

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032338.D
 Acq On : 2 Aug 2018 1:19
 Operator : SY/AP
 Sample : J4258-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 02 02:23:16 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 07:05:37 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1809062	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.40	114	4665787	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.33	117	4628648	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3593200	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.12	85	94469	0.433	ppbv 97
3) Chlorodifluoromethane	3.05	51	134788	0.745	ppbv # 85
4) Chloromethane	3.22	50	138301	1.263	ppbv 98
9) Propene	3.08	41	14143242	173.902	ppbv 96
10) Heptane	8.32	43	2614634	9.158	ppbv 97
11) Trichlorofluoromethane	4.06	101	61696	0.296	ppbv 95
13) Ethanol	3.75	45	3644423	155.923	ppbv 99
15) Acetone	4.12	43	565554	3.317	ppbv # 1
16) 1,3-Butadiene	3.44	39	2020983	22.862	ppbv # 3
17) tert-Butyl alcohol	4.47	59	23228649	428.639	ppbv # 94
19) Isopropyl Alcohol	4.14	45	1180810	10.379	ppbv # 95
20) Methylene Chloride	4.50	84	159014	2.320	ppbv # 86
21) Allyl Chloride	4.47	41	4382873	37.680	ppbv # 59
23) Vinyl Acetate	5.25	43	2866472	9.372	ppbv # 75
25) Ethyl Acetate	5.85	43	2045298	5.346	ppbv # 80
26) Hexane	5.85	57	2171119	12.540	ppbv # 1
27) Carbon Disulfide	4.68	76	2701502	17.163	ppbv 99
28) Methyl tert-Butyl Ether	5.18	73	182840	0.781	ppbv # 51
30) Cyclohexane	7.40	84	319136	2.363	ppbv # 62
34) 2-Butanone	5.41	43	2899756	9.602	ppbv # 1
36) Benzene	7.10	78	5130941	12.475	ppbv 99
39) 1,2-Dichloropropane	8.01	63	15533	0.075	ppbv # 1
41) Tetrahydrofuran	6.23	42	178907	1.047	ppbv # 82
42) Bromodichloromethane	8.02	83	125086	0.325	ppbv # 26
43) Methyl Methacrylate	8.27	69	1434226	7.265	ppbv # 59
44) 2,2,4-Trimethylpentane	8.08	57	2598978	2.914	ppbv # 72
50) 4-Methyl-2-Pentanone	8.97	43	411792	0.773	ppbv 93
51) 2-Hexanone	10.36	43	22336972	55.009	ppbv # 85
53) Toluene	10.04	91	2258638	4.594	ppbv 99
58) Ethyl Benzene	12.95	91	729081	1.256	ppbv 97
59) m/p-Xylene	13.21	91	2095473	4.241	ppbv 99
60) o-Xylene	13.93	91	849759	1.754	ppbv 99
61) Styrene	13.78	104	115865	0.325	ppbv 99
62) Isopropylbenzene	14.92	105	31680	0.046	ppbv # 9
67) sec-Butylbenzene	17.85	105	298016	0.342	ppbv 93
69) p-Isopropyltoluene	17.90	119	169847	0.252	ppbv 98
71) 2-Chlorotoluene	15.81	91	98805	0.183	ppbv # 46
72) 4-Ethyltoluene	16.09	105	43511	0.080	ppbv # 46
73) 1,3,5-Trimethylbenzene	16.24	105	223956	0.419	ppbv 96
74) 1,2,4-Trimethylbenzene	17.01	105	583962	1.037	ppbv # 71
79) Naphthalene	22.50	128	985546	2.016	ppbv 99

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 07:05:37 2018
QLast Update : Fri Jul 27 07:05:37 2018
Response via : Initial Calibration

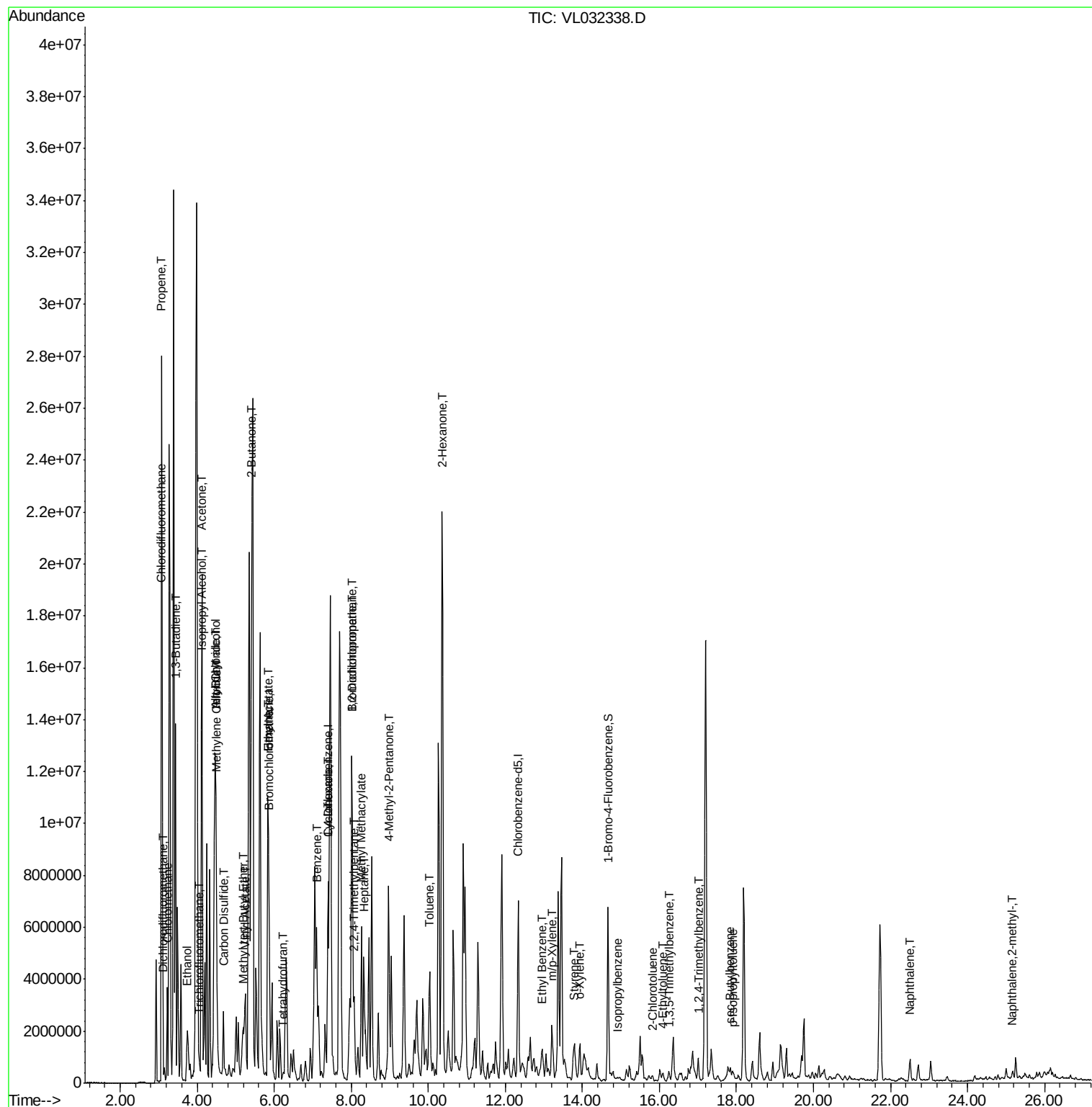
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Naphthalene,2-methyl-	25.18	142	133269	0.689	ppbv	97

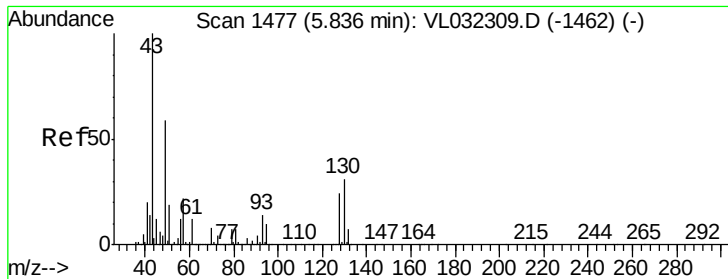
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. 0.03 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

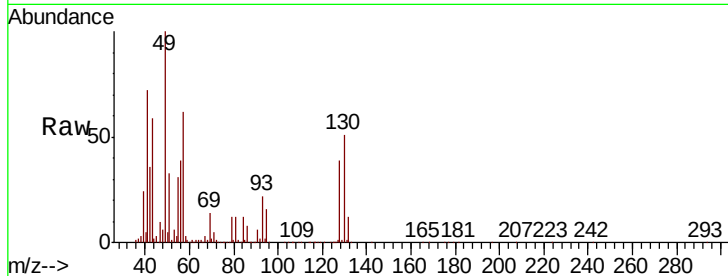
Tot Ion: 49 Resp: 1809062

Ion	Ratio	Lower	Upper
49	100		
128	39.9	20.2	60.6
130	51.5	25.8	77.3

49 100

128 39.9 20.2 60.6

130 51.5 25.8 77.3



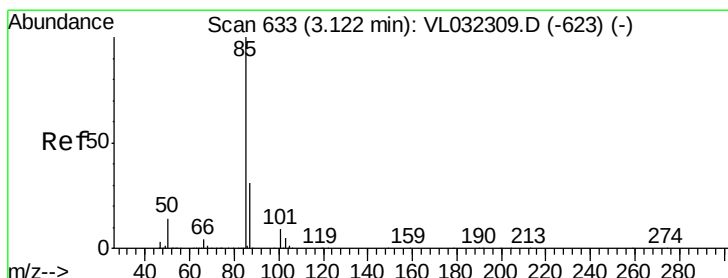
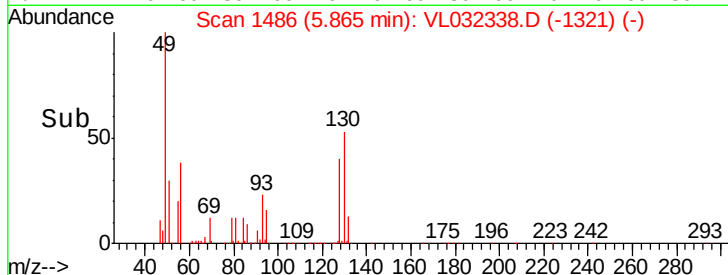
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.86

Time-->



#2

Dichlorodifluoromethane

Concen: 0.433 ppbv

RT: 3.12 min Scan# 632

Delta R.T. -0.00 min

Lab File: VL032338.D

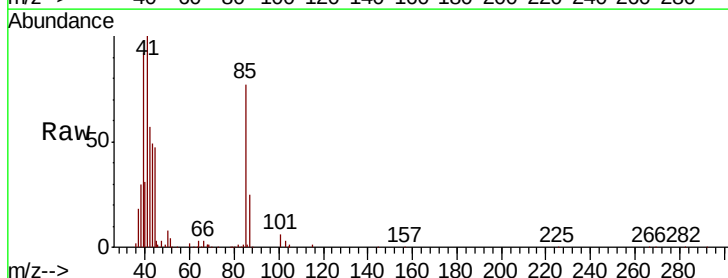
Acq: 2 Aug 2018 1:19

Tgt Ion: 85 Resp: 94469

Ion	Ratio	Lower	Upper
85	100		
87	33.1	25.2	37.8

85 100

87 33.1 25.2 37.8

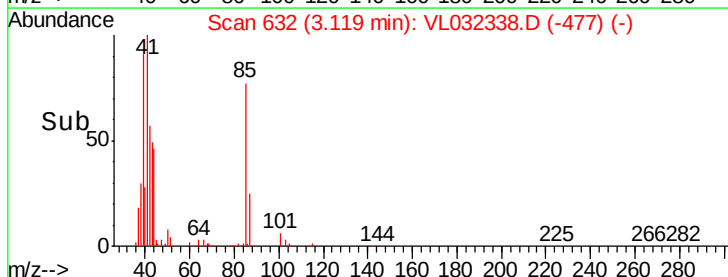


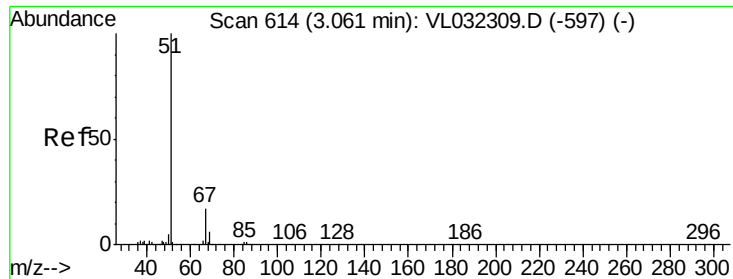
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.12

Time-->

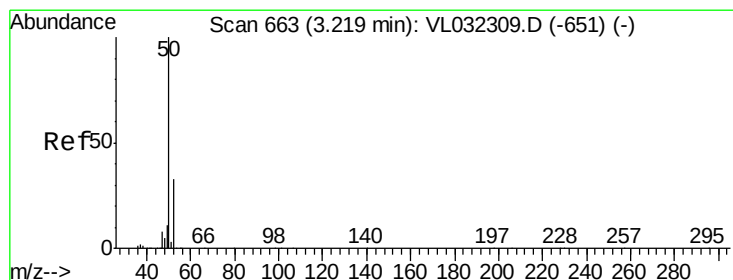
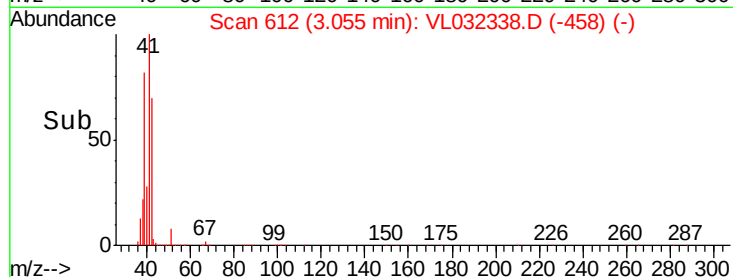
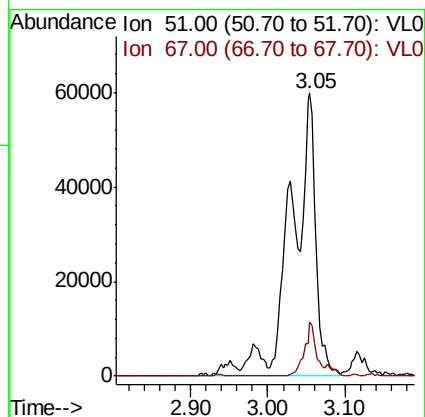
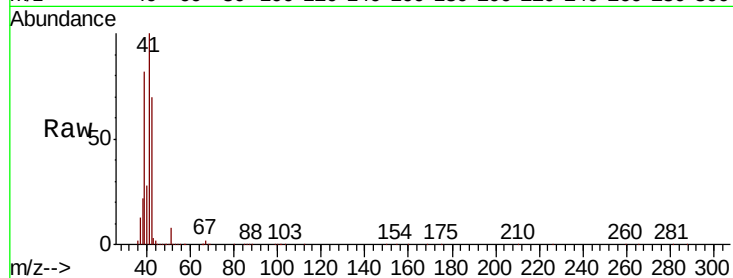




#3
Chlorodifluoromethane
Concen: 0.745 ppbv
RT: 3.05 min Scan# 612
Delta R.T. -0.01 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

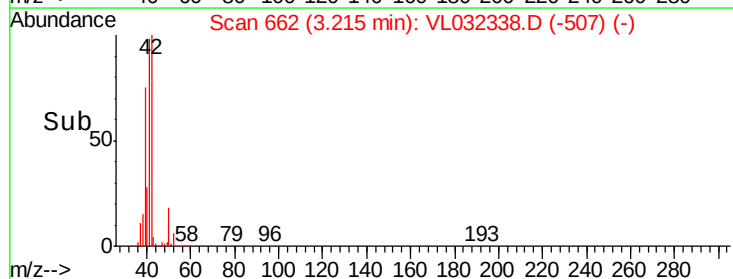
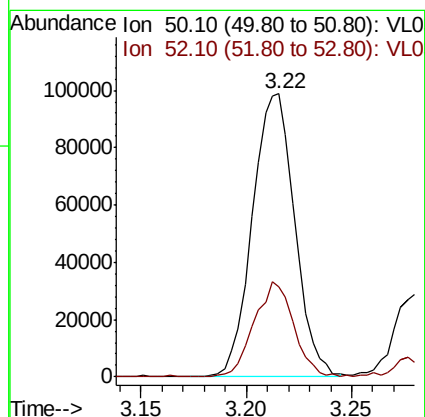
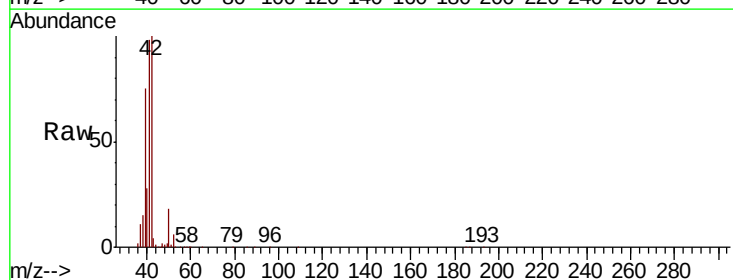
Instrument :
MSVOA_L
ClientSampleId :

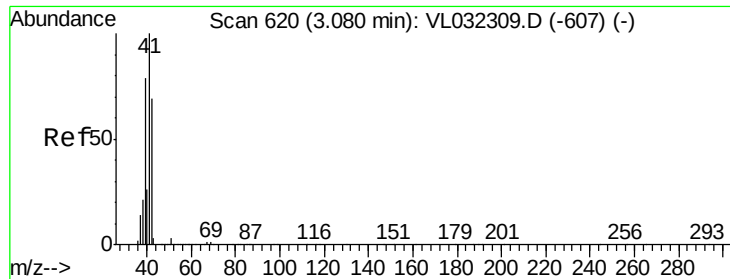
Tot Ion: 51 Resp: 134788
Ion Ratio Lower Upper
51 100
67 10.4 13.5 20.3#



#4
Chloromethane
Concen: 1.263 ppbv
RT: 3.22 min Scan# 662
Delta R.T. -0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion: 50 Resp: 138301
Ion Ratio Lower Upper
50 100
52 31.9 26.2 39.4





#9

Propene

Concen: 173.902 ppbv

RT: 3.08 min Scan# 619

Delta R.T. -0.00 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

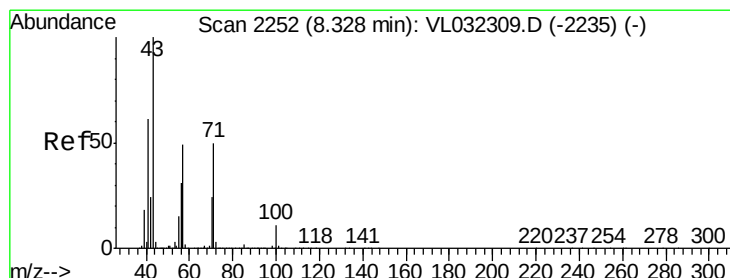
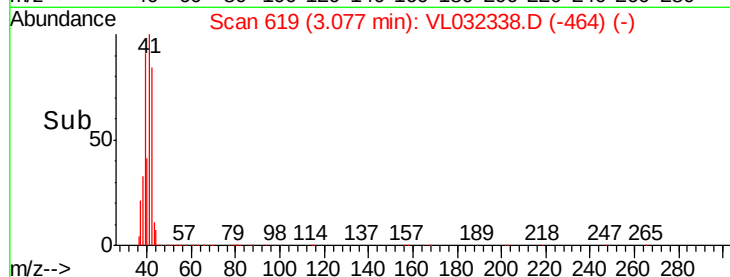
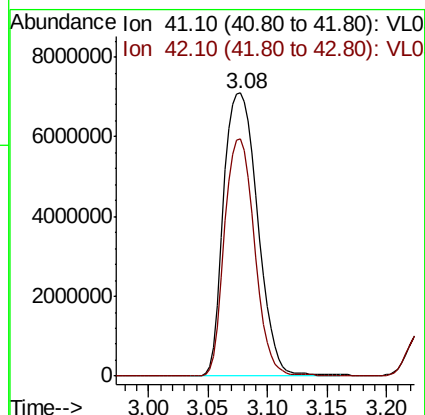
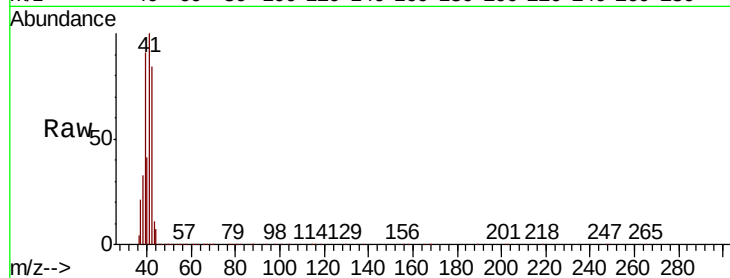
ClientSampleId :

Tot Ion: 41 Resp:14143242

Ion Ratio Lower Upper

41 100

42 74.0 56.8 85.2



#10

Heptane

Concen: 9.158 ppbv

RT: 8.32 min Scan# 2251

Delta R.T. -0.00 min

Lab File: VL032338.D

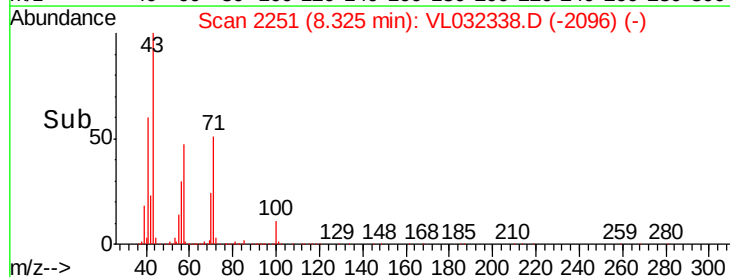
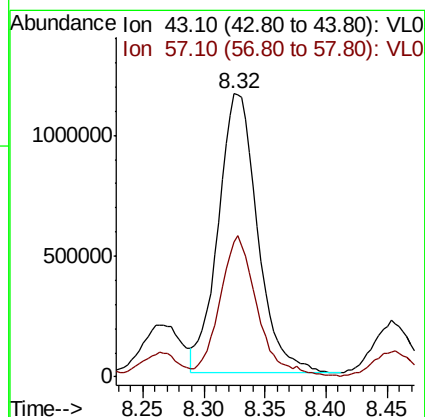
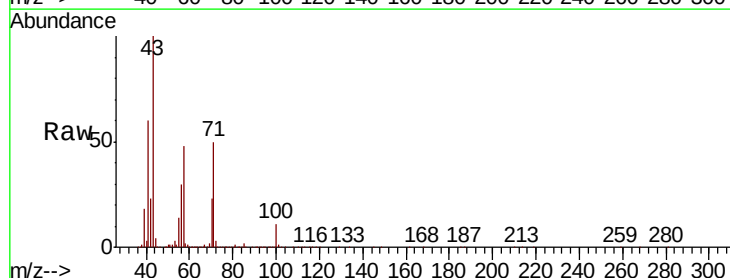
Acq: 2 Aug 2018 1:19

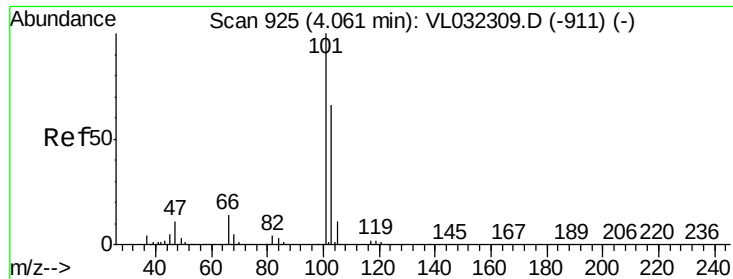
Tgt Ion: 43 Resp: 2614634

Ion Ratio Lower Upper

43 100

57 46.7 39.0 58.4

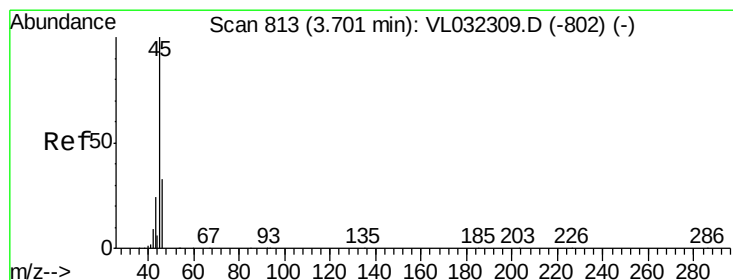
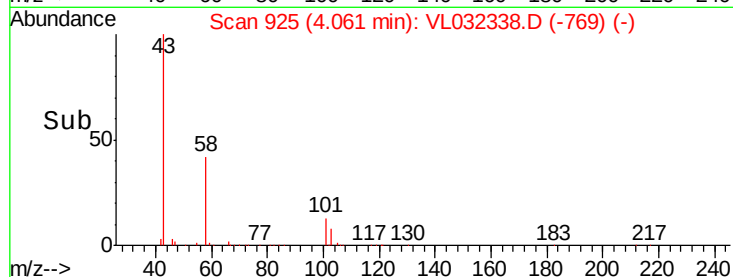
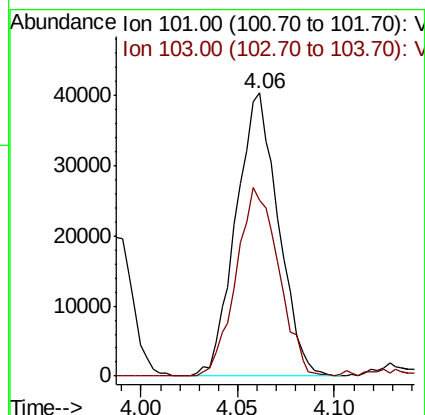
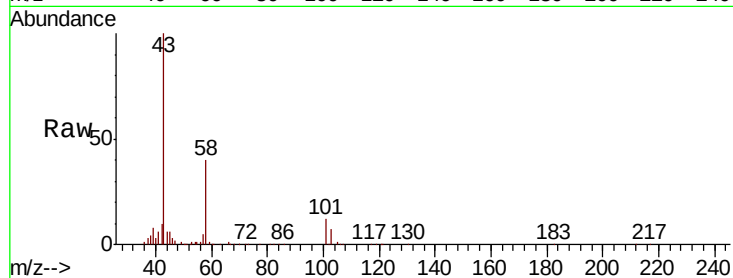




#11
 Trichlorofluoromethane
 Concen: 0.296 ppbv
 RT: 4.06 min Scan# 925
 Delta R.T. 0.00 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

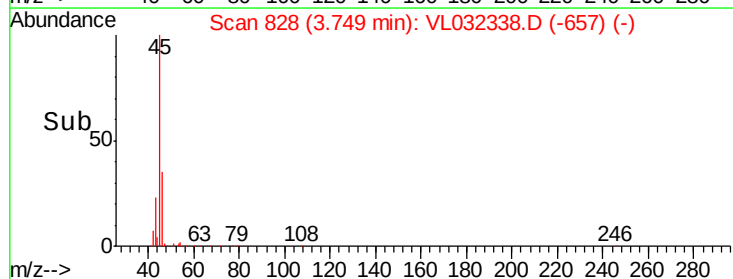
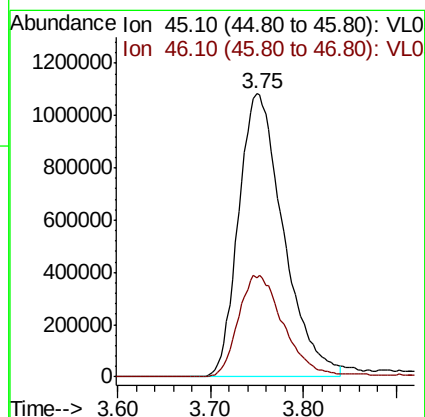
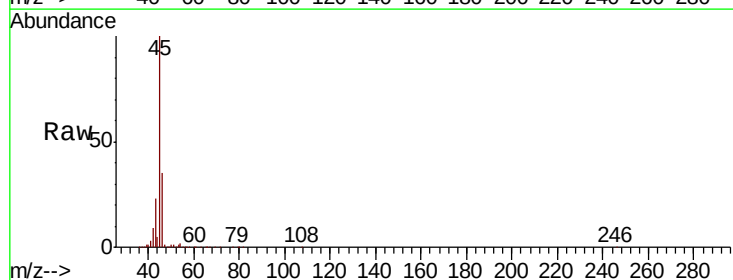
Instrument :
 MSVOA_L
 ClientSampleId :

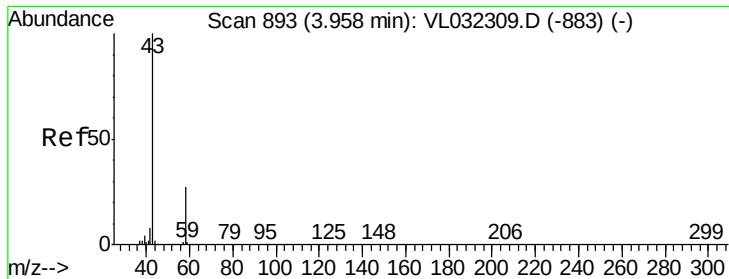
Tot Ion:101 Resp: 61696
 Ion Ratio Lower Upper
 101 100
 103 62.1 52.6 78.8



#13
 Ethanol
 Concen: 155.923 ppbv
 RT: 3.75 min Scan# 828
 Delta R.T. 0.05 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Tgt Ion: 45 Resp: 3644423
 Ion Ratio Lower Upper
 45 100
 46 37.2 15.2 60.6





#15

Acetone

Concen: 3.317 ppbv

RT: 4.12 min Scan# 943

Delta R.T. 0.16 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

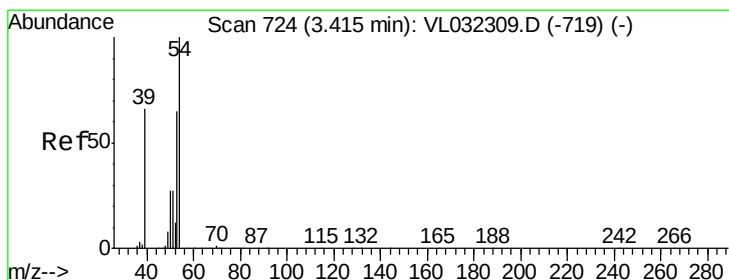
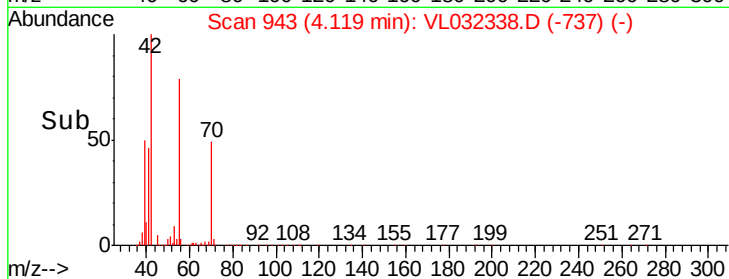
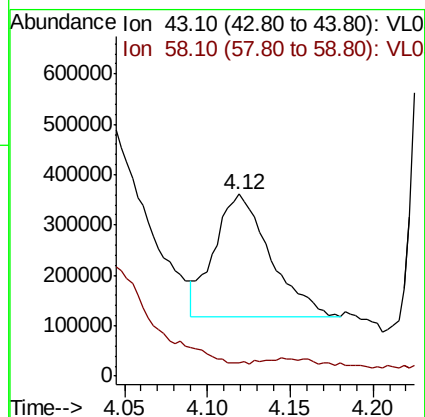
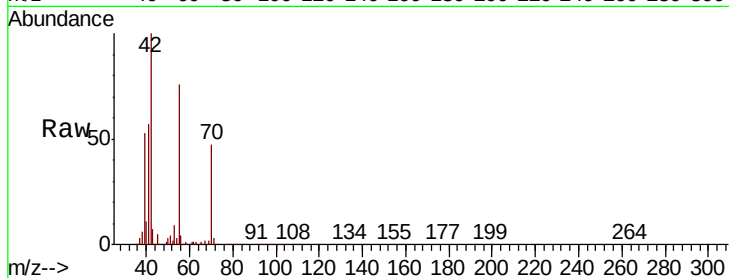
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 565554

Ion Ratio Lower Upper

43 100

58 4962.3 22.5 33.7#



#16

1,3-Butadiene

Concen: 22.862 ppbv

RT: 3.44 min Scan# 731

Delta R.T. 0.02 min

Lab File: VL032338.D

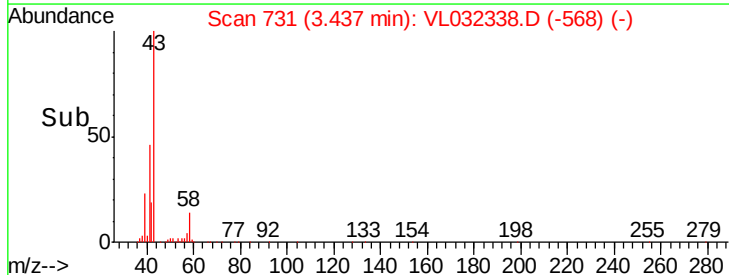
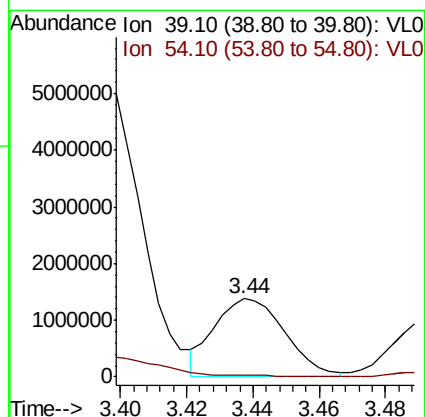
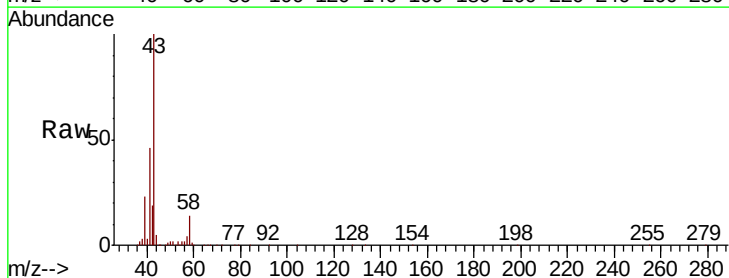
Acq: 2 Aug 2018 1:19

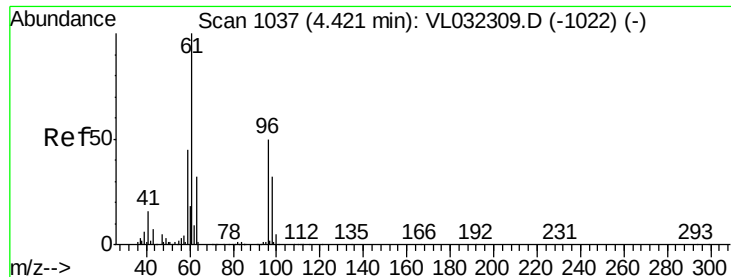
Tgt Ion: 39 Resp: 2020983

Ion Ratio Lower Upper

39 100

54 0.0 74.3 111.5#





#17

tert-Butyl alcohol

Concen: 428.639 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. 0.05 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

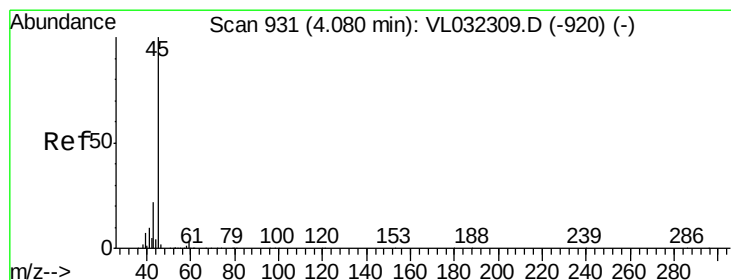
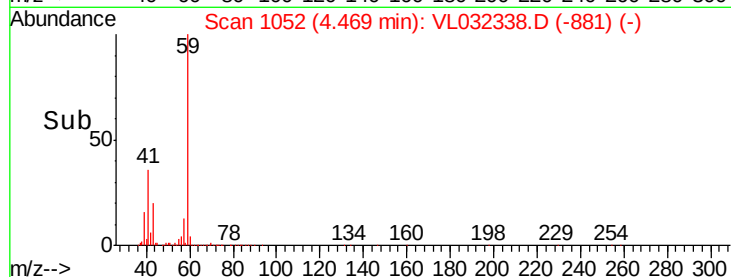
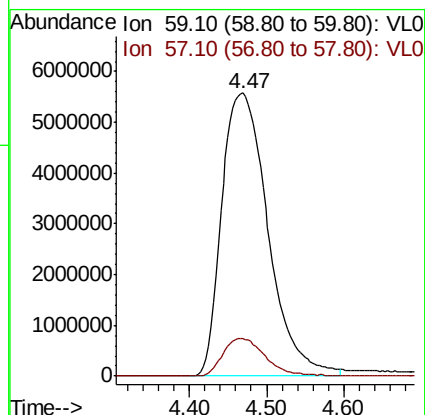
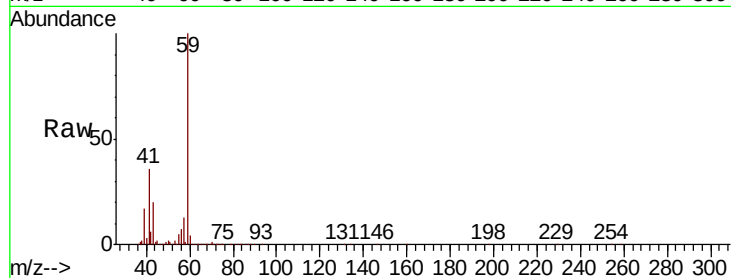
ClientSampled :

Tot Ion: 59 Resp:23228649

Ion Ratio Lower Upper

59 100

57 12.4 8.0 12.0#



#19

Isopropyl Alcohol

Concen: 10.379 ppbv

RT: 4.14 min Scan# 949

Delta R.T. 0.06 min

Lab File: VL032338.D

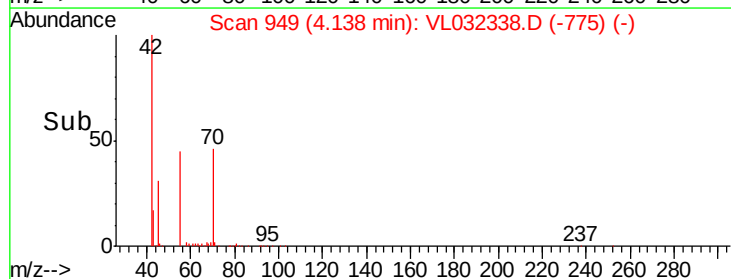
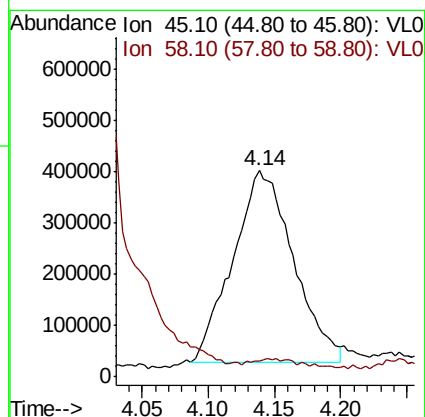
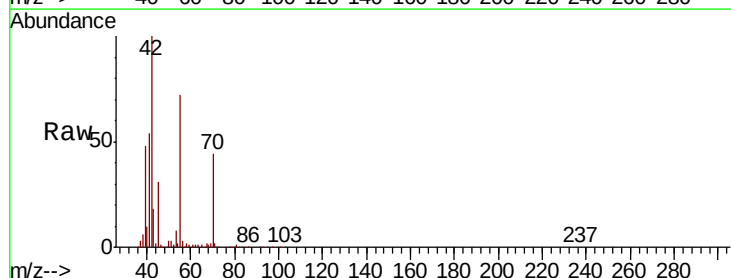
Acq: 2 Aug 2018 1:19

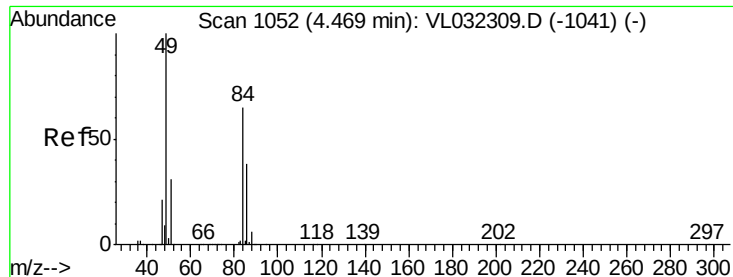
Tgt Ion: 45 Resp: 1180810

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#

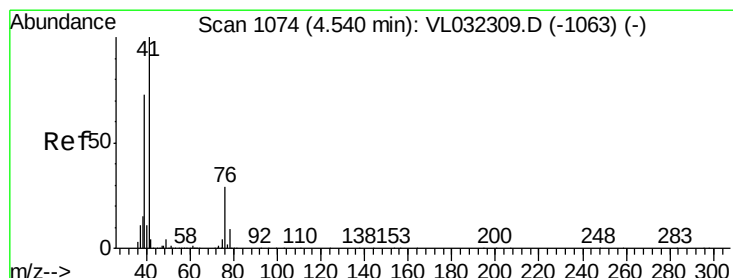
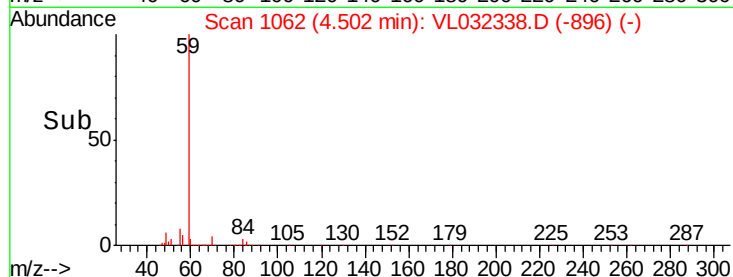
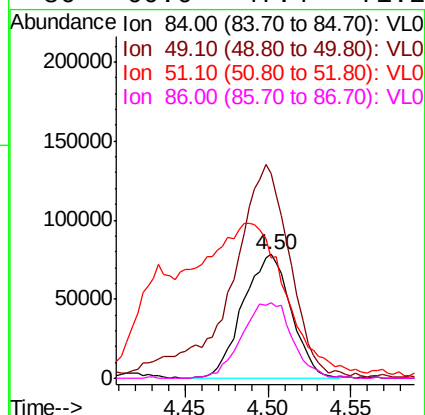
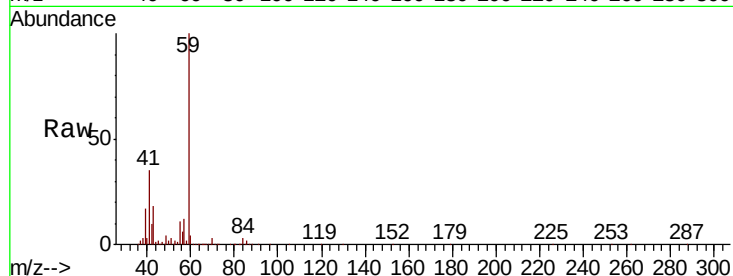




#20
Methylene Chloride
Concen: 2.320 ppbv
RT: 4.50 min Scan# 1062
Delta R.T. 0.03 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

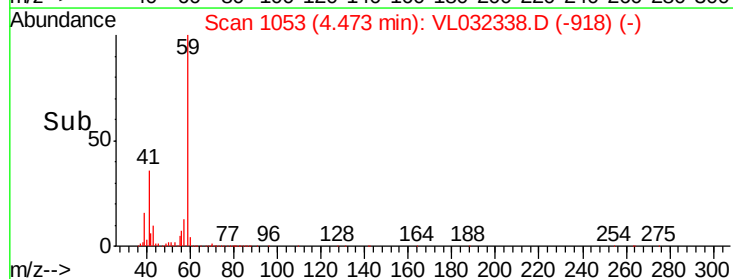
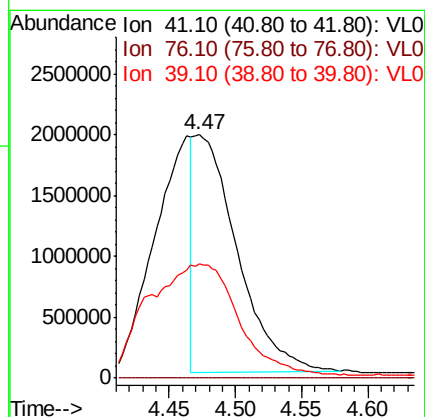
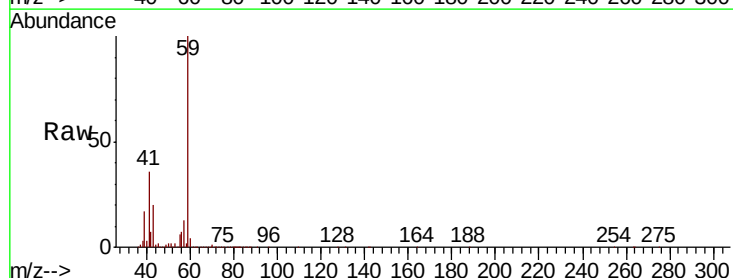
Instrument :
MSVOA_L
ClientSampleId :

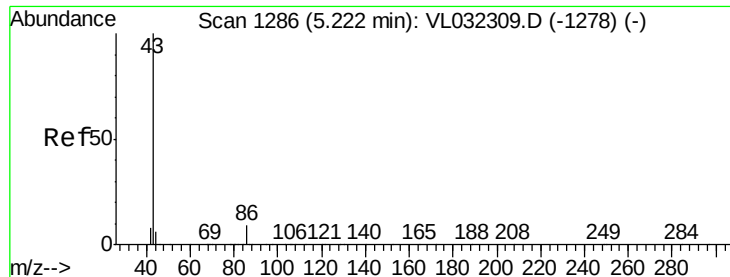
Tot Ion: 84 Resp: 159014
Ion Ratio Lower Upper
84 100
49 160.5 123.4 185.0
51 87.2 38.2 57.2#
86 60.6 47.4 71.2



#21
Allyl Chloride
Concen: 37.680 ppbv
RT: 4.47 min Scan# 1053
Delta R.T. -0.07 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion: 41 Resp: 4382873
Ion Ratio Lower Upper
41 100
76 0.0 23.1 34.7#
39 102.1 58.2 87.2#





#23

Vinyl Acetate

Concen: 9.372 ppbv

RT: 5.25 min Scan# 1295

Delta R.T. 0.03 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 43 Resp: 2866472

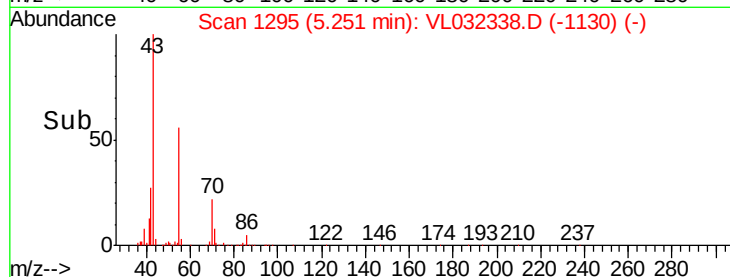
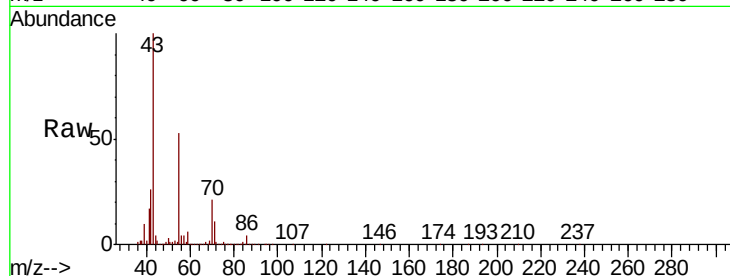
Ion Ratio Lower Upper

43 100

86 4.5 6.3 9.5#

42 25.9 7.0 10.4#

44 2.6 4.6 7.0#

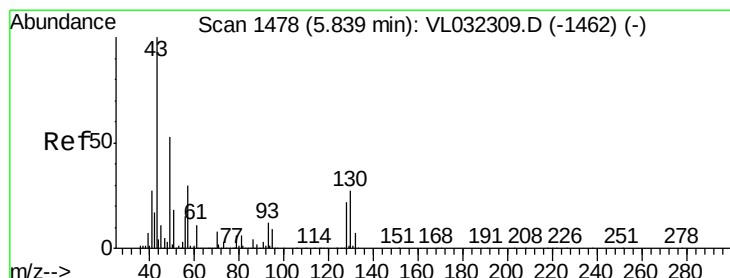
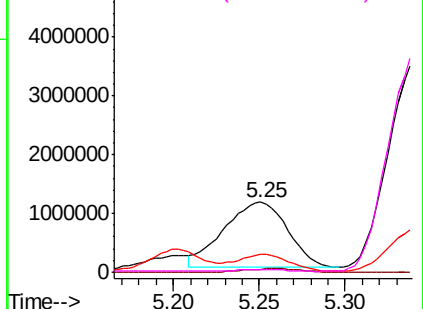


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 5.346 ppbv

RT: 5.85 min Scan# 1481

Delta R.T. 0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Tgt Ion: 43 Resp: 2045298

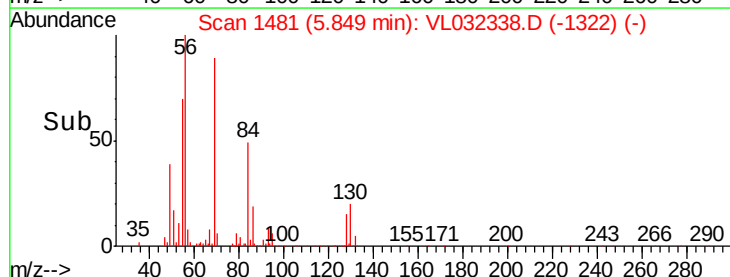
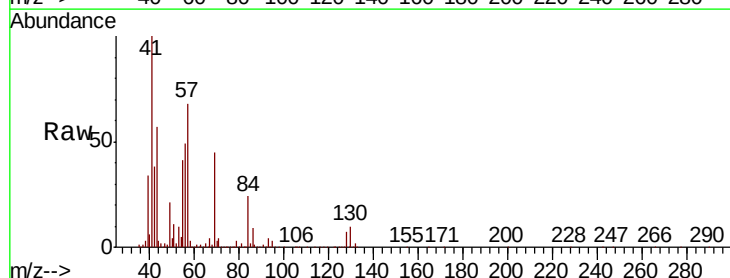
Ion Ratio Lower Upper

43 100

45 0.0 8.1 12.1#

61 2.1 7.4 11.0#

70 10.7 5.6 8.4#

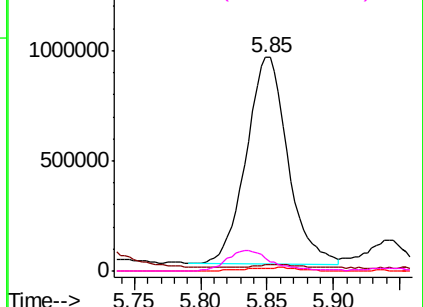


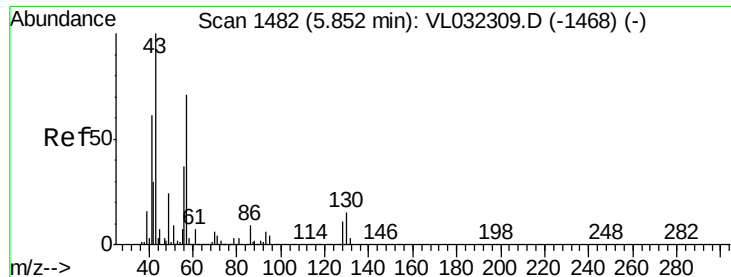
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

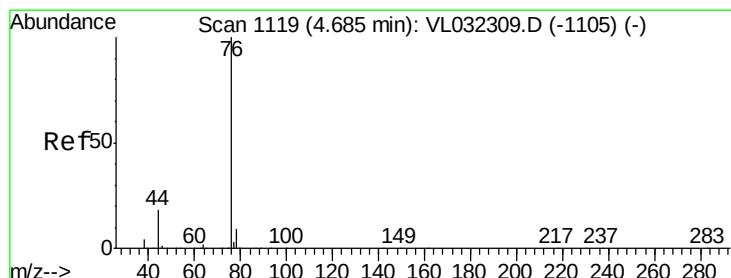
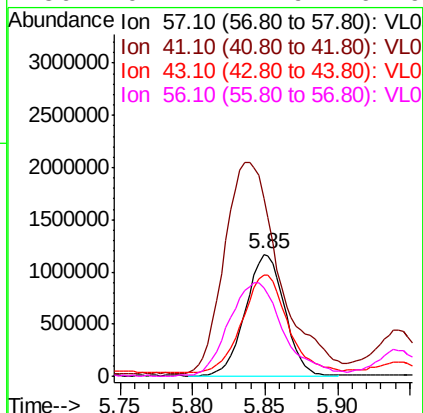
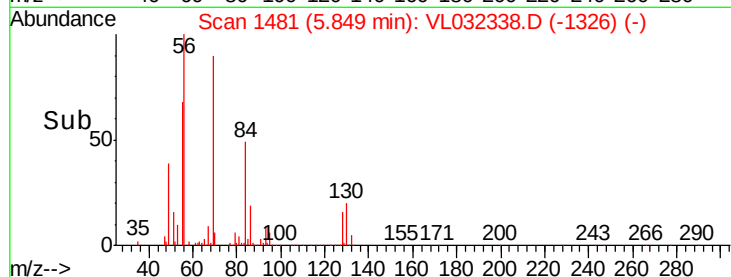
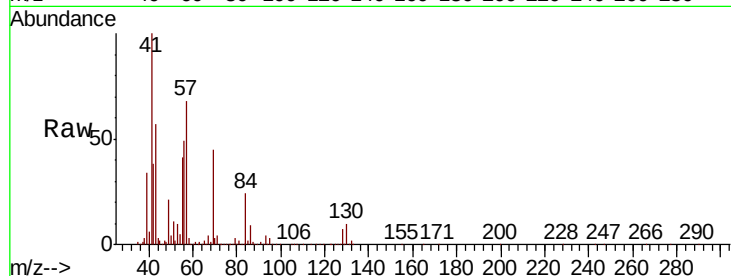




#26
Hexane
Concen: 12.540 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

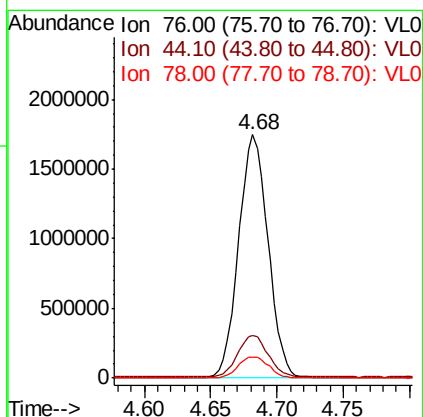
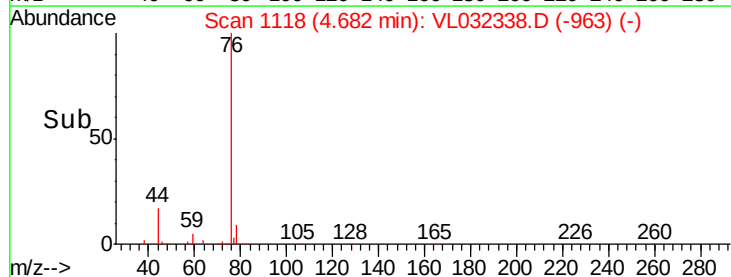
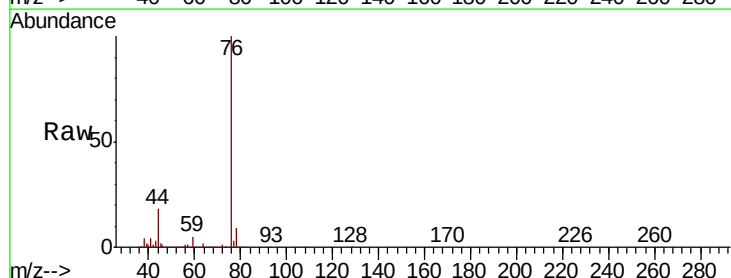
Instrument :
MSVOA_L
ClientSampleId :

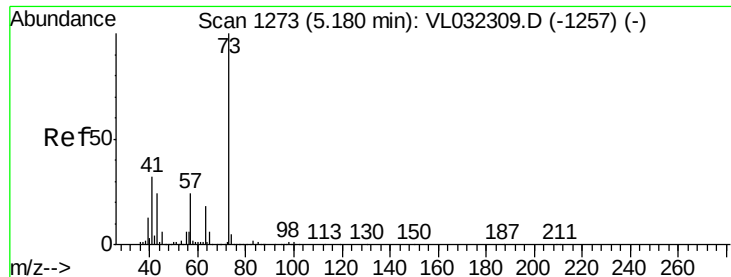
Tot Ion: 57 Resp: 2171119
Ion Ratio Lower Upper
57 100
41 247.8 68.1 102.1#
43 94.1 177.4 266.2#
56 107.1 41.9 62.9#



#27
Carbon Disulfide
Concen: 17.163 ppbv
RT: 4.68 min Scan# 1118
Delta R.T. -0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion: 76 Resp: 2701502
Ion Ratio Lower Upper
76 100
44 17.8 14.0 21.0
78 9.2 7.5 11.3



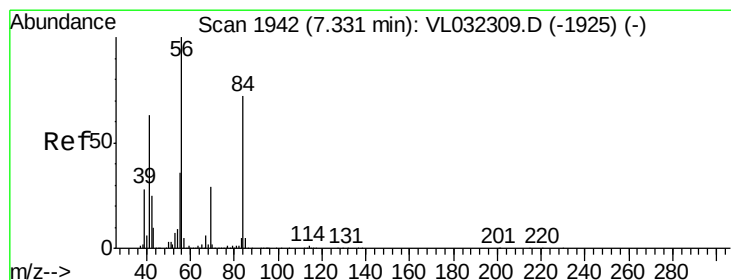
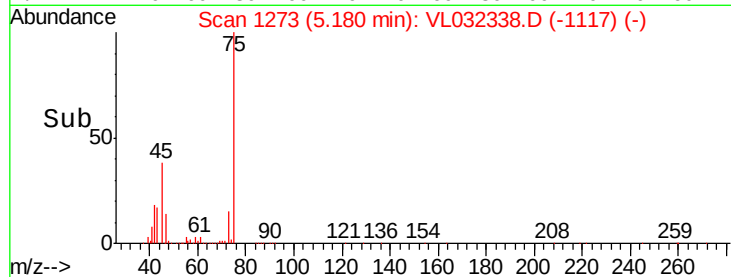
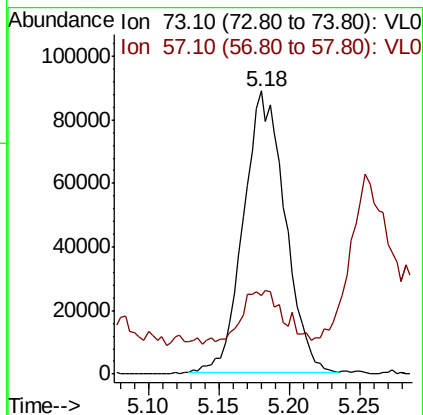
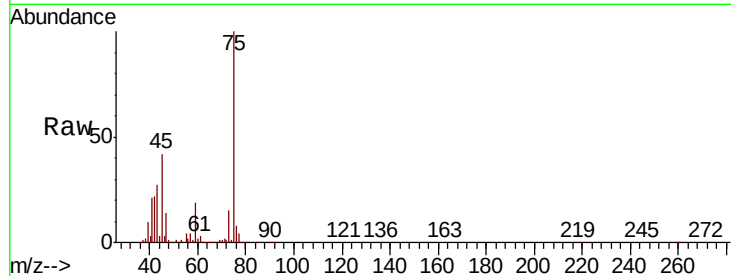


#28

Methyl tert-Butyl Ether
 Concen: 0.781 ppbv
 RT: 5.18 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Instrument :
 MSVOA_L
 ClientSampleId :

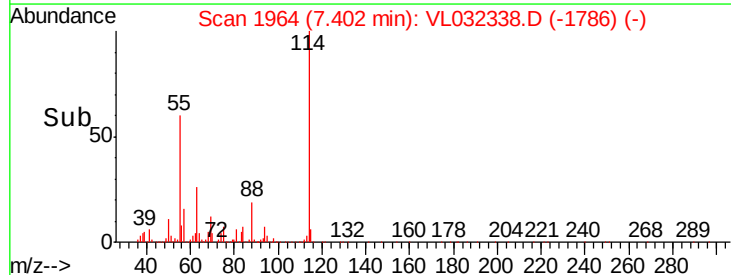
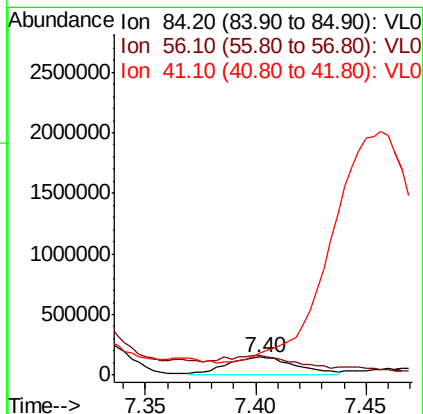
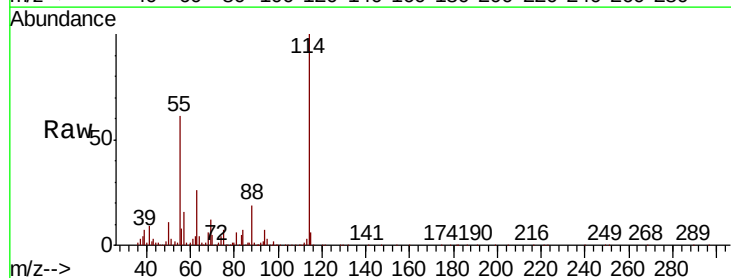
Tot Ion: 73 Resp: 182840
 Ion Ratio Lower Upper
 73 100
 57 0.0 19.4 29.0#

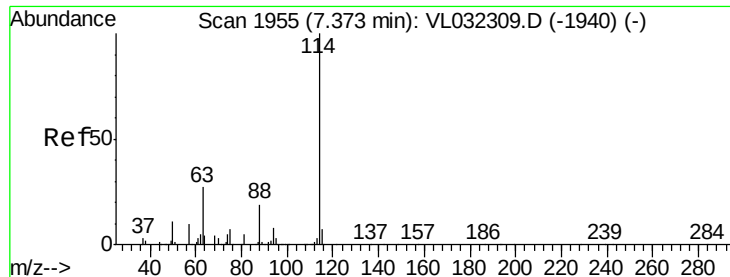


#30

Cyclohexane
 Concen: 2.363 ppbv
 RT: 7.40 min Scan# 1964
 Delta R.T. 0.07 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Tgt Ion: 84 Resp: 319136
 Ion Ratio Lower Upper
 84 100
 56 151.5 116.8 175.2
 41 0.0 70.0 105.0#

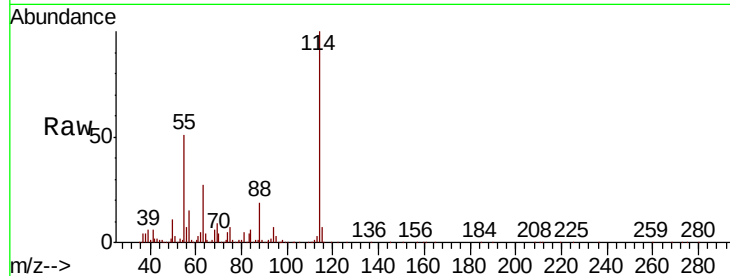




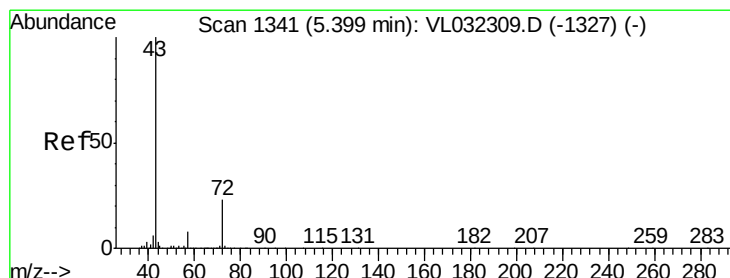
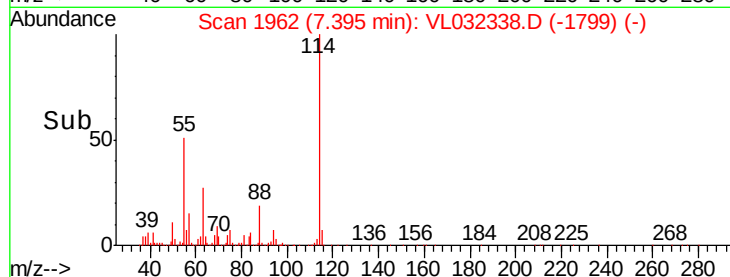
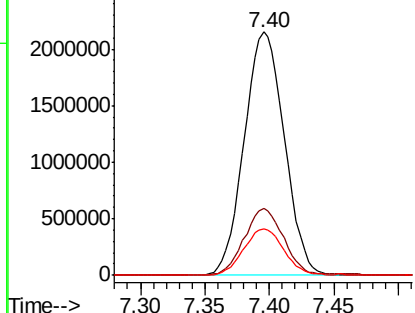
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.40 min Scan# 1962
 Delta R.T. 0.02 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4665787
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.4 33.6
 88 19.4 15.3 22.9

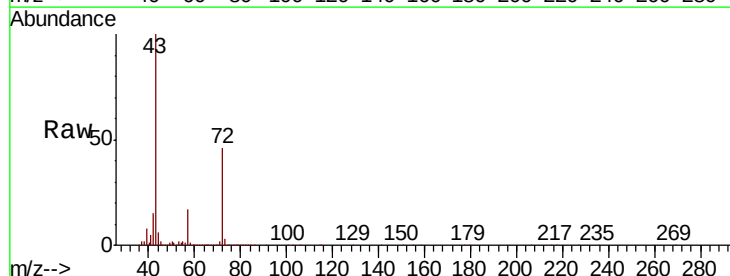


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

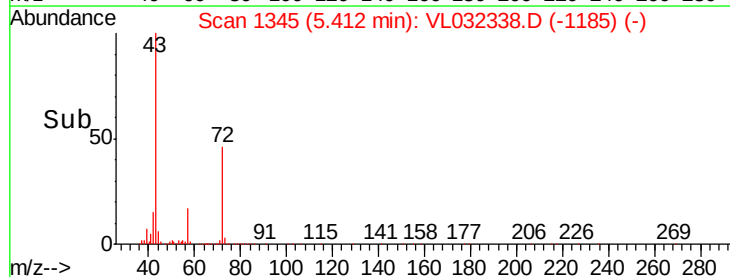
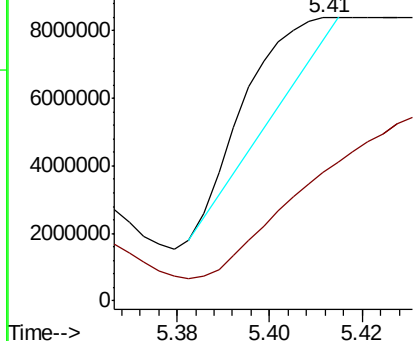


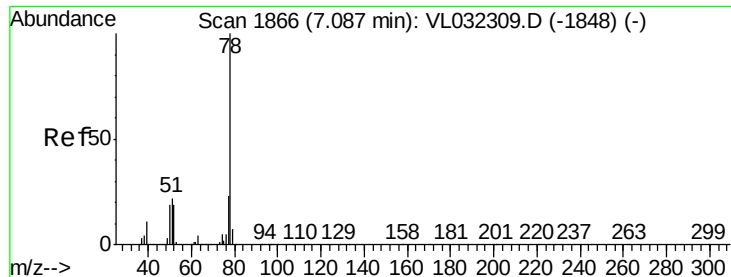
#34
 2-Butanone
 Concen: 9.602 ppbv
 RT: 5.41 min Scan# 1345
 Delta R.T. 0.01 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Tgt Ion: 43 Resp: 2899756
 Ion Ratio Lower Upper
 43 100
 72 602.7 17.4 26.2#



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





#36

Benzene

Concen: 12.475 ppbv

RT: 7.10 min Scan# 1870

Delta R.T. 0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

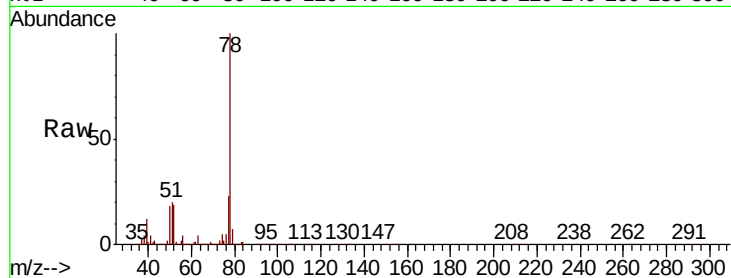
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 78 Resp: 5130941

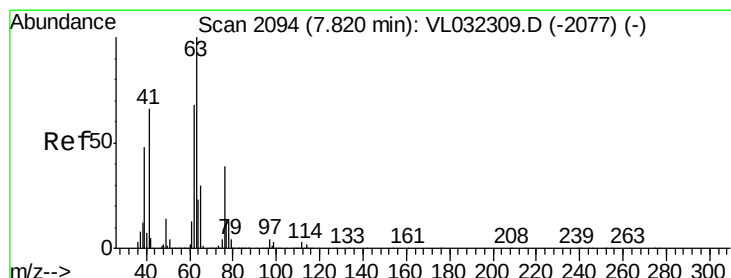
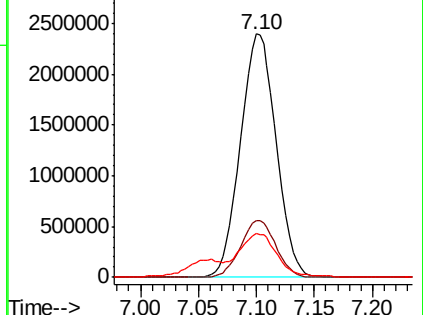
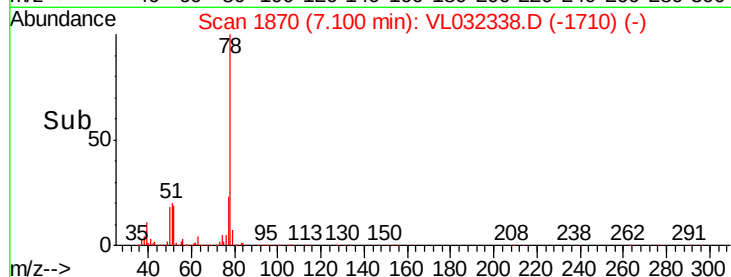
Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.4	27.6
50	17.7	15.3	22.9



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



#39

1,2-Dichloropropane

Concen: 0.075 ppbv

RT: 8.01 min Scan# 2153

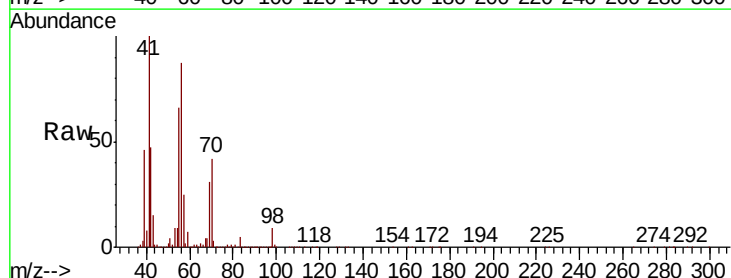
Delta R.T. 0.19 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Tgt Ion: 63 Resp: 15533

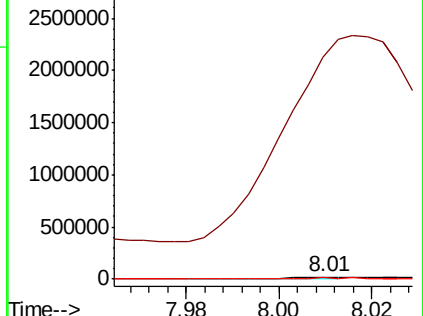
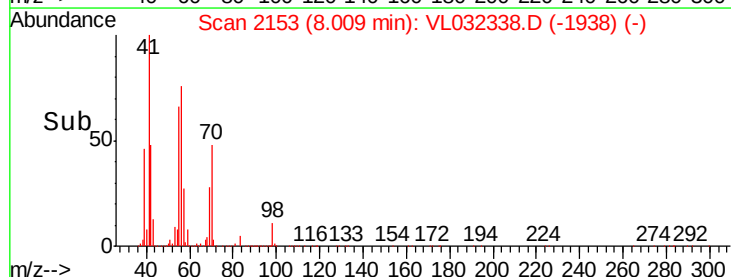
Ion	Ratio	Lower	Upper
63	100		
41	11083.5	52.5	78.7#
62	43.0	54.6	81.8#

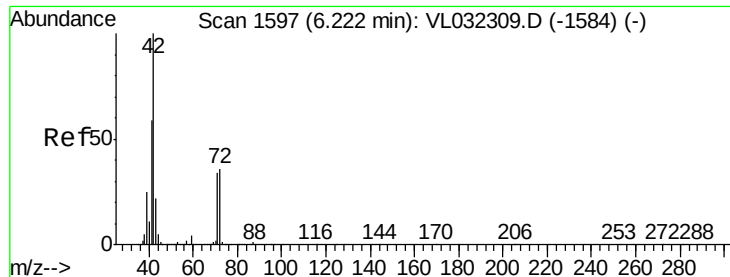


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

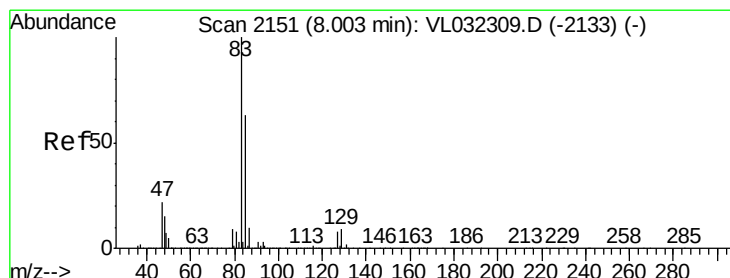
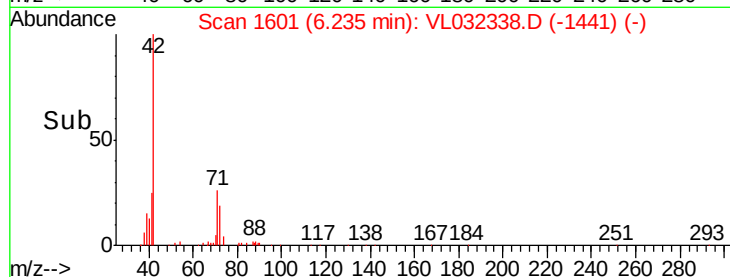
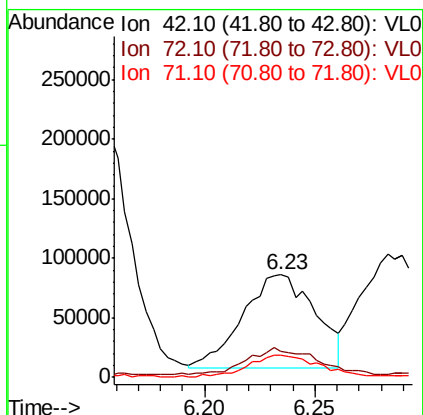
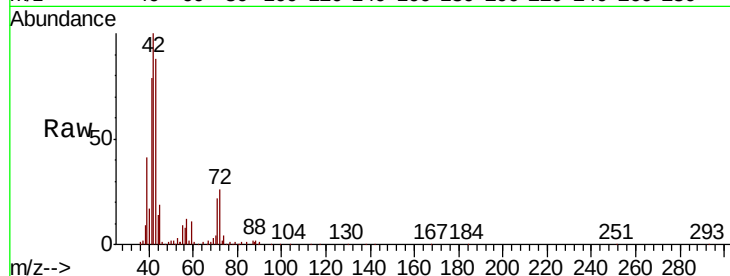




#41
Tetrahydrofuran
Concen: 1.047 ppbv
RT: 6.23 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

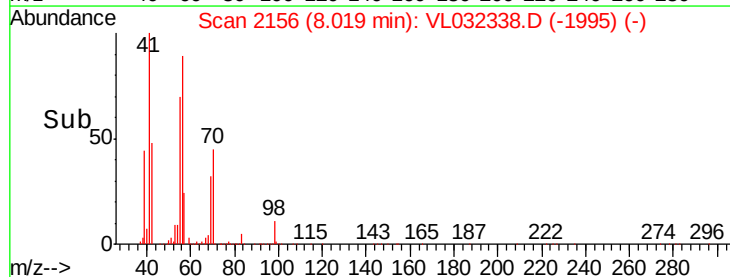
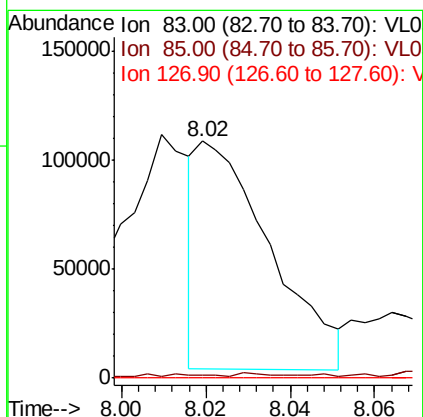
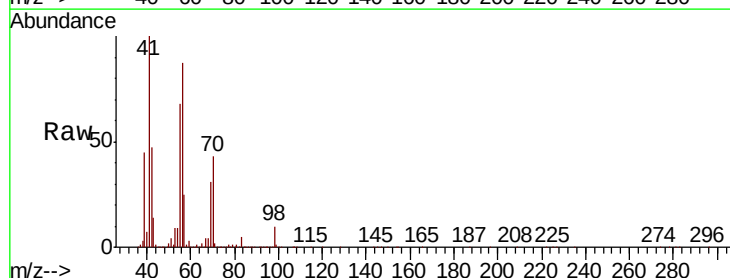
Instrument :
MSVOA_L
ClientSampled :

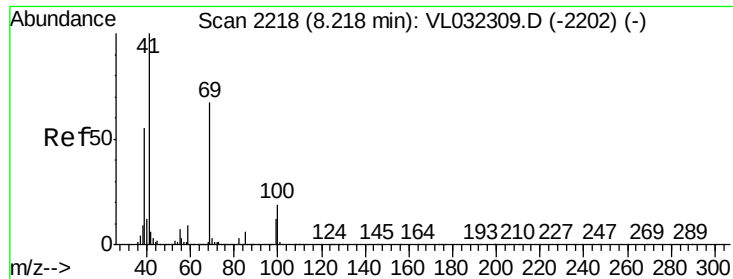
Tot Ion	Ratio	Lower	Upper
42	100		
72	27.1	28.6	42.8#
71	22.6	27.8	41.6#



#42
Bromodichloromethane
Concen: 0.325 ppbv
RT: 8.02 min Scan# 2156
Delta R.T. 0.02 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	0.7	50.7	76.1#
127	0.0	6.0	9.0#





#43

Methyl Methacrylate

Concen: 7.265 ppbv

RT: 8.27 min Scan# 2233

Delta R.T. 0.05 min

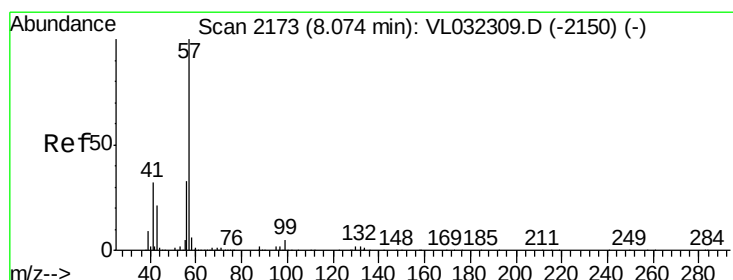
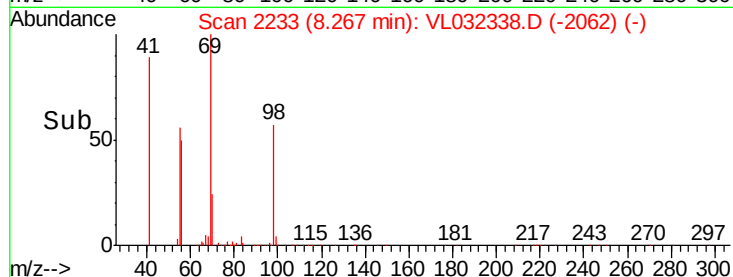
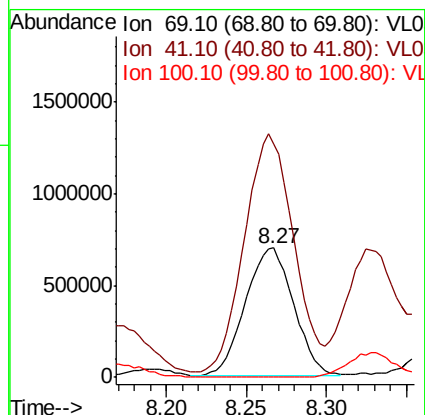
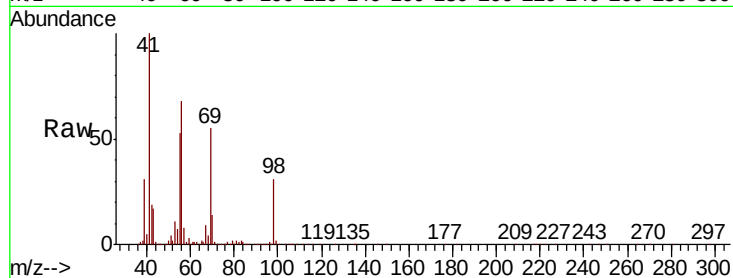
Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 69 Resp: 1434226

Ion	Ratio	Lower	Upper
69	100		
41	200.3	120.6	180.8#
100	0.0	23.2	34.8#



#44

2,2,4-Trimethylpentane

Concen: 2.914 ppbv

RT: 8.08 min Scan# 2174

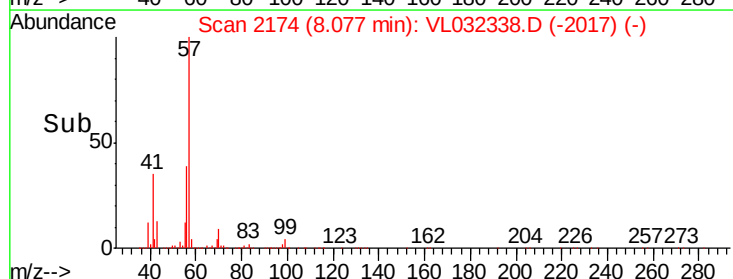
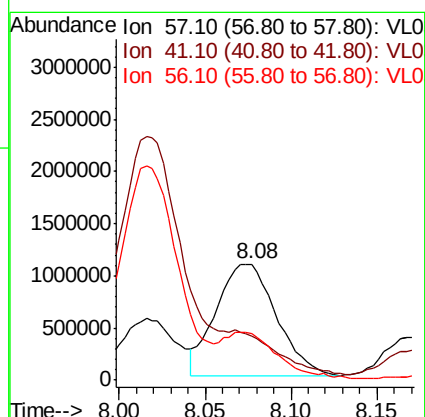
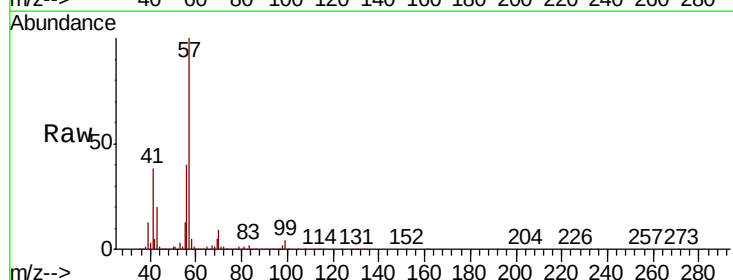
Delta R.T. 0.00 min

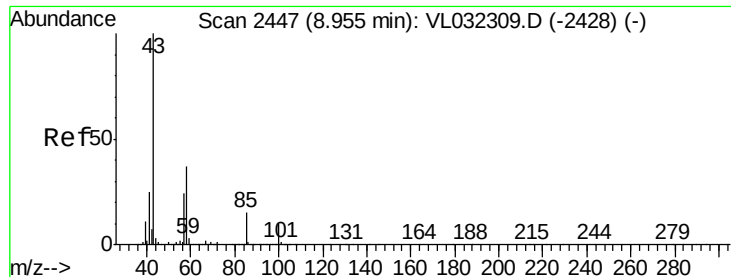
Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Tgt Ion: 57 Resp: 2598978

Ion	Ratio	Lower	Upper
57	100		
41	0.0	24.3	36.5#
56	32.1	25.4	38.2

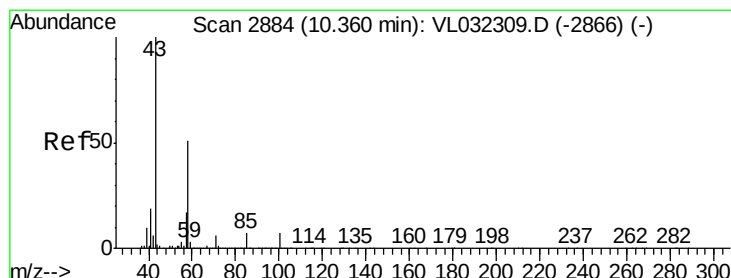
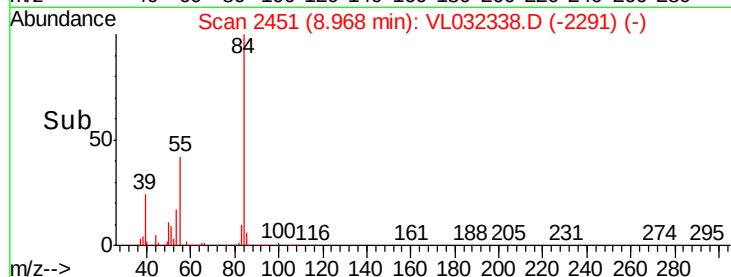
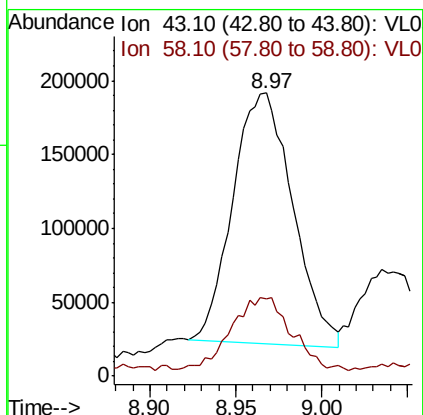
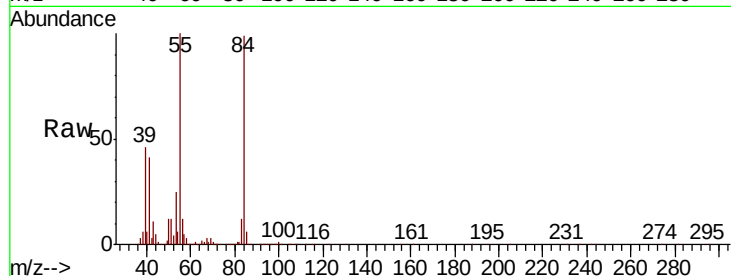




#50
 4-Methyl-2-Pentanone
 Concen: 0.773 ppbv
 RT: 8.97 min Scan# 2451
 Delta R.T. 0.01 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

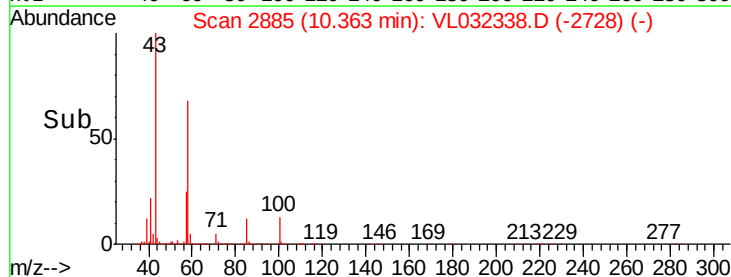
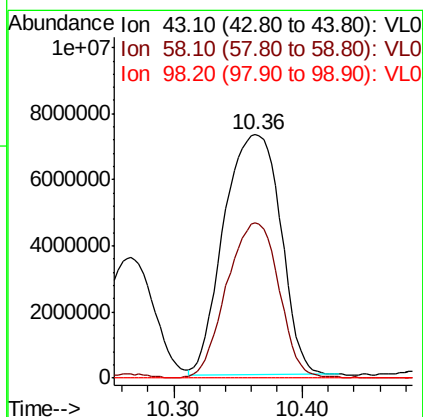
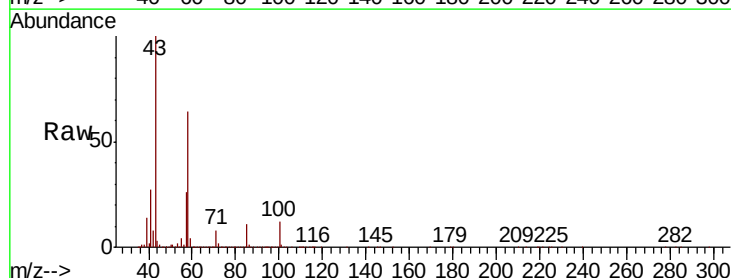
Instrument :
 MSVOA_L
 ClientSampleId :

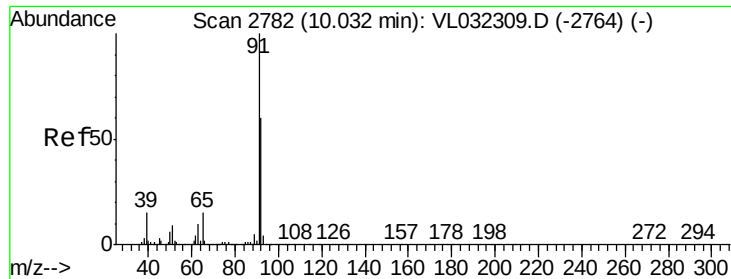
Tot Ion: 43 Resp: 411792
 Ion Ratio Lower Upper
 43 100
 58 32.2 28.9 43.3



#51
 2-Hexanone
 Concen: 55.009 ppbv
 RT: 10.36 min Scan# 2885
 Delta R.T. 0.00 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Tgt Ion: 43 Resp: 22336972
 Ion Ratio Lower Upper
 43 100
 58 58.9 39.1 58.7#
 98 0.0 0.3 0.5#





#53

Toluene

Concen: 4.594 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. 0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

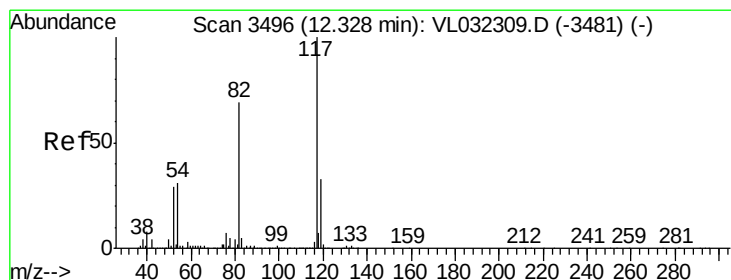
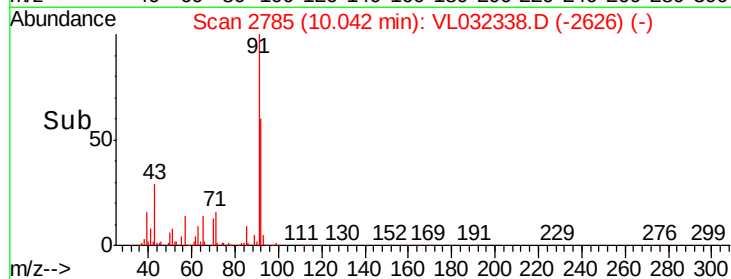
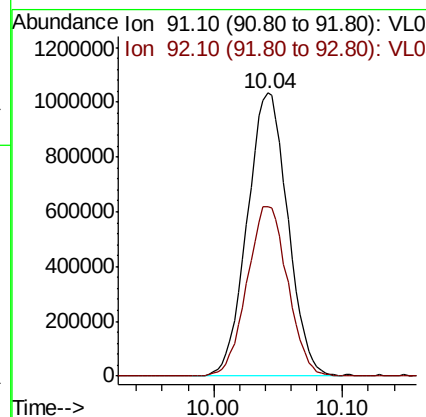
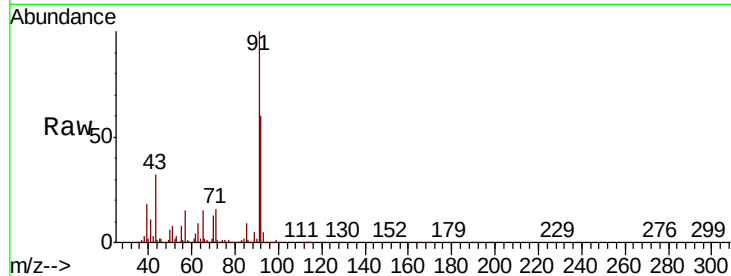
ClientSampled :

Tot Ion: 91 Resp: 2258638

Ion Ratio Lower Upper

91 100

92 60.0 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.33 min Scan# 3498

Delta R.T. 0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

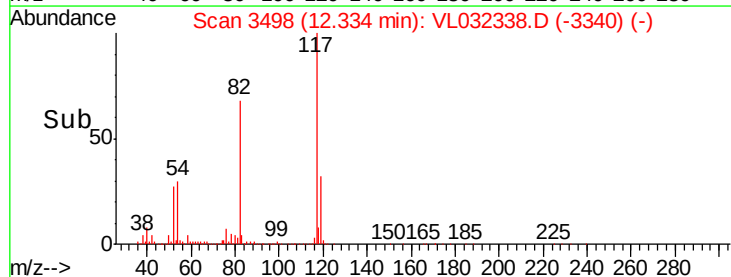
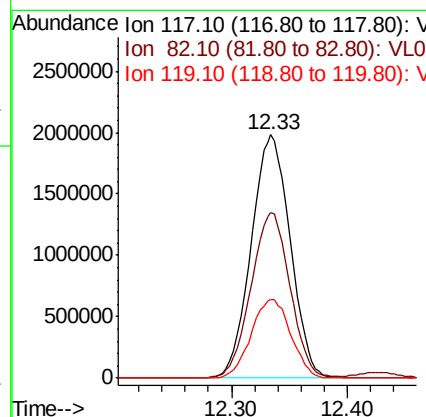
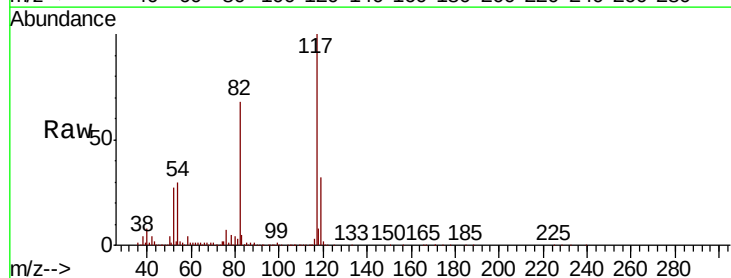
Tgt Ion: 117 Resp: 4628648

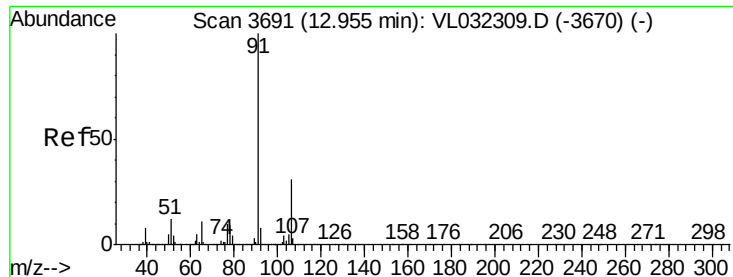
Ion Ratio Lower Upper

117 100

82 68.1 52.6 78.8

119 33.0 25.7 38.5





#58

Ethyl Benzene

Concen: 1.256 ppbv

RT: 12.95 min Scan# 3691

Delta R.T. 0.00 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

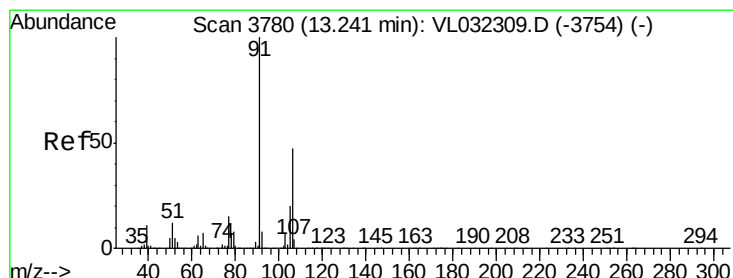
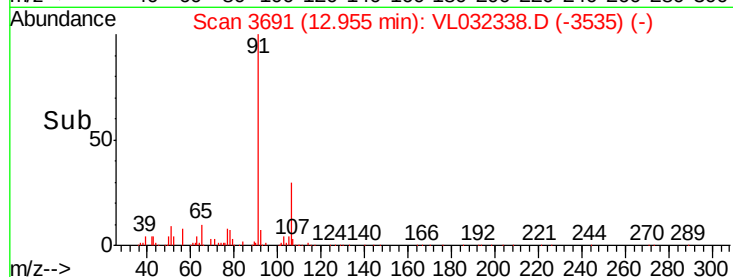
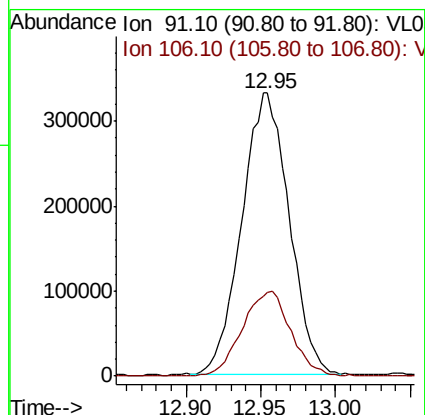
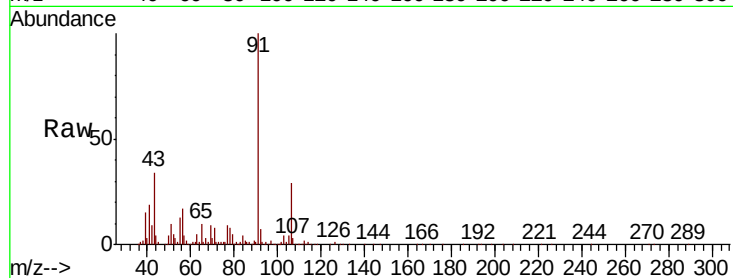
ClientSampleId :

Tot Ion: 91 Resp: 729081

Ion Ratio Lower Upper

91 100

106 29.6 25.0 37.4



#59

m/p-Xylene

Concen: 4.241 ppbv

RT: 13.21 min Scan# 3770

Delta R.T. -0.03 min

Lab File: VL032338.D

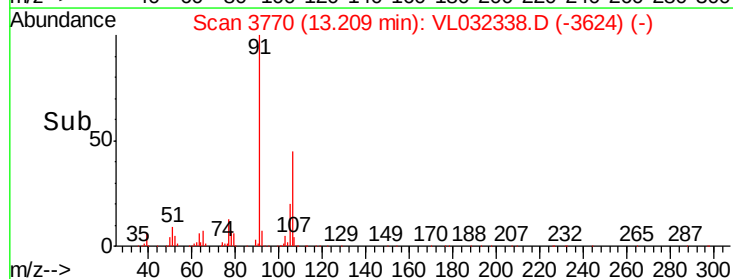
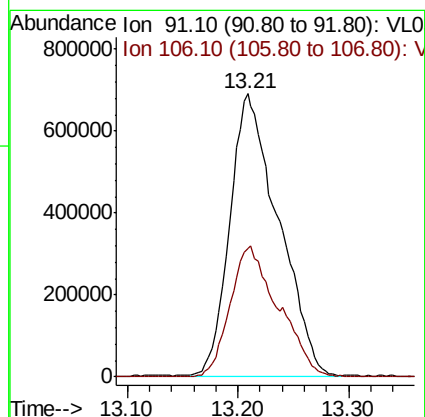
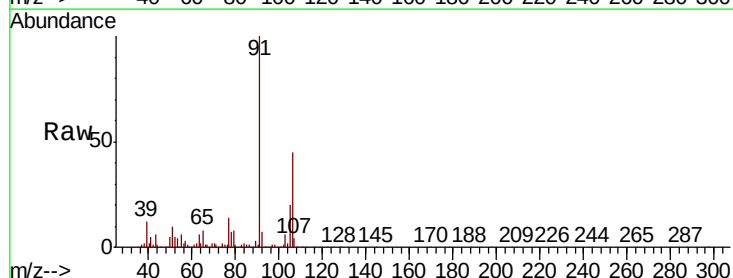
Acq: 2 Aug 2018 1:19

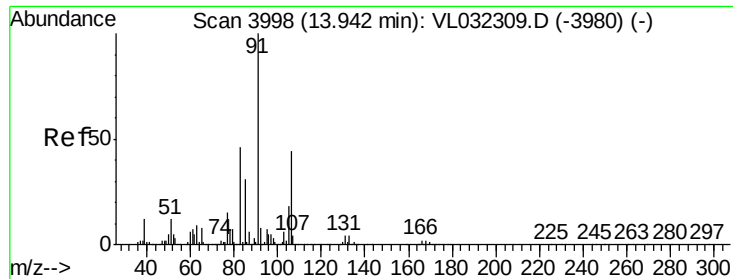
Tgt Ion: 91 Resp: 2095473

Ion Ratio Lower Upper

91 100

106 46.2 36.4 54.6





#60

o-Xylene

Concen: 1.754 ppbv

RT: 13.93 min Scan# 3995

Delta R.T. -0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

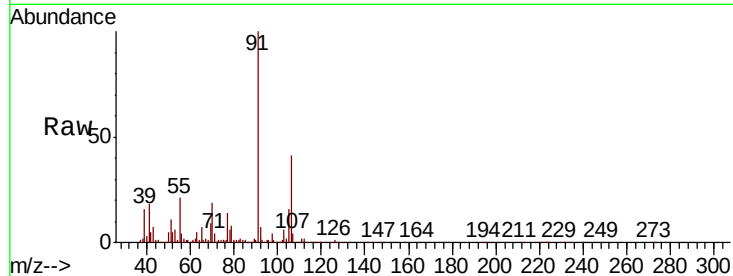
ClientSampled :

Tot Ion: 91 Resp: 849759

Ion Ratio Lower Upper

91 100

106 45.1 22.4 67.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.93

400000

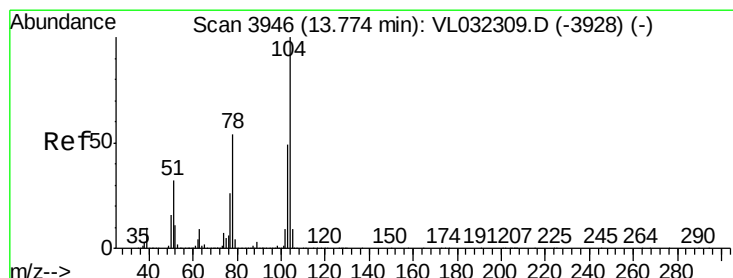
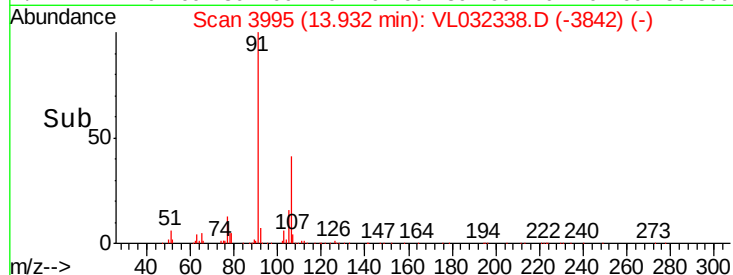
300000

200000

100000

0

Time-->



#61

Styrene

Concen: 0.325 ppbv

RT: 13.78 min Scan# 3947

Delta R.T. 0.00 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

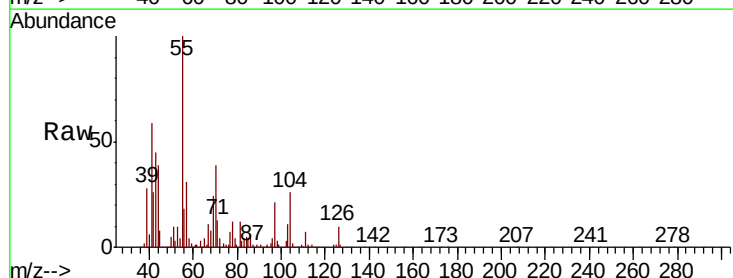
Tgt Ion: 104 Resp: 115865

Ion Ratio Lower Upper

104 100

78 54.5 42.6 63.8

103 46.8 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

13.78

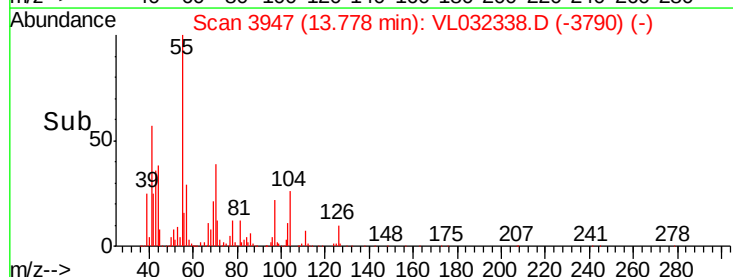
60000

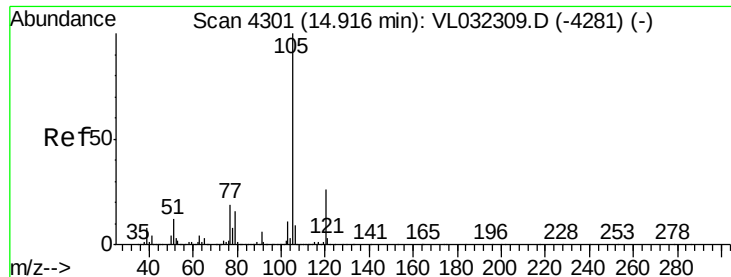
40000

20000

0

Time-->





#62

Isopropylbenzene

Concen: 0.046 ppbv

RT: 14.92 min Scan# 4302

Delta R.T. 0.00 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

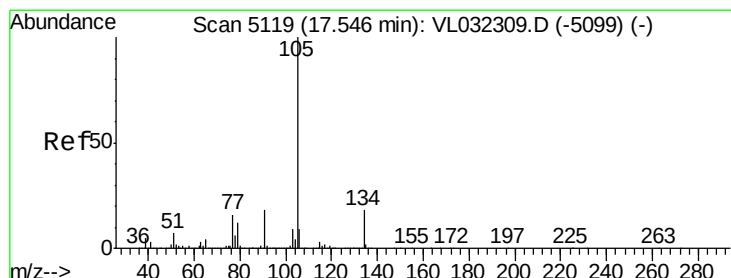
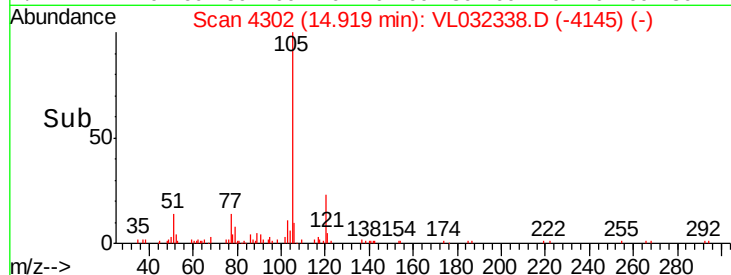
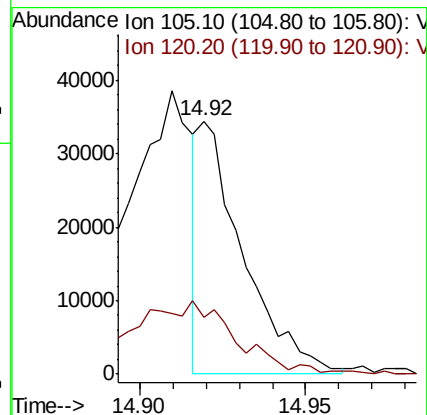
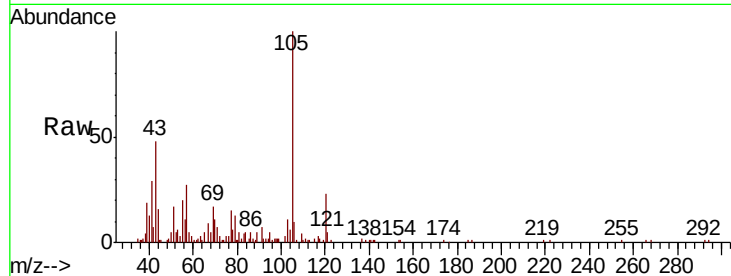
ClientSampleId :

Tot Ion:105 Resp: 31680

Ion Ratio Lower Upper

105 100

120 71.5 20.4 30.6#



#67

sec-Butylbenzene

Concen: 0.342 ppbv

RT: 17.85 min Scan# 5212

Delta R.T. 0.30 min

Lab File: VL032338.D

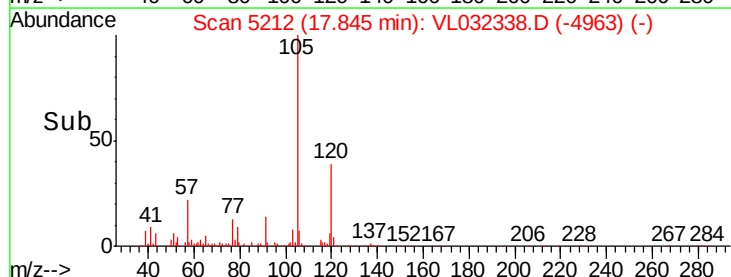
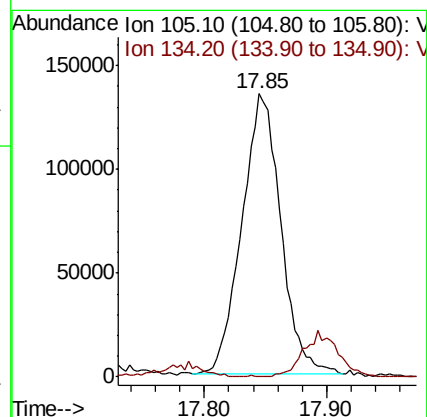
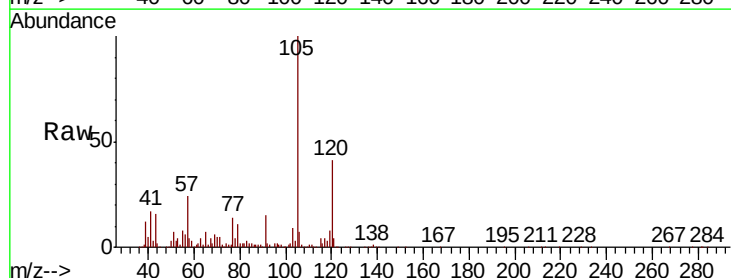
Acq: 2 Aug 2018 1:19

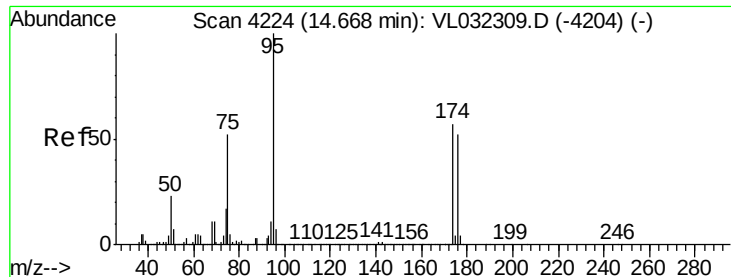
Tgt Ion:105 Resp: 298016

Ion Ratio Lower Upper

105 100

134 14.6 14.2 21.4

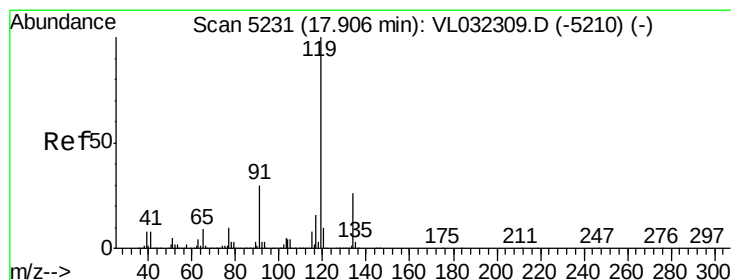
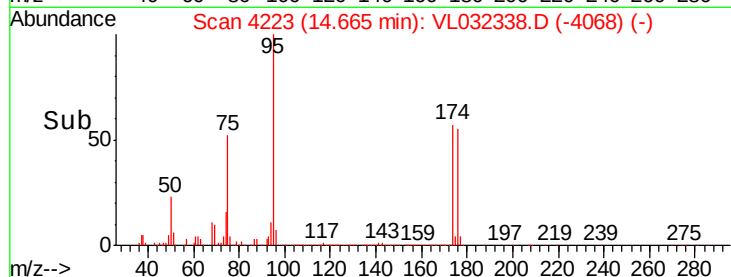
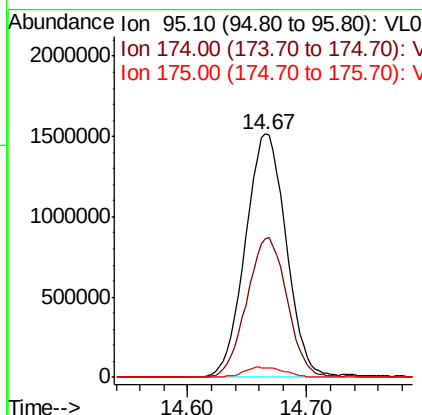
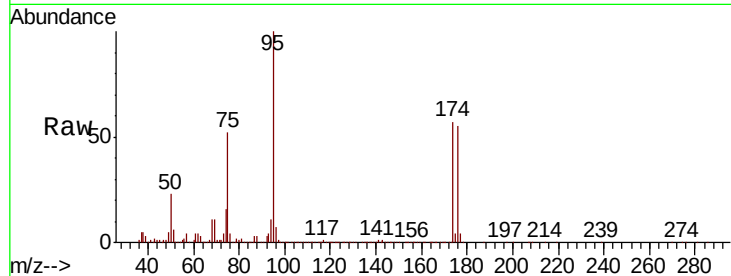




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.001 ppbv
 RT: 14.67 min Scan# 4223
 Delta R.T. -0.00 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

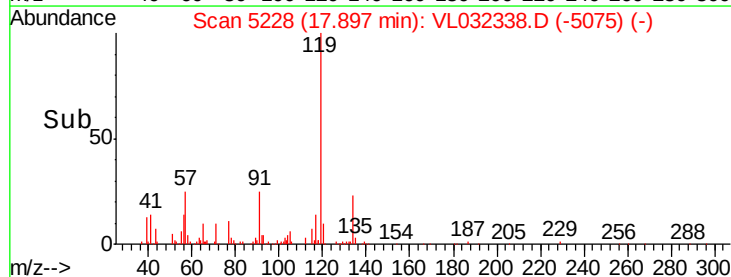
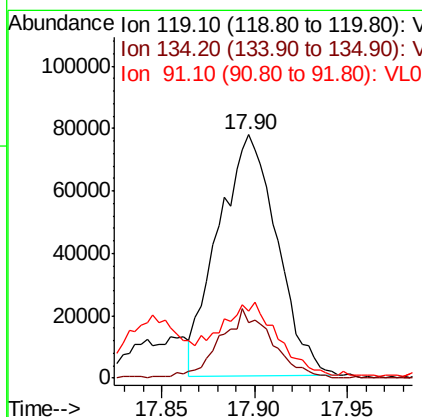
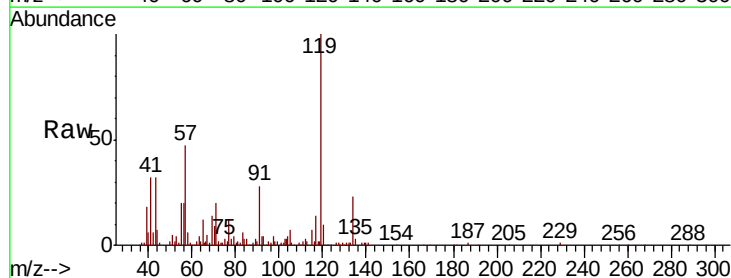
Instrument :
 MSVOA_L
 ClientSampleId :

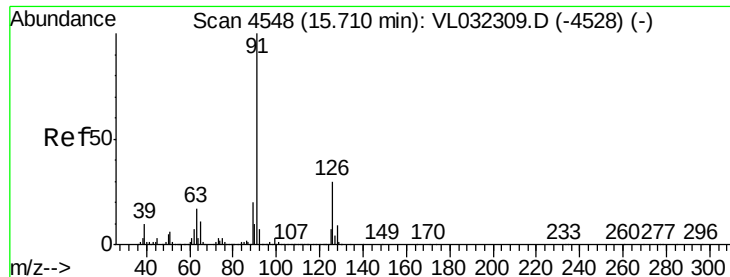
Tot Ion: 95 Resp: 3593200
 Ion Ratio Lower Upper
 95 100
 174 57.3 45.5 68.3
 175 4.2 3.3 4.9



#69
 p-Isopropyltoluene
 Concen: 0.252 ppbv
 RT: 17.90 min Scan# 5228
 Delta R.T. -0.01 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Tgt Ion: 119 Resp: 169847
 Ion Ratio Lower Upper
 119 100
 134 25.6 20.3 30.5
 91 31.5 23.8 35.6





#71

2-Chlorotoluene

Concen: 0.183 ppbv

RT: 15.81 min Scan# 4579

Delta R.T. 0.10 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

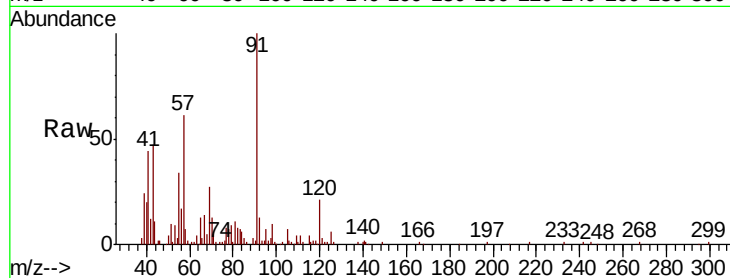
ClientSampleId :

Tot Ion: 91 Resp: 98805

Ion Ratio Lower Upper

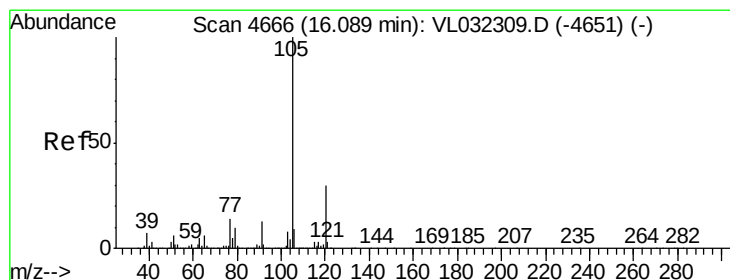
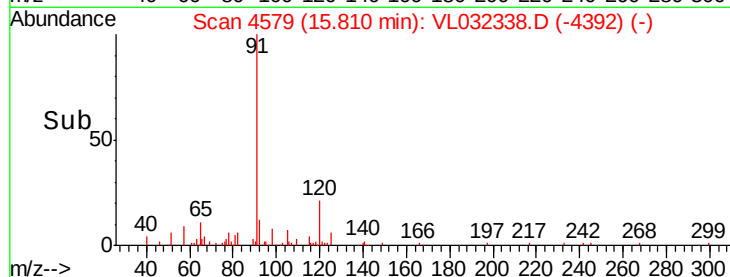
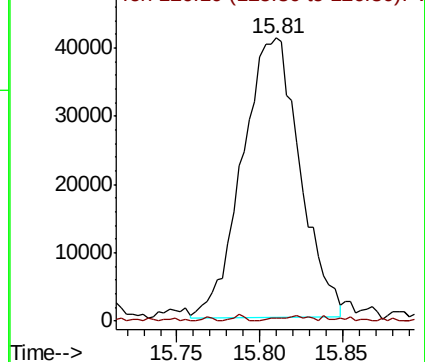
91 100

126 0.6 11.8 47.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.080 ppbv

RT: 16.09 min Scan# 4666

Delta R.T. 0.00 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Tgt Ion: 105 Resp: 43511

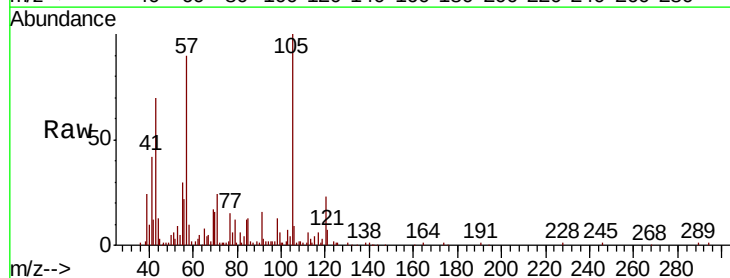
Ion Ratio Lower Upper

105 100

120 0.0 23.1 34.7#

91 42.5 10.0 15.0#

77 0.0 11.5 17.3#

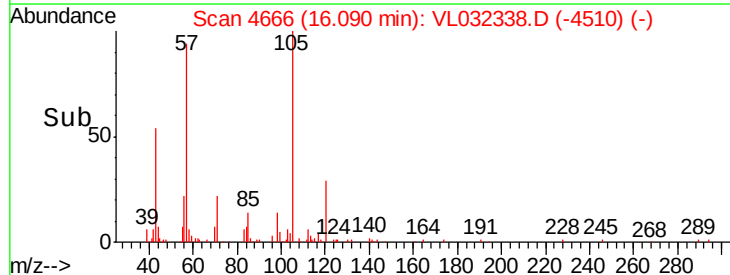
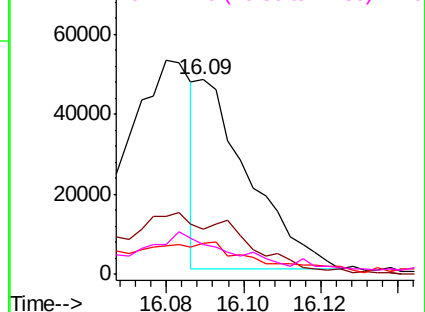


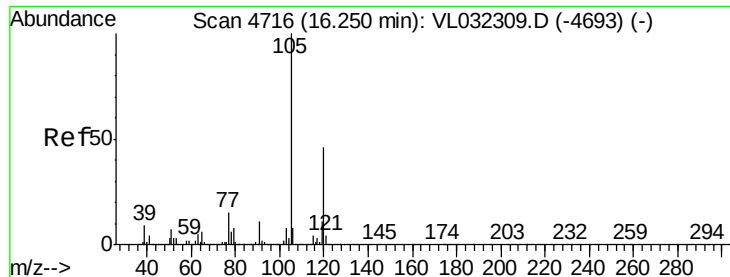
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.419 ppbv

RT: 16.24 min Scan# 4713

Delta R.T. -0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

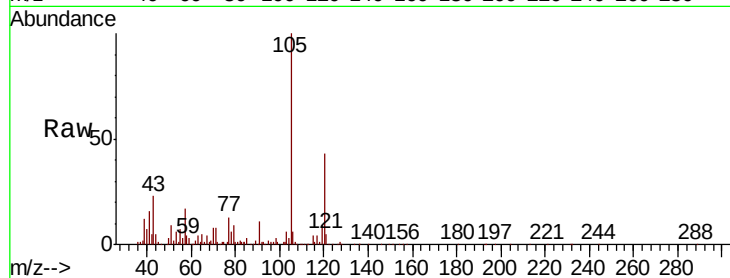
ClientSampled :

Tot Ion:105 Resp: 223956

Ion Ratio Lower Upper

105 100

120 43.3 36.5 54.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.24

120000

100000

80000

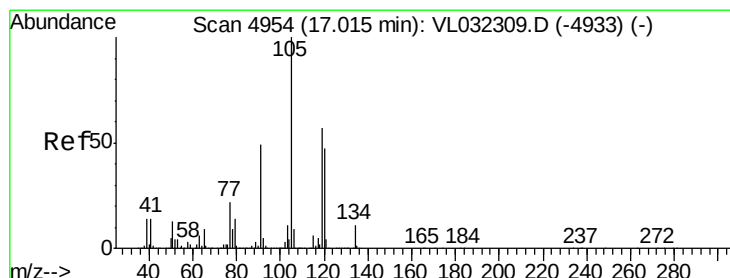
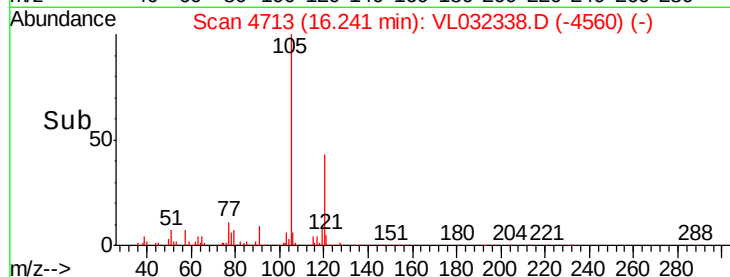
60000

40000

20000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.037 ppbv

RT: 17.01 min Scan# 4952

Delta R.T. -0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Tgt Ion:105 Resp: 583962

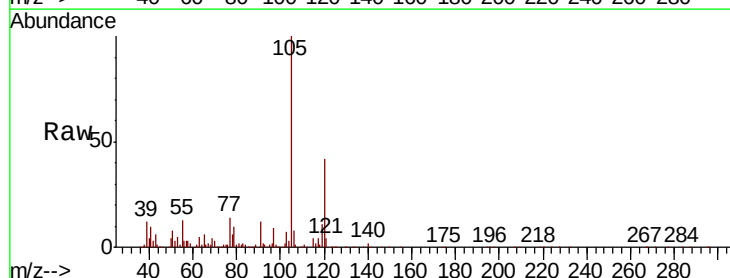
Ion Ratio Lower Upper

105 100

120 42.0 37.8 56.6

91 11.0 39.4 59.0#

77 14.2 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

400000

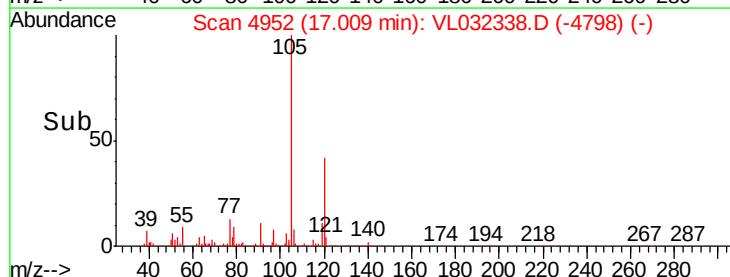
300000

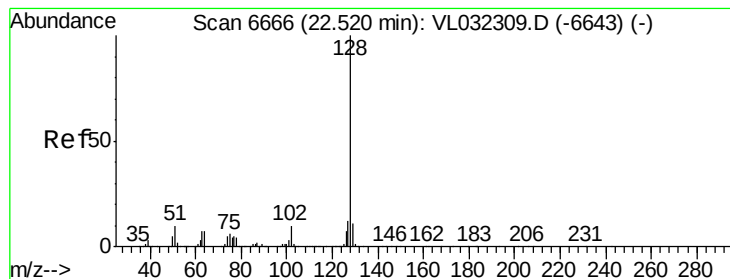
200000

100000

0

Time-->





#79

Naphthalene

Concen: 2.016 ppbv

RT: 22.50 min Scan# 6661

Delta R.T. -0.02 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

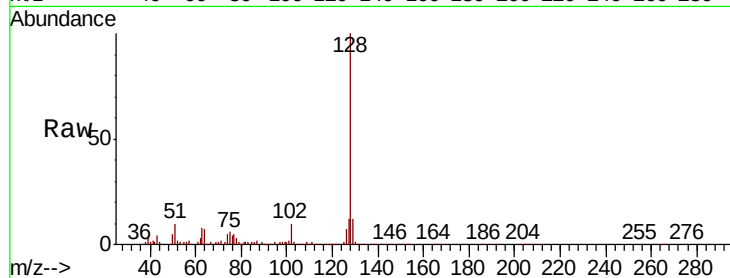
Tot Ion:128 Resp: 985546

Ion Ratio Lower Upper

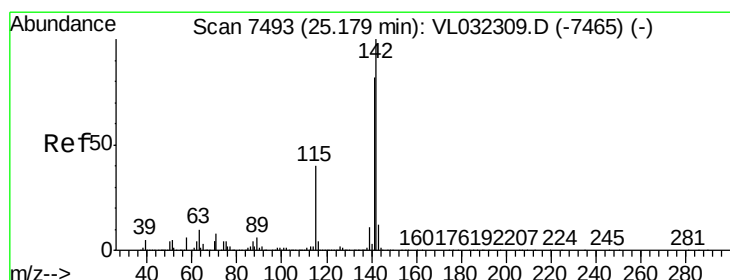
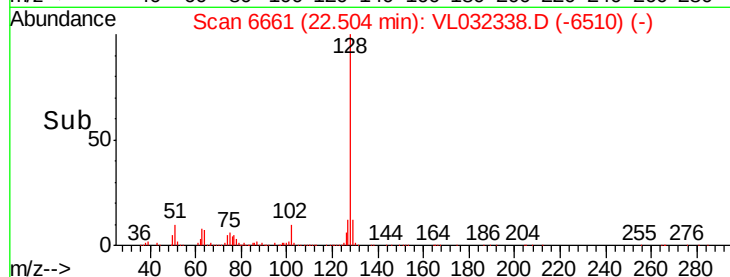
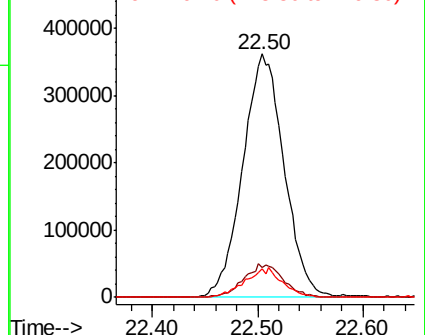
128 100

127 12.3 9.9 14.9

129 11.7 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



#80

Naphthalene, 2-methyl-

Concen: 0.689 ppbv

RT: 25.18 min Scan# 7492

Delta R.T. -0.00 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

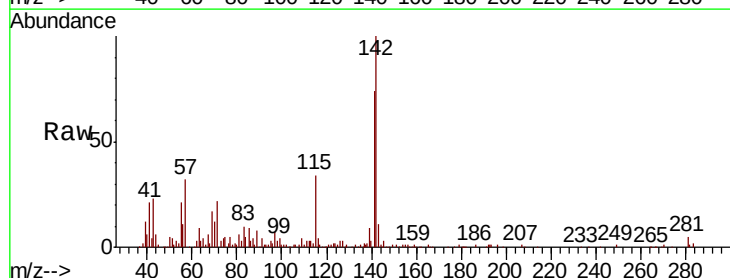
Tgt Ion:142 Resp: 133269

Ion Ratio Lower Upper

142 100

141 86.4 66.7 100.1

115 40.2 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

