

Data File : VL034937.D
Acq On : 6 May 2020 10:48
Operator : SY/AP
Sample : VSTDIC002
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Quant Time: May 06 12:41:14 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 12:36:21 2020
QLast Update : Wed May 06 12:36:21 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1222148	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2810612	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2718729	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2147129	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.01	85	331121	1.979	ppbv	97
3) Chlorodifluoromethane	2.95	51	302915	2.219	ppbv	100
4) Chloromethane	3.10	50	173931	2.254	ppbv	96
5) Vinyl Chloride	3.22	62	168080	2.266	ppbv	100
6) Bromomethane	3.45	94	101167	2.343	ppbv	98
7) Chloroethane	3.53	64	60170	2.246	ppbv	94
8) Dichlorotetrafluoroethane	3.15	85	391360	2.252	ppbv	99
9) Propene	2.97	41	131043	2.010	ppbv	98
10) Heptane	8.14	43	334814	2.087	ppbv	100
11) Trichlorofluoromethane	3.92	101	391226	2.197	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.47	101	281221	2.257	ppbv	100
13) Ethanol	3.58	45	45359	2.289	ppbv	86
14) Bromoethene	3.71	108	112314	2.087	ppbv	95
15) Acetone	3.83	43	366184	2.312	ppbv	99
16) 1,3-Butadiene	3.29	39	156214	2.181	ppbv	96
17) tert-Butyl alcohol	4.27	59	313459	2.054	ppbv	99
18) 1,1-Dichloroethene	4.27	96	120563	2.185	ppbv	90
19) Isopropyl Alcohol	3.94	45	238811	2.387	ppbv #	98
20) Methylene Chloride	4.32	84	115208	2.300	ppbv #	86
21) Allyl Chloride	4.39	41	202529	1.991	ppbv	96
22) trans-1,2-Dichloroethene	4.87	96	127170	2.271	ppbv	90
23) Vinyl Acetate	5.06	43	483795	2.068	ppbv	97
24) 1,1-Dichloroethane	5.00	63	340077	2.168	ppbv	99
25) Ethyl Acetate	5.67	43	597735	2.118	ppbv	99
26) Hexane	5.68	57	256679	2.112	ppbv	96
27) Carbon Disulfide	4.53	76	303517	2.201	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	398025	1.969	ppbv	100
29) Chloroform	5.75	83	418453	2.257	ppbv	95
30) Cyclohexane	7.13	84	200614	1.979	ppbv #	83
31) cis-1,2-Dichloroethene	5.54	61	251476	2.024	ppbv	97
32) 1,1,1-Trichloroethane	6.52	97	378954	2.098	ppbv	99
34) 2-Butanone	5.23	43	391435	2.096	ppbv	98
35) Carbon Tetrachloride	7.03	117	392173	2.243	ppbv	92
36) Benzene	6.90	78	526286	2.101	ppbv	98
37) 1,2-Dichloroethane	6.31	62	307795	2.179	ppbv	100
38) Trichloroethene	7.85	130	194097	2.040	ppbv	94
39) 1,2-Dichloropropane	7.62	63	200394	2.019	ppbv	98
40) 1,4-Dioxane	7.86	88	65863	1.757	ppbv #	1
41) Tetrahydrofuran	6.05	42	207244	2.051	ppbv	98
42) Bromodichloromethane	7.81	83	419882	2.181	ppbv	96
43) Methyl Methacrylate	8.03	69	214897	2.036	ppbv	99

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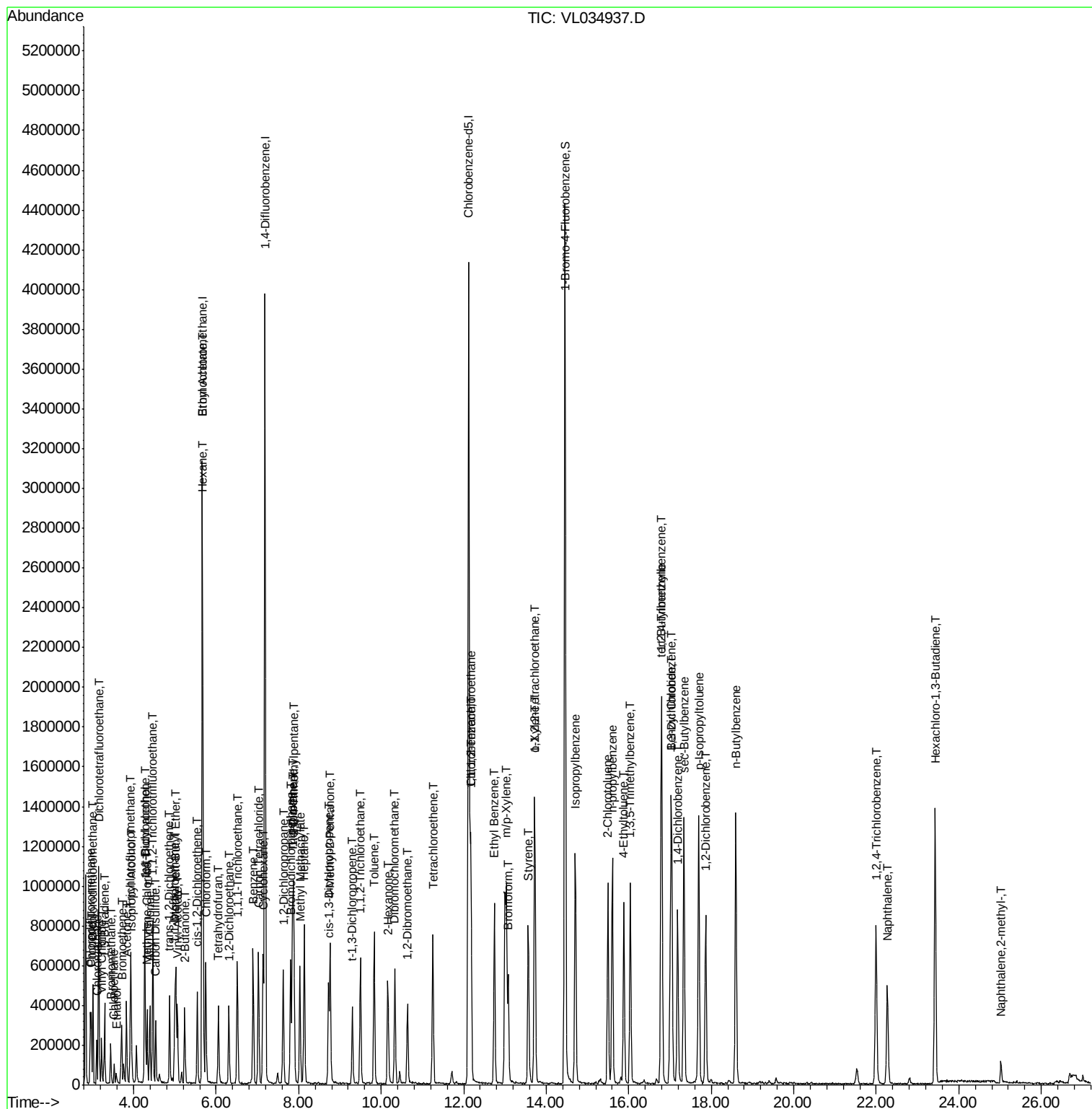
Quant Time: May 06 12:41:14 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 12:36:21 2020
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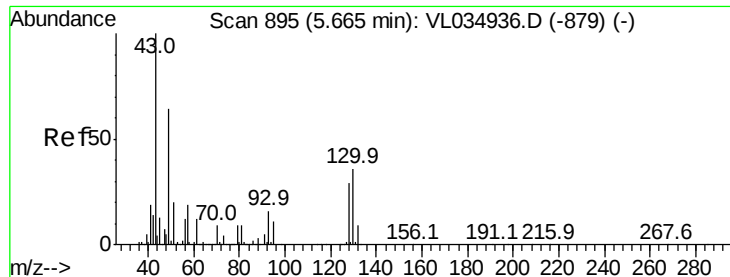
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	934260	2.207	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	213798	1.724	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	269297	1.828	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	214674	2.107	ppbv	92
48) Dibromochloromethane	10.33	129	334359	2.027	ppbv	99
49) Bromoform	13.08	173	287639	1.956	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	558687	2.078	ppbv	98
51) 2-Hexanone	10.16	43	431172	1.973	ppbv #	100
52) Tetrachloroethene	11.25	164	182697	1.843	ppbv	95
53) Toluene	9.83	91	566277	1.957	ppbv	99
54) 1,2-Dibromoethane	10.64	107	207133	1.351	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	267507	2.190	ppbv #	1
57) Chlorobenzene	12.18	112	470623	2.212	ppbv #	96
58) Ethyl Benzene	12.75	91	776540	2.109	ppbv	98
59) m/p-Xylene	13.03	91	510413	1.655	ppbv #	61
60) o-Xylene	13.73	91	679504	2.256	ppbv	97
61) Styrene	13.56	104	434286	2.055	ppbv	99
62) Isopropylbenzene	14.70	105	977723	2.147	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.72	83	491927	2.406	ppbv	99
64) n-propylbenzene	15.61	120	138489	1.168	ppbv #	1
65) tert-Butylbenzene	16.78	119	903840	2.270	ppbv	99
66) Benzyl Chloride	17.03	91	158454	0.955	ppbv #	74
67) sec-Butylbenzene	17.34	105	1278952	2.317	ppbv	97
69) p-Isopropyltoluene	17.69	119	1045084	2.258	ppbv	99
70) n-Butylbenzene	18.60	91	1118091	2.368	ppbv	97
71) 2-Chlorotoluene	15.50	91	758782	2.200	ppbv	99
72) 4-Ethyltoluene	15.88	105	761698	2.142	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	742681	2.231	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	815438	2.377	ppbv	94
75) 1,3-Dichlorobenzene	17.04	146	455259	2.201	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	431333	2.090	ppbv	99
77) 1,2-Dichlorobenzene	17.87	146	432241	2.156	ppbv	98
78) Hexachloro-1,3-Butadiene	23.43	225	200652	1.198	ppbv #	25
79) Naphthalene	22.27	128	596414	2.230	ppbv	98
80) Naphthalene,2-methyl-	25.03	142	56363	0.806	ppbv	96
81) 1,2,4-Trichlorobenzene	22.00	180	352460	2.074	ppbv	96

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

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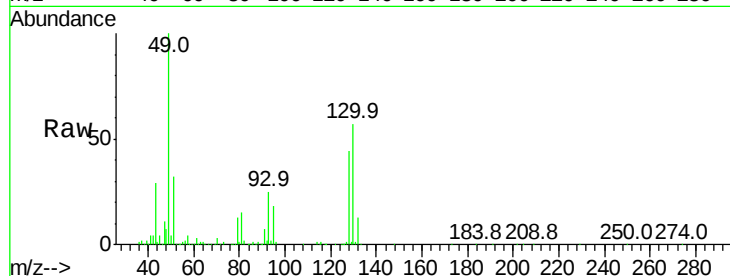
Tgt Ion: 49 Resp: 1222148

Ion Ratio Lower Upper

49 100

128 45.7 22.1 66.5

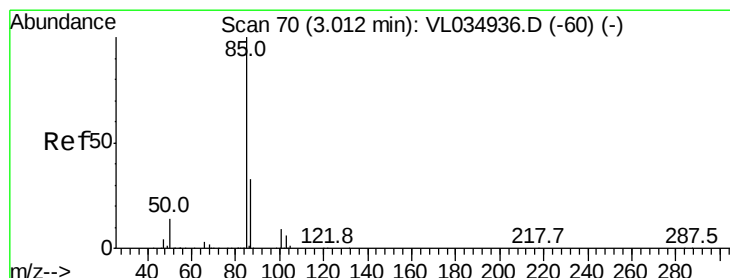
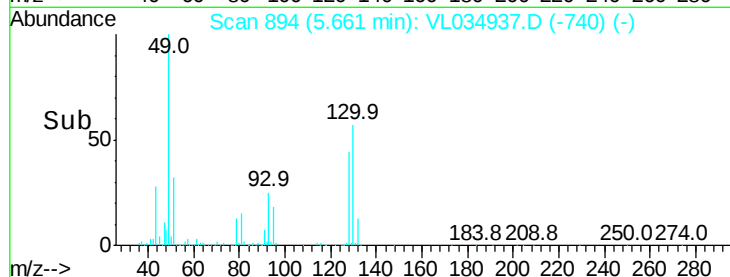
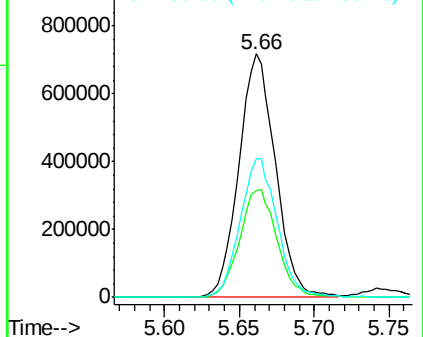
130 57.7 29.1 87.3



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: 1.979 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL034937.D

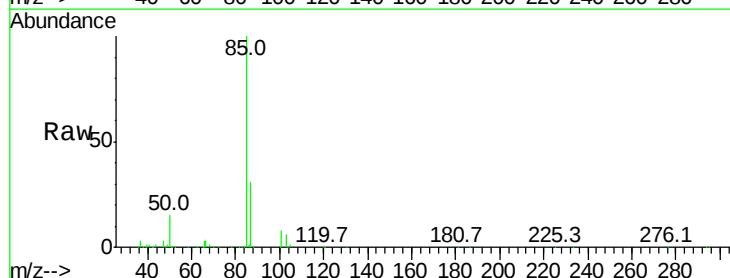
Acq: 6 May 2020 10:48

Tgt Ion: 85 Resp: 331121

Ion Ratio Lower Upper

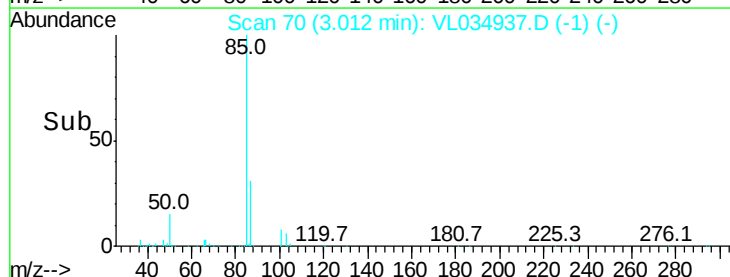
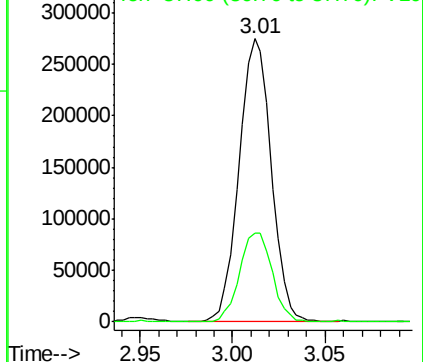
85 100

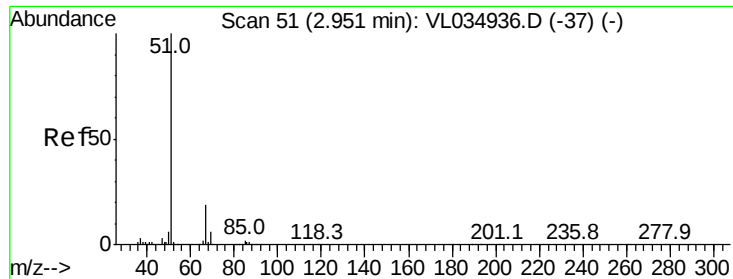
87 31.2 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.219 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

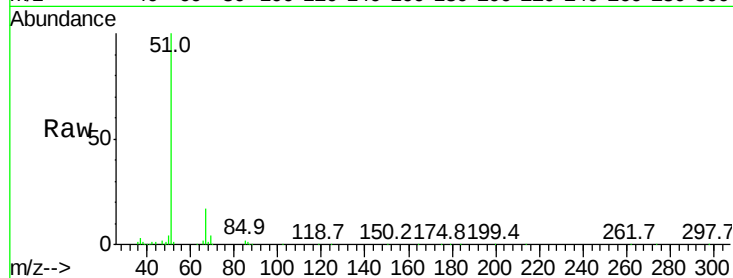
VSTDIC002

Tgt Ion: 51 Resp: 302915

Ion Ratio Lower Upper

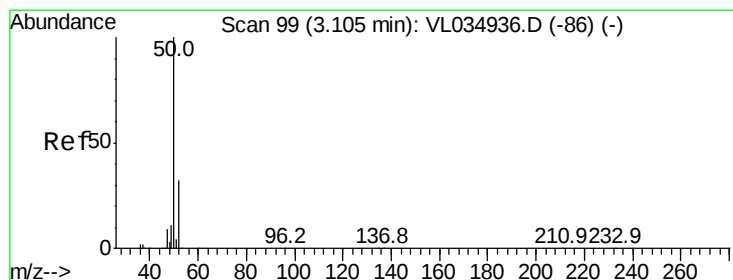
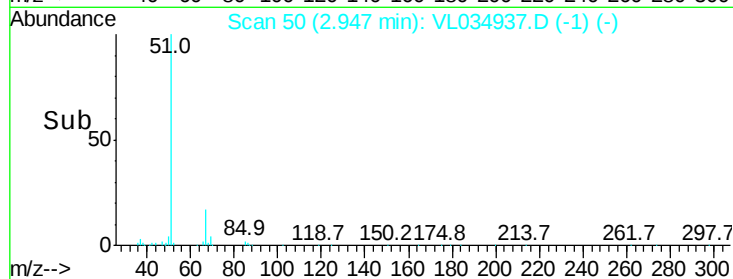
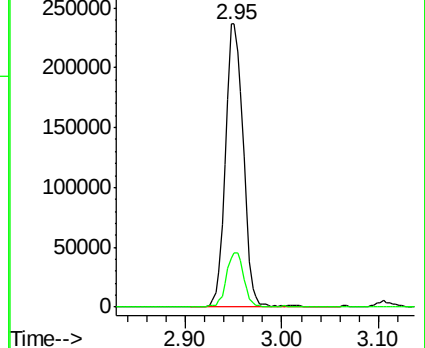
51 100

67 18.7 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 2.254 ppbv

RT: 3.10 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034937.D

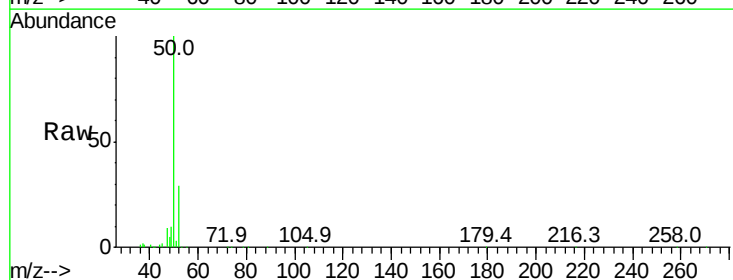
Acq: 6 May 2020 10:48

Tgt Ion: 50 Resp: 173931

Ion Ratio Lower Upper

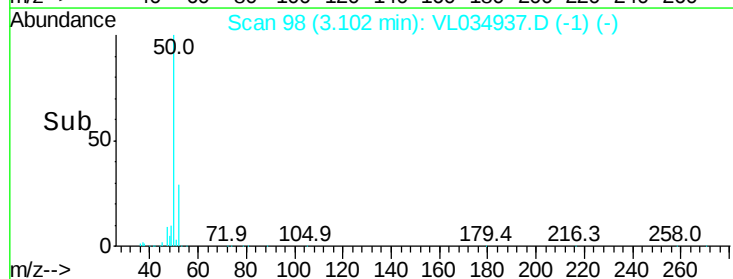
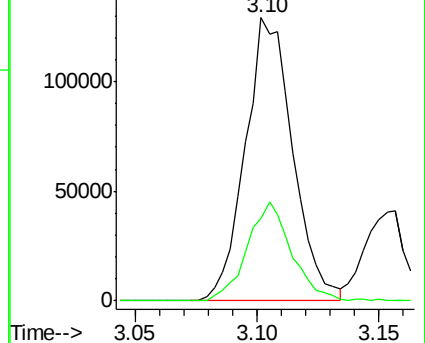
50 100

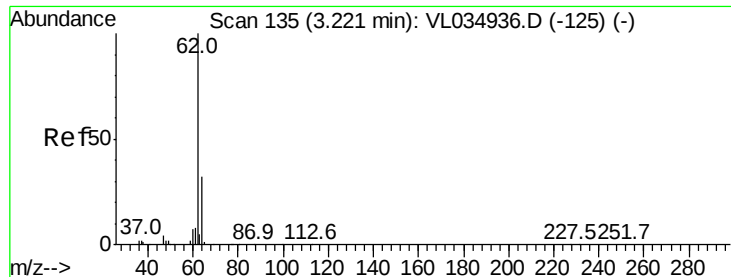
52 29.3 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 2.266 ppbv

RT: 3.22 min Scan# 136

Delta R.T. 0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

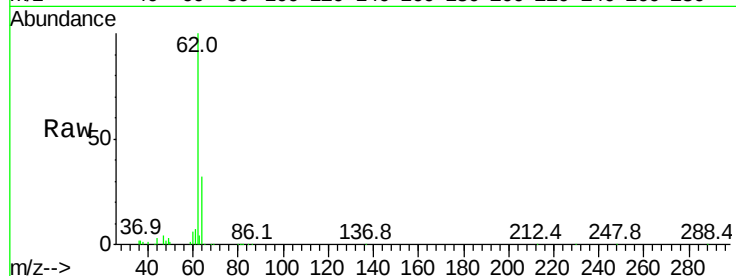
VSTDIC002

Tgt Ion: 62 Resp: 168080

Ion Ratio Lower Upper

62 100

64 32.3 25.7 38.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.22

150000

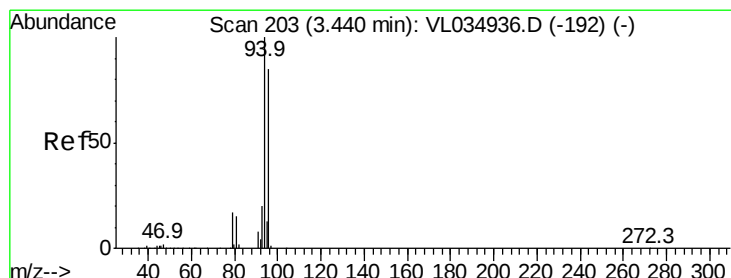
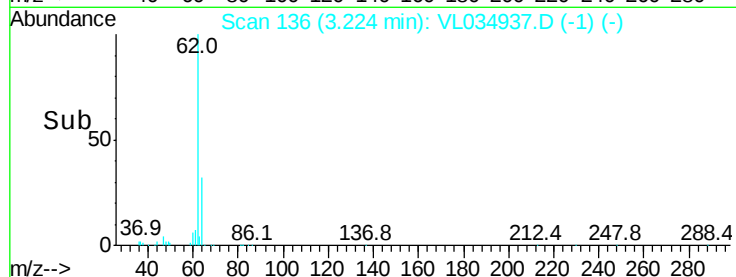
100000

50000

0

Time-->

3.20 3.25



#6

Bromomethane

Concen: 2.343 ppbv

RT: 3.45 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL034937.D

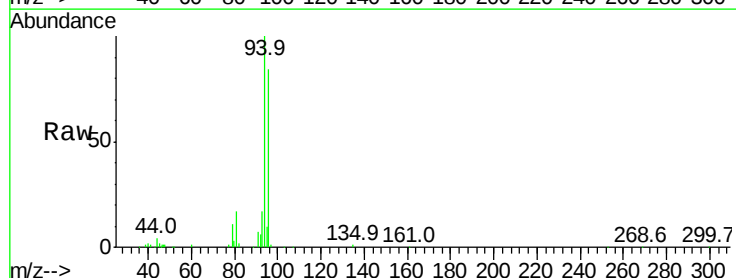
Acq: 6 May 2020 10:48

Tgt Ion: 94 Resp: 101167

Ion Ratio Lower Upper

94 100

96 82.7 67.9 101.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.45

80000

60000

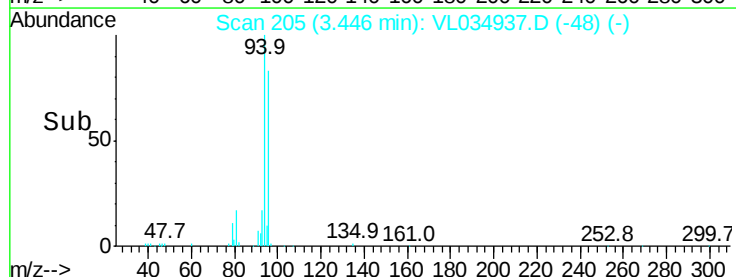
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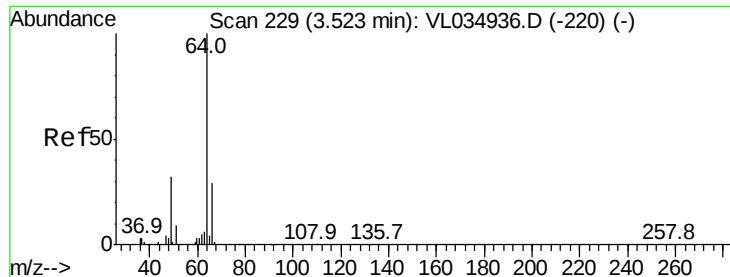
20000

0

Time-->

3.40 3.45 3.50





#7

Chloroethane

Concen: 2.246 ppbv

RT: 3.53 min Scan# 231

Delta R.T. 0.01 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

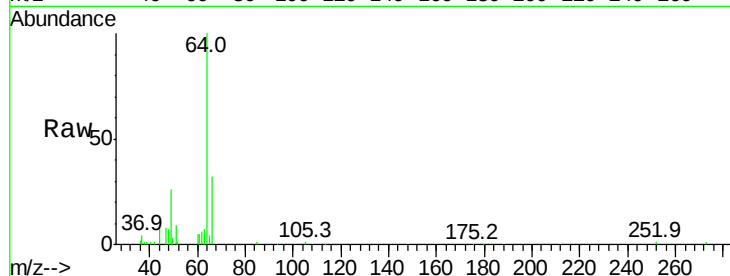
VSTDIC002

Tgt Ion: 64 Resp: 60170

Ion Ratio Lower Upper

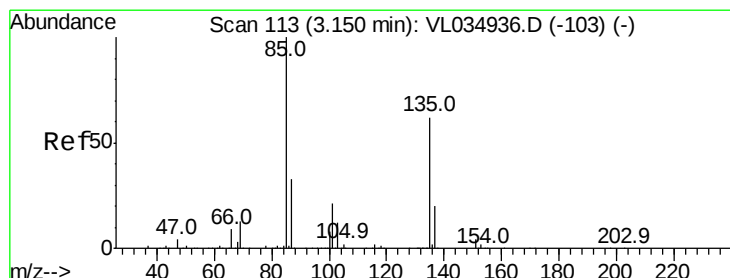
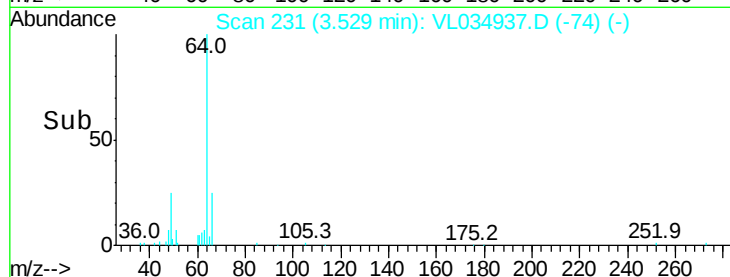
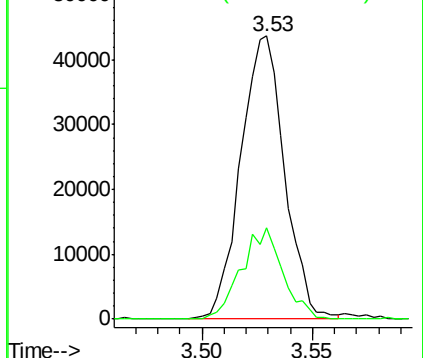
64 100

66 32.2 23.2 34.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 2.252 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034937.D

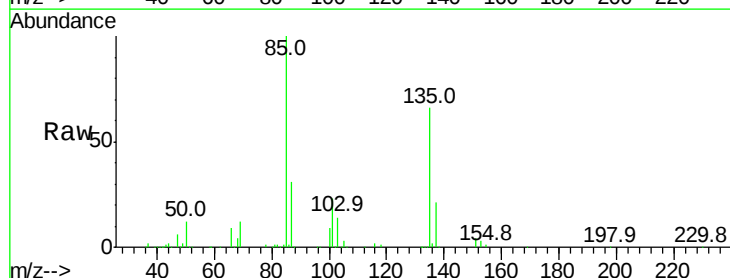
Acq: 6 May 2020 10:48

Tgt Ion: 85 Resp: 391360

Ion Ratio Lower Upper

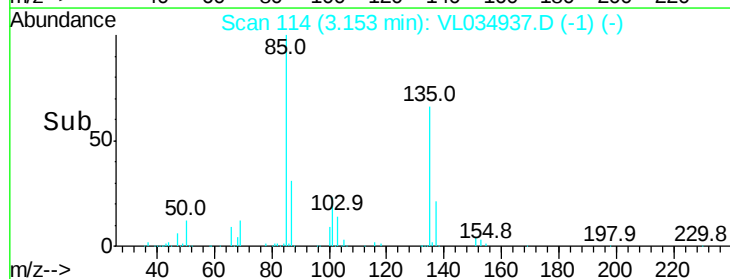
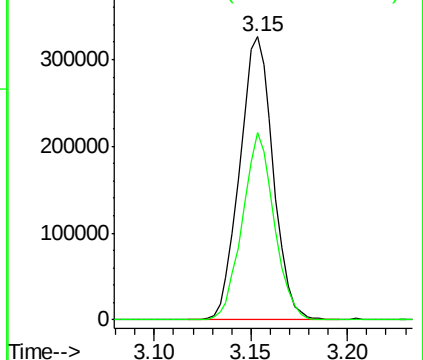
85 100

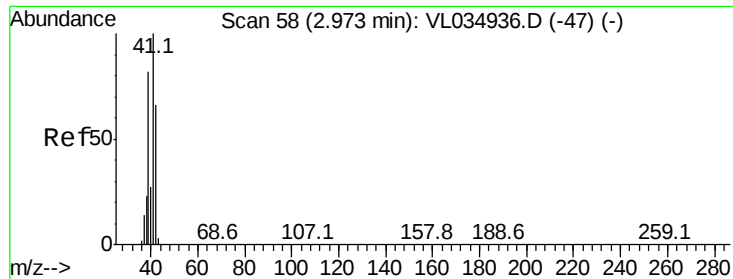
135 63.0 50.9 76.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 2.010 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

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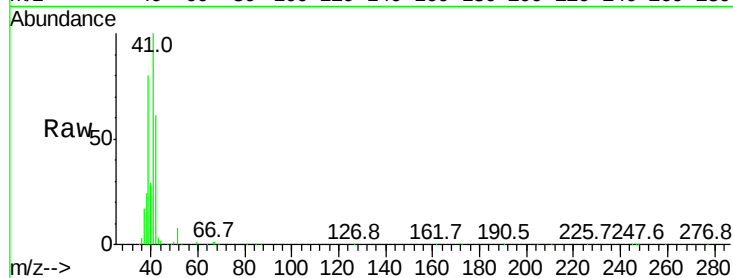
VSTDIC002

Tgt Ion: 41 Resp: 131043

Ion Ratio Lower Upper

41 100

42 69.5 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.97

120000

100000

80000

60000

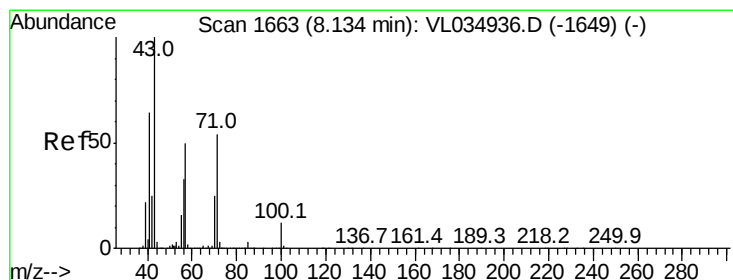
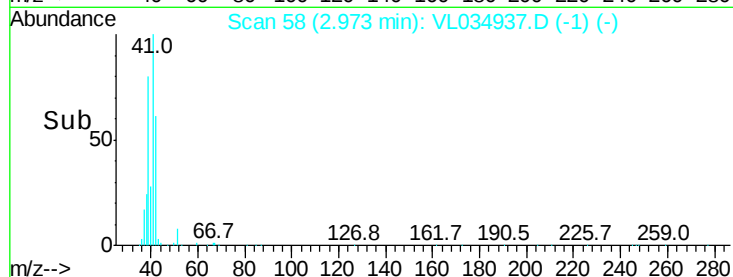
40000

20000

0

2.95 3.00

Time-->



#10

Heptane

Concen: 2.087 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL034937.D

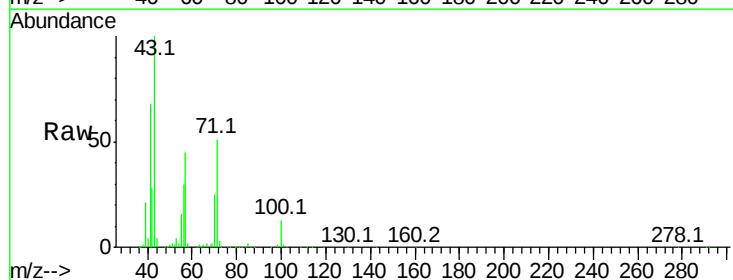
Acq: 6 May 2020 10:48

Tgt Ion: 43 Resp: 334814

Ion Ratio Lower Upper

43 100

57 51.5 41.1 61.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.14

200000

150000

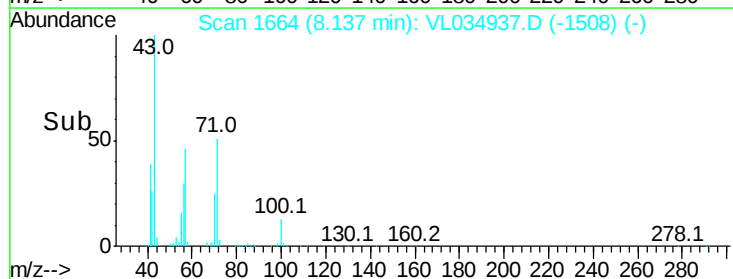
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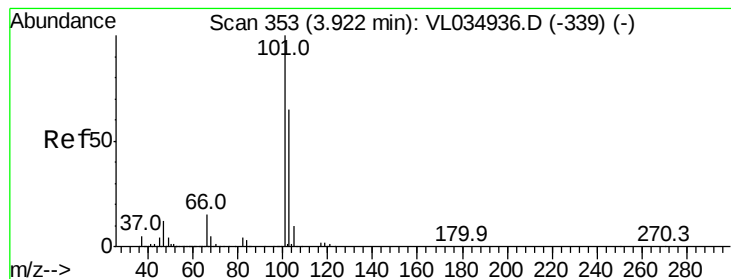
50000

0

8.05 8.10 8.15 8.20

Time-->





#11

Trichlorofluoromethane

Concen: 2.197 ppbv

RT: 3.92 min Scan# 354

Delta R.T. 0.00 min

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Acq: 6 May 2020 10:48

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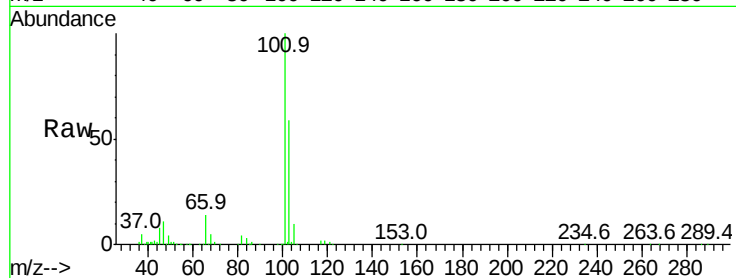
VSTDIC002

Tgt Ion:101 Resp: 391226

Ion Ratio Lower Upper

101 100

103 59.0 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.92

250000

200000

150000

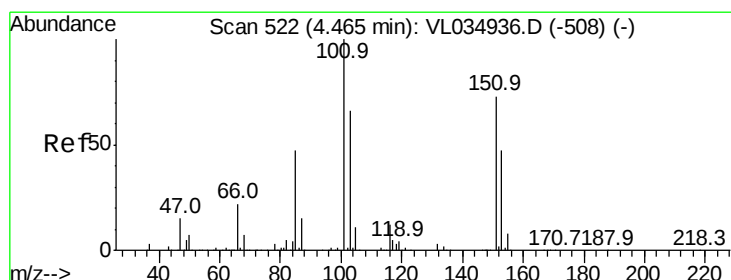
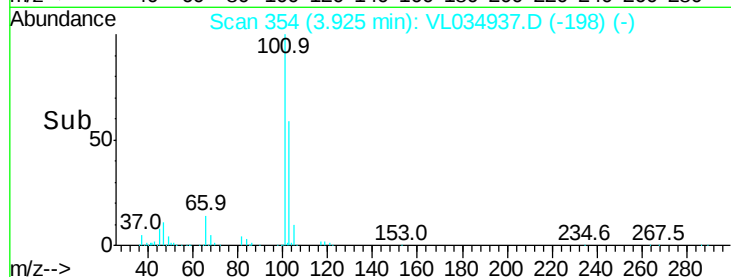
100000

50000

0

Time-->

3.90 3.95



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.257 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.00 min

Lab File: VL034937.D

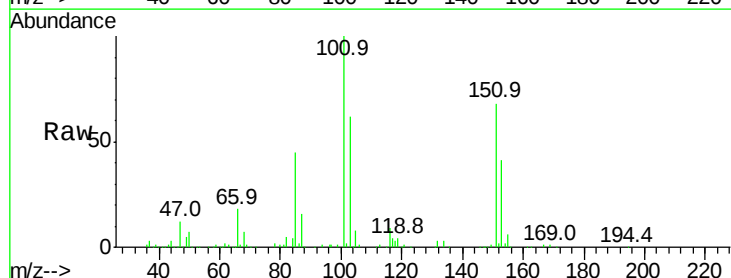
Acq: 6 May 2020 10:48

Tgt Ion:101 Resp: 281221

Ion Ratio Lower Upper

101 100

151 71.7 57.6 86.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.47

200000

150000

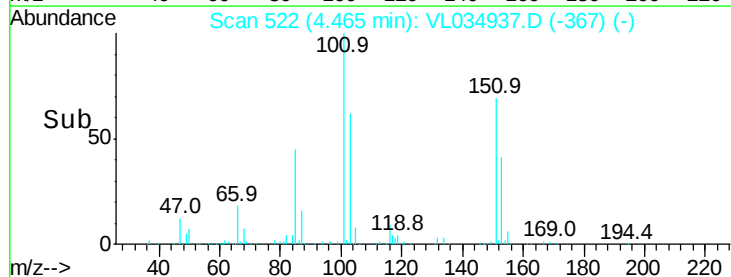
100000

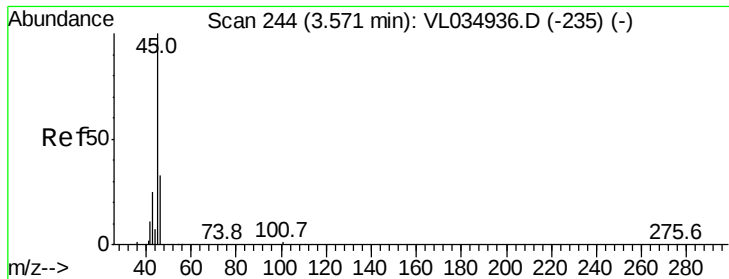
50000

0

Time-->

4.40 4.45 4.50

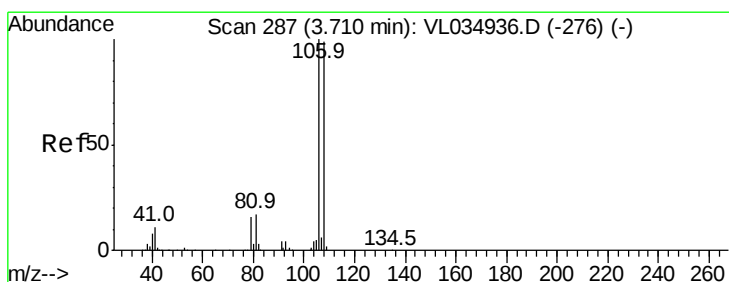
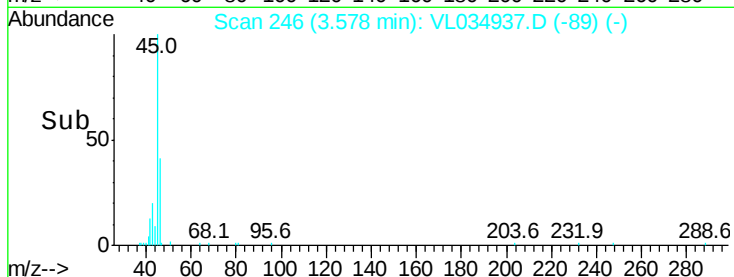
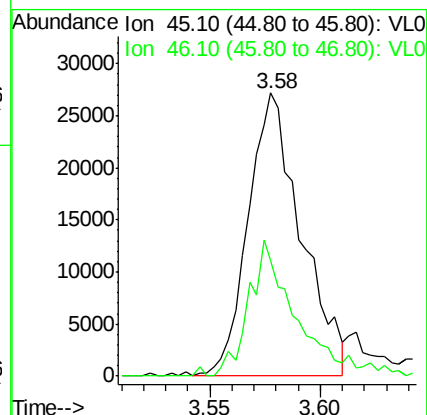
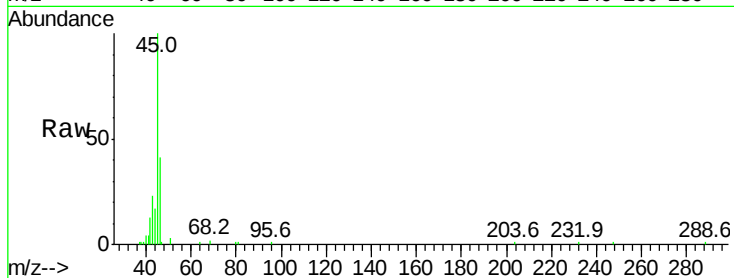




#13
Ethanol
Concen: 2.289 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.01 min
Lab File: VL034937.D
Acq: 6 May 2020 10:48

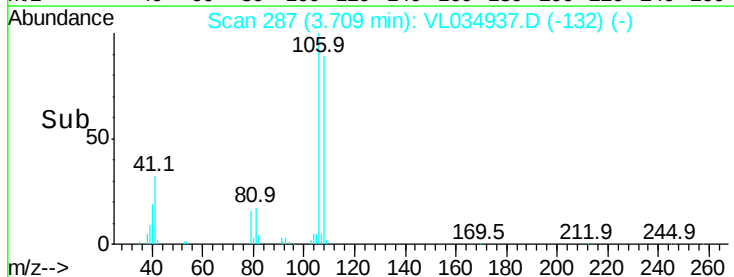
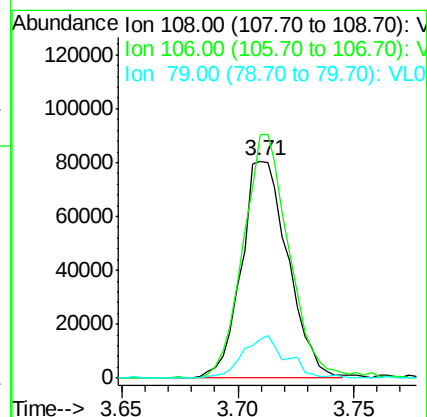
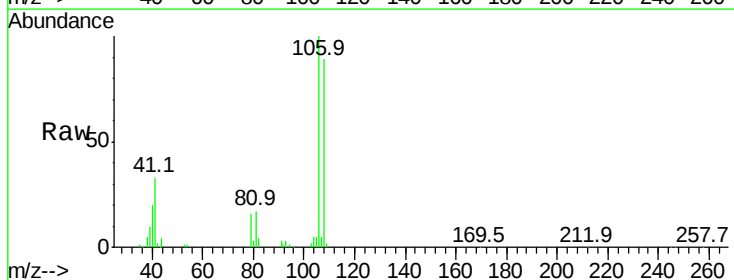
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

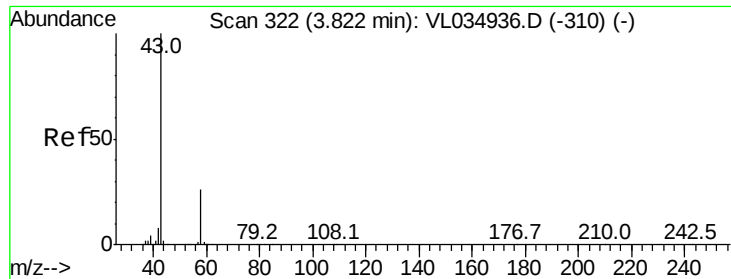
Tgt Ion: 45 Resp: 45359
Ion Ratio Lower Upper
45 100
46 44.1 14.3 57.3



#14
Bromoethene
Concen: 2.087 ppbv
RT: 3.71 min Scan# 287
Delta R.T. -0.00 min
Lab File: VL034937.D
Acq: 6 May 2020 10:48

Tgt Ion: 108 Resp: 112314
Ion Ratio Lower Upper
108 100
106 111.9 84.9 127.3
79 18.4 14.1 21.1





#15

Acetone

Concen: 2.312 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

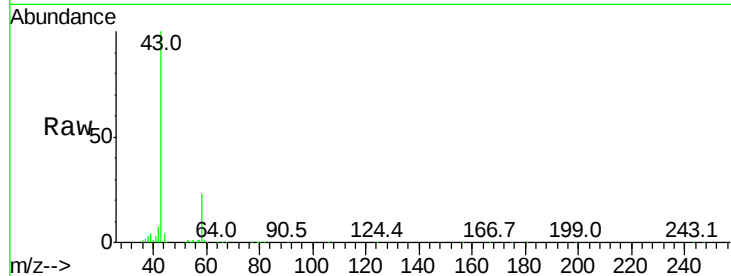
VSTDIC002

Tgt Ion: 43 Resp: 366184

Ion Ratio Lower Upper

43 100

58 27.8 21.7 32.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

250000

200000

150000

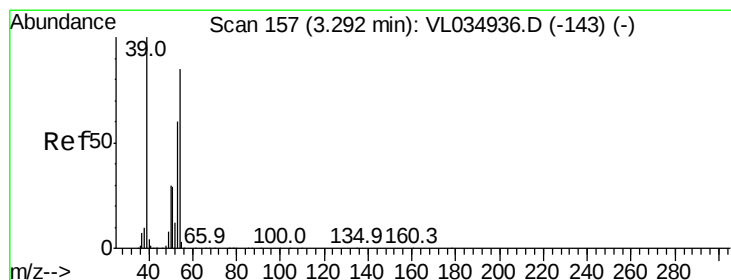
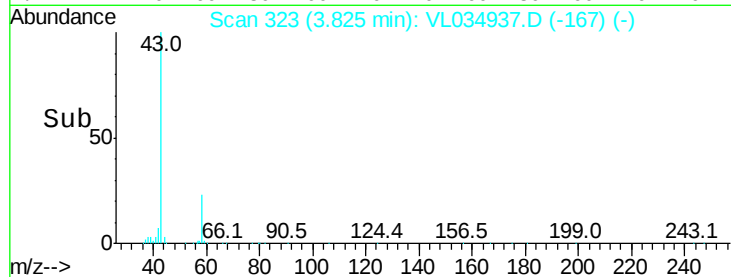
100000

50000

0

Time-->

3.80 3.85



#16

1,3-Butadiene

Concen: 2.181 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034937.D

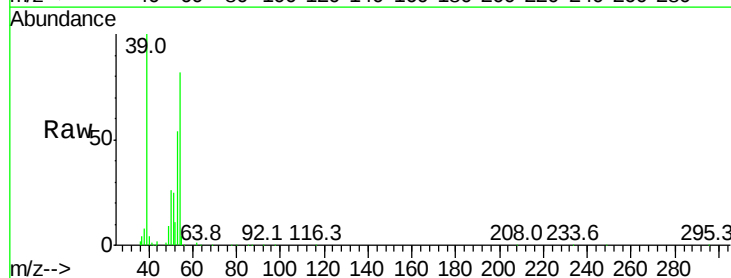
Acq: 6 May 2020 10:48

Tgt Ion: 39 Resp: 156214

Ion Ratio Lower Upper

39 100

54 79.8 66.6 100.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.29

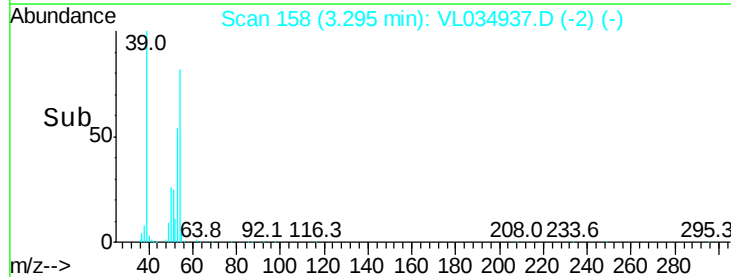
100000

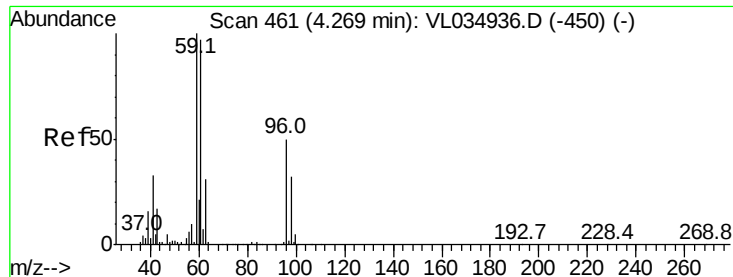
50000

0

Time-->

3.25 3.30 3.35





#17

tert-Butyl alcohol

Concen: 2.054 ppbv

RT: 4.27 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

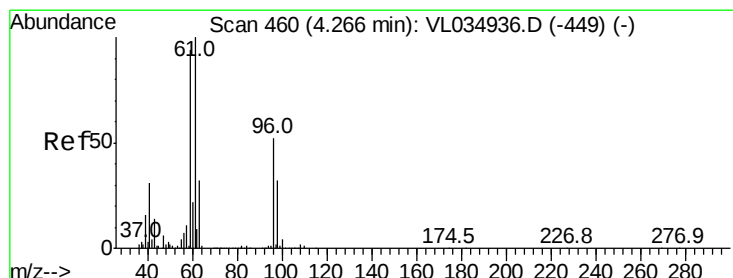
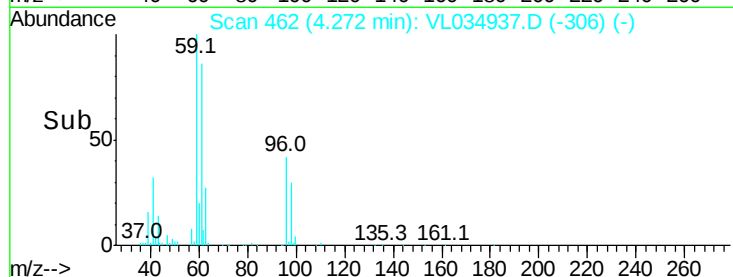
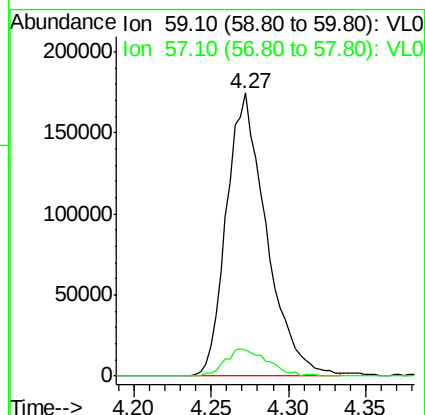
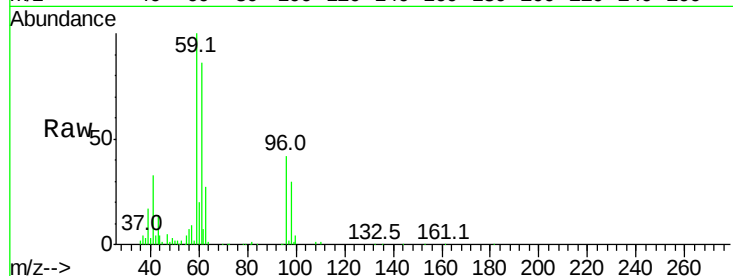
VSTDIC002

Tgt Ion: 59 Resp: 313459

Ion Ratio Lower Upper

59 100

57 10.4 8.7 13.1



#18

1,1-Dichloroethene

Concen: 2.185 ppbv

RT: 4.27 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

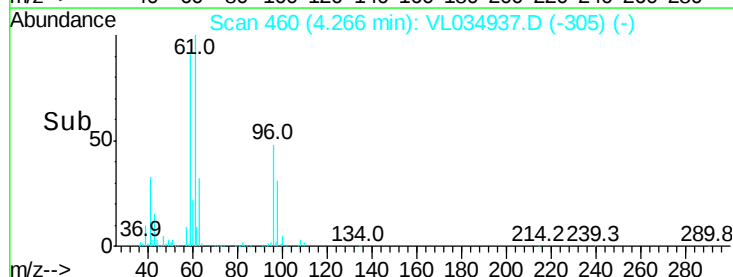
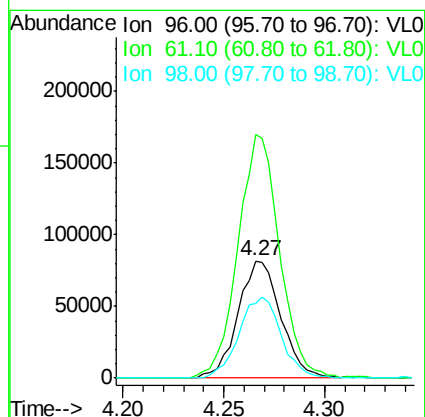
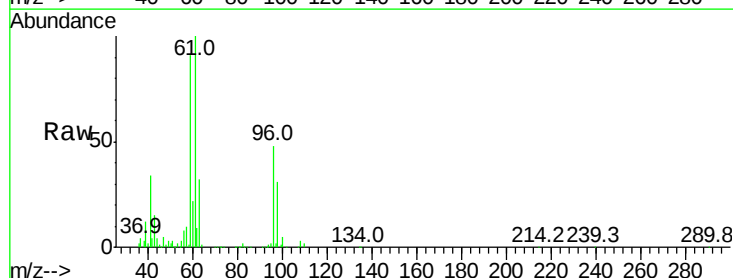
Tgt Ion: 96 Resp: 120563

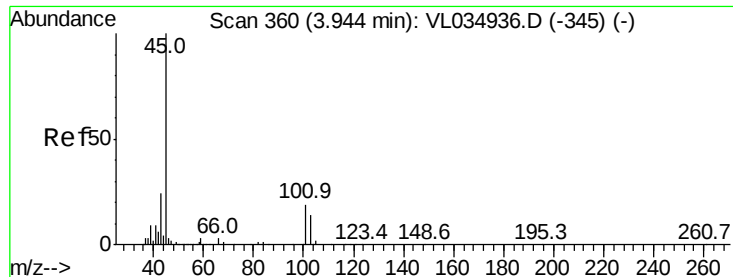
Ion Ratio Lower Upper

96 100

61 208.3 152.4 228.6

98 64.0 48.8 73.2





#19

Isopropyl Alcohol

Concen: 2.387 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

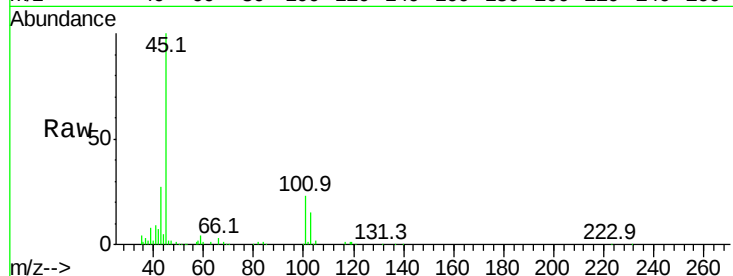
VSTDIC002

Tgt Ion: 45 Resp: 238811

Ion Ratio Lower Upper

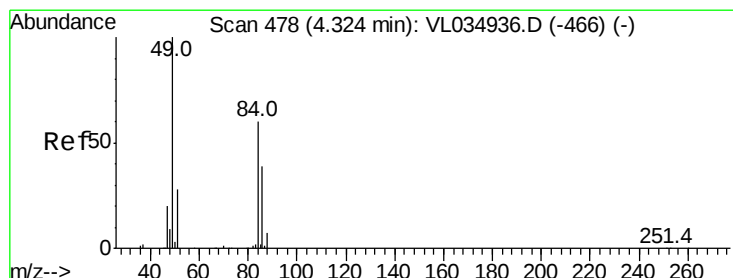
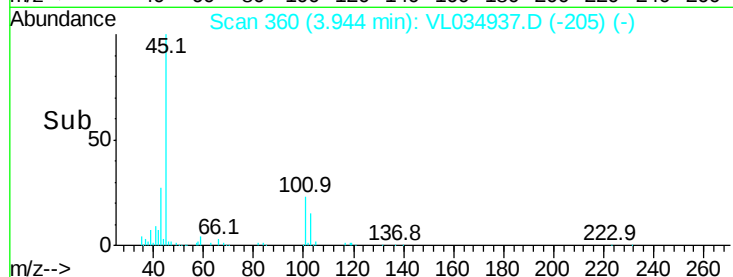
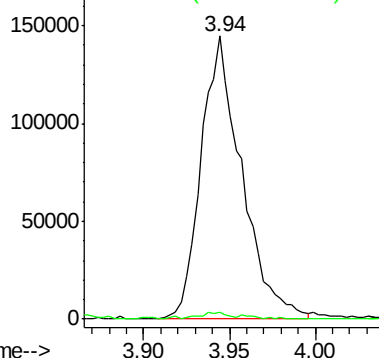
45 100

58 2.9 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 2.300 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Tgt Ion: 84 Resp: 115208

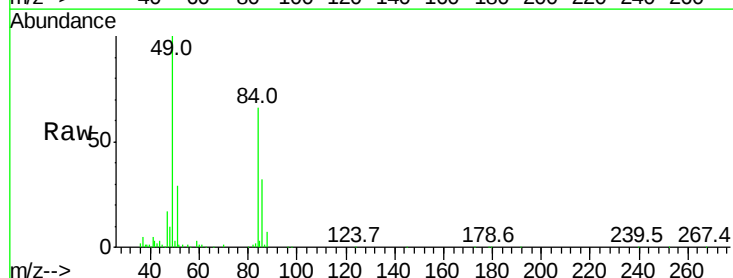
Ion Ratio Lower Upper

84 100

49 148.4 132.5 198.7

51 42.4 38.4 57.6

86 47.8 51.2 76.8#

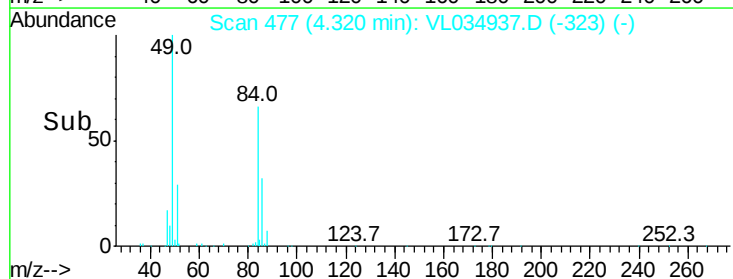
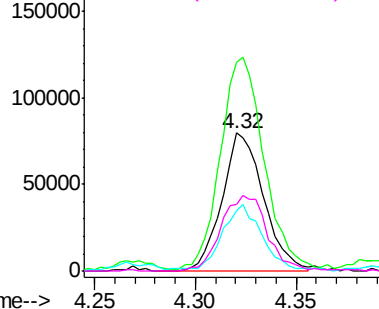


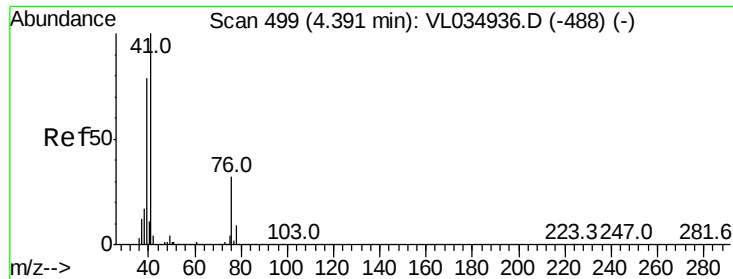
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

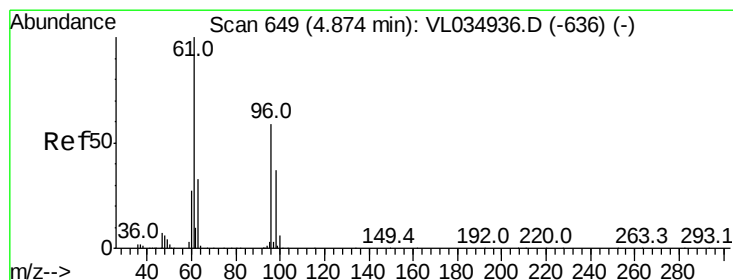
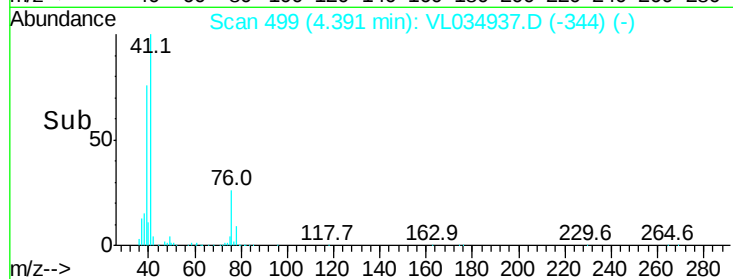
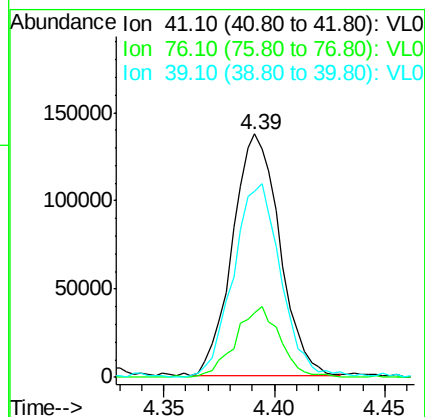
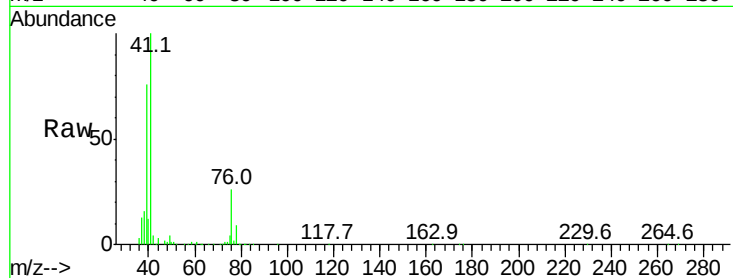




#21
 Allyl Chloride
 Concen: 1.991 ppbv
 RT: 4.39 min Scan# 499
 Delta R.T. -0.00 min
 Lab File: VL034937.D
 Acq: 6 May 2020 10:48

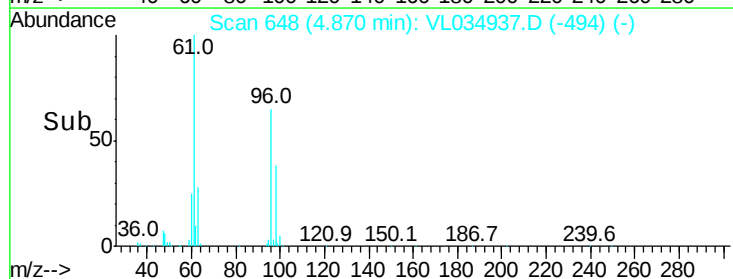
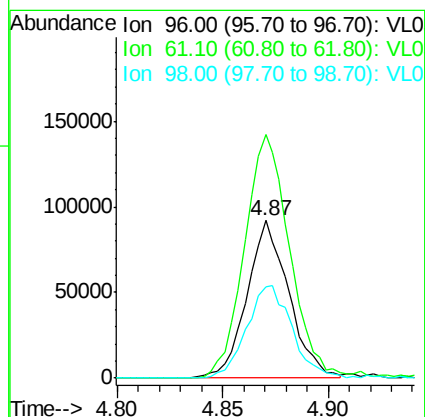
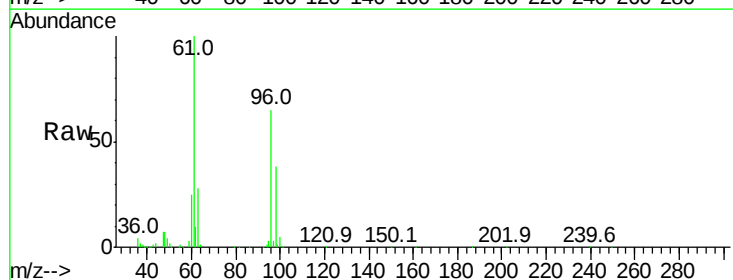
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

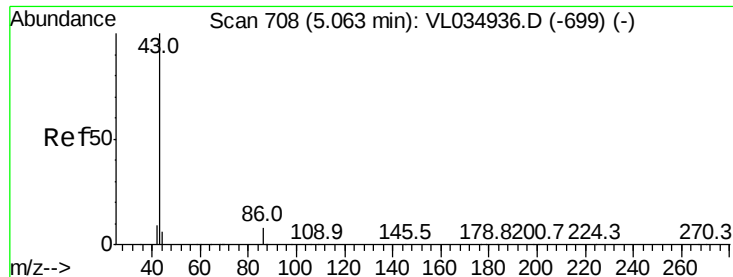
Tgt Ion: 41 Resp: 202529
 Ion Ratio Lower Upper
 41 100
 76 28.0 23.6 35.4
 39 81.7 61.9 92.9



#22
 trans-1,2-Dichloroethene
 Concen: 2.271 ppbv
 RT: 4.87 min Scan# 648
 Delta R.T. -0.00 min
 Lab File: VL034937.D
 Acq: 6 May 2020 10:48

Tgt Ion: 96 Resp: 127170
 Ion Ratio Lower Upper
 96 100
 61 154.5 135.3 202.9
 98 58.1 50.4 75.6





#23

Vinyl Acetate

Concen: 2.068 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 483795

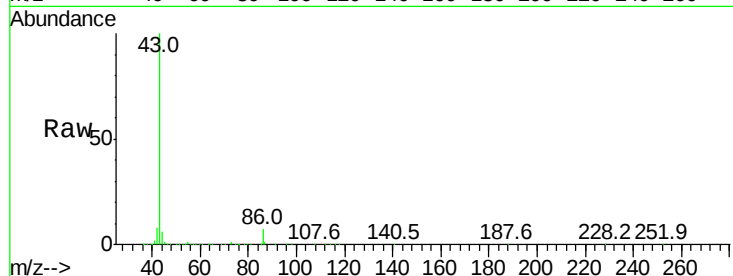
Ion Ratio Lower Upper

43 100

86 7.5 5.5 8.3

42 8.2 8.0 12.0

44 5.3 4.5 6.7

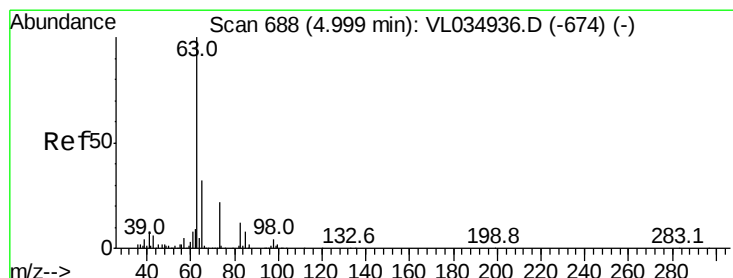
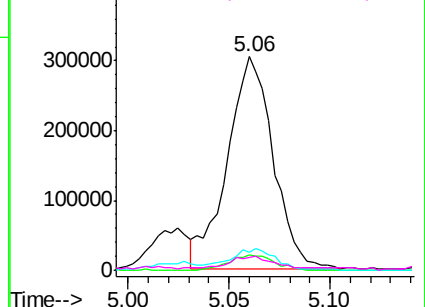
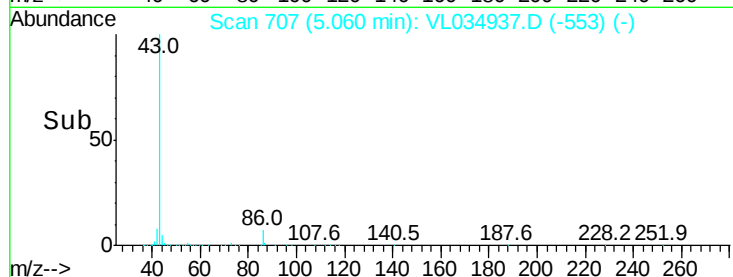


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.168 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

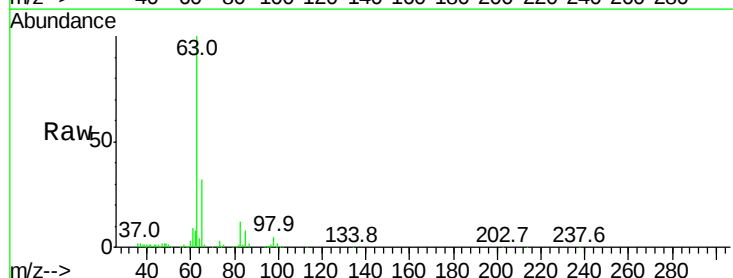
Tgt Ion: 63 Resp: 340077

Ion Ratio Lower Upper

63 100

98 4.5 2.0 6.0

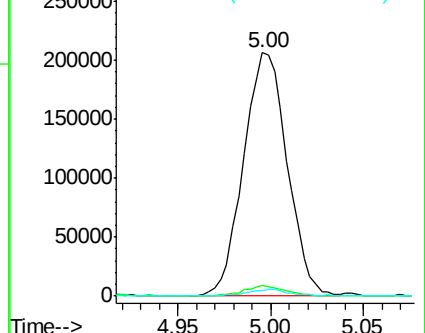
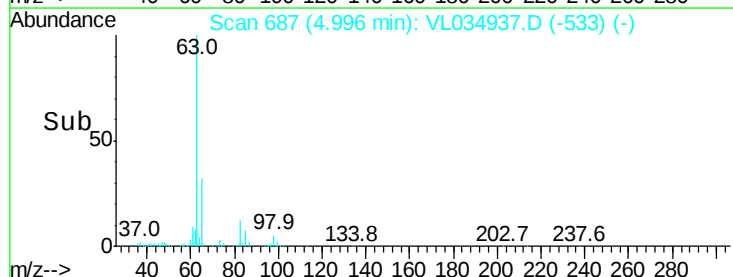
100 2.3 1.1 3.5

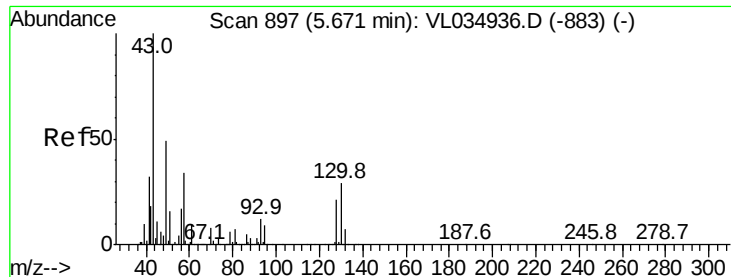


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

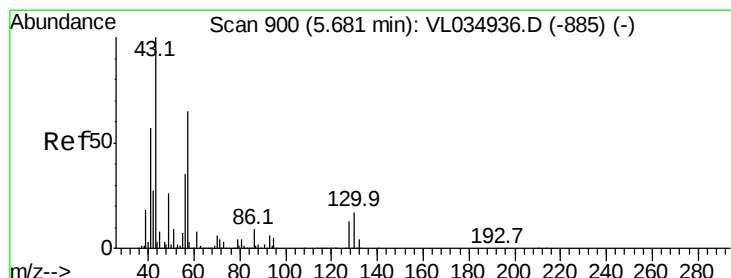
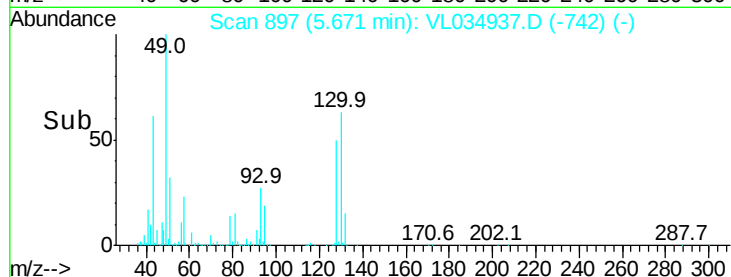
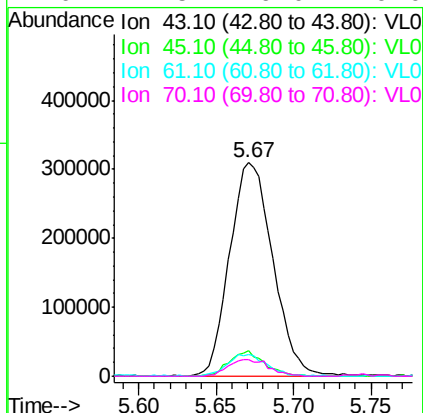
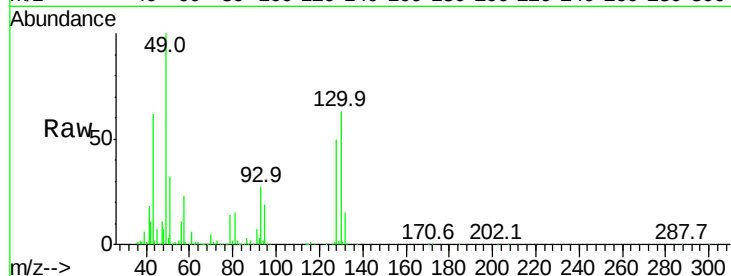




#25
Ethyl Acetate
Concen: 2.118 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL034937.D
Acq: 6 May 2020 10:48

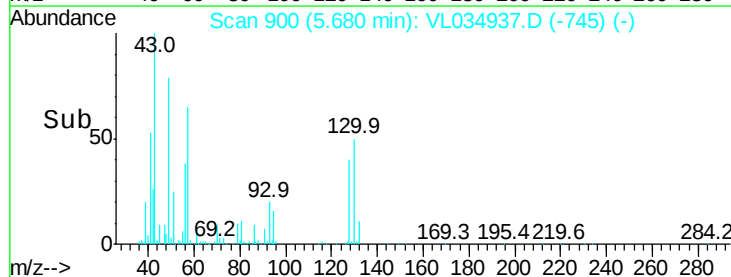
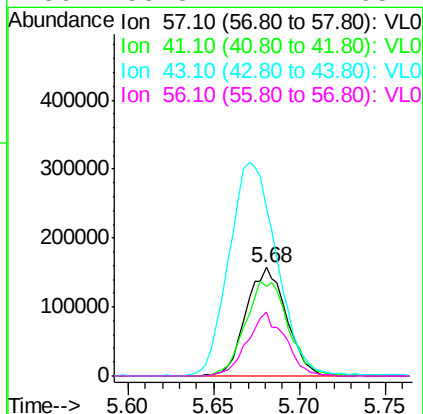
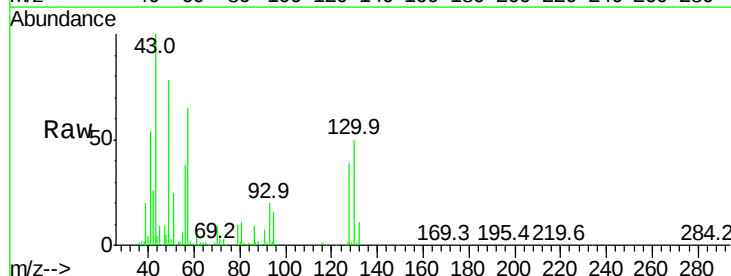
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

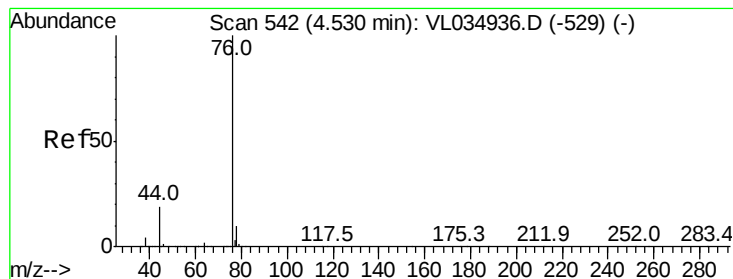
Tgt Ion:	43	Resp:	597735
Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.1	12.1
61	9.2	7.8	11.8
70	7.5	6.0	9.0



#26
Hexane
Concen: 2.112 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL034937.D
Acq: 6 May 2020 10:48

Tgt Ion:	57	Resp:	256679
Ion	Ratio	Lower	Upper
57	100		
41	94.4	72.7	109.1
43	235.2	182.1	273.1
56	55.3	42.2	63.2





#27

Carbon Disulfide

Concen: 2.201 ppbv

RT: 4.53 min Scan# 543

Delta R.T. 0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

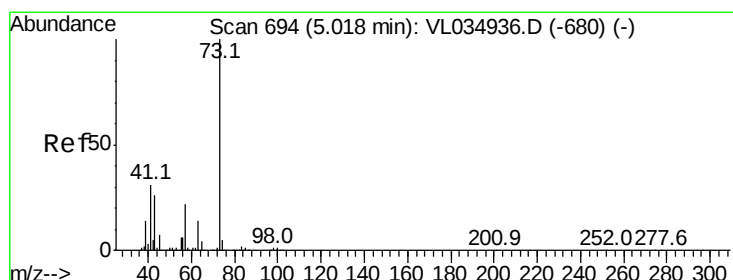
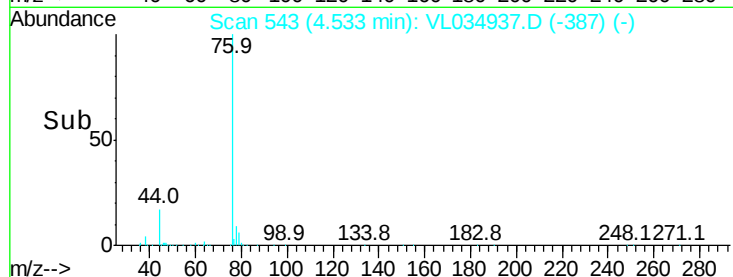
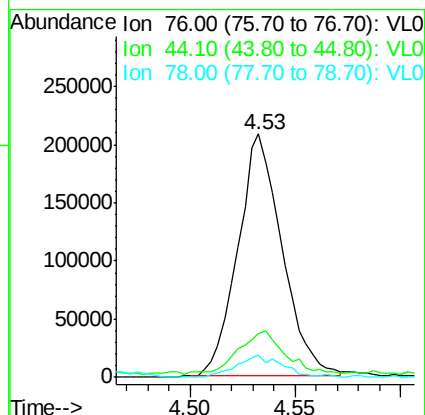
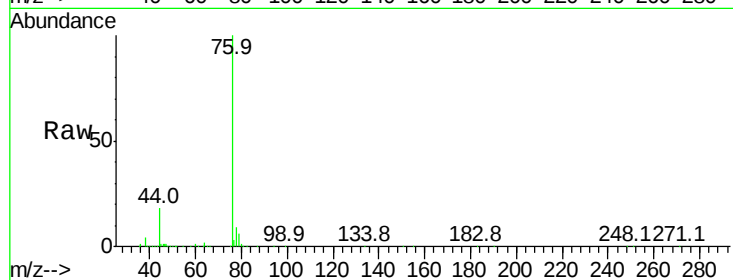
Tgt Ion: 76 Resp: 303517

Ion Ratio Lower Upper

76 100

44 19.1 15.2 22.8

78 9.8 7.7 11.5



#28

Methyl tert-Butyl Ether

Concen: 1.969 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL034937.D

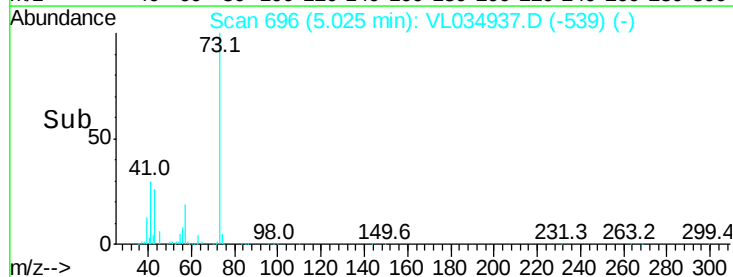
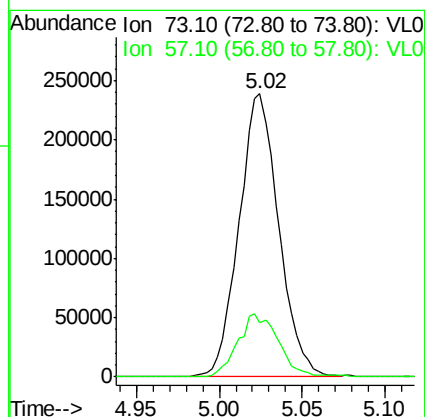
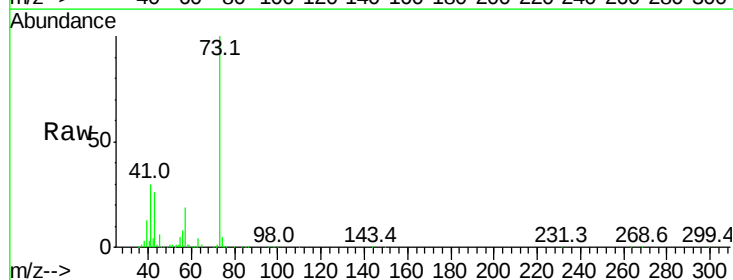
Acq: 6 May 2020 10:48

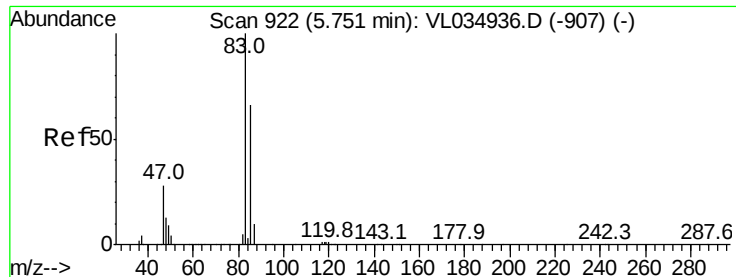
Tgt Ion: 73 Resp: 398025

Ion Ratio Lower Upper

73 100

57 23.0 18.3 27.5





#29

Chloroform

Concen: 2.257 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

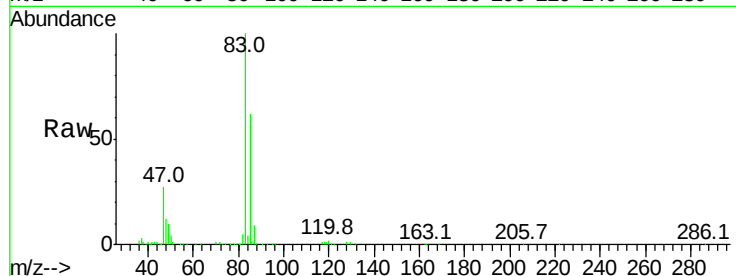
VSTDIC002

Tgt Ion: 83 Resp: 418453

Ion Ratio Lower Upper

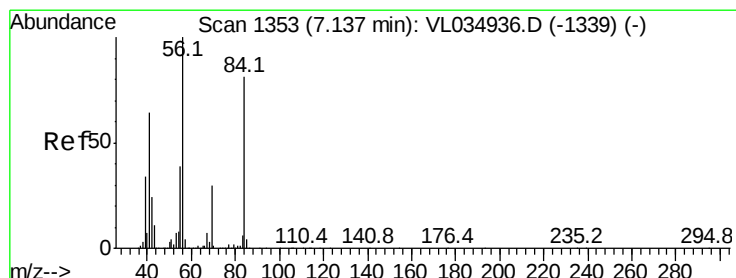
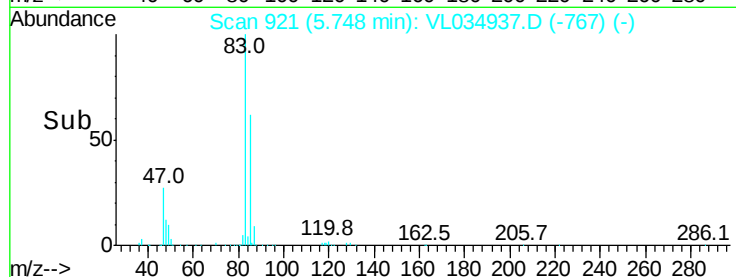
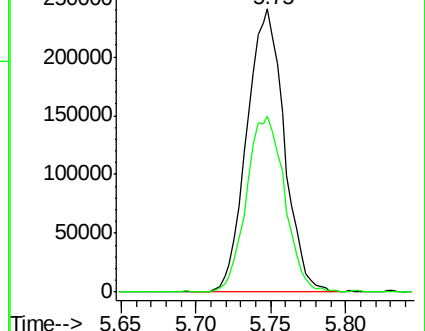
83 100

85 62.1 53.0 79.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 1.979 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. -0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

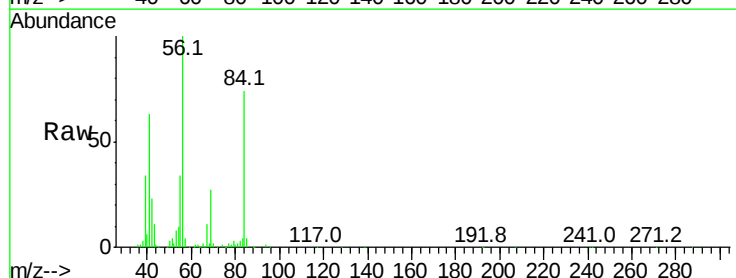
Tgt Ion: 84 Resp: 200614

Ion Ratio Lower Upper

84 100

56 167.8 111.4 167.2#

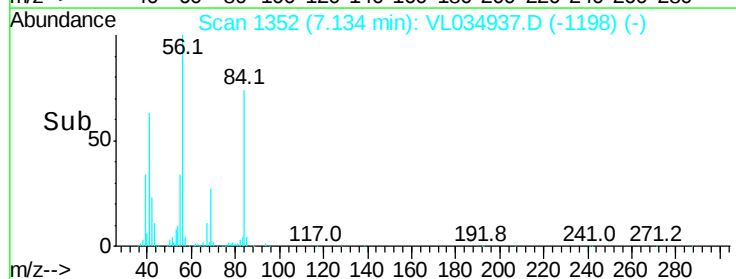
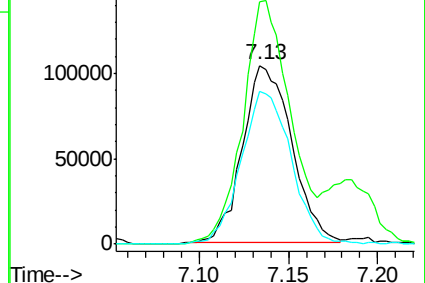
41 88.2 66.7 100.1

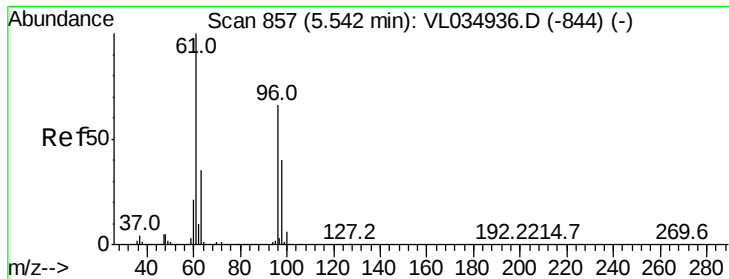


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



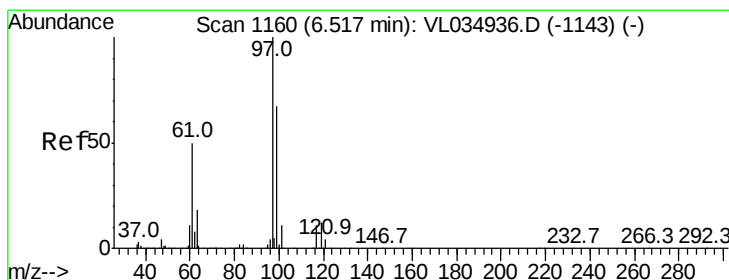
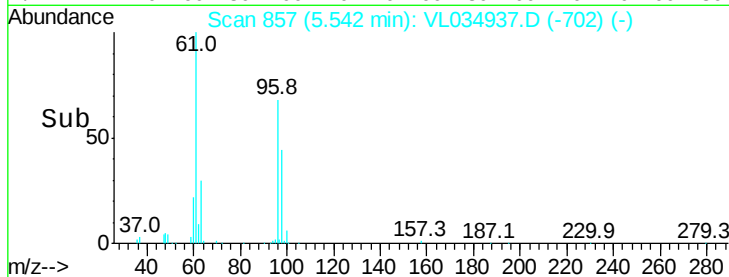
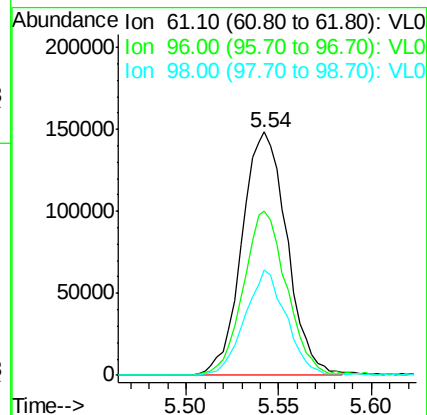
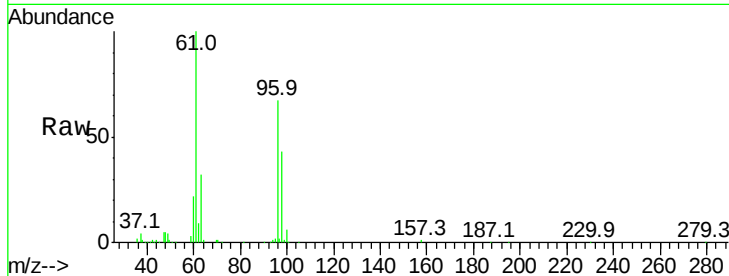


#31

cis-1,2-Dichloroethene
Concen: 2.024 ppbv
RT: 5.54 min Scan# 857
Delta R.T. -0.00 min
Lab File: VL034937.D
Acq: 6 May 2020 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

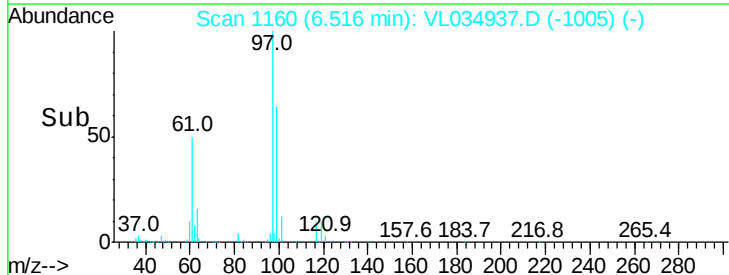
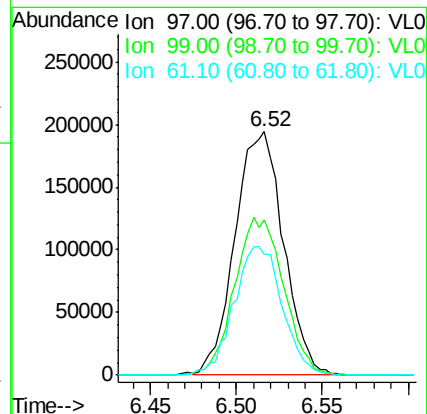
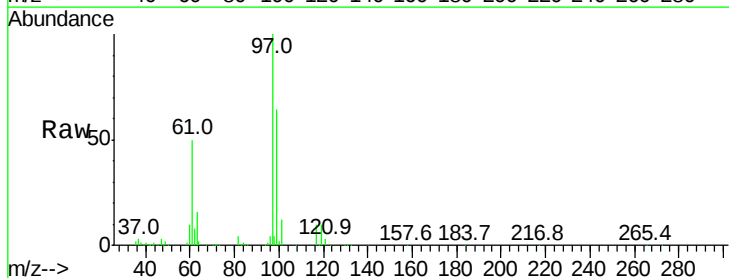
Tgt Ion	Ratio	Lower	Upper
61	100		
96	67.3	53.0	79.6
98	43.3	32.2	48.2

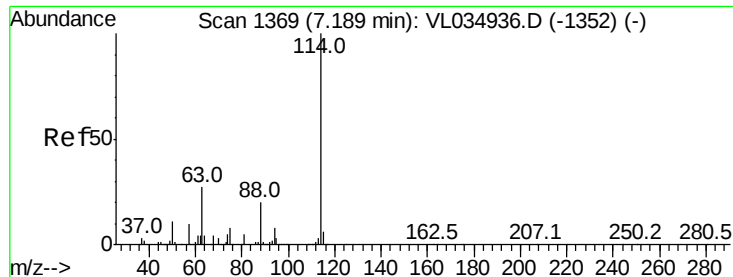


#32

1,1,1-Trichloroethane
Concen: 2.098 ppbv
RT: 6.52 min Scan# 1160
Delta R.T. -0.00 min
Lab File: VL034937.D
Acq: 6 May 2020 10:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.1	78.1
61	53.1	41.8	62.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.00 min

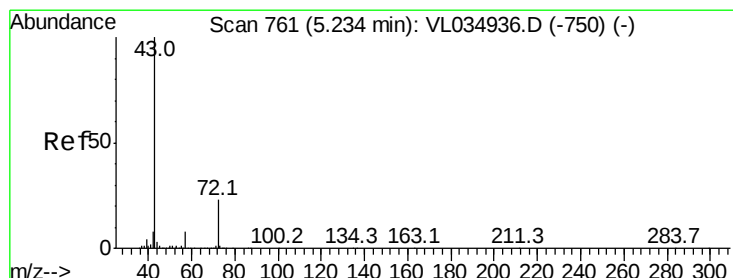
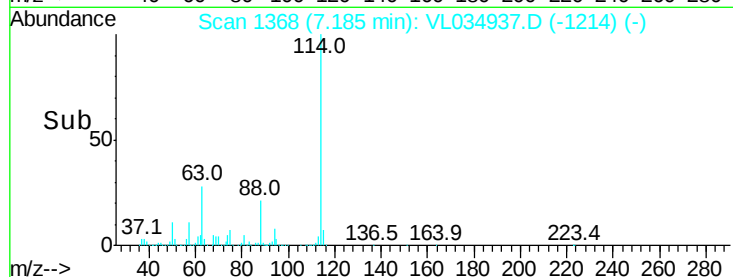
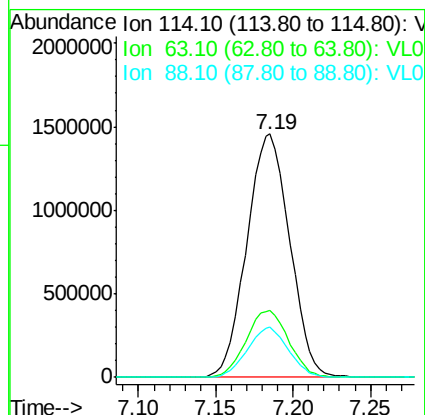
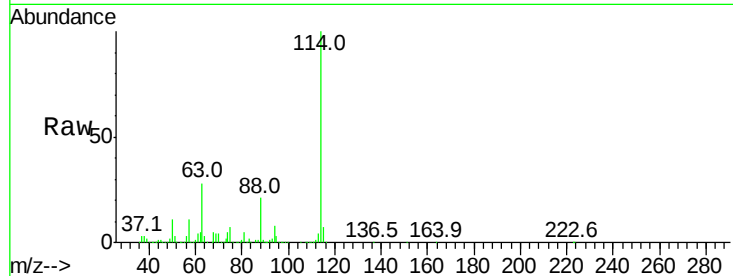
Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:114 Resp: 2810612

Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.2	33.4
88	19.7	15.5	23.3



#34

2-Butanone

Concen: 2.096 ppbv

RT: 5.23 min Scan# 761

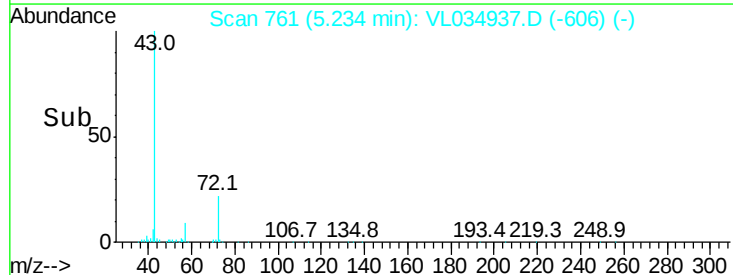
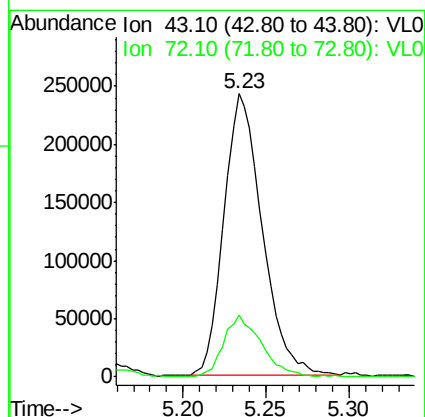
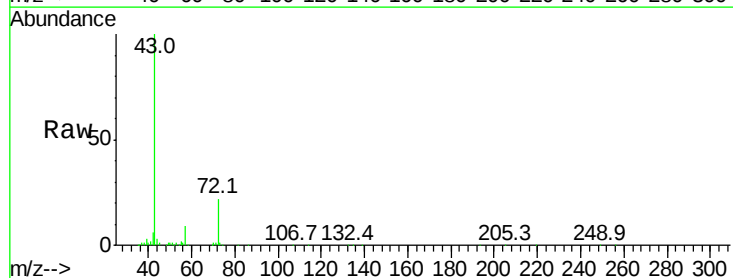
Delta R.T. -0.00 min

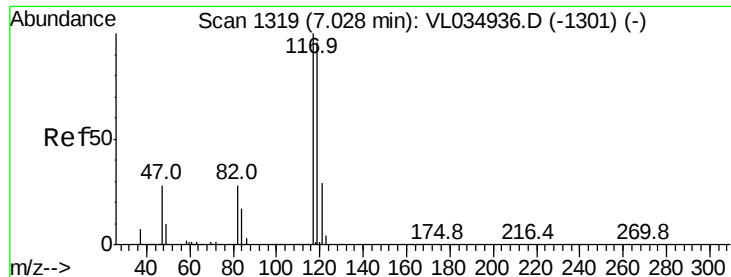
Lab File: VL034937.D

Acq: 6 May 2020 10:48

Tgt Ion: 43 Resp: 391435

Ion	Ratio	Lower	Upper
43	100		
72	21.7	18.0	27.0





#35

Carbon Tetrachloride

Concen: 2.243 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. -0.00 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

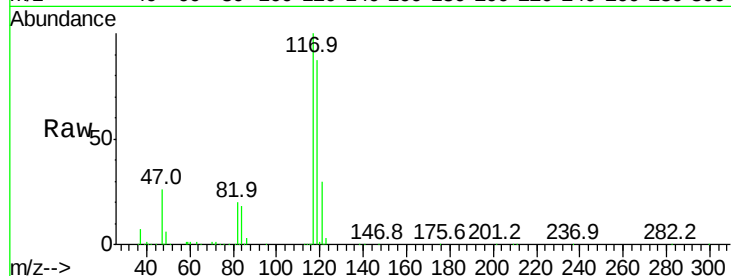
Tgt Ion:117 Resp: 392173

Ion Ratio Lower Upper

117 100

119 86.7 77.0 115.6

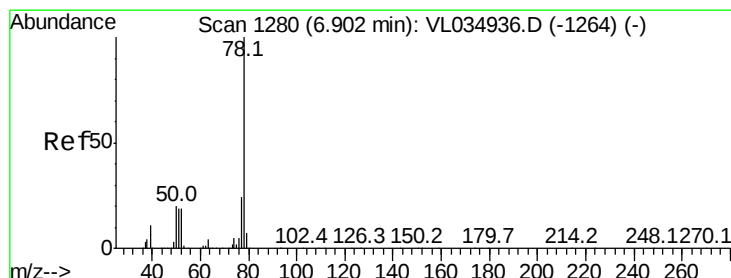
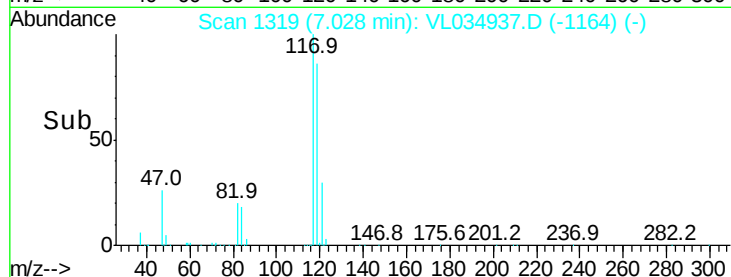
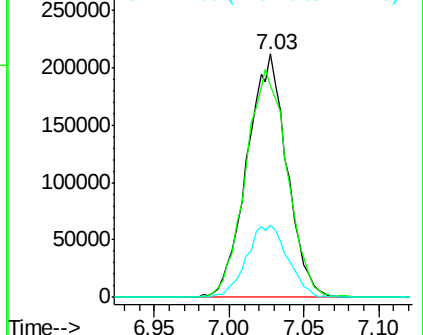
121 29.6 23.0 34.6



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: 2.101 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.01 min

Lab File: VL034937.D

Acq: 6 May 2020 10:48

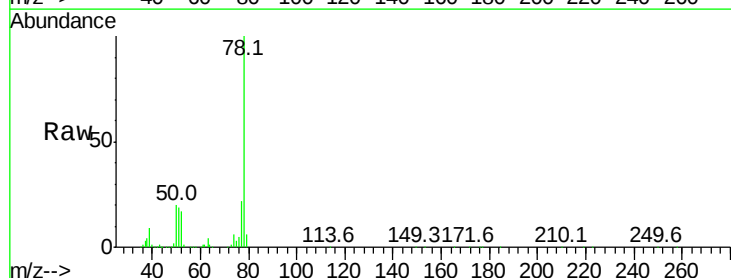
Tgt Ion: 78 Resp: 526286

Ion Ratio Lower Upper

78 100

77 22.2 19.0 28.6

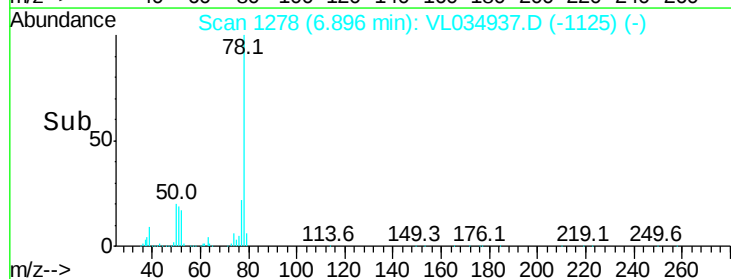
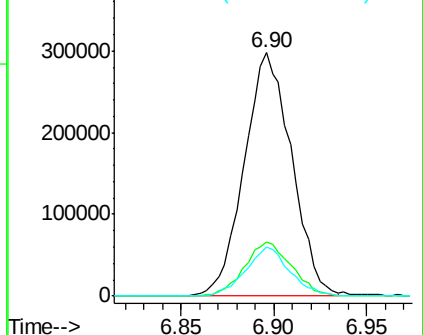
50 20.3 15.8 23.8

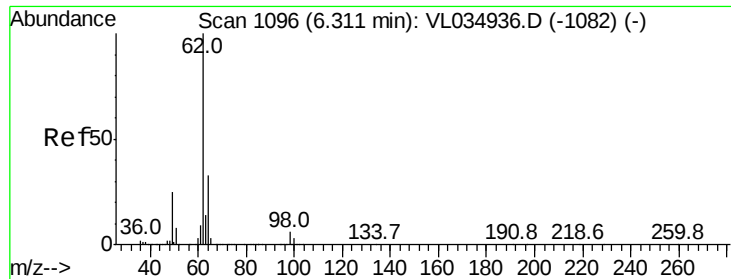


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

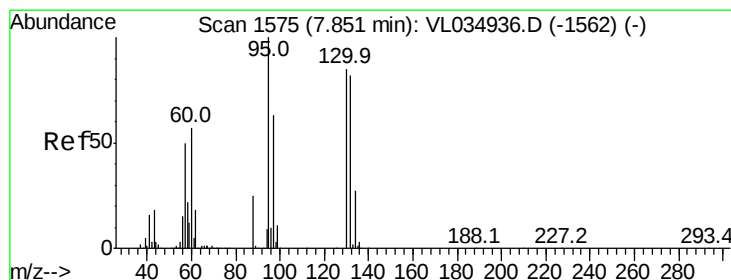
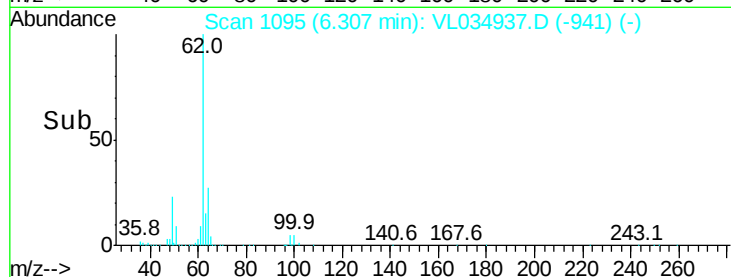
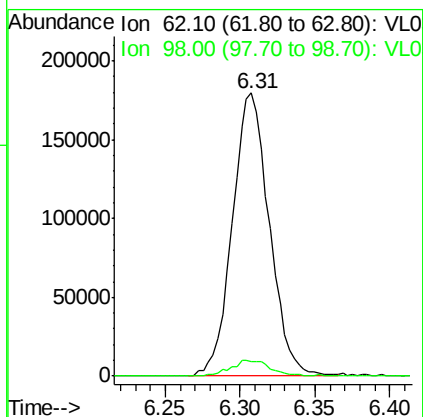
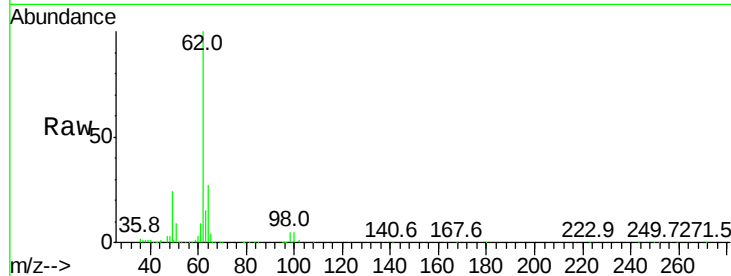




#37
 1,2-Dichloroethane
 Concen: 2.179 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.00 min
 Lab File: VL034937.D
 Acq: 6 May 2020 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 62 Resp: 307795
 Ion Ratio Lower Upper
 62 100
 98 6.0 4.8 7.2



#38
 Trichloroethene
 Concen: 2.040 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL034937.D
 Acq: 6 May 2020 10:48

Tgt Ion: 130 Resp: 194097
 Ion Ratio Lower Upper
 130 100
 95 113.0 93.4 140.0
 132 100.9 76.4 114.6
 97 83.1 58.5 87.7

