

Data File : VL034836.D
Acq On : 7 Mar 2020 4:49
Operator : SY/AP
Sample : L1698-08DL2 600X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

Quant Time: Mar 07 05:44:03 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	888362	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	1993266	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	1964989	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1549344	9.46	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds						Qvalue
5) Vinyl Chloride	3.22	62	119452	2.074	ppbv	97
7) Chloroethane	3.22	64	39469	1.982	ppbv #	44
9) Propene	2.97	41	10443	0.262	ppbv #	15
10) Heptane	8.12	43	37484	0.370	ppbv	95
13) Ethanol	3.60	45	1904	0.139	ppbv #	59
15) Acetone	3.84	43	64557	0.607	ppbv	95
16) 1,3-Butadiene	3.27	39	16651	0.346	ppbv #	20
20) Methylene Chloride	4.32	84	13898	0.366	ppbv #	79
21) Allyl Chloride	4.35	41	3763	0.056	ppbv #	1
22) trans-1,2-Dichloroethene	4.87	96	2150	0.056	ppbv	90
23) Vinyl Acetate	5.04	43	41411	0.290	ppbv #	1
25) Ethyl Acetate	5.67	43	45282	0.246	ppbv #	78
26) Hexane	5.67	57	59771	0.744	ppbv #	42
30) Cyclohexane	7.13	84	21639	0.352	ppbv #	8
31) cis-1,2-Dichloroethene	5.54	61	604686	7.341	ppbv	96
36) Benzene	6.89	78	52533	0.308	ppbv	98
38) Trichloroethene	7.84	130	53865	0.811	ppbv	91
39) 1,2-Dichloropropane	7.18	63	512696	7.459	ppbv #	24
44) 2,2,4-Trimethylpentane	7.87	57	107953	0.363	ppbv #	75
52) Tetrachloroethene	11.24	164	8171	0.130	ppbv	87
53) Toluene	9.82	91	14383	0.080	ppbv	88

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

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SS-2-4DL2

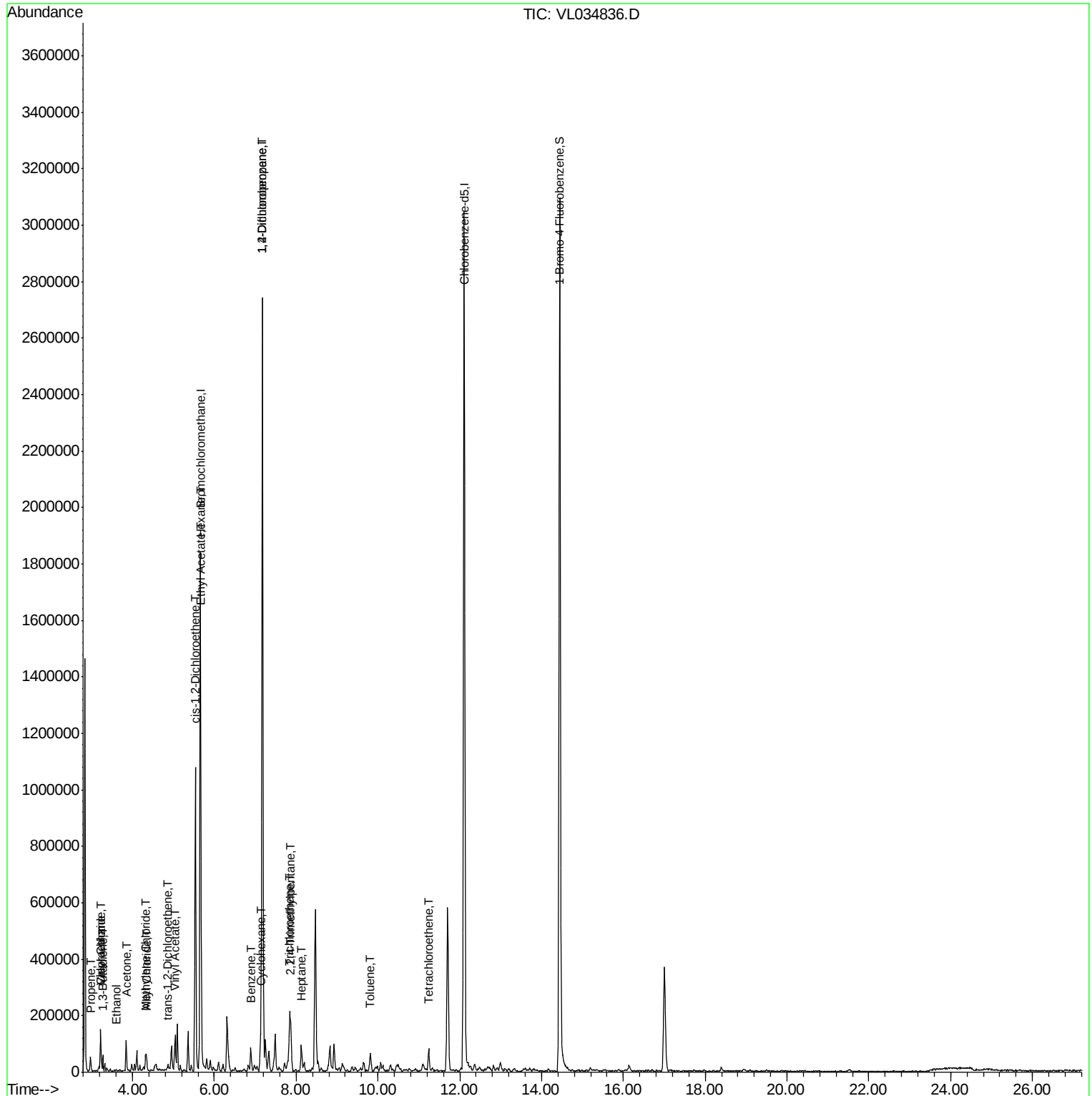
Quant Time: Mar 07 05:44:03 2020

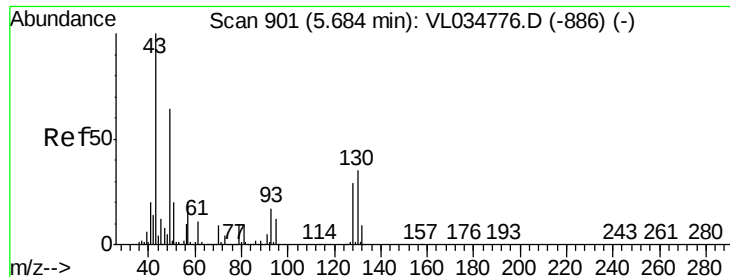
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL030420AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020

QLast Update : Wed Mar 04 06:36:39 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.03 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

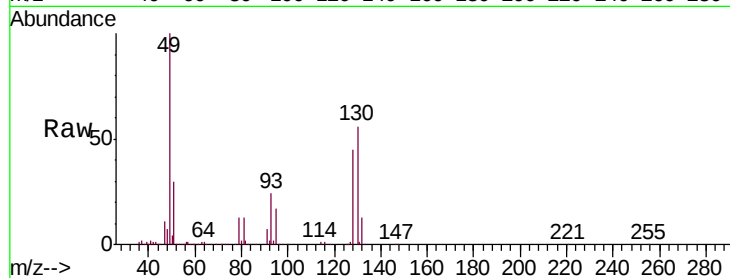
Tgt Ion: 49 Resp: 888362

Ion Ratio Lower Upper

49 100

128 46.7 21.6 64.6

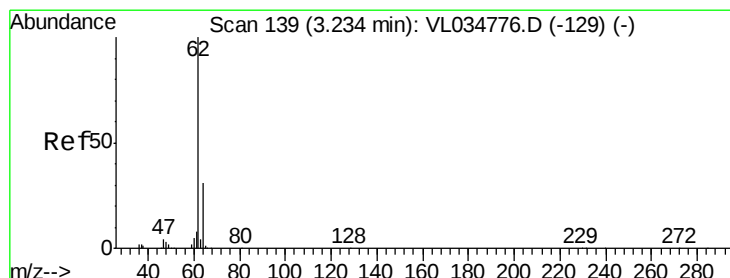
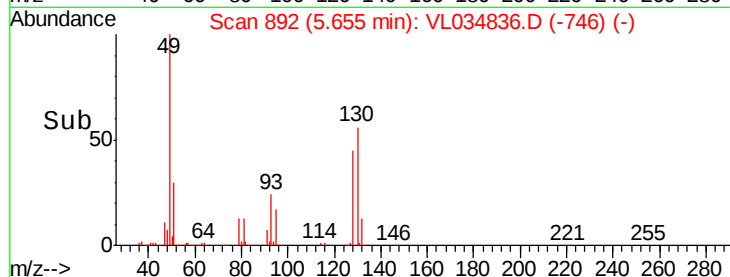
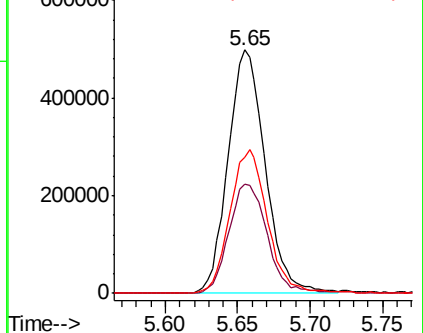
130 60.0 27.4 82.2



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

Vinyl Chloride

Concen: 2.074 ppbv

RT: 3.22 min Scan# 135

Delta R.T. -0.01 min

Lab File: VL034836.D

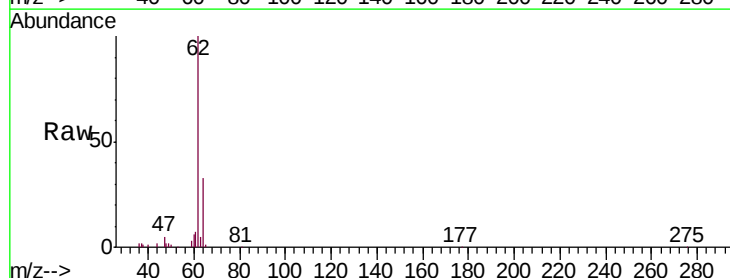
Acq: 7 Mar 2020 4:49

Tgt Ion: 62 Resp: 119452

Ion Ratio Lower Upper

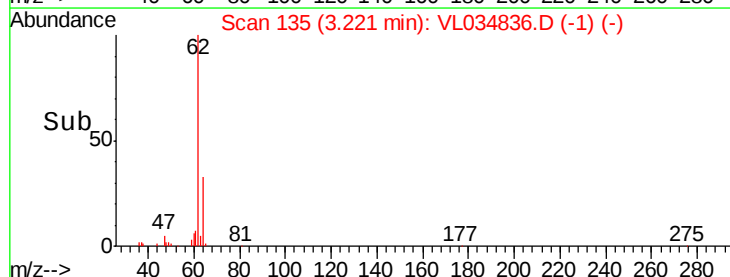
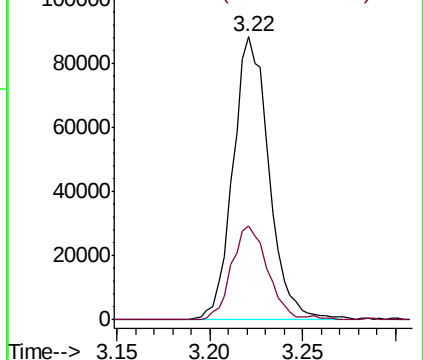
62 100

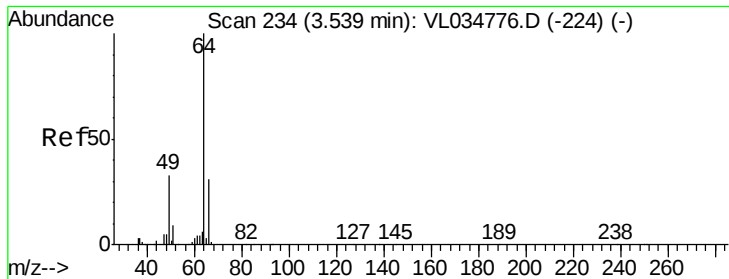
64 33.2 25.1 37.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#7

Chloroethane

Concen: 1.982 ppbv

RT: 3.22 min Scan# 135

Delta R.T. -0.32 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

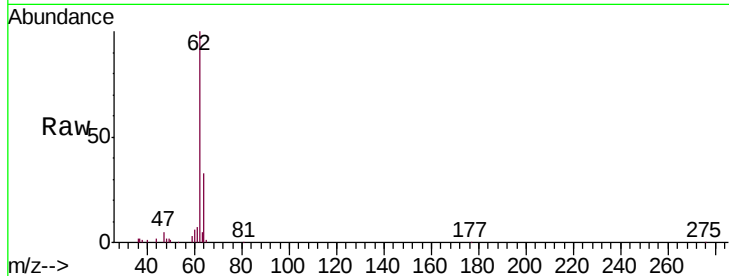
SS-2-4DL2

Tgt Ion: 64 Resp: 39469

Ion Ratio Lower Upper

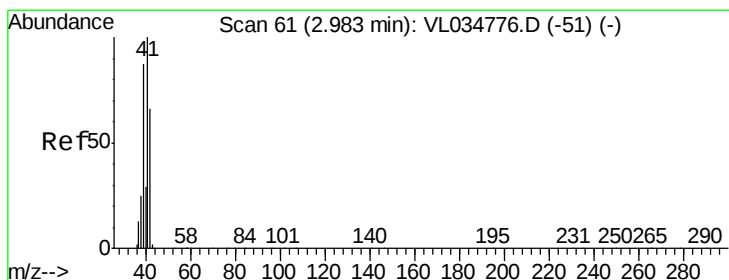
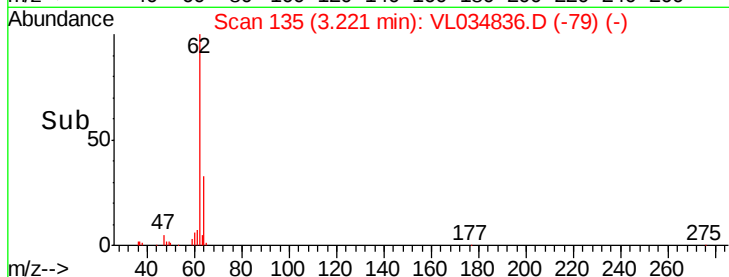
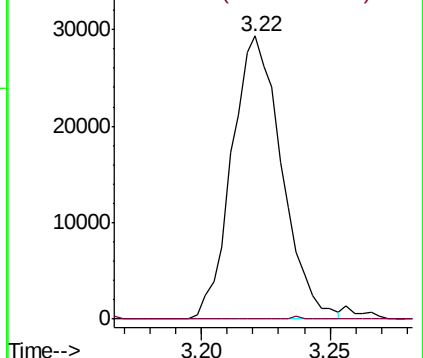
64 100

66 0.0 24.8 37.2#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 0.262 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.02 min

Lab File: VL034836.D

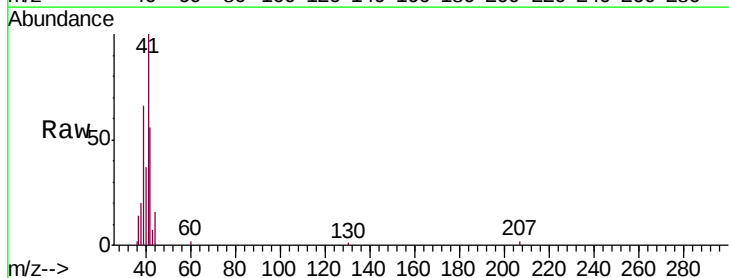
Acq: 7 Mar 2020 4:49

Tgt Ion: 41 Resp: 10443

Ion Ratio Lower Upper

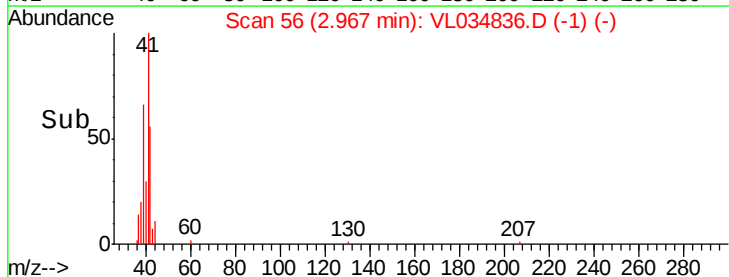
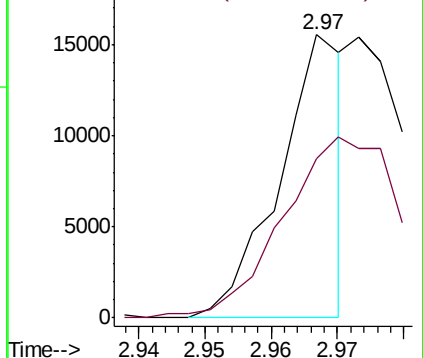
41 100

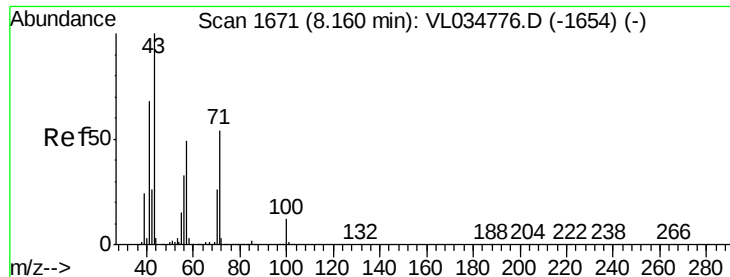
42 0.0 55.6 83.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.370 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.04 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

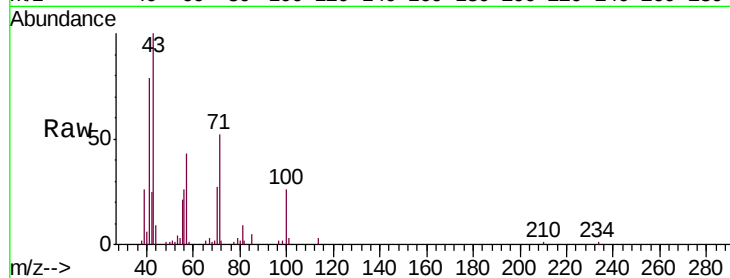
SS-2-4DL2

Tgt Ion: 43 Resp: 37484

Ion Ratio Lower Upper

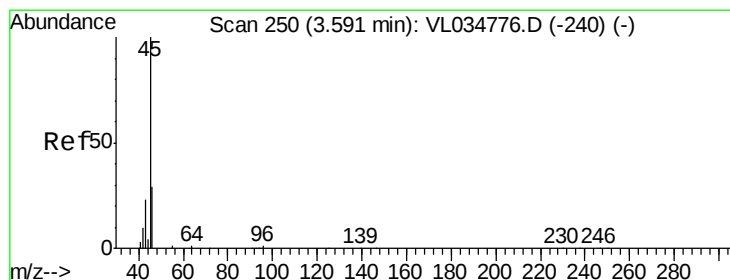
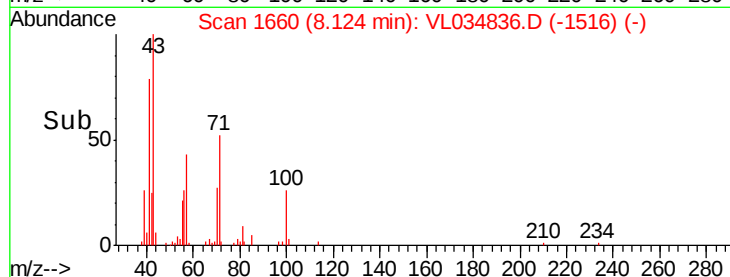
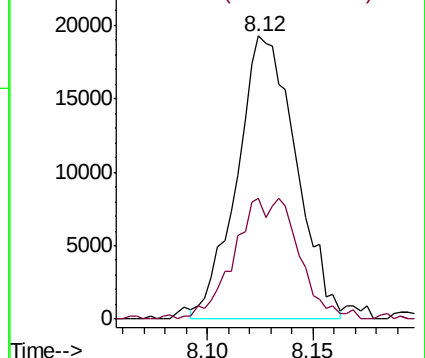
43 100

57 47.2 40.5 60.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 0.139 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.01 min

Lab File: VL034836.D

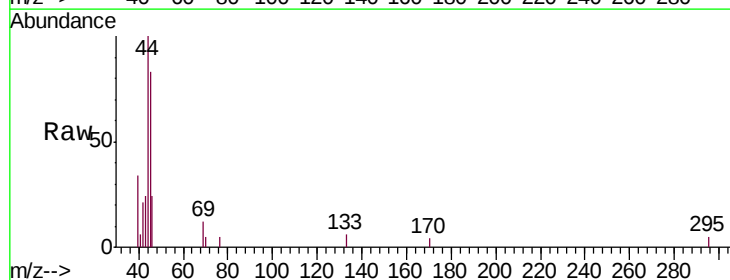
Acq: 7 Mar 2020 4:49

Tgt Ion: 45 Resp: 1904

Ion Ratio Lower Upper

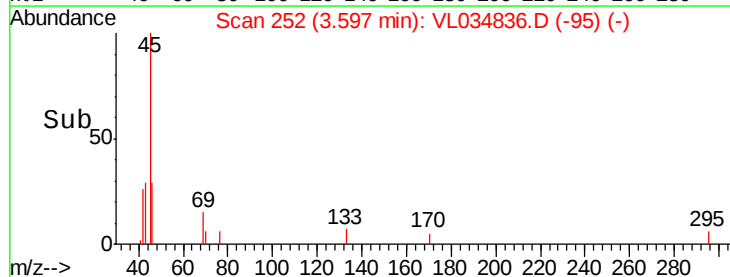
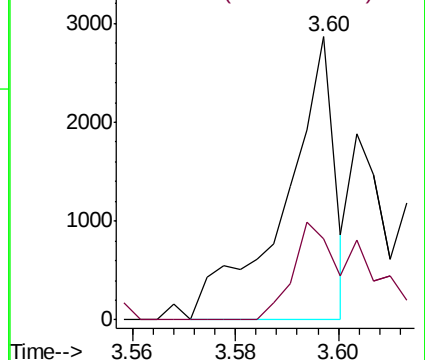
45 100

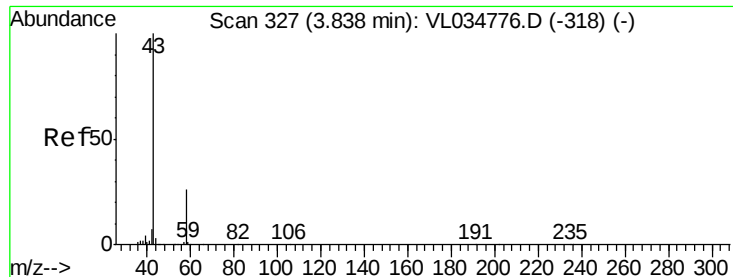
46 61.4 14.7 58.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.607 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

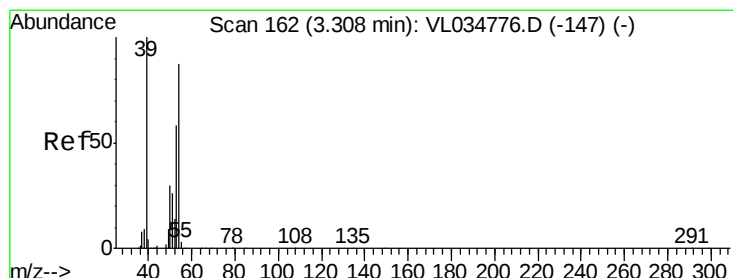
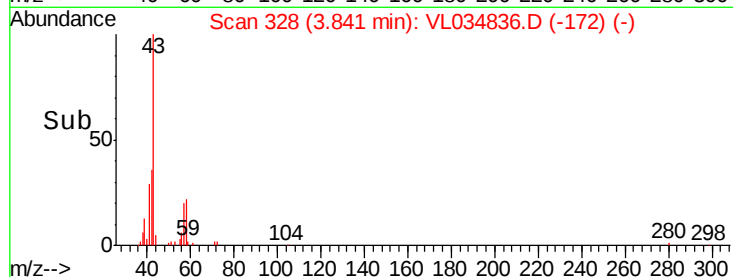
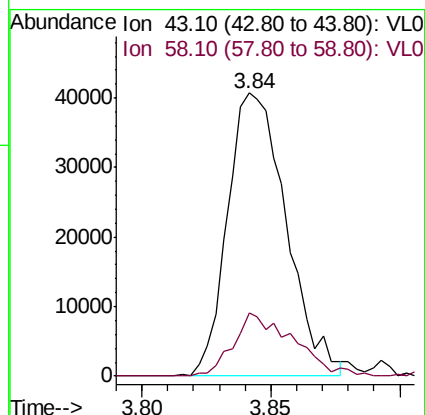
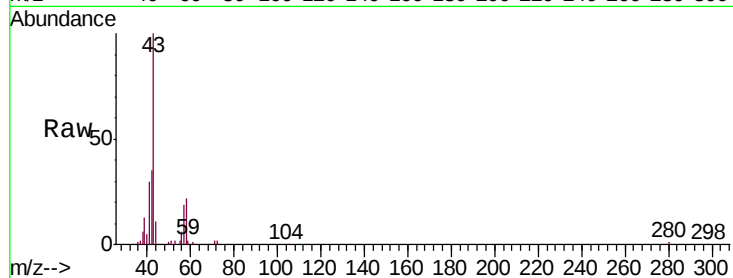
SS-2-4DL2

Tgt Ion: 43 Resp: 64557

Ion Ratio Lower Upper

43 100

58 23.5 21.0 31.6



#16

1,3-Butadiene

Concen: 0.346 ppbv

RT: 3.27 min Scan# 149

Delta R.T. -0.04 min

Lab File: VL034836.D

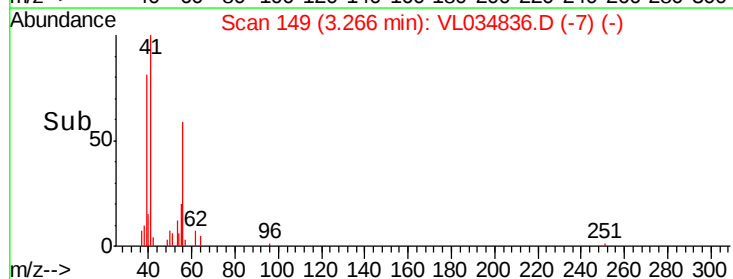
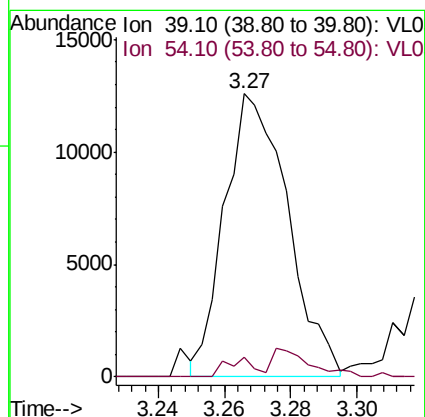
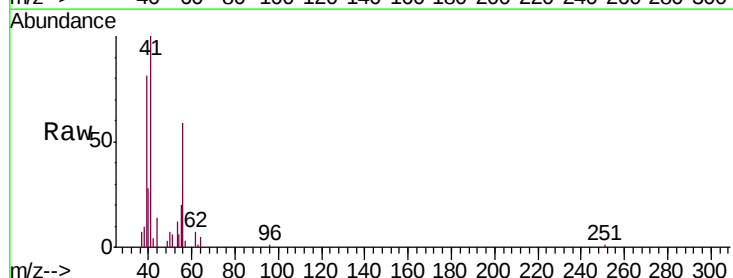
Acq: 7 Mar 2020 4:49

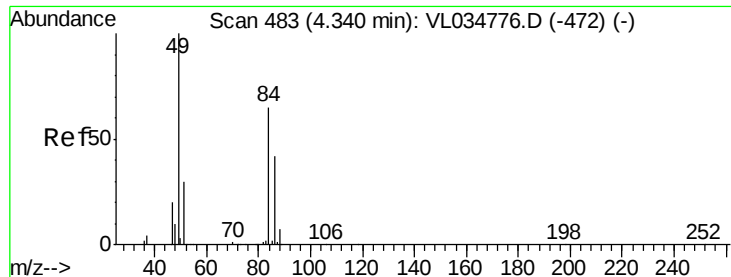
Tgt Ion: 39 Resp: 16651

Ion Ratio Lower Upper

39 100

54 9.3 64.2 96.2#

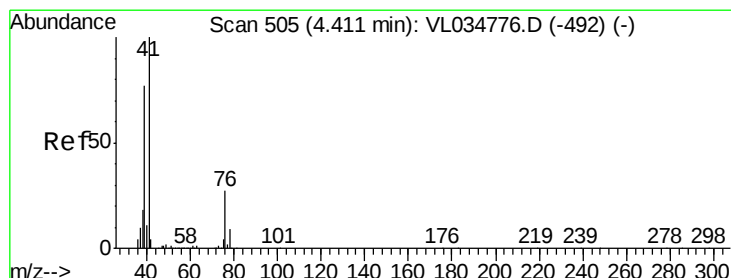
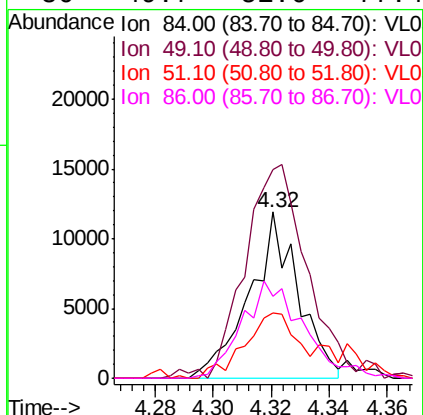
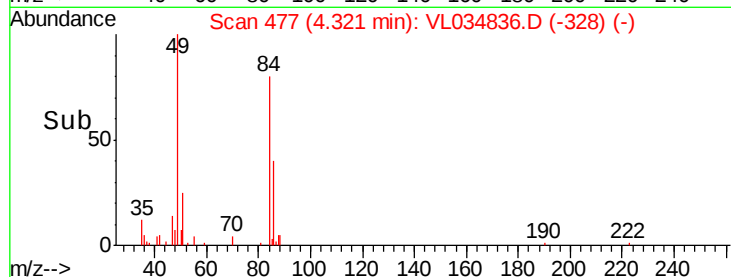
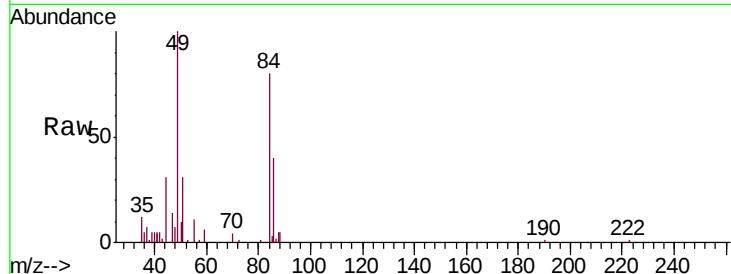




#20
Methylene Chloride
Concen: 0.366 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.02 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

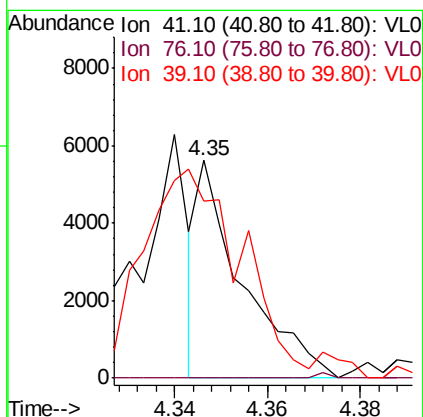
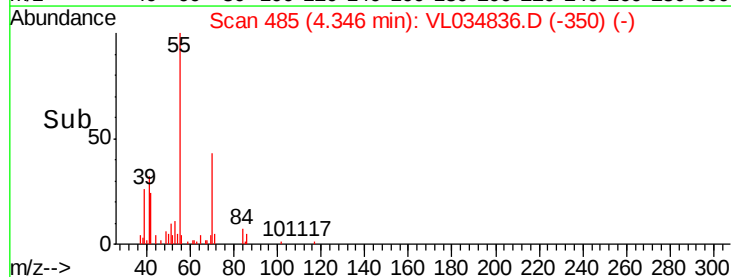
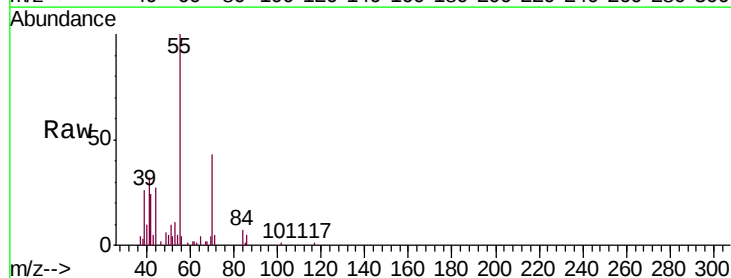
Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

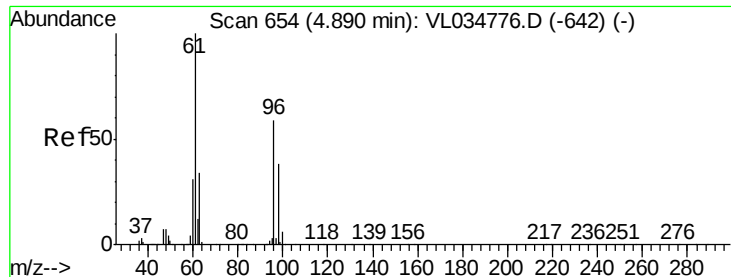
Tgt Ion: 84 Resp: 13898
Ion Ratio Lower Upper
84 100
49 122.8 123.2 184.8#
51 39.1 37.4 56.2
86 49.7 51.6 77.4#



#21
Allyl Chloride
Concen: 0.056 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.06 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Tgt Ion: 41 Resp: 3763
Ion Ratio Lower Upper
41 100
76 0.0 22.5 33.7#
39 235.3 65.0 97.6#





#22

trans-1,2-Dichloroethene

Concen: 0.056 ppbv

RT: 4.87 min Scan# 648

Delta R.T. -0.02 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

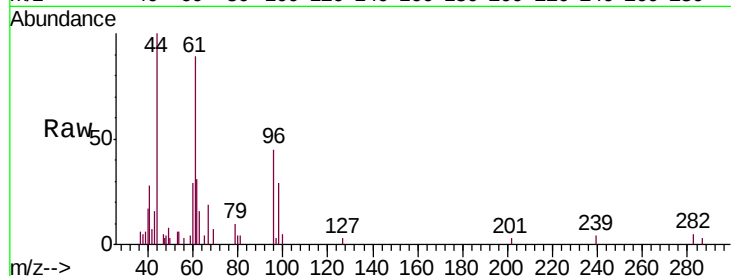
Tgt Ion: 96 Resp: 2150

Ion Ratio Lower Upper

96 100

61 186.4 135.2 202.8

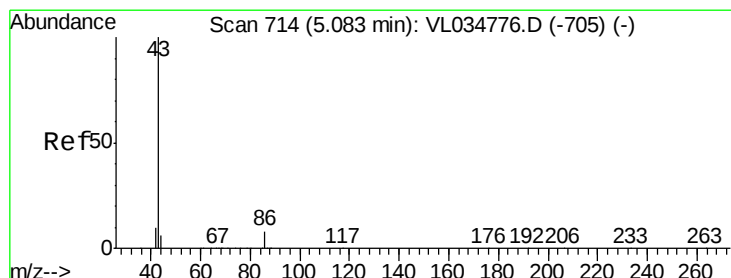
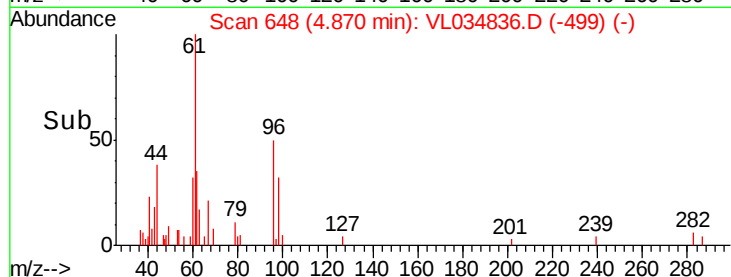
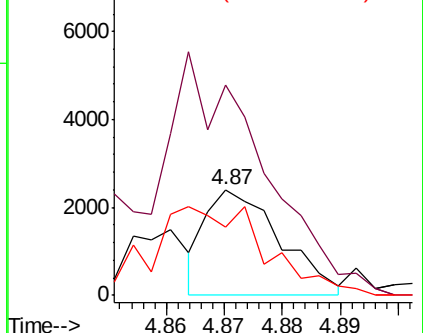
98 61.0 50.8 76.2



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.290 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.05 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Tgt Ion: 43 Resp: 41411

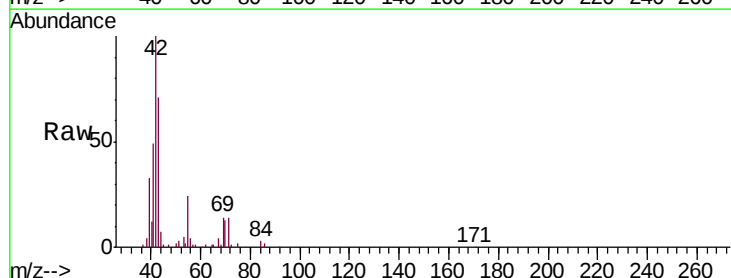
Ion Ratio Lower Upper

43 100

86 2.7 5.9 8.9#

42 142.2 8.2 12.2#

44 0.0 4.5 6.7#

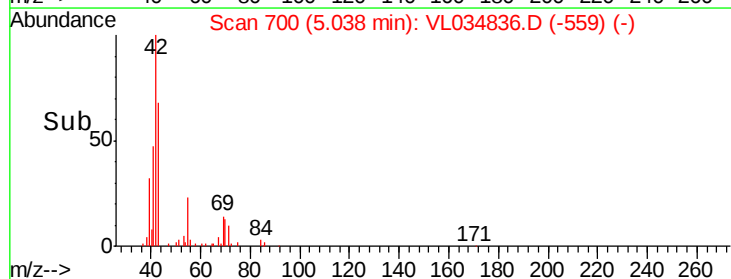
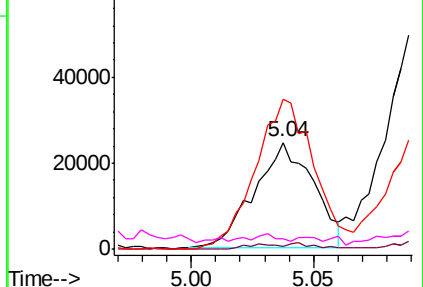


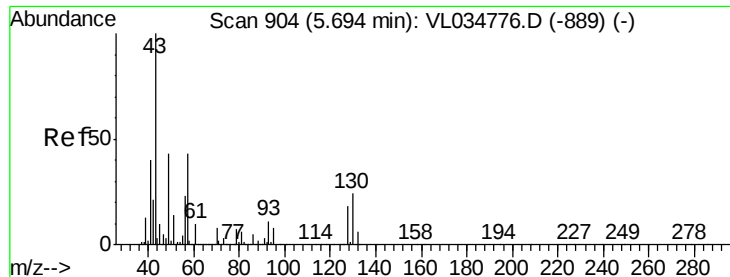
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

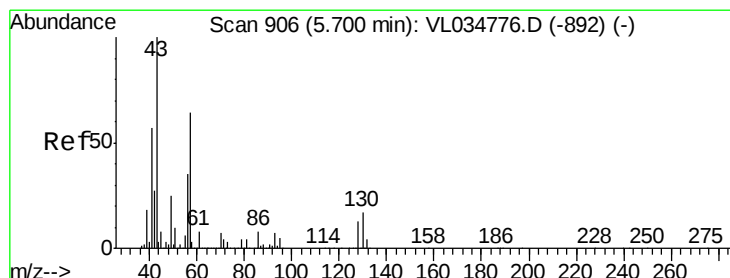
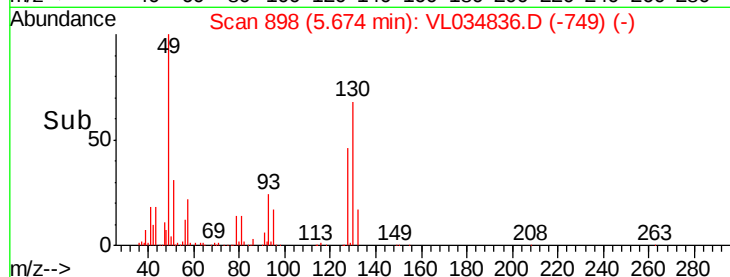
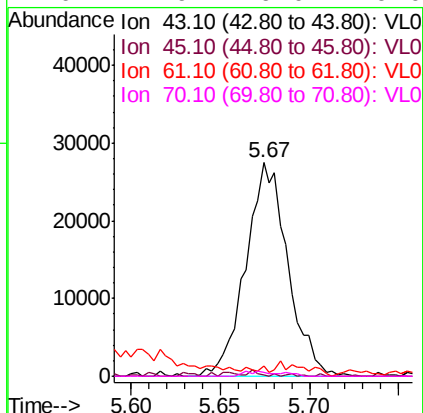
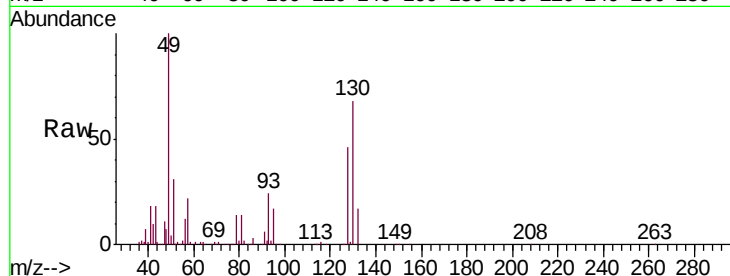




#25
Ethyl Acetate
Concen: 0.246 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

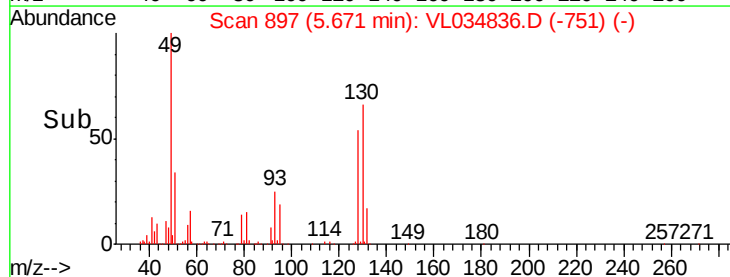
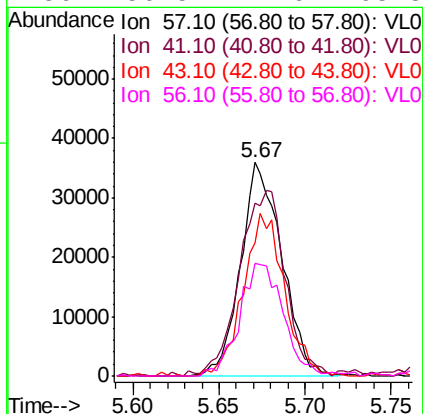
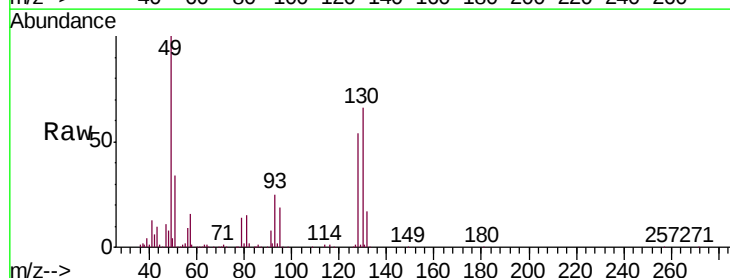
Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

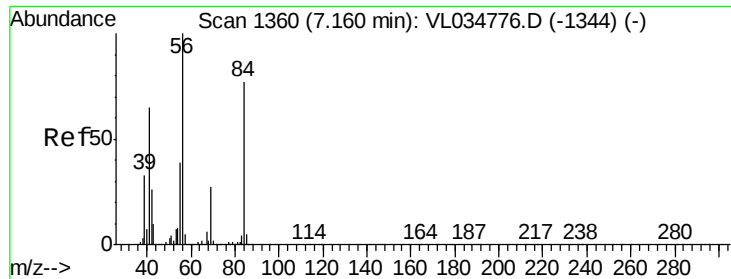
Tgt Ion:	43	Resp:	45282
Ion	Ratio	Lower	Upper
43	100		
45	1.5	8.2	12.4#
61	0.0	7.5	11.3#
70	1.9	6.0	9.0#



#26
Hexane
Concen: 0.744 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.03 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Tgt Ion:	57	Resp:	59771
Ion	Ratio	Lower	Upper
57	100		
41	98.8	72.0	108.0
43	76.0	179.1	268.7#
56	56.5	42.6	63.8

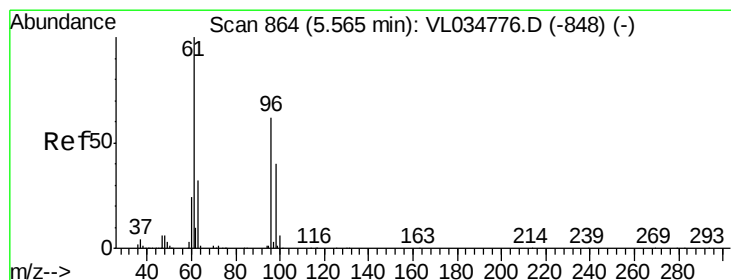
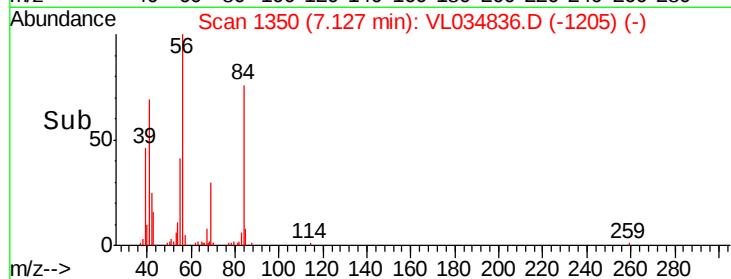
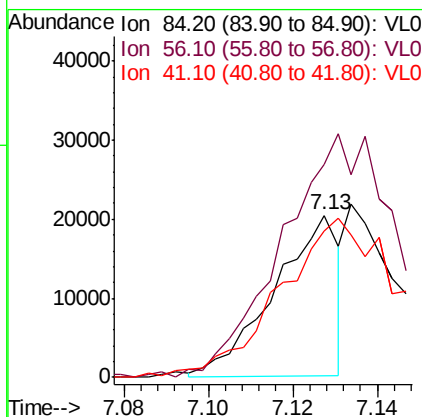
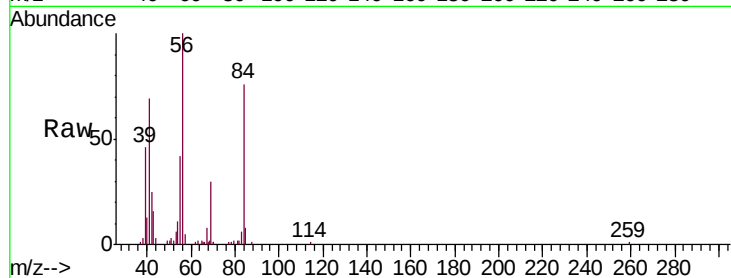




#30
Cyclohexane
Concen: 0.352 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.03 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

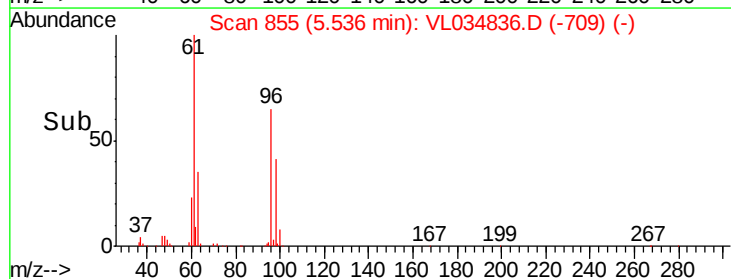
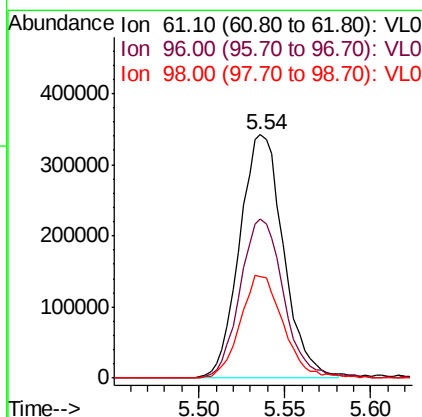
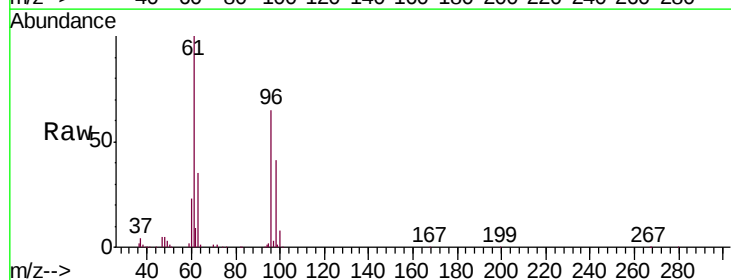
Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2

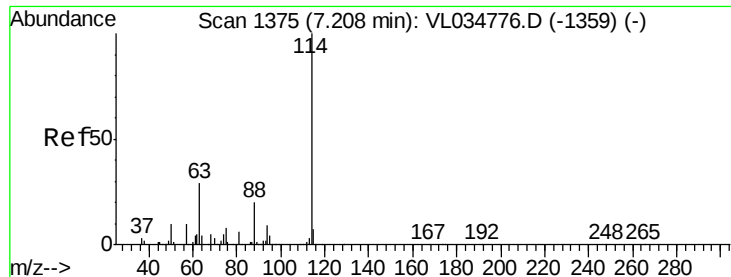
Tgt Ion: 84 Resp: 21639
Ion Ratio Lower Upper
84 100
56 247.4 113.2 169.8#
41 182.0 70.2 105.4#



#31
cis-1,2-Dichloroethene
Concen: 7.341 ppbv
RT: 5.54 min Scan# 855
Delta R.T. -0.03 min
Lab File: VL034836.D
Acq: 7 Mar 2020 4:49

Tgt Ion: 61 Resp: 604686
Ion Ratio Lower Upper
61 100
96 65.4 49.7 74.5
98 41.5 31.9 47.9

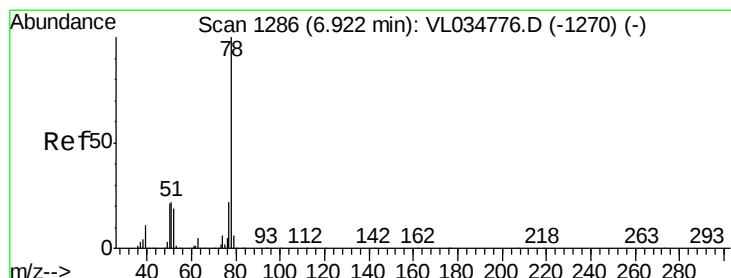
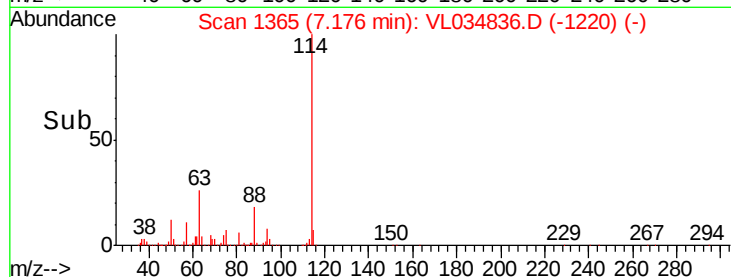
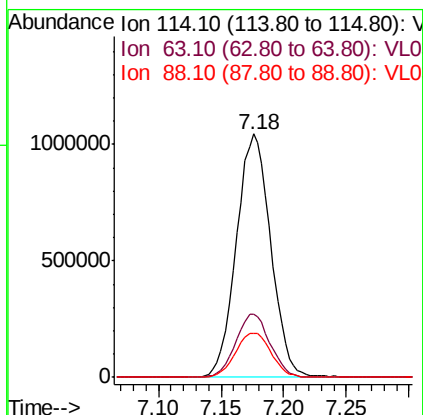
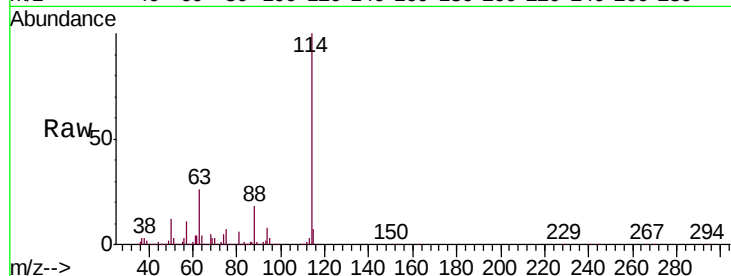




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.03 min
 Lab File: VL034836.D
 Acq: 7 Mar 2020 4:49

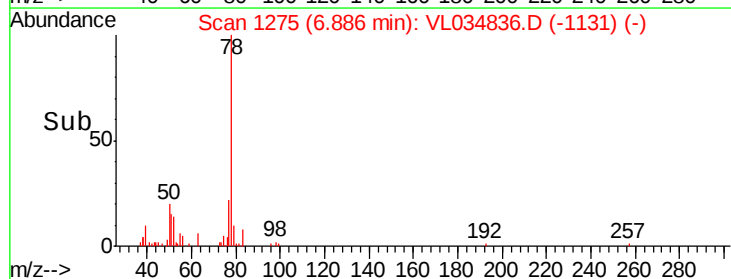
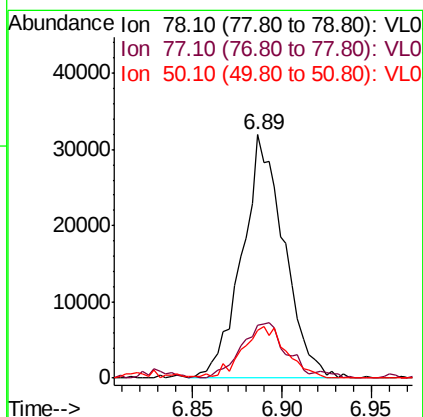
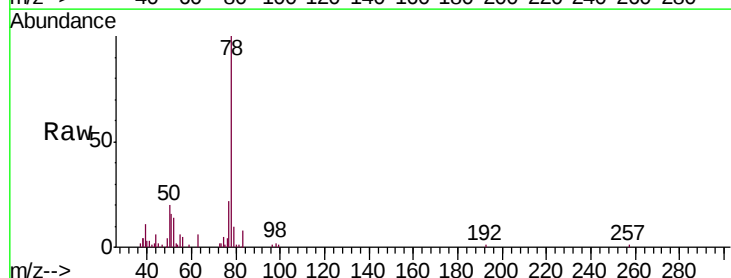
Instrument :
 MSVOA_L
 ClientSampled :
 SS-2-4DL2

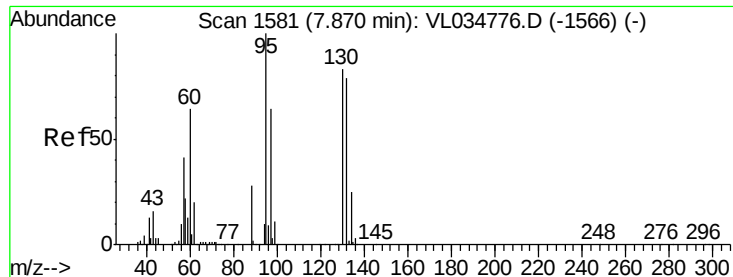
Tgt Ion:114 Resp: 1993266
 Ion Ratio Lower Upper
 114 100
 63 26.1 23.6 35.4
 88 18.8 15.8 23.8



#36
 Benzene
 Concen: 0.308 ppbv
 RT: 6.89 min Scan# 1275
 Delta R.T. -0.04 min
 Lab File: VL034836.D
 Acq: 7 Mar 2020 4:49

Tgt Ion: 78 Resp: 52533
 Ion Ratio Lower Upper
 78 100
 77 21.9 18.0 27.0
 50 19.7 16.9 25.3





#38

Trichloroethene

Concen: 0.811 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.03 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

Tgt Ion:130 Resp: 53865

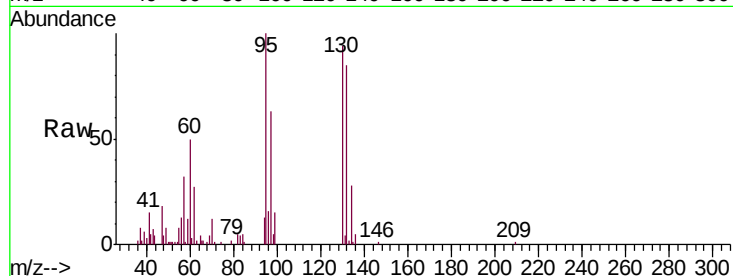
Ion Ratio Lower Upper

130 100

95 106.2 95.8 143.8

132 91.1 76.1 114.1

97 67.2 61.1 91.7

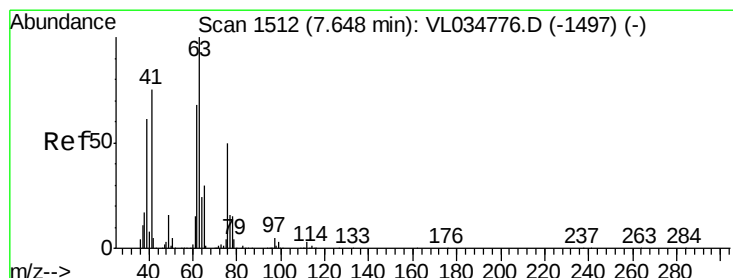
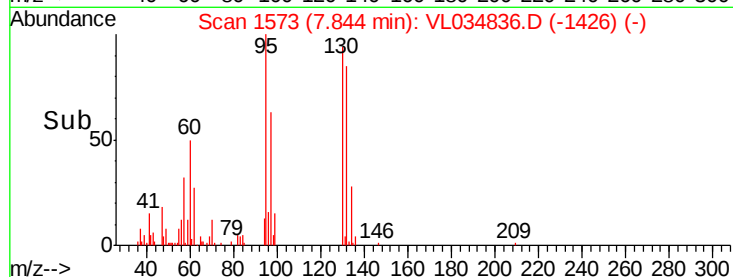
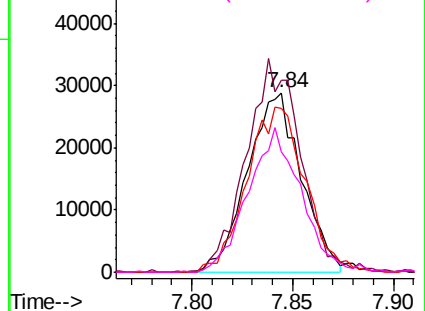


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.459 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.47 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

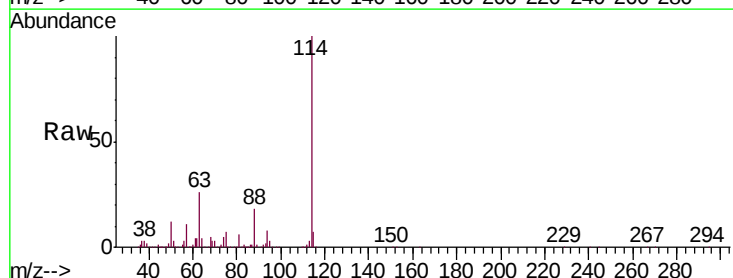
Tgt Ion: 63 Resp: 512696

Ion Ratio Lower Upper

63 100

41 0.0 60.3 90.5#

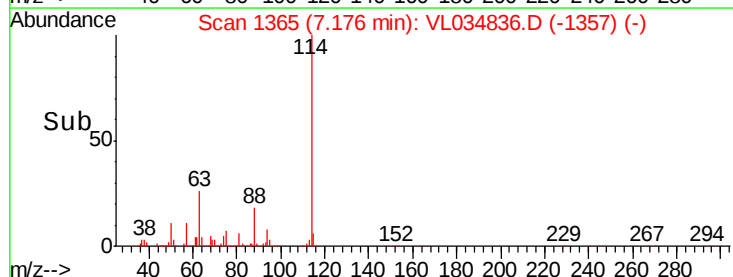
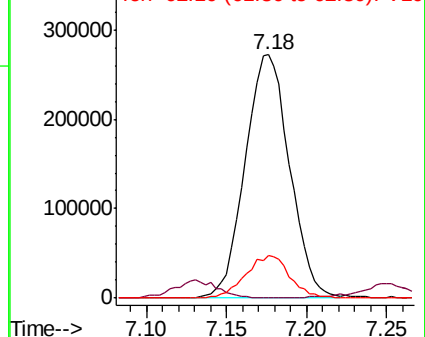
62 17.2 54.5 81.7#

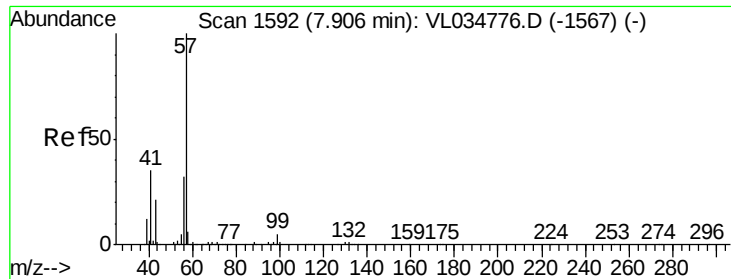


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.363 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.04 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

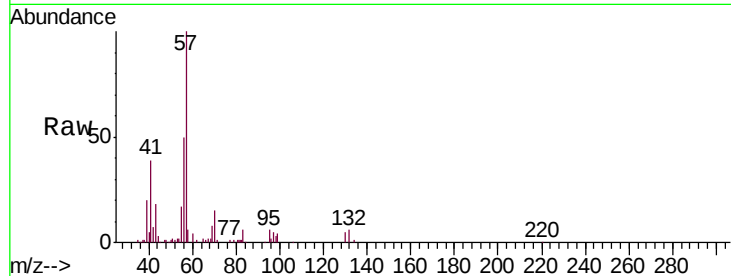
Tgt Ion: 57 Resp: 107953

Ion Ratio Lower Upper

57 100

41 44.8 27.4 41.0#

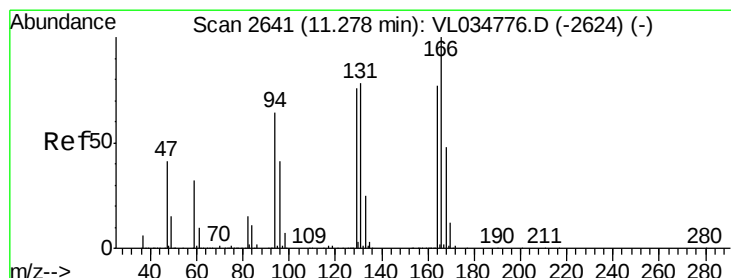
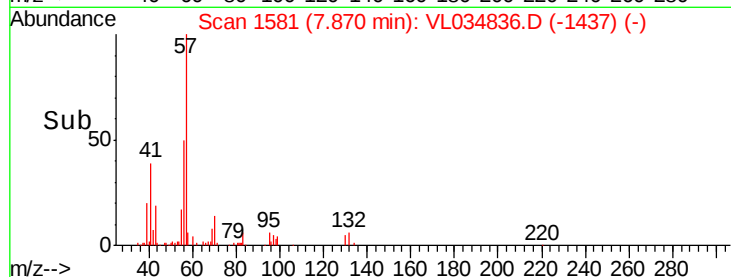
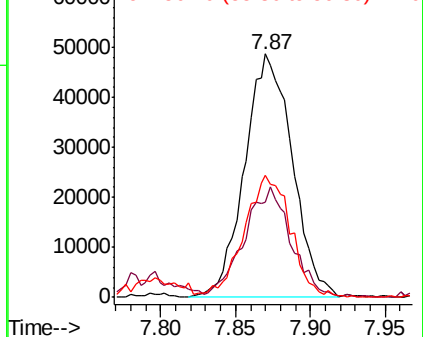
56 49.0 25.0 37.6#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#52

Tetrachloroethene

Concen: 0.130 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. -0.04 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Tgt Ion: 164 Resp: 8171

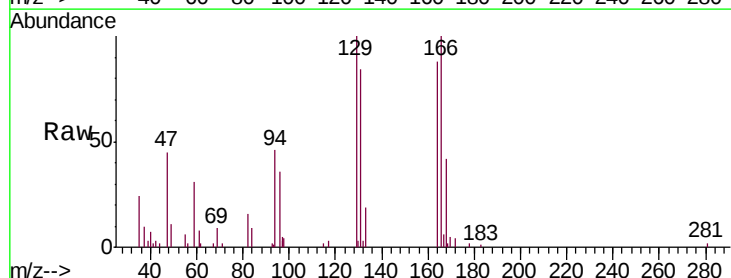
Ion Ratio Lower Upper

164 100

166 109.2 103.3 154.9

129 115.2 79.0 118.4

131 95.8 81.0 121.4

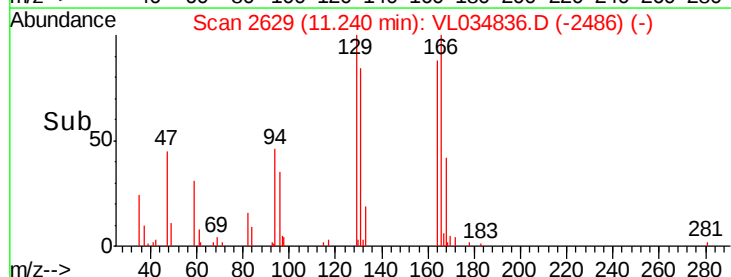
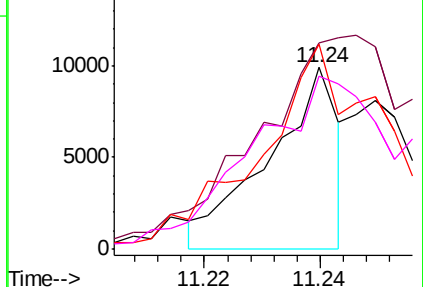


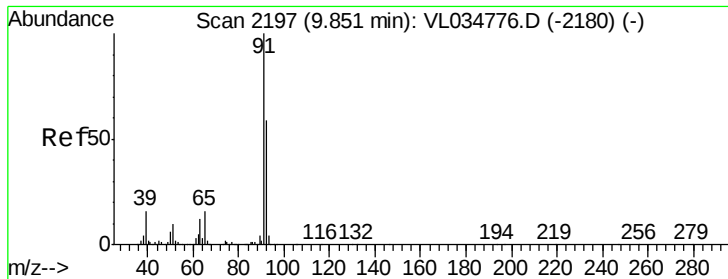
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.080 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.03 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampled :

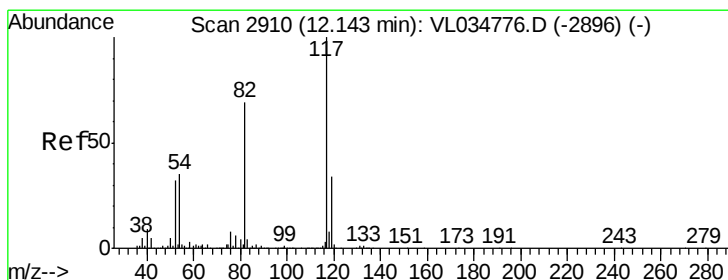
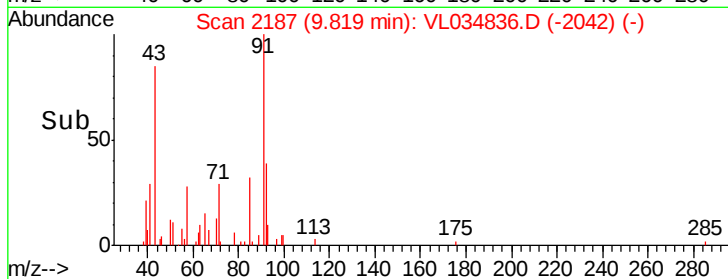
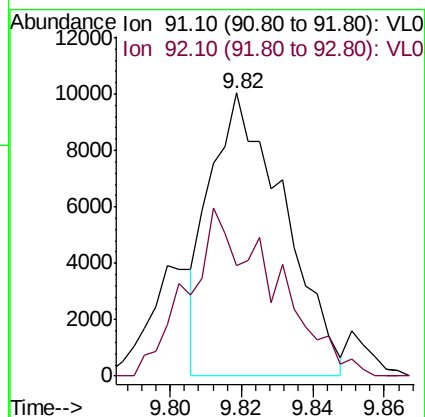
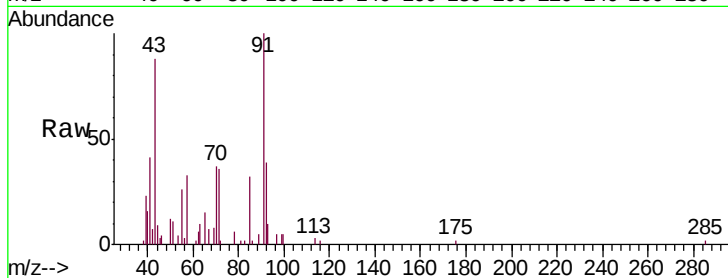
SS-2-4DL2

Tgt Ion: 91 Resp: 14383

Ion Ratio Lower Upper

91 100

92 69.5 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.04 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

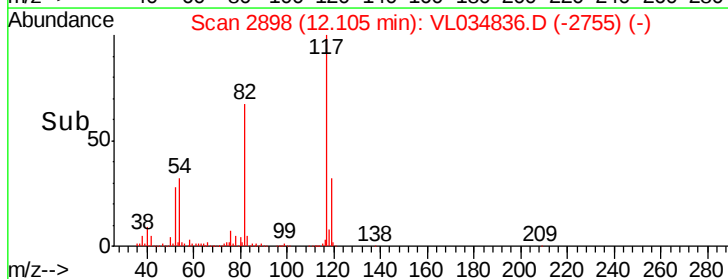
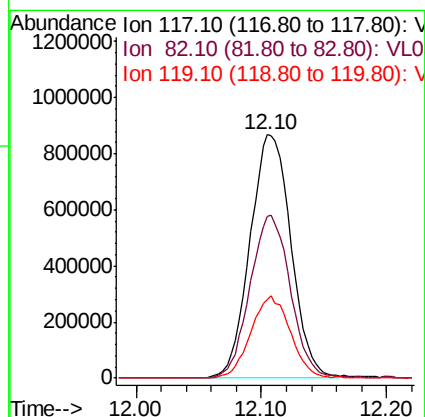
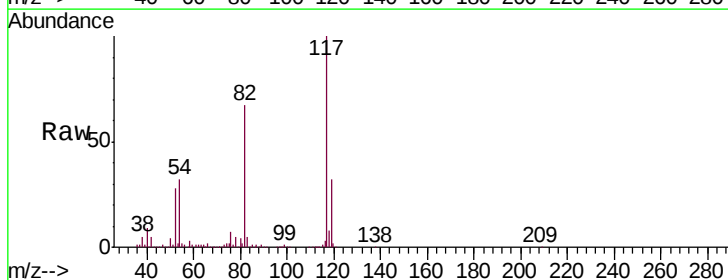
Tgt Ion: 117 Resp: 1964989

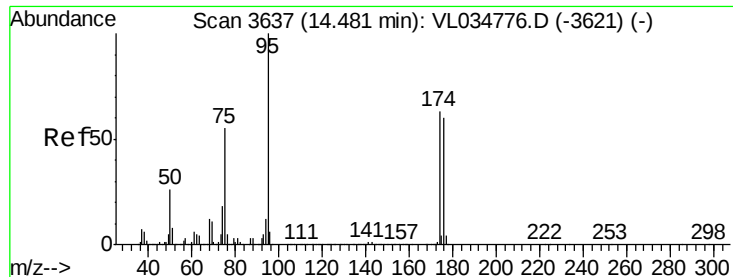
Ion Ratio Lower Upper

117 100

82 66.7 53.9 80.9

119 32.8 25.0 37.4





#68

1-Bromo-4-Fluorobenzene

Concen: 9.456 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.04 min

Lab File: VL034836.D

Acq: 7 Mar 2020 4:49

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2

Tgt Ion: 95 Resp: 1549344

Ion Ratio Lower Upper

95 100

174 69.9 50.6 76.0

175 5.3 3.8 5.6

