

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033466.D
 Acq On : 27 Mar 2019 13:29
 Operator : SY/AP
 Sample : VL0327ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 28 07:26:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	803000	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1890747	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2144259	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1597286	9.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1107988	9.461	ppbv 98
3) Chlorodifluoromethane	3.01	51	887512	9.600	ppbv 100
4) Chloromethane	3.17	50	478575	9.783	ppbv 97
5) Vinyl Chloride	3.29	62	475677	9.897	ppbv 99
6) Bromomethane	3.51	94	307133	9.943	ppbv 93
7) Chloroethane	3.60	64	178999	10.006	ppbv 94
8) Dichlorotetrafluoroethane	3.22	85	1213049	9.721	ppbv 100
9) Propene	3.03	41	373479	9.620	ppbv 98
10) Heptane	8.25	43	1100897	10.608	ppbv 99
11) Trichlorofluoromethane	4.00	101	1385283	9.598	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	962003	9.923	ppbv 99
13) Ethanol	3.65	45	115595	11.506	ppbv 65
14) Bromoethene	3.78	108	392222	10.144	ppbv 99
15) Acetone	3.90	43	861278	8.920	ppbv 100
16) 1,3-Butadiene	3.36	39	399384	10.429	ppbv 90
17) tert-Butyl alcohol	4.35	59	190774	10.746	ppbv 98
18) 1,1-Dichloroethene	4.35	96	418086	10.040	ppbv 97
19) Isopropyl Alcohol	4.02	45	673851	11.034	ppbv 99
20) Methylene Chloride	4.41	84	364796	8.901	ppbv 94
21) Allyl Chloride	4.48	41	620655	10.169	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	431700	9.936	ppbv 96
23) Vinyl Acetate	5.15	43	1408909	10.252	ppbv 99
24) 1,1-Dichloroethane	5.09	63	998256	9.563	ppbv 99
25) Ethyl Acetate	5.76	43	1745883	9.746	ppbv 100
26) Hexane	5.78	57	776762	9.752	ppbv 99
27) Carbon Disulfide	4.62	76	1044552	11.028	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1152887	10.049	ppbv 100
29) Chloroform	5.85	83	1311276	9.604	ppbv 100
30) Cyclohexane	7.24	84	663560	10.531	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	802918	10.139	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	1318412	10.140	ppbv 99
34) 2-Butanone	5.33	43	1124606	9.900	ppbv 100
35) Carbon Tetrachloride	7.13	117	1421449	10.614	ppbv 99
36) Benzene	7.00	78	1625803	10.248	ppbv 98
37) 1,2-Dichloroethane	6.41	62	1023262	9.623	ppbv 99
38) Trichloroethene	7.96	130	689000	11.540	ppbv 99
39) 1,2-Dichloropropane	7.73	63	645916	10.393	ppbv 98
40) 1,4-Dioxane	7.95	88	264134	11.916	ppbv 81
41) Tetrahydrofuran	6.14	42	631341	10.104	ppbv 98
42) Bromodichloromethane	7.91	83	1551575	10.713	ppbv 100
43) Methyl Methacrylate	8.13	69	708309	10.996	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2910887	10.500	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	958735	12.122	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	1083034	11.726	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	718734	10.185	ppbv	99
48) Dibromochloromethane	10.45	129	1347377	11.320	ppbv	100
49) Bromoform	13.20	173	1226179	10.783	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1789458	10.758	ppbv	100
51) 2-Hexanone	10.27	43	1412713	11.386	ppbv	99
52) Tetrachloroethene	11.37	164	663079	11.078	ppbv	96
53) Toluene	9.94	91	2071723	11.238	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1180373	10.694	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	950813	9.675	ppbv	95
57) Chlorobenzene	12.30	112	1600048	9.610	ppbv	99
58) Ethyl Benzene	12.86	91	2944287	10.282	ppbv	98
59) m/p-Xylene	13.15	91	2100233	8.211	ppbv #	100
60) o-Xylene	13.85	91	2450412	9.908	ppbv	100
61) Styrene	13.68	104	1807543	10.648	ppbv	100
62) Isopropylbenzene	14.82	105	3421775	9.770	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1696854	9.318	ppbv	99
64) n-propylbenzene	15.72	120	892391	10.041	ppbv	98
65) tert-Butylbenzene	16.91	119	3100456	10.046	ppbv	100
66) Benzyl Chloride	17.16	91	1726541	12.030	ppbv	100
67) sec-Butylbenzene	17.46	105	4416207	10.062	ppbv	100
69) p-Isopropyltoluene	17.81	119	3692587	10.333	ppbv	100
70) n-Butylbenzene	18.71	91	3902234	10.306	ppbv	100
71) 2-Chlorotoluene	15.61	91	2690377	10.102	ppbv	100
72) 4-Ethyltoluene	16.00	105	2871209	10.328	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2768274	10.405	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2869772	10.064	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	1693349	9.608	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1702275	9.913	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1658605	9.918	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	918879	8.301	ppbv	99
79) Naphthalene	22.41	128	2832391	11.603	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	789720	9.640	ppbv	96
81) 1,2,4-Trichlorobenzene	22.13	180	1456887	10.760	ppbv	99

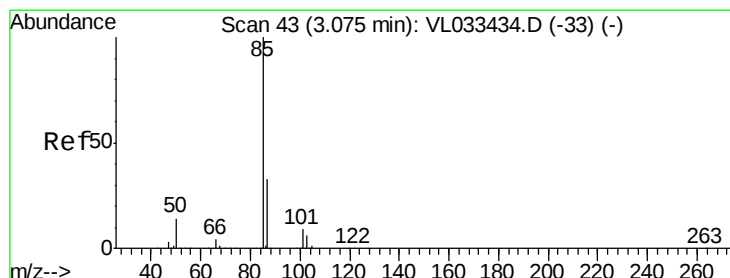
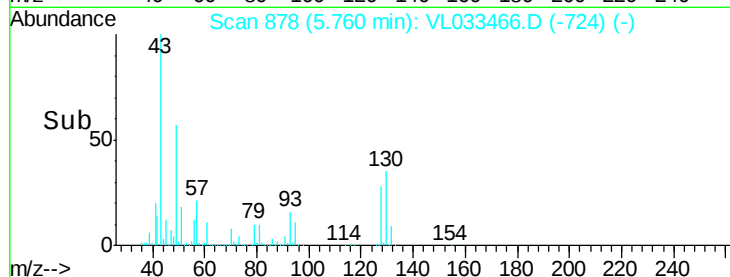
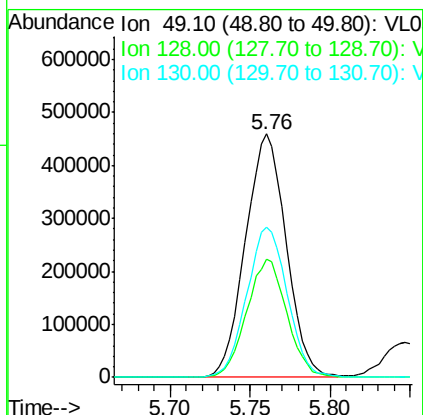
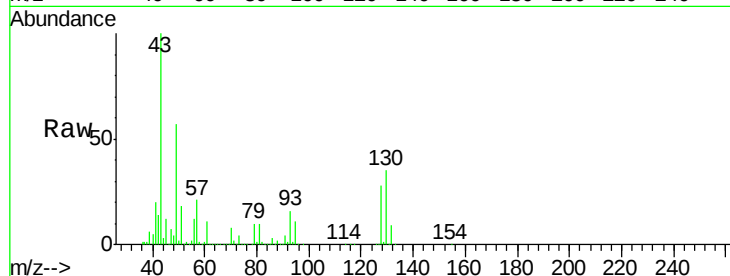
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

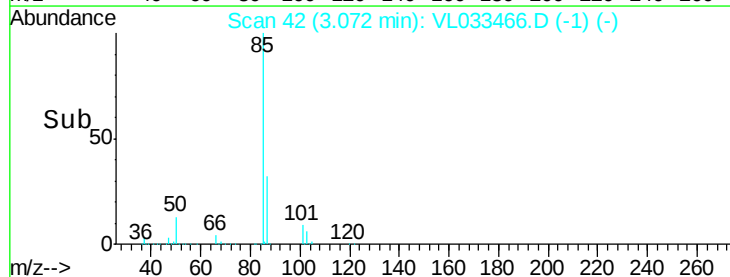
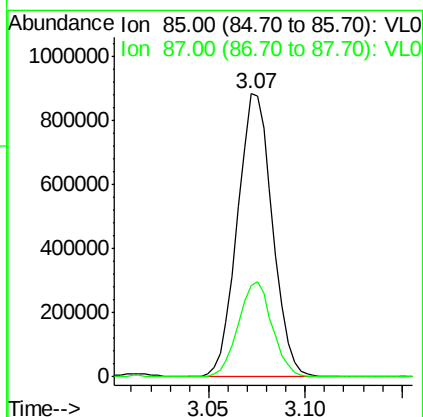
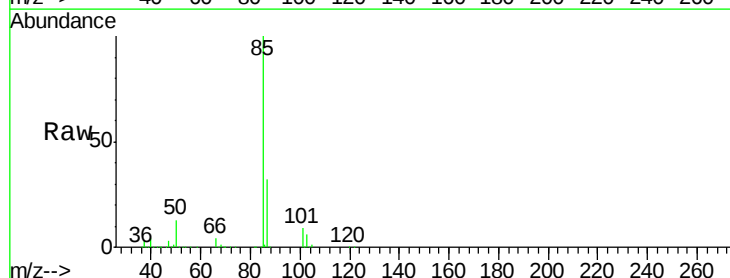
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 803000
Ion Ratio Lower Upper
49 100
128 47.8 24.0 72.0
130 61.9 31.2 93.6



#2
Dichlorodifluoromethane
Concen: 9.461 ppbv
RT: 3.07 min Scan# 42
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion: 85 Resp: 1107988
Ion Ratio Lower Upper
85 100
87 32.3 26.7 40.1





#3

Chlorodifluoromethane

Concen: 9.600 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

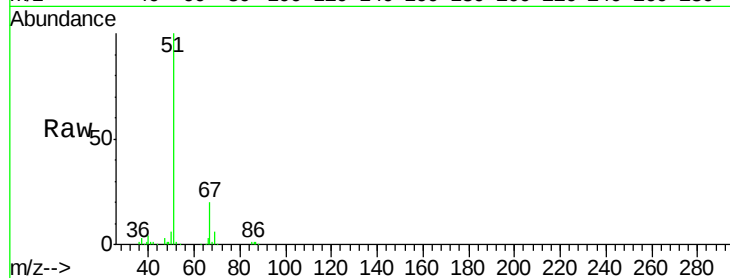
ClientSampleId :

Tot Ion: 51 Resp: 887512

Ion Ratio Lower Upper

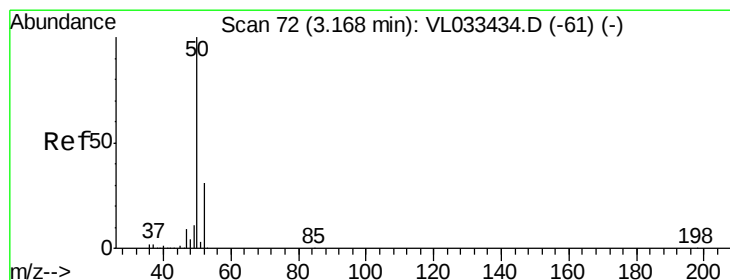
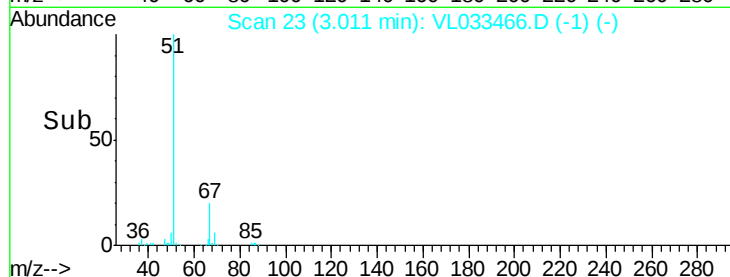
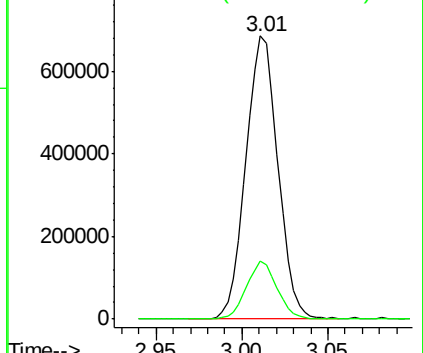
51 100

67 19.5 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.783 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033466.D

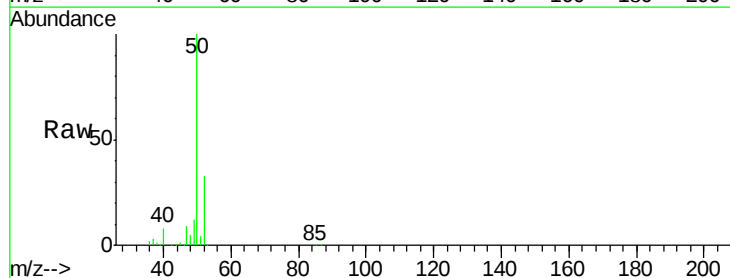
Acq: 27 Mar 2019 13:29

Tgt Ion: 50 Resp: 478575

Ion Ratio Lower Upper

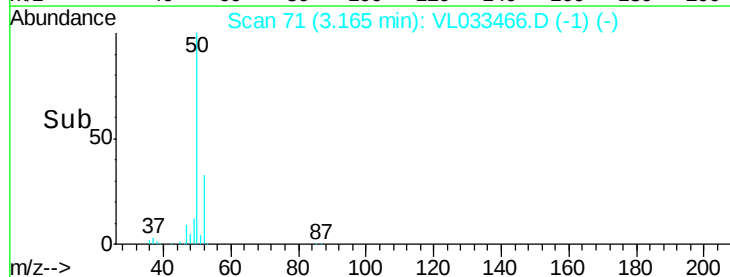
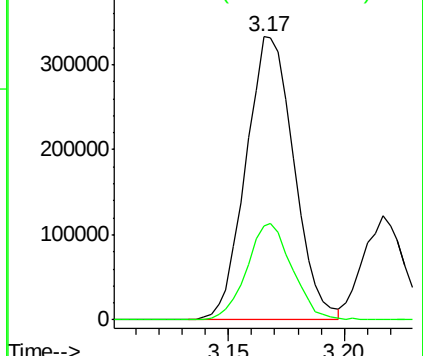
50 100

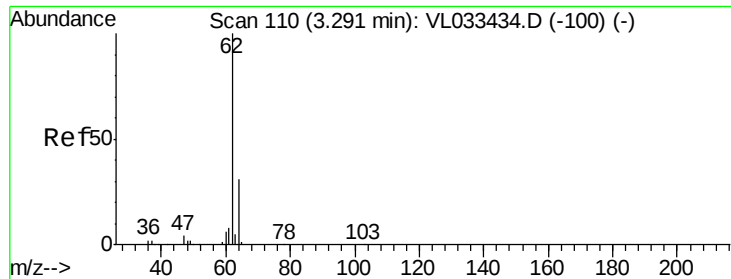
52 33.1 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.897 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

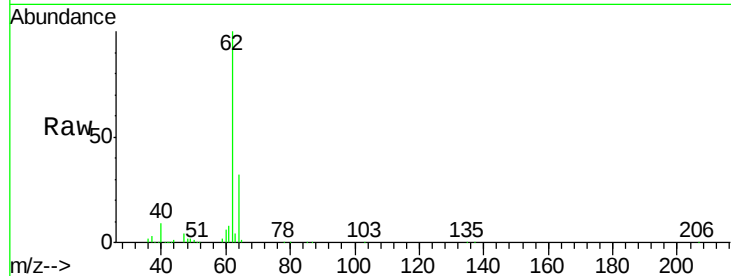
ClientSampleId :

Tot Ion: 62 Resp: 475677

Ion Ratio Lower Upper

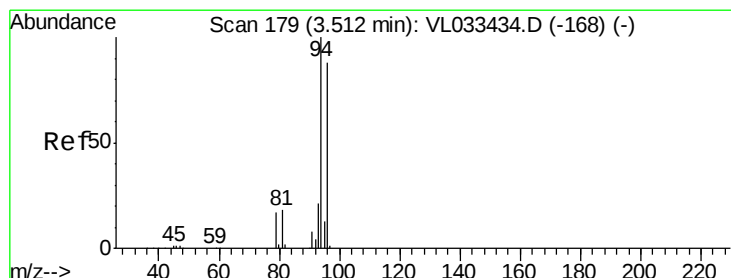
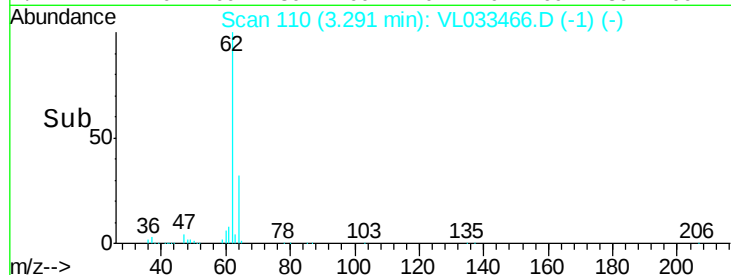
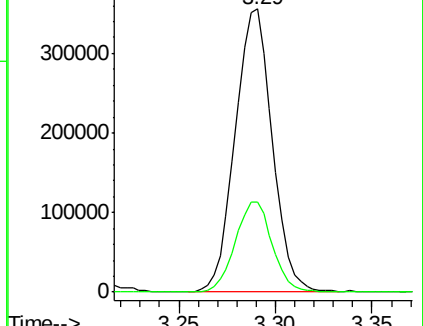
62 100

64 31.7 24.9 37.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.943 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033466.D

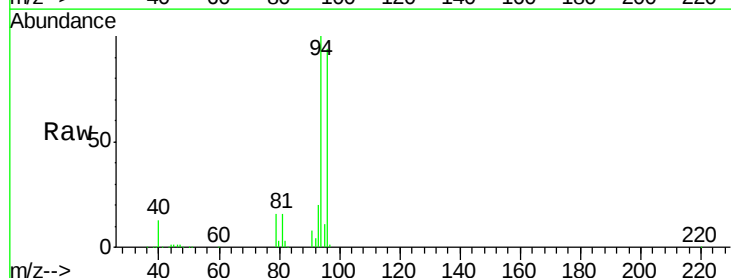
Acq: 27 Mar 2019 13:29

Tgt Ion: 94 Resp: 307133

Ion Ratio Lower Upper

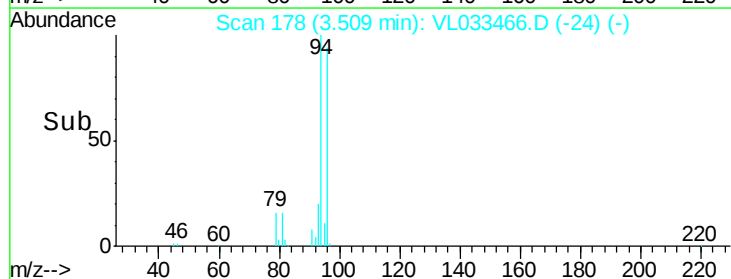
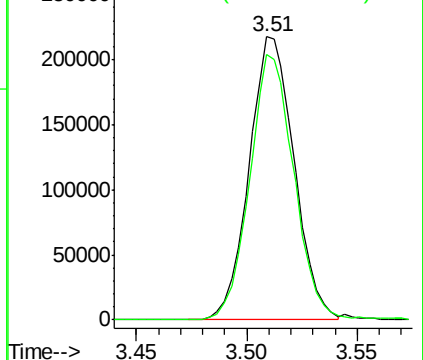
94 100

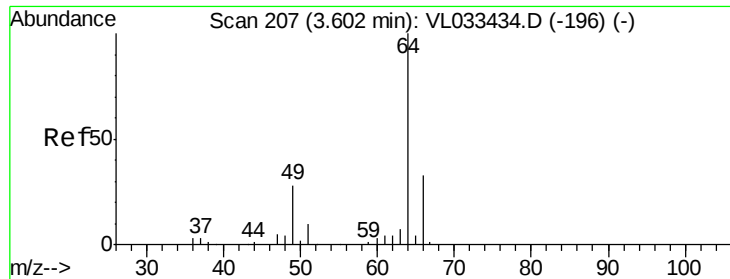
96 93.8 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.006 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

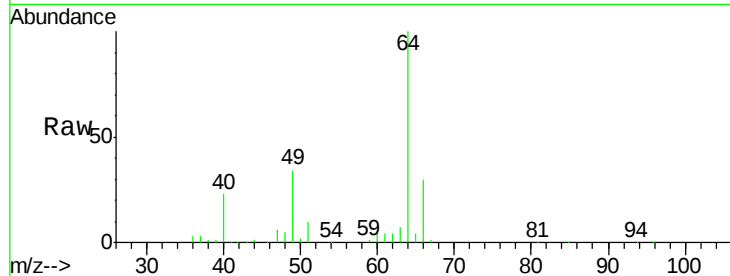
ClientSampleId :

Tot Ion: 64 Resp: 178999

Ion Ratio Lower Upper

64 100

66 29.8 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

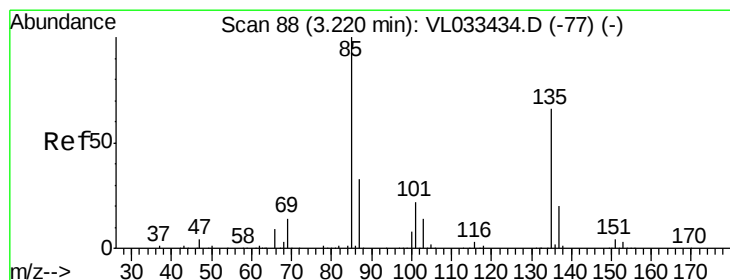
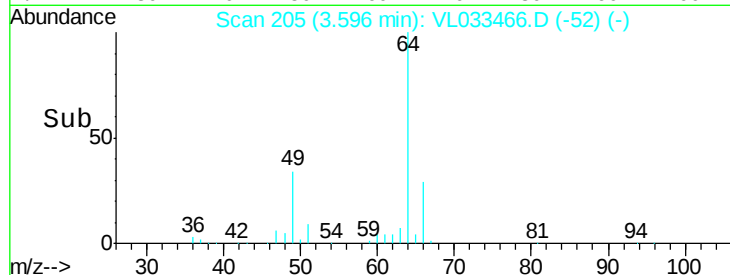
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.721 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033466.D

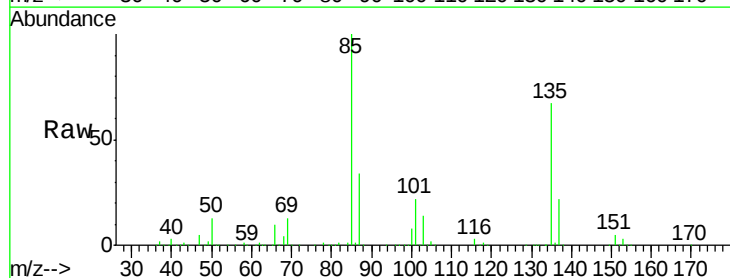
Acq: 27 Mar 2019 13:29

Tgt Ion: 85 Resp: 1213049

Ion Ratio Lower Upper

85 100

135 67.1 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

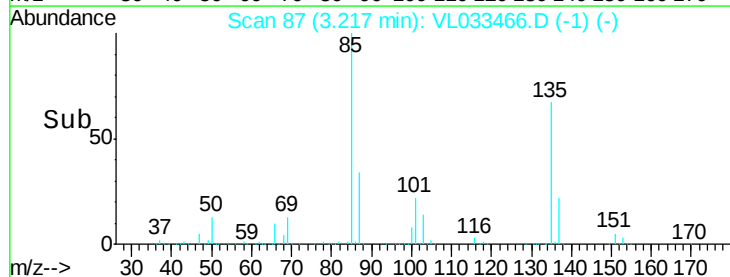
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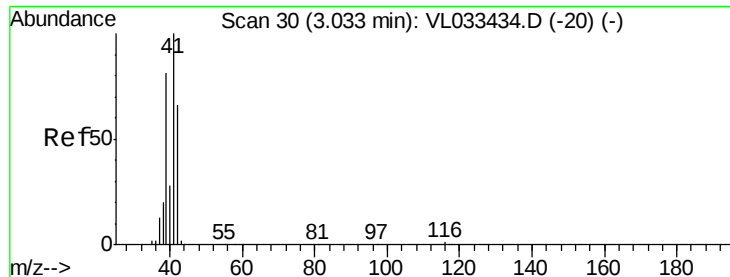
400000

200000

0

Time-->





#9

Propene

Concen: 9.620 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

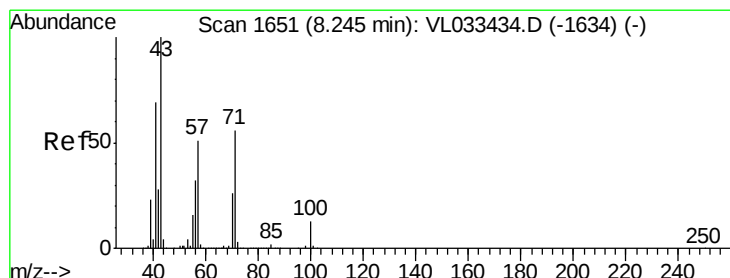
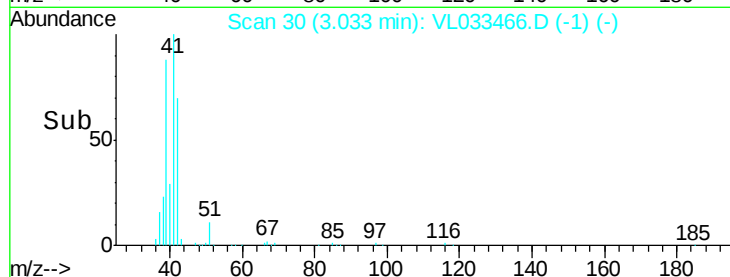
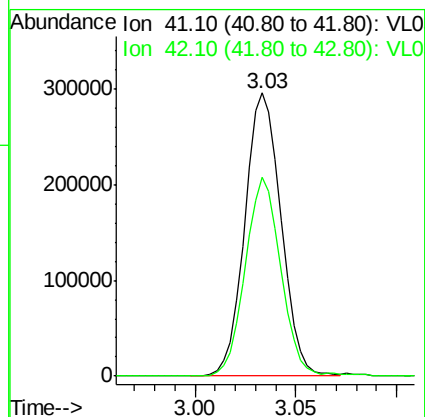
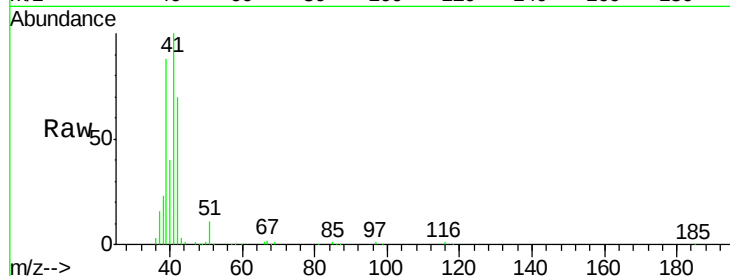
ClientSampleId :

Tot Ion: 41 Resp: 373479

Ion Ratio Lower Upper

41 100

42 69.4 53.9 80.9



#10

Heptane

Concen: 10.608 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033466.D

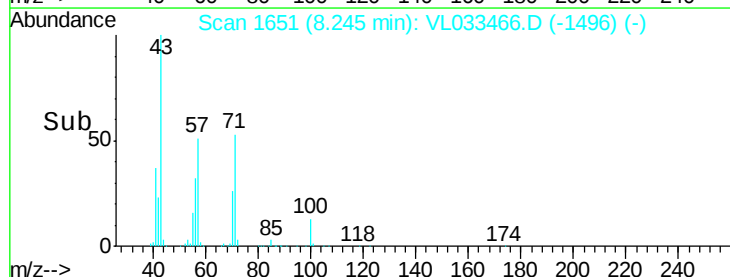
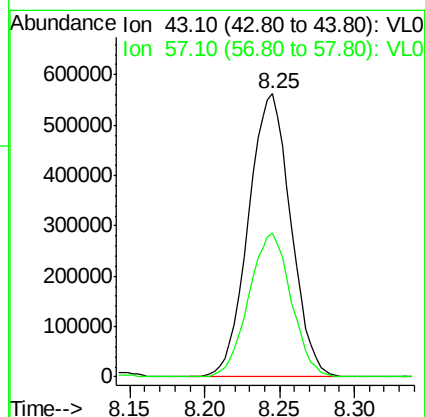
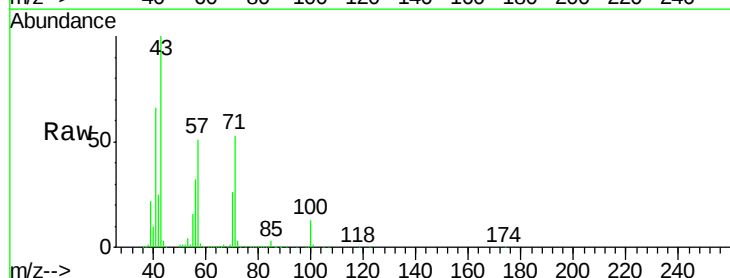
Acq: 27 Mar 2019 13:29

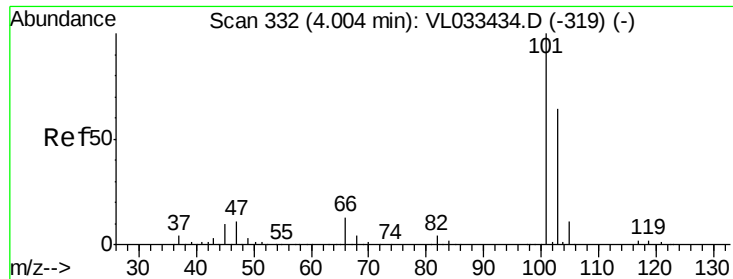
Tgt Ion: 43 Resp: 1100897

Ion Ratio Lower Upper

43 100

57 51.1 40.6 60.8

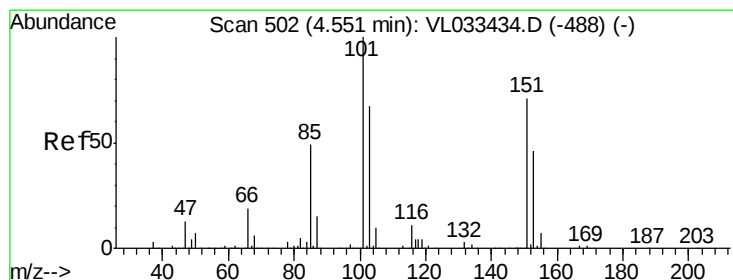
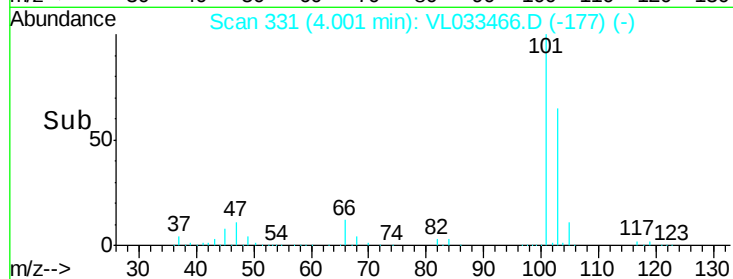
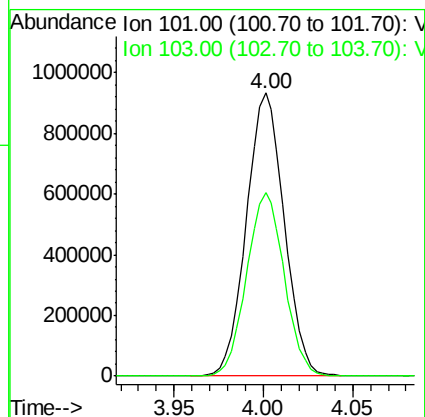
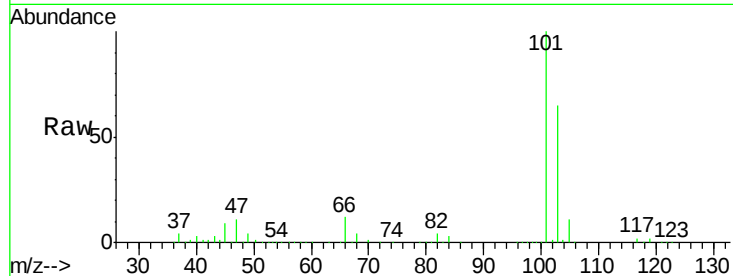




#11
 Trichlorofluoromethane
 Concen: 9.598 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

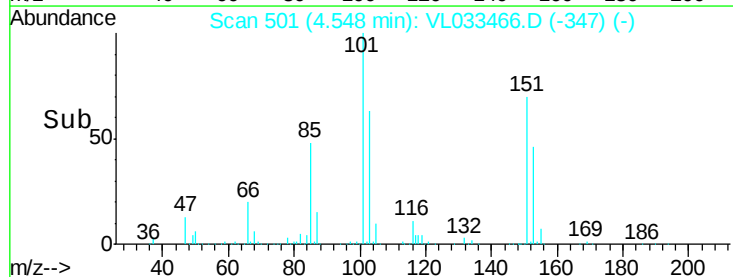
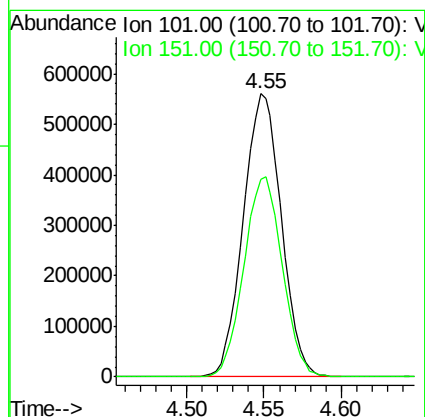
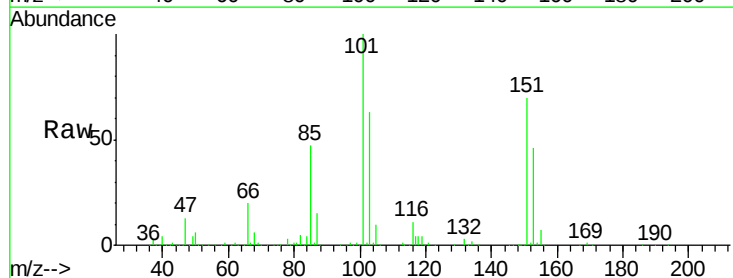
Instrument :
 MSVOA_L
 ClientSampleId :

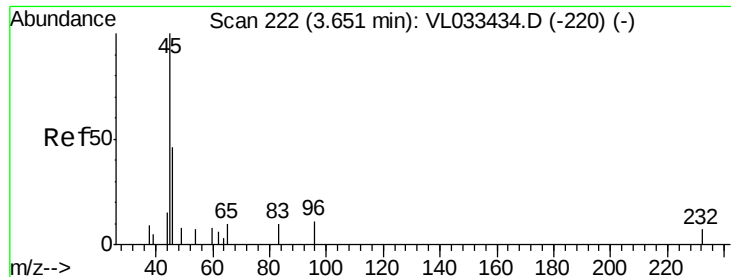
Tot Ion:101 Resp: 1385283
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.923 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion:101 Resp: 962003
 Ion Ratio Lower Upper
 101 100
 151 71.4 57.7 86.5

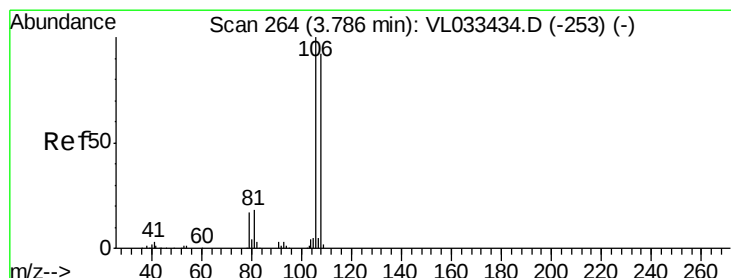
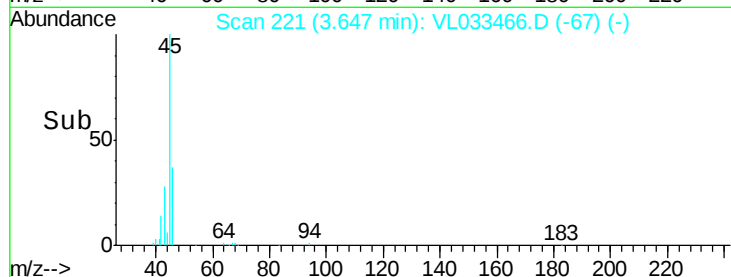
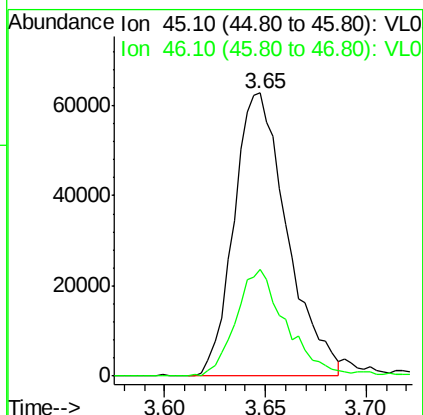
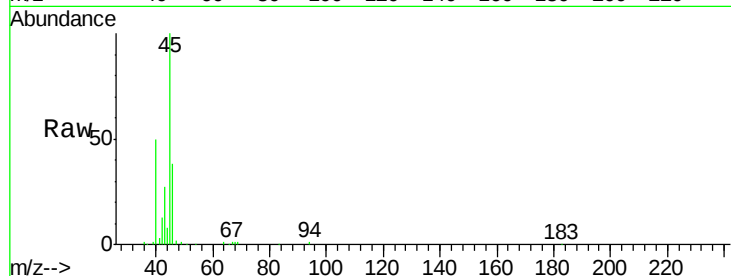




#13
Ethanol
Concen: 11.506 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

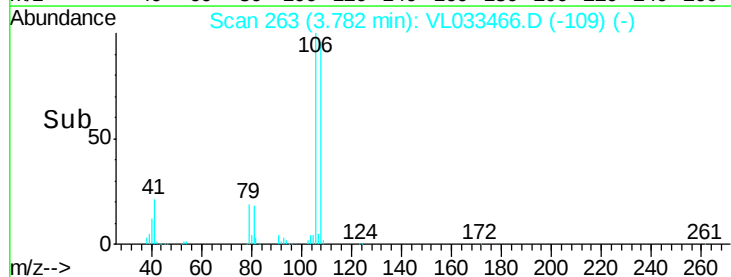
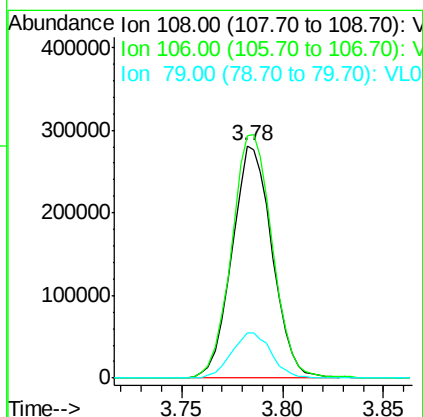
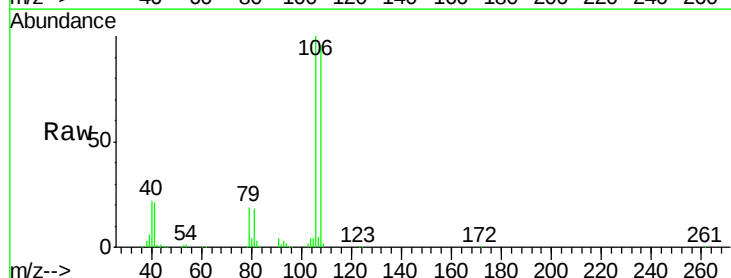
Instrument :
MSVOA_L
ClientSampleId :

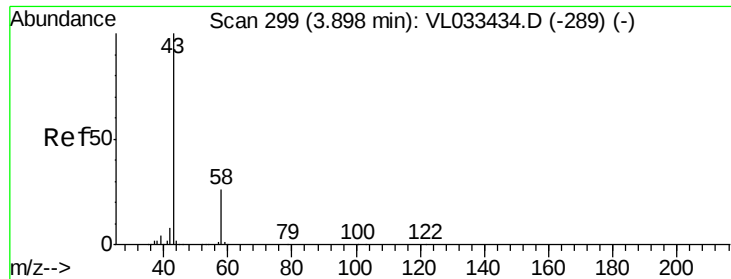
Tot Ion: 45 Resp: 115595
Ion Ratio Lower Upper
45 100
46 36.3 25.4 101.8



#14
Bromoethene
Concen: 10.144 ppbv
RT: 3.78 min Scan# 263
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion: 108 Resp: 392222
Ion Ratio Lower Upper
108 100
106 107.1 86.4 129.6
79 19.5 15.8 23.8





#15

Acetone

Concen: 8.920 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

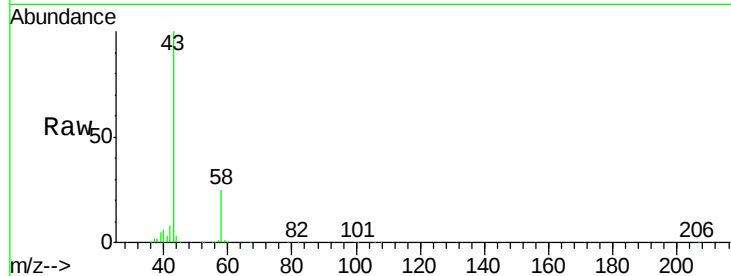
ClientSampled :

Tot Ion: 43 Resp: 861278

Ion Ratio Lower Upper

43 100

58 25.7 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

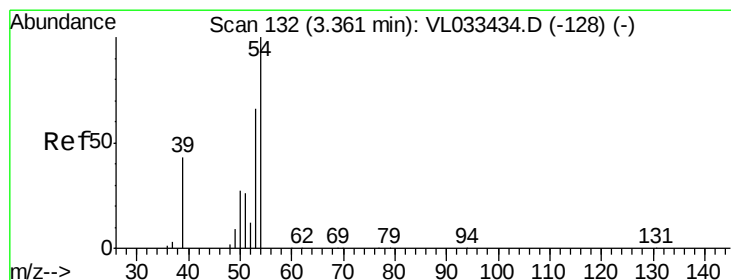
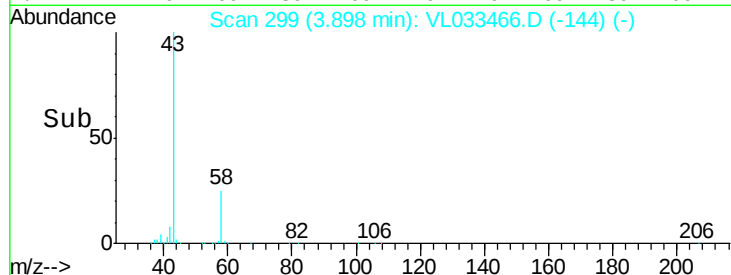
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 10.429 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033466.D

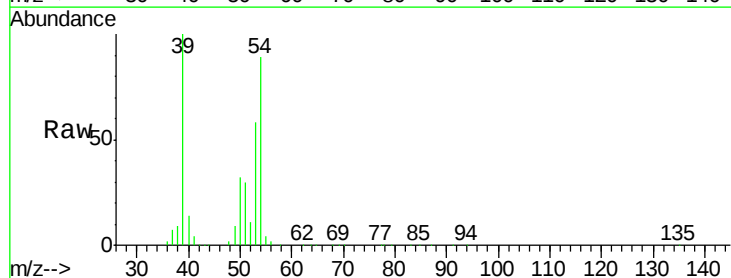
Acq: 27 Mar 2019 13:29

Tgt Ion: 39 Resp: 399384

Ion Ratio Lower Upper

39 100

54 95.9 69.4 104.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.36

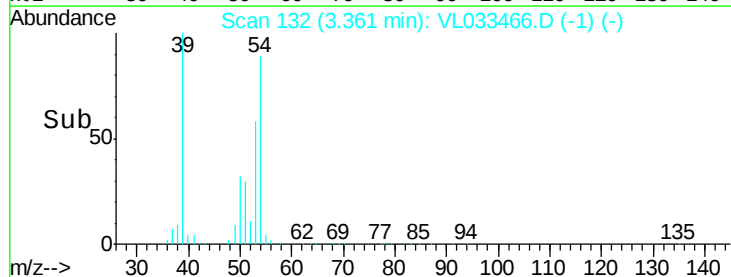
300000

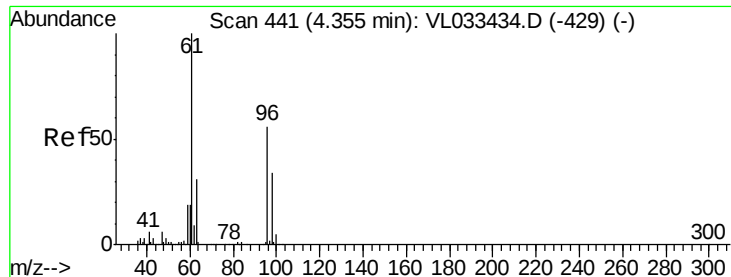
200000

100000

0

Time-->





#17

tert-Butyl alcohol

Concen: 10.746 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

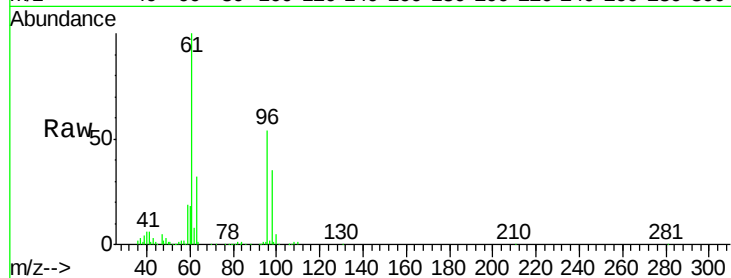
ClientSampleId :

Tot Ion: 59 Resp: 190774

Ion Ratio Lower Upper

59 100

57 9.0 7.8 11.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.35

100000

80000

60000

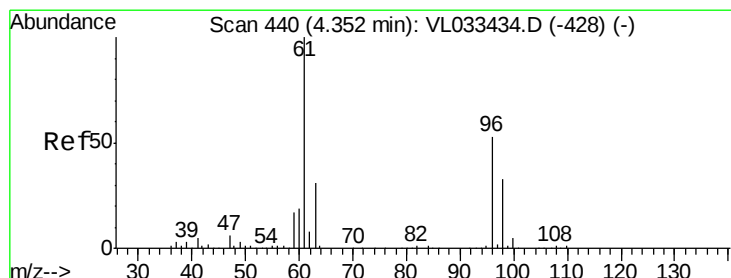
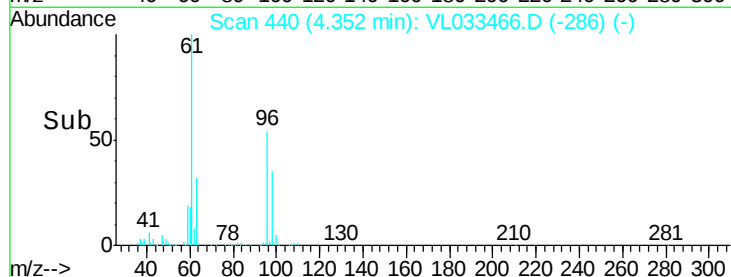
40000

20000

0

Time-->

4.30 4.35 4.40 4.45



#18

1,1-Dichloroethene

Concen: 10.040 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

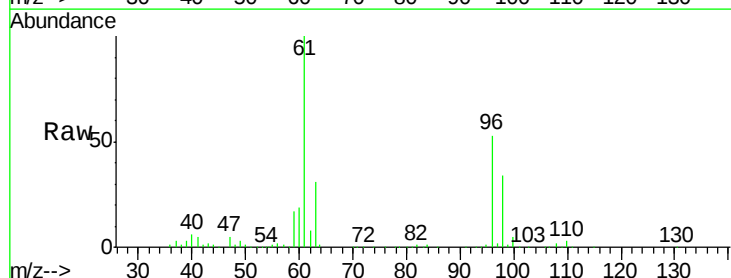
Tgt Ion: 96 Resp: 418086

Ion Ratio Lower Upper

96 100

61 190.5 149.8 224.6

98 65.5 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

600000

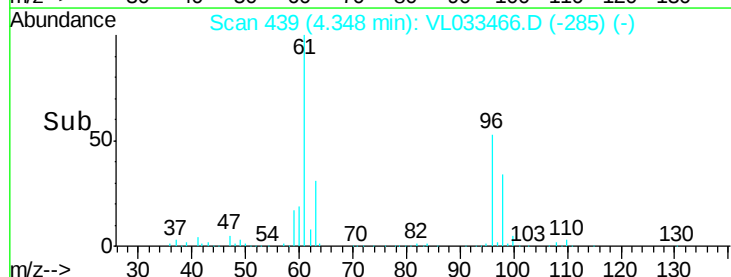
400000

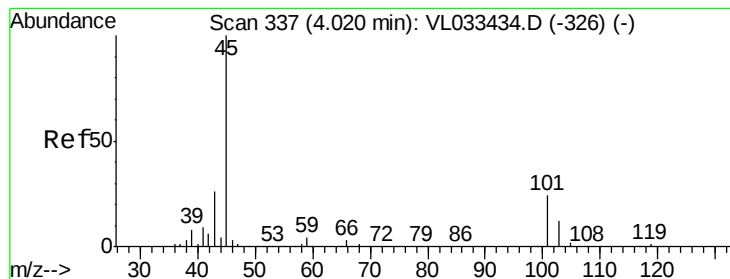
200000

0

Time-->

4.30 4.35 4.40





#19

Isopropyl Alcohol

Concen: 11.034 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

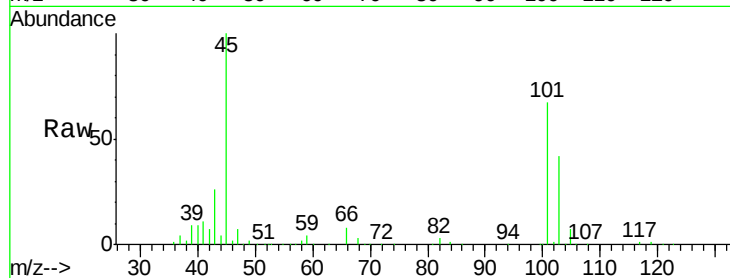
ClientSampleId :

Tot Ion: 45 Resp: 673851

Ion Ratio Lower Upper

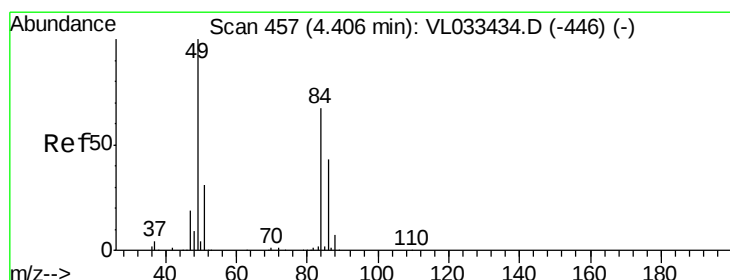
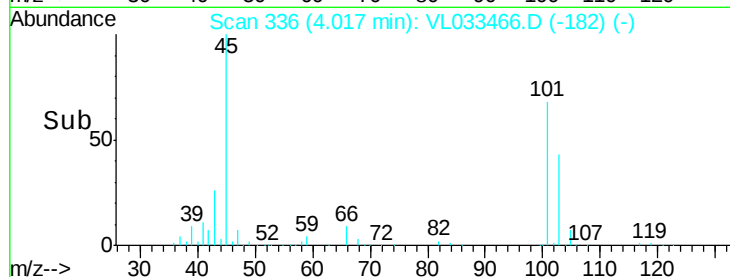
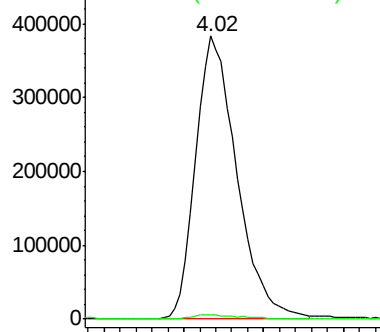
45 100

58 2.1 1.4 2.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.901 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion: 84 Resp: 364796

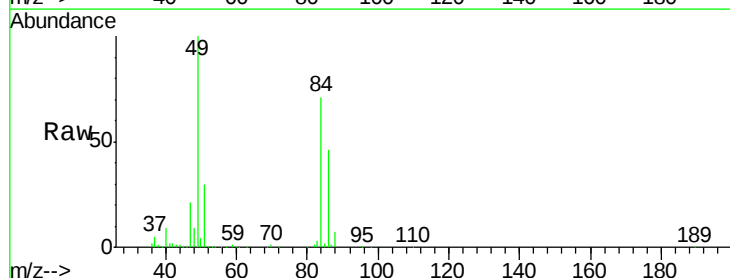
Ion Ratio Lower Upper

84 100

49 140.2 120.0 180.0

51 41.5 36.7 55.1

86 65.0 51.9 77.9

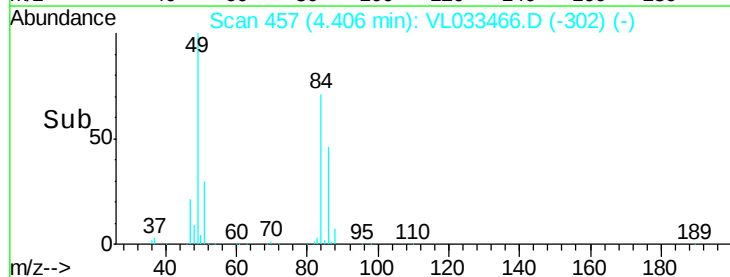
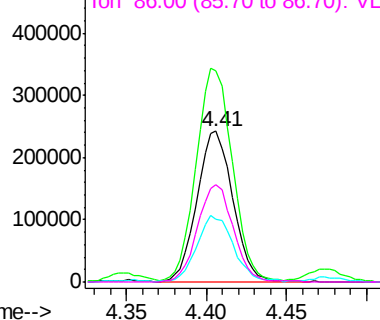


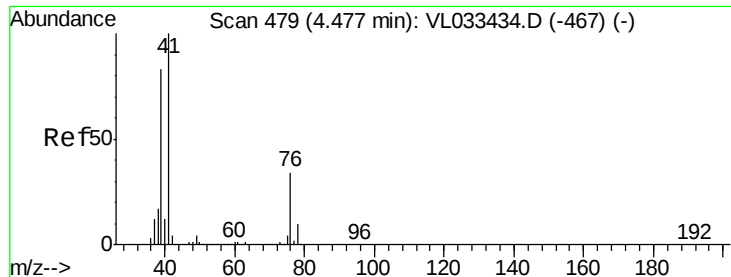
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

Allvl Chloride

Concen: 10.169 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampled :

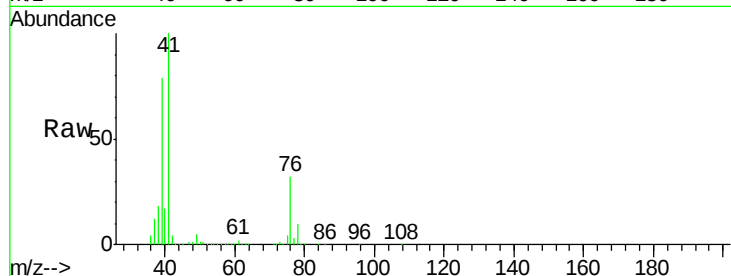
Tot Ion: 41 Resp: 620655

Ion Ratio Lower Upper

41 100

76 32.0 25.4 38.2

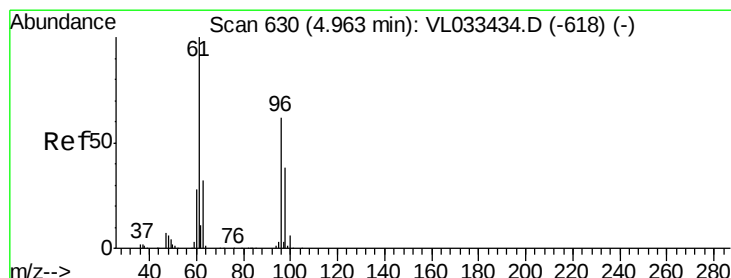
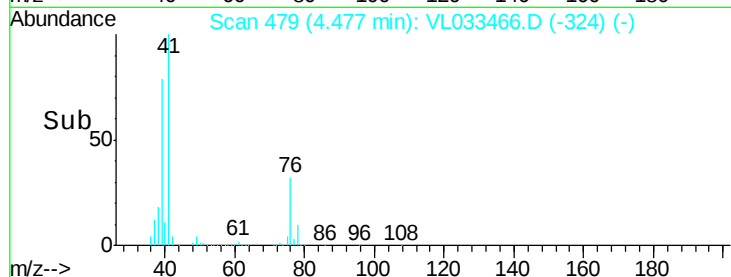
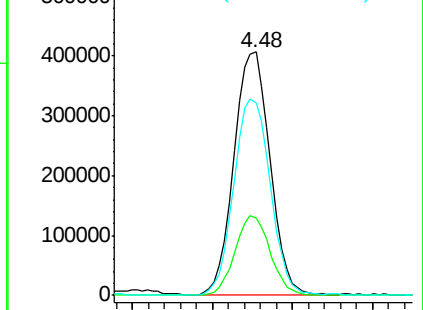
39 82.6 65.3 97.9



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: 9.936 ppbv

RT: 4.96 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

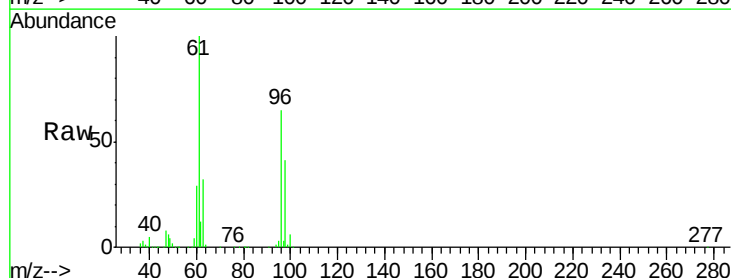
Tgt Ion: 96 Resp: 431700

Ion Ratio Lower Upper

96 100

61 154.2 128.9 193.3

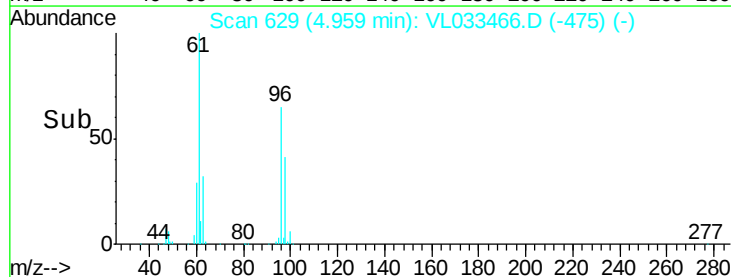
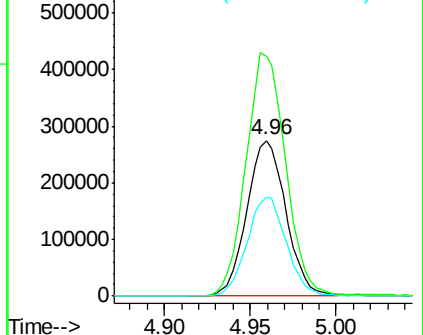
98 63.4 49.5 74.3

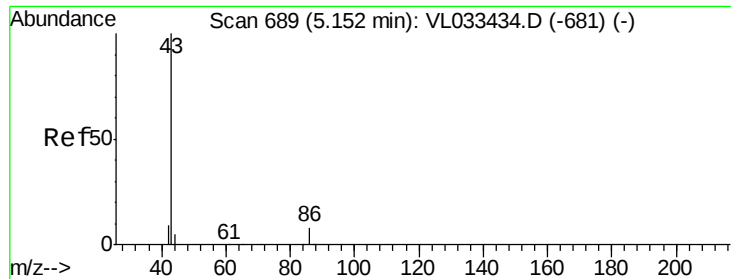


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.252 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 1408909

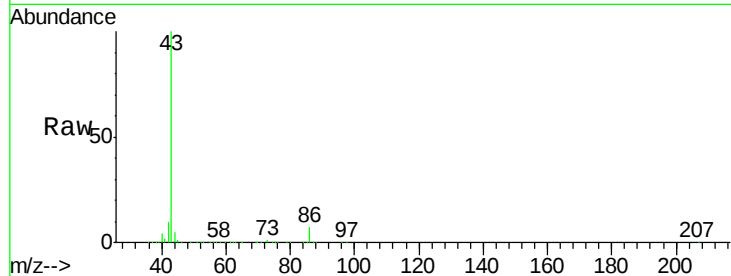
Ion Ratio Lower Upper

43 100

86 7.3 5.6 8.4

42 10.4 8.0 12.0

44 5.0 3.9 5.9

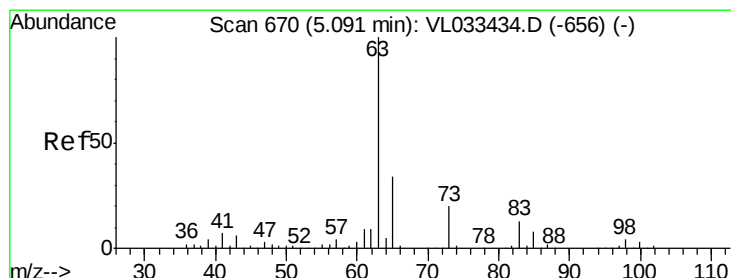
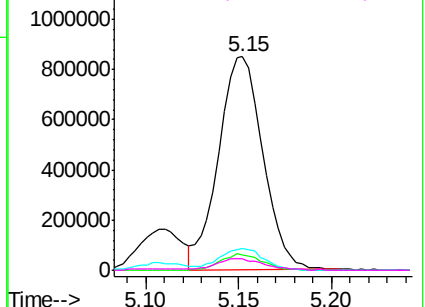
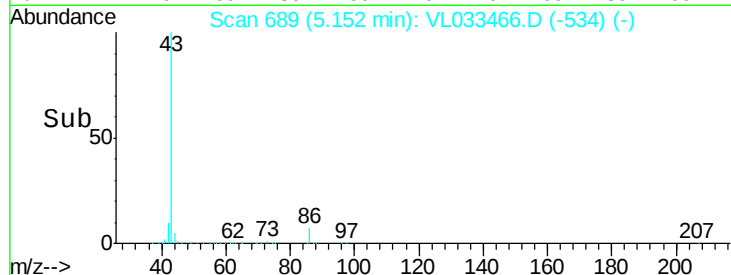


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.563 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

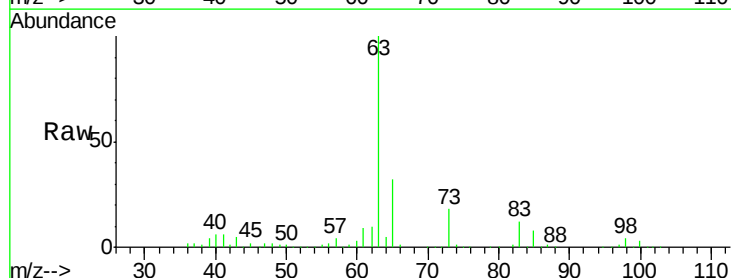
Tgt Ion: 63 Resp: 998256

Ion Ratio Lower Upper

63 100

98 4.1 2.2 6.6

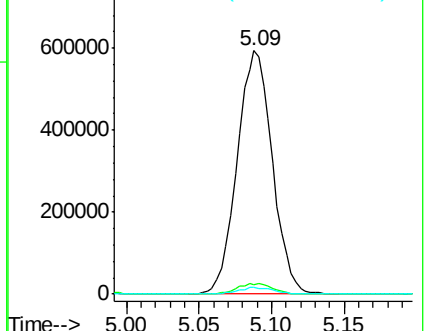
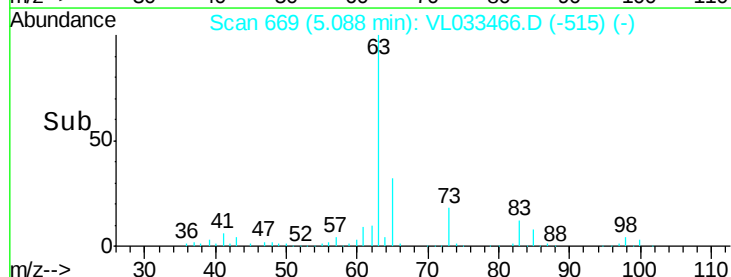
100 2.8 1.5 4.4

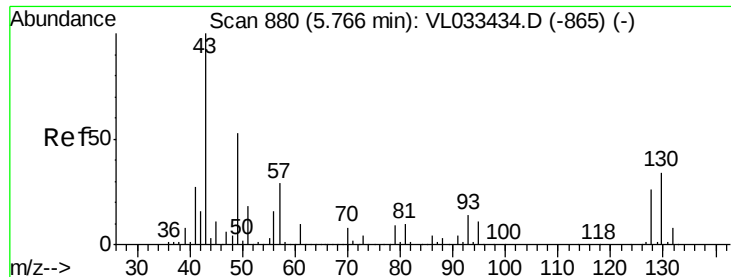


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.746 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 1745883

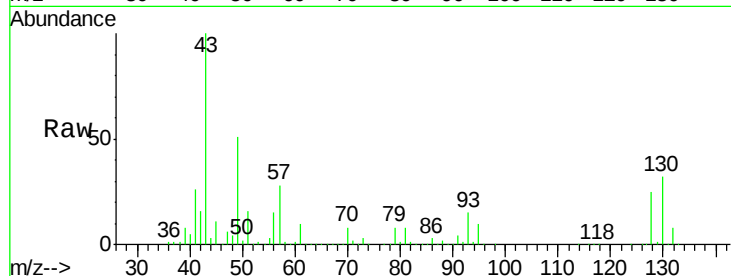
Ion Ratio Lower Upper

43 100

45 9.9 7.8 11.6

61 8.9 7.3 10.9

70 7.0 5.6 8.4

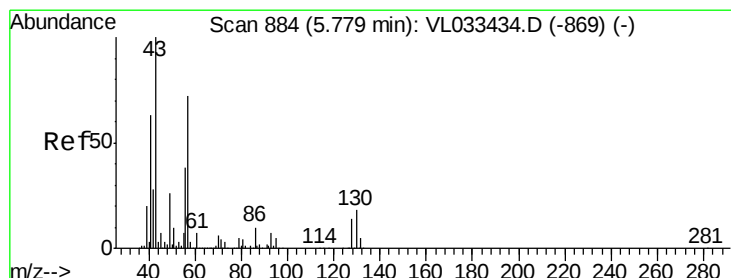
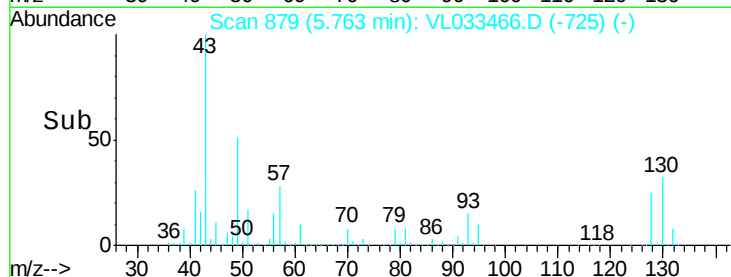
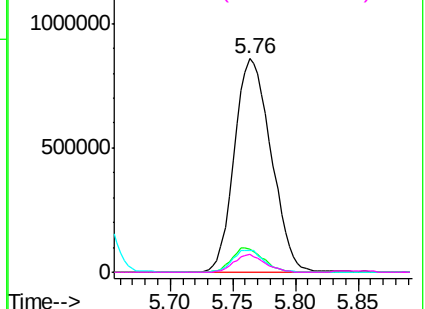


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.752 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion: 57 Resp: 776762

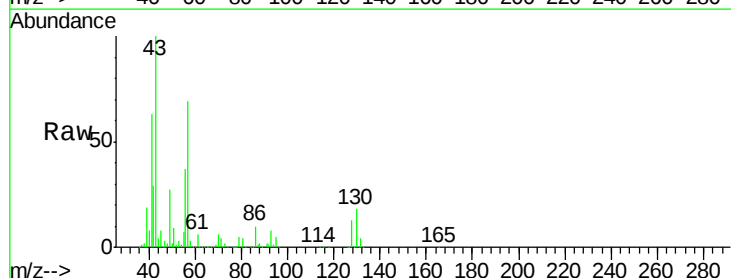
Ion Ratio Lower Upper

57 100

41 88.8 70.7 106.1

43 225.7 182.6 274.0

56 53.5 42.0 63.0

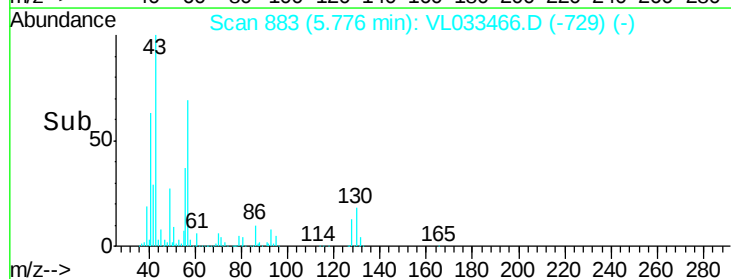
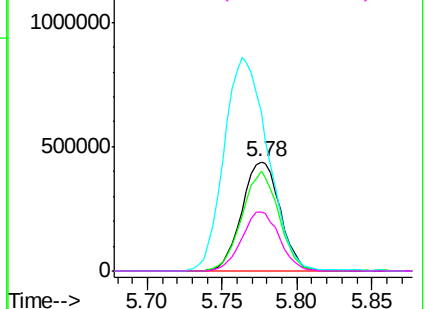


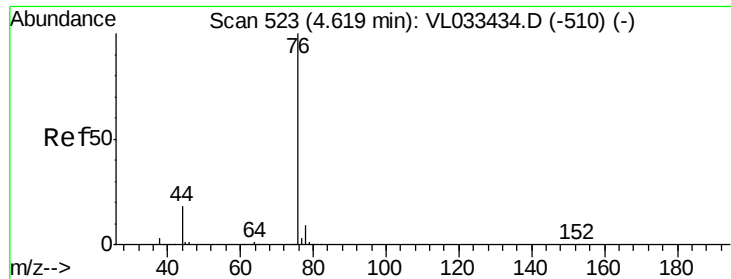
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 11.028 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampled :

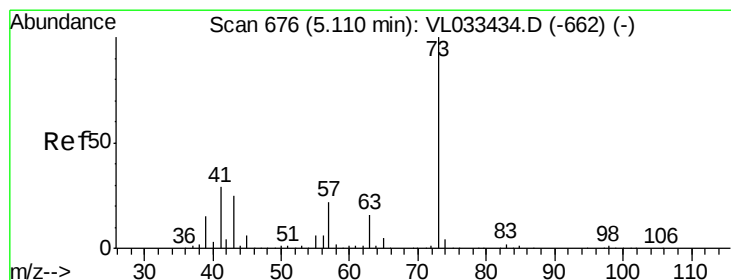
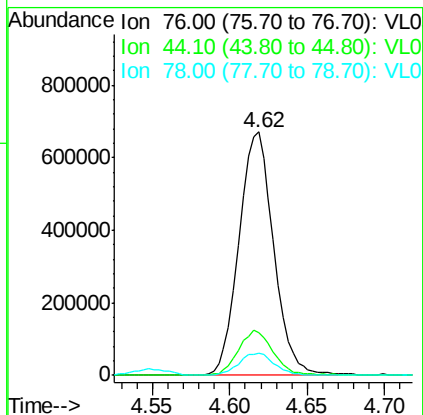
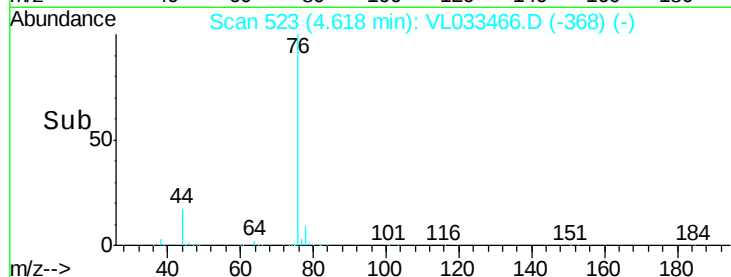
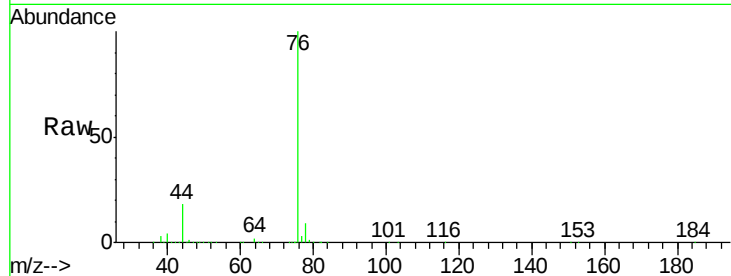
Tot Ion: 76 Resp: 1044552

Ion Ratio Lower Upper

76 100

44 18.5 14.8 22.2

78 9.3 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 10.049 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033466.D

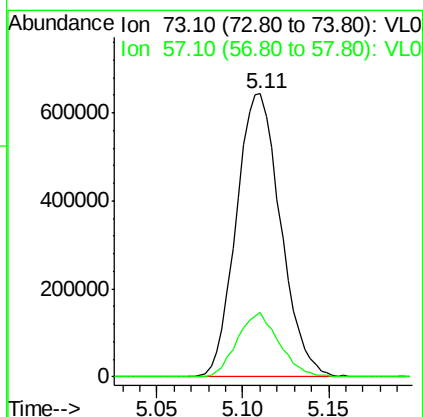
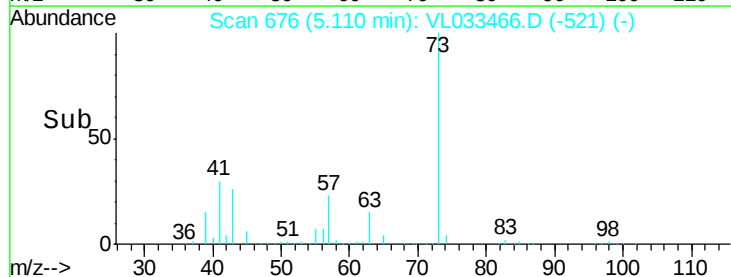
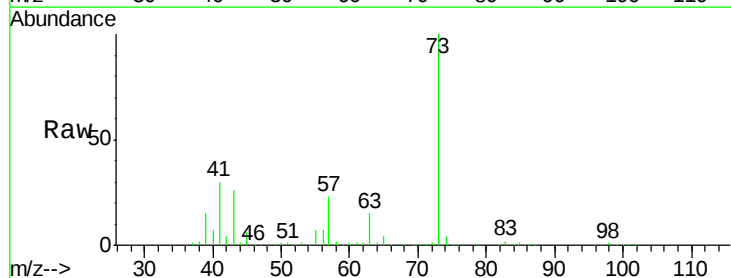
Acq: 27 Mar 2019 13:29

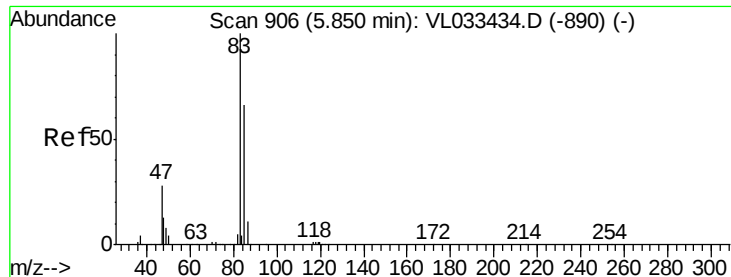
Tgt Ion: 73 Resp: 1152887

Ion Ratio Lower Upper

73 100

57 21.6 17.4 26.2





#29

Chloroform

Concen: 9.604 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

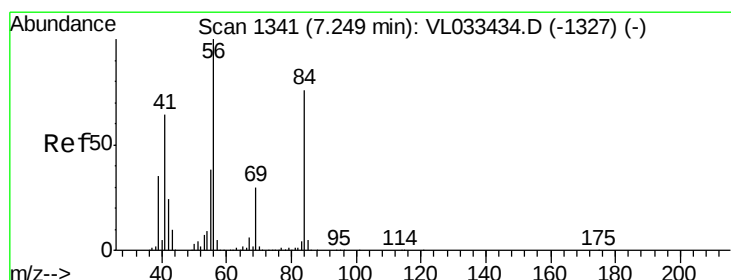
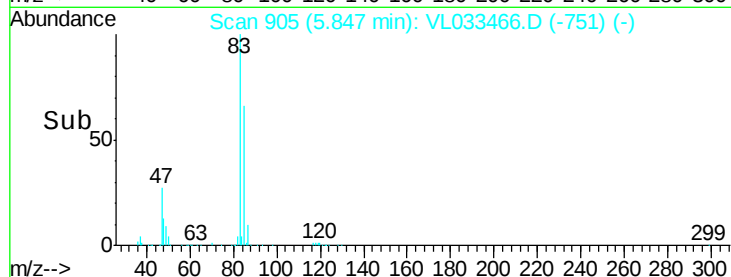
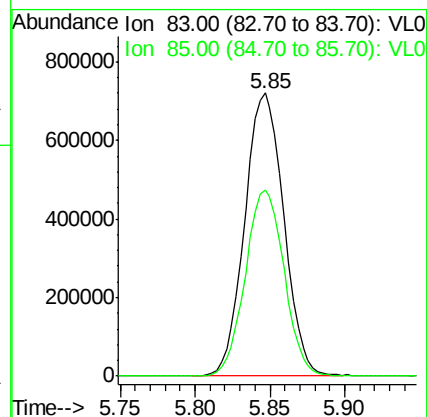
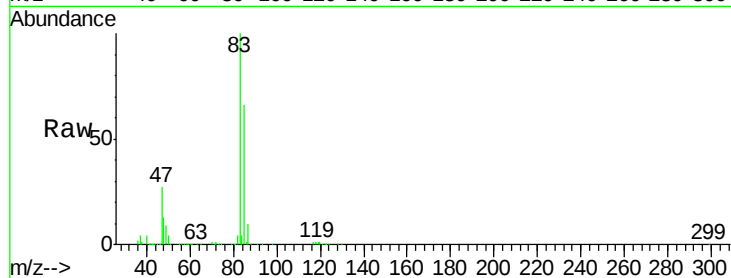
ClientSampleId :

Tot Ion: 83 Resp: 1311276

Ion Ratio Lower Upper

83 100

85 65.6 52.6 79.0



#30

Cyclohexane

Concen: 10.531 ppbv

RT: 7.24 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

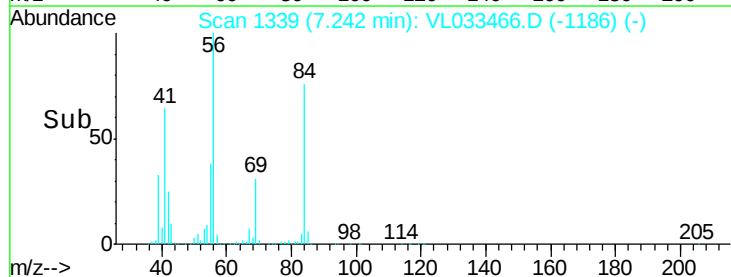
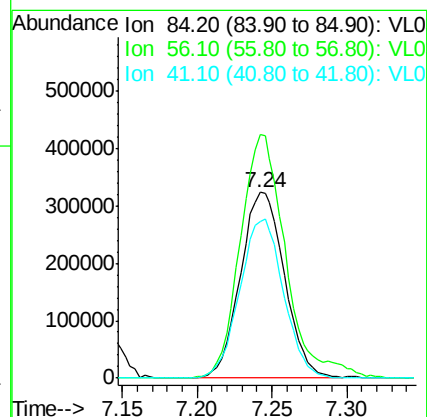
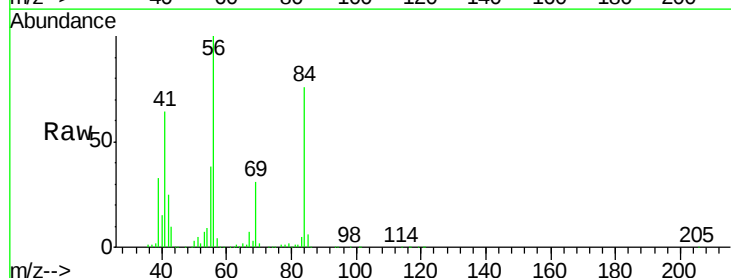
Tgt Ion: 84 Resp: 663560

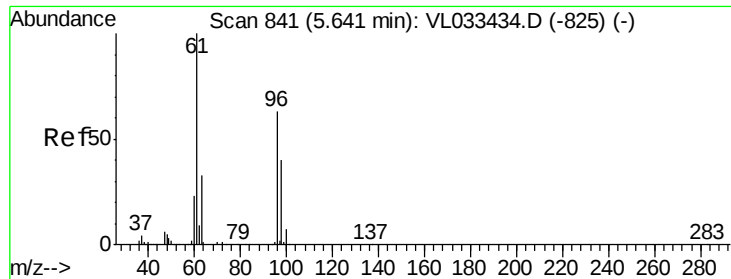
Ion Ratio Lower Upper

84 100

56 135.5 109.7 164.5

41 85.2 68.2 102.2



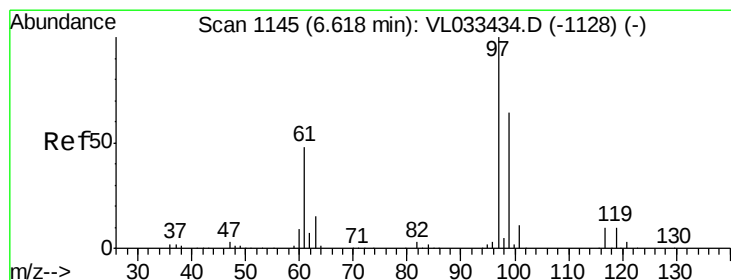
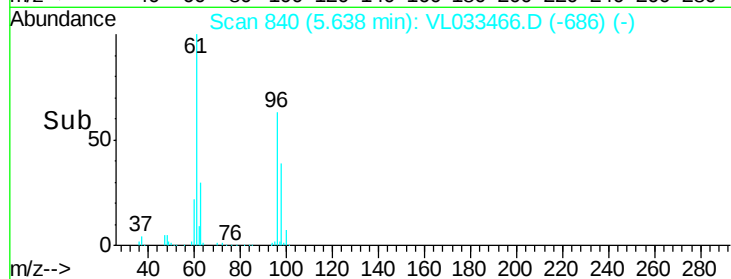
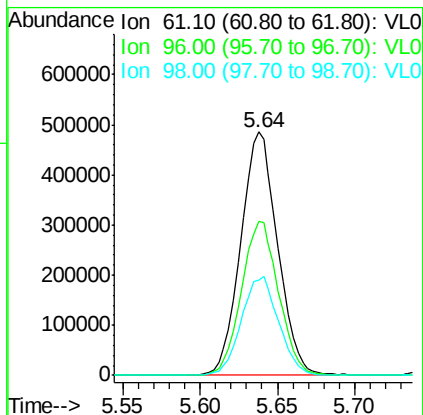
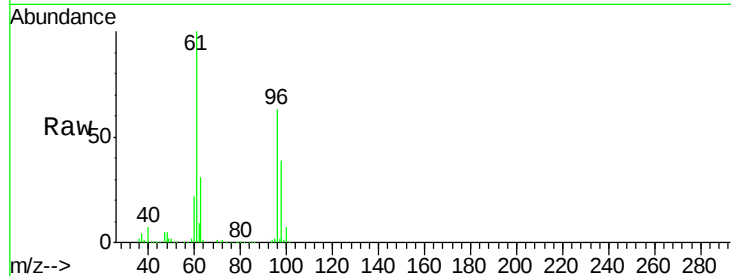


#31

cis-1,2-Dichloroethene
 Concen: 10.139 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :

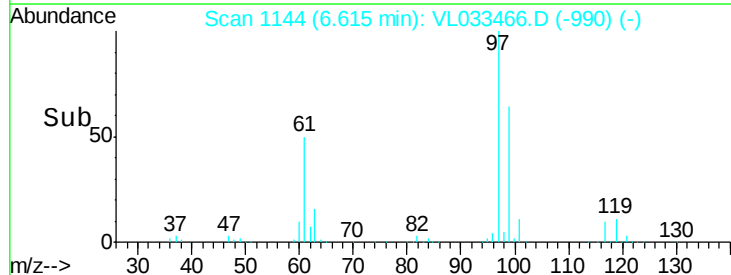
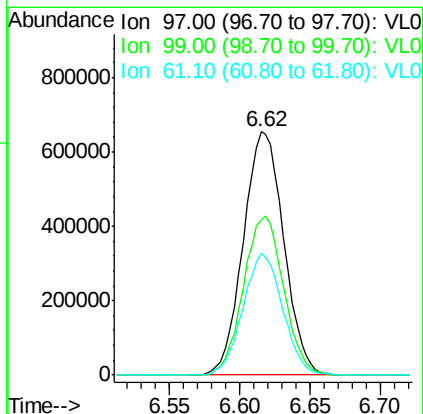
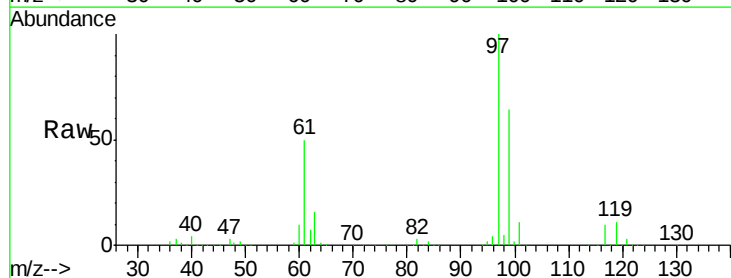
Tot Ion	61	Resp	802918
Ion	Ratio	Lower	Upper
61	100		
96	63.4	50.6	76.0
98	39.2	32.2	48.2

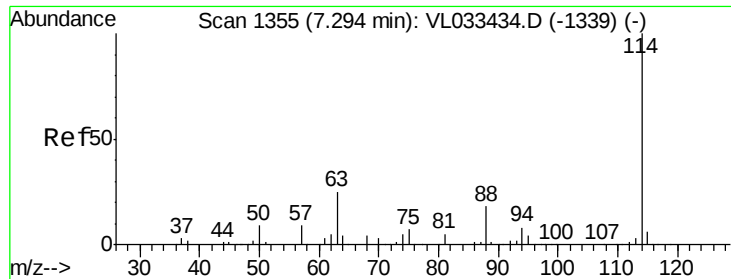


#32

1,1,1-Trichloroethane
 Concen: 10.140 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion	97	Resp	1318412
Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.5	77.3
61	49.2	38.8	58.2

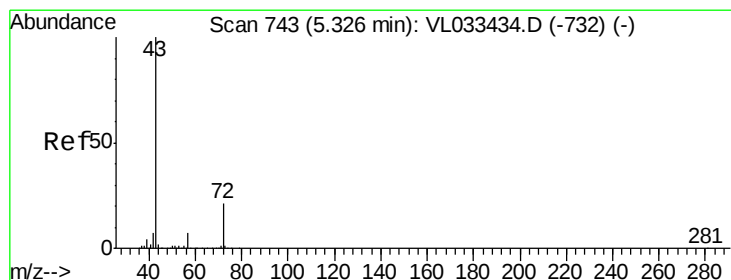
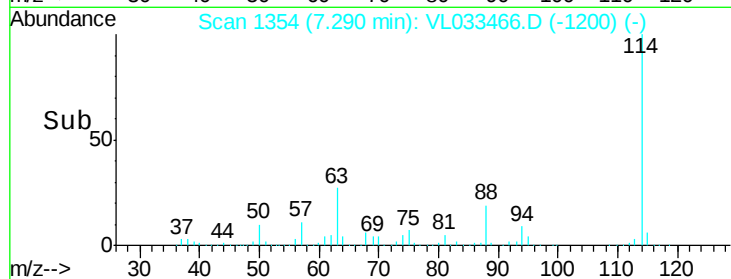
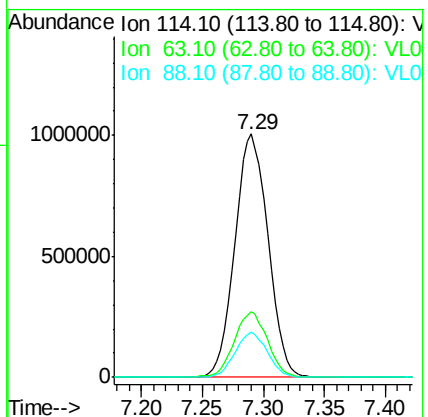
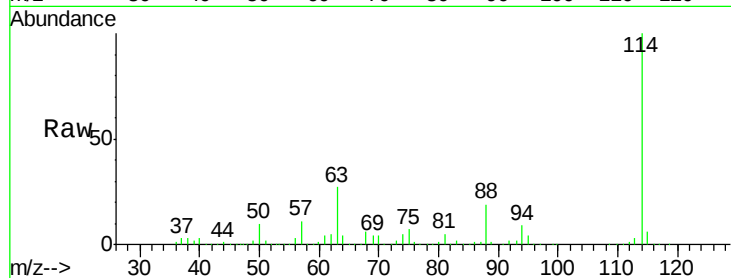




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

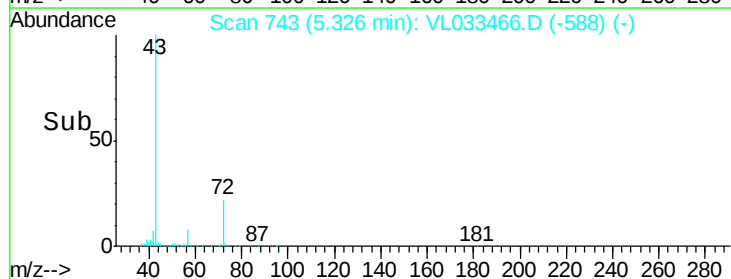
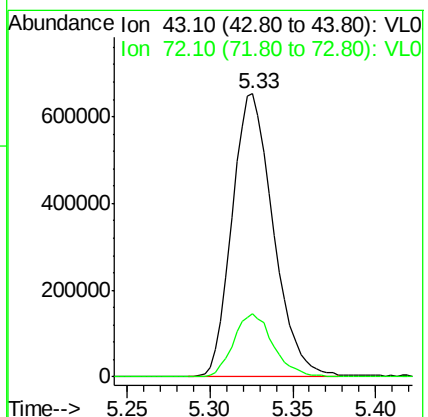
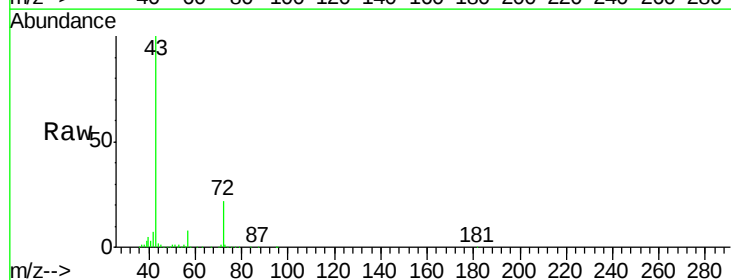
Instrument :
 MSVOA_L
 ClientSampleId :

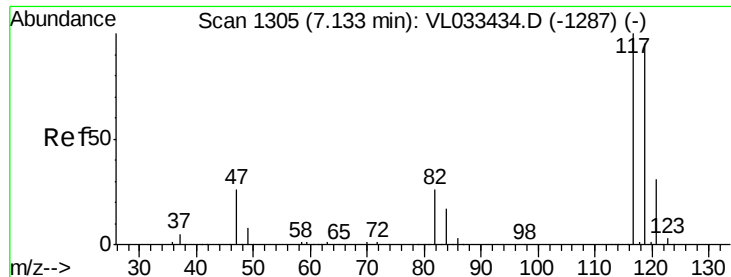
Tot Ion:114 Resp: 1890747
 Ion Ratio Lower Upper
 114 100
 63 27.2 21.5 32.3
 88 18.1 14.5 21.7



#34
 2-Butanone
 Concen: 9.900 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion: 43 Resp: 1124606
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.4 26.2





#35

Carbon Tetrachloride

Concen: 10.614 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

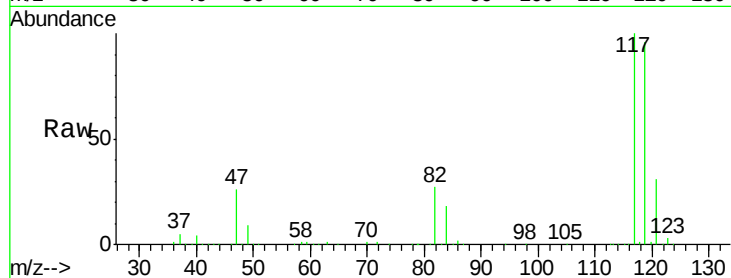
Tot Ion:117 Resp: 1421449

Ion Ratio Lower Upper

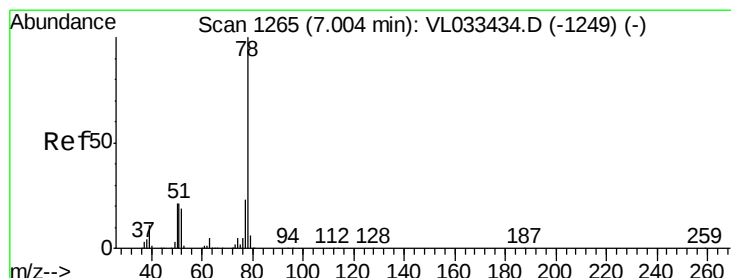
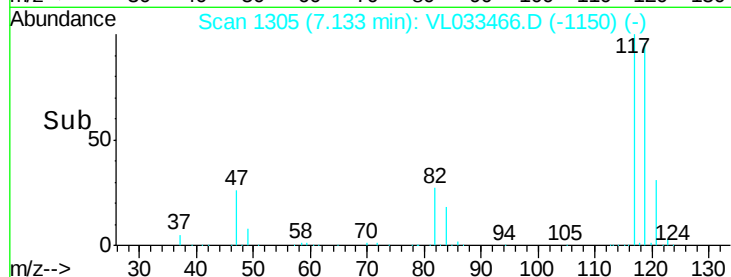
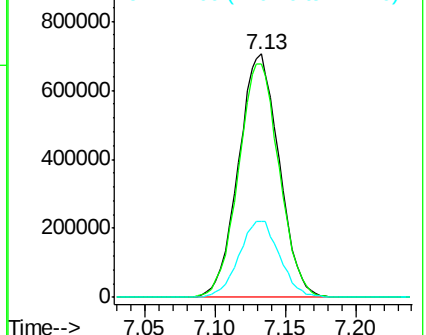
117 100

119 96.0 75.8 113.8

121 31.0 24.7 37.1



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: 10.248 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

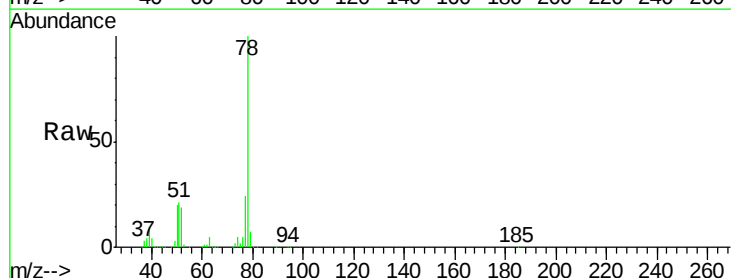
Tgt Ion: 78 Resp: 1625803

Ion Ratio Lower Upper

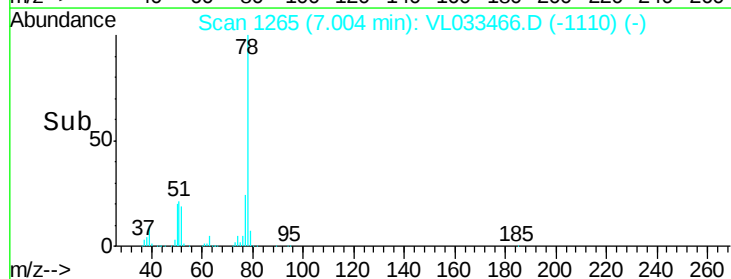
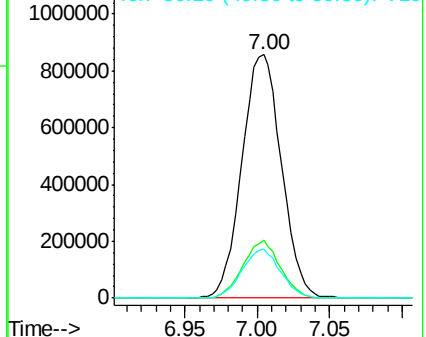
78 100

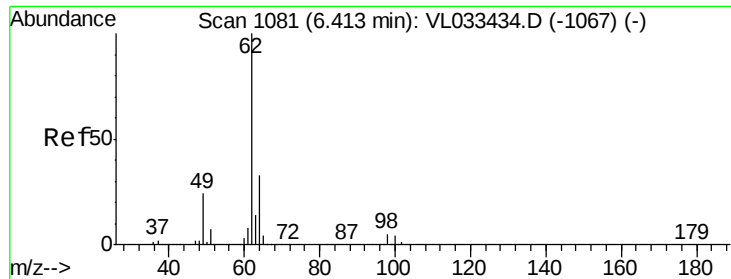
77 23.7 18.1 27.1

50 20.4 16.7 25.1



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

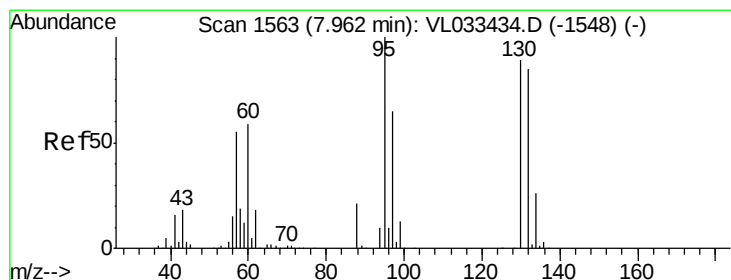
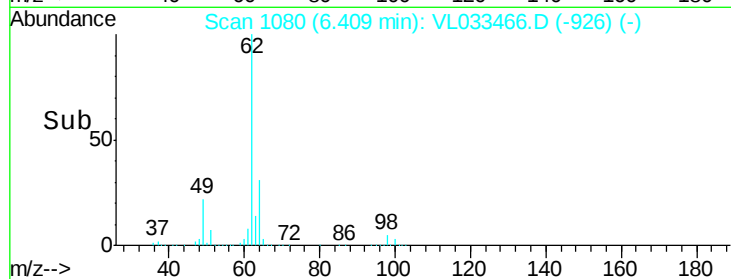
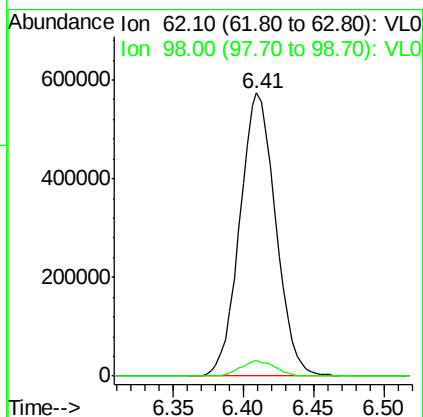
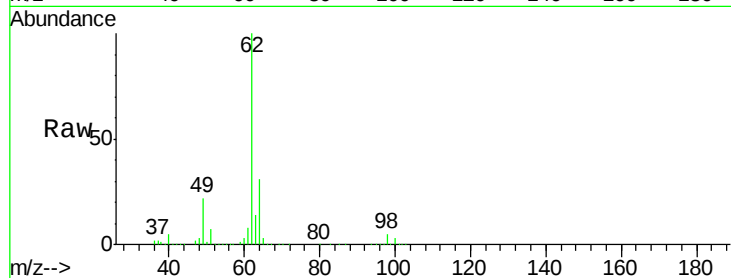




#37
 1,2-Dichloroethane
 Concen: 9.623 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

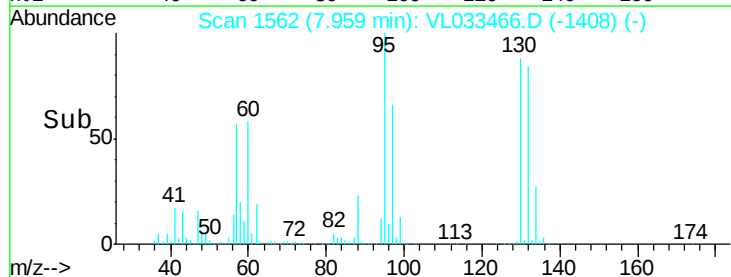
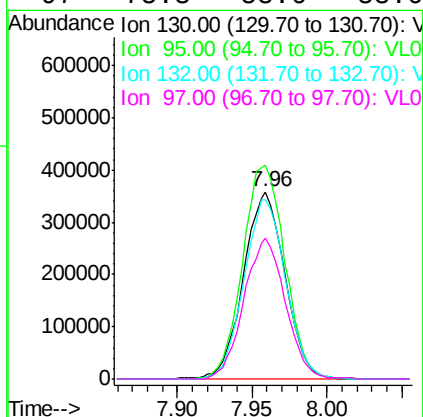
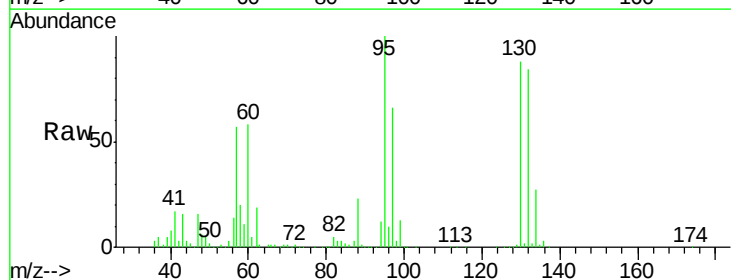
Instrument :
 MSVOA_L
 ClientSampleId :

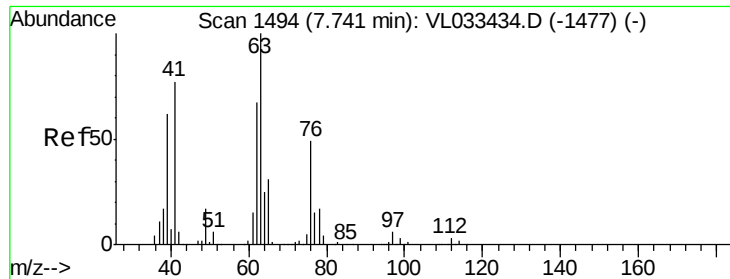
Tot Ion: 62 Resp: 1023262
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.4 6.6



#38
 Trichloroethene
 Concen: 11.540 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion:130 Resp: 689000
 Ion Ratio Lower Upper
 130 100
 95 113.9 89.8 134.8
 132 95.9 76.6 115.0
 97 75.3 58.6 88.0





#39

1,2-Dichloropropane

Concen: 10.393 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

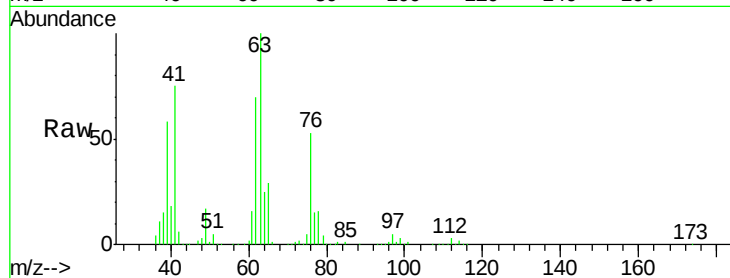
Tot Ion: 63 Resp: 645916

Ion Ratio Lower Upper

63 100

41 75.4 61.2 91.8

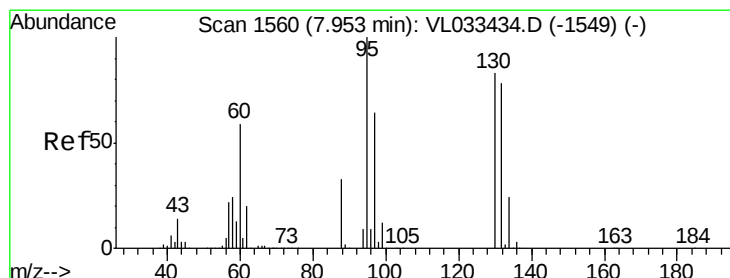
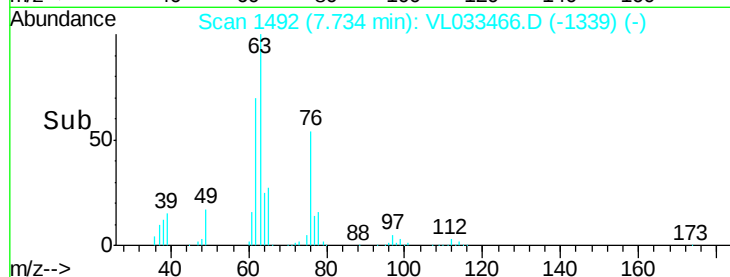
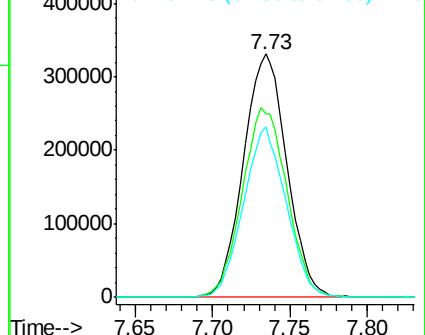
62 69.7 54.0 81.0



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: 11.916 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion: 88 Resp: 264134

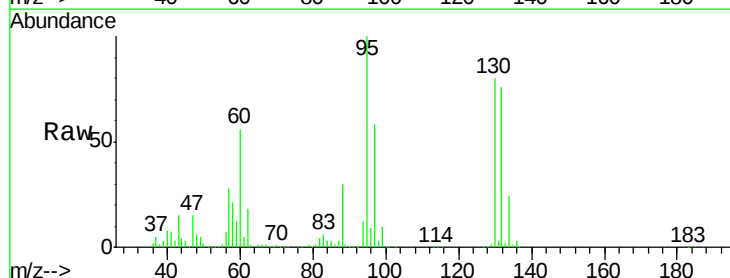
Ion Ratio Lower Upper

88 100

58 123.1 105.6 158.4

43 250.6 216.7 325.1

57 1103.9 975.0 1462.4

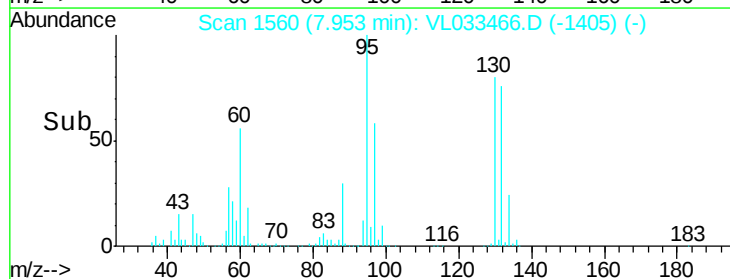
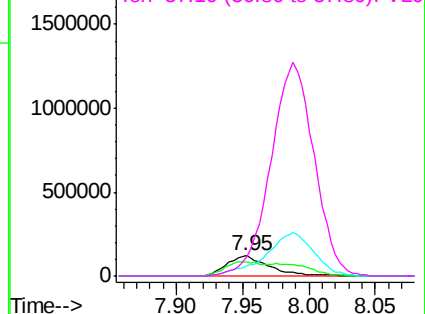


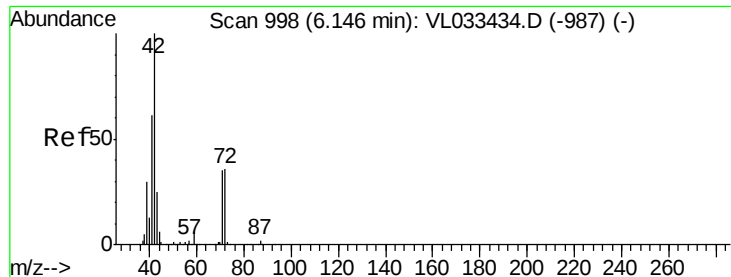
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 10.104 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

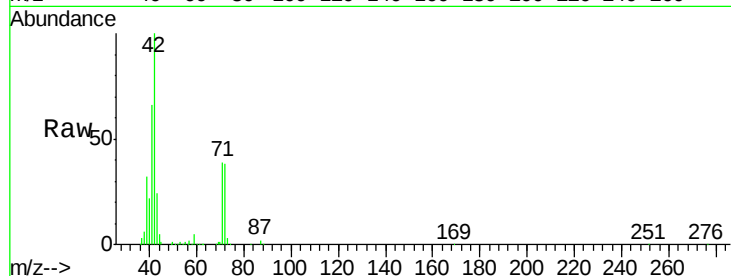
Tot Ion: 42 Resp: 631341

Ion Ratio Lower Upper

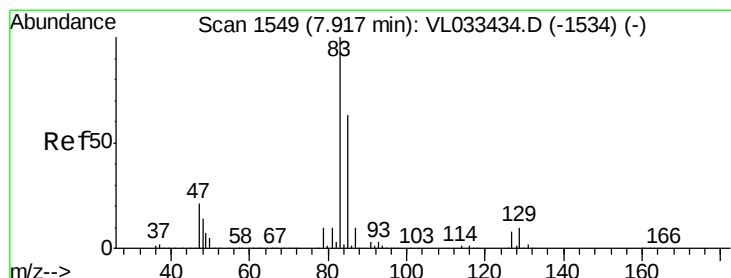
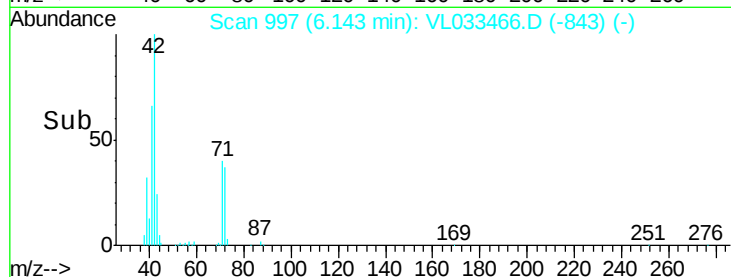
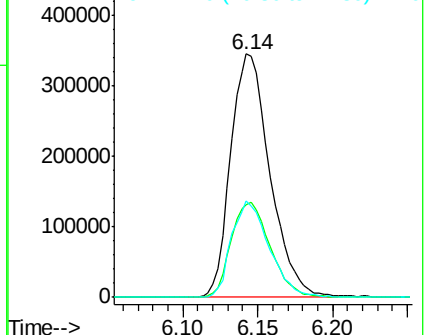
42 100

72 39.0 30.2 45.2

71 38.1 29.4 44.2



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: 10.713 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

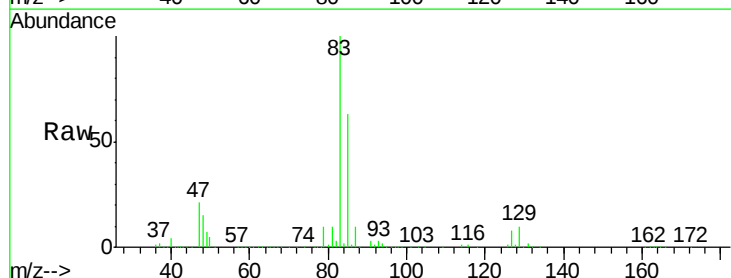
Tgt Ion: 83 Resp: 1551575

Ion Ratio Lower Upper

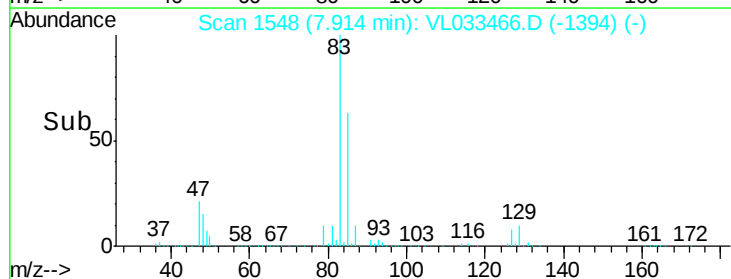
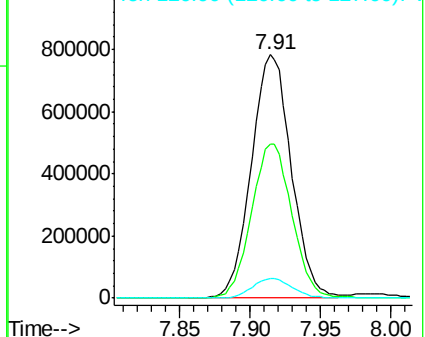
83 100

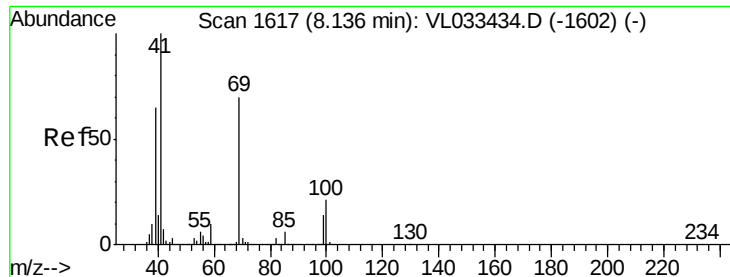
85 63.3 50.7 76.1

127 8.0 6.6 9.8



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

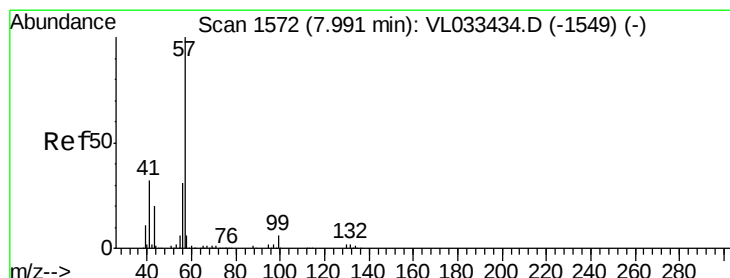
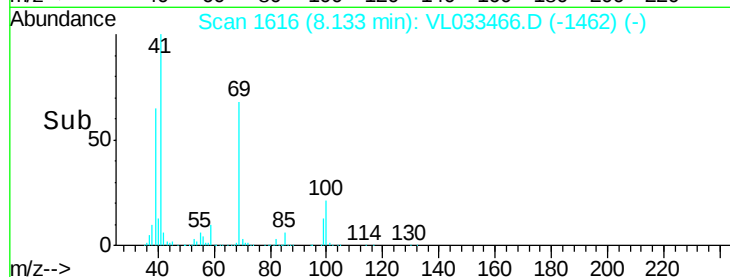
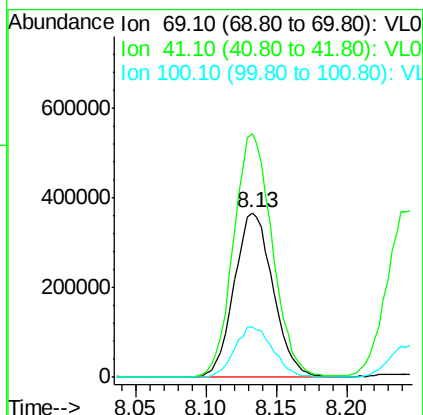
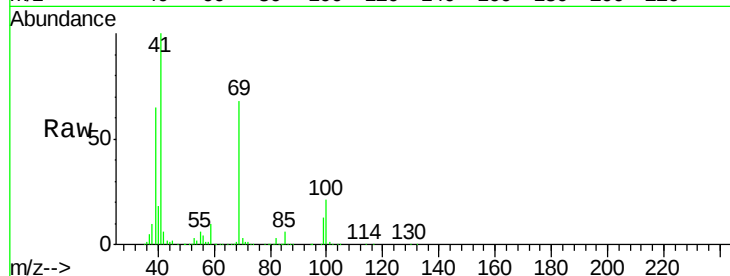




#43
Methvl Methacrylate
Concen: 10.996 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

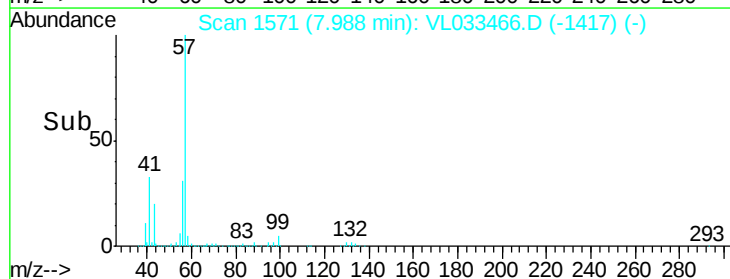
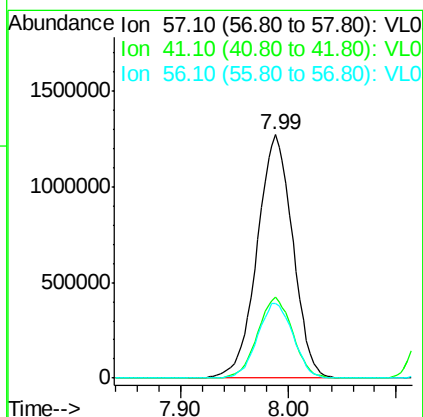
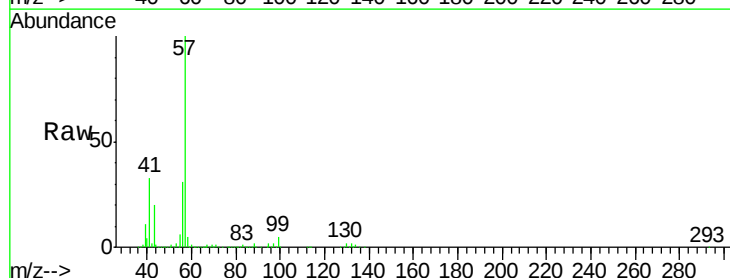
Instrument :
MSVOA_L
ClientSampleId :

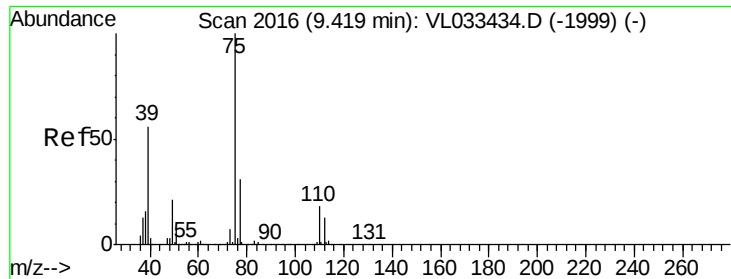
Tot Ion: 69 Resp: 708309
Ion Ratio Lower Upper
69 100
41 147.7 116.6 174.8
100 30.5 24.4 36.6



#44
2,2,4-Trimethylpentane
Concen: 10.500 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion: 57 Resp: 2910887
Ion Ratio Lower Upper
57 100
41 32.7 26.0 39.0
56 30.8 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 12.122 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

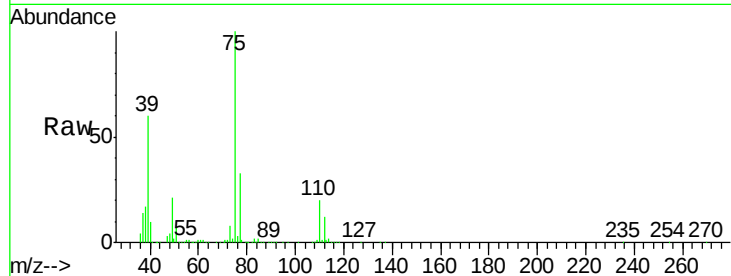
ClientSampled :

Tot Ion: 75 Resp: 958735

Ion Ratio Lower Upper

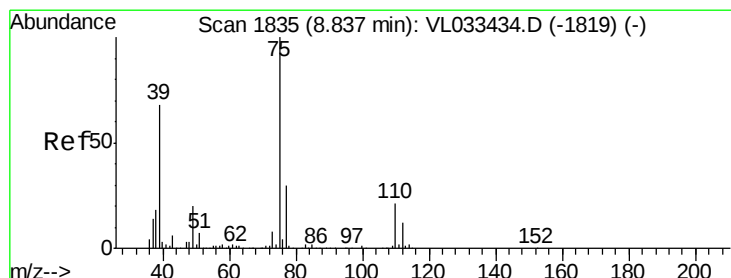
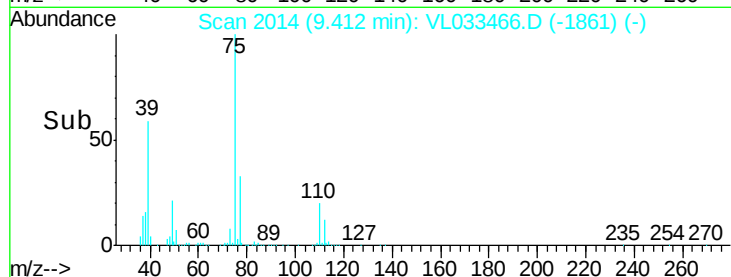
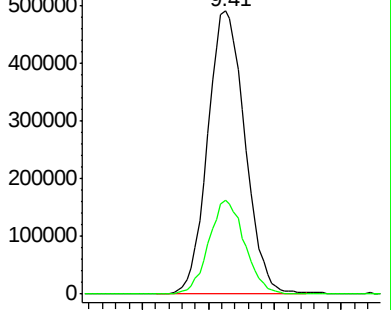
75 100

77 33.0 24.5 36.7



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 11.726 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

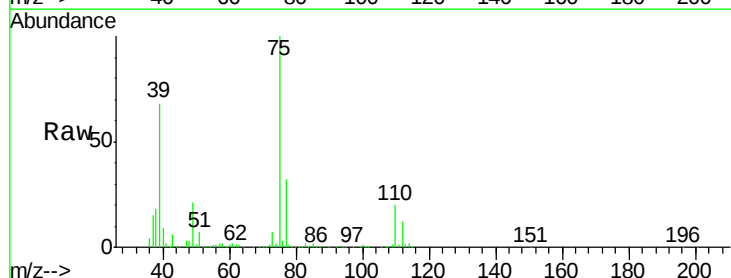
Tgt Ion: 75 Resp: 1083034

Ion Ratio Lower Upper

75 100

39 67.9 54.1 81.1

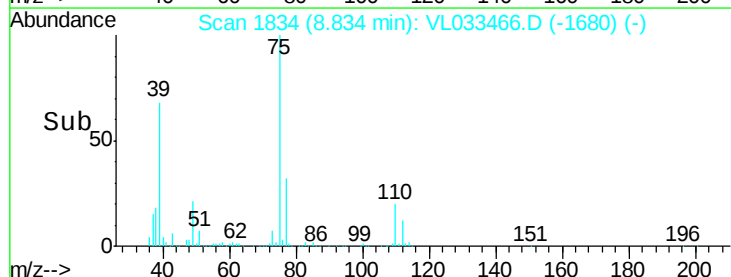
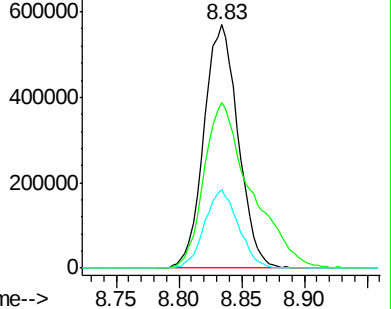
77 32.5 23.9 35.9

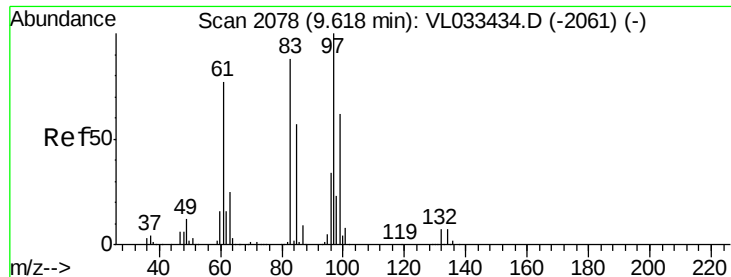


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

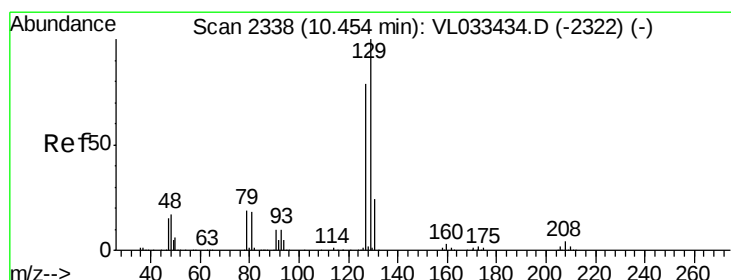
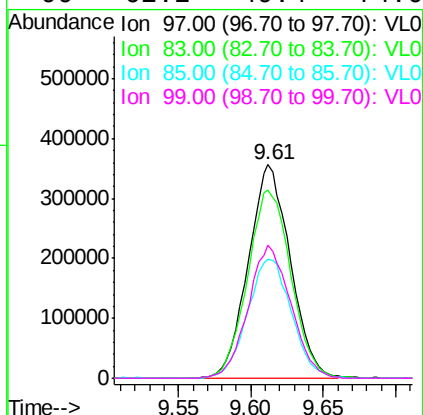
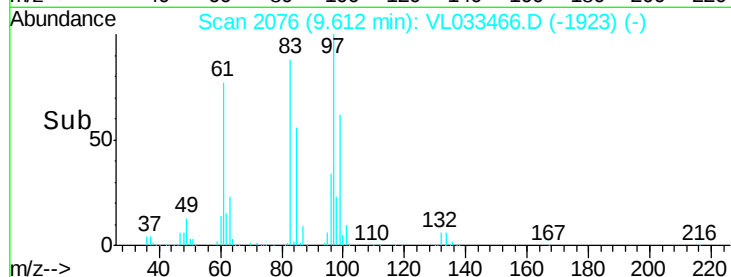
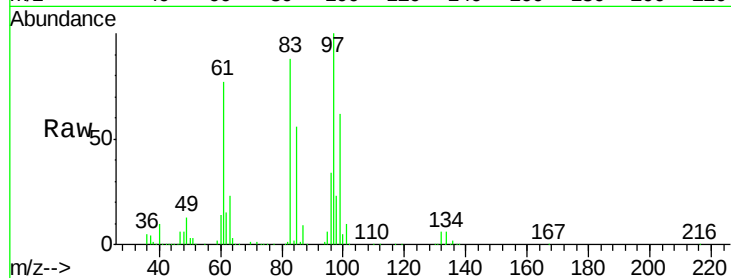




#47
 1,1,2-Trichloroethane
 Concen: 10.185 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

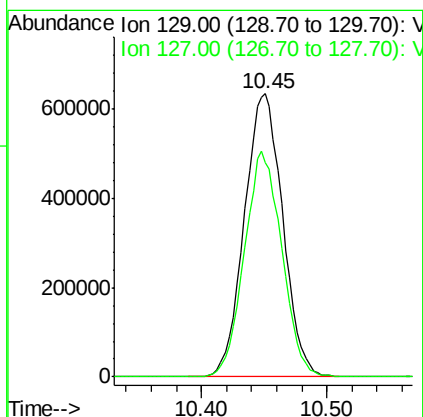
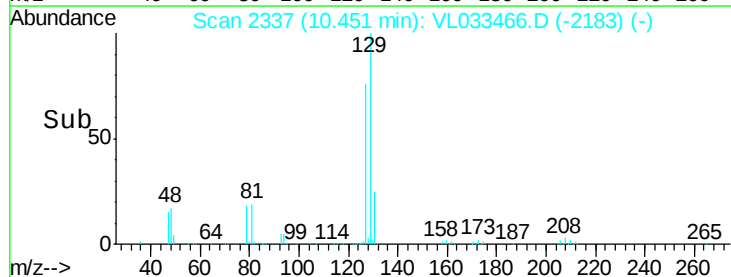
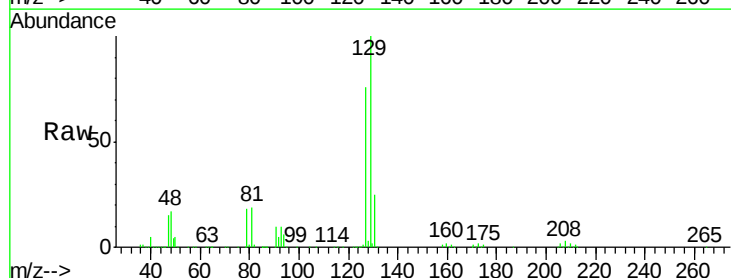
Instrument :
 MSVOA_L
 ClientSampleId :

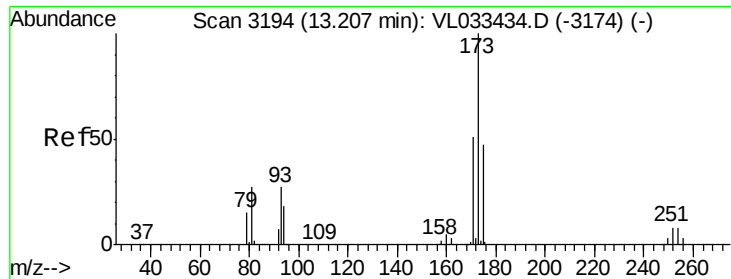
Tot Ion: 97 Resp: 718734
 Ion Ratio Lower Upper
 97 100
 83 87.9 70.5 105.7
 85 55.5 45.6 68.4
 99 62.2 49.4 74.0



#48
 Dibromochloromethane
 Concen: 11.320 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion: 129 Resp: 1347377
 Ion Ratio Lower Upper
 129 100
 127 78.0 39.1 117.2





#49

Bromoform

Concen: 10.783 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

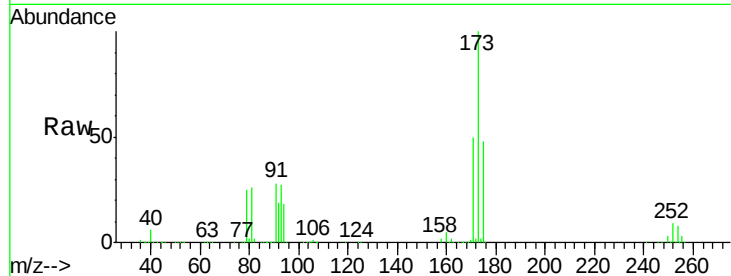
Tot Ion:173 Resp: 1226179

Ion Ratio Lower Upper

173 100

175 48.6 39.3 58.9

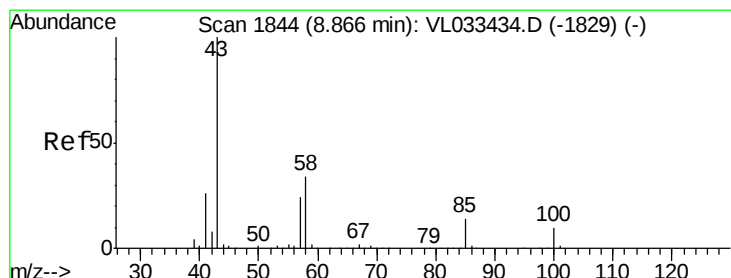
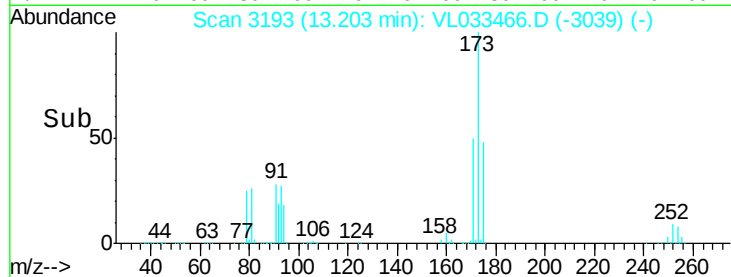
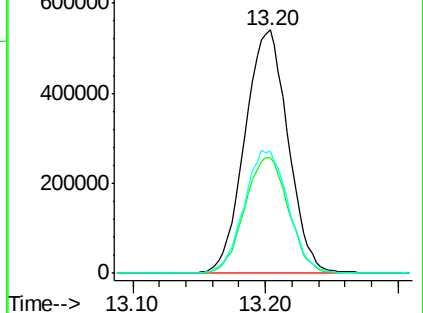
171 51.6 41.2 61.8



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: 10.758 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VL033466.D

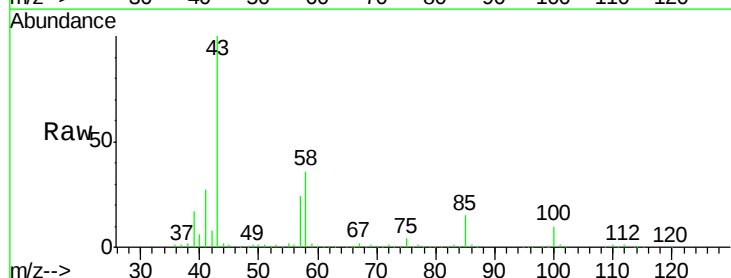
Acq: 27 Mar 2019 13:29

Tgt Ion: 43 Resp: 1789458

Ion Ratio Lower Upper

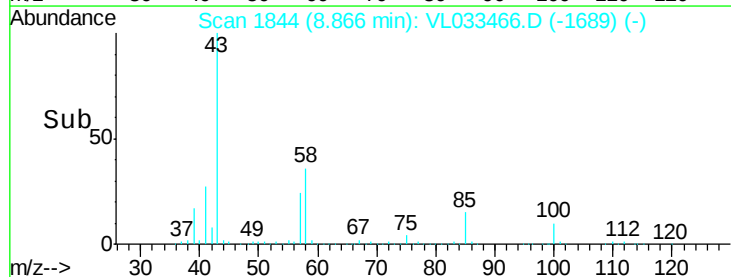
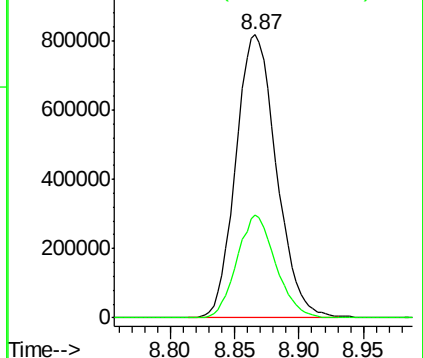
43 100

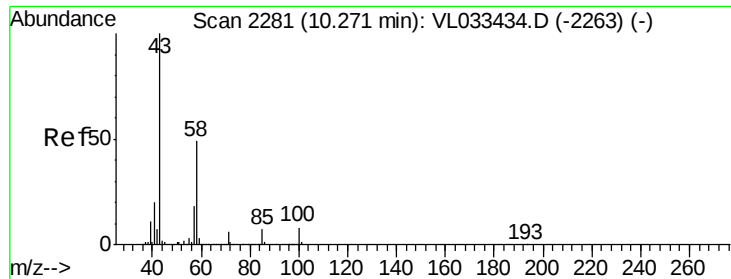
58 35.0 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

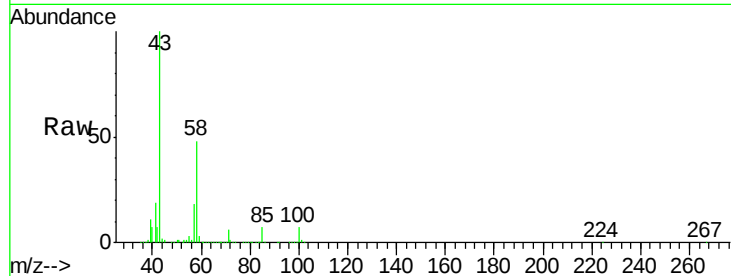




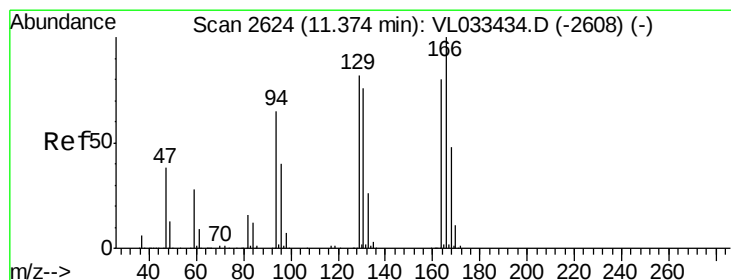
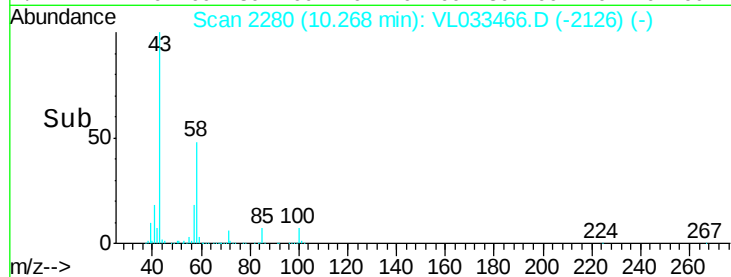
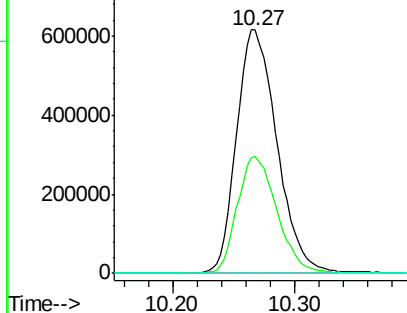
#51
2-Hexanone
Concen: 11.386 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1412713
Ion Ratio Lower Upper
43 100
58 47.2 38.2 57.2
98 0.2 0.2 0.2

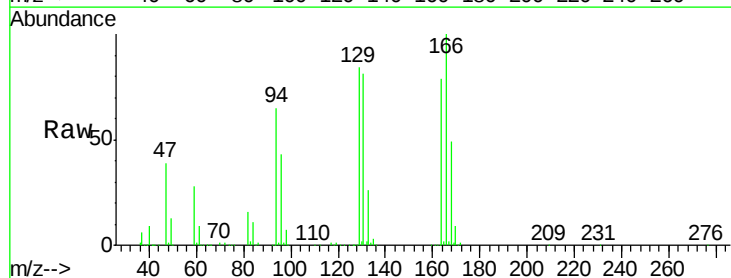


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

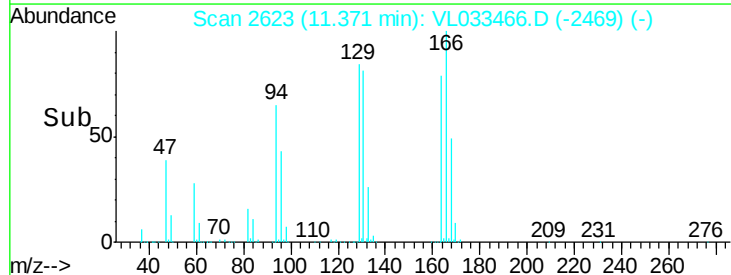
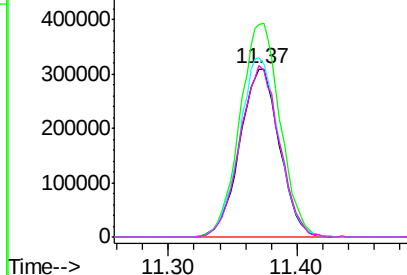


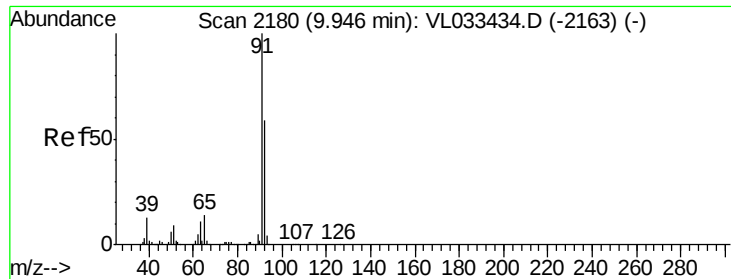
#52
Tetrachloroethene
Concen: 11.078 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion: 164 Resp: 663079
Ion Ratio Lower Upper
164 100
166 126.5 99.5 149.3
129 106.1 81.4 122.2
131 102.0 75.6 113.4



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.238 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

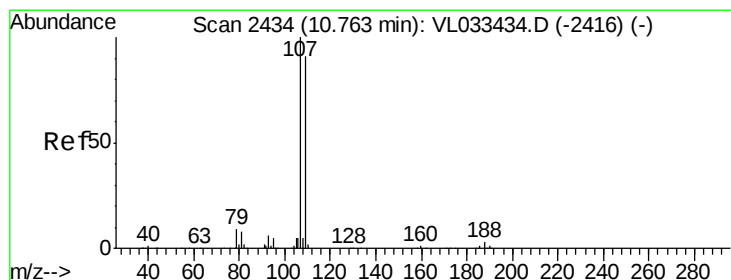
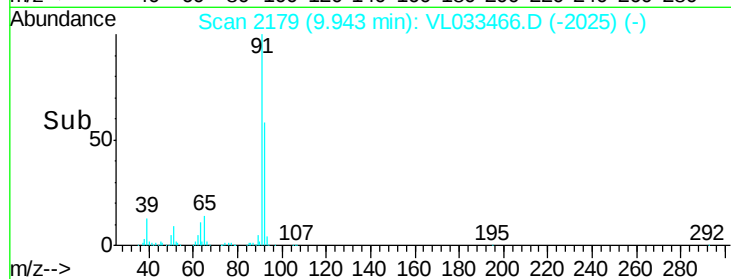
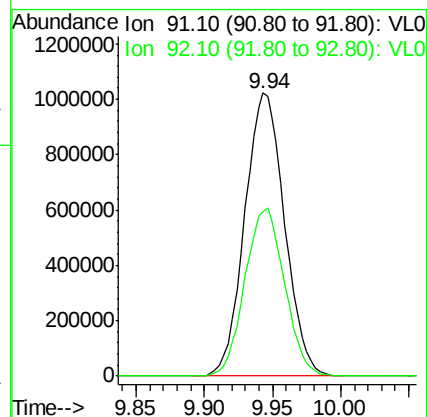
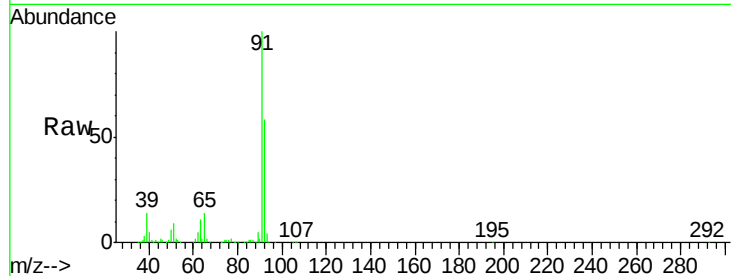
ClientSampleId :

Tot Ion: 91 Resp: 2071723

Ion Ratio Lower Upper

91 100

92 59.3 47.4 71.0



#54

1,2-Dibromoethane

Concen: 10.694 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033466.D

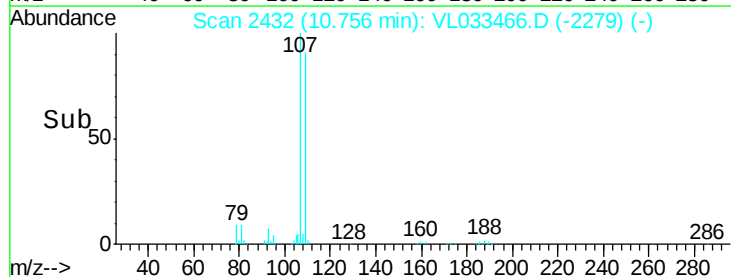
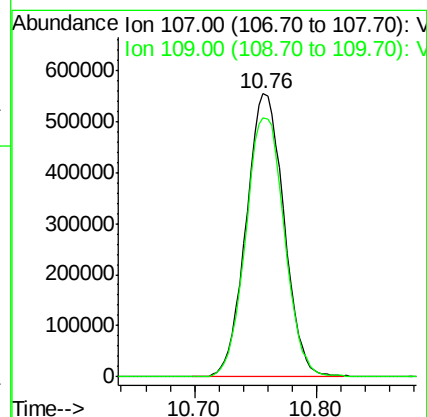
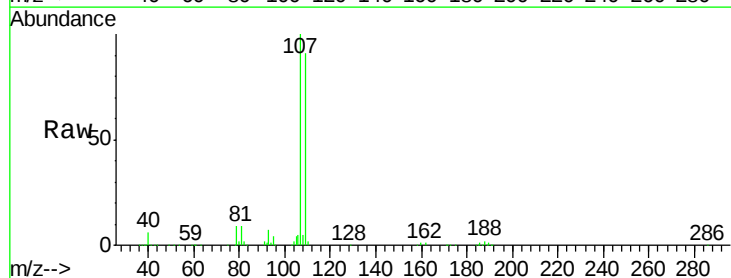
Acq: 27 Mar 2019 13:29

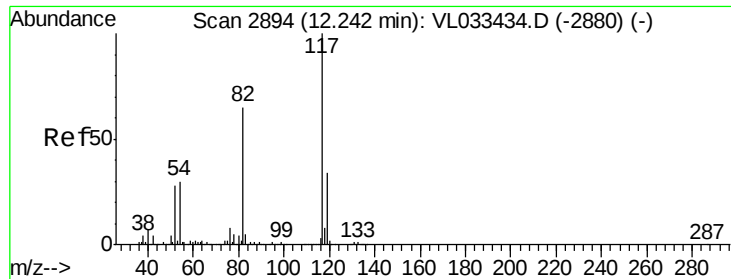
Tgt Ion: 107 Resp: 1180373

Ion Ratio Lower Upper

107 100

109 91.4 72.7 109.1

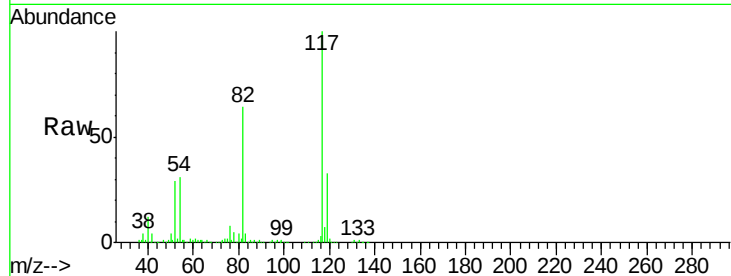




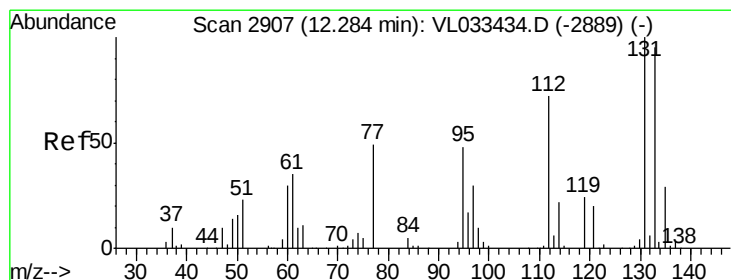
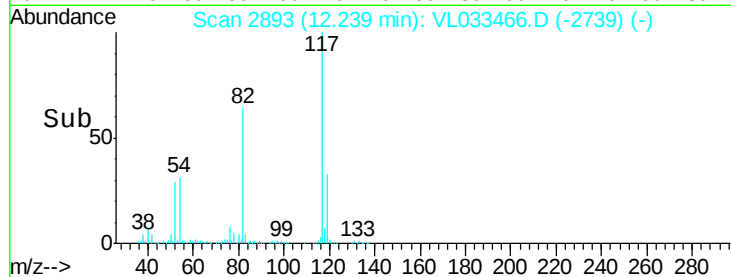
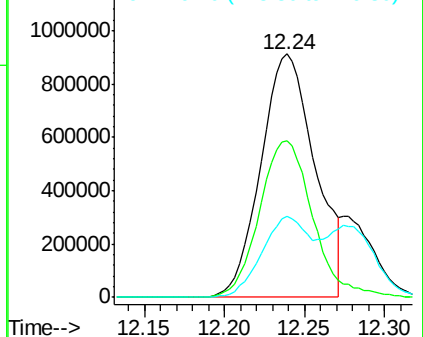
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2144259
Ion Ratio Lower Upper
117 100
82 63.6 51.5 77.3
119 30.0 25.5 38.3

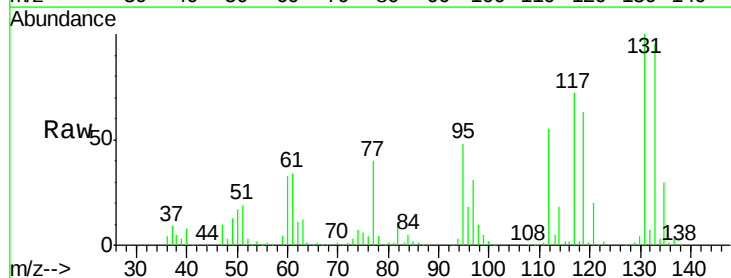


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

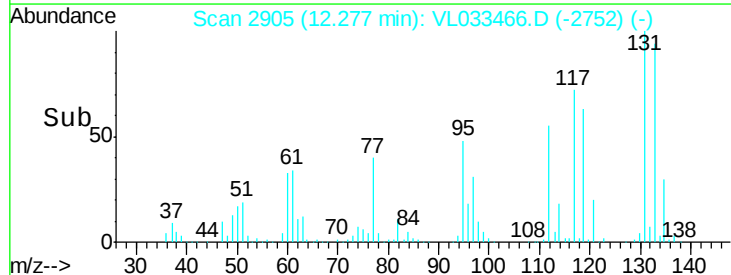
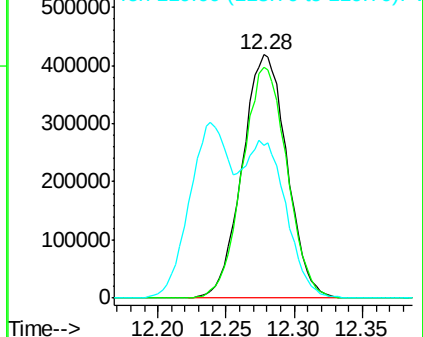


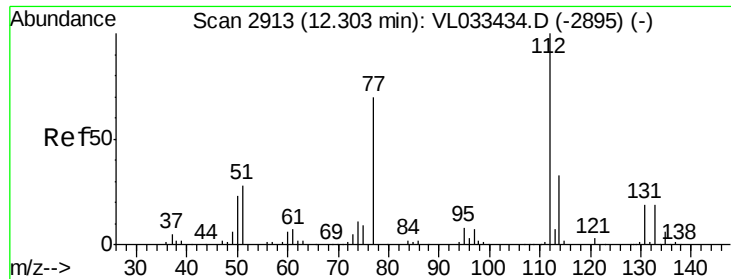
#56
1,1,1,2-Tetrachloroethane
Concen: 9.675 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion:131 Resp: 950813
Ion Ratio Lower Upper
131 100
133 95.2 76.2 114.4
119 65.3 45.0 67.6



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V

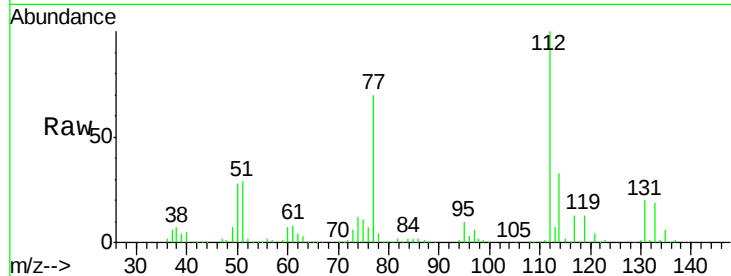




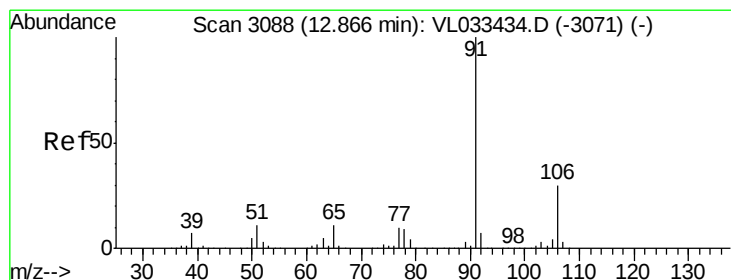
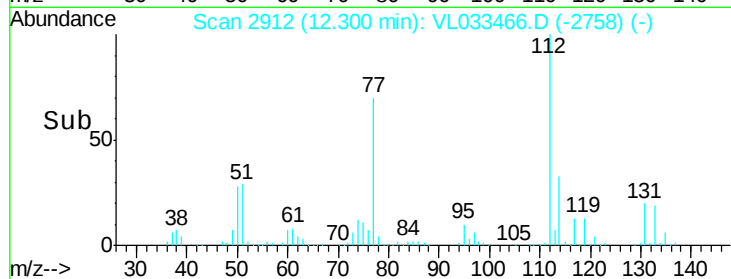
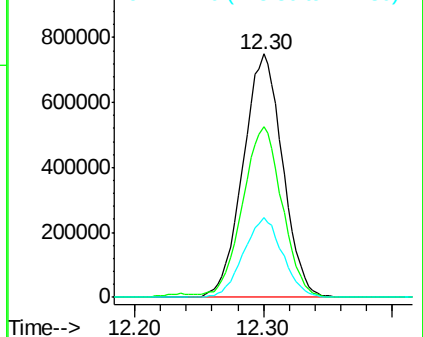
#57
Chlorobenzene
Concen: 9.610 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:112 Resp: 1600048
Ion Ratio Lower Upper
112 100
77 70.1 57.3 85.9
114 32.7 29.8 36.4

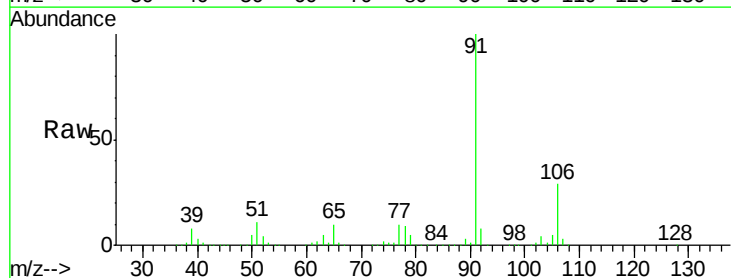


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

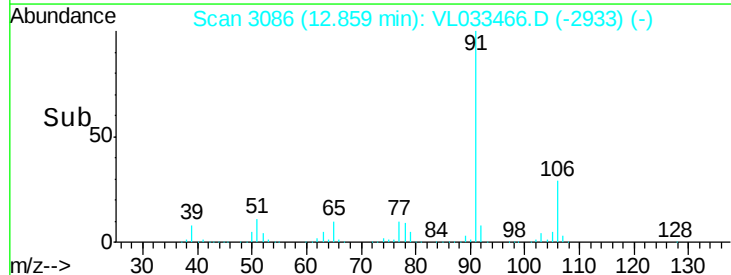
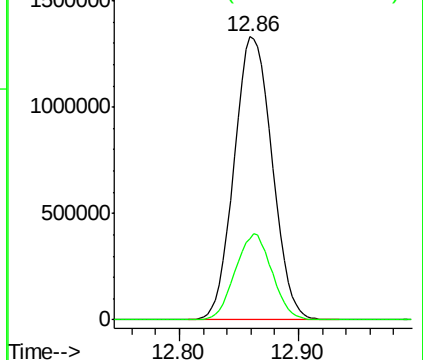


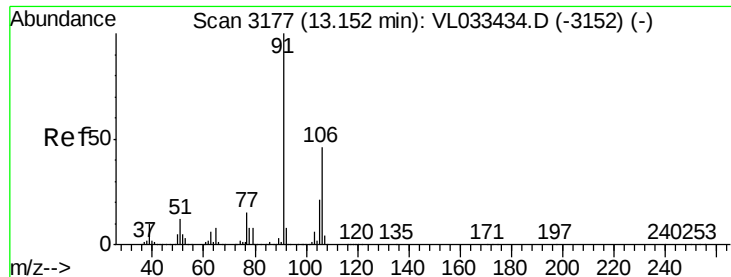
#58
Ethyl Benzene
Concen: 10.282 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion: 91 Resp: 2944287
Ion Ratio Lower Upper
91 100
106 28.7 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

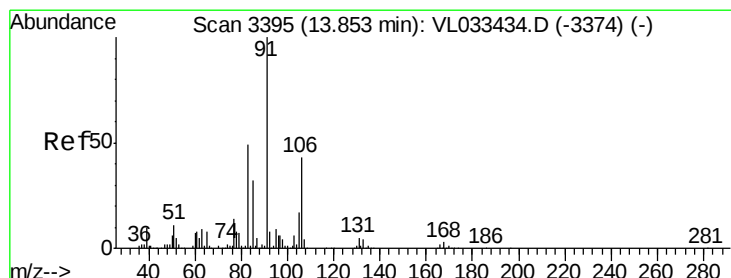
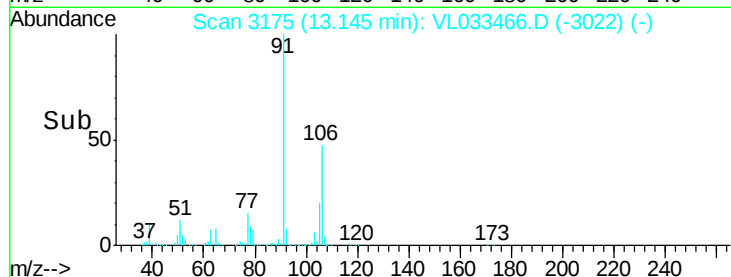
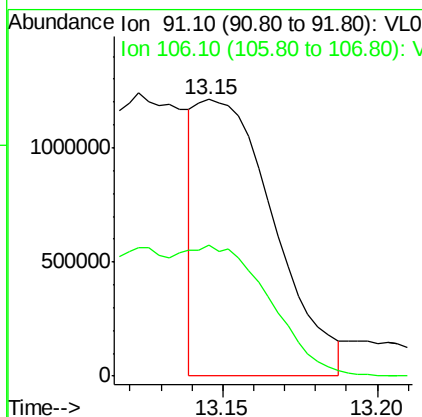
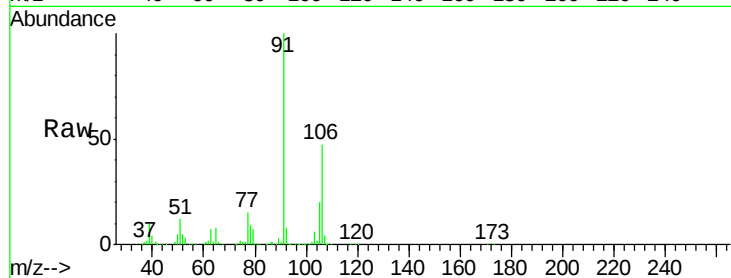




#59
m/p-Xylene
Concen: 8.211 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.01 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

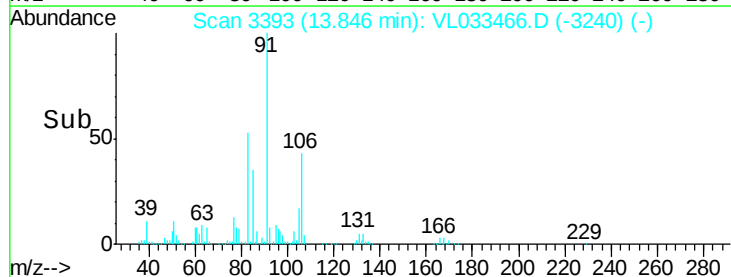
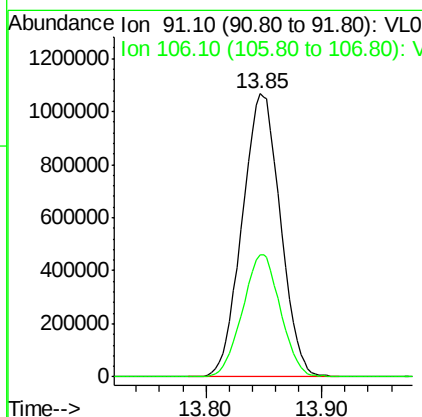
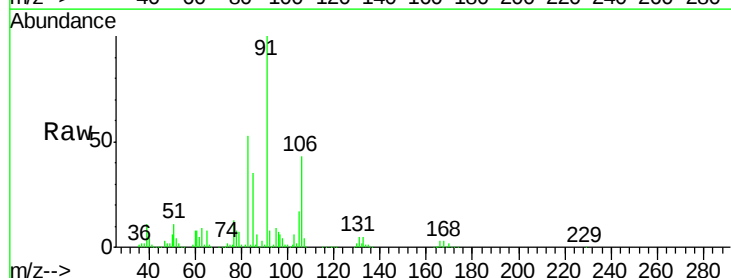
Instrument :
MSVOA_L
ClientSampled :

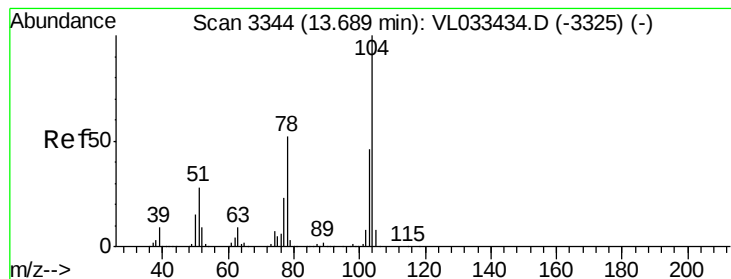
Tot Ion: 91 Resp: 2100233
Ion Ratio Lower Upper
91 100
106 106.0 0.0 0.0#



#60
o-Xylene
Concen: 9.908 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion: 91 Resp: 2450412
Ion Ratio Lower Upper
91 100
106 42.9 21.4 64.3





#61

Stvrene

Concen: 10.648 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

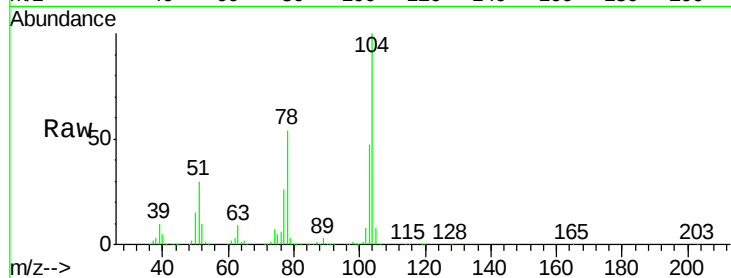
Tot Ion:104 Resp: 1807543

Ion Ratio Lower Upper

104 100

78 54.1 43.2 64.8

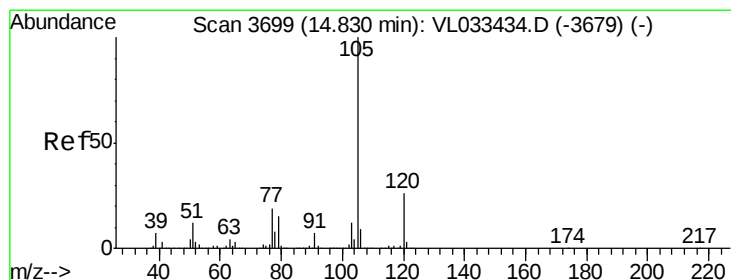
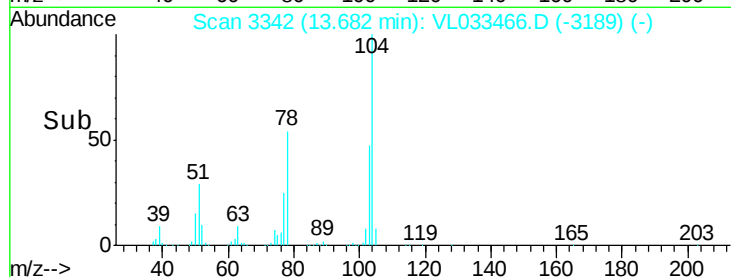
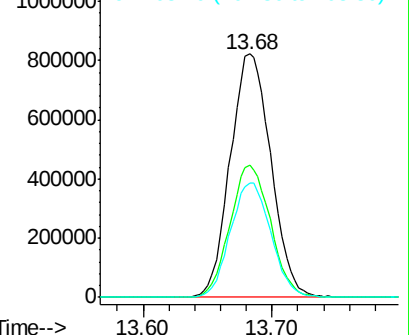
103 47.0 37.8 56.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.770 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL033466.D

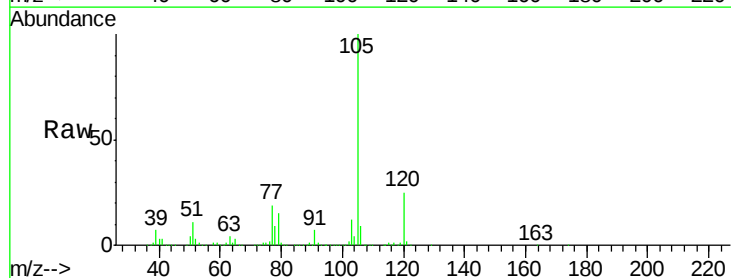
Acq: 27 Mar 2019 13:29

Tgt Ion:105 Resp: 3421775

Ion Ratio Lower Upper

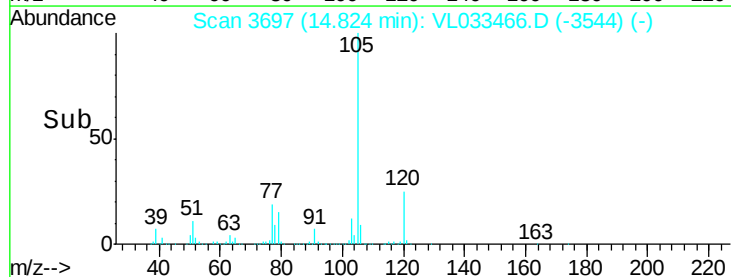
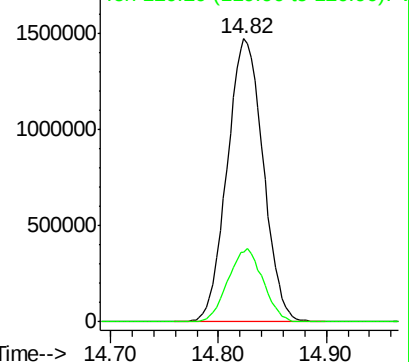
105 100

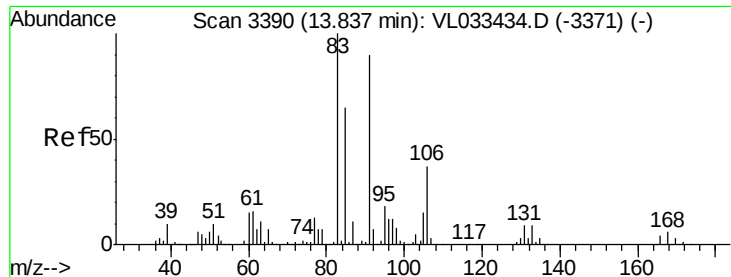
120 25.4 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

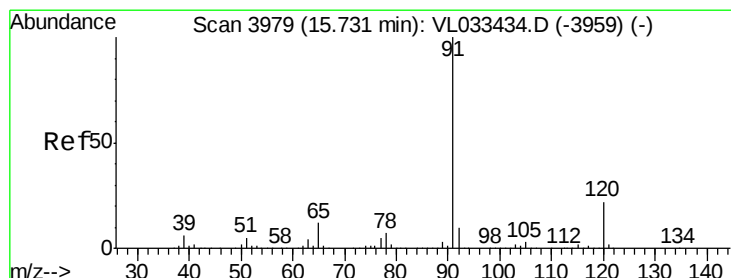
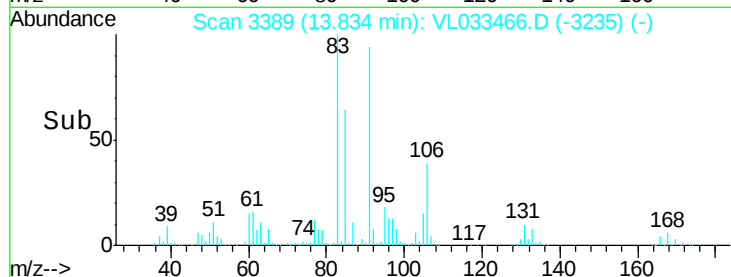
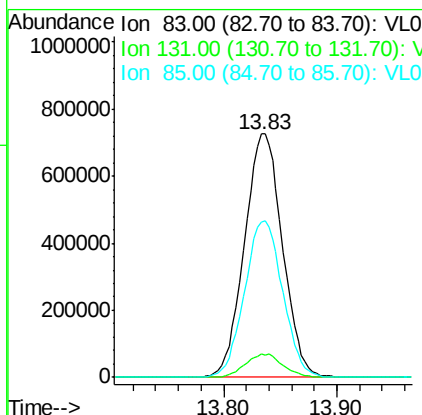
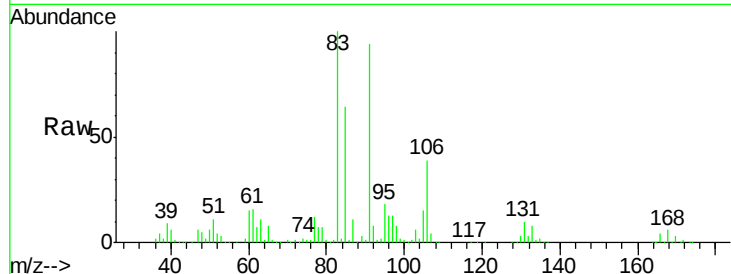




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.318 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

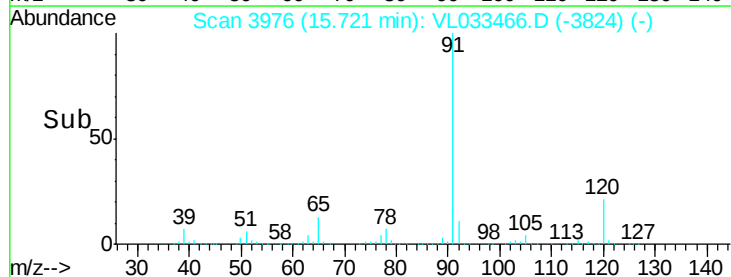
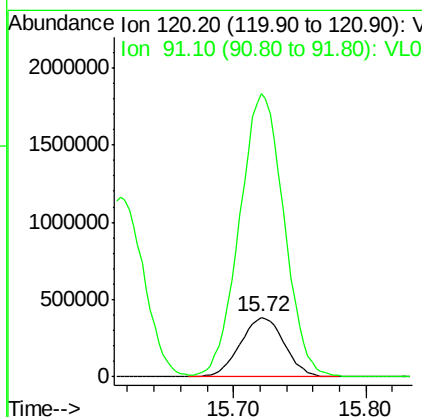
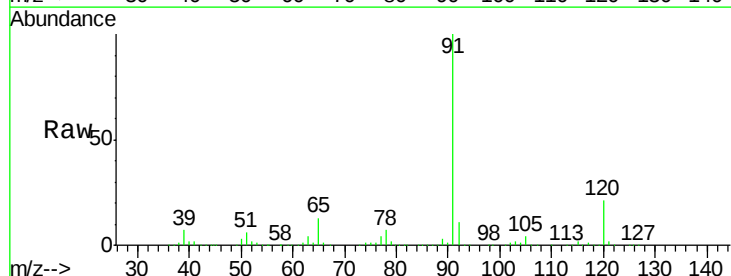
Instrument :
 MSVOA_L
 ClientSampled :

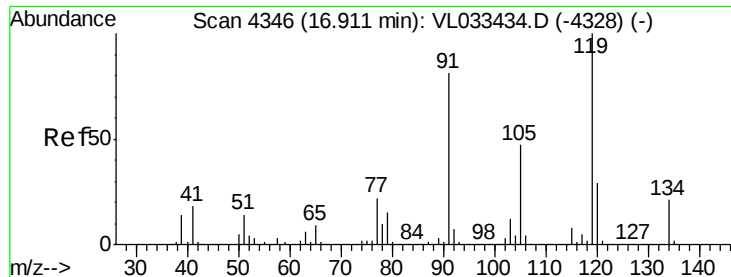
Tot Ion: 83 Resp: 1696854
 Ion Ratio Lower Upper
 83 100
 131 9.5 4.7 14.0
 85 64.7 32.7 98.1



#64
 n-propylbenzene
 Concen: 10.041 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion: 120 Resp: 892391
 Ion Ratio Lower Upper
 120 100
 91 479.0 387.4 581.2





#65

tert-Butylbenzene

Concen: 10.046 ppbv

RT: 16.91 min Scan# 4345

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

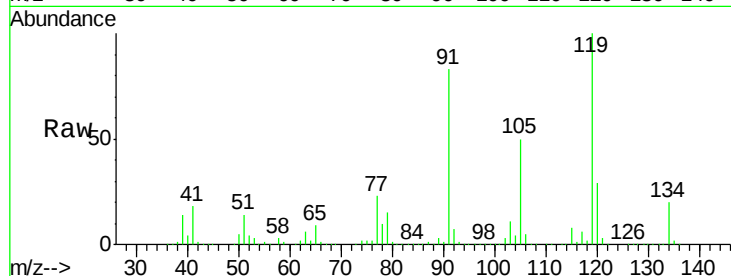
Tot Ion:119 Resp: 3100456

Ion Ratio Lower Upper

119 100

91 83.0 66.4 99.6

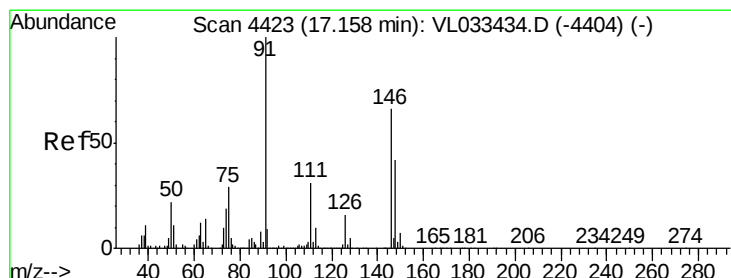
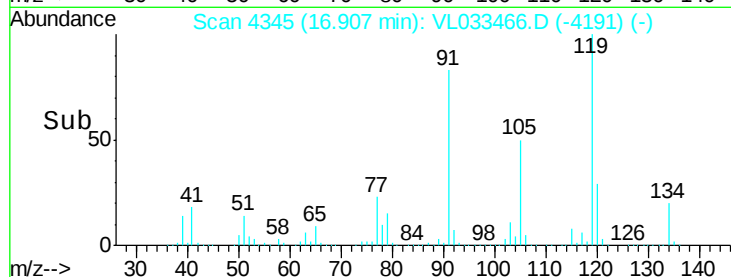
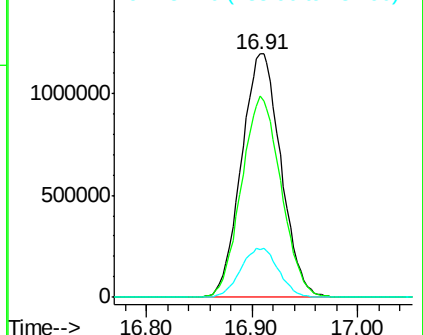
134 19.4 15.5 23.3



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.030 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

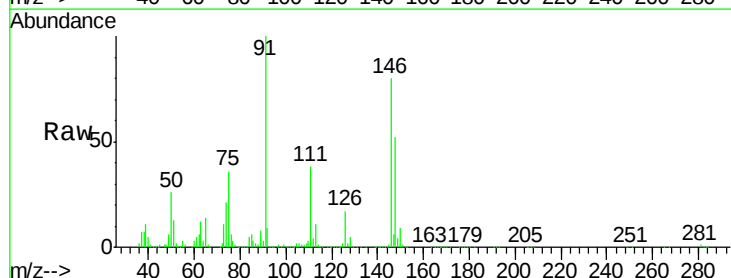
Tgt Ion: 91 Resp: 1726541

Ion Ratio Lower Upper

91 100

126 16.4 13.0 19.6

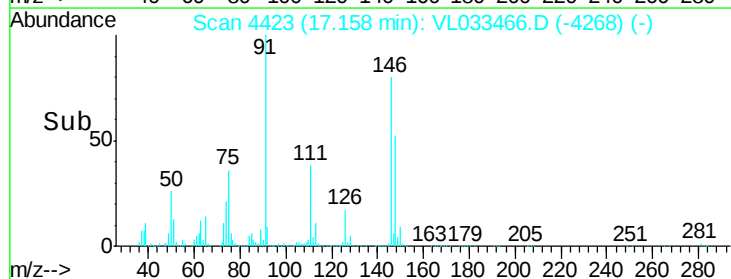
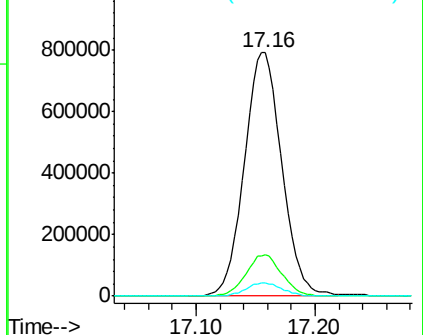
128 5.3 4.2 6.2

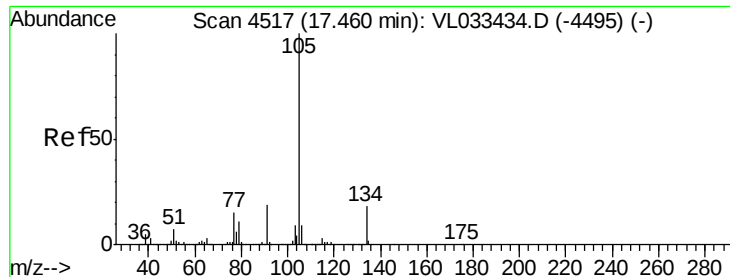


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.062 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

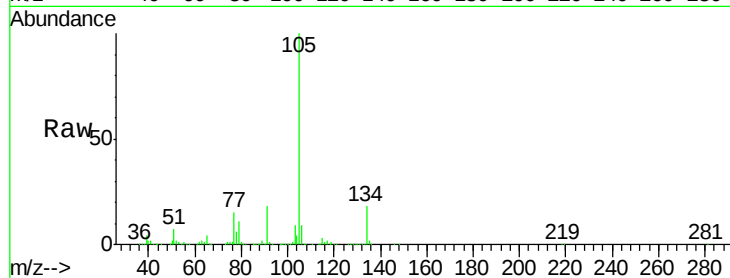
ClientSampleId :

Tot Ion:105 Resp: 4416207

Ion Ratio Lower Upper

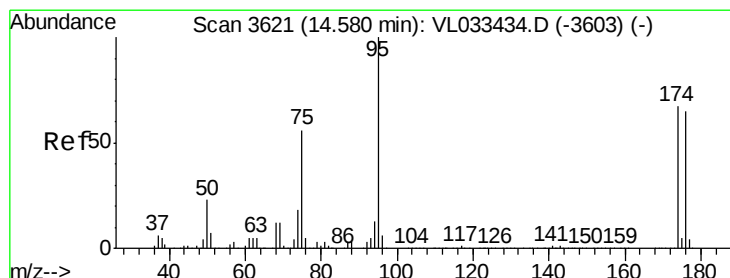
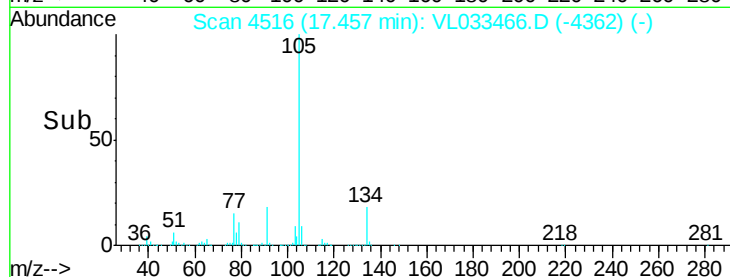
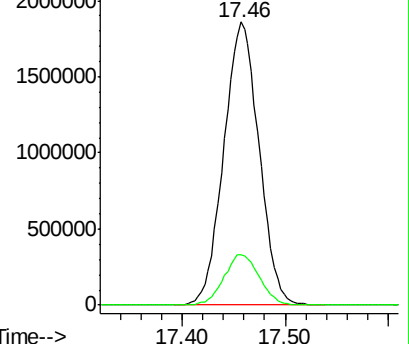
105 100

134 18.0 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.502 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

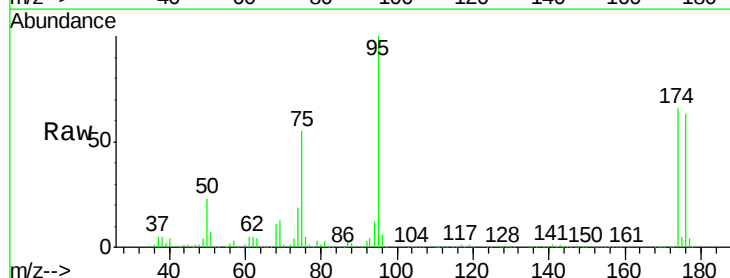
Tgt Ion: 95 Resp: 1597286

Ion Ratio Lower Upper

95 100

174 67.0 52.9 79.3

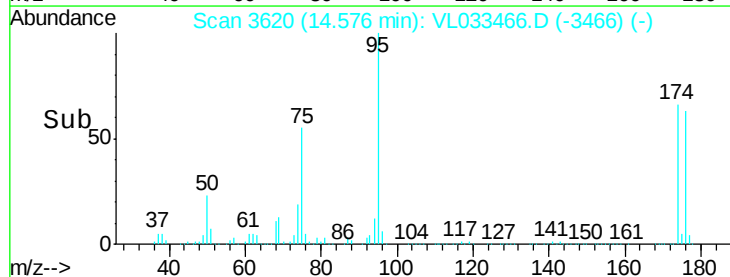
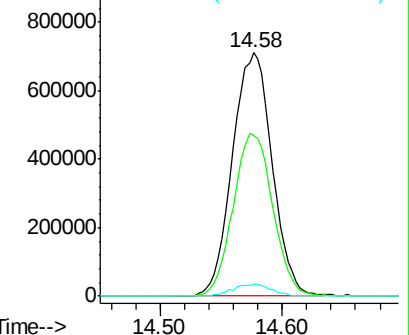
175 4.8 3.8 5.6

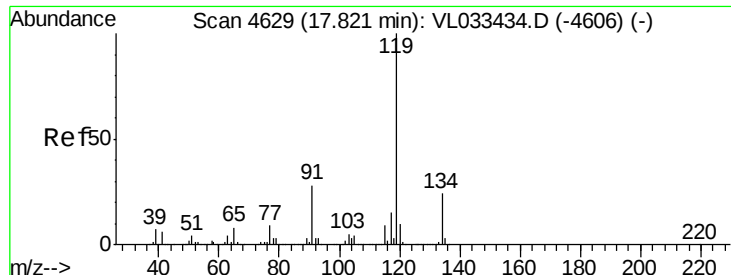


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

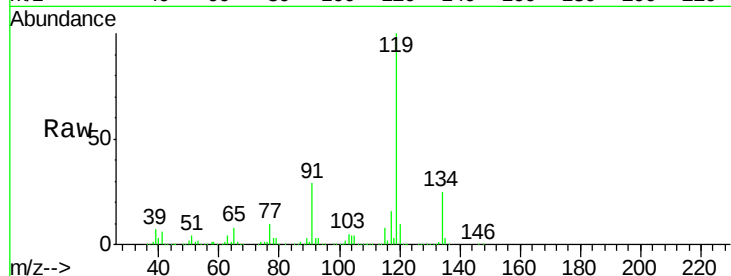




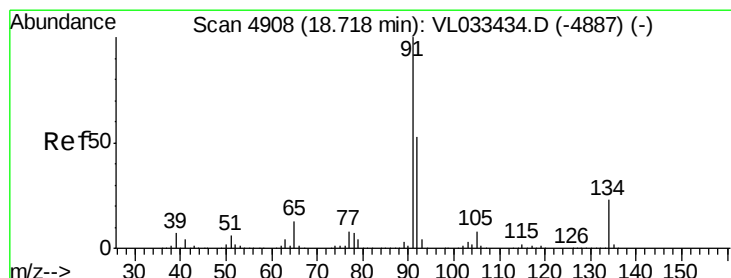
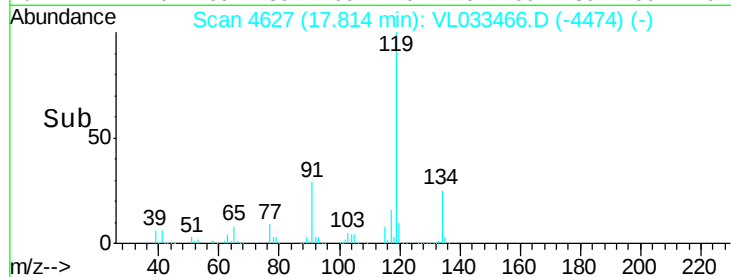
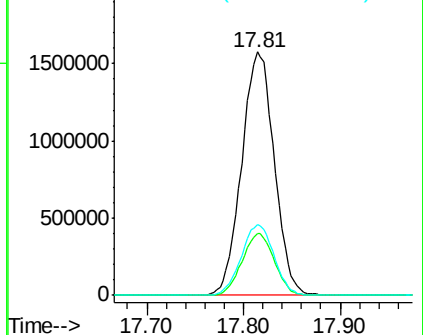
#69
 p-Isopropyltoluene
 Concen: 10.333 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:119 Resp: 3692587
 Ion Ratio Lower Upper
 119 100
 134 25.1 19.9 29.9
 91 29.2 23.4 35.0

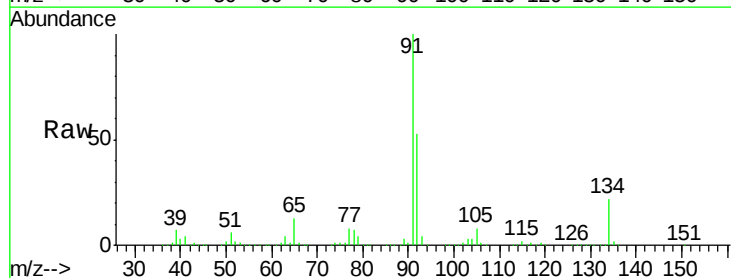


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

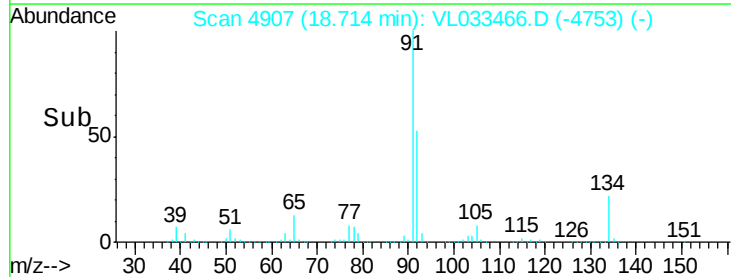
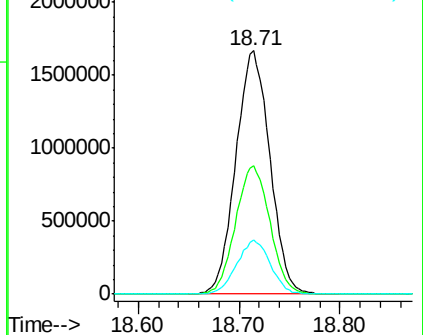


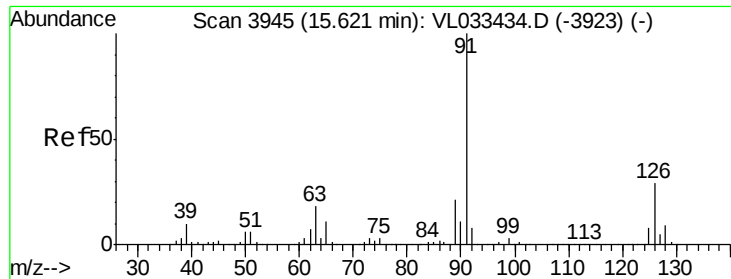
#70
 n-Butylbenzene
 Concen: 10.306 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion: 91 Resp: 3902234
 Ion Ratio Lower Upper
 91 100
 92 53.1 42.6 64.0
 134 21.9 17.5 26.3



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.102 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

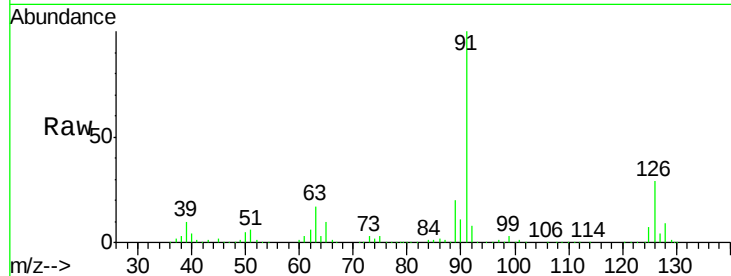
ClientSampleId :

Tot Ion: 91 Resp: 2690377

Ion Ratio Lower Upper

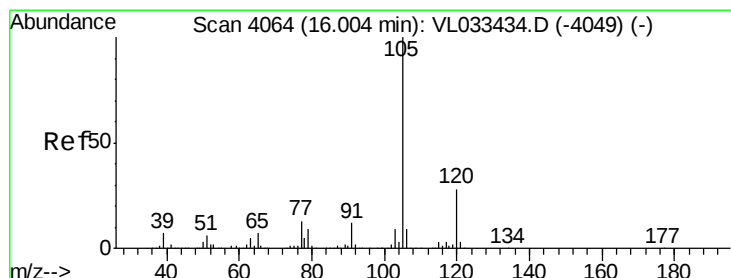
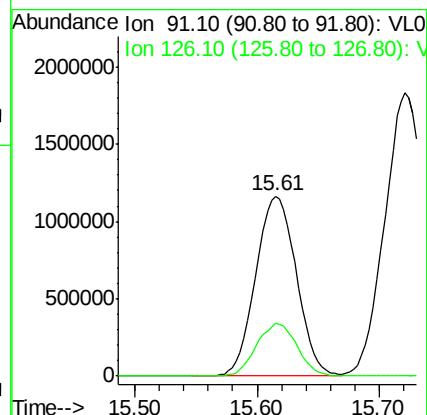
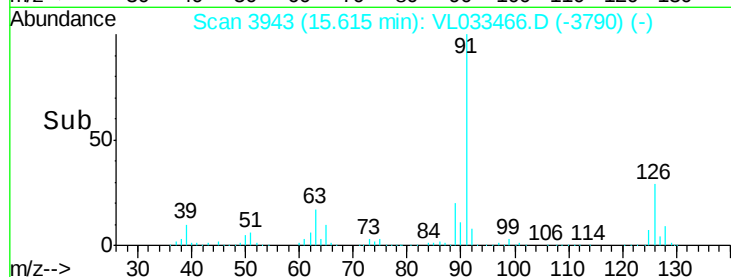
91 100

126 29.4 11.7 46.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.328 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion:105 Resp: 2871209

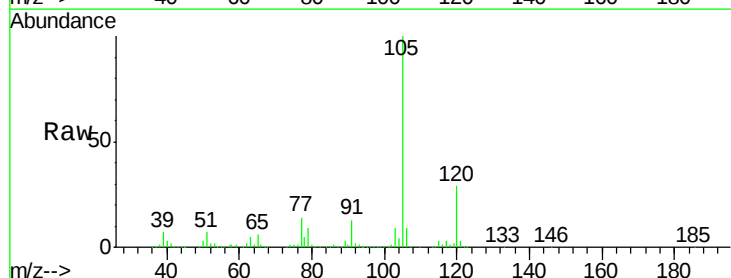
Ion Ratio Lower Upper

105 100

120 28.7 23.2 34.8

91 13.0 10.4 15.6

77 14.3 11.3 16.9

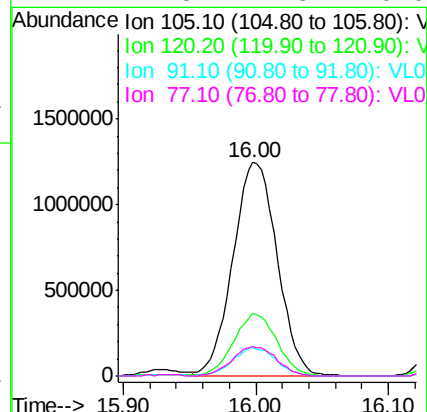
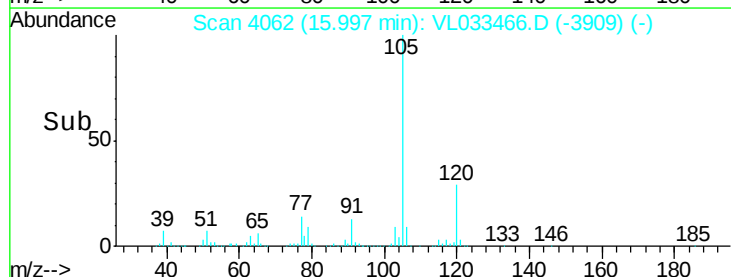


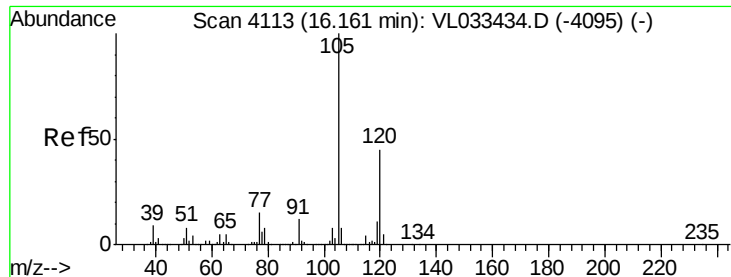
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.405 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

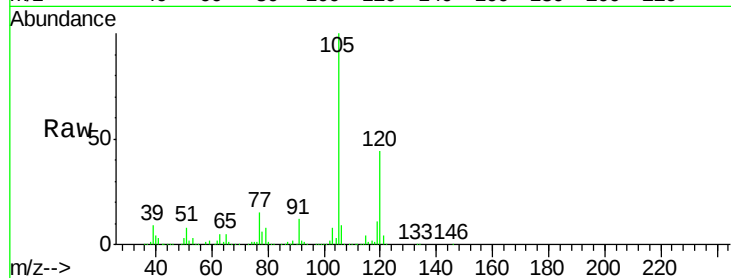
ClientSampleId :

Tot Ion:105 Resp: 2768274

Ion Ratio Lower Upper

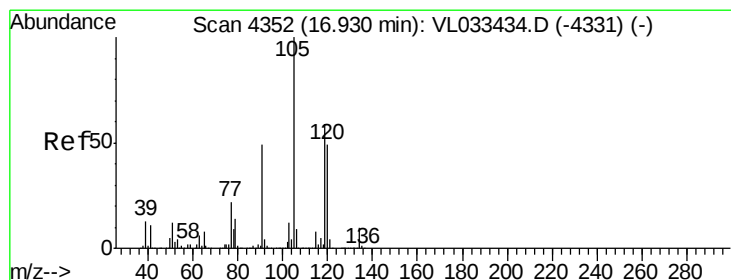
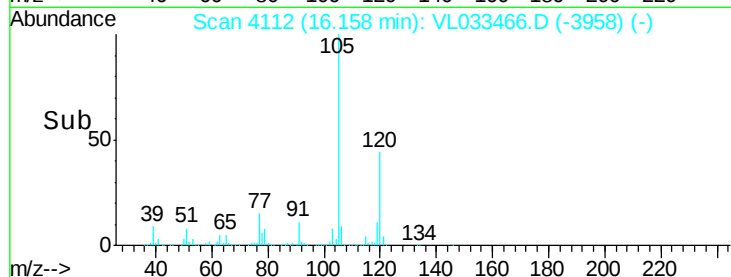
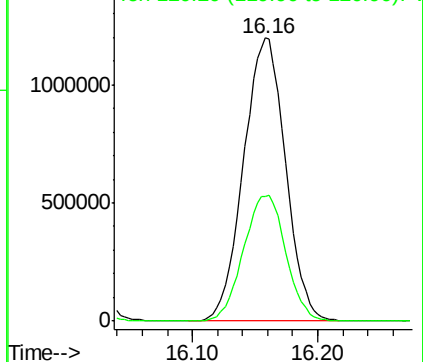
105 100

120 44.2 35.7 53.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.064 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion:105 Resp: 2869772

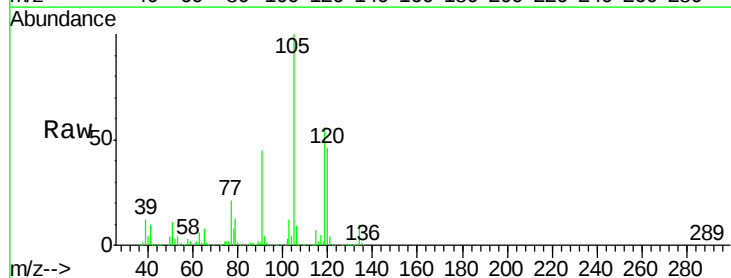
Ion Ratio Lower Upper

105 100

120 46.2 39.0 58.6

91 45.4 40.0 60.0

77 20.8 17.5 26.3

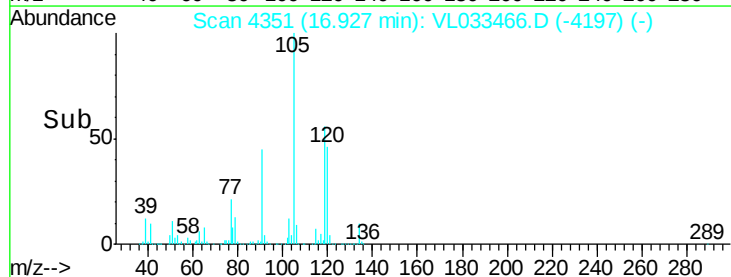
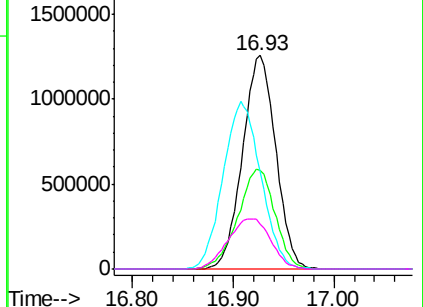


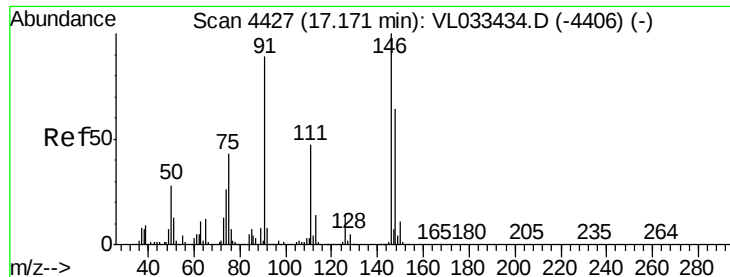
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 9.608 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

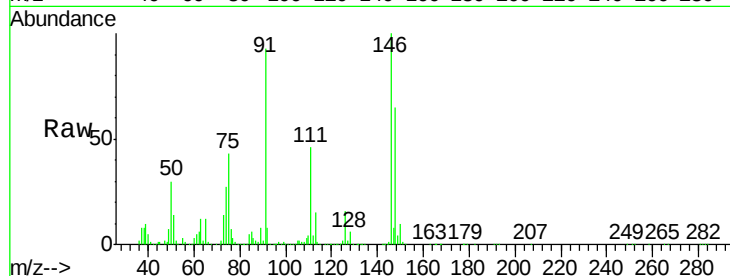
Tot Ion:146 Resp: 1693349

Ion Ratio Lower Upper

146 100

111 45.4 22.9 68.8

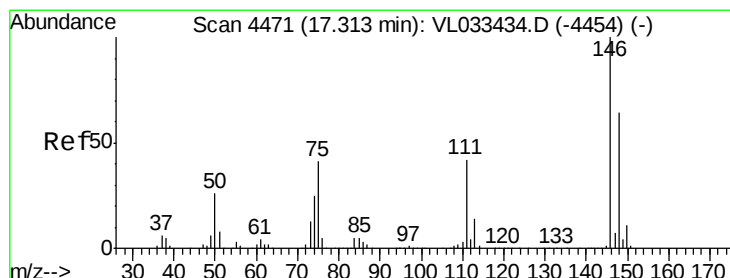
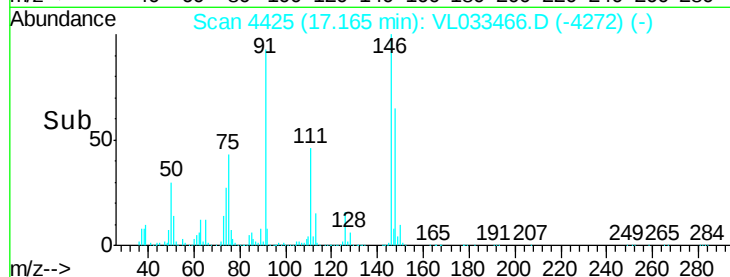
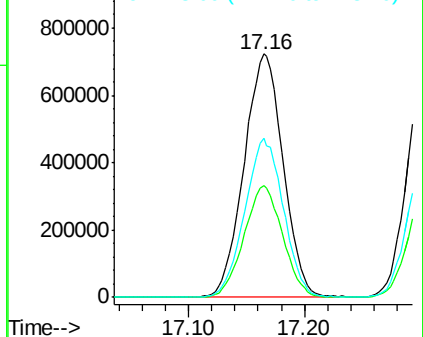
148 64.6 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.913 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

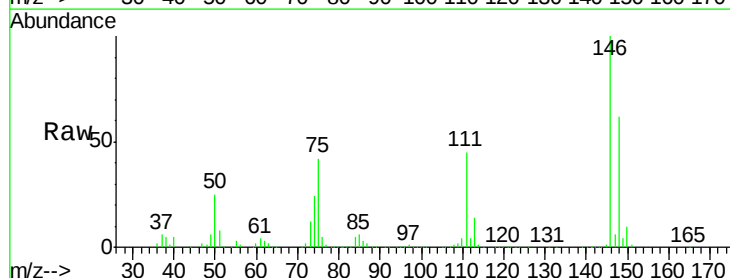
Tgt Ion:146 Resp: 1702275

Ion Ratio Lower Upper

146 100

111 44.0 21.7 65.1

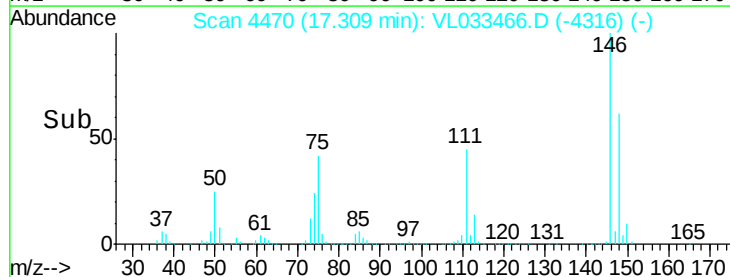
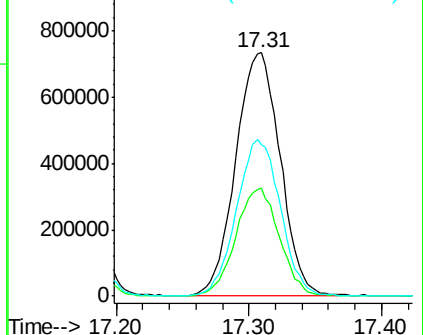
148 64.2 32.0 96.2

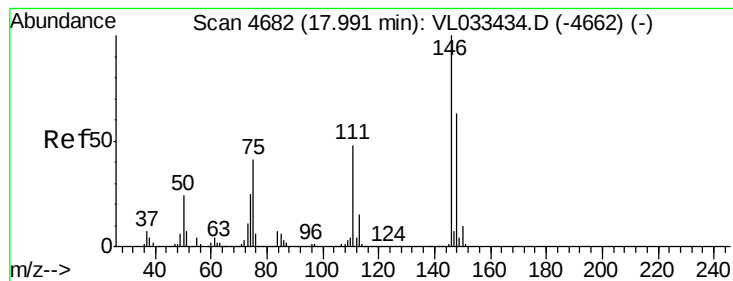


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.918 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

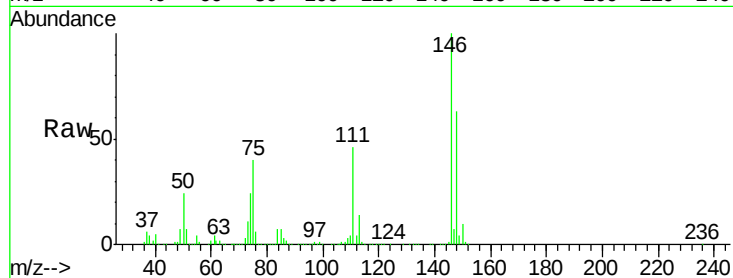
Tot Ion:146 Resp: 1658605

Ion Ratio Lower Upper

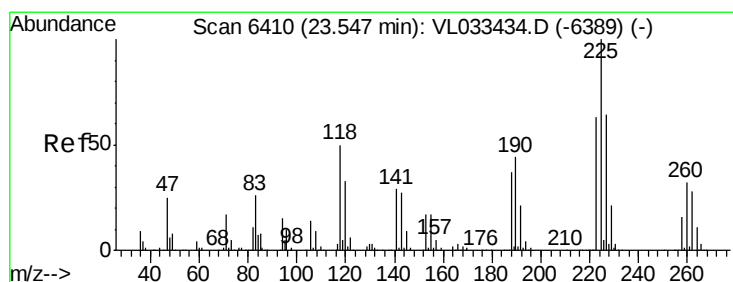
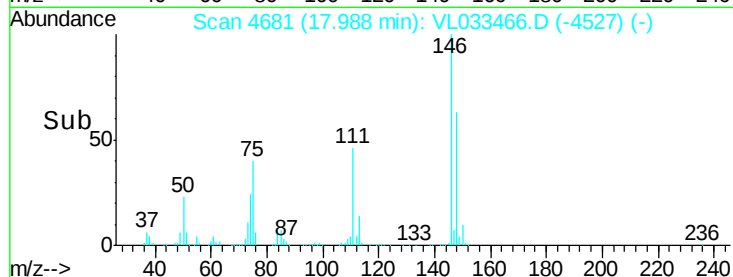
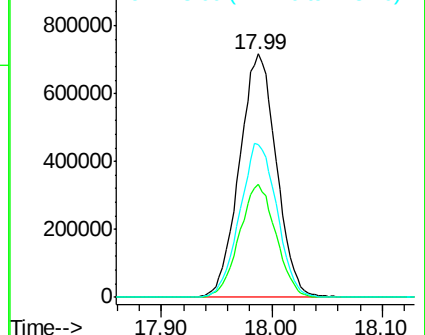
146 100

111 46.1 23.5 70.5

148 63.9 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.301 ppbv

RT: 23.54 min Scan# 6408

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

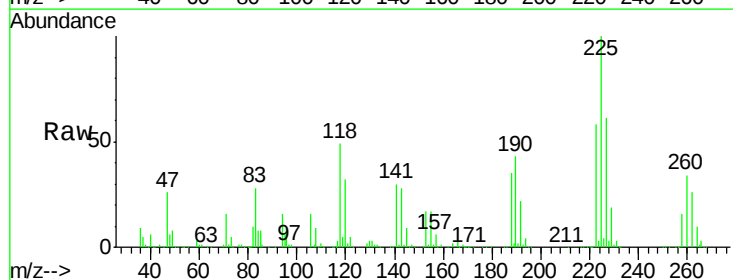
Tgt Ion:225 Resp: 918879

Ion Ratio Lower Upper

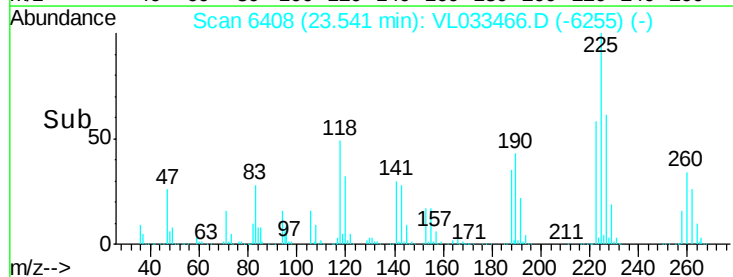
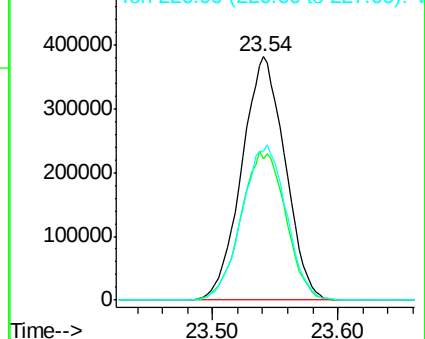
225 100

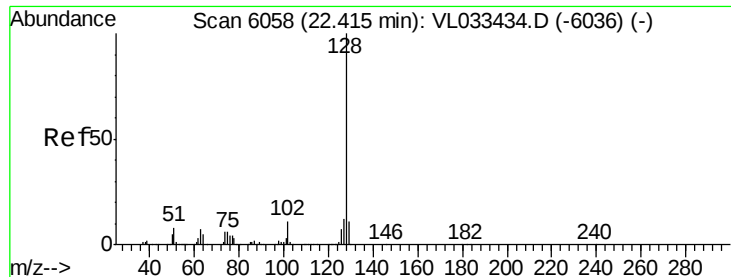
223 62.9 50.0 75.0

227 64.9 51.1 76.7



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.603 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

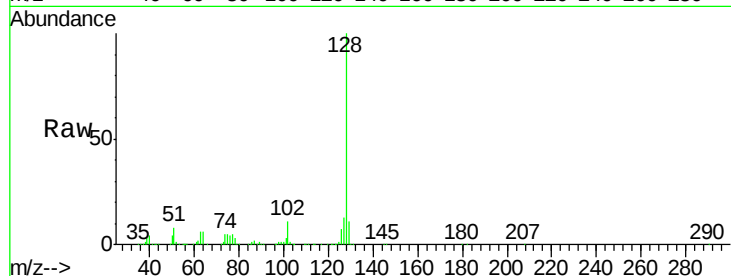
Tot Ion:128 Resp: 2832391

Ion Ratio Lower Upper

128 100

127 13.0 9.8 14.8

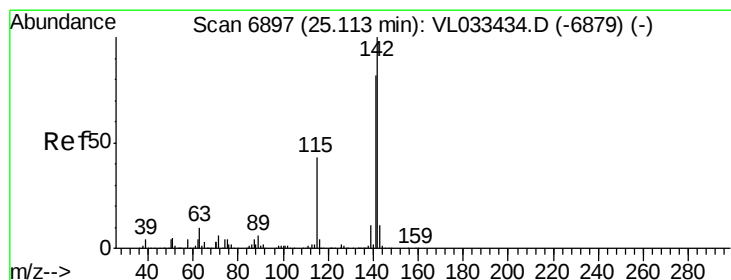
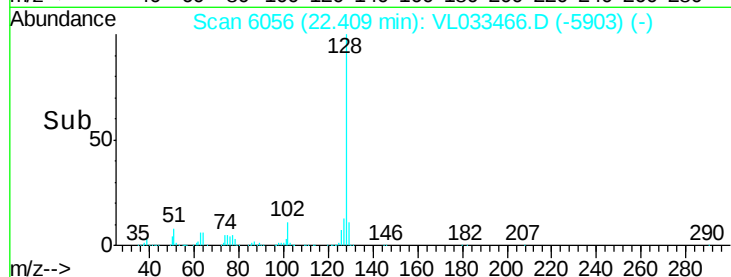
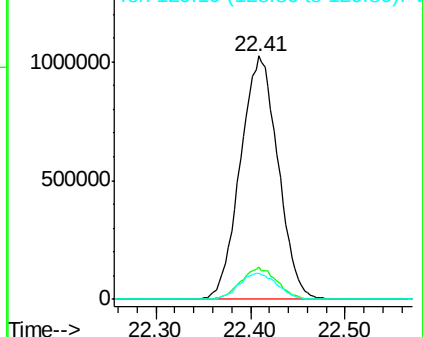
129 10.8 8.6 12.8



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 9.640 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

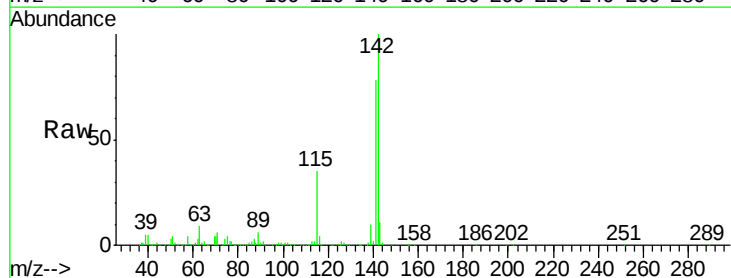
Tgt Ion:142 Resp: 789720

Ion Ratio Lower Upper

142 100

141 82.2 66.6 99.8

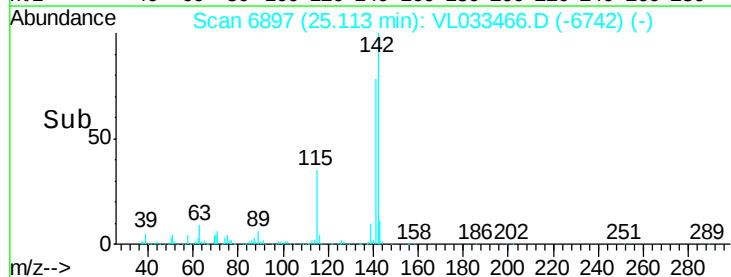
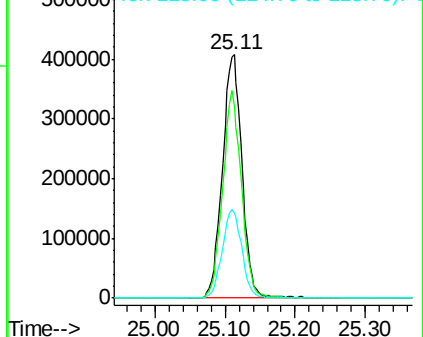
115 36.4 34.4 51.6



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

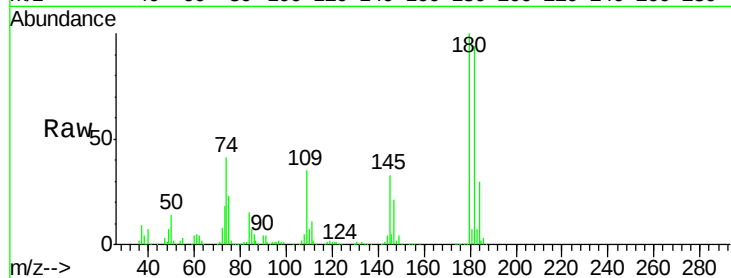




#81
 1,2,4-Trichlorobenzene
 Concen: 10.760 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 1456887
 Ion Ratio Lower Upper
 180 100
 182 95.3 77.0 115.4
 184 30.4 24.6 36.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

