

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039055.D
 Acq On : 14 May 2022 3:16
 Operator : SY/AP
 Sample : N2828-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/16/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 14 04:12:04 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	903816	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2169285	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1918619	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1588071	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	50254m	0.355	ppbv	
3) Chlorodifluoromethane	2.98	51	4546942	40.543	ppbv	99
4) Chloromethane	3.14	50	28149	0.501	ppbv #	74
7) Chloroethane	3.55	64	2139	0.125	ppbv	91
9) Propene	3.02	41	140017m	2.859	ppbv	
10) Heptane	8.10	43	66463m	0.553	ppbv	
11) Trichlorofluoromethane	3.94	101	28198	0.232	ppbv	96
13) Ethanol	3.59	45	5773309	1665.681	ppbv	89
15) Acetone	3.83	43	1821461	21.364	ppbv	95
17) tert-Butyl alcohol	4.29	59	127295m	1.943	ppbv	
19) Isopropyl Alcohol	3.96	45	1747903	43.119	ppbv #	99
20) Methylene Chloride	4.33	84	35338	1.100	ppbv #	89
23) Vinyl Acetate	5.06	43	2746445	40.713	ppbv #	98
25) Ethyl Acetate	5.66	43	1508887	7.394	ppbv #	95
27) Carbon Disulfide	4.54	76	17946m	0.208	ppbv	
29) Chloroform	5.74	83	389341	2.654	ppbv	97
34) 2-Butanone	5.23	43	877902	7.933	ppbv	98
35) Carbon Tetrachloride	7.00	117	9703m	0.068	ppbv	
36) Benzene	6.88	78	45440	0.245	ppbv #	91
41) Tetrahydrofuran	6.03	42	17744m	0.239	ppbv	
51) 2-Hexanone	10.10	43	479141	3.383	ppbv	100
52) Tetrachloroethene	11.20	164	16117m	0.243	ppbv	
53) Toluene	9.79	91	89745	0.431	ppbv	97
59) m/p-Xylene	12.95	91	51684m	0.219	ppbv	
60) o-Xylene	13.67	91	27050m	0.122	ppbv	
61) Styrene	13.50	104	15259m	0.129	ppbv	
62) Isopropylbenzene	14.64	105	42086	0.130	ppbv	99
69) p-Isopropyltoluene	17.63	119	41473m	0.126	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	45413m	0.182	ppbv	
79) Naphthalene	22.17	128	20280m	0.100	ppbv	

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

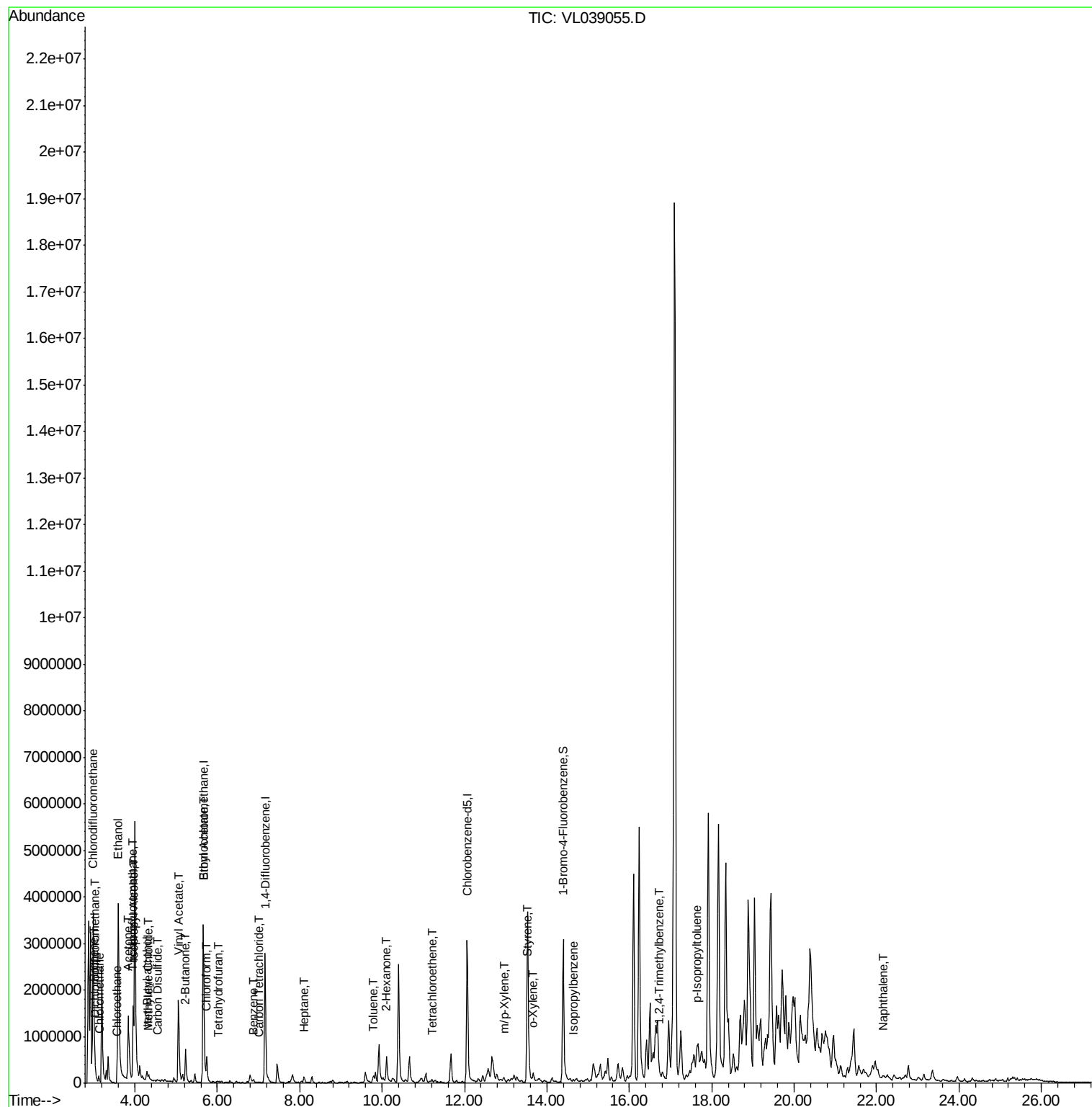
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
Data File : VL039055.D
Acq On : 14 May 2022 3:16
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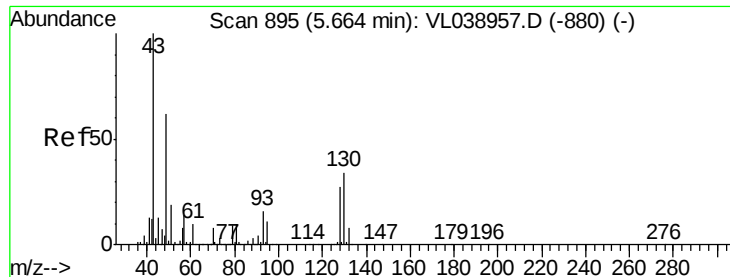
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: May 14 04:12:04 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu May 05 10:12:15 2022
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Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 3:10

Tot Ion:

Ion Ratio

49 100

128 47.

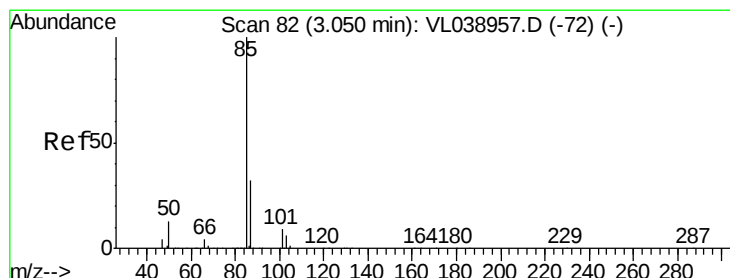
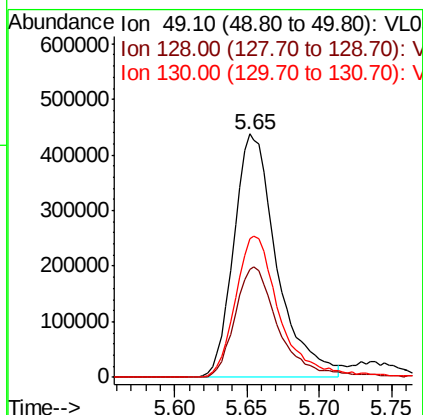
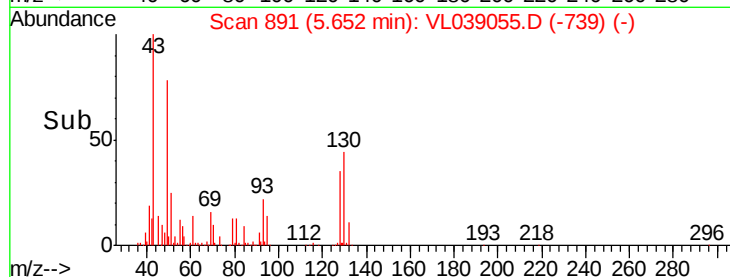
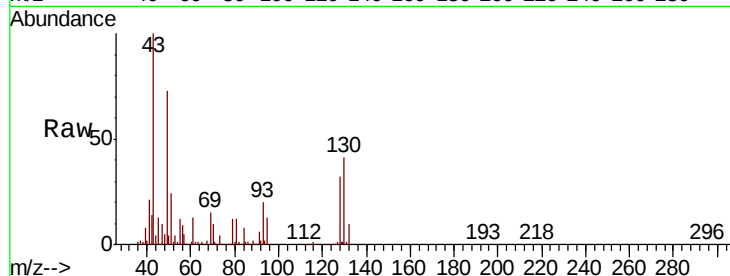
130 60.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#2

Dichlorodifluoromethane

Concen: 0.355 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL039055.D

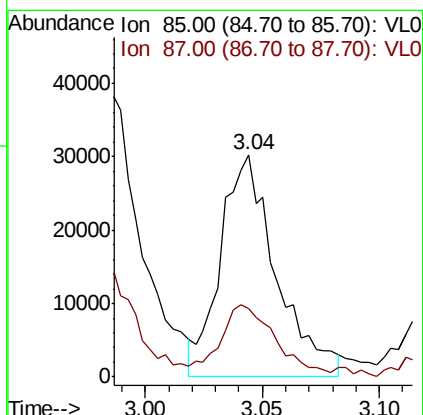
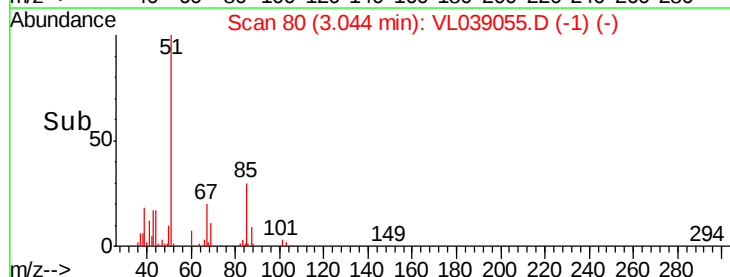
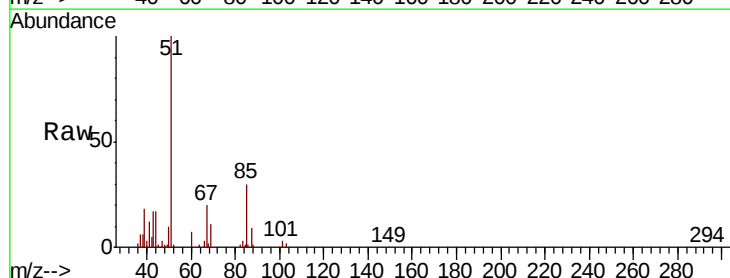
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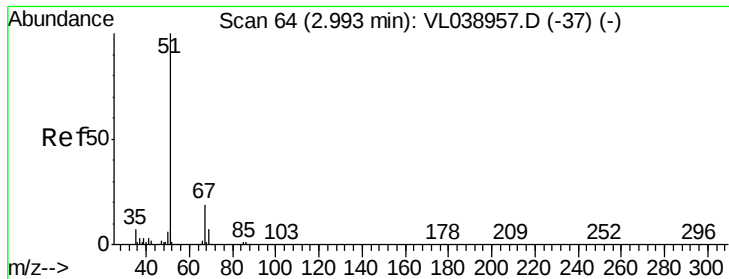
Tgt Ion: 85 Resp: 50254

Ion Ratio Lower Upper

85 100

87 30.8 25.7 38.5





#3

Chlorodifluoromethane

Concen: 40.543 ppbv

RT: 2.98 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV1
Acq: 14 May 2022 3:16

Tot Ion:

Ion Ratio

51 100

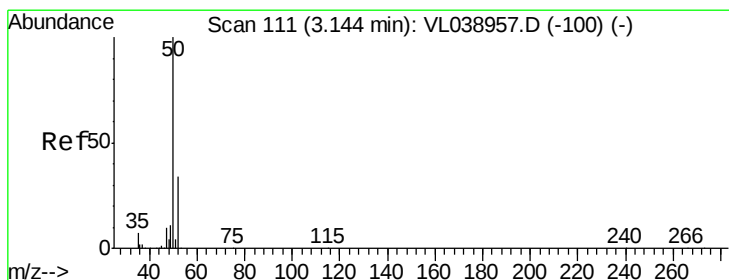
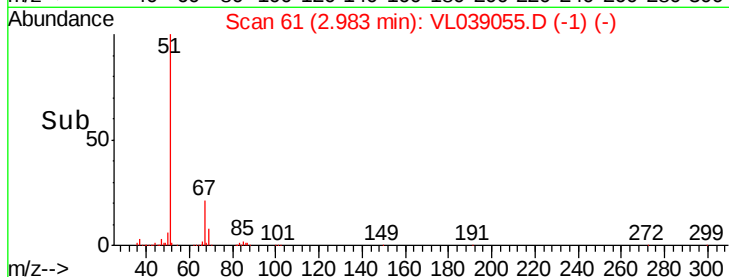
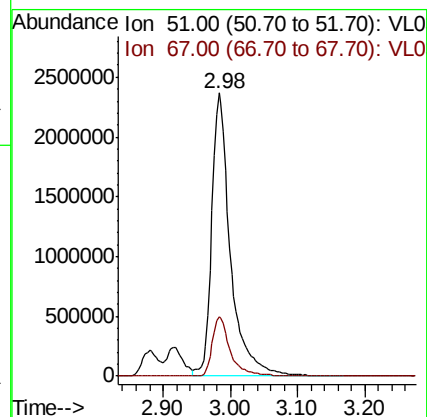
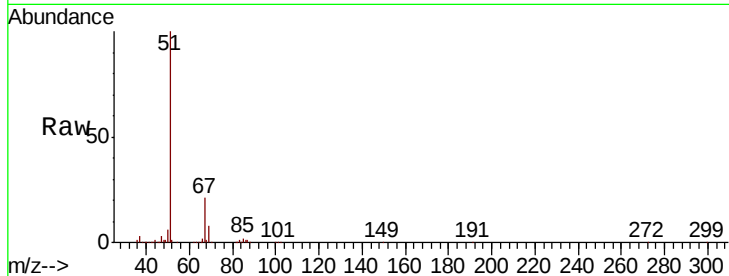
67 20.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#4

Chloromethane

Concen: 0.501 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039055.D

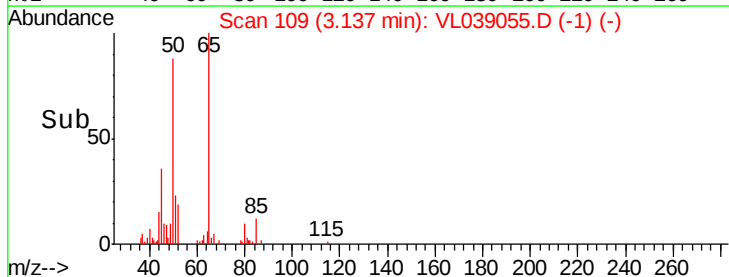
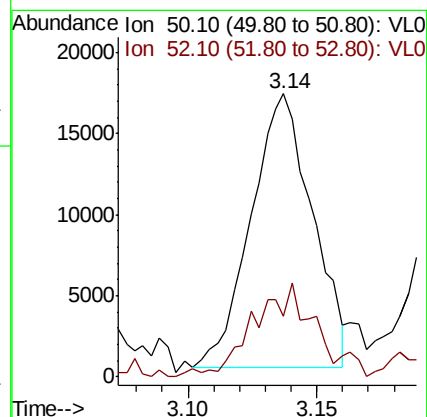
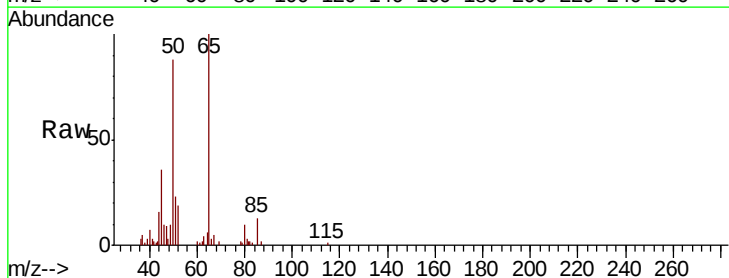
Acq: 14 May 2022 3:16

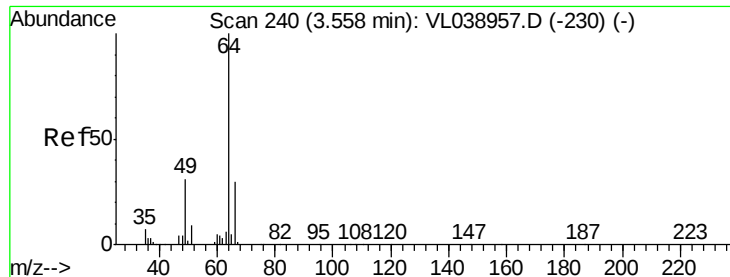
Tgt Ion: 50 Resp: 28149

Ion Ratio Lower Upper

50 100

52 19.2 27.3 40.9#





#7

Chloroethane

Concen: 0.125 ppbv

RT: 3.55 Instrument: MSVOA_1

Delta R.T. 0.01

Lab File: ClientSampleId: SV1

Acq: 14 May 2022 3:16

Tot Ion:

Ion Ratio

64 100

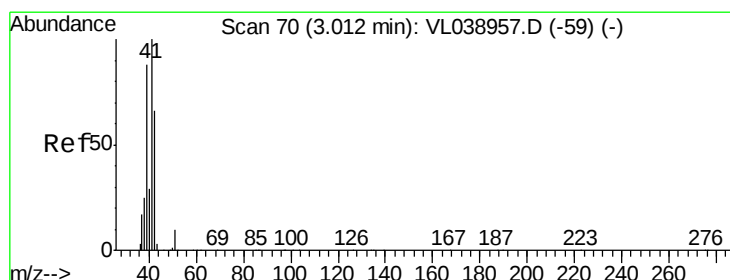
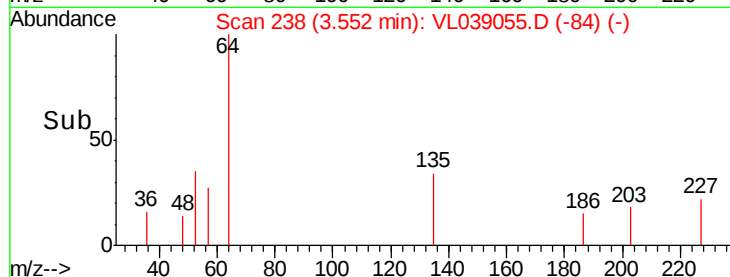
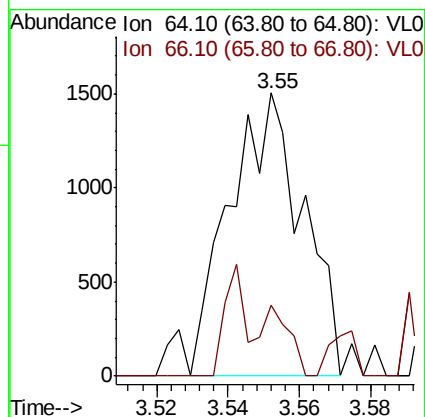
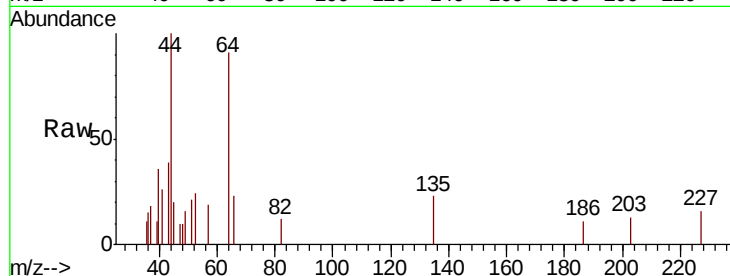
66 25.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#9

Propene

Concen: 2.859 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL039055.D

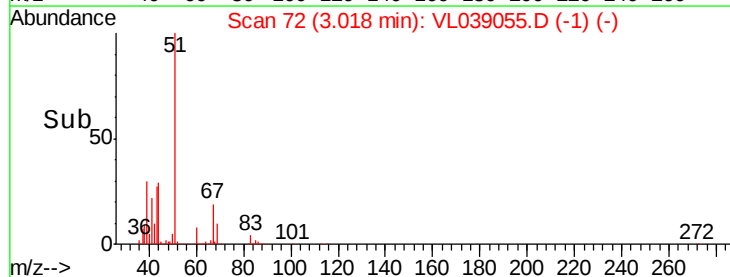
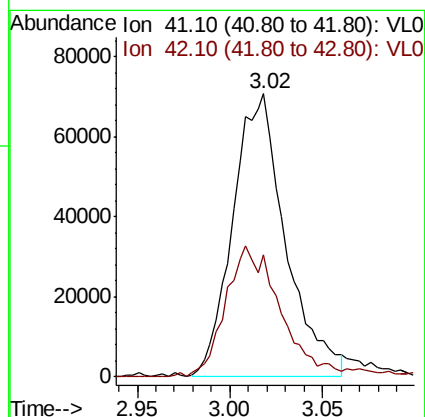
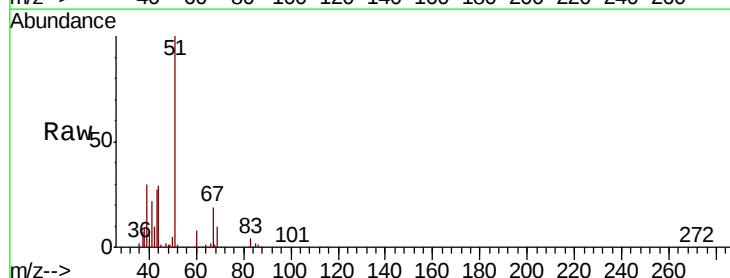
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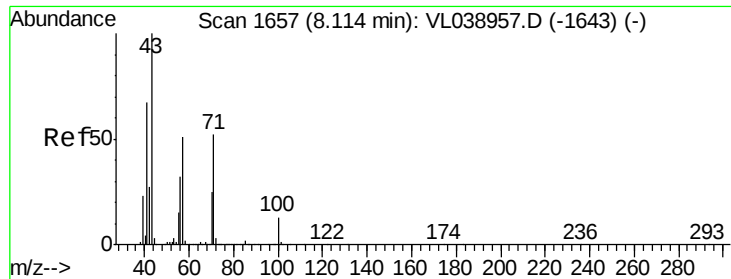
Tgt Ion: 41 Resp: 140017

Ion Ratio Lower Upper

41 100

42 428.9 58.3 87.5#





#10

Heptane

Concen: 0.553 ppbv m

RT: 8.10 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 3:16 SV1

Tot Ion:

Ion Ratio

43 100

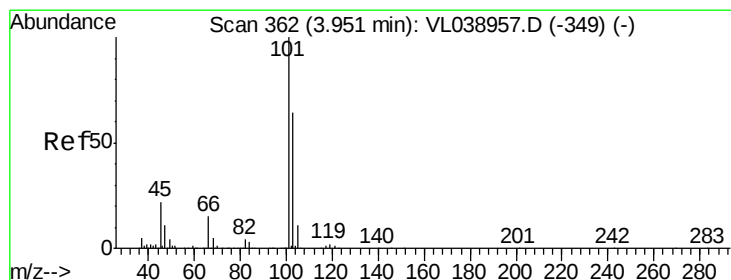
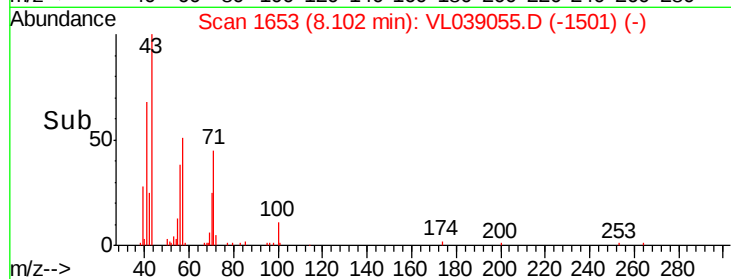
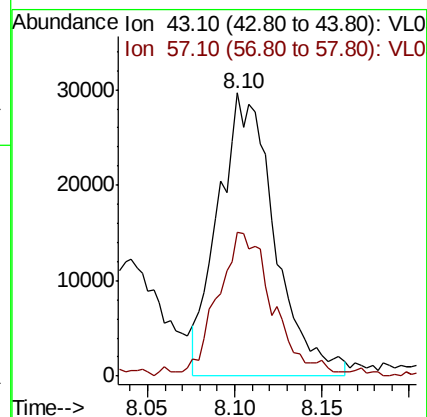
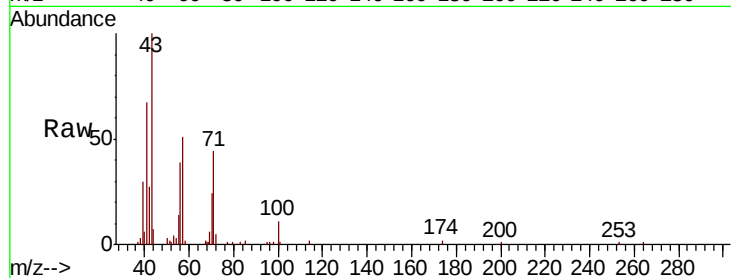
57 52.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#11

Trichlorofluoromethane

Concen: 0.232 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL039055.D

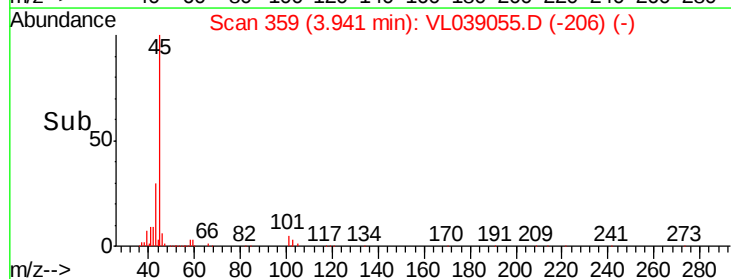
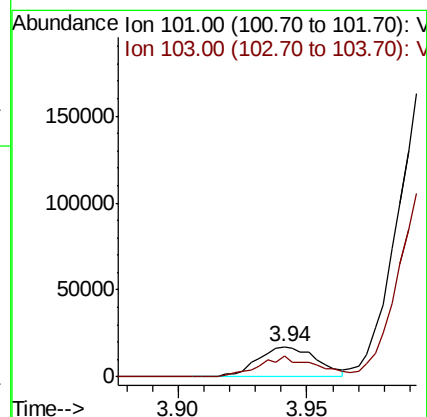
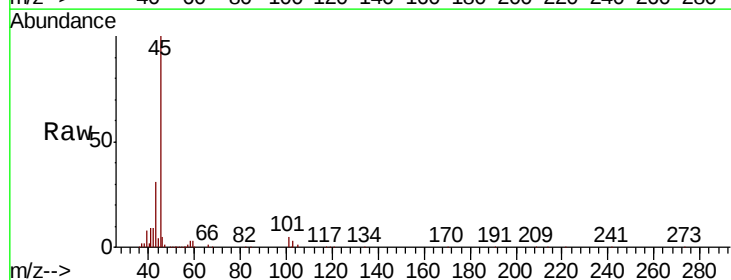
Acq: 14 May 2022 3:16

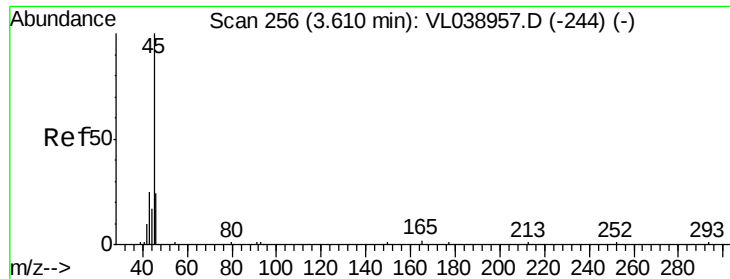
Tgt Ion:101 Resp: 28198

Ion Ratio Lower Upper

101 100

103 67.6 51.5 77.3



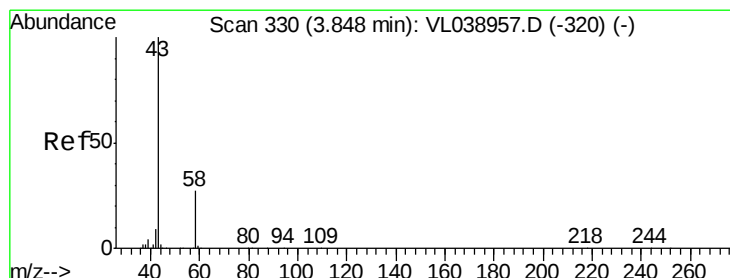
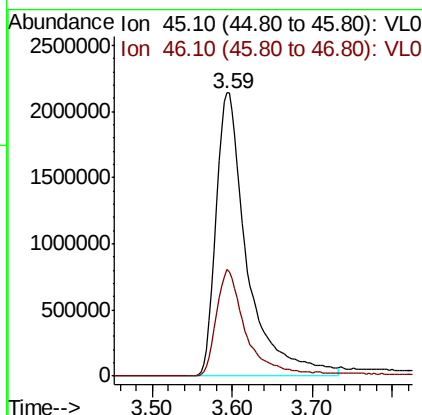
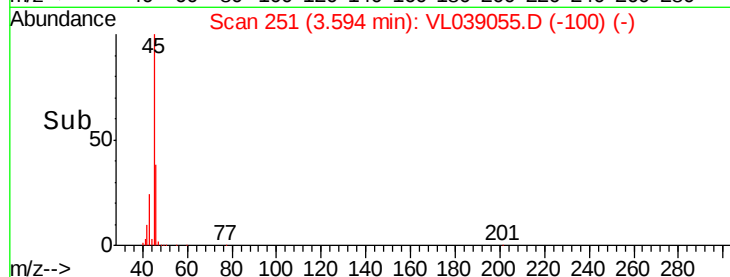
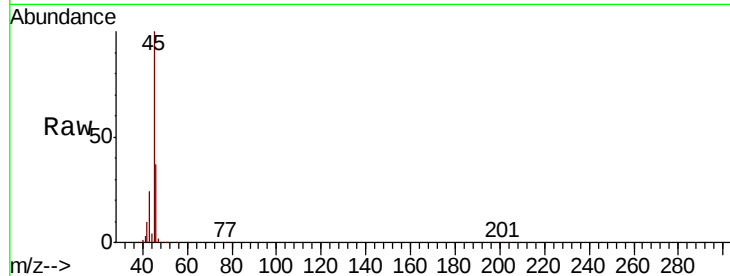


#13
Ethanol
Concen: 1665.681 ppbv
RT: 3.59
Instrument : MSVOA_L
Delta R.T. :
Lab File: ClientSampleId :
SV1
Acq: 14 May 2022 3:16

Tot Ion:
Ion Ratio
45 100
46 37.

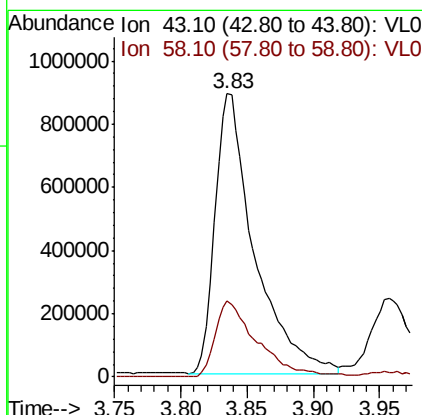
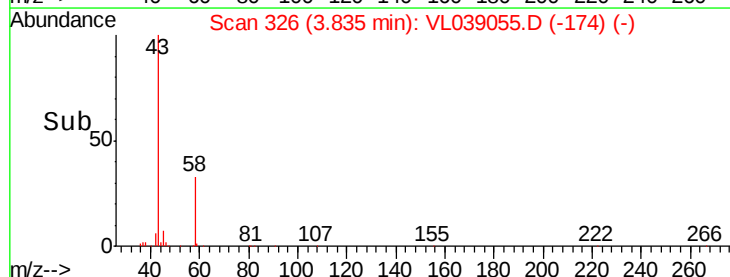
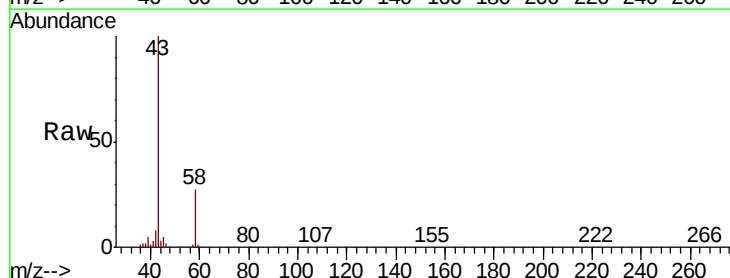
Manual Integrations
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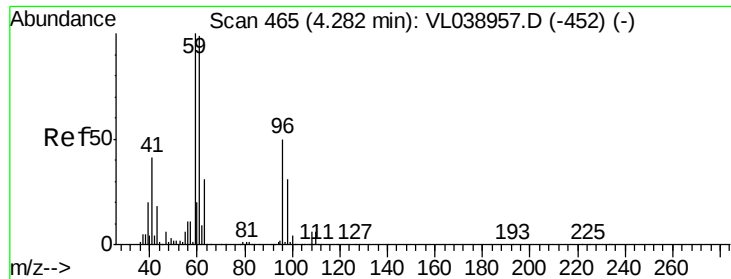
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#15
Acetone
Concen: 21.364 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.01 min
Lab File: VL039055.D
Acq: 14 May 2022 3:16

Tgt Ion: 43 Resp: 1821461
Ion Ratio Lower Upper
43 100
58 29.1 21.3 31.9





#17

tert-Butyl alcohol

Concen: 1.943 ppbv m

RT: 4.29 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

SV1 Acq: 14 May 2022 3:16

Tot Ion:

Ion Ratio

59 100

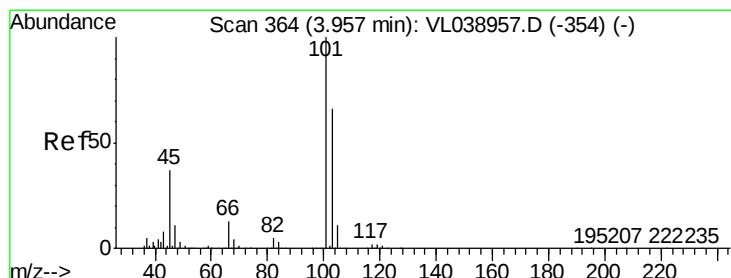
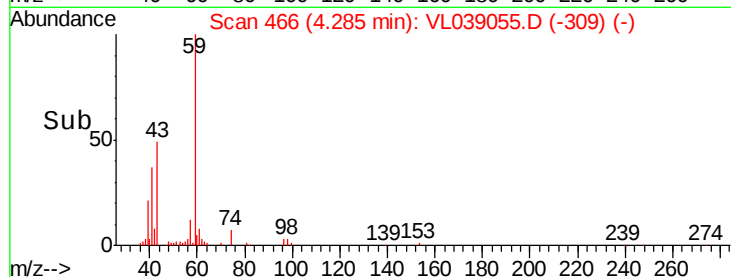
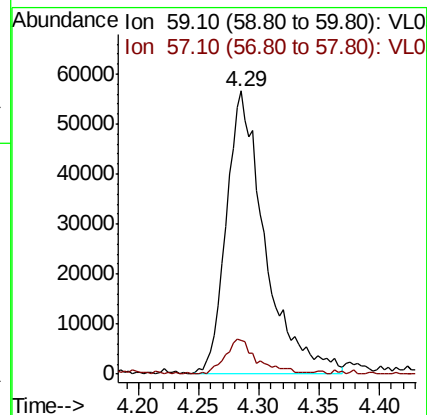
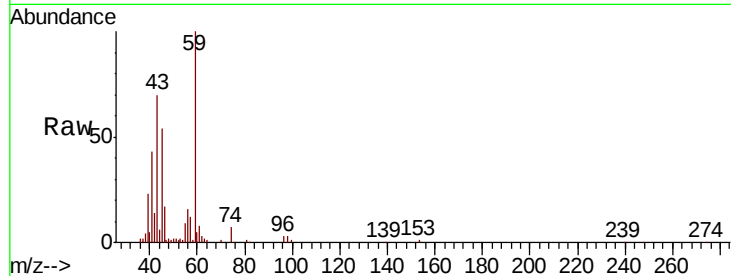
57 10.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#19

Isopropyl Alcohol

Concen: 43.119 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL039055.D

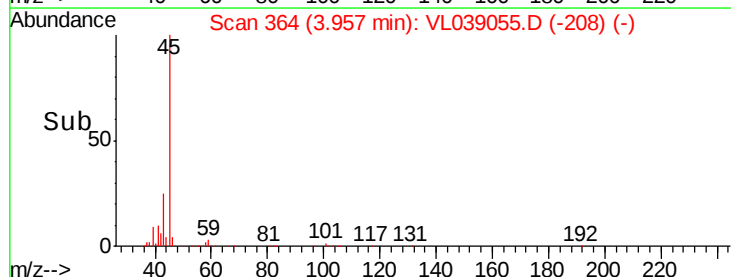
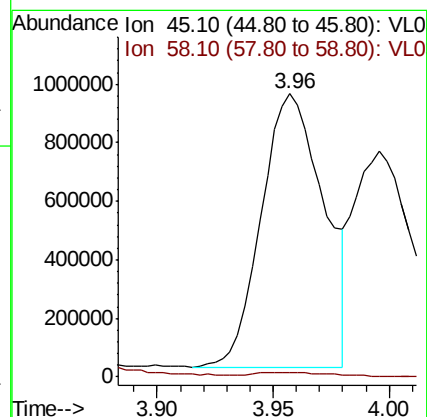
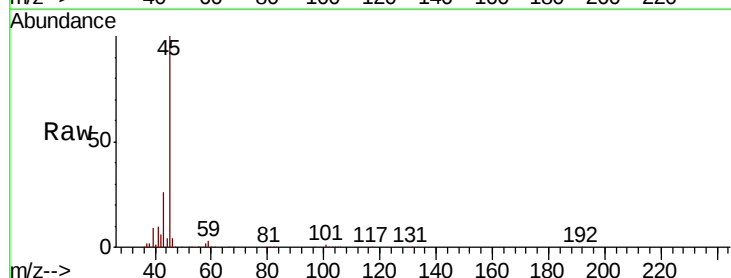
Acq: 14 May 2022 3:16

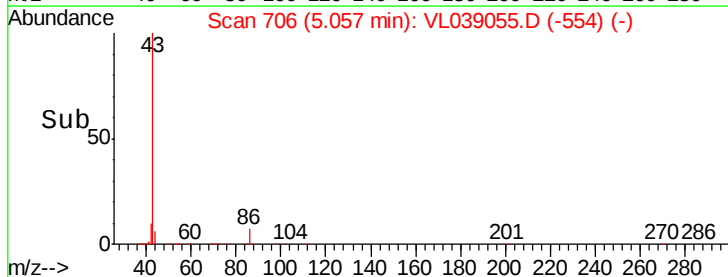
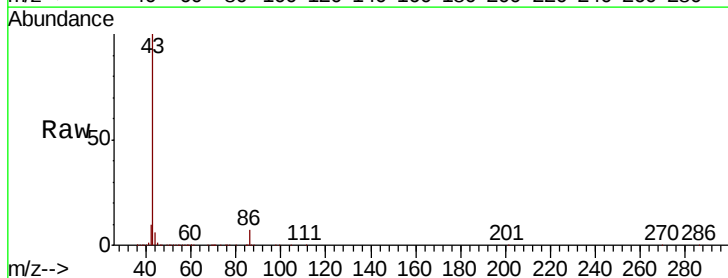
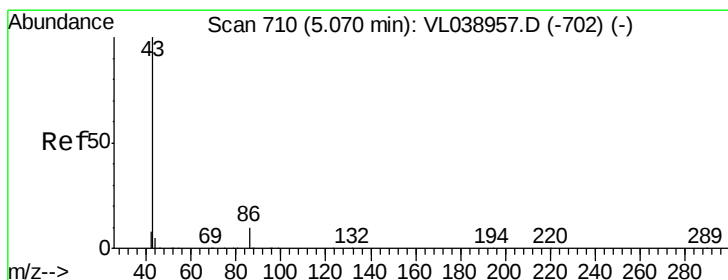
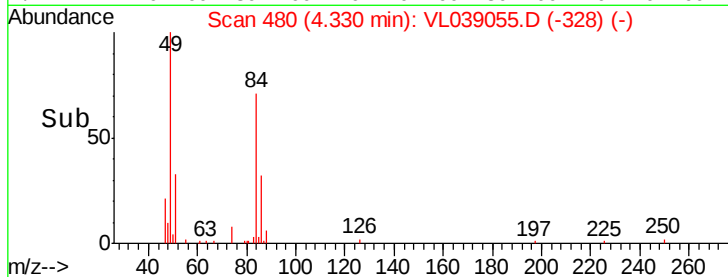
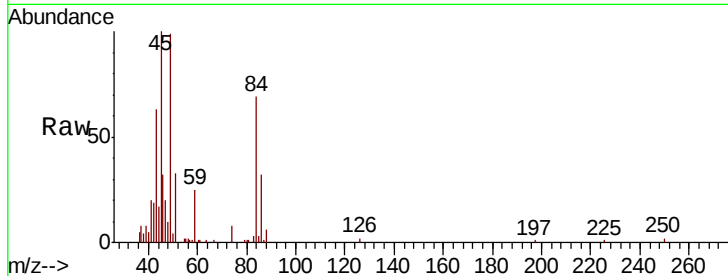
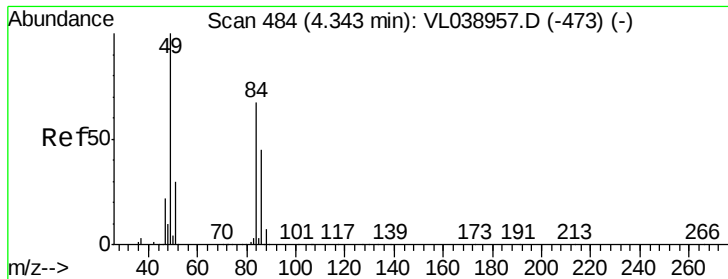
Tgt Ion: 45 Resp: 1747903

Ion Ratio Lower Upper

45 100

58 2.3 1.4 2.2#



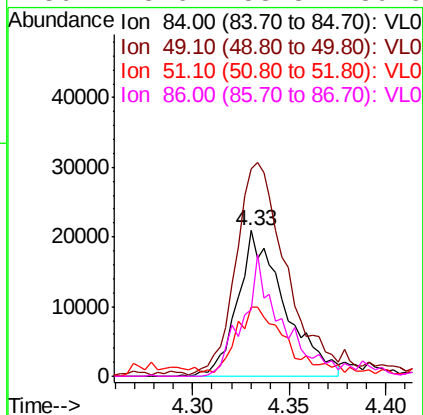


#20
Methvlene Chloride
Concen: 1.100 ppbv
RT: 4.33
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1
Acq: 14 May 2022 3:10

Tot Ion:
Ion Ratio
84 100
49 141.
51 42.
86 45.6 53.8 80.6#

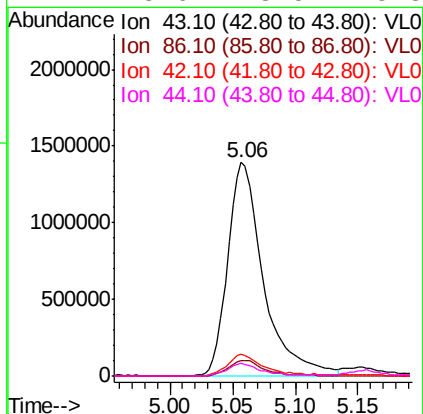
Manual Integrations
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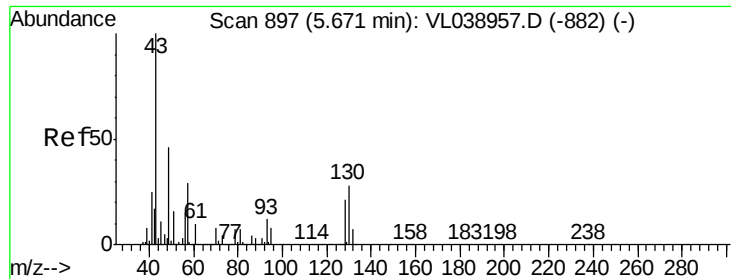
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#23
Vinyl Acetate
Concen: 40.713 ppbv
RT: 5.06 min Scan# 706
Delta R.T. -0.01 min
Lab File: VL039055.D
Acq: 14 May 2022 3:16

Tgt Ion: 43 Resp: 2746445
Ion Ratio Lower Upper
43 100
86 7.1 6.6 9.8
42 10.0 8.1 12.1
44 5.6 3.5 5.3#



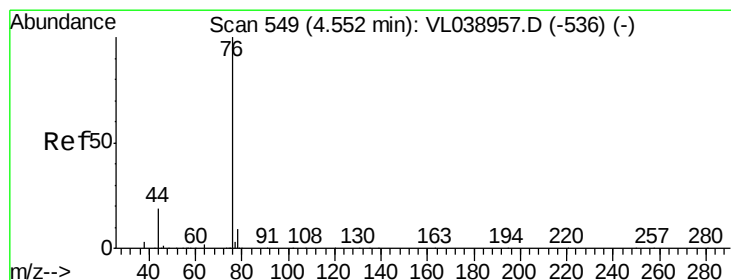
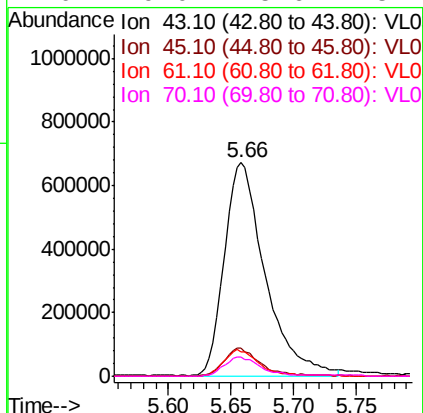
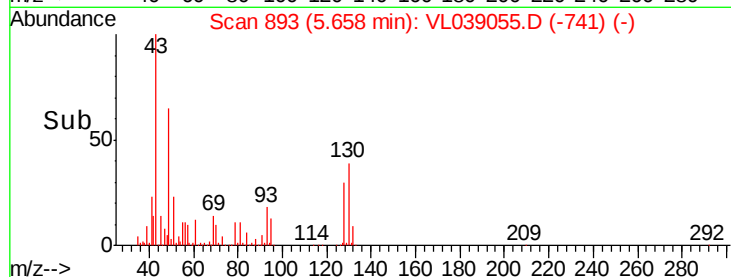
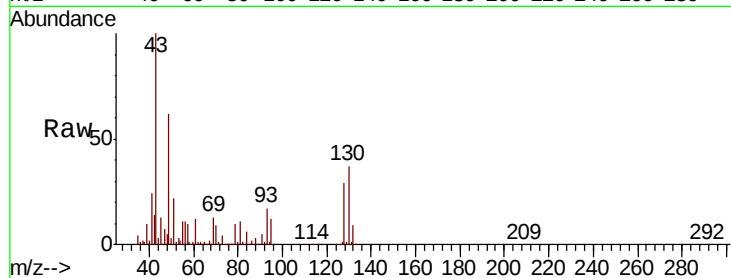


#25
Ethyl Acetate
Concen: 7.394 ppbv
RT: 5.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 14 May 2022 3:16

Tot Ion:
Ion Ratio
43 100
45 11.
61 11.
70 9.0 5.6 8.4#

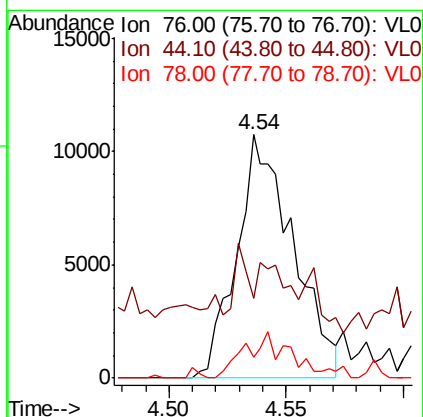
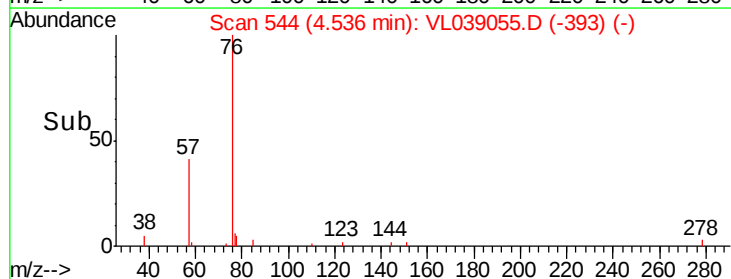
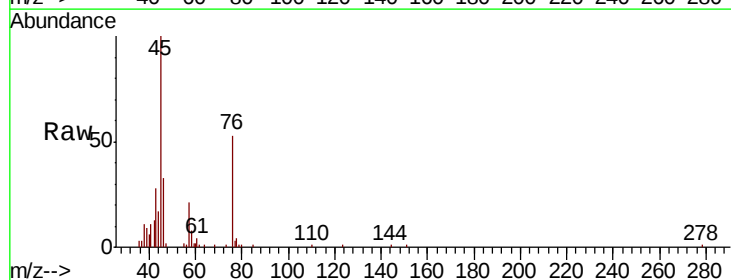
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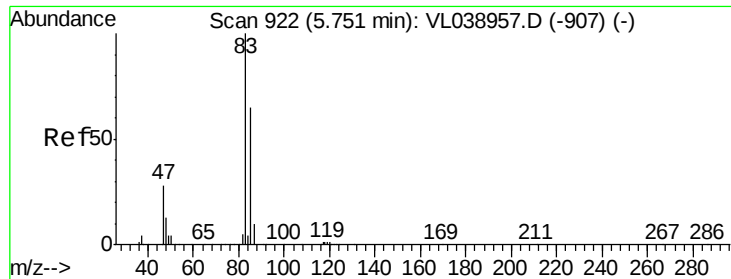
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#27
Carbon Disulfide
Concen: 0.208 ppbv m
RT: 4.54 min Scan# 544
Delta R.T. -0.02 min
Lab File: VL039055.D
Acq: 14 May 2022 3:16

Tgt Ion: 76 Resp: 17946
Ion Ratio Lower Upper
76 100
44 0.0 15.3 22.9#
78 18.0 8.2 12.2#



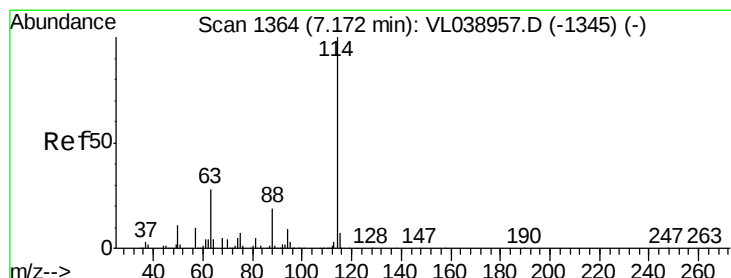
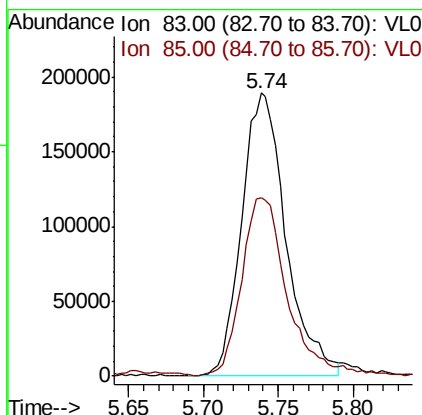
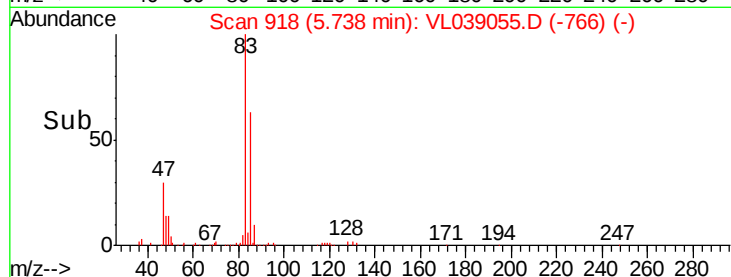
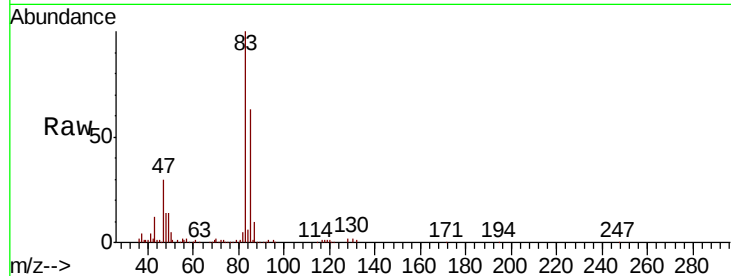


#29
Chloroform
Concen: 2.654 ppbv
RT: 5.74
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1
Acq: 14 May 2022 3:16

Tot Ion:
Ion Ratio
83 100
85 62.

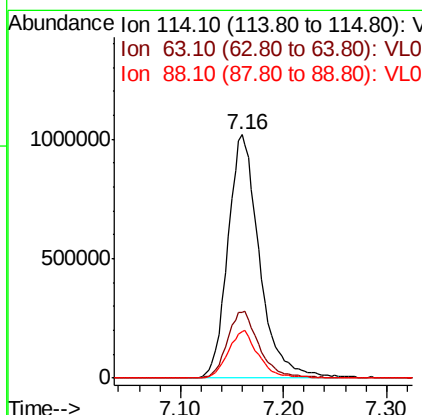
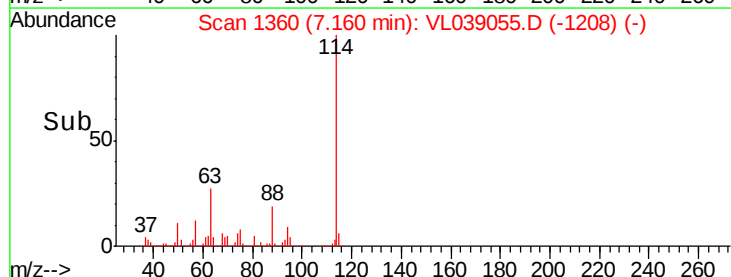
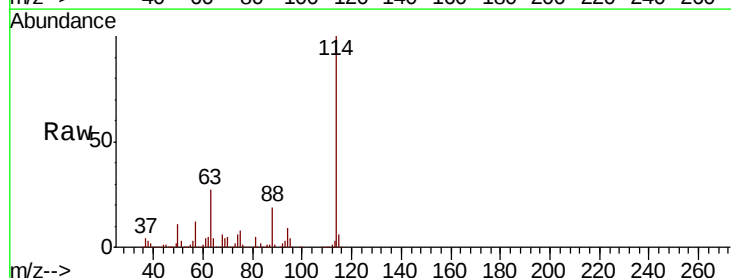
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APPROVED

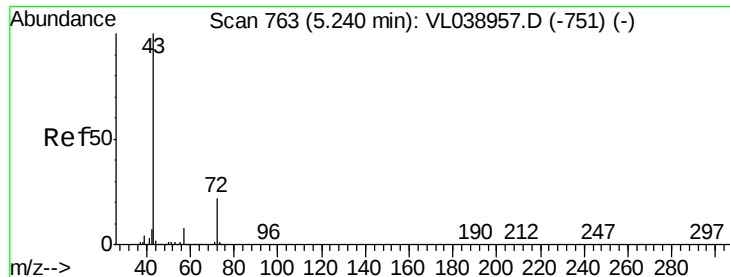
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL039055.D
Acq: 14 May 2022 3:16

Tgt Ion:114 Resp: 2169285
Ion Ratio Lower Upper
114 100
63 28.0 22.6 33.8
88 19.0 15.4 23.0



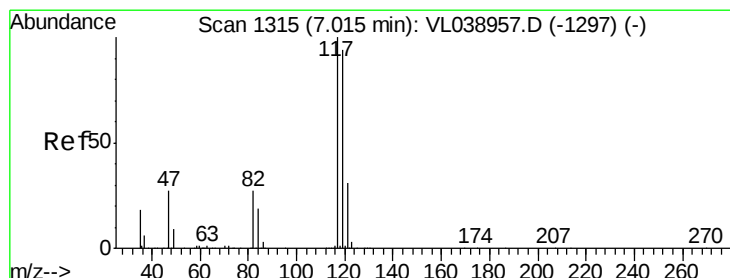
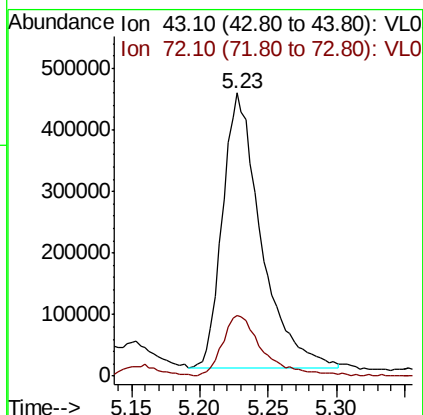
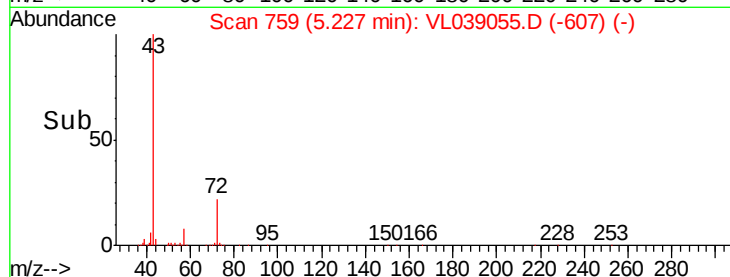
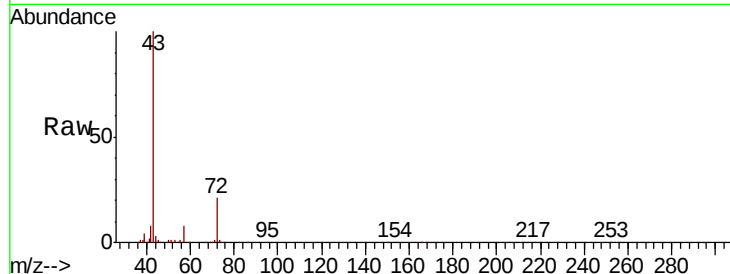


#34
2-Butanone
Concen: 7.933 ppbv
RT: 5.23
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 14 May 2022 3:16

Tot Ion:
Ion Ratio
43 100
72 23.

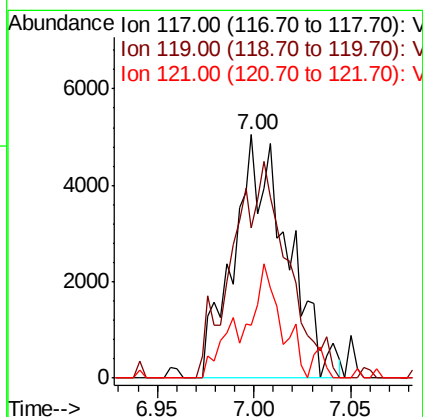
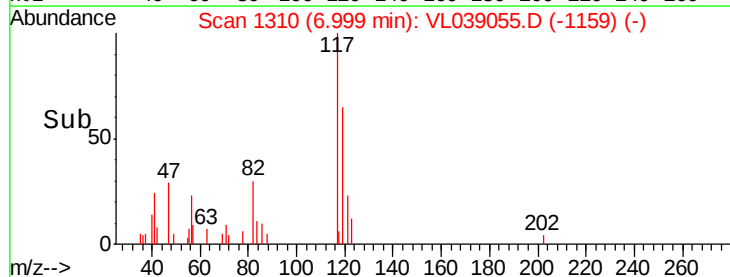
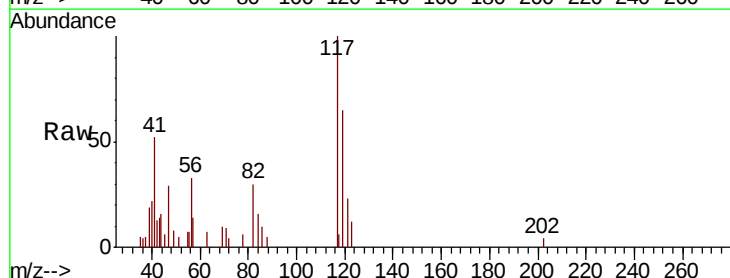
Manual Integrations
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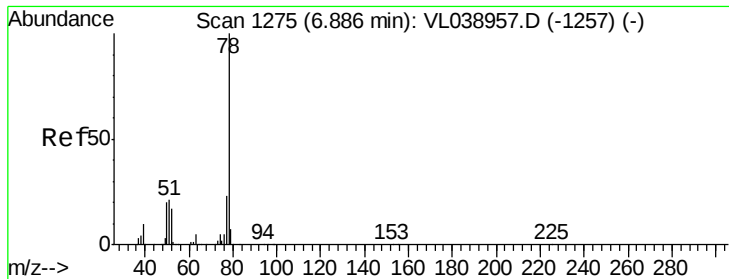
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T.: -0.02 min
Lab File: VL039055.D
Acq: 14 May 2022 3:16

Tgt Ion:117 Resp: 9703
Ion Ratio Lower Upper
117 100
119 65.1 75.2 112.8#
121 22.8 24.6 37.0#





#36

Benzene

Concen: 0.245 ppbv

RT: 6.88

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 3:16

Tot Ion:

Ion Ratio

78 100

77 21.

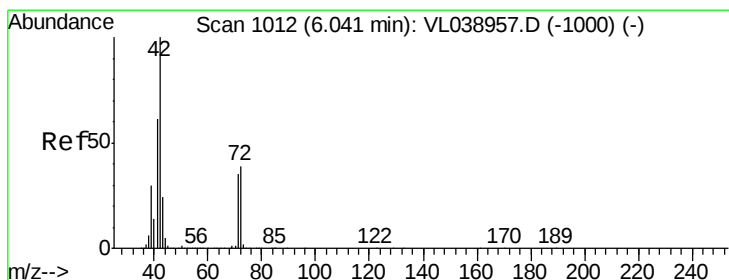
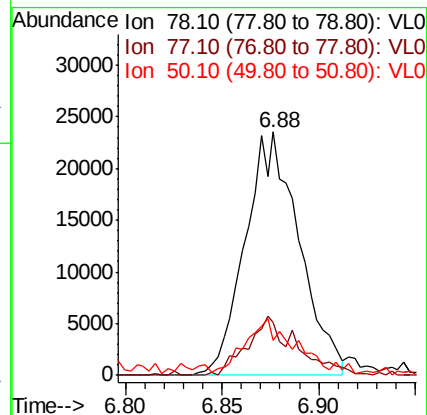
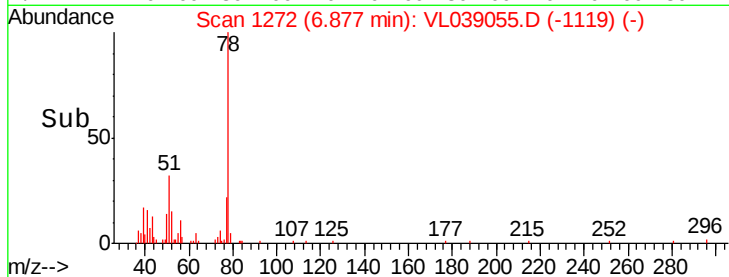
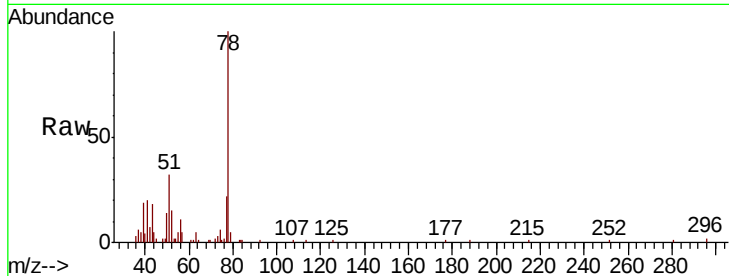
50 12.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#41

Tetrahydrofuran

Concen: 0.239 ppbv m

RT: 6.03 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VL039055.D

Acq: 14 May 2022 3:16

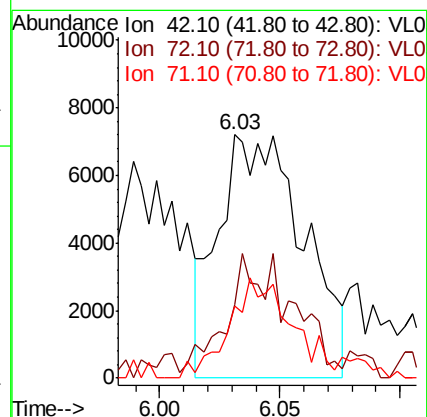
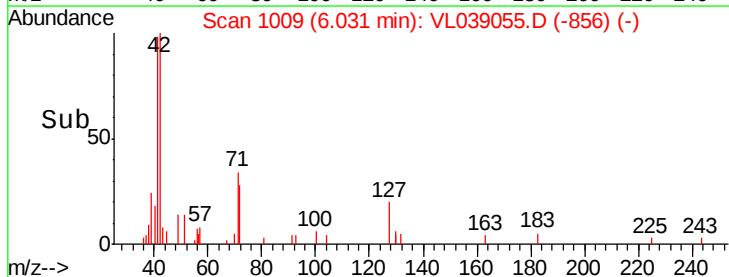
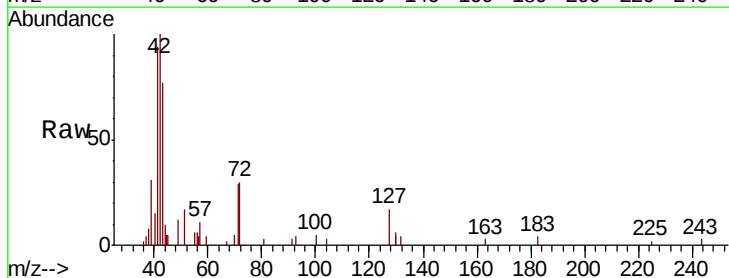
Tgt Ion: 42 Resp: 17744

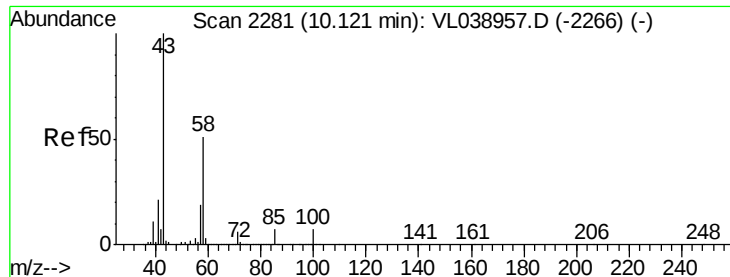
Ion Ratio Lower Upper

42 100

72 49.5 31.8 47.6#

71 33.8 30.6 45.8





#51

2-Hexanone

Concen: 3.383 ppbv

RT: 10.10

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 3:16

Tot Ion:

Ion Ratio

43 100

58 48.

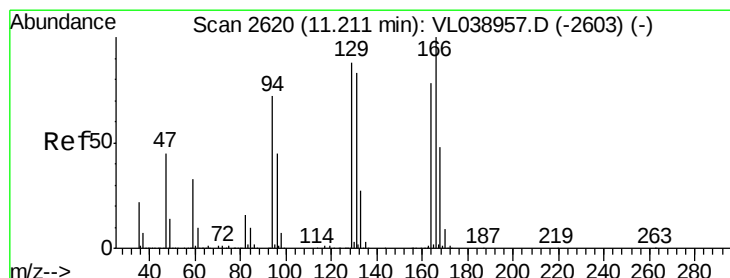
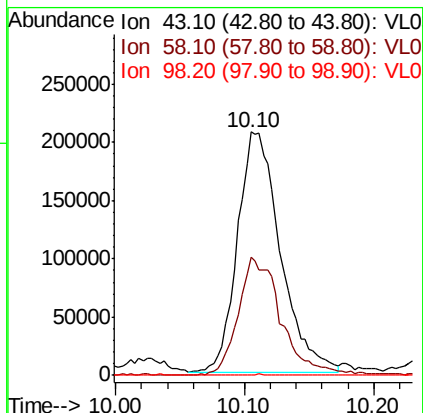
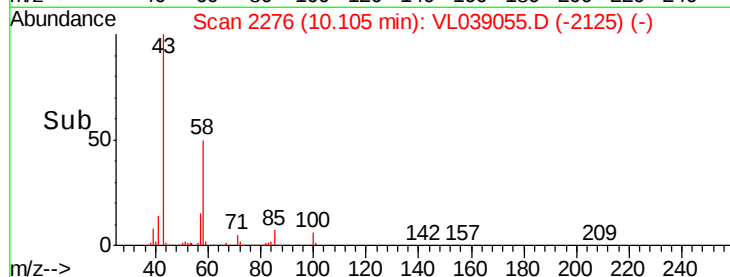
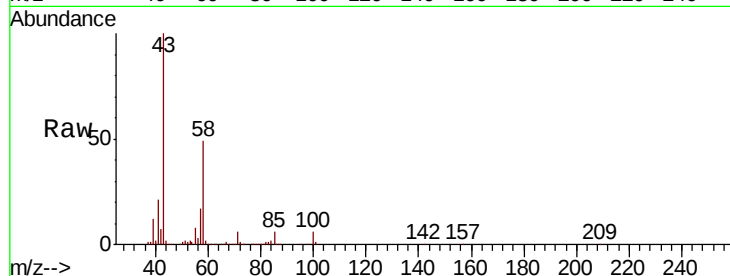
98 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022

Supervised By :Mahesh Dadoda 05/17/2022



#52

Tetrachloroethene

Concen: 0.243 ppbv m

RT: 11.20 min Scan# 2616

Delta R.T. -0.01 min

Lab File: VL039055.D

Acq: 14 May 2022 3:16

Tgt Ion:164 Resp: 16117

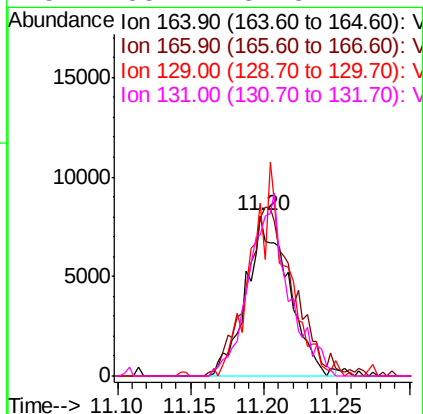
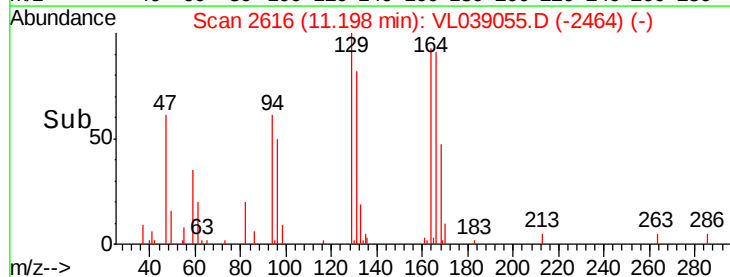
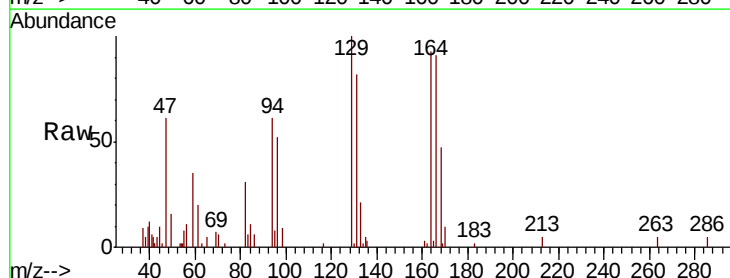
Ion Ratio Lower Upper

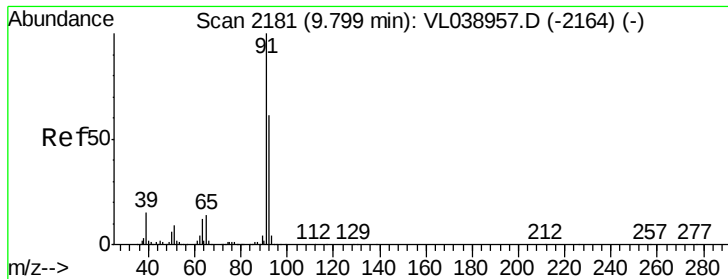
164 100

166 98.0 102.5 153.7#

129 108.0 90.1 135.1

131 88.1 84.8 127.2



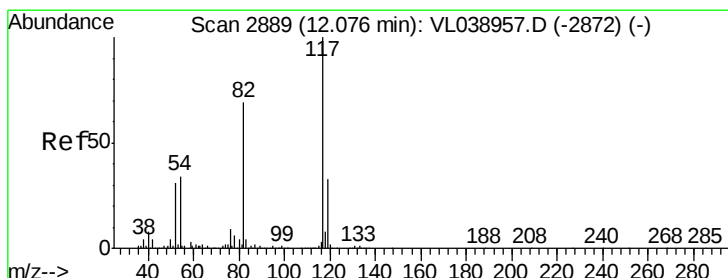
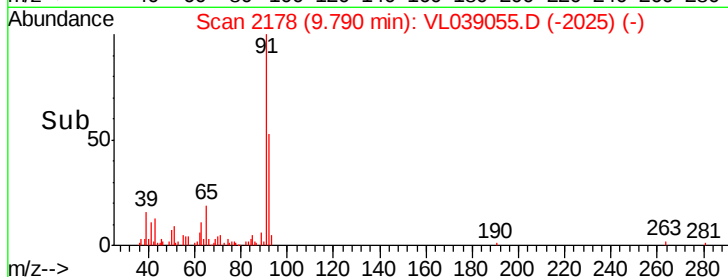
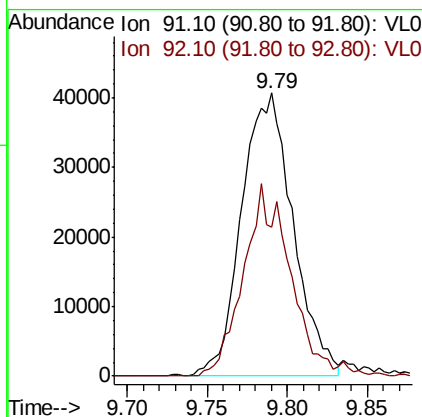
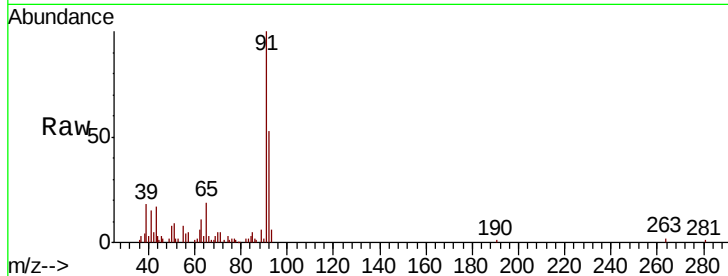


#53
Toluene
Concen: 0.431 ppbv
RT: 9.79
Delta R.T.: MSVOA_L
Lab File: ClientSampled:
SV1
Acq: 14 May 2022 3:16

Tot Ion:
Ion Ratio
91 100
92 62.

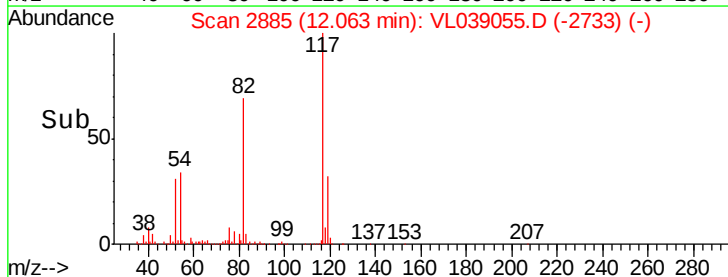
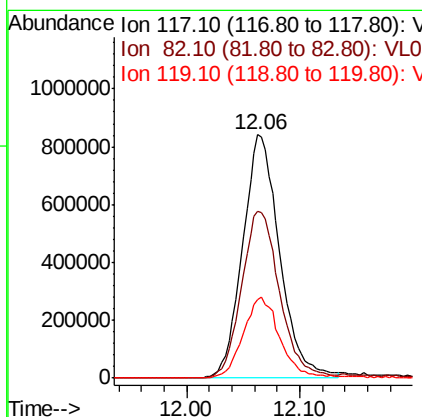
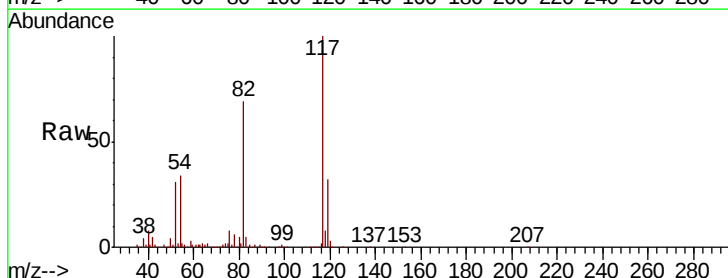
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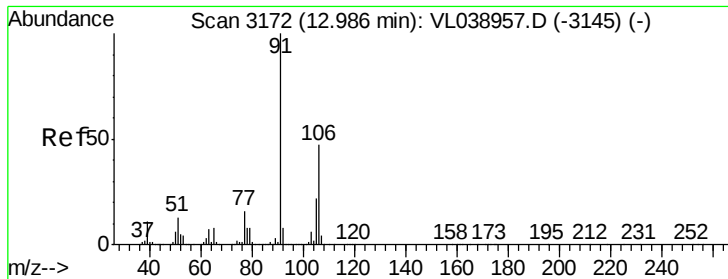
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.01 min
Lab File: VL039055.D
Acq: 14 May 2022 3:16

Tgt Ion:117 Resp: 1918619
Ion Ratio Lower Upper
117 100
82 72.7 57.0 85.6
119 33.9 27.2 40.8



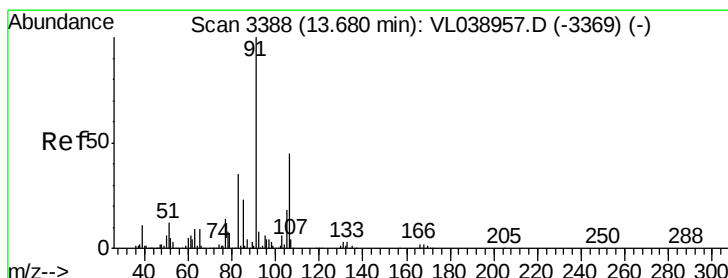
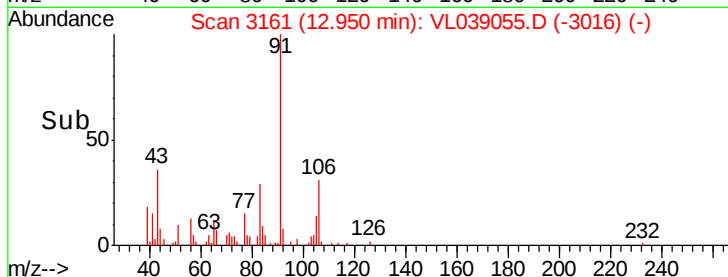
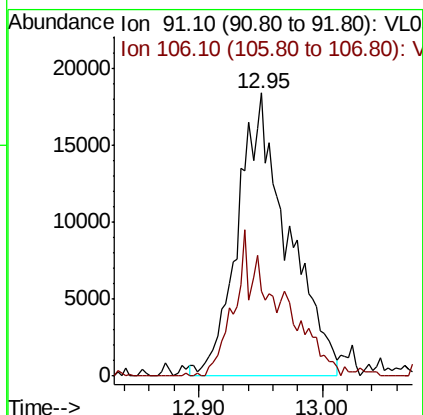
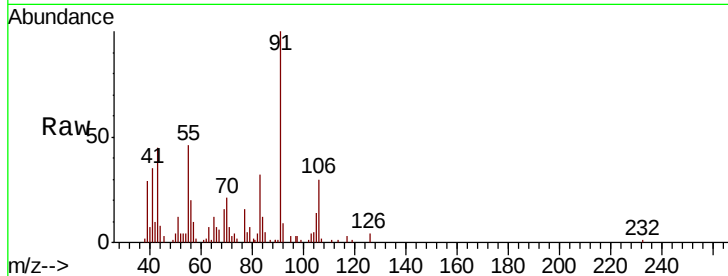


#59
m/p-Xylene
Concen: 0.219 ppbv m
RT: 12.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1
Acq: 14 May 2022 3:10

Tot Ion:
Ion Ratio
91 100
106 0.

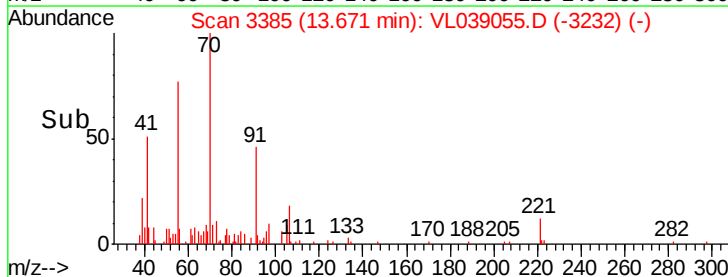
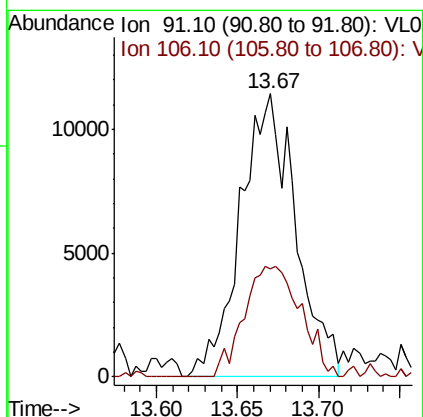
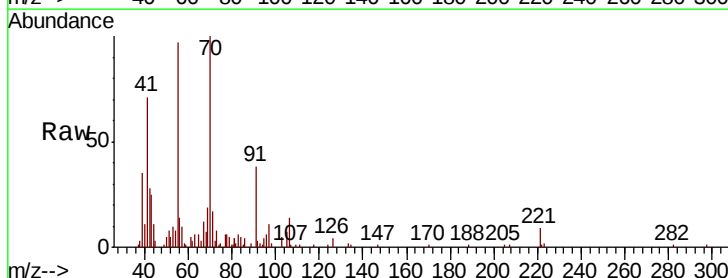
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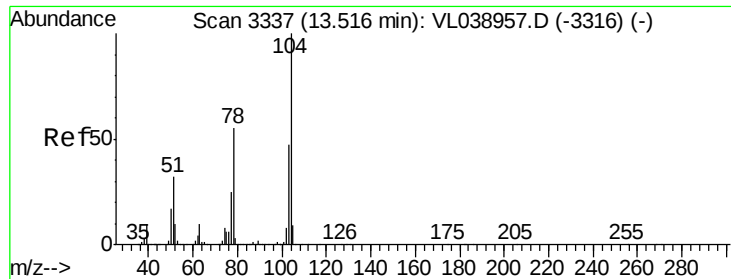
Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#60
o-Xylene
Concen: 0.122 ppbv m
RT: 13.67 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL039055.D
Acq: 14 May 2022 3:16

Tgt Ion: 91 Resp: 27050
Ion Ratio Lower Upper
91 100
106 40.8 22.2 66.6





#61

Stvrene

Concen: 0.129 ppbv m

RT: 13.50

Delta R.T. MSVOA_L

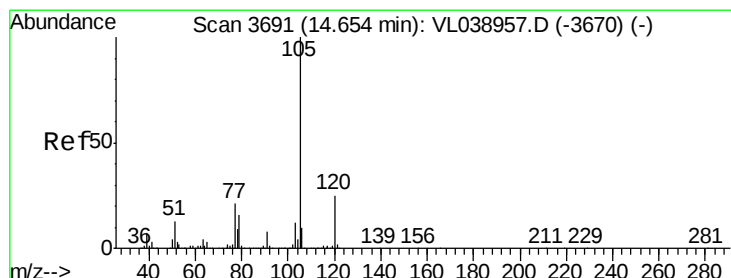
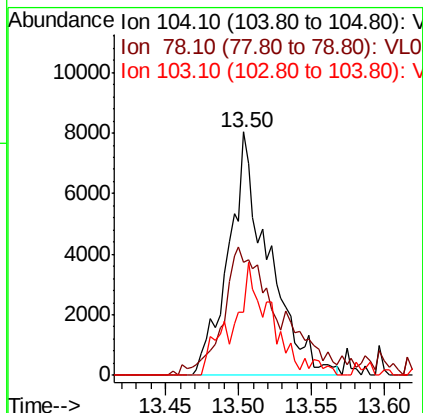
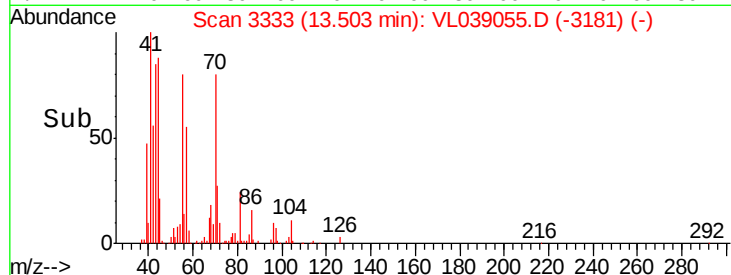
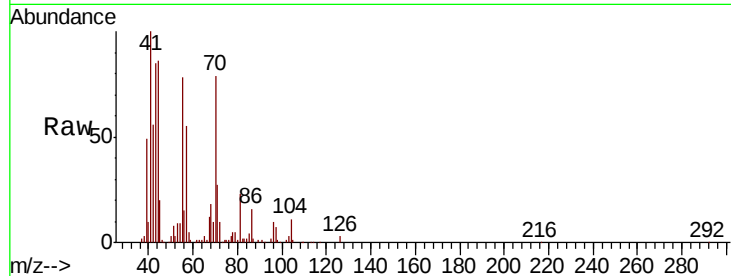
Lab File: ClientSampleId :

Acq: 14 May 2022 3:10

Tot Ion:1
Ion Rati
104 100
78 81.
103 46.

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Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#62

Isopropylbenzene

Concen: 0.130 ppbv

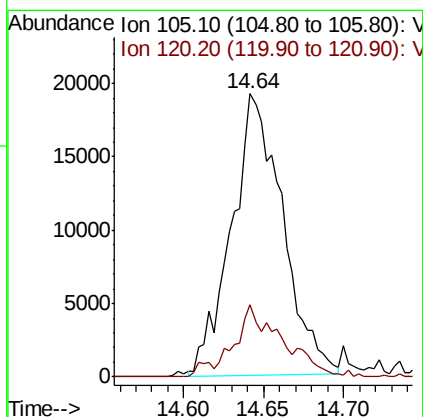
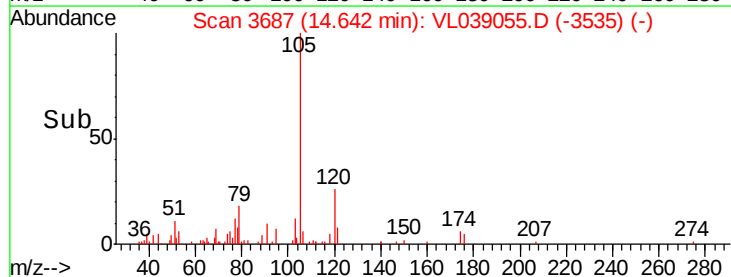
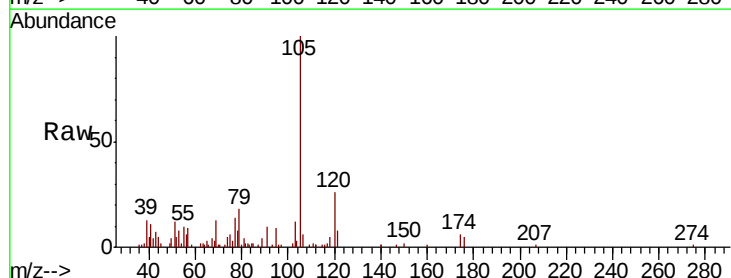
RT: 14.64 min Scan# 3687

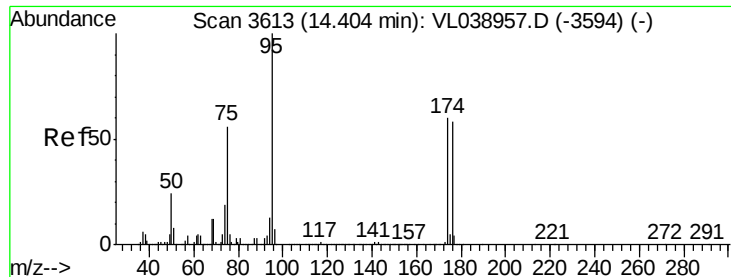
Delta R.T. -0.01 min

Lab File: VL039055.D

Acq: 14 May 2022 3:16

Tgt Ion:105 Resp: 42086
Ion Ratio Lower Upper
105 100
120 24.9 20.5 30.7



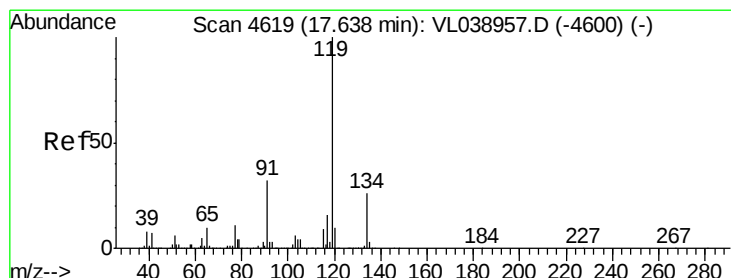
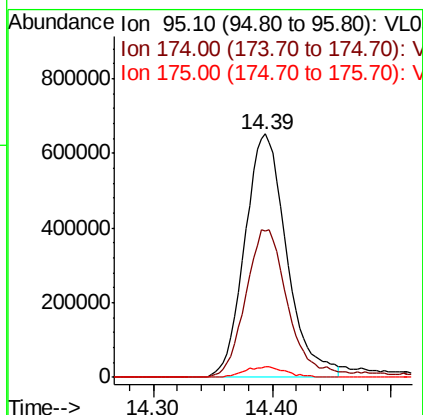
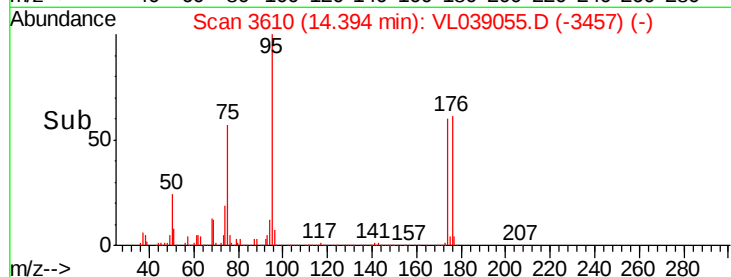
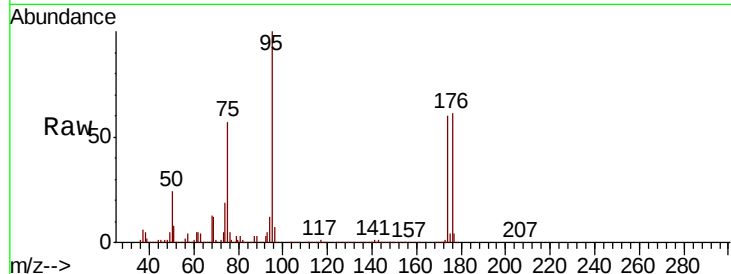


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.452 ppbv
 RT: 14.39 min
 Delta R.T.: 0.01 min
 Lab File: VL039055.D
 Acq: 14 May 2022 3:16

Tot Ion:
 Ion Ratio
 95 100
 174 64.1
 175 4.1

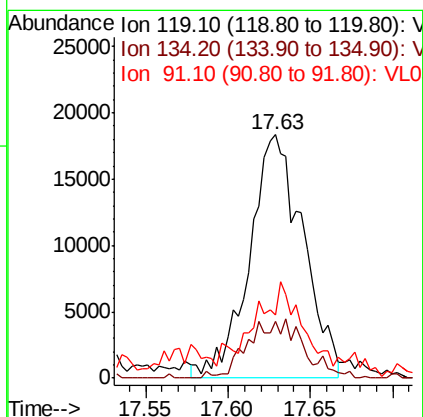
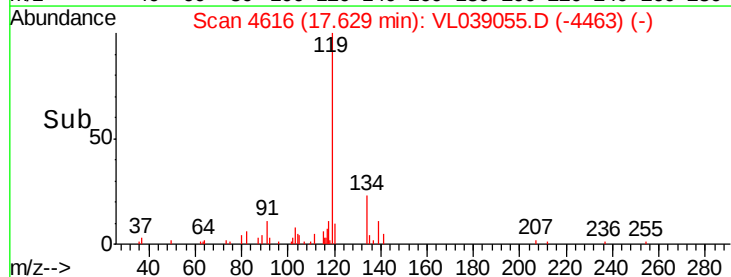
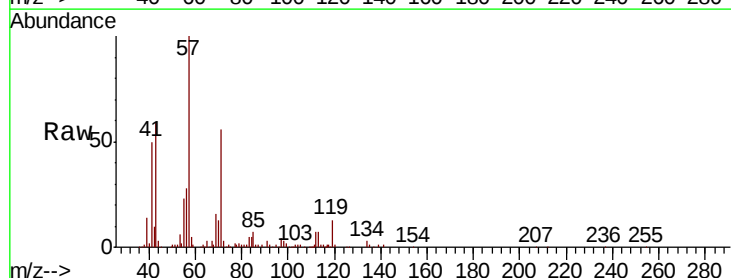
Manual Integrations
 APPROVED

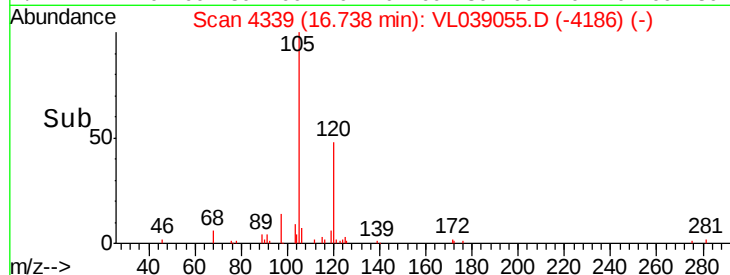
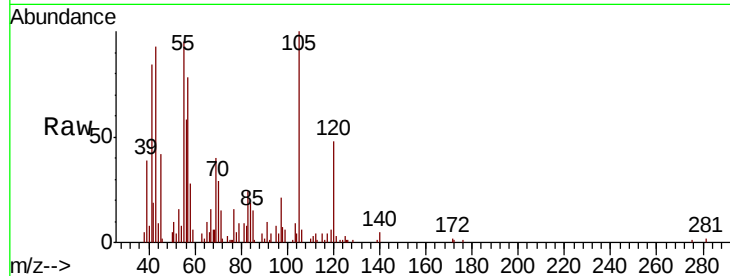
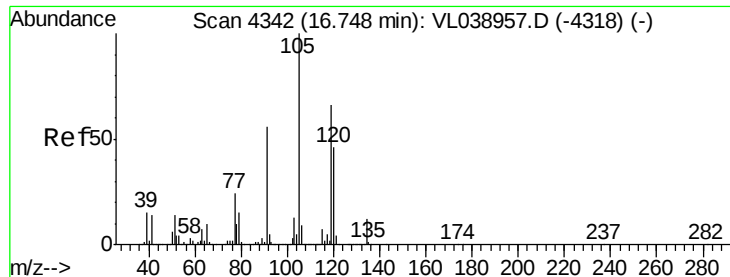
Reviewed By :Semsettin Yesilyurt 05/16/2022
 Supervised By :Mahesh Dadoda 05/17/2022



#69
 p-Isopropyltoluene
 Concen: 0.126 ppbv m
 RT: 17.63 min Scan# 4616
 Delta R.T.: -0.01 min
 Lab File: VL039055.D
 Acq: 14 May 2022 3:16

Tgt Ion:119 Resp: 41473
 Ion Ratio Lower Upper
 119 100
 134 25.0 20.0 30.0
 91 41.3 24.8 37.2#



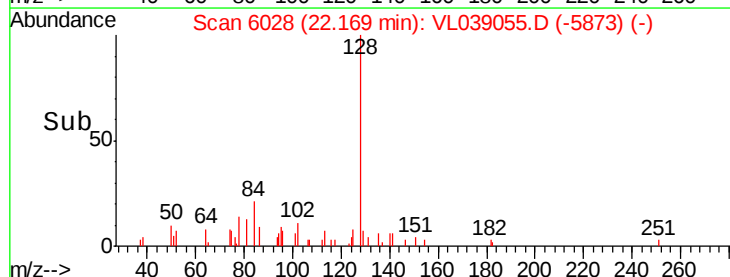
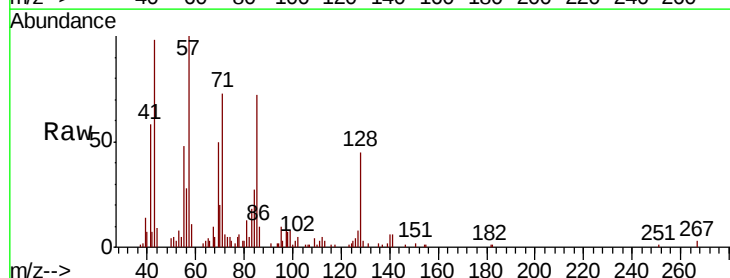
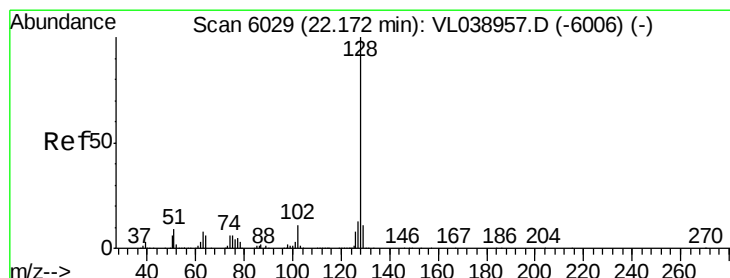
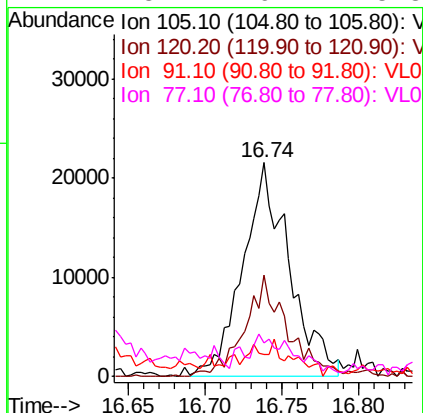


#74
1,2,4-Trimethylbenzene
Concen: 0.182 ppbv m
RT: 16.74
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 14 May 2022 3:16

Tot Ion:1
Ion Ratio
105 100
120 47.
91 9.
77 15.7 19.2 28.8#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/16/2022
Supervised By :Mahesh Dadoda 05/17/2022



#79
Naphthalene
Concen: 0.100 ppbv m
RT: 22.17 min Scan# 6028
Delta R.T. -0.00 min
Lab File: VL039055.D
Acq: 14 May 2022 3:16

Tgt Ion:128 Resp: 20280
Ion Ratio Lower Upper
128 100
127 18.3 10.2 15.2#
129 7.2 8.9 13.3#

