

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032310.D
 Acq On : 27 Jul 2018 1:17
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 05:30:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 05:29:53 2018
 QLast Update : Fri Jul 27 05:29:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	2126624	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	4318060	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	5353469	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	4072270	9.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.12	85	663674	1.992	ppbv 98
3) Chlorodifluoromethane	3.06	51	426324	1.795	ppbv 99
4) Chloromethane	3.22	50	260198	1.852	ppbv 97
5) Vinyl Chloride	3.34	62	239382	1.801	ppbv 100
6) Bromomethane	3.57	94	132101	1.835	ppbv 99
7) Chloroethane	3.65	64	85112	1.813	ppbv 97
8) Dichlorotetrafluoroethane	3.27	85	540462	1.853	ppbv 99
9) Propene	3.08	41	193438	1.859	ppbv 100
10) Heptane	8.33	43	718820	2.156	ppbv 99
11) Trichlorofluoromethane	4.06	101	497742	1.785	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.62	101	347907	1.934	ppbv 98
13) Ethanol	3.71	45	47597	1.591	ppbv 93
14) Bromoethene	3.85	108	151229	1.868	ppbv 98
15) Acetone	3.96	43	424782	1.936	ppbv 100
16) 1,3-Butadiene	3.41	39	229857	2.049	ppbv 89
17) tert-Butyl alcohol	4.43	59	117254	1.658	ppbv 99
18) 1,1-Dichloroethene	4.41	96	159852	1.894	ppbv 88
19) Isopropyl Alcohol	4.09	45	232516	1.542	ppbv # 95
20) Methylene Chloride	4.47	84	162660	1.886	ppbv 95
21) Allyl Chloride	4.54	41	271468	1.844	ppbv 98
22) trans-1,2-Dichloroethene	5.03	96	149943	1.727	ppbv 95
23) Vinyl Acetate	5.22	43	726893	1.834	ppbv # 97
24) 1,1-Dichloroethane	5.16	63	539281	1.878	ppbv 99
25) Ethyl Acetate	5.84	43	939620	1.945	ppbv 100
26) Hexane	5.85	57	431742	1.949	ppbv 98
27) Carbon Disulfide	4.68	76	376080	1.914	ppbv 98
28) Methyl tert-Butyl Ether	5.19	73	587009	1.811	ppbv 100
29) Chloroform	5.92	83	607601	1.875	ppbv 92
30) Cyclohexane	7.33	84	333834	1.810	ppbv 90
31) cis-1,2-Dichloroethene	5.71	61	392133	1.840	ppbv 97
32) 1,1,1-Trichloroethane	6.70	97	563148	1.716	ppbv 98
34) 2-Butanone	5.40	43	614157	2.056	ppbv 99
35) Carbon Tetrachloride	7.21	117	553933	1.875	ppbv 99
36) Benzene	7.08	78	837993	1.963	ppbv 97
37) 1,2-Dichloroethane	6.49	62	477415	1.915	ppbv 99
38) Trichloroethene	8.04	130	349044	2.415	ppbv 96
39) 1,2-Dichloropropane	7.82	63	417909	2.373	ppbv 97
40) 1,4-Dioxane	8.06	88	100008	1.932	ppbv # 17
41) Tetrahydrofuran	6.23	42	347118	2.016	ppbv 99
42) Bromodichloromethane	8.00	83	774647	2.348	ppbv 99
43) Methyl Methacrylate	8.22	69	394982	2.254	ppbv 97

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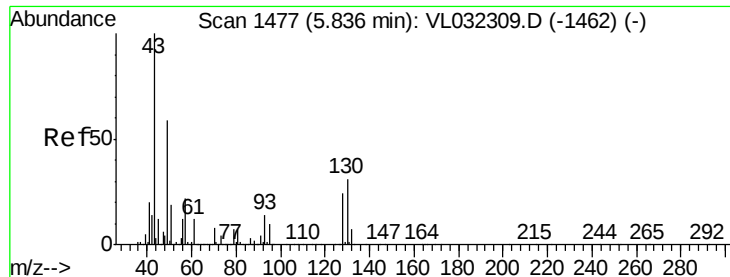
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 05:30:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.07	57	1910335	2.527	ppbv	100
45) t-1,3-Dichloropropene	9.50	75	441988	2.081	ppbv	97
46) cis-1,3-Dichloropropene	8.92	75	551598	2.094	ppbv	95
47) 1,1,2-Trichloroethane	9.70	97	408597	2.228	ppbv	99
48) Dibromochloromethane	10.54	129	600909	2.229	ppbv	99
49) Bromoform	13.29	173	504643	2.148	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	1109117	2.250	ppbv	98
51) 2-Hexanone	10.36	43	840562	2.167	ppbv #	98
52) Tetrachloroethene	11.46	164	305919	2.078	ppbv	94
53) Toluene	10.03	91	1061787	2.054	ppbv	99
54) 1,2-Dibromoethane	10.85	107	575489	2.115	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.36	131	467766	1.972	ppbv #	1
57) Chlorobenzene	12.39	112	878621	2.004	ppbv	99
58) Ethyl Benzene	12.95	91	1476884	1.990	ppbv	96
59) m/p-Xylene	13.23	91	46806	0.073	ppbv #	1
60) o-Xylene	13.94	91	1255116	1.967	ppbv	97
61) Styrene	13.77	104	913687	1.949	ppbv	99
62) Isopropylbenzene	14.91	105	1739499	1.926	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.92	83	985098	1.807	ppbv	99
64) n-propylbenzene	15.81	120	447833	1.933	ppbv	90
65) tert-Butylbenzene	16.99	119	1519283	1.971	ppbv	99
66) Benzyl Chloride	17.24	91	853204	1.977	ppbv	99
67) sec-Butylbenzene	17.54	105	2259718	1.962	ppbv	99
69) p-Isopropyltoluene	17.90	119	1774348	1.990	ppbv	100
70) n-Butylbenzene	18.80	91	2044350	2.054	ppbv	97
71) 2-Chlorotoluene	15.70	91	1373367	1.903	ppbv	99
72) 4-Ethyltoluene	16.08	105	1394533	1.920	ppbv	99
73) 1,3,5-Trimethylbenzene	16.24	105	1368240	1.926	ppbv	99
74) 1,2,4-Trimethylbenzene	17.01	105	1460104	1.955	ppbv	98
75) 1,3-Dichlorobenzene	17.25	146	818109	1.965	ppbv	99
76) 1,4-Dichlorobenzene	17.39	146	778854	1.888	ppbv	100
77) 1,2-Dichlorobenzene	18.07	146	799171	1.980	ppbv	99
78) Hexachloro-1,3-Butadiene	23.63	225	105172	0.793	ppbv #	1
79) Naphthalene	22.51	128	1292962	2.040	ppbv	98
80) Naphthalene, 2-methyl-	25.19	142	511286	1.900	ppbv	99
81) 1,2,4-Trichlorobenzene	22.23	180	384149	1.239	ppbv #	42

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.00 min

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ClientSampleId :

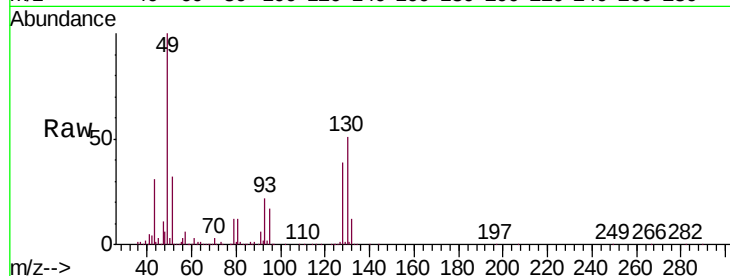
Tot Ion: 49 Resp: 2126624

Ion	Ratio	Lower	Upper
49	100		
128	39.7	20.2	60.6
130	50.5	25.8	77.3

49 100

128 39.7 20.2 60.6

130 50.5 25.8 77.3



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

1500000

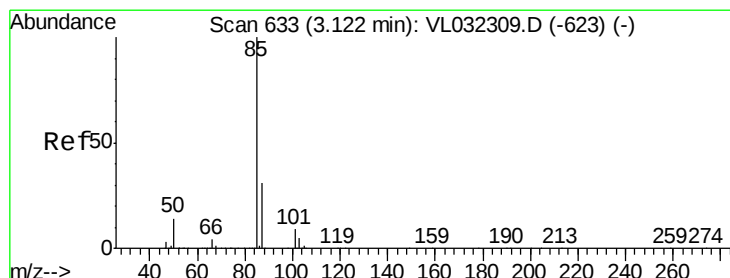
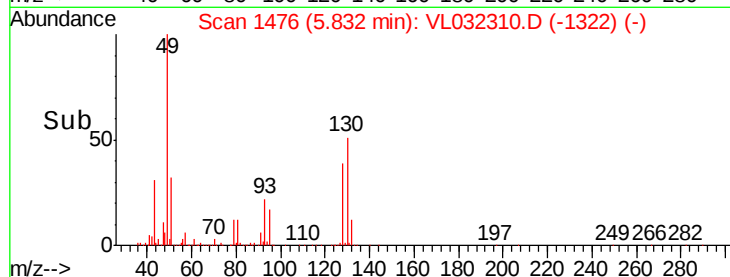
1000000

500000

0

5.75 5.80 5.85 5.90

Time-->



#2

Dichlorodifluoromethane

Concen: 1.992 ppbv

RT: 3.12 min Scan# 633

Delta R.T. -0.00 min

Lab File: VL032310.D

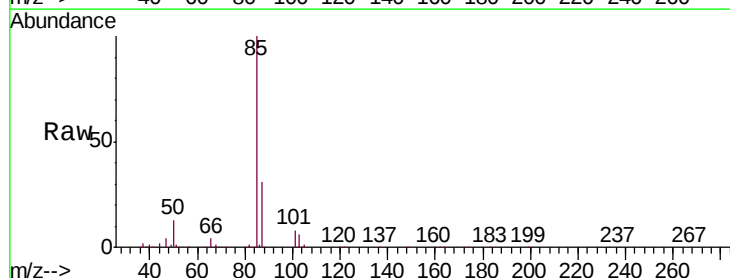
Acq: 27 Jul 2018 1:17

Tgt Ion: 85 Resp: 663674

Ion	Ratio	Lower	Upper
85	100		
87	30.6	25.2	37.8

85 100

87 30.6 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

600000

500000

400000

300000

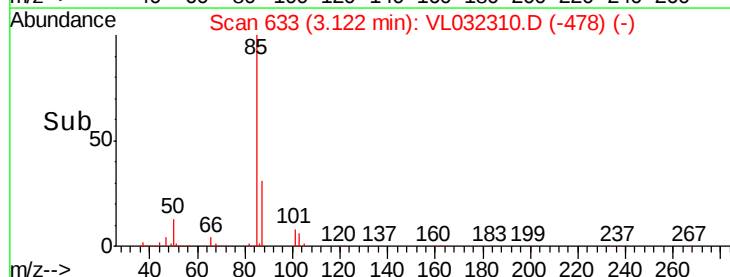
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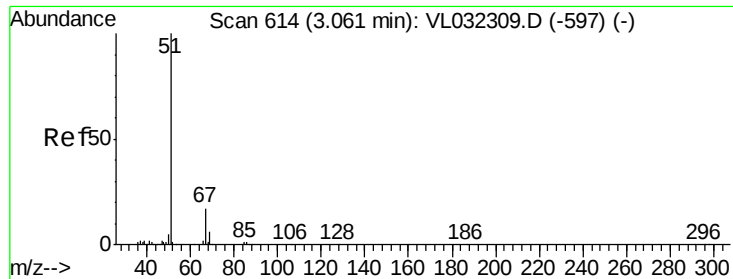
100000

0

3.10 3.15

Time-->

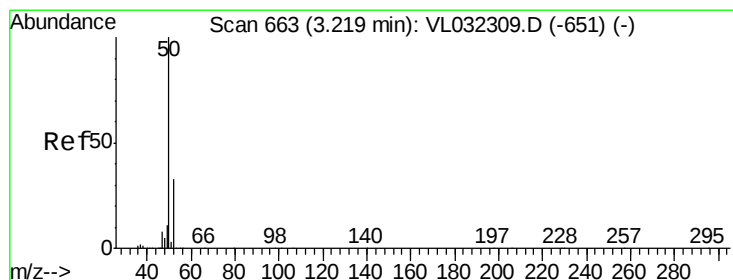
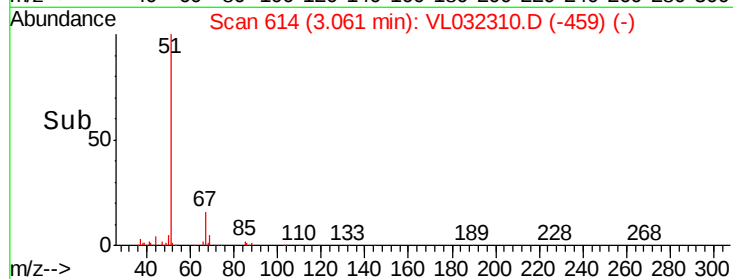
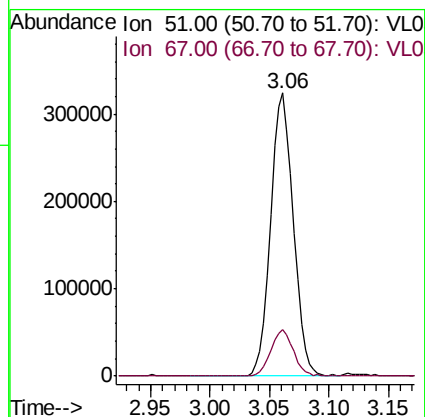
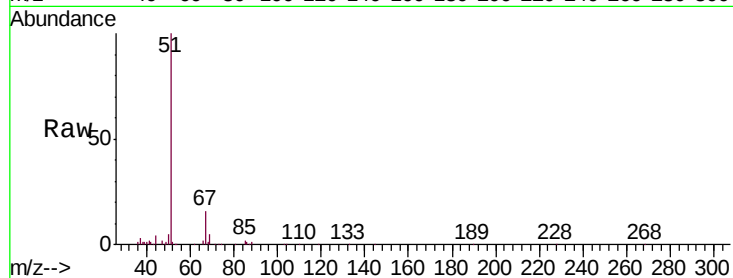




#3
 Chlorodifluoromethane
 Concen: 1.795 ppbv
 RT: 3.06 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

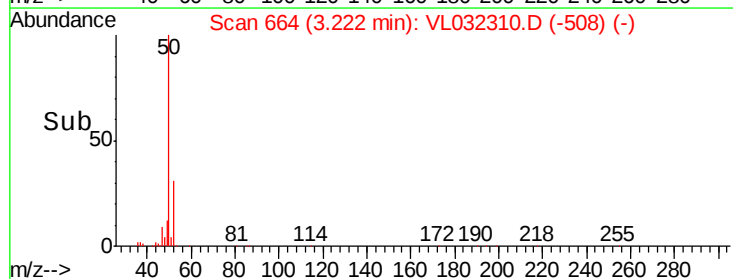
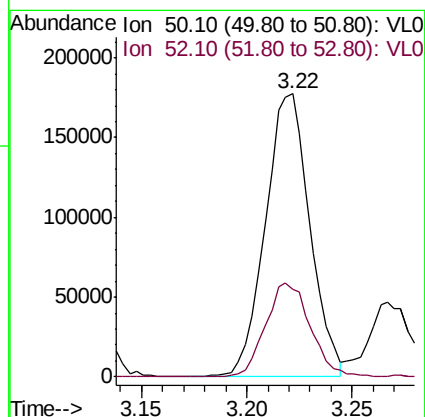
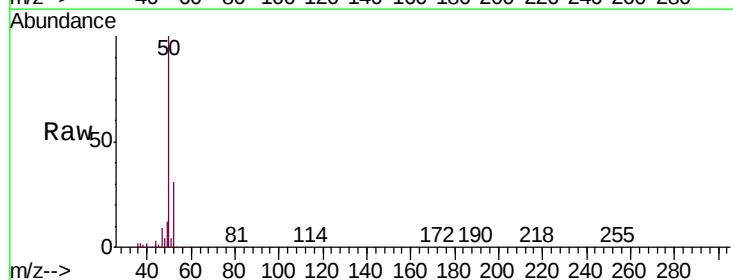
Instrument :
 MSVOA_L
 ClientSampleId :

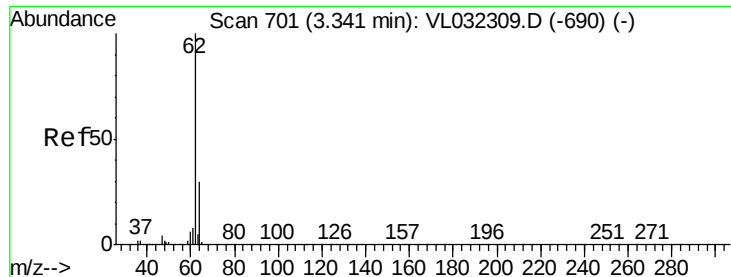
Tot Ion: 51 Resp: 426324
 Ion Ratio Lower Upper
 51 100
 67 16.3 13.5 20.3



#4
 Chloromethane
 Concen: 1.852 ppbv
 RT: 3.22 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Tgt Ion: 50 Resp: 260198
 Ion Ratio Lower Upper
 50 100
 52 30.9 26.2 39.4





#5

Vinyl Chloride

Concen: 1.801 ppbv

RT: 3.34 min Scan# 701

Delta R.T. -0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

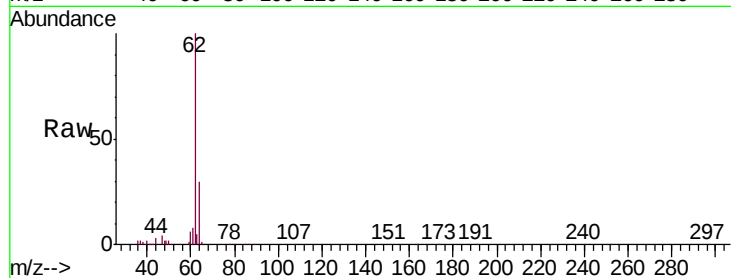
ClientSampleId :

Tot Ion: 62 Resp: 239382

Ion Ratio Lower Upper

62 100

64 30.2 24.1 36.1



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.34

150000

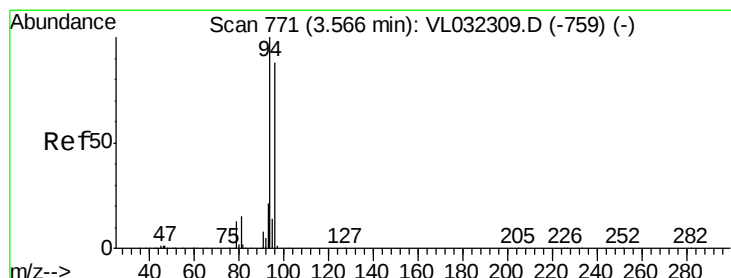
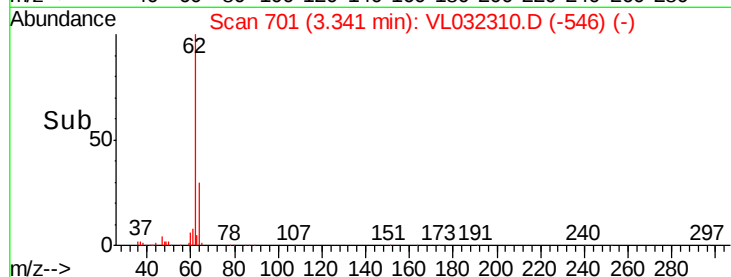
100000

50000

0

Time-->

3.30 3.35 3.40



#6

Bromomethane

Concen: 1.835 ppbv

RT: 3.57 min Scan# 771

Delta R.T. -0.00 min

Lab File: VL032310.D

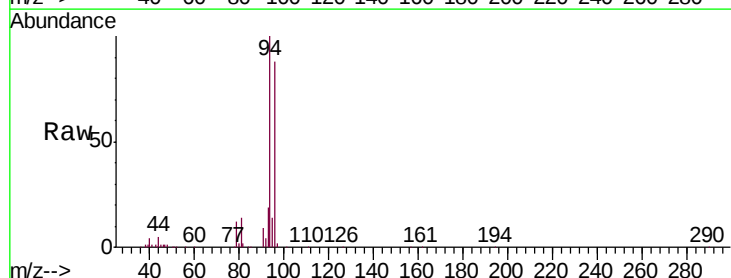
Acq: 27 Jul 2018 1:17

Tgt Ion: 94 Resp: 132101

Ion Ratio Lower Upper

94 100

96 86.9 70.2 105.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.57

100000

80000

60000

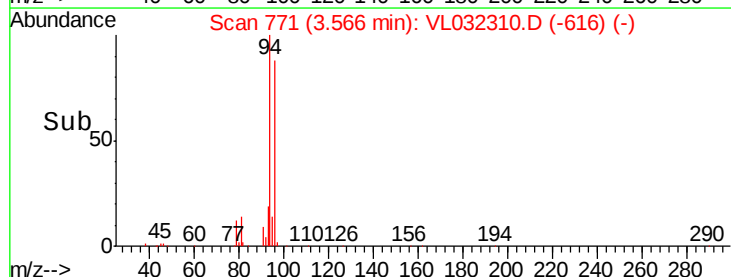
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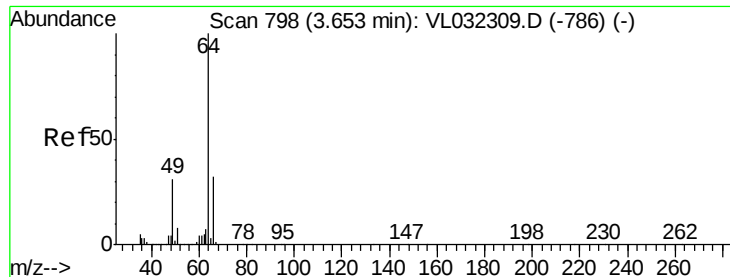
20000

0

Time-->

3.50 3.55 3.60





#7

Chloroethane

Concen: 1.813 ppbv

RT: 3.65 min Scan# 798

Delta R.T. -0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

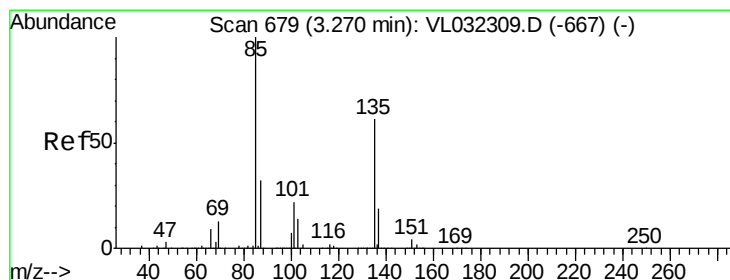
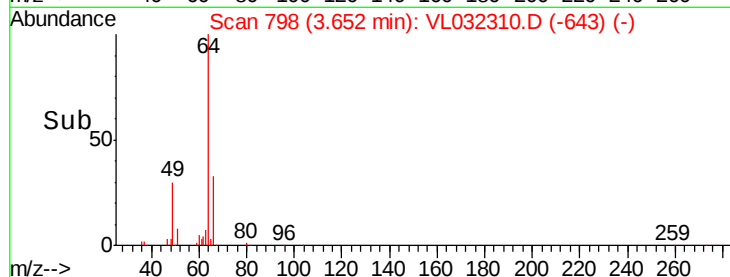
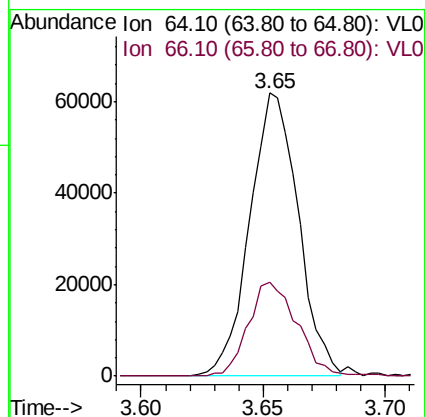
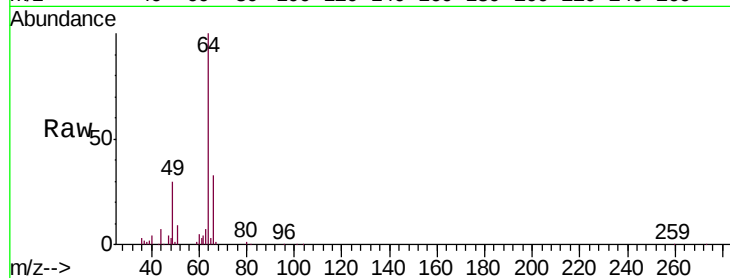
ClientSampleId :

Tot Ion: 64 Resp: 85112

Ion Ratio Lower Upper

64 100

66 34.0 25.7 38.5



#8

Dichlorotetrafluoroethane

Concen: 1.853 ppbv

RT: 3.27 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032310.D

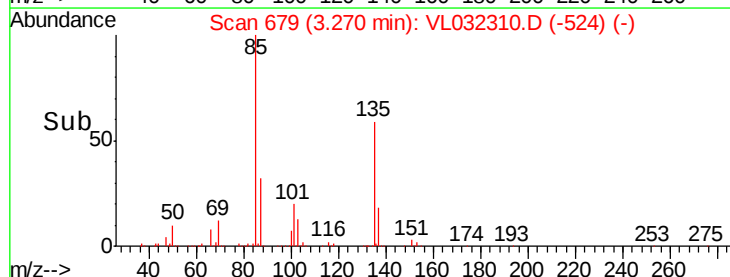
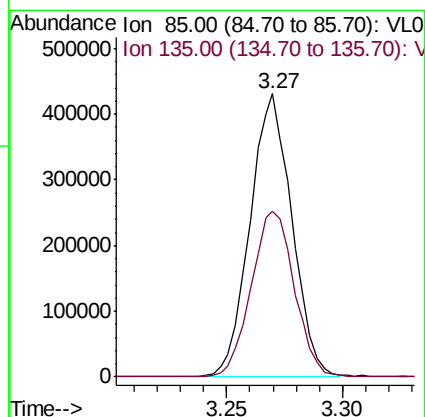
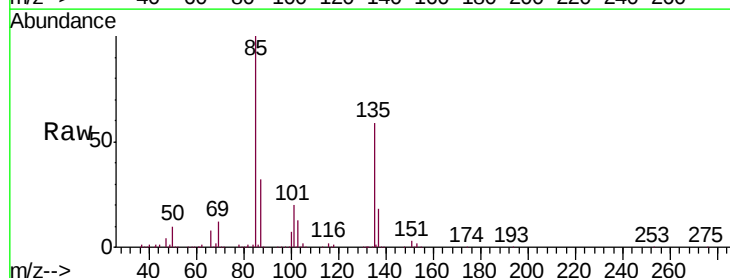
Acq: 27 Jul 2018 1:17

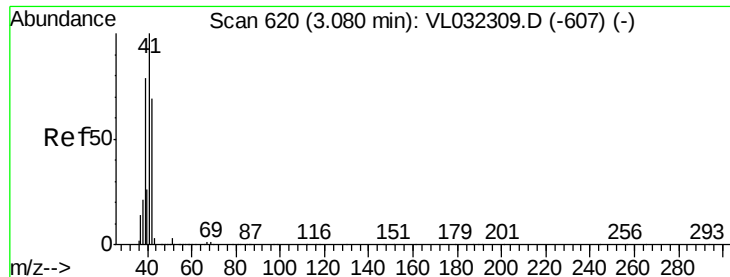
Tgt Ion: 85 Resp: 540462

Ion Ratio Lower Upper

85 100

135 60.5 48.7 73.1





#9

Propene

Concen: 1.859 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

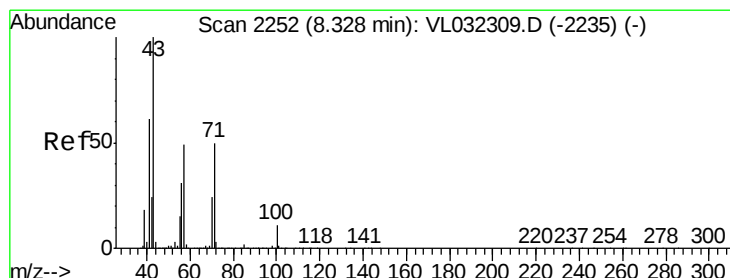
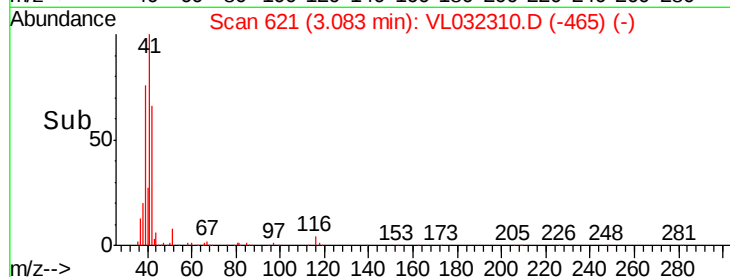
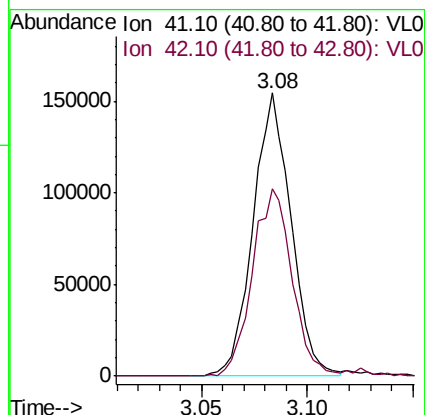
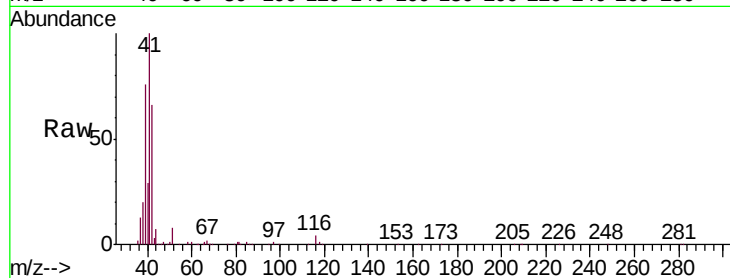
ClientSampleId :

Tot Ion: 41 Resp: 193438

Ion Ratio Lower Upper

41 100

42 70.9 56.8 85.2



#10

Heptane

Concen: 2.156 ppbv

RT: 8.33 min Scan# 2252

Delta R.T. -0.00 min

Lab File: VL032310.D

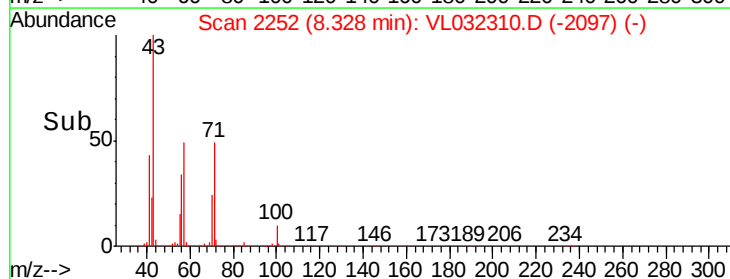
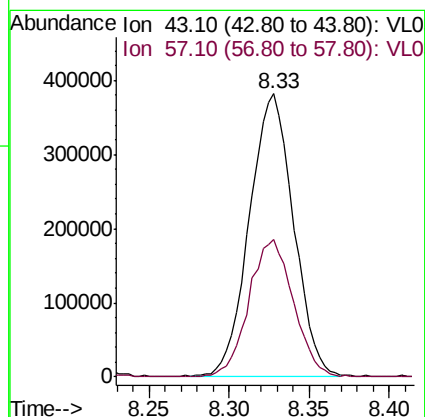
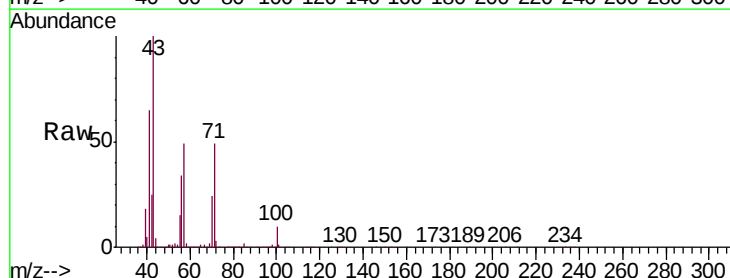
Acq: 27 Jul 2018 1:17

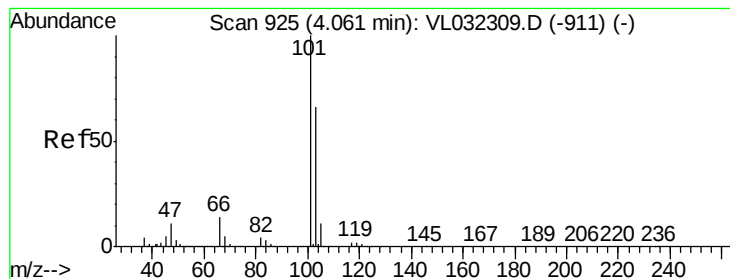
Tgt Ion: 43 Resp: 718820

Ion Ratio Lower Upper

43 100

57 49.4 39.0 58.4





#11

Trichlorofluoromethane

Concen: 1.785 ppbv

RT: 4.06 min Scan# 926

Delta R.T. 0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

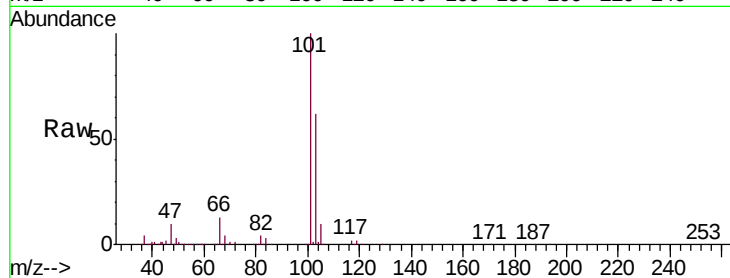
ClientSampleId :

Tot Ion:101 Resp: 497742

Ion Ratio Lower Upper

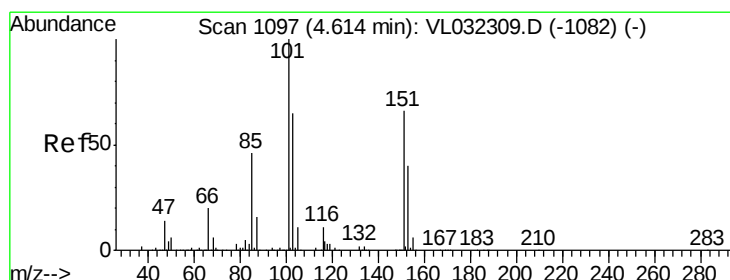
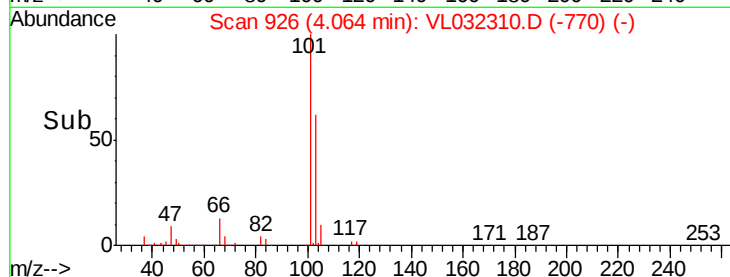
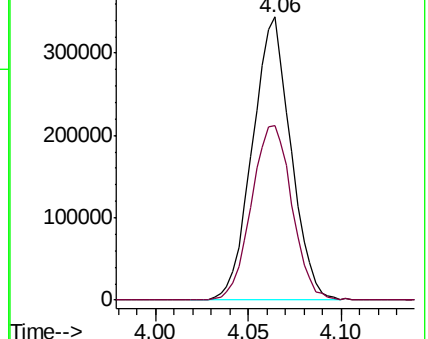
101 100

103 61.7 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.934 ppbv

RT: 4.62 min Scan# 1098

Delta R.T. 0.00 min

Lab File: VL032310.D

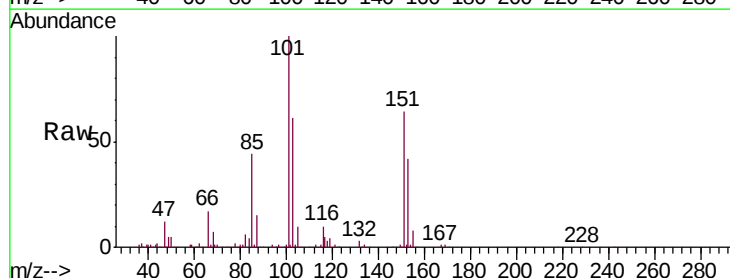
Acq: 27 Jul 2018 1:17

Tgt Ion:101 Resp: 347907

Ion Ratio Lower Upper

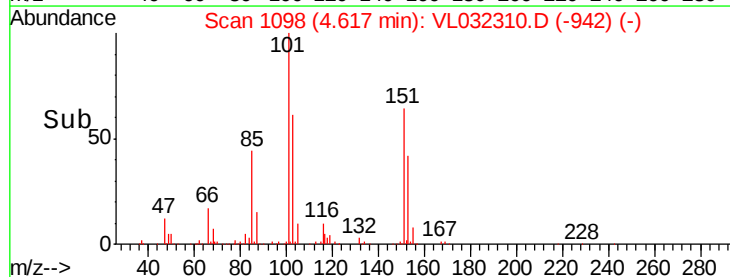
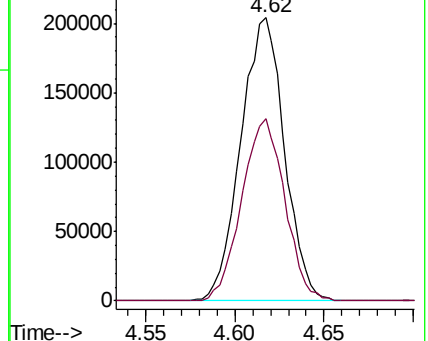
101 100

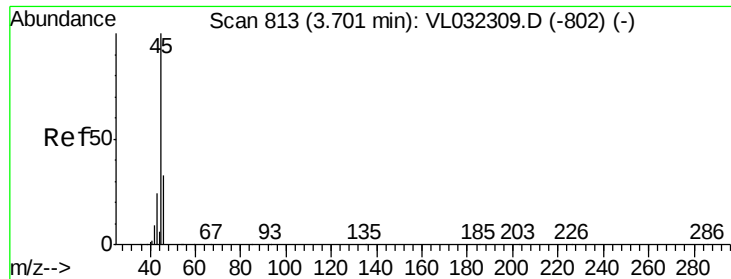
151 63.9 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

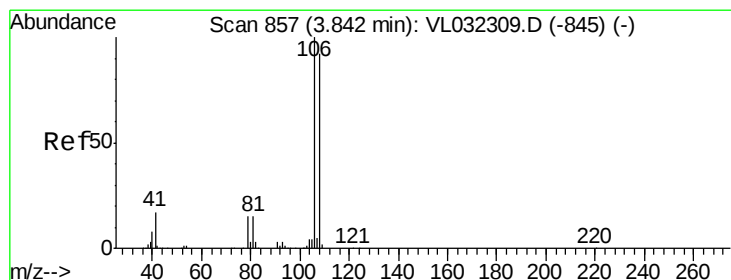
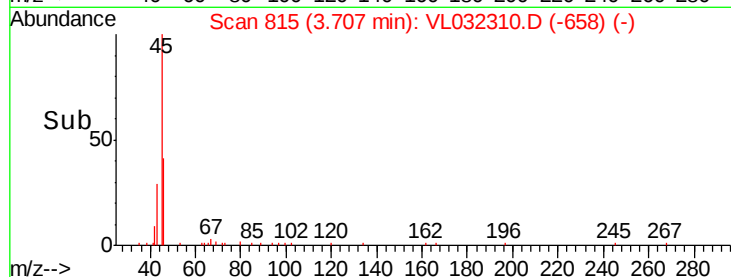
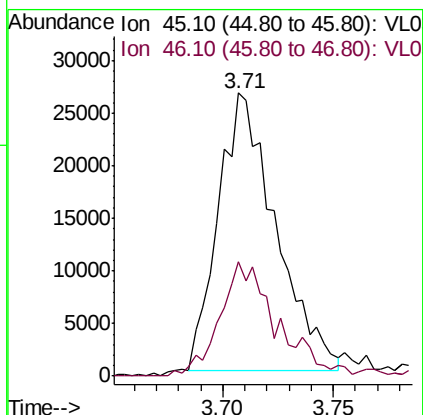
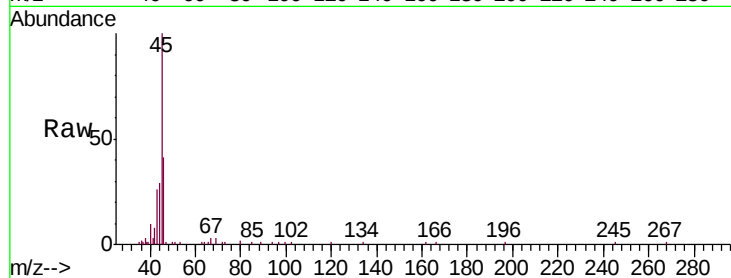




#13
Ethanol
Concen: 1.591 ppbv
RT: 3.71 min Scan# 815
Delta R.T. 0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

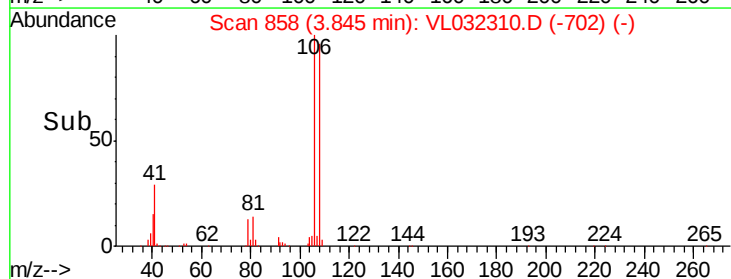
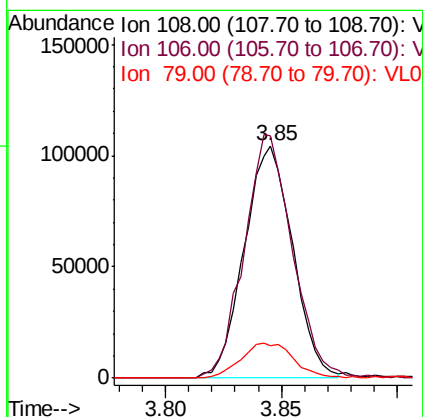
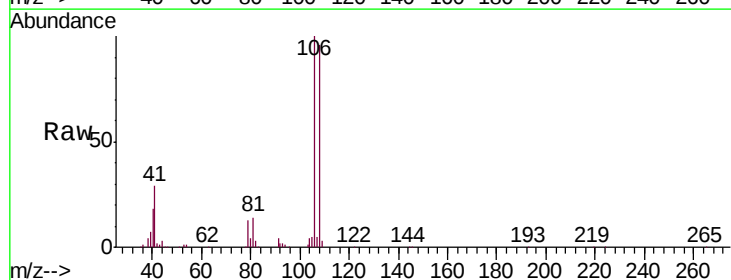
Instrument :
MSVOA_L
ClientSampleId :

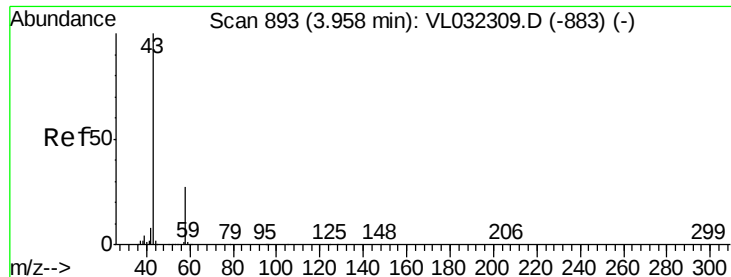
Tot Ion: 45 Resp: 47597
Ion Ratio Lower Upper
45 100
46 42.1 15.2 60.6



#14
Bromoethene
Concen: 1.868 ppbv
RT: 3.85 min Scan# 858
Delta R.T. 0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion: 108 Resp: 151229
Ion Ratio Lower Upper
108 100
106 105.2 86.0 129.0
79 17.2 12.8 19.2

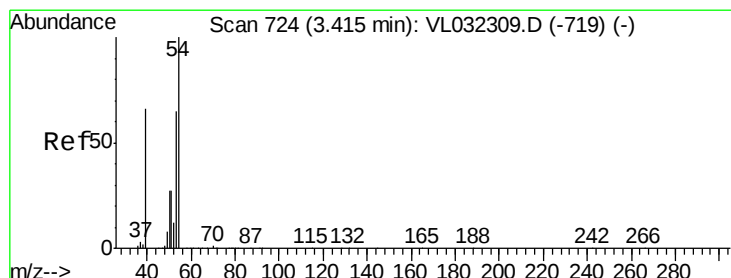
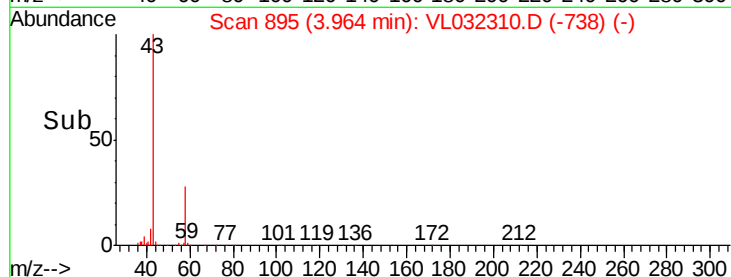
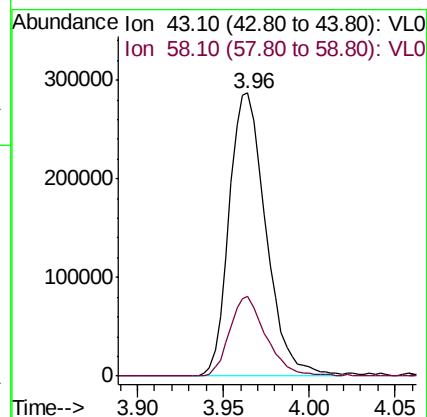
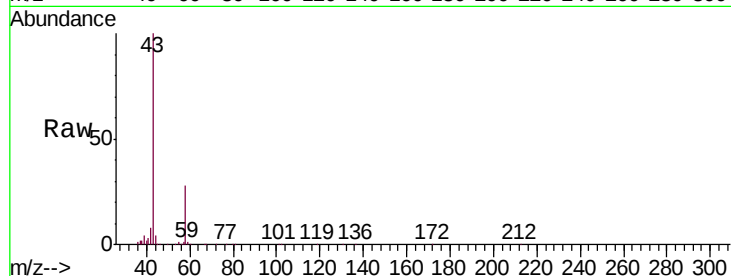




#15
Acetone
Concen: 1.936 ppbv
RT: 3.96 min Scan# 895
Delta R.T. 0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

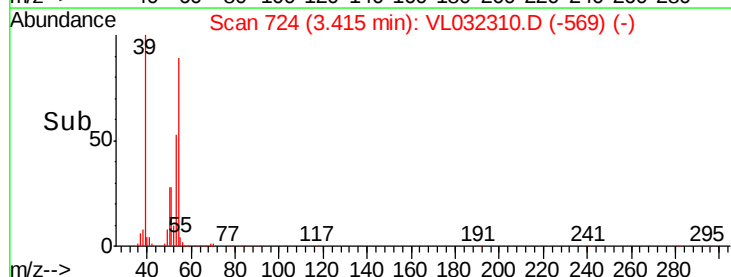
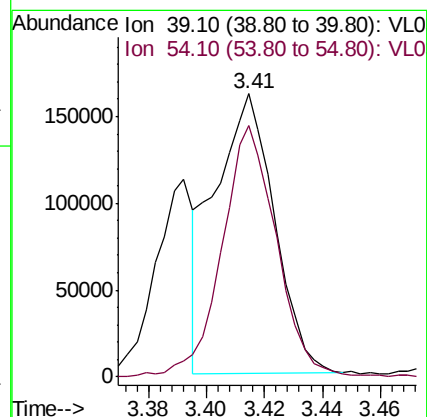
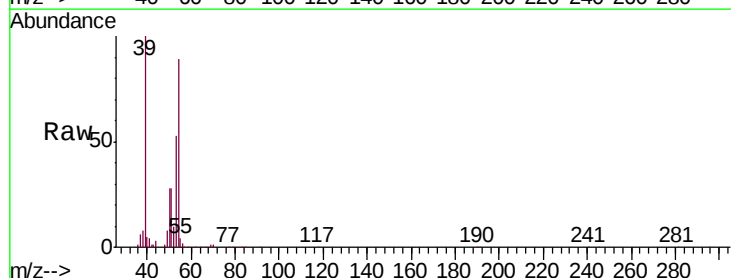
Instrument :
MSVOA_L
ClientSampleId :

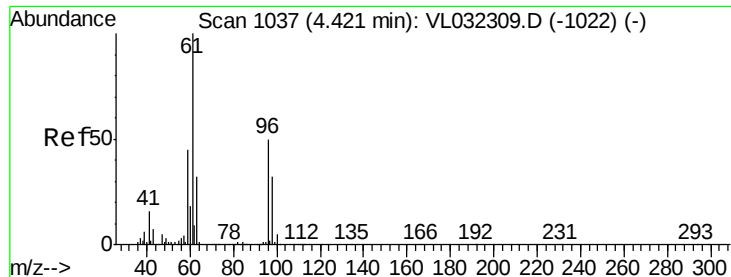
Tot Ion: 43 Resp: 424782
Ion Ratio Lower Upper
43 100
58 28.2 22.5 33.7



#16
1,3-Butadiene
Concen: 2.049 ppbv
RT: 3.41 min Scan# 724
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion: 39 Resp: 229857
Ion Ratio Lower Upper
39 100
54 82.7 74.3 111.5

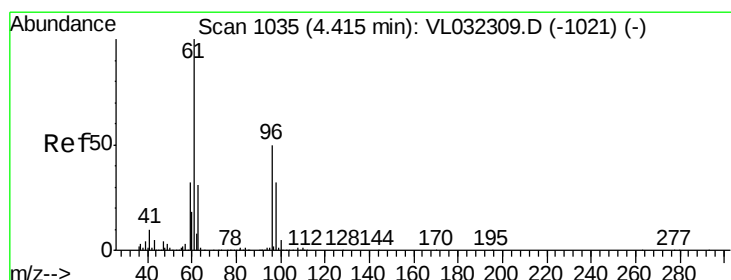
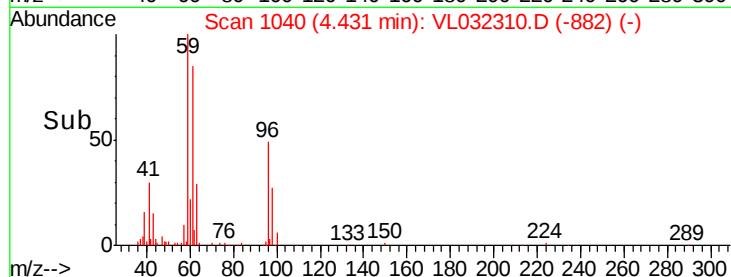
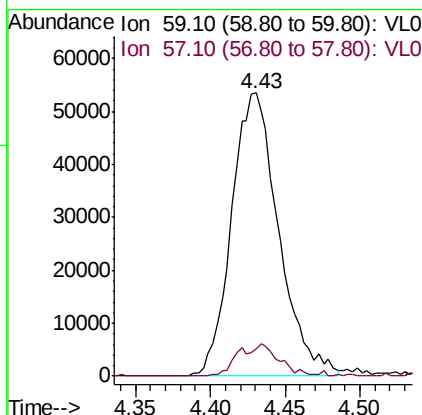
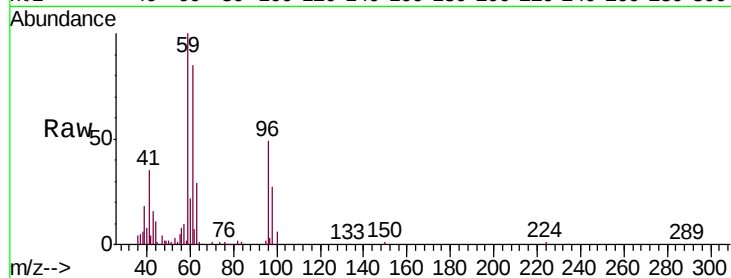




#17
tert-Butyl alcohol
Concen: 1.658 ppbv
RT: 4.43 min Scan# 1040
Delta R.T. 0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

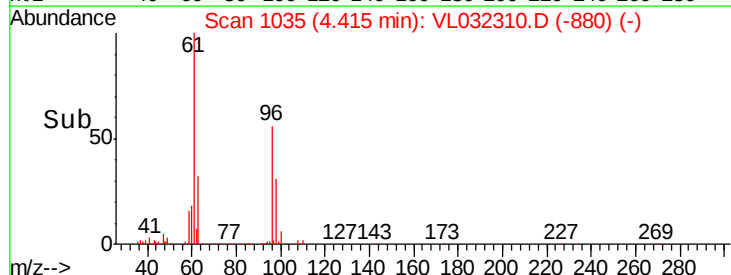
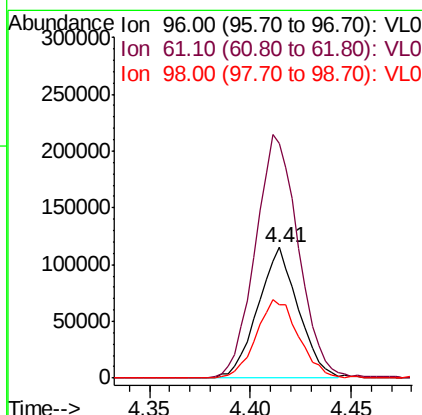
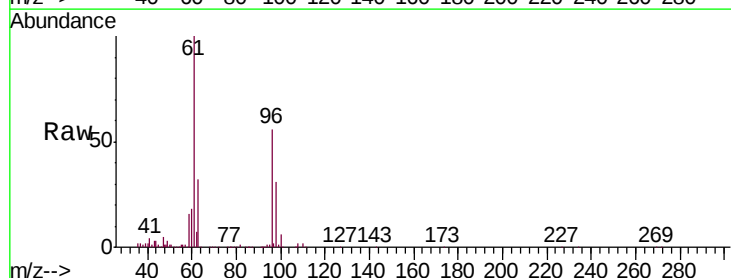
Instrument :
MSVOA_L
ClientSampleId :

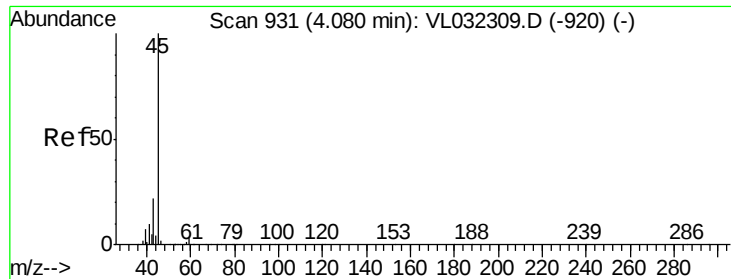
Tot Ion: 59 Resp: 117254
Ion Ratio Lower Upper
59 100
57 10.2 8.0 12.0



#18
1,1-Dichloroethene
Concen: 1.894 ppbv
RT: 4.41 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion: 96 Resp: 159852
Ion Ratio Lower Upper
96 100
61 179.9 159.0 238.4
98 56.5 51.1 76.7

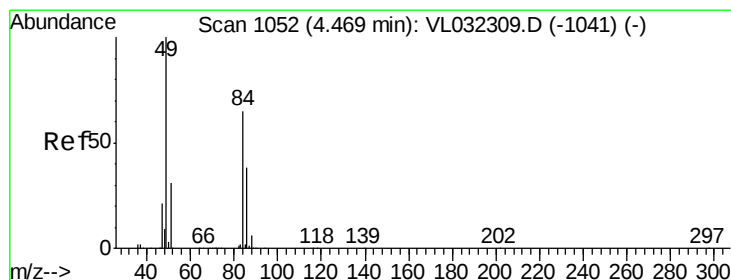
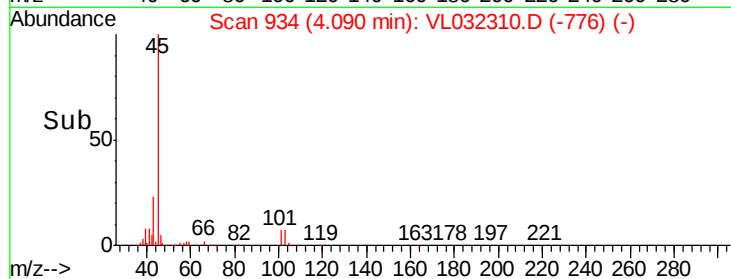
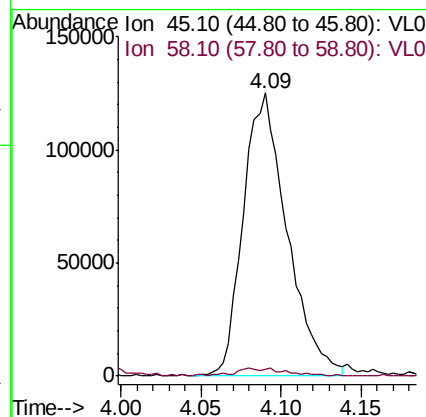
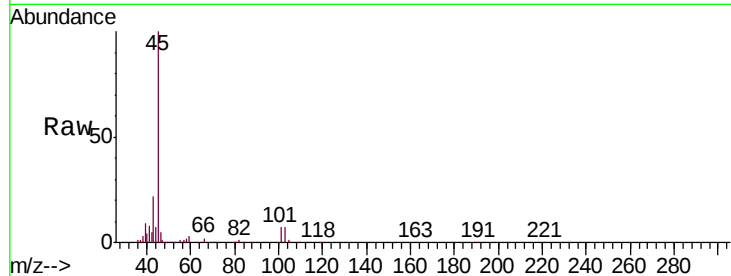




#19
Isopropyl Alcohol
Concen: 1.542 ppbv
RT: 4.09 min Scan# 934
Delta R.T. 0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

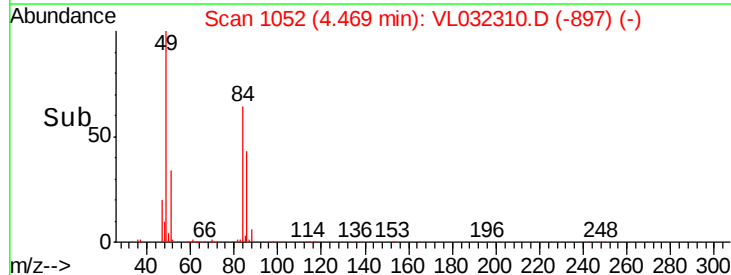
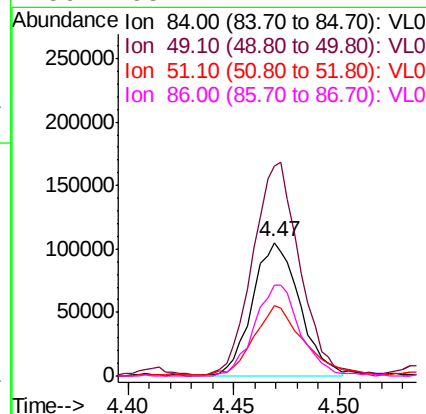
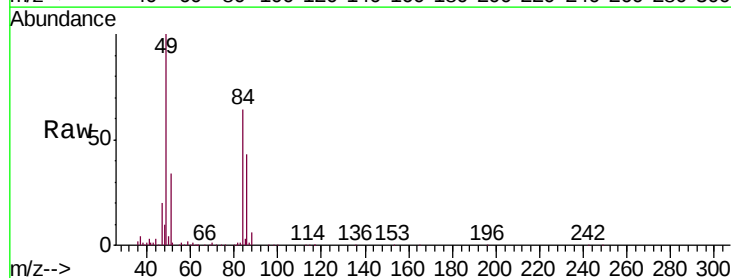
Instrument :
MSVOA_L
ClientSampled :

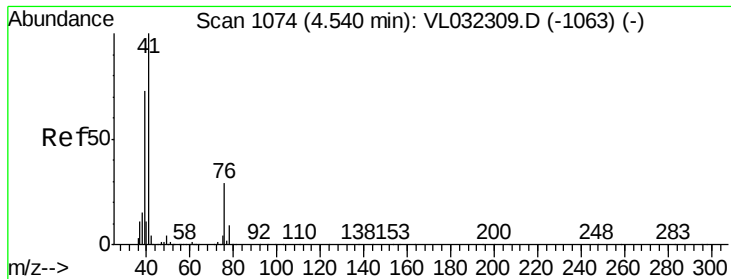
Tot Ion: 45 Resp: 232516
Ion Ratio Lower Upper
45 100
58 3.7 1.5 2.3#



#20
Methylene Chloride
Concen: 1.886 ppbv
RT: 4.47 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion: 84 Resp: 162660
Ion Ratio Lower Upper
84 100
49 156.3 123.4 185.0
51 52.5 38.2 57.2
86 68.2 47.4 71.2

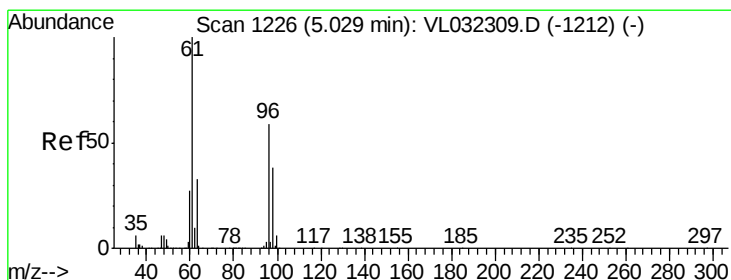
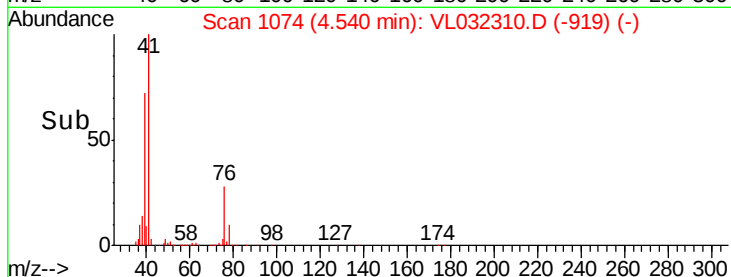
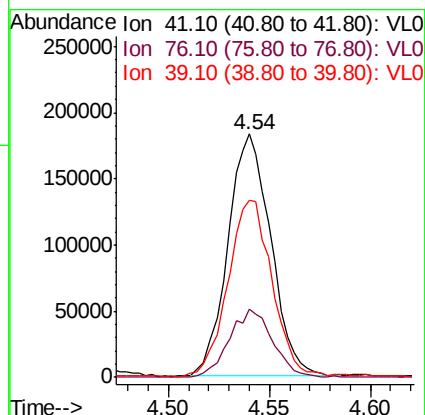
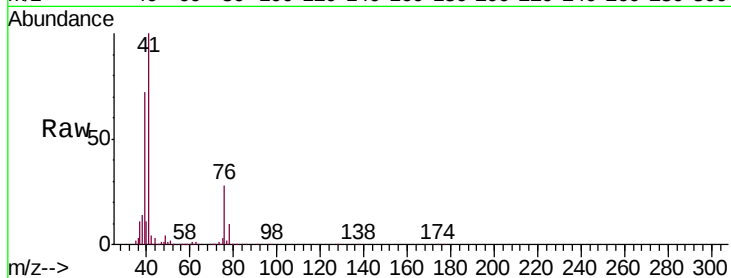




#21
Allvl Chloride
Concen: 1.844 ppbv
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

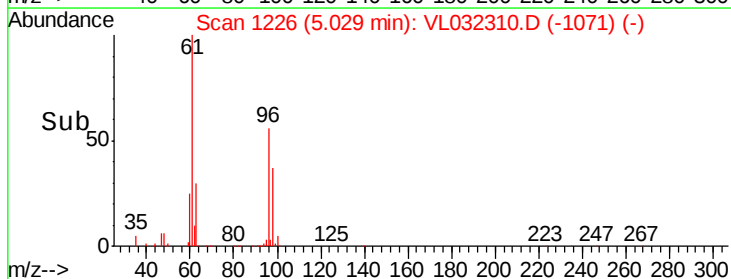
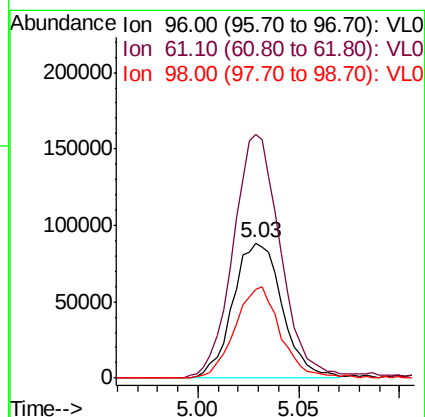
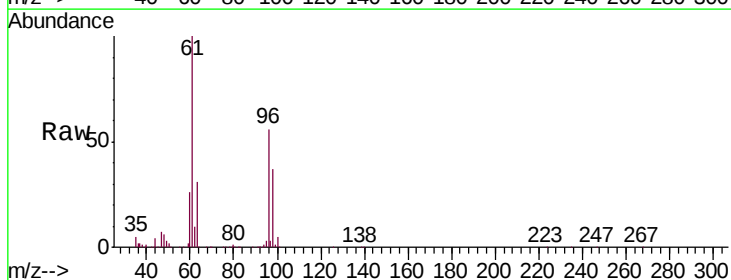
Instrument :
MSVOA_L
ClientSampleId :

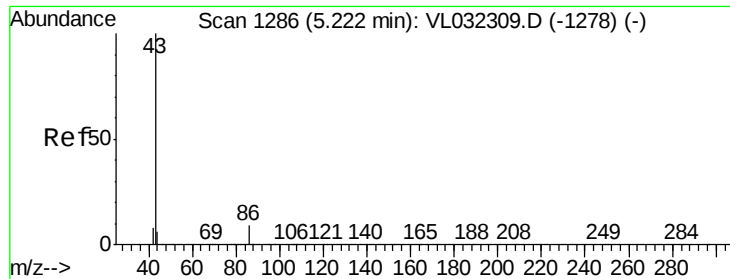
Tot Ion: 41 Resp: 271468
Ion Ratio Lower Upper
41 100
76 28.8 23.1 34.7
39 75.0 58.2 87.2



#22
trans-1,2-Dichloroethene
Concen: 1.727 ppbv
RT: 5.03 min Scan# 1226
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion: 96 Resp: 149943
Ion Ratio Lower Upper
96 100
61 178.6 136.5 204.7
98 65.9 51.3 76.9

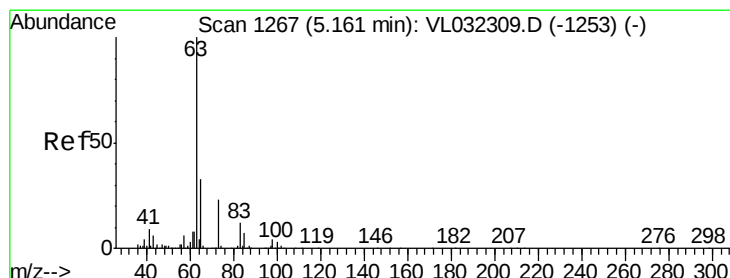
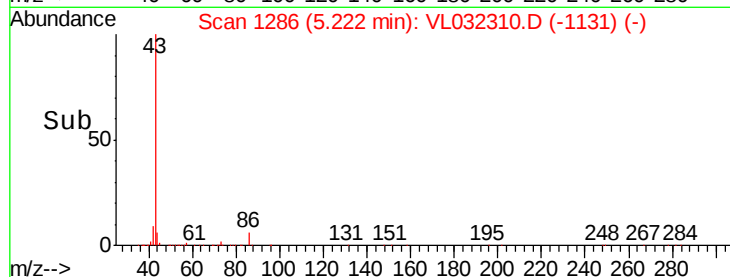
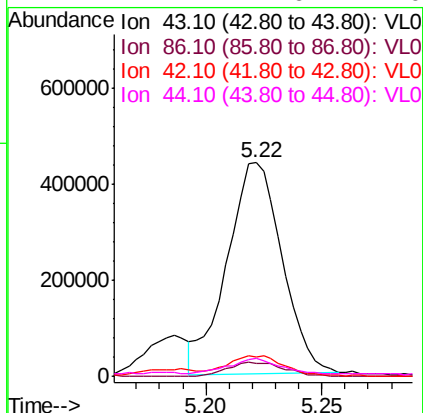
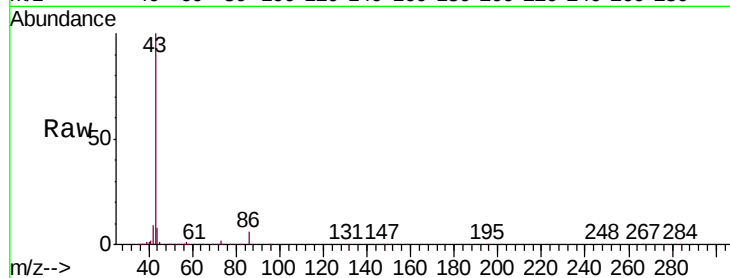




#23
 Vinyl Acetate
 Concen: 1.834 ppbv
 RT: 5.22 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

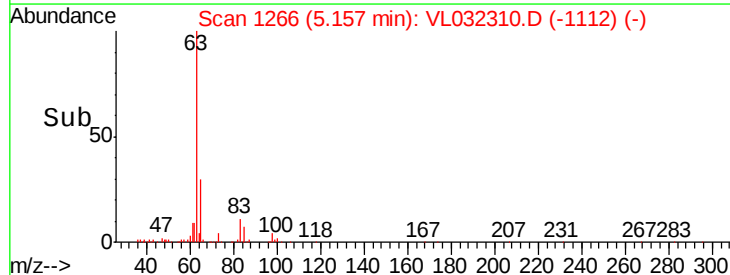
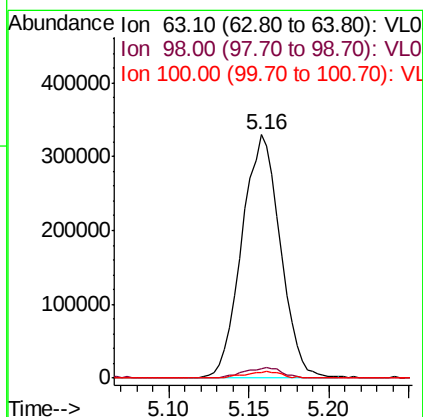
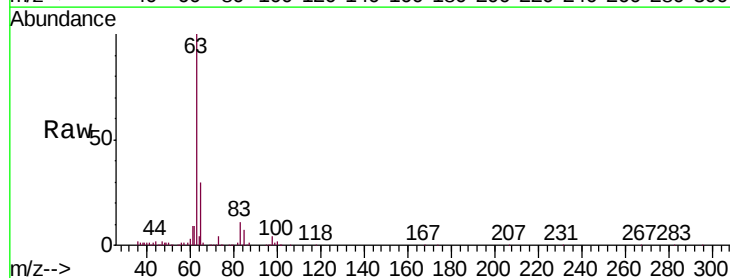
Instrument :
 MSVOA_L
 ClientSampleId :

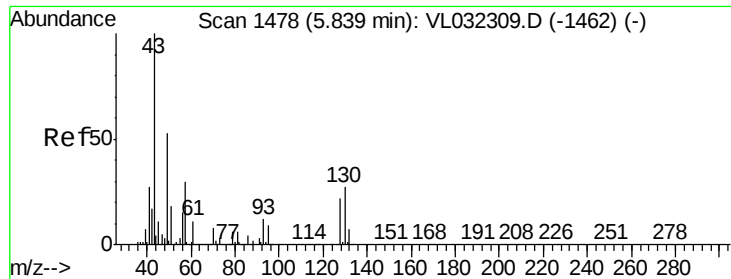
Tot Ion:	43	Resp:	726893
Ion	Ratio	Lower	Upper
43	100		
86	6.4	6.3	9.5
42	9.0	7.0	10.4
44	7.2	4.6	7.0#



#24
 1,1-Dichloroethane
 Concen: 1.878 ppbv
 RT: 5.16 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Tgt Ion:	63	Resp:	539281
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.1	6.5
100	2.2	1.3	3.8

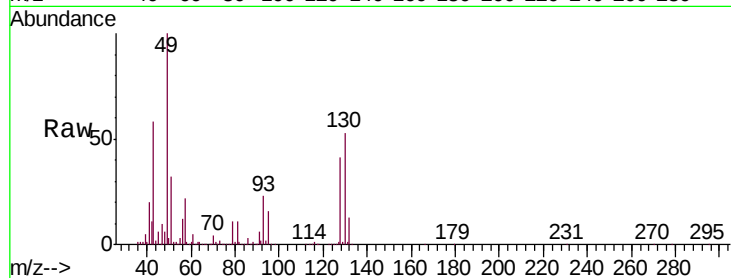




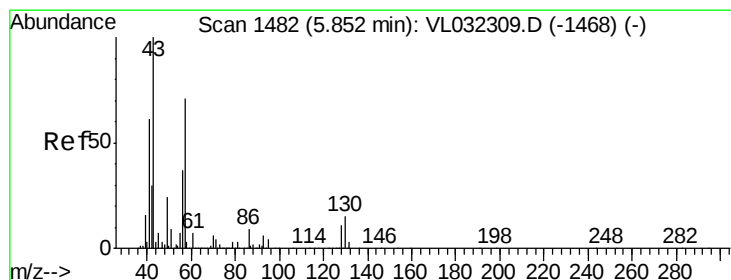
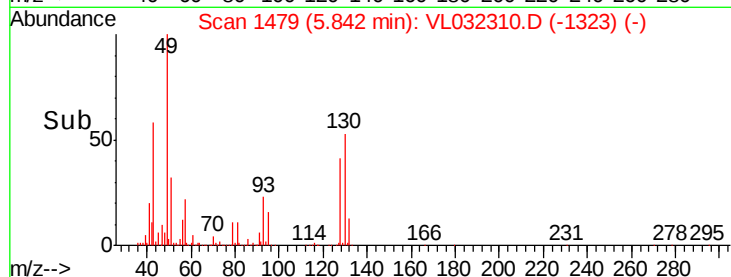
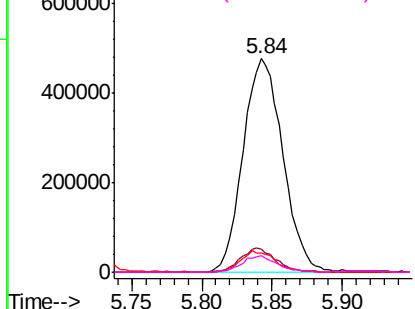
#25
Ethyl Acetate
Concen: 1.945 ppbv
RT: 5.84 min Scan# 1479
Delta R.T. 0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	939620
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.1	12.1
61	9.1	7.4	11.0
70	6.8	5.6	8.4

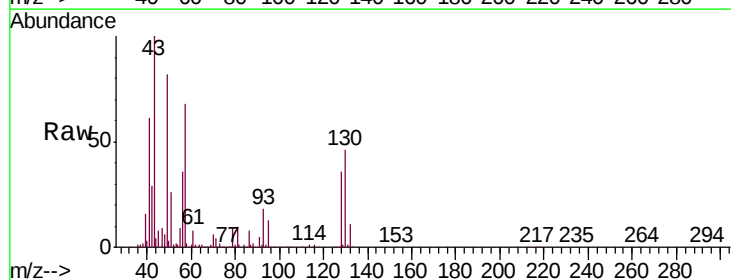


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

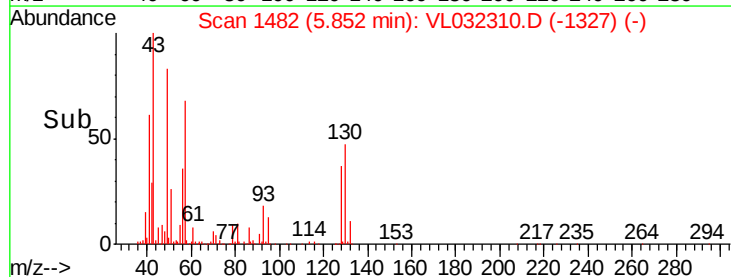
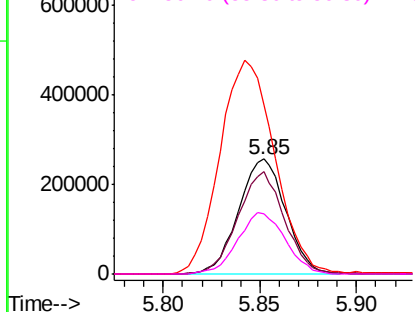


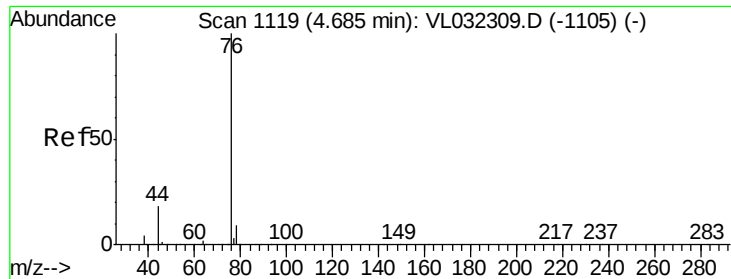
#26
Hexane
Concen: 1.949 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion:	57	Resp:	431742
Ion	Ratio	Lower	Upper
57	100		
41	88.7	68.1	102.1
43	219.1	177.4	266.2
56	54.5	41.9	62.9



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: 1.914 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. -0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

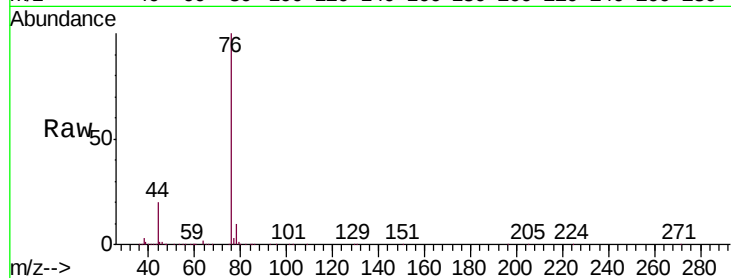
Tot Ion: 76 Resp: 376080

Ion Ratio Lower Upper

76 100

44 18.8 14.0 21.0

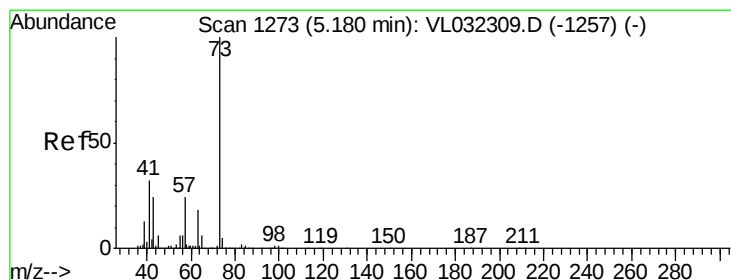
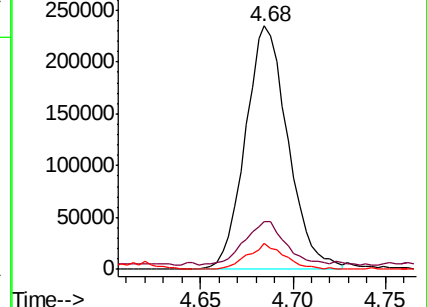
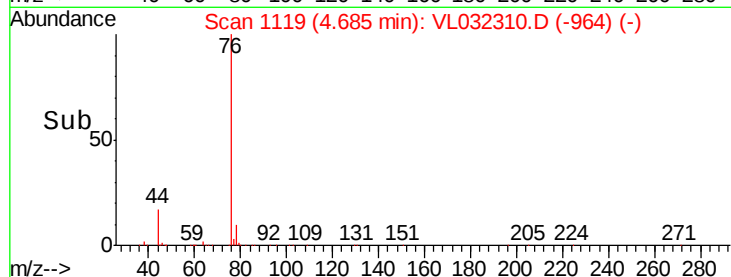
78 9.6 7.5 11.3



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: 1.811 ppbv

RT: 5.19 min Scan# 1275

Delta R.T. 0.01 min

Lab File: VL032310.D

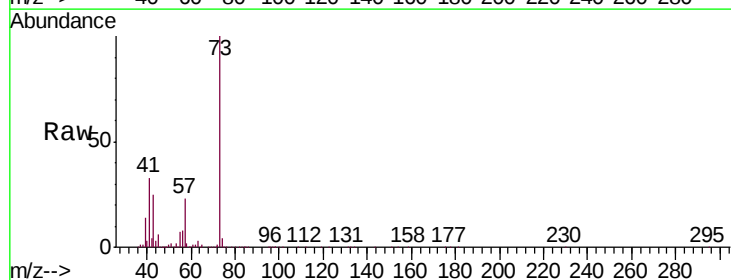
Acq: 27 Jul 2018 1:17

Tgt Ion: 73 Resp: 587009

Ion Ratio Lower Upper

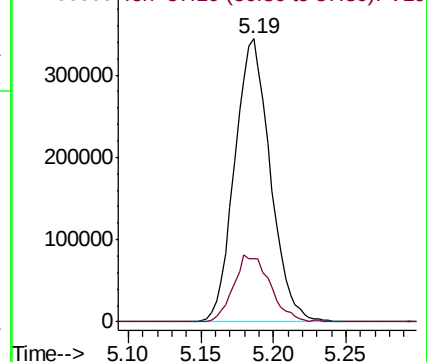
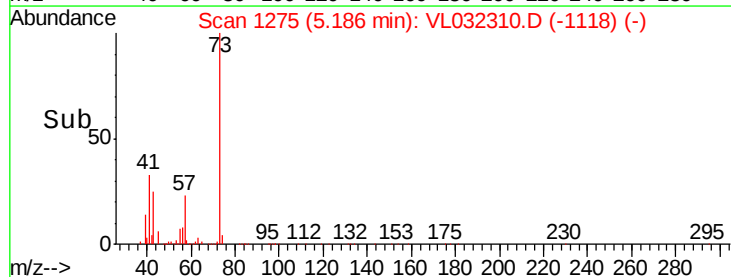
73 100

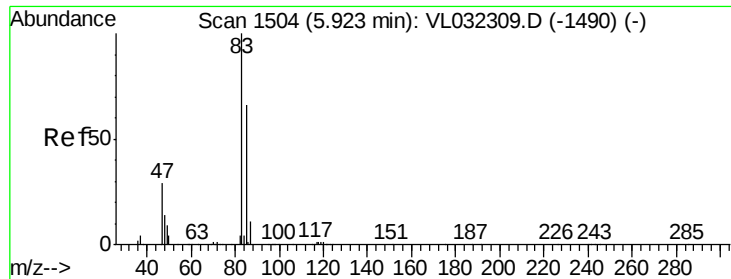
57 24.3 19.4 29.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

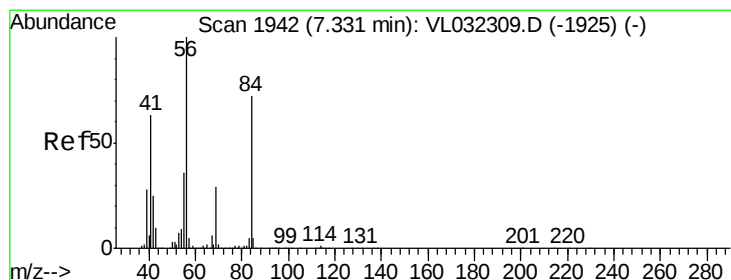
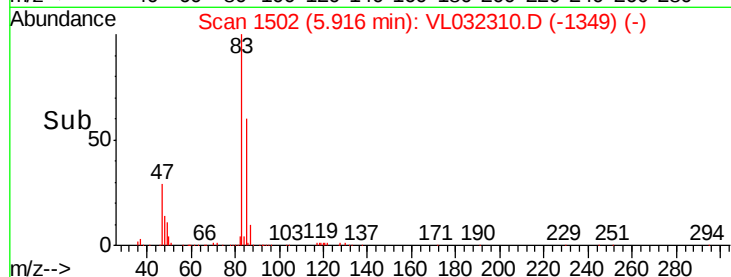
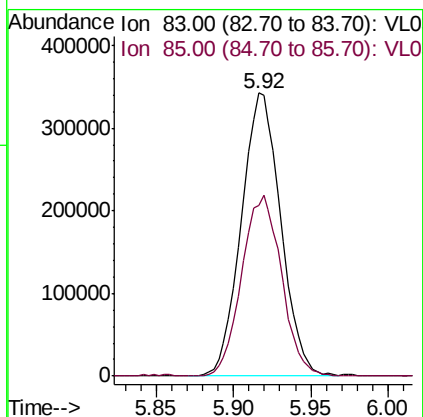
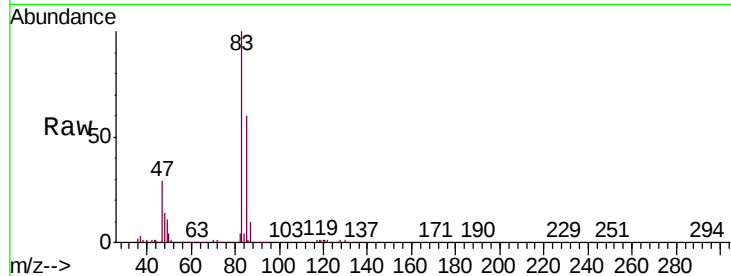




#29
Chloroform
Concen: 1.875 ppbv
RT: 5.92 min Scan# 1502
Delta R.T. -0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

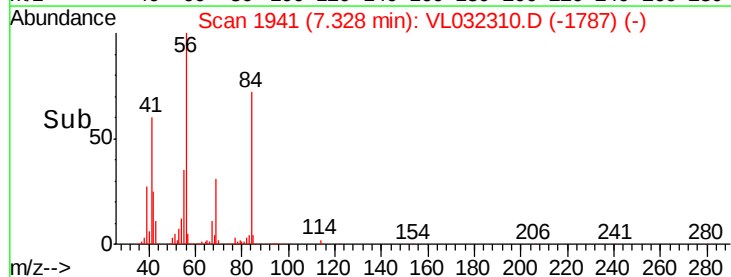
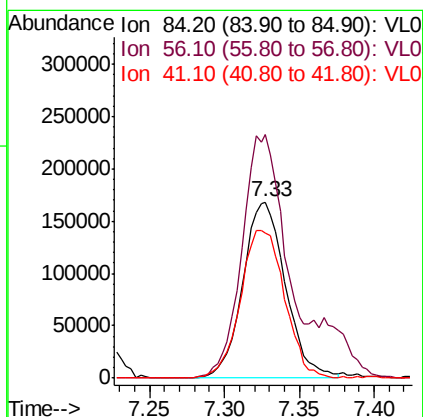
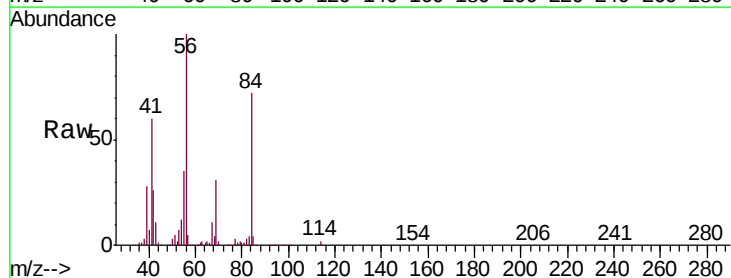
Instrument :
MSVOA_L
ClientSampleId :

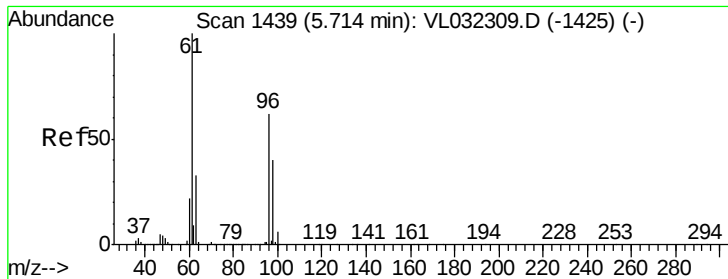
Tot Ion: 83 Resp: 607601
Ion Ratio Lower Upper
83 100
85 60.0 52.9 79.3



#30
Cyclohexane
Concen: 1.810 ppbv
RT: 7.33 min Scan# 1941
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion: 84 Resp: 333834
Ion Ratio Lower Upper
84 100
56 165.9 116.8 175.2
41 87.1 70.0 105.0

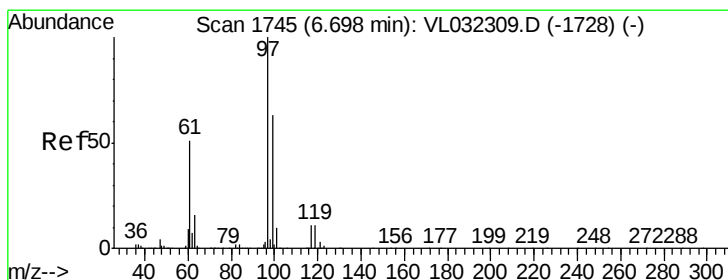
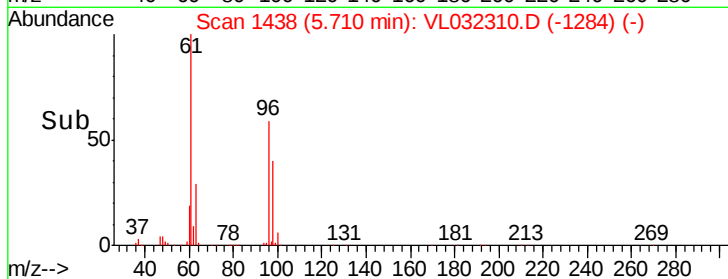
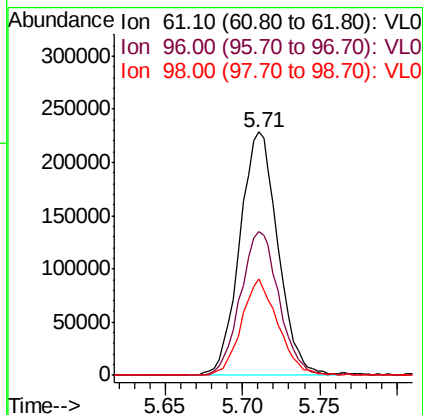
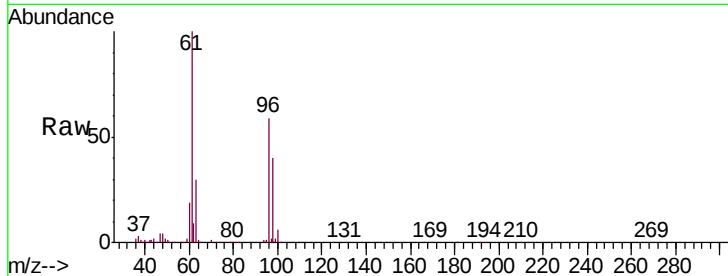




#31
 cis-1,2-Dichloroethene
 Concen: 1.840 ppbv
 RT: 5.71 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

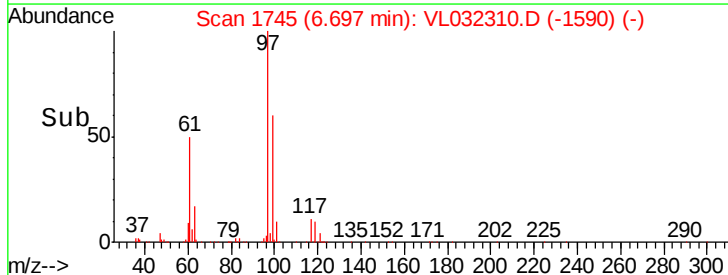
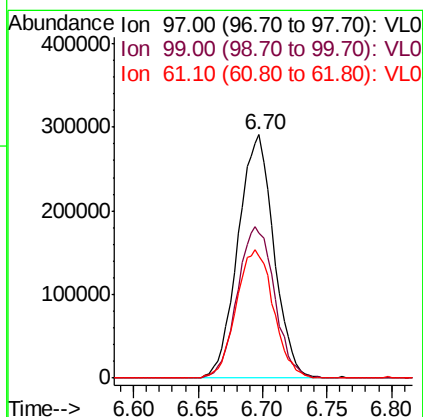
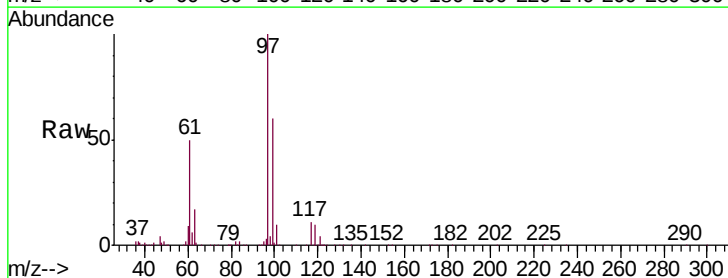
Instrument :
 MSVOA_L
 ClientSampleId :

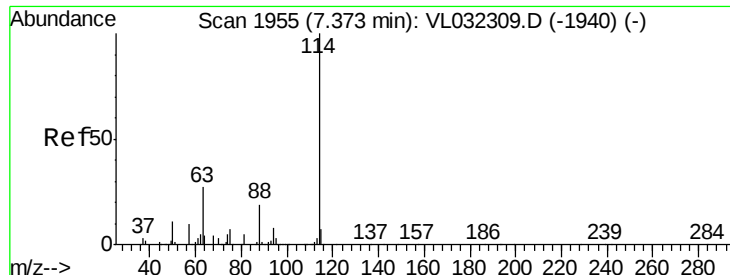
Tot Ion	Ratio	Lower	Upper
61	100		
96	58.8	49.8	74.6
98	39.8	31.8	47.6



#32
 1,1,1-Trichloroethane
 Concen: 1.716 ppbv
 RT: 6.70 min Scan# 1745
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.9	76.3
61	55.0	41.8	62.6

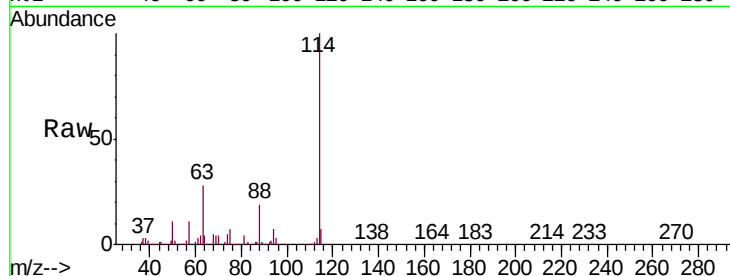




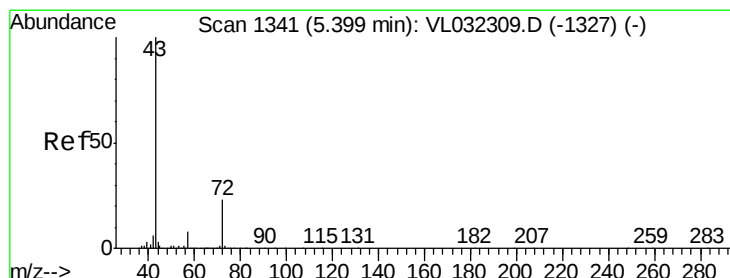
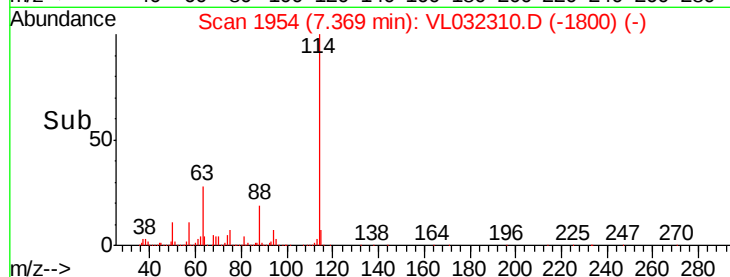
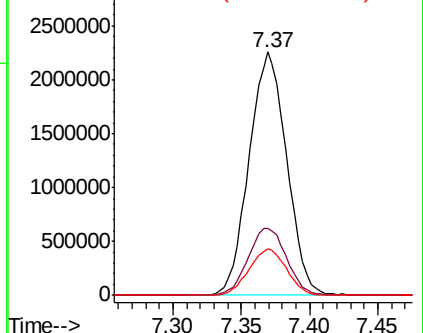
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4318060
 Ion Ratio Lower Upper
 114 100
 63 28.4 22.4 33.6
 88 19.1 15.3 22.9

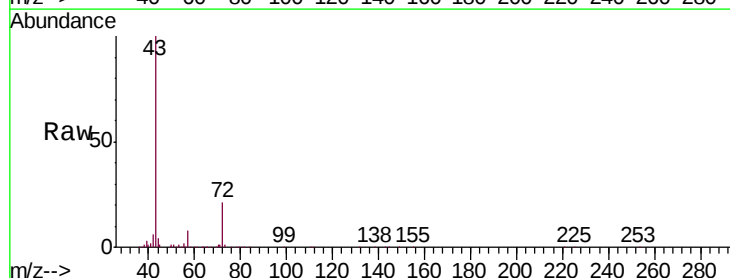


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

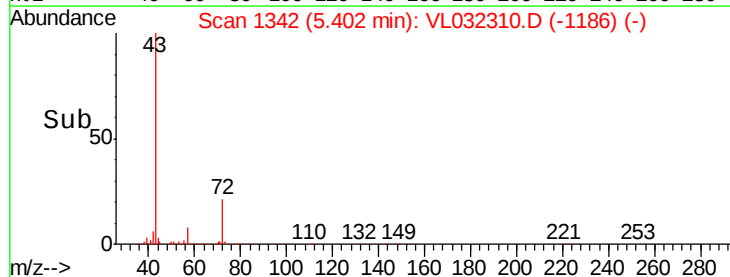
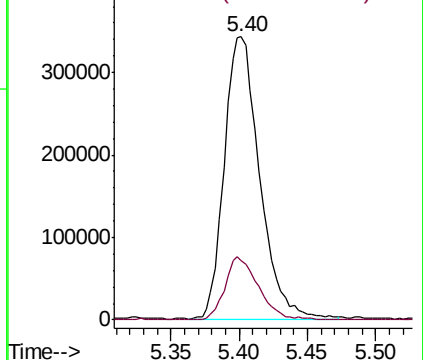


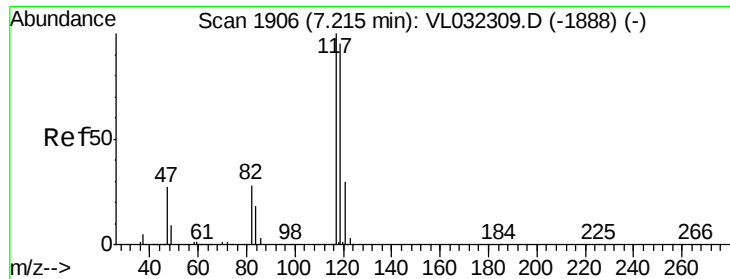
#34
 2-Butanone
 Concen: 2.056 ppbv
 RT: 5.40 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Tgt Ion: 43 Resp: 614157
 Ion Ratio Lower Upper
 43 100
 72 21.5 17.4 26.2



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

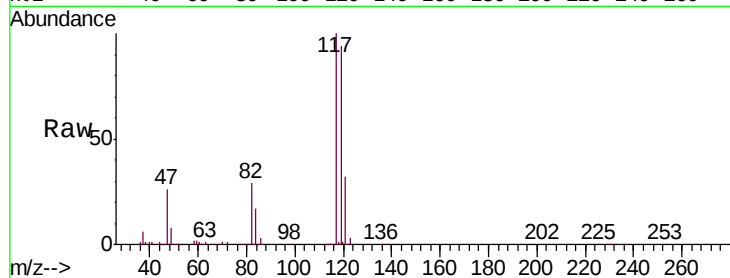




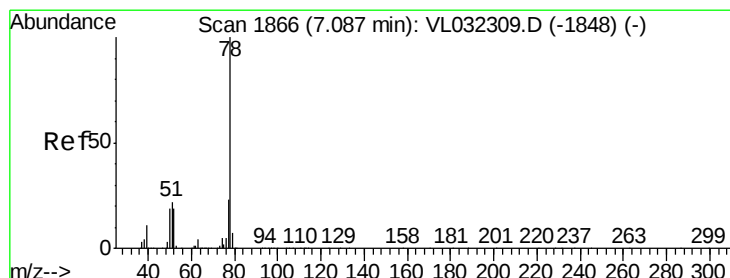
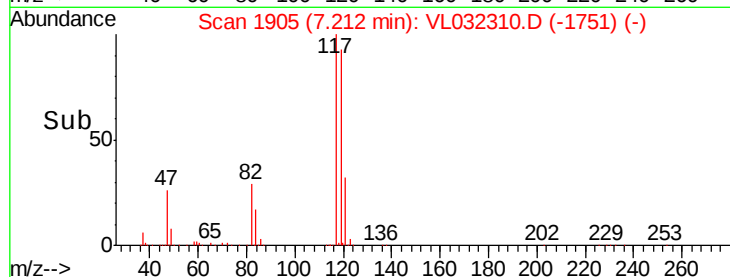
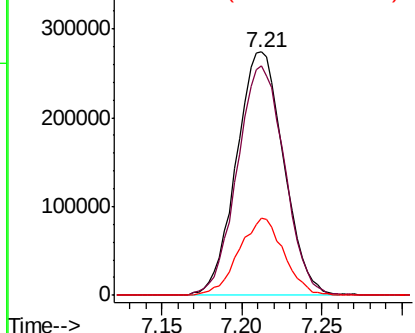
#35
Carbon Tetrachloride
Concen: 1.875 ppbv
RT: 7.21 min Scan# 1905
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.1	76.1	114.1
121	32.1	24.4	36.6

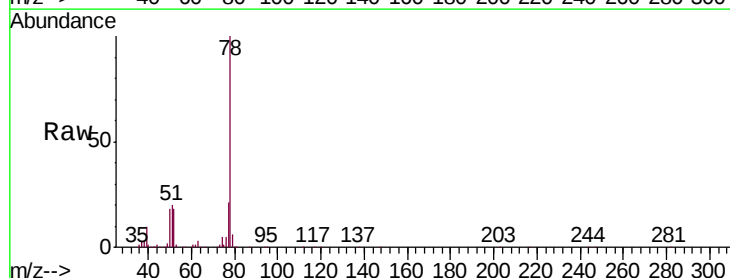


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

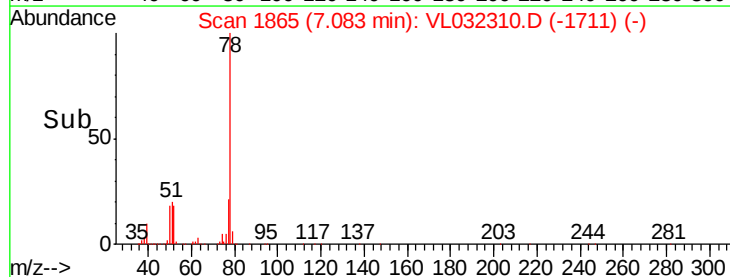
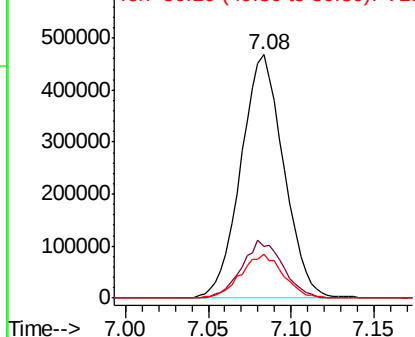


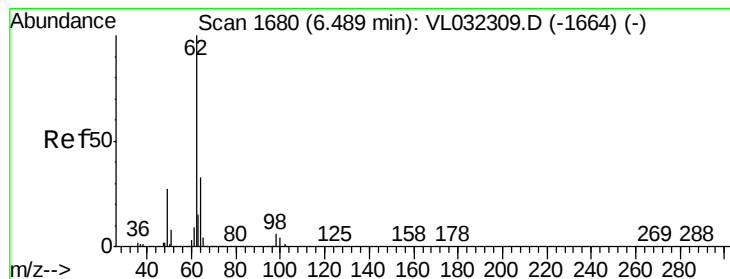
#36
Benzene
Concen: 1.963 ppbv
RT: 7.08 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.4	27.6
50	18.0	15.3	22.9



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: 1.915 ppbv

RT: 6.49 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

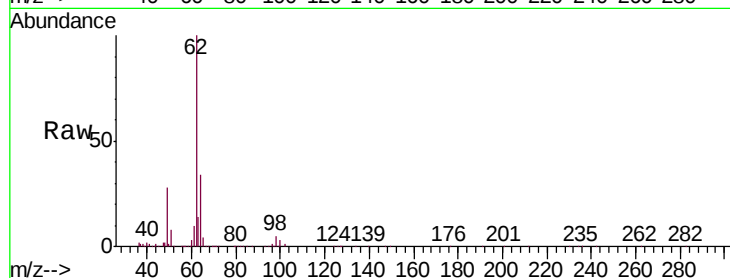
ClientSampleId :

Tot Ion: 62 Resp: 477415

Ion Ratio Lower Upper

62 100

98 6.2 5.1 7.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.49

250000

200000

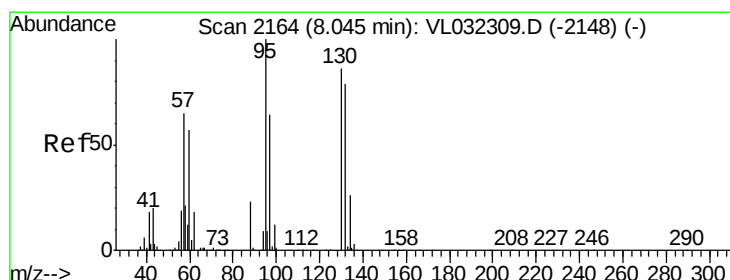
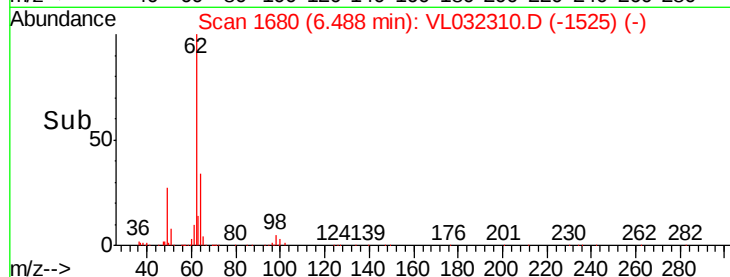
150000

100000

50000

0

Time-->



#38

Trichloroethene

Concen: 2.415 ppbv

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Tgt Ion: 130 Resp: 349044

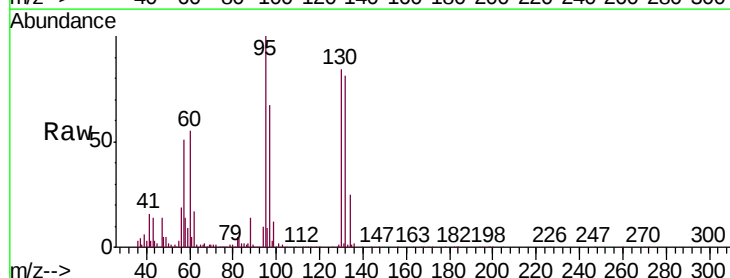
Ion Ratio Lower Upper

130 100

95 118.8 92.9 139.3

132 96.5 73.0 109.4

97 78.9 59.6 89.4



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

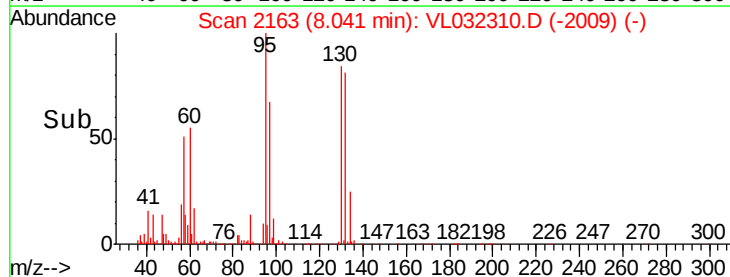
300000

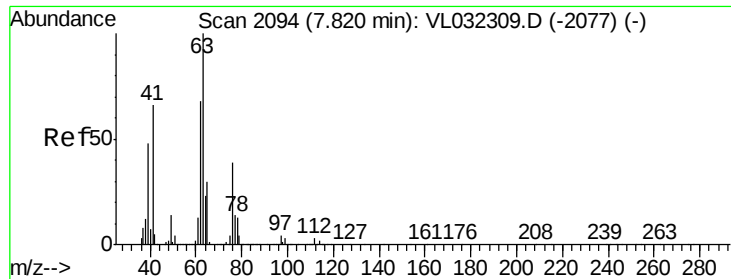
200000

100000

0

Time-->

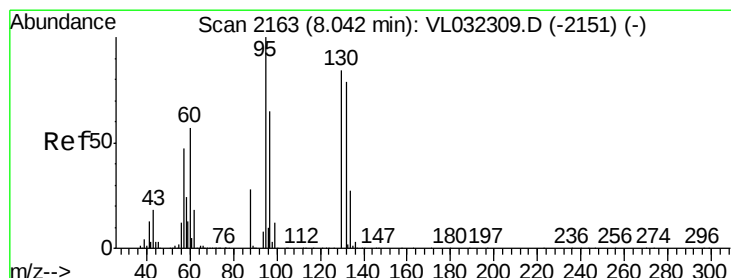
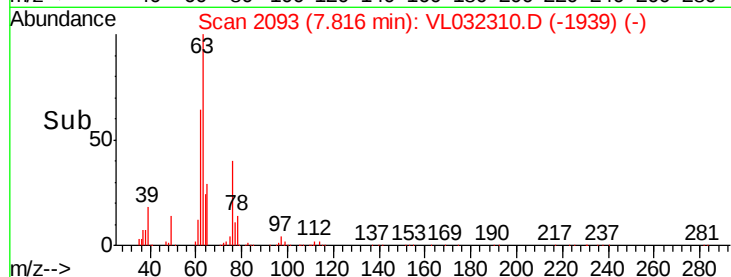
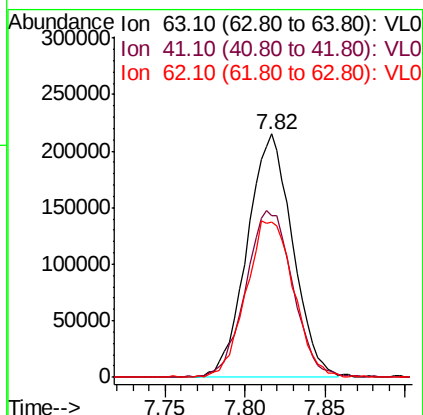
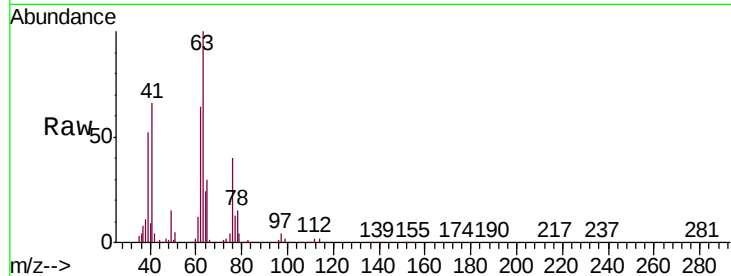




#39
 1,2-Dichloropropane
 Concen: 2.373 ppbv
 RT: 7.82 min Scan# 2093
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

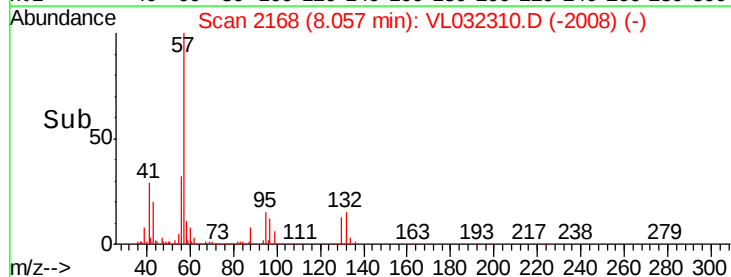
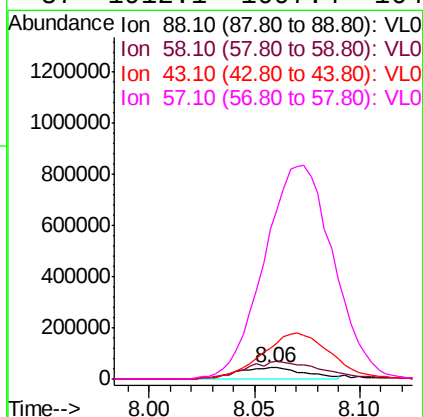
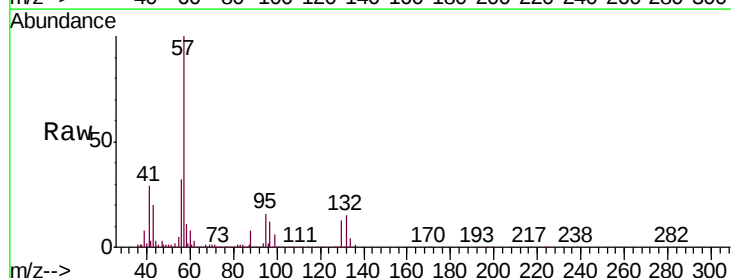
Instrument :
 MSVOA_L
 ClientSampleId :

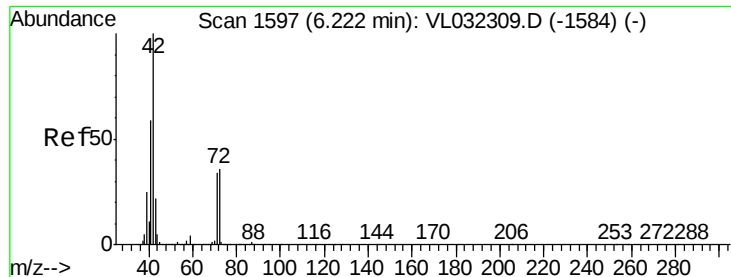
Tot Ion	Ratio	Lower	Upper
63	100		
41	65.7	52.5	78.7
62	63.9	54.6	81.8



#40
 1,4-Dioxane
 Concen: 1.932 ppbv
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.02 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Tgt Ion	Ratio	Lower	Upper
88	100		
58	185.5	120.5	180.7#
43	408.1	246.2	369.2#
57	1912.1	1097.4	1646.2#

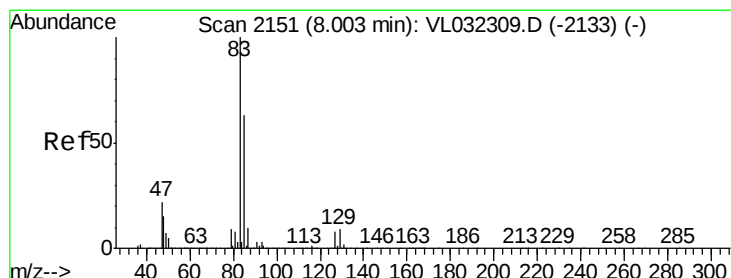
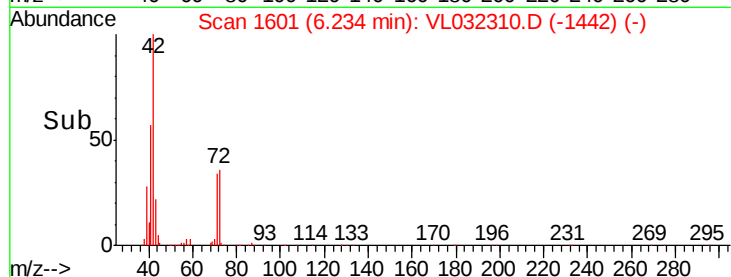
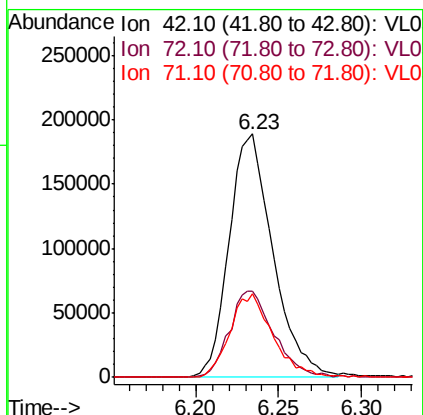
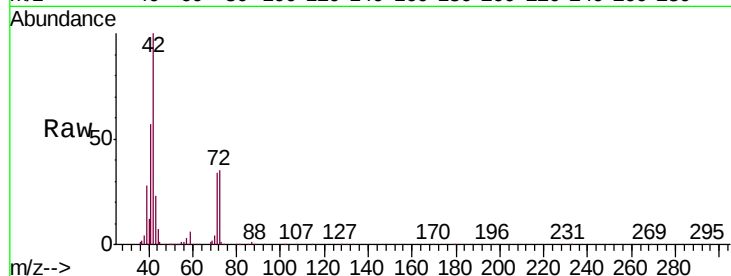




#41
Tetrahydrofuran
Concen: 2.016 ppbv
RT: 6.23 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

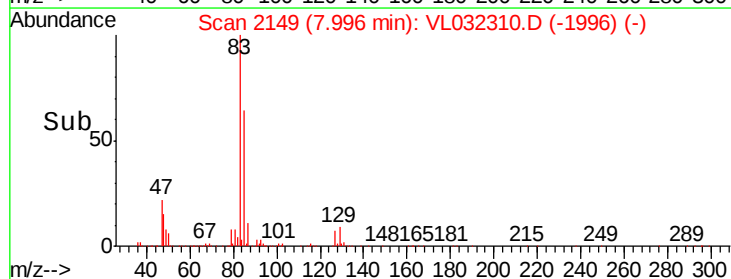
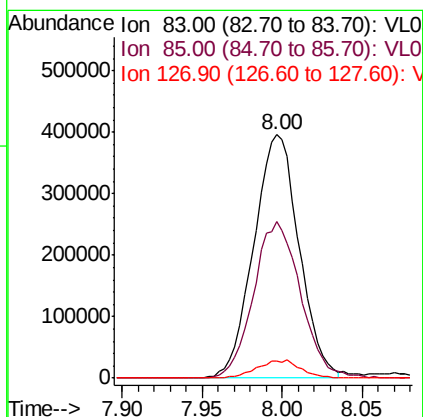
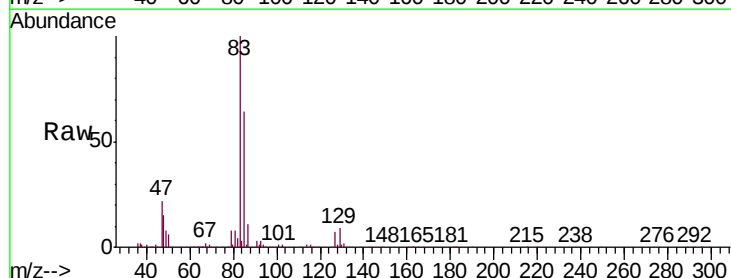
Instrument :
MSVOA_L
ClientSampleId :

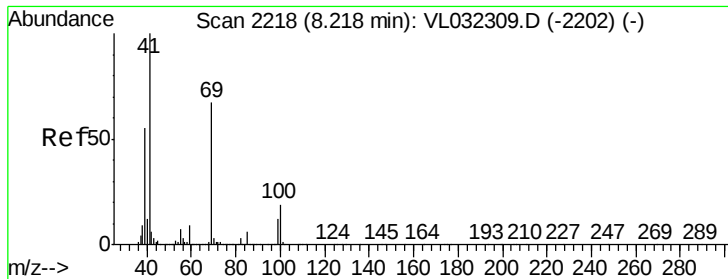
Tot Ion	Ratio	Lower	Upper
42	100		
72	36.5	28.6	42.8
71	33.9	27.8	41.6



#42
Bromodichloromethane
Concen: 2.348 ppbv
RT: 8.00 min Scan# 2149
Delta R.T. -0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.7	76.1
127	7.0	6.0	9.0

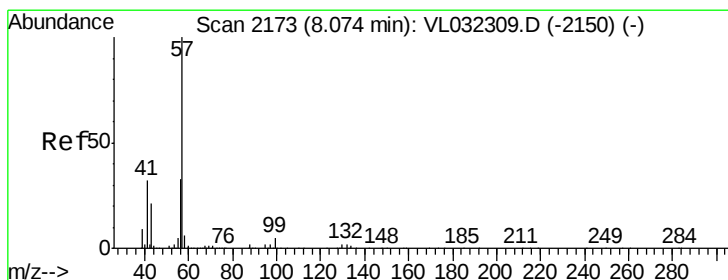
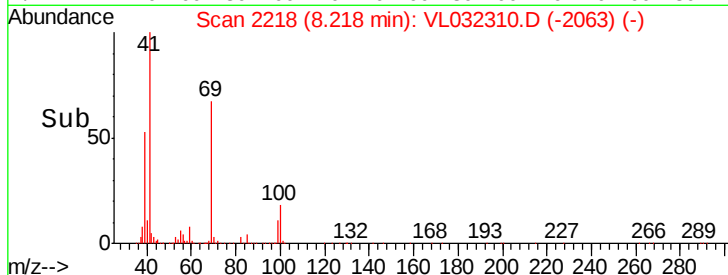
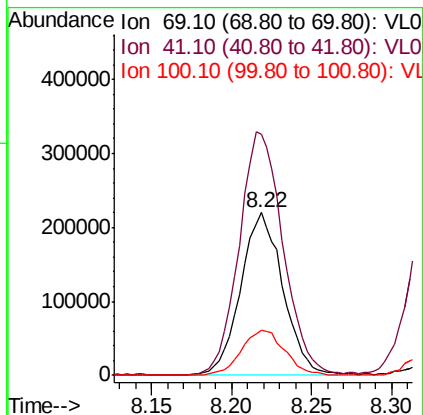
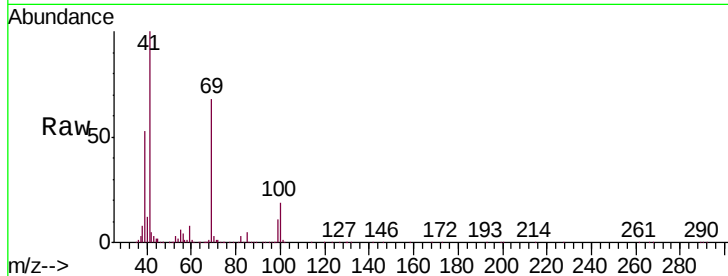




#43
Methvl Methacrylate
Concen: 2.254 ppbv
RT: 8.22 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

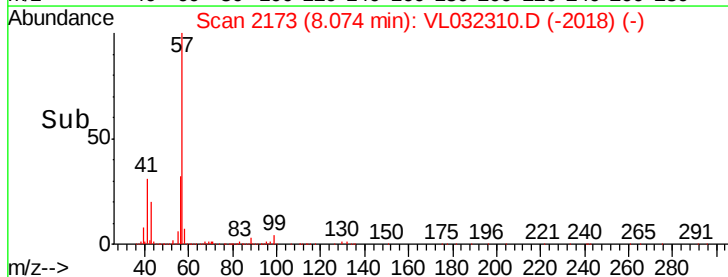
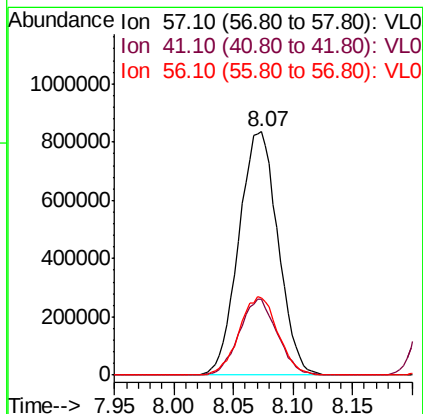
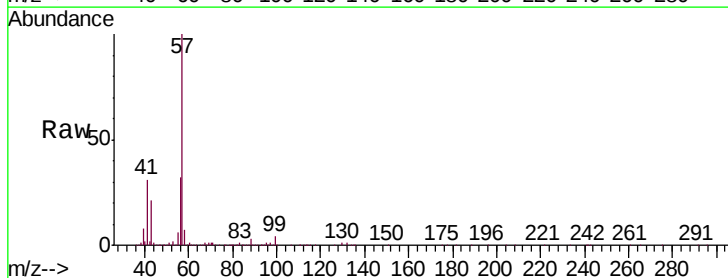
Instrument :
MSVOA_L
ClientSampleId :

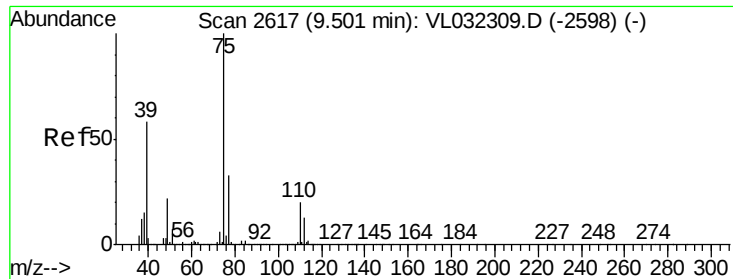
Tot Ion: 69 Resp: 394982
Ion Ratio Lower Upper
69 100
41 155.7 120.6 180.8
100 28.9 23.2 34.8



#44
2,2,4-Trimethylpentane
Concen: 2.527 ppbv
RT: 8.07 min Scan# 2173
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion: 57 Resp: 1910335
Ion Ratio Lower Upper
57 100
41 30.5 24.3 36.5
56 32.0 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 2.081 ppbv

RT: 9.50 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

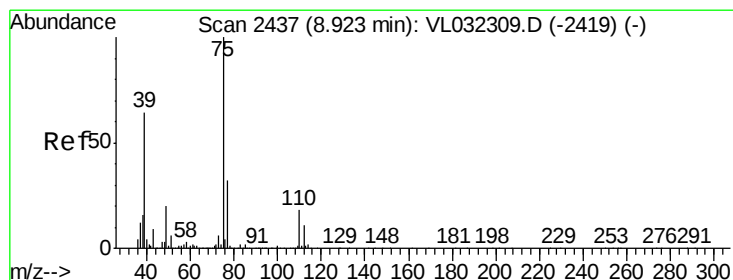
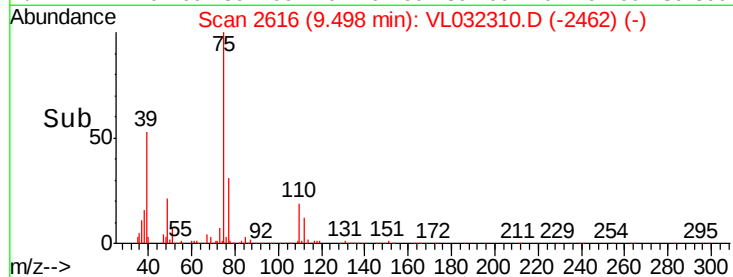
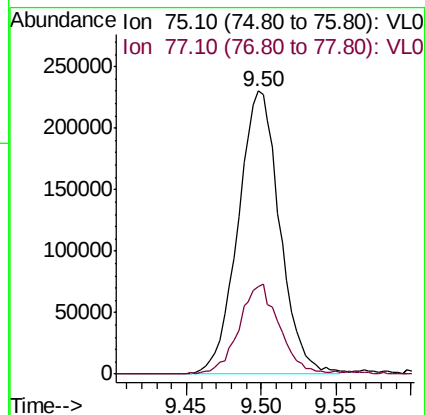
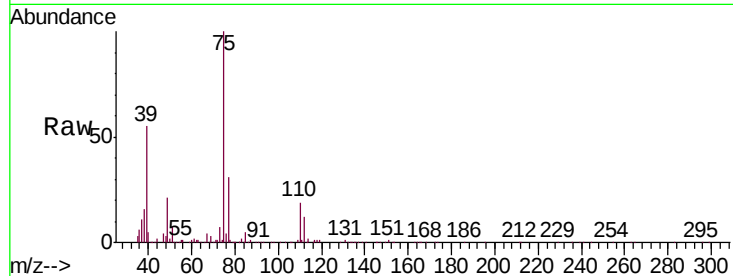
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 75 Resp: 441988

Ion Ratio Lower Upper

75 100

77 30.9 26.2 39.4



#46

cis-1,3-Dichloropropene

Concen: 2.094 ppbv

RT: 8.92 min Scan# 2435

Delta R.T. -0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

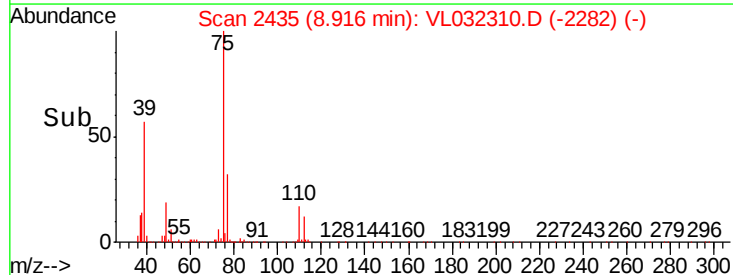
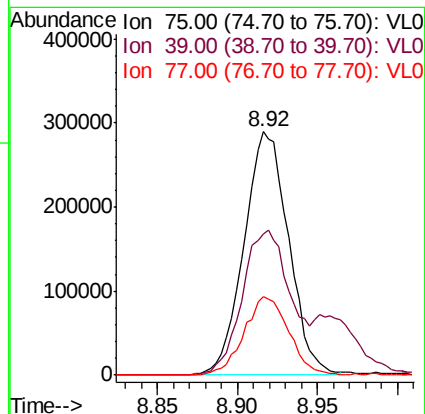
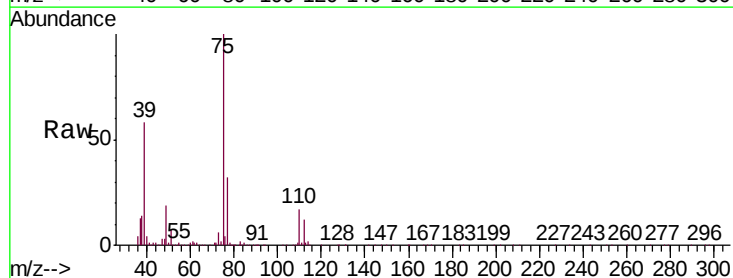
Tgt Ion: 75 Resp: 551598

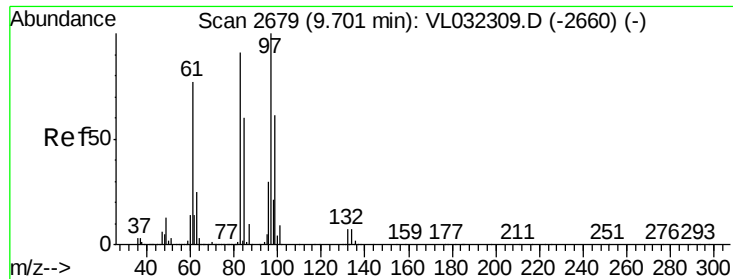
Ion Ratio Lower Upper

75 100

39 57.6 50.9 76.3

77 32.1 25.7 38.5

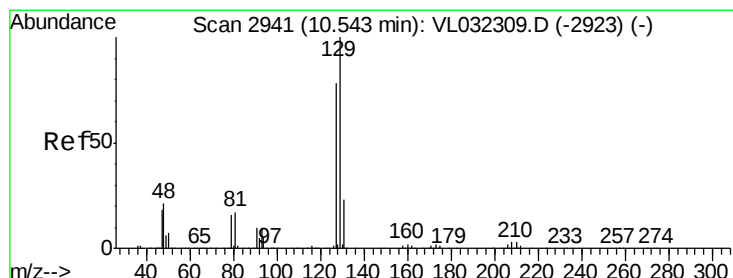
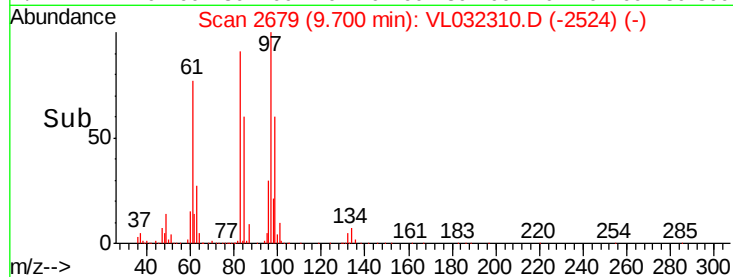
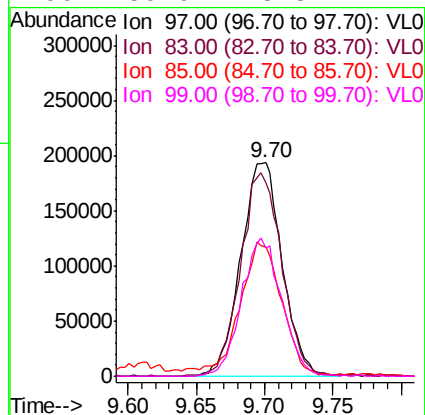
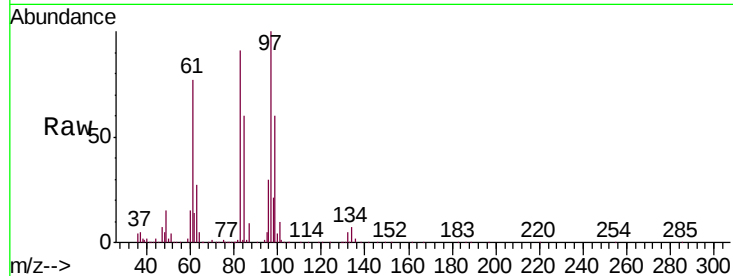




#47
 1,1,2-Trichloroethane
 Concen: 2.228 ppbv
 RT: 9.70 min Scan# 2679
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

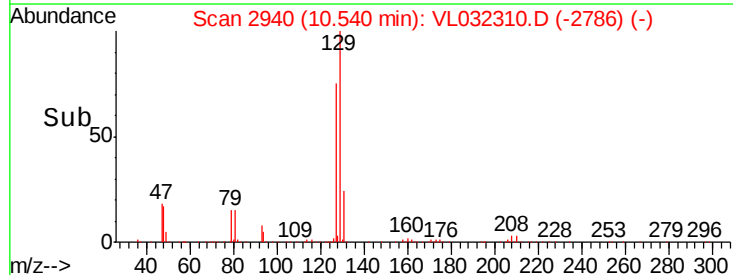
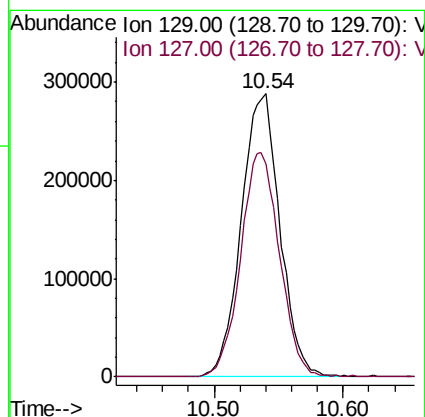
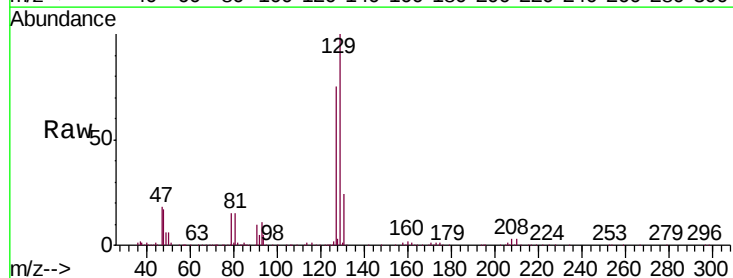
Instrument :
 MSVOA_L
 ClientSampled :

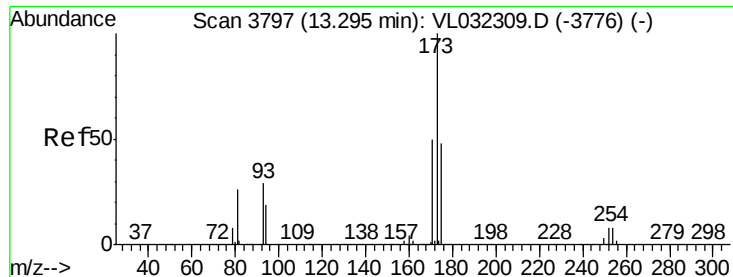
Tot Ion:	97	Resp:	408597
Ion	Ratio	Lower	Upper
97	100		
83	90.1	73.0	109.6
85	59.3	48.1	72.1
99	59.9	48.5	72.7



#48
 Dibromochloromethane
 Concen: 2.229 ppbv
 RT: 10.54 min Scan# 2940
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Tgt Ion:	129	Resp:	600909
Ion	Ratio	Lower	Upper
129	100		
127	79.7	39.5	118.3





#49

Bromoform

Concen: 2.148 ppbv

RT: 13.29 min Scan# 3795

Delta R.T. -0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

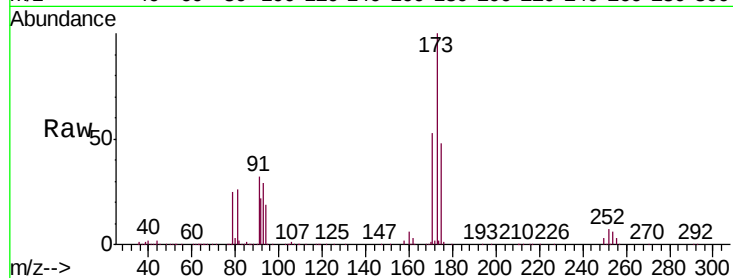
Tot Ion:173 Resp: 504643

Ion Ratio Lower Upper

173 100

175 48.6 38.9 58.3

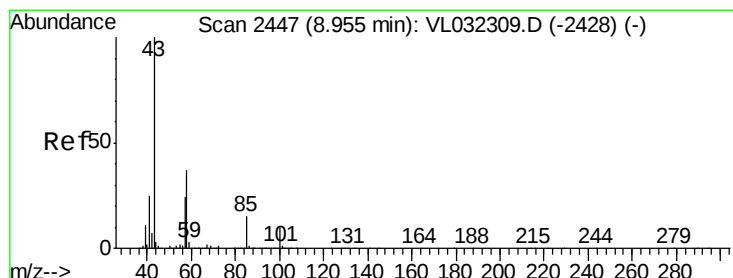
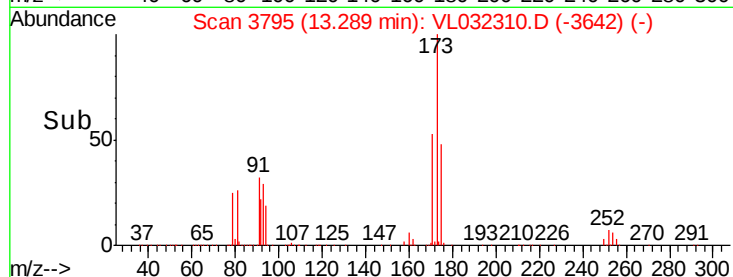
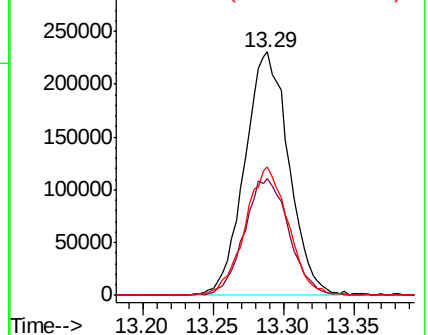
171 51.9 42.2 63.2



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: 2.250 ppbv

RT: 8.96 min Scan# 2448

Delta R.T. 0.00 min

Lab File: VL032310.D

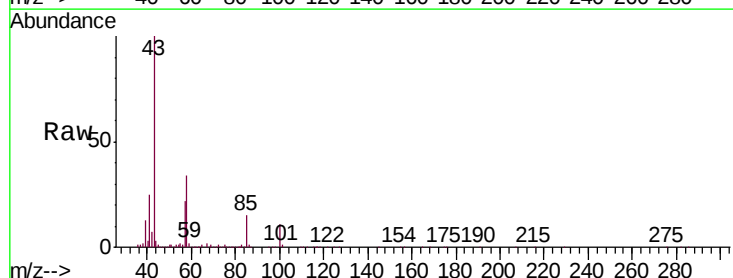
Acq: 27 Jul 2018 1:17

Tgt Ion: 43 Resp: 1109117

Ion Ratio Lower Upper

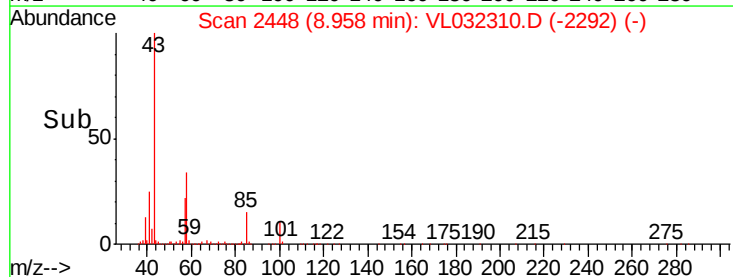
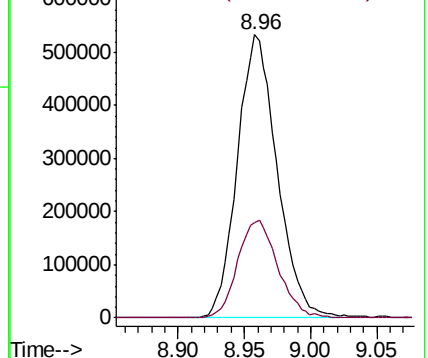
43 100

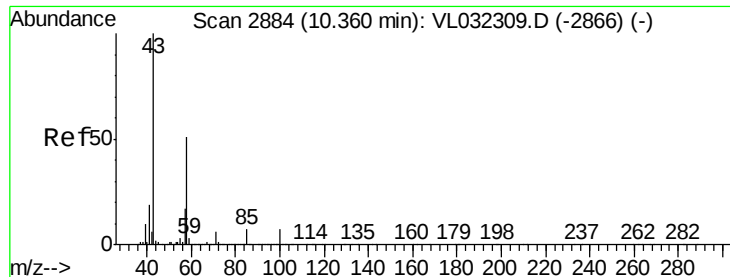
58 35.1 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 2.167 ppbv

RT: 10.36 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

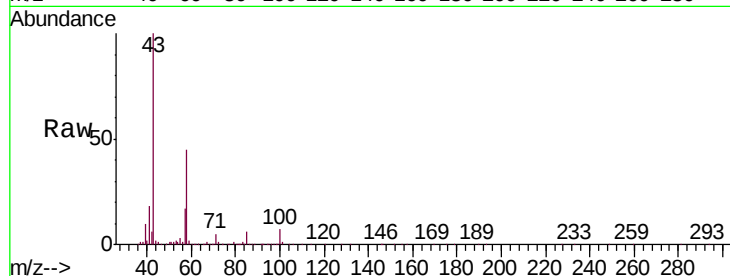
Instrument :

MSVOA_L

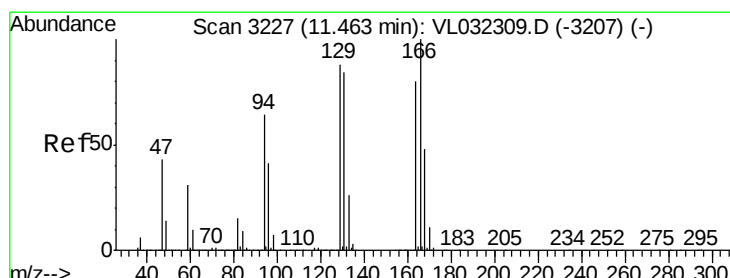
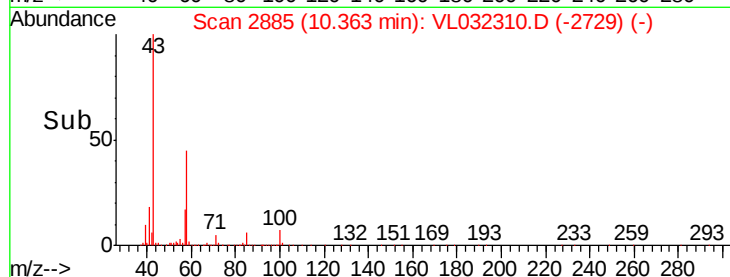
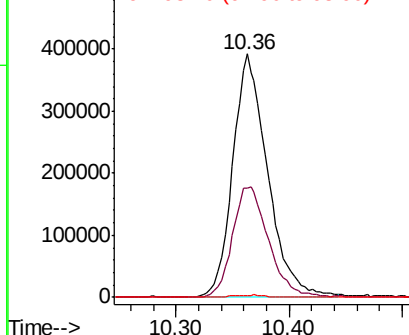
ClientSampleId :

Tot Ion: 43 Resp: 840562

Ion	Ratio	Lower	Upper
43	100		
58	47.4	39.1	58.7
98	0.8	0.3	0.5#



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



#52

Tetrachloroethene

Concen: 2.078 ppbv

RT: 11.46 min Scan# 3226

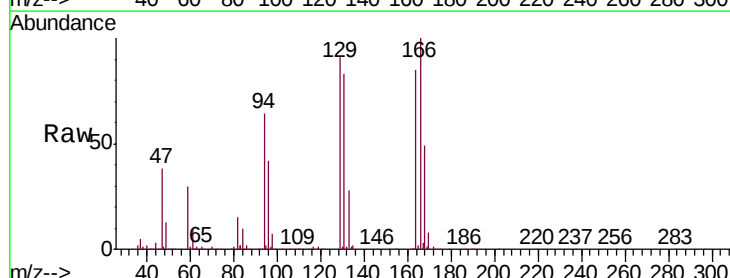
Delta R.T. -0.00 min

Lab File: VL032310.D

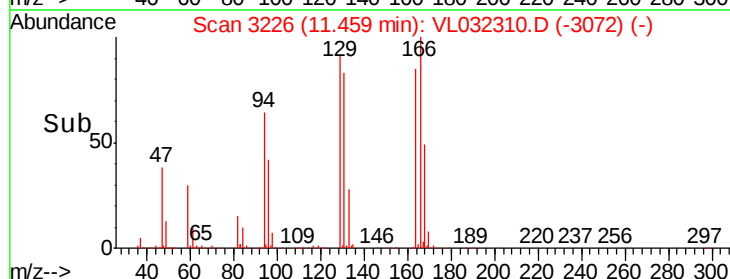
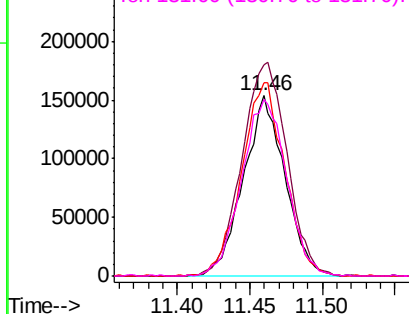
Acq: 27 Jul 2018 1:17

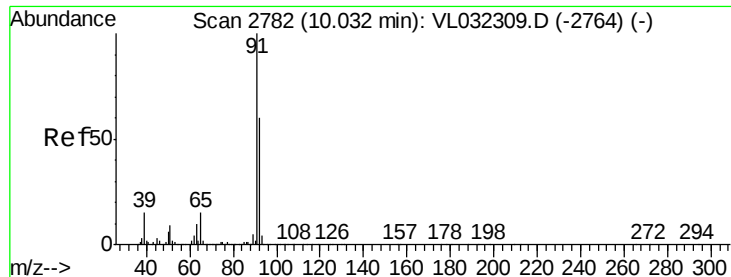
Tgt Ion: 164 Resp: 305919

Ion	Ratio	Lower	Upper
164	100		
166	117.0	100.0	150.0
129	106.6	87.9	131.9
131	97.6	83.8	125.8



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





#53

Toluene

Concen: 2.054 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. -0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

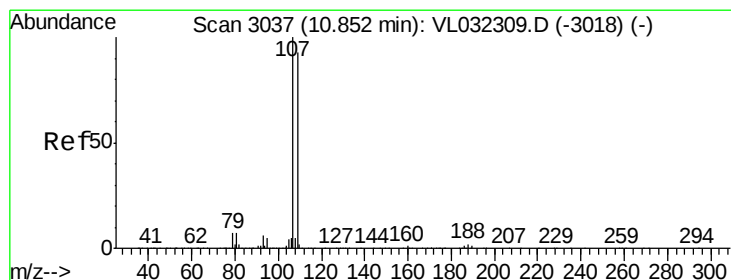
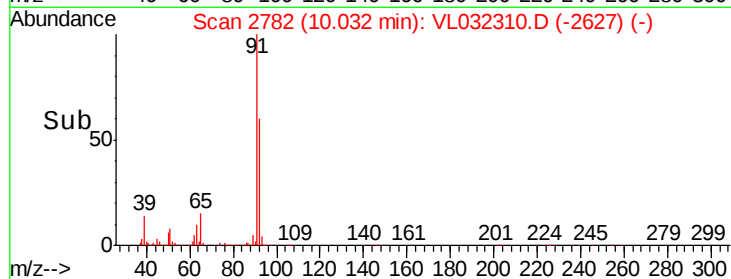
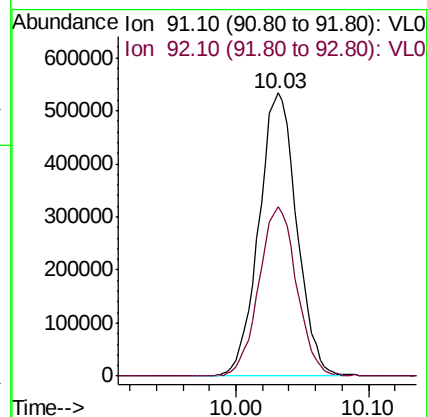
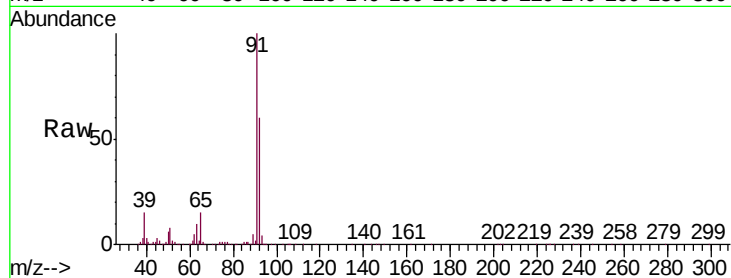
ClientSampleId :

Tot Ion: 91 Resp: 1061787

Ion Ratio Lower Upper

91 100

92 60.0 48.6 72.8



#54

1,2-Dibromoethane

Concen: 2.115 ppbv

RT: 10.85 min Scan# 3035

Delta R.T. -0.01 min

Lab File: VL032310.D

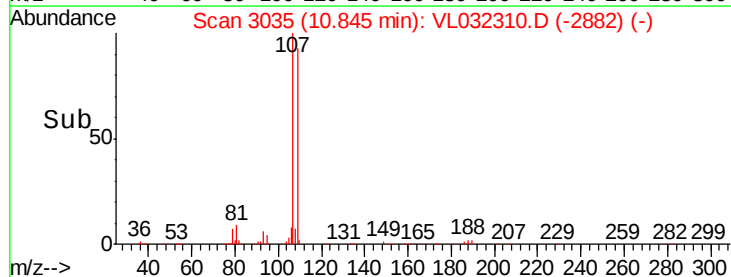
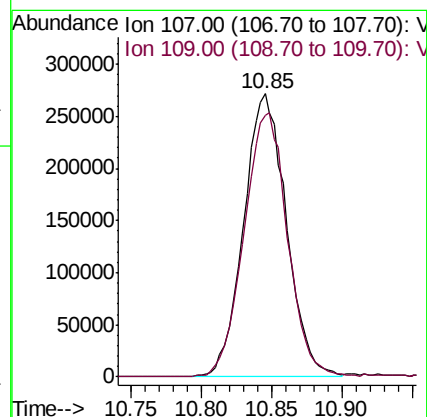
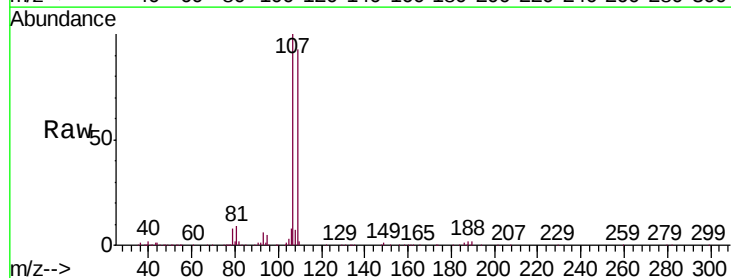
Acq: 27 Jul 2018 1:17

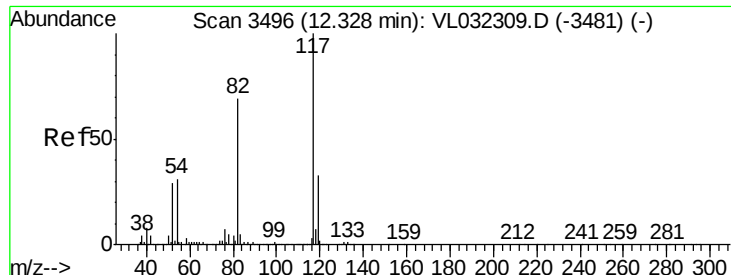
Tgt Ion: 107 Resp: 575489

Ion Ratio Lower Upper

107 100

109 92.2 74.1 111.1

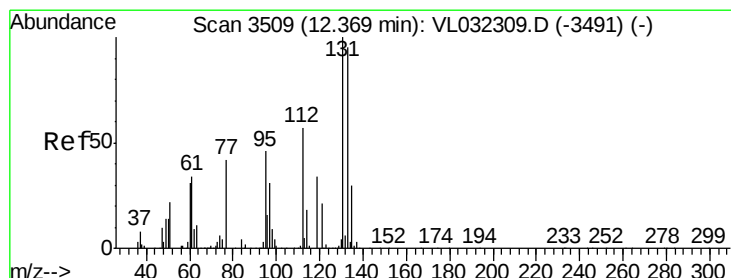
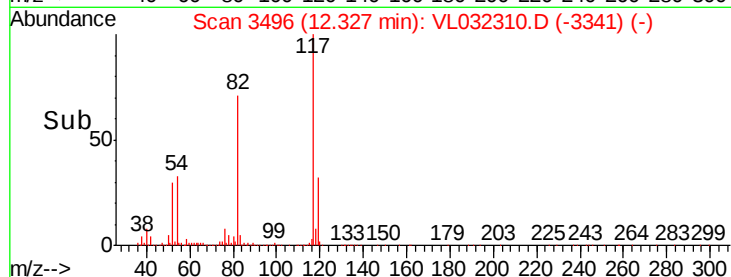
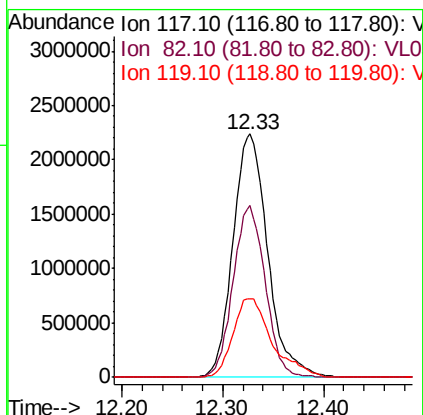
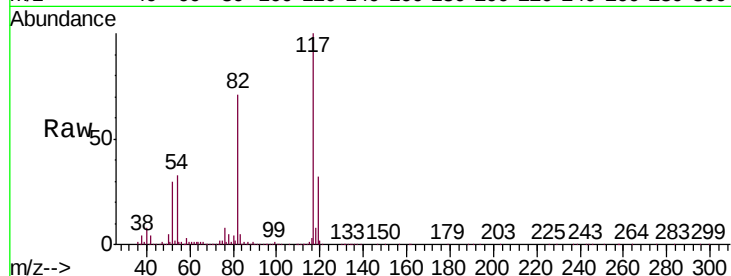




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3496
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

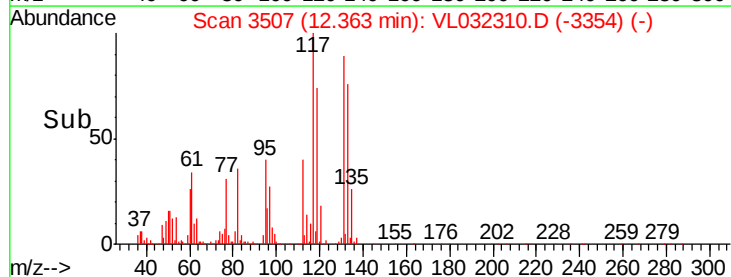
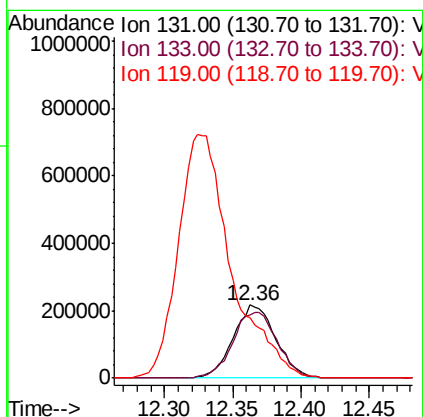
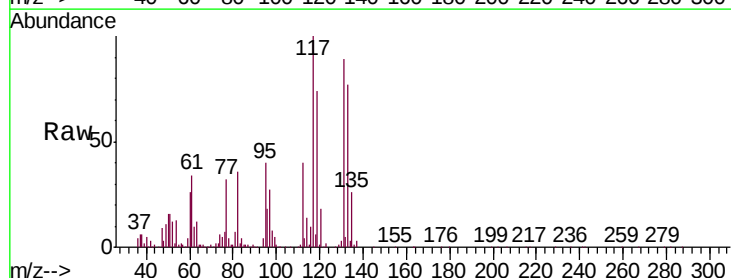
Instrument :
MSVOA_L
ClientSampled :

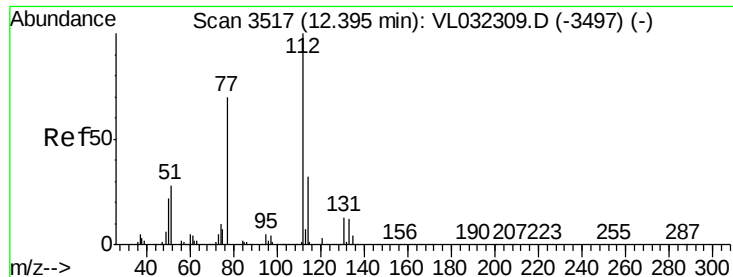
Tot Ion:117 Resp: 5353469
Ion Ratio Lower Upper
117 100
82 65.6 52.6 78.8
119 36.5 25.7 38.5



#56
1,1,1,2-Tetrachloroethane
Concen: 1.972 ppbv
RT: 12.36 min Scan# 3507
Delta R.T. -0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion:131 Resp: 467766
Ion Ratio Lower Upper
131 100
133 94.9 75.8 113.6
119 416.4 48.1 72.1#





#57

Chlorobenzene

Concen: 2.004 ppbv

RT: 12.39 min Scan# 3514

Delta R.T. -0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

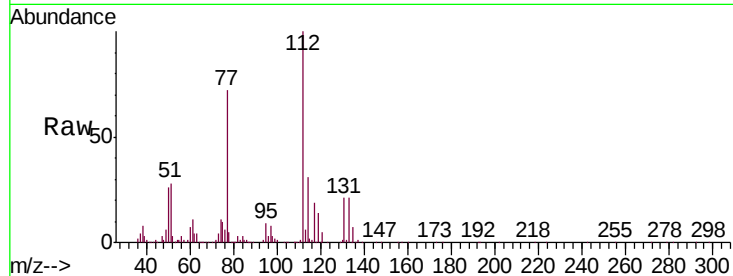
Tot Ion:112 Resp: 878621

Ion Ratio Lower Upper

112 100

77 71.0 56.5 84.7

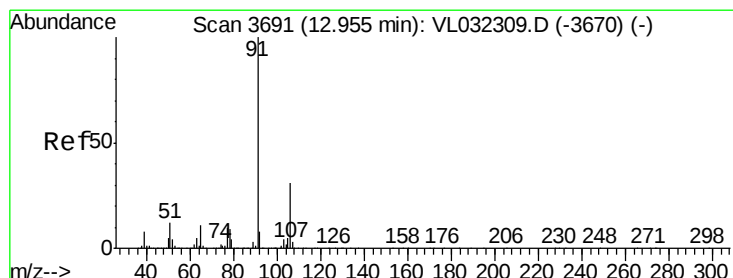
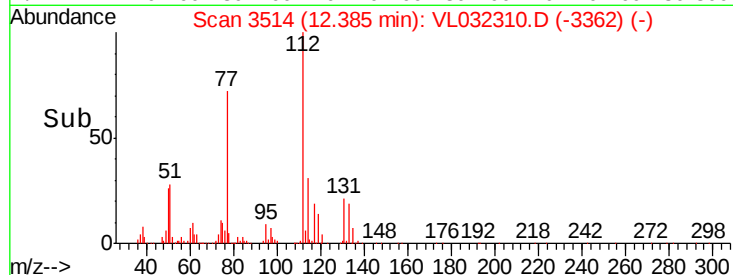
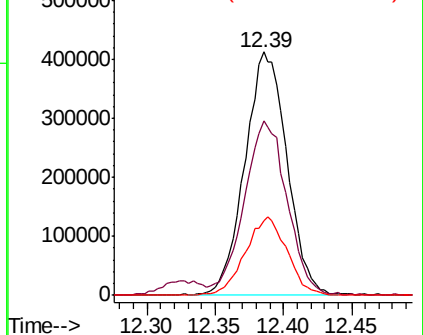
114 30.6 28.4 34.7



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: 1.990 ppbv

RT: 12.95 min Scan# 3690

Delta R.T. -0.00 min

Lab File: VL032310.D

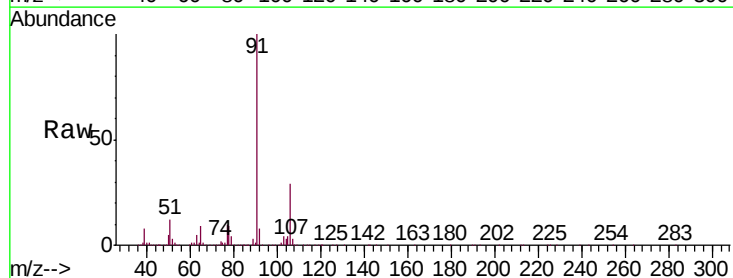
Acq: 27 Jul 2018 1:17

Tgt Ion: 91 Resp: 1476884

Ion Ratio Lower Upper

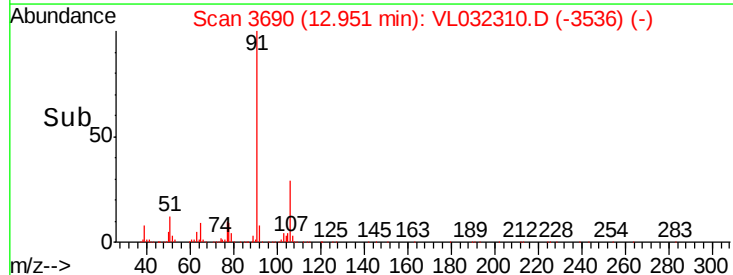
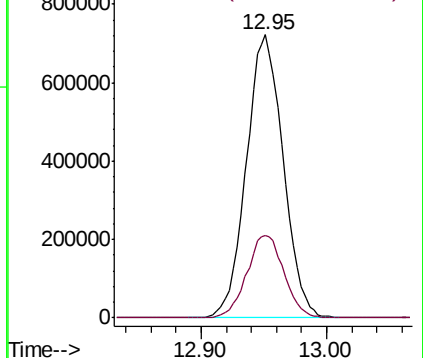
91 100

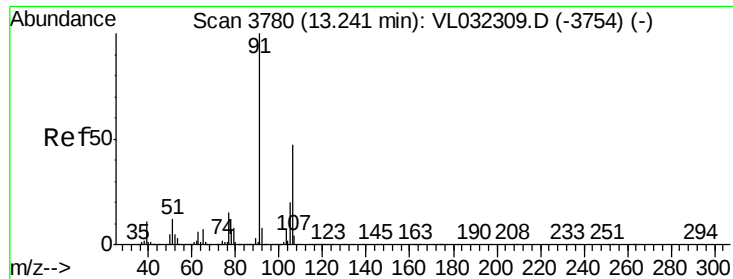
106 29.2 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

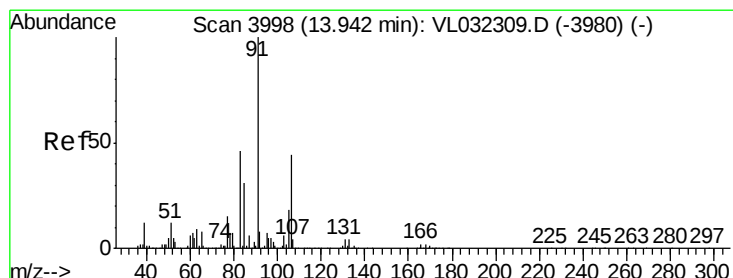
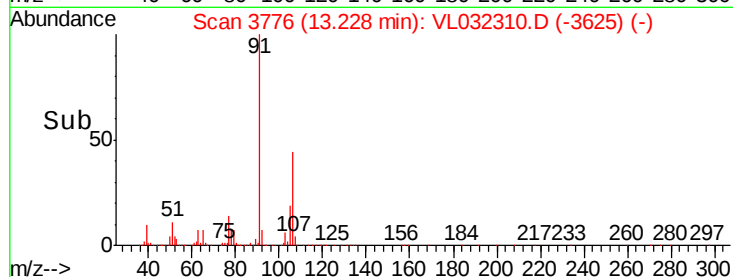
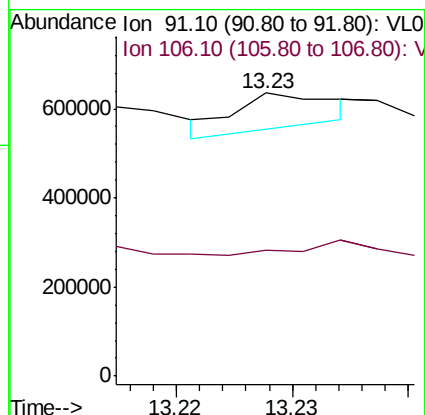
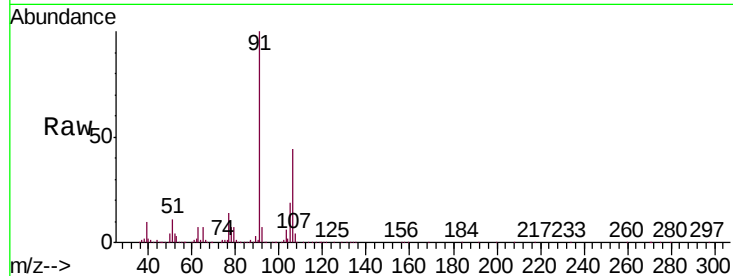




#59
m/p-Xylene
Concen: 0.073 ppbv
RT: 13.23 min Scan# 3776
Delta R.T. -0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

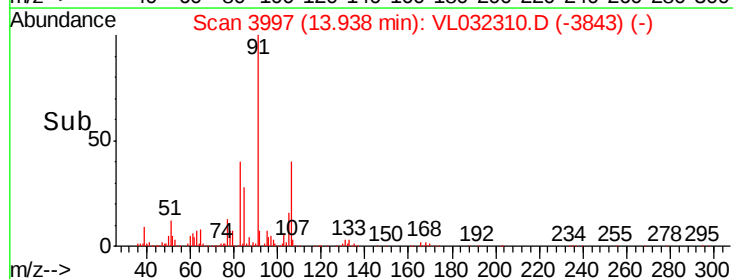
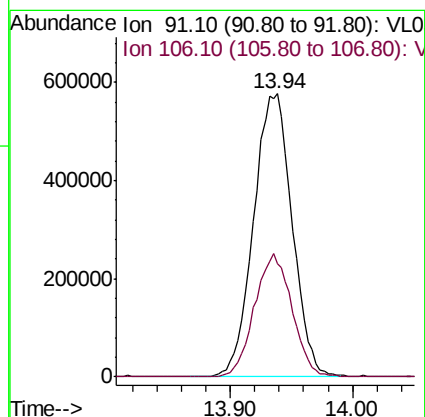
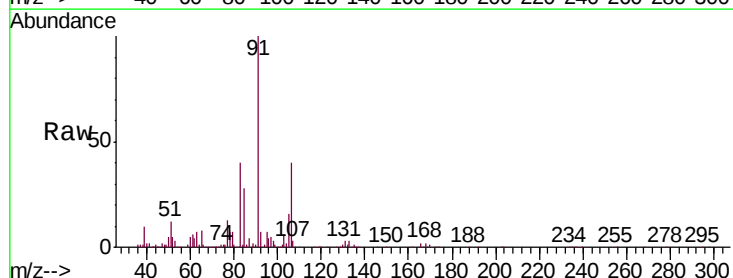
Instrument :
MSVOA_L
ClientSampleId :

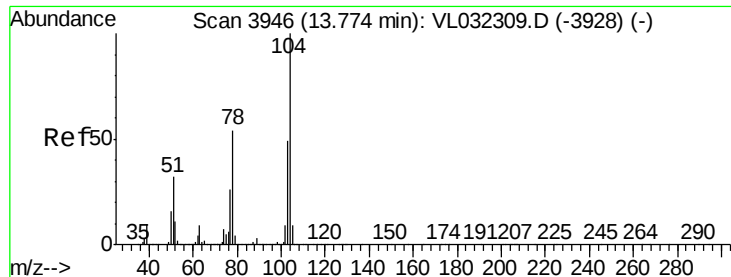
Tot Ion: 91 Resp: 46806
Ion Ratio Lower Upper
91 100
106 2402.9 36.4 54.6#



#60
o-Xylene
Concen: 1.967 ppbv
RT: 13.94 min Scan# 3997
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion: 91 Resp: 1255116
Ion Ratio Lower Upper
91 100
106 42.5 22.4 67.0





#61

Stvrene

Concen: 1.949 ppbv

RT: 13.77 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

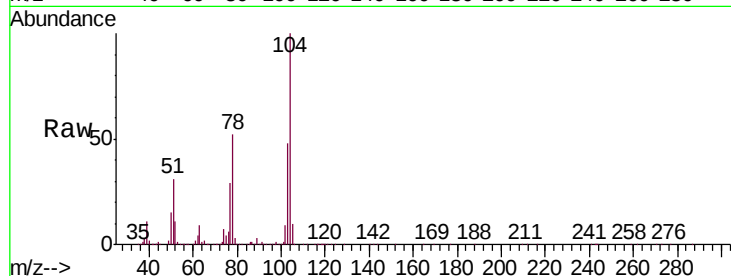
Tot Ion:104 Resp: 913687

Ion Ratio Lower Upper

104 100

78 53.3 42.6 63.8

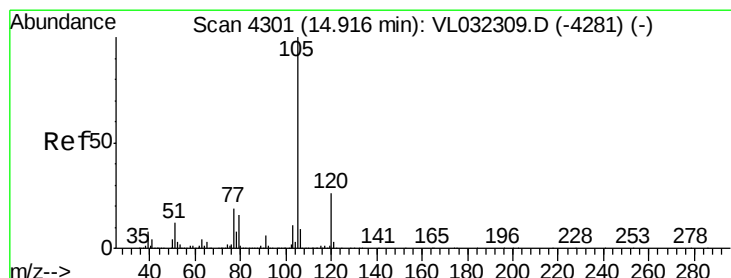
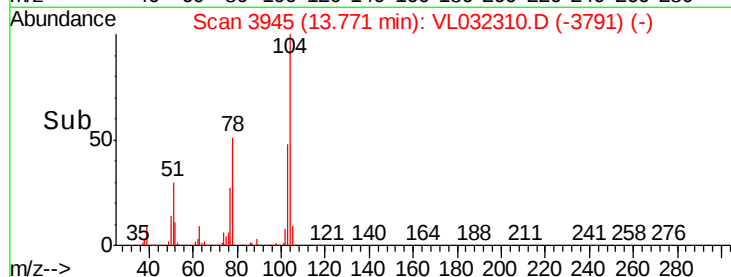
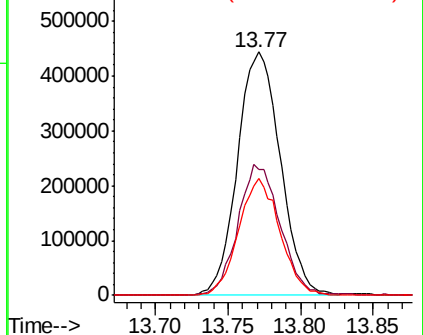
103 46.7 38.0 57.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 1.926 ppbv

RT: 14.91 min Scan# 4300

Delta R.T. -0.00 min

Lab File: VL032310.D

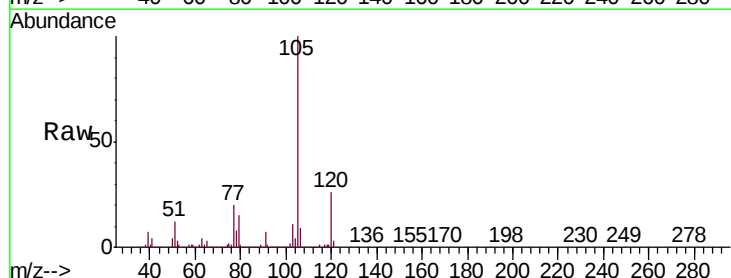
Acq: 27 Jul 2018 1:17

Tgt Ion:105 Resp: 1739499

Ion Ratio Lower Upper

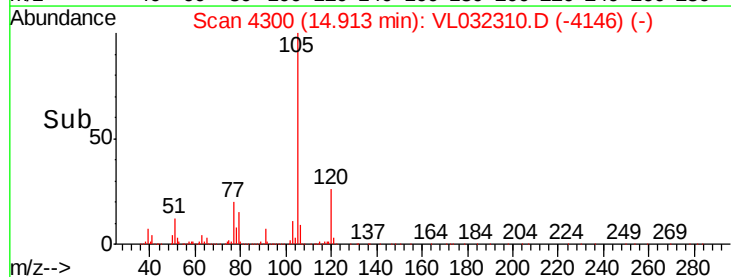
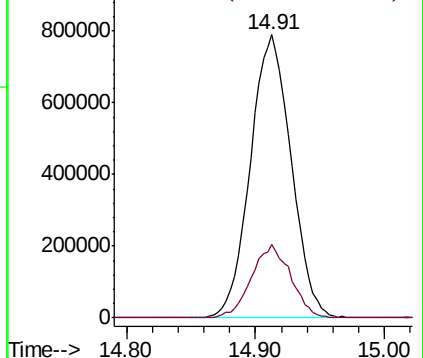
105 100

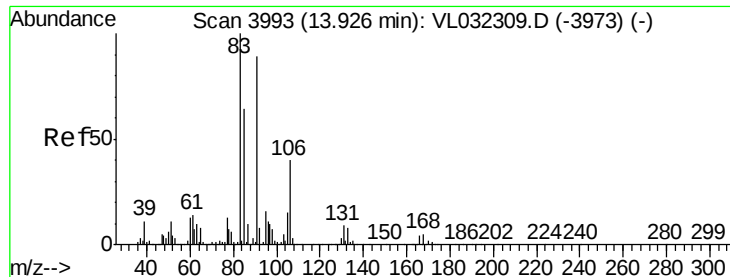
120 24.9 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

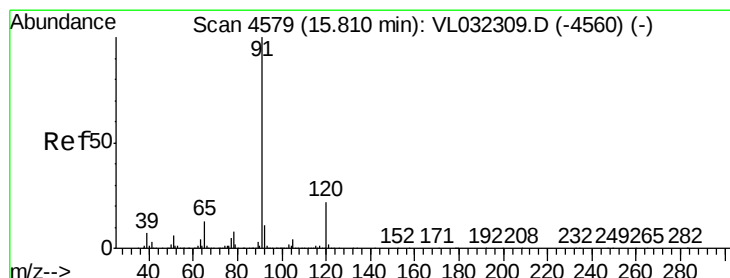
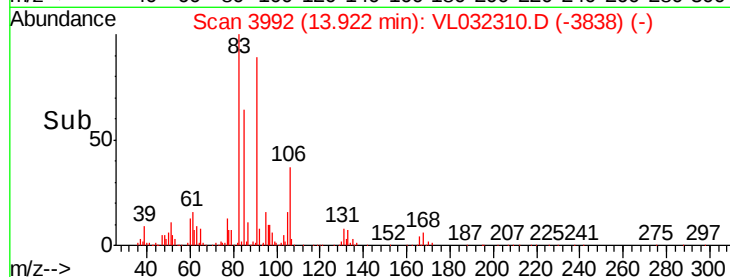
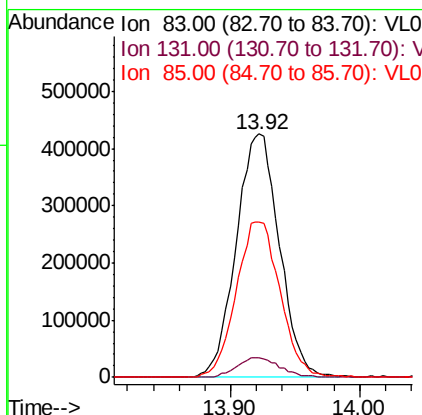
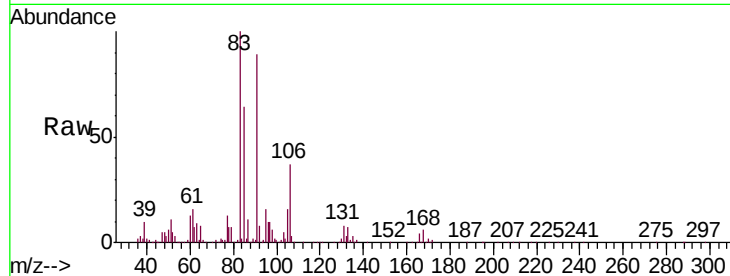




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.807 ppbv
 RT: 13.92 min Scan# 3992
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

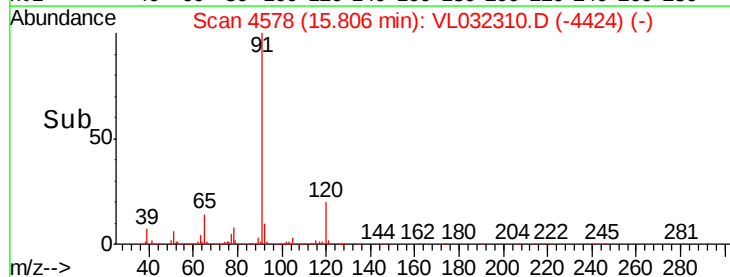
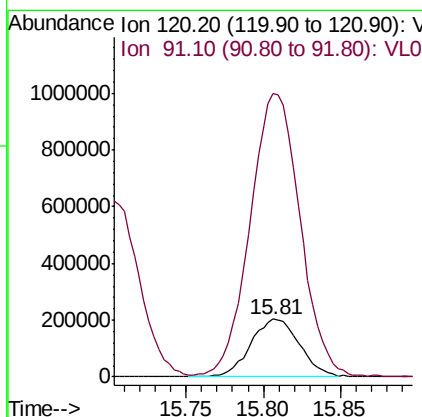
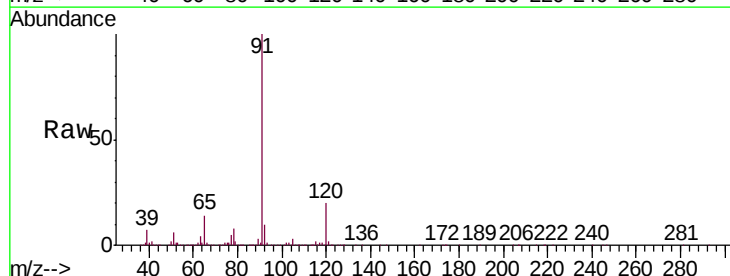
Instrument :
 MSVOA_L
 ClientSampleId :

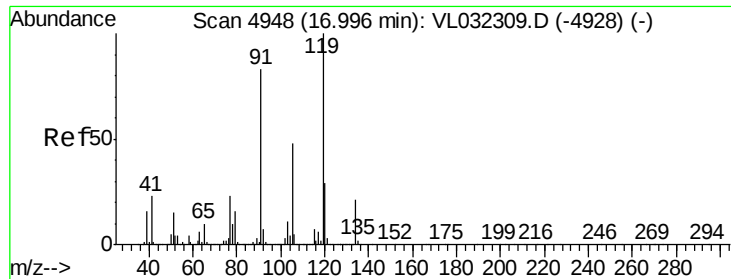
Tot Ion	83	Resp	985098
Ion Ratio	Lower	Upper	
83	100		
131	8.1	4.3	12.8
85	65.5	32.6	97.7



#64
 n-propylbenzene
 Concen: 1.933 ppbv
 RT: 15.81 min Scan# 4578
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Tgt Ion	120	Resp	447833
Ion Ratio	Lower	Upper	
120	100		
91	504.9	381.8	572.8

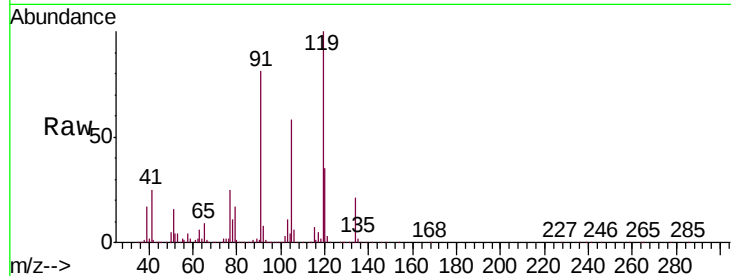




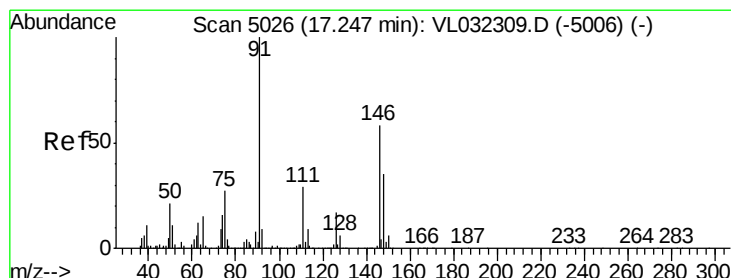
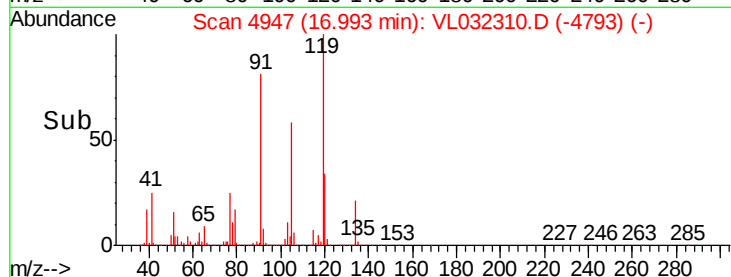
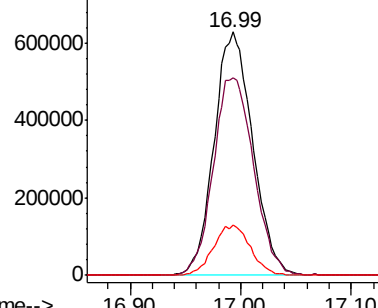
#65
tert-Butylbenzene
Concen: 1.971 ppbv
RT: 16.99 min Scan# 4947
Delta R.T. -0.00 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 119 Resp: 1519283
Ion Ratio Lower Upper
119 100
91 85.2 67.5 101.3
134 19.9 15.8 23.6

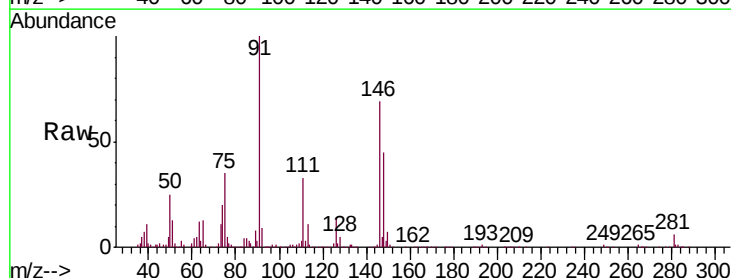


Abundance Ion 119.20 (118.90 to 119.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 134.20 (133.90 to 134.90): V

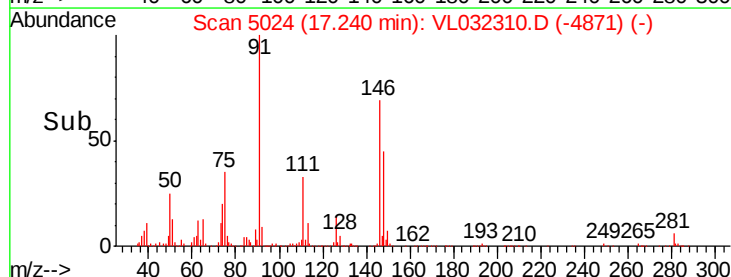
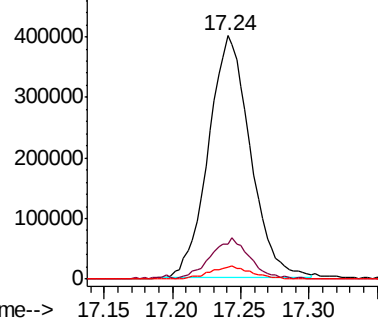


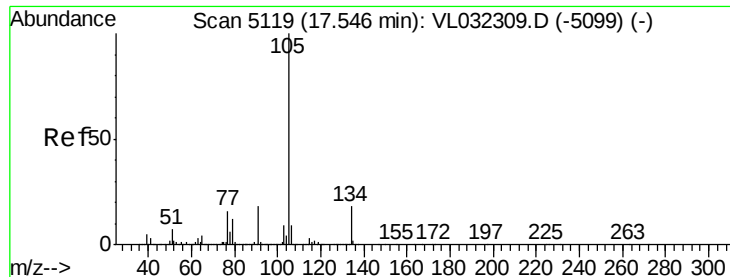
#66
Benzyl Chloride
Concen: 1.977 ppbv
RT: 17.24 min Scan# 5024
Delta R.T. -0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion: 91 Resp: 853204
Ion Ratio Lower Upper
91 100
126 16.7 13.7 20.5
128 5.5 4.3 6.5



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: 1.962 ppbv

RT: 17.54 min Scan# 5118

Delta R.T. -0.00 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

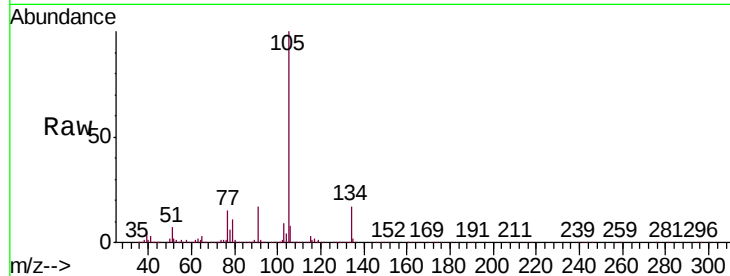
ClientSampled :

Tot Ion:105 Resp: 2259718

Ion Ratio Lower Upper

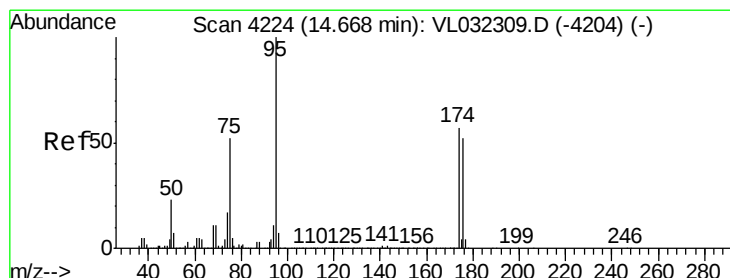
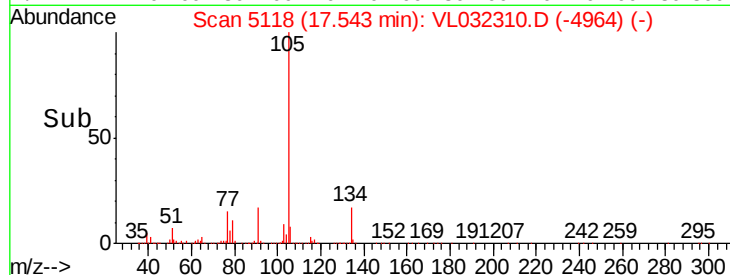
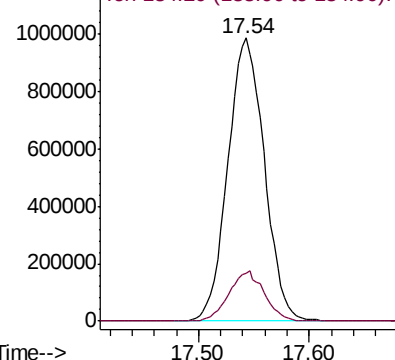
105 100

134 17.3 14.2 21.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.506 ppbv

RT: 14.66 min Scan# 4222

Delta R.T. -0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

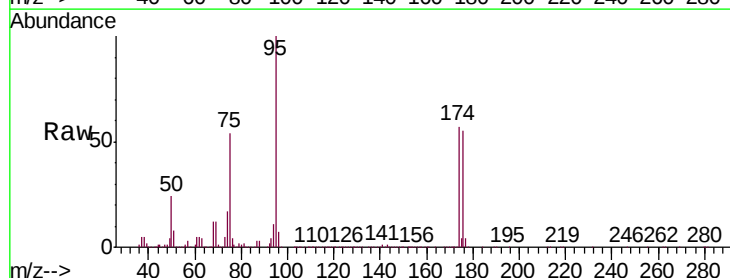
Tgt Ion: 95 Resp: 4072270

Ion Ratio Lower Upper

95 100

174 57.1 45.5 68.3

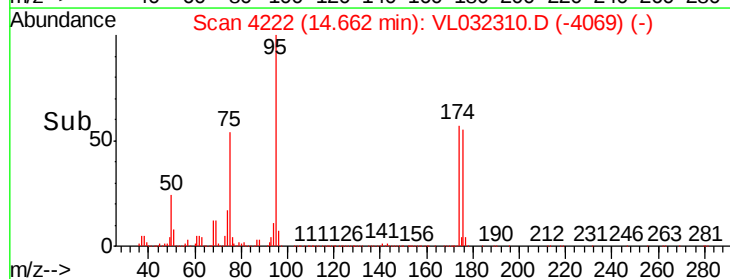
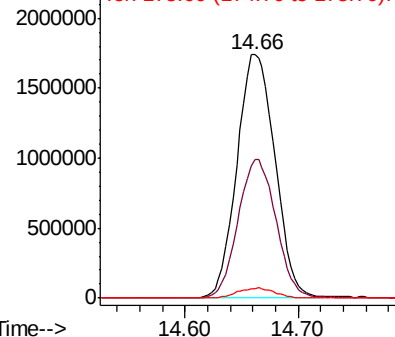
175 4.1 3.3 4.9

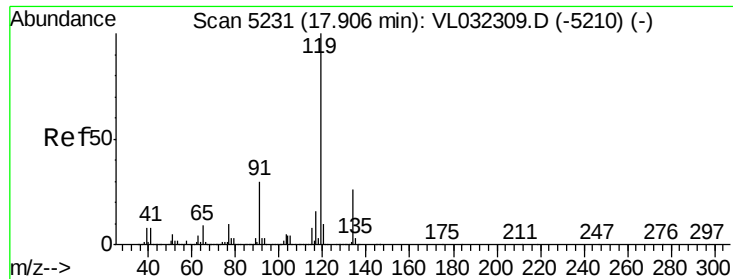


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

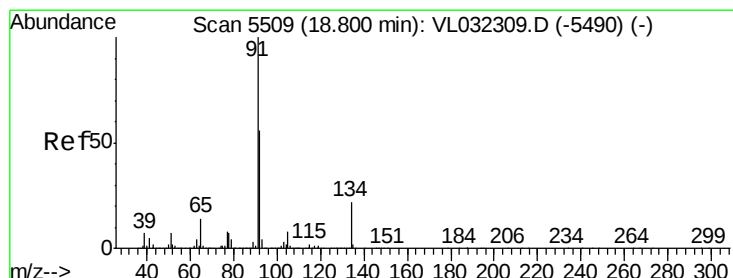
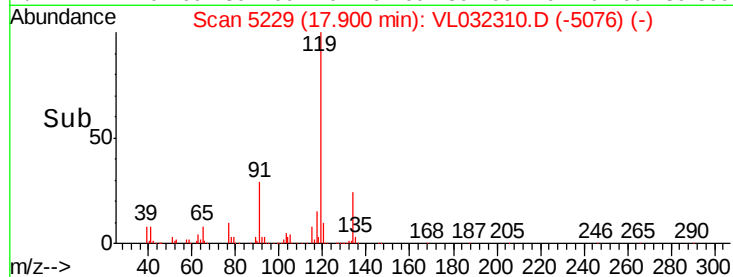
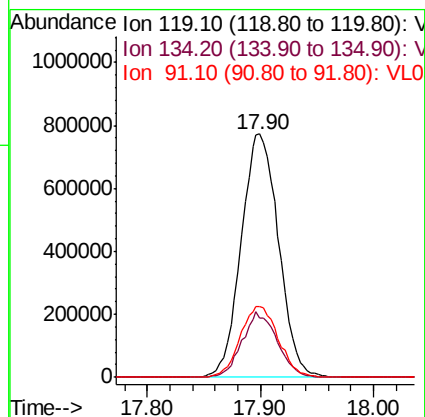
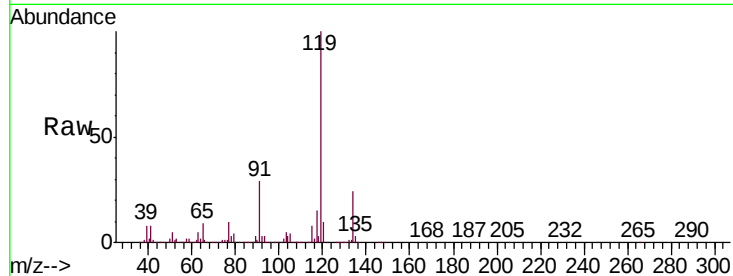




#69
 p-Isopropyltoluene
 Concen: 1.990 ppbv
 RT: 17.90 min Scan# 5229
 Delta R.T. -0.01 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

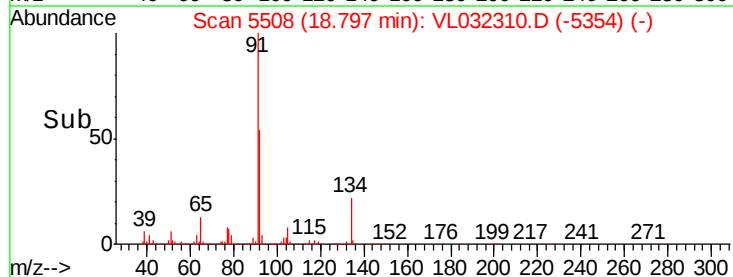
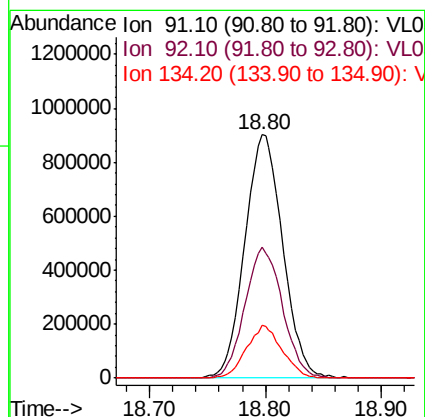
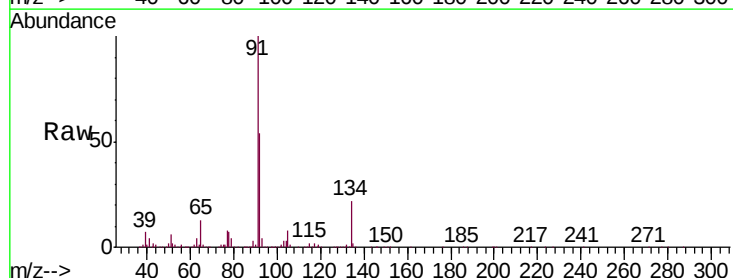
Instrument :
 MSVOA_L
 ClientSampled :

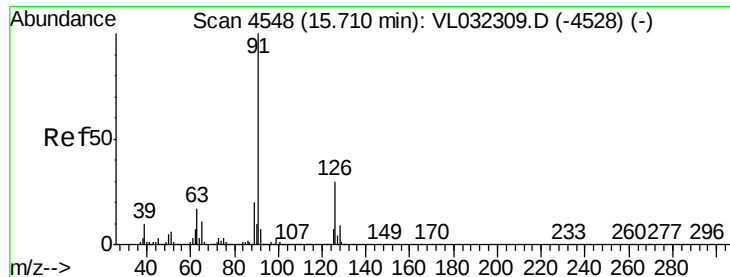
Tot Ion:119 Resp: 1774348
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.3 30.5
 91 29.7 23.8 35.6



#70
 n-Butylbenzene
 Concen: 2.054 ppbv
 RT: 18.80 min Scan# 5508
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Tgt Ion: 91 Resp: 2044350
 Ion Ratio Lower Upper
 91 100
 92 53.5 44.2 66.4
 134 20.5 17.4 26.2

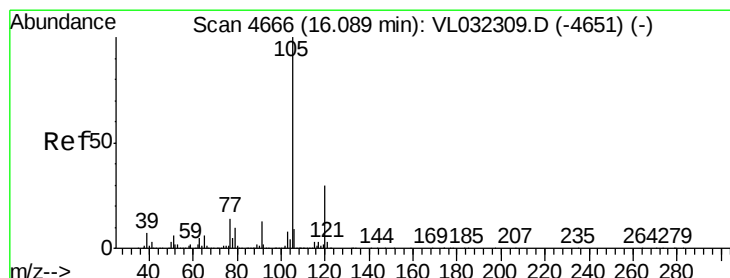
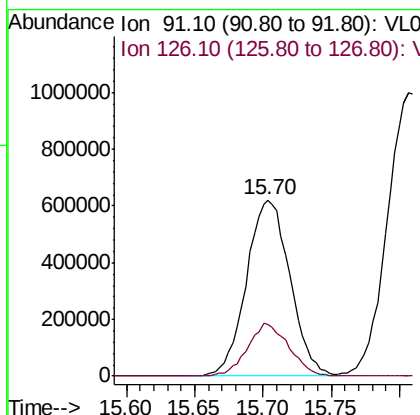
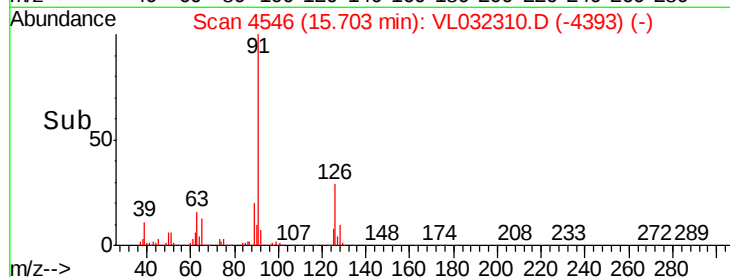
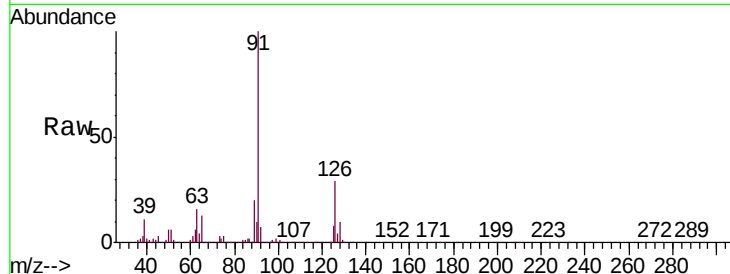




#71
2-Chlorotoluene
Concen: 1.903 ppbv
RT: 15.70 min Scan# 4546
Delta R.T. -0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

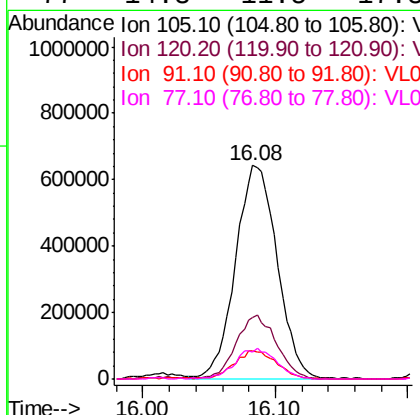
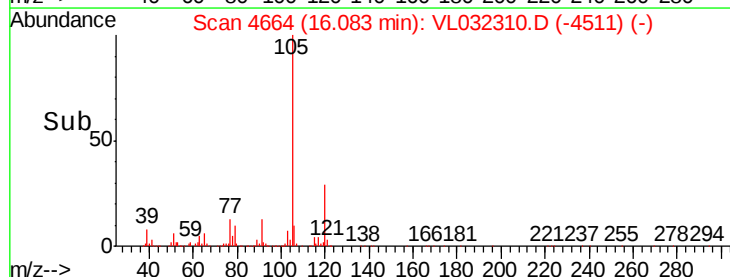
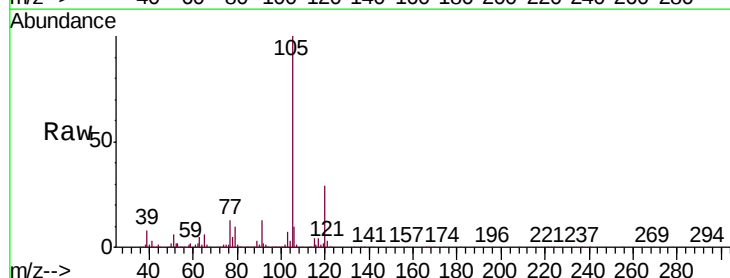
Instrument :
MSVOA_L
ClientSampleId :

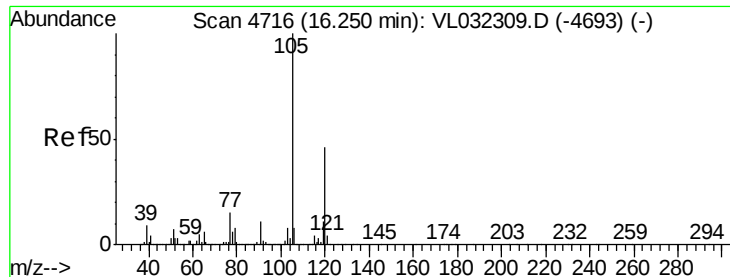
Tot Ion: 91 Resp: 1373367
Ion Ratio Lower Upper
91 100
126 28.7 11.8 47.0



#72
4-Ethyltoluene
Concen: 1.920 ppbv
RT: 16.08 min Scan# 4664
Delta R.T. -0.01 min
Lab File: VL032310.D
Acq: 27 Jul 2018 1:17

Tgt Ion:105 Resp: 1394533
Ion Ratio Lower Upper
105 100
120 29.2 23.1 34.7
91 14.1 10.0 15.0
77 14.3 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 1.926 ppbv

RT: 16.24 min Scan# 4713

Delta R.T. -0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

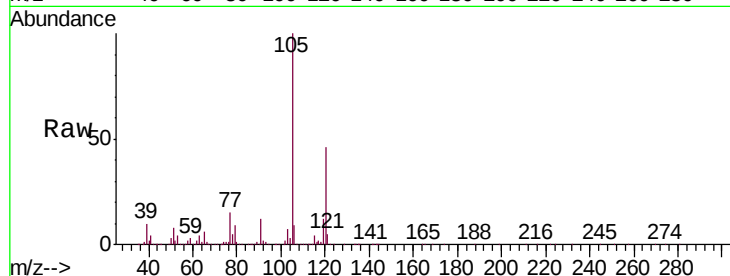
ClientSampleId :

Tot Ion:105 Resp: 1368240

Ion Ratio Lower Upper

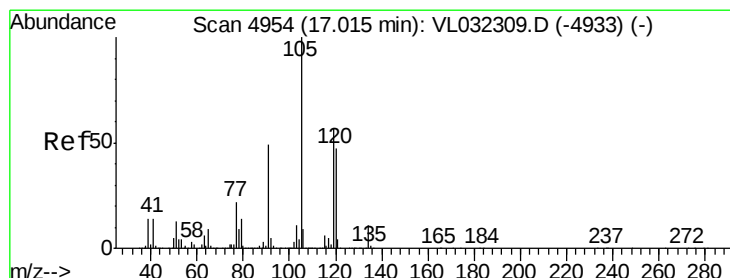
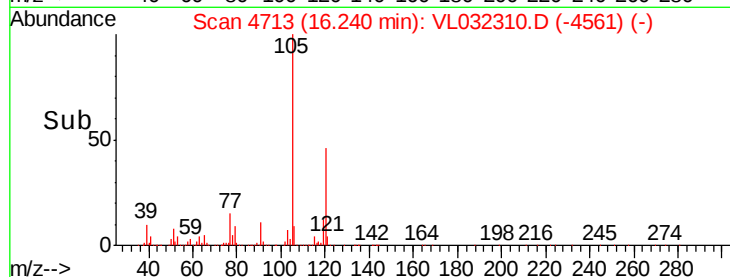
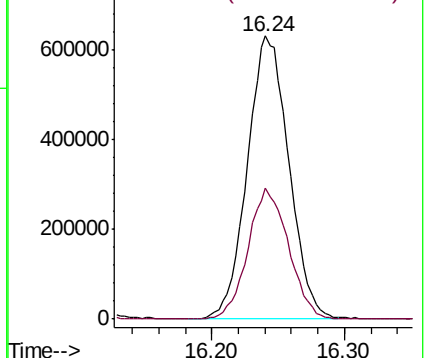
105 100

120 46.1 36.5 54.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.955 ppbv

RT: 17.01 min Scan# 4952

Delta R.T. -0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Tgt Ion:105 Resp: 1460104

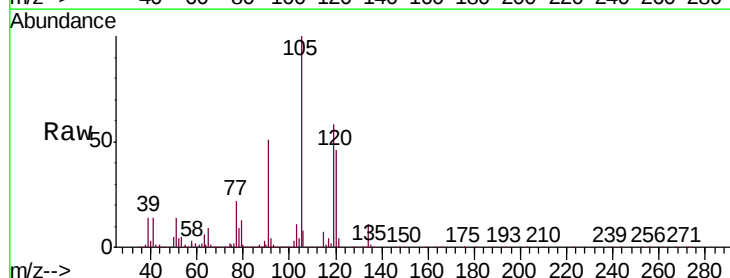
Ion Ratio Lower Upper

105 100

120 45.7 37.8 56.6

91 50.2 39.4 59.0

77 21.3 17.6 26.4

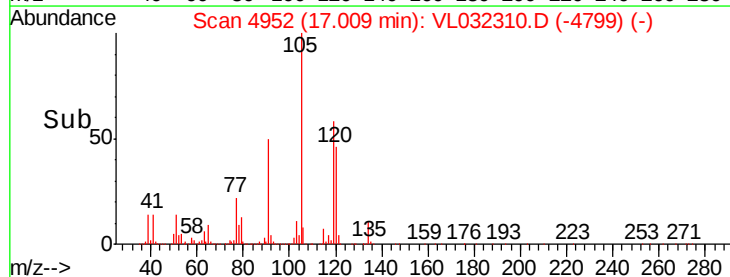
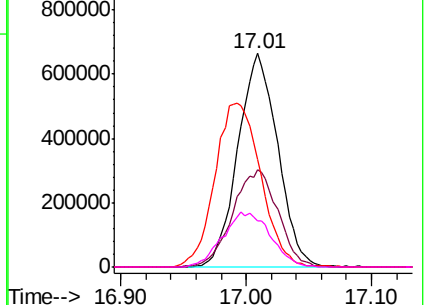


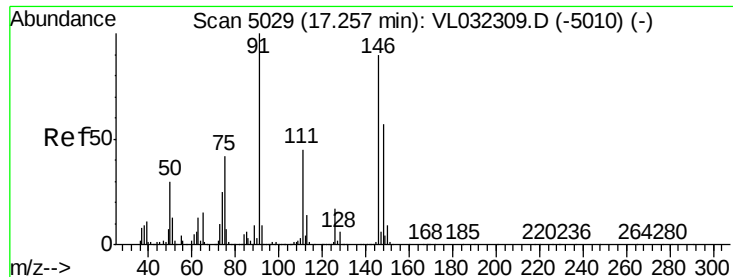
Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.965 ppbv

RT: 17.25 min Scan# 5027

Delta R.T. -0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Instrument :

MSVOA_L

ClientSampled :

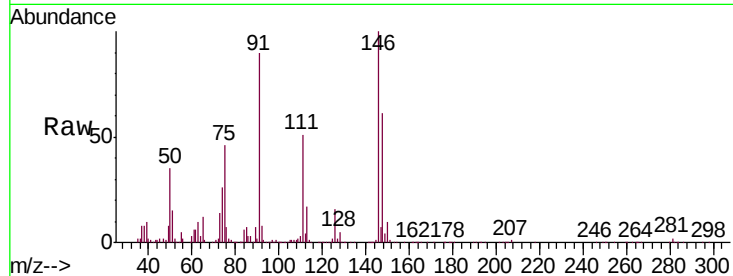
Tot Ion:146 Resp: 818109

Ion Ratio Lower Upper

146 100

111 49.8 24.6 73.8

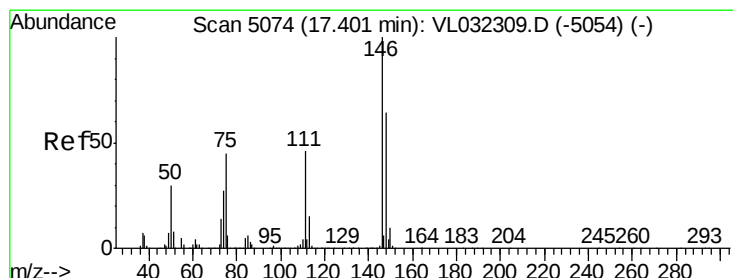
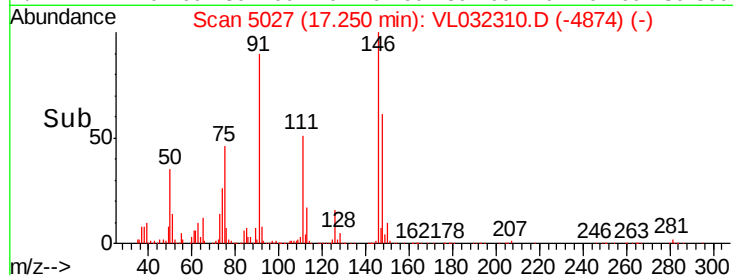
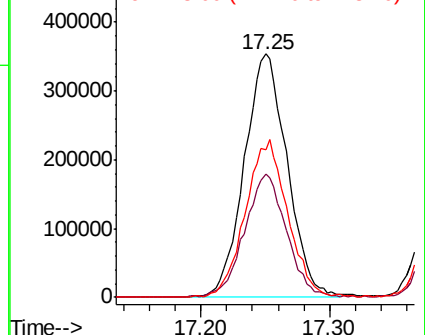
148 64.1 31.6 95.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 1.888 ppbv

RT: 17.39 min Scan# 5072

Delta R.T. -0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

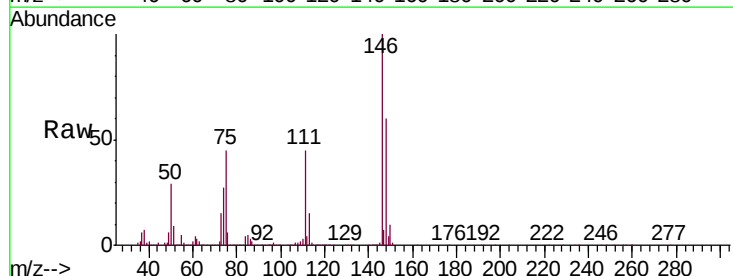
Tgt Ion:146 Resp: 778854

Ion Ratio Lower Upper

146 100

111 47.5 23.6 70.8

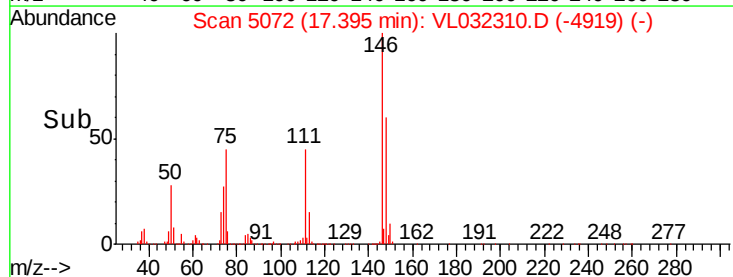
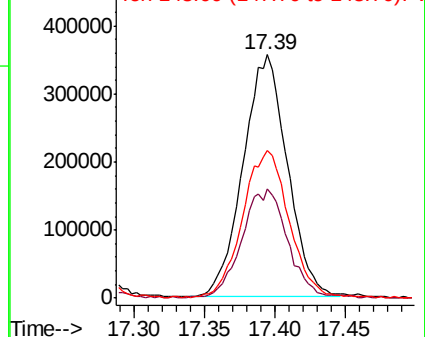
148 64.5 32.1 96.3

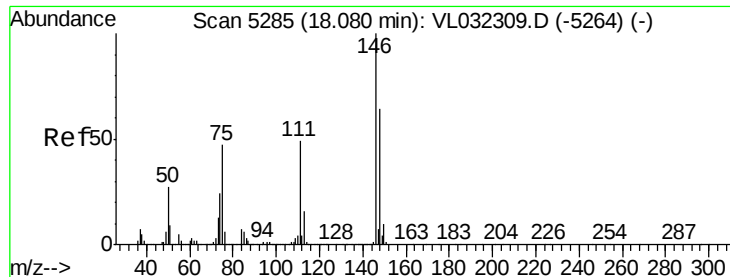


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

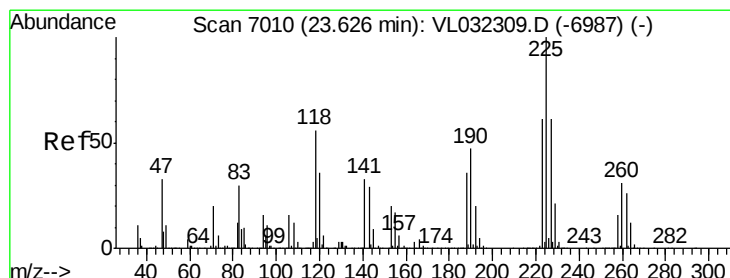
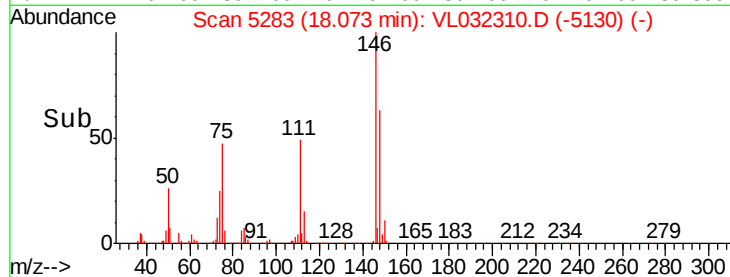
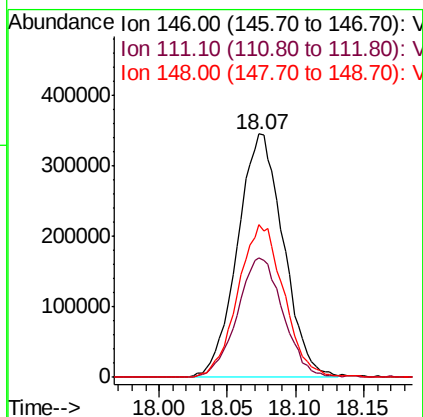
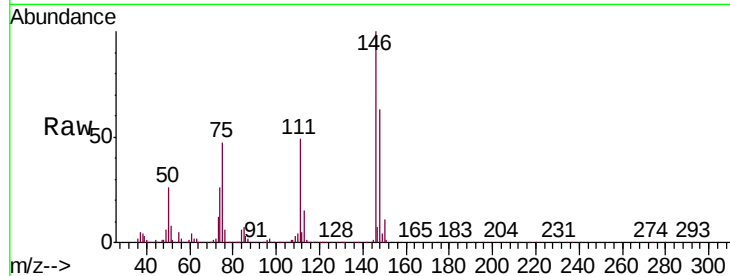




#77
 1,2-Dichlorobenzene
 Concen: 1.980 ppbv
 RT: 18.07 min Scan# 5283
 Delta R.T. -0.01 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

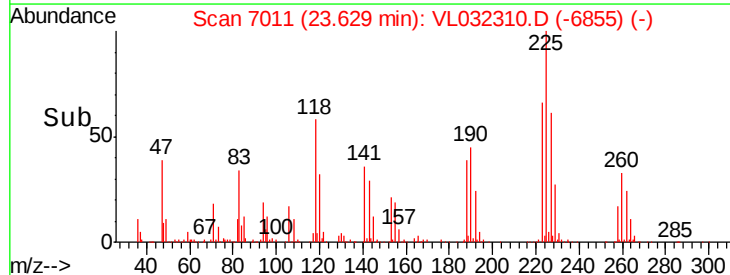
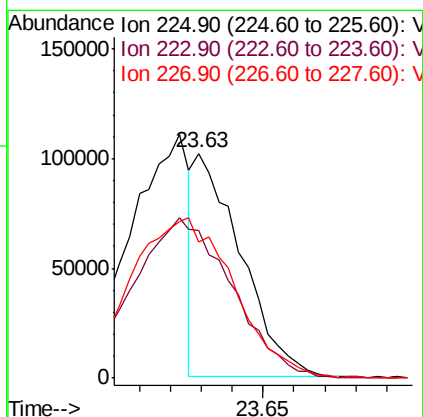
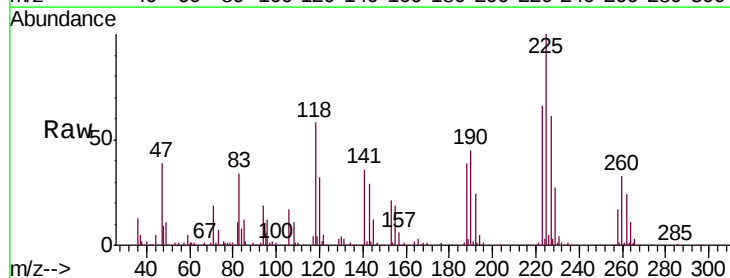
Instrument :
 MSVOA_L
 ClientSampleId :

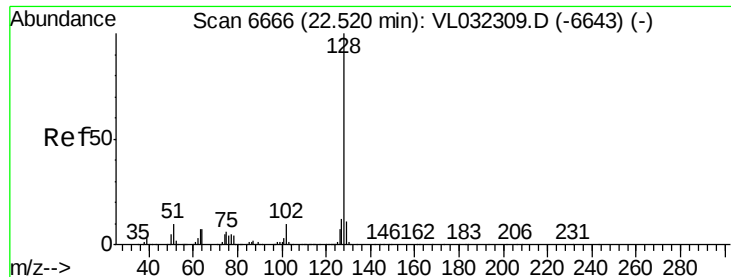
Tot Ion	Ratio	Lower	Upper
146	100		
111	49.5	25.1	75.3
148	63.4	31.9	95.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.793 ppbv
 RT: 23.63 min Scan# 7011
 Delta R.T. 0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.5	75.7#
227	166.7	51.3	76.9#





#79

Naphthalene

Concen: 2.040 ppbv

RT: 22.51 min Scan# 6664

Delta R.T. -0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

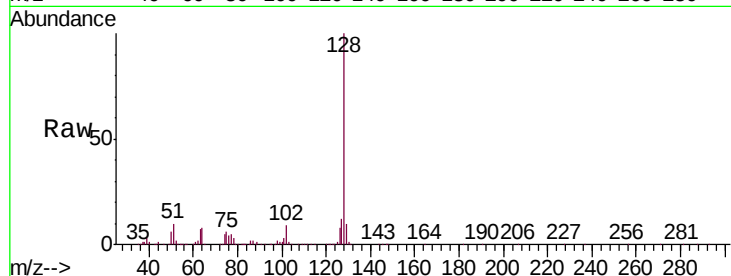
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:128 Resp: 1292962

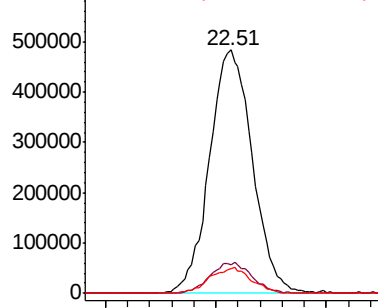
Ion	Ratio	Lower	Upper
128	100		
127	11.6	9.9	14.9
129	10.4	8.8	13.2



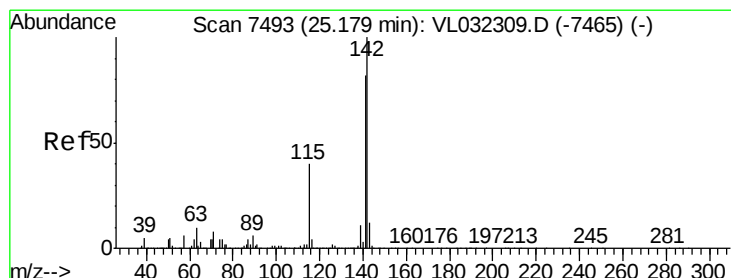
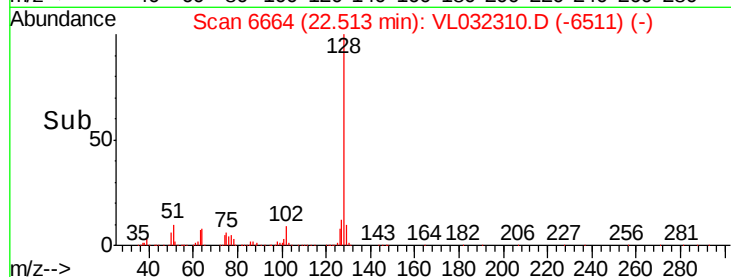
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time--> 22.40 22.50 22.60



#80

Naphthalene, 2-methyl-

Concen: 1.900 ppbv

RT: 25.19 min Scan# 7495

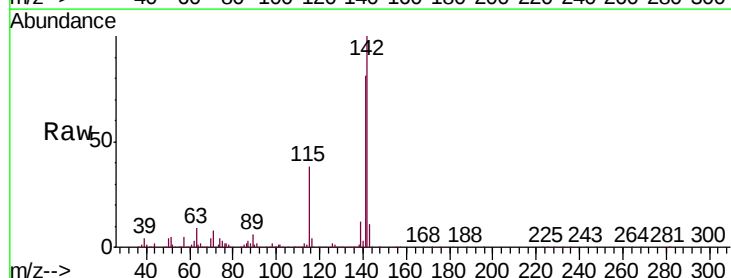
Delta R.T. 0.01 min

Lab File: VL032310.D

Acq: 27 Jul 2018 1:17

Tgt Ion:142 Resp: 511286

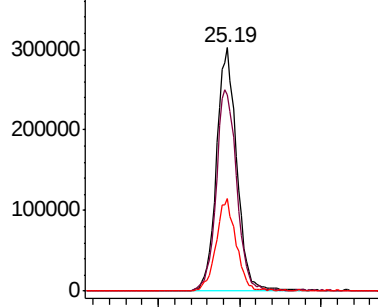
Ion	Ratio	Lower	Upper
142	100		
141	84.0	66.7	100.1
115	38.3	31.1	46.7



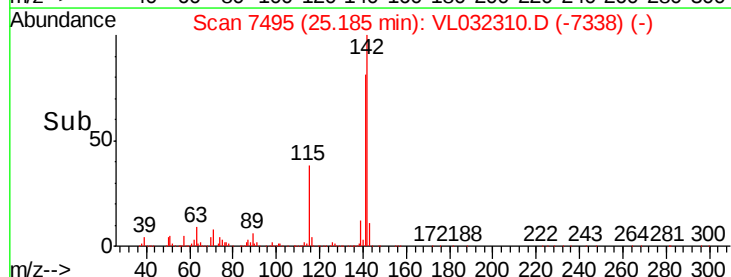
Abundance Ion 142.00 (141.70 to 142.70): V

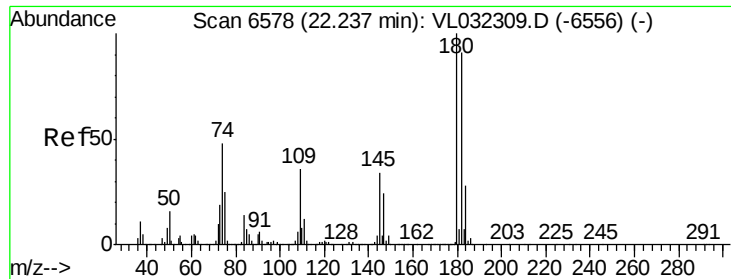
Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



Time--> 25.10 25.20 25.30





#81
 1,2,4-Trichlorobenzene
 Concen: 1.239 ppbv
 RT: 22.23 min Scan# 6577
 Delta R.T. -0.00 min
 Lab File: VL032310.D
 Acq: 27 Jul 2018 1:17

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	158.5	76.2	114.2#
184	50.2	24.3	36.5#

