

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040939.D
 Acq On : 21 Dec 2023 21:04
 Operator : SY/MD
 Sample : 05848-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

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

Quant Time: Dec 22 00:11:36 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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	5.188	49	1304434	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.639	114	3472391	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	3010406	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	2260692	10.195	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	46270	0.186	ppbv #	74
3) Chlorodifluoromethane	2.681	51	56163	0.286	ppbv #	67
9) Propene	2.722	41	24501m	0.378	ppbv	
10) Heptane	7.561	43	104554	0.649	ppbv	98
13) Ethanol	3.263	45	57853	3.541	ppbv	92
15) Acetone	3.481	43	1611410	10.300	ppbv	92
20) Methylene Chloride	3.941	84	50416	0.904	ppbv	95
22) trans-1,2-Dichloroethene	4.446	96	7622	0.107	ppbv	87
23) Vinyl Acetate	4.629	43	153811	0.891	ppbv #	94
25) Ethyl Acetate	5.211	43	675087	2.490	ppbv #	79
26) Hexane	5.211	57	936754	7.797	ppbv #	34
28) Methyl tert-Butyl Ether	4.590	73	30635m	0.275	ppbv	
29) Chloroform	5.266	83	76278	0.376	ppbv	89
30) Cyclohexane	6.587	84	8758m	0.087	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	191442	1.551	ppbv	99
34) 2-Butanone	4.787	43	1405790	7.653	ppbv	100
36) Benzene	6.356	78	35061	0.129	ppbv	98
38) Trichloroethene	7.275	130	2704799	26.530	ppbv	97
44) 2,2,4-Trimethylpentane	7.311	57	154642	0.335	ppbv #	1
51) 2-Hexanone	9.536	43	479060	2.392	ppbv	93
52) Tetrachloroethene	10.638	164	28650708	313.324	ppbv	88
53) Toluene	9.198	91	183674	0.610	ppbv	98
58) Ethyl Benzene	12.063	91	54300m	0.140	ppbv	
59) m/p-Xylene	12.314	91	145302m	0.442	ppbv	
60) o-Xylene	13.031	91	66431	0.214	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.043	83	18953m	0.085	ppbv	
74) 1,2,4-Trimethylbenzene	16.072	105	89510	0.274	ppbv #	69

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

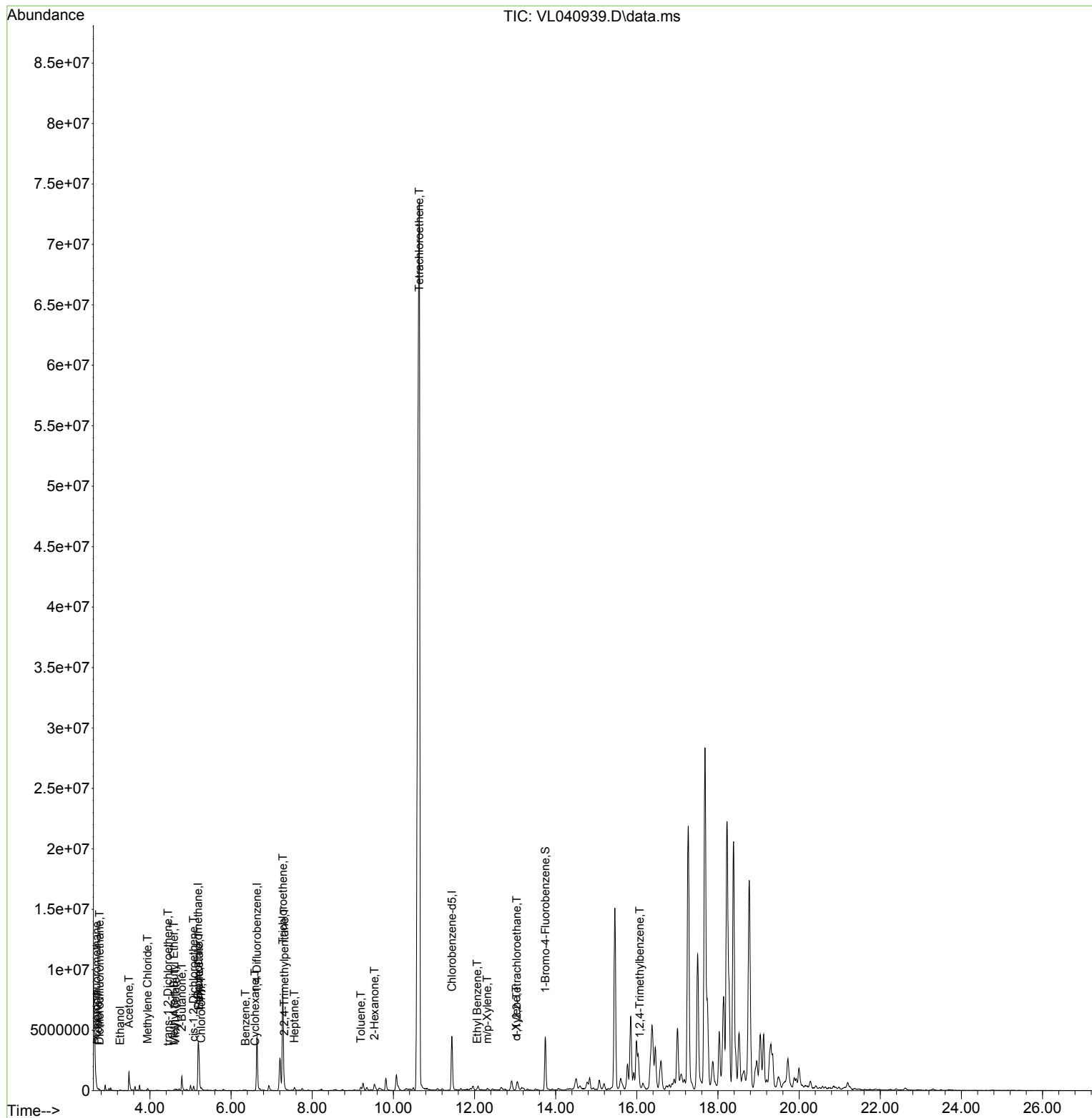
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
Data File : VL040939.D
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

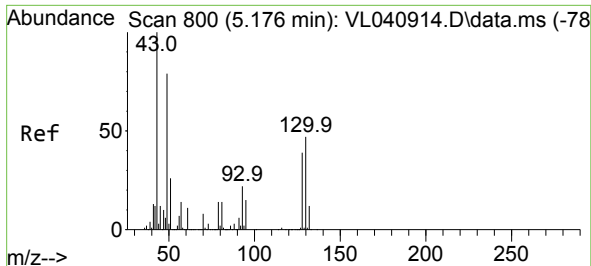
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Dec 22 00:11:36 2023
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

Manual Integrations
APPROVED

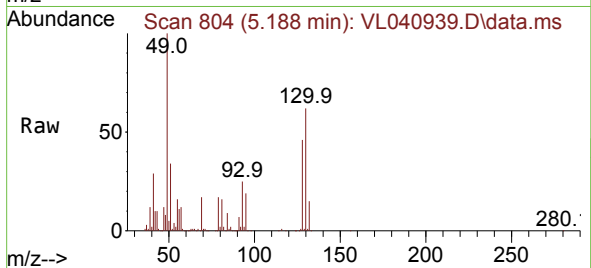
Reviewed By : Semsettin Yesilyurt 12/22/2023
Supervised By : Mahesh Dadoda 12/26/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 80
Delta R.T. 0.012 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

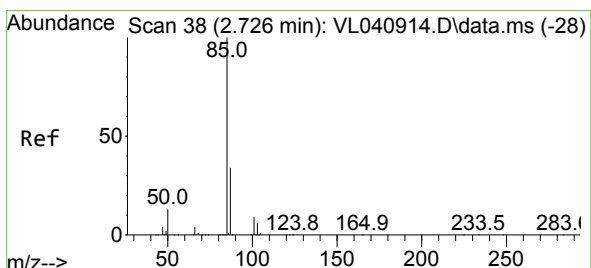
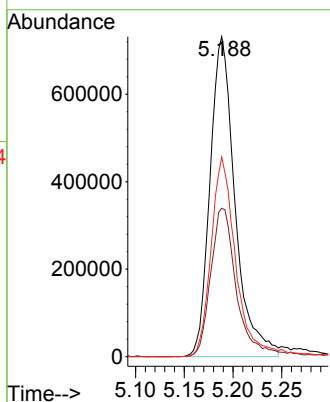
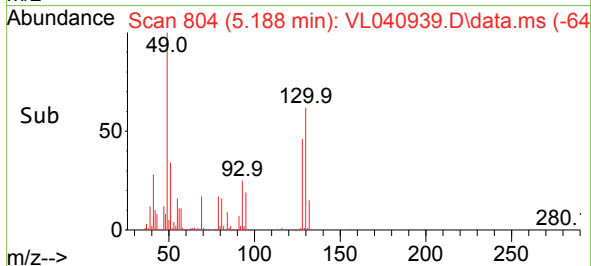
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 1304434
Ion Ratio Lower Upper
49 100
128 49.0 23.8 71.2
130 62.7 30.1 90.5

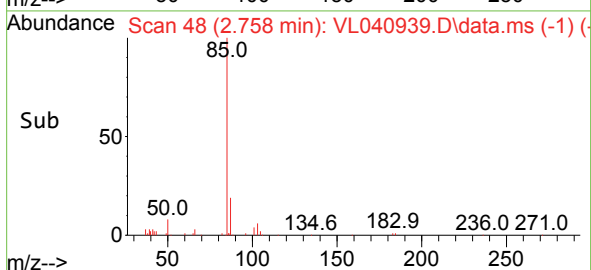
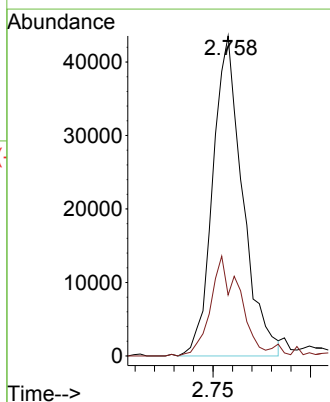
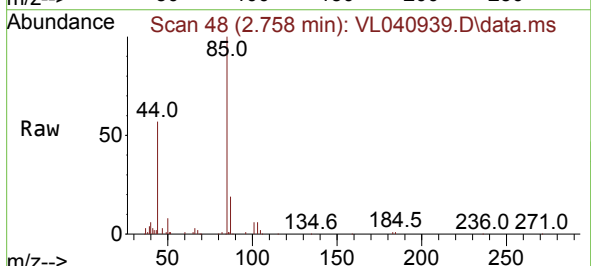
Manual Integrations
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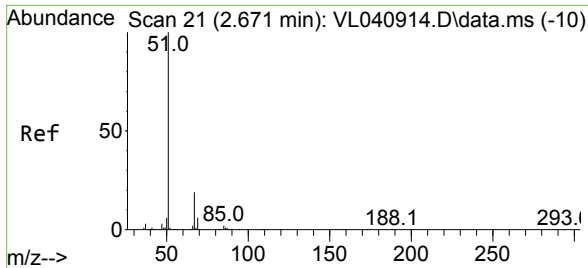
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#2
Dichlorodifluoromethane
Concen: 0.186 ppbv
RT: 2.758 min Scan# 48
Delta R.T. 0.032 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

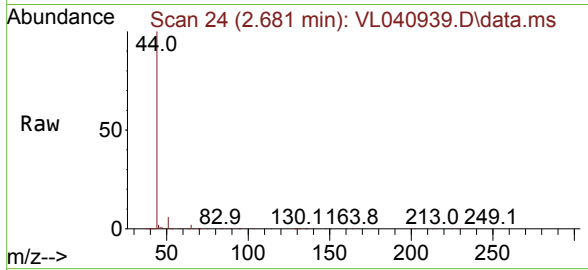
Tgt Ion: 85 Resp: 46270
Ion Ratio Lower Upper
85 100
87 19.1 27.0 40.6





#3
Chlorodifluoromethane
Concen: 0.286 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.010 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

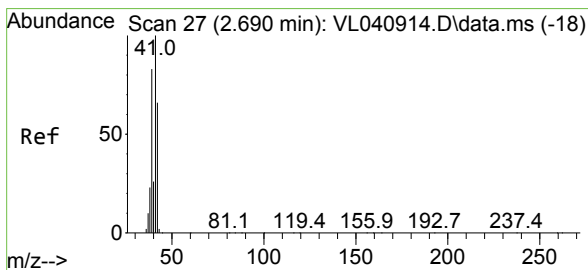
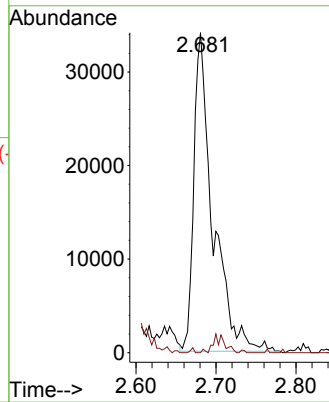
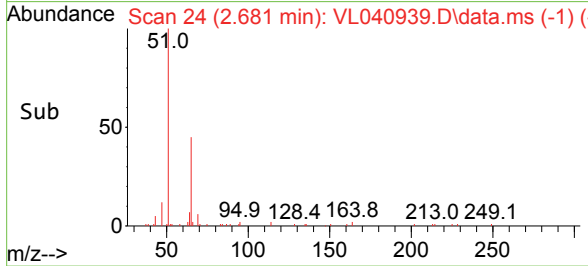
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 51 Resp: 5616
Ion Ratio Lower Upper
51 100
67 3.9 14.7 22.1

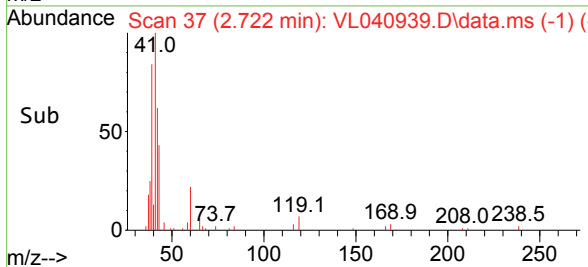
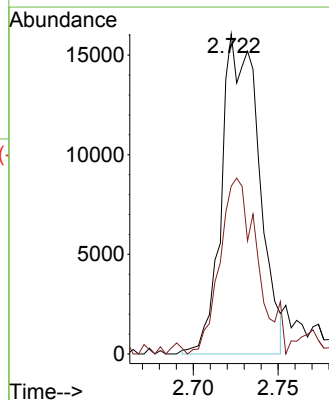
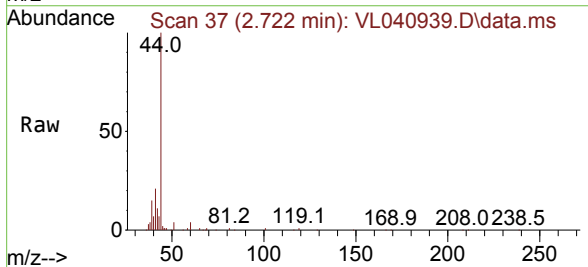
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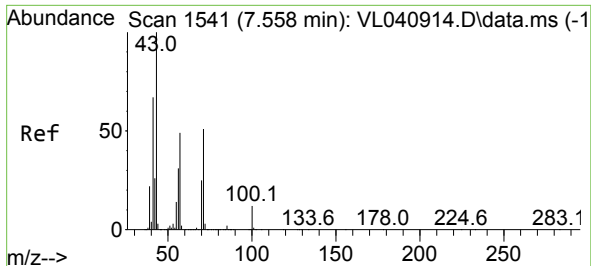
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#9
Propene
Concen: 0.378 ppbv m
RT: 2.722 min Scan# 37
Delta R.T. 0.032 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

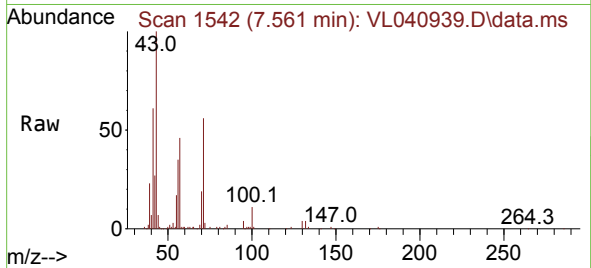
Tgt Ion: 41 Resp: 24501
Ion Ratio Lower Upper
41 100
42 61.7 55.8 83.6





#10
Heptane
Concen: 0.649 ppbv
RT: 7.561 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

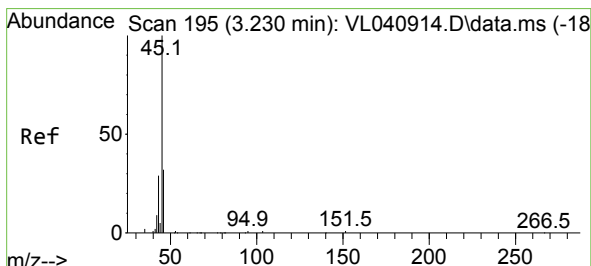
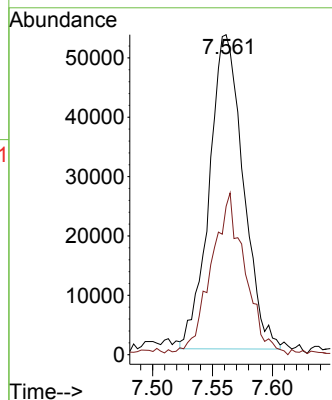
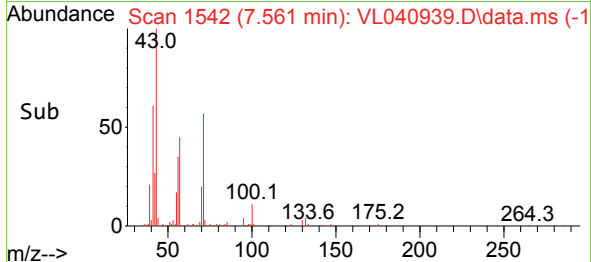
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 104554
Ion Ratio Lower Upper
43 100
57 50.7 39.3 58.9

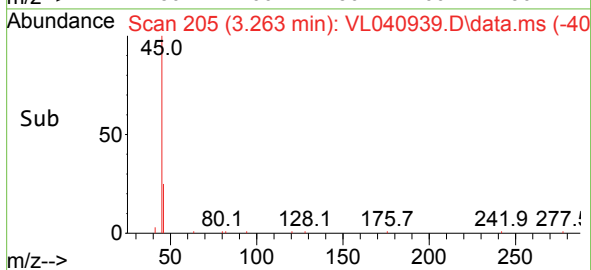
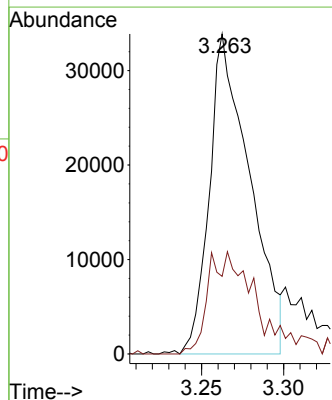
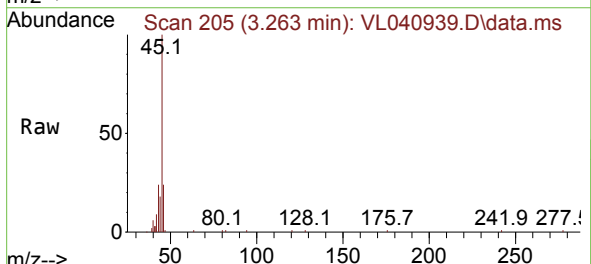
Manual Integrations
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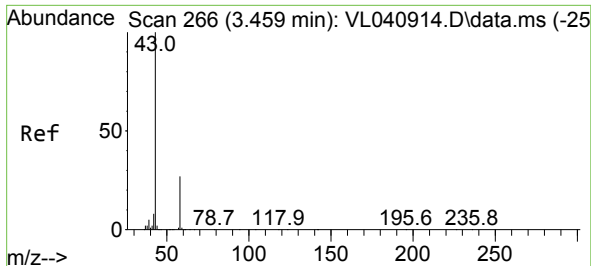
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#13
Ethanol
Concen: 3.541 ppbv
RT: 3.263 min Scan# 205
Delta R.T. 0.032 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

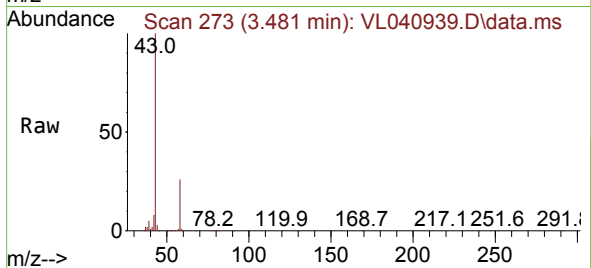
Tgt Ion: 45 Resp: 57853
Ion Ratio Lower Upper
45 100
46 42.3 15.0 60.0





#15
Acetone
Concen: 10.300 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

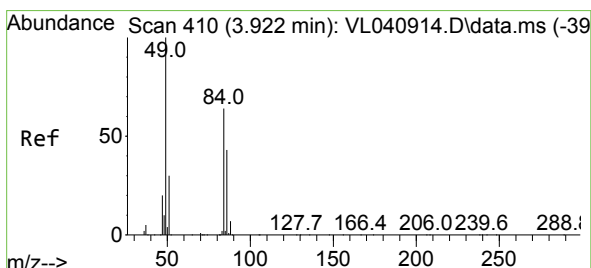
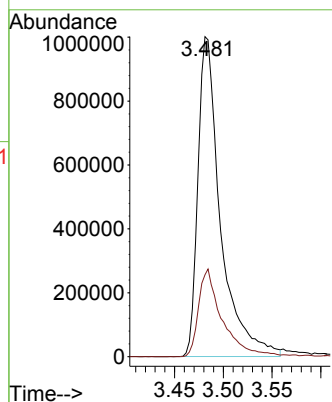
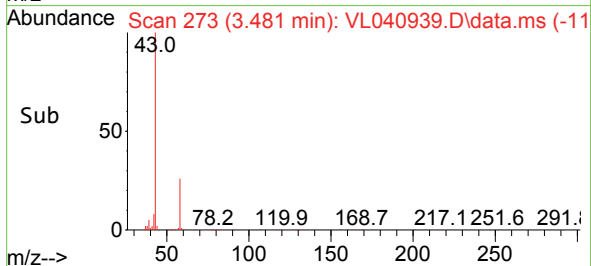
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 1611410
Ion Ratio Lower Upper
43 100
58 29.5 20.6 30.8

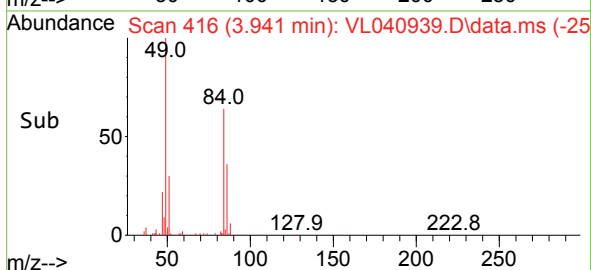
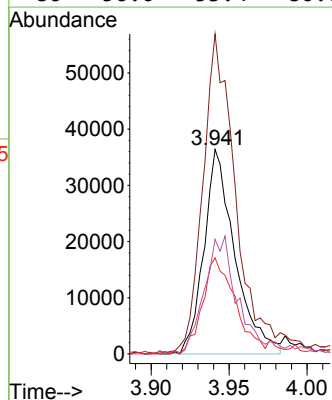
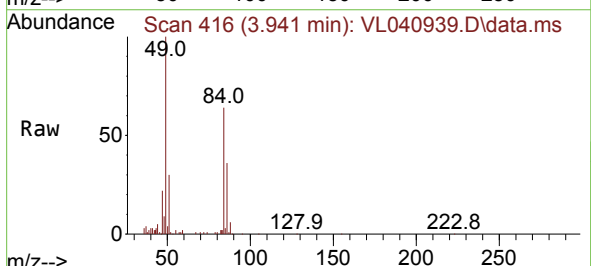
Manual Integrations
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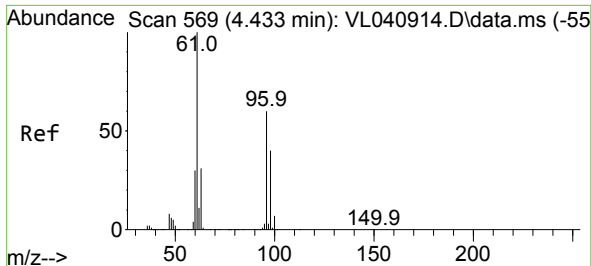
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#20
Methylene Chloride
Concen: 0.904 ppbv
RT: 3.941 min Scan# 416
Delta R.T. 0.019 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

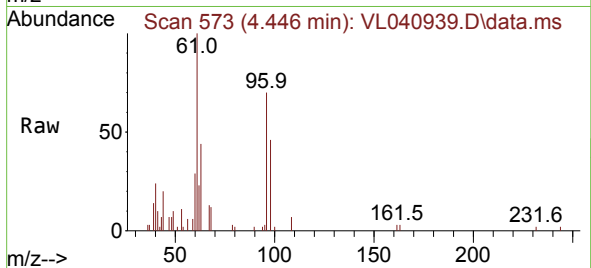
Tgt Ion: 84 Resp: 50416
Ion Ratio Lower Upper
84 100
49 152.4 124.6 187.0
51 46.4 37.2 55.8
86 56.0 53.4 80.0





#22
trans-1,2-Dichloroethene
Concen: 0.107 ppbv
RT: 4.446 min Scan# 51
Delta R.T. 0.013 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

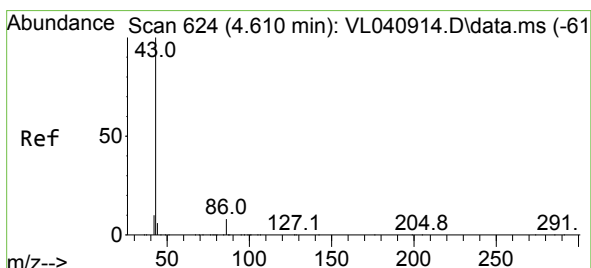
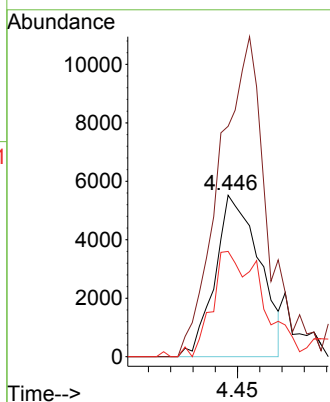
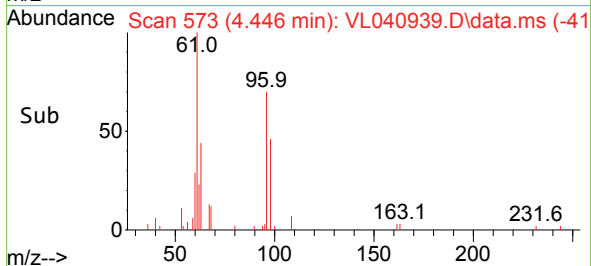
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 96 Resp: 762
Ion Ratio Lower Upper
96 100
61 142.7 133.0 199.6
98 65.2 53.7 80.5

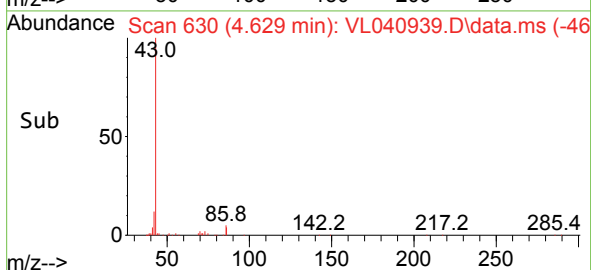
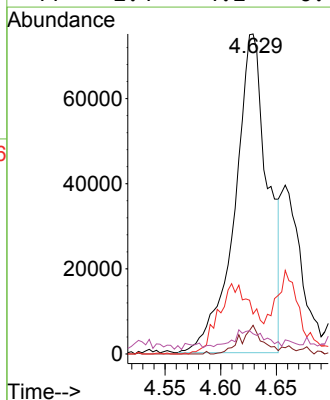
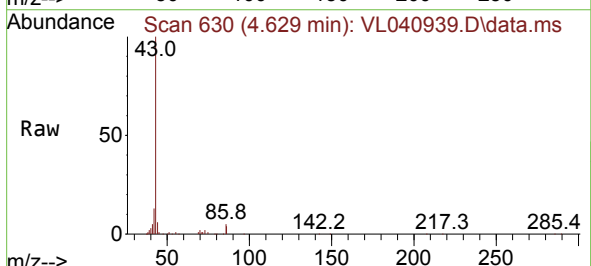
Manual Integrations
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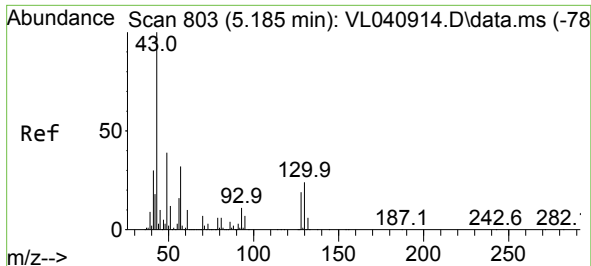
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#23
Vinyl Acetate
Concen: 0.891 ppbv
RT: 4.629 min Scan# 630
Delta R.T. 0.019 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

Tgt Ion: 43 Resp: 153811
Ion Ratio Lower Upper
43 100
86 9.0 5.5 8.3#
42 12.6 8.4 12.6
44 2.4 4.2 6.4#





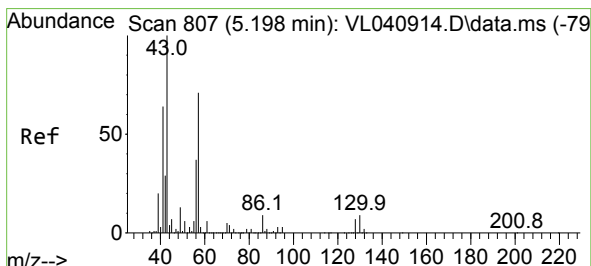
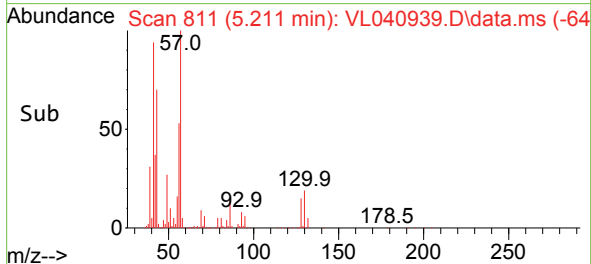
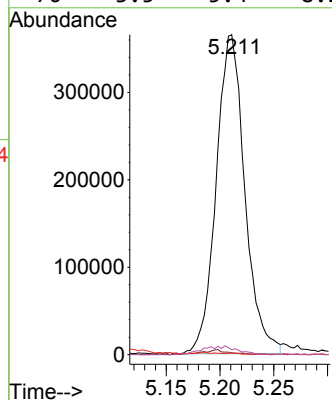
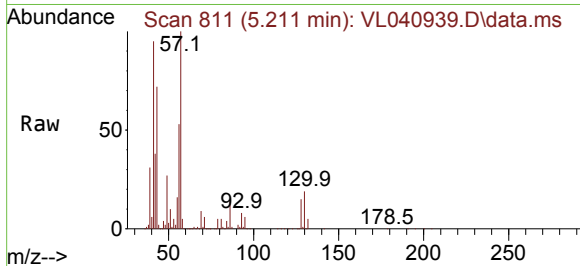
#25
Ethyl Acetate
Concen: 2.490 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 67508
Ion Ratio Lower Upper
43 100
45 1.7 8.2 12.2
61 0.0 7.6 11.4
70 3.5 5.4 8.2

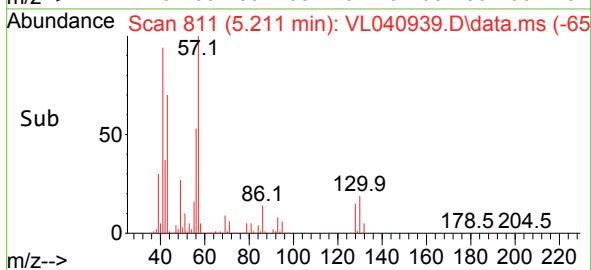
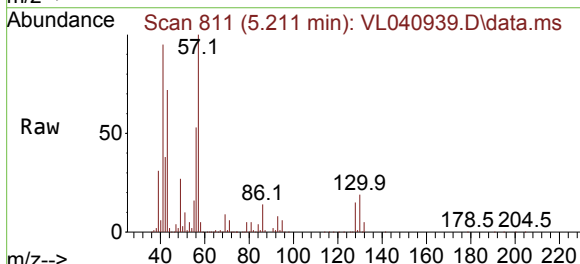
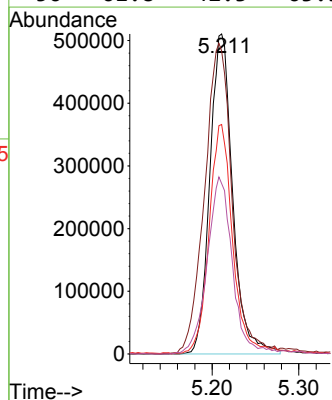
Manual Integrations
APPROVED

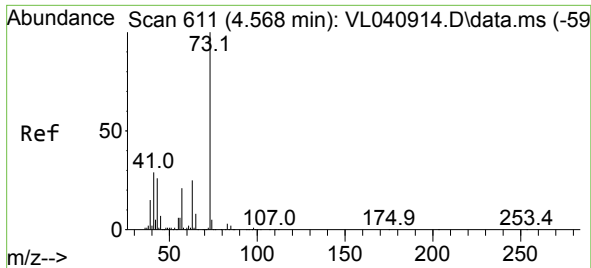
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#26
Hexane
Concen: 7.797 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

Tgt Ion: 57 Resp: 936754
Ion Ratio Lower Upper
57 100
41 118.5 75.2 112.8
43 75.6 188.0 282.0
56 61.8 42.3 63.5





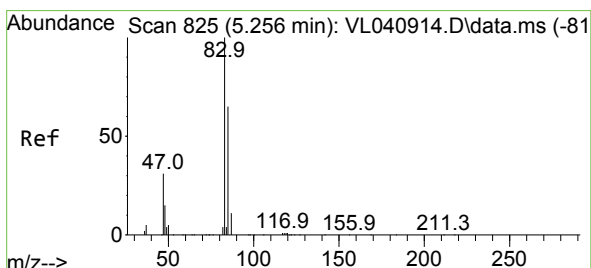
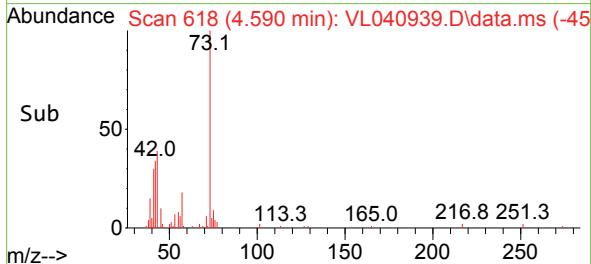
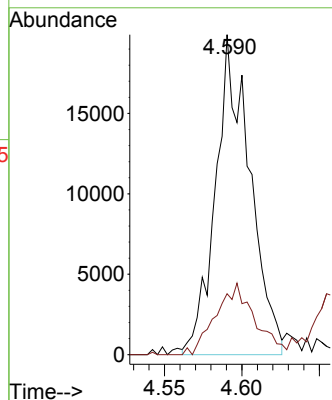
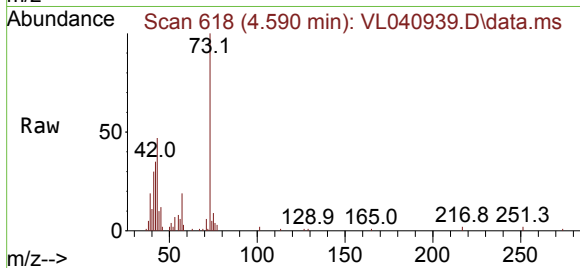
#28
Methyl tert-Butyl Ether
Concen: 0.275 ppbv m
RT: 4.590 min Scan# 611
Delta R.T. 0.022 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 73 Resp: 3063
Ion Ratio Lower Upper
73 100
57 0.0 18.0 27.0

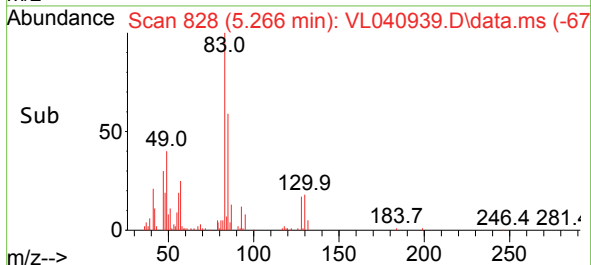
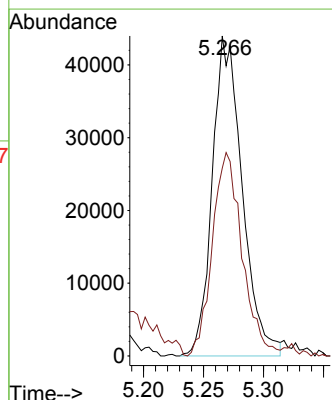
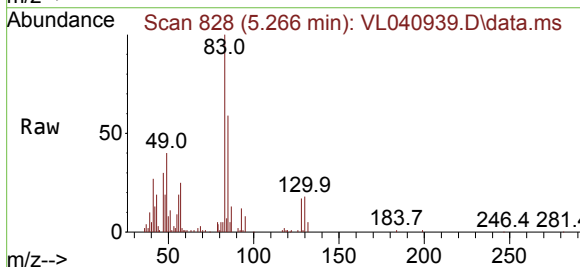
Manual Integrations
APPROVED

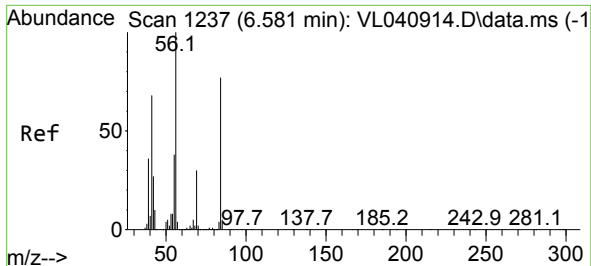
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#29
Chloroform
Concen: 0.376 ppbv
RT: 5.266 min Scan# 828
Delta R.T. 0.010 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

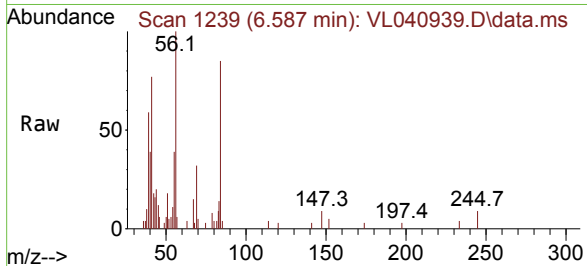
Tgt Ion: 83 Resp: 76278
Ion Ratio Lower Upper
83 100
85 56.9 52.3 78.5





#30
Cyclohexane
Concen: 0.087 ppbv m
RT: 6.587 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

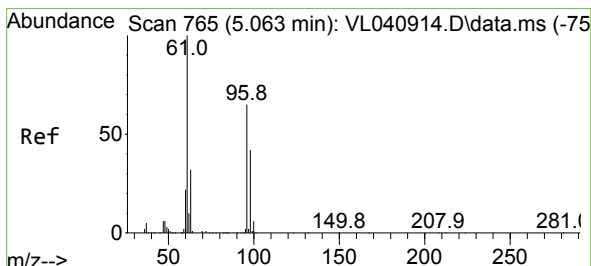
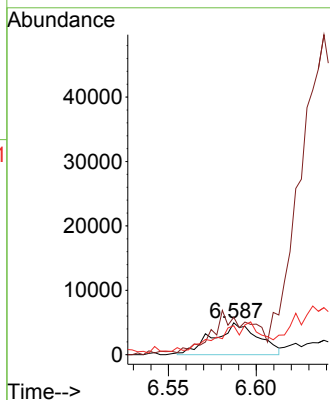
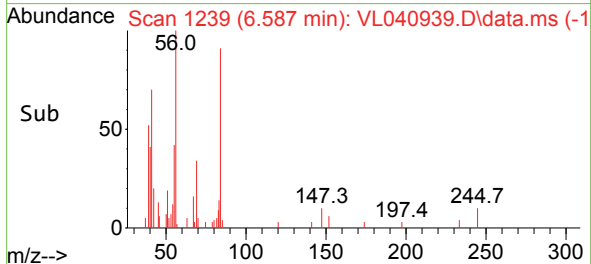
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 8758
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.2
41 97.5 70.0 105.0

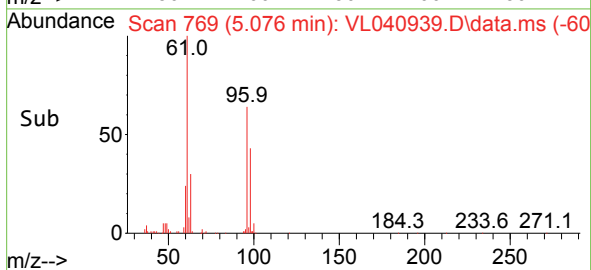
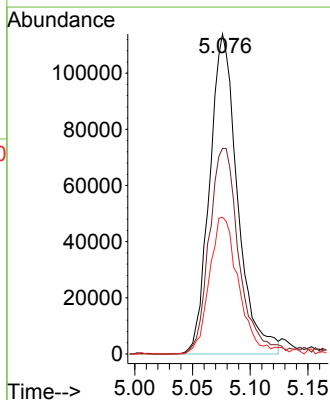
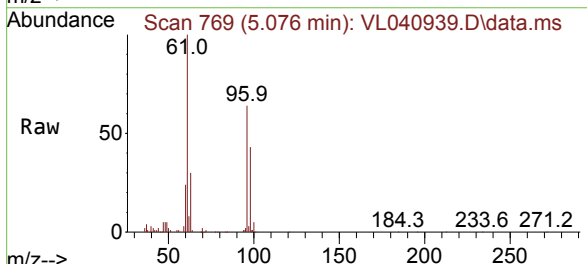
Manual Integrations
APPROVED

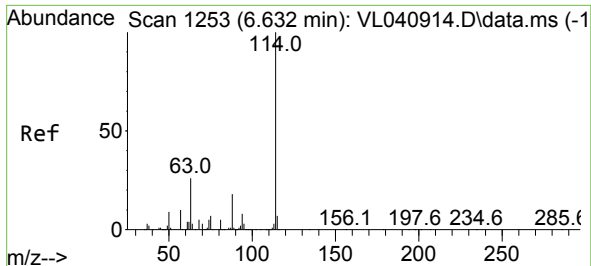
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#31
cis-1,2-Dichloroethene
Concen: 1.551 ppbv
RT: 5.076 min Scan# 769
Delta R.T. 0.013 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

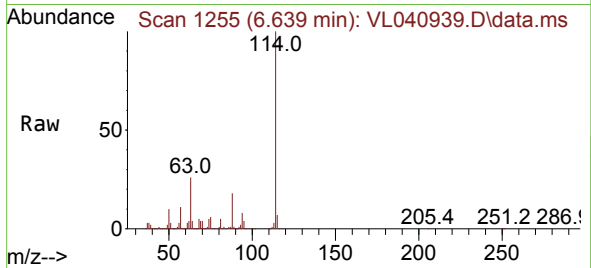
Tgt Ion: 61 Resp: 191442
Ion Ratio Lower Upper
61 100
96 64.3 51.7 77.5
98 42.5 33.2 49.8





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 114
Delta R.T. 0.006 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

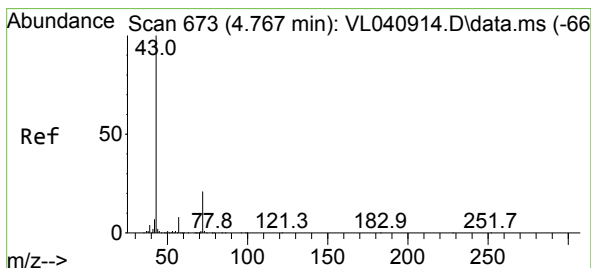
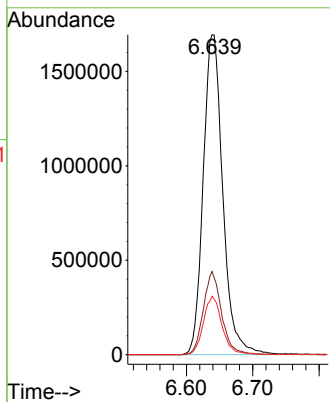
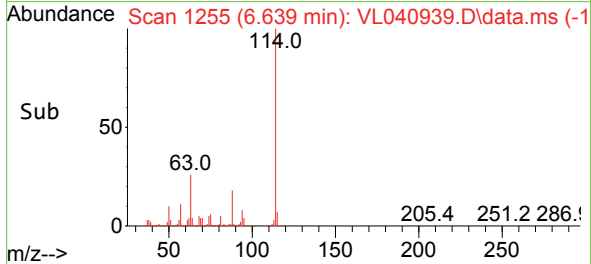
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:114 Resp: 347239
Ion Ratio Lower Upper
114 100
63 24.5 21.0 31.6
88 17.5 14.3 21.5

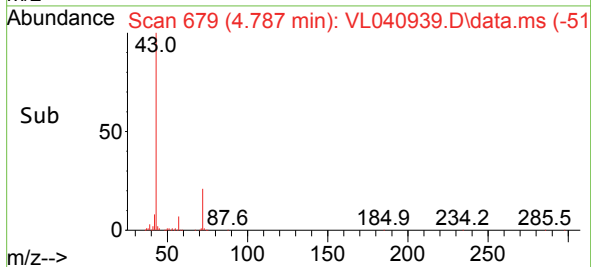
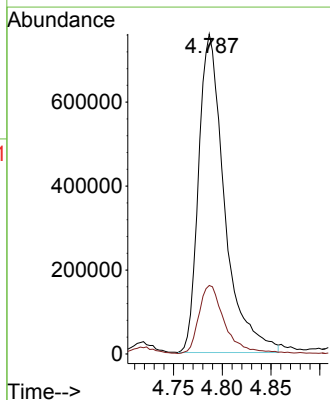
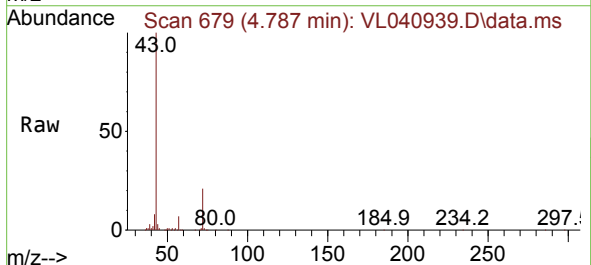
Manual Integrations
APPROVED

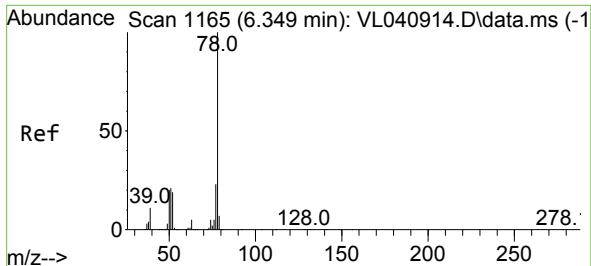
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#34
2-Butanone
Concen: 7.653 ppbv
RT: 4.787 min Scan# 679
Delta R.T. 0.019 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

Tgt Ion: 43 Resp: 1405790
Ion Ratio Lower Upper
43 100
72 21.6 17.2 25.8





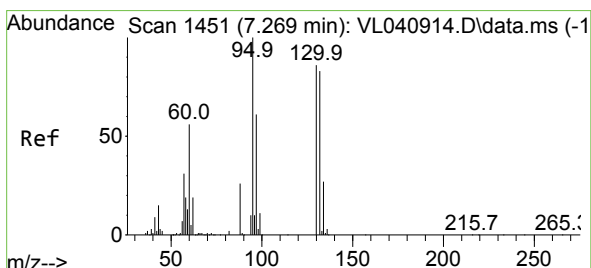
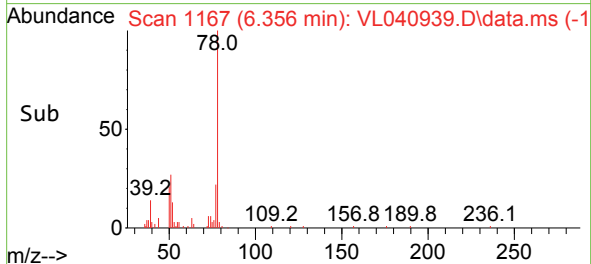
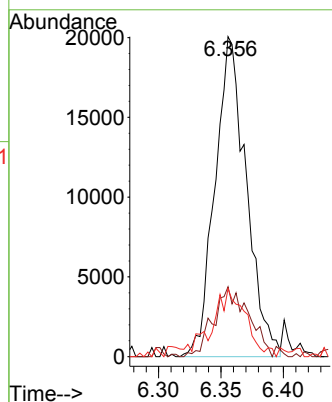
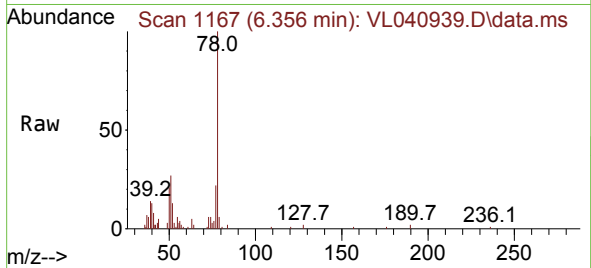
#36
Benzene
Concen: 0.129 ppbv
RT: 6.356 min Scan# 1165
Delta R.T. 0.006 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 78 Resp: 3506
Ion Ratio Lower Upper
78 100
77 22.3 18.4 27.6
50 19.2 16.0 24.0

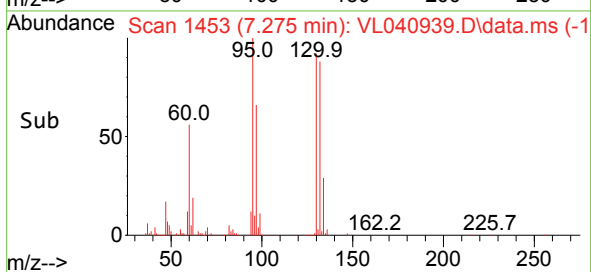
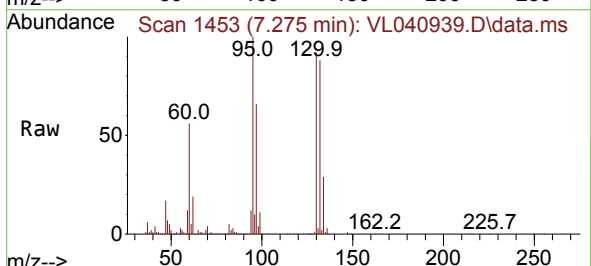
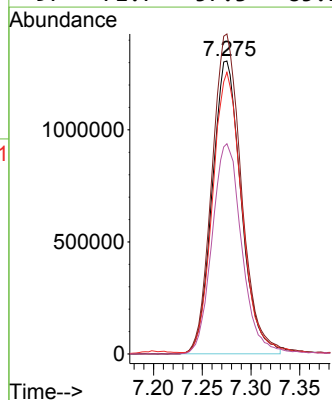
Manual Integrations
APPROVED

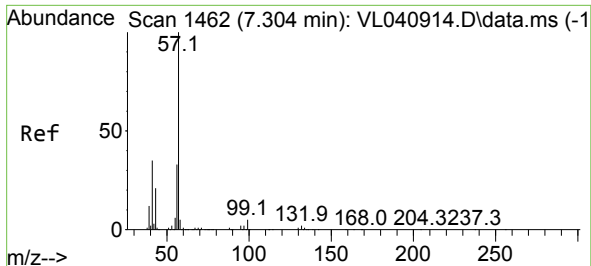
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#38
Trichloroethene
Concen: 26.530 ppbv
RT: 7.275 min Scan# 1453
Delta R.T. 0.006 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

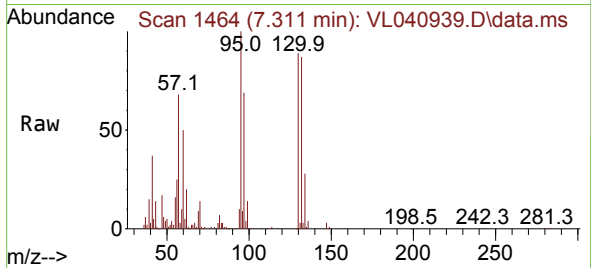
Tgt Ion:130 Resp: 2704799
Ion Ratio Lower Upper
130 100
95 109.1 93.5 140.3
132 95.6 77.4 116.2
97 71.7 57.3 85.9





#44
2,2,4-Trimethylpentane
Concen: 0.335 ppbv
RT: 7.311 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

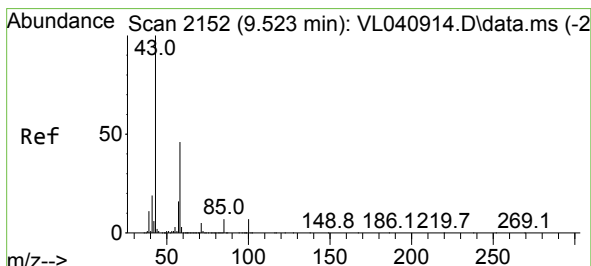
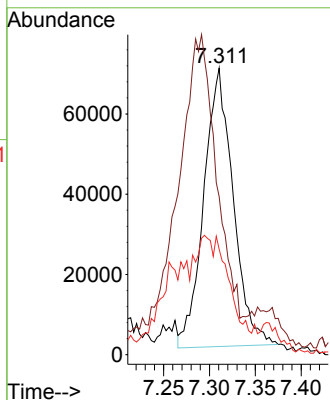
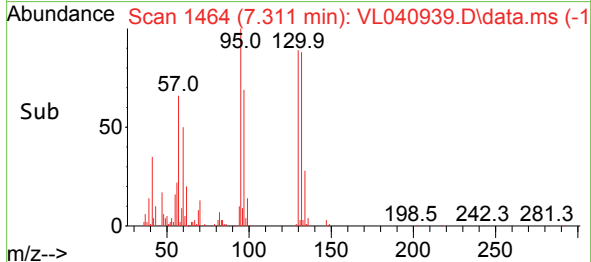
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 15464
Ion Ratio Lower Upper
57 100
41 161.2 28.2 42.4
56 86.0 25.3 37.9

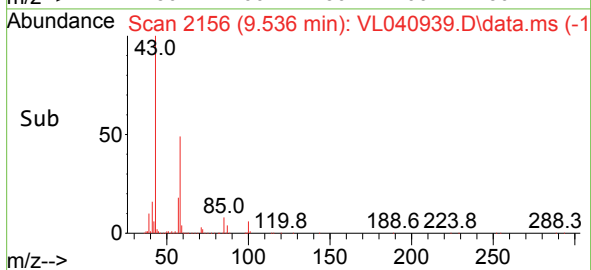
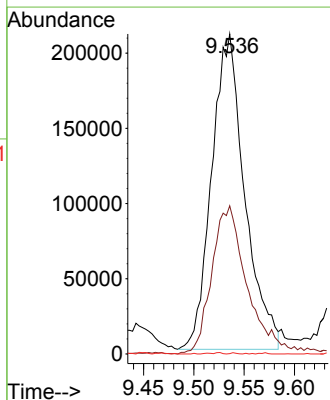
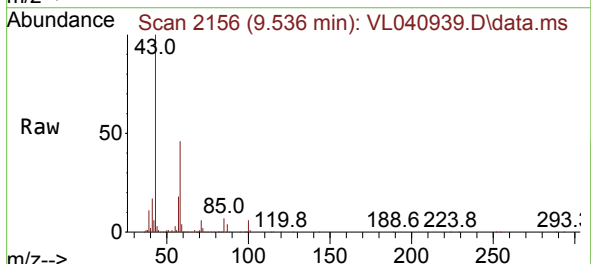
Manual Integrations
APPROVED

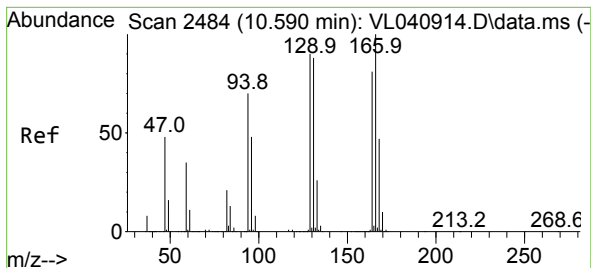
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#51
2-Hexanone
Concen: 2.392 ppbv
RT: 9.536 min Scan# 2156
Delta R.T. 0.013 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

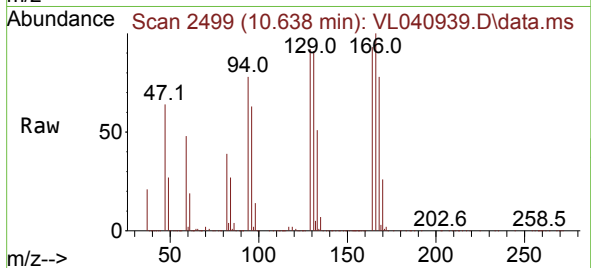
Tgt Ion: 43 Resp: 479060
Ion Ratio Lower Upper
43 100
58 51.0 37.3 55.9
98 0.2 0.2 0.2





#52
Tetrachloroethene
Concen: 313.324 ppbv
RT: 10.638 min Scan# 2484
Delta R.T. 0.048 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

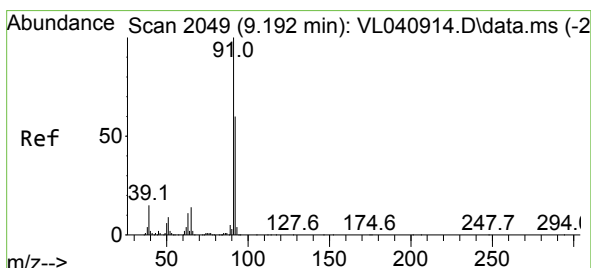
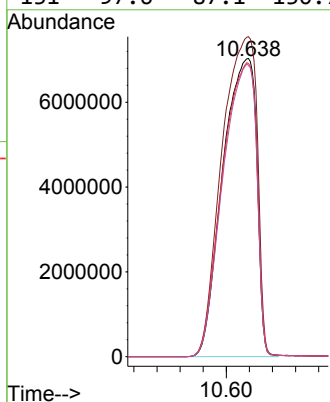
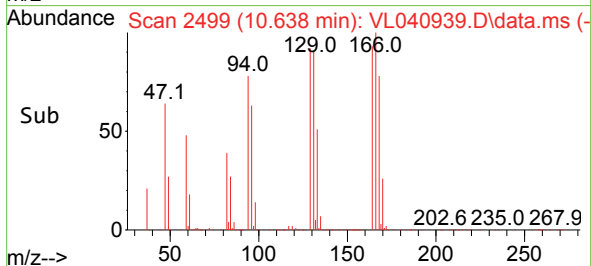
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp:28650708
Ion Ratio Lower Upper
164 100
166 107.3 98.9 148.3
129 98.3 88.7 133.1
131 97.6 87.1 130.7

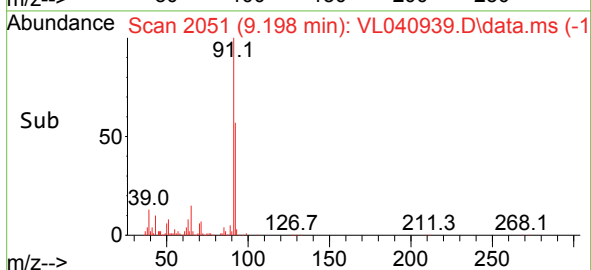
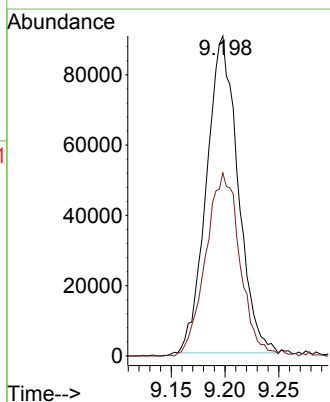
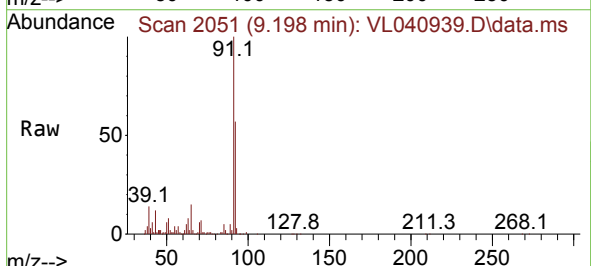
Manual Integrations
APPROVED

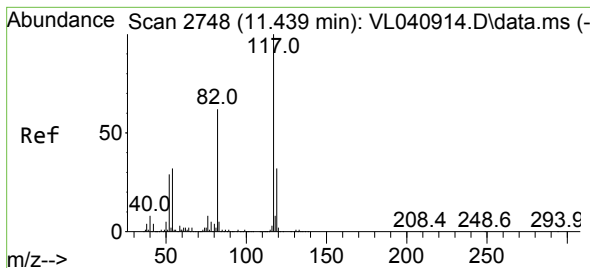
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#53
Toluene
Concen: 0.610 ppbv
RT: 9.198 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

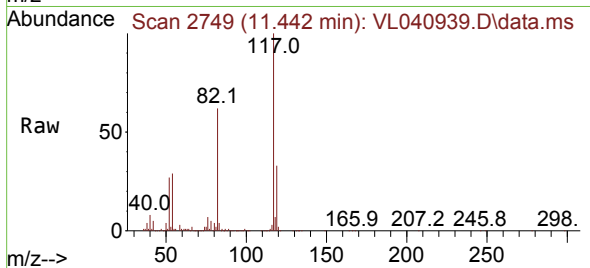
Tgt Ion: 91 Resp: 183674
Ion Ratio Lower Upper
91 100
92 62.8 49.2 73.8





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

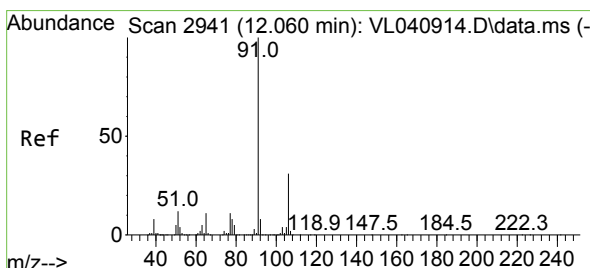
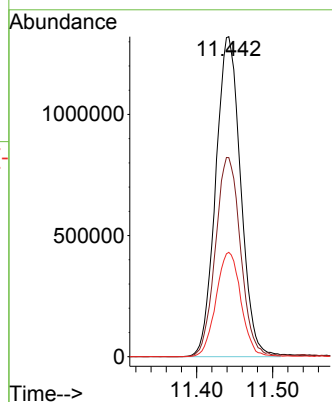
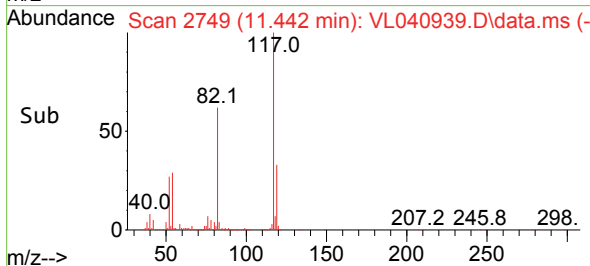
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:117 Resp: 3010400
Ion Ratio Lower Upper
117 100
82 63.0 49.6 74.4
119 32.8 23.4 35.0

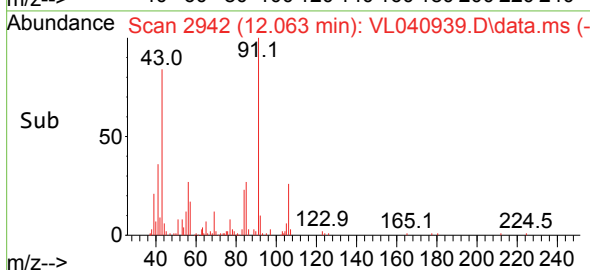
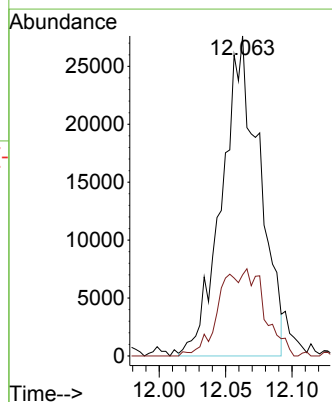
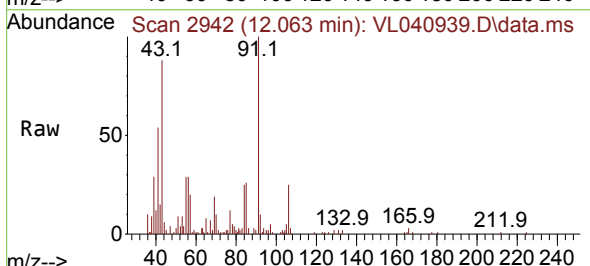
Manual Integrations
APPROVED

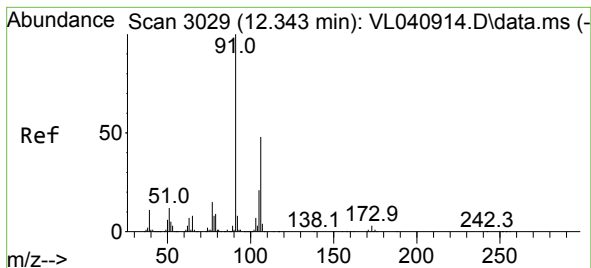
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#58
Ethyl Benzene
Concen: 0.140 ppbv m
RT: 12.063 min Scan# 2942
Delta R.T. 0.003 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

Tgt Ion: 91 Resp: 54300
Ion Ratio Lower Upper
91 100
106 25.3 24.9 37.3





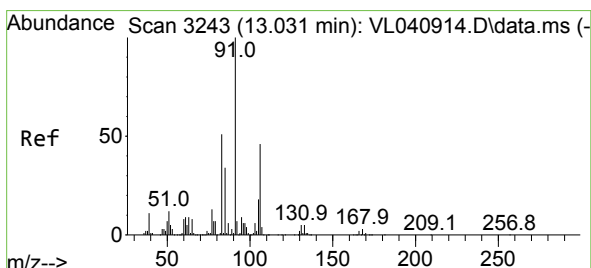
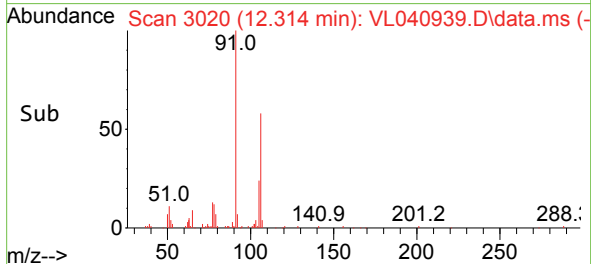
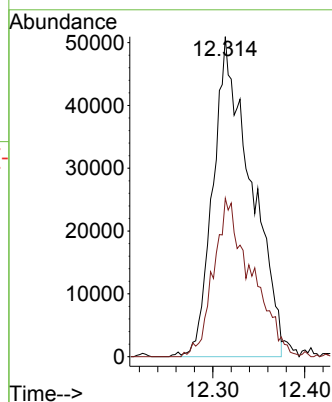
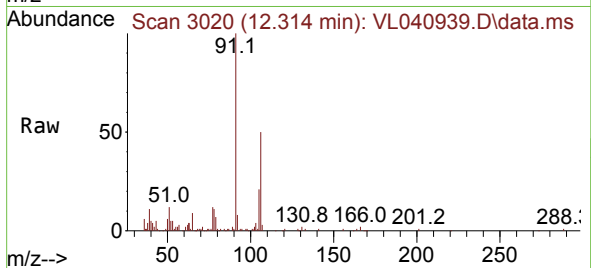
#59
m/p-Xylene
Concen: 0.442 ppbv m
RT: 12.314 min Scan# 3029
Delta R.T. -0.029 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 145302
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

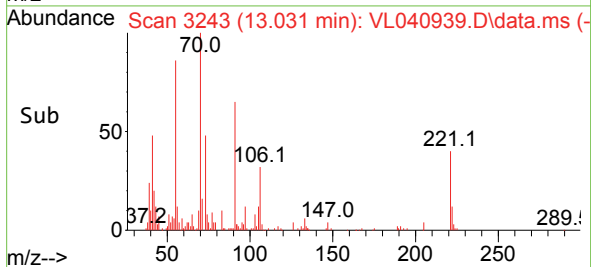
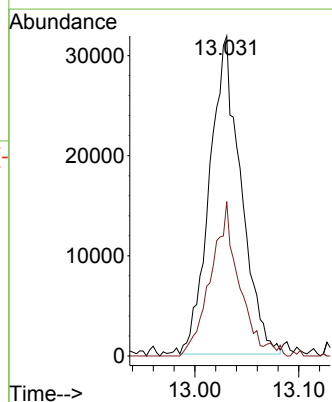
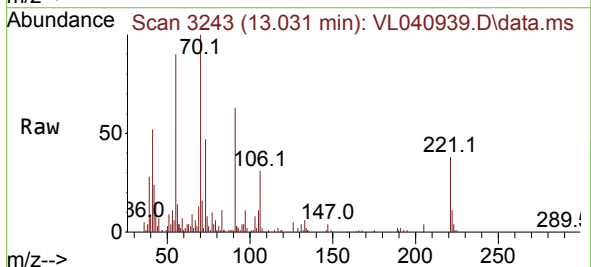
Manual Integrations
APPROVED

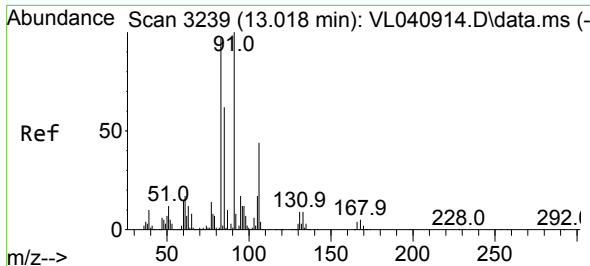
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#60
o-Xylene
Concen: 0.214 ppbv
RT: 13.031 min Scan# 3243
Delta R.T. -0.000 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

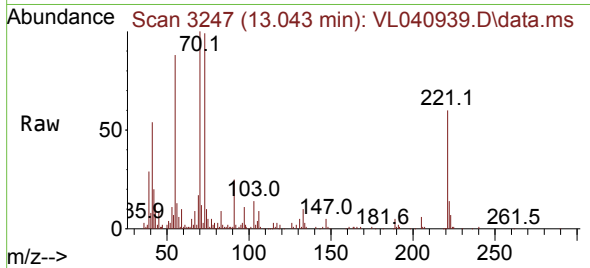
Tgt Ion: 91 Resp: 66431
Ion Ratio Lower Upper
91 100
106 44.4 22.6 67.7





#63
1,1,2,2-Tetrachloroethane
Concen: 0.085 ppbv m
RT: 13.043 min Scan# 31
Delta R.T. 0.026 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

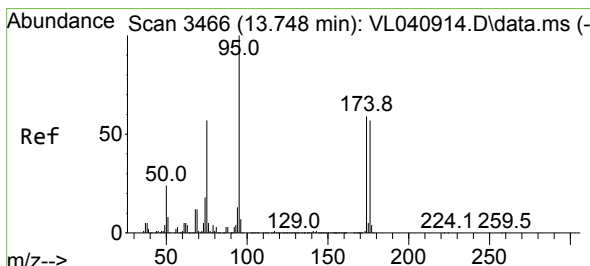
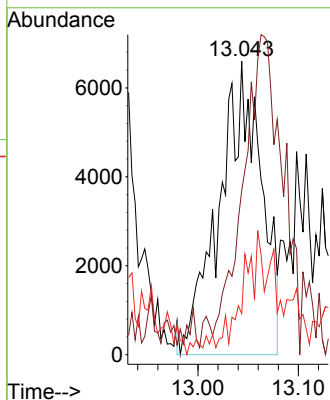
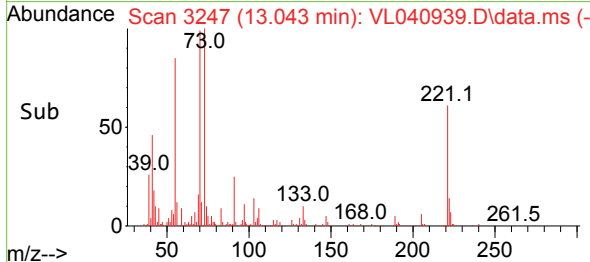
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 83 Resp: 1895
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.0
85 0.0 32.6 98.0

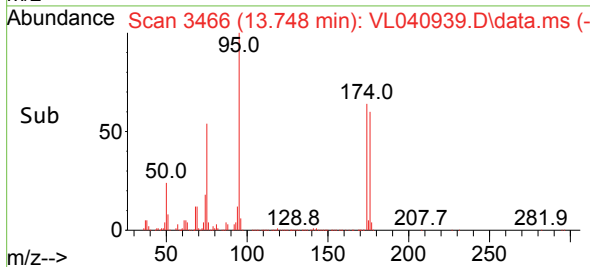
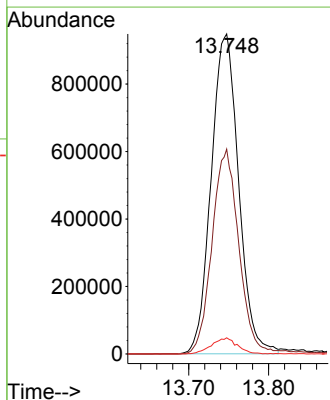
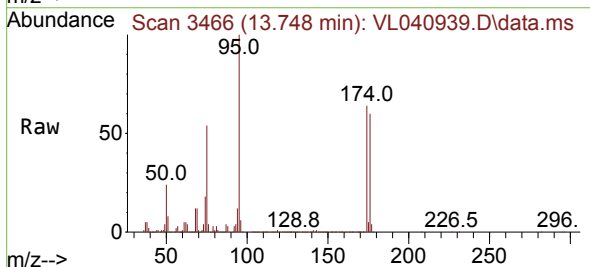
Manual Integrations
APPROVED

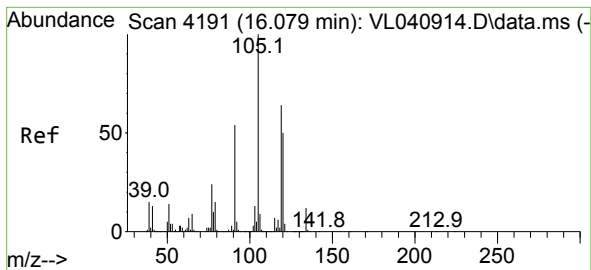
Reviewed By :Semsettin Yesilyurt 12/22/2023
Supervised By :Mahesh Dadoda 12/26/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 10.195 ppbv
RT: 13.748 min Scan# 3466
Delta R.T. -0.000 min
Lab File: VL040939.D
Acq: 21 Dec 2023 21:04

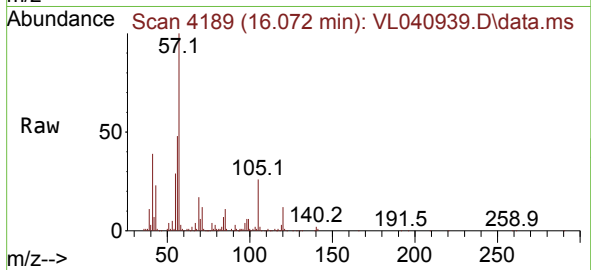
Tgt Ion: 95 Resp: 2260692
Ion Ratio Lower Upper
95 100
174 63.5 48.0 72.0
175 4.9 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.274 ppbv
 RT: 16.072 min Scan# 4191
 Delta R.T. -0.006 min
 Lab File: VL040939.D
 Acq: 21 Dec 2023 21:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion:	105	Resp:	89510
Ion Ratio	Lower	Upper	
105	100		
120	47.4	40.2	60.4
91	11.4	43.0	64.6
77	13.1	18.9	28.3

Manual Integrations
 APPROVED

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

