

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035915.D
 Acq On : 12 Nov 2020 16:04
 Operator : SY/AP
 Sample : L4720-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-2

Manual Integrations
 APPROVED

MMDadoda
 11/16/2020 2:28:12 PM

Quant Time: Nov 14 21:32:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1193183	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4212015	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3897412	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2835436	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	59371	0.264	ppbv	93
3) Chlorodifluoromethane	2.97	51	92860m	0.650	ppbv	
4) Chloromethane	3.13	50	40206	0.579	ppbv	94
7) Chloroethane	3.55	64	5439m	0.175	ppbv	
9) Propene	3.01	41	57748	1.104	ppbv	86
11) Trichlorofluoromethane	3.94	101	64484	0.229	ppbv	93
13) Ethanol	3.65	45	23739128	2092.314	ppbv	93
15) Acetone	3.84	43	1174606	9.208	ppbv	95
19) Isopropyl Alcohol	4.02	45	12621977	161.013	ppbv #	96
20) Methylene Chloride	4.34	84	274654	3.059	ppbv	97
26) Hexane	5.68	57	227623	1.642	ppbv #	54
34) 2-Butanone	5.24	43	65226	0.477	ppbv	98
35) Carbon Tetrachloride	7.01	117	15478m	0.069	ppbv	
36) Benzene	6.89	78	71133	0.227	ppbv	98
44) 2,2,4-Trimethylpentane	7.86	57	76209	0.184	ppbv #	71
52) Tetrachloroethene	11.22	164	4826m	0.033	ppbv	
53) Toluene	9.81	91	511743	1.354	ppbv	97
59) m/p-Xylene	12.97	91	114278	0.285	ppbv	100
60) o-Xylene	13.69	91	41777m	0.107	ppbv	

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

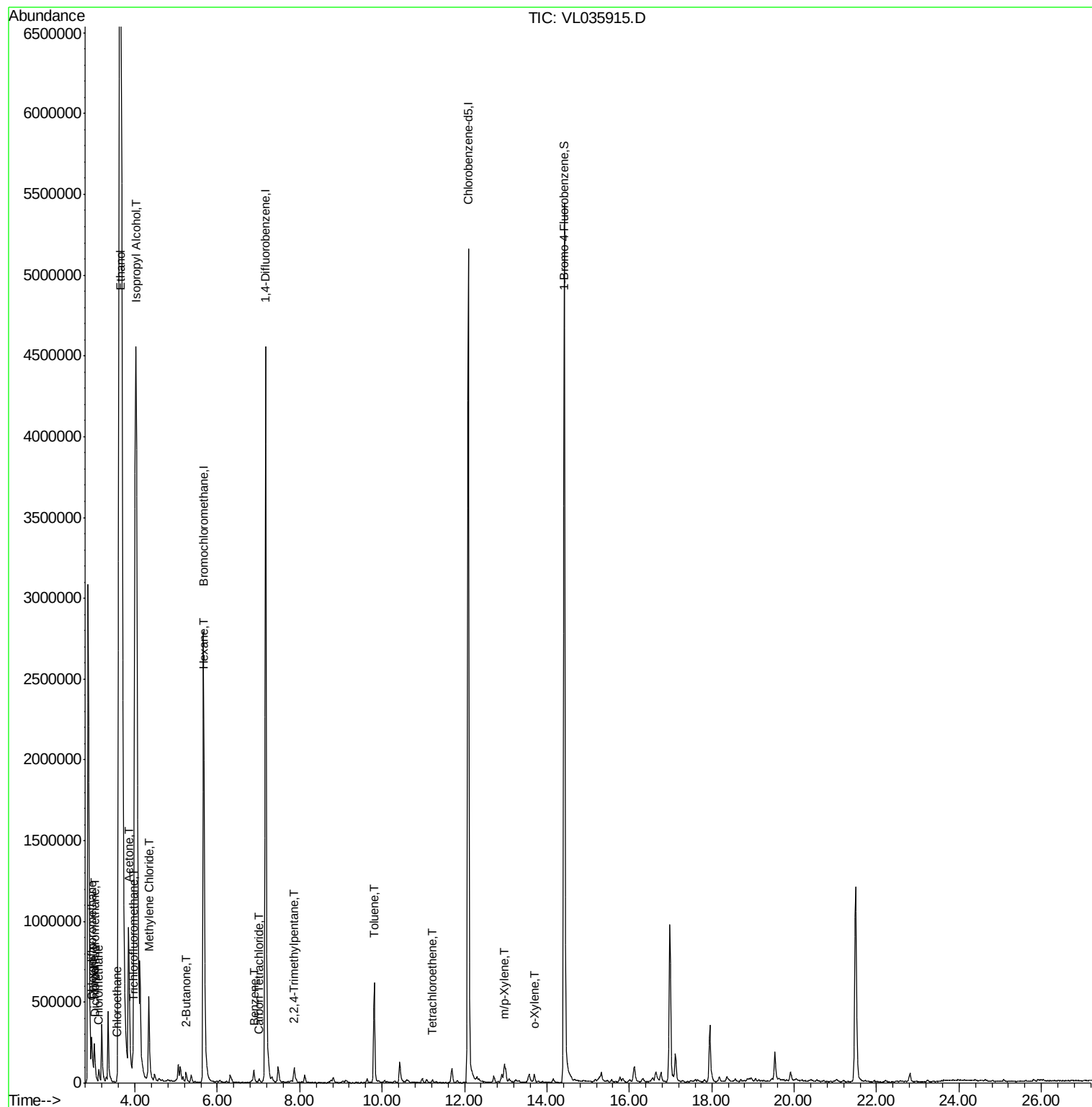
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111220\
Data File : VL035915.D
Acq On : 12 Nov 2020 16:04
Operator : SY/AP
Sample : L4720-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

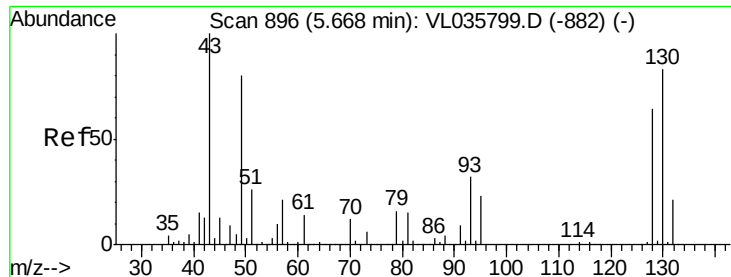
Instrument :
MSVOA_L
ClientSampleId :
CVS-2

Manual Integrations
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Quant Time: Nov 14 21:32:55 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





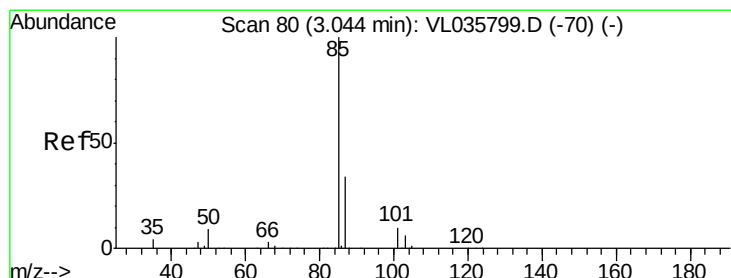
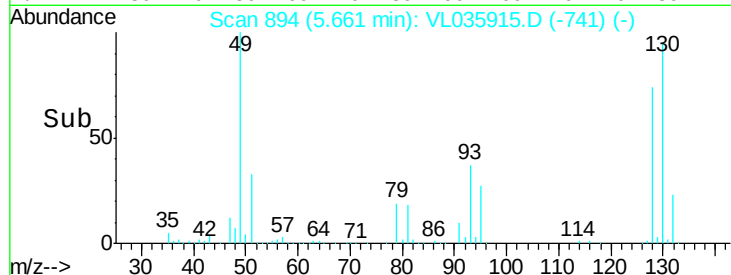
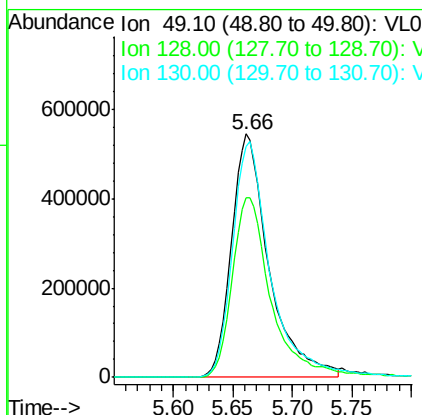
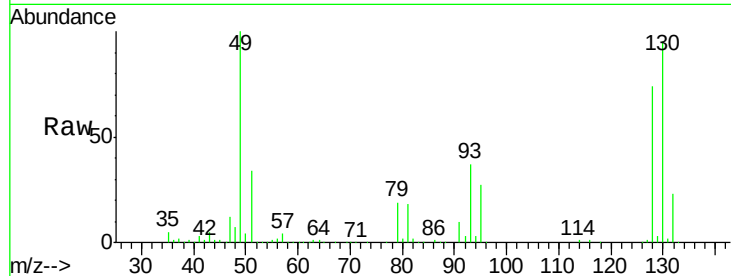
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL035915.D
Acq: 12 Nov 2020 16:04

Instrument :
MSVOA_L
ClientSampled :
CVS-2

Tot Ion: 49 Resp: 1193183
Ion Ratio Lower Upper
49 100
128 77.8 41.5 124.6
130 99.8 53.7 161.1

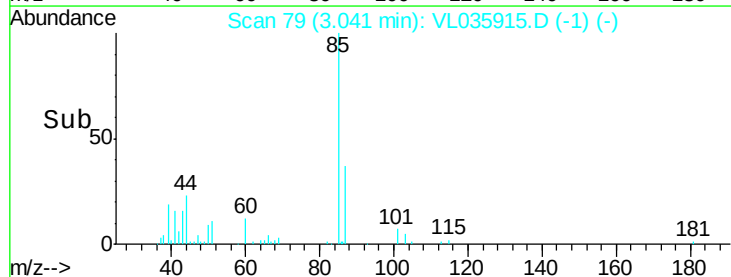
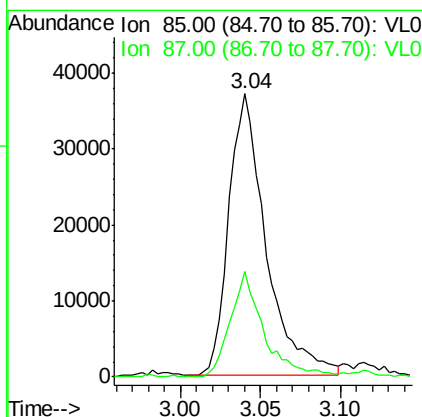
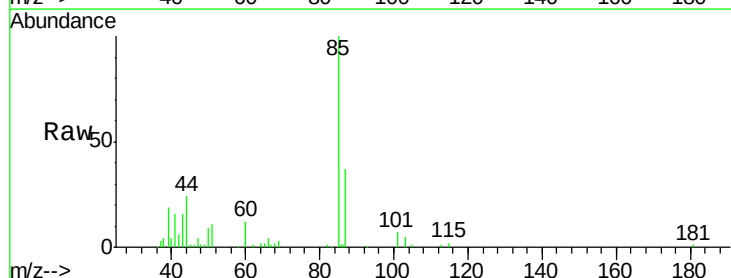
Manual Integrations
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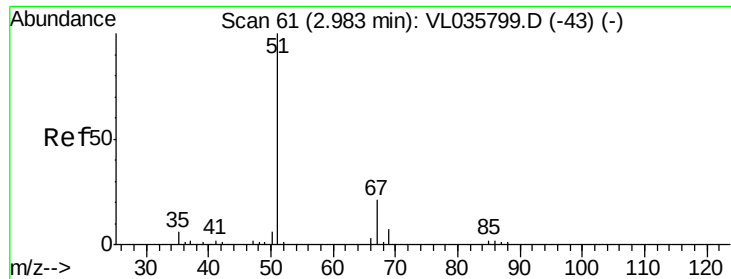
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#2
Dichlorodifluoromethane
Concen: 0.264 ppbv
RT: 3.04 min Scan# 79
Delta R.T. -0.00 min
Lab File: VL035915.D
Acq: 12 Nov 2020 16:04

Tgt Ion: 85 Resp: 59371
Ion Ratio Lower Upper
85 100
87 37.6 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.650 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL035915.D

Acq: 12 Nov 2020 16:04

Instrument :

MSVOA_L

ClientSampleId :

CVS-2

Tot Ion: 51 Resp: 92860

Ion Ratio Lower Upper

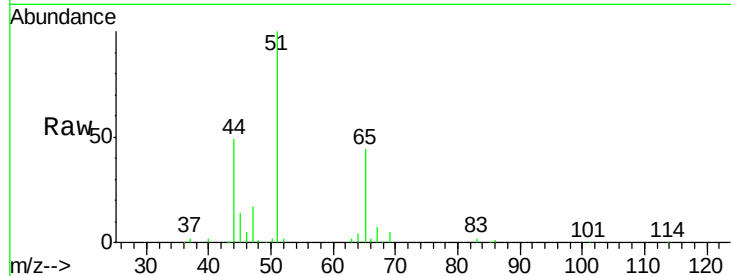
51 100

67 13.5 17.0 25.4#

Manual Integrations
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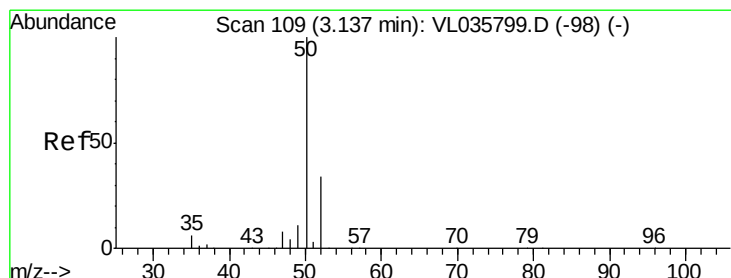
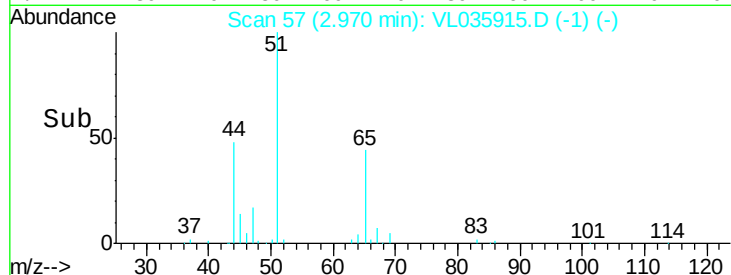
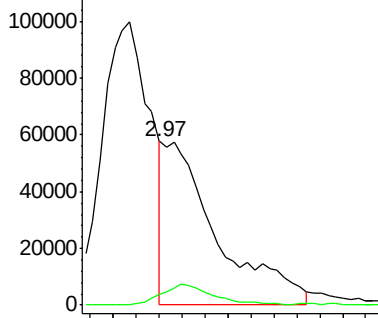
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.579 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035915.D

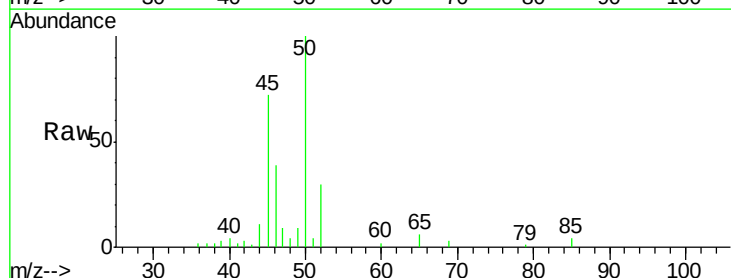
Acq: 12 Nov 2020 16:04

Tgt Ion: 50 Resp: 40206

Ion Ratio Lower Upper

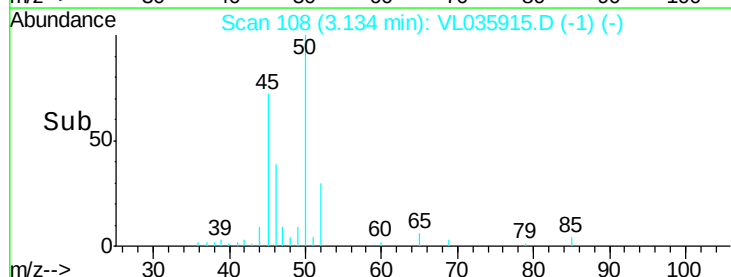
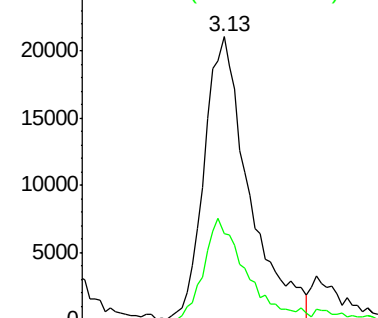
50 100

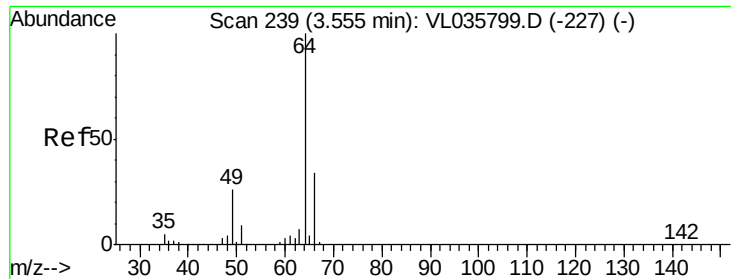
52 30.3 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.175 ppbv m

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL035915.D

Acq: 12 Nov 2020 16:04

Instrument :

MSVOA_L

ClientSampled :

CVS-2

Tot Ion: 64 Resp: 5439

Ion Ratio Lower Upper

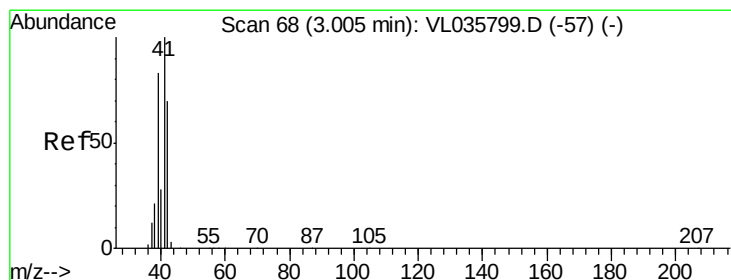
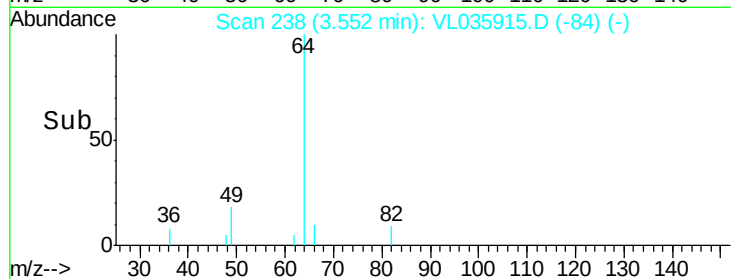
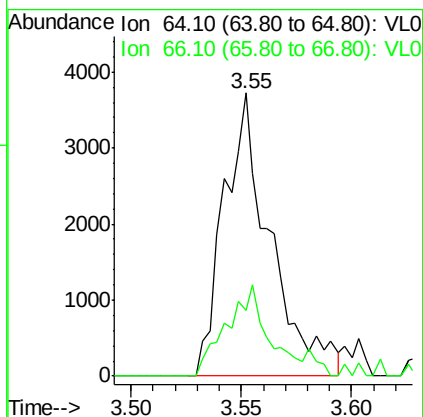
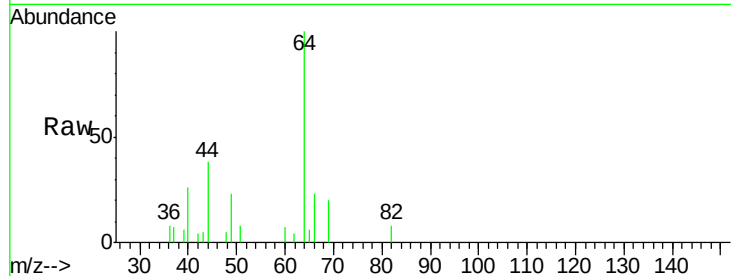
64 100

66 23.2 27.0 40.6#

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#9

Propene

Concen: 1.104 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035915.D

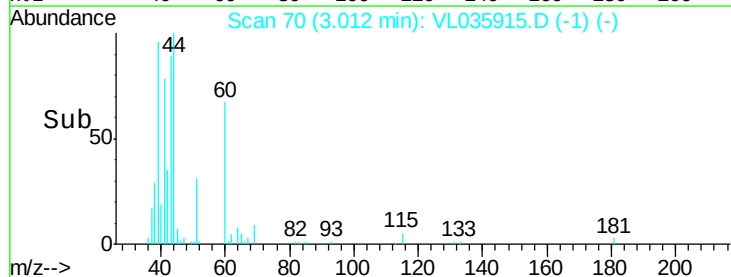
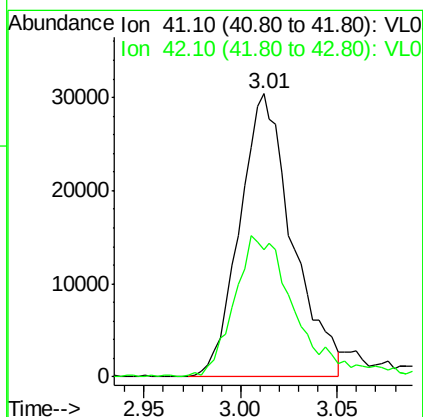
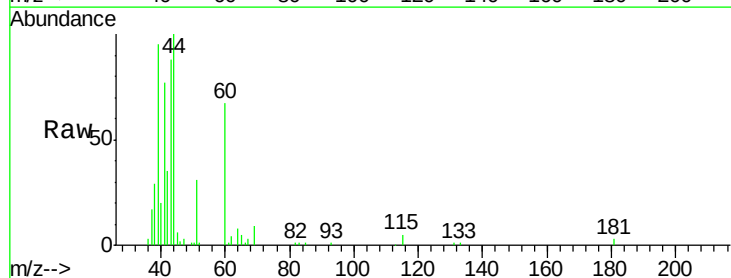
Acq: 12 Nov 2020 16:04

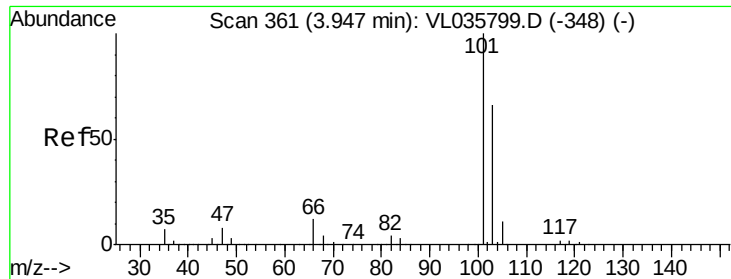
Tgt Ion: 41 Resp: 57748

Ion Ratio Lower Upper

41 100

42 58.8 56.2 84.4





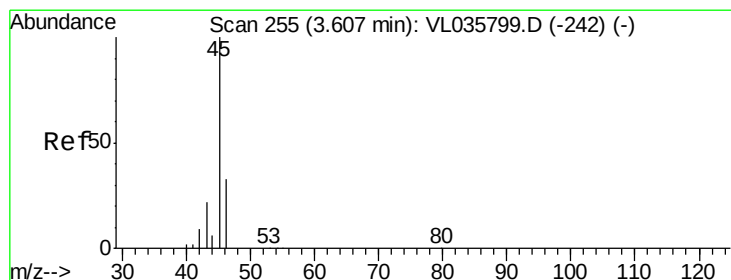
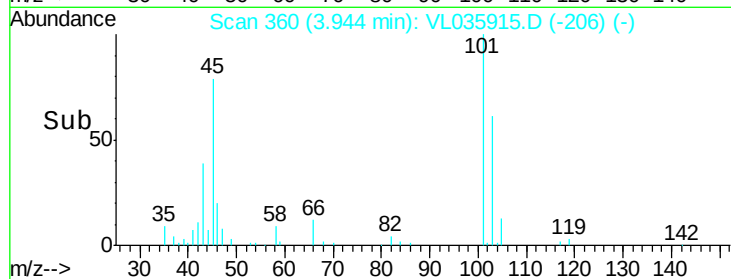
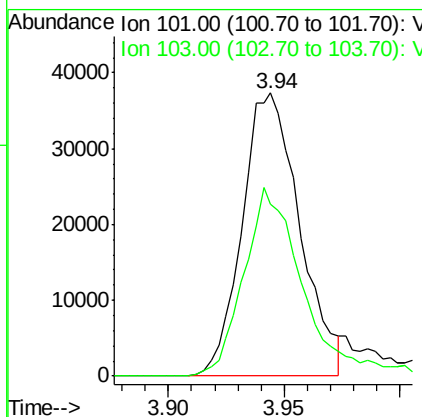
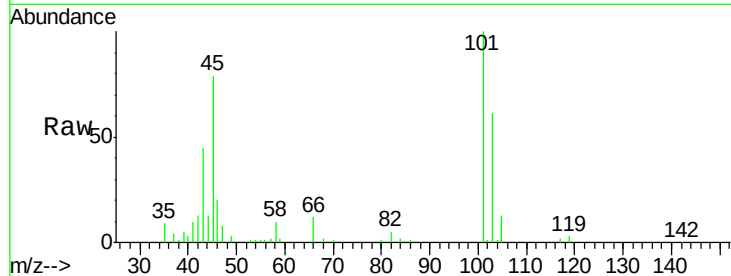
#11
 Trichlorofluoromethane
 Concen: 0.229 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL035915.D
 Acq: 12 Nov 2020 16:04

Instrument :
 MSVOA_L
 ClientSampled :
 CVS-2

Tot Ion:101 Resp: 64484
 Ion Ratio Lower Upper
 101 100
 103 61.0 53.0 79.4

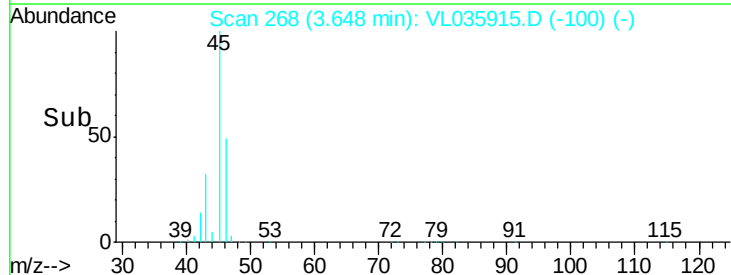
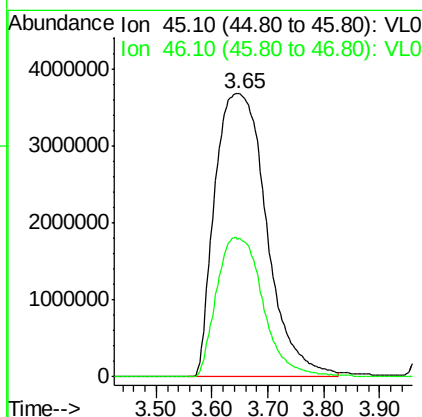
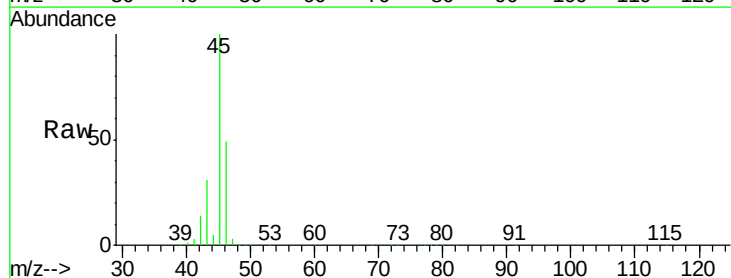
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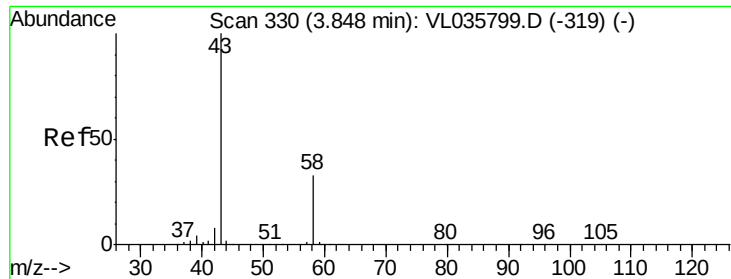
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#13
 Ethanol
 Concen: 2092.314 ppbv
 RT: 3.65 min Scan# 268
 Delta R.T. 0.04 min
 Lab File: VL035915.D
 Acq: 12 Nov 2020 16:04

Tgt Ion: 45 Resp:23739128
 Ion Ratio Lower Upper
 45 100
 46 44.5 16.1 64.5





#15

Acetone

Concen: 9.208 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035915.D

Acq: 12 Nov 2020 16:04

Instrument :

MSVOA_L

ClientSampleId :

CVS-2

Tot Ion: 43 Resp: 1174606

Ion Ratio Lower Upper

43 100

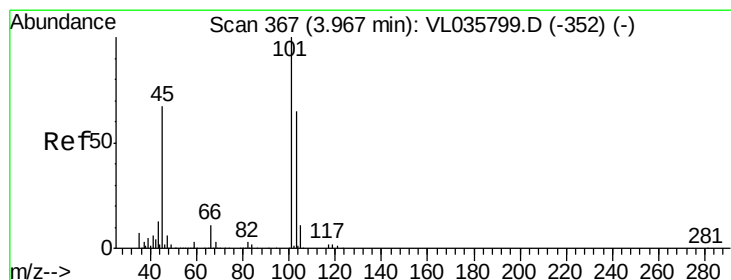
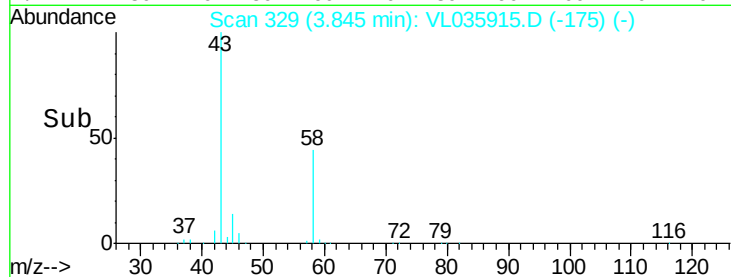
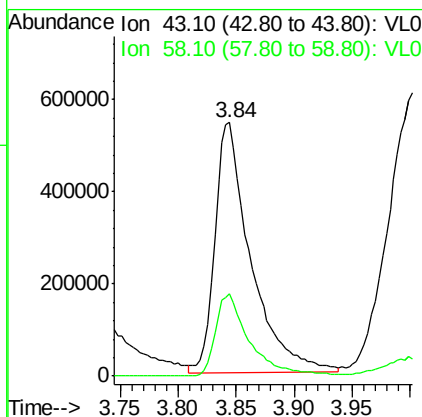
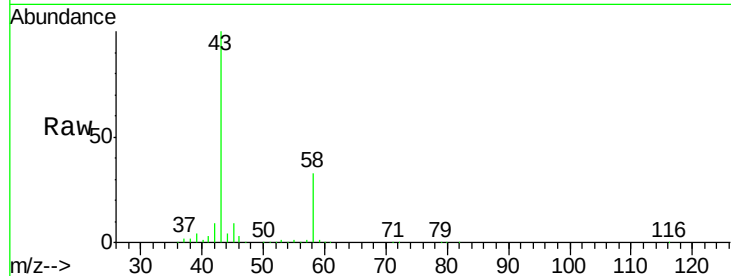
58 31.7 27.5 41.3

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 161.013 ppbv

RT: 4.02 min Scan# 385

Delta R.T. 0.06 min

Lab File: VL035915.D

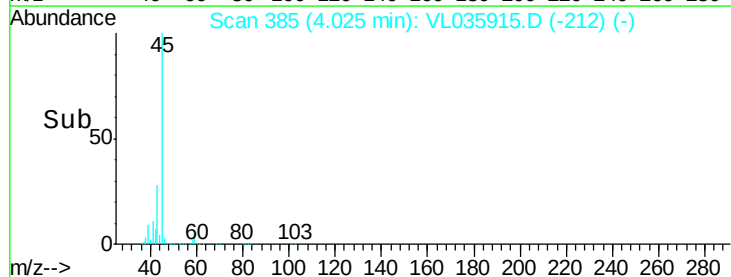
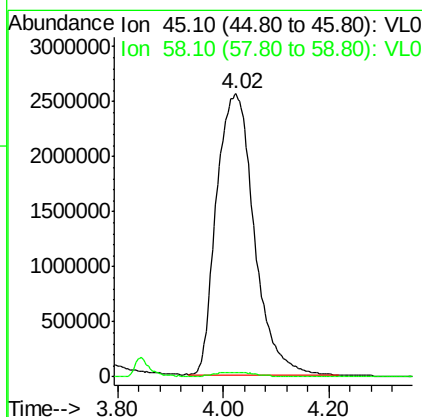
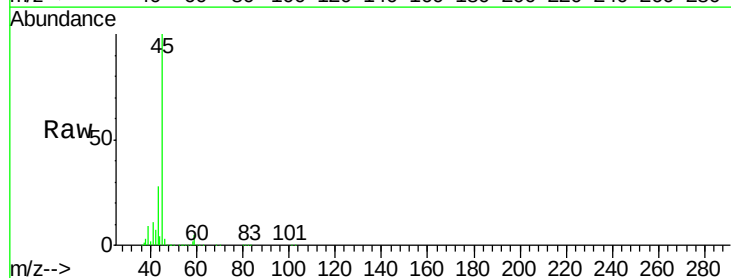
Acq: 12 Nov 2020 16:04

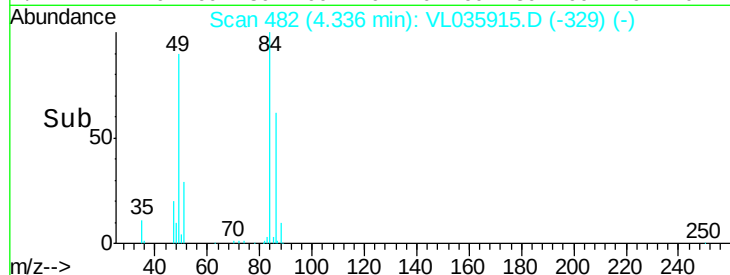
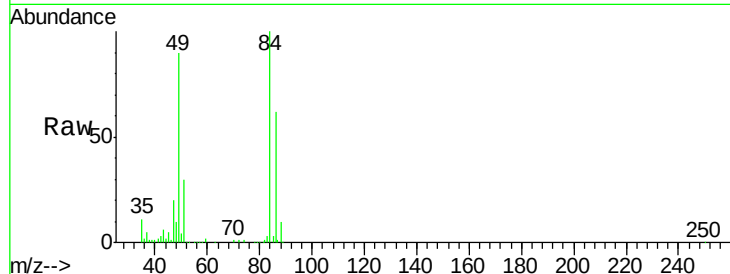
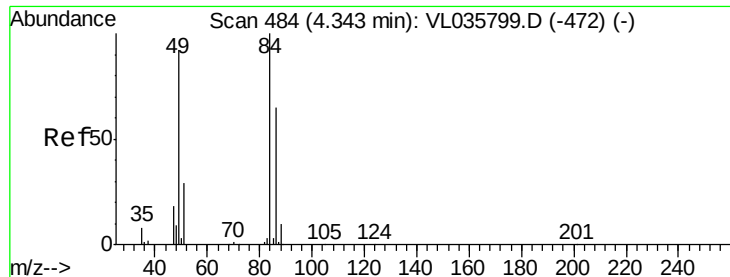
Tgt Ion: 45 Resp: 12621977

Ion Ratio Lower Upper

45 100

58 2.0 2.6 3.8#





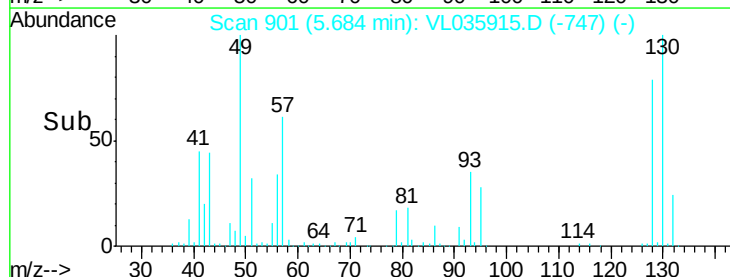
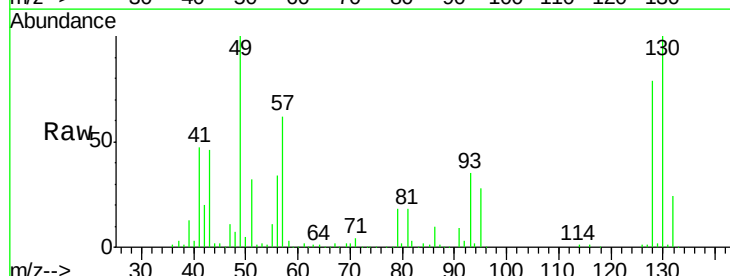
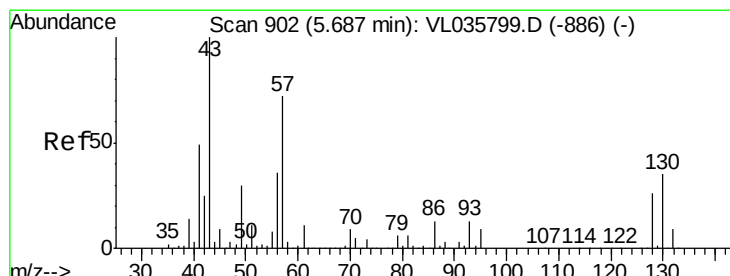
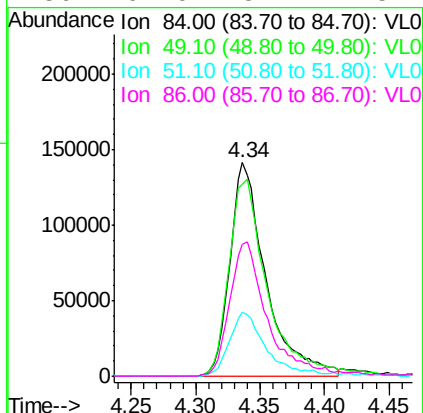
#20
Methylene Chloride
Concen: 3.059 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL035915.D
Acq: 12 Nov 2020 16:04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100		274654		
49	89.9	73.8	110.8		
51	29.7	23.0	34.4		
86	62.0	52.1	78.1		

Instrument :
MSVOA_L
ClientSampled :
CVS-2

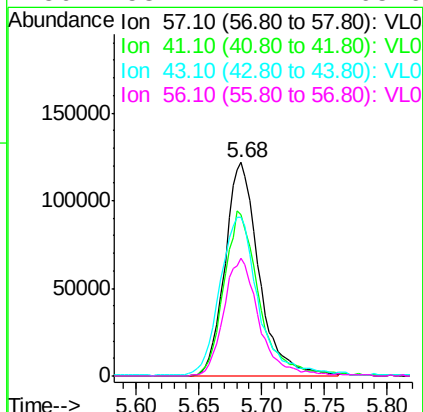
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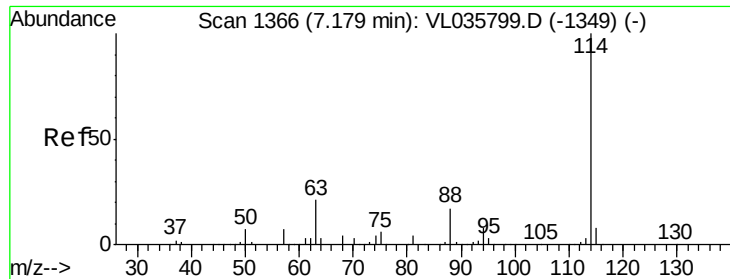
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#26
Hexane
Concen: 1.642 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035915.D
Acq: 12 Nov 2020 16:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		227623		
41	81.0	58.9	88.3		
43	84.9	150.2	225.2#		
56	58.4	42.4	63.6		





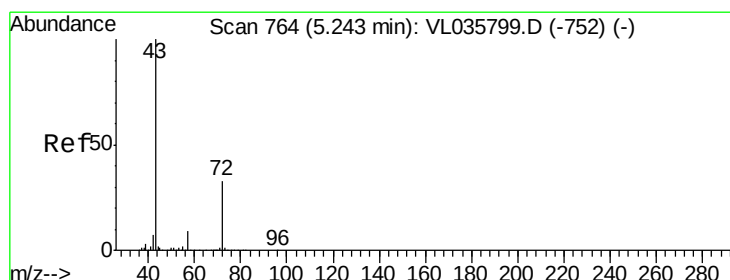
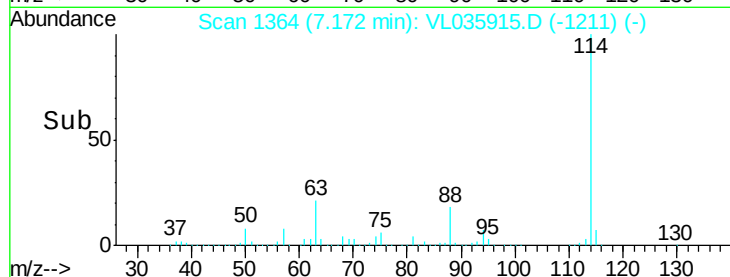
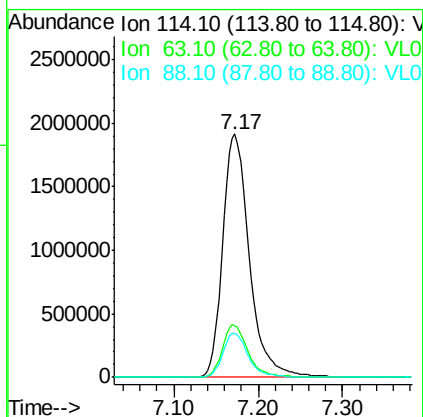
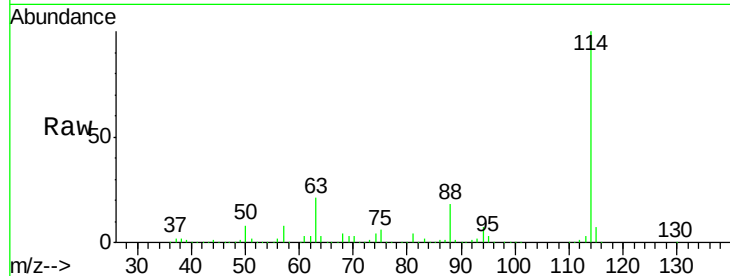
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL035915.D
 Acq: 12 Nov 2020 16:04

Instrument :
 MSVOA_L
 ClientSampled :
 CVS-2

Tot Ion:114 Resp: 4212015
 Ion Ratio Lower Upper
 114 100
 63 20.9 16.1 24.1
 88 17.5 13.7 20.5

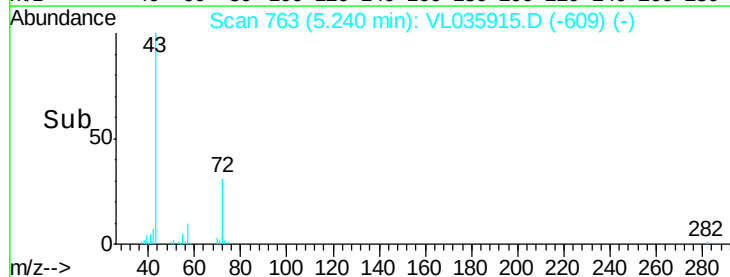
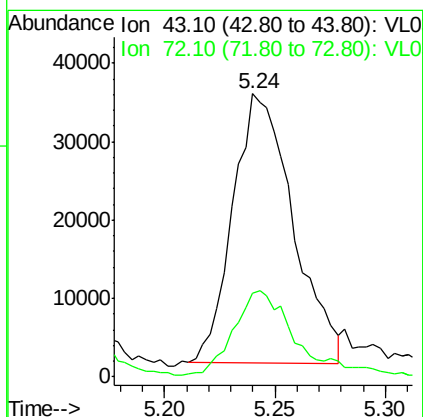
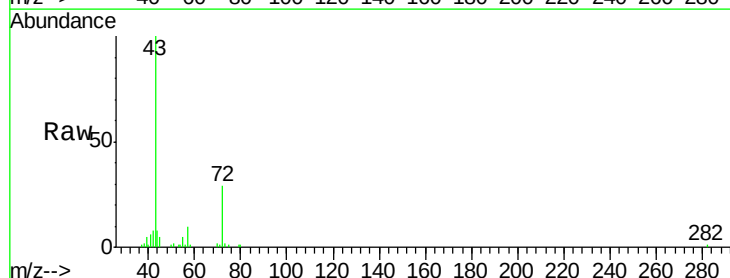
Manual Integrations
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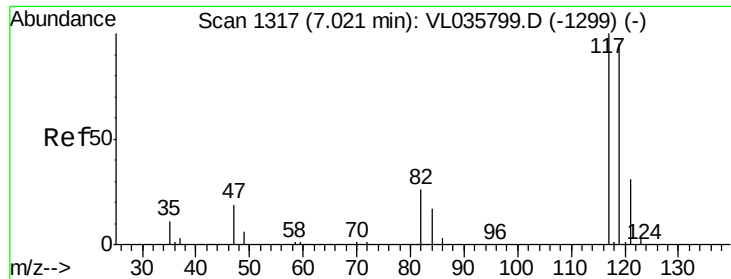
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#34
 2-Butanone
 Concen: 0.477 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VL035915.D
 Acq: 12 Nov 2020 16:04

Tgt Ion: 43 Resp: 65226
 Ion Ratio Lower Upper
 43 100
 72 34.3 26.5 39.7





#35

Carbon Tetrachloride

Concen: 0.069 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL035915.D

Acq: 12 Nov 2020 16:04

Instrument :

MSVOA_L

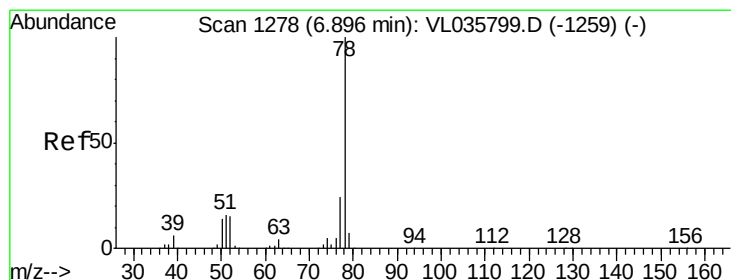
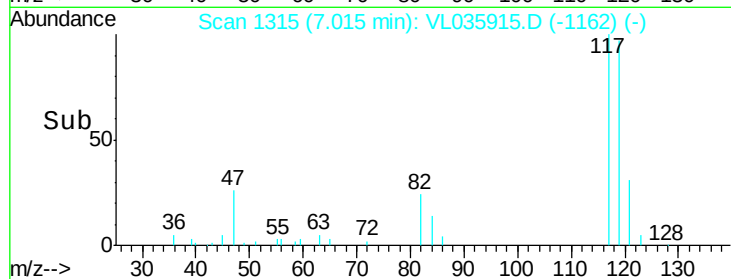
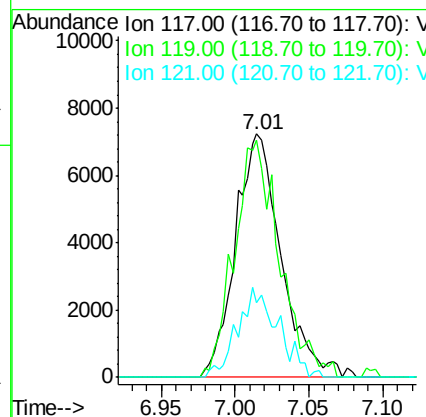
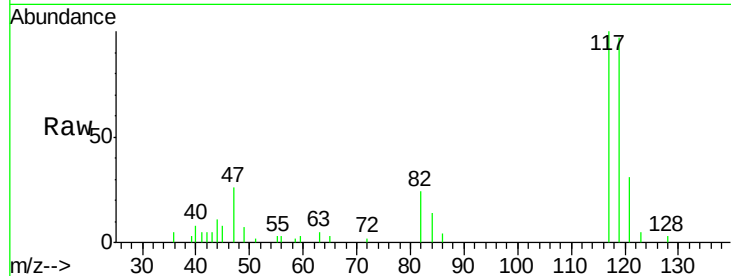
ClientSampleId :

CVS-2

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.6	113.4
121	30.7	25.1	37.7

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#36

Benzene

Concen: 0.227 ppbv

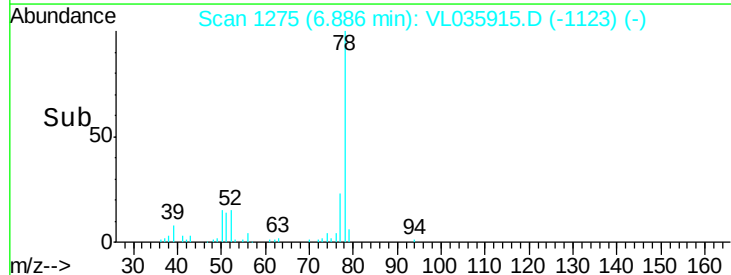
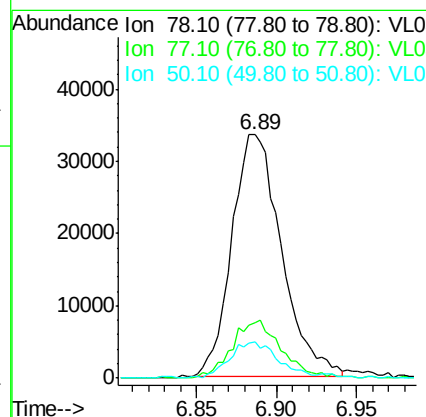
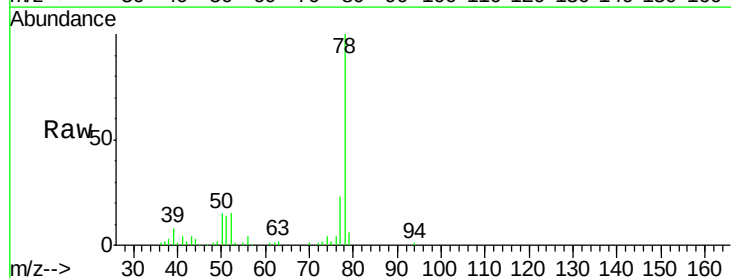
RT: 6.89 min Scan# 1275

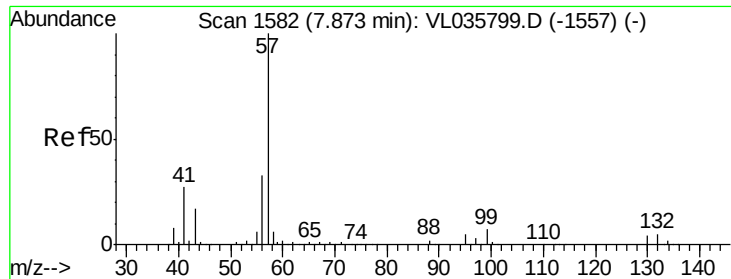
Delta R.T. -0.01 min

Lab File: VL035915.D

Acq: 12 Nov 2020 16:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.3	28.9
50	14.0	11.4	17.2





#44

2,2,4-Trimethylpentane

Concen: 0.184 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. -0.01 min

Lab File: VL035915.D

Acq: 12 Nov 2020 16:04

Instrument :

MSVOA_L

ClientSampleId :

CVS-2

Tot Ion: 57 Resp: 76209

Ion Ratio Lower Upper

57 100

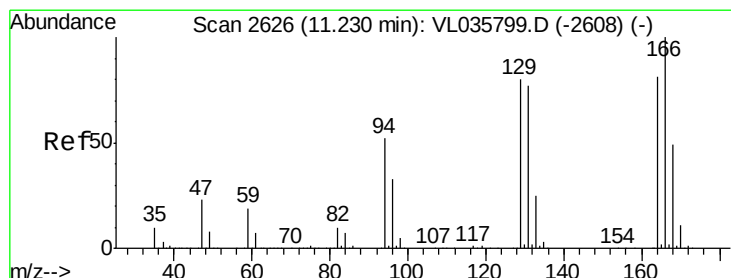
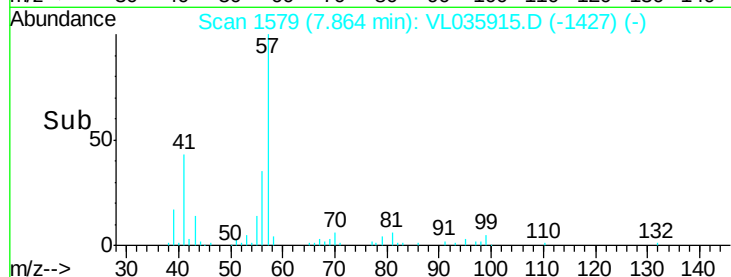
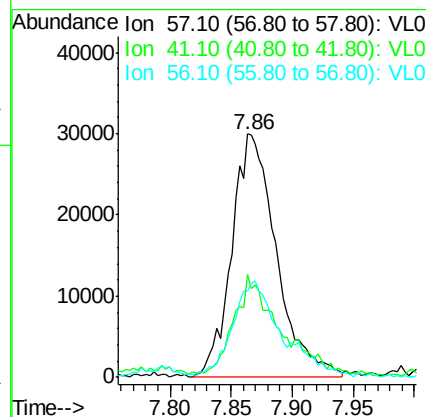
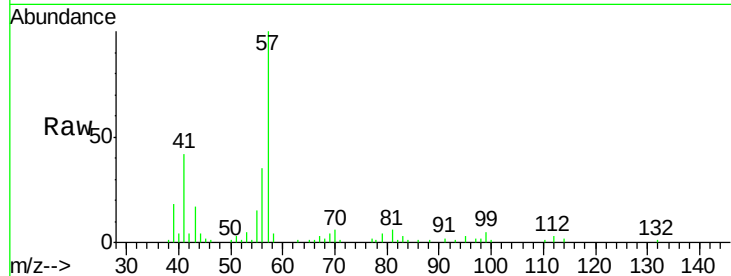
41 44.4 21.0 31.4#

56 44.7 25.4 38.0#

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#52

Tetrachloroethene

Concen: 0.033 ppbv m

RT: 11.22 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL035915.D

Acq: 12 Nov 2020 16:04

Tgt Ion: 164 Resp: 4826

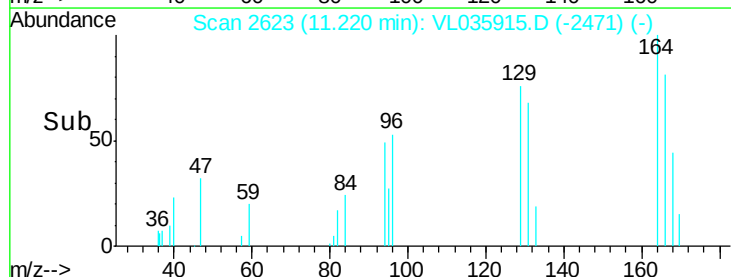
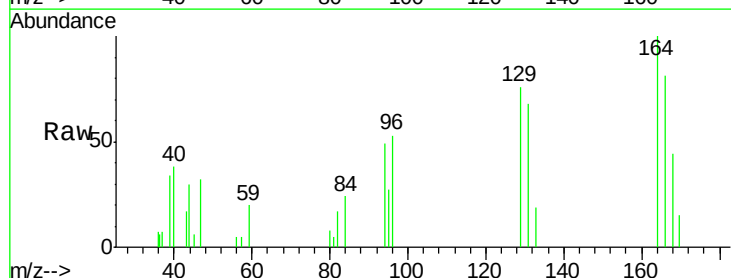
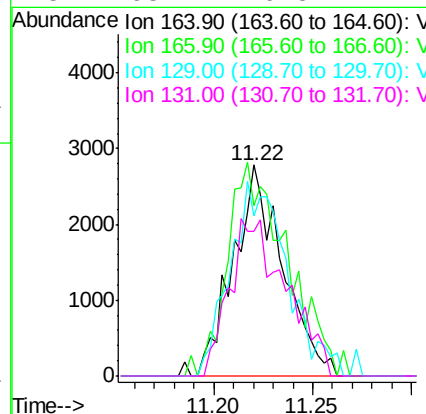
Ion Ratio Lower Upper

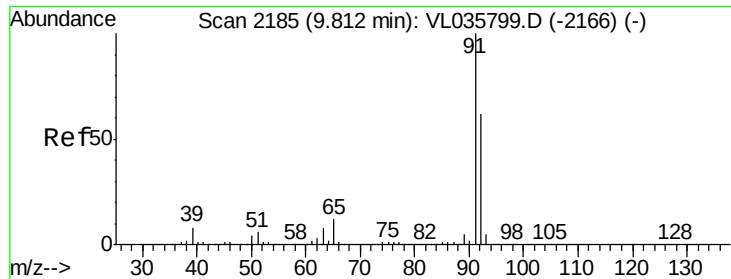
164 100

166 81.0 99.3 148.9#

129 75.8 79.3 118.9#

131 68.4 76.5 114.7#





#53

Toluene

Concen: 1.354 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL035915.D

Acq: 12 Nov 2020 16:04

Instrument :

MSVOA_L

ClientSampled :

CVS-2

Tot Ion: 91 Resp: 511743

Ion Ratio Lower Upper

91 100

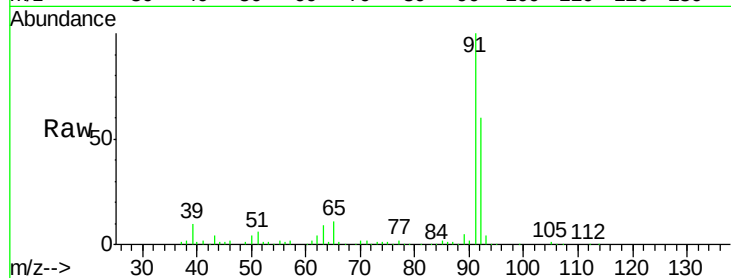
92 59.7 49.8 74.6

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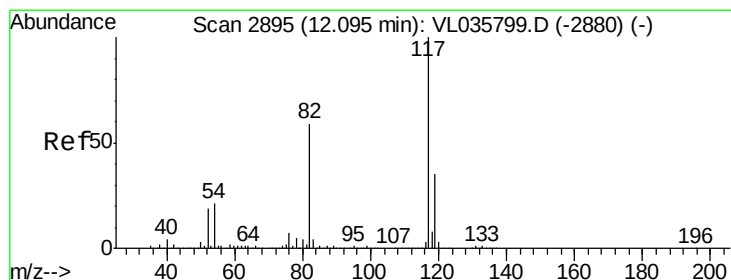
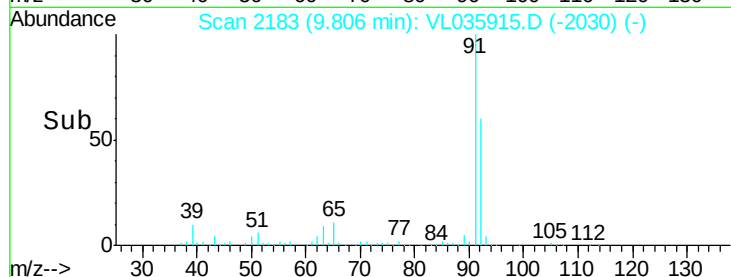
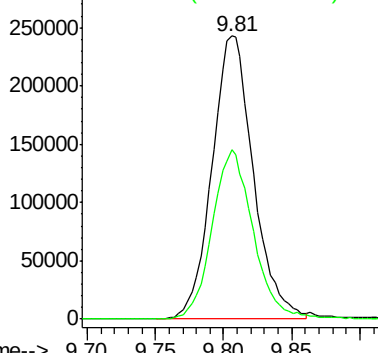
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL035915.D

Acq: 12 Nov 2020 16:04

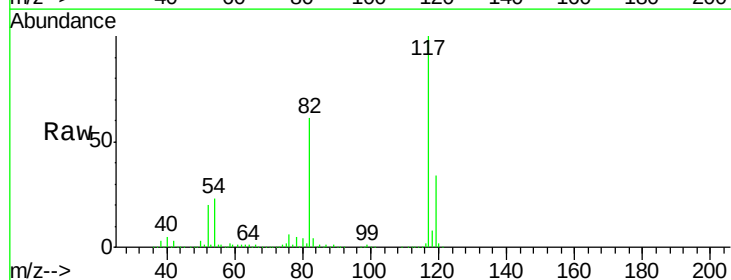
Tgt Ion: 117 Resp: 3897412

Ion Ratio Lower Upper

117 100

82 60.5 50.6 76.0

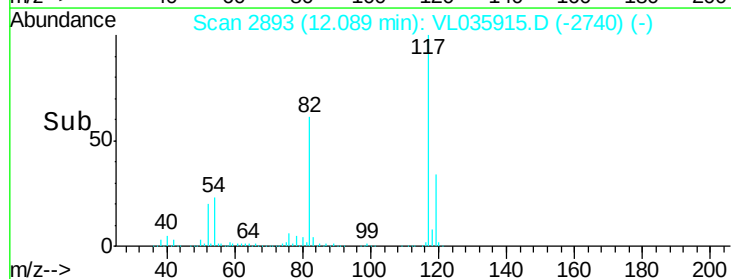
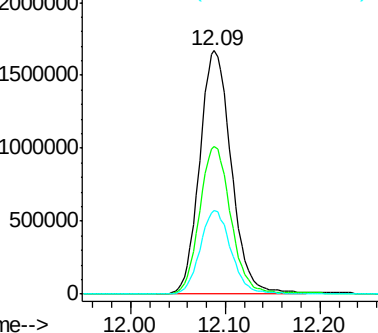
119 33.9 52.6 78.8#

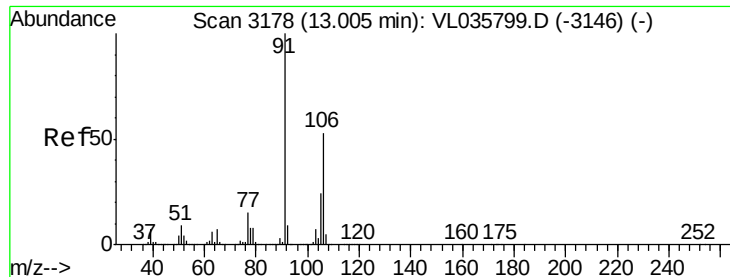


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





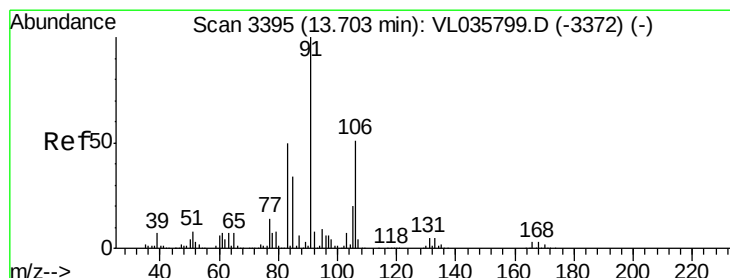
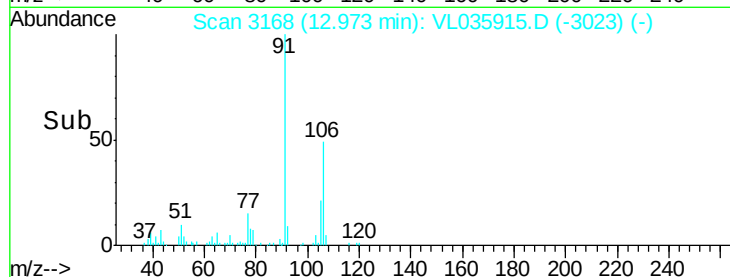
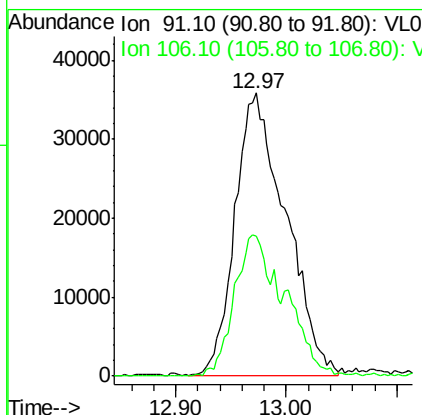
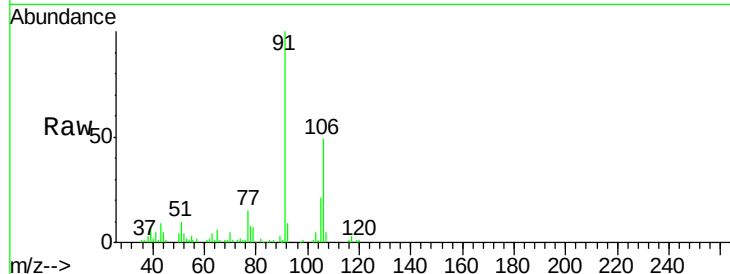
#59
m/p-Xylene
Concen: 0.285 ppbv
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL035915.D
Acq: 12 Nov 2020 16:04

Instrument :
MSVOA_L
ClientSampled :
CVS-2

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		114278		
106	49.5	39.5	59.3		

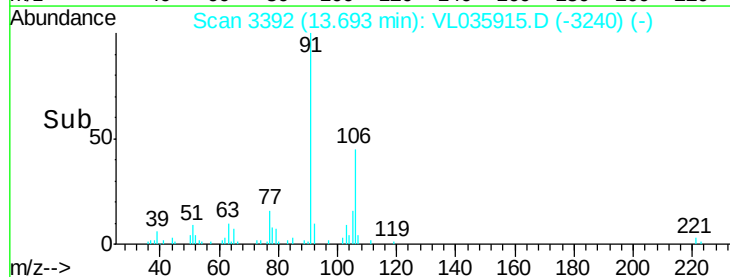
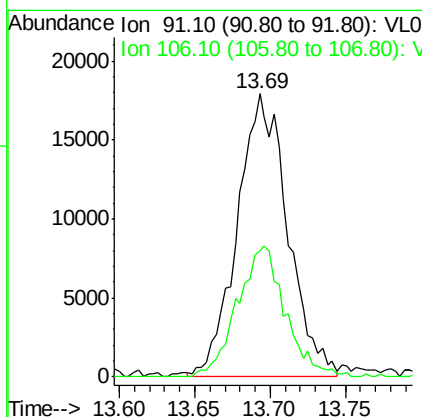
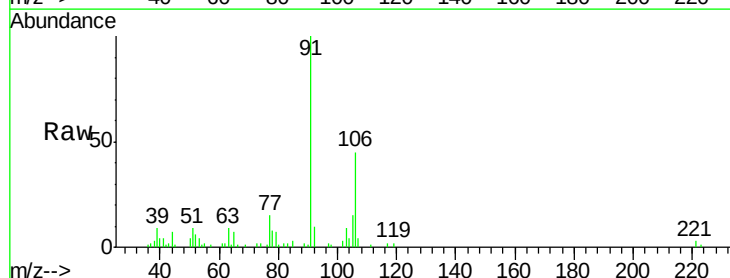
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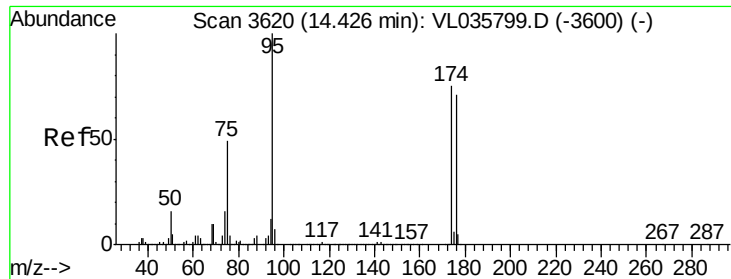
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#60
o-Xylene
Concen: 0.107 ppbv m
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL035915.D
Acq: 12 Nov 2020 16:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		41777		
106	43.9	24.8	74.4		





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.240 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL035915.D
 Acq: 12 Nov 2020 16:04

Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-2

Tot Ion	Ratio	Lower	Upper
95	100		
174	73.5	59.8	89.6
175	5.1	4.3	6.5

Manual Integrations
 APPROVED

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