

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071222\
 Data File : VL039448.D
 Acq On : 12 Jul 2022 14:31
 Operator : SY/AP
 Sample : N3614-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18E

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022
 Supervised By :Mahesh Dadoda 07/13/2022

Quant Time: Jul 13 01:34:13 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 13 11:28:44 2022

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.684	49	1256212	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.192	114	3414002	10.000	ppbv	0.04
55) Chlorobenzene-d5	12.105	117	3041849	10.000	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.433 95 2391494 10.598 ppbv 0.04
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.063	85	108385	0.598	ppbv	90
3) Chlorodifluoromethane	2.980	51	186613	1.171	ppbv #	68
4) Chloromethane	3.153	50	52069	0.597	ppbv #	84
9) Propene	3.034	41	146507m	2.036	ppbv	
10) Heptane	8.143	43	32189m	0.191	ppbv	
11) Trichlorofluoromethane	3.967	101	39883	0.198	ppbv	93
13) Ethanol	3.642	45	29591747	7086.538	ppbv	88
15) Acetone	3.861	43	3011577	20.264	ppbv	94
17) tert-Butyl alcohol	4.330	59	113427	0.899	ppbv	95
19) Isopropyl Alcohol	4.002	45	1372525m	17.314	ppbv	
20) Methylene Chloride	4.359	84	337089	5.690	ppbv	97
25) Ethyl Acetate	5.687	43	5059628	16.603	ppbv #	95
29) Chloroform	5.767	83	489684	2.293	ppbv	90
34) 2-Butanone	5.263	43	157584	0.917	ppbv	94
35) Carbon Tetrachloride	7.034	117	12785m	0.061	ppbv	
36) Benzene	6.909	78	61879	0.234	ppbv #	91
44) 2,2,4-Trimethylpentane	7.889	57	56710	0.127	ppbv #	78
53) Toluene	9.828	91	151609	0.497	ppbv	97
59) m/p-Xylene	12.986	91	141313m	0.408	ppbv	
60) o-Xylene	13.706	91	55578m	0.169	ppbv	
69) p-Isopropyltoluene	17.667	119	112061	0.212	ppbv #	90

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

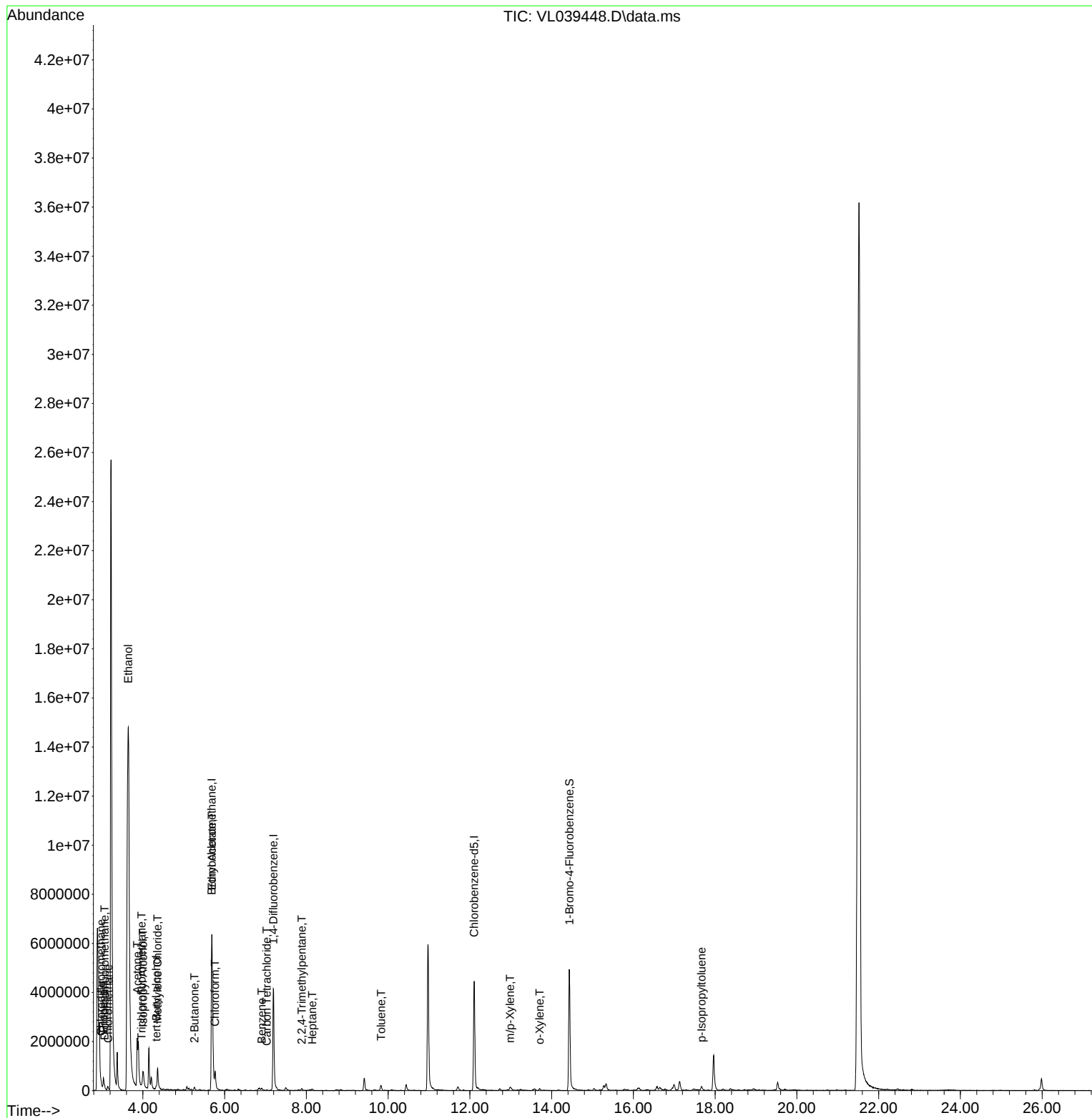
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Data File : VL039448.D
Acq On : 12 Jul 2022 14:31
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

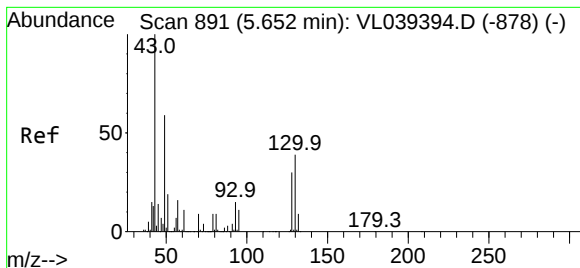
Instrument :
MSVOA_L
ClientSampleId :
IA-18E

Quant Time: Jul 13 01:34:13 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul
QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

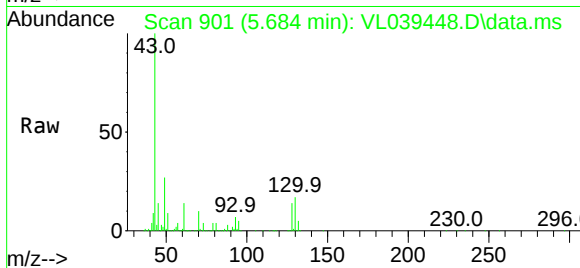
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.684 min Scan# 90
Delta R.T. 0.032 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

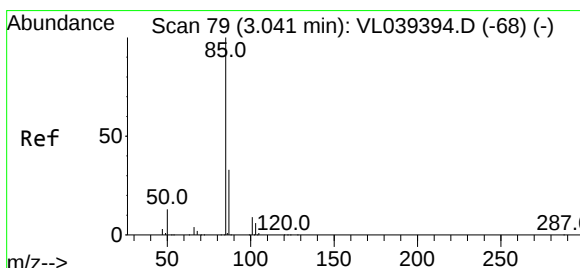
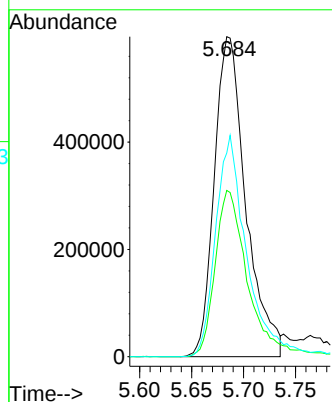
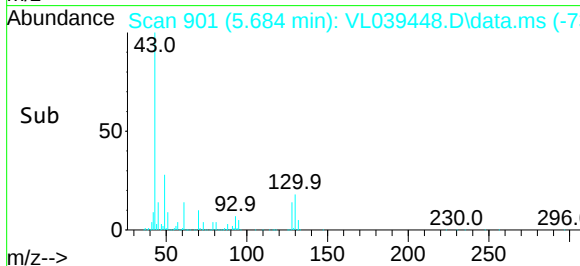
Instrument :
MSVOA_L
ClientSampleId :
IA-18E



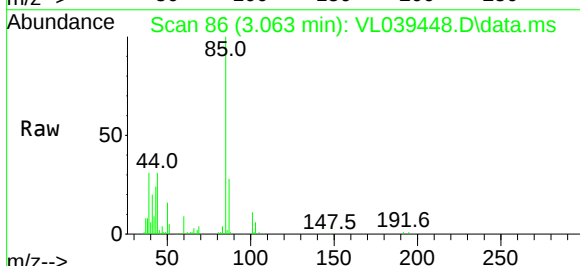
Tgt Ion: 49 Resp: 125621
Ion Ratio Lower Upper
49 100
128 54.8 26.7 80.0
130 70.1 34.3 102.8

Manual Integrations
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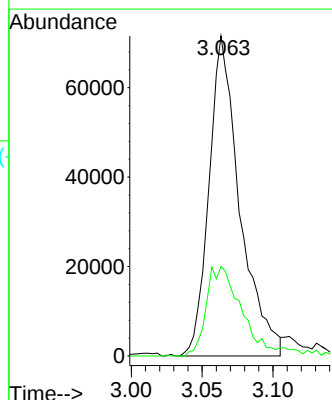
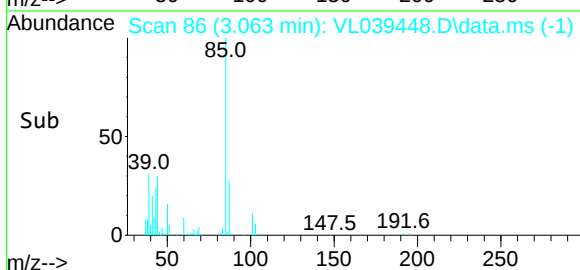
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

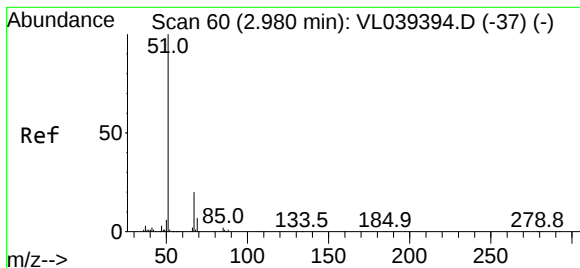


#2
Dichlorodifluoromethane
Concen: 0.598 ppbv
RT: 3.063 min Scan# 86
Delta R.T. 0.022 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31



Tgt Ion: 85 Resp: 108385
Ion Ratio Lower Upper
85 100
87 27.9 26.7 40.1





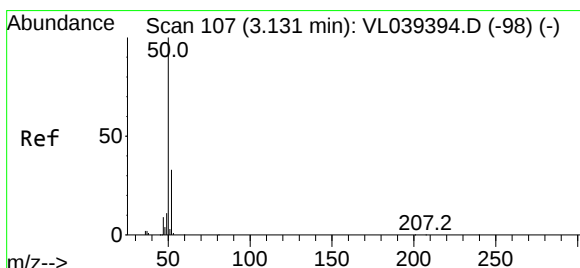
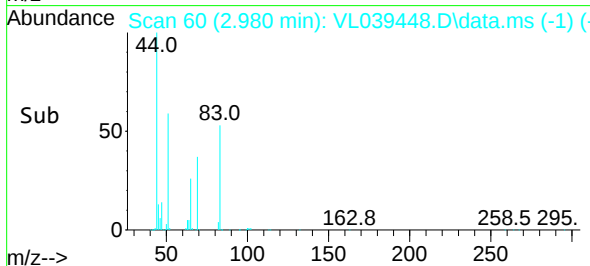
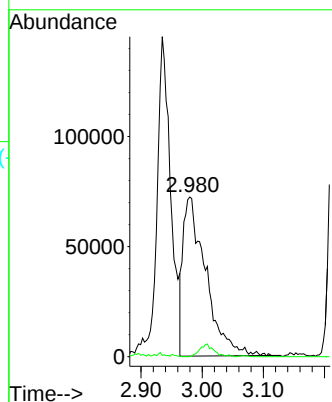
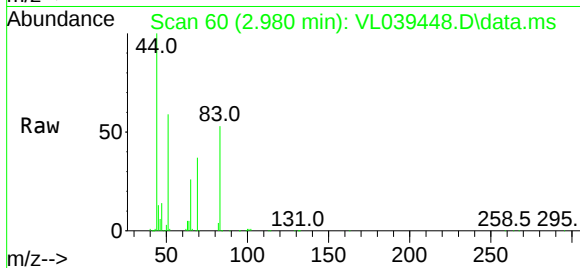
#3
Chlorodifluoromethane
Concen: 1.171 ppbv
RT: 2.980 min Scan# 60
Delta R.T. -0.000 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

Instrument :
MSVOA_L
ClientSampleId :
IA-18E

Tgt Ion: 51 Resp: 186611
Ion Ratio Lower Upper
51 100
67 5.2 15.7 23.5

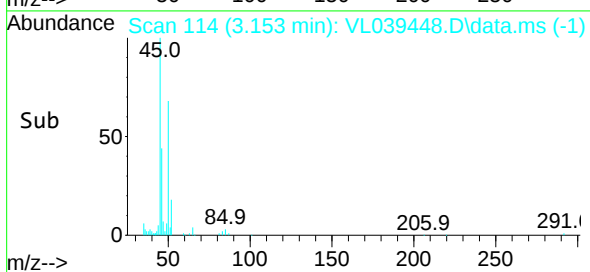
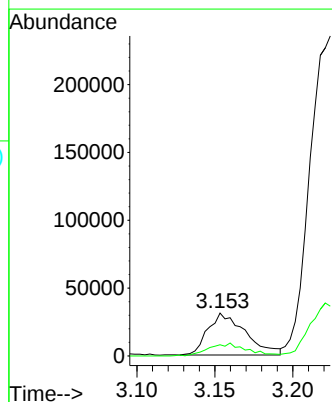
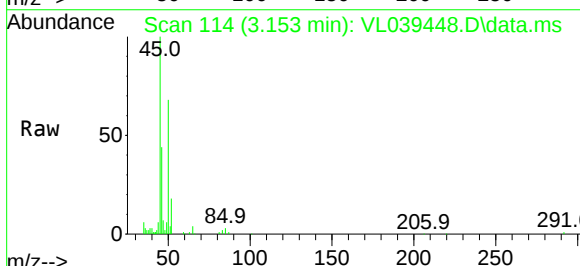
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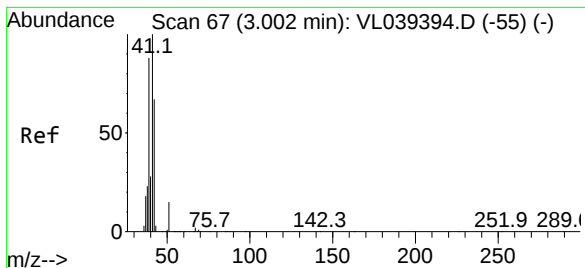
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#4
Chloromethane
Concen: 0.597 ppbv
RT: 3.153 min Scan# 114
Delta R.T. 0.022 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

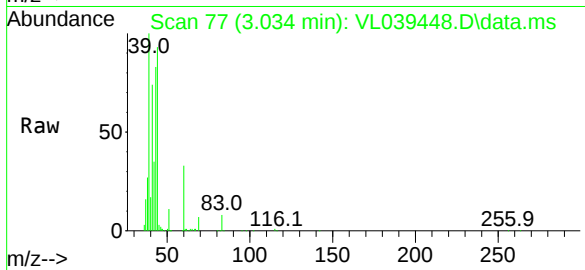
Tgt Ion: 50 Resp: 52069
Ion Ratio Lower Upper
50 100
52 24.3 26.5 39.7





#9
 Propene
 Concen: 2.036 ppbv m
 RT: 3.034 min Scan# 71
 Delta R.T. 0.032 min
 Lab File: VL039448.D
 Acq: 12 Jul 2022 14:31

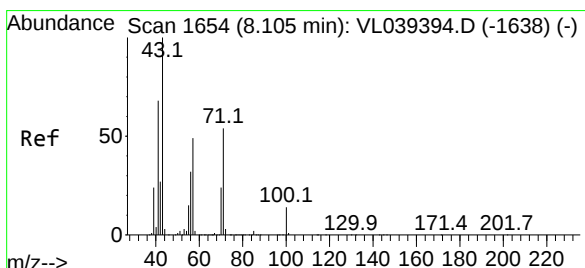
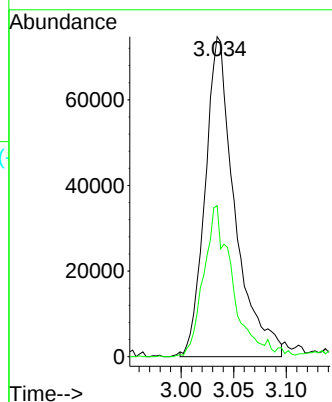
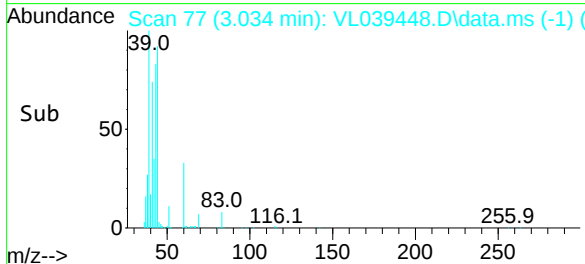
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18E



Tgt Ion: 41 Resp: 14650
 Ion Ratio Lower Upper
 41 100
 42 6549.4 55.2 82.8

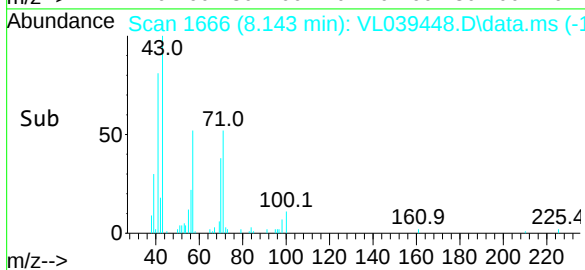
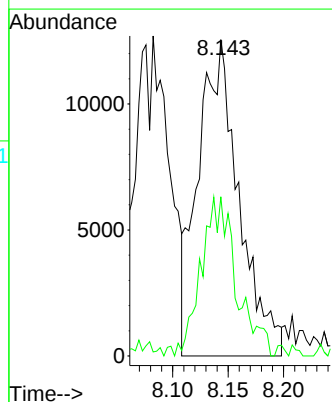
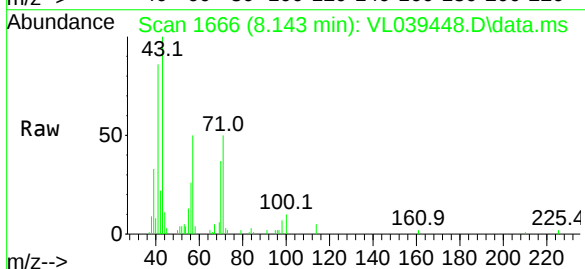
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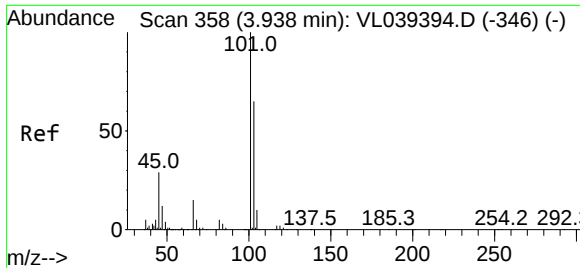
Reviewed By :Semsettin Yesilyurt 07/13/2022
 Supervised By :Mahesh Dadoda 07/13/2022



#10
 Heptane
 Concen: 0.191 ppbv m
 RT: 8.143 min Scan# 1666
 Delta R.T. 0.038 min
 Lab File: VL039448.D
 Acq: 12 Jul 2022 14:31

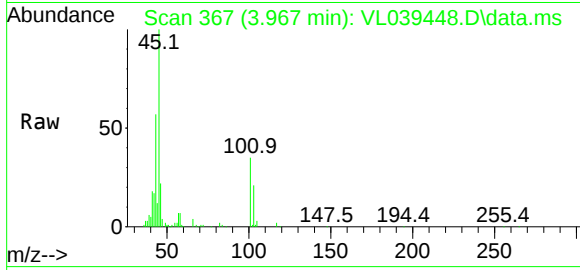
Tgt Ion: 43 Resp: 32189
 Ion Ratio Lower Upper
 43 100
 57 44.1 40.5 60.7





#11
Trichlorofluoromethane
Concen: 0.198 ppbv
RT: 3.967 min Scan# 30
Delta R.T. 0.029 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

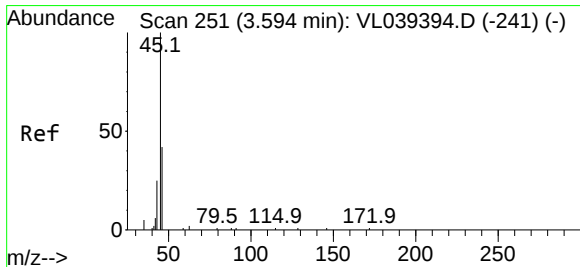
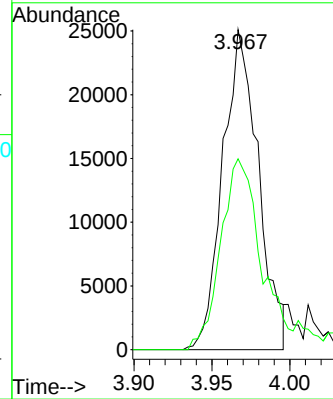
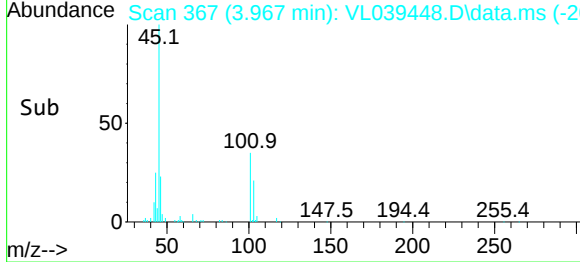
Instrument :
MSVOA_L
ClientSampleId :
IA-18E



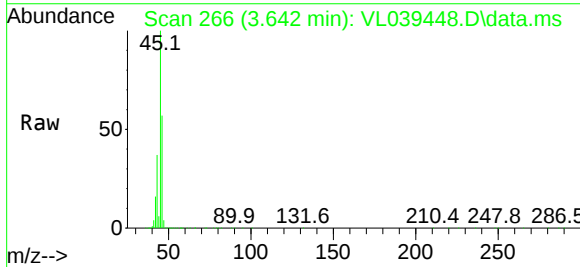
Tgt Ion:101 Resp: 3988
Ion Ratio Lower Upper
101 100
103 59.7 51.8 77.8

Manual Integrations
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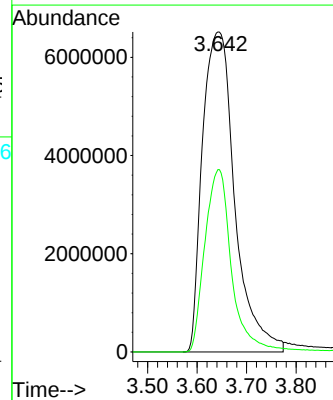
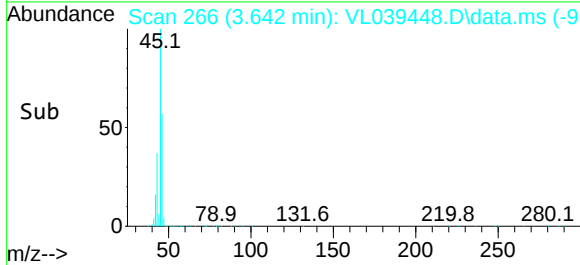
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

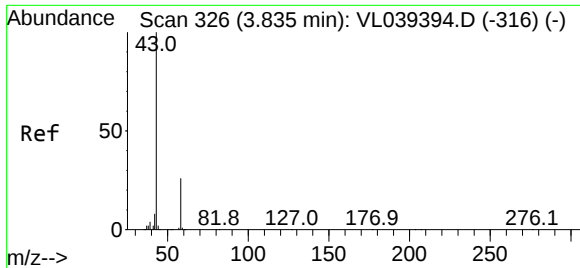


#13
Ethanol
Concen: 7086.538 ppbv
RT: 3.642 min Scan# 266
Delta R.T. 0.048 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31



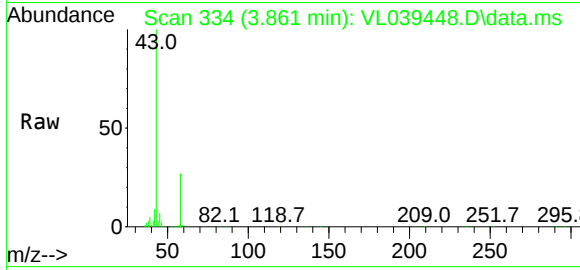
Tgt Ion: 45 Resp:29591747
Ion Ratio Lower Upper
45 100
46 47.9 22.8 91.2





#15
Acetone
Concen: 20.264 ppbv
RT: 3.861 min Scan# 31
Delta R.T. 0.026 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

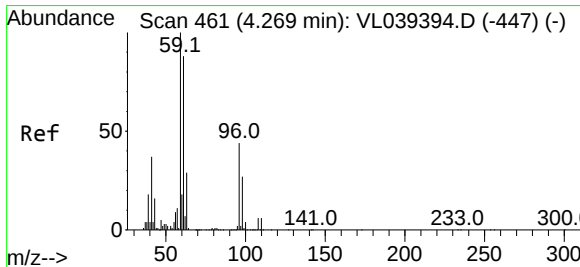
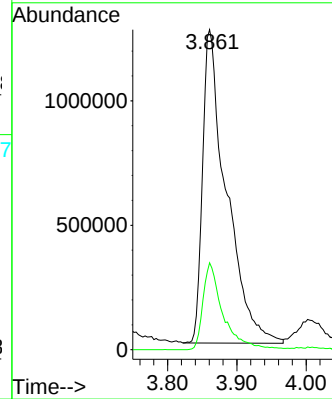
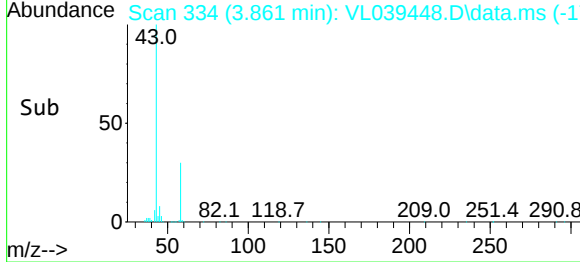
Instrument :
MSVOA_L
ClientSampleId :
IA-18E



Tgt Ion: 43 Resp: 301157
Ion Ratio Lower Upper
43 100
58 23.3 21.0 31.6

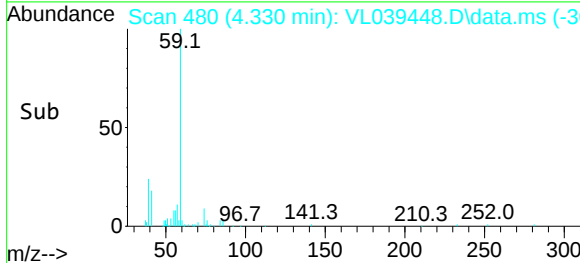
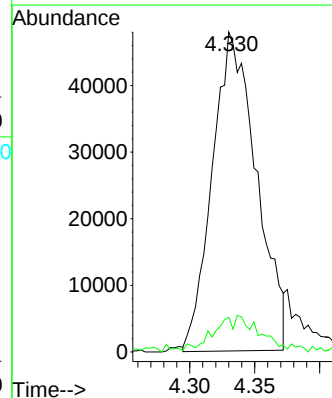
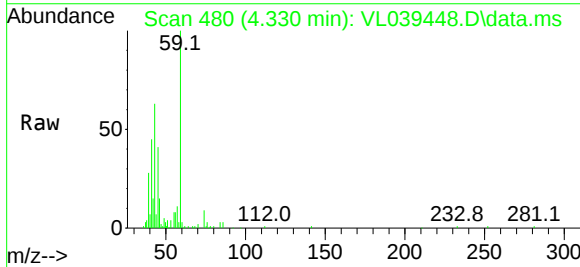
Manual Integrations
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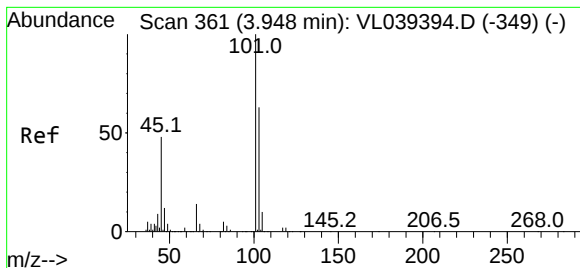
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#17
tert-Butyl alcohol
Concen: 0.899 ppbv
RT: 4.330 min Scan# 480
Delta R.T. 0.061 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

Tgt Ion: 59 Resp: 113427
Ion Ratio Lower Upper
59 100
57 12.7 8.7 13.1





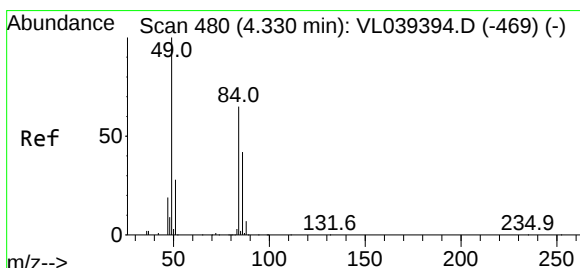
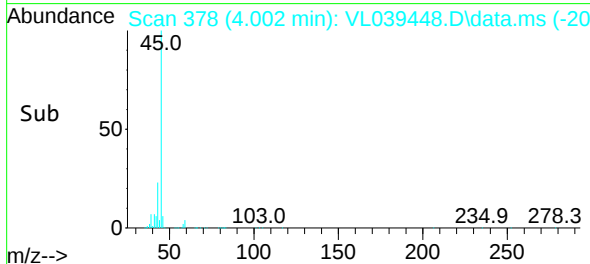
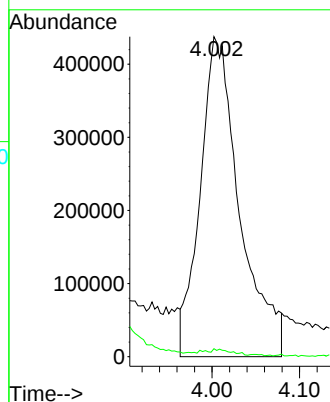
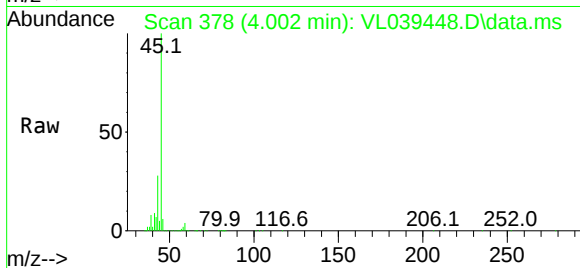
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Isopropyl Alcohol
Concen: 17.314 ppbv m
RT: 4.002 min Scan# 31
Delta R.T. 0.055 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

Instrument :
MSVOA_L
ClientSampleId :
IA-18E

Tgt Ion: 45 Resp: 137252
Ion Ratio Lower Upper
45 100
58 2.1 3.2 4.8

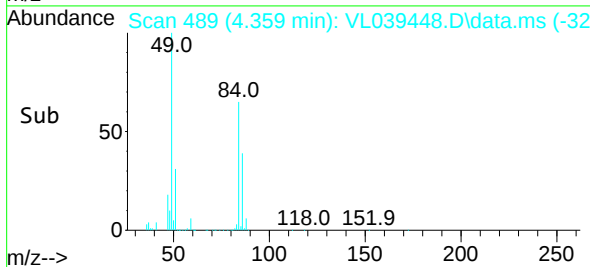
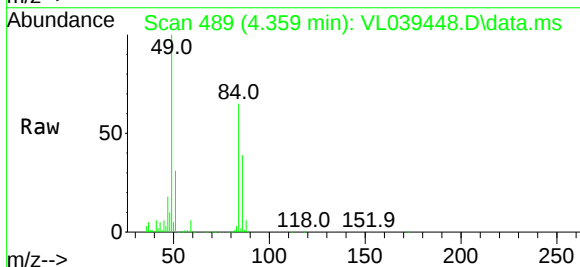
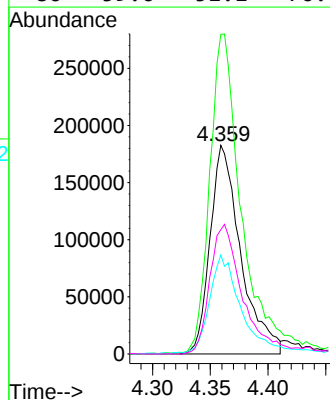
Manual Integrations
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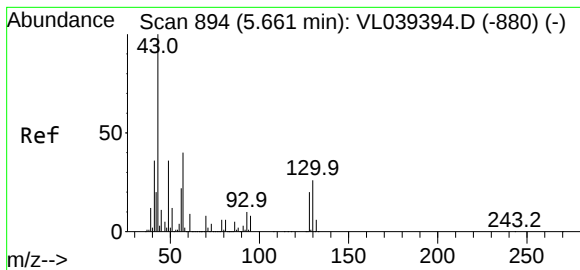
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#20
Methylene Chloride
Concen: 5.690 ppbv
RT: 4.359 min Scan# 489
Delta R.T. 0.029 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

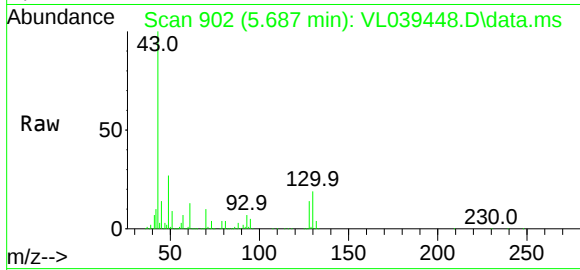
Tgt Ion: 84 Resp: 337089
Ion Ratio Lower Upper
84 100
49 152.5 123.1 184.7
51 46.6 34.4 51.6
86 59.6 51.1 76.7





#25
Ethyl Acetate
Concen: 16.603 ppbv
RT: 5.687 min Scan# 902
Delta R.T. 0.026 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

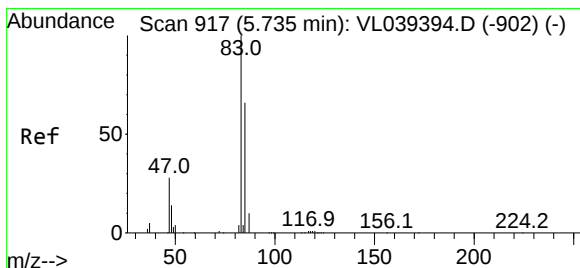
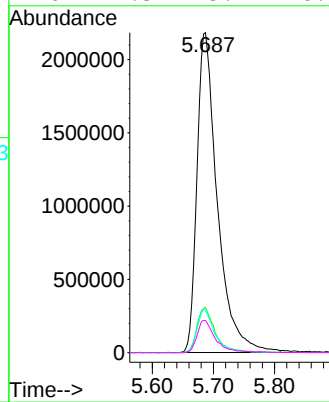
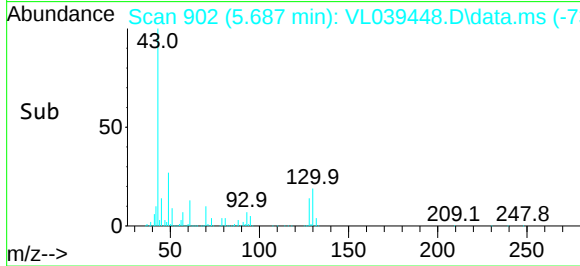
Instrument :
MSVOA_L
ClientSampleId :
IA-18E



Tgt Ion: 43 Resp: 5059628
Ion Ratio Lower Upper
43 100
45 12.8 8.2 12.4
61 11.8 8.3 12.5
70 9.3 5.9 8.9#

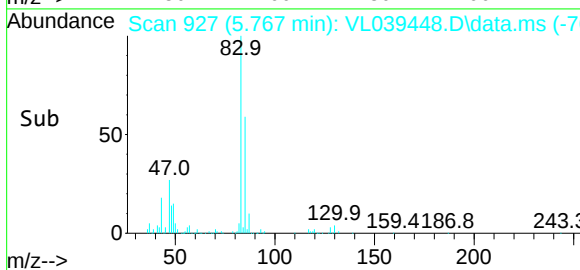
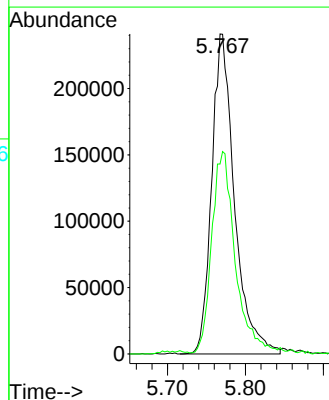
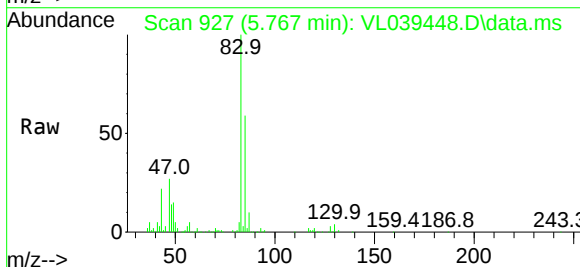
Manual Integrations
APPROVED

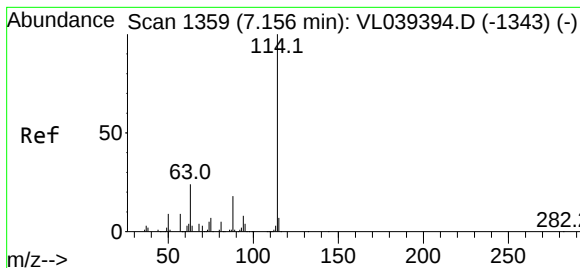
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#29
Chloroform
Concen: 2.293 ppbv
RT: 5.767 min Scan# 927
Delta R.T. 0.032 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

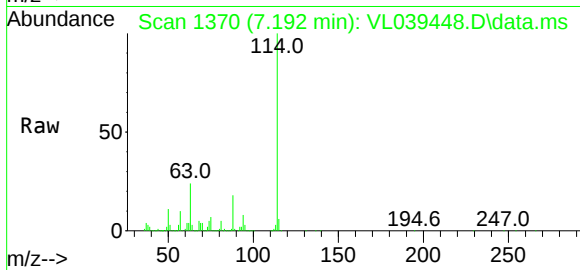
Tgt Ion: 83 Resp: 489684
Ion Ratio Lower Upper
83 100
85 58.3 52.8 79.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.192 min Scan# 1114
Delta R.T. 0.035 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

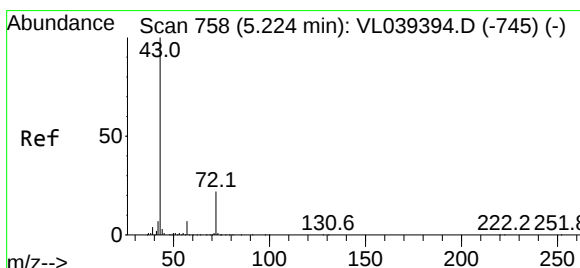
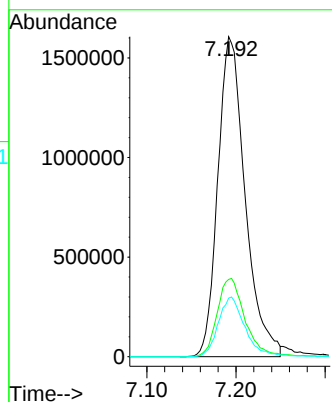
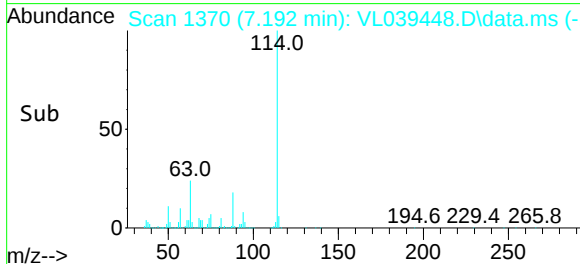
Instrument :
MSVOA_L
ClientSampleId :
IA-18E



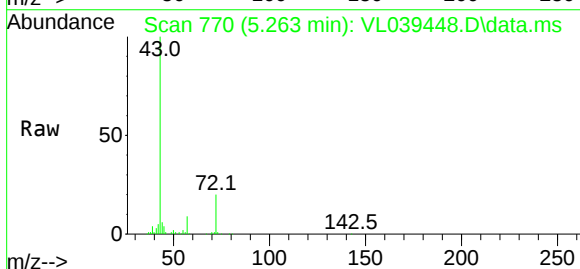
Tgt Ion:114 Resp: 341400
Ion Ratio Lower Upper
114 100
63 25.4 20.2 30.4
88 18.3 14.5 21.7

Manual Integrations
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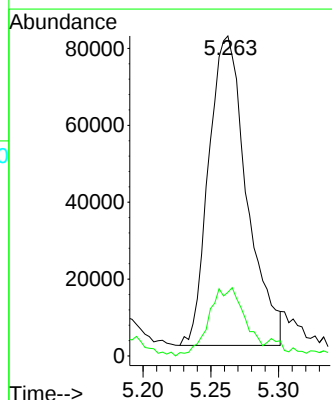
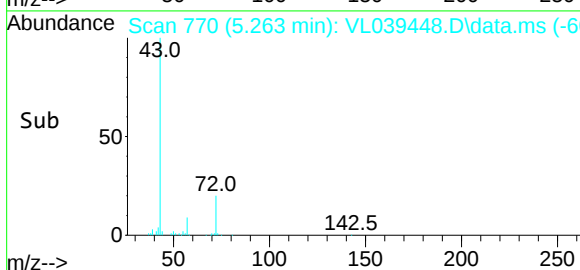
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

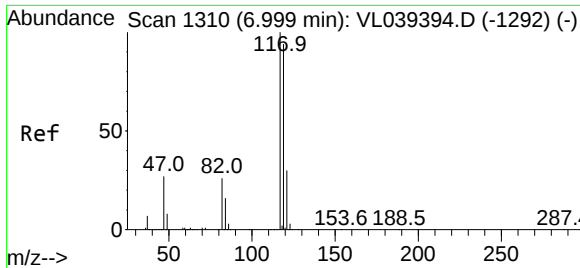


#34
2-Butanone
Concen: 0.917 ppbv
RT: 5.263 min Scan# 770
Delta R.T. 0.038 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31



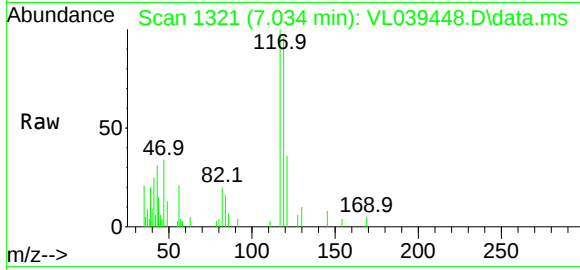
Tgt Ion: 43 Resp: 157584
Ion Ratio Lower Upper
43 100
72 25.3 17.9 26.9





#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.034 min Scan# 117
Delta R.T. 0.035 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

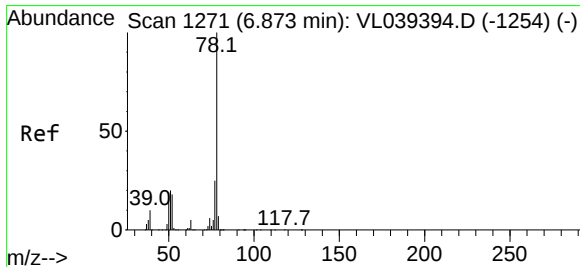
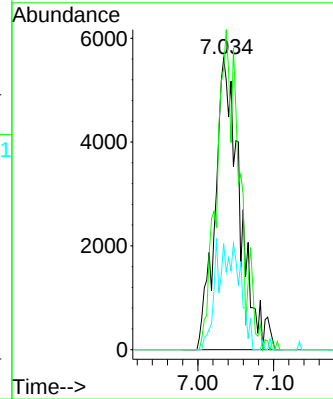
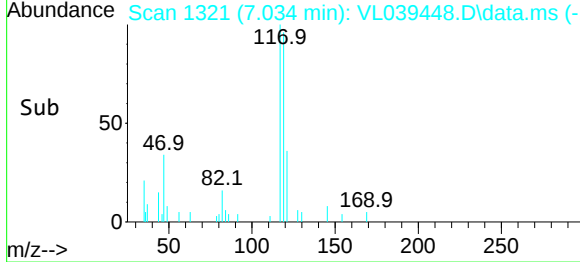
Instrument :
MSVOA_L
ClientSampleId :
IA-18E



Tgt Ion: 117 Resp: 1278
Ion Ratio Lower Upper
117 100
119 96.5 75.4 113.2
121 36.4 24.2 36.2

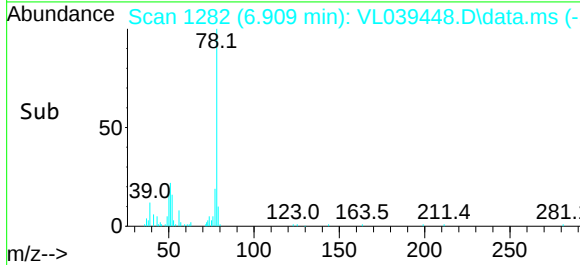
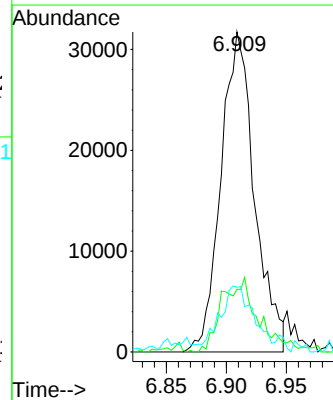
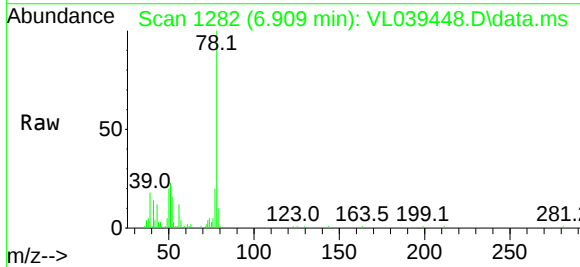
Manual Integrations
APPROVED

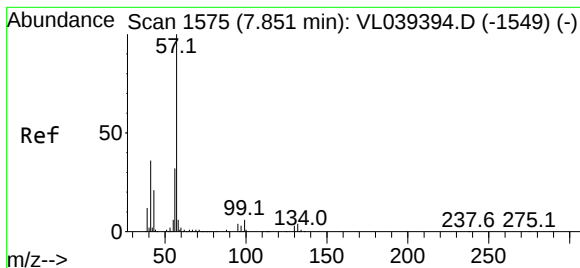
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#36
Benzene
Concen: 0.234 ppbv
RT: 6.909 min Scan# 1282
Delta R.T. 0.035 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

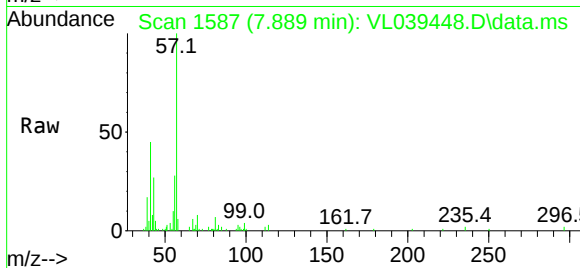
Tgt Ion: 78 Resp: 61879
Ion Ratio Lower Upper
78 100
77 19.0 20.3 30.5#
50 17.3 15.5 23.3





#44
2,2,4-Trimethylpentane
Concen: 0.127 ppbv
RT: 7.889 min Scan# 1587
Delta R.T. 0.038 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

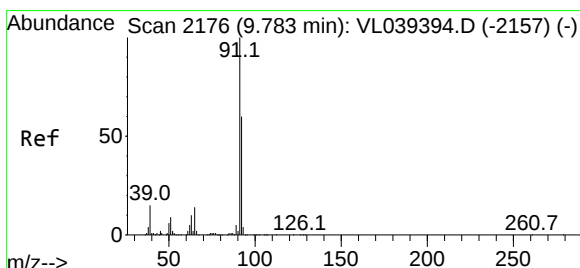
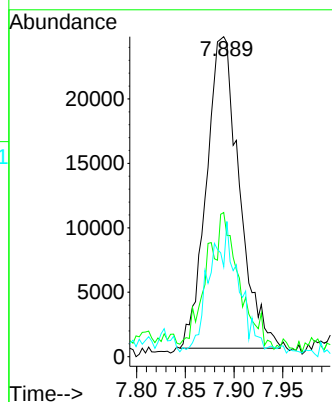
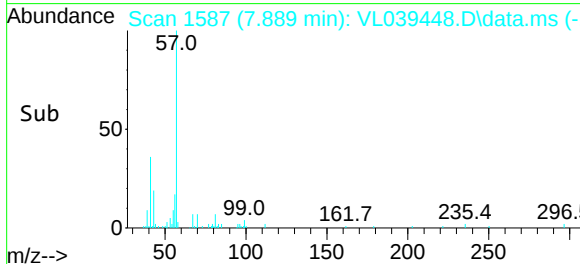
Instrument :
MSVOA_L
ClientSampleId :
IA-18E



Tgt Ion: 57 Resp: 56710
Ion Ratio Lower Upper
57 100
41 47.4 27.4 41.2
56 42.2 24.5 36.7

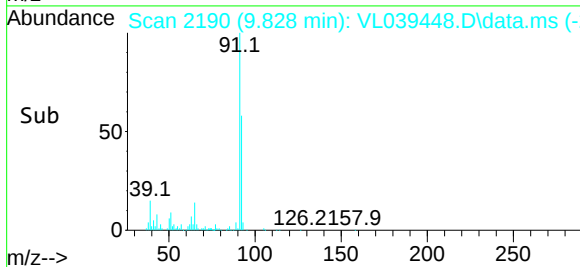
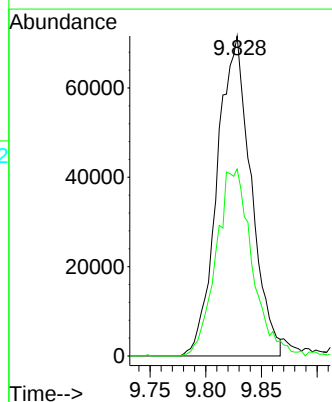
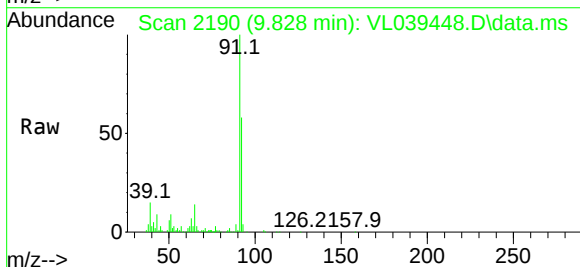
Manual Integrations
APPROVED

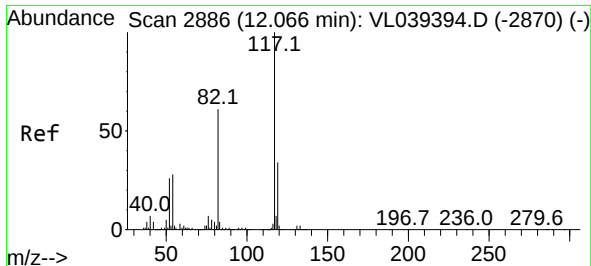
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#53
Toluene
Concen: 0.497 ppbv
RT: 9.828 min Scan# 2190
Delta R.T. 0.045 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

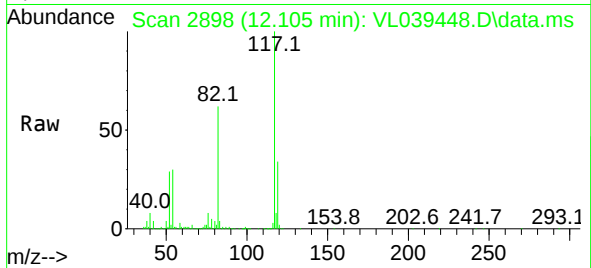
Tgt Ion: 91 Resp: 151609
Ion Ratio Lower Upper
91 100
92 62.2 48.2 72.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.105 min Scan# 21
Delta R.T. 0.038 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

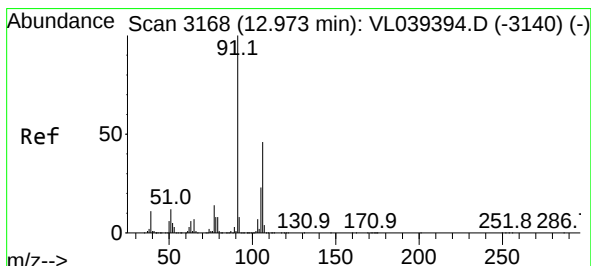
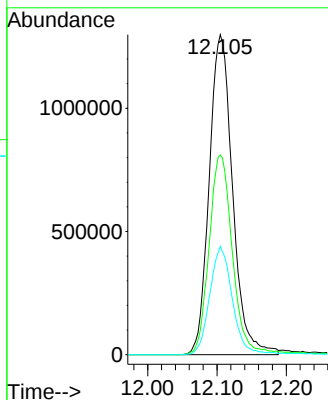
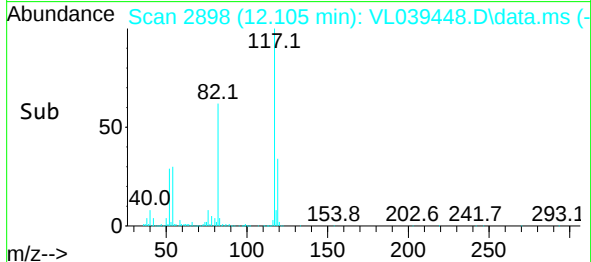
Instrument :
MSVOA_L
ClientSampleId :
IA-18E



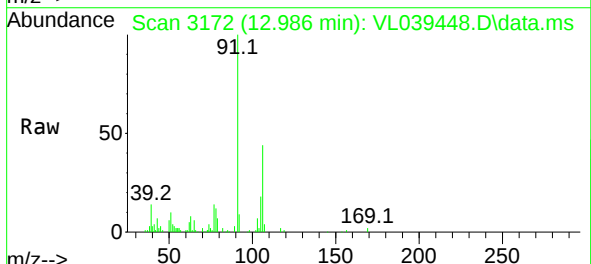
Tgt Ion:117 Resp: 3041849
Ion Ratio Lower Upper
117 100
82 63.5 50.8 76.2
119 33.3 24.1 36.1

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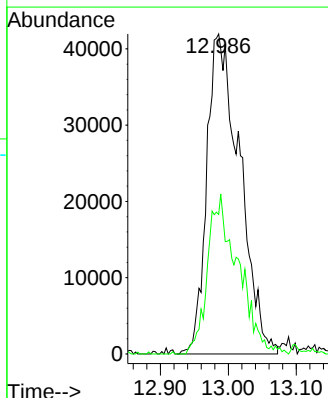
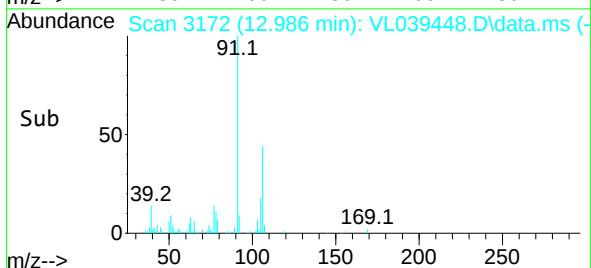
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

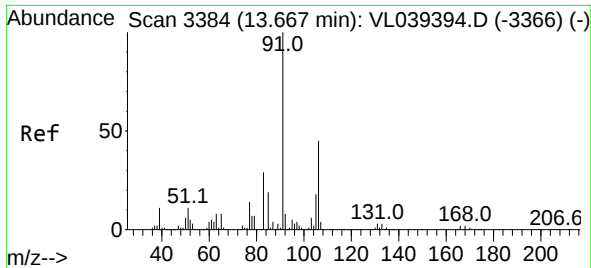


#59
m/p-Xylene
Concen: 0.408 ppbv m
RT: 12.986 min Scan# 3172
Delta R.T. 0.013 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31



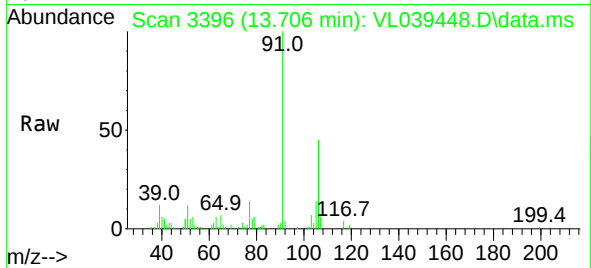
Tgt Ion: 91 Resp: 141313
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





#60
o-Xylene
Concen: 0.169 ppbv m
RT: 13.706 min Scan# 31
Delta R.T. 0.038 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

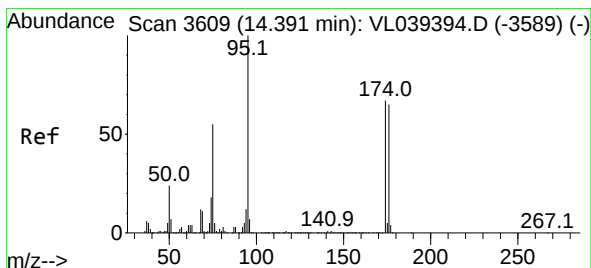
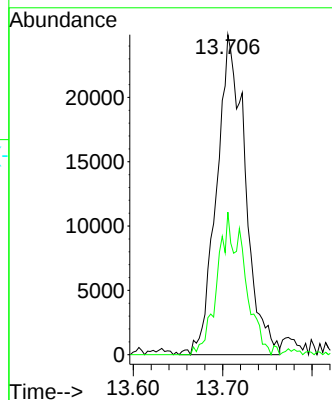
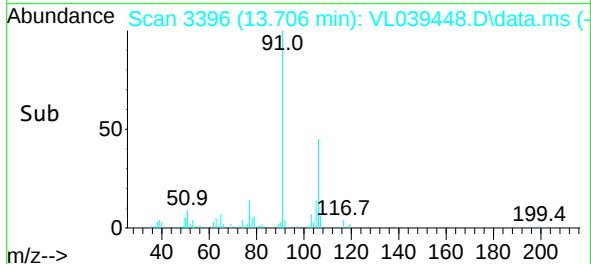
Instrument :
MSVOA_L
ClientSampleId :
IA-18E



Tgt Ion: 91 Resp: 55578
Ion Ratio Lower Upper
91 100
106 43.3 22.4 67.3

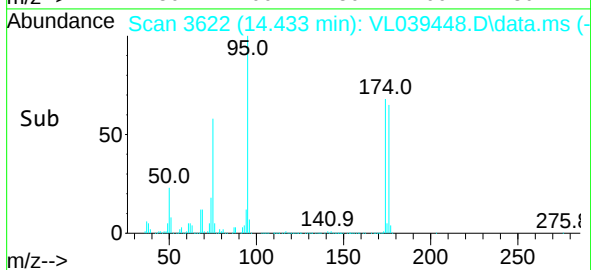
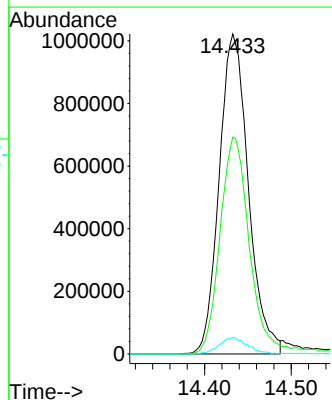
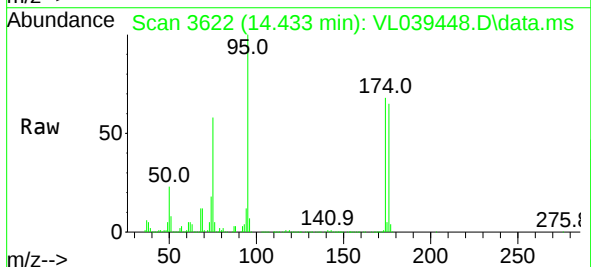
Manual Integrations
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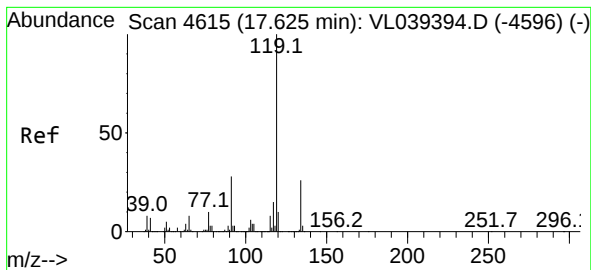
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 10.598 ppbv
RT: 14.433 min Scan# 3622
Delta R.T. 0.042 min
Lab File: VL039448.D
Acq: 12 Jul 2022 14:31

Tgt Ion: 95 Resp: 2391494
Ion Ratio Lower Upper
95 100
174 70.7 55.9 83.9
175 5.1 4.2 6.4





#69

p-Isopropyltoluene

Concen: 0.212 ppbv

RT: 17.667 min Scan# 4628

Delta R.T. 0.042 min

Lab File: VL039448.D

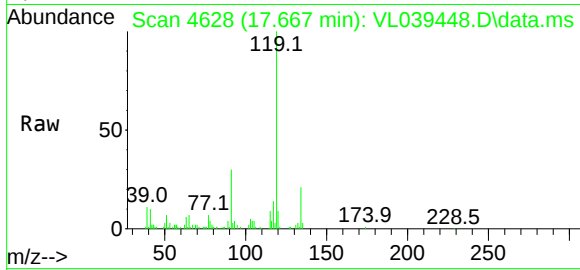
Acq: 12 Jul 2022 14:31

Instrument :

MSVOA_L

ClientSampleId :

IA-18E



Tgt Ion:119 Resp: 11206

Ion Ratio Lower Upper

119 100

134 27.3 20.3 30.5

91 36.4 22.9 34.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022

Supervised By :Mahesh Dadoda 07/13/2022

