

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035921.D
 Acq On : 12 Nov 2020 20:01
 Operator : SY/AP
 Sample : L4720-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-5

Manual Integrations
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MMDadoda
 11/16/2020 2:28:22 PM

Quant Time: Nov 13 03:19:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1140062	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4062404	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3730115	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	2770671	10.45	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	62800	0.293	ppbv	94
3) Chlorodifluoromethane	2.98	51	61479m	0.450	ppbv	
4) Chloromethane	3.13	50	33820	0.510	ppbv	93
9) Propene	3.01	41	49013	0.981	ppbv	85
10) Heptane	8.12	43	23089	0.167	ppbv	97
11) Trichlorofluoromethane	3.94	101	66516	0.247	ppbv	97
13) Ethanol	3.60	45	390544	36.026	ppbv	100
15) Acetone	3.84	43	627472	5.148	ppbv	89
19) Isopropyl Alcohol	3.97	45	158929m	2.122	ppbv	
20) Methylene Chloride	4.34	84	1166155	13.591	ppbv	98
26) Hexane	5.68	57	1117167	8.437	ppbv #	47
30) Cyclohexane	7.16	84	43801m	0.304	ppbv	
34) 2-Butanone	5.24	43	44593	0.338	ppbv	99
35) Carbon Tetrachloride	7.02	117	14389	0.066	ppbv	93
36) Benzene	6.88	78	83845	0.278	ppbv #	91
44) 2,2,4-Trimethylpentane	7.87	57	157360	0.394	ppbv #	77
52) Tetrachloroethene	11.22	164	5568m	0.039	ppbv	
53) Toluene	9.80	91	1809679	4.966	ppbv	97
58) Ethyl Benzene	12.71	91	46449	0.102	ppbv	91
59) m/p-Xylene	12.97	91	135760m	0.353	ppbv	
60) o-Xylene	13.69	91	48434	0.130	ppbv	97
74) 1,2,4-Trimethylbenzene	16.77	105	65350	0.147	ppbv #	70

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

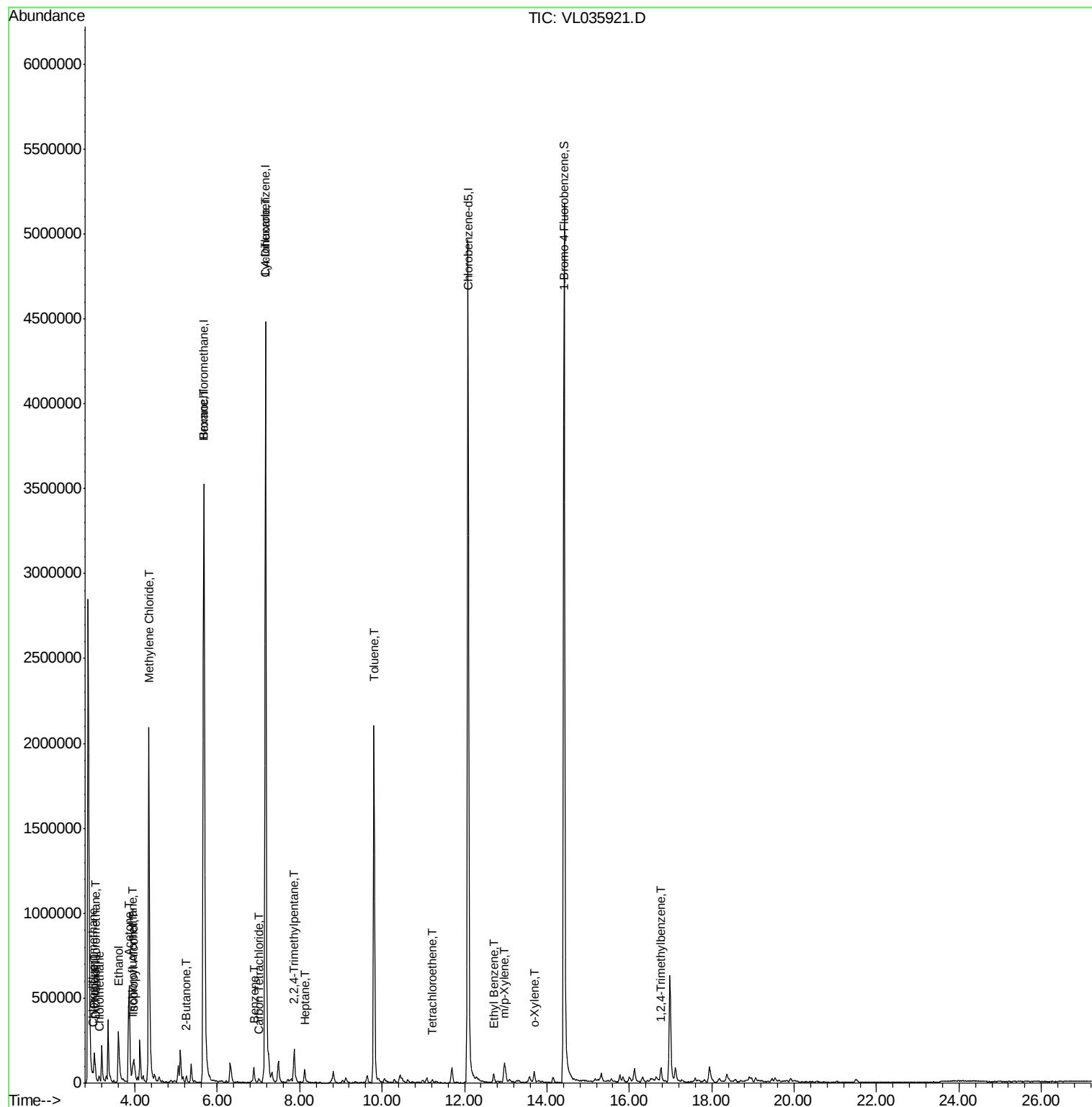
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
Data File : VL035921.D
Acq On : 12 Nov 2020 20:01
Operator : SY/AP
Sample : L4720-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

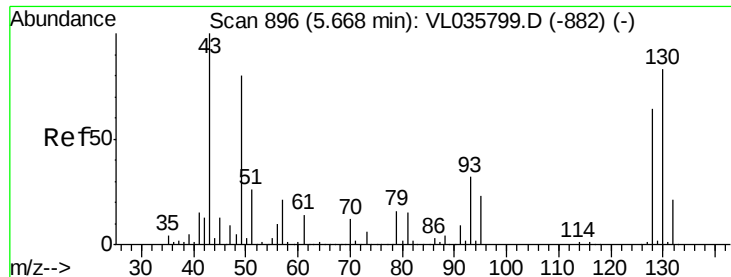
Instrument :
MSVOA_L
ClientSampleId :
CVS-5

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Quant Time: Nov 13 03:19:18 2020
Quant Method : Z:\VOASRV\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: VL035921.D

Acq: 12 Nov 2020 20:01

Instrument :

MSVOA_L

ClientSampleId :

CVS-5

Tot Ion: 49 Resp: 1140062

Ion Ratio Lower Upper

49 100

128 78.3 41.5 124.6

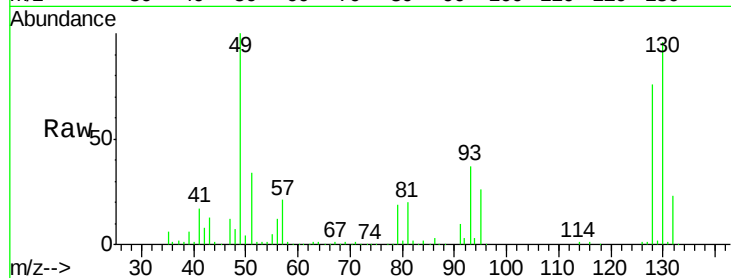
130 99.4 53.7 161.1

Manual Integrations

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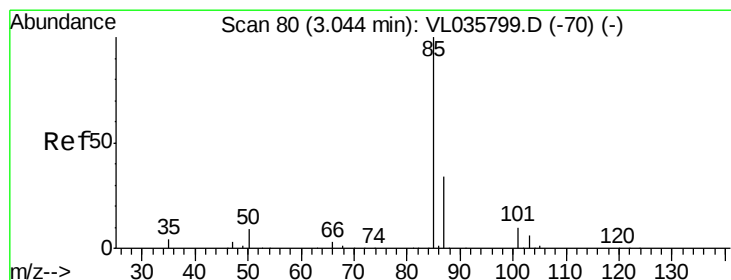
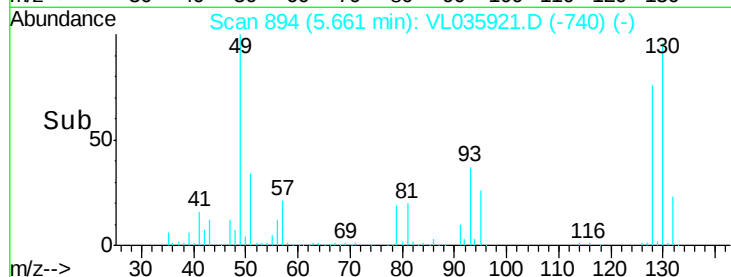
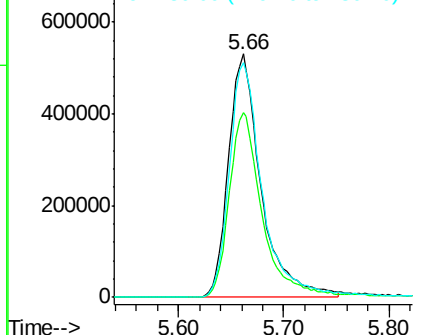
11/16/2020 2:28:22 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.293 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL035921.D

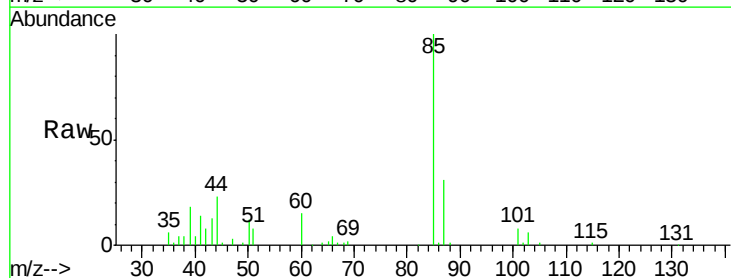
Acq: 12 Nov 2020 20:01

Tgt Ion: 85 Resp: 62800

Ion Ratio Lower Upper

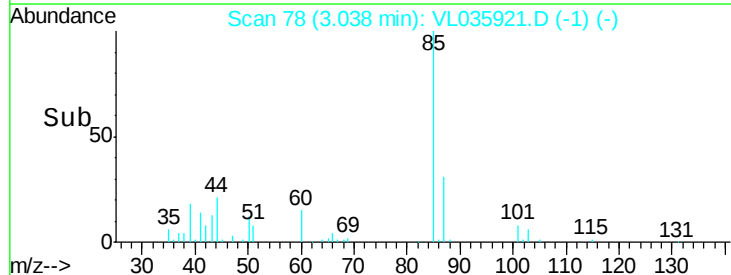
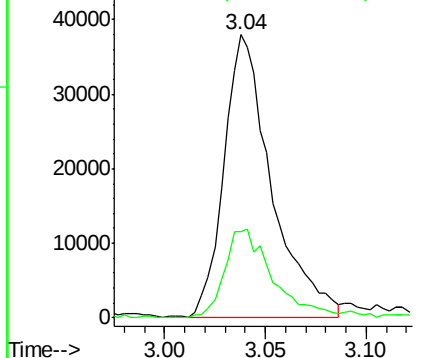
85 100

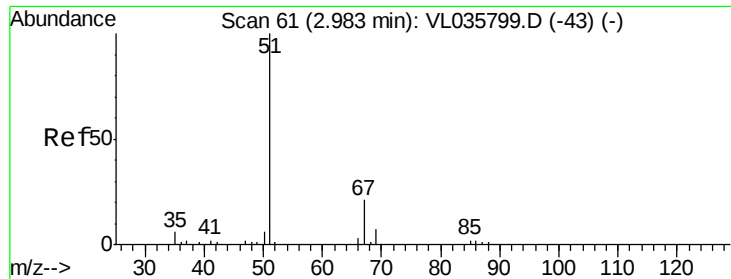
87 30.7 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.450 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL035921.D

Acq: 12 Nov 2020 20:01

Instrument :

MSVOA_L

ClientSampled :

CVS-5

Tot Ion: 51 Resp: 61479

Ion Ratio Lower Upper

51 100

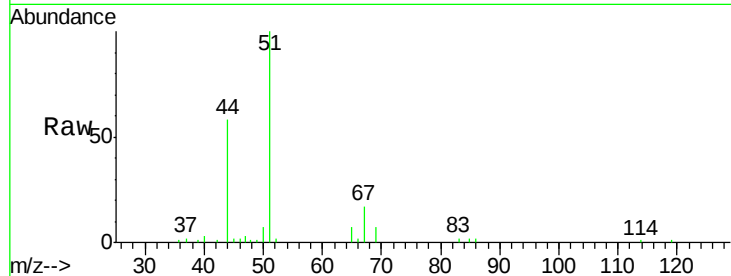
67 17.2 17.0 25.4

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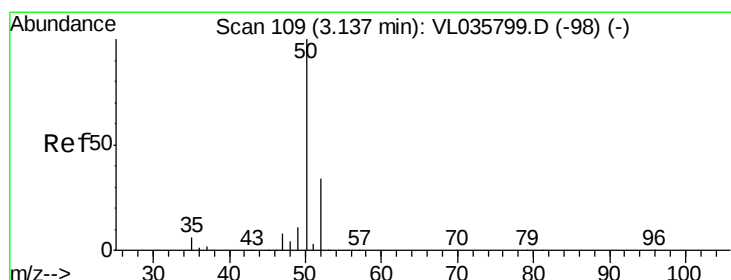
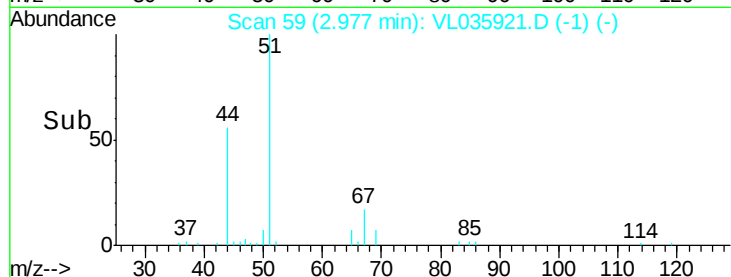
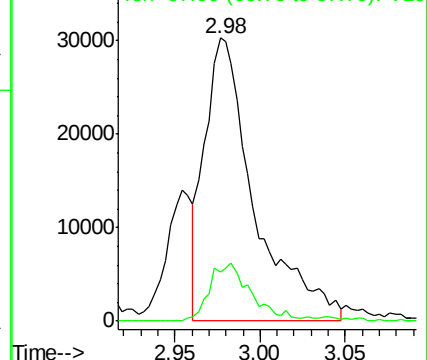
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.510 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035921.D

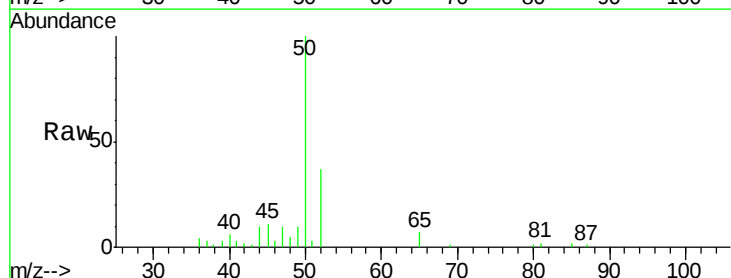
Acq: 12 Nov 2020 20:01

Tgt Ion: 50 Resp: 33820

Ion Ratio Lower Upper

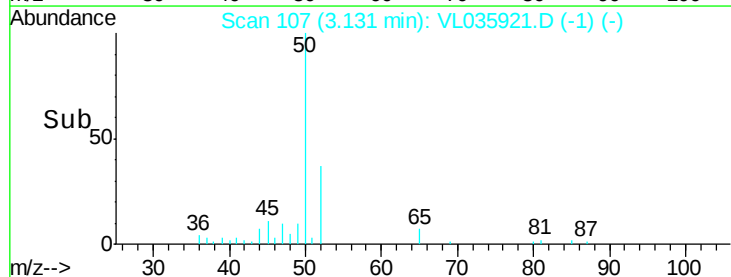
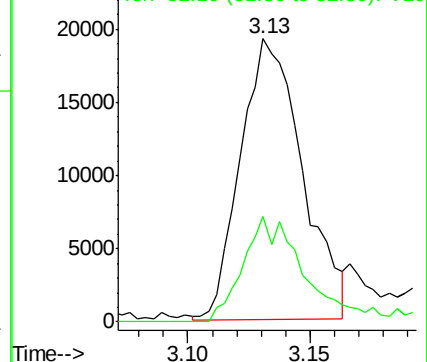
50 100

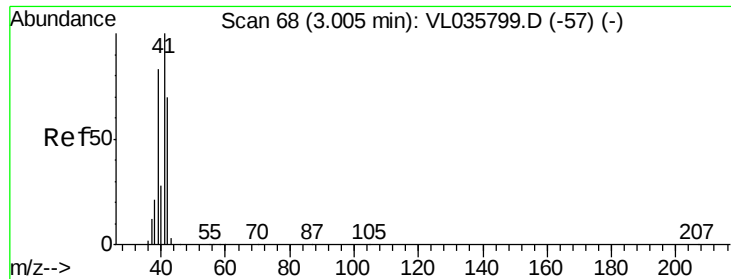
52 37.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.981 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035921.D

Acq: 12 Nov 2020 20:01

Instrument :

MSVOA_L

ClientSampleId :

CVS-5

Tot Ion: 41 Resp: 49013

Ion Ratio Lower Upper

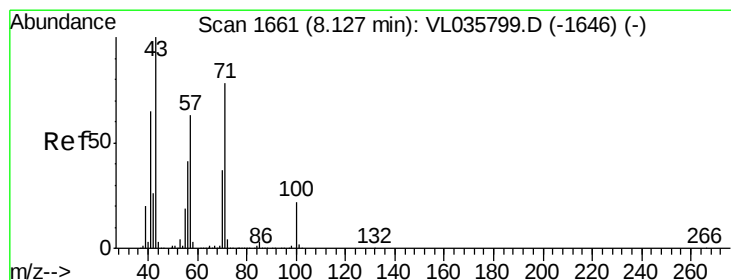
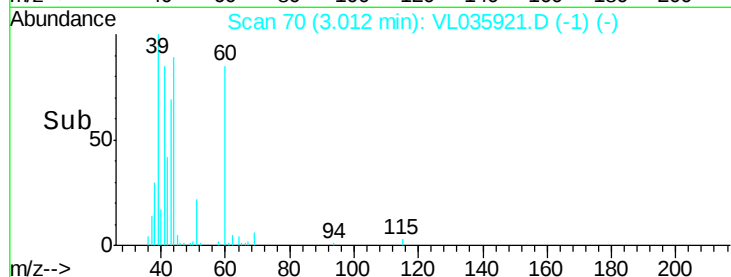
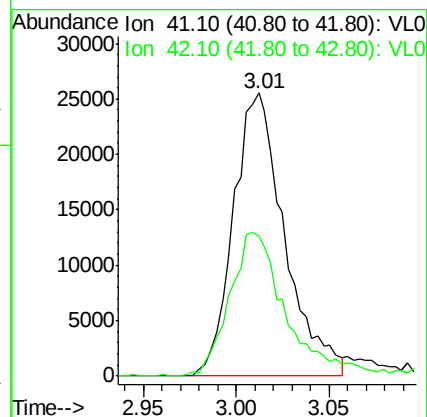
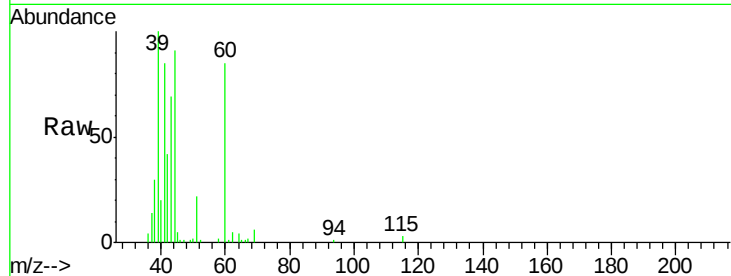
41 100

42 57.8 56.2 84.4

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#10

Heptane

Concen: 0.167 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL035921.D

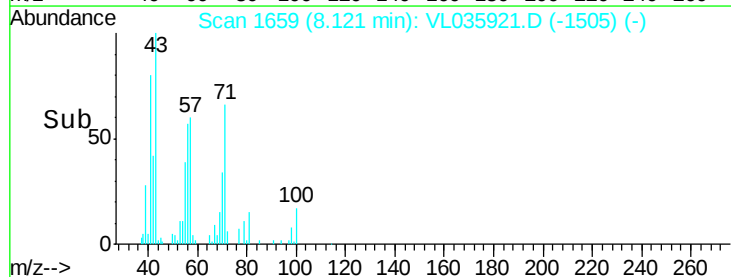
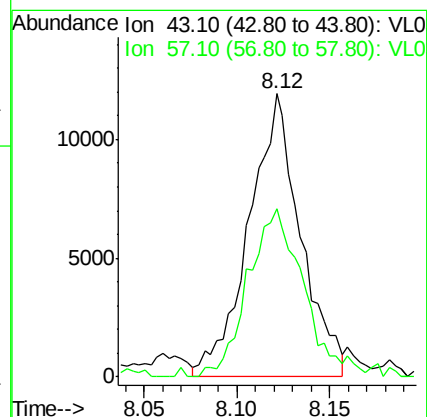
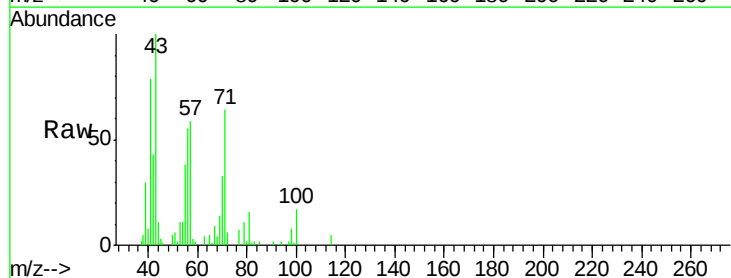
Acq: 12 Nov 2020 20:01

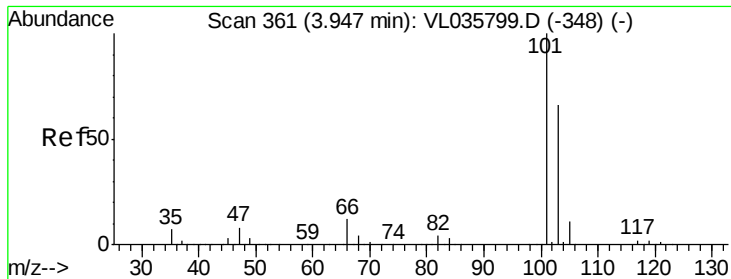
Tgt Ion: 43 Resp: 23089

Ion Ratio Lower Upper

43 100

57 65.2 50.0 75.0





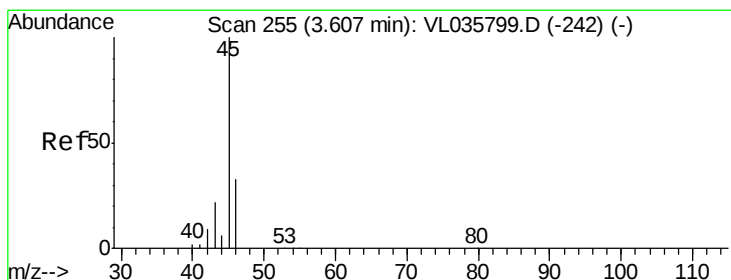
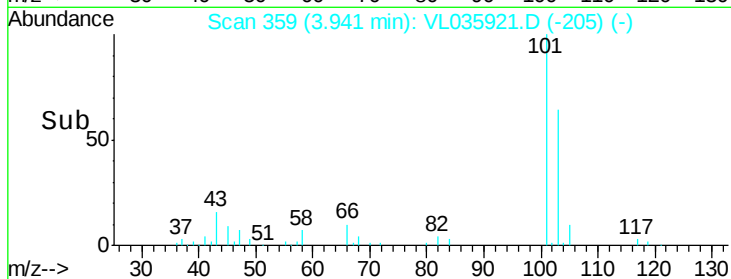
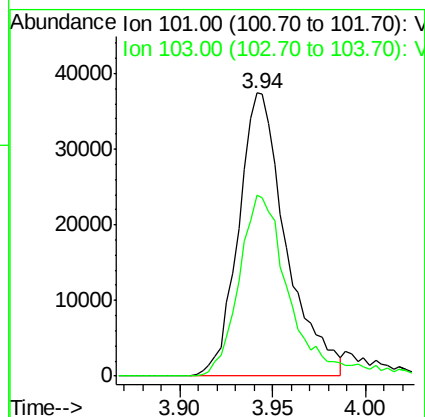
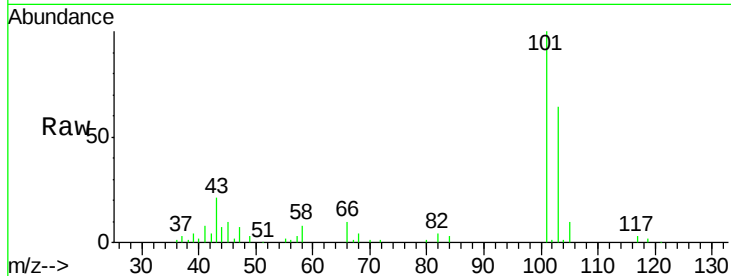
#11
 Trichlorofluoromethane
 Concen: 0.247 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL035921.D
 Acq: 12 Nov 2020 20:01

Instrument :
 MSVOA_L
 ClientSampled :
 CVS-5

Tot Ion:101 Resp: 66516
 Ion Ratio Lower Upper
 101 100
 103 63.8 53.0 79.4

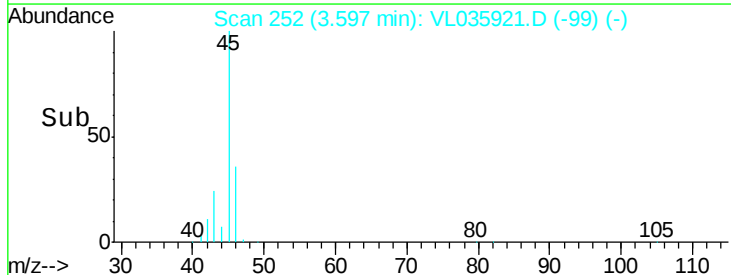
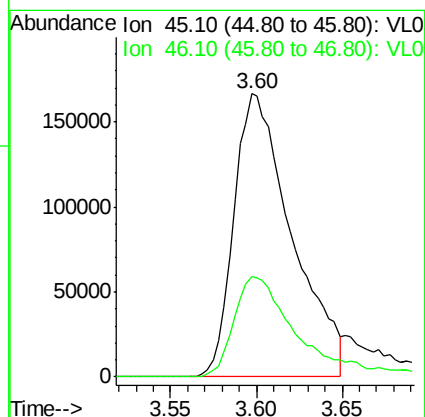
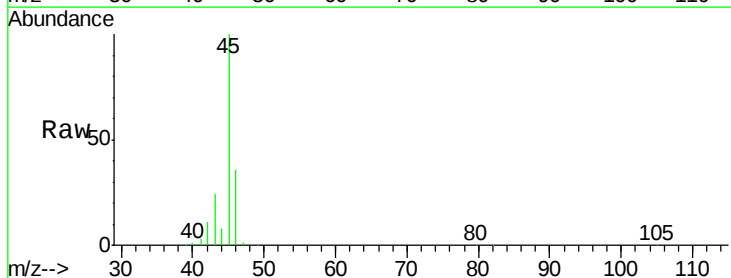
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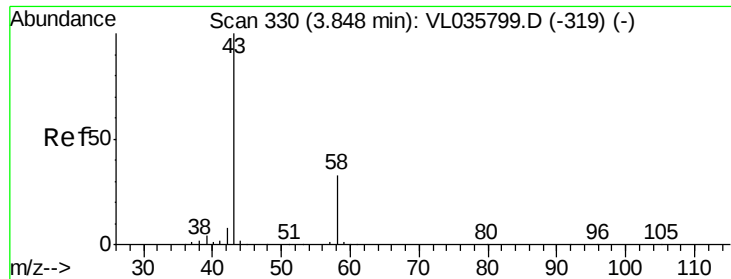
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#13
 Ethanol
 Concen: 36.026 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL035921.D
 Acq: 12 Nov 2020 20:01

Tgt Ion: 45 Resp: 390544
 Ion Ratio Lower Upper
 45 100
 46 40.5 16.1 64.5





#15

Acetone

Concen: 5.148 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035921.D

Acq: 12 Nov 2020 20:01

Instrument :

MSVOA_L

ClientSampled :

CVS-5

Tot Ion: 43 Resp: 627472

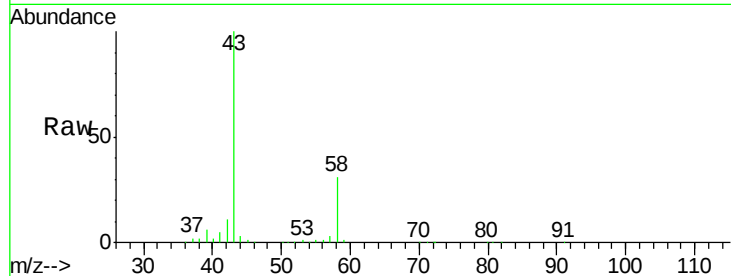
Ion Ratio Lower Upper

43 100

58 28.1 27.5 41.3

Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

300000

250000

200000

150000

100000

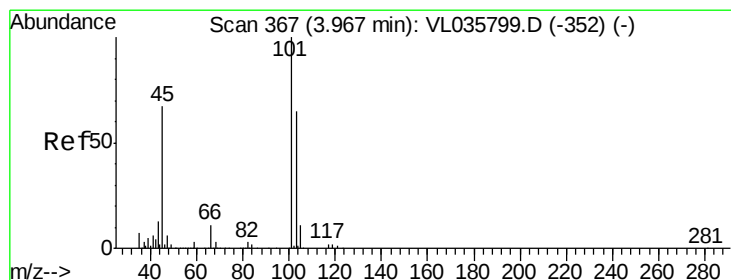
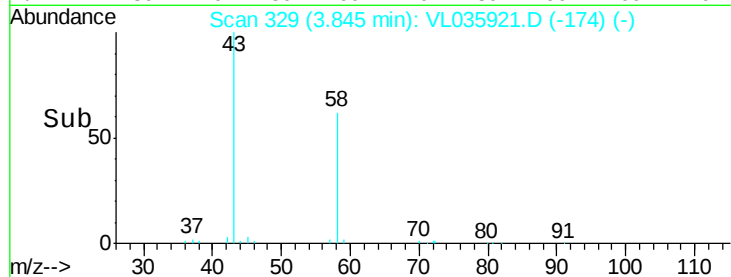
50000

0

3.80

3.90

Time-->



#19

Isopropyl Alcohol

Concen: 2.122 ppbv m

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VL035921.D

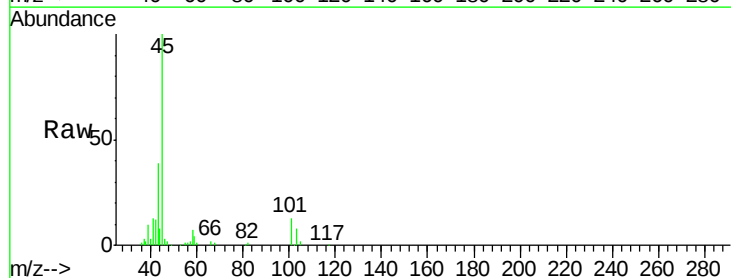
Acq: 12 Nov 2020 20:01

Tgt Ion: 45 Resp: 158929

Ion Ratio Lower Upper

45 100

58 7.8 2.6 3.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

60000

40000

20000

0

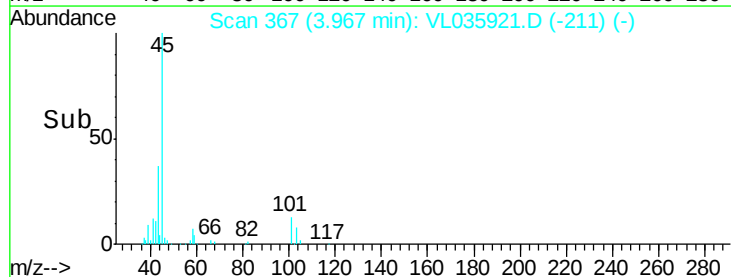
3.90

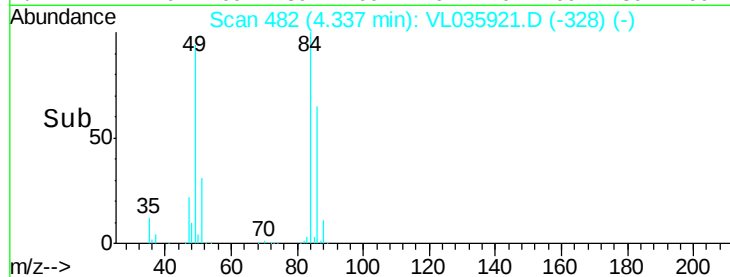
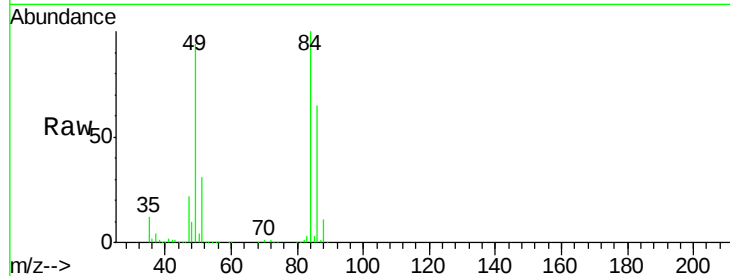
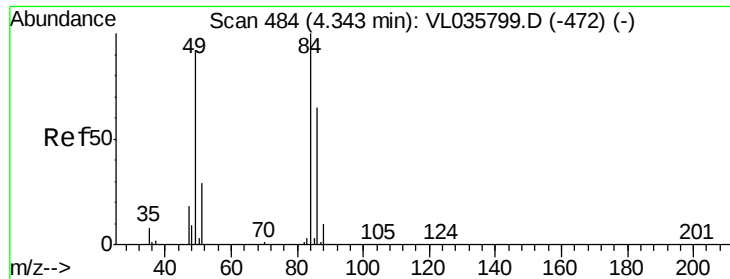
3.95

4.00

4.05

Time-->





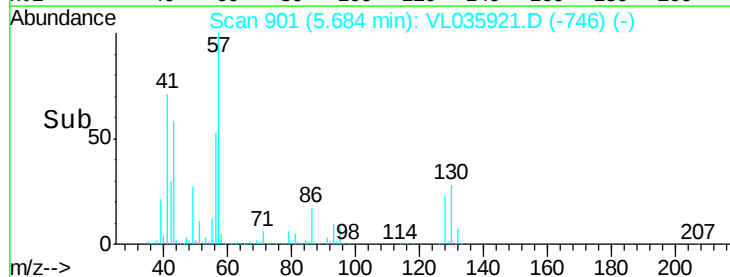
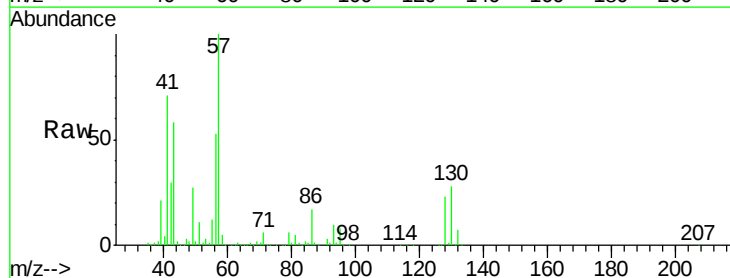
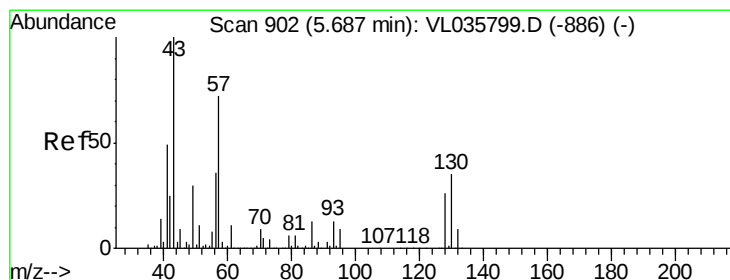
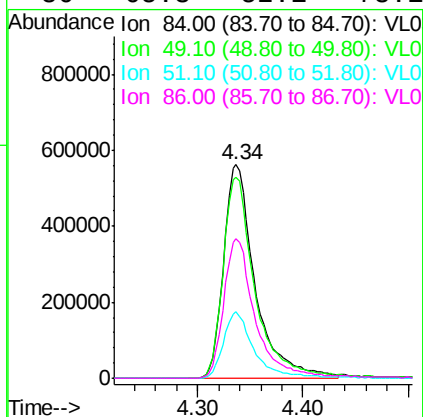
#20
Methvlene Chloride
Concen: 13.591 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Tot Ion	84	Resp	1166155
Ion	Ratio	Lower	Upper
84	100		
49	94.3	73.8	110.8
51	31.0	23.0	34.4
86	65.3	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
CVS-5

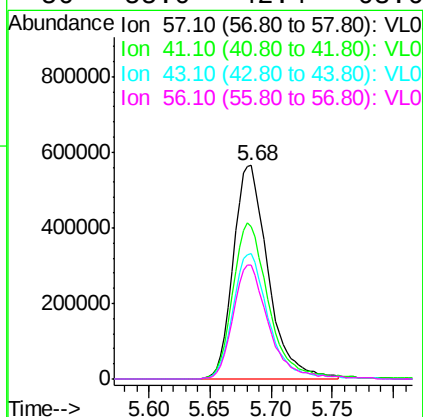
Manual Integrations
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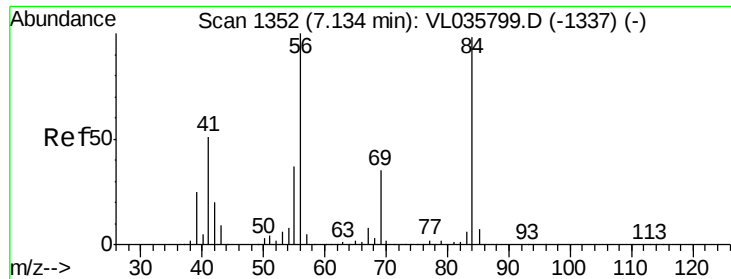
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#26
Hexane
Concen: 8.437 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Tgt Ion	57	Resp	1117167
Ion	Ratio	Lower	Upper
57	100		
41	75.6	58.9	88.3
43	60.7	150.2	225.2#
56	55.0	42.4	63.6





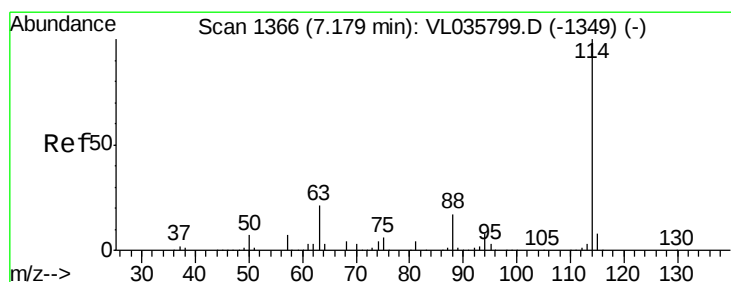
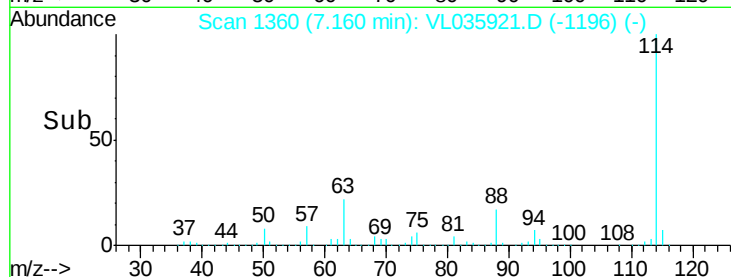
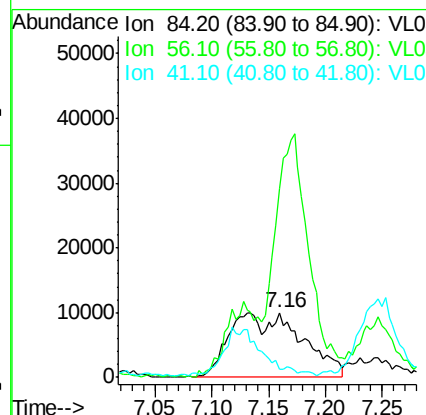
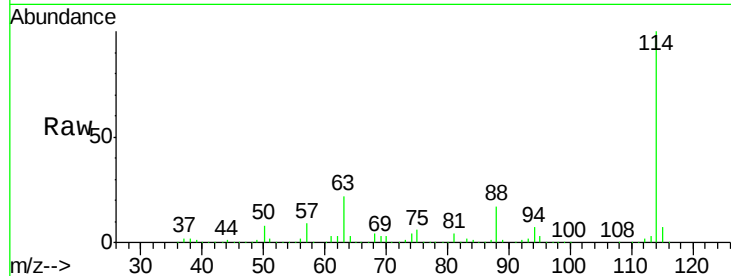
#30
Cvclohexane
Concen: 0.304 ppbv m
RT: 7.16 min Scan# 1360
Delta R.T. 0.03 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Instrument :
MSVOA_L
ClientSampled :
CVS-5

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	86.4	129.6#
41	42.3	42.1	63.1

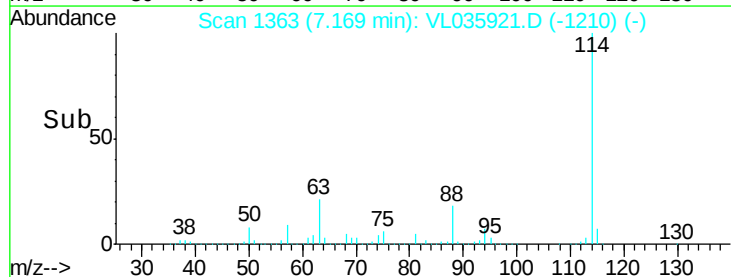
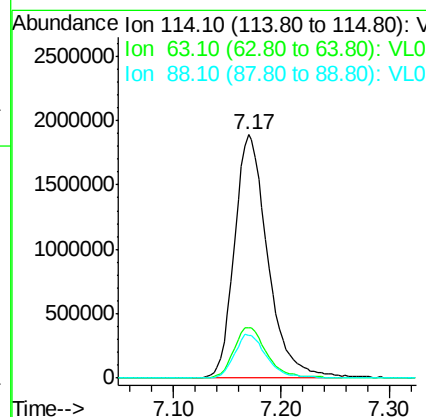
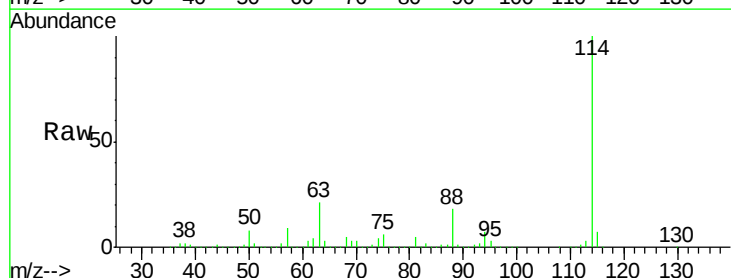
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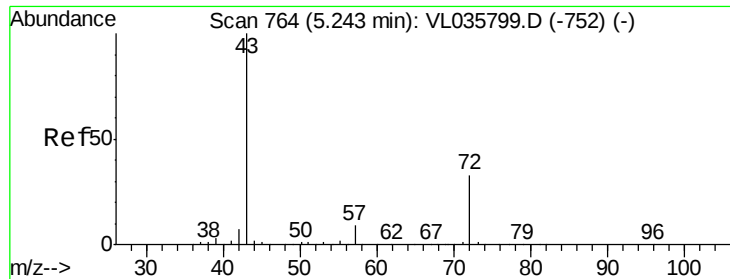
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.0	16.1	24.1
88	17.5	13.7	20.5





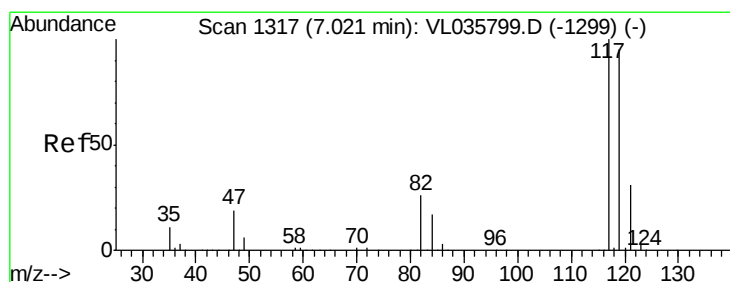
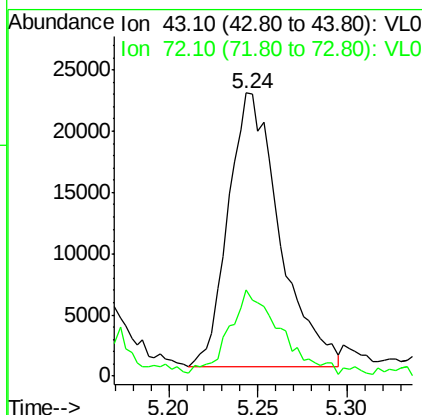
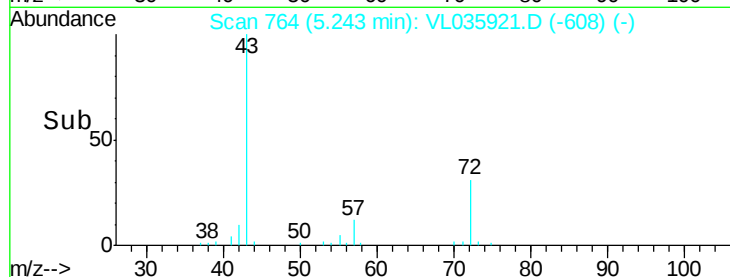
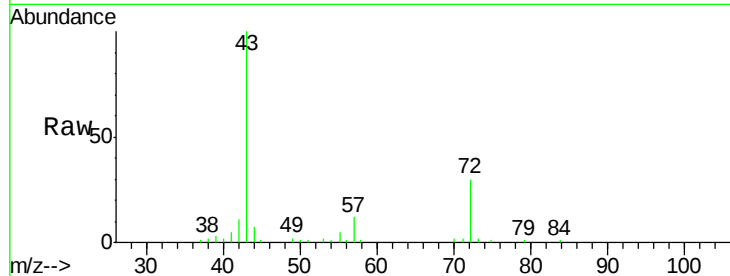
#34
2-Butanone
Concen: 0.338 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.00 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Instrument :
MSVOA_L
ClientSampled :
CVS-5

Tot Ion: 43 Resp: 44593
Ion Ratio Lower Upper
43 100
72 32.5 26.5 39.7

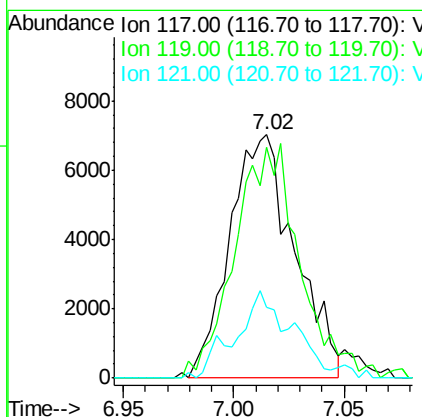
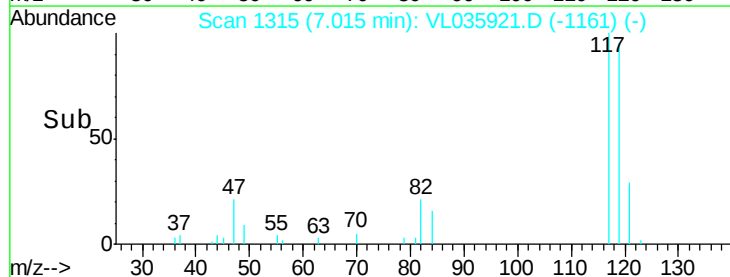
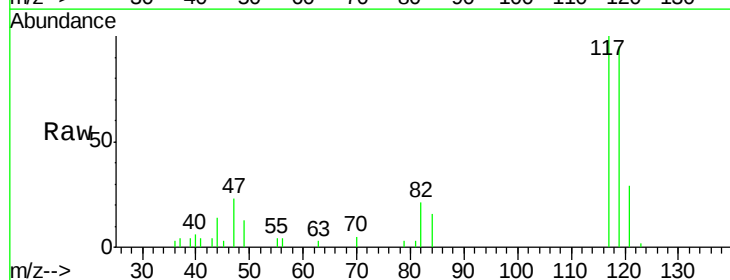
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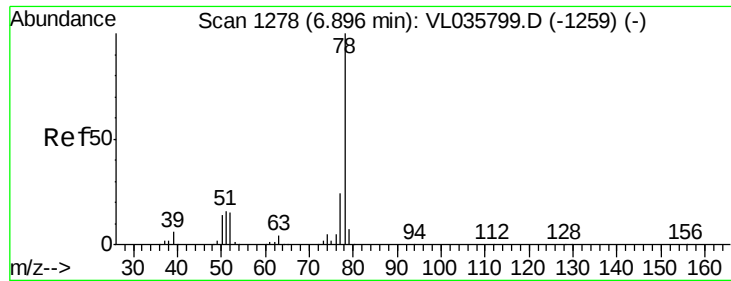
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#35
Carbon Tetrachloride
Concen: 0.066 ppbv
RT: 7.02 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Tgt Ion: 117 Resp: 14389
Ion Ratio Lower Upper
117 100
119 88.0 75.6 113.4
121 26.7 25.1 37.7





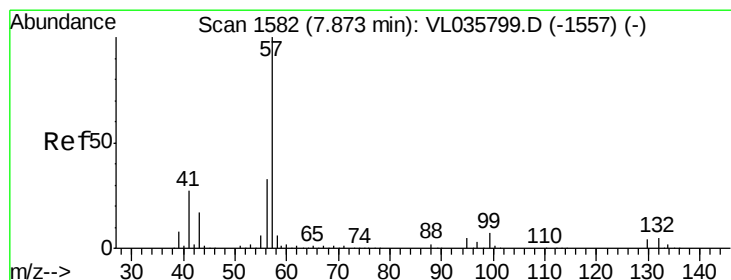
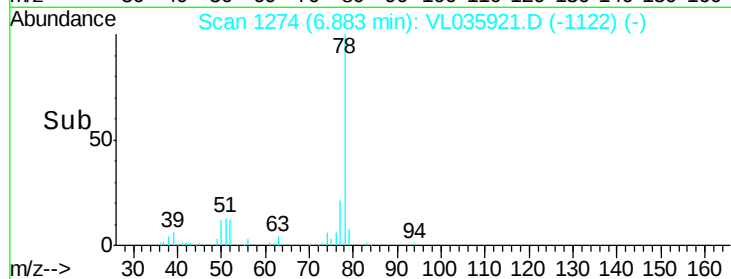
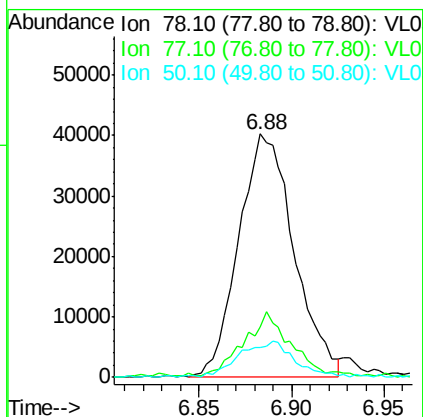
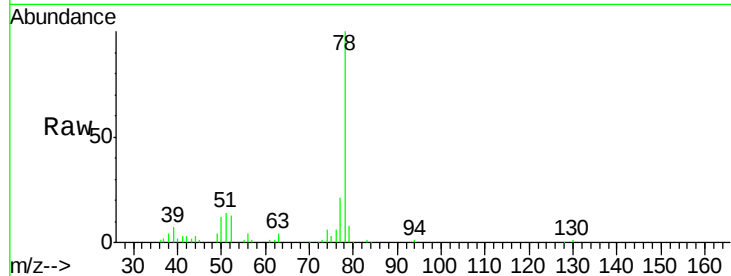
#36
Benzene
Concen: 0.278 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Instrument :
MSVOA_L
ClientSampled :
CVS-5

Tot Ion	Ratio	Lower	Upper
78	100		
77	18.9	19.3	28.9#
50	11.9	11.4	17.2

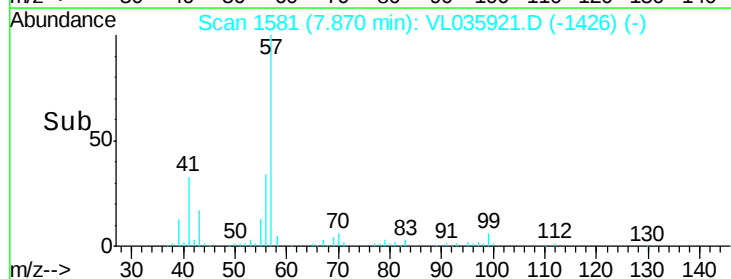
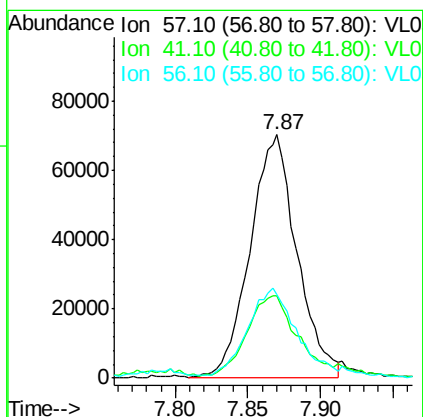
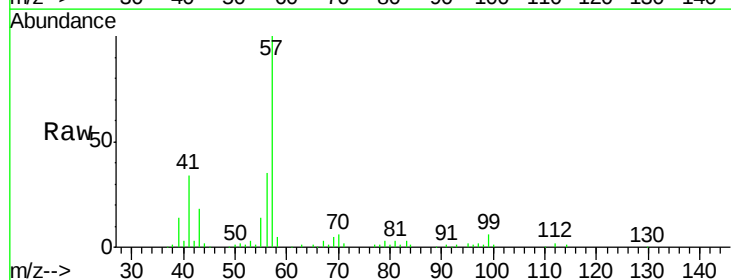
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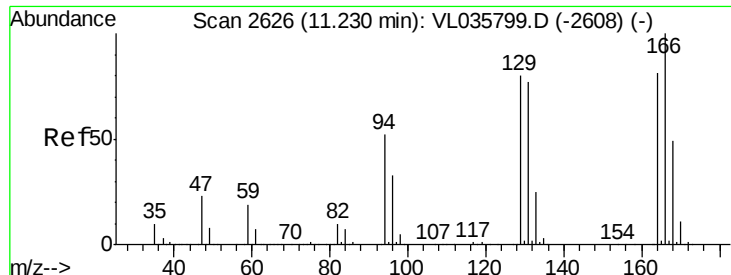
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#44
2,2,4-Trimethylpentane
Concen: 0.394 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Tgt Ion	Ratio	Lower	Upper
57	100		
41	41.5	21.0	31.4#
56	41.7	25.4	38.0#





#52

Tetrachloroethene

Concen: 0.039 ppbv m

RT: 11.22 min Scan# 2624

Delta R.T. -0.01 min

Lab File: VL035921.D

Acq: 12 Nov 2020 20:01

Instrument :

MSVOA_L

ClientSampled :

CVS-5

Tot Ion:164 Resp: 5568

Ion Ratio Lower Upper

164 100

166 130.5 99.3 148.9

129 108.9 79.3 118.9

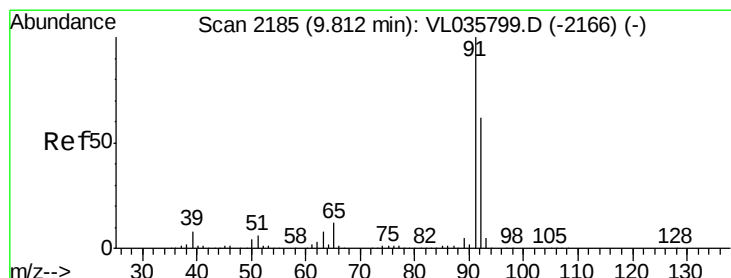
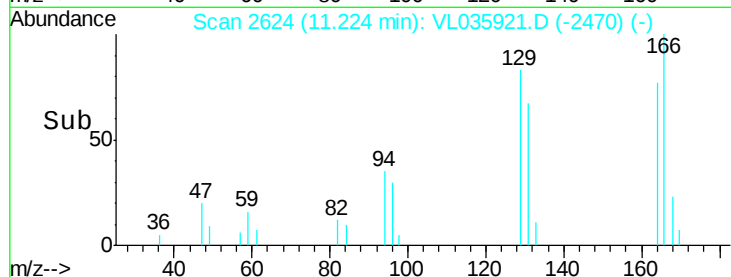
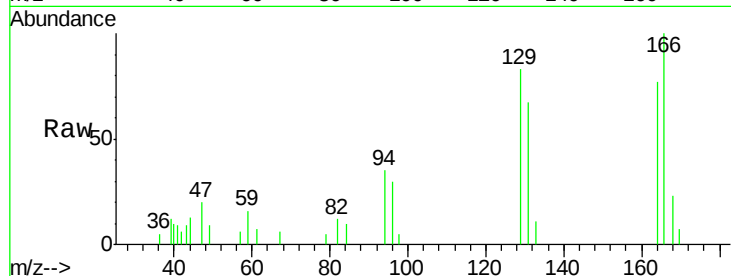
131 87.1 76.5 114.7

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#53

Toluene

Concen: 4.966 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL035921.D

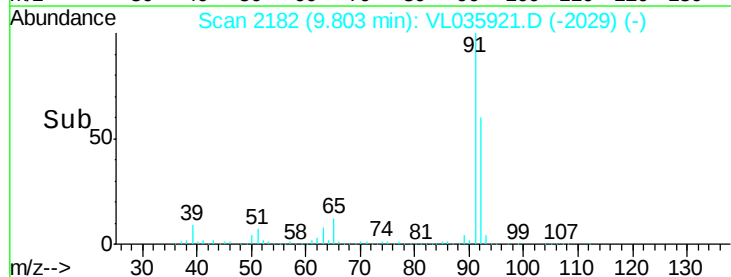
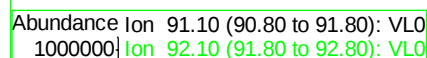
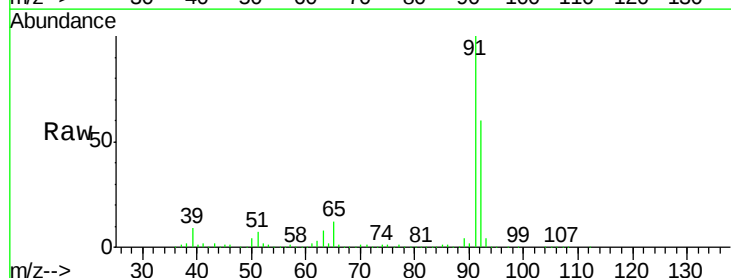
Acq: 12 Nov 2020 20:01

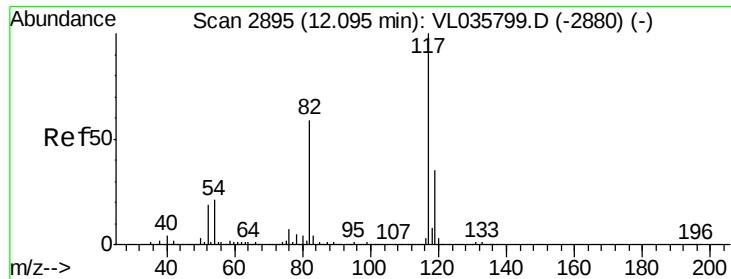
Tgt Ion: 91 Resp: 1809679

Ion Ratio Lower Upper

91 100

92 60.1 49.8 74.6





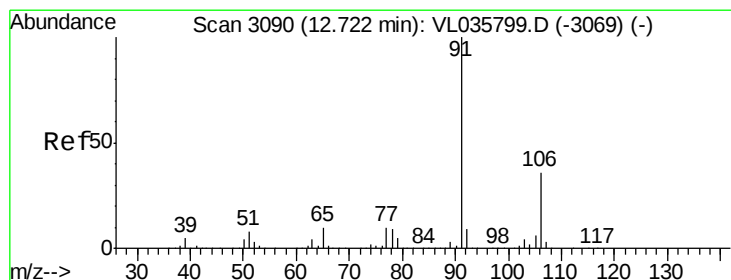
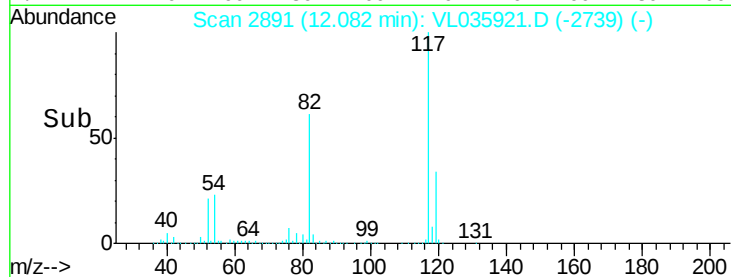
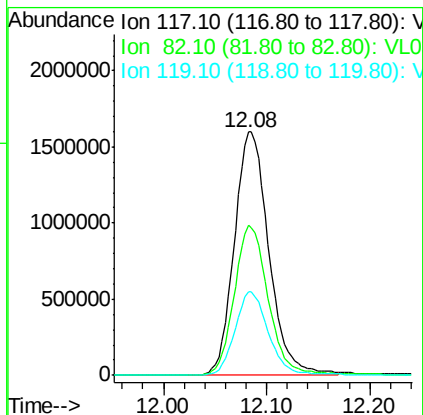
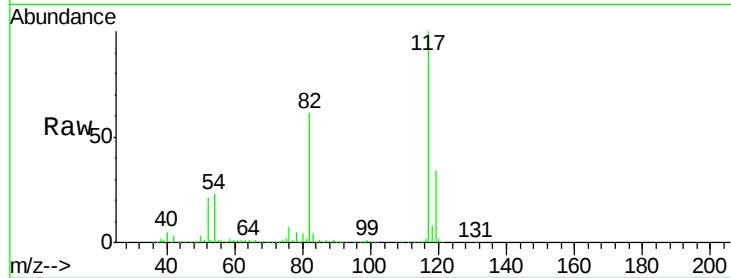
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Instrument :
MSVOA_L
ClientSampleId :
CVS-5

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.0	50.6	76.0
119	33.9	52.6	78.8#

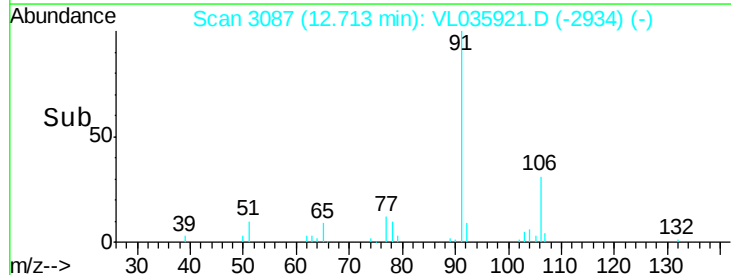
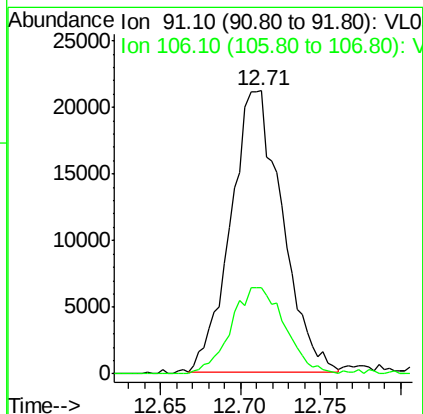
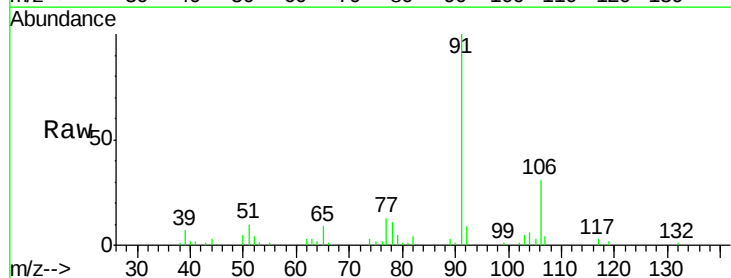
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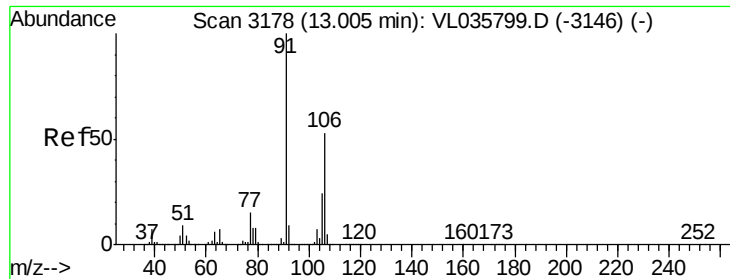
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#58
Ethyl Benzene
Concen: 0.102 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.8	28.6	43.0





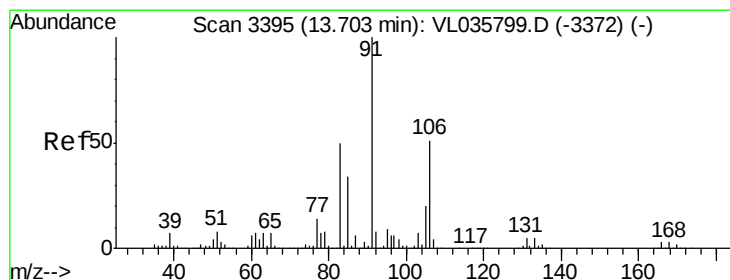
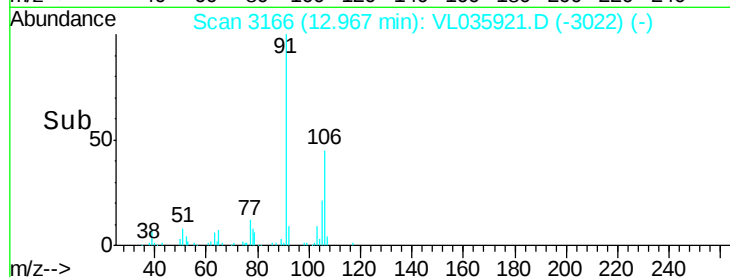
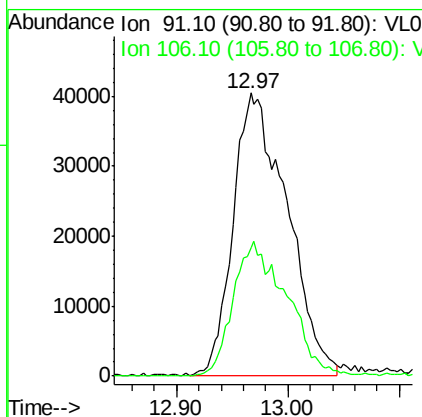
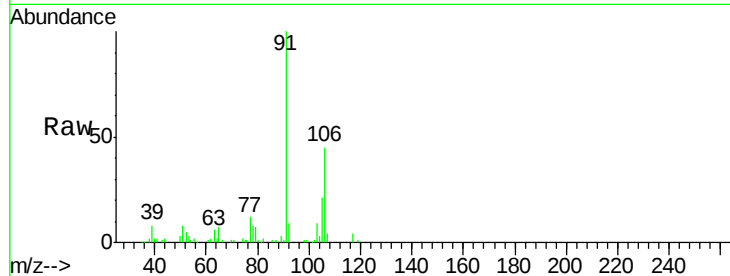
#59
m/p-Xylene
Concen: 0.353 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Instrument :
MSVOA_L
ClientSampled :
CVS-5

Tot Ion: 91 Resp: 135760
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#

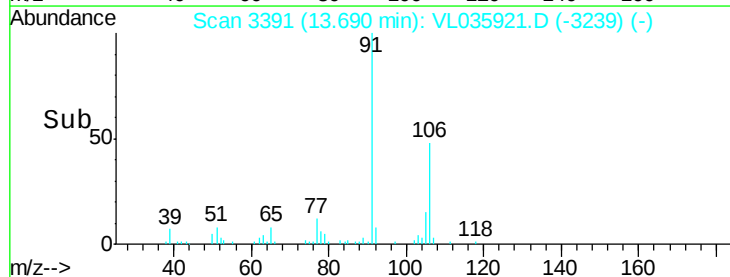
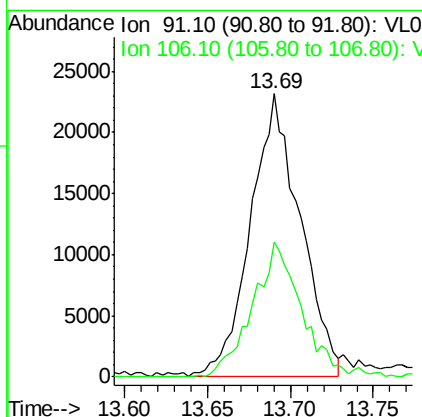
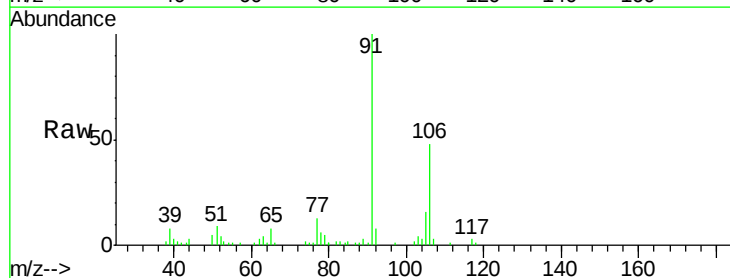
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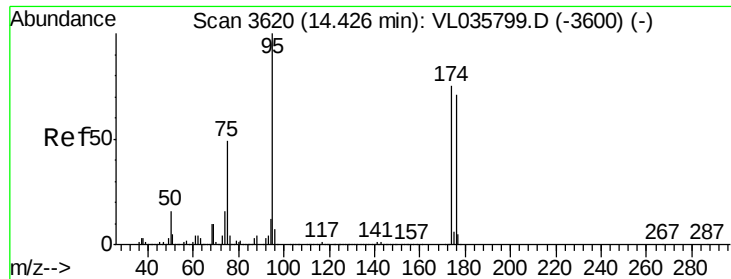
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#60
o-Xylene
Concen: 0.130 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL035921.D
Acq: 12 Nov 2020 20:01

Tgt Ion: 91 Resp: 48434
Ion Ratio Lower Upper
91 100
106 47.3 24.8 74.4





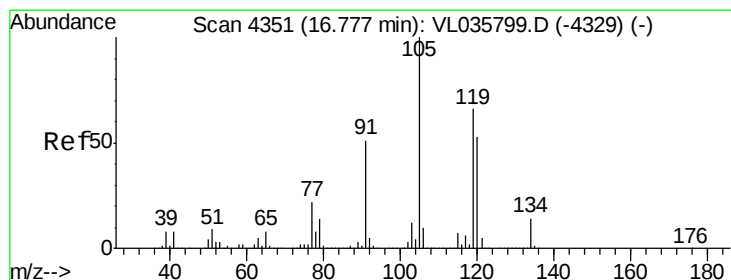
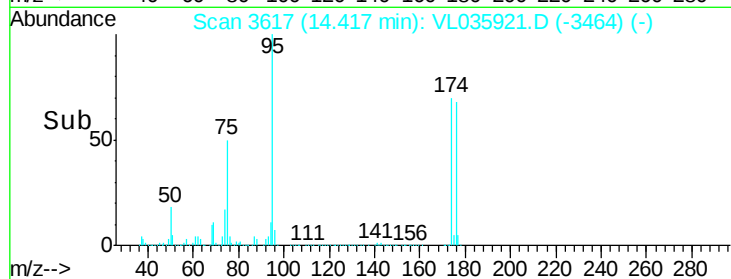
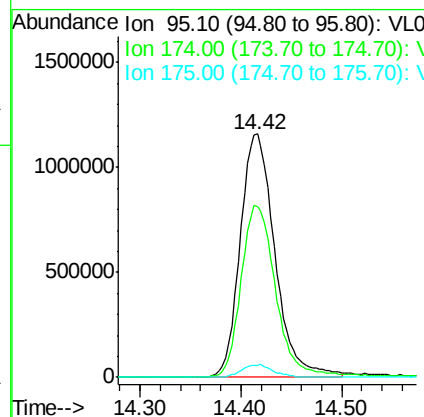
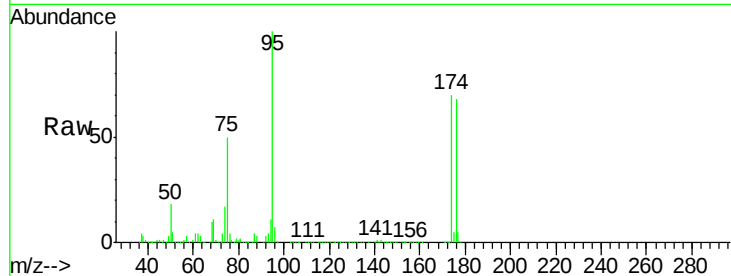
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.455 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL035921.D
 Acq: 12 Nov 2020 20:01

Instrument :
 MSVOA_L
 ClientSampleId :
 CVS-5

Tot Ion: 95 Resp: 2770671
 Ion Ratio Lower Upper
 95 100
 174 72.4 59.8 89.6
 175 4.9 4.3 6.5

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.147 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL035921.D
 Acq: 12 Nov 2020 20:01

Tgt Ion: 105 Resp: 65350
 Ion Ratio Lower Upper
 105 100
 120 44.8 42.0 63.0
 91 11.8 41.0 61.6#
 77 14.4 17.3 25.9#

