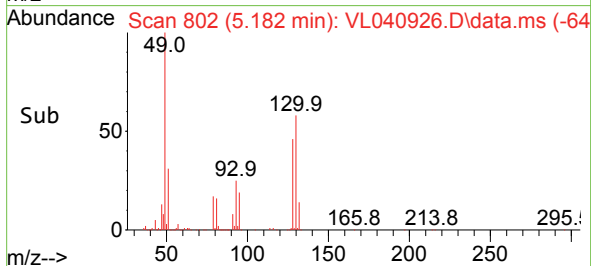
Instrument :
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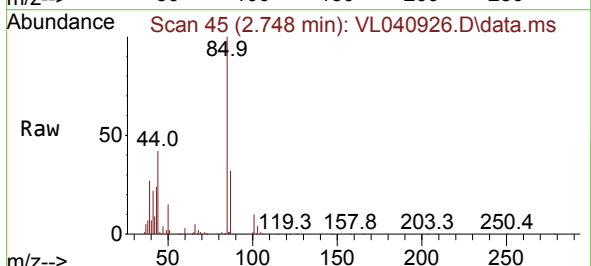
Tgt Ion: 49 Resp: 116622
Ion Ratio Lower Upper
49 100
128 47.9 23.8 71.2
130 60.0 30.1 90.5

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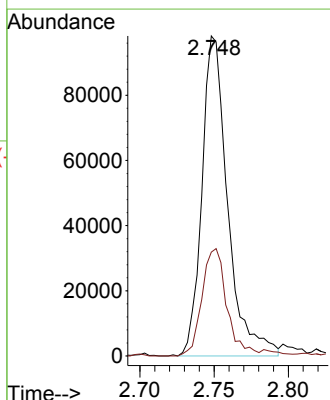
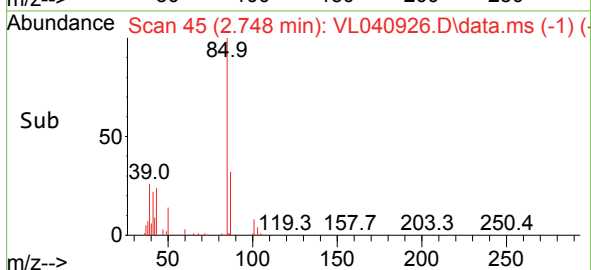
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

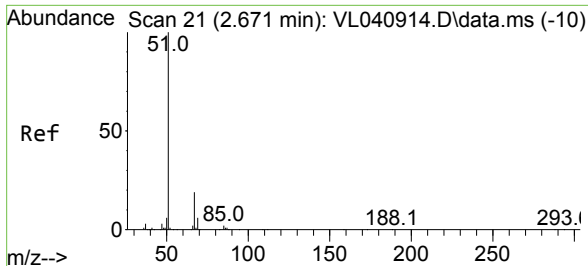


#2
Dichlorodifluoromethane
Concen: 0.534 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.023 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17



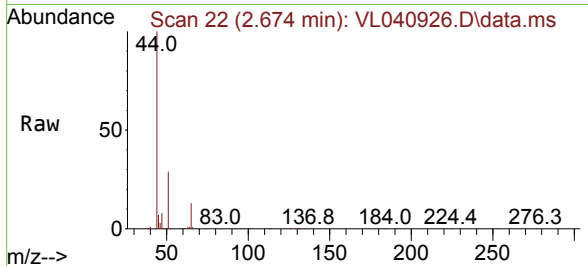
Tgt Ion: 85 Resp: 118627
Ion Ratio Lower Upper
85 100
87 32.5 27.0 40.6





#3
Chlorodifluoromethane
Concen: 1.098 ppbv
RT: 2.674 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

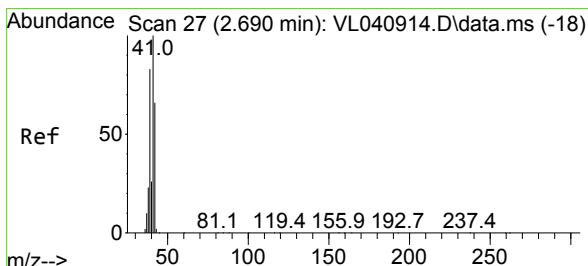
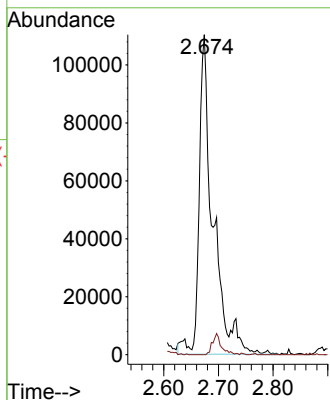
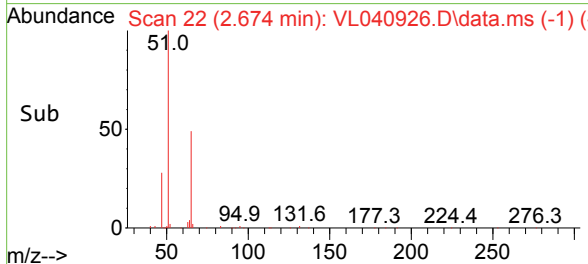
Instrument :
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ClientSampleId :
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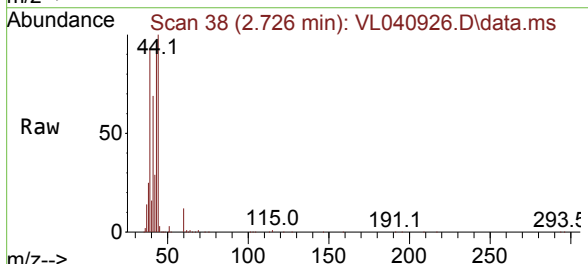
Tgt Ion: 51 Resp: 19273
Ion Ratio Lower Upper
51 100
67 4.5 14.7 22.1

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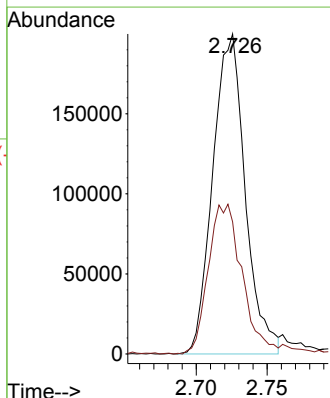
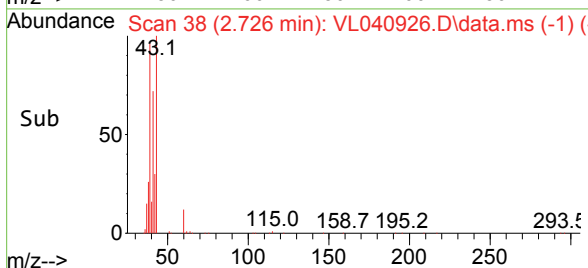
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

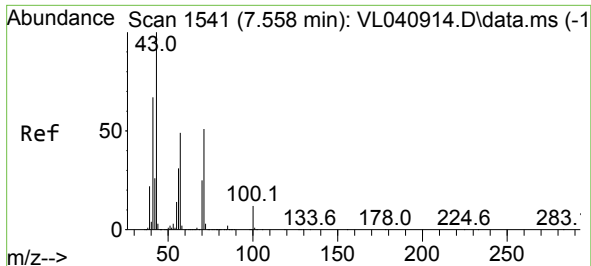


#9
Propene
Concen: 5.492 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.035 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17



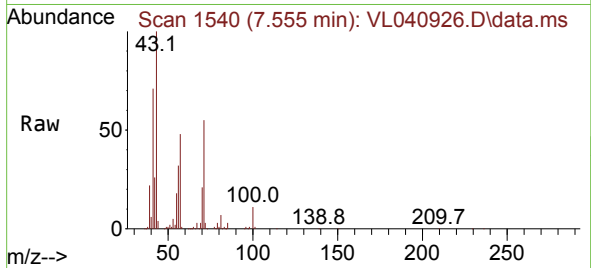
Tgt Ion: 41 Resp: 318015
Ion Ratio Lower Upper
41 100
42 51.1 55.8 83.6





#10
Heptane
Concen: 1.164 ppbv
RT: 7.555 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

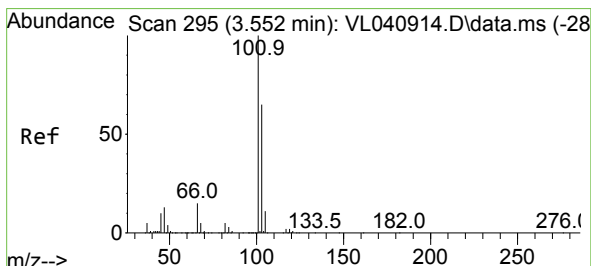
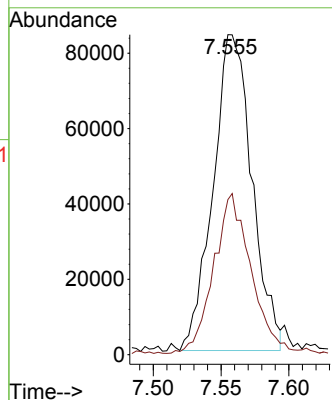
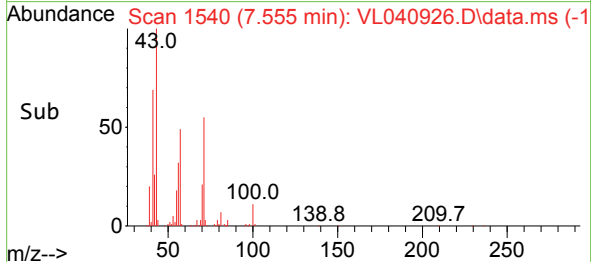
Instrument :
MSVOA_L
ClientSampleId :
10311



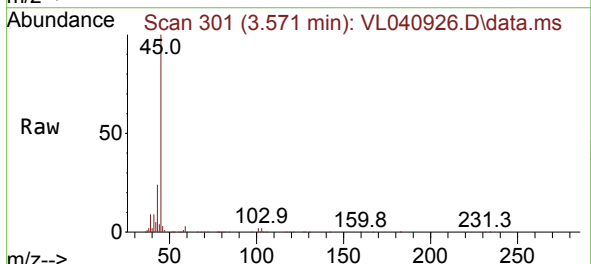
Tgt Ion: 43 Resp: 16755
Ion Ratio Lower Upper
43 100
57 49.8 39.3 58.9

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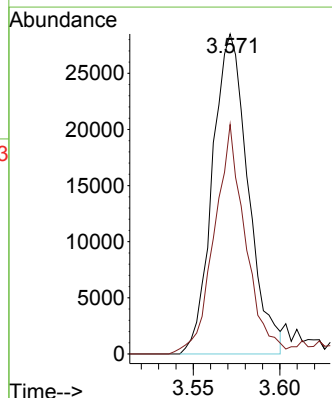
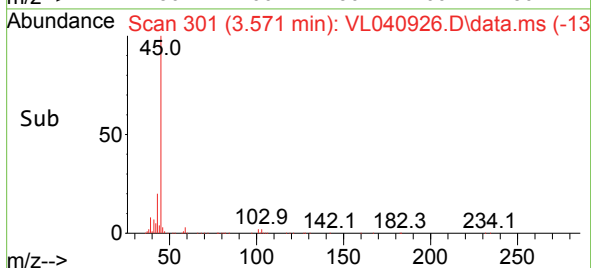
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

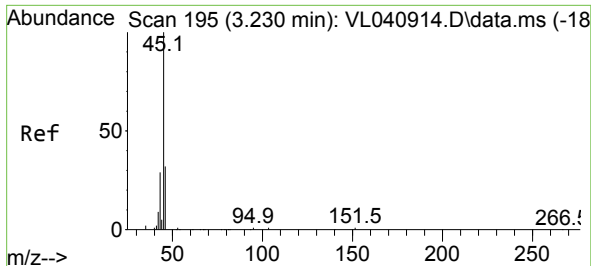


#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.019 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17



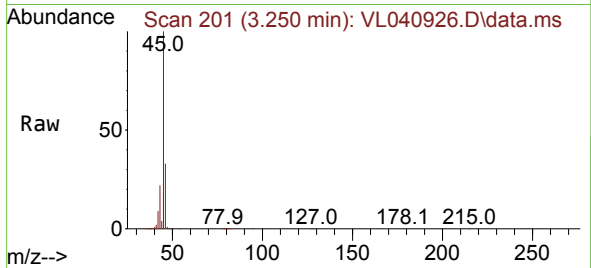
Tgt Ion:101 Resp: 40822
Ion Ratio Lower Upper
101 100
103 70.1 51.9 77.9





#13
Ethanol
Concen: 93.800 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.019 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

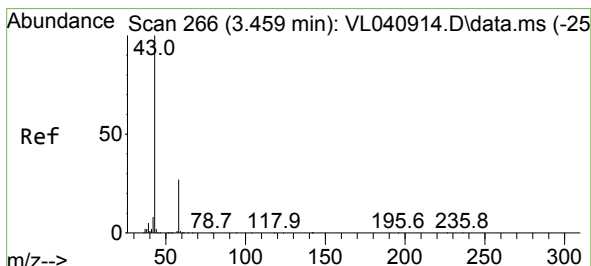
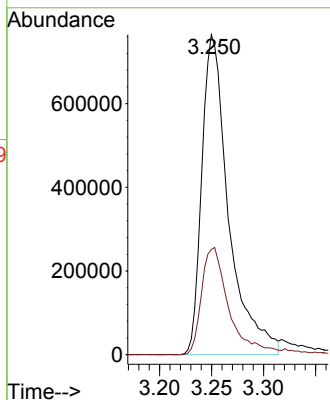
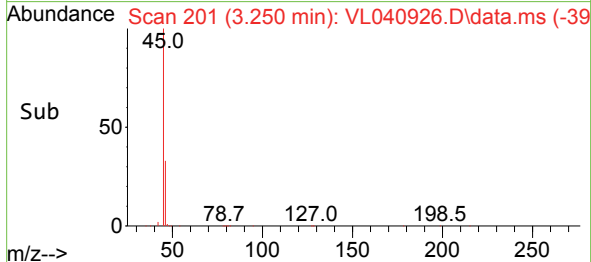
Instrument :
MSVOA_L
ClientSampleId :
10311



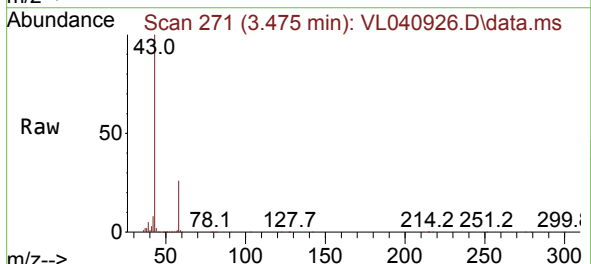
Tgt Ion: 45 Resp: 1370274
Ion Ratio Lower Upper
45 100
46 36.2 15.0 60.0

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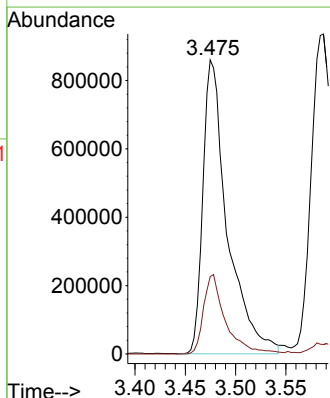
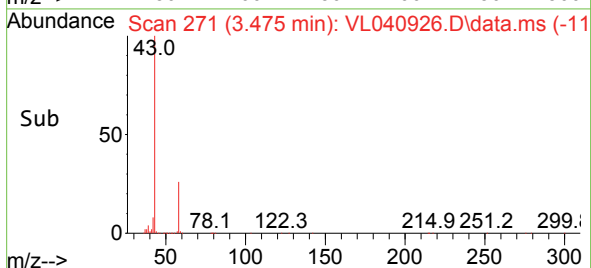
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

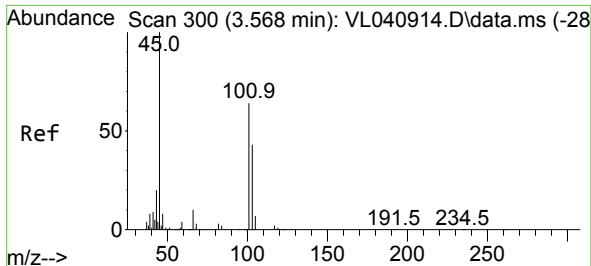


#15
Acetone
Concen: 10.392 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.016 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17



Tgt Ion: 43 Resp: 1453528
Ion Ratio Lower Upper
43 100
58 24.5 20.6 30.8





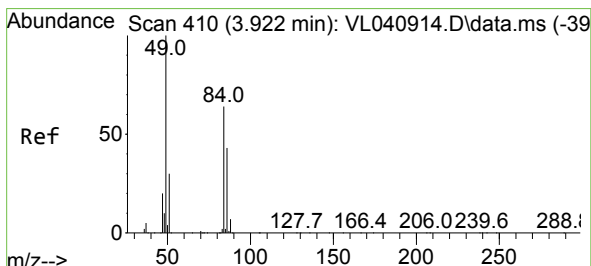
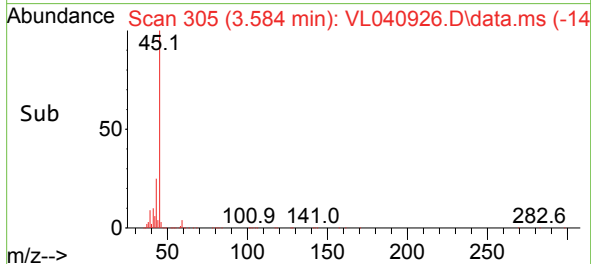
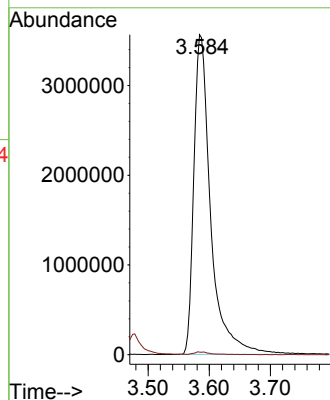
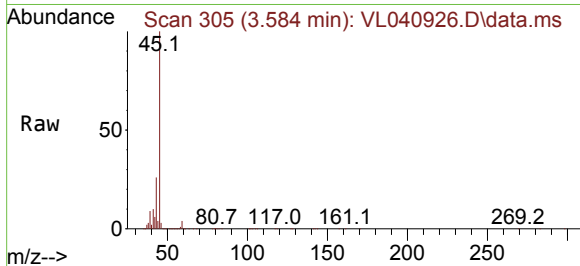
#19
Isopropyl Alcohol
Concen: 93.381 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.016 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

Instrument :
MSVOA_L
ClientSampleId :
10311

Tgt Ion: 45 Resp: 6815300
Ion Ratio Lower Upper
45 100
58 1.0 1.5 2.3

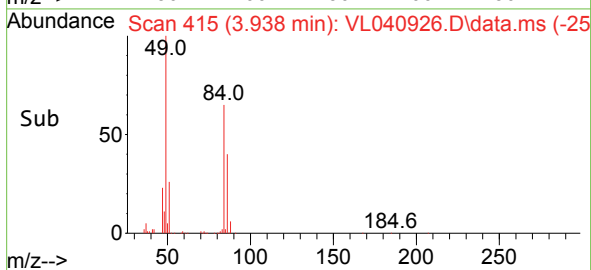
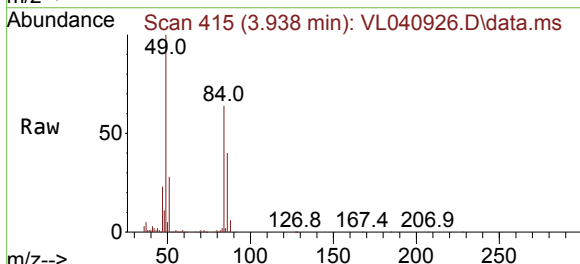
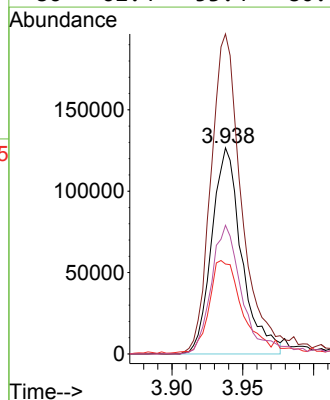
Manual Integrations
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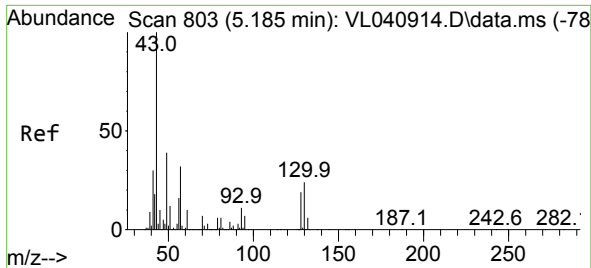
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#20
Methylene Chloride
Concen: 3.745 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.016 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

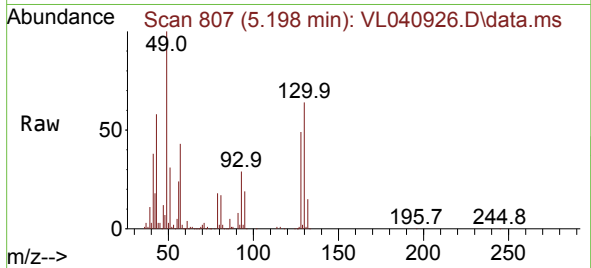
Tgt Ion: 84 Resp: 186735
Ion Ratio Lower Upper
84 100
49 155.3 124.6 187.0
51 42.6 37.2 55.8
86 62.4 53.4 80.0





#25
Ethyl Acetate
Concen: 1.383 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.013 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

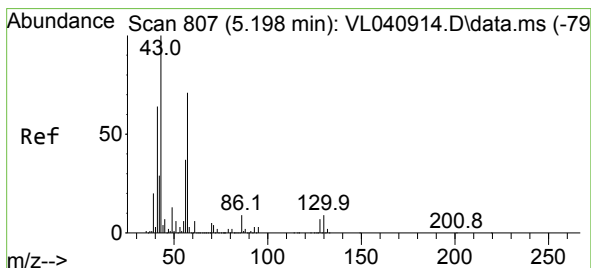
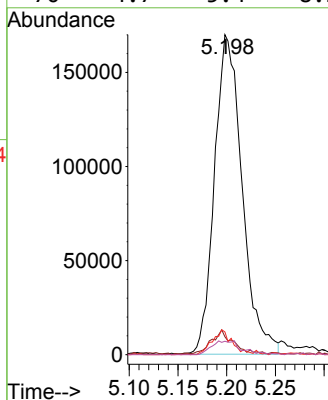
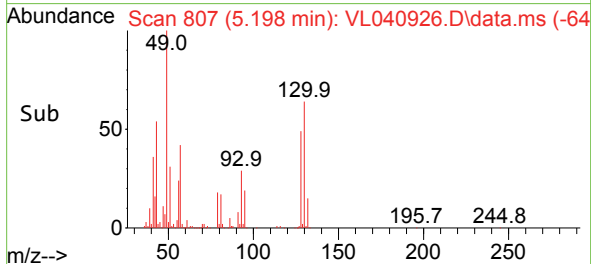
Instrument :
MSVOA_L
ClientSampleId :
10311



Tgt Ion: 43 Resp: 33514
Ion Ratio Lower Upper
43 100
45 6.9 8.2 12.2
61 6.5 7.6 11.4
70 4.7 5.4 8.2

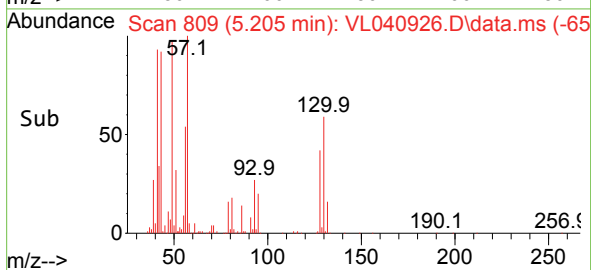
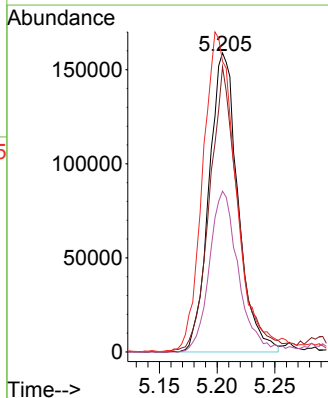
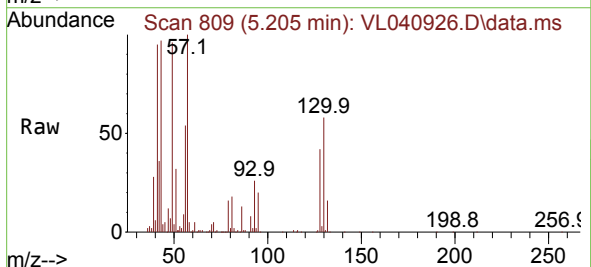
Manual Integrations
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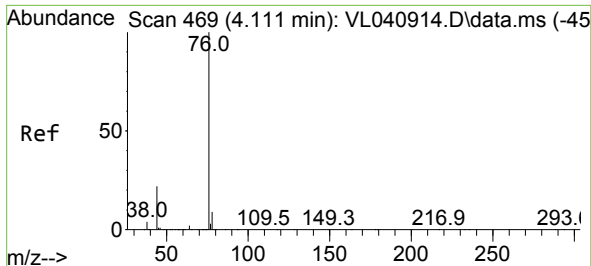
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#26
Hexane
Concen: 2.579 ppbv
RT: 5.205 min Scan# 809
Delta R.T. 0.006 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

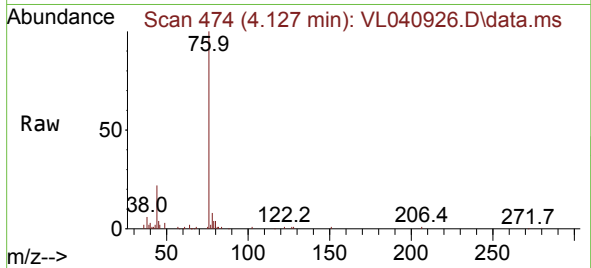
Tgt Ion: 57 Resp: 277023
Ion Ratio Lower Upper
57 100
41 94.6 75.2 112.8
43 124.5 188.0 282.0
56 54.5 42.3 63.5





#27
Carbon Disulfide
Concen: 0.529 ppbv
RT: 4.127 min Scan# 41
Delta R.T. 0.016 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

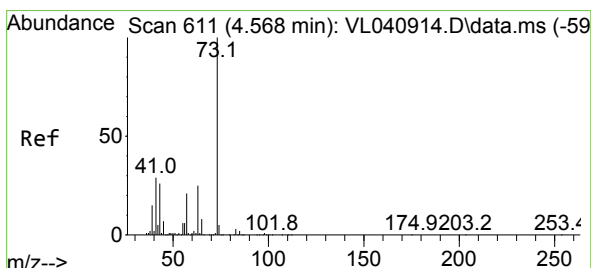
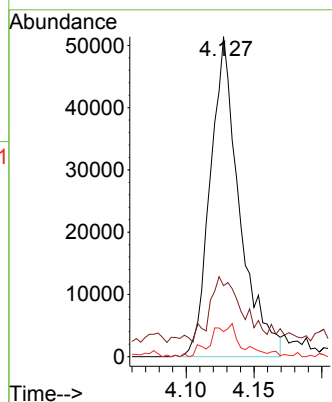
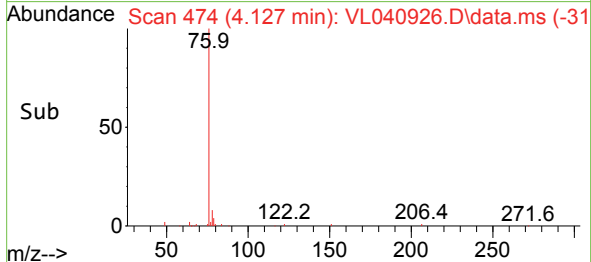
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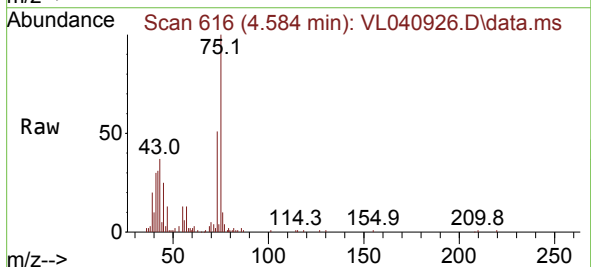
Tgt Ion: 76 Resp: 7686
Ion Ratio Lower Upper
76 100
44 28.5 18.4 27.6
78 11.2 7.9 11.9

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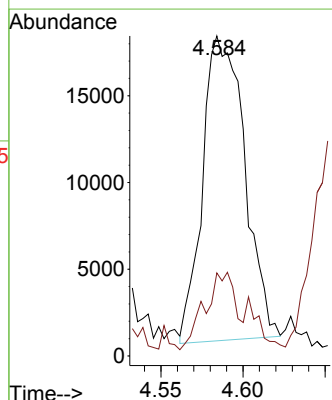
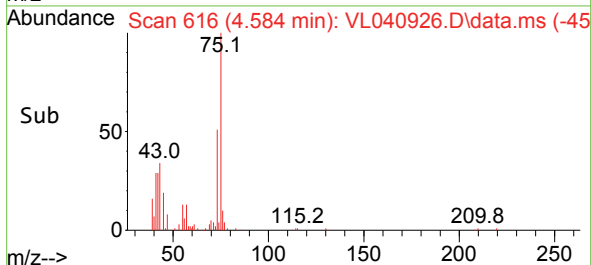
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

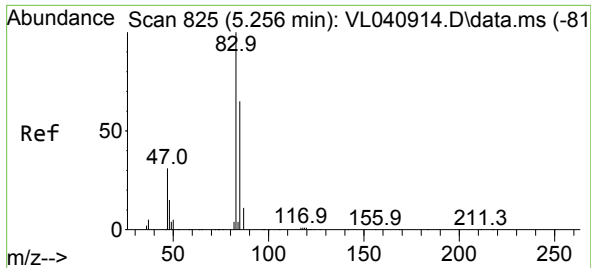


#28
Methyl tert-Butyl Ether
Concen: 0.313 ppbv
RT: 4.584 min Scan# 616
Delta R.T. 0.016 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17



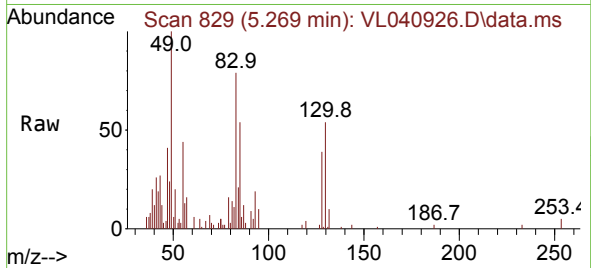
Tgt Ion: 73 Resp: 31176
Ion Ratio Lower Upper
73 100
57 27.0 18.0 27.0#





#29
Chloroform
Concen: 0.100 ppbv
RT: 5.269 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

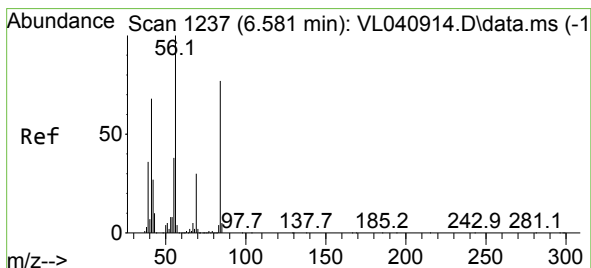
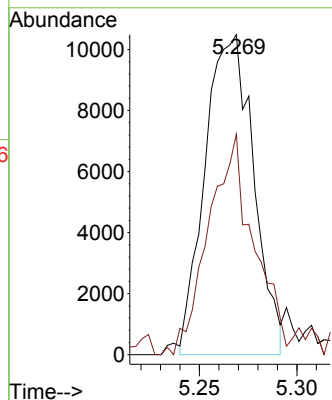
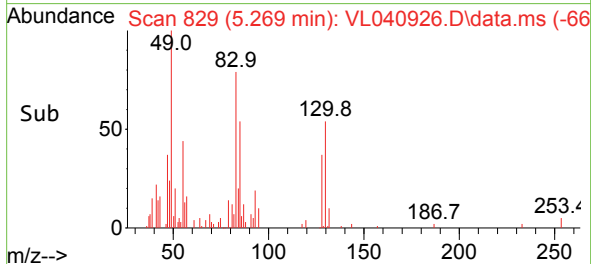
Instrument :
MSVOA_L
ClientSampleId :
10311



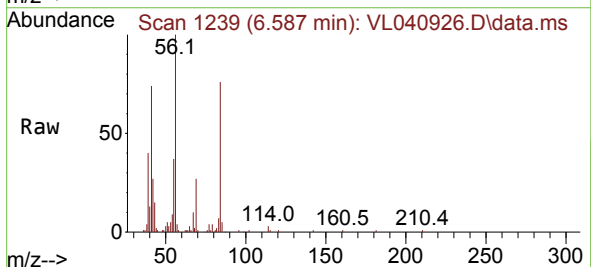
Tgt Ion: 83 Resp: 18120
Ion Ratio Lower Upper
83 100
85 62.4 52.3 78.5

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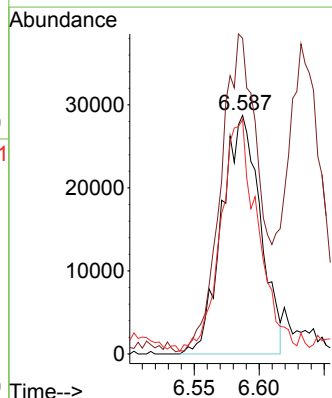
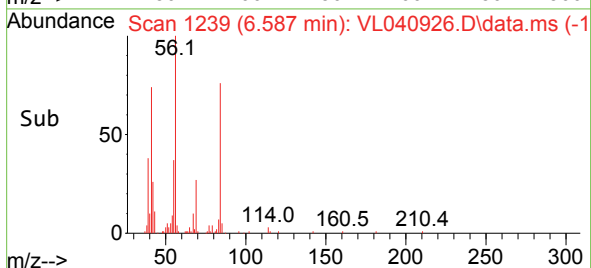
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

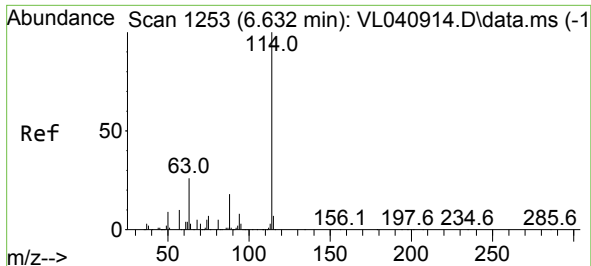


#30
Cyclohexane
Concen: 0.662 ppbv
RT: 6.587 min Scan# 1239
Delta R.T. 0.006 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17



Tgt Ion: 84 Resp: 59246
Ion Ratio Lower Upper
84 100
56 128.5 111.4 167.2
41 95.7 70.0 105.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL040926.D

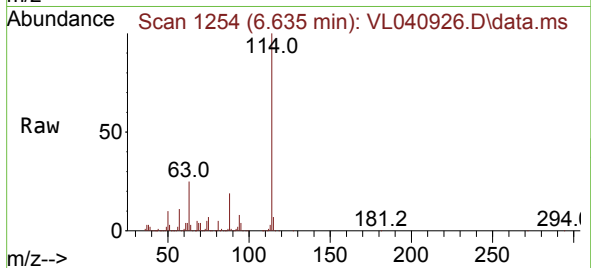
Acq: 21 Dec 2023 12:17

Instrument :

MSVOA_L

ClientSampleId :

10311



Tgt Ion:114 Resp: 292083

Ion Ratio Lower Upper

114 100

63 24.8 21.0 31.6

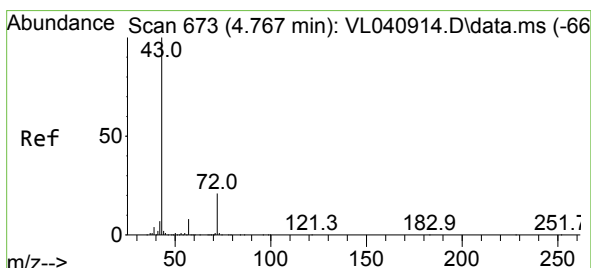
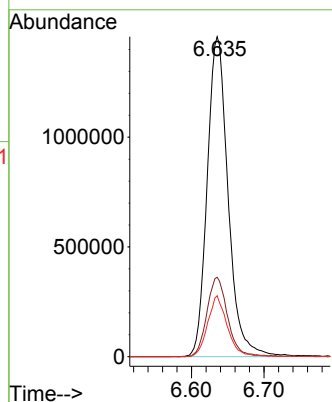
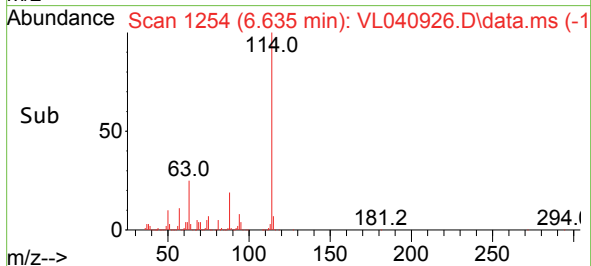
88 18.0 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/22/2023

Supervised By :Mahesh Dadoda 12/26/2023



#34

2-Butanone

Concen: 0.647 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.019 min

Lab File: VL040926.D

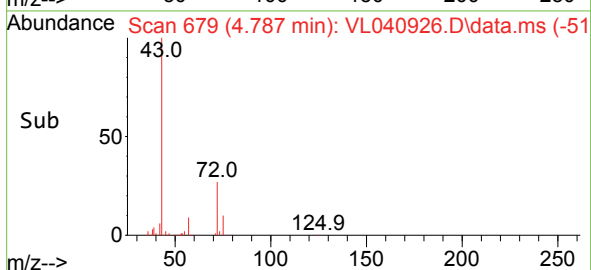
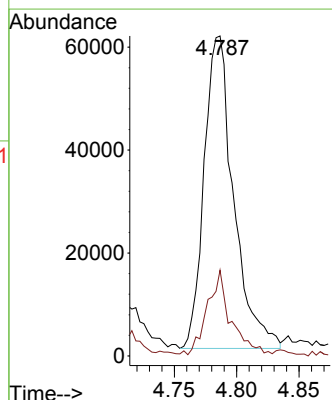
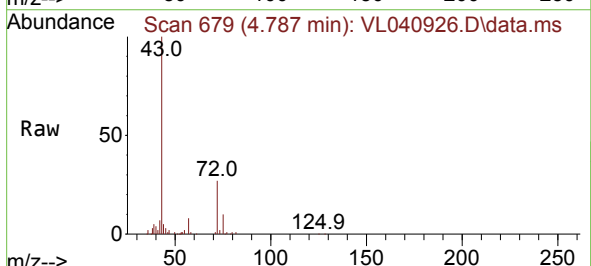
Acq: 21 Dec 2023 12:17

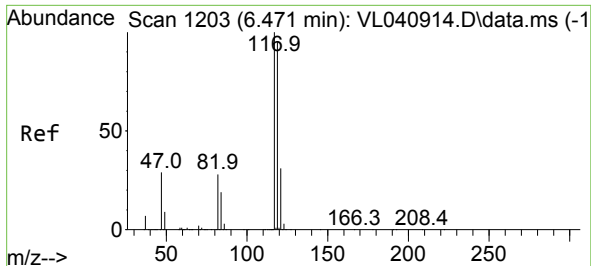
Tgt Ion: 43 Resp: 99904

Ion Ratio Lower Upper

43 100

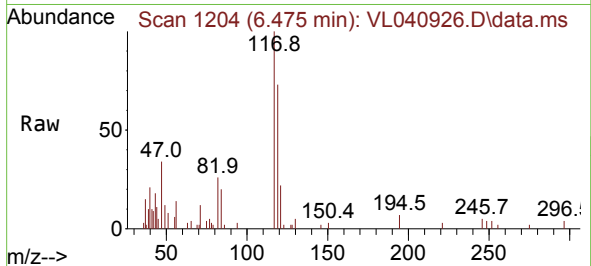
72 23.7 17.2 25.8





#35
Carbon Tetrachloride
Concen: 0.058 ppbv
RT: 6.475 min Scan# 1117
Delta R.T. 0.003 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

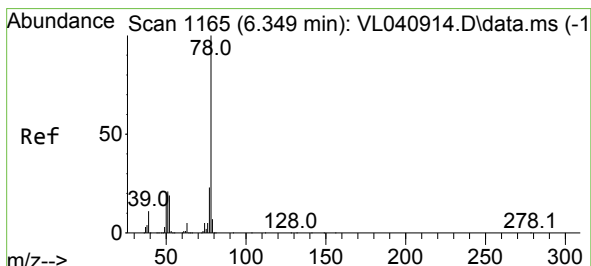
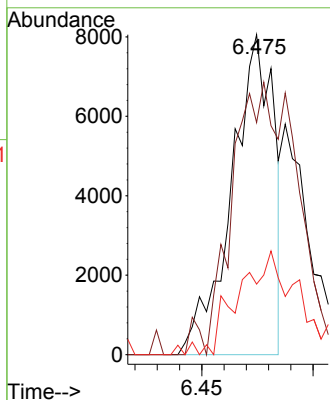
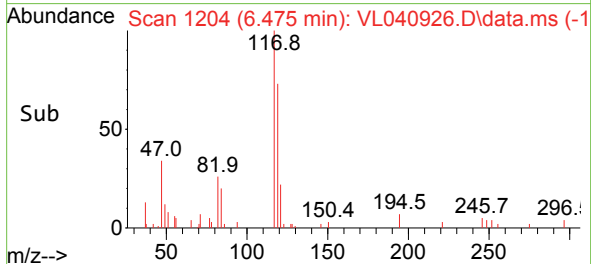
Instrument :
MSVOA_L
ClientSampleId :
10311



Tgt Ion: 117 Resp: 10639
Ion Ratio Lower Upper
117 100
119 72.5 76.3 114.5
121 19.1 24.9 37.3

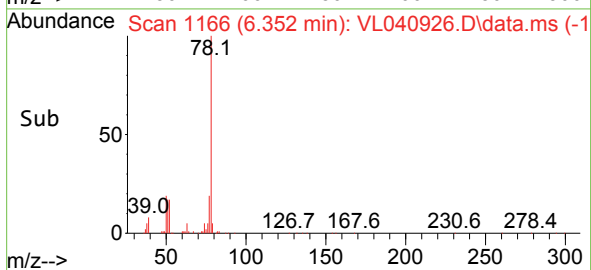
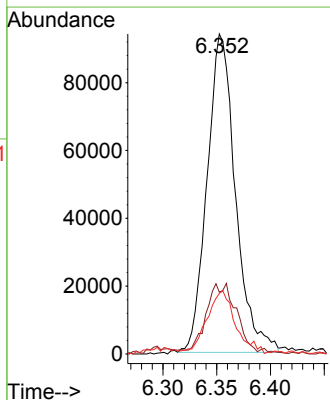
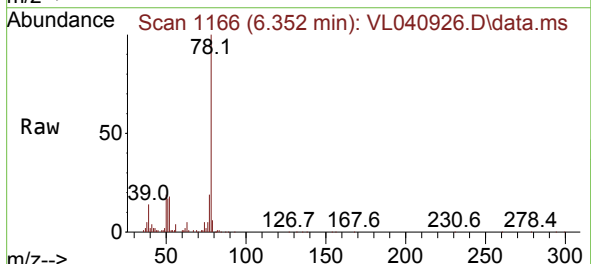
Manual Integrations
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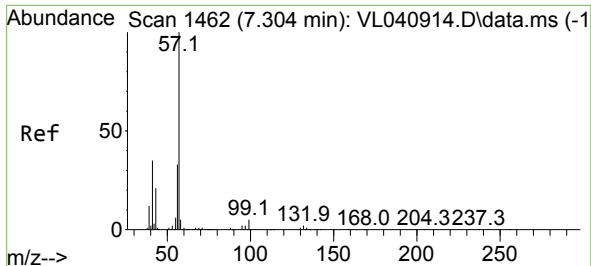
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#36
Benzene
Concen: 0.756 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. 0.003 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

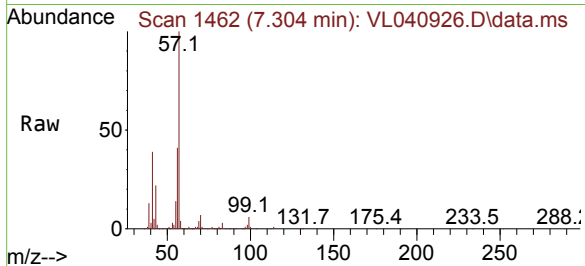
Tgt Ion: 78 Resp: 172621
Ion Ratio Lower Upper
78 100
77 18.9 18.4 27.6
50 18.2 16.0 24.0





#44
2,2,4-Trimethylpentane
Concen: 0.953 ppbv m
RT: 7.304 min Scan# 1462
Delta R.T. 0.000 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

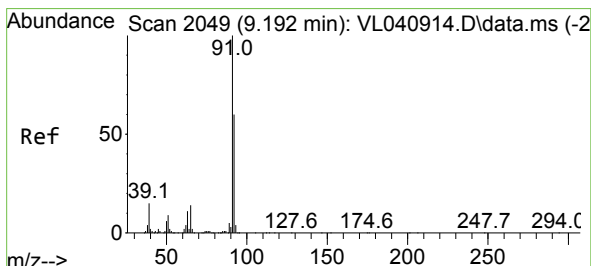
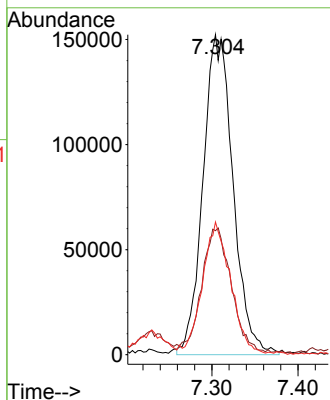
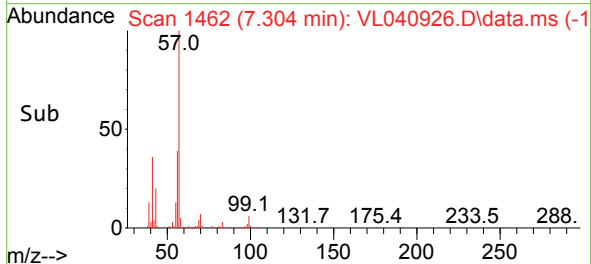
Instrument :
MSVOA_L
ClientSampleId :
10311



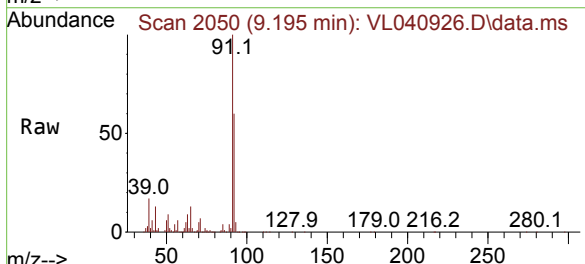
Tgt Ion: 57 Resp: 369504
Ion Ratio Lower Upper
57 100
41 39.9 28.2 42.4
56 0.0 25.3 37.9

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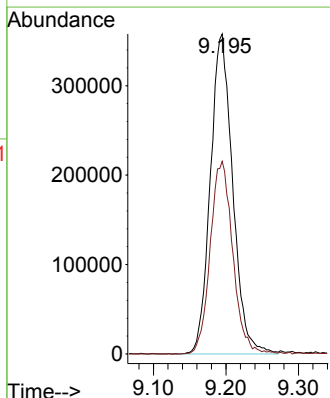
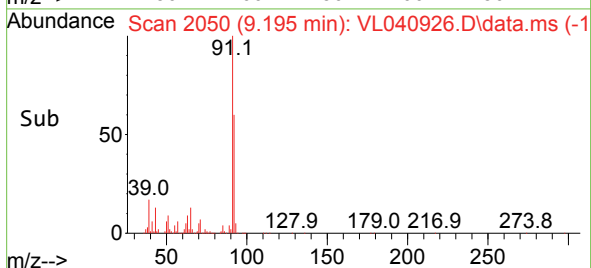
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

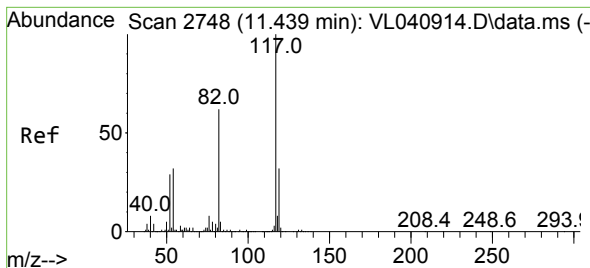


#53
Toluene
Concen: 3.026 ppbv
RT: 9.195 min Scan# 2050
Delta R.T. 0.003 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17



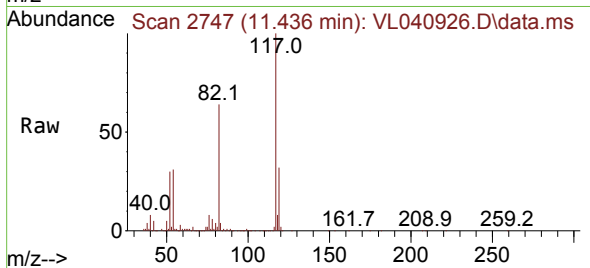
Tgt Ion: 91 Resp: 766069
Ion Ratio Lower Upper
91 100
92 60.9 49.2 73.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

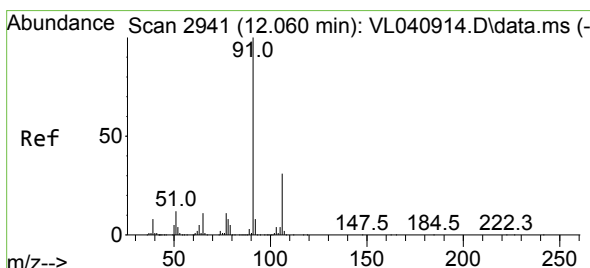
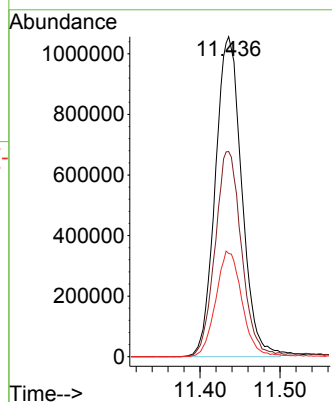
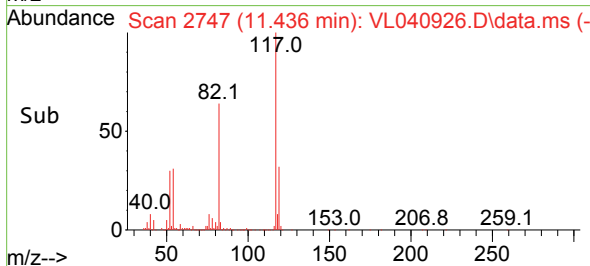
Instrument :
MSVOA_L
ClientSampleId :
10311



Tgt Ion:117 Resp: 242196
Ion Ratio Lower Upper
117 100
82 64.3 49.6 74.4
119 33.1 23.4 35.0

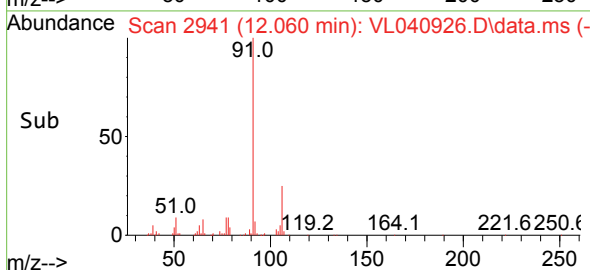
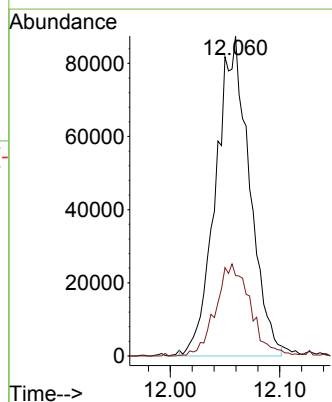
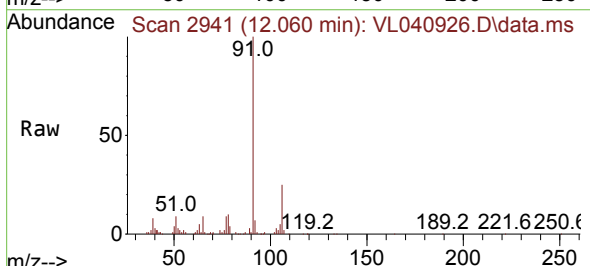
Manual Integrations
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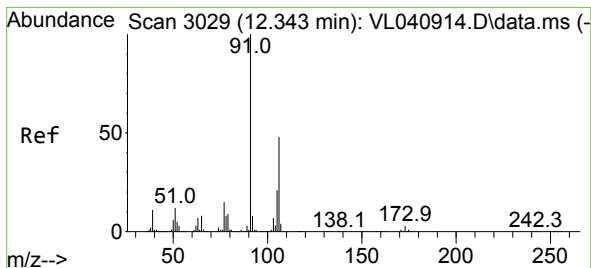
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#58
Ethyl Benzene
Concen: 0.601 ppbv m
RT: 12.060 min Scan# 2941
Delta R.T. 0.000 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

Tgt Ion: 91 Resp: 187019
Ion Ratio Lower Upper
91 100
106 25.2 24.9 37.3





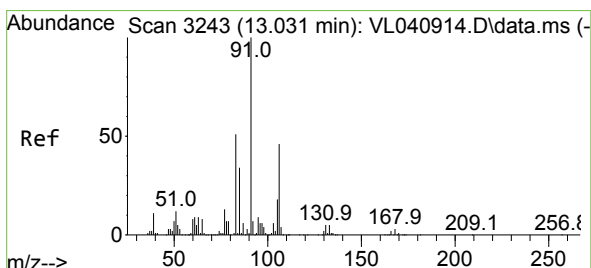
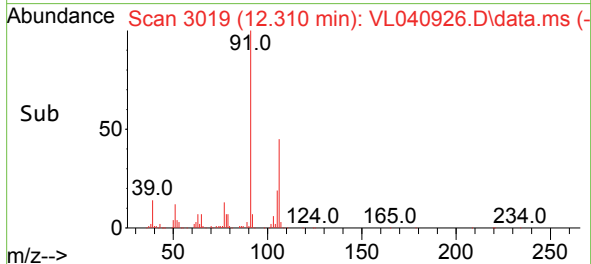
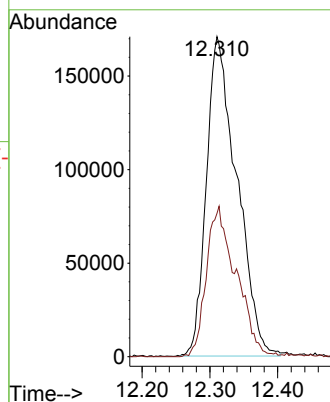
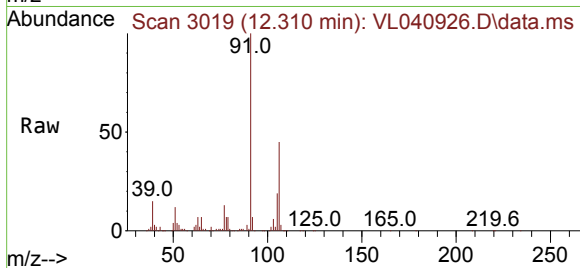
#59
m/p-Xylene
Concen: 2.008 ppbv
RT: 12.310 min Scan# 3029
Delta R.T. -0.032 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

Instrument :
MSVOA_L
ClientSampleId :
10311

Tgt Ion: 91 Resp: 531458
Ion Ratio Lower Upper
91 100
106 46.9 0.0 0.0

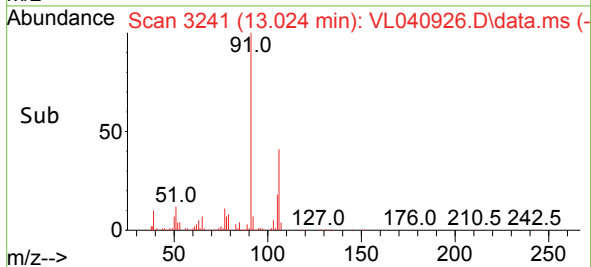
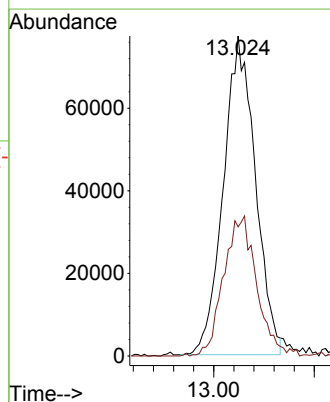
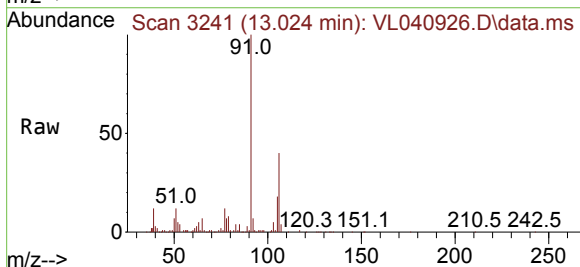
Manual Integrations
APPROVED

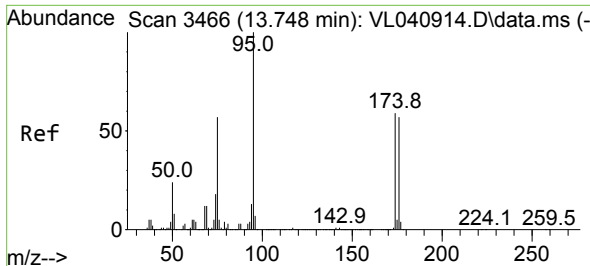
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#60
o-Xylene
Concen: 0.684 ppbv
RT: 13.024 min Scan# 3241
Delta R.T. -0.006 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

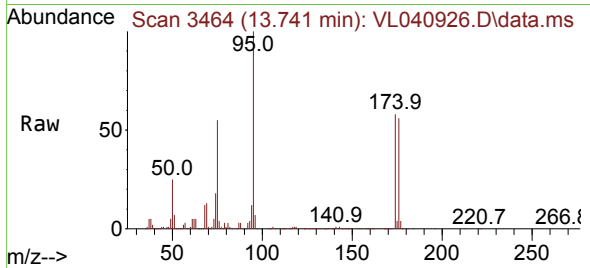
Tgt Ion: 91 Resp: 170506
Ion Ratio Lower Upper
91 100
106 45.4 22.6 67.7





#68
1-Bromo-4-Fluorobenzene
Concen: 9.702 ppbv
RT: 13.741 min Scan# 3466
Delta R.T. -0.006 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

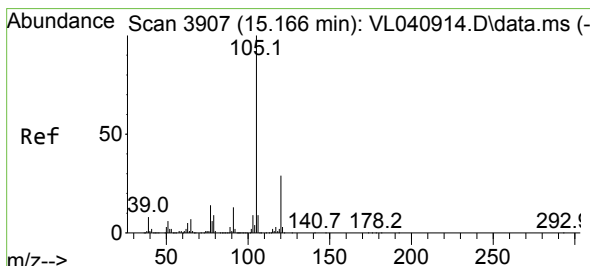
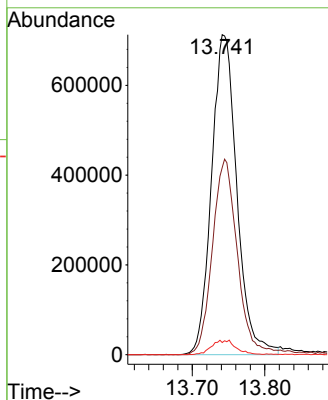
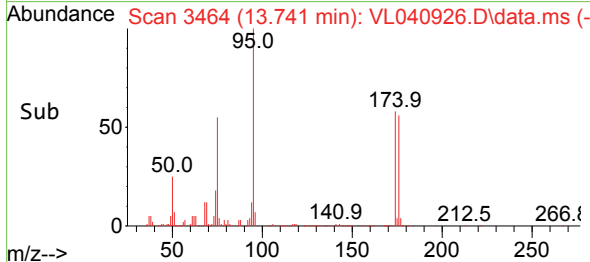
Instrument :
MSVOA_L
ClientSampleId :
10311



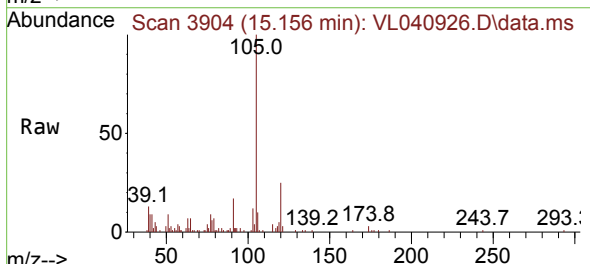
Tgt Ion: 95 Resp: 1730804
Ion Ratio Lower Upper
95 100
174 60.9 48.0 72.0
175 4.5 3.7 5.5

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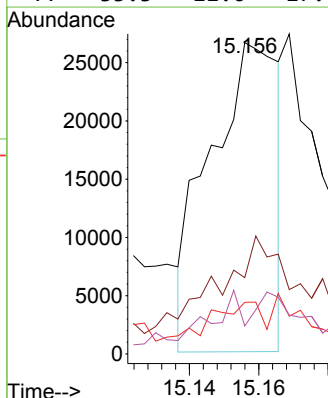
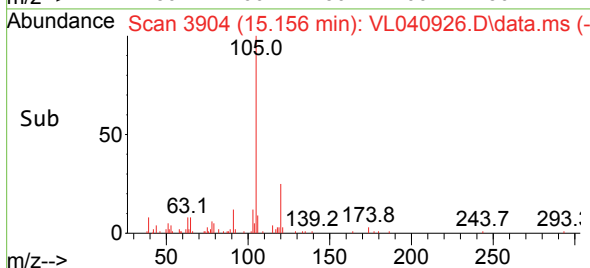
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023

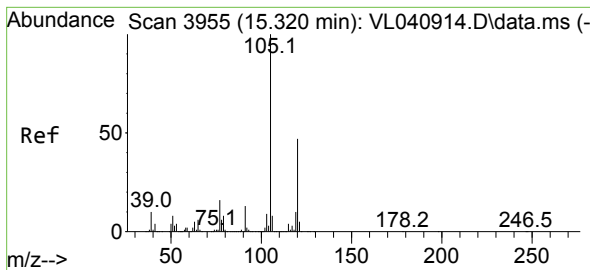


#72
4-Ethyltoluene
Concen: 0.132 ppbv
RT: 15.156 min Scan# 3904
Delta R.T. -0.010 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17



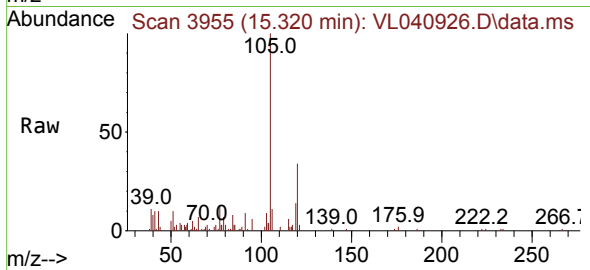
Tgt Ion:105 Resp: 36212
Ion Ratio Lower Upper
105 100
120 60.1 23.8 35.8#
91 0.0 10.9 16.3#
77 33.3 11.6 17.4#





#73
1,3,5-Trimethylbenzene
Concen: 0.205 ppbv m
RT: 15.320 min Scan# 3955
Delta R.T. 0.000 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

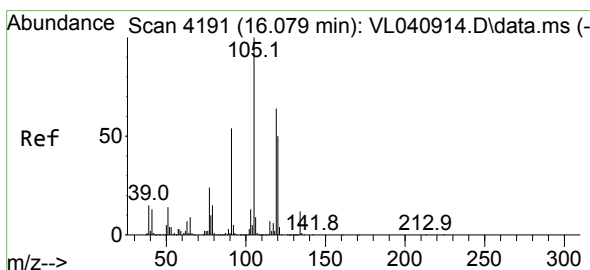
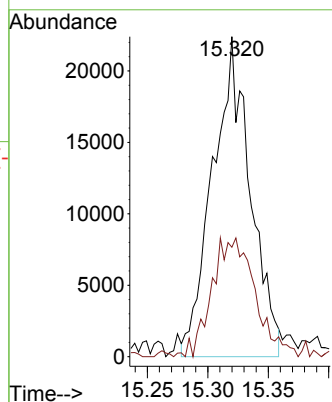
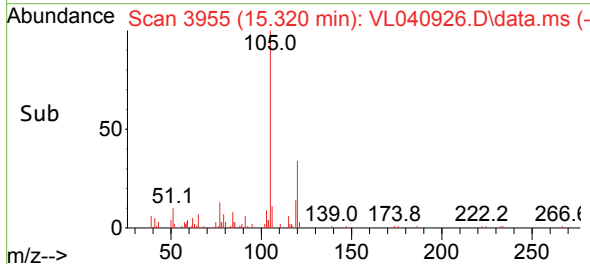
Instrument :
MSVOA_L
ClientSampleId :
10311



Tgt Ion:105 Resp: 48518
Ion Ratio Lower Upper
105 100
120 34.2 37.8 56.8

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



#74
1,2,4-Trimethylbenzene
Concen: 0.596 ppbv m
RT: 16.076 min Scan# 4190
Delta R.T. -0.003 min
Lab File: VL040926.D
Acq: 21 Dec 2023 12:17

Tgt Ion:105 Resp: 156713
Ion Ratio Lower Upper
105 100
120 38.8 40.2 60.4#
91 17.0 43.0 64.6#
77 13.5 18.9 28.3#

