

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035010.D
 Acq On : 13 May 2020 5:55
 Operator : SY/AP
 Sample : L2566-05DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

Manual Integrations
 APPROVED

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 5/13/2020 5:13:40 PM

Quant Time: May 18 10:19:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	848766	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	2013322	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1819261	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1474919	10.02	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.21	62	7466	0.138	ppbv	91
9) Propene	2.97	41	92300m	2.195	ppbv	
13) Ethanol	3.57	45	17226m	1.241	ppbv	
15) Acetone	3.82	43	1050179	9.359	ppbv	96
18) 1,1-Dichloroethene	4.25	96	38641	1.007	ppbv	97
22) trans-1,2-Dichloroethene	4.85	96	377239	9.925	ppbv	94
29) Chloroform	5.73	83	3221371	24.094	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	6621617	83.052	ppbv #	88
36) Benzene	6.89	78	89584	0.540	ppbv	95
38) Trichloroethene	7.87	130	20008314	311.143	ppbv #	86
50) 4-Methyl-2-Pentanone	8.76	43	164708	0.923	ppbv	99
52) Tetrachloroethene	11.31	164	24270050	411.196	ppbv	91
53) Toluene	9.83	91	426471	2.424	ppbv	97
58) Ethyl Benzene	12.74	91	246410	1.095	ppbv	98
59) m/p-Xylene	12.99	91	639276	3.230	ppbv #	58
60) o-Xylene	13.72	91	158070m	0.809	ppbv	
62) Isopropylbenzene	14.70	105	112748	0.387	ppbv	96

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

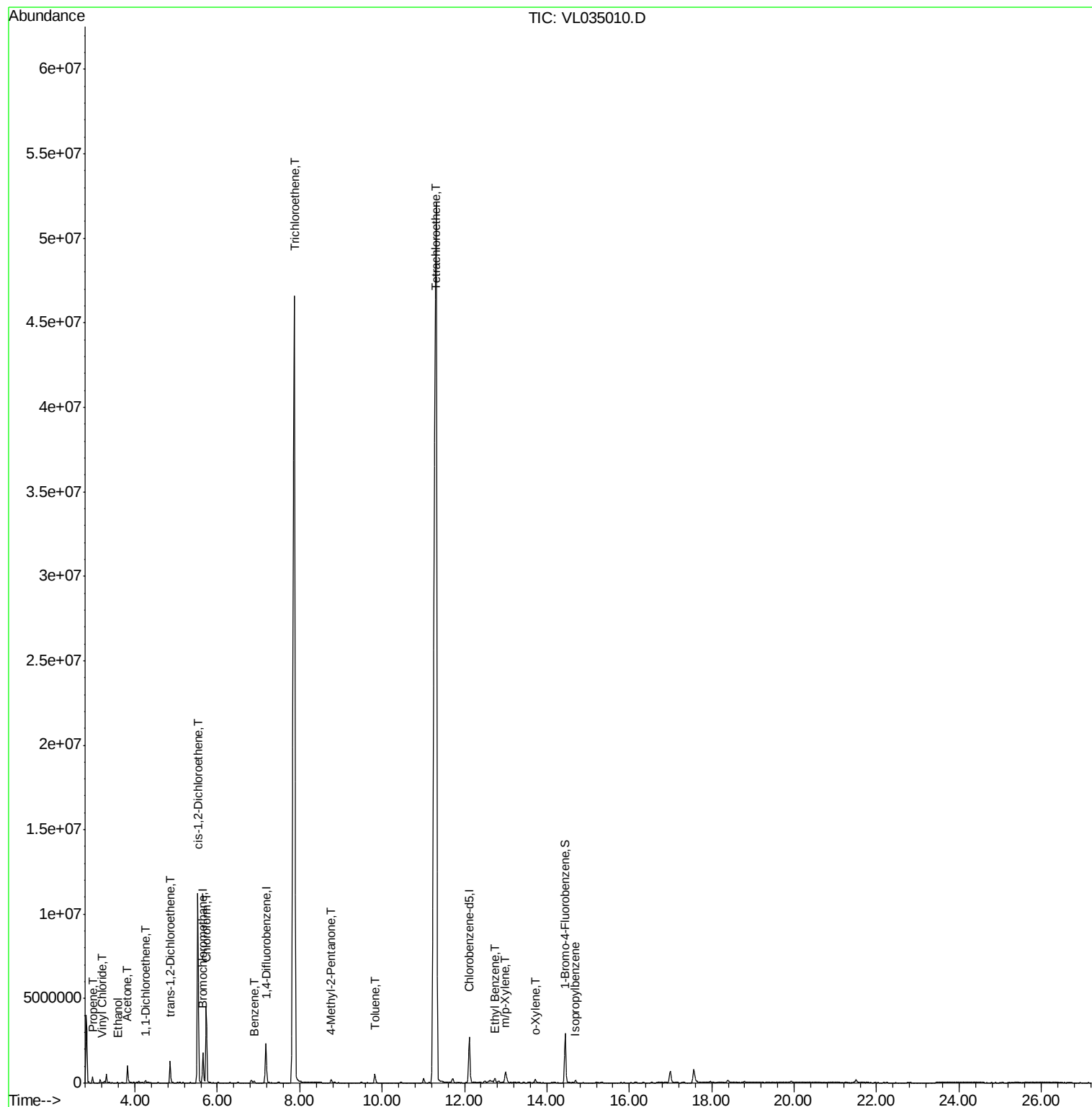
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051220\
Data File : VL035010.D
Acq On : 13 May 2020 5:55
Operator : SY/AP
Sample : L2566-05DL 40X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

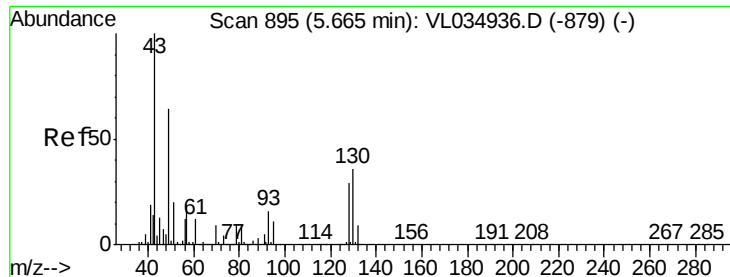
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

Manual Integrations
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Quant Time: May 18 10:19:01 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Instrument :

MSVOA_L

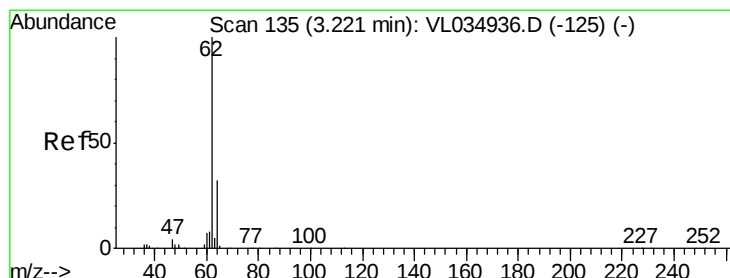
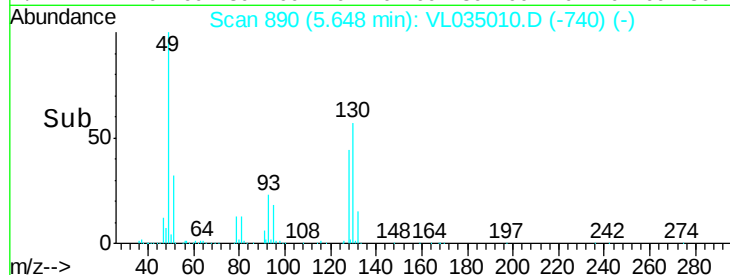
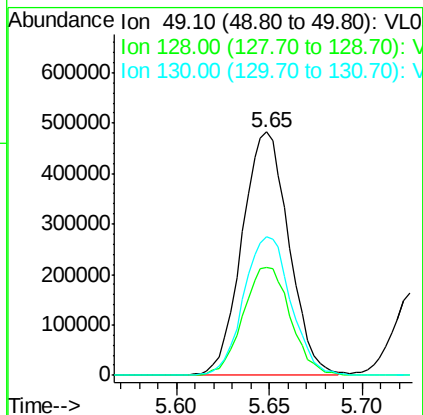
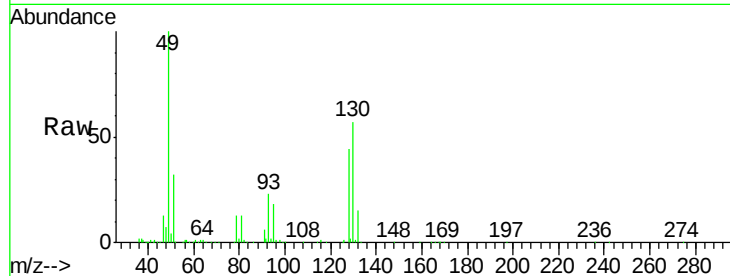
ClientSampleId :

SG-1DL

Tot Ion:	49	Resp:	848766
Ion	Ratio	Lower	Upper
49	100		
128	45.5	22.1	66.5
130	58.1	29.1	87.3

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#5

Vinyl Chloride

Concen: 0.138 ppbv

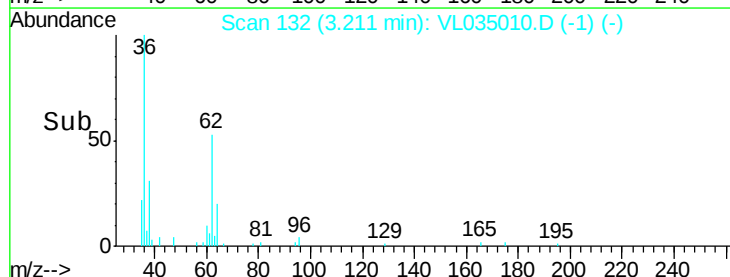
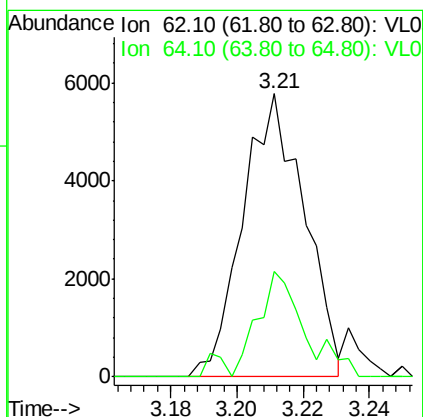
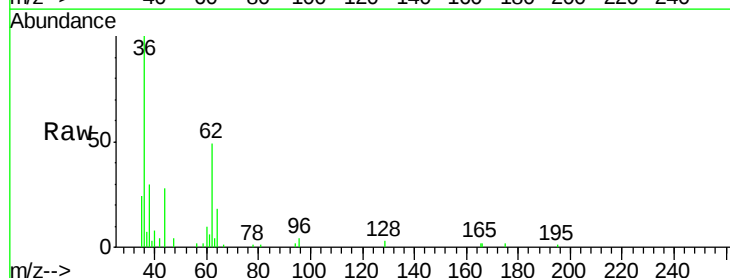
RT: 3.21 min Scan# 132

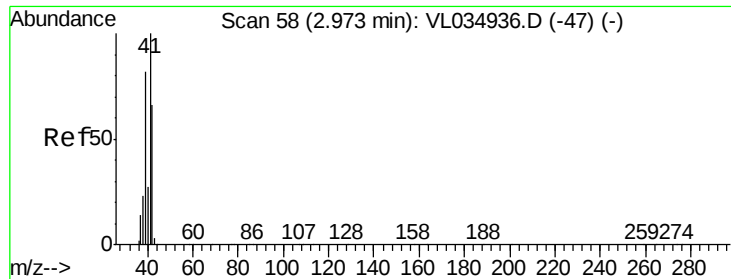
Delta R.T. -0.01 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Tgt Ion:	62	Resp:	7466
Ion	Ratio	Lower	Upper
62	100		
64	37.3	25.7	38.5





#9

Propene

Concen: 2.195 ppbv m

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

Tot Ion: 41 Resp: 92300

Ion Ratio Lower Upper

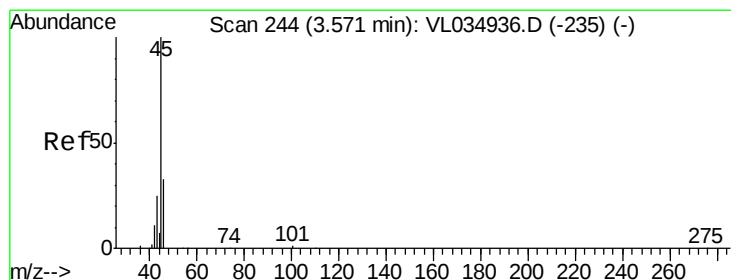
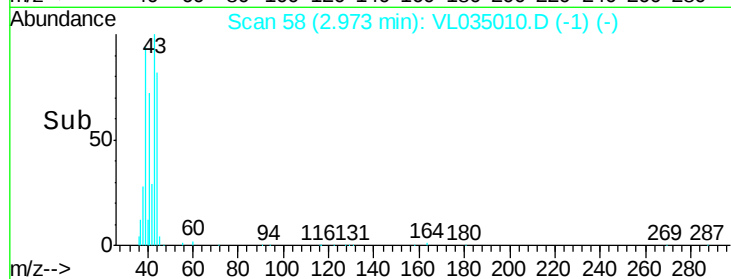
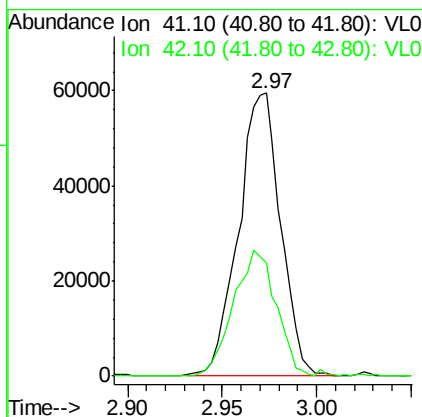
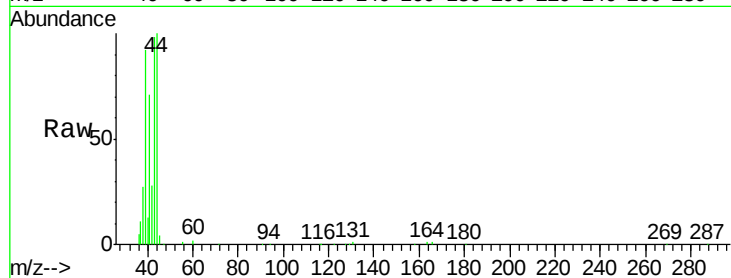
41 100

42 32.8 54.5 81.7#

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#13

Ethanol

Concen: 1.241 ppbv m

RT: 3.57 min Scan# 245

Delta R.T. 0.00 min

Lab File: VL035010.D

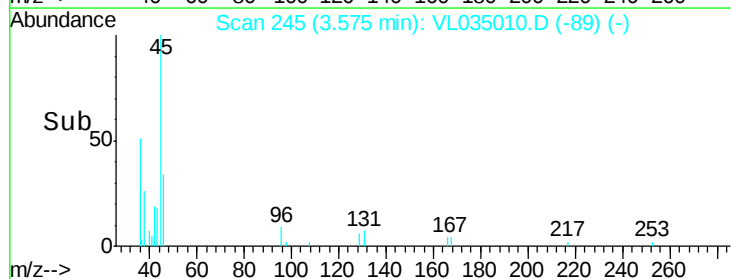
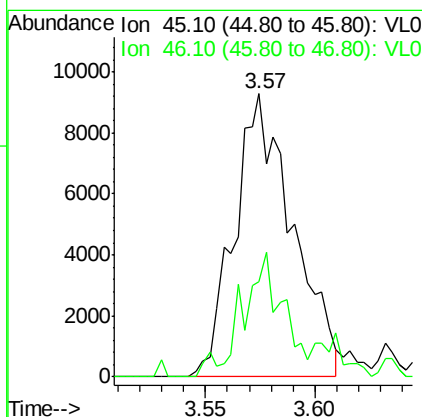
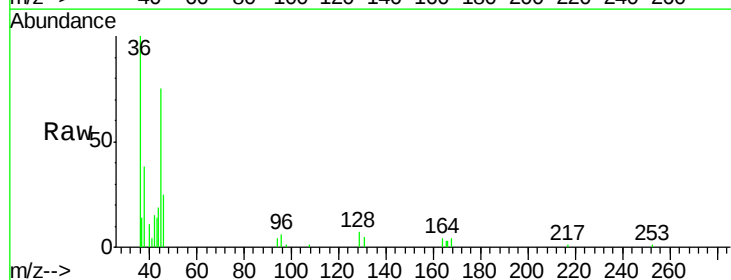
Acq: 13 May 2020 5:55

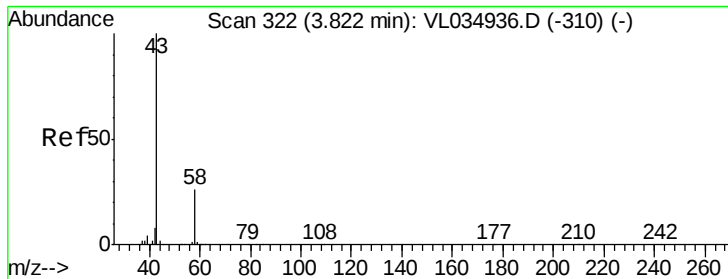
Tgt Ion: 45 Resp: 17226

Ion Ratio Lower Upper

45 100

46 0.0 14.3 57.3#





#15

Acetone

Concen: 9.359 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.01 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

Tot Ion: 43 Resp: 1050179

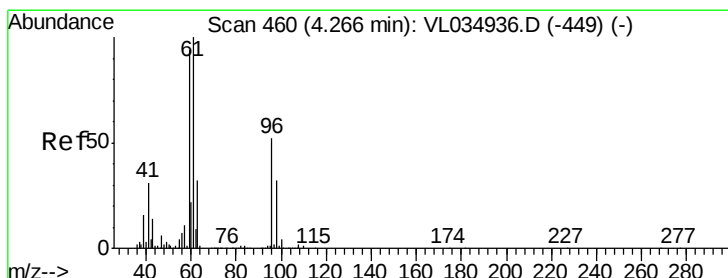
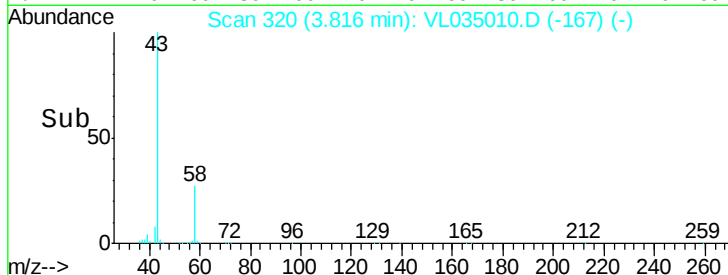
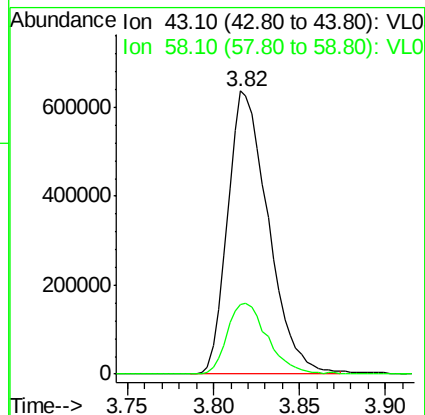
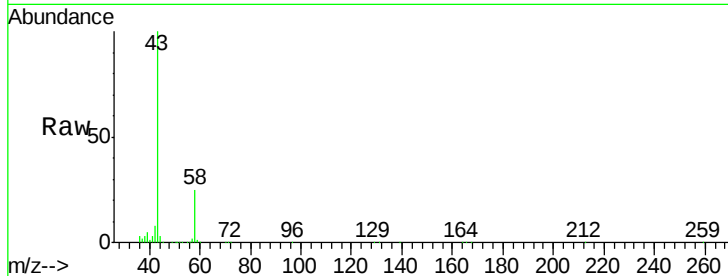
Ion Ratio Lower Upper

43 100

58 25.1 21.7 32.5

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#18

1,1-Dichloroethene

Concen: 1.007 ppbv

RT: 4.25 min Scan# 456

Delta R.T. -0.01 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

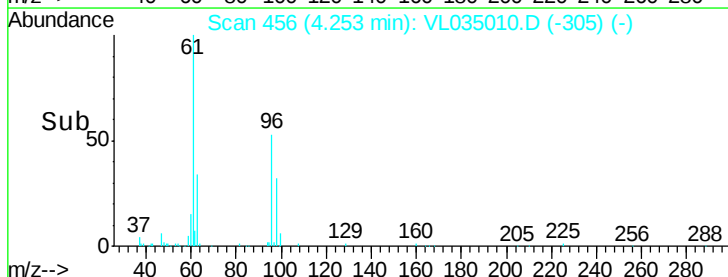
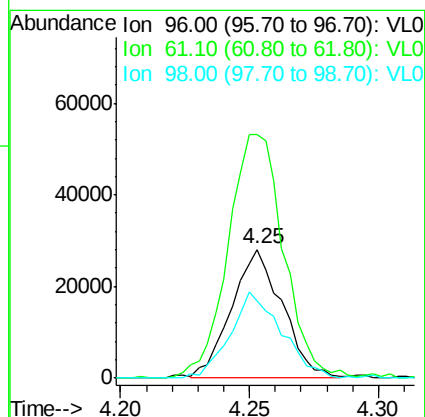
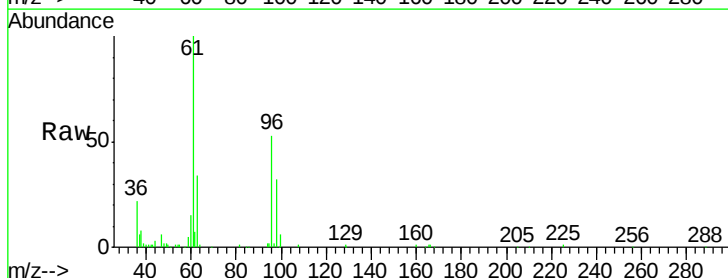
Tgt Ion: 96 Resp: 38641

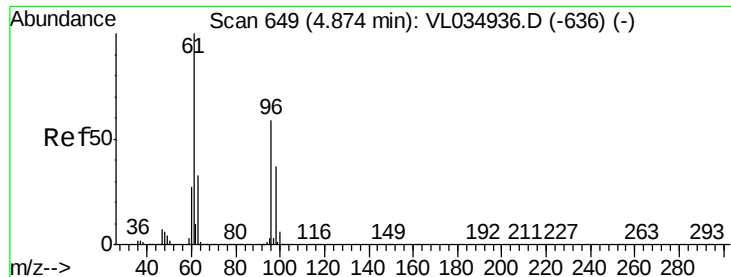
Ion Ratio Lower Upper

96 100

61 185.1 152.4 228.6

98 60.3 48.8 73.2





#22

trans-1,2-Dichloroethene

Concen: 9.925 ppbv

RT: 4.85 min Scan# 643

Delta R.T. -0.02 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Instrument :

MSVOA_L

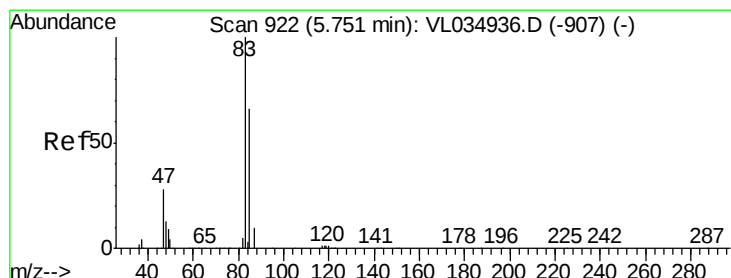
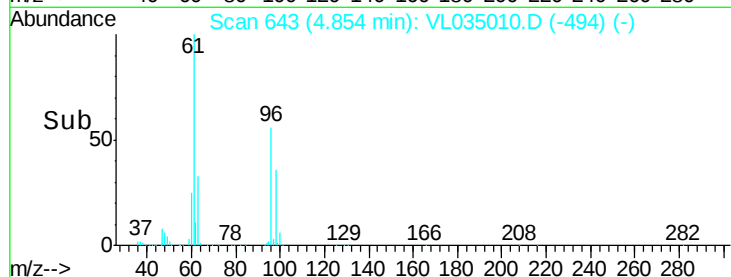
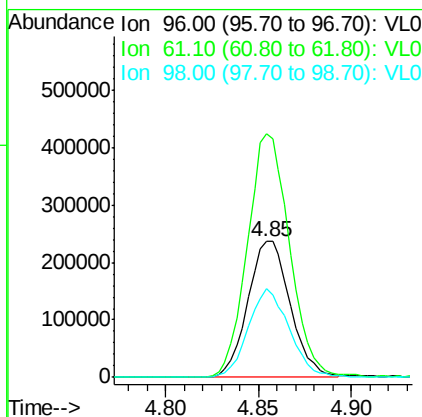
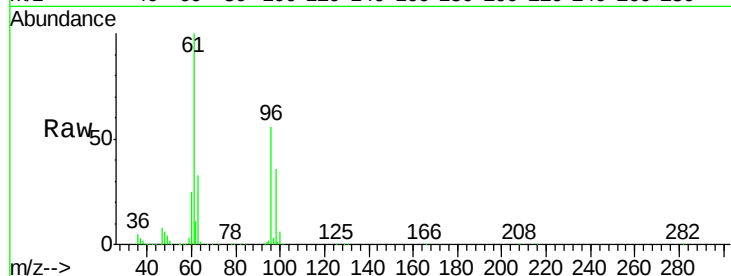
ClientSampleID :

SG-1DL

Tot Ion:	96	Resp:	377239
Ion Ratio	Lower	Upper	
96	100		
61	179.0	135.3	202.9
98	65.0	50.4	75.6

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#29

Chloroform

Concen: 24.094 ppbv

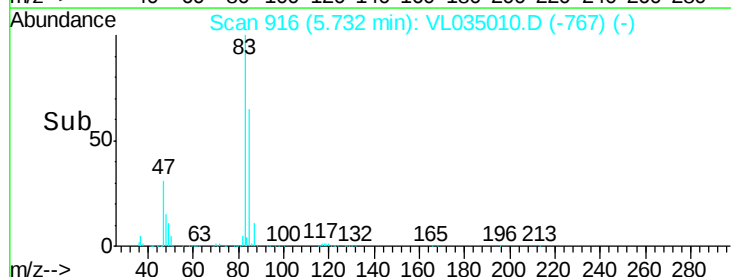
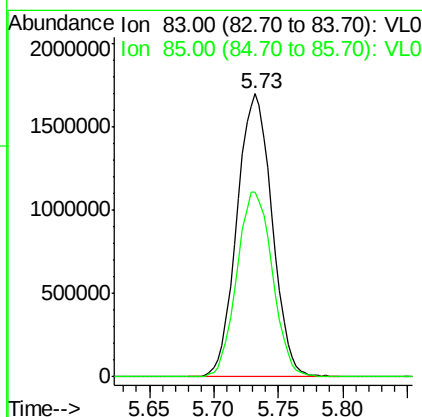
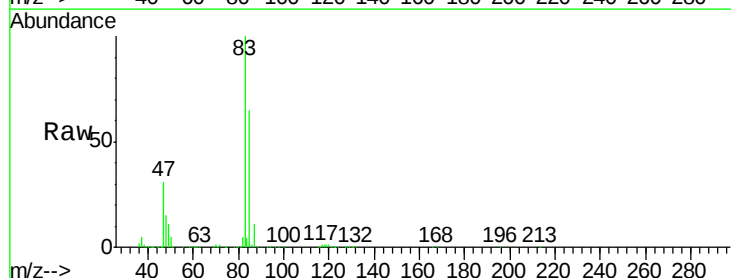
RT: 5.73 min Scan# 916

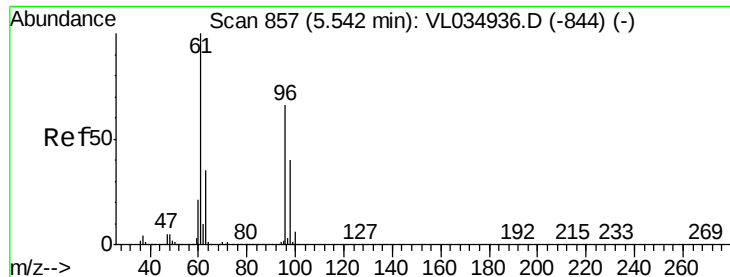
Delta R.T. -0.02 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Tgt Ion:	83	Resp:	3221371
Ion Ratio	Lower	Upper	
83	100		
85	65.3	53.0	79.6





#31

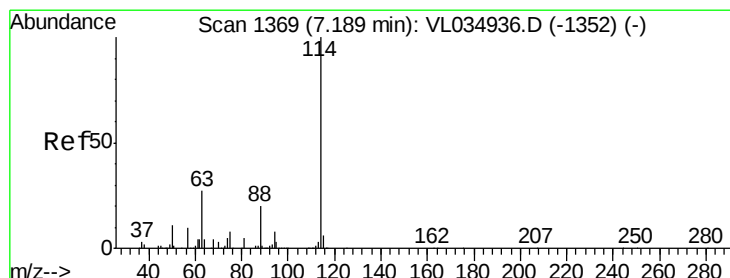
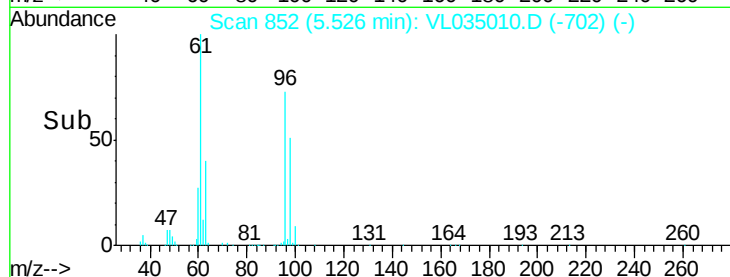
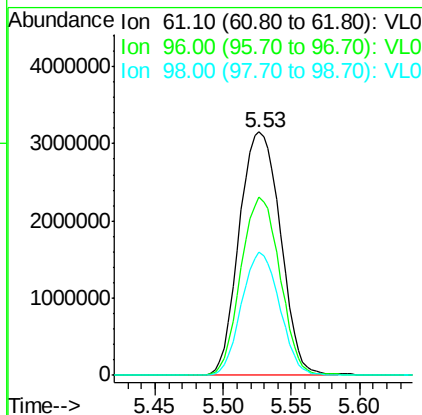
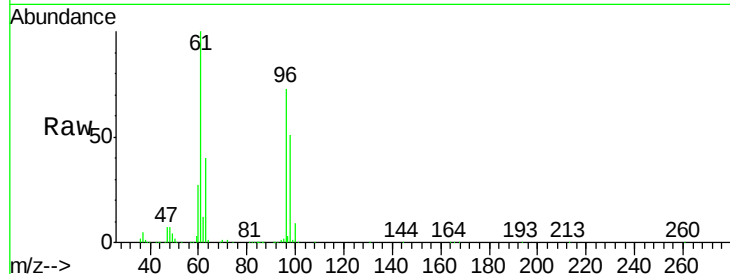
cis-1,2-Dichloroethene
Concen: 83.052 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.02 min
Lab File: VL035010.D
Acq: 13 May 2020 5:55

Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

Tot Ion	Ratio	Lower	Upper
61	100		
96	73.0	53.0	79.6
98	50.5	32.2	48.2

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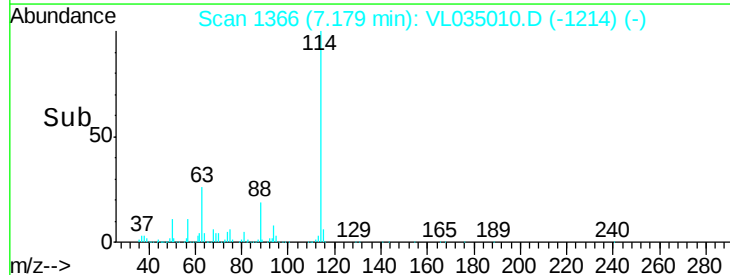
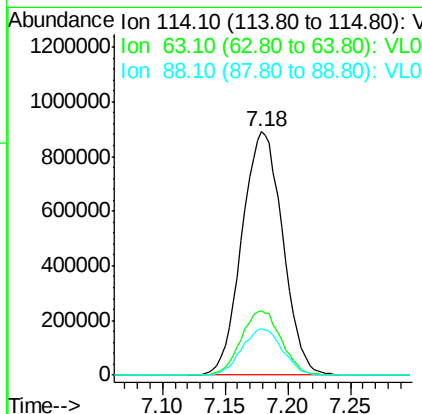
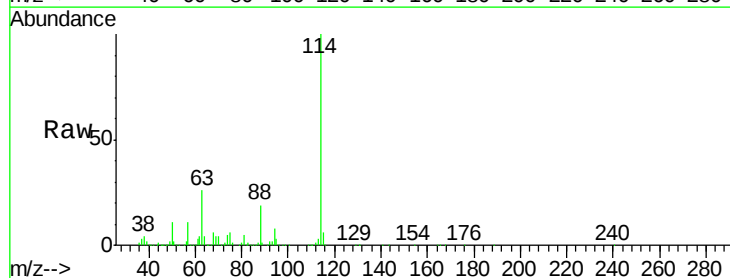
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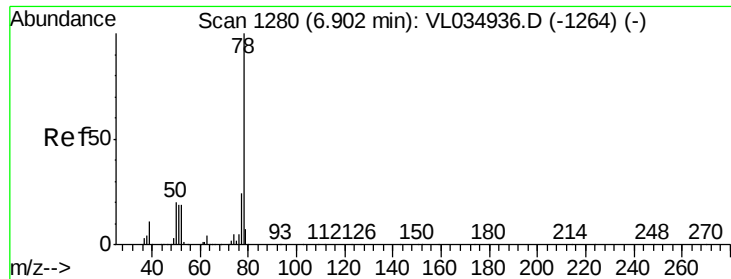


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL035010.D
Acq: 13 May 2020 5:55

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.1	22.2	33.4
88	18.8	15.5	23.3





#36

Benzene

Concen: 0.540 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Instrument :

MSVOA_L

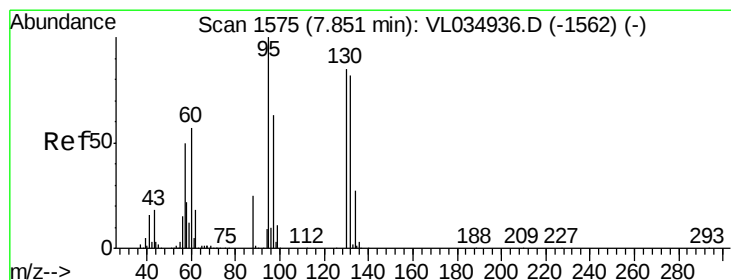
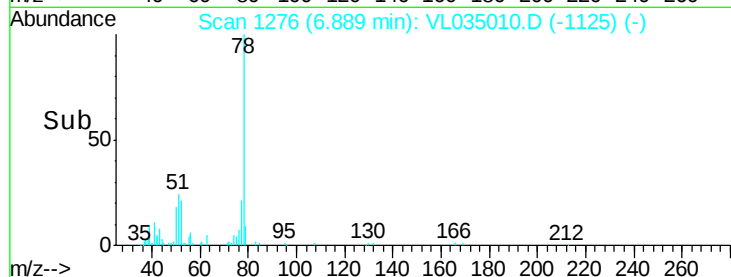
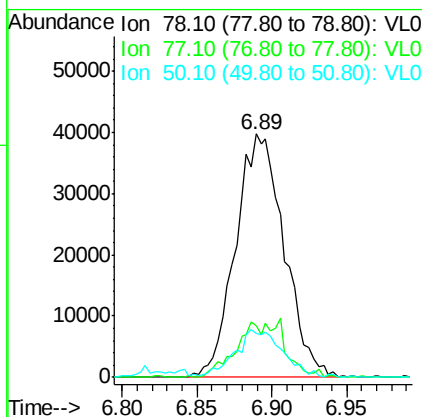
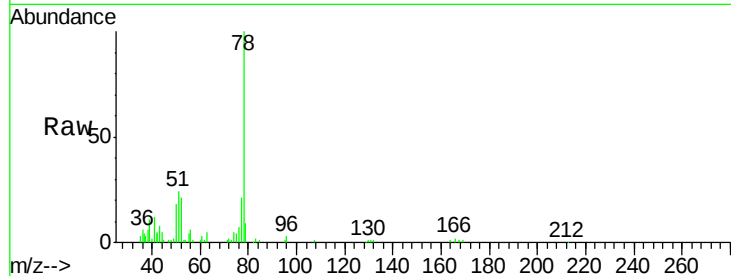
ClientSampled :

SG-1DL

Tot Ion:	78	Resp:	89584
Ion Ratio	Lower	Upper	
78	100		
77	21.1	19.0	28.6
50	18.3	15.8	23.8

Manual Integrations
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#38

Trichloroethene

Concen: 311.143 ppbv

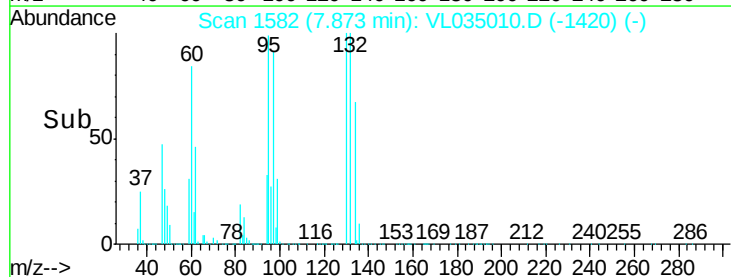
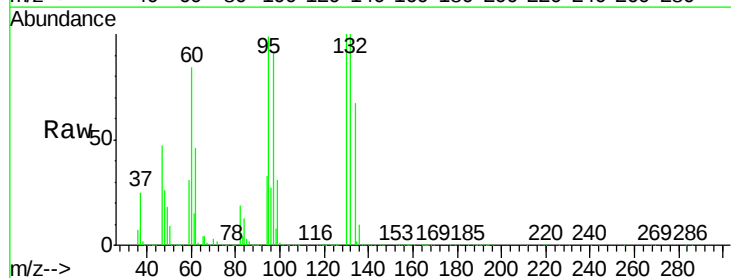
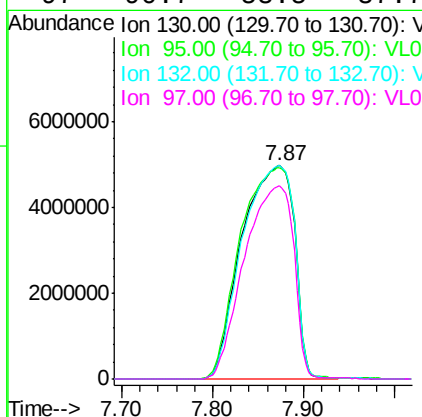
RT: 7.87 min Scan# 1582

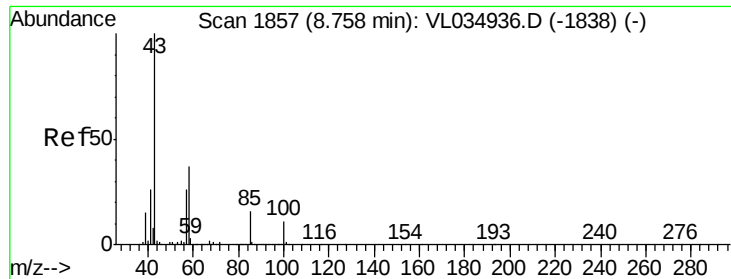
Delta R.T. 0.02 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Tgt Ion:	130	Resp:	20008314
Ion Ratio	Lower	Upper	
130	100		
95	99.3	93.4	140.0
132	100.2	76.4	114.6
97	90.7	58.5	87.7#





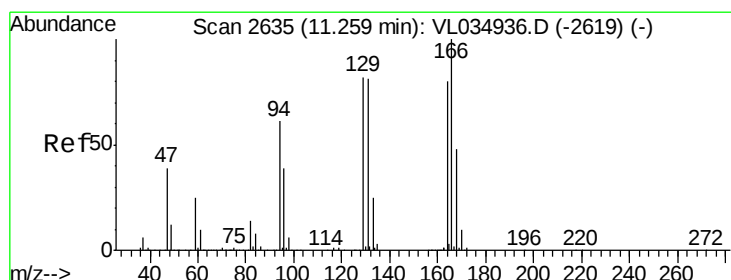
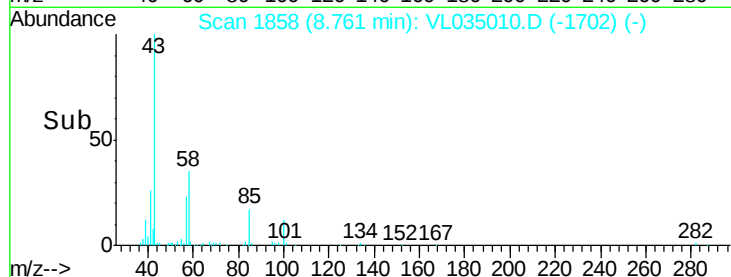
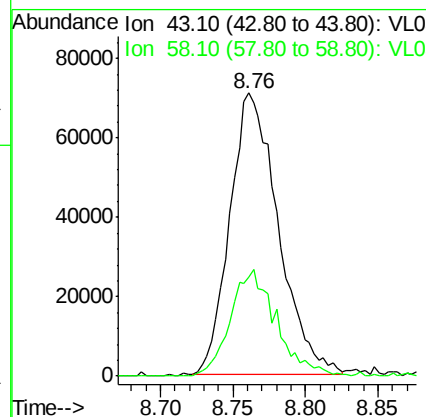
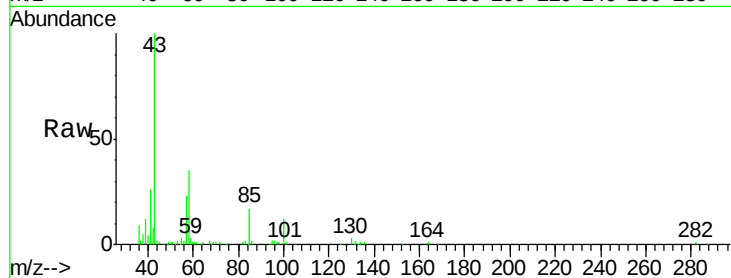
#50
4-Methyl-2-Pentanone
Concen: 0.923 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. 0.00 min
Lab File: VL035010.D
Acq: 13 May 2020 5:55

Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

Tot Ion: 43 Resp: 164708
Ion Ratio Lower Upper
43 100
58 36.0 29.1 43.7

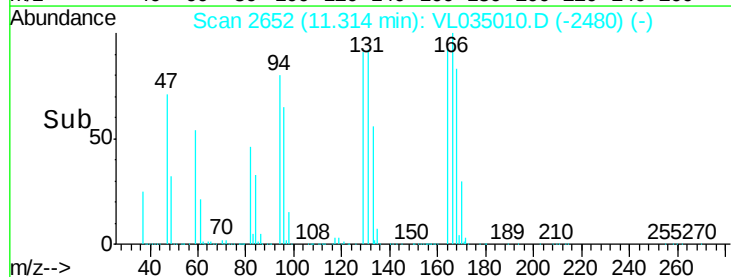
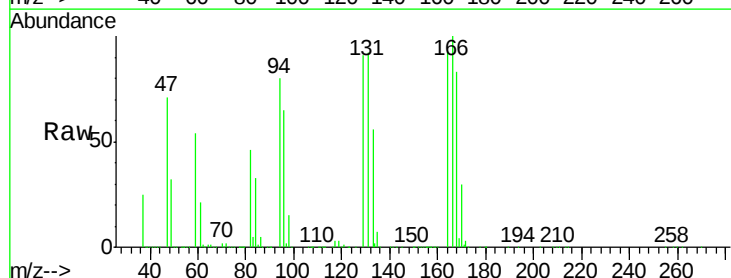
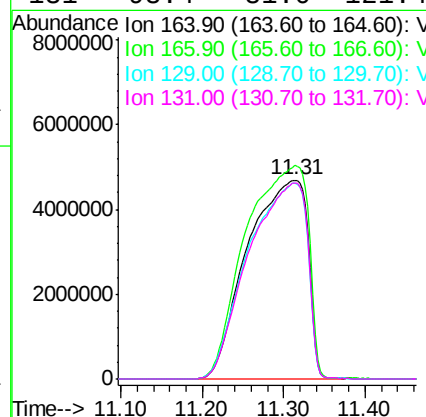
Manual Integrations
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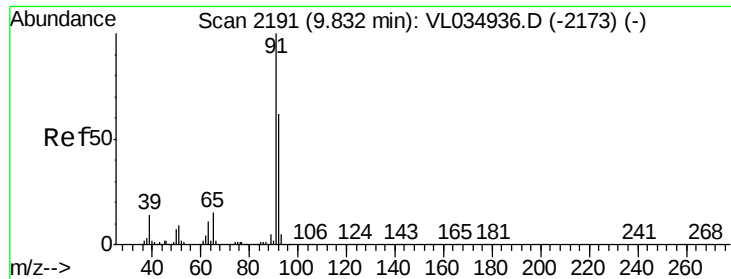
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#52
Tetrachloroethene
Concen: 411.196 ppbv
RT: 11.31 min Scan# 2652
Delta R.T. 0.05 min
Lab File: VL035010.D
Acq: 13 May 2020 5:55

Tgt Ion: 164 Resp: 24270050
Ion Ratio Lower Upper
164 100
166 107.4 100.7 151.1
129 98.2 83.0 124.4
131 98.4 81.0 121.4





#53

Toluene

Concen: 2.424 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.01 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Instrument :

MSVOA_L

ClientSampled :

SG-1DL

Tot Ion: 91 Resp: 426471

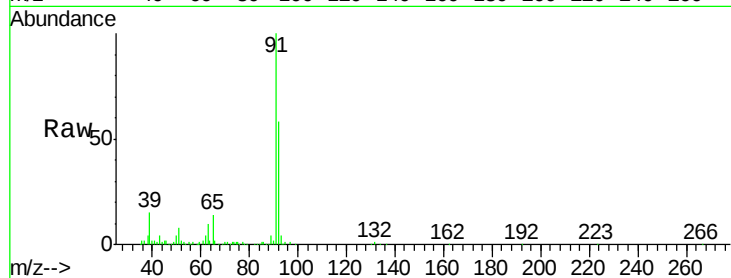
Ion Ratio Lower Upper

91 100

92 58.1 48.6 73.0

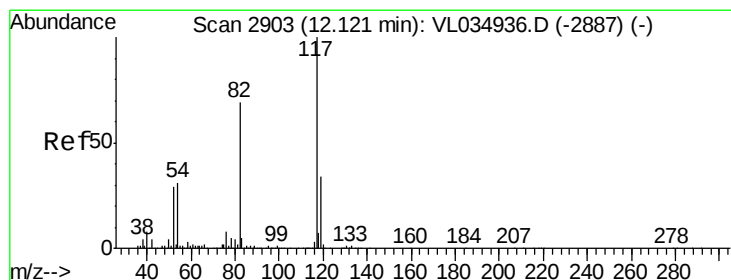
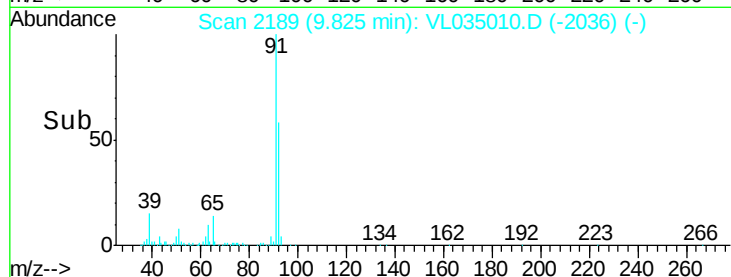
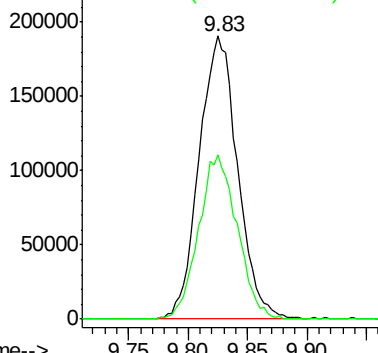
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

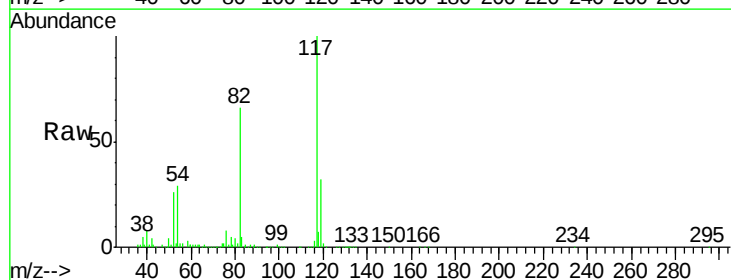
Tgt Ion: 117 Resp: 1819261

Ion Ratio Lower Upper

117 100

82 68.4 53.1 79.7

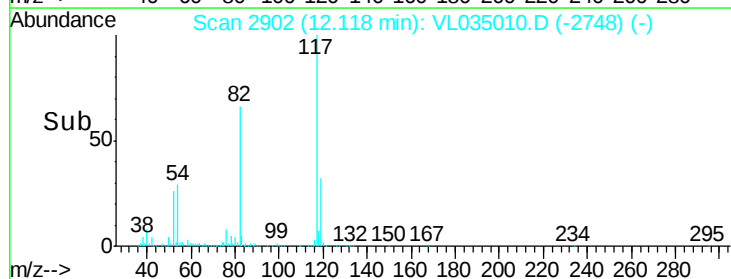
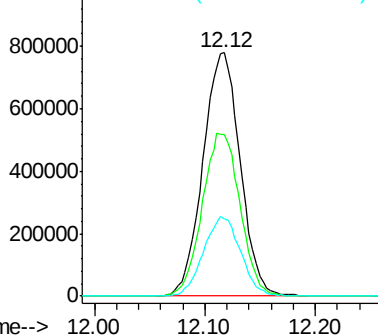
119 32.6 26.7 40.1

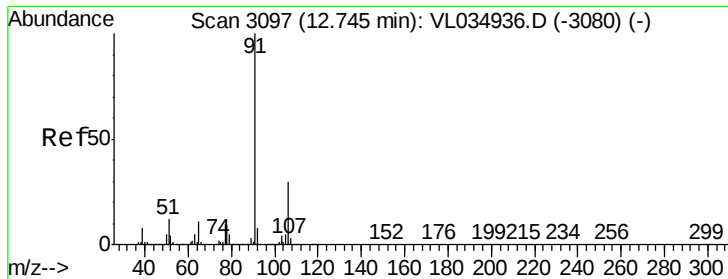


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 1.095 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.01 min

Lab File: VL035010.D

Acq: 13 May 2020 5:55

Instrument :

MSVOA_L

ClientSampled :

SG-1DL

Tot Ion: 91 Resp: 246410

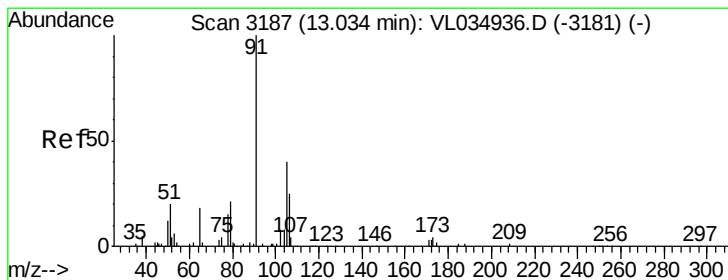
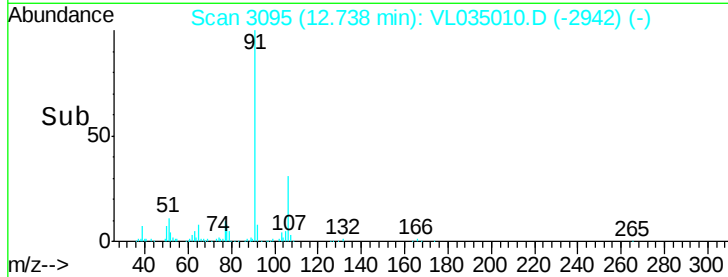
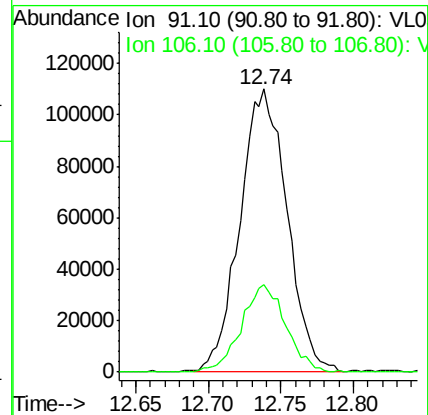
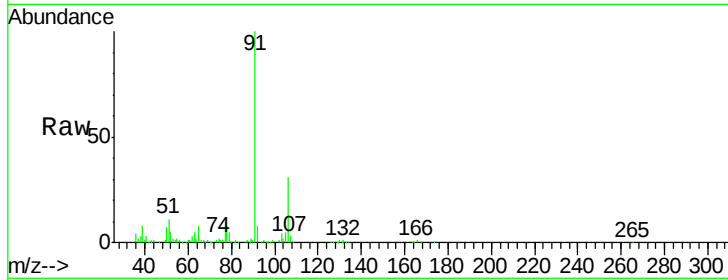
Ion Ratio Lower Upper

91 100

106 31.1 24.2 36.4

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#59

m/p-Xylene

Concen: 3.230 ppbv

RT: 12.99 min Scan# 3174

Delta R.T. -0.04 min

Lab File: VL035010.D

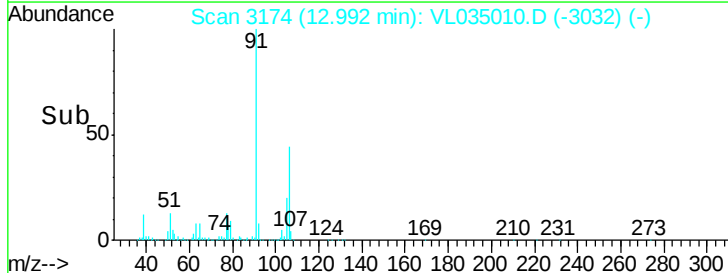
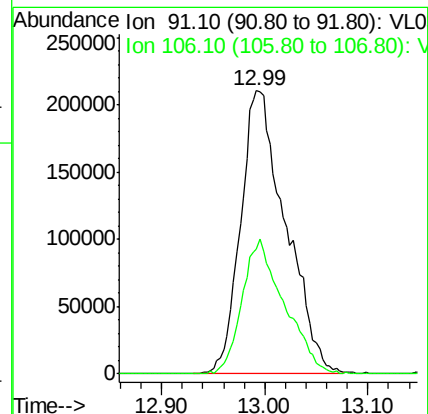
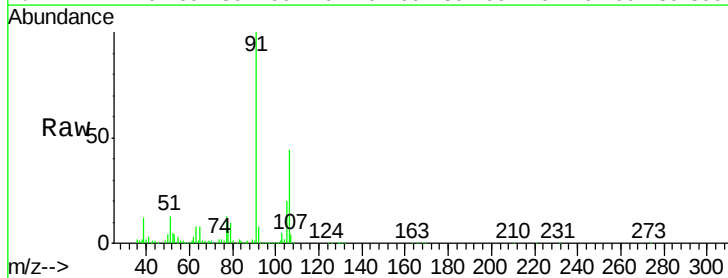
Acq: 13 May 2020 5:55

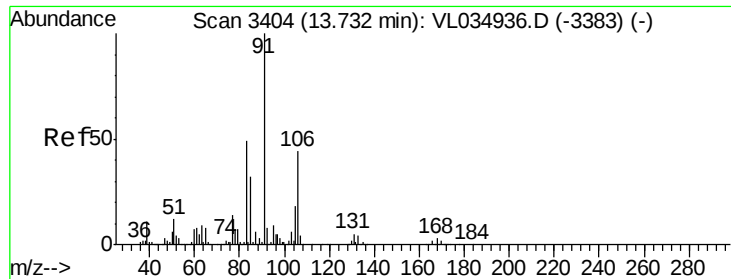
Tgt Ion: 91 Resp: 639276

Ion Ratio Lower Upper

91 100

106 44.7 66.0 99.0#





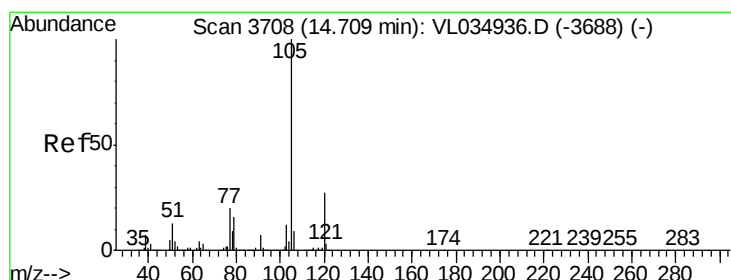
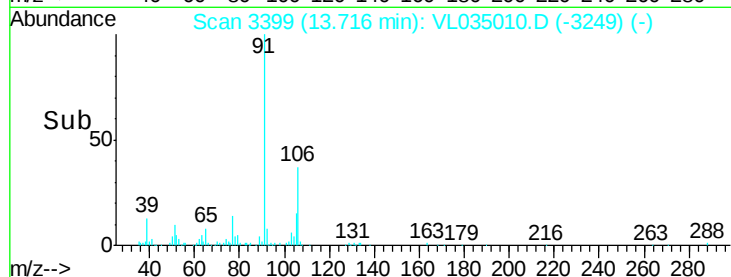
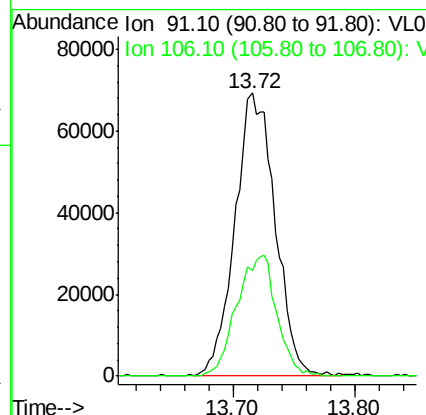
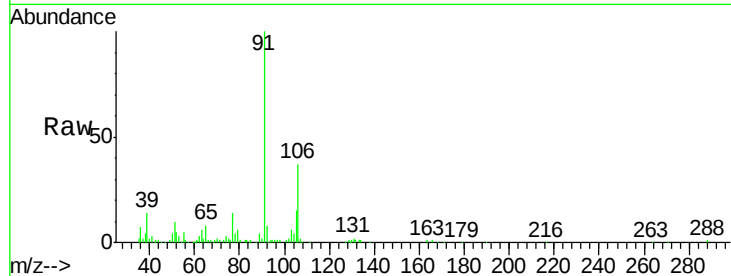
#60
o-Xylene
Concen: 0.809 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. -0.02 min
Lab File: VL035010.D
Acq: 13 May 2020 5:55

Instrument :
MSVOA_L
ClientSampled :
SG-1DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.9	65.5

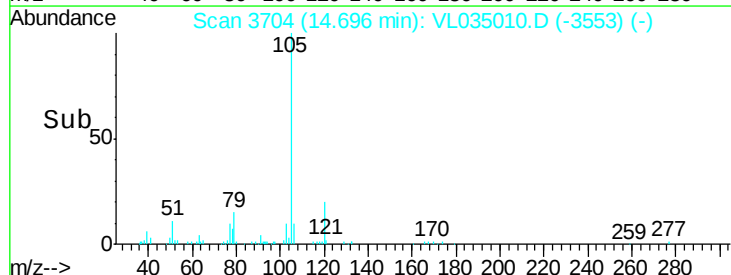
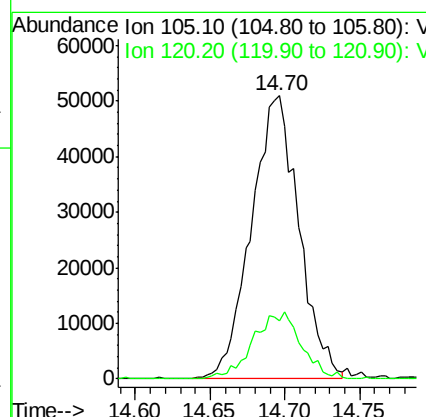
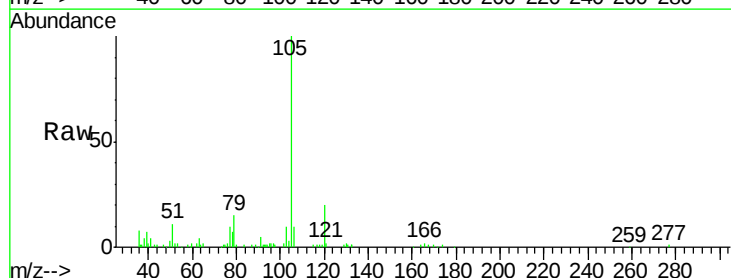
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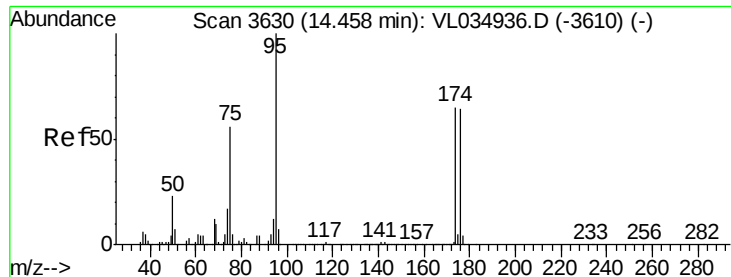
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#62
Isopropylbenzene
Concen: 0.387 ppbv
RT: 14.70 min Scan# 3704
Delta R.T. -0.01 min
Lab File: VL035010.D
Acq: 13 May 2020 5:55

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.8	20.6	31.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.016 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.01 min
 Lab File: VL035010.D
 Acq: 13 May 2020 5:55

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	66.0	51.5	77.3
175	5.0	3.8	5.8

Manual Integrations
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