

Data File : VL034835.D
Acq On : 7 Mar 2020 4:11
Operator : SY/AP
Sample : L1698-08DUPDL2 300X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2DUP

Quant Time: Mar 07 05:43:40 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	5.66	49	884919	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	2017740	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.11	117	1994162	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1561007	9.39	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

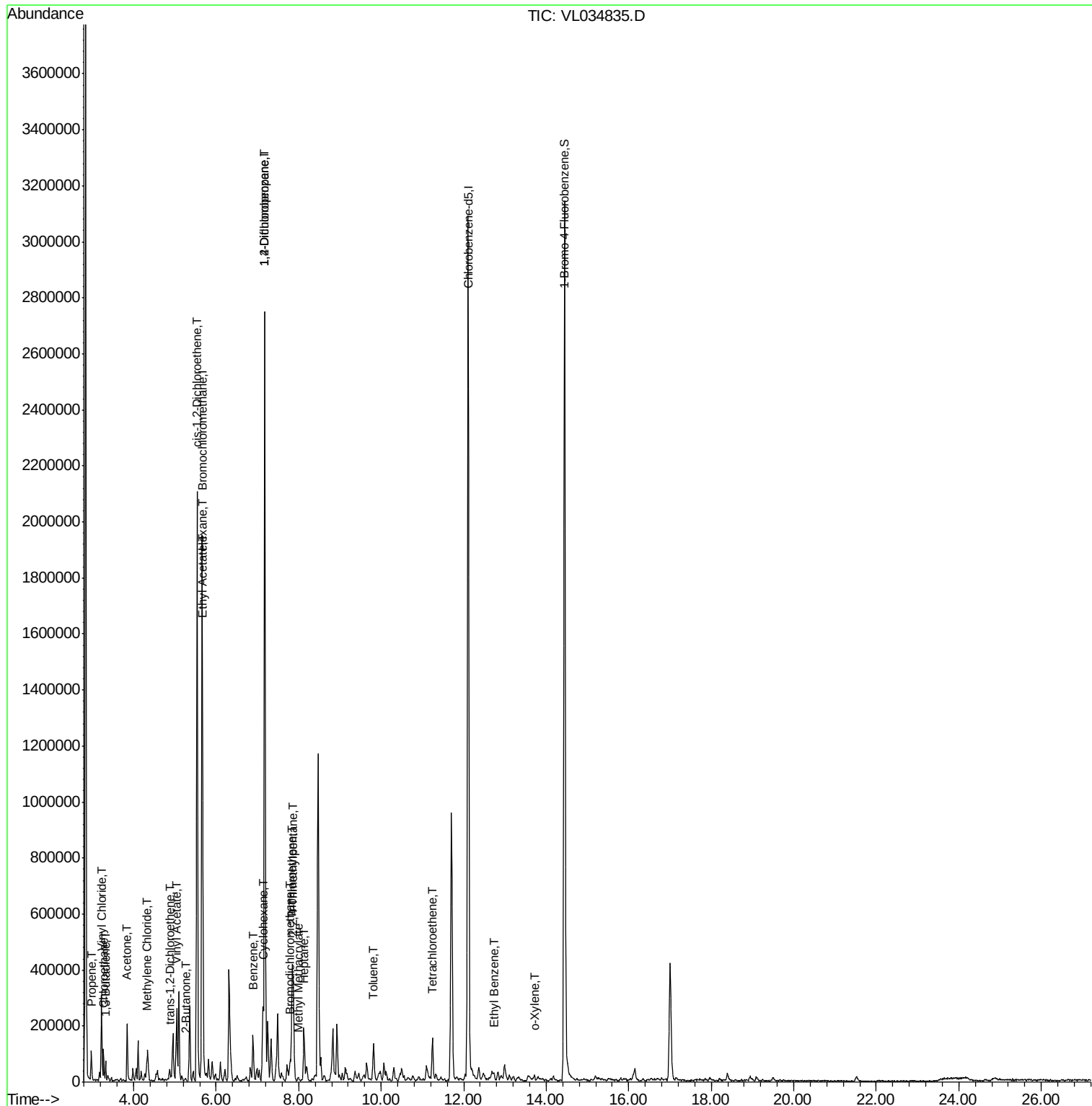
Target Compounds						Qvalue
5) Vinyl Chloride	3.22	62	245455	4.279	ppbv	99
7) Chloroethane	3.26	64	1097	0.055	ppbv #	44
9) Propene	2.97	41	39989	1.008	ppbv	94
10) Heptane	8.13	43	78011	0.774	ppbv	97
15) Acetone	3.84	43	118474	1.118	ppbv #	89
16) 1,3-Butadiene	3.31	39	2759	0.058	ppbv #	20
20) Methylene Chloride	4.32	84	24090	0.637	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	3197	0.083	ppbv #	66
23) Vinyl Acetate	5.04	43	84877	0.597	ppbv #	1
25) Ethyl Acetate	5.68	43	86072	0.470	ppbv #	78
26) Hexane	5.67	57	123926	1.549	ppbv #	41
30) Cyclohexane	7.13	84	92523	1.512	ppbv #	75
31) cis-1,2-Dichloroethene	5.54	61	1206613	14.706	ppbv	99
34) 2-Butanone	5.25	43	11778	0.090	ppbv	97
36) Benzene	6.89	78	111946	0.649	ppbv #	92
38) Trichloroethene	7.84	130	118503	1.763	ppbv #	83
39) 1,2-Dichloropropane	7.18	63	512225	7.362	ppbv #	23
42) Bromodichloromethane	7.80	83	13117	0.088	ppbv #	25
43) Methyl Methacrylate	7.99	69	2900	0.040	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	129280	0.429	ppbv #	13
52) Tetrachloroethene	11.25	164	39086	0.614	ppbv	91
53) Toluene	9.82	91	17386	0.095	ppbv #	21
58) Ethyl Benzene	12.73	91	10897	0.044	ppbv	99
60) o-Xylene	13.72	91	8143	0.038	ppbv #	64

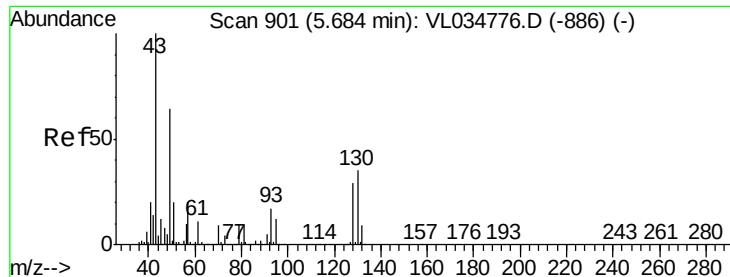
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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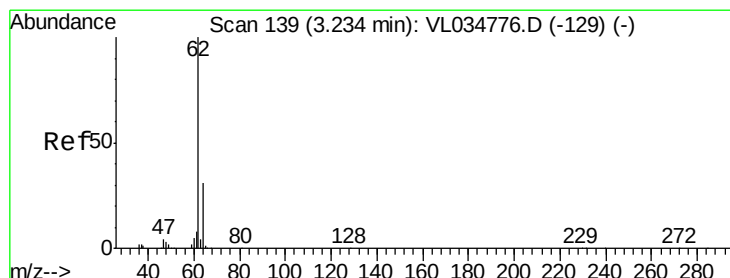
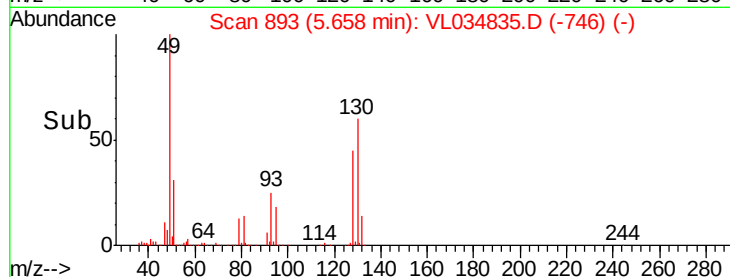
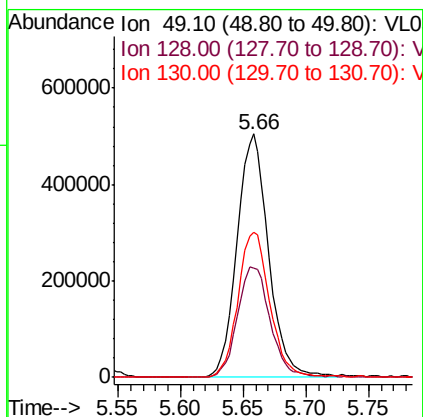
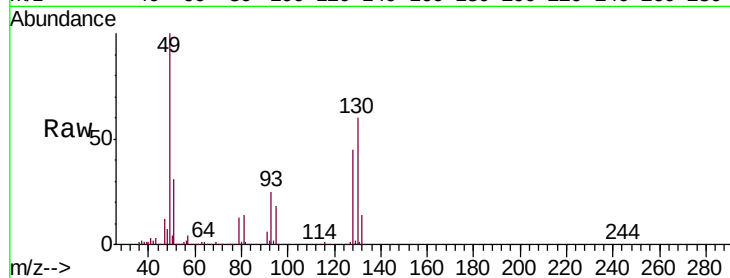




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. -0.03 min
 Lab File: VL034835.D
 Acq: 7 Mar 2020 4:11

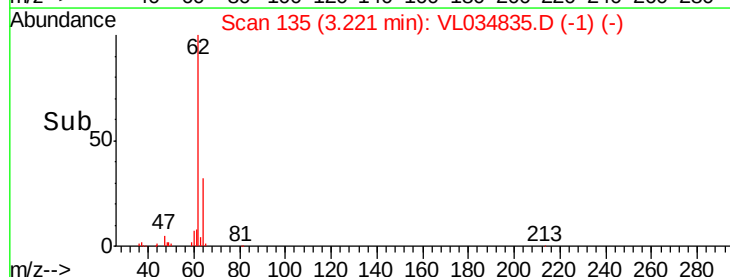
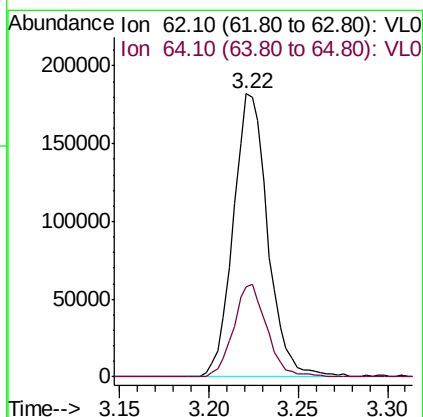
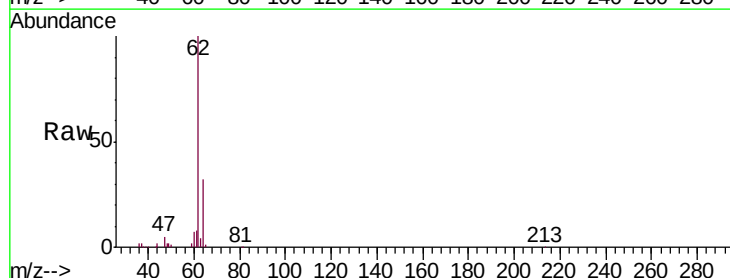
Instrument :
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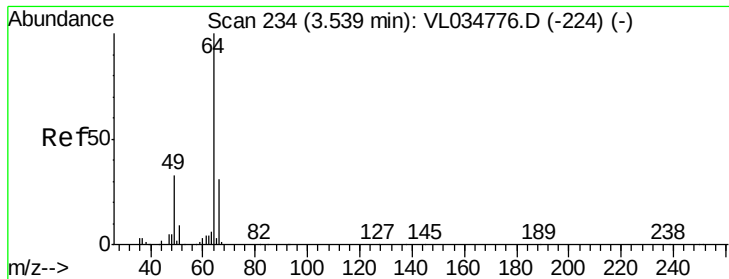
Tgt Ion: 49 Resp: 884919
 Ion Ratio Lower Upper
 49 100
 128 47.3 21.6 64.6
 130 61.0 27.4 82.2



#5
 Vinyl Chloride
 Concen: 4.279 ppbv
 RT: 3.22 min Scan# 135
 Delta R.T. -0.01 min
 Lab File: VL034835.D
 Acq: 7 Mar 2020 4:11

Tgt Ion: 62 Resp: 245455
 Ion Ratio Lower Upper
 62 100
 64 32.0 25.1 37.7





#7

Chloroethane

Concen: 0.055 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.28 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

Instrument :

MSVOA_L

ClientSampleId :

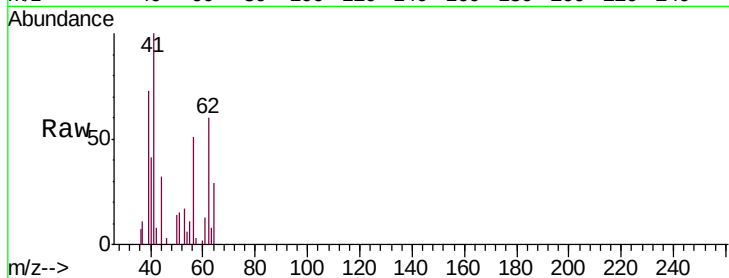
SS-2-4DL2DUP

Tgt Ion: 64 Resp: 1097

Ion Ratio Lower Upper

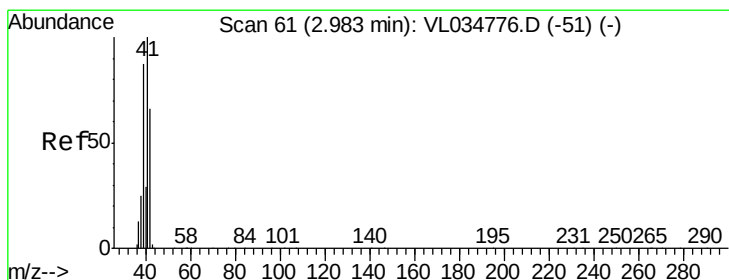
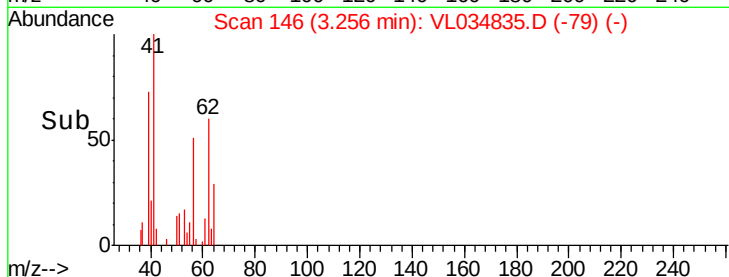
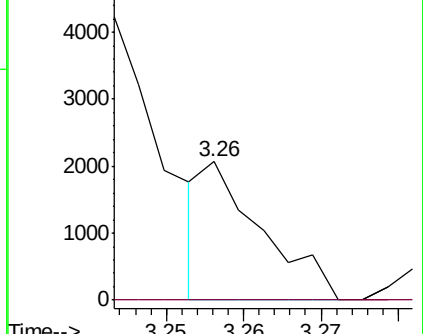
64 100

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: 1.008 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL034835.D

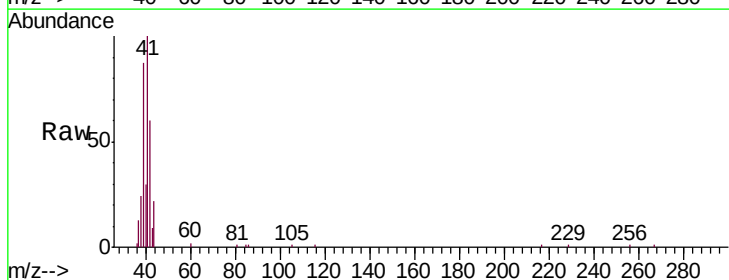
Acq: 7 Mar 2020 4:11

Tgt Ion: 41 Resp: 39989

Ion Ratio Lower Upper

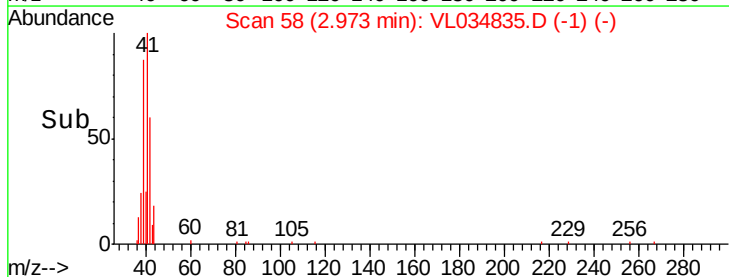
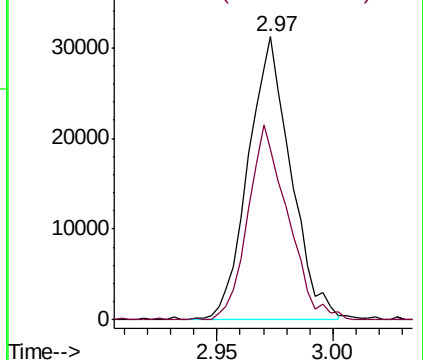
41 100

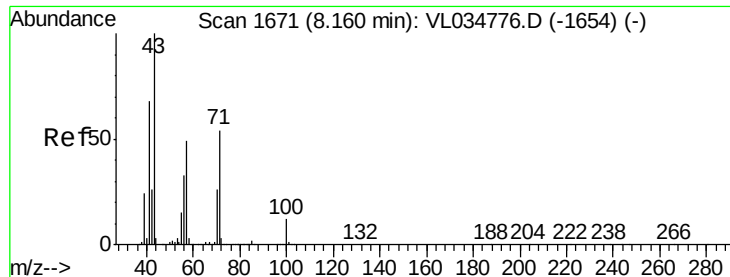
42 64.4 55.6 83.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

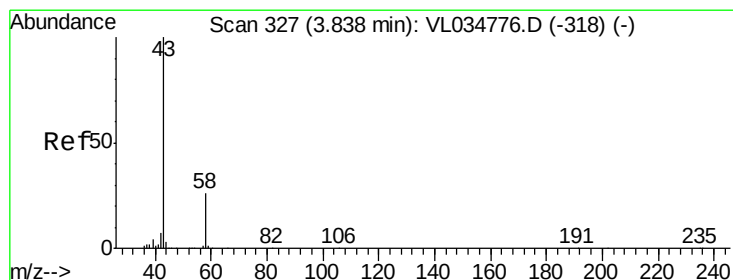
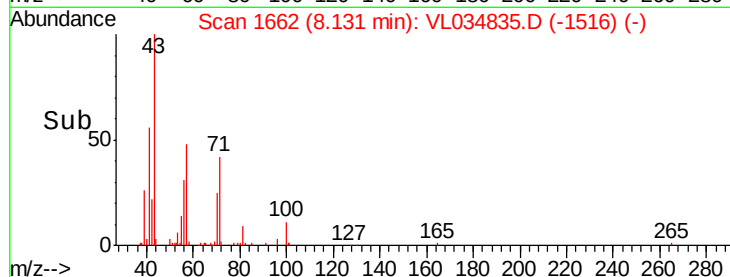
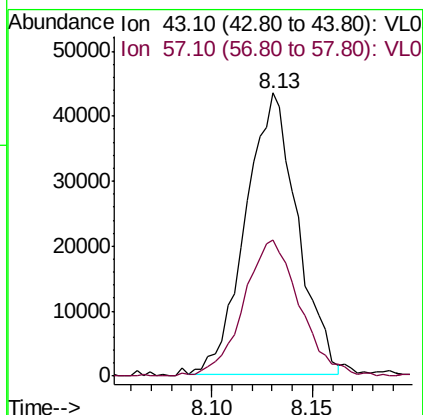
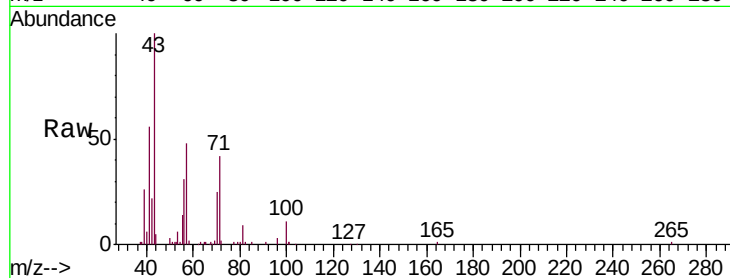




#10
Heptane
Concen: 0.774 ppbv
RT: 8.13 min Scan# 1662
Delta R.T. -0.03 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

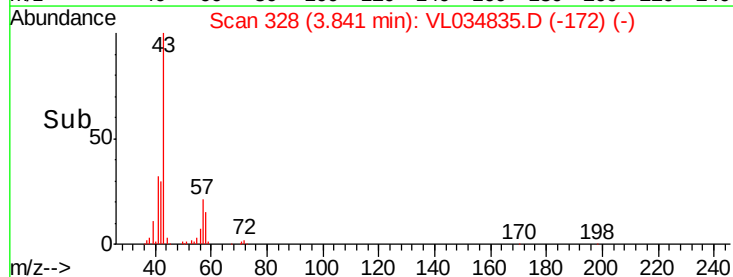
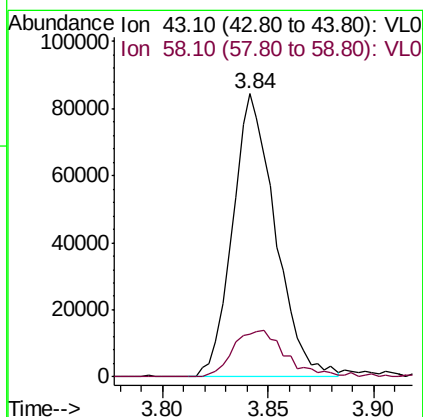
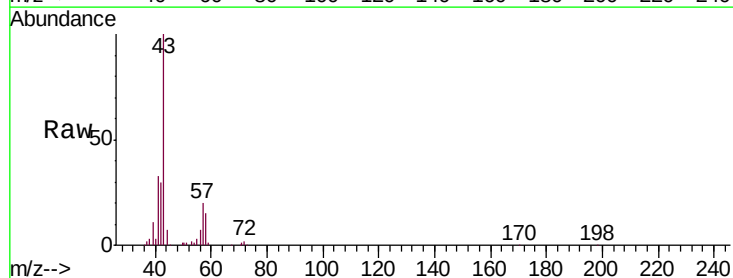
Instrument :
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ClientSampleId :
SS-2-4DL2DUP

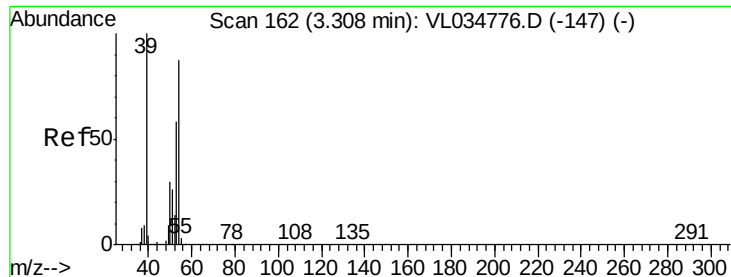
Tgt Ion: 43 Resp: 78011
Ion Ratio Lower Upper
43 100
57 52.7 40.5 60.7



#15
Acetone
Concen: 1.118 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

Tgt Ion: 43 Resp: 118474
Ion Ratio Lower Upper
43 100
58 20.6 21.0 31.6#

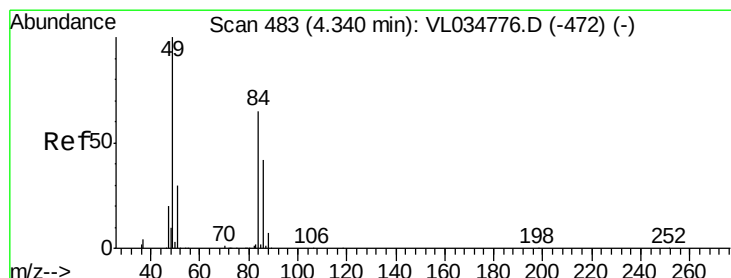
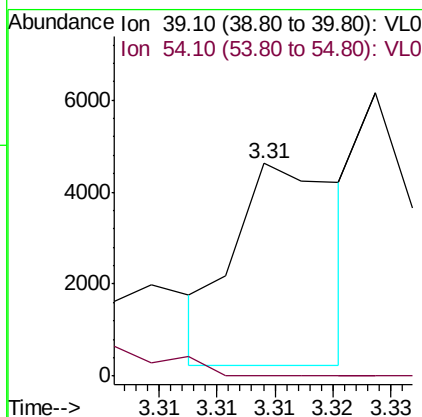
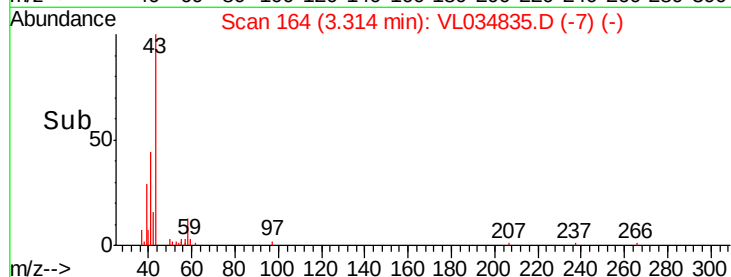
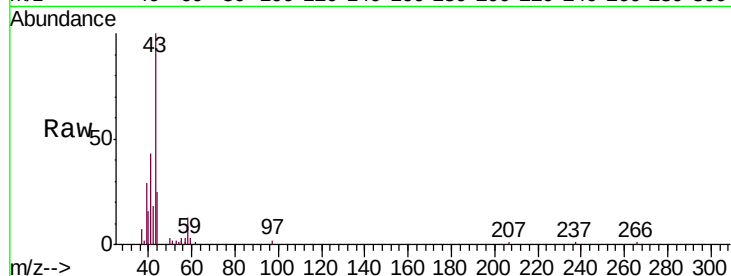




#16
1,3-Butadiene
Concen: 0.058 ppbv
RT: 3.31 min Scan# 164
Delta R.T. 0.01 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

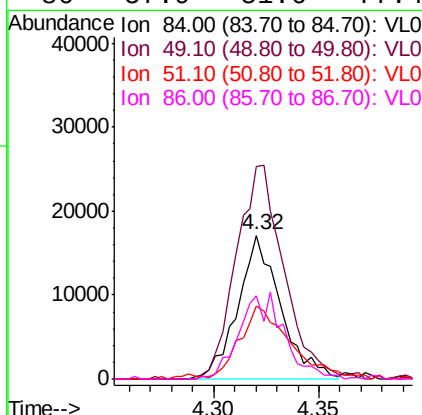
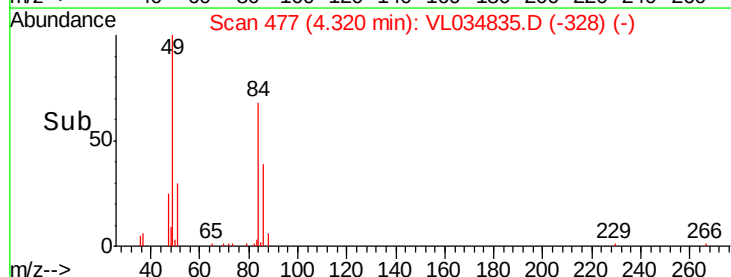
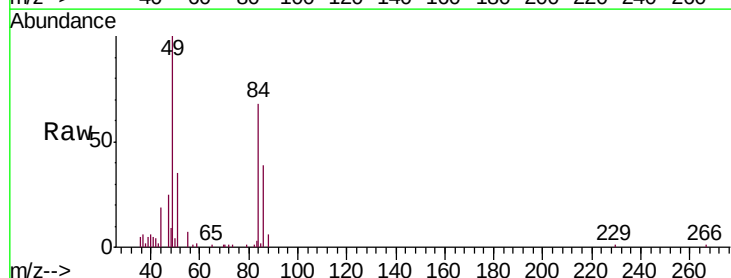
Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2DUP

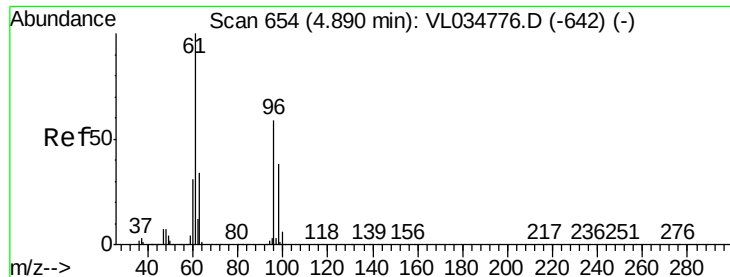
Tgt Ion: 39 Resp: 2759
Ion Ratio Lower Upper
39 100
54 9.7 64.2 96.2#



#20
Methylene Chloride
Concen: 0.637 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.02 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

Tgt Ion: 84 Resp: 24090
Ion Ratio Lower Upper
84 100
49 154.4 123.2 184.8
51 47.2 37.4 56.2
86 57.9 51.6 77.4





#22

trans-1,2-Dichloroethene

Concen: 0.083 ppbv

RT: 4.87 min Scan# 648

Delta R.T. -0.02 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2DUP

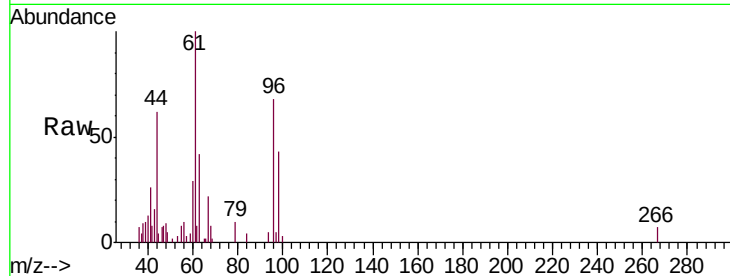
Tgt Ion: 96 Resp: 3197

Ion Ratio Lower Upper

96 100

61 128.5 135.2 202.8#

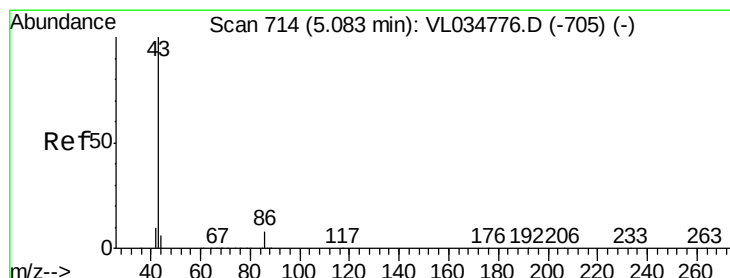
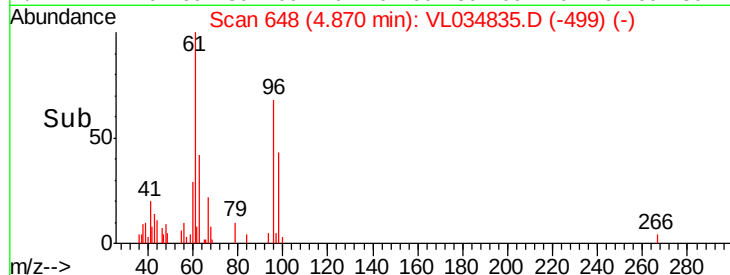
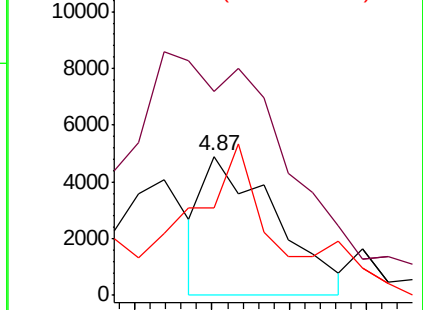
98 28.9 50.8 76.2#



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: 0.597 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.05 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

Tgt Ion: 43 Resp: 84877

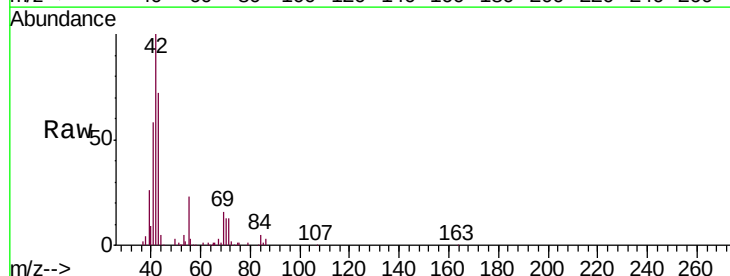
Ion Ratio Lower Upper

43 100

86 3.6 5.9 8.9#

42 137.9 8.2 12.2#

44 1.0 4.5 6.7#

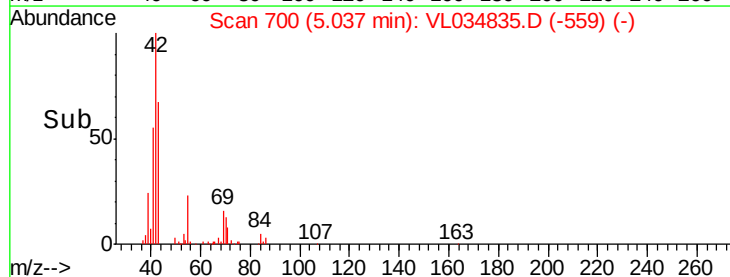
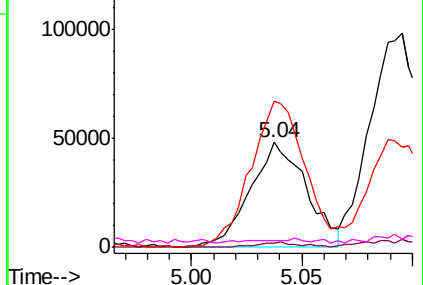


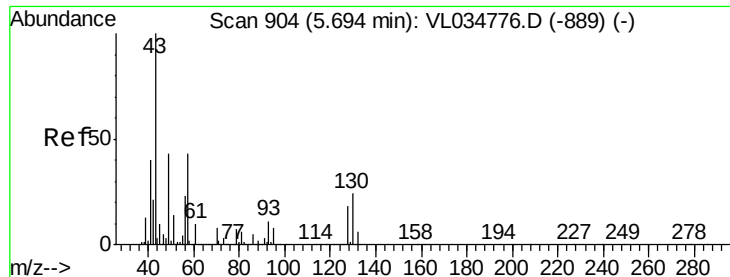
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

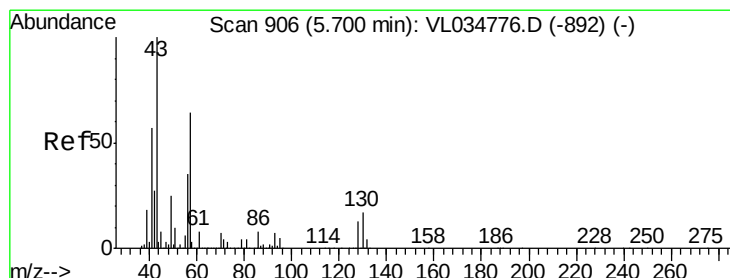
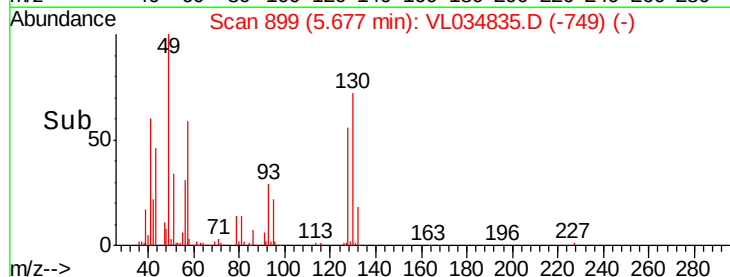
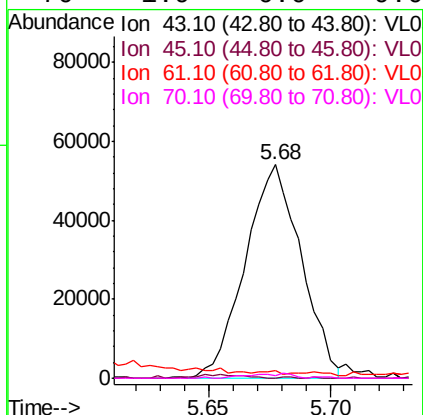
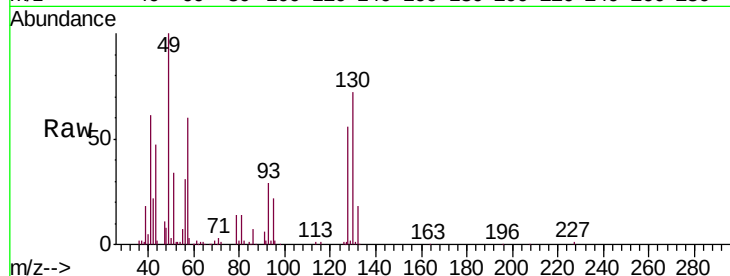




#25
Ethyl Acetate
Concen: 0.470 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

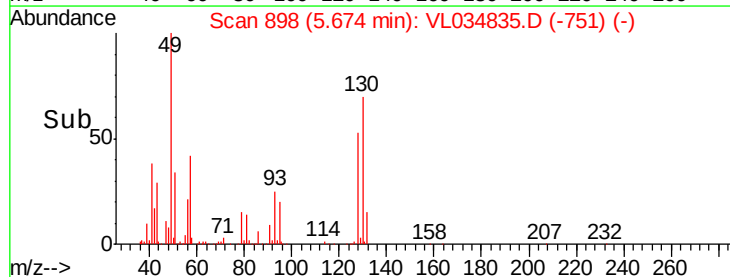
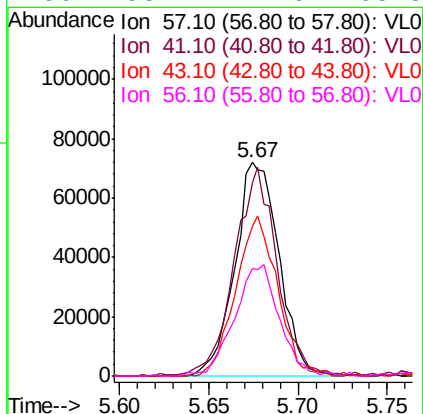
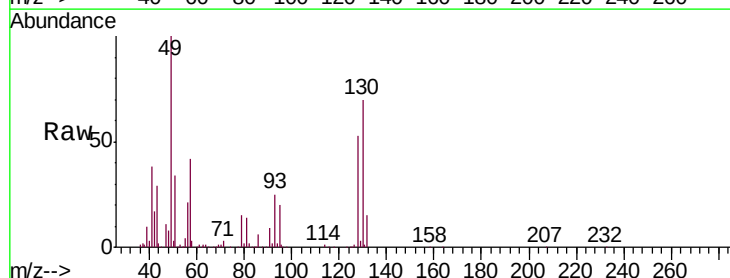
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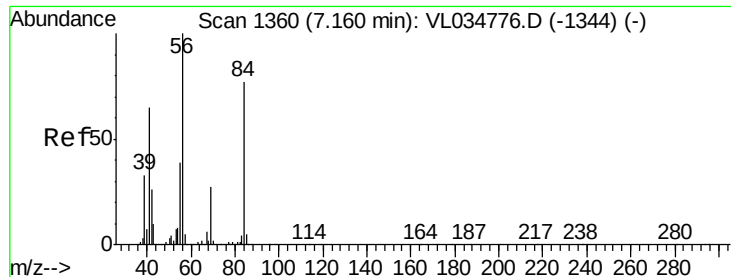
Tgt Ion:	43	Resp:	86072
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.2	12.4#
61	0.0	7.5	11.3#
70	1.9	6.0	9.0#



#26
Hexane
Concen: 1.549 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.03 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

Tgt Ion:	57	Resp:	123926
Ion	Ratio	Lower	Upper
57	100		
41	95.9	72.0	108.0
43	71.4	179.1	268.7#
56	53.2	42.6	63.8

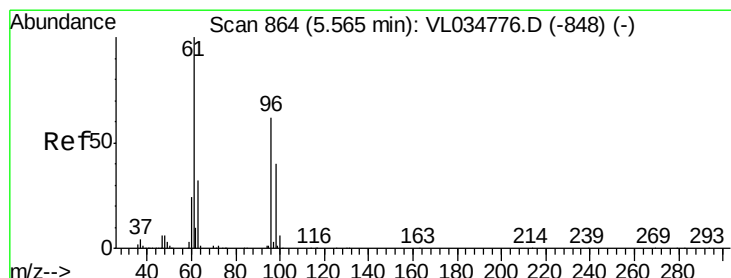
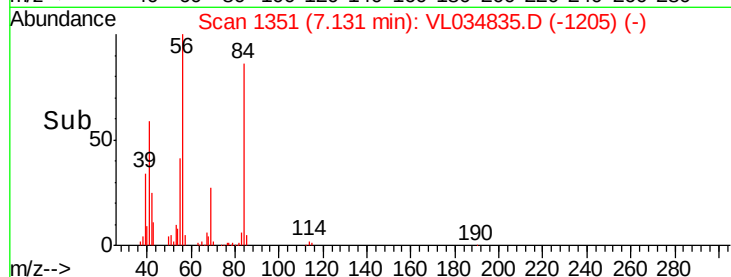
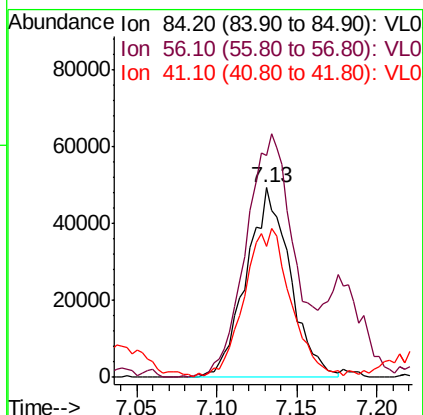
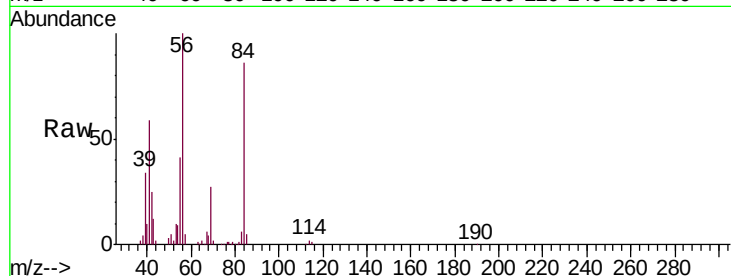




#30
Cyclohexane
Concen: 1.512 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.03 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

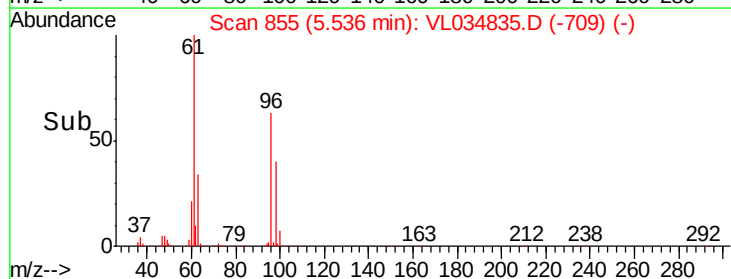
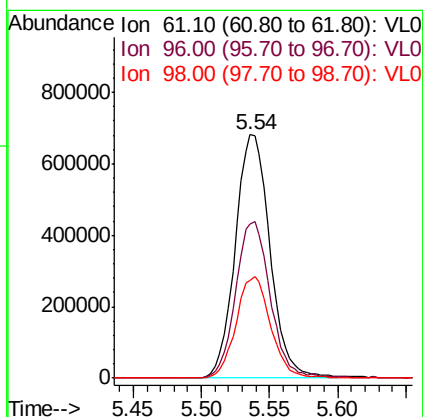
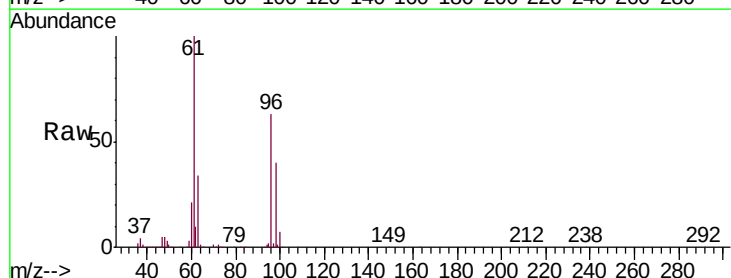
Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2DUP

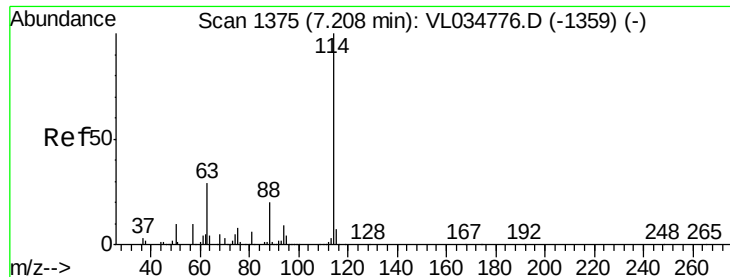
Tgt Ion: 84 Resp: 92523
Ion Ratio Lower Upper
84 100
56 185.6 113.2 169.8#
41 81.3 70.2 105.4



#31
cis-1,2-Dichloroethene
Concen: 14.706 ppbv
RT: 5.54 min Scan# 855
Delta R.T. -0.03 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

Tgt Ion: 61 Resp: 1206613
Ion Ratio Lower Upper
61 100
96 63.4 49.7 74.5
98 40.0 31.9 47.9

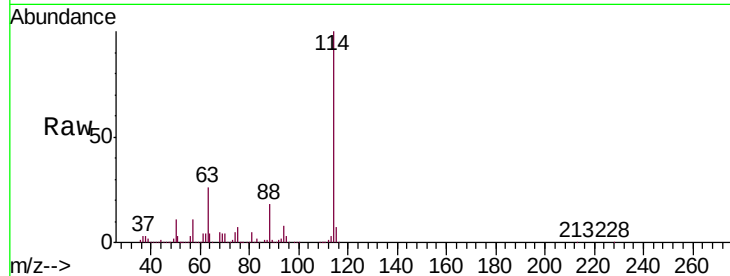




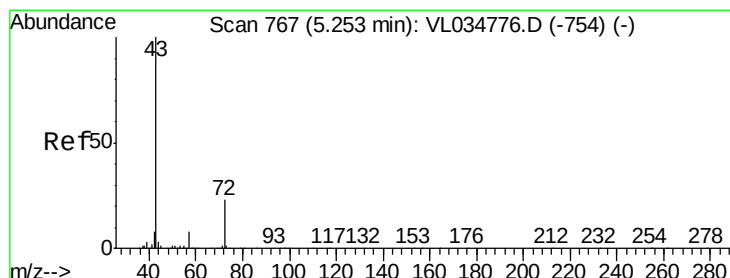
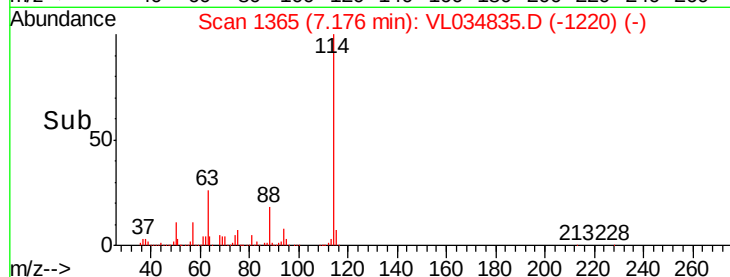
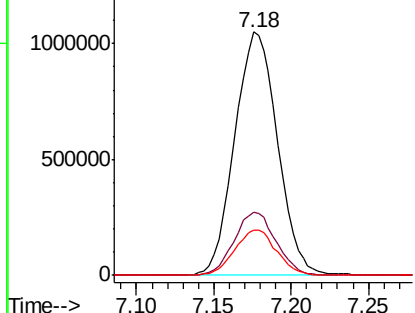
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.03 min
 Lab File: VL034835.D
 Acq: 7 Mar 2020 4:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-4DL2DUP

Tgt Ion:114 Resp: 2017740
 Ion Ratio Lower Upper
 114 100
 63 25.8 23.6 35.4
 88 18.6 15.8 23.8

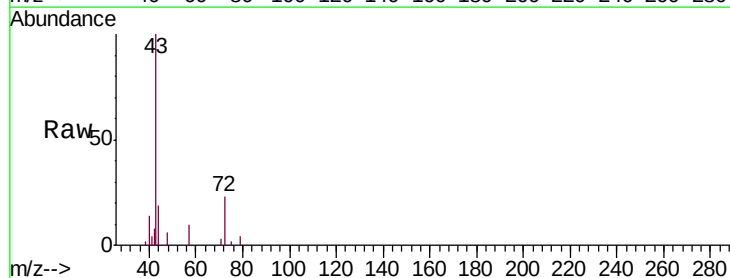


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

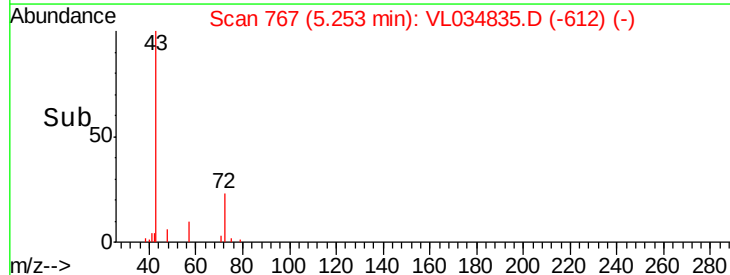
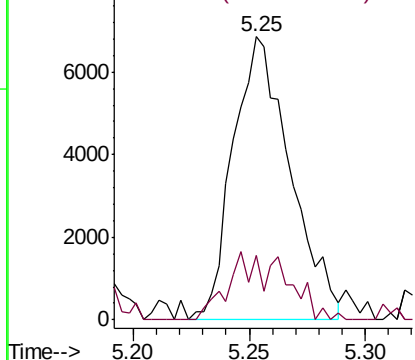


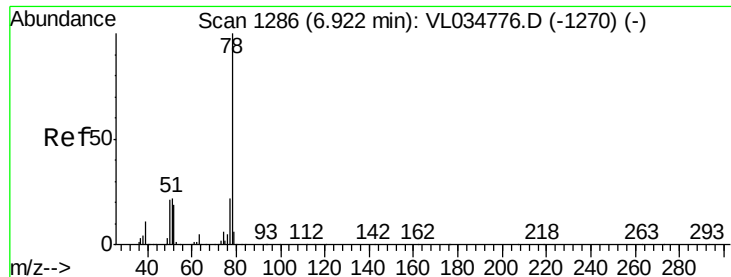
#34
 2-Butanone
 Concen: 0.090 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. -0.00 min
 Lab File: VL034835.D
 Acq: 7 Mar 2020 4:11

Tgt Ion: 43 Resp: 11778
 Ion Ratio Lower Upper
 43 100
 72 23.4 17.5 26.3



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





#36

Benzene

Concen: 0.649 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.03 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2DUP

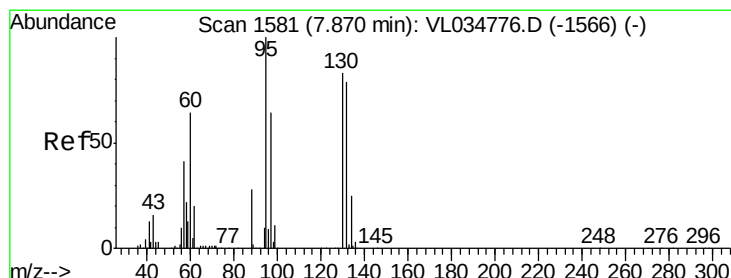
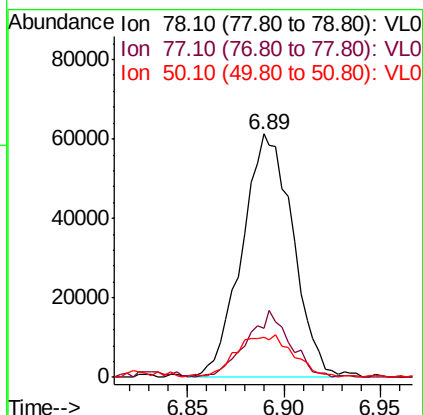
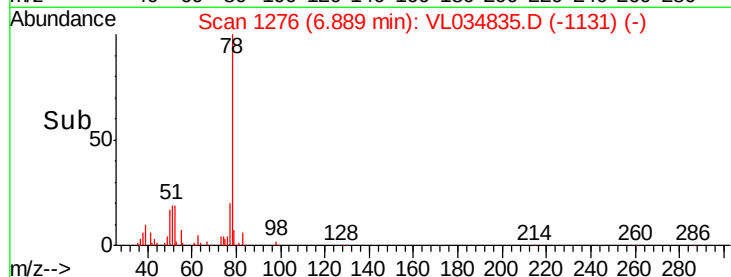
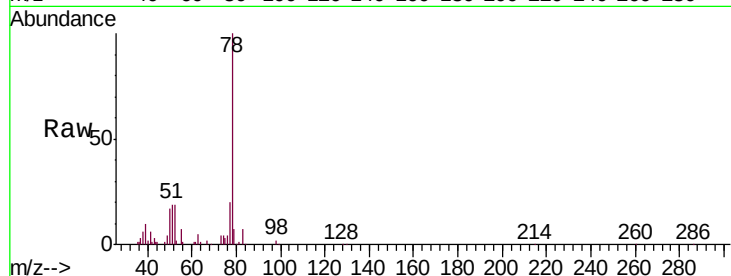
Tgt Ion: 78 Resp: 111946

Ion Ratio Lower Upper

78 100

77 19.4 18.0 27.0

50 16.3 16.9 25.3#



#38

Trichloroethene

Concen: 1.763 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.03 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

Tgt Ion: 130 Resp: 118503

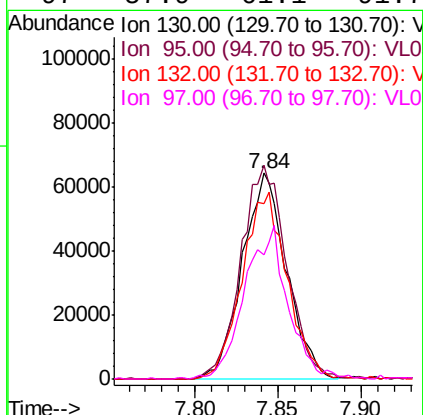
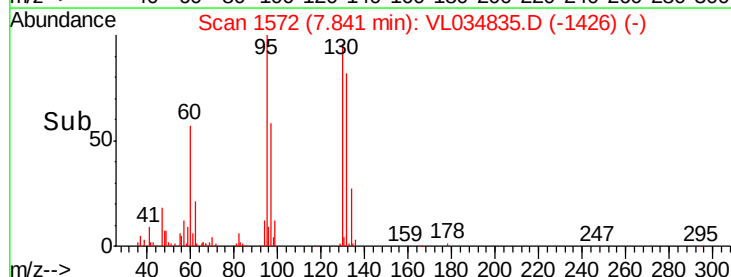
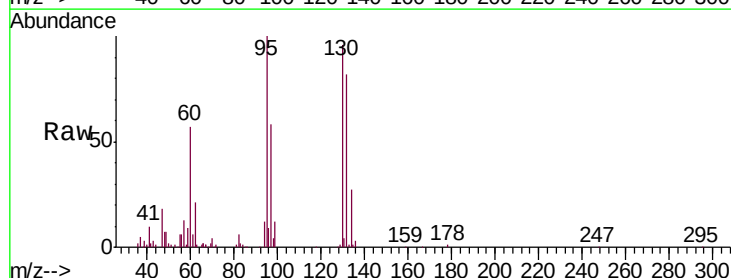
Ion Ratio Lower Upper

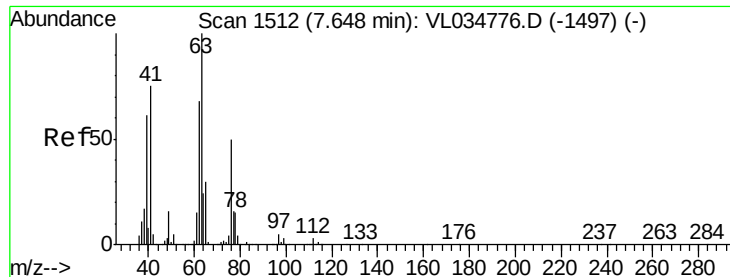
130 100

95 100.1 95.8 143.8

132 83.2 76.1 114.1

97 57.9 61.1 91.7#





#39

1,2-Dichloropropane

Concen: 7.362 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.47 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2DUP

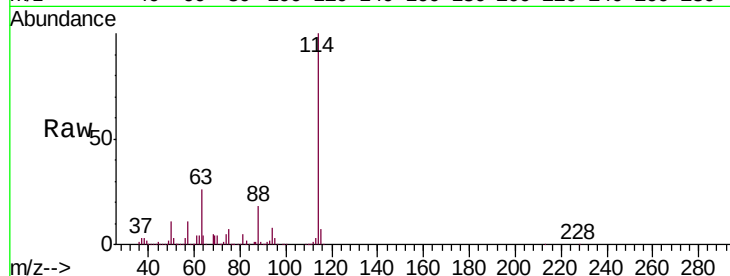
Tgt Ion: 63 Resp: 512225

Ion Ratio Lower Upper

63 100

41 0.0 60.3 90.5#

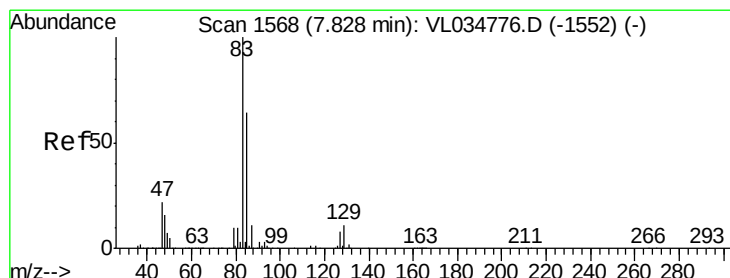
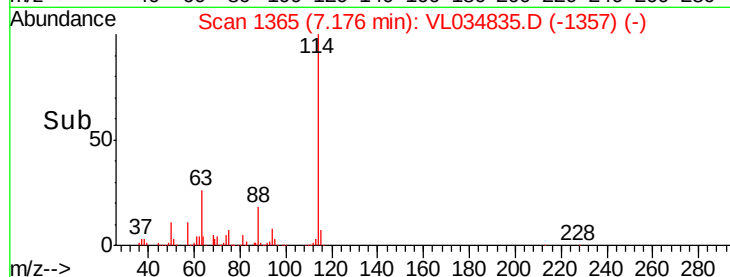
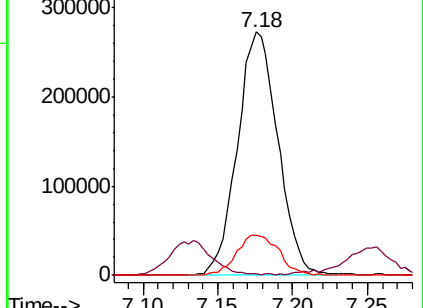
62 16.6 54.5 81.7#



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



#42

Bromodichloromethane

Concen: 0.088 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. -0.03 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

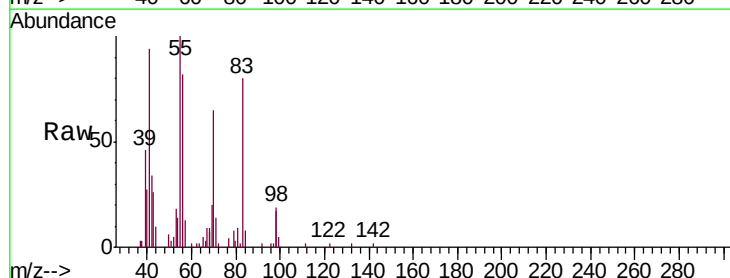
Tgt Ion: 83 Resp: 13117

Ion Ratio Lower Upper

83 100

85 0.0 50.8 76.2#

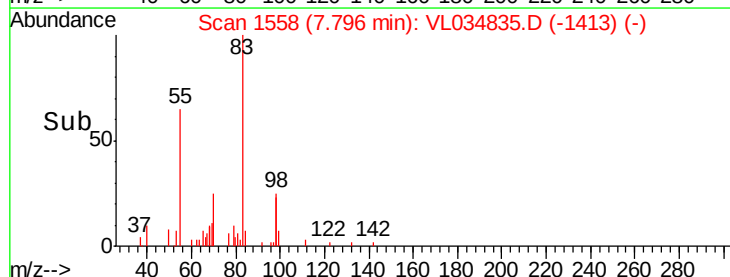
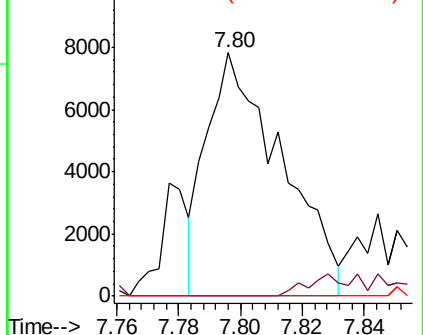
127 0.0 6.5 9.7#

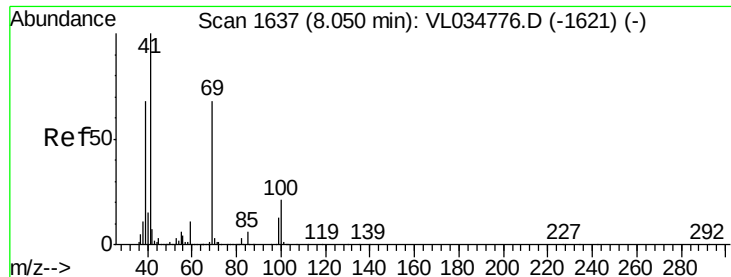


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.040 ppbv

RT: 7.99 min Scan# 1619

Delta R.T. -0.06 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2DUP

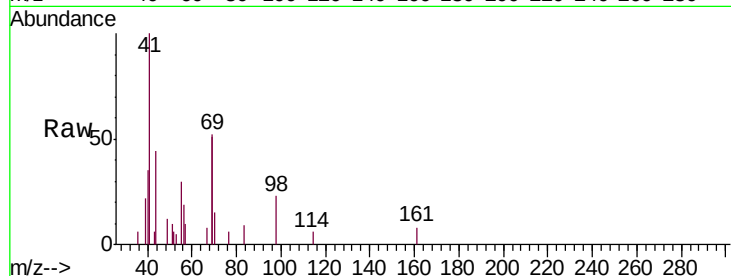
Tgt Ion: 69 Resp: 2900

Ion Ratio Lower Upper

69 100

41 0.0 121.6 182.4#

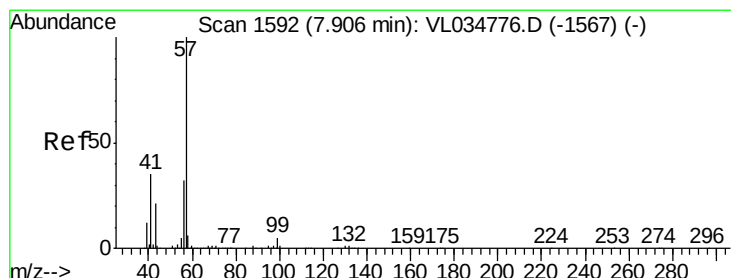
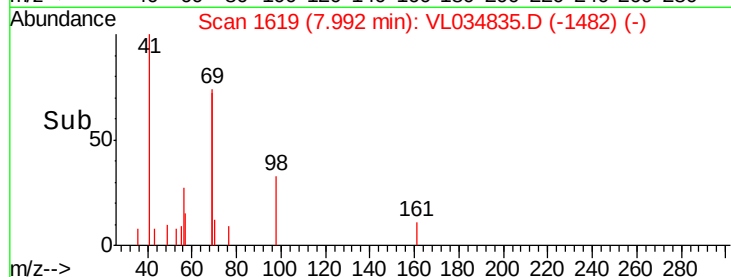
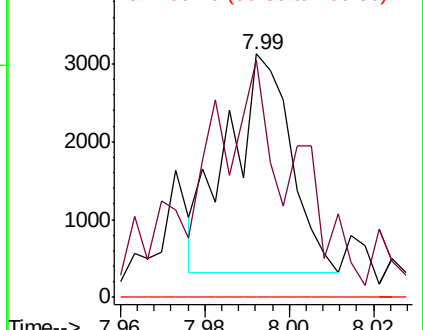
100 0.0 23.8 35.8#



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.429 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.04 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

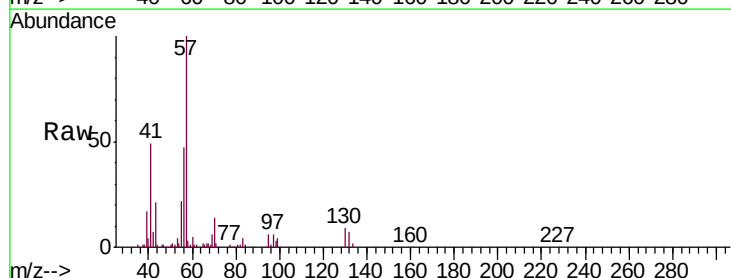
Tgt Ion: 57 Resp: 129280

Ion Ratio Lower Upper

57 100

41 80.7 27.4 41.0#

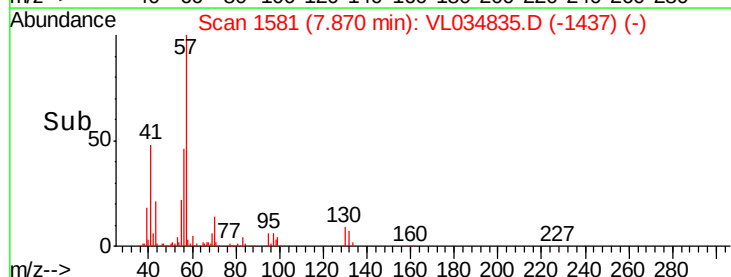
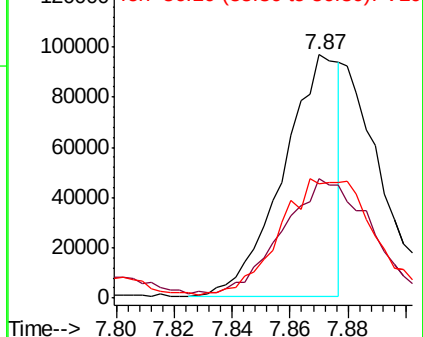
56 83.4 25.0 37.6#

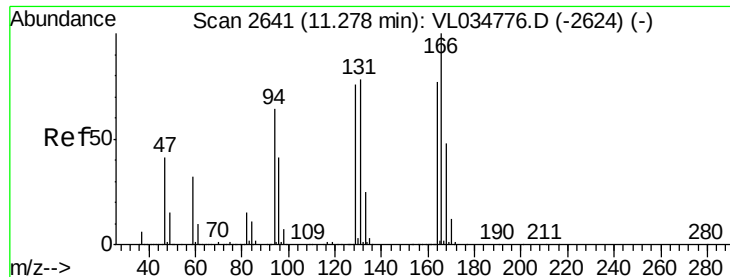


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#52

Tetrachloroethene

Concen: 0.614 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.03 min

Lab File: VL034835.D

Acq: 7 Mar 2020 4:11

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL2DUP

Tgt Ion:164 Resp: 39086

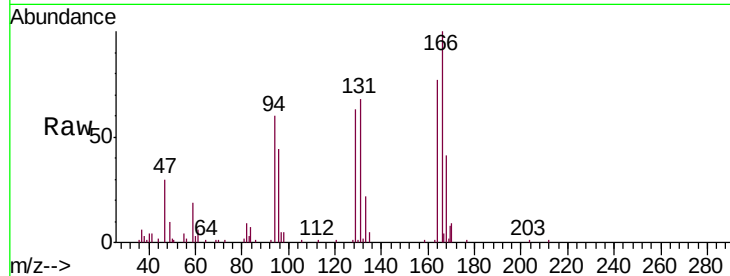
Ion Ratio Lower Upper

164 100

166 128.4 103.3 154.9

129 82.2 79.0 118.4

131 88.2 81.0 121.4

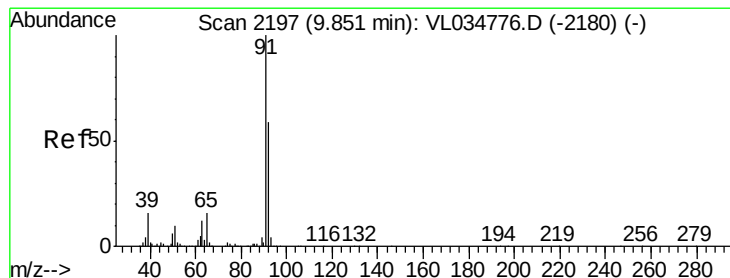
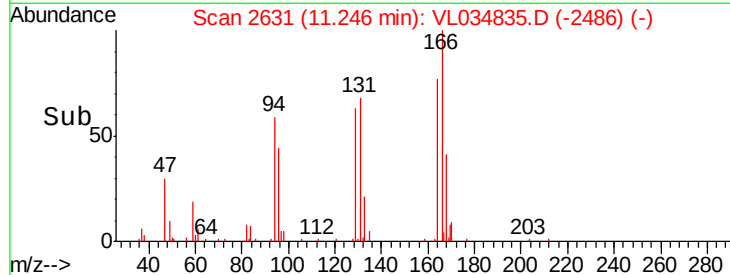
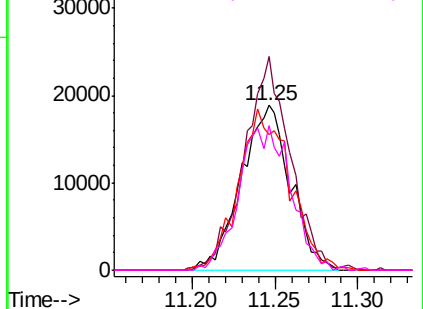


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.095 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.04 min

Lab File: VL034835.D

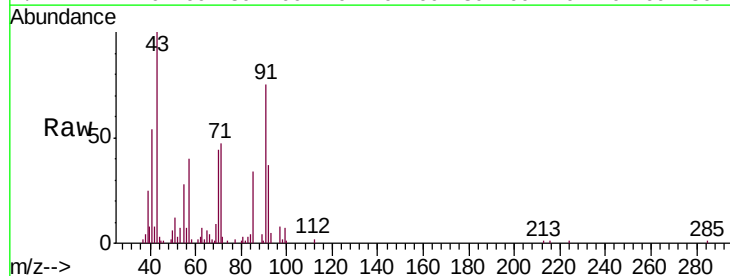
Acq: 7 Mar 2020 4:11

Tgt Ion: 91 Resp: 17386

Ion Ratio Lower Upper

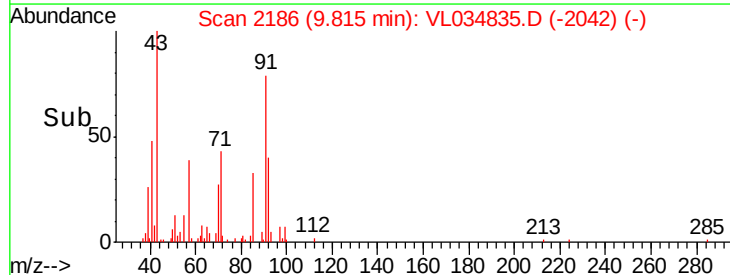
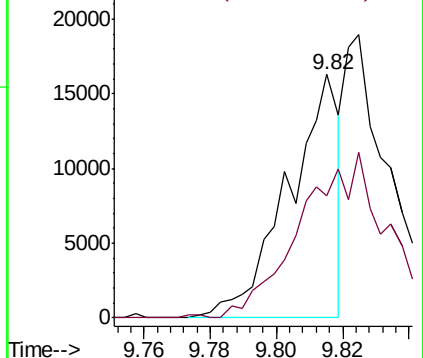
91 100

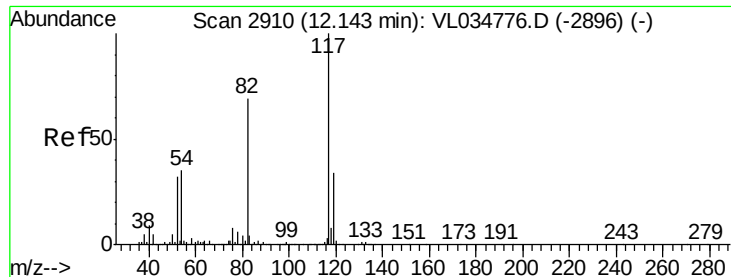
92 0.0 48.2 72.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

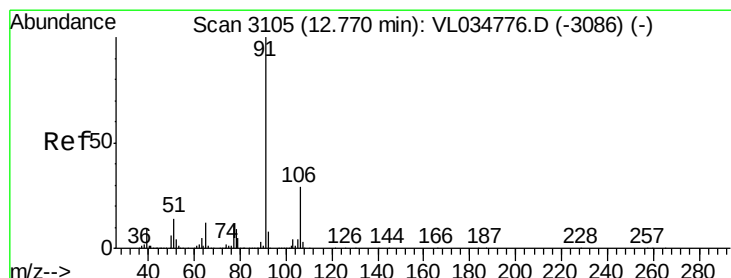
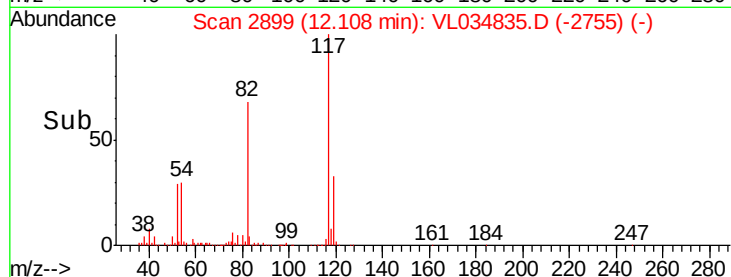
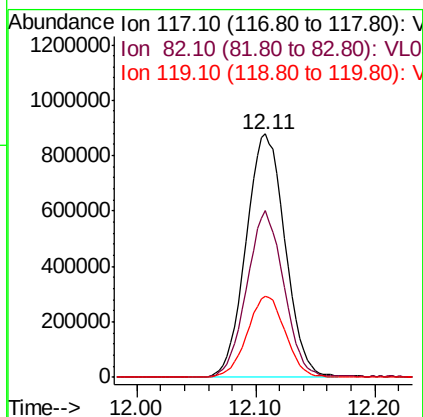
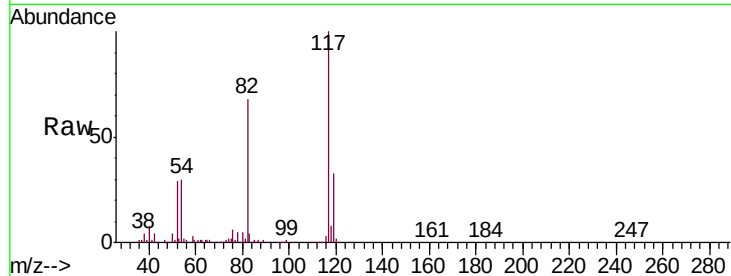




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.04 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

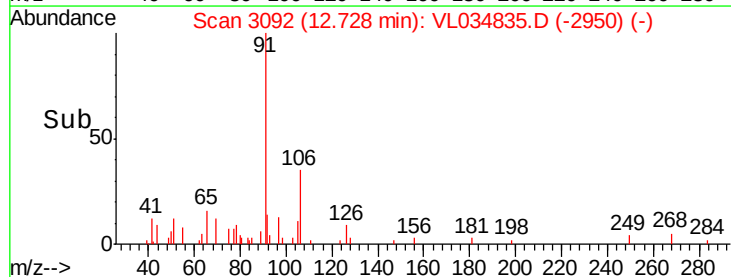
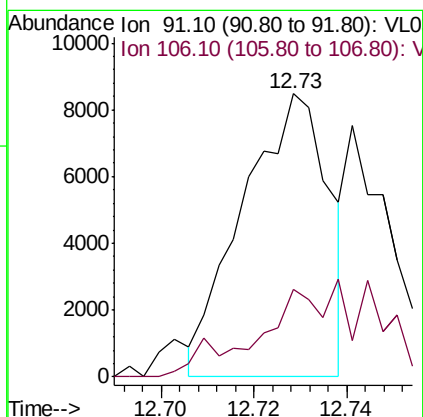
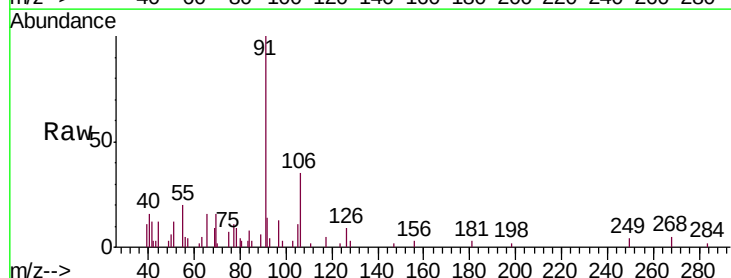
Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2DUP

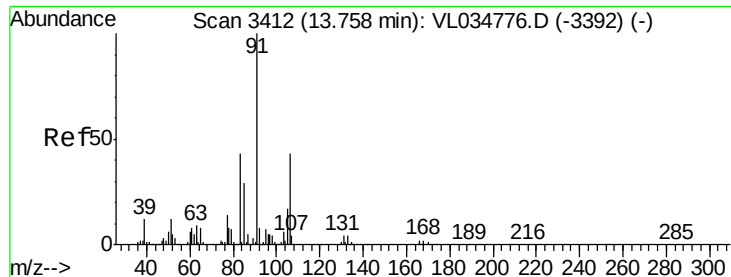
Tgt Ion: 117 Resp: 1994162
Ion Ratio Lower Upper
117 100
82 65.2 53.9 80.9
119 32.7 25.0 37.4



#58
Ethyl Benzene
Concen: 0.044 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. -0.04 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

Tgt Ion: 91 Resp: 10897
Ion Ratio Lower Upper
91 100
106 29.2 22.8 34.2

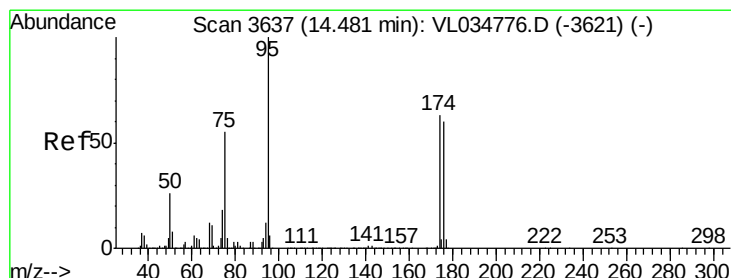
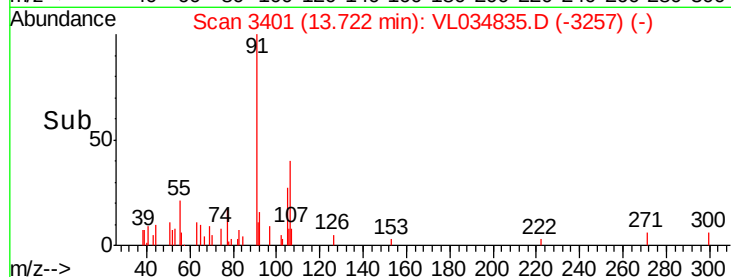
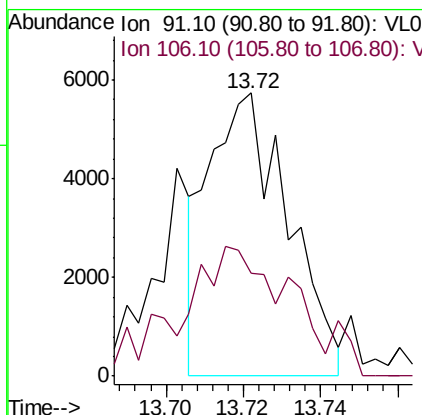
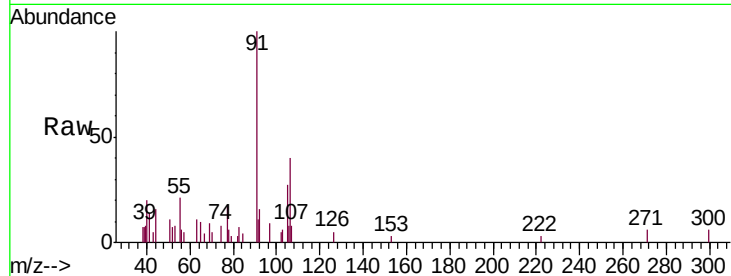




#60
o-Xylene
Concen: 0.038 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.04 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL2DUP

Tgt Ion: 91 Resp: 8143
Ion Ratio Lower Upper
91 100
106 66.8 21.7 65.1#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.388 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. -0.03 min
Lab File: VL034835.D
Acq: 7 Mar 2020 4:11

Tgt Ion: 95 Resp: 1561007
Ion Ratio Lower Upper
95 100
174 70.5 50.6 76.0
175 5.5 3.8 5.6

