

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032519\
 Data File : VL033449.D
 Acq On : 25 Mar 2019 23:26
 Operator : SY/AP
 Sample : K1991-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Quant Time: Mar 26 05:22:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
 QLast Update : Mon Mar 25 16:04:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	595072	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1371568	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1447256	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1164988	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.22	85	2742	0.032	ppbv	90
3) Chlorodifluoromethane	2.99	51	113878	1.662	ppbv #	65
4) Chloromethane	3.17	50	23323	0.643	ppbv	89
8) Dichlorotetrafluoroethane	3.22	85	2742	0.030	ppbv	97
9) Propene	3.24	41	90124	3.133	ppbv	98
10) Heptane	8.24	43	4705	0.065	ppbv #	27
11) Trichlorofluoromethane	4.00	101	31877	0.298	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3915	0.054	ppbv #	14
13) Ethanol	3.65	45	675778	99.549	ppbv	65
15) Acetone	3.90	43	914235	12.777	ppbv	97
16) 1,3-Butadiene	3.34	39	14962	0.527	ppbv #	6
17) tert-Butyl alcohol	4.38	59	16334	1.242	ppbv #	73
19) Isopropyl Alcohol	4.03	45	221637	4.897	ppbv #	1
20) Methylene Chloride	4.41	84	198636	6.540	ppbv	96
21) Allyl Chloride	4.41	41	5813	0.129	ppbv #	1
22) trans-1,2-Dichloroethene	4.96	96	1476	0.046	ppbv #	52
23) Vinyl Acetate	5.15	43	12367	0.121	ppbv #	88
25) Ethyl Acetate	5.77	43	472658	3.560	ppbv	98
26) Hexane	5.78	57	259143	4.390	ppbv	82
27) Carbon Disulfide	4.62	76	103736	1.478	ppbv #	93
30) Cyclohexane	7.25	84	10153	0.217	ppbv #	53
34) 2-Butanone	5.33	43	108848	1.321	ppbv	99
35) Carbon Tetrachloride	7.13	117	6988	0.078	ppbv #	92
36) Benzene	7.00	78	18253	0.159	ppbv #	89
37) 1,2-Dichloroethane	6.41	62	17351	0.225	ppbv	100
38) Trichloroethene	7.96	130	1265	0.029	ppbv #	42
39) 1,2-Dichloropropane	7.29	63	363749	8.069	ppbv #	24
41) Tetrahydrofuran	6.15	42	5003	0.110	ppbv #	29
44) 2,2,4-Trimethylpentane	7.99	57	15608	0.078	ppbv #	54
52) Tetrachloroethene	11.36	164	1216	0.028	ppbv #	83
53) Toluene	9.94	91	1934695	14.467	ppbv	100
58) Ethyl Benzene	12.86	91	37264	0.193	ppbv	94
59) m/p-Xylene	13.12	91	67547	0.391	ppbv #	100
60) o-Xylene	13.85	91	40598	0.243	ppbv	96
61) Styrene	13.69	104	18007	0.157	ppbv #	44
62) Isopropylbenzene	14.82	105	6162	0.026	ppbv	93
64) n-propylbenzene	15.72	120	1208	0.020	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.93	105	5575	0.029	ppbv #	33
76) 1,4-Dichlorobenzene	17.30	146	6671	0.058	ppbv #	31
79) Naphthalene	22.41	128	12185	0.074	ppbv	95
80) Naphthalene,2-methyl-	25.11	142	11150	0.202	ppbv	95

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Quant Time: Mar 26 05:22:09 2019
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 25 16:04:49 2019
QLast Update : Mon Mar 25 16:04:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-1

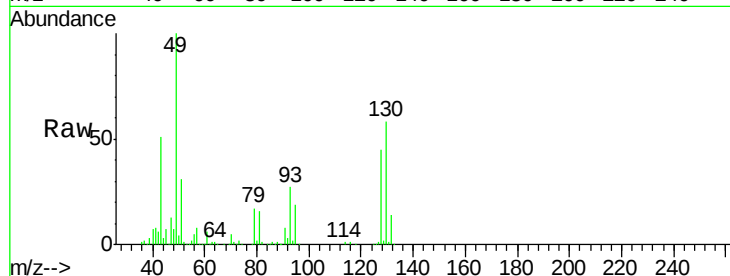
Tgt Ion: 49 Resp: 595072

Ion Ratio Lower Upper

49 100

128 47.7 24.0 72.0

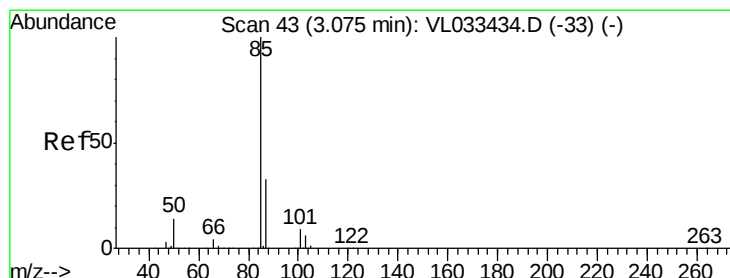
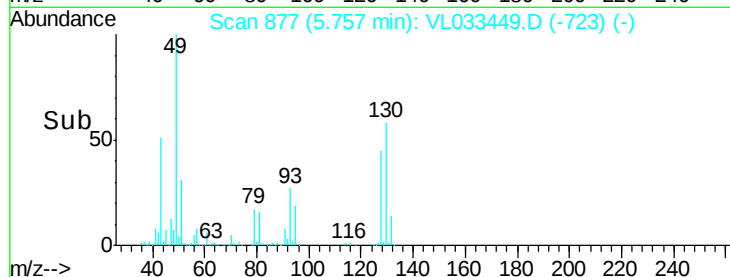
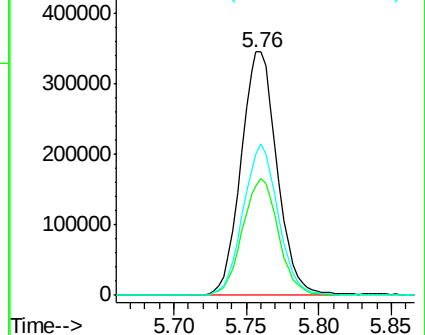
130 60.8 31.2 93.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.032 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.14 min

Lab File: VL033449.D

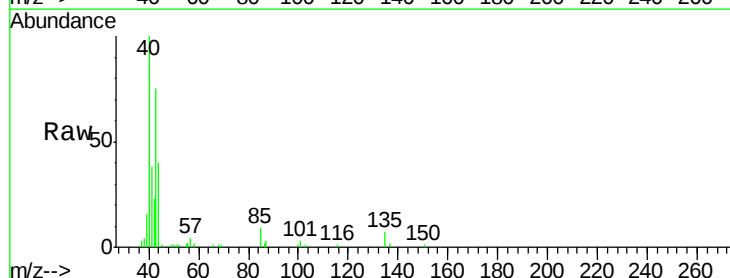
Acq: 25 Mar 2019 23:26

Tgt Ion: 85 Resp: 2742

Ion Ratio Lower Upper

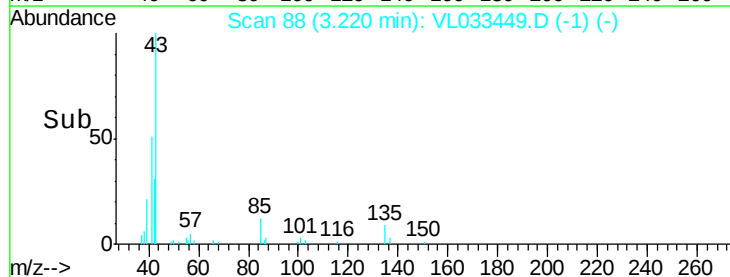
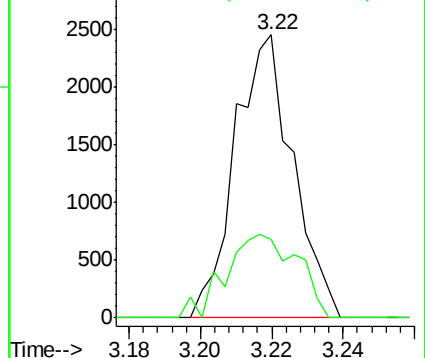
85 100

87 27.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

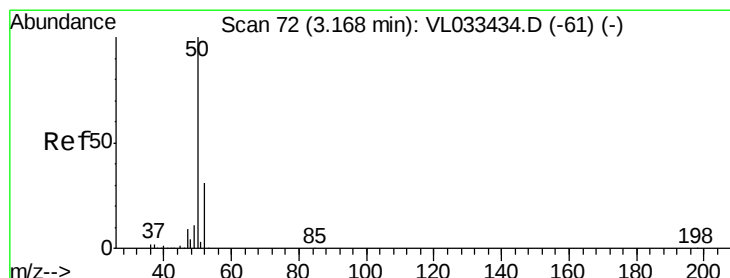
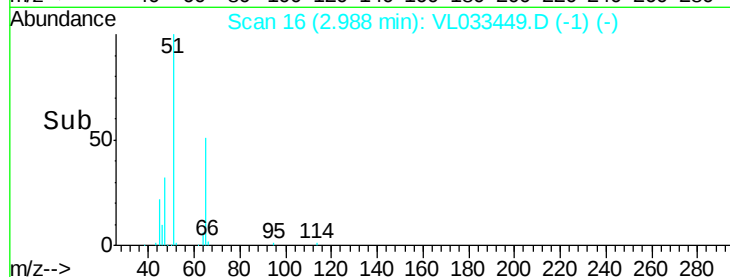
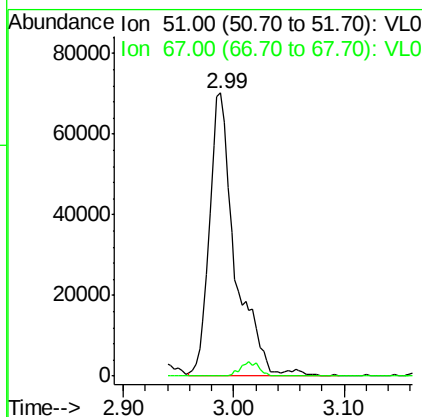
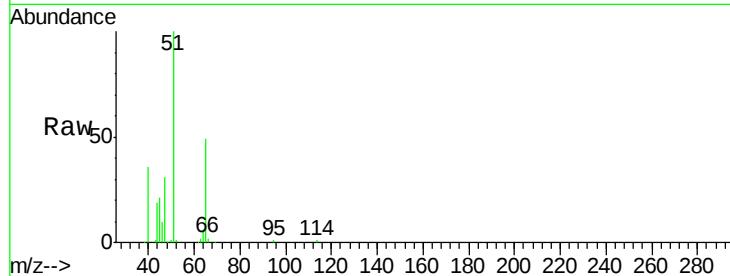




#3
 Chlorodifluoromethane
 Concen: 1.662 ppbv
 RT: 2.99 min Scan# 16
 Delta R.T. -0.03 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

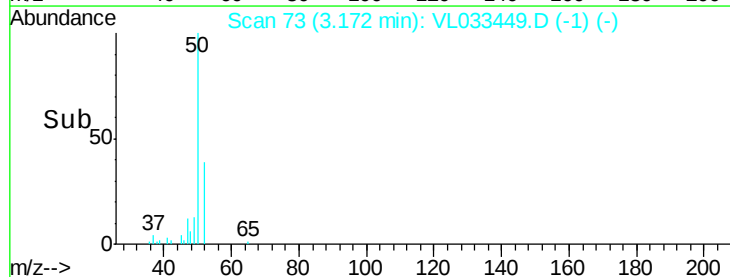
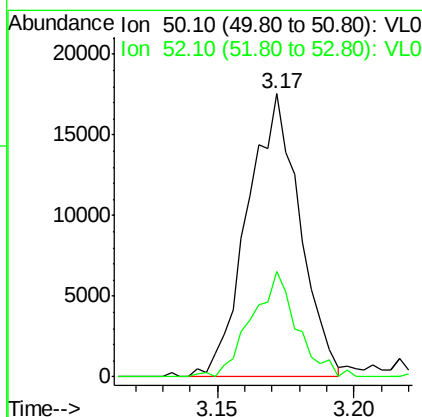
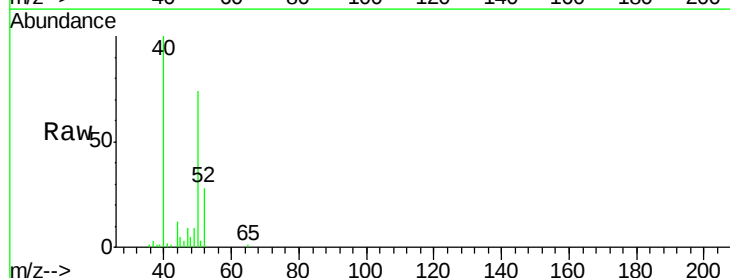
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

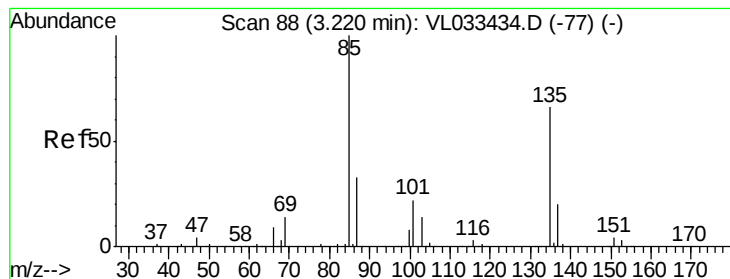
Tgt Ion: 51 Resp: 113878
 Ion Ratio Lower Upper
 51 100
 67 3.6 15.7 23.5#



#4
 Chloromethane
 Concen: 0.643 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

Tgt Ion: 50 Resp: 23323
 Ion Ratio Lower Upper
 50 100
 52 37.4 25.0 37.6





#8

Dichlorotetrafluoroethane

Concen: 0.030 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

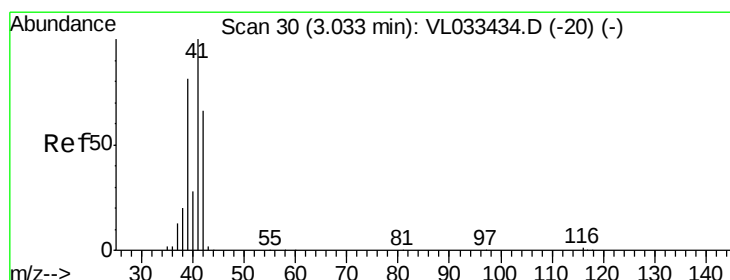
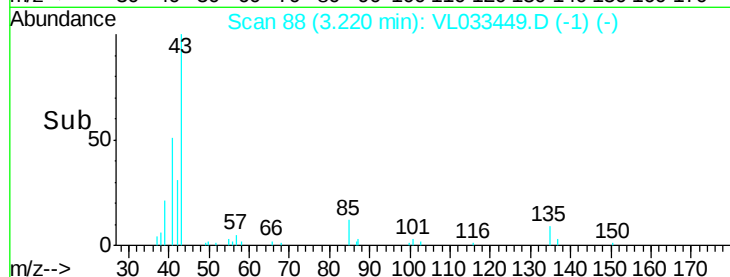
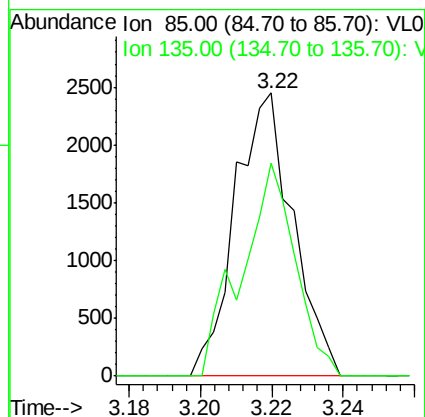
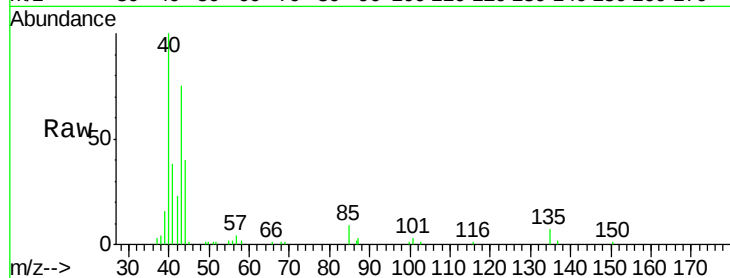
IA-1

Tgt Ion: 85 Resp: 2742

Ion Ratio Lower Upper

85 100

135 70.2 54.0 81.0



#9

Propene

Concen: 3.133 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033449.D

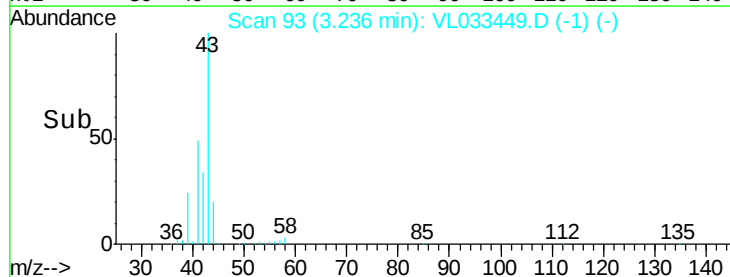
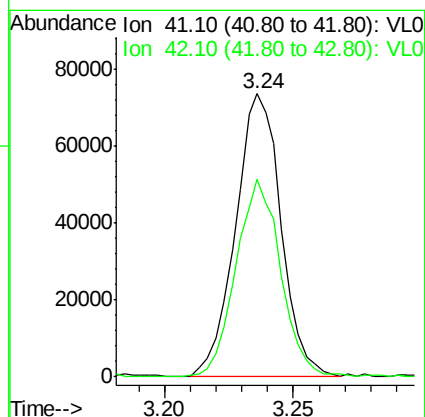
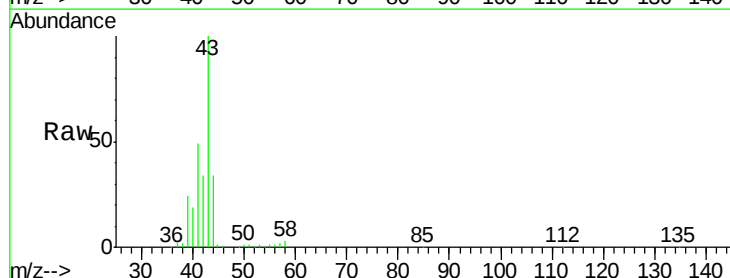
Acq: 25 Mar 2019 23:26

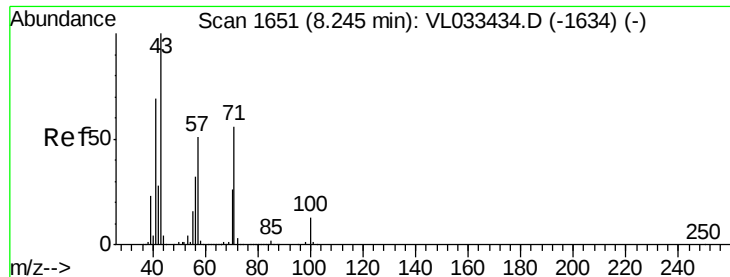
Tgt Ion: 41 Resp: 90124

Ion Ratio Lower Upper

41 100

42 69.3 53.9 80.9





#10

Heptane

Concen: 0.065 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. -0.01 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

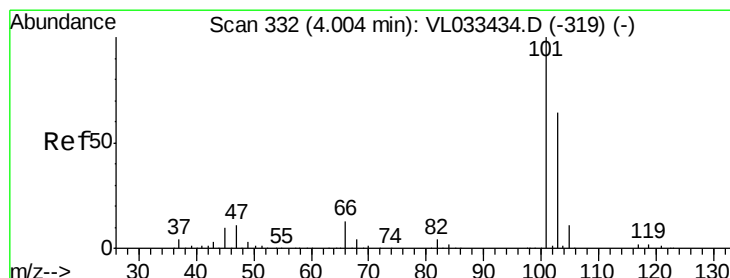
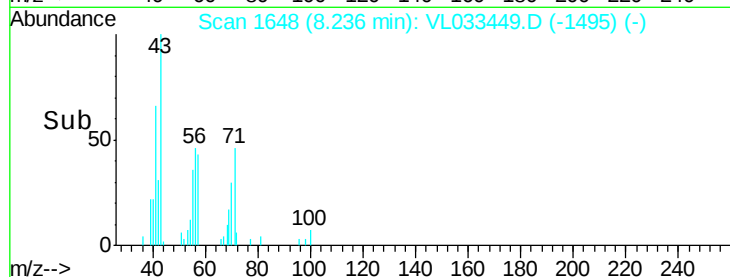
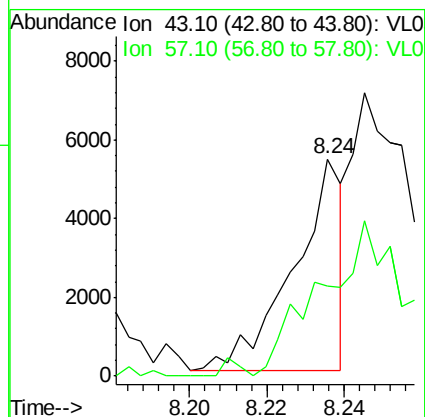
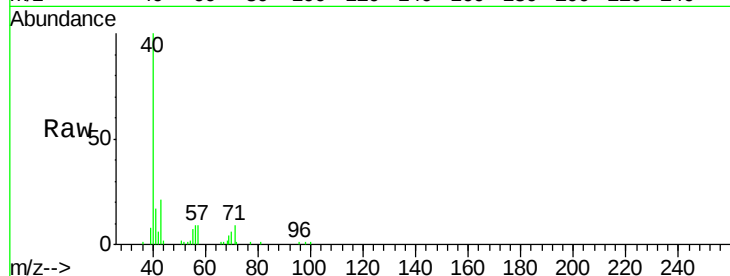
IA-1

Tgt Ion: 43 Resp: 4705

Ion Ratio Lower Upper

43 100

57 0.0 40.6 60.8#



#11

Trichlorofluoromethane

Concen: 0.298 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033449.D

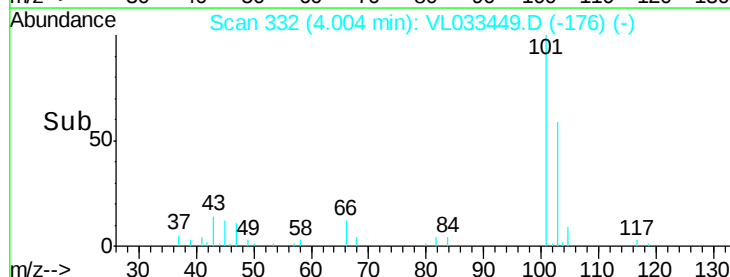
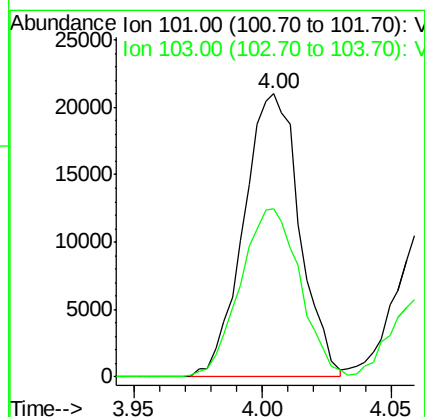
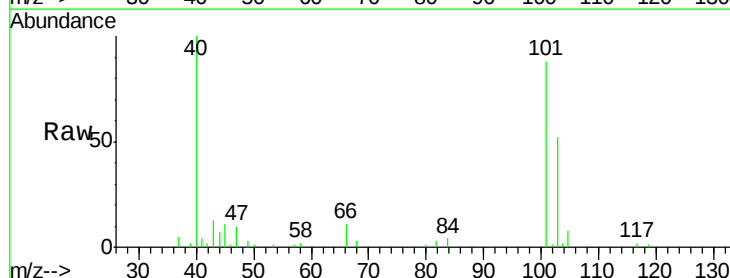
Acq: 25 Mar 2019 23:26

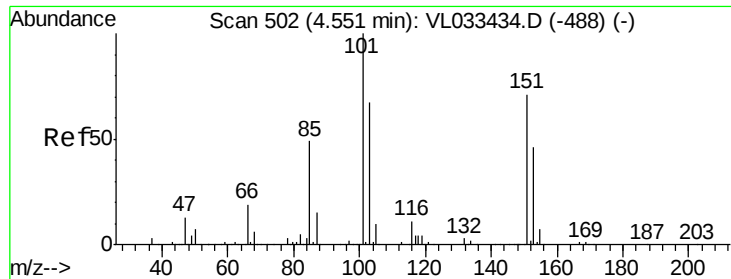
Tgt Ion: 101 Resp: 31877

Ion Ratio Lower Upper

101 100

103 58.7 51.3 76.9

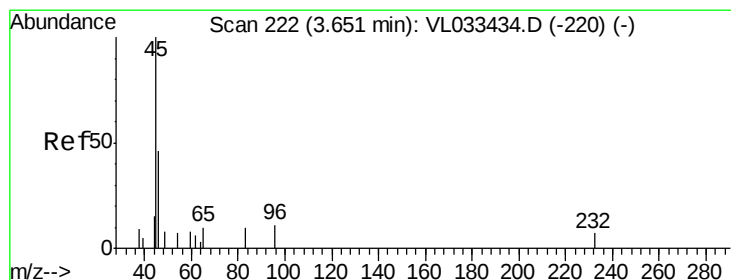
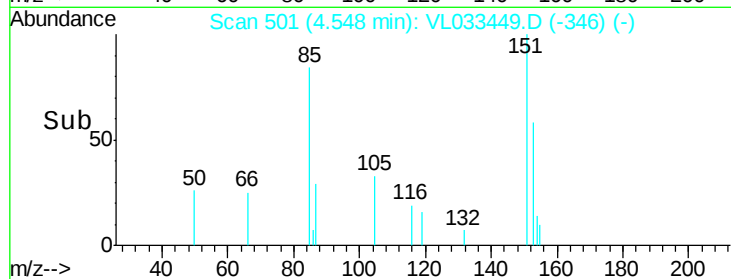
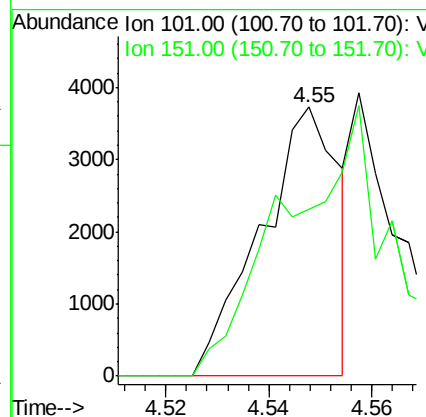
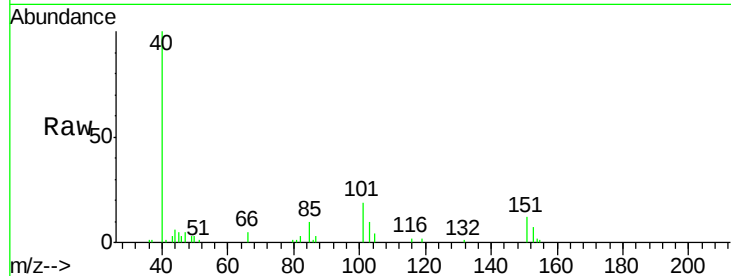




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.054 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

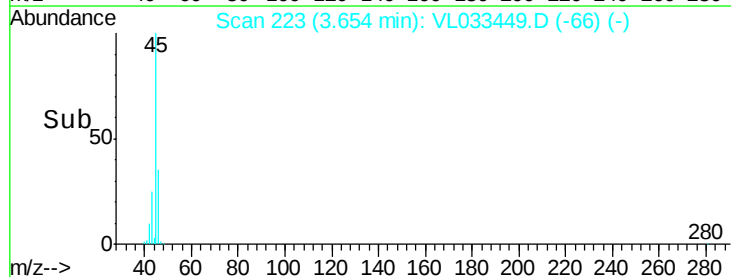
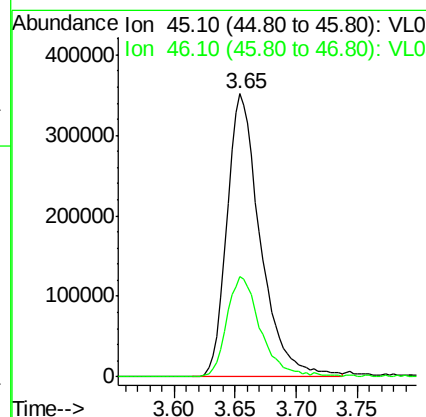
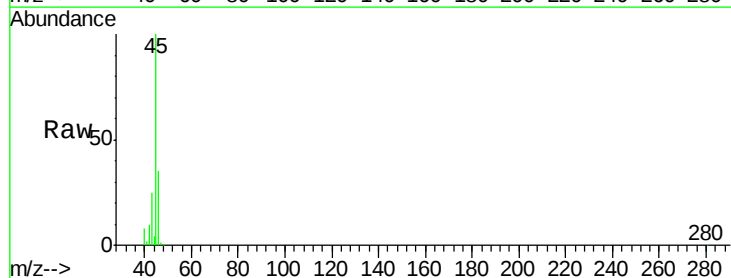
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

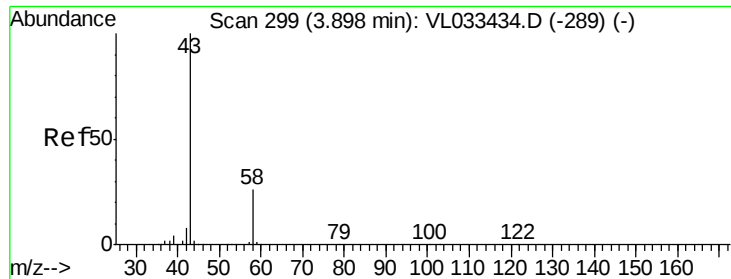
Tgt Ion: 101 Resp: 3915
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.7 86.5#



#13
 Ethanol
 Concen: 99.549 ppbv
 RT: 3.65 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

Tgt Ion: 45 Resp: 675778
 Ion Ratio Lower Upper
 45 100
 46 36.3 25.4 101.8





#15

Acetone

Concen: 12.777 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampled :

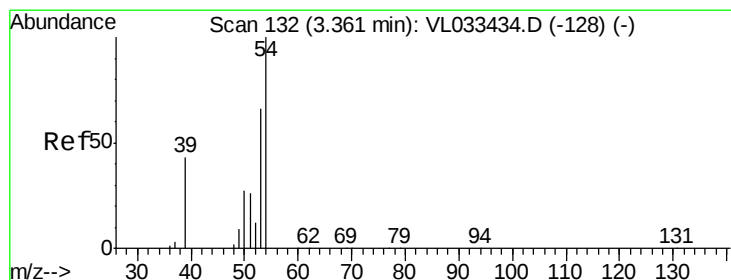
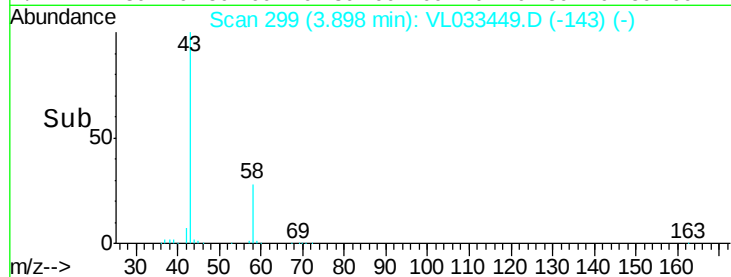
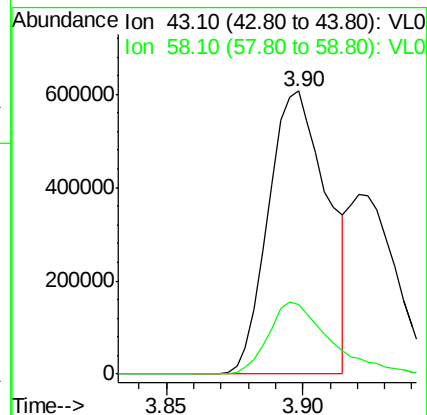
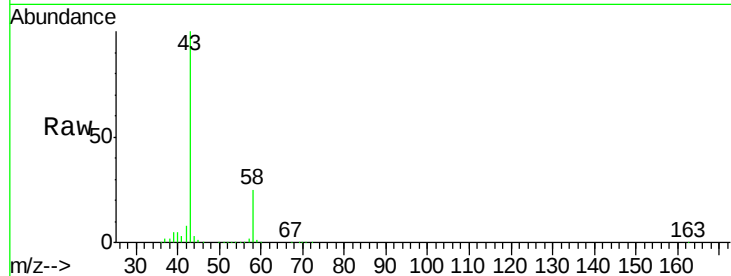
IA-1

Tgt Ion: 43 Resp: 914235

Ion Ratio Lower Upper

43 100

58 26.9 20.5 30.7



#16

1,3-Butadiene

Concen: 0.527 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.02 min

Lab File: VL033449.D

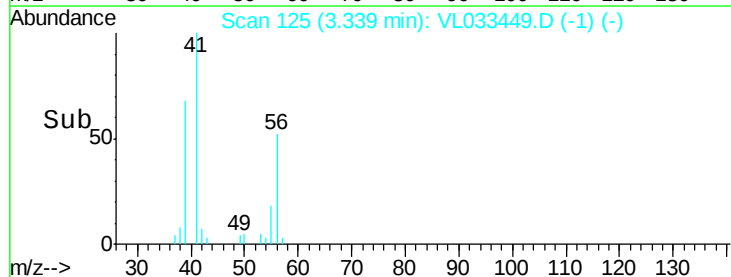
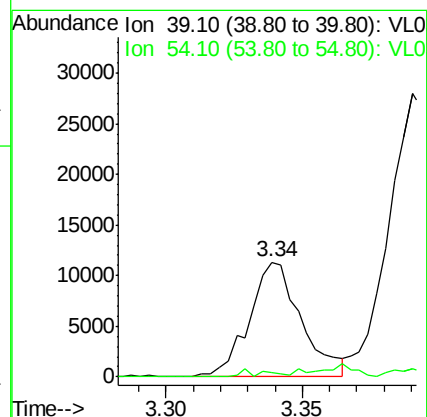
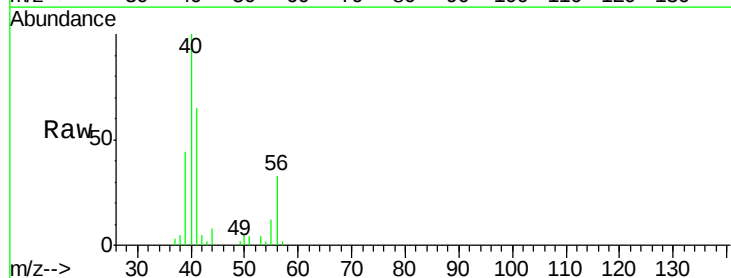
Acq: 25 Mar 2019 23:26

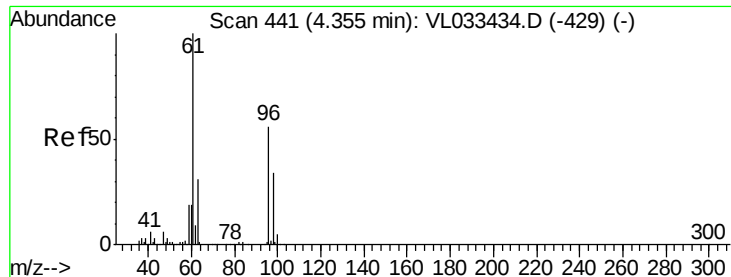
Tgt Ion: 39 Resp: 14962

Ion Ratio Lower Upper

39 100

54 0.0 69.4 104.2#



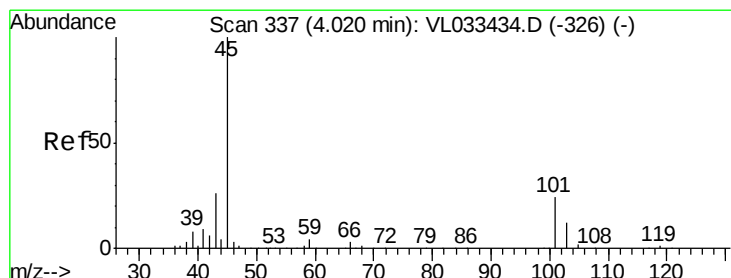
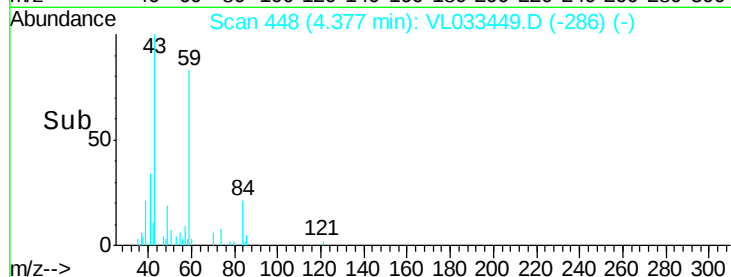
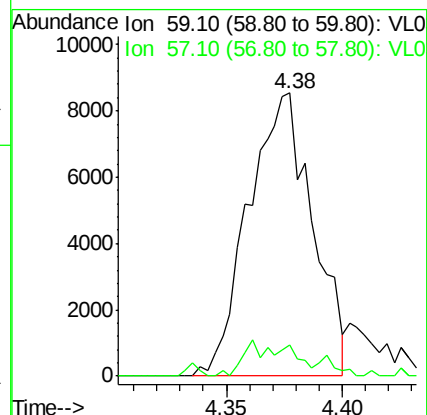
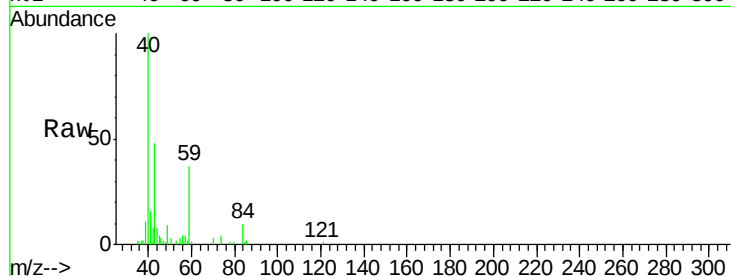


#17

tert-Butyl alcohol
Concen: 1.242 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.02 min
Lab File: VL033449.D
Acq: 25 Mar 2019 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-1

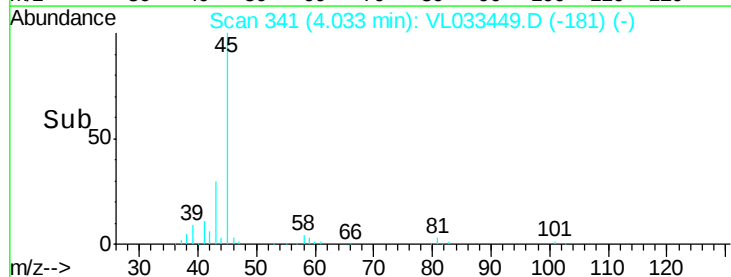
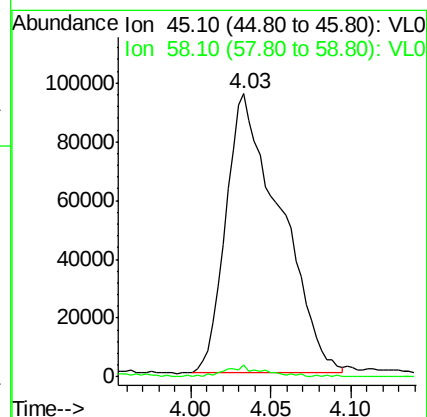
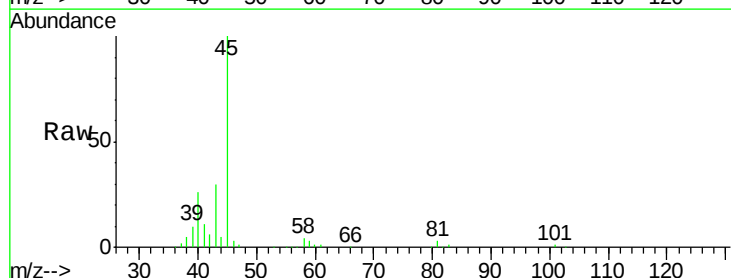
Tgt Ion: 59 Resp: 16334
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

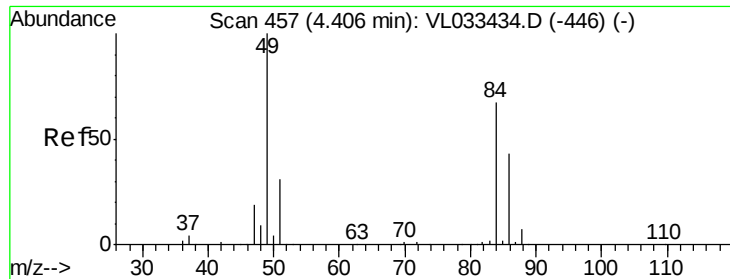


#19

Isopropyl Alcohol
Concen: 4.897 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033449.D
Acq: 25 Mar 2019 23:26

Tgt Ion: 45 Resp: 221637
Ion Ratio Lower Upper
45 100
58 111.0 1.4 2.2#

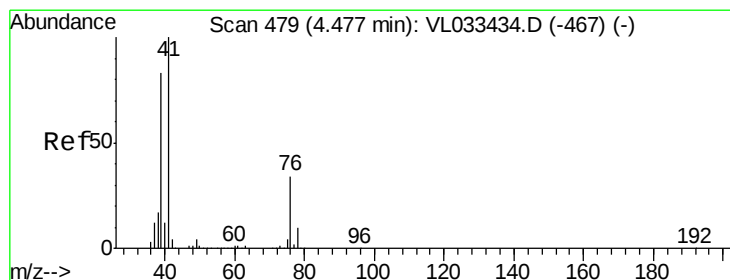
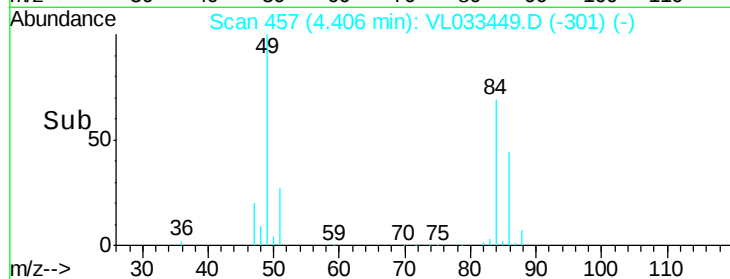
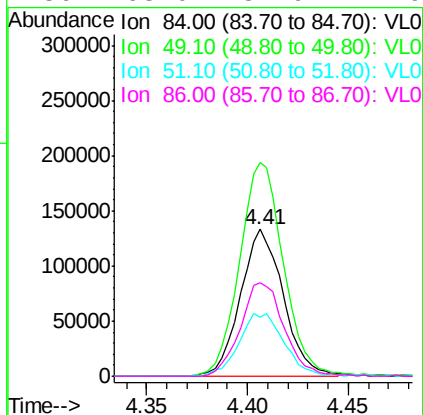
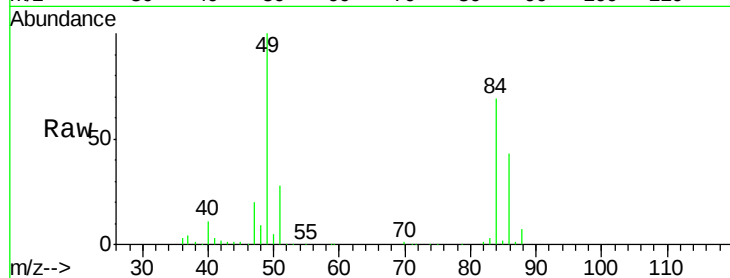




#20
Methylene Chloride
Concen: 6.540 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033449.D
Acq: 25 Mar 2019 23:26

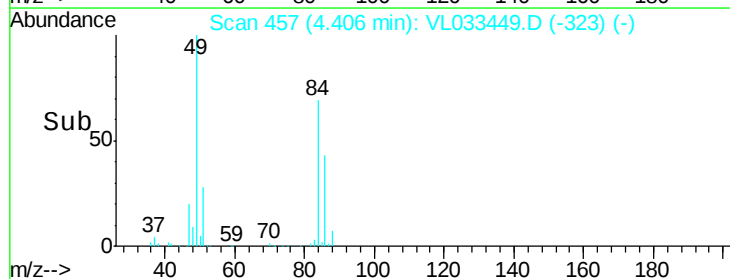
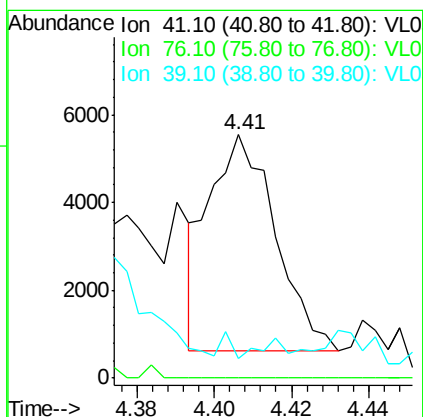
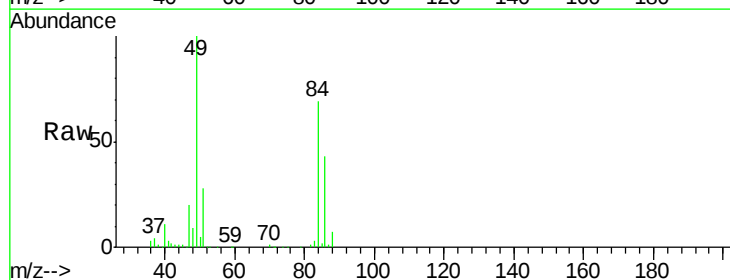
Instrument :
MSVOA_L
ClientSampled :
IA-1

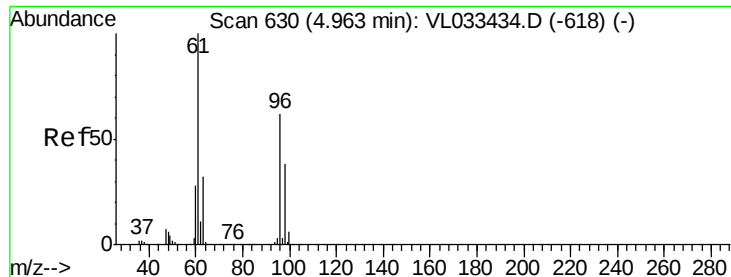
Tgt Ion:	84	Resp:	198636
Ion	Ratio	Lower	Upper
84	100		
49	145.1	120.0	180.0
51	39.9	36.7	55.1
86	63.0	51.9	77.9



#21
Allyl Chloride
Concen: 0.129 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.07 min
Lab File: VL033449.D
Acq: 25 Mar 2019 23:26

Tgt Ion:	41	Resp:	5813
Ion	Ratio	Lower	Upper
41	100		
76	1787.0	25.4	38.2#
39	0.0	65.3	97.9#





#22

trans-1,2-Dichloroethene

Concen: 0.046 ppbv

RT: 4.96 min Scan# 628

Delta R.T. -0.01 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-1

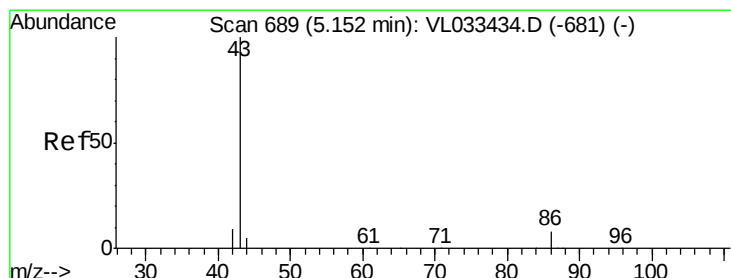
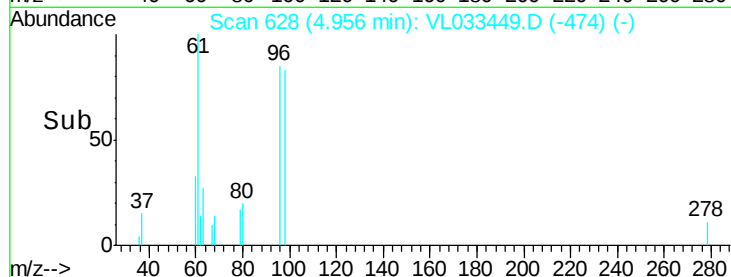
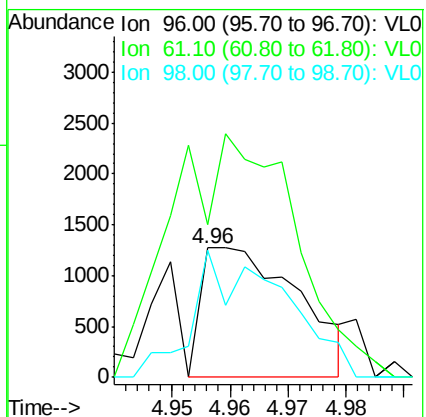
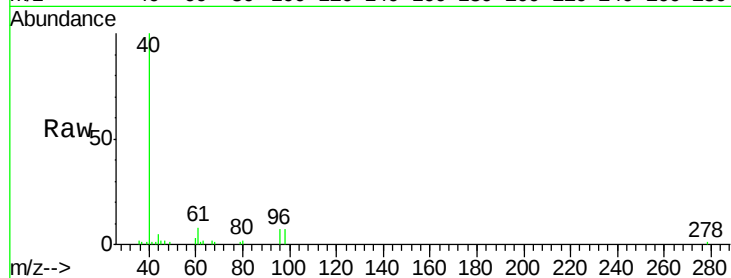
Tgt Ion: 96 Resp: 1476

Ion Ratio Lower Upper

96 100

61 81.1 128.9 193.3#

98 73.7 49.5 74.3



#23

Vinyl Acetate

Concen: 0.121 ppbv

RT: 5.15 min Scan# 689

Delta R.T. 0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Tgt Ion: 43 Resp: 12367

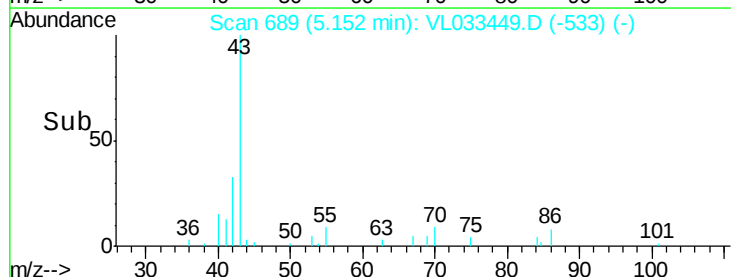
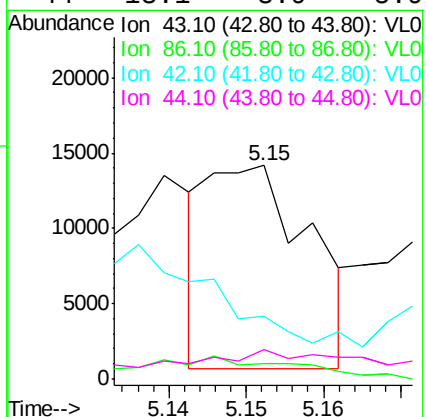
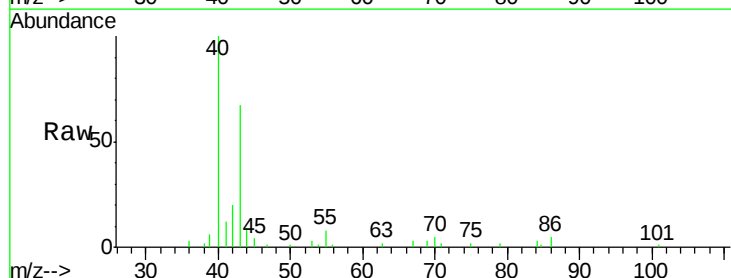
Ion Ratio Lower Upper

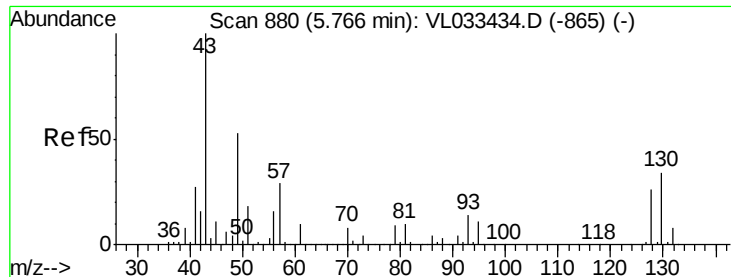
43 100

86 7.0 5.6 8.4

42 15.5 8.0 12.0#

44 13.1 3.9 5.9#





#25

Ethyl Acetate

Concen: 3.560 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tgt Ion: 43 Resp: 472658

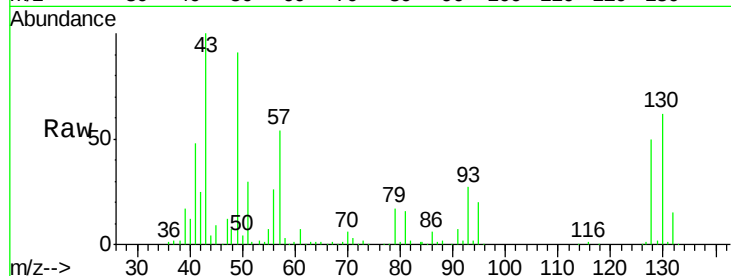
Ion Ratio Lower Upper

43 100

45 9.3 7.8 11.6

61 7.9 7.3 10.9

70 6.1 5.6 8.4

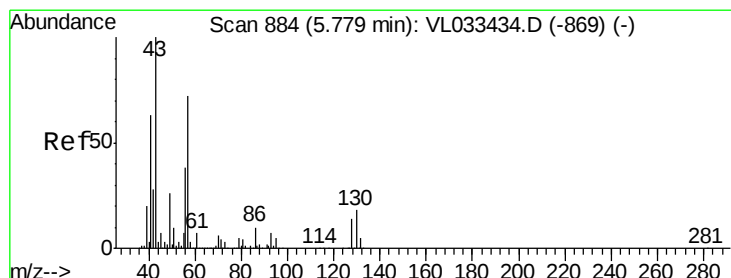
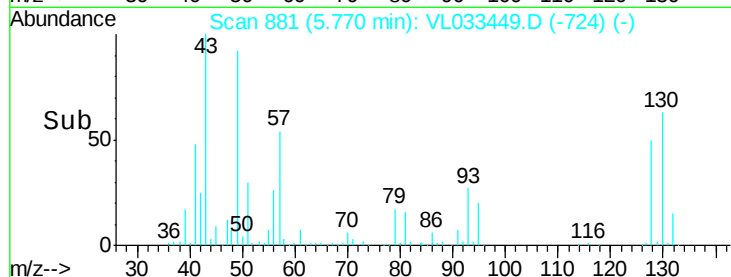
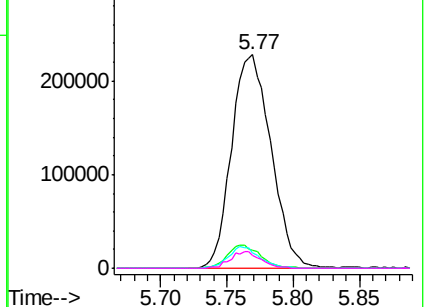


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 4.390 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Tgt Ion: 57 Resp: 259143

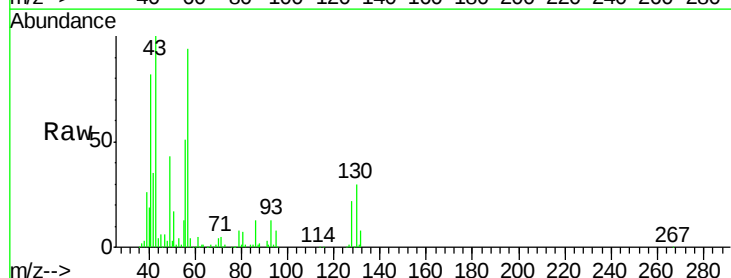
Ion Ratio Lower Upper

57 100

41 94.0 70.7 106.1

43 183.5 182.6 274.0

56 53.4 42.0 63.0

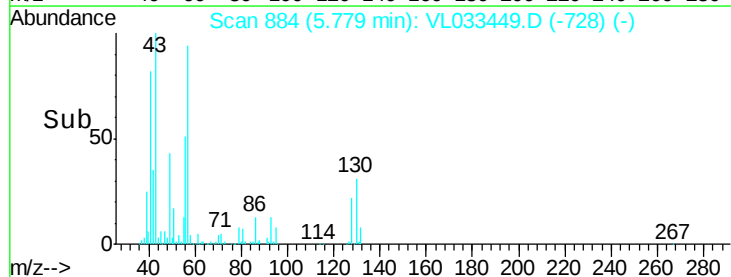
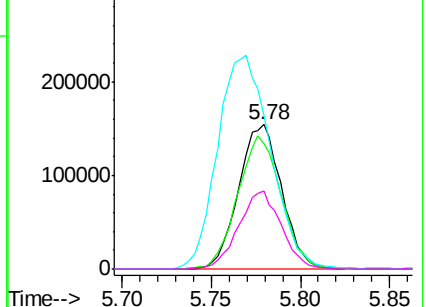


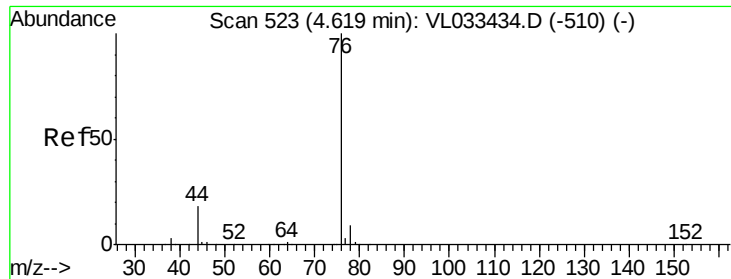
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 1.478 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-1

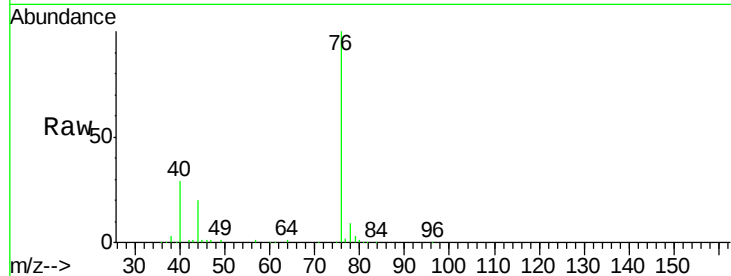
Tgt Ion: 76 Resp: 103736

Ion Ratio Lower Upper

76 100

44 23.0 14.8 22.2#

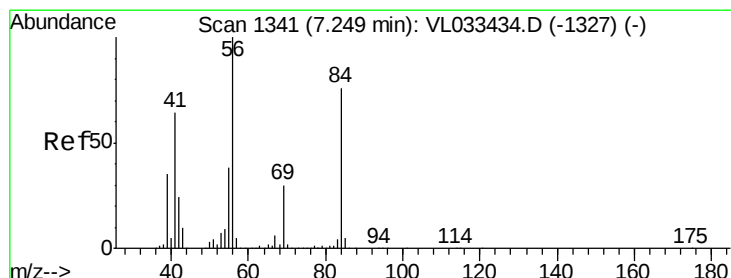
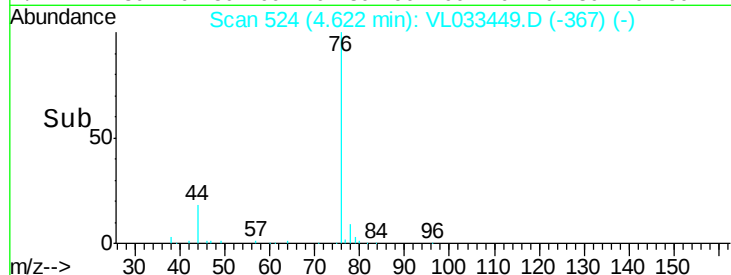
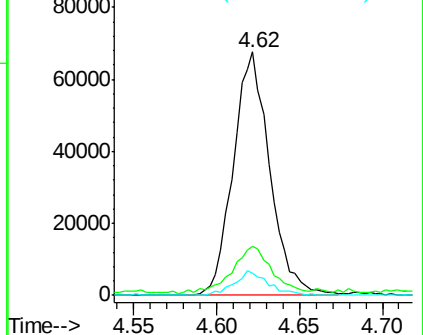
78 9.4 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#30

Cyclohexane

Concen: 0.217 ppbv

RT: 7.25 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

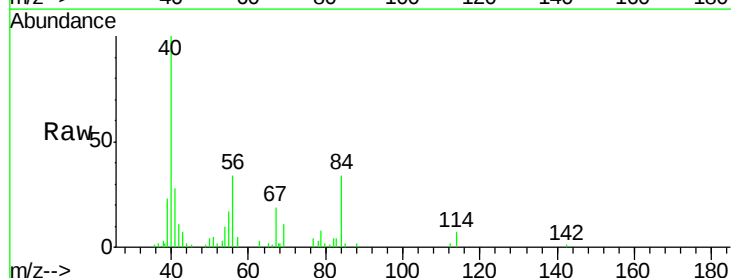
Tgt Ion: 84 Resp: 10153

Ion Ratio Lower Upper

84 100

56 169.2 109.7 164.5#

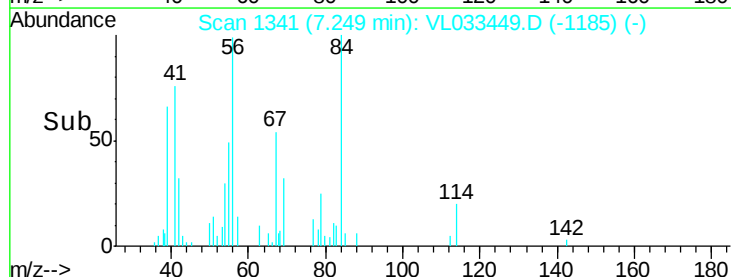
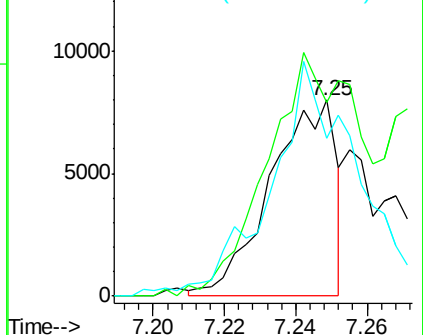
41 158.5 68.2 102.2#

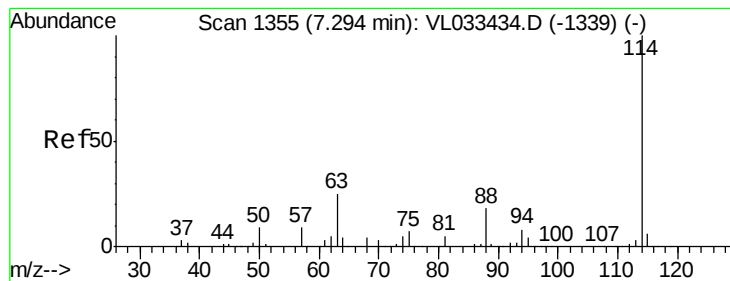


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-1

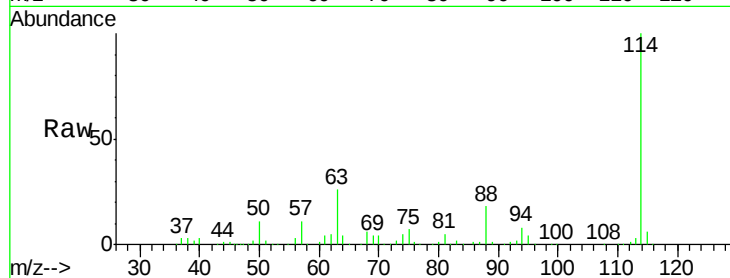
Tgt Ion:114 Resp: 1371568

Ion Ratio Lower Upper

114 100

63 26.9 21.5 32.3

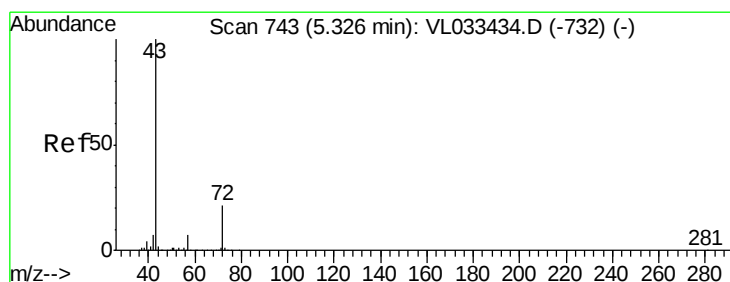
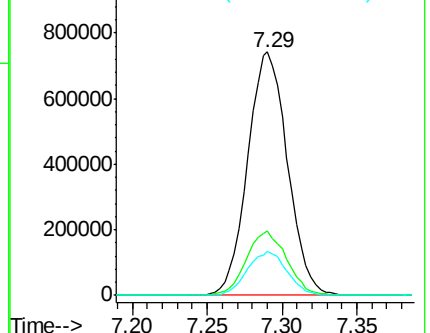
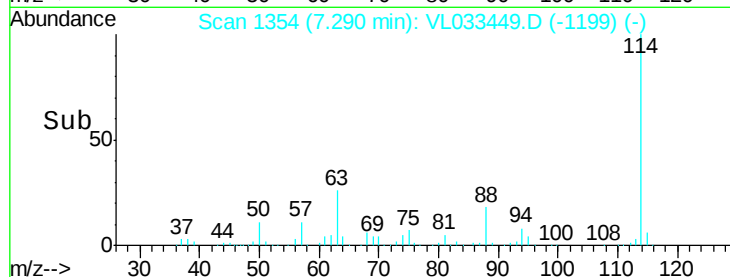
88 18.0 14.5 21.7



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



#34

2-Butanone

Concen: 1.321 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033449.D

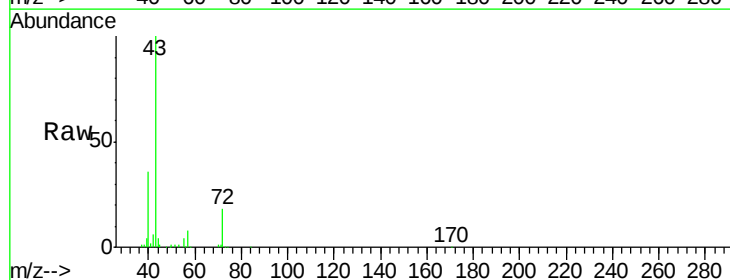
Acq: 25 Mar 2019 23:26

Tgt Ion: 43 Resp: 108848

Ion Ratio Lower Upper

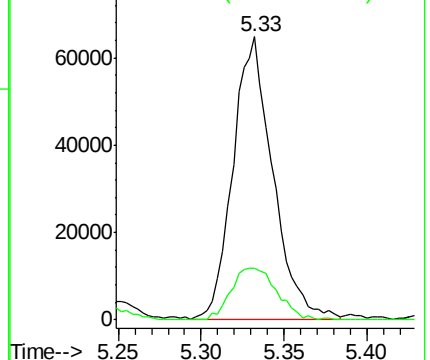
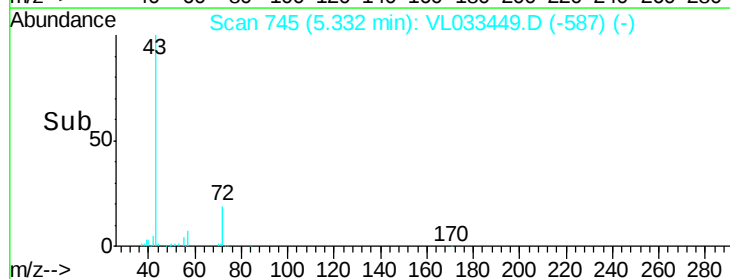
43 100

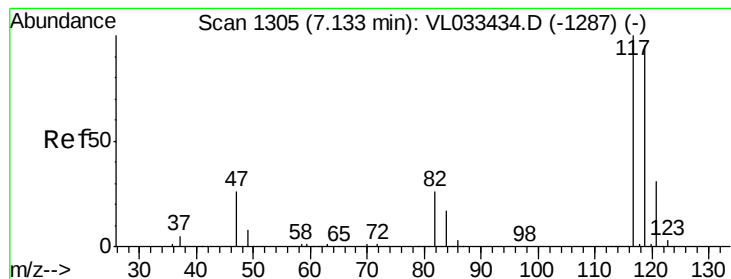
72 21.1 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.078 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-1

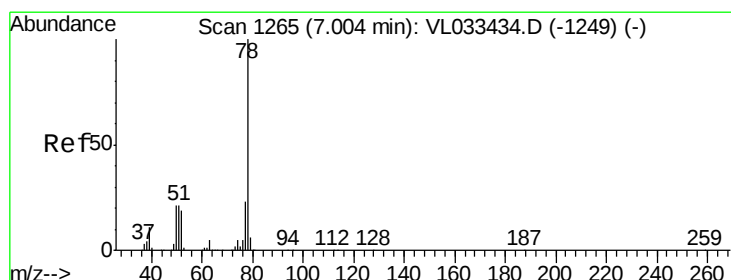
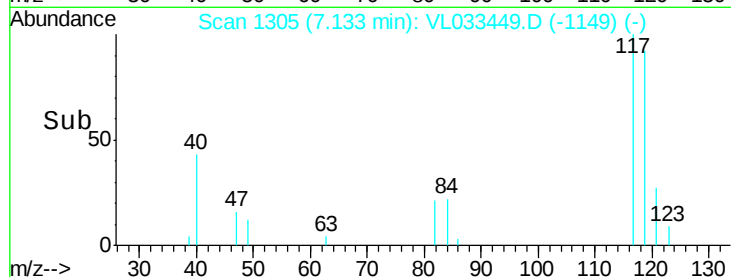
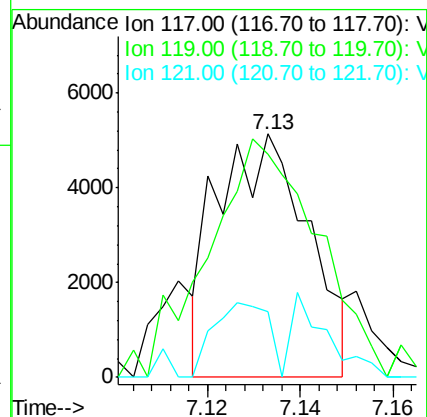
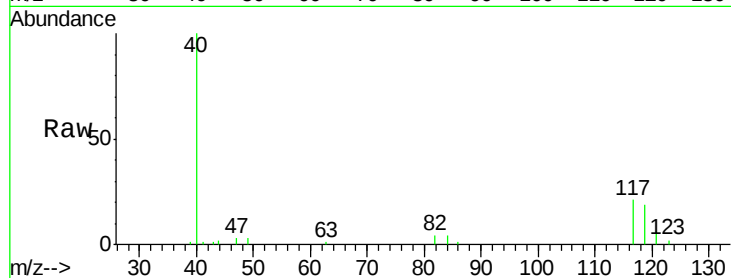
Tgt Ion: 117 Resp: 6988

Ion Ratio Lower Upper

117 100

119 89.3 75.8 113.8

121 39.8 24.7 37.1#



#36

Benzene

Concen: 0.159 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

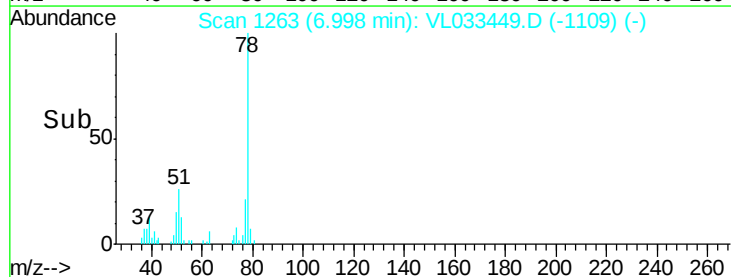
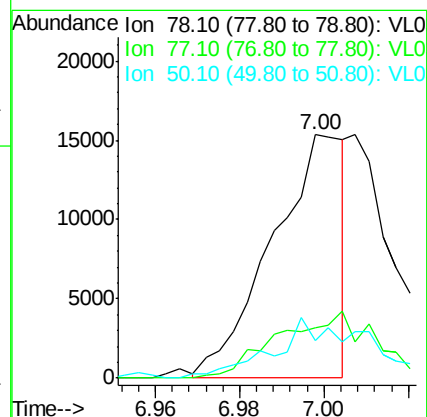
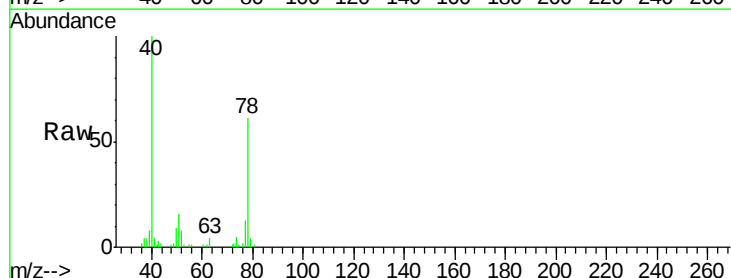
Tgt Ion: 78 Resp: 18253

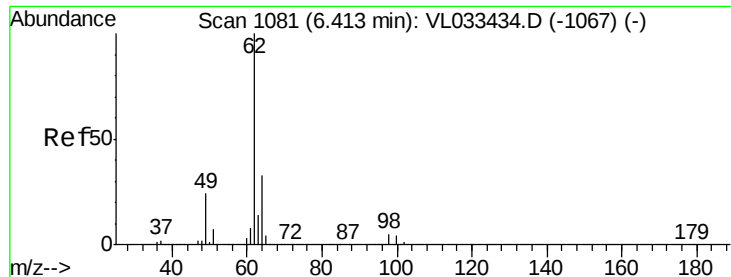
Ion Ratio Lower Upper

78 100

77 19.0 18.1 27.1

50 13.6 16.7 25.1#

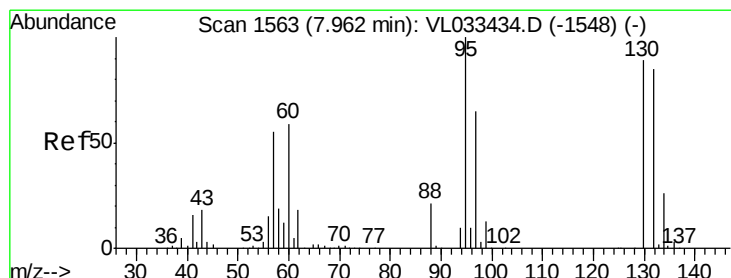
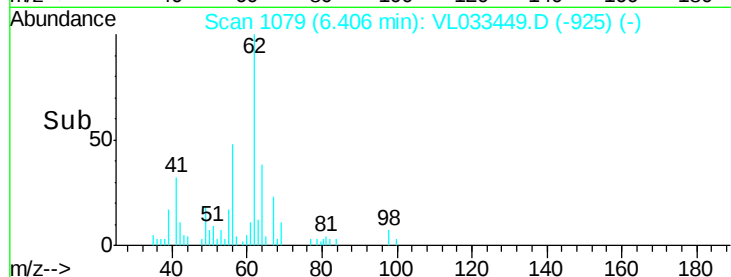
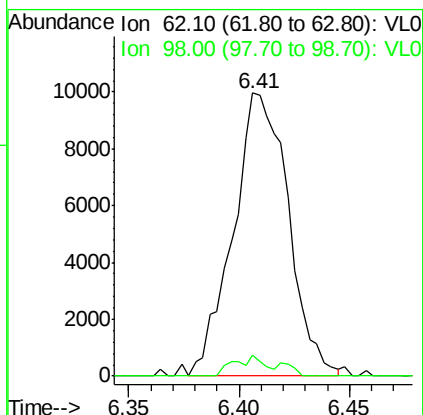
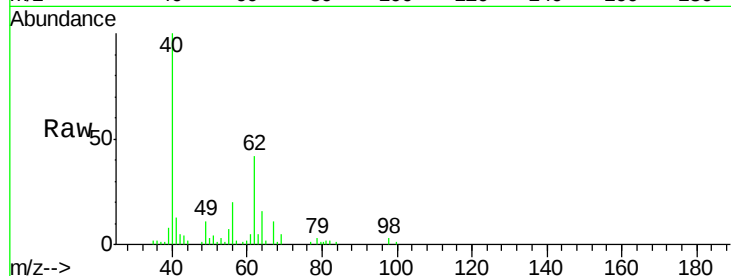




#37
 1,2-Dichloroethane
 Concen: 0.225 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

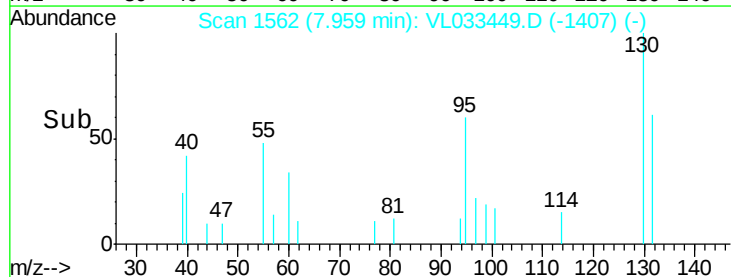
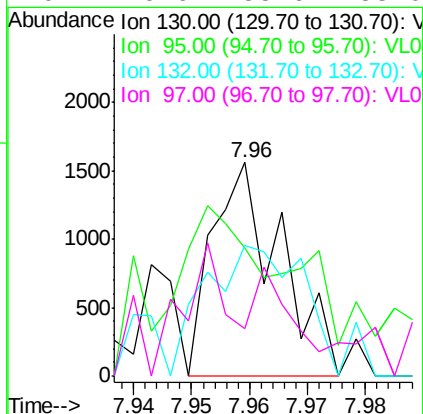
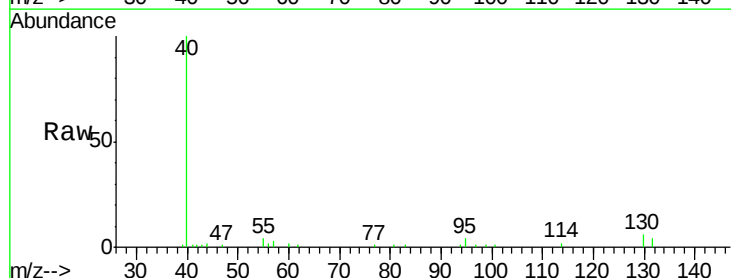
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

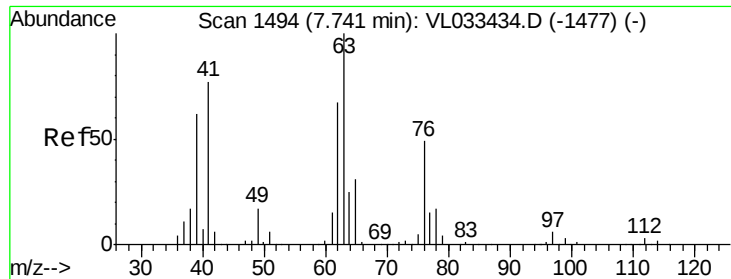
Tgt Ion: 62 Resp: 17351
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.4 6.6



#38
 Trichloroethene
 Concen: 0.029 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

Tgt Ion: 130 Resp: 1265
 Ion Ratio Lower Upper
 130 100
 95 45.3 89.8 134.8#
 132 60.9 76.6 115.0#
 97 6.6 58.6 88.0#

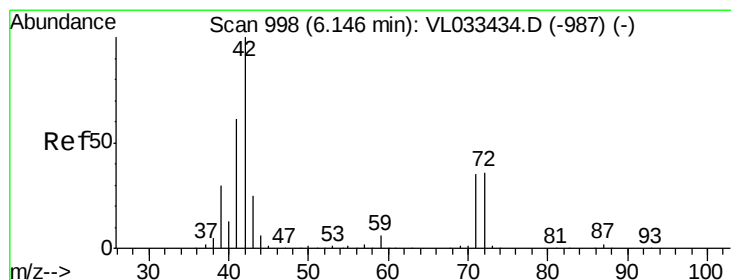
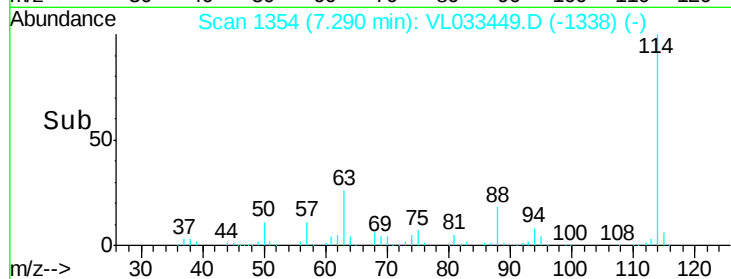
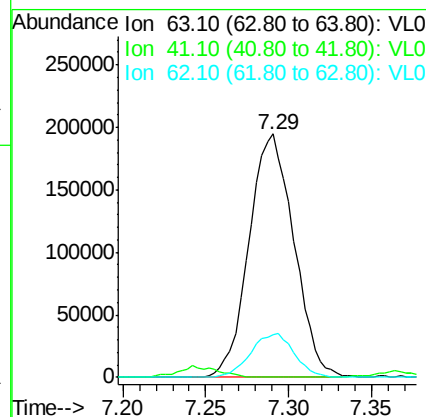
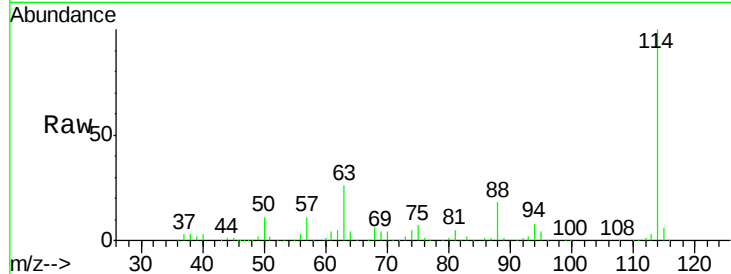




#39
 1,2-Dichloropropane
 Concen: 8.069 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.45 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

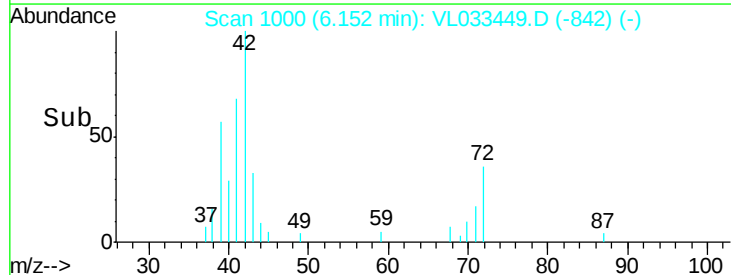
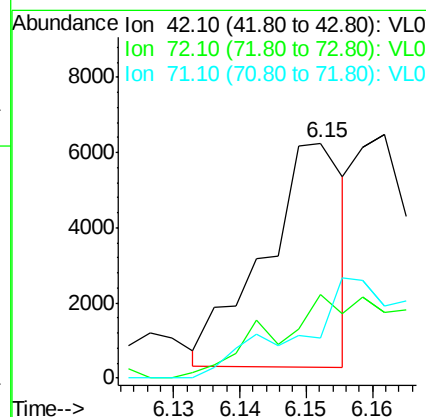
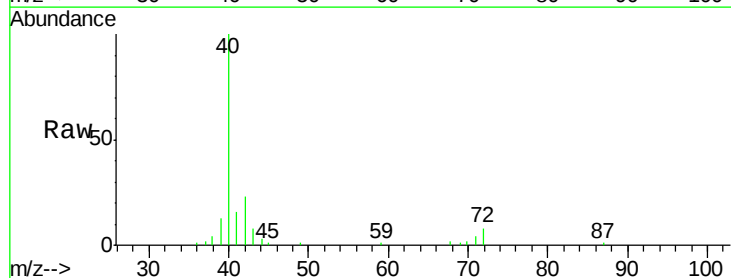
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

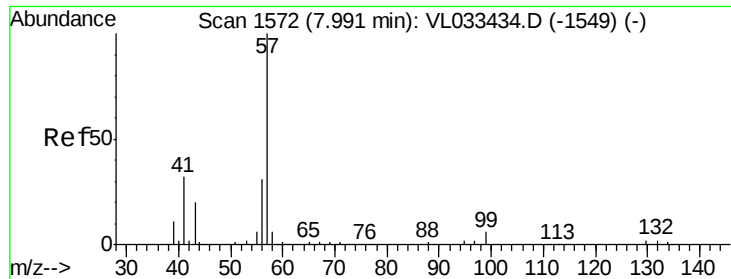
Tgt Ion: 63 Resp: 363749
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 17.7 54.0 81.0#



#41
 Tetrahydrofuran
 Concen: 0.110 ppbv
 RT: 6.15 min Scan# 1000
 Delta R.T. 0.01 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

Tgt Ion: 42 Resp: 5003
 Ion Ratio Lower Upper
 42 100
 72 80.0 30.2 45.2#
 71 79.1 29.4 44.2#

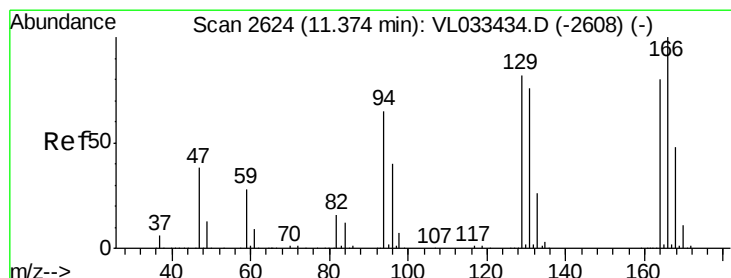
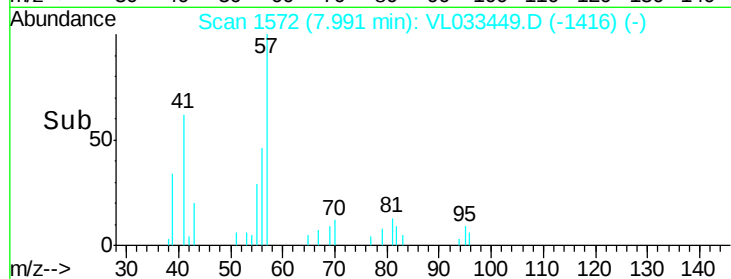
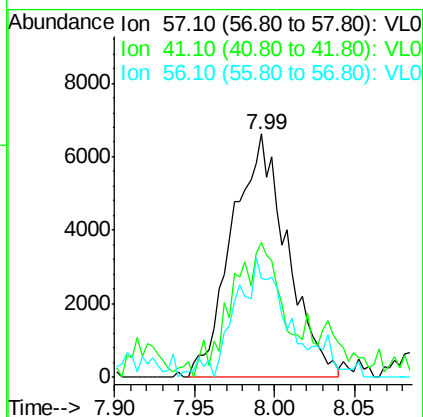
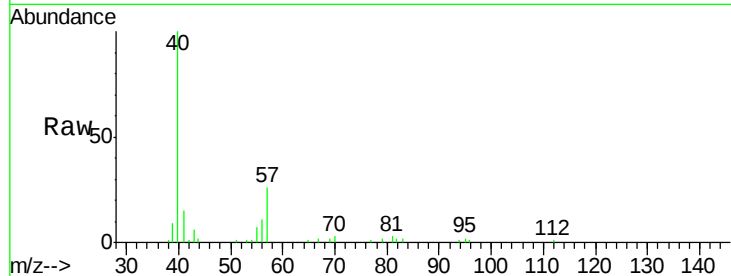




#44
 2,2,4-Trimethylpentane
 Concen: 0.078 ppbv
 RT: 7.99 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

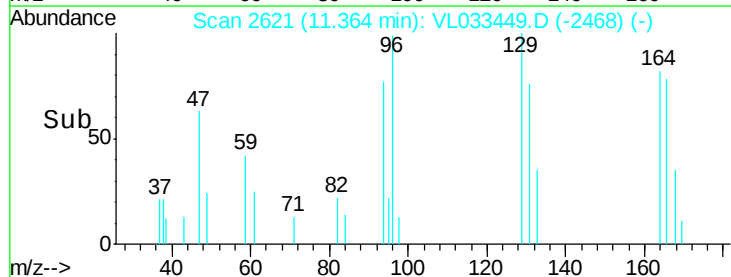
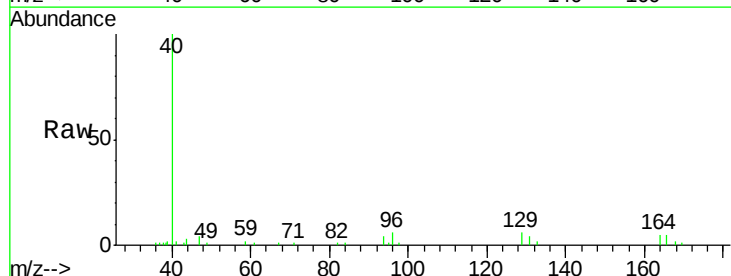
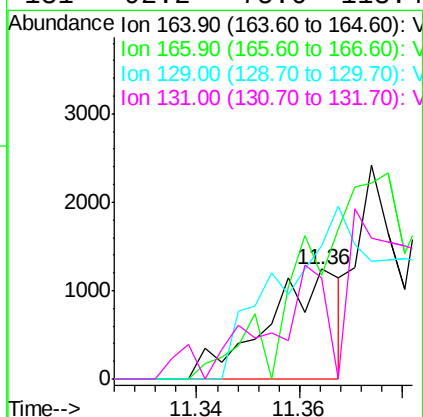
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

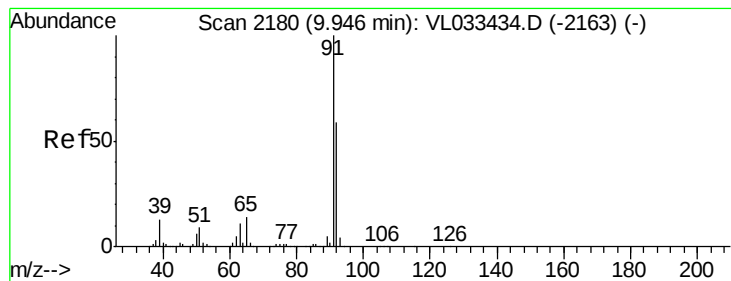
Tgt Ion: 57 Resp: 15608
 Ion Ratio Lower Upper
 57 100
 41 65.0 26.0 39.0#
 56 49.6 24.6 37.0#



#52
 Tetrachloroethene
 Concen: 0.028 ppbv
 RT: 11.36 min Scan# 2621
 Delta R.T. -0.01 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

Tgt Ion: 164 Resp: 1216
 Ion Ratio Lower Upper
 164 100
 166 94.9 99.5 149.3#
 129 121.7 81.4 122.2
 131 92.2 75.6 113.4





#53

Toluene

Concen: 14.467 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampled :

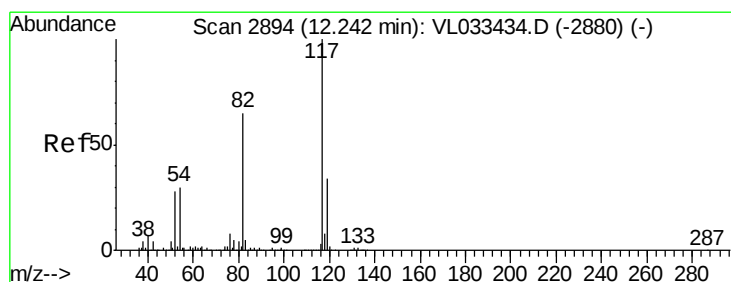
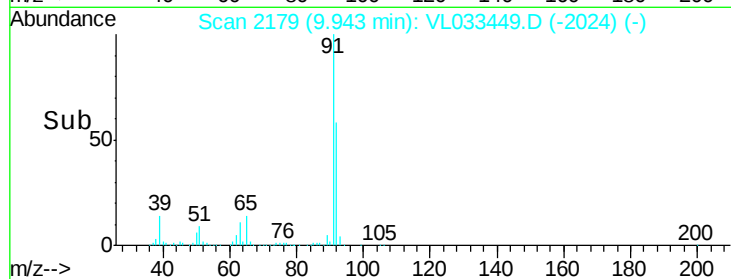
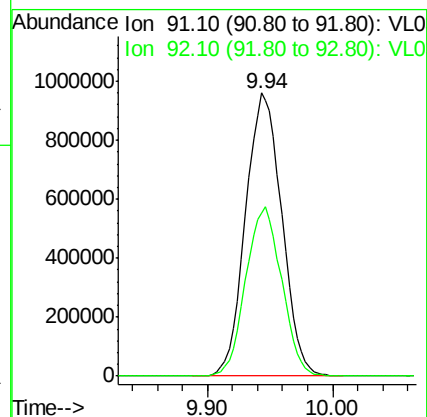
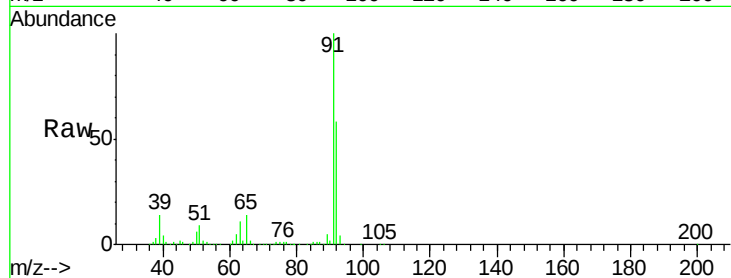
IA-1

Tgt Ion: 91 Resp: 1934695

Ion Ratio Lower Upper

91 100

92 59.3 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

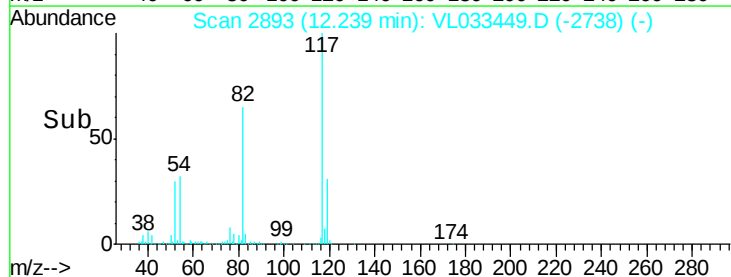
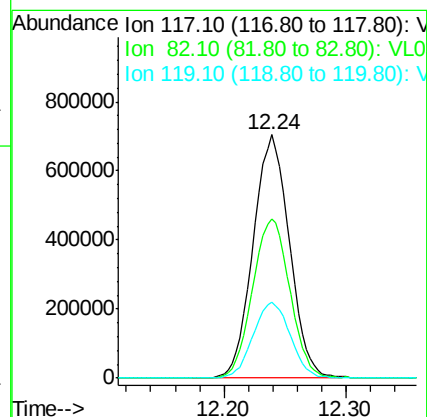
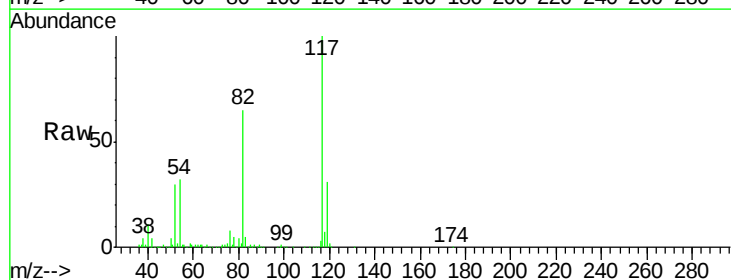
Tgt Ion: 117 Resp: 1447256

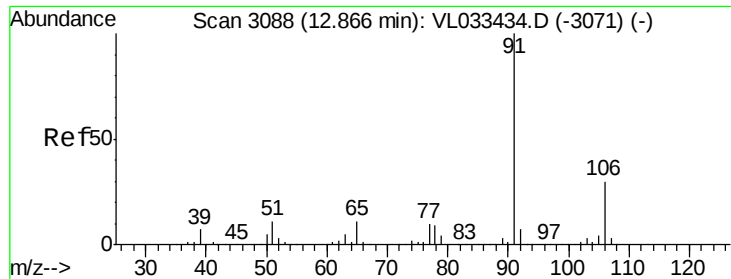
Ion Ratio Lower Upper

117 100

82 67.5 51.5 77.3

119 32.2 25.5 38.3





#58

Ethyl Benzene

Concen: 0.193 ppbv

RT: 12.86 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

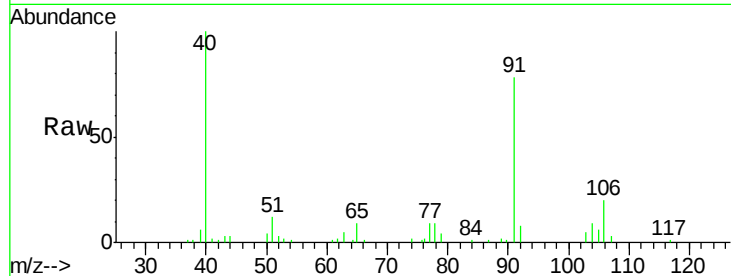
IA-1

Tgt Ion: 91 Resp: 37264

Ion Ratio Lower Upper

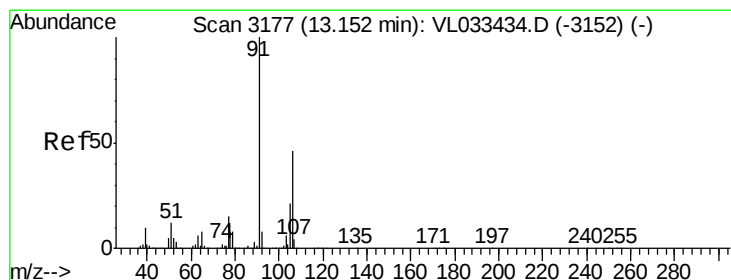
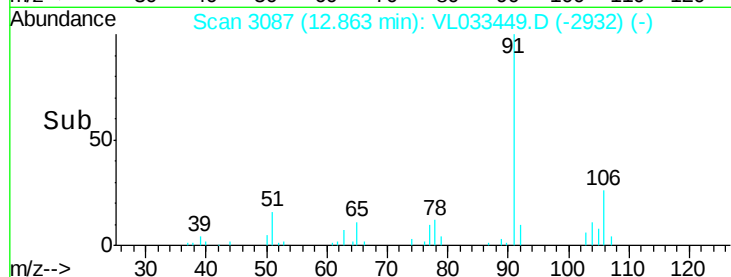
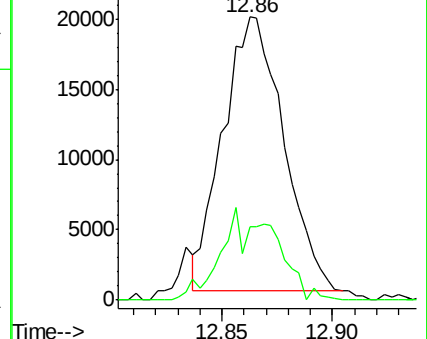
91 100

106 26.6 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.391 ppbv

RT: 13.12 min Scan# 3167

Delta R.T. -0.03 min

Lab File: VL033449.D

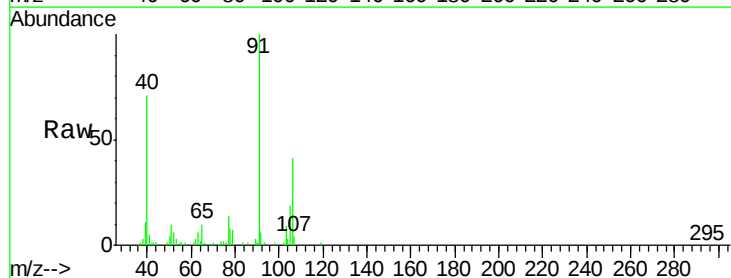
Acq: 25 Mar 2019 23:26

Tgt Ion: 91 Resp: 67547

Ion Ratio Lower Upper

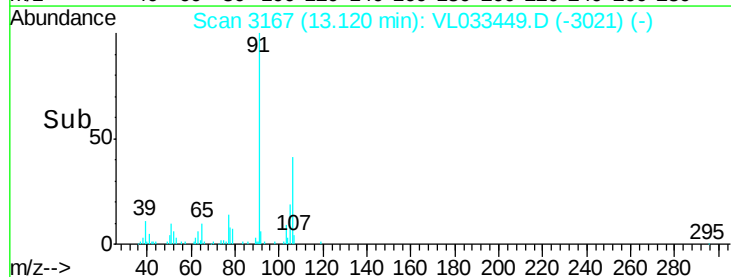
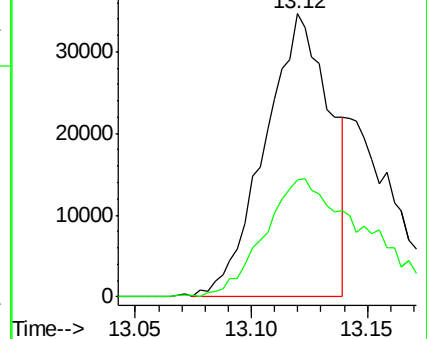
91 100

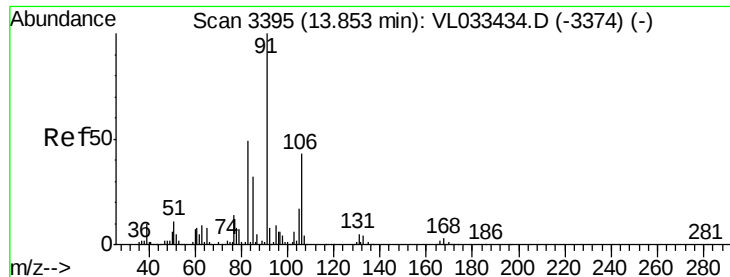
106 64.6 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 0.243 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

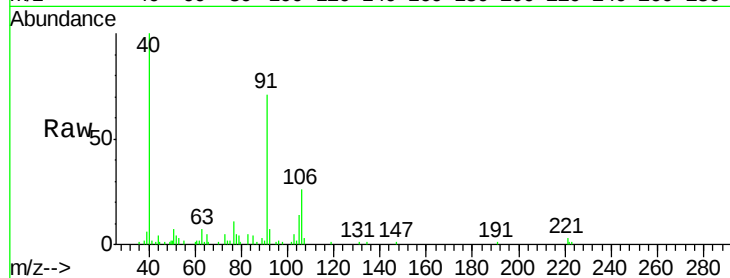
IA-1

Tgt Ion: 91 Resp: 40598

Ion Ratio Lower Upper

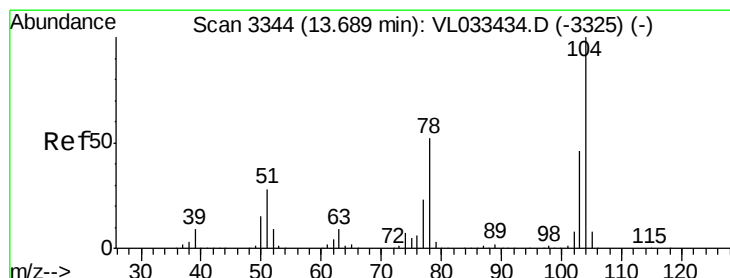
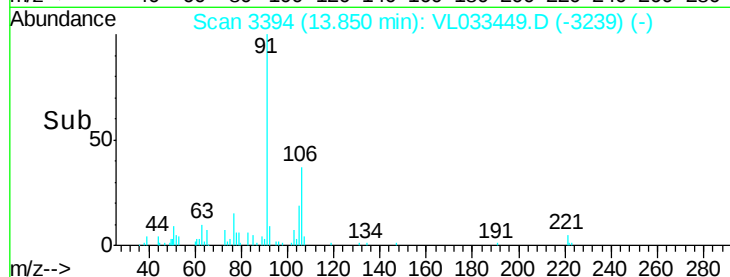
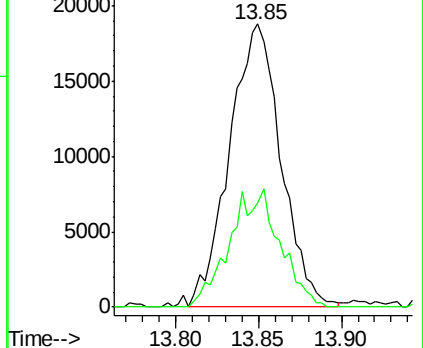
91 100

106 40.5 21.4 64.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): VL0



#61

Styrene

Concen: 0.157 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

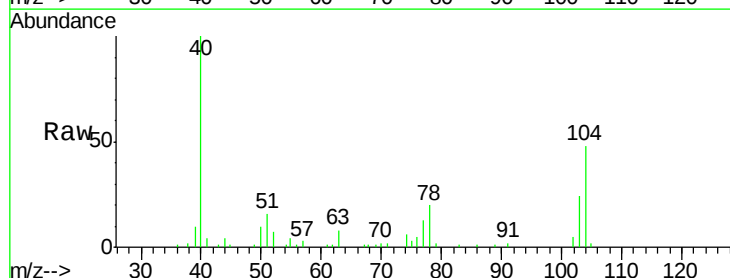
Tgt Ion: 104 Resp: 18007

Ion Ratio Lower Upper

104 100

78 93.3 43.2 64.8#

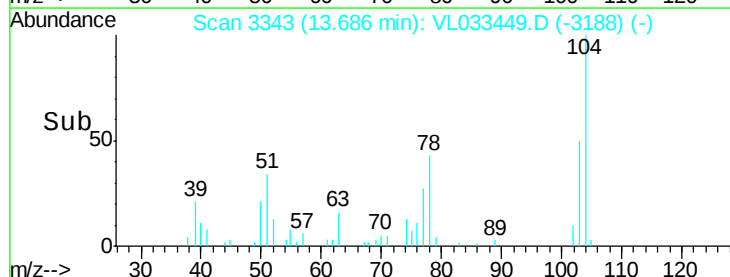
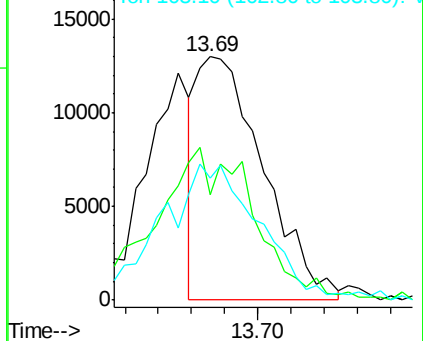
103 85.7 37.8 56.8#

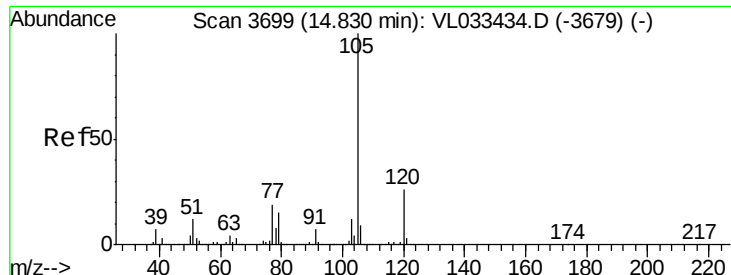


Abundance Ion 104.10 (103.80 to 104.80): VL0

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): VL0





#62

Isopropylbenzene

Concen: 0.026 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

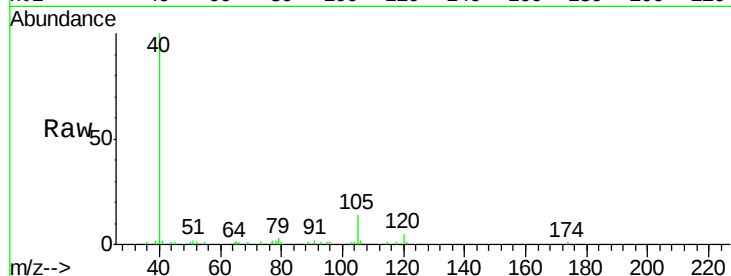
IA-1

Tgt Ion:105 Resp: 6162

Ion Ratio Lower Upper

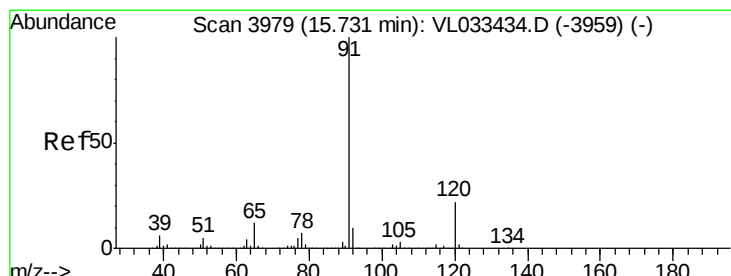
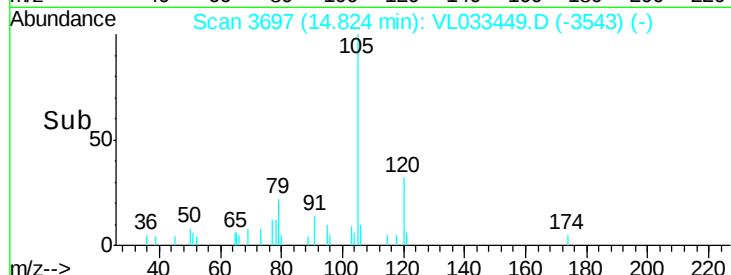
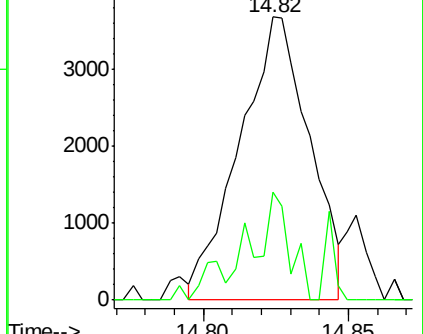
105 100

120 28.7 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.020 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.01 min

Lab File: VL033449.D

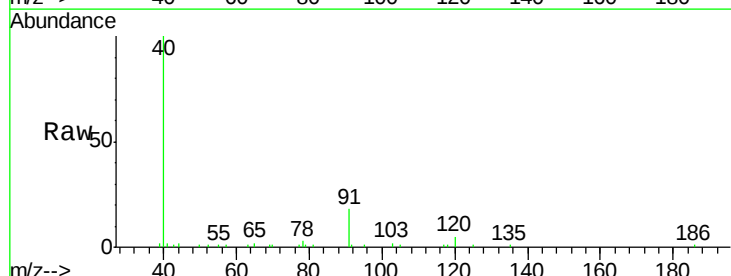
Acq: 25 Mar 2019 23:26

Tgt Ion:120 Resp: 1208

Ion Ratio Lower Upper

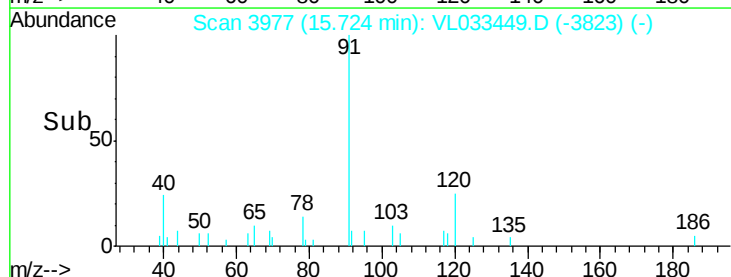
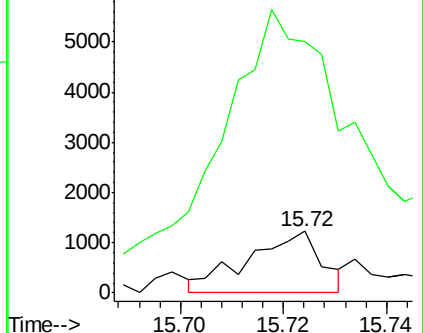
120 100

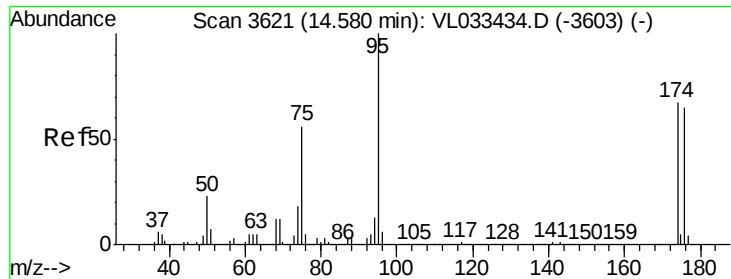
91 994.3 387.4 581.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

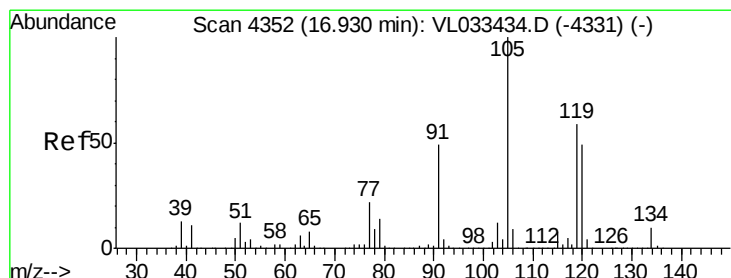
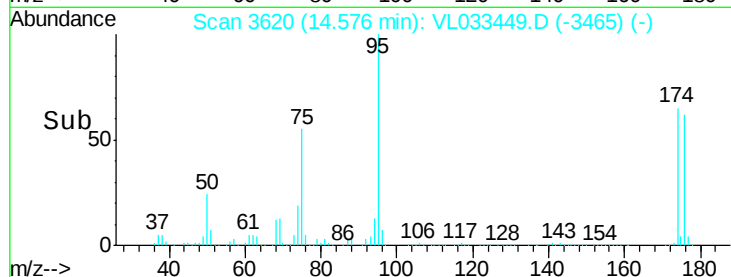
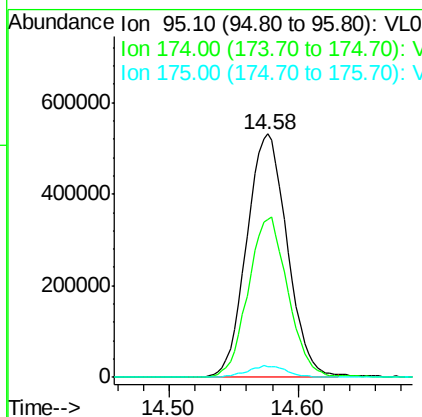
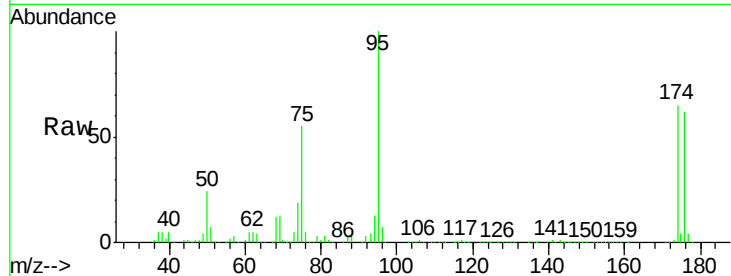




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.268 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.00 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

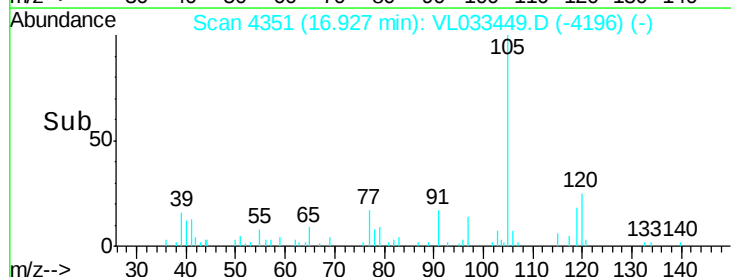
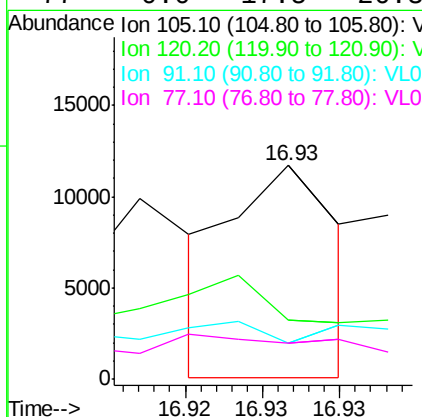
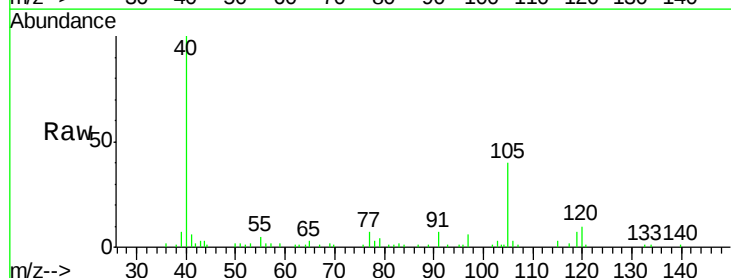
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

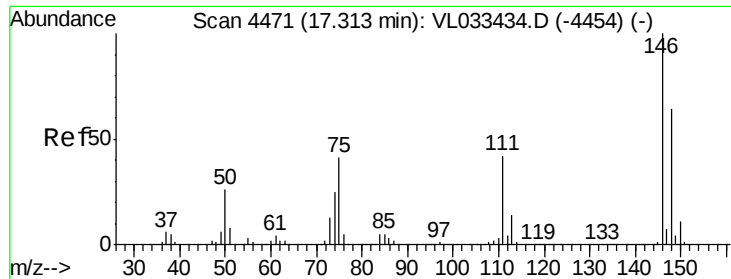
Tgt Ion: 95 Resp: 1164988
 Ion Ratio Lower Upper
 95 100
 174 65.0 52.9 79.3
 175 4.7 3.8 5.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.029 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.00 min
 Lab File: VL033449.D
 Acq: 25 Mar 2019 23:26

Tgt Ion: 105 Resp: 5575
 Ion Ratio Lower Upper
 105 100
 120 0.0 39.0 58.6#
 91 0.0 40.0 60.0#
 77 0.0 17.5 26.3#





#76

1,4-Dichlorobenzene

Concen: 0.058 ppbv

RT: 17.30 min Scan# 4468

Delta R.T. -0.01 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampled :

IA-1

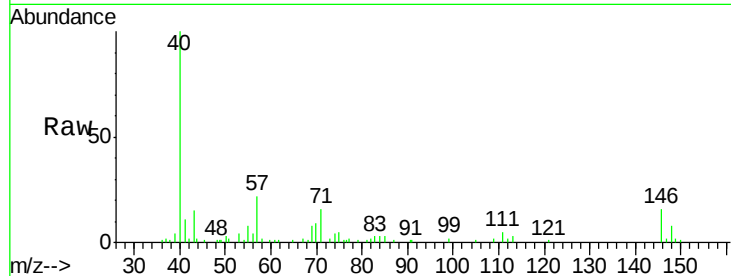
Tgt Ion:146 Resp: 6671

Ion Ratio Lower Upper

146 100

111 75.1 21.7 65.1#

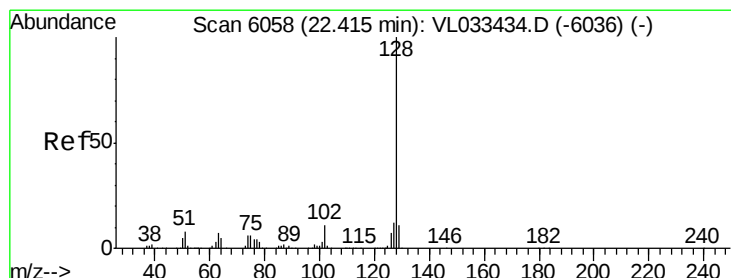
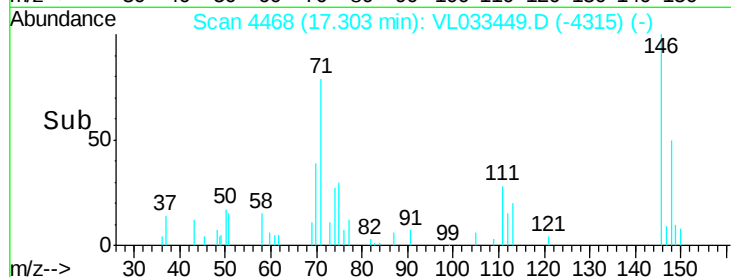
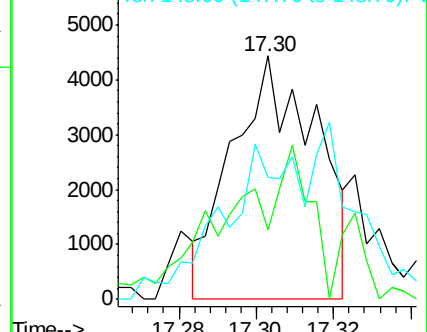
148 0.0 32.0 96.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.074 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

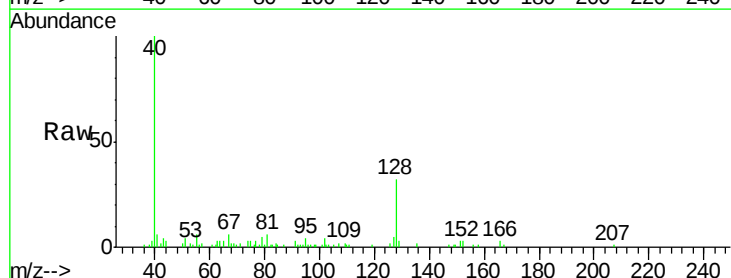
Tgt Ion:128 Resp: 12185

Ion Ratio Lower Upper

128 100

127 14.6 9.8 14.8

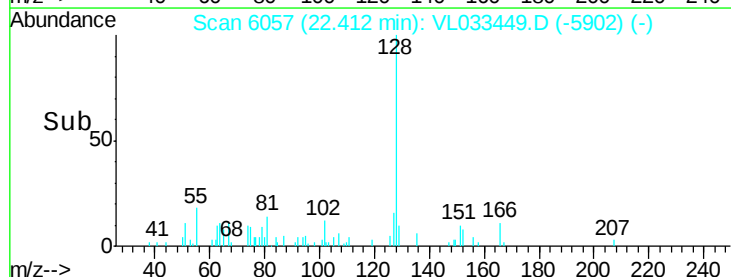
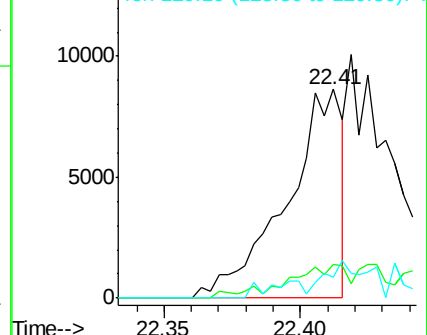
129 9.0 8.6 12.8

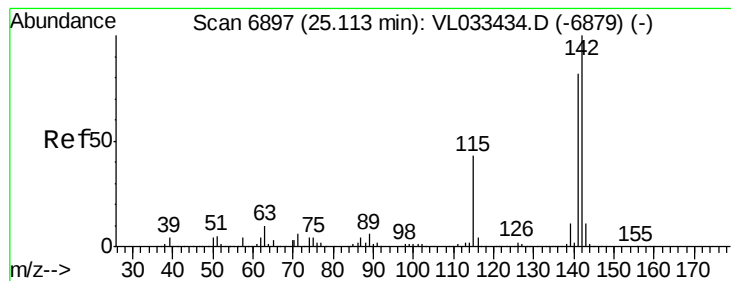


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.202 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.00 min

Lab File: VL033449.D

Acq: 25 Mar 2019 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-1

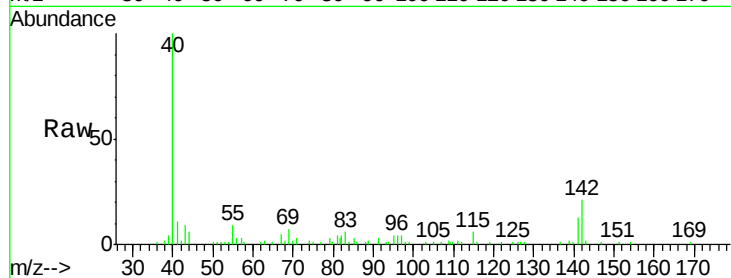
Tgt Ion:142 Resp: 11150

Ion Ratio Lower Upper

142 100

141 85.9 66.6 99.8

115 48.6 34.4 51.6



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

