

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
 Data File : VL038245.D
 Acq On : 29 Dec 2021 23:15
 Operator : SY/AP
 Sample : M5252-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/30/2021
 Supervised By :Semsettin Yesilyurt 01/02/2022

Quant Time: Dec 30 06:20:23 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Dec 2

QLast Update : Tue Dec 21 17:47:08 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.671	49	659257	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.179	114	1598305	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.082	117	1346788	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.413	95	1022907	9.856	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.057	85	26715	0.215	ppbv	99
3) Chlorodifluoromethane	2.996	51	37368m	0.270	ppbv	
4) Chloromethane	3.147	50	20245m	0.421	ppbv	
9) Propene	3.031	41	49978	1.039	ppbv #	72
11) Trichlorofluoromethane	3.960	101	315255	2.763	ppbv	97
13) Ethanol	3.610	45	1838856	225.487	ppbv #	100
15) Acetone	3.851	43	4618628	69.806	ppbv	98
19) Isopropyl Alcohol	3.973	45	1156251	28.018	ppbv #	1
20) Methylene Chloride	4.349	84	127602	3.416	ppbv	97
25) Ethyl Acetate	5.684	43	132942	0.742	ppbv #	96
26) Hexane	5.690	57	85180	0.947	ppbv #	74
32) 1,1,1-Trichloroethane	6.523	97	5070m	0.038	ppbv	
34) 2-Butanone	5.256	43	20536m	0.427	ppbv	
35) Carbon Tetrachloride	7.018	117	8732m	0.089	ppbv	
36) Benzene	6.893	78	35392	0.237	ppbv	96
38) Trichloroethene	7.838	130	32327	0.570	ppbv	95
52) Tetrachloroethene	11.224	164	109717m	1.994	ppbv	
53) Toluene	9.806	91	52630	0.306	ppbv	99
58) Ethyl Benzene	12.716	91	25018m	0.120	ppbv	
59) m/p-Xylene	12.967	91	77319m	0.433	ppbv	
60) o-Xylene	13.690	91	25646	0.155	ppbv	96

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

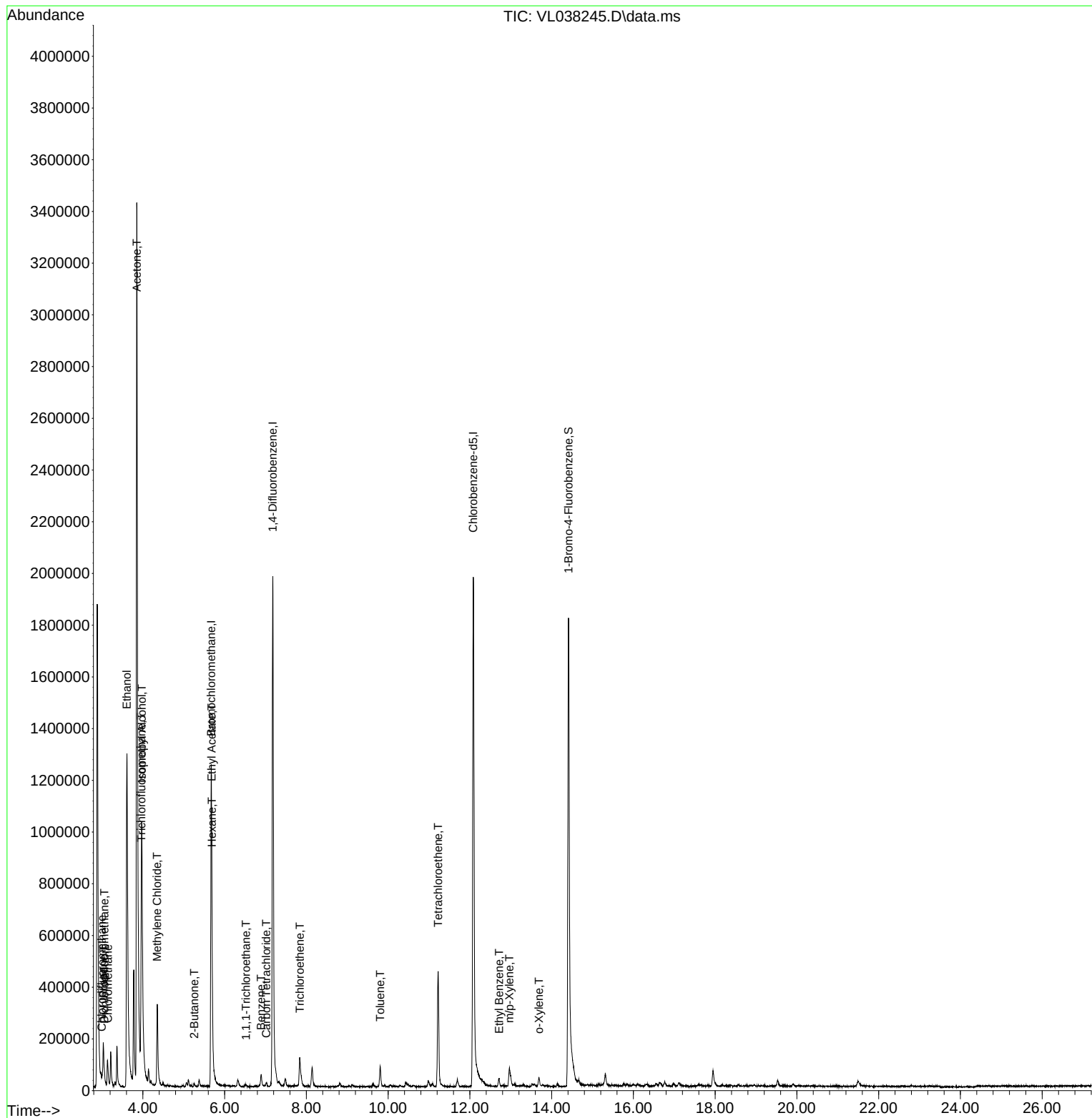
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122921\
Data File : VL038245.D
Acq On : 29 Dec 2021 23:15
Operator : SY/AP
Sample : M5252-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

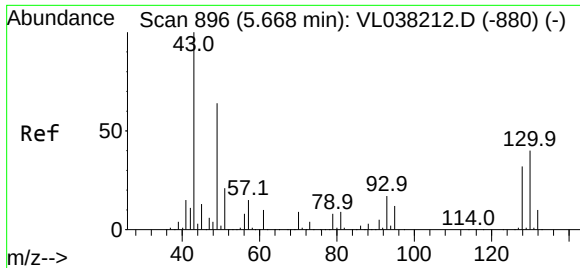
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Quant Time: Dec 30 06:20:23 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec
QLast Update : Tue Dec 21 17:47:08 2021
Response via : Initial Calibration

Manual Integrations
APPROVED

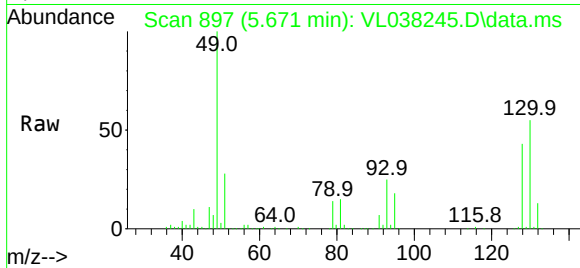
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.671 min Scan# 896
Delta R.T. 0.003 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

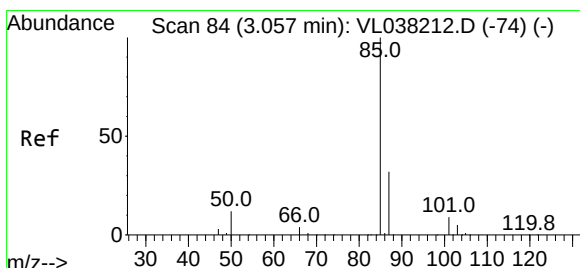
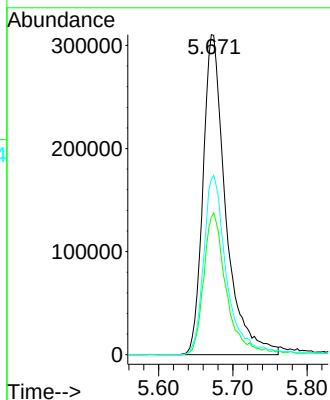
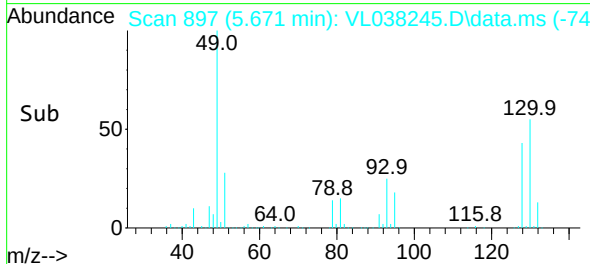
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP



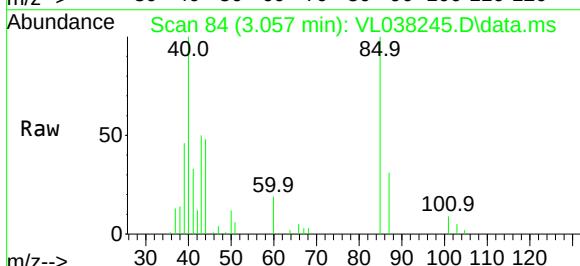
Tgt Ion: 49 Resp: 65925
Ion Ratio Lower Upper
49 100
128 45.1 26.9 80.6
130 58.2 32.3 96.9

Manual Integrations
APPROVED

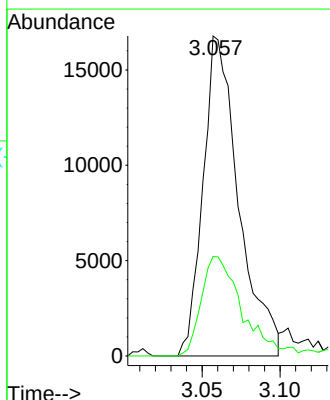
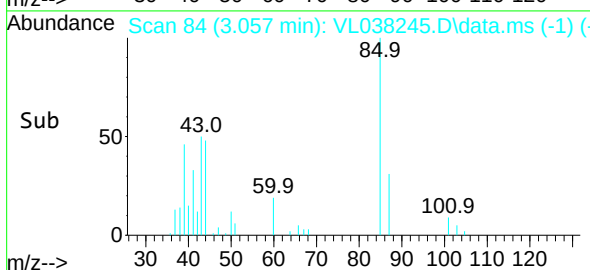
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

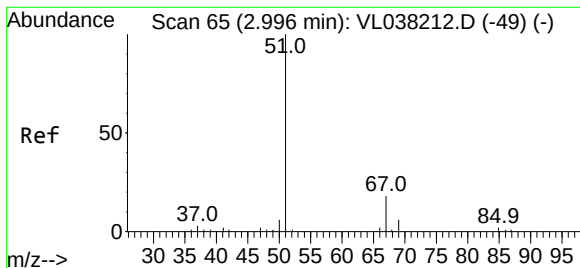


#2
Dichlorodifluoromethane
Concen: 0.215 ppbv
RT: 3.057 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15



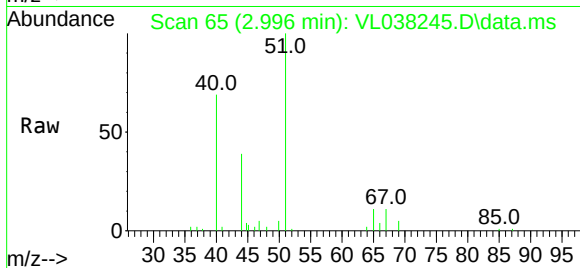
Tgt Ion: 85 Resp: 26715
Ion Ratio Lower Upper
85 100
87 31.1 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.270 ppbv m
RT: 2.996 min Scan# 65
Delta R.T. -0.000 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

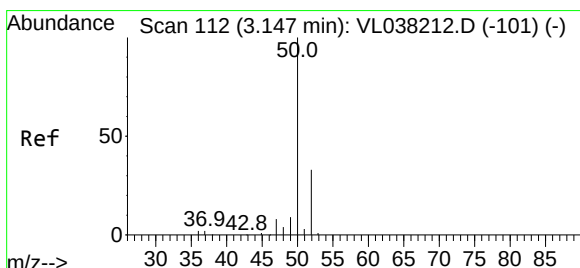
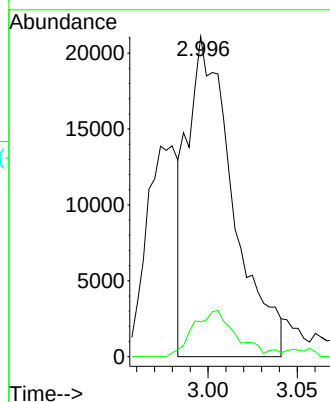
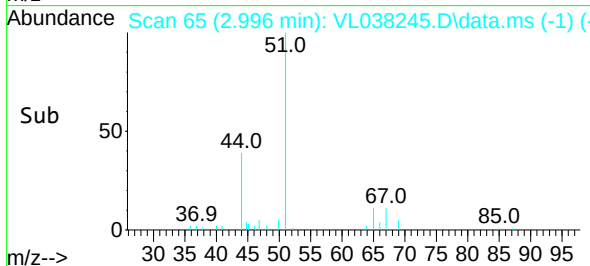
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP



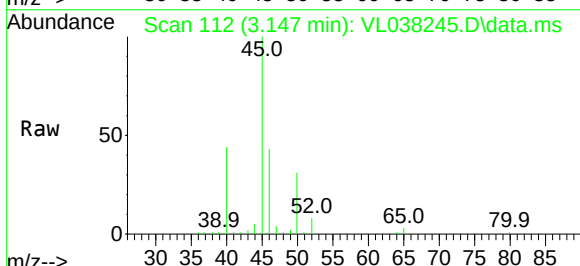
Tgt Ion: 51 Resp: 3736
Ion Ratio Lower Upper
51 100
67 13.8 14.0 21.0

Manual Integrations
APPROVED

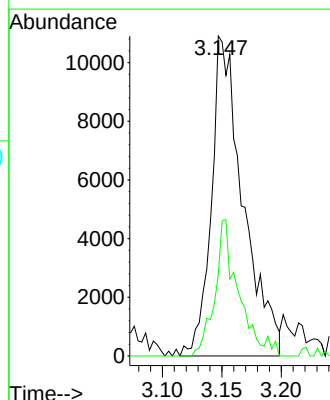
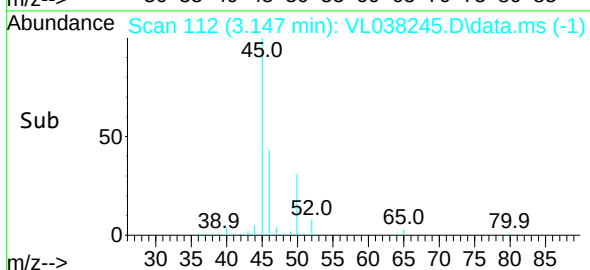
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

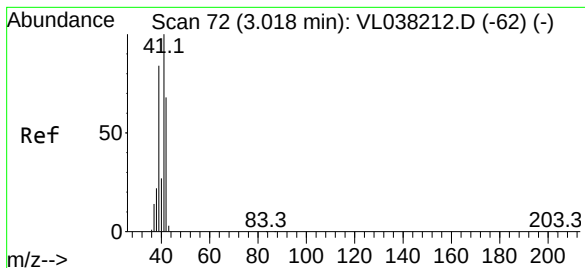


#4
Chloromethane
Concen: 0.421 ppbv m
RT: 3.147 min Scan# 112
Delta R.T. 0.000 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15



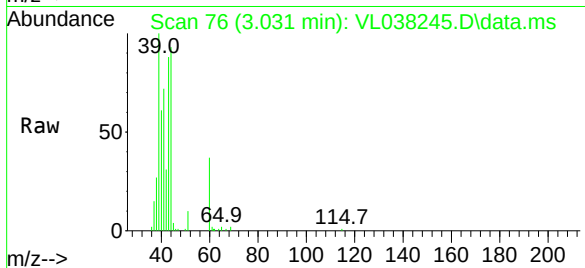
Tgt Ion: 50 Resp: 20245
Ion Ratio Lower Upper
50 100
52 25.5 26.2 39.2





#9
Propene
Concen: 1.039 ppbv
RT: 3.031 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

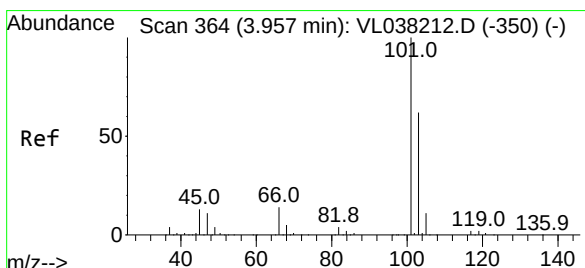
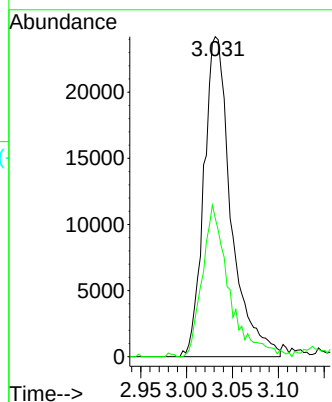
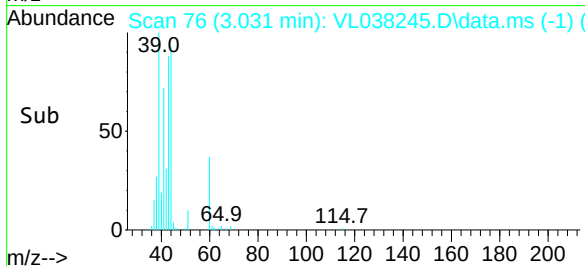
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP



Tgt Ion: 41 Resp: 49978
Ion Ratio Lower Upper
41 100
42 46.6 55.5 83.3

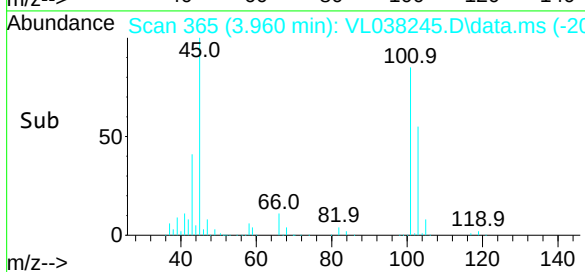
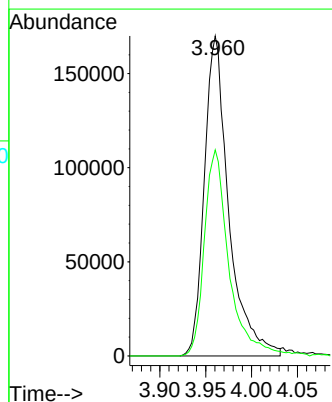
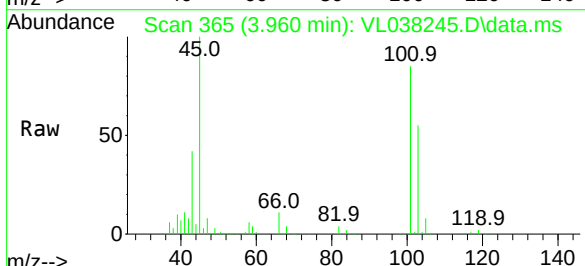
Manual Integrations
APPROVED

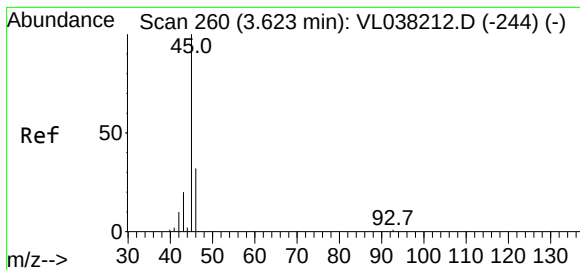
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#11
Trichlorofluoromethane
Concen: 2.763 ppbv
RT: 3.960 min Scan# 365
Delta R.T. 0.003 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

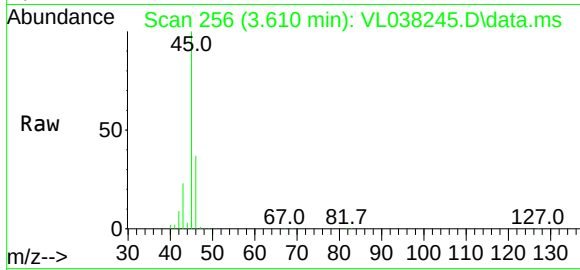
Tgt Ion:101 Resp: 315255
Ion Ratio Lower Upper
101 100
103 64.4 49.9 74.9





#13
Ethanol
Concen: 225.487 ppbv
RT: 3.610 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

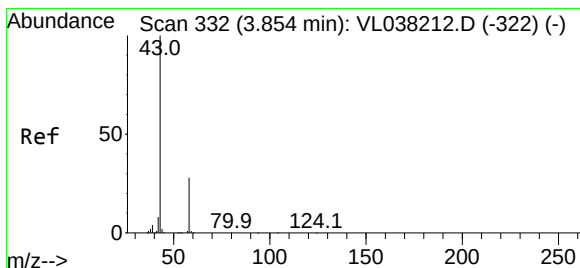
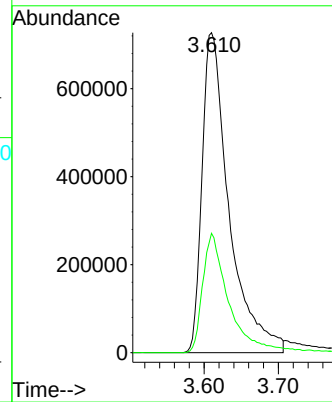
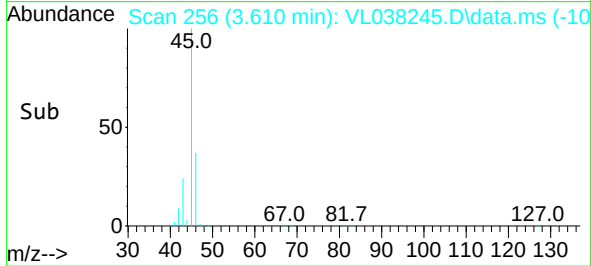
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP



Tgt Ion: 45 Resp: 183885
Ion Ratio Lower Upper
45 100
46 36.9 0.0 0.0

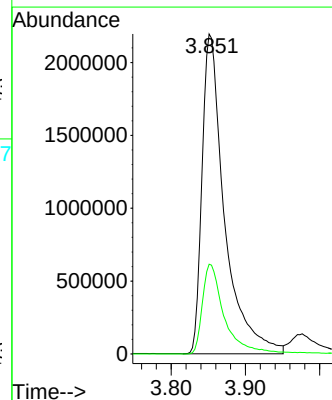
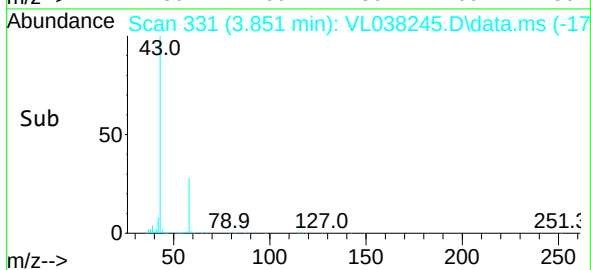
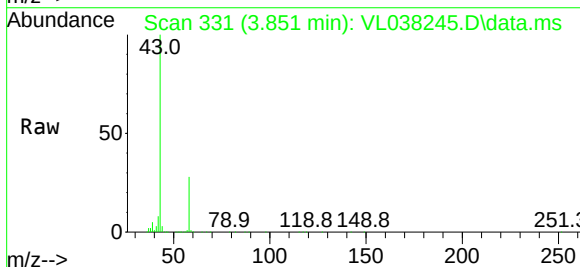
Manual Integrations
APPROVED

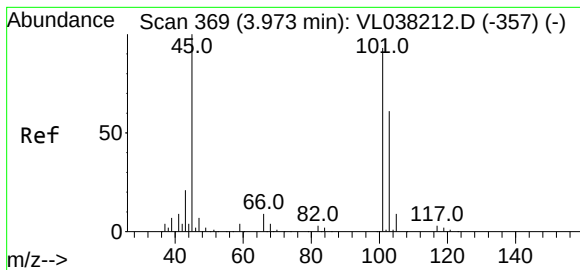
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#15
Acetone
Concen: 69.806 ppbv
RT: 3.851 min Scan# 331
Delta R.T. -0.003 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

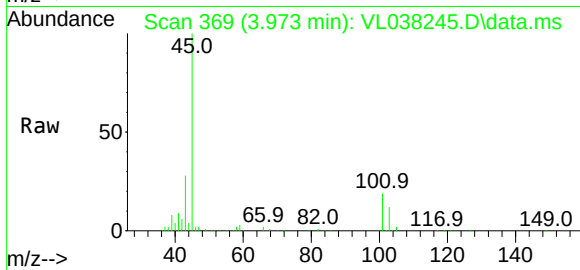
Tgt Ion: 43 Resp: 4618628
Ion Ratio Lower Upper
43 100
58 28.3 23.3 34.9





#19
Isopropyl Alcohol
Concen: 28.018 ppbv
RT: 3.973 min Scan# 369
Delta R.T. 0.000 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

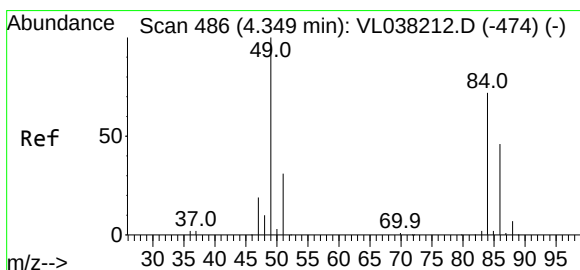
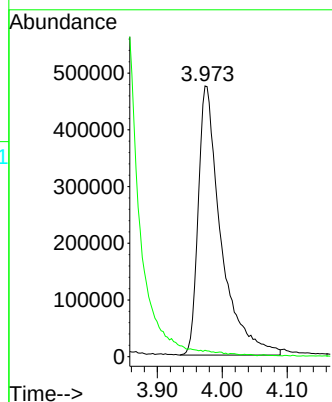
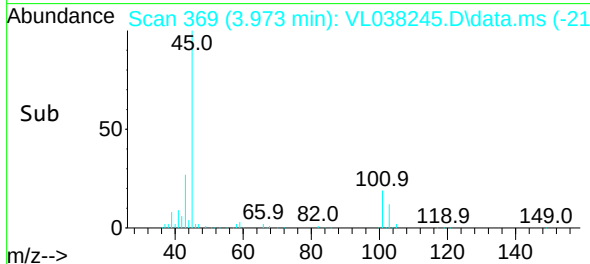
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP



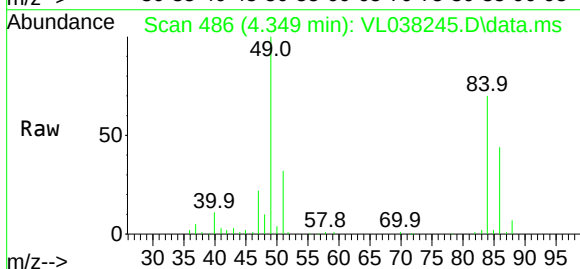
Tgt Ion: 45 Resp: 115625
Ion Ratio Lower Upper
45 100
58 112.9 32.4 48.6

Manual Integrations
APPROVED

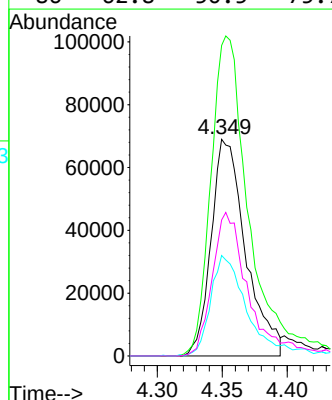
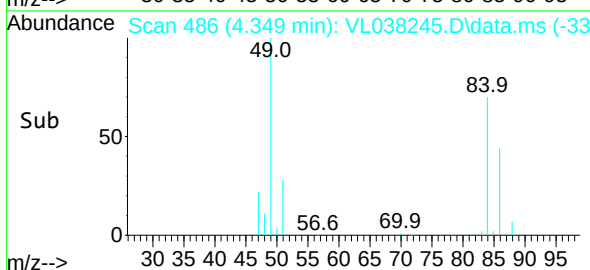
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

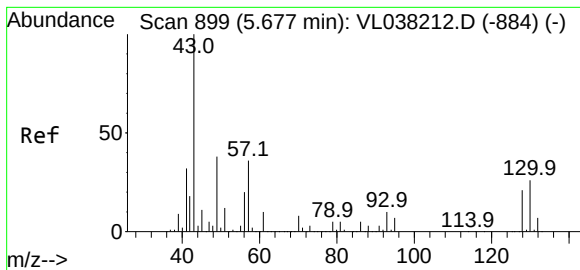


#20
Methylene Chloride
Concen: 3.416 ppbv
RT: 4.349 min Scan# 486
Delta R.T. 0.000 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15



Tgt Ion: 84 Resp: 127602
Ion Ratio Lower Upper
84 100
49 143.1 110.6 166.0
51 46.5 34.2 51.2
86 62.8 50.5 75.7





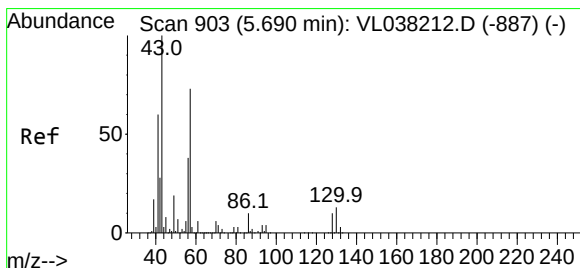
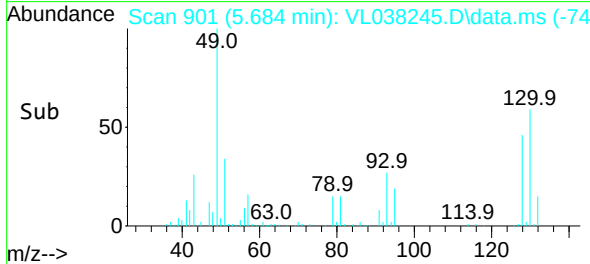
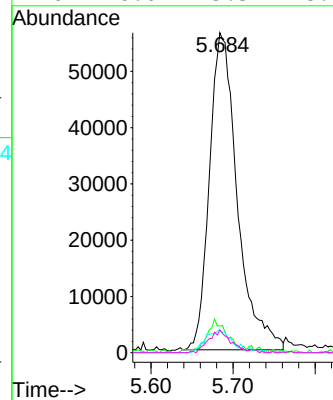
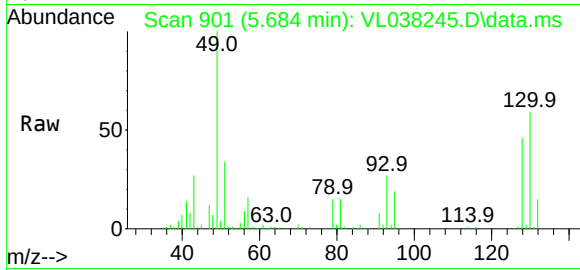
#25
Ethyl Acetate
Concen: 0.742 ppbv
RT: 5.684 min Scan# 901
Delta R.T. 0.006 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tgt Ion: 43 Resp: 132942
Ion Ratio Lower Upper
43 100
45 9.4 7.9 11.9
61 7.3 8.1 12.1
70 6.0 5.5 8.3

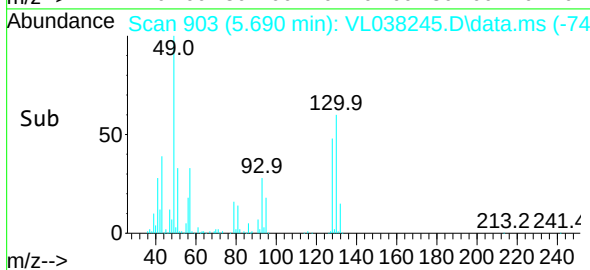
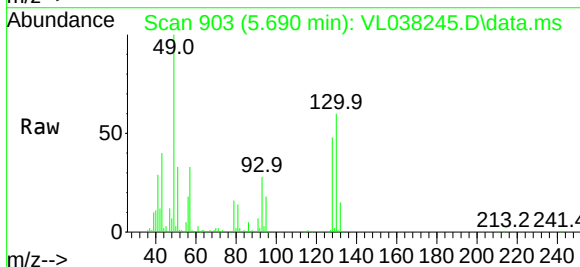
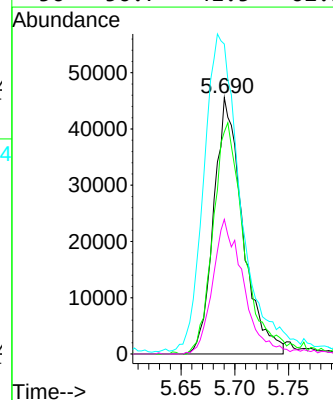
Manual Integrations
APPROVED

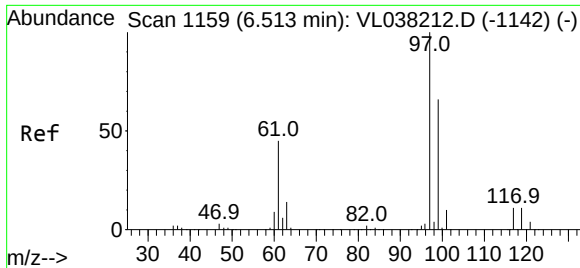
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#26
Hexane
Concen: 0.947 ppbv
RT: 5.690 min Scan# 903
Delta R.T. 0.000 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

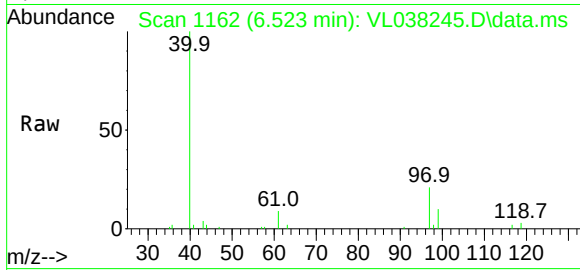
Tgt Ion: 57 Resp: 85180
Ion Ratio Lower Upper
57 100
41 100.4 69.0 103.6
43 158.9 171.2 256.8#
56 56.7 41.5 62.3





#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv m
RT: 6.523 min Scan# 1159
Delta R.T. 0.010 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

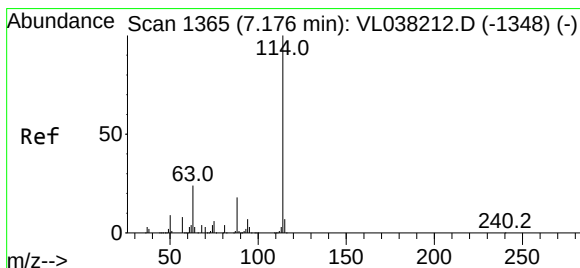
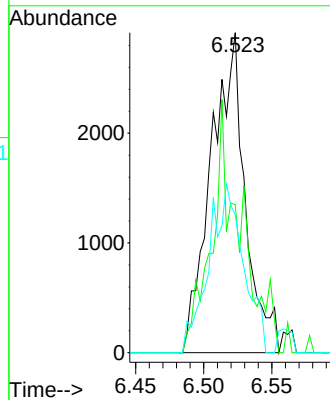
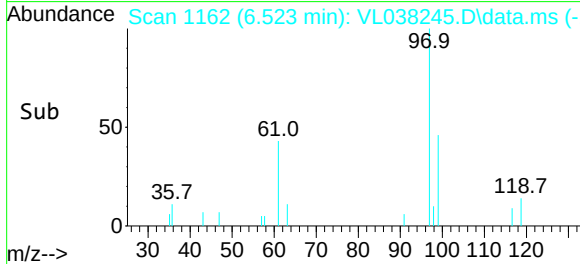
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP



Tgt Ion: 97 Resp: 5070
Ion Ratio Lower Upper
97 100
99 68.3 52.4 78.6
61 56.9 37.2 55.8

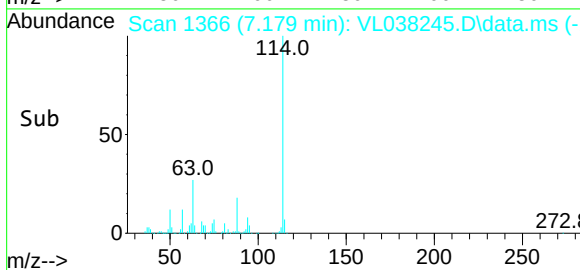
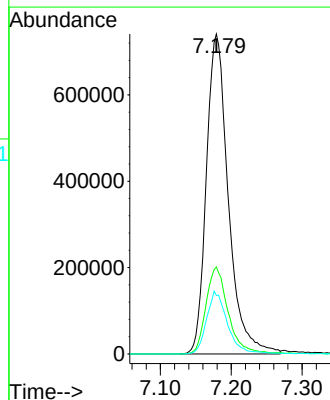
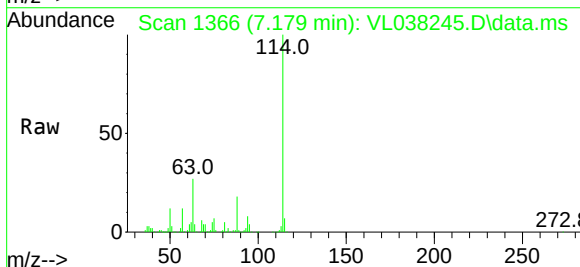
Manual Integrations
APPROVED

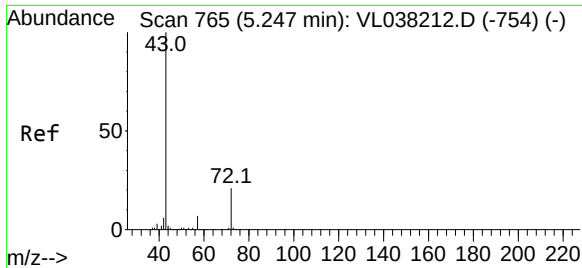
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.179 min Scan# 1366
Delta R.T. 0.003 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

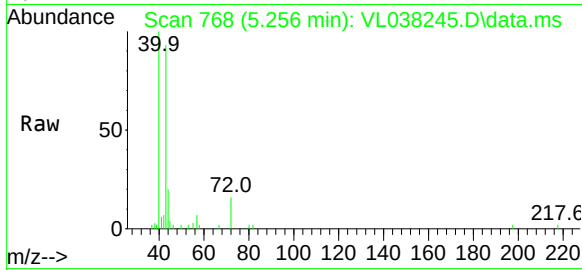
Tgt Ion:114 Resp: 1598305
Ion Ratio Lower Upper
114 100
63 27.8 19.7 29.5
88 18.9 14.3 21.5





#34
2-Butanone
Concen: 0.427 ppbv m
RT: 5.256 min Scan# 768
Delta R.T. 0.010 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

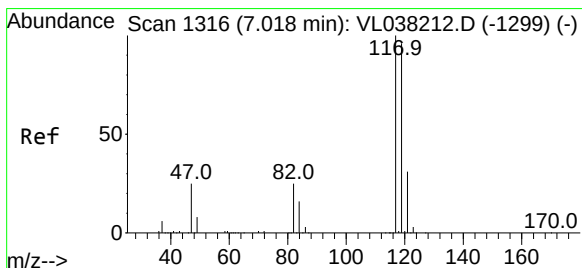
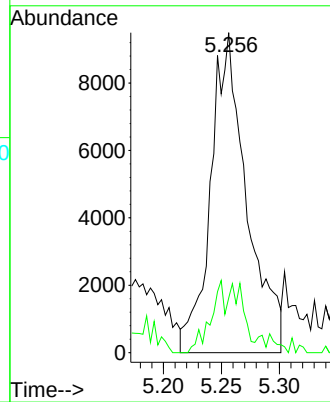
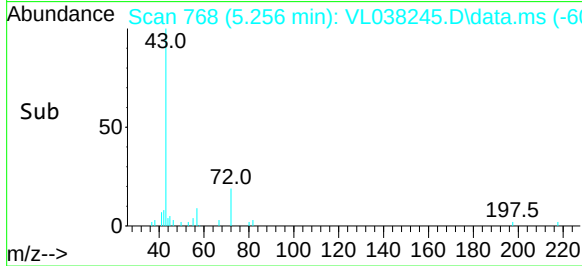
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP



Tgt Ion: 43 Resp: 20530
Ion Ratio Lower Upper
43 100
72 21.4 18.3 27.5

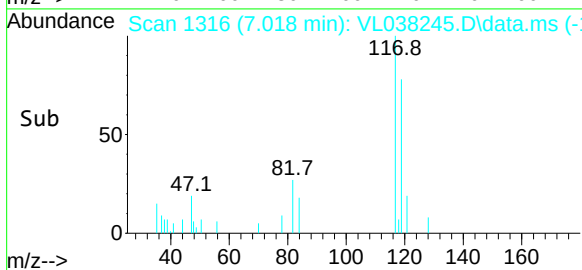
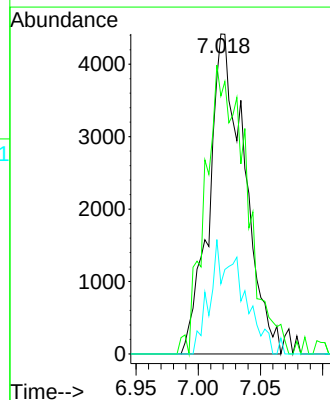
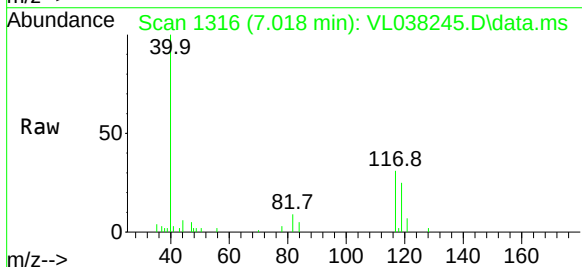
Manual Integrations
APPROVED

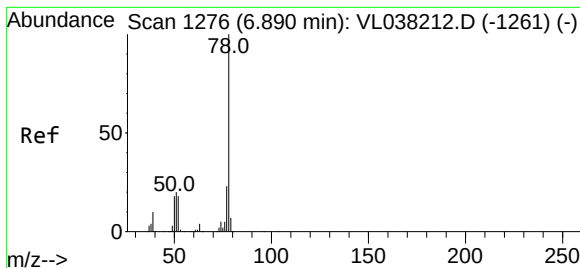
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022



#35
Carbon Tetrachloride
Concen: 0.089 ppbv m
RT: 7.018 min Scan# 1316
Delta R.T. 0.000 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

Tgt Ion:117 Resp: 8732
Ion Ratio Lower Upper
117 100
119 80.6 76.7 115.1
121 22.0 25.0 37.4#





#36

Benzene

Concen: 0.237 ppbv

RT: 6.893 min Scan# 1570

Delta R.T. 0.003 min

Lab File: VL038245.D

Acq: 29 Dec 2021 23:15

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tgt Ion: 78 Resp: 3539

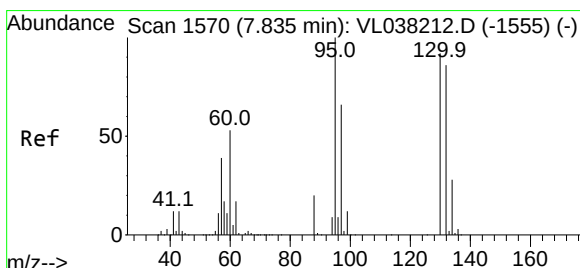
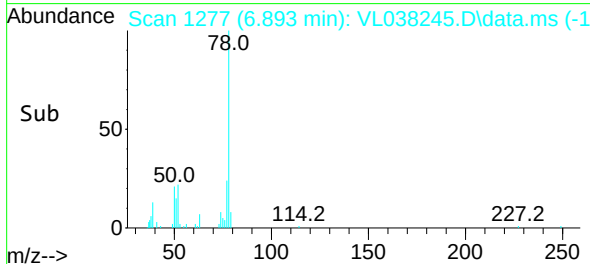
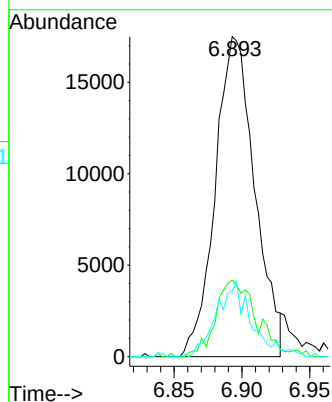
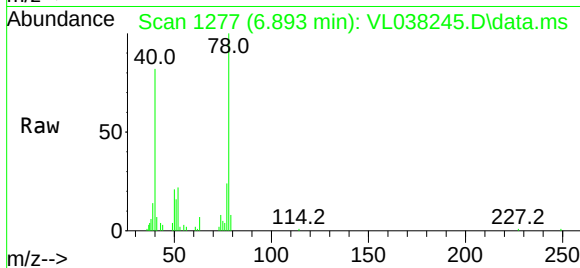
Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.2	27.4
50	20.6	14.3	21.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#38

Trichloroethene

Concen: 0.570 ppbv

RT: 7.838 min Scan# 1571

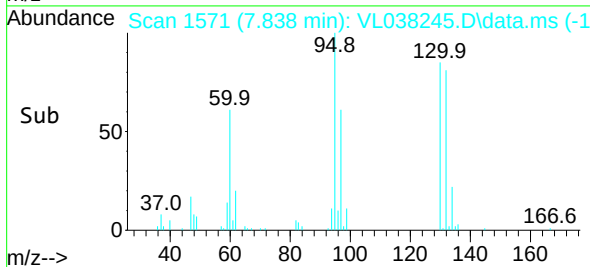
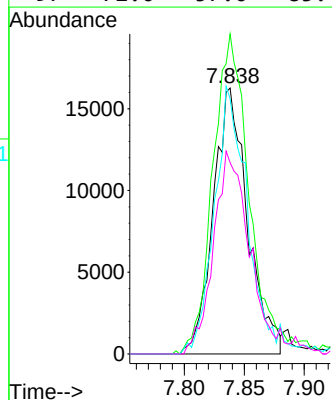
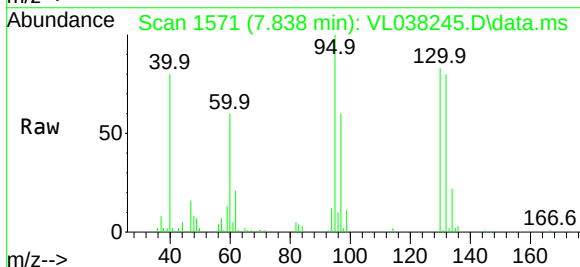
Delta R.T. 0.003 min

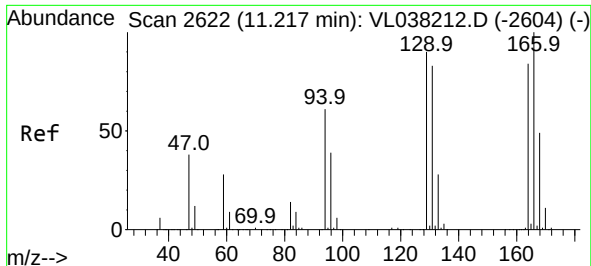
Lab File: VL038245.D

Acq: 29 Dec 2021 23:15

Tgt Ion:130 Resp: 32327

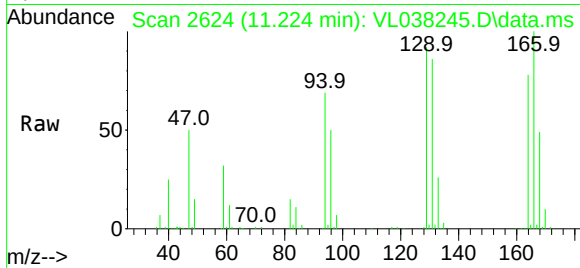
Ion	Ratio	Lower	Upper
130	100		
95	120.4	87.0	130.4
132	95.9	75.1	112.7
97	72.0	57.0	85.4





#52
Tetrachloroethene
Concen: 1.994 ppbv m
RT: 11.224 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

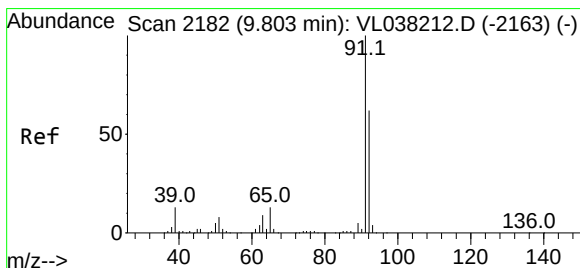
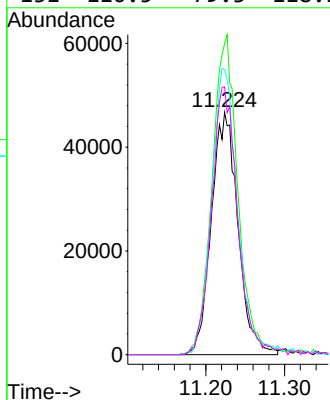
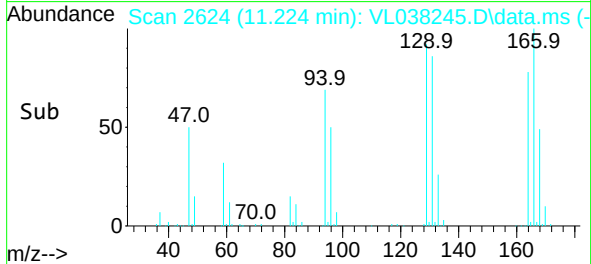
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP



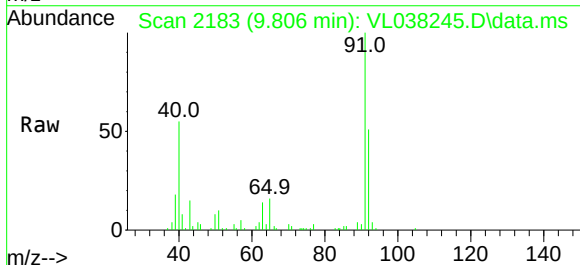
Tgt Ion:164 Resp: 10971
Ion Ratio Lower Upper
164 100
166 128.4 95.6 143.4
129 117.6 85.8 128.8
131 110.5 79.3 118.9

Manual Integrations
APPROVED

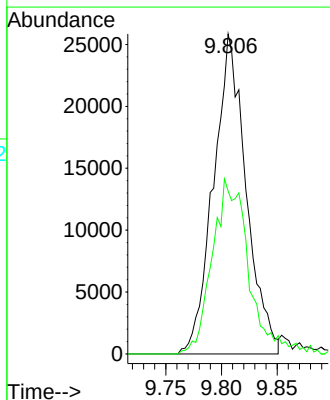
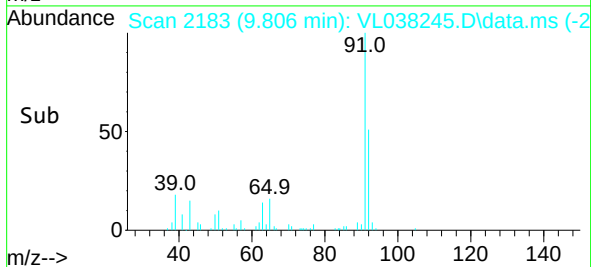
Reviewed By :Amit Patel 12/30/2021
Supervised By :Semsettin Yesilyurt 01/02/2022

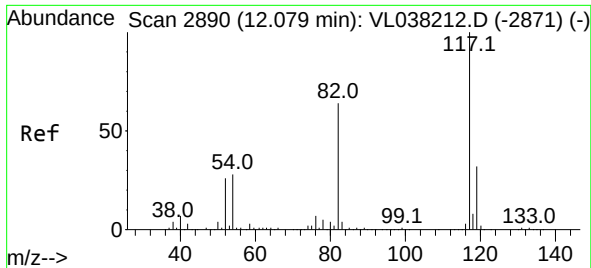


#53
Toluene
Concen: 0.306 ppbv
RT: 9.806 min Scan# 2183
Delta R.T. 0.003 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15



Tgt Ion: 91 Resp: 52630
Ion Ratio Lower Upper
91 100
92 61.6 48.9 73.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.082 min Scan# 2891

Delta R.T. 0.003 min

Lab File: VL038245.D

Acq: 29 Dec 2021 23:15

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tgt Ion:117 Resp: 134678

Ion Ratio Lower Upper

117 100

82 73.3 53.3 79.9

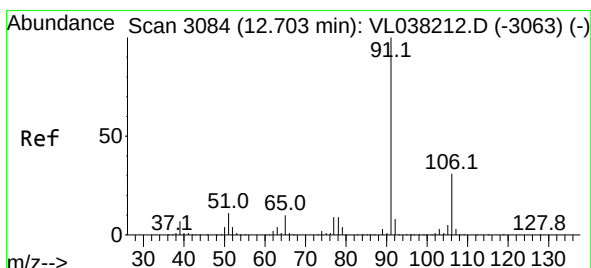
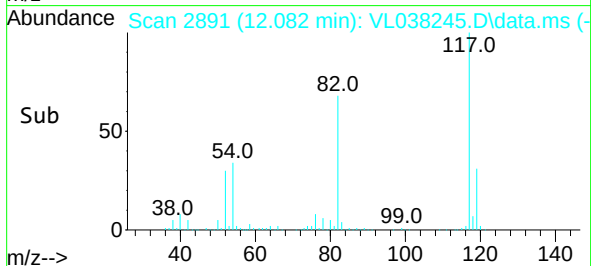
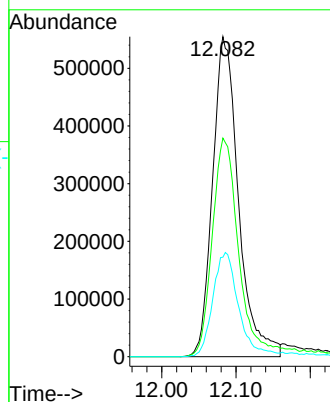
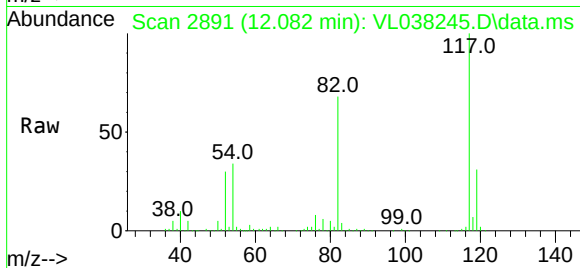
119 34.4 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#58

Ethyl Benzene

Concen: 0.120 ppbv m

RT: 12.716 min Scan# 3088

Delta R.T. 0.013 min

Lab File: VL038245.D

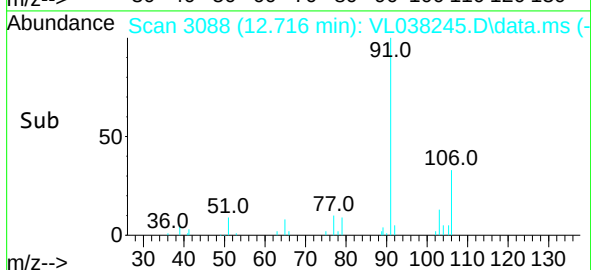
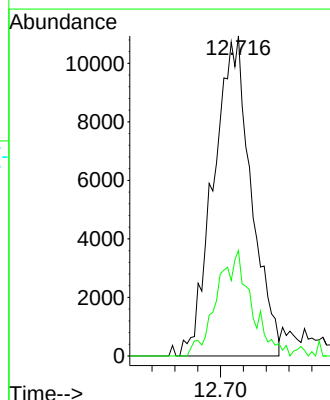
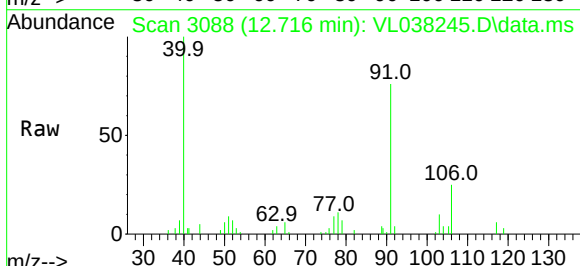
Acq: 29 Dec 2021 23:15

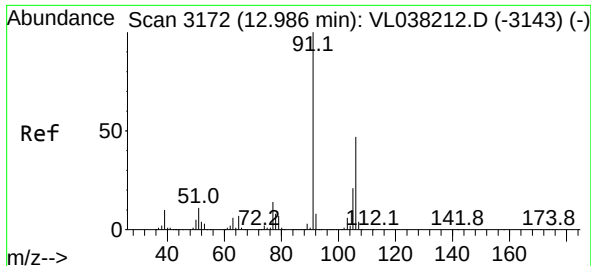
Tgt Ion: 91 Resp: 25018

Ion Ratio Lower Upper

91 100

106 33.0 25.0 37.4





#59

m/p-Xylene

Concen: 0.433 ppbv m

RT: 12.967 min Scan# 3172

Delta R.T. -0.019 min

Lab File: VL038245.D

Acq: 29 Dec 2021 23:15

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tgt Ion: 91 Resp: 77319

Ion Ratio Lower Upper

91 100

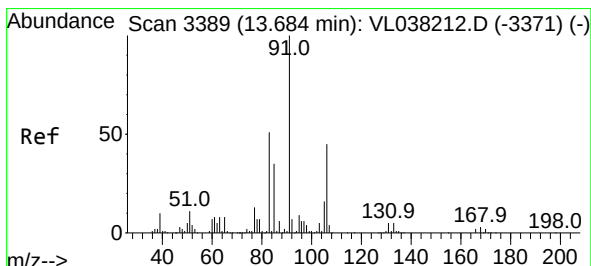
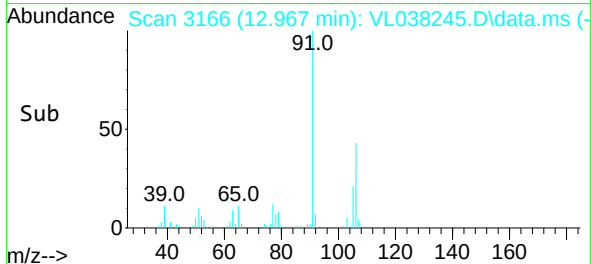
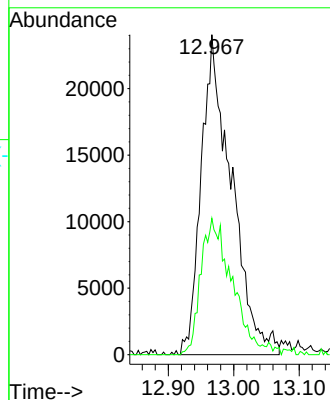
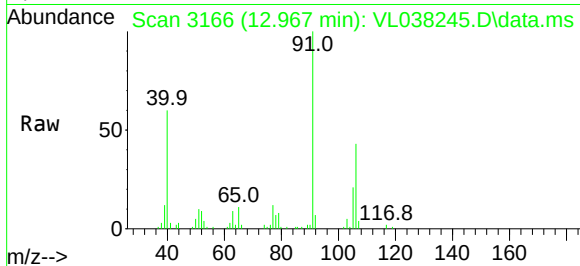
106 0.0 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022



#60

o-Xylene

Concen: 0.155 ppbv

RT: 13.690 min Scan# 3391

Delta R.T. 0.006 min

Lab File: VL038245.D

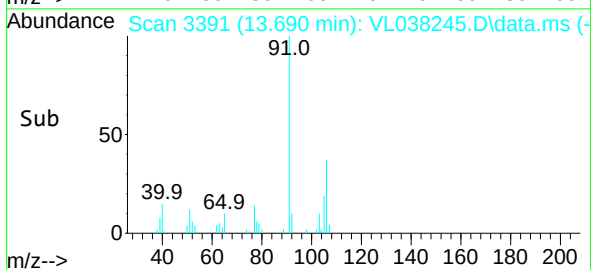
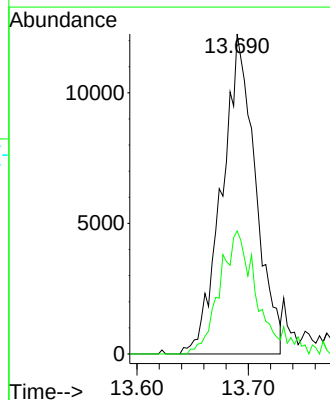
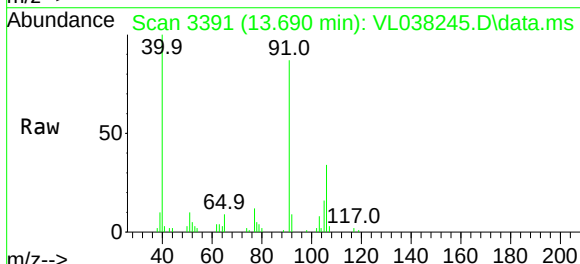
Acq: 29 Dec 2021 23:15

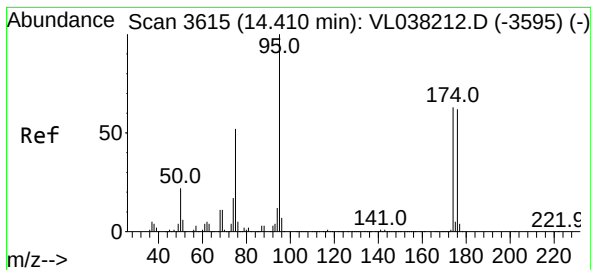
Tgt Ion: 91 Resp: 25646

Ion Ratio Lower Upper

91 100

106 44.2 23.5 70.5





#68

1-Bromo-4-Fluorobenzene

Concen: 9.856 ppbv

RT: 14.413 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL038245.D

Acq: 29 Dec 2021 23:15

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

Tgt Ion: 95 Resp: 102290

Ion Ratio Lower Upper

95 100

174 64.4 54.6 81.8

175 4.8 4.1 6.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/30/2021

Supervised By :Semsettin Yesilyurt 01/02/2022

