

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121421\
 Data File : VL038166.D
 Acq On : 14 Dec 2021 14:49
 Operator : SY/AP
 Sample : M5045-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 IA-6B

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021

Quant Time: Dec 15 05:35:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	909655	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	2442959	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2085495	10.00	ppbv	-0.04

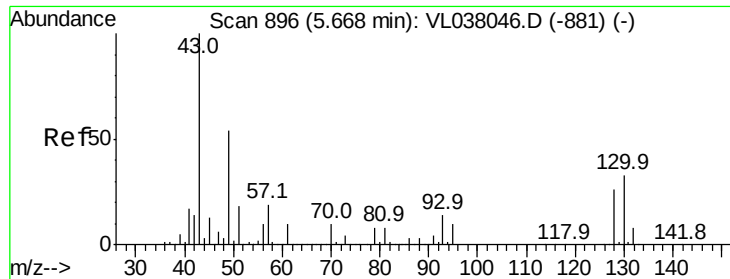
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1560025	10.37	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	42815	0.285	ppbv	93
3) Chlorodifluoromethane	2.97	51	42436m	0.222	ppbv	
4) Chloromethane	3.12	50	27200	0.418	ppbv	89
9) Propene	3.01	41	43645m	0.620	ppbv	
11) Trichlorofluoromethane	3.93	101	29992	0.210	ppbv #	75
13) Ethanol	3.59	45	616697	90.707	ppbv	89
15) Acetone	3.83	43	1259970	15.976	ppbv	99
19) Isopropyl Alcohol	3.96	45	130303	2.287	ppbv #	1
20) Methylene Chloride	4.32	84	6625483	149.980	ppbv	90
26) Hexane	5.66	57	4700529	37.205	ppbv #	44
34) 2-Butanone	5.22	43	33630m	0.341	ppbv	
35) Carbon Tetrachloride	6.98	117	13685m	0.080	ppbv	
36) Benzene	6.85	78	32107	0.132	ppbv #	88
53) Toluene	9.76	91	46605	0.166	ppbv	97
74) 1,2,4-Trimethylbenzene	16.71	105	35611m	0.121	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-6B

Acq: 14 Dec 2021 14:49

Tot Ion:

Ion Ratio

49 100

128 47.

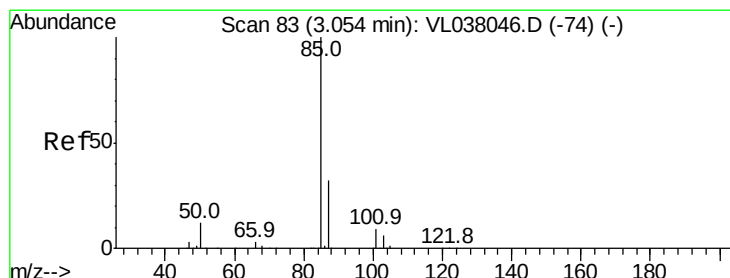
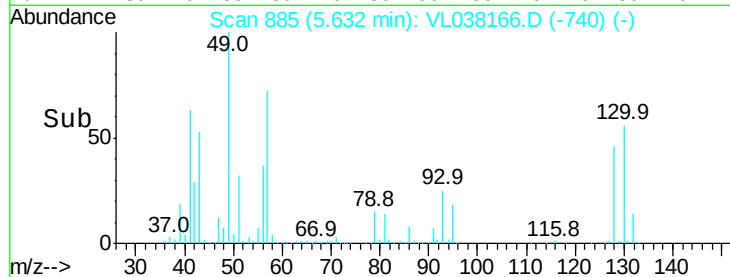
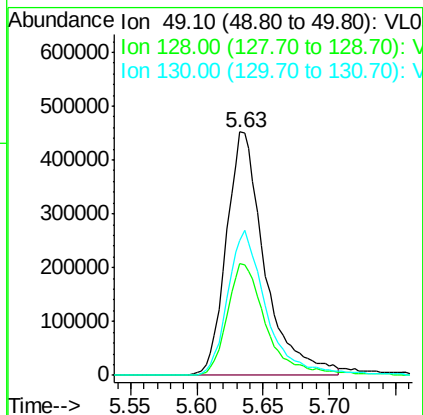
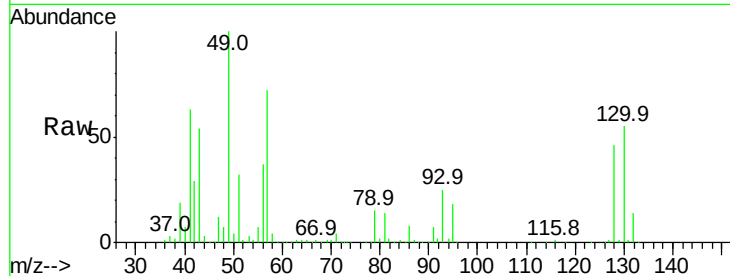
130 60.

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.285 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.02 min

Lab File: VL038166.D

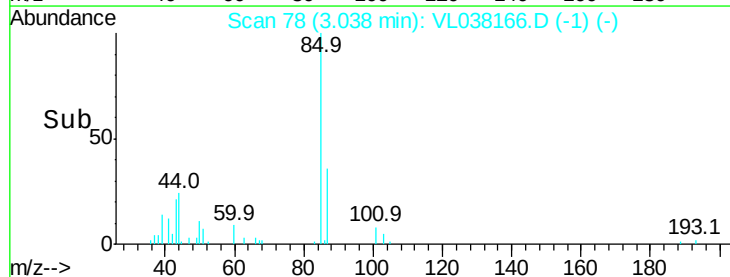
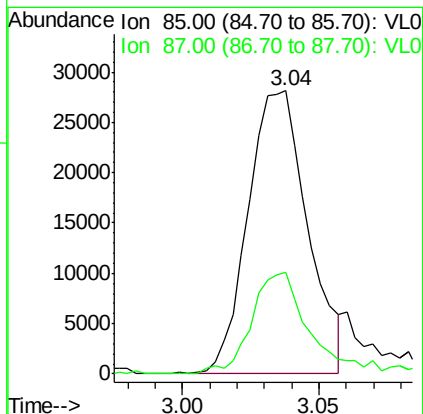
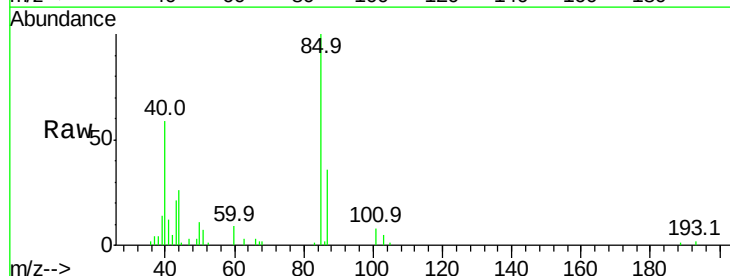
Acq: 14 Dec 2021 14:49

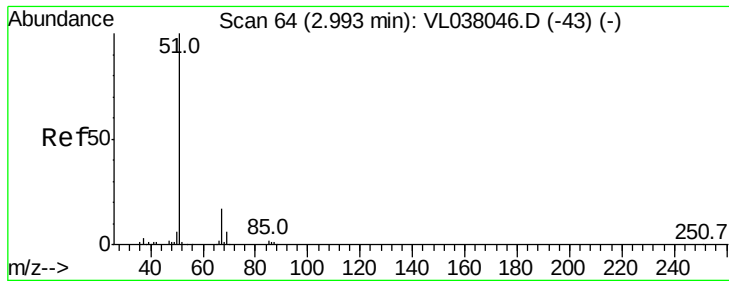
Tgt Ion: 85 Resp: 42815

Ion Ratio Lower Upper

85 100

87 36.1 25.8 38.6



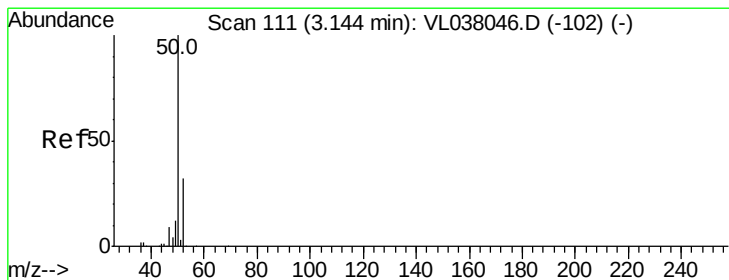
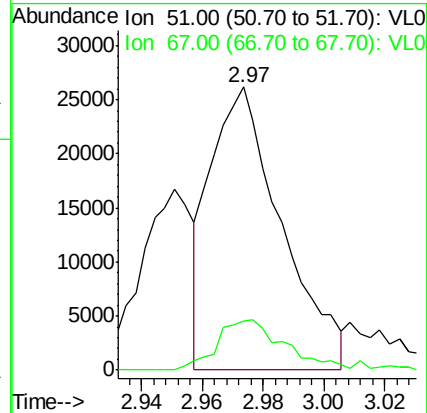
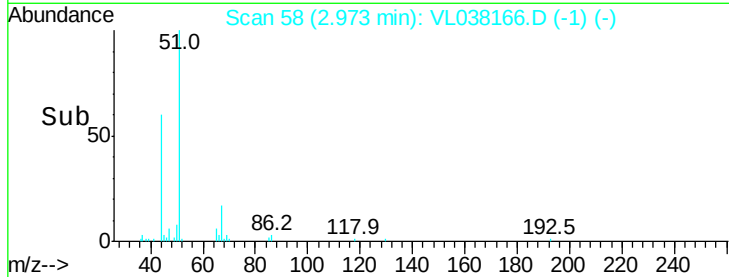
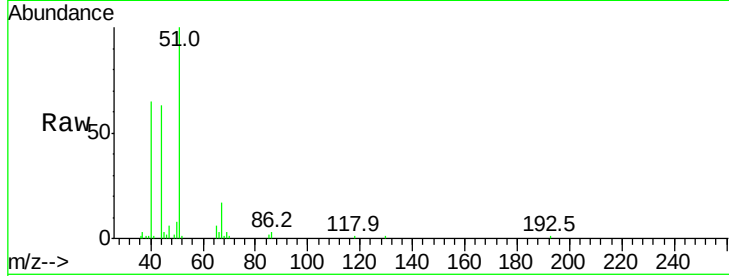


#3
Chlorodifluoromethane
Concen: 0.222 ppbv m
RT: 2.97
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 14:49

Tot Ion:
Ion Ratio
51 100
67 18.

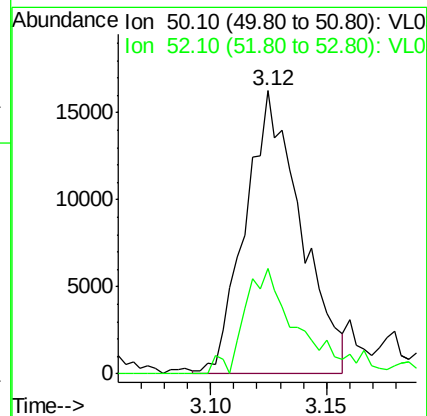
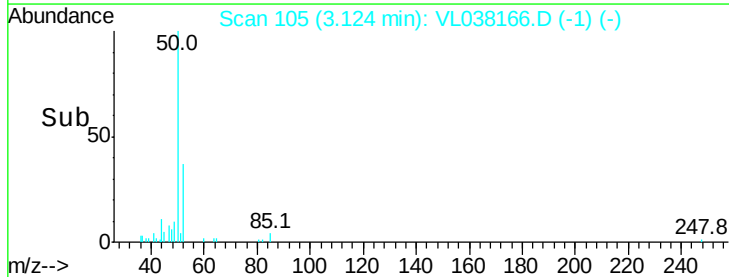
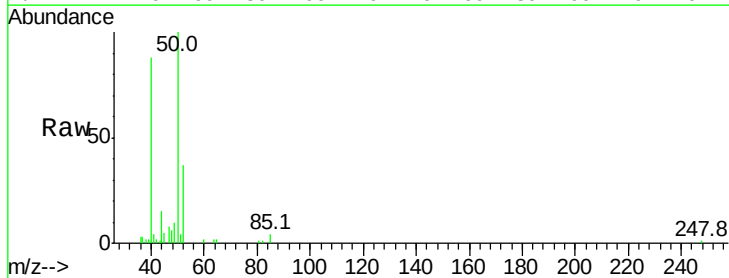
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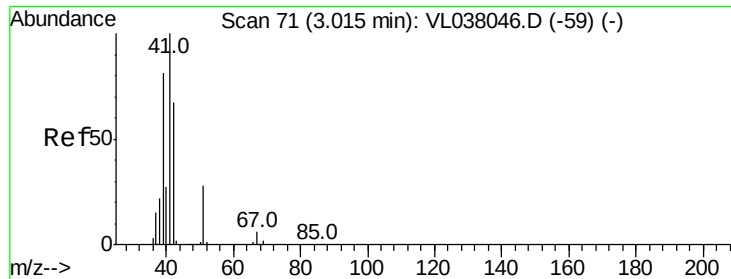
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#4
Chloromethane
Concen: 0.418 ppbv
RT: 3.12 min Scan# 105
Delta R.T. -0.02 min
Lab File: VL038166.D
Acq: 14 Dec 2021 14:49

Tgt Ion: 50 Resp: 27200
Ion Ratio Lower Upper
50 100
52 37.8 25.4 38.0





#9

Propene

Concen: 0.620 ppbv m

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Dec 2021 14:49

Tot Ion:

Ion Ratio

41 100

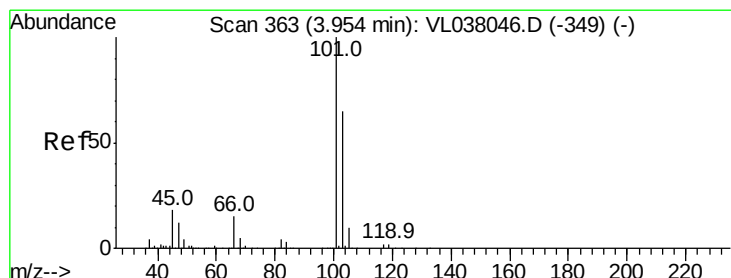
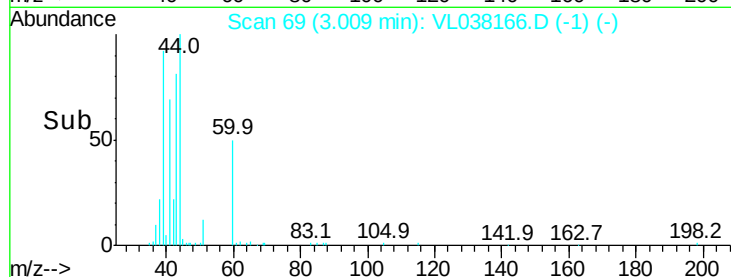
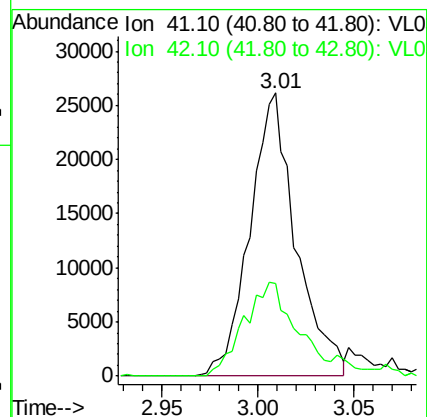
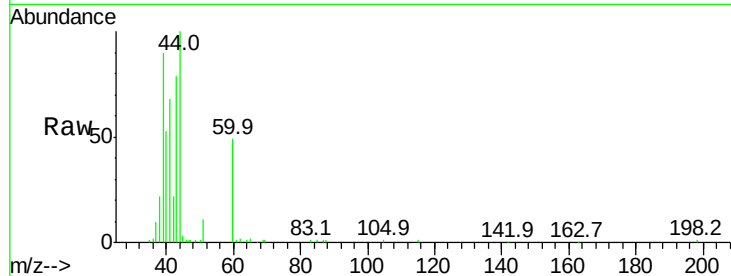
42 83.

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.210 ppbv

RT: 3.93 min Scan# 354

Delta R.T. -0.03 min

Lab File: VL038166.D

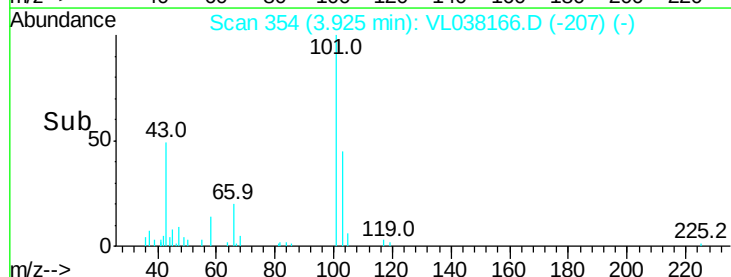
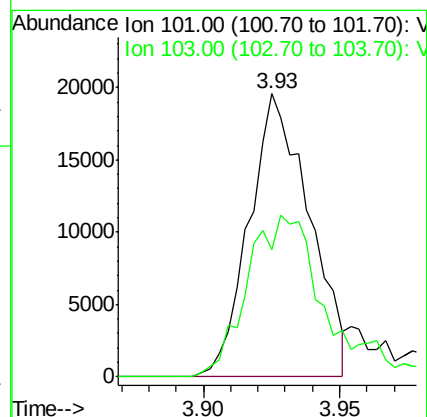
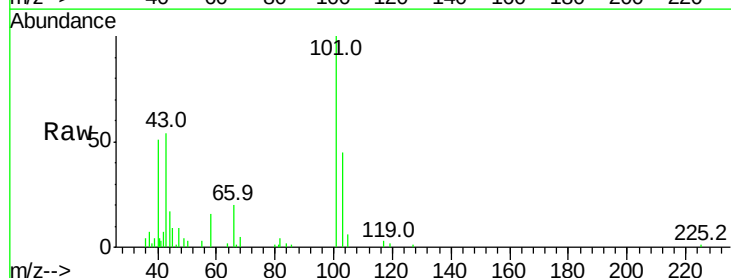
Acq: 14 Dec 2021 14:49

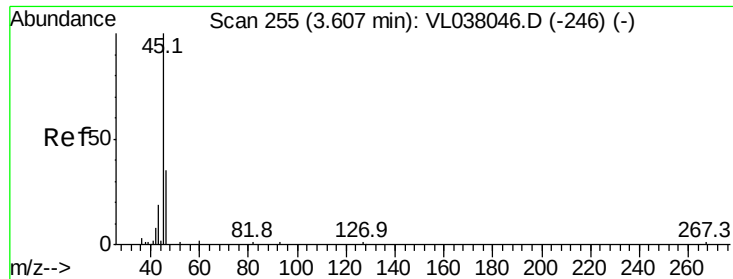
Tgt Ion:101 Resp: 29992

Ion Ratio Lower Upper

101 100

103 45.0 51.8 77.6#



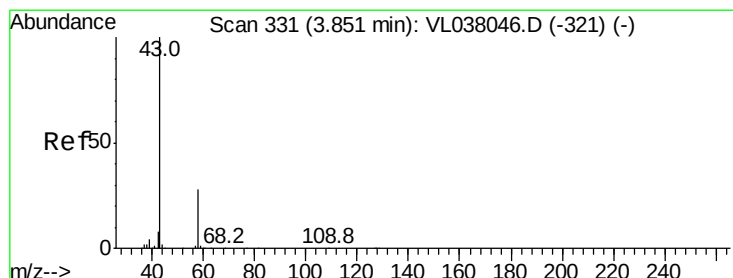
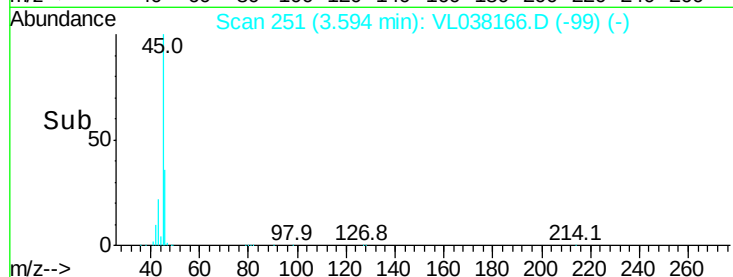
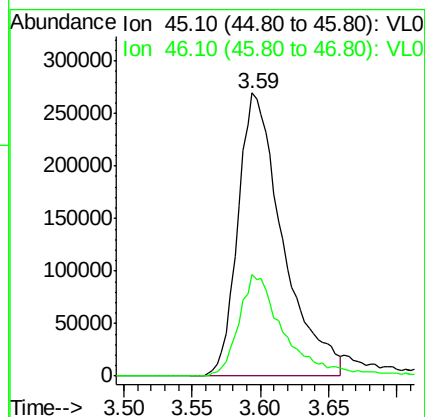
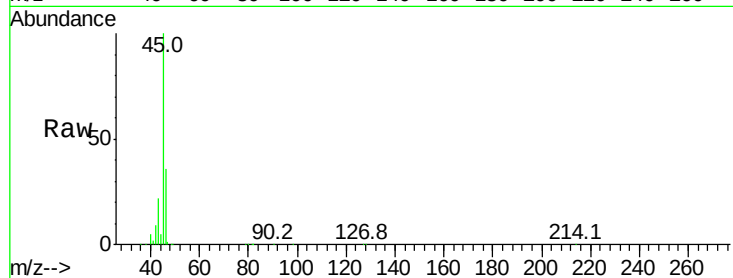


#13
Ethanol
Concen: 90.707 ppbv
RT: 3.59
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 14:49

Tot Ion:
Ion Ratio
45 100
46 36.

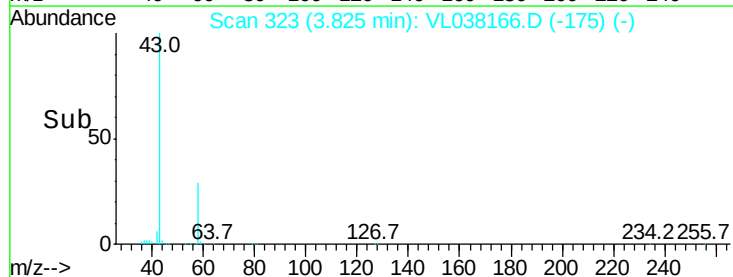
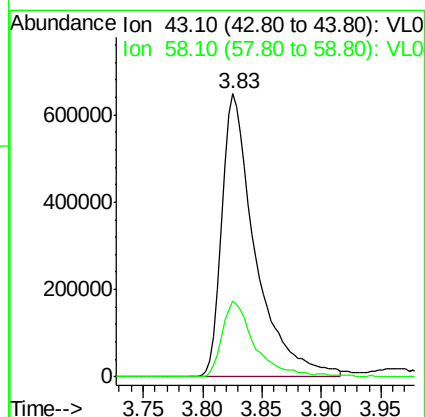
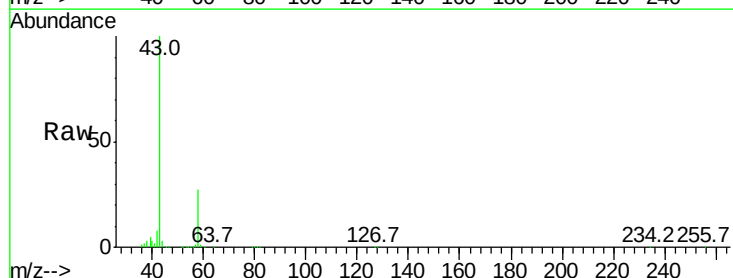
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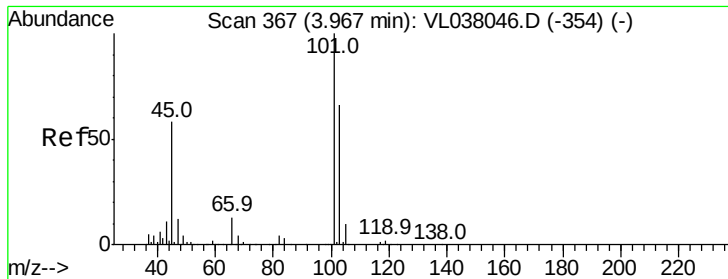
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021



#15
Acetone
Concen: 15.976 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.03 min
Lab File: VL038166.D
Acq: 14 Dec 2021 14:49

Tgt Ion: 43 Resp: 1259970
Ion Ratio Lower Upper
43 100
58 27.2 22.4 33.6





#19

Isopropyl Alcohol

Concen: 2.287 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 14:49

Tot Ion:

Ion Ratio

45 100

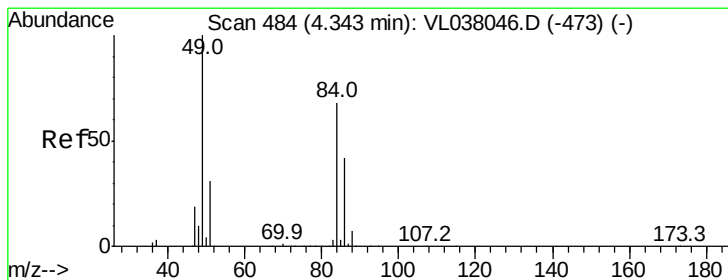
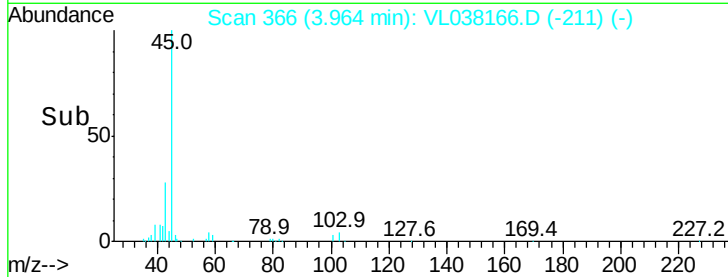
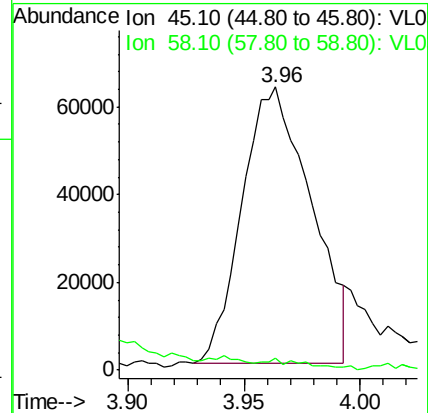
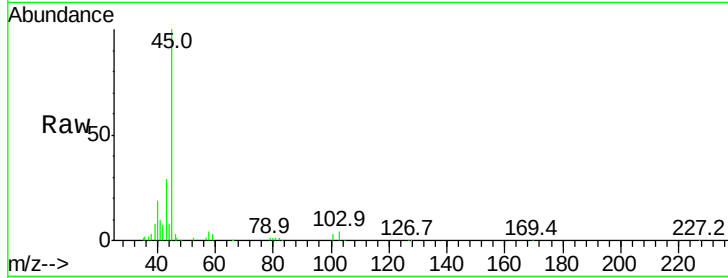
58 263.

Manual Integrations

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#20

Methylene Chloride

Concen: 149.980 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL038166.D

Acq: 14 Dec 2021 14:49

Tgt Ion: 84 Resp: 6625483

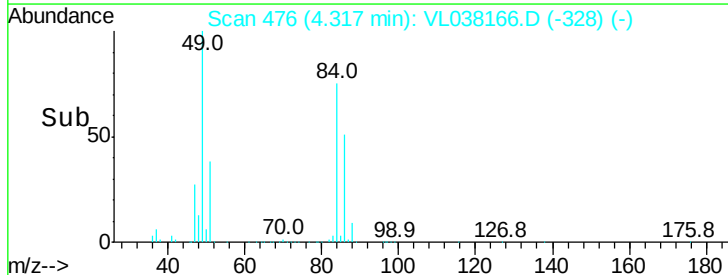
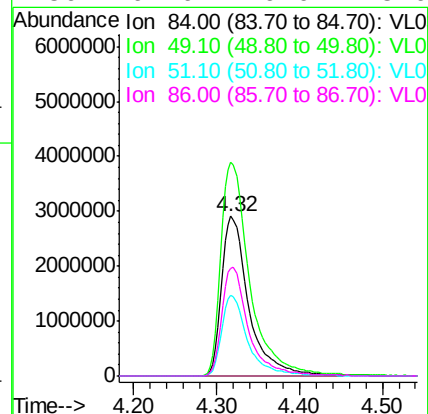
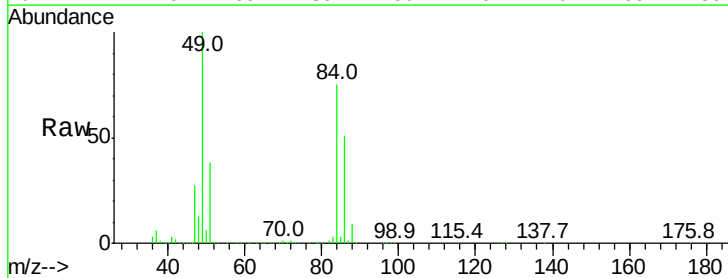
Ion Ratio Lower Upper

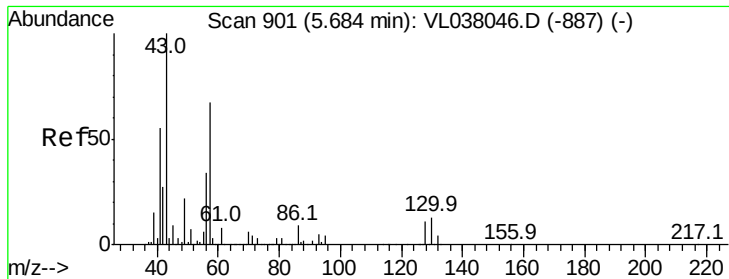
84 100

49 133.7 118.2 177.2

51 50.7 36.8 55.2

86 67.6 49.0 73.6





#26

Hexane

Concen: 37.205 ppbv

RT: 5.66 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Dec 2021 14:49

Tot Ion:

Ion Ratio

57 100

41 87.

43 71.

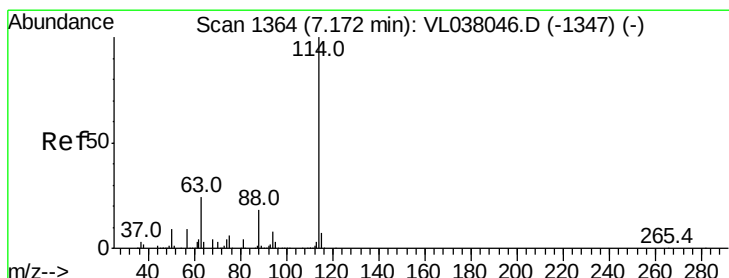
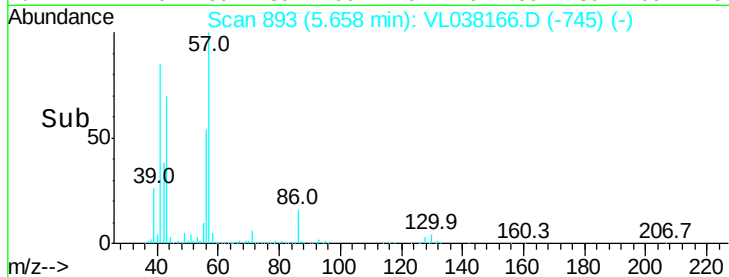
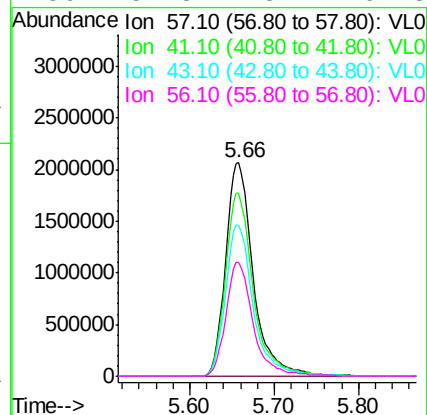
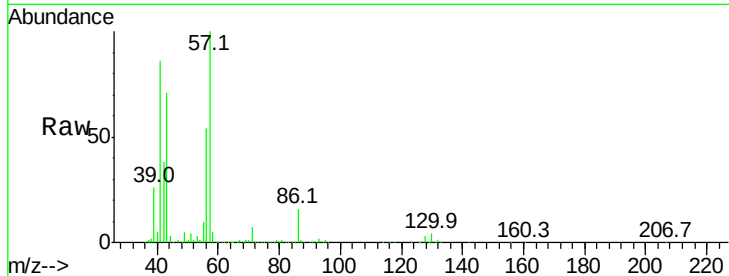
56 52.8

Manual Integrations

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. -0.04 min

Lab File: VL038166.D

Acq: 14 Dec 2021 14:49

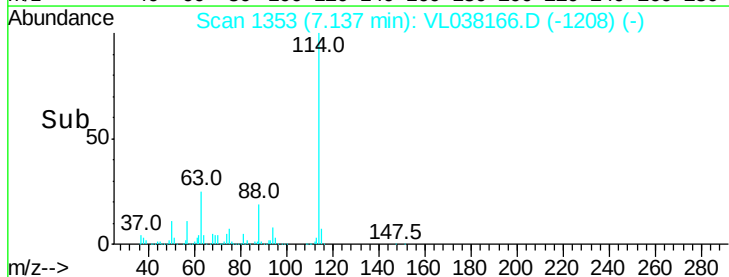
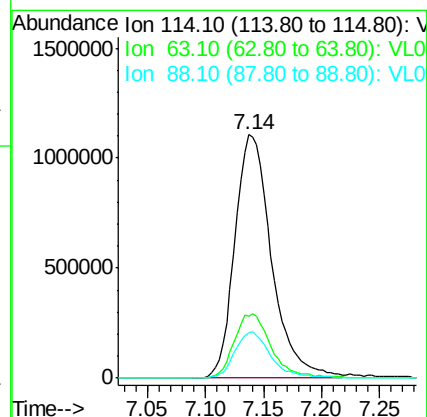
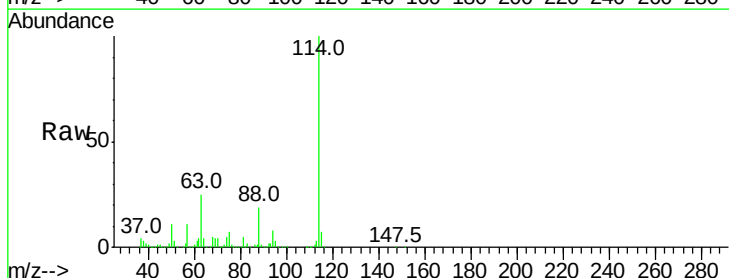
Tgt Ion:114 Resp: 2442959

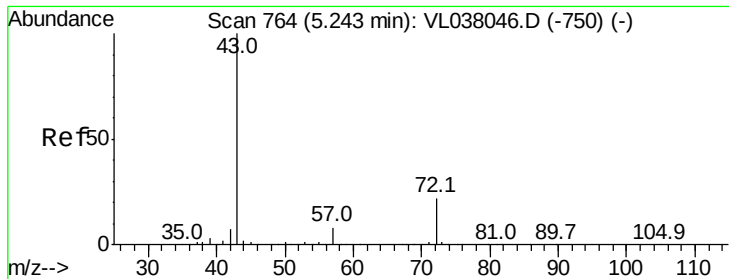
Ion Ratio Lower Upper

114 100

63 26.9 19.7 29.5

88 18.9 14.4 21.6



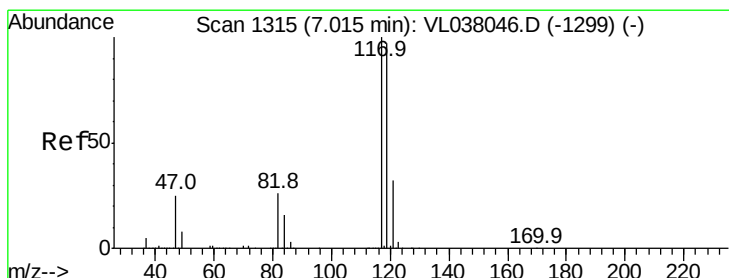
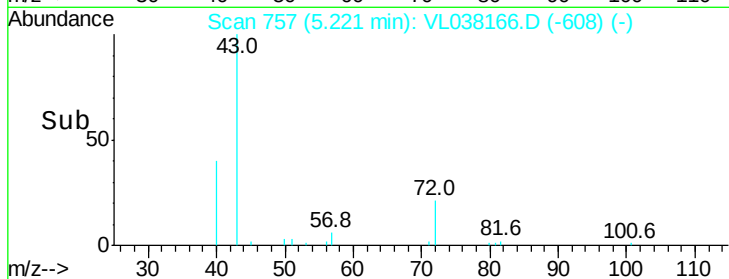
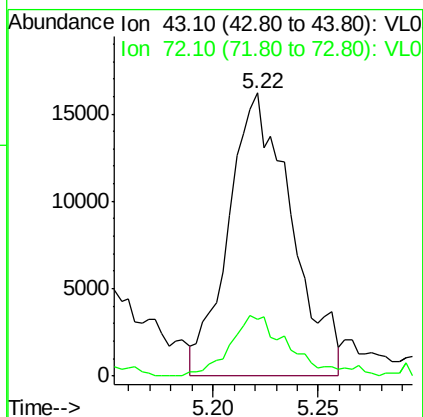
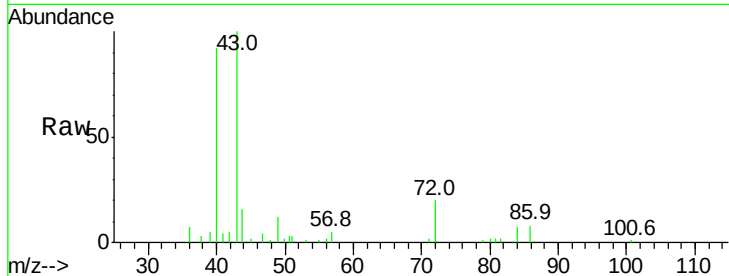


#34
2-Butanone
Concen: 0.341 ppbv m
RT: 5.22
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 14:49

Tot Ion:
Ion Ratio
43 100
72 10.

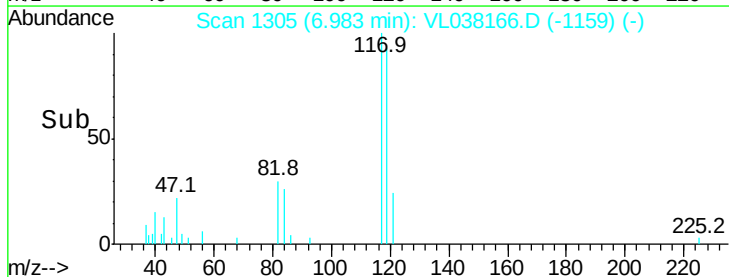
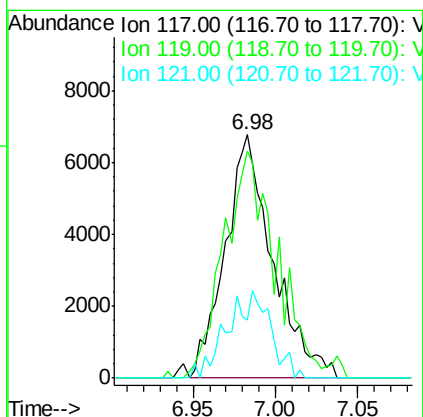
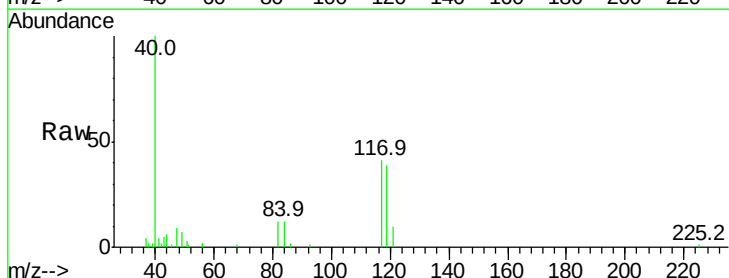
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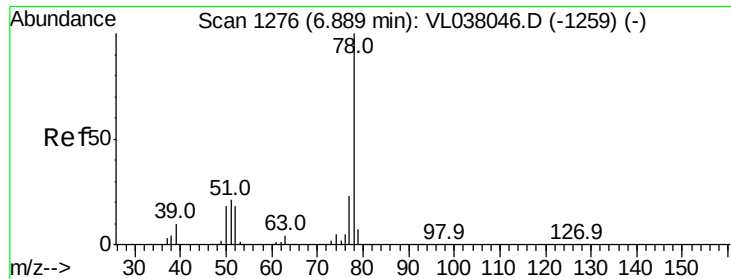
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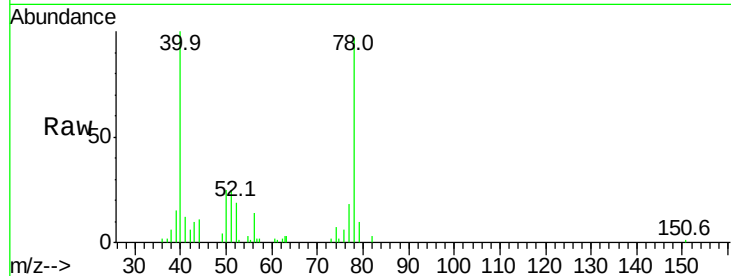
#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 6.98 min Scan# 1305
Delta R.T. -0.03 min
Lab File: VL038166.D
Acq: 14 Dec 2021 14:49

Tgt Ion:117 Resp: 13685
Ion Ratio Lower Upper
117 100
119 93.4 77.7 116.5
121 24.0 25.6 38.4#





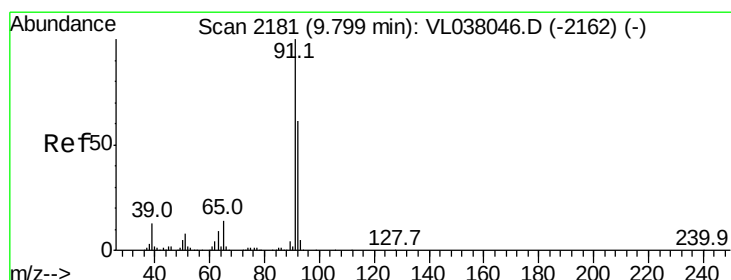
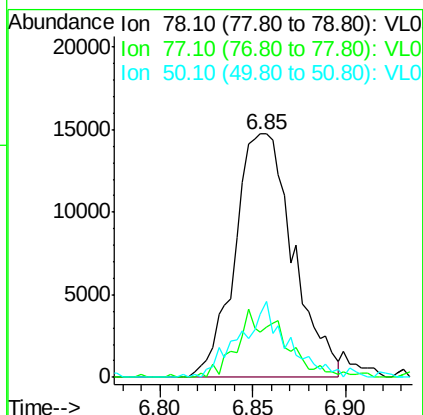
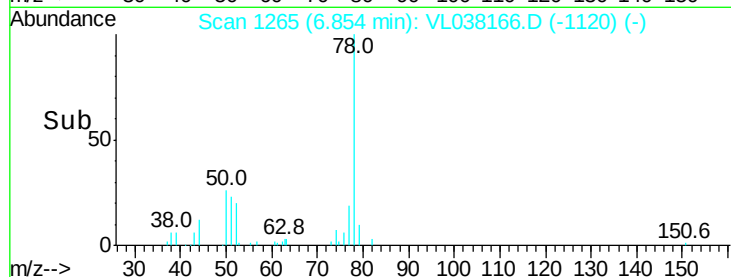
#36
Benzene
Concen: 0.132 ppbv
RT: 6.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Dec 2021 14:49



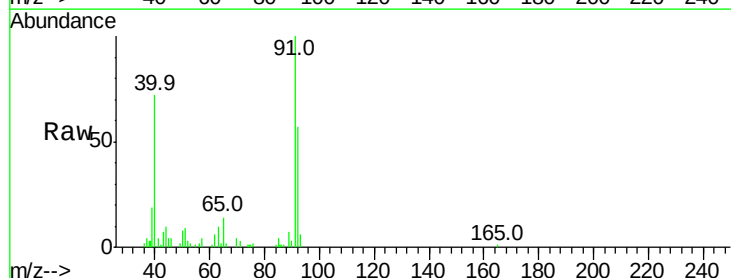
Tot Ion:
Ion Ratio
78 100
77 18.
50 25.

Manual Integrations
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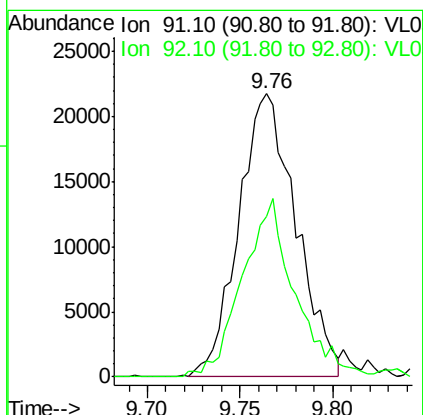
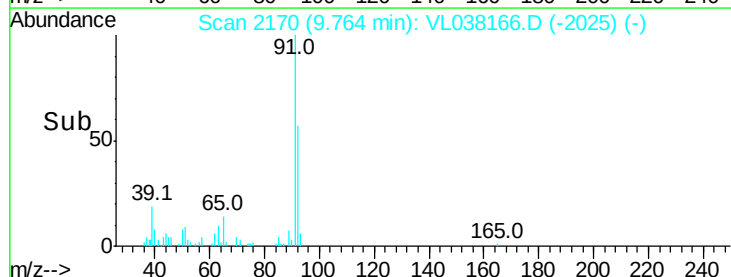
Reviewed By :Amit Patel 12/15/2021
Supervised By :Semsettin Yesilyurt 12/16/2021

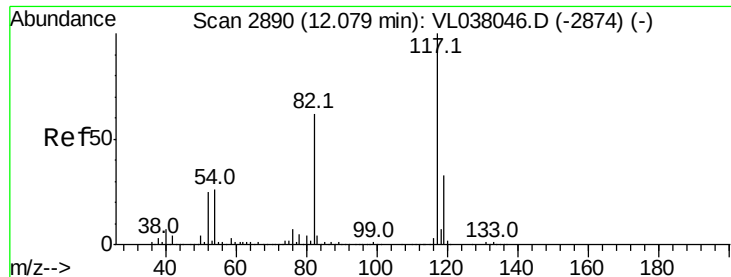


#53
Toluene
Concen: 0.166 ppbv
RT: 9.76 min Scan# 2170
Delta R.T. -0.04 min
Lab File: VL038166.D
Acq: 14 Dec 2021 14:49



Tgt Ion: 91 Resp: 46605
Ion Ratio Lower Upper
91 100
92 59.7 49.7 74.5



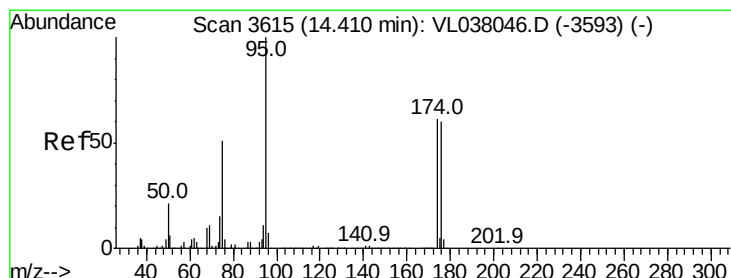
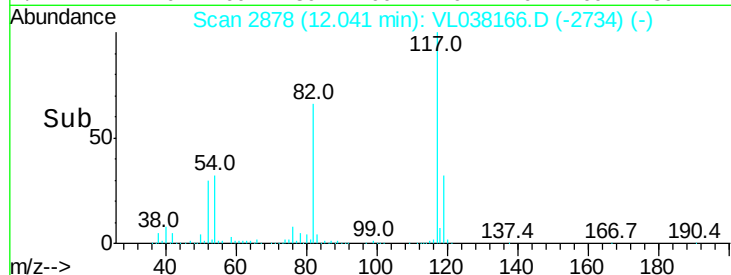
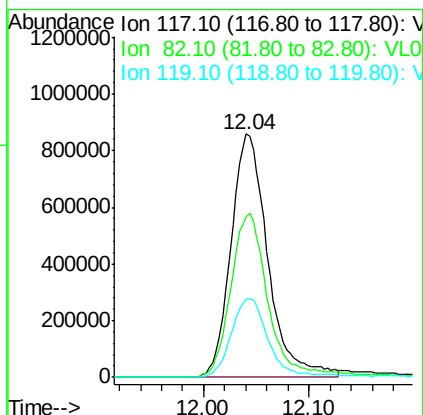
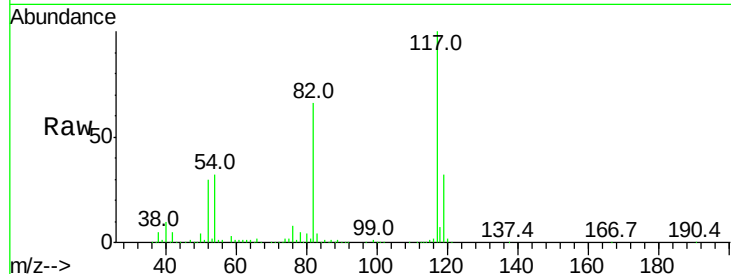


#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.04 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14:49

Tot Ion: 1
 Ion Ratio
 117 100
 82 70.0
 119 33.0

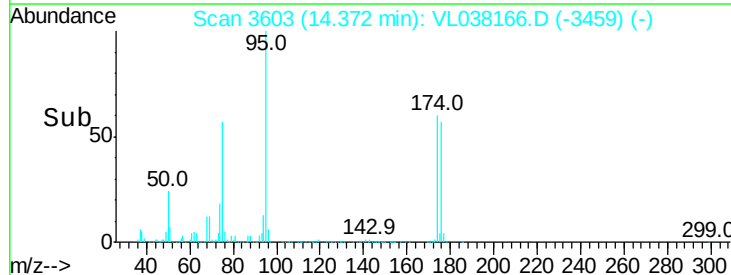
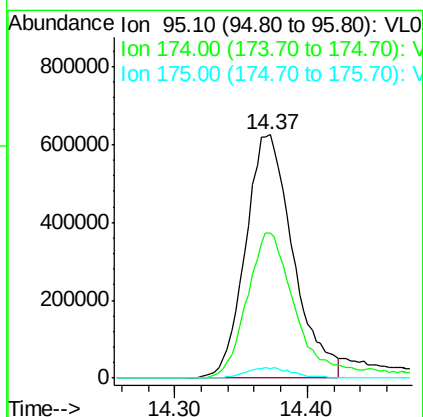
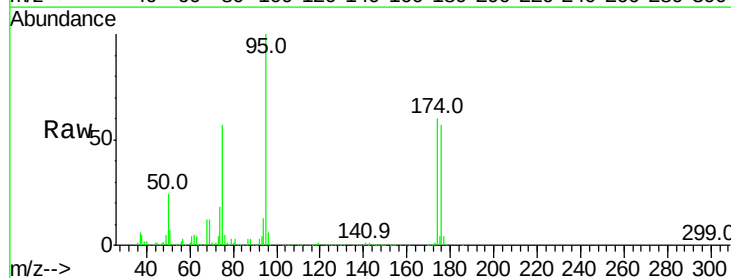
Manual Integrations
 APPROVED

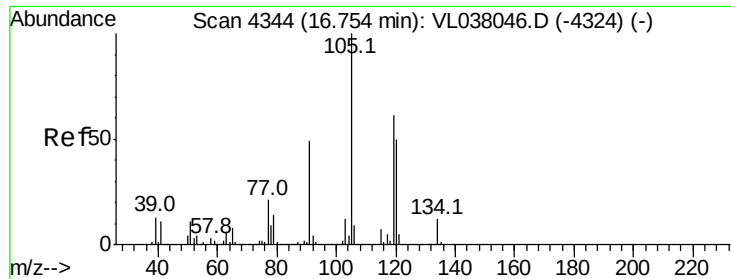
Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021



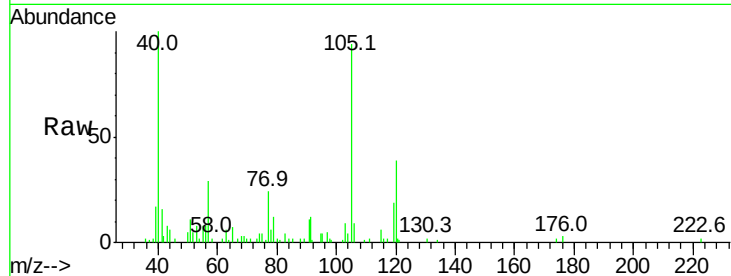
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.370 ppbv
 RT: 14.37 min Scan# 3603
 Delta R.T.: -0.04 min
 Lab File: VL038166.D
 Acq: 14 Dec 2021 14:49

Tgt Ion: 95 Resp: 1560025
 Ion Ratio Lower Upper
 95 100
 174 66.2 53.1 79.7
 175 4.5 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.121 ppbv m
 RT: 16.71
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Dec 2021 14.49



Tot Ion:1
 Ion Rati
 105 100
 120 41.
 91 12.
 77 25.3 16.6 25.0#

Manual Integrations APPROVED

Reviewed By :Amit Patel 12/15/2021
 Supervised By :Semsettin Yesilyurt 12/16/2021

