

Data File : VL036342.D

Acq On : 11 Feb 2021 9:52

Operator : SY/AP

Sample : VSTDCCC010

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Feb 11 17:09:56 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL021021AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021

QLast Update : Wed Feb 10 16:04:02 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1646201	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3742243	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4394244	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2994698	8.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	2242088	9.126	ppbv	98
3) Chlorodifluoromethane	2.98	51	1829898	8.946	ppbv	100
4) Chloromethane	3.13	50	924377	9.354	ppbv	94
5) Vinyl Chloride	3.24	62	842596	9.157	ppbv	98
6) Bromomethane	3.46	94	484927	8.866	ppbv	97
7) Chloroethane	3.54	64	306565	9.383	ppbv	93
8) Dichlorotetrafluoroethane	3.17	85	2074830	9.286	ppbv	99
9) Propene	3.00	41	810093	10.623	ppbv	98
10) Heptane	8.10	43	2151905	9.575	ppbv	98
11) Trichlorofluoromethane	3.93	101	2190954	9.107	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1364638	9.157	ppbv	99
13) Ethanol	3.59	45	101495	7.086	ppbv	100
14) Bromoethene	3.72	108	553127	8.868	ppbv	95
15) Acetone	3.84	43	1676164	8.330	ppbv	100
16) 1,3-Butadiene	3.31	39	866630	9.006	ppbv	99
17) tert-Butyl alcohol	4.28	59	1364884	8.738	ppbv	100
18) 1,1-Dichloroethene	4.28	96	586158	8.655	ppbv	99
19) Isopropyl Alcohol	3.96	45	933468	8.373	ppbv #	98
20) Methylene Chloride	4.33	84	511509	7.879	ppbv	95
21) Allyl Chloride	4.39	41	1010303	9.018	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	580141	9.430	ppbv	97
23) Vinyl Acetate	5.06	43	2079175	8.788	ppbv	97
24) 1,1-Dichloroethane	5.00	63	1535783	8.777	ppbv	99
25) Ethyl Acetate	5.66	43	3563354	9.173	ppbv	100
26) Hexane	5.67	57	1444252	9.048	ppbv	99
27) Carbon Disulfide	4.53	76	1507493	10.276	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1971587	9.456	ppbv	100
29) Chloroform	5.74	83	2333968	9.076	ppbv	100
30) Cyclohexane	7.11	84	1203304	9.065	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1470180	9.309	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2242088	9.326	ppbv	100
34) 2-Butanone	5.23	43	2255339	9.071	ppbv	99
35) Carbon Tetrachloride	7.00	117	2310047	9.210	ppbv	99
36) Benzene	6.88	78	3028985	9.528	ppbv	96
37) 1,2-Dichloroethane	6.29	62	1832829	9.325	ppbv	100
38) Trichloroethene	7.82	130	1010972	8.877	ppbv	96
39) 1,2-Dichloropropane	7.60	63	1205969	9.339	ppbv	98
40) 1,4-Dioxane	7.81	88	143662	3.211	ppbv #	23
41) Tetrahydrofuran	6.03	42	1319247	9.508	ppbv	100
42) Bromodichloromethane	7.78	83	2483234	9.434	ppbv	96
43) Methyl Methacrylate	8.00	69	1350609	10.074	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	5204422	9.004	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1394353	10.782	ppbv	99
46) cis-1,3-Dichloropropene	8.69	75	1703565	10.370	ppbv	97
47) 1,1,2-Trichloroethane	9.46	97	1188870	8.996	ppbv	98
48) Dibromochloromethane	10.29	129	1949855	9.888	ppbv	100
49) Bromoform	13.03	173	1558071	9.773	ppbv	99
50) 4-Methyl-2-Pentanone	8.72	43	3470630	9.402	ppbv	100
51) 2-Hexanone	10.11	43	2852361	10.170	ppbv #	98
52) Tetrachloroethene	11.20	164	971278	8.346	ppbv	98
53) Toluene	9.79	91	3315767	9.630	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1747871	9.152	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	1432228	7.086	ppbv #	62
57) Chlorobenzene	12.13	112	2369620	6.980	ppbv	96
58) Ethyl Benzene	12.69	91	4475062	7.437	ppbv	98
59) m/p-Xylene	12.98	91	3832030	7.250	ppbv #	34
60) o-Xylene	13.68	91	3563386	7.052	ppbv	100
61) Styrene	13.51	104	2482707	7.927	ppbv	99
62) Isopropylbenzene	14.65	105	5255489	6.938	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	2496202	6.260	ppbv	99
64) n-propylbenzene	15.55	120	1354823	7.268	ppbv	100
65) tert-Butylbenzene	16.73	119	4446294	6.861	ppbv	99
66) Benzyl Chloride	16.97	91	1444768	8.200	ppbv	100
67) sec-Butylbenzene	17.28	105	6307425	6.748	ppbv	99
69) p-Isopropyltoluene	17.64	119	5173491	7.163	ppbv	100
70) n-Butylbenzene	18.54	91	5569705	7.191	ppbv	100
71) 2-Chlorotoluene	15.44	91	4083967	7.033	ppbv	99
72) 4-Ethyltoluene	15.82	105	4091338	7.275	ppbv	100
73) 1,3,5-Trimethylbenzene	15.98	105	3829604	7.025	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	3870201	6.954	ppbv	96
75) 1,3-Dichlorobenzene	16.98	146	2031411	6.725	ppbv	98
76) 1,4-Dichlorobenzene	17.12	146	2039870	6.503	ppbv	96
77) 1,2-Dichlorobenzene	17.80	146	2030536	6.776	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	1630883	6.661	ppbv	99
79) Naphthalene	22.18	128	1381102	4.186	ppbv	97
80) Naphthalene,2-methyl-	24.97	142	457646	7.492	ppbv	100
81) 1,2,4-Trichlorobenzene	21.91	180	825735	4.102	ppbv #	10

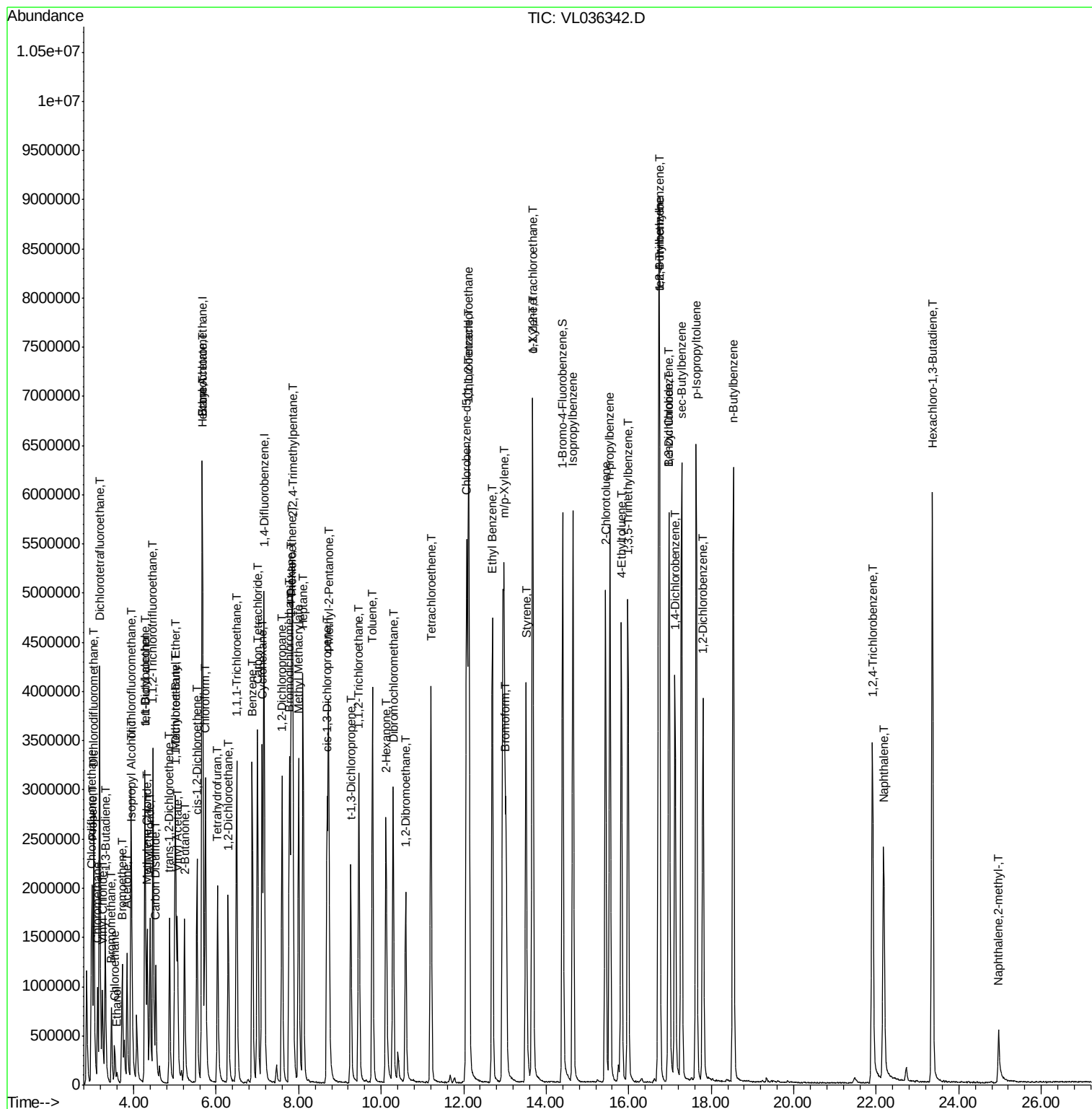
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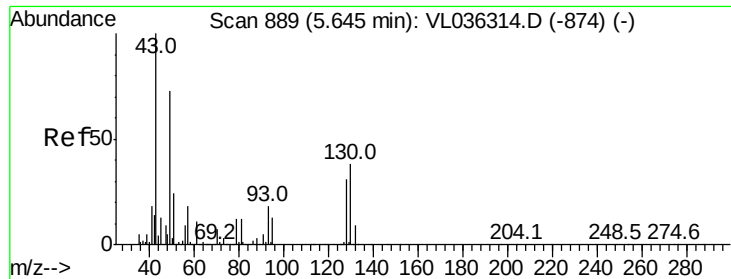
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

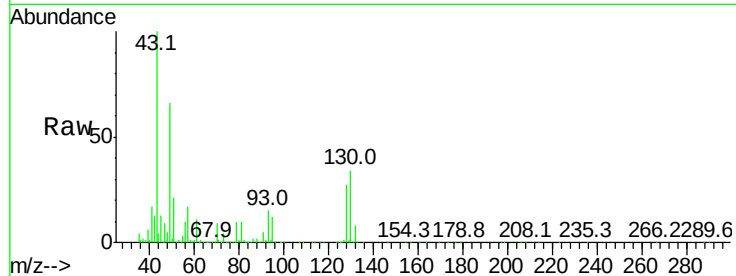
Tgt Ion: 49 Resp: 1646201

Ion Ratio Lower Upper

49 100

128 43.3 20.8 62.5

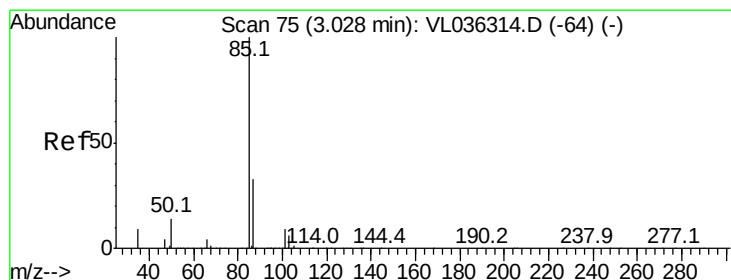
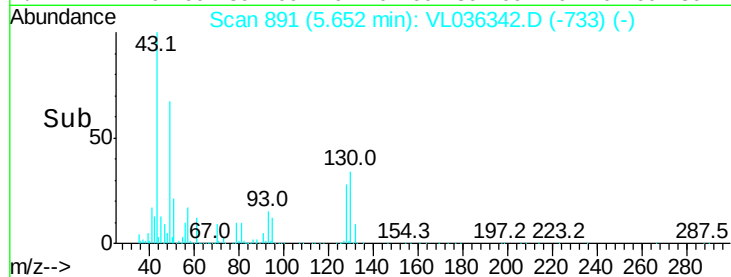
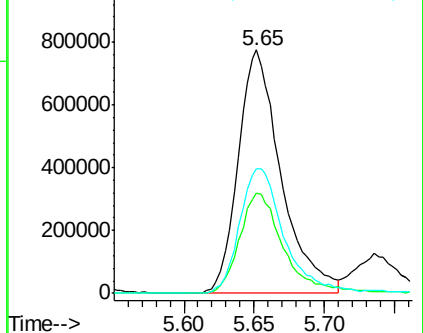
130 54.7 26.7 80.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 9.126 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL036342.D

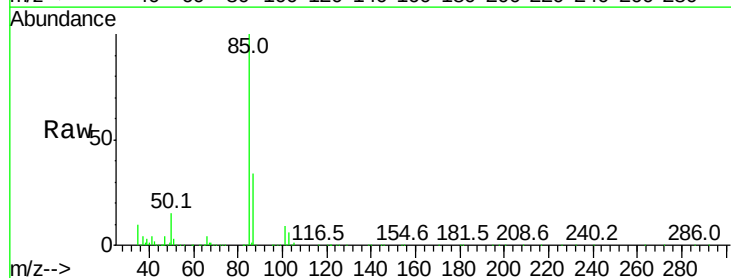
Acq: 11 Feb 2021 9:52

Tgt Ion: 85 Resp: 2242088

Ion Ratio Lower Upper

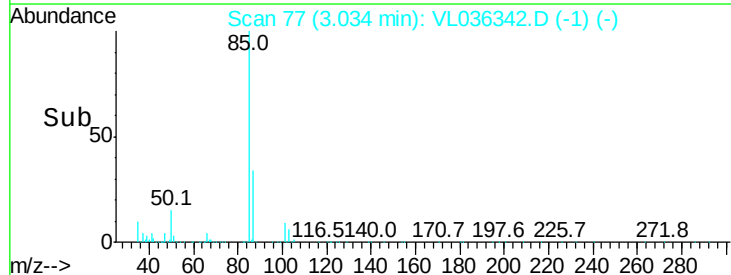
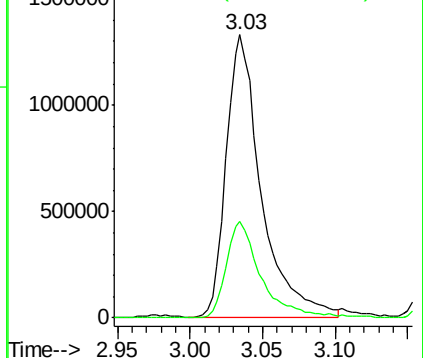
85 100

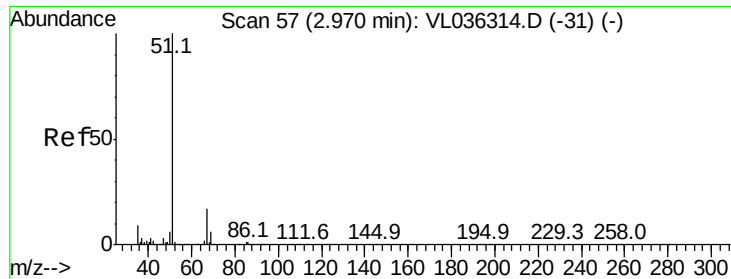
87 34.1 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.946 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

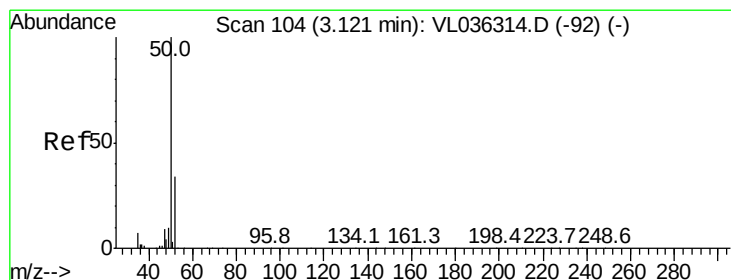
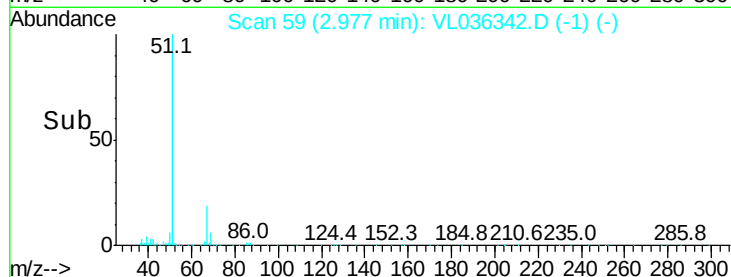
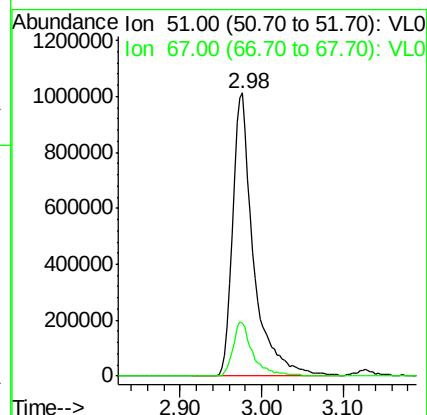
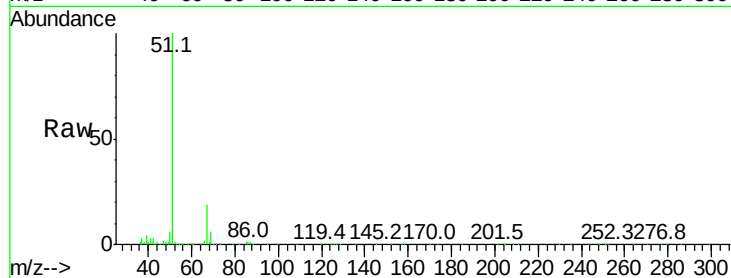
VSTDCCC010EC

Tgt Ion: 51 Resp: 1829898

Ion Ratio Lower Upper

51 100

67 18.6 14.7 22.1



#4

Chloromethane

Concen: 9.354 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.01 min

Lab File: VL036342.D

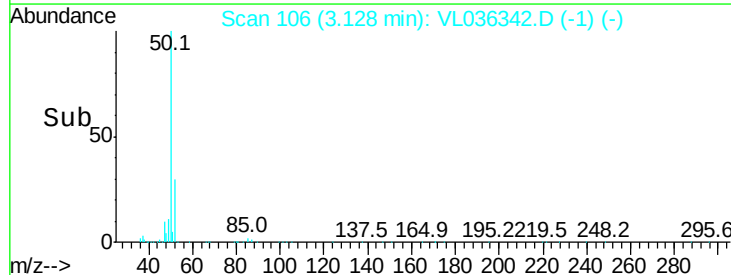
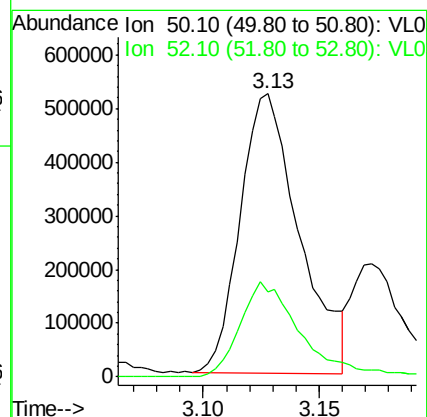
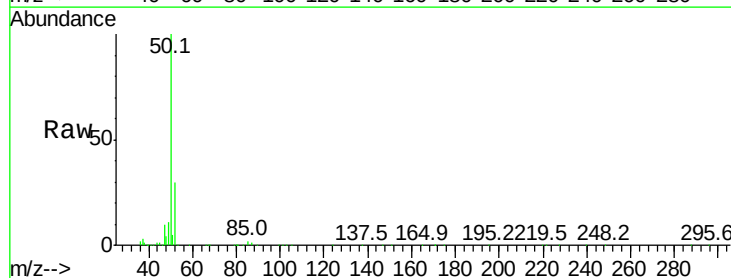
Acq: 11 Feb 2021 9:52

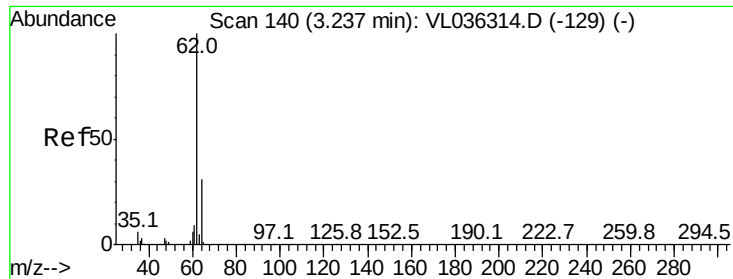
Tgt Ion: 50 Resp: 924377

Ion Ratio Lower Upper

50 100

52 30.1 27.0 40.4





#5

Vinyl Chloride

Concen: 9.157 ppbv

RT: 3.24 min Scan# 142

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

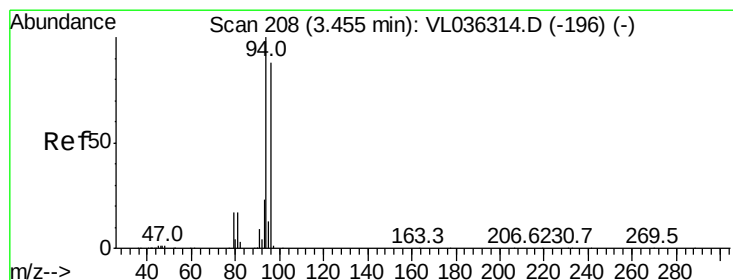
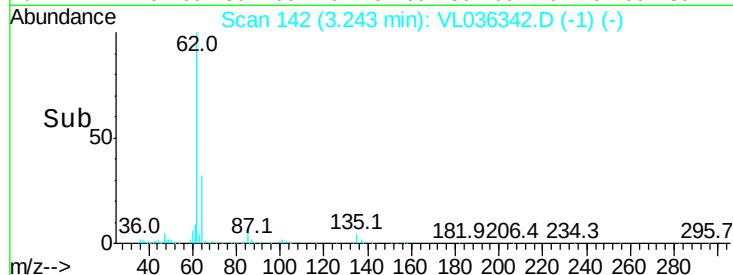
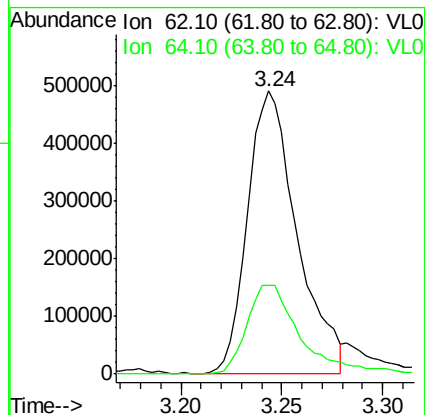
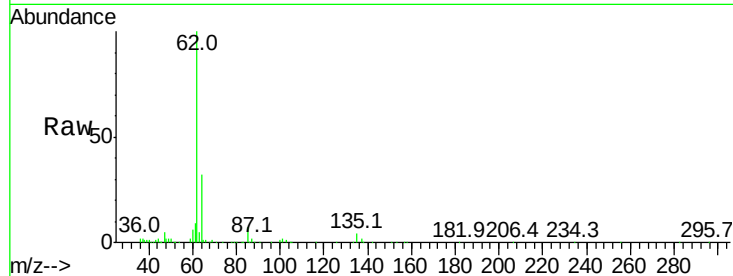
VSTDCCC010EC

Tgt Ion: 62 Resp: 842596

Ion Ratio Lower Upper

62 100

64 31.7 24.4 36.6



#6

Bromomethane

Concen: 8.866 ppbv

RT: 3.46 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL036342.D

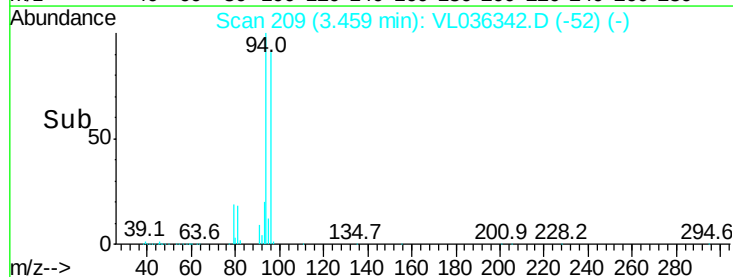
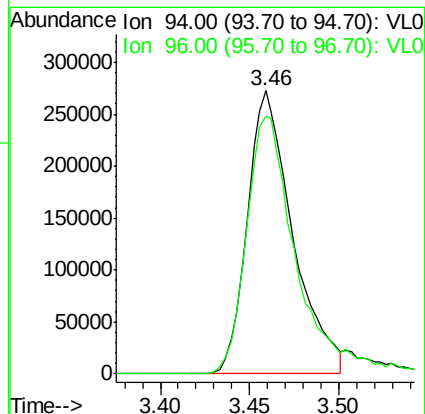
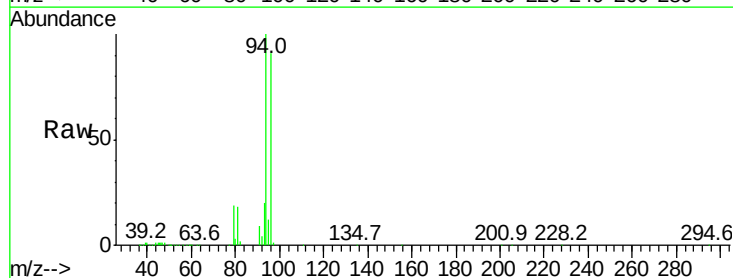
Acq: 11 Feb 2021 9:52

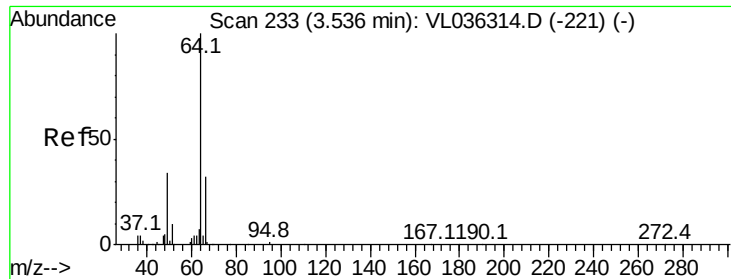
Tgt Ion: 94 Resp: 484927

Ion Ratio Lower Upper

94 100

96 90.9 70.8 106.2





#7

Chloroethane

Concen: 9.383 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

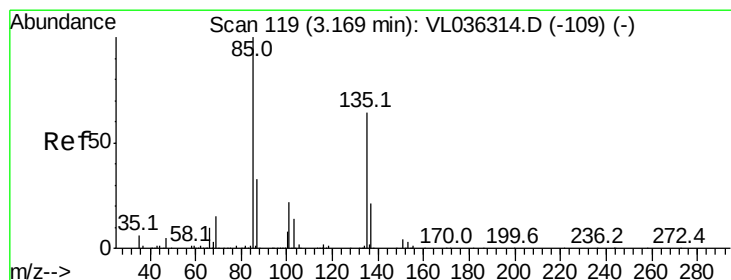
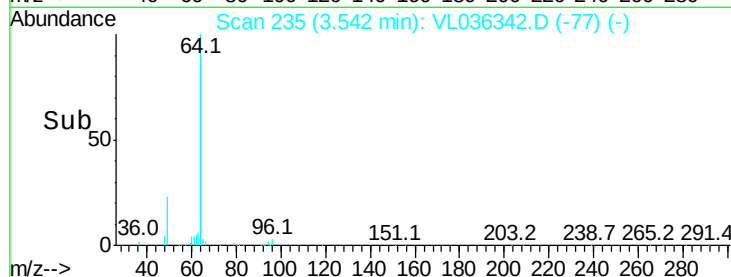
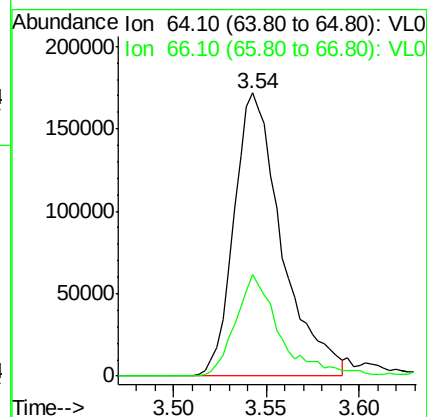
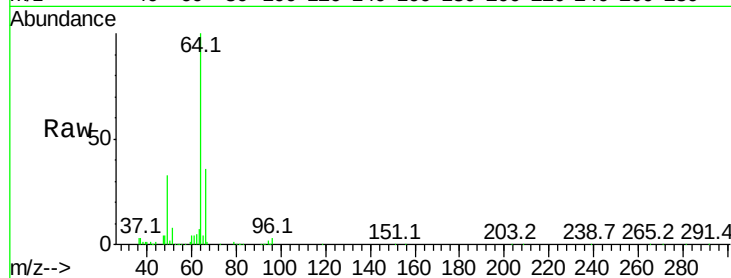
VSTDCCC010EC

Tgt Ion: 64 Resp: 306565

Ion Ratio Lower Upper

64 100

66 35.7 25.6 38.4



#8

Dichlorotetrafluoroethane

Concen: 9.286 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL036342.D

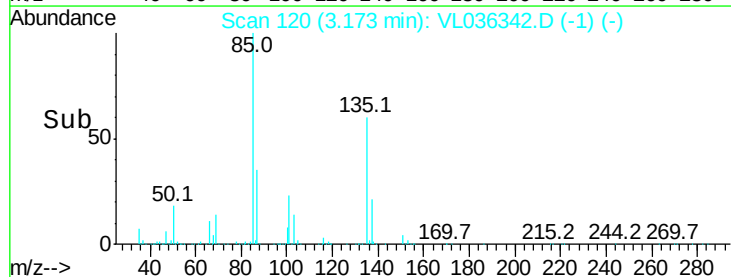
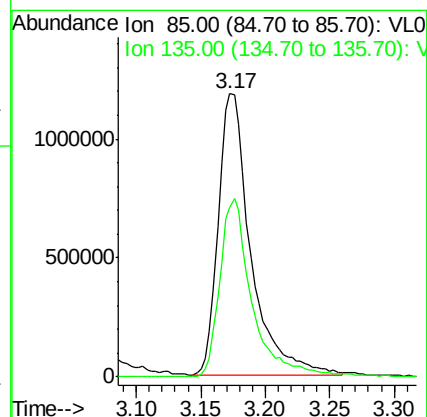
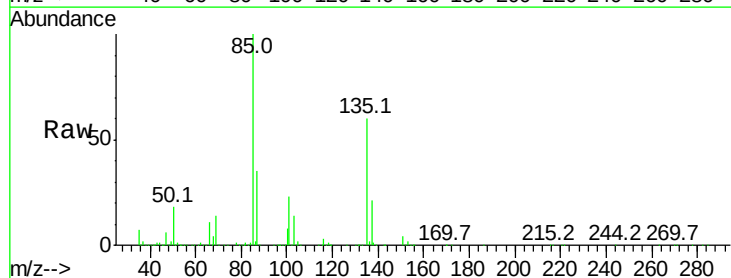
Acq: 11 Feb 2021 9:52

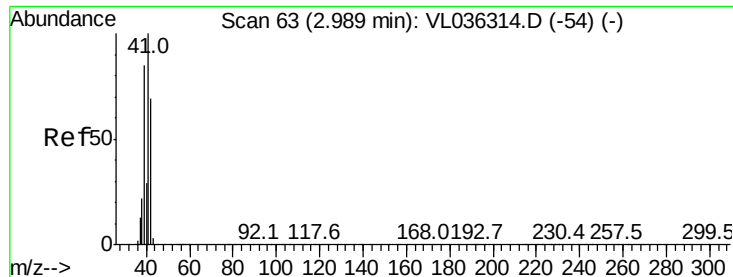
Tgt Ion: 85 Resp: 2074830

Ion Ratio Lower Upper

85 100

135 63.4 51.1 76.7





#9

Propene

Concen: 10.623 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

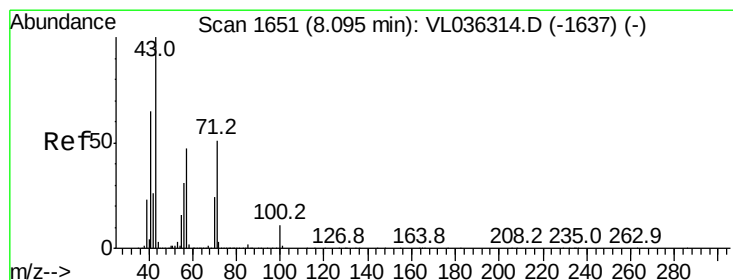
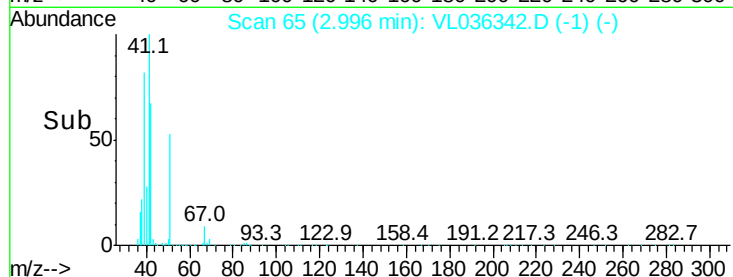
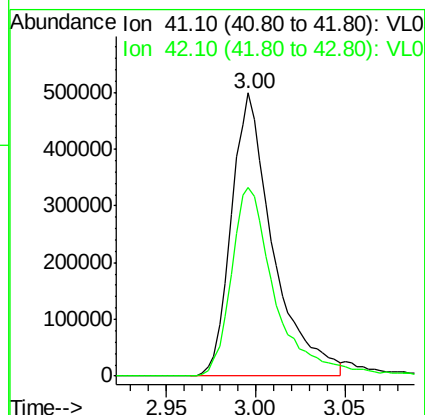
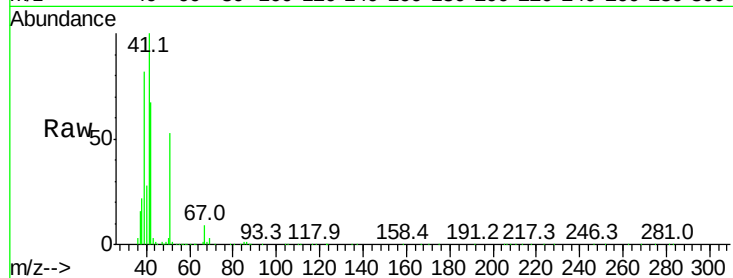
VSTDCCC010EC

Tgt Ion: 41 Resp: 810093

Ion Ratio Lower Upper

41 100

42 71.6 56.2 84.2



#10

Heptane

Concen: 9.575 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VL036342.D

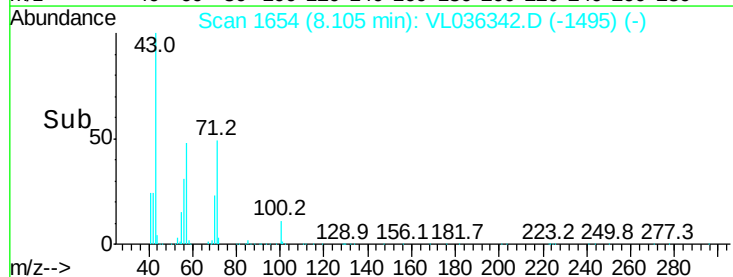
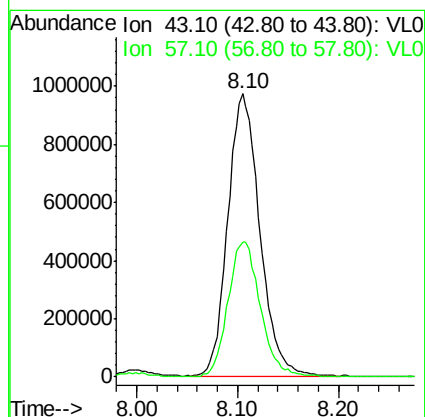
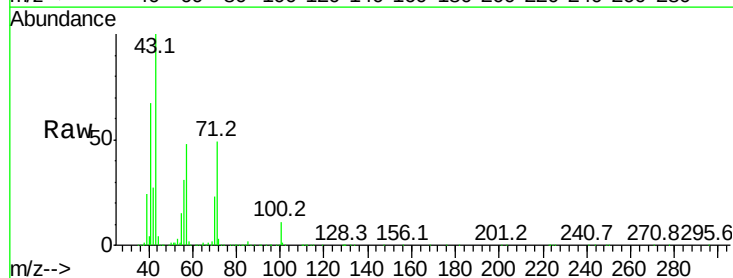
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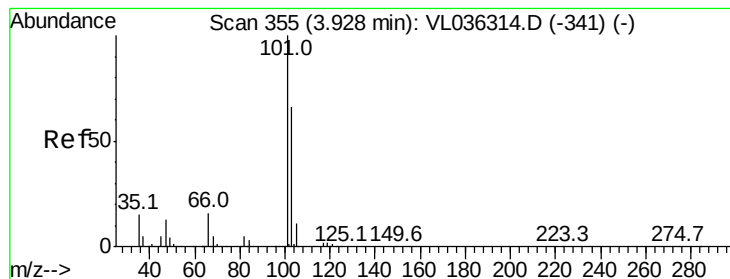
Tgt Ion: 43 Resp: 2151905

Ion Ratio Lower Upper

43 100

57 48.0 39.4 59.2





#11

Trichlorofluoromethane

Concen: 9.107 ppbv

RT: 3.93 min Scan# 357

Delta R.T. 0.01 min

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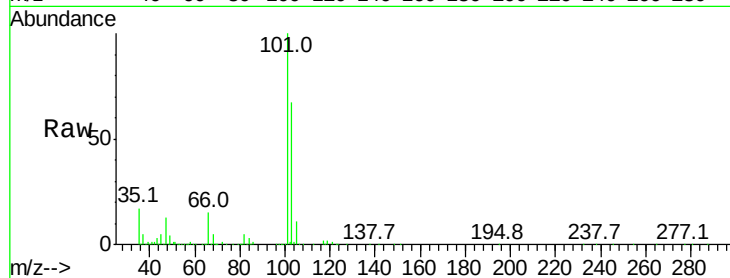
VSTDCCC010EC

Tgt Ion:101 Resp: 2190954

Ion Ratio Lower Upper

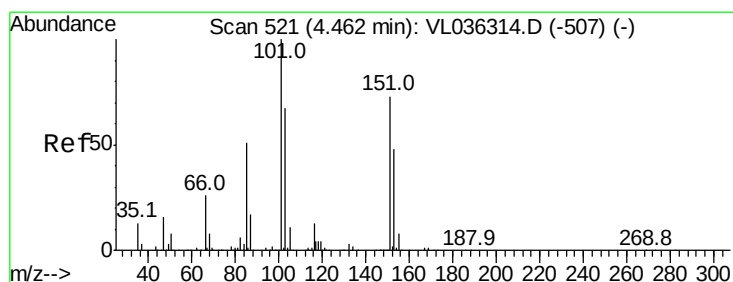
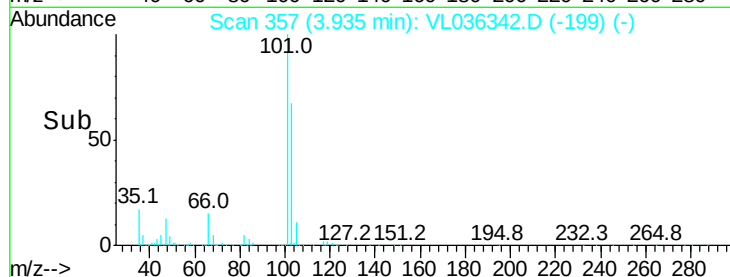
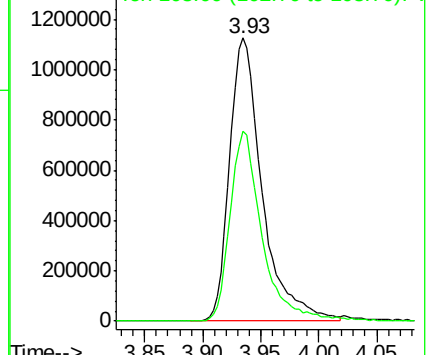
101 100

103 67.3 52.9 79.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.157 ppbv

RT: 4.47 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL036342.D

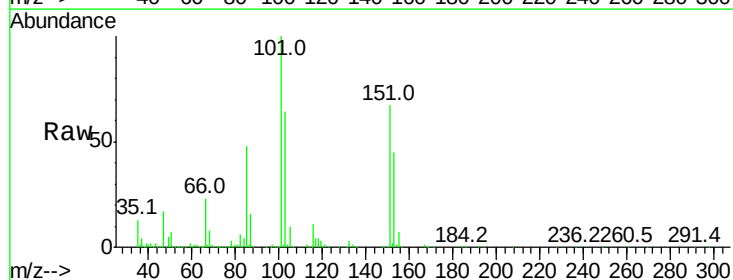
Acq: 11 Feb 2021 9:52

Tgt Ion:101 Resp: 1364638

Ion Ratio Lower Upper

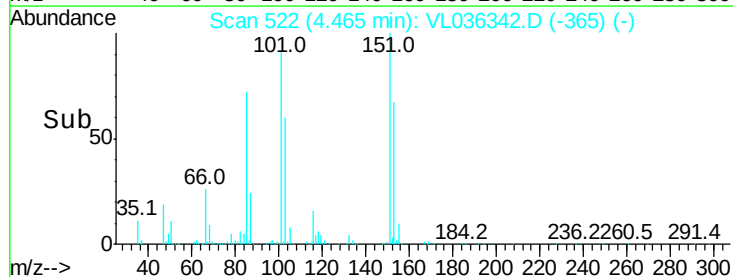
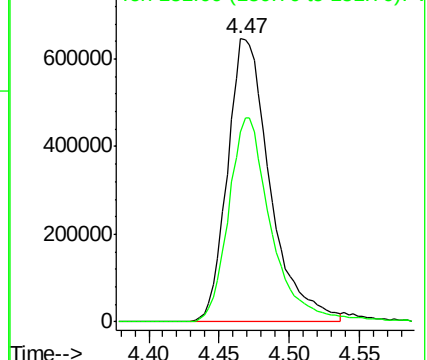
101 100

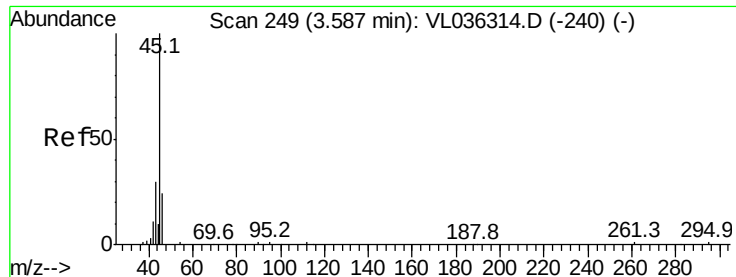
151 72.3 58.2 87.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

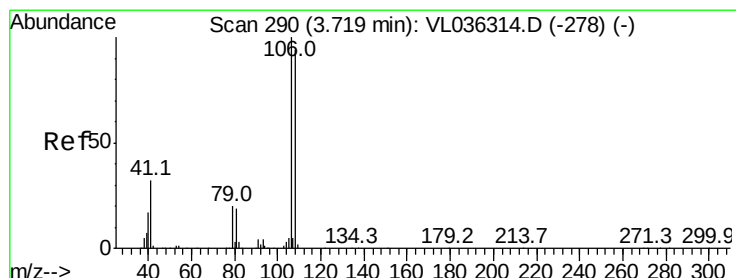
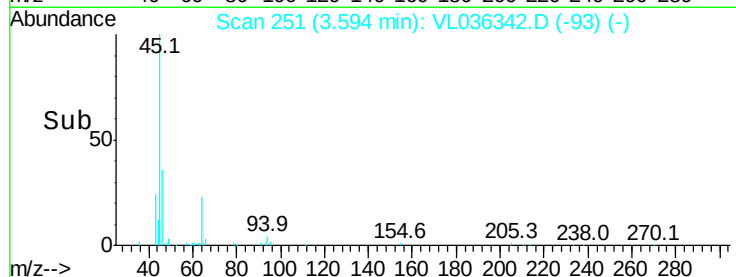
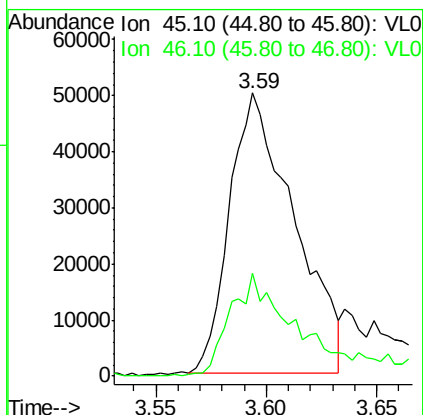
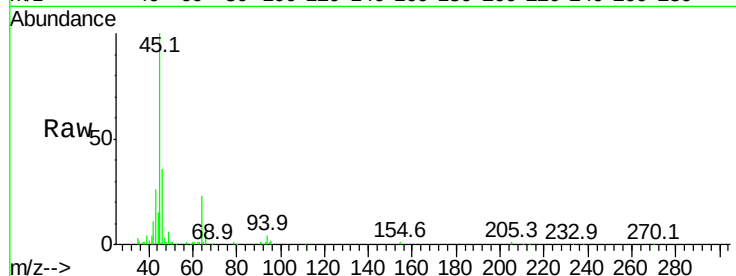




#13
Ethanol
Concen: 7.086 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.01 min
Lab File: VL036342.D
Acq: 11 Feb 2021 9:52

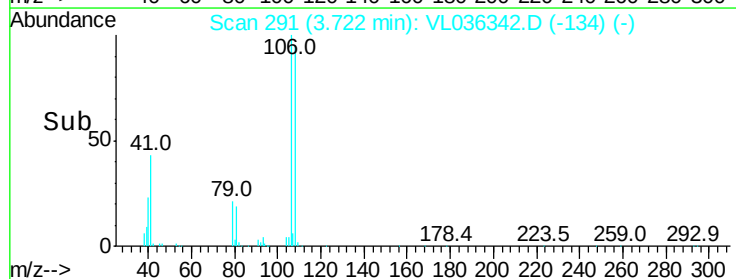
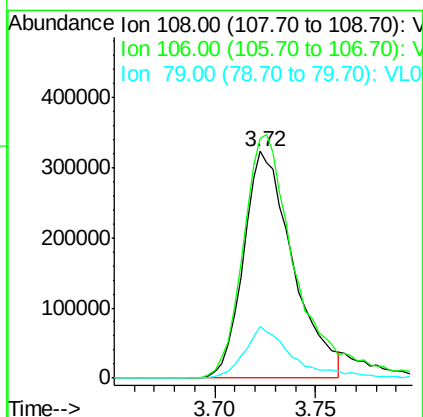
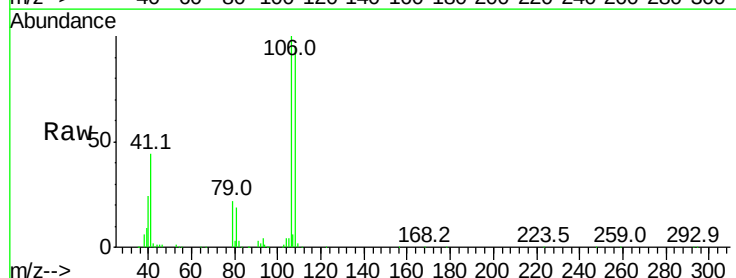
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

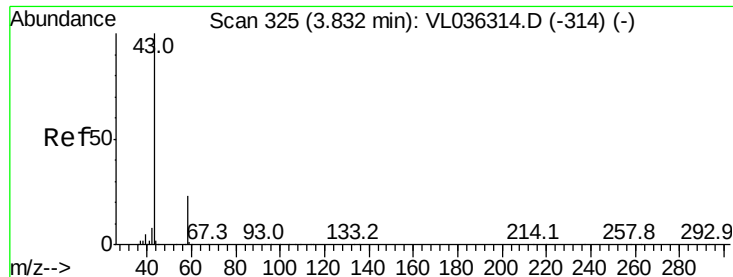
Tgt Ion: 45 Resp: 101495
Ion Ratio Lower Upper
45 100
46 43.9 17.7 70.7



#14
Bromoethene
Concen: 8.868 ppbv
RT: 3.72 min Scan# 291
Delta R.T. 0.00 min
Lab File: VL036342.D
Acq: 11 Feb 2021 9:52

Tgt Ion: 108 Resp: 553127
Ion Ratio Lower Upper
108 100
106 117.4 89.8 134.8
79 23.0 17.1 25.7





#15

Acetone

Concen: 8.330 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

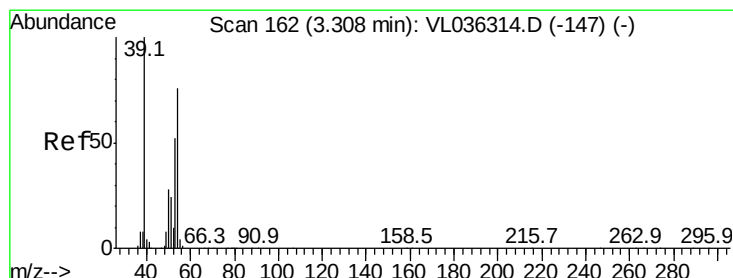
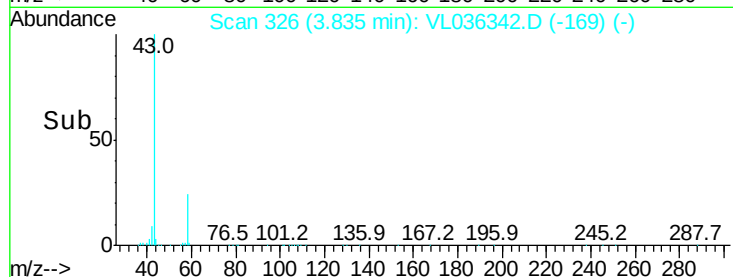
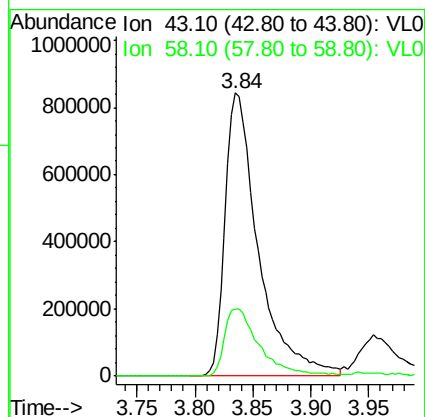
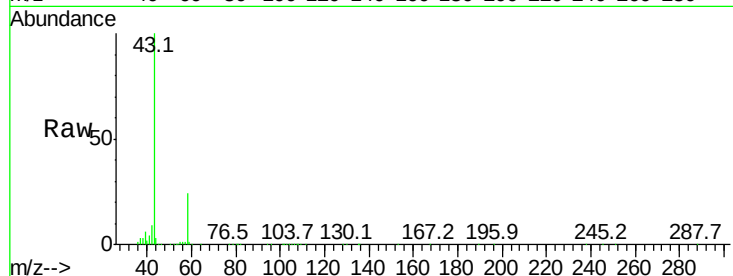
VSTDCCC010EC

Tgt Ion: 43 Resp: 1676164

Ion Ratio Lower Upper

43 100

58 25.5 20.3 30.5



#16

1,3-Butadiene

Concen: 9.006 ppbv

RT: 3.31 min Scan# 164

Delta R.T. 0.01 min

Lab File: VL036342.D

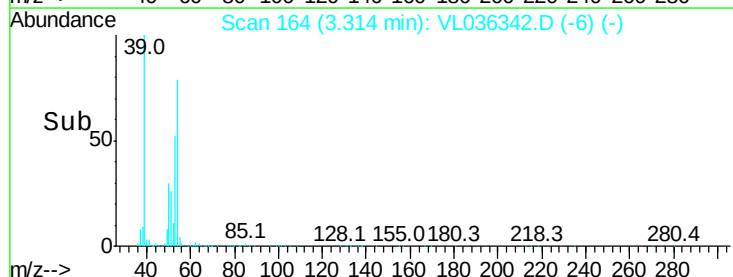
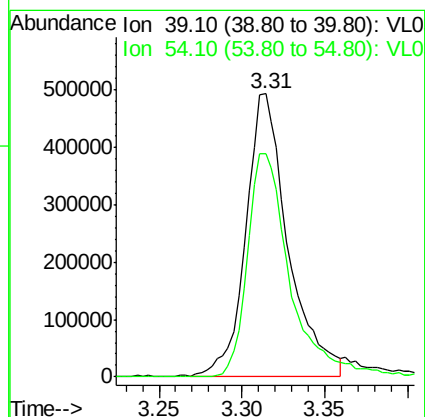
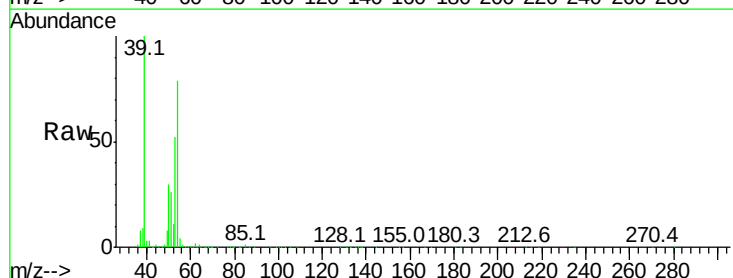
Acq: 11 Feb 2021 9:52

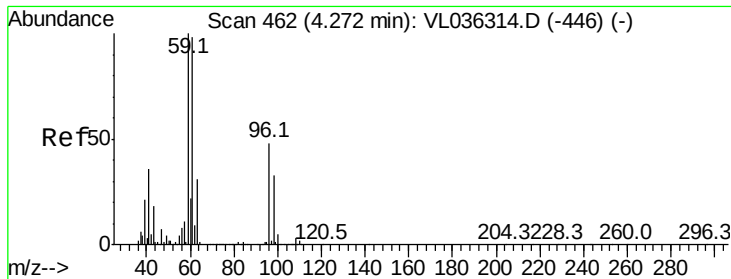
Tgt Ion: 39 Resp: 866630

Ion Ratio Lower Upper

39 100

54 81.5 64.4 96.6



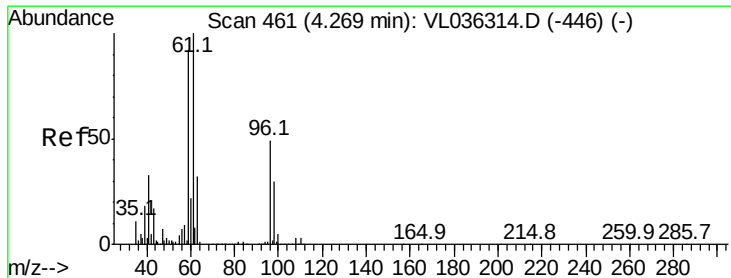
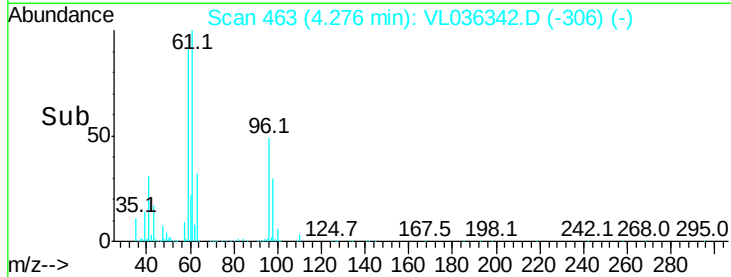
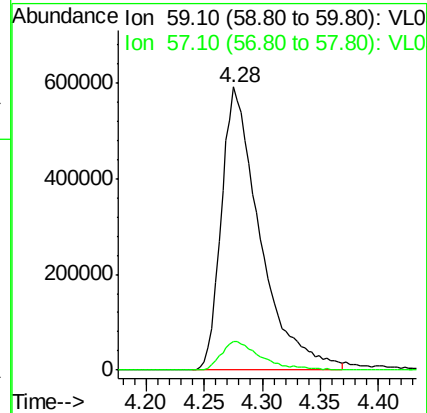
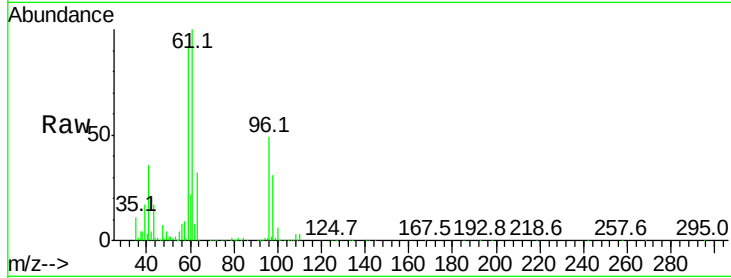


#17

tert-Butyl alcohol
Concen: 8.738 ppbv
RT: 4.28 min Scan# 463
Delta R.T. 0.00 min
Lab File: VL036342.D
Acq: 11 Feb 2021 9:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

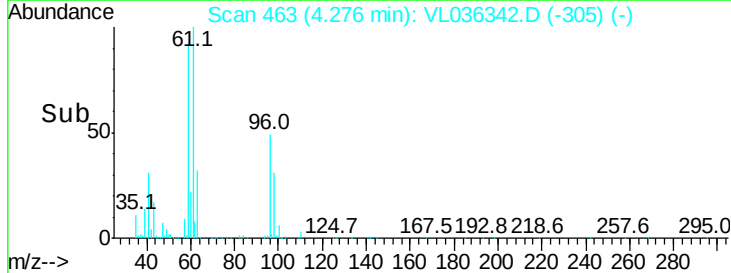
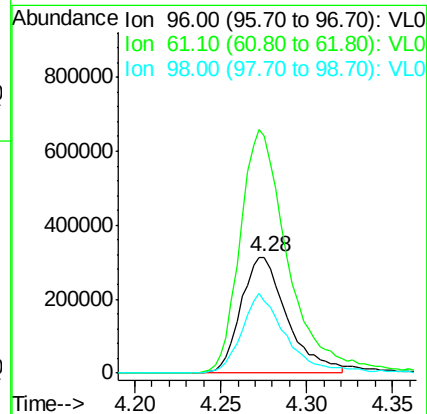
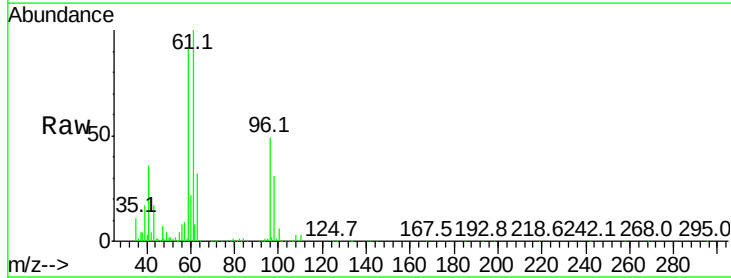
Tgt Ion: 59 Resp: 1364884
Ion Ratio Lower Upper
59 100
57 11.1 9.0 13.4

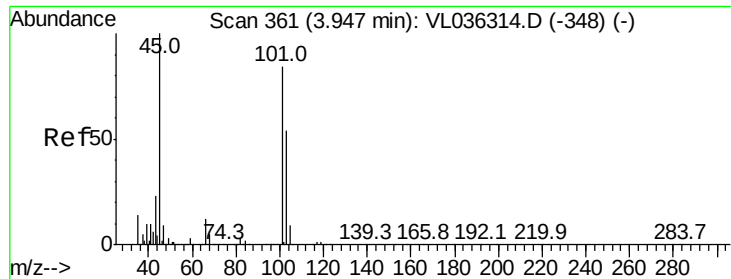


#18

1,1-Dichloroethene
Concen: 8.655 ppbv
RT: 4.28 min Scan# 463
Delta R.T. 0.01 min
Lab File: VL036342.D
Acq: 11 Feb 2021 9:52

Tgt Ion: 96 Resp: 586158
Ion Ratio Lower Upper
96 100
61 204.8 162.5 243.7
98 62.4 48.5 72.7

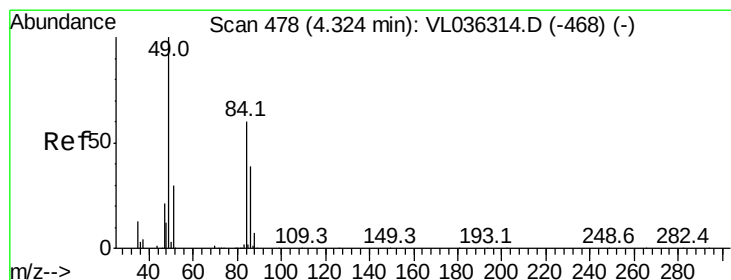
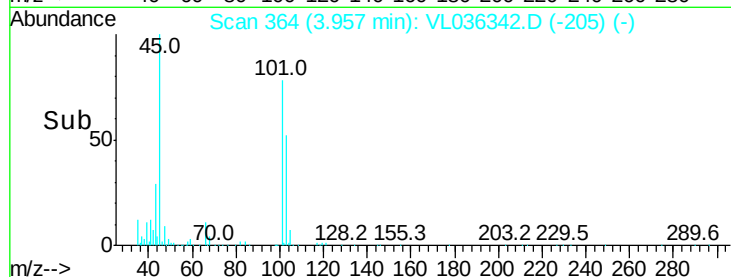
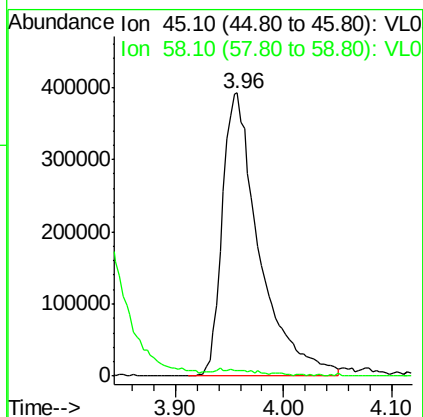
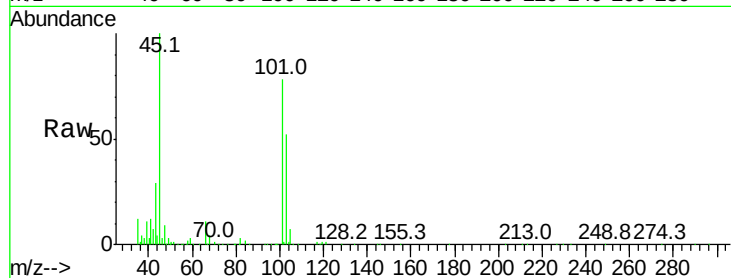




#19
Isopropyl Alcohol
Concen: 8.373 ppbv
RT: 3.96 min Scan# 364
Delta R.T. 0.01 min
Lab File: VL036342.D
Acq: 11 Feb 2021 9:52

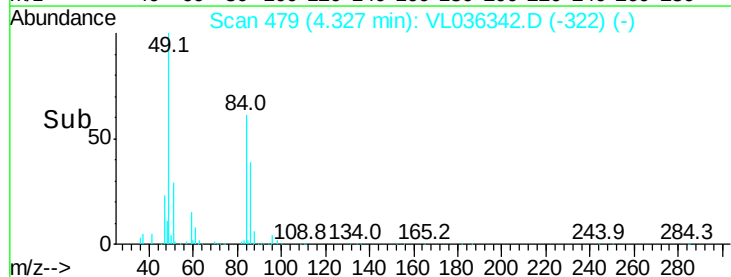
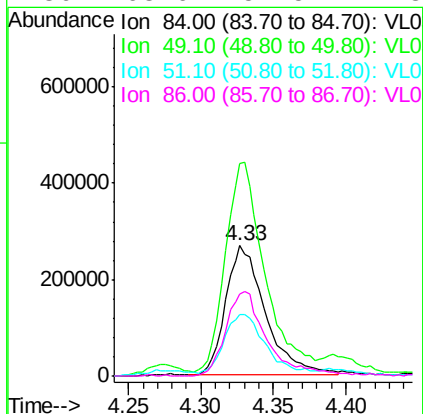
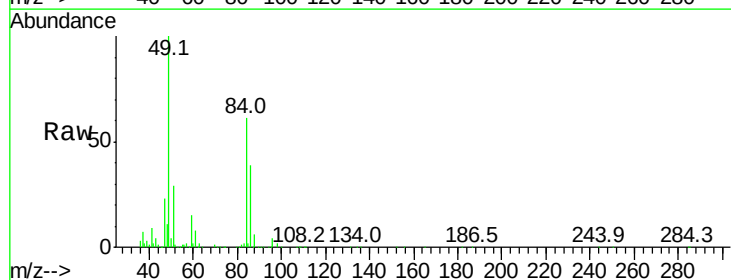
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

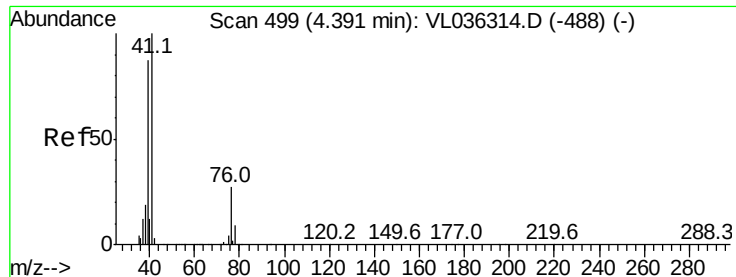
Tgt Ion: 45 Resp: 933468
Ion Ratio Lower Upper
45 100
58 3.0 1.9 2.9#



#20
Methylene Chloride
Concen: 7.879 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL036342.D
Acq: 11 Feb 2021 9:52

Tgt Ion: 84 Resp: 511509
Ion Ratio Lower Upper
84 100
49 160.6 133.8 200.8
51 44.3 41.4 62.0
86 63.6 51.5 77.3





#21

Allyl Chloride

Concen: 9.018 ppbv

RT: 4.39 min Scan# 500

Delta R.T. 0.00 min

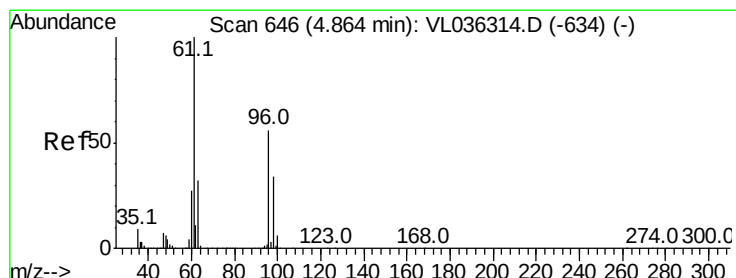
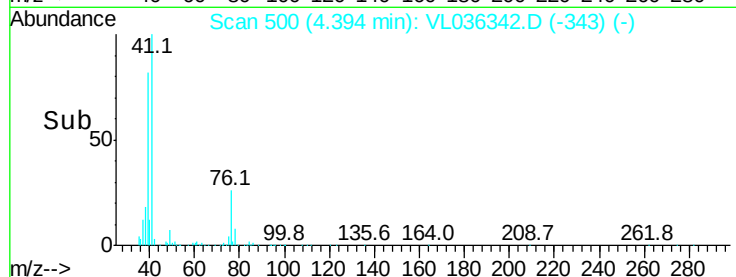
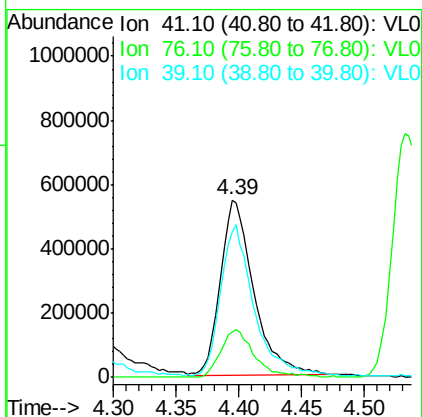
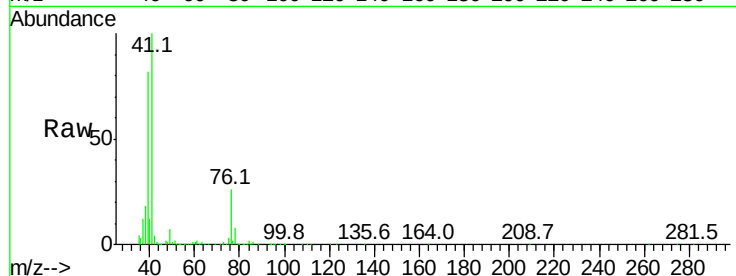
Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 41 Resp: 1010303

Ion	Ratio	Lower	Upper
41	100		
76	27.9	22.0	33.0
39	86.9	70.2	105.2



#22

trans-1,2-Dichloroethene

Concen: 9.430 ppbv

RT: 4.87 min Scan# 647

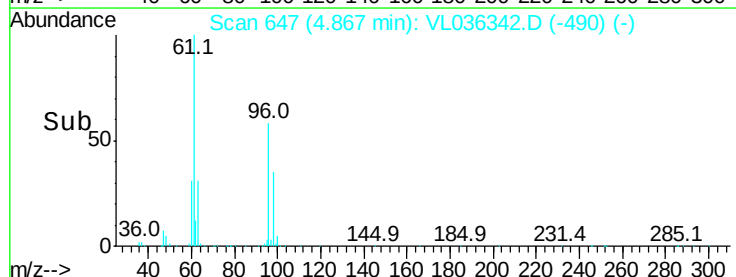
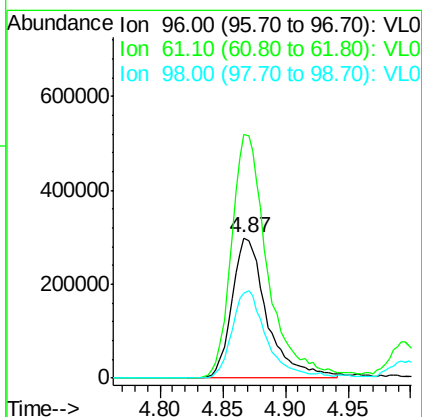
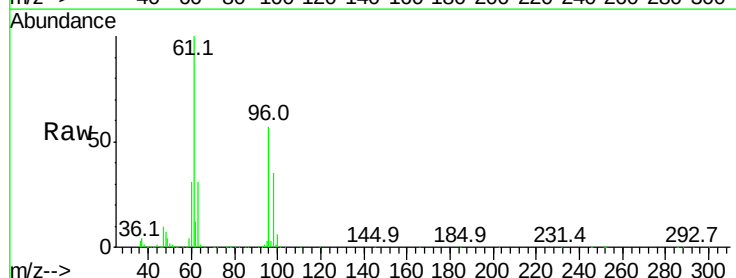
Delta R.T. 0.00 min

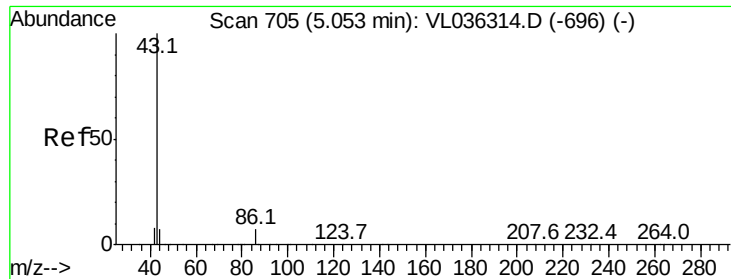
Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Tgt Ion: 96 Resp: 580141

Ion	Ratio	Lower	Upper
96	100		
61	174.0	143.7	215.5
98	60.3	48.5	72.7



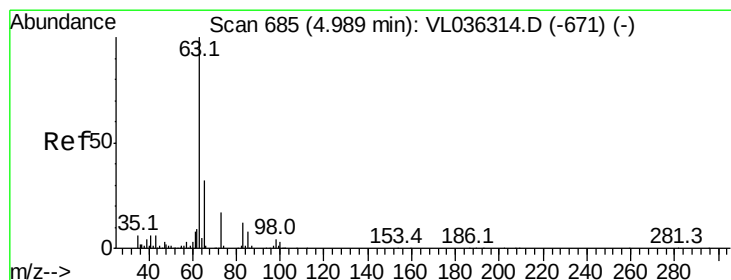
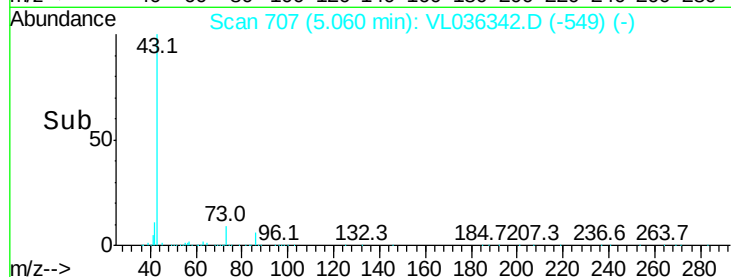
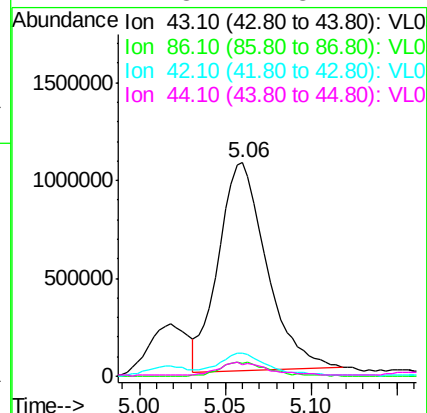
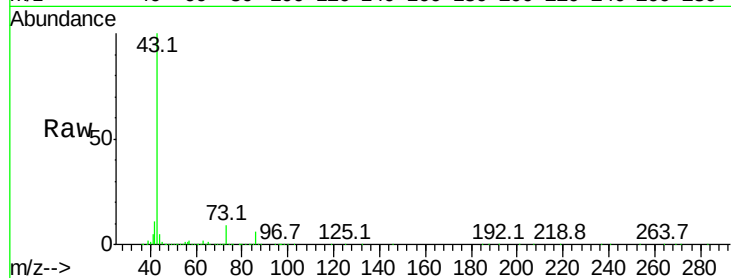


#23
 Vinyl Acetate
 Concen: 8.788 ppbv
 RT: 5.06 min Scan# 707
 Delta R.T. 0.01 min
 Lab File: VL036342.D
 Acq: 11 Feb 2021 9:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 43 Resp: 2079175

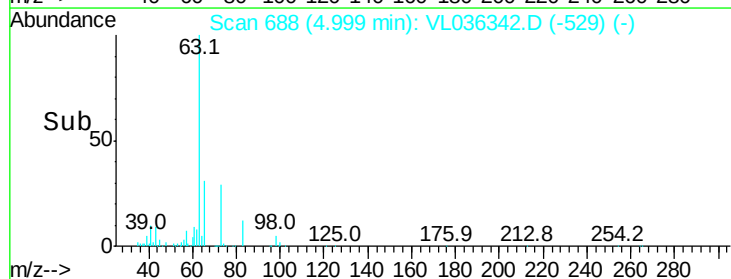
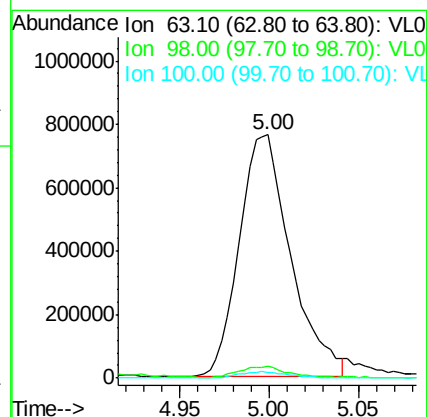
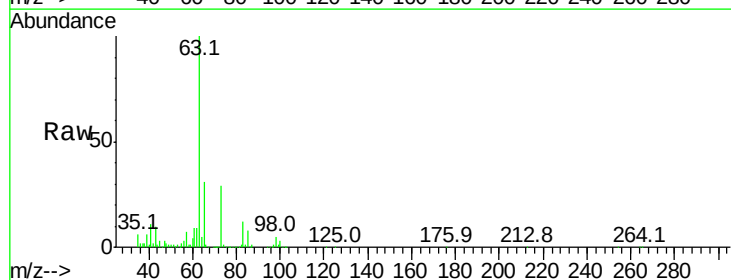
Ion	Ratio	Lower	Upper
43	100		
86	6.0	4.8	7.2
42	10.9	7.4	11.0
44	4.8	4.8	7.2

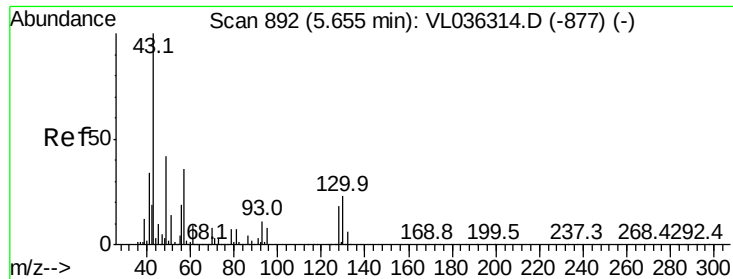


#24
 1,1-Dichloroethane
 Concen: 8.777 ppbv
 RT: 5.00 min Scan# 688
 Delta R.T. 0.01 min
 Lab File: VL036342.D
 Acq: 11 Feb 2021 9:52

Tgt Ion: 63 Resp: 1535783

Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.0	6.0
100	2.4	1.5	4.4

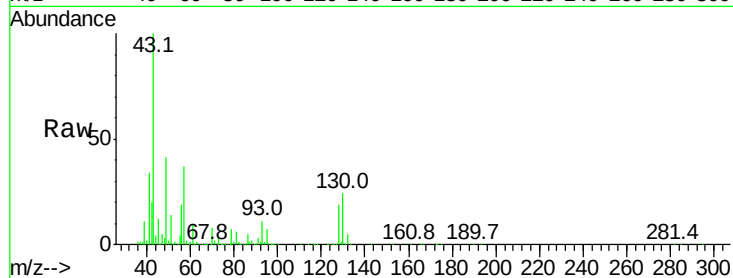




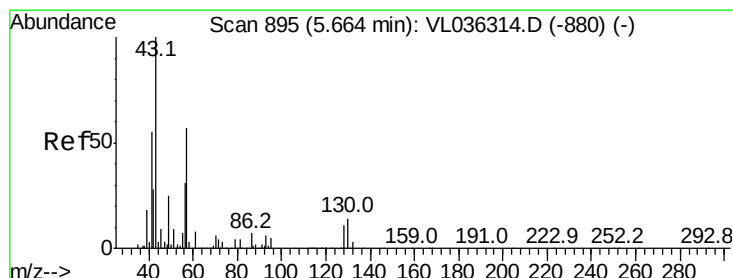
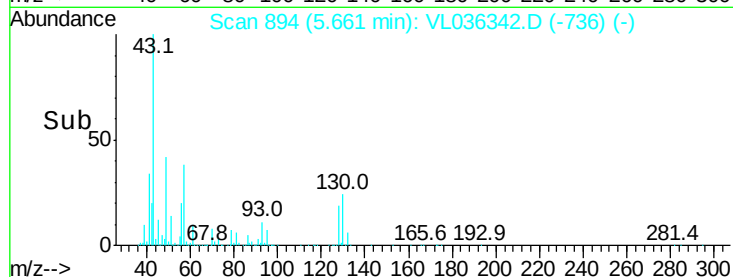
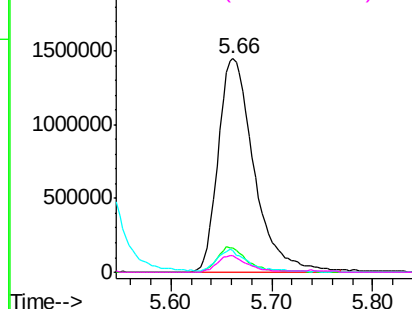
#25
Ethyl Acetate
Concen: 9.173 ppbv
RT: 5.66 min Scan# 894
Delta R.T. 0.01 min
Lab File: VL036342.D
Acq: 11 Feb 2021 9:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 3563354
Ion Ratio Lower Upper
43 100
45 10.5 8.3 12.5
61 9.3 7.3 10.9
70 6.7 5.4 8.0

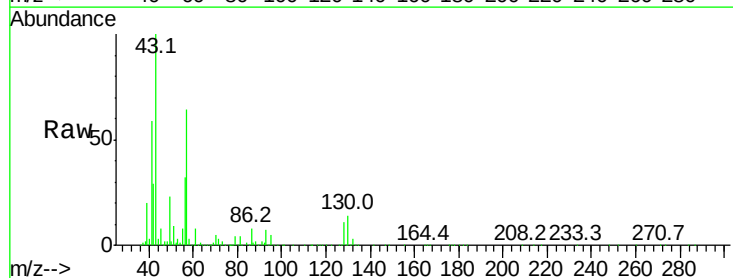


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

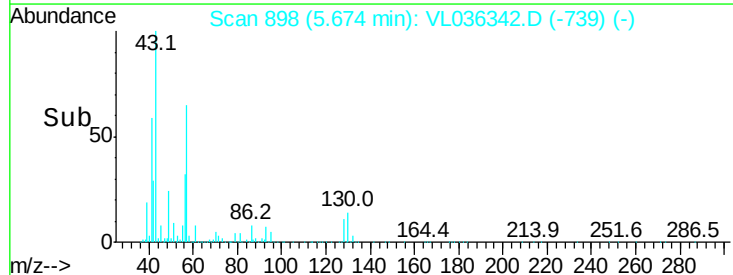
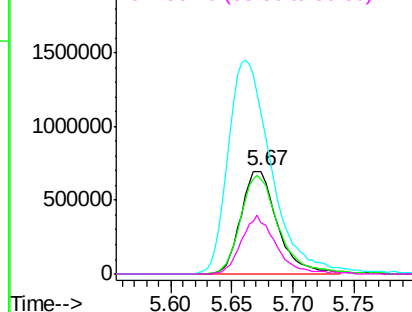


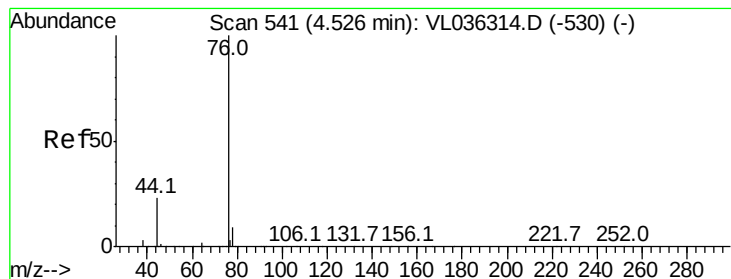
#26
Hexane
Concen: 9.048 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL036342.D
Acq: 11 Feb 2021 9:52

Tgt Ion: 57 Resp: 1444252
Ion Ratio Lower Upper
57 100
41 101.2 81.7 122.5
43 249.9 199.1 298.7
56 55.1 44.0 66.0



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.276 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

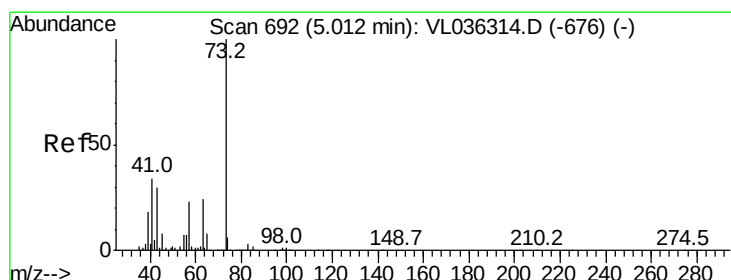
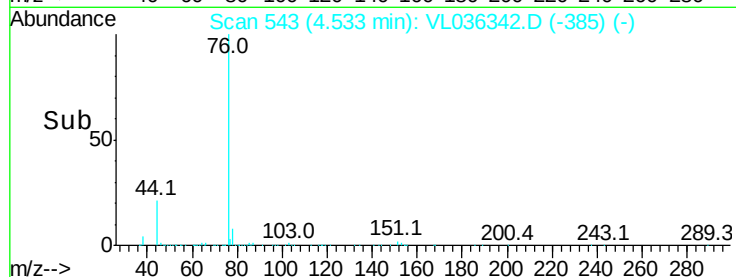
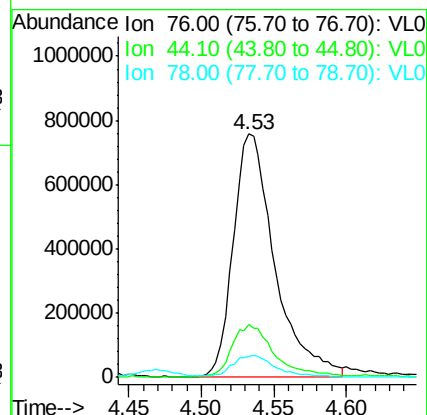
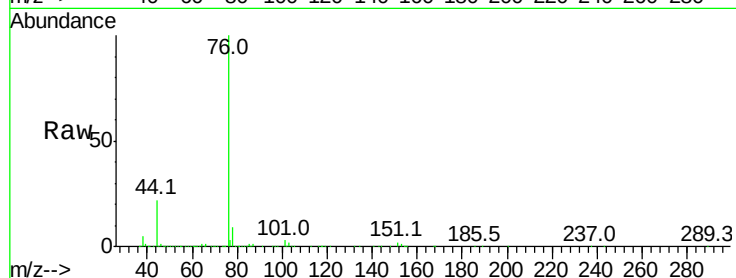
Tgt Ion: 76 Resp: 1507493

Ion Ratio Lower Upper

76 100

44 22.2 18.4 27.6

78 9.8 8.0 12.0



#28

Methyl tert-Butyl Ether

Concen: 9.456 ppbv

RT: 5.02 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL036342.D

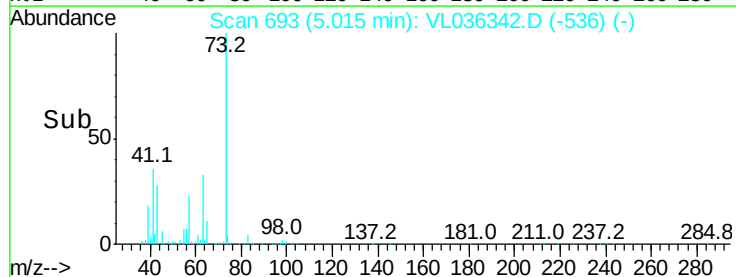
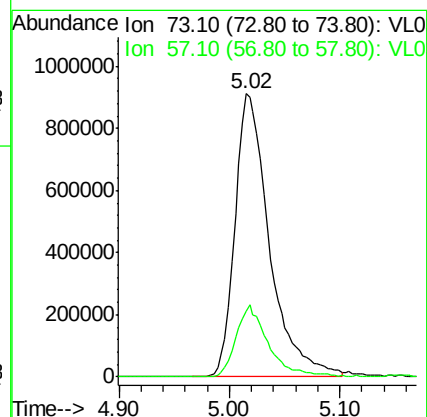
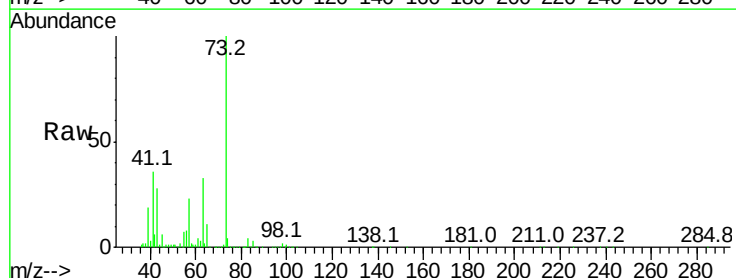
Acq: 11 Feb 2021 9:52

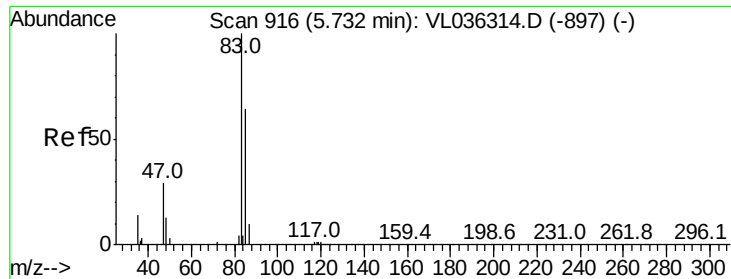
Tgt Ion: 73 Resp: 1971587

Ion Ratio Lower Upper

73 100

57 23.9 19.2 28.8





#29

Chloroform

Concen: 9.076 ppbv

RT: 5.74 min Scan# 917

Delta R.T. 0.00 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

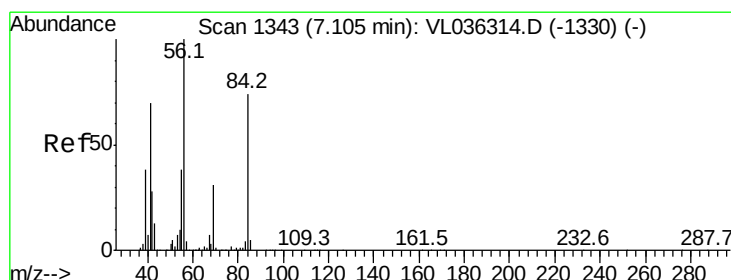
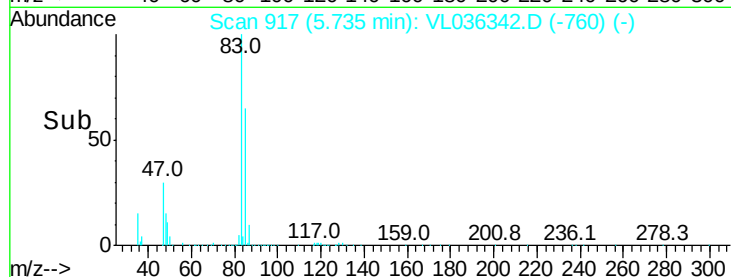
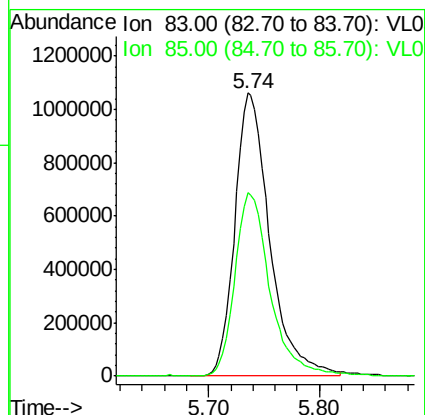
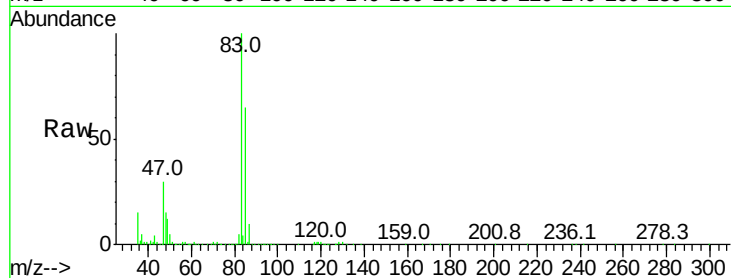
VSTDCCC010EC

Tgt Ion: 83 Resp: 2333968

Ion Ratio Lower Upper

83 100

85 64.5 51.4 77.2



#30

Cyclohexane

Concen: 9.065 ppbv

RT: 7.11 min Scan# 1345

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

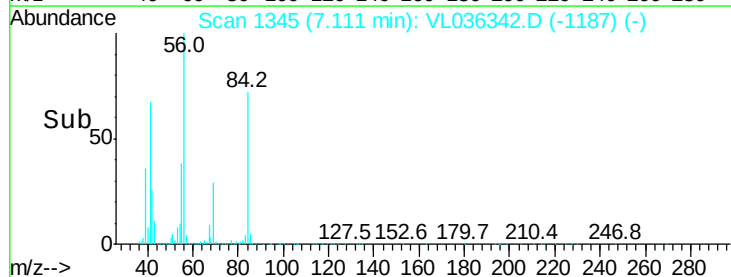
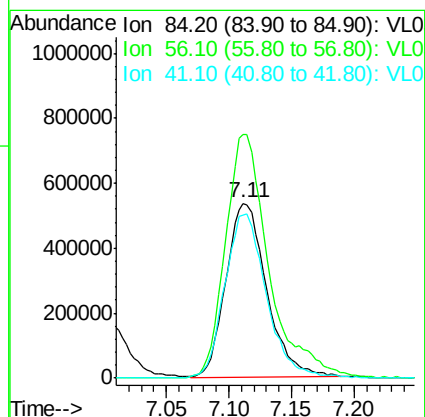
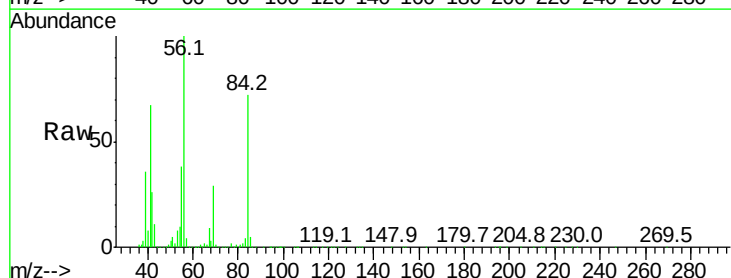
Tgt Ion: 84 Resp: 1203304

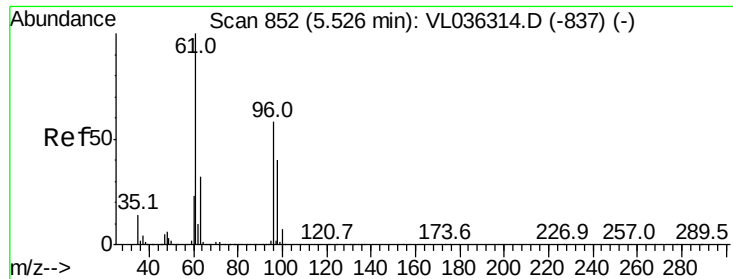
Ion Ratio Lower Upper

84 100

56 151.1 120.2 180.4

41 97.0 79.7 119.5



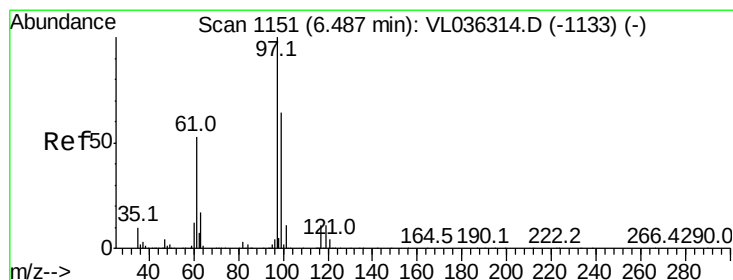
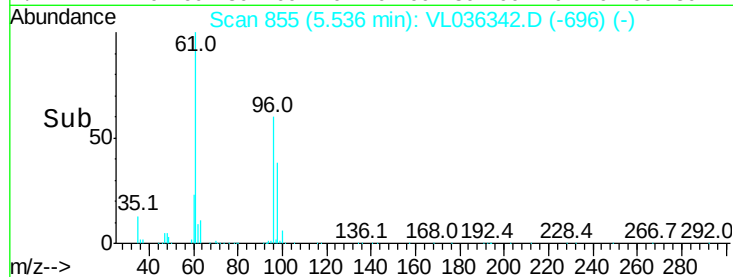
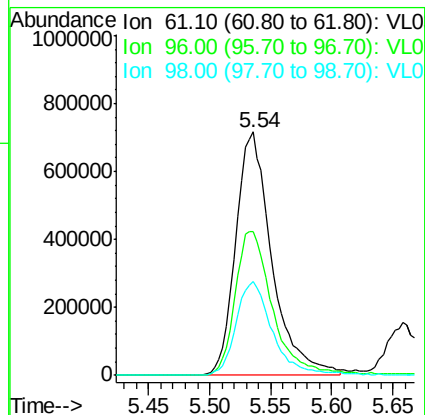
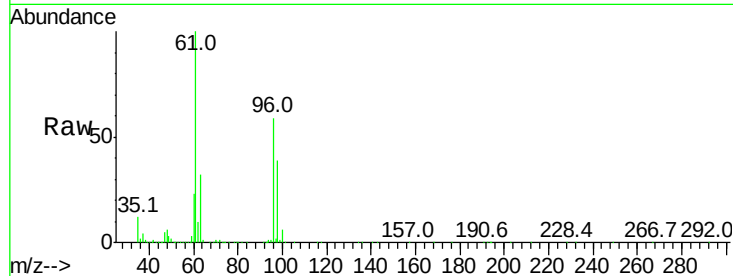


#31

cis-1,2-Dichloroethene
 Concen: 9.309 ppbv
 RT: 5.54 min Scan# 855
 Delta R.T. 0.01 min
 Lab File: VL036342.D
 Acq: 11 Feb 2021 9:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

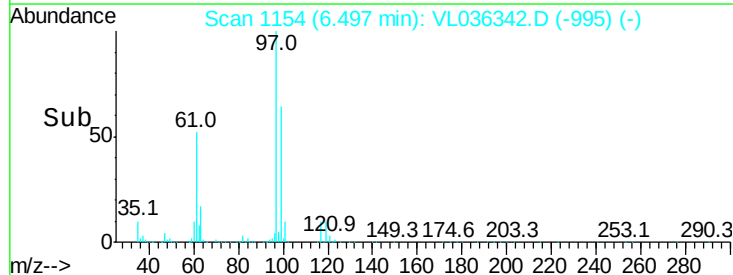
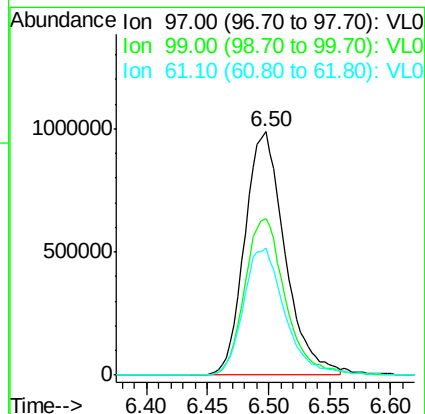
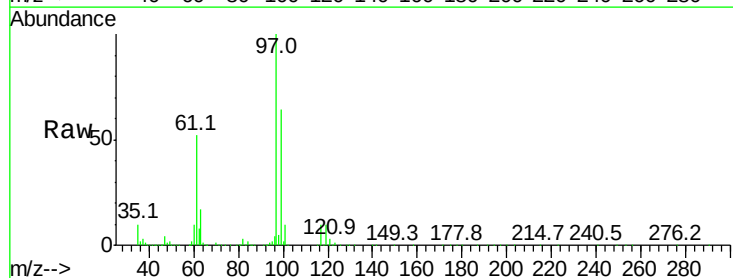
Tgt Ion: 61 Resp: 1470180
 Ion Ratio Lower Upper
 61 100
 96 59.0 46.0 69.0
 98 38.6 31.9 47.9

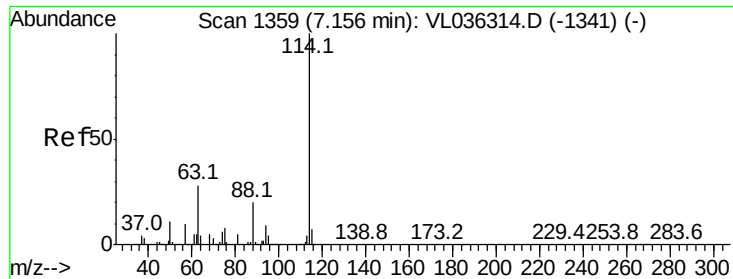


#32

1,1,1-Trichloroethane
 Concen: 9.326 ppbv
 RT: 6.50 min Scan# 1154
 Delta R.T. 0.01 min
 Lab File: VL036342.D
 Acq: 11 Feb 2021 9:52

Tgt Ion: 97 Resp: 2242088
 Ion Ratio Lower Upper
 97 100
 99 65.3 52.2 78.4
 61 53.9 43.3 64.9

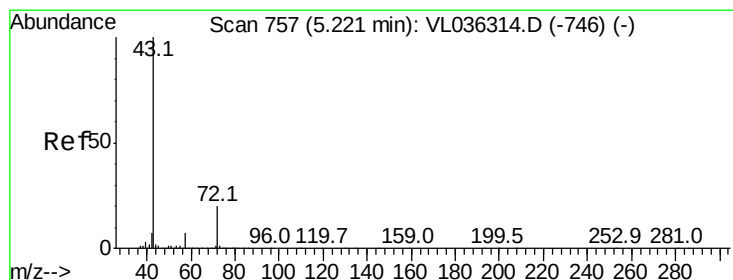
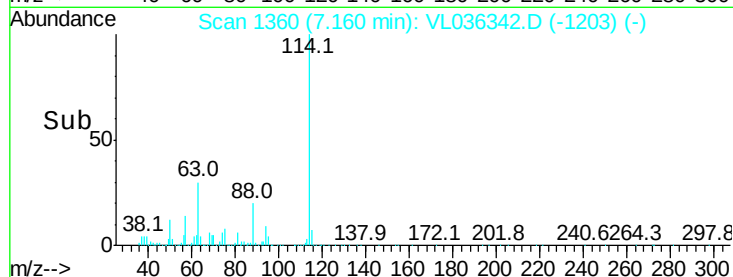
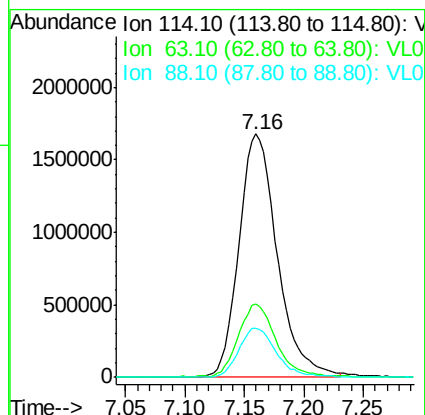
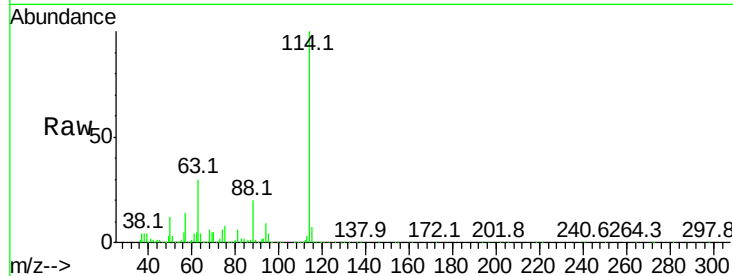




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL036342.D
 Acq: 11 Feb 2021 9:52

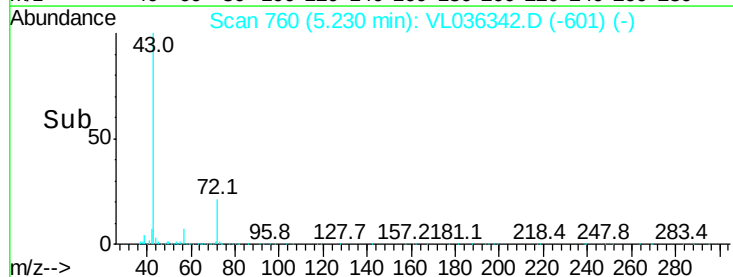
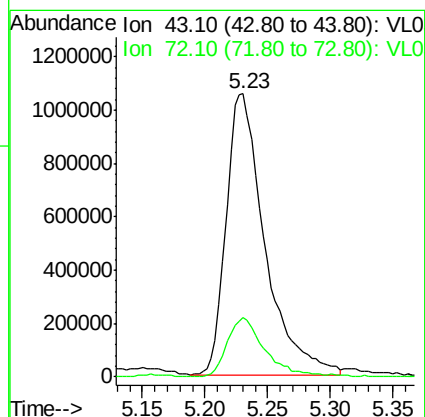
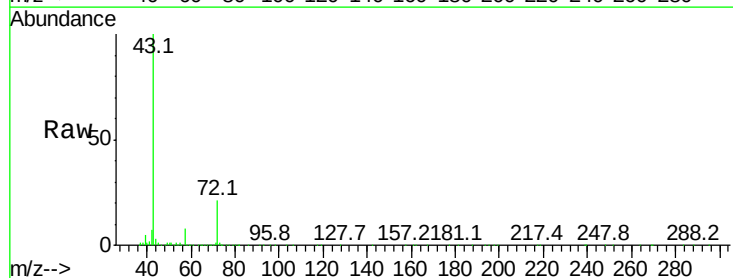
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

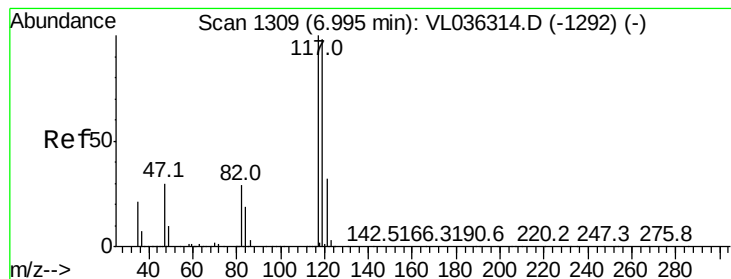
Tgt Ion:114 Resp: 3742243
 Ion Ratio Lower Upper
 114 100
 63 30.4 24.1 36.1
 88 20.2 16.0 24.0



#34
 2-Butanone
 Concen: 9.071 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. 0.01 min
 Lab File: VL036342.D
 Acq: 11 Feb 2021 9:52

Tgt Ion: 43 Resp: 2255339
 Ion Ratio Lower Upper
 43 100
 72 20.6 16.7 25.1





#35

Carbon Tetrachloride

Concen: 9.210 ppbv

RT: 7.00 min Scan# 1311

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

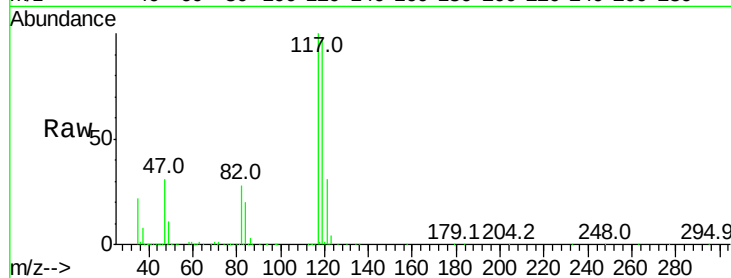
Tgt Ion:117 Resp: 2310047

Ion Ratio Lower Upper

117 100

119 96.8 78.1 117.1

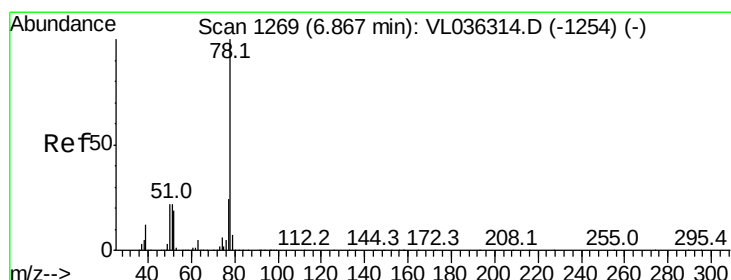
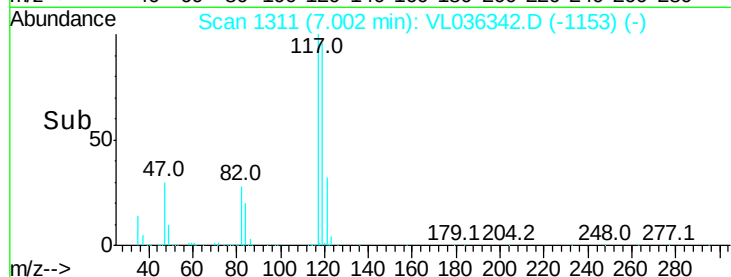
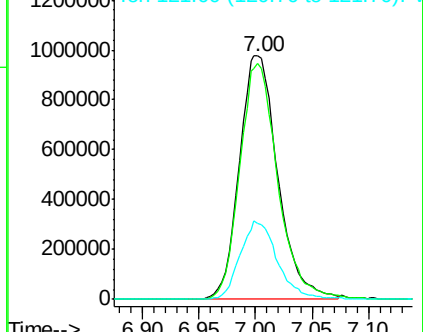
121 31.4 25.8 38.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.528 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

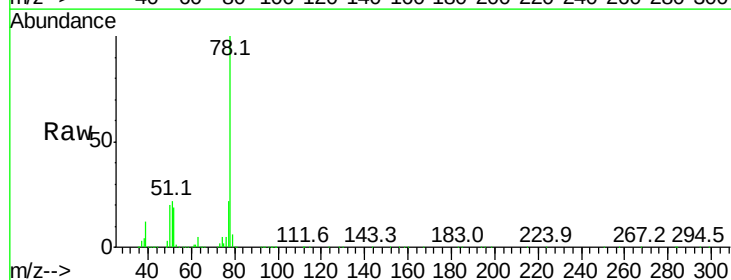
Tgt Ion: 78 Resp: 3028985

Ion Ratio Lower Upper

78 100

77 22.1 18.9 28.3

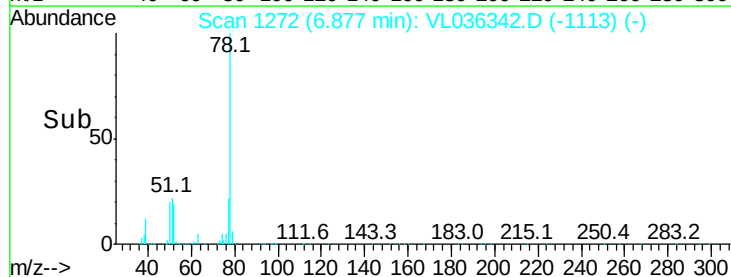
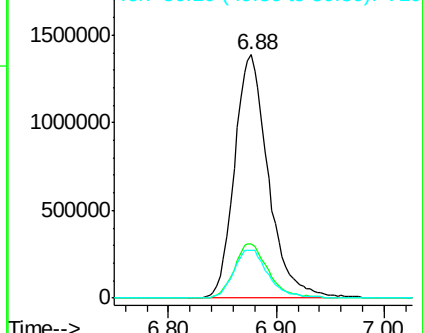
50 19.6 17.3 25.9

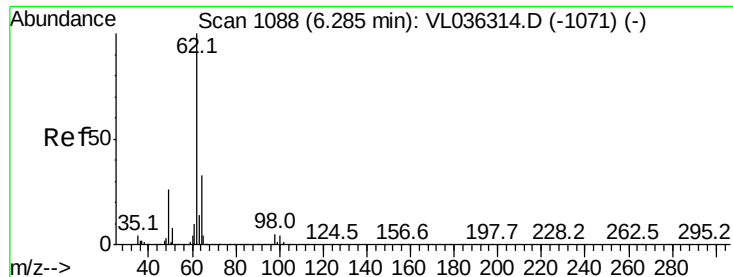


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

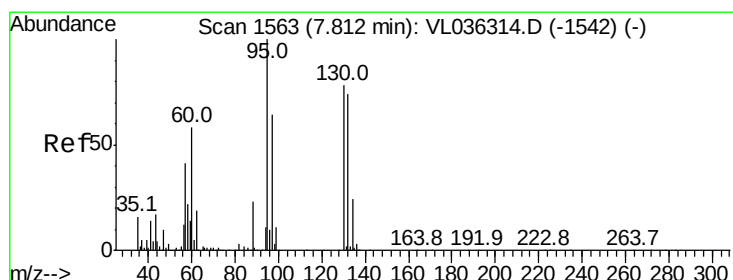
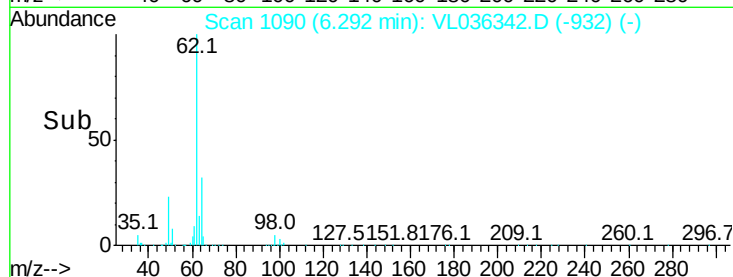
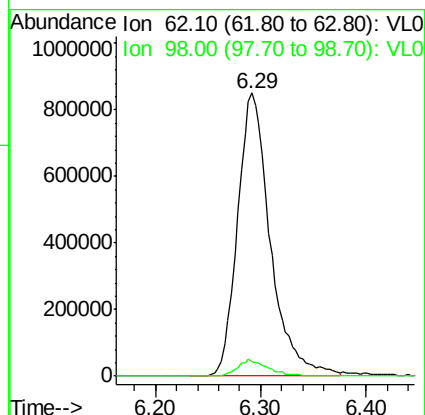
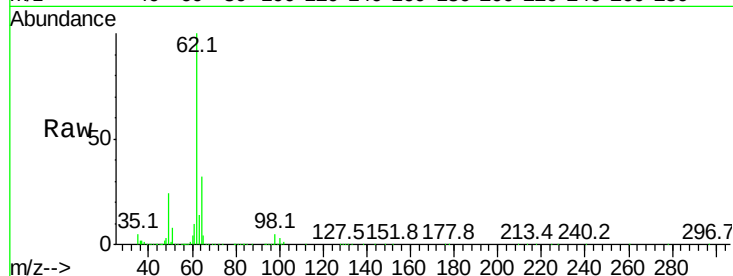




#37
 1,2-Dichloroethane
 Concen: 9.325 ppbv
 RT: 6.29 min Scan# 1090
 Delta R.T. 0.01 min
 Lab File: VL036342.D
 Acq: 11 Feb 2021 9:52

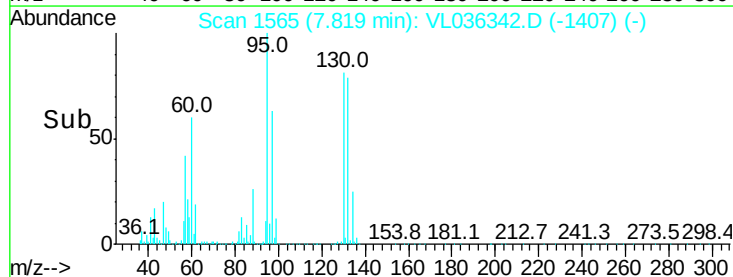
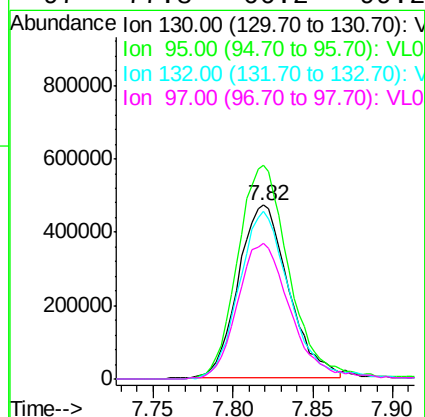
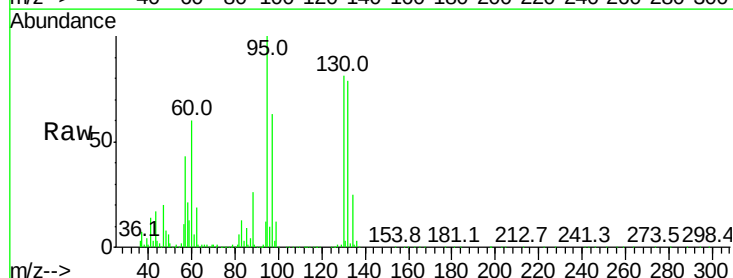
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

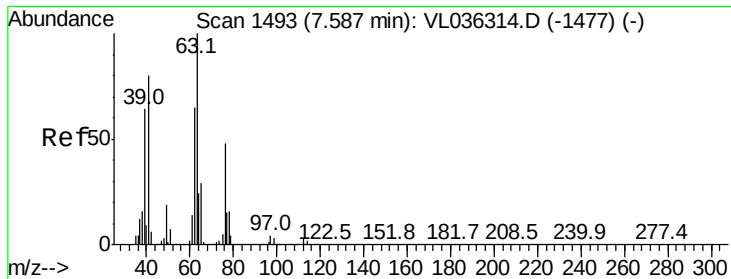
Tgt Ion: 62 Resp: 1832829
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.5 6.7



#38
 Trichloroethene
 Concen: 8.877 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: VL036342.D
 Acq: 11 Feb 2021 9:52

Tgt Ion: 130 Resp: 1010972
 Ion Ratio Lower Upper
 130 100
 95 123.2 102.8 154.2
 132 96.9 75.7 113.5
 97 77.8 66.2 99.2





#39

1,2-Dichloropropane

Concen: 9.339 ppbv

RT: 7.60 min Scan# 1496

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

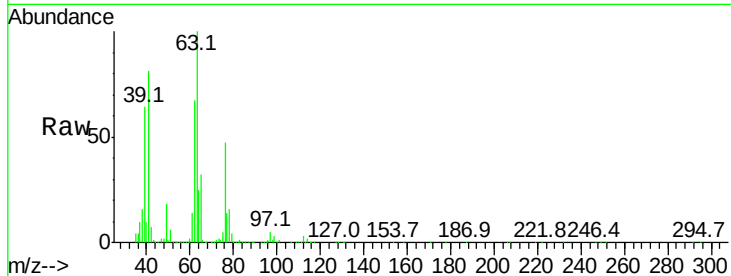
Tgt Ion: 63 Resp: 1205969

Ion Ratio Lower Upper

63 100

41 81.1 63.8 95.6

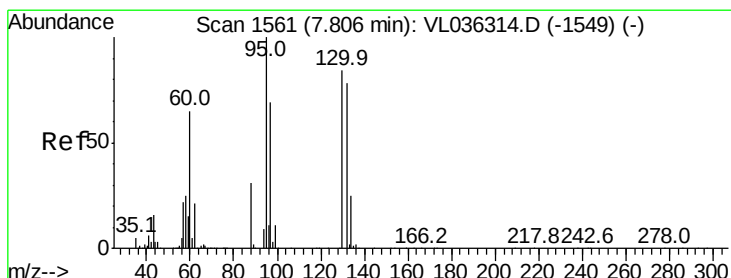
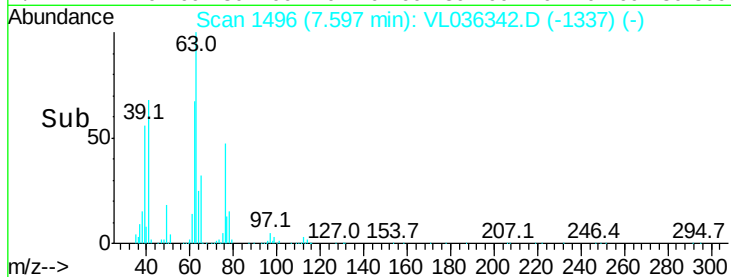
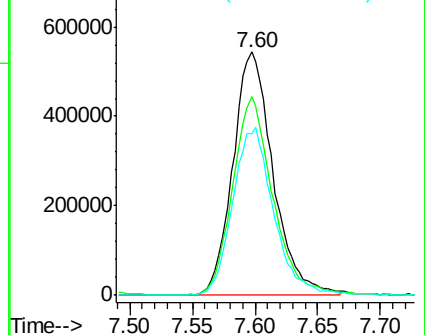
62 66.7 52.3 78.5



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 3.211 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Tgt Ion: 88 Resp: 143662

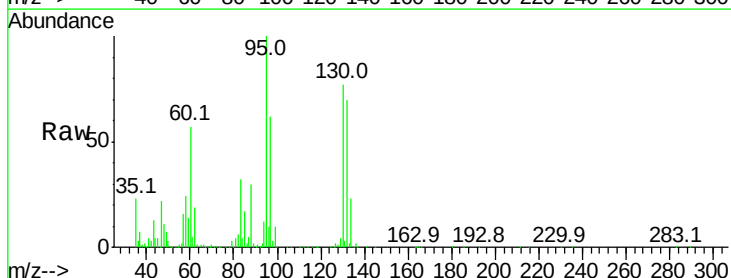
Ion Ratio Lower Upper

88 100

58 0.0 45.0 67.4#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

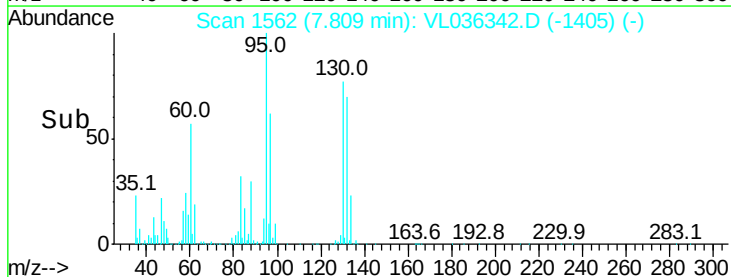
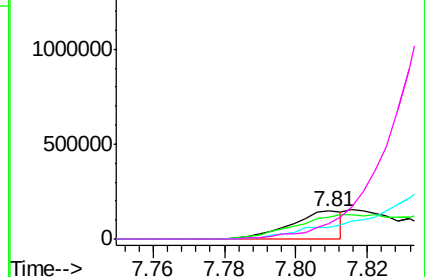


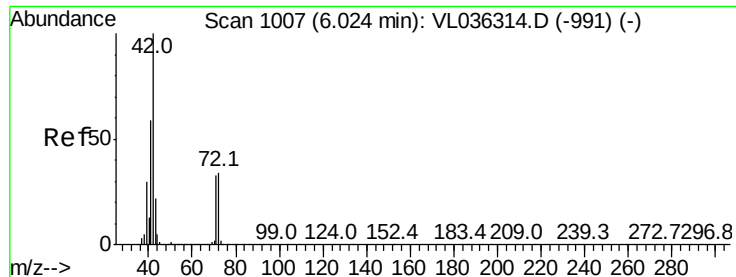
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 9.508 ppbv

RT: 6.03 min Scan# 1009

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

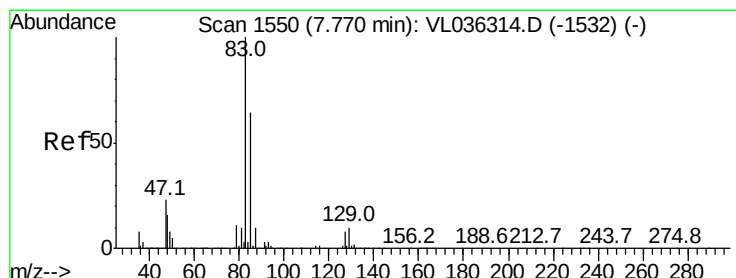
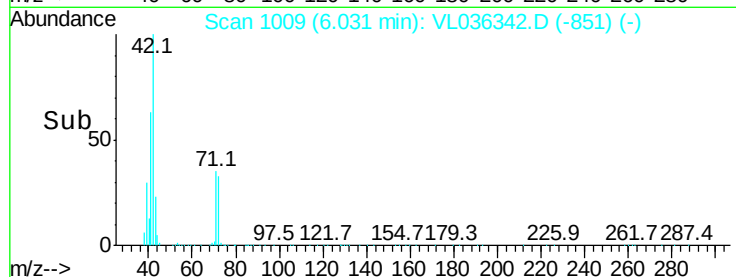
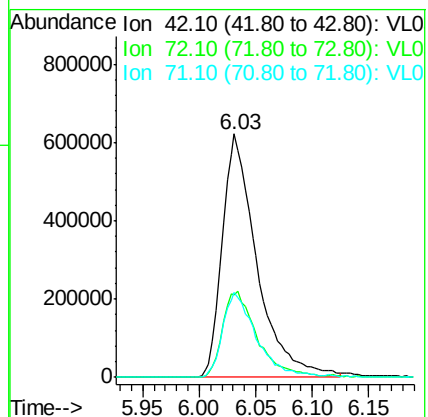
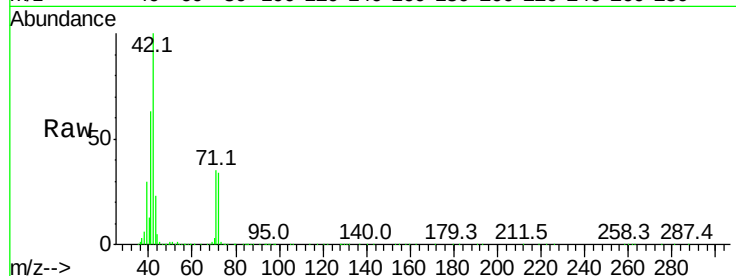
Tgt Ion: 42 Resp: 1319247

Ion	Ratio	Lower	Upper
42	100		
72	36.3	29.3	43.9
71	34.9	27.8	41.8

42 100

72 36.3 29.3 43.9

71 34.9 27.8 41.8



#42

Bromodichloromethane

Concen: 9.434 ppbv

RT: 7.78 min Scan# 1552

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

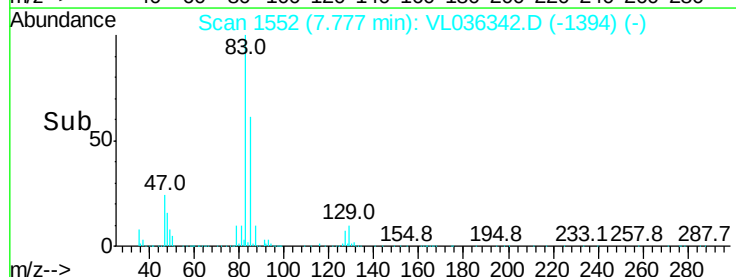
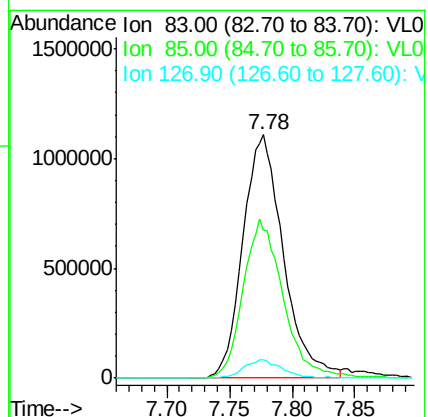
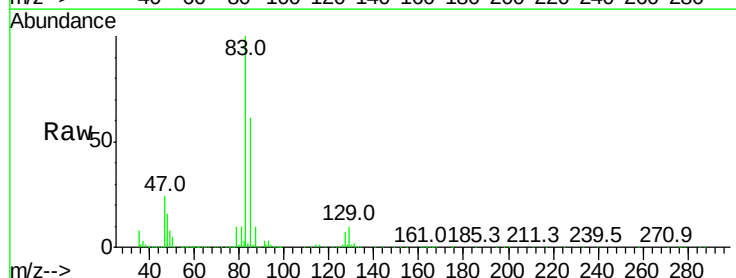
Tgt Ion: 83 Resp: 2483234

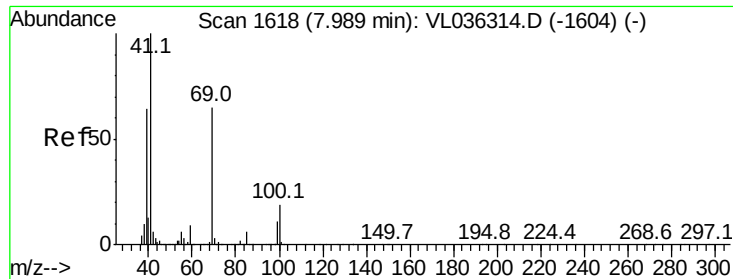
Ion	Ratio	Lower	Upper
83	100		
85	60.6	51.1	76.7
127	7.3	6.3	9.5

83 100

85 60.6 51.1 76.7

127 7.3 6.3 9.5





#43

Methyl Methacrylate

Concen: 10.074 ppbv

RT: 8.00 min Scan# 1620

Delta R.T. 0.01 min

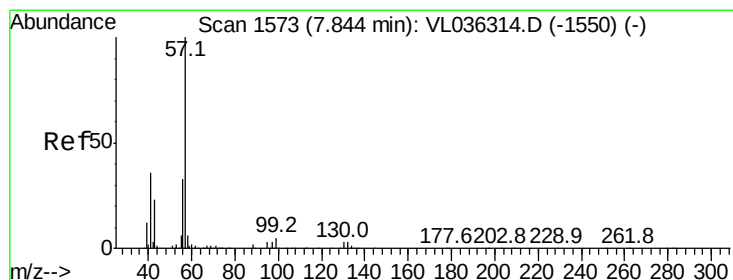
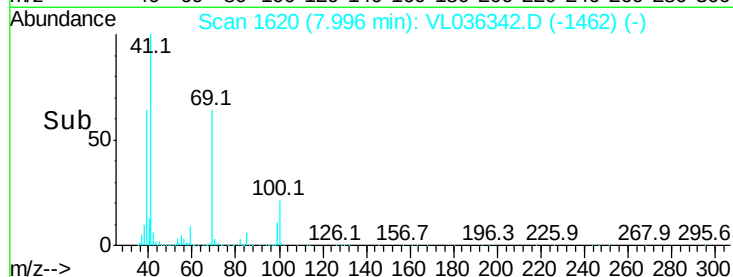
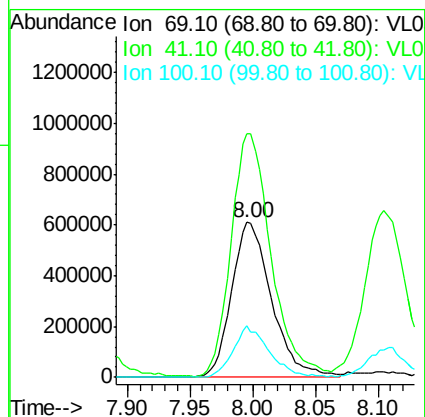
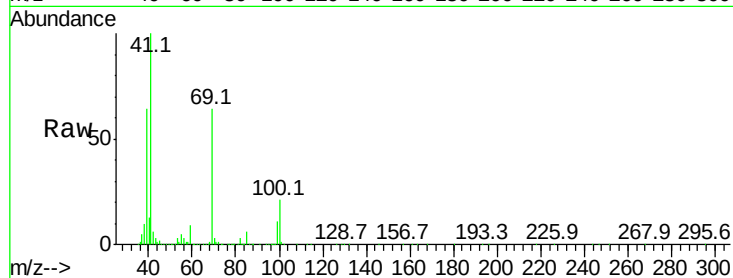
Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 69 Resp: 1350609

Ion	Ratio	Lower	Upper
69	100		
41	157.8	126.5	189.7
100	30.0	23.1	34.7



#44

2,2,4-Trimethylpentane

Concen: 9.004 ppbv

RT: 7.85 min Scan# 1575

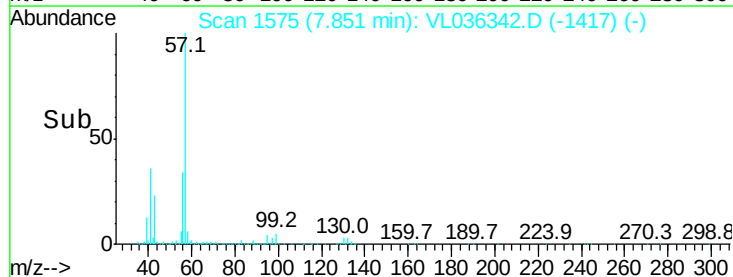
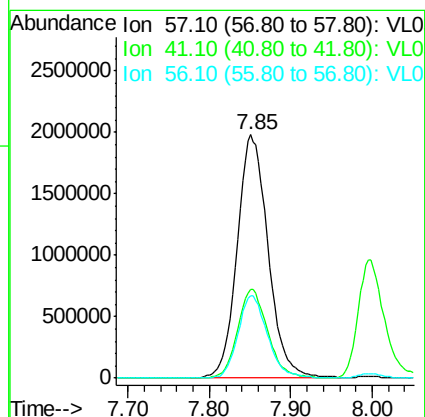
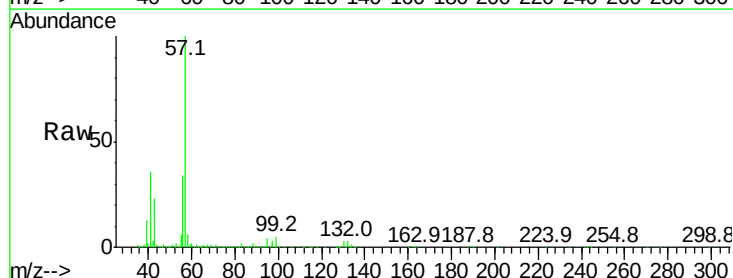
Delta R.T. 0.01 min

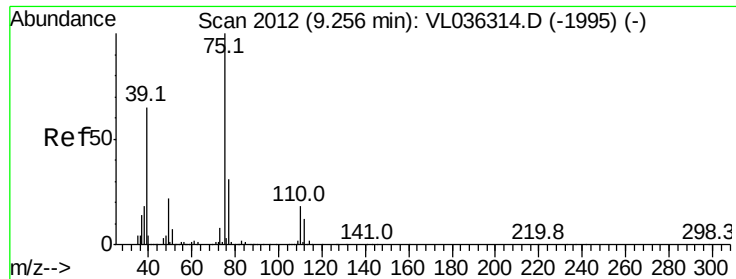
Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Tgt Ion: 57 Resp: 5204422

Ion	Ratio	Lower	Upper
57	100		
41	35.5	28.8	43.2
56	32.4	25.8	38.6





#45

t-1,3-Dichloropropene

Concen: 10.782 ppbv

RT: 9.26 min Scan# 2014

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

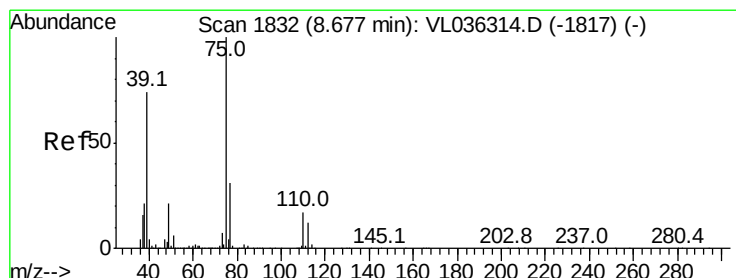
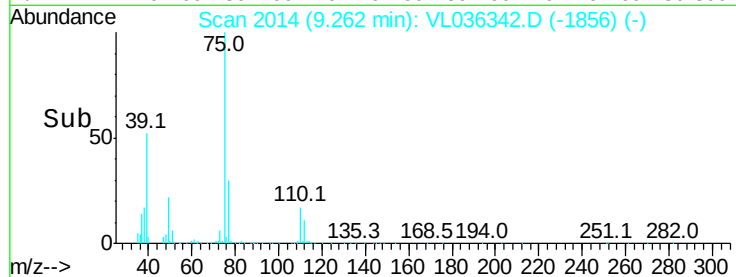
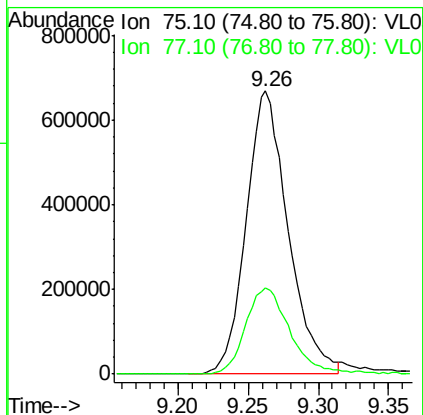
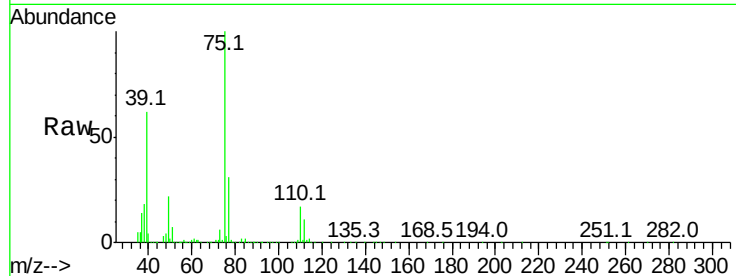
VSTDCCC010EC

Tgt Ion: 75 Resp: 1394353

Ion Ratio Lower Upper

75 100

77 30.5 24.6 37.0



#46

cis-1,3-Dichloropropene

Concen: 10.370 ppbv

RT: 8.69 min Scan# 1835

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

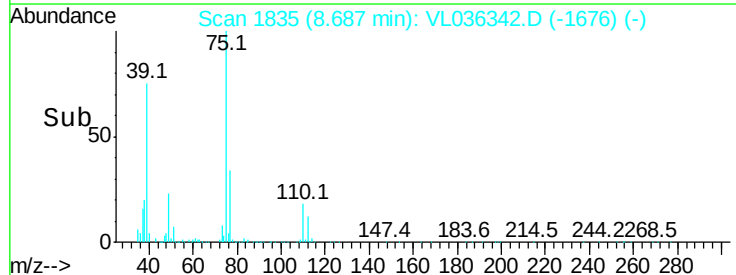
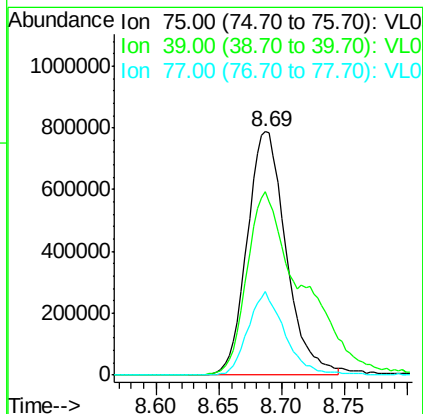
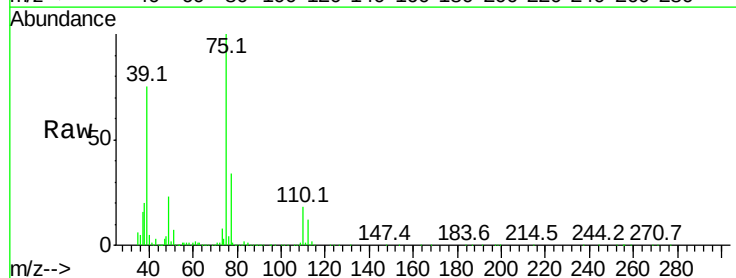
Tgt Ion: 75 Resp: 1703565

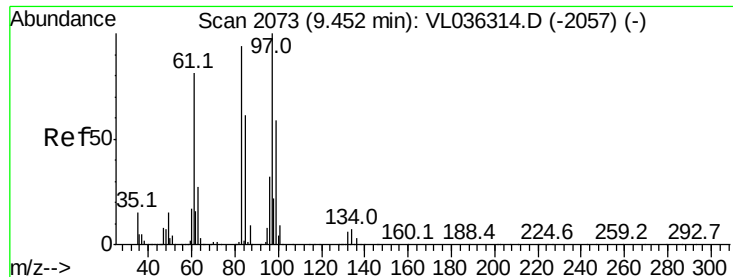
Ion Ratio Lower Upper

75 100

39 75.3 59.2 88.8

77 34.1 25.0 37.6





#47

1,1,2-Trichloroethane

Concen: 8.996 ppbv

RT: 9.46 min Scan# 2076

Delta R.T. 0.01 min

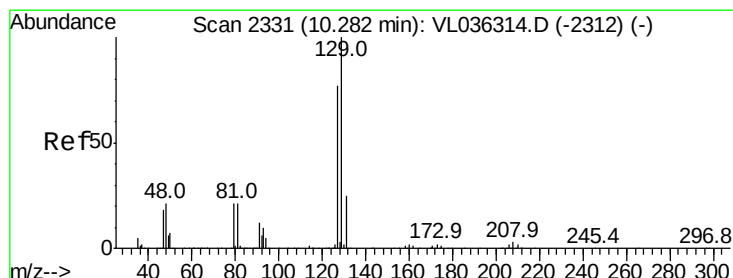
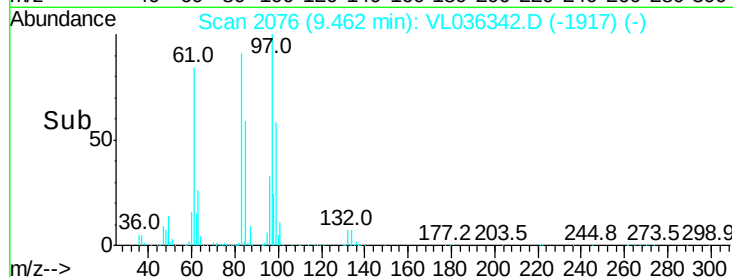
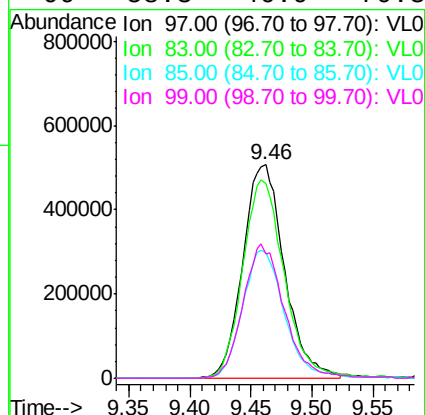
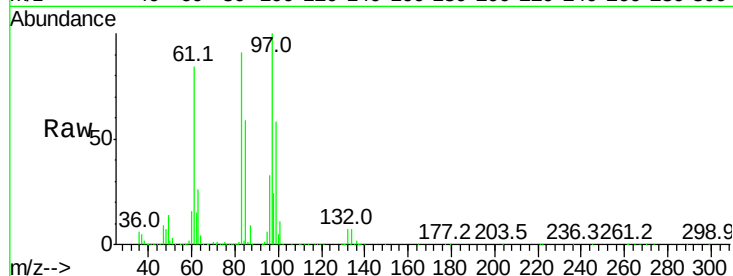
Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 97 Resp: 1188870

Ion	Ratio	Lower	Upper
97	100		
83	91.1	75.4	113.0
85	58.5	48.9	73.3
99	58.3	46.9	70.3



#48

Dibromochloromethane

Concen: 9.888 ppbv

RT: 10.29 min Scan# 2333

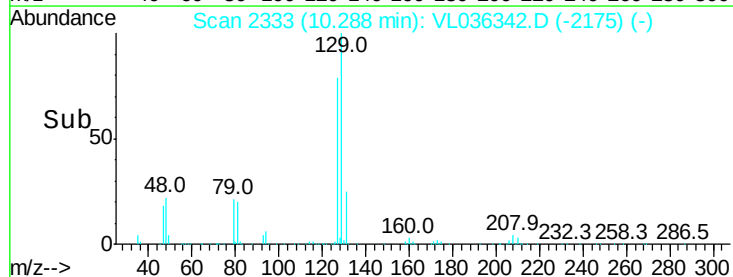
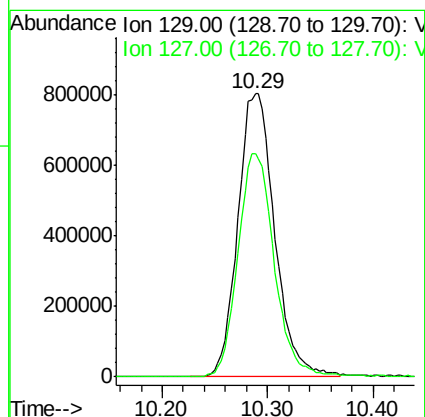
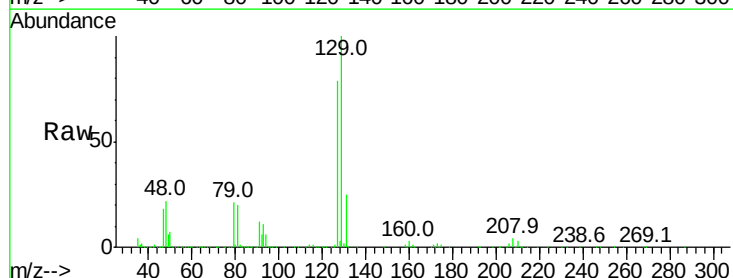
Delta R.T. 0.01 min

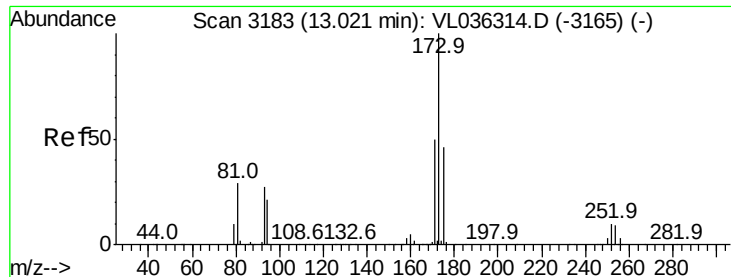
Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Tgt Ion: 129 Resp: 1949855

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.2





#49

Bromoform

Concen: 9.773 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. 0.01 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

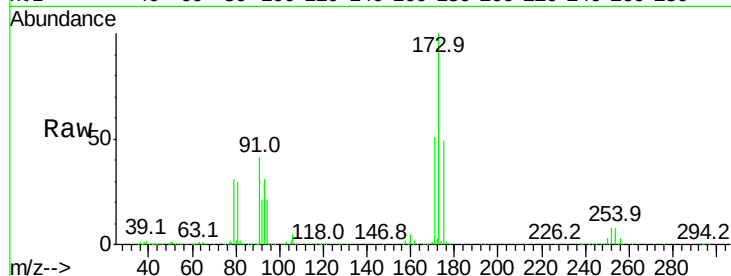
Tgt Ion:173 Resp: 1558071

Ion Ratio Lower Upper

173 100

175 51.0 40.2 60.2

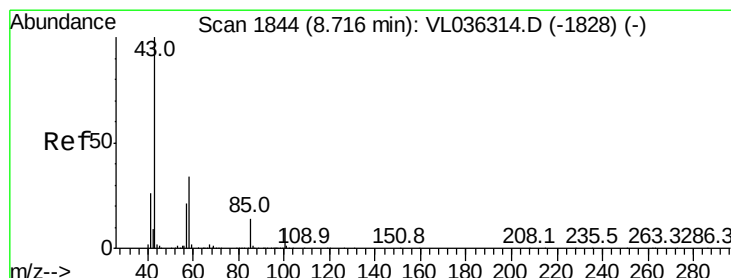
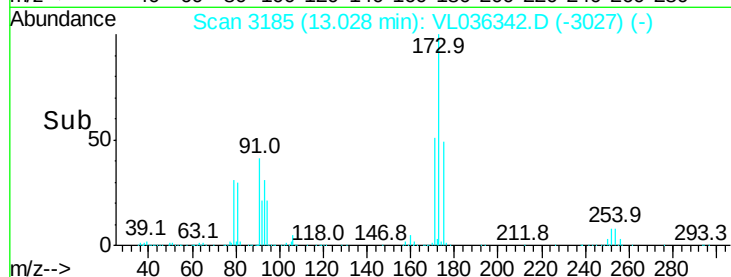
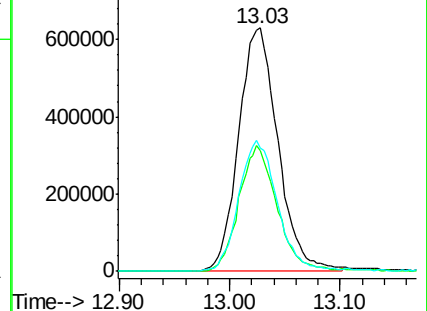
171 53.6 43.4 65.2



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.402 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VL036342.D

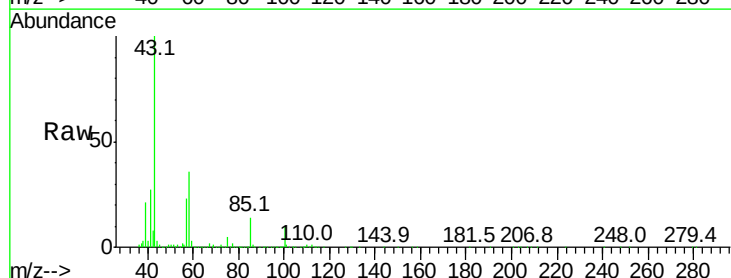
Acq: 11 Feb 2021 9:52

Tgt Ion: 43 Resp: 3470630

Ion Ratio Lower Upper

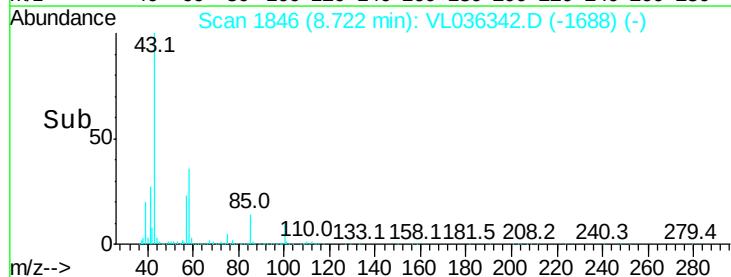
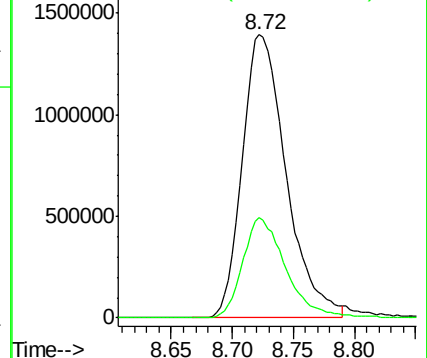
43 100

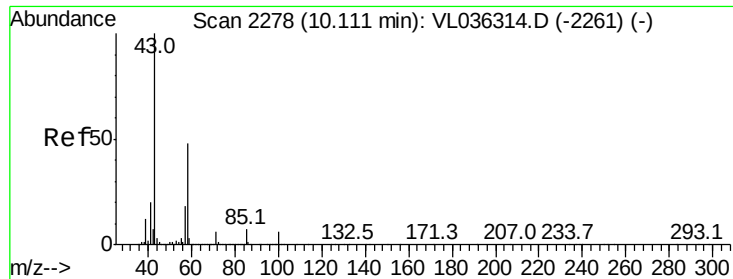
58 35.0 27.8 41.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.170 ppbv

RT: 10.11 min Scan# 2279

Delta R.T. 0.00 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

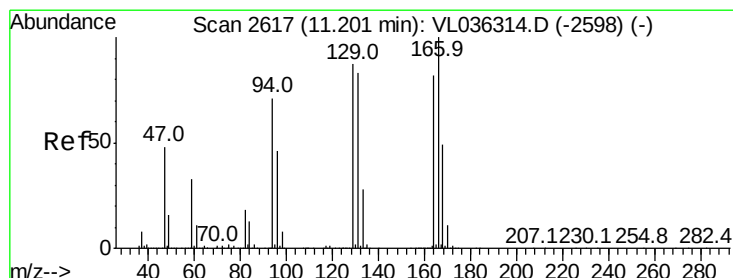
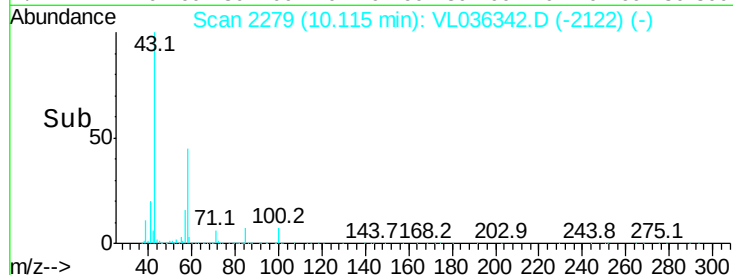
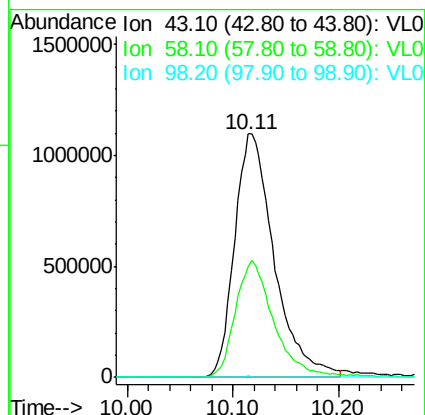
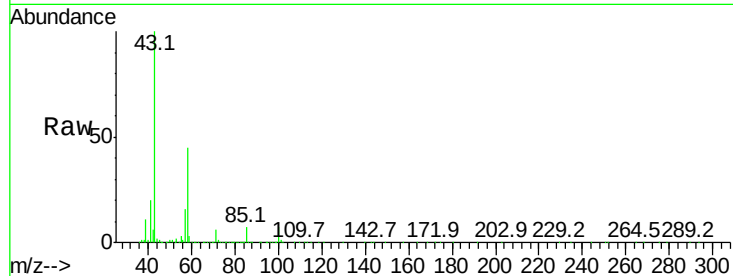
Tgt Ion: 43 Resp: 2852361

Ion Ratio Lower Upper

43 100

58 47.2 38.7 58.1

98 0.3 0.4 0.6#



#52

Tetrachloroethene

Concen: 8.346 ppbv

RT: 11.20 min Scan# 2618

Delta R.T. 0.00 min

Lab File: VL036342.D

Acq: 11 Feb 2021 9:52

Tgt Ion: 164 Resp: 971278

Ion Ratio Lower Upper

164 100

166 126.1 97.8 146.8

129 108.0 84.9 127.3

131 100.8 81.4 122.2

