

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038120.D
 Acq On : 24 Nov 2021 4:39
 Operator : SY/AP
 Sample : M4805-01 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 SG-PURE-BARRE

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/29/2021
 Supervised By :Mahesh Dadoda 11/29/2021

Quant Time: Nov 26 05:40:59 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	5.65	49	891829	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2458106	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2138759	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1779483	11.53	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	115.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	22572m	0.153	ppbv
4) Chloromethane	3.13	50	19562m	0.307	ppbv
9) Propene	3.02	41	66190m	0.960	ppbv
10) Heptane	8.11	43	29548	0.173	ppbv 95
11) Trichlorofluoromethane	3.94	101	244267	1.743	ppbv 99
13) Ethanol	3.60	45	5520426	828.199	ppbv 90
15) Acetone	3.84	43	3875271	50.118	ppbv 99
17) tert-Butyl alcohol	4.29	59	36685m	0.391	ppbv
19) Isopropyl Alcohol	3.96	45	4016978	71.900	ppbv 100
20) Methylene Chloride	4.33	84	276525	6.385	ppbv 99
25) Ethyl Acetate	5.66	43	309730	1.205	ppbv 98
26) Hexane	5.67	57	164043	1.324	ppbv 90
27) Carbon Disulfide	4.54	76	19789m	0.178	ppbv
29) Chloroform	5.74	83	32773	0.180	ppbv 98
34) 2-Butanone	5.23	43	94197	0.950	ppbv 100
35) Carbon Tetrachloride	7.00	117	5931m	0.034	ppbv
36) Benzene	6.87	78	24945	0.102	ppbv # 89
52) Tetrachloroethene	11.19	164	6784m	0.075	ppbv
53) Toluene	9.78	91	92181	0.327	ppbv 94
58) Ethyl Benzene	12.68	91	38856m	0.110	ppbv
59) m/p-Xylene	12.93	91	90312m	0.303	ppbv
60) o-Xylene	13.66	91	42746	0.155	ppbv 95
61) Styrene	13.50	104	132477m	0.895	ppbv
62) Isopropylbenzene	14.64	105	443715	1.132	ppbv 97
74) 1,2,4-Trimethylbenzene	16.73	105	30956m	0.103	ppbv

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

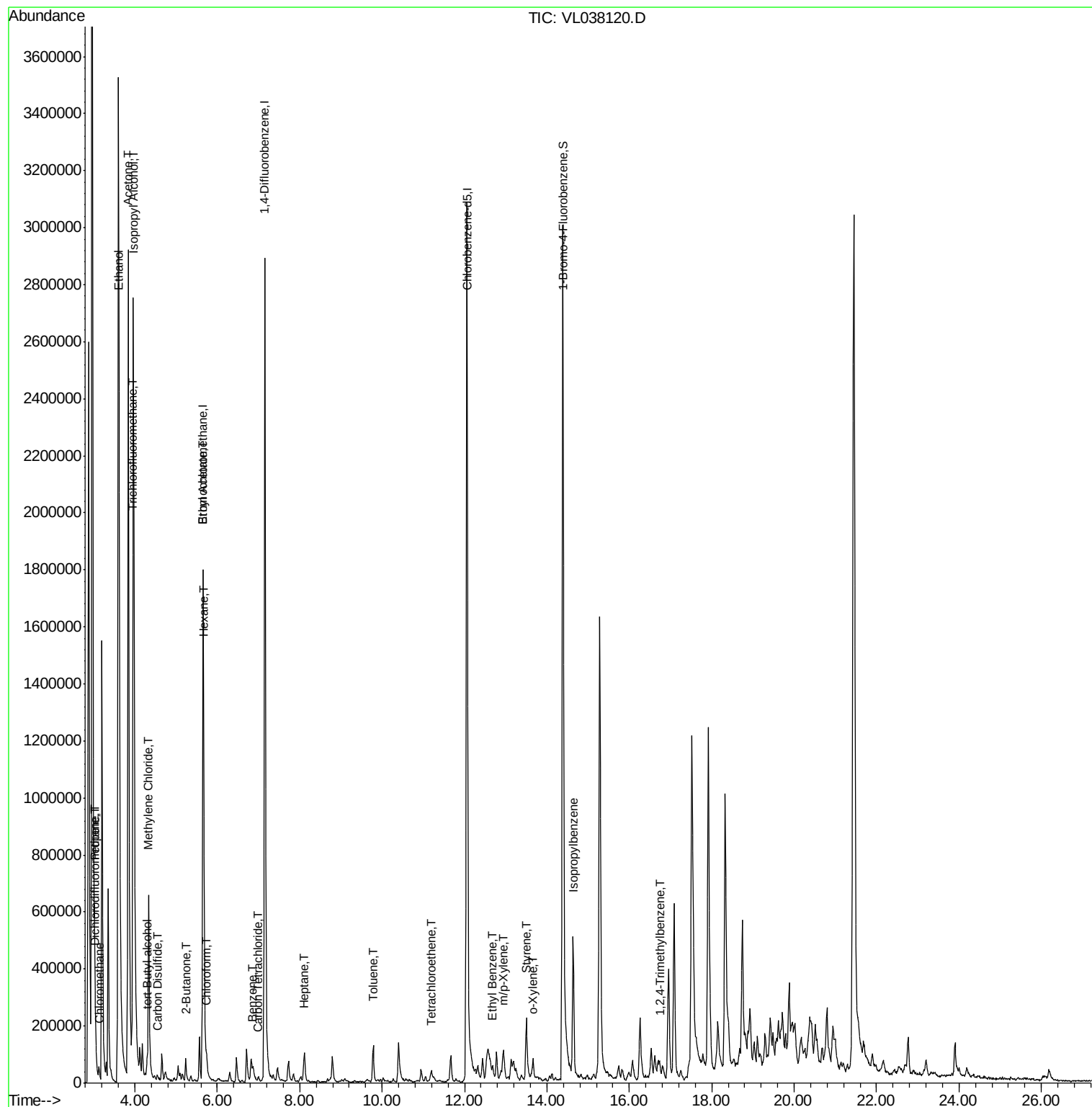
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
Data File : VL038120.D
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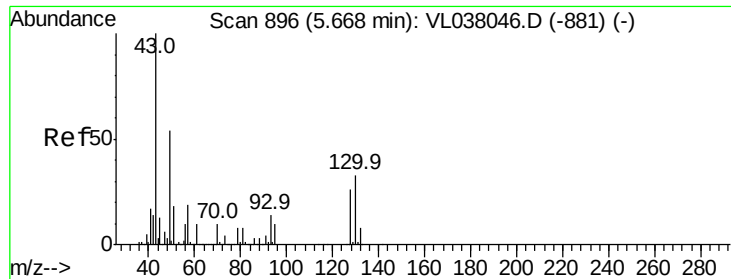
Instrument :
MSVOA_L
ClientSampleId :
SG-PURE-BARRE

Manual Integrations
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Quant Time: Nov 26 05:40:59 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
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Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 24 Nov 2021 4:39

Tot Ion:

Ion Ratio

49 100

128 48.

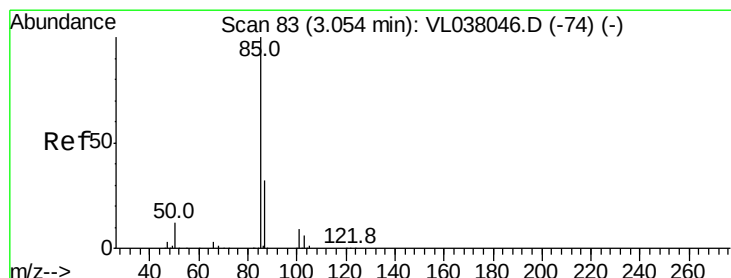
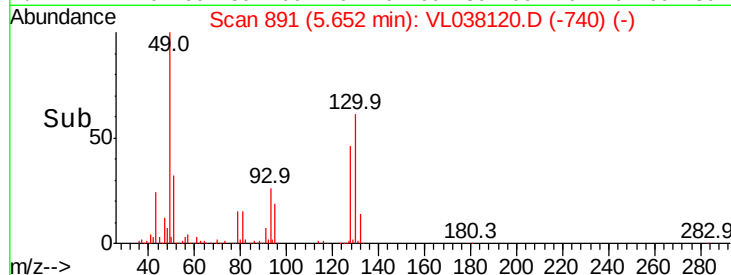
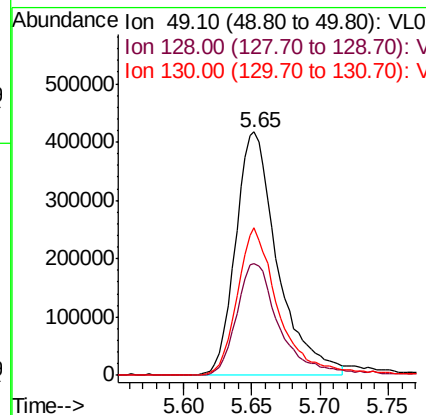
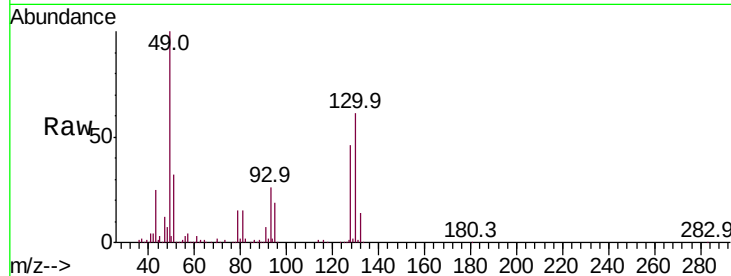
130 61.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#2

Dichlorodifluoromethane

Concen: 0.153 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL038120.D

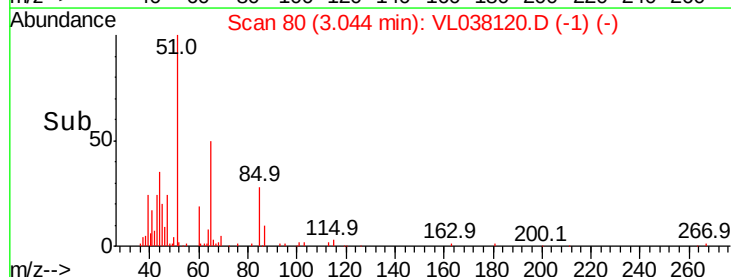
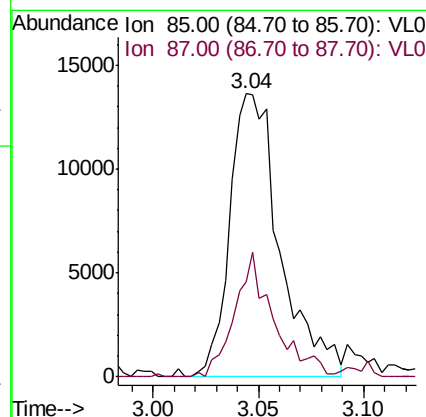
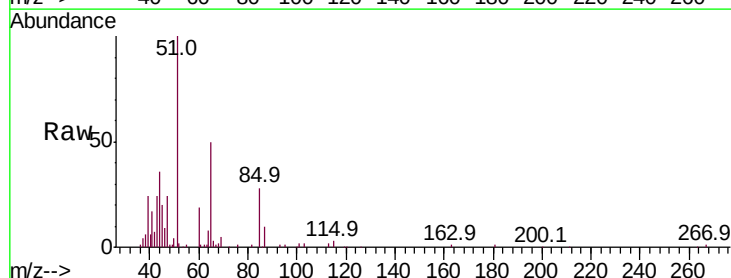
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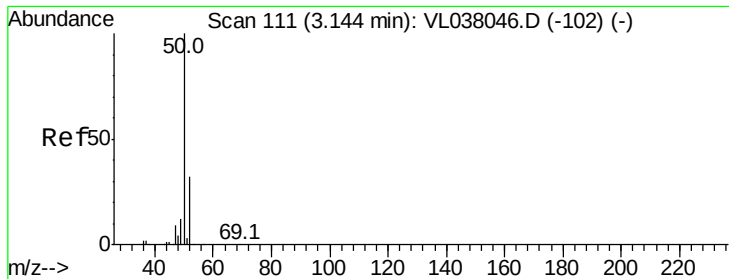
Tgt Ion: 85 Resp: 22572

Ion Ratio Lower Upper

85 100

87 33.4 25.8 38.6





#4

Chloromethane

Concen: 0.307 ppbv m

RT: 3.13 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Nov 2021 4:39 SG-PURE-BARRE

Tot Ion:

Ion Ratio

50 100

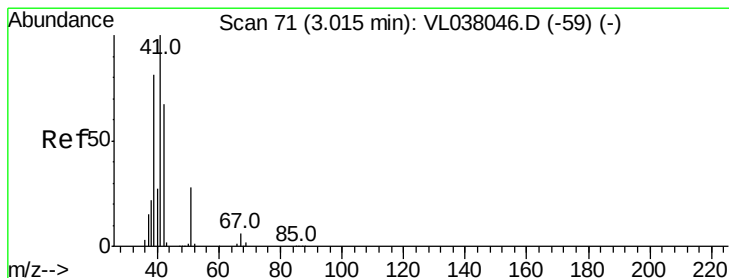
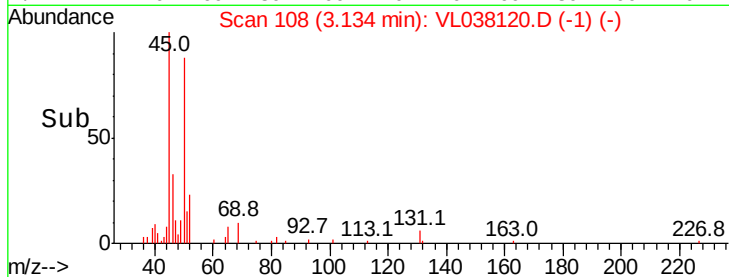
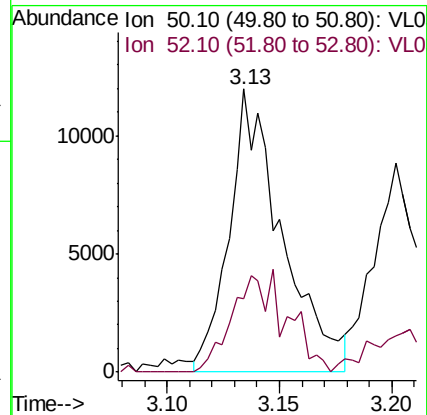
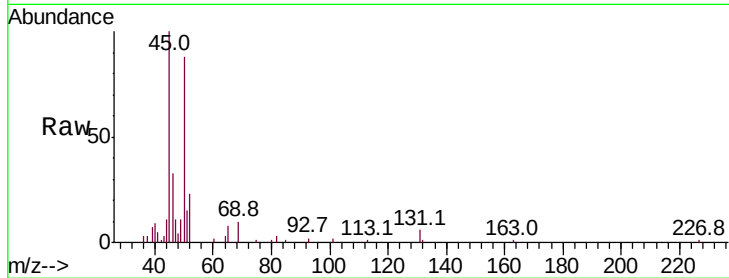
52 25.

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#9

Propene

Concen: 0.960 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL038120.D

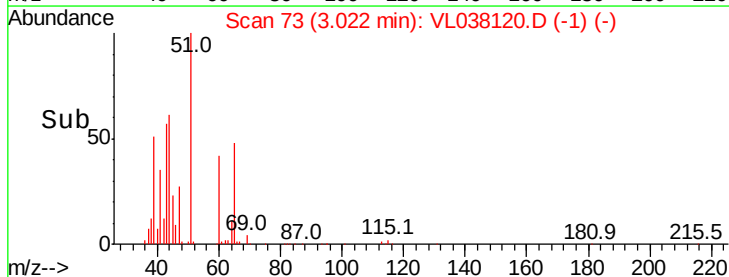
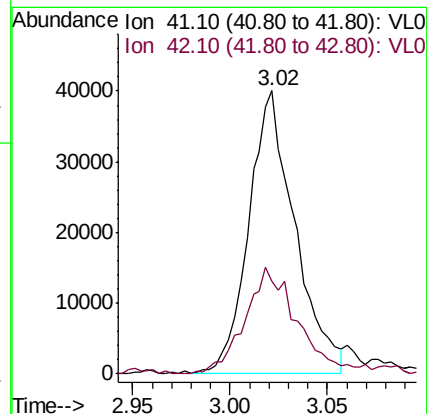
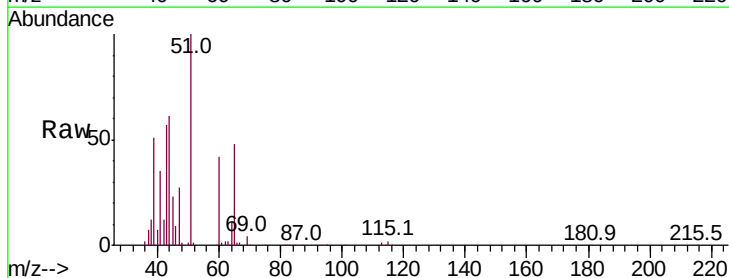
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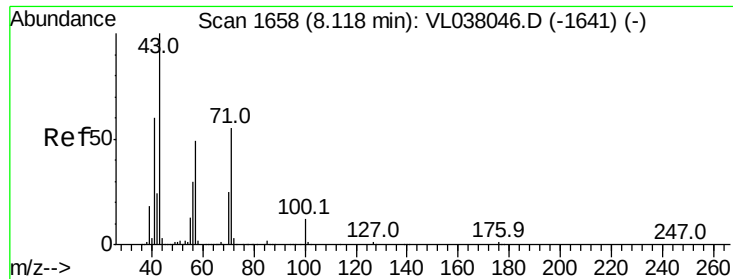
Tgt Ion: 41 Resp: 66190

Ion Ratio Lower Upper

41 100

42 561.7 53.8 80.8#



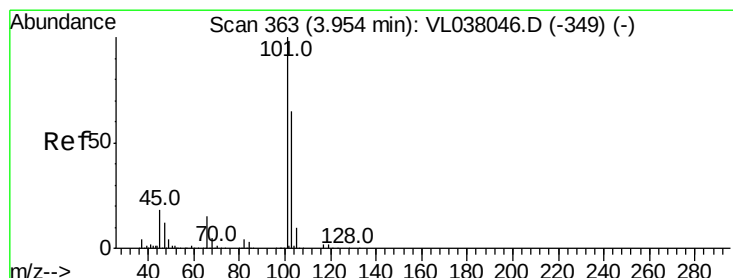
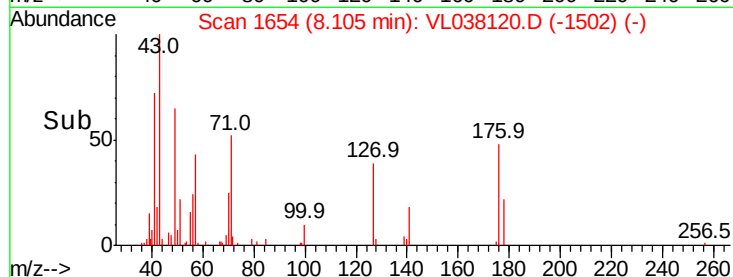
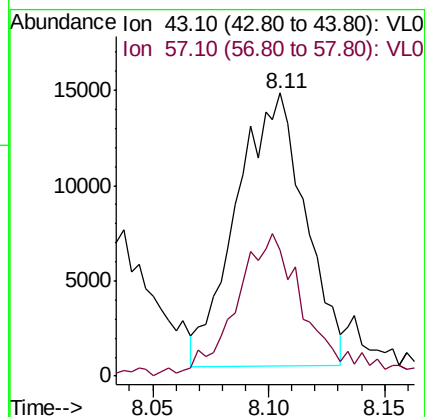
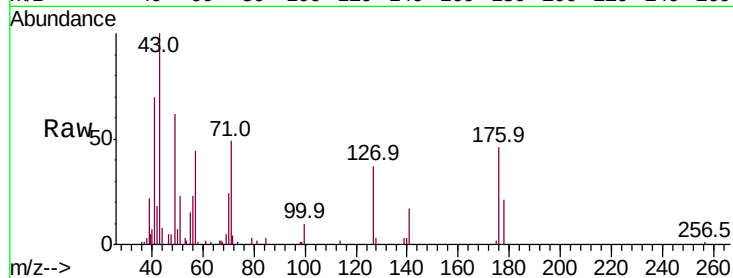


#10
 Heptane
 Concen: 0.173 ppbv
 RT: 8.11
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SG-PURE-BARRE
 Acq: 24 Nov 2021 4:39

Tot Ion:
 Ion Ratio
 43 100
 57 54.

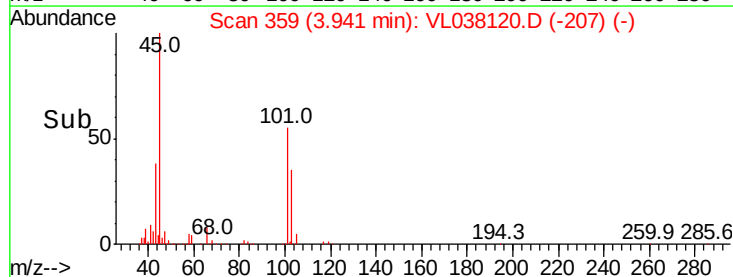
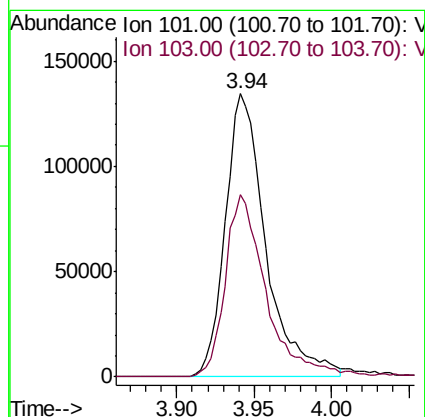
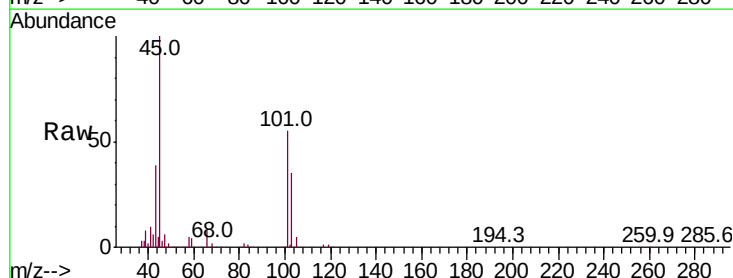
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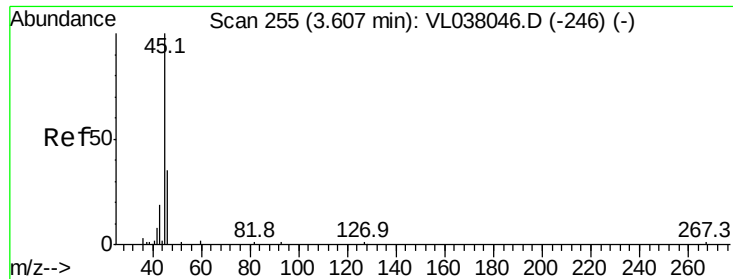
Reviewed By :Semsettin Yesilyurt 11/29/2021
 Supervised By :Mahesh Dadoda 11/29/2021



#11
 Trichlorofluoromethane
 Concen: 1.743 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL038120.D
 Acq: 24 Nov 2021 4:39

Tgt Ion:101 Resp: 244267
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.8 77.6



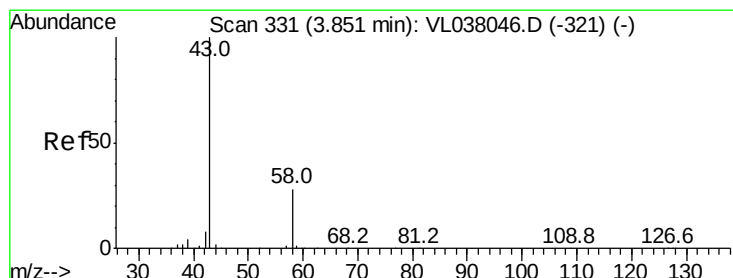
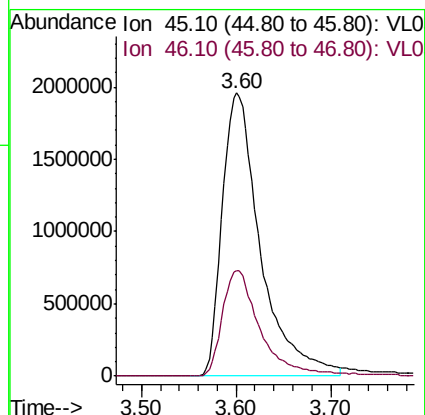
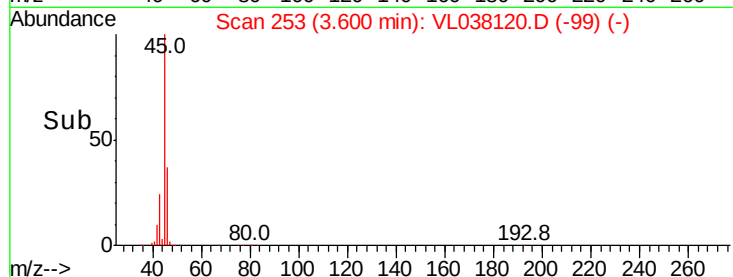
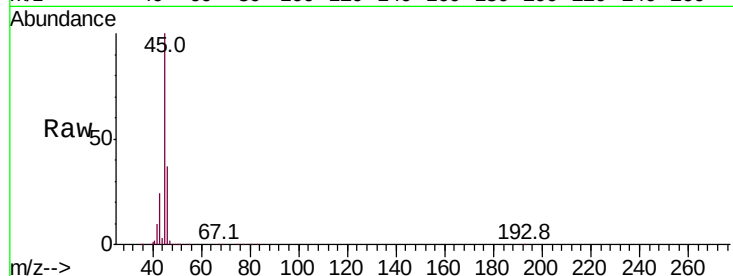


#13
Ethanol
Concen: 828.199 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Nov 2021 4:39 SG-PURE-BARRE

Tot Ion:
Ion Ratio
45 100
46 37.

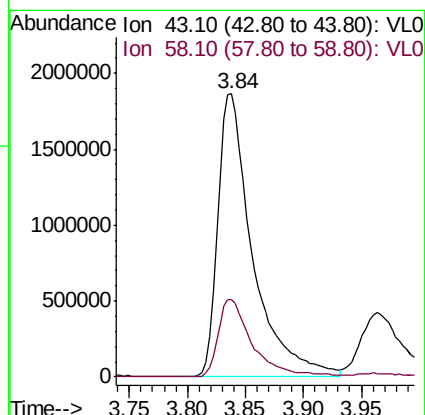
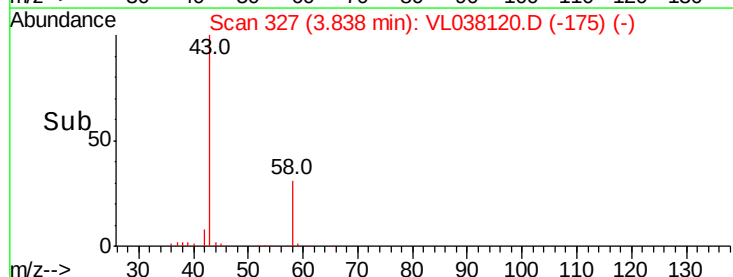
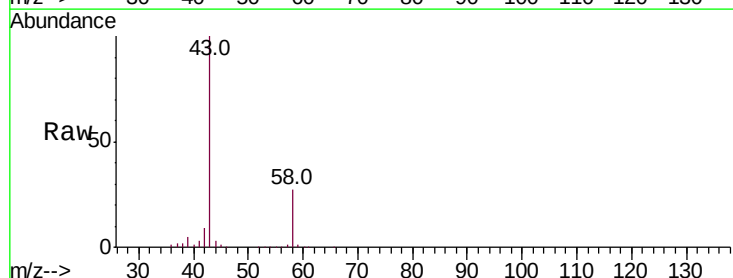
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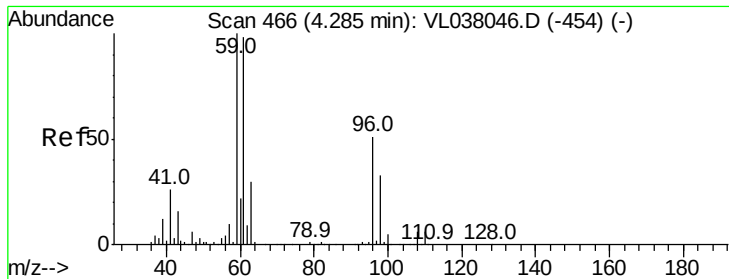
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#15
Acetone
Concen: 50.118 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL038120.D
Acq: 24 Nov 2021 4:39

Tgt Ion: 43 Resp: 3875271
Ion Ratio Lower Upper
43 100
58 27.2 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.391 ppbv m

RT: 4.29 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Nov 2021 4:39 SG-PURE-BARRE

Tot Ion:

Ion Ratio

59 100

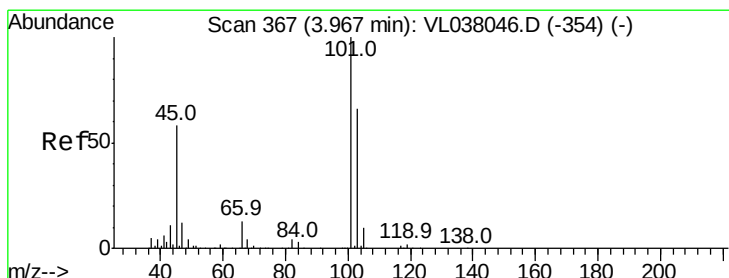
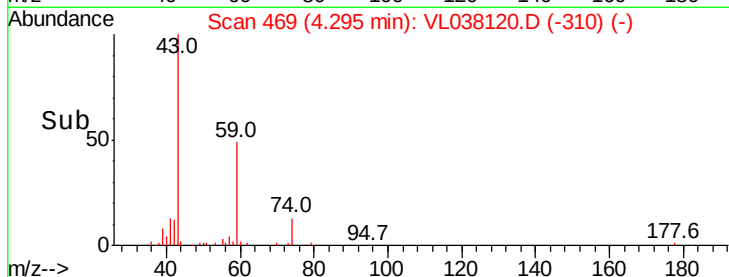
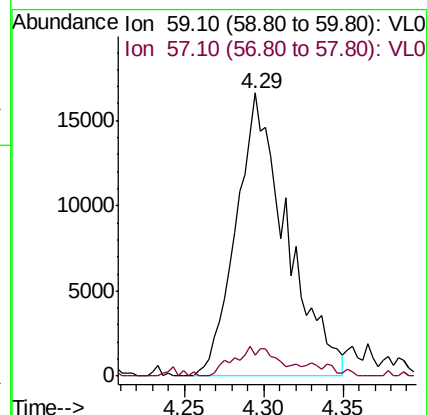
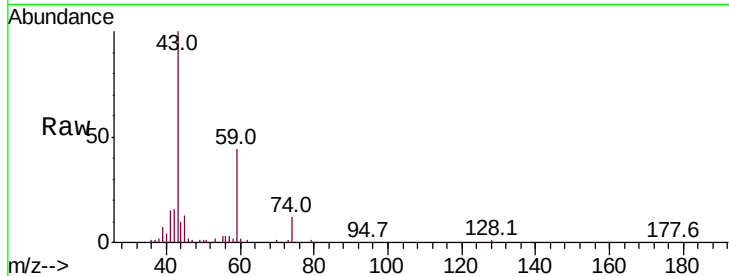
57 9.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#19

Isopropyl Alcohol

Concen: 71.900 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.00 min

Lab File: VL038120.D

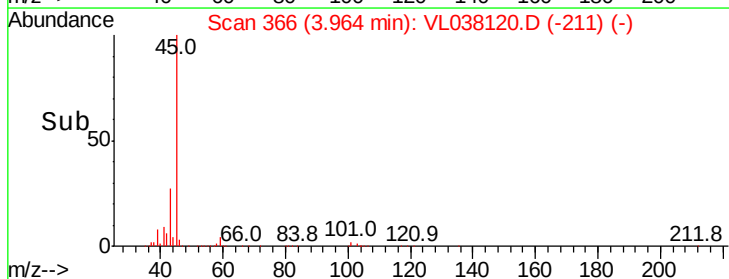
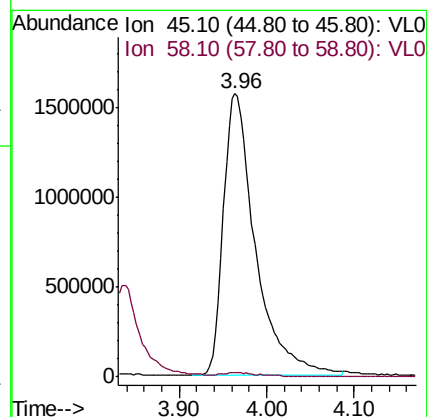
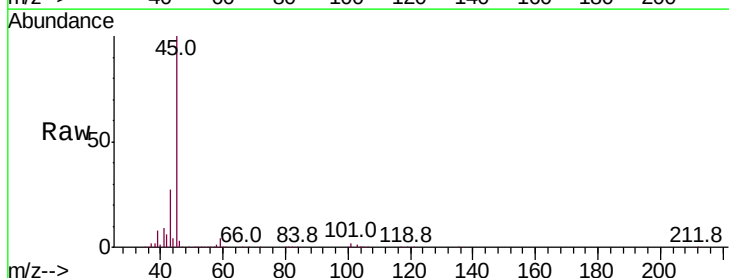
Acq: 24 Nov 2021 4:39

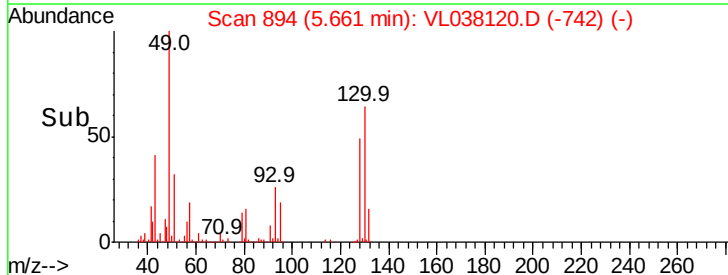
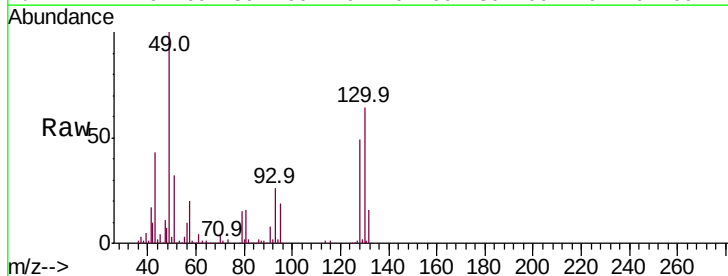
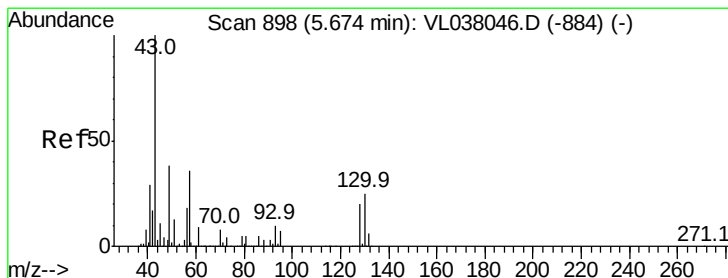
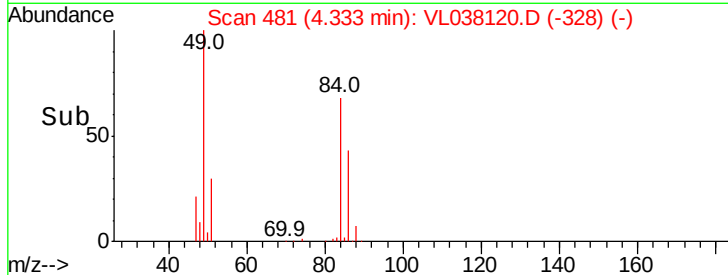
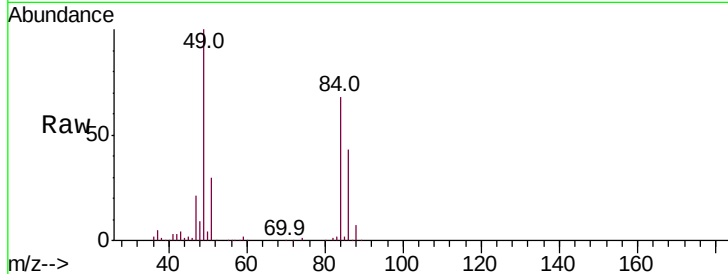
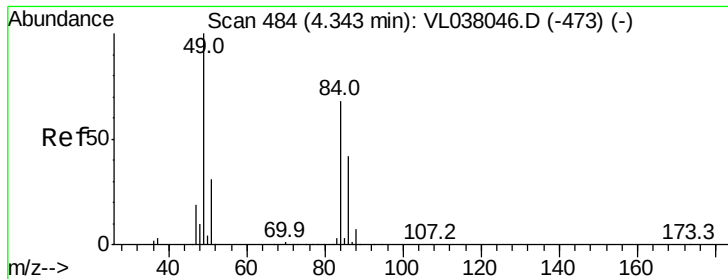
Tgt Ion: 45 Resp: 4016978

Ion Ratio Lower Upper

45 100

58 1.9 1.4 2.0



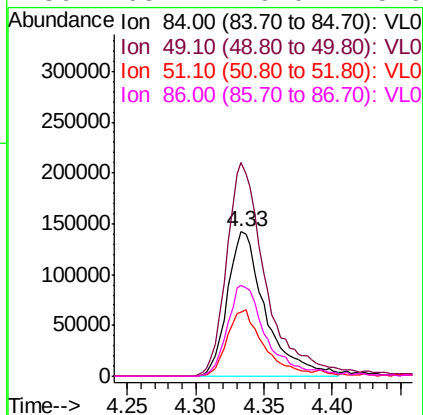


#20
Methvlene Chloride
Concen: 6.385 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Nov 2021 4:39 SG-PURE-BARRE

Tot Ion:
Ion Ratio
84 100
49 147.
51 43.
86 63.4 49.0 73.6

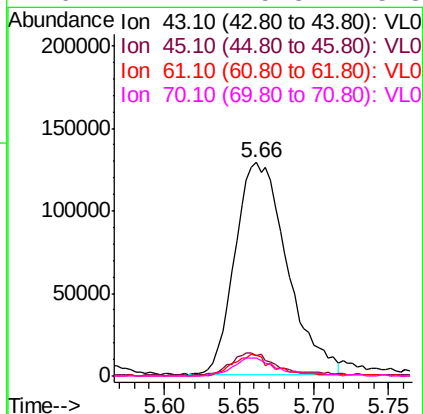
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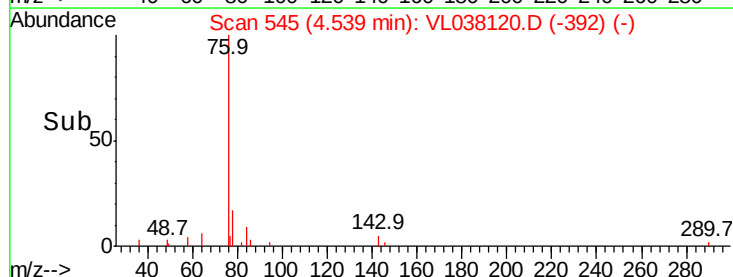
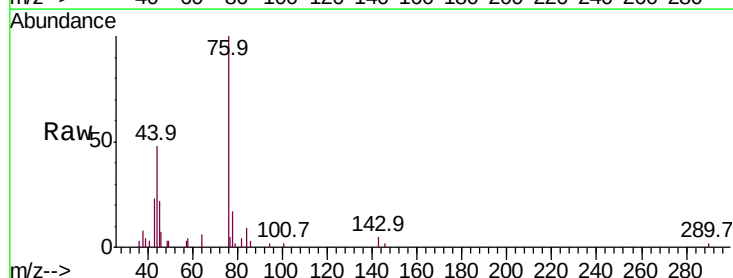
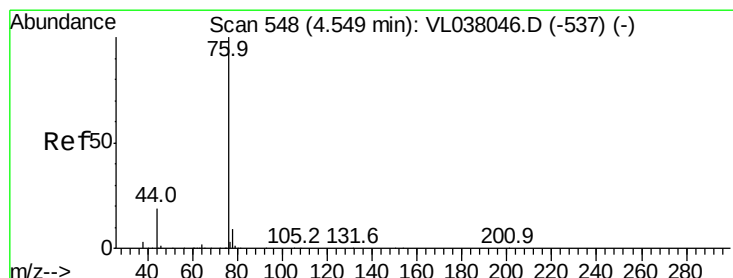
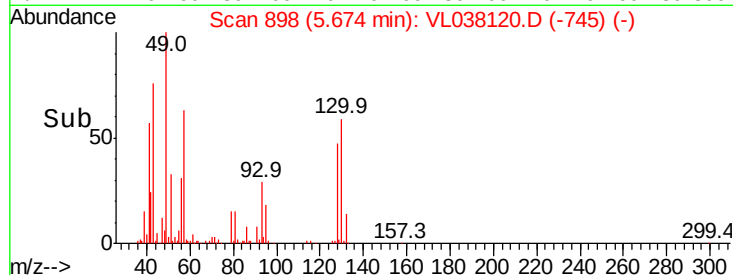
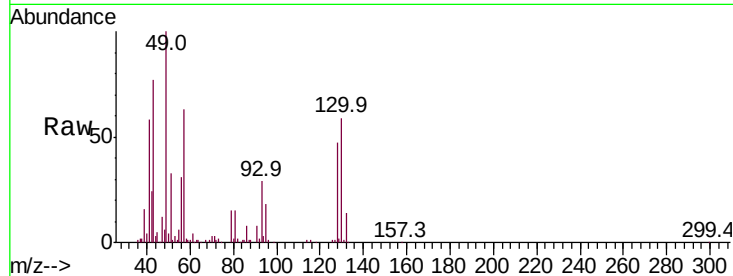
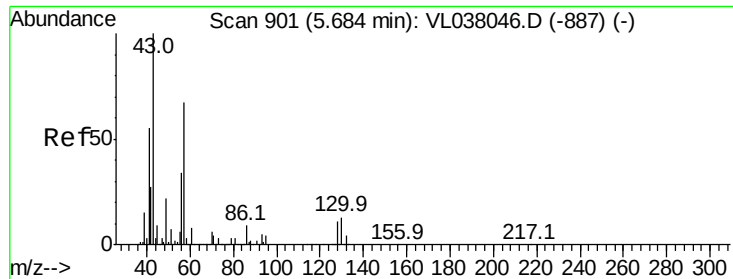
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#25
Ethyl Acetate
Concen: 1.205 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL038120.D
Acq: 24 Nov 2021 4:39

Tgt Ion: 43 Resp: 309730
Ion Ratio Lower Upper
43 100
45 10.4 7.9 11.9
61 8.3 7.8 11.6
70 7.4 5.8 8.8





#26

Hexane

Concen: 1.324 ppbv

RT: 5.67

Delta R.T.

Lab File:

Acq: 24 Nov 2021

Instrument:

MSVOA_L

ClientSampleId:

SG-PURE-BARRE

4.39

Tot Ion:

Ion Ratio

57 100

41 95.

43 198.

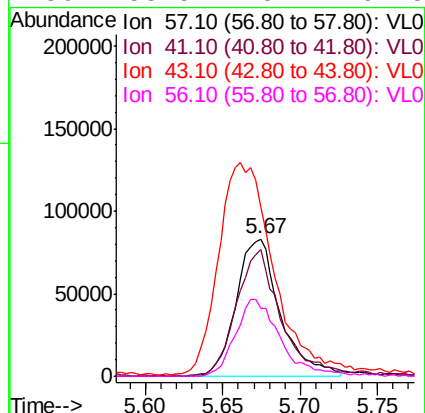
56 58.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#27

Carbon Disulfide

Concen: 0.178 ppbv m

RT: 4.54 min Scan# 545

Delta R.T. -0.01 min

Lab File: VL038120.D

Acq: 24 Nov 2021 4:39

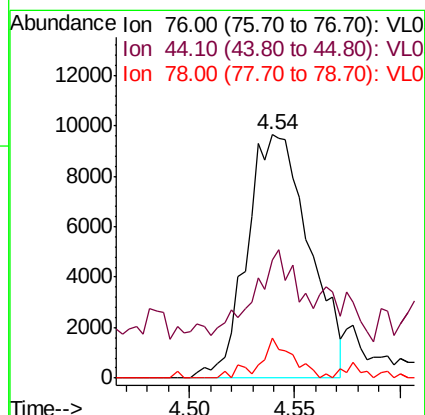
Tgt Ion: 76 Resp: 19789

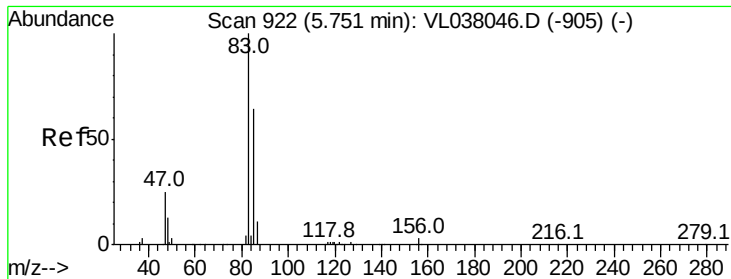
Ion Ratio Lower Upper

76 100

44 39.5 14.9 22.3#

78 8.7 7.6 11.4



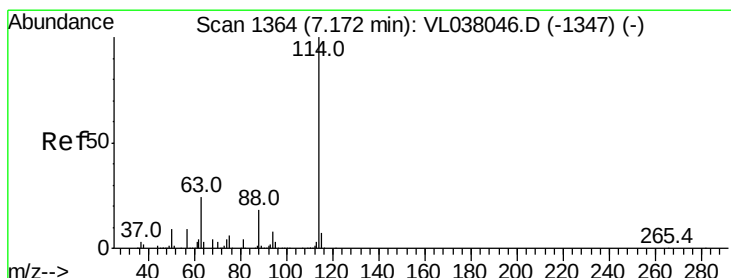
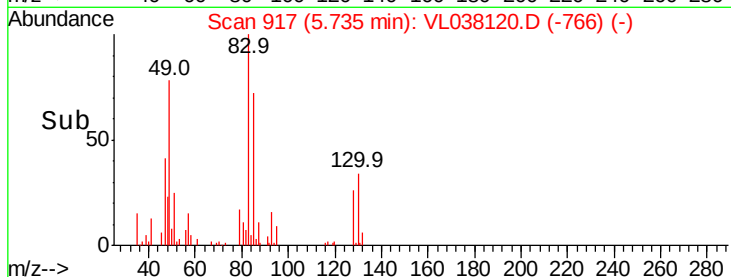
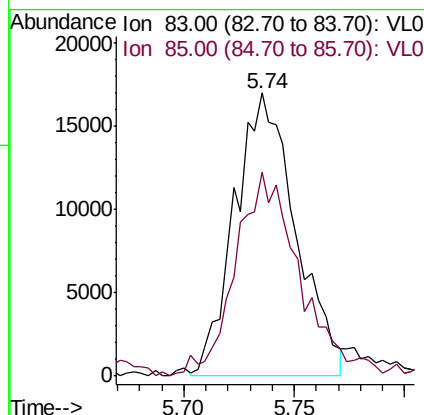
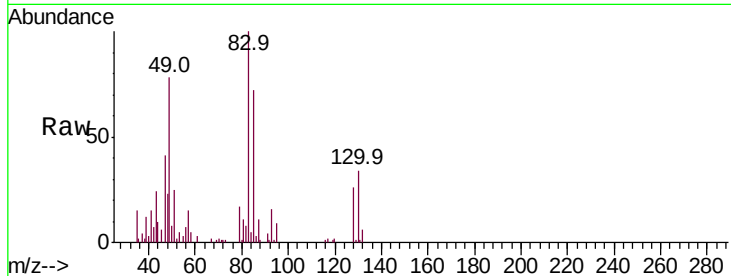


#29
Chloroform
Concen: 0.180 ppbv
RT: 5.74
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Nov 2021 4:39

Tot Ion:
Ion Ratio
83 100
85 65.

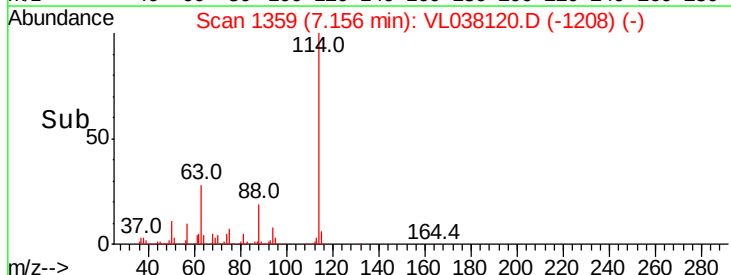
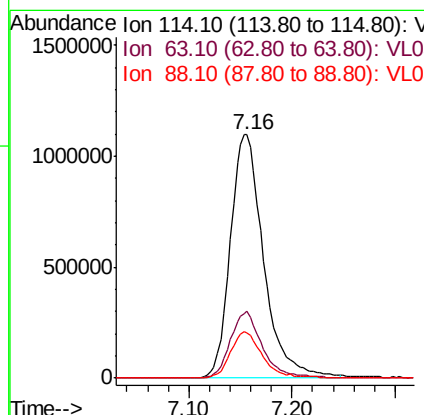
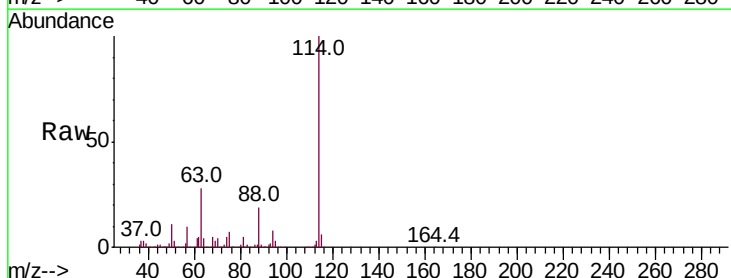
Manual Integrations
APPROVED

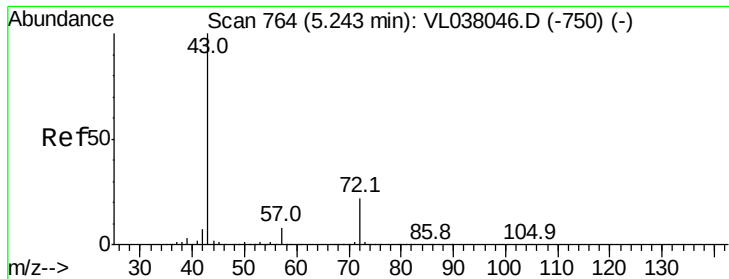
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL038120.D
Acq: 24 Nov 2021 4:39

Tgt Ion:114 Resp: 2458106
Ion Ratio Lower Upper
114 100
63 26.7 19.7 29.5
88 18.5 14.4 21.6



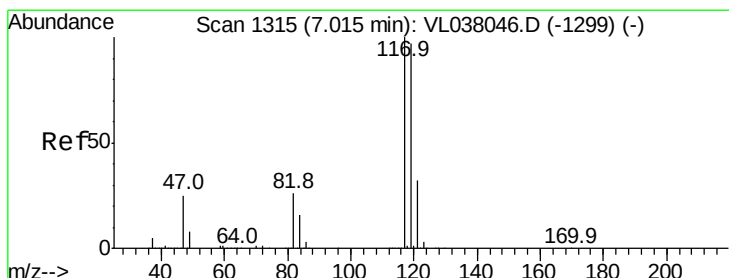
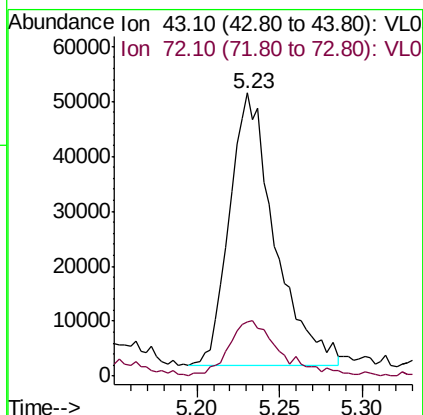
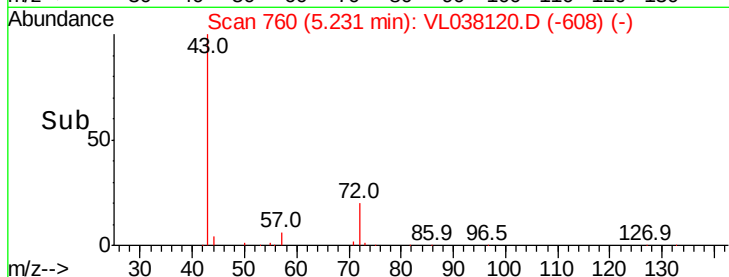
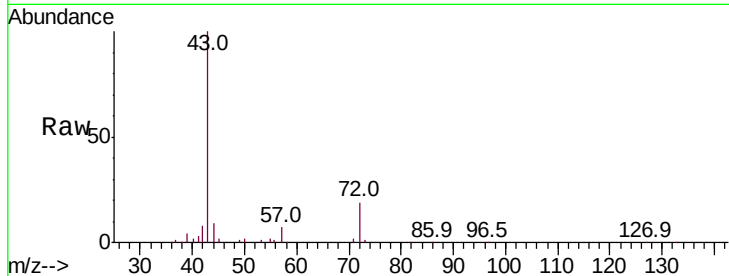


#34
2-Butanone
Concen: 0.950 ppbv
RT: 5.23
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 24 Nov 2021 4:39 SG-PURE-BARRE

Tot Ion:
Ion Rati
43 100
72 23.

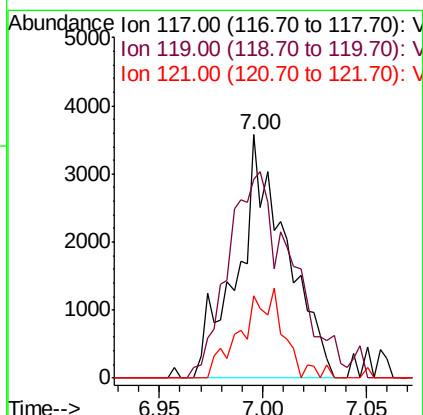
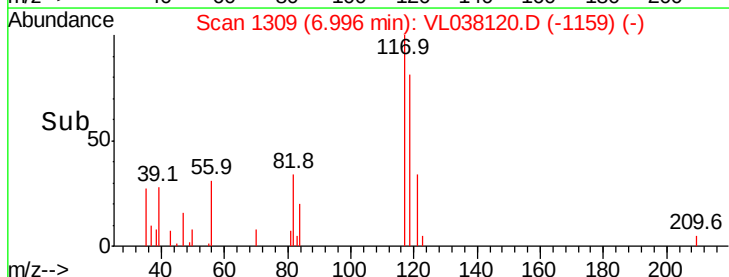
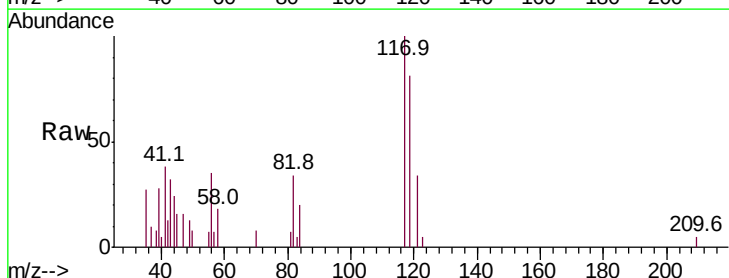
Manual Integrations
APPROVED

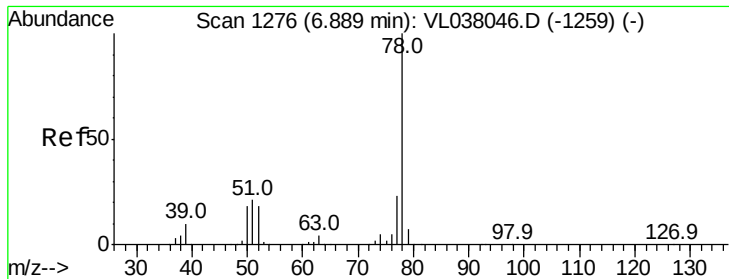
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#35
Carbon Tetrachloride
Concen: 0.034 ppbv m
RT: 7.00 min Scan# 1309
Delta R.T. -0.02 min
Lab File: VL038120.D
Acq: 24 Nov 2021 4:39

Tgt Ion:117 Resp: 5931
Ion Ratio Lower Upper
117 100
119 81.5 77.7 116.5
121 33.9 25.6 38.4



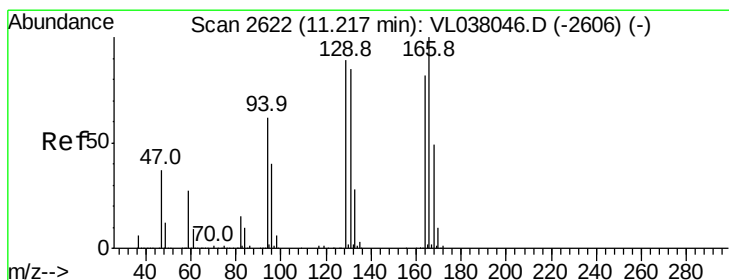
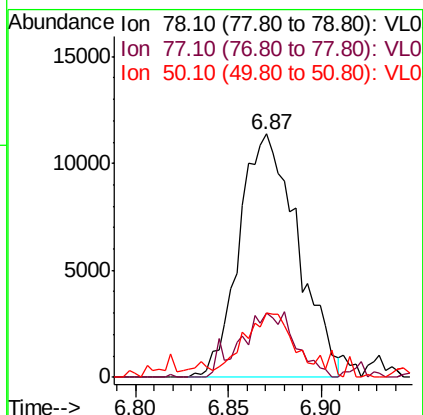
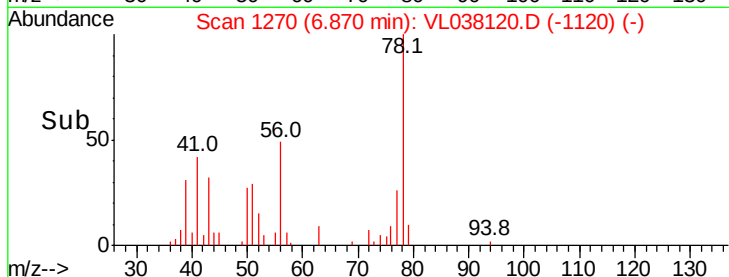
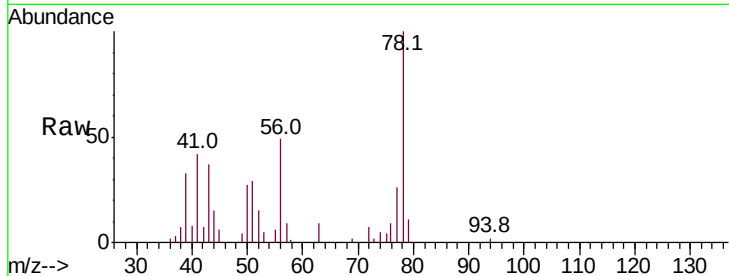


#36
Benzene
Concen: 0.102 ppbv
RT: 6.87
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 24 Nov 2021 4:39

Tot Ion:
Ion Ratio
78 100
77 26.
50 25.

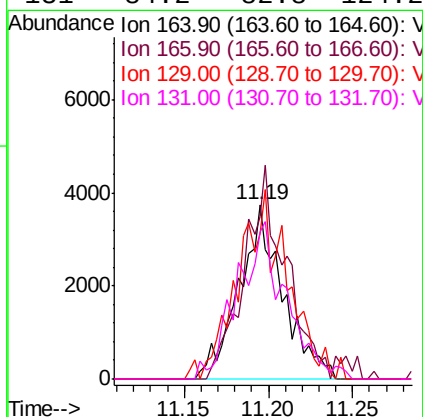
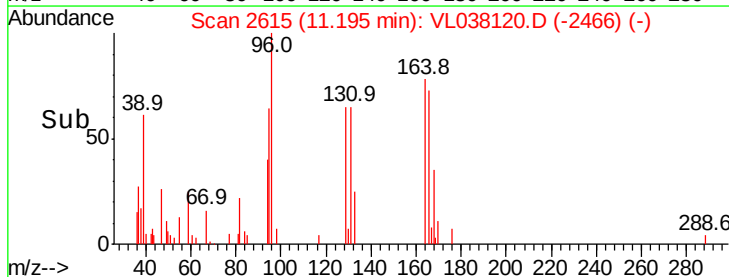
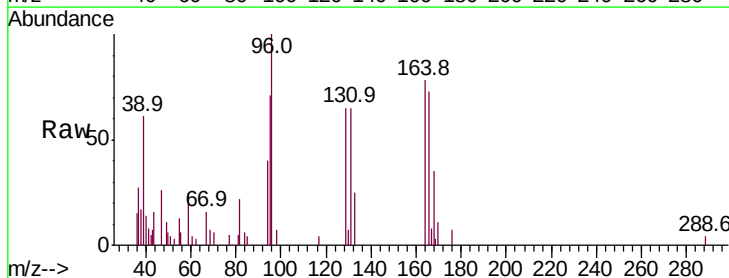
Manual Integrations
APPROVED

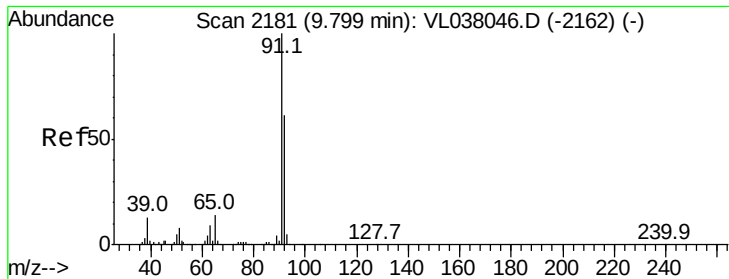
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#52
Tetrachloroethene
Concen: 0.075 ppbv m
RT: 11.19 min Scan# 2615
Delta R.T. -0.02 min
Lab File: VL038120.D
Acq: 24 Nov 2021 4:39

Tgt Ion:164 Resp: 6784
Ion Ratio Lower Upper
164 100
166 93.5 97.2 145.8#
129 83.6 86.9 130.3#
131 84.2 82.8 124.2





#53

Toluene

Concen: 0.327 ppbv

RT: 9.78

Delta R.T.

Lab File:

Acq: 24 Nov 2021

Instrument:

MSVOA_1

ClientSampleId:

SG-PURE-BARRE

Tot Ion:

Ion Ratio

91 100

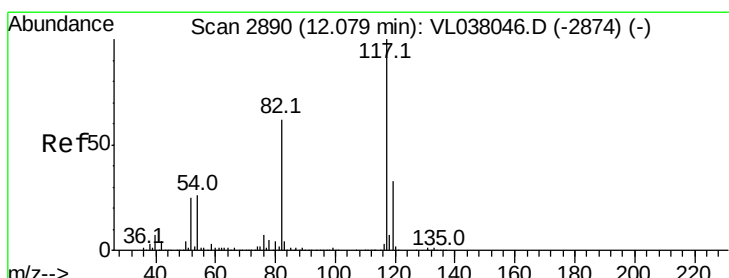
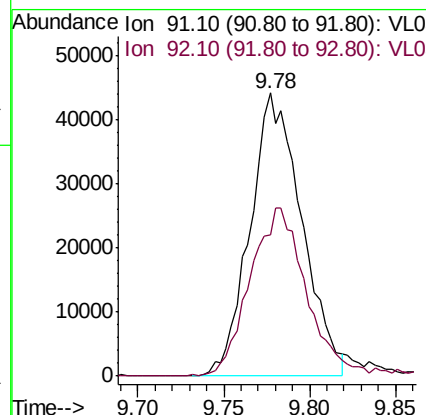
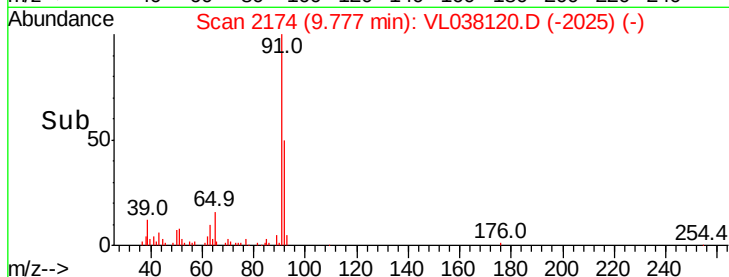
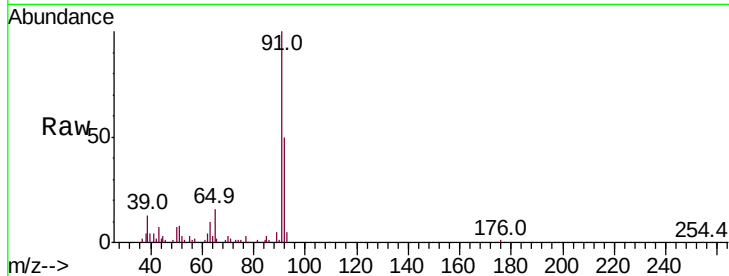
92 66.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.02 min

Lab File: VL038120.D

Acq: 24 Nov 2021 4:39

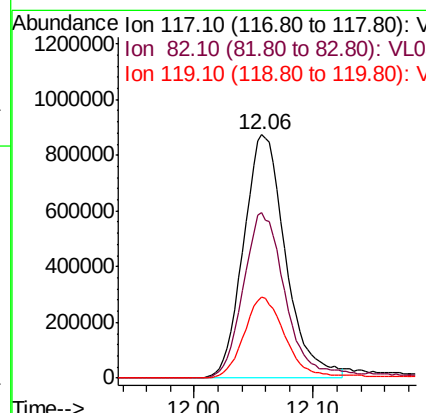
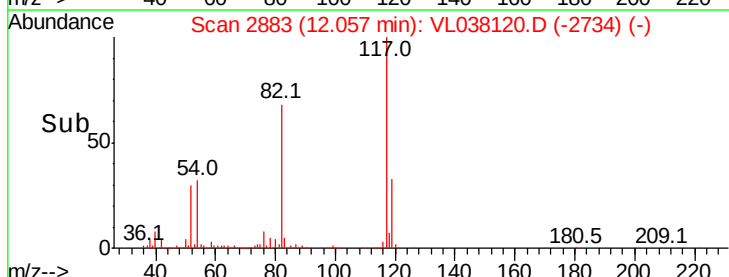
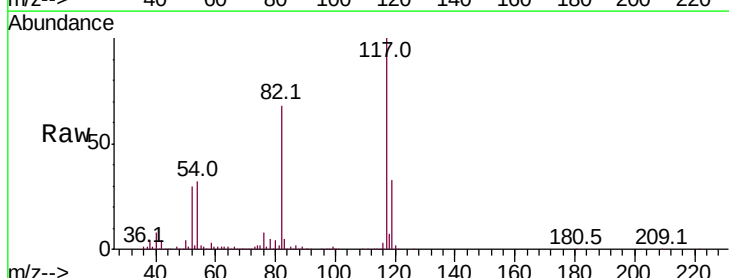
Tgt Ion:117 Resp: 2138759

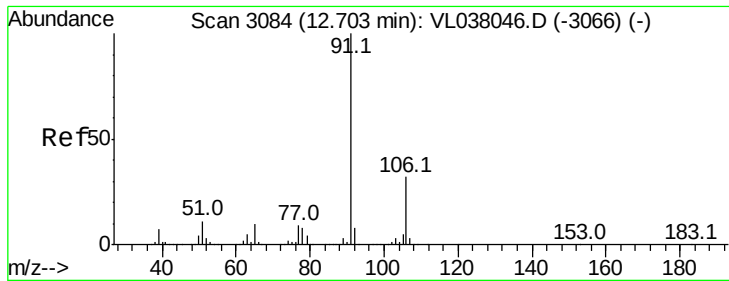
Ion Ratio Lower Upper

117 100

82 71.5 52.8 79.2

119 34.9 26.8 40.2



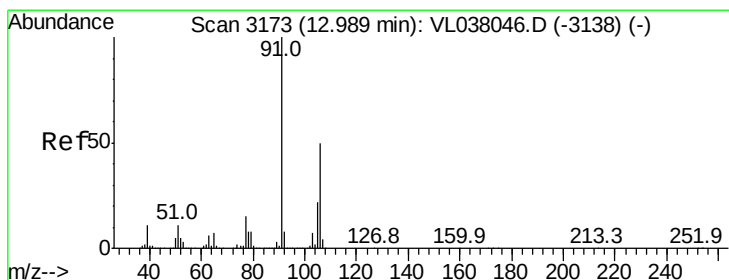
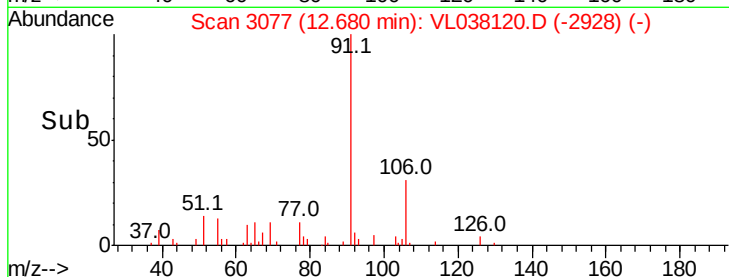
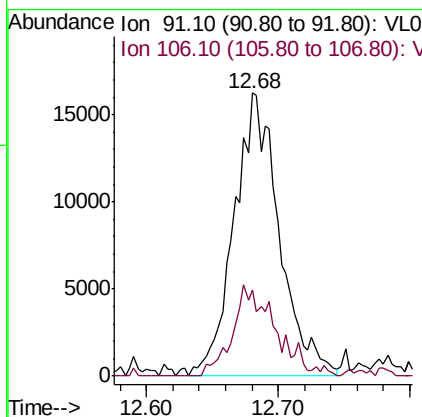
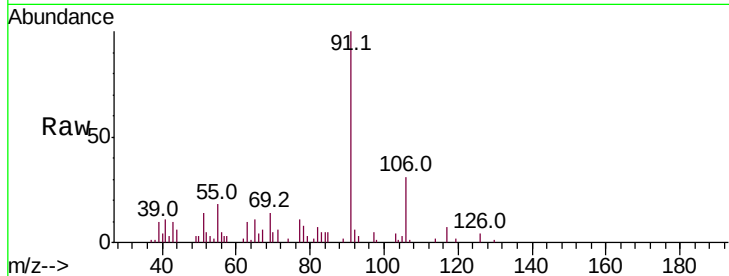


#58
Ethyl Benzene
Concen: 0.110 ppbv m
RT: 12.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Nov 2021 4:39 SG-PURE-BARRE

Tot Ion:
Ion Ratio
91 100
106 30.

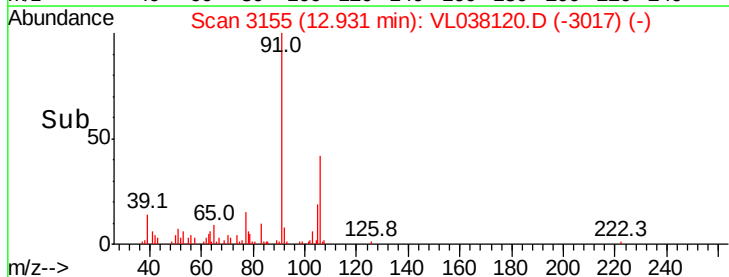
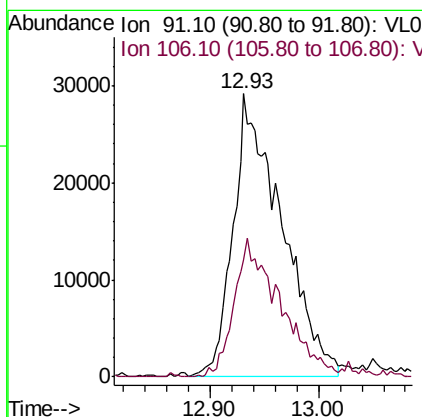
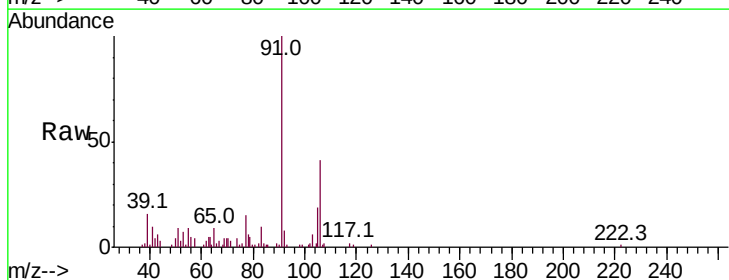
Manual Integrations
APPROVED

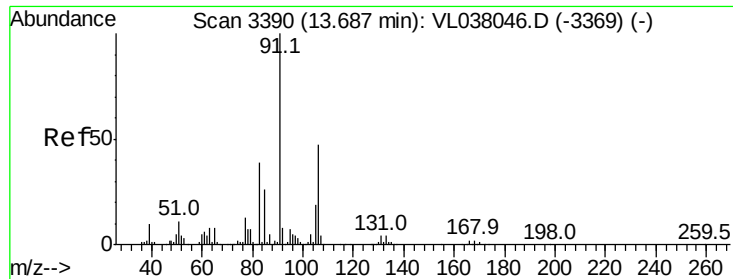
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#59
m/p-Xylene
Concen: 0.303 ppbv m
RT: 12.93 min Scan# 3155
Delta R.T. -0.06 min
Lab File: VL038120.D
Acq: 24 Nov 2021 4:39

Tgt Ion: 91 Resp: 90312
Ion Ratio Lower Upper
91 100
106 0.0 38.1 57.1#





#60

o-Xylene

Concen: 0.155 ppbv

RT: 13.66

Delta R.T.

Lab File:

Acq: 24 Nov 2021

Instrument:

MSVOA_1

ClientSampleId:

SG-PURE-BARRE

4:39

Tot Ion:

Ion Ratio

91 100

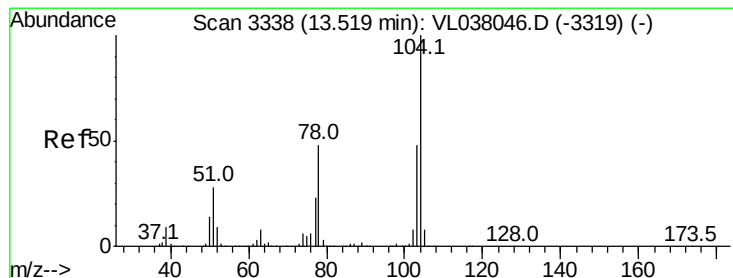
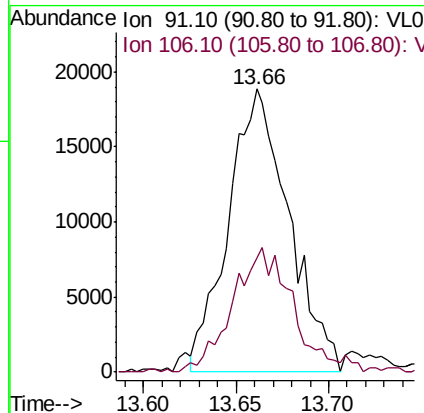
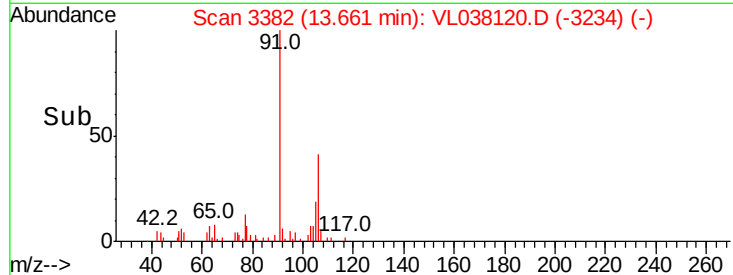
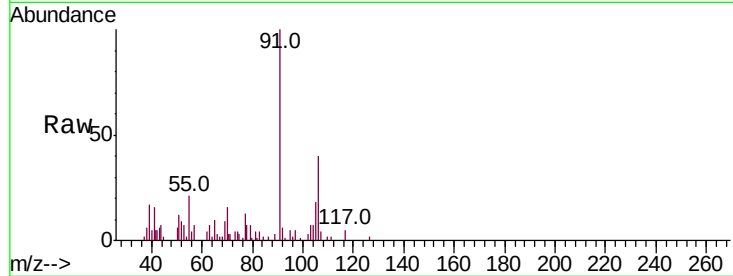
106 44.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021



#61

Styrene

Concen: 0.895 ppbv m

RT: 13.50 min Scan# 3333

Delta R.T. -0.02 min

Lab File: VL038120.D

Acq: 24 Nov 2021 4:39

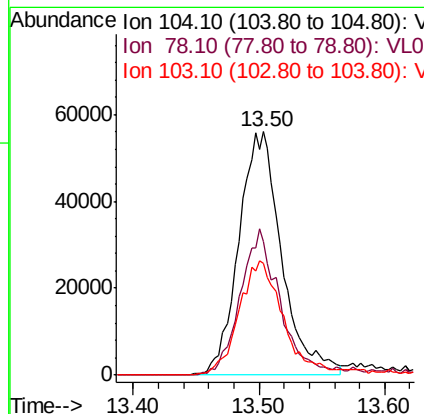
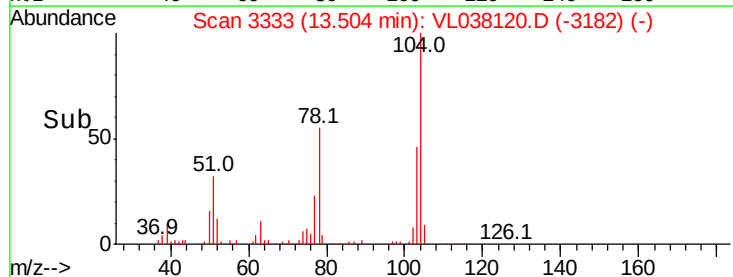
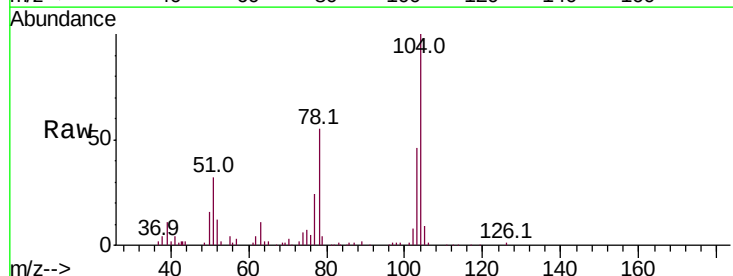
Tgt Ion:104 Resp: 132477

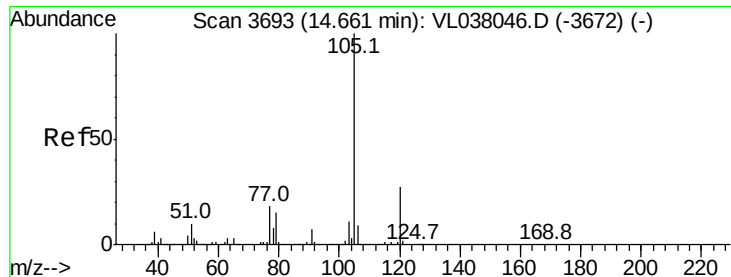
Ion Ratio Lower Upper

104 100

78 0.0 39.8 59.6#

103 0.0 38.2 57.2#



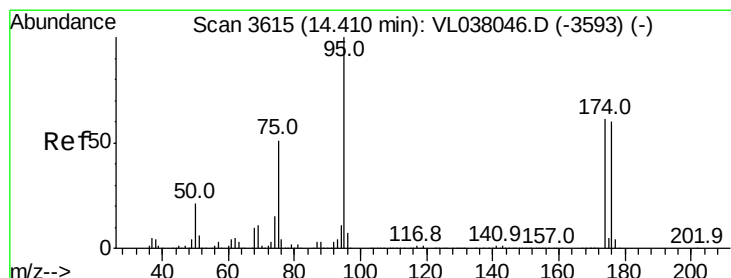
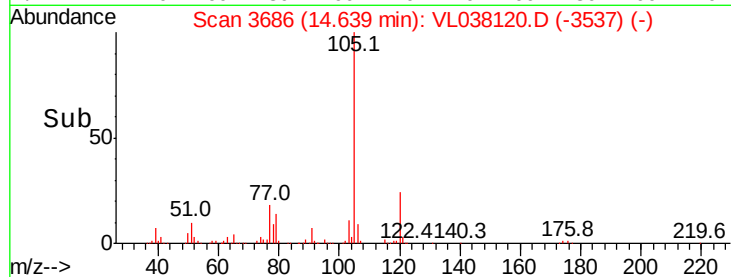
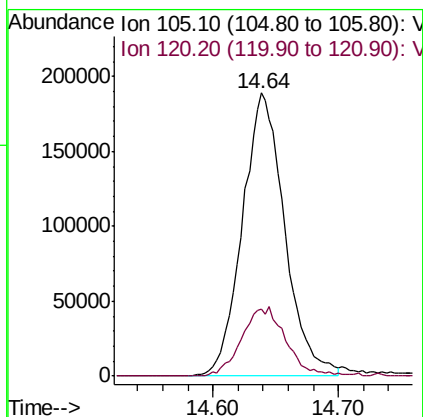
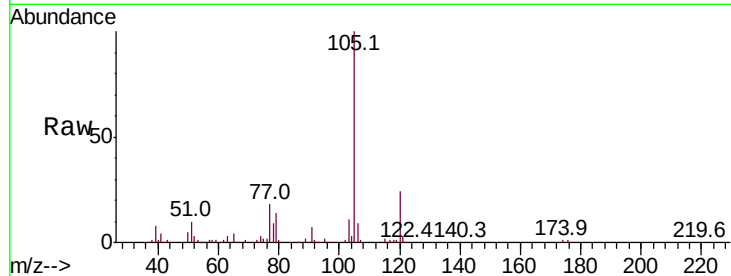


#62
Isopropylbenzene
Concen: 1.132 ppbv
RT: 14.64 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SG-PURE-BARRE
Acq: 24 Nov 2021 4:39

Tot Ion: 1
Ion Ratio
105 100
120 25.

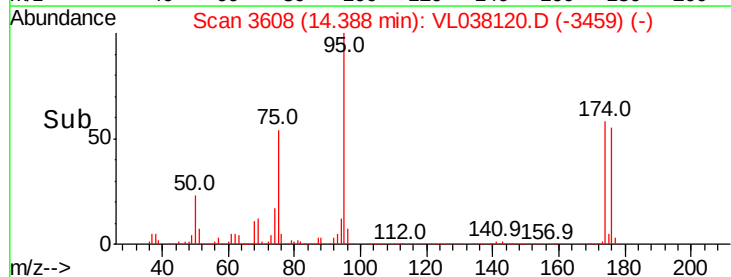
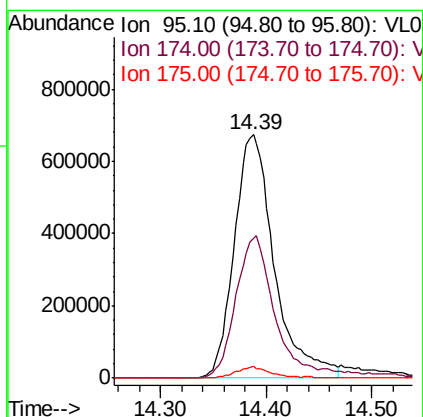
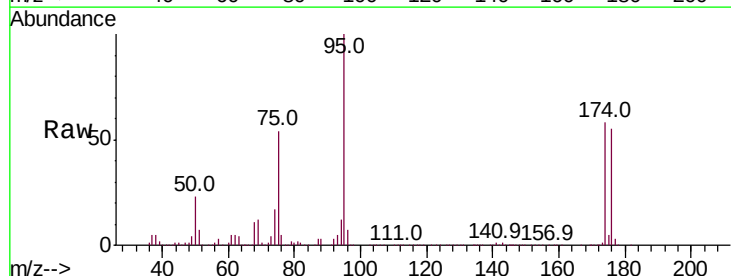
Manual Integrations
APPROVED

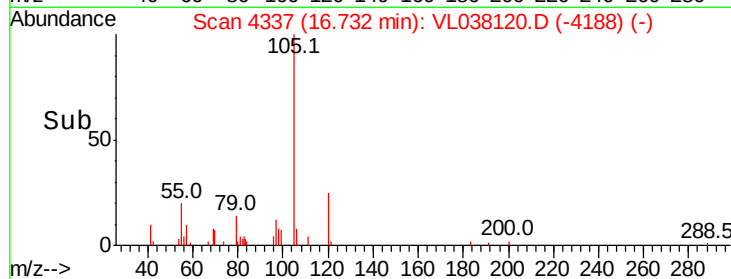
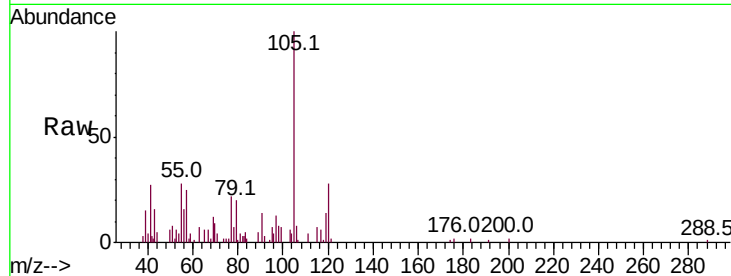
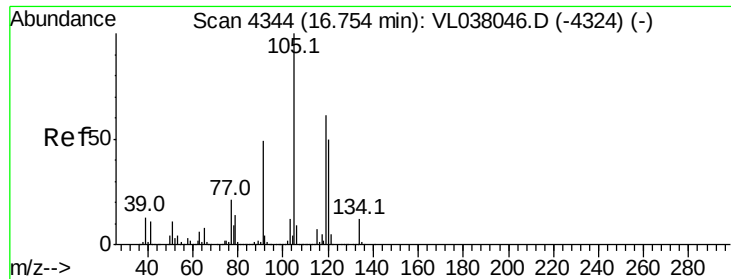
Reviewed By :Semsettin Yesilyurt 11/29/2021
Supervised By :Mahesh Dadoda 11/29/2021



#68
1-Bromo-4-Fluorobenzene
Concen: 11.535 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.02 min
Lab File: VL038120.D
Acq: 24 Nov 2021 4:39

Tgt Ion: 95 Resp: 1779483
Ion Ratio Lower Upper
95 100
174 60.0 53.1 79.7
175 4.4 4.0 6.0





#74

1,2,4-Trimethylbenzene

Concen: 0.103 ppbv m

RT: 16.73

Delta R.T

Lab File: ClientSampleId :

Acq: 24 Nov 2021 4.39

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/29/2021

Supervised By :Mahesh Dadoda 11/29/2021

Tot Ion	Ion	Ratio
105	100	
120	28.	
91	13.	
77	22.2	16.6 25.0

