

Data File : VL034702.D
Acq On : 27 Feb 2020 00:32
Operator : SY/AP
Sample : VSTDCCC010
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleID :
VSTDCCC010EC

Quant Time: Feb 27 07:32:31 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1008752	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	2118686	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	2241901	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1799835	9.79	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	1331526	8.367	ppbv	96
3) Chlorodifluoromethane	2.97	51	1060290	9.740	ppbv	99
4) Chloromethane	3.12	50	600564	9.855	ppbv	91
5) Vinyl Chloride	3.24	62	587266	9.823	ppbv	98
6) Bromomethane	3.46	94	348585	9.952	ppbv	97
7) Chloroethane	3.54	64	216801	9.768	ppbv	92
8) Dichlorotetrafluoroethane	3.17	85	1319970	9.378	ppbv	100
9) Propene	2.99	41	452136	9.936	ppbv	99
10) Heptane	8.16	43	1204467	10.283	ppbv	99
11) Trichlorofluoromethane	3.94	101	1359834	9.756	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	940951	9.577	ppbv	99
13) Ethanol	3.60	45	143870	10.008	ppbv	96
14) Bromoethene	3.73	108	412862	10.072	ppbv	99
15) Acetone	3.84	43	1110779	9.663	ppbv	99
16) 1,3-Butadiene	3.31	39	534890	10.052	ppbv	99
17) tert-Butyl alcohol	4.29	59	1076411	12.220	ppbv	100
18) 1,1-Dichloroethene	4.29	96	438074	9.932	ppbv	91
19) Isopropyl Alcohol	3.96	45	795932	11.625	ppbv	# 99
20) Methylene Chloride	4.34	84	376051	8.796	ppbv	92
21) Allyl Chloride	4.41	41	774361	10.182	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	435621	10.129	ppbv	95
23) Vinyl Acetate	5.09	43	1696728	10.858	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1212909	9.719	ppbv	99
25) Ethyl Acetate	5.70	43	2050496	10.077	ppbv	99
26) Hexane	5.71	57	919892	9.809	ppbv	98
27) Carbon Disulfide	4.56	76	1121234	10.532	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1425400	10.639	ppbv	99
29) Chloroform	5.77	83	1425959	9.543	ppbv	99
30) Cyclohexane	7.17	84	766010	10.539	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	955768	10.356	ppbv	93
32) 1,1,1-Trichloroethane	6.54	97	1394894	9.997	ppbv	99
34) 2-Butanone	5.26	43	1345546	10.090	ppbv	98
35) Carbon Tetrachloride	7.05	117	1420601	10.012	ppbv	100
36) Benzene	6.92	78	1814578	9.916	ppbv	96
37) 1,2-Dichloroethane	6.34	62	1154933	10.012	ppbv	100
38) Trichloroethene	7.88	130	674804	9.567	ppbv	97
39) 1,2-Dichloropropane	7.65	63	734479	10.089	ppbv	96
40) 1,4-Dioxane	7.87	88	162250	6.554	ppbv	# 1
41) Tetrahydrofuran	6.07	42	746169	10.601	ppbv	100
42) Bromodichloromethane	7.83	83	1522807	10.084	ppbv	98
43) Methyl Methacrylate	8.05	69	830650	10.792	ppbv	98

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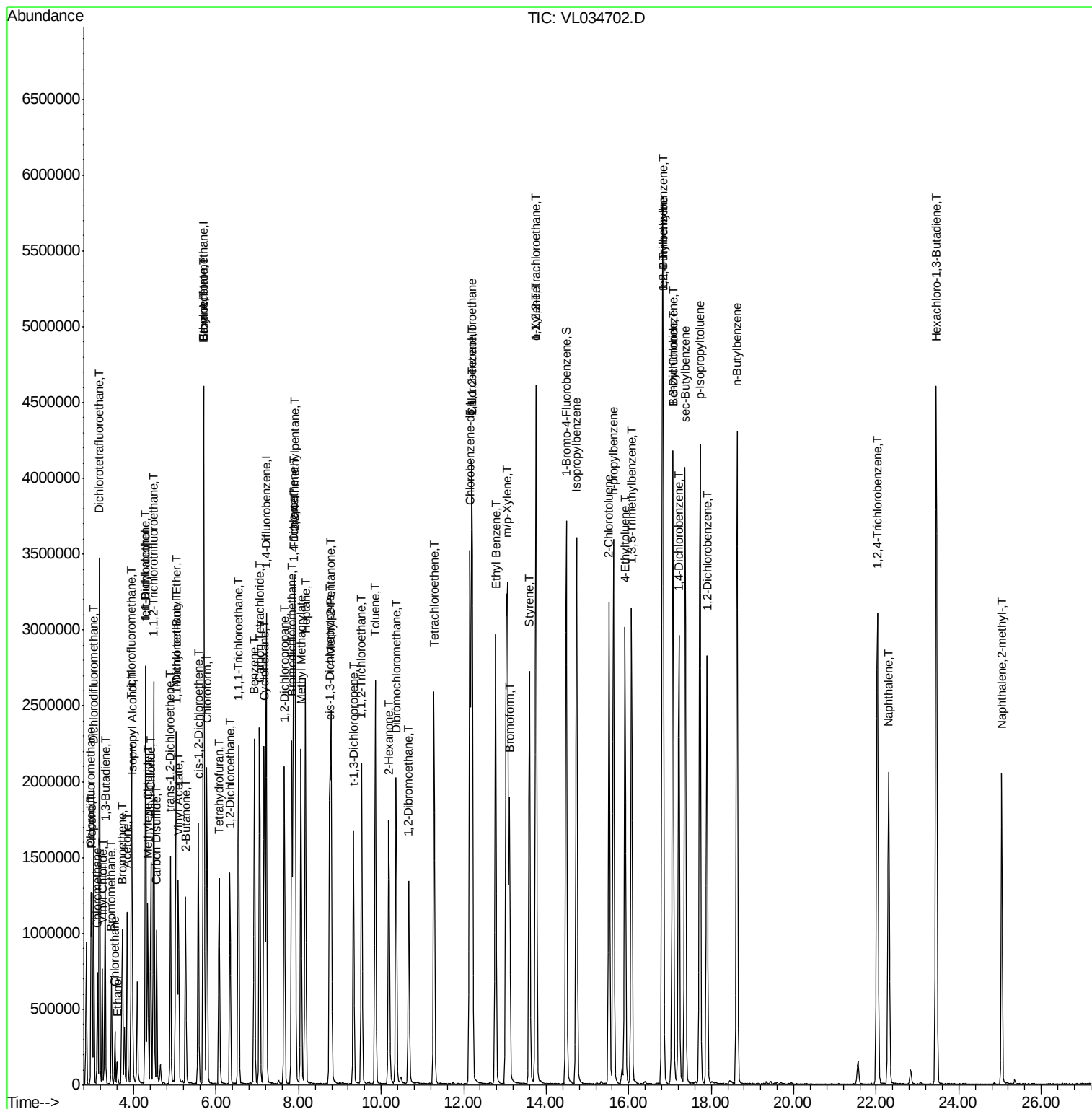
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3150892	9.852	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	989420	11.780	ppbv	98
46) cis-1,3-Dichloropropene	8.75	75	1139450	11.312	ppbv	99
47) 1,1,2-Trichloroethane	9.53	97	732737	9.811	ppbv	99
48) Dibromochloromethane	10.36	129	1195023	10.290	ppbv	98
49) Bromoform	13.11	173	1026866	10.198	ppbv	100
50) 4-Methyl-2-Pentanone	8.78	43	1983354	10.500	ppbv	100
51) 2-Hexanone	10.18	43	1613584	10.855	ppbv	99
52) Tetrachloroethene	11.28	164	621430	9.265	ppbv	97
53) Toluene	9.86	91	2053044	10.549	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1110105	9.963	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.19	131	900846	9.435	ppbv	98
57) Chlorobenzene	12.21	112	1487068	8.974	ppbv	98
58) Ethyl Benzene	12.78	91	1210924	4.464	ppbv	96
59) m/p-Xylene	13.06	91	2393952	10.119	ppbv #	39
60) o-Xylene	13.76	91	2206991	9.401	ppbv	100
61) Styrene	13.60	104	1571671	10.422	ppbv	98
62) Isopropylbenzene	14.74	105	3189885	9.315	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.74	83	1555596	8.502	ppbv	100
64) n-propylbenzene	15.63	120	830760	9.410	ppbv	94
65) tert-Butylbenzene	16.82	119	2749525	9.298	ppbv	99
66) Benzyl Chloride	17.07	91	1250709	11.339	ppbv	99
67) sec-Butylbenzene	17.37	105	3958470	9.303	ppbv	99
69) p-Isopropyltoluene	17.73	119	3277047	9.356	ppbv	100
70) n-Butylbenzene	18.63	91	3574277	9.371	ppbv	100
71) 2-Chlorotoluene	15.52	91	2489676	9.387	ppbv	100
72) 4-Ethyltoluene	15.91	105	2559767	9.797	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2428624	9.662	ppbv	96
74) 1,2,4-Trimethylbenzene	16.84	105	2548097	9.179	ppbv	93
75) 1,3-Dichlorobenzene	17.07	146	1434876	8.955	ppbv	100
76) 1,4-Dichlorobenzene	17.22	146	1445321	9.015	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1426121	9.206	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1267928	9.400	ppbv	99
79) Naphthalene	22.30	128	2562998	10.491	ppbv	98
80) Naphthalene,2-methyl-	25.05	142	1107501	14.698	ppbv	97
81) 1,2,4-Trichlorobenzene	22.03	180	1450242	9.946	ppbv	99

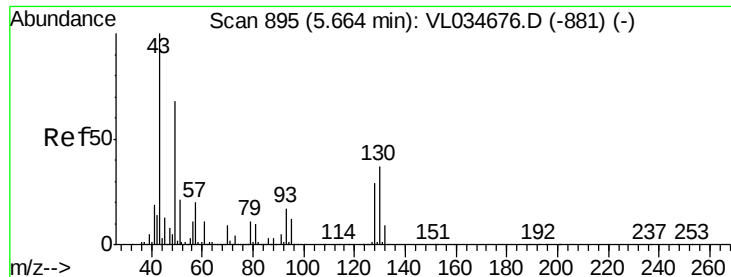
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

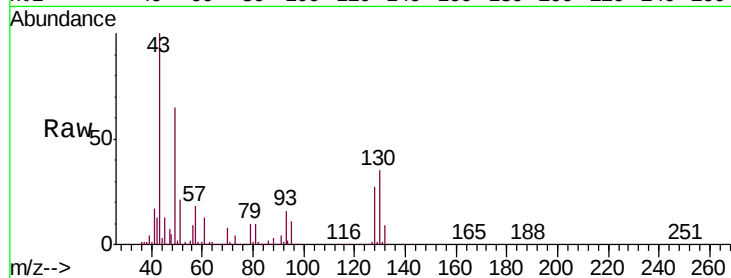
Tgt Ion: 49 Resp: 1008752

Ion Ratio Lower Upper

49 100

128 42.7 21.6 65.0

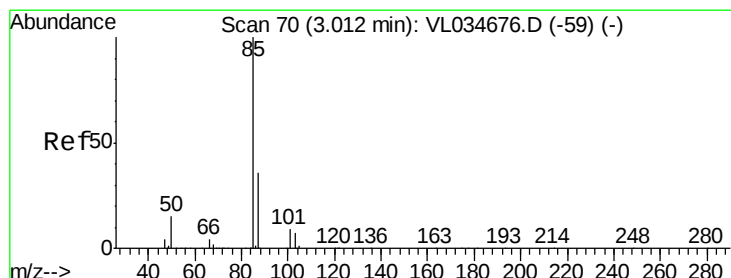
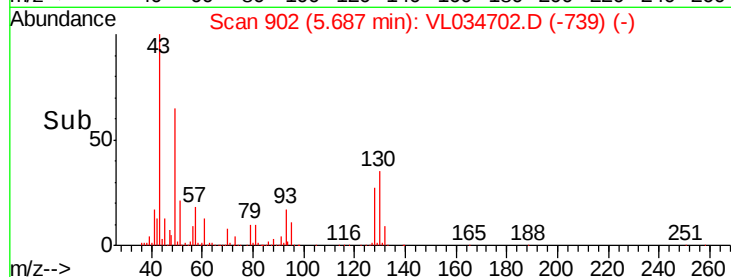
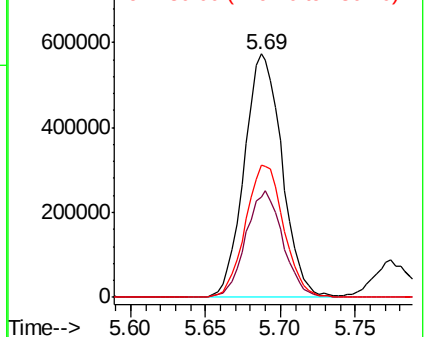
130 55.3 27.7 83.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.367 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL034702.D

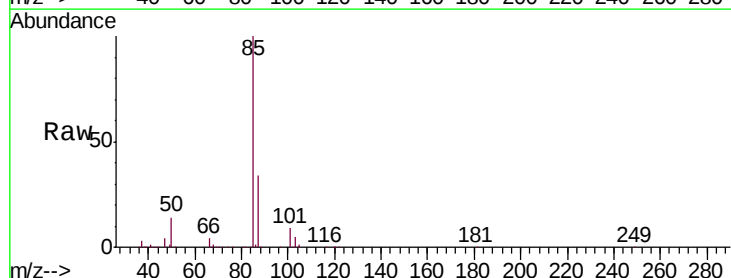
Acq: 27 Feb 2020 00:32

Tgt Ion: 85 Resp: 1331526

Ion Ratio Lower Upper

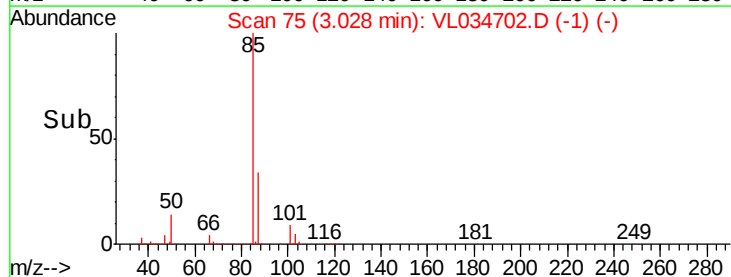
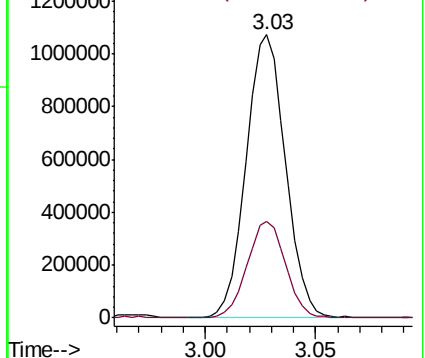
85 100

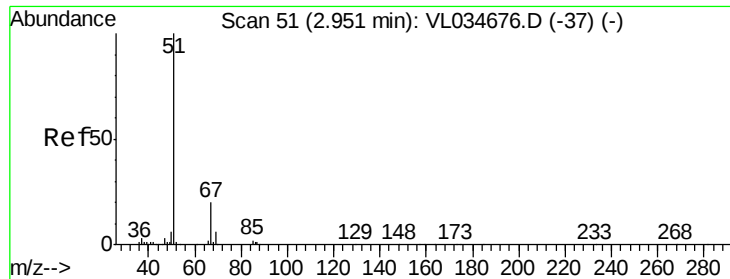
87 34.2 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

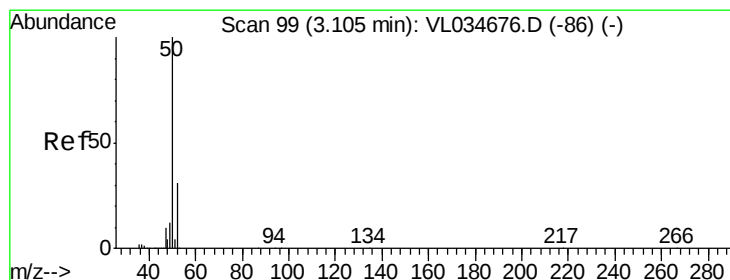
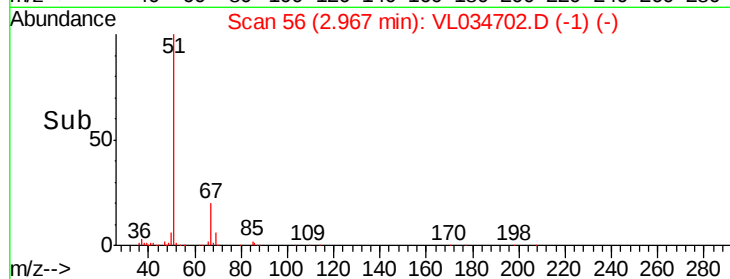
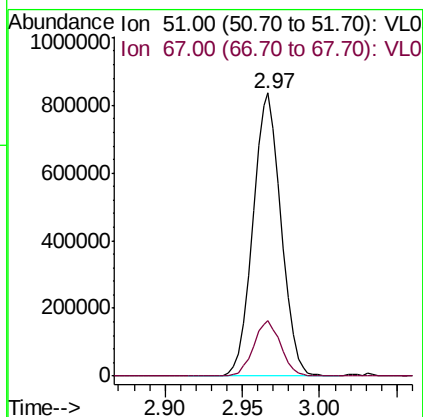
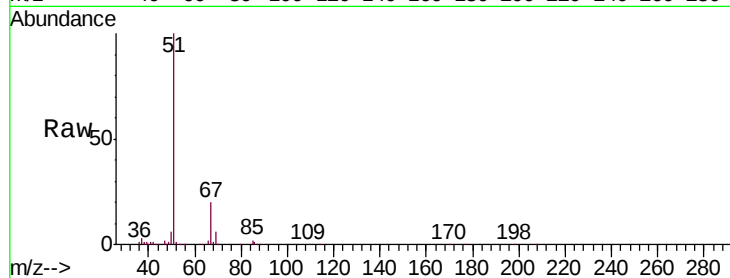




#3
 Chlorodifluoromethane
 Concen: 9.740 ppbv
 RT: 2.97 min Scan# 56
 Delta R.T. 0.02 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

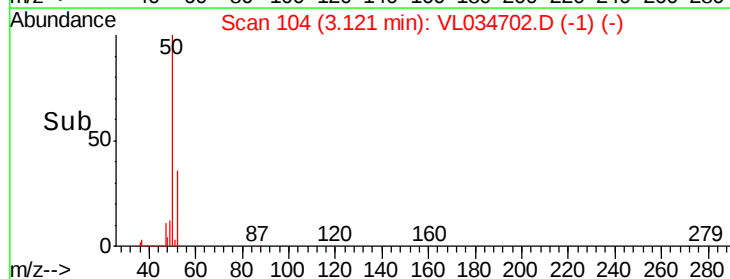
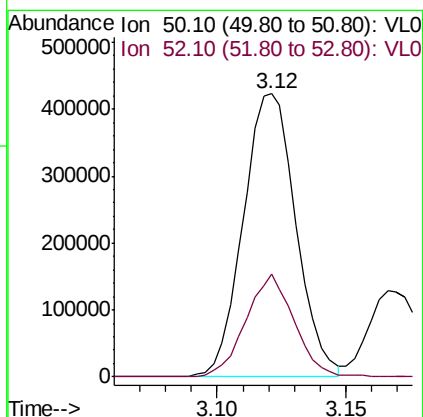
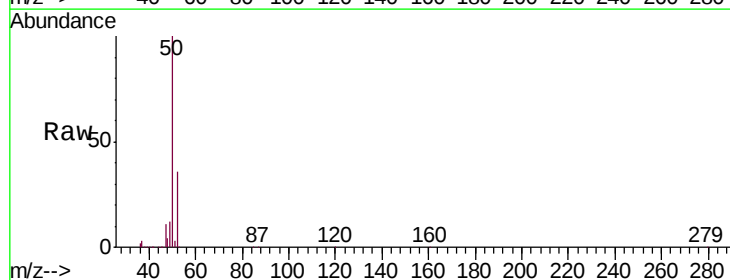
Instrument :
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 VSTDCCC010EC

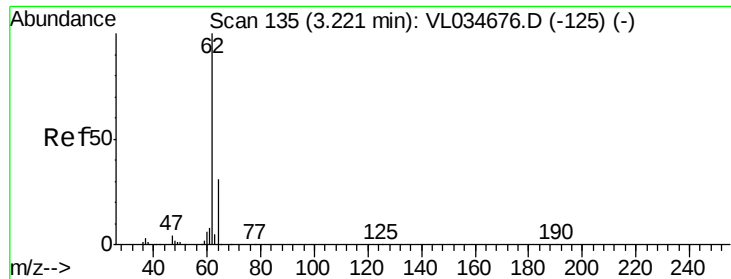
Tgt Ion: 51 Resp: 1060290
 Ion Ratio Lower Upper
 51 100
 67 19.1 15.5 23.3



#4
 Chloromethane
 Concen: 9.855 ppbv
 RT: 3.12 min Scan# 104
 Delta R.T. 0.02 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Tgt Ion: 50 Resp: 600564
 Ion Ratio Lower Upper
 50 100
 52 36.2 25.0 37.4





#5

Vinyl Chloride

Concen: 9.823 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

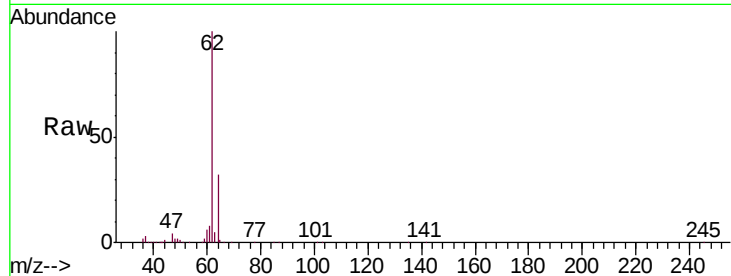
VSTDCCC010EC

Tgt Ion: 62 Resp: 587266

Ion Ratio Lower Upper

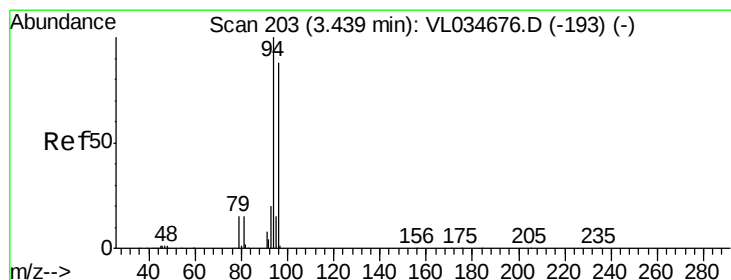
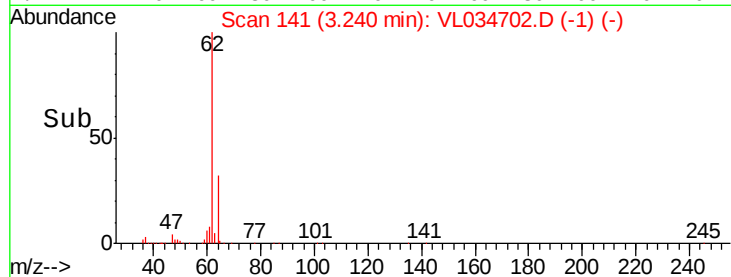
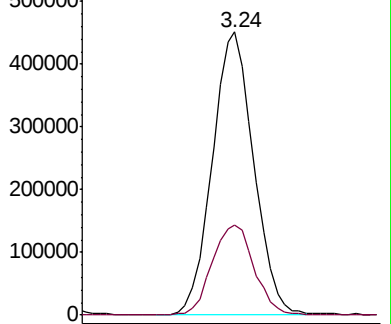
62 100

64 32.0 24.7 37.1



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.952 ppbv

RT: 3.46 min Scan# 209

Delta R.T. 0.02 min

Lab File: VL034702.D

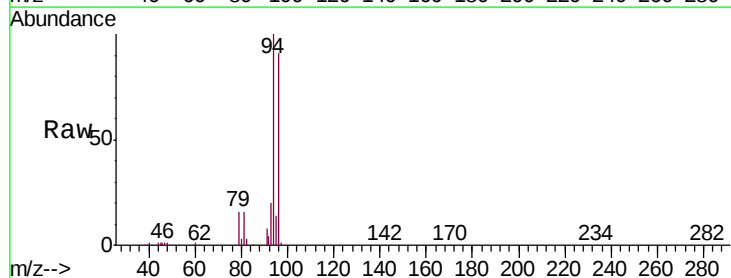
Acq: 27 Feb 2020 00:32

Tgt Ion: 94 Resp: 348585

Ion Ratio Lower Upper

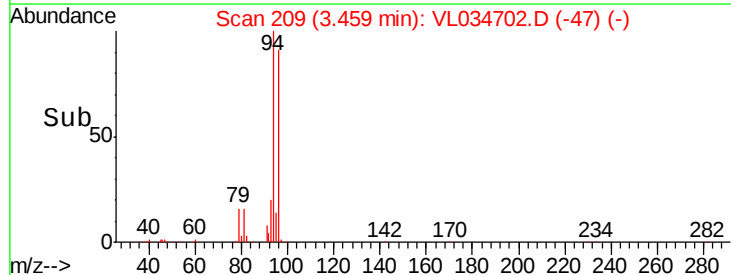
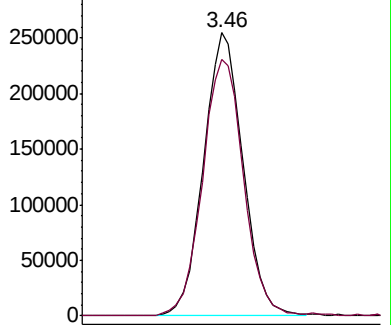
94 100

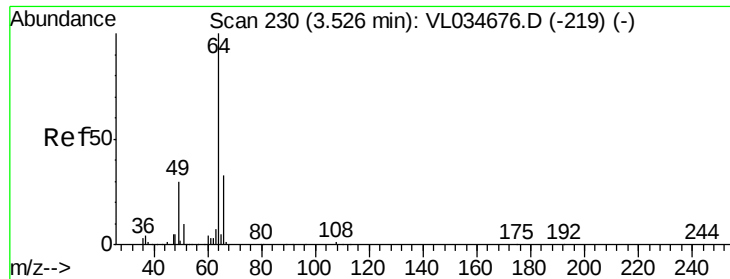
96 90.5 70.5 105.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.768 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.02 min

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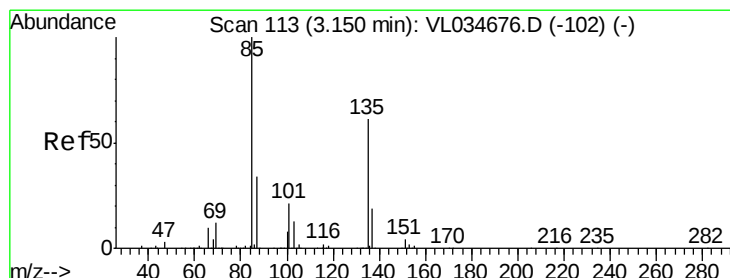
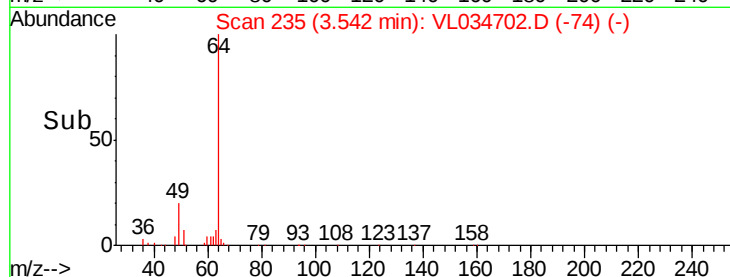
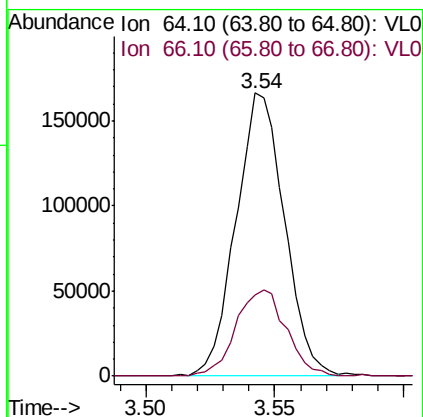
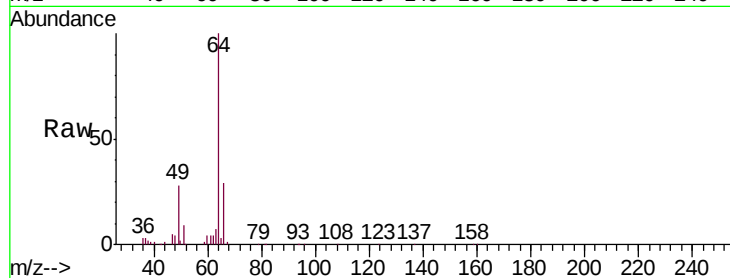
VSTDCCC010EC

Tgt Ion: 64 Resp: 216801

Ion Ratio Lower Upper

64 100

66 28.6 26.7 40.1



#8

Dichlorotetrafluoroethane

Concen: 9.378 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.02 min

Lab File: VL034702.D

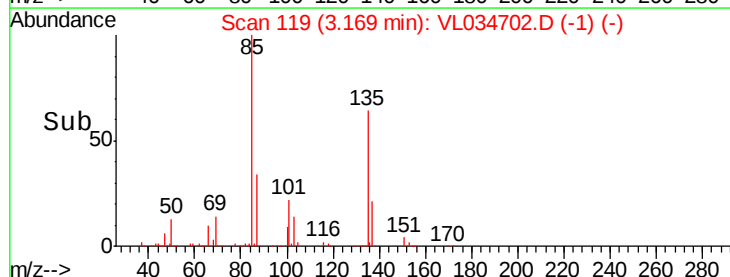
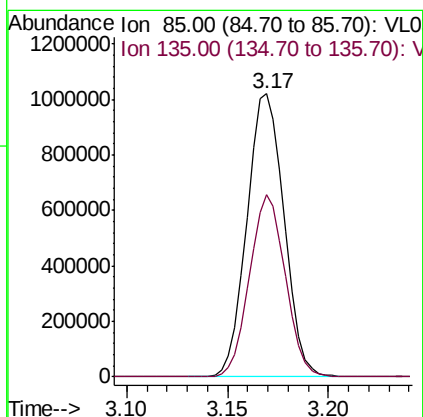
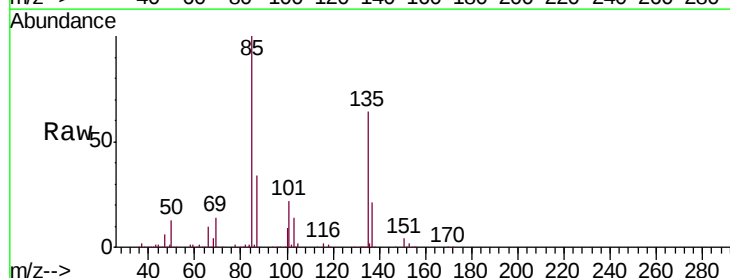
Acq: 27 Feb 2020 00:32

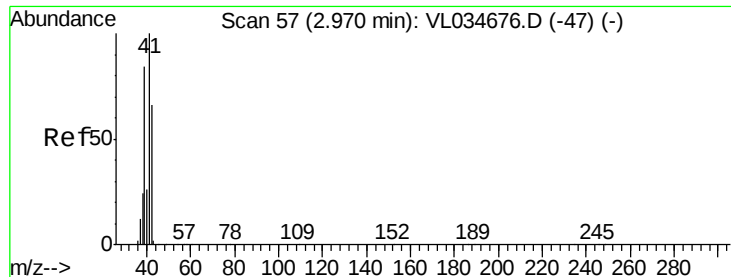
Tgt Ion: 85 Resp: 1319970

Ion Ratio Lower Upper

85 100

135 62.1 49.8 74.6





#9

Propene

Concen: 9.936 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.02 min

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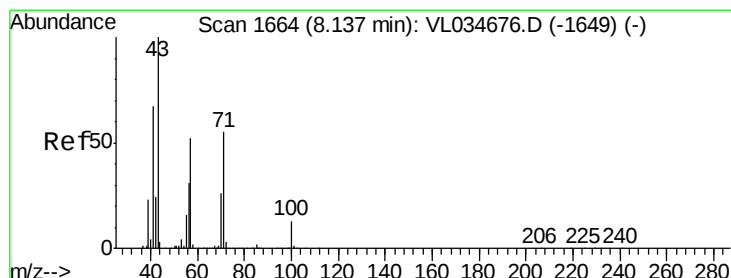
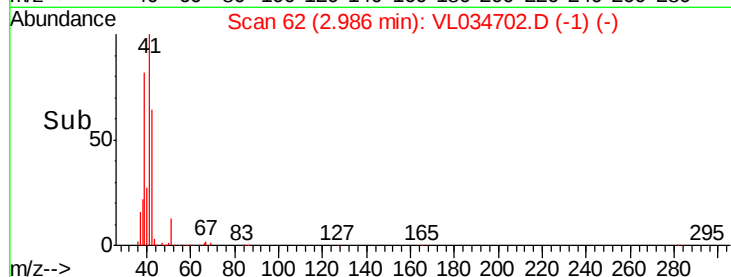
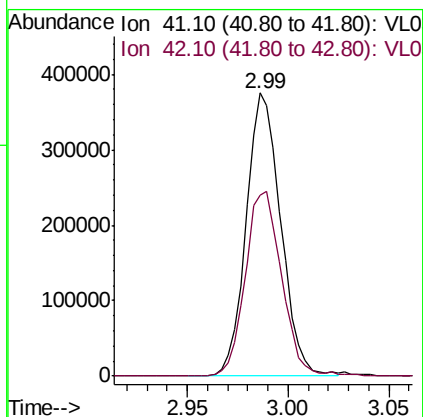
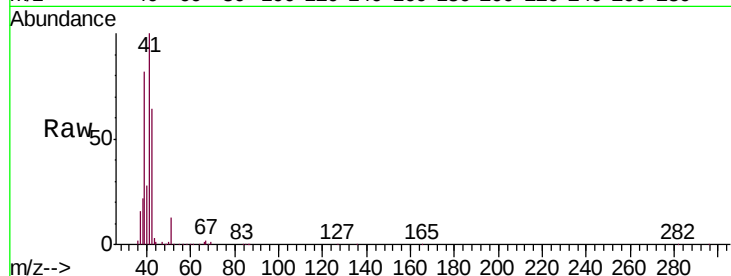
VSTDCCC010EC

Tgt Ion: 41 Resp: 452136

Ion Ratio Lower Upper

41 100

42 69.1 54.9 82.3



#10

Heptane

Concen: 10.283 ppbv

RT: 8.16 min Scan# 1672

Delta R.T. 0.03 min

Lab File: VL034702.D

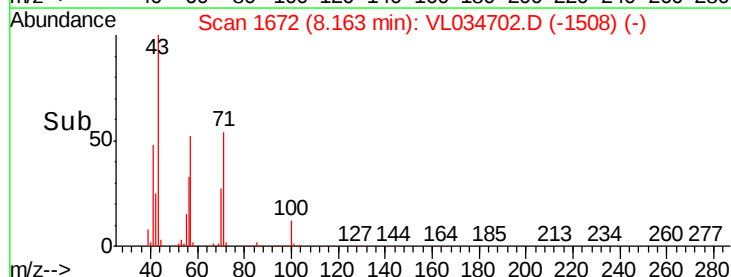
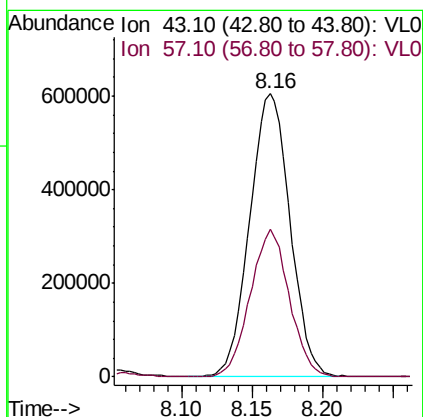
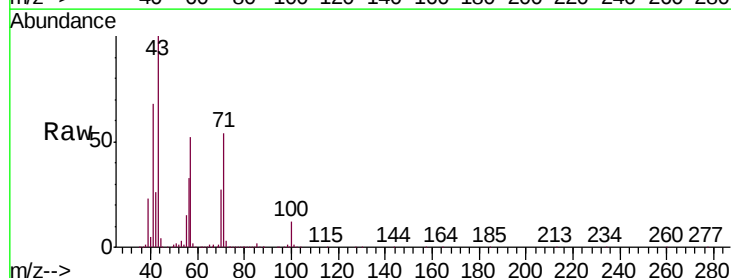
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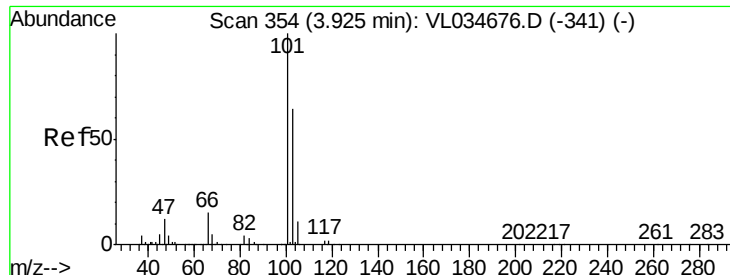
Tgt Ion: 43 Resp: 1204467

Ion Ratio Lower Upper

43 100

57 50.6 41.0 61.6

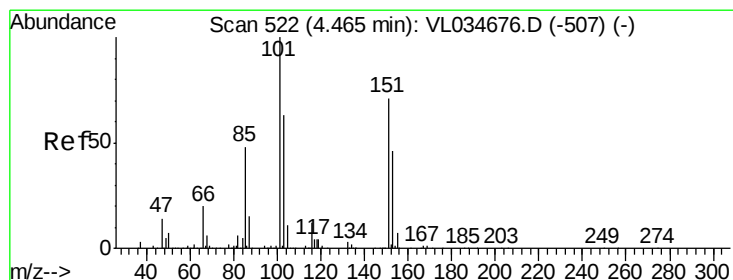
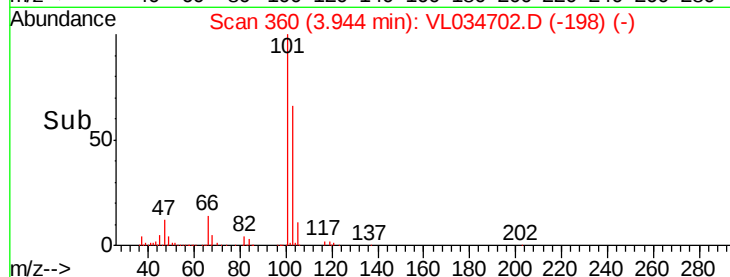
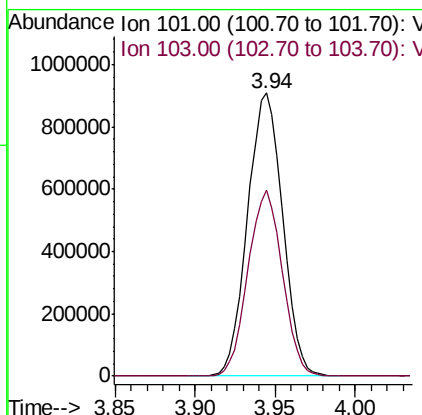
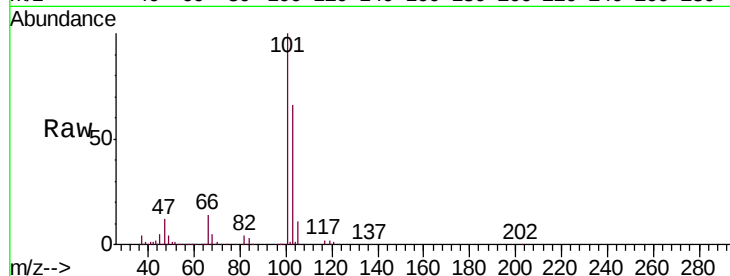




#11
 Trichlorofluoromethane
 Concen: 9.756 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.02 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

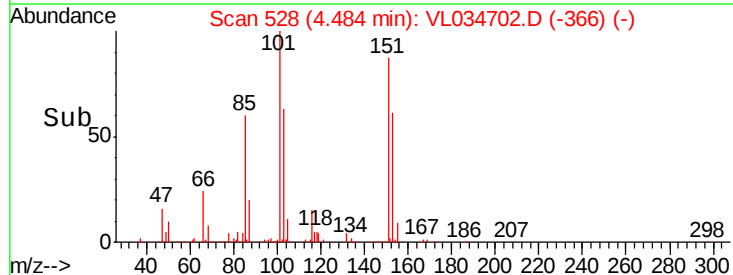
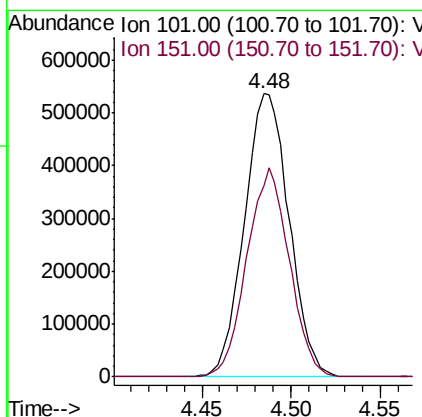
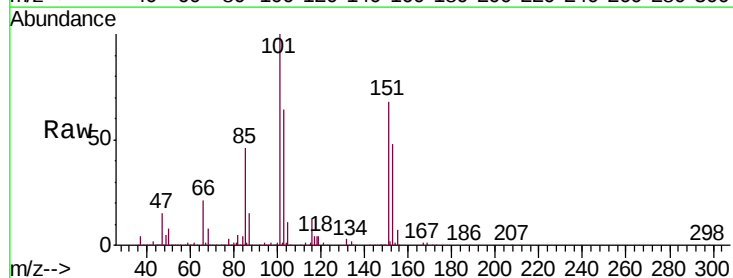
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

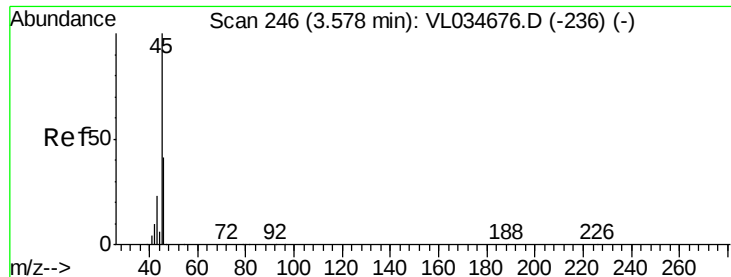
Tgt Ion:101 Resp: 1359834
 Ion Ratio Lower Upper
 101 100
 103 65.9 51.2 76.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.577 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T. 0.02 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Tgt Ion:101 Resp: 940951
 Ion Ratio Lower Upper
 101 100
 151 70.4 55.8 83.6





#13

Ethanol

Concen: 10.008 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

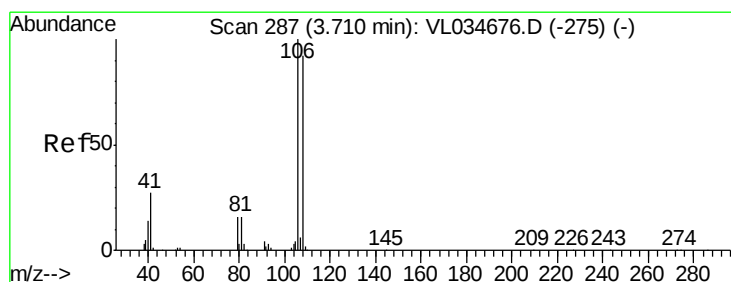
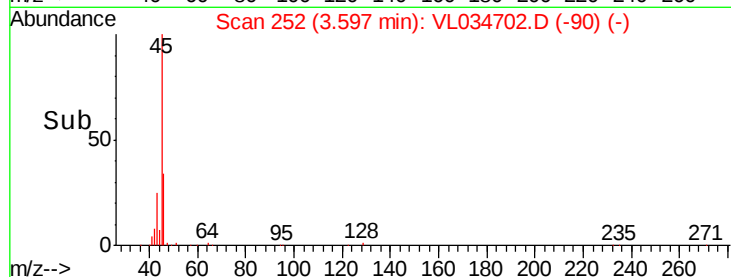
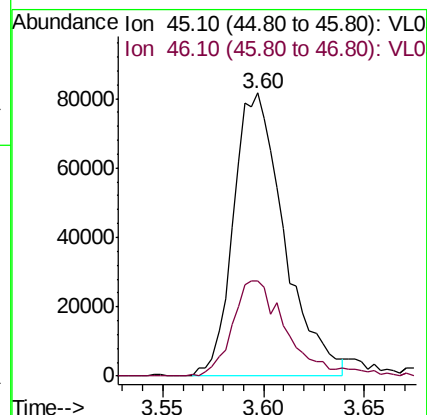
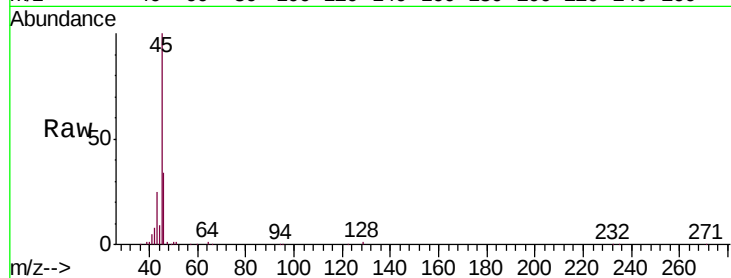
VSTDCCC010EC

Tgt Ion: 45 Resp: 143870

Ion Ratio Lower Upper

45 100

46 36.2 15.4 61.4



#14

Bromoethene

Concen: 10.072 ppbv

RT: 3.73 min Scan# 293

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

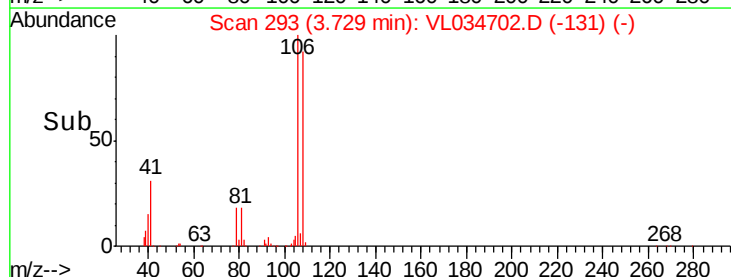
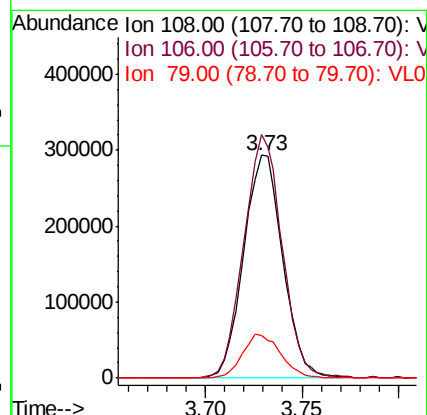
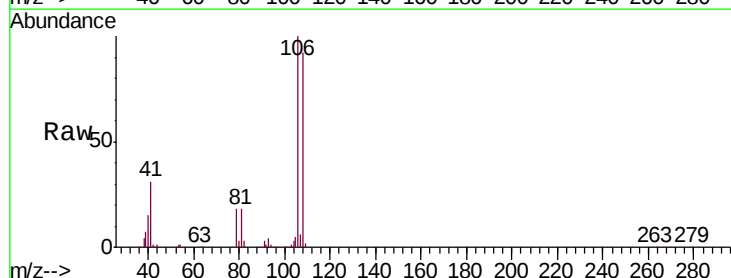
Tgt Ion: 108 Resp: 412862

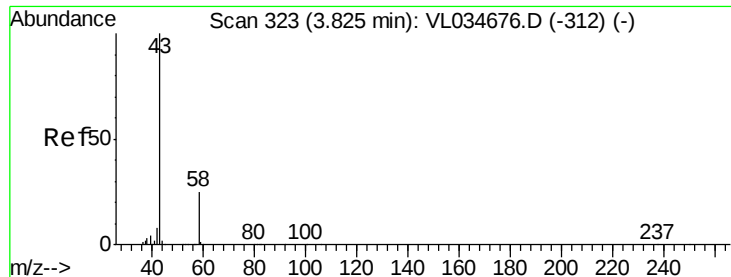
Ion Ratio Lower Upper

108 100

106 107.6 86.7 130.1

79 19.2 15.0 22.6





#15

Acetone

Concen: 9.663 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

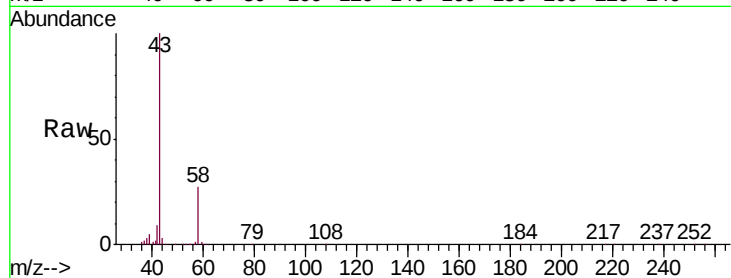
VSTDCCC010EC

Tgt Ion: 43 Resp: 1110779

Ion Ratio Lower Upper

43 100

58 27.2 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

800000

600000

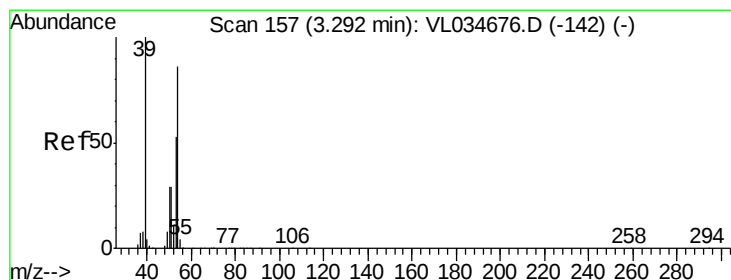
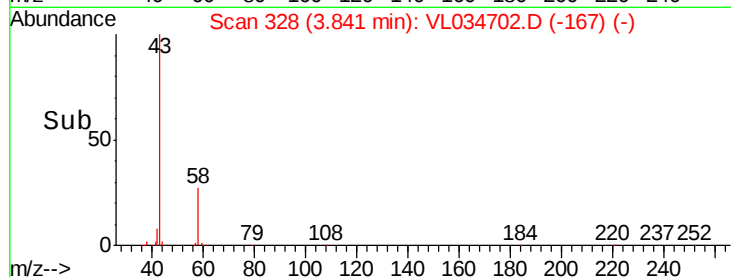
400000

200000

0

3.80 3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 10.052 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.02 min

Lab File: VL034702.D

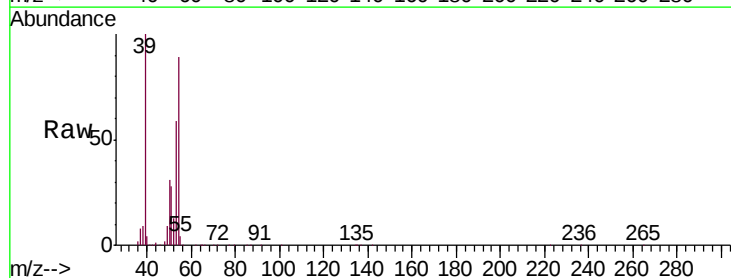
Acq: 27 Feb 2020 00:32

Tgt Ion: 39 Resp: 534890

Ion Ratio Lower Upper

39 100

54 84.5 67.0 100.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.31

400000

300000

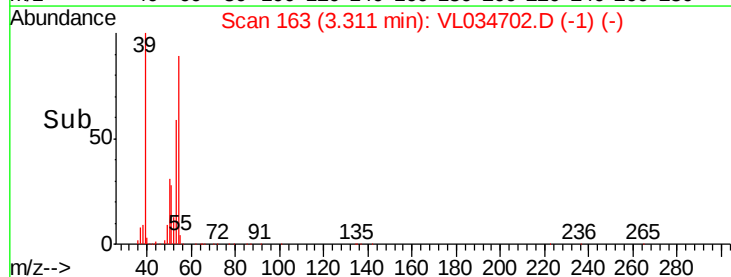
200000

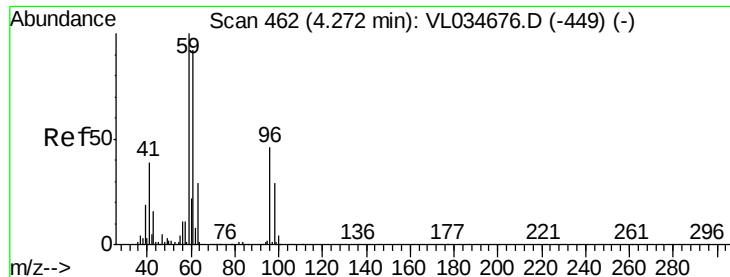
100000

0

3.25 3.30 3.35

Time-->



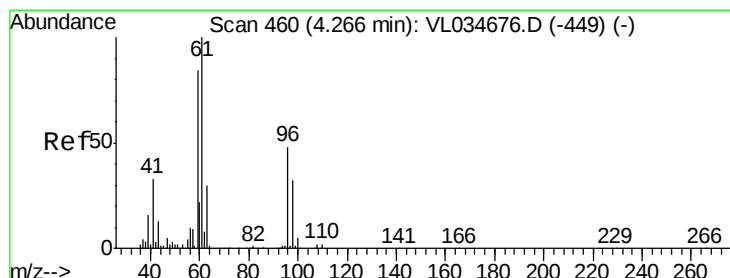
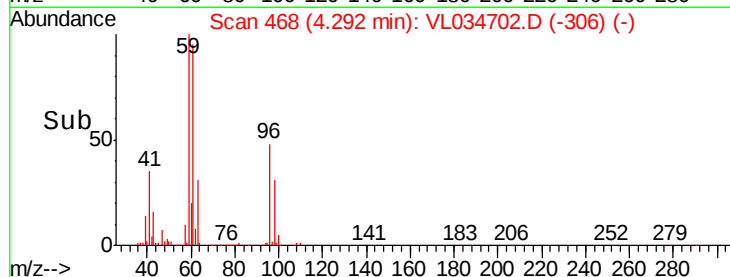
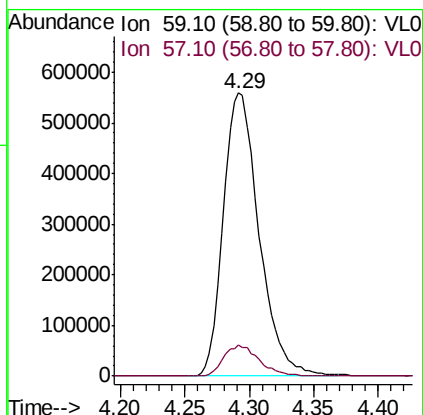
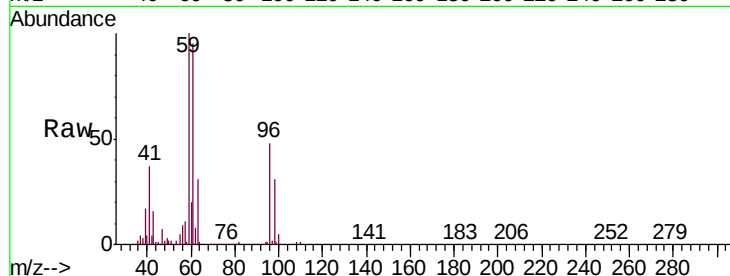


#17

tert-Butyl alcohol
Concen: 12.220 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.02 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

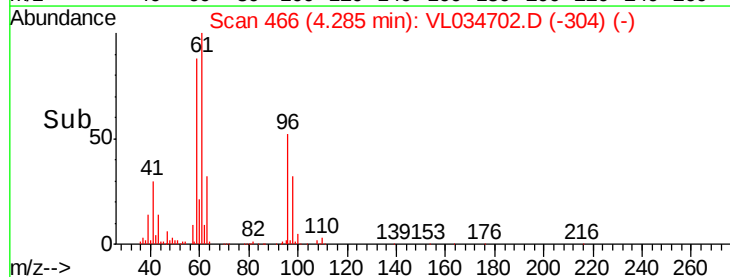
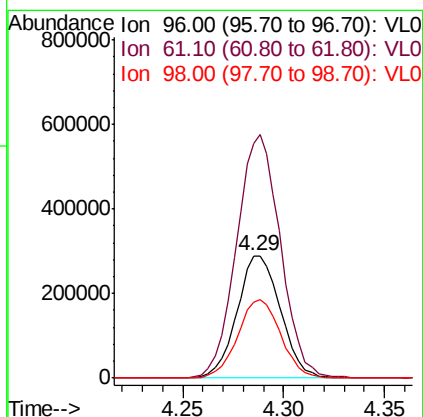
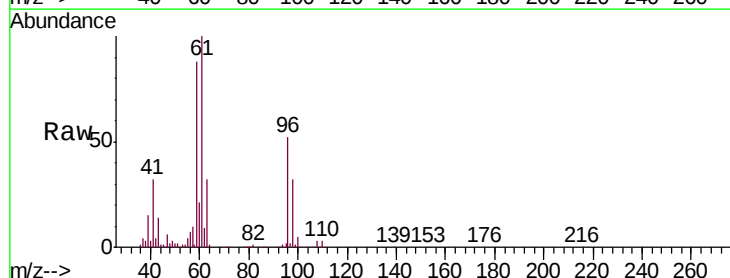
Tgt Ion: 59 Resp: 1076411
Ion Ratio Lower Upper
59 100
57 10.9 8.8 13.2

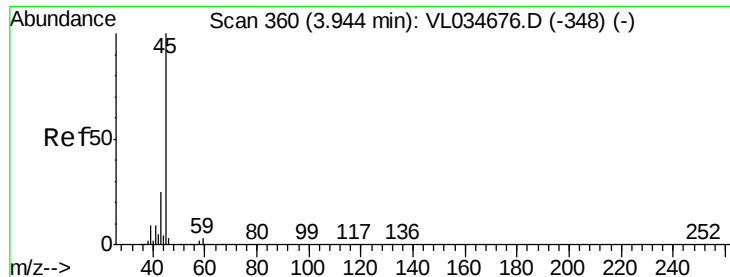


#18

1,1-Dichloroethene
Concen: 9.932 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.02 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

Tgt Ion: 96 Resp: 438074
Ion Ratio Lower Upper
96 100
61 190.8 165.1 247.7
98 61.9 52.7 79.1





#19

Isopropyl Alcohol

Concen: 11.625 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

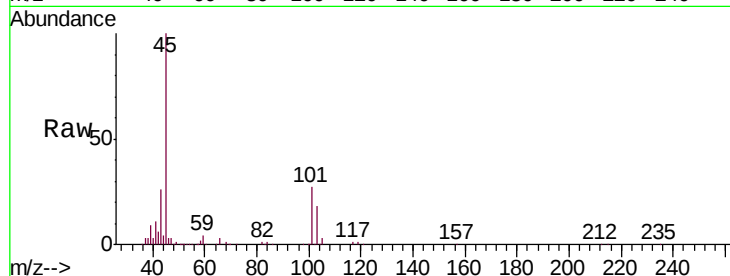
VSTDCCC010EC

Tgt Ion: 45 Resp: 795932

Ion Ratio Lower Upper

45 100

58 1.7 1.8 2.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

500000

400000

300000

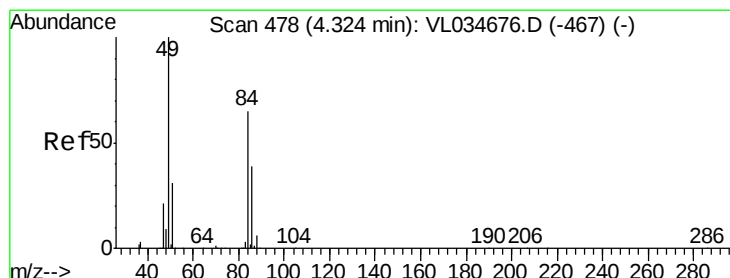
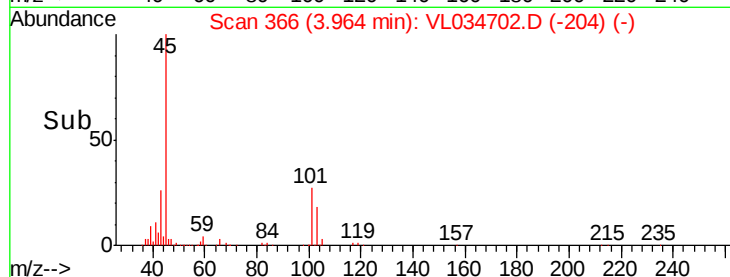
200000

100000

0

Time-->

3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 8.796 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Tgt Ion: 84 Resp: 376051

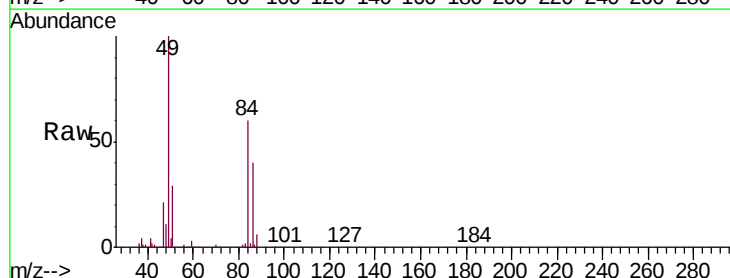
Ion Ratio Lower Upper

84 100

49 165.1 122.8 184.2

51 48.3 38.6 58.0

86 67.1 47.7 71.5



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

600000

500000

400000

300000

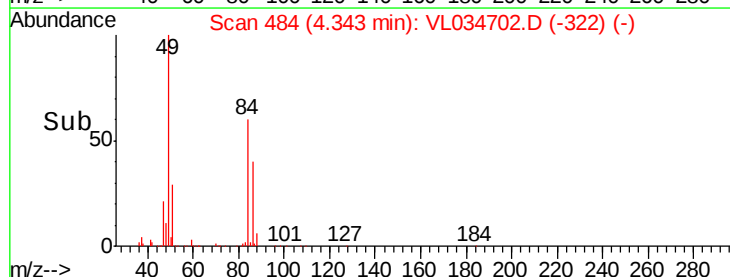
200000

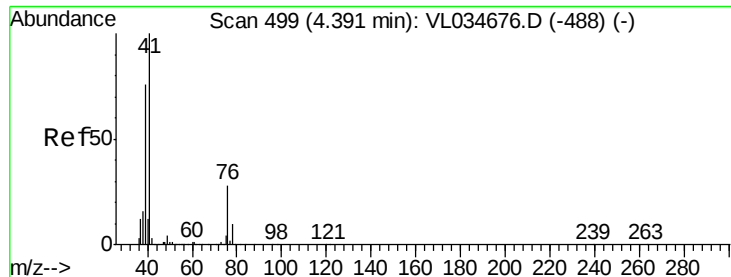
100000

0

Time-->

4.30 4.35 4.40





#21

Allyl Chloride

Concen: 10.182 ppbv

RT: 4.41 min Scan# 505

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

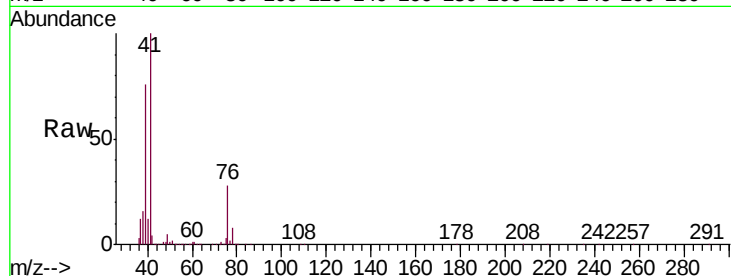
Tgt Ion: 41 Resp: 774361

Ion Ratio Lower Upper

41 100

76 28.3 22.8 34.2

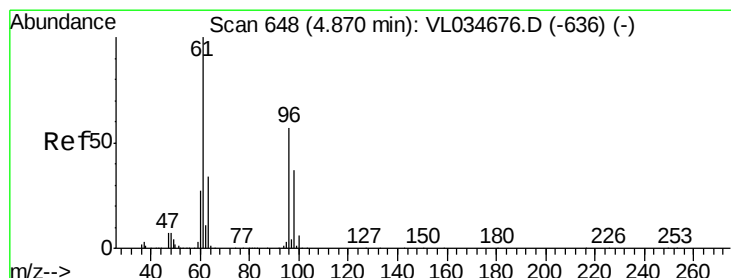
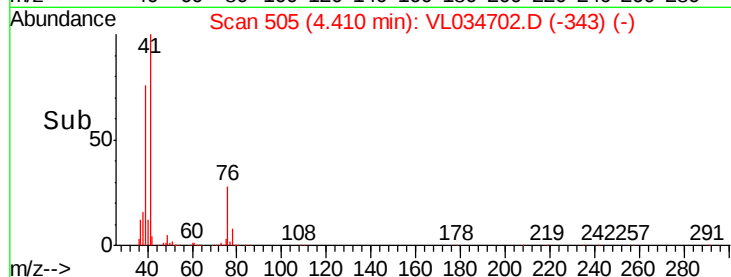
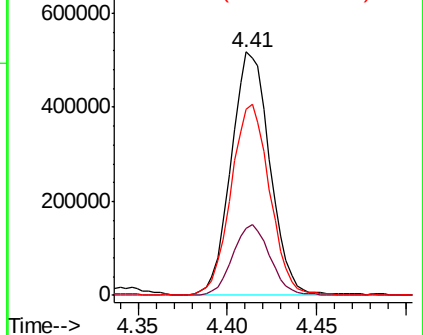
39 79.2 61.7 92.5



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: 10.129 ppbv

RT: 4.90 min Scan# 656

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

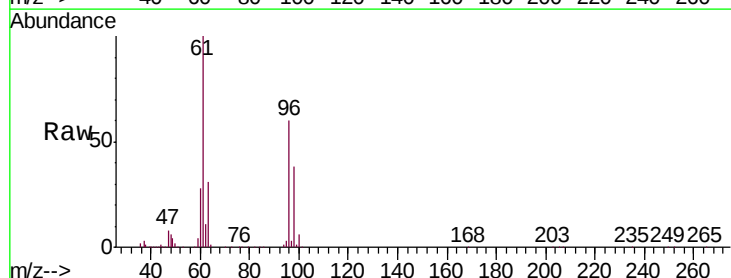
Tgt Ion: 96 Resp: 435621

Ion Ratio Lower Upper

96 100

61 166.0 139.4 209.0

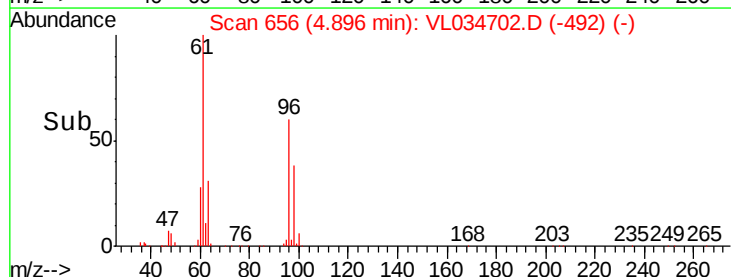
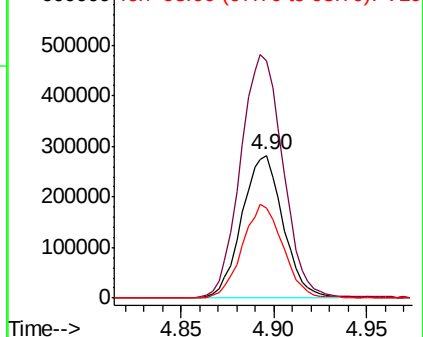
98 63.4 51.3 76.9

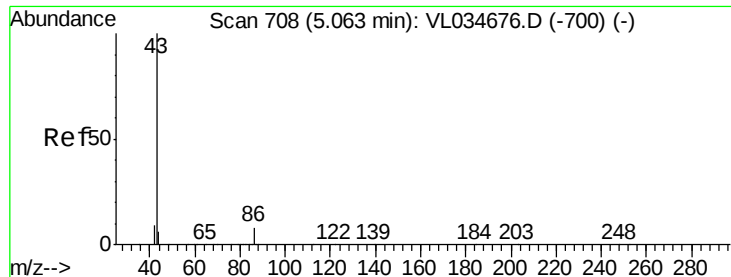


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.858 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1696728

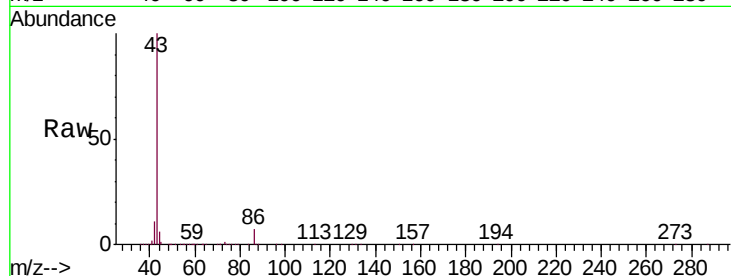
Ion Ratio Lower Upper

43 100

86 6.8 6.0 9.0

42 10.6 8.0 12.0

44 5.4 4.5 6.7

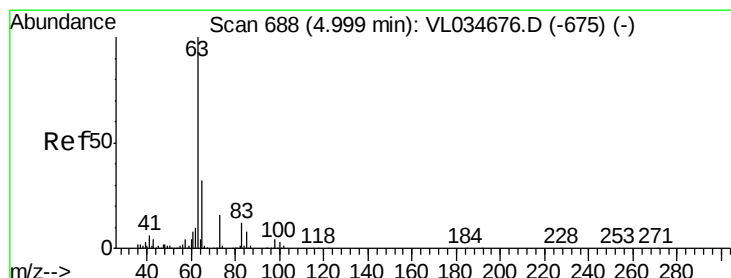
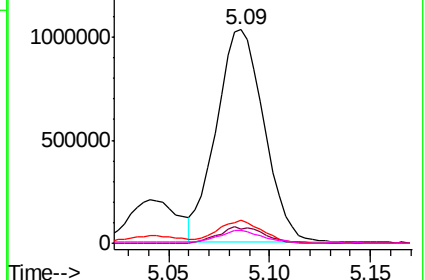
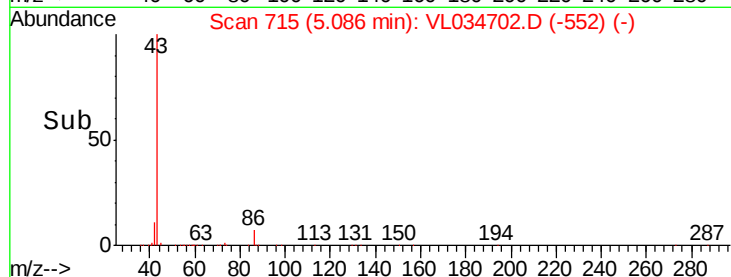


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.719 ppbv

RT: 5.02 min Scan# 695

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

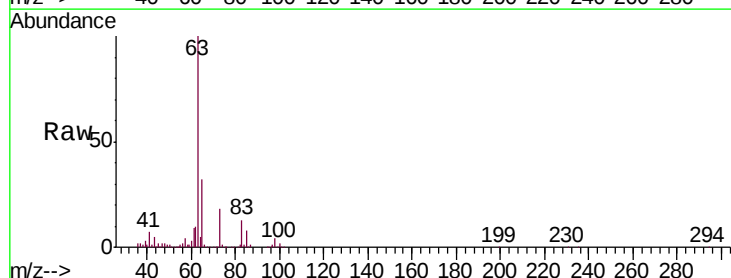
Tgt Ion: 63 Resp: 1212909

Ion Ratio Lower Upper

63 100

98 4.5 2.1 6.2

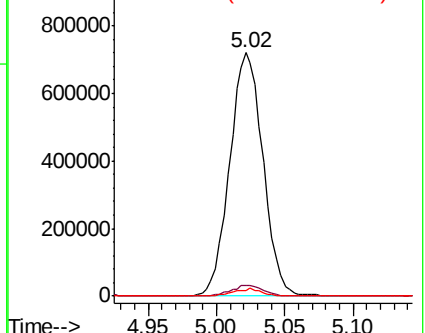
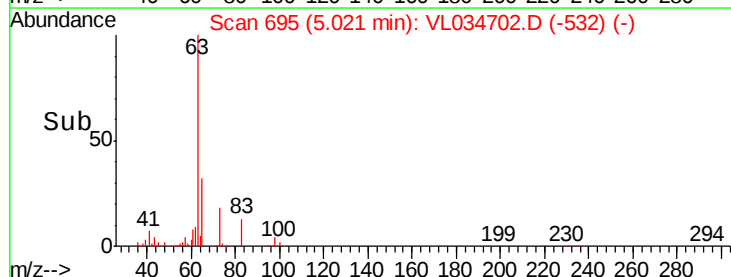
100 2.4 1.4 4.0

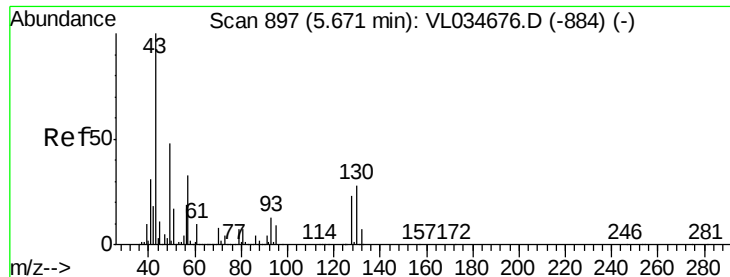


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.077 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 43 Resp: 2050496

Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.2	12.4
61	9.9	7.8	11.6
70	7.5	6.1	9.1

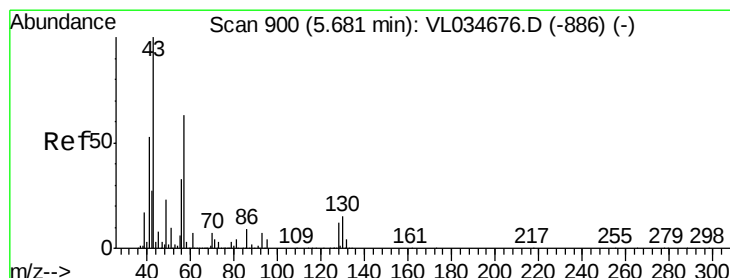
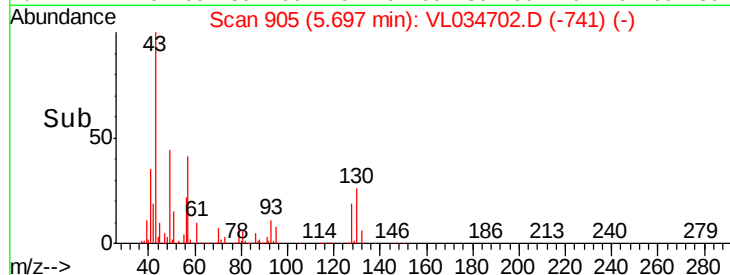
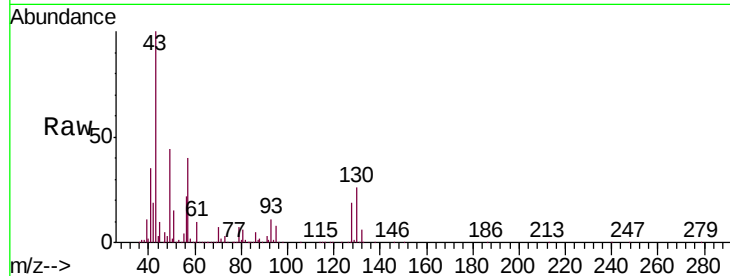
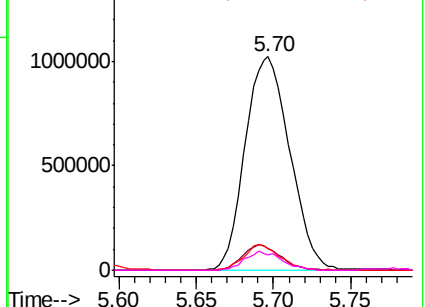
Abundance

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: 9.809 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Tgt Ion: 57 Resp: 919892

Ion	Ratio	Lower	Upper
57	100		
41	88.9	70.3	105.5
43	225.2	177.0	265.4
56	53.5	42.6	64.0

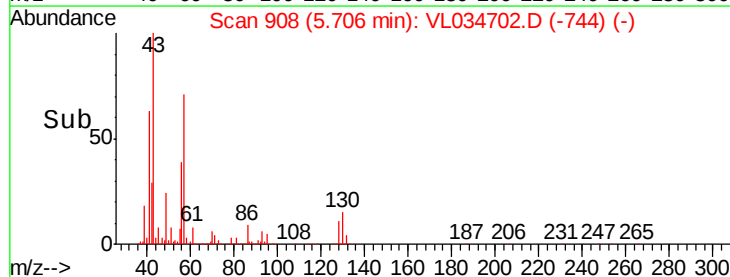
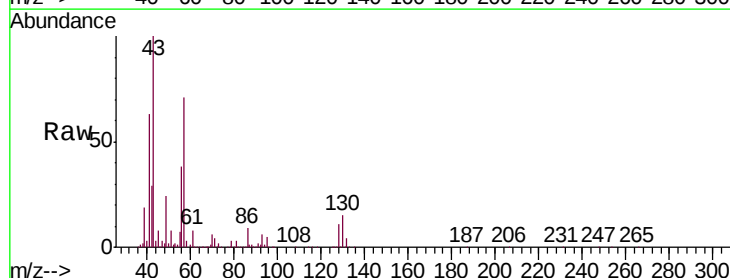
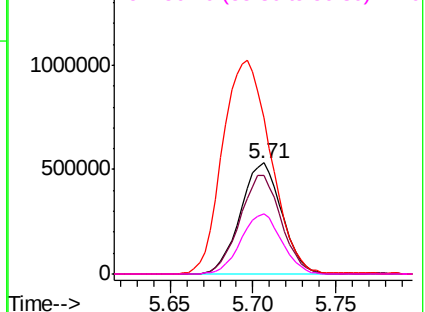
Abundance

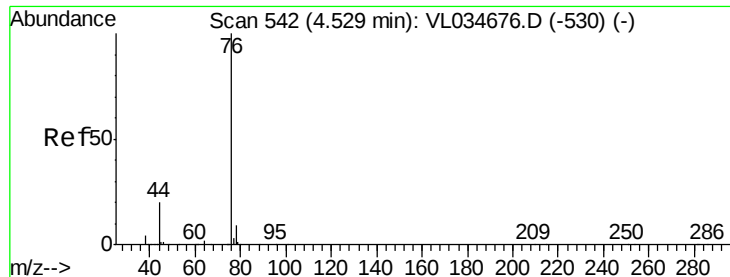
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.532 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

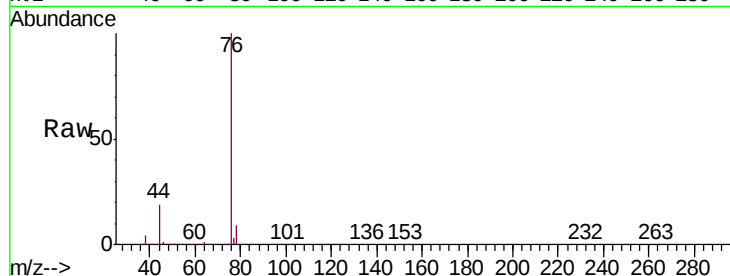
Tgt Ion: 76 Resp: 1121234

Ion Ratio Lower Upper

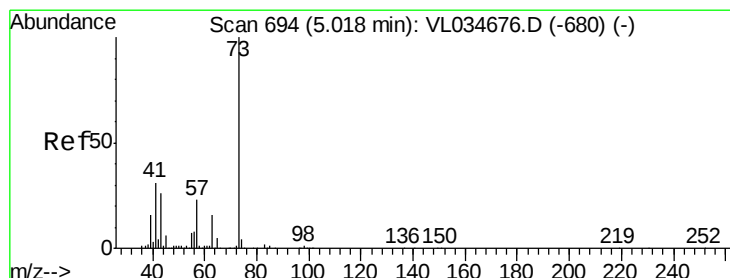
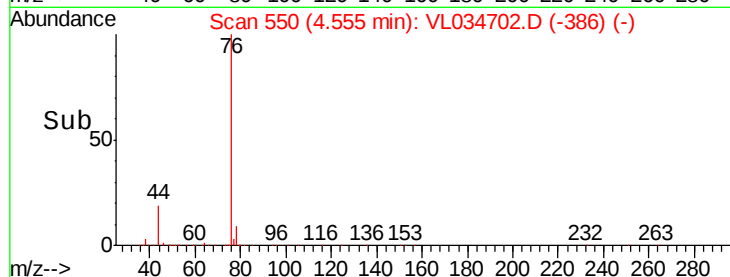
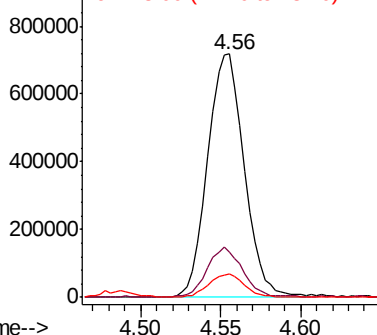
76 100

44 19.8 15.3 22.9

78 9.2 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.639 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.02 min

Lab File: VL034702.D

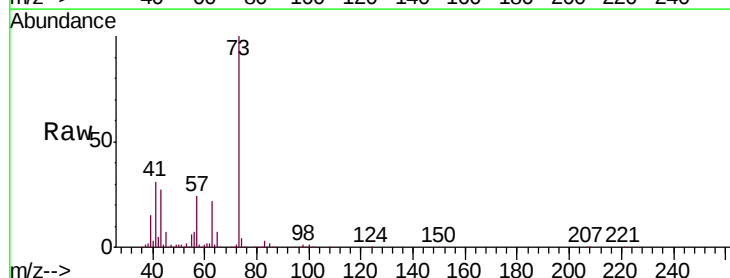
Acq: 27 Feb 2020 00:32

Tgt Ion: 73 Resp: 1425400

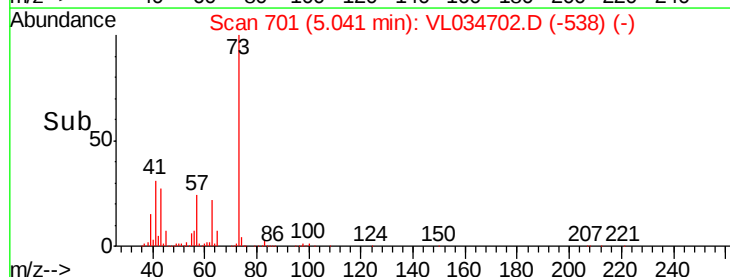
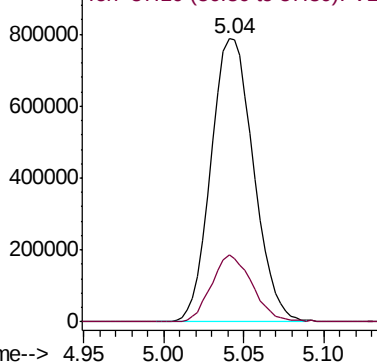
Ion Ratio Lower Upper

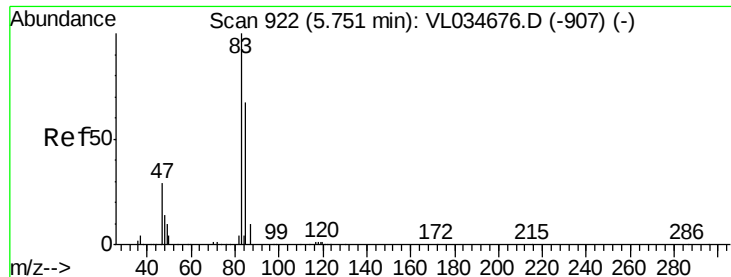
73 100

57 22.8 18.6 28.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.543 ppbv

RT: 5.77 min Scan# 929

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

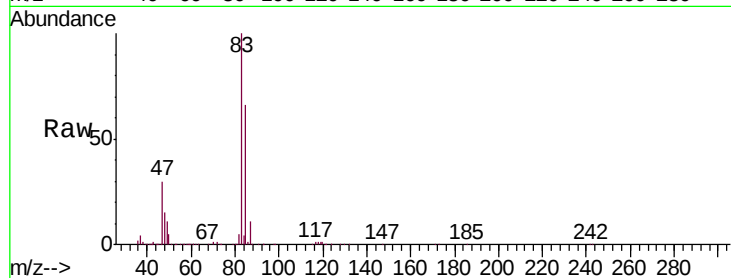
VSTDCCC010EC

Tgt Ion: 83 Resp: 1425959

Ion Ratio Lower Upper

83 100

85 66.3 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

800000

600000

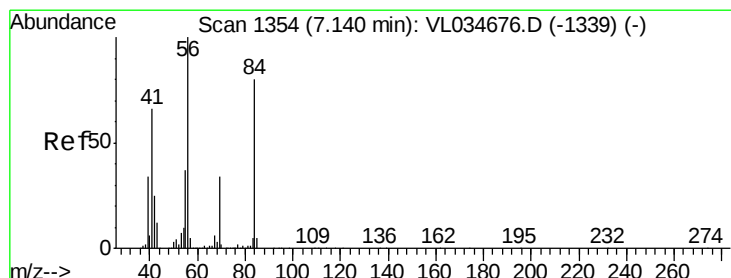
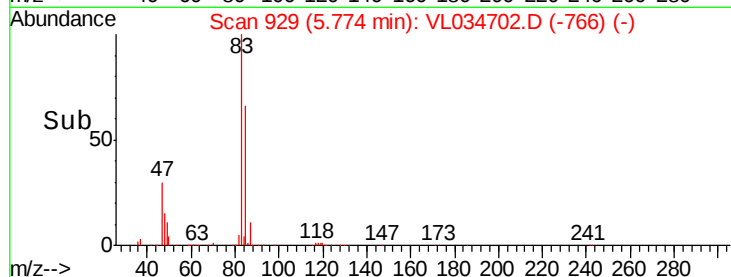
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#30

Cyclohexane

Concen: 10.539 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

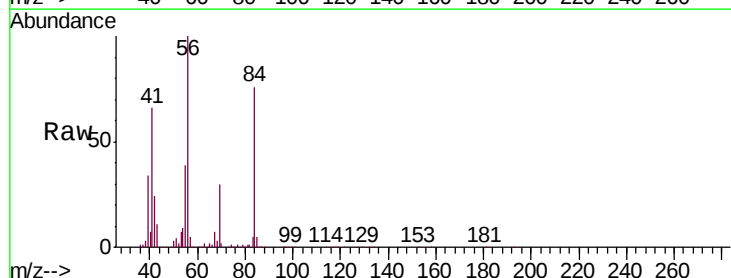
Tgt Ion: 84 Resp: 766010

Ion Ratio Lower Upper

84 100

56 138.0 113.4 170.2

41 85.4 68.2 102.4



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

600000

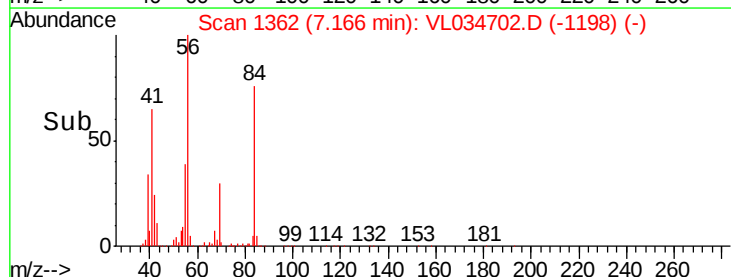
400000

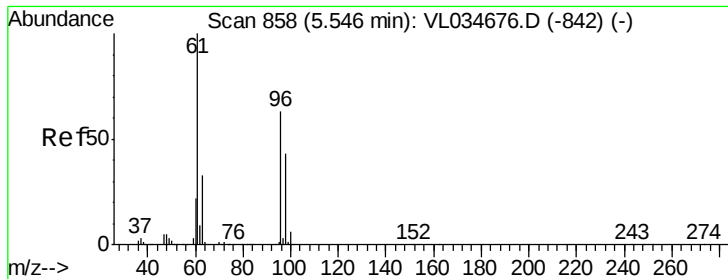
200000

0

7.10 7.15 7.20 7.25

Time-->



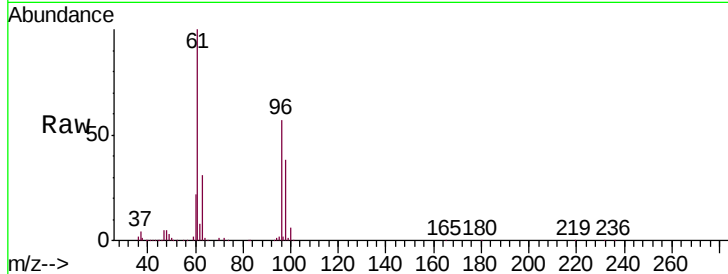


#31

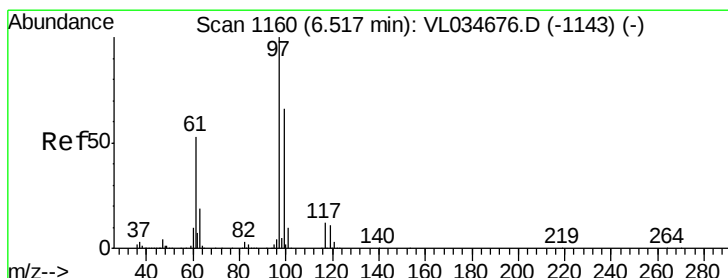
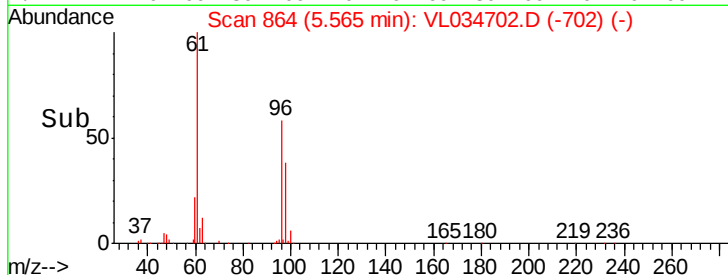
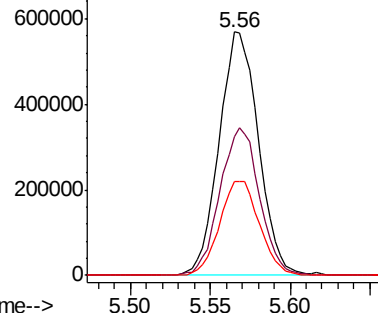
cis-1,2-Dichloroethene
 Concen: 10.356 ppbv
 RT: 5.56 min Scan# 864
 Delta R.T. 0.02 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion: 61 Resp: 955768
 Ion Ratio Lower Upper
 61 100
 96 57.2 50.2 75.2
 98 38.5 34.3 51.5



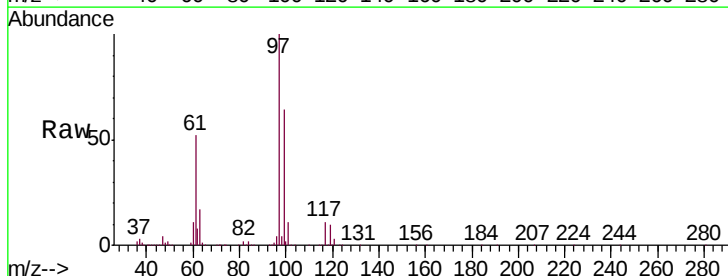
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



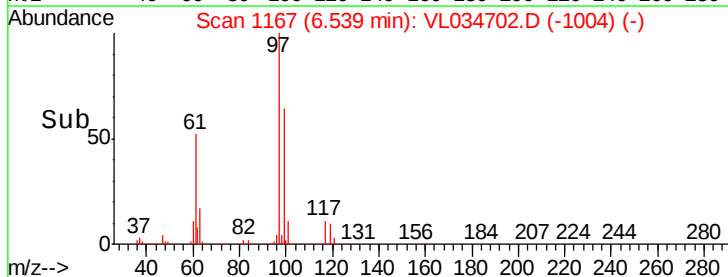
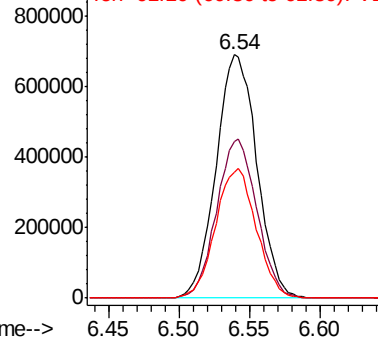
#32

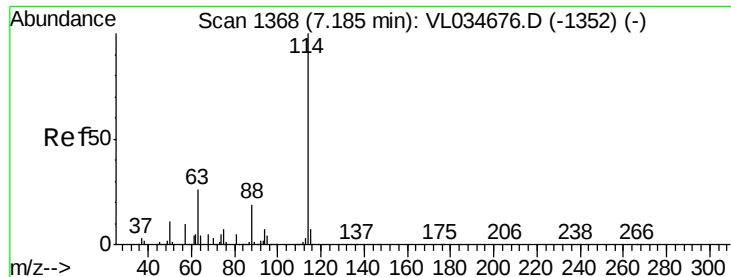
1,1,1-Trichloroethane
 Concen: 9.997 ppbv
 RT: 6.54 min Scan# 1167
 Delta R.T. 0.02 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Tgt Ion: 97 Resp: 1394894
 Ion Ratio Lower Upper
 97 100
 99 64.7 52.3 78.5
 61 53.4 42.8 64.2



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

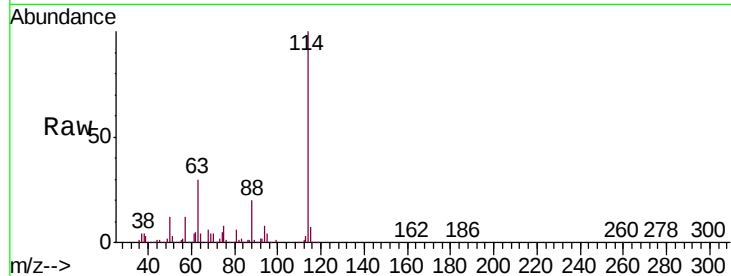




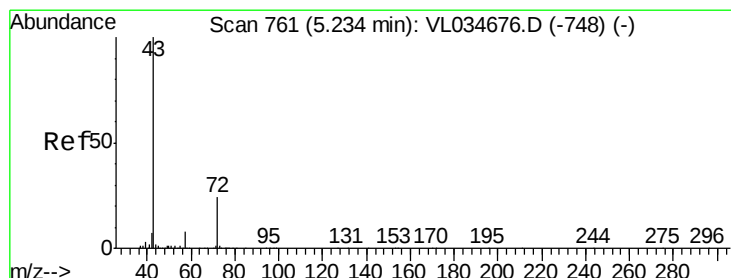
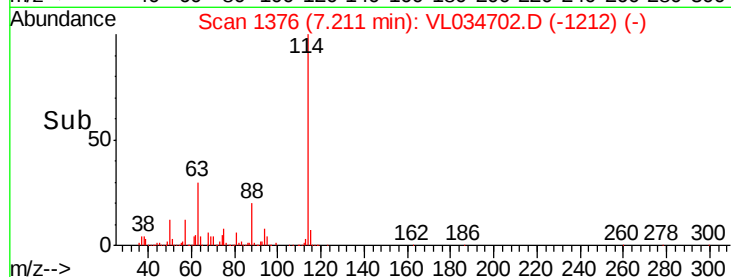
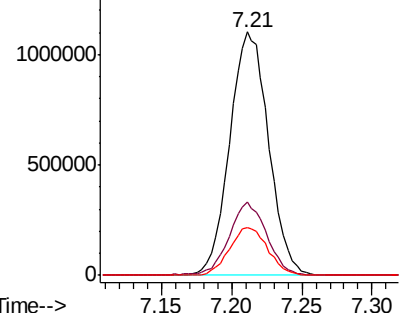
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. 0.03 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:114 Resp: 2118686
 Ion Ratio Lower Upper
 114 100
 63 29.5 22.9 34.3
 88 19.5 15.8 23.6

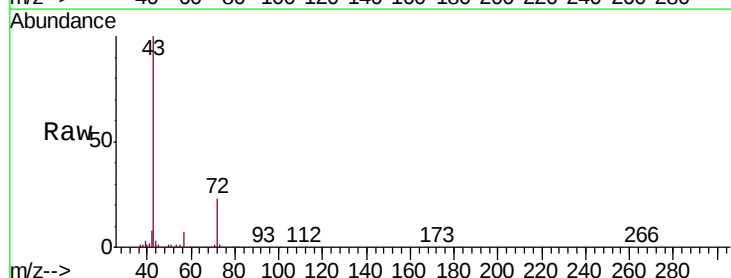


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

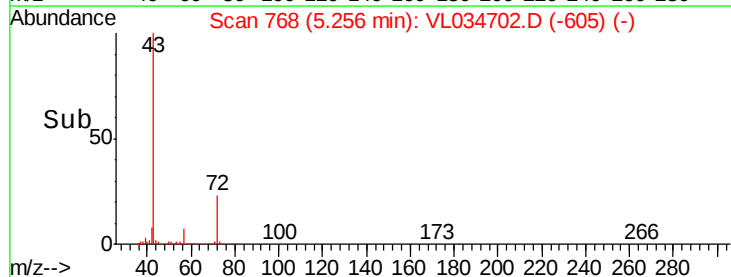
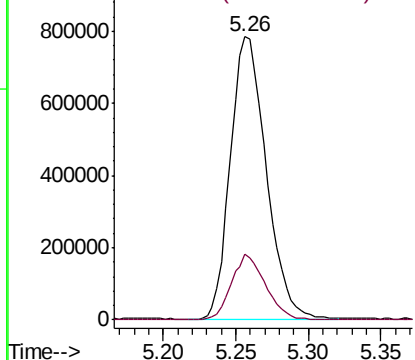


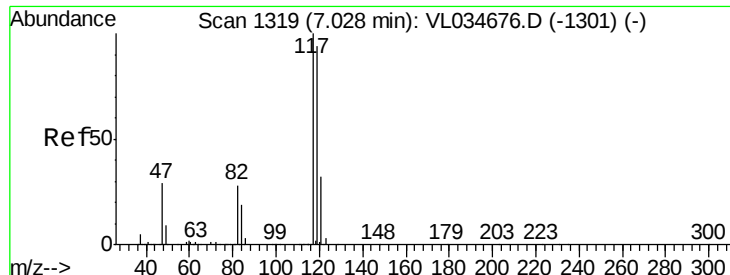
#34
 2-Butanone
 Concen: 10.090 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.02 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Tgt Ion: 43 Resp: 1345546
 Ion Ratio Lower Upper
 43 100
 72 21.9 18.2 27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.012 ppbv

RT: 7.05 min Scan# 1326

Delta R.T. 0.02 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

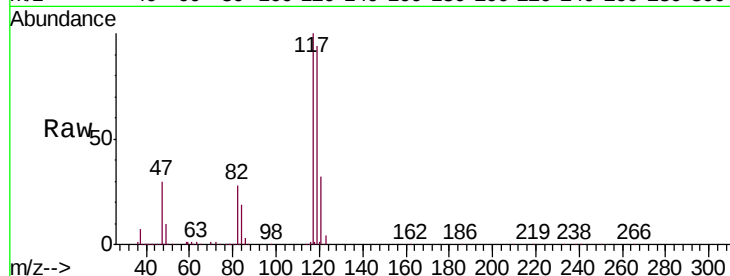
Tgt Ion:117 Resp: 1420601

Ion Ratio Lower Upper

117 100

119 94.4 75.5 113.3

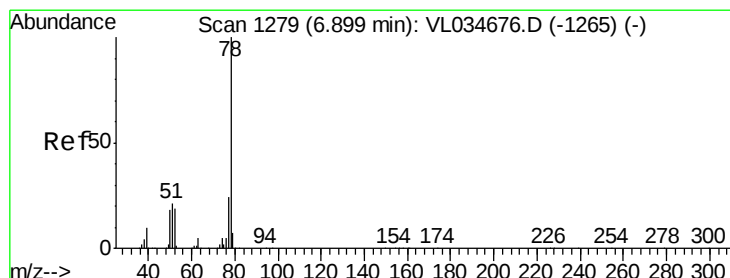
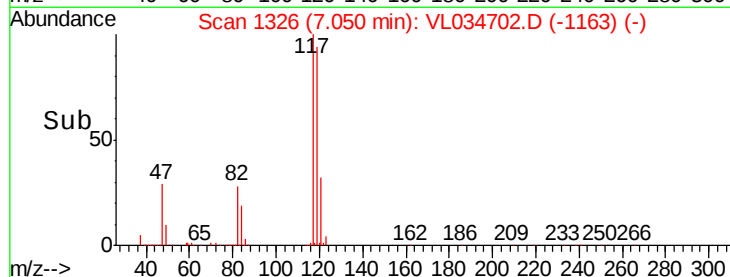
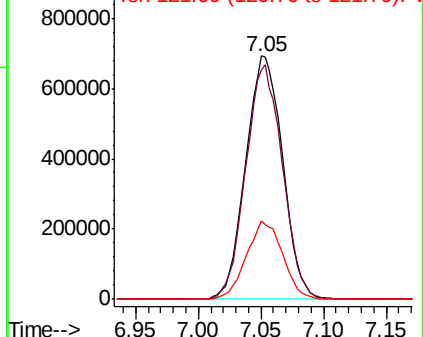
121 32.1 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.916 ppbv

RT: 6.92 min Scan# 1287

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

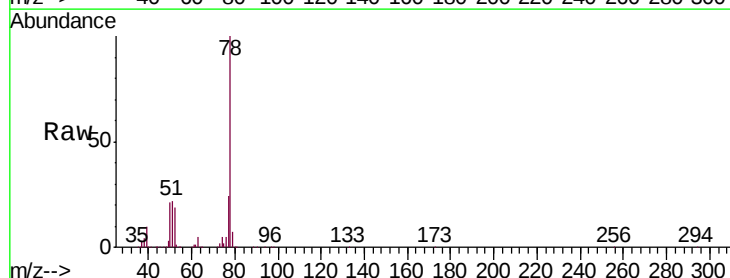
Tgt Ion: 78 Resp: 1814578

Ion Ratio Lower Upper

78 100

77 23.9 19.5 29.3

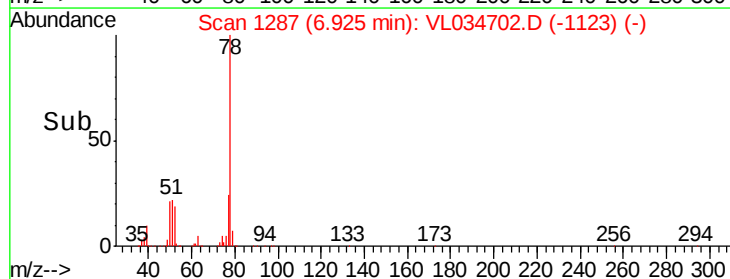
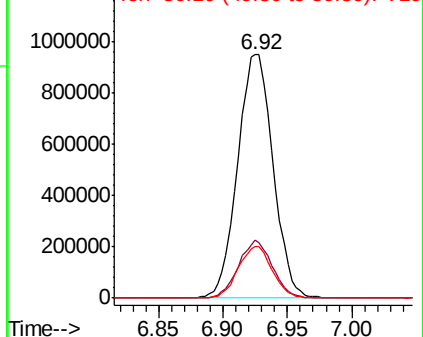
50 21.3 14.6 21.8

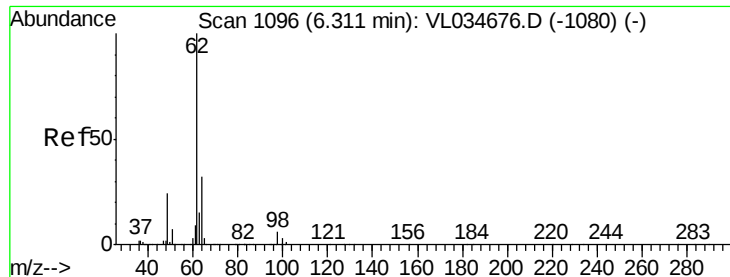


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

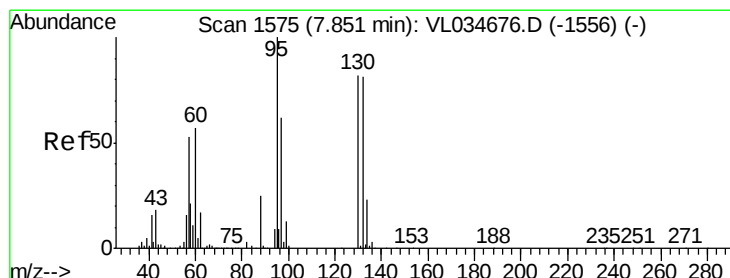
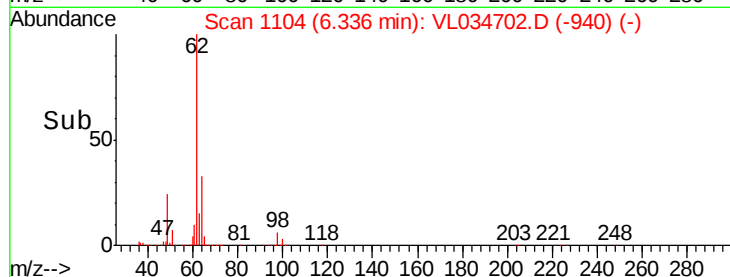
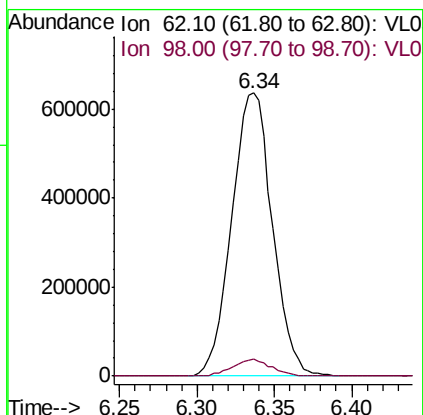
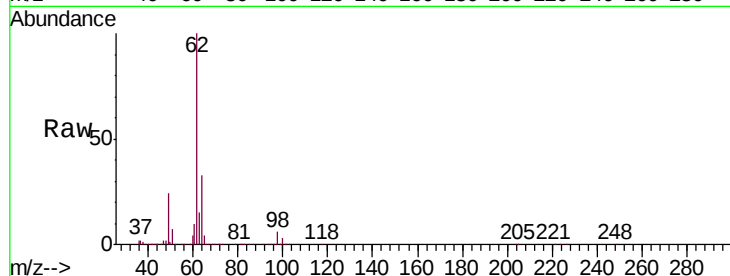




#37
 1,2-Dichloroethane
 Concen: 10.012 ppbv
 RT: 6.34 min Scan# 1104
 Delta R.T. 0.03 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

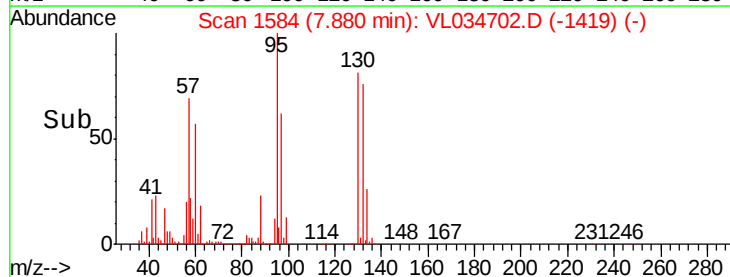
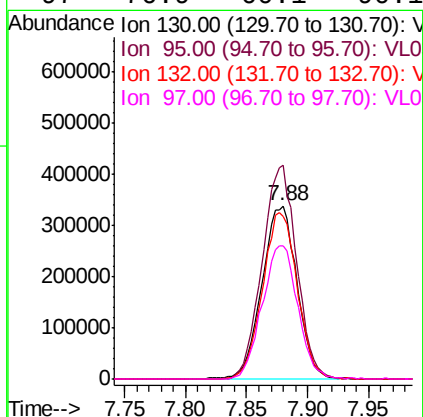
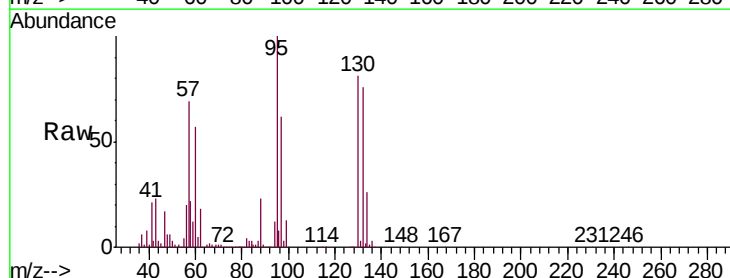
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

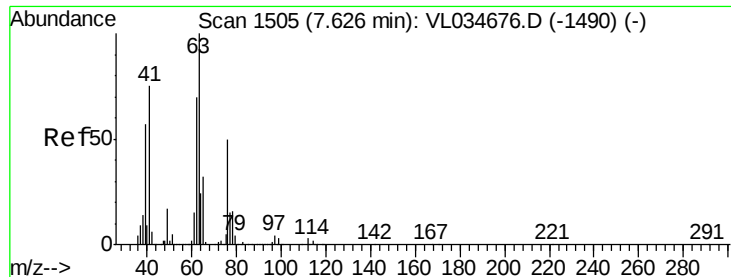
Tgt Ion: 62 Resp: 1154933
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.7 7.1



#38
 Trichloroethene
 Concen: 9.567 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.03 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Tgt Ion: 130 Resp: 674804
 Ion Ratio Lower Upper
 130 100
 95 123.5 97.1 145.7
 132 93.9 78.3 117.5
 97 76.9 60.1 90.1





#39

1,2-Dichloropropane

Concen: 10.089 ppbv

RT: 7.65 min Scan# 1513

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

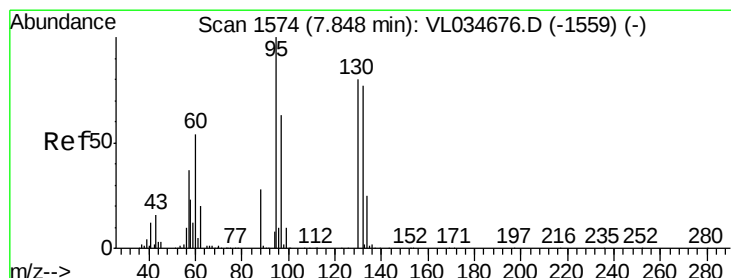
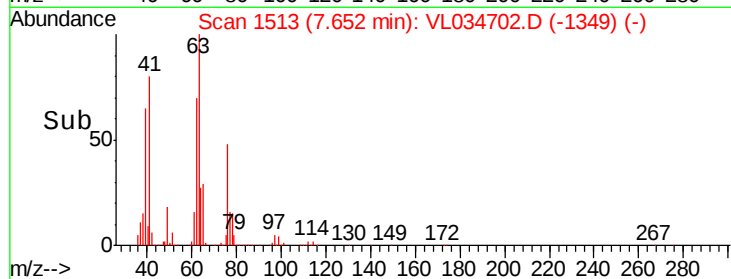
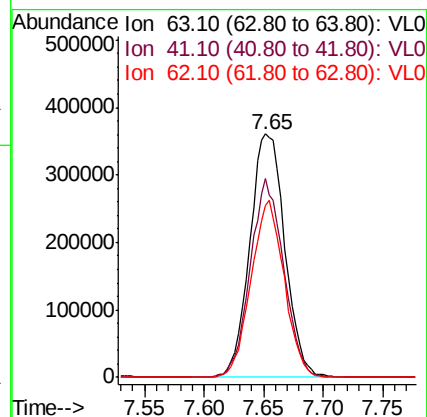
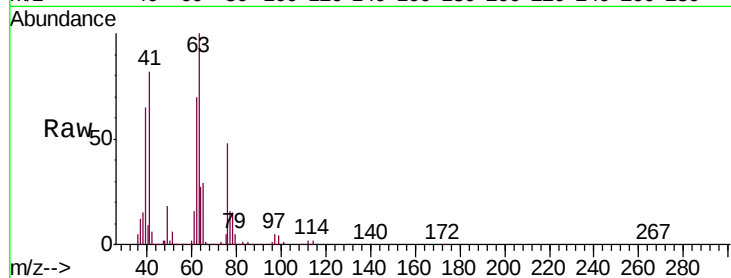
Tgt Ion: 63 Resp: 734479

Ion Ratio Lower Upper

63 100

41 81.5 60.2 90.4

62 70.5 56.3 84.5



#40

1,4-Dioxane

Concen: 6.554 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Tgt Ion: 88 Resp: 162250

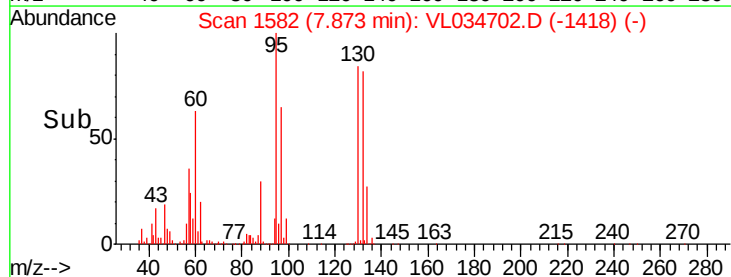
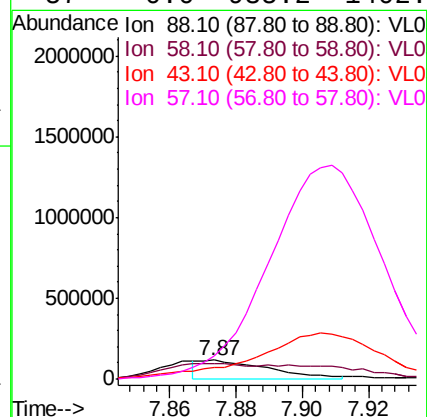
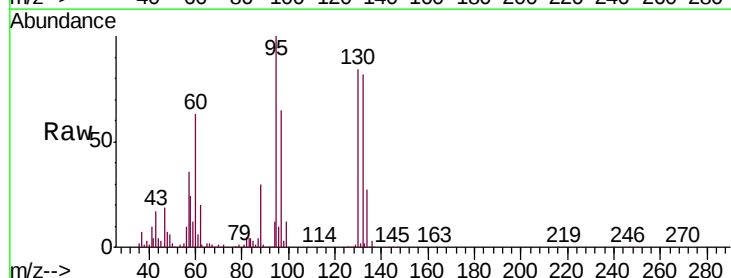
Ion Ratio Lower Upper

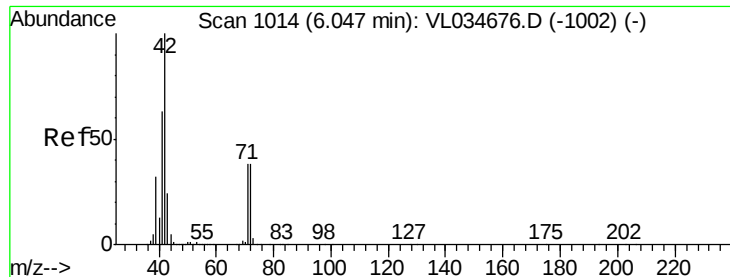
88 100

58 225.7 104.6 156.8#

43 0.0 212.9 319.3#

57 0.0 935.2 1402.8#

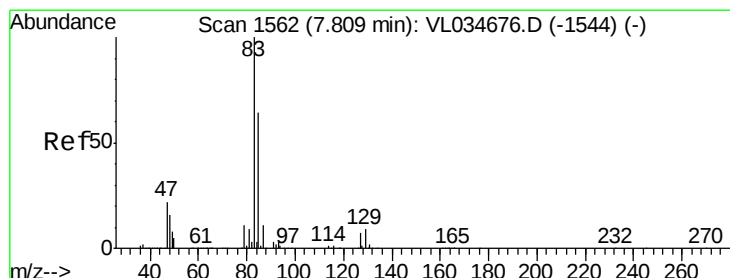
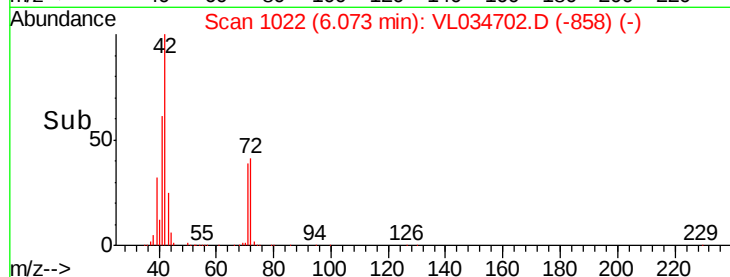
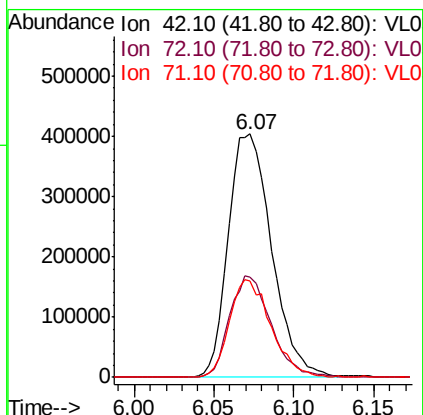
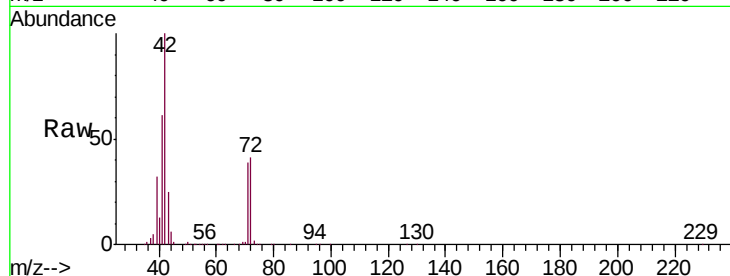




#41
Tetrahydrofuran
Concen: 10.601 ppbv
RT: 6.07 min Scan# 1022
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

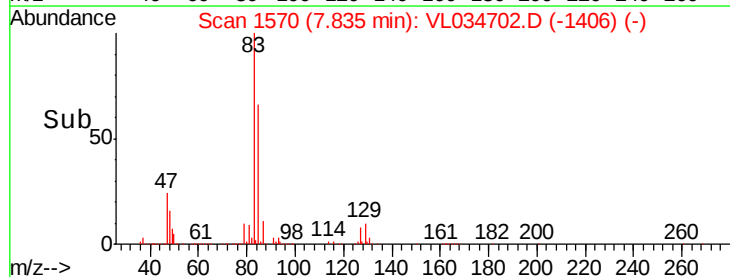
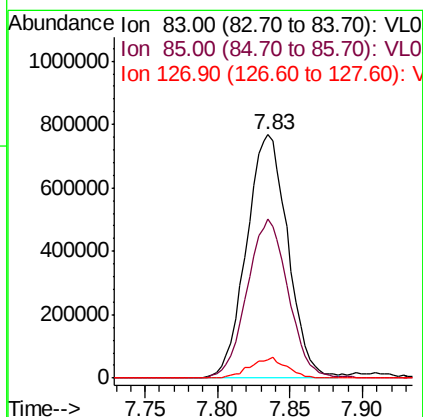
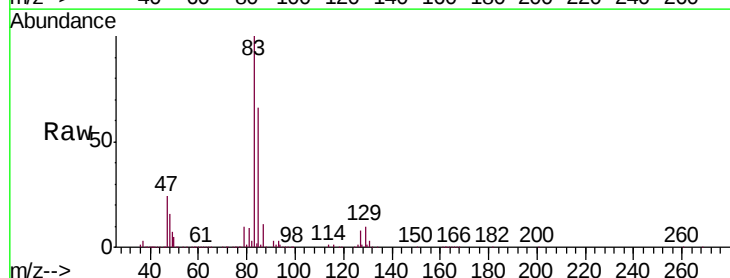
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

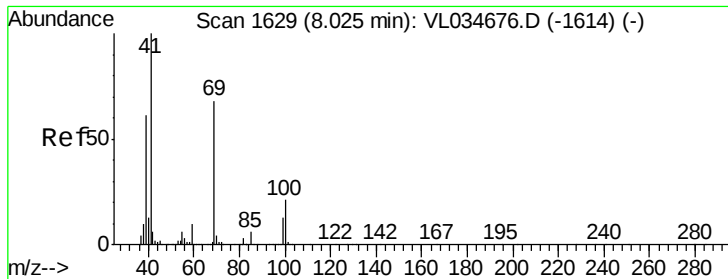
Tgt Ion: 42 Resp: 746169
Ion Ratio Lower Upper
42 100
72 39.9 31.7 47.5
71 38.6 30.7 46.1



#42
Bromodichloromethane
Concen: 10.084 ppbv
RT: 7.83 min Scan# 1570
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

Tgt Ion: 83 Resp: 1522807
Ion Ratio Lower Upper
83 100
85 65.6 51.1 76.7
127 7.6 5.8 8.8

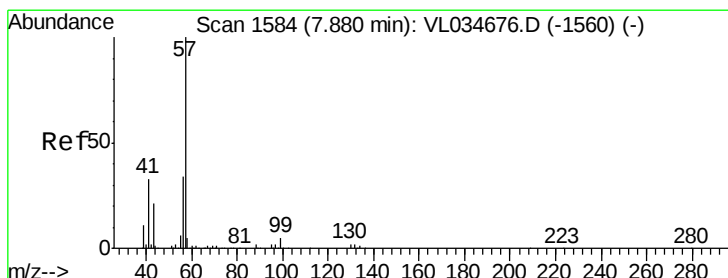
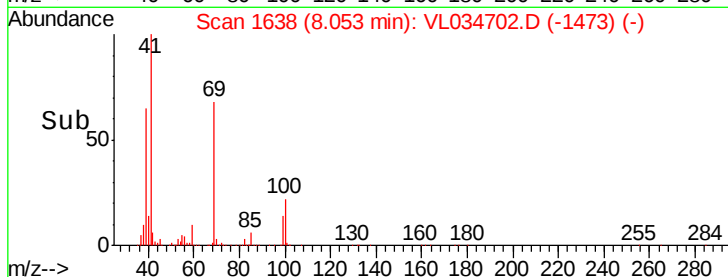
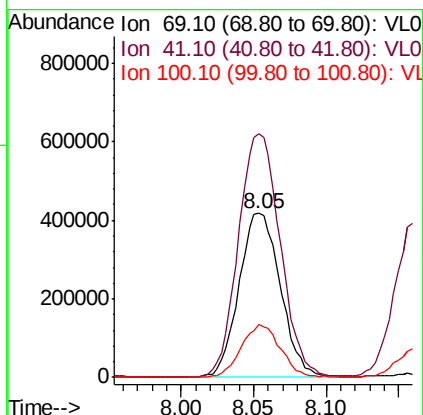
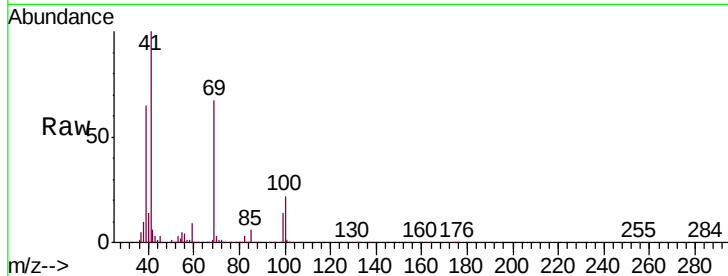




#43
Methyl Methacrylate
Concen: 10.792 ppbv
RT: 8.05 min Scan# 1638
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

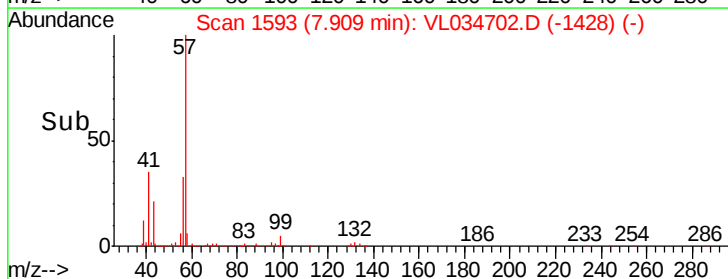
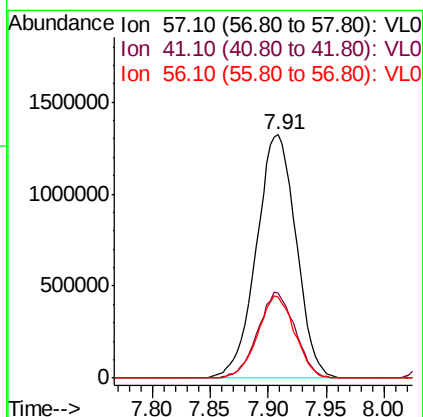
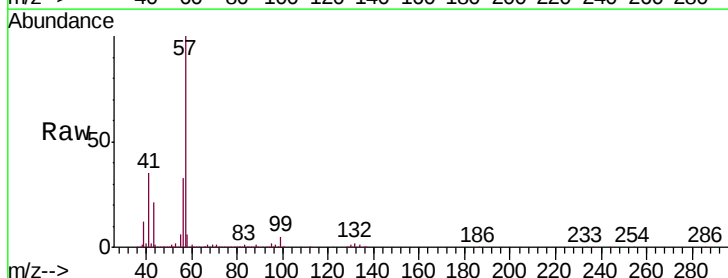
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

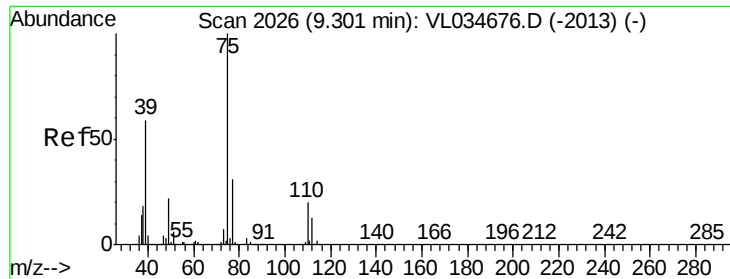
Tgt Ion: 69 Resp: 830650
Ion Ratio Lower Upper
69 100
41 150.0 118.2 177.2
100 30.6 24.2 36.2



#44
2,2,4-Trimethylpentane
Concen: 9.852 ppbv
RT: 7.91 min Scan# 1593
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

Tgt Ion: 57 Resp: 3150892
Ion Ratio Lower Upper
57 100
41 33.3 26.0 39.0
56 31.5 25.6 38.4

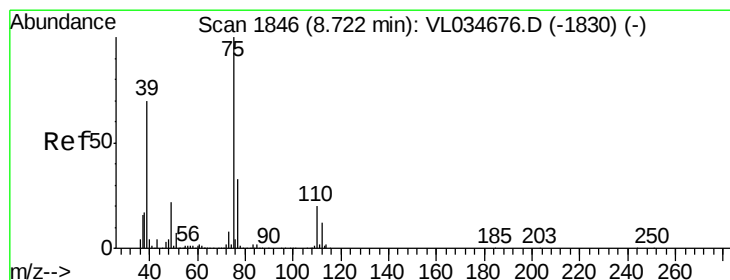
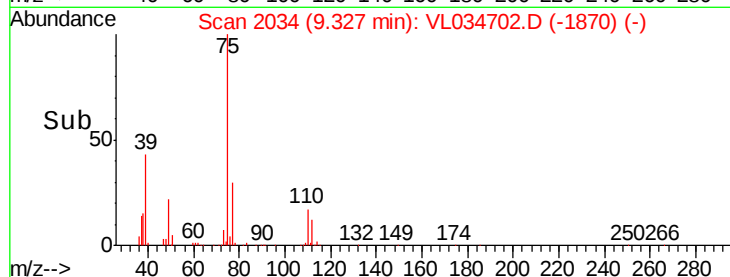
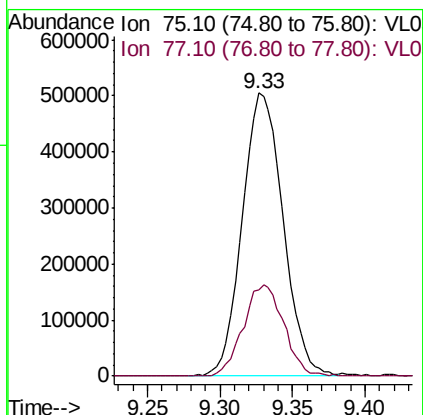
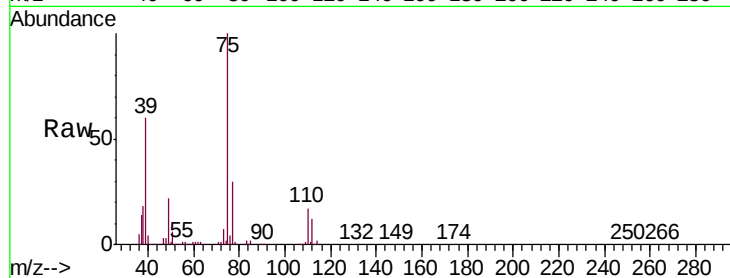




#45
t-1,3-Dichloropropene
Concen: 11.780 ppbv
RT: 9.33 min Scan# 2034
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

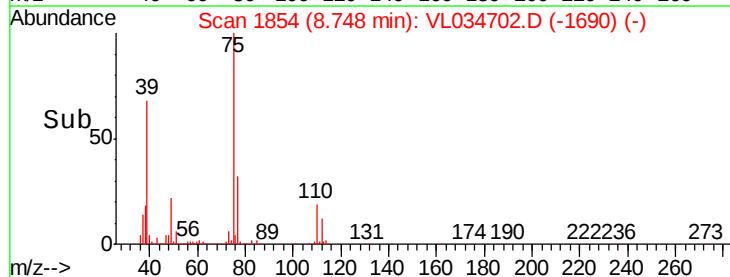
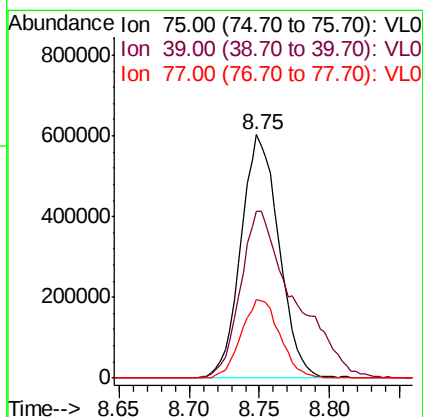
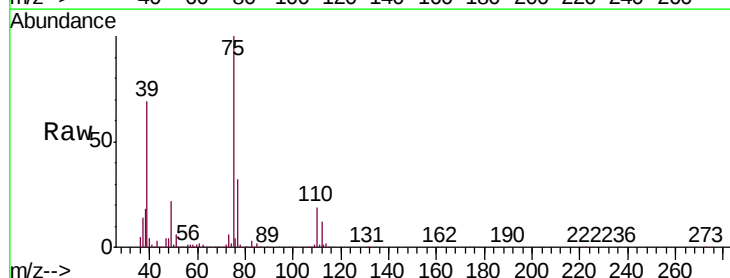
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

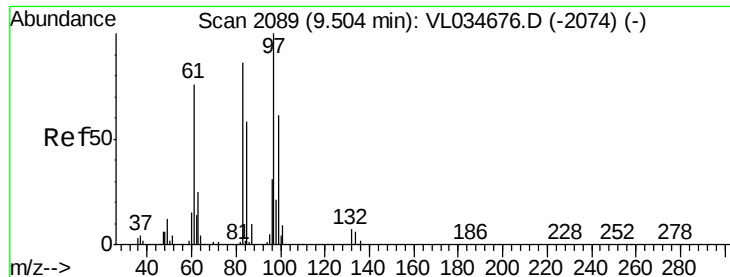
Tgt Ion: 75 Resp: 989420
Ion Ratio Lower Upper
75 100
77 30.5 25.3 37.9



#46
cis-1,3-Dichloropropene
Concen: 11.312 ppbv
RT: 8.75 min Scan# 1854
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

Tgt Ion: 75 Resp: 1139450
Ion Ratio Lower Upper
75 100
39 68.7 55.7 83.5
77 32.0 26.3 39.5

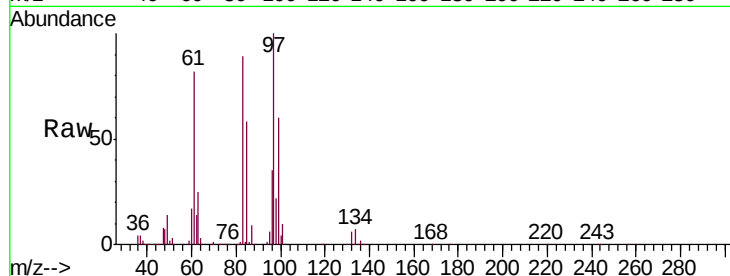




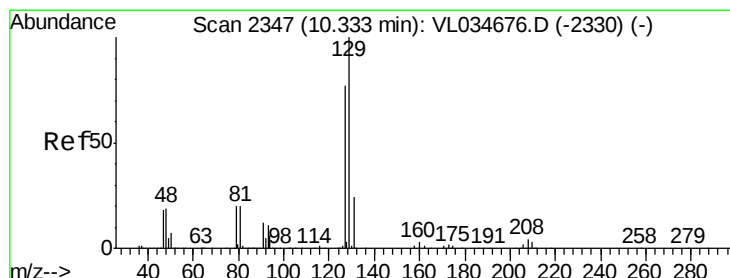
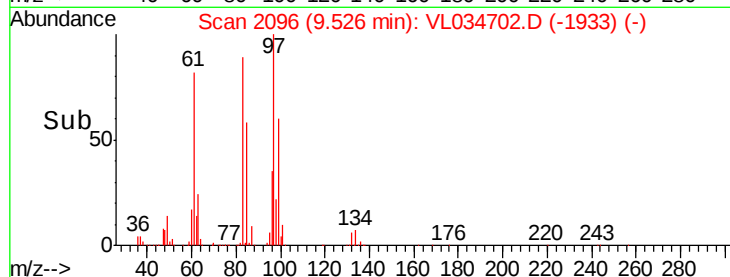
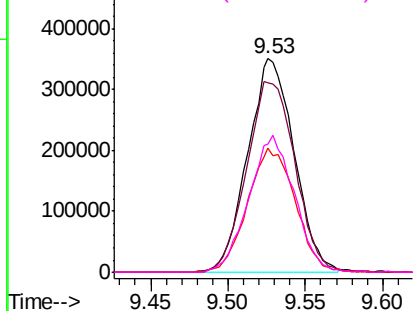
#47
 1,1,2-Trichloroethane
 Concen: 9.811 ppbv
 RT: 9.53 min Scan# 2096
 Delta R.T. 0.02 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:	97	Resp:	732737
Ion	Ratio	Lower	Upper
97	100		
83	88.8	69.4	104.0
85	58.2	46.4	69.6
99	59.6	48.4	72.6

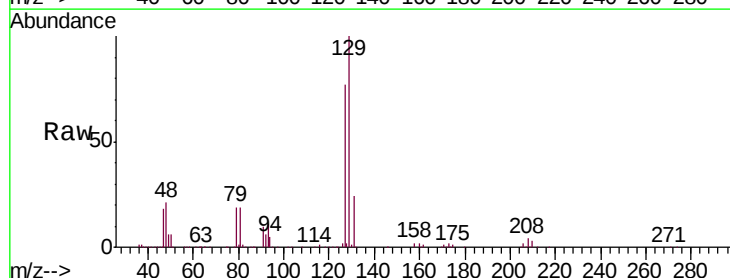


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

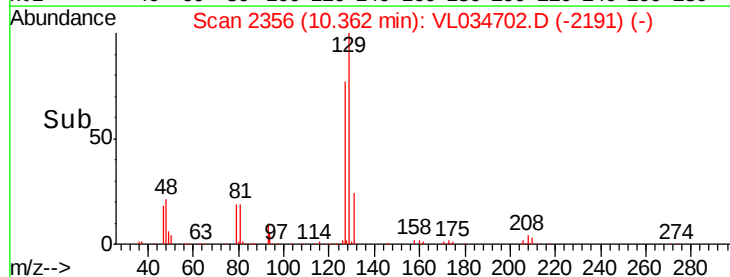
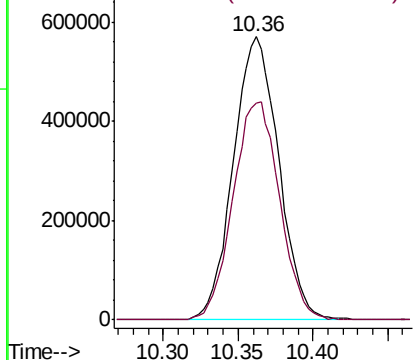


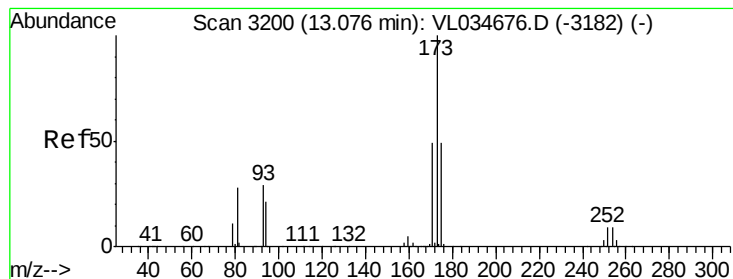
#48
 Dibromochloromethane
 Concen: 10.290 ppbv
 RT: 10.36 min Scan# 2356
 Delta R.T. 0.03 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Tgt Ion:	129	Resp:	1195023
Ion	Ratio	Lower	Upper
129	100		
127	79.8	39.3	117.8



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.198 ppbv

RT: 13.11 min Scan# 3210

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

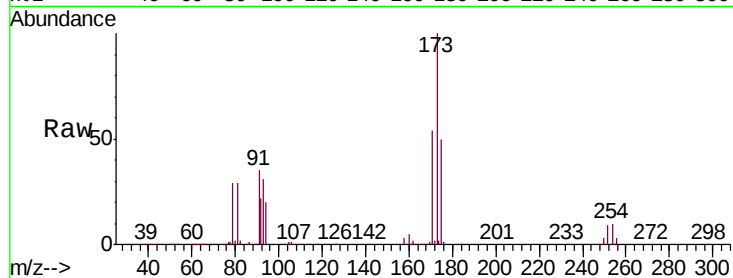
Tgt Ion:173 Resp: 1026866

Ion Ratio Lower Upper

173 100

175 48.5 38.6 58.0

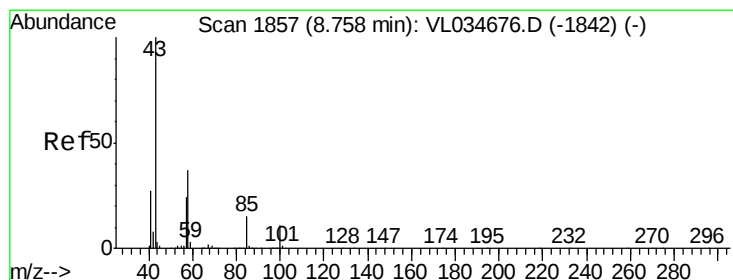
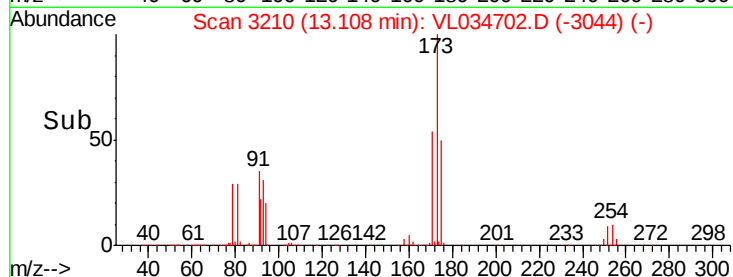
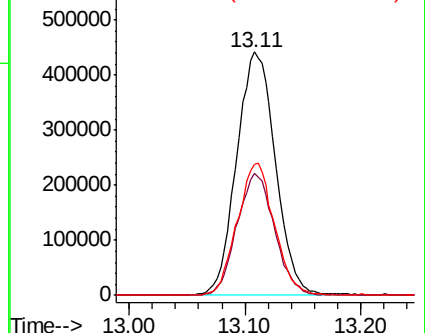
171 51.9 41.5 62.3



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: 10.500 ppbv

RT: 8.78 min Scan# 1865

Delta R.T. 0.03 min

Lab File: VL034702.D

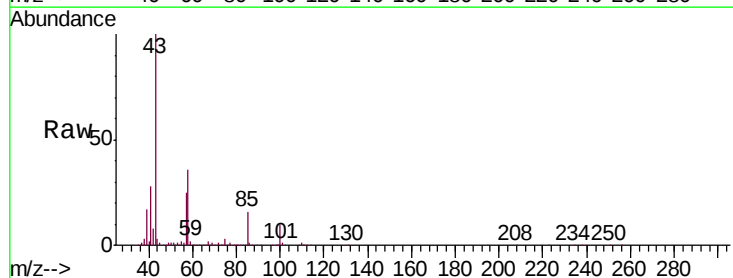
Acq: 27 Feb 2020 00:32

Tgt Ion: 43 Resp: 1983354

Ion Ratio Lower Upper

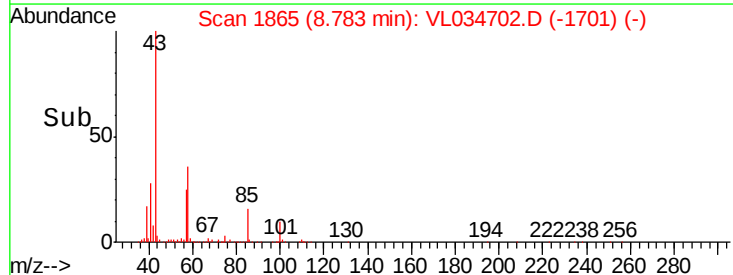
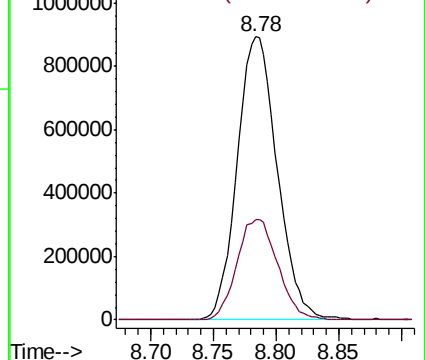
43 100

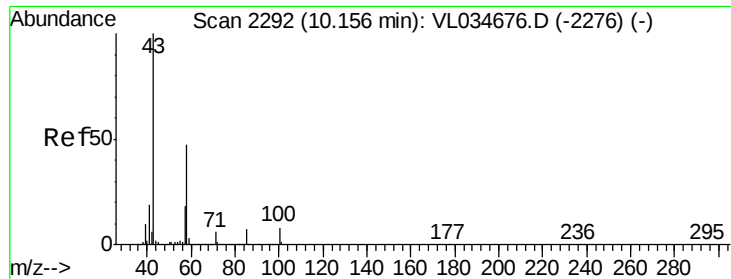
58 36.3 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

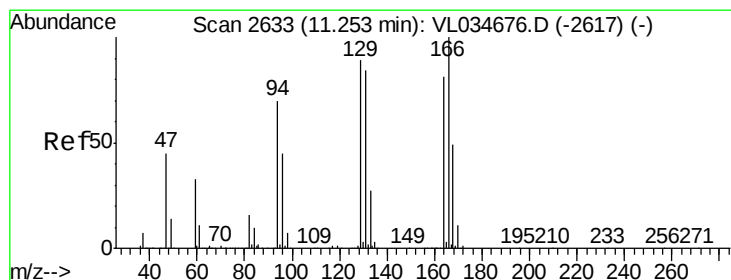
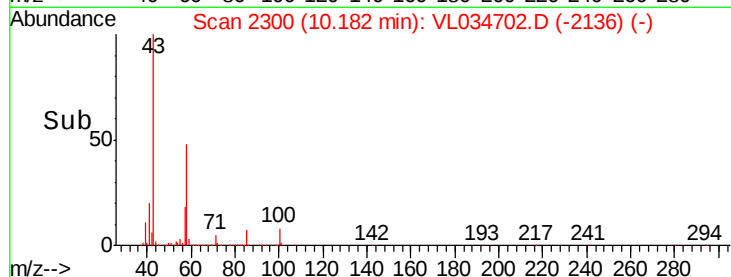
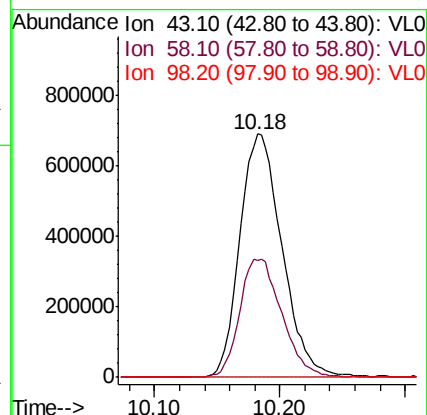
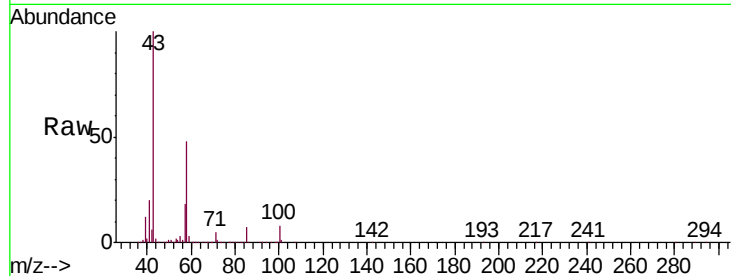




#51
2-Hexanone
Concen: 10.855 ppbv
RT: 10.18 min Scan# 2300
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

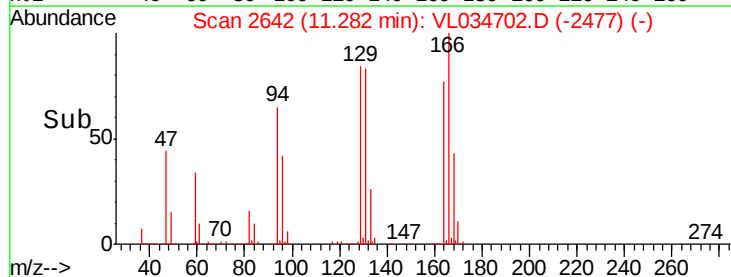
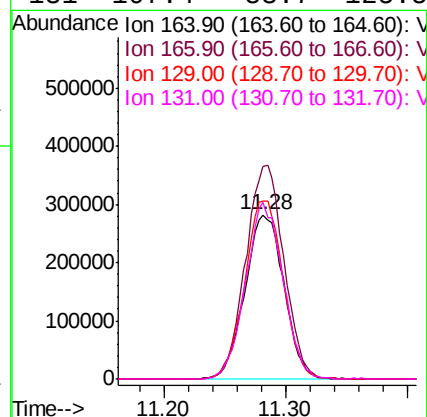
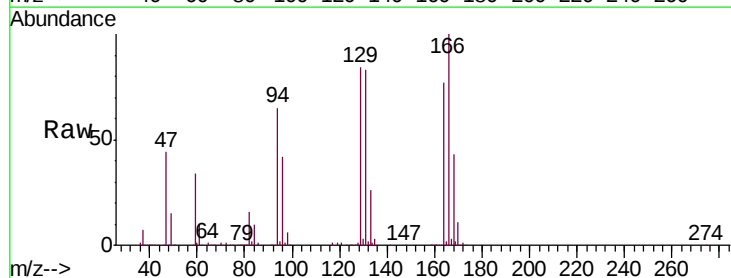
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

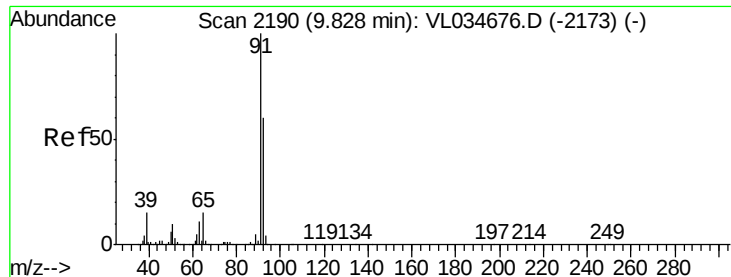
Tgt Ion: 43 Resp: 1613584
Ion Ratio Lower Upper
43 100
58 48.7 39.4 59.0
98 0.2 0.2 0.2



#52
Tetrachloroethene
Concen: 9.265 ppbv
RT: 11.28 min Scan# 2642
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

Tgt Ion: 164 Resp: 621430
Ion Ratio Lower Upper
164 100
166 129.3 99.2 148.8
129 108.3 88.0 132.0
131 107.4 83.7 125.5





#53

Toluene

Concen: 10.549 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

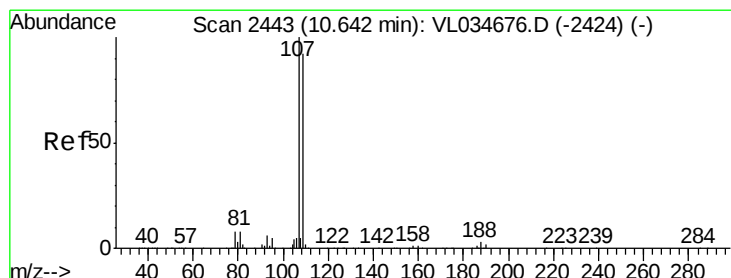
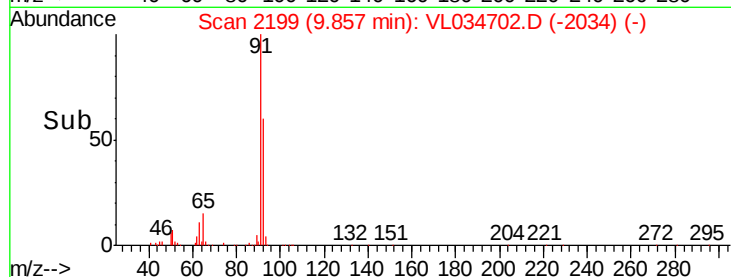
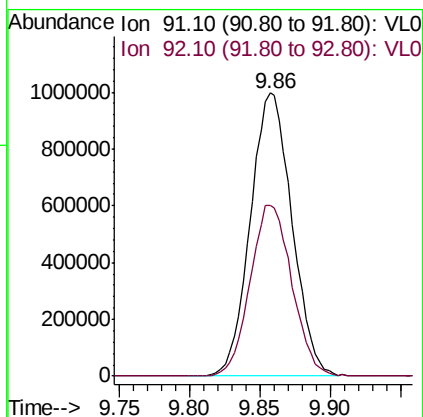
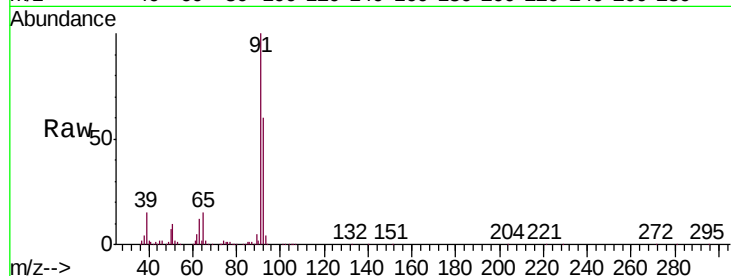
VSTDCCC010EC

Tgt Ion: 91 Resp: 2053044

Ion Ratio Lower Upper

91 100

92 60.7 48.5 72.7



#54

1,2-Dibromoethane

Concen: 9.963 ppbv

RT: 10.67 min Scan# 2452

Delta R.T. 0.03 min

Lab File: VL034702.D

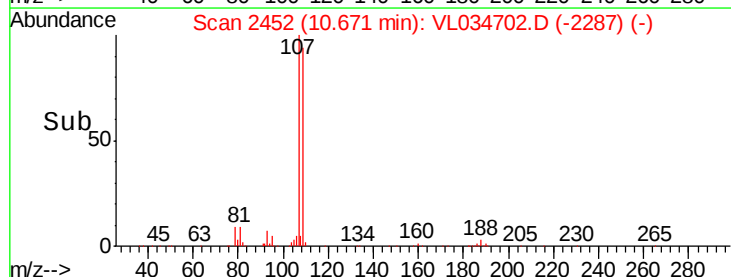
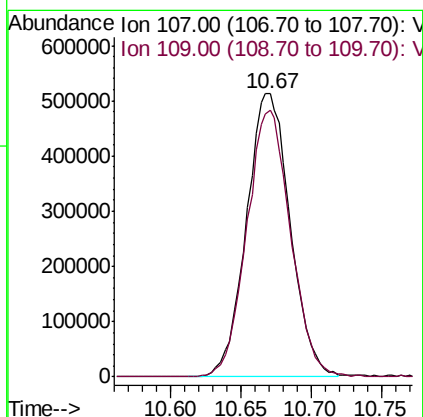
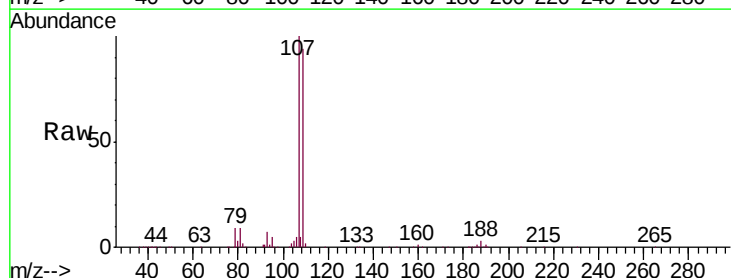
Acq: 27 Feb 2020 00:32

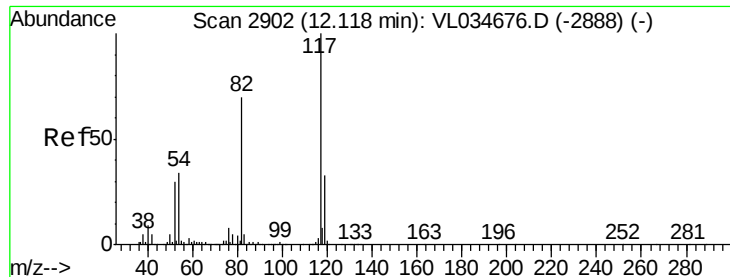
Tgt Ion: 107 Resp: 1110105

Ion Ratio Lower Upper

107 100

109 94.0 73.9 110.9

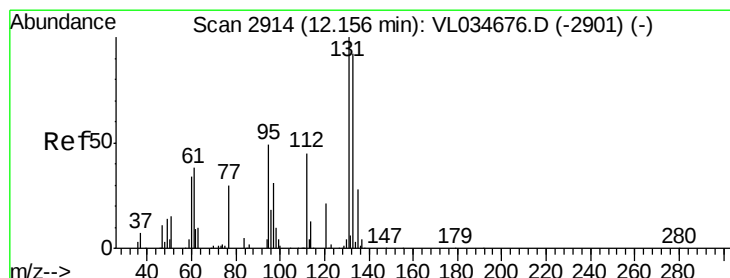
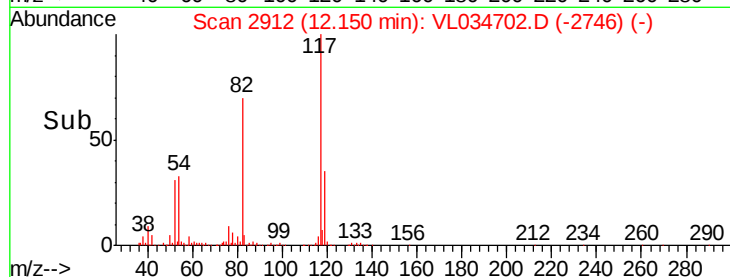
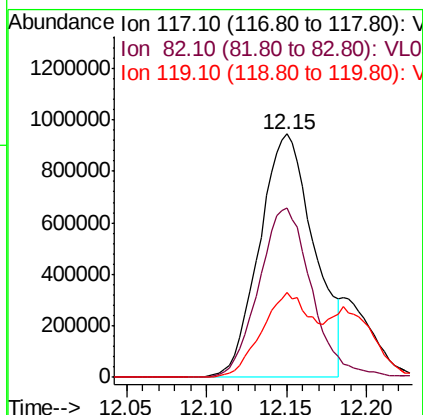
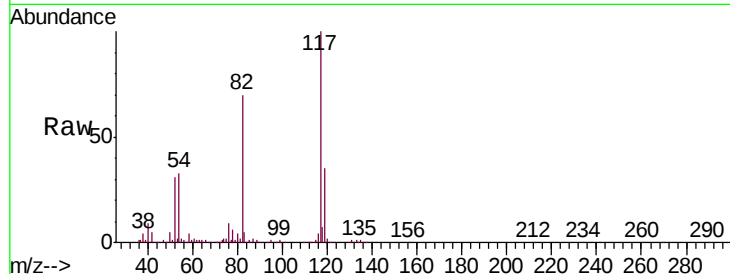




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

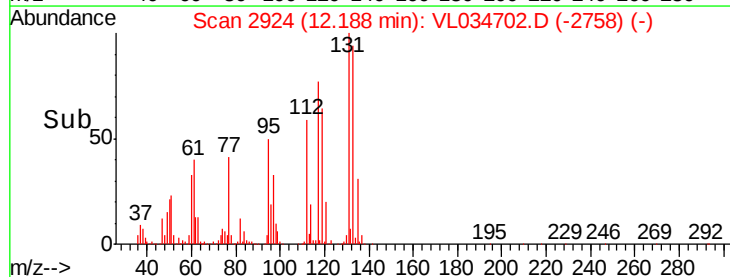
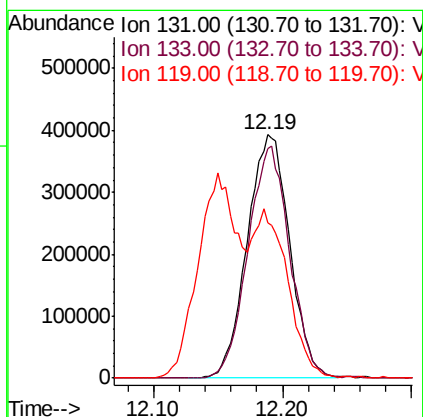
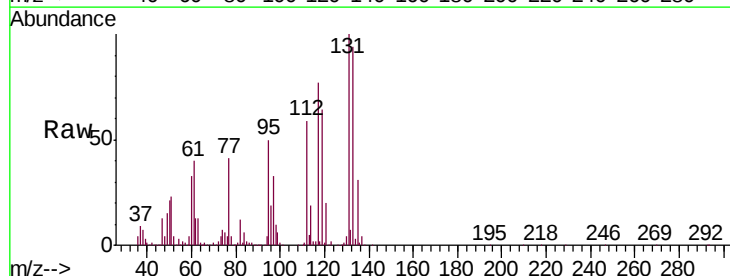
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

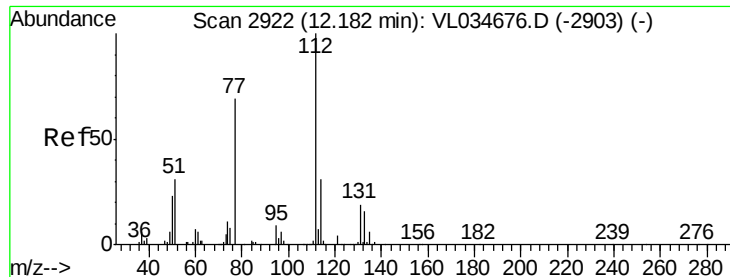
Tgt Ion:117 Resp: 2241901
Ion Ratio Lower Upper
117 100
82 67.8 54.1 81.1
119 30.7 27.6 41.4



#56
1,1,1,2-Tetrachloroethane
Concen: 9.435 ppbv
RT: 12.19 min Scan# 2924
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

Tgt Ion:131 Resp: 900846
Ion Ratio Lower Upper
131 100
133 93.9 76.6 114.8
119 62.0 51.3 76.9





#57

Chlorobenzene

Concen: 8.974 ppbv

RT: 12.21 min Scan# 2930

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

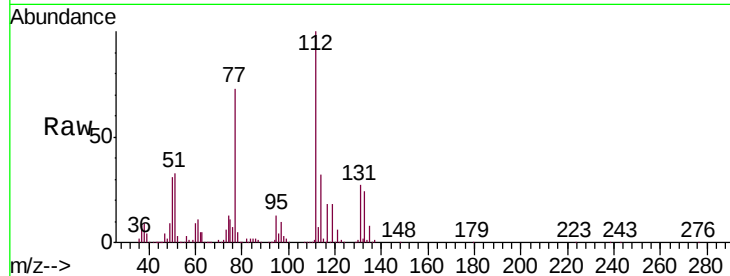
Tgt Ion: 112 Resp: 1487068

Ion Ratio Lower Upper

112 100

77 72.0 56.5 84.7

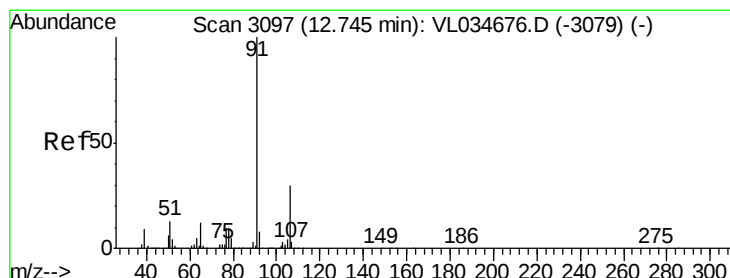
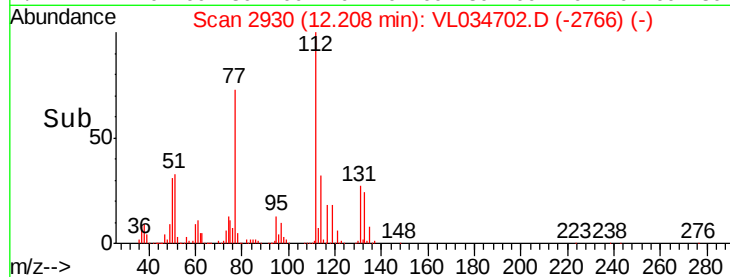
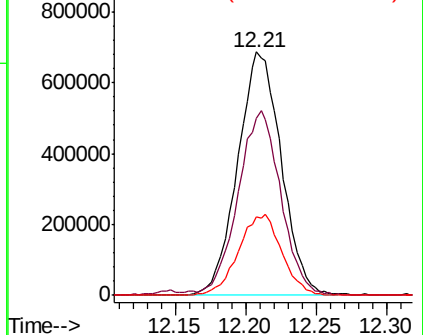
114 31.9 28.1 34.3



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: 4.464 ppbv

RT: 12.78 min Scan# 3107

Delta R.T. 0.03 min

Lab File: VL034702.D

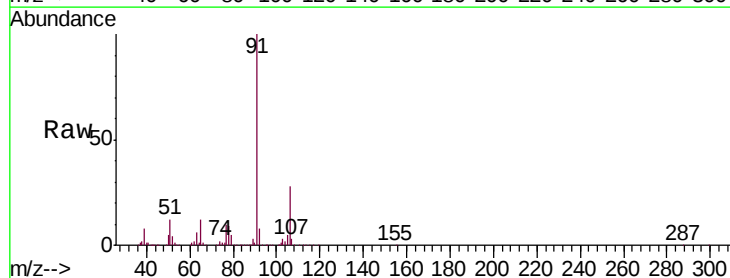
Acq: 27 Feb 2020 00:32

Tgt Ion: 91 Resp: 1210924

Ion Ratio Lower Upper

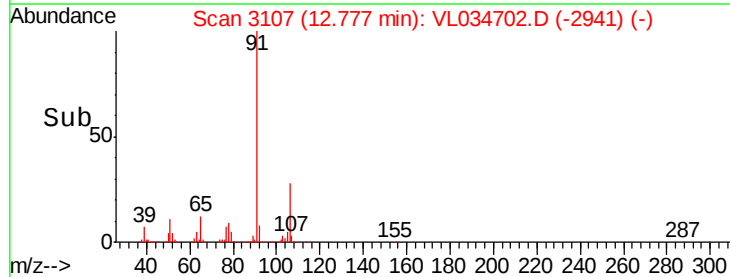
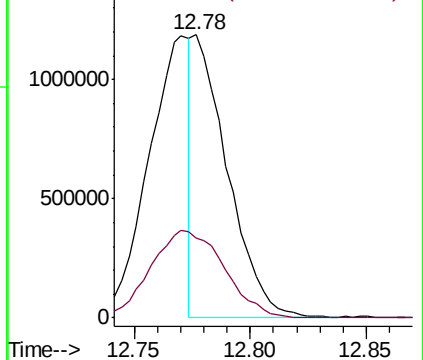
91 100

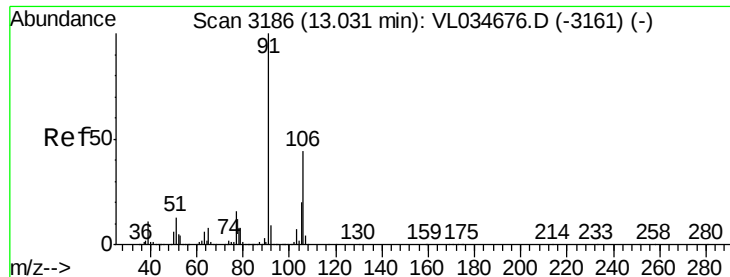
106 28.0 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

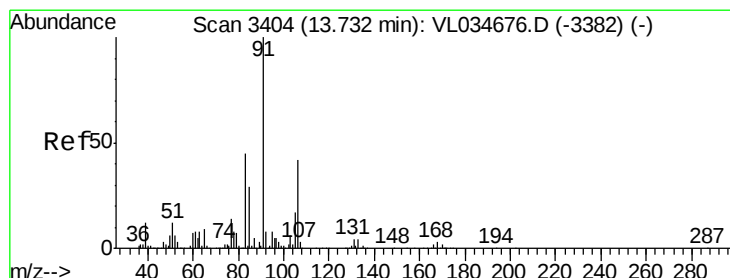
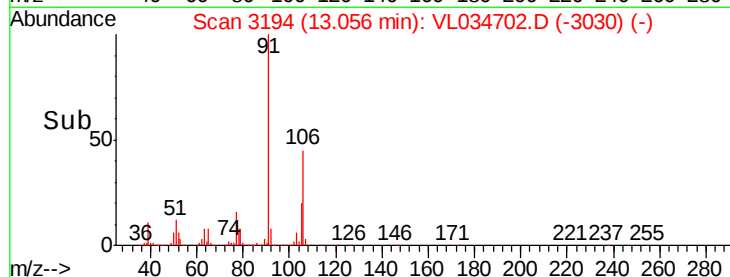
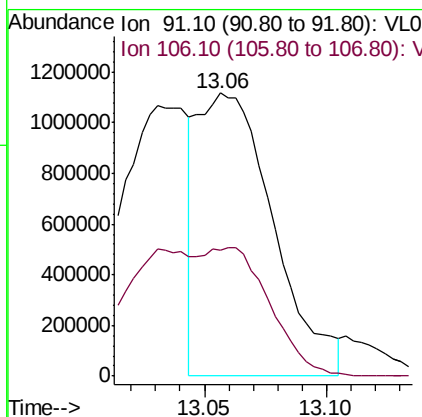
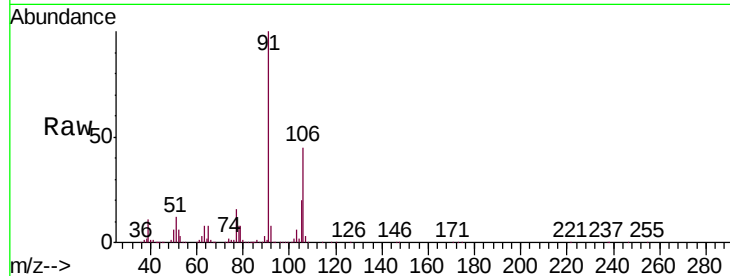




#59
m/p-Xylene
Concen: 10.119 ppbv
RT: 13.06 min Scan# 3194
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

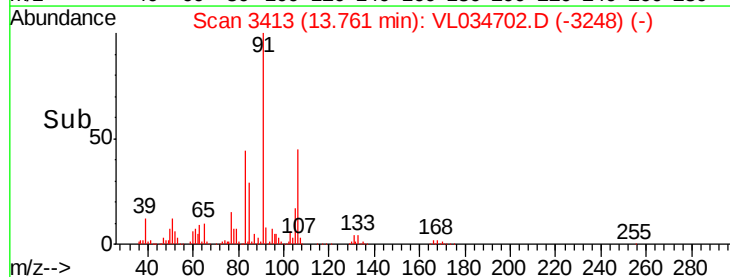
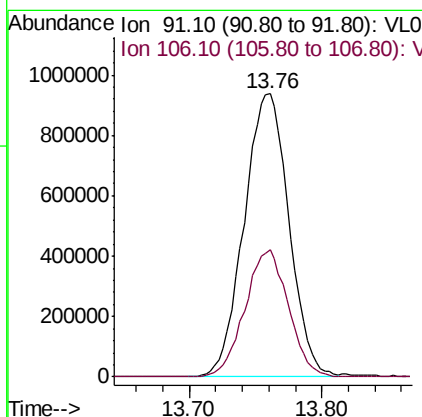
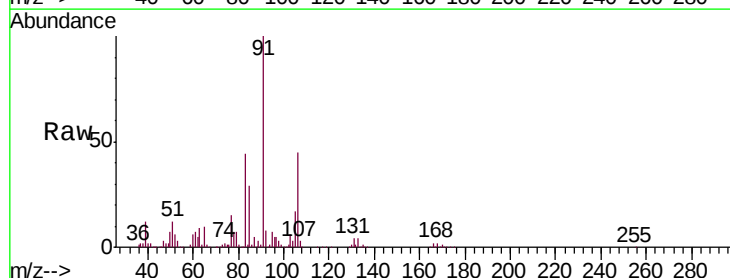
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

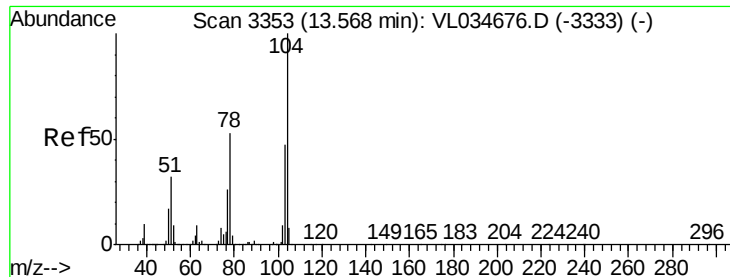
Tgt Ion: 91 Resp: 2393952
Ion Ratio Lower Upper
91 100
106 84.0 35.6 53.4#



#60
o-Xylene
Concen: 9.401 ppbv
RT: 13.76 min Scan# 3413
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

Tgt Ion: 91 Resp: 2206991
Ion Ratio Lower Upper
91 100
106 43.5 21.9 65.5





#61

Styrene

Concen: 10.422 ppbv

RT: 13.60 min Scan# 3362

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

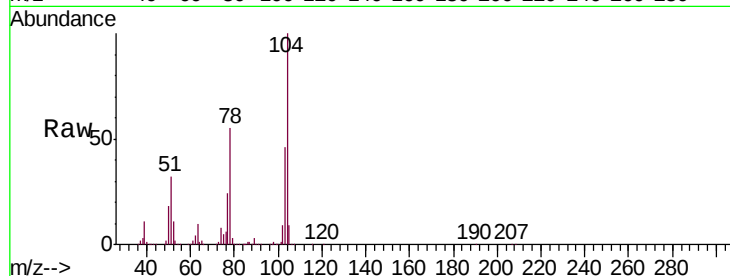
Tgt Ion:104 Resp: 1571671

Ion Ratio Lower Upper

104 100

78 56.4 44.2 66.4

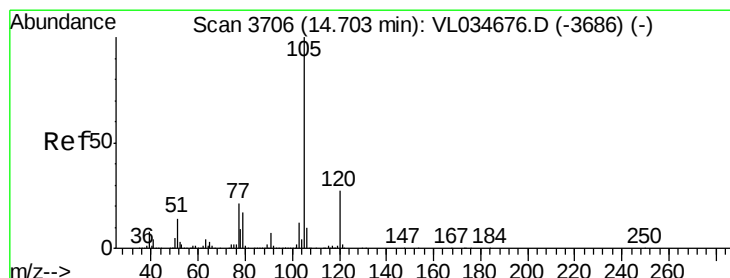
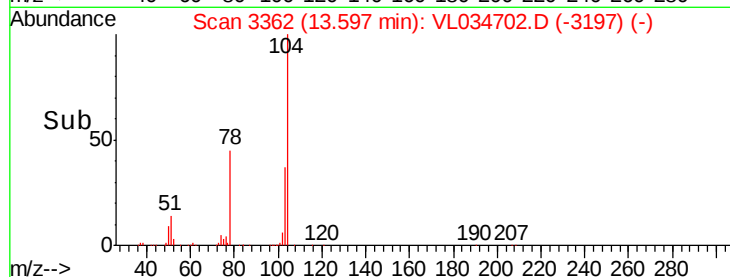
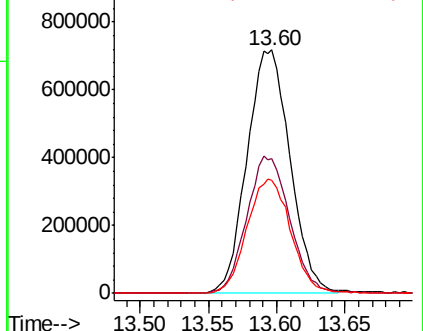
103 47.8 37.4 56.0



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: 9.315 ppbv

RT: 14.74 min Scan# 3717

Delta R.T. 0.04 min

Lab File: VL034702.D

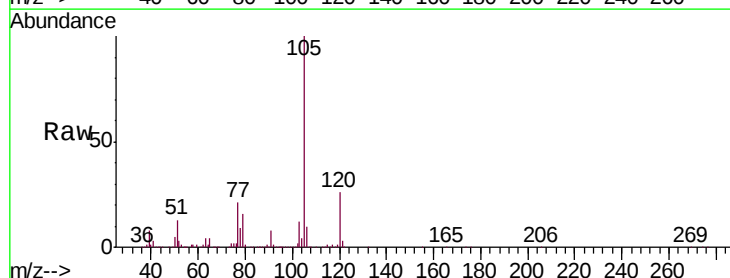
Acq: 27 Feb 2020 00:32

Tgt Ion:105 Resp: 3189885

Ion Ratio Lower Upper

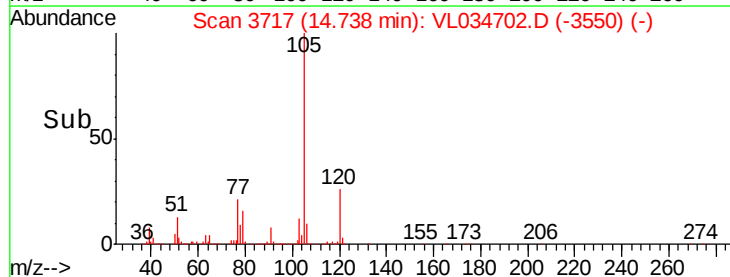
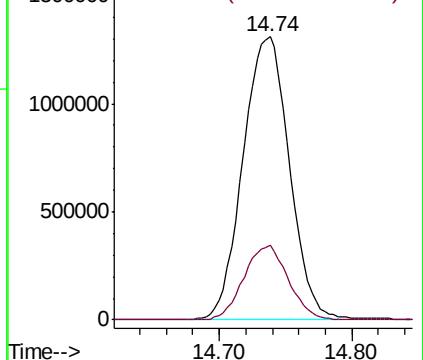
105 100

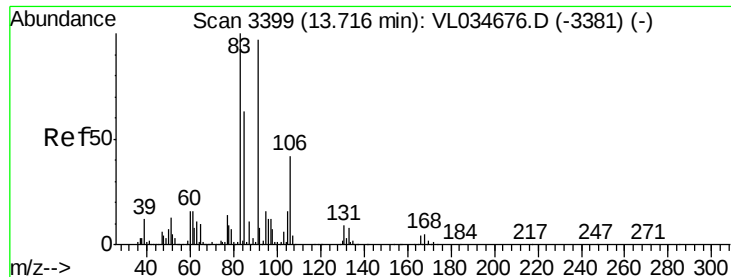
120 25.4 20.2 30.4



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: 8.502 ppbv

RT: 13.74 min Scan# 3408

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

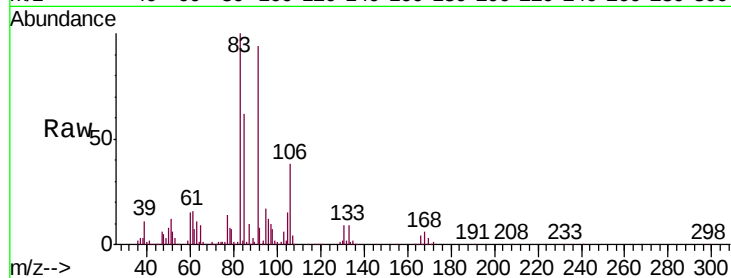
Tgt Ion: 83 Resp: 1555596

Ion Ratio Lower Upper

83 100

131 9.0 4.4 13.2

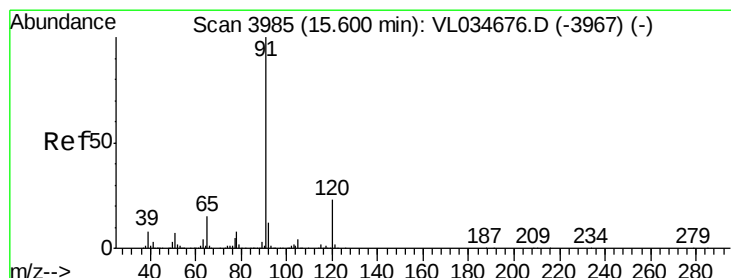
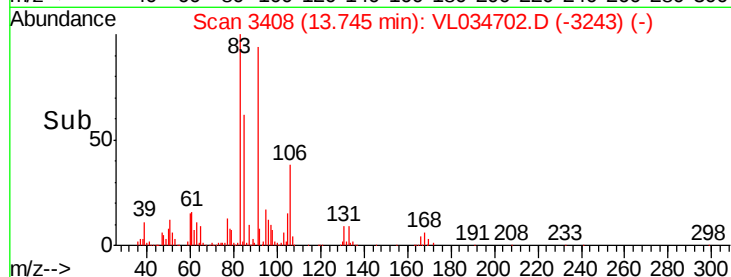
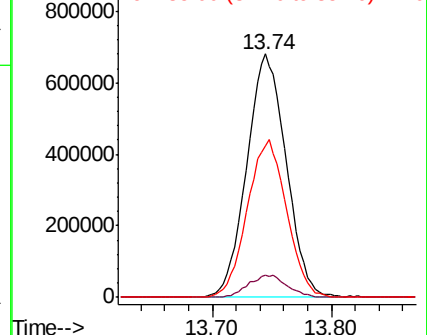
85 64.8 32.5 97.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.410 ppbv

RT: 15.63 min Scan# 3995

Delta R.T. 0.03 min

Lab File: VL034702.D

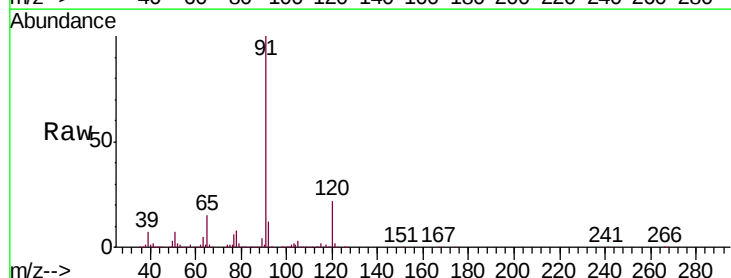
Acq: 27 Feb 2020 00:32

Tgt Ion: 120 Resp: 830760

Ion Ratio Lower Upper

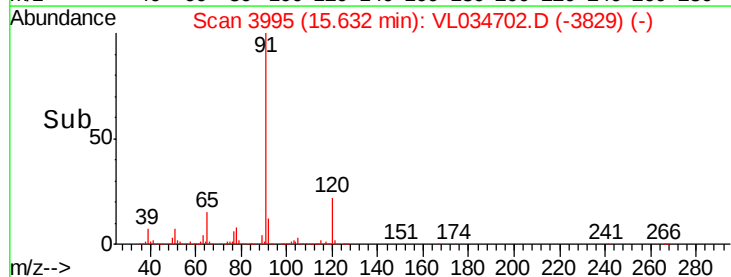
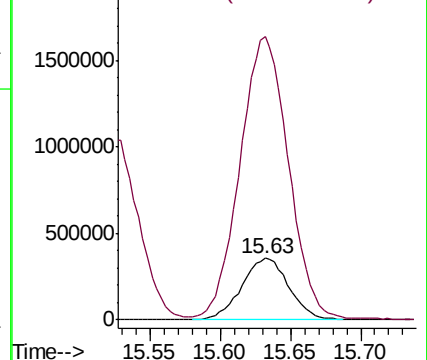
120 100

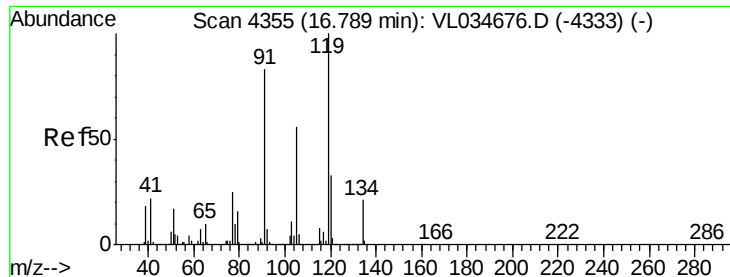
91 477.9 369.8 554.8



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

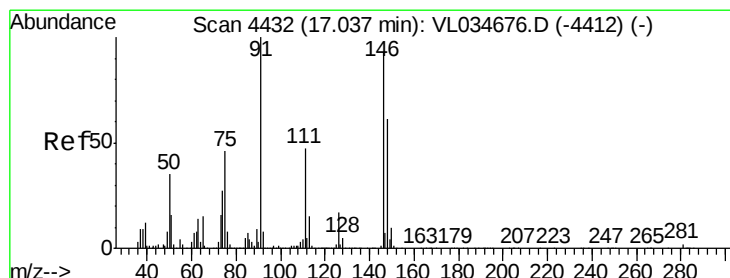
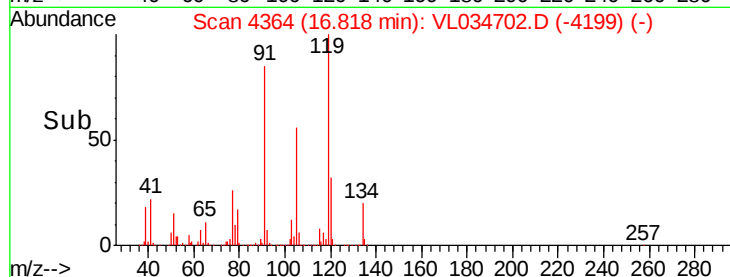
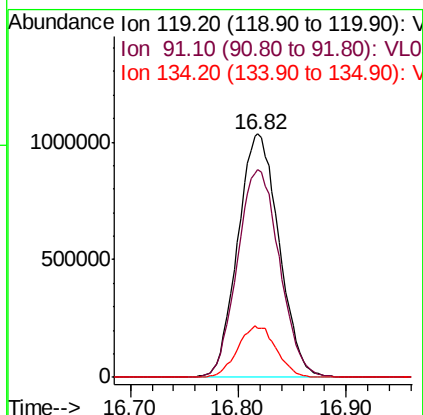
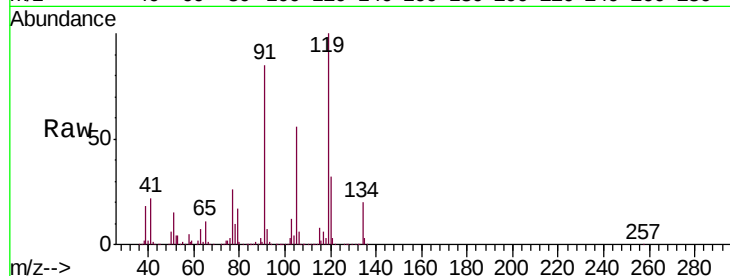




#65
 tert-Butylbenzene
 Concen: 9.298 ppbv
 RT: 16.82 min Scan# 4364
 Delta R.T. 0.03 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

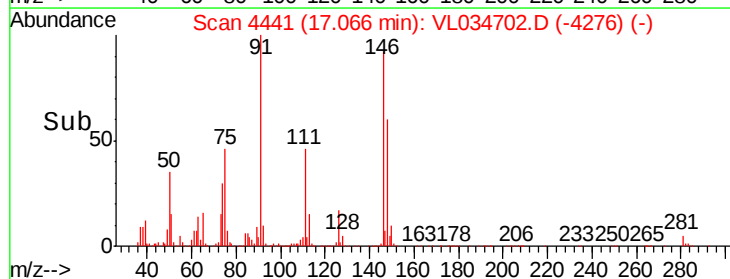
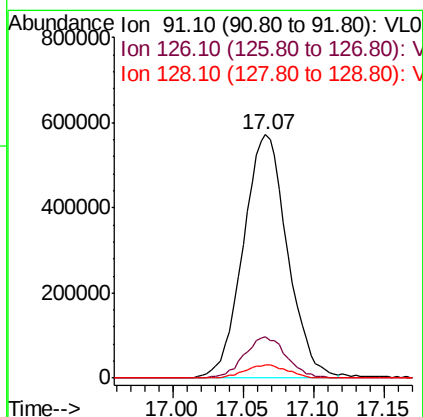
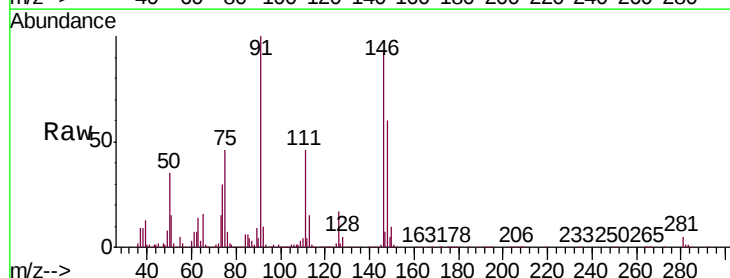
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

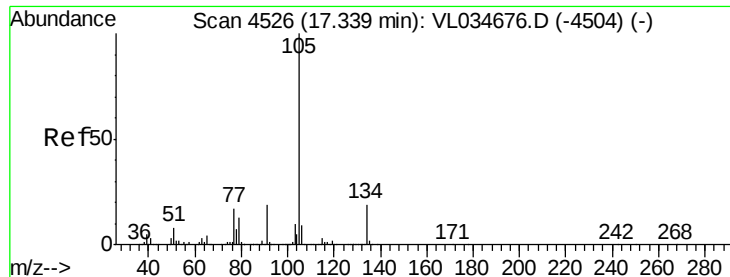
Tgt Ion: 119 Resp: 2749525
 Ion Ratio Lower Upper
 119 100
 91 87.3 69.1 103.7
 134 19.7 15.8 23.8



#66
 Benzyl Chloride
 Concen: 11.339 ppbv
 RT: 17.07 min Scan# 4441
 Delta R.T. 0.03 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Tgt Ion: 91 Resp: 1250709
 Ion Ratio Lower Upper
 91 100
 126 16.3 13.5 20.3
 128 5.3 4.2 6.4





#67

sec-Butylbenzene

Concen: 9.303 ppbv

RT: 17.37 min Scan# 4535

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

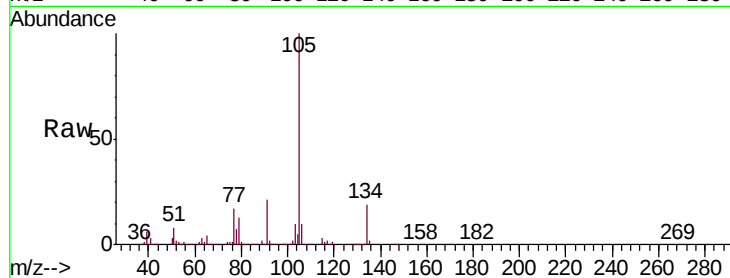
VSTDCCC010EC

Tgt Ion: 105 Resp: 3958470

Ion Ratio Lower Upper

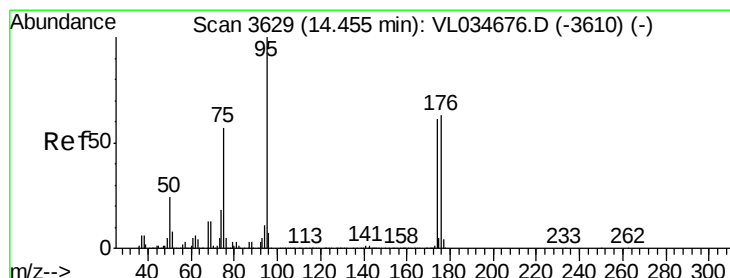
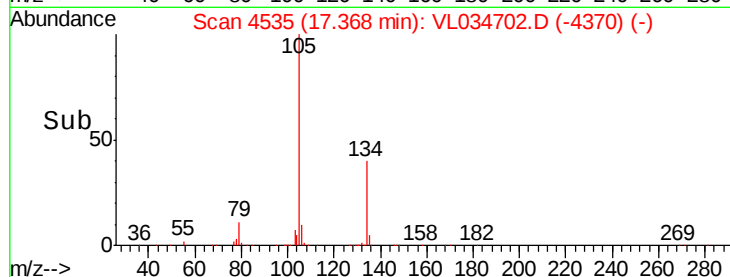
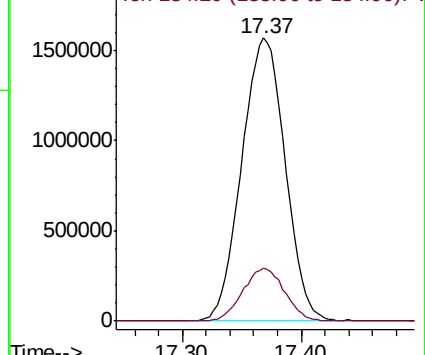
105 100

134 18.1 14.8 22.2



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: 9.791 ppbv

RT: 14.48 min Scan# 3638

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

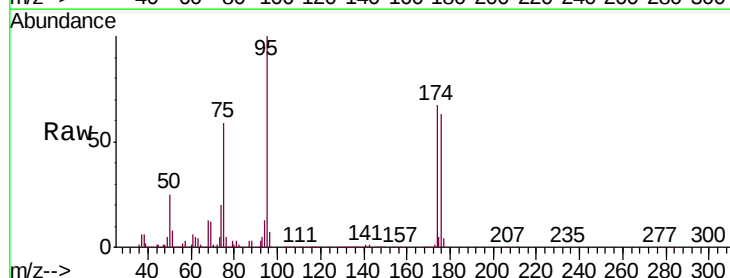
Tgt Ion: 95 Resp: 1799835

Ion Ratio Lower Upper

95 100

174 63.8 50.7 76.1

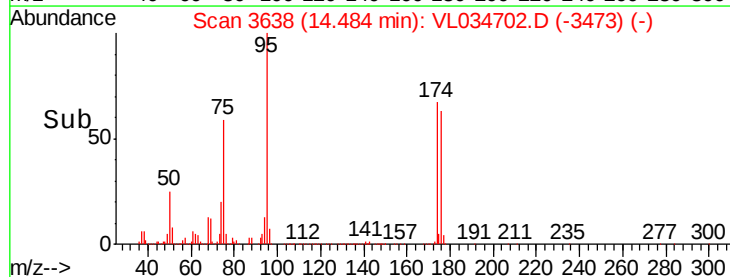
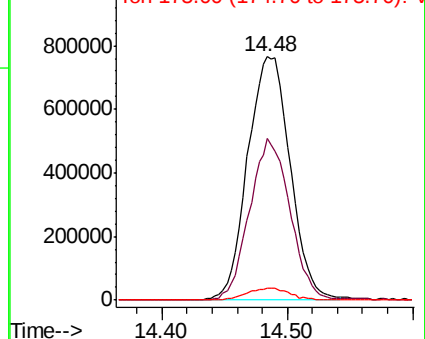
175 4.9 3.9 5.9

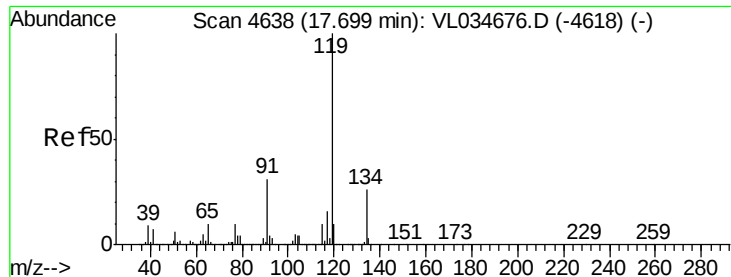


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

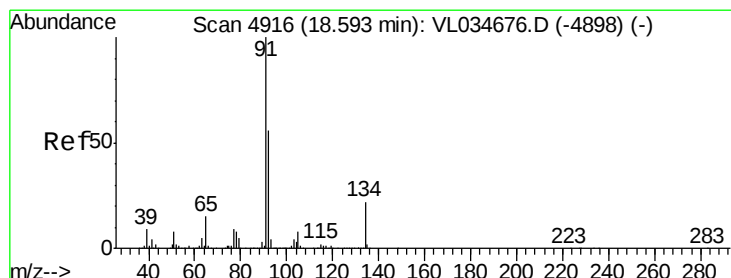
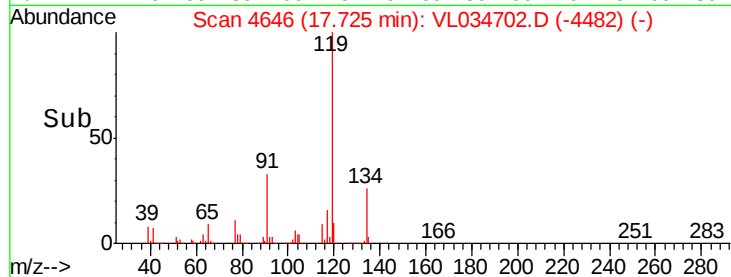
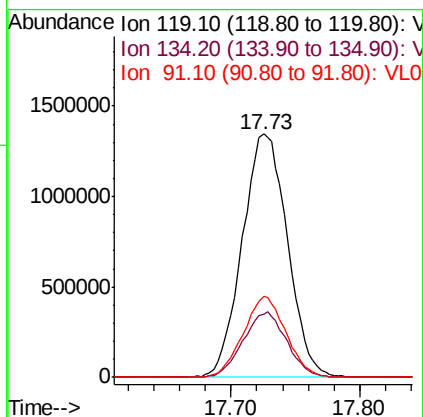
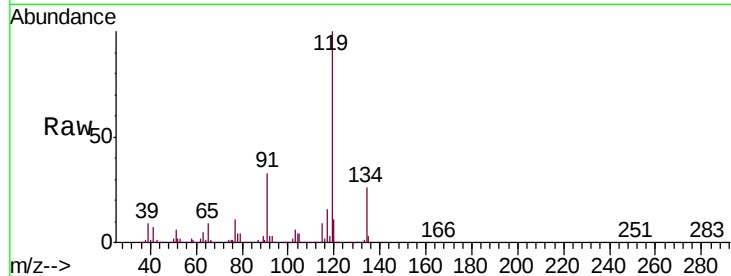




#69
p-Isopropyltoluene
Concen: 9.356 ppbv
RT: 17.73 min Scan# 4646
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

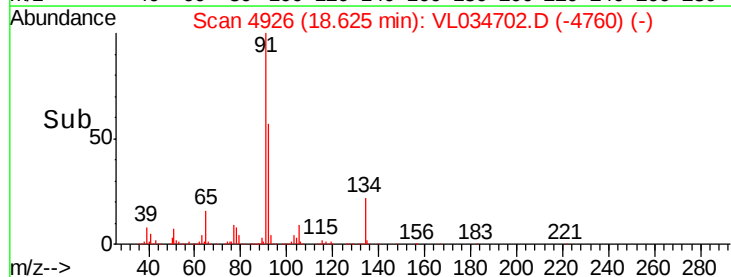
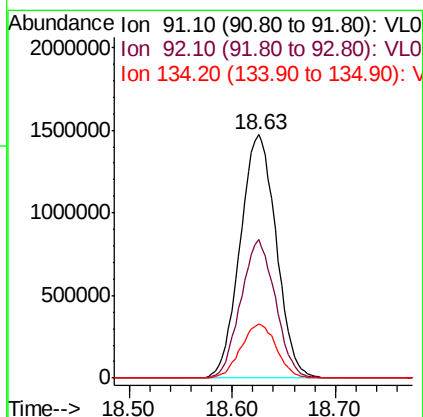
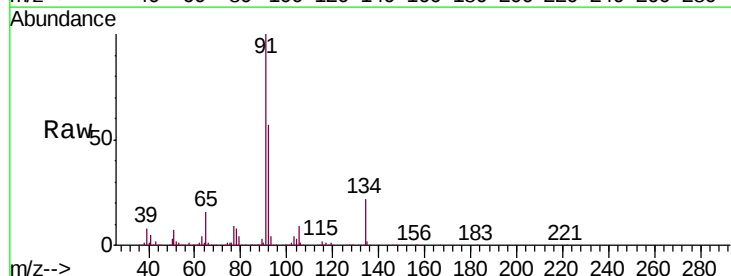
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

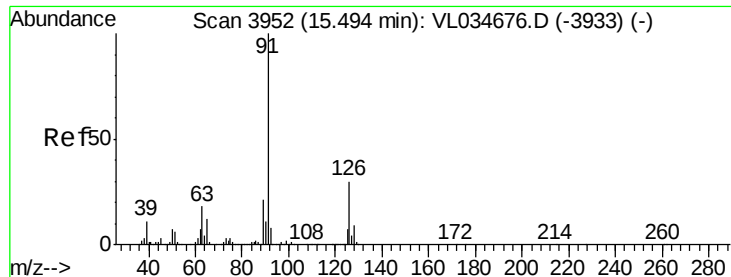
Tgt Ion: 119 Resp: 3277047
Ion Ratio Lower Upper
119 100
134 25.9 20.6 31.0
91 31.7 25.3 37.9



#70
n-Butylbenzene
Concen: 9.371 ppbv
RT: 18.63 min Scan# 4926
Delta R.T. 0.03 min
Lab File: VL034702.D
Acq: 27 Feb 2020 00:32

Tgt Ion: 91 Resp: 3574277
Ion Ratio Lower Upper
91 100
92 54.9 43.8 65.6
134 21.9 17.6 26.4





#71

2-Chlorotoluene

Concen: 9.387 ppbv

RT: 15.52 min Scan# 3961

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

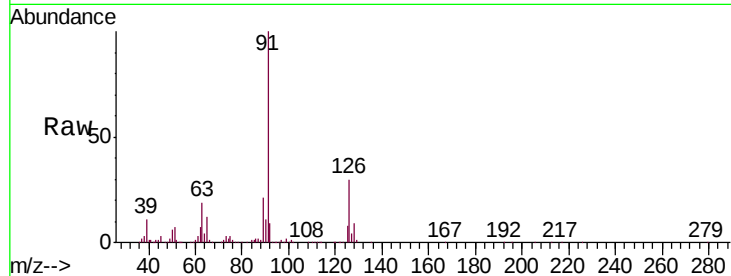
VSTDCCC010EC

Tgt Ion: 91 Resp: 2489676

Ion Ratio Lower Upper

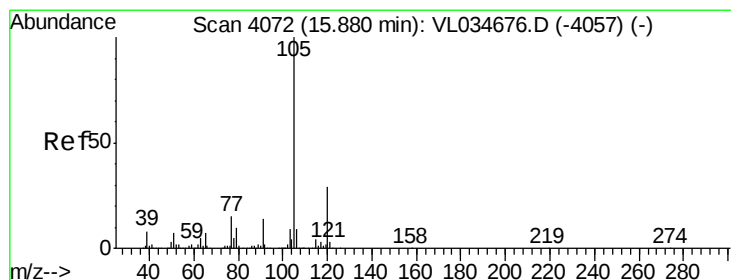
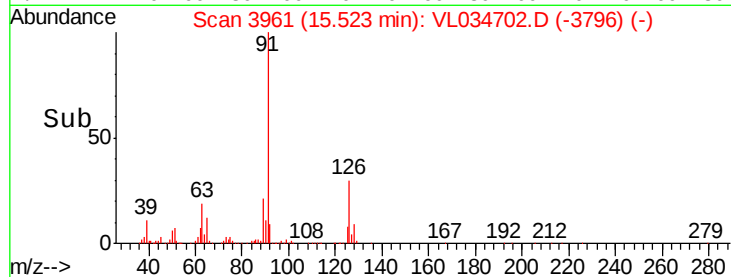
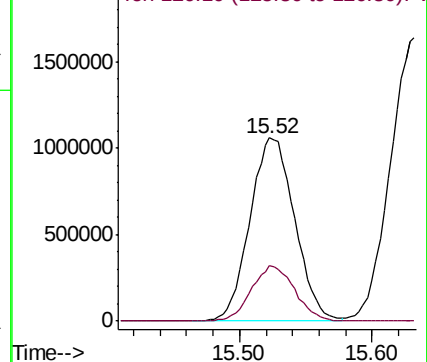
91 100

126 29.6 11.8 47.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.797 ppbv

RT: 15.91 min Scan# 4081

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Tgt Ion: 105 Resp: 2559767

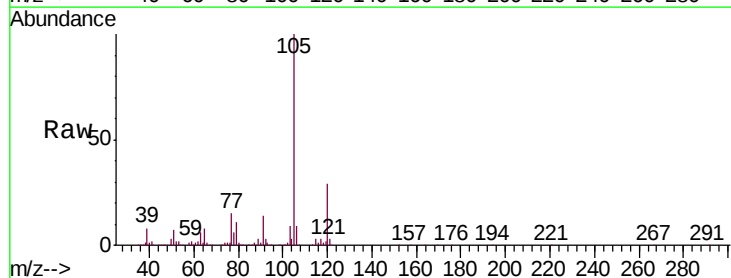
Ion Ratio Lower Upper

105 100

120 28.9 23.7 35.5

91 14.5 10.9 16.3

77 15.2 12.2 18.2

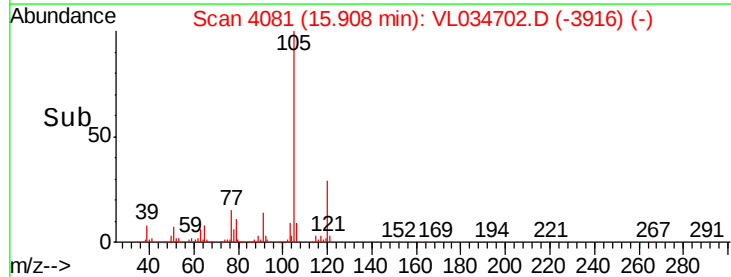
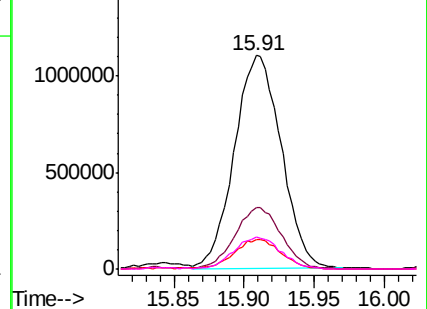


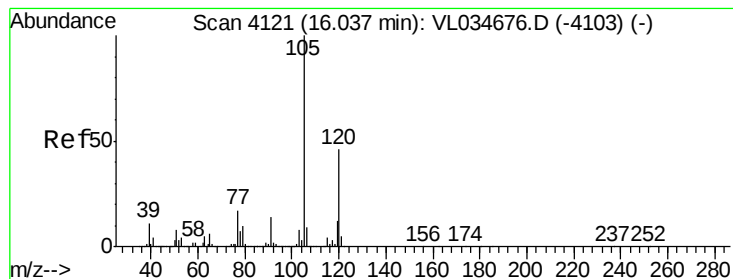
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.662 ppbv

RT: 16.07 min Scan# 4130

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

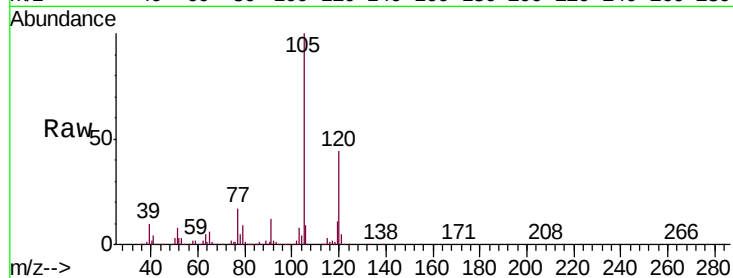
VSTDCCC010EC

Tgt Ion:105 Resp: 2428624

Ion Ratio Lower Upper

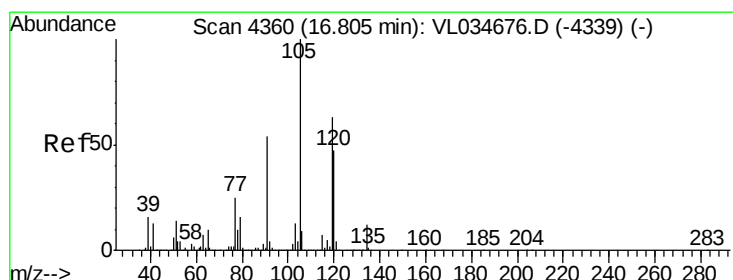
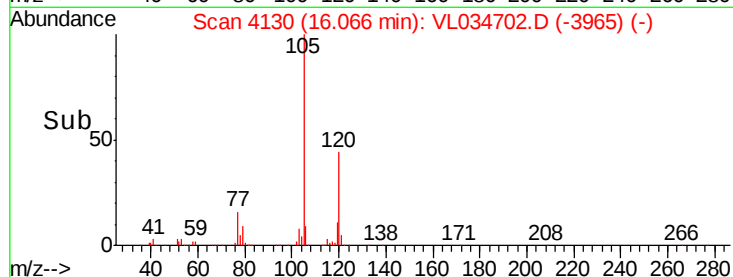
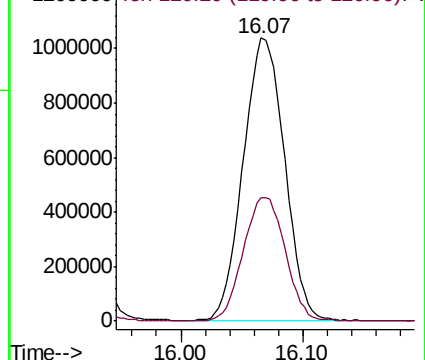
105 100

120 43.8 37.1 55.7



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: 9.179 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Tgt Ion:105 Resp: 2548097

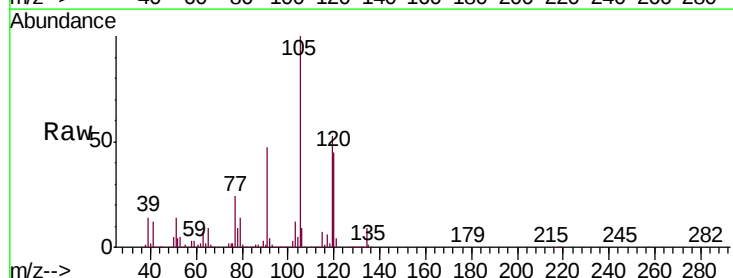
Ion Ratio Lower Upper

105 100

120 44.5 37.9 56.9

91 47.0 43.9 65.9

77 24.1 20.3 30.5

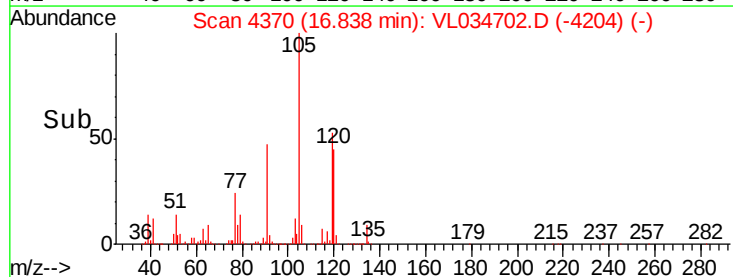
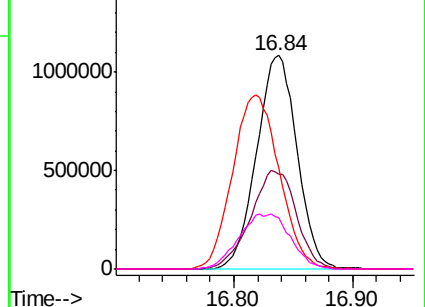


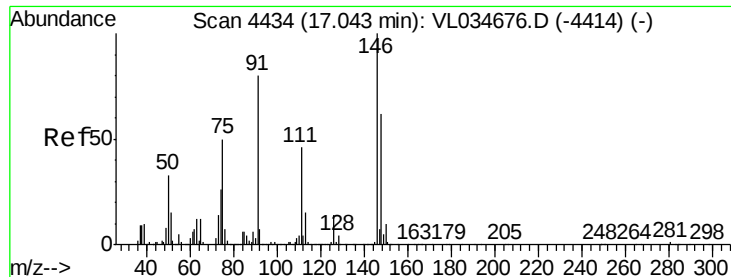
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.955 ppbv

RT: 17.07 min Scan# 4443

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

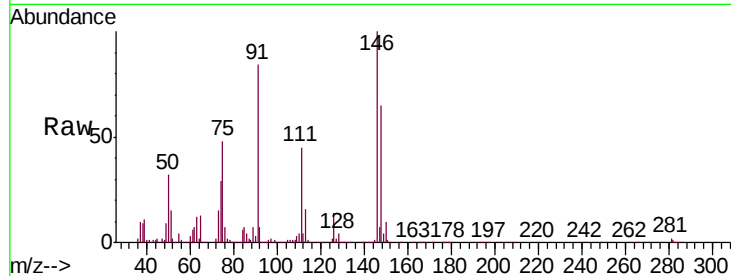
Tgt Ion:146 Resp: 1434876

Ion Ratio Lower Upper

146 100

111 48.7 24.4 73.2

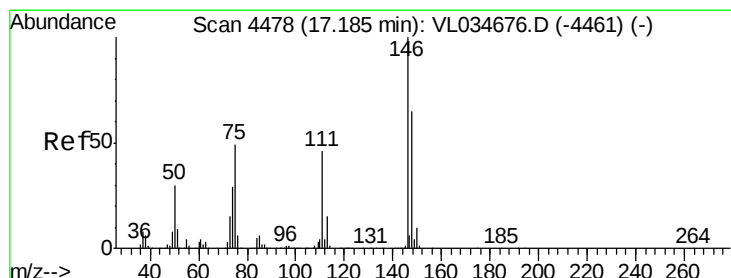
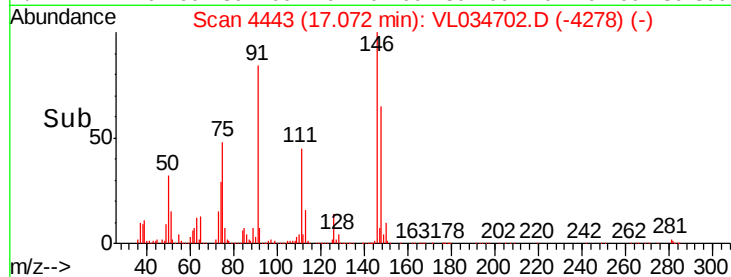
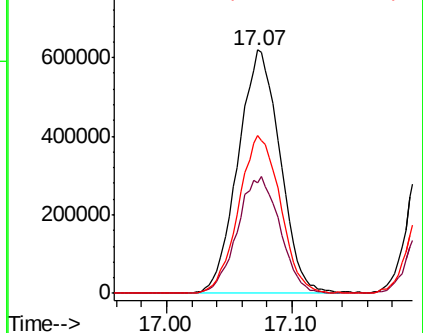
148 65.0 32.5 97.4



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: 9.015 ppbv

RT: 17.22 min Scan# 4488

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

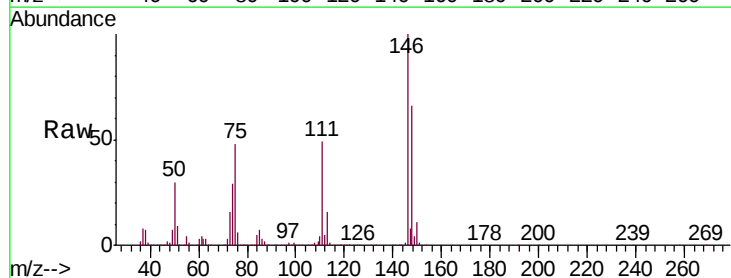
Tgt Ion:146 Resp: 1445321

Ion Ratio Lower Upper

146 100

111 48.0 23.4 70.0

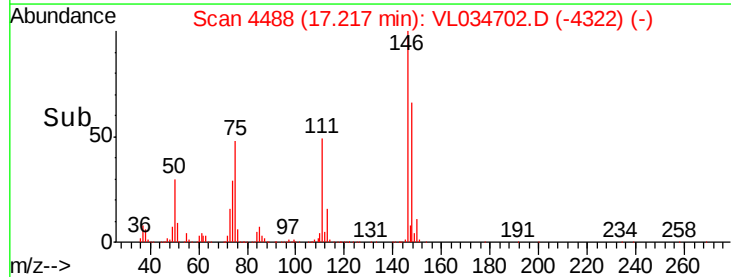
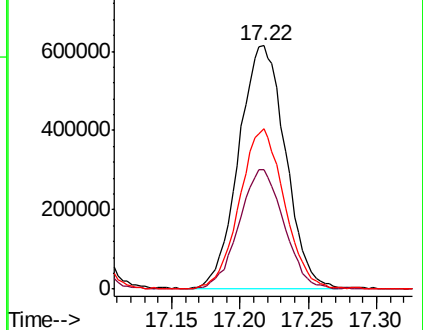
148 64.0 31.9 95.5

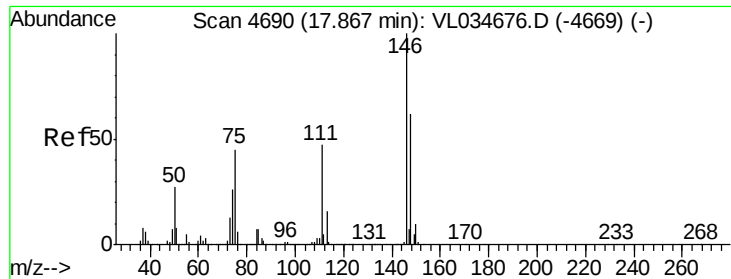


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

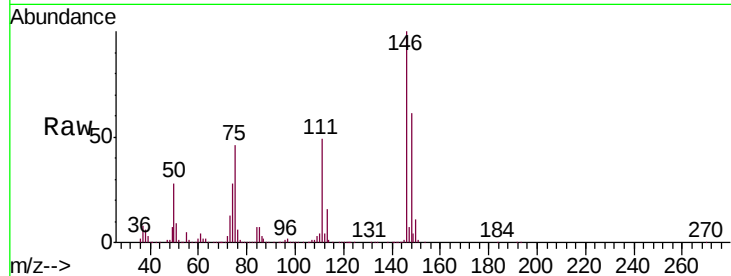




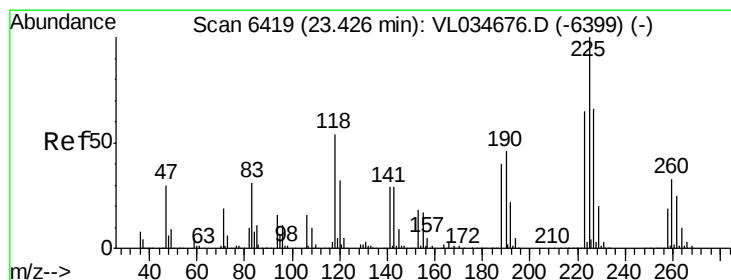
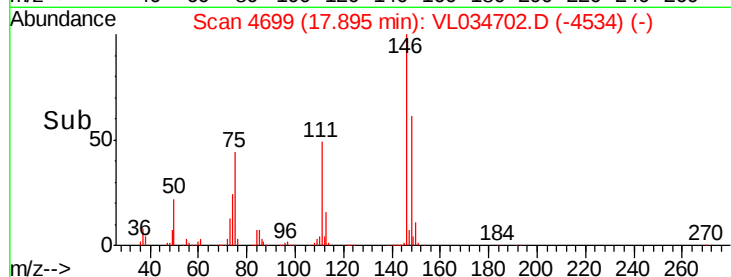
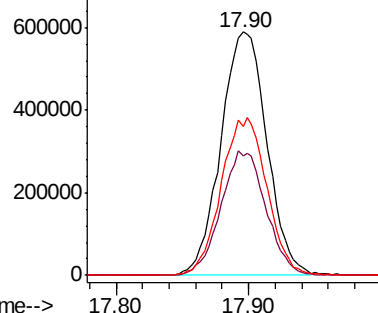
#77
 1,2-Dichlorobenzene
 Concen: 9.206 ppbv
 RT: 17.90 min Scan# 4699
 Delta R.T. 0.03 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tgt Ion:146 Resp: 1426121
 Ion Ratio Lower Upper
 146 100
 111 49.9 24.9 74.7
 148 64.8 32.0 96.0

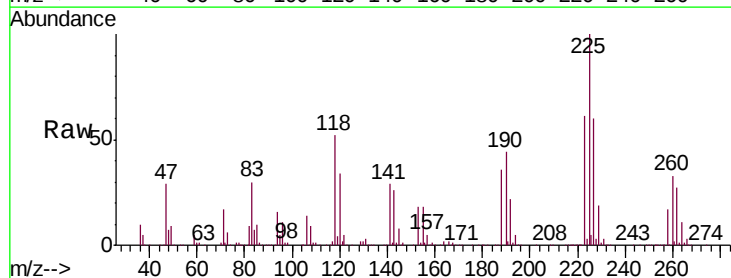


Abundance Ion 146.00 (145.70 to 146.70): V
 800000 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

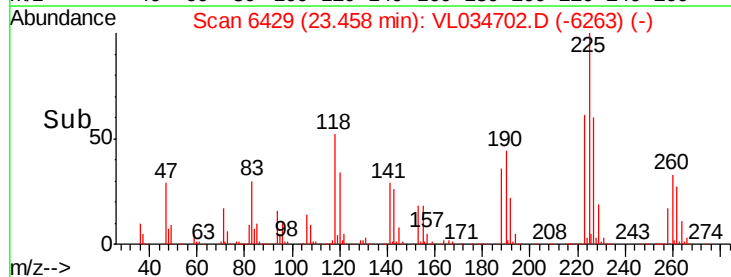
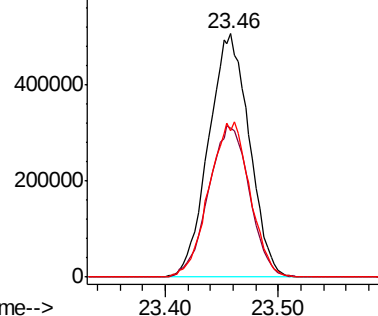


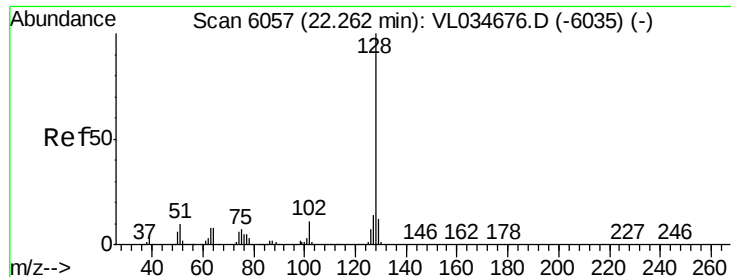
#78
 Hexachloro-1,3-Butadiene
 Concen: 9.400 ppbv
 RT: 23.46 min Scan# 6429
 Delta R.T. 0.03 min
 Lab File: VL034702.D
 Acq: 27 Feb 2020 00:32

Tgt Ion:225 Resp: 1267928
 Ion Ratio Lower Upper
 225 100
 223 62.7 51.3 76.9
 227 64.2 51.3 76.9



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: 10.491 ppbv

RT: 22.30 min Scan# 6069

Delta R.T. 0.04 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

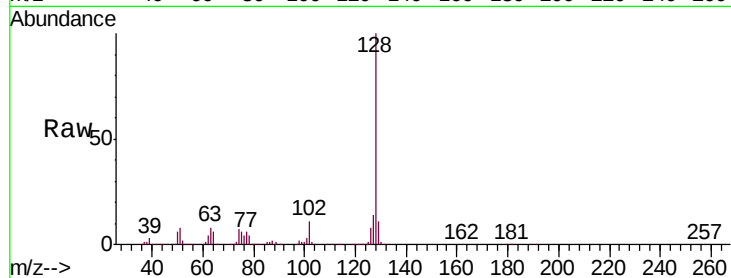
Tgt Ion:128 Resp: 2562998

Ion Ratio Lower Upper

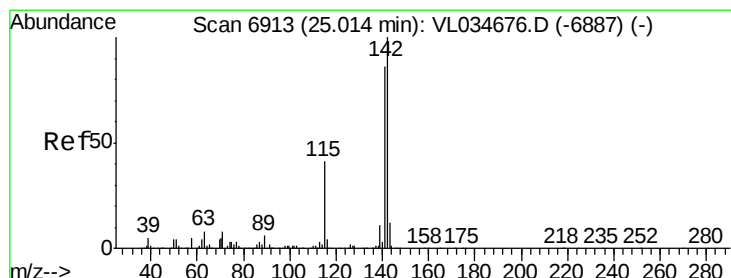
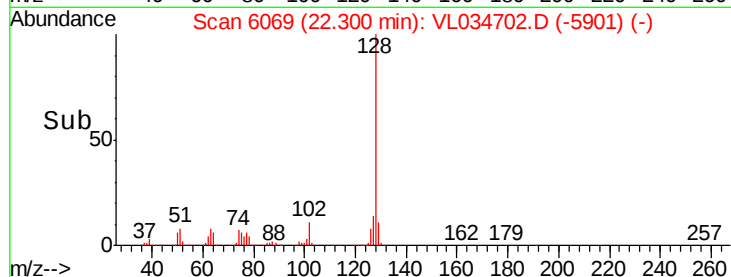
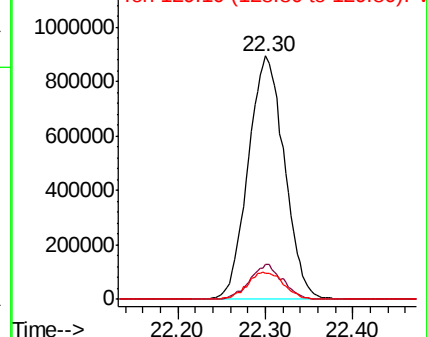
128 100

127 14.2 11.0 16.6

129 10.8 9.4 14.2



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: 14.698 ppbv

RT: 25.05 min Scan# 6923

Delta R.T. 0.03 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

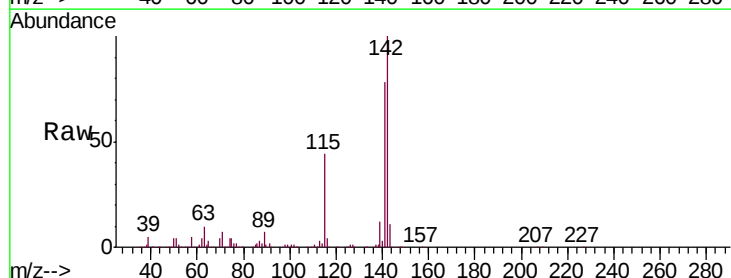
Tgt Ion:142 Resp: 1107501

Ion Ratio Lower Upper

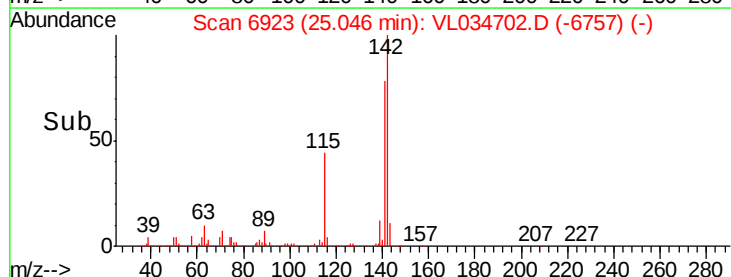
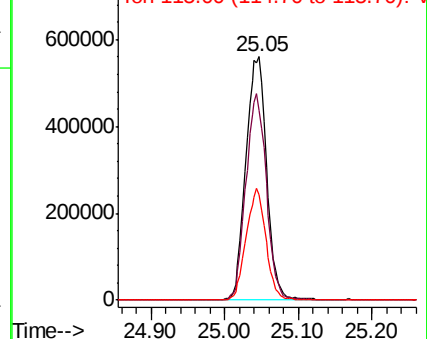
142 100

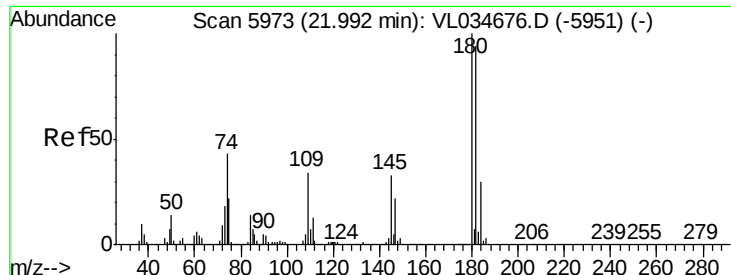
141 83.5 66.5 99.7

115 43.7 30.6 46.0



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: 9.946 ppbv

RT: 22.03 min Scan# 5985

Delta R.T. 0.04 min

Lab File: VL034702.D

Acq: 27 Feb 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion:180 Resp: 1450242

Ion Ratio Lower Upper

180 100

182 96.3 76.5 114.7

184 30.7 25.2 37.8

