

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050621\
 Data File : VL036902.D
 Acq On : 6 May 2021 14:13
 Operator : SY/AP
 Sample : M2262-13 0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/08/2021
 Supervised By : Mahesh Dadoda 05/10/2021

Quant Time: May 08 18:02:12 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1436531	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	3337930	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2858838	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2329981	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	38841	0.172	ppbv	90
3) Chlorodifluoromethane	2.99	51	33533	0.128	ppbv	98
4) Chloromethane	3.14	50	10770m	0.125	ppbv	
5) Vinyl Chloride	3.26	62	10054m	0.116	ppbv	
6) Bromomethane	3.48	94	5633	0.121	ppbv #	60
7) Chloroethane	3.56	64	4042m	0.142	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	27849	0.135	ppbv	99
9) Propene	3.02	41	13226m	0.166	ppbv	
10) Heptane	8.12	43	10152m	0.051	ppbv	
11) Trichlorofluoromethane	3.96	101	28974m	0.143	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.49	101	17024m	0.126	ppbv	
14) Bromoethene	3.75	108	6806m	0.123	ppbv	
15) Acetone	3.89	43	31552m	0.233	ppbv	
16) 1,3-Butadiene	3.33	39	11978m	0.138	ppbv	
17) tert-Butyl alcohol	4.38	59	12161m	0.111	ppbv	
18) 1,1-Dichloroethene	4.29	96	7157m	0.122	ppbv	
20) Methylene Chloride	4.35	84	15862m	0.245	ppbv	
22) trans-1,2-Dichloroethene	4.90	96	7318m	0.124	ppbv	
24) 1,1-Dichloroethane	5.02	63	17678m	0.135	ppbv	
25) Ethyl Acetate	5.71	43	30753m	0.093	ppbv	
26) Hexane	5.69	57	14558m	0.094	ppbv	
27) Carbon Disulfide	4.56	76	13293m	0.099	ppbv	
28) Methyl tert-Butyl Ether	5.07	73	12968m	0.095	ppbv	
29) Chloroform	5.75	83	30105m	0.125	ppbv	
30) Cyclohexane	7.17	84	17975m	0.146	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	12179m	0.088	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	26713m	0.109	ppbv	
34) 2-Butanone	5.21	43	16313m	0.112	ppbv	
35) Carbon Tetrachloride	7.02	117	28975m	0.128	ppbv	
36) Benzene	6.89	78	20140m	0.072	ppbv	
37) 1,2-Dichloroethane	6.32	62	17626m	0.111	ppbv	
38) Trichloroethene	7.85	130	10623m	0.106	ppbv	
39) 1,2-Dichloropropane	7.62	63	13436m	0.119	ppbv	
42) Bromodichloromethane	7.80	83	27533m	0.124	ppbv	
43) Methyl Methacrylate	8.03	69	4671m	0.051	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	33865m	0.070	ppbv	
45) t-1,3-Dichloropropene	9.29	75	5937m	0.060	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	8402m	0.066	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	14286m	0.122	ppbv	
48) Dibromochloromethane	10.31	129	15973m	0.092	ppbv	
49) Bromoform	13.03	173	12722m	0.092	ppbv	

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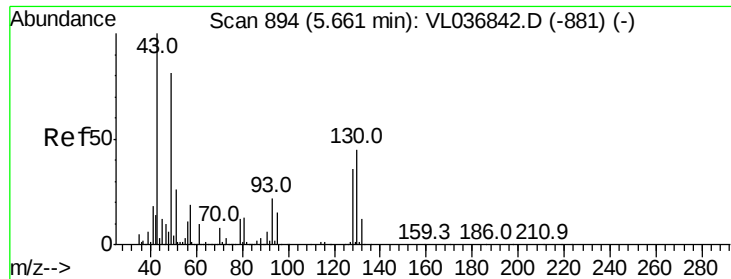
Reviewed By :Semsettin Yesilyurt 05/08/2021
 Supervised By :Mahesh Dadoda 05/10/2021

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

50) 4-Methyl-2-Pentanone	8.81	43	12382m	0.062	ppbv	
52) Tetrachloroethene	11.24	164	9283m	0.097	ppbv	
53) Toluene	9.81	91	18557m	0.063	ppbv	
54) 1,2-Dibromoethane	10.62	107	15004m	0.091	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	16926m	0.141	ppbv	
57) Chlorobenzene	12.15	112	28716m	0.129	ppbv	
58) Ethyl Benzene	12.71	91	20421m	0.056	ppbv	
59) m/p-Xylene	13.00	91	36019m	0.111	ppbv	
60) o-Xylene	13.70	91	20424m	0.065	ppbv	
61) Styrene	13.53	104	7847m	0.053	ppbv	
62) Isopropylbenzene	14.67	105	31472m	0.074	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.69	83	31720m	0.126	ppbv	
64) n-propylbenzene	15.57	120	5847m	0.055	ppbv	
65) tert-Butylbenzene	16.75	119	20632m	0.055	ppbv	
67) sec-Butylbenzene	17.31	105	28413m	0.054	ppbv	
69) p-Isopropyltoluene	17.67	119	19077m	0.045	ppbv	
70) n-Butylbenzene	18.57	91	19468m	0.046	ppbv	
71) 2-Chlorotoluene	15.46	91	18908m	0.060	ppbv	
72) 4-Ethyltoluene	15.84	105	17303m	0.051	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	18879m	0.058	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	18376m	0.053	ppbv	
75) 1,3-Dichlorobenzene	17.01	146	20279m	0.099	ppbv	
76) 1,4-Dichlorobenzene	17.16	146	17115m	0.085	ppbv	
77) 1,2-Dichlorobenzene	17.83	146	16490m	0.082	ppbv	
78) Hexachloro-1,3-Butadiene	23.39	225	23154m	0.136	ppbv	
81) 1,2,4-Trichlorobenzene	21.95	180	5940m	0.047	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13

Tot Ion:

Ion Ratio

49 100

128 45.

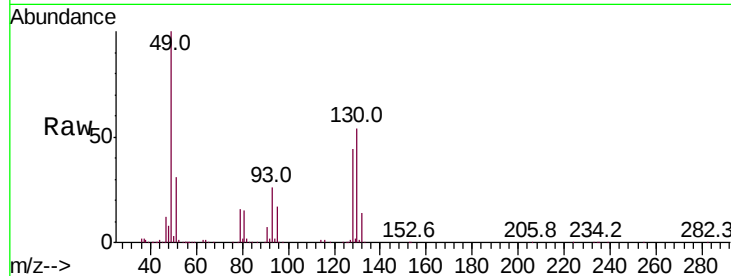
130 58.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/08/2021

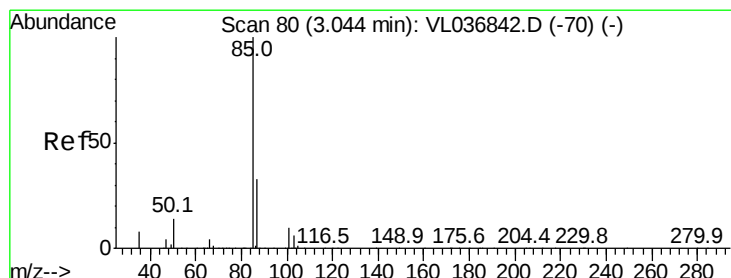
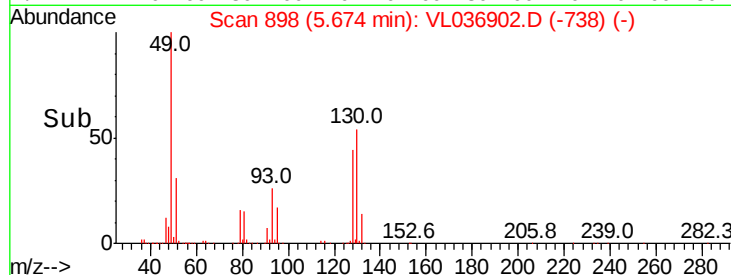
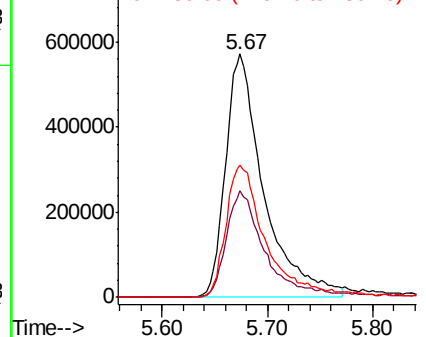
Supervised By :Mahesh Dadoda 05/10/2021



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.172 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036902.D

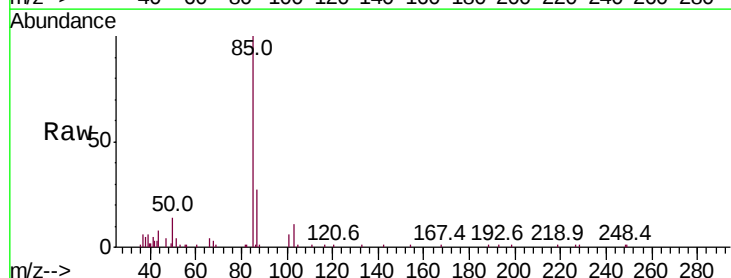
Acq: 6 May 2021 14:13

Tgt Ion: 85 Resp: 38841

Ion Ratio Lower Upper

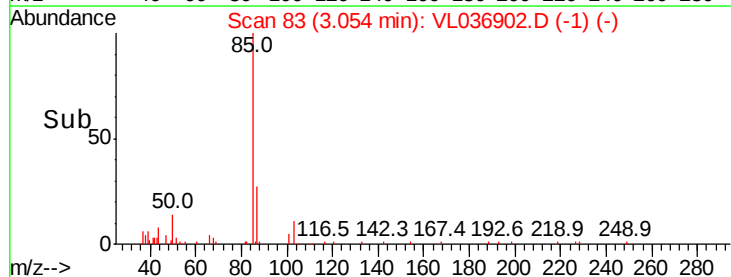
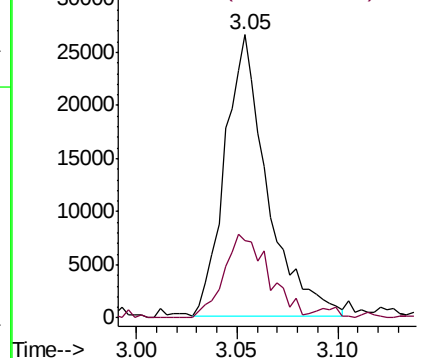
85 100

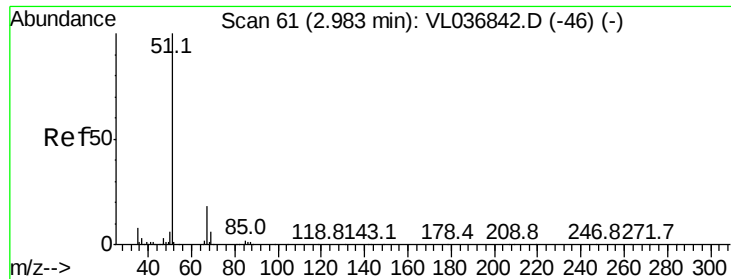
87 27.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



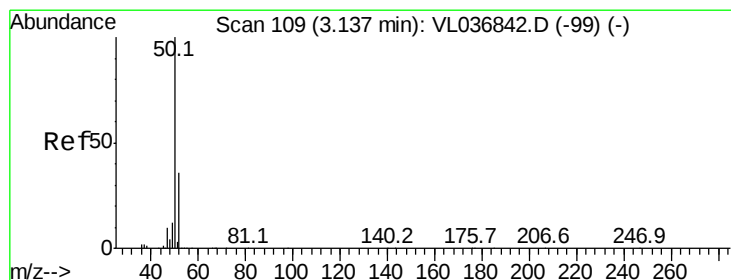
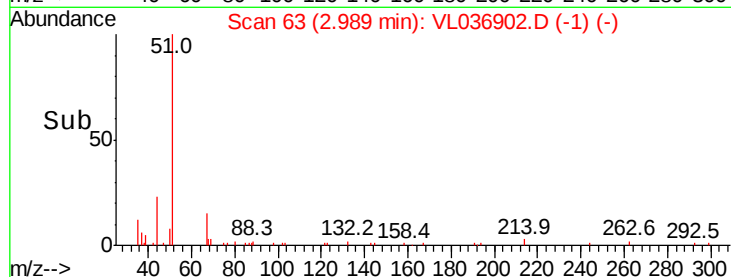
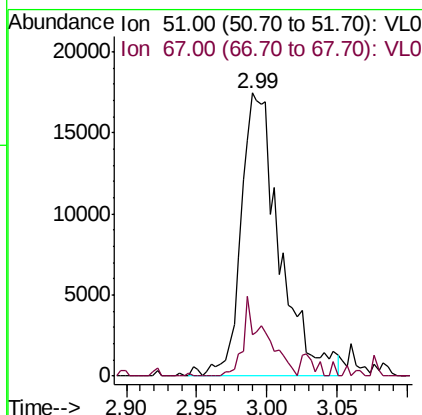
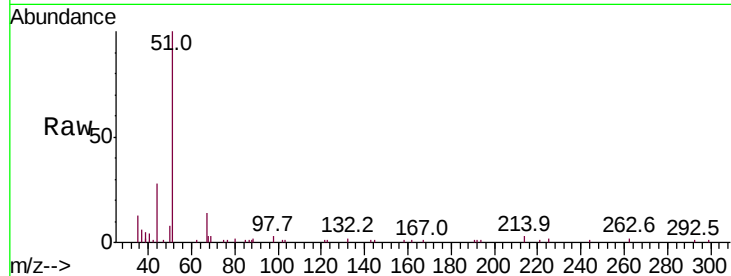


#3
Chlorodifluoromethane
Concen: 0.128 ppbv
RT: 2.99
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 6 May 2021 14:13
LOD-MDL-AIR-01-QT2-2021

Tot Ion:
Ion Ratio
51 100
67 19.

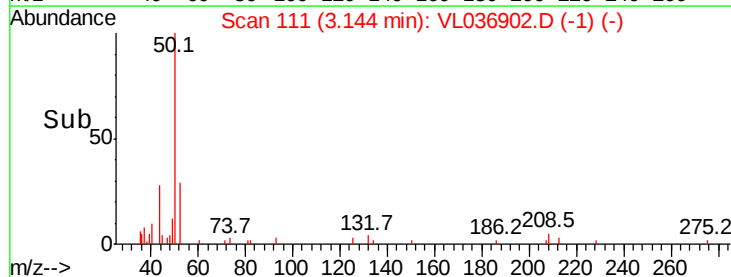
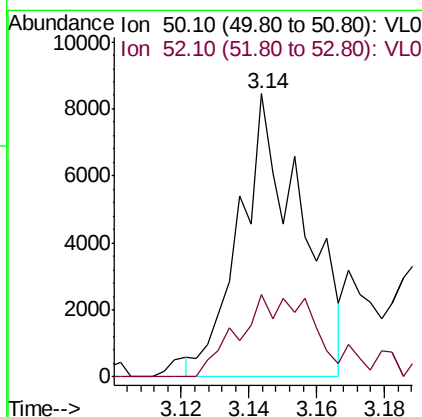
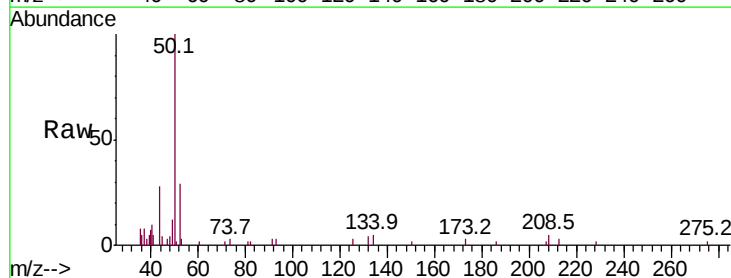
Manual Integrations
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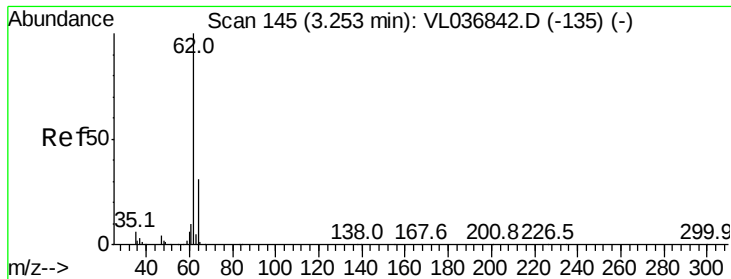
Reviewed By :Semsettin Yesilyurt 05/08/2021
Supervised By :Mahesh Dadoda 05/10/2021



#4
Chloromethane
Concen: 0.125 ppbv m
RT: 3.14 min Scan# 111
Delta R.T. 0.01 min
Lab File: VL036902.D
Acq: 6 May 2021 14:13

Tgt Ion: 50 Resp: 10770
Ion Ratio Lower Upper
50 100
52 29.2 28.5 42.7





#5

Vinyl Chloride

Concen: 0.116 ppbv m

RT: 3.26 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:

Ion Ratio

62 100

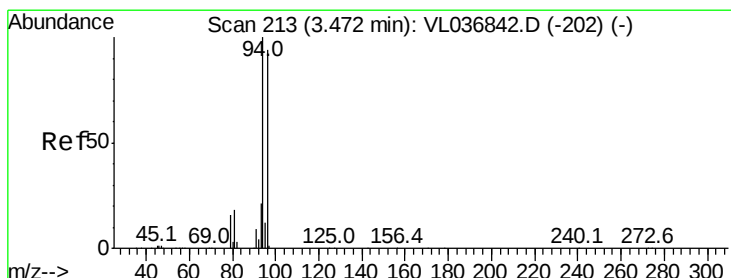
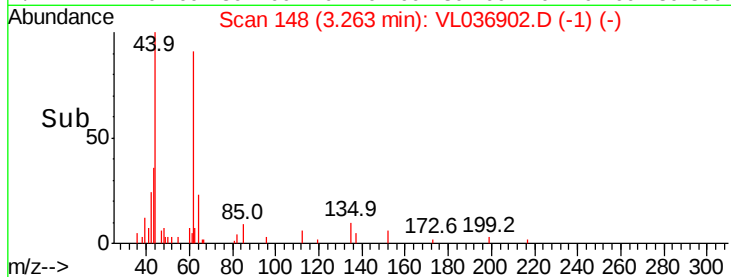
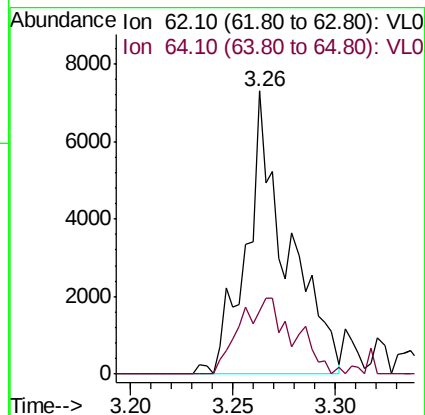
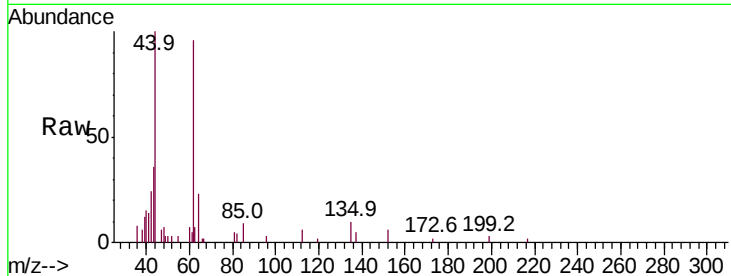
64 24.

Manual Integrations

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Supervised By :Mahesh Dadoda 05/10/2021



#6

Bromomethane

Concen: 0.121 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.01 min

Lab File: VL036902.D

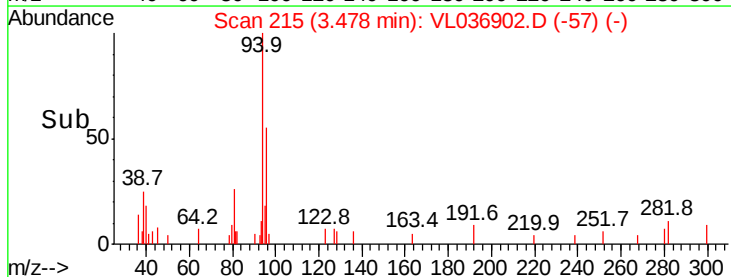
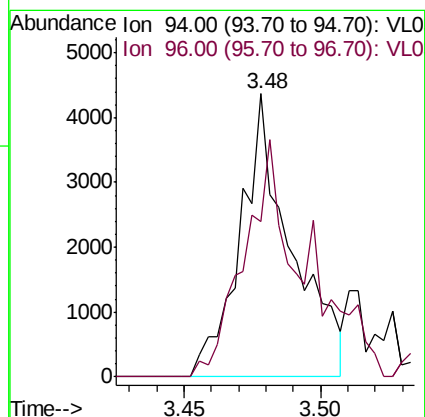
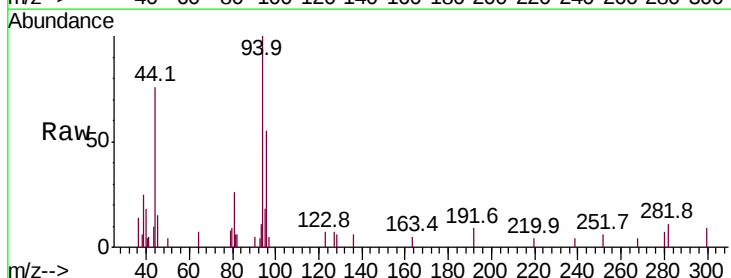
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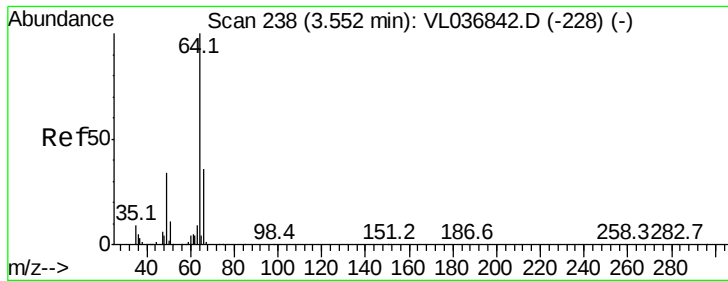
Tgt Ion: 94 Resp: 5633

Ion Ratio Lower Upper

94 100

96 55.1 75.4 113.0#





#7

Chloroethane

Concen: 0.142 ppbv m

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:

Ion Ratio

64 100

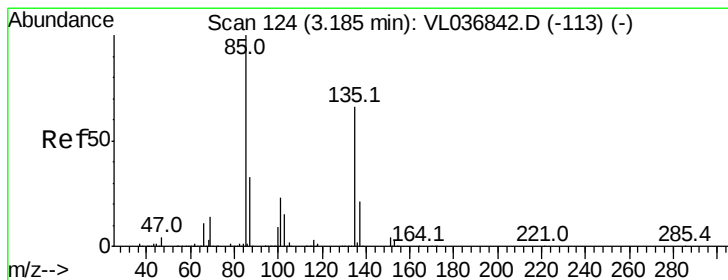
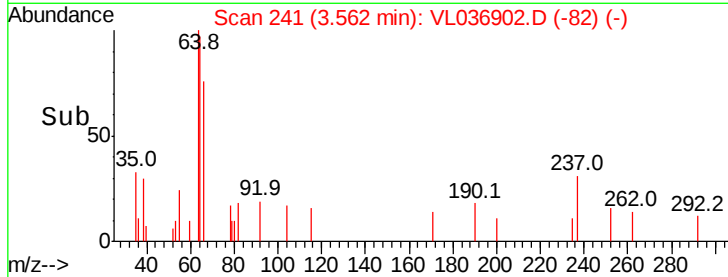
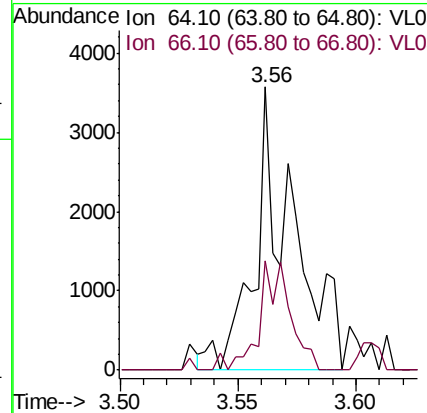
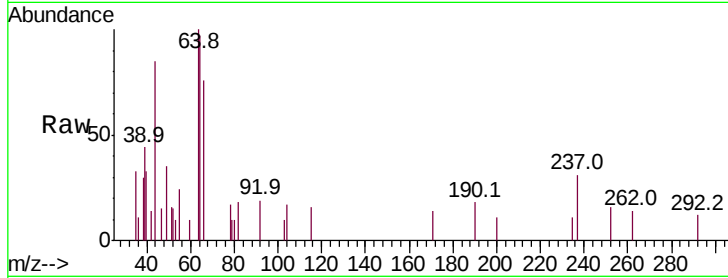
66 76.

Manual Integrations

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Supervised By :Mahesh Dadoda 05/10/2021



#8

Dichlorotetrafluoroethane

Concen: 0.135 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.01 min

Lab File: VL036902.D

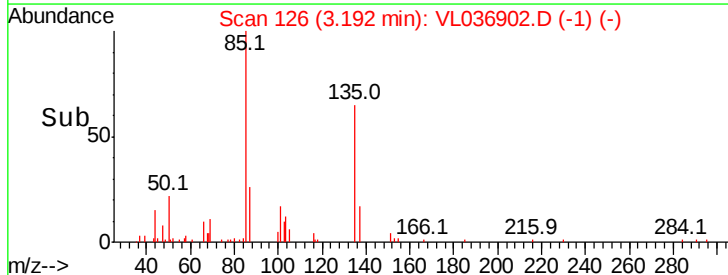
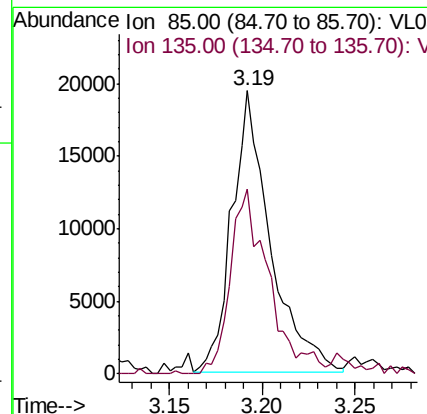
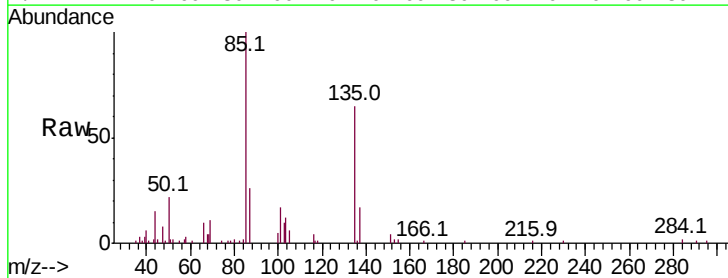
Acq: 6 May 2021 14:13

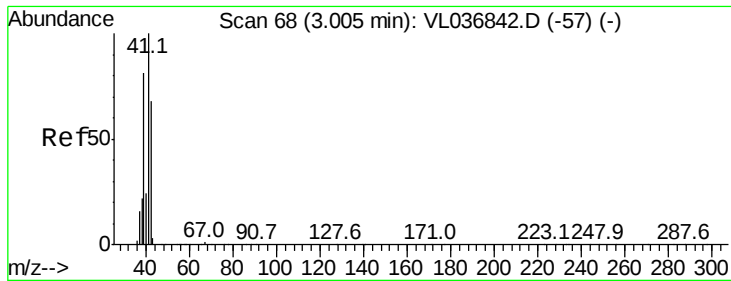
Tgt Ion: 85 Resp: 27849

Ion Ratio Lower Upper

85 100

135 71.2 56.2 84.4





#9

Propene

Concen: 0.166 ppbv m

RT: 3.02

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 May 2021 14:13

Tot Ion:

Ion Ratio

41 100

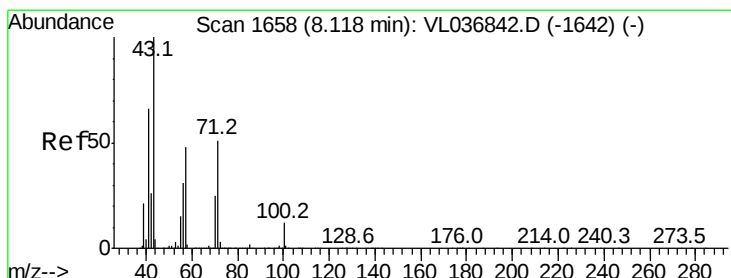
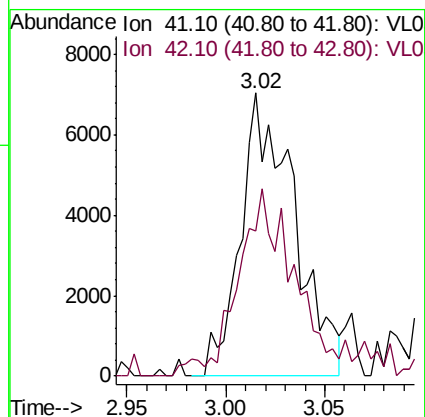
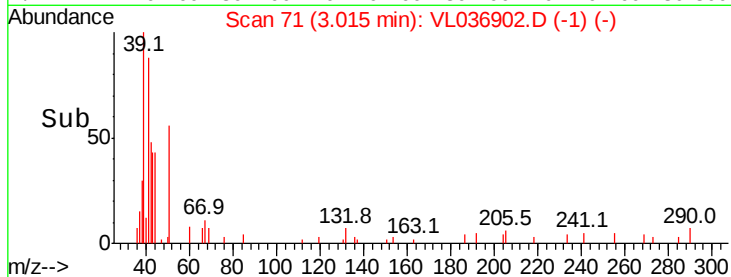
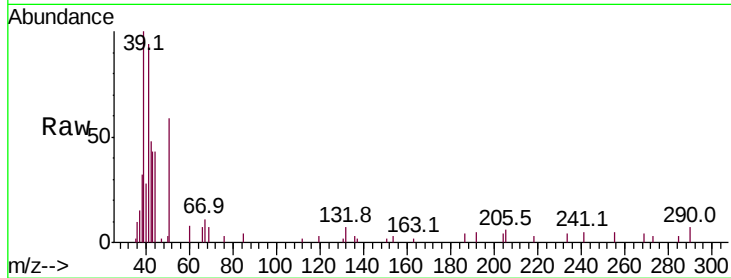
42 0.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#10

Heptane

Concen: 0.051 ppbv m

RT: 8.12 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VL036902.D

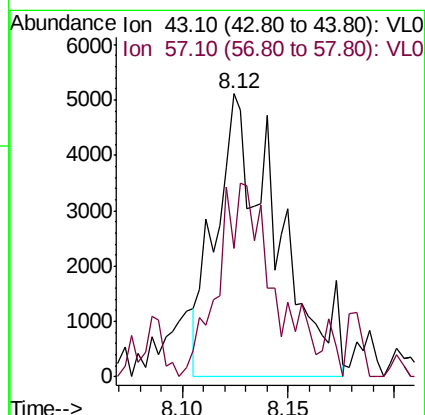
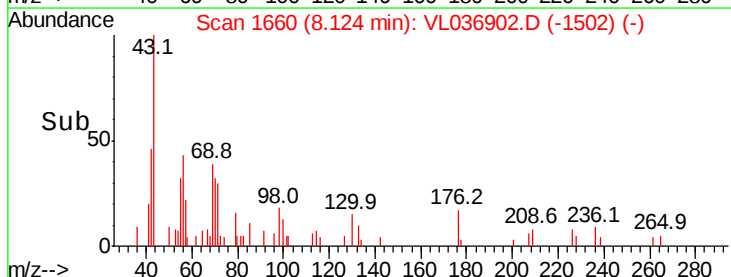
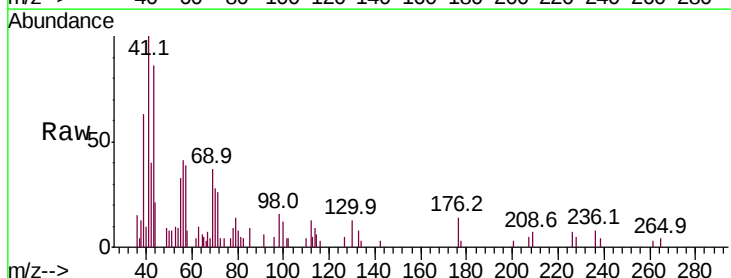
Acq: 6 May 2021 14:13

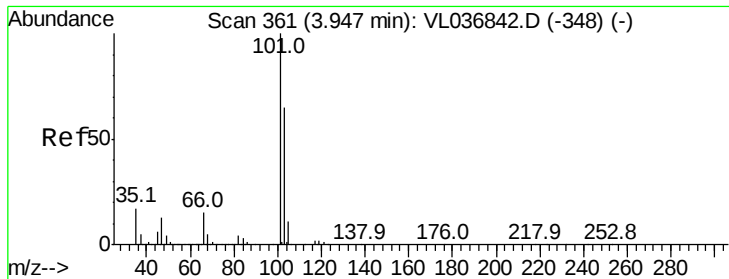
Tgt Ion: 43 Resp: 10152

Ion Ratio Lower Upper

43 100

57 0.0 38.8 58.2#





#11

Trichlorofluoromethane

Concen: 0.143 ppbv m

RT: 3.96 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:1

Ion Rati

101 100

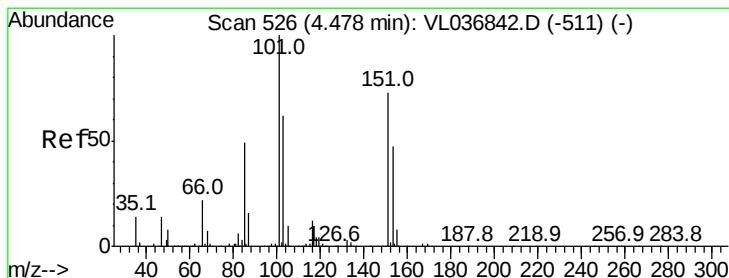
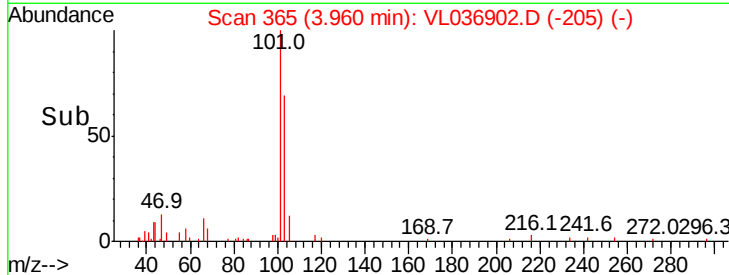
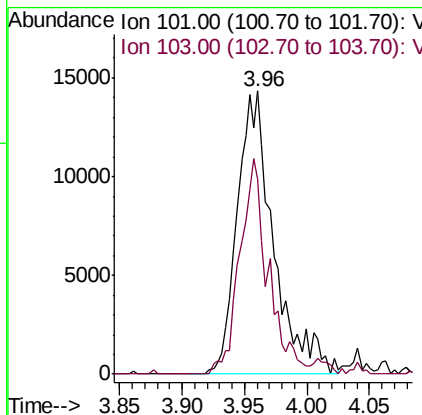
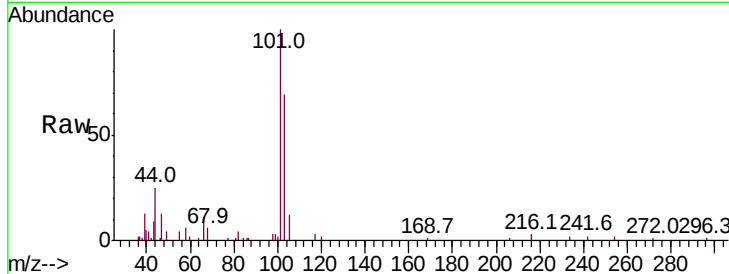
103 69.

Manual Integrations

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Supervised By :Mahesh Dadoda 05/10/2021



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.126 ppbv m

RT: 4.49 min Scan# 531

Delta R.T. 0.02 min

Lab File: VL036902.D

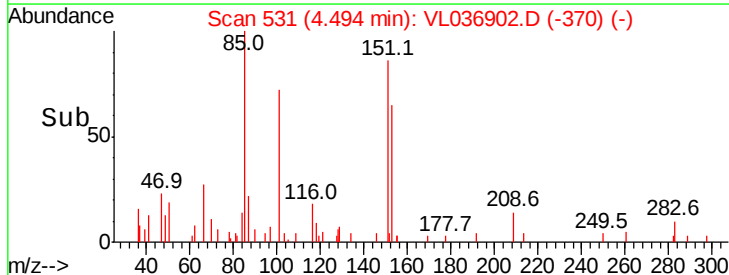
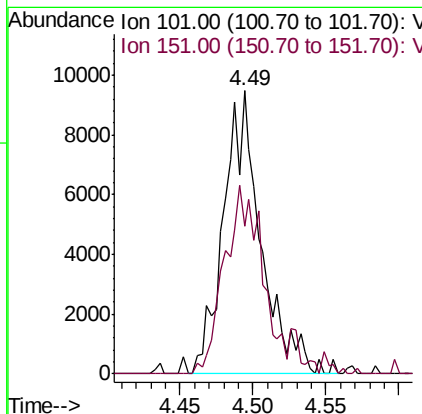
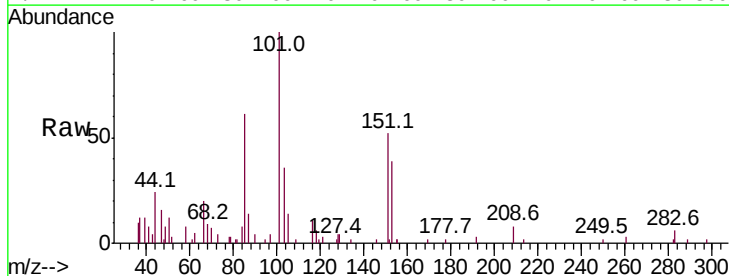
Acq: 6 May 2021 14:13

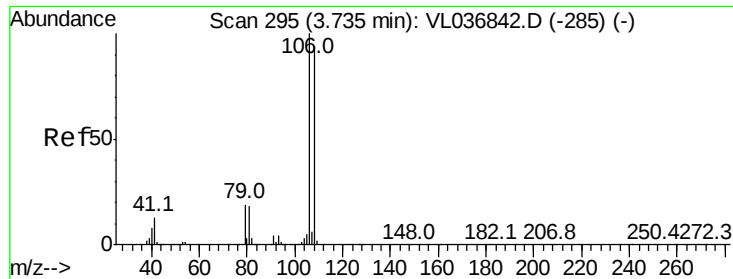
Tgt Ion:101 Resp: 17024

Ion Ratio Lower Upper

101 100

151 73.1 61.1 91.7





#14

Bromoethene

Concen: 0.123 ppbv m

RT: 3.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:1

Ion Rati

108 100

106 0.

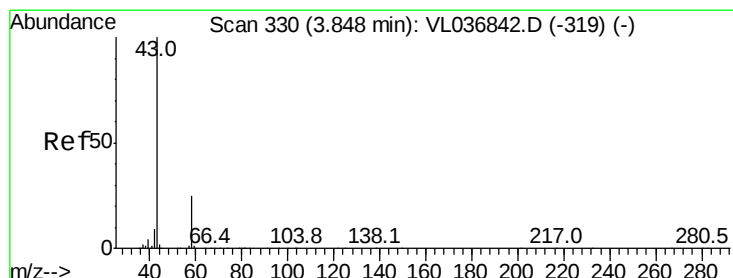
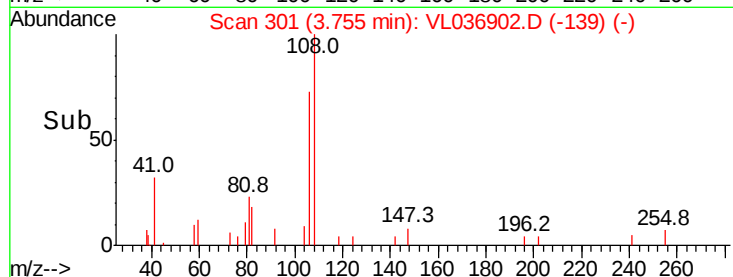
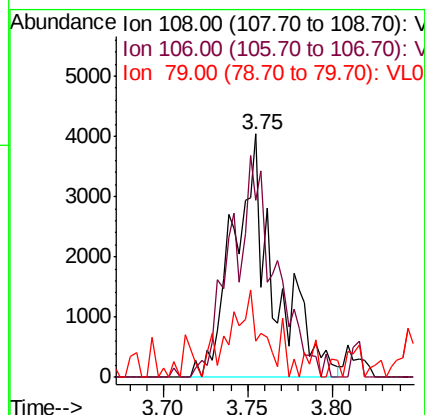
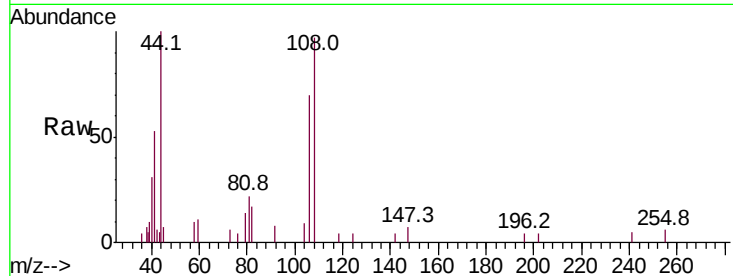
79 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#15

Acetone

Concen: 0.233 ppbv m

RT: 3.89 min Scan# 343

Delta R.T. 0.04 min

Lab File: VL036902.D

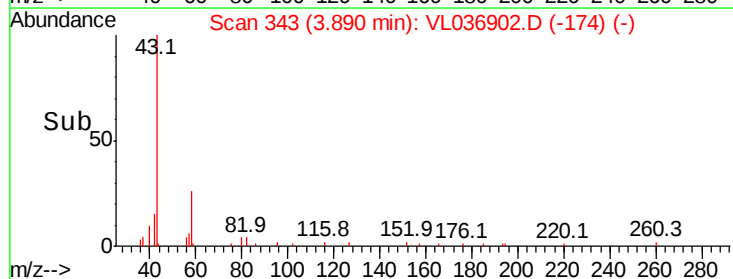
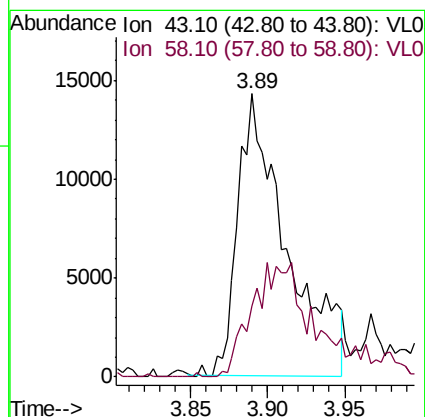
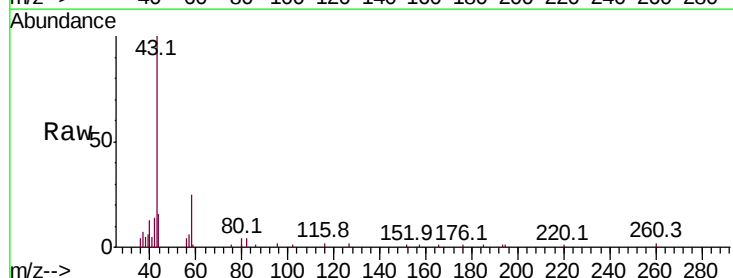
Acq: 6 May 2021 14:13

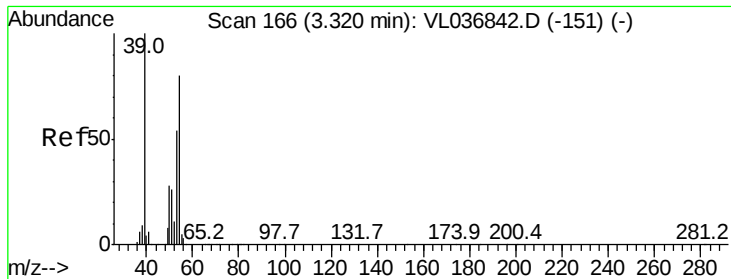
Tgt Ion: 43 Resp: 31552

Ion Ratio Lower Upper

43 100

58 0.0 21.7 32.5#





#16

1,3-Butadiene

Concen: 0.138 ppbv m

RT: 3.33 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:

Ion Ratio

39 100

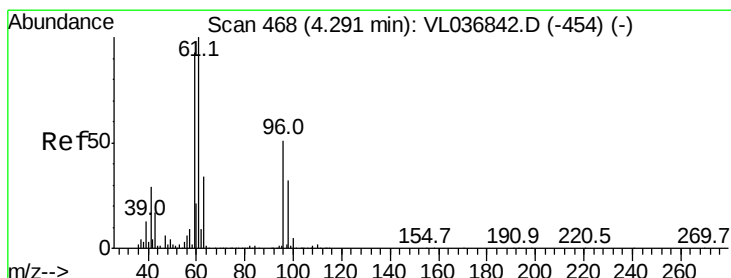
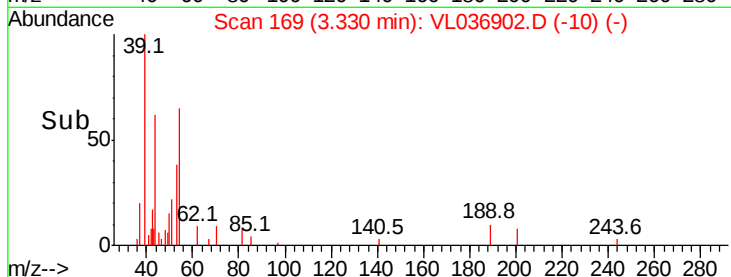
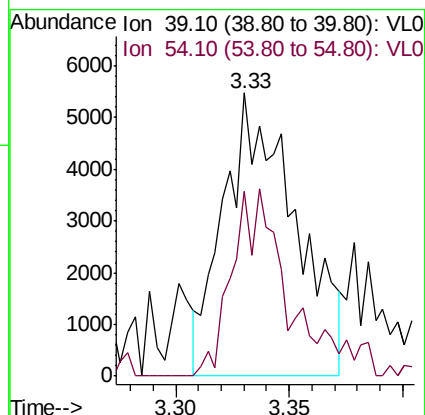
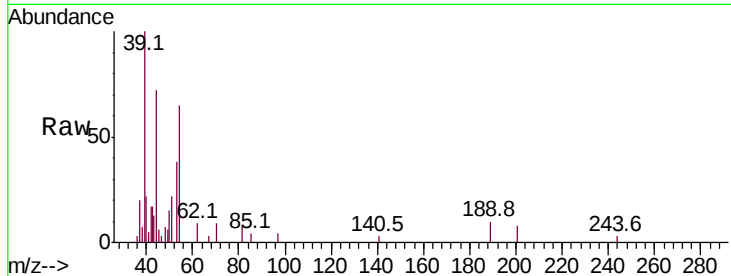
54 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#17

tert-Butyl alcohol

Concen: 0.111 ppbv m

RT: 4.38 min Scan# 496

Delta R.T. 0.09 min

Lab File: VL036902.D

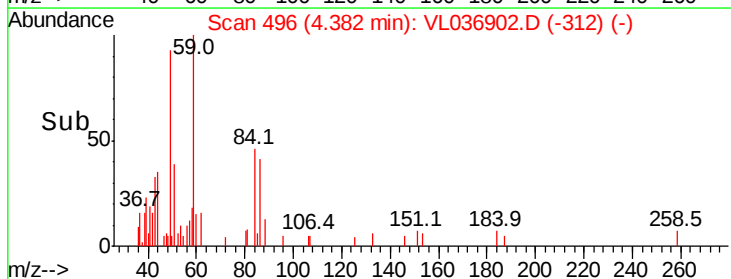
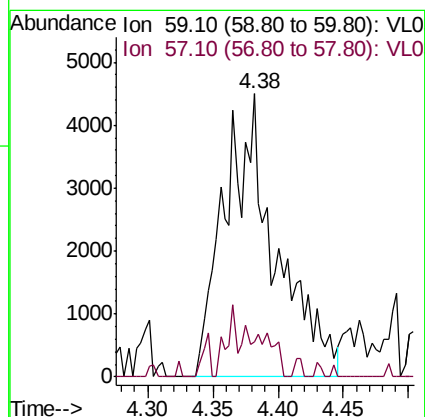
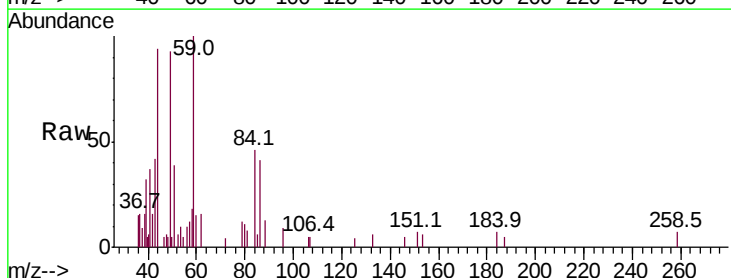
Acq: 6 May 2021 14:13

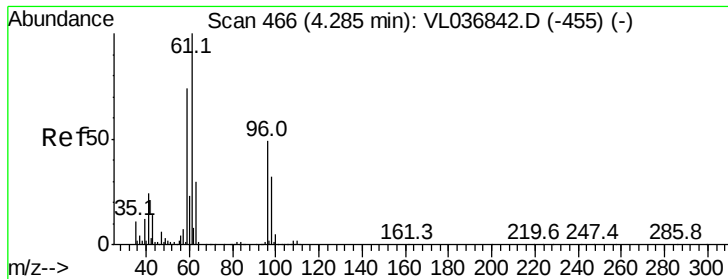
Tgt Ion: 59 Resp: 12161

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



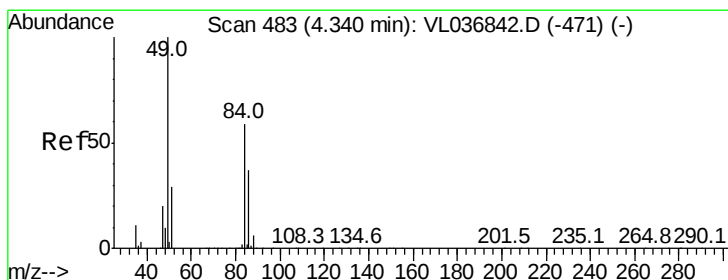
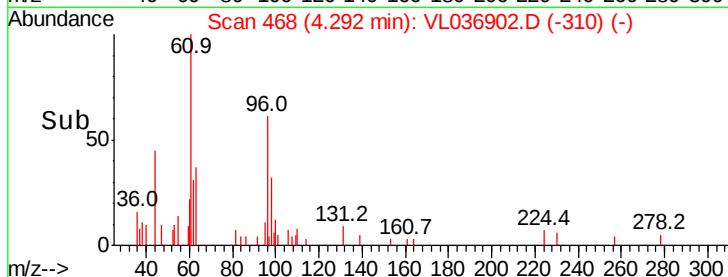
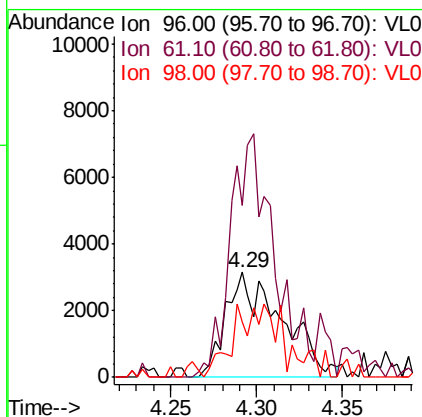
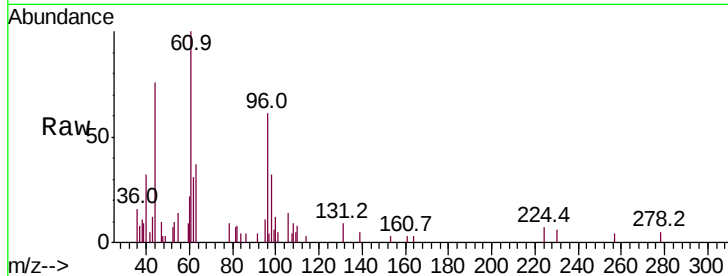


#18
 1,1-Dichloroethene
 Concen: 0.122 ppbv m
 RT: 4.29
 Instrument: MSVOA_L
 Delta R.T.
 Lab File: ClientSampleId:
 Acq: 6 May 2021 14:13
 LOD-MDL-AIR-01-QT2-2021

Tot Ion:
 Ion Ratio
 96 100
 61 163.
 98 53.

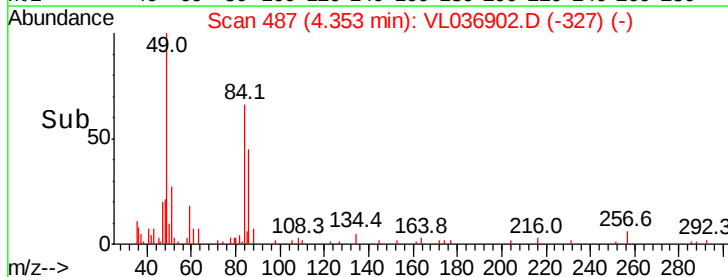
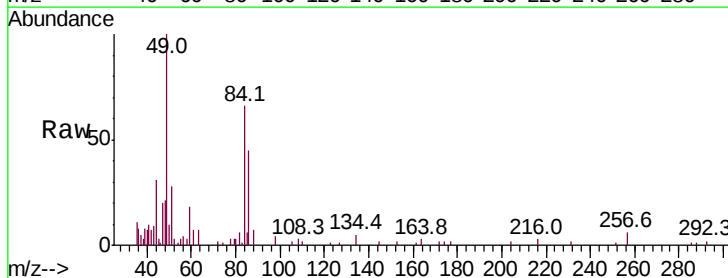
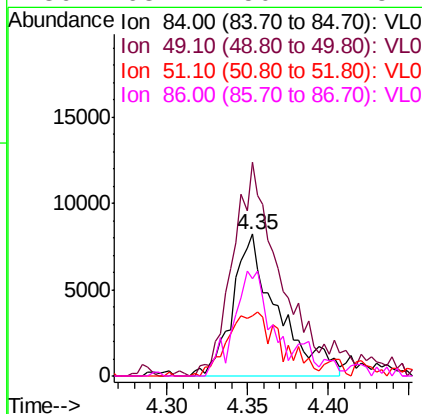
Manual Integrations
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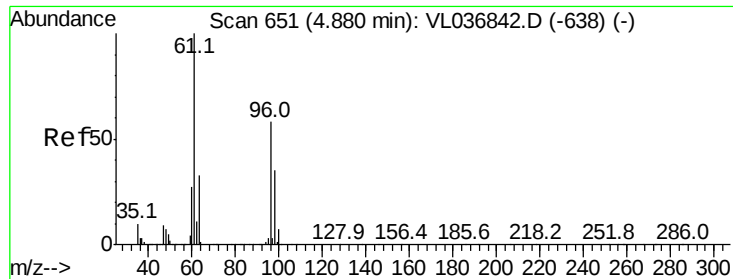
Reviewed By :Semsettin Yesilyurt 05/08/2021
 Supervised By :Mahesh Dadoda 05/10/2021



#20
 Methylene Chloride
 Concen: 0.245 ppbv m
 RT: 4.35 min Scan# 487
 Delta R.T. 0.01 min
 Lab File: VL036902.D
 Acq: 6 May 2021 14:13

Tgt Ion: 84 Resp: 15862
 Ion Ratio Lower Upper
 84 100
 49 150.4 135.4 203.0
 51 42.7 39.3 58.9
 86 68.2 50.2 75.2





#22

trans-1,2-Dichloroethene

Concen: 0.124 ppbv m

RT: 4.90 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:

Ion Ratio

96 100

61 185.

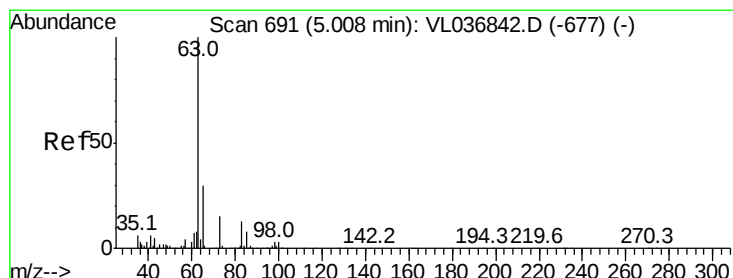
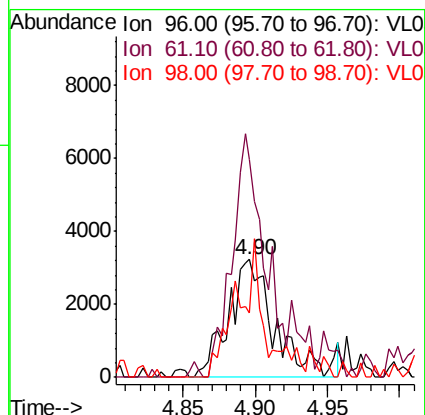
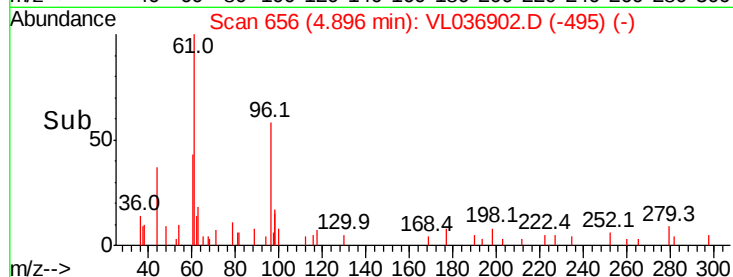
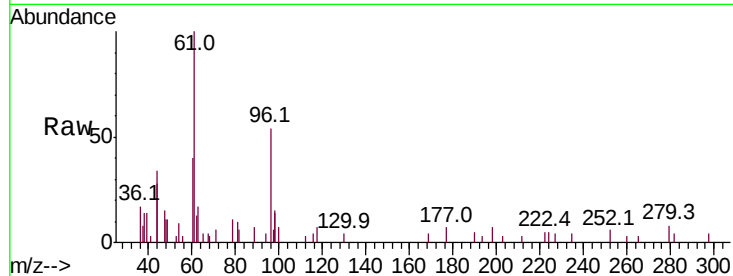
98 28.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#24

1,1-Dichloroethane

Concen: 0.135 ppbv m

RT: 5.02 min Scan# 695

Delta R.T. 0.01 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

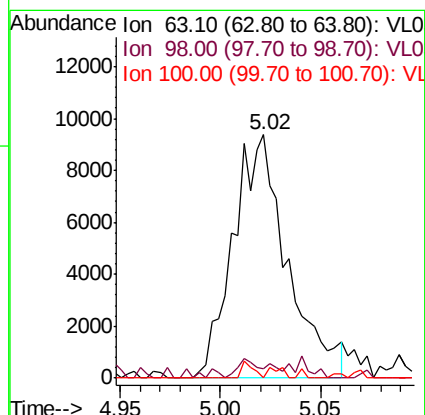
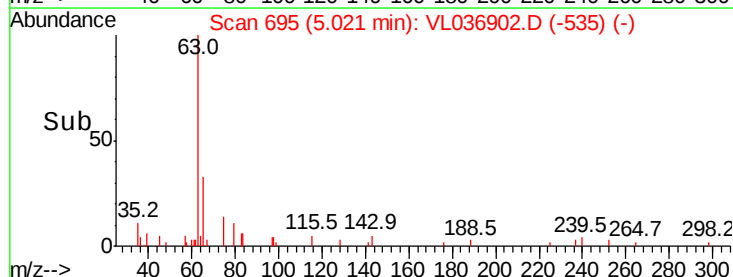
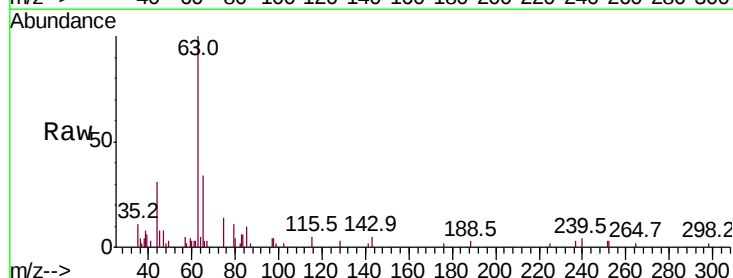
Tgt Ion: 63 Resp: 17678

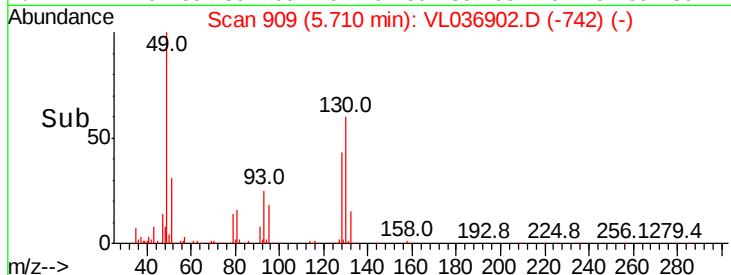
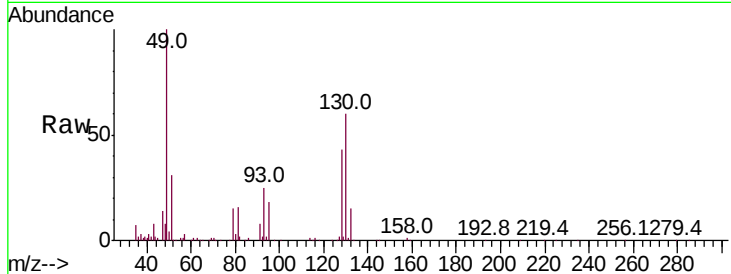
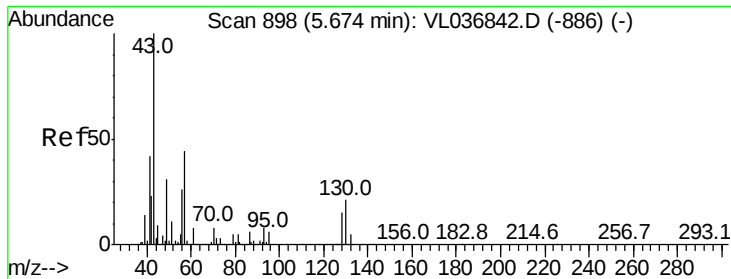
Ion Ratio Lower Upper

63 100

98 4.1 1.7 5.1

100 0.0 1.3 3.8#



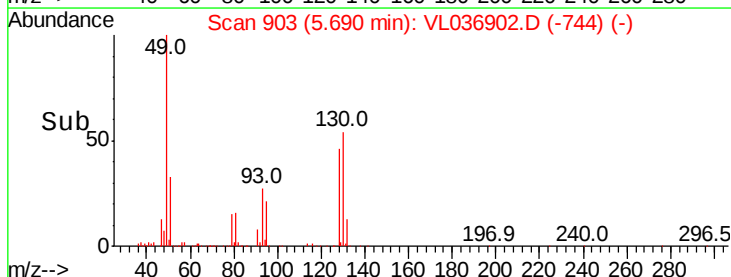
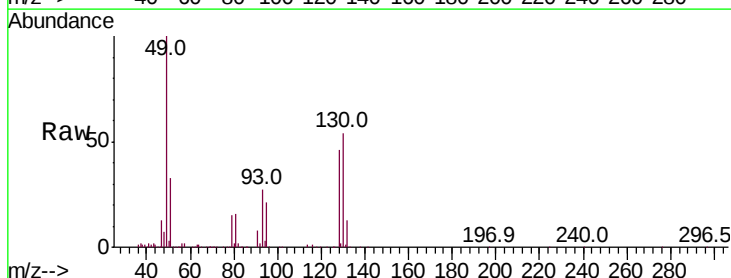
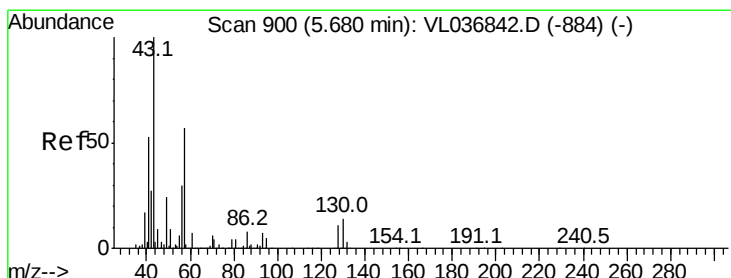
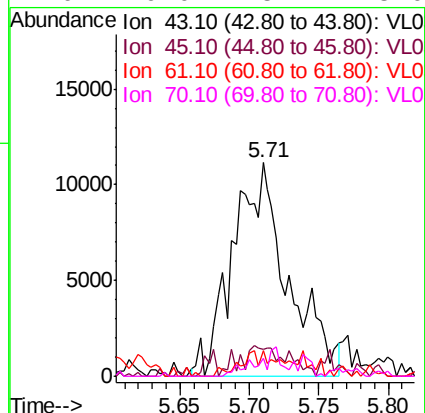


#25
Ethyl Acetate
Concen: 0.093 ppbv m
RT: 5.71
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId:
Acq: 6 May 2021 14:13
LOD-MDL-AIR-01-QT2-2021

Tot Ion:
Ion Ratio
43 100
45 0.
61 0.
70 0.0 5.4 8.0#

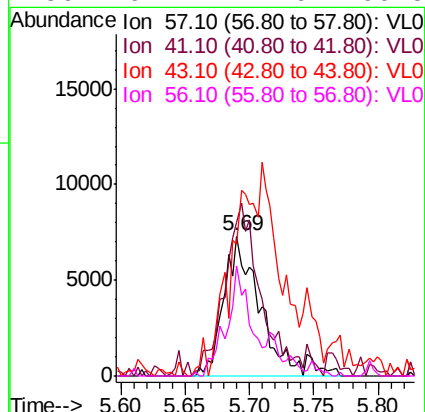
Manual Integrations
APPROVED

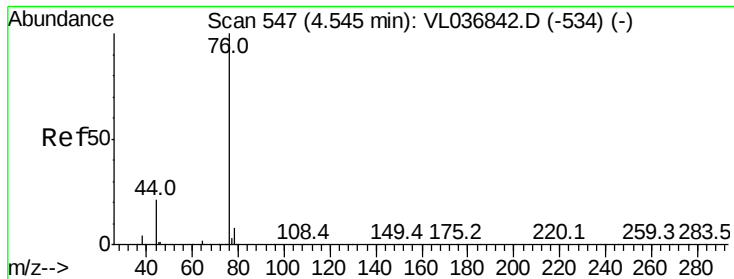
Reviewed By :Semsettin Yesilyurt 05/08/2021
Supervised By :Mahesh Dadoda 05/10/2021



#26
Hexane
Concen: 0.094 ppbv m
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL036902.D
Acq: 6 May 2021 14:13

Tgt Ion: 57 Resp: 14558
Ion Ratio Lower Upper
57 100
41 125.1 77.7 116.5#
43 0.0 180.5 270.7#
56 67.1 44.6 66.8#





#27

Carbon Disulfide

Concen: 0.099 ppbv m

RT: 4.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:

Ion Ratio

76 100

44 48.

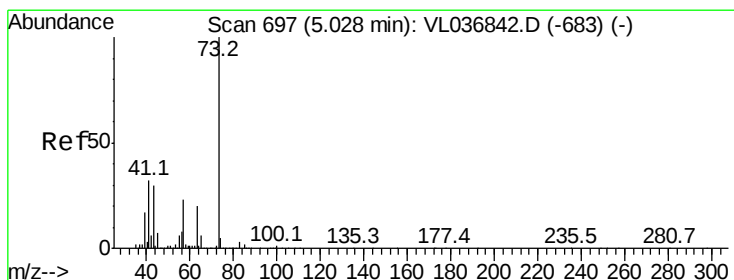
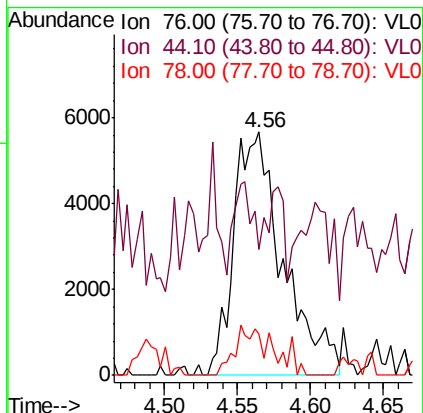
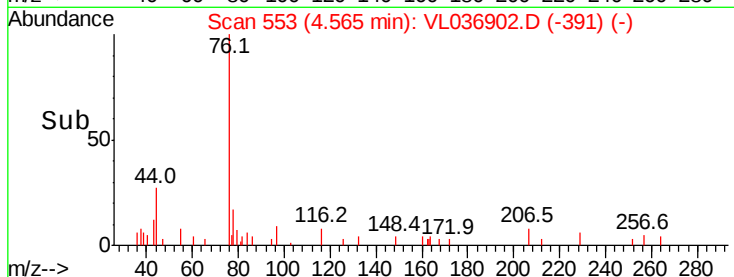
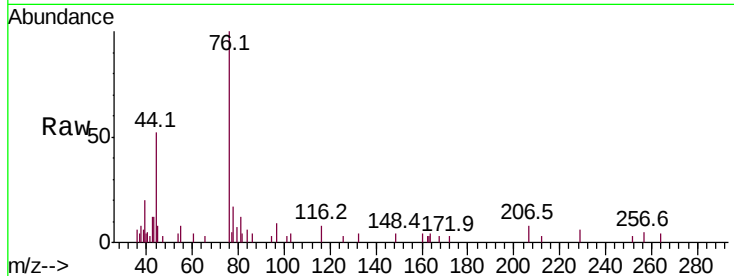
78 15.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#28

Methyl tert-Butyl Ether

Concen: 0.095 ppbv m

RT: 5.07 min Scan# 709

Delta R.T. 0.04 min

Lab File: VL036902.D

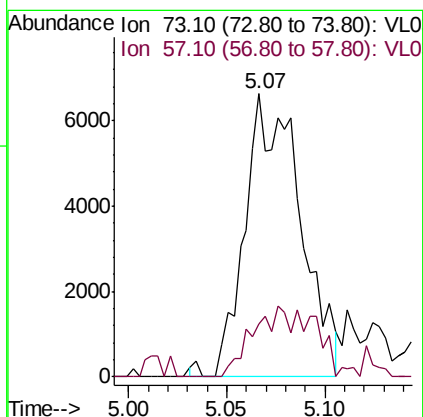
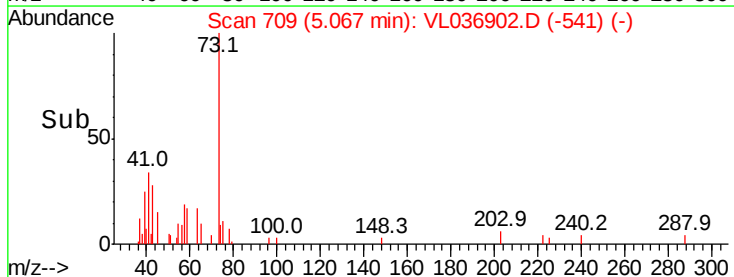
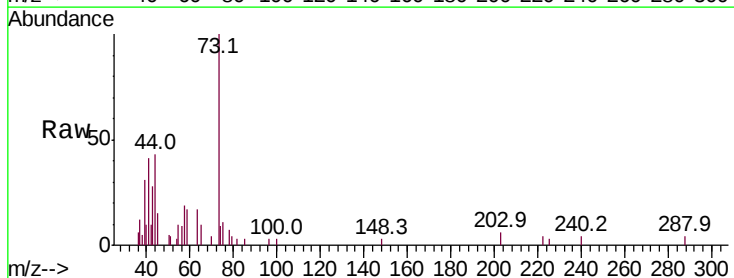
Acq: 6 May 2021 14:13

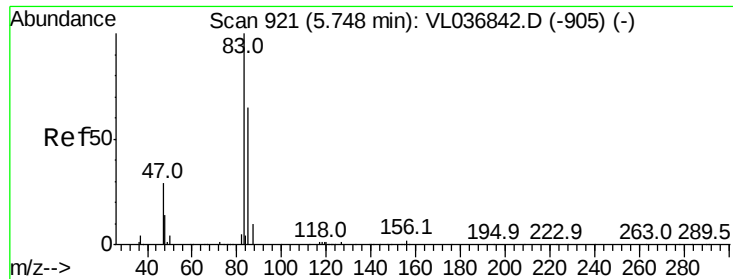
Tgt Ion: 73 Resp: 12968

Ion Ratio Lower Upper

73 100

57 2.8 19.0 28.6#





#29

Chloroform

Concen: 0.125 ppbv m

RT: 5.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:

Ion Ratio

83 100

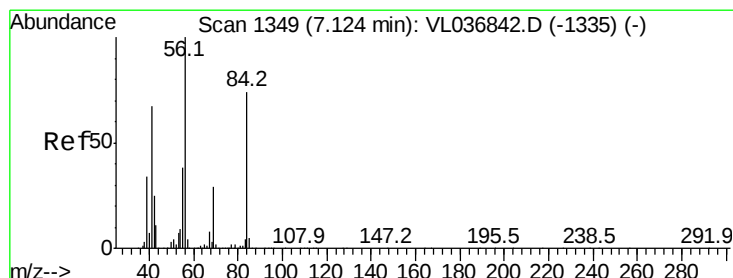
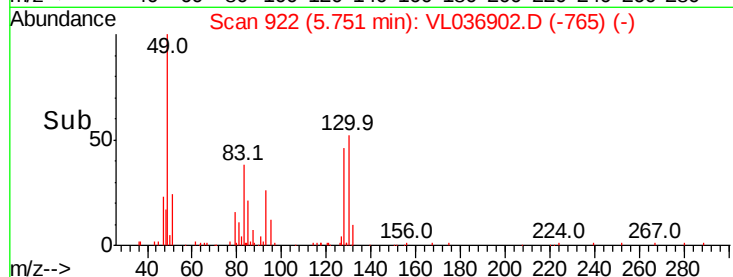
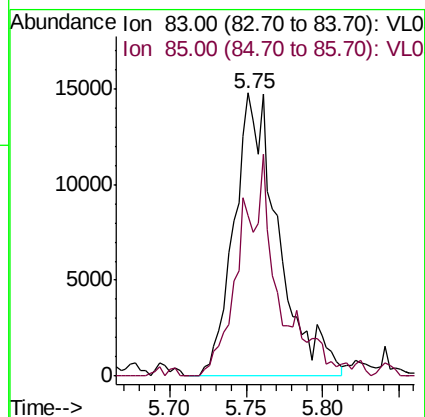
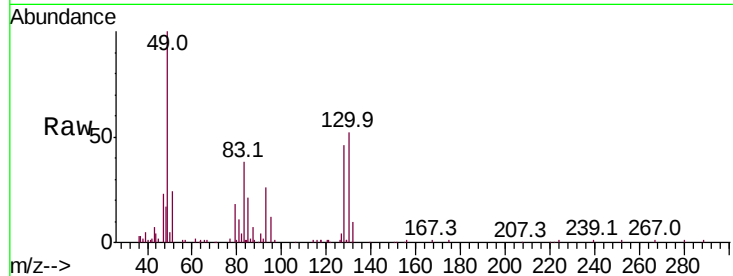
85 56.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#30

Cyclohexane

Concen: 0.146 ppbv m

RT: 7.17 min Scan# 1363

Delta R.T. 0.05 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

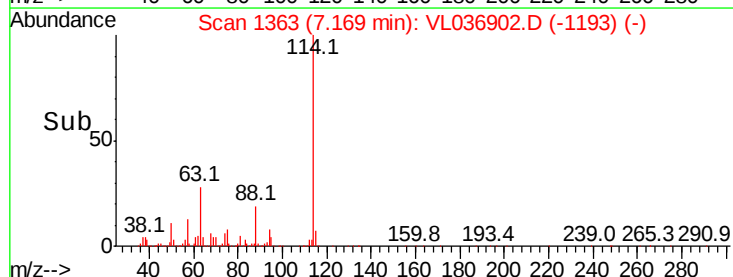
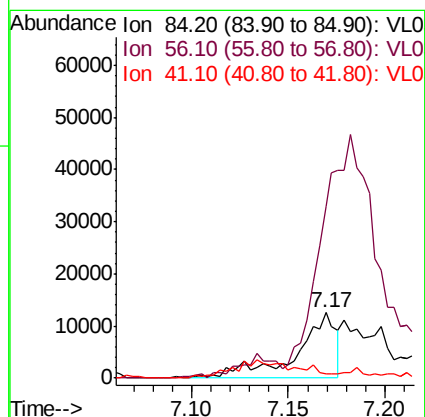
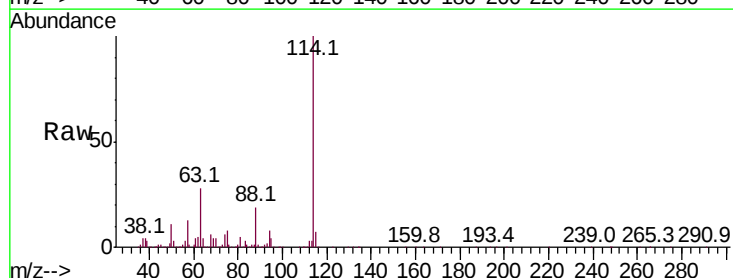
Tgt Ion: 84 Resp: 17975

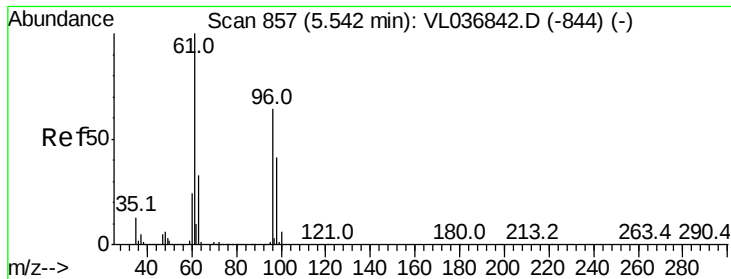
Ion Ratio Lower Upper

84 100

56 0.0 115.8 173.6#

41 58.8 74.6 111.8#





#31

cis-1,2-Dichloroethene

Concen: 0.088 ppbv m

RT: 5.56 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:

Ion Ratio

61 100

96 70.

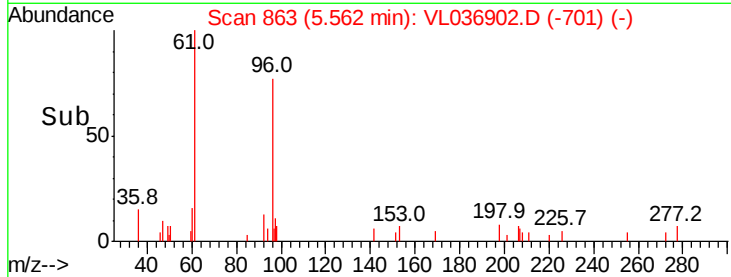
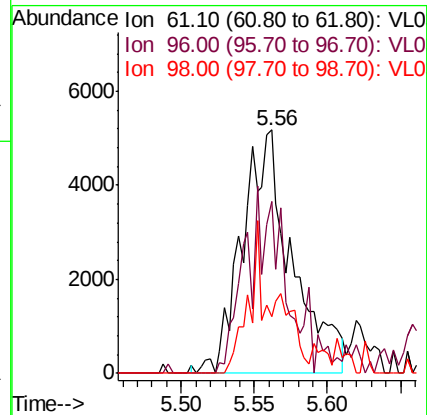
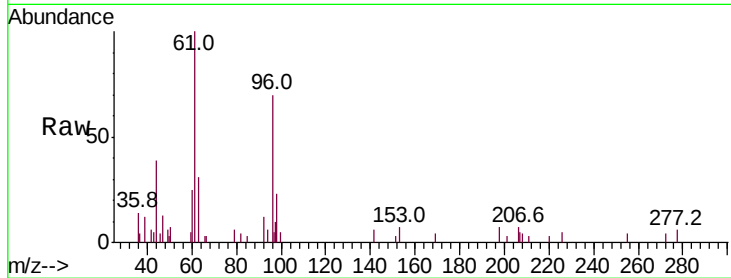
98 23.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#32

1,1,1-Trichloroethane

Concen: 0.109 ppbv m

RT: 6.51 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

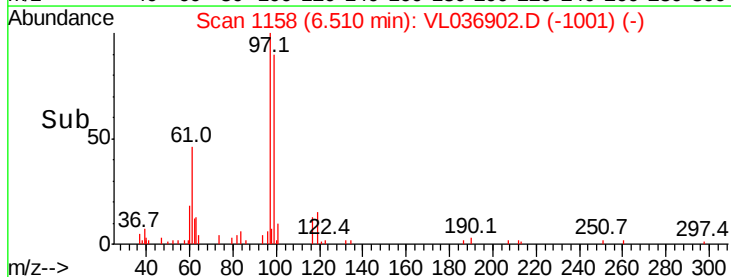
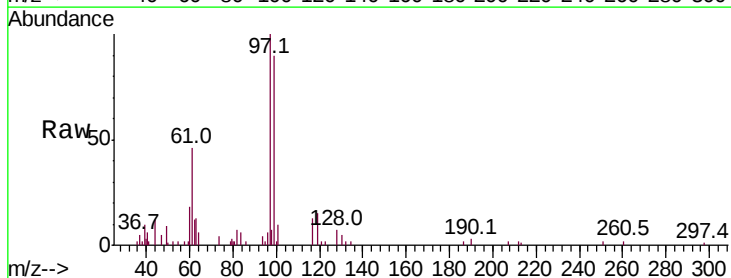
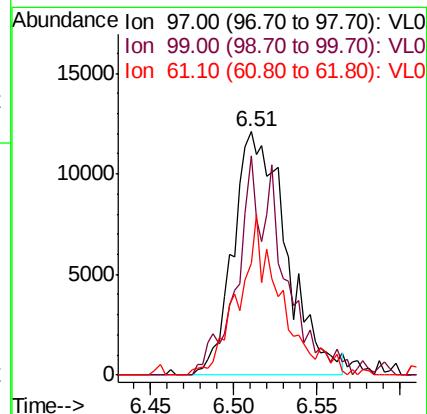
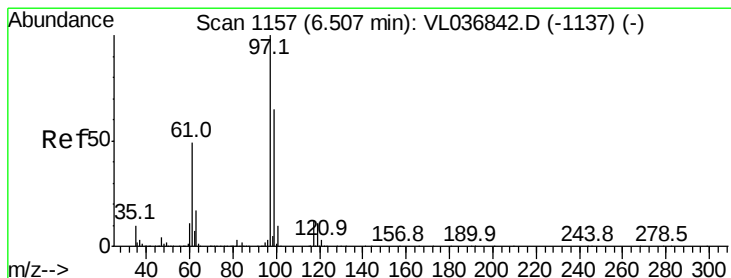
Tgt Ion: 97 Resp: 26713

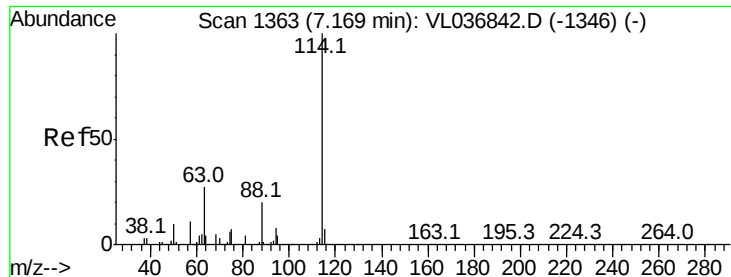
Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.6#

61 0.0 40.8 61.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 May 2021 14:13

Tot Ion:1

Ion Rati

114 100

63 27.

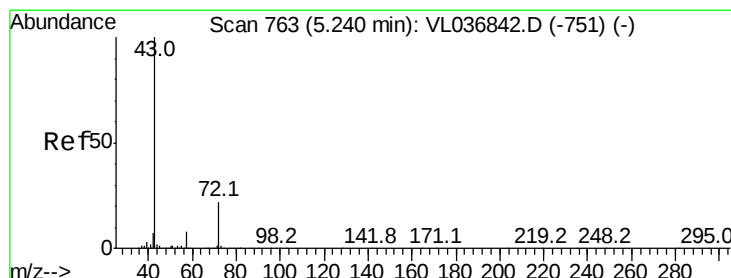
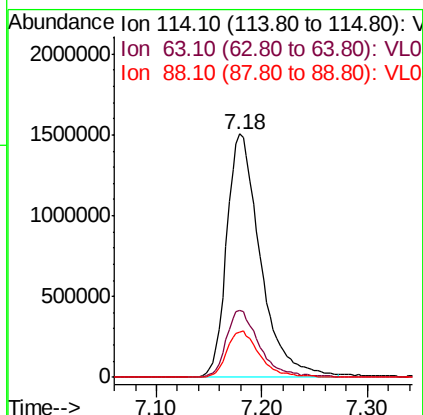
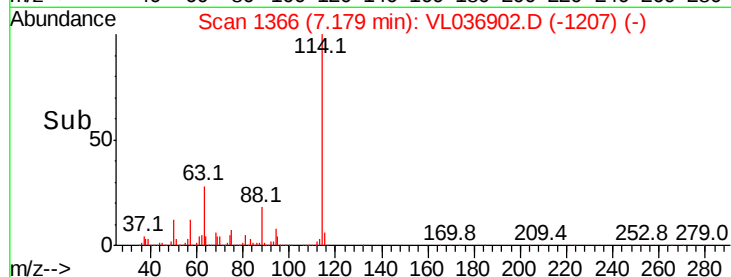
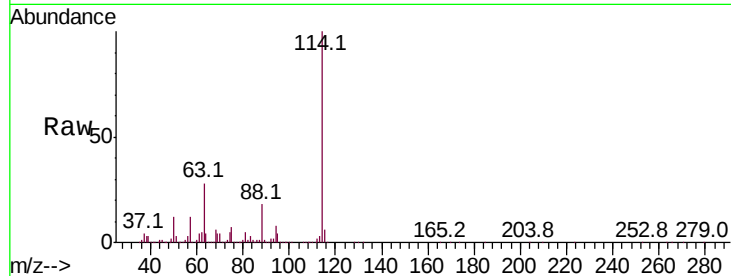
88 18.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#34

2-Butanone

Concen: 0.112 ppbv m

RT: 5.21 min Scan# 753

Delta R.T. -0.03 min

Lab File: VL036902.D

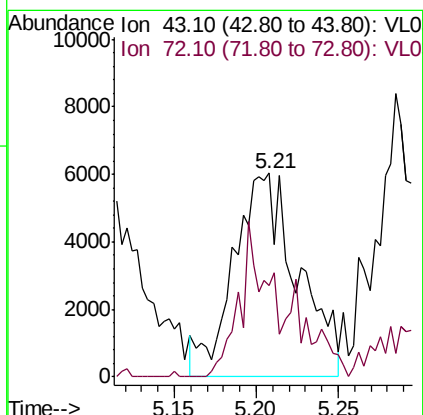
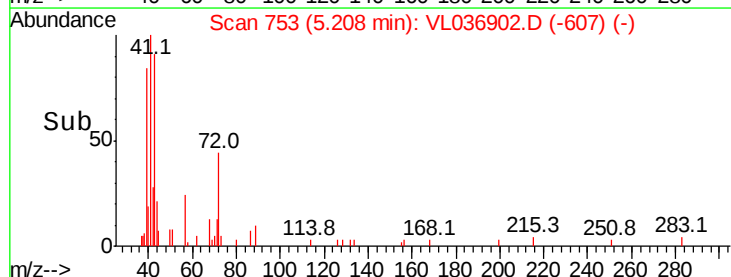
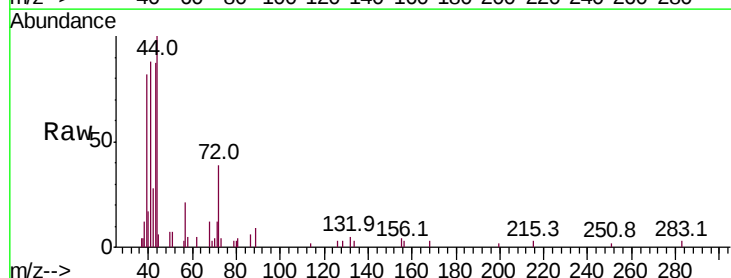
Acq: 6 May 2021 14:13

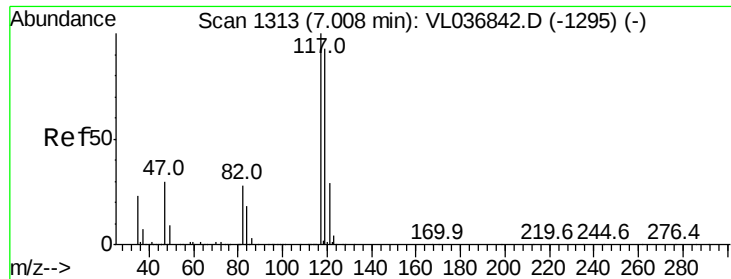
Tgt Ion: 43 Resp: 16313

Ion Ratio Lower Upper

43 100

72 0.0 17.6 26.4#





#35

Carbon Tetrachloride

Concen: 0.128 ppbv m

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

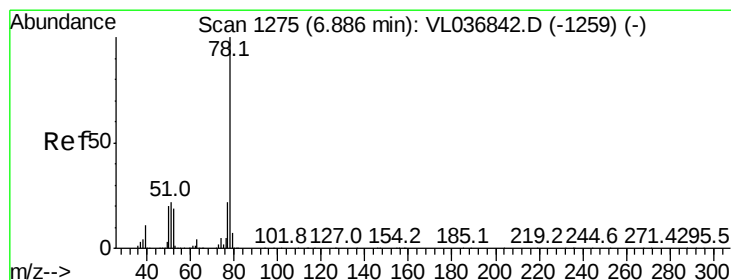
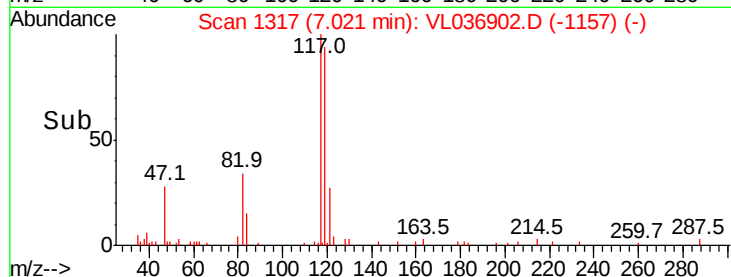
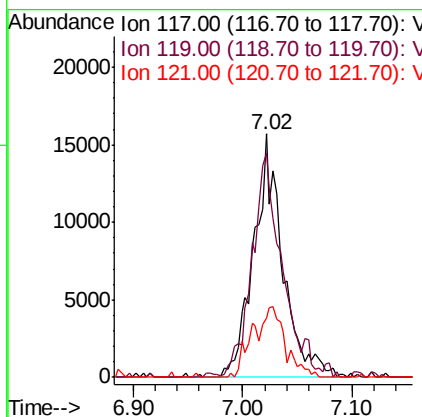
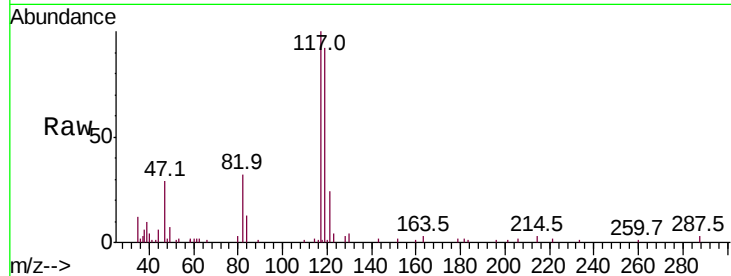
Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:1
Ion Rati
117 100
119 92.
121 24.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/08/2021
Supervised By :Mahesh Dadoda 05/10/2021



#36

Benzene

Concen: 0.072 ppbv m

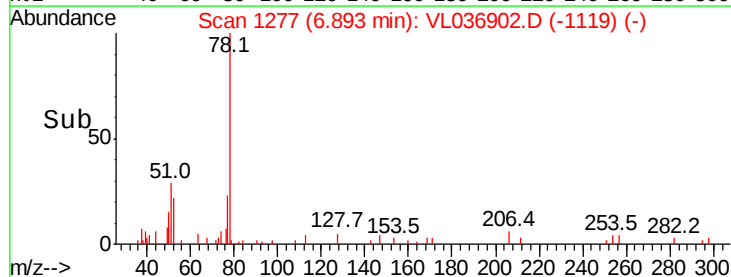
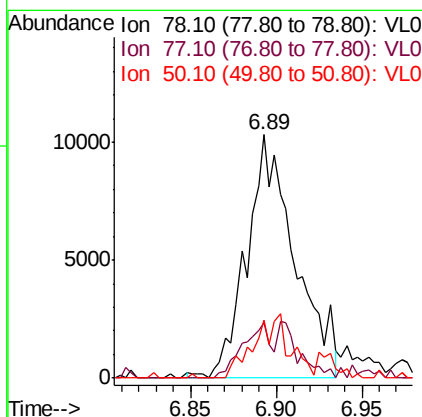
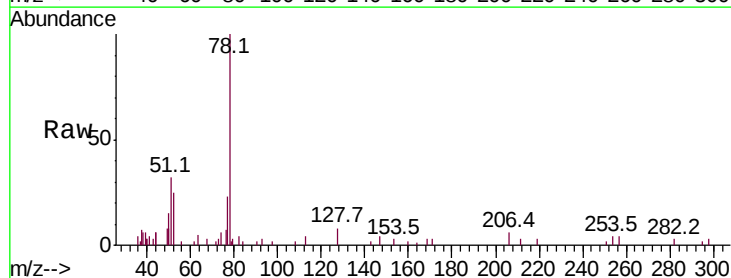
RT: 6.89 min Scan# 1277

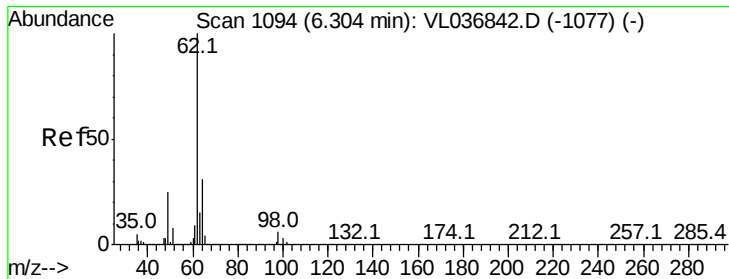
Delta R.T. 0.01 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	20140		
77	23.0		17.6	26.4
50	15.4		16.3	24.5#



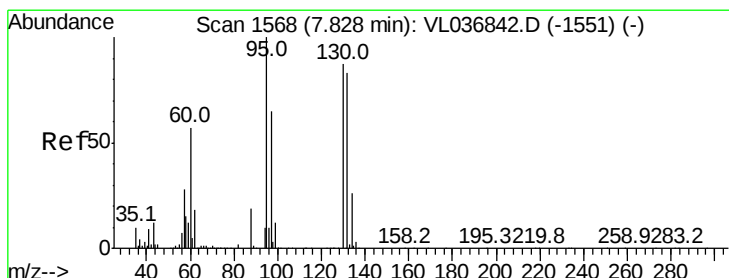
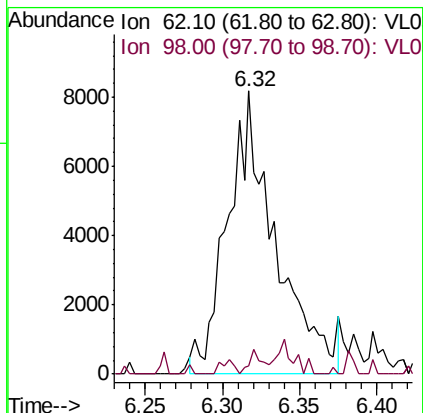
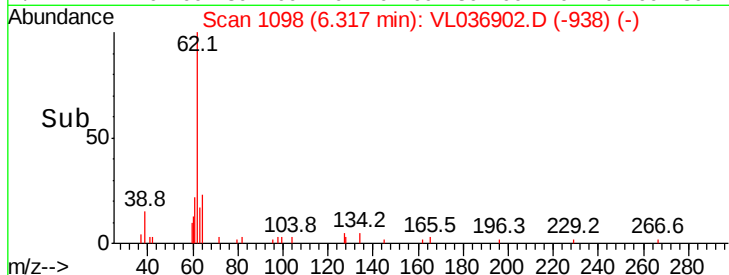
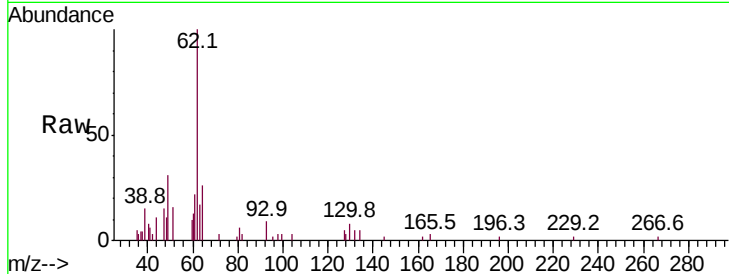


#37
 1,2-Dichloroethane
 Concen: 0.111 ppbv m
 RT: 6.32
 Instrument: MSVOA_1
 Delta R.T.:
 ClientSampleId:
 Lab File: LOD-MDL-AIR-01-QT2-2021
 Acq: 6 May 2021 14:13

Tot Ion:
 Ion Ratio
 62 100
 98 0.

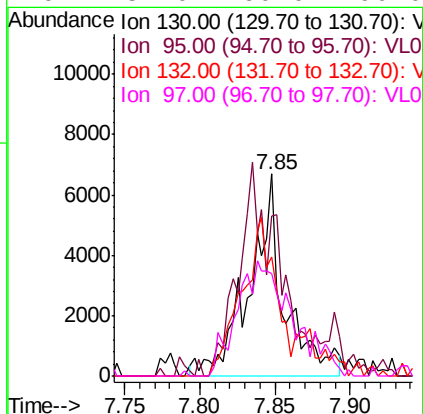
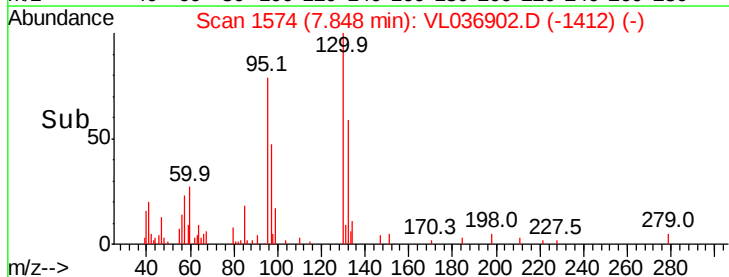
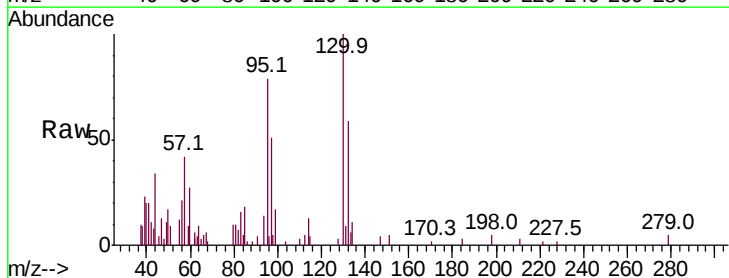
Manual Integrations
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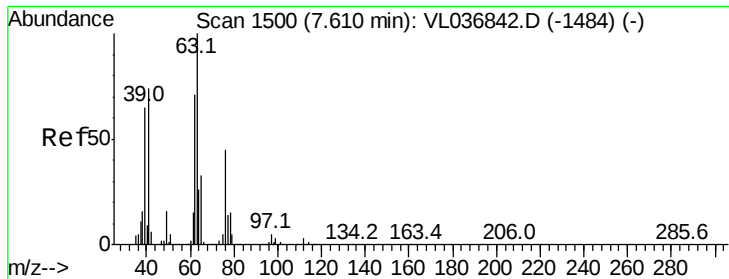
Reviewed By :Semsettin Yesilyurt 05/08/2021
 Supervised By :Mahesh Dadoda 05/10/2021



#38
 Trichloroethene
 Concen: 0.106 ppbv m
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.02 min
 Lab File: VL036902.D
 Acq: 6 May 2021 14:13

Tgt Ion:130 Resp: 10623
 Ion Ratio Lower Upper
 130 100
 95 79.1 92.3 138.5#
 132 58.7 76.8 115.2#
 97 51.0 60.0 90.0#





#39

1,2-Dichloropropane

Concen: 0.119 ppbv m

RT: 7.62 Instrument:

Delta R.T. MSVOA_L

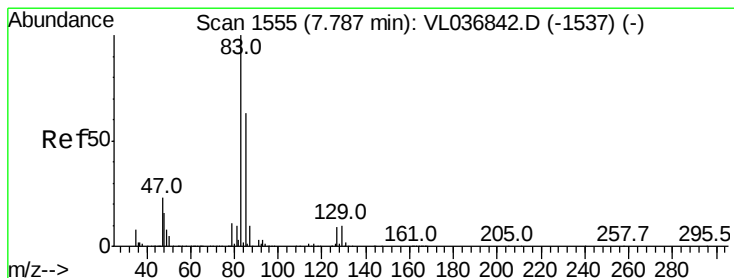
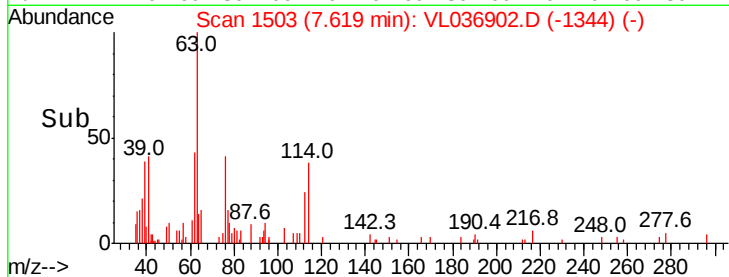
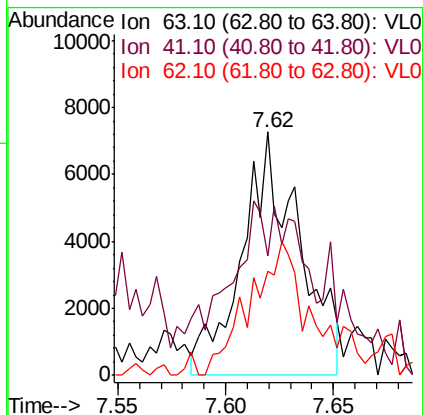
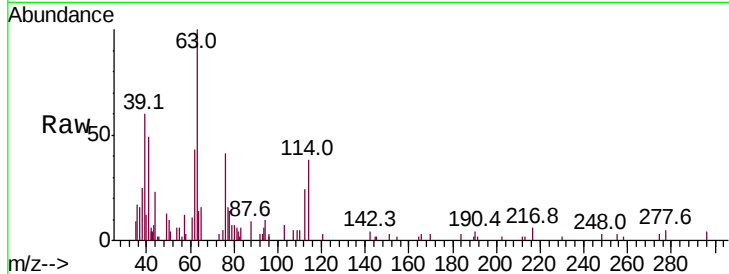
Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:
Ion Rati
63 100
41 48.
62 42.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/08/2021
Supervised By :Mahesh Dadoda 05/10/2021



#42

Bromodichloromethane

Concen: 0.124 ppbv m

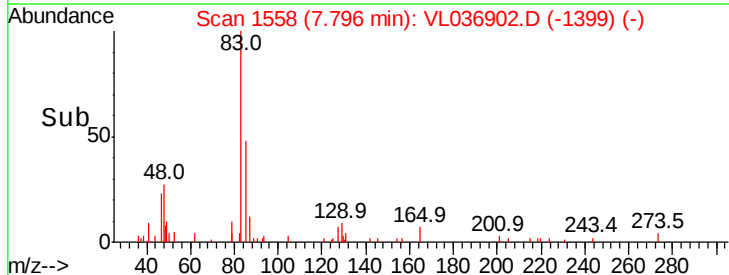
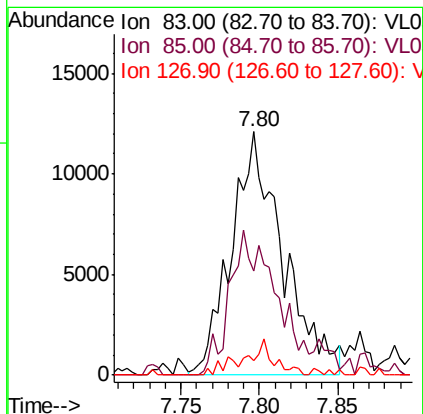
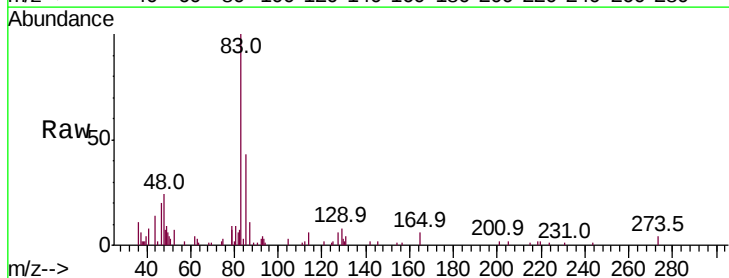
RT: 7.80 min Scan# 1558

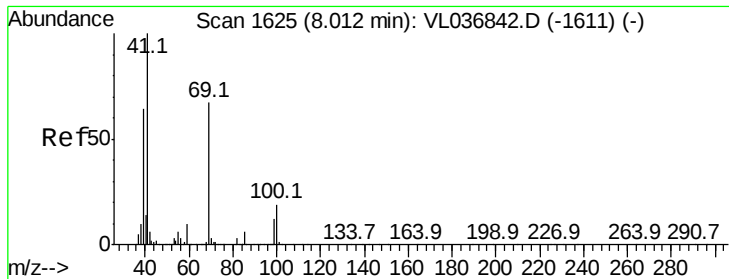
Delta R.T. 0.01 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

Tgt Ion: 83 Resp: 27533
Ion Ratio Lower Upper
83 100
85 42.7 50.4 75.6#
127 6.0 6.9 10.3#



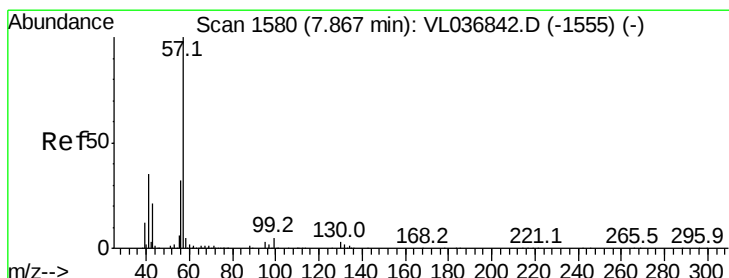
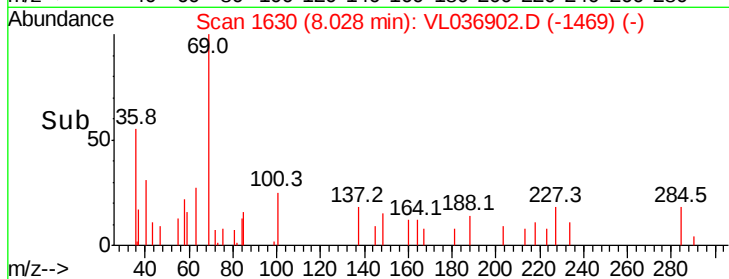
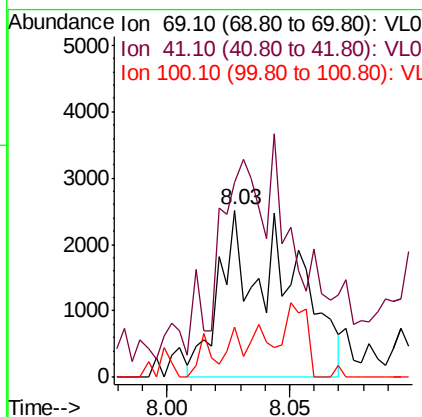
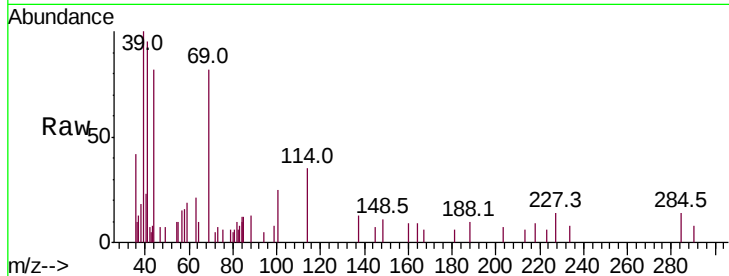


#43
Methyl Methacrylate
Concen: 0.051 ppbv m
RT: 8.03
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 6 May 2021 14:13
LOD-MDL-AIR-01-QT2-2021

Tot Ion:
Ion Ratio
69 100
41 0.
100 0.

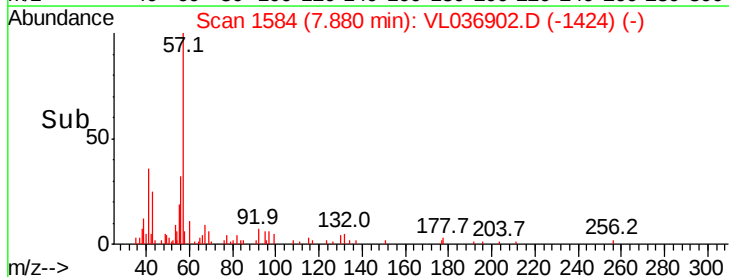
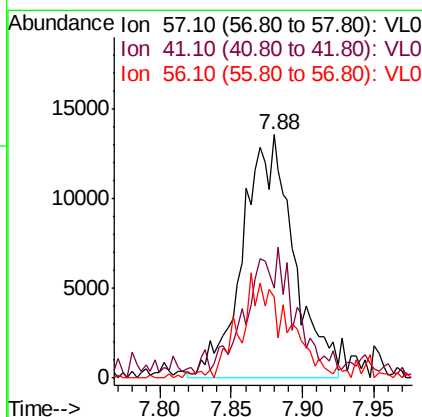
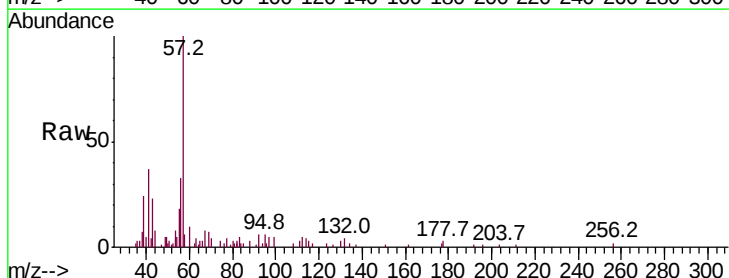
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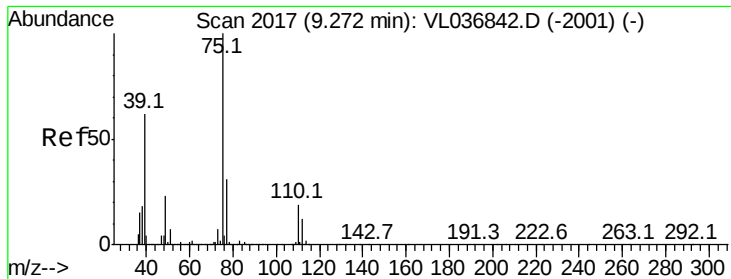
Reviewed By :Semsettin Yesilyurt 05/08/2021
Supervised By :Mahesh Dadoda 05/10/2021



#44
2,2,4-Trimethylpentane
Concen: 0.070 ppbv m
RT: 7.88 min Scan# 1584
Delta R.T. 0.01 min
Lab File: VL036902.D
Acq: 6 May 2021 14:13

Tgt Ion: 57 Resp: 33865
Ion Ratio Lower Upper
57 100
41 53.8 28.2 42.4#
56 0.0 25.9 38.9#





#45

t-1,3-Dichloropropene

Concen: 0.060 ppbv m

RT: 9.29 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:

Ion Ratio

75 100

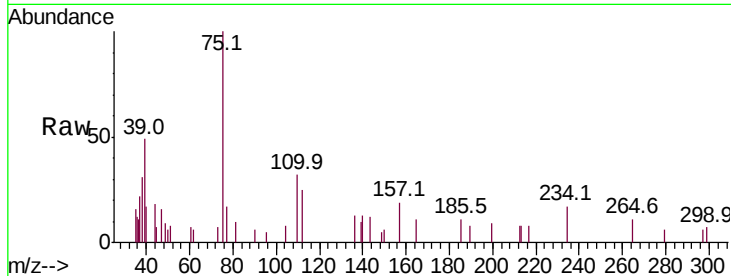
77 16.

Manual Integrations

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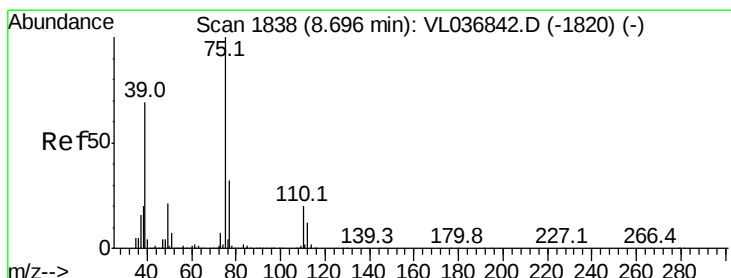
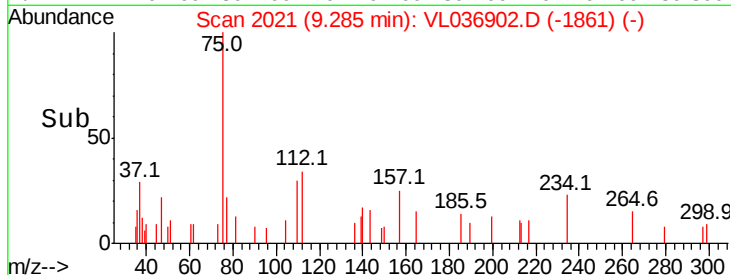
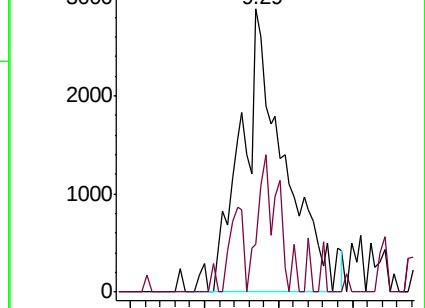
Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.066 ppbv m

RT: 8.71 min Scan# 1842

Delta R.T. 0.01 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

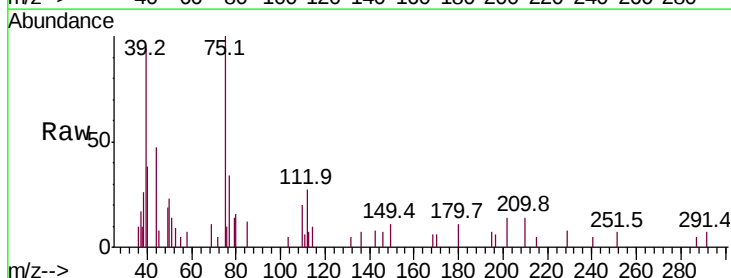
Tgt Ion: 75 Resp: 8402

Ion Ratio Lower Upper

75 100

39 94.0 55.4 83.0#

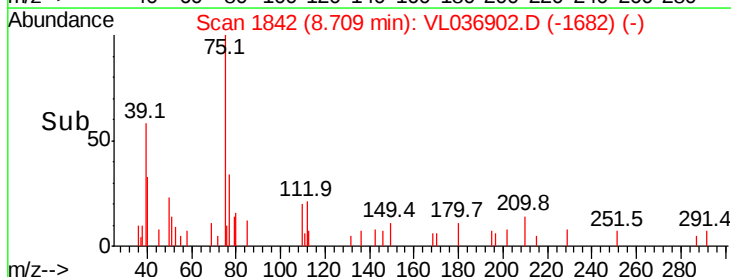
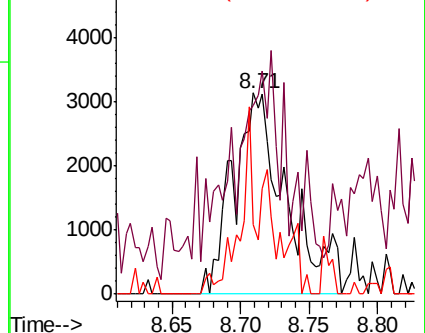
77 34.4 25.2 37.8

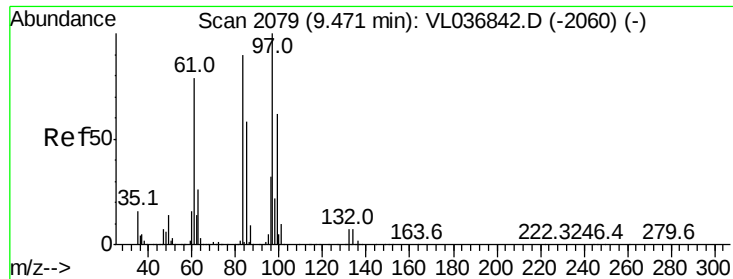


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



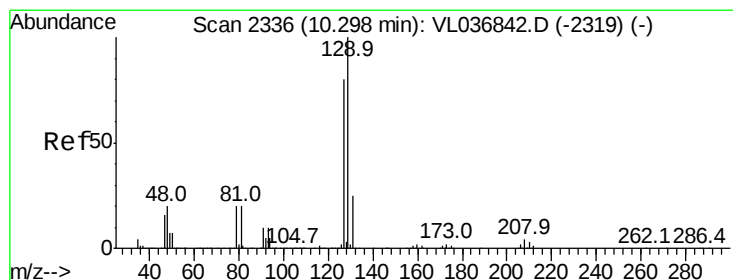
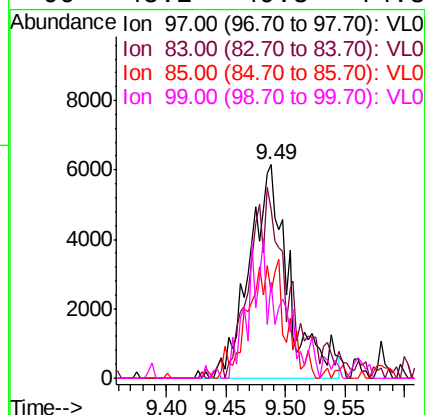
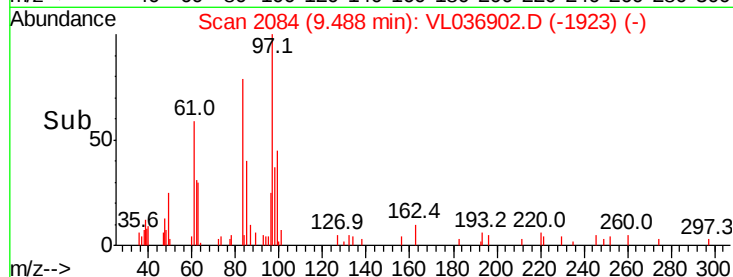
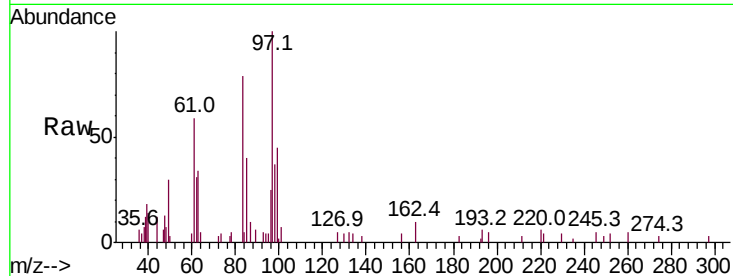


#47
 1,1,2-Trichloroethane
 Concen: 0.122 ppbv m
 RT: 9.49
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 LOD-MDL-AIR-01-QT2-2021
 Acq: 6 May 2021 14:13

Tot Ion:
 Ion Ratio
 97 100
 83 78.
 85 39.
 99 45.2 49.8 74.8#

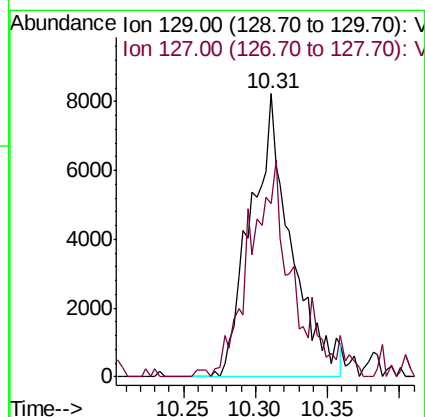
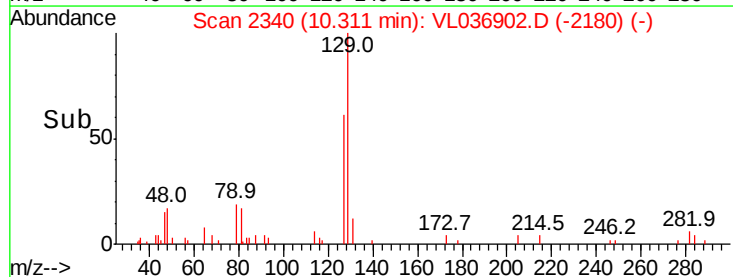
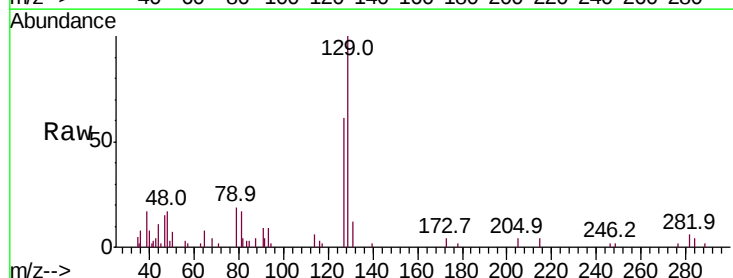
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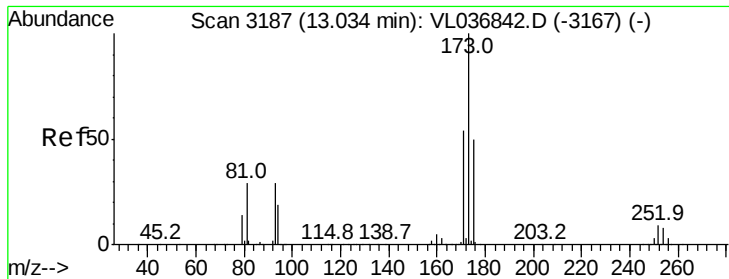
Reviewed By :Semsettin Yesilyurt 05/08/2021
 Supervised By :Mahesh Dadoda 05/10/2021



#48
 Dibromochloromethane
 Concen: 0.092 ppbv m
 RT: 10.31 min Scan# 2340
 Delta R.T.: 0.01 min
 Lab File: VL036902.D
 Acq: 6 May 2021 14:13

Tgt Ion:129 Resp: 15973
 Ion Ratio Lower Upper
 129 100
 127 85.1 40.2 120.5





#49

Bromoform

Concen: 0.092 ppbv m

RT: 13.03

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:1

Ion Ratio

173 100

175 0.

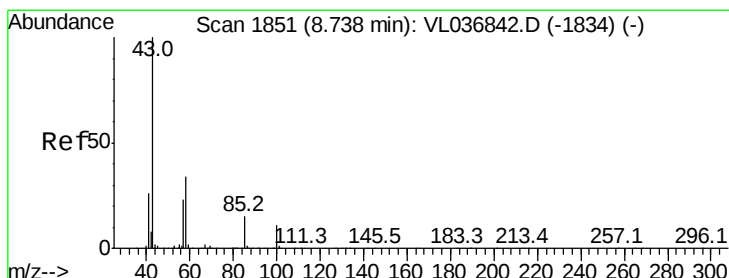
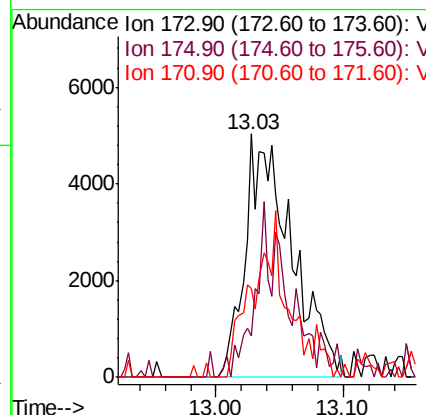
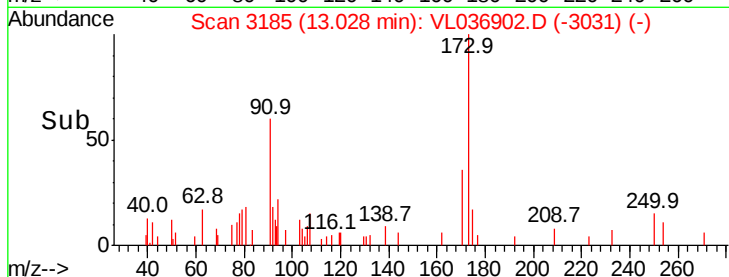
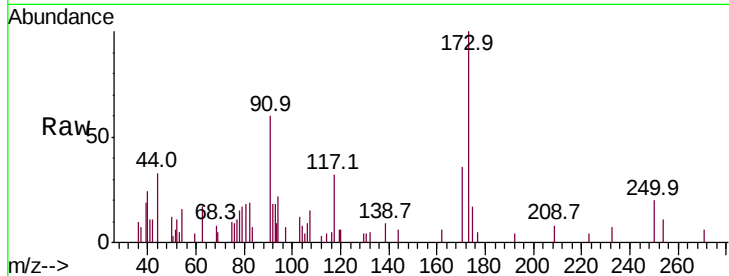
171 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#50

4-Methyl-2-Pentanone

Concen: 0.062 ppbv m

RT: 8.81 min Scan# 1873

Delta R.T. 0.07 min

Lab File: VL036902.D

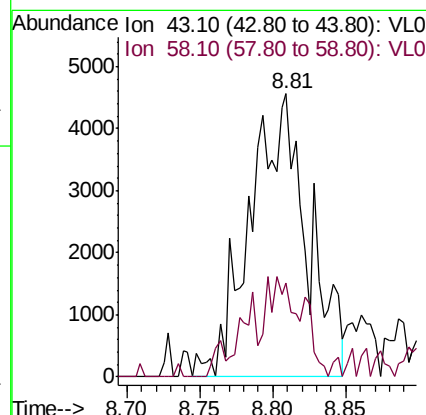
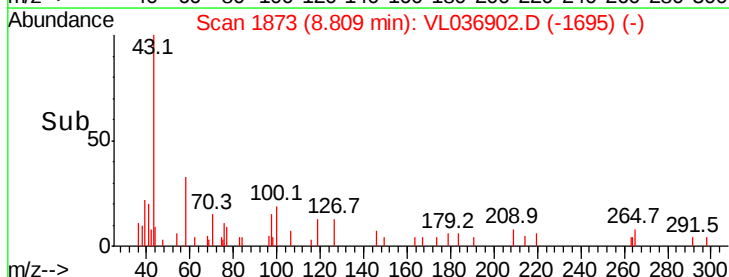
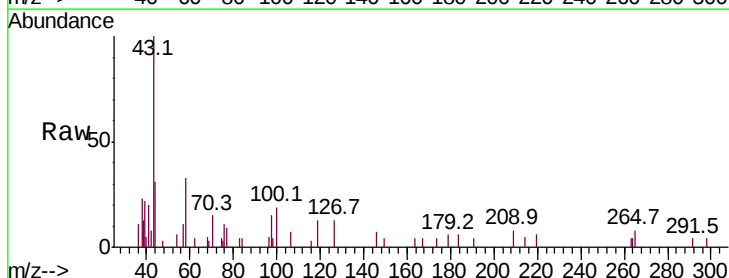
Acq: 6 May 2021 14:13

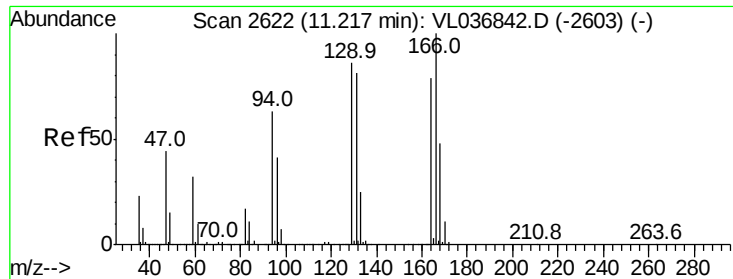
Tgt Ion: 43 Resp: 12382

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.8#





#52

Tetrachloroethene

Concen: 0.097 ppbv m

RT: 11.24

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 May 2021 14:13

Tot Ion:1

Ion Rati

164 100

166 66.

129 38.

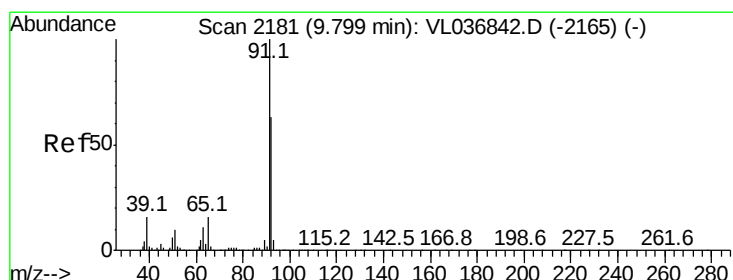
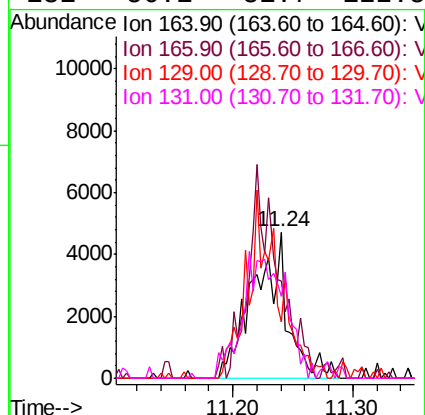
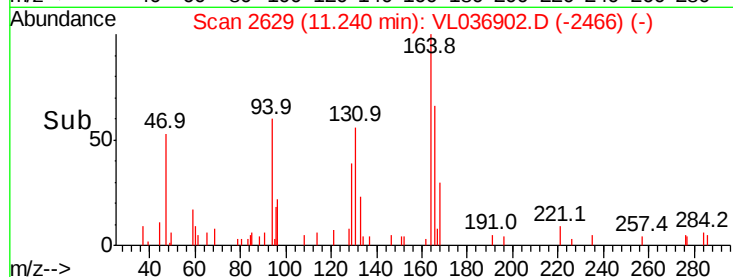
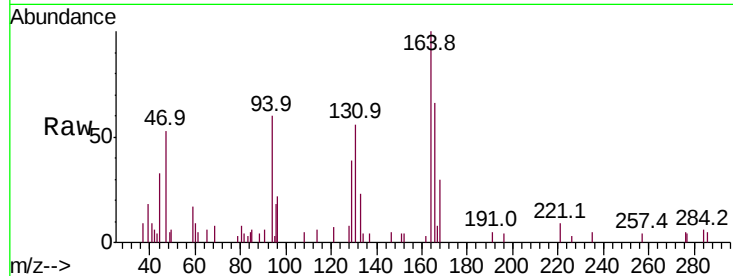
131 56.1 81.7 122.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#53

Toluene

Concen: 0.063 ppbv m

RT: 9.81 min Scan# 2183

Delta R.T. 0.01 min

Lab File: VL036902.D

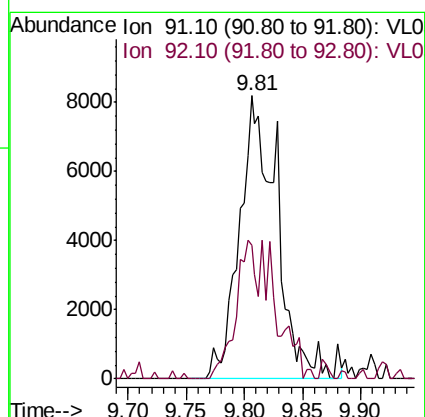
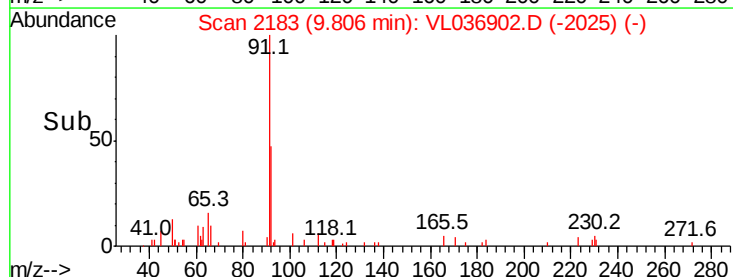
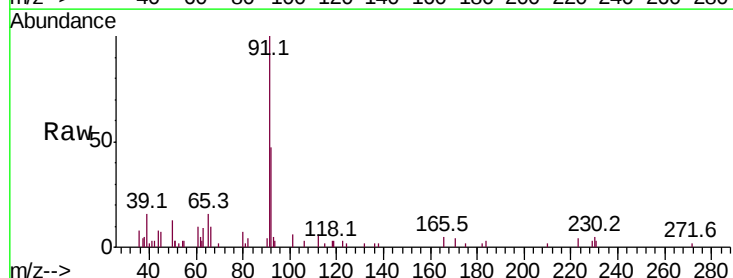
Acq: 6 May 2021 14:13

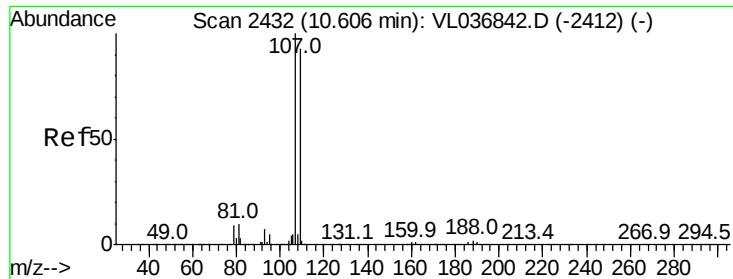
Tgt Ion: 91 Resp: 18557

Ion Ratio Lower Upper

91 100

92 49.9 49.0 73.4





#54

1,2-Dibromoethane

Concen: 0.091 ppbv m

RT: 10.62

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:1

Ion Rati

107 100

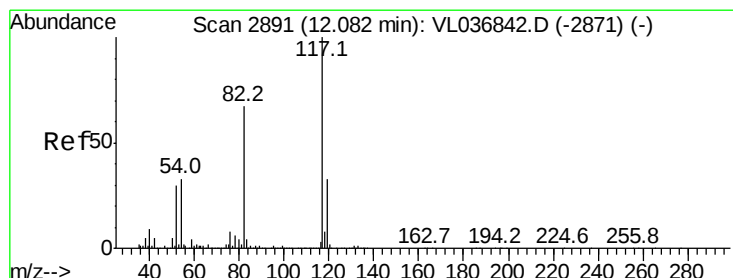
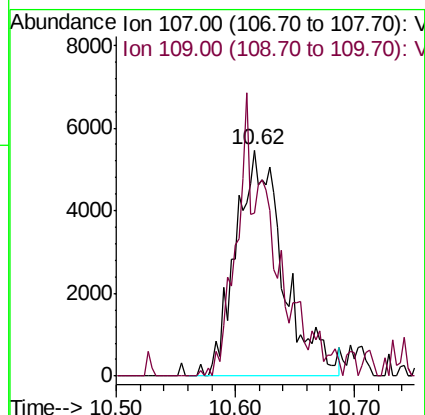
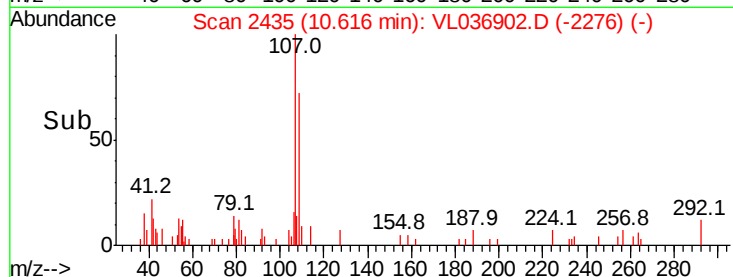
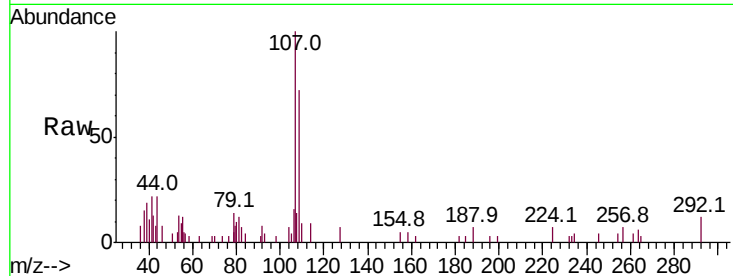
109 72.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.01 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

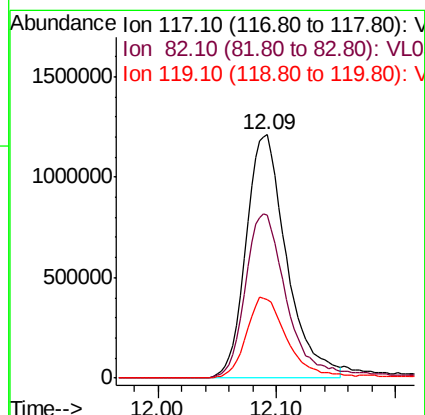
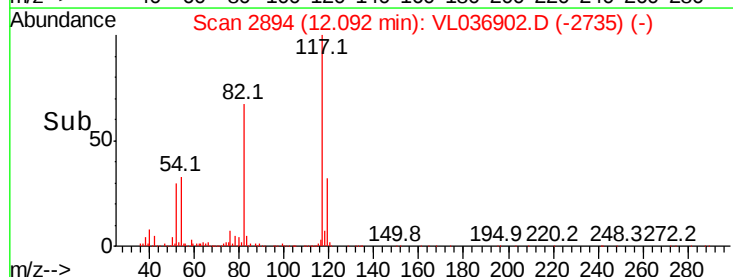
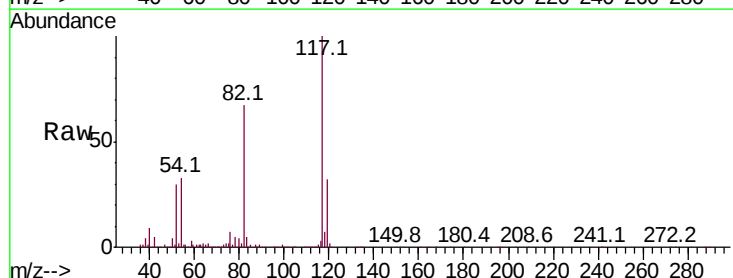
Tgt Ion:117 Resp: 2858838

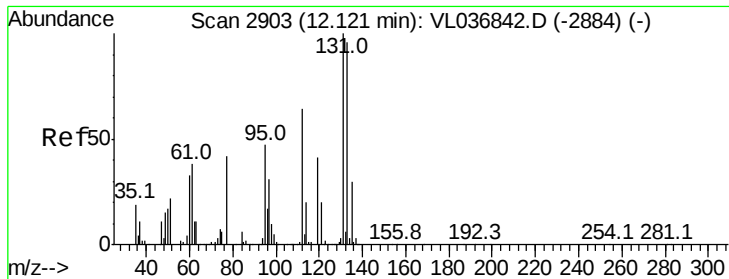
Ion Ratio Lower Upper

117 100

82 71.6 53.5 80.3

119 35.0 25.6 38.4



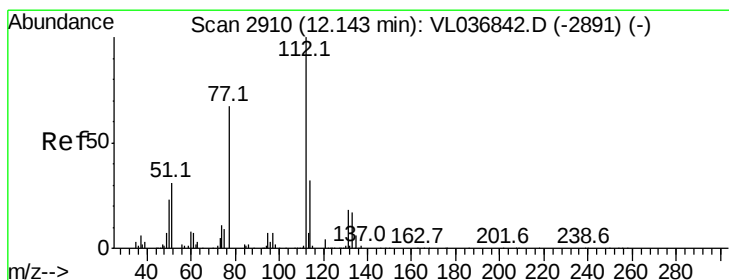
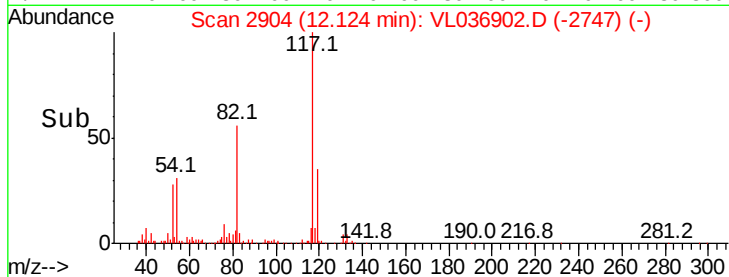
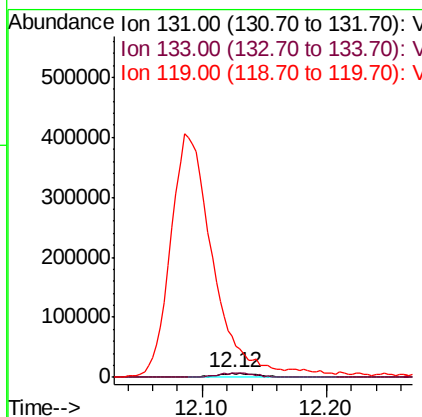
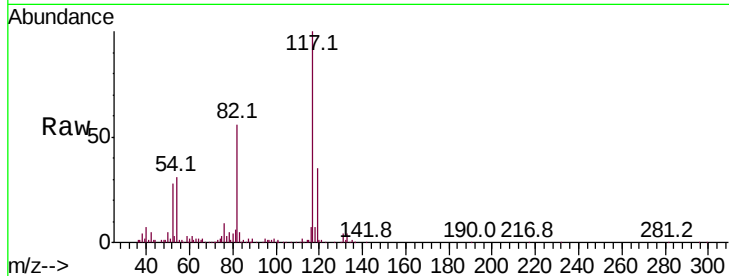


#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.141 ppbv m
 RT: 12.12 min
 Instrument: MSVOA_1
 Delta R.T.: 0.00 min
 Lab File: ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021
 Acq: 6 May 2021 14:13

Tot Ion:1
 Ion Rati
 131 100
 133 0.
 119 0.

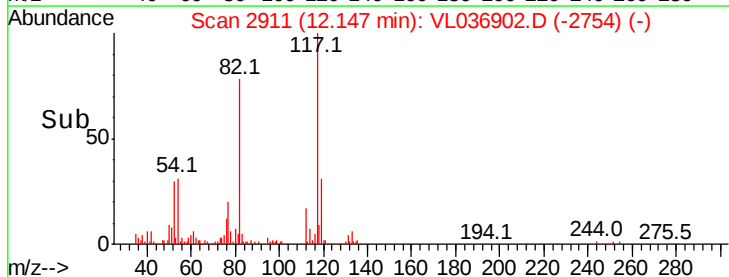
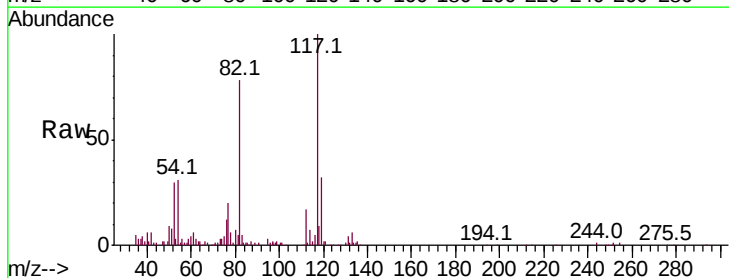
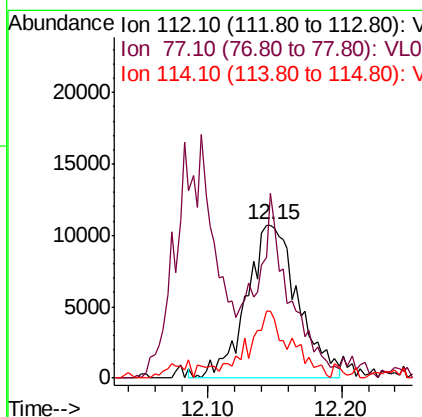
Manual Integrations
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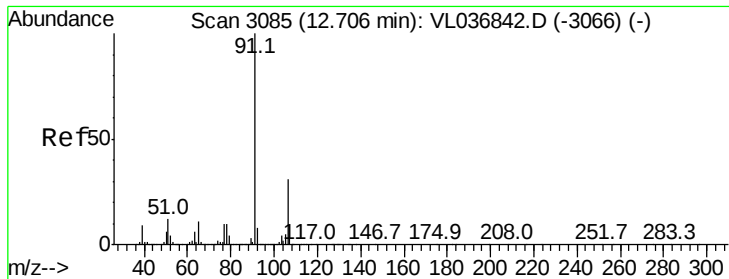
Reviewed By :Semsettin Yesilyurt 05/08/2021
 Supervised By :Mahesh Dadoda 05/10/2021



#57
 Chlorobenzene
 Concen: 0.129 ppbv m
 RT: 12.15 min Scan# 2911
 Delta R.T. 0.00 min
 Lab File: VL036902.D
 Acq: 6 May 2021 14:13

Tgt Ion:112 Resp: 28716
 Ion Ratio Lower Upper
 112 100
 77 120.8 54.2 81.4#
 114 44.1 28.5 34.9#





#58

Ethyl Benzene

Concen: 0.056 ppbv m

RT: 12.71

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 May 2021 14:13

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/08/2021

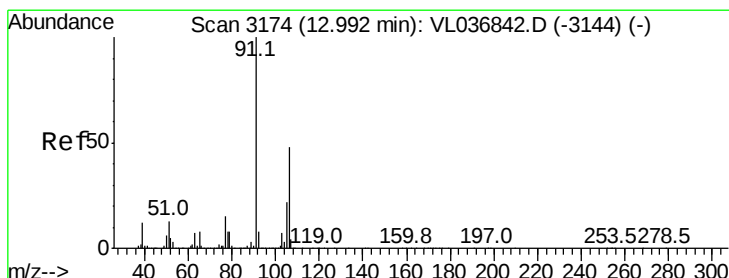
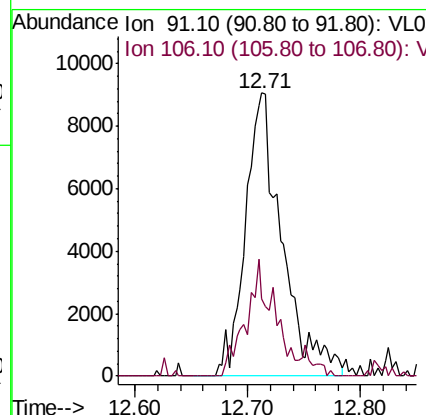
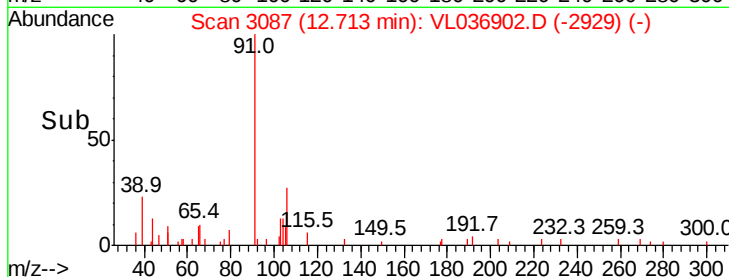
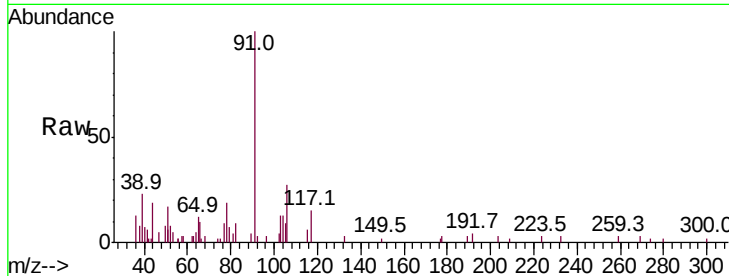
Supervised By :Mahesh Dadoda 05/10/2021

Tot Ion:

Ion Ratio

91 100

106 27.



#59

m/p-Xylene

Concen: 0.111 ppbv m

RT: 13.00 min Scan# 3177

Delta R.T. 0.01 min

Lab File: VL036902.D

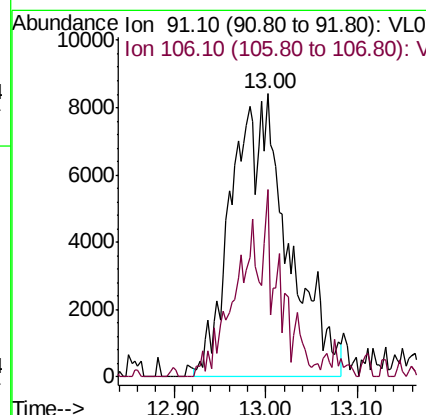
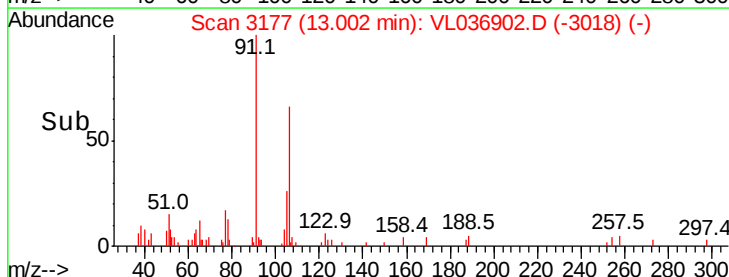
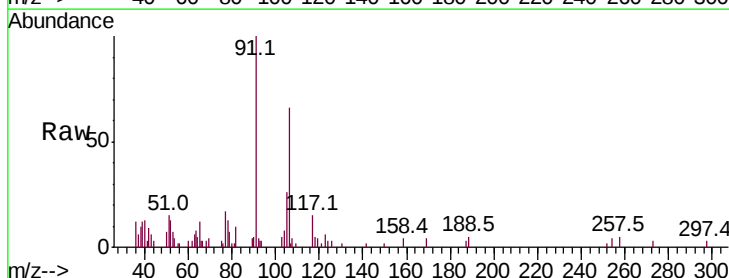
Acq: 6 May 2021 14:13

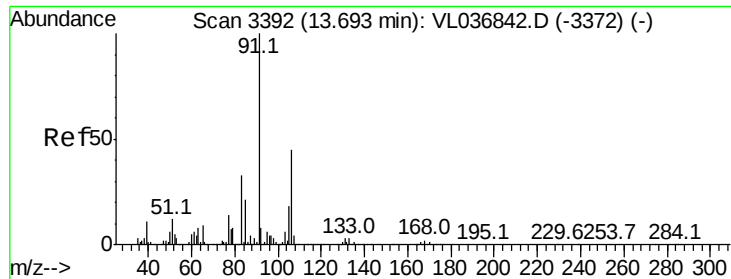
Tgt Ion: 91 Resp: 36019

Ion Ratio Lower Upper

91 100

106 30.8 35.8 53.6#



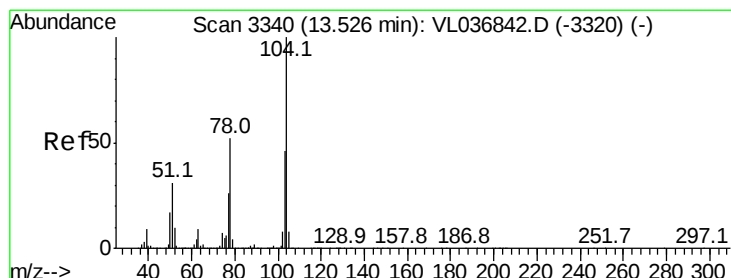
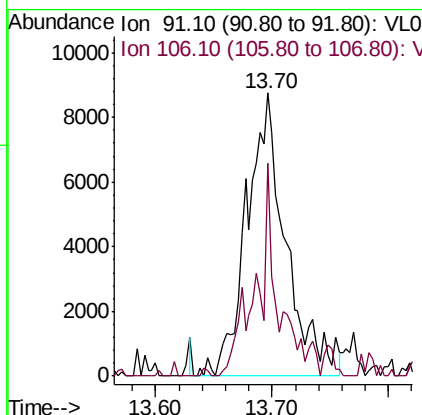
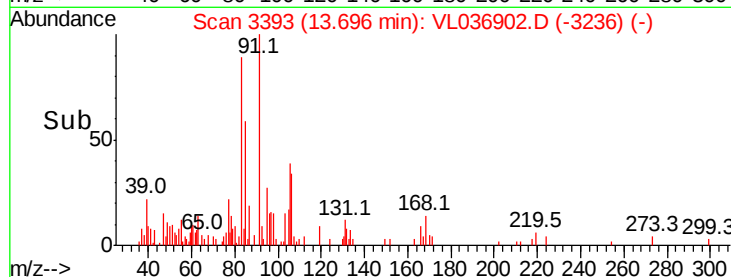
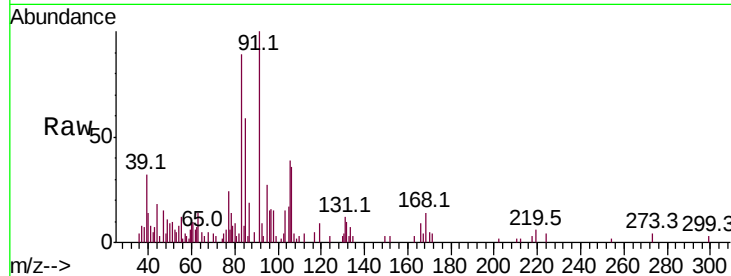


#60
o-Xylene
Concen: 0.065 ppbv m
RT: 13.70 min
Delta R.T. MSVOA_1
Lab File: ClientSampled :
Acq: 6 May 2021 14:13
LOD-MDL-AIR-01-QT2-2021

Tot Ion:
Ion Ratio
91 100
106 45.

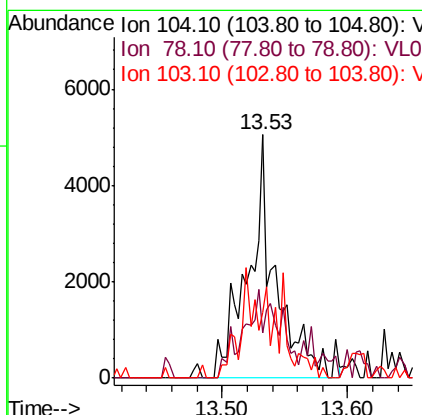
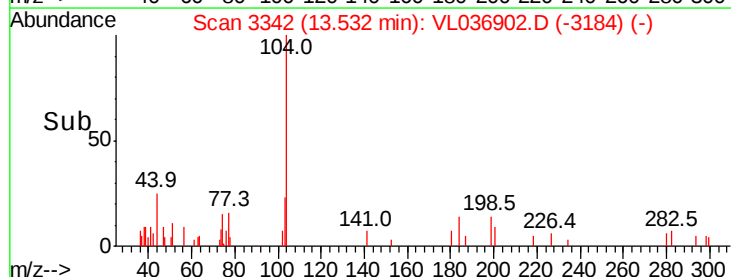
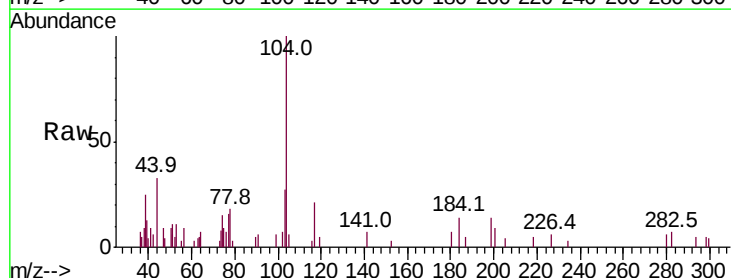
Manual Integrations
APPROVED

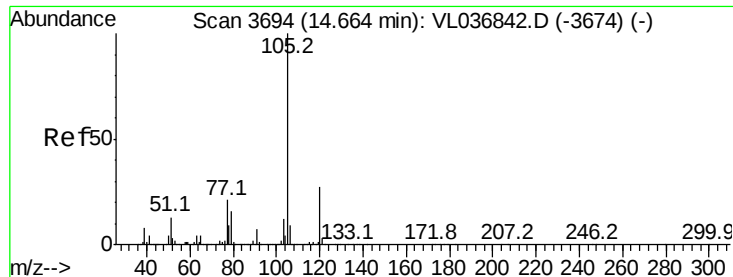
Reviewed By :Semsettin Yesilyurt 05/08/2021
Supervised By :Mahesh Dadoda 05/10/2021



#61
Styrene
Concen: 0.053 ppbv m
RT: 13.53 min Scan# 3342
Delta R.T. 0.01 min
Lab File: VL036902.D
Acq: 6 May 2021 14:13

Tgt Ion:104 Resp: 7847
Ion Ratio Lower Upper
104 100
78 0.0 42.6 64.0#
103 0.0 38.1 57.1#





#62

Isopropylbenzene

Concen: 0.074 ppbv m

RT: 14.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:1

Ion Ratio

105 100

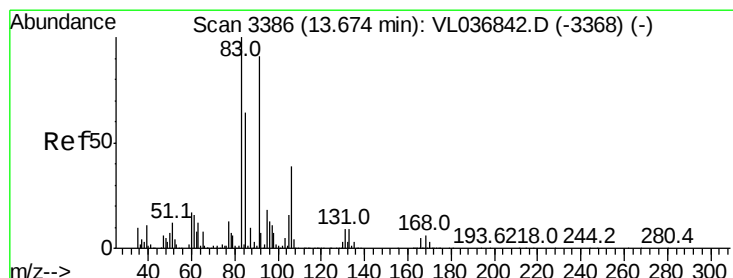
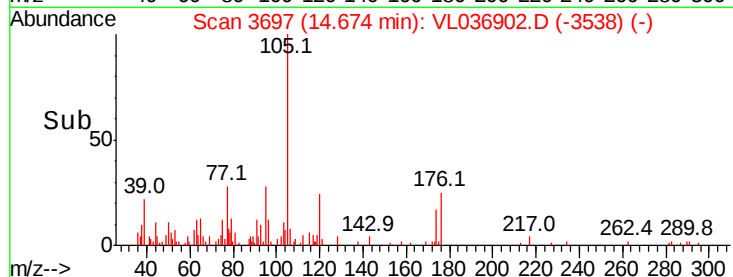
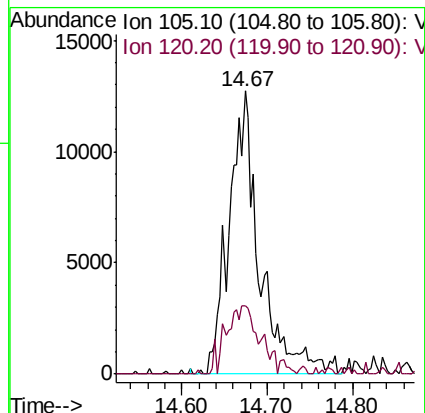
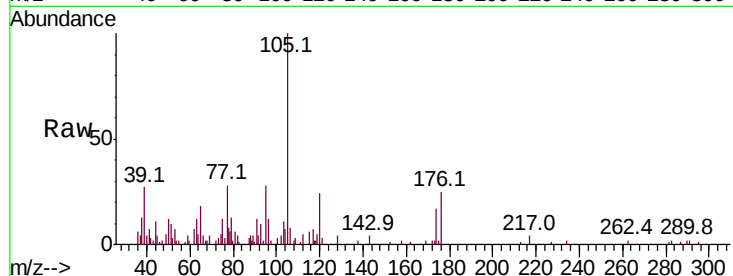
120 1.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#63

1,1,2,2-Tetrachloroethane

Concen: 0.126 ppbv m

RT: 13.69 min Scan# 3392

Delta R.T. 0.02 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

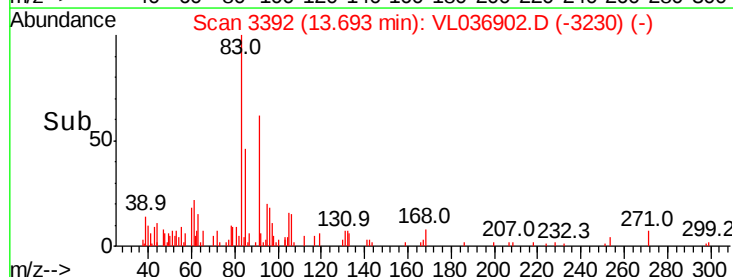
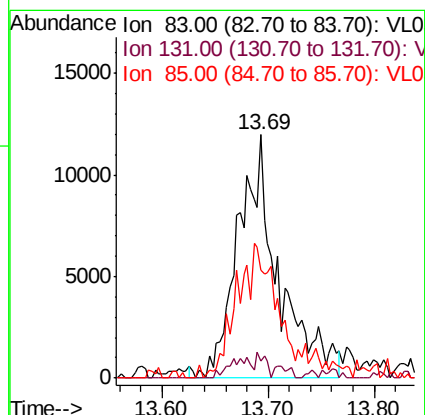
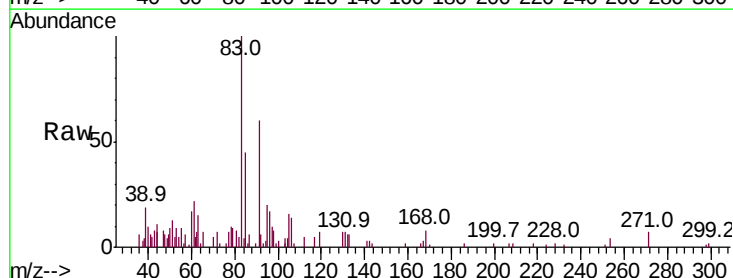
Tgt Ion: 83 Resp: 31720

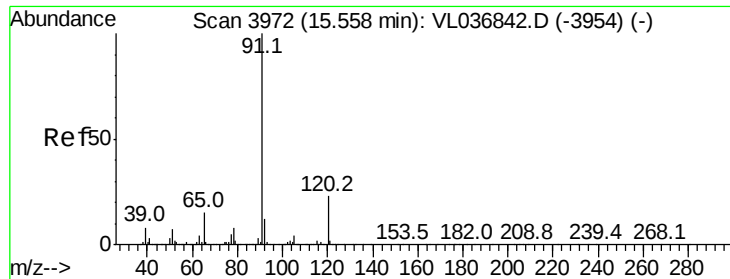
Ion Ratio Lower Upper

83 100

131 4.6 4.8 14.3#

85 0.0 32.8 98.4#





#64

n-propylbenzene

Concen: 0.055 ppbv m

RT: 15.57

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

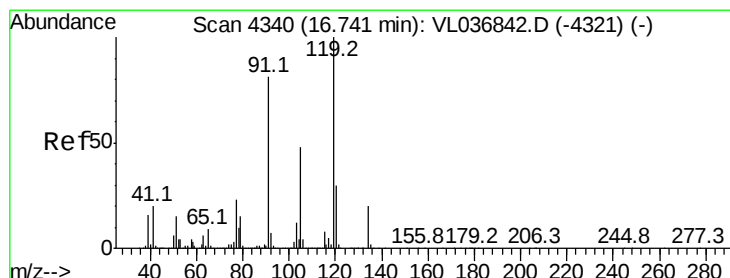
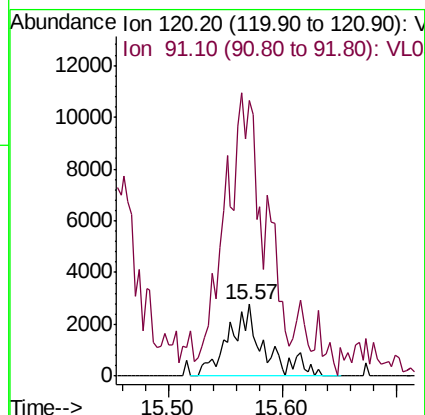
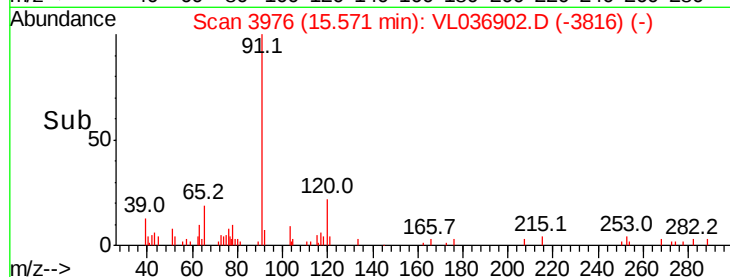
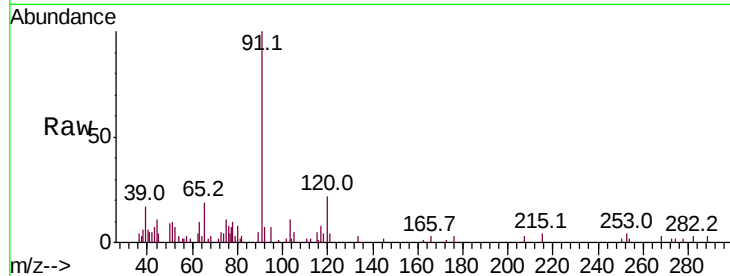
Acq: 6 May 2021 14:13

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#65

tert-Butylbenzene

Concen: 0.055 ppbv m

RT: 16.75 min Scan# 4344

Delta R.T. 0.01 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

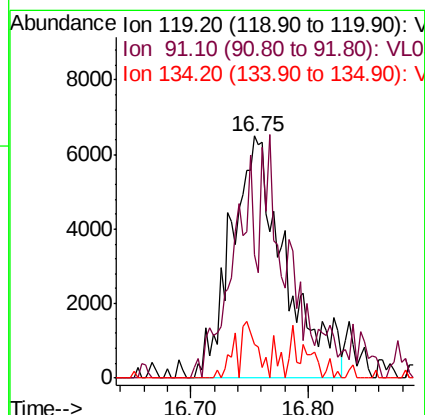
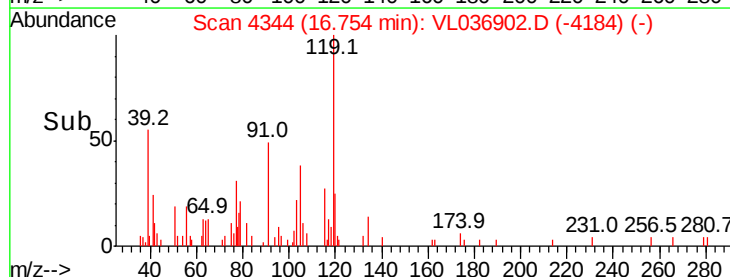
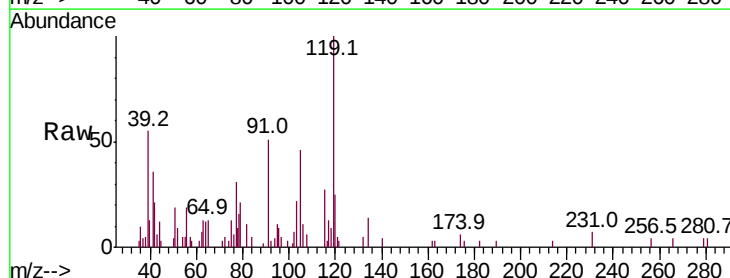
Tgt Ion:119 Resp: 20632

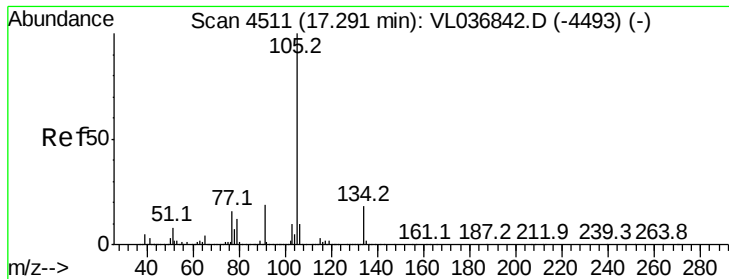
Ion Ratio Lower Upper

119 100

91 0.0 67.0 100.6#

134 8.9 15.8 23.6#





#67

sec-Butylbenzene

Concen: 0.054 ppbv m

RT: 17.31

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 6 May 2021 14:13

Tot Ion:1

Ion Ratio

105 100

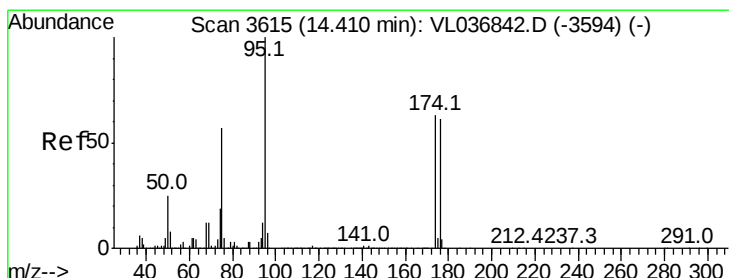
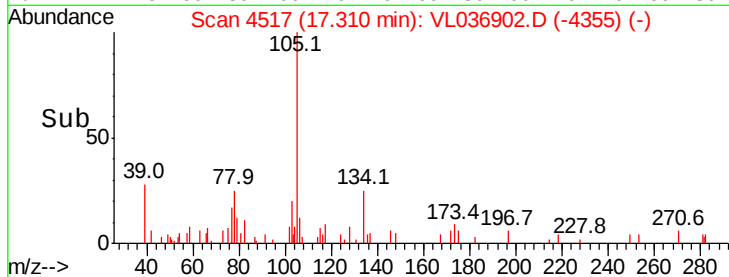
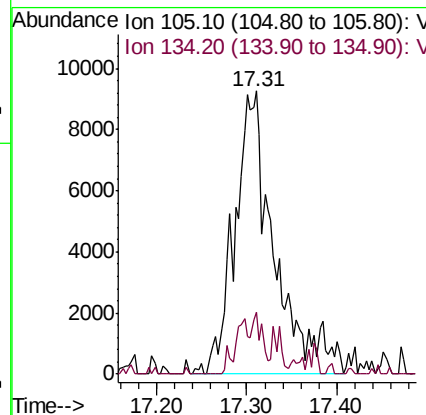
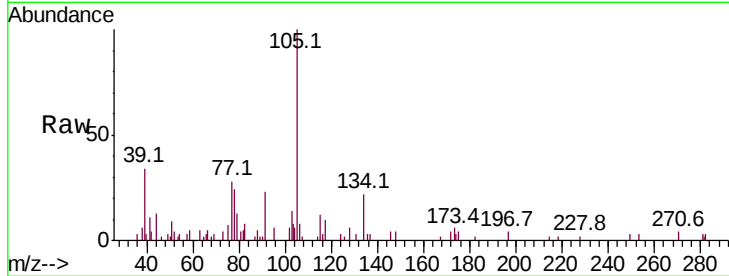
134 0.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021

Supervised By :Mahesh Dadoda 05/10/2021



#68

1-Bromo-4-Fluorobenzene

Concen: 10.153 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.01 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

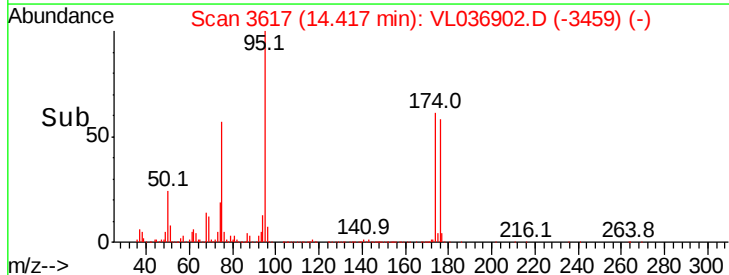
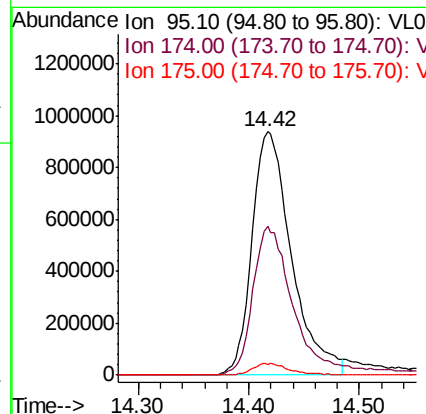
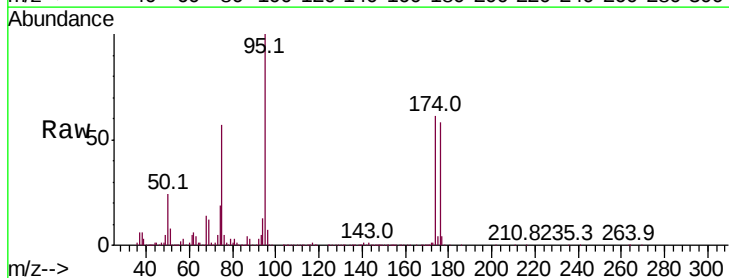
Tgt Ion: 95 Resp: 2329981

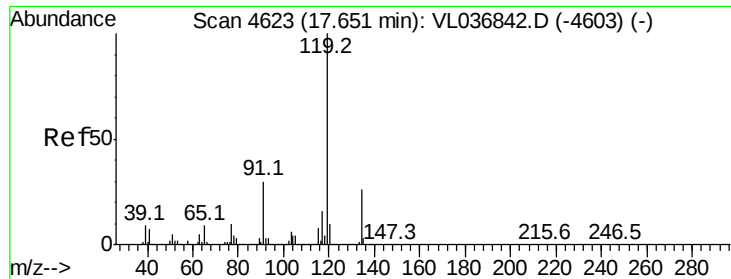
Ion Ratio Lower Upper

95 100

174 66.6 52.2 78.2

175 4.8 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.045 ppbv m

RT: 17.67

Delta R.T. MSVOA_L

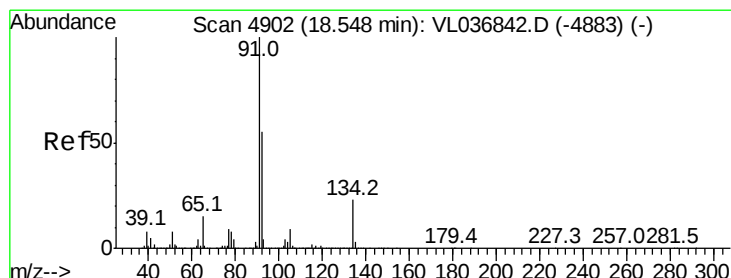
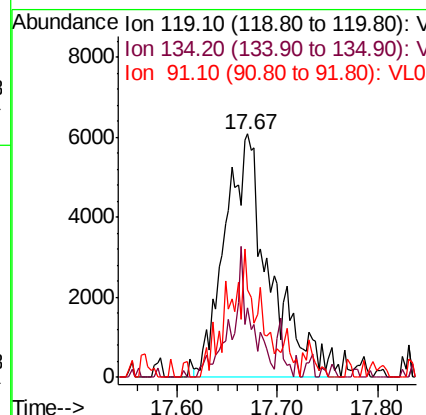
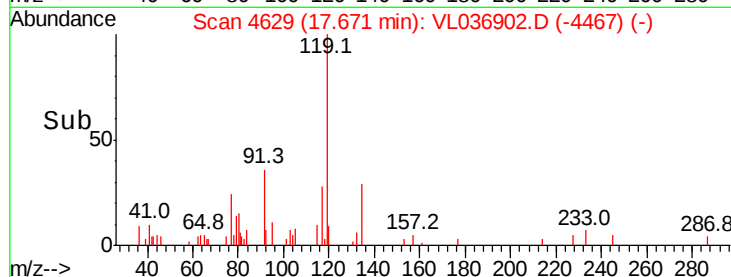
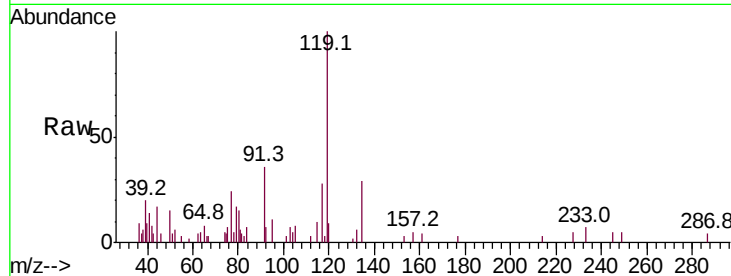
Lab File: ClientSampleId:

Acq: 6 May 2021 14:13

Tot Ion:1
Ion Rati
119 100
134 26.
91 42.

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2021
Supervised By :Mahesh Dadoda 05/10/2021



#70

n-Butylbenzene

Concen: 0.046 ppbv m

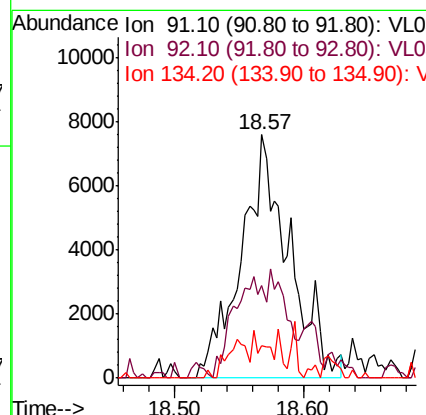
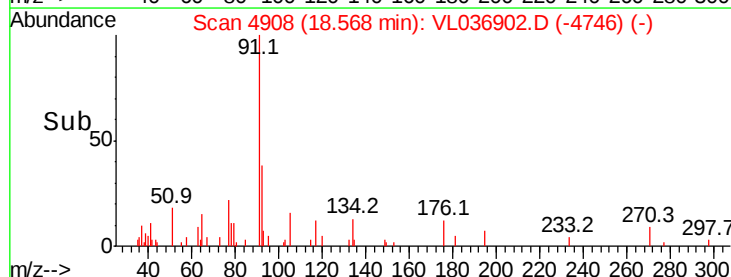
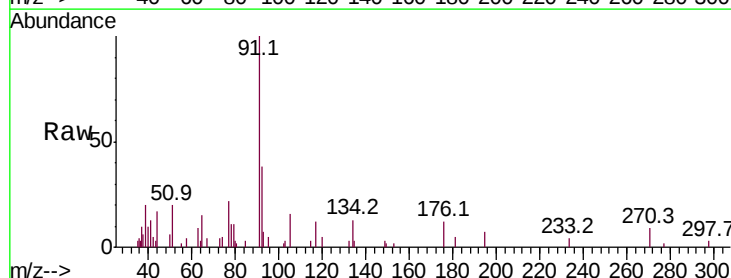
RT: 18.57 min Scan# 4908

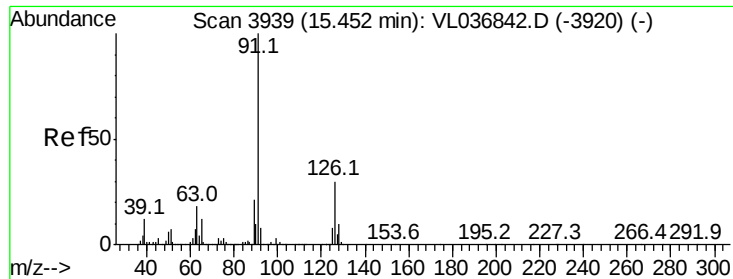
Delta R.T. 0.02 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

Tgt Ion: 91 Resp: 19468
Ion Ratio Lower Upper
91 100
92 0.0 43.5 65.3#
134 9.1 18.2 27.4#



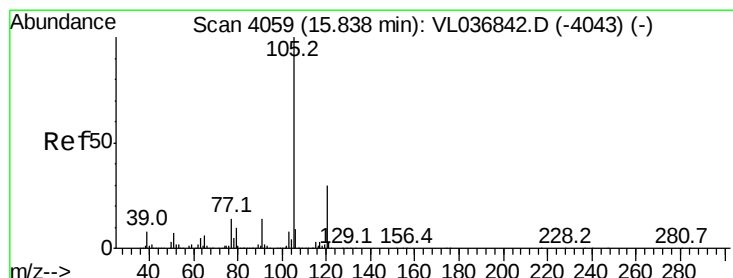
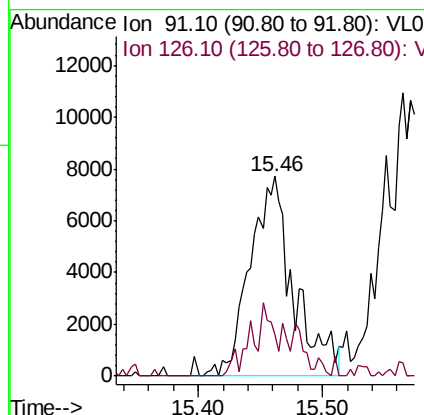
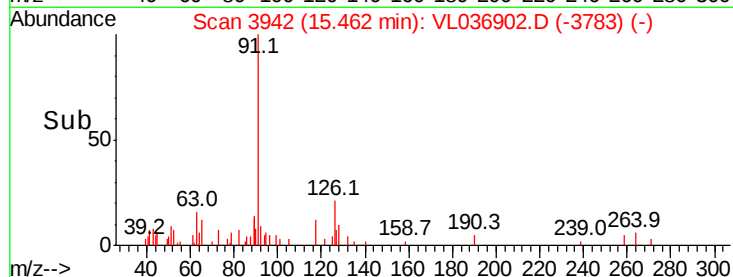
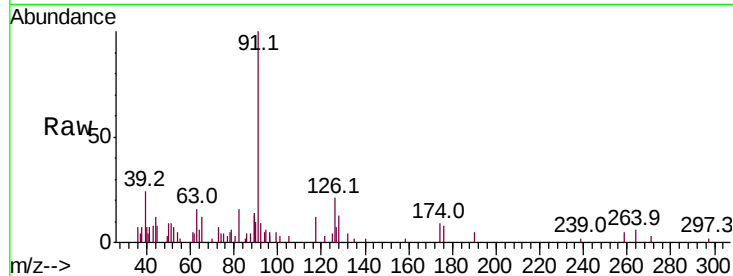


#71
 2-Chlorotoluene
 Concen: 0.060 ppbv m
 RT: 15.46
 Instrument: MSVOA_1
 Delta R.T.
 Client Sample Id:
 Lab File: LOD-MDL-AIR-01-QT2-2021
 Acq: 6 May 2021 14:13

Tot Ion:
 Ion Ratio
 91 100
 126 1.

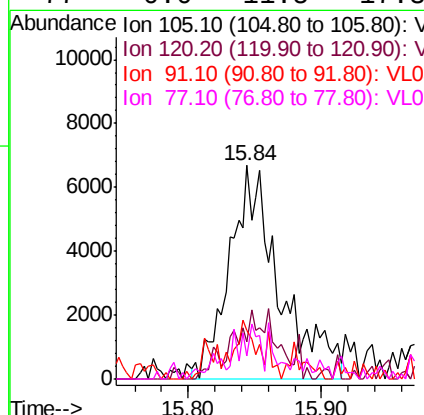
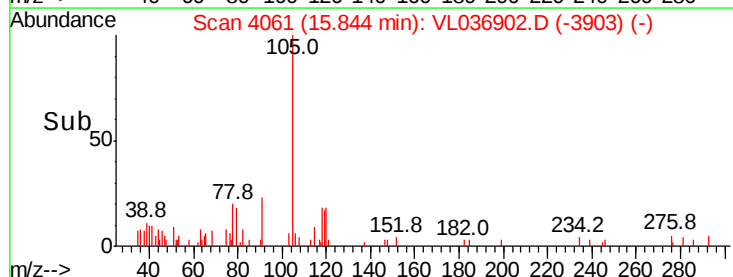
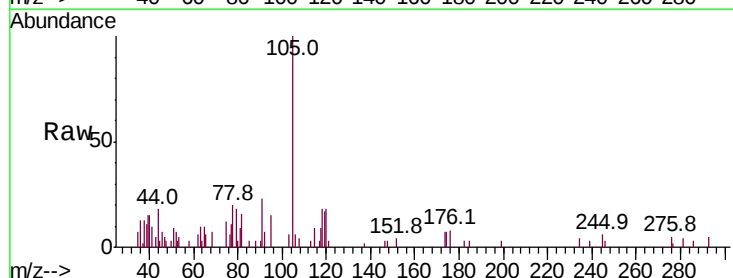
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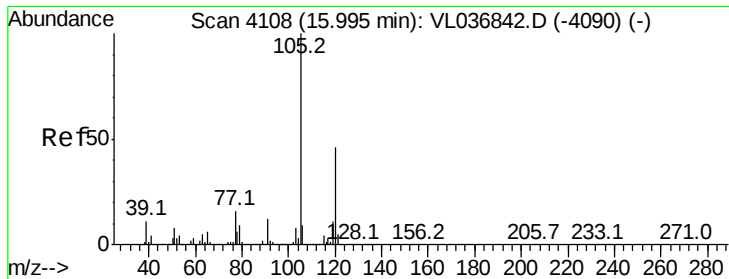
Reviewed By :Semsettin Yesilyurt 05/08/2021
 Supervised By :Mahesh Dadoda 05/10/2021



#72
 4-Ethyltoluene
 Concen: 0.051 ppbv m
 RT: 15.84 min Scan# 4061
 Delta R.T. 0.01 min
 Lab File: VL036902.D
 Acq: 6 May 2021 14:13

Tgt Ion:105 Resp: 17303
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.8 35.6#
 91 0.0 10.7 16.1#
 77 0.0 11.5 17.3#



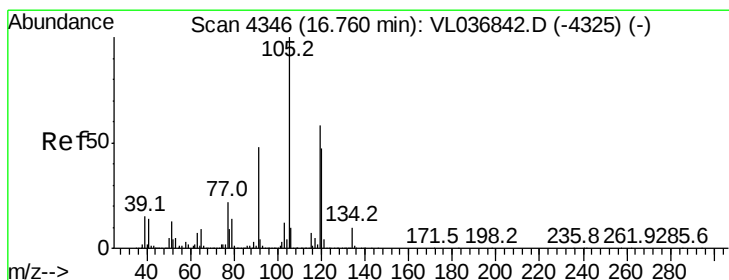
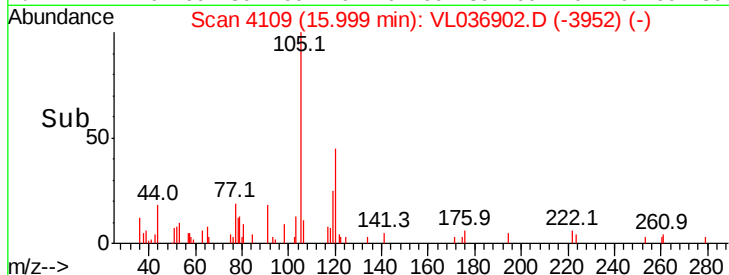
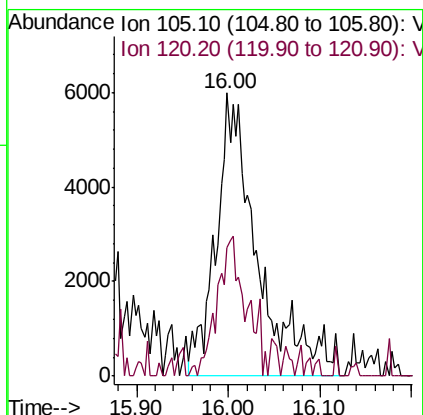
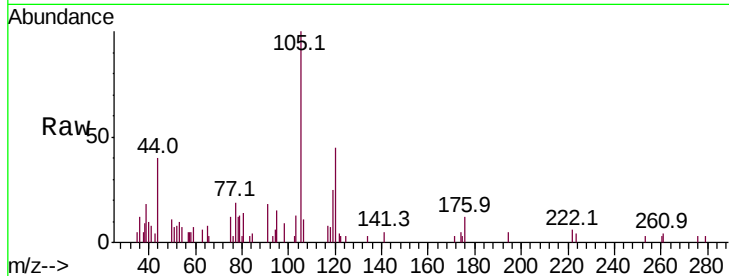


#73
 1,3,5-Trimethylbenzene
 Concen: 0.058 ppbv m
 RT: 16.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 6 May 2021 14:13

Tot Ion:1
 Ion Rati
 105 100
 120 45.

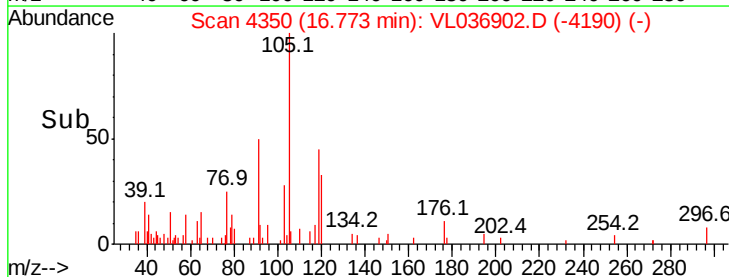
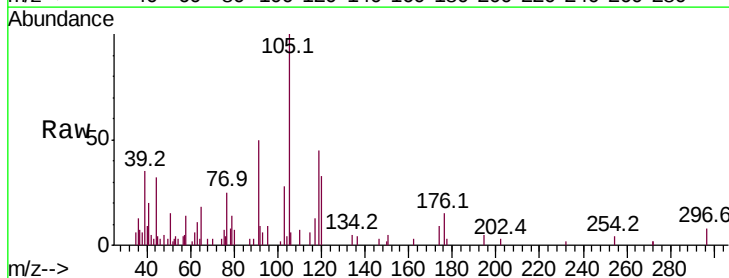
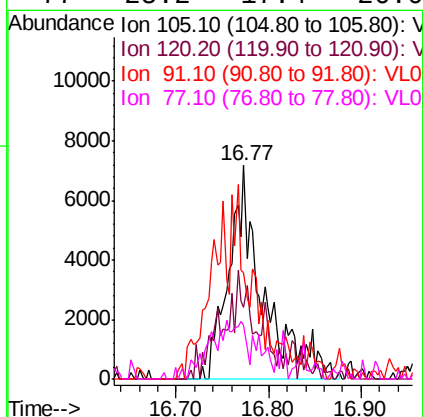
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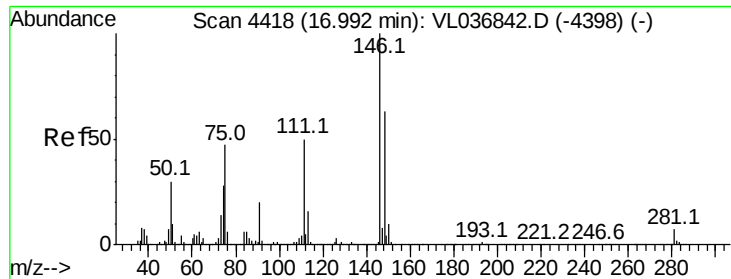
Reviewed By :Semsettin Yesilyurt 05/08/2021
 Supervised By :Mahesh Dadoda 05/10/2021



#74
 1,2,4-Trimethylbenzene
 Concen: 0.053 ppbv m
 RT: 16.77 min Scan# 4350
 Delta R.T. 0.01 min
 Lab File: VL036902.D
 Acq: 6 May 2021 14:13

Tgt Ion:105 Resp: 18376
 Ion Ratio Lower Upper
 105 100
 120 33.4 37.6 56.4#
 91 49.7 39.0 58.4
 77 25.2 17.4 26.0



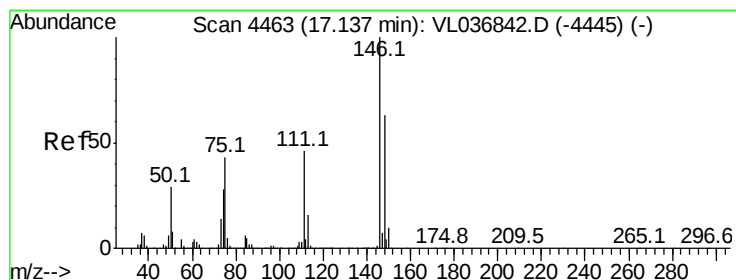
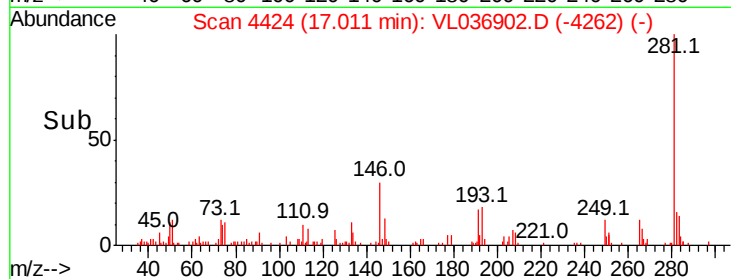
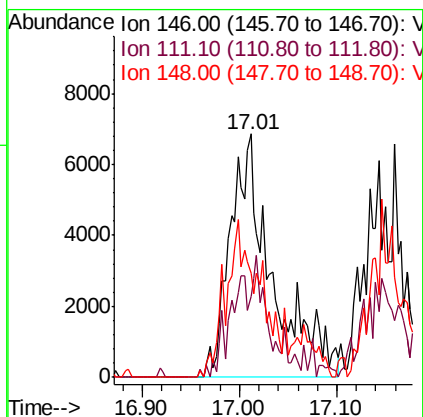
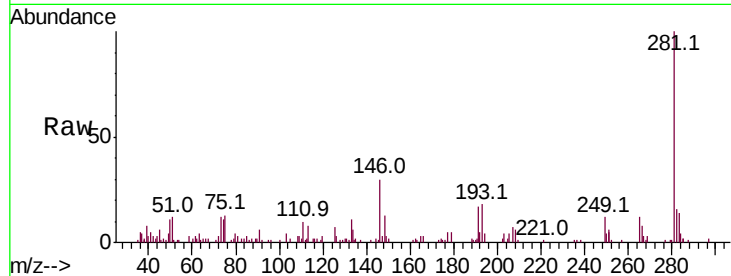


#75
 1,3-Dichlorobenzene
 Concen: 0.099 ppbv m
 RT: 17.01 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 6 May 2021 14:13
 LOD-MDL-AIR-01-QT2-2021

Tot Ion:1
 Ion Rati
 146 100
 111 0.
 148 0.

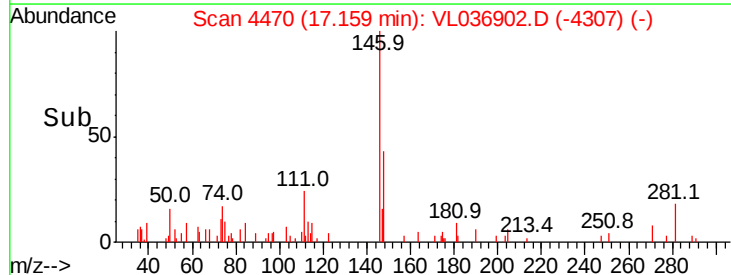
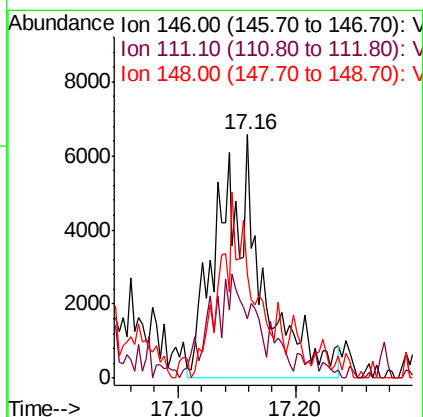
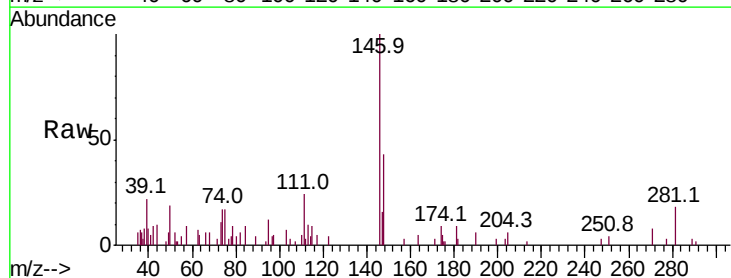
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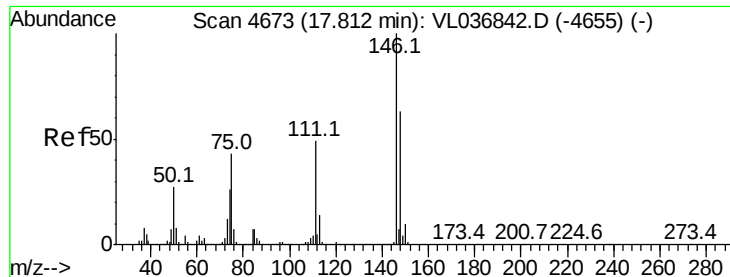
Reviewed By :Semsettin Yesilyurt 05/08/2021
 Supervised By :Mahesh Dadoda 05/10/2021



#76
 1,4-Dichlorobenzene
 Concen: 0.085 ppbv m
 RT: 17.16 min Scan# 4470
 Delta R.T. 0.02 min
 Lab File: VL036902.D
 Acq: 6 May 2021 14:13

Tgt Ion:146 Resp: 17115
 Ion Ratio Lower Upper
 146 100
 111 51.2 24.3 72.8
 148 74.0 32.4 97.0





#77

1,2-Dichlorobenzene

Concen: 0.082 ppbv m

RT: 17.83

Delta R.T. MSVOA_L

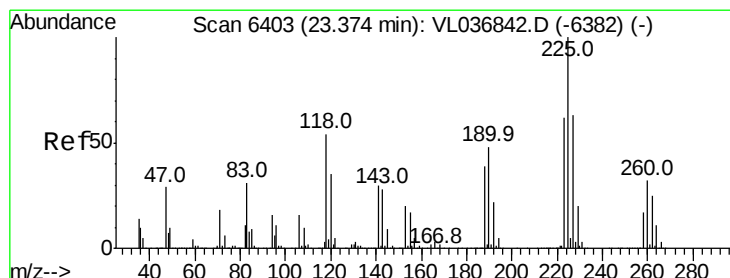
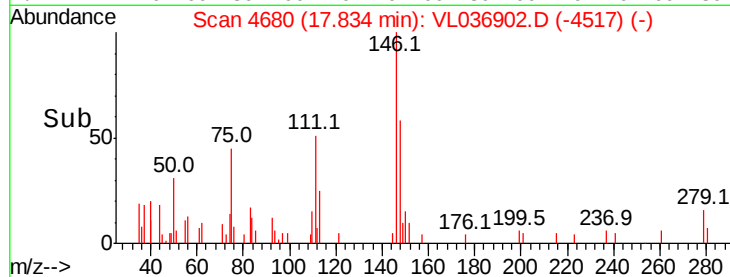
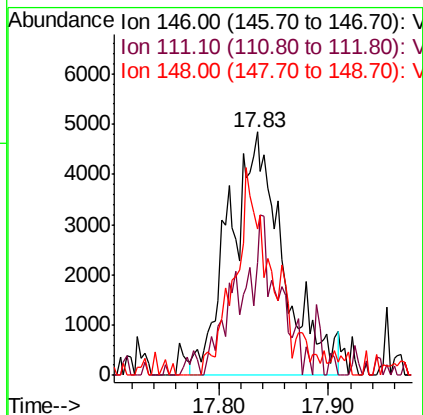
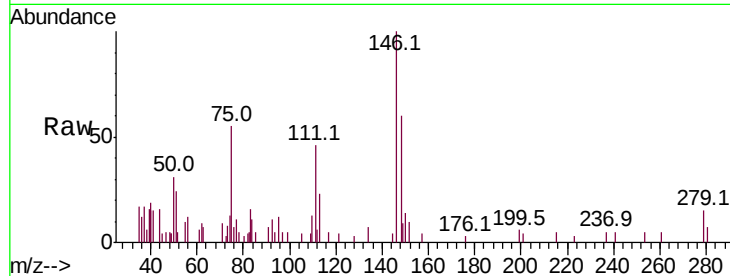
Lab File: ClientSampleId:

Acq: 6 May 2021 14:13 LOD-MDL-AIR-01-QT2-2021

Tot Ion:1
Ion Rati
146 100
111 0.
148 64.

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Reviewed By :Semsettin Yesilyurt 05/08/2021
Supervised By :Mahesh Dadoda 05/10/2021



#78

Hexachloro-1,3-Butadiene

Concen: 0.136 ppbv m

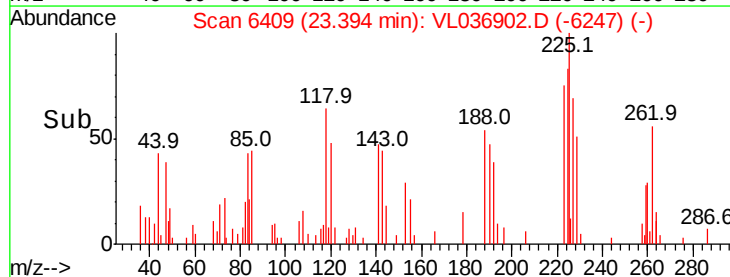
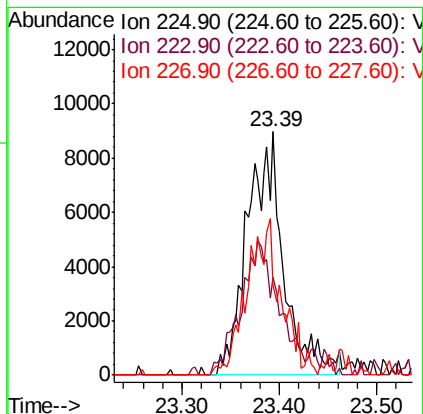
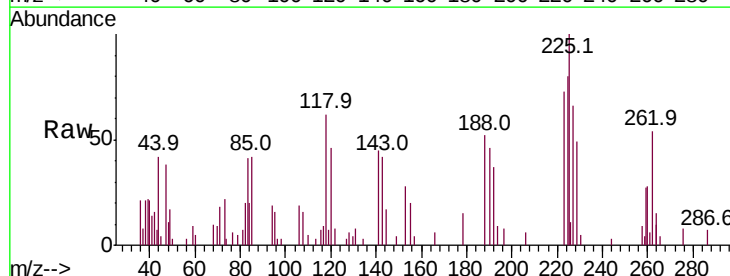
RT: 23.39 min Scan# 6409

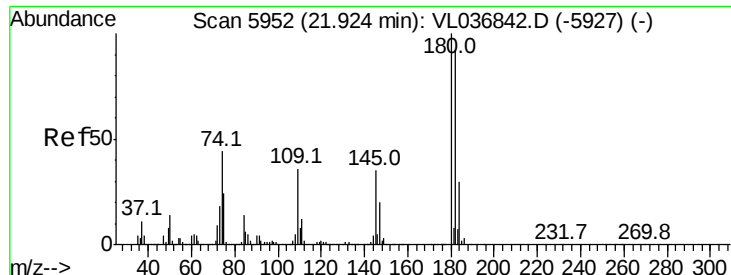
Delta R.T. 0.02 min

Lab File: VL036902.D

Acq: 6 May 2021 14:13

Tgt Ion:225 Resp: 23154
Ion Ratio Lower Upper
225 100
223 0.0 51.2 76.8#
227 60.0 51.8 77.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.047 ppbv m
 RT: 21.95
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 LOD-MDL-AIR-01-QT2-2021
 Acq: 6 May 2021 14:15

Tot Ion:1
 Ion Rati
 180 100
 182 0.
 184 0.

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/08/2021
 Supervised By :Mahesh Dadoda 05/10/2021

