

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034312.D
 Acq On : 17 Oct 2019 00:40
 Operator : SY/AP
 Sample : K5111-13 0.1 PPB LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 17 05:26:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1039307	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.23	114	1969320	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.17	117	1972486	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1719394	10.29	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	26073	0.146 ppbv	97
3) Chlorodifluoromethane	2.98	51	15292	0.126 ppbv	98
5) Vinyl Chloride	3.25	62	4086	0.059 ppbv #	70
6) Bromomethane	3.47	94	4436	0.132 ppbv #	58
7) Chloroethane	3.55	64	879	0.036 ppbv	90
8) Dichlorotetrafluoroethane	3.18	85	17542	0.113 ppbv	87
9) Propene	3.00	41	4869	0.090 ppbv #	34
11) Trichlorofluoromethane	3.96	101	21346	0.125 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.49	101	3400	0.031 ppbv #	14
13) Ethanol	3.63	45	2074	0.172 ppbv	62
14) Bromoethene	3.75	108	2432	0.055 ppbv #	18
15) Acetone	3.88	43	36237	0.244 ppbv	92
16) 1,3-Butadiene	3.33	39	4739	0.078 ppbv #	61
18) 1,1-Dichloroethene	4.30	96	2215	0.045 ppbv #	80
19) Isopropyl Alcohol	4.01	45	11237	0.136 ppbv #	86
20) Methylene Chloride	4.36	84	9961	0.185 ppbv #	85
21) Allyl Chloride	4.43	41	7612	0.093 ppbv #	61
22) trans-1,2-Dichloroethene	4.92	96	5926	0.122 ppbv #	86
23) Vinyl Acetate	5.11	43	17368	0.094 ppbv #	75
24) 1,1-Dichloroethane	5.04	63	14862	0.108 ppbv #	91
25) Ethyl Acetate	5.73	43	17406	0.069 ppbv #	78
26) Hexane	5.73	57	9639	0.090 ppbv #	66
27) Carbon Disulfide	4.57	76	8212	0.074 ppbv #	86
28) Methyl tert-Butyl Ether	5.08	73	10364	0.064 ppbv #	66
29) Chloroform	5.79	83	8180	0.048 ppbv	97
32) 1,1,1-Trichloroethane	6.56	97	15168	0.092 ppbv #	86
35) Carbon Tetrachloride	7.07	117	10319	0.060 ppbv	96
37) 1,2-Dichloroethane	6.35	62	5571	0.040 ppbv #	73
38) Trichloroethene	7.89	130	2291	0.030 ppbv #	73
39) 1,2-Dichloropropane	7.67	63	7552	0.093 ppbv	91
42) Bromodichloromethane	7.86	83	8088	0.047 ppbv #	84
44) 2,2,4-Trimethylpentane	7.93	57	24808	0.071 ppbv #	70
45) t-1,3-Dichloropropene	9.36	75	4734	0.050 ppbv #	72
47) 1,1,2-Trichloroethane	9.55	97	7154	0.087 ppbv	97
48) Dibromochloromethane	10.38	129	4285	0.032 ppbv #	1
52) Tetrachloroethene	11.31	164	3200	0.043 ppbv	95
53) Toluene	9.87	91	10405	0.050 ppbv #	57
54) 1,2-Dibromoethane	10.70	107	7070	0.058 ppbv #	40
56) 1,1,1,2-Tetrachloroethane	12.21	131	3814	0.042 ppbv #	1
57) Chlorobenzene	12.23	112	8110	0.049 ppbv #	73
59) m/p-Xylene	13.08	91	16364	0.068 ppbv #	22

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 Response via : Initial Calibration

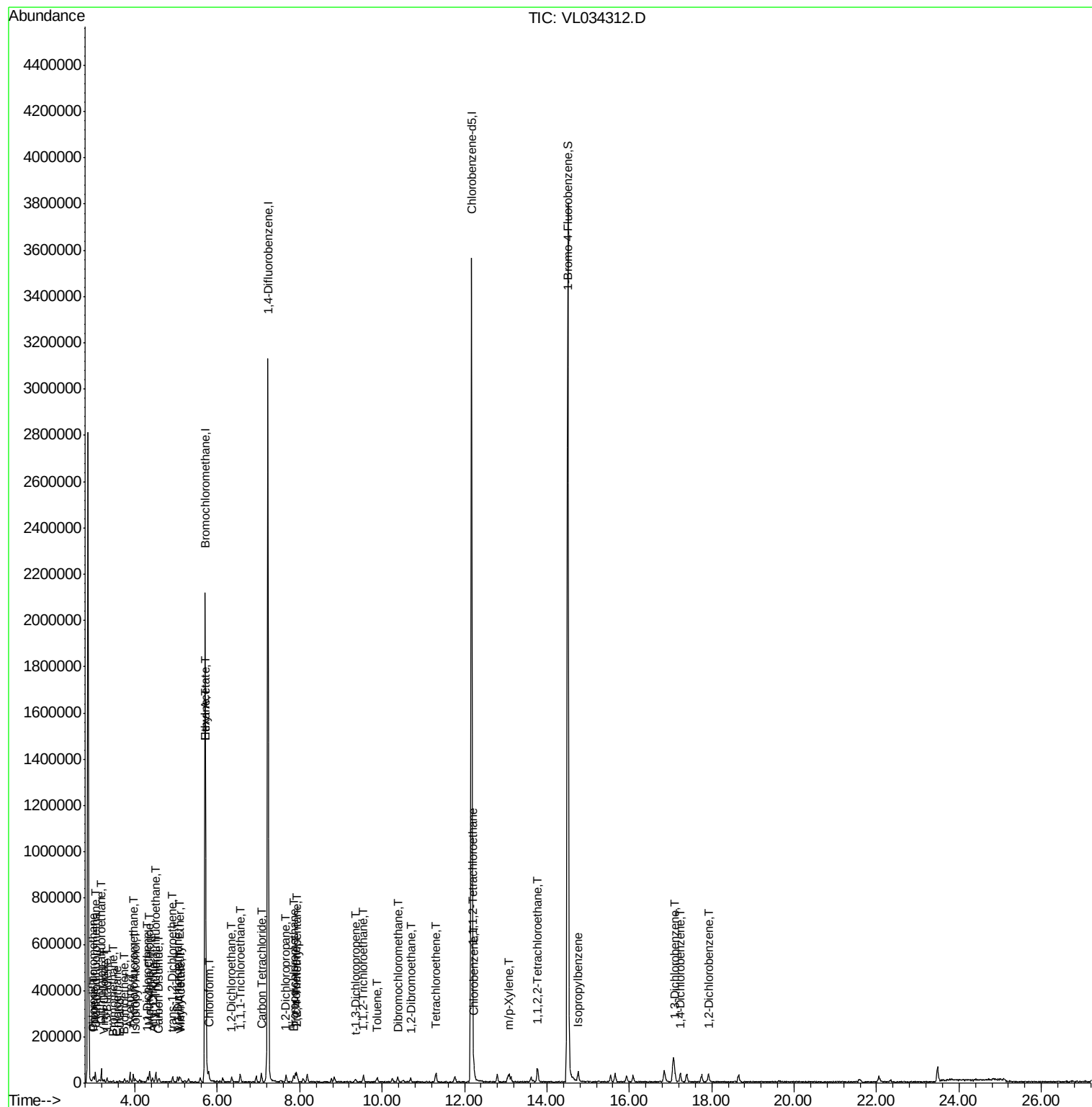
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.75	105	20462	0.065	ppbv #	88
63) 1,1,2,2-Tetrachloroethane	13.77	83	16229	0.085	ppbv	75
75) 1,3-Dichlorobenzene	17.10	146	6894	0.042	ppbv #	1
76) 1,4-Dichlorobenzene	17.25	146	5439	0.034	ppbv #	22
77) 1,2-Dichlorobenzene	17.92	146	5924	0.036	ppbv #	1

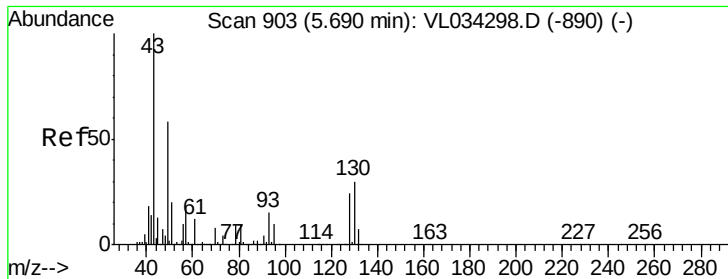
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.01 min

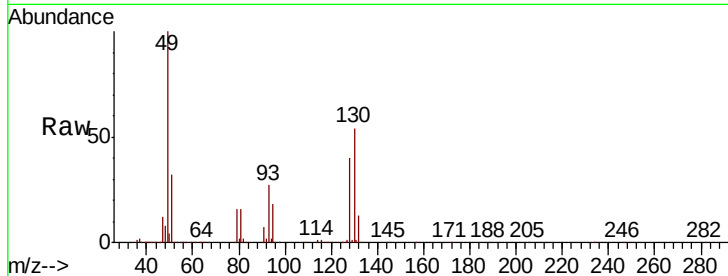
Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1039307

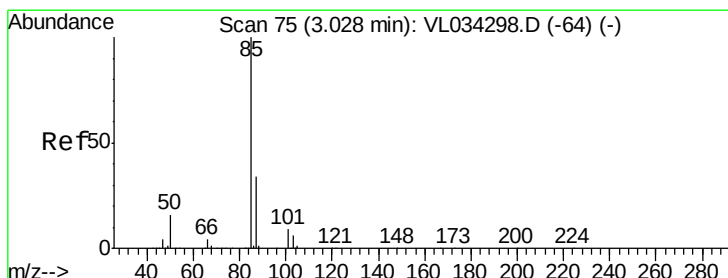
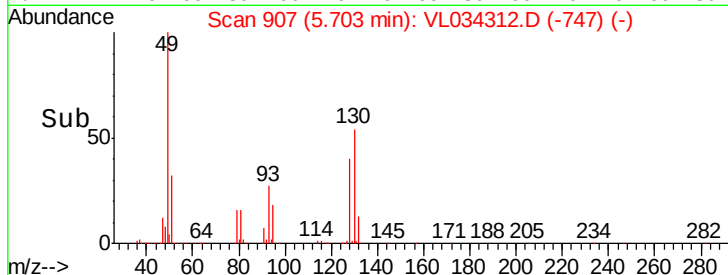
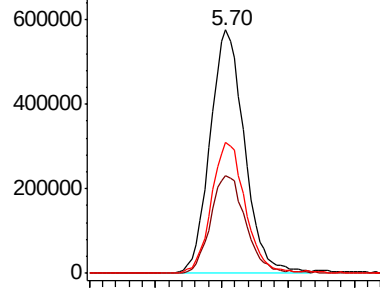
Ion	Ratio	Lower	Upper
49	100		
128	41.4	20.6	61.8
130	53.6	26.2	78.5



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: 0.146 ppbv

RT: 3.04 min Scan# 78

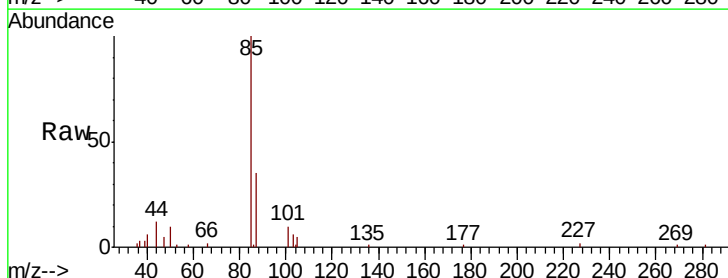
Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

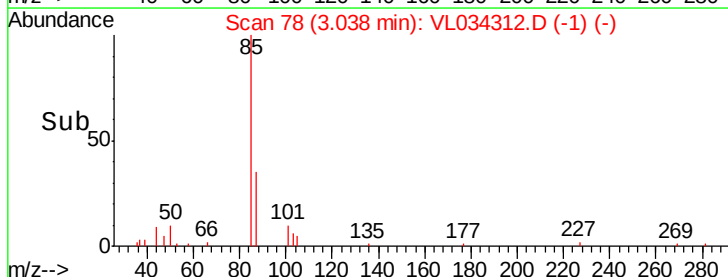
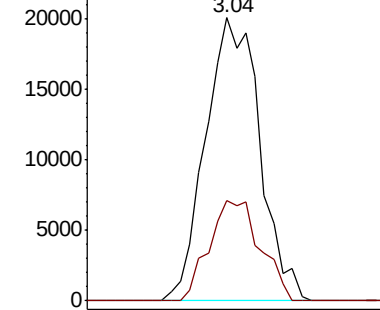
Tgt Ion: 85 Resp: 26073

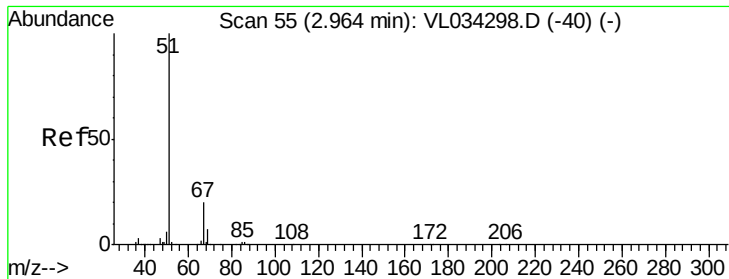
Ion	Ratio	Lower	Upper
85	100		
87	35.2	27.0	40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.126 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

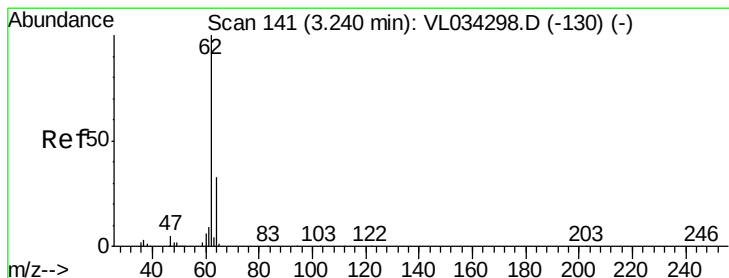
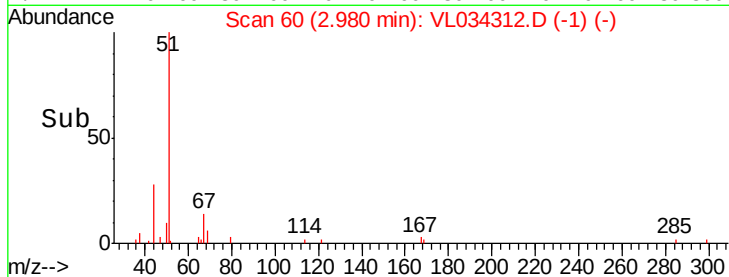
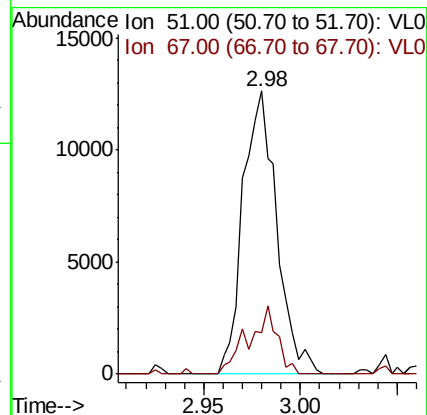
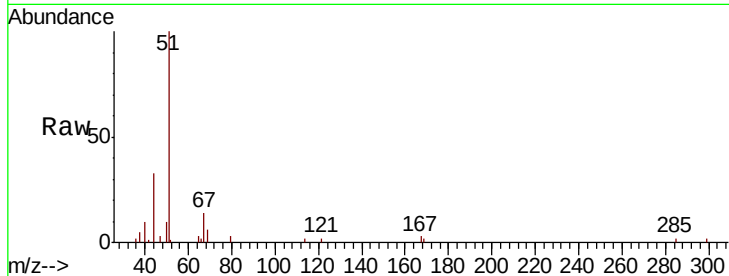
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 15292

Ion Ratio Lower Upper

51 100

67 20.5 15.8 23.8



#5

Vinyl Chloride

Concen: 0.059 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.01 min

Lab File: VL034312.D

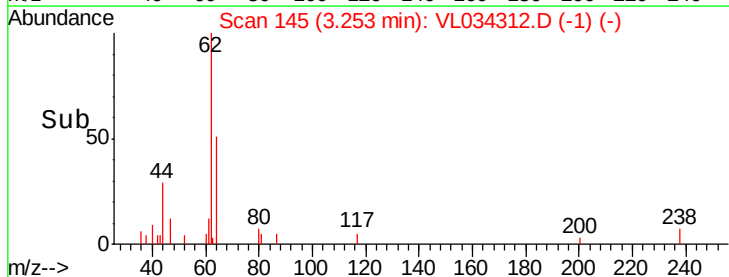
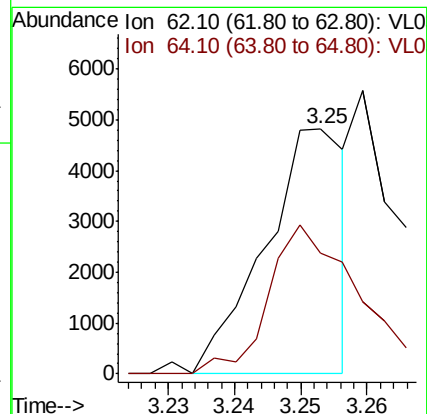
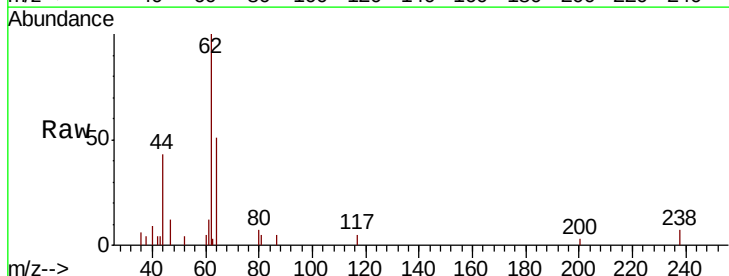
Acq: 17 Oct 2019 00:40

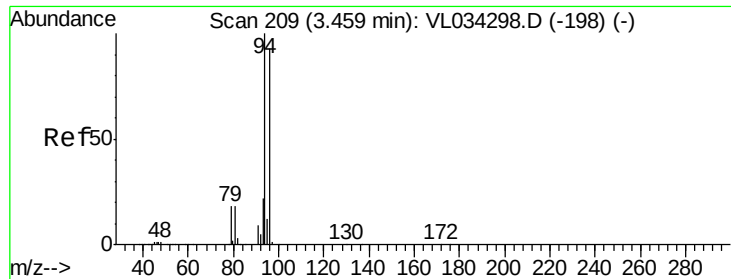
Tgt Ion: 62 Resp: 4086

Ion Ratio Lower Upper

62 100

64 49.4 26.0 39.0#





#6

Bromomethane

Concen: 0.132 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

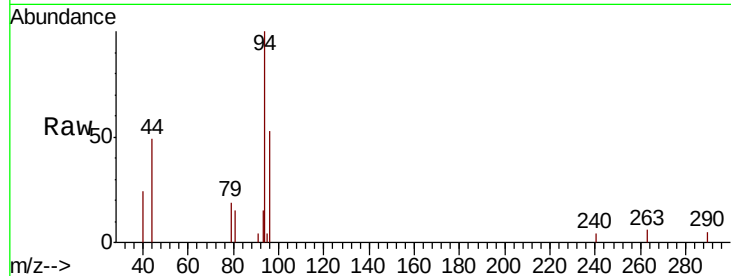
ClientSampleId :

Tot Ion: 94 Resp: 4436

Ion Ratio Lower Upper

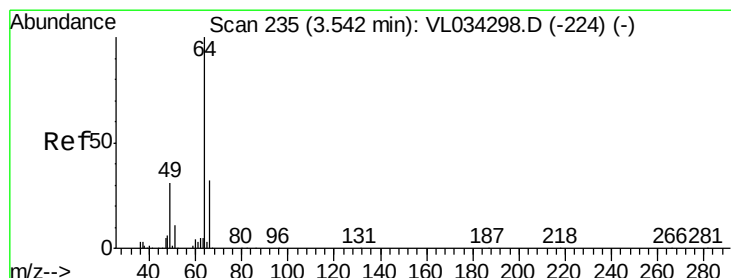
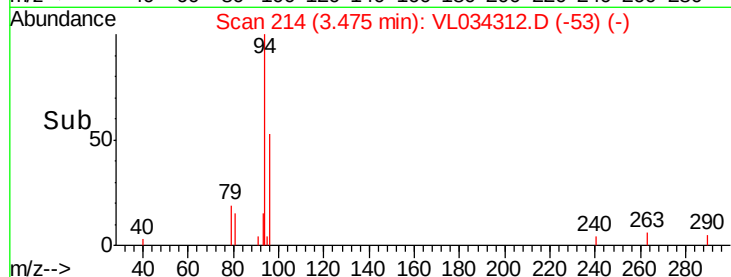
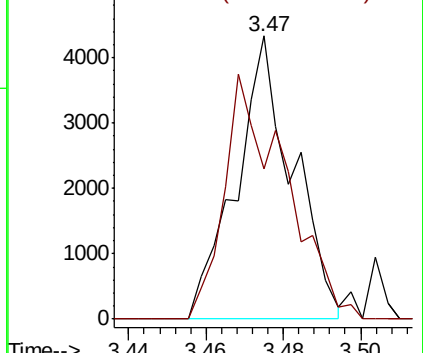
94 100

96 53.0 74.6 112.0#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.036 ppbv

RT: 3.55 min Scan# 238

Delta R.T. 0.01 min

Lab File: VL034312.D

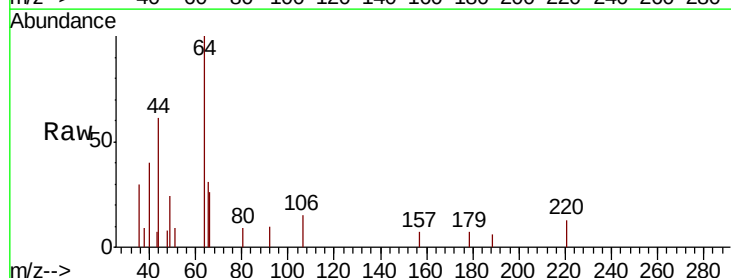
Acq: 17 Oct 2019 00:40

Tgt Ion: 64 Resp: 879

Ion Ratio Lower Upper

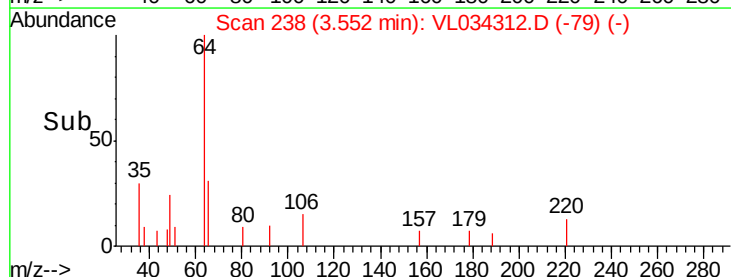
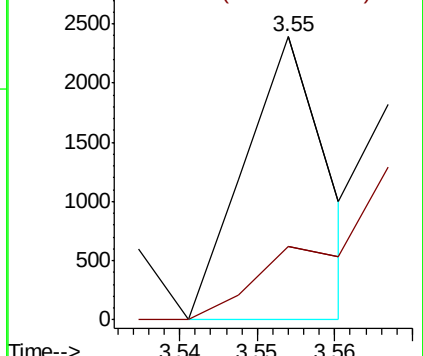
64 100

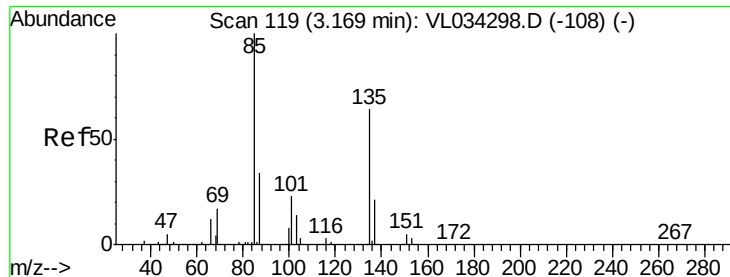
66 25.9 25.4 38.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.113 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

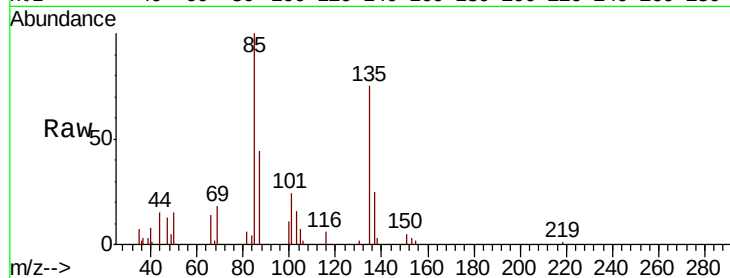
ClientSampleId :

Tot Ion: 85 Resp: 17542

Ion Ratio Lower Upper

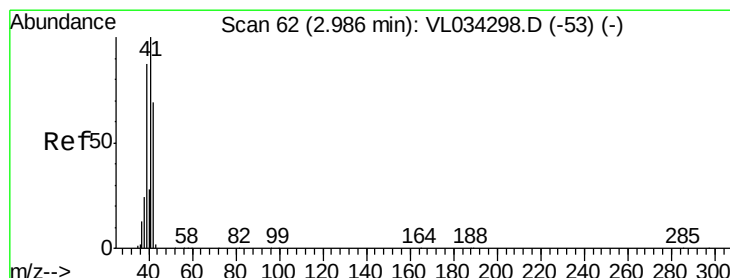
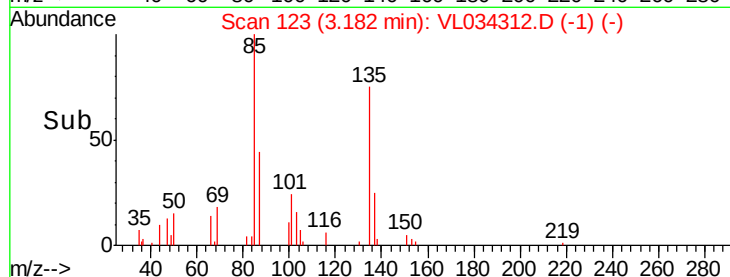
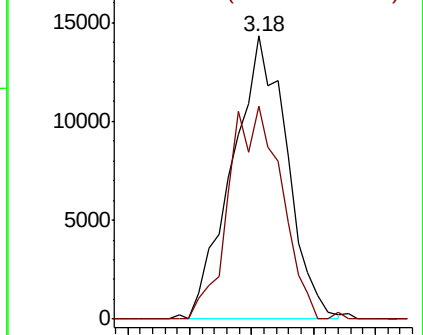
85 100

135 73.1 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.090 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL034312.D

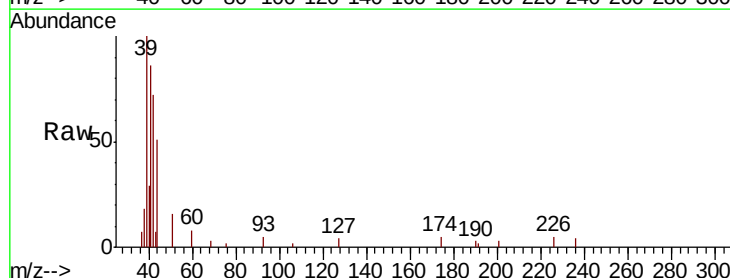
Acq: 17 Oct 2019 00:40

Tgt Ion: 41 Resp: 4869

Ion Ratio Lower Upper

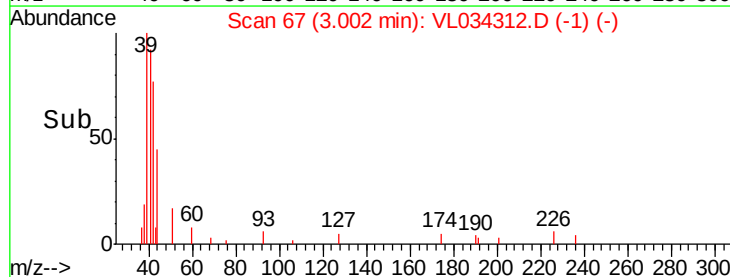
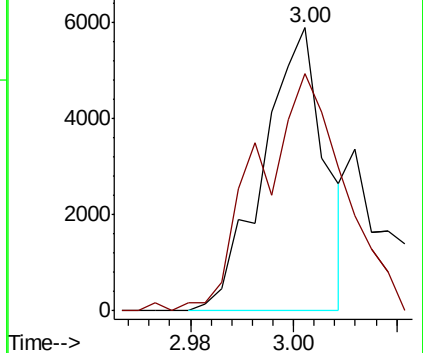
41 100

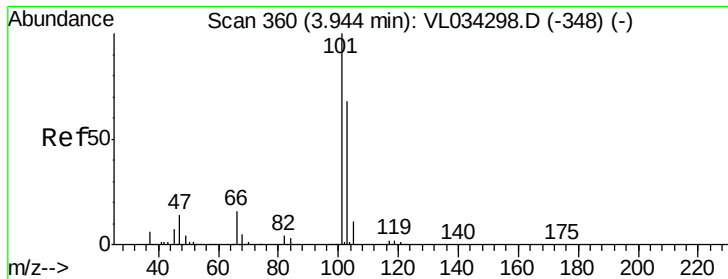
42 120.3 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

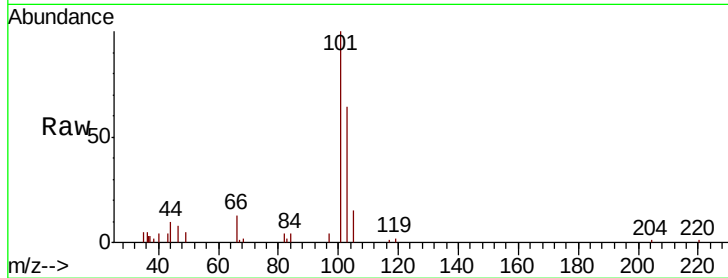




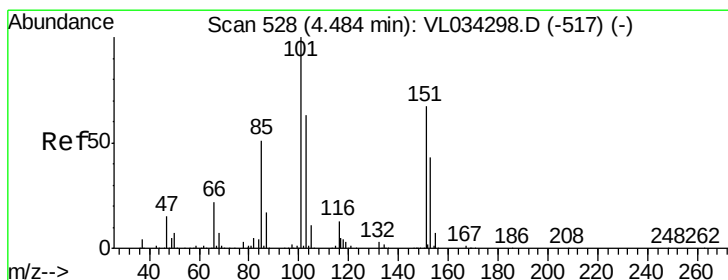
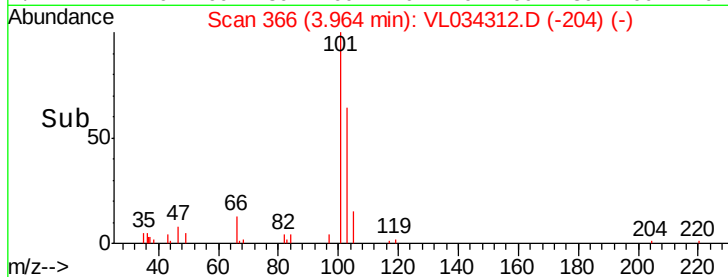
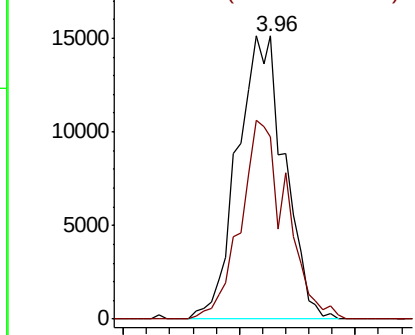
#11
 Trichlorofluoromethane
 Concen: 0.125 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:101 Resp: 21346
 Ion Ratio Lower Upper
 101 100
 103 64.3 54.5 81.7

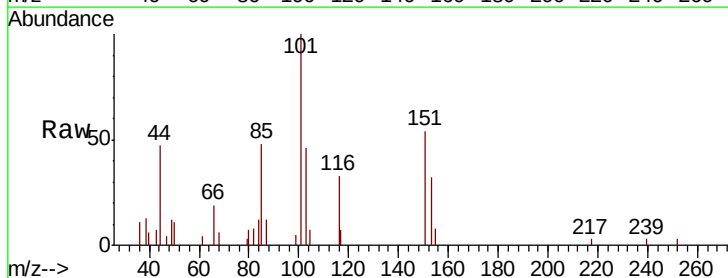


Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 103.00 (102.70 to 103.70): V

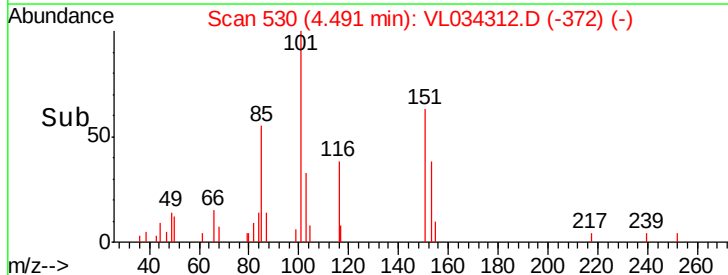
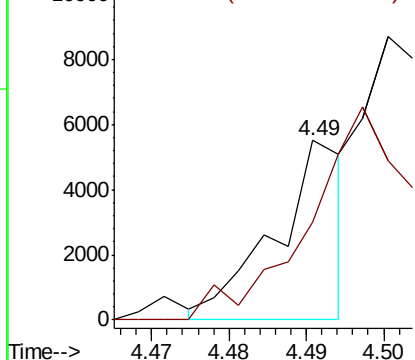


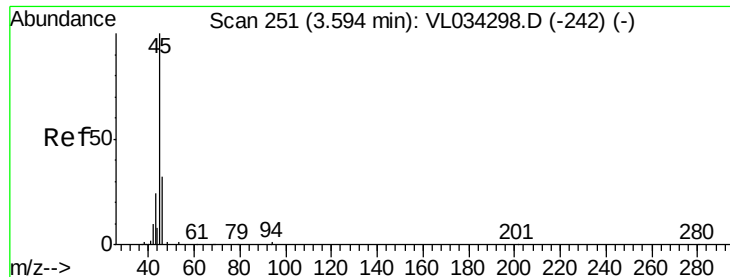
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.031 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion:101 Resp: 3400
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.4 86.2#



Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.172 ppbv

RT: 3.63 min Scan# 262

Delta R.T. 0.04 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

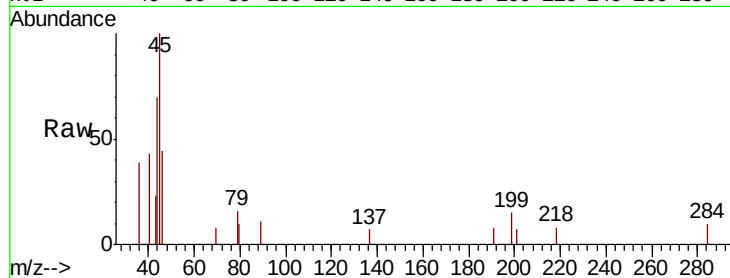
ClientSampleId :

Tot Ion: 45 Resp: 2074

Ion Ratio Lower Upper

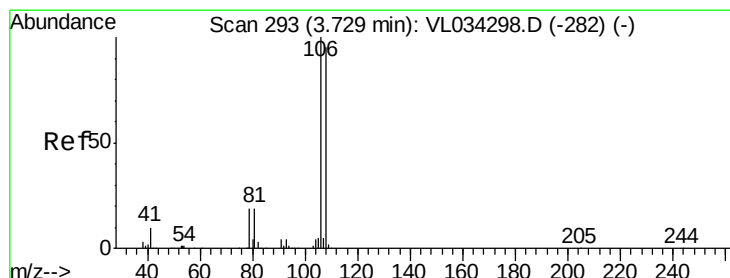
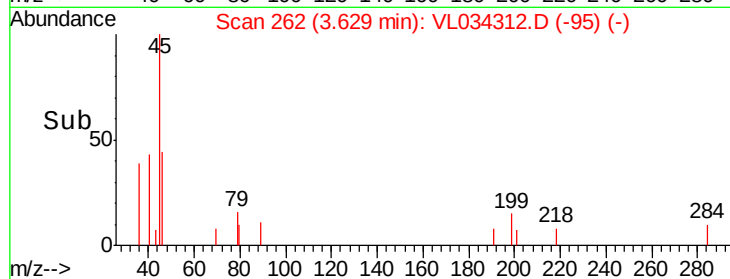
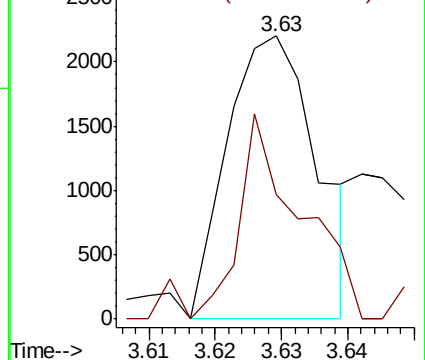
45 100

46 62.5 15.8 63.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.055 ppbv

RT: 3.75 min Scan# 299

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

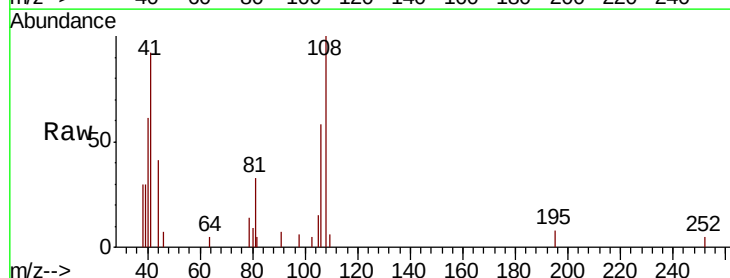
Tgt Ion: 108 Resp: 2432

Ion Ratio Lower Upper

108 100

106 188.8 84.8 127.2#

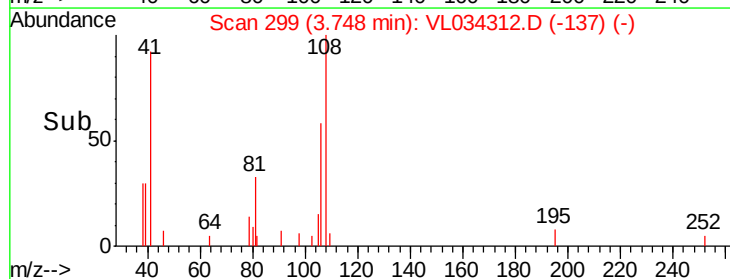
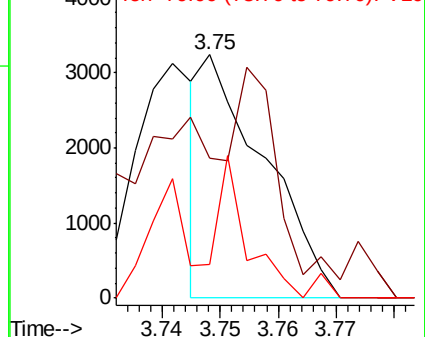
79 65.2 17.0 25.4#

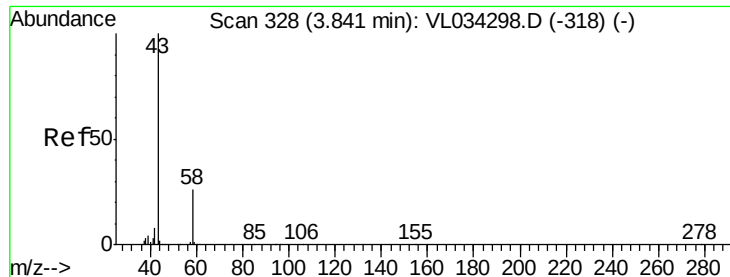


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 0.244 ppbv

RT: 3.88 min Scan# 339

Delta R.T. 0.04 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

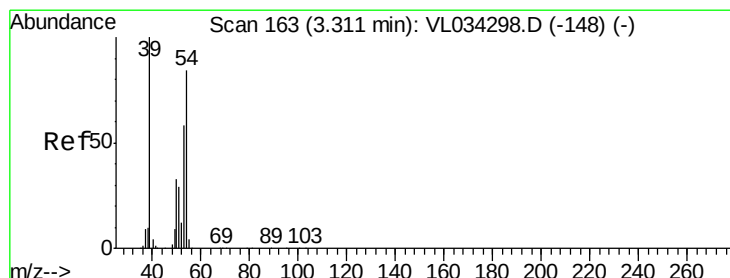
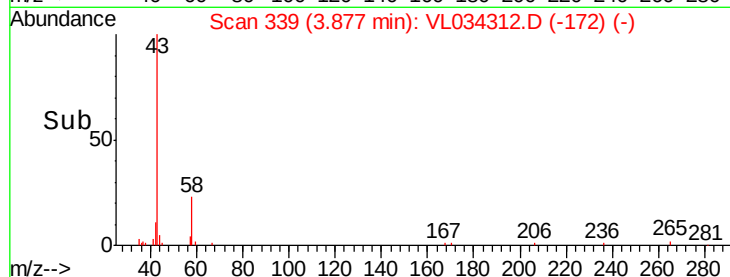
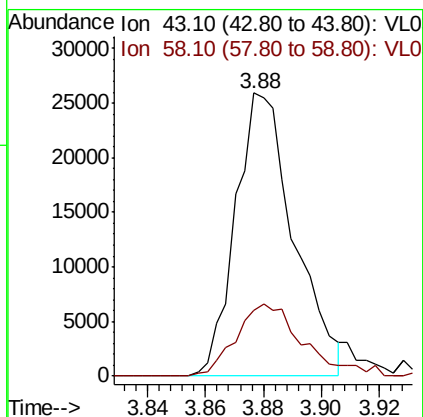
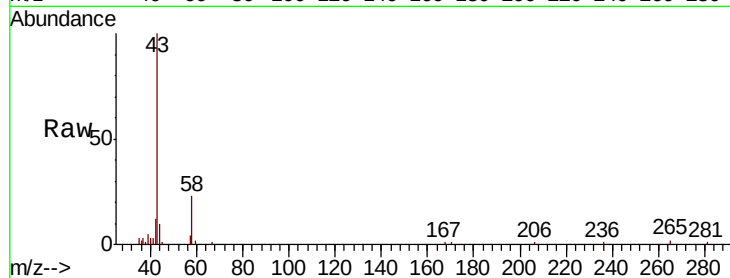
ClientSampleId :

Tot Ion: 43 Resp: 36237

Ion Ratio Lower Upper

43 100

58 29.4 20.4 30.6



#16

1,3-Butadiene

Concen: 0.078 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.02 min

Lab File: VL034312.D

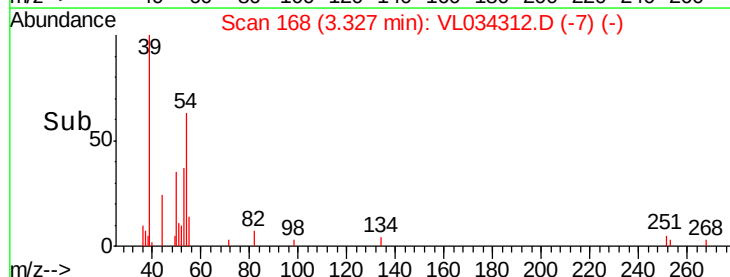
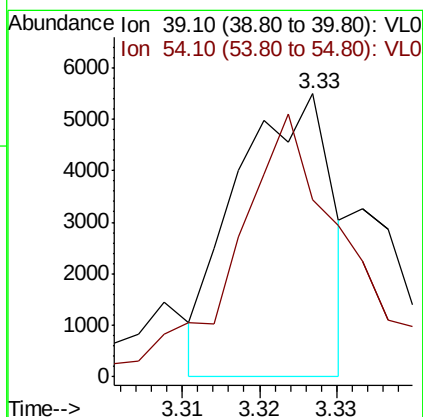
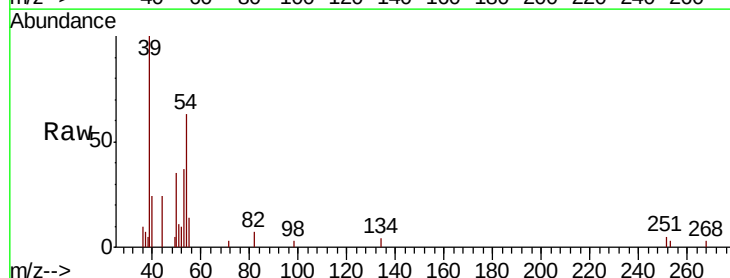
Acq: 17 Oct 2019 00:40

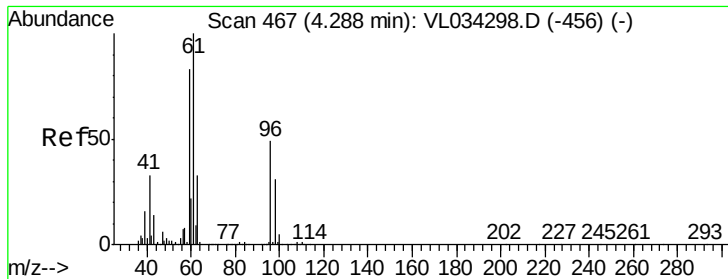
Tgt Ion: 39 Resp: 4739

Ion Ratio Lower Upper

39 100

54 114.7 63.9 95.9#

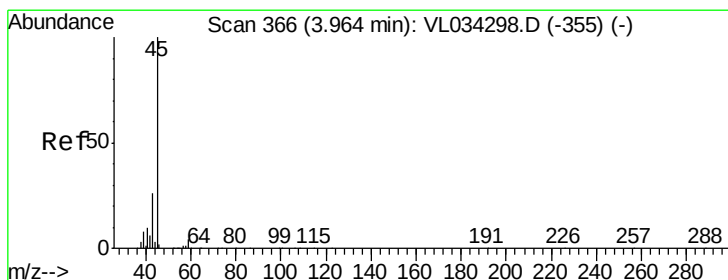
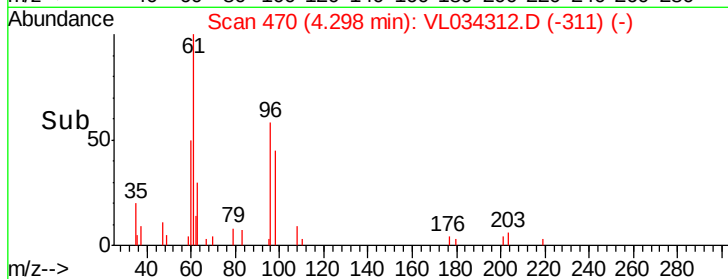
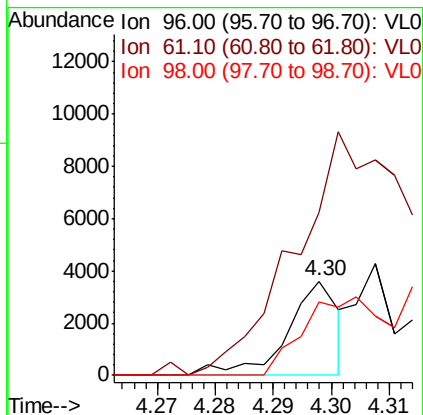
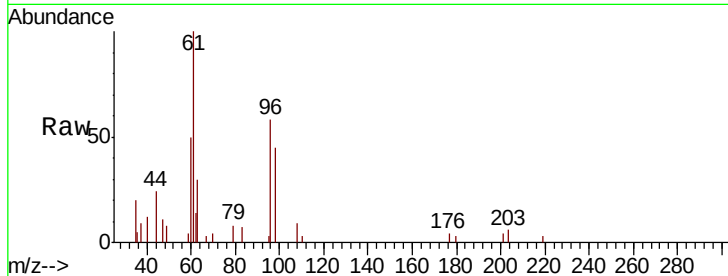




#18
 1,1-Dichloroethene
 Concen: 0.045 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

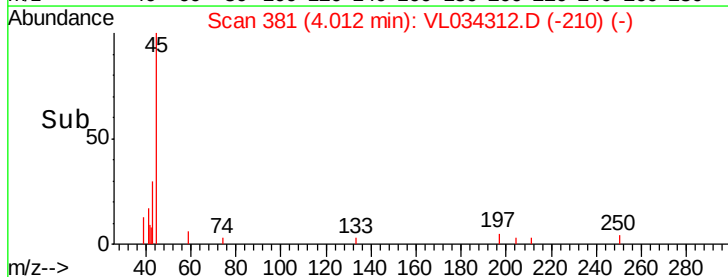
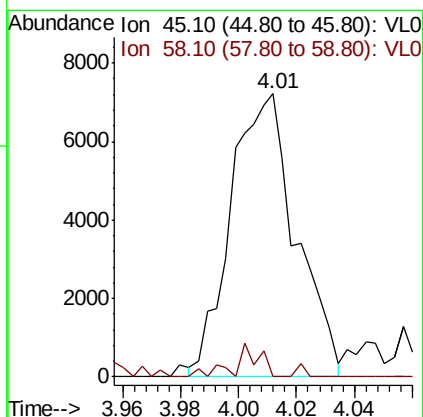
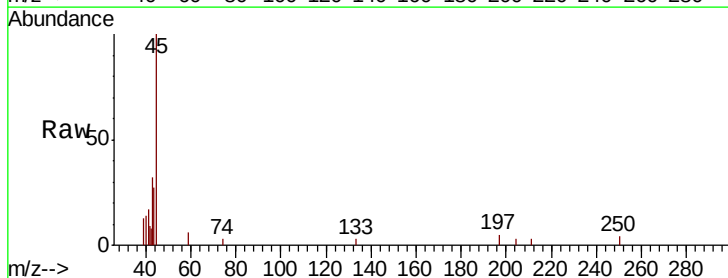
Instrument :
 MSVOA_L
 ClientSampleId :

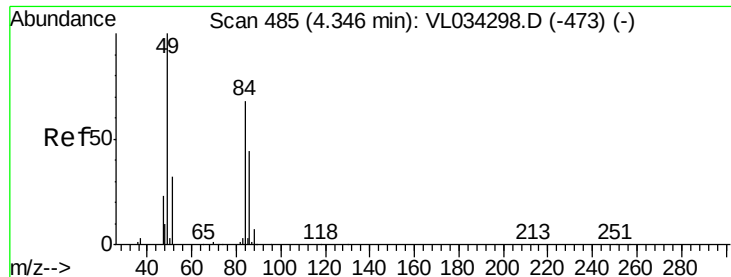
Tot Ion: 96 Resp: 2215
 Ion Ratio Lower Upper
 96 100
 61 173.6 164.5 246.7
 98 78.3 51.7 77.5#



#19
 Isopropyl Alcohol
 Concen: 0.136 ppbv
 RT: 4.01 min Scan# 381
 Delta R.T. 0.05 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion: 45 Resp: 11237
 Ion Ratio Lower Upper
 45 100
 58 6.9 1.4 2.2#

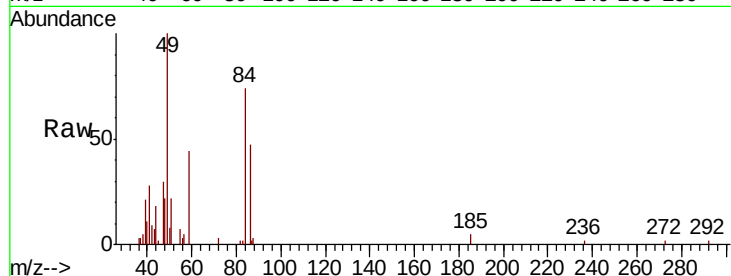




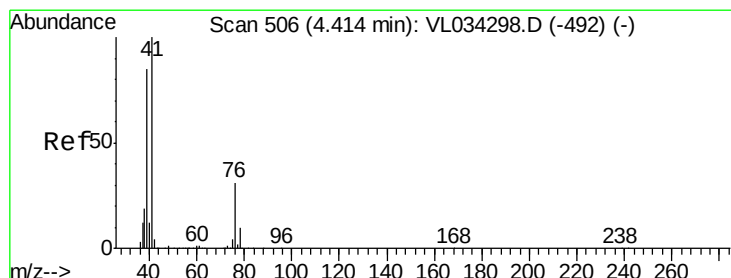
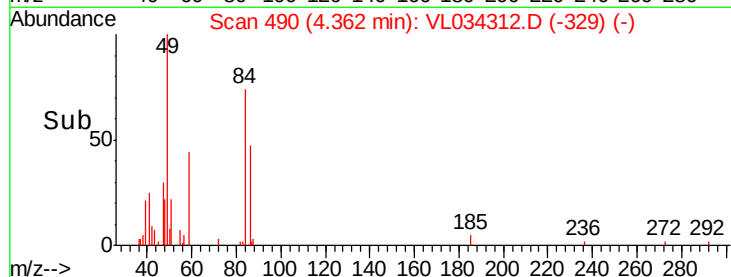
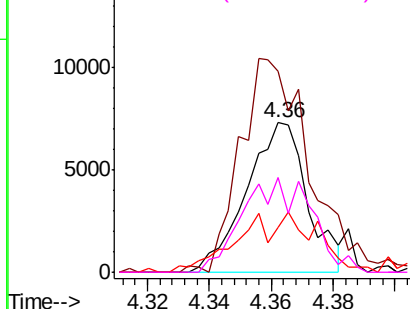
#20
Methylene Chloride
Concen: 0.185 ppbv
RT: 4.36 min Scan# 490
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 9961
Ion Ratio Lower Upper
84 100
49 130.3 118.5 177.7
51 26.2 38.8 58.2#
86 63.1 51.7 77.5

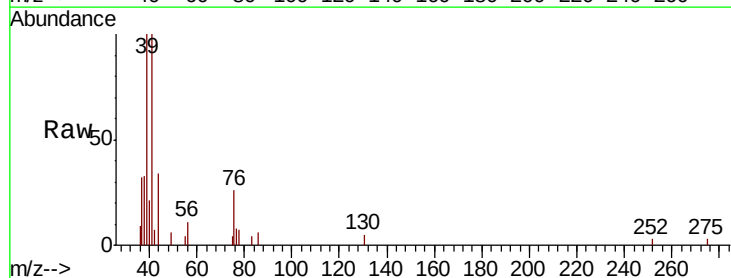


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

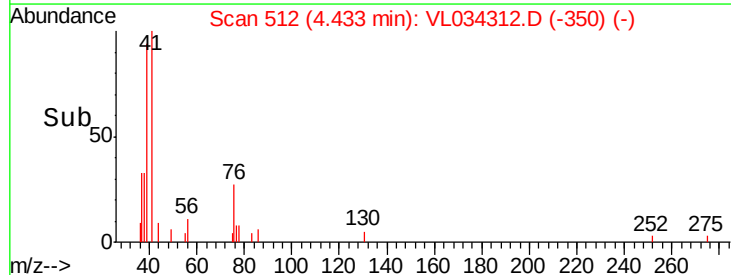
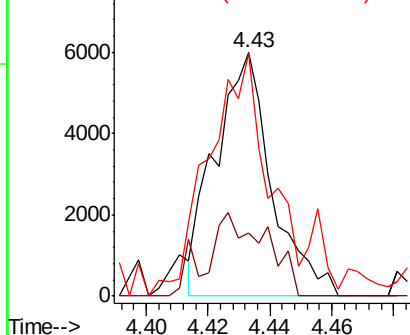


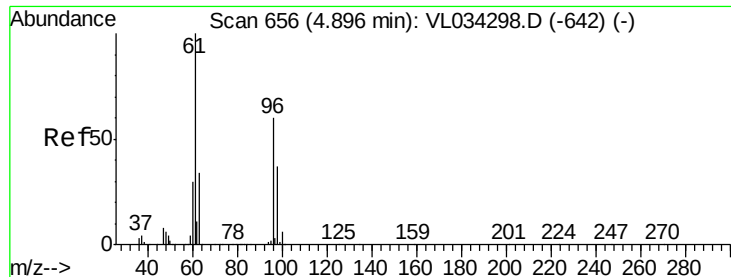
#21
Allyl Chloride
Concen: 0.093 ppbv
RT: 4.43 min Scan# 512
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion: 41 Resp: 7612
Ion Ratio Lower Upper
41 100
76 37.2 22.8 34.2#
39 123.9 66.0 99.0#



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: 0.122 ppbv

RT: 4.92 min Scan# 662

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

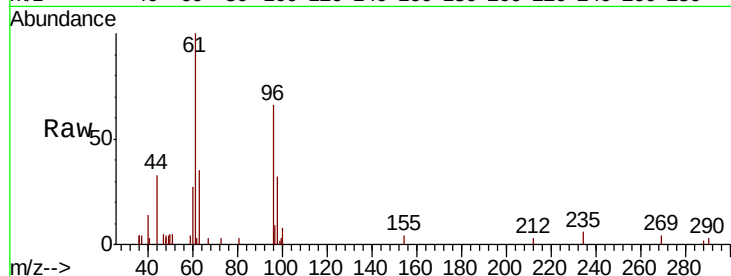
Tot Ion: 96 Resp: 5926

Ion Ratio Lower Upper

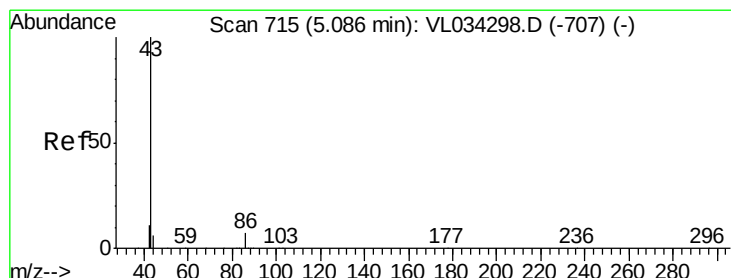
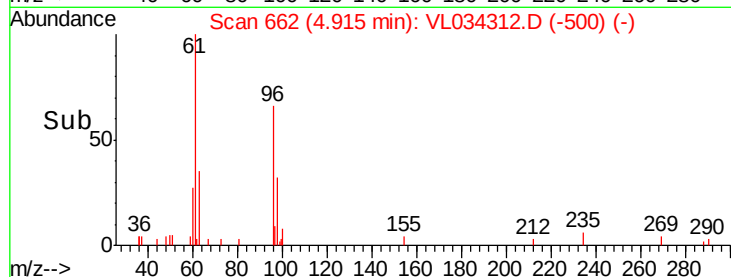
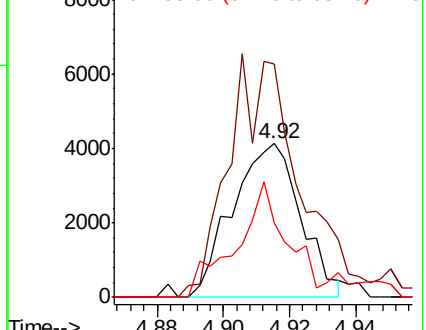
96 100

61 148.8 133.8 200.6

98 48.8 49.4 74.0#



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: 0.094 ppbv

RT: 5.11 min Scan# 723

Delta R.T. 0.03 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion: 43 Resp: 17368

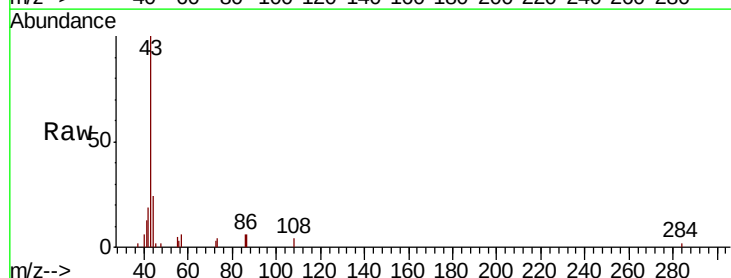
Ion Ratio Lower Upper

43 100

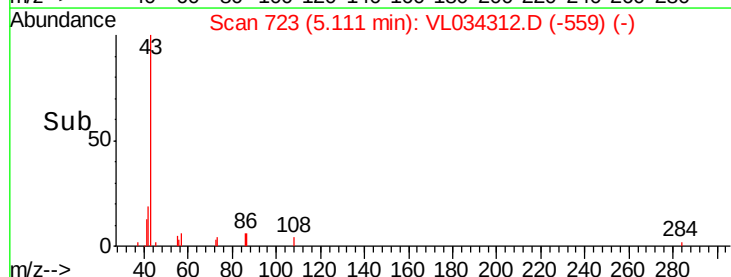
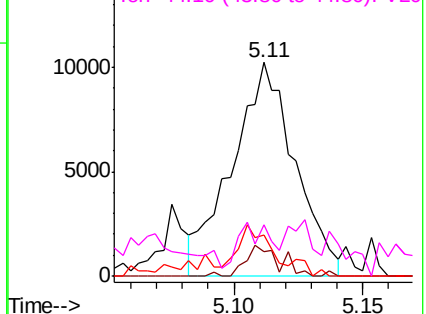
86 12.6 5.0 7.4#

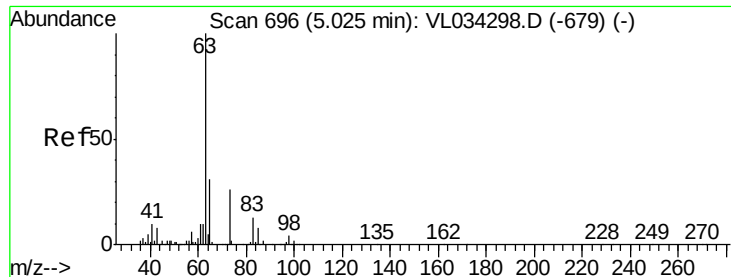
42 20.9 8.6 13.0#

44 15.1 4.8 7.2#



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

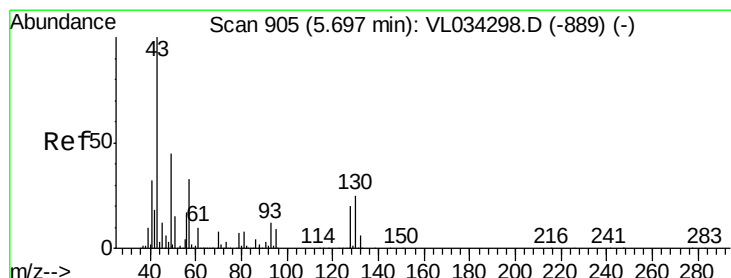
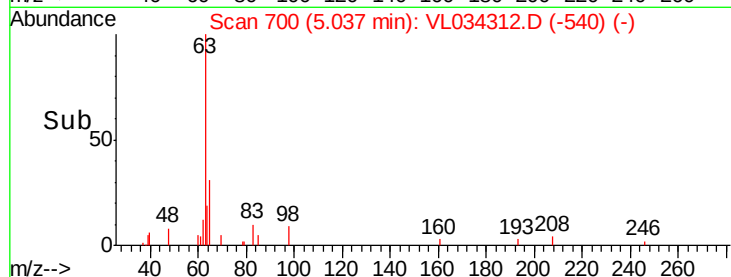
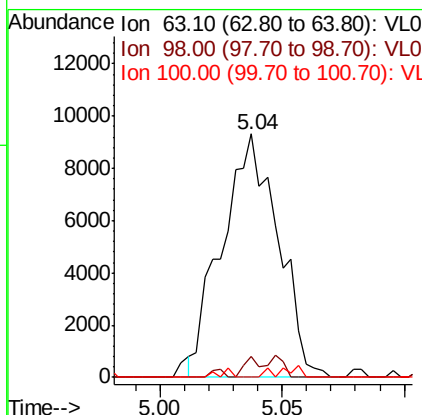
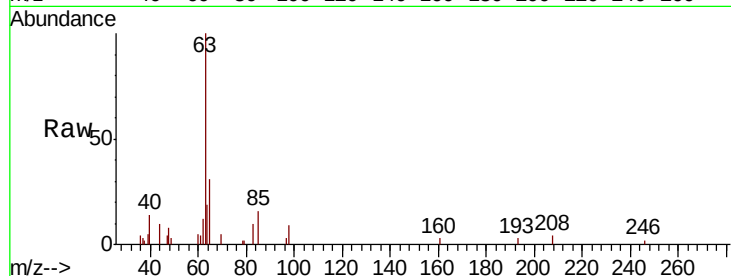




#24
1,1-Dichloroethane
Concen: 0.108 ppbv
RT: 5.04 min Scan# 700
Delta R.T. 0.01 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

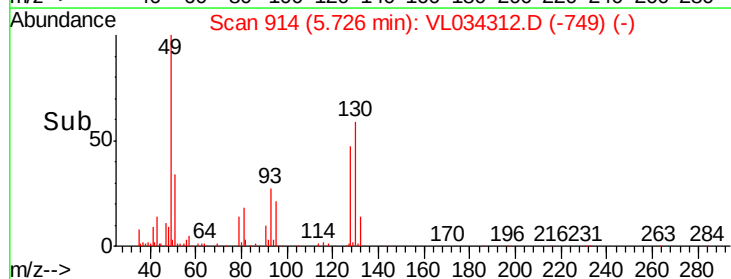
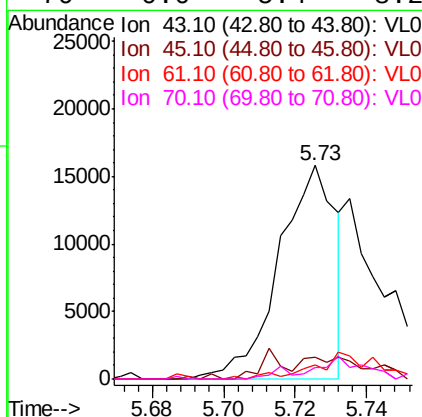
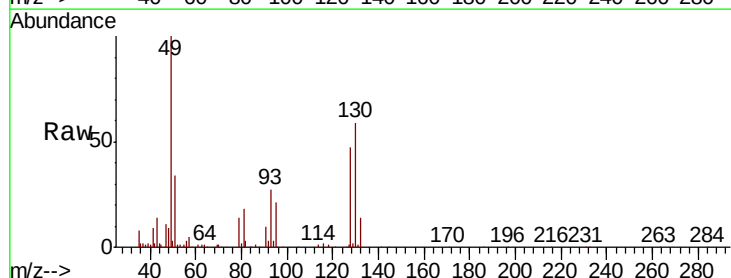
Instrument :
MSVOA_L
ClientSampled :

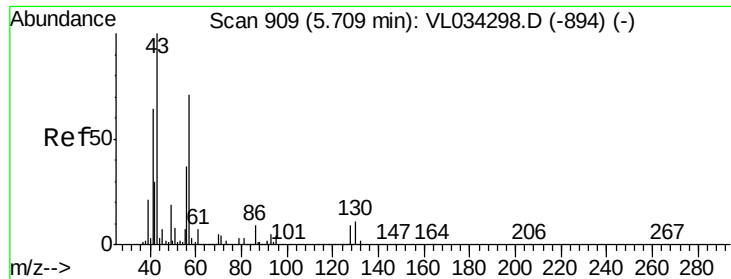
Tot Ion: 63 Resp: 14862
Ion Ratio Lower Upper
63 100
98 7.2 2.0 6.0#
100 0.0 1.1 3.5#



#25
Ethyl Acetate
Concen: 0.069 ppbv
RT: 5.73 min Scan# 914
Delta R.T. 0.03 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion: 43 Resp: 17406
Ion Ratio Lower Upper
43 100
45 18.0 8.3 12.5#
61 0.0 7.7 11.5#
70 0.0 5.4 8.2#

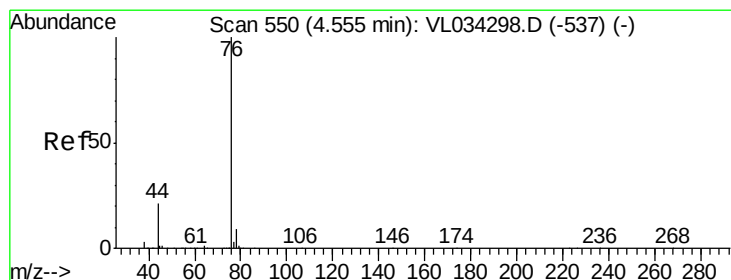
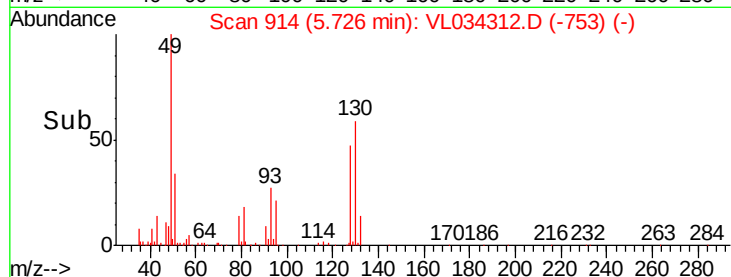
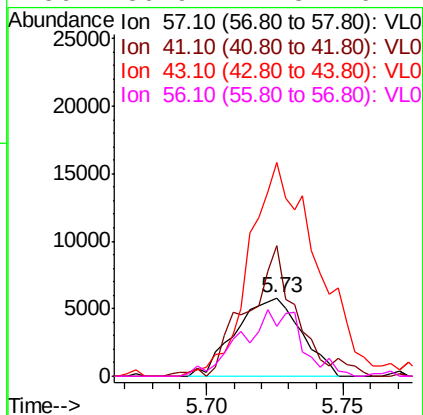
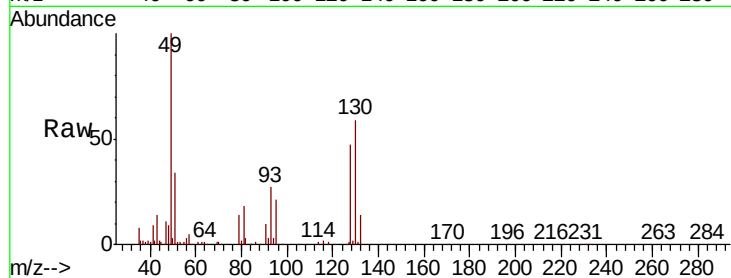




#26
Hexane
Concen: 0.090 ppbv
RT: 5.73 min Scan# 914
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

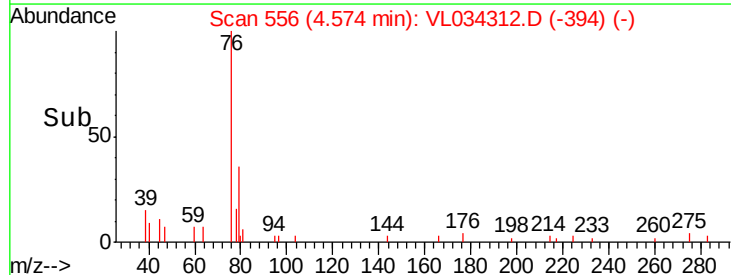
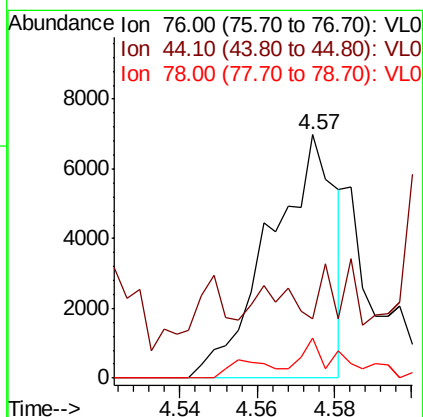
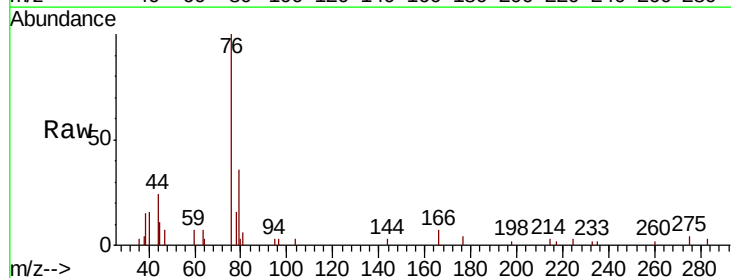
Instrument :
MSVOA_L
ClientSampled :

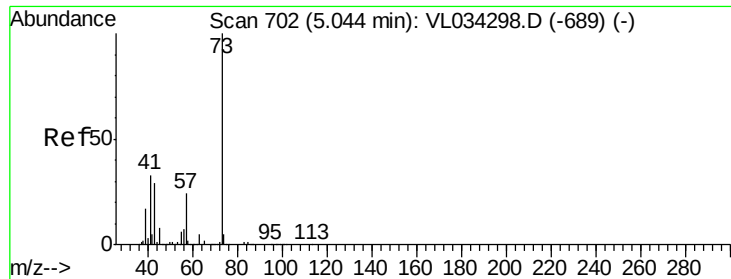
Tot Ion: 57 Resp: 9639
Ion Ratio Lower Upper
57 100
41 128.8 76.5 114.7#
43 291.1 188.5 282.7#
56 80.9 42.8 64.2#



#27
Carbon Disulfide
Concen: 0.074 ppbv
RT: 4.57 min Scan# 556
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion: 76 Resp: 8212
Ion Ratio Lower Upper
76 100
44 15.0 17.3 25.9#
78 15.4 7.8 11.6#





#28

Methyl tert-Butyl Ether

Concen: 0.064 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.04 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

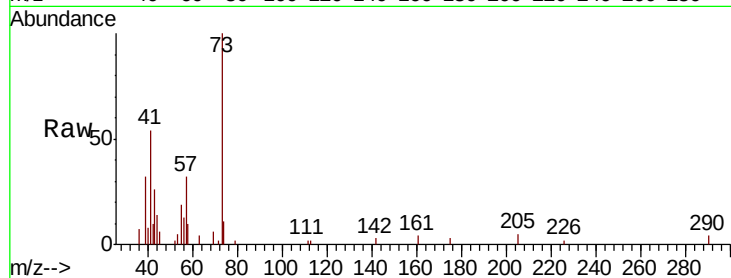
ClientSampleId :

Tot Ion: 73 Resp: 10364

Ion Ratio Lower Upper

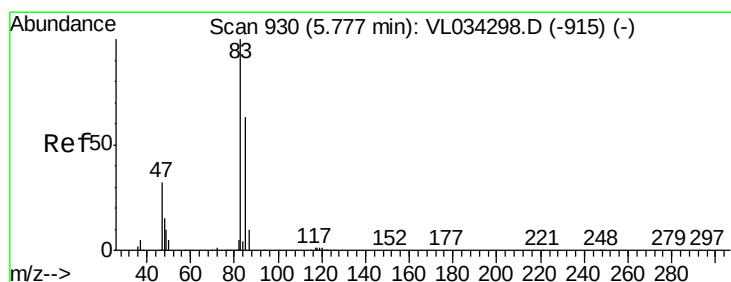
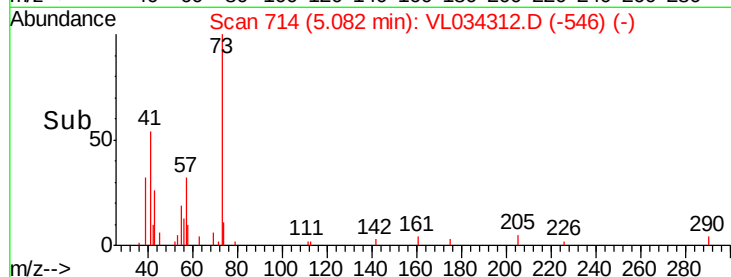
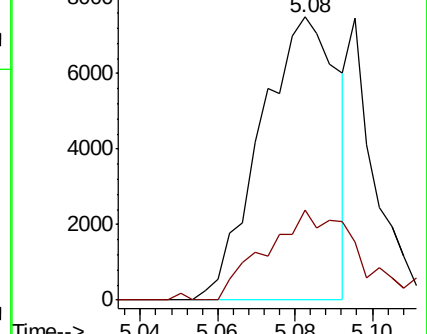
73 100

57 40.8 19.2 28.8#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.048 ppbv

RT: 5.79 min Scan# 934

Delta R.T. 0.01 min

Lab File: VL034312.D

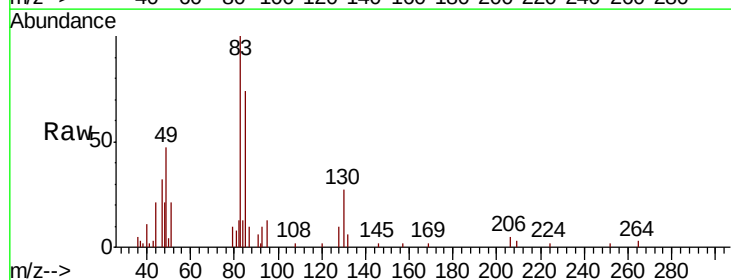
Acq: 17 Oct 2019 00:40

Tgt Ion: 83 Resp: 8180

Ion Ratio Lower Upper

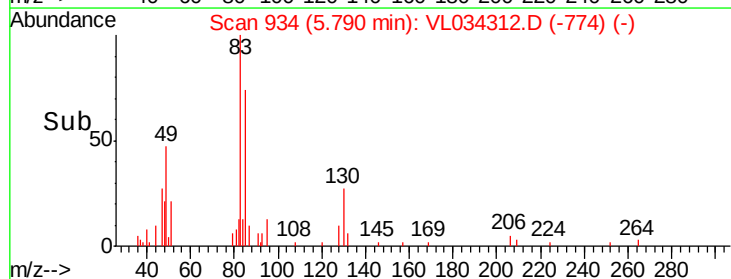
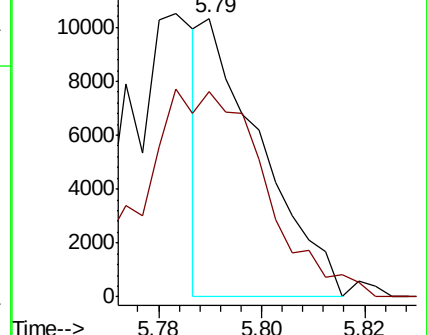
83 100

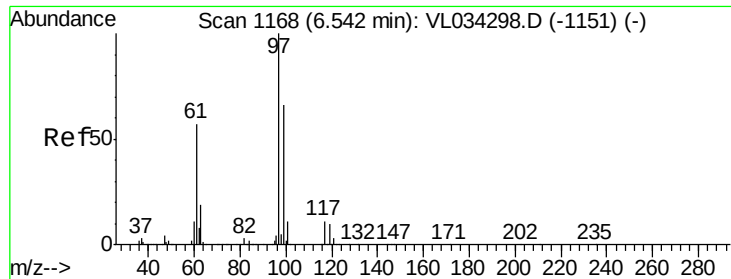
85 65.6 50.5 75.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.092 ppbv

RT: 6.56 min Scan# 1173

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

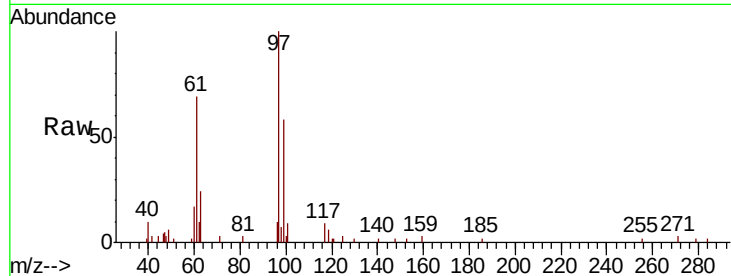
Tot Ion: 97 Resp: 15168

Ion Ratio Lower Upper

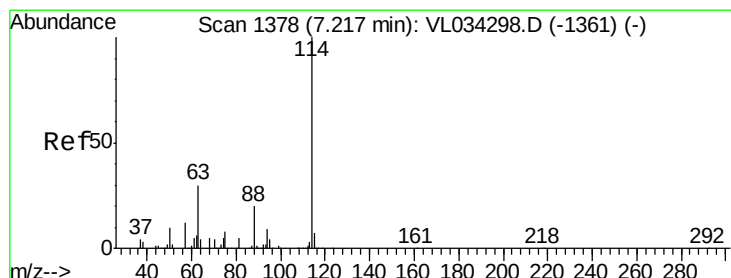
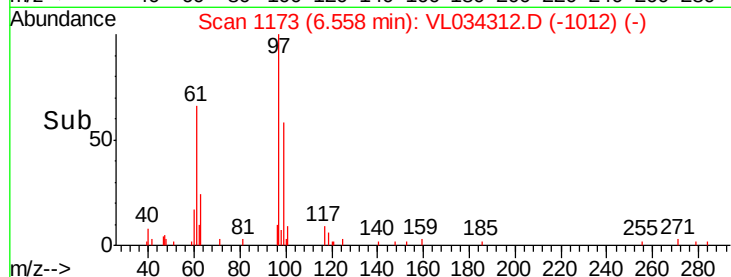
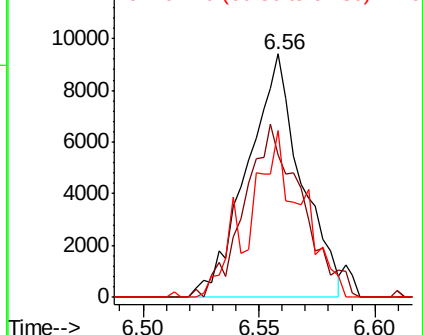
97 100

99 75.9 52.6 78.8

61 66.9 44.5 66.7#



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: 7.23 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

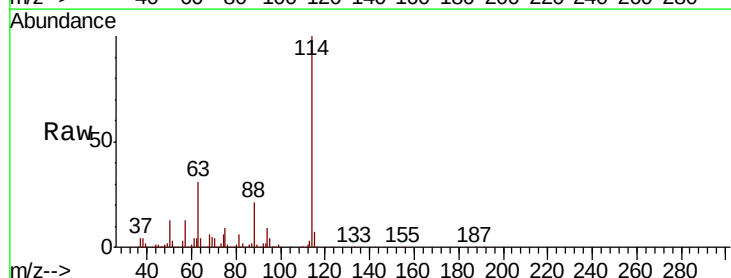
Tgt Ion: 114 Resp: 1969320

Ion Ratio Lower Upper

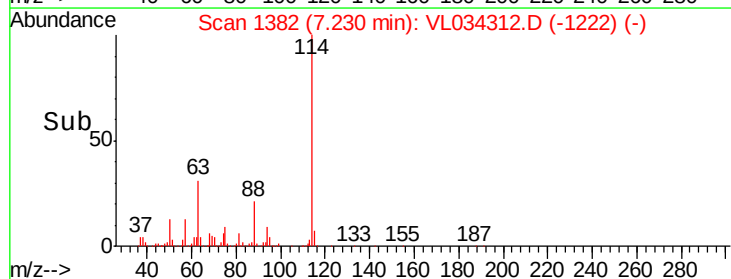
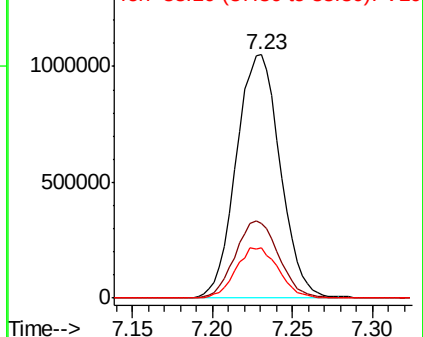
114 100

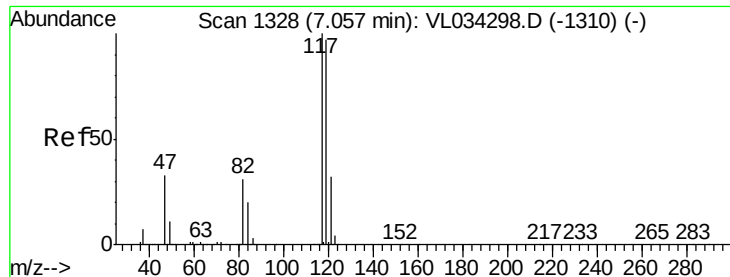
63 31.5 25.2 37.8

88 20.2 16.0 24.0



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





#35

Carbon Tetrachloride

Concen: 0.060 ppbv

RT: 7.07 min Scan# 1332

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

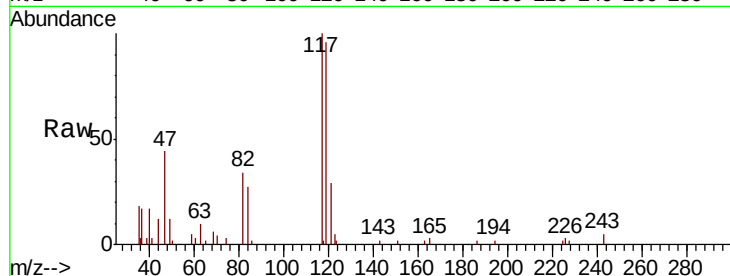
Tot Ion:117 Resp: 10319

Ion Ratio Lower Upper

117 100

119 92.6 77.3 115.9

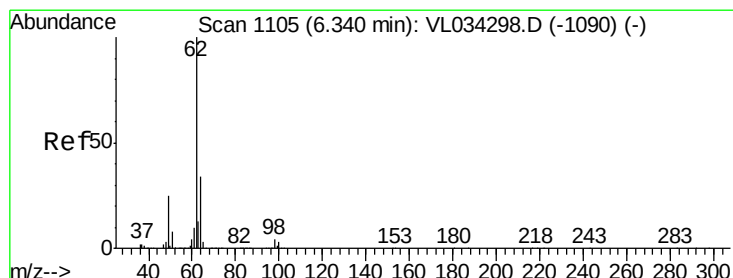
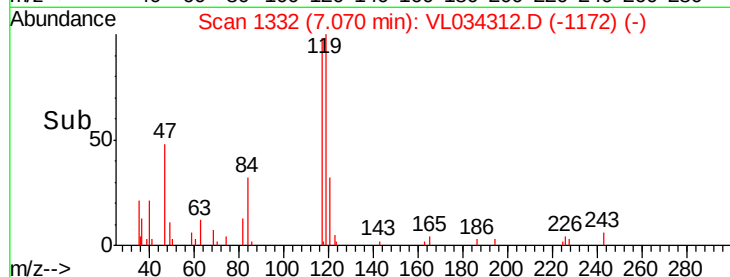
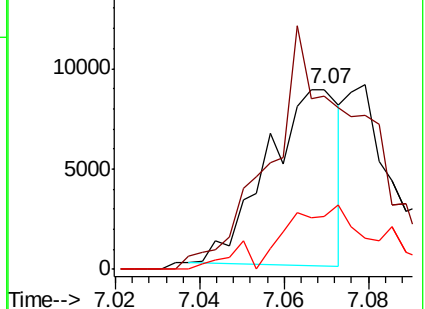
121 30.6 25.5 38.3



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



#37

1,2-Dichloroethane

Concen: 0.040 ppbv

RT: 6.35 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VL034312.D

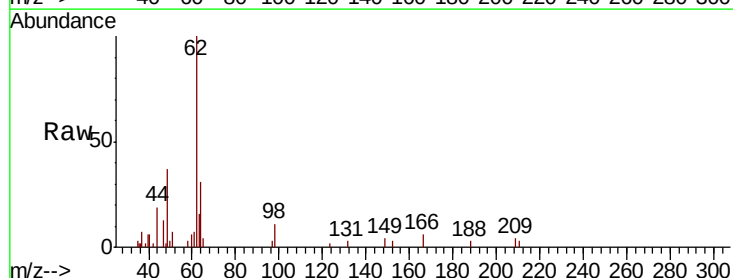
Acq: 17 Oct 2019 00:40

Tgt Ion: 62 Resp: 5571

Ion Ratio Lower Upper

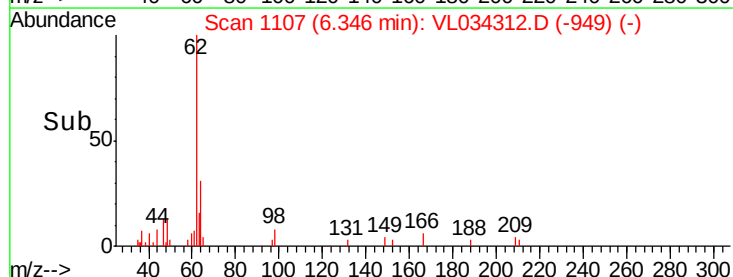
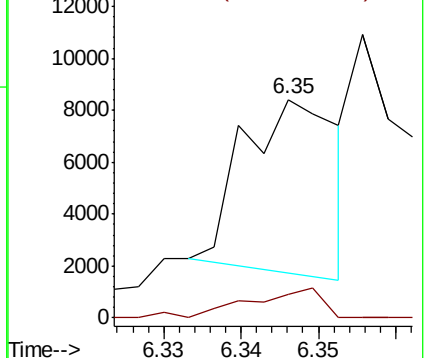
62 100

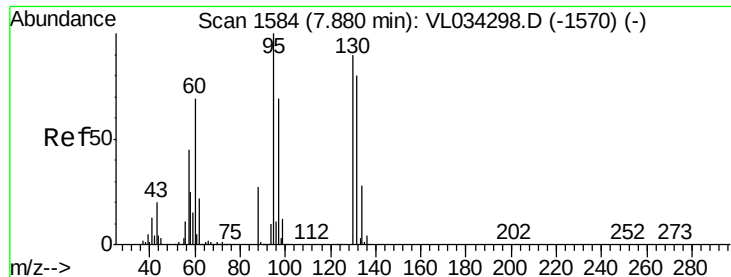
98 13.5 3.8 5.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.030 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 2291

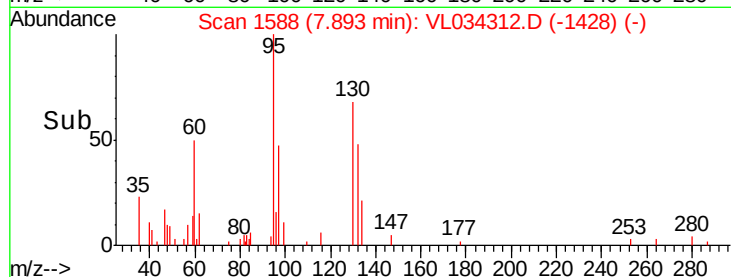
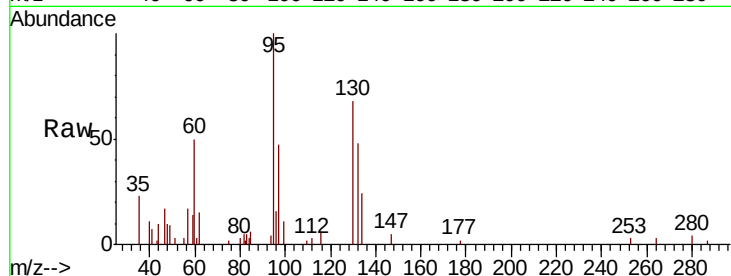
Ion Ratio Lower Upper

130 100

95 130.8 88.6 132.8

132 77.5 71.2 106.8

97 28.6 61.0 91.4#

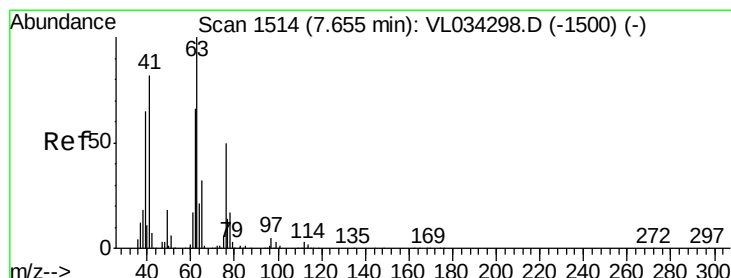
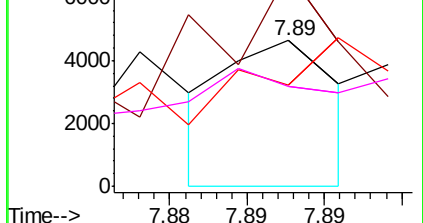


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 0.093 ppbv

RT: 7.67 min Scan# 1518

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

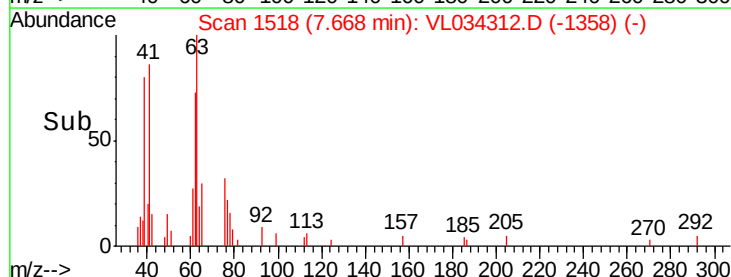
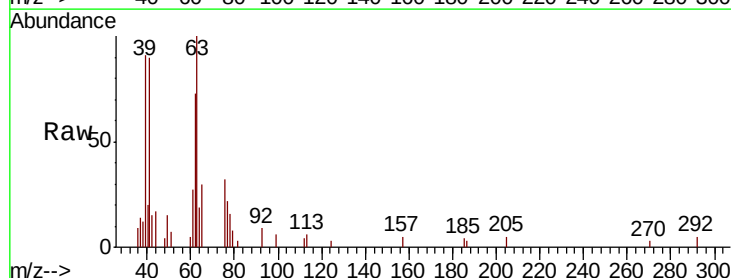
Tgt Ion: 63 Resp: 7552

Ion Ratio Lower Upper

63 100

41 90.5 65.6 98.4

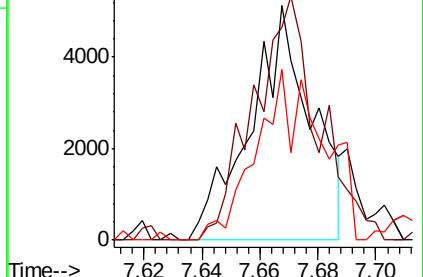
62 72.7 53.0 79.6

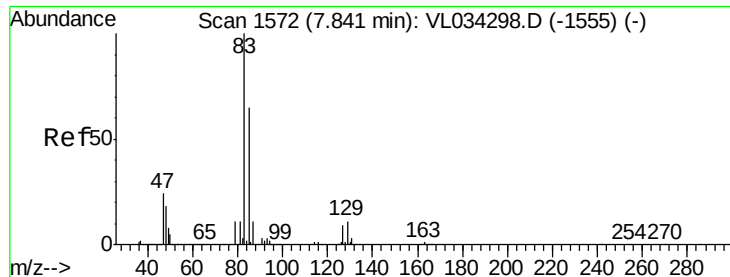


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.047 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

ClientSampled :

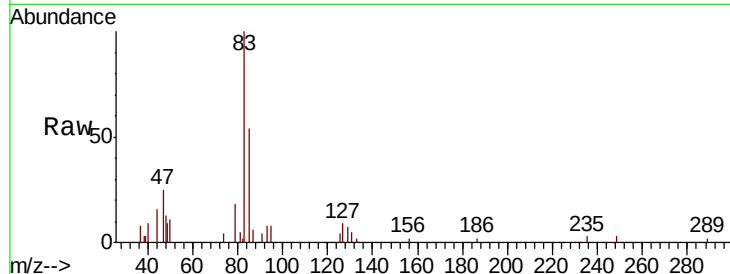
Tot Ion: 83 Resp: 8088

Ion Ratio Lower Upper

83 100

85 50.8 51.8 77.6#

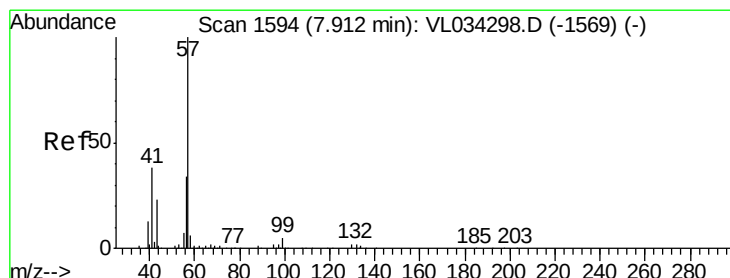
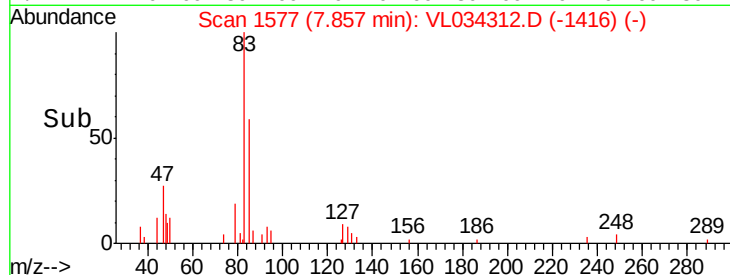
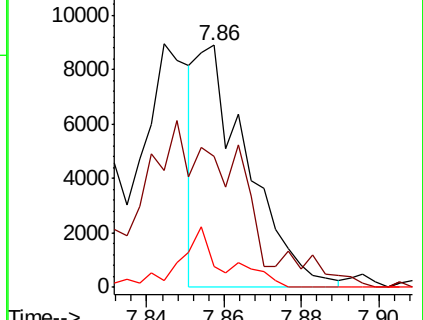
127 8.9 7.0 10.6



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): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.071 ppbv

RT: 7.93 min Scan# 1599

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

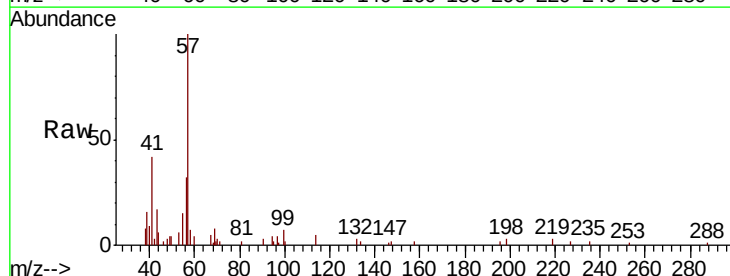
Tgt Ion: 57 Resp: 24808

Ion Ratio Lower Upper

57 100

41 57.5 29.3 43.9#

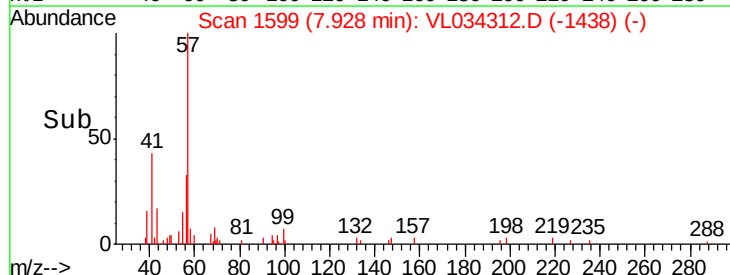
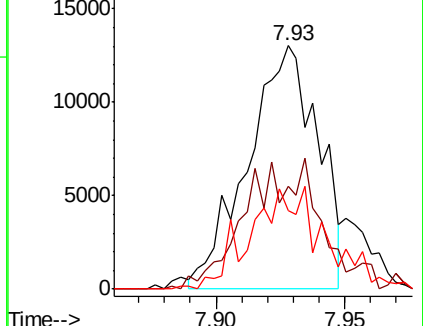
56 44.6 25.3 37.9#

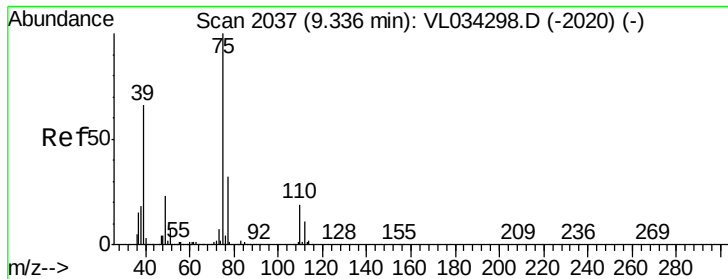


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 0.050 ppbv

RT: 9.36 min Scan# 2043

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

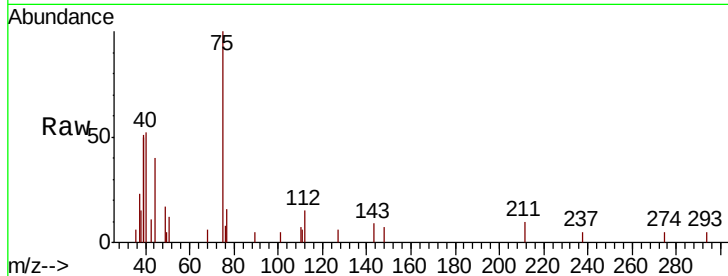
ClientSampleId :

Tot Ion: 75 Resp: 4734

Ion Ratio Lower Upper

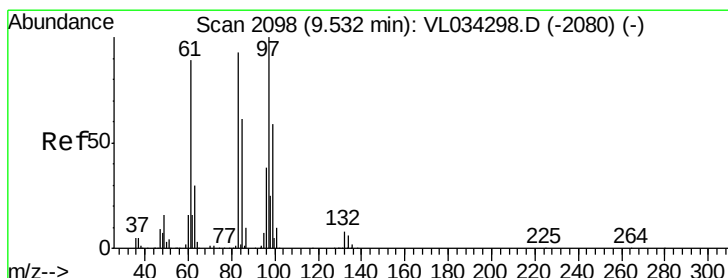
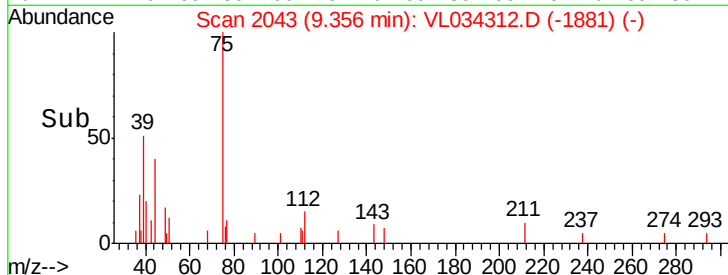
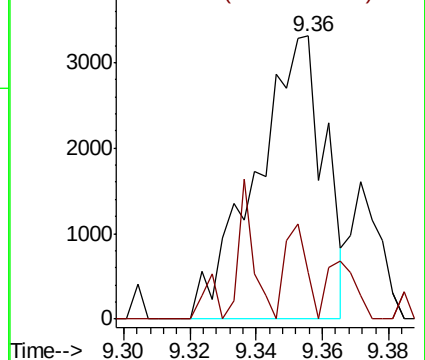
75 100

77 16.3 25.6 38.4#



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.087 ppbv

RT: 9.55 min Scan# 2102

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion: 97 Resp: 7154

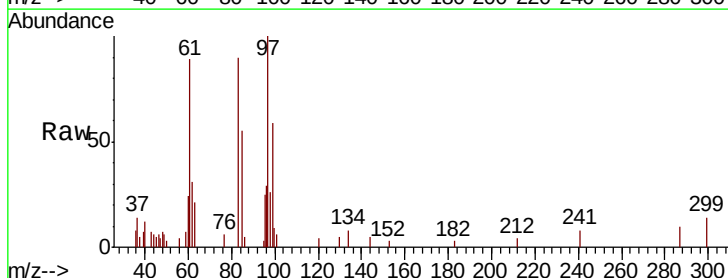
Ion Ratio Lower Upper

97 100

83 93.1 74.2 111.2

85 61.8 48.6 73.0

99 64.3 47.0 70.6

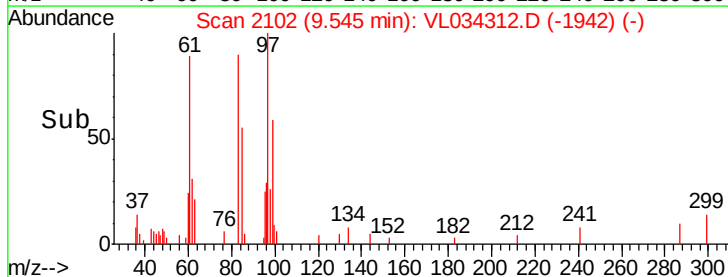
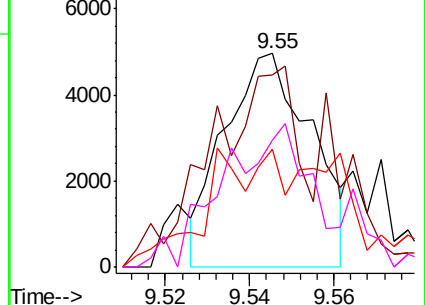


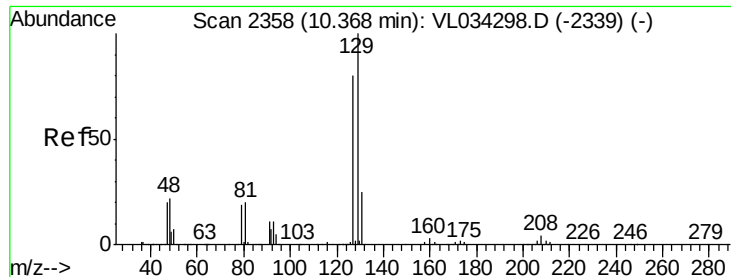
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0





#48

Dibromochloromethane

Concen: 0.032 ppbv

RT: 10.38 min Scan# 2362

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

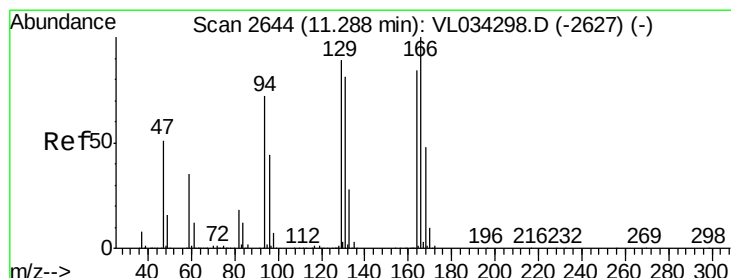
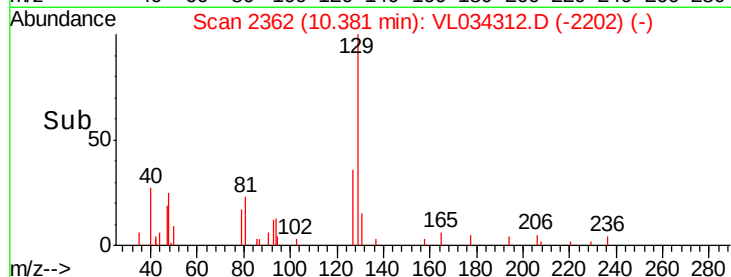
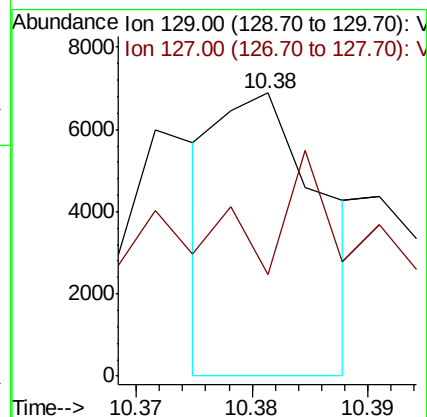
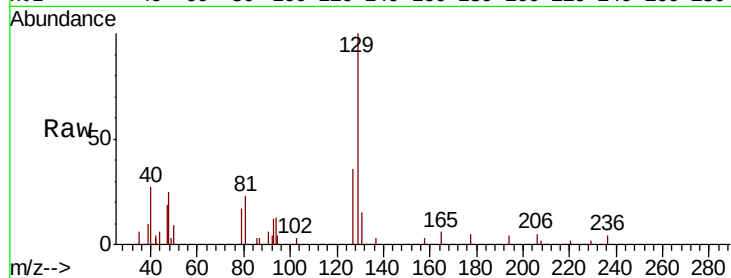
ClientSampleId :

Tot Ion:129 Resp: 4285

Ion Ratio Lower Upper

129 100

127 219.4 39.7 119.1#



#52

Tetrachloroethene

Concen: 0.043 ppbv

RT: 11.31 min Scan# 2651

Delta R.T. 0.02 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Tgt Ion:164 Resp: 3200

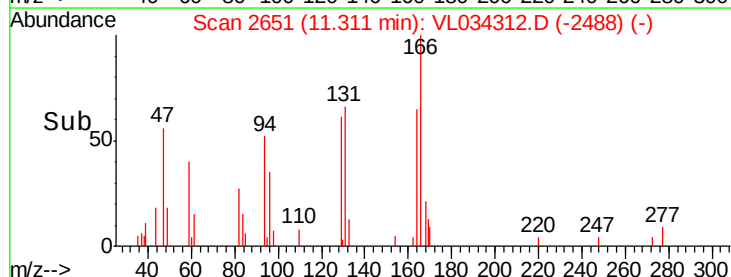
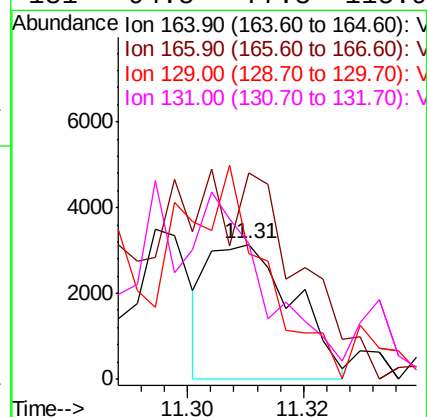
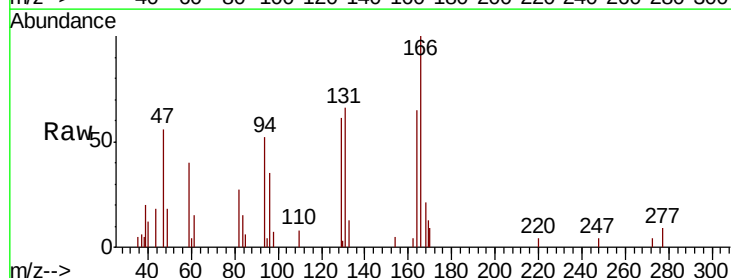
Ion Ratio Lower Upper

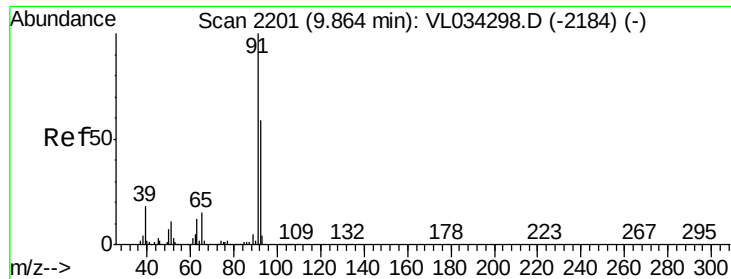
164 100

166 133.4 95.3 142.9

129 105.4 84.5 126.7

131 94.5 77.3 115.9





#53

Toluene

Concen: 0.050 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

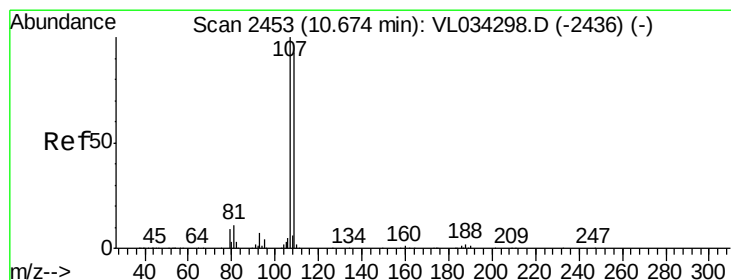
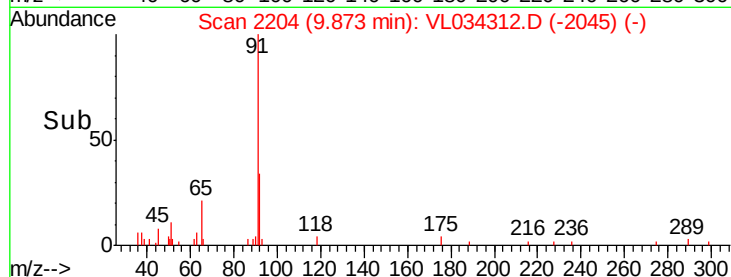
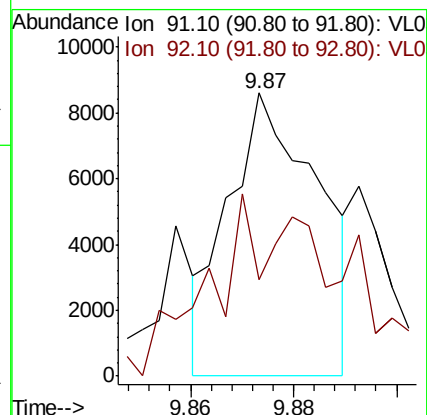
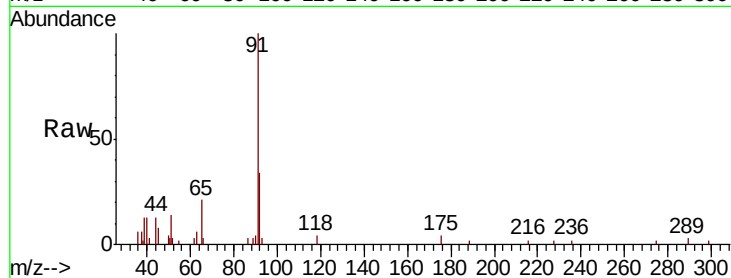
ClientSampleId :

Tot Ion: 91 Resp: 10405

Ion Ratio Lower Upper

91 100

92 92.9 48.4 72.6#



#54

1,2-Dibromoethane

Concen: 0.058 ppbv

RT: 10.70 min Scan# 2460

Delta R.T. 0.02 min

Lab File: VL034312.D

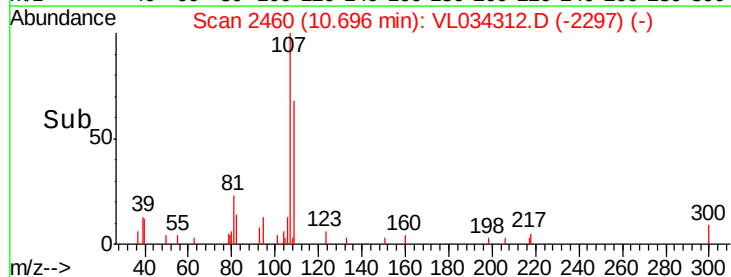
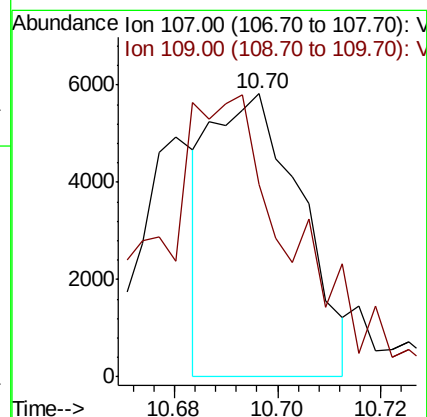
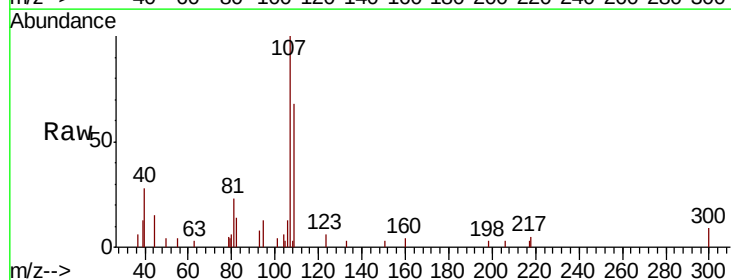
Acq: 17 Oct 2019 00:40

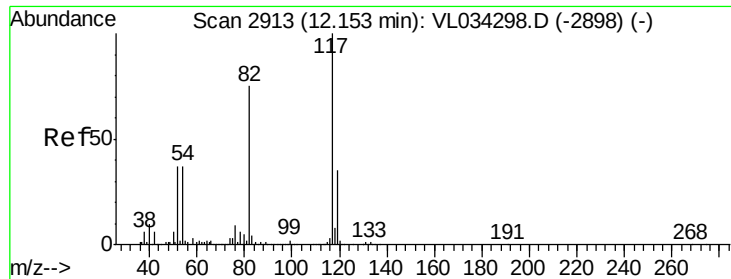
Tgt Ion: 107 Resp: 7070

Ion Ratio Lower Upper

107 100

109 35.2 74.6 112.0#

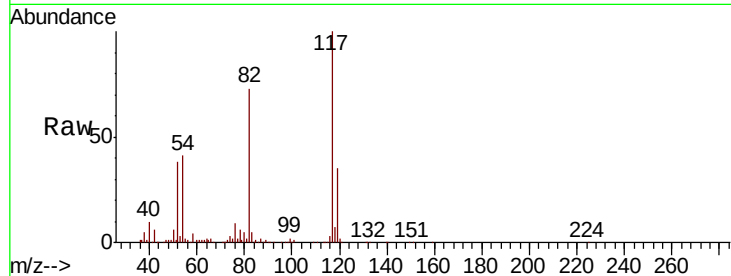




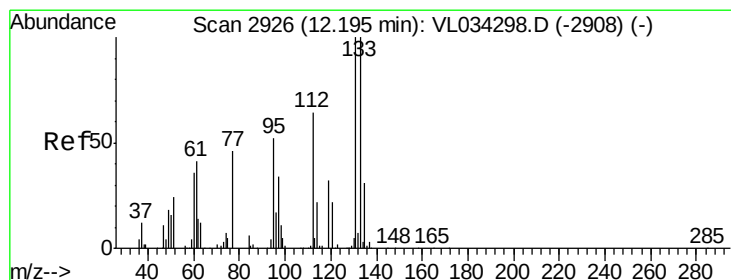
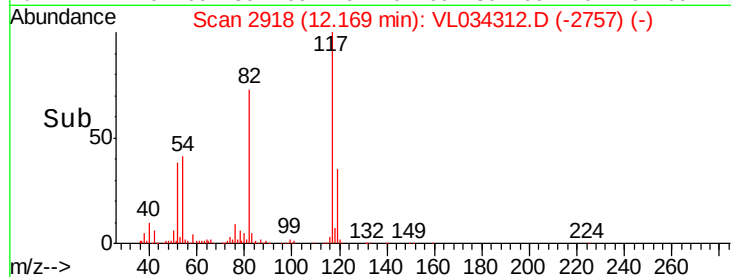
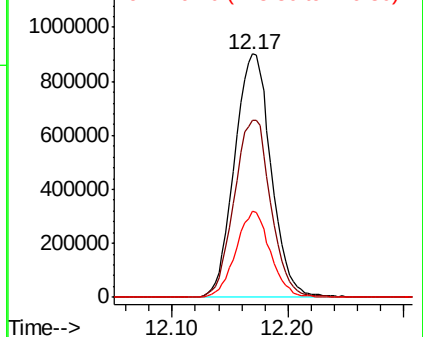
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 1972486
Ion Ratio Lower Upper
117 100
82 73.1 55.5 83.3
119 33.4 26.5 39.7

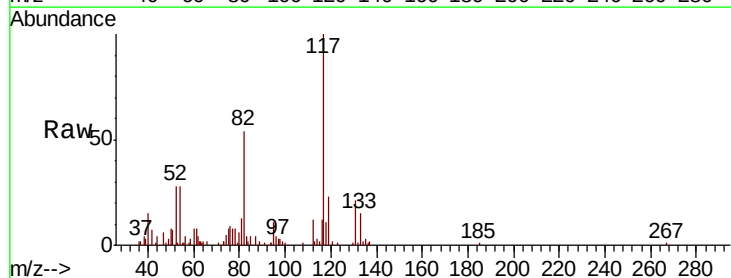


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

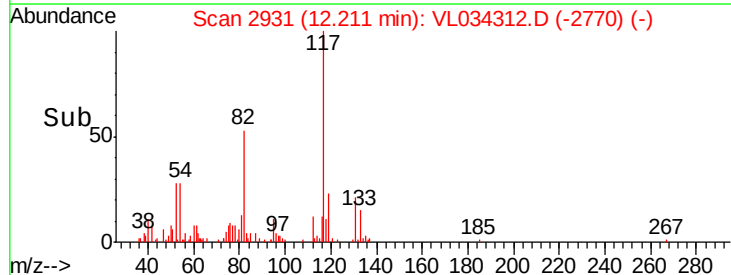
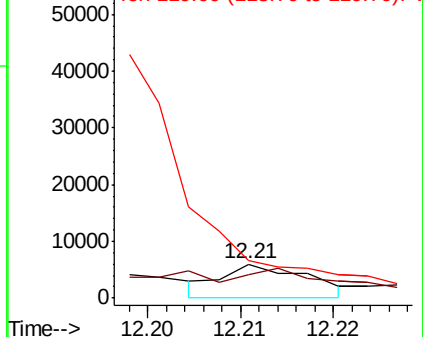


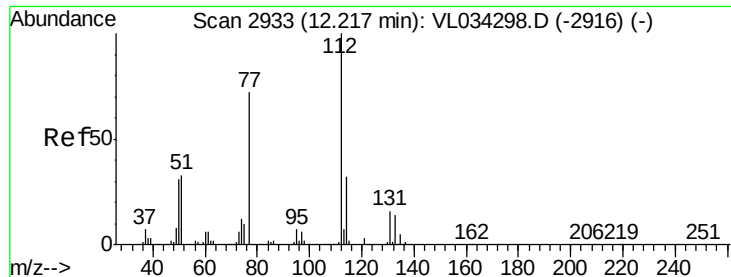
#56
1,1,1,2-Tetrachloroethane
Concen: 0.042 ppbv
RT: 12.21 min Scan# 2931
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion:131 Resp: 3814
Ion Ratio Lower Upper
131 100
133 259.9 77.1 115.7#
119 0.0 49.0 73.4#



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

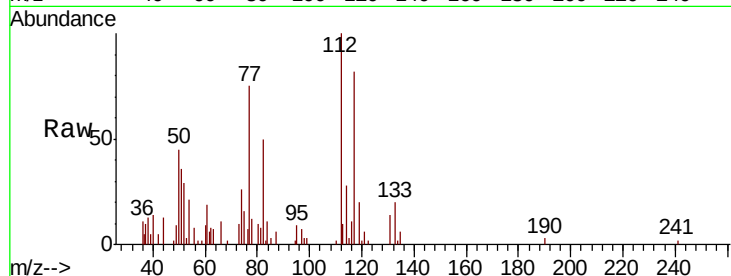




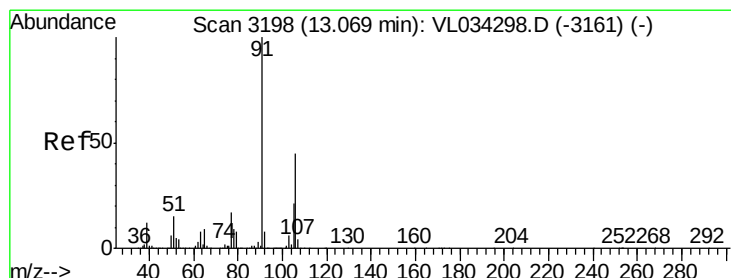
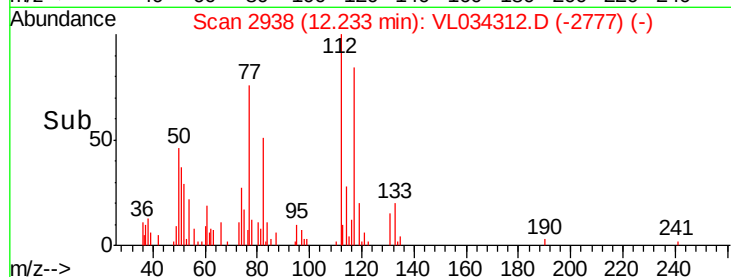
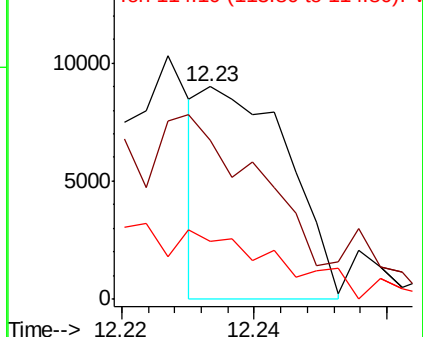
#57
Chlorobenzene
Concen: 0.049 ppbv
RT: 12.23 min Scan# 2938
Delta R.T. 0.02 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 112 Resp: 8110
Ion Ratio Lower Upper
112 100
77 53.0 58.6 88.0#
114 12.3 28.6 35.0#

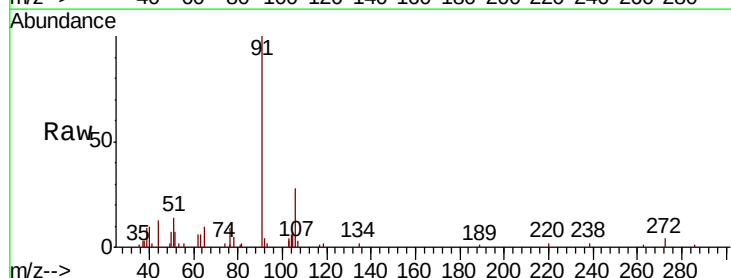


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

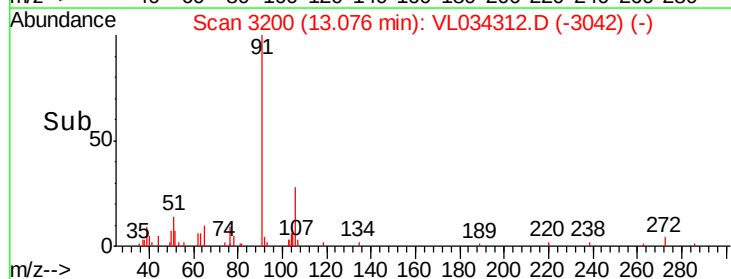
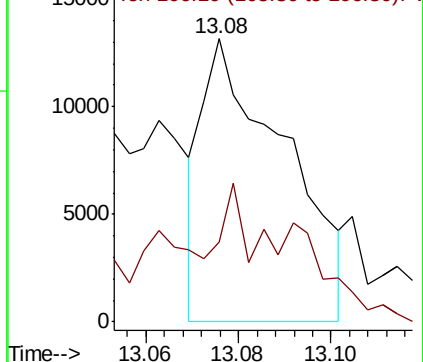


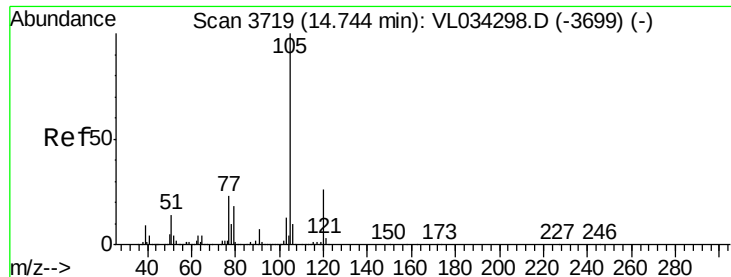
#59
m/p-Xylene
Concen: 0.068 ppbv
RT: 13.08 min Scan# 3200
Delta R.T. 0.01 min
Lab File: VL034312.D
Acq: 17 Oct 2019 00:40

Tgt Ion: 91 Resp: 16364
Ion Ratio Lower Upper
91 100
106 95.1 35.4 53.2#



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





#62

Isopropylbenzene

Concen: 0.065 ppbv

RT: 14.75 min Scan# 3722

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

Instrument :

MSVOA_L

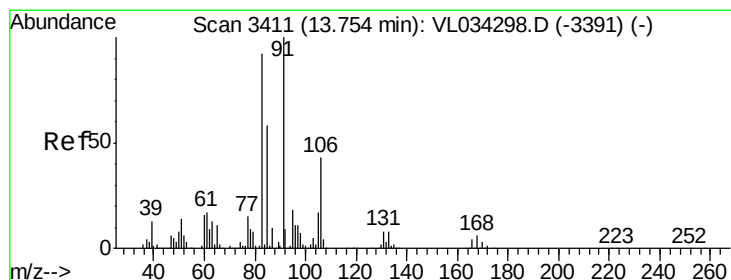
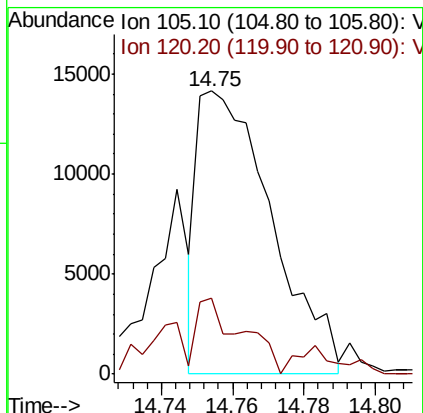
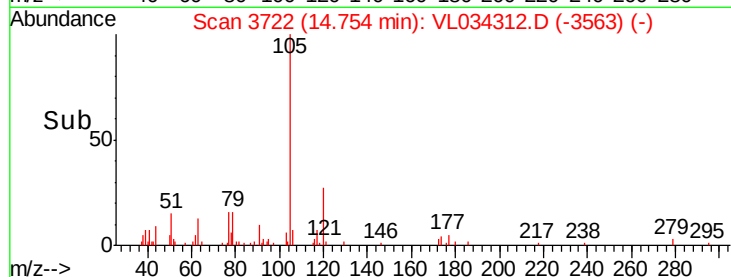
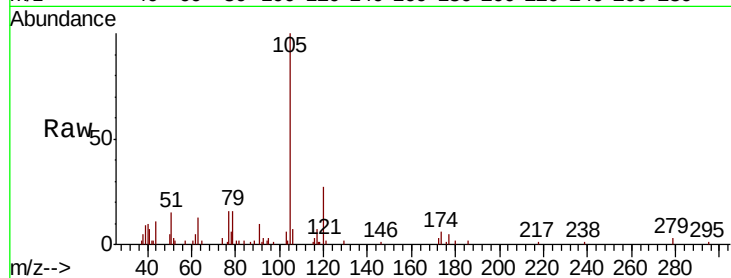
ClientSampleId :

Tot Ion:105 Resp: 20462

Ion Ratio Lower Upper

105 100

120 32.0 20.8 31.2#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.085 ppbv

RT: 13.77 min Scan# 3415

Delta R.T. 0.01 min

Lab File: VL034312.D

Acq: 17 Oct 2019 00:40

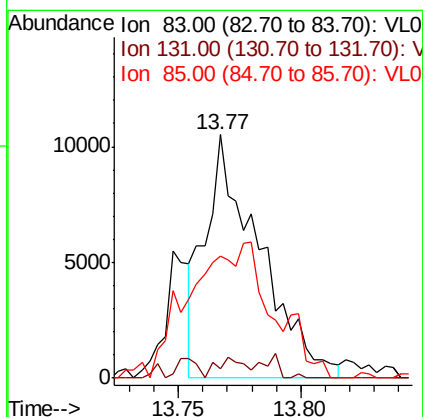
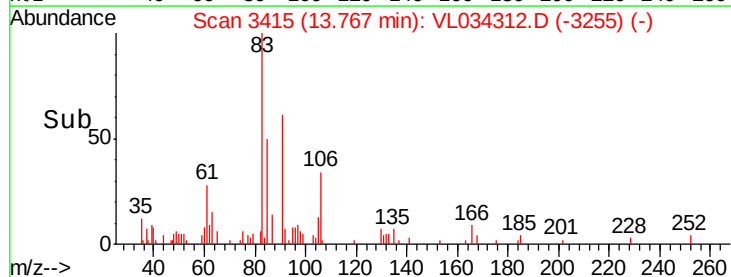
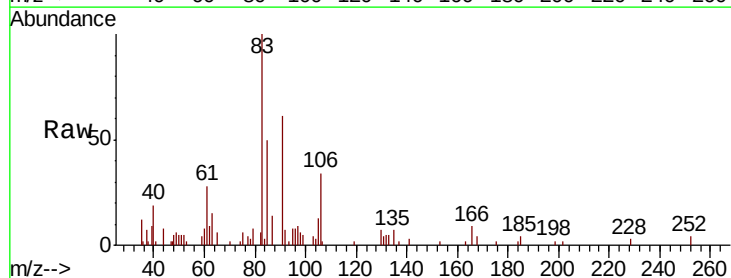
Tgt Ion: 83 Resp: 16229

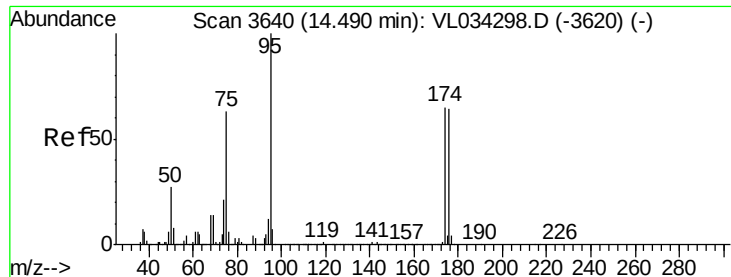
Ion Ratio Lower Upper

83 100

131 11.2 4.8 14.4

85 87.1 32.5 97.4

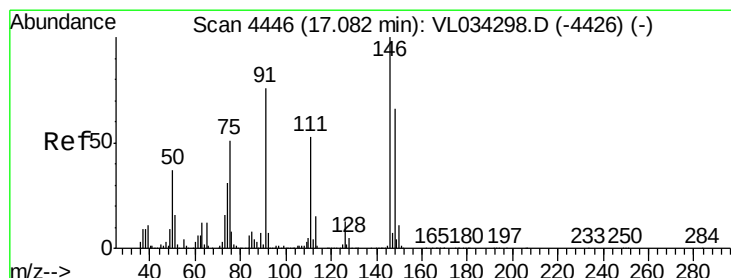
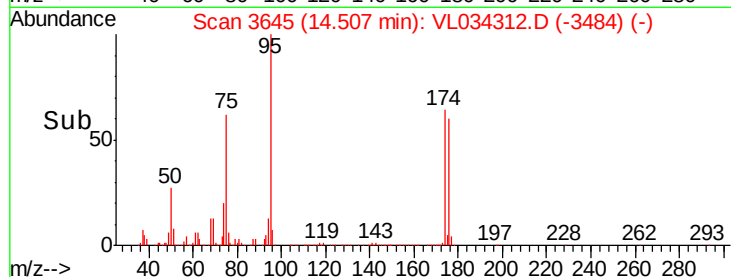
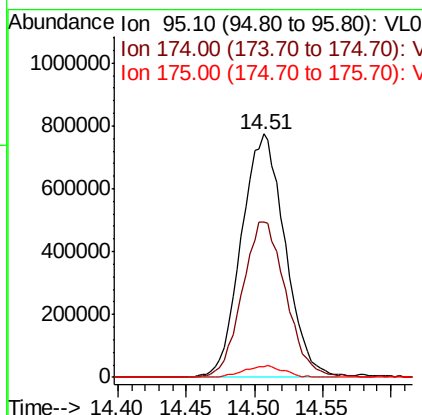
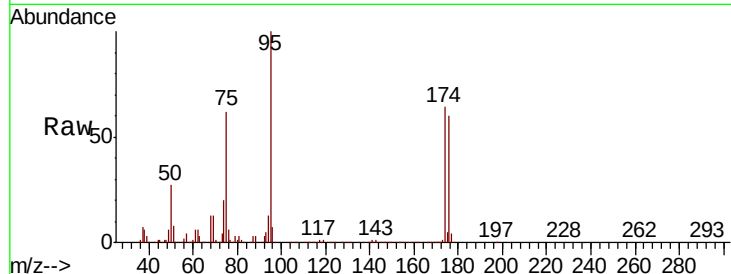




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.292 ppbv
 RT: 14.51 min Scan# 3645
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

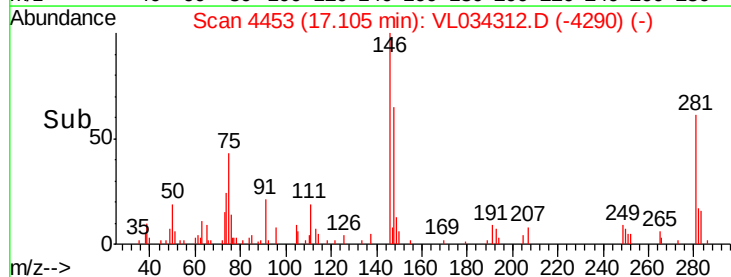
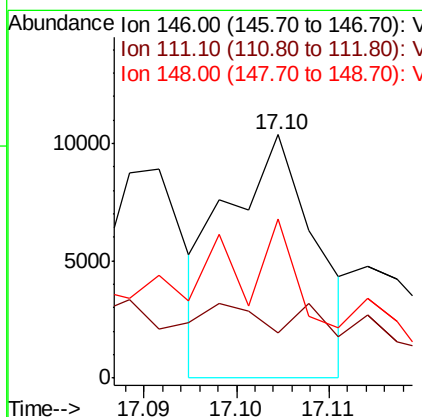
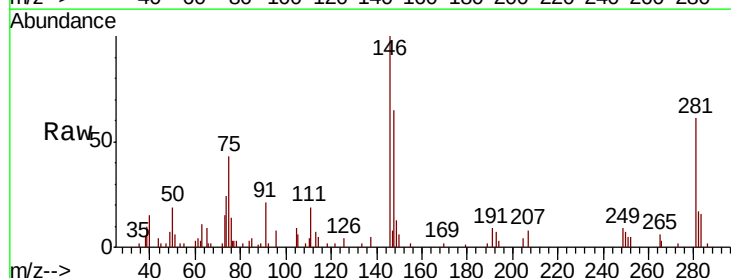
Instrument :
 MSVOA_L
 ClientSampleId :

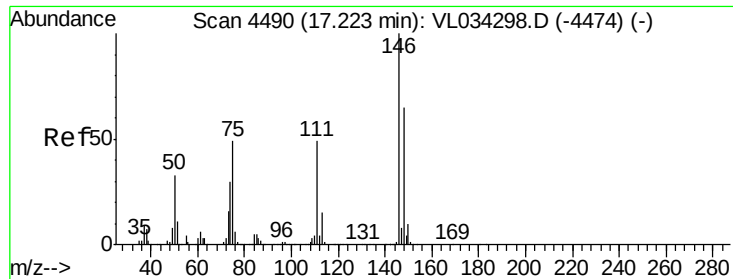
Tot Ion: 95 Resp: 1719394
 Ion Ratio Lower Upper
 95 100
 174 64.1 52.6 78.8
 175 4.6 3.8 5.6



#75
 1,3-Dichlorobenzene
 Concen: 0.042 ppbv
 RT: 17.10 min Scan# 4453
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion: 146 Resp: 6894
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.5 73.5#
 148 162.1 32.3 96.8#

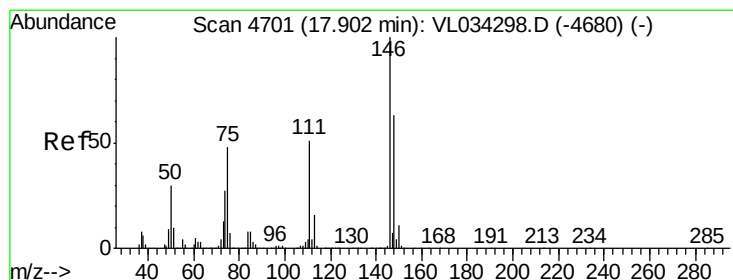
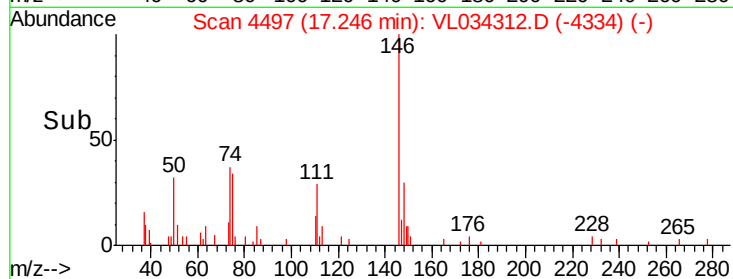
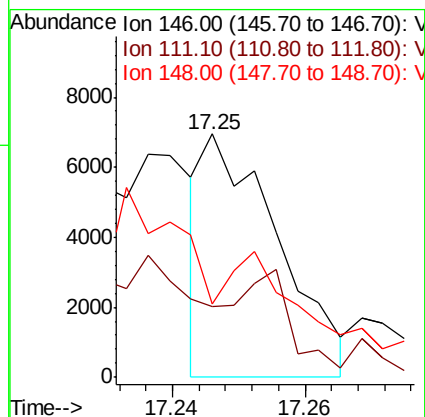
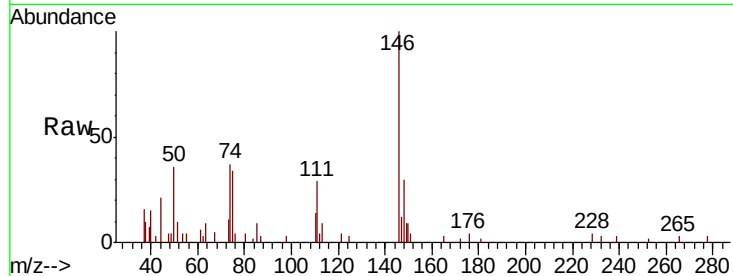




#76
 1,4-Dichlorobenzene
 Concen: 0.034 ppbv
 RT: 17.25 min Scan# 4497
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:146 Resp: 5439
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.9 71.7#
 148 0.0 33.1 99.2#



#77
 1,2-Dichlorobenzene
 Concen: 0.036 ppbv
 RT: 17.92 min Scan# 4708
 Delta R.T. 0.02 min
 Lab File: VL034312.D
 Acq: 17 Oct 2019 00:40

Tgt Ion:146 Resp: 5924
 Ion Ratio Lower Upper
 146 100
 111 132.2 25.1 75.3#
 148 163.4 32.3 96.8#

