

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052322\
 Data File : VL039111.D
 Acq On : 24 May 2022 9:11
 Operator : SY/AP
 Sample : N2991-02 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/25/2022
 Supervised By :Mahesh Dadoda 05/26/2022

Quant Time: May 25 04:15:46 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 26 13:07:26 2022

QLast Update : Thu May 05 10:12:15 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.645	49	1241737	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	7.153	114	3101892	10.000	ppbv	-0.02
55) Chlorobenzene-d5	12.050	117	2774048	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.378 95 2266445 10.317 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.200%

Target Compounds

					Qvalue	
9) Propene	3.002	41	166427m	2.473	ppbv	
10) Heptane	8.092	43	671874	4.070	ppbv	100
13) Ethanol	3.587	45	535419	112.438	ppbv	90
15) Acetone	3.829	43	17118022	146.142	ppbv #	82
17) tert-Butyl alcohol	4.276	59	84581	0.940	ppbv #	93
19) Isopropyl Alcohol	3.948	45	403909m	7.253	ppbv	
20) Methylene Chloride	4.330	84	46527m	1.054	ppbv	
26) Hexane	5.665	57	150681	1.210	ppbv #	37
27) Carbon Disulfide	4.533	76	29220	0.247	ppbv #	72
29) Chloroform	5.735	83	26294	0.130	ppbv	96
30) Cyclohexane	7.108	84	69396m	0.665	ppbv	
34) 2-Butanone	5.224	43	311600m	1.969	ppbv	
36) Benzene	6.864	78	187238	0.705	ppbv	96
38) Trichloroethene	7.806	130	5160m	0.044	ppbv	
44) 2,2,4-Trimethylpentane	7.841	57	429897	0.923	ppbv #	70
50) 4-Methyl-2-Pentanone	8.719	43	74798m	0.270	ppbv	
51) 2-Hexanone	10.108	43	43839m	0.216	ppbv	
52) Tetrachloroethene	11.192	164	142964	1.507	ppbv	93
53) Toluene	9.774	91	1733743	5.827	ppbv	99
58) Ethyl Benzene	12.674	91	402060	1.007	ppbv	98
59) m/p-Xylene	12.931	91	1363369m	4.000	ppbv	
60) o-Xylene	13.651	91	329193	1.026	ppbv	98
61) Styrene	13.491	104	18175m	0.106	ppbv	
62) Isopropylbenzene	14.629	105	802278	1.710	ppbv	97
64) n-propylbenzene	15.523	120	38694m	0.341	ppbv	
72) 4-Ethyltoluene	15.799	105	249671	0.683	ppbv	97
73) 1,3,5-Trimethylbenzene	15.957	105	194268m	0.590	ppbv	
74) 1,2,4-Trimethylbenzene	16.722	105	544130	1.510	ppbv #	65

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

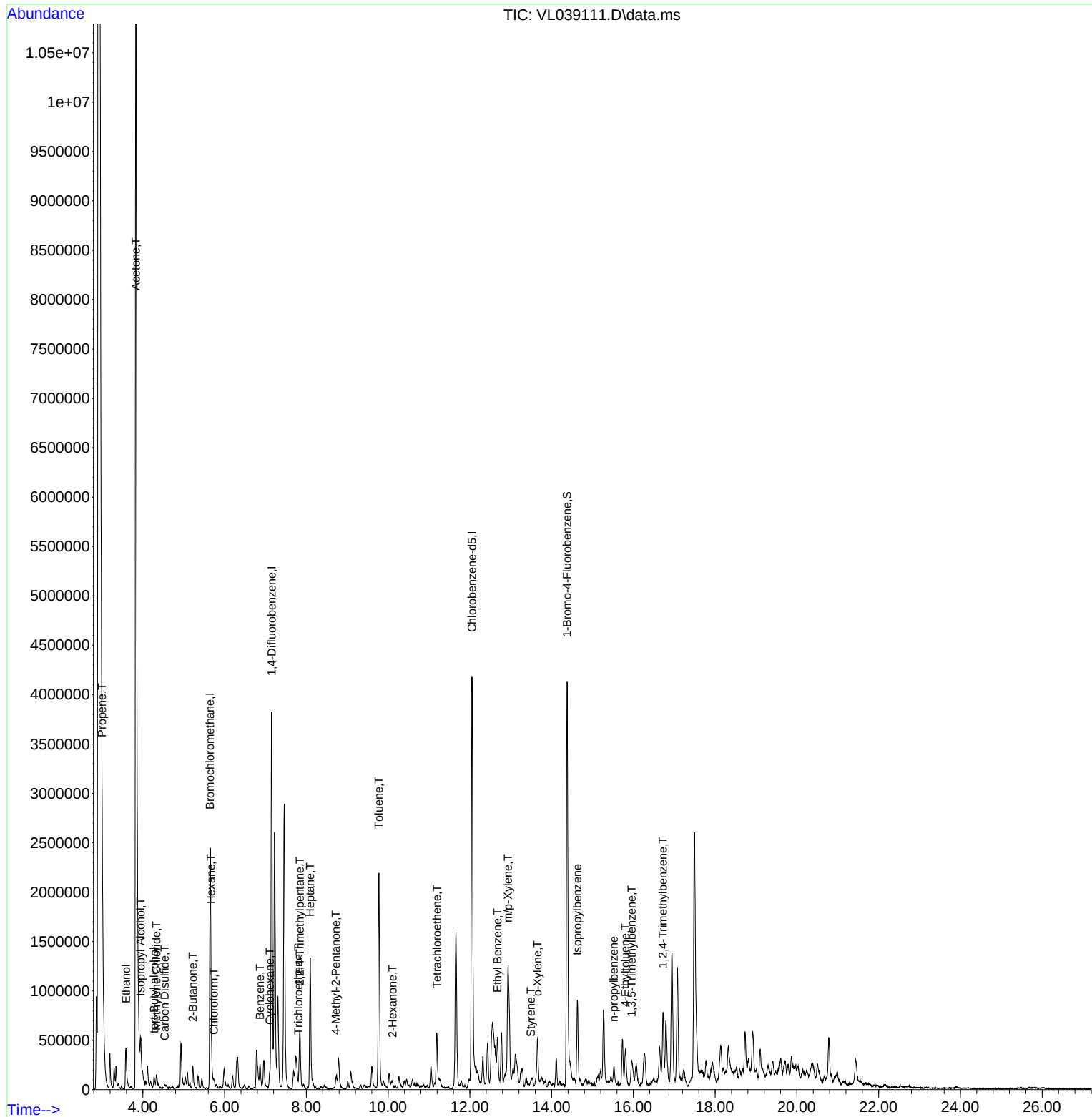
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052322\
Data File : VL039111.D
Acq On : 24 May 2022 9:11
Operator : SY/AP
Sample : N2991-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

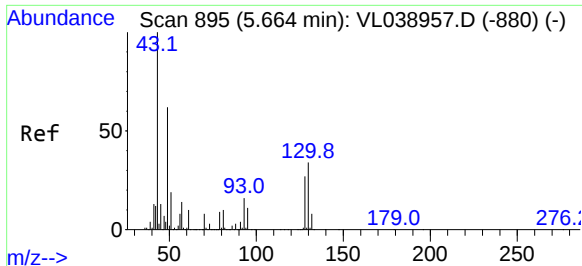
Instrument :
MSVOA_L
ClientSampleId :
SG-1

Quant Time: May 25 04:15:46 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

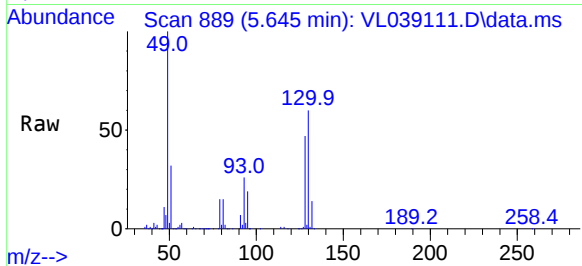
Reviewed By : Semsettin Yesilyurt 05/25/2022
Supervised By : Mahesh Dadoda 05/26/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.645 min Scan# 81
Delta R.T. -0.019 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

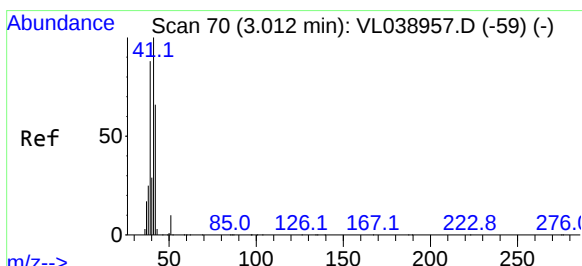
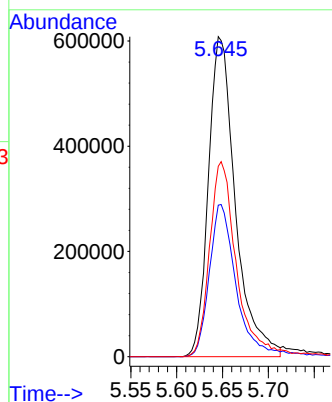
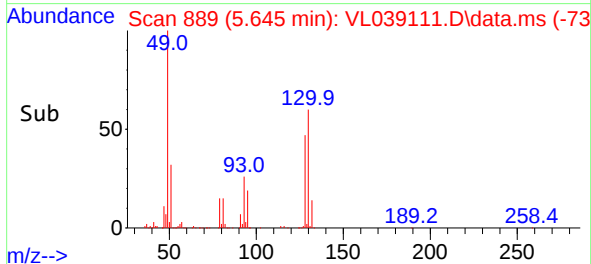
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 49 Resp: 124173
Ion Ratio Lower Upper
49 100
128 48.4 23.3 69.8
130 62.7 29.8 89.3

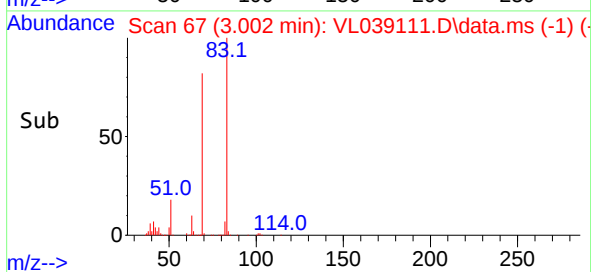
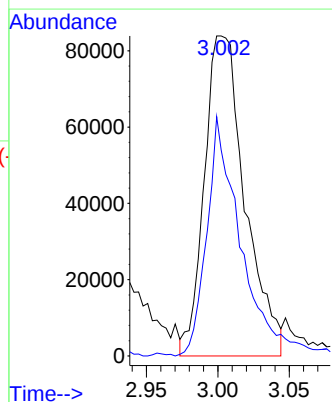
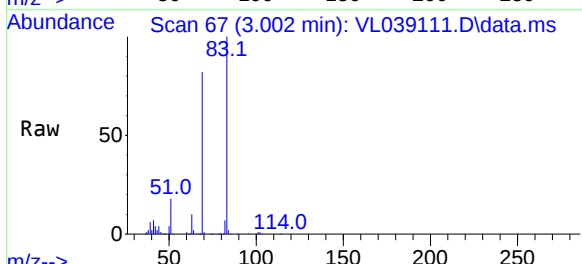
Manual Integrations
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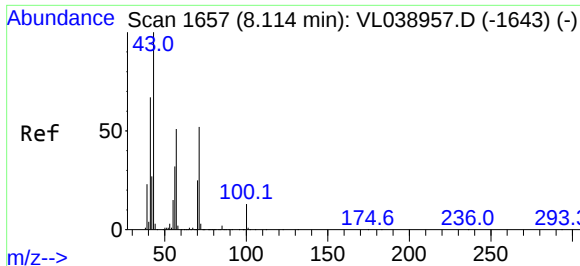
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#9
Propene
Concen: 2.473 ppbv m
RT: 3.002 min Scan# 67
Delta R.T. -0.009 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Tgt Ion: 41 Resp: 166427
Ion Ratio Lower Upper
41 100
42 63.2 58.3 87.5





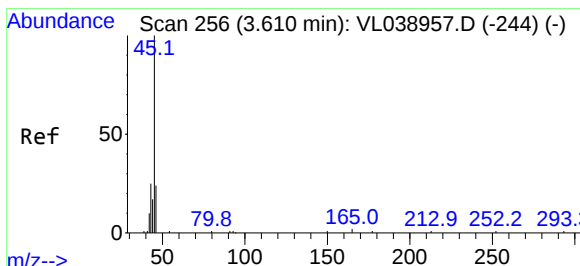
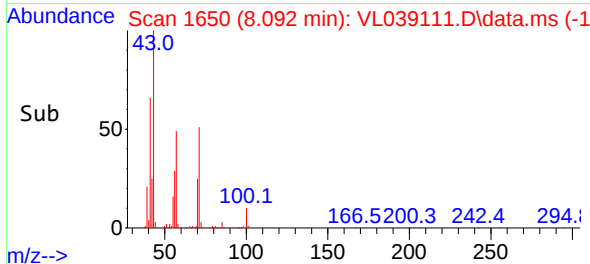
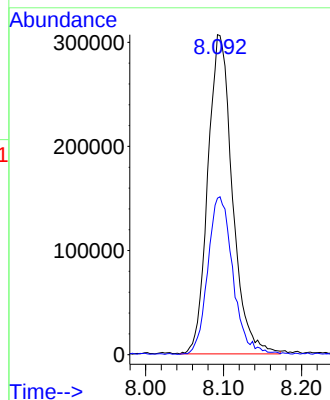
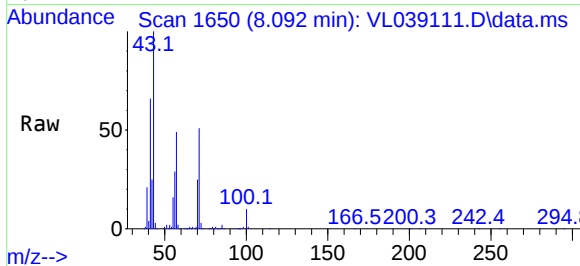
#10
Heptane
Concen: 4.070 ppbv
RT: 8.092 min Scan# 11
Delta R.T. -0.022 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 43 Resp: 671874
Ion Ratio Lower Upper
43 100
57 50.5 40.5 60.7

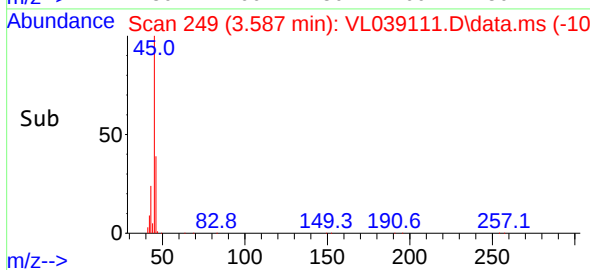
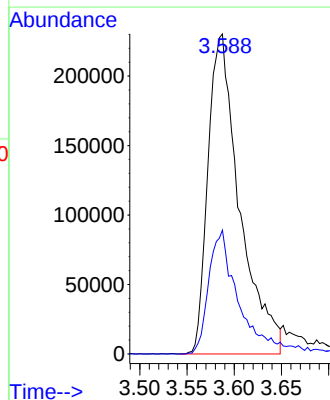
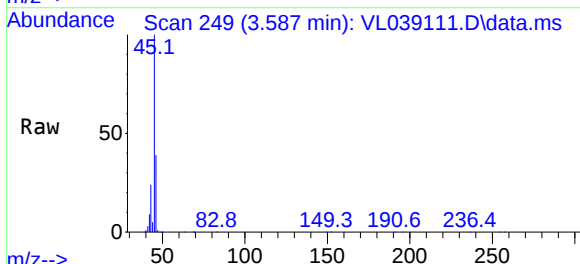
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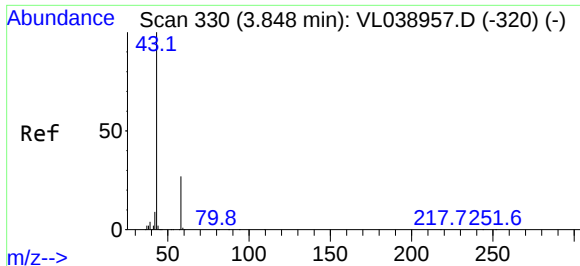
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#13
Ethanol
Concen: 112.438 ppbv
RT: 3.587 min Scan# 249
Delta R.T. -0.022 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

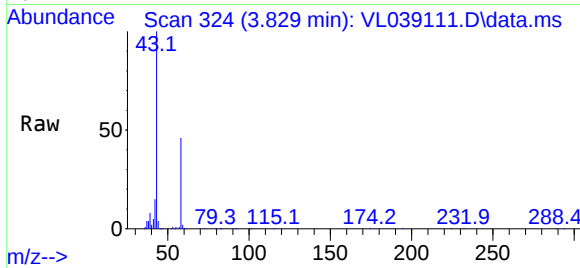
Tgt Ion: 45 Resp: 535419
Ion Ratio Lower Upper
45 100
46 38.8 18.0 72.2





#15
Acetone
Concen: 146.142 ppbv
RT: 3.829 min Scan# 311
Delta R.T. -0.019 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

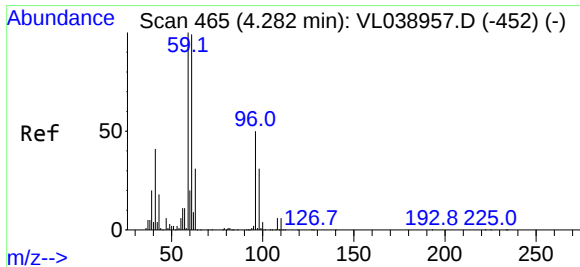
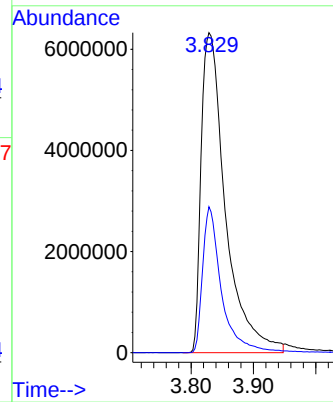
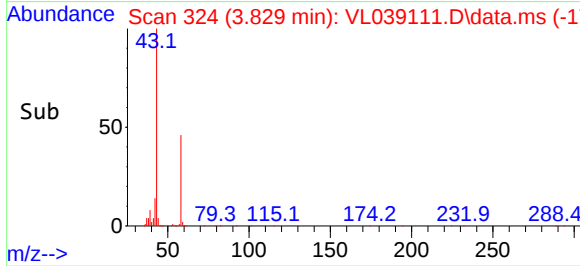
Instrument : MSVOA_L
ClientSampleId : SG-1



Tgt Ion: 43 Resp: 1711802
Ion Ratio Lower Upper
43 100
58 36.1 21.3 31.9

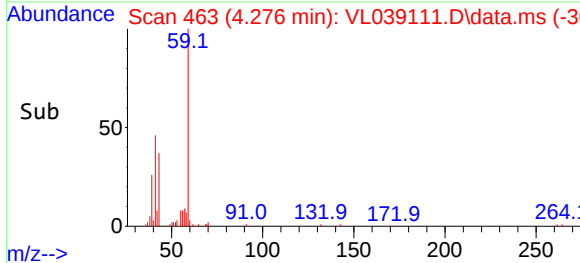
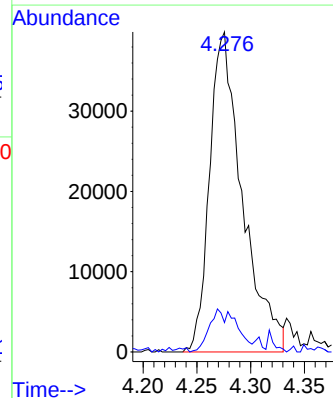
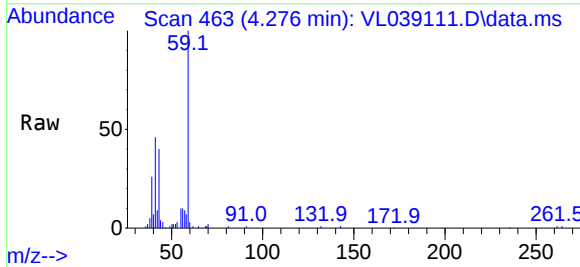
Manual Integrations
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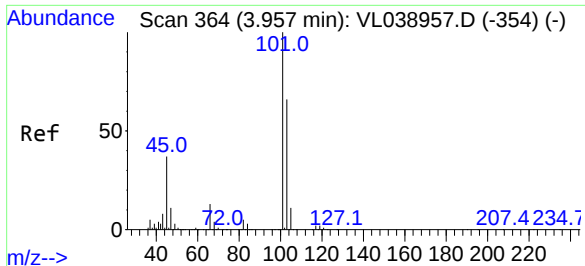
Reviewed By : Semsettin Yesilyurt 05/25/2022
Supervised By : Mahesh Dadoda 05/26/2022



#17
tert-Butyl alcohol
Concen: 0.940 ppbv
RT: 4.276 min Scan# 463
Delta R.T. -0.006 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Tgt Ion: 59 Resp: 84581
Ion Ratio Lower Upper
59 100
57 14.2 9.2 13.8





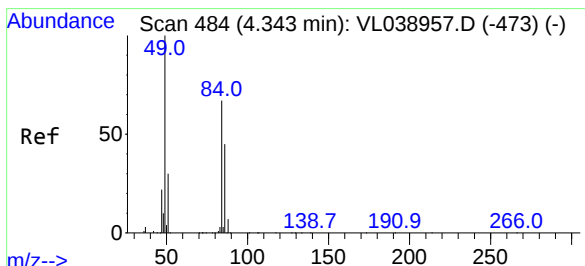
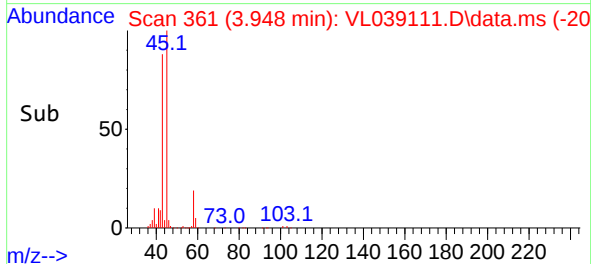
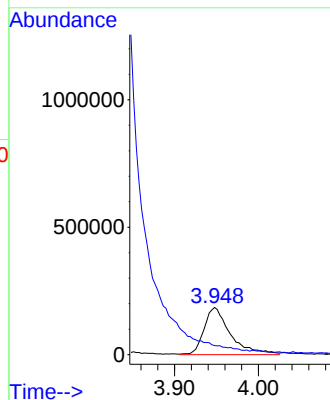
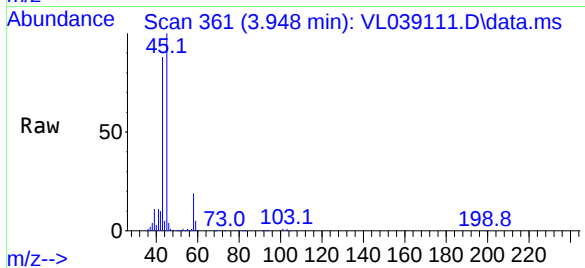
#19
Isopropyl Alcohol
Concen: 7.253 ppbv m
RT: 3.948 min Scan# 30
Delta R.T. -0.009 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 45 Resp: 403909
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2

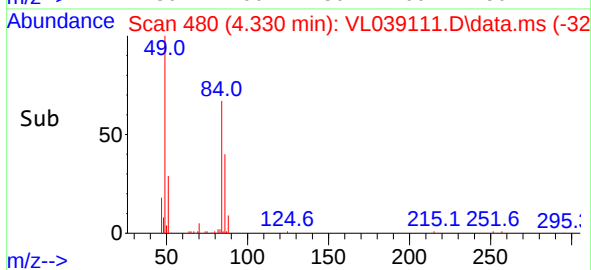
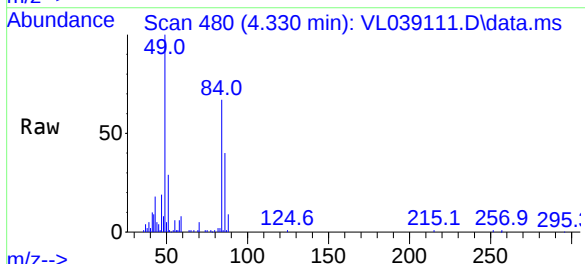
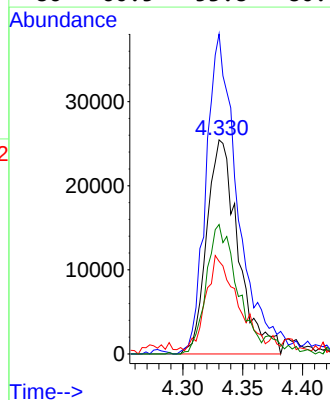
Manual Integrations
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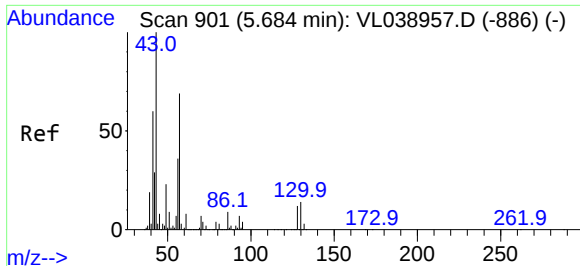
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#20
Methylene Chloride
Concen: 1.054 ppbv m
RT: 4.330 min Scan# 480
Delta R.T. -0.013 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

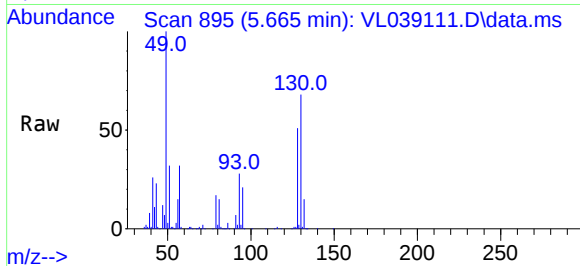
Tgt Ion: 84 Resp: 46527
Ion Ratio Lower Upper
84 100
49 149.4 119.9 179.9
51 43.2 35.7 53.5
86 60.5 53.8 80.6





#26
Hexane
Concen: 1.210 ppbv
RT: 5.665 min Scan# 895
Delta R.T. -0.019 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

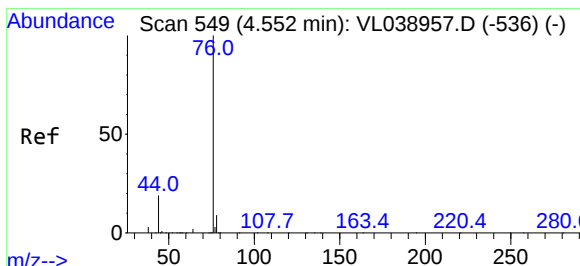
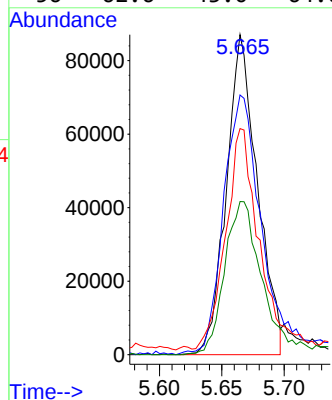
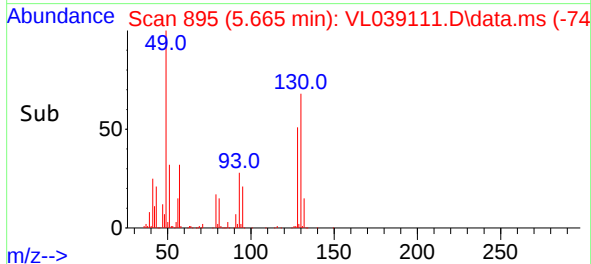
Instrument :
MSVOA_L
ClientSampleId :
SG-1



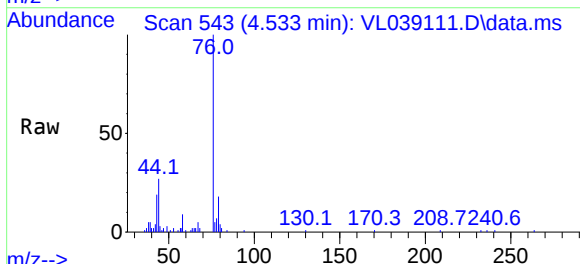
Tgt Ion: 57 Resp: 150683
Ion Ratio Lower Upper
57 100
41 100.3 75.2 112.8
43 74.7 190.8 286.2
56 62.6 43.0 64.6

Manual Integrations
APPROVED

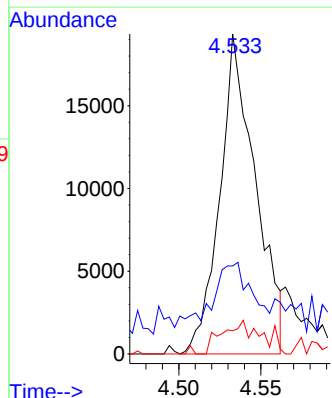
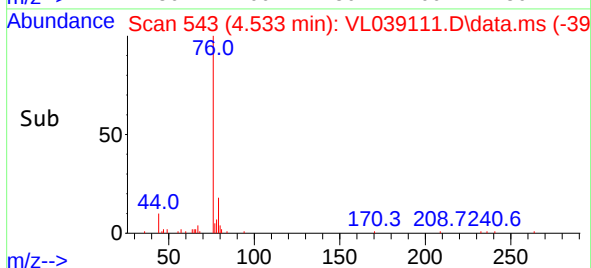
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

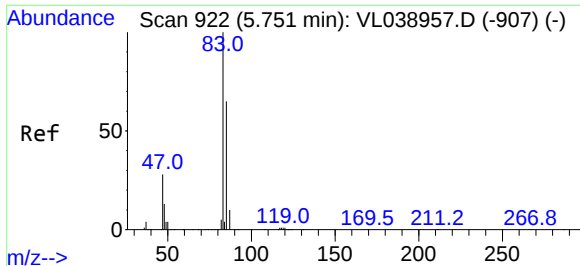


#27
Carbon Disulfide
Concen: 0.247 ppbv
RT: 4.533 min Scan# 543
Delta R.T. -0.019 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11



Tgt Ion: 76 Resp: 29220
Ion Ratio Lower Upper
76 100
44 36.8 15.3 22.9#
78 12.7 8.2 12.2#





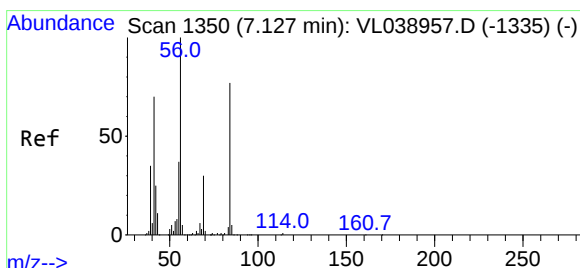
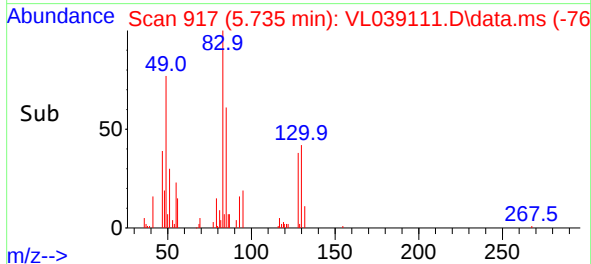
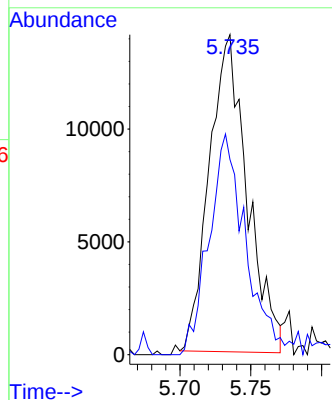
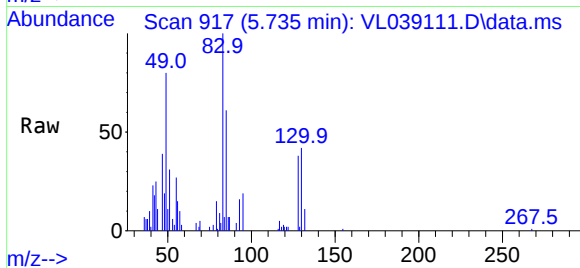
#29
Chloroform
Concen: 0.130 ppbv
RT: 5.735 min Scan# 917
Delta R.T. -0.016 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 83 Resp: 26294
Ion Ratio Lower Upper
83 100
85 61.7 51.8 77.6

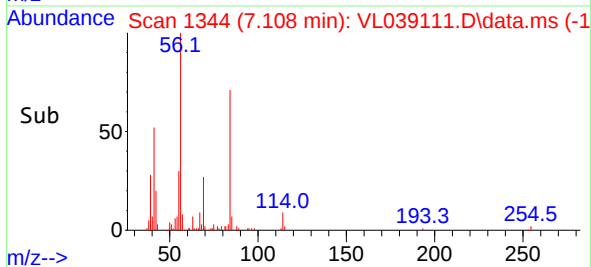
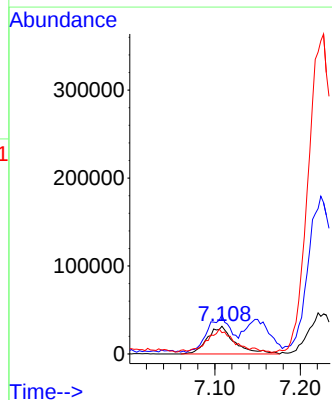
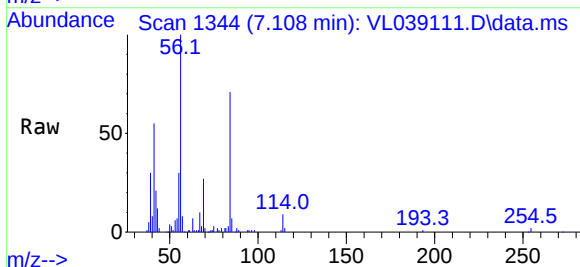
Manual Integrations
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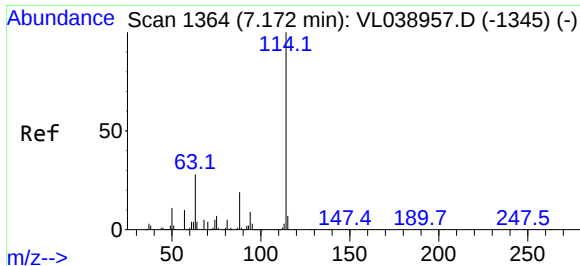
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#30
Cyclohexane
Concen: 0.665 ppbv m
RT: 7.108 min Scan# 1344
Delta R.T. -0.019 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

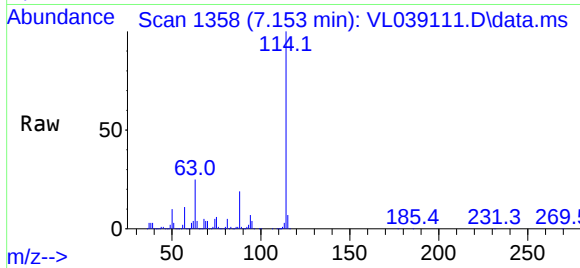
Tgt Ion: 84 Resp: 69396
Ion Ratio Lower Upper
84 100
56 110.3 115.3 172.9#
41 81.9 72.0 108.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.153 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

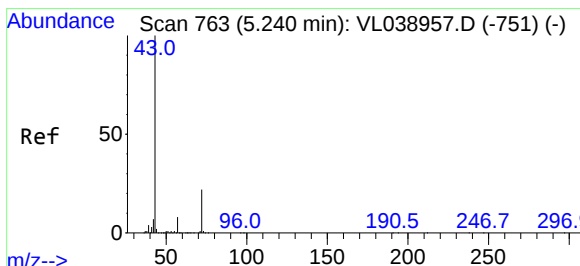
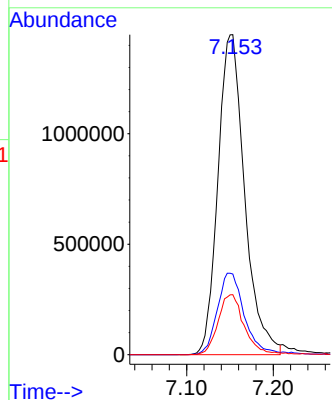
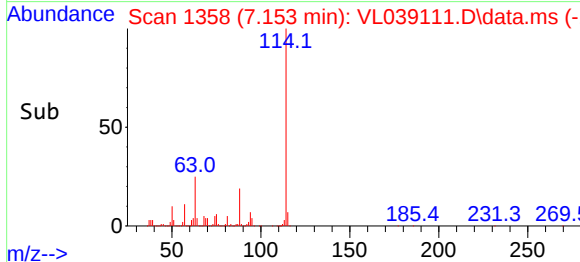
Instrument :
MSVOA_L
ClientSampleId :
SG-1



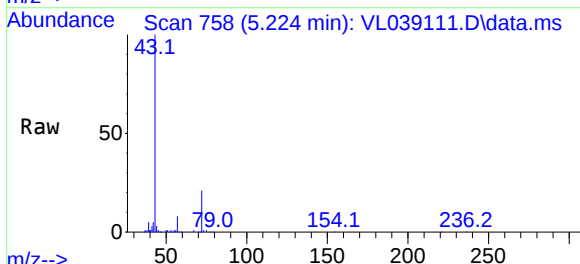
Tgt Ion:114 Resp: 3101892
Ion Ratio Lower Upper
114 100
63 26.3 22.6 33.8
88 18.7 15.4 23.0

Manual Integrations
APPROVED

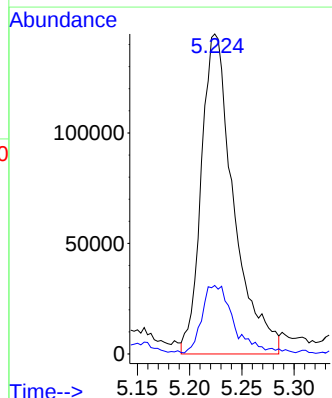
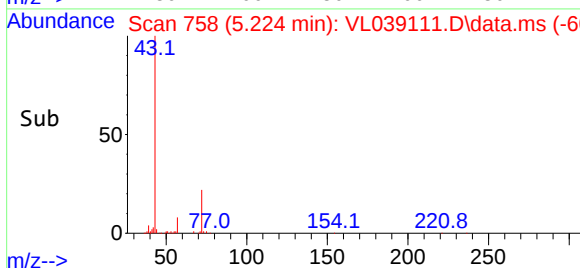
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

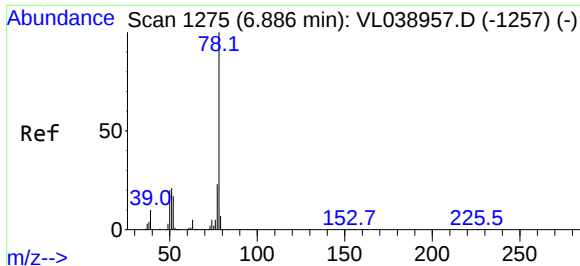


#34
2-Butanone
Concen: 1.969 ppbv m
RT: 5.224 min Scan# 758
Delta R.T. -0.016 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11



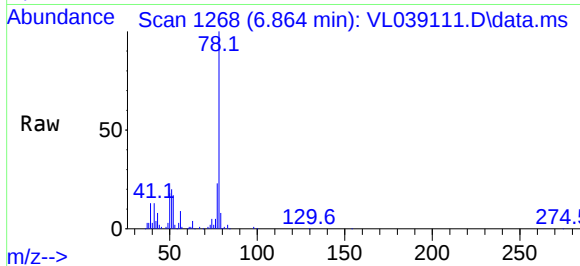
Tgt Ion: 43 Resp: 311600
Ion Ratio Lower Upper
43 100
72 20.5 17.8 26.6





#36
Benzene
Concen: 0.705 ppbv
RT: 6.864 min Scan# 11
Delta R.T. -0.022 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

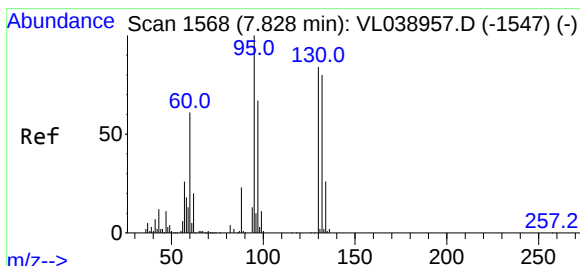
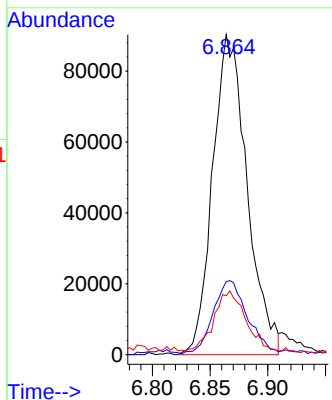
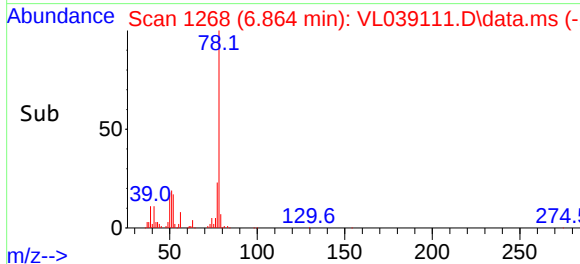
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 78 Resp: 187238
Ion Ratio Lower Upper
78 100
77 22.2 18.6 28.0
50 17.2 15.6 23.4

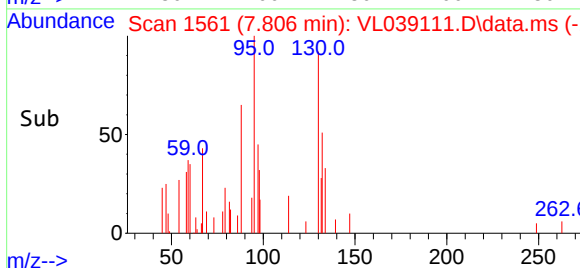
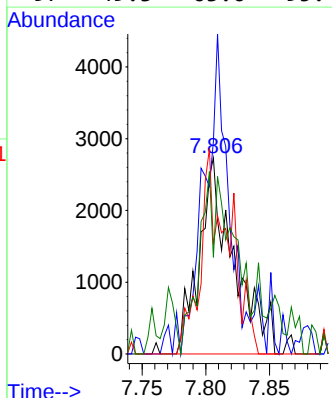
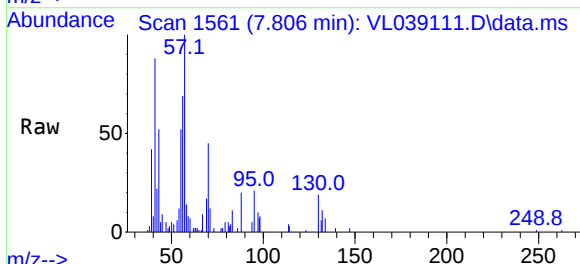
Manual Integrations
APPROVED

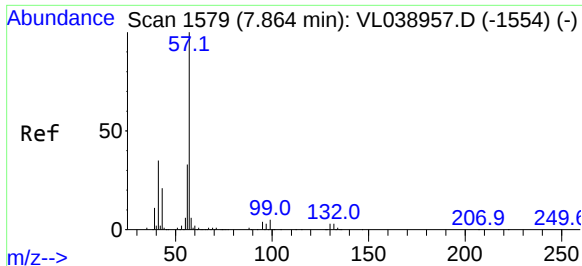
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#38
Trichloroethene
Concen: 0.044 ppbv m
RT: 7.806 min Scan# 1561
Delta R.T. -0.022 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

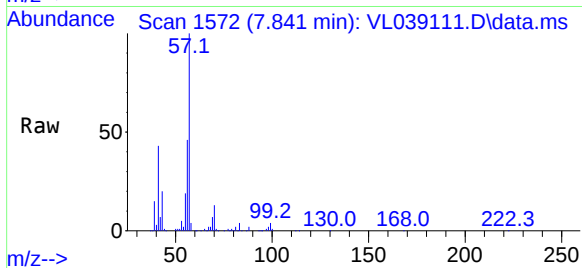
Tgt Ion:130 Resp: 5160
Ion Ratio Lower Upper
130 100
95 108.4 94.8 142.2
132 55.7 75.8 113.8#
97 49.3 63.6 95.4#





#44
2,2,4-Trimethylpentane
Concen: 0.923 ppbv
RT: 7.841 min Scan# 11
Delta R.T. -0.022 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

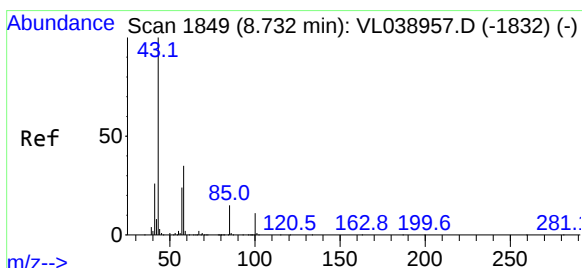
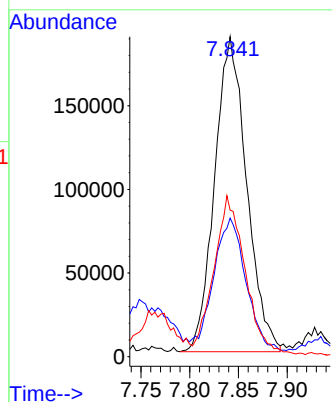
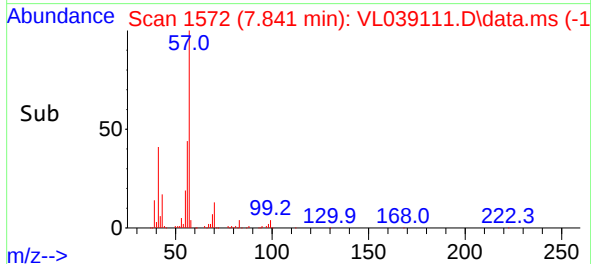
Instrument :
MSVOA_L
ClientSampleId :
SG-1



Tgt Ion: 57 Resp: 42989
Ion Ratio Lower Upper
57 100
41 45.8 26.3 39.5
56 51.1 24.6 37.0

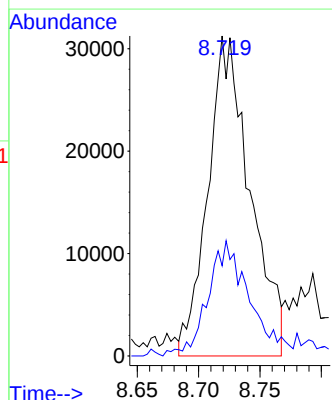
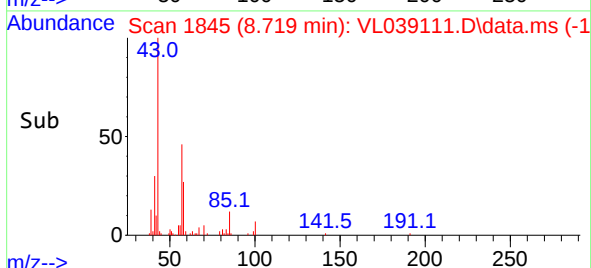
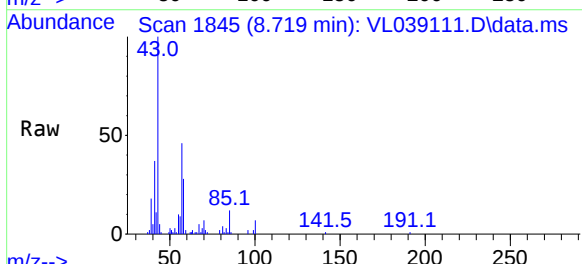
Manual Integrations
APPROVED

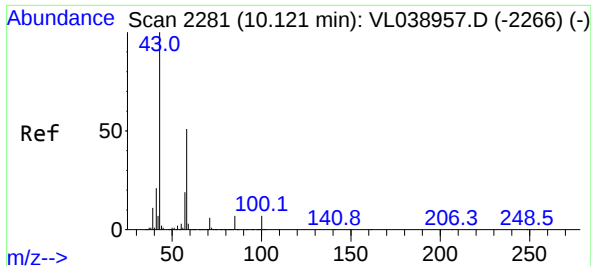
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#50
4-Methyl-2-Pentanone
Concen: 0.270 ppbv m
RT: 8.719 min Scan# 1845
Delta R.T. -0.013 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Tgt Ion: 43 Resp: 74798
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6





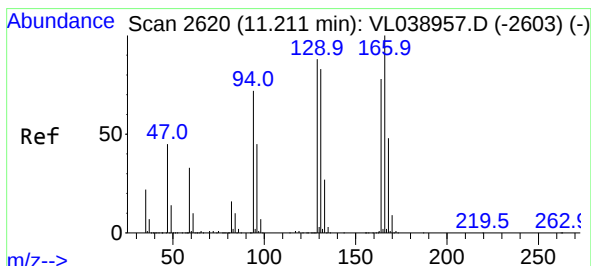
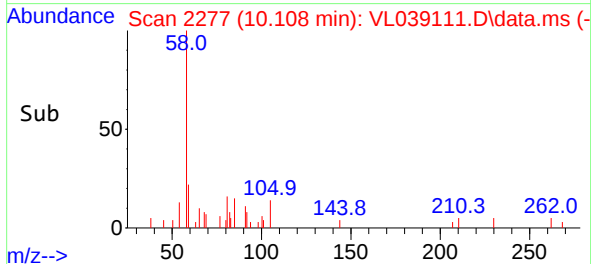
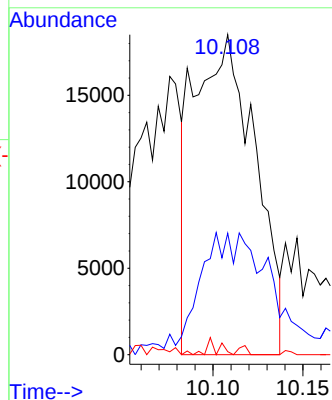
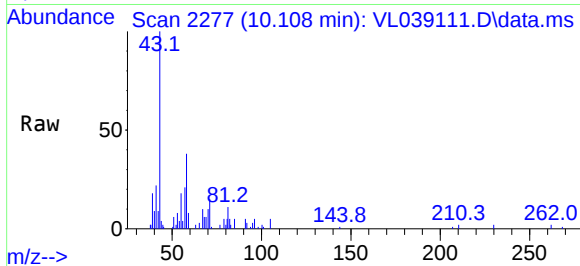
#51
2-Hexanone
Concen: 0.216 ppbv m
RT: 10.108 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 43 Resp: 43839
Ion Ratio Lower Upper
43 100
58 0.0 39.3 58.9
98 0.0 0.2 0.2

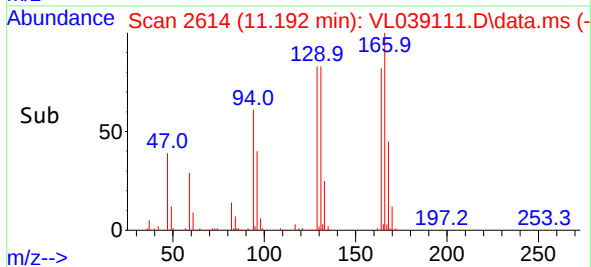
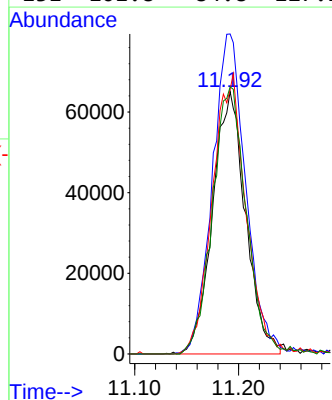
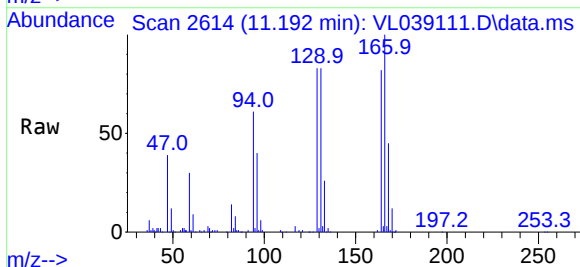
Manual Integrations
APPROVED

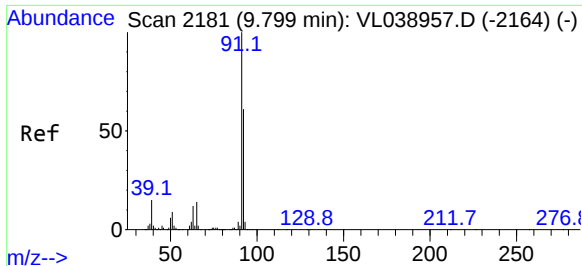
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#52
Tetrachloroethene
Concen: 1.507 ppbv
RT: 11.192 min Scan# 2614
Delta R.T. -0.019 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

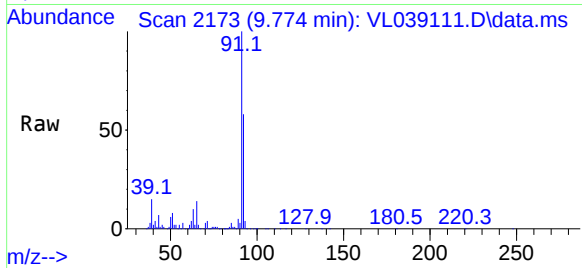
Tgt Ion:164 Resp: 142964
Ion Ratio Lower Upper
164 100
166 121.6 102.5 153.7
129 100.3 90.1 135.1
131 101.8 84.8 127.2





#53
Toluene
Concen: 5.827 ppbv
RT: 9.774 min Scan# 2181
Delta R.T. -0.026 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

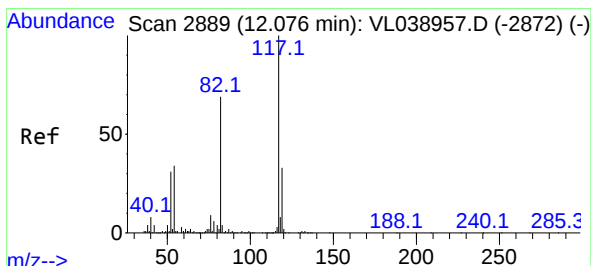
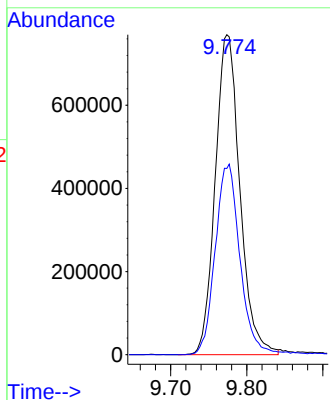
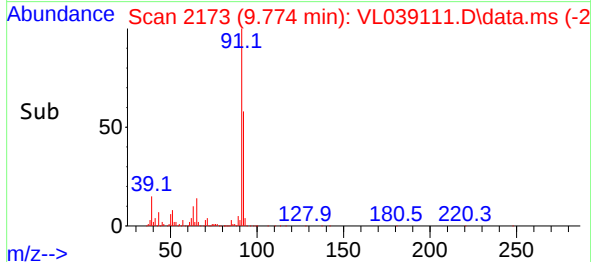
Instrument :
MSVOA_L
ClientSampleId :
SG-1



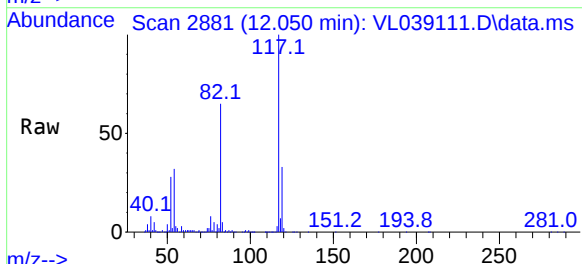
Tgt Ion: 91 Resp: 173374
Ion Ratio Lower Upper
91 100
92 60.8 48.2 72.2

Manual Integrations
APPROVED

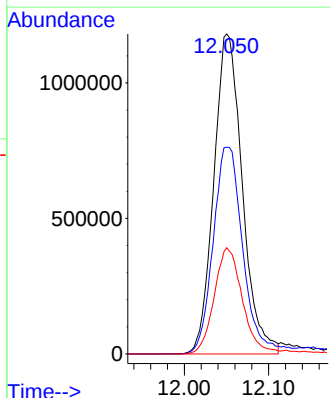
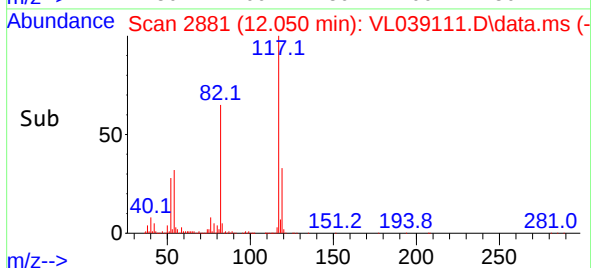
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

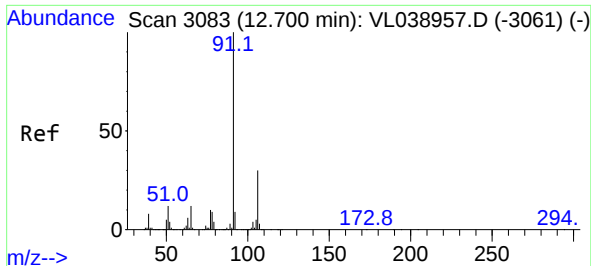


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.050 min Scan# 2881
Delta R.T. -0.026 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11



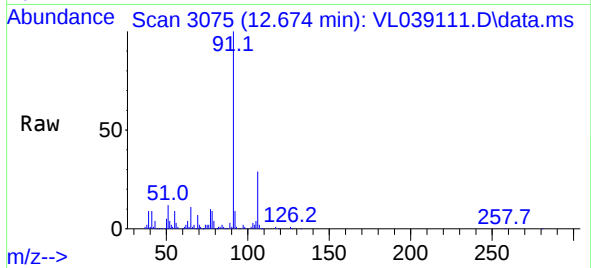
Tgt Ion:117 Resp: 2774048
Ion Ratio Lower Upper
117 100
82 67.9 57.0 85.6
119 34.6 27.2 40.8





#58
Ethyl Benzene
Concen: 1.007 ppbv
RT: 12.674 min Scan# 3083
Delta R.T. -0.026 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

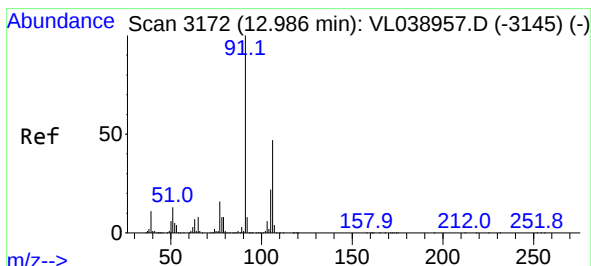
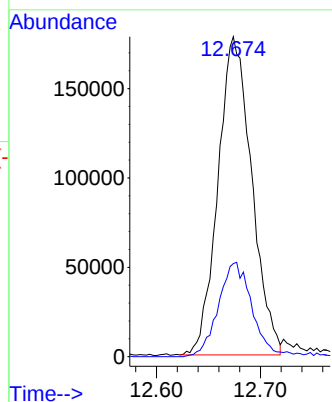
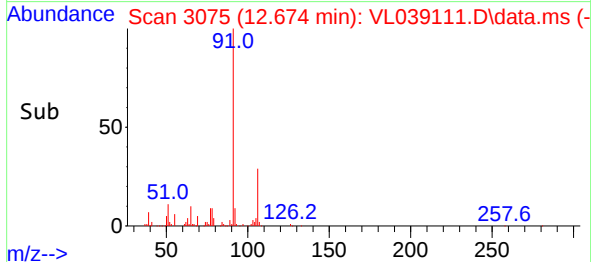
Instrument :
MSVOA_L
ClientSampleId :
SG-1



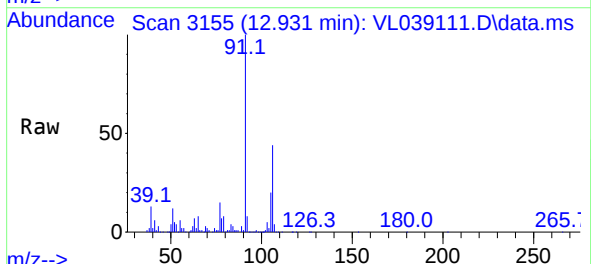
Tgt Ion: 91 Resp: 402060
Ion Ratio Lower Upper
91 100
106 29.3 24.2 36.4

Manual Integrations
APPROVED

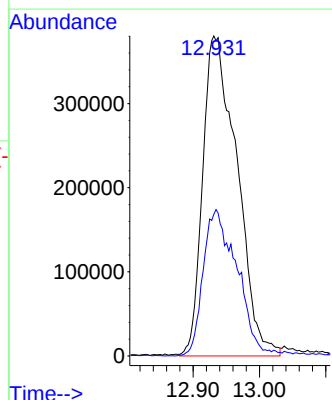
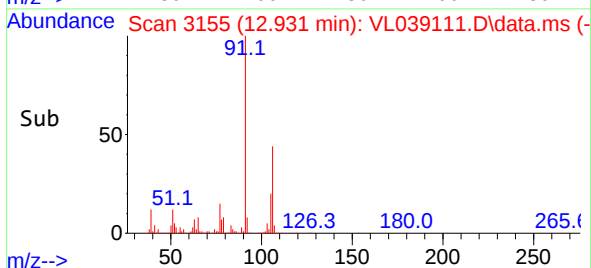
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

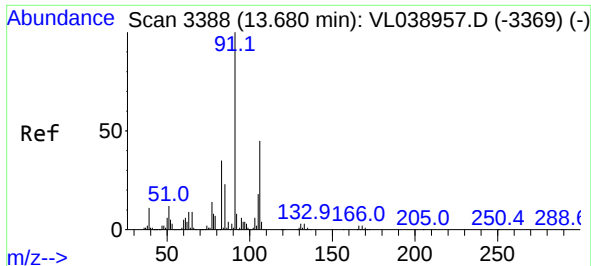


#59
m/p-Xylene
Concen: 4.000 ppbv m
RT: 12.931 min Scan# 3155
Delta R.T. -0.054 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11



Tgt Ion: 91 Resp: 1363369
Ion Ratio Lower Upper
91 100
106 45.7 34.6 52.0





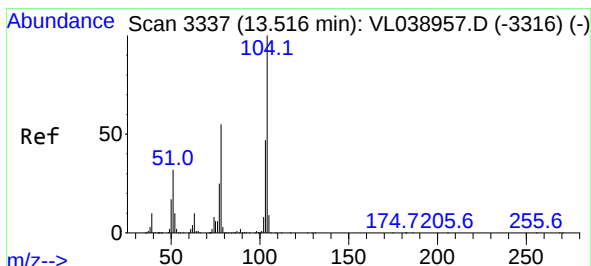
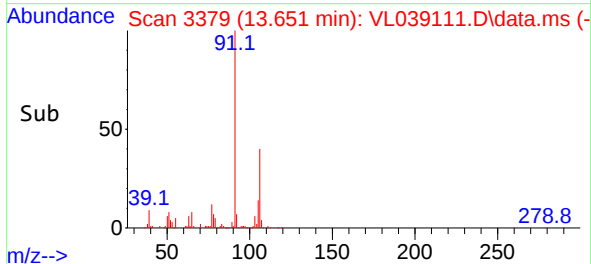
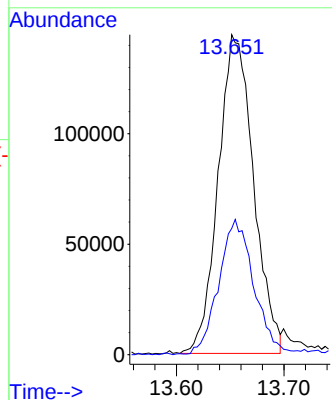
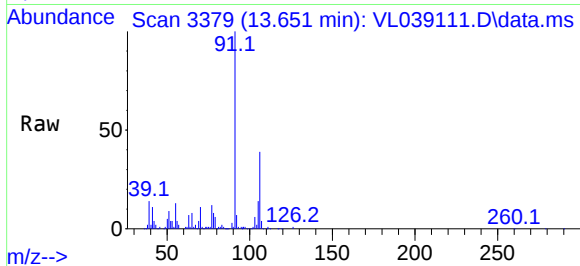
#60
o-Xylene
Concen: 1.026 ppbv
RT: 13.651 min Scan# 31
Delta R.T. -0.029 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion: 91 Resp: 32919
Ion Ratio Lower Upper
91 100
106 42.8 22.2 66.6

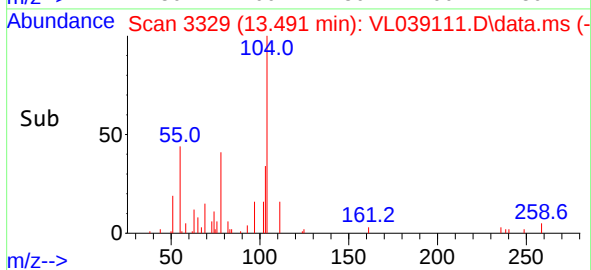
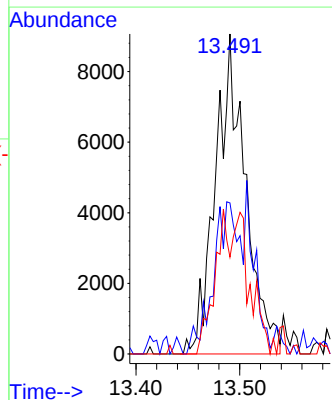
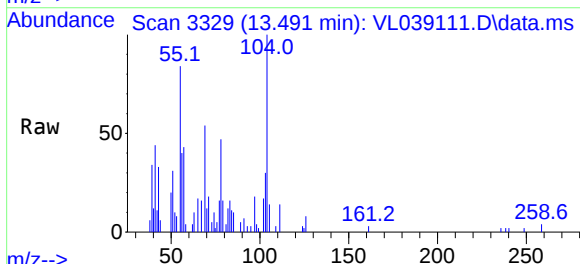
Manual Integrations
APPROVED

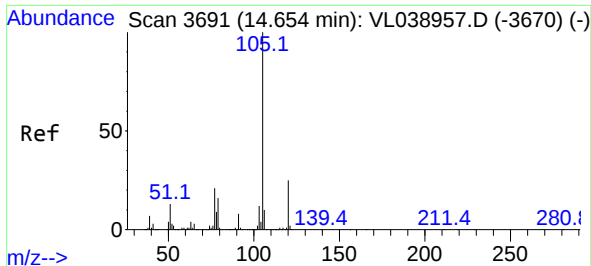
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#61
Styrene
Concen: 0.106 ppbv m
RT: 13.491 min Scan# 3329
Delta R.T. -0.026 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

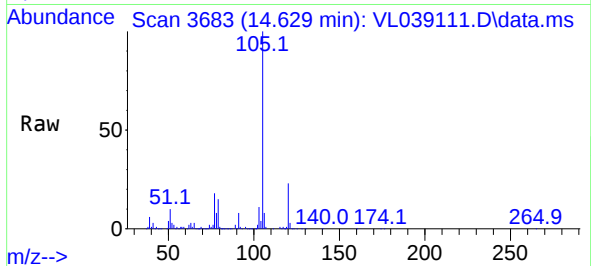
Tgt Ion:104 Resp: 18175
Ion Ratio Lower Upper
104 100
78 0.0 46.4 69.6#
103 0.0 39.3 58.9#





#62
Isopropylbenzene
Concen: 1.710 ppbv
RT: 14.629 min Scan# 30
Delta R.T. -0.025 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

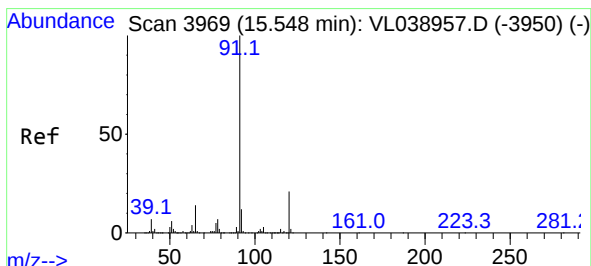
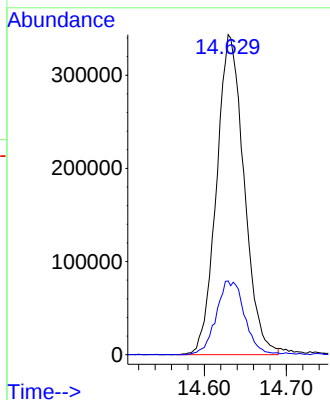
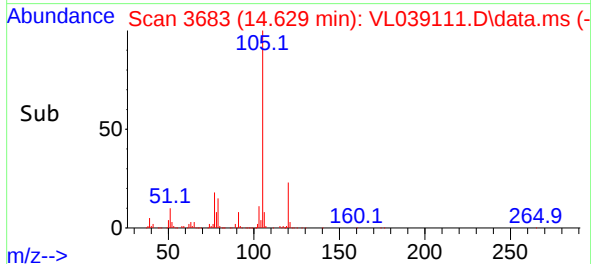
Instrument :
MSVOA_L
ClientSampleId :
SG-1



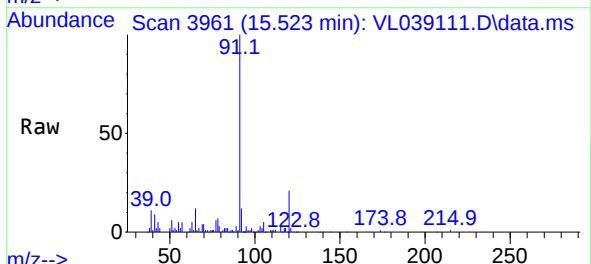
Tgt Ion:105 Resp: 802278
Ion Ratio Lower Upper
105 100
120 24.0 20.5 30.7

Manual Integrations
APPROVED

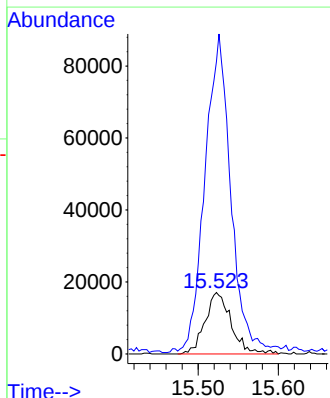
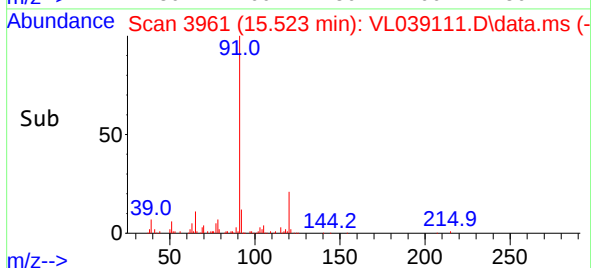
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

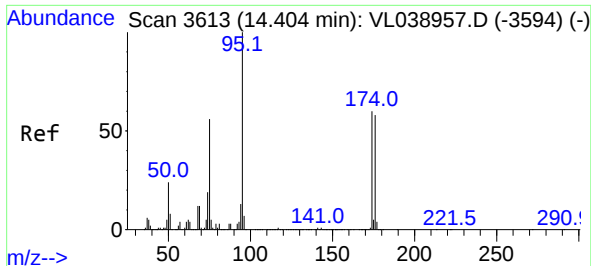


#64
n-propylbenzene
Concen: 0.341 ppbv m
RT: 15.523 min Scan# 3961
Delta R.T. -0.026 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11



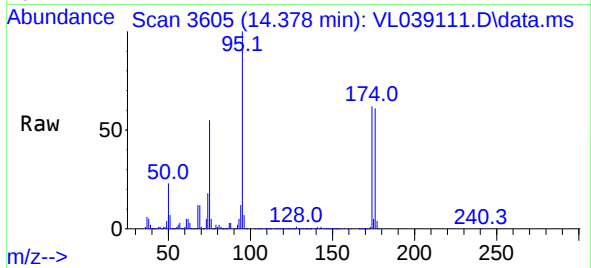
Tgt Ion:120 Resp: 38694
Ion Ratio Lower Upper
120 100
91 517.8 400.6 601.0





#68
1-Bromo-4-Fluorobenzene
Concen: 10.317 ppbv
RT: 14.378 min Scan# 30
Delta R.T. -0.026 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

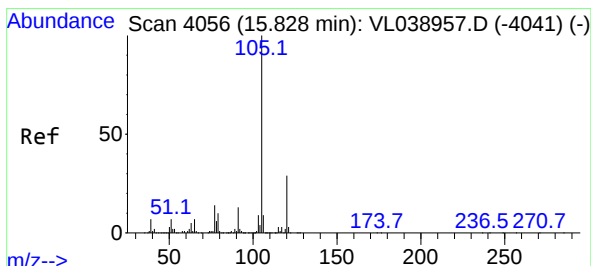
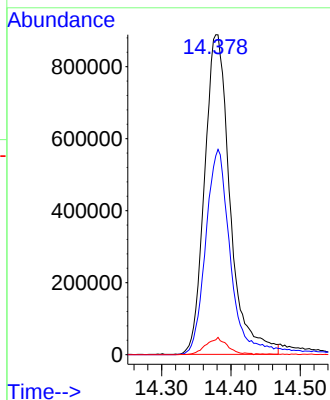
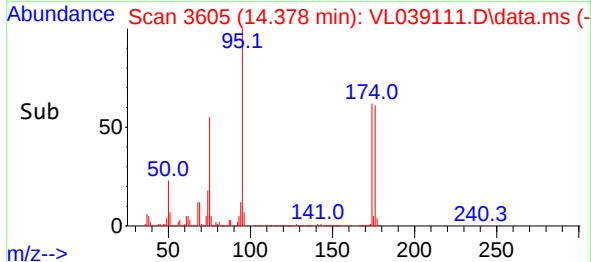
Instrument :
MSVOA_L
ClientSampleId :
SG-1



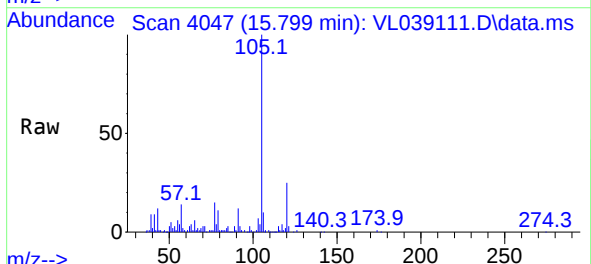
Tgt Ion: 95 Resp: 226644
Ion Ratio Lower Upper
95 100
174 64.9 50.8 76.2
175 4.6 3.8 5.6

Manual Integrations
APPROVED

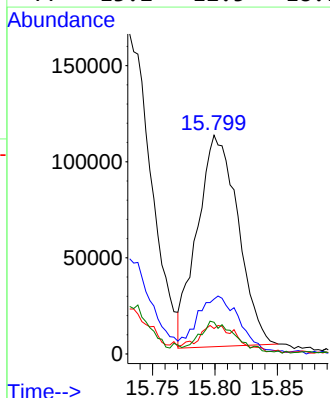
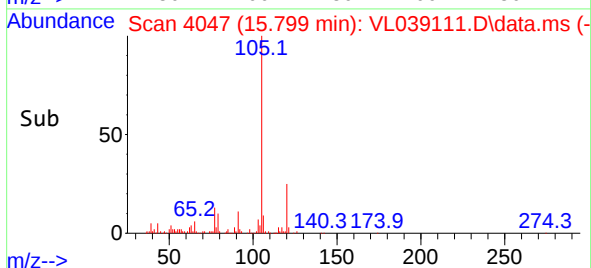
Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022

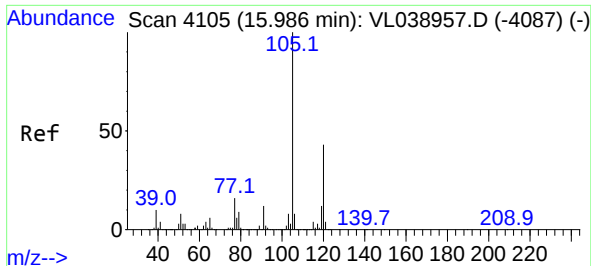


#72
4-Ethyltoluene
Concen: 0.683 ppbv
RT: 15.799 min Scan# 4047
Delta R.T. -0.029 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11



Tgt Ion:105 Resp: 249671
Ion Ratio Lower Upper
105 100
120 28.3 23.4 35.0
91 12.3 10.6 16.0
77 13.2 12.5 18.7





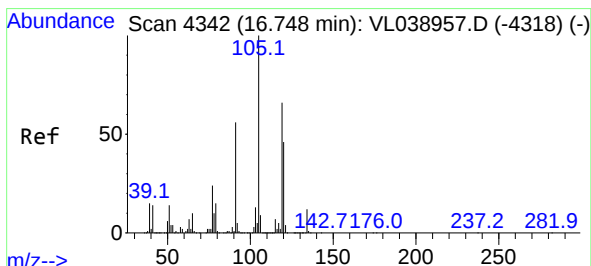
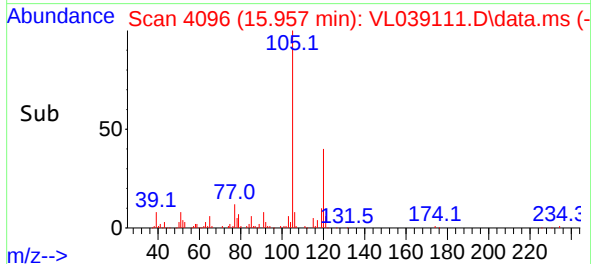
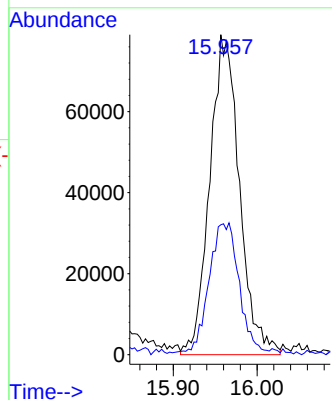
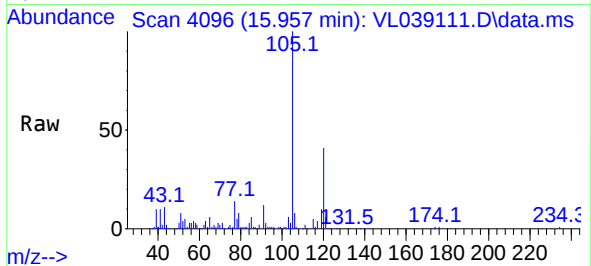
#73
1,3,5-Trimethylbenzene
Concen: 0.590 ppbv m
RT: 15.957 min Scan# 4096
Delta R.T. -0.029 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Instrument :
MSVOA_L
ClientSampleId :
SG-1

Tgt Ion:105 Resp: 194268
Ion Ratio Lower Upper
105 100
120 40.6 34.4 51.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/25/2022
Supervised By :Mahesh Dadoda 05/26/2022



#74
1,2,4-Trimethylbenzene
Concen: 1.510 ppbv
RT: 16.722 min Scan# 4334
Delta R.T. -0.026 min
Lab File: VL039111.D
Acq: 24 May 2022 9:11

Tgt Ion:105 Resp: 544130
Ion Ratio Lower Upper
105 100
120 41.3 36.9 55.3
91 9.8 45.0 67.4#
77 14.1 19.2 28.8#

