

Data File : VL036314.D

Acq On : 10 Feb 2021 11:19

Operator : SY/AP

Sample : VSTDICCC010

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Feb 10 13:48:24 2021

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021

QLast Update : Thu Jan 14 16:13:38 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1577492	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3562996	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	4073876	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2832778	8.40	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	1999093	9.454	ppbv	100
3) Chlorodifluoromethane	2.97	51	1629634	8.412	ppbv	98
4) Chloromethane	3.12	50	781388	8.160	ppbv	98
5) Vinyl Chloride	3.24	62	780925	8.619	ppbv	96
6) Bromomethane	3.46	94	449666	8.877	ppbv	98
7) Chloroethane	3.54	64	273120	8.753	ppbv	99
8) Dichlorotetrafluoroethane	3.17	85	1814004	8.855	ppbv	99
9) Propene	2.99	41	733648	7.952	ppbv	99
10) Heptane	8.10	43	1883823	8.226	ppbv	98
11) Trichlorofluoromethane	3.93	101	1932283	8.988	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1179160	9.047	ppbv	98
13) Ethanol	3.59	45	109667	7.570	ppbv	94
14) Bromoethene	3.72	108	512297	8.632	ppbv	98
15) Acetone	3.83	43	1462246	7.569	ppbv	99
16) 1,3-Butadiene	3.31	39	762971	8.107	ppbv	97
17) tert-Butyl alcohol	4.27	59	1231623	7.725	ppbv	99
18) 1,1-Dichloroethene	4.27	96	504147	8.343	ppbv	91
19) Isopropyl Alcohol	3.95	45	848857	7.288	ppbv	100
20) Methylene Chloride	4.32	84	451029	7.315	ppbv	98
21) Allyl Chloride	4.39	41	901813	8.575	ppbv	97
22) trans-1,2-Dichloroethene	4.86	96	506794	9.078	ppbv	99
23) Vinyl Acetate	5.05	43	1990540	8.503	ppbv #	98
24) 1,1-Dichloroethane	4.99	63	1442198	8.505	ppbv	98
25) Ethyl Acetate	5.65	43	3160273	8.148	ppbv	100
26) Hexane	5.66	57	1286784	7.968	ppbv	98
27) Carbon Disulfide	4.53	76	1324560	10.258	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1744372	7.987	ppbv	97
29) Chloroform	5.73	83	2052811	8.878	ppbv	96
30) Cyclohexane	7.10	84	1068787	8.661	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	1307850	8.473	ppbv	95
32) 1,1,1-Trichloroethane	6.49	97	1995658	8.924	ppbv	100
34) 2-Butanone	5.22	43	1979545	7.544	ppbv	98
35) Carbon Tetrachloride	7.00	117	2072195	9.205	ppbv	96
36) Benzene	6.87	78	2680686	8.211	ppbv	99
37) 1,2-Dichloroethane	6.28	62	1615698	8.224	ppbv	99
38) Trichloroethene	7.81	130	924334	7.644	ppbv	97
39) 1,2-Dichloropropane	7.59	63	1086231	8.195	ppbv	96
40) 1,4-Dioxane	7.81	88	359922	7.506	ppbv #	24
41) Tetrahydrofuran	6.02	42	1178554	7.772	ppbv	98
42) Bromodichloromethane	7.77	83	2236410	9.057	ppbv	97
43) Methyl Methacrylate	7.99	69	1205732	8.691	ppbv	94

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Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

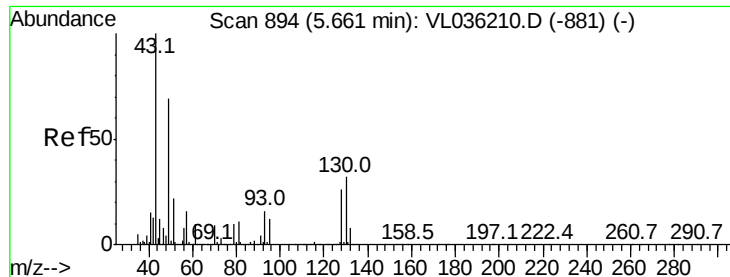
Quant Time: Feb 10 13:48:24 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 14 16:13:38 2021
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	4625295	7.713	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1300649	9.870	ppbv	100
46) cis-1,3-Dichloropropene	8.68	75	1569042	9.266	ppbv	98
47) 1,1,2-Trichloroethane	9.45	97	1066925	8.414	ppbv	94
48) Dibromochloromethane	10.28	129	1782459	9.608	ppbv	99
49) Bromoform	13.02	173	1465918	9.466	ppbv	99
50) 4-Methyl-2-Pentanone	8.72	43	3145085	8.039	ppbv	100
51) 2-Hexanone	10.11	43	2507713	8.125	ppbv #	97
52) Tetrachloroethene	11.20	164	870740	7.238	ppbv	97
53) Toluene	9.78	91	3002219	8.221	ppbv	100
54) 1,2-Dibromoethane	10.59	107	1599084	8.507	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.10	131	1322688	7.275	ppbv #	55
57) Chlorobenzene	12.13	112	2138147	6.689	ppbv	96
58) Ethyl Benzene	12.69	91	4110158	6.799	ppbv	98
59) m/p-Xylene	12.97	91	2913357	5.608	ppbv #	8
60) o-Xylene	13.67	91	3239543	6.470	ppbv	100
61) Styrene	13.51	104	2331575	7.374	ppbv	99
62) Isopropylbenzene	14.64	105	4833627	6.493	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	2339758	6.276	ppbv	100
64) n-propylbenzene	15.54	120	1265466	6.918	ppbv	98
65) tert-Butylbenzene	16.72	119	4103854	6.505	ppbv	99
66) Benzyl Chloride	16.97	91	1459832	9.058	ppbv	99
67) sec-Butylbenzene	17.27	105	5931657	6.334	ppbv	100
69) p-Isopropyltoluene	17.63	119	4827278	6.500	ppbv	100
70) n-Butylbenzene	18.53	91	5126311	6.478	ppbv	99
71) 2-Chlorotoluene	15.43	91	3850774	6.581	ppbv	100
72) 4-Ethyltoluene	15.82	105	3807919	6.739	ppbv	98
73) 1,3,5-Trimethylbenzene	15.98	105	3556689	6.603	ppbv	97
74) 1,2,4-Trimethylbenzene	16.74	105	3616750	6.546	ppbv	97
75) 1,3-Dichlorobenzene	16.98	146	1950866	6.584	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	1907171	6.514	ppbv	99
77) 1,2-Dichlorobenzene	17.79	146	1903484	6.577	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	1317755	5.692	ppbv	99
79) Naphthalene	22.17	128	1190045	3.685	ppbv	99
80) Naphthalene,2-methyl-	24.96	142	425844	6.180	ppbv	95
81) 1,2,4-Trichlorobenzene	21.90	180	1309391	6.944	ppbv	99

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

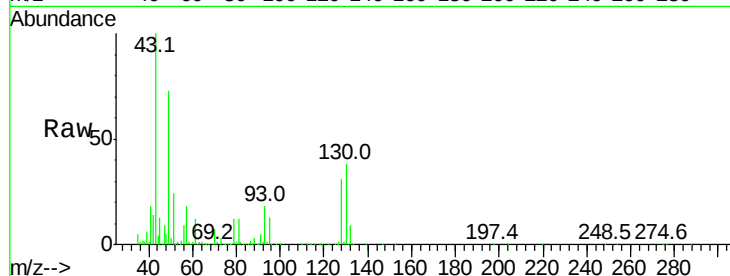
Tgt Ion: 49 Resp: 1577492

Ion Ratio Lower Upper

49 100

128 41.7 20.1 60.2

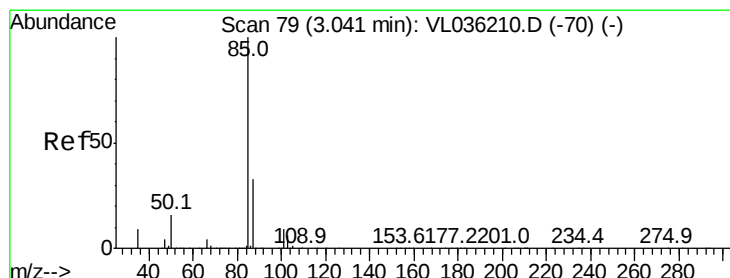
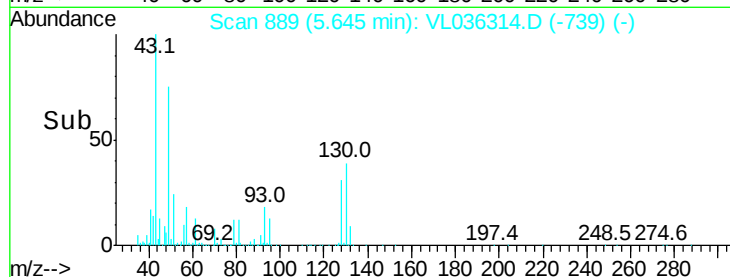
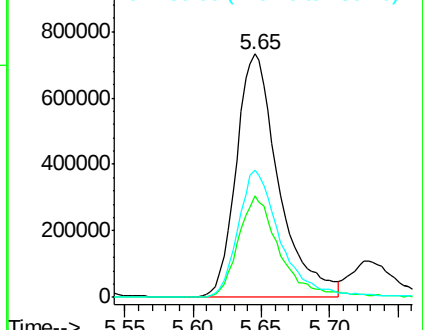
130 53.4 25.3 75.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 9.454 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL036314.D

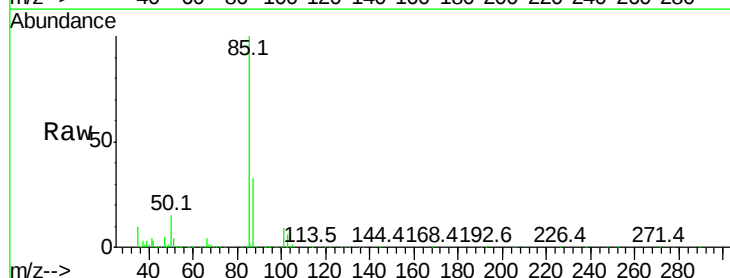
Acq: 10 Feb 2021 11:19

Tgt Ion: 85 Resp: 1999093

Ion Ratio Lower Upper

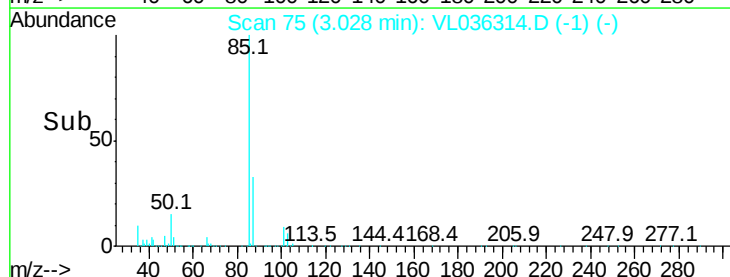
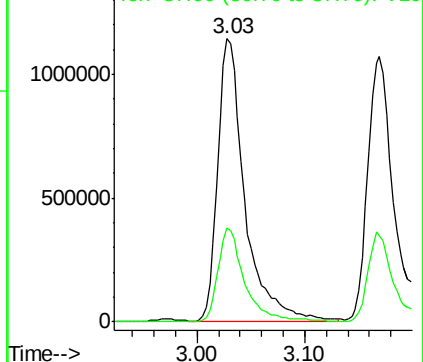
85 100

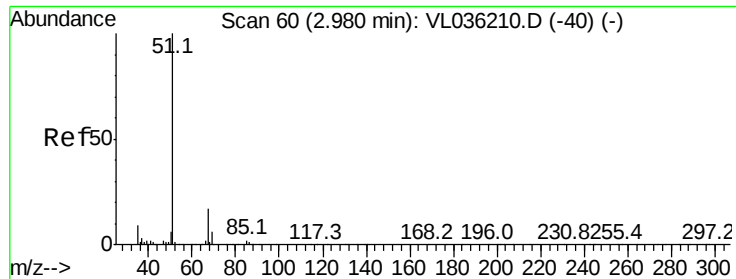
87 33.1 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.412 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

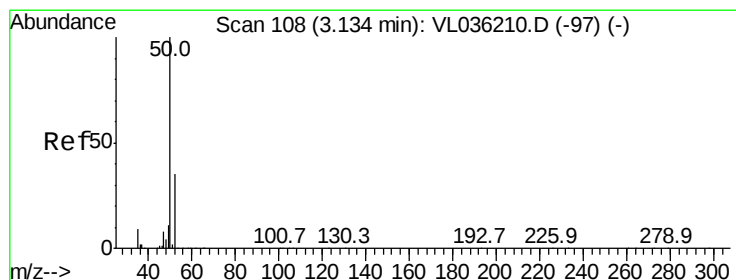
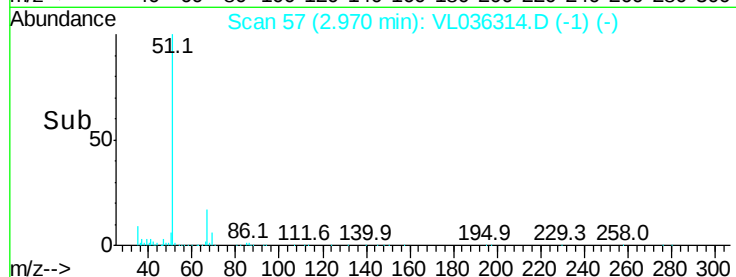
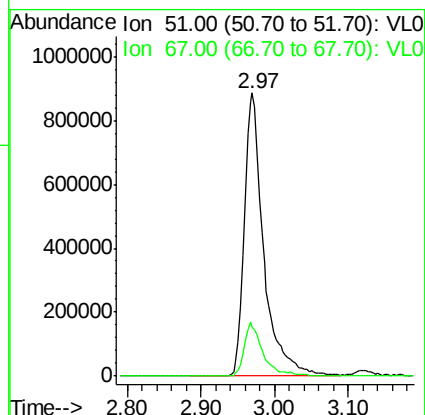
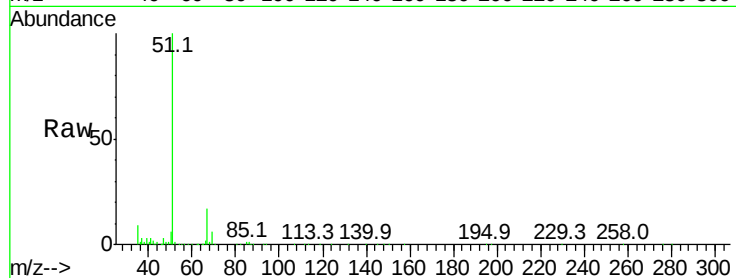
VSTDICCC010

Tgt Ion: 51 Resp: 1629634

Ion Ratio Lower Upper

51 100

67 18.4 14.0 21.0



#4

Chloromethane

Concen: 8.160 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL036314.D

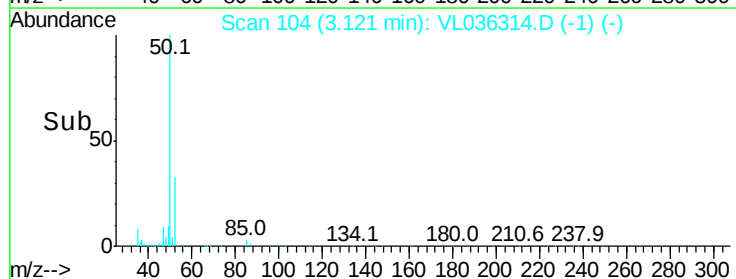
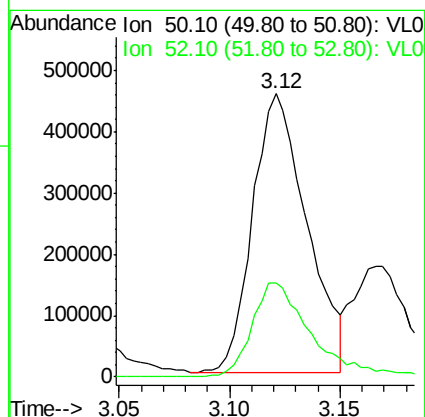
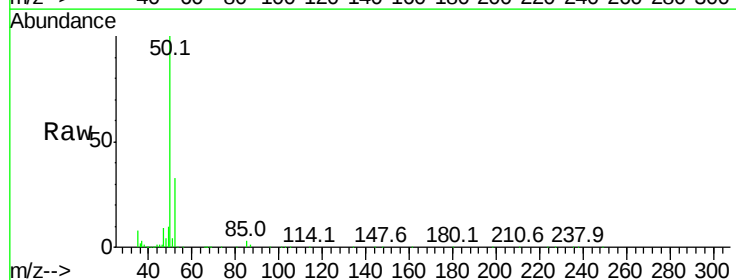
Acq: 10 Feb 2021 11:19

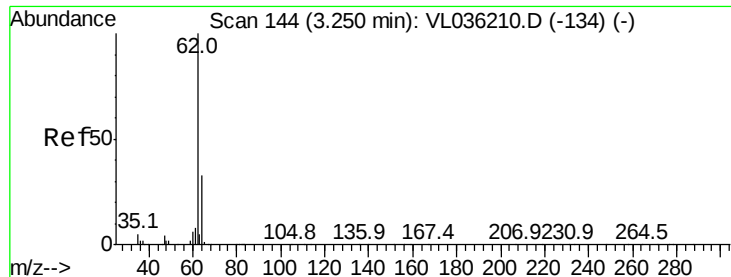
Tgt Ion: 50 Resp: 781388

Ion Ratio Lower Upper

50 100

52 33.7 27.8 41.8





#5

Vinyl Chloride

Concen: 8.619 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.01 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

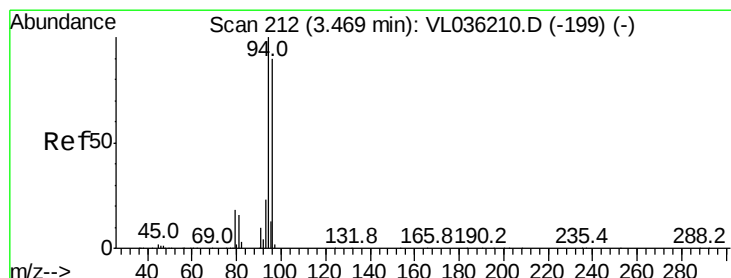
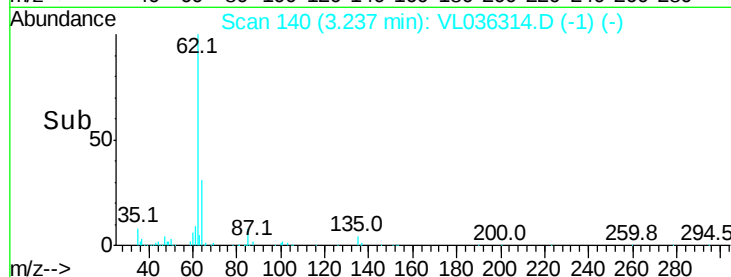
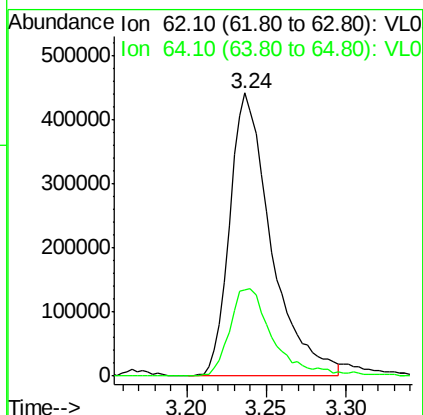
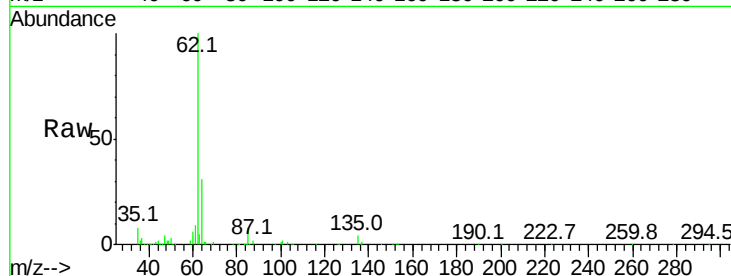
VSTDICCC010

Tgt Ion: 62 Resp: 780925

Ion Ratio Lower Upper

62 100

64 30.5 26.2 39.2



#6

Bromomethane

Concen: 8.877 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.01 min

Lab File: VL036314.D

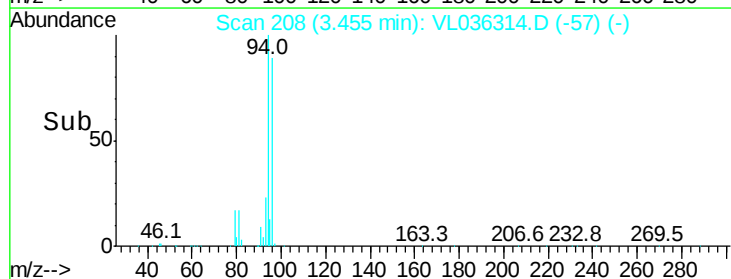
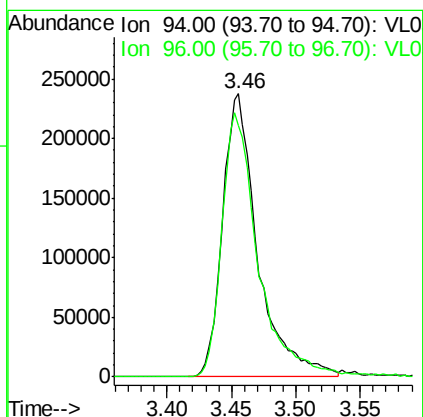
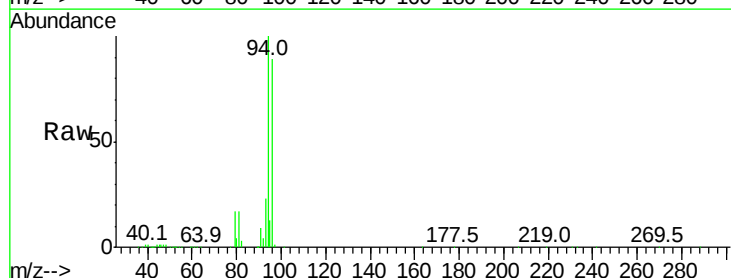
Acq: 10 Feb 2021 11:19

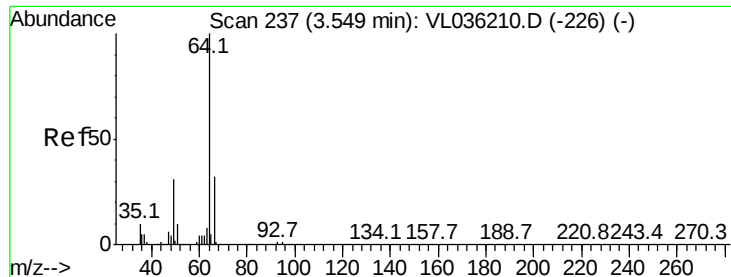
Tgt Ion: 94 Resp: 449666

Ion Ratio Lower Upper

94 100

96 88.5 71.9 107.9





#7

Chloroethane

Concen: 8.753 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.01 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

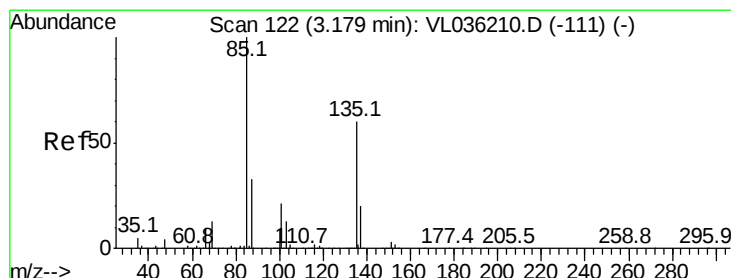
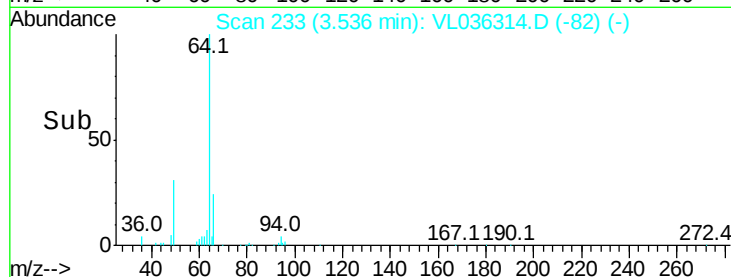
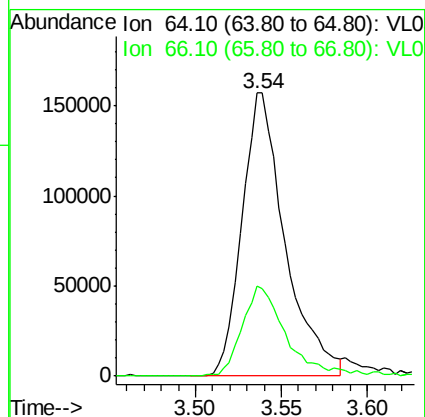
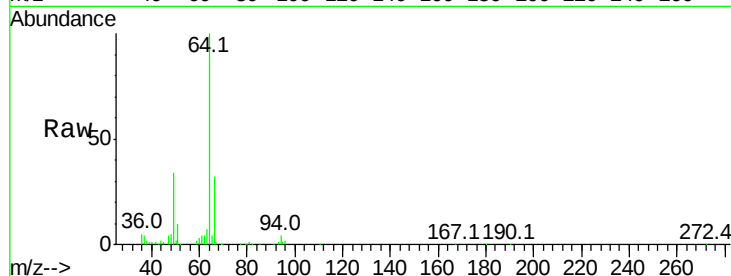
VSTDICCC010

Tgt Ion: 64 Resp: 273120

Ion Ratio Lower Upper

64 100

66 32.0 25.2 37.8



#8

Dichlorotetrafluoroethane

Concen: 8.855 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL036314.D

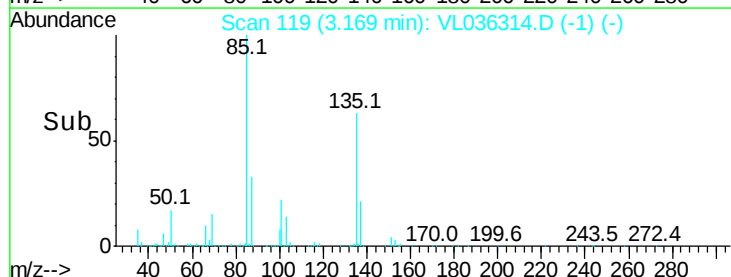
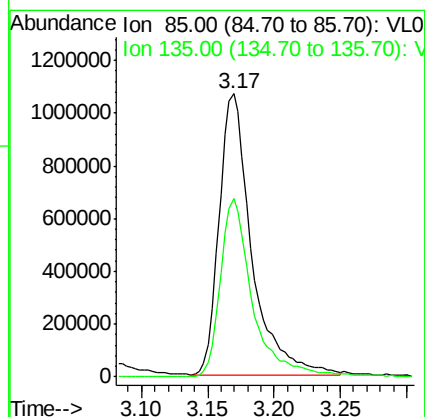
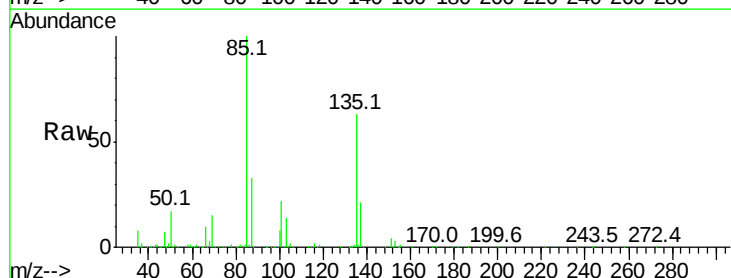
Acq: 10 Feb 2021 11:19

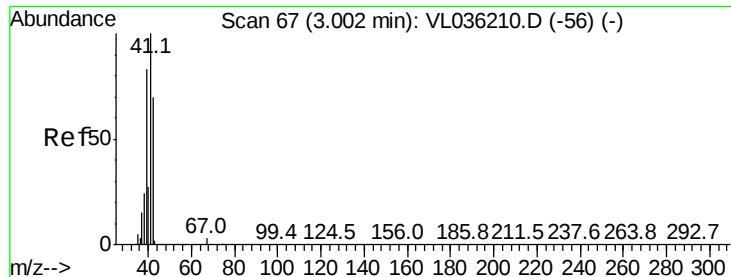
Tgt Ion: 85 Resp: 1814004

Ion Ratio Lower Upper

85 100

135 63.9 51.5 77.3





#9

Propene

Concen: 7.952 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.01 min

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Instrument :

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ClientSampleId :

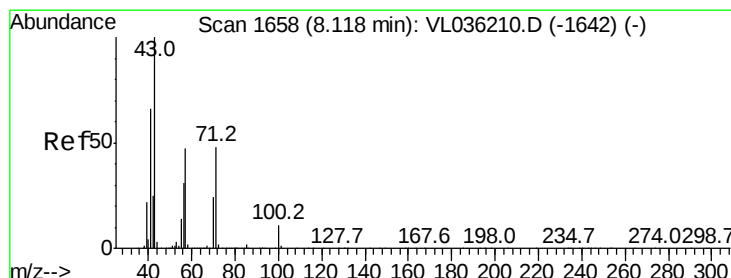
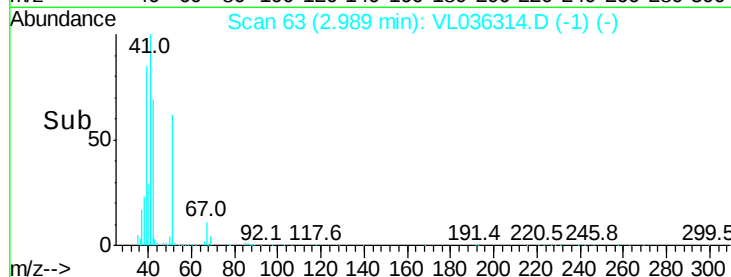
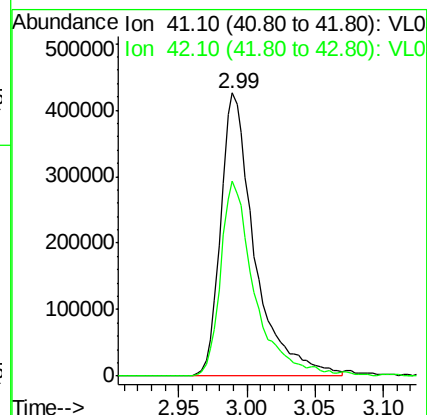
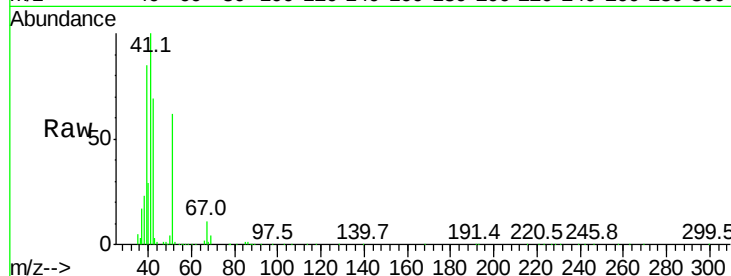
VSTDICCC010

Tgt Ion: 41 Resp: 733648

Ion Ratio Lower Upper

41 100

42 70.2 57.1 85.7



#10

Heptane

Concen: 8.226 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.02 min

Lab File: VL036314.D

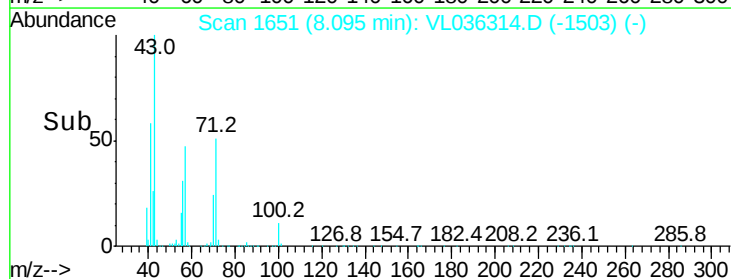
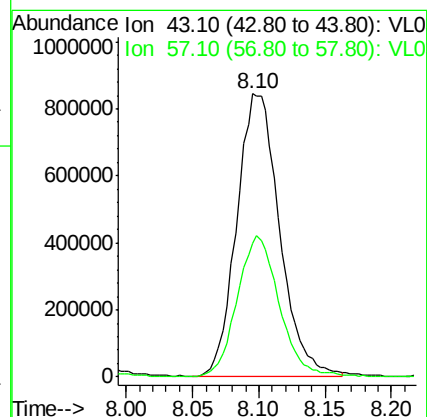
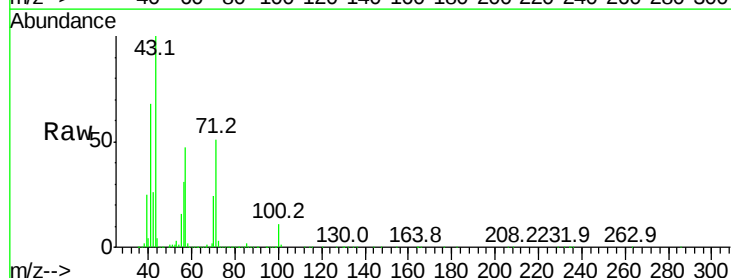
Acq: 10 Feb 2021 11:19

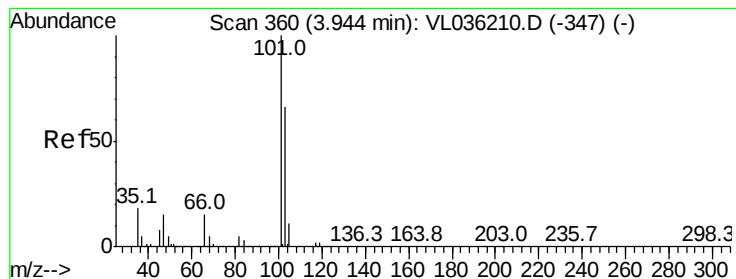
Tgt Ion: 43 Resp: 1883823

Ion Ratio Lower Upper

43 100

57 49.3 38.1 57.1





#11

Trichlorofluoromethane

Concen: 8.988 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.02 min

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ClientSampleId :

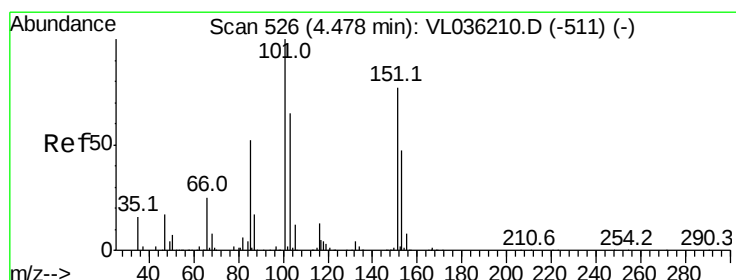
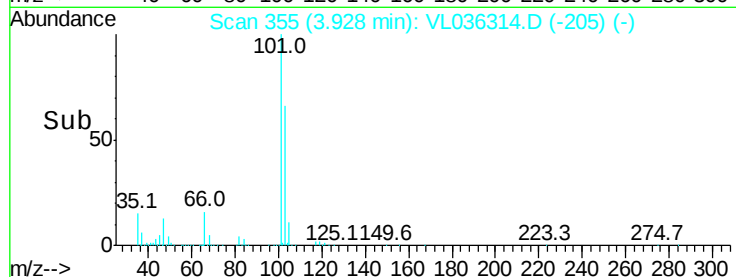
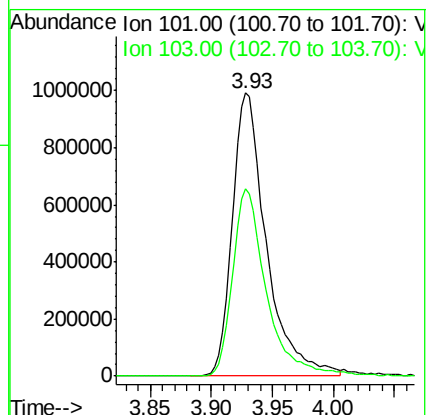
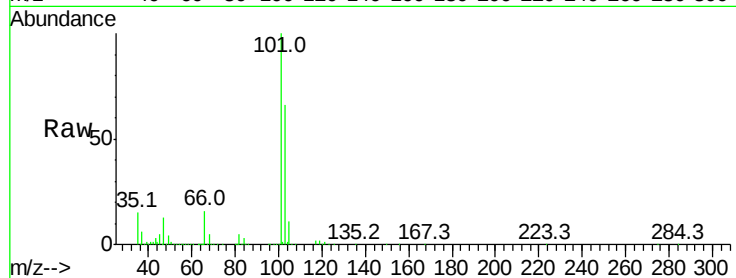
VSTDICCC010

Tgt Ion:101 Resp: 1932283

Ion Ratio Lower Upper

101 100

103 66.1 52.6 78.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.047 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.02 min

Lab File: VL036314.D

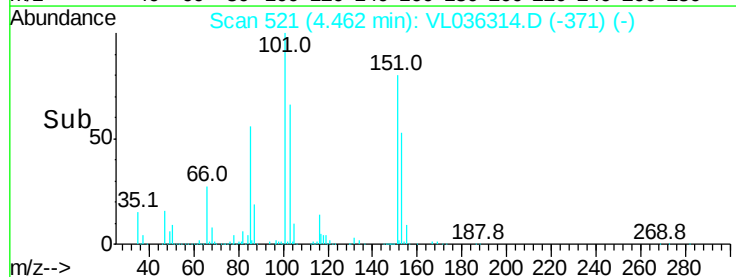
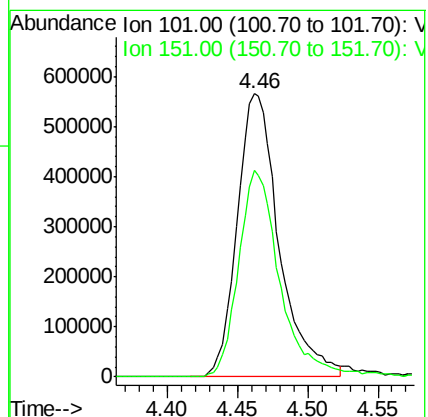
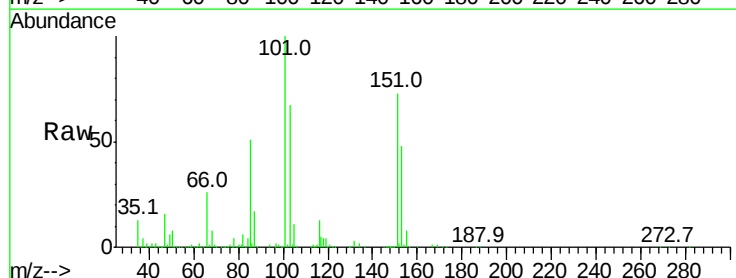
Acq: 10 Feb 2021 11:19

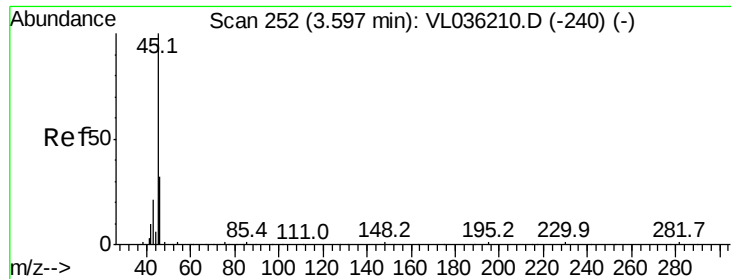
Tgt Ion:101 Resp: 1179160

Ion Ratio Lower Upper

101 100

151 72.8 59.8 89.6

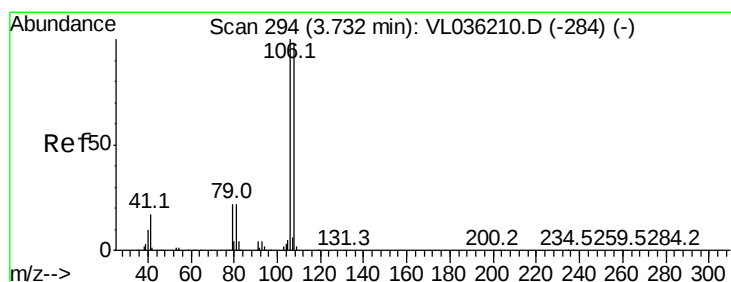
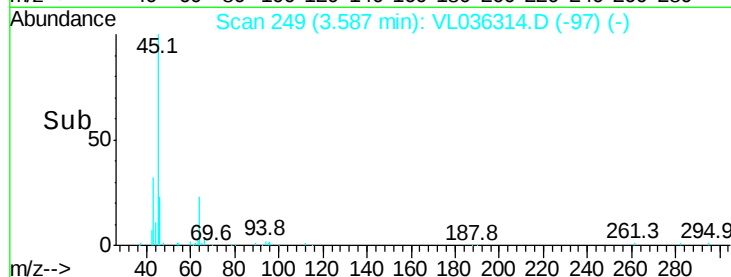
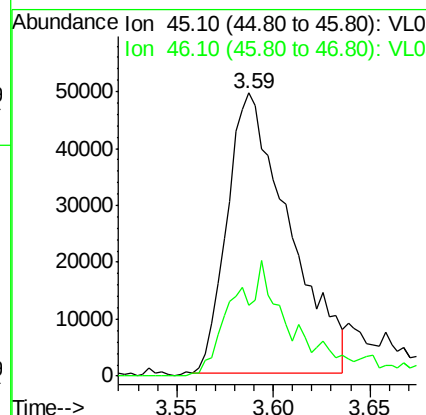
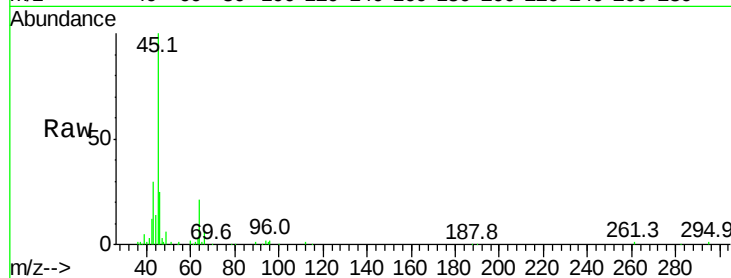




#13
Ethanol
Concen: 7.570 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.01 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

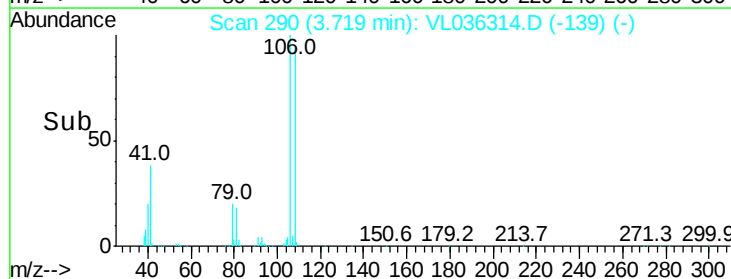
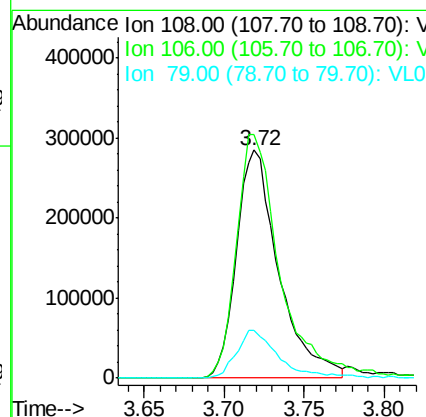
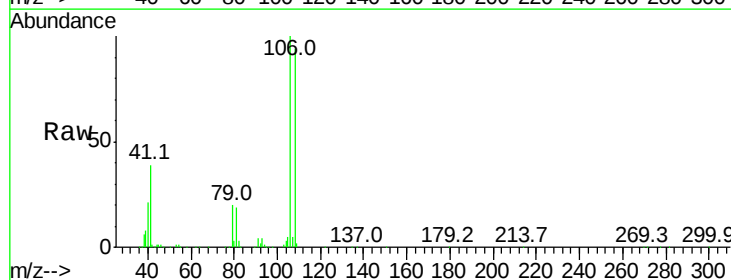
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

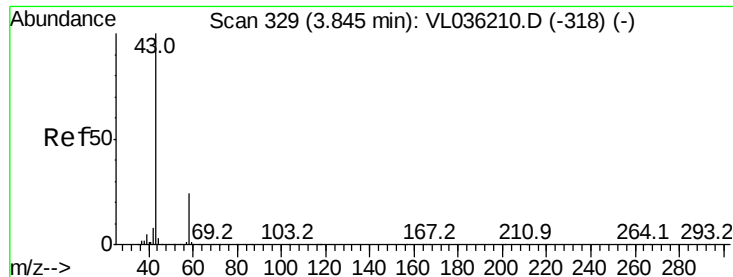
Tgt Ion: 45 Resp: 109667
Ion Ratio Lower Upper
45 100
46 44.2 19.2 77.0



#14
Bromoethene
Concen: 8.632 ppbv
RT: 3.72 min Scan# 290
Delta R.T. -0.01 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

Tgt Ion: 108 Resp: 512297
Ion Ratio Lower Upper
108 100
106 112.3 91.4 137.2
79 21.4 18.3 27.5





#15

Acetone

Concen: 7.569 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

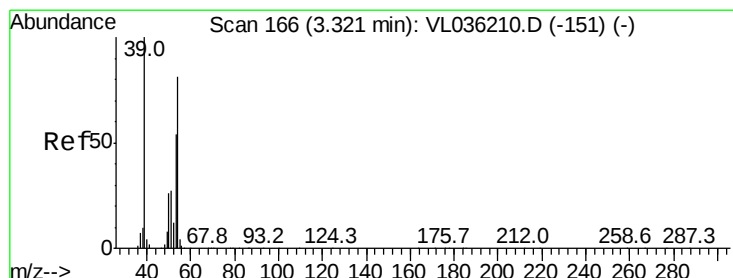
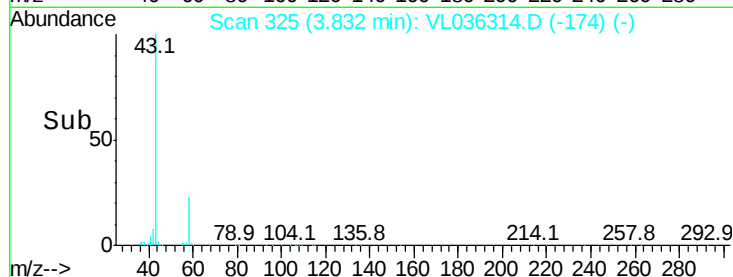
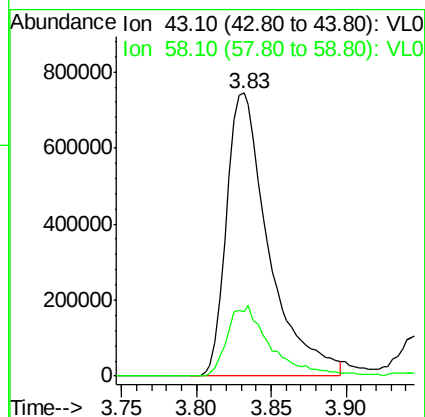
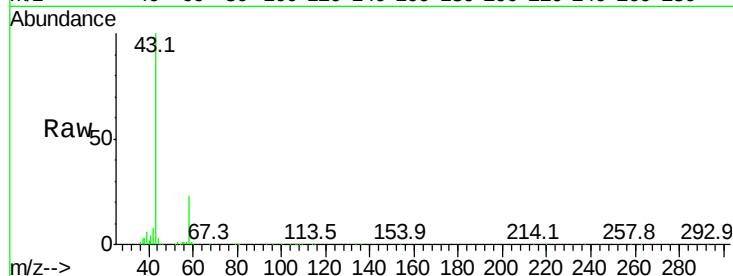
VSTDICCC010

Tgt Ion: 43 Resp: 1462246

Ion Ratio Lower Upper

43 100

58 25.4 20.9 31.3



#16

1,3-Butadiene

Concen: 8.107 ppbv

RT: 3.31 min Scan# 162

Delta R.T. -0.01 min

Lab File: VL036314.D

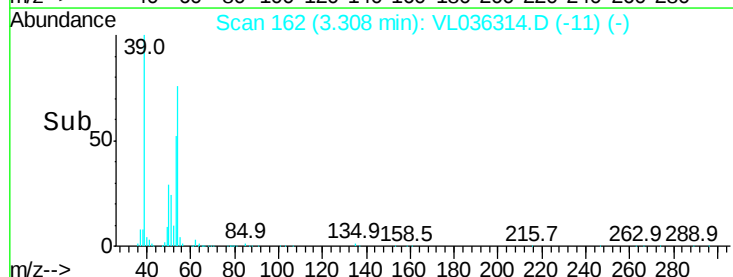
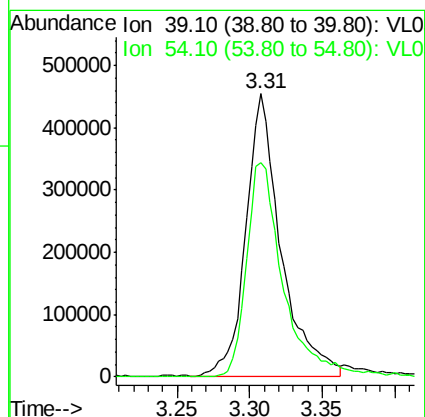
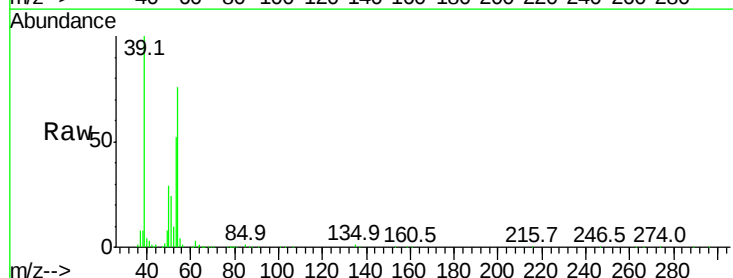
Acq: 10 Feb 2021 11:19

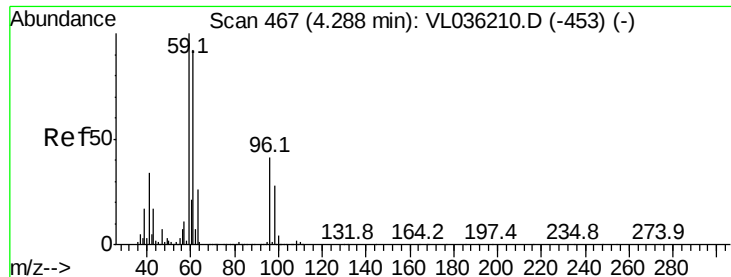
Tgt Ion: 39 Resp: 762971

Ion Ratio Lower Upper

39 100

54 80.5 62.5 93.7





#17

tert-Butyl alcohol

Concen: 7.725 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

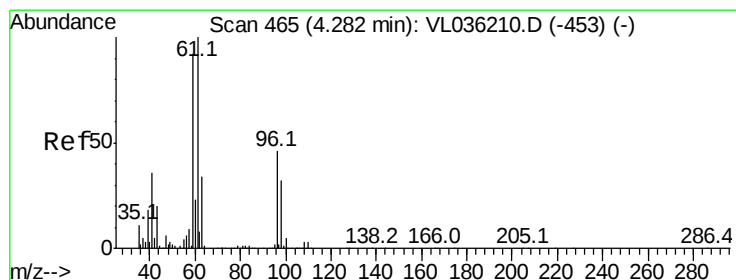
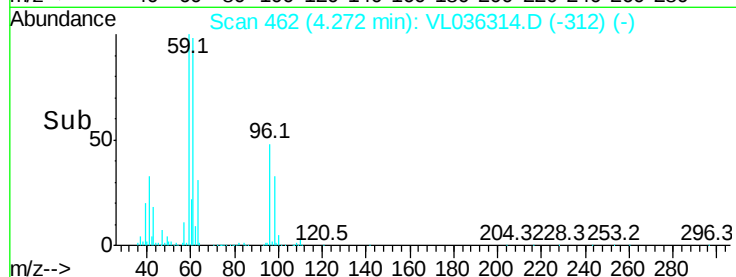
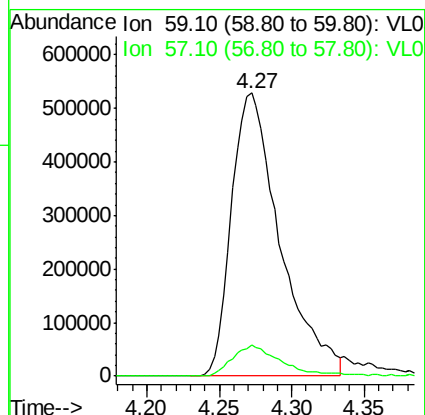
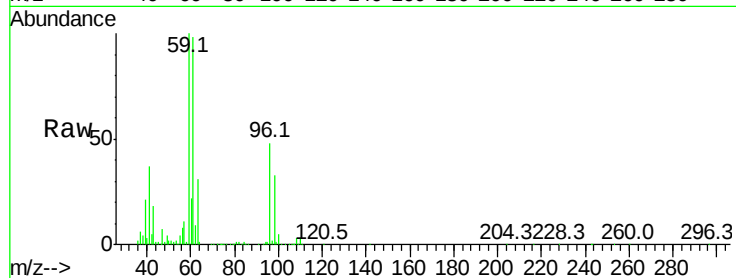
VSTDICCC010

Tgt Ion: 59 Resp: 1231623

Ion Ratio Lower Upper

59 100

57 11.7 9.2 13.8



#18

1,1-Dichloroethene

Concen: 8.343 ppbv

RT: 4.27 min Scan# 461

Delta R.T. -0.01 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

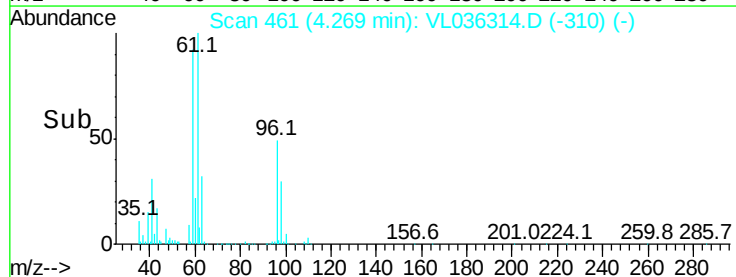
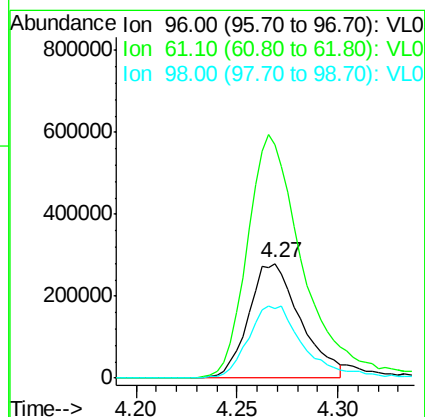
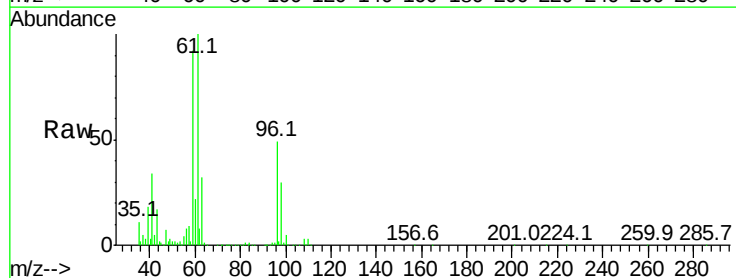
Tgt Ion: 96 Resp: 504147

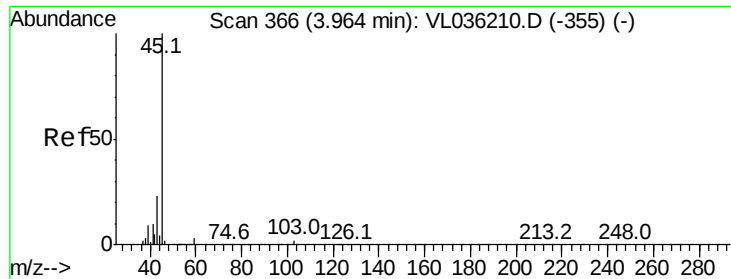
Ion Ratio Lower Upper

96 100

61 203.1 173.4 260.0

98 60.6 54.9 82.3





#19

Isopropyl Alcohol

Concen: 7.288 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

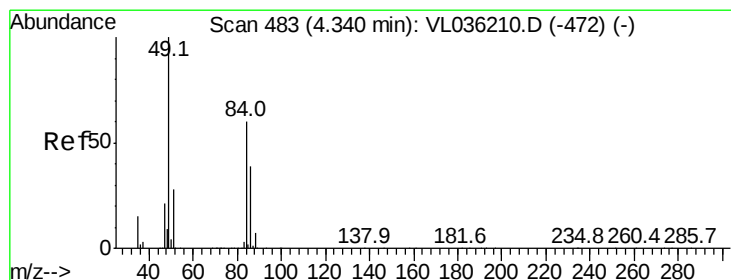
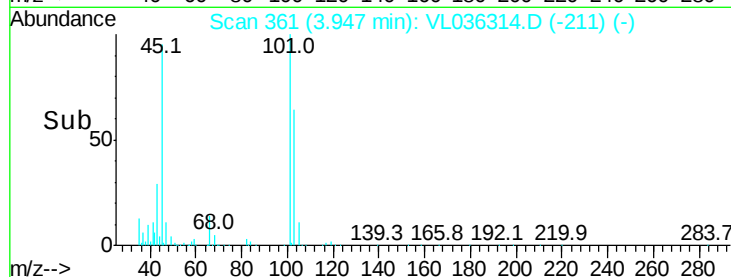
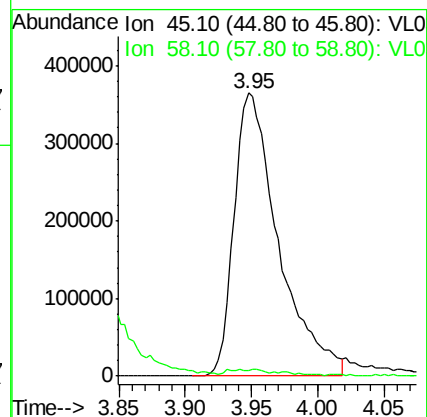
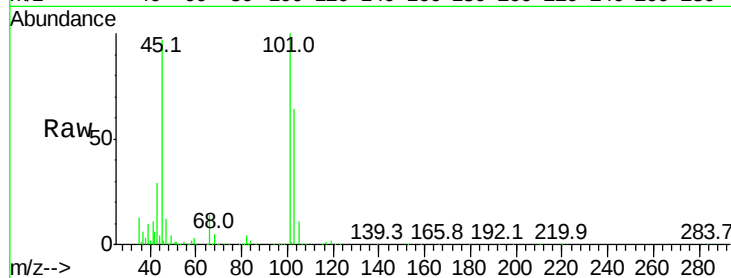
VSTDICCC010

Tgt Ion: 45 Resp: 848857

Ion Ratio Lower Upper

45 100

58 2.4 1.9 2.9



#20

Methylene Chloride

Concen: 7.315 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Tgt Ion: 84 Resp: 451029

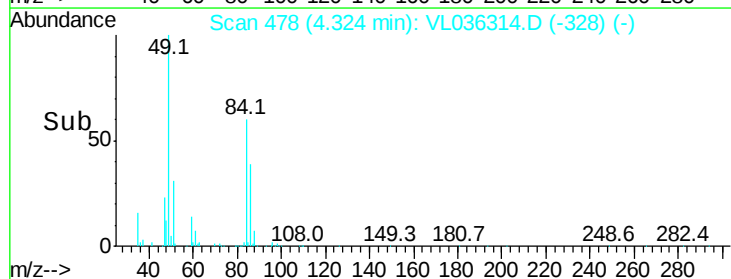
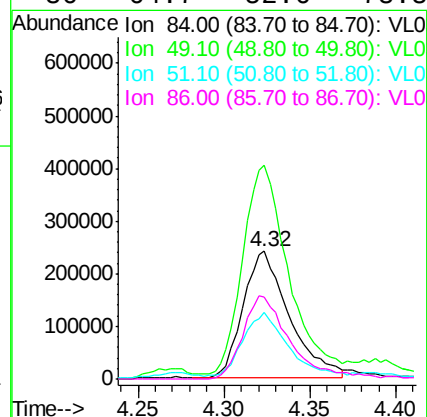
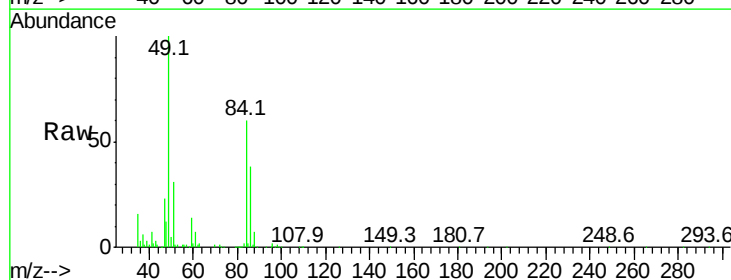
Ion Ratio Lower Upper

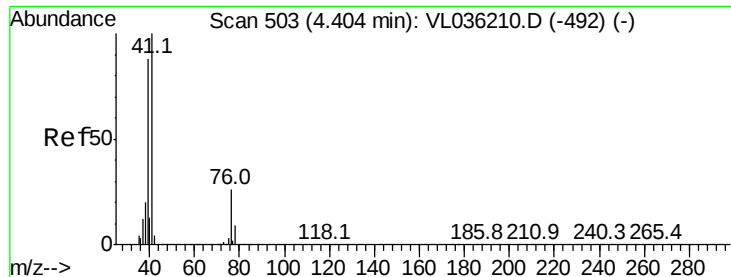
84 100

49 163.9 134.1 201.1

51 48.9 37.4 56.0

86 64.7 52.6 78.8





#21

Allyl Chloride

Concen: 8.575 ppbv

RT: 4.39 min Scan# 499

Delta R.T. -0.01 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

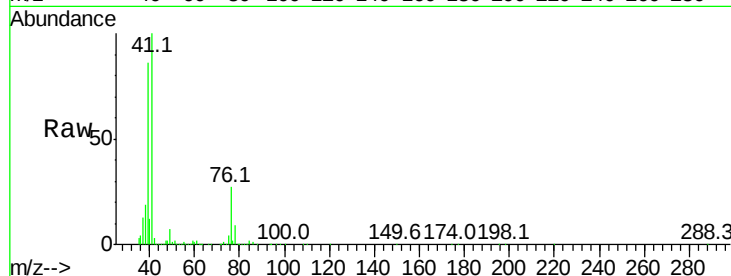
Tgt Ion: 41 Resp: 901813

Ion Ratio Lower Upper

41 100

76 27.5 20.5 30.7

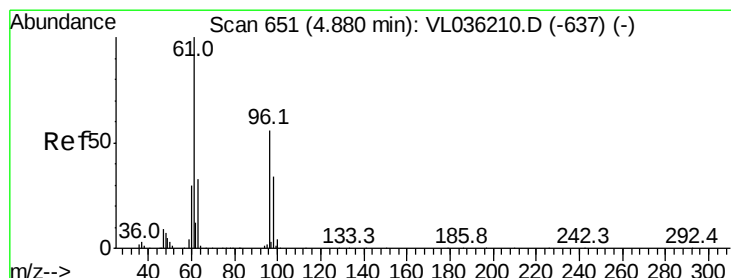
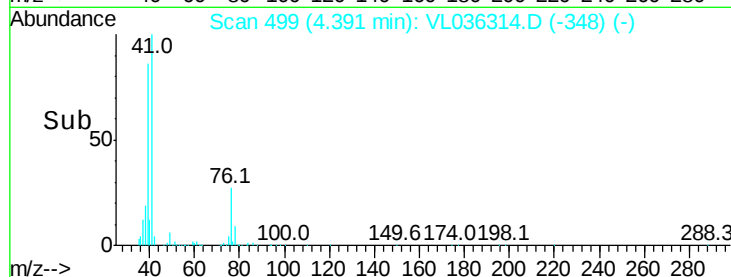
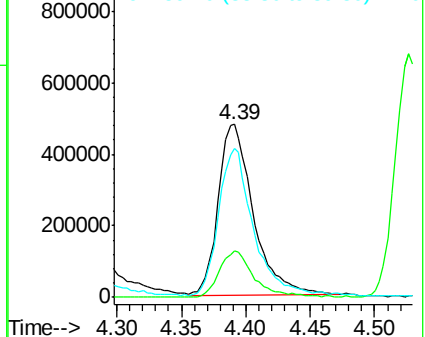
39 87.7 67.8 101.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.078 ppbv

RT: 4.86 min Scan# 646

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

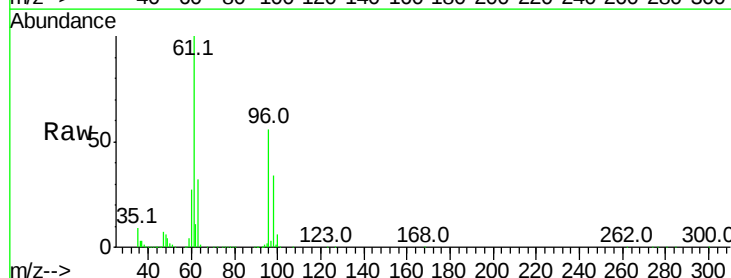
Tgt Ion: 96 Resp: 506794

Ion Ratio Lower Upper

96 100

61 179.6 142.7 214.1

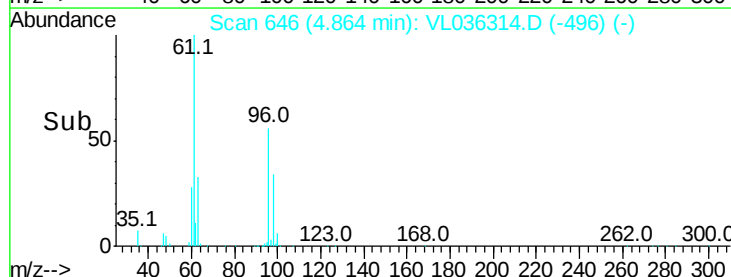
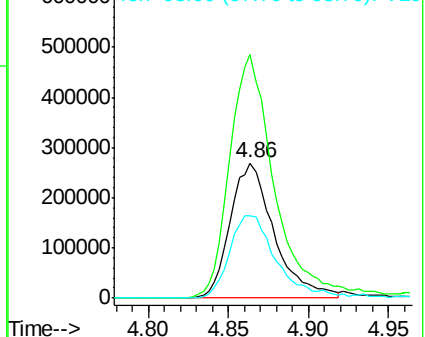
98 60.6 48.7 73.1

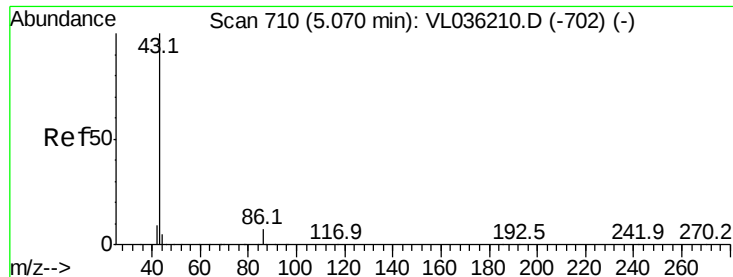


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 8.503 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 1990540

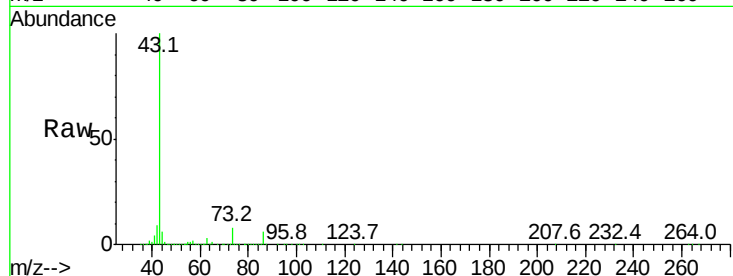
Ion	Ratio	Lower	Upper
43	100		
86	6.0	4.9	7.3
42	9.2	7.8	11.6
44	6.0	3.7	5.5#

43 100

86 6.0 4.9 7.3

42 9.2 7.8 11.6

44 6.0 3.7 5.5#



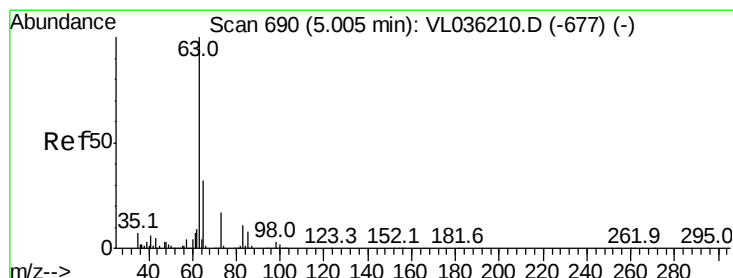
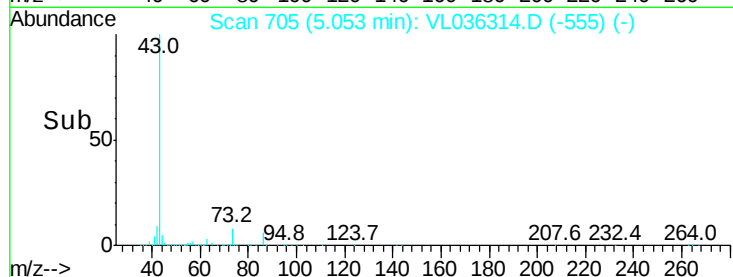
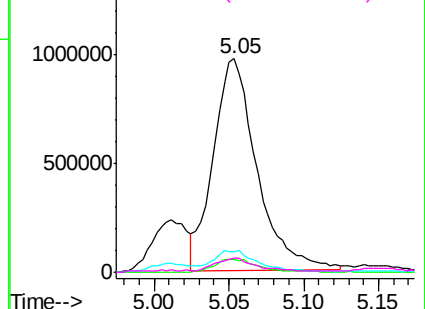
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.505 ppbv

RT: 4.99 min Scan# 685

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

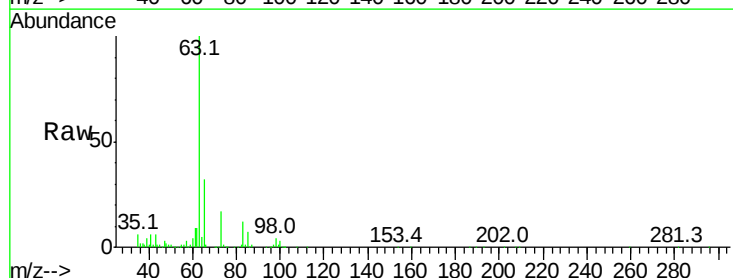
Tgt Ion: 63 Resp: 1442198

Ion	Ratio	Lower	Upper
63	100		
98	4.0	1.7	5.1
100	2.9	1.1	3.1

63 100

98 4.0 1.7 5.1

100 2.9 1.1 3.1

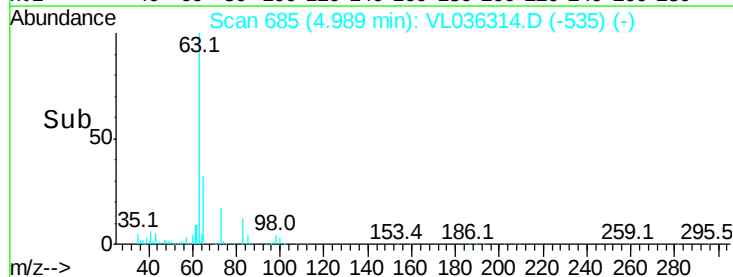
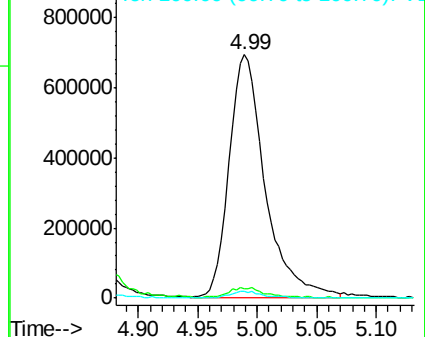


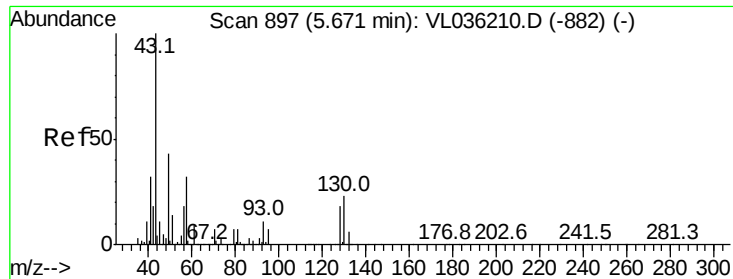
Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.148 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 3160273

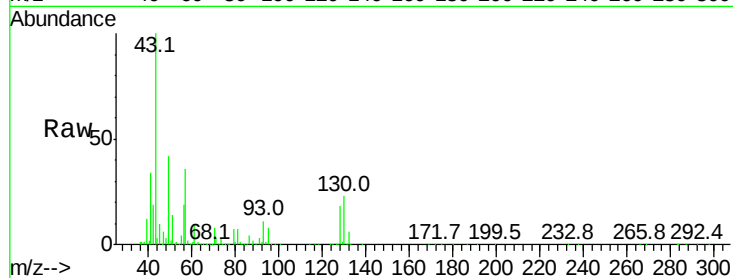
Ion Ratio Lower Upper

43 100

45 10.4 8.3 12.5

61 9.1 7.4 11.2

70 6.7 5.5 8.3

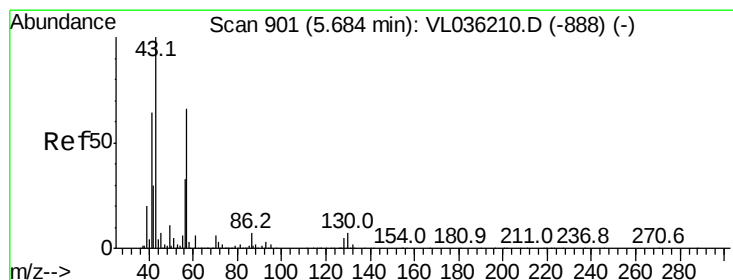
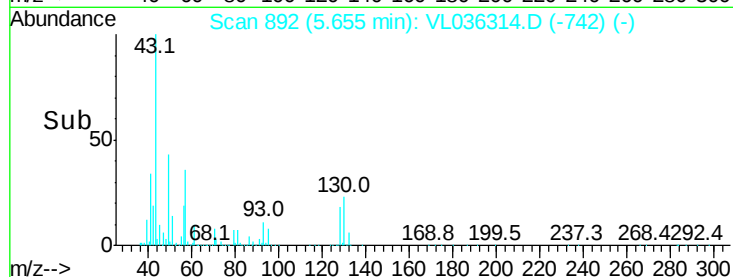
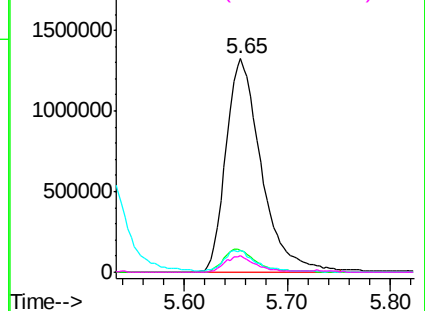


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 7.968 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Tgt Ion: 57 Resp: 1286784

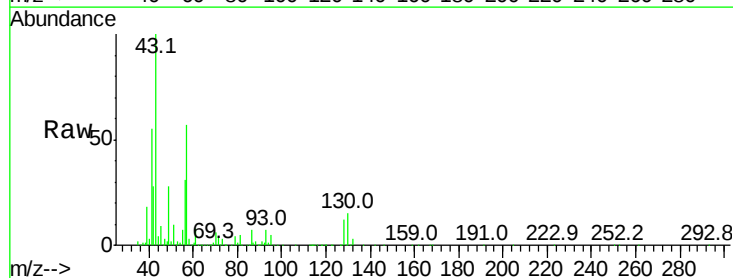
Ion Ratio Lower Upper

57 100

41 102.1 83.0 124.6

43 248.9 202.4 303.6

56 55.0 43.4 65.0

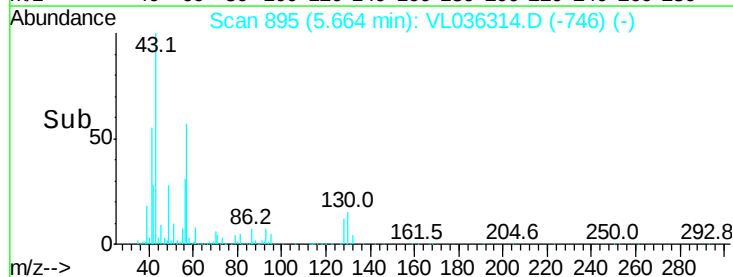
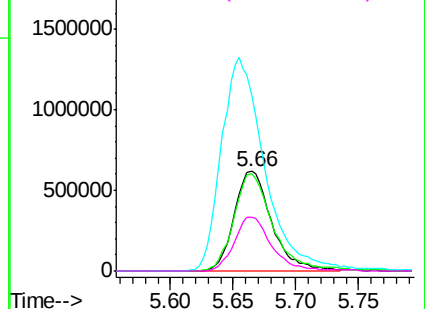


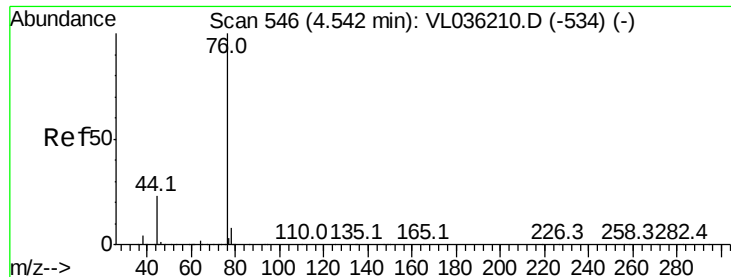
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.258 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

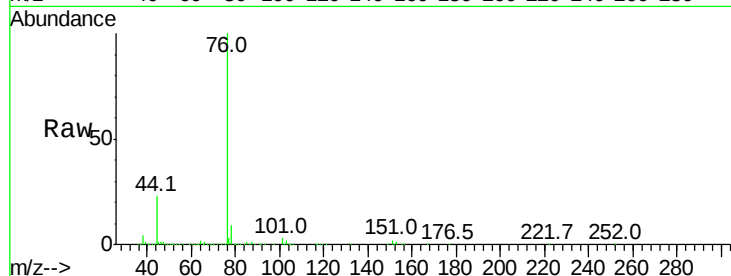
Tgt Ion: 76 Resp: 1324560

Ion Ratio Lower Upper

76 100

44 23.0 19.0 28.6

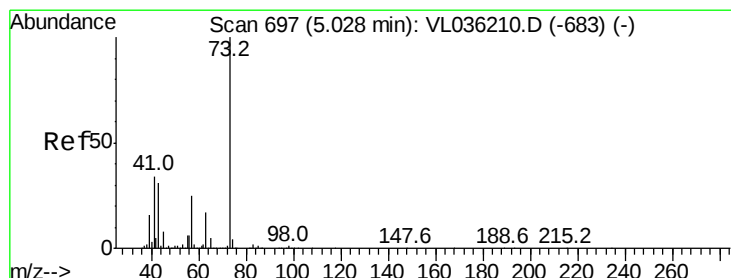
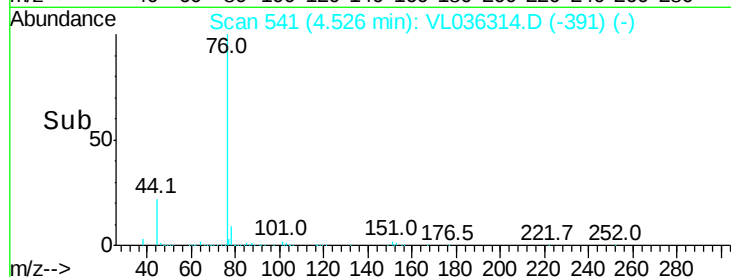
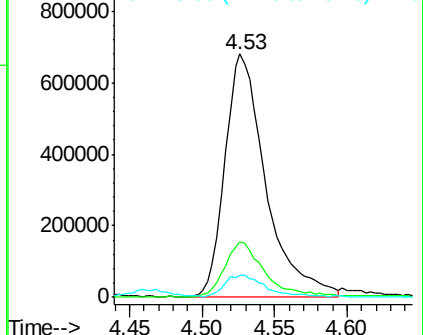
78 10.0 8.0 12.0



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 7.987 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.02 min

Lab File: VL036314.D

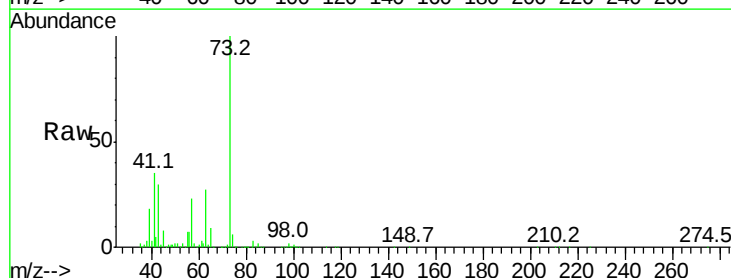
Acq: 10 Feb 2021 11:19

Tgt Ion: 73 Resp: 1744372

Ion Ratio Lower Upper

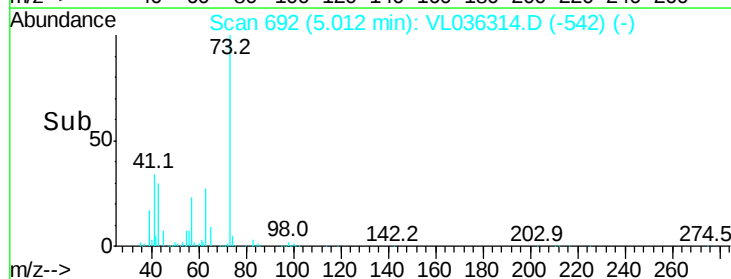
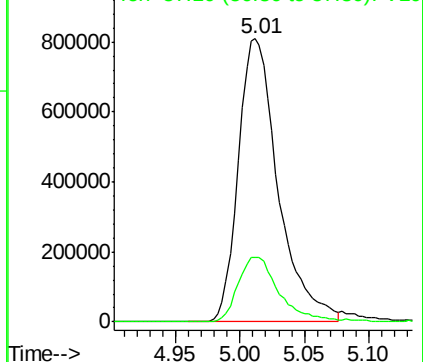
73 100

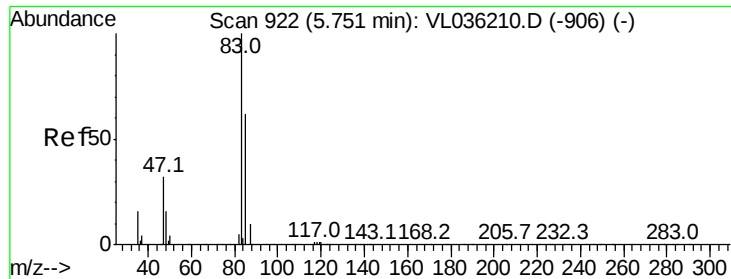
57 24.0 20.4 30.6



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

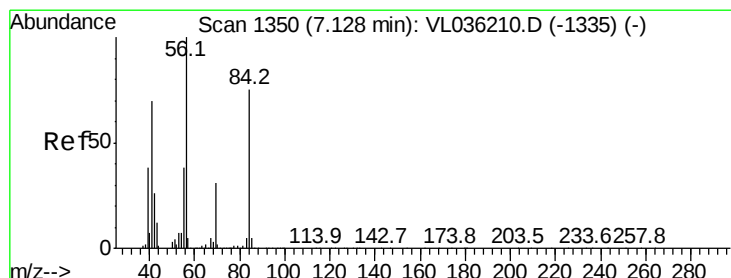
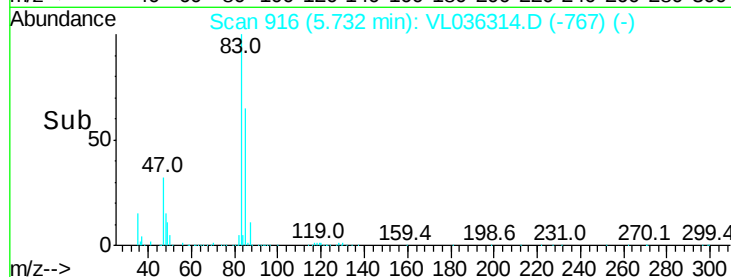
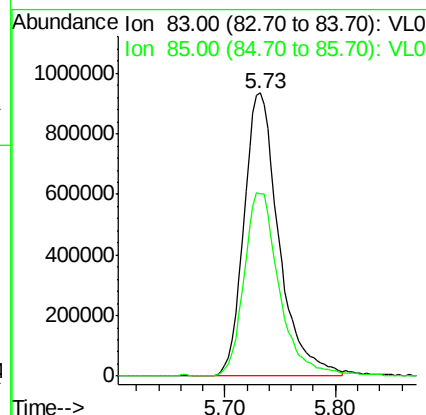
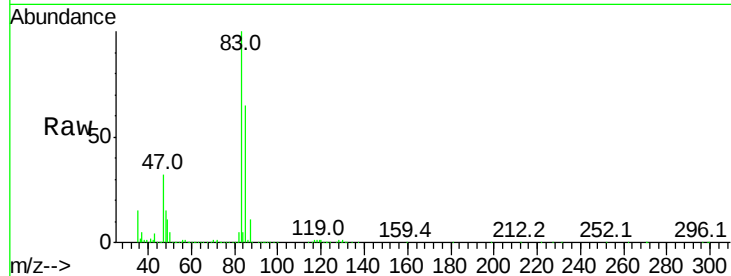




#29
Chloroform
Concen: 8.878 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.02 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

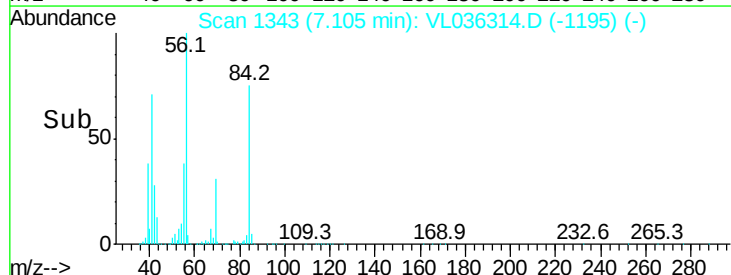
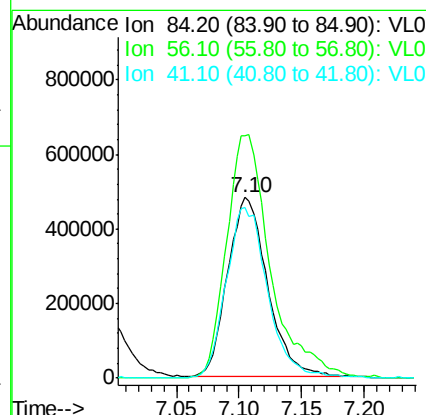
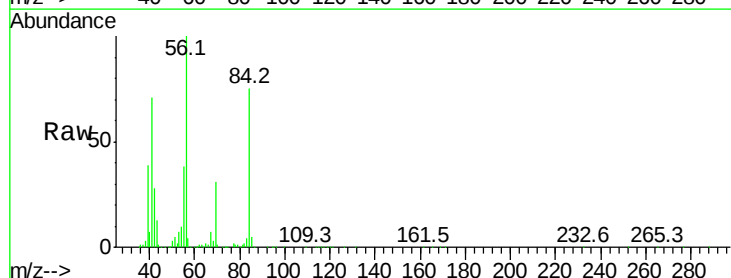
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

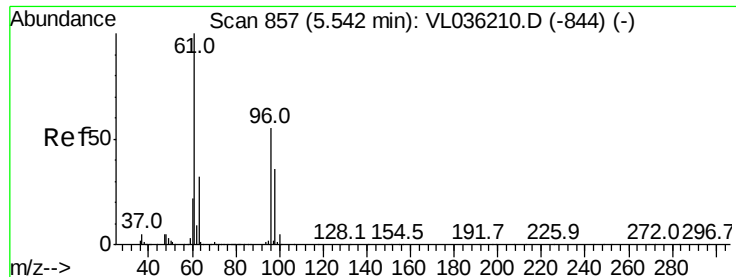
Tgt Ion: 83 Resp: 2052811
Ion Ratio Lower Upper
83 100
85 64.3 49.3 73.9



#30
Cyclohexane
Concen: 8.661 ppbv
RT: 7.10 min Scan# 1343
Delta R.T. -0.02 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

Tgt Ion: 84 Resp: 1068787
Ion Ratio Lower Upper
84 100
56 150.3 119.4 179.0
41 99.6 79.4 119.0



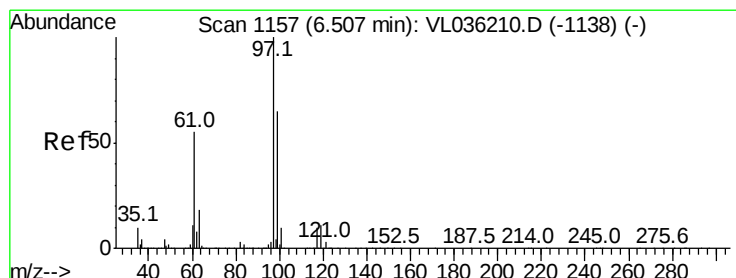
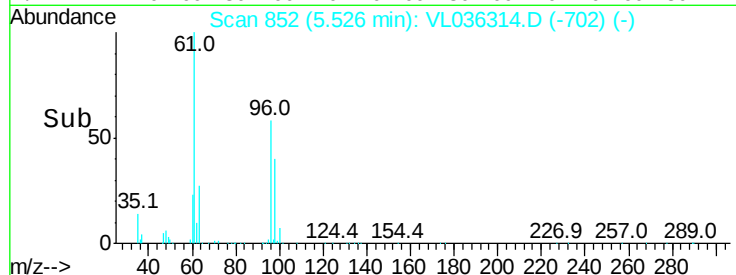
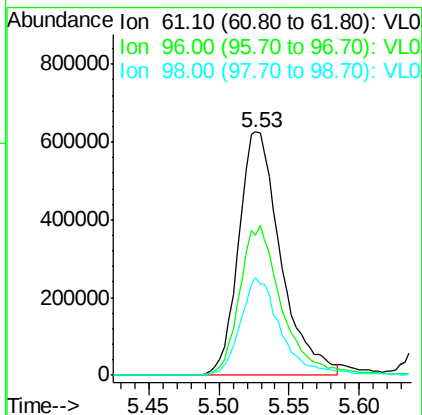
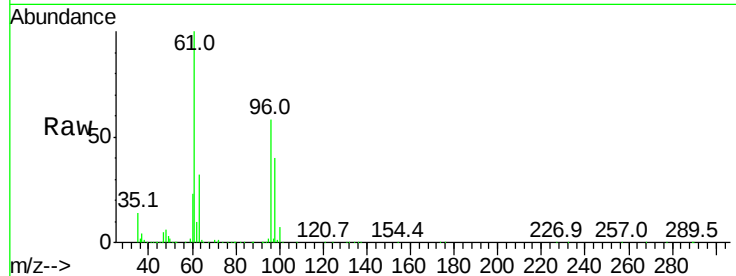


#31

cis-1,2-Dichloroethene
Concen: 8.473 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.02 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

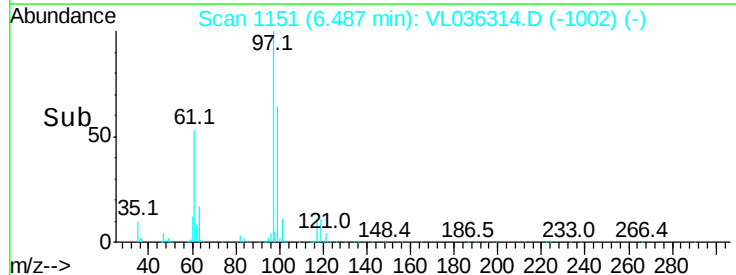
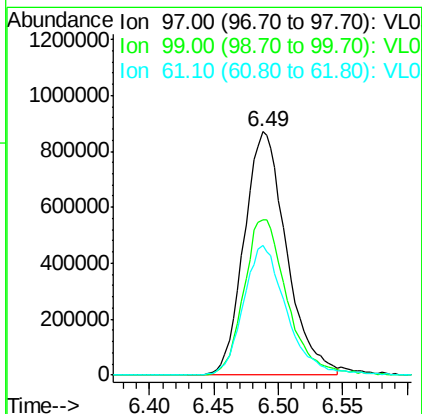
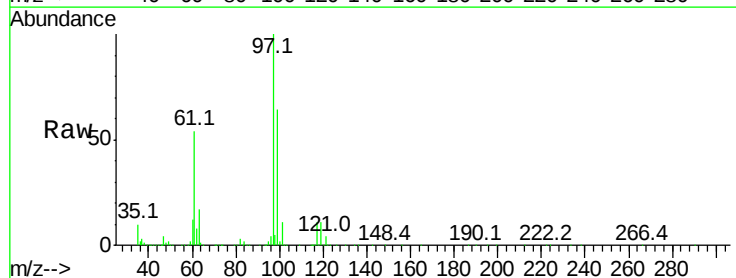
Tgt Ion: 61 Resp: 1307850
Ion Ratio Lower Upper
61 100
96 57.5 44.1 66.1
98 39.9 28.6 42.8

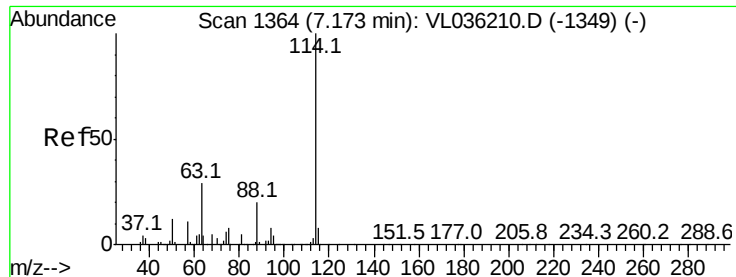


#32

1,1,1-Trichloroethane
Concen: 8.924 ppbv
RT: 6.49 min Scan# 1151
Delta R.T. -0.02 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

Tgt Ion: 97 Resp: 1995658
Ion Ratio Lower Upper
97 100
99 65.3 52.0 78.0
61 54.1 43.6 65.4

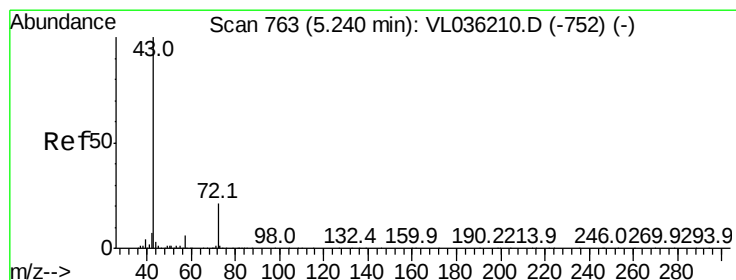
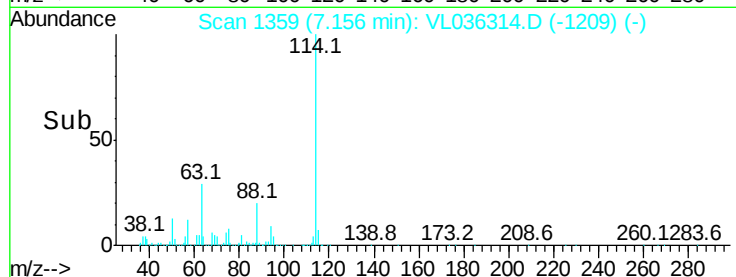
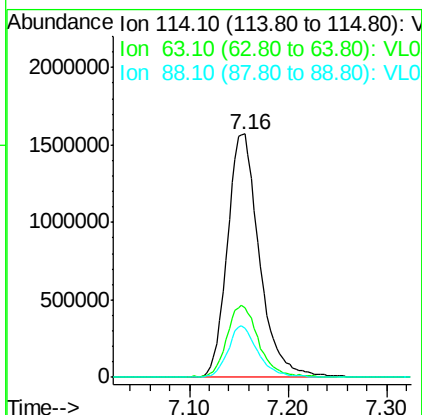
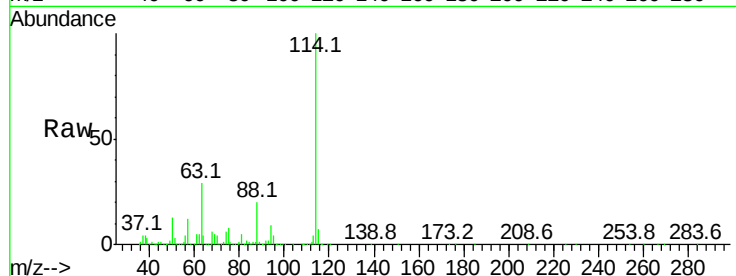




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL036314.D
 Acq: 10 Feb 2021 11:19

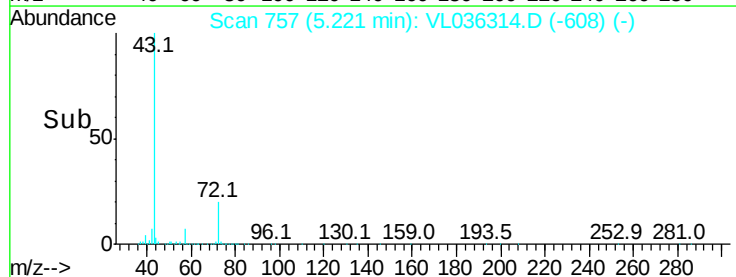
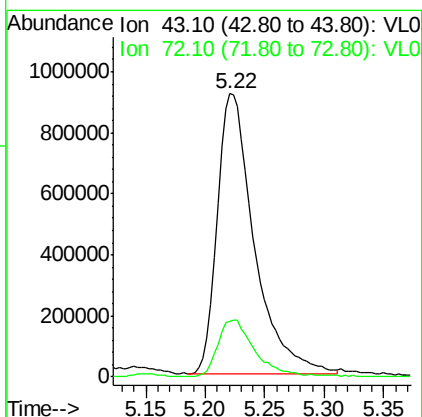
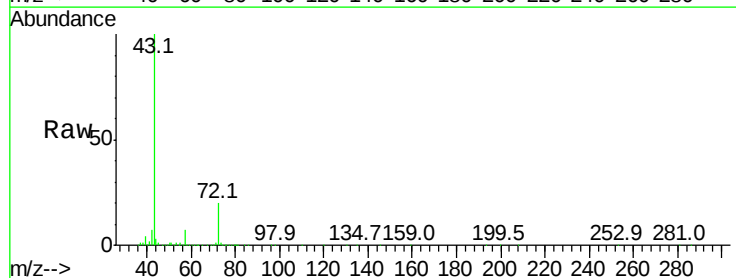
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

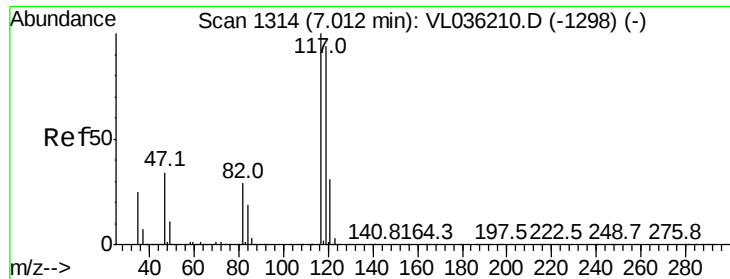
Tgt Ion:114 Resp: 3562996
 Ion Ratio Lower Upper
 114 100
 63 30.1 24.7 37.1
 88 20.0 16.6 24.8



#34
 2-Butanone
 Concen: 7.544 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.02 min
 Lab File: VL036314.D
 Acq: 10 Feb 2021 11:19

Tgt Ion: 43 Resp: 1979545
 Ion Ratio Lower Upper
 43 100
 72 20.9 16.1 24.1





#35

Carbon Tetrachloride

Concen: 9.205 ppbv

RT: 7.00 min Scan# 1309

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

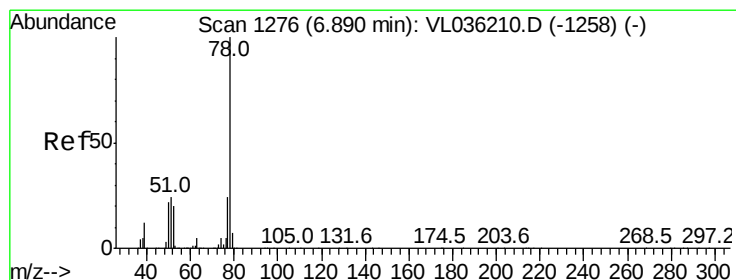
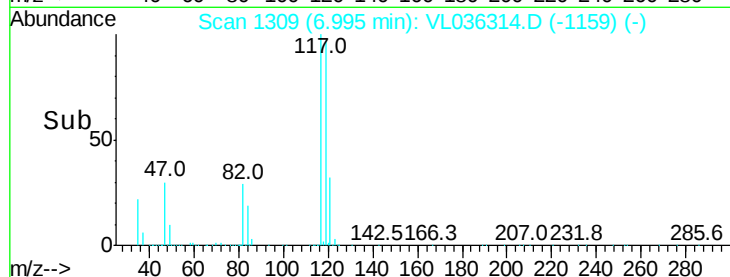
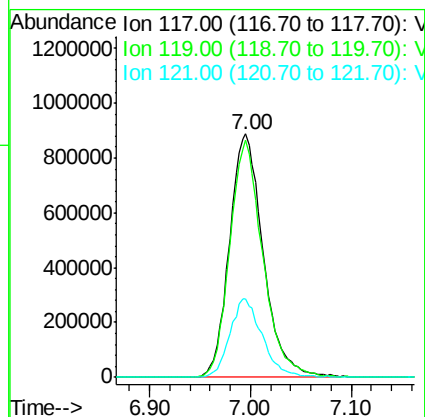
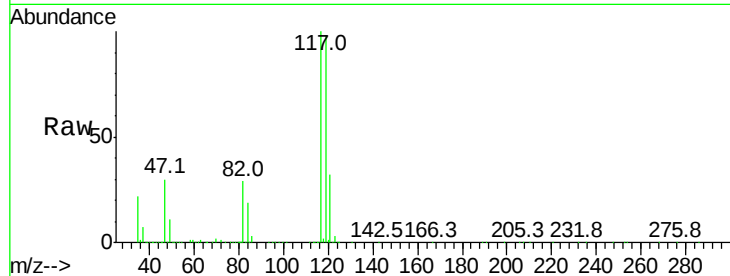
Tgt Ion:117 Resp: 2072195

Ion Ratio Lower Upper

117 100

119 97.6 74.9 112.3

121 32.3 25.0 37.6



#36

Benzene

Concen: 8.211 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

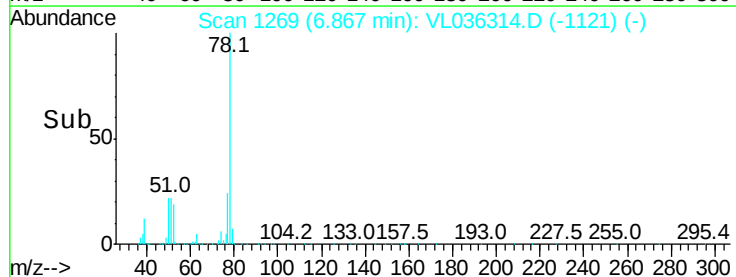
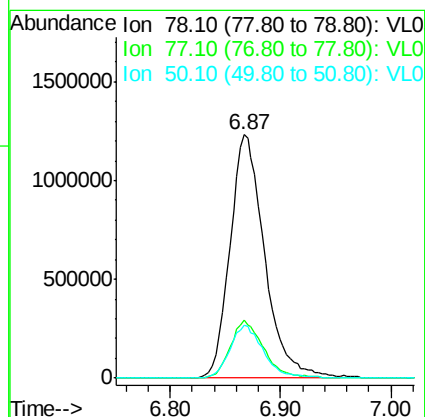
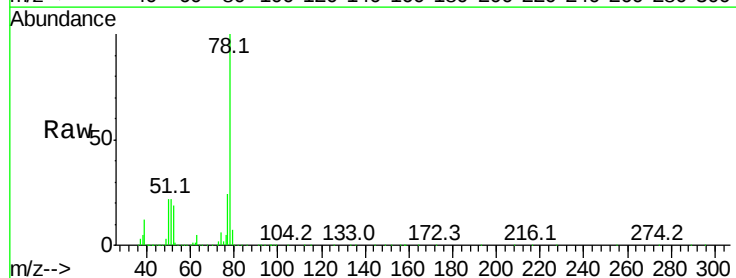
Tgt Ion: 78 Resp: 2680686

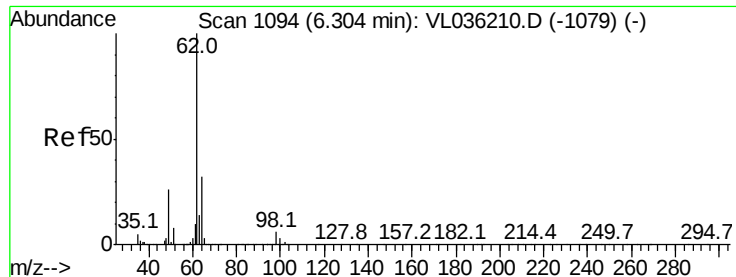
Ion Ratio Lower Upper

78 100

77 23.6 19.4 29.0

50 21.6 17.4 26.2

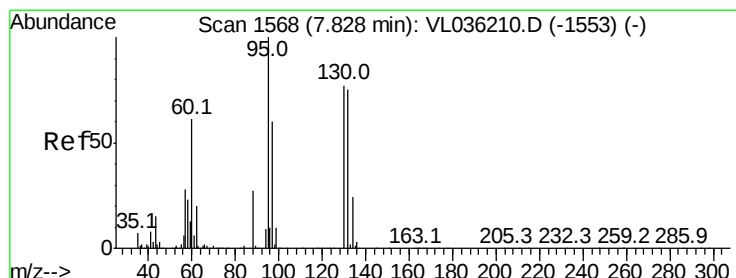
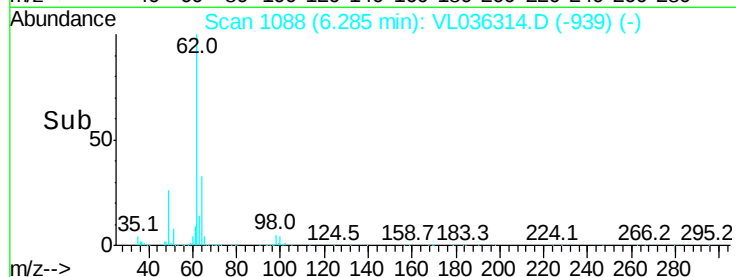
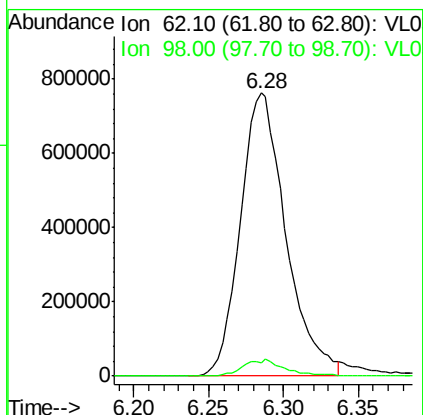
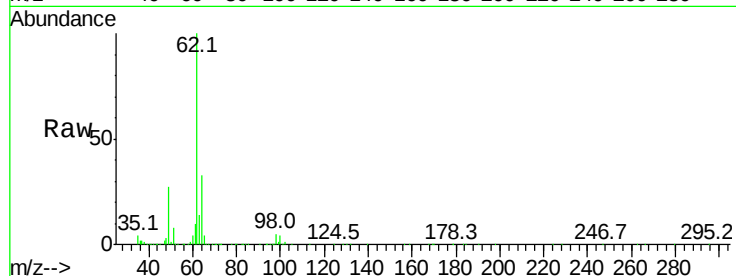




#37
 1,2-Dichloroethane
 Concen: 8.224 ppbv
 RT: 6.28 min Scan# 1088
 Delta R.T. -0.02 min
 Lab File: VL036314.D
 Acq: 10 Feb 2021 11:19

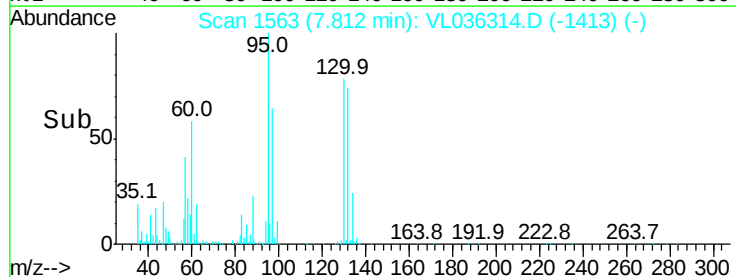
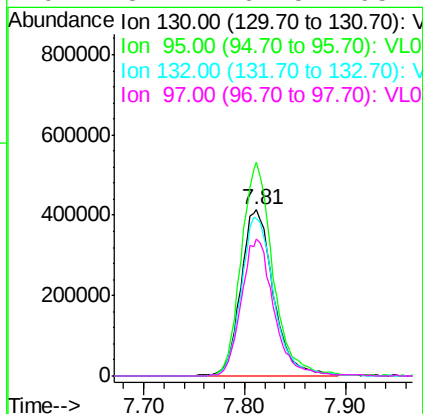
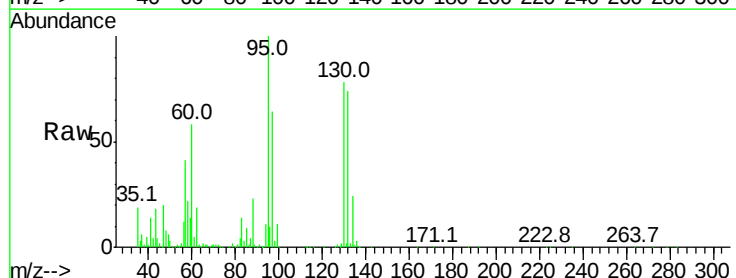
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

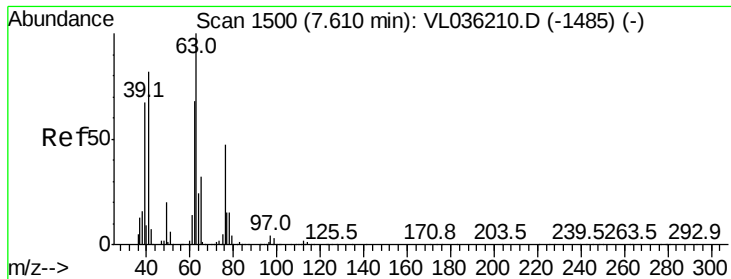
Tgt Ion: 62 Resp: 1615698
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.4 6.6



#38
 Trichloroethene
 Concen: 7.644 ppbv
 RT: 7.81 min Scan# 1563
 Delta R.T. -0.02 min
 Lab File: VL036314.D
 Acq: 10 Feb 2021 11:19

Tgt Ion: 130 Resp: 924334
 Ion Ratio Lower Upper
 130 100
 95 128.5 103.9 155.9
 132 94.6 77.4 116.2
 97 82.7 62.5 93.7





#39

1,2-Dichloropropane

Concen: 8.195 ppbv

RT: 7.59 min Scan# 1493

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

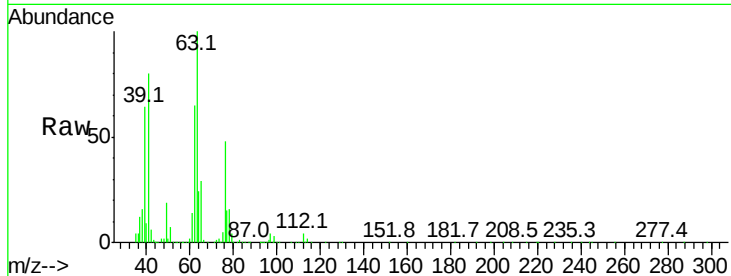
Tgt Ion: 63 Resp: 1086231

Ion Ratio Lower Upper

63 100

41 79.7 66.1 99.1

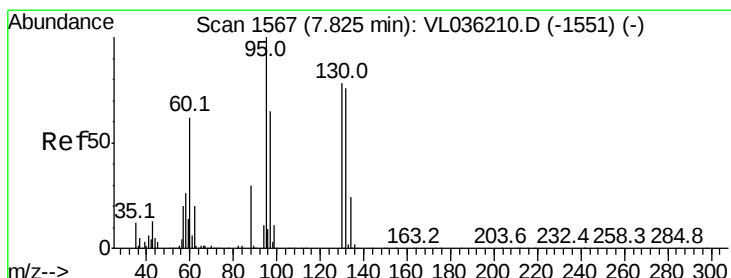
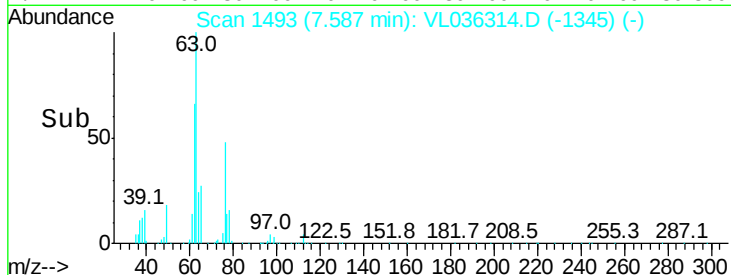
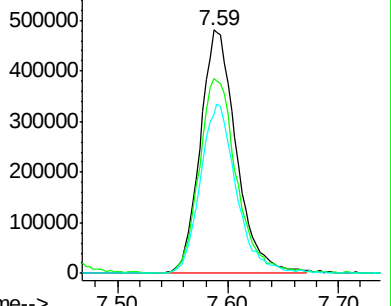
62 65.4 54.8 82.2



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: 7.506 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Tgt Ion: 88 Resp: 359922

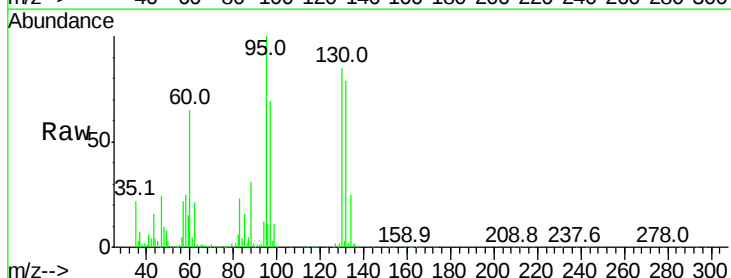
Ion Ratio Lower Upper

88 100

58 56.2 123.0 184.6#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

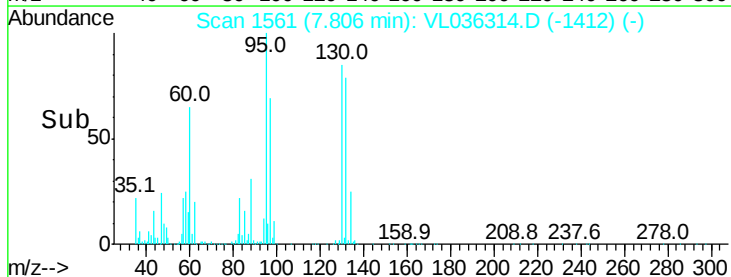
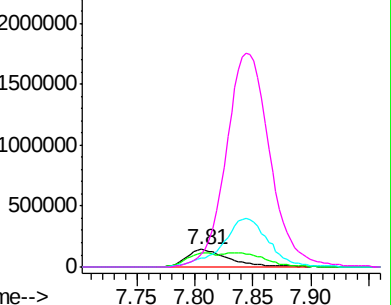


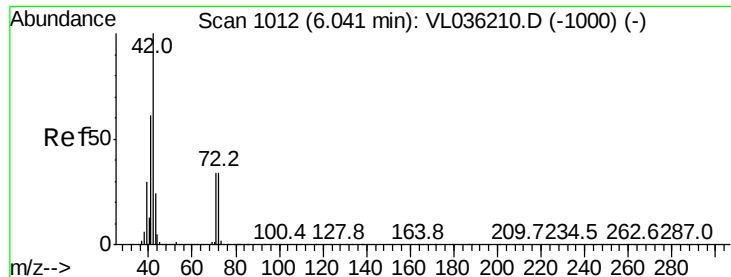
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 7.772 ppbv

RT: 6.02 min Scan# 1007

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

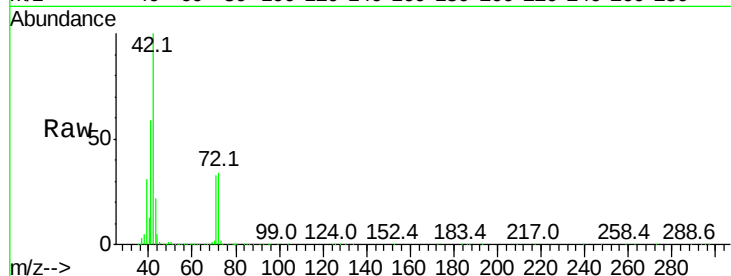
Tgt Ion: 42 Resp: 1178554

Ion Ratio Lower Upper

42 100

72 36.6 29.5 44.3

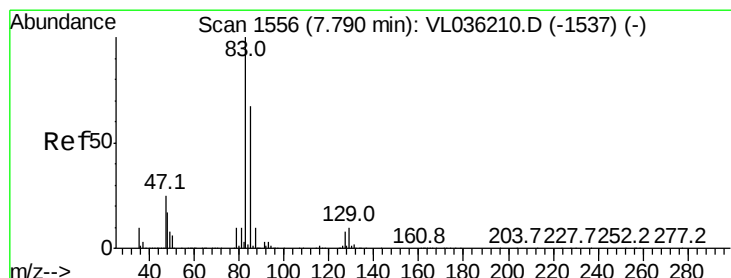
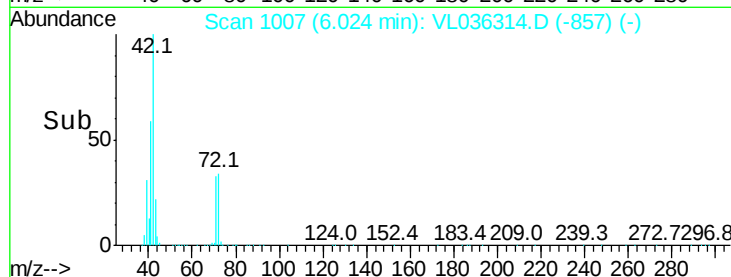
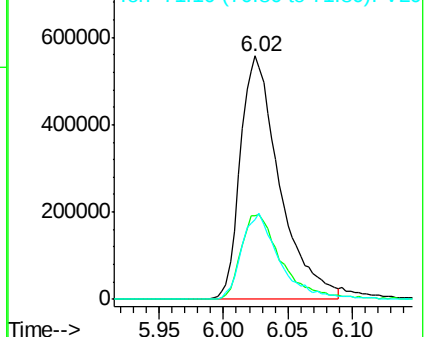
71 34.8 29.1 43.7



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.057 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

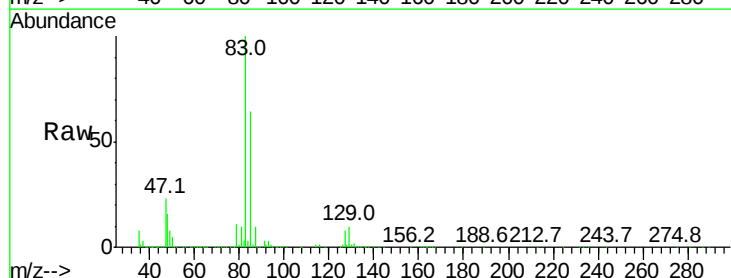
Tgt Ion: 83 Resp: 2236410

Ion Ratio Lower Upper

83 100

85 63.9 53.4 80.2

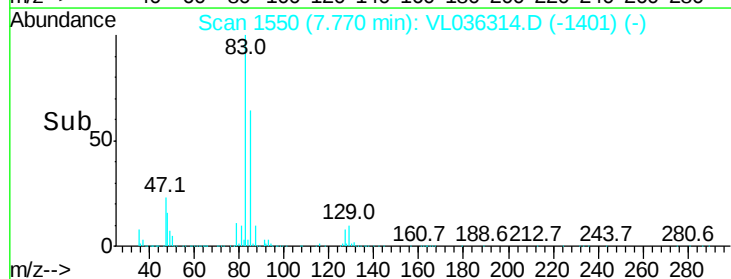
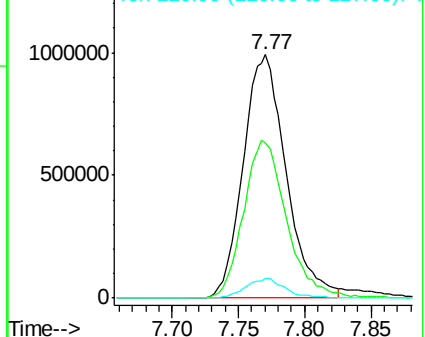
127 7.9 6.2 9.2

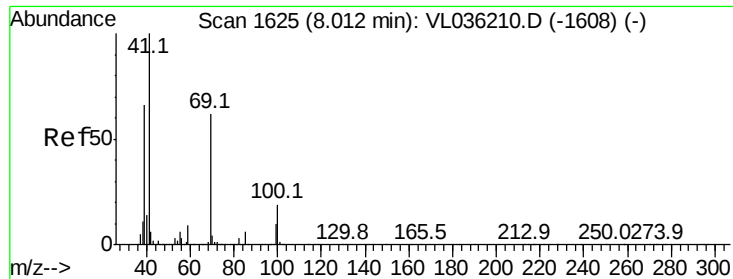


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 8.691 ppbv

RT: 7.99 min Scan# 1618

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

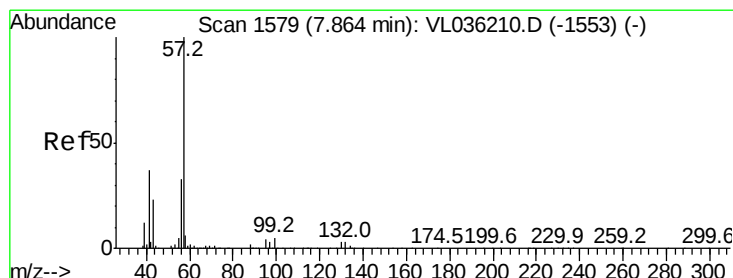
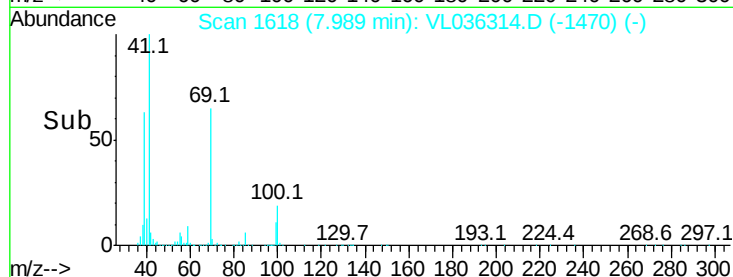
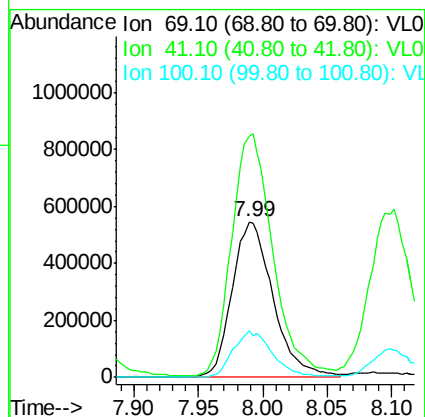
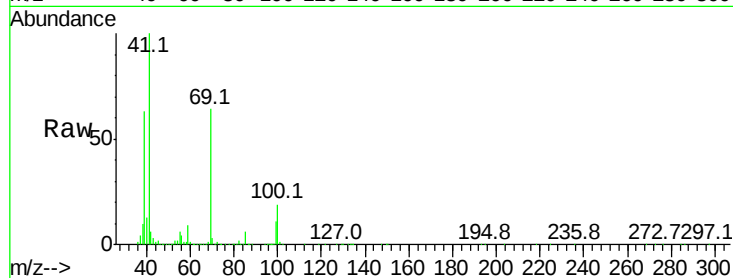
Tgt Ion: 69 Resp: 1205732

Ion Ratio Lower Upper

69 100

41 158.1 133.4 200.2

100 28.9 24.3 36.5



#44

2,2,4-Trimethylpentane

Concen: 7.713 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

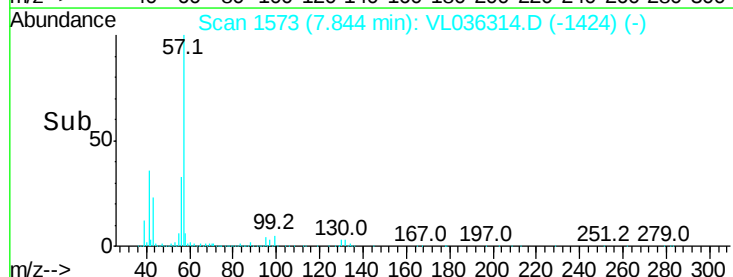
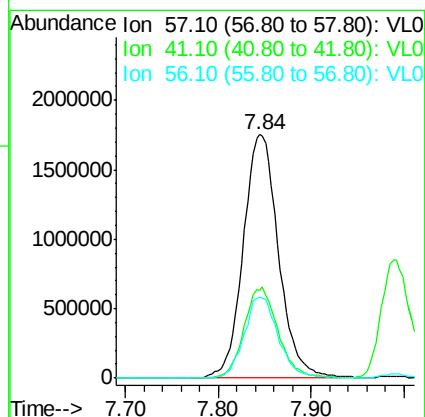
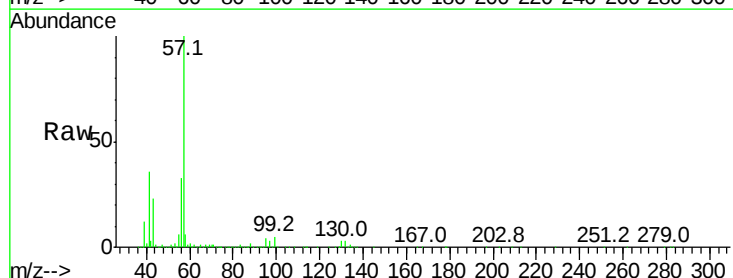
Tgt Ion: 57 Resp: 4625295

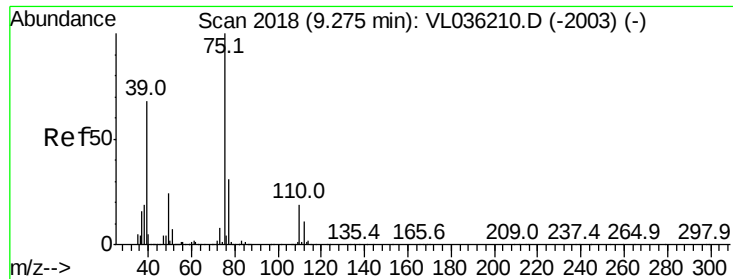
Ion Ratio Lower Upper

57 100

41 36.0 28.5 42.7

56 32.2 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 9.870 ppbv

RT: 9.26 min Scan# 2012

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

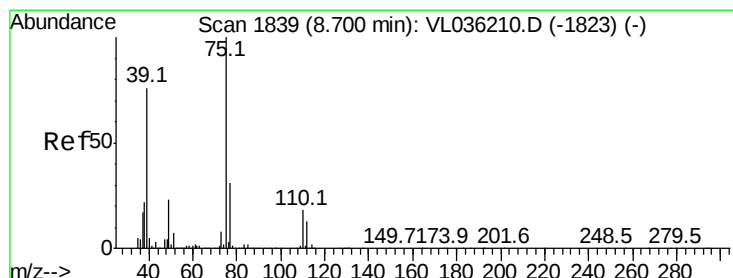
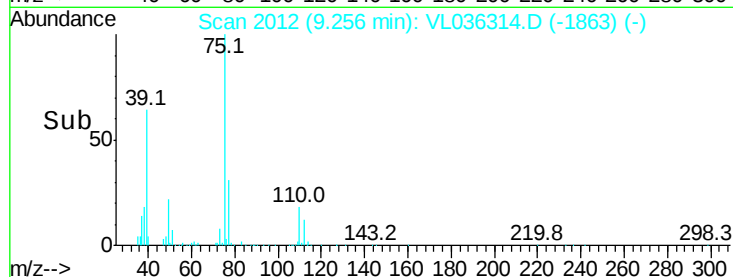
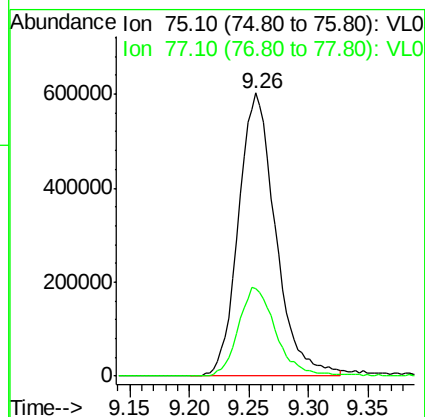
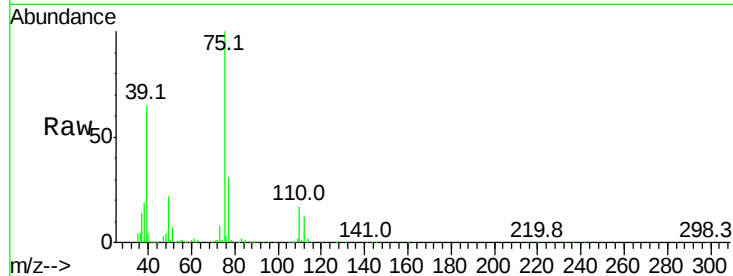
VSTDICCC010

Tgt Ion: 75 Resp: 1300649

Ion Ratio Lower Upper

75 100

77 30.8 24.7 37.1



#46

cis-1,3-Dichloropropene

Concen: 9.266 ppbv

RT: 8.68 min Scan# 1832

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

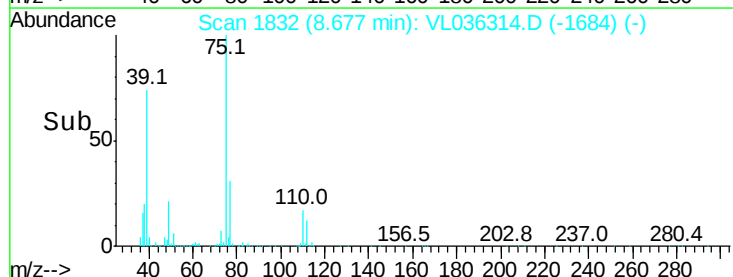
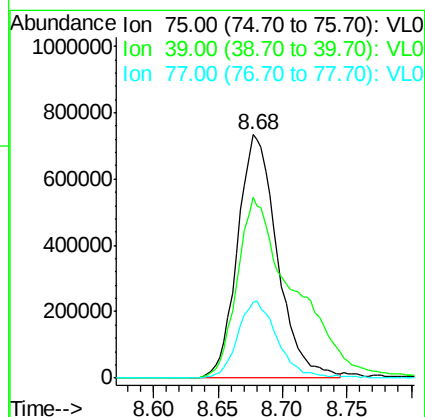
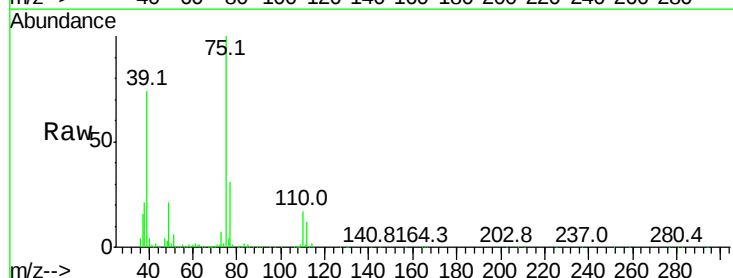
Tgt Ion: 75 Resp: 1569042

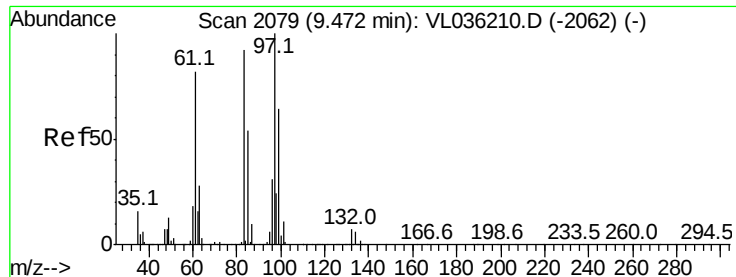
Ion Ratio Lower Upper

75 100

39 74.0 61.2 91.8

77 31.3 24.6 37.0





#47

1,1,2-Trichloroethane

Concen: 8.414 ppbv

RT: 9.45 min Scan# 2073

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 1066925

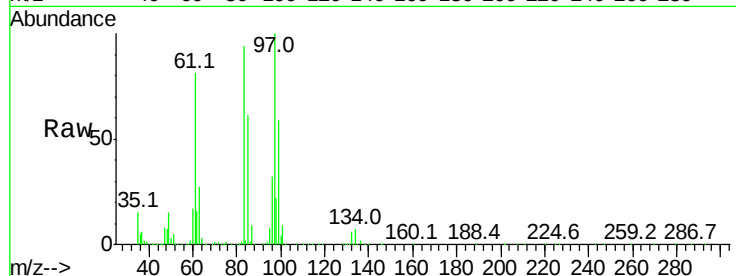
Ion Ratio Lower Upper

97 100

83 94.2 73.3 109.9

85 61.1 43.2 64.8

99 58.6 51.5 77.3

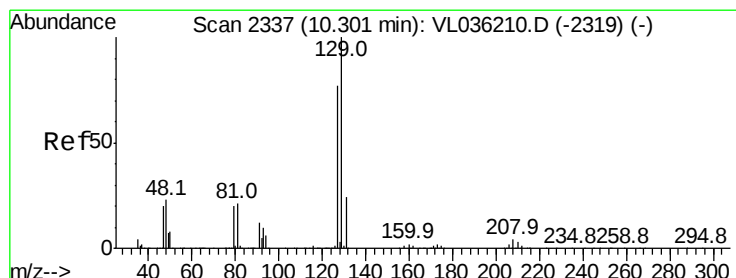
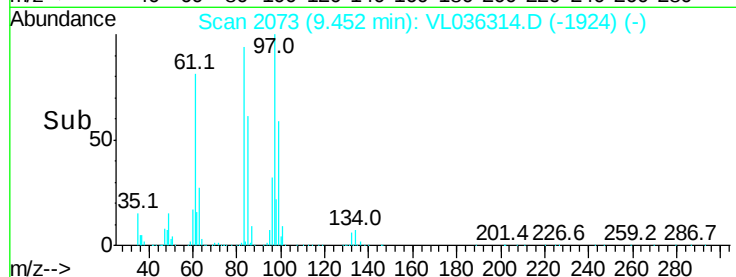
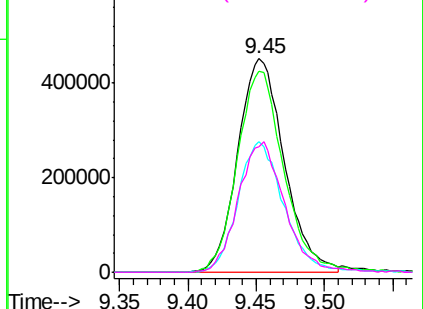


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.608 ppbv

RT: 10.28 min Scan# 2331

Delta R.T. -0.02 min

Lab File: VL036314.D

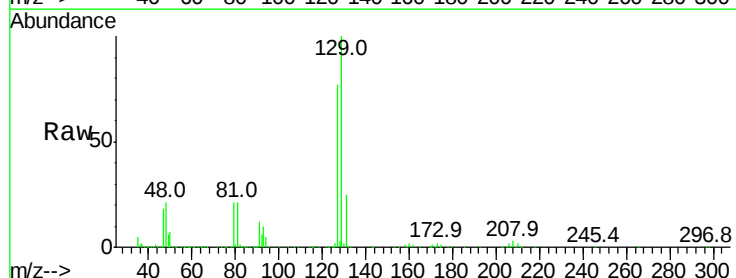
Acq: 10 Feb 2021 11:19

Tgt Ion: 129 Resp: 1782459

Ion Ratio Lower Upper

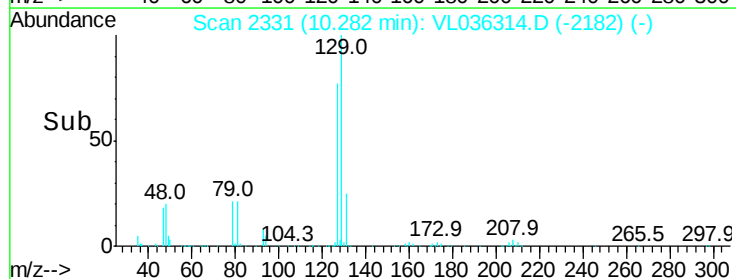
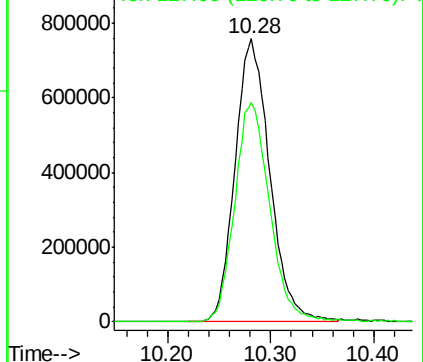
129 100

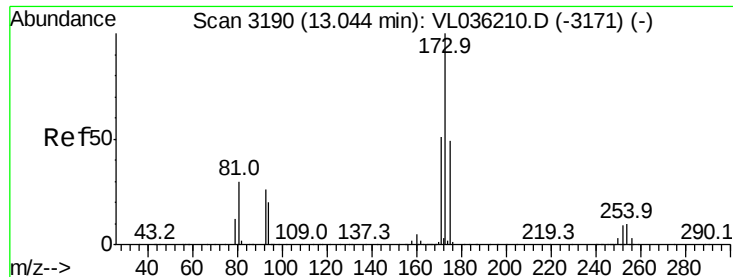
127 78.1 39.6 118.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.466 ppbv

RT: 13.02 min Scan# 3183

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

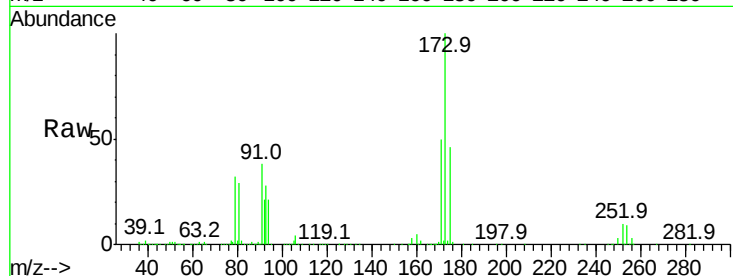
Tgt Ion:173 Resp: 1465918

Ion Ratio Lower Upper

173 100

175 50.2 40.7 61.1

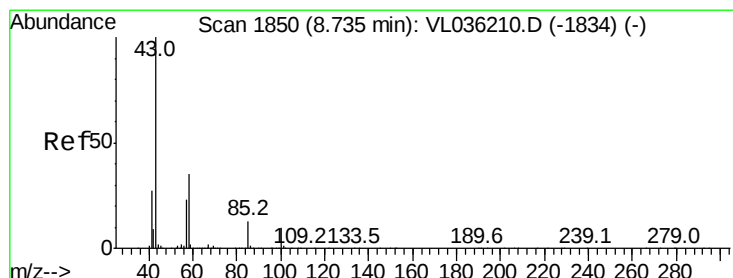
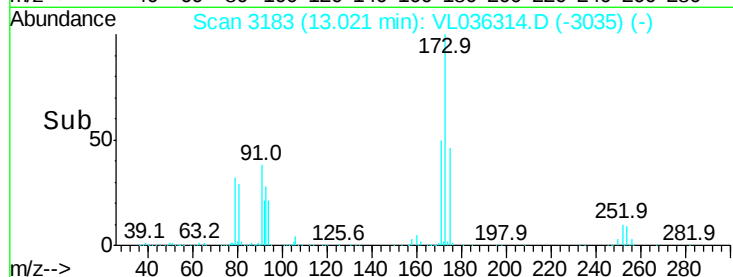
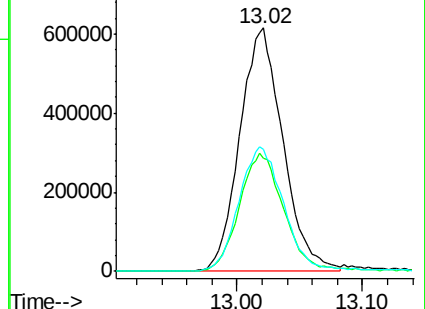
171 54.3 43.0 64.6



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: 8.039 ppbv

RT: 8.72 min Scan# 1844

Delta R.T. -0.02 min

Lab File: VL036314.D

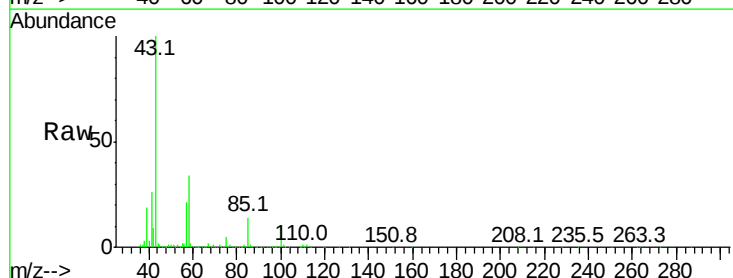
Acq: 10 Feb 2021 11:19

Tgt Ion: 43 Resp: 3145085

Ion Ratio Lower Upper

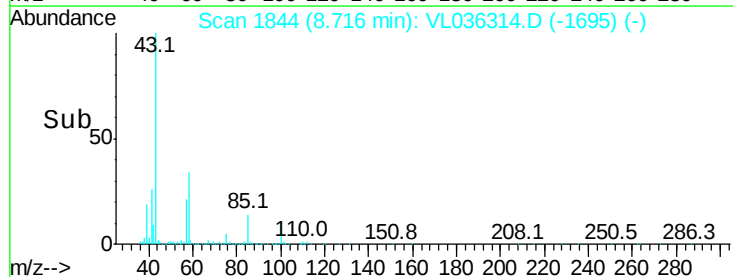
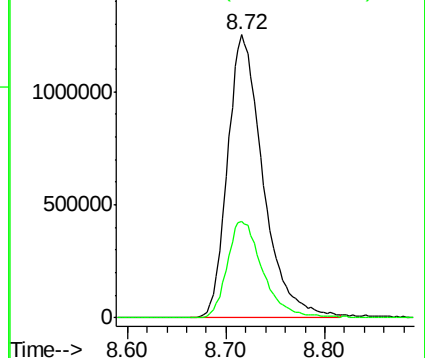
43 100

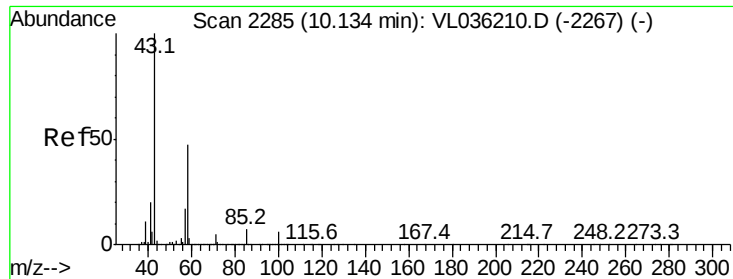
58 34.7 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

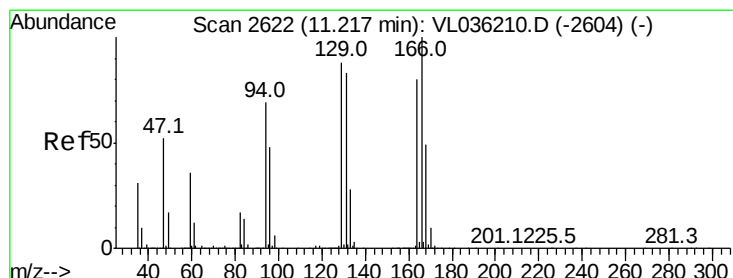
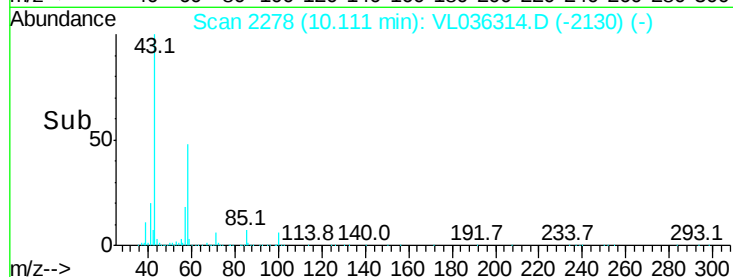
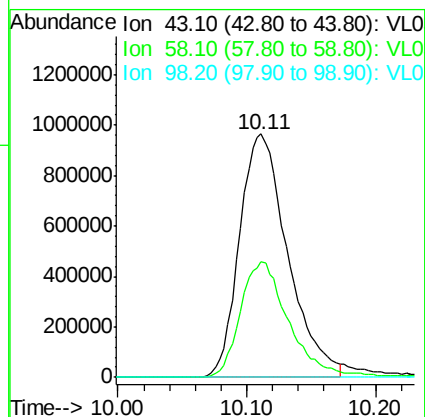
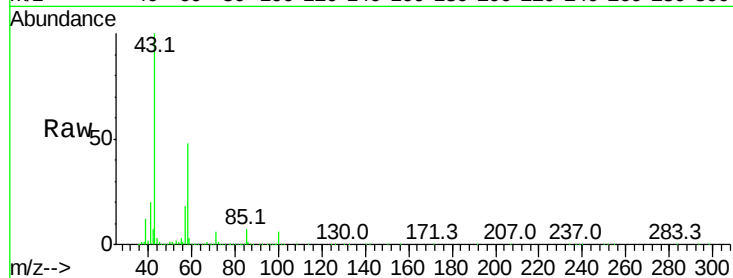




#51
2-Hexanone
Concen: 8.125 ppbv
RT: 10.11 min Scan# 2278
Delta R.T. -0.02 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

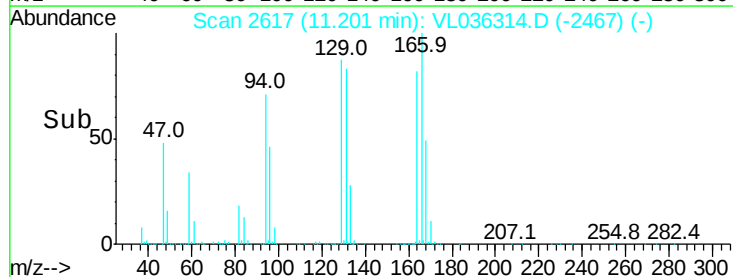
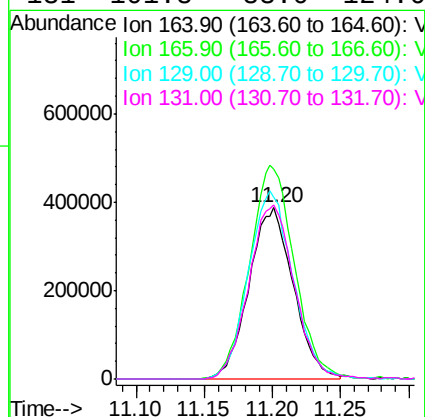
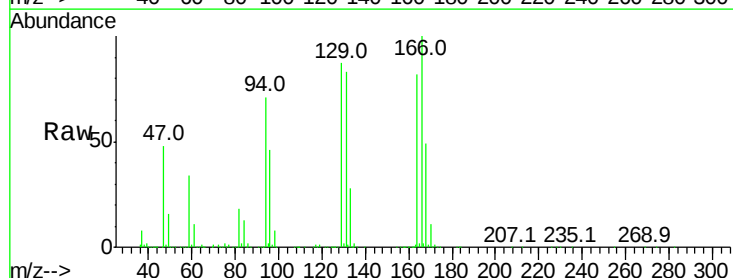
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

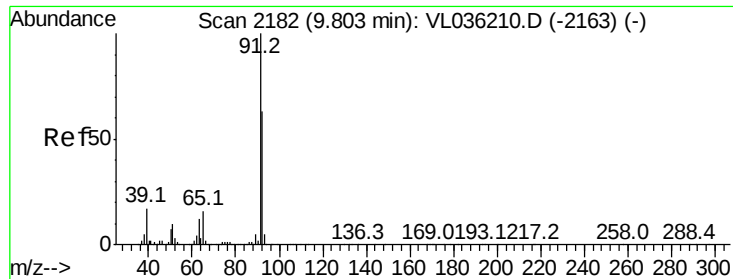
Tgt Ion: 43 Resp: 2507713
Ion Ratio Lower Upper
43 100
58 48.4 37.4 56.0
98 0.5 0.2 0.2#



#52
Tetrachloroethene
Concen: 7.238 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. -0.02 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

Tgt Ion: 164 Resp: 870740
Ion Ratio Lower Upper
164 100
166 122.3 99.9 149.9
129 106.1 88.2 132.4
131 101.8 83.0 124.6





#53

Toluene

Concen: 8.221 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

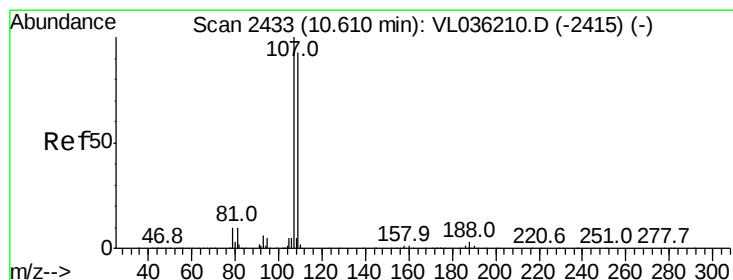
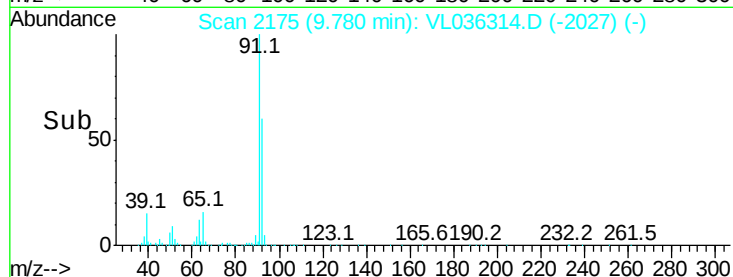
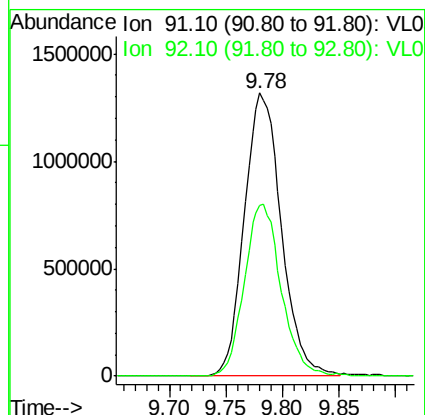
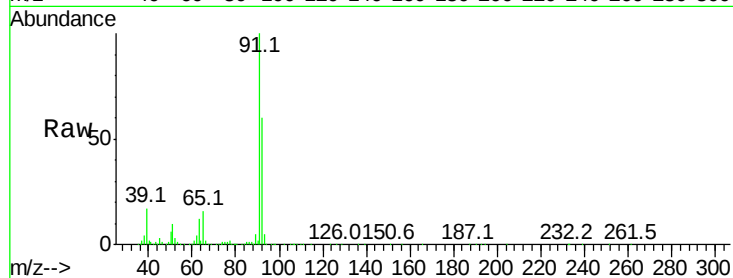
VSTDICCC010

Tgt Ion: 91 Resp: 3002219

Ion Ratio Lower Upper

91 100

92 60.7 48.5 72.7



#54

1,2-Dibromoethane

Concen: 8.507 ppbv

RT: 10.59 min Scan# 2426

Delta R.T. -0.02 min

Lab File: VL036314.D

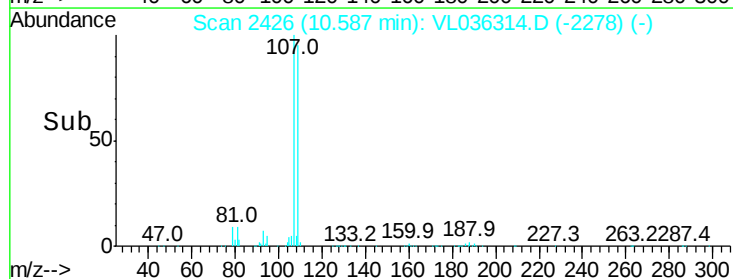
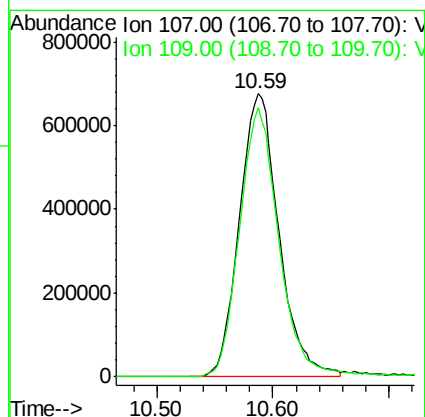
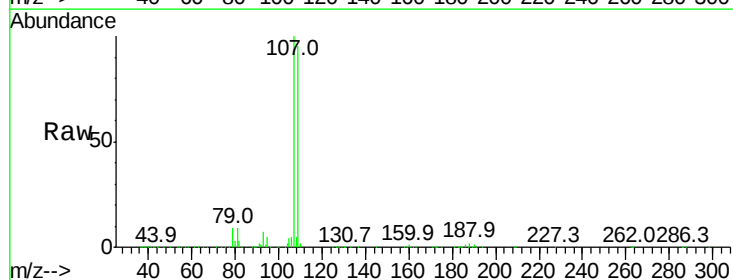
Acq: 10 Feb 2021 11:19

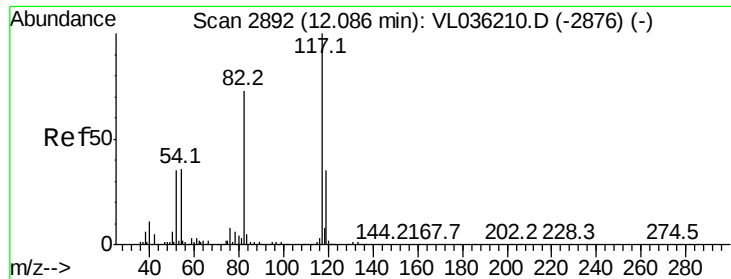
Tgt Ion: 107 Resp: 1599084

Ion Ratio Lower Upper

107 100

109 95.0 74.5 111.7

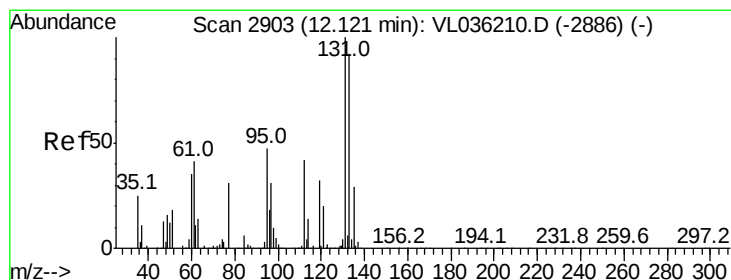
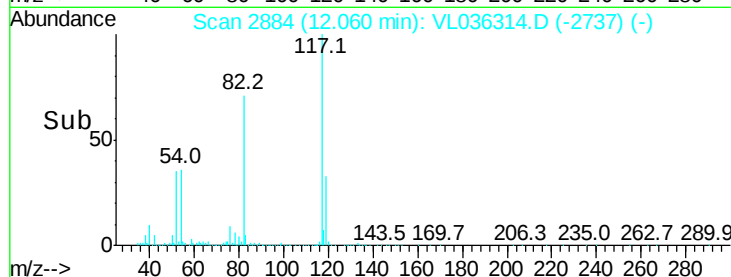
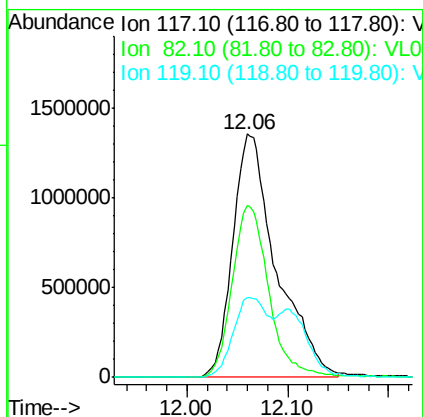
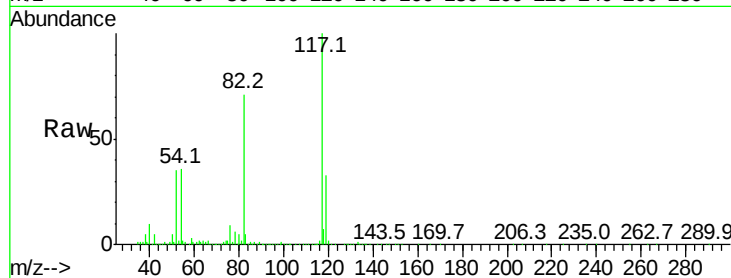




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.03 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

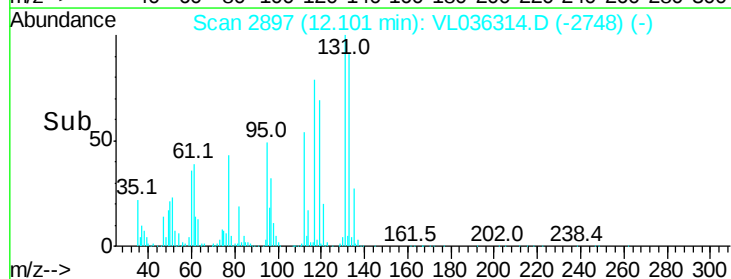
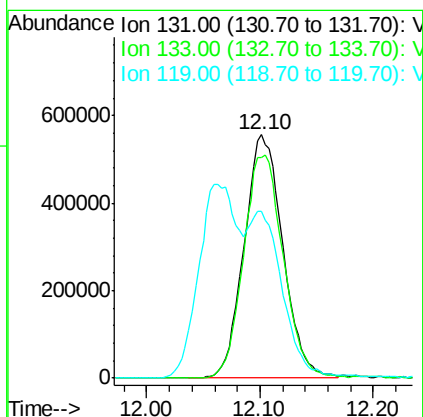
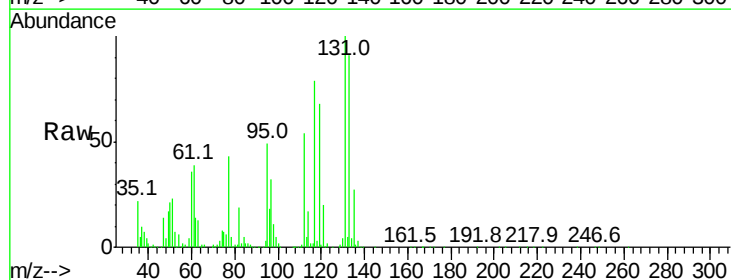
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

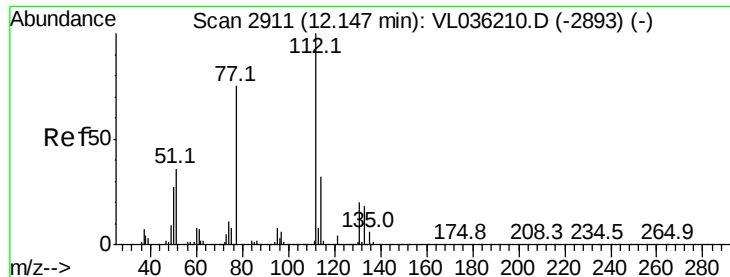
Tgt Ion:117 Resp: 4073876
Ion Ratio Lower Upper
117 100
82 59.6 59.7 89.5#
119 46.7 28.6 43.0#



#56
1,1,1,2-Tetrachloroethane
Concen: 7.275 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.02 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

Tgt Ion:131 Resp: 1322688
Ion Ratio Lower Upper
131 100
133 95.0 76.5 114.7
119 143.9 45.4 68.0#





#57

Chlorobenzene

Concen: 6.689 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. -0.02 min

Lab File: VL036314.D

Acq: 10 Feb 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

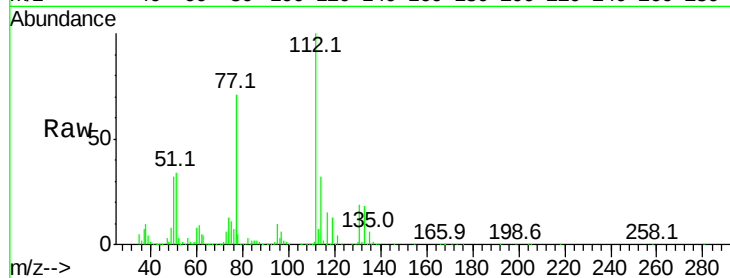
Tgt Ion: 112 Resp: 2138147

Ion Ratio Lower Upper

112 100

77 70.1 59.6 89.4

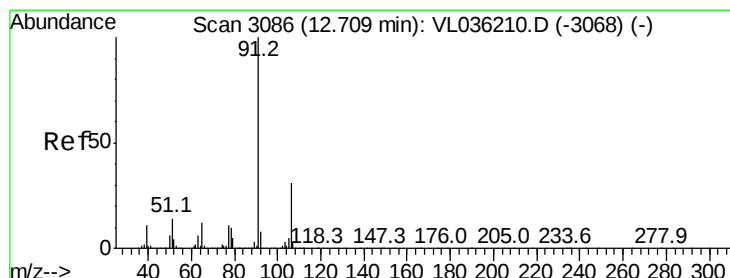
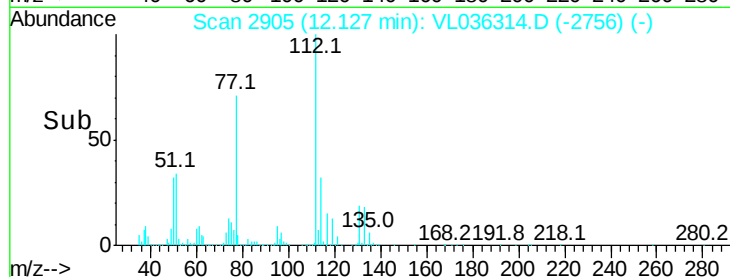
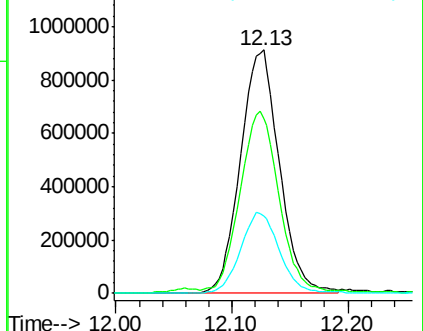
114 31.4 28.7 35.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 6.799 ppbv

RT: 12.69 min Scan# 3079

Delta R.T. -0.02 min

Lab File: VL036314.D

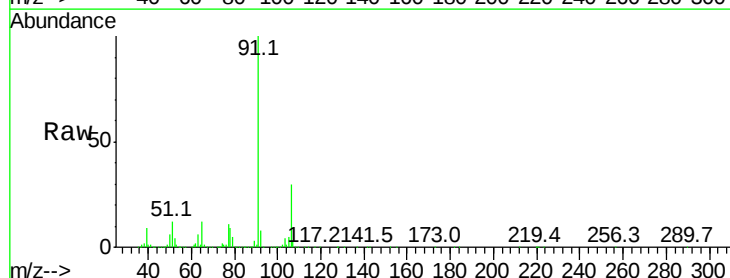
Acq: 10 Feb 2021 11:19

Tgt Ion: 91 Resp: 4110158

Ion Ratio Lower Upper

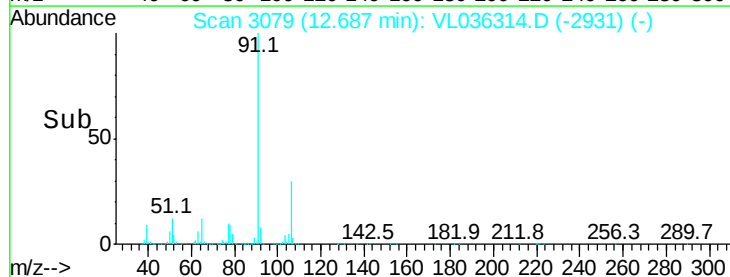
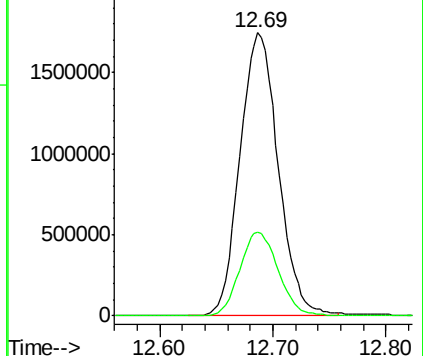
91 100

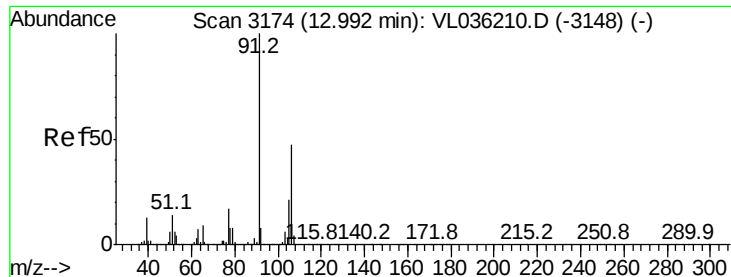
106 29.7 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

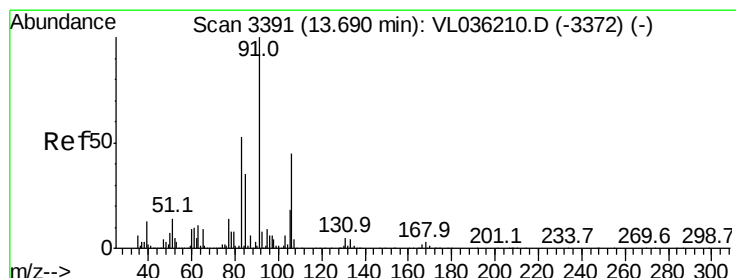
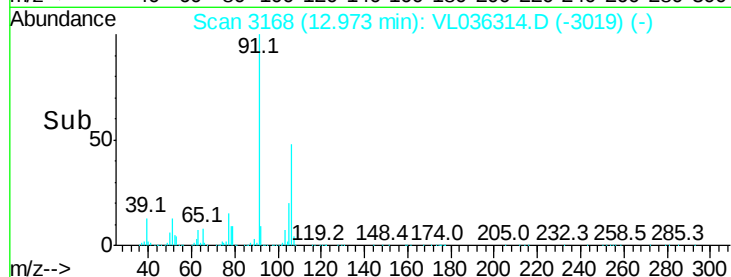
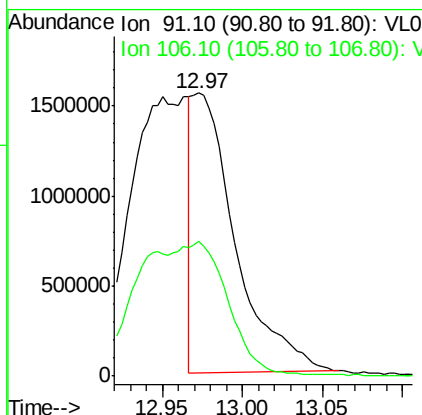
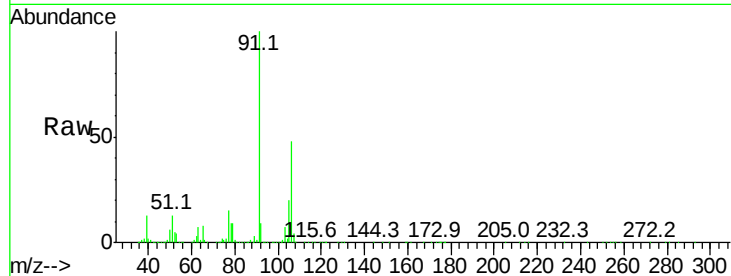




#59
m/p-Xylene
Concen: 5.608 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.02 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 2913357
Ion Ratio Lower Upper
91 100
106 102.0 34.6 51.8#



#60
o-Xylene
Concen: 6.470 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.02 min
Lab File: VL036314.D
Acq: 10 Feb 2021 11:19

Tgt Ion: 91 Resp: 3239543
Ion Ratio Lower Upper
91 100
106 44.0 21.9 65.8

