

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020122\
 Data File : VL038317.D
 Acq On : 1 Feb 2022 10:56
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Quant Time: Feb 02 05:55:37 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 02/07/2022
 Supervised By : Mahesh Dadoda 02/07/2022

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	937008	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	2642722	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2428445m	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1946658	10.56	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	1887107	9.461	ppbv	99
3) Chlorodifluoromethane	2.97	51	1608442	8.623	ppbv	100
4) Chloromethane	3.12	50	546643	8.518	ppbv	96
5) Vinyl Chloride	3.24	62	564014	8.806	ppbv	100
6) Bromomethane	3.45	94	322464	9.312	ppbv	96
7) Chloroethane	3.54	64	189336	8.752	ppbv	96
8) Dichlorotetrafluoroethane	3.17	85	1327611	8.601	ppbv	96
9) Propene	2.99	41	550481	9.066	ppbv	99
10) Heptane	8.08	43	1401239	8.969	ppbv	99
11) Trichlorofluoromethane	3.93	101	1440630	9.271	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1068038	9.093	ppbv	99
13) Ethanol	3.58	45	61452	9.427	ppbv	95
14) Bromoethene	3.72	108	429117	9.349	ppbv	98
15) Acetone	3.83	43	708409	8.576	ppbv	100
16) 1,3-Butadiene	3.31	39	519814	8.770	ppbv	97
17) tert-Butyl alcohol	4.26	59	810014	8.935	ppbv	98
18) 1,1-Dichloroethene	4.26	96	457846	8.963	ppbv	95
19) Isopropyl Alcohol	3.94	45	461244	8.926	ppbv #	97
20) Methylene Chloride	4.31	84	388418	8.085	ppbv	98
21) Allyl Chloride	4.38	41	716415	9.803	ppbv	99
22) trans-1,2-Dichloroethene	4.85	96	506400	9.595	ppbv	98
23) Vinyl Acetate	5.04	43	1195084	9.951	ppbv	98
24) 1,1-Dichloroethane	4.98	63	986663	9.222	ppbv	100
25) Ethyl Acetate	5.64	43	2185898	9.452	ppbv	100
26) Hexane	5.65	57	1002670	9.321	ppbv	99
27) Carbon Disulfide	4.52	76	1214170	9.648	ppbv	99
28) Methyl tert-Butyl Ether	5.00	73	1092953	9.795	ppbv	99
29) Chloroform	5.72	83	1587169	9.039	ppbv	100
30) Cyclohexane	7.09	84	863407	9.219	ppbv	99
31) cis-1,2-Dichloroethene	5.51	61	998064	10.637	ppbv	95
32) 1,1,1-Trichloroethane	6.47	97	1605149	9.153	ppbv	99
34) 2-Butanone	5.21	43	771452	8.927	ppbv	100
35) Carbon Tetrachloride	6.98	117	1662652	8.963	ppbv	97
36) Benzene	6.85	78	2152940	9.210	ppbv	99
37) 1,2-Dichloroethane	6.27	62	1210790	9.043	ppbv	99
38) Trichloroethene	7.79	130	779939	8.957	ppbv	99
39) 1,2-Dichloropropane	7.57	63	851029	8.980	ppbv	98
40) 1,4-Dioxane	7.79	88	214289	9.394	ppbv	70
41) Tetrahydrofuran	6.01	42	552426	9.509	ppbv	98
42) Bromodichloromethane	7.75	83	1788504	9.003	ppbv	99
43) Methyl Methacrylate	7.97	69	809646	9.792	ppbv	99

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Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/07/2022
 Supervised By : Mahesh Dadoda 02/07/2022

Quant Time: Feb 02 05:55:37 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422A

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.83	57	3584331	8.701	ppbv	99
45) t-1,3-Dichloropropene	9.23	75	719563	10.711	ppbv	97
46) cis-1,3-Dichloropropene	8.66	75	909712	10.149	ppbv	97
47) 1,1,2-Trichloroethane	9.43	97	853114	9.161	ppbv	98
48) Dibromochloromethane	10.26	129	1474108	9.403	ppbv	99
49) Bromoform	12.99	173	1132095	10.016	ppbv	100
50) 4-Methyl-2-Pentanone	8.70	43	1424784	9.241	ppbv	100
51) 2-Hexanone	10.09	43	627566	9.242	ppbv #	94
52) Tetrachloroethene	11.18	164	707283	8.779	ppbv	96
53) Toluene	9.76	91	2419312	9.350	ppbv	98
54) 1,2-Dibromoethane	10.56	107	1262061	9.533	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.07	131	950286	8.940	ppbv #	59
57) Chlorobenzene	12.10	112	1742349	8.966	ppbv	98
58) Ethyl Benzene	12.66	91	3211031	8.997	ppbv	99
59) m/p-Xylene	12.95	91	5356129m	17.590	ppbv	
60) o-Xylene	13.64	91	2526329	8.921	ppbv	100
61) Styrene	13.48	104	1345312	10.179	ppbv	99
62) Isopropylbenzene	14.62	105	3387637	8.973	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.63	83	1792035	8.552	ppbv	100
64) n-propylbenzene	15.51	120	874688	9.631	ppbv	95
65) tert-Butylbenzene	16.70	119	2865406	9.215	ppbv	100
66) Benzyl Chloride	16.94	91	168711	11.944	ppbv	99
67) sec-Butylbenzene	17.25	105	4027376	9.310	ppbv	100
69) p-Isopropyltoluene	17.60	119	3224793	9.742	ppbv	99
70) n-Butylbenzene	18.50	91	3204661	9.884	ppbv	100
71) 2-Chlorotoluene	15.40	91	2626370	9.392	ppbv	99
72) 4-Ethyltoluene	15.79	105	2896658	9.781	ppbv	100
73) 1,3,5-Trimethylbenzene	15.95	105	2554508	9.591	ppbv	98
74) 1,2,4-Trimethylbenzene	16.71	105	2638117	9.402	ppbv	97
75) 1,3-Dichlorobenzene	16.94	146	1461933	9.709	ppbv	100
76) 1,4-Dichlorobenzene	17.09	146	1419570	9.738	ppbv	97
77) 1,2-Dichlorobenzene	17.77	146	1349194	9.648	ppbv	100
78) Hexachloro-1,3-Butadiene	23.32	225	722434	7.430	ppbv	99
79) Naphthalene	22.13	128	1241423	9.463	ppbv	98
80) Naphthalene,2-methyl-	24.93	142	228146	15.992	ppbv	89
81) 1,2,4-Trichlorobenzene	21.87	180	666605	8.639	ppbv	99

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

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Manual Integrations
APPROVED

Quant Time: Feb 02 05:55:37 2022

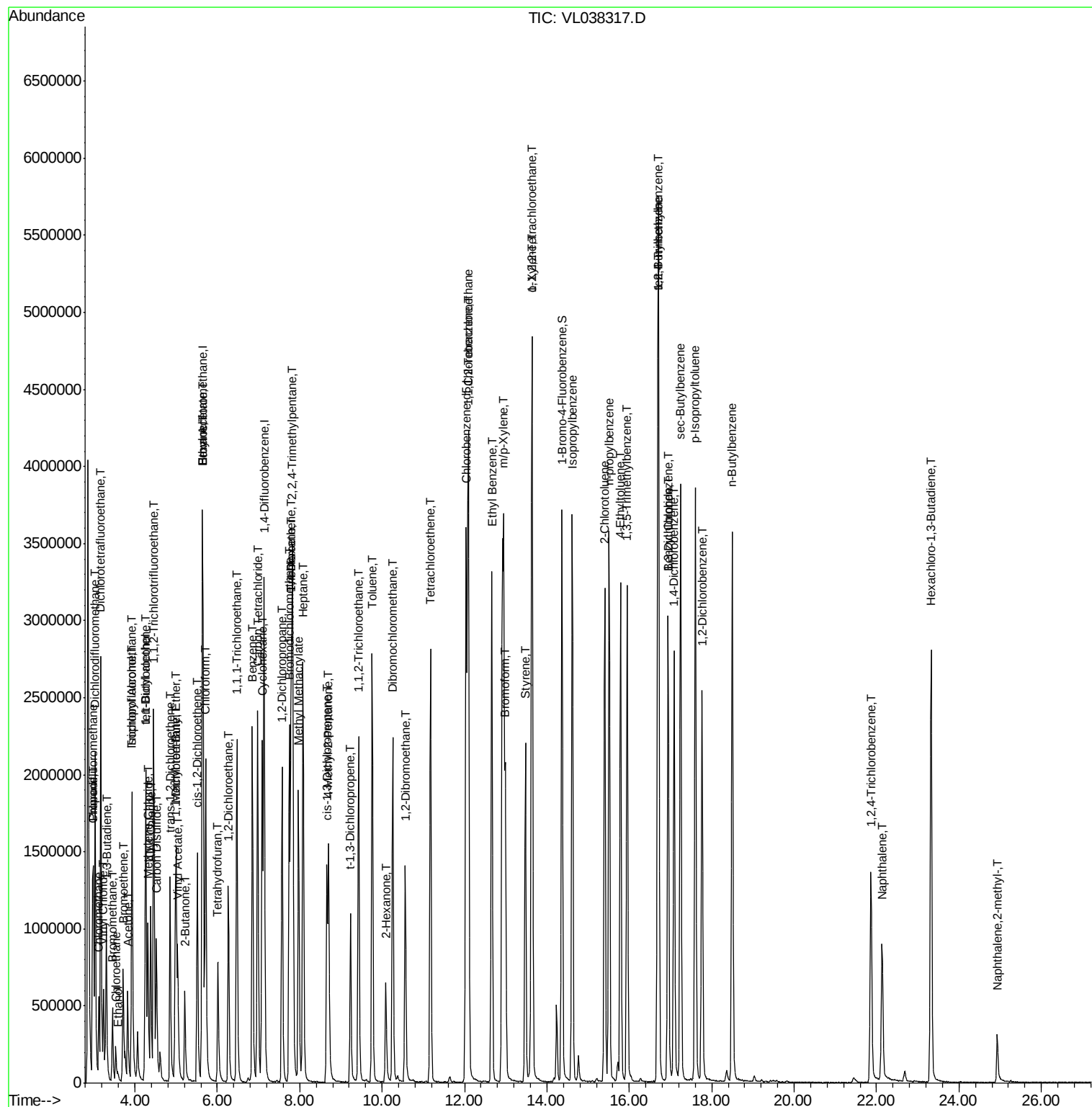
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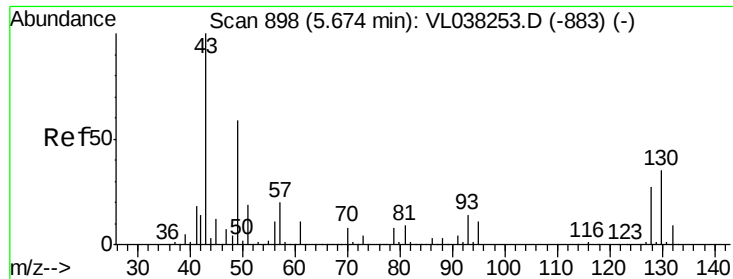
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:

QLast Update : Mon Jan 24 14:12:48 2022

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Reviewed By : Semsettin Yesilyurt 02/07/2022
Supervised By : Mahesh Dadoda 02/07/2022





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 1 Feb 2022 10:56 VSTDCCC010

Tgt Ion:

Ion Ratio

49 100

128 51.

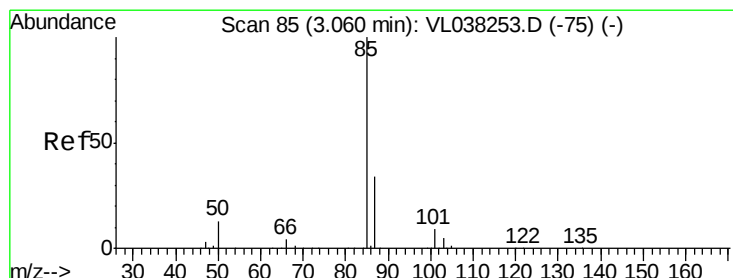
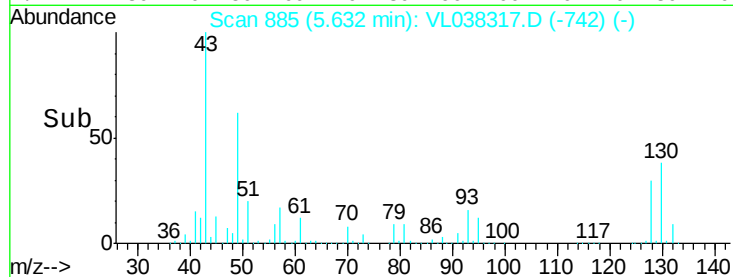
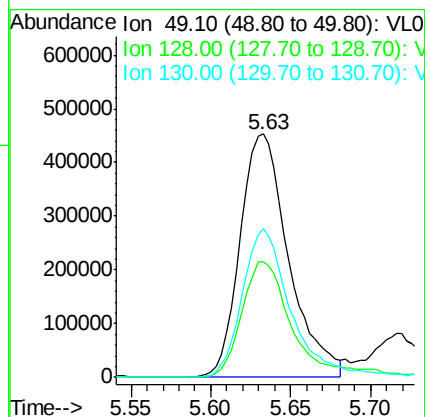
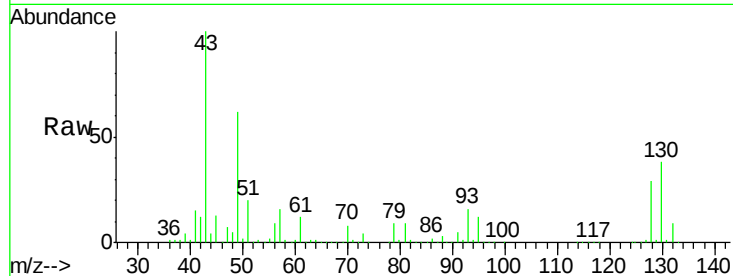
130 62.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#2

Dichlorodifluoromethane

Concen: 9.461 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.03 min

Lab File: VL038317.D

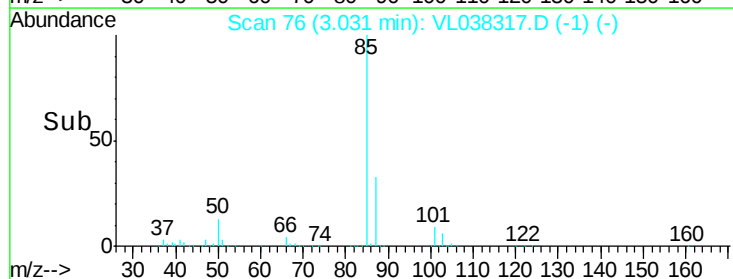
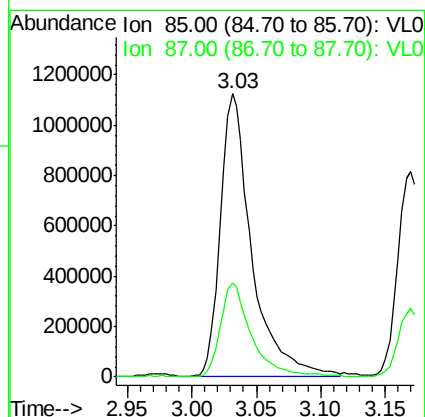
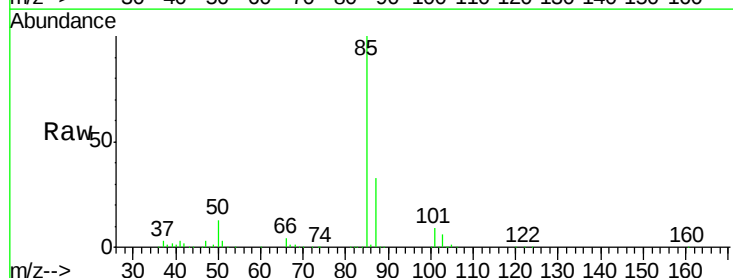
Acq: 1 Feb 2022 10:56

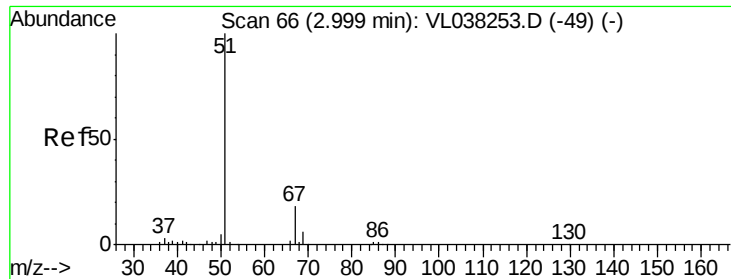
Tgt Ion: 85 Resp: 1887107

Ion Ratio Lower Upper

85 100

87 33.3 27.0 40.6





#3

Chlorodifluoromethane

Concen: 8.623 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 1 Feb 2022 10:56 VSTDCCC010

Tgt Ion:

Ion Ratio

51 100

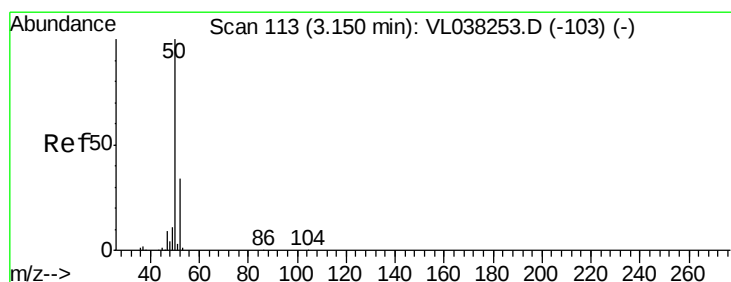
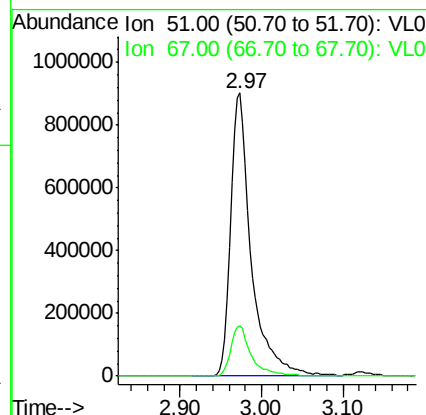
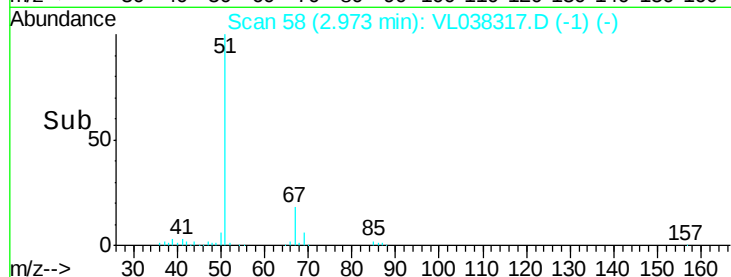
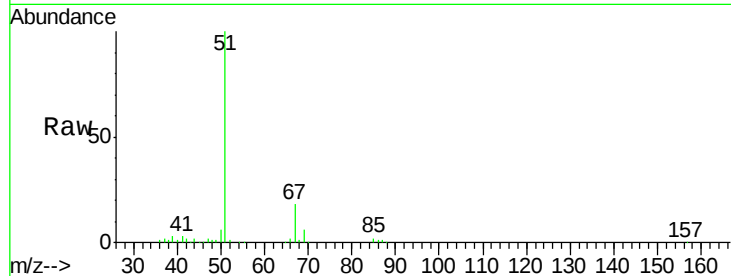
67 17.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#4

Chloromethane

Concen: 8.518 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.03 min

Lab File: VL038317.D

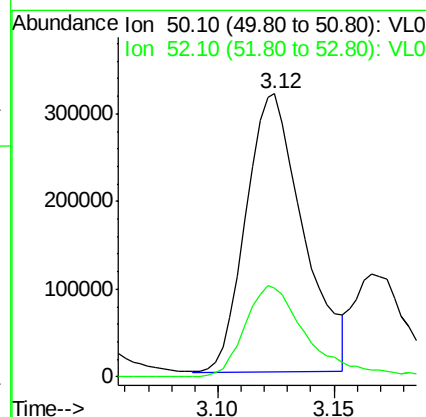
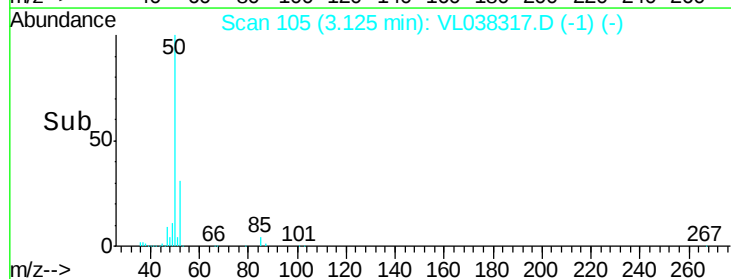
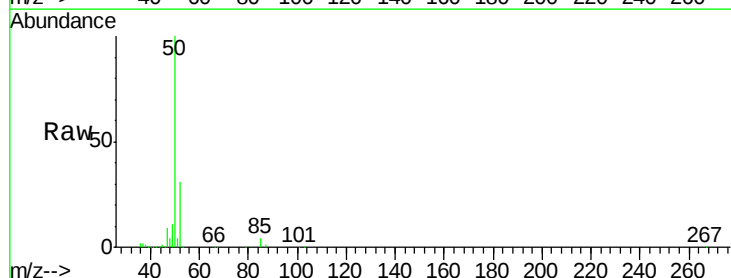
Acq: 1 Feb 2022 10:56

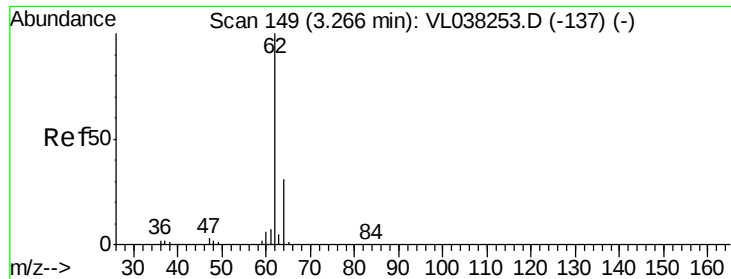
Tgt Ion: 50 Resp: 546643

Ion Ratio Lower Upper

50 100

52 31.7 27.1 40.7





#5

Vinyl Chloride

Concen: 8.806 ppbv

RT: 3.24 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VSTDCCC010

Acq: 1 Feb 2022 10:56

Tgt Ion:

Ion Ratio

62 100

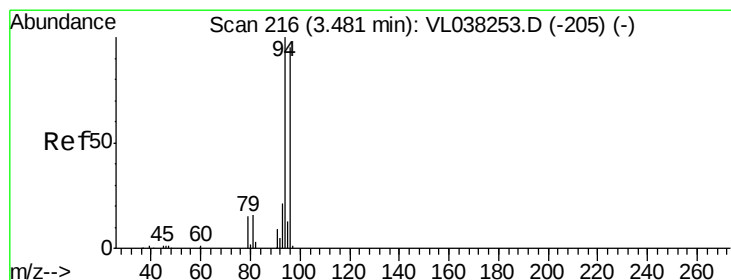
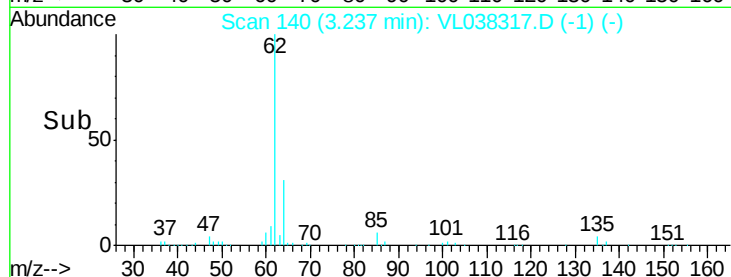
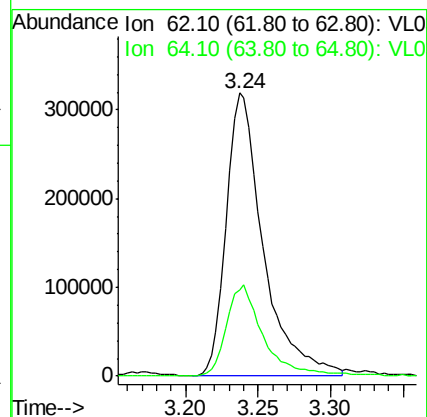
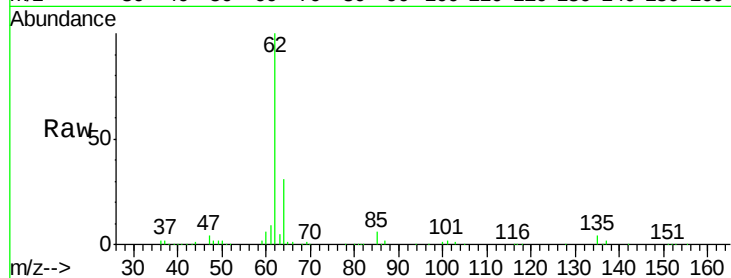
64 30.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#6

Bromomethane

Concen: 9.312 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.03 min

Lab File: VL038317.D

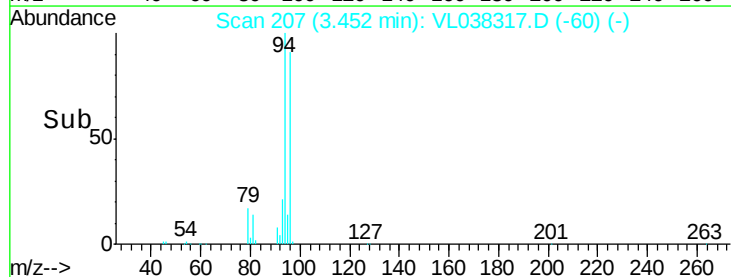
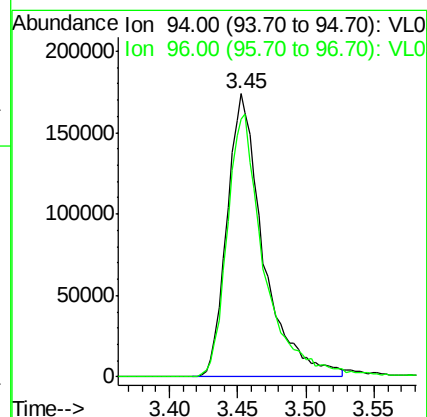
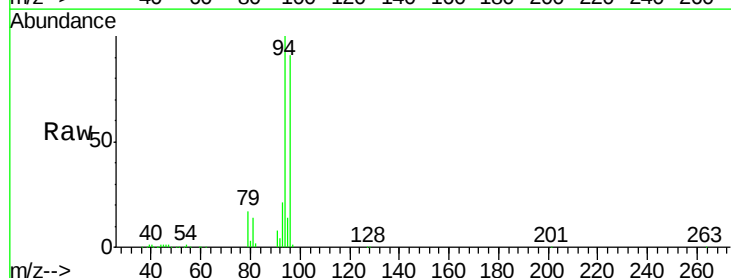
Acq: 1 Feb 2022 10:56

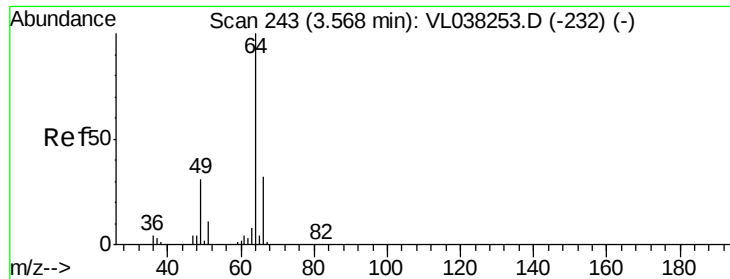
Tgt Ion: 94 Resp: 322464

Ion Ratio Lower Upper

94 100

96 91.1 76.0 114.0





#7

Chloroethane

Concen: 8.752 ppbv

RT: 3.54 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 1 Feb 2022 10:50 VSTDCCC010

Tgt Ion:

Ion Ratio

64 100

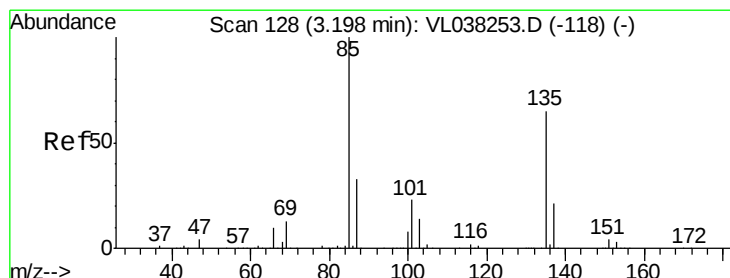
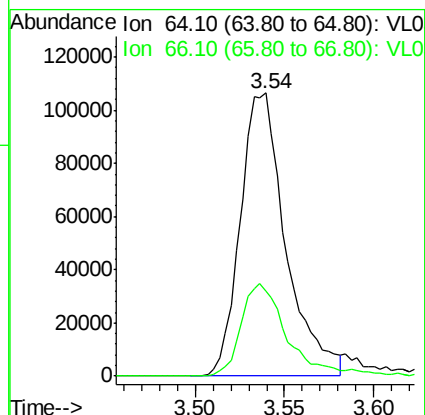
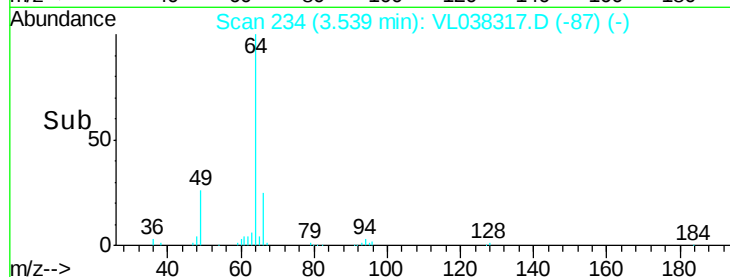
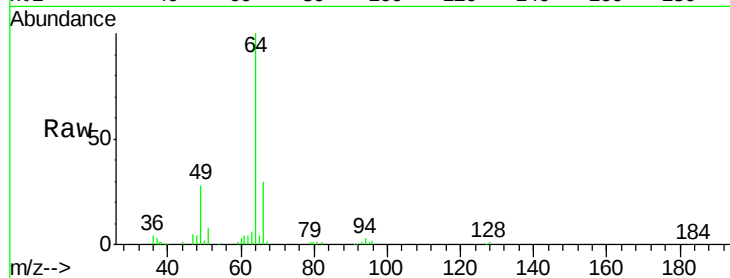
66 30.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#8

Dichlorotetrafluoroethane

Concen: 8.601 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.03 min

Lab File: VL038317.D

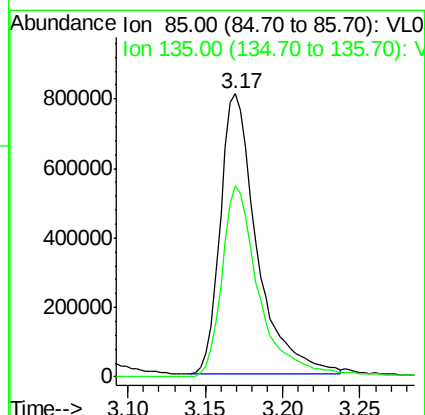
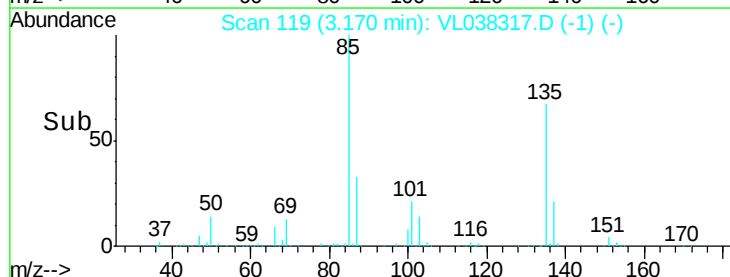
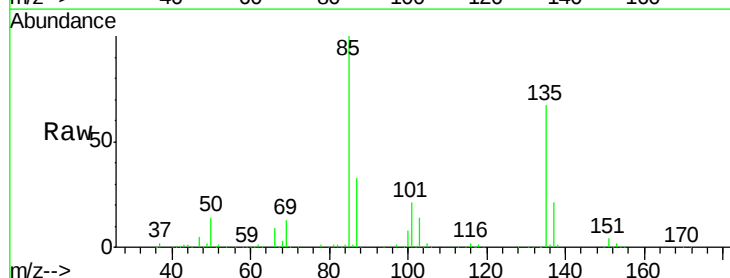
Acq: 1 Feb 2022 10:56

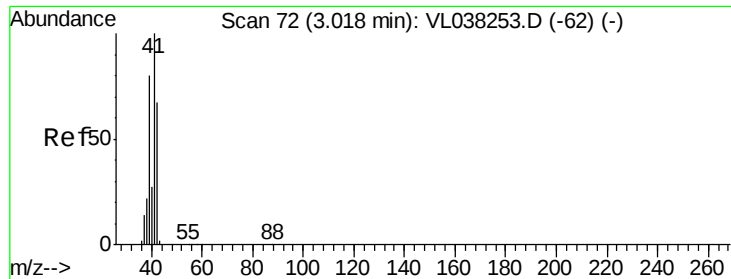
Tgt Ion: 85 Resp: 1327611

Ion Ratio Lower Upper

85 100

135 70.3 53.7 80.5



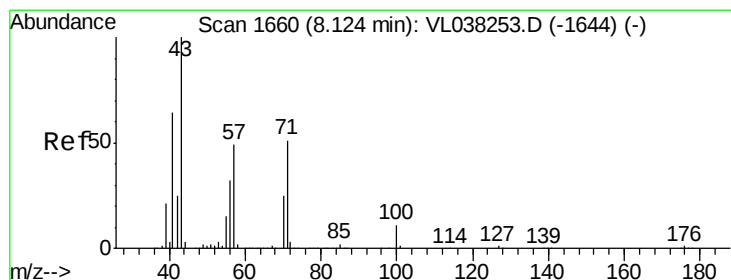
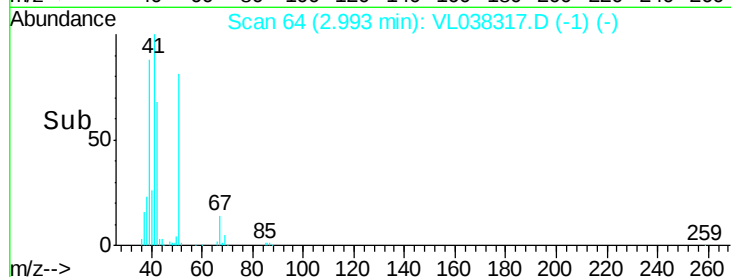
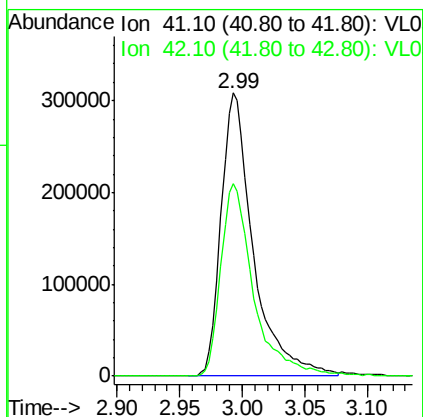
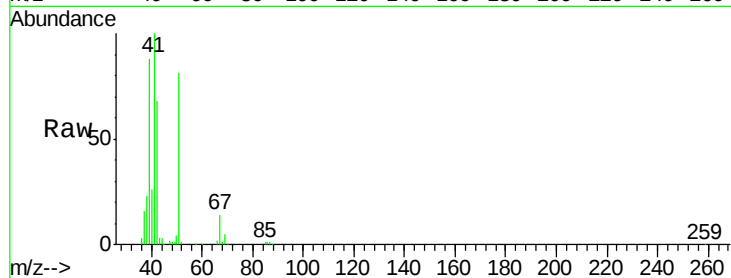


#9
 Propene
 Concen: 9.066 ppbv
 RT: 2.99
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010
 Acq: 1 Feb 2022 10:50

Tgt Ion:
 Ion Ratio
 41 100
 42 69.

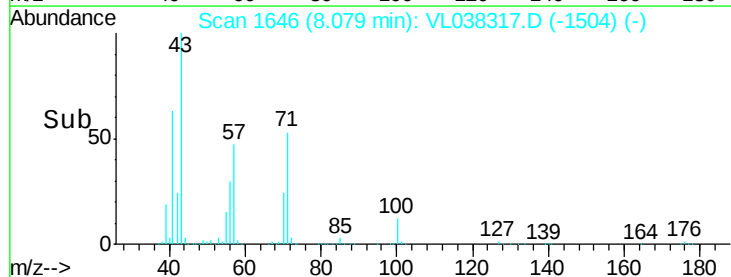
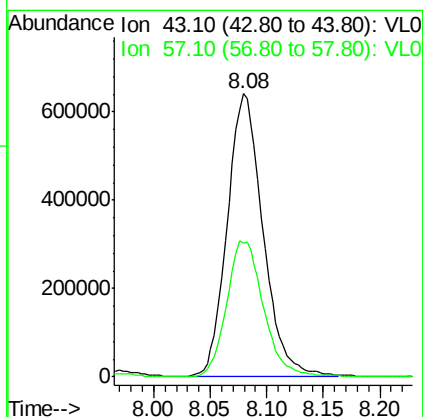
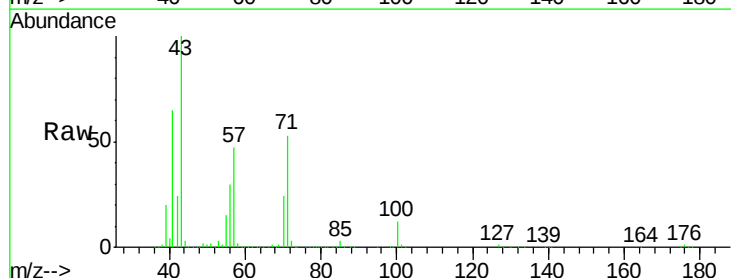
Manual Integrations
 APPROVED

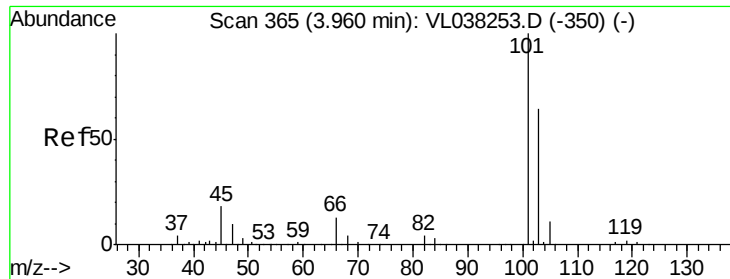
Reviewed By :Semsettin Yesilyurt 02/07/2022
 Supervised By :Mahesh Dadoda 02/07/2022



#10
 Heptane
 Concen: 8.969 ppbv
 RT: 8.08 min Scan# 1646
 Delta R.T. -0.04 min
 Lab File: VL038317.D
 Acq: 1 Feb 2022 10:56

Tgt Ion: 43 Resp: 1401239
 Ion Ratio Lower Upper
 43 100
 57 50.0 39.5 59.3



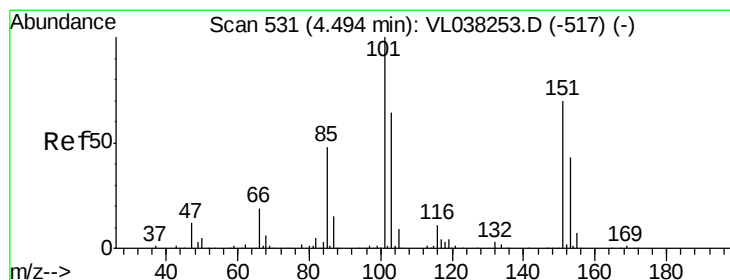
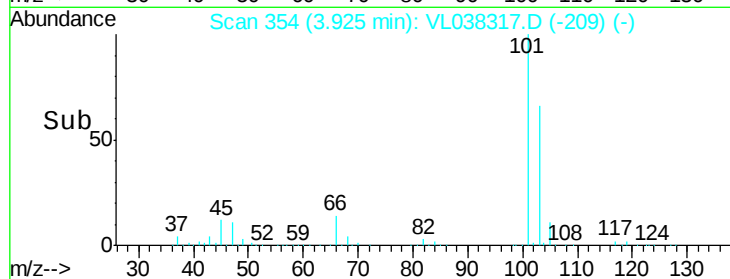
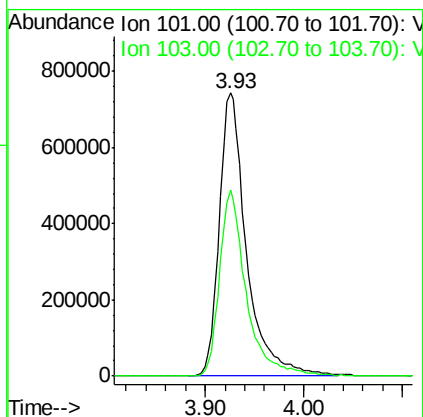
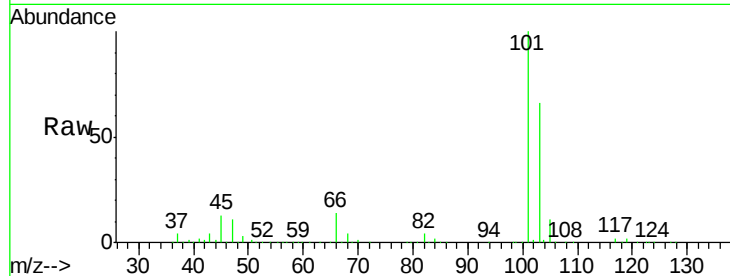


#11
 Trichlorofluoromethane
 Concen: 9.271 ppbv
 RT: 3.93
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 VSTDCCC010
 Acq: 1 Feb 2022 10:50

Tgt Ion:1
 Ion Ratio
 101 100
 103 65.

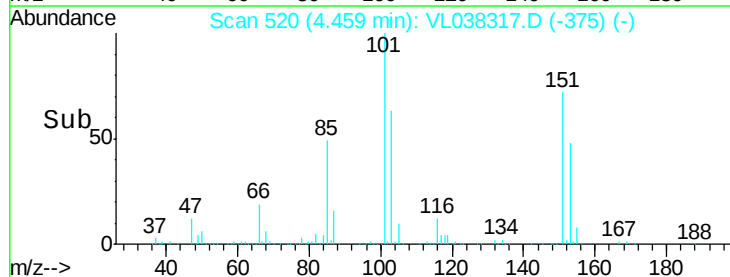
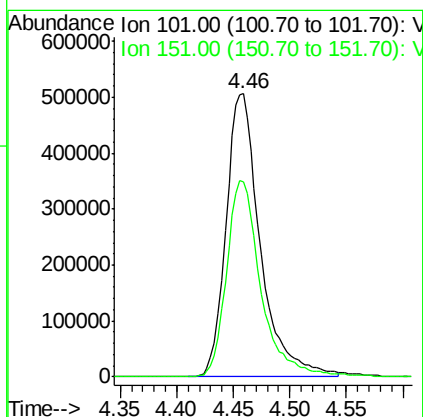
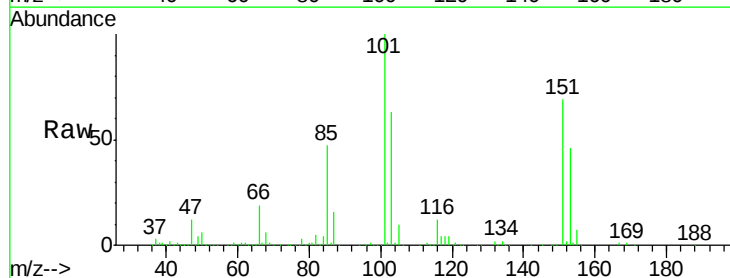
Manual Integrations
 APPROVED

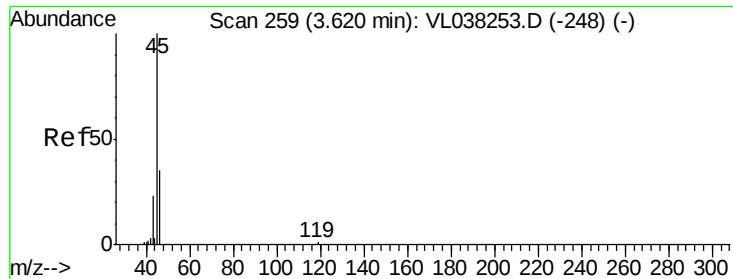
Reviewed By :Semsettin Yesilyurt 02/07/2022
 Supervised By :Mahesh Dadoda 02/07/2022



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.093 ppbv
 RT: 4.46 min Scan# 520
 Delta R.T. -0.04 min
 Lab File: VL038317.D
 Acq: 1 Feb 2022 10:56

Tgt Ion:101 Resp: 1068038
 Ion Ratio Lower Upper
 101 100
 151 69.8 55.3 82.9



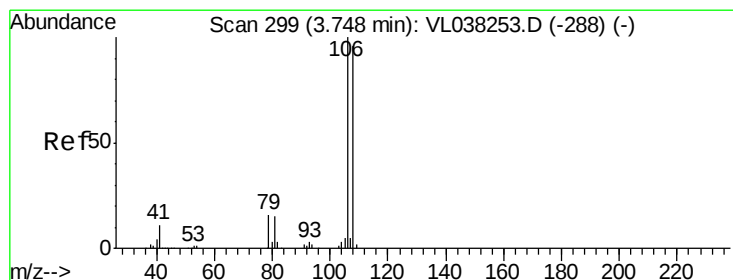
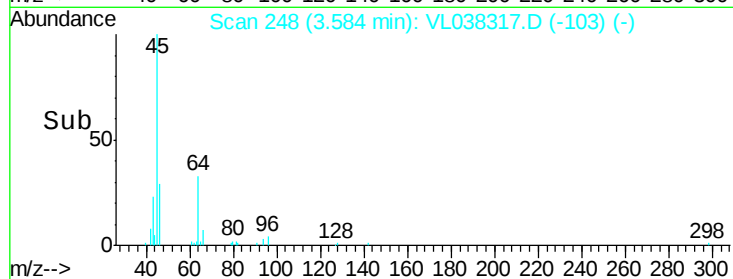
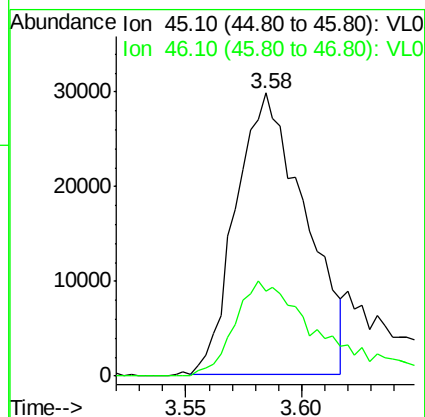
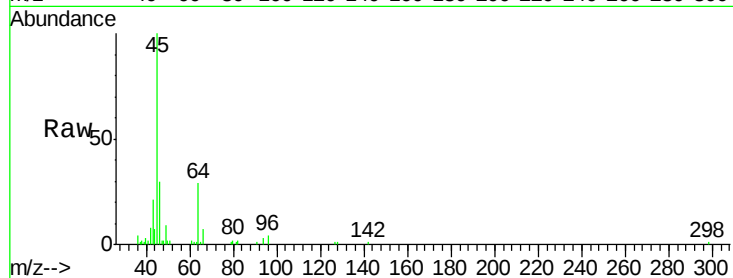


#13
Ethanol
Concen: 9.427 ppbv
RT: 3.58
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VSTDCCC010
Acq: 1 Feb 2022 10:58

Tgt Ion:
Ion Ratio
45 100
46 41.

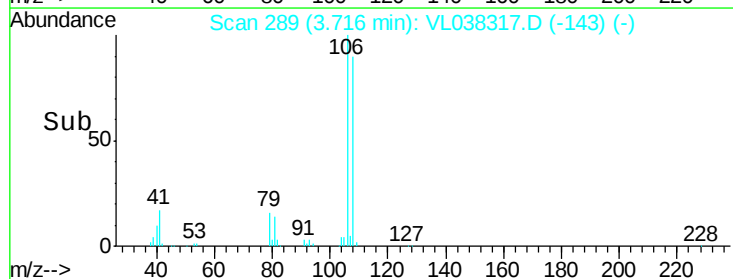
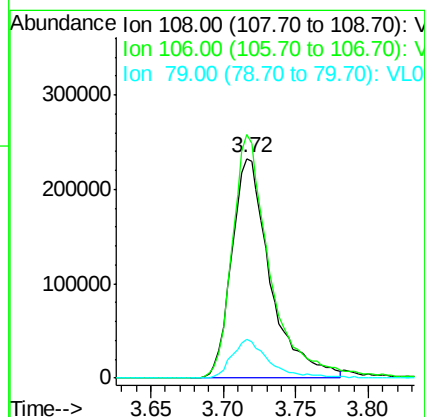
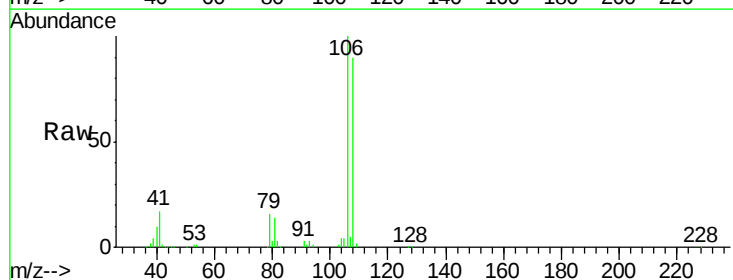
Manual Integrations
APPROVED

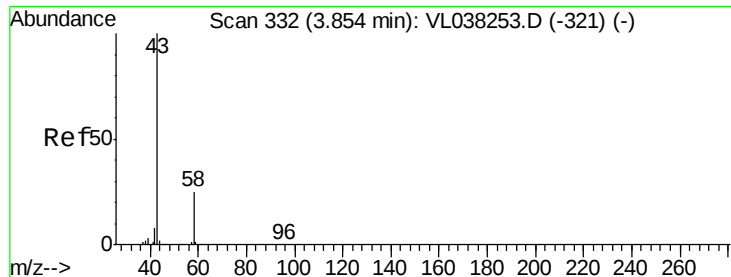
Reviewed By :Semsettin Yesilyurt 02/07/2022
Supervised By :Mahesh Dadoda 02/07/2022



#14
Bromoethene
Concen: 9.349 ppbv
RT: 3.72 min Scan# 289
Delta R.T. -0.03 min
Lab File: VL038317.D
Acq: 1 Feb 2022 10:56

Tgt Ion:108 Resp: 429117
Ion Ratio Lower Upper
108 100
106 109.9 86.4 129.6
79 17.8 14.1 21.1





#15

Acetone

Concen: 8.576 ppbv

RT: 3.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 1 Feb 2022 10:58

Tgt Ion:

Ion Ratio

43 100

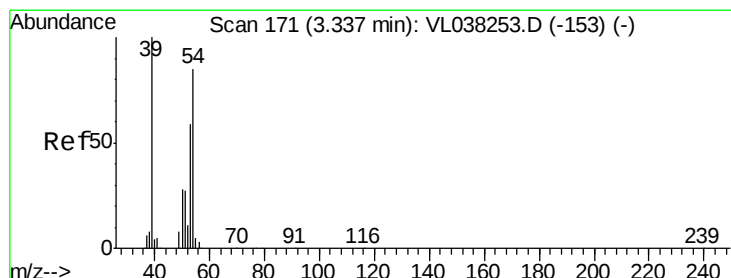
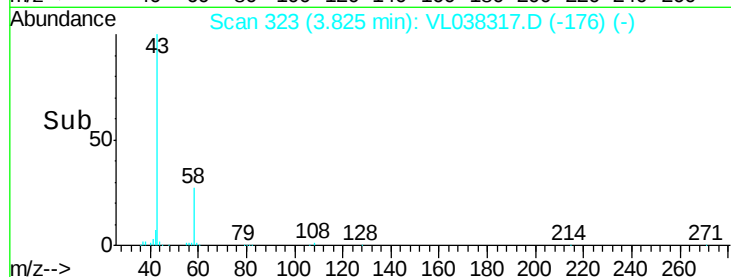
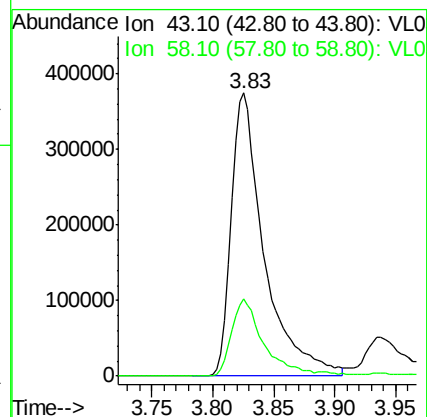
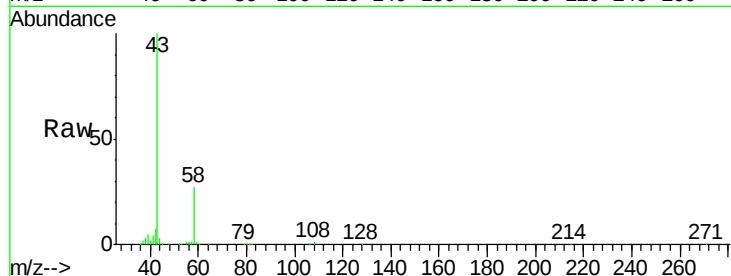
58 27.

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#16

1,3-Butadiene

Concen: 8.770 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.03 min

Lab File: VL038317.D

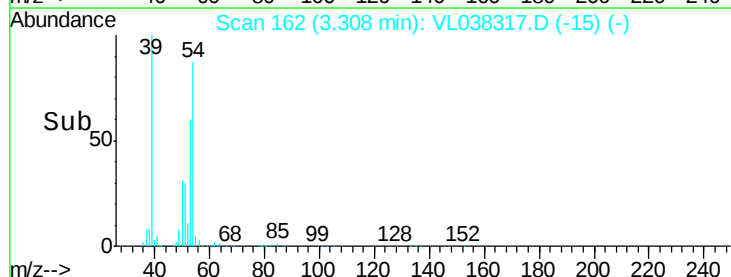
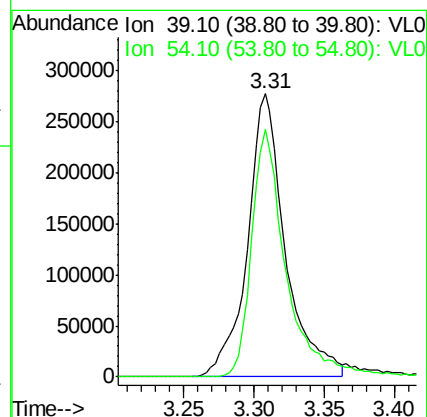
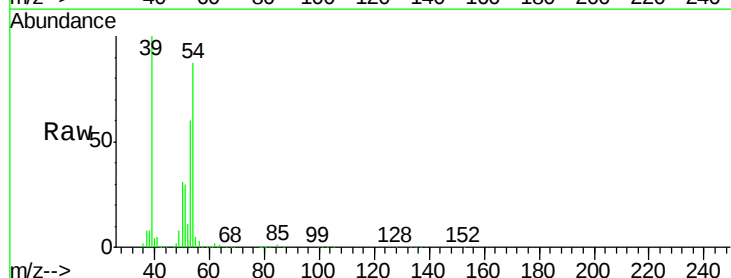
Acq: 1 Feb 2022 10:56

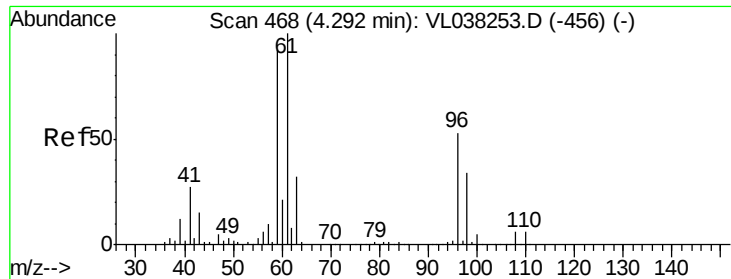
Tgt Ion: 39 Resp: 519814

Ion Ratio Lower Upper

39 100

54 81.0 62.6 94.0





#17

tert-Butyl alcohol

Concen: 8.935 ppbv

RT: 4.26 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 1 Feb 2022 10:56 VSTDCCC010

Tgt Ion:

Ion Ratio

59 100

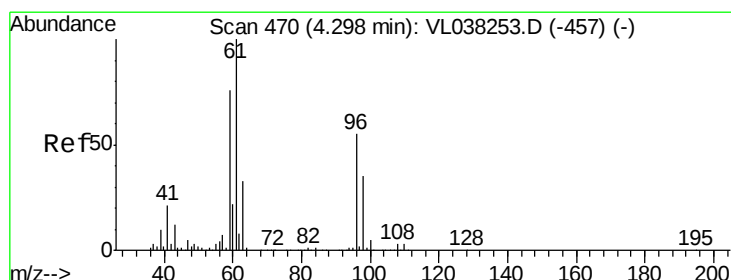
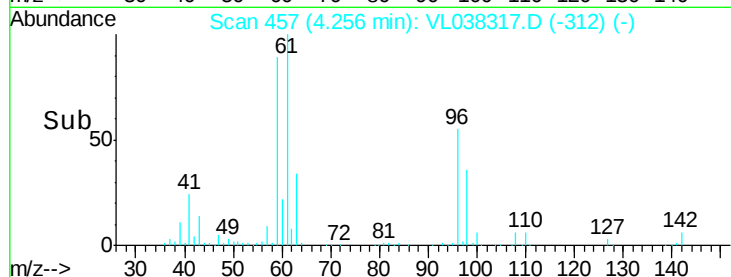
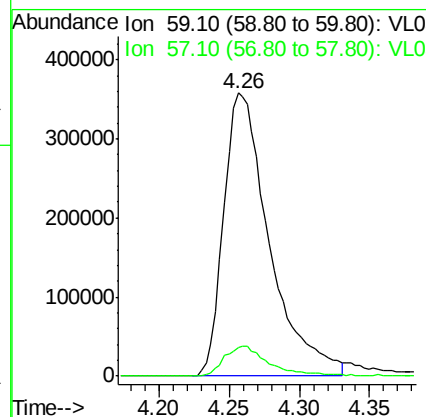
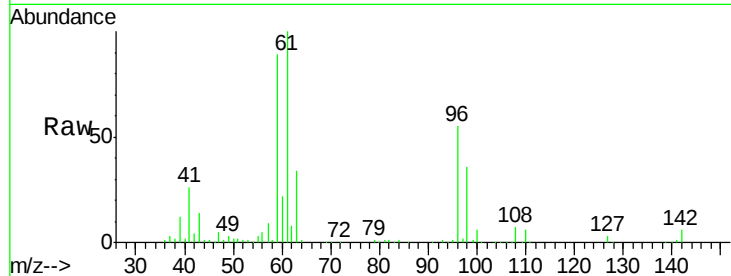
57 10.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#18

1,1-Dichloroethene

Concen: 8.963 ppbv

RT: 4.26 min Scan# 459

Delta R.T. -0.04 min

Lab File: VL038317.D

Acq: 1 Feb 2022 10:56

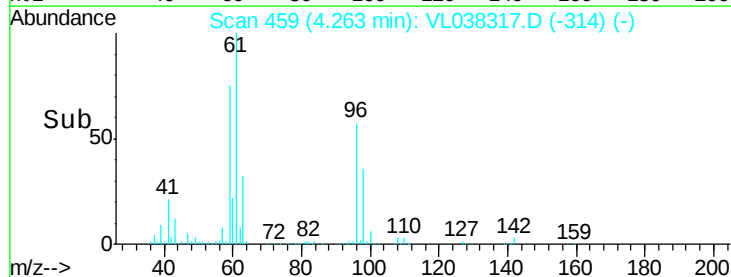
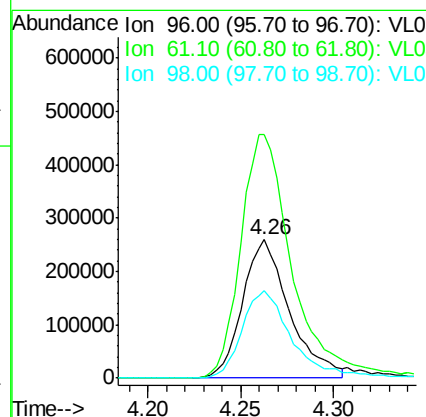
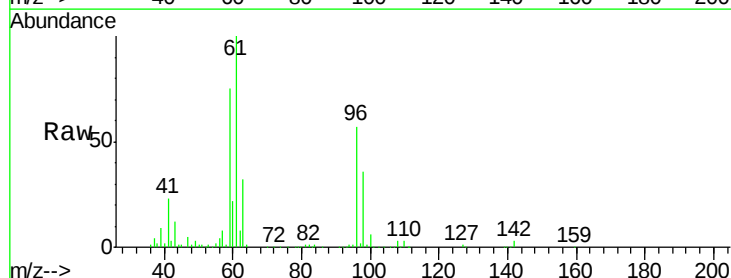
Tgt Ion: 96 Resp: 457846

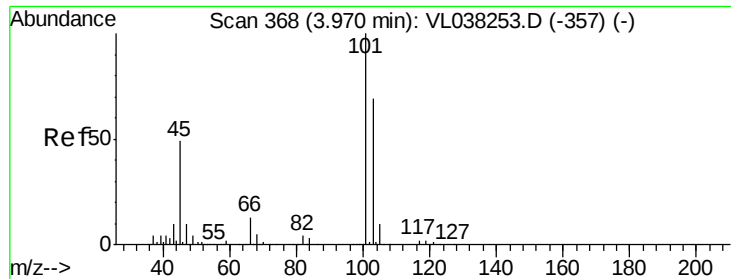
Ion Ratio Lower Upper

96 100

61 175.5 146.5 219.7

98 63.0 51.9 77.9





#19

Isopropyl Alcohol

Concen: 8.926 ppbv

RT: 3.94 Instrument :

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 1 Feb 2022 10:56 VSTDCCC010

Tgt Ion:

Ion Ratio

45 100

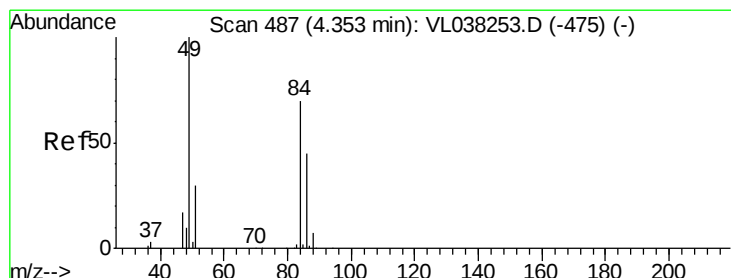
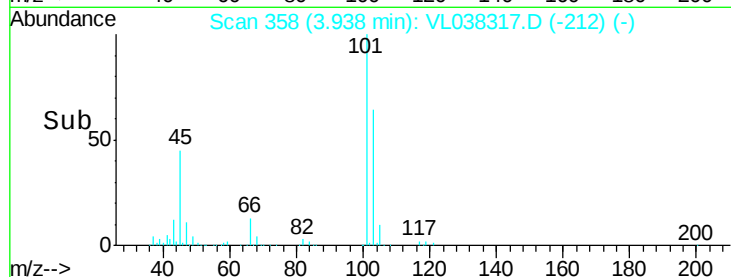
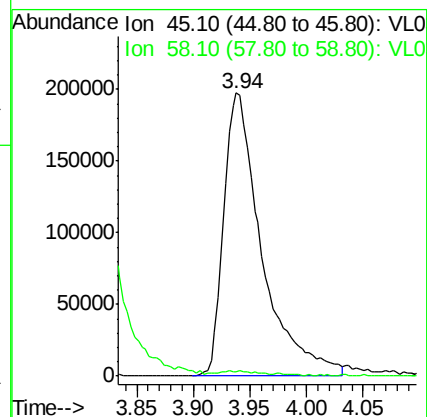
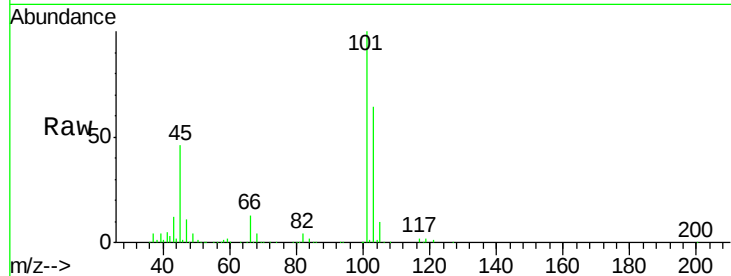
58 1.

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#20

Methylene Chloride

Concen: 8.085 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.04 min

Lab File: VL038317.D

Acq: 1 Feb 2022 10:56

Tgt Ion: 84 Resp: 388418

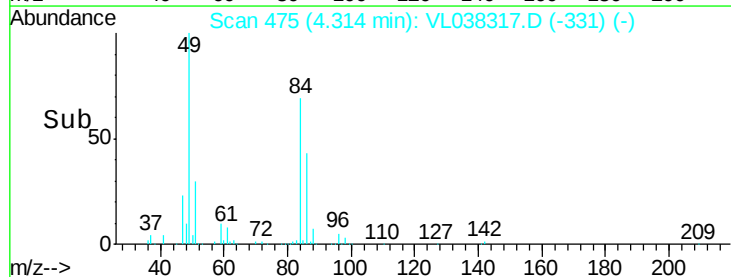
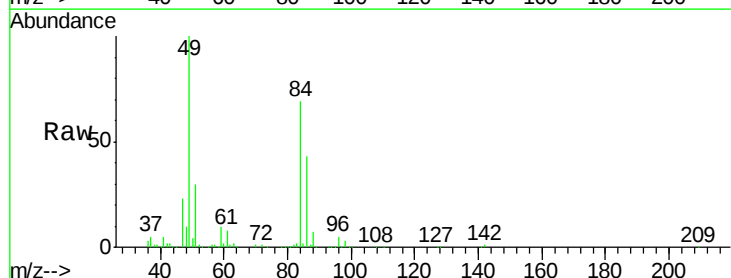
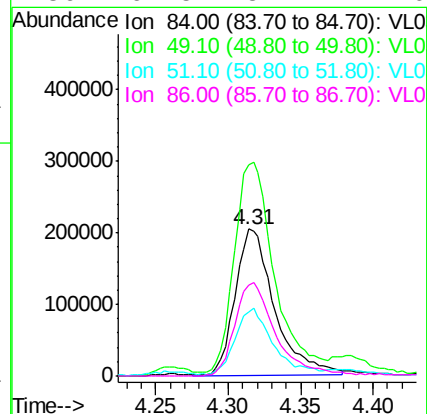
Ion Ratio Lower Upper

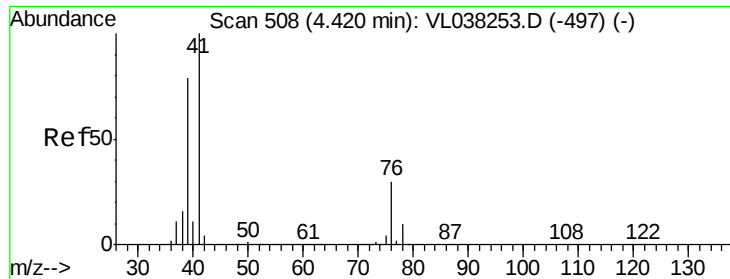
84 100

49 141.9 115.0 172.6

51 41.9 35.0 52.6

86 61.5 51.4 77.0



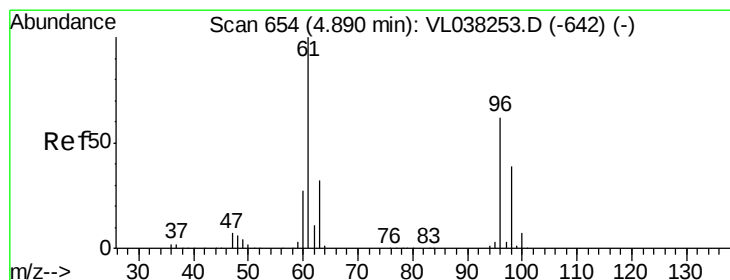
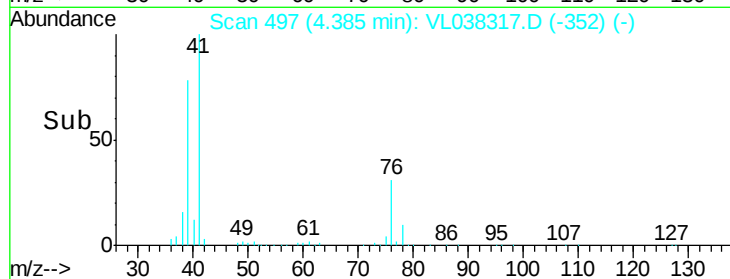
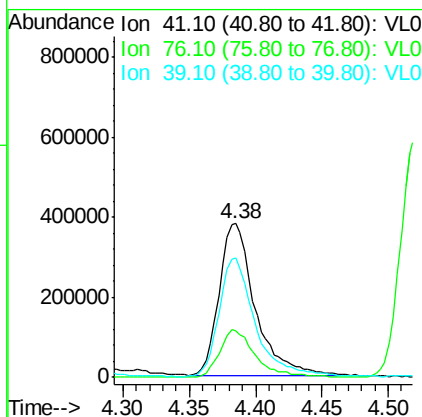
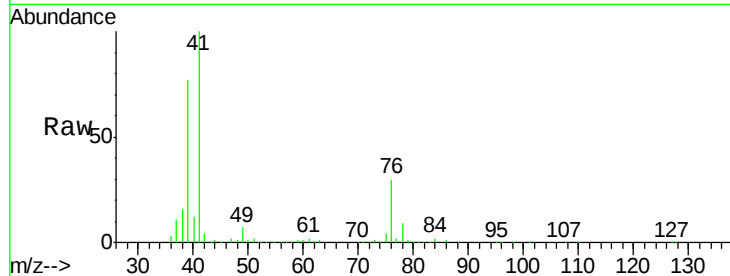


#21
 Allyl Chloride
 Concen: 9.803 ppbv
 RT: 4.38
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Feb 2022 10:50

Tgt Ion:
 Ion Ratio
 41 100
 76 31.
 39 79.

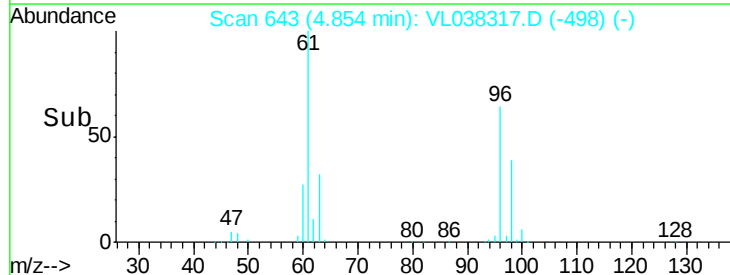
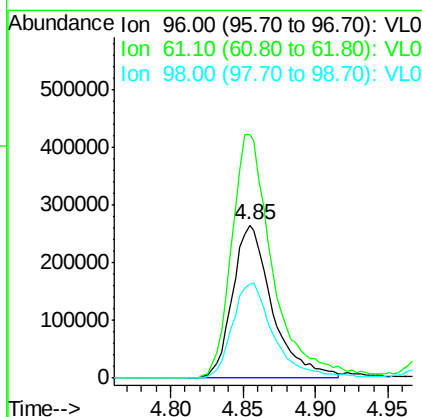
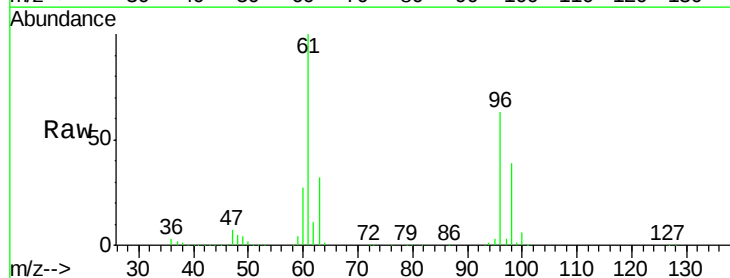
Manual Integrations
 APPROVED

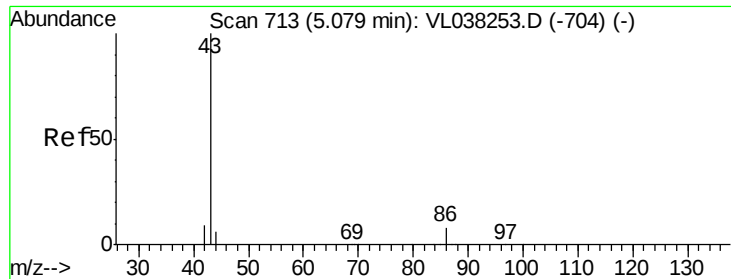
Reviewed By :Semsettin Yesilyurt 02/07/2022
 Supervised By :Mahesh Dadoda 02/07/2022



#22
 trans-1,2-Dichloroethene
 Concen: 9.595 ppbv
 RT: 4.85 min Scan# 643
 Delta R.T. -0.04 min
 Lab File: VL038317.D
 Acq: 1 Feb 2022 10:56

Tgt Ion: 96 Resp: 506400
 Ion Ratio Lower Upper
 96 100
 61 158.6 128.8 193.2
 98 61.4 49.8 74.8



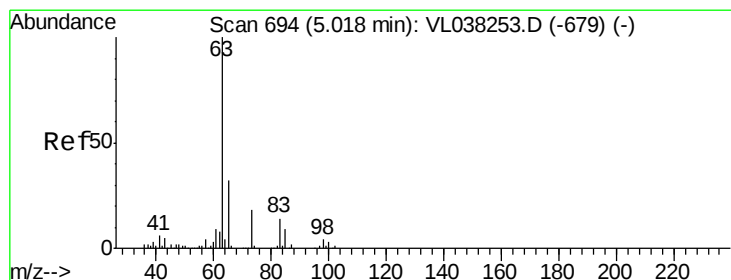
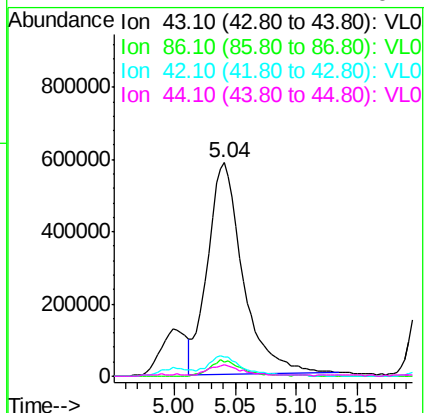
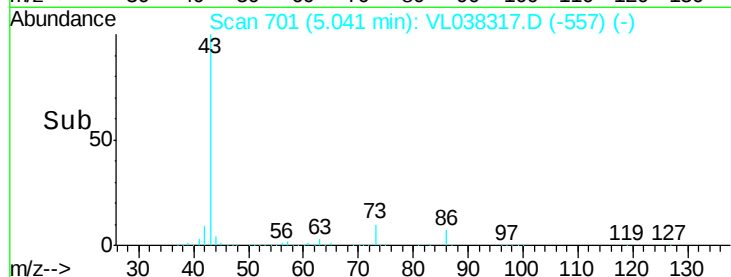
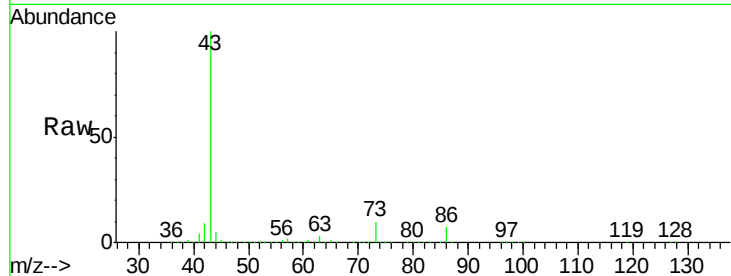


#23
 Vinyl Acetate
 Concen: 9.951 ppbv
 RT: 5.04
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 VSTDCCC010
 Acq: 1 Feb 2022 10:56

Tgt Ion:
 Ion Ratio
 43 100
 86 6.
 42 8.
 44 4.7 4.2 6.4

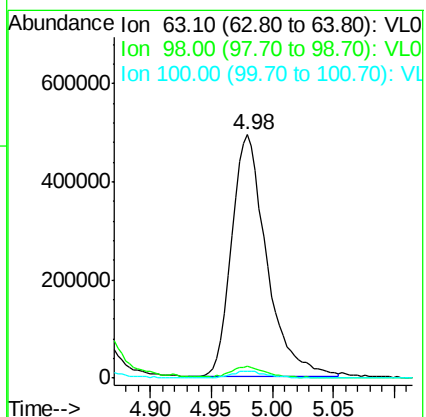
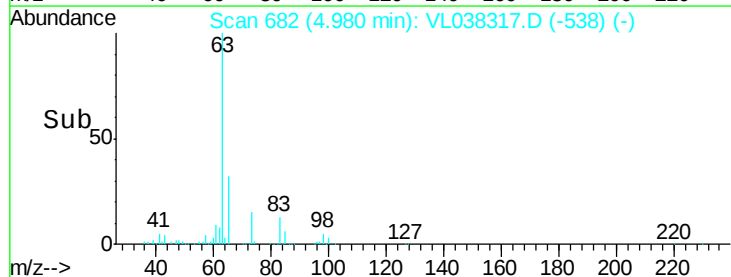
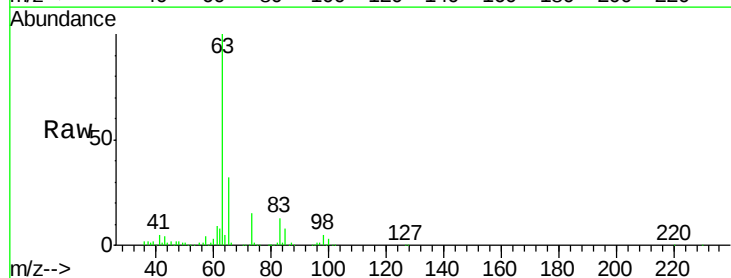
Manual Integrations APPROVED

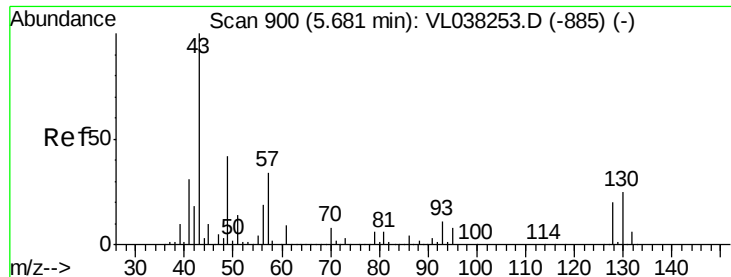
Reviewed By :Semsettin Yesilyurt 02/07/2022
 Supervised By :Mahesh Dadoda 02/07/2022



#24
 1,1-Dichloroethane
 Concen: 9.222 ppbv
 RT: 4.98 min Scan# 682
 Delta R.T. -0.04 min
 Lab File: VL038317.D
 Acq: 1 Feb 2022 10:56

Tgt Ion: 63 Resp: 986663
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 2.6 1.3 3.9





#25

Ethyl Acetate

Concen: 9.452 ppbv

RT: 5.64

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 1 Feb 2022 10:50

Tgt Ion:

Ion Ratio

43 100

45 9.

61 9.

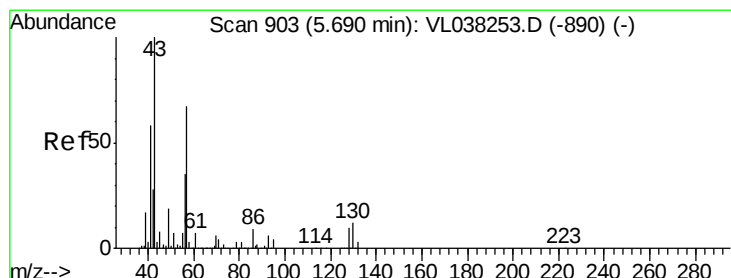
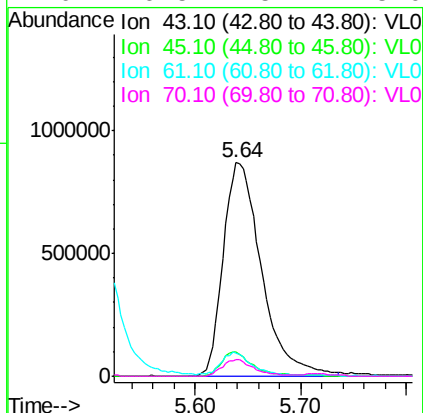
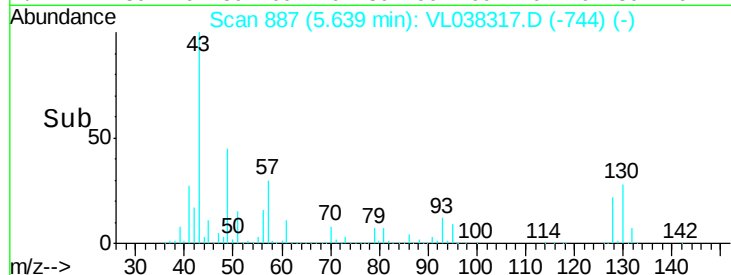
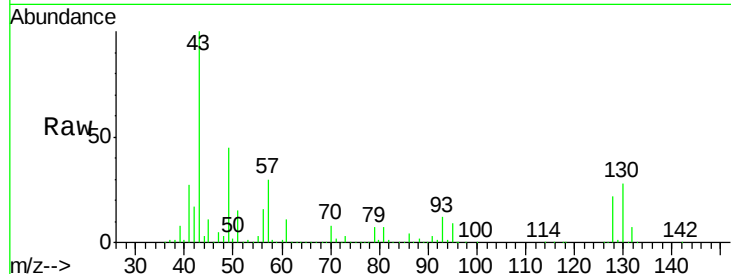
70 6.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/07/2022

Supervised By :Mahesh Dadoda 02/07/2022



#26

Hexane

Concen: 9.321 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.04 min

Lab File: VL038317.D

Acq: 1 Feb 2022 10:56

Tgt Ion: 57 Resp: 1002670

Ion Ratio Lower Upper

57 100

41 88.4 72.8 109.2

43 221.6 177.0 265.6

56 52.9 43.3 64.9

