

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012622\
 Data File : VL038288.D
 Acq On : 26 Jan 2022 14:49
 Operator : SY/AP
 Sample : N1268-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/27/2022
 Supervised By : Mahesh Dadoda 01/28/2022

Quant Time: Jan 27 03:38:31 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL012422A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	791917	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	2149944	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	1837015	10.00	ppbv	-0.03

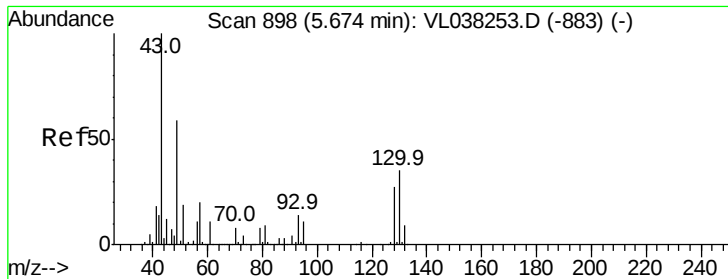
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.38 95 1430169 10.26 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.60%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.04	85	71306	0.423	ppbv	92
3) Chlorodifluoromethane	2.98	51	34715	0.220	ppbv #	90
4) Chloromethane	3.14	50	12331m	0.227	ppbv	
7) Chloroethane	3.56	64	5367	0.294	ppbv #	79
9) Propene	3.01	41	93888m	1.829	ppbv	
10) Heptane	8.10	43	966642	7.321	ppbv	98
11) Trichlorofluoromethane	3.94	101	26384	0.201	ppbv	100
13) Ethanol	3.60	45	43094	7.822	ppbv	86
15) Acetone	3.84	43	512872	7.347	ppbv #	64
19) Isopropyl Alcohol	3.97	45	22690	0.520	ppbv #	91
20) Methylene Chloride	4.33	84	29781m	0.733	ppbv	
23) Vinyl Acetate	5.05	43	1327891	13.083	ppbv #	92
26) Hexane	5.67	57	2360325	25.963	ppbv #	40
29) Chloroform	5.73	83	38195m	0.257	ppbv	
34) 2-Butanone	5.23	43	174054m	2.476	ppbv	
35) Carbon Tetrachloride	6.99	117	8359m	0.055	ppbv	
36) Benzene	6.87	78	23306	0.123	ppbv #	75
51) 2-Hexanone	10.10	43	159854m	2.894	ppbv	
52) Tetrachloroethene	11.19	164	27592	0.421	ppbv #	85
53) Toluene	9.78	91	49589	0.236	ppbv	100
58) Ethyl Benzene	12.68	91	29237m	0.108	ppbv	
59) m/p-Xylene	12.94	91	68975m	0.299	ppbv	
60) o-Xylene	13.66	91	29745m	0.139	ppbv	
61) Styrene	13.50	104	13155m	0.132	ppbv	
69) p-Isopropyltoluene	17.62	119	35578m	0.142	ppbv	
73) 1,3,5-Trimethylbenzene	15.97	105	42627	0.212	ppbv	90
74) 1,2,4-Trimethylbenzene	16.73	105	99952	0.471	ppbv #	74

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-1

Acq: 26 Jan 2022 14:49

Tot Ion:

Ion Ratio

49 100

128 47.

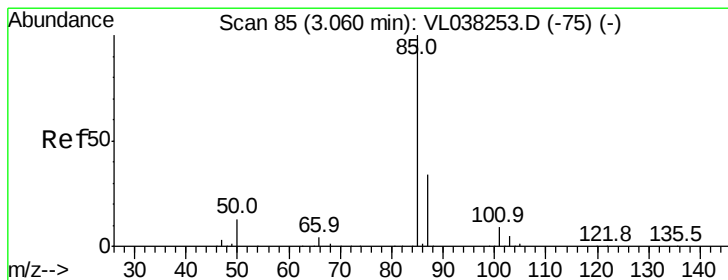
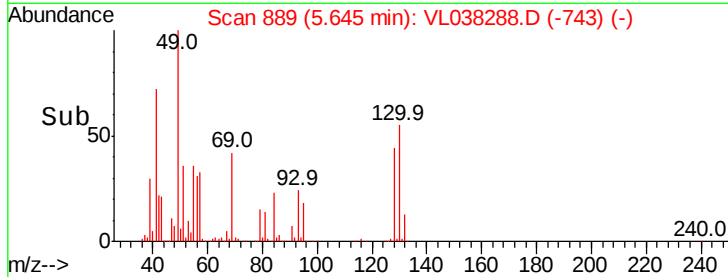
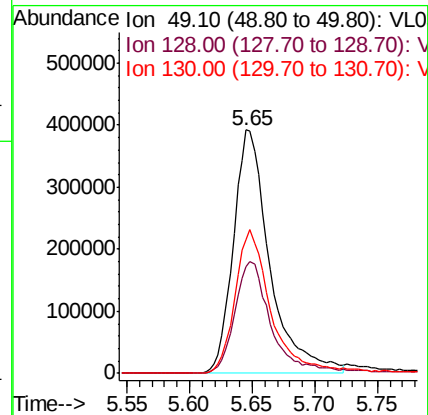
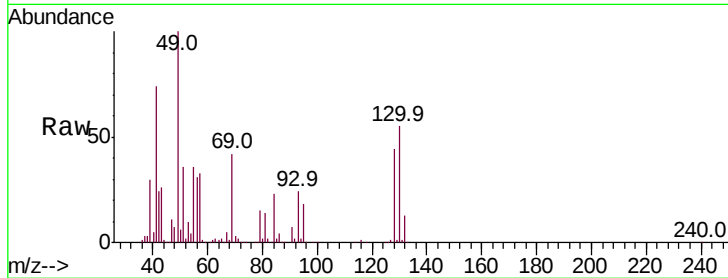
130 59.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/27/2022

Supervised By :Mahesh Dadoda 01/28/2022



#2

Dichlorodifluoromethane

Concen: 0.423 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.02 min

Lab File: VL038288.D

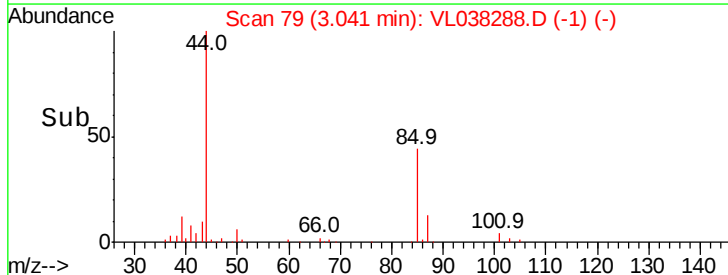
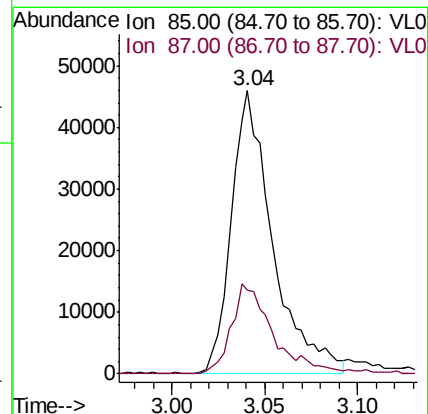
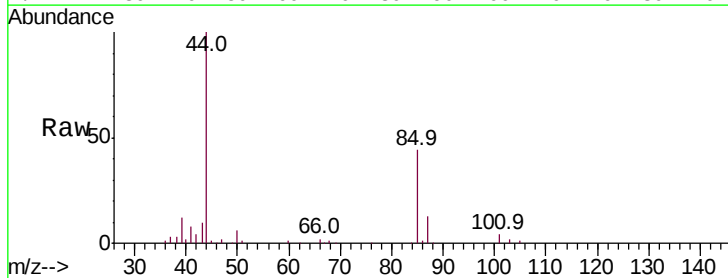
Acq: 26 Jan 2022 14:49

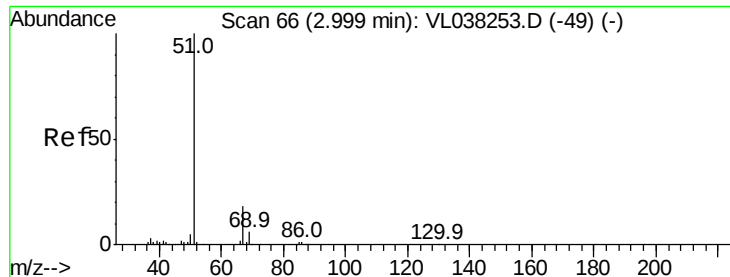
Tgt Ion: 85 Resp: 71306

Ion Ratio Lower Upper

85 100

87 29.5 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.220 ppbv

RT: 2.98 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 26 Jan 2022 14:49 SV-1

Tot Ion:

Ion Ratio

51 100

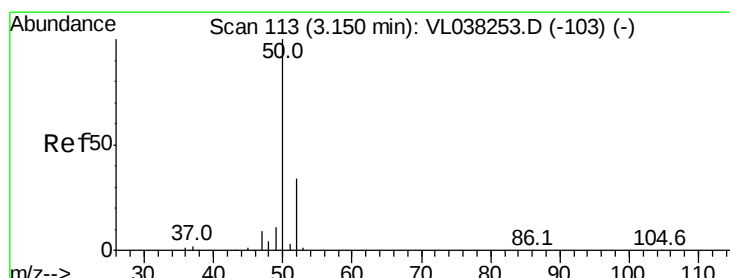
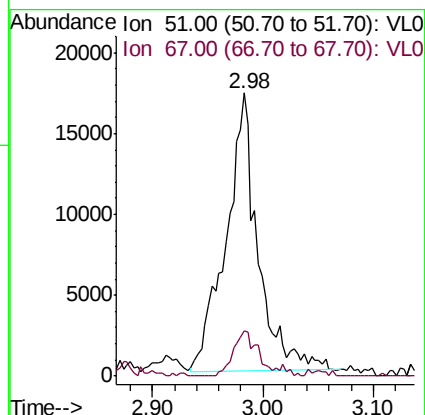
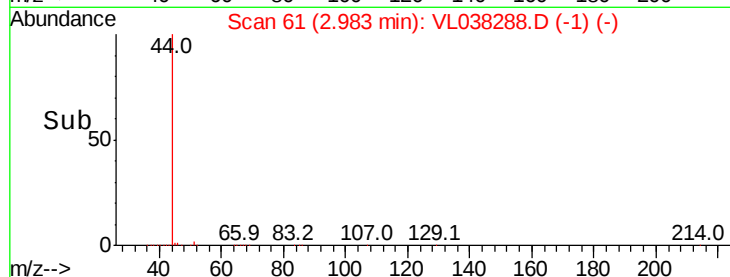
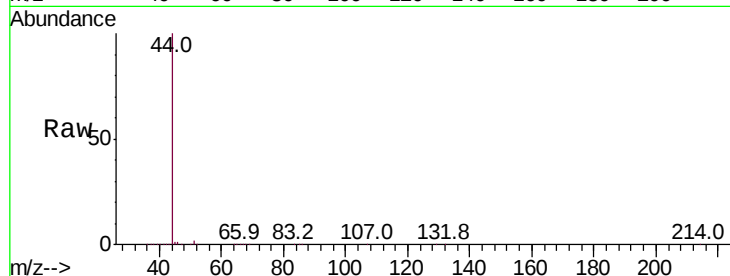
67 13.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/27/2022

Supervised By :Mahesh Dadoda 01/28/2022



#4

Chloromethane

Concen: 0.227 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL038288.D

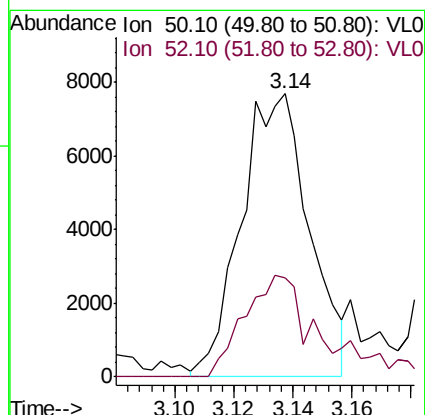
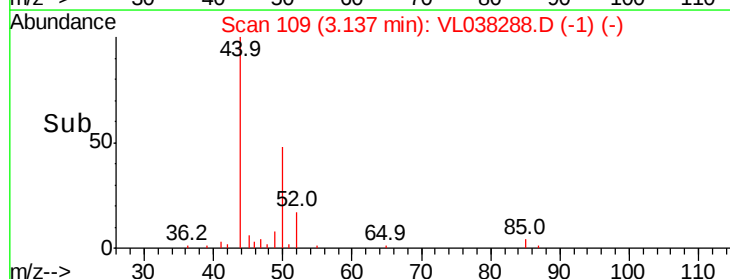
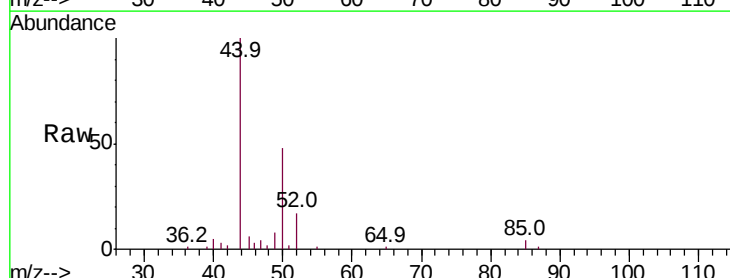
Acq: 26 Jan 2022 14:49

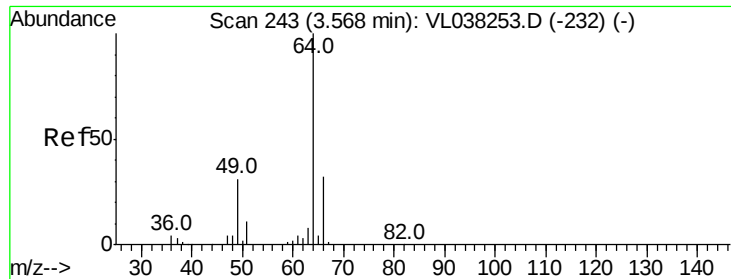
Tgt Ion: 50 Resp: 12331

Ion Ratio Lower Upper

50 100

52 34.8 27.1 40.7





#7

Chloroethane

Concen: 0.294 ppbv

RT: 3.56

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 26 Jan 2022 14:49

Tot Ion:

Ion Ratio

64 100

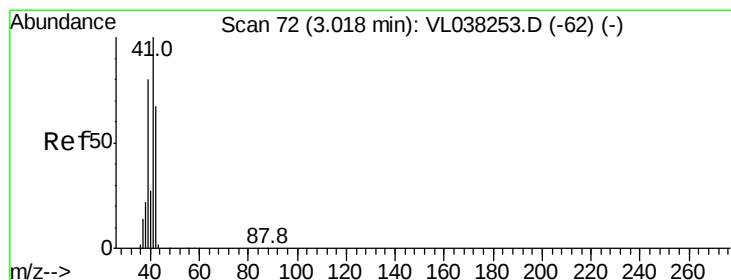
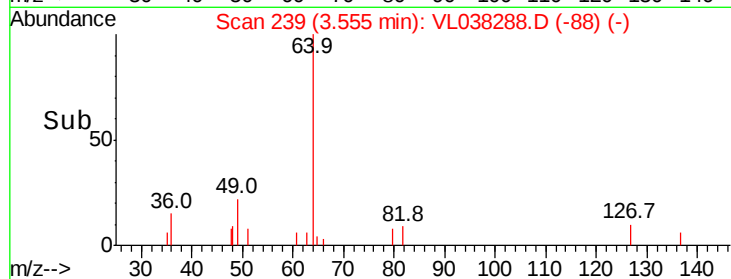
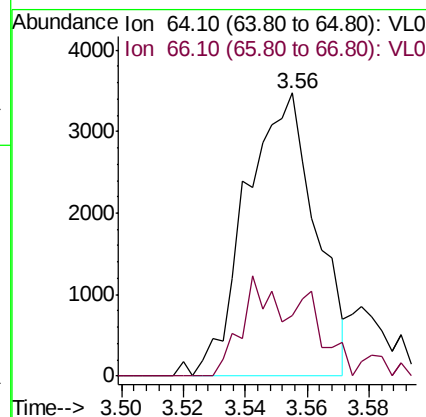
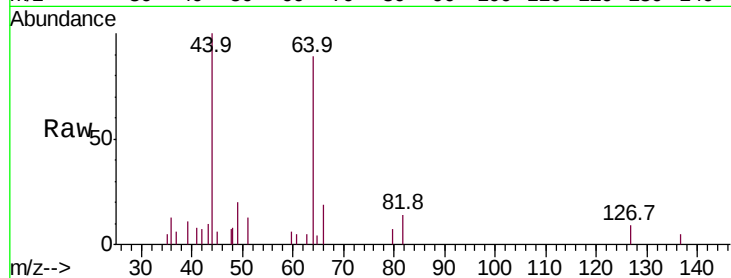
66 20.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/27/2022

Supervised By :Mahesh Dadoda 01/28/2022



#9

Propene

Concen: 1.829 ppbv m

RT: 3.01 min Scan# 69

Delta R.T. -0.01 min

Lab File: VL038288.D

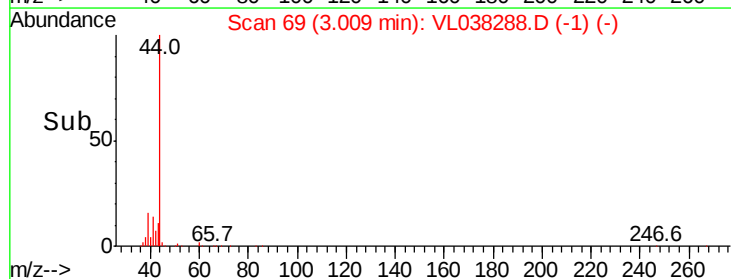
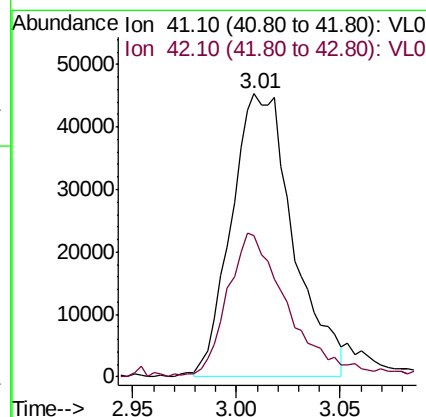
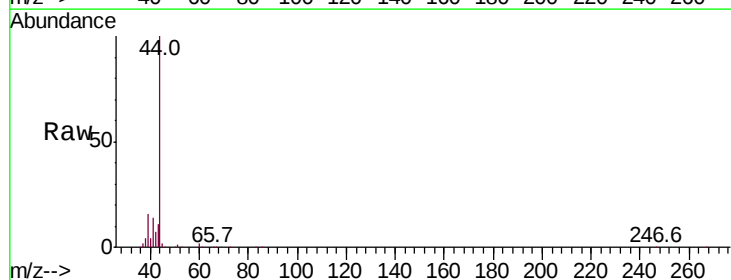
Acq: 26 Jan 2022 14:49

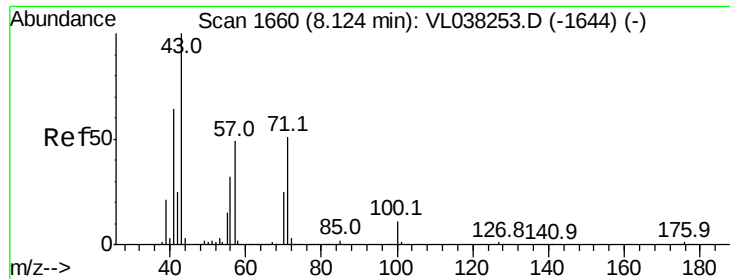
Tgt Ion: 41 Resp: 93888

Ion Ratio Lower Upper

41 100

42 212.5 54.9 82.3#



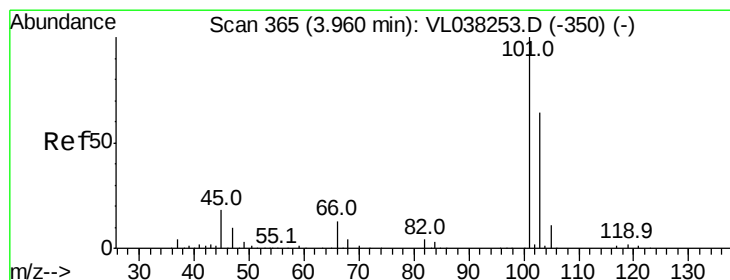
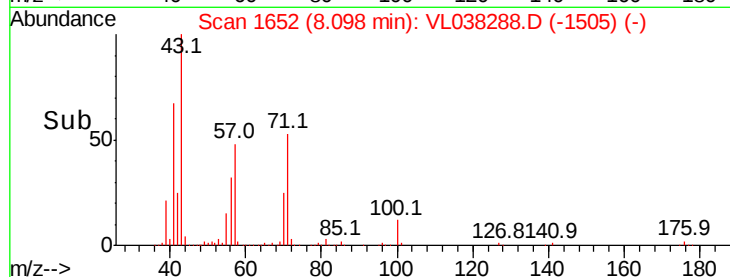
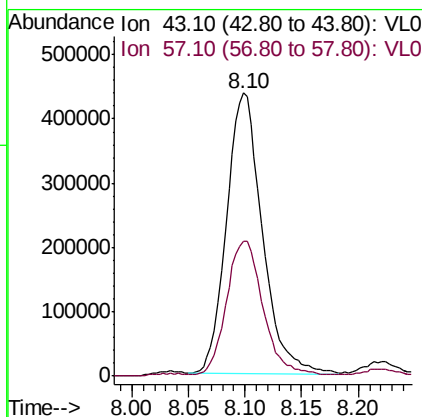
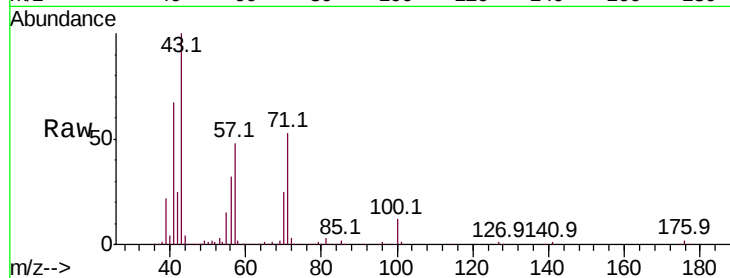


#10
 Heptane
 Concen: 7.321 ppbv
 RT: 8.10
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 SV-1
 Acq: 26 Jan 2022 14:49

Tot Ion:
 Ion Ratio
 43 100
 57 48.

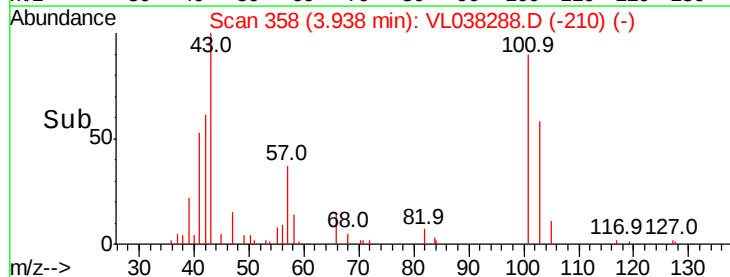
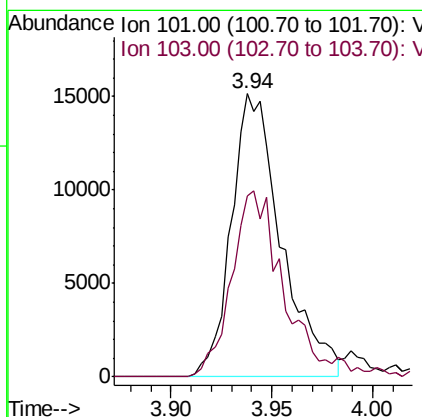
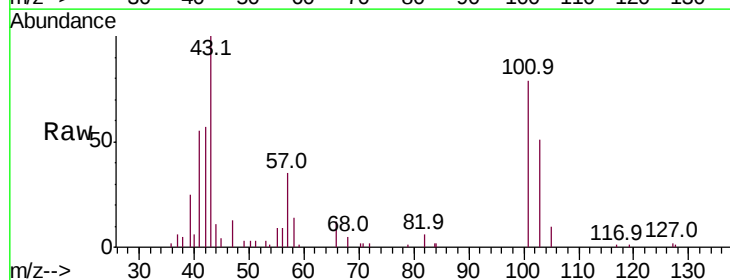
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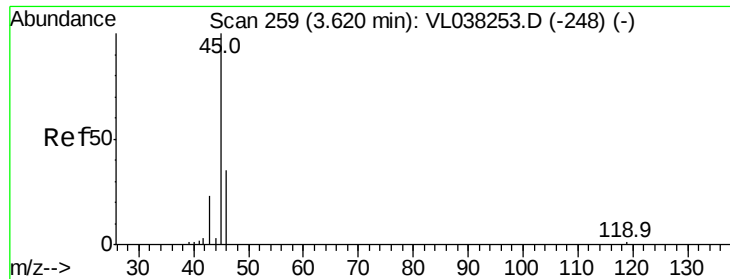
Reviewed By :Semsettin Yesilyurt 01/27/2022
 Supervised By :Mahesh Dadoda 01/28/2022



#11
 Trichlorofluoromethane
 Concen: 0.201 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.02 min
 Lab File: VL038288.D
 Acq: 26 Jan 2022 14:49

Tgt Ion:101 Resp: 26384
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.2 76.8



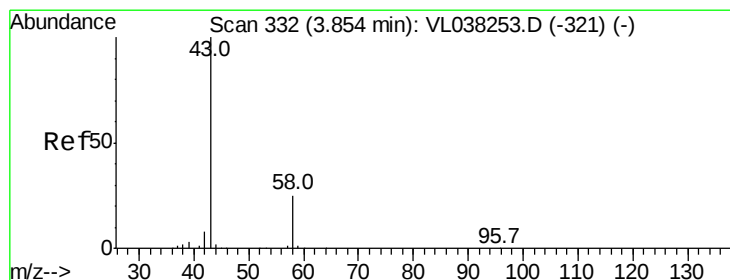
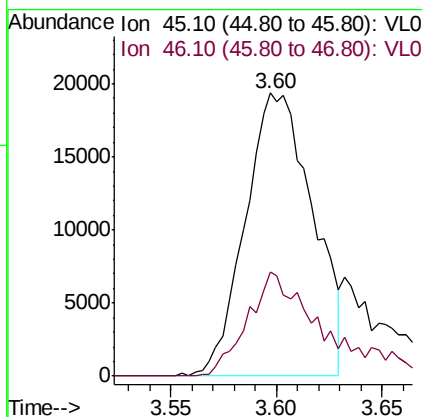
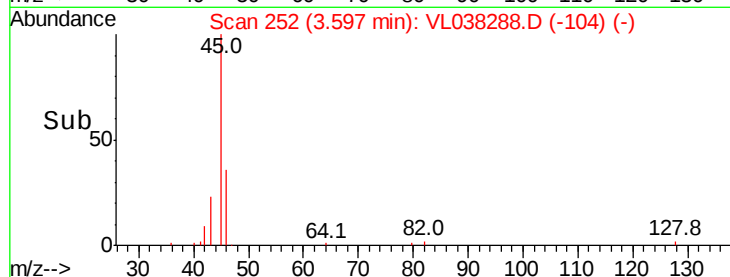
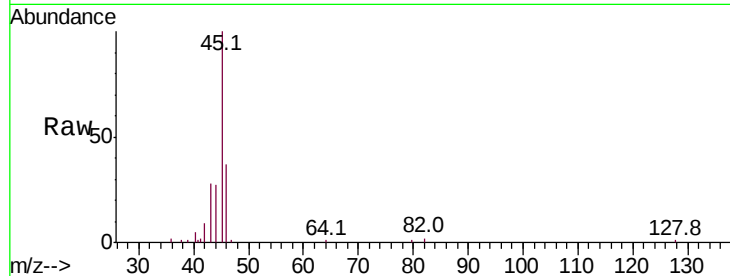


#13
Ethanol
Concen: 7.822 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-1
Acq: 26 Jan 2022 14:49

Tot Ion:
Ion Ratio
45 100
46 46.

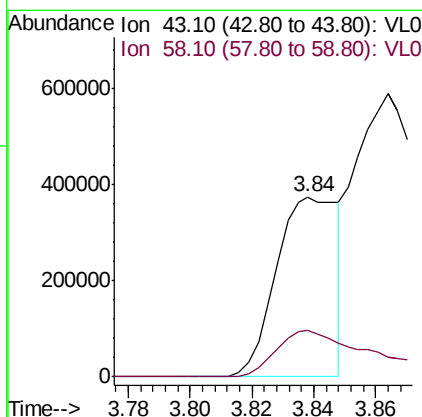
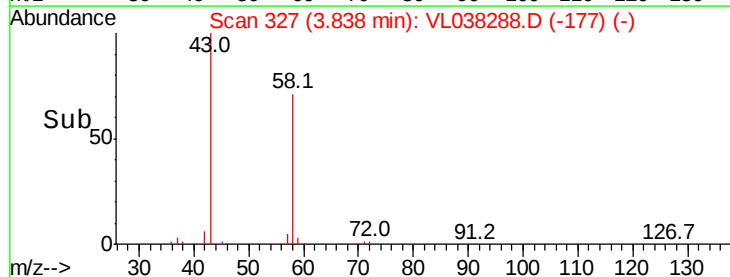
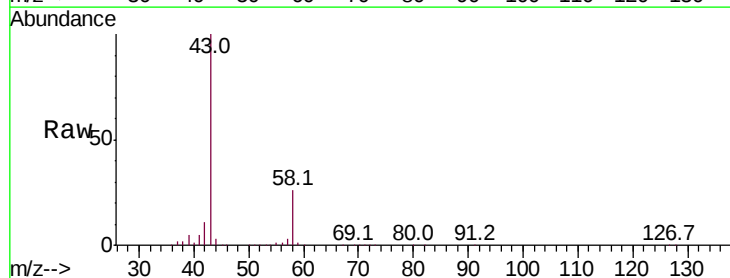
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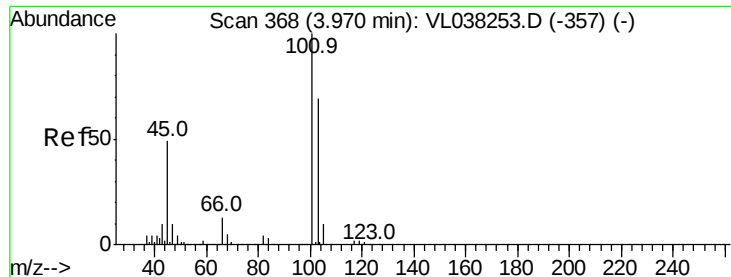
Reviewed By :Semsettin Yesilyurt 01/27/2022
Supervised By :Mahesh Dadoda 01/28/2022



#15
Acetone
Concen: 7.347 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.02 min
Lab File: VL038288.D
Acq: 26 Jan 2022 14:49

Tgt Ion: 43 Resp: 512872
Ion Ratio Lower Upper
43 100
58 45.5 21.5 32.3#





#19

Isopropyl Alcohol

Concen: 0.520 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 26 Jan 2022 14:49 SV-1

Tot Ion:

Ion Ratio

45 100

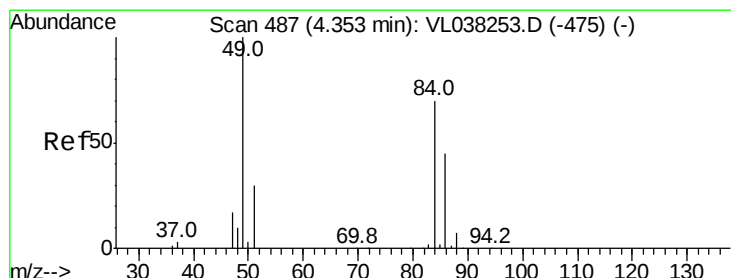
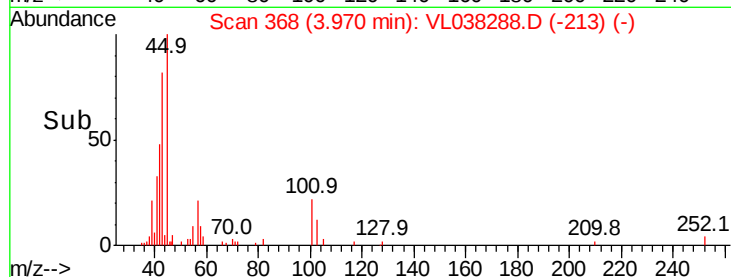
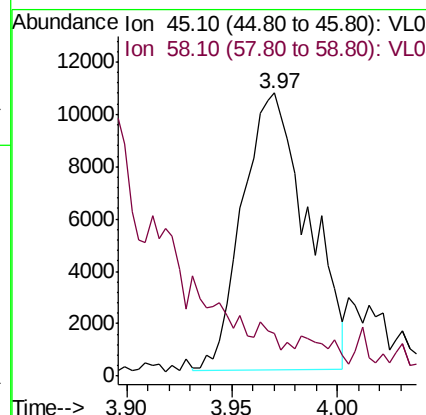
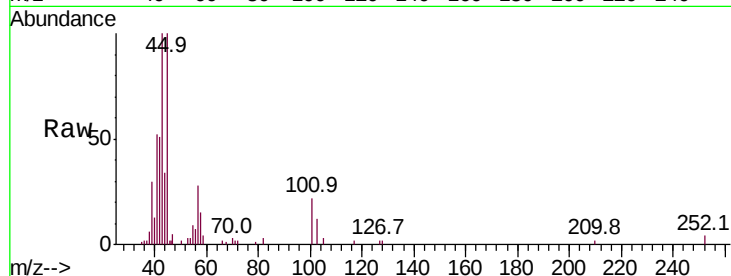
58 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/27/2022

Supervised By :Mahesh Dadoda 01/28/2022



#20

Methylene Chloride

Concen: 0.733 ppbv m

RT: 4.33 min Scan# 479

Delta R.T. -0.03 min

Lab File: VL038288.D

Acq: 26 Jan 2022 14:49

Tgt Ion: 84 Resp: 29781

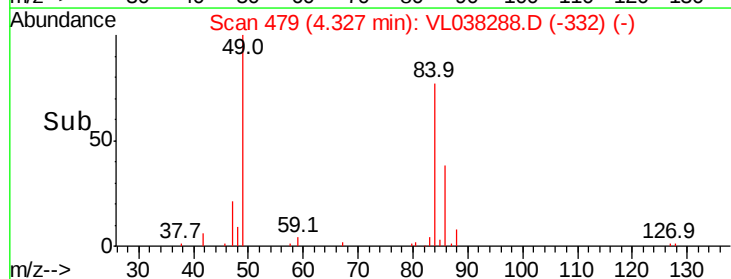
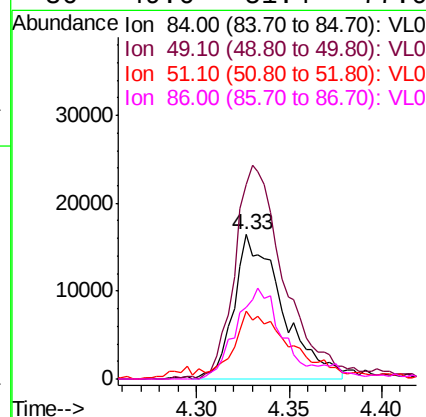
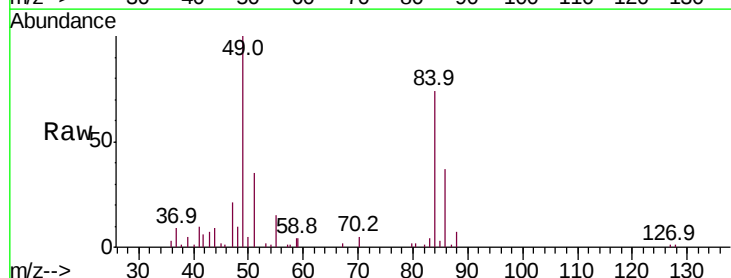
Ion Ratio Lower Upper

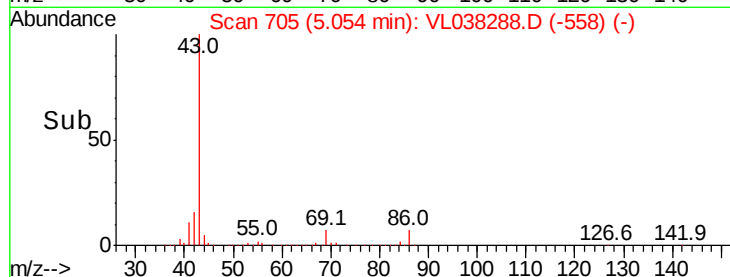
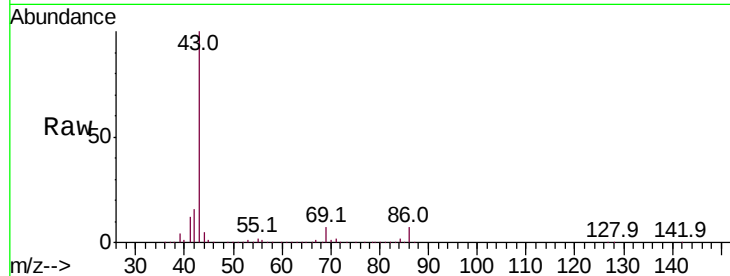
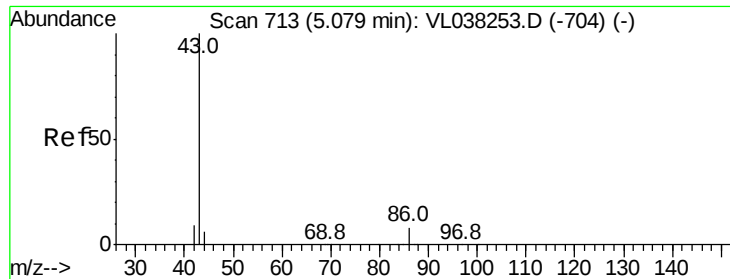
84 100

49 135.4 115.0 172.6

51 47.5 35.0 52.6

86 49.6 51.4 77.0#



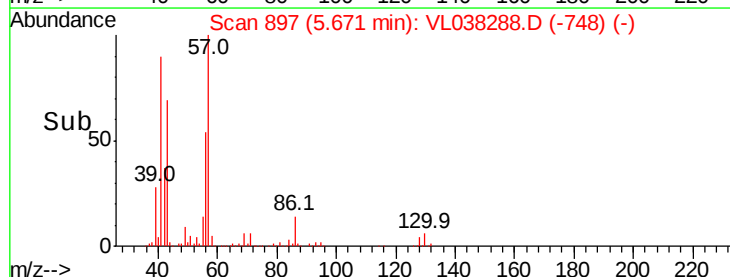
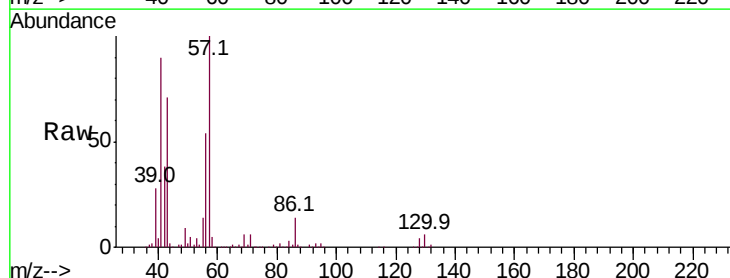
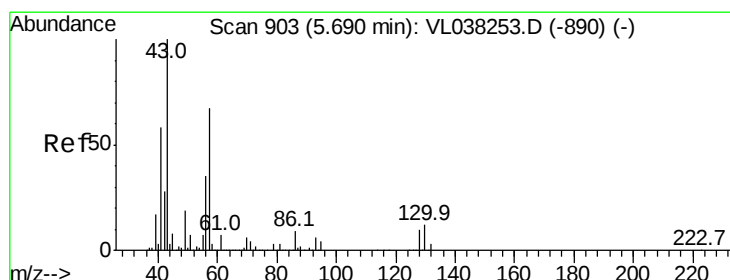
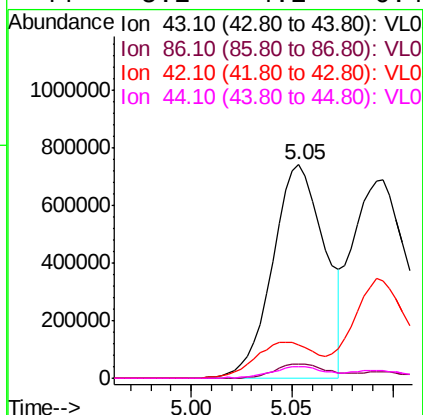


#23
Vinvl Acetate
Concen: 13.083 ppbv
RT: 5.05
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SV-1
Acq: 26 Jan 2022 14:49

Tot Ion:
Ion Ratio
43 100
86 6.
42 15.
44 5.2 4.2 6.4

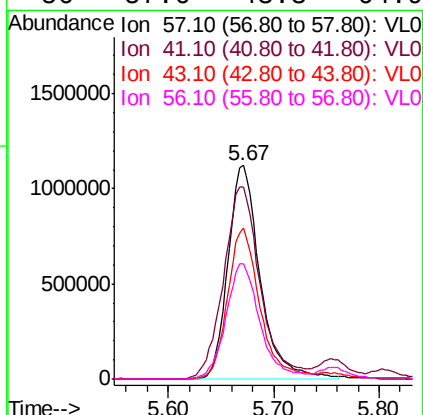
Manual Integrations
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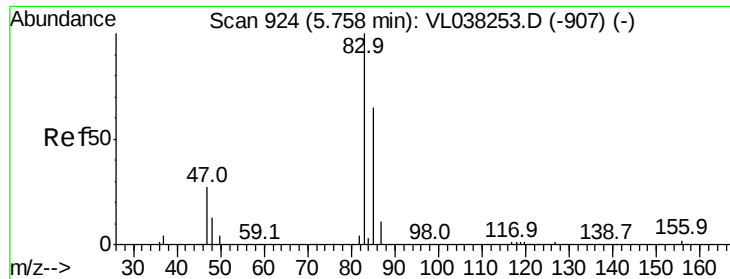
Reviewed By :Semsettin Yesilyurt 01/27/2022
Supervised By :Mahesh Dadoda 01/28/2022



#26
Hexane
Concen: 25.963 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL038288.D
Acq: 26 Jan 2022 14:49

Tgt Ion: 57 Resp: 2360325
Ion Ratio Lower Upper
57 100
41 103.0 72.8 109.2
43 71.1 177.0 265.6#
56 57.6 43.3 64.9





#29

Chloroform

Concen: 0.257 ppbv m

RT: 5.73 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 26 Jan 2022 14:49 SV-1

Tot Ion:

Ion Ratio

83 100

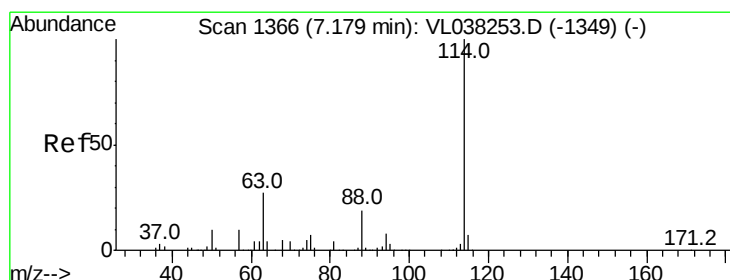
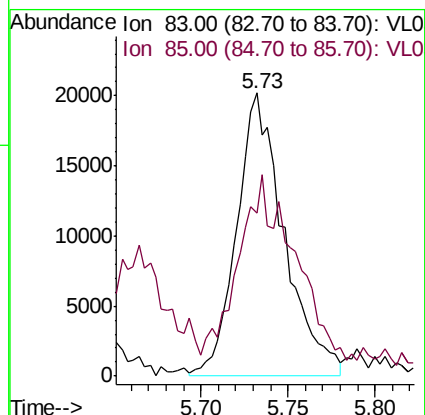
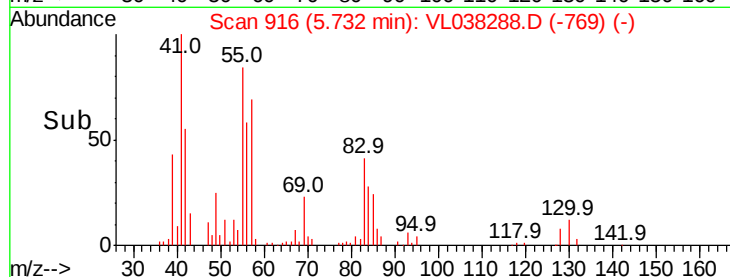
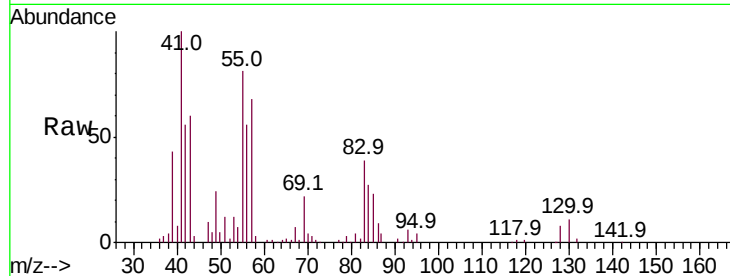
85 57.

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Reviewed By :Semsettin Yesilyurt 01/27/2022

Supervised By :Mahesh Dadoda 01/28/2022



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.03 min

Lab File: VL038288.D

Acq: 26 Jan 2022 14:49

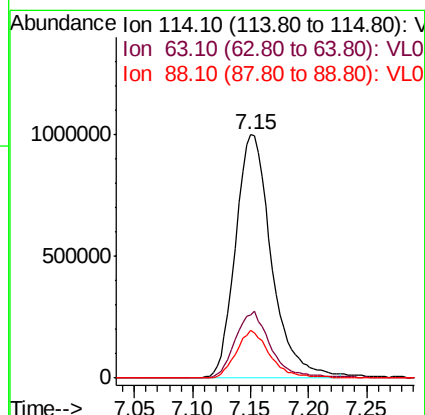
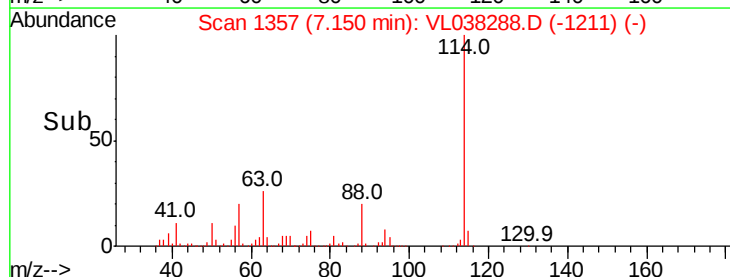
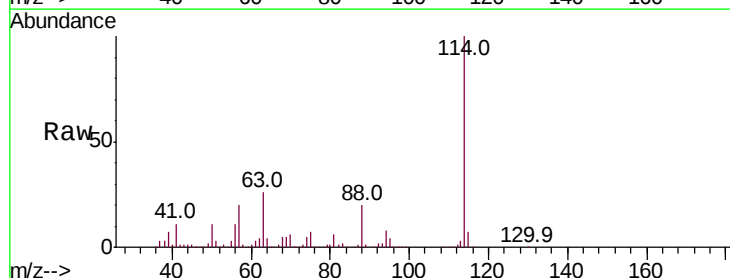
Tgt Ion:114 Resp: 2149944

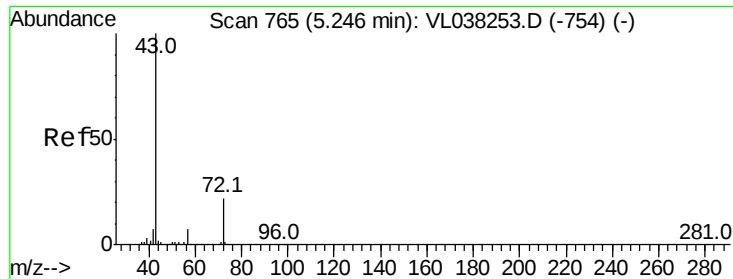
Ion Ratio Lower Upper

114 100

63 27.4 22.0 33.0

88 18.7 15.0 22.6



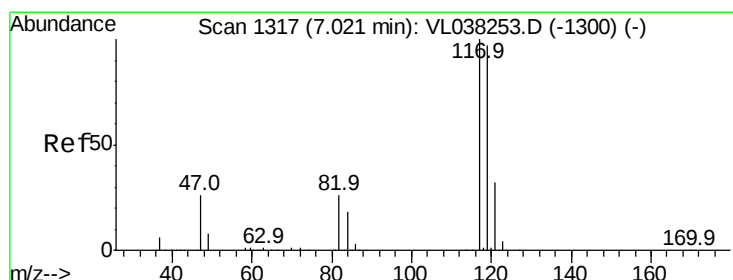
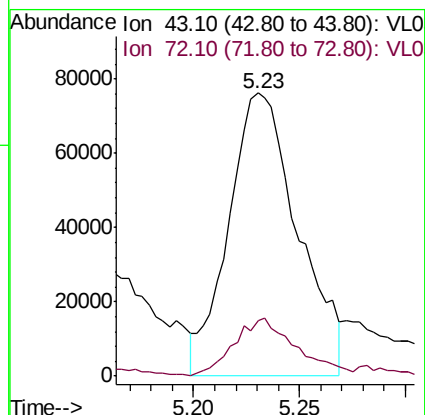
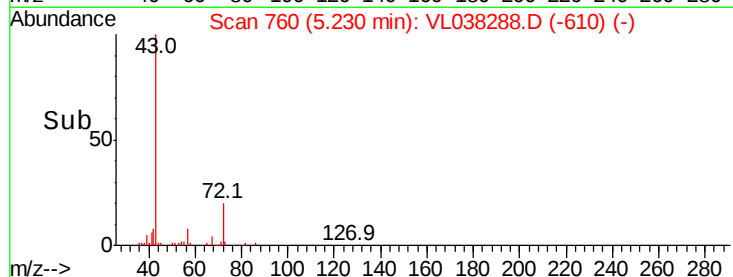
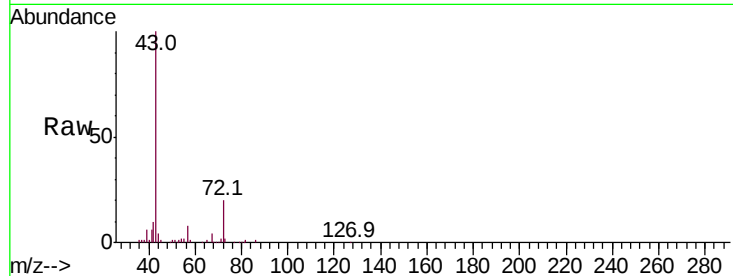


#34
2-Butanone
Concen: 2.476 ppbv m
RT: 5.23
Delta R.T.: MSVOA_L
Lab File: ClientSampled :
Acq: 26 Jan 2022 14:49

Tot Ion:
Ion Ratio
43 100
72 20.

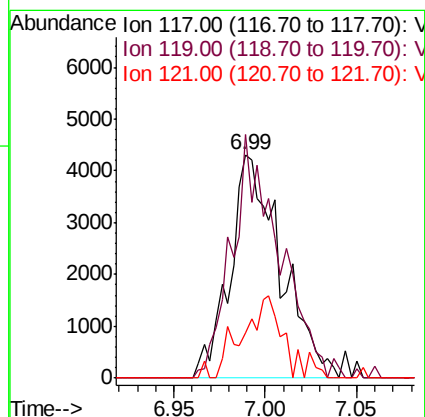
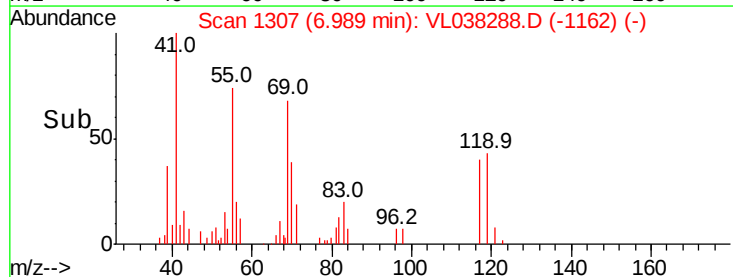
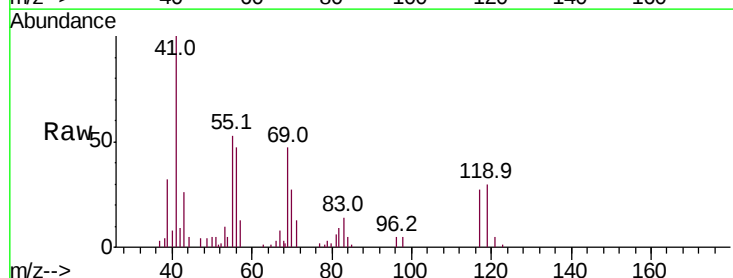
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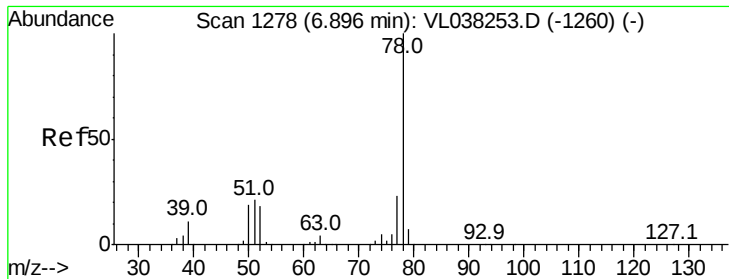
Reviewed By :Semsettin Yesilyurt 01/27/2022
Supervised By :Mahesh Dadoda 01/28/2022



#35
Carbon Tetrachloride
Concen: 0.055 ppbv m
RT: 6.99 min Scan# 1307
Delta R.T. -0.03 min
Lab File: VL038288.D
Acq: 26 Jan 2022 14:49

Tgt Ion:117 Resp: 8359
Ion Ratio Lower Upper
117 100
119 108.9 77.9 116.9
121 20.0 25.4 38.2#



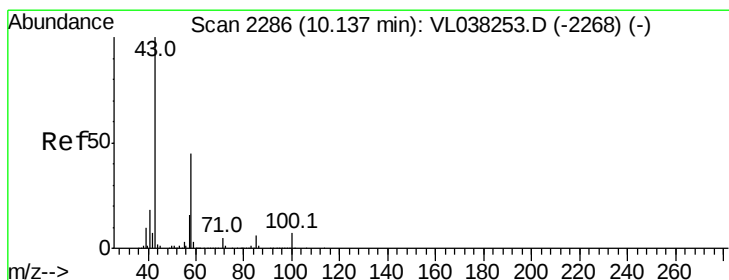
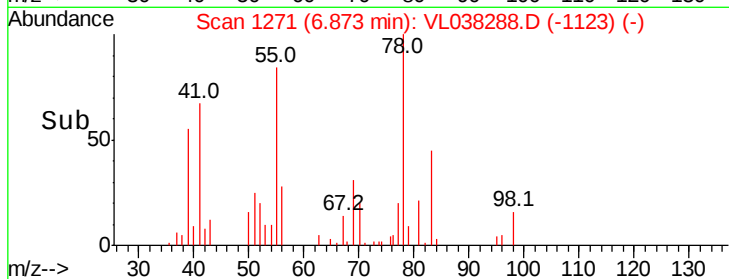
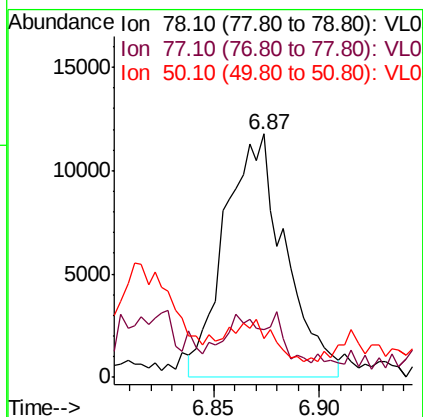
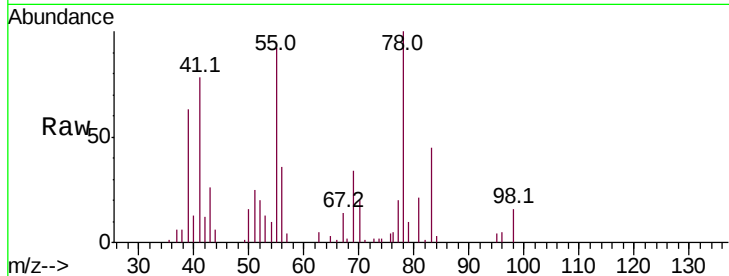


#36
Benzene
Concen: 0.123 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 26 Jan 2022 14:49

Tot Ion:
Ion Ratio
78 100
77 14.
50 3.

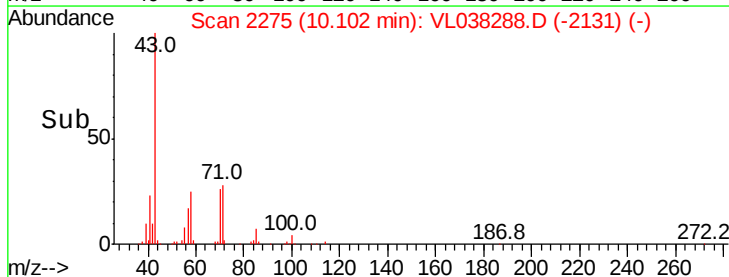
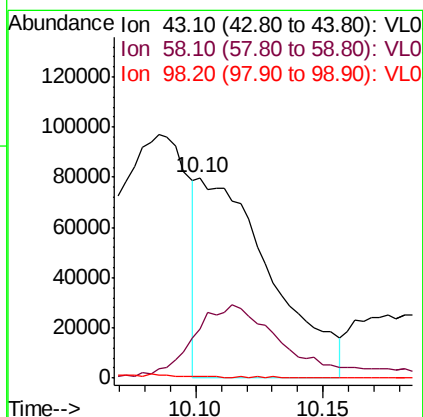
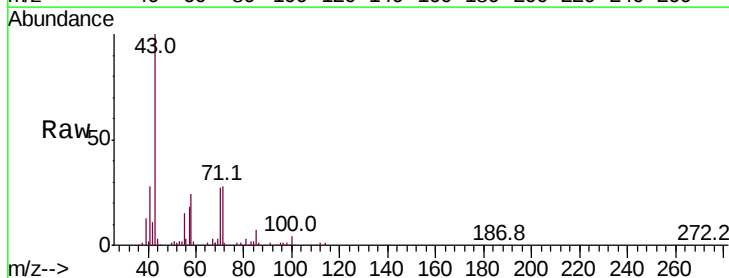
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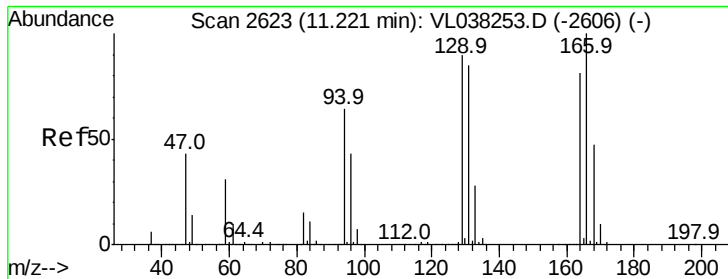
Reviewed By :Semsettin Yesilyurt 01/27/2022
Supervised By :Mahesh Dadoda 01/28/2022



#51
2-Hexanone
Concen: 2.894 ppbv m
RT: 10.10 min Scan# 2275
Delta R.T. -0.04 min
Lab File: VL038288.D
Acq: 26 Jan 2022 14:49

Tgt Ion: 43 Resp: 159854
Ion Ratio Lower Upper
43 100
58 0.0 37.0 55.4#
98 1.3 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.421 ppbv

RT: 11.19

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 26 Jan 2022 14:49

Tot Ion:1

Ion Ratio

164 100

166 127.

129 84.

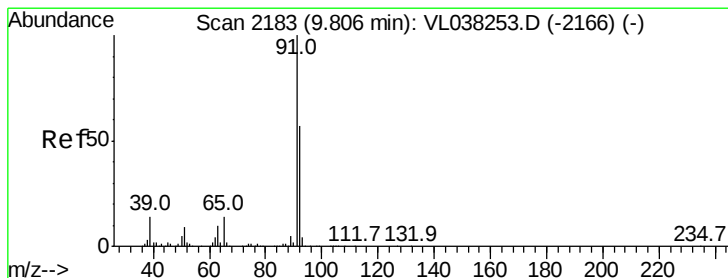
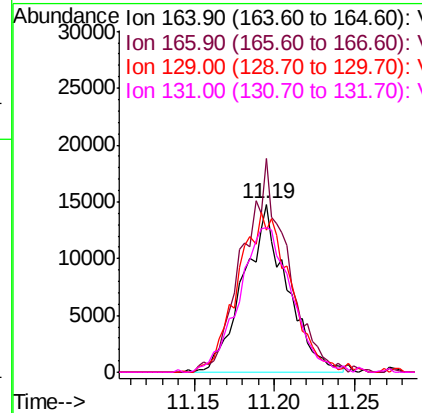
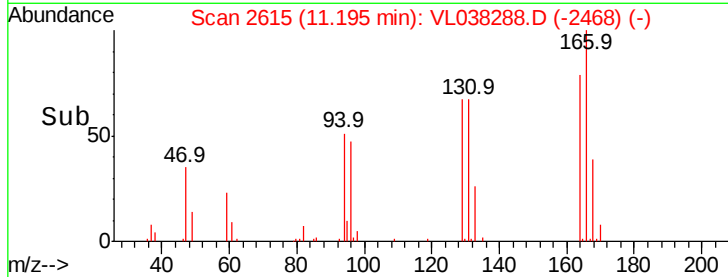
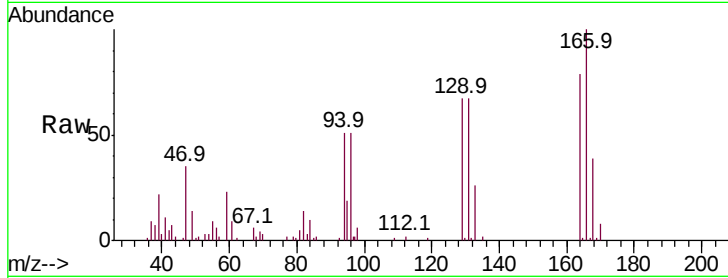
131 84.6

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Reviewed By :Semsettin Yesilyurt 01/27/2022

Supervised By :Mahesh Dadoda 01/28/2022



#53

Toluene

Concen: 0.236 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.03 min

Lab File: VL038288.D

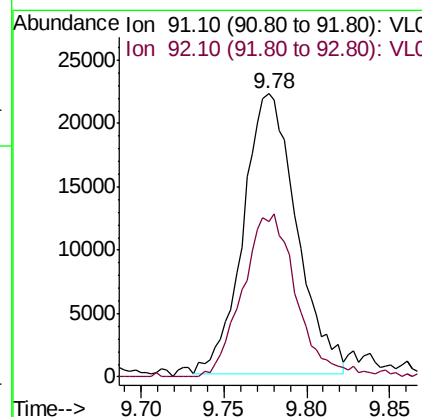
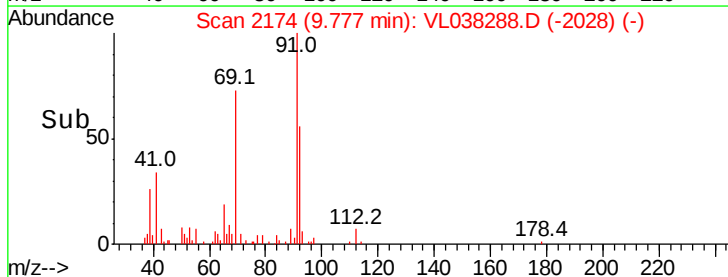
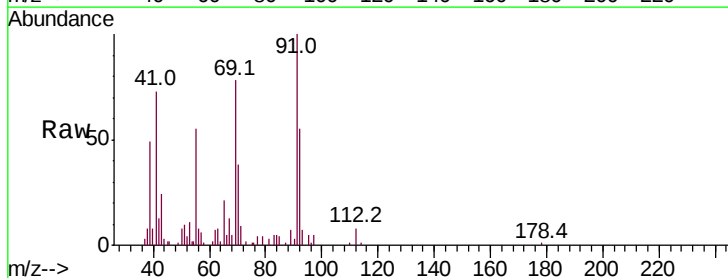
Acq: 26 Jan 2022 14:49

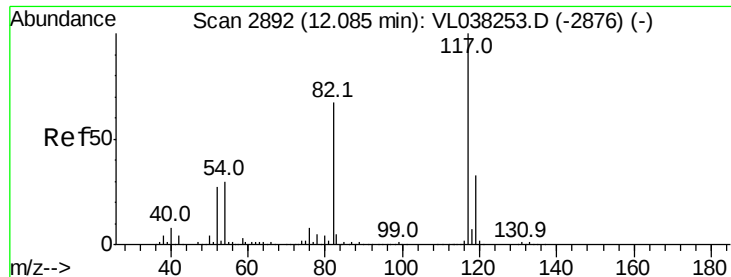
Tgt Ion: 91 Resp: 49589

Ion Ratio Lower Upper

91 100

92 58.9 47.4 71.0



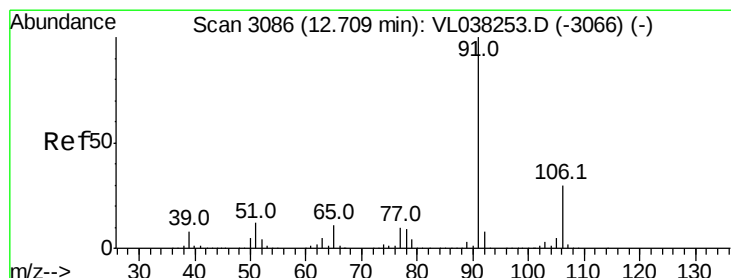
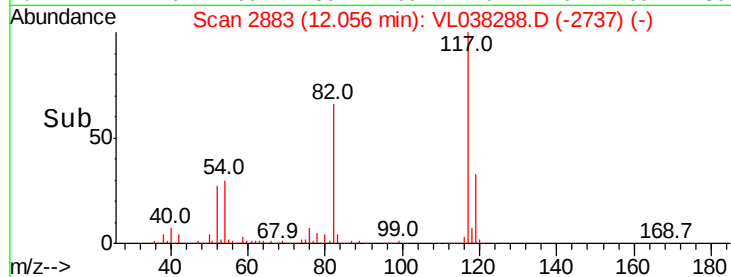
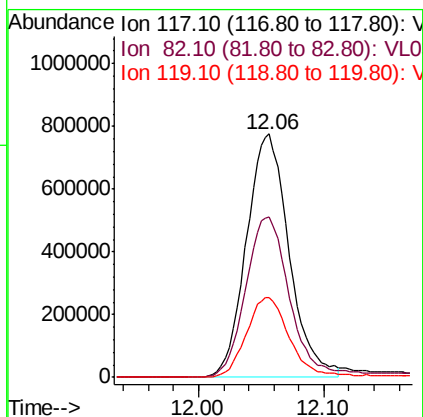
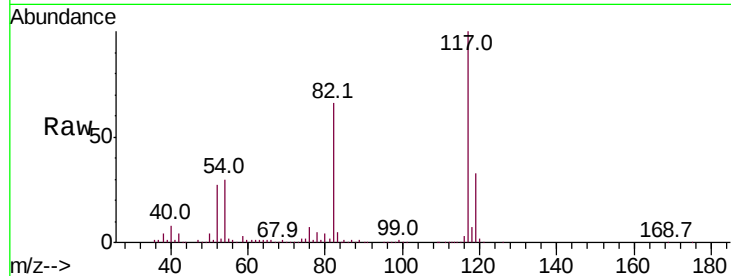


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV-1
Acq: 26 Jan 2022 14:49

Tot Ion: 1
Ion Ratio
117 100
82 71.
119 34.

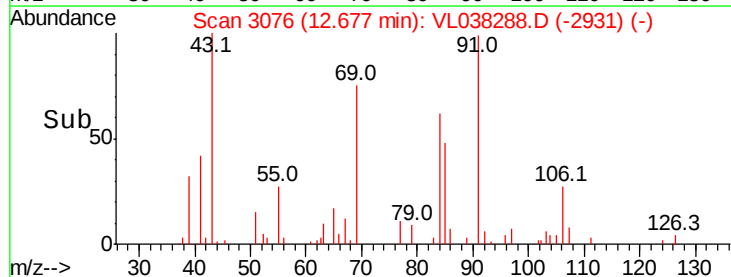
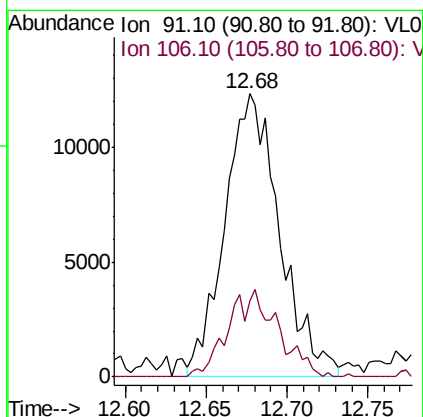
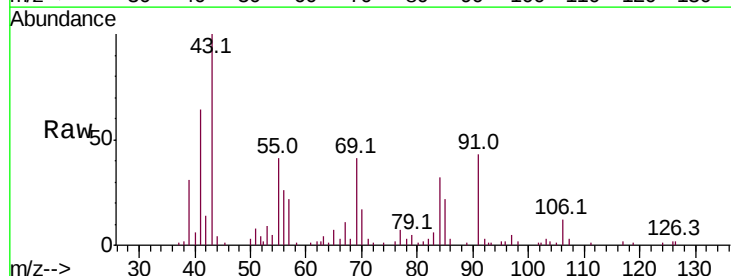
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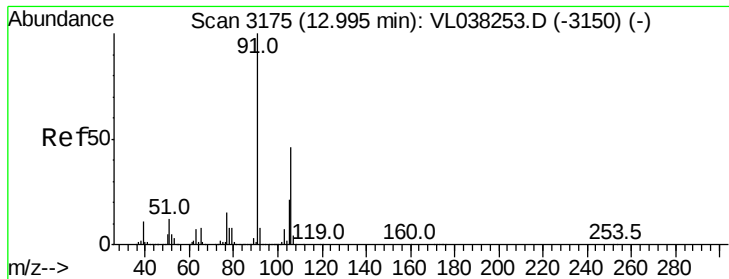
Reviewed By : Semsettin Yesilyurt 01/27/2022
Supervised By : Mahesh Dadoda 01/28/2022



#58
Ethyl Benzene
Concen: 0.108 ppbv m
RT: 12.68 min Scan# 3076
Delta R.T. -0.03 min
Lab File: VL038288.D
Acq: 26 Jan 2022 14:49

Tgt Ion: 91 Resp: 29237
Ion Ratio Lower Upper
91 100
106 26.7 24.1 36.1



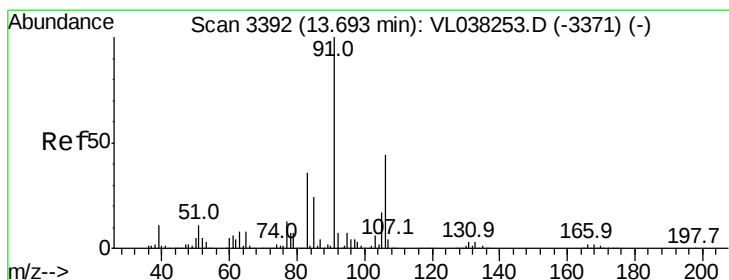
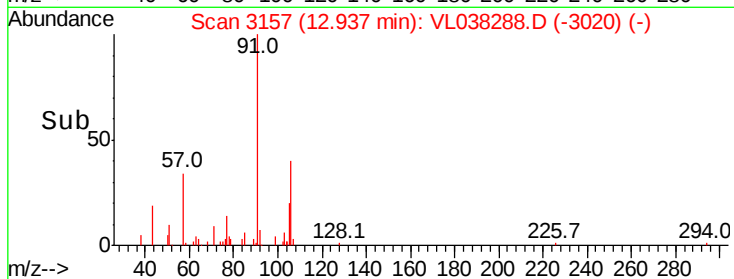
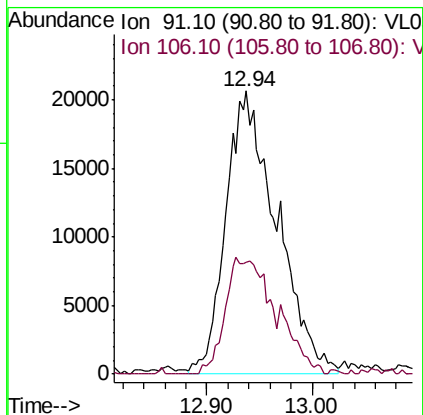
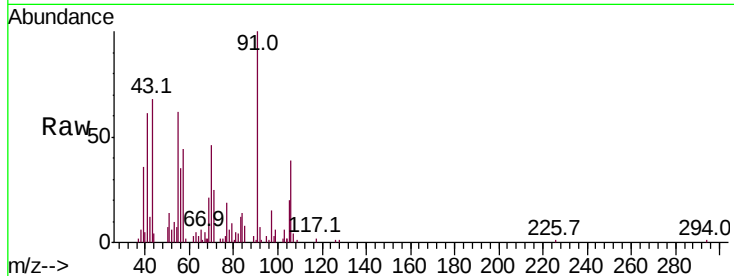


#59
m/p-Xylene
Concen: 0.299 ppbv m
RT: 12.94
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 26 Jan 2022 14:49

Tot Ion:
Ion Ratio
91 100
106 0.

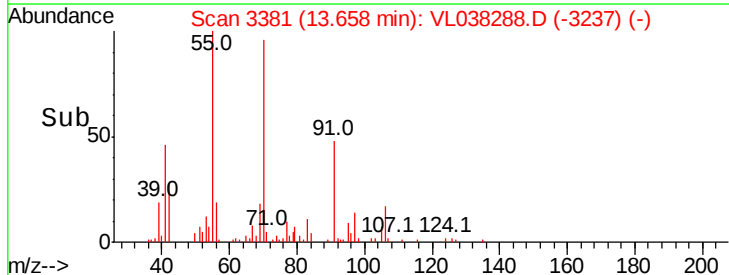
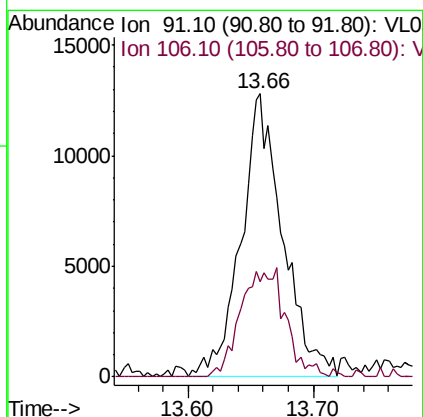
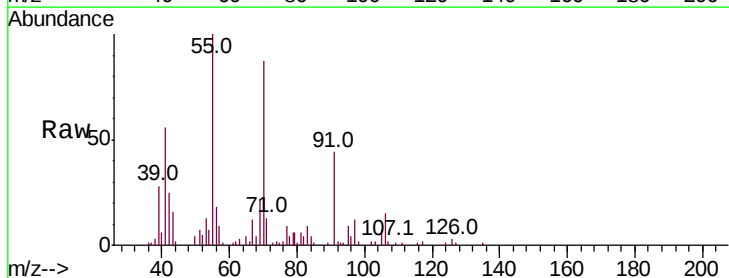
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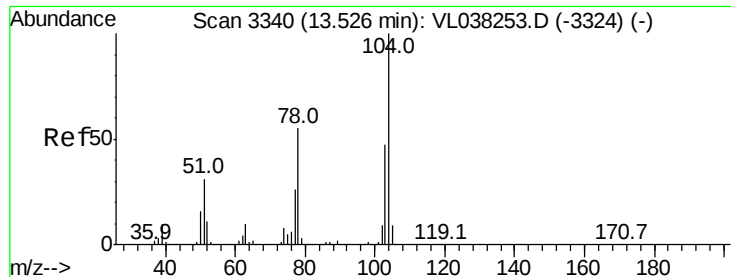
Reviewed By :Semsettin Yesilyurt 01/27/2022
Supervised By :Mahesh Dadoda 01/28/2022



#60
o-Xylene
Concen: 0.139 ppbv m
RT: 13.66 min Scan# 3381
Delta R.T. -0.04 min
Lab File: VL038288.D
Acq: 26 Jan 2022 14:49

Tgt Ion: 91 Resp: 29745
Ion Ratio Lower Upper
91 100
106 41.7 22.2 66.6



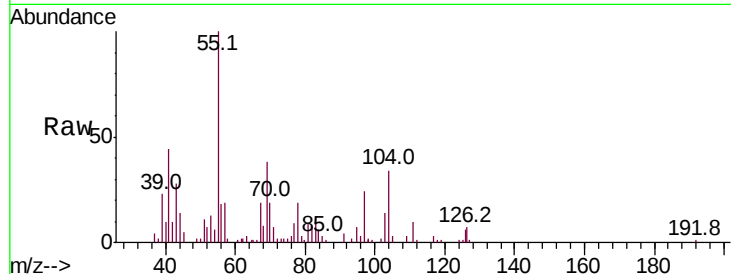


#61
Stvrene
Concen: 0.132 ppbv m
RT: 13.50
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-1
Acq: 26 Jan 2022 14:49

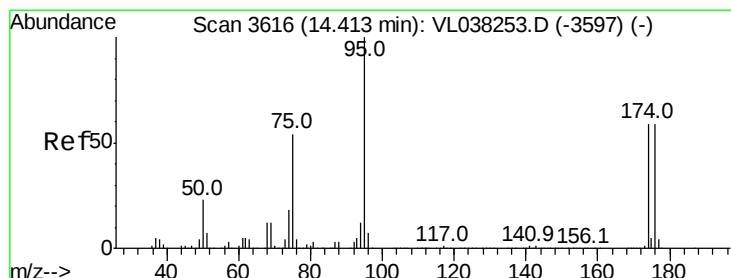
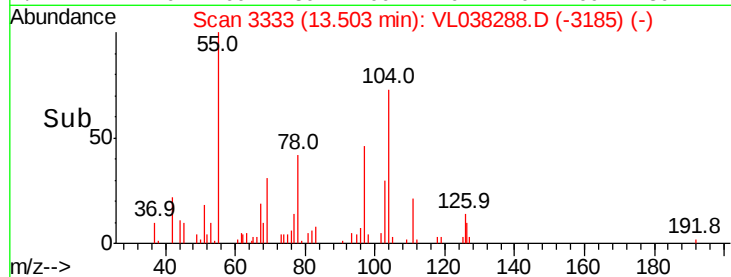
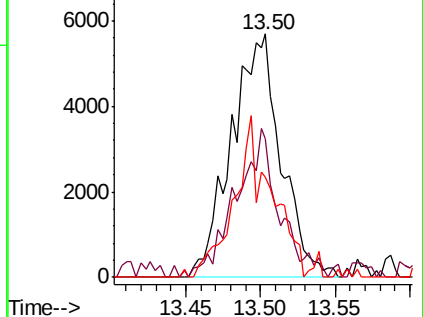
Tot Ion:1
Ion Rati
104 100
78 53.
103 51.

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Reviewed By :Semsettin Yesilyurt 01/27/2022
Supervised By :Mahesh Dadoda 01/28/2022

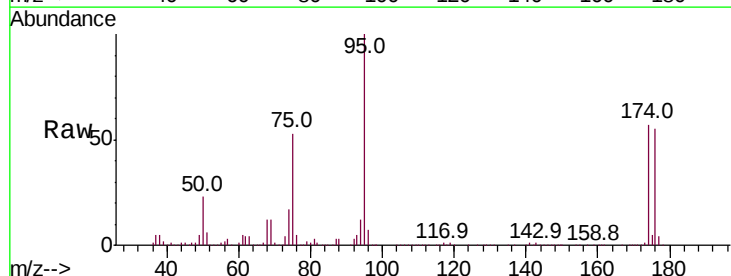


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

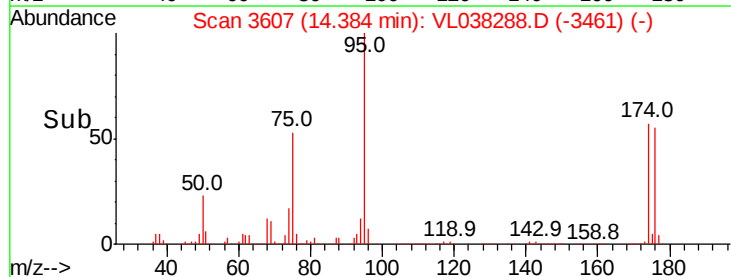
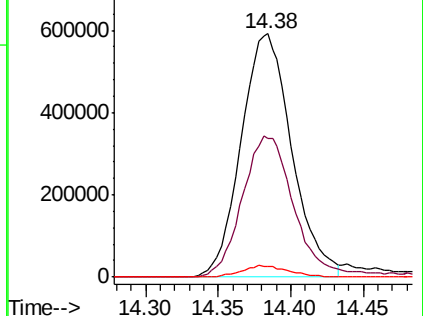


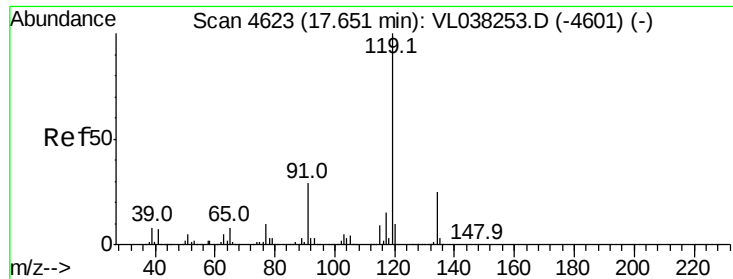
#68
1-Bromo-4-Fluorobenzene
Concen: 10.257 ppbv
RT: 14.38 min Scan# 3607
Delta R.T. -0.03 min
Lab File: VL038288.D
Acq: 26 Jan 2022 14:49

Tgt Ion: 95 Resp: 1430169
Ion Ratio Lower Upper
95 100
174 62.5 48.3 72.5
175 4.6 3.5 5.3



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



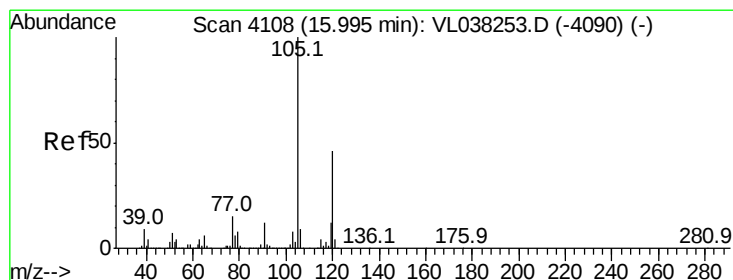
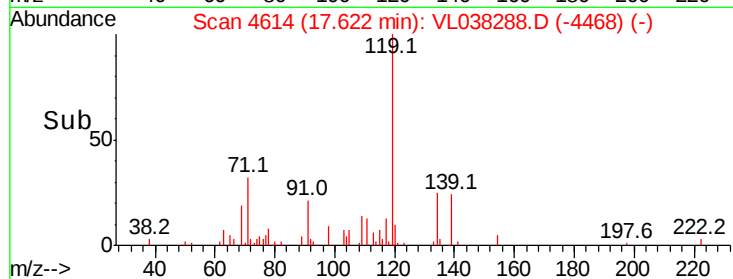
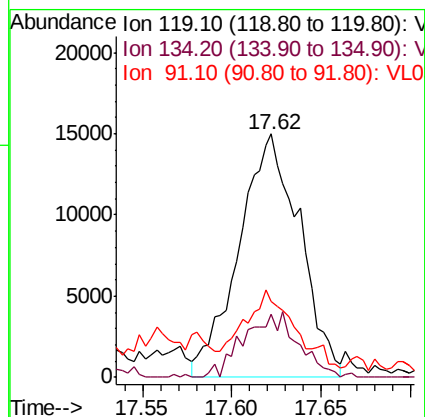
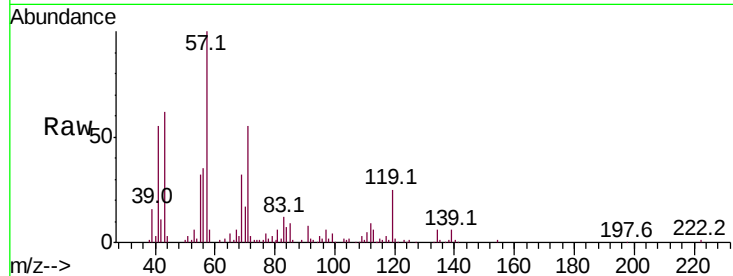


#69
 p-Isopropyltoluene
 Concen: 0.142 ppbv m
 RT: 17.62
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Jan 2022 14:49

Tot Ion:1
 Ion Rati
 119 100
 134 23.
 91 46.

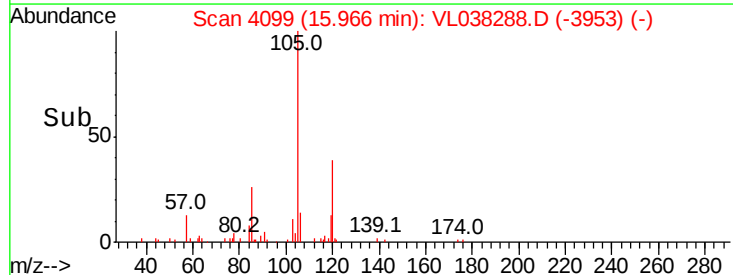
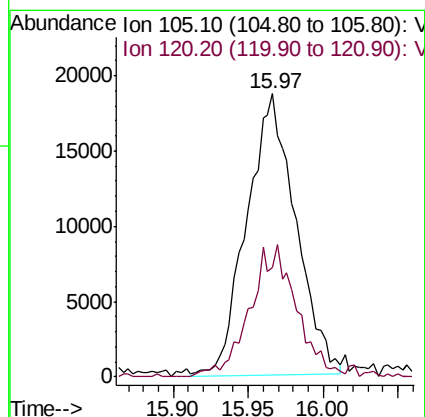
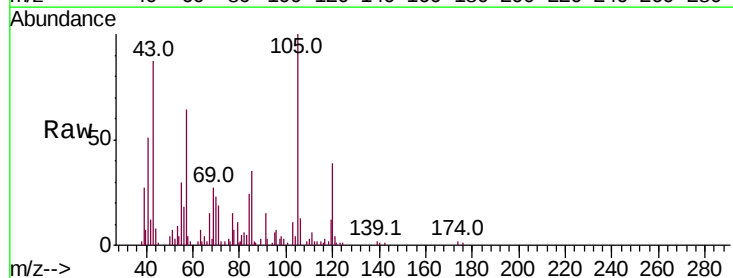
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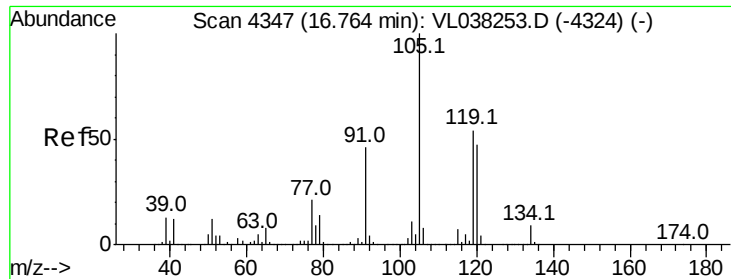
Reviewed By :Semsettin Yesilyurt 01/27/2022
 Supervised By :Mahesh Dadoda 01/28/2022



#73
 1,3,5-Trimethylbenzene
 Concen: 0.212 ppbv
 RT: 15.97 min Scan# 4099
 Delta R.T. -0.03 min
 Lab File: VL038288.D
 Acq: 26 Jan 2022 14:49

Tgt Ion:105 Resp: 42627
 Ion Ratio Lower Upper
 105 100
 120 39.0 36.6 55.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.471 ppbv
 RT: 16.73
 Instrument : MSVOA_1
 Delta R.T
 Lab File: ClientSampleId :
 SV-1
 Acq: 26 Jan 2022 14:49

Tot Ion:1
 Ion Rati
 105 100
 120 45.
 91 9.
 77 13.4 16.9 25.3#

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/27/2022
 Supervised By :Mahesh Dadoda 01/28/2022

