

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038206.D
 Acq On : 17 Dec 2021 2:18
 Operator : SY/AP
 Sample : M5119-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG-4

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021

Quant Time: Dec 18 04:37:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	823906	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2509354	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.13	117	1359481	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2828803	28.85	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	288.50%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	25047732	184.048	ppbv #	35
3) Chlorodifluoromethane	3.00	51	2528510	14.614	ppbv	96
5) Vinyl Chloride	3.27	62	45861	0.794	ppbv	91
7) Chloroethane	3.57	64	10516m	0.513	ppbv	
9) Propene	3.02	41	8330393	130.730	ppbv	84
10) Heptane	8.14	43	7025254	44.608	ppbv	97
11) Trichlorofluoromethane	3.96	101	106958	0.826	ppbv	99
13) Ethanol	3.61	45	302486	49.121	ppbv	86
15) Acetone	3.85	43	9307715	130.298	ppbv #	85
19) Isopropyl Alcohol	3.98	45	4682082	90.714	ppbv #	1
20) Methylene Chloride	4.36	84	1561477	39.026	ppbv	96
26) Hexane	5.70	57	1285234	11.232	ppbv #	53
27) Carbon Disulfide	4.56	76	91655	0.894	ppbv #	89
30) Cyclohexane	7.14	84	94038	0.905	ppbv #	1
34) 2-Butanone	5.25	43	5083187	50.237	ppbv	97
36) Benzene	6.90	78	754864	3.016	ppbv	99
38) Trichloroethene	7.84	130	16293m	0.173	ppbv	
43) Methyl Methacrylate	8.02	69	300998	3.515	ppbv	99
52) Tetrachloroethene	11.28	164	26789m	0.289	ppbv	
53) Toluene	9.82	91	1198786	4.162	ppbv	98
58) Ethyl Benzene	12.77	91	21918530	97.547	ppbv #	71
59) m/p-Xylene	13.04	91	28282065	149.522	ppbv #	78
60) o-Xylene	13.75	91	9840395	56.081	ppbv	97
62) Isopropylbenzene	14.70	105	197207	0.792	ppbv	100
64) n-propylbenzene	15.58	120	12756m	0.201	ppbv	
69) p-Isopropyltoluene	17.66	119	433120	1.811	ppbv	99
72) 4-Ethyltoluene	15.87	105	61501m	0.302	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	46419	0.250	ppbv	96
74) 1,2,4-Trimethylbenzene	16.78	105	168301	0.879	ppbv #	68

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

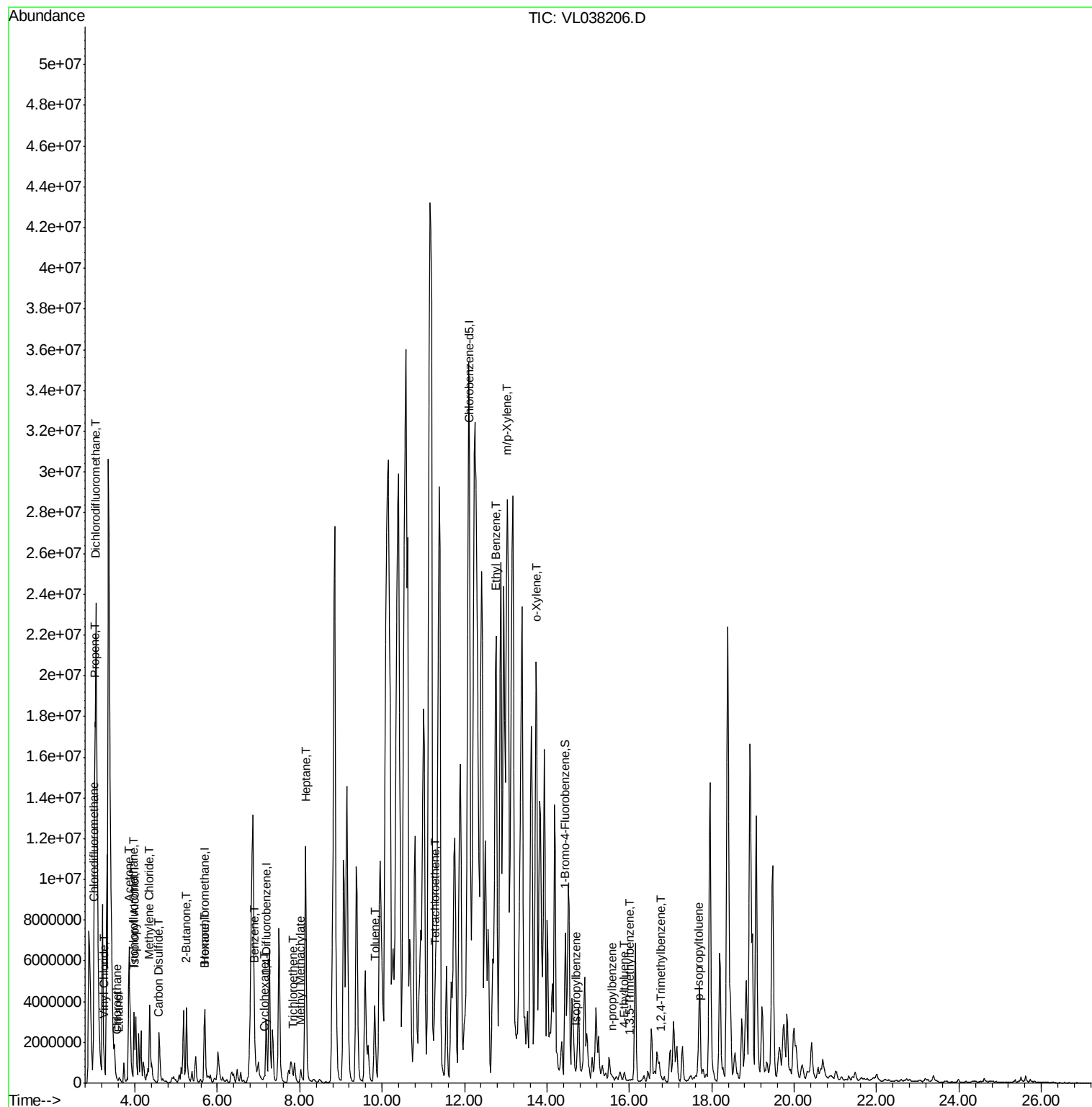
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121621\
Data File : VL038206.D
Acq On : 17 Dec 2021 2:18
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
QLast Update : Thu Nov 18 13:16:09 2021
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Supervised By :Mahesh Dadoda 12/20/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 17 Dec 2021 2:18

Tot Ion:

Ion Ratio

49 100

128 50.

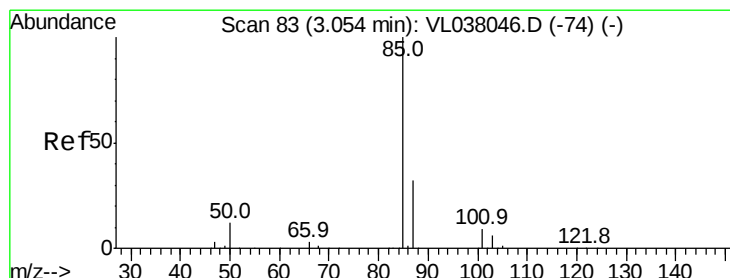
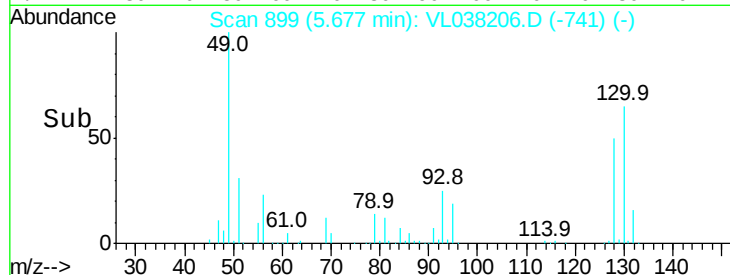
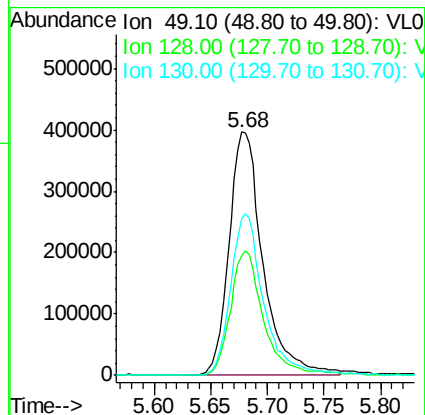
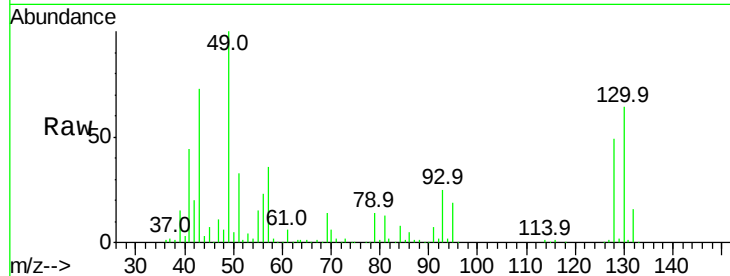
130 65.

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#2

Dichlorodifluoromethane

Concen: 184.048 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038206.D

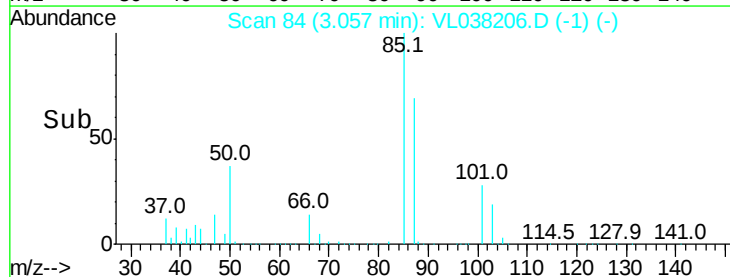
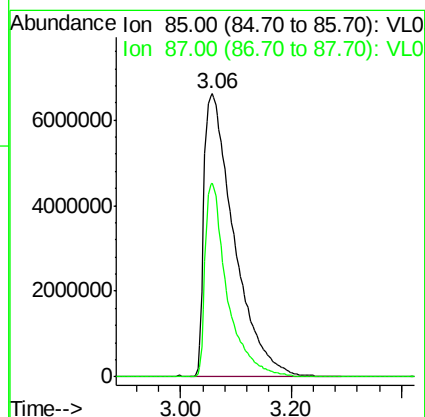
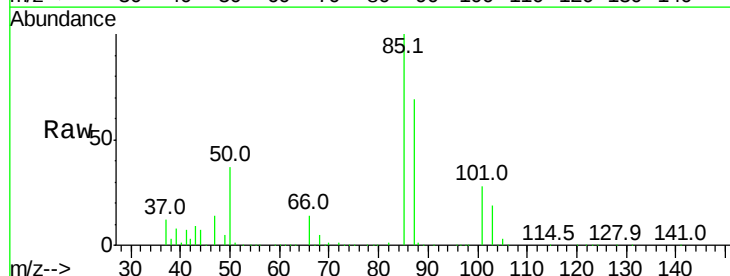
Acq: 17 Dec 2021 2:18

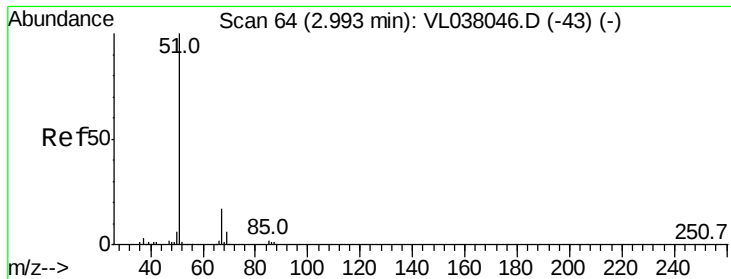
Tgt Ion: 85 Resp:25047732

Ion Ratio Lower Upper

85 100

87 68.6 25.8 38.6#





#3

Chlorodifluoromethane

Concen: 14.614 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Dec 2021 2:18

Tot Ion:

Ion Ratio

51 100

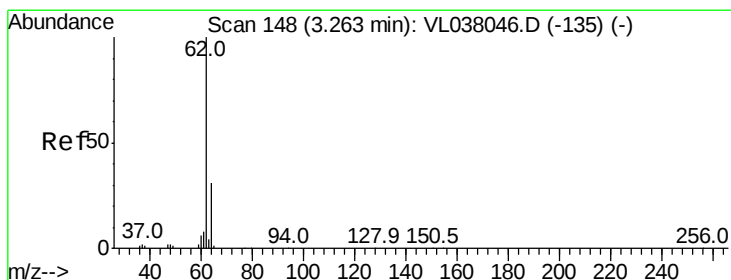
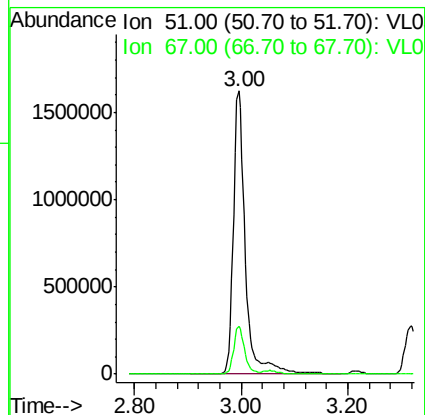
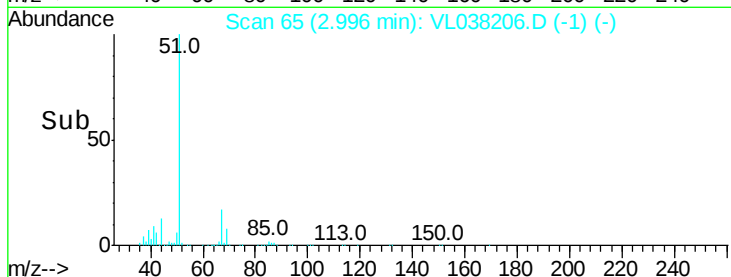
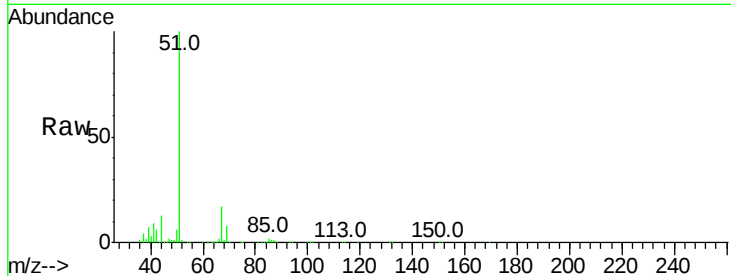
67 15.

Manual Integrations

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#5

Vinyl Chloride

Concen: 0.794 ppbv

RT: 3.27 min Scan# 149

Delta R.T. 0.00 min

Lab File: VL038206.D

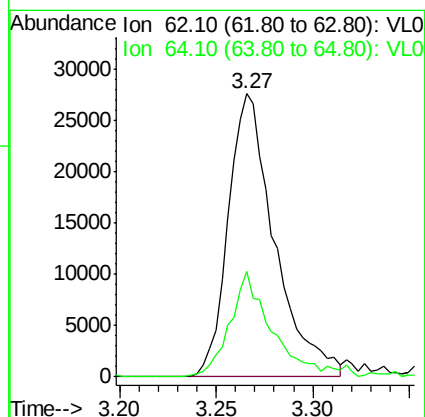
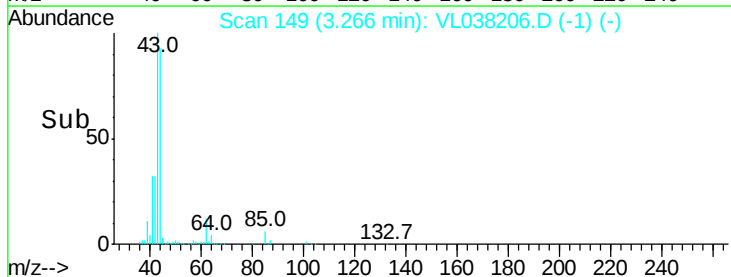
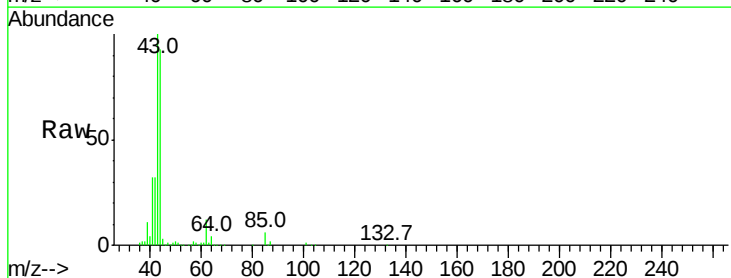
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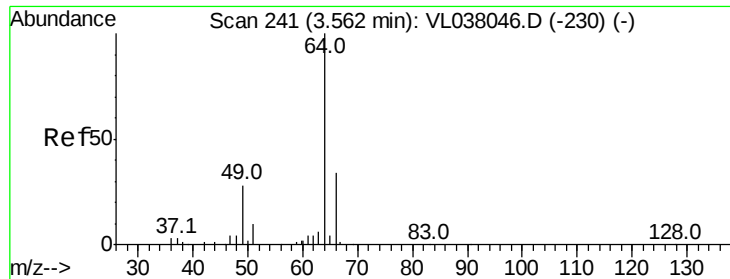
Tgt Ion: 62 Resp: 45861

Ion Ratio Lower Upper

62 100

64 36.4 25.1 37.7





#7

Chloroethane

Concen: 0.513 ppbv m

RT: 3.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Dec 2021 2:18

Tot Ion:

Ion Ratio

64 100

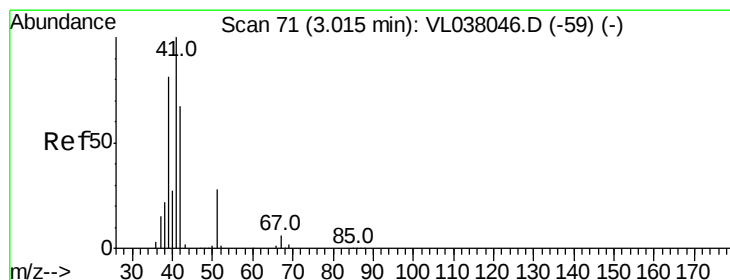
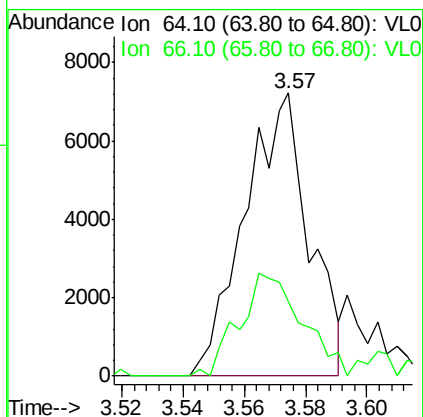
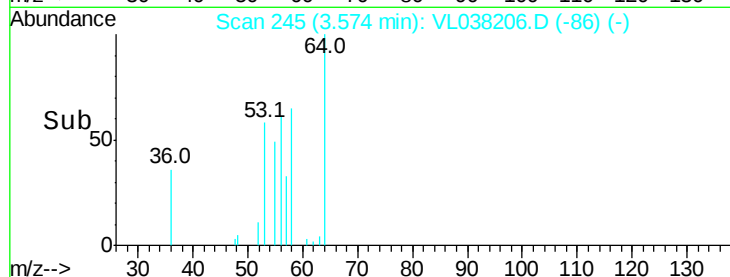
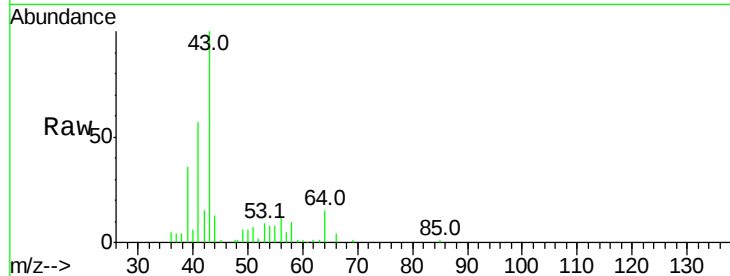
66 26.

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Reviewed By :Amit Patel 12/20/2021

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#9

Propene

Concen: 130.730 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL038206.D

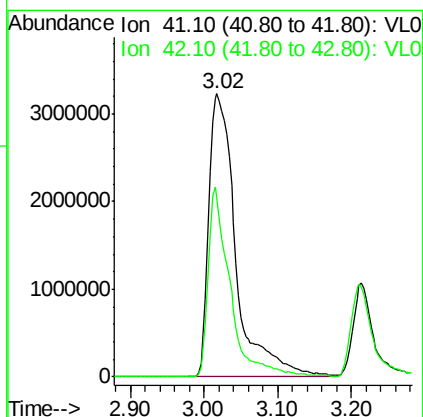
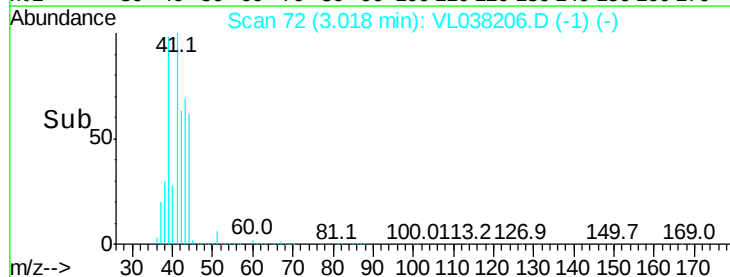
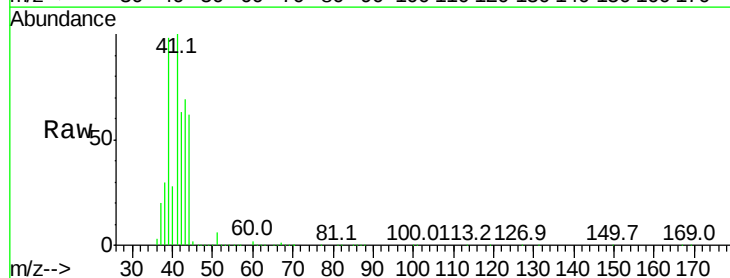
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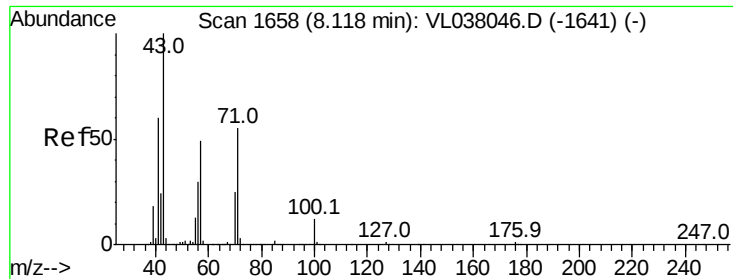
Tgt Ion: 41 Resp: 8330393

Ion Ratio Lower Upper

41 100

42 54.3 53.8 80.8



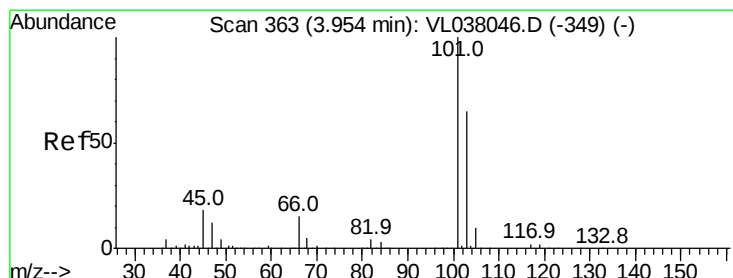
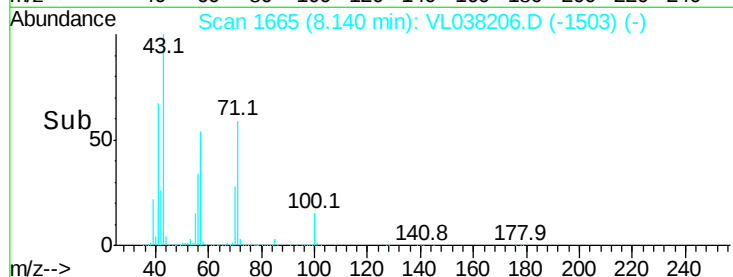
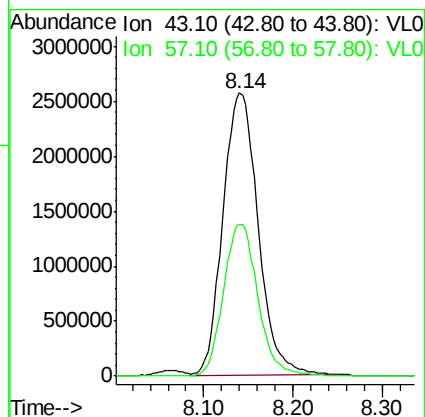
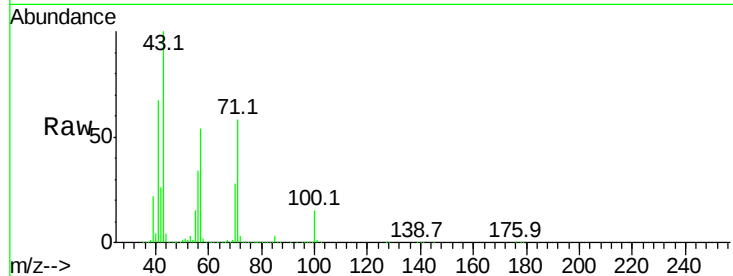


#10
 Heptane
 Concen: 44.608 ppbv
 RT: 8.14
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 17 Dec 2021 2:18

Tot Ion:
 Ion Ratio
 43 100
 57 52.

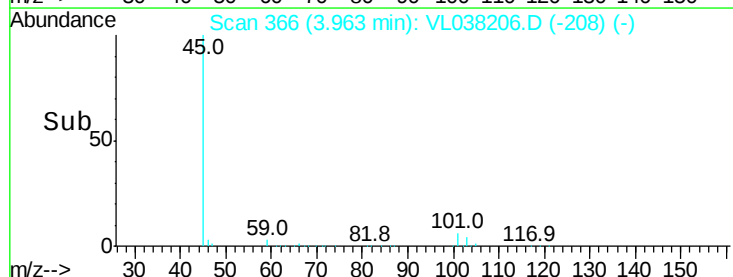
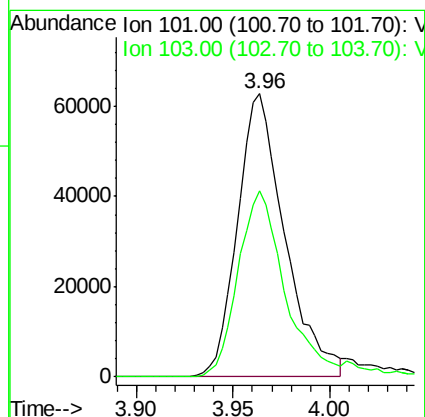
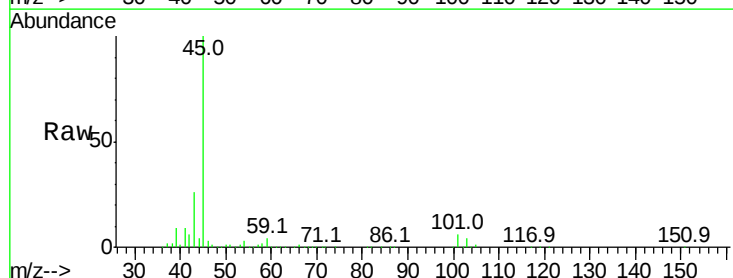
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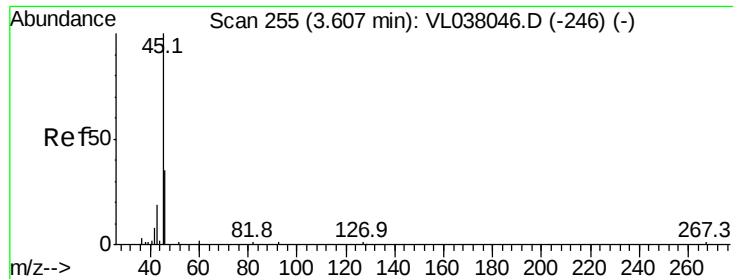
Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021



#11
 Trichlorofluoromethane
 Concen: 0.826 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL038206.D
 Acq: 17 Dec 2021 2:18

Tgt Ion:101 Resp: 106958
 Ion Ratio Lower Upper
 101 100
 103 65.5 51.8 77.6



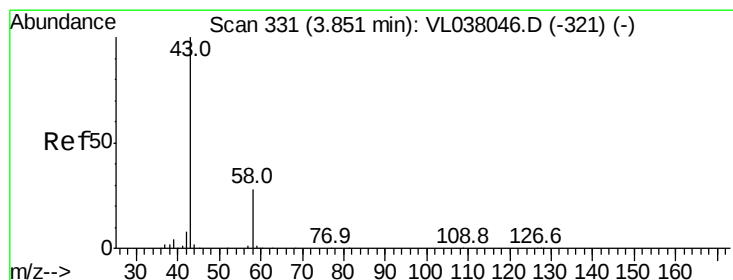
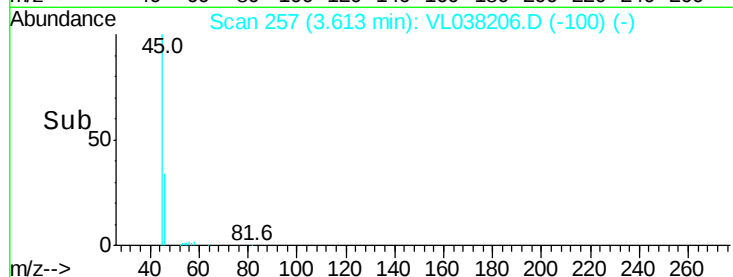
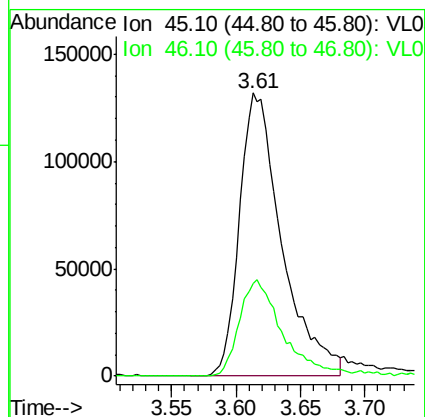
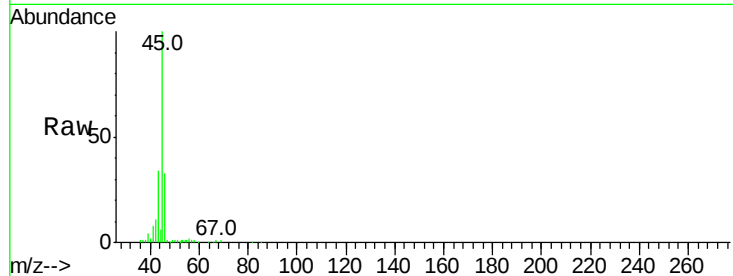


#13
 Ethanol
 Concen: 49.121 ppbv
 RT: 3.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 17 Dec 2021 2:18

Tot Ion:
 Ion Ratio
 45 100
 46 34.

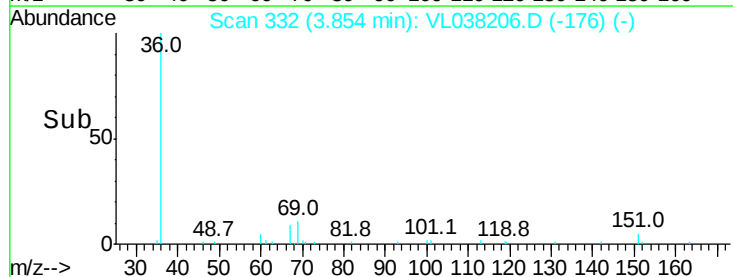
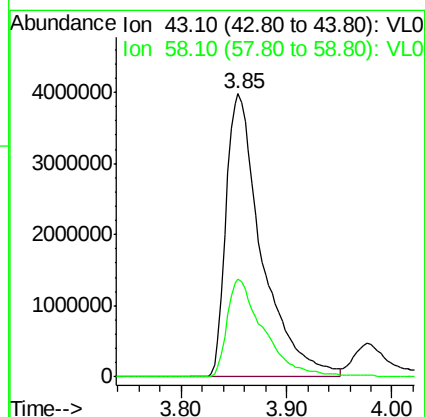
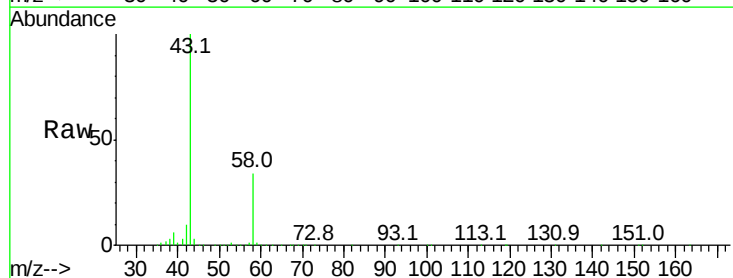
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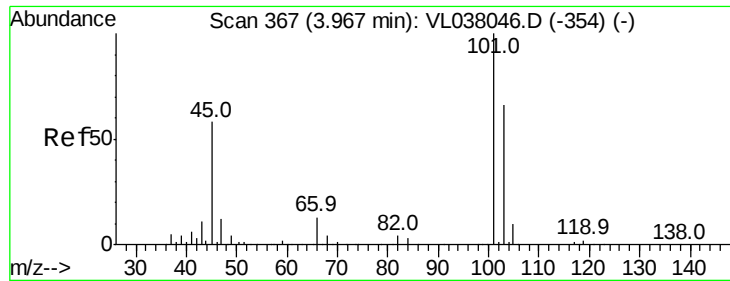
Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021



#15
 Acetone
 Concen: 130.298 ppbv
 RT: 3.85 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL038206.D
 Acq: 17 Dec 2021 2:18

Tgt Ion: 43 Resp: 9307715
 Ion Ratio Lower Upper
 43 100
 58 36.0 22.4 33.6#



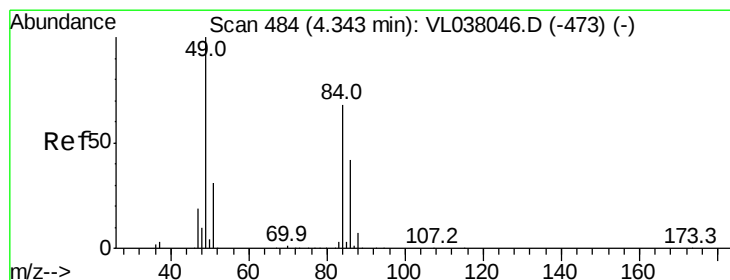
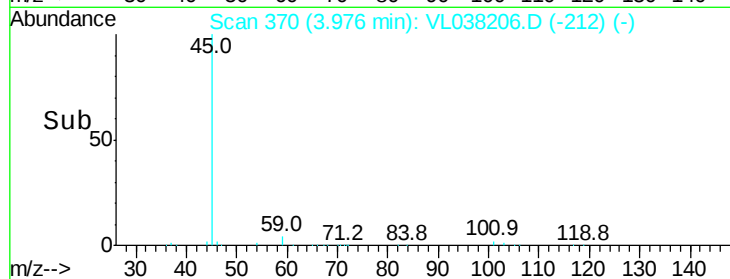
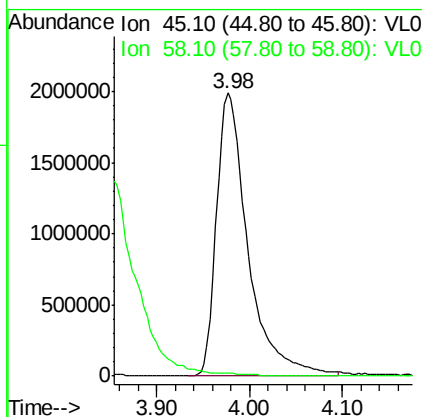
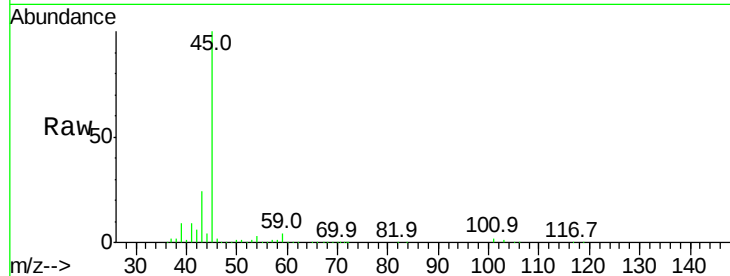


#19
Isopropyl Alcohol
Concen: 90.714 ppbv
RT: 3.98
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 17 Dec 2021 2:18

Tot Ion:
Ion Ratio
45 100
58 71.

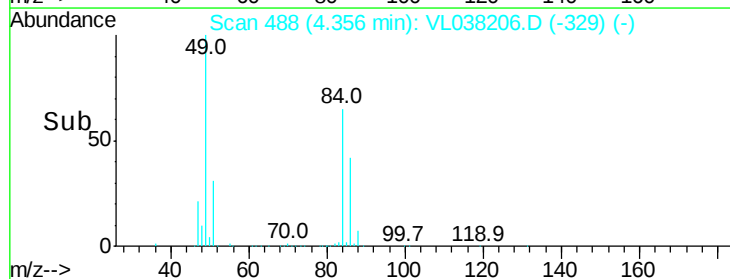
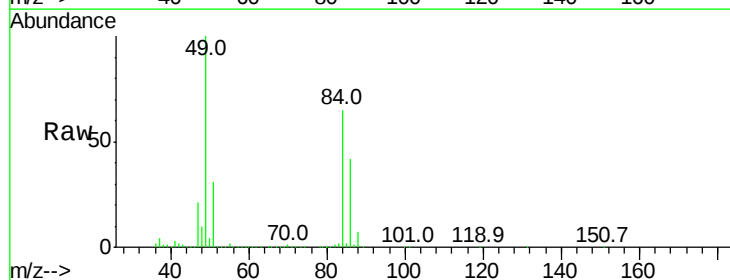
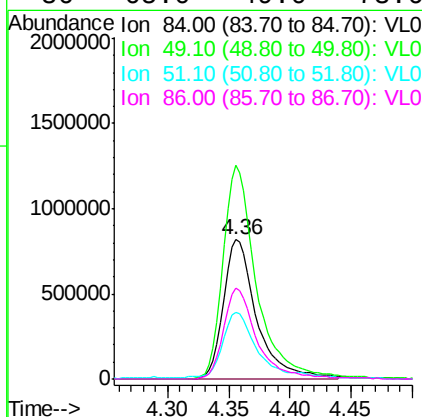
Manual Integrations
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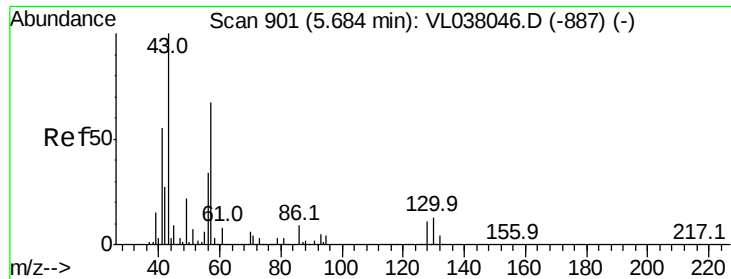
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#20
Methylene Chloride
Concen: 39.026 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.01 min
Lab File: VL038206.D
Acq: 17 Dec 2021 2:18

Tgt Ion: 84 Resp: 1561477
Ion Ratio Lower Upper
84 100
49 153.4 118.2 177.2
51 46.3 36.8 55.2
86 65.0 49.0 73.6



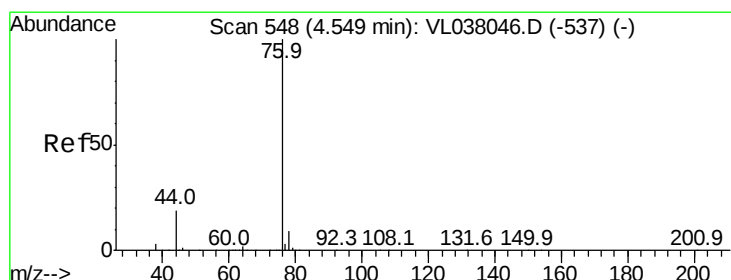
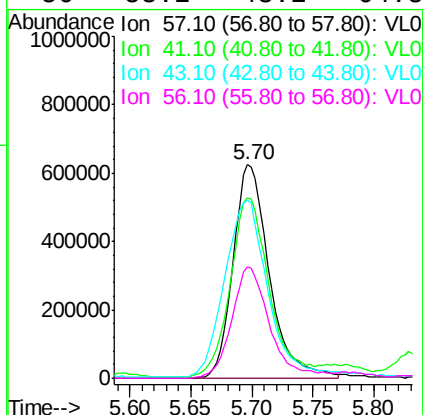
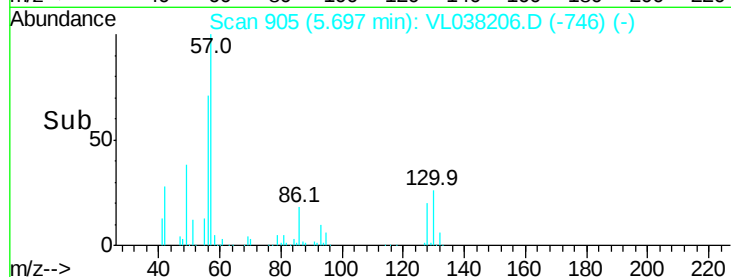
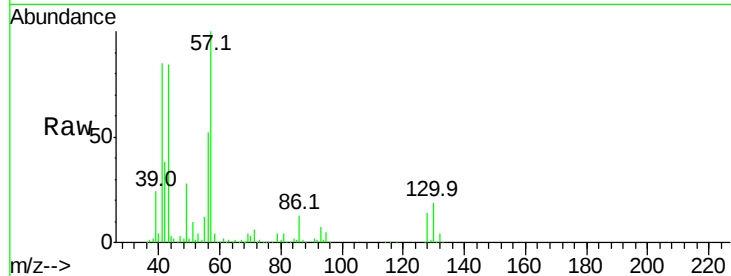


#26
Hexane
Concen: 11.232 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 17 Dec 2021 2:18

Tot Ion:
Ion Ratio
57 100
41 97.
43 102.
56 58.2 43.2 64.8

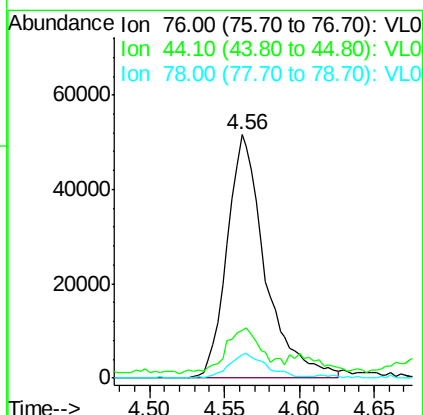
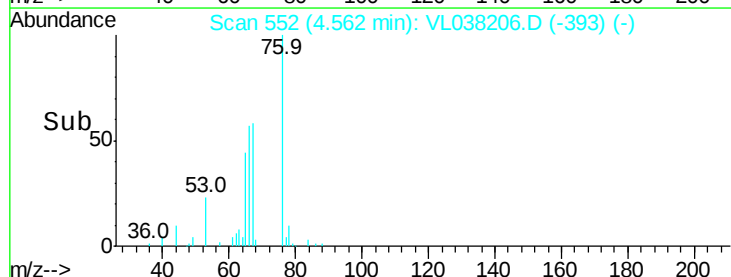
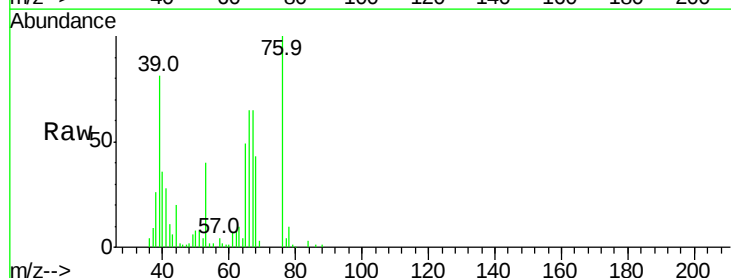
Manual Integrations
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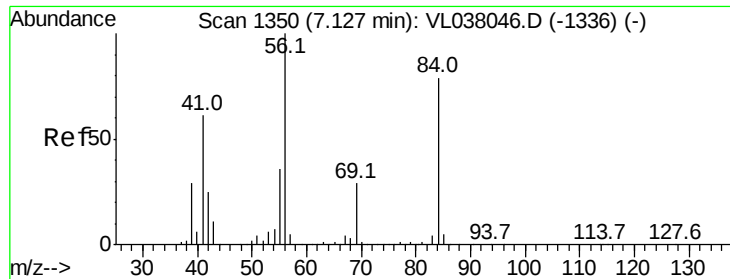
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#27
Carbon Disulfide
Concen: 0.894 ppbv
RT: 4.56 min Scan# 552
Delta R.T. 0.01 min
Lab File: VL038206.D
Acq: 17 Dec 2021 2:18

Tgt Ion: 76 Resp: 91655
Ion Ratio Lower Upper
76 100
44 25.3 14.9 22.3#
78 11.1 7.6 11.4



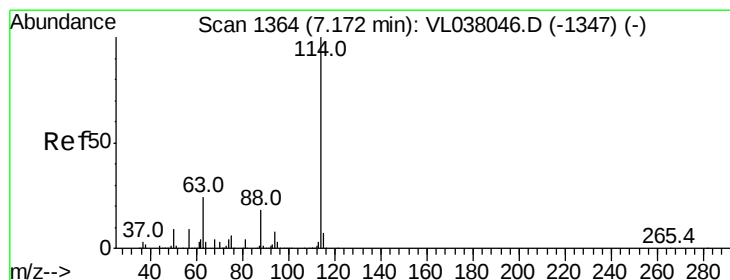
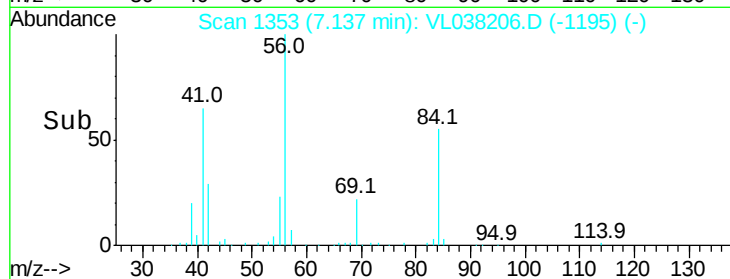
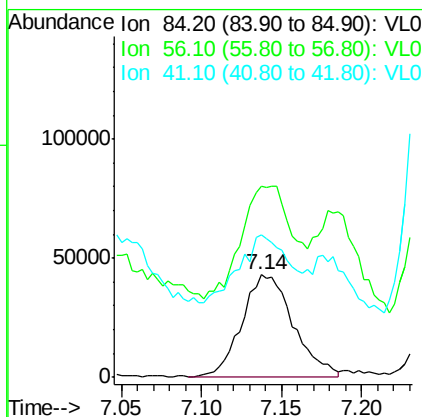
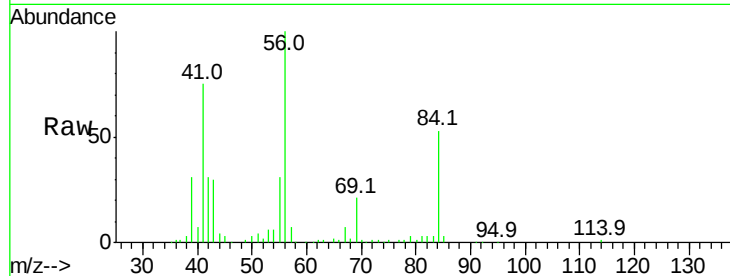


#30
Cvclohexane
Concen: 0.905 ppbv
RT: 7.14
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 17 Dec 2021 2:18

Tot Ion:
Ion Ratio
84 100
56 0.
41 0.

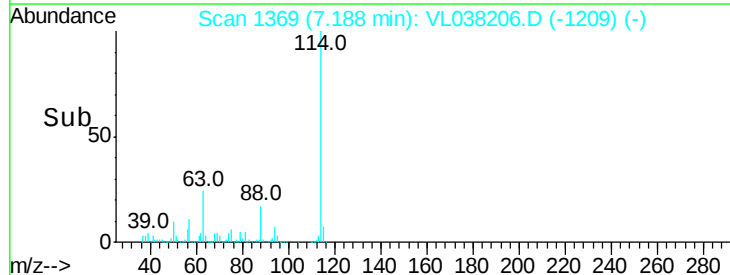
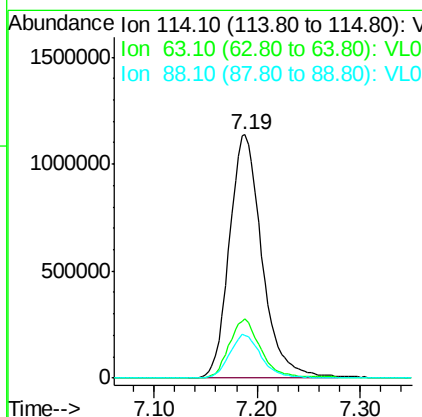
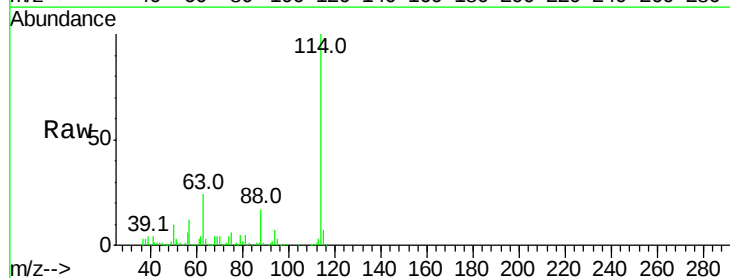
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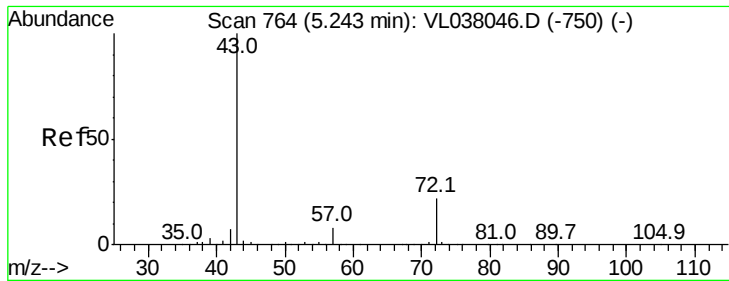
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.02 min
Lab File: VL038206.D
Acq: 17 Dec 2021 2:18

Tgt Ion:114 Resp: 2509354
Ion Ratio Lower Upper
114 100
63 24.1 19.7 29.5
88 17.6 14.4 21.6



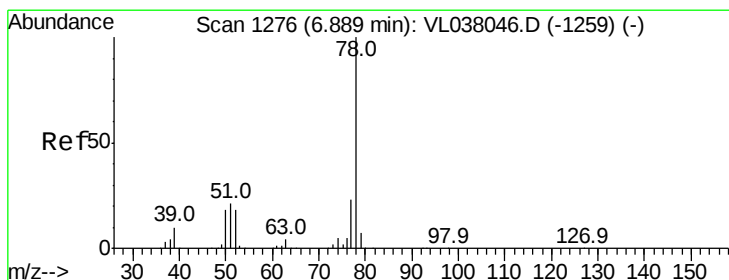
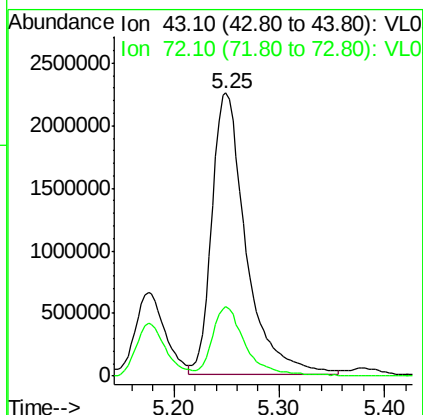
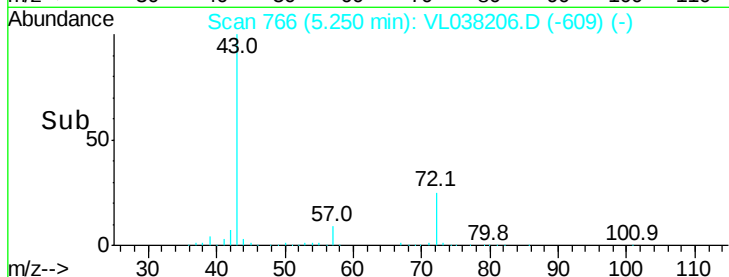
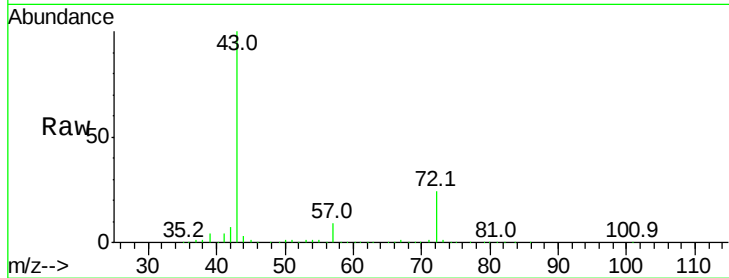


#34
2-Butanone
Concen: 50.237 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 17 Dec 2021 2:18

Tot Ion:
Ion Ratio
43 100
72 24.

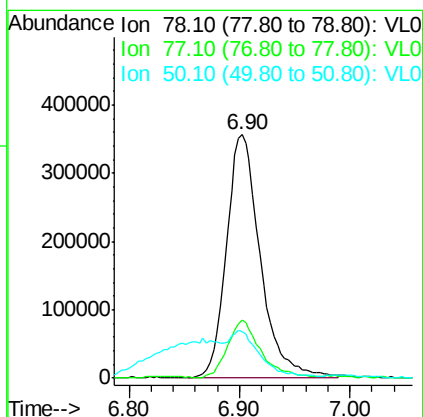
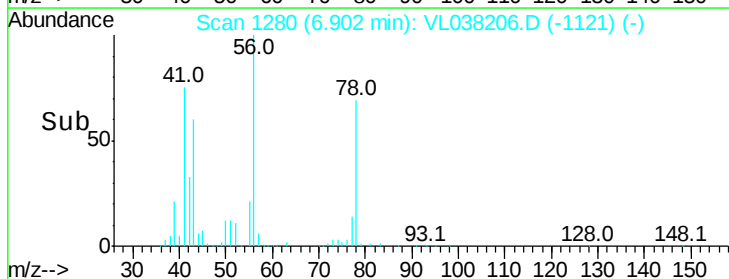
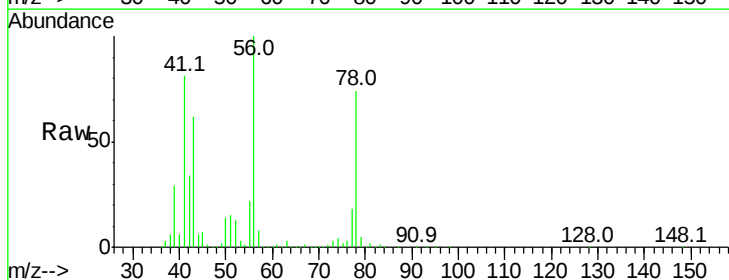
Manual Integrations
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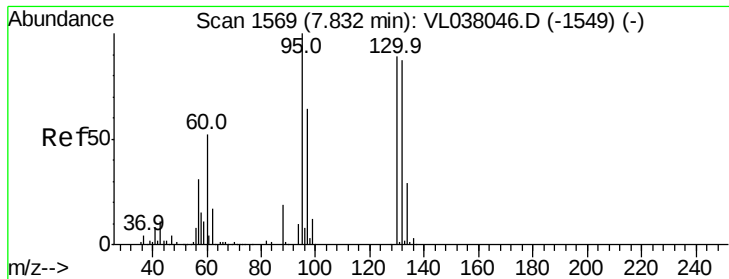
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#36
Benzene
Concen: 3.016 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. 0.01 min
Lab File: VL038206.D
Acq: 17 Dec 2021 2:18

Tgt Ion: 78 Resp: 754864
Ion Ratio Lower Upper
78 100
77 23.5 18.2 27.4
50 18.4 14.7 22.1



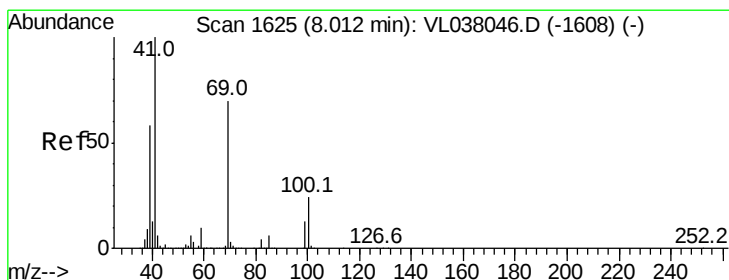
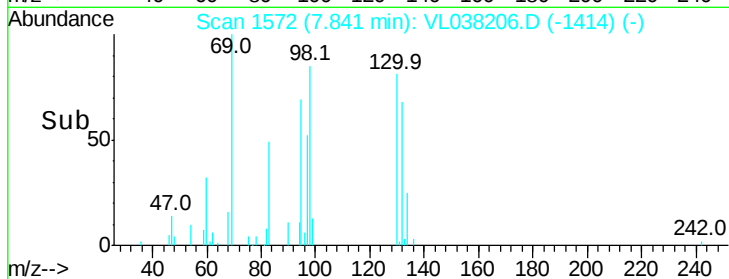
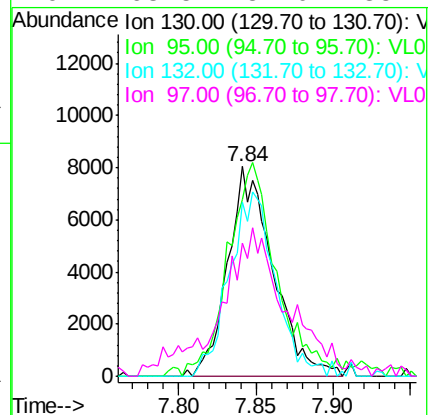
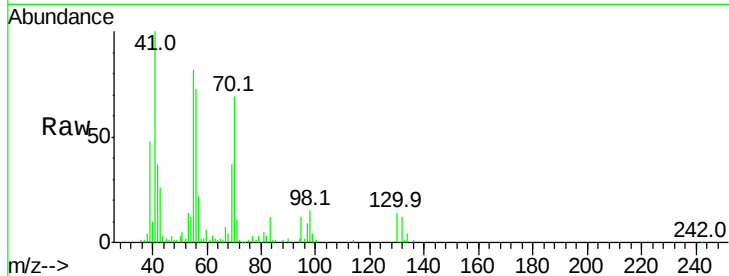


#38
 Trichloroethene
 Concen: 0.173 ppbv m
 RT: 7.84
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 17 Dec 2021 2:18

Tot Ion: 1
 Ion Ratio
 130 100
 95 84.
 132 82.
 97 63.5 57.0 85.4

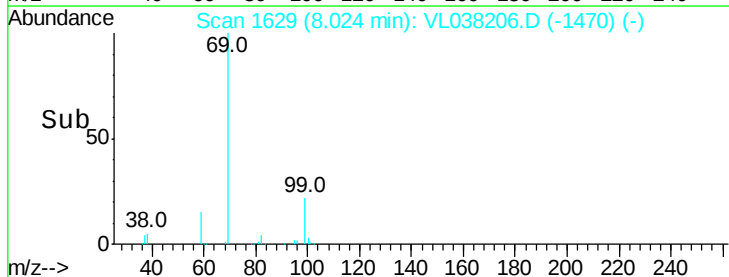
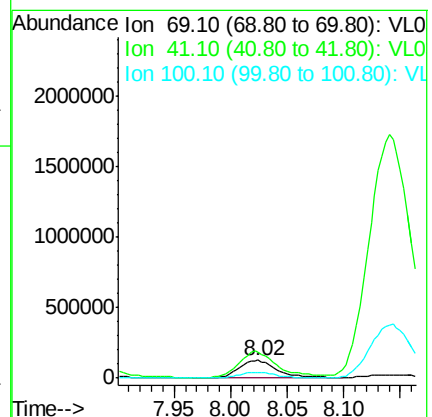
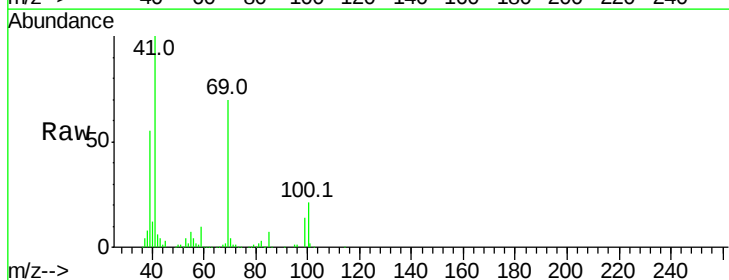
Manual Integrations
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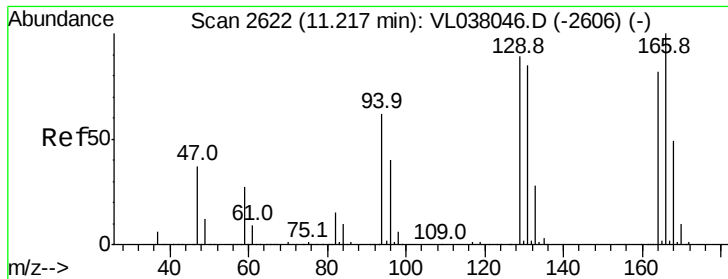
Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021



#43
 Methyl Methacrylate
 Concen: 3.515 ppbv
 RT: 8.02 min Scan# 1629
 Delta R.T. 0.01 min
 Lab File: VL038206.D
 Acq: 17 Dec 2021 2:18

Tgt Ion: 69 Resp: 300998
 Ion Ratio Lower Upper
 69 100
 41 146.6 116.7 175.1
 100 33.0 27.3 40.9





#52

Tetrachloroethene

Concen: 0.289 ppbv m

RT: 11.28

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 17 Dec 2021 2:18

Tot Ion:1

Ion Ratio

164 100

166 86.

129 62.

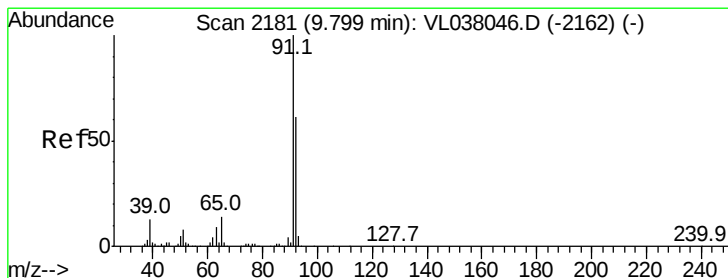
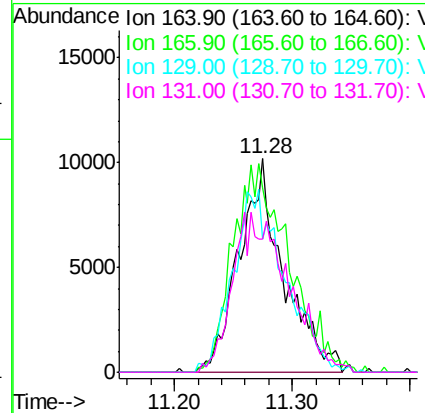
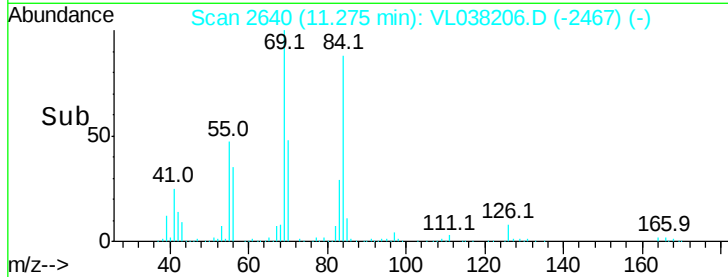
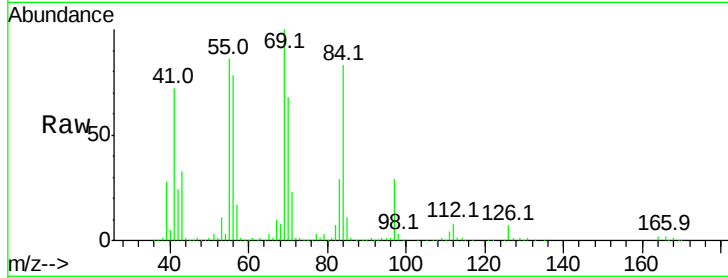
131 62.5 82.8 124.2#

Manual Integrations

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Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#53

Toluene

Concen: 4.162 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.02 min

Lab File: VL038206.D

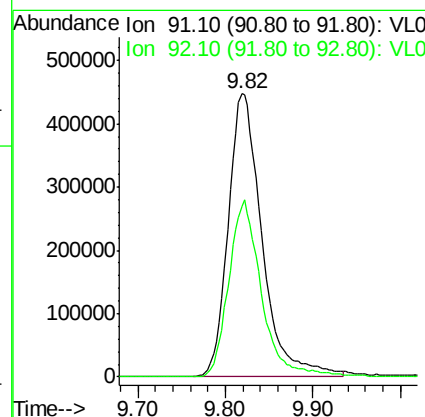
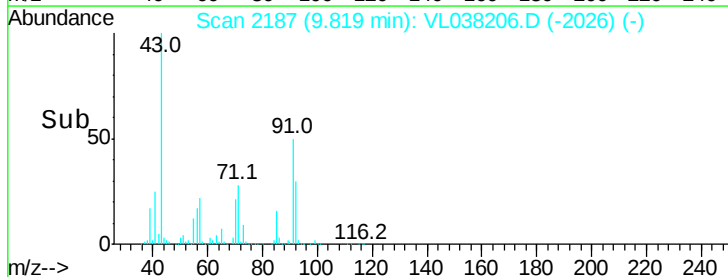
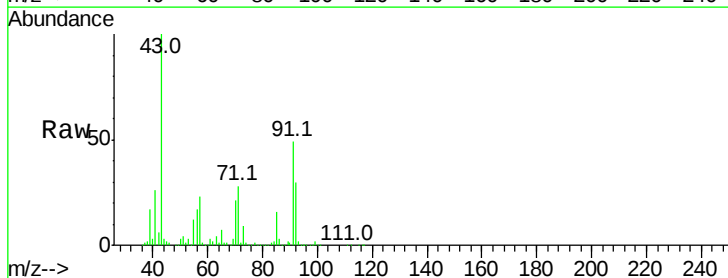
Acq: 17 Dec 2021 2:18

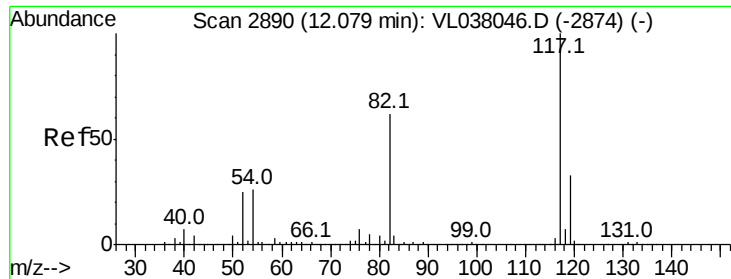
Tgt Ion: 91 Resp: 1198786

Ion Ratio Lower Upper

91 100

92 60.9 49.7 74.5



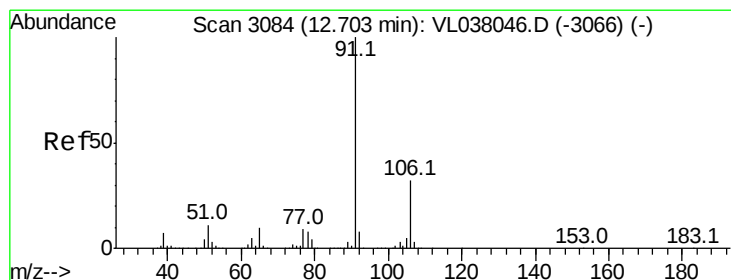
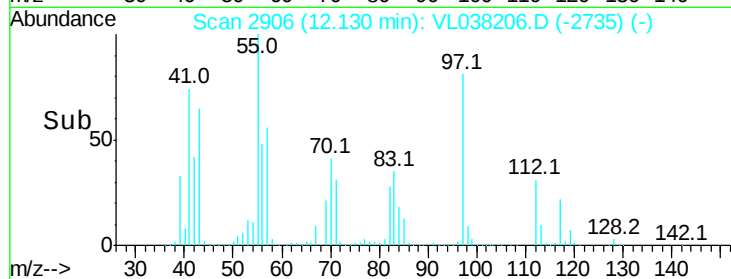
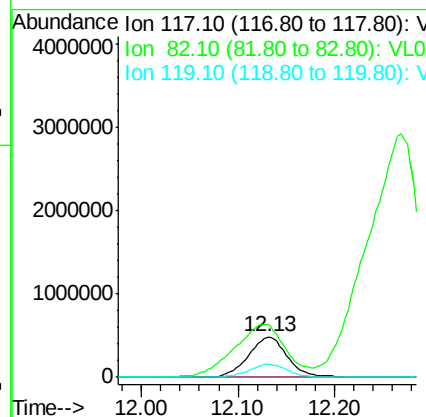
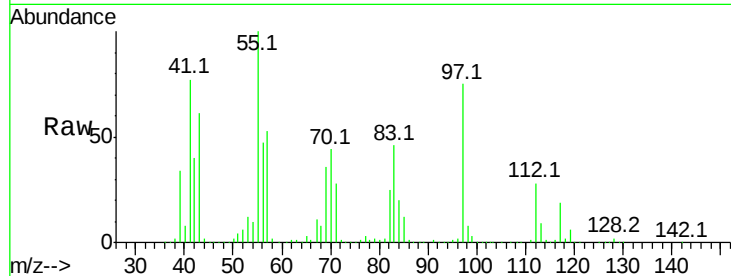


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 17 Dec 2021 2:18

Tot Ion: 1
Ion Ratio
117 100
82 172.
119 33.

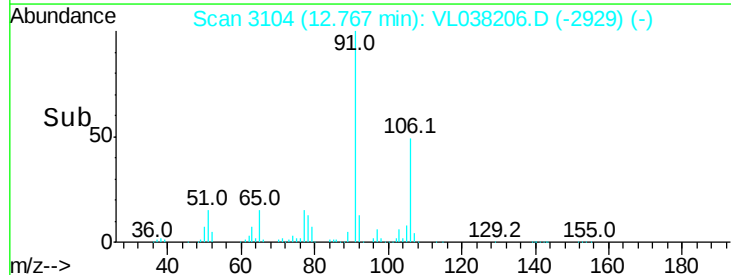
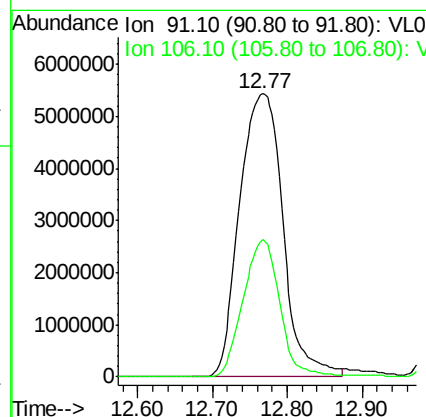
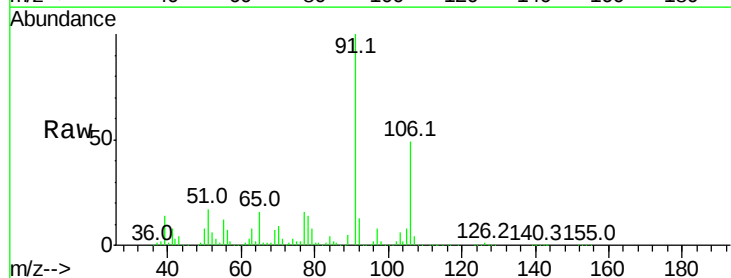
Manual Integrations
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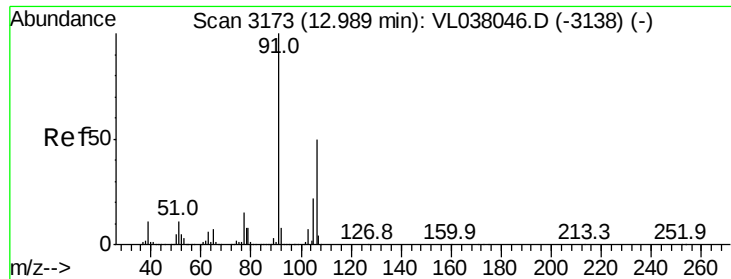
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#58
Ethyl Benzene
Concen: 97.547 ppbv
RT: 12.77 min Scan# 3104
Delta R.T. 0.06 min
Lab File: VL038206.D
Acq: 17 Dec 2021 2:18

Tgt Ion: 91 Resp:21918530
Ion Ratio Lower Upper
91 100
106 48.6 25.8 38.6#



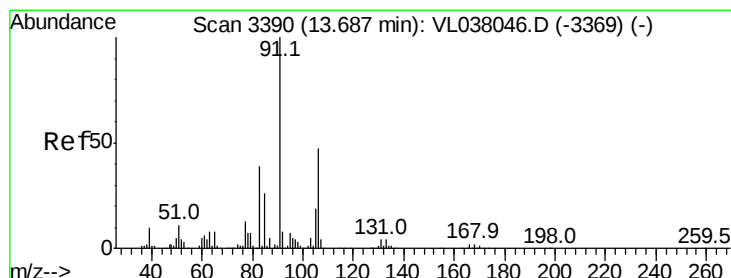
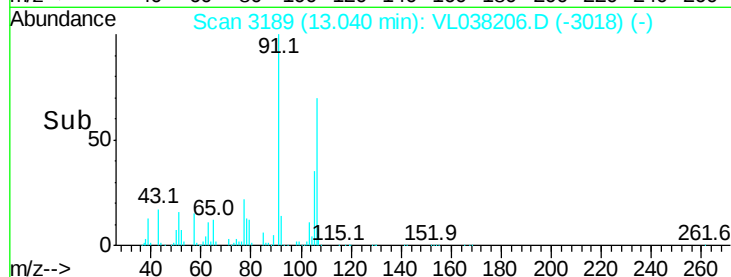
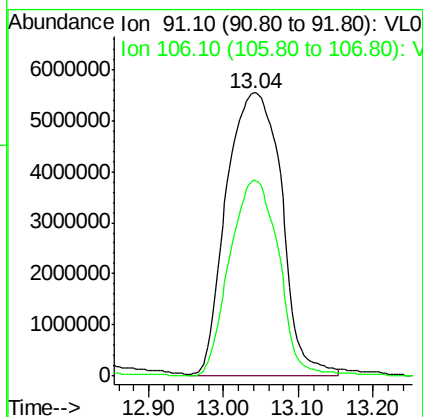
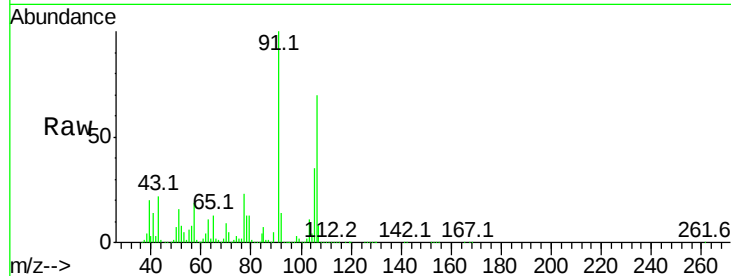


#59
m/p-Xylene
Concen: 149.522 ppbv
RT: 13.04
Delta R.T. MSVOA_1
Lab File: ClientSampled :
Acq: 17 Dec 2021 2:18

Tot Ion:
Ion Ratio
91 100
106 62.

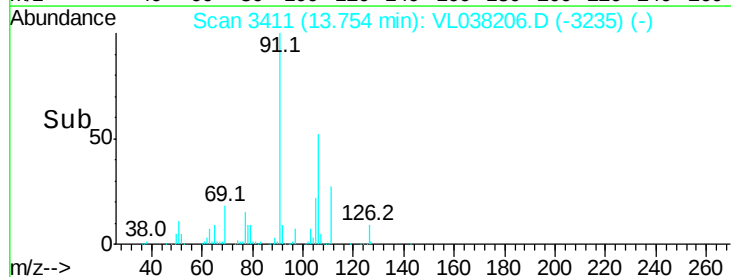
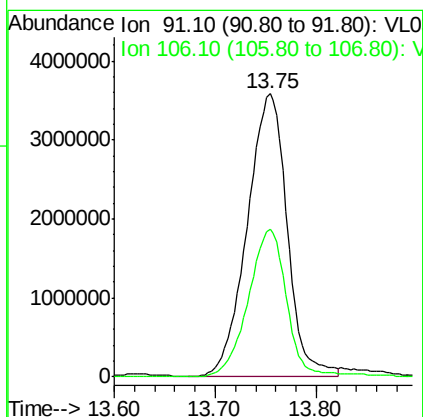
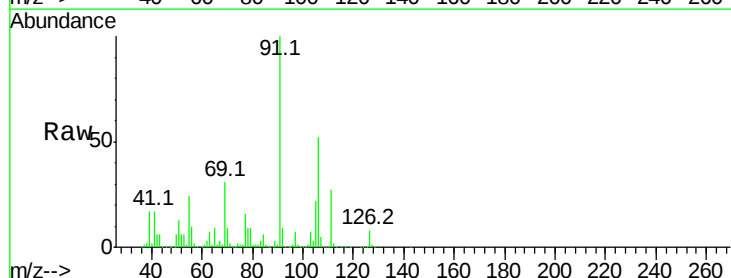
Manual Integrations
APPROVED

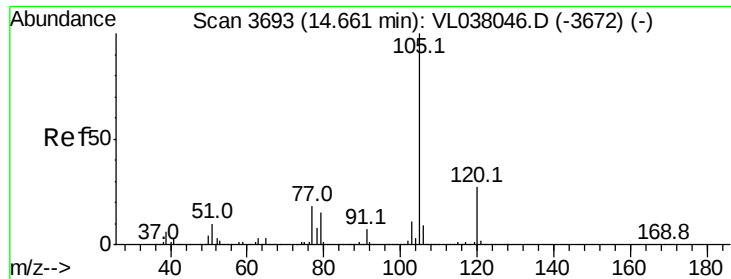
Reviewed By :Amit Patel 12/20/2021
Supervised By :Mahesh Dadoda 12/20/2021



#60
o-Xylene
Concen: 56.081 ppbv
RT: 13.75 min Scan# 3411
Delta R.T. 0.07 min
Lab File: VL038206.D
Acq: 17 Dec 2021 2:18

Tgt Ion: 91 Resp: 9840395
Ion Ratio Lower Upper
91 100
106 50.8 24.2 72.6





#62

Isopropylbenzene

Concen: 0.792 ppbv

RT: 14.70

Delta R.T. MSVOA_L

Lab File:

Acq: 17 Dec 2021 2:18

ClientSampleId :

SG-4

Tot Ion:1

Ion Rati

105 100

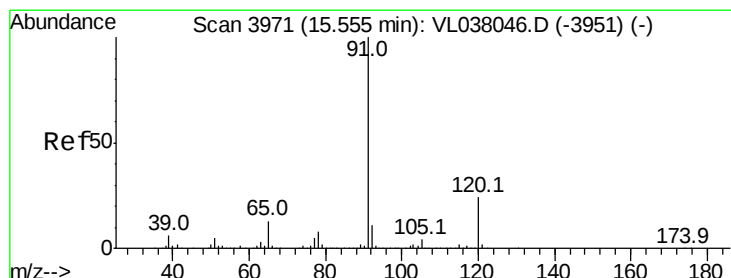
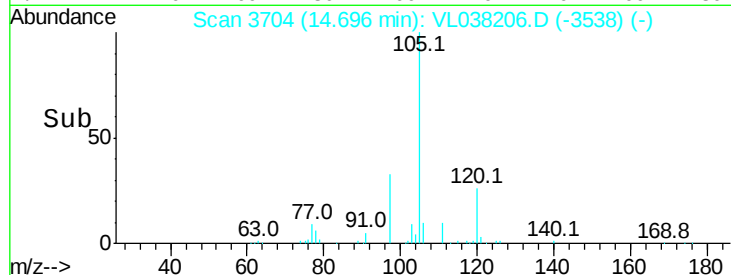
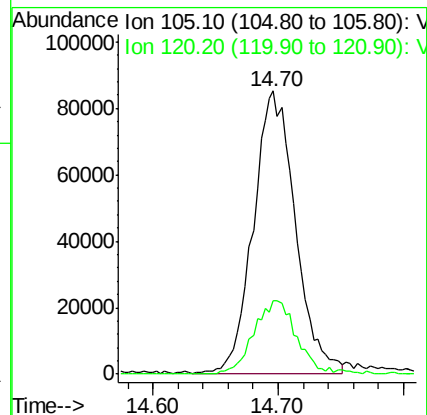
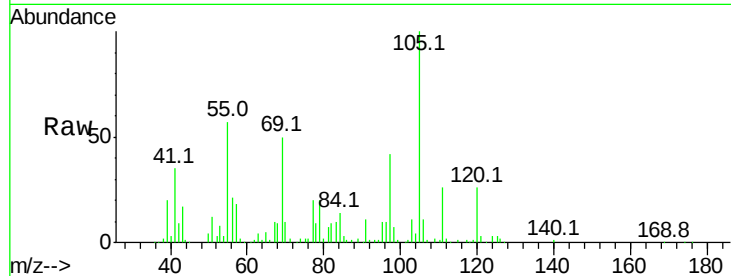
120 27.

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#64

n-propylbenzene

Concen: 0.201 ppbv m

RT: 15.58 min Scan# 3980

Delta R.T. 0.03 min

Lab File: VL038206.D

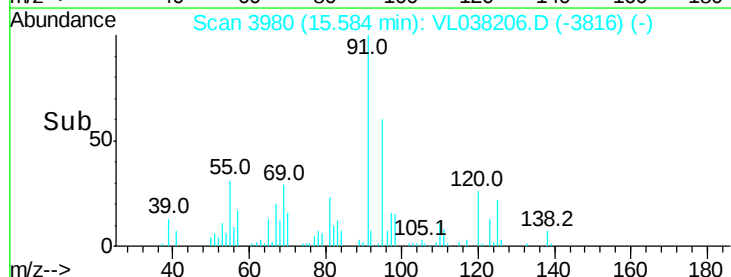
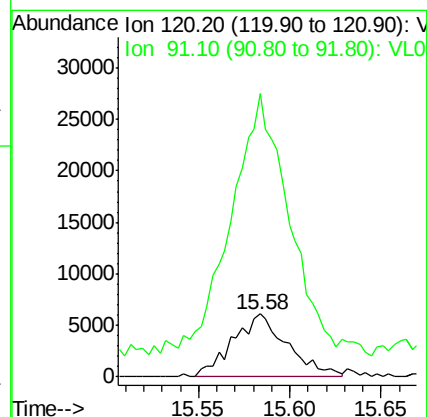
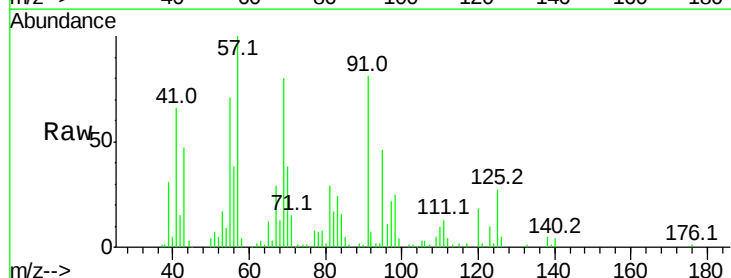
Acq: 17 Dec 2021 2:18

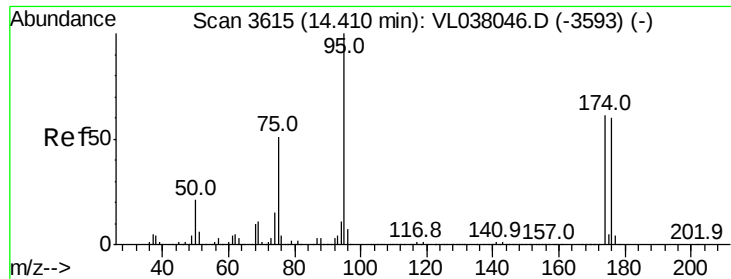
Tgt Ion:120 Resp: 12756

Ion Ratio Lower Upper

120 100

91 0.0 371.7 557.5#



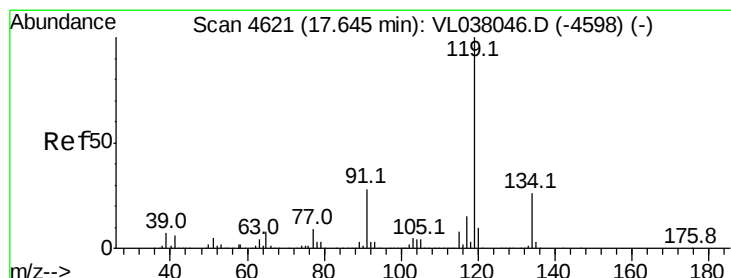
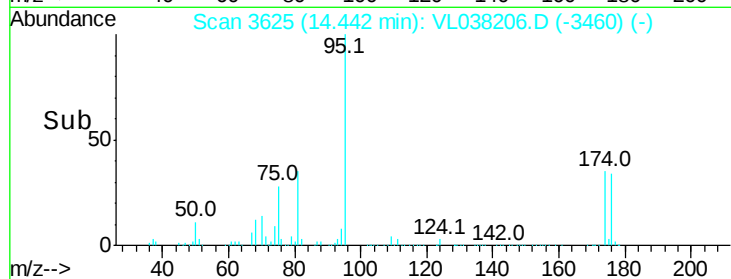
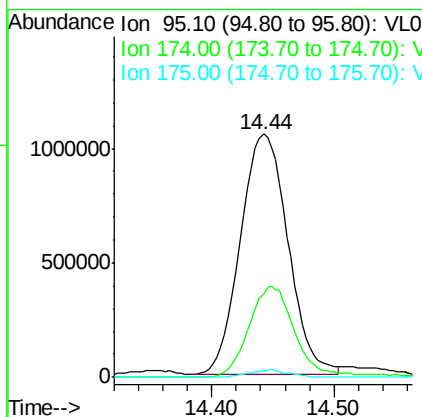
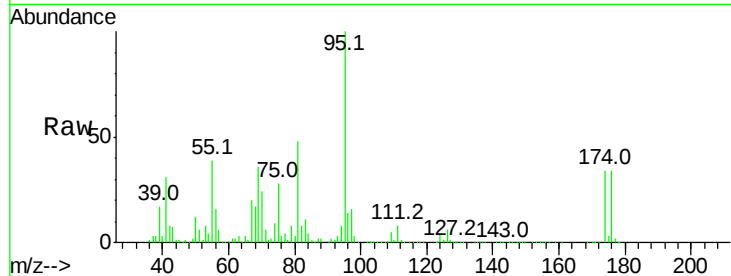


#68
 1-Bromo-4-Fluorobenzene
 Concen: 28.847 ppbv
 RT: 14.44 min
 Delta R.T.: 0.02 min
 Lab File: VL038206.D
 Acq: 17 Dec 2021 2:18

Tot Ion:
 Ion Ratio
 95 100
 174 37.1
 175 2.1

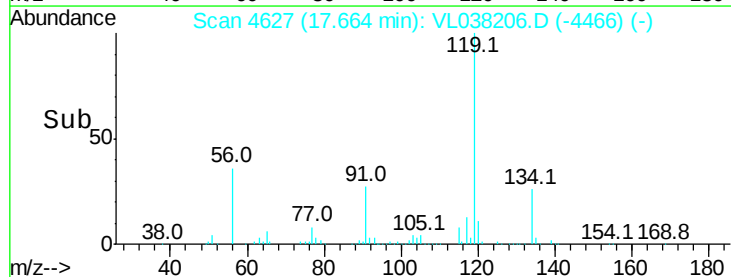
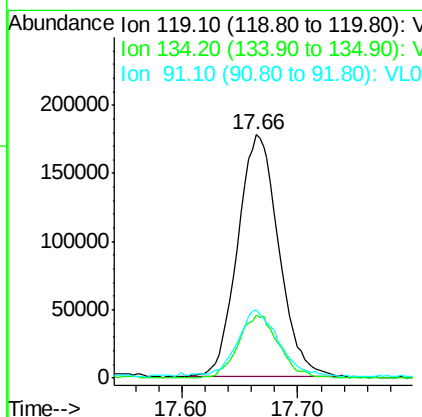
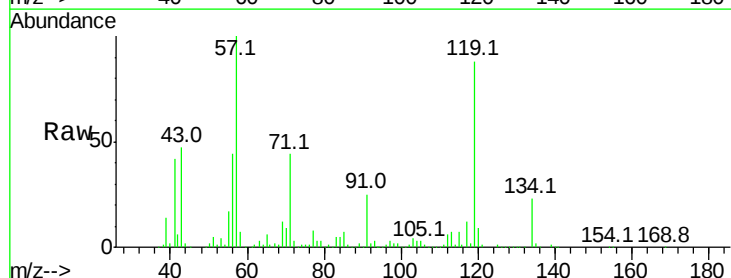
Manual Integrations
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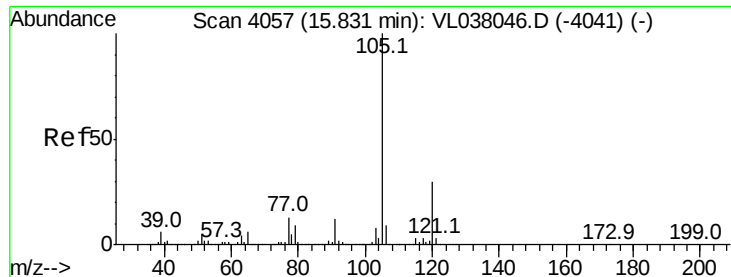
Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021



#69
 p-Isopropyltoluene
 Concen: 1.811 ppbv
 RT: 17.66 min Scan# 4627
 Delta R.T.: 0.02 min
 Lab File: VL038206.D
 Acq: 17 Dec 2021 2:18

Tgt Ion:119 Resp: 433120
 Ion Ratio Lower Upper
 119 100
 134 26.1 20.6 30.8
 91 28.7 22.2 33.4





#72

4-Ethyltoluene

Concen: 0.302 ppbv m

RT: 15.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 17 Dec 2021 2:18

Tot Ion:1

Ion Ratio

105 100

120 0.

91 15.

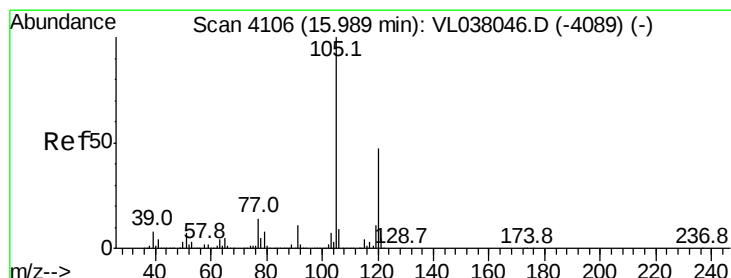
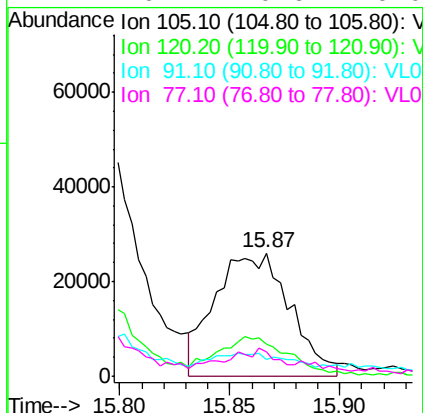
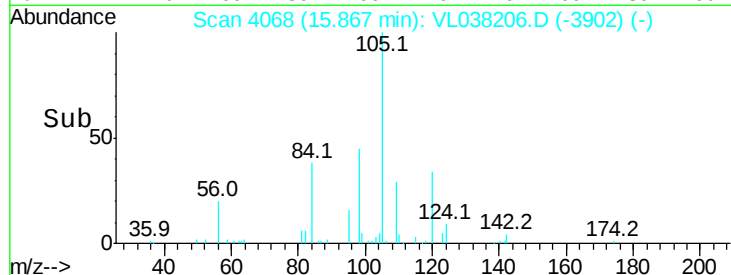
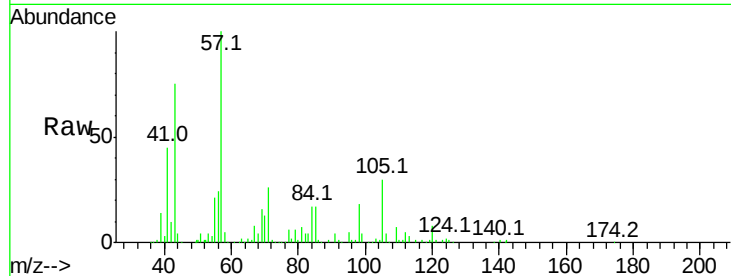
77 20.2 10.6 16.0#

Manual Integrations

APPROVED

Reviewed By :Amit Patel 12/20/2021

Supervised By :Mahesh Dadoda 12/20/2021



#73

1,3,5-Trimethylbenzene

Concen: 0.250 ppbv

RT: 16.01 min Scan# 4113

Delta R.T. 0.02 min

Lab File: VL038206.D

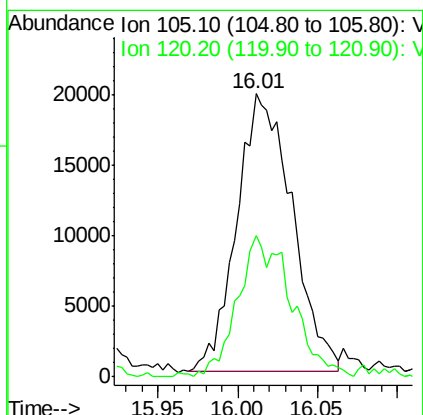
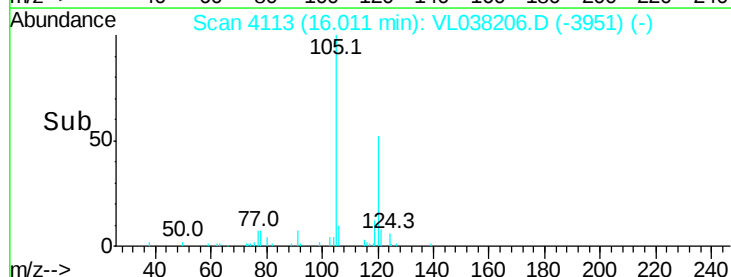
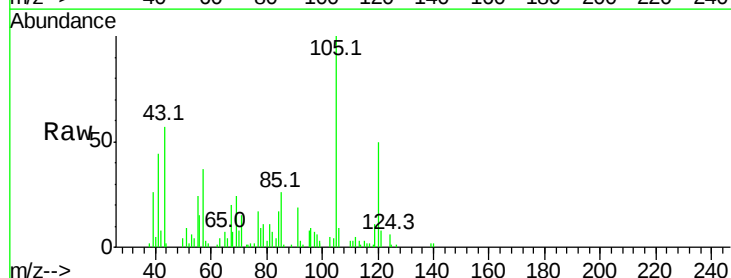
Acq: 17 Dec 2021 2:18

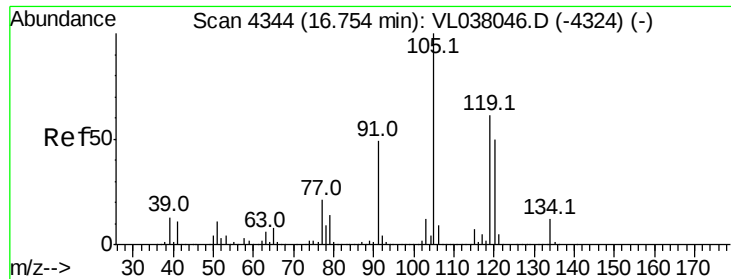
Tgt Ion:105 Resp: 46419

Ion Ratio Lower Upper

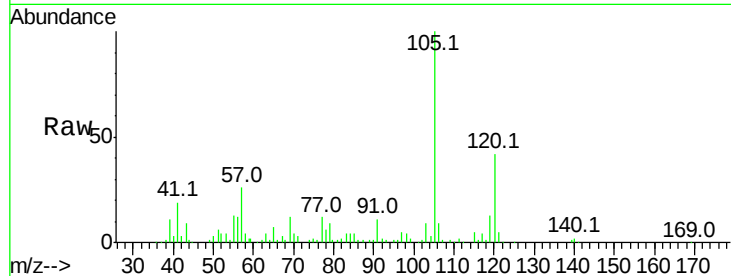
105 100

120 50.2 37.8 56.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.879 ppbv
 RT: 16.78
 Instrument : MSVOA_1
 Delta R.T :
 Lab File: ClientSampleId :
 Acq: 17 Dec 2021 2.18



Tot Ion:1
 Ion Rati
 105 100
 120 42.
 91 9.
 77 11.6 16.6 25.0#

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 12/20/2021
 Supervised By :Mahesh Dadoda 12/20/2021

