

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034067.D
 Acq On : 30 Jul 2019 17:45
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 31 02:13:42 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	1359453	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	3369254	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	4040944	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	2642139	8.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	1983343	7.595	ppbv 100
3) Chlorodifluoromethane	2.99	51	1469624	9.365	ppbv 94
4) Chloromethane	3.14	50	916534	9.958	ppbv 100
5) Vinyl Chloride	3.26	62	935860	9.227	ppbv 97
6) Bromomethane	3.48	94	588233	9.212	ppbv 98
7) Chloroethane	3.57	64	360613	8.774	ppbv 95
8) Dichlorotetrafluoroethane	3.19	85	2217949	8.527	ppbv 99
9) Propene	3.01	41	674270	11.969	ppbv 99
10) Heptane	8.20	43	2260129	14.709	ppbv 96
11) Trichlorofluoromethane	3.97	101	2502913	8.618	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.52	101	2350419	12.032	ppbv 99
13) Ethanol	3.62	45	151085	6.738	ppbv 98
14) Bromoethene	3.75	108	755437	9.158	ppbv 97
15) Acetone	3.87	43	1625273	7.863	ppbv 98
16) 1,3-Butadiene	3.33	39	812995	10.129	ppbv 100
17) tert-Butyl alcohol	4.32	59	2430518	14.302	ppbv 100
18) 1,1-Dichloroethene	4.32	96	1108687	12.528	ppbv 95
19) Isopropyl Alcohol	3.99	45	1935219	13.710	ppbv # 98
20) Methylene Chloride	4.37	84	969064	12.259	ppbv 97
21) Allyl Chloride	4.44	41	1775400	13.611	ppbv 95
22) trans-1,2-Dichloroethene	4.92	96	768153	8.378	ppbv 97
23) Vinyl Acetate	5.12	43	2545721	11.502	ppbv 99
24) 1,1-Dichloroethane	5.05	63	1793194	9.120	ppbv 99
25) Ethyl Acetate	5.72	43	3113703	10.134	ppbv 99
26) Hexane	5.73	57	1375006	9.894	ppbv 97
27) Carbon Disulfide	4.58	76	2853713	13.186	ppbv 100
28) Methyl tert-Butyl Ether	5.07	73	2452752	10.369	ppbv 99
29) Chloroform	5.81	83	2184988	8.608	ppbv 97
30) Cyclohexane	7.20	84	1155960	8.186	ppbv 97
31) cis-1,2-Dichloroethene	5.60	61	1435276	10.596	ppbv 96
32) 1,1,1-Trichloroethane	6.58	97	2100832	7.885	ppbv 99
34) 2-Butanone	5.29	43	1987139	14.331	ppbv 98
35) Carbon Tetrachloride	7.09	117	2194716	9.230	ppbv 96
36) Benzene	6.96	78	2846670	12.692	ppbv 99
37) 1,2-Dichloroethane	6.37	62	1610929	10.452	ppbv # 97
38) Trichloroethene	7.91	130	1601748	17.041	ppbv 95
39) 1,2-Dichloropropane	7.69	63	1522782	16.730	ppbv 93
40) 1,4-Dioxane	7.90	88	643430	17.902	ppbv # 1
41) Tetrahydrofuran	6.10	42	1102371	15.651	ppbv 95
42) Bromodichloromethane	7.87	83	3399365	15.952	ppbv 96
43) Methyl Methacrylate	8.09	69	1101726	13.781	ppbv 100

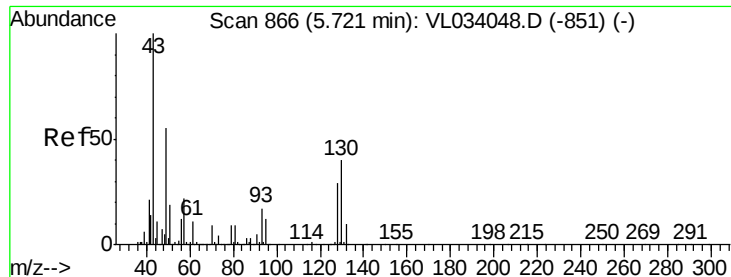
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034067.D
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Quant Time: Jul 31 02:13:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 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)
44) 2,2,4-Trimethylpentane	7.94	57	6668304	17.907	ppbv	98
45) t-1,3-Dichloropropene	9.37	75	1464087	14.234	ppbv	98
46) cis-1,3-Dichloropropene	8.79	75	1675643	14.494	ppbv	98
47) 1,1,2-Trichloroethane	9.57	97	1111116	11.736	ppbv	98
48) Dibromochloromethane	10.40	129	1944379	10.757	ppbv	99
49) Bromoform	13.15	173	1769063	11.226	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	2741375	13.317	ppbv	99
51) 2-Hexanone	10.22	43	2251032	13.149	ppbv #	100
52) Tetrachloroethene	11.32	164	1019962	11.597	ppbv	97
53) Toluene	9.89	91	3275746	13.998	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1712181	12.184	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.23	131	1290179	7.145	ppbv	98
57) Chlorobenzene	12.25	112	2408052	7.692	ppbv	97
58) Ethyl Benzene	12.81	91	4257692	8.903	ppbv	99
59) m/p-Xylene	13.10	91	3818318	8.783	ppbv #	40
60) o-Xylene	13.80	91	3451781	7.989	ppbv	99
61) Styrene	13.63	104	2669995	9.358	ppbv	99
62) Isopropylbenzene	14.78	105	4784797	8.266	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	2362007	7.123	ppbv	100
64) n-propylbenzene	15.67	120	1217646	8.123	ppbv	100
65) tert-Butylbenzene	16.86	119	4173185	7.820	ppbv	99
66) Benzyl Chloride	17.10	91	2315293	8.647	ppbv	100
67) sec-Butylbenzene	17.40	105	5999252	7.909	ppbv	100
69) p-Isopropyltoluene	17.76	119	5057473	8.180	ppbv	99
70) n-Butylbenzene	18.67	91	5412279	8.270	ppbv	100
71) 2-Chlorotoluene	15.57	91	3605704	8.579	ppbv	100
72) 4-Ethyltoluene	15.95	105	4165354	8.526	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3974512	7.993	ppbv	98
74) 1,2,4-Trimethylbenzene	16.88	105	4112919	7.529	ppbv #	93
75) 1,3-Dichlorobenzene	17.12	146	2427904	7.125	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	2452789	7.626	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2428442	7.740	ppbv	99
78) Hexachloro-1,3-Butadiene	23.49	225	2081550	7.212	ppbv	99
79) Naphthalene	22.35	128	4774265	10.027	ppbv	96
80) Naphthalene, 2-methyl-	25.07	142	1133271	6.826	ppbv	99
81) 1,2,4-Trichlorobenzene	22.07	180	2748775	8.955	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: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

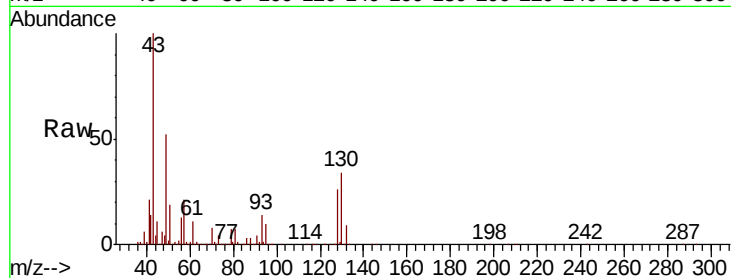
Tot Ion: 49 Resp: 1359453

Ion Ratio Lower Upper

49 100

128 50.3 27.0 81.0

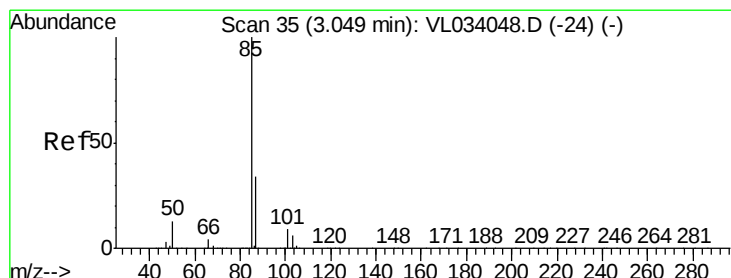
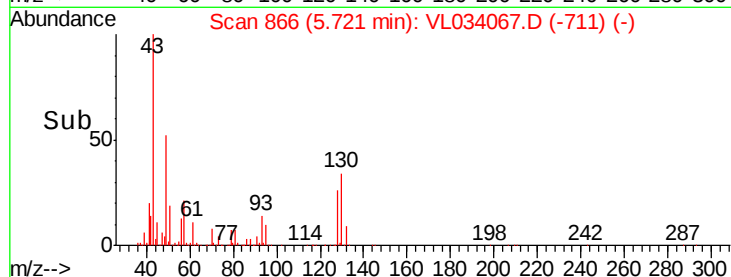
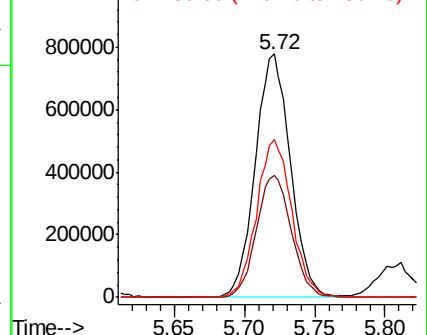
130 65.2 35.0 105.0



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



#2

Dichlorodifluoromethane

Concen: 7.595 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.00 min

Lab File: VL034067.D

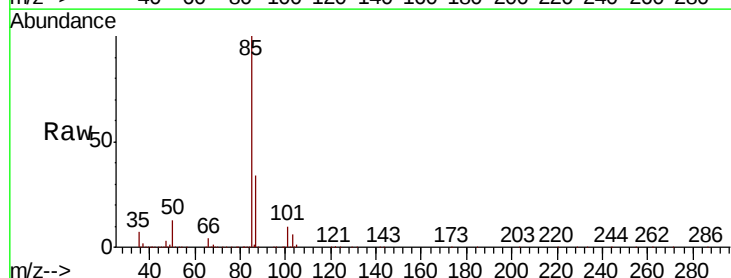
Acq: 30 Jul 2019 17:45

Tgt Ion: 85 Resp: 1983343

Ion Ratio Lower Upper

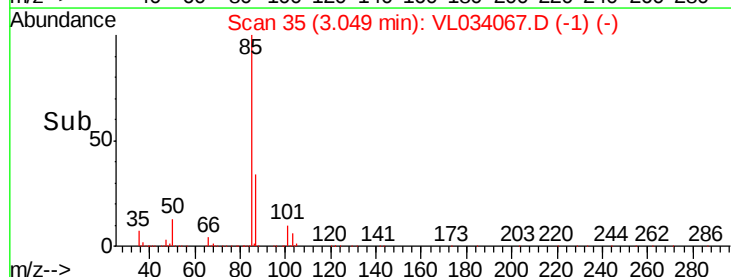
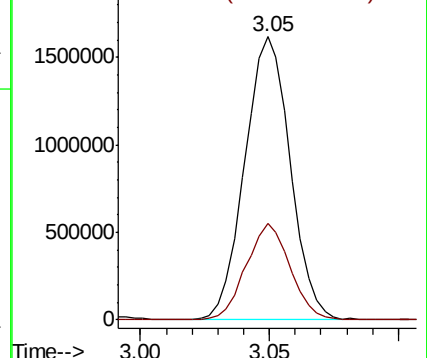
85 100

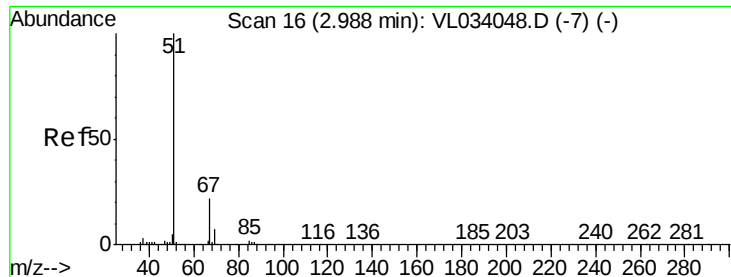
87 33.9 27.0 40.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.365 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

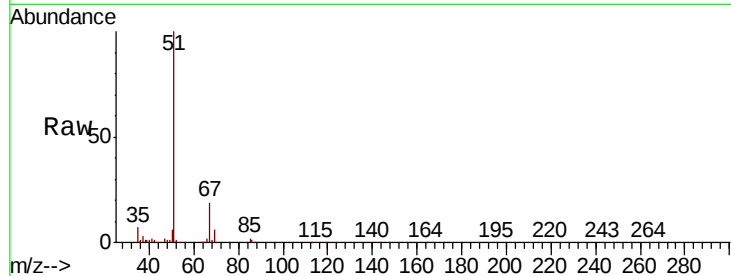
ClientSampleId :

Tot Ion: 51 Resp: 1469624

Ion Ratio Lower Upper

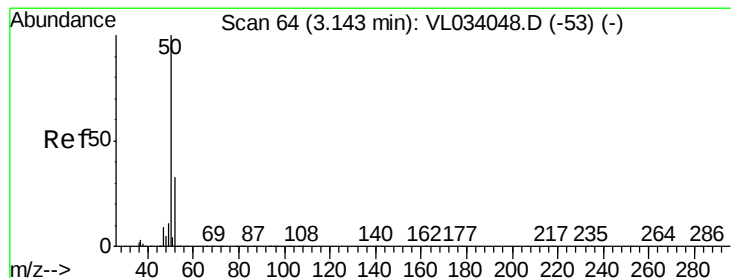
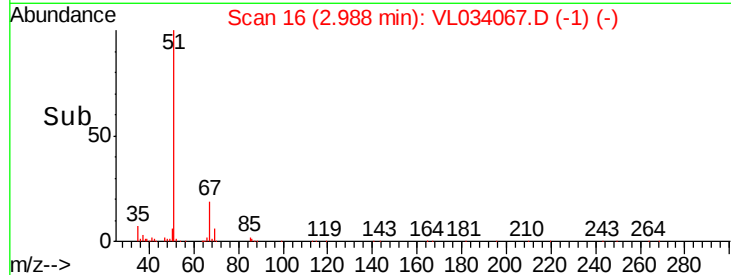
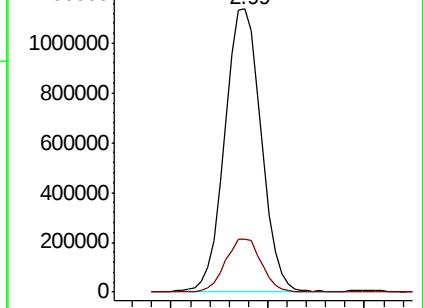
51 100

67 19.0 17.4 26.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.958 ppbv

RT: 3.14 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL034067.D

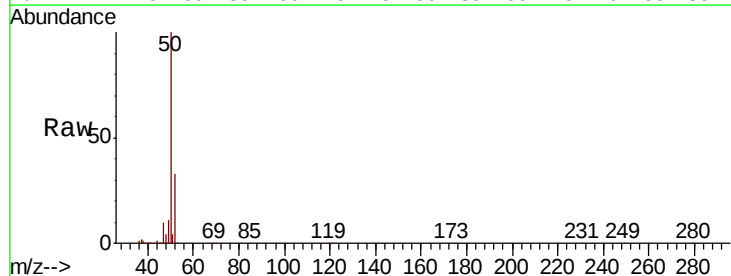
Acq: 30 Jul 2019 17:45

Tgt Ion: 50 Resp: 916534

Ion Ratio Lower Upper

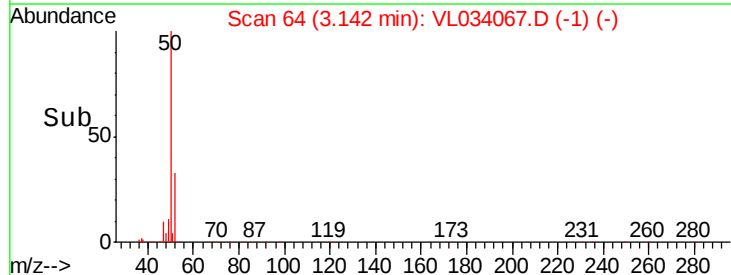
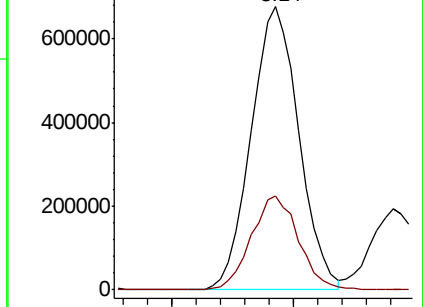
50 100

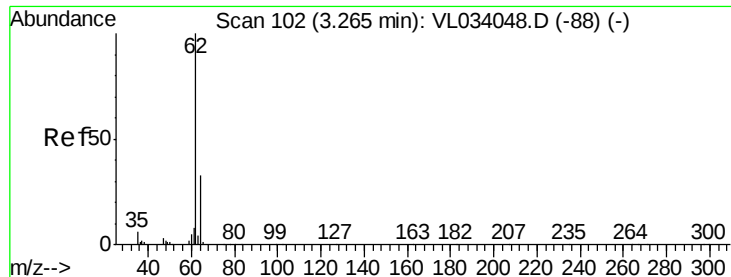
52 33.1 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.227 ppbv

RT: 3.26 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

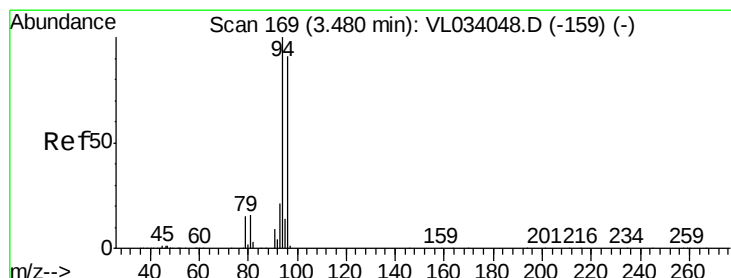
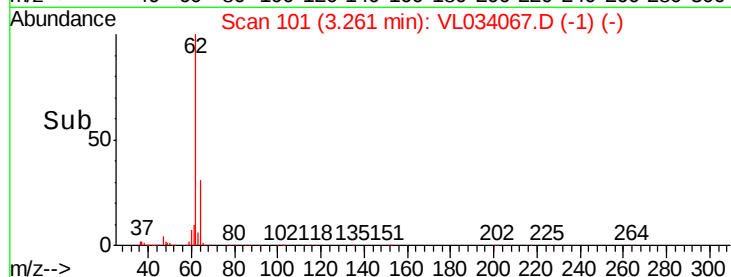
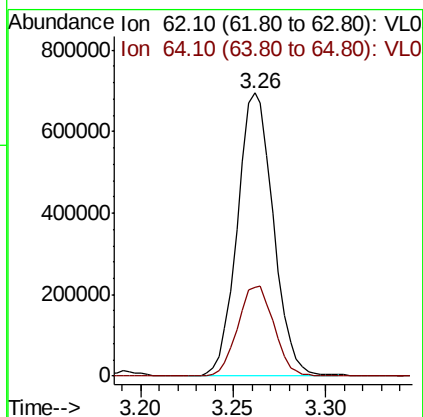
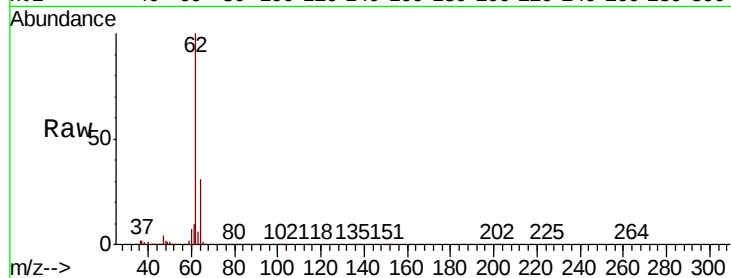
ClientSampleId :

Tot Ion: 62 Resp: 935860

Ion Ratio Lower Upper

62 100

64 31.4 26.5 39.7



#6

Bromomethane

Concen: 9.212 ppbv

RT: 3.48 min Scan# 170

Delta R.T. 0.00 min

Lab File: VL034067.D

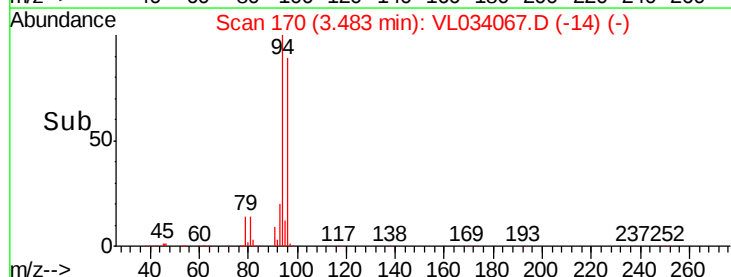
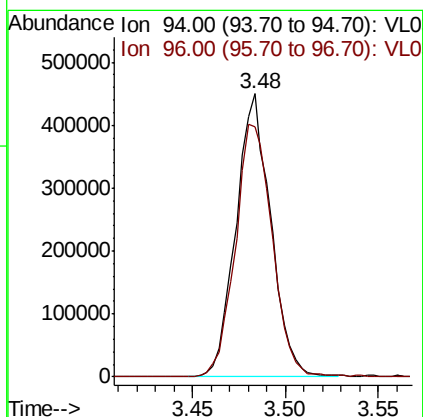
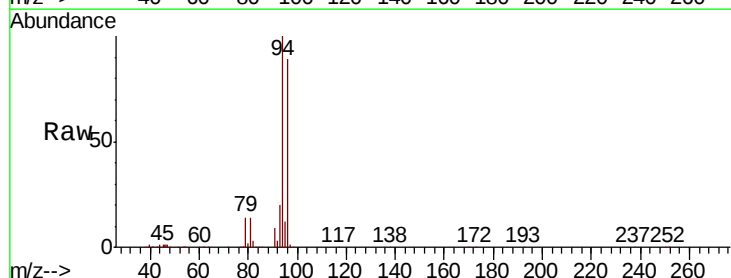
Acq: 30 Jul 2019 17:45

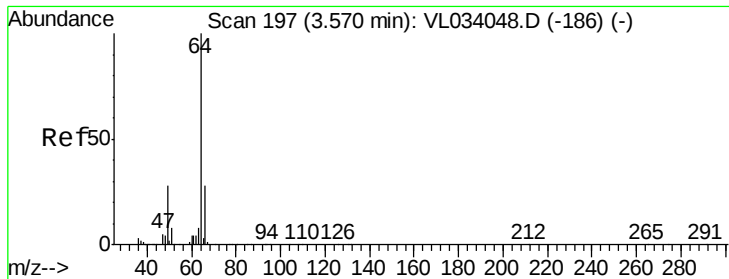
Tgt Ion: 94 Resp: 588233

Ion Ratio Lower Upper

94 100

96 88.5 72.6 108.8





#7

Chloroethane

Concen: 8.774 ppbv

RT: 3.57 min Scan# 196

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

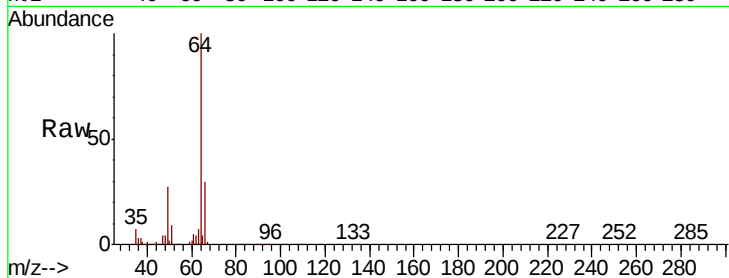
ClientSampleId :

Tot Ion: 64 Resp: 360613

Ion Ratio Lower Upper

64 100

66 30.0 22.0 33.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.57

250000

200000

150000

100000

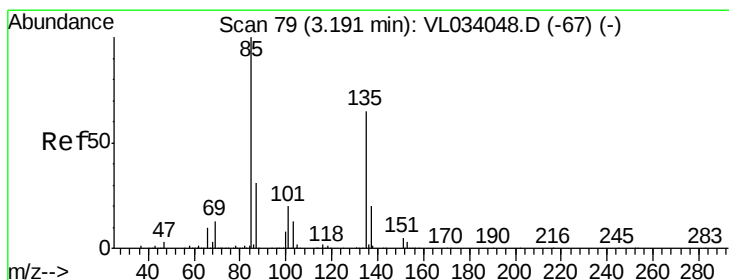
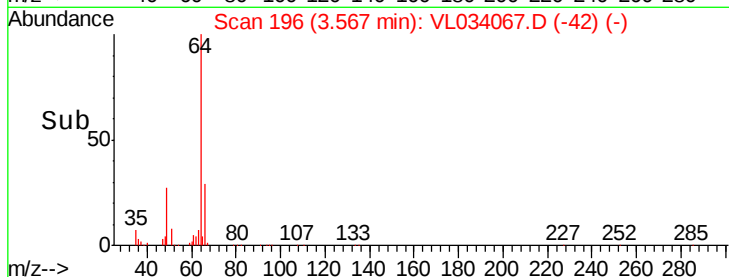
50000

0

Time-->

3.55

3.60



#8

Dichlorotetrafluoroethane

Concen: 8.527 ppbv

RT: 3.19 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL034067.D

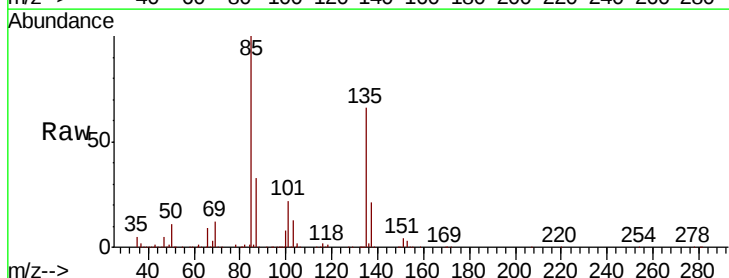
Acq: 30 Jul 2019 17:45

Tgt Ion: 85 Resp: 2217949

Ion Ratio Lower Upper

85 100

135 67.2 54.1 81.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

2000000

1500000

1000000

500000

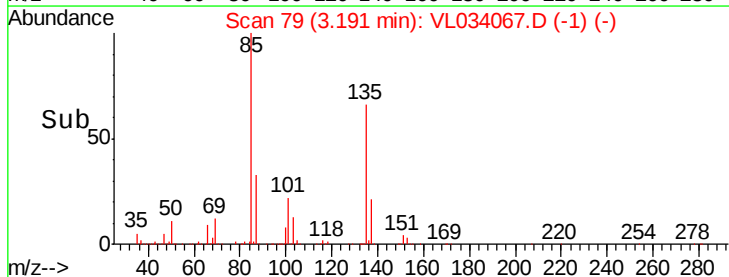
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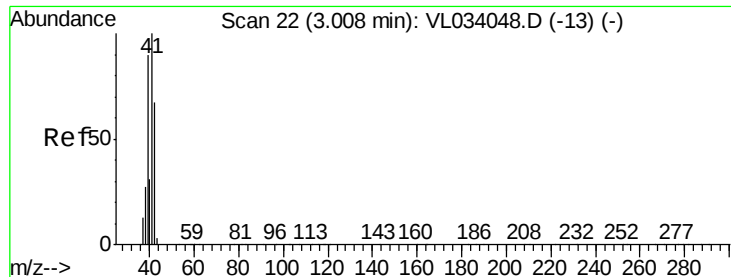
Time-->

3.15

3.20

3.25





#9

Propene

Concen: 11.969 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

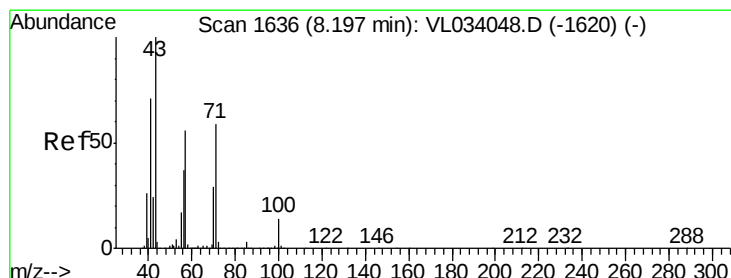
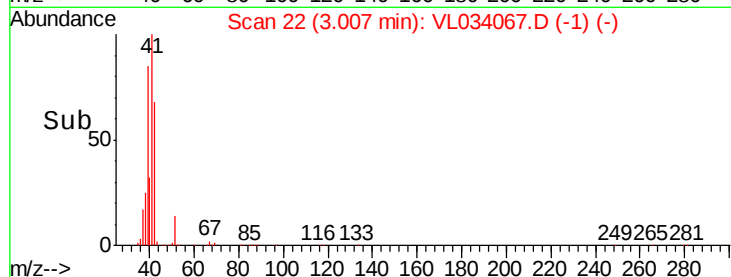
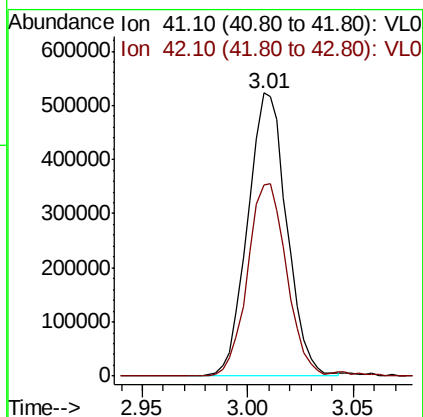
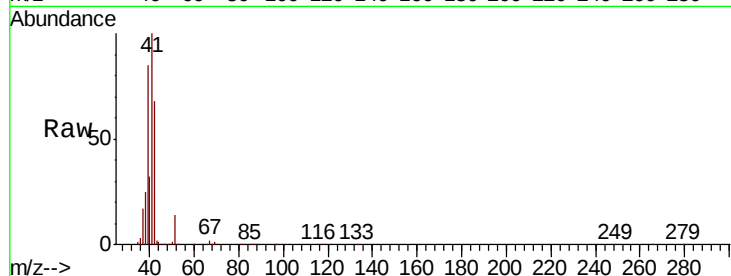
ClientSampleId :

Tot Ion: 41 Resp: 674270

Ion Ratio Lower Upper

41 100

42 68.8 55.4 83.2



#10

Heptane

Concen: 14.709 ppbv

RT: 8.20 min Scan# 1636

Delta R.T. -0.00 min

Lab File: VL034067.D

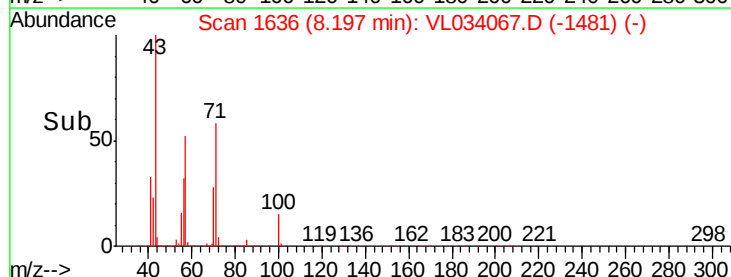
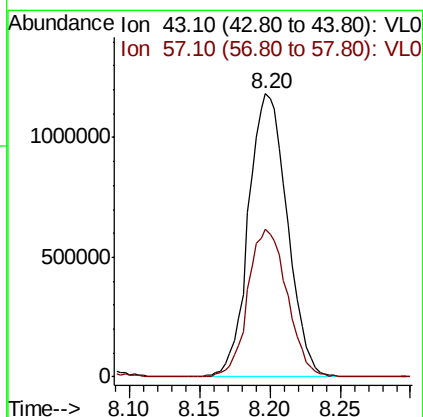
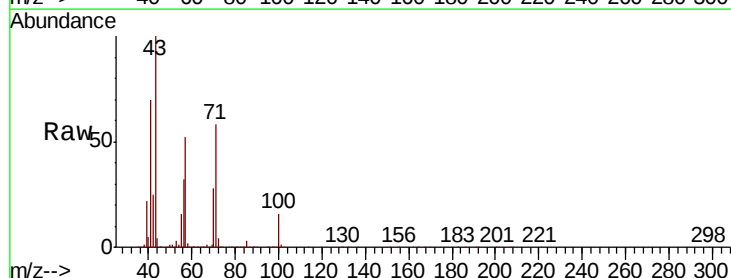
Acq: 30 Jul 2019 17:45

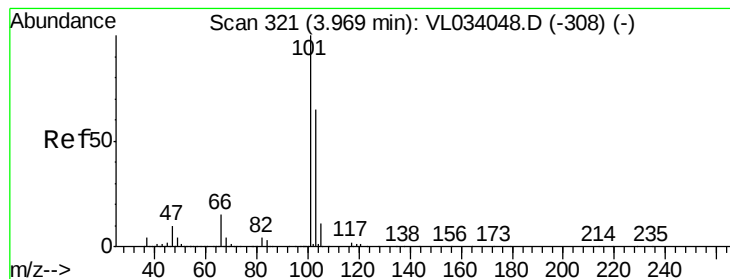
Tgt Ion: 43 Resp: 2260129

Ion Ratio Lower Upper

43 100

57 53.0 44.8 67.2





#11

Trichlorofluoromethane

Concen: 8.618 ppbv

RT: 3.97 min Scan# 321

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

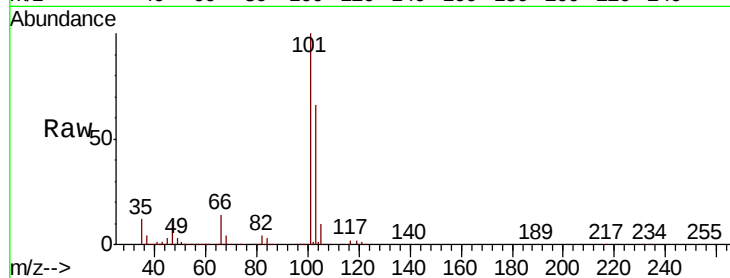
ClientSampleId :

Tot Ion:101 Resp: 2502913

Ion Ratio Lower Upper

101 100

103 65.8 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1500000

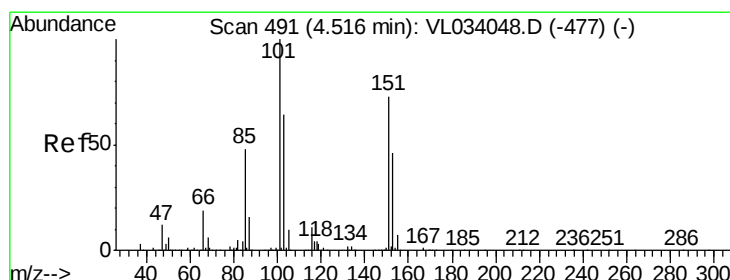
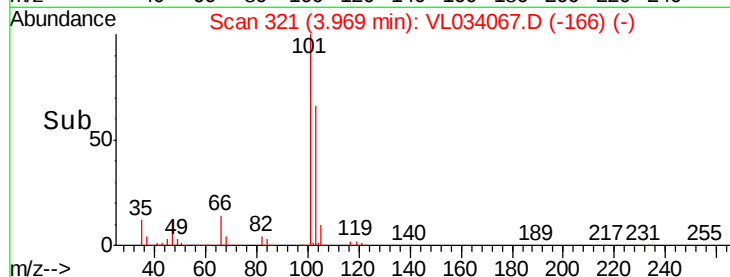
1000000

500000

0

3.90 3.95 4.00

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 12.032 ppbv

RT: 4.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: VL034067.D

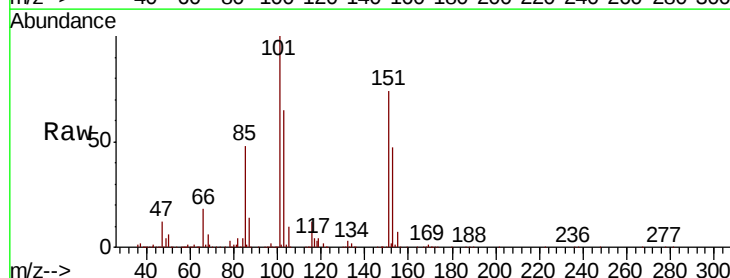
Acq: 30 Jul 2019 17:45

Tgt Ion:101 Resp: 2350419

Ion Ratio Lower Upper

101 100

151 72.5 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

1500000

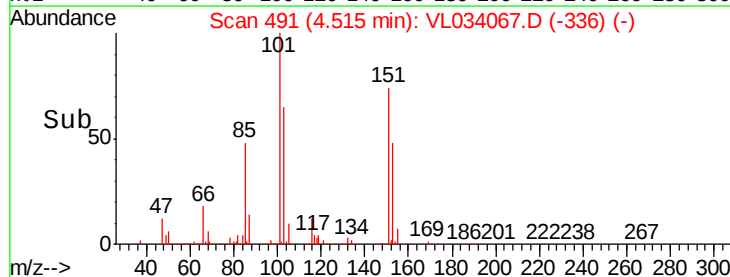
1000000

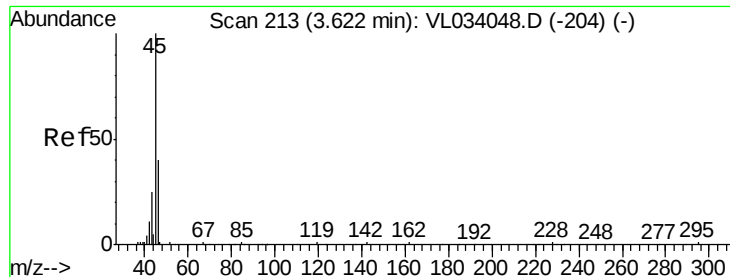
500000

0

4.45 4.50 4.55

Time-->





#13

Ethanol

Concen: 6.738 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

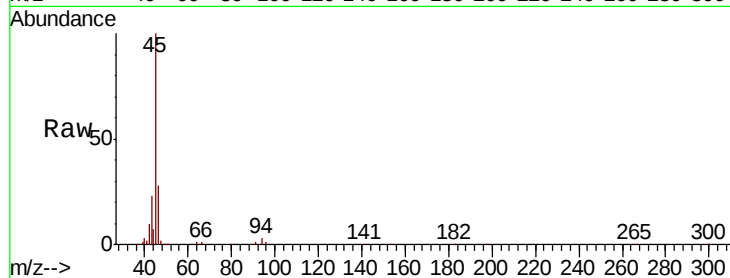
ClientSampleId :

Tot Ion: 45 Resp: 151085

Ion Ratio Lower Upper

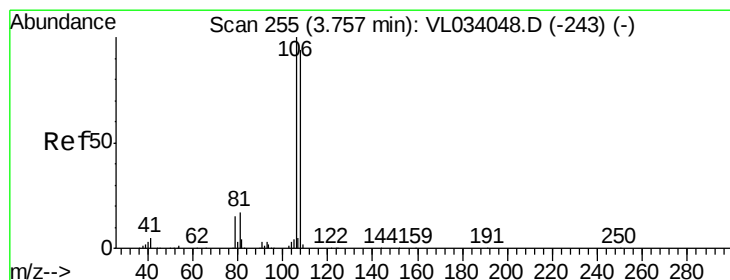
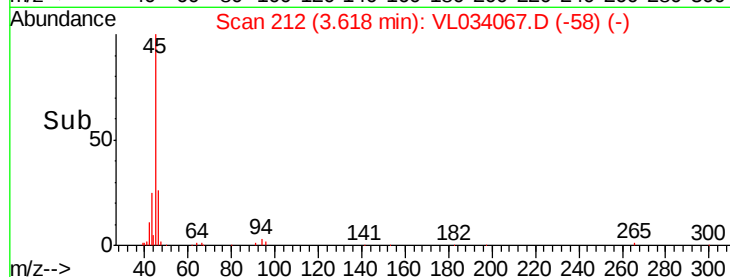
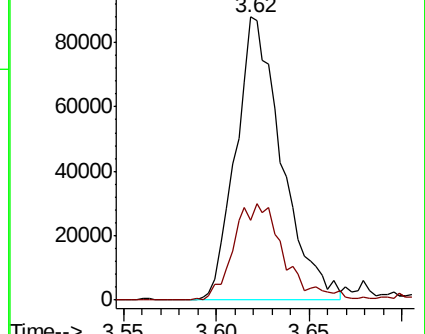
45 100

46 37.4 15.6 62.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 9.158 ppbv

RT: 3.75 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

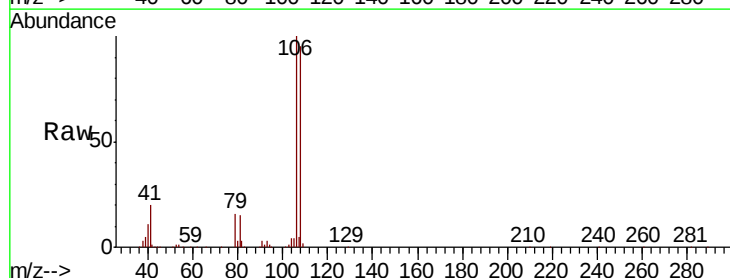
Tgt Ion: 108 Resp: 755437

Ion Ratio Lower Upper

108 100

106 105.4 86.2 129.2

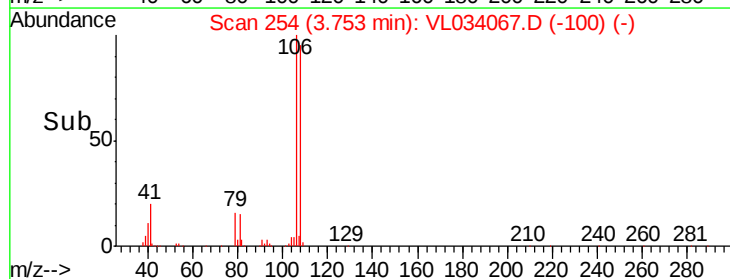
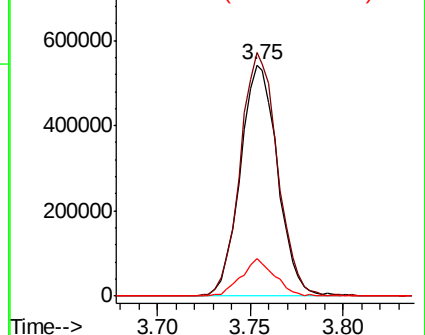
79 14.8 13.7 20.5

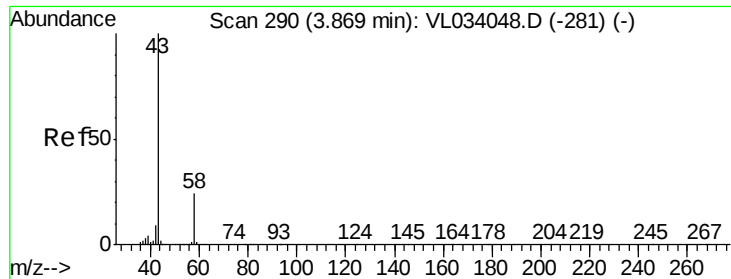


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 7.863 ppbv

RT: 3.87 min Scan# 290

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

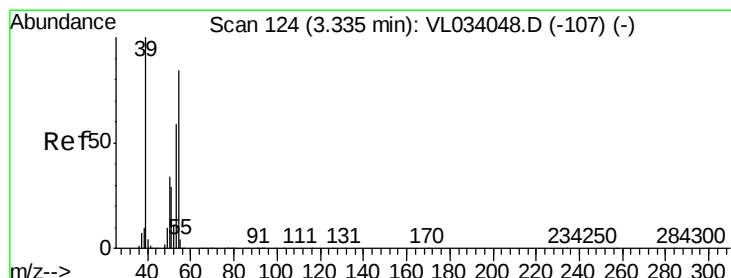
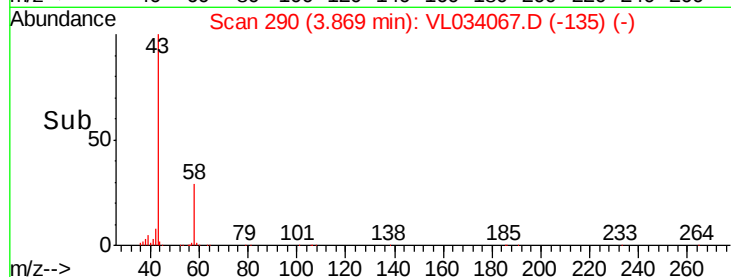
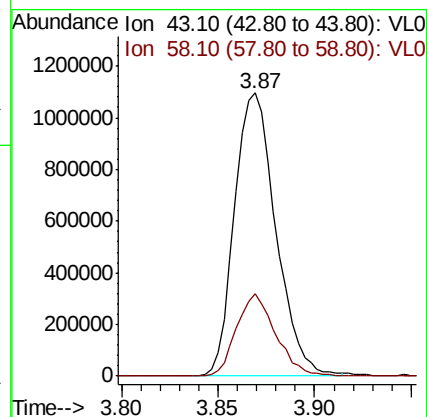
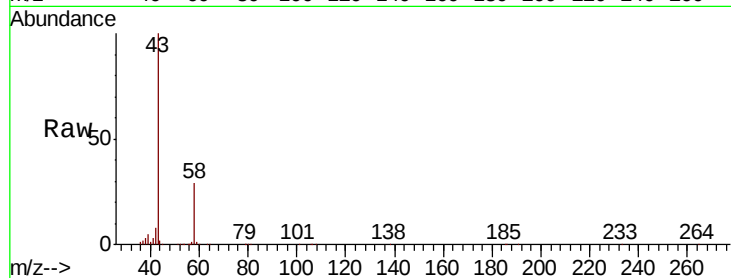
ClientSampleId :

Tot Ion: 43 Resp: 1625273

Ion Ratio Lower Upper

43 100

58 27.8 21.6 32.4



#16

1,3-Butadiene

Concen: 10.129 ppbv

RT: 3.33 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL034067.D

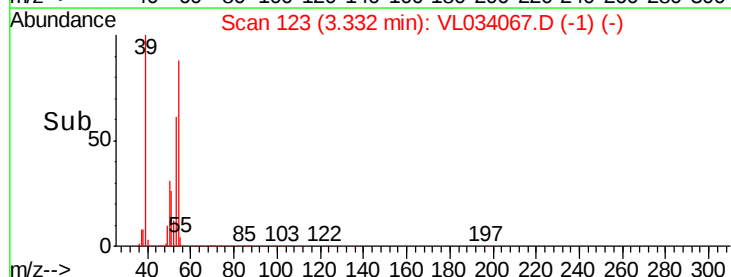
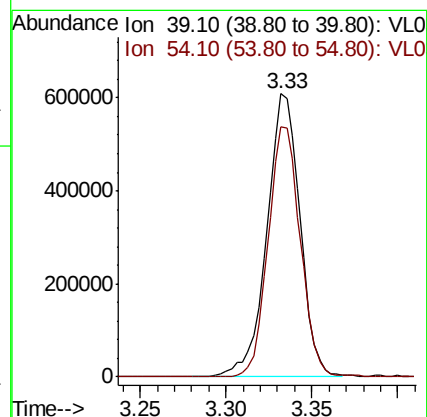
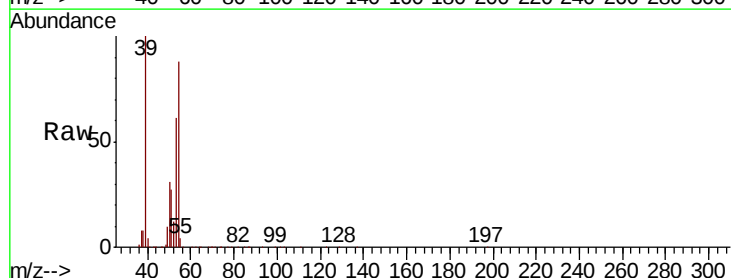
Acq: 30 Jul 2019 17:45

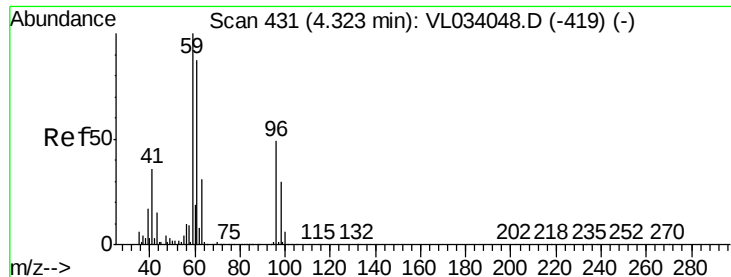
Tgt Ion: 39 Resp: 812995

Ion Ratio Lower Upper

39 100

54 86.1 68.9 103.3



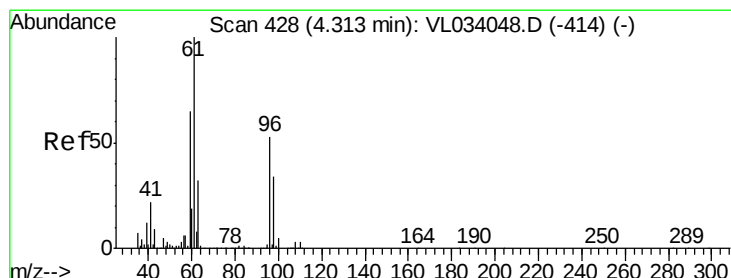
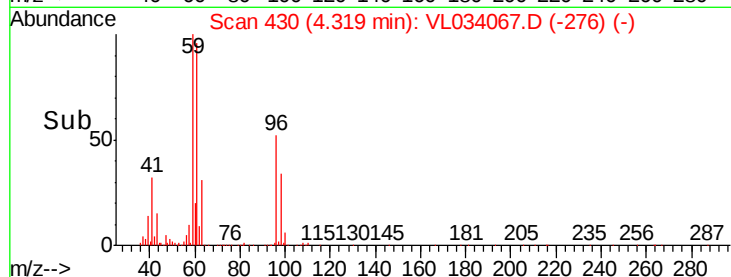
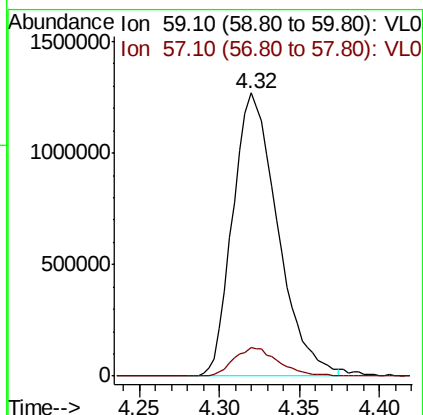
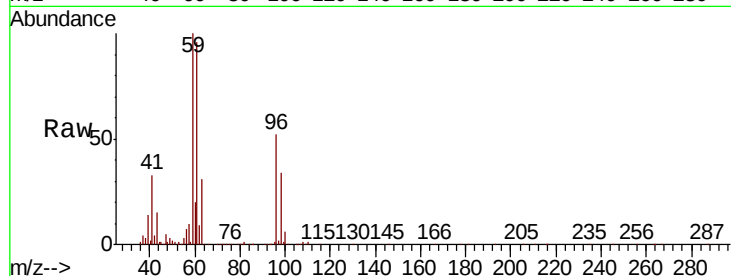


#17

tert-Butyl alcohol
 Concen: 14.302 ppbv
 RT: 4.32 min Scan# 430
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Instrument :
 MSVOA_L
 ClientSampleID :

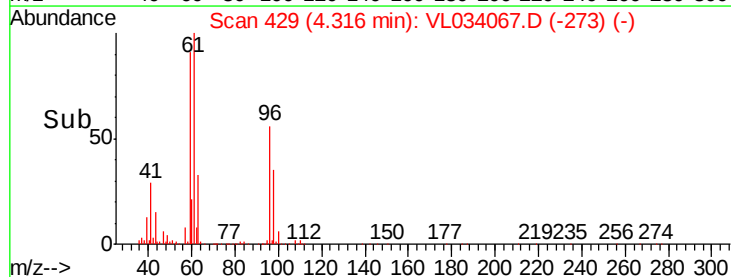
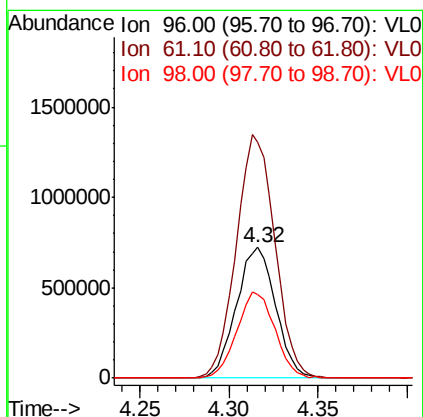
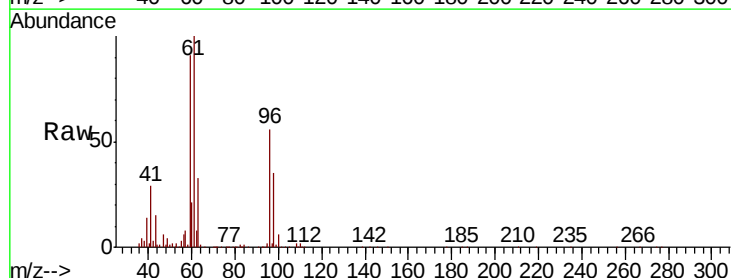
Tot Ion: 59 Resp: 2430518
 Ion Ratio Lower Upper
 59 100
 57 10.2 8.2 12.4

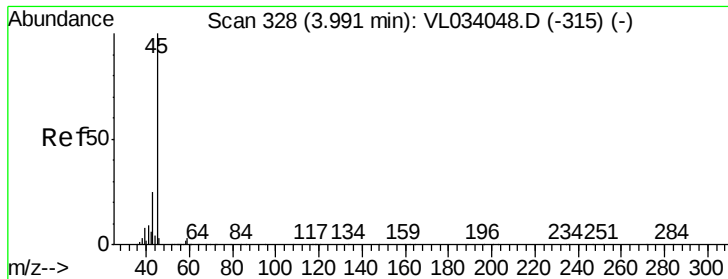


#18

1,1-Dichloroethene
 Concen: 12.528 ppbv
 RT: 4.32 min Scan# 429
 Delta R.T. 0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Tgt Ion: 96 Resp: 1108687
 Ion Ratio Lower Upper
 96 100
 61 180.0 151.5 227.3
 98 63.9 52.2 78.2





#19

Isopropyl Alcohol

Concen: 13.710 ppbv

RT: 3.99 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

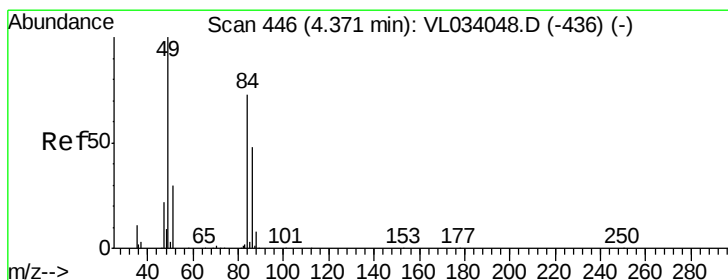
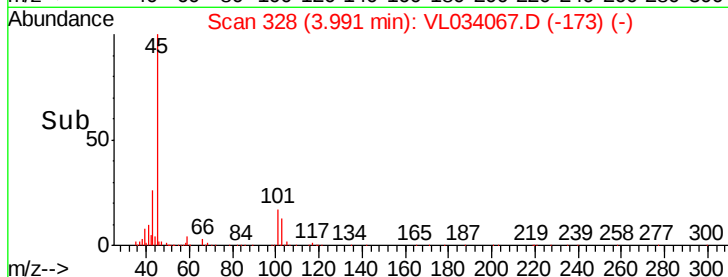
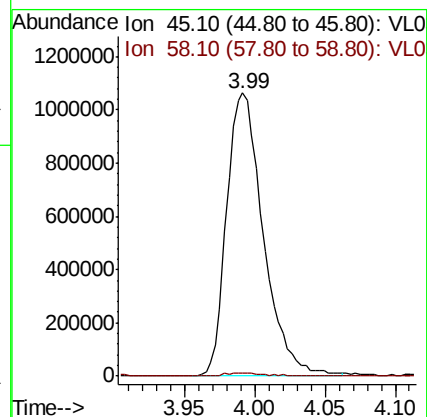
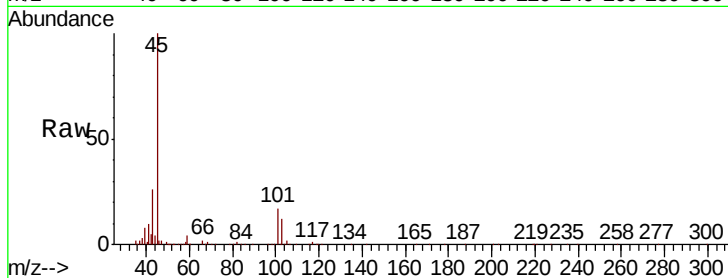
ClientSampleId :

Tot Ion: 45 Resp: 1935219

Ion Ratio Lower Upper

45 100

58 1.5 1.8 2.6#



#20

Methylene Chloride

Concen: 12.259 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Tgt Ion: 84 Resp: 969064

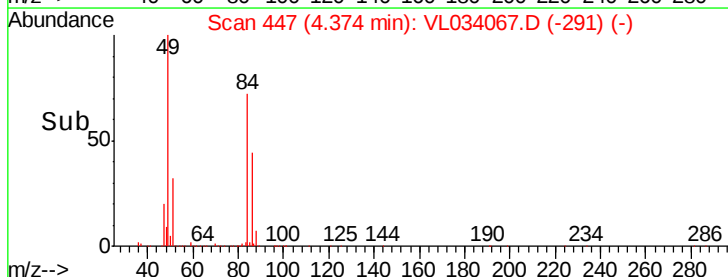
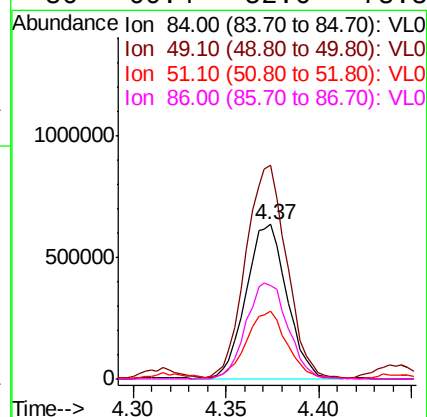
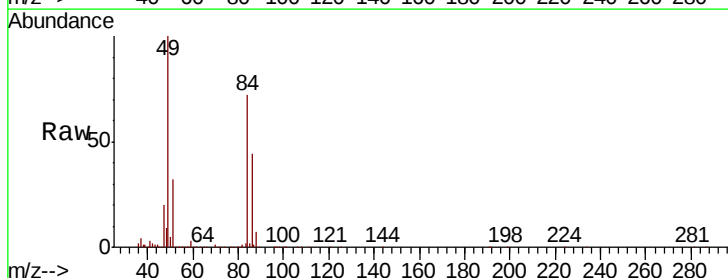
Ion Ratio Lower Upper

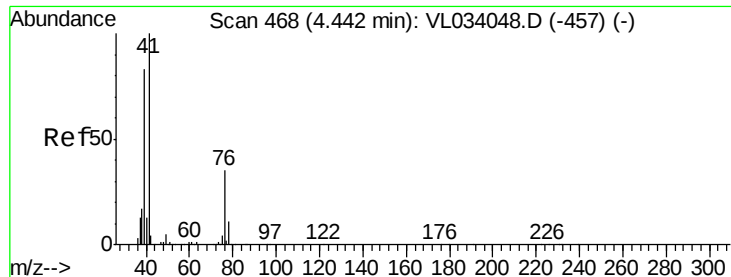
84 100

49 137.9 109.6 164.4

51 43.5 33.4 50.2

86 60.4 52.6 78.8





#21

Allvl Chloride

Concen: 13.611 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.00 min

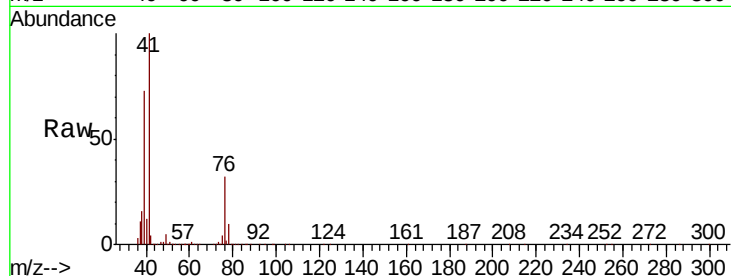
Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 1775400

Ion	Ratio	Lower	Upper
41	100		
76	30.8	26.1	39.1
39	76.0	65.0	97.6

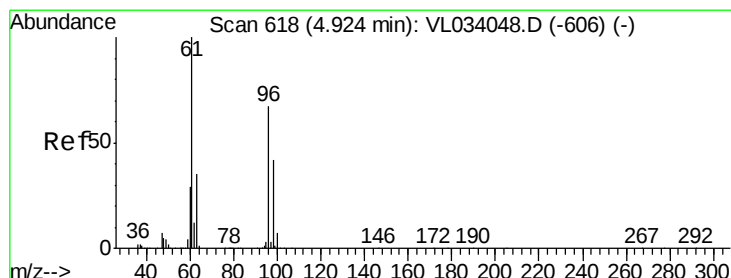
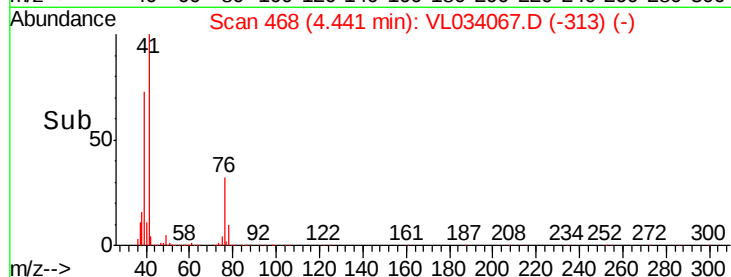
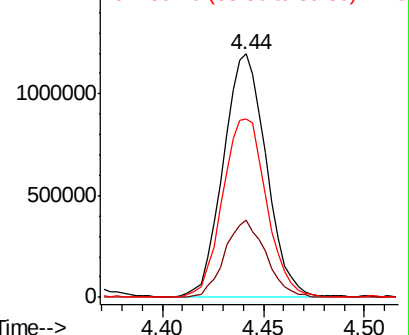


Abundance

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: 8.378 ppbv

RT: 4.92 min Scan# 618

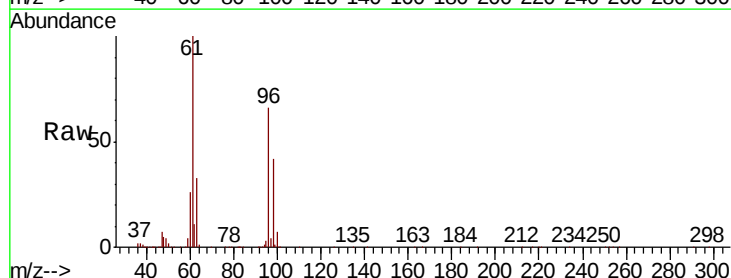
Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Tgt Ion: 96 Resp: 768153

Ion	Ratio	Lower	Upper
96	100		
61	152.5	118.6	177.8
98	64.3	49.7	74.5

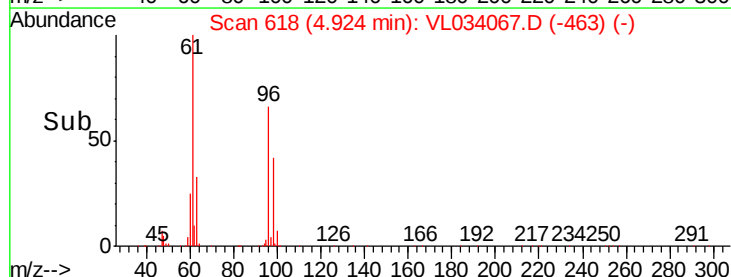
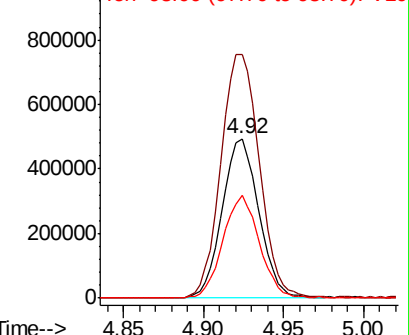


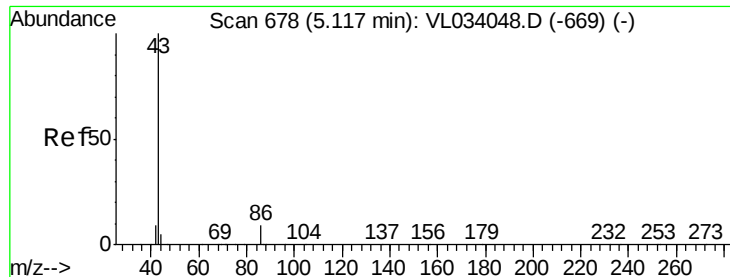
Abundance

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: 11.502 ppbv

RT: 5.12 min Scan# 678

Delta R.T. -0.00 min

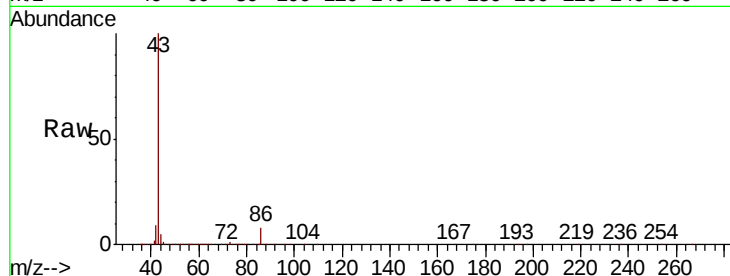
Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

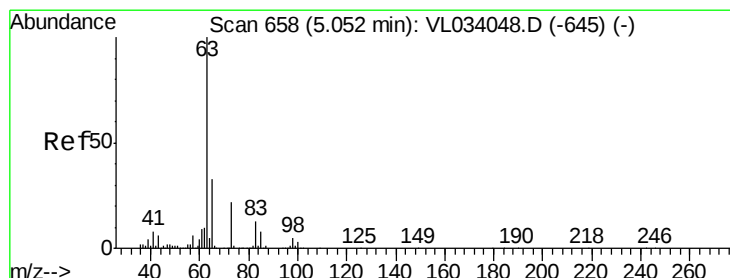
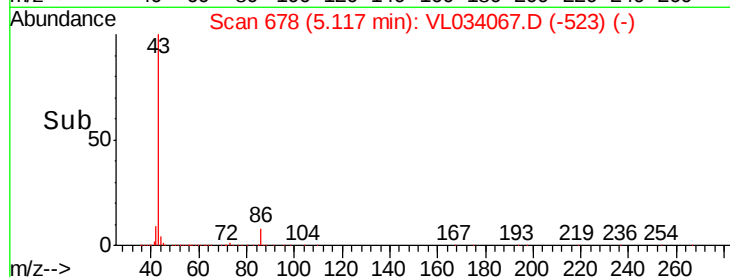
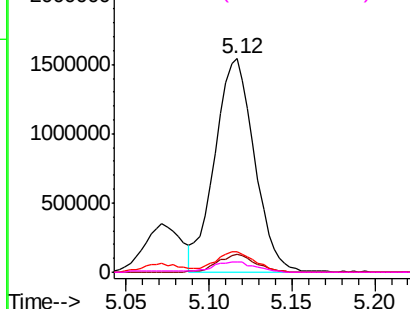
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2545721

Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.5	9.7
42	9.4	8.3	12.5
44	4.8	4.0	6.0



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: 9.120 ppbv

RT: 5.05 min Scan# 658

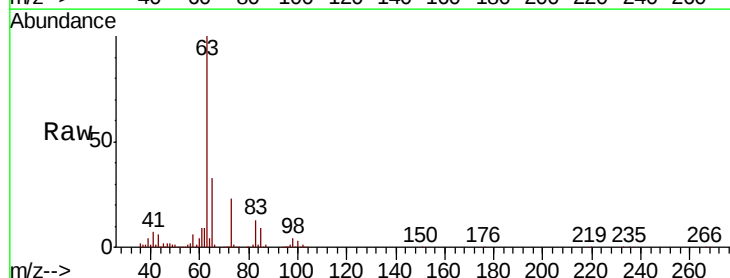
Delta R.T. -0.00 min

Lab File: VL034067.D

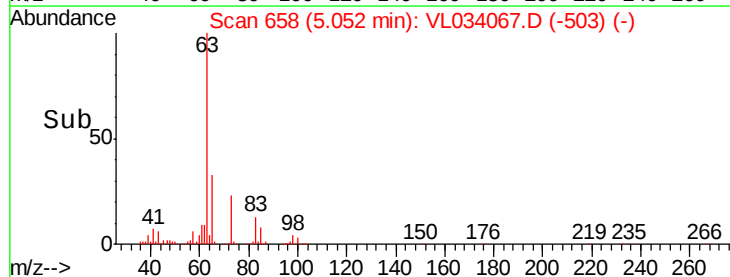
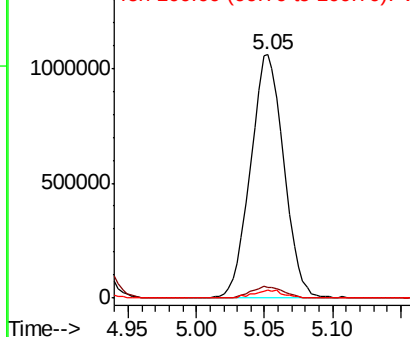
Acq: 30 Jul 2019 17:45

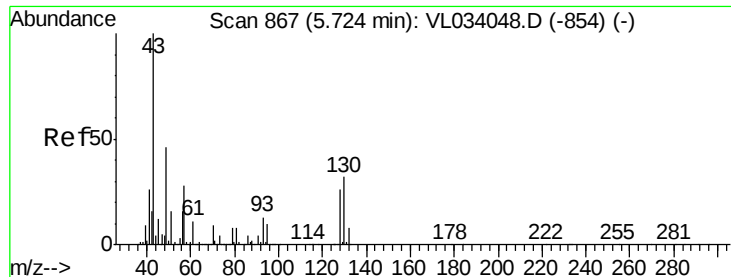
Tgt Ion: 63 Resp: 1793194

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.4	7.2
100	3.2	1.3	3.9



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



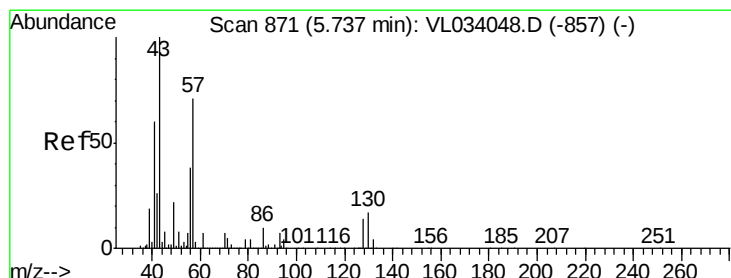
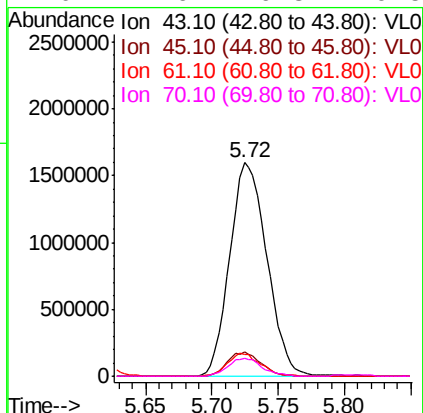
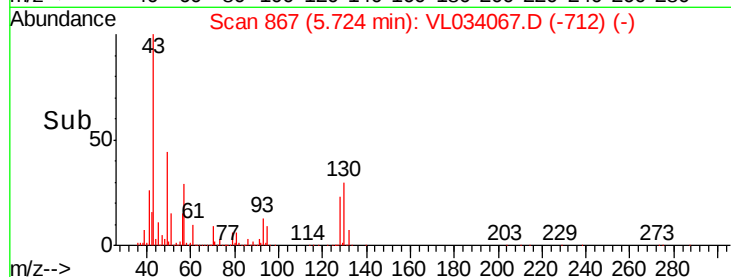
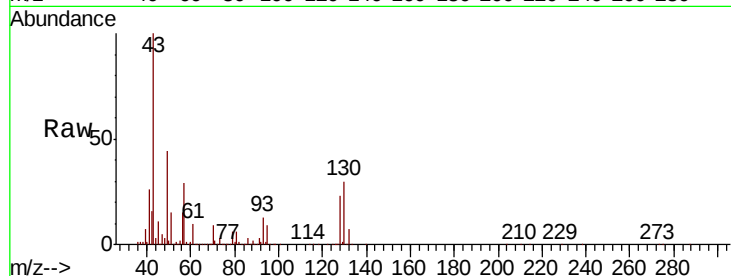


#25
Ethyl Acetate
Concen: 10.134 ppbv
RT: 5.72 min Scan# 867
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 3113703

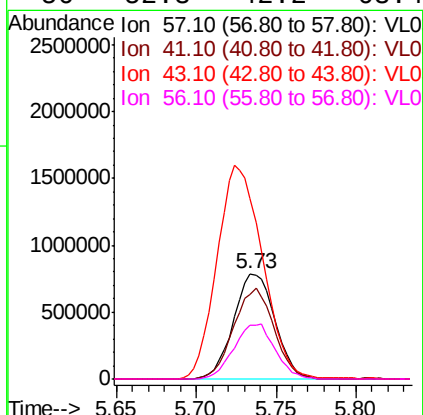
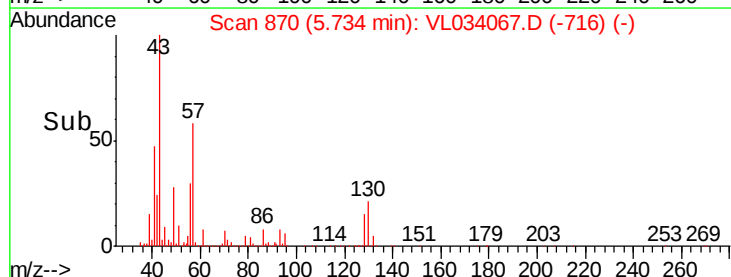
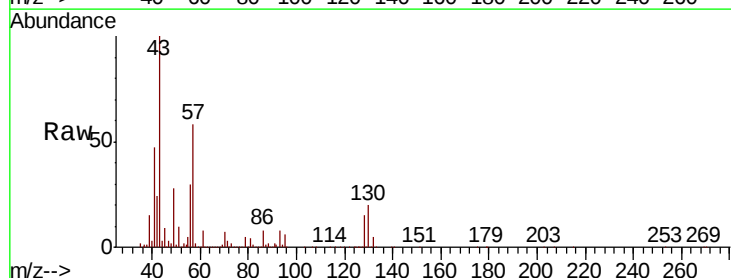
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.1	12.1
61	9.7	8.1	12.1
70	7.6	6.3	9.5

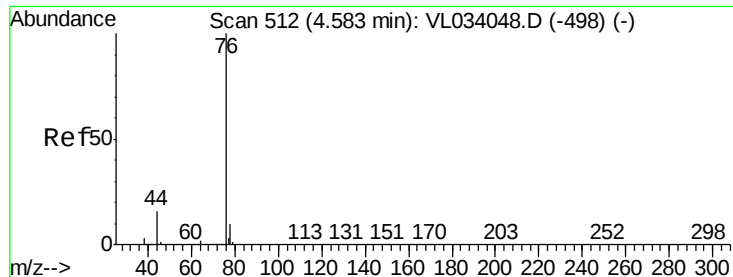


#26
Hexane
Concen: 9.894 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Tgt Ion: 57 Resp: 1375006

Ion	Ratio	Lower	Upper
57	100		
41	85.1	69.0	103.6
43	227.4	176.6	264.8
56	52.3	42.2	63.4





#27

Carbon Disulfide

Concen: 13.186 ppbv

RT: 4.58 min Scan# 512

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

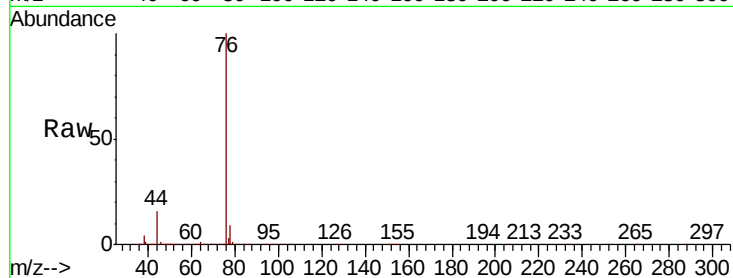
Tot Ion: 76 Resp: 2853713

Ion Ratio Lower Upper

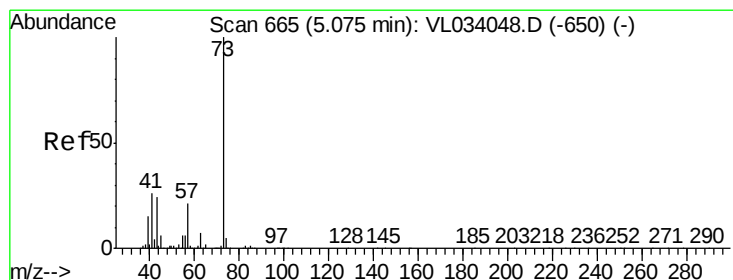
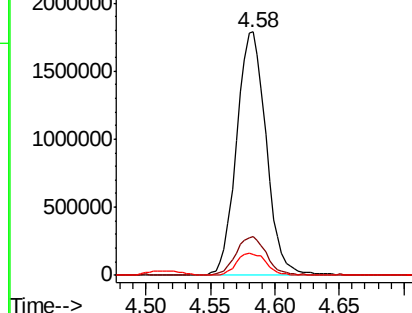
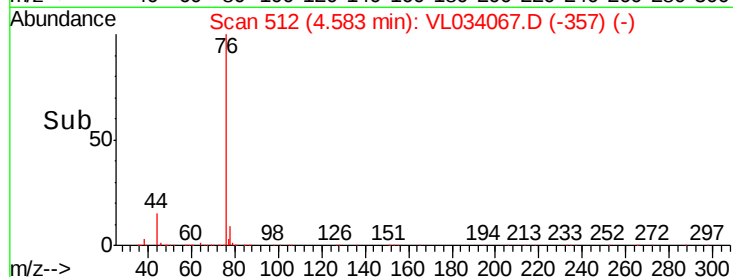
76 100

44 16.2 13.0 19.4

78 9.3 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: 10.369 ppbv

RT: 5.07 min Scan# 664

Delta R.T. -0.00 min

Lab File: VL034067.D

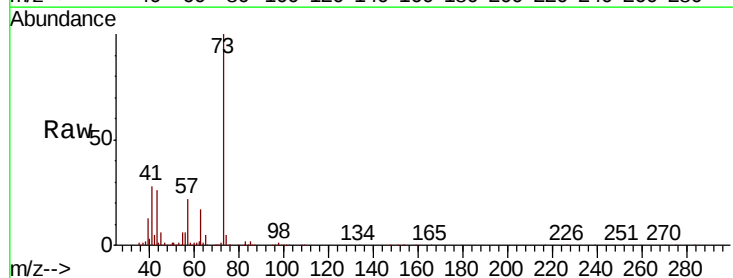
Acq: 30 Jul 2019 17:45

Tgt Ion: 73 Resp: 2452752

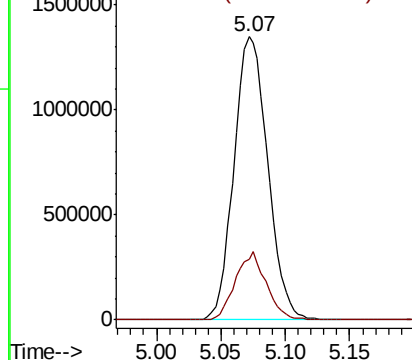
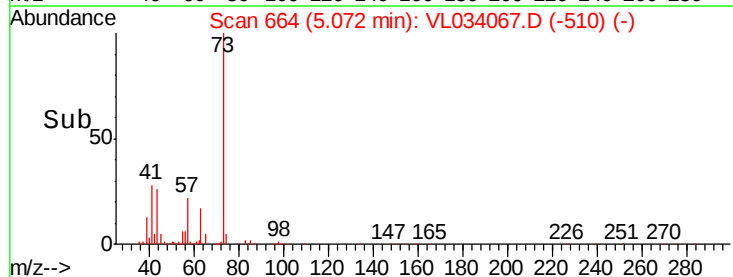
Ion Ratio Lower Upper

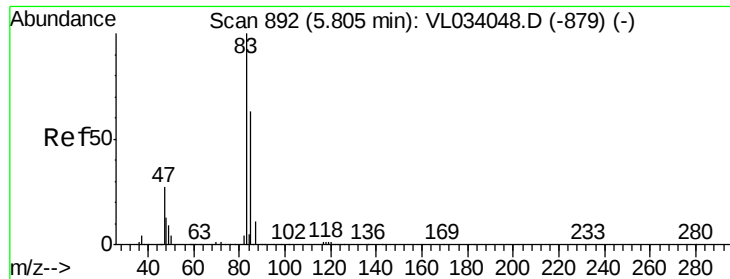
73 100

57 22.1 17.2 25.8



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

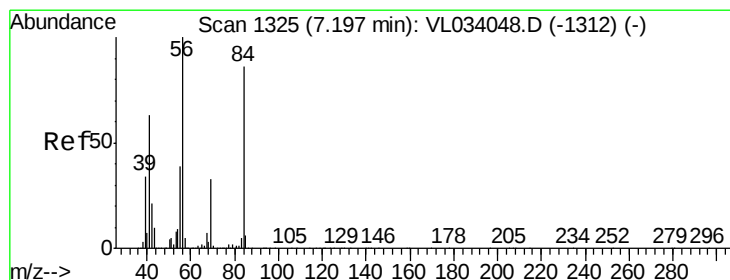
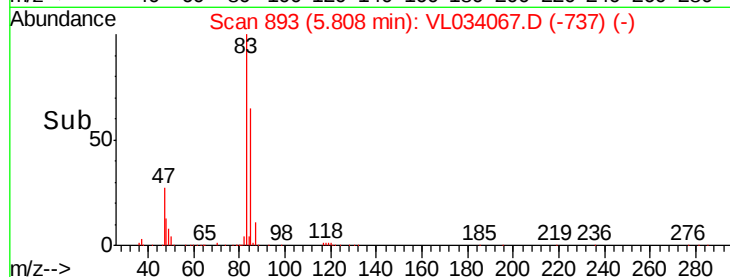
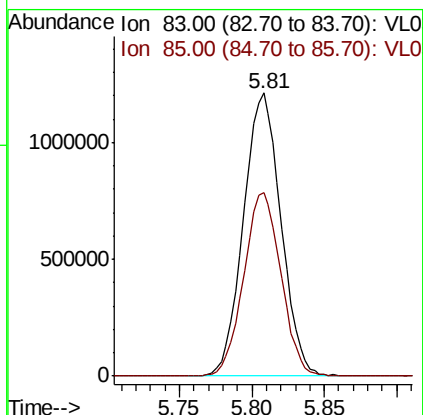
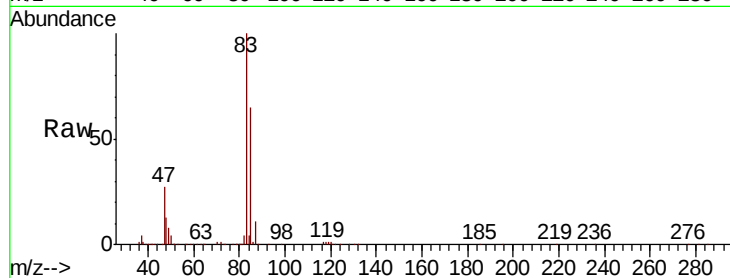




#29
Chloroform
Concen: 8.608 ppbv
RT: 5.81 min Scan# 893
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

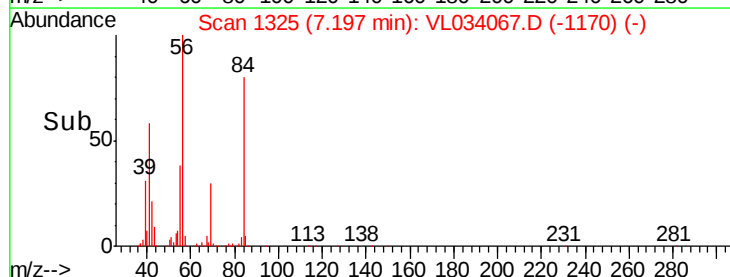
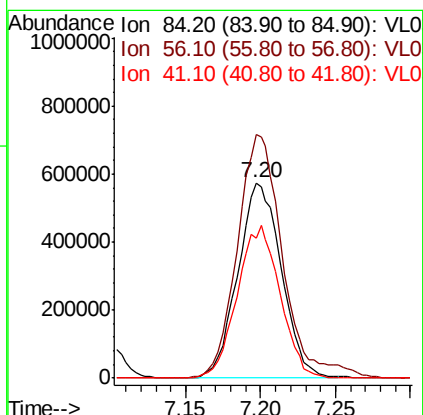
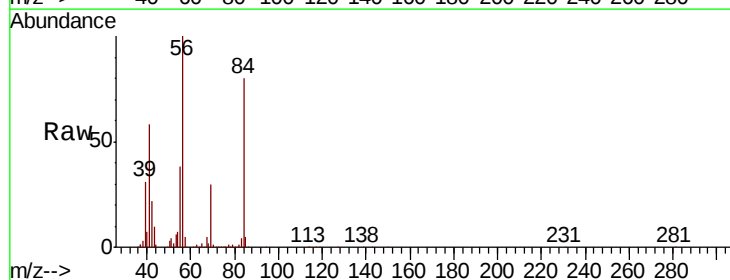
Instrument :
MSVOA_L
ClientSampleId :

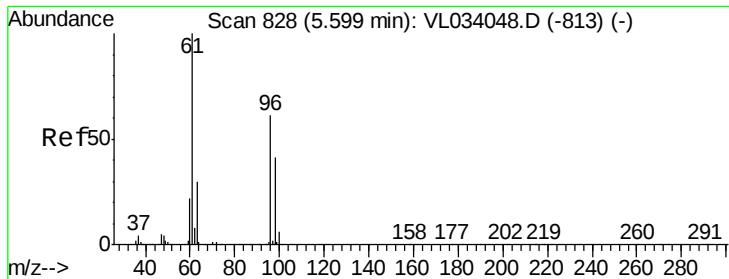
Tot Ion: 83 Resp: 2184988
Ion Ratio Lower Upper
83 100
85 64.9 50.2 75.4



#30
Cyclohexane
Concen: 8.186 ppbv
RT: 7.20 min Scan# 1325
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Tgt Ion: 84 Resp: 1155960
Ion Ratio Lower Upper
84 100
56 131.0 101.7 152.5
41 77.2 59.4 89.0



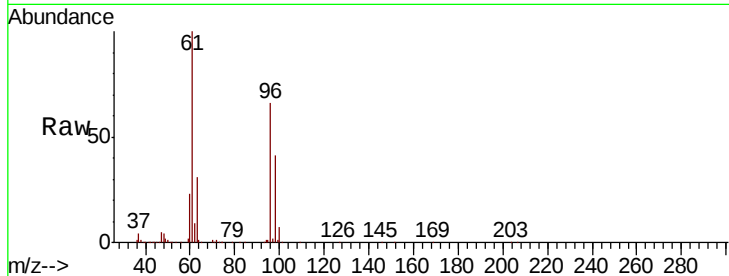


#31

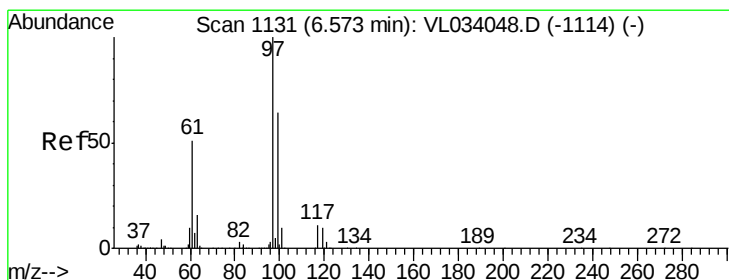
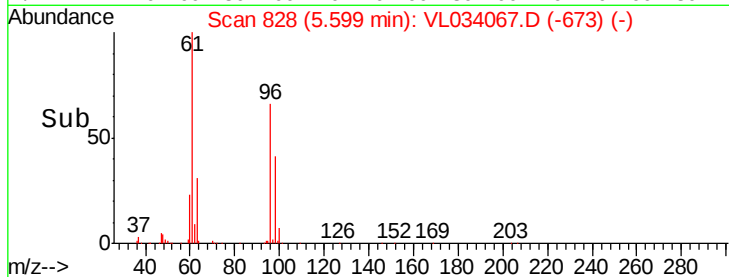
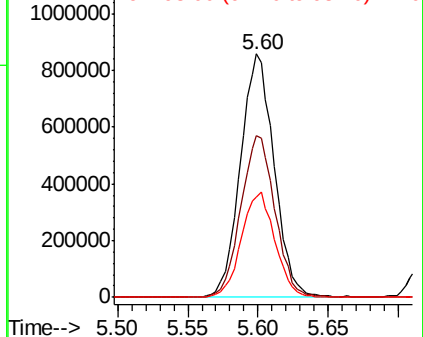
cis-1,2-Dichloroethene
 Concen: 10.596 ppbv
 RT: 5.60 min Scan# 828
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 61 Resp: 1435276
 Ion Ratio Lower Upper
 61 100
 96 66.3 49.1 73.7
 98 41.1 32.5 48.7



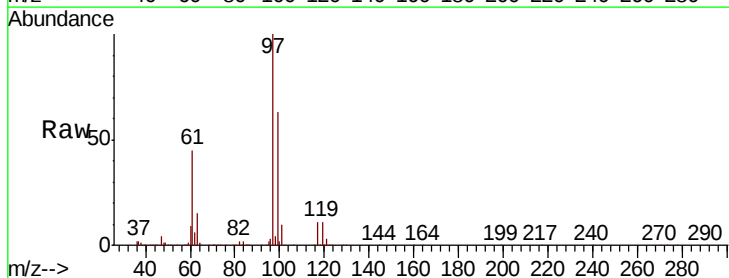
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



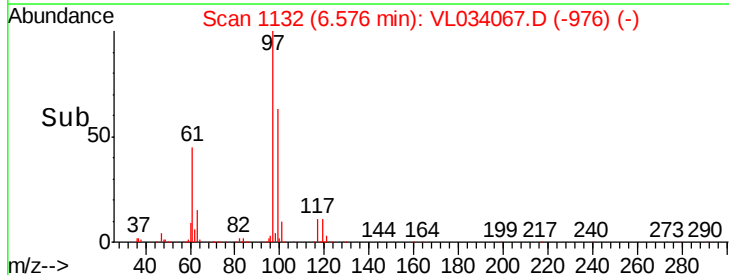
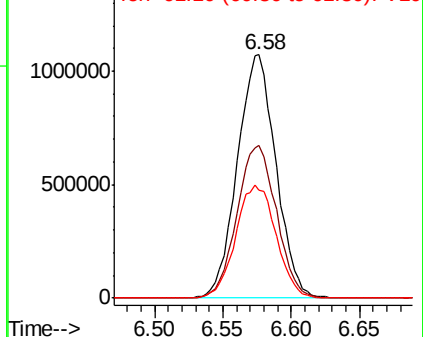
#32

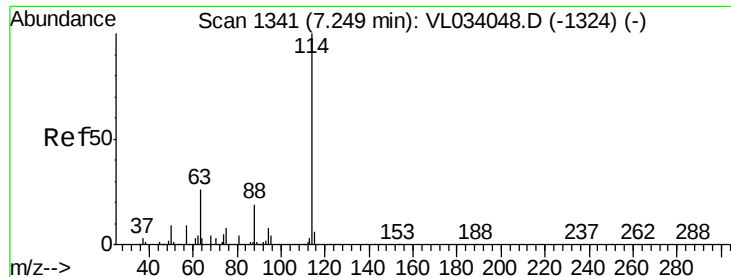
1,1,1-Trichloroethane
 Concen: 7.885 ppbv
 RT: 6.58 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Tgt Ion: 97 Resp: 2100832
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.0 76.6
 61 48.8 39.5 59.3



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

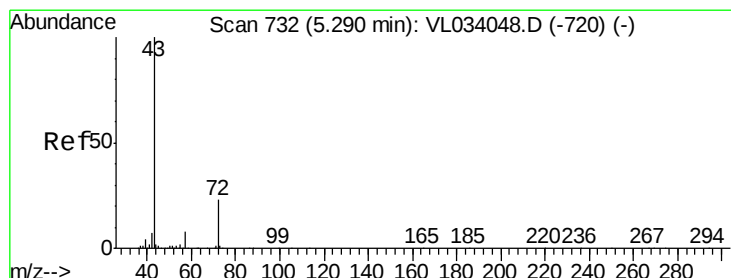
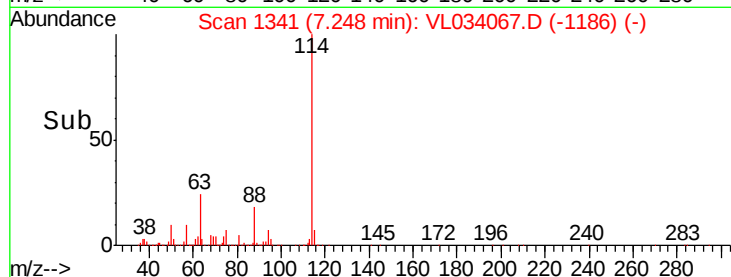
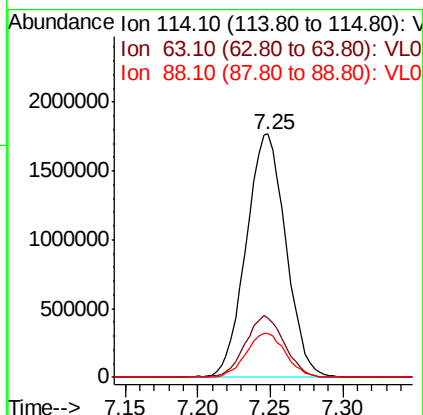
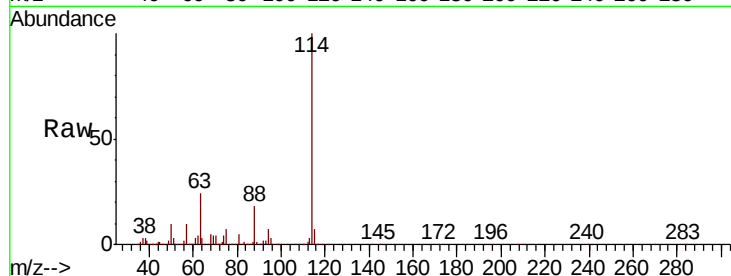




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

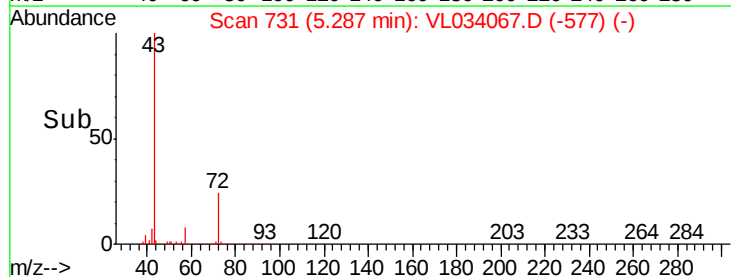
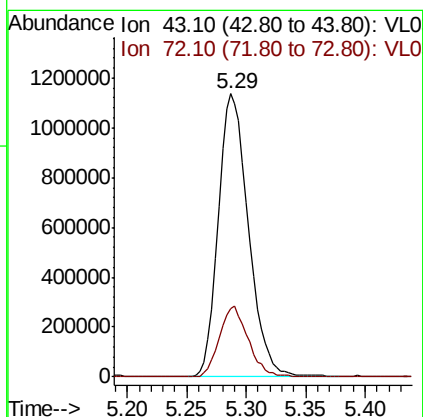
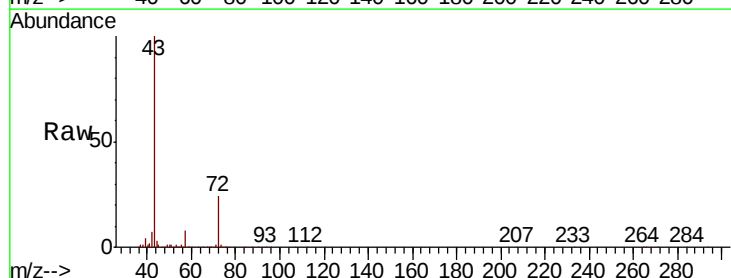
Instrument :
 MSVOA_L
 ClientSampleId :

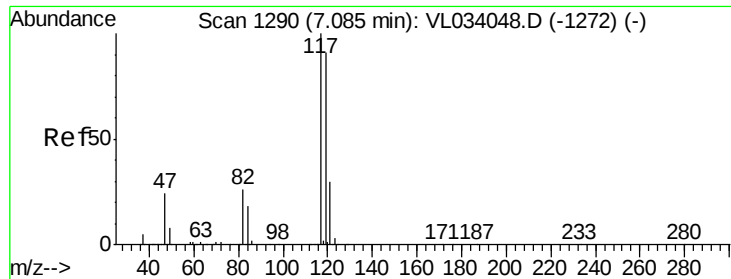
Tot Ion:114 Resp: 3369254
 Ion Ratio Lower Upper
 114 100
 63 25.1 21.0 31.6
 88 18.2 14.7 22.1



#34
 2-Butanone
 Concen: 14.331 ppbv
 RT: 5.29 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Tgt Ion: 43 Resp: 1987139
 Ion Ratio Lower Upper
 43 100
 72 24.1 20.2 30.4

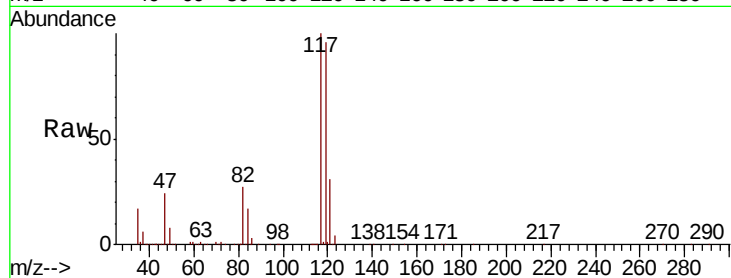




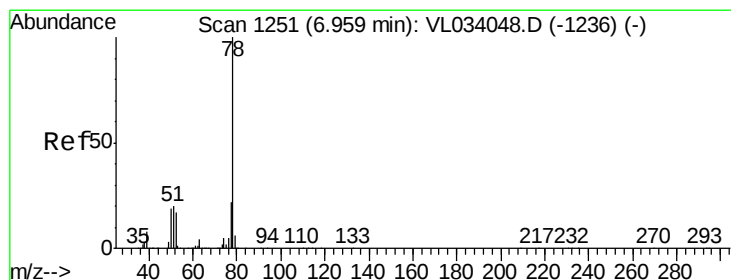
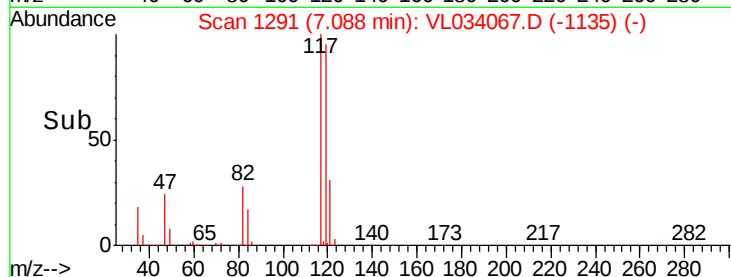
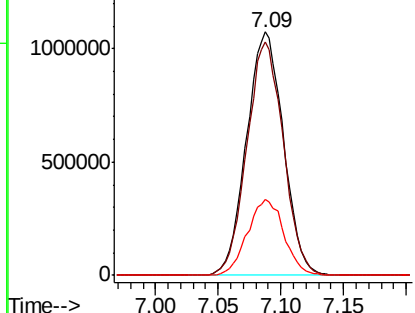
#35
Carbon Tetrachloride
Concen: 9.230 ppbv
RT: 7.09 min Scan# 1291
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2194716
Ion Ratio Lower Upper
117 100
119 96.0 73.2 109.8
121 31.1 24.0 36.0

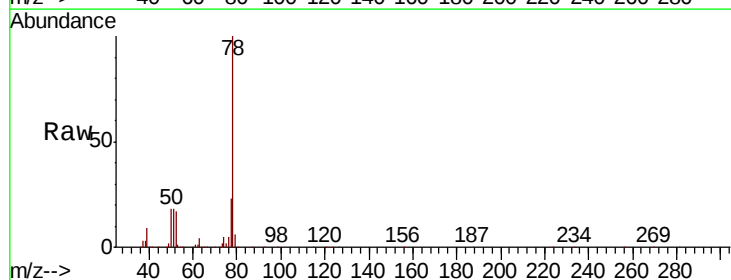


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

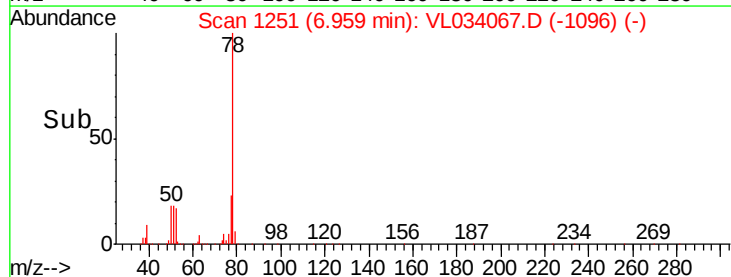
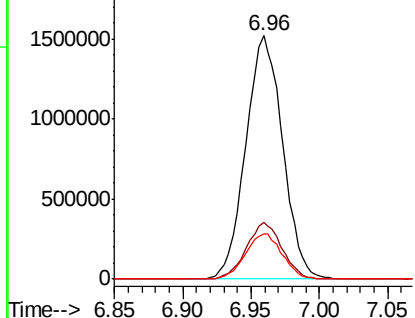


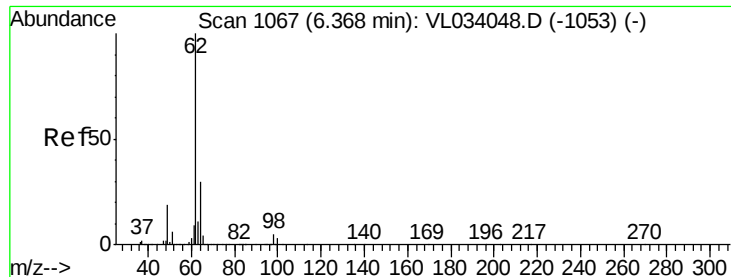
#36
Benzene
Concen: 12.692 ppbv
RT: 6.96 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Tgt Ion: 78 Resp: 2846670
Ion Ratio Lower Upper
78 100
77 23.3 17.9 26.9
50 18.3 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: 10.452 ppbv

RT: 6.37 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

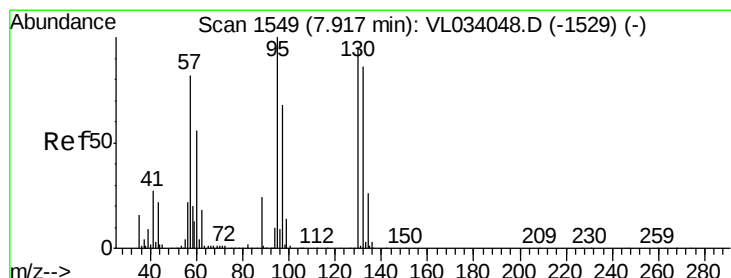
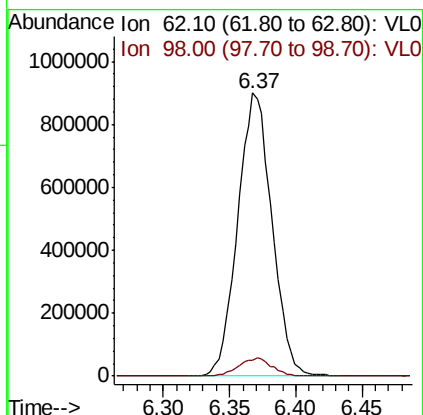
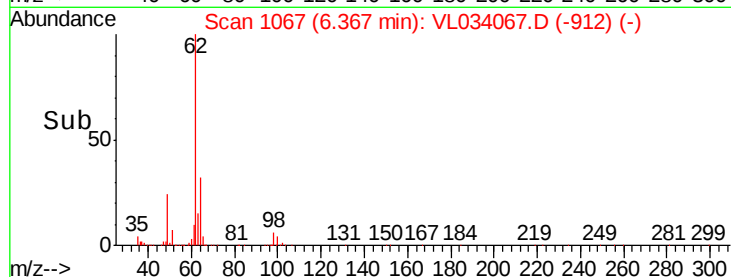
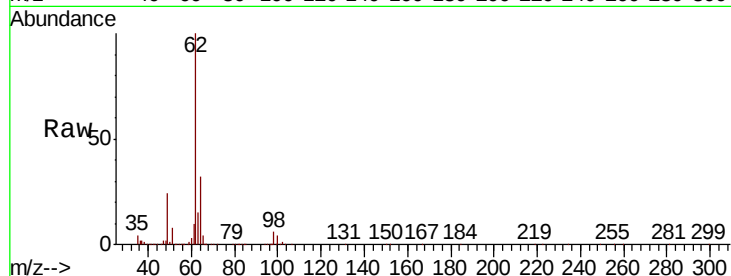
ClientSampleId :

Tot Ion: 62 Resp: 1610929

Ion Ratio Lower Upper

62 100

98 6.3 4.2 6.2#



#38

Trichloroethene

Concen: 17.041 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Tgt Ion:130 Resp: 1601748

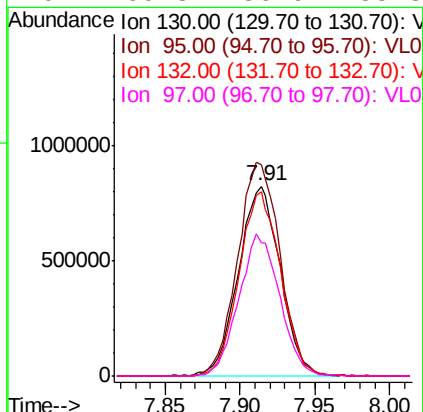
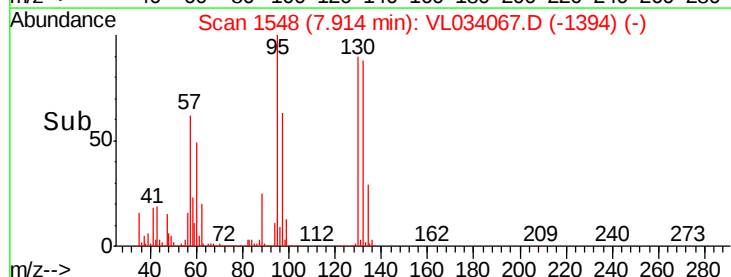
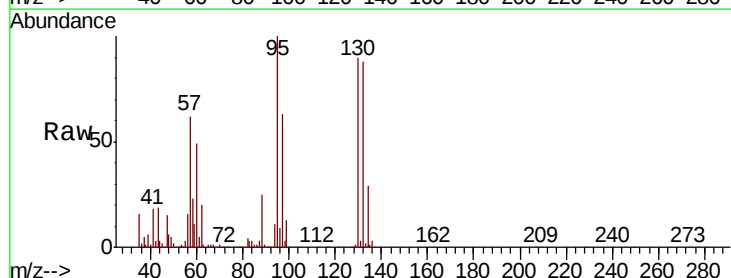
Ion Ratio Lower Upper

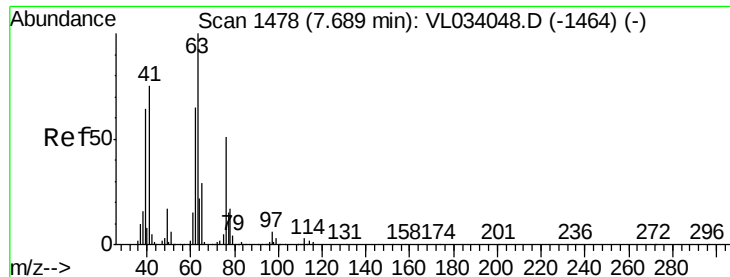
130 100

95 110.7 84.1 126.1

132 97.0 72.7 109.1

97 69.8 56.9 85.3



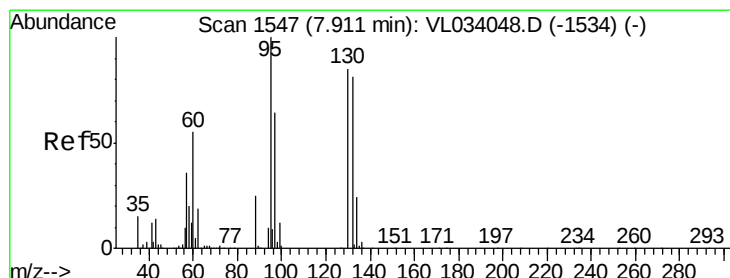
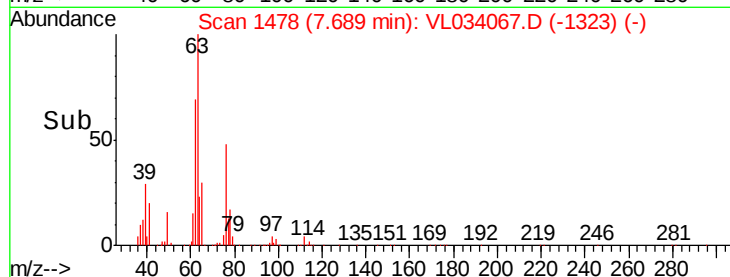
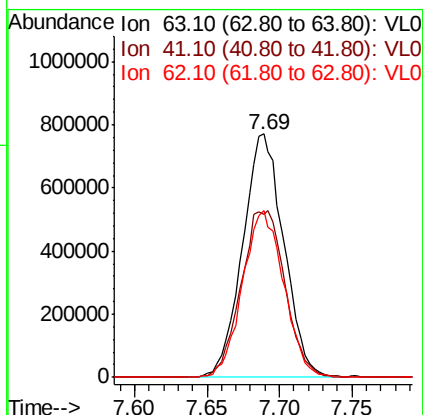
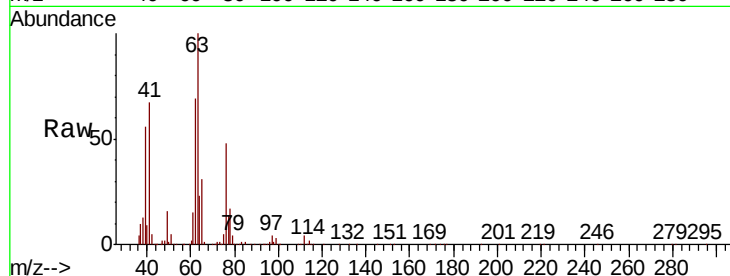


#39
 1,2-Dichloropropane
 Concen: 16.730 ppbv
 RT: 7.69 min Scan# 1478
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 63 Resp: 1522782

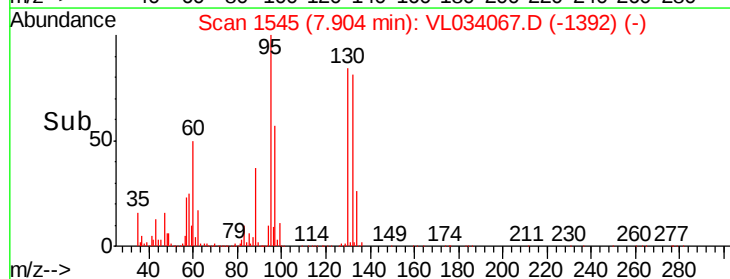
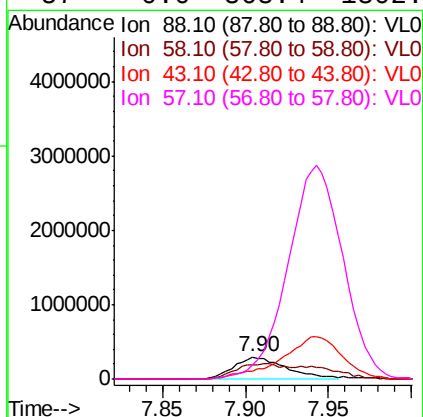
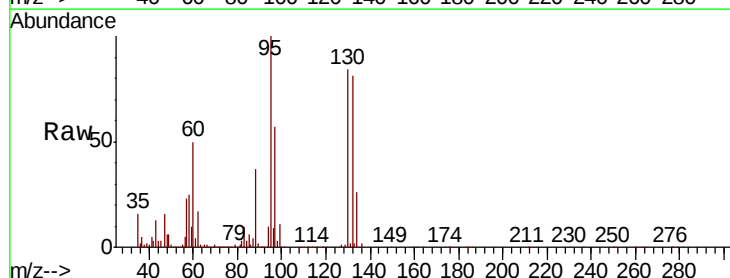
Ion	Ratio	Lower	Upper
63	100		
41	66.9	59.8	89.8
62	68.7	52.2	78.2

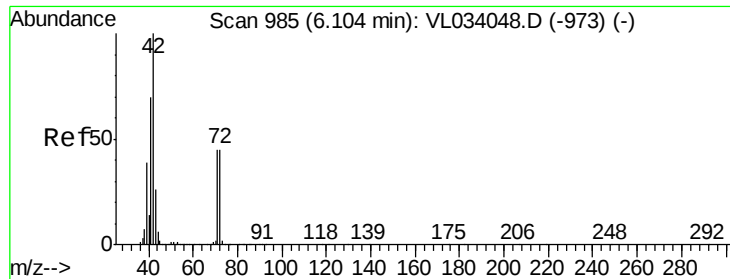


#40
 1,4-Dioxane
 Concen: 17.902 ppbv
 RT: 7.90 min Scan# 1545
 Delta R.T. -0.01 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Tgt Ion: 88 Resp: 643430

Ion	Ratio	Lower	Upper
88	100		
58	119.2	99.6	149.4
43	0.0	189.2	283.8#
57	0.0	868.4	1302.6#





#41

Tetrahydrofuran

Concen: 15.651 ppbv

RT: 6.10 min Scan# 985

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

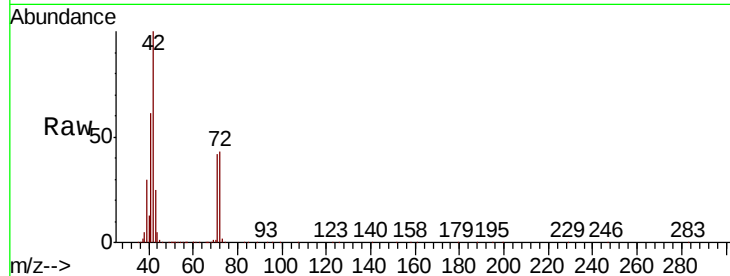
Tot Ion: 42 Resp: 1102371

Ion Ratio Lower Upper

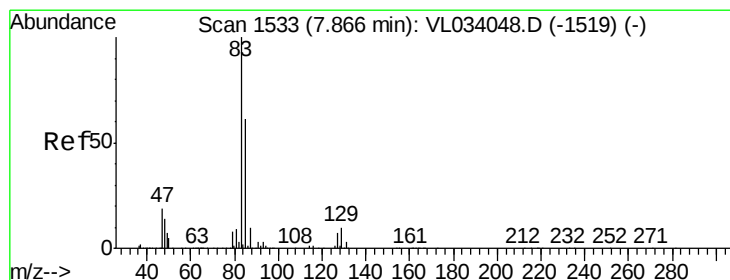
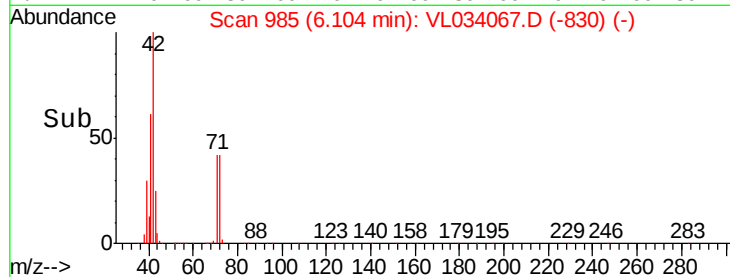
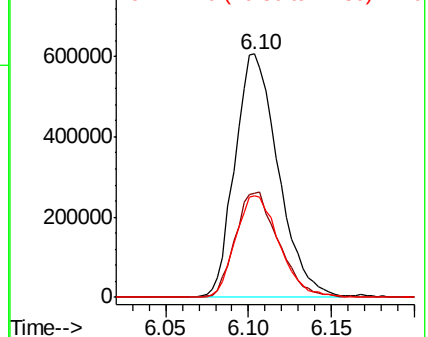
42 100

72 43.4 36.9 55.3

71 42.3 36.6 54.8



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 15.952 ppbv

RT: 7.87 min Scan# 1534

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

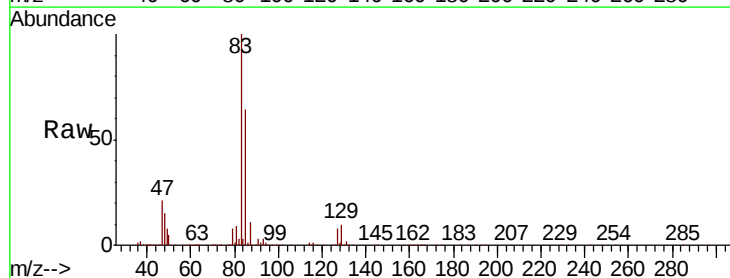
Tgt Ion: 83 Resp: 3399365

Ion Ratio Lower Upper

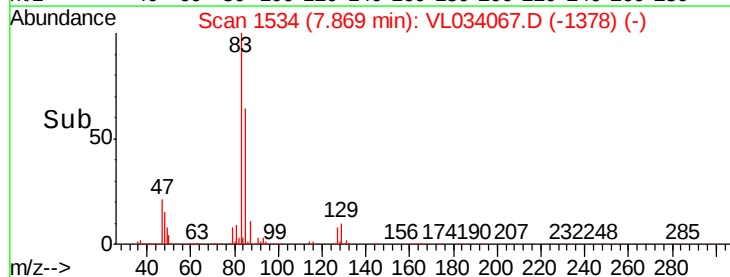
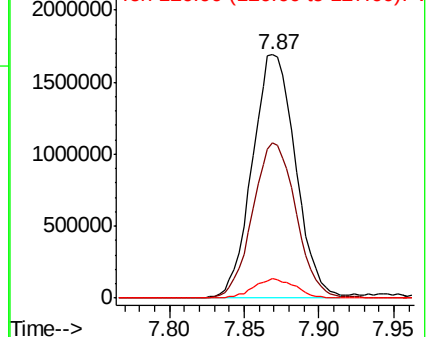
83 100

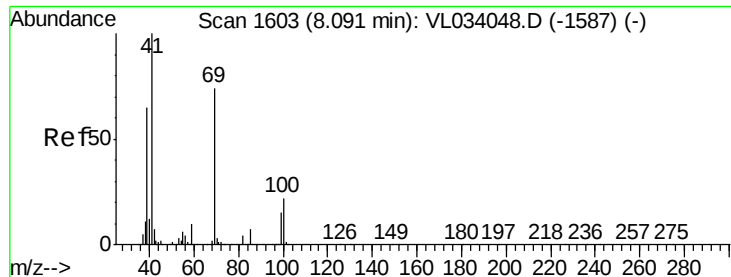
85 63.5 48.6 73.0

127 8.2 5.5 8.3



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

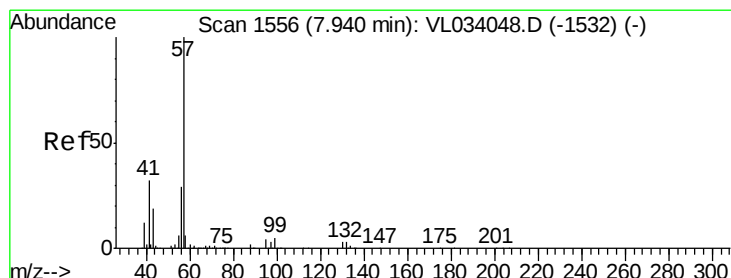
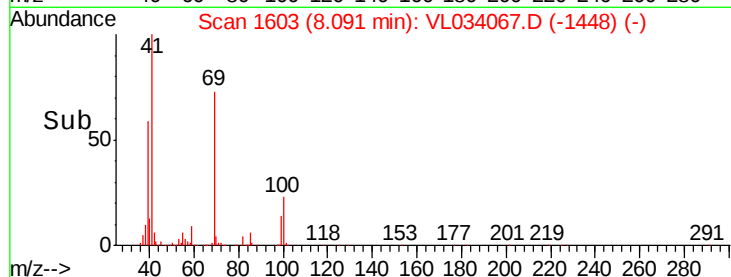
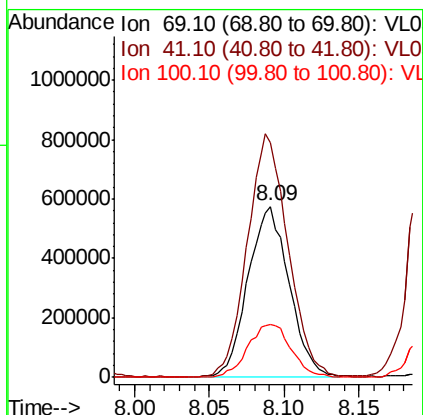
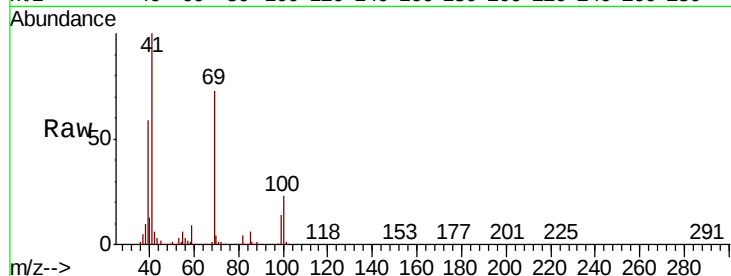




#43
Methvl Methacrilate
Concen: 13.781 ppbv
RT: 8.09 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

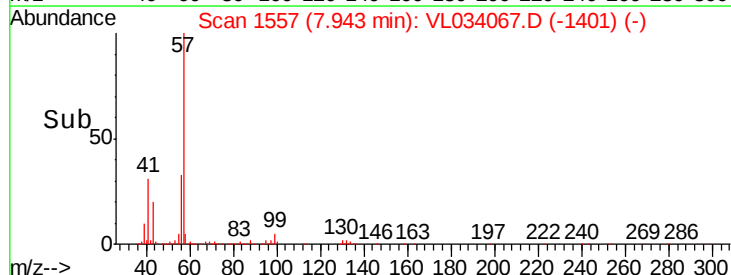
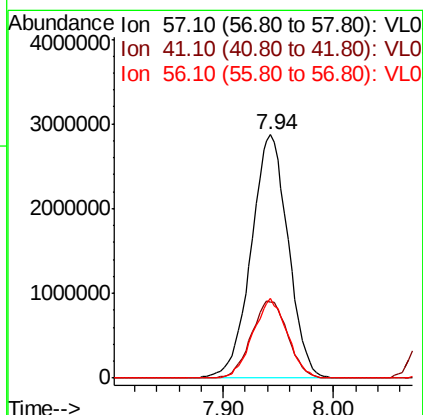
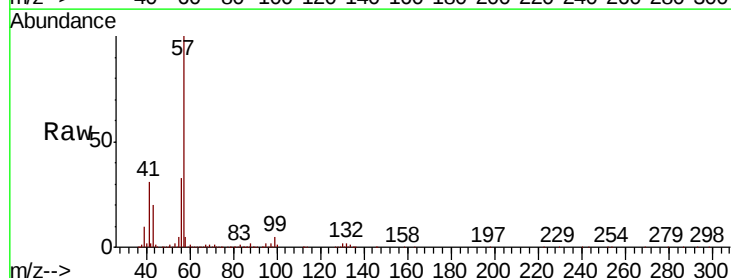
Instrument :
MSVOA_L
ClientSampled :

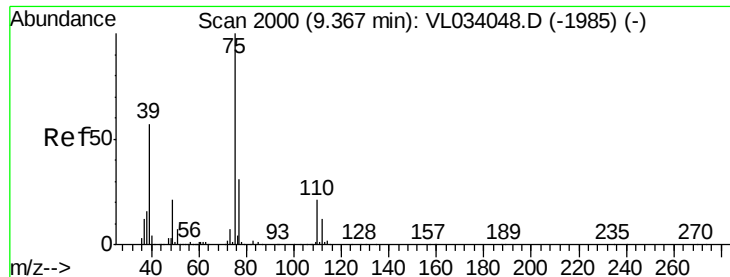
Tot Ion: 69 Resp: 1101726
Ion Ratio Lower Upper
69 100
41 140.7 112.8 169.2
100 32.8 26.1 39.1



#44
2,2,4-Trimethylpentane
Concen: 17.907 ppbv
RT: 7.94 min Scan# 1557
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Tgt Ion: 57 Resp: 6668304
Ion Ratio Lower Upper
57 100
41 31.4 26.2 39.2
56 30.7 24.2 36.2





#45

t-1,3-Dichloropropene

Concen: 14.234 ppbv

RT: 9.37 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

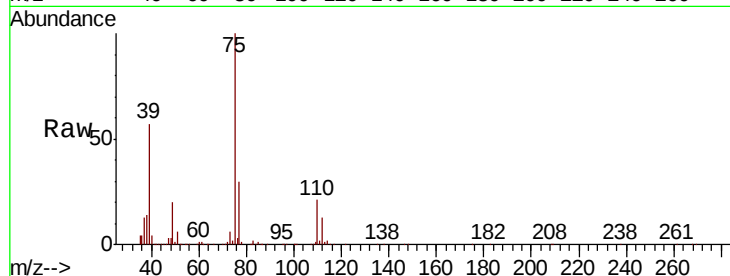
ClientSampleId :

Tot Ion: 75 Resp: 1464087

Ion Ratio Lower Upper

75 100

77 29.7 24.6 37.0



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

800000

600000

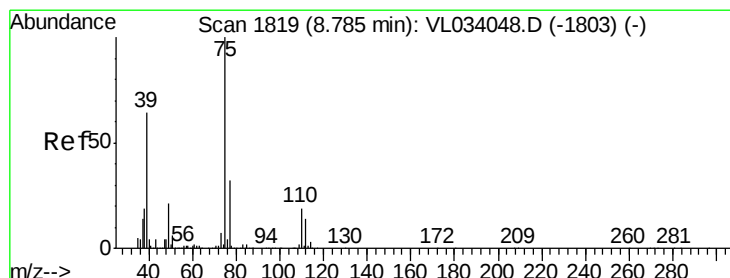
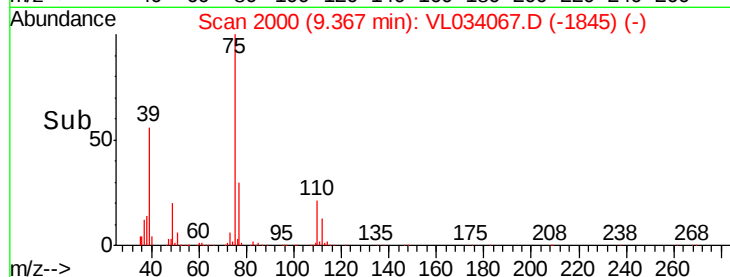
400000

200000

0

9.30 9.35 9.40 9.45

Time-->



#46

cis-1,3-Dichloropropene

Concen: 14.494 ppbv

RT: 8.79 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

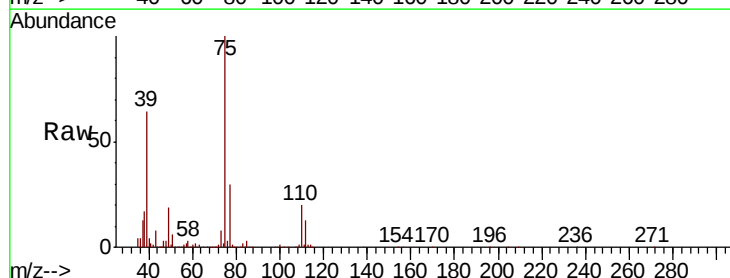
Tgt Ion: 75 Resp: 1675643

Ion Ratio Lower Upper

75 100

39 63.7 51.4 77.2

77 30.4 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1000000

800000

600000

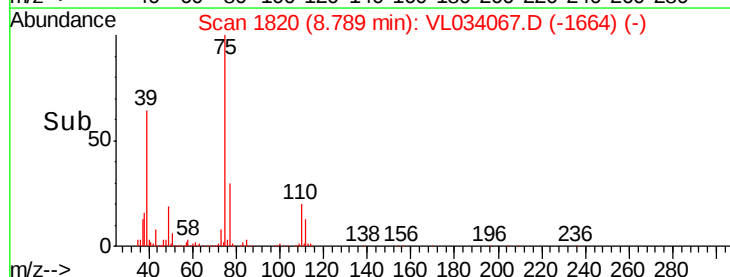
400000

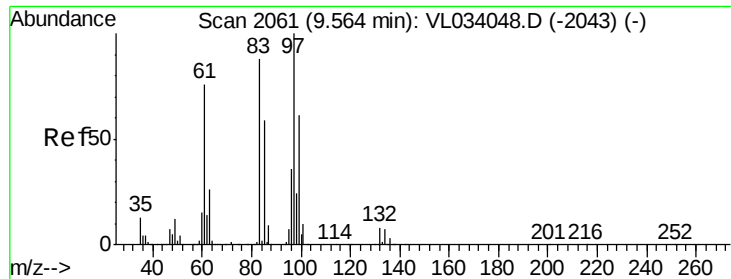
200000

0

8.70 8.75 8.80 8.85

Time-->





#47

1,1,2-Trichloroethane

Concen: 11.736 ppbv

RT: 9.57 min Scan# 2062

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 1111116

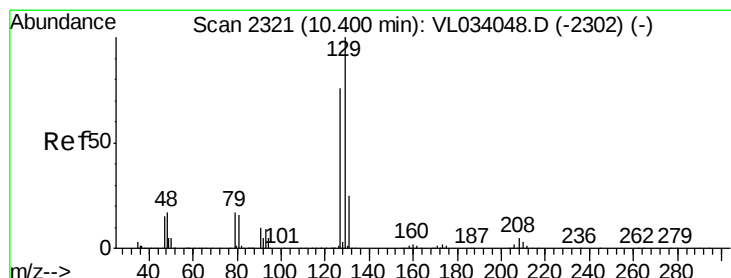
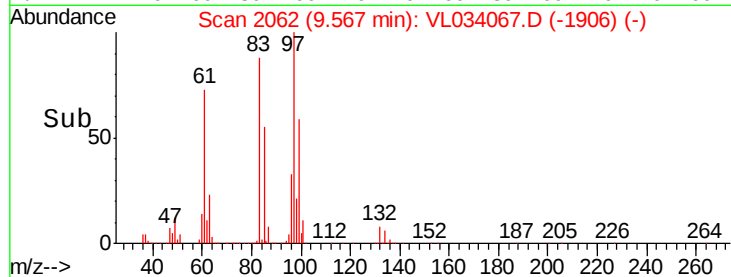
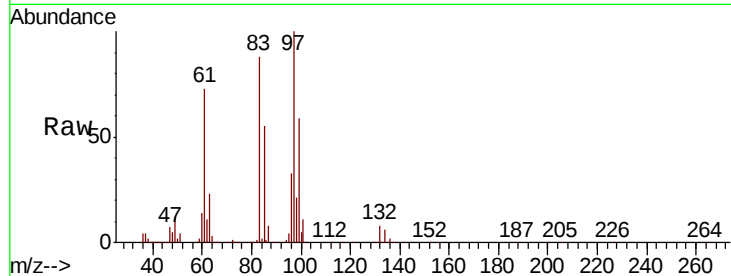
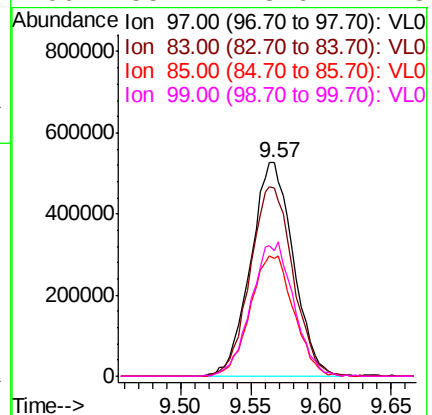
Ion	Ratio	Lower	Upper
97	100		
83	87.9	70.6	106.0
85	55.2	47.3	70.9
99	58.7	48.6	72.8

97 100

83 87.9 70.6 106.0

85 55.2 47.3 70.9

99 58.7 48.6 72.8



#48

Dibromochloromethane

Concen: 10.757 ppbv

RT: 10.40 min Scan# 2321

Delta R.T. -0.00 min

Lab File: VL034067.D

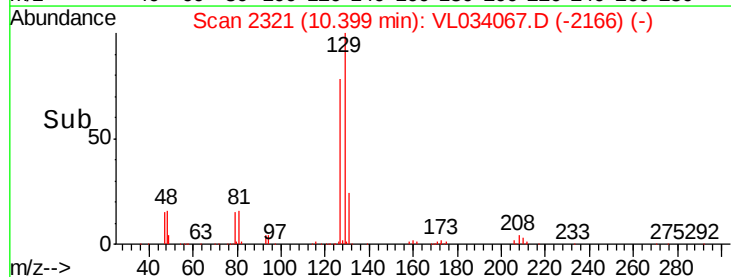
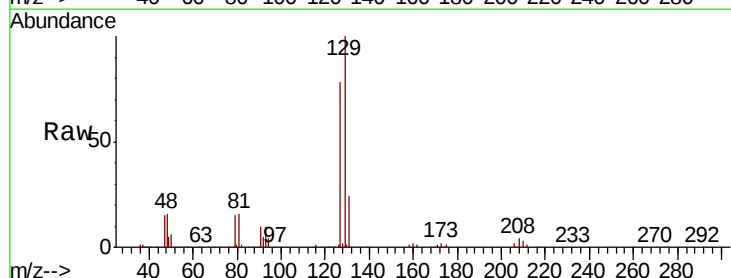
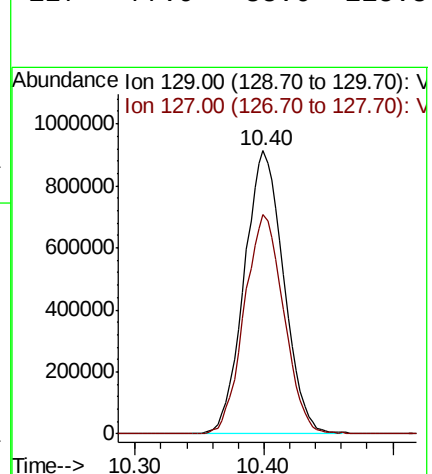
Acq: 30 Jul 2019 17:45

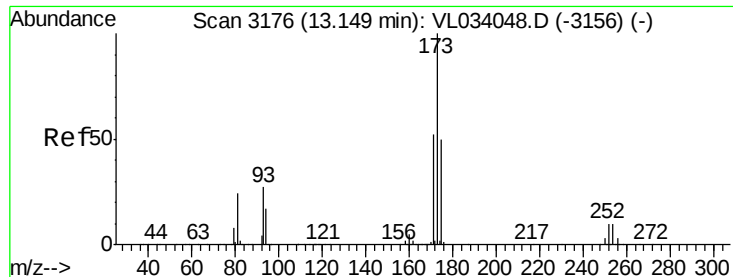
Tgt Ion: 129 Resp: 1944379

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.8

129 100

127 77.9 38.6 115.8





#49

Bromoform

Concen: 11.226 ppbv

RT: 13.15 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

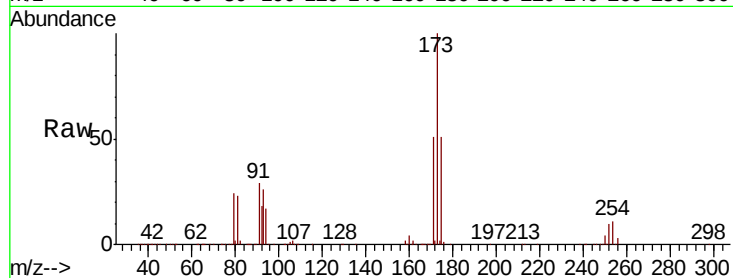
Tot Ion:173 Resp: 1769063

Ion Ratio Lower Upper

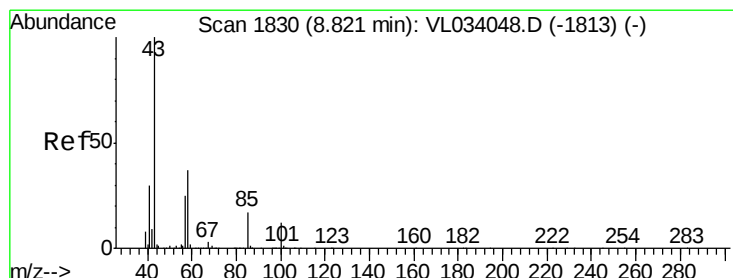
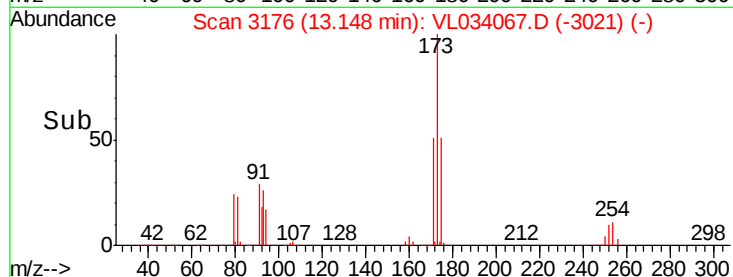
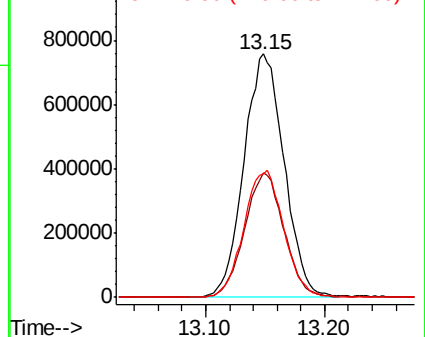
173 100

175 50.2 39.4 59.0

171 51.8 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: 13.317 ppbv

RT: 8.82 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VL034067.D

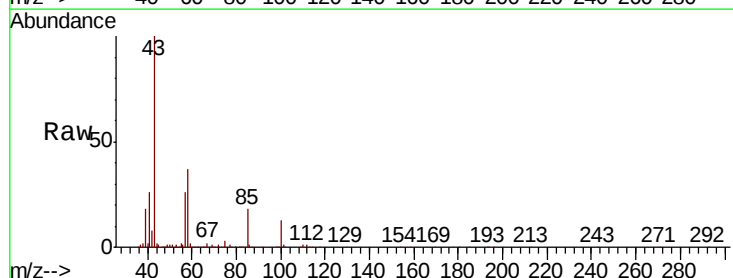
Acq: 30 Jul 2019 17:45

Tgt Ion: 43 Resp: 2741375

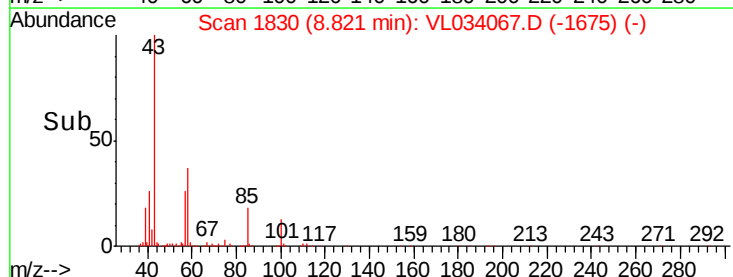
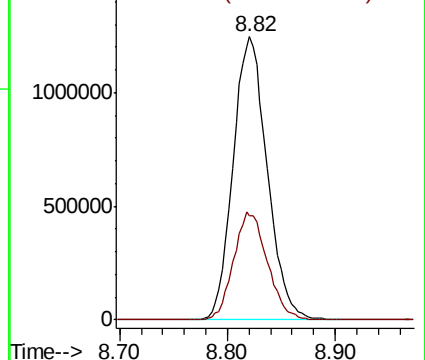
Ion Ratio Lower Upper

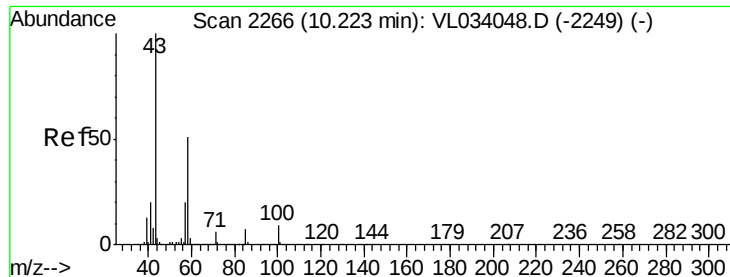
43 100

58 37.7 30.7 46.1



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

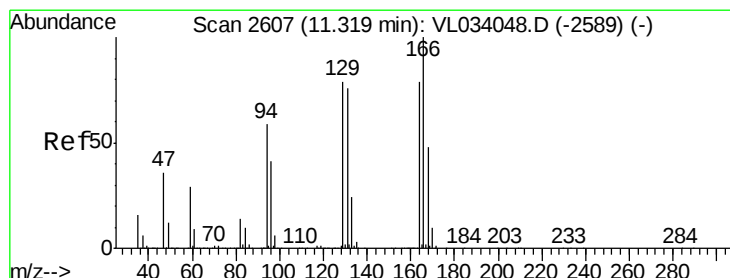
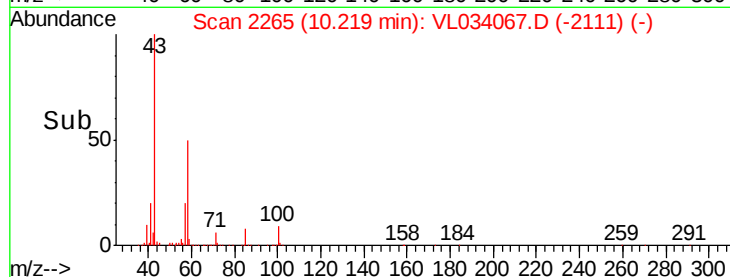
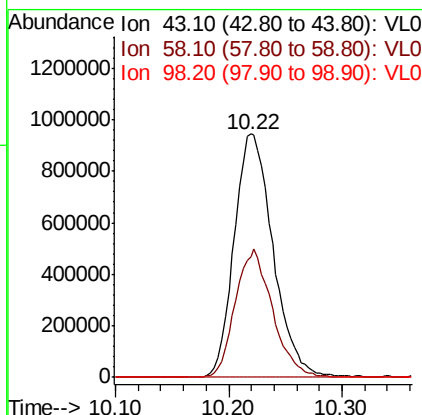
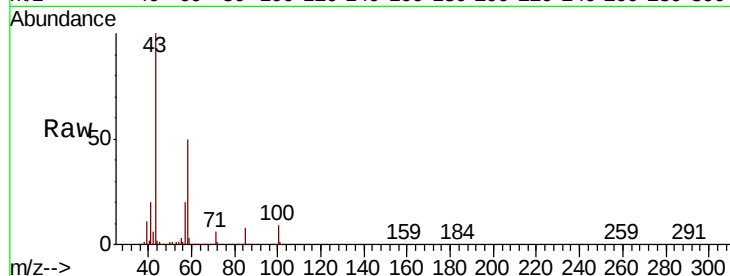




#51
2-Hexanone
Concen: 13.149 ppbv
RT: 10.22 min Scan# 2265
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

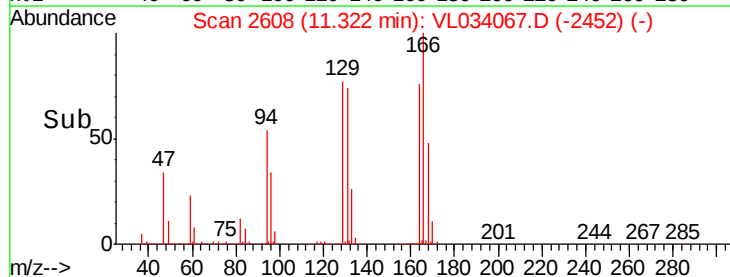
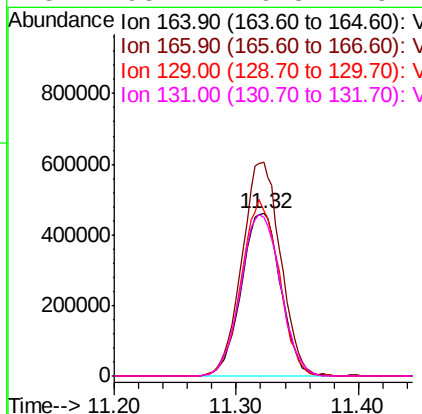
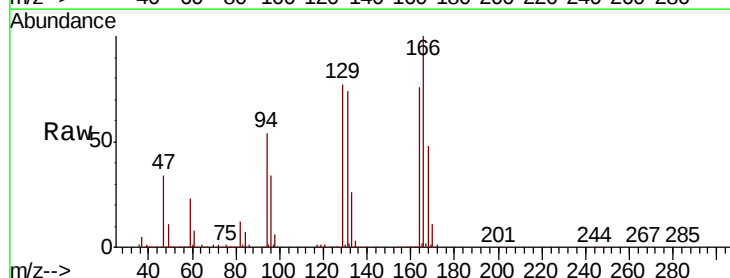
Instrument :
MSVOA_L
ClientSampled :

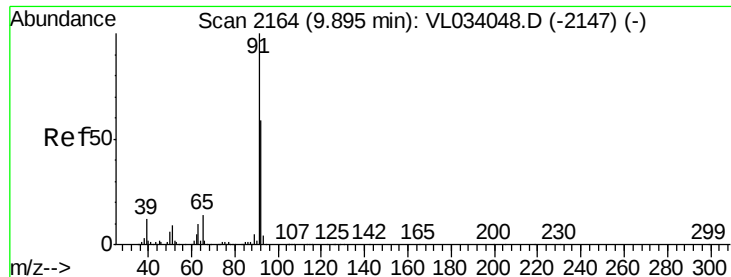
Tot Ion: 43 Resp: 2251032
Ion Ratio Lower Upper
43 100
58 50.5 40.2 60.2
98 0.3 0.4 0.6#



#52
Tetrachloroethene
Concen: 11.597 ppbv
RT: 11.32 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Tgt Ion: 164 Resp: 1019962
Ion Ratio Lower Upper
164 100
166 131.8 101.6 152.4
129 102.1 80.7 121.1
131 98.1 76.8 115.2





#53

Toluene

Concen: 13.998 ppbv

RT: 9.89 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

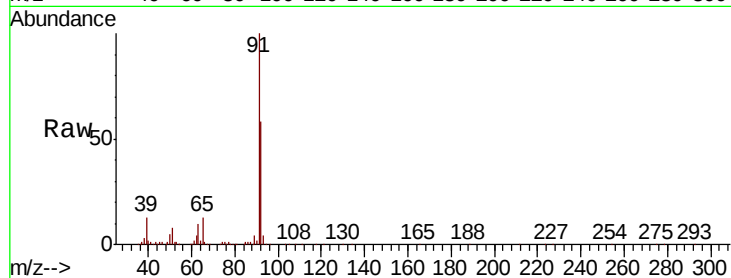
ClientSampleId :

Tot Ion: 91 Resp: 3275746

Ion Ratio Lower Upper

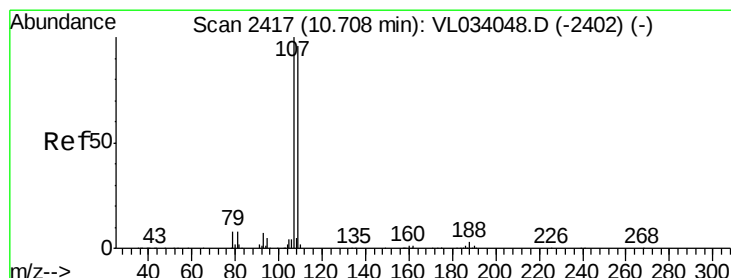
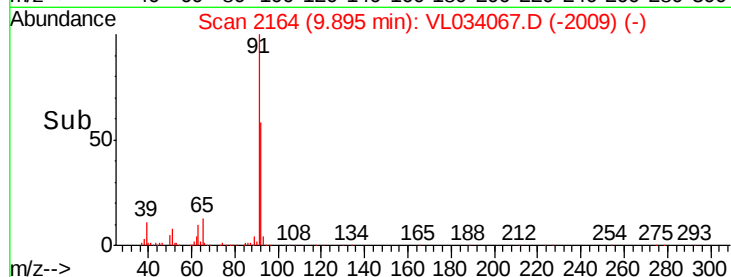
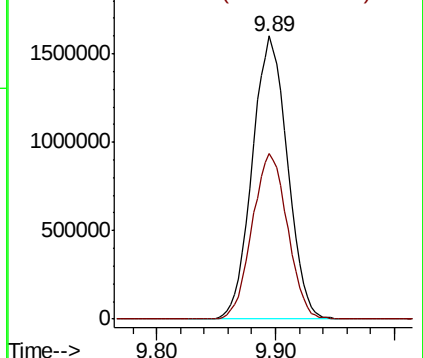
91 100

92 58.8 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: 12.184 ppbv

RT: 10.71 min Scan# 2418

Delta R.T. 0.00 min

Lab File: VL034067.D

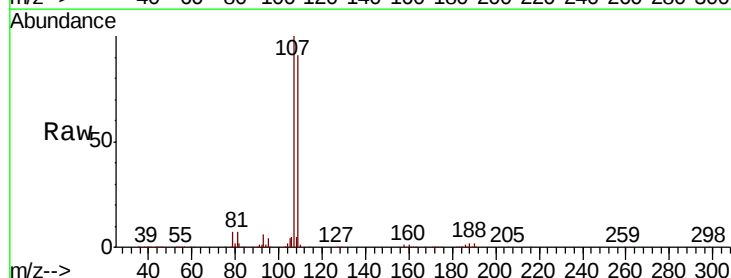
Acq: 30 Jul 2019 17:45

Tgt Ion: 107 Resp: 1712181

Ion Ratio Lower Upper

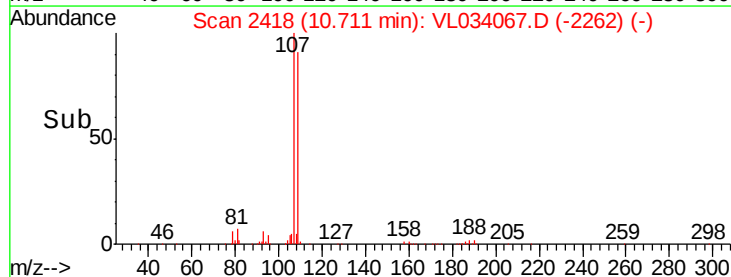
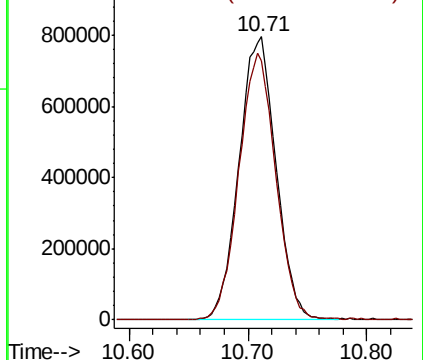
107 100

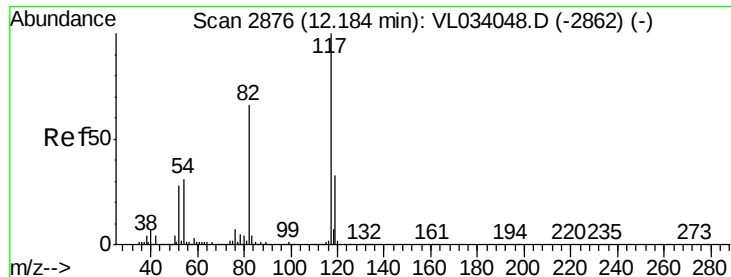
109 91.5 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

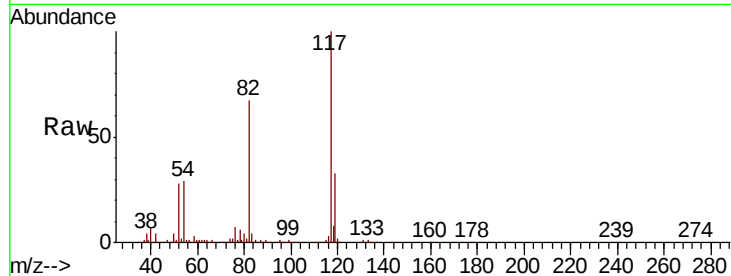




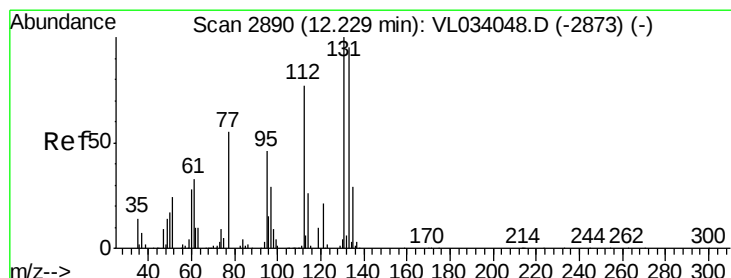
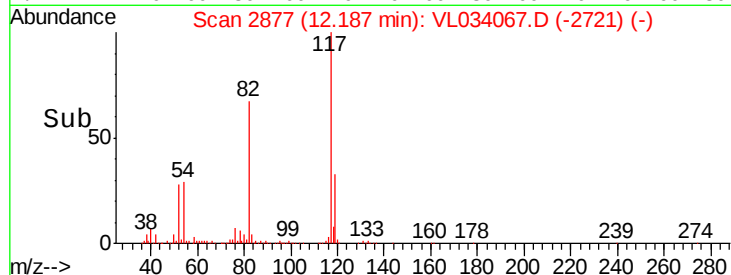
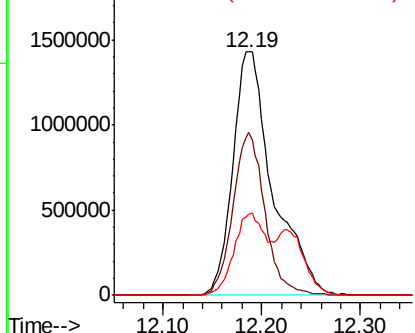
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min Scan# 2877
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 4040944
Ion Ratio Lower Upper
117 100
82 53.3 49.8 74.8
119 28.2 43.0 64.6#

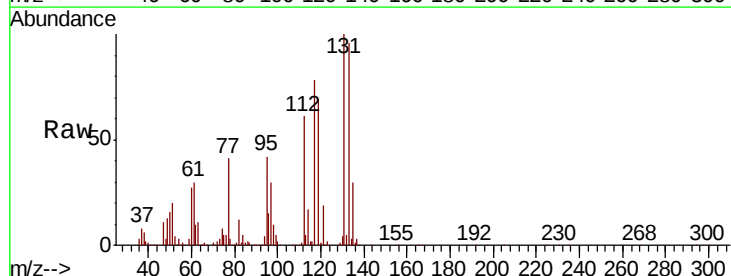


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

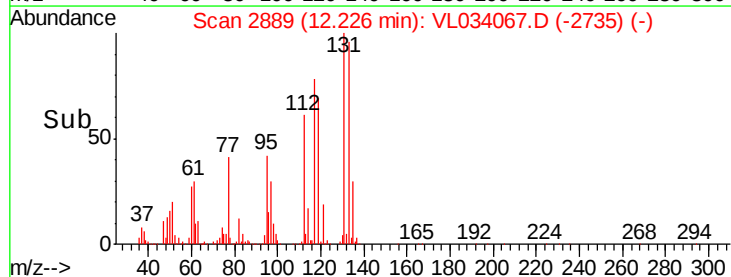
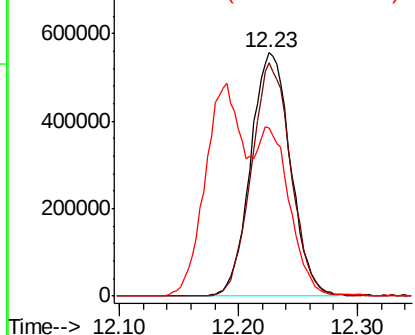


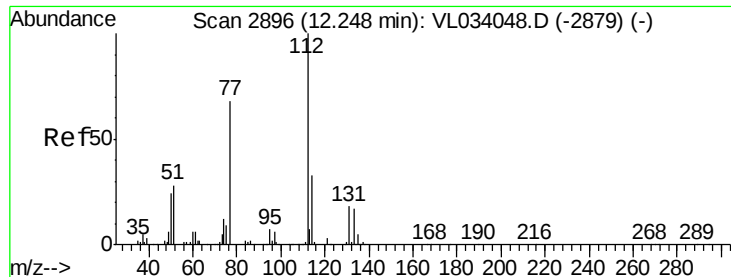
#56
1,1,1,2-Tetrachloroethane
Concen: 7.145 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Tgt Ion:131 Resp: 1290179
Ion Ratio Lower Upper
131 100
133 95.1 76.6 114.8
119 55.2 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: 7.692 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampled :

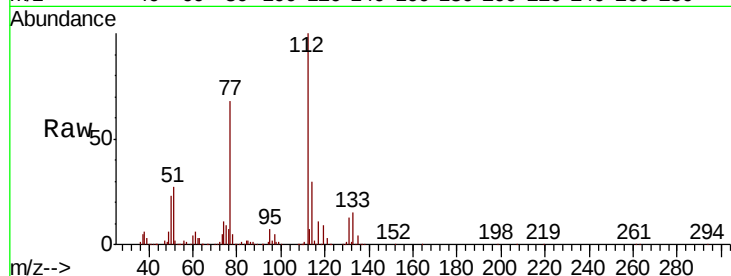
Tot Ion:112 Resp: 2408052

Ion	Ratio	Lower	Upper
112	100		
77	67.2	55.1	82.7
114	30.3	29.5	36.1

112 100

77 67.2 55.1 82.7

114 30.3 29.5 36.1

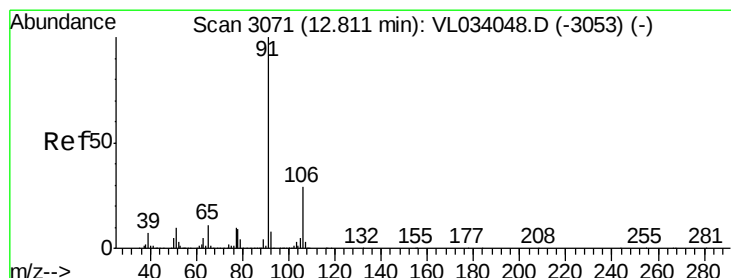
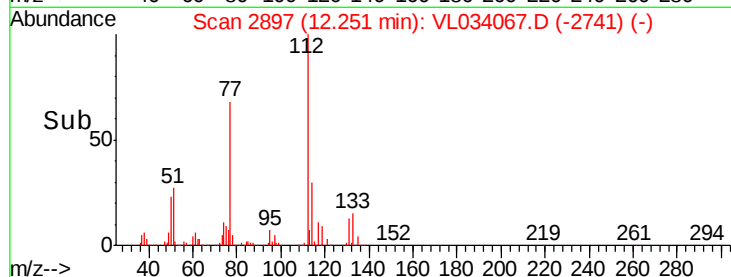
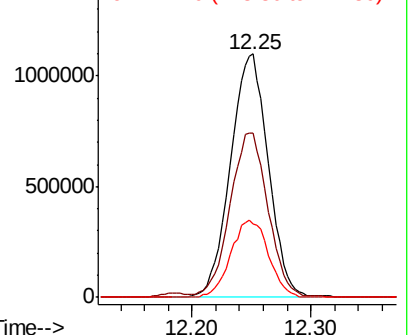


Abundance

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: 8.903 ppbv

RT: 12.81 min Scan# 3071

Delta R.T. -0.00 min

Lab File: VL034067.D

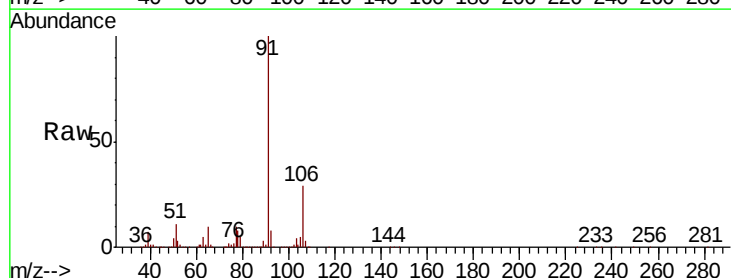
Acq: 30 Jul 2019 17:45

Tgt Ion: 91 Resp: 4257692

Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.5	35.3

91 100

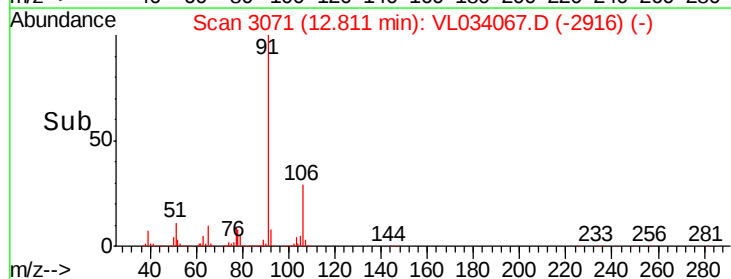
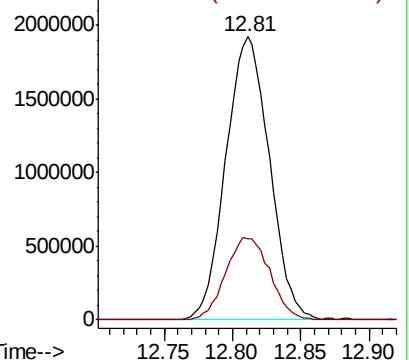
106 28.9 23.5 35.3

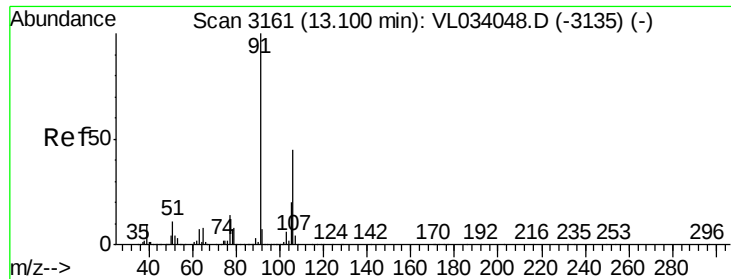


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

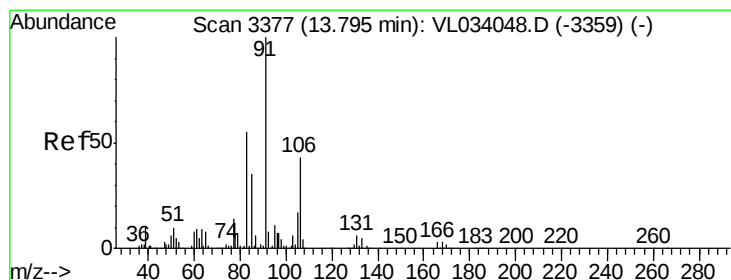
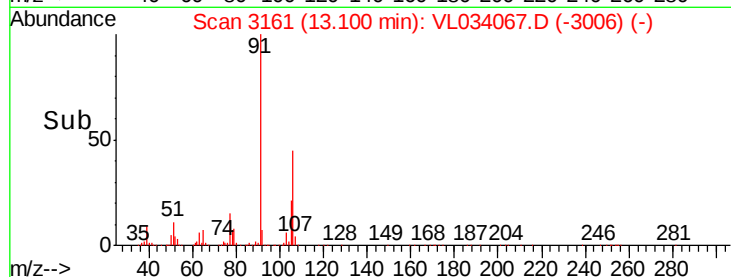
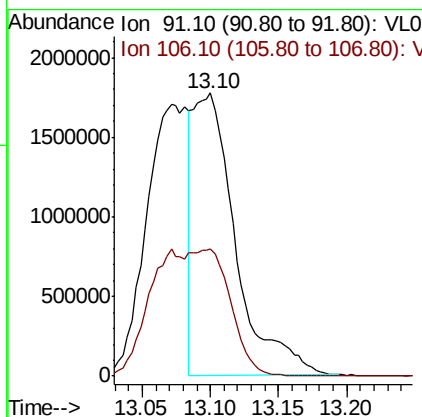
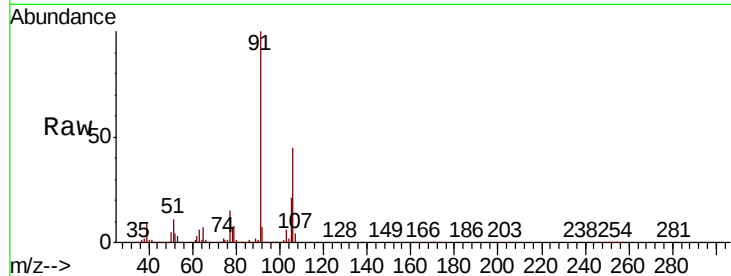




#59
m/p-Xylene
Concen: 8.783 ppbv
RT: 13.10 min Scan# 3161
Delta R.T. -0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

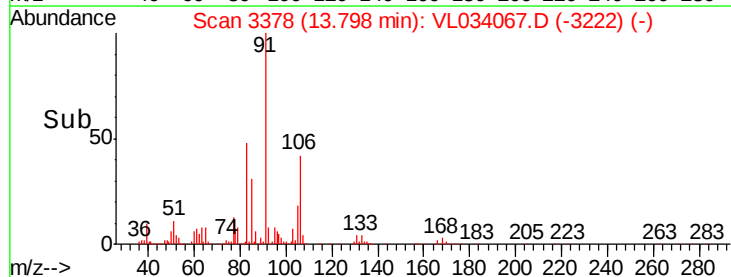
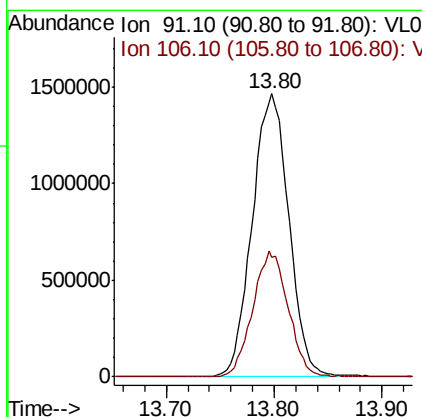
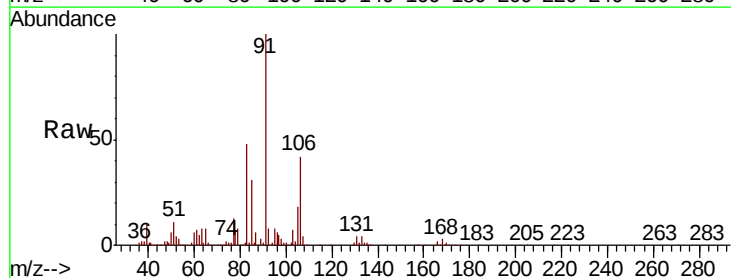
Instrument :
MSVOA_L
ClientSampleId :

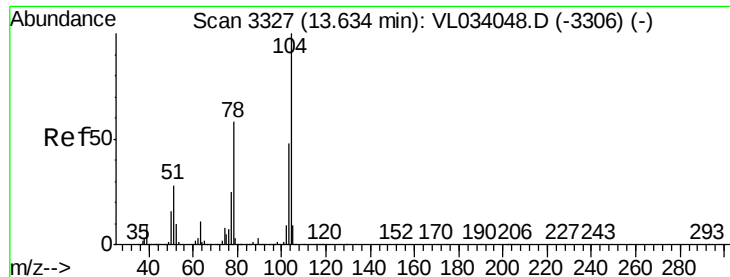
Tot Ion: 91 Resp: 3818318
Ion Ratio Lower Upper
91 100
106 82.9 35.1 52.7#



#60
o-Xylene
Concen: 7.989 ppbv
RT: 13.80 min Scan# 3378
Delta R.T. 0.00 min
Lab File: VL034067.D
Acq: 30 Jul 2019 17:45

Tgt Ion: 91 Resp: 3451781
Ion Ratio Lower Upper
91 100
106 43.2 21.2 63.6





#61

Stvrene

Concen: 9.358 ppbv

RT: 13.63 min Scan# 3326

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

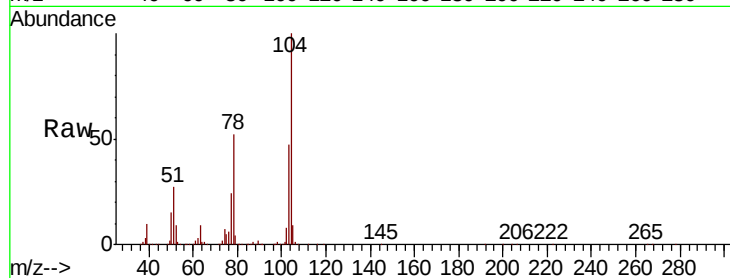
Tot Ion:104 Resp: 2669995

Ion Ratio Lower Upper

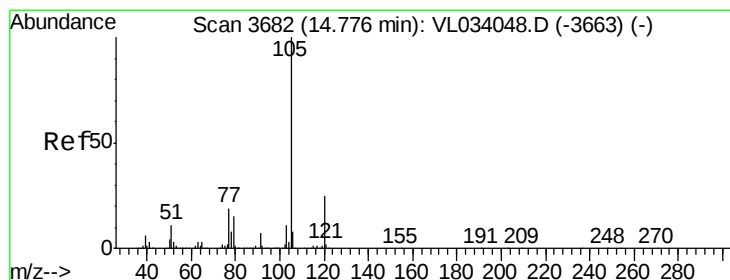
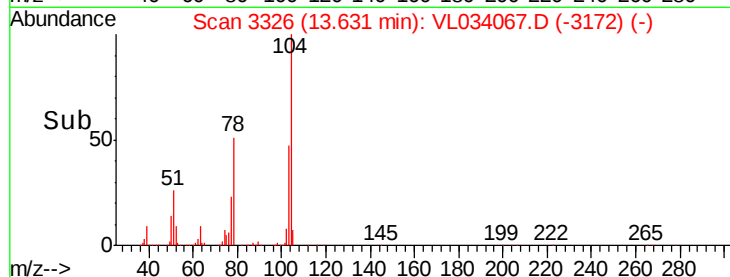
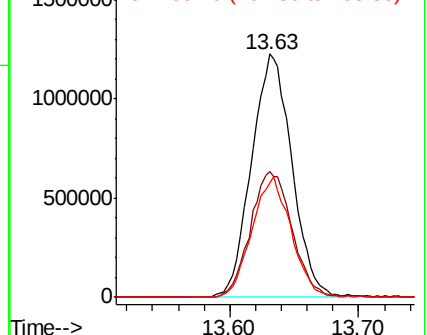
104 100

78 53.6 44.3 66.5

103 48.5 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: 8.266 ppbv

RT: 14.78 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VL034067.D

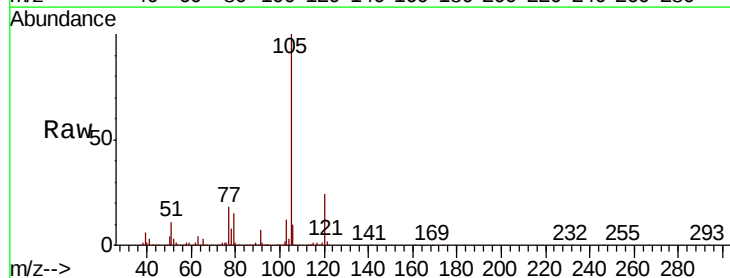
Acq: 30 Jul 2019 17:45

Tgt Ion:105 Resp: 4784797

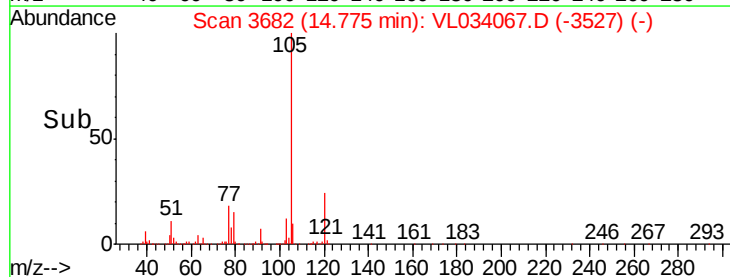
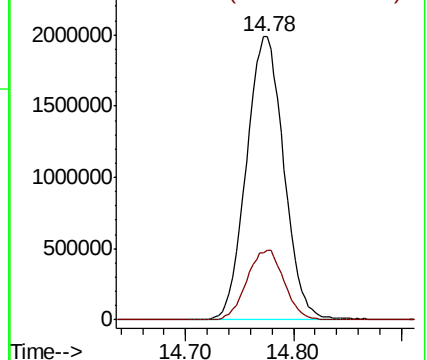
Ion Ratio Lower Upper

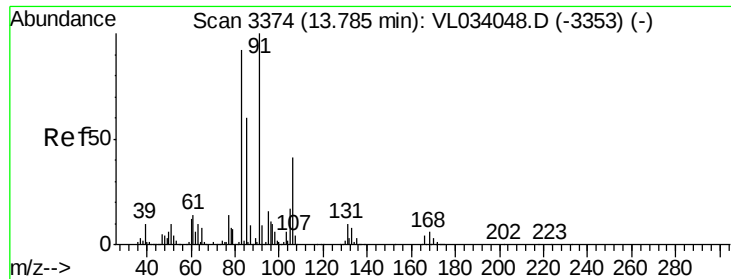
105 100

120 24.6 20.2 30.2



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

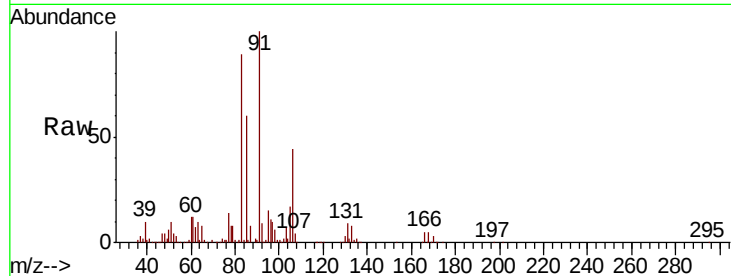




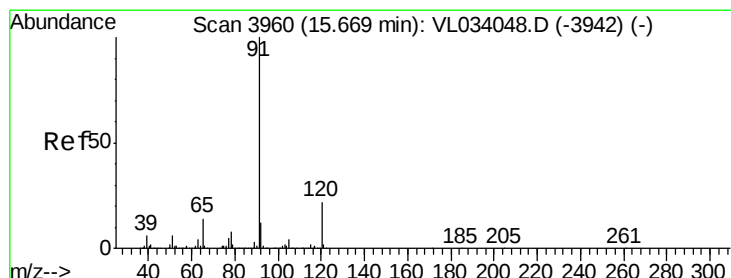
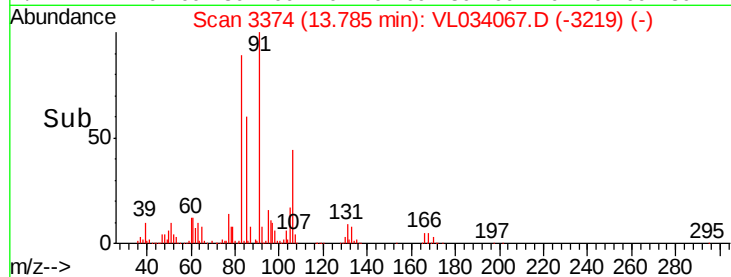
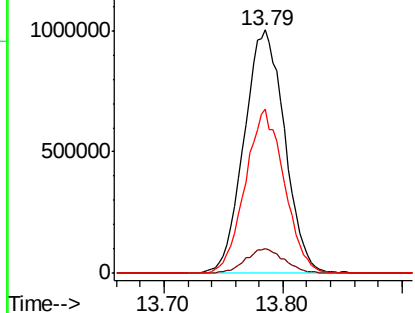
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.123 ppbv
 RT: 13.79 min Scan# 3374
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 83 Resp: 2362007
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.4
 85 65.1 32.4 97.0

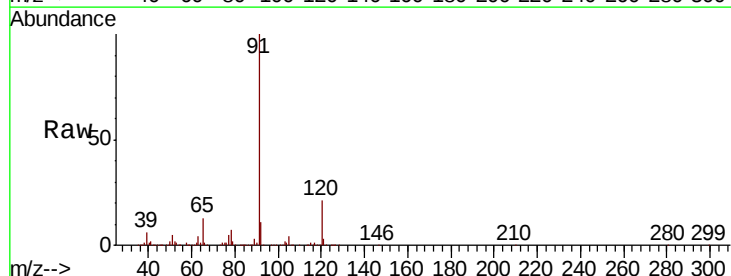


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

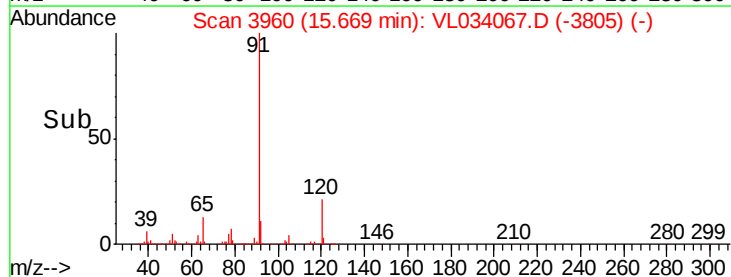
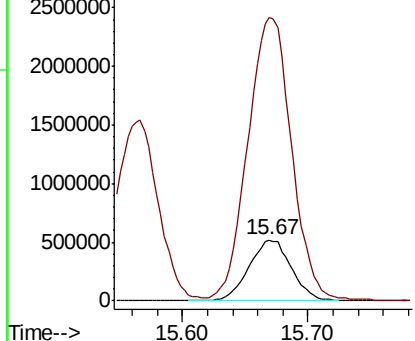


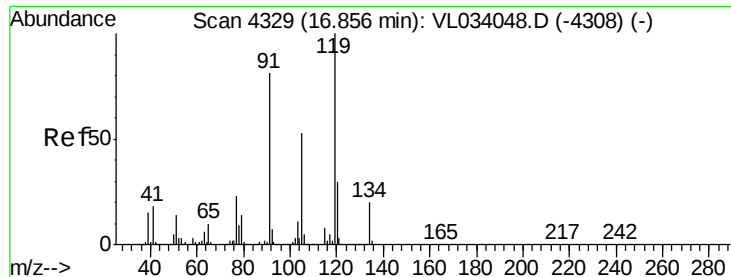
#64
 n-propylbenzene
 Concen: 8.123 ppbv
 RT: 15.67 min Scan# 3960
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Tgt Ion:120 Resp: 1217646
 Ion Ratio Lower Upper
 120 100
 91 483.0 386.2 579.2



Abundance Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.820 ppbv

RT: 16.86 min Scan# 4330

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

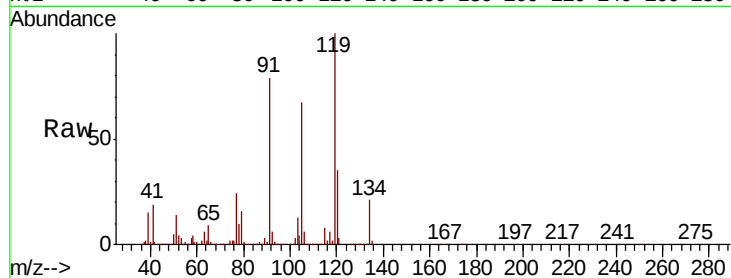
Tot Ion:119 Resp: 4173185

Ion	Ratio	Lower	Upper
119	100		
91	82.9	66.9	100.3
134	20.0	15.5	23.3

119 100

91 82.9 66.9 100.3

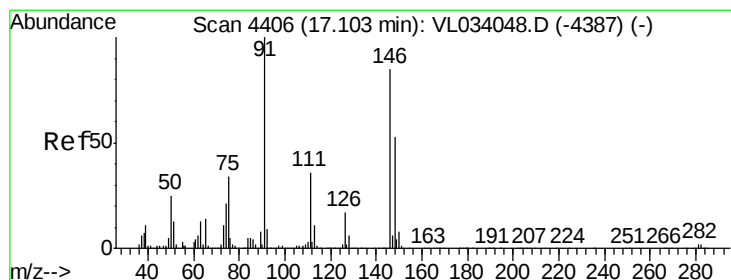
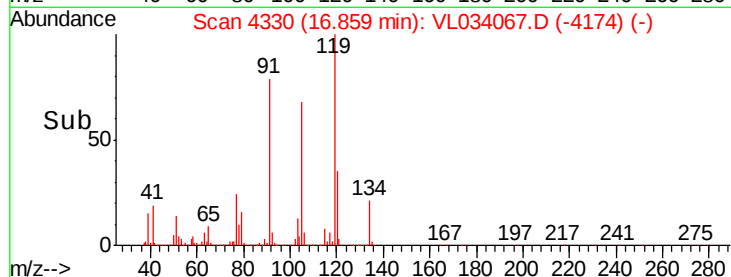
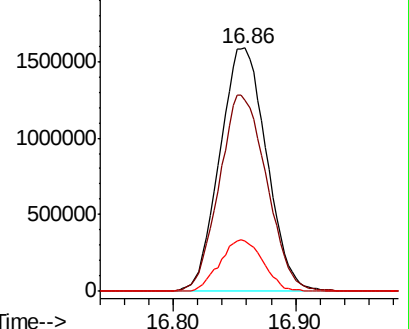
134 20.0 15.5 23.3



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: 8.647 ppbv

RT: 17.10 min Scan# 4405

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

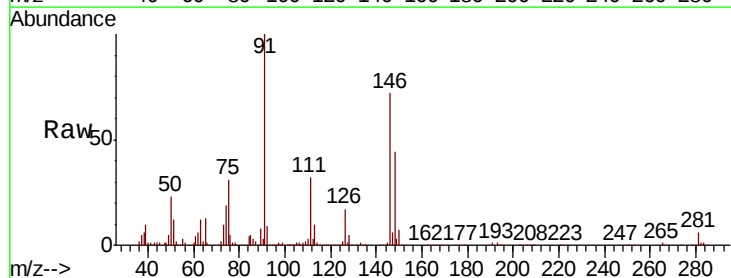
Tgt Ion: 91 Resp: 2315293

Ion	Ratio	Lower	Upper
91	100		
126	17.1	13.5	20.3
128	5.3	4.5	6.7

91 100

126 17.1 13.5 20.3

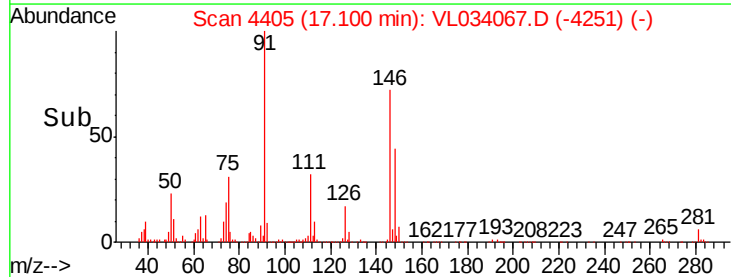
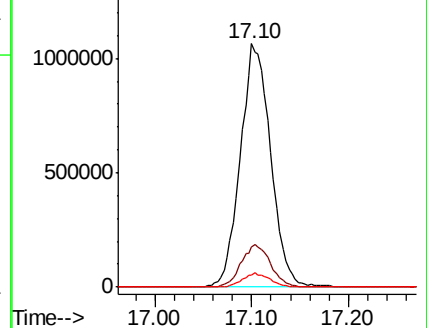
128 5.3 4.5 6.7

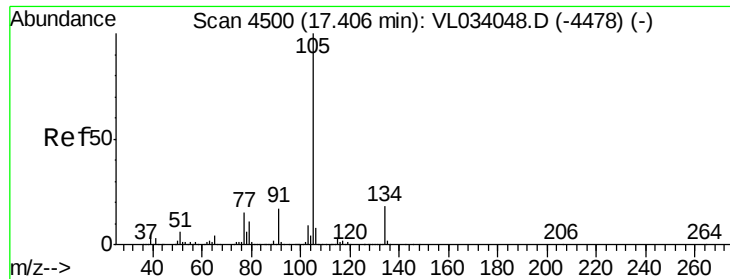


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

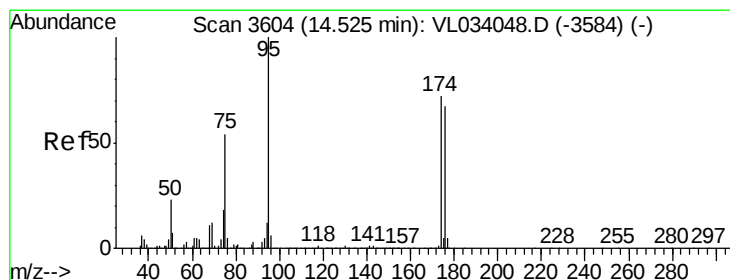
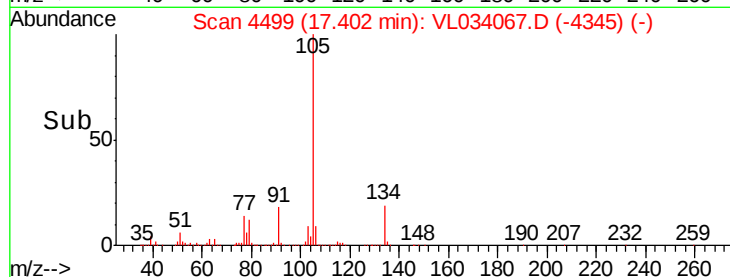
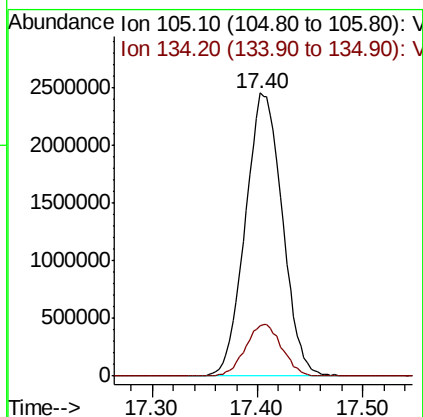
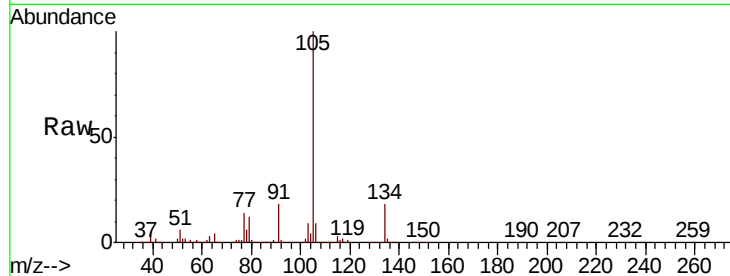




#67
 sec-Butylbenzene
 Concen: 7.909 ppbv
 RT: 17.40 min Scan# 4499
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

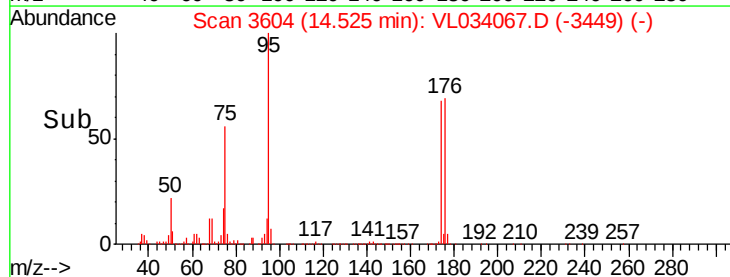
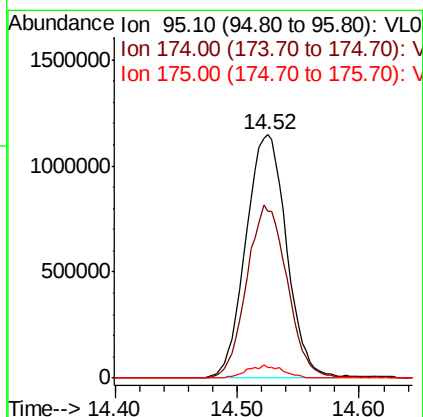
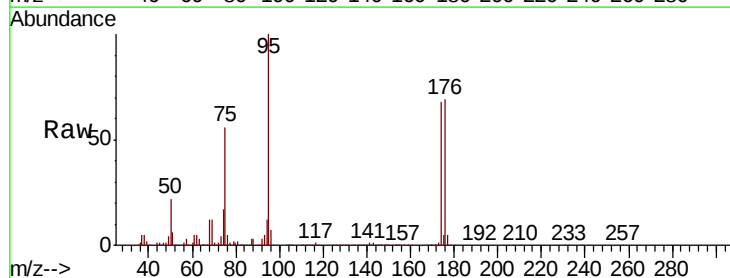
Instrument :
 MSVOA_L
 ClientSampled :

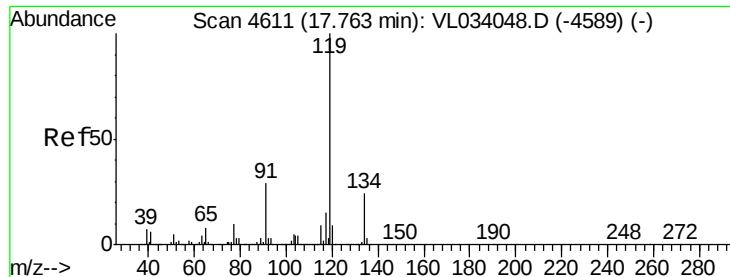
Tot Ion:105 Resp: 5999252
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.3 21.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.272 ppbv
 RT: 14.52 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Tgt Ion: 95 Resp: 2642139
 Ion Ratio Lower Upper
 95 100
 174 71.3 57.6 86.4
 175 4.9 4.1 6.1





#69

p-Isopropyltoluene

Concen: 8.180 ppbv

RT: 17.76 min Scan# 4611

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampled :

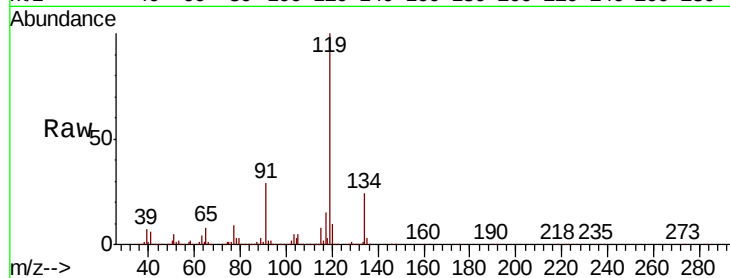
Tot Ion:119 Resp: 5057473

Ion Ratio Lower Upper

119 100

134 25.5 20.1 30.1

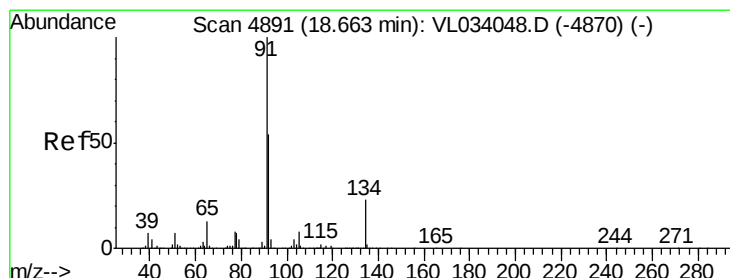
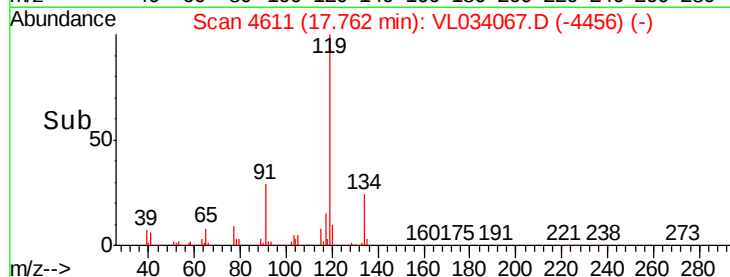
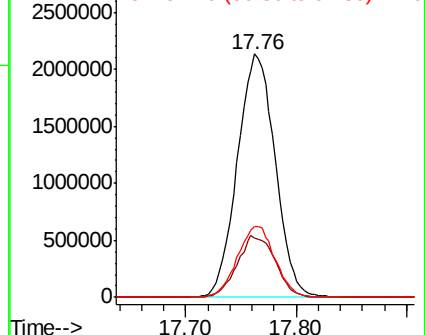
91 29.3 23.6 35.4



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 8.270 ppbv

RT: 18.67 min Scan# 4892

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

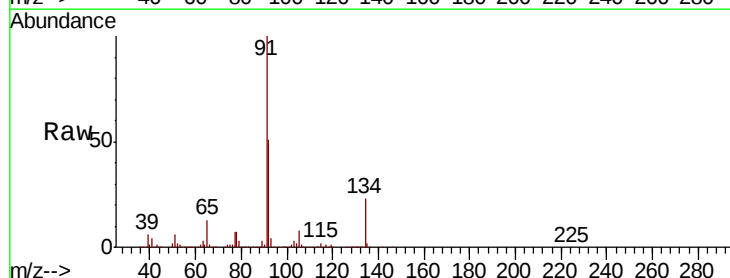
Tgt Ion: 91 Resp: 5412279

Ion Ratio Lower Upper

91 100

92 53.2 42.6 64.0

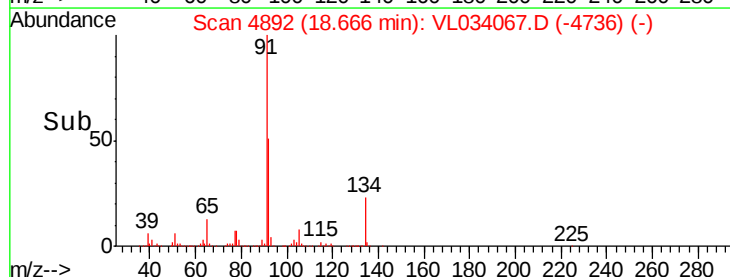
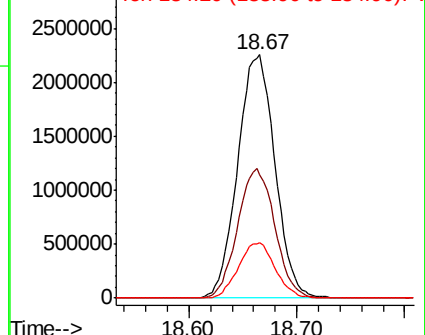
134 22.5 17.7 26.5

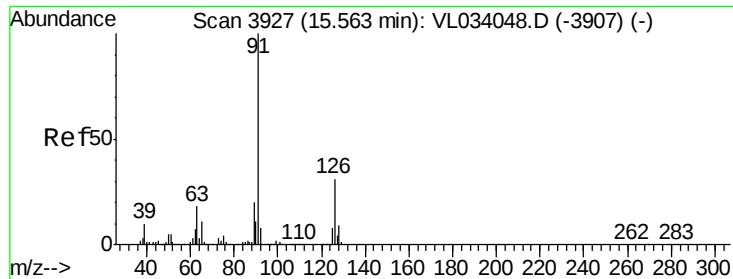


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.579 ppbv

RT: 15.57 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

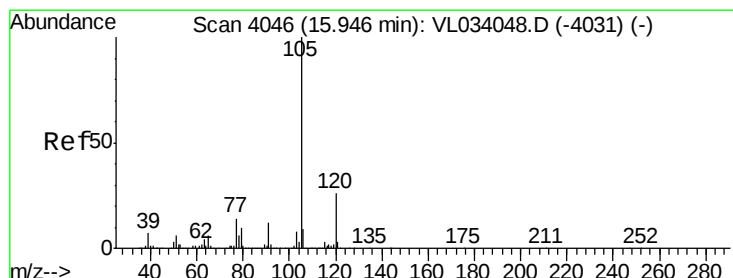
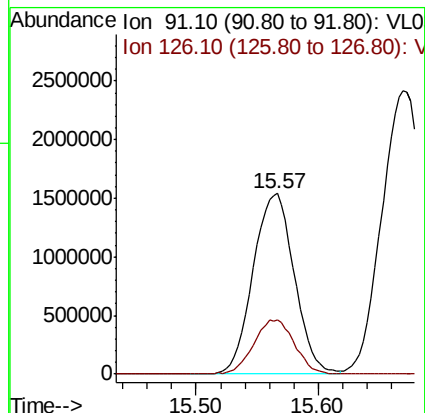
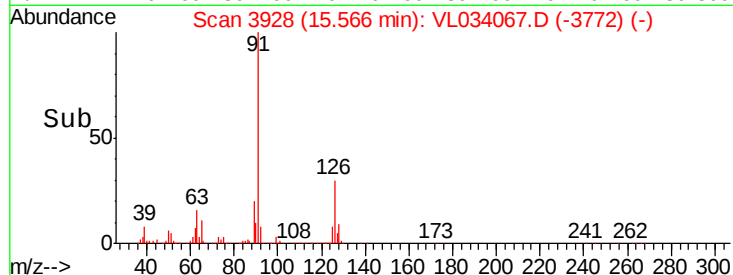
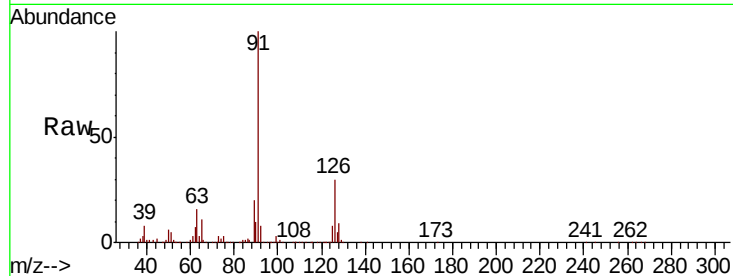
ClientSampled :

Tot Ion: 91 Resp: 3605704

Ion Ratio Lower Upper

91 100

126 30.1 12.0 48.2



#72

4-Ethyltoluene

Concen: 8.526 ppbv

RT: 15.95 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Tgt Ion:105 Resp: 4165354

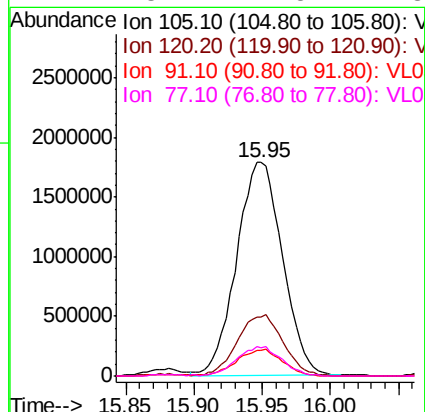
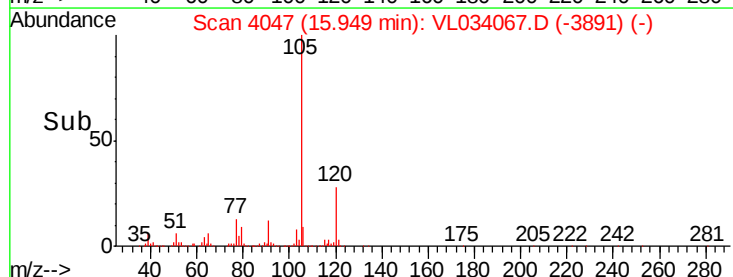
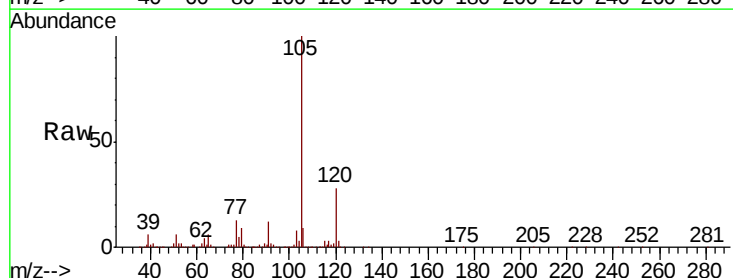
Ion Ratio Lower Upper

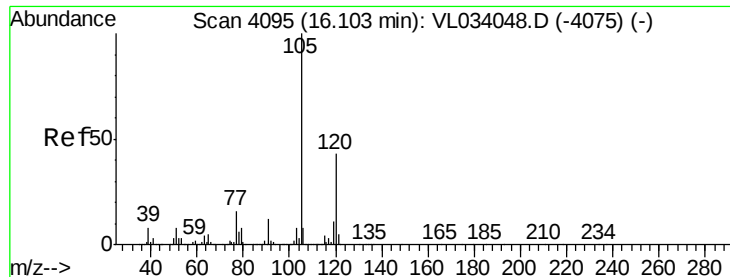
105 100

120 28.8 23.0 34.4

91 12.4 10.6 16.0

77 13.7 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 7.993 ppbv

RT: 16.10 min Scan# 4095

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

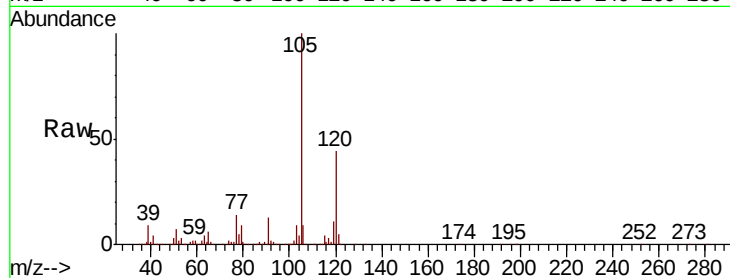
ClientSampleId :

Tot Ion:105 Resp: 3974512

Ion Ratio Lower Upper

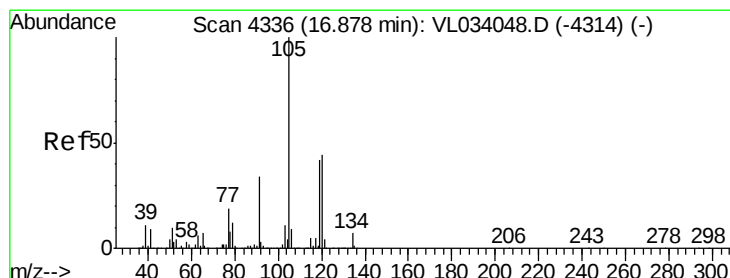
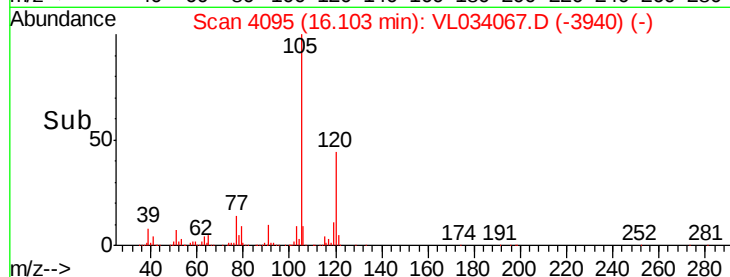
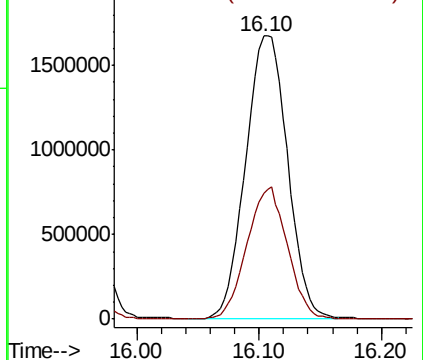
105 100

120 44.5 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: 7.529 ppbv

RT: 16.88 min Scan# 4335

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Tgt Ion:105 Resp: 4112919

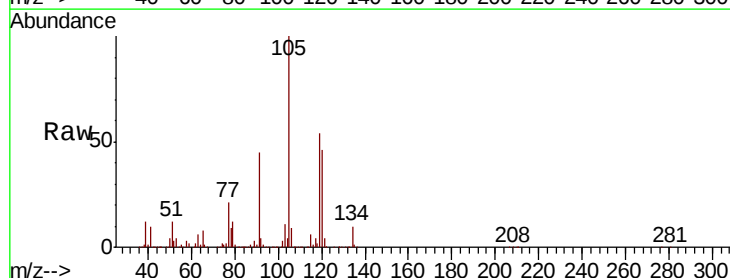
Ion Ratio Lower Upper

105 100

120 46.1 35.6 53.4

91 44.4 28.0 42.0#

77 20.4 15.2 22.8

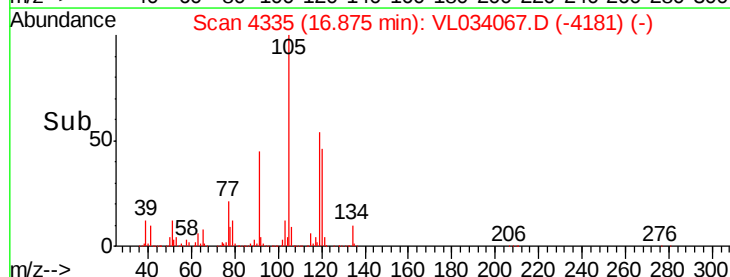
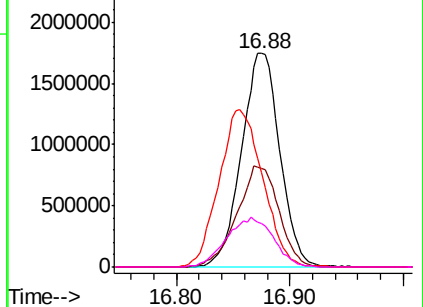


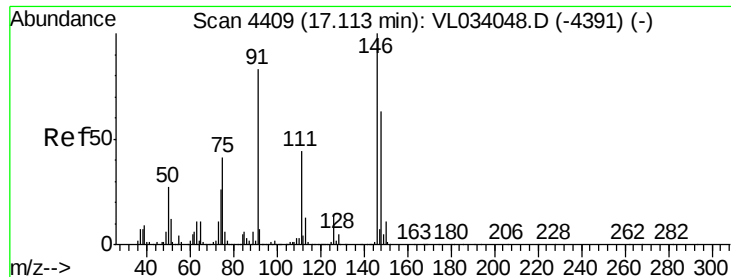
Abundance Ion 105.10 (104.80 to 105.80): V

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: 7.125 ppbv

RT: 17.12 min Scan# 4410

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

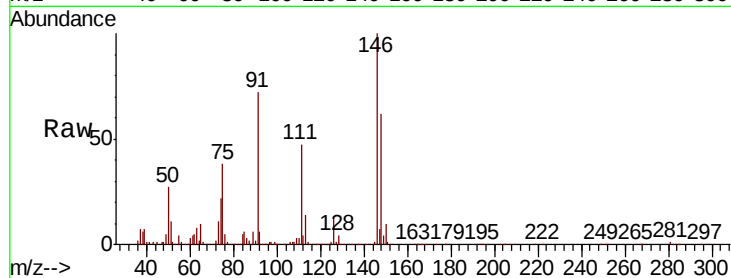
Tot Ion:146 Resp: 2427904

Ion Ratio Lower Upper

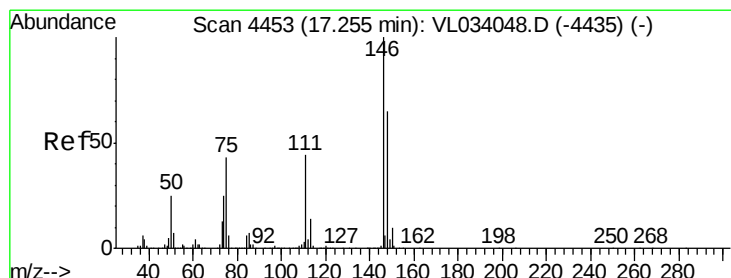
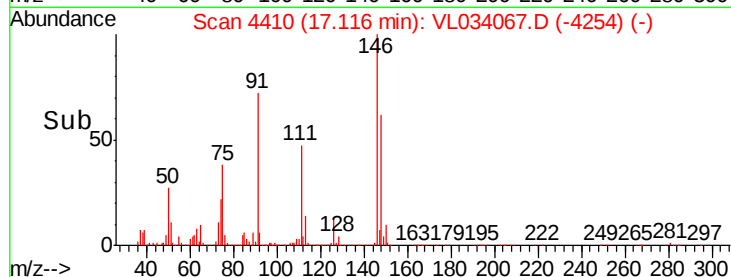
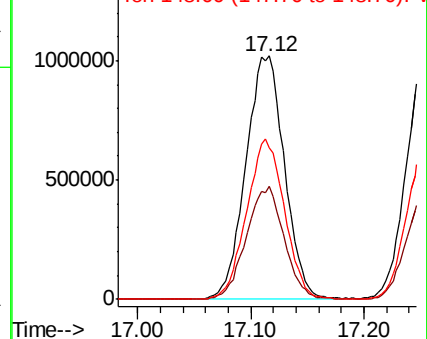
146 100

111 45.5 22.1 66.5

148 64.4 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: 7.626 ppbv

RT: 17.26 min Scan# 4454

Delta R.T. 0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

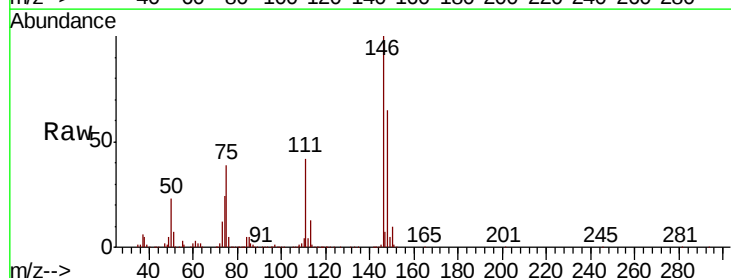
Tgt Ion:146 Resp: 2452789

Ion Ratio Lower Upper

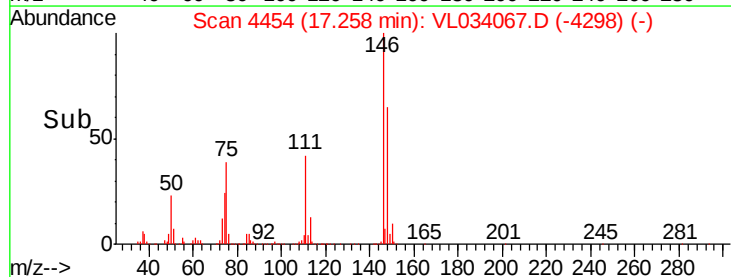
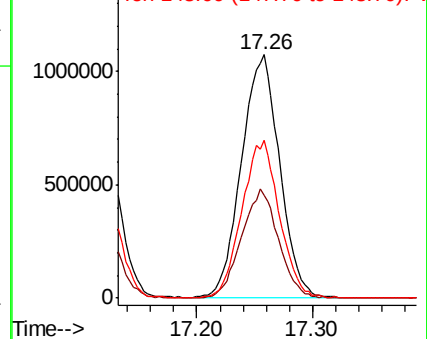
146 100

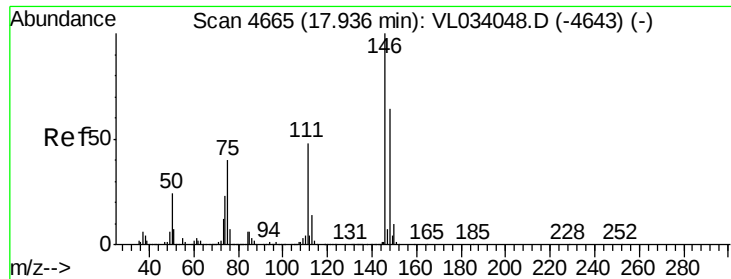
111 43.6 21.8 65.4

148 63.8 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

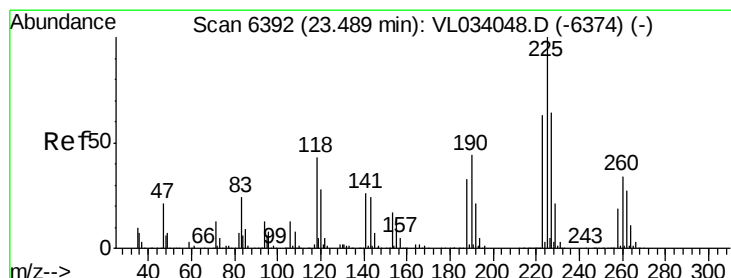
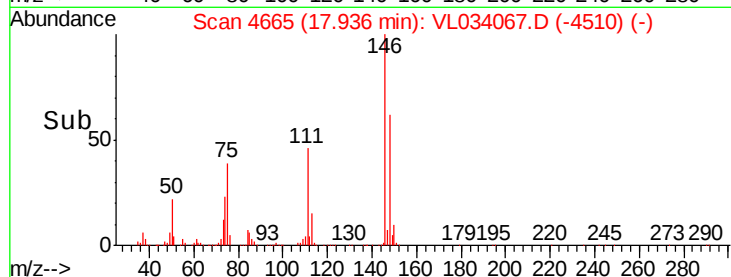
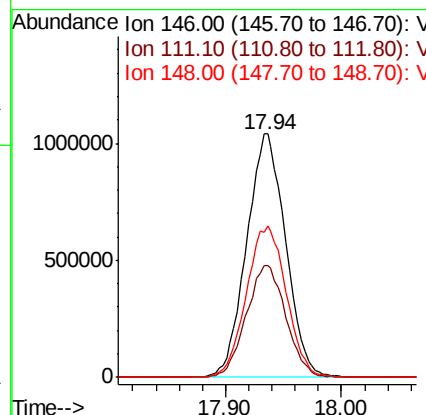
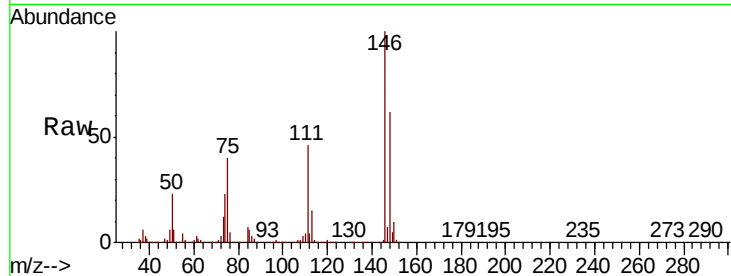




#77
 1,2-Dichlorobenzene
 Concen: 7.740 ppbv
 RT: 17.94 min Scan# 4665
 Delta R.T. -0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

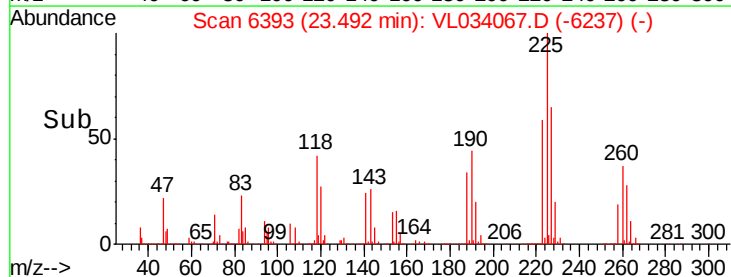
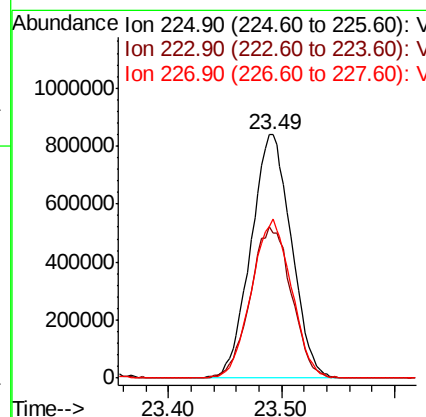
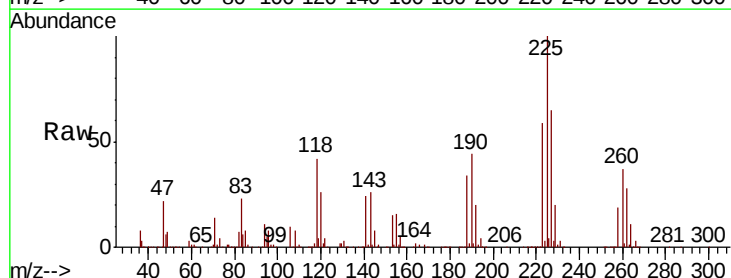
Instrument :
 MSVOA_L
 ClientSampleId :

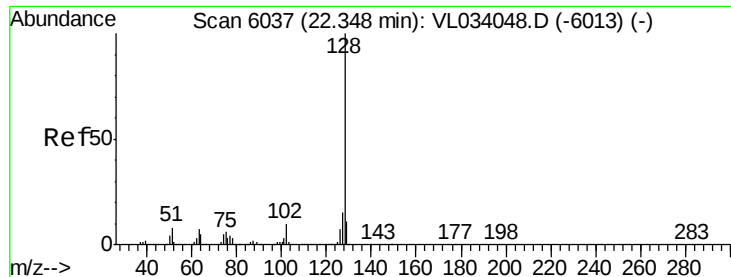
Tot Ion:146 Resp: 2428442
 Ion Ratio Lower Upper
 146 100
 111 46.8 23.4 70.2
 148 63.9 32.3 96.9



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.212 ppbv
 RT: 23.49 min Scan# 6393
 Delta R.T. 0.00 min
 Lab File: VL034067.D
 Acq: 30 Jul 2019 17:45

Tgt Ion:225 Resp: 2081550
 Ion Ratio Lower Upper
 225 100
 223 63.4 49.6 74.4
 227 64.5 51.4 77.2





#79

Naphthalene

Concen: 10.027 ppbv

RT: 22.35 min Scan# 6037

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

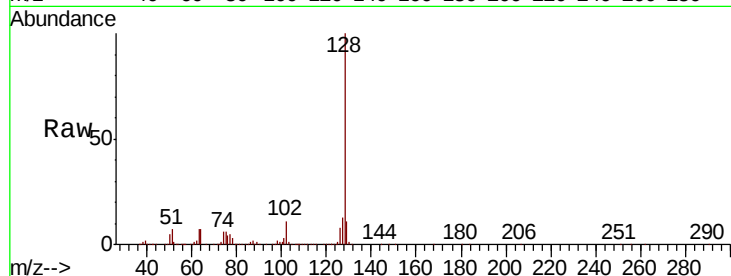
Tot Ion:128 Resp: 4774265

Ion Ratio Lower Upper

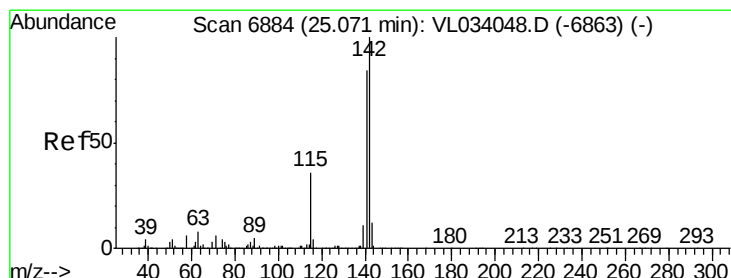
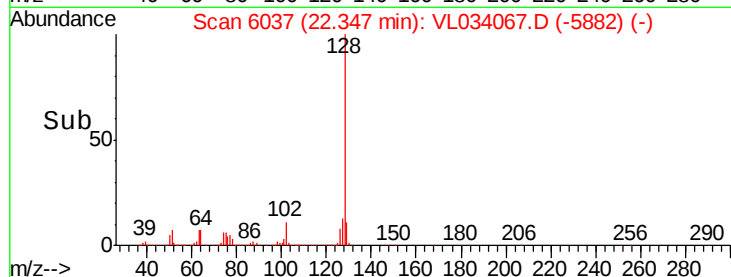
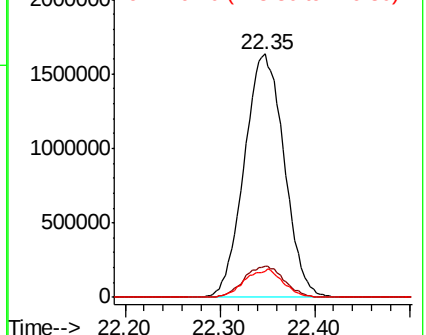
128 100

127 12.6 11.8 17.6

129 10.9 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: 6.826 ppbv

RT: 25.07 min Scan# 6884

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

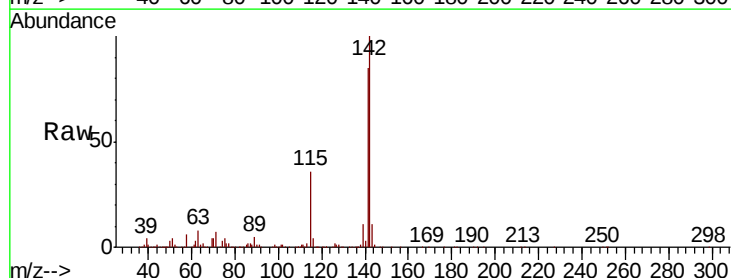
Tgt Ion:142 Resp: 1133271

Ion Ratio Lower Upper

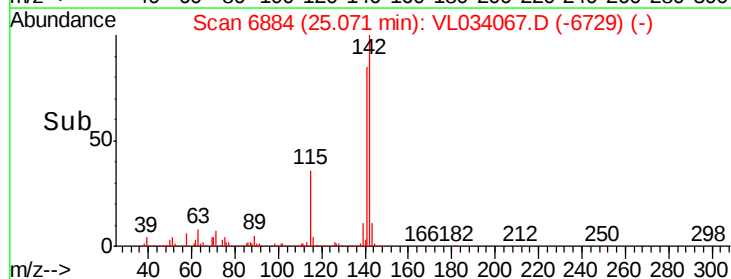
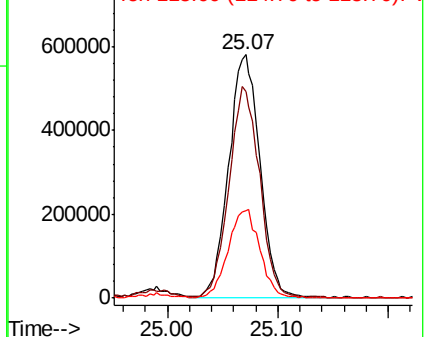
142 100

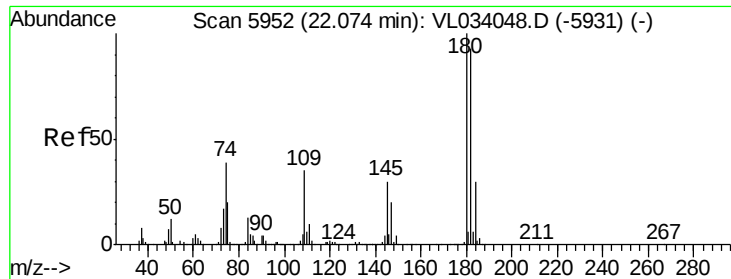
141 85.4 67.6 101.4

115 36.7 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: 8.955 ppbv

RT: 22.07 min Scan# 5952

Delta R.T. -0.00 min

Lab File: VL034067.D

Acq: 30 Jul 2019 17:45

Instrument :

MSVOA_L

ClientSampleId :

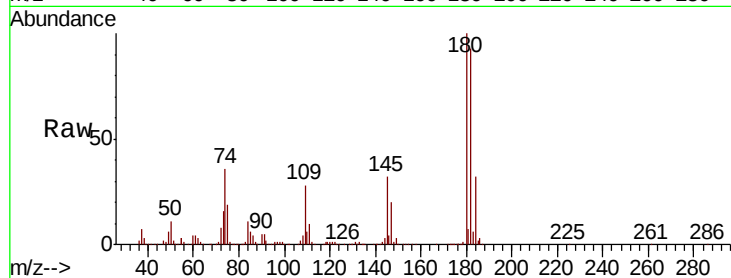
Tot Ion:180 Resp: 2748775

Ion Ratio Lower Upper

180 100

182 96.6 76.5 114.7

184 31.0 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

