

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034057.D
 Acq On : 30 Jul 2019 9:20
 Operator : SY/AP
 Sample : VL0730ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 31 02:10:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 06:55:18 2019
 QLast Update : Tue Jul 30 06:55:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1108263	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4281645	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	3202956	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2542960	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1726109	8.108	ppbv	95
3) Chlorodifluoromethane	2.99	51	1103668	8.627	ppbv	99
4) Chloromethane	3.14	50	627734	8.366	ppbv	98
5) Vinyl Chloride	3.26	62	689135	8.335	ppbv	97
6) Bromomethane	3.49	94	452284	8.689	ppbv	97
7) Chloroethane	3.57	64	295122	8.808	ppbv	92
8) Dichlorotetrafluoroethane	3.19	85	1785074	8.418	ppbv	99
9) Propene	3.01	41	409411	8.914	ppbv	99
10) Heptane	8.20	43	1328198	10.603	ppbv	99
11) Trichlorofluoromethane	3.97	101	2047236	8.647	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1465904	9.205	ppbv	100
13) Ethanol	3.62	45	46685	2.554	ppbv #	30
14) Bromoethene	3.76	108	595830	8.860	ppbv	97
15) Acetone	3.87	43	1339261	7.948	ppbv	100
16) 1,3-Butadiene	3.34	39	587284	8.976	ppbv	98
17) tert-Butyl alcohol	4.32	59	1377111	9.940	ppbv	99
18) 1,1-Dichloroethene	4.32	96	707363	9.805	ppbv	95
19) Isopropyl Alcohol	3.99	45	972356	8.450	ppbv	100
20) Methylene Chloride	4.37	84	596963	9.263	ppbv	97
21) Allyl Chloride	4.44	41	1006608	9.466	ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	673867	9.015	ppbv	95
23) Vinyl Acetate	5.12	43	1724981	9.560	ppbv	99
24) 1,1-Dichloroethane	5.05	63	1397644	8.719	ppbv	98
25) Ethyl Acetate	5.73	43	2387997	9.533	ppbv	99
26) Hexane	5.74	57	1069984	9.444	ppbv	98
27) Carbon Disulfide	4.58	76	1844945	10.457	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	1766040	9.158	ppbv	98
29) Chloroform	5.81	83	1862912	9.002	ppbv	95
30) Cyclohexane	7.20	84	1367728	11.881	ppbv	98
31) cis-1,2-Dichloroethene	5.60	61	1139124	10.316	ppbv	98
32) 1,1,1-Trichloroethane	6.58	97	1836985	8.458	ppbv	99
34) 2-Butanone	5.29	43	1353132	7.679	ppbv	99
35) Carbon Tetrachloride	7.09	117	3076960	10.183	ppbv	97
36) Benzene	6.96	78	3118959	10.943	ppbv	96
37) 1,2-Dichloroethane	6.37	62	1460438	7.457	ppbv	99
38) Trichloroethene	7.91	130	1020857	8.547	ppbv	96
39) 1,2-Dichloropropane	7.69	63	1181528	10.215	ppbv	93
40) 1,4-Dioxane	7.91	88	383124	8.388	ppbv	90
41) Tetrahydrofuran	6.10	42	750911	8.389	ppbv	99
42) Bromodichloromethane	7.87	83	2221668	8.204	ppbv	95
43) Methyl Methacrylate	8.09	69	937668	9.230	ppbv	99

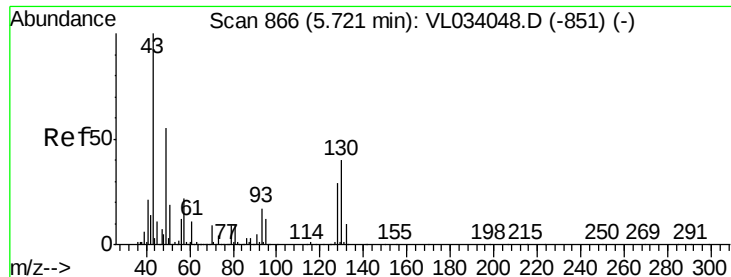
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 06:55:18 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3953557	8.354	ppbv	100
45) t-1,3-Dichloropropene	9.37	75	1356364	10.377	ppbv	99
46) cis-1,3-Dichloropropene	8.79	75	1521640	10.357	ppbv	98
47) 1,1,2-Trichloroethane	9.57	97	1049062	8.719	ppbv	98
48) Dibromochloromethane	10.41	129	1931961	8.411	ppbv	98
49) Bromoform	13.15	173	1854667	9.262	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	2426826	9.277	ppbv	98
51) 2-Hexanone	10.23	43	2020835	9.289	ppbv	100
52) Tetrachloroethene	11.32	164	1008854	9.027	ppbv	98
53) Toluene	9.90	91	2951701	9.925	ppbv	100
54) 1,2-Dibromoethane	10.71	107	1631696	9.137	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.23	131	1319782	9.221	ppbv	97
57) Chlorobenzene	12.25	112	2302297	9.278	ppbv	98
58) Ethyl Benzene	12.81	91	4117076	10.861	ppbv	98
59) m/p-Xylene	13.10	91	2895448	8.403	ppbv #	4
60) o-Xylene	13.80	91	3452995	10.082	ppbv	100
61) Styrene	13.63	104	2569170	11.360	ppbv	99
62) Isopropylbenzene	14.78	105	4608774	10.045	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	2394135	9.109	ppbv	100
64) n-propylbenzene	15.67	120	1147213	9.655	ppbv	97
65) tert-Butylbenzene	16.86	119	4100631	9.695	ppbv	99
66) Benzyl Chloride	17.10	91	2260228	10.649	ppbv	99
67) sec-Butylbenzene	17.41	105	5727654	9.526	ppbv	100
69) p-Isopropyltoluene	17.77	119	4768839	9.731	ppbv	100
70) n-Butylbenzene	18.66	91	4987225	9.614	ppbv	99
71) 2-Chlorotoluene	15.56	91	3461369	10.391	ppbv	100
72) 4-Ethyltoluene	15.95	105	4046900	10.450	ppbv	99
73) 1,3,5-Trimethylbenzene	16.11	105	3769886	9.565	ppbv	98
74) 1,2,4-Trimethylbenzene	16.87	105	4001372	9.242	ppbv #	86
75) 1,3-Dichlorobenzene	17.12	146	2358953	8.733	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	2355300	9.239	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2246388	9.033	ppbv	100
78) Hexachloro-1,3-Butadiene	23.49	225	1863167	8.144	ppbv	100
79) Naphthalene	22.35	128	3724355	9.868	ppbv	97
80) Naphthalene, 2-methyl-	25.07	142	1223909	9.301	ppbv	99
81) 1,2,4-Trichlorobenzene	22.07	180	2248565	9.242	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 866

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

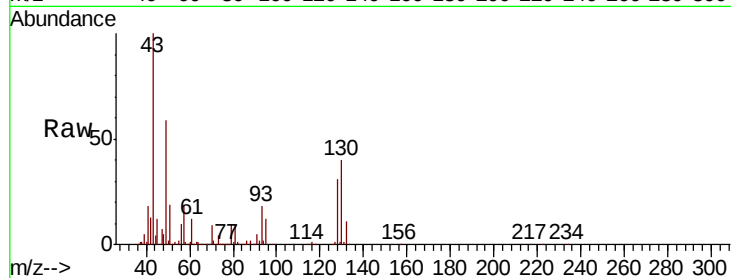
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 49 Resp: 1108263

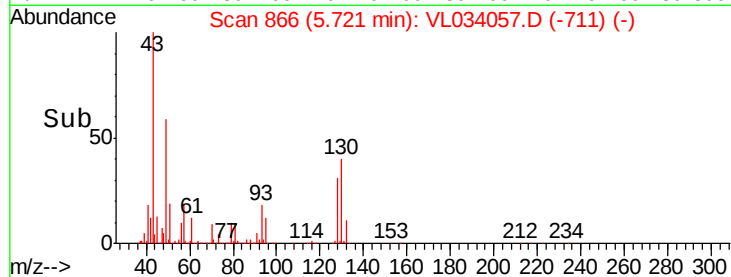
Ion	Ratio	Lower	Upper
49	100		
128	55.1	27.0	81.0
130	70.0	35.0	105.0



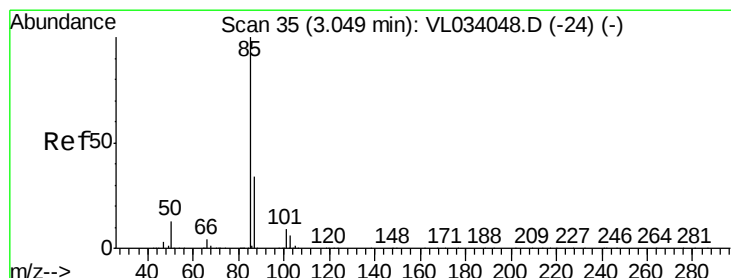
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 8.108 ppbv

RT: 3.05 min Scan# 35

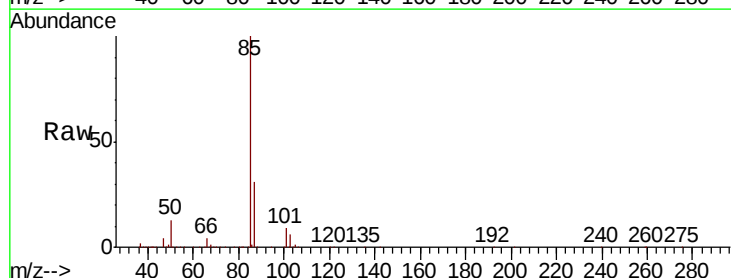
Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

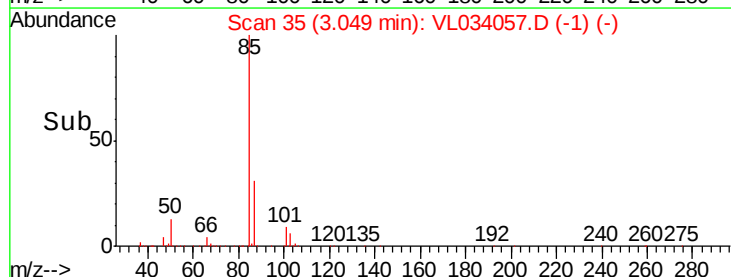
Tgt Ion: 85 Resp: 1726109

Ion	Ratio	Lower	Upper
85	100		
87	30.9	27.0	40.4

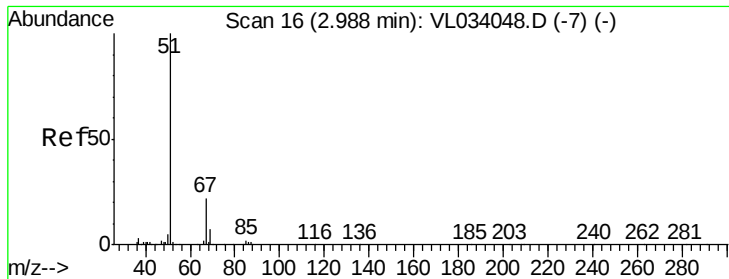


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



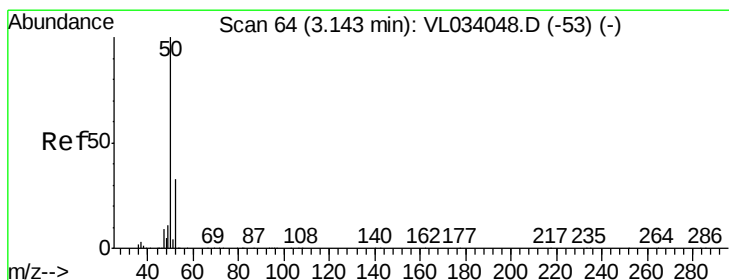
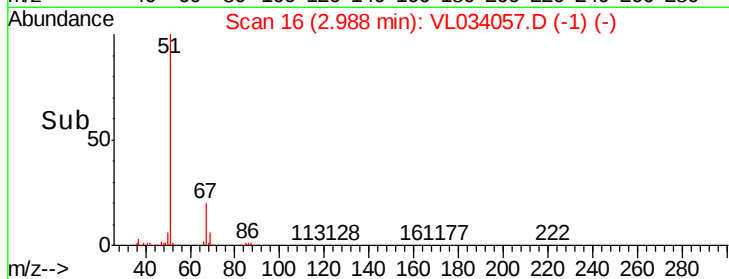
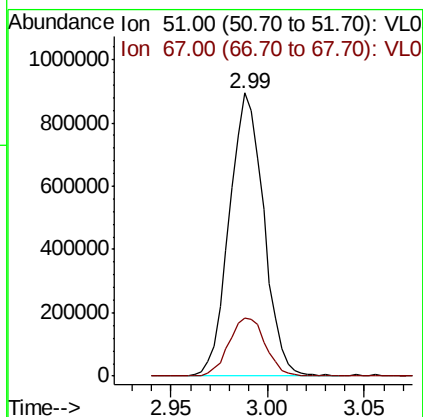
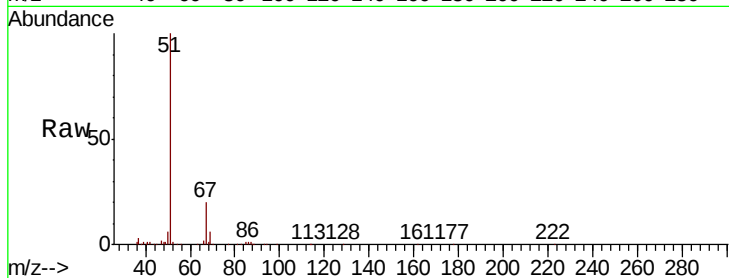
Time-->



#3
 Chlorodifluoromethane
 Concen: 8.627 ppbv
 RT: 2.99 min Scan# 16
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

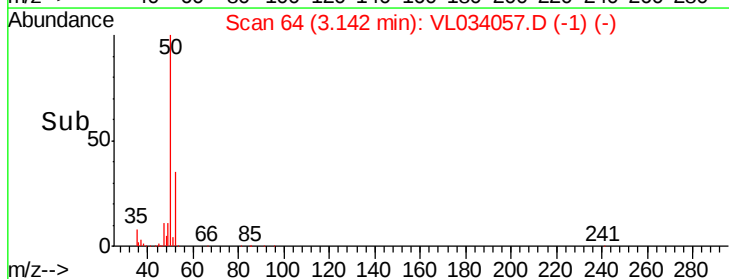
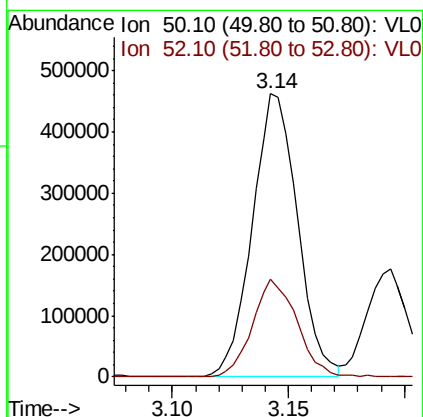
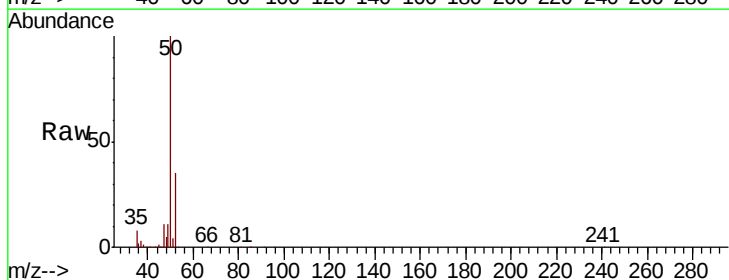
Instrument :
 MSVOA_L
 ClientSampleId :

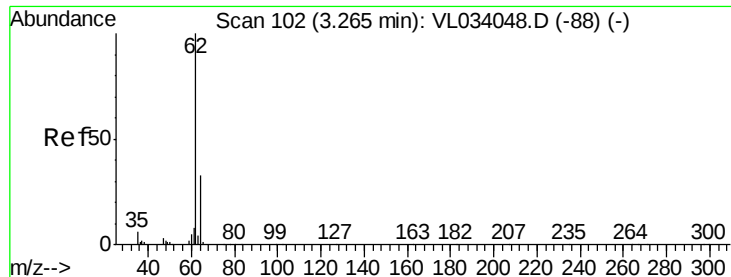
Tot Ion: 51 Resp: 1103668
 Ion Ratio Lower Upper
 51 100
 67 22.1 17.4 26.0



#4
 Chloromethane
 Concen: 8.366 ppbv
 RT: 3.14 min Scan# 64
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 50 Resp: 627734
 Ion Ratio Lower Upper
 50 100
 52 34.8 26.7 40.1





#5

Vinyl Chloride

Concen: 8.335 ppbv

RT: 3.26 min Scan# 102

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

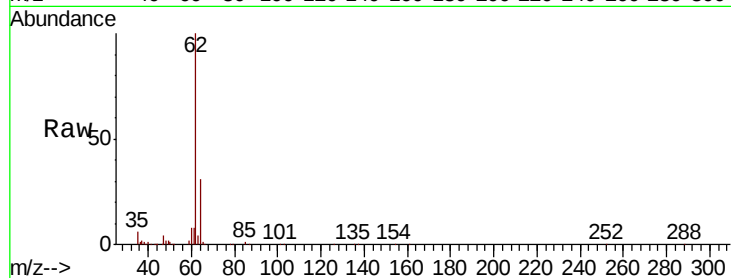
ClientSampled :

Tot Ion: 62 Resp: 689135

Ion Ratio Lower Upper

62 100

64 31.2 26.5 39.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.26

600000

500000

400000

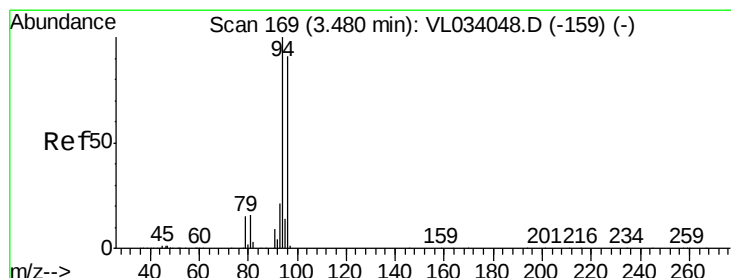
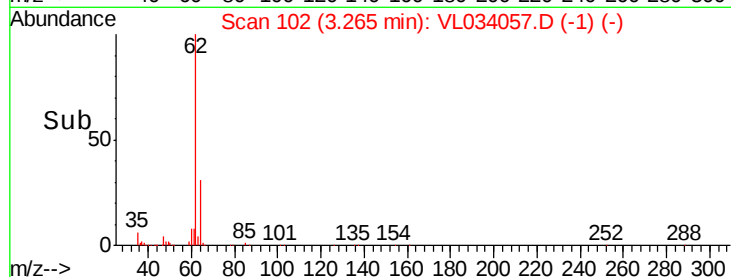
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 8.689 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034057.D

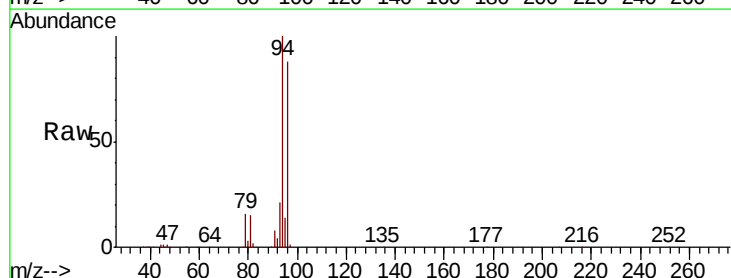
Acq: 30 Jul 2019 9:20

Tgt Ion: 94 Resp: 452284

Ion Ratio Lower Upper

94 100

96 88.2 72.6 108.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.49

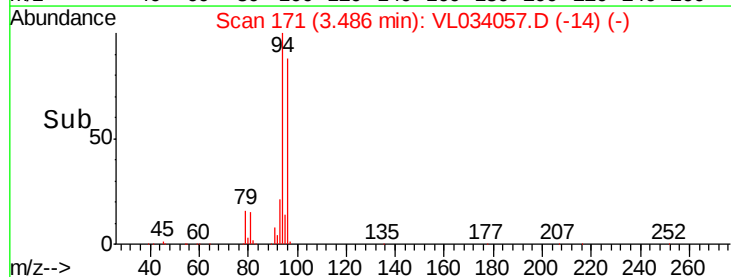
300000

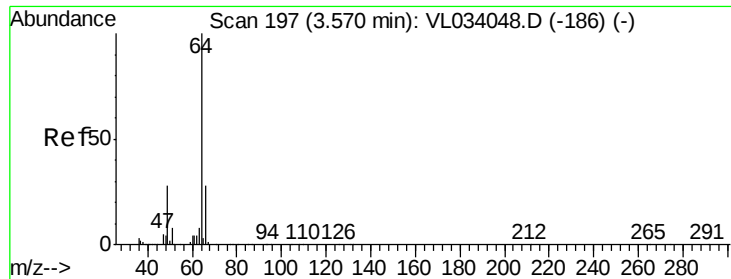
200000

100000

0

Time-->





#7

Chloroethane

Concen: 8.808 ppbv

RT: 3.57 min Scan# 197

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

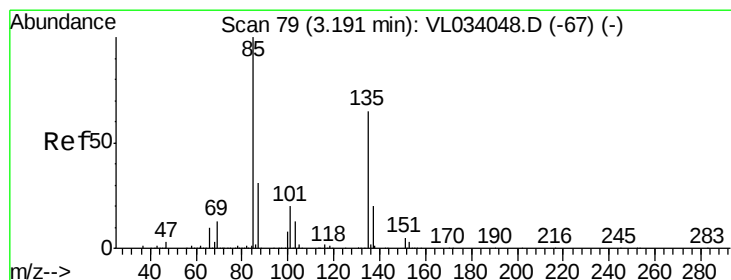
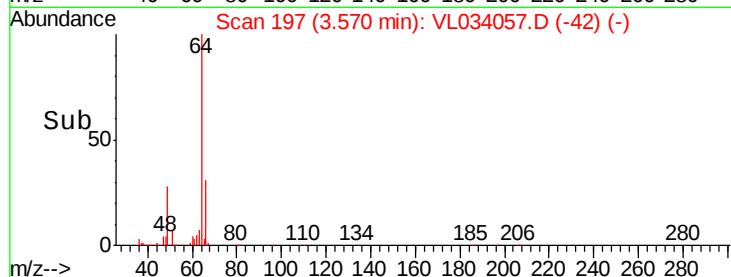
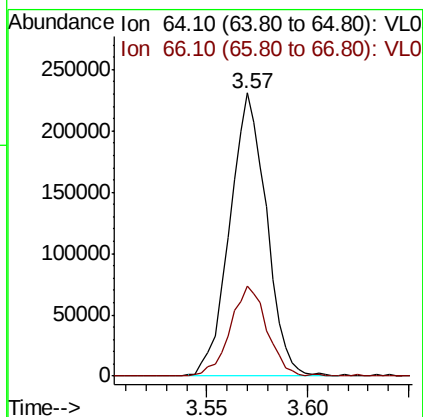
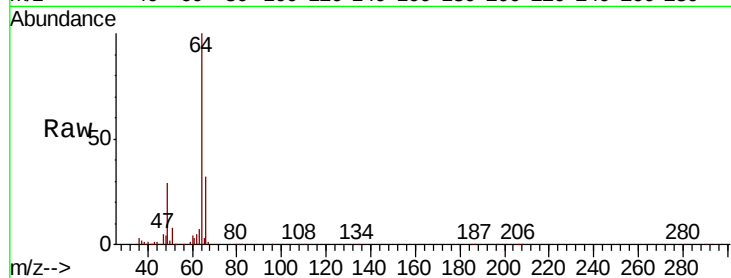
ClientSampleId :

Tot Ion: 64 Resp: 295122

Ion Ratio Lower Upper

64 100

66 31.9 22.0 33.0



#8

Dichlorotetrafluoroethane

Concen: 8.418 ppbv

RT: 3.19 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL034057.D

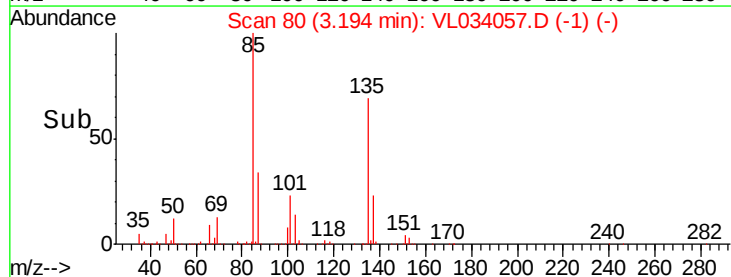
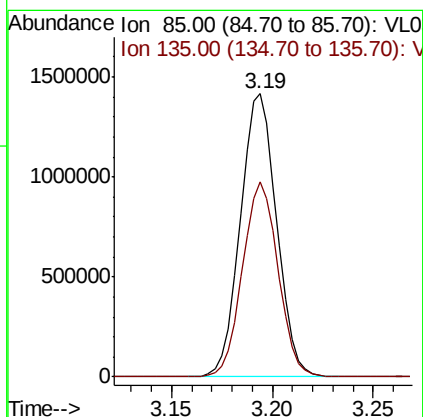
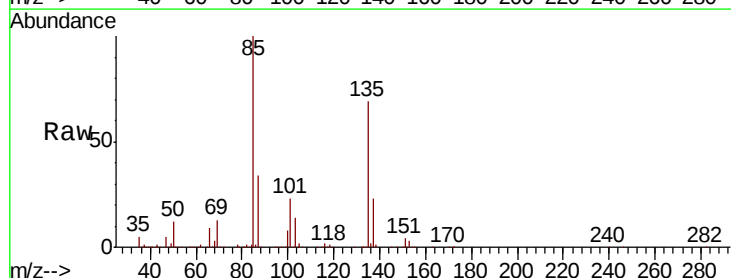
Acq: 30 Jul 2019 9:20

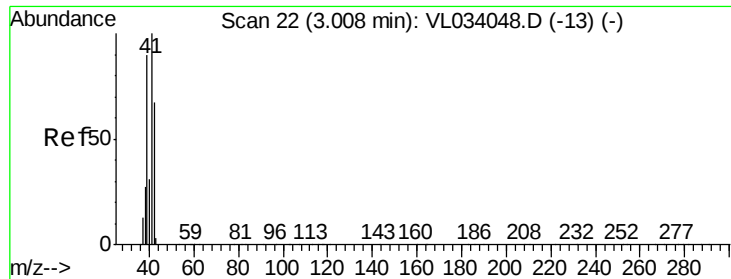
Tgt Ion: 85 Resp: 1785074

Ion Ratio Lower Upper

85 100

135 68.0 54.1 81.1





#9

Propene

Concen: 8.914 ppbv

RT: 3.01 min Scan# 23

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

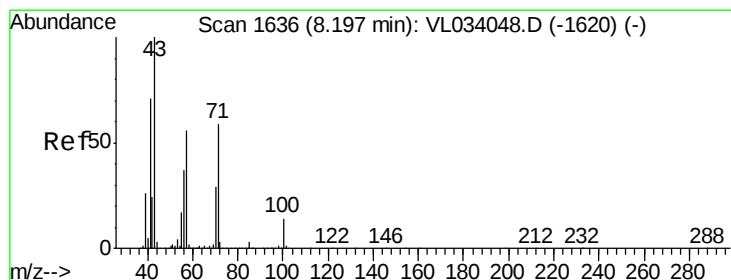
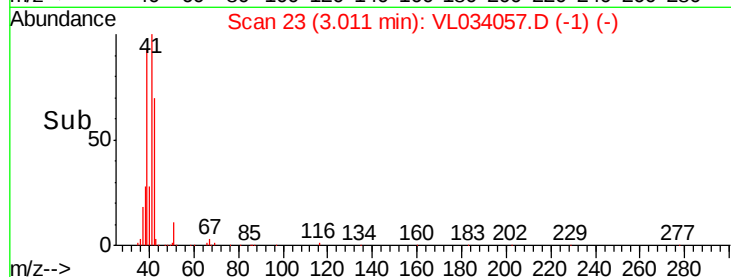
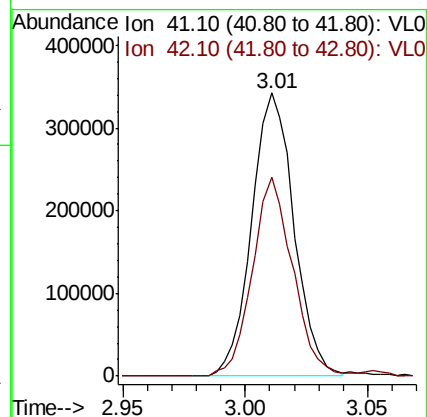
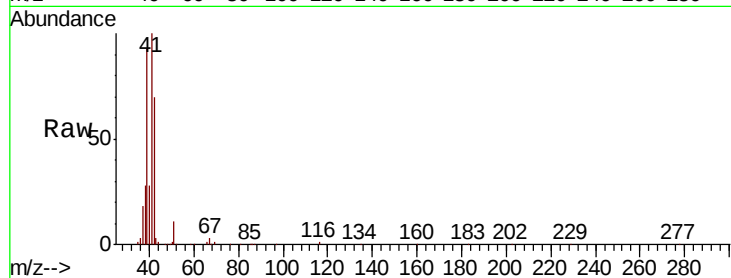
ClientSampleId :

Tot Ion: 41 Resp: 409411

Ion Ratio Lower Upper

41 100

42 68.5 55.4 83.2



#10

Heptane

Concen: 10.603 ppbv

RT: 8.20 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VL034057.D

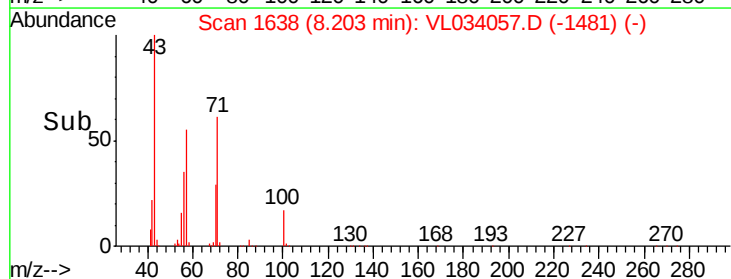
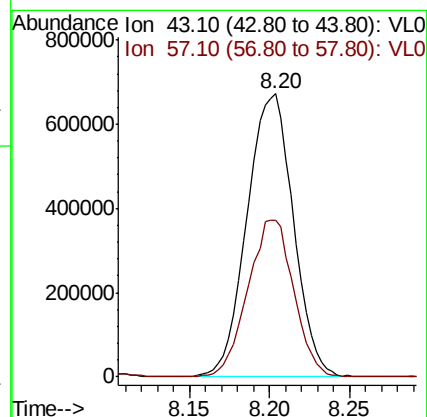
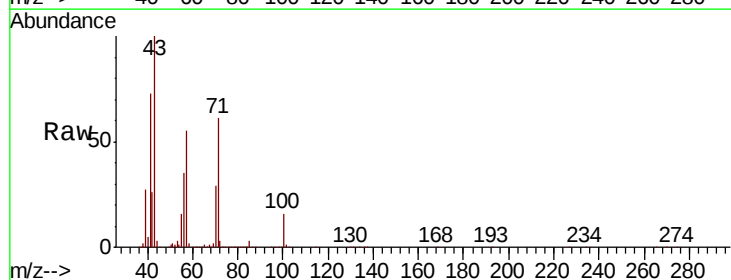
Acq: 30 Jul 2019 9:20

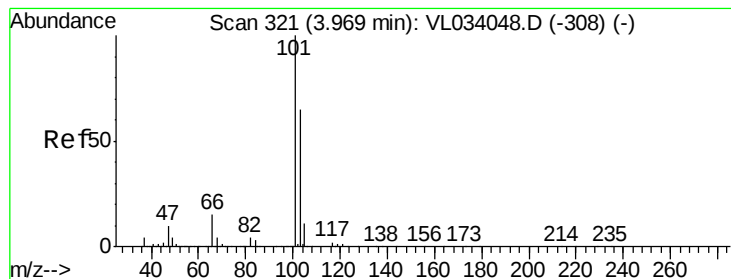
Tgt Ion: 43 Resp: 1328198

Ion Ratio Lower Upper

43 100

57 55.2 44.8 67.2





#11

Trichlorofluoromethane

Concen: 8.647 ppbv

RT: 3.97 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

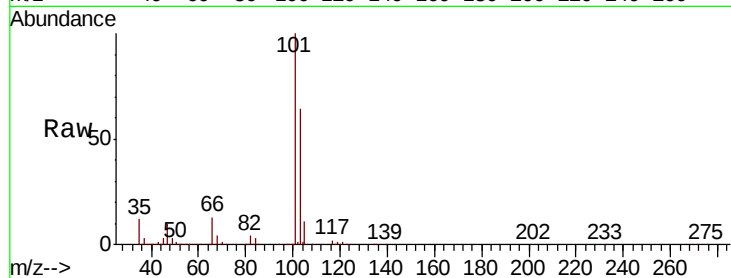
ClientSampleId :

Tot Ion:101 Resp: 2047236

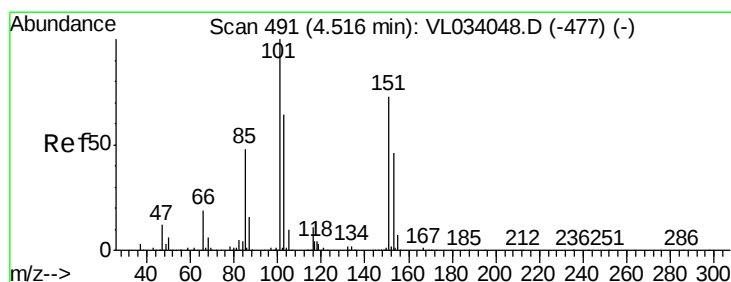
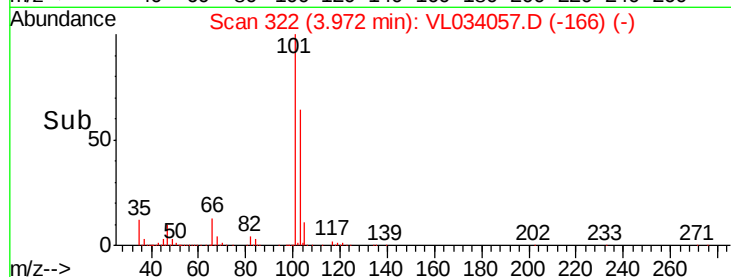
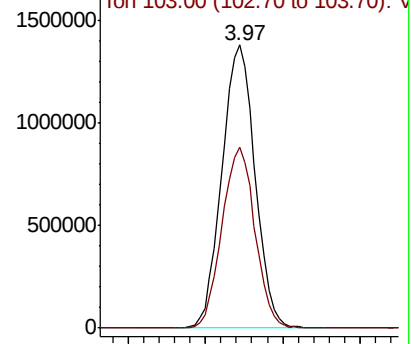
Ion Ratio Lower Upper

101 100

103 64.2 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.205 ppbv

RT: 4.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: VL034057.D

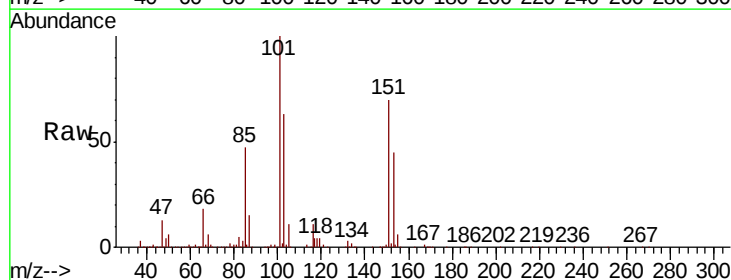
Acq: 30 Jul 2019 9:20

Tgt Ion:101 Resp: 1465904

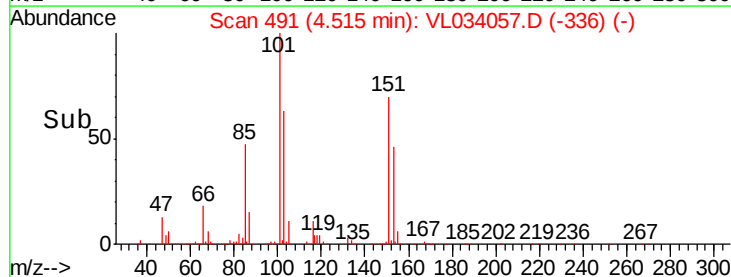
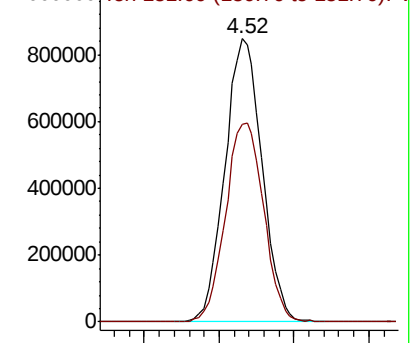
Ion Ratio Lower Upper

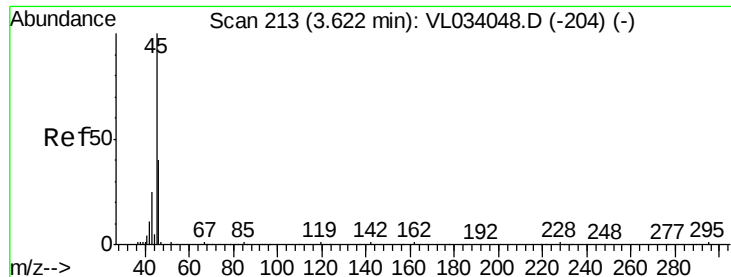
101 100

151 72.0 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

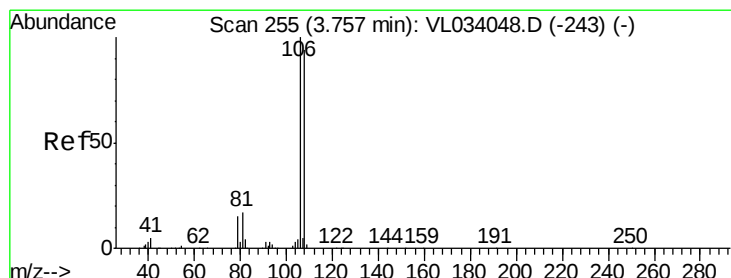
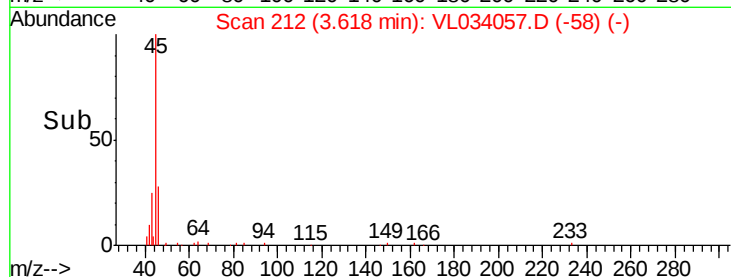
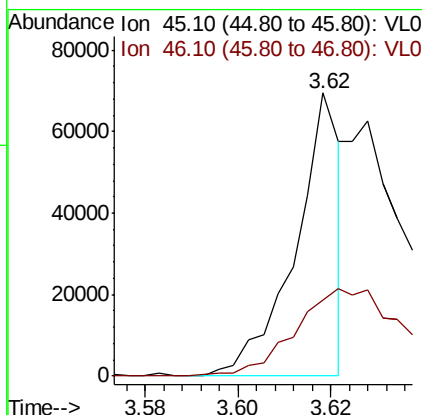
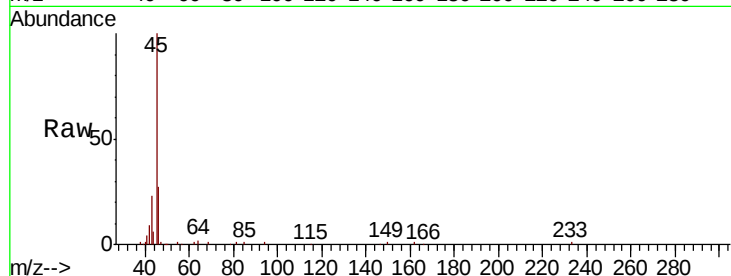




#13
Ethanol
Concen: 2.554 ppbv
RT: 3.62 min Scan# 212
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

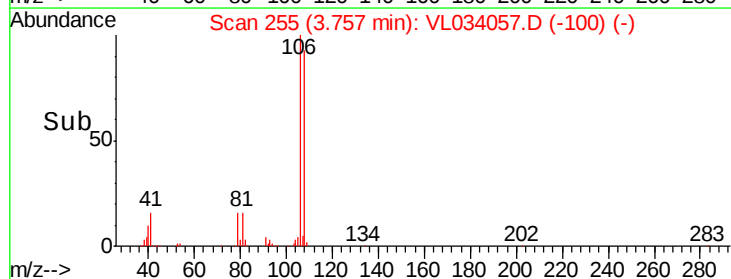
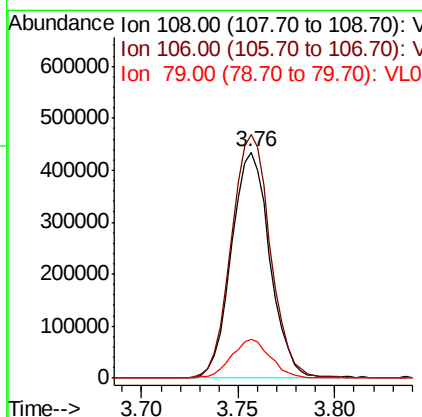
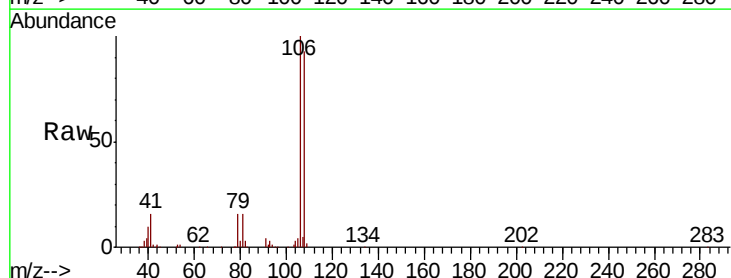
Instrument :
MSVOA_L
ClientSampleId :

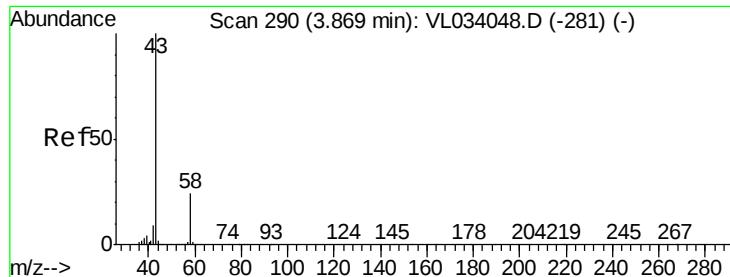
Tot Ion: 45 Resp: 46685
Ion Ratio Lower Upper
45 100
46 81.4 15.6 62.2#



#14
Bromoethene
Concen: 8.860 ppbv
RT: 3.76 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 108 Resp: 595830
Ion Ratio Lower Upper
108 100
106 110.6 86.2 129.2
79 17.5 13.7 20.5





#15

Acetone

Concen: 7.948 ppbv

RT: 3.87 min Scan# 290

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

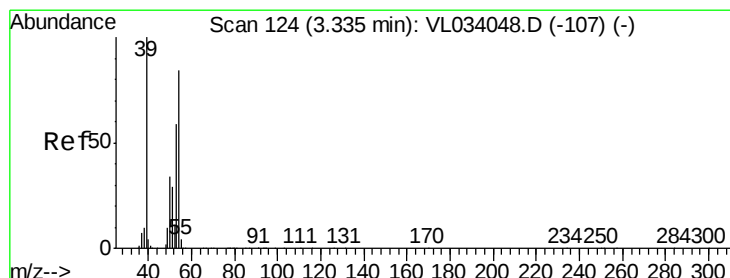
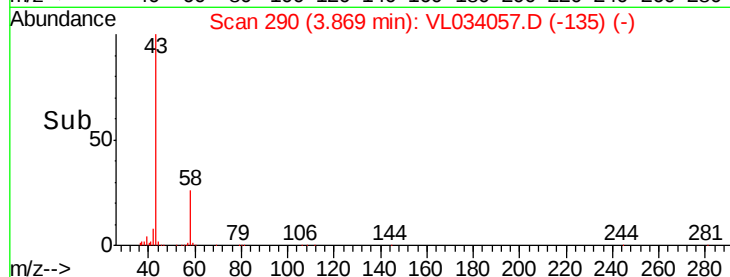
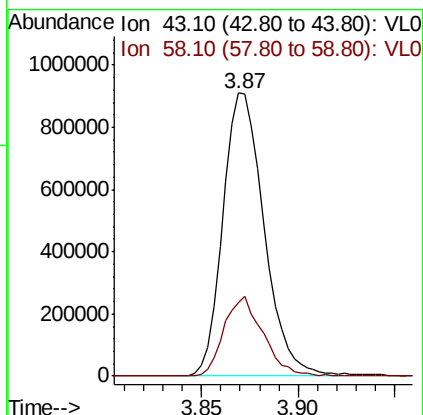
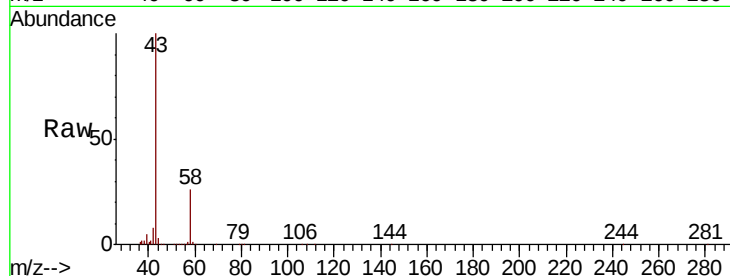
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1339261

Ion Ratio Lower Upper

43 100

58 27.1 21.6 32.4



#16

1,3-Butadiene

Concen: 8.976 ppbv

RT: 3.34 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL034057.D

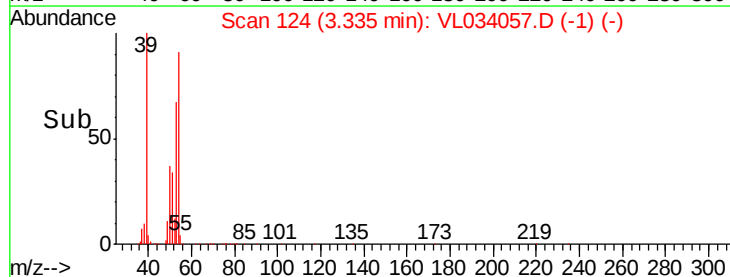
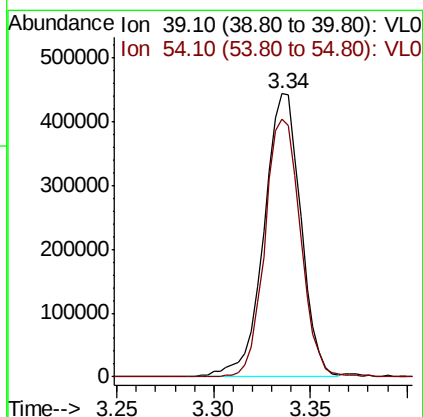
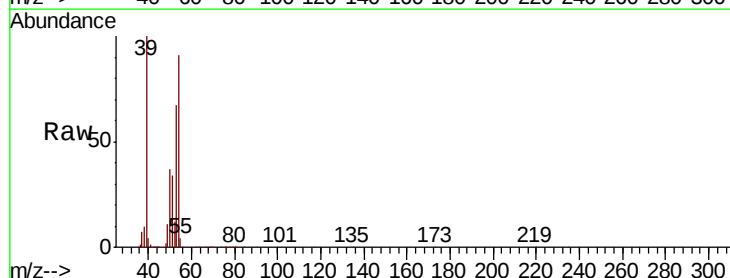
Acq: 30 Jul 2019 9:20

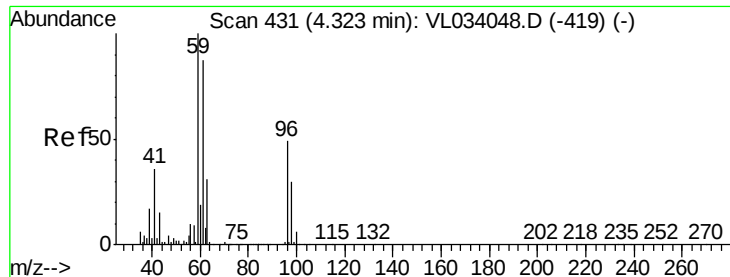
Tgt Ion: 39 Resp: 587284

Ion Ratio Lower Upper

39 100

54 88.1 68.9 103.3



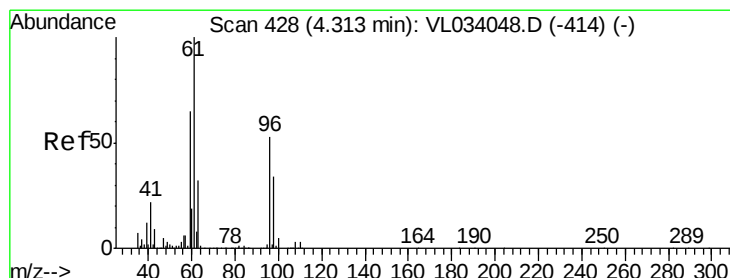
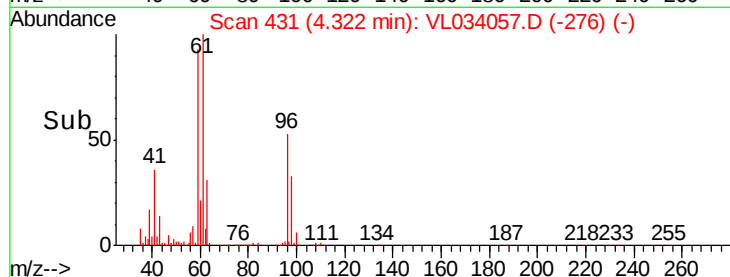
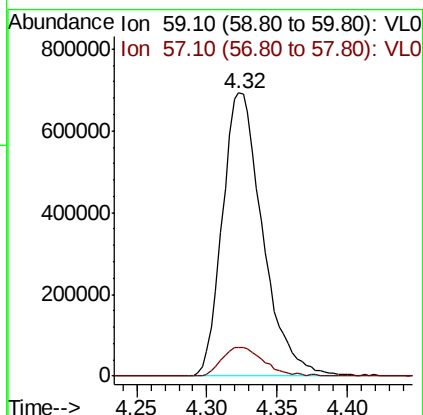
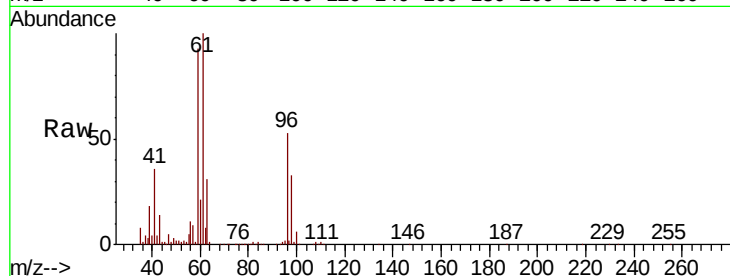


#17

tert-Butyl alcohol
Concen: 9.940 ppbv
RT: 4.32 min Scan# 431
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampled :

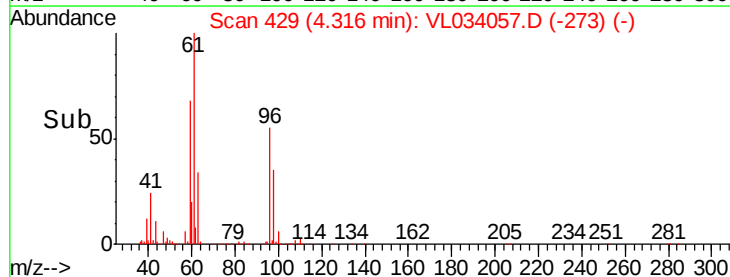
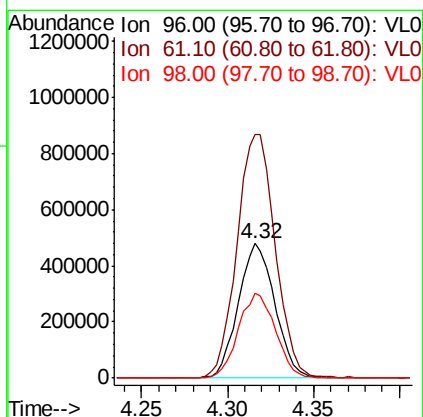
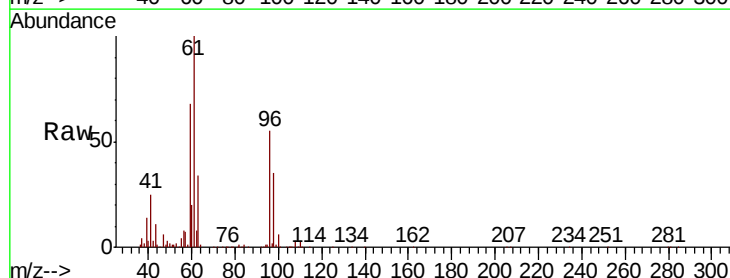
Tot Ion: 59 Resp: 1377111
Ion Ratio Lower Upper
59 100
57 10.7 8.2 12.4

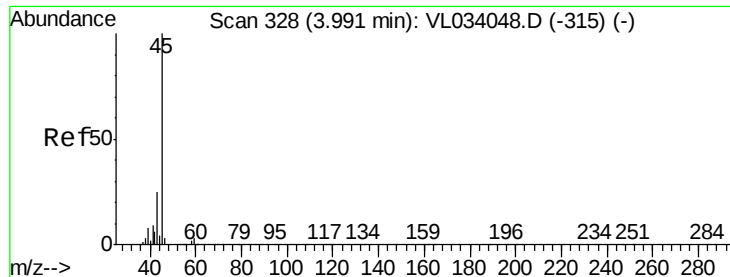


#18

1,1-Dichloroethene
Concen: 9.805 ppbv
RT: 4.32 min Scan# 429
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 96 Resp: 707363
Ion Ratio Lower Upper
96 100
61 180.9 151.5 227.3
98 62.7 52.2 78.2





#19

Isopropyl Alcohol

Concen: 8.450 ppbv

RT: 3.99 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

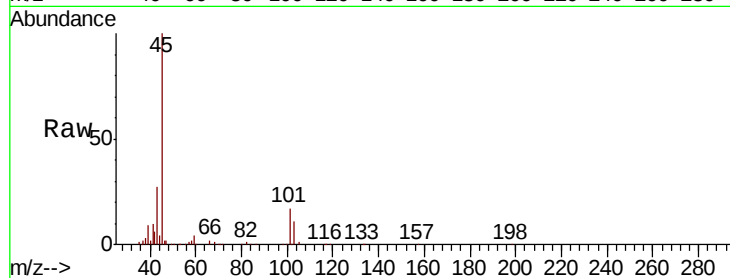
ClientSampleId :

Tot Ion: 45 Resp: 972356

Ion Ratio Lower Upper

45 100

58 2.1 1.8 2.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

600000

500000

400000

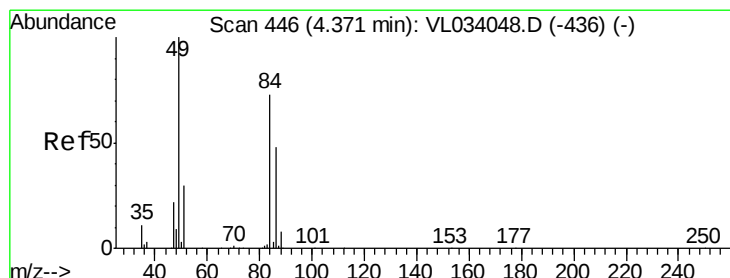
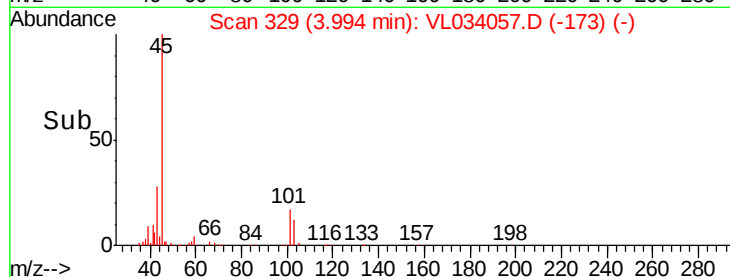
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.263 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tgt Ion: 84 Resp: 596963

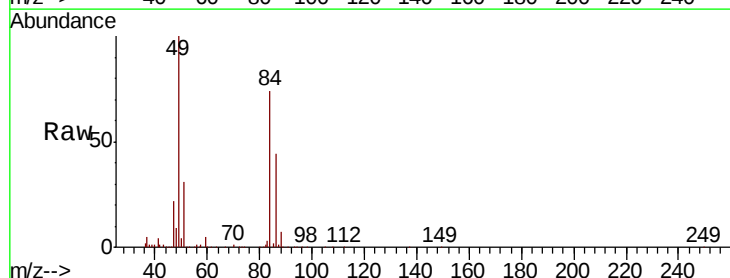
Ion Ratio Lower Upper

84 100

49 135.0 109.6 164.4

51 41.9 33.4 50.2

86 60.2 52.6 78.8



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

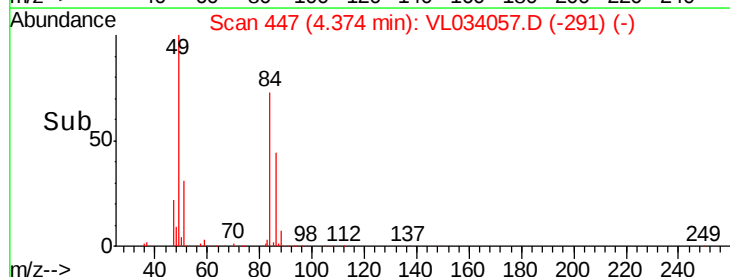
600000

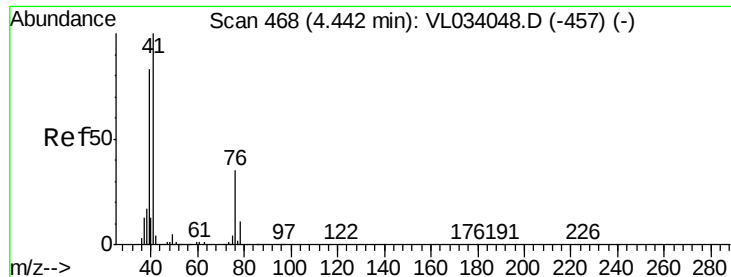
400000

200000

0

Time-->

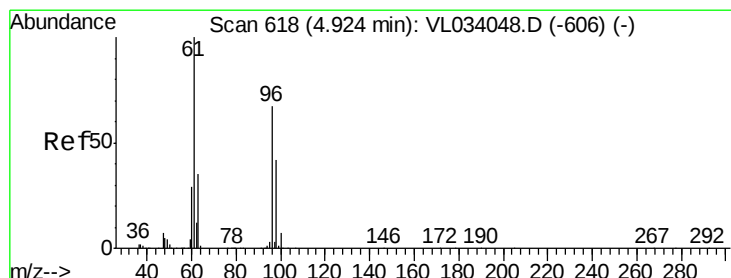
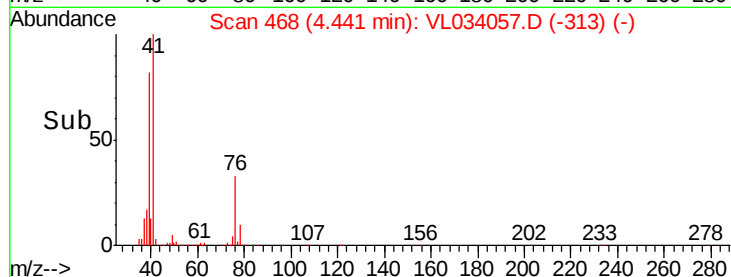
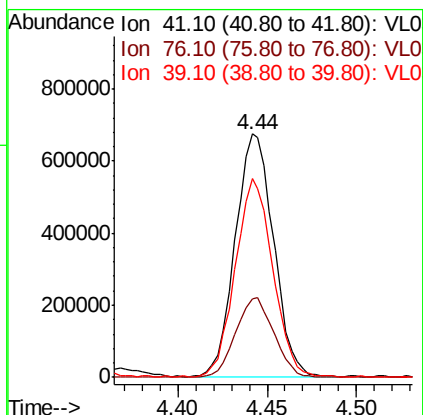
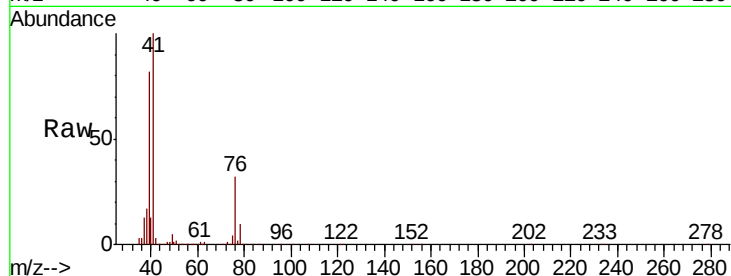




#21
Allvl Chloride
Concen: 9.466 ppbv
RT: 4.44 min Scan# 468
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

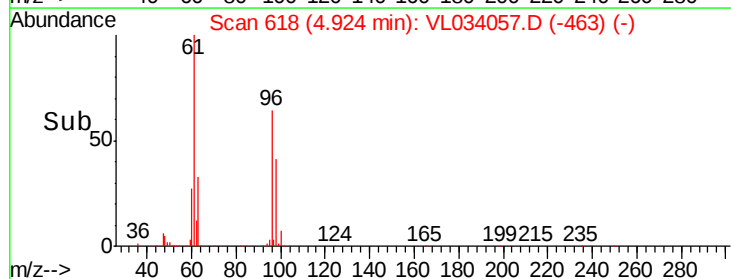
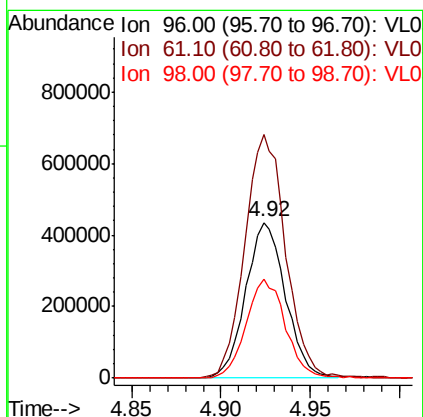
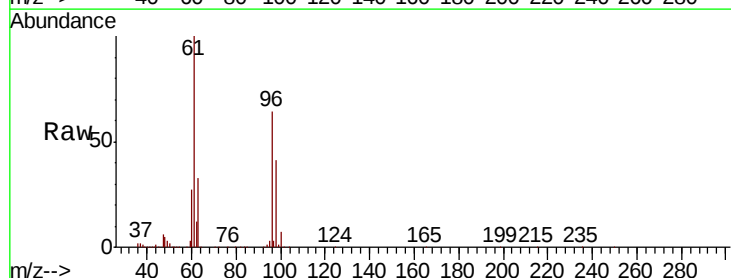
Instrument :
MSVOA_L
ClientSampleId :

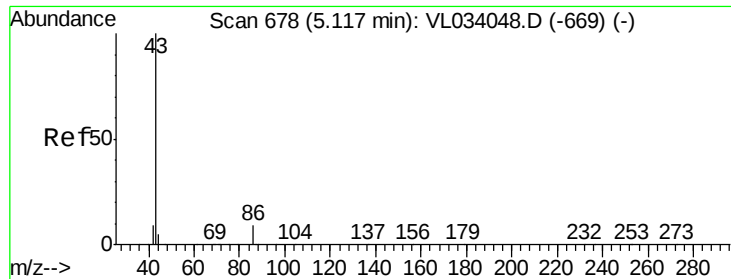
Tot Ion: 41 Resp: 1006608
Ion Ratio Lower Upper
41 100
76 33.0 26.1 39.1
39 80.2 65.0 97.6



#22
trans-1,2-Dichloroethene
Concen: 9.015 ppbv
RT: 4.92 min Scan# 618
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 96 Resp: 673867
Ion Ratio Lower Upper
96 100
61 156.5 118.6 177.8
98 63.7 49.7 74.5



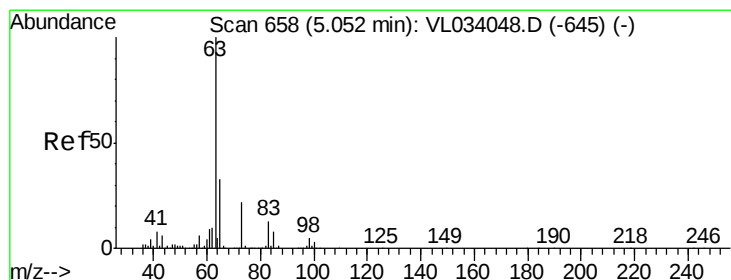
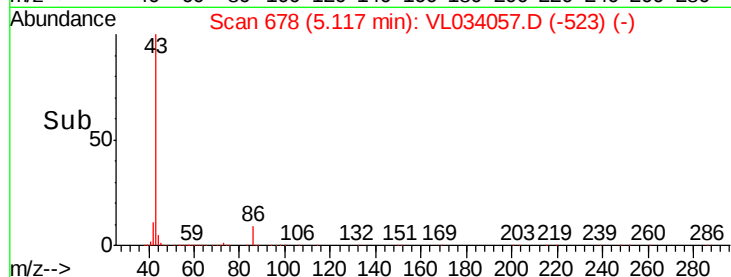
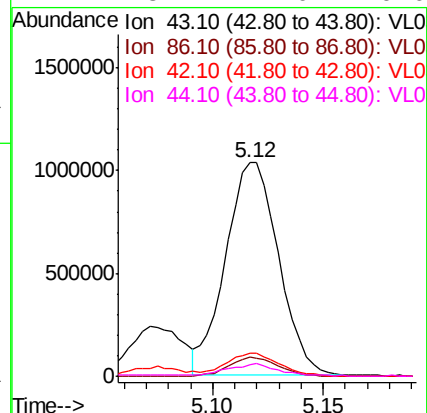
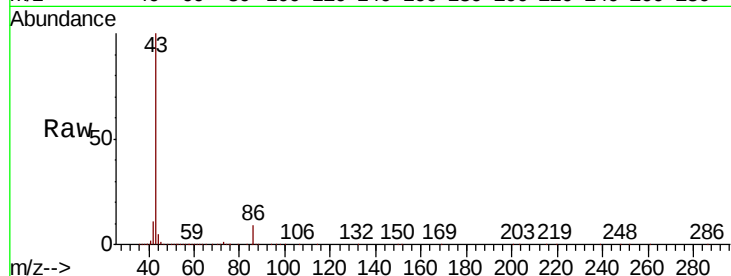


#23
 Vinyl Acetate
 Concen: 9.560 ppbv
 RT: 5.12 min Scan# 678
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 43 Resp: 1724981

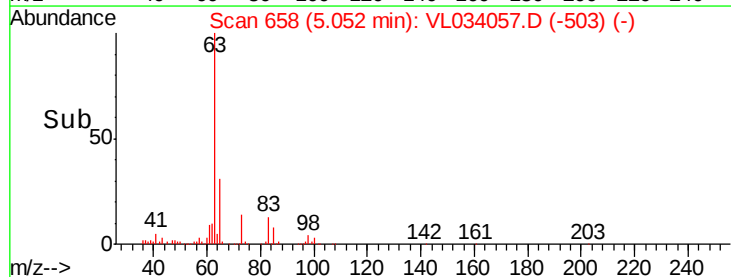
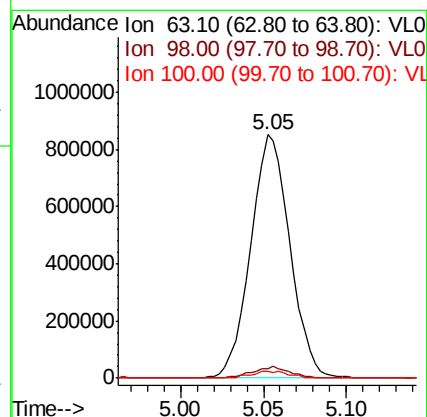
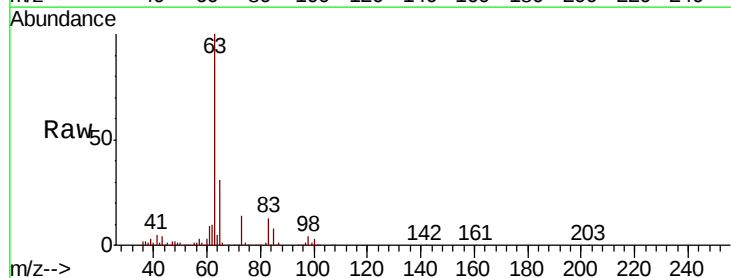
Ion	Ratio	Lower	Upper
43	100		
86	9.0	6.5	9.7
42	10.8	8.3	12.5
44	5.1	4.0	6.0

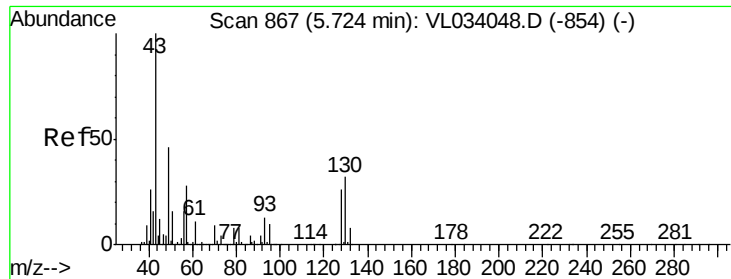


#24
 1,1-Dichloroethane
 Concen: 8.719 ppbv
 RT: 5.05 min Scan# 658
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 63 Resp: 1397644

Ion	Ratio	Lower	Upper
63	100		
98	3.7	2.4	7.2
100	2.7	1.3	3.9



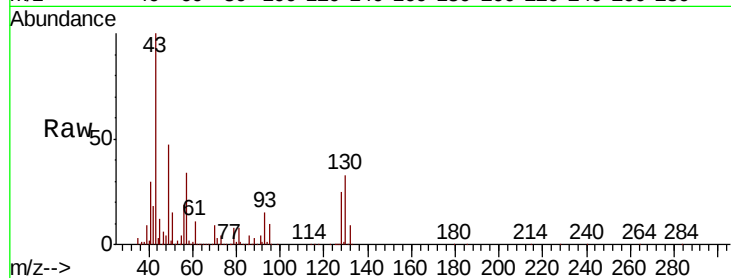


#25
Ethyl Acetate
Concen: 9.533 ppbv
RT: 5.73 min Scan# 868
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2387997

Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.1	12.1
61	10.3	8.1	12.1
70	8.1	6.3	9.5



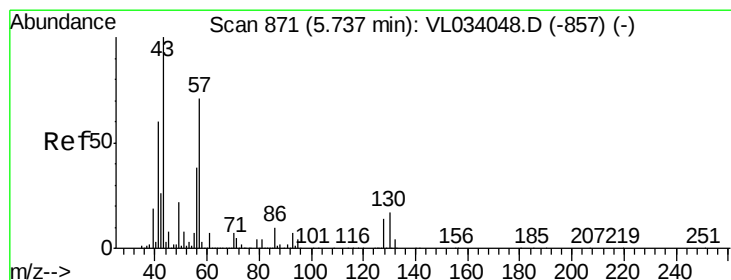
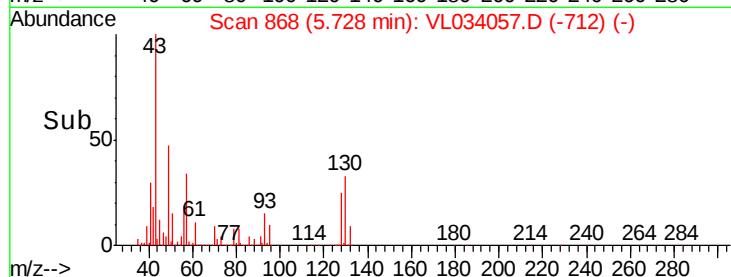
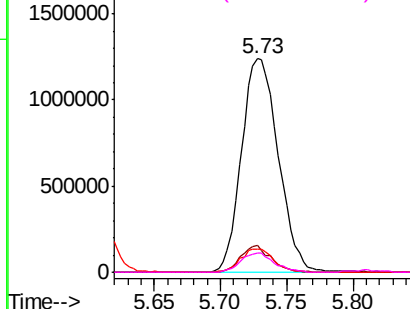
Abundance

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

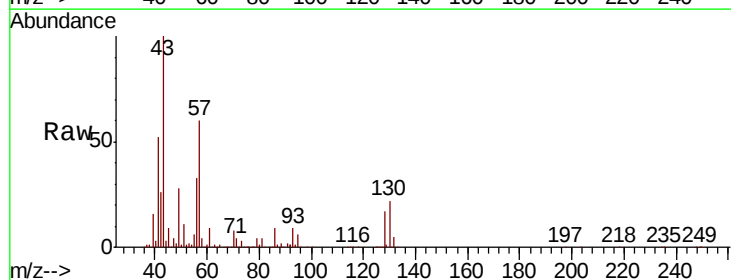
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 9.444 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 57 Resp: 1069984

Ion	Ratio	Lower	Upper
57	100		
41	89.2	69.0	103.6
43	224.4	176.6	264.8
56	52.3	42.2	63.4



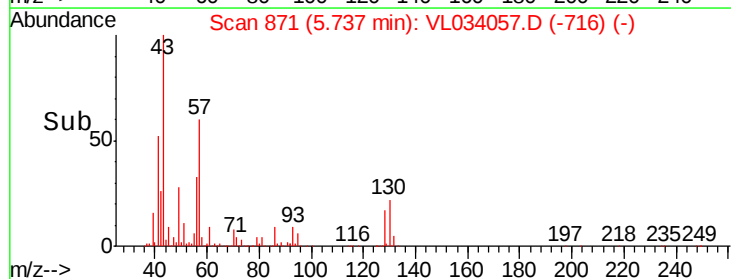
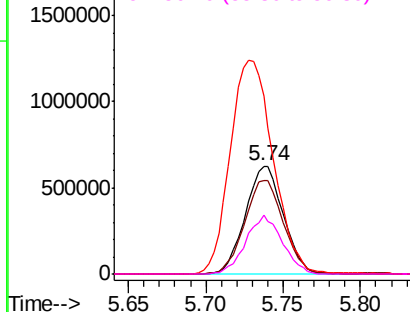
Abundance

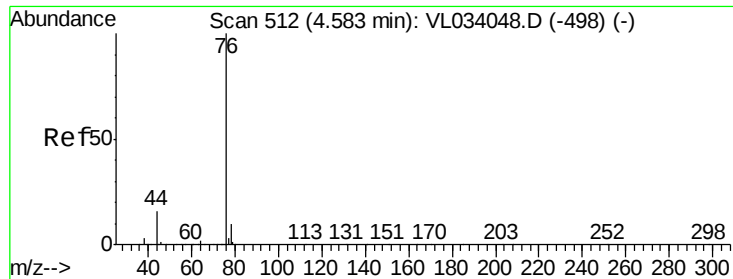
Ion 57.10 (56.80 to 57.80): VL0

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: 10.457 ppbv

RT: 4.58 min Scan# 512

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

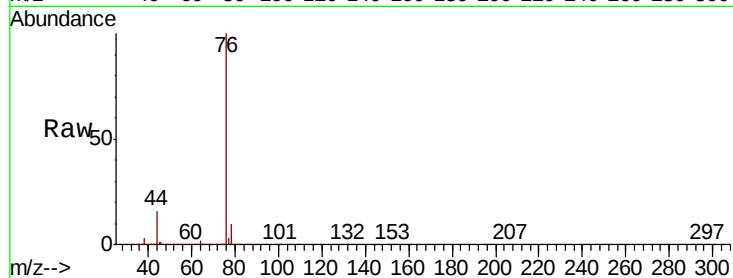
Tot Ion: 76 Resp: 1844945

Ion Ratio Lower Upper

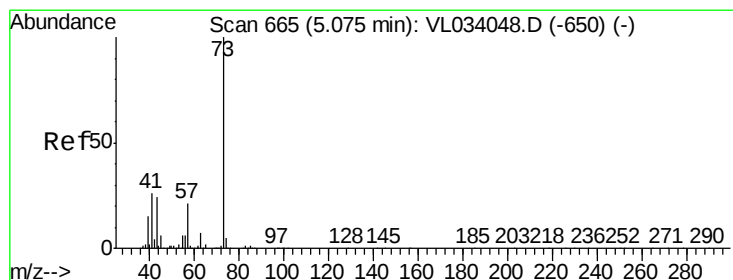
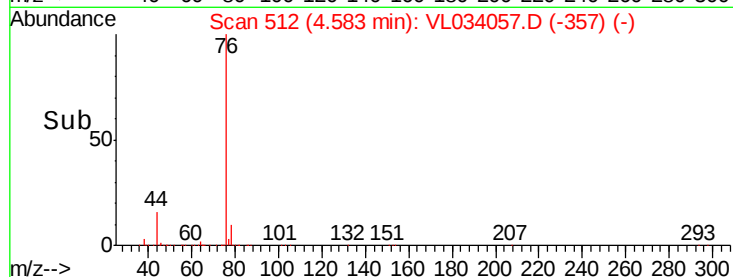
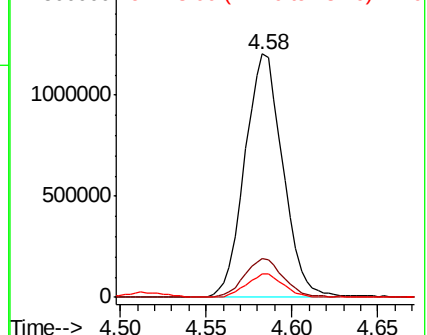
76 100

44 15.9 13.0 19.4

78 9.4 7.7 11.5



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: 9.158 ppbv

RT: 5.07 min Scan# 665

Delta R.T. -0.00 min

Lab File: VL034057.D

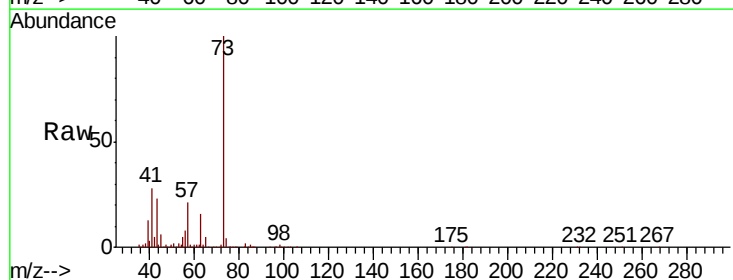
Acq: 30 Jul 2019 9:20

Tgt Ion: 73 Resp: 1766040

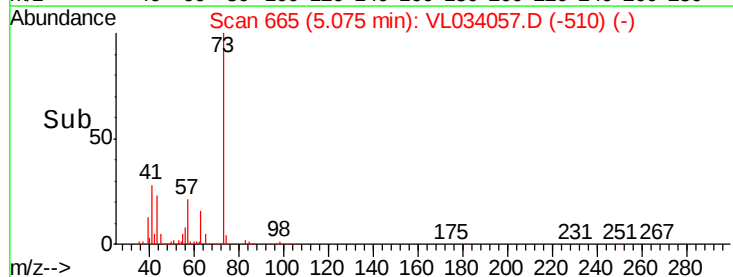
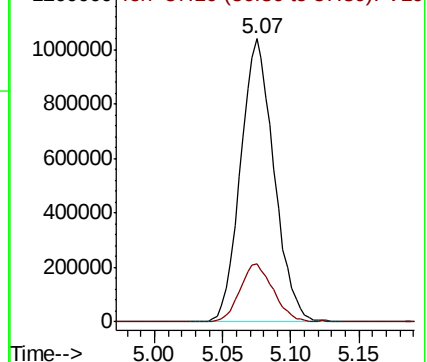
Ion Ratio Lower Upper

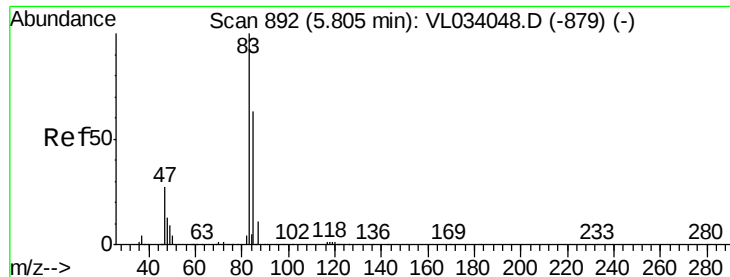
73 100

57 20.6 17.2 25.8



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





#29

Chloroform

Concen: 9.002 ppbv

RT: 5.81 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

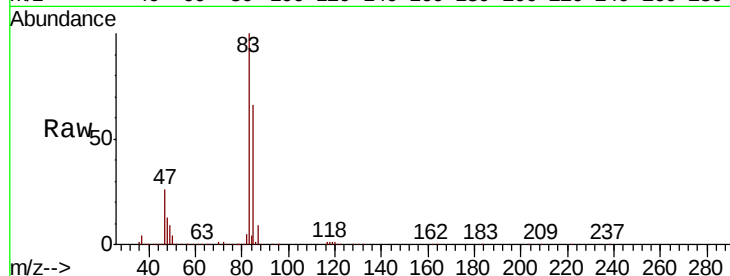
ClientSampled :

Tot Ion: 83 Resp: 1862912

Ion Ratio Lower Upper

83 100

85 66.3 50.2 75.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

1200000

1000000

800000

600000

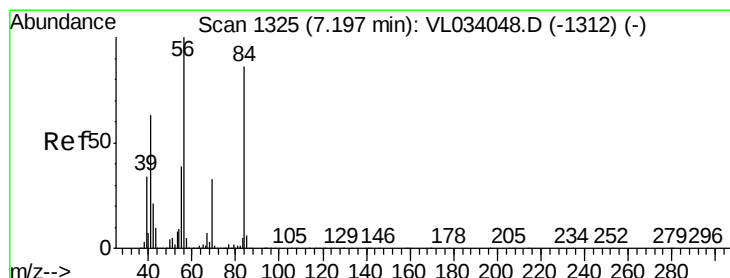
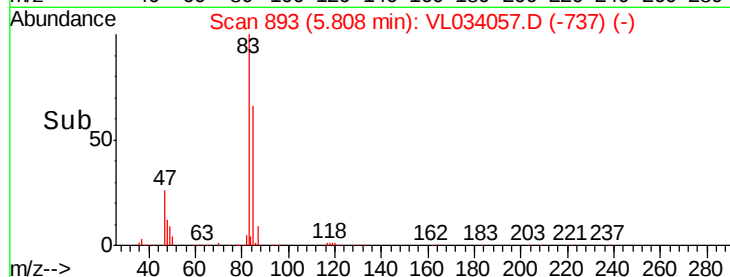
400000

200000

0

5.75 5.80 5.85 5.90

Time-->



#30

Cyclohexane

Concen: 11.881 ppbv

RT: 7.20 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

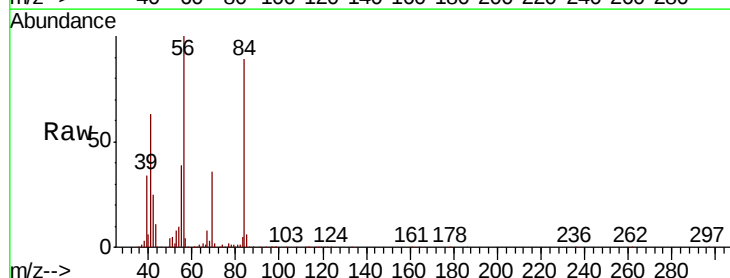
Tgt Ion: 84 Resp: 1367728

Ion Ratio Lower Upper

84 100

56 128.4 101.7 152.5

41 78.1 59.4 89.0



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

1000000

800000

600000

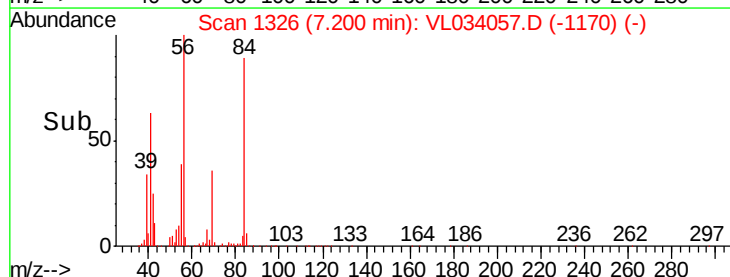
400000

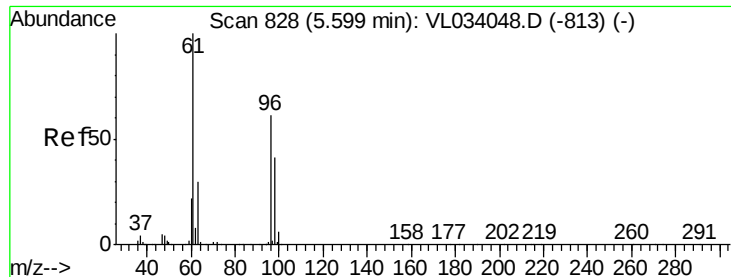
200000

0

7.15 7.20 7.25

Time-->



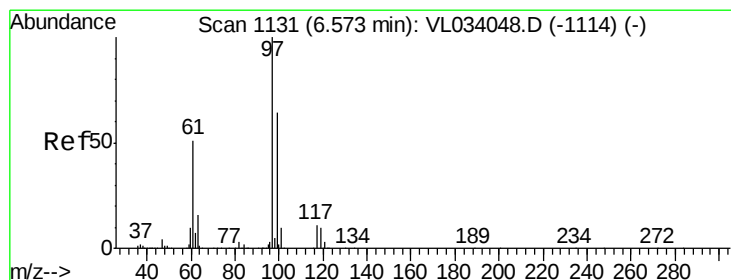
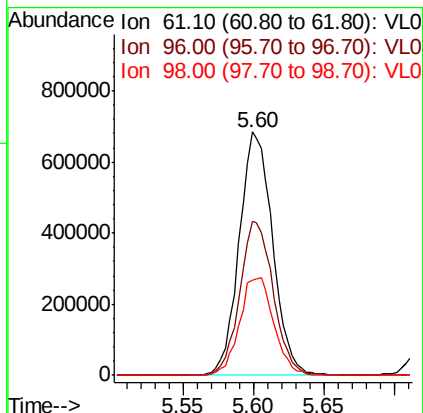
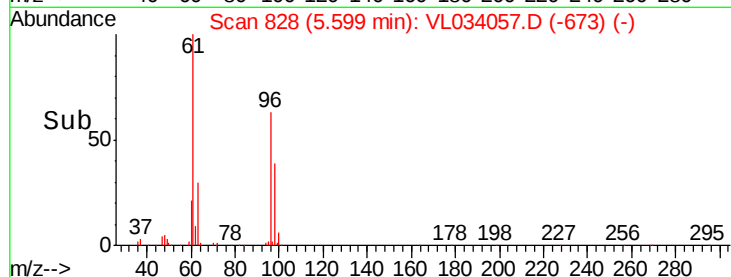
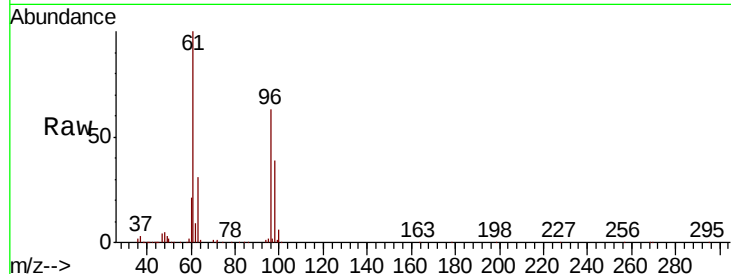


#31

cis-1,2-Dichloroethene
 Concen: 10.316 ppbv
 RT: 5.60 min Scan# 828
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Instrument :
 MSVOA_L
 ClientSampleId :

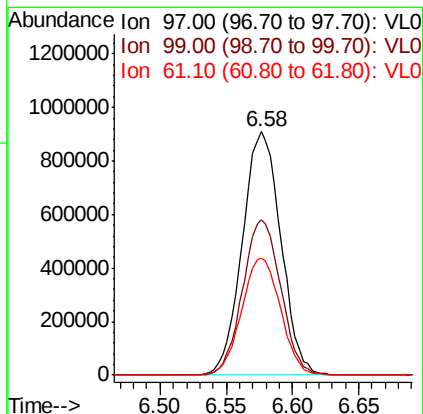
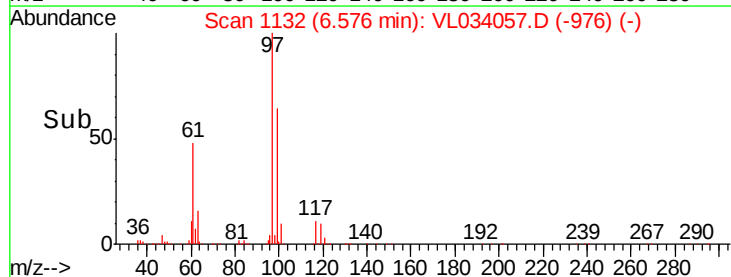
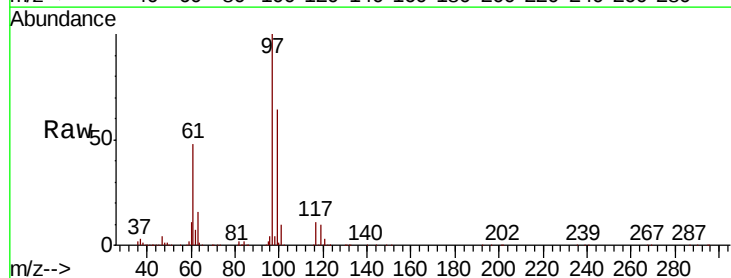
Tot Ion: 61 Resp: 1139124
 Ion Ratio Lower Upper
 61 100
 96 63.2 49.1 73.7
 98 39.0 32.5 48.7

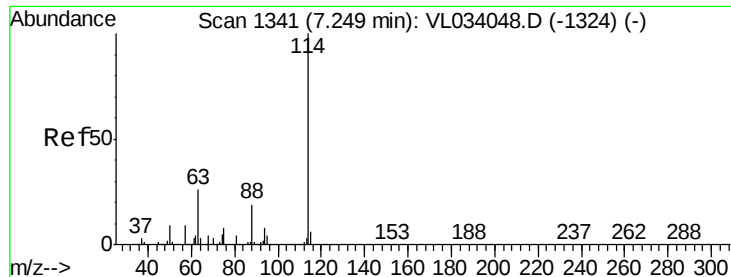


#32

1,1,1-Trichloroethane
 Concen: 8.458 ppbv
 RT: 6.58 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 97 Resp: 1836985
 Ion Ratio Lower Upper
 97 100
 99 63.4 51.0 76.6
 61 48.7 39.5 59.3

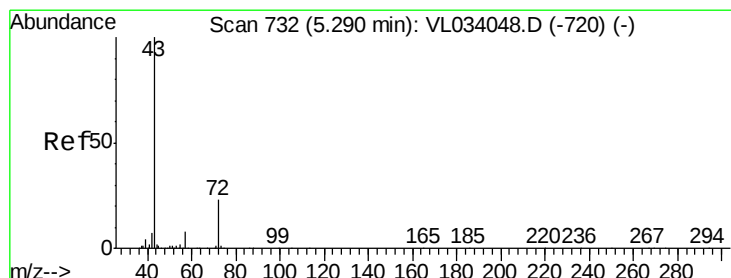
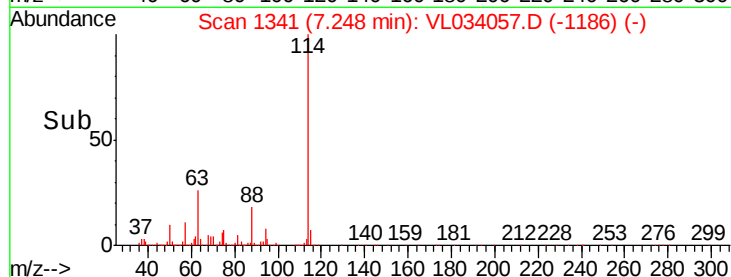
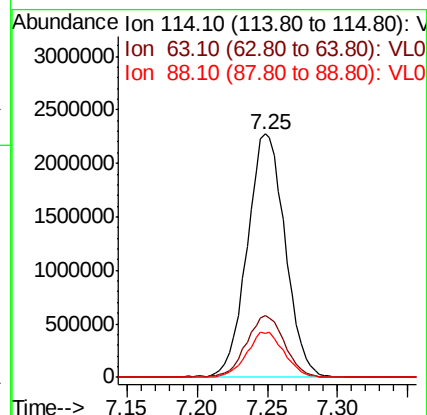
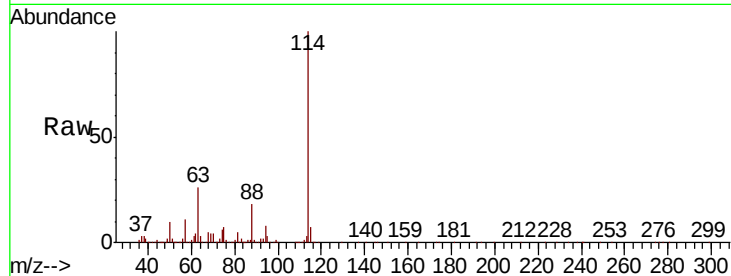




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

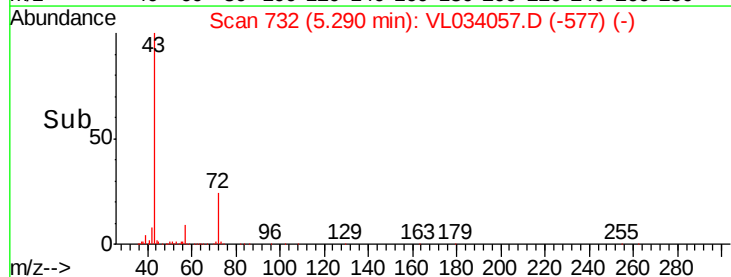
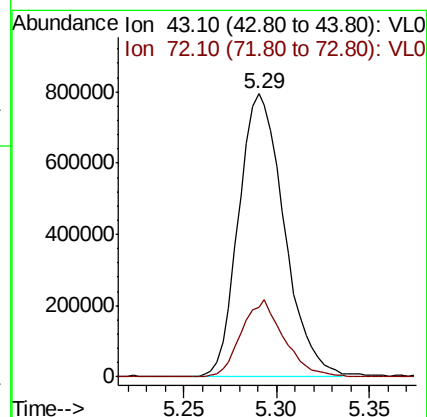
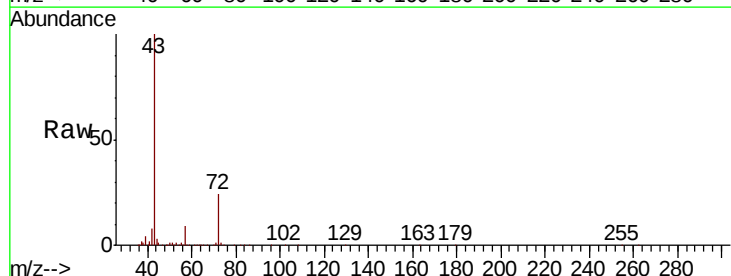
Instrument :
 MSVOA_L
 ClientSampleId :

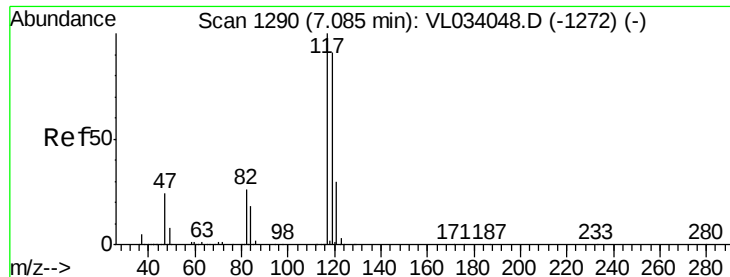
Tot Ion:114 Resp: 4281645
 Ion Ratio Lower Upper
 114 100
 63 26.0 21.0 31.6
 88 18.2 14.7 22.1



#34
 2-Butanone
 Concen: 7.679 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 43 Resp: 1353132
 Ion Ratio Lower Upper
 43 100
 72 25.6 20.2 30.4





#35

Carbon Tetrachloride

Concen: 10.183 ppbv

RT: 7.09 min Scan# 1292

Delta R.T. 0.01 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

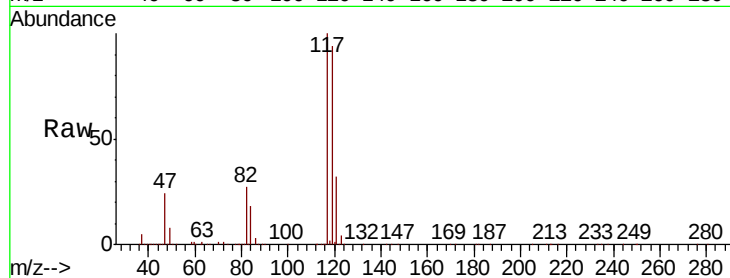
Tot Ion:117 Resp: 3076960

Ion Ratio Lower Upper

117 100

119 93.9 73.2 109.8

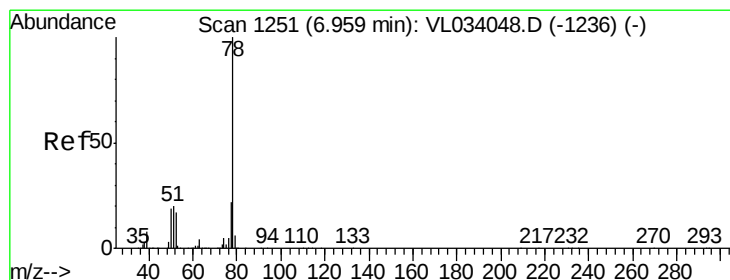
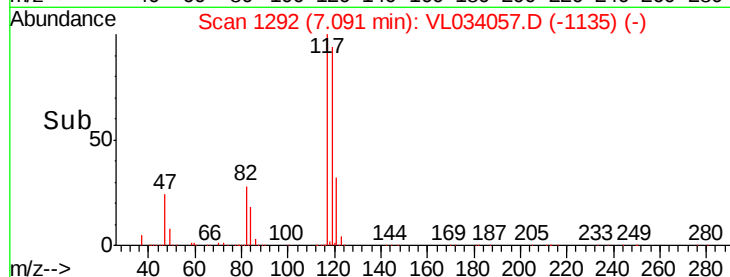
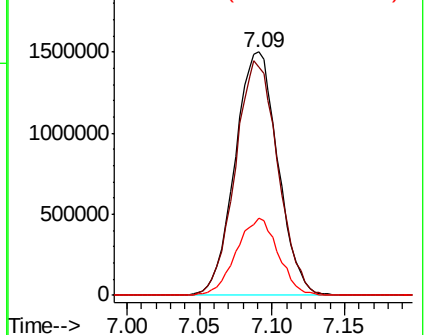
121 31.8 24.0 36.0



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: 10.943 ppbv

RT: 6.96 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

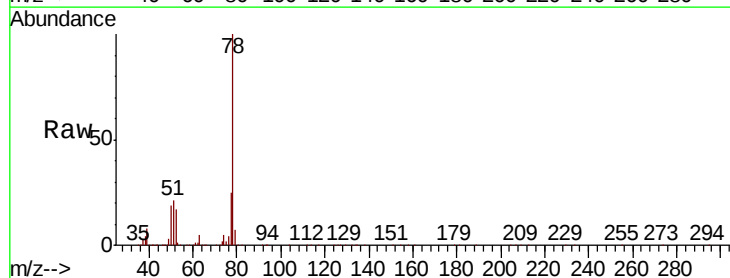
Tgt Ion: 78 Resp: 3118959

Ion Ratio Lower Upper

78 100

77 25.1 17.9 26.9

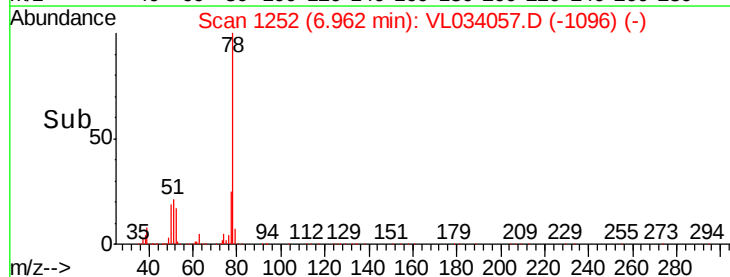
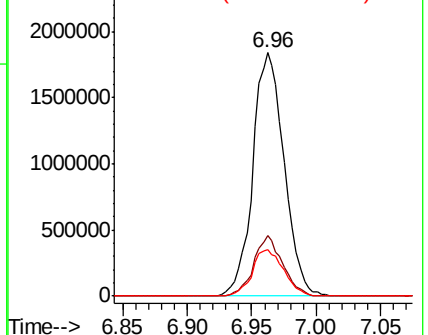
50 19.1 14.9 22.3

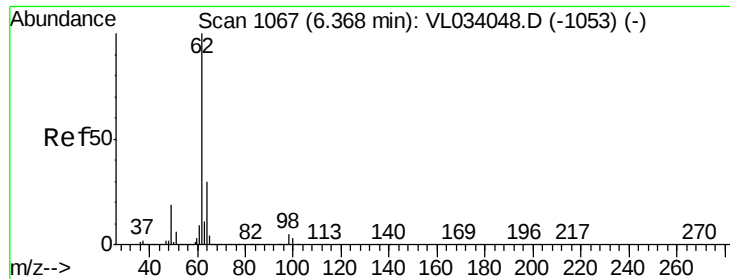


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 7.457 ppbv

RT: 6.37 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

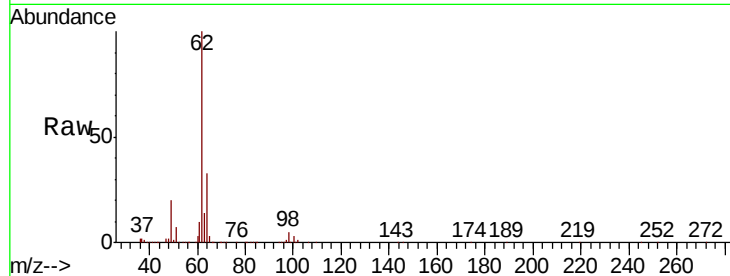
ClientSampleId :

Tot Ion: 62 Resp: 1460438

Ion Ratio Lower Upper

62 100

98 5.4 4.2 6.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.37

800000

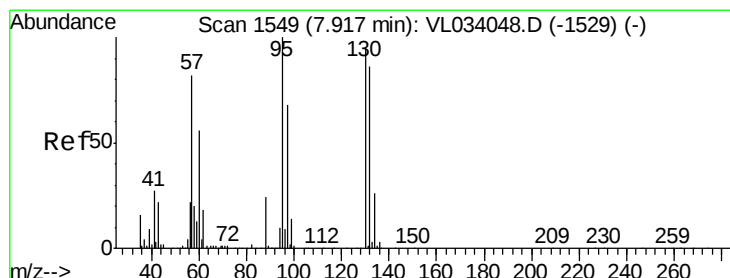
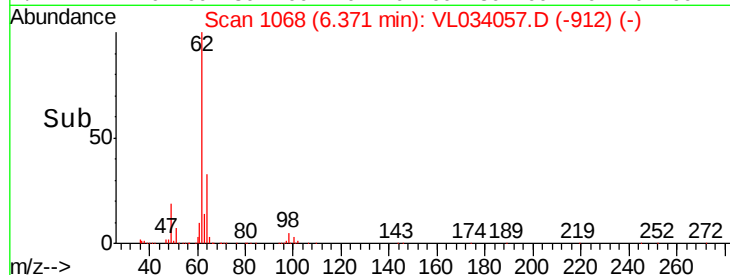
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 8.547 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tgt Ion: 130 Resp: 1020857

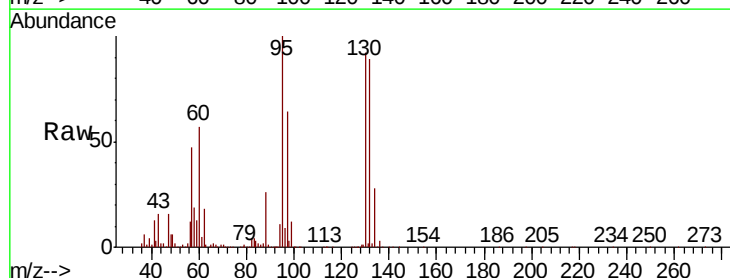
Ion Ratio Lower Upper

130 100

95 108.6 84.1 126.1

132 96.2 72.7 109.1

97 69.8 56.9 85.3



Abundance Ion 130.00 (129.70 to 130.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

800000

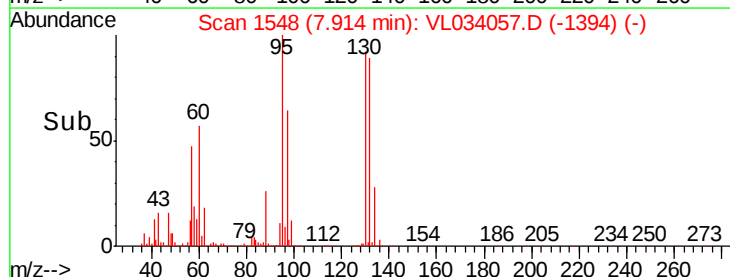
600000

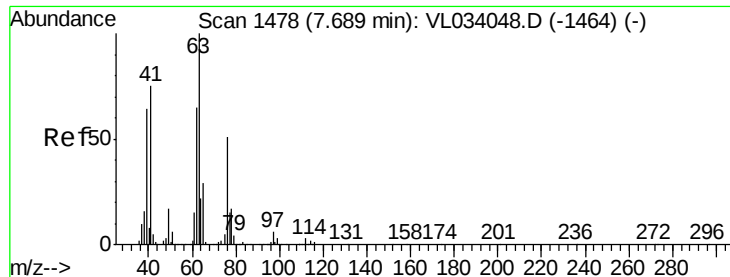
400000

200000

0

Time-->

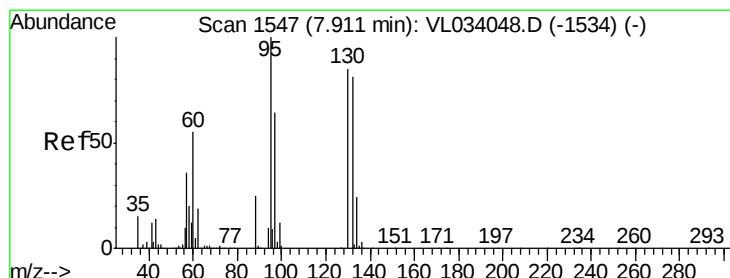
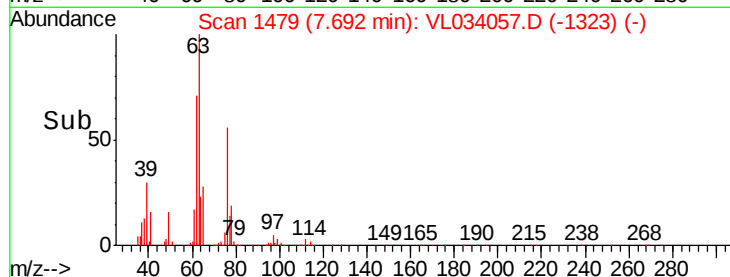
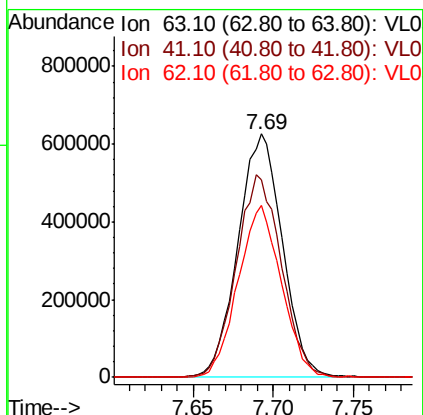
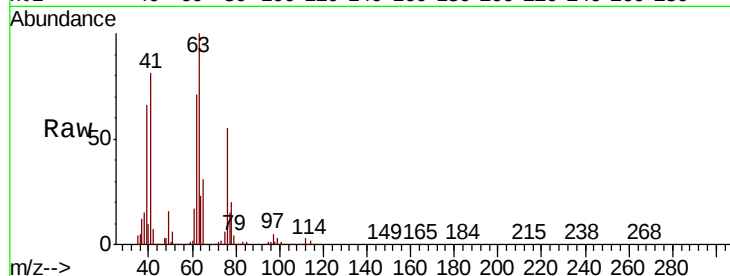




#39
 1,2-Dichloropropane
 Concen: 10.215 ppbv
 RT: 7.69 min Scan# 1479
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

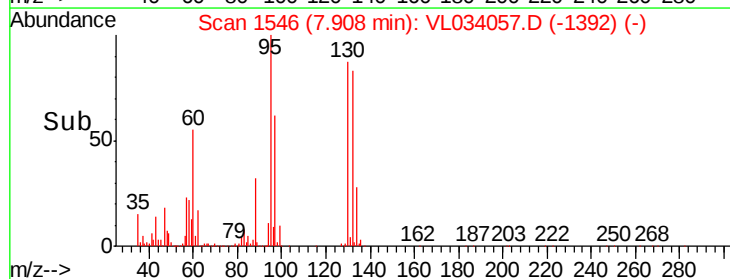
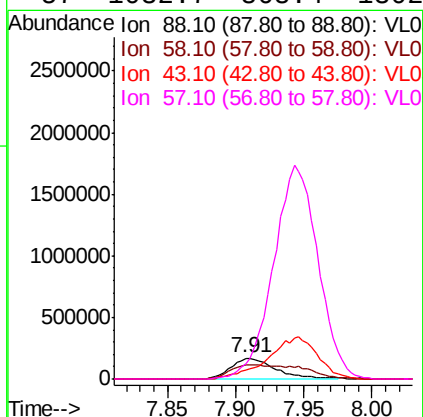
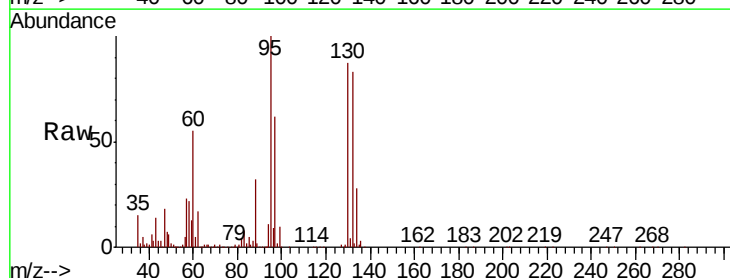
Instrument :
 MSVOA_L
 ClientSampleId :

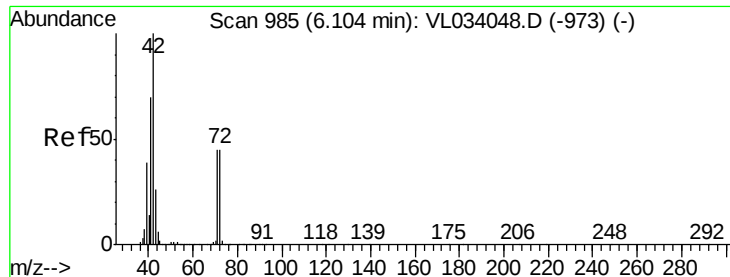
Tot Ion: 63 Resp: 1181528
 Ion Ratio Lower Upper
 63 100
 41 81.0 59.8 89.8
 62 70.6 52.2 78.2



#40
 1,4-Dioxane
 Concen: 8.388 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 88 Resp: 383124
 Ion Ratio Lower Upper
 88 100
 58 115.6 99.6 149.4
 43 226.4 189.2 283.8
 57 1032.7 868.4 1302.6





#41

Tetrahydrofuran

Concen: 8.389 ppbv

RT: 6.10 min Scan# 985

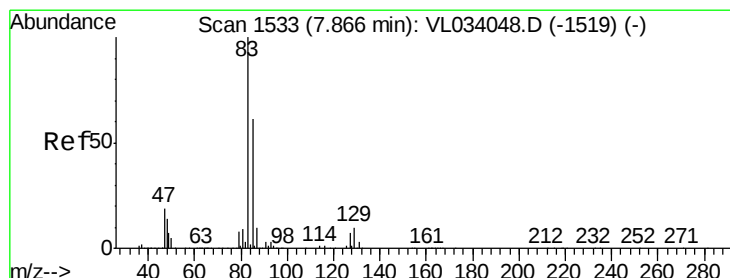
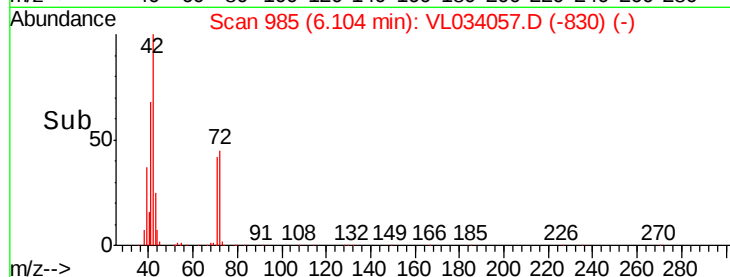
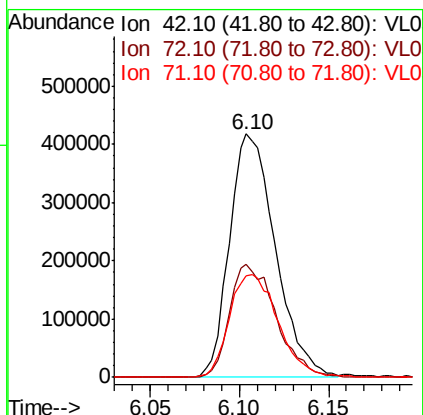
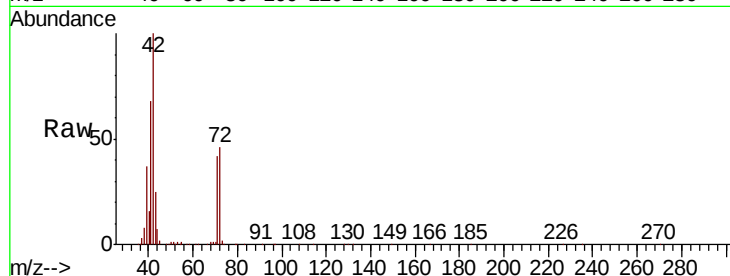
Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	42	Resp:	750911
Ion	Ratio	Lower	Upper
42	100		
72	47.0	36.9	55.3
71	44.8	36.6	54.8



#42

Bromodichloromethane

Concen: 8.204 ppbv

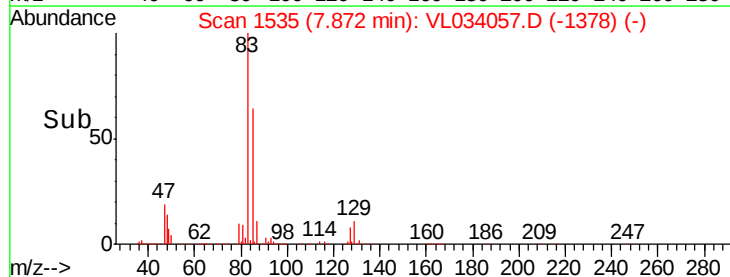
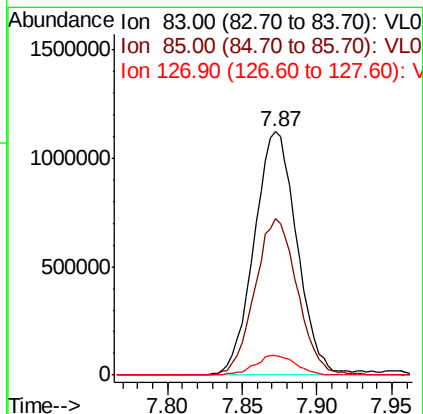
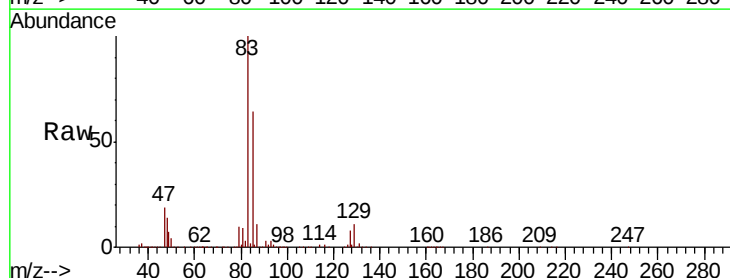
RT: 7.87 min Scan# 1535

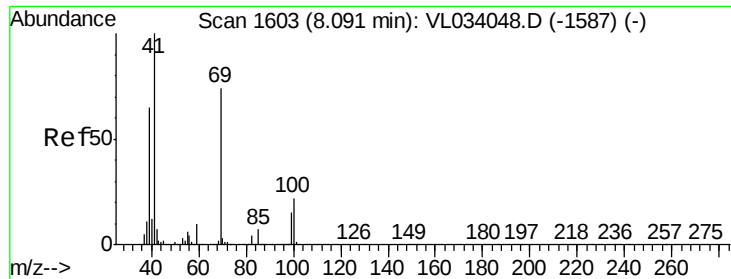
Delta R.T. 0.01 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tgt Ion:	83	Resp:	2221668
Ion	Ratio	Lower	Upper
83	100		
85	64.4	48.6	73.0
127	8.0	5.5	8.3

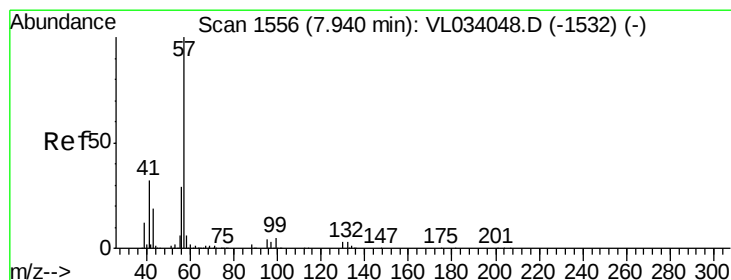
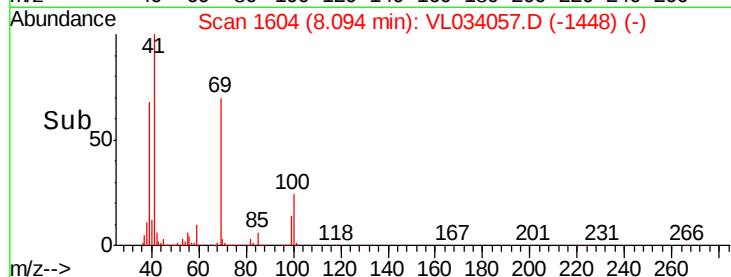
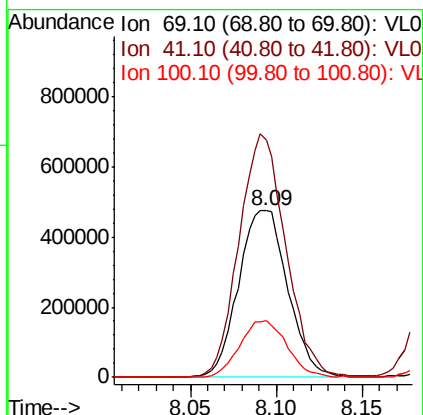
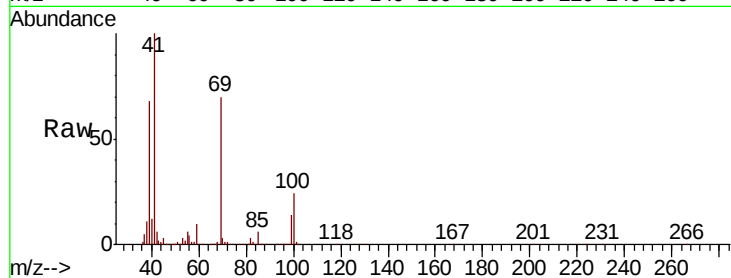




#43
Methvl Methacrylate
Concen: 9.230 ppbv
RT: 8.09 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

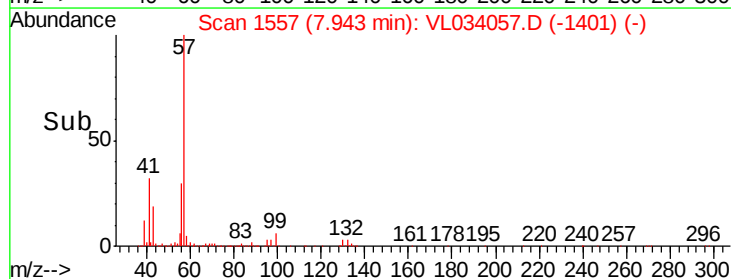
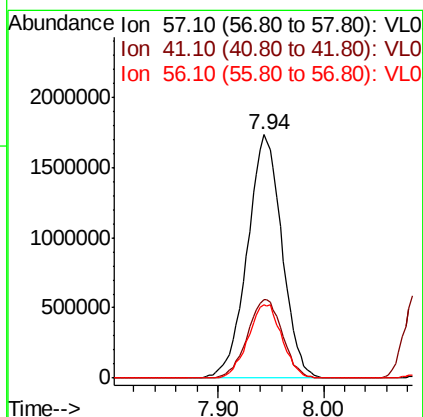
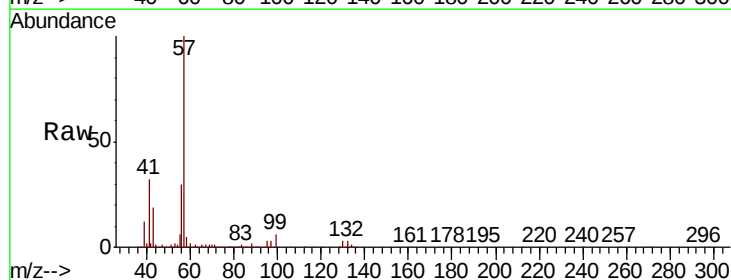
Instrument :
MSVOA_L
ClientSampleId :

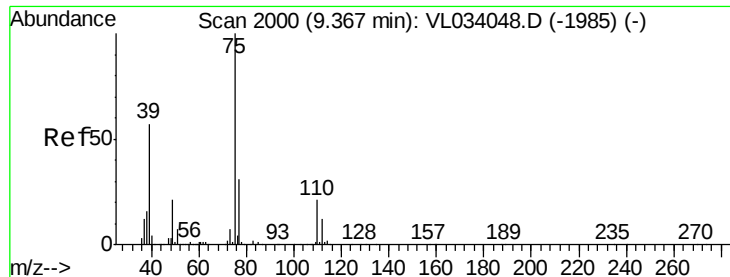
Tot Ion: 69 Resp: 937668
Ion Ratio Lower Upper
69 100
41 139.9 112.8 169.2
100 33.1 26.1 39.1



#44
2,2,4-Trimethylpentane
Concen: 8.354 ppbv
RT: 7.94 min Scan# 1557
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 57 Resp: 3953557
Ion Ratio Lower Upper
57 100
41 33.0 26.2 39.2
56 30.0 24.2 36.2

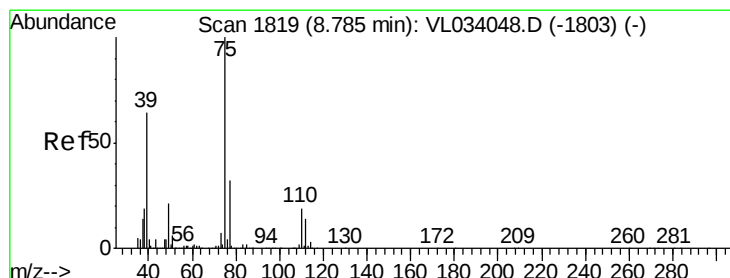
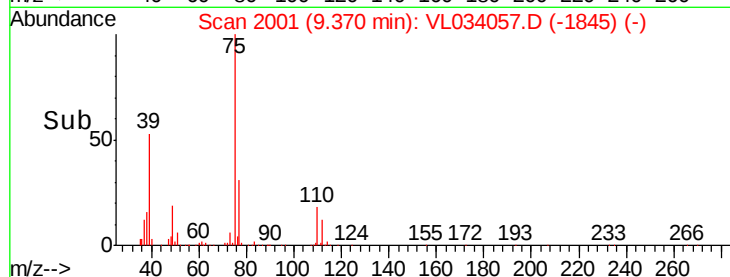
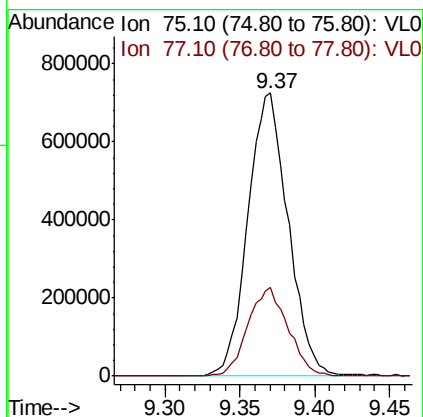
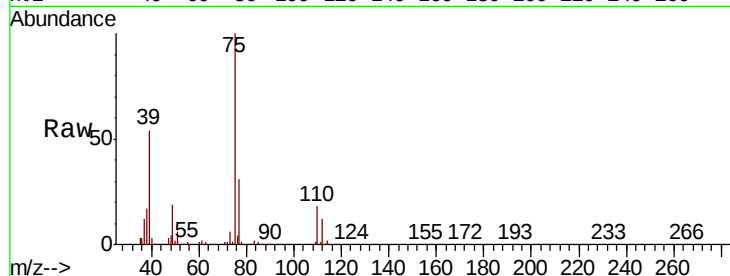




#45
t-1,3-Dichloropropene
Concen: 10.377 ppbv
RT: 9.37 min Scan# 2001
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

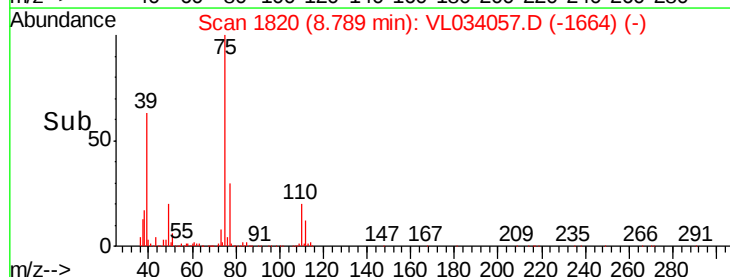
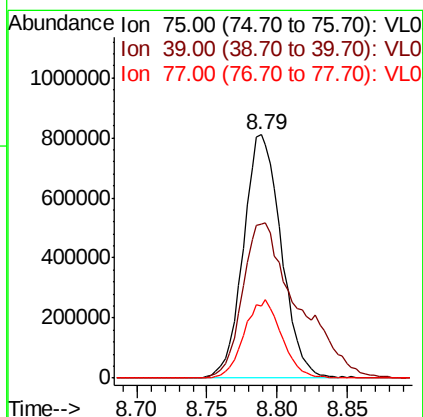
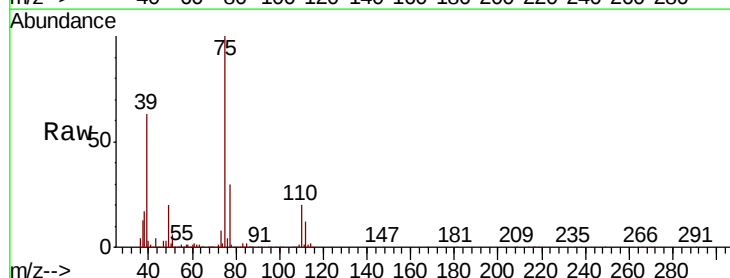
Instrument :
MSVOA_L
ClientSampleId :

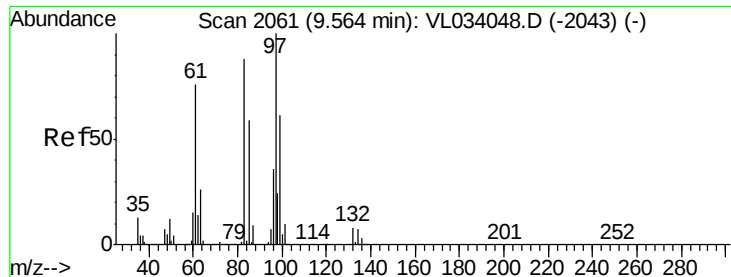
Tot Ion: 75 Resp: 1356364
Ion Ratio Lower Upper
75 100
77 31.3 24.6 37.0



#46
cis-1,3-Dichloropropene
Concen: 10.357 ppbv
RT: 8.79 min Scan# 1820
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 75 Resp: 1521640
Ion Ratio Lower Upper
75 100
39 63.5 51.4 77.2
77 29.7 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 8.719 ppbv

RT: 9.57 min Scan# 2063

Delta R.T. 0.01 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 1049062

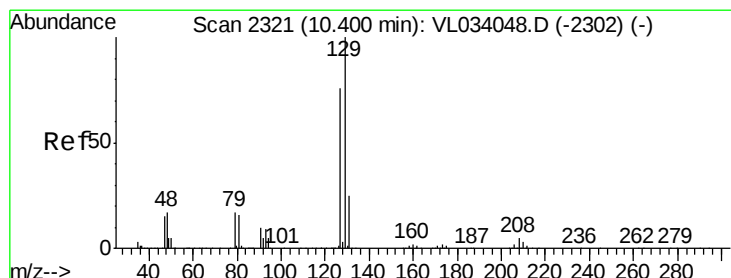
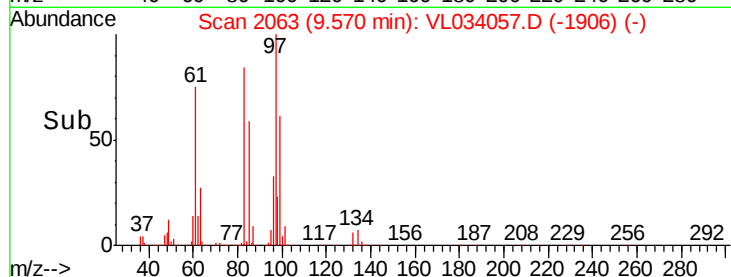
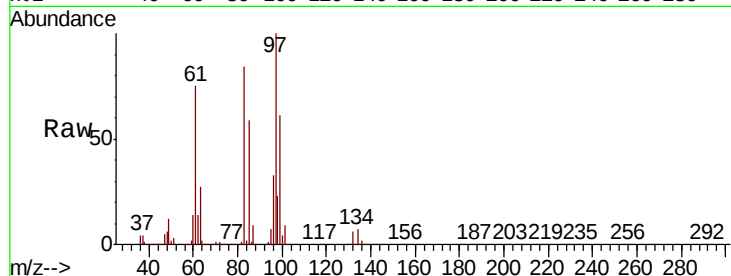
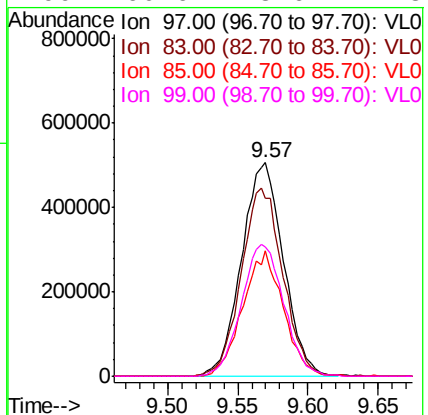
Ion	Ratio	Lower	Upper
97	100		
83	83.6	70.6	106.0
85	58.9	47.3	70.9
99	60.6	48.6	72.8

97 100

83 83.6 70.6 106.0

85 58.9 47.3 70.9

99 60.6 48.6 72.8



#48

Dibromochloromethane

Concen: 8.411 ppbv

RT: 10.41 min Scan# 2323

Delta R.T. 0.01 min

Lab File: VL034057.D

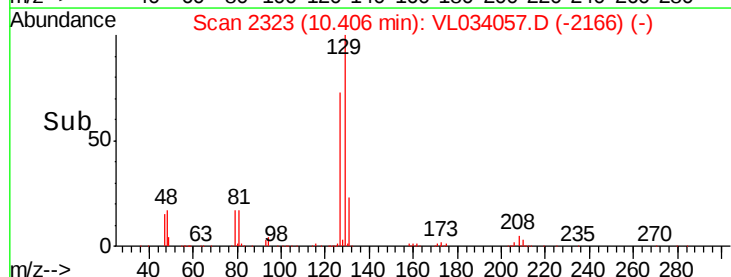
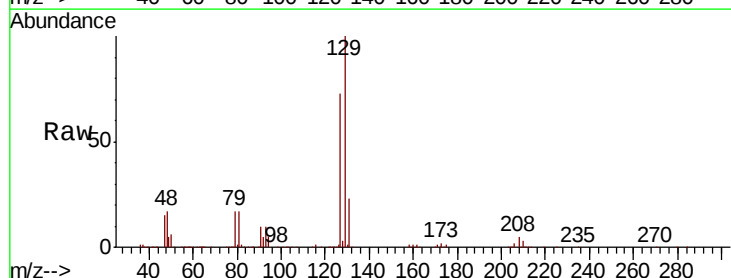
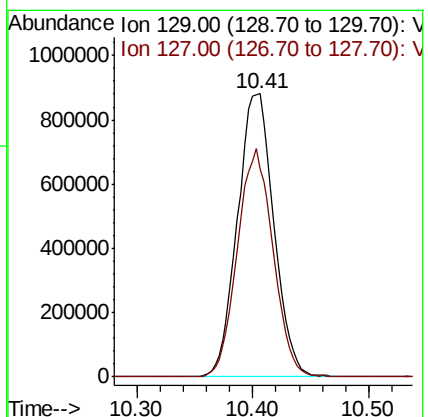
Acq: 30 Jul 2019 9:20

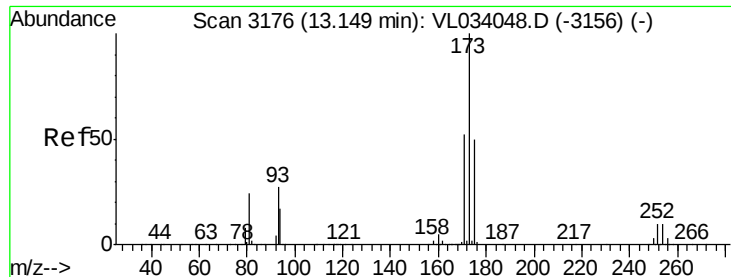
Tgt Ion: 129 Resp: 1931961

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.6	115.8

129 100

127 78.6 38.6 115.8





#49

Bromoform

Concen: 9.262 ppbv

RT: 13.15 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

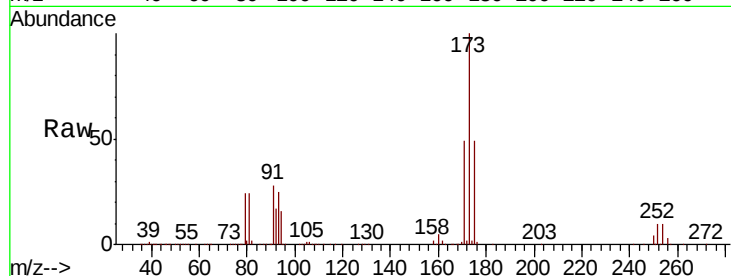
Tot Ion:173 Resp: 1854667

Ion Ratio Lower Upper

173 100

175 49.7 39.4 59.0

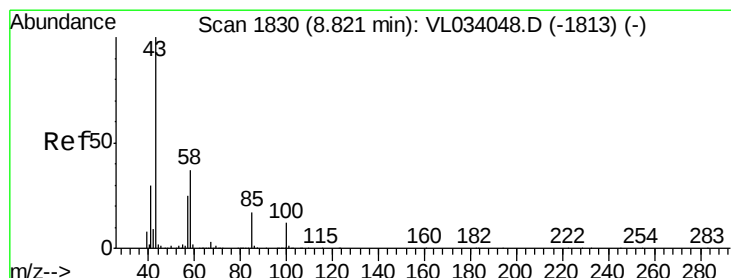
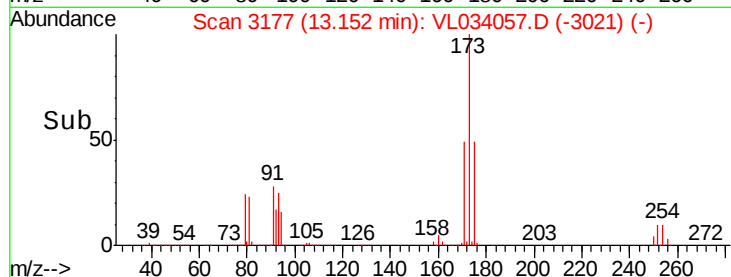
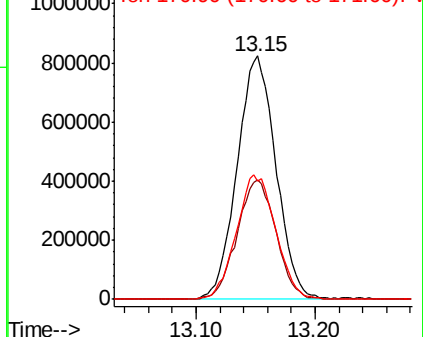
171 52.1 41.9 62.9



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.277 ppbv

RT: 8.82 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VL034057.D

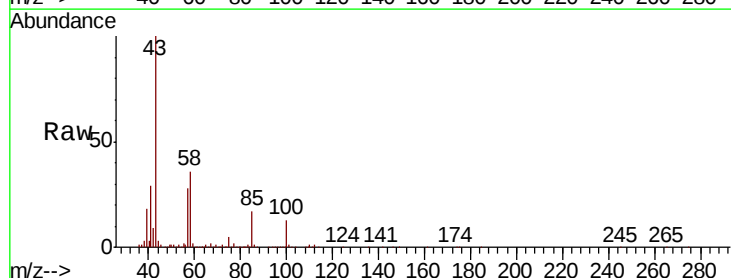
Acq: 30 Jul 2019 9:20

Tgt Ion: 43 Resp: 2426826

Ion Ratio Lower Upper

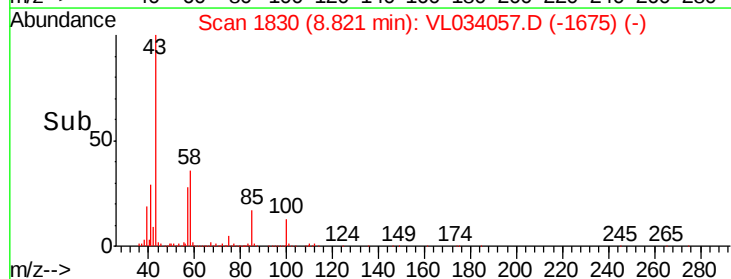
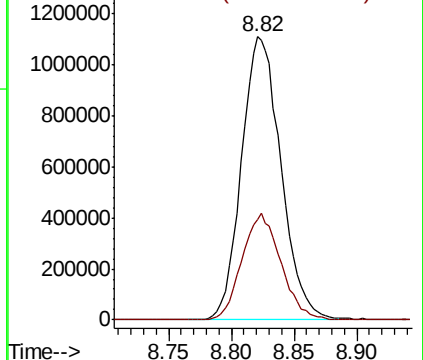
43 100

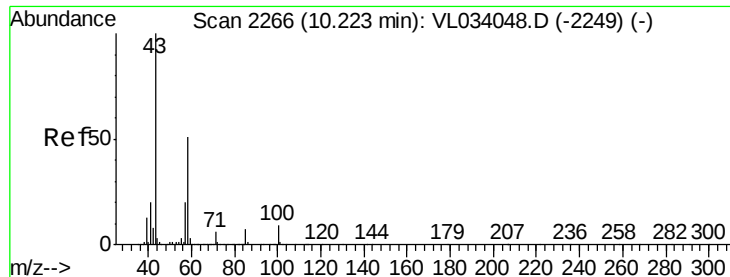
58 37.2 30.7 46.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

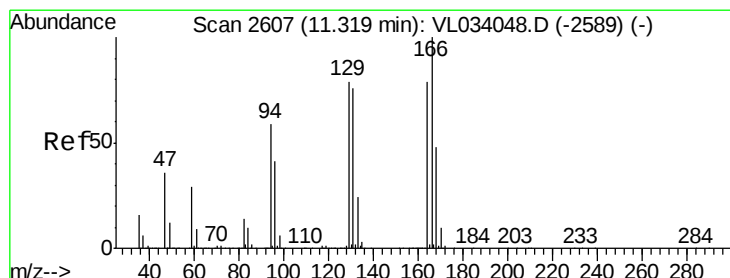
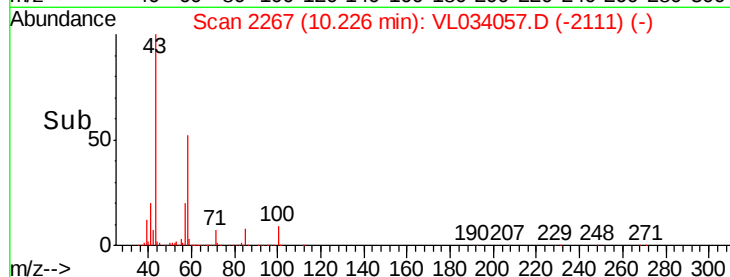
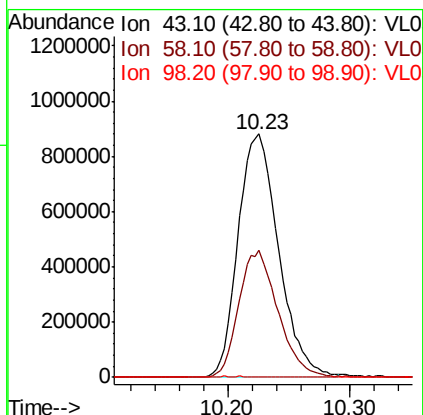
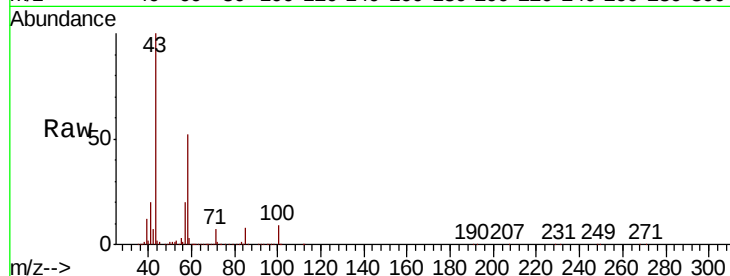




#51
2-Hexanone
Concen: 9.289 ppbv
RT: 10.23 min Scan# 2267
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

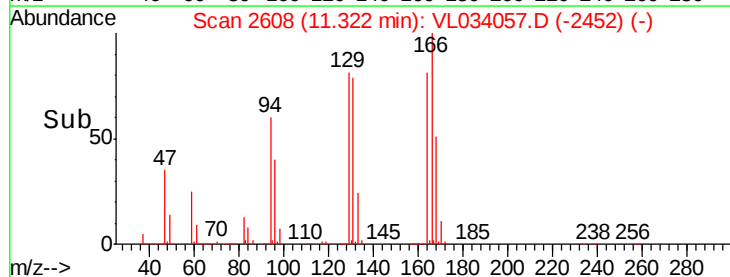
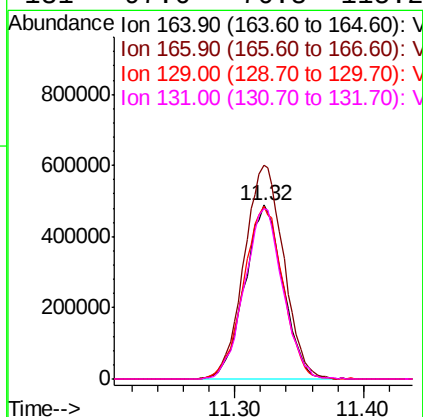
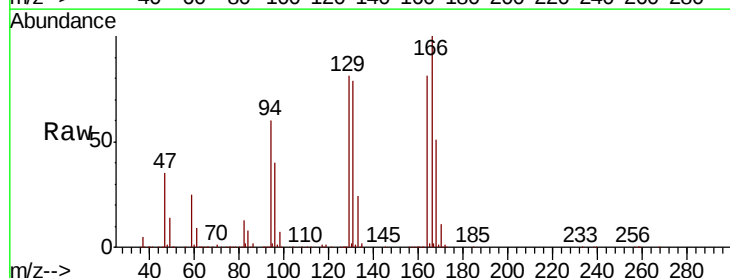
Instrument :
MSVOA_L
ClientSampled :

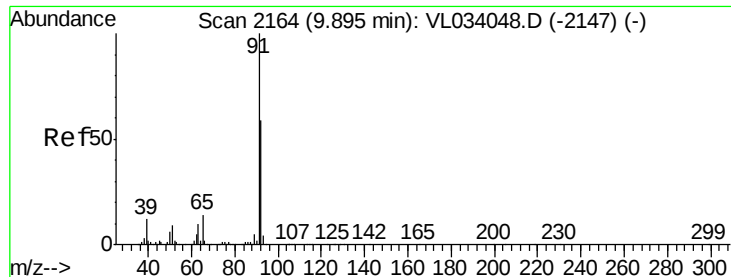
Tot Ion: 43 Resp: 2020835
Ion Ratio Lower Upper
43 100
58 50.5 40.2 60.2
98 0.5 0.4 0.6



#52
Tetrachloroethene
Concen: 9.027 ppbv
RT: 11.32 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 164 Resp: 1008854
Ion Ratio Lower Upper
164 100
166 123.0 101.6 152.4
129 99.7 80.7 121.1
131 97.6 76.8 115.2





#53

Toluene

Concen: 9.925 ppbv

RT: 9.90 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

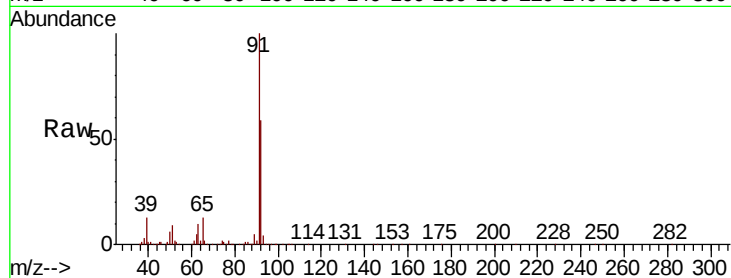
ClientSampleId :

Tot Ion: 91 Resp: 2951701

Ion Ratio Lower Upper

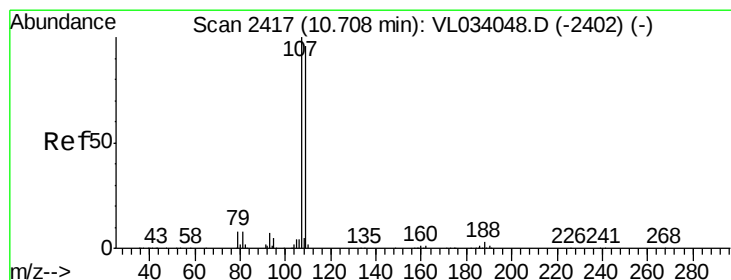
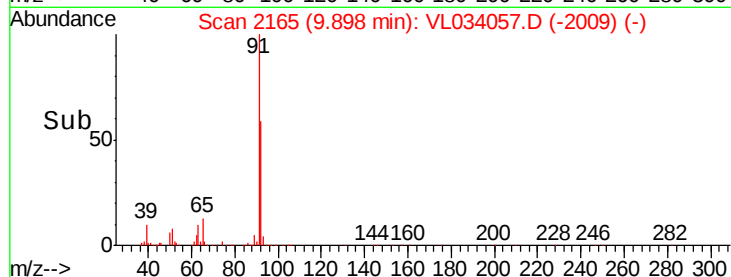
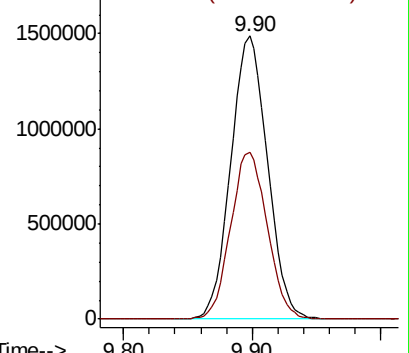
91 100

92 59.0 47.4 71.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.137 ppbv

RT: 10.71 min Scan# 2418

Delta R.T. 0.00 min

Lab File: VL034057.D

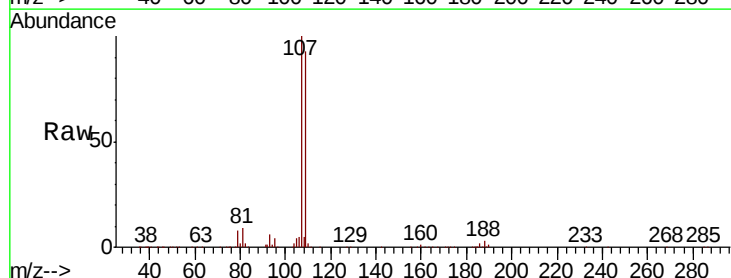
Acq: 30 Jul 2019 9:20

Tgt Ion: 107 Resp: 1631696

Ion Ratio Lower Upper

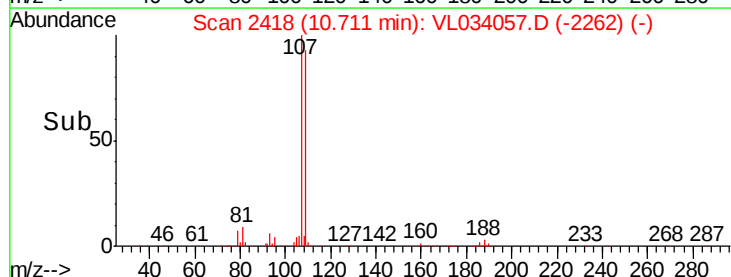
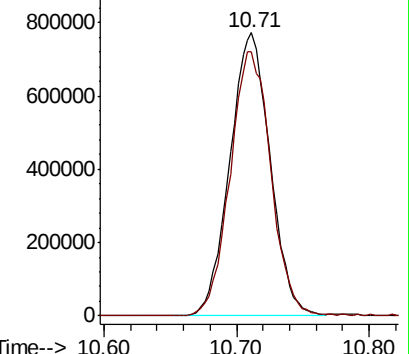
107 100

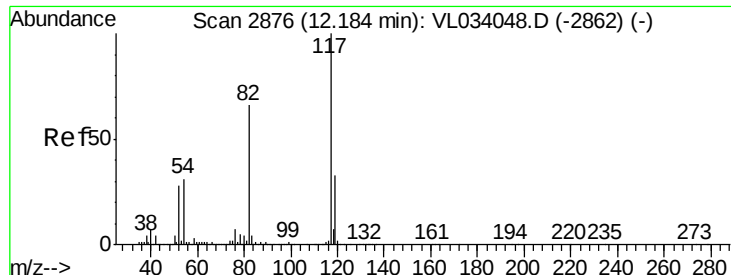
109 92.9 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

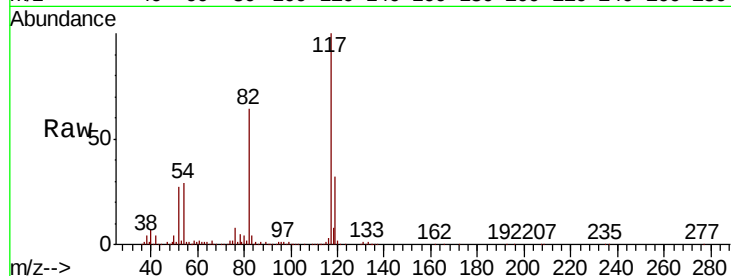




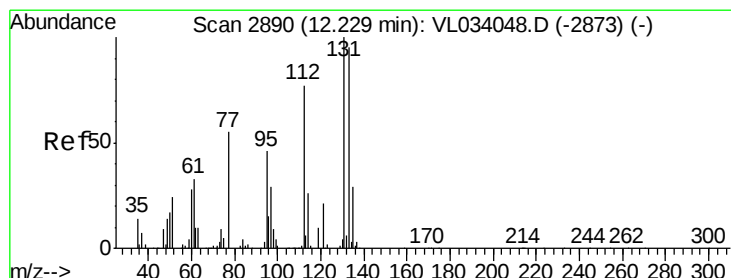
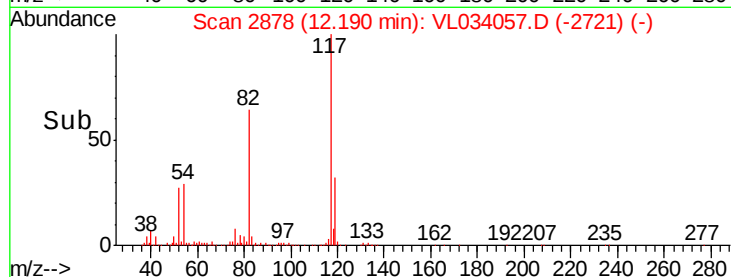
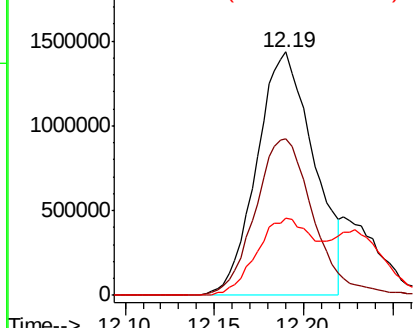
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min Scan# 2878
Delta R.T. 0.01 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3202956
Ion Ratio Lower Upper
117 100
82 65.9 49.8 74.8
119 33.0 43.0 64.6#

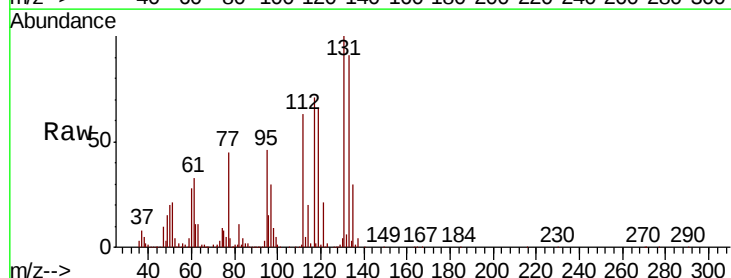


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

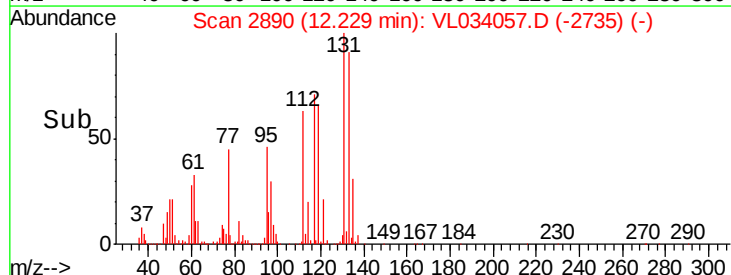
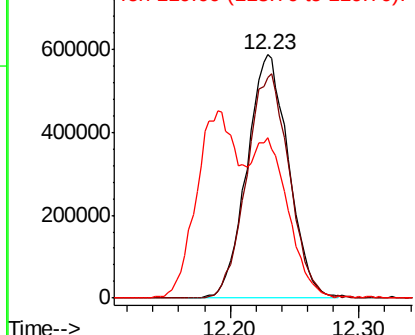


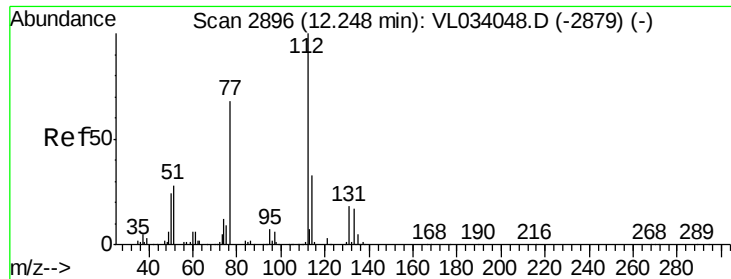
#56
1,1,1,2-Tetrachloroethane
Concen: 9.221 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion:131 Resp: 1319782
Ion Ratio Lower Upper
131 100
133 94.8 76.6 114.8
119 52.5 46.6 69.8



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

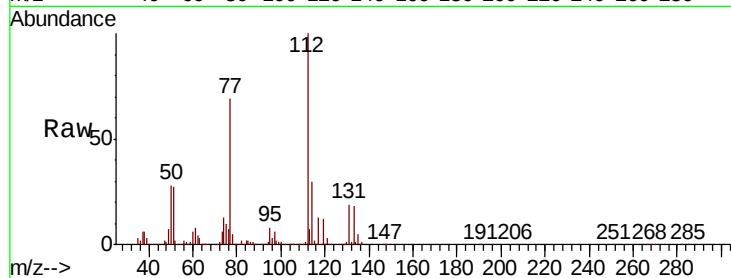




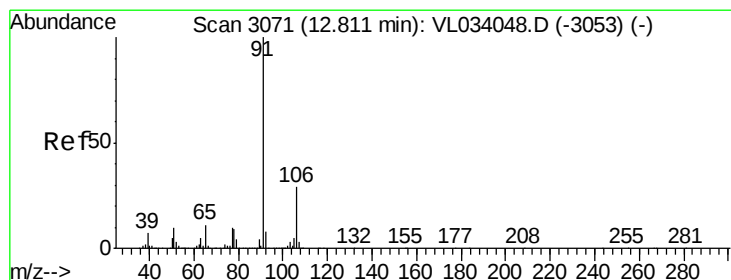
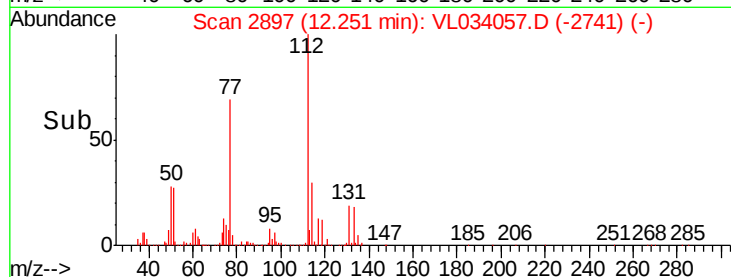
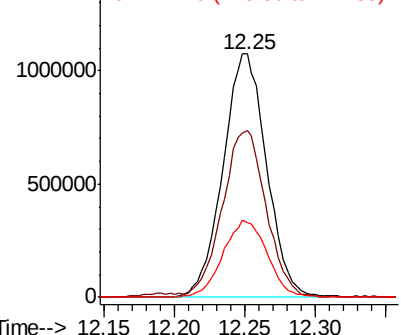
#57
Chlorobenzene
Concen: 9.278 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:112 Resp: 2302297
Ion Ratio Lower Upper
112 100
77 68.5 55.1 82.7
114 30.5 29.5 36.1

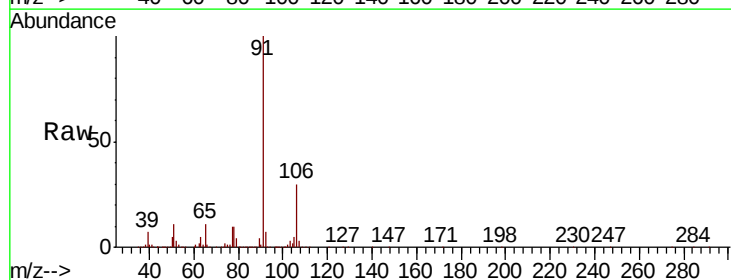


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

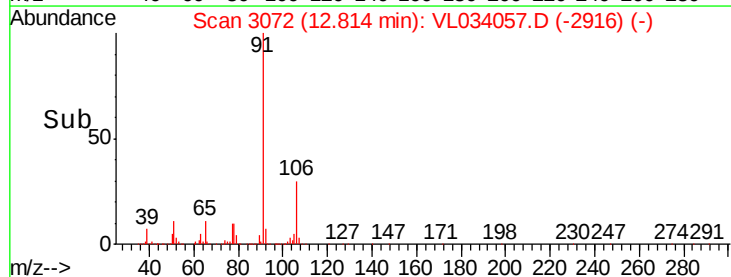
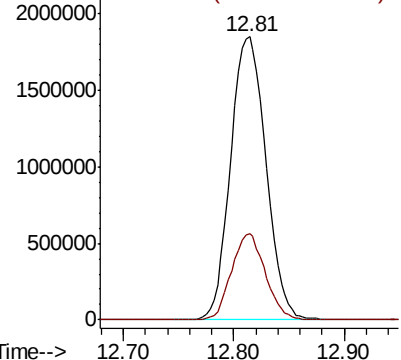


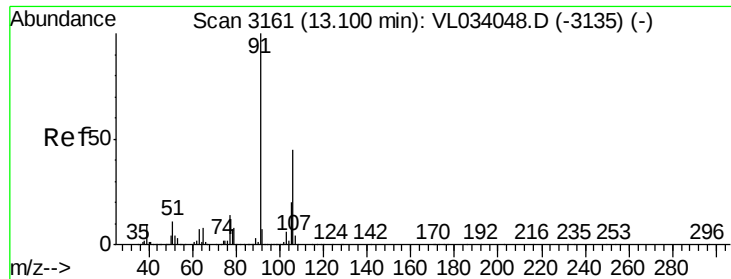
#58
Ethyl Benzene
Concen: 10.861 ppbv
RT: 12.81 min Scan# 3072
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 91 Resp: 4117076
Ion Ratio Lower Upper
91 100
106 30.4 23.5 35.3



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

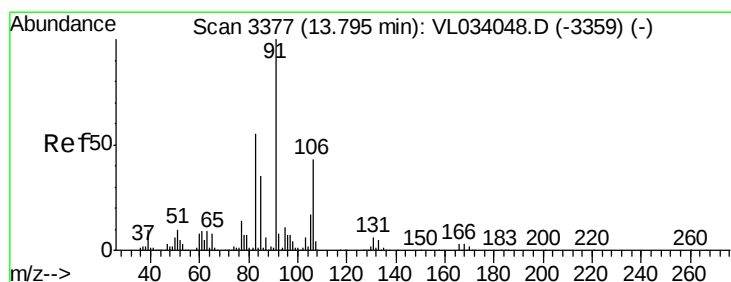
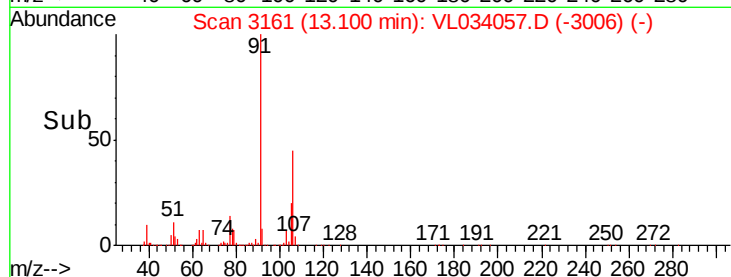
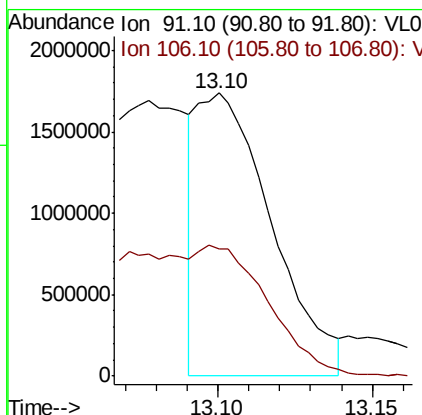
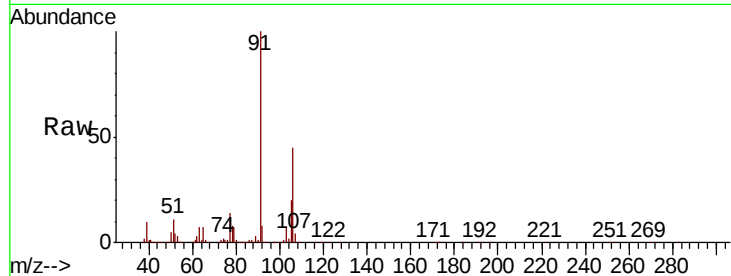




#59
m/p-Xylene
Concen: 8.403 ppbv
RT: 13.10 min Scan# 3161
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

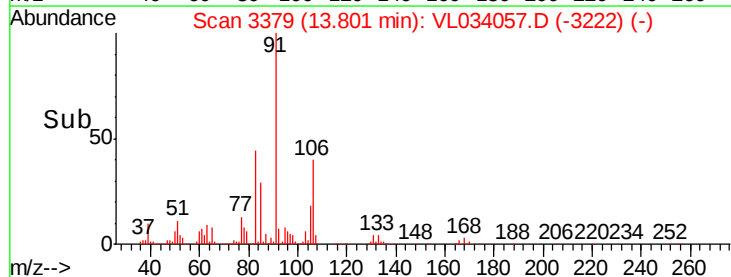
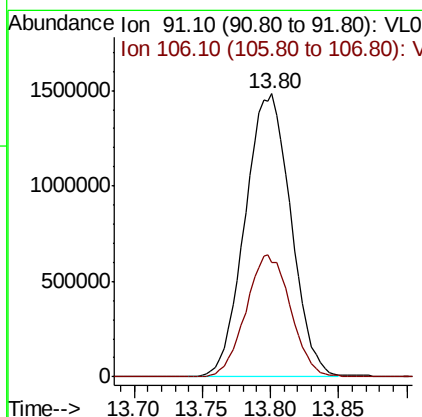
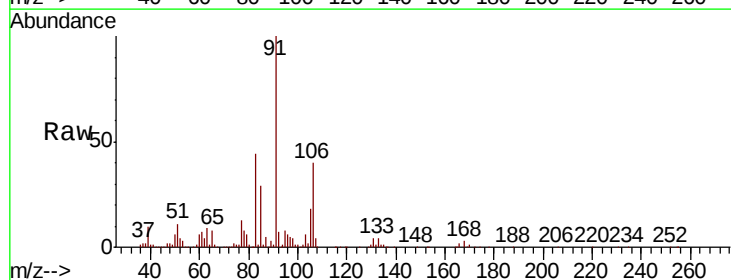
Instrument :
MSVOA_L
ClientSampled :

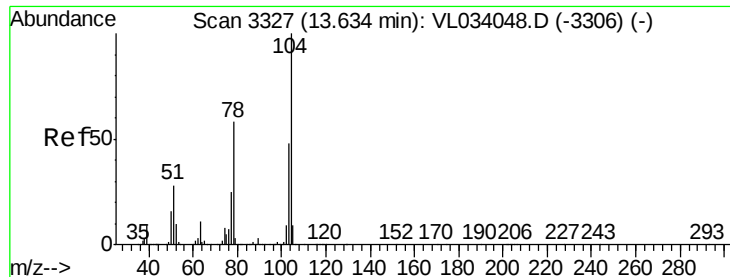
Tot Ion: 91 Resp: 2895448
Ion Ratio Lower Upper
91 100
106 105.6 35.1 52.7#



#60
o-Xylene
Concen: 10.082 ppbv
RT: 13.80 min Scan# 3379
Delta R.T. 0.01 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 91 Resp: 3452995
Ion Ratio Lower Upper
91 100
106 42.1 21.2 63.6





#61

Stvrene

Concen: 11.360 ppbv

RT: 13.63 min Scan# 3327

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

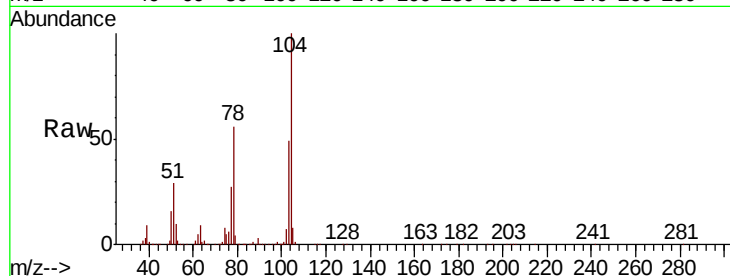
Tot Ion:104 Resp: 2569170

Ion Ratio Lower Upper

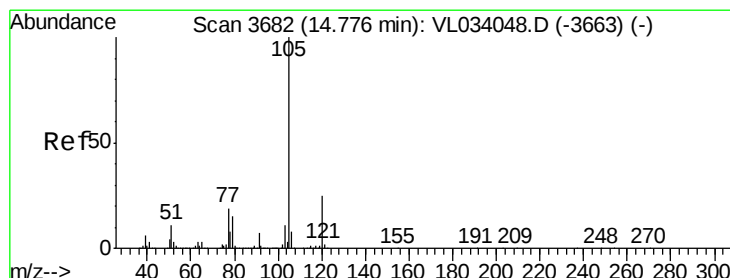
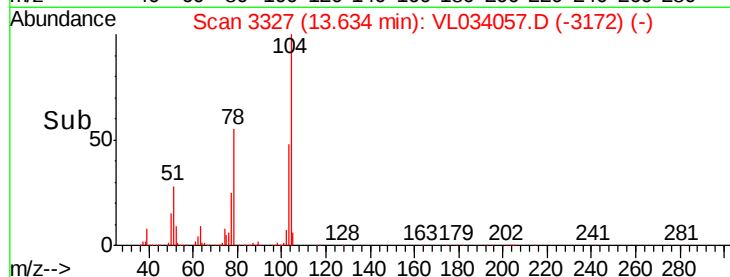
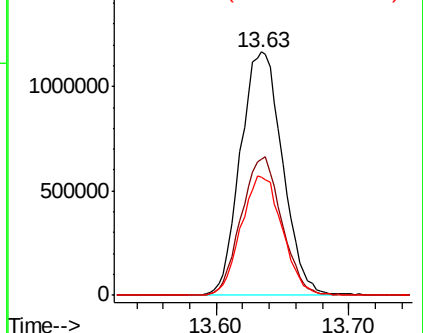
104 100

78 55.0 44.3 66.5

103 48.1 38.8 58.2



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: 10.045 ppbv

RT: 14.78 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VL034057.D

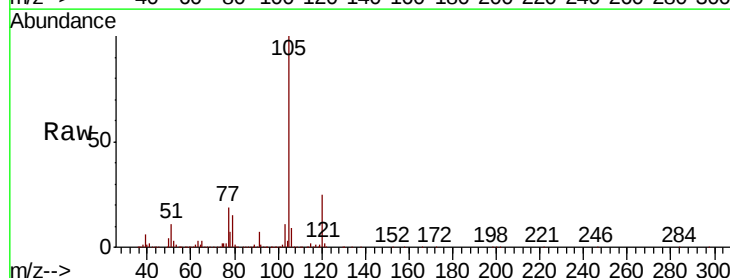
Acq: 30 Jul 2019 9:20

Tgt Ion:105 Resp: 4608774

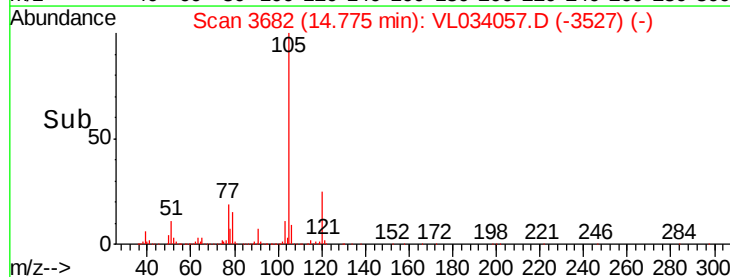
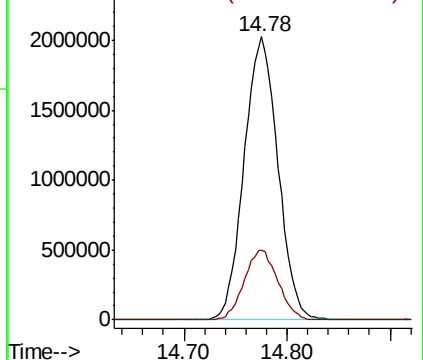
Ion Ratio Lower Upper

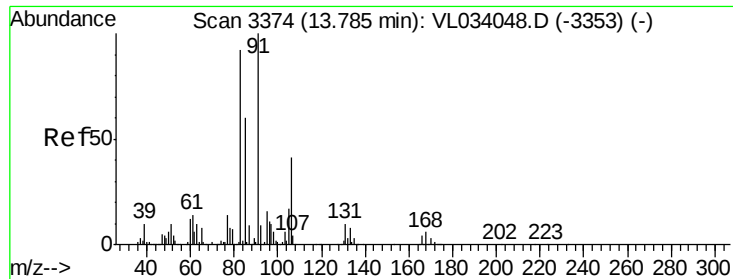
105 100

120 24.8 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V

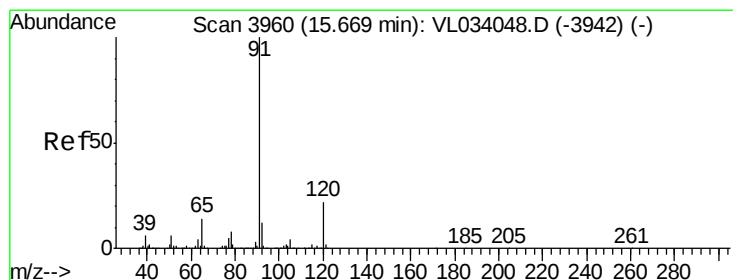
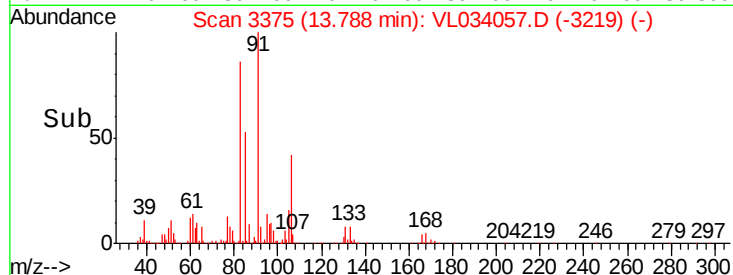
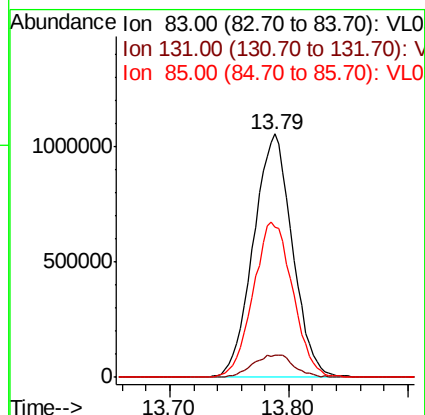
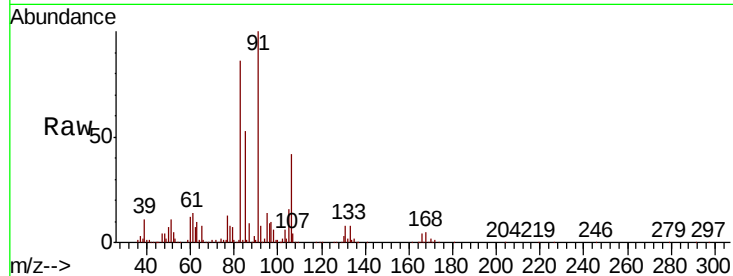




#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.109 ppbv
 RT: 13.79 min Scan# 3375
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

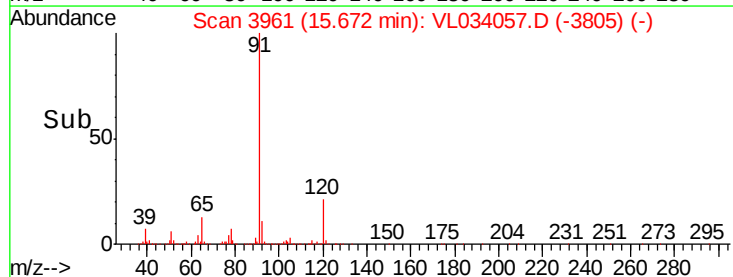
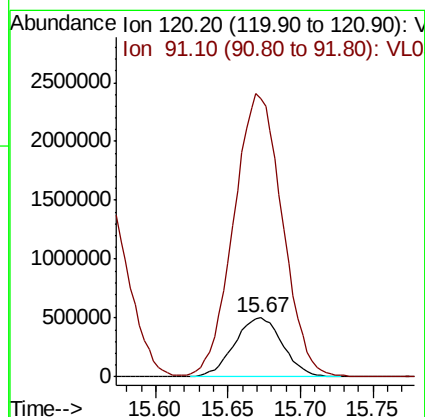
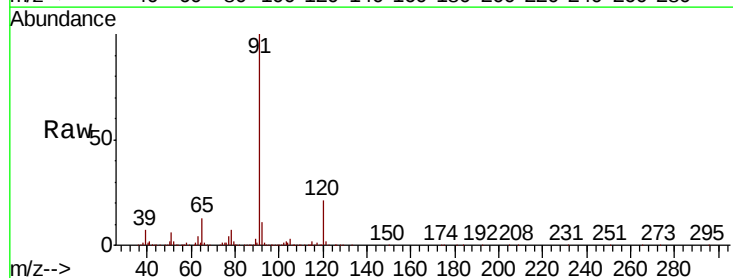
Instrument :
 MSVOA_L
 ClientSampleId :

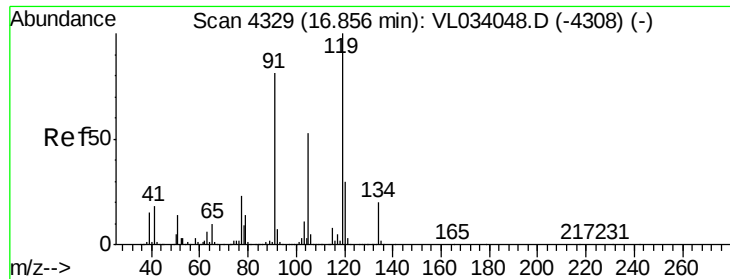
Tot Ion: 83 Resp: 2394135
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.8 14.4
 85 64.7 32.4 97.0



#64
 n-propylbenzene
 Concen: 9.655 ppbv
 RT: 15.67 min Scan# 3961
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion:120 Resp: 1147213
 Ion Ratio Lower Upper
 120 100
 91 491.7 386.2 579.2

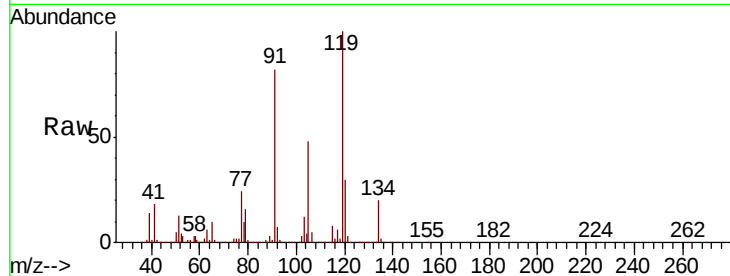




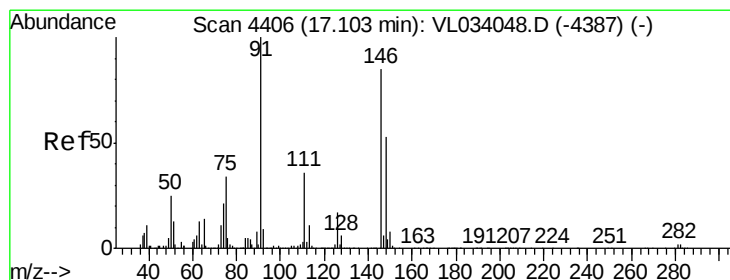
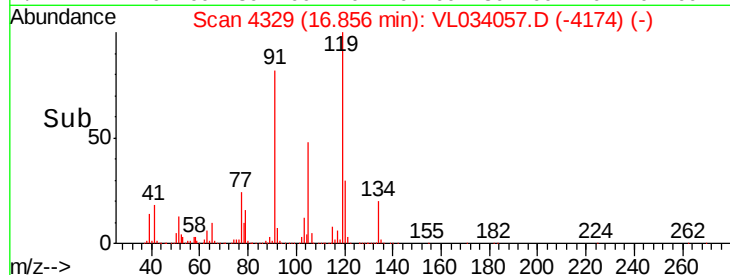
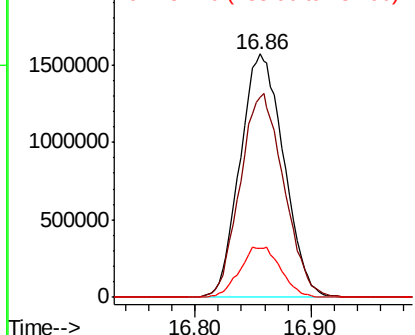
#65
tert-Butylbenzene
Concen: 9.695 ppbv
RT: 16.86 min Scan# 4329
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 119 Resp: 4100631
Ion Ratio Lower Upper
119 100
91 84.2 66.9 100.3
134 19.4 15.5 23.3

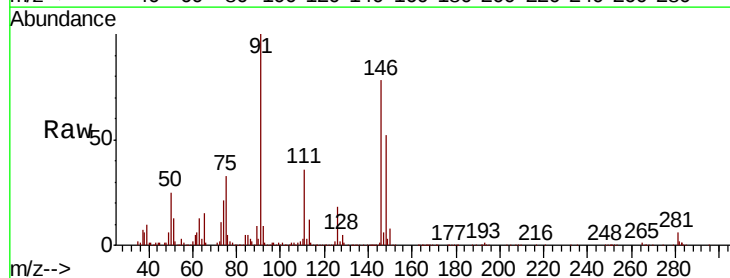


Abundance Ion 119.20 (118.90 to 119.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 134.20 (133.90 to 134.90): V

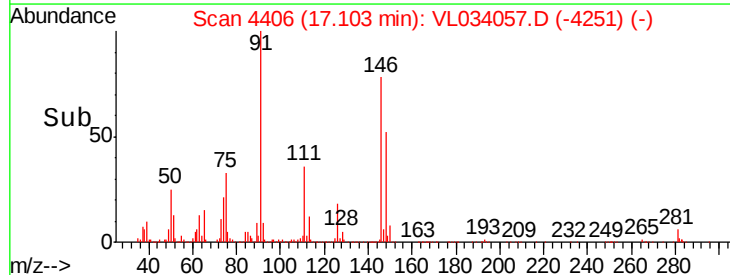
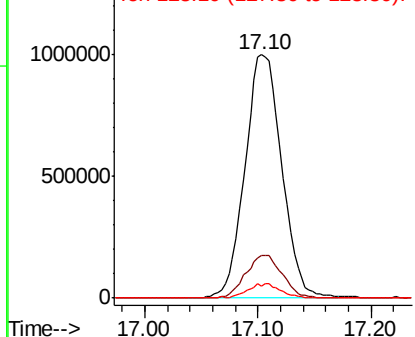


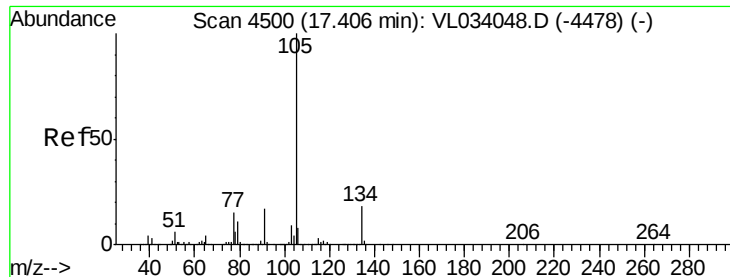
#66
Benzyl Chloride
Concen: 10.649 ppbv
RT: 17.10 min Scan# 4406
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 91 Resp: 2260228
Ion Ratio Lower Upper
91 100
126 17.4 13.5 20.3
128 5.4 4.5 6.7



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

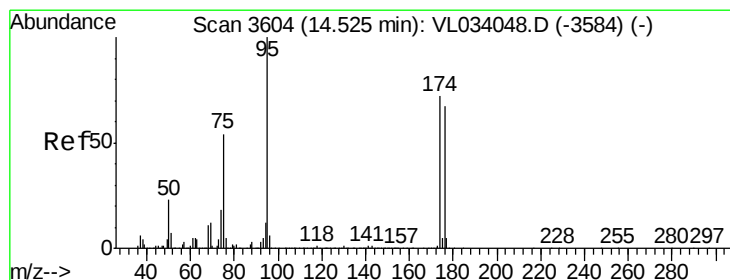
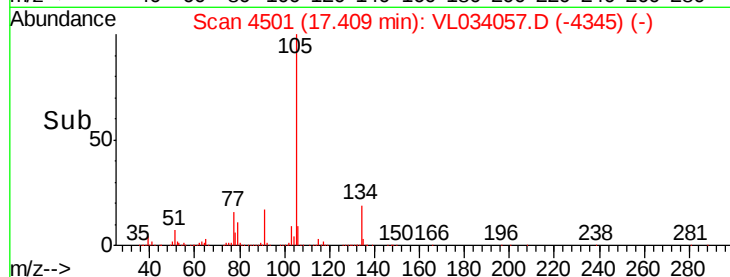
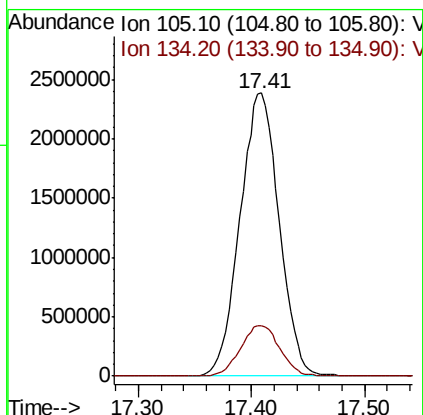
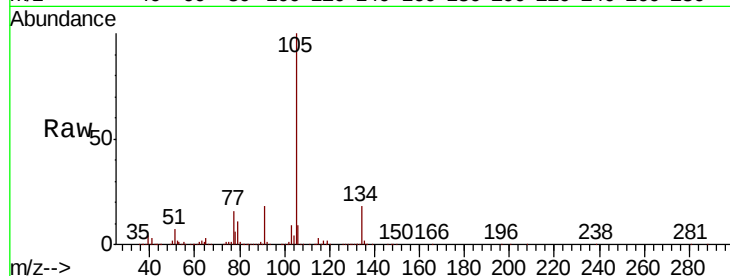




#67
 sec-Butylbenzene
 Concen: 9.526 ppbv
 RT: 17.41 min Scan# 4501
 Delta R.T. 0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

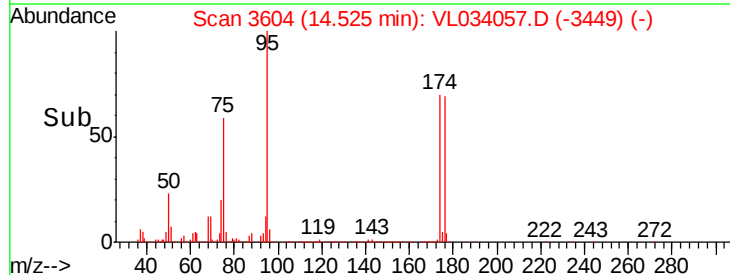
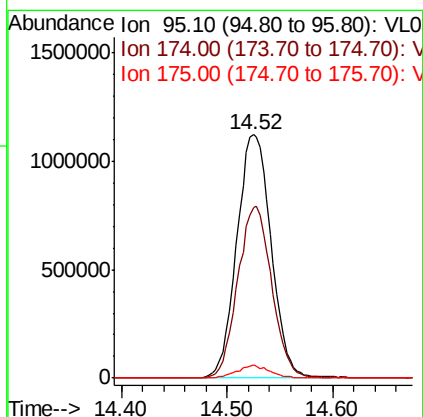
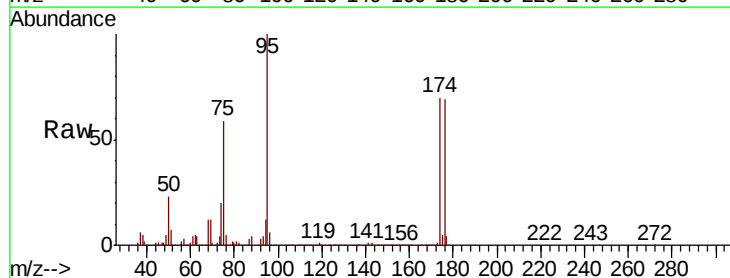
Instrument :
 MSVOA_L
 ClientSampled :

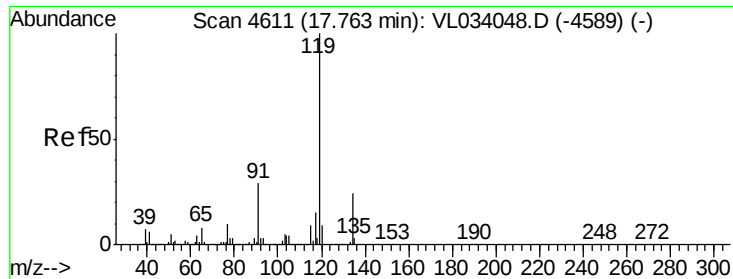
Tot Ion:105 Resp: 5727654
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.3 21.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.044 ppbv
 RT: 14.52 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion: 95 Resp: 2542960
 Ion Ratio Lower Upper
 95 100
 174 69.9 57.6 86.4
 175 4.9 4.1 6.1

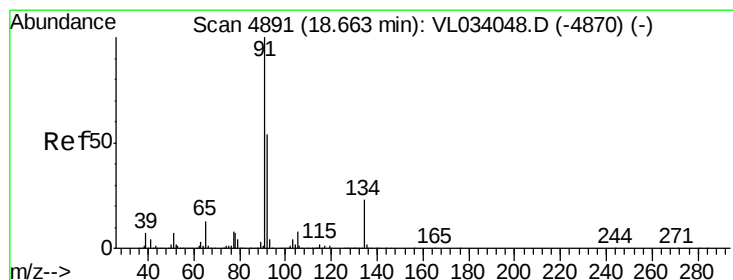
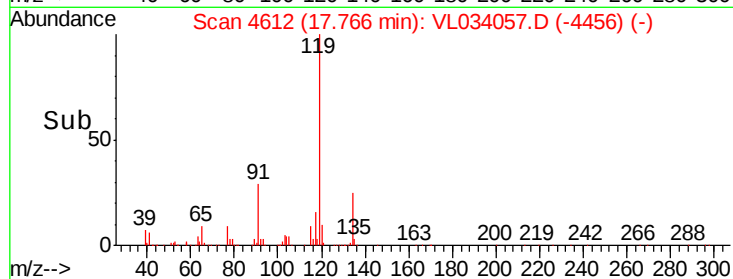
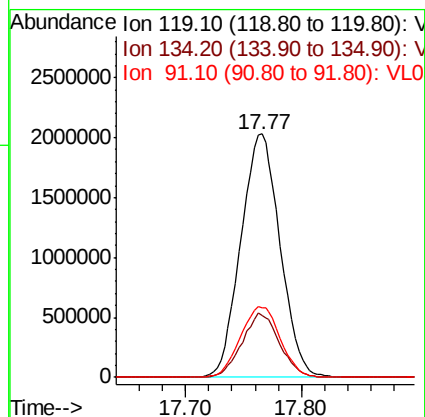
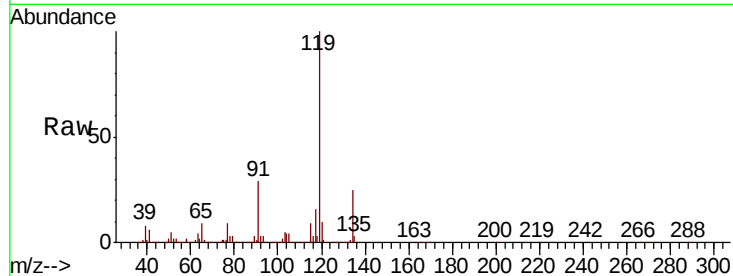




#69
p-Isopropyltoluene
Concen: 9.731 ppbv
RT: 17.77 min Scan# 4612
Delta R.T. 0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

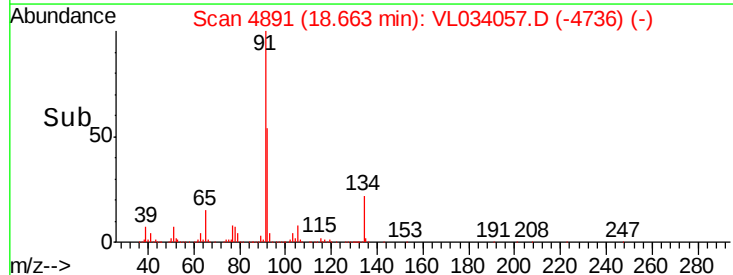
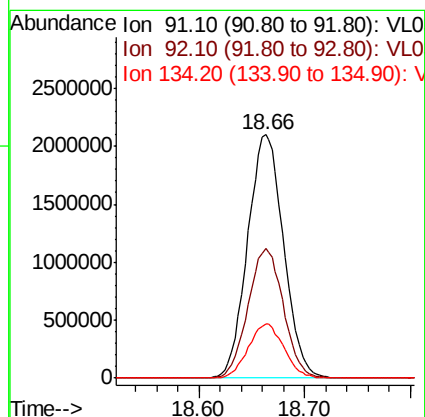
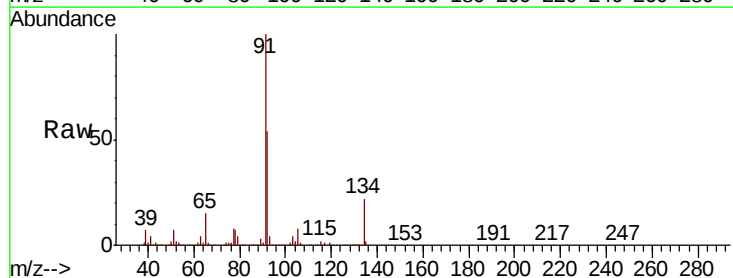
Instrument :
MSVOA_L
ClientSampleId :

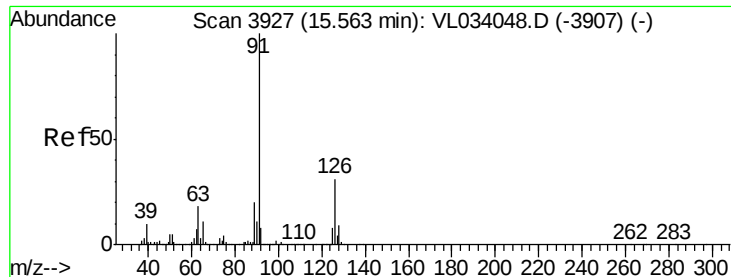
Tot Ion:119 Resp: 4768839
Ion Ratio Lower Upper
119 100
134 25.2 20.1 30.1
91 29.8 23.6 35.4



#70
n-Butylbenzene
Concen: 9.614 ppbv
RT: 18.66 min Scan# 4891
Delta R.T. -0.00 min
Lab File: VL034057.D
Acq: 30 Jul 2019 9:20

Tgt Ion: 91 Resp: 4987225
Ion Ratio Lower Upper
91 100
92 52.4 42.6 64.0
134 22.1 17.7 26.5





#71

2-Chlorotoluene

Concen: 10.391 ppbv

RT: 15.56 min Scan# 3927

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

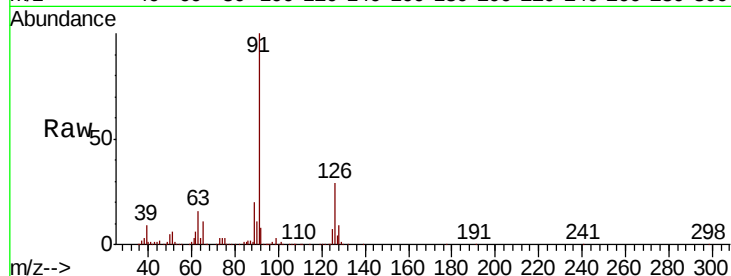
ClientSampled :

Tot Ion: 91 Resp: 3461369

Ion Ratio Lower Upper

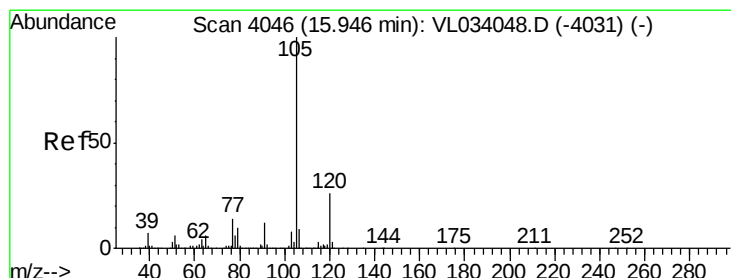
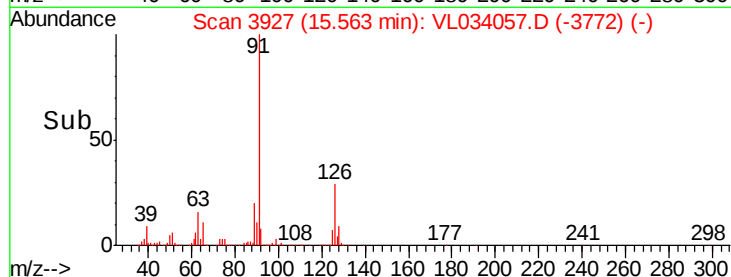
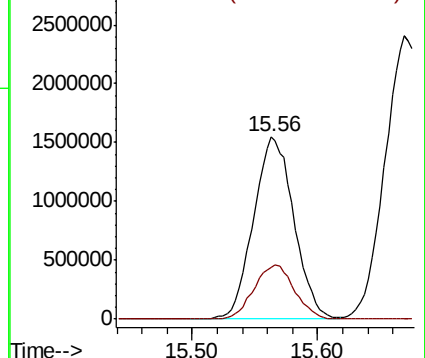
91 100

126 30.0 12.0 48.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.450 ppbv

RT: 15.95 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tgt Ion:105 Resp: 4046900

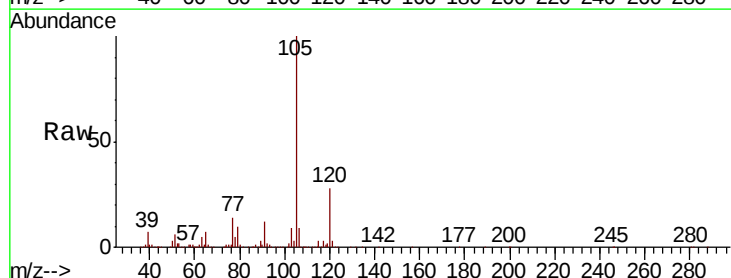
Ion Ratio Lower Upper

105 100

120 27.9 23.0 34.4

91 12.8 10.6 16.0

77 14.4 11.5 17.3

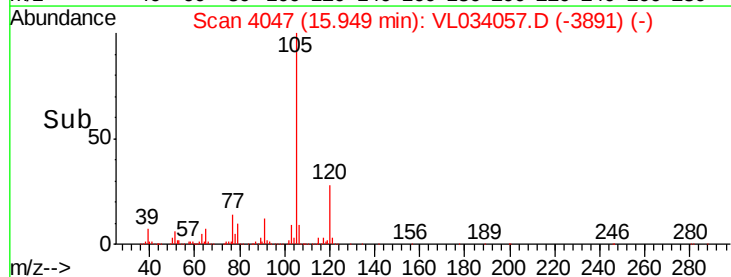
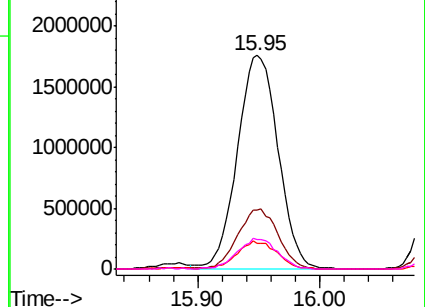


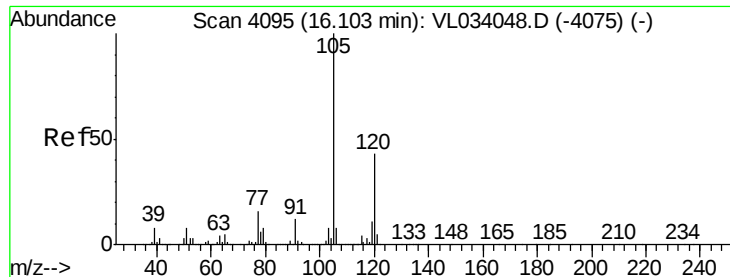
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 9.565 ppbv

RT: 16.11 min Scan# 4096

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

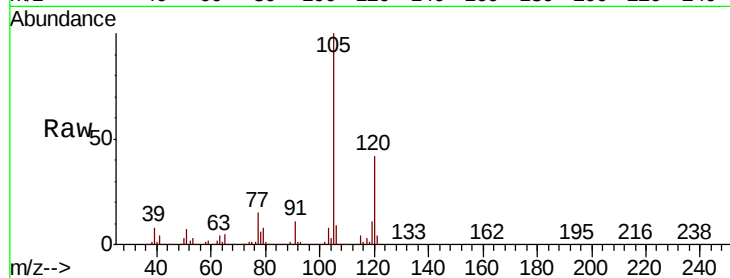
ClientSampleId :

Tot Ion:105 Resp: 3769886

Ion Ratio Lower Upper

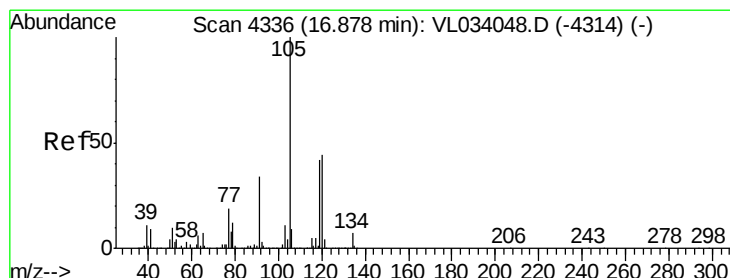
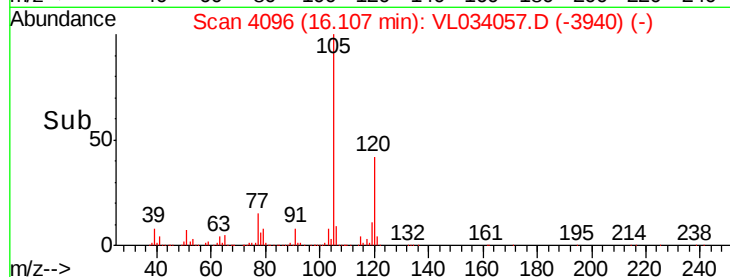
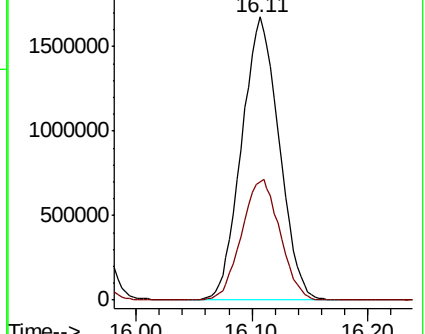
105 100

120 41.9 34.7 52.1



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: 9.242 ppbv

RT: 16.87 min Scan# 4334

Delta R.T. -0.01 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Tgt Ion:105 Resp: 4001372

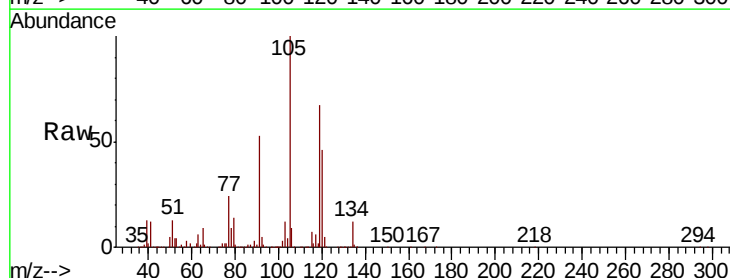
Ion Ratio Lower Upper

105 100

120 45.7 35.6 53.4

91 53.2 28.0 42.0#

77 23.6 15.2 22.8#

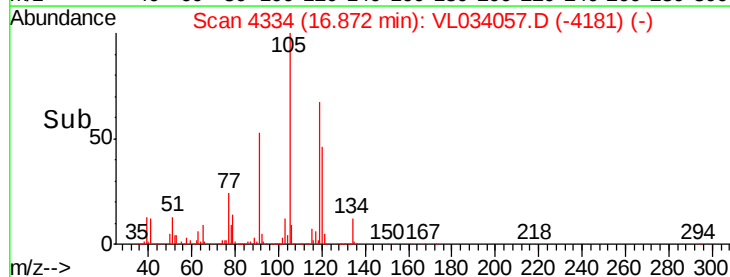
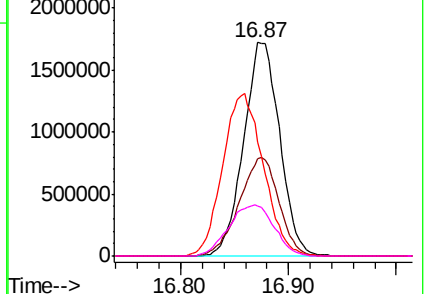


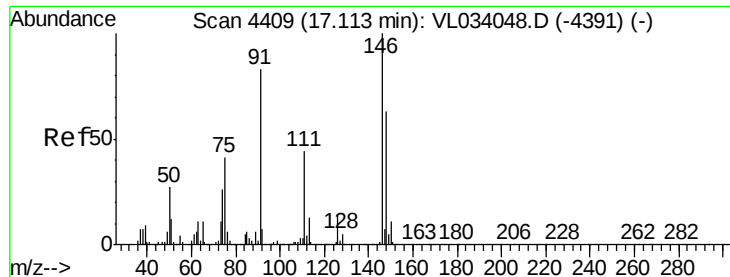
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.733 ppbv

RT: 17.12 min Scan# 4410

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

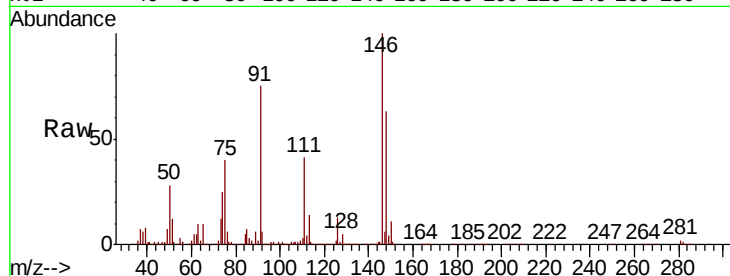
Tot Ion:146 Resp: 2358953

Ion Ratio Lower Upper

146 100

111 45.3 22.1 66.5

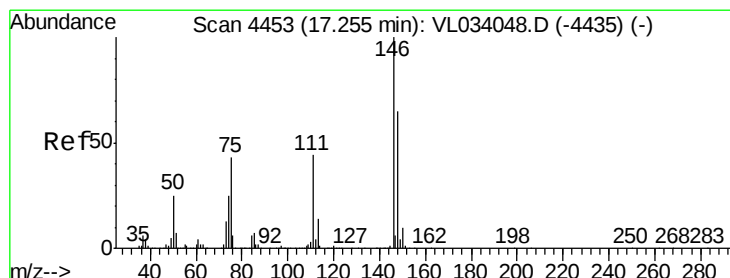
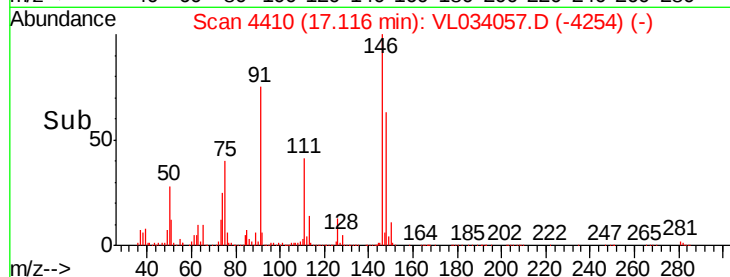
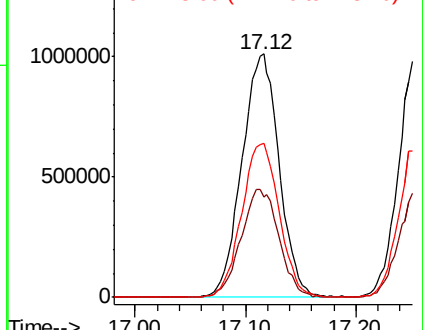
148 64.0 32.0 96.2



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: 9.239 ppbv

RT: 17.26 min Scan# 4454

Delta R.T. 0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

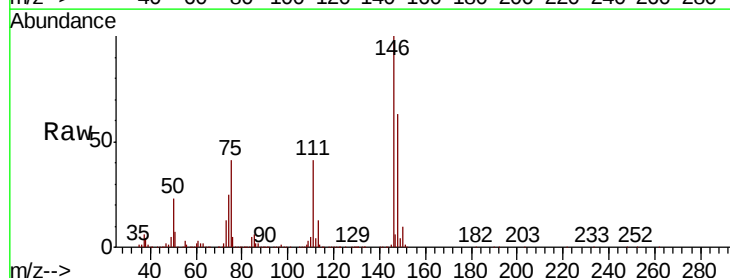
Tgt Ion:146 Resp: 2355300

Ion Ratio Lower Upper

146 100

111 43.8 21.8 65.4

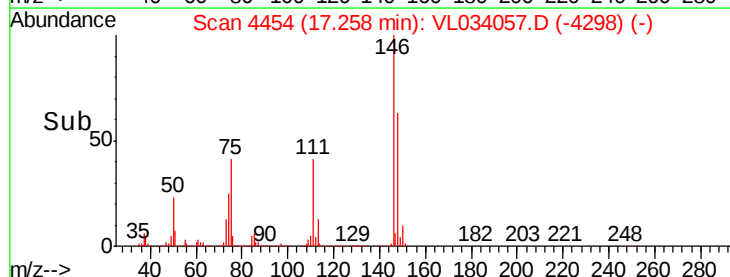
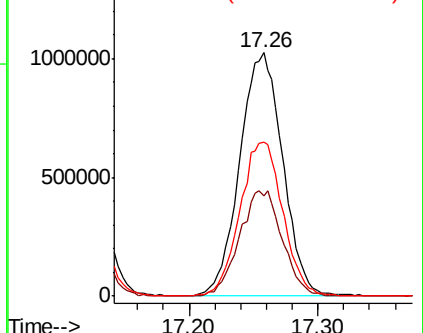
148 64.0 32.3 96.9

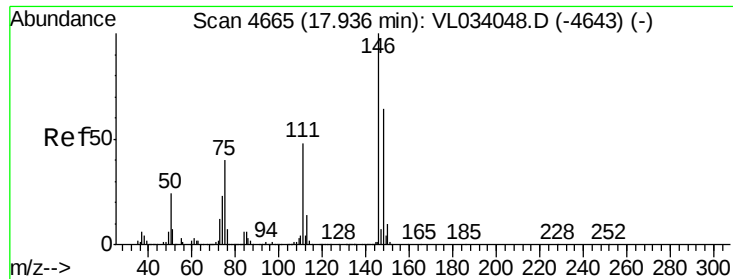


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

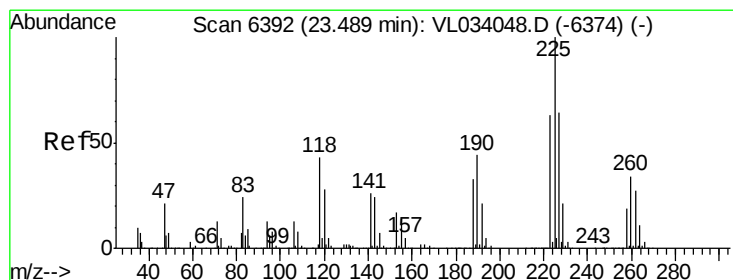
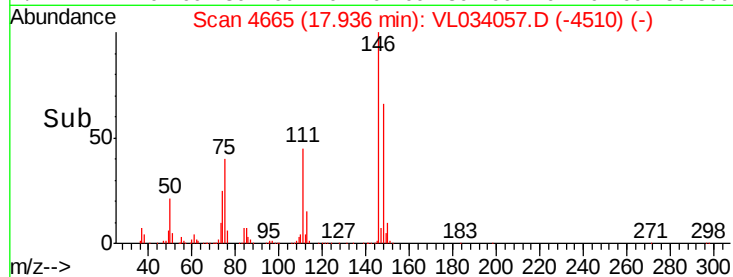
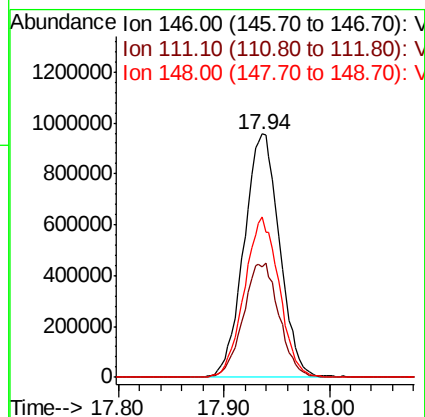
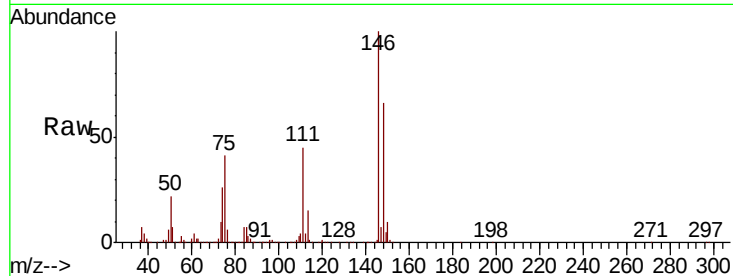




#77
 1,2-Dichlorobenzene
 Concen: 9.033 ppbv
 RT: 17.94 min Scan# 4665
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

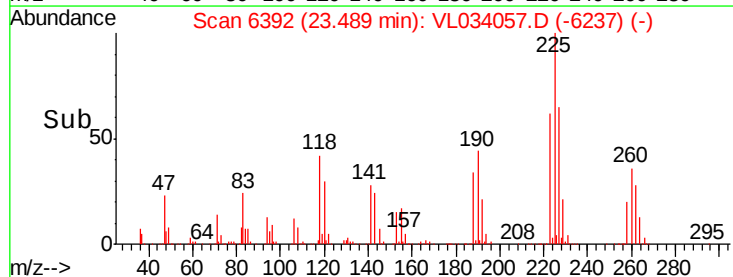
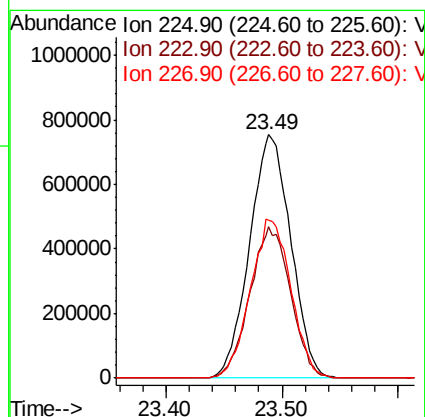
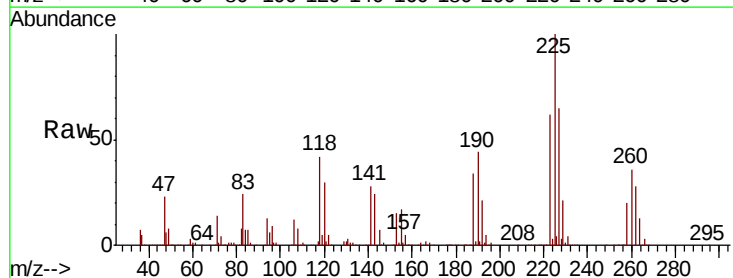
Instrument :
 MSVOA_L
 ClientSampleId :

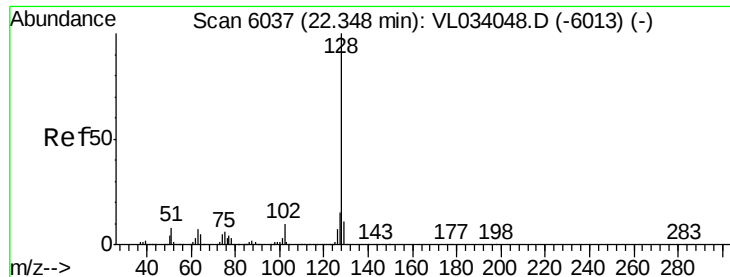
Tot Ion:146 Resp: 2246388
 Ion Ratio Lower Upper
 146 100
 111 47.1 23.4 70.2
 148 64.5 32.3 96.9



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.144 ppbv
 RT: 23.49 min Scan# 6392
 Delta R.T. -0.00 min
 Lab File: VL034057.D
 Acq: 30 Jul 2019 9:20

Tgt Ion:225 Resp: 1863167
 Ion Ratio Lower Upper
 225 100
 223 61.3 49.6 74.4
 227 64.4 51.4 77.2





#79

Naphthalene

Concen: 9.868 ppbv

RT: 22.35 min Scan# 6037

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

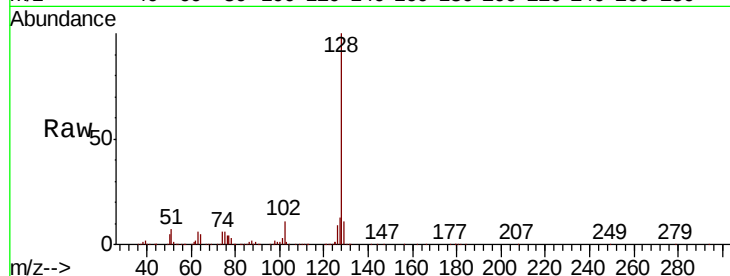
Tot Ion:128 Resp: 3724355

Ion Ratio Lower Upper

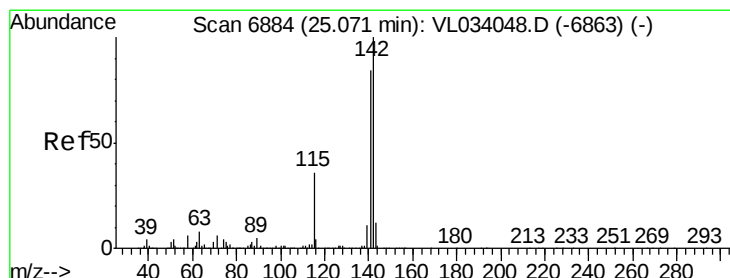
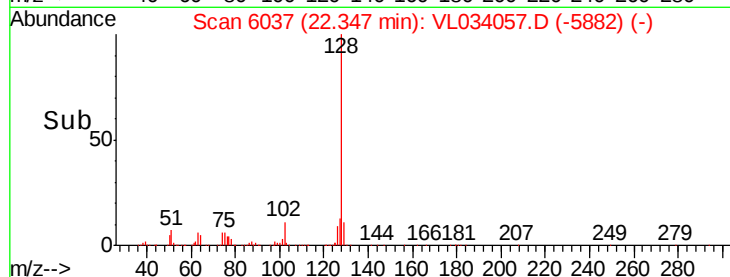
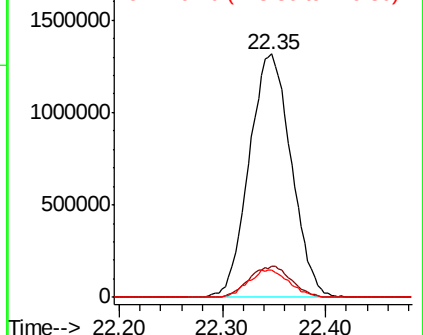
128 100

127 13.0 11.8 17.6

129 11.2 9.1 13.7



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: 9.301 ppbv

RT: 25.07 min Scan# 6883

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

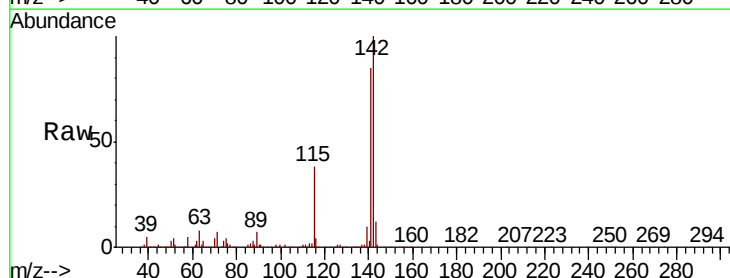
Tgt Ion:142 Resp: 1223909

Ion Ratio Lower Upper

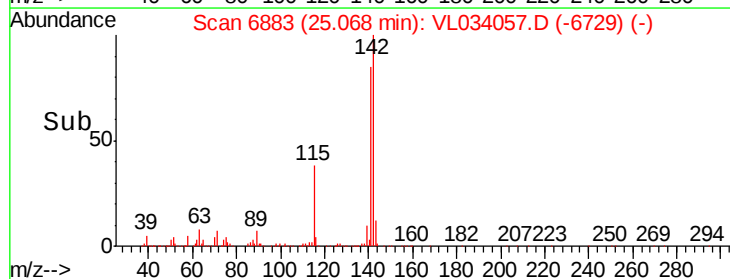
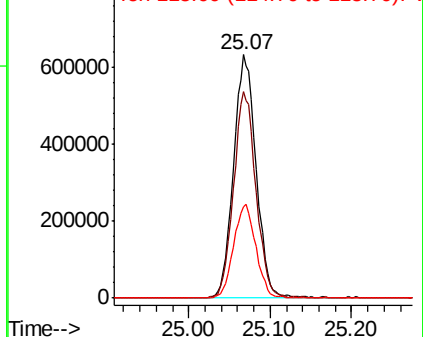
142 100

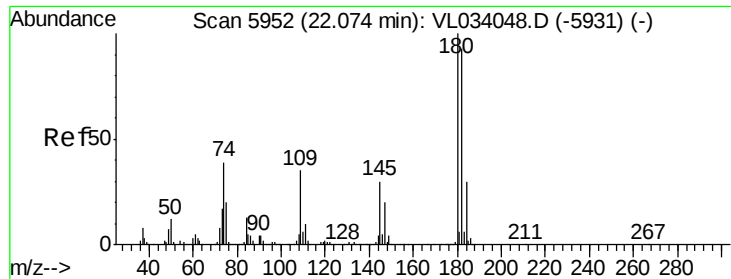
141 84.1 67.6 101.4

115 38.3 29.8 44.6



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: 9.242 ppbv

RT: 22.07 min Scan# 5952

Delta R.T. -0.00 min

Lab File: VL034057.D

Acq: 30 Jul 2019 9:20

Instrument :

MSVOA_L

ClientSampleId :

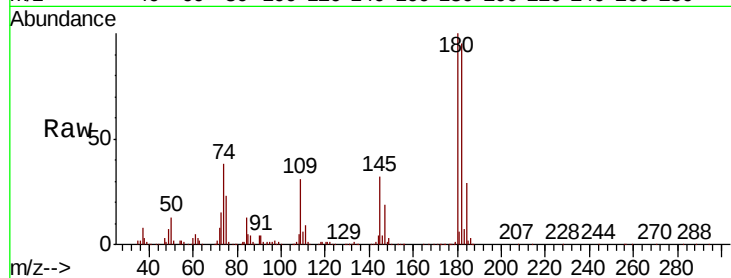
Tot Ion:180 Resp: 2248565

Ion Ratio Lower Upper

180 100

182 96.6 76.5 114.7

184 30.2 24.5 36.7



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

