

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035809.D
 Acq On : 3 Nov 2020 18:42
 Operator : SY/AP
 Sample : L4604-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:13:44 PM

Quant Time: Nov 04 05:33:50 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	5.65	49	1106849	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	5105112	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	4706811	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	3388285	10.13	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	68136	0.327	ppbv	98
3) Chlorodifluoromethane	2.97	51	49629	0.374	ppbv	92
4) Chloromethane	3.12	50	33417	0.519	ppbv	98
9) Propene	3.00	41	36925	0.761	ppbv	87
10) Heptane	8.10	43	16416m	0.123	ppbv	
11) Trichlorofluoromethane	3.93	101	58438	0.223	ppbv	91
13) Ethanol	3.59	45	94013	8.932	ppbv	96
15) Acetone	3.84	43	388980	3.287	ppbv #	88
19) Isopropyl Alcohol	3.97	45	28753	0.395	ppbv #	1
20) Methylene Chloride	4.33	84	117453	1.410	ppbv	99
26) Hexane	5.67	57	103201	0.803	ppbv #	47
30) Cyclohexane	7.12	84	22783	0.163	ppbv #	28
34) 2-Butanone	5.24	43	36050	0.218	ppbv	90
35) Carbon Tetrachloride	7.01	117	18583m	0.068	ppbv	
36) Benzene	6.87	78	95263	0.251	ppbv	95
44) 2,2,4-Trimethylpentane	7.85	57	118090	0.235	ppbv	93
53) Toluene	9.79	91	468967	1.024	ppbv	99
59) m/p-Xylene	12.95	91	108975	0.225	ppbv	97

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

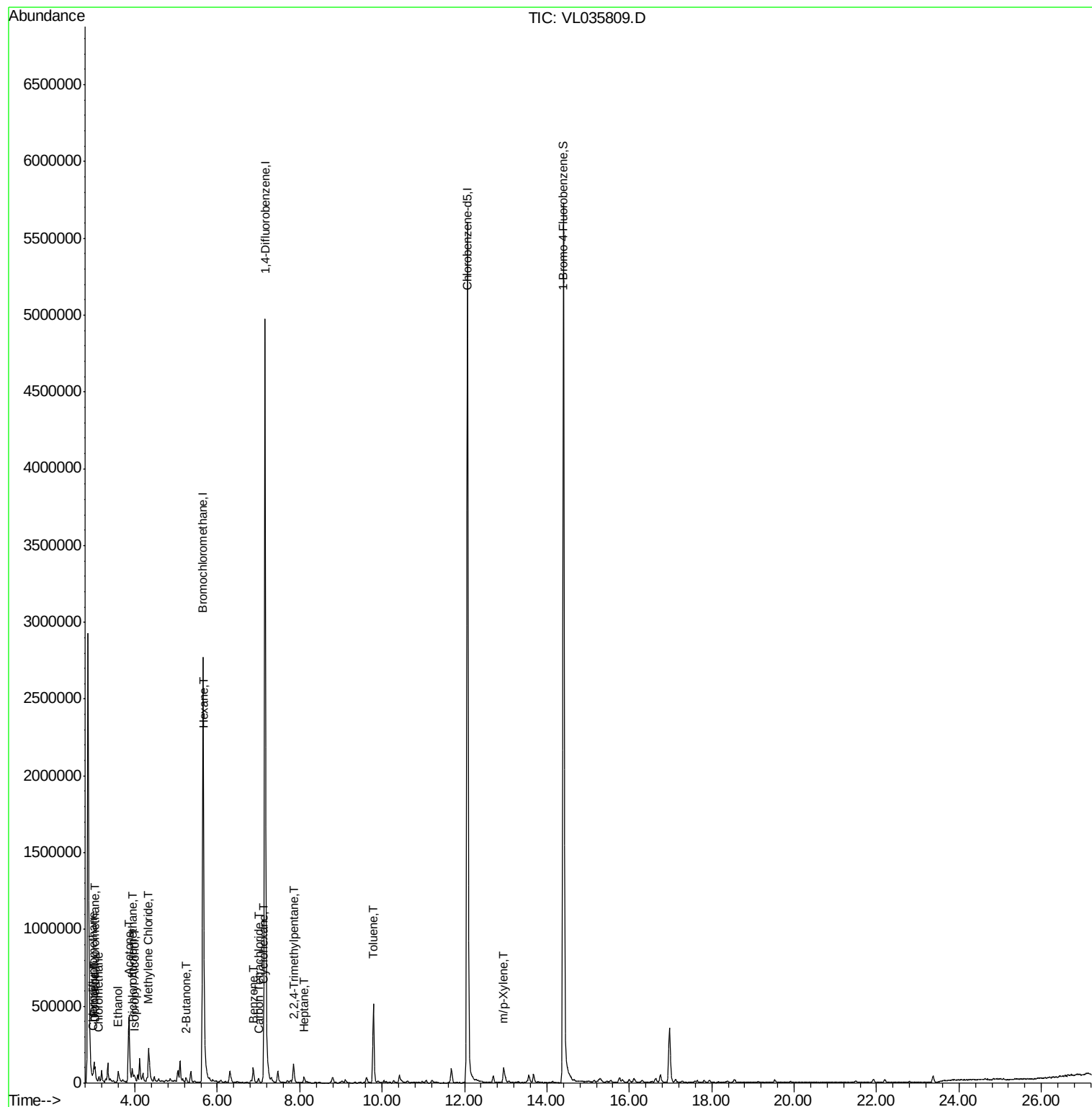
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110320\
Data File : VL035809.D
Acq On : 3 Nov 2020 18:42
Operator : SY/AP
Sample : L4604-05
Misc : 400ml/MSVOA L
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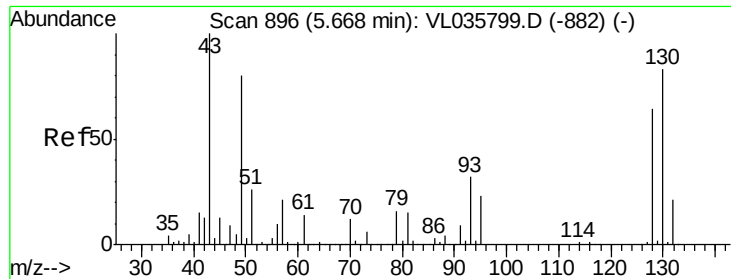
Instrument :
MSVOA_L
ClientSampleId :
OA1

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MMDadoda
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Quant Time: Nov 04 05:33:50 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: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035809.D

Acq: 3 Nov 2020 18:42

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 49 Resp: 1106849

Ion Ratio Lower Upper

49 100

128 95.0 41.5 124.6

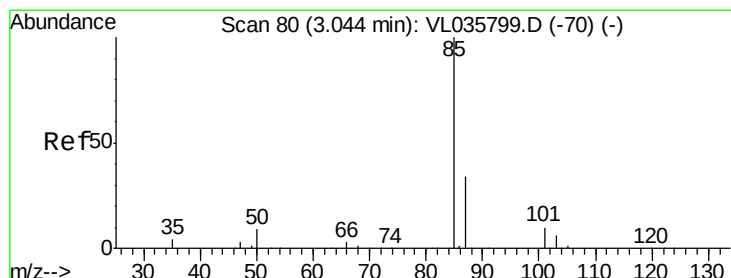
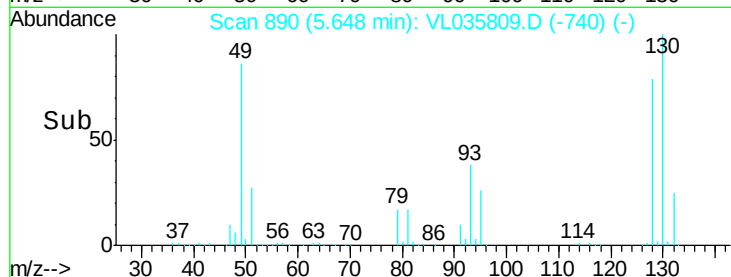
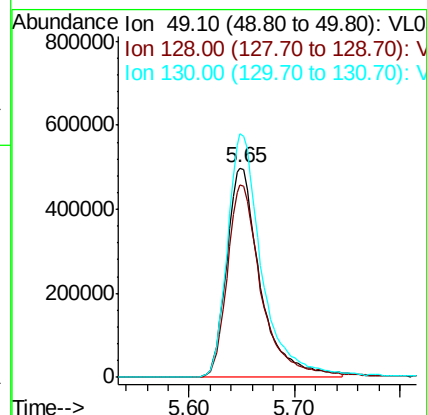
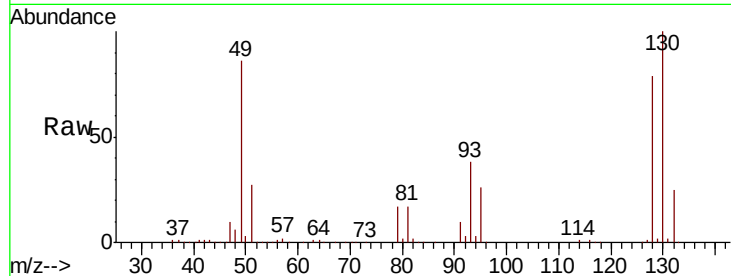
130 120.3 53.7 161.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.327 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL035809.D

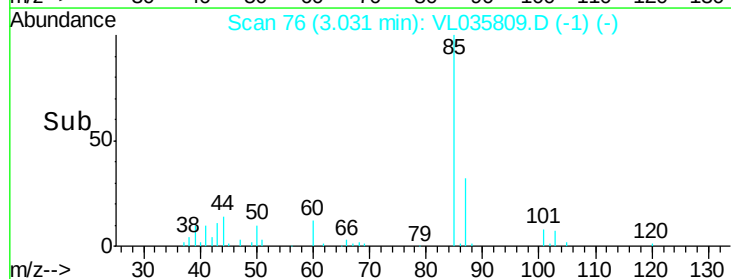
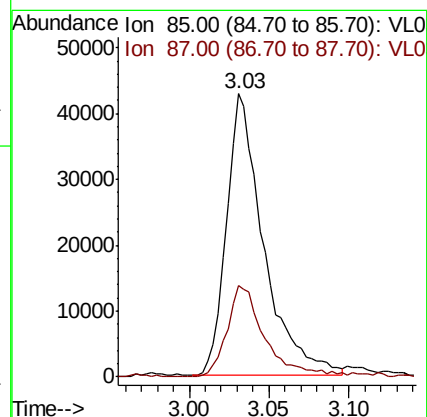
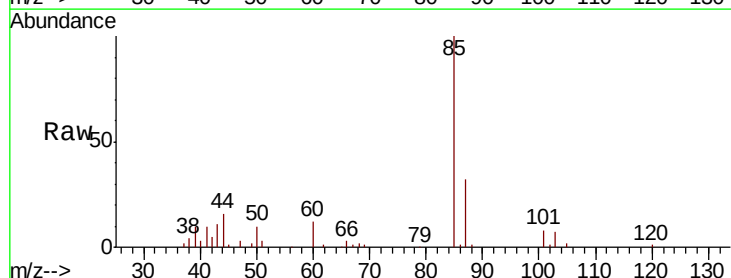
Acq: 3 Nov 2020 18:42

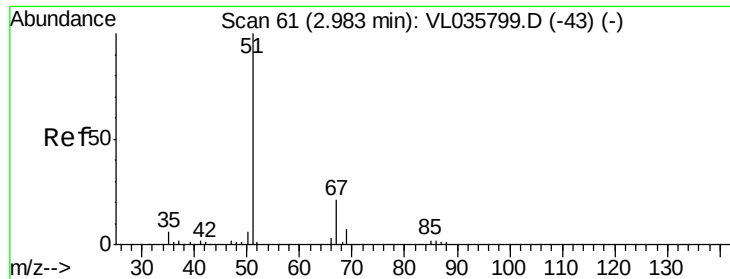
Tgt Ion: 85 Resp: 68136

Ion Ratio Lower Upper

85 100

87 32.6 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.374 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL035809.D

Acq: 3 Nov 2020 18:42

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 51 Resp: 49629

Ion Ratio Lower Upper

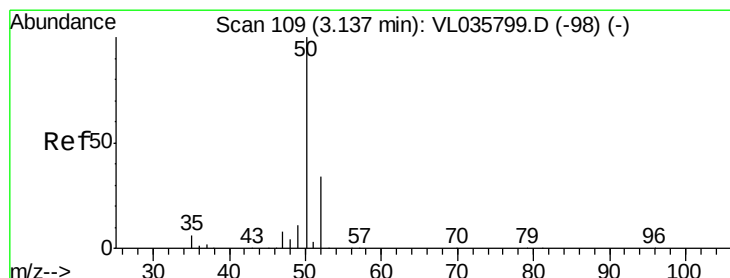
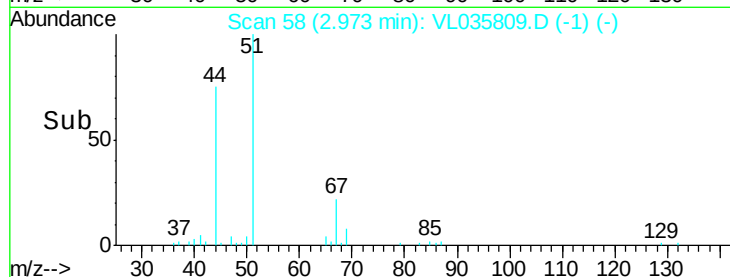
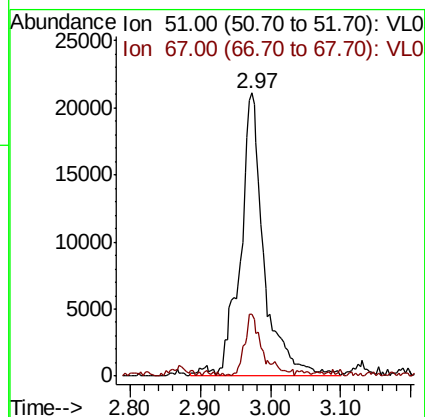
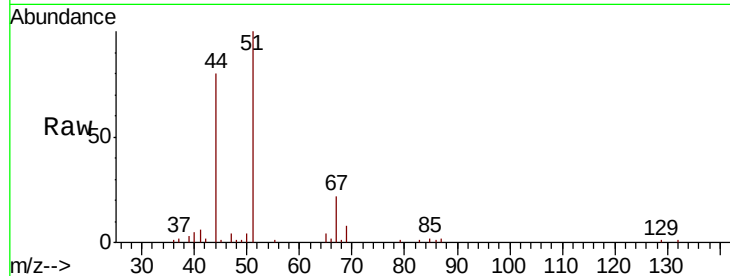
51 100

67 17.4 17.0 25.4

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#4

Chloromethane

Concen: 0.519 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL035809.D

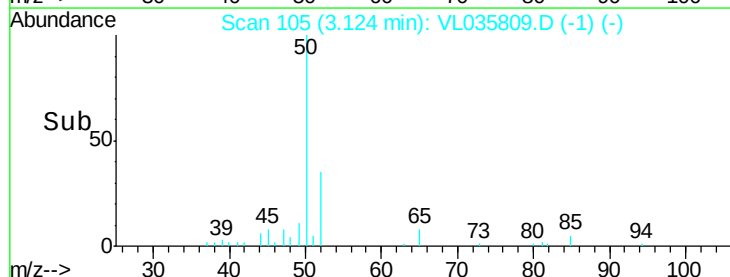
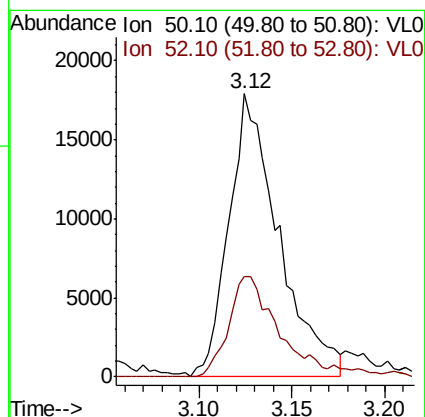
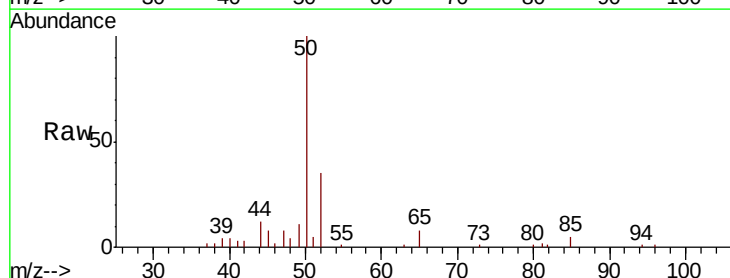
Acq: 3 Nov 2020 18:42

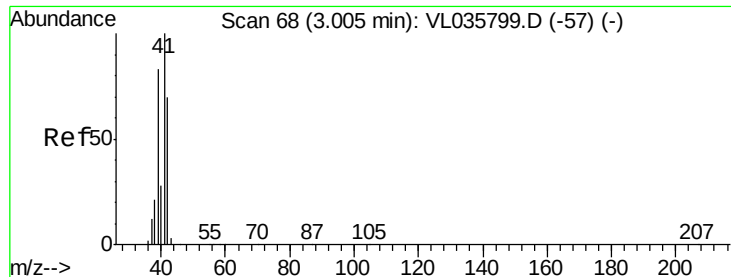
Tgt Ion: 50 Resp: 33417

Ion Ratio Lower Upper

50 100

52 35.3 27.1 40.7





#9

Propene

Concen: 0.761 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035809.D

Acq: 3 Nov 2020 18:42

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 41 Resp: 36925

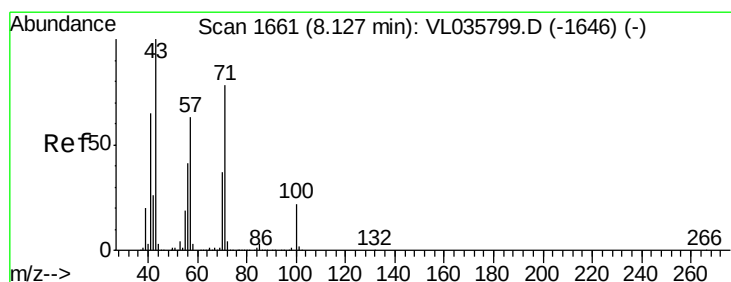
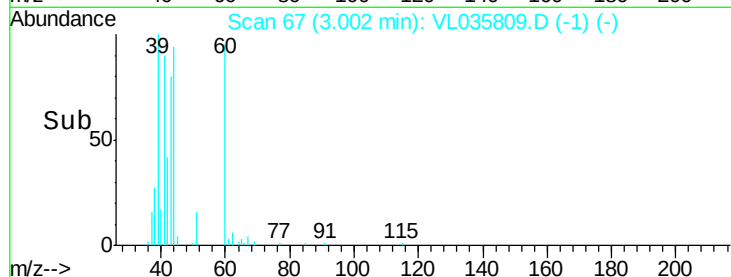
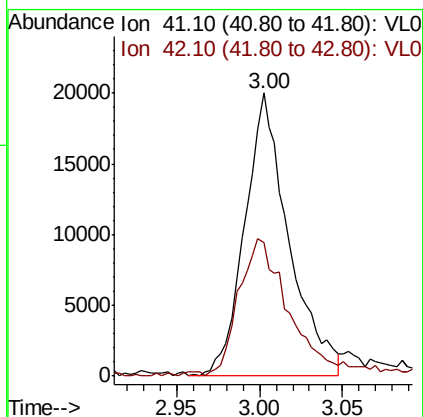
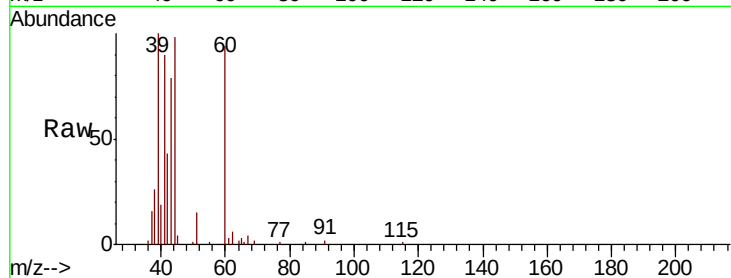
Ion Ratio Lower Upper

41 100

42 59.2 56.2 84.4

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#10

Heptane

Concen: 0.123 ppbv m

RT: 8.10 min Scan# 1653

Delta R.T. -0.03 min

Lab File: VL035809.D

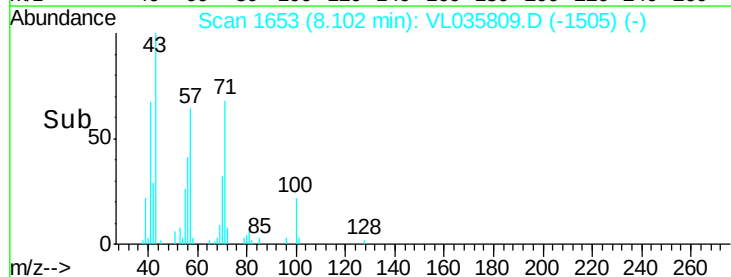
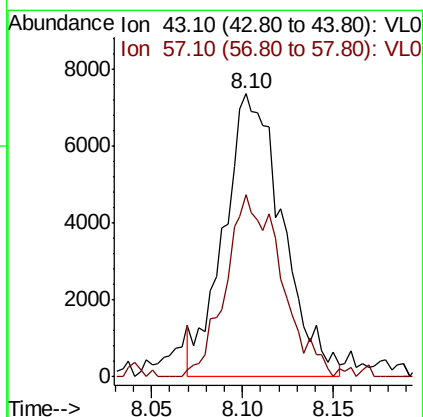
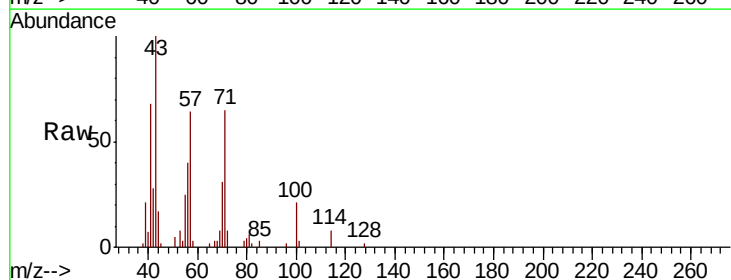
Acq: 3 Nov 2020 18:42

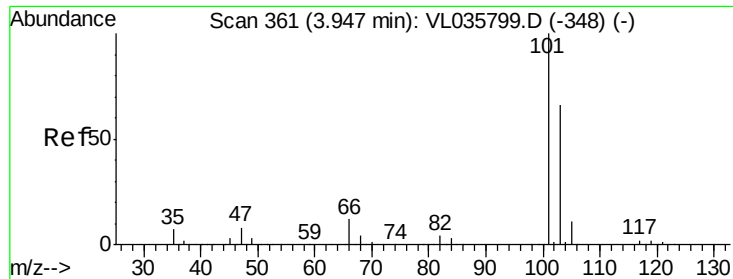
Tgt Ion: 43 Resp: 16416

Ion Ratio Lower Upper

43 100

57 62.3 50.0 75.0





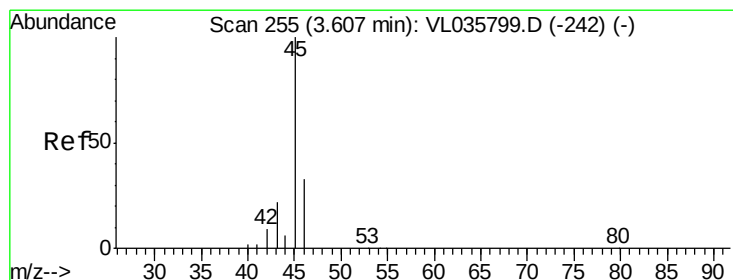
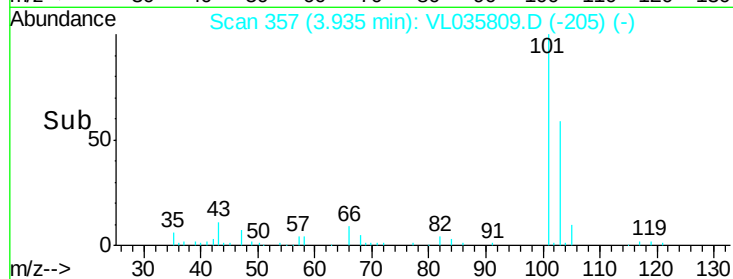
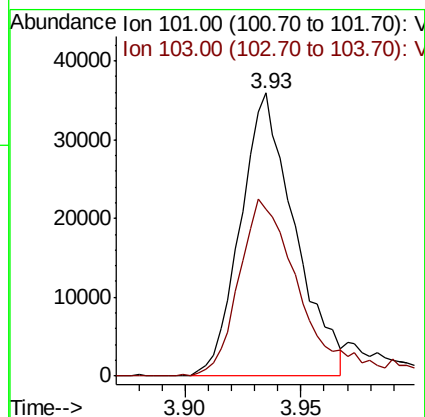
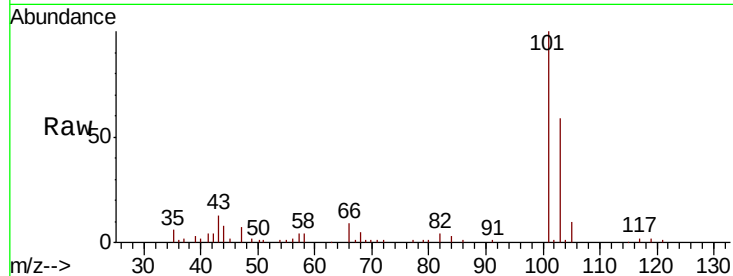
#11
 Trichlorofluoromethane
 Concen: 0.223 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.01 min
 Lab File: VL035809.D
 Acq: 3 Nov 2020 18:42

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion:101 Resp: 58438
 Ion Ratio Lower Upper
 101 100
 103 59.0 53.0 79.4

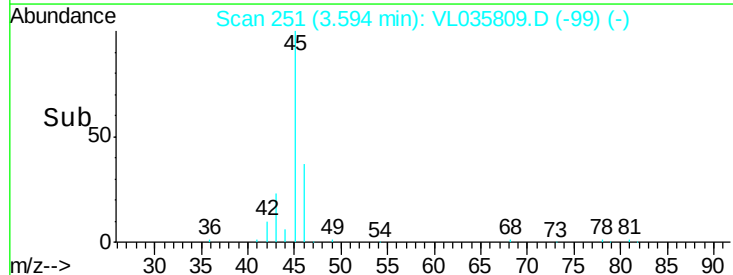
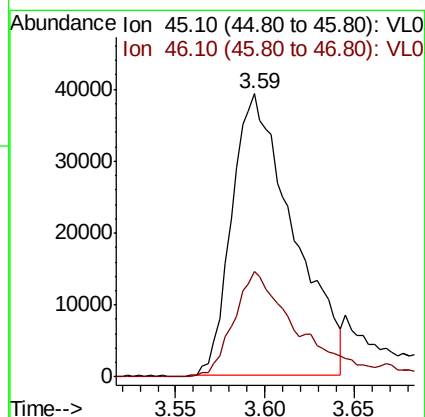
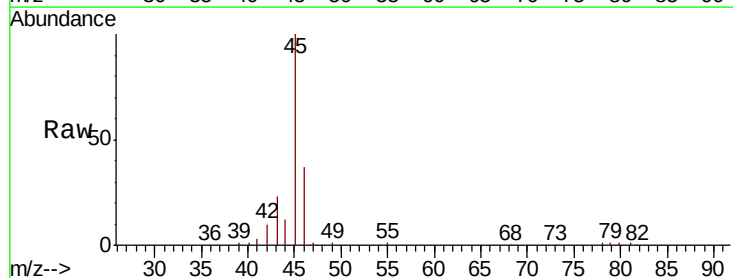
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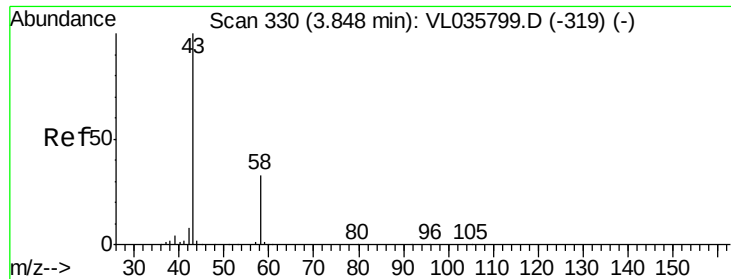
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 11/5/2020 2:13:44 PM



#13
 Ethanol
 Concen: 8.932 ppbv
 RT: 3.59 min Scan# 251
 Delta R.T. -0.01 min
 Lab File: VL035809.D
 Acq: 3 Nov 2020 18:42

Tgt Ion: 45 Resp: 94013
 Ion Ratio Lower Upper
 45 100
 46 42.6 16.1 64.5





#15

Acetone

Concen: 3.287 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035809.D

Acq: 3 Nov 2020 18:42

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 43 Resp: 388980

Ion Ratio Lower Upper

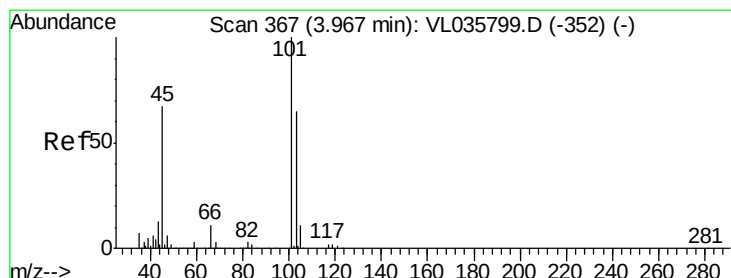
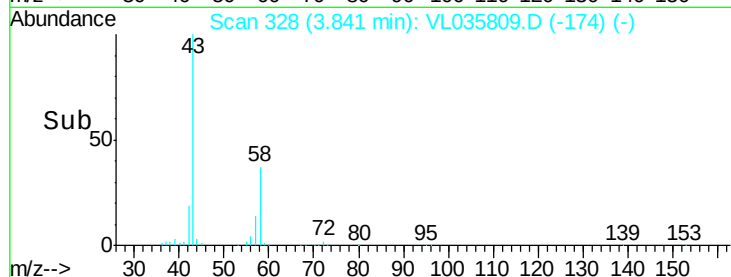
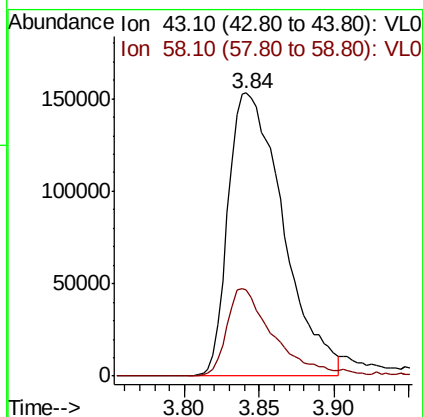
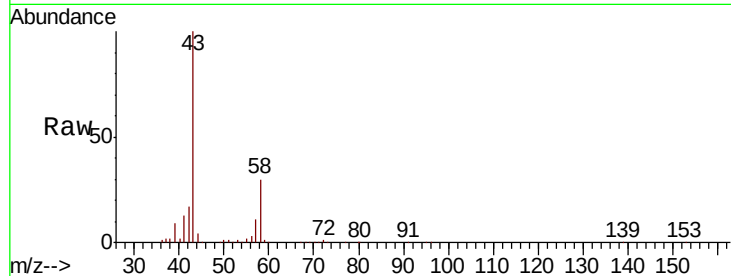
43 100

58 27.3 27.5 41.3#

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 0.395 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL035809.D

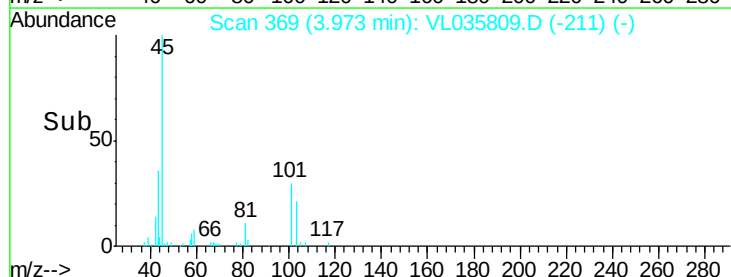
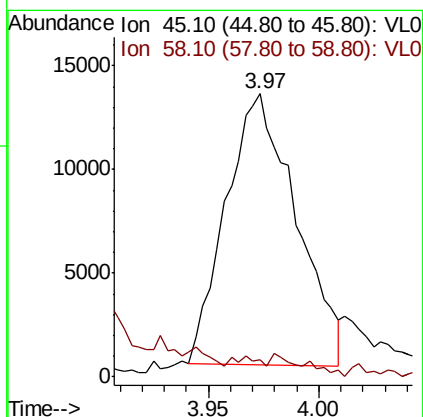
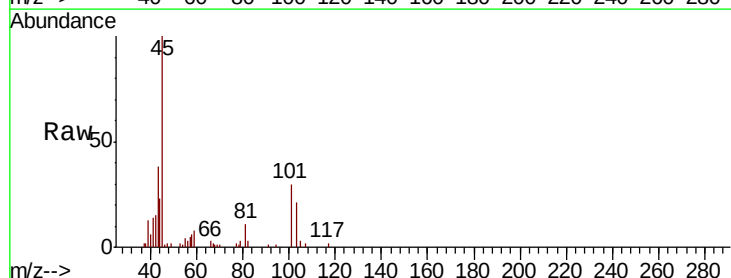
Acq: 3 Nov 2020 18:42

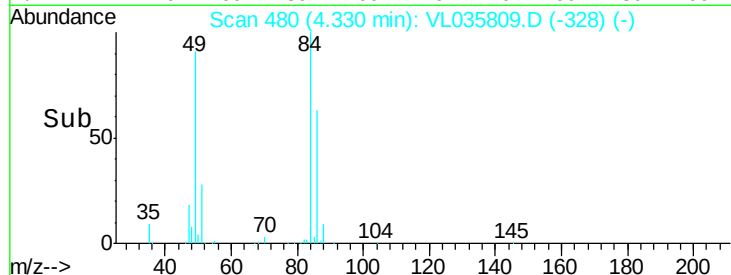
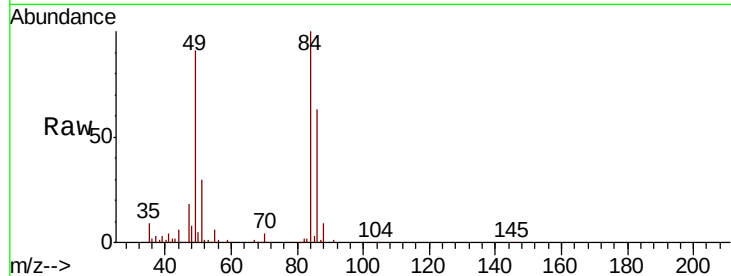
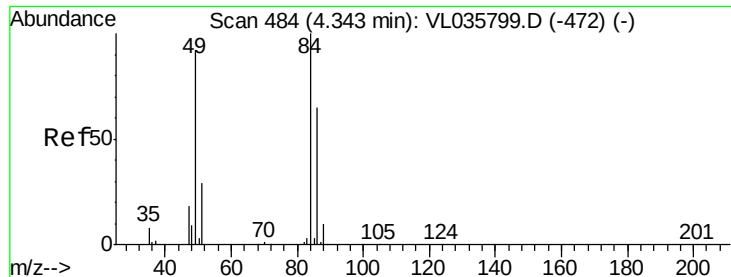
Tgt Ion: 45 Resp: 28753

Ion Ratio Lower Upper

45 100

58 378.2 2.6 3.8#





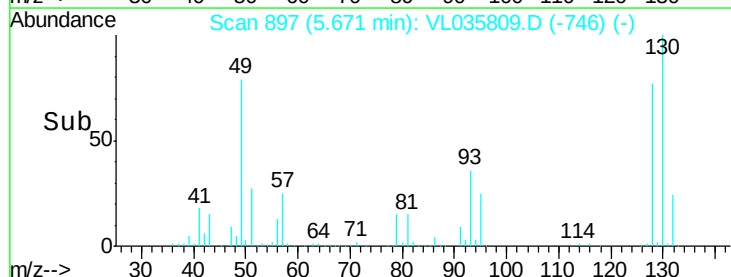
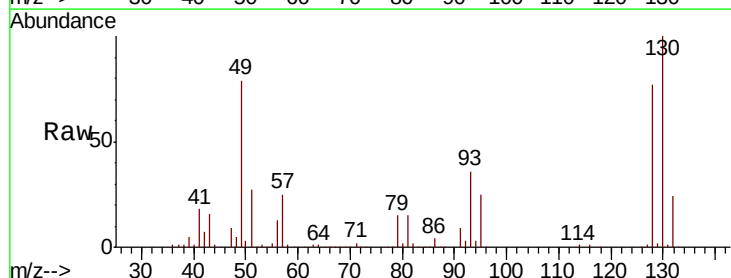
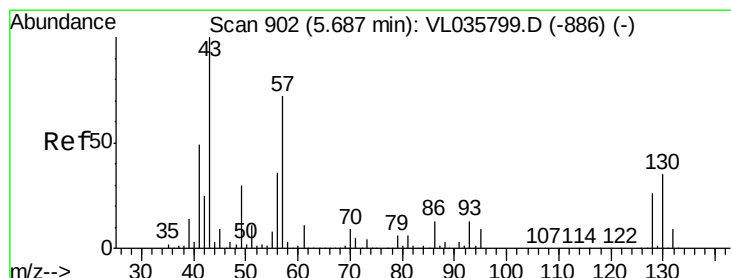
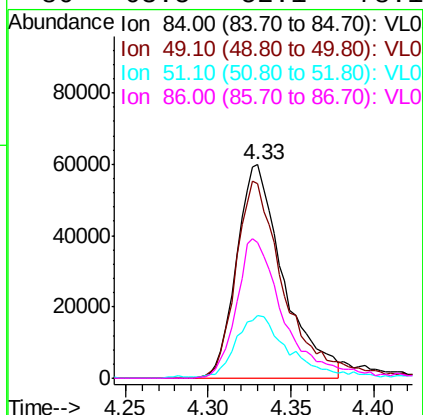
#20
Methvlene Chloride
Concen: 1.410 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL035809.D
Acq: 3 Nov 2020 18:42

Tot Ion:	84	Resp:	117453
Ion	Ratio	Lower	Upper
84	100		
49	91.0	73.8	110.8
51	28.8	23.0	34.4
86	63.5	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
QA1

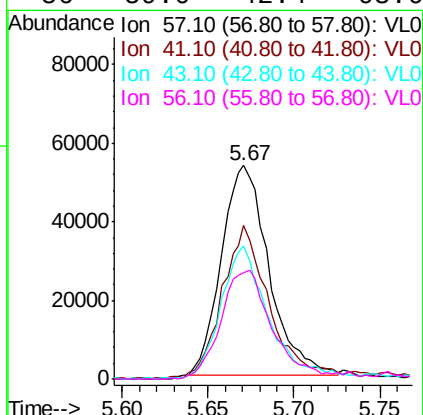
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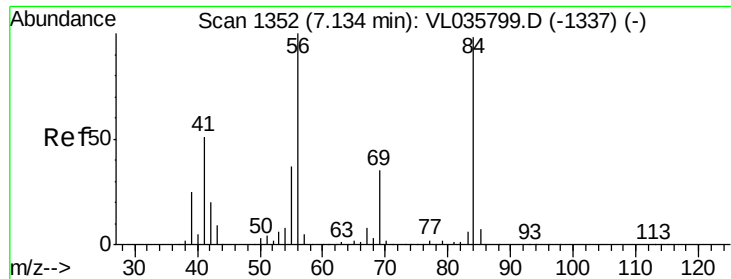
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#26
Hexane
Concen: 0.803 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL035809.D
Acq: 3 Nov 2020 18:42

Tgt Ion:	57	Resp:	103201
Ion	Ratio	Lower	Upper
57	100		
41	76.9	58.9	88.3
43	64.4	150.2	225.2#
56	59.0	42.4	63.6





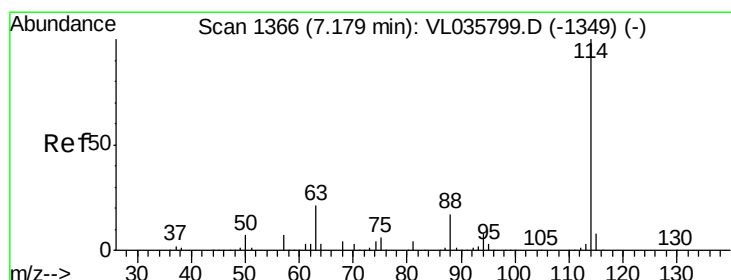
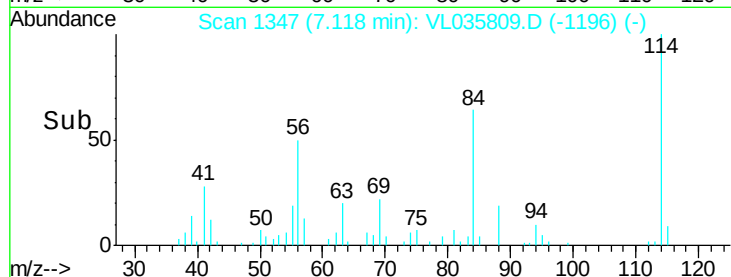
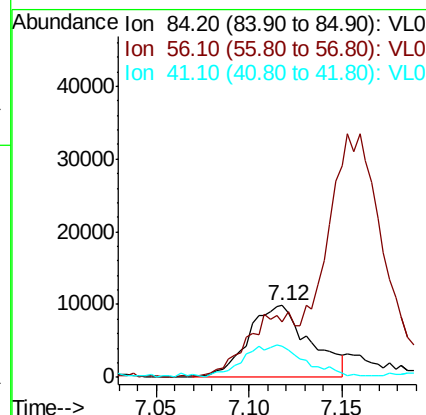
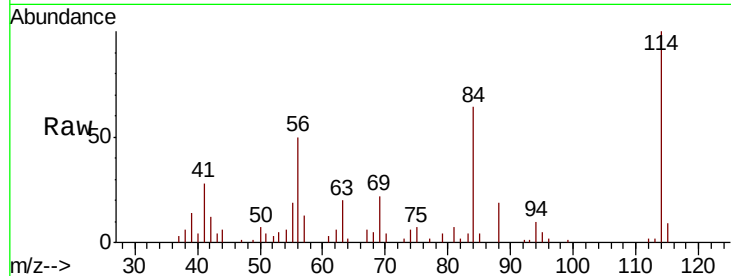
#30
Cyclohexane
Concen: 0.163 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL035809.D
Acq: 3 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	86.4	129.6#
41	46.1	42.1	63.1

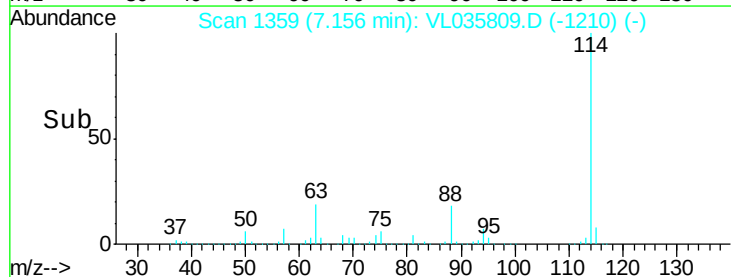
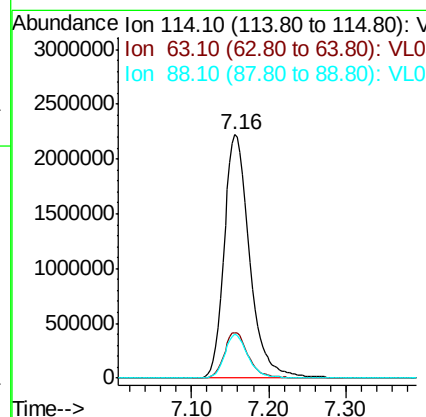
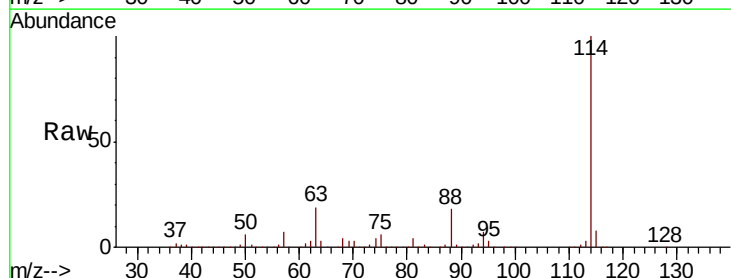
Manual Integrations
APPROVED

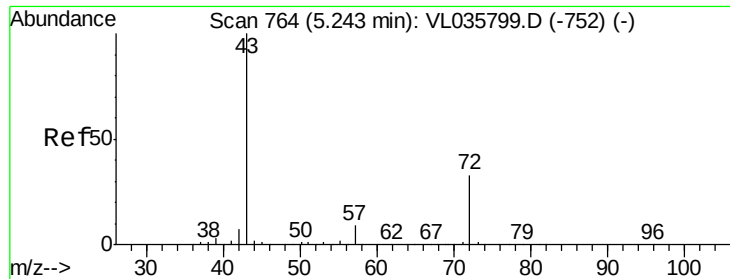
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL035809.D
Acq: 3 Nov 2020 18:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.9	16.1	24.1
88	16.7	13.7	20.5





#34

2-Butanone

Concen: 0.218 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.00 min

Lab File: VL035809.D

Acq: 3 Nov 2020 18:42

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 43 Resp: 36050

Ion Ratio Lower Upper

43 100

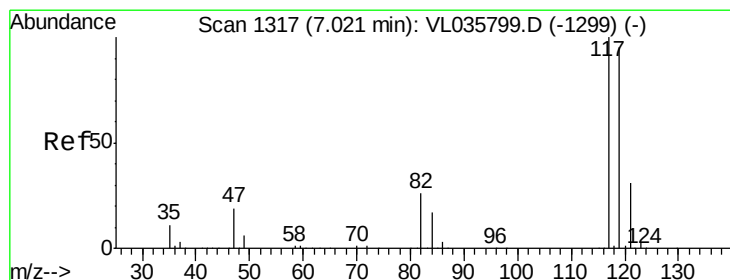
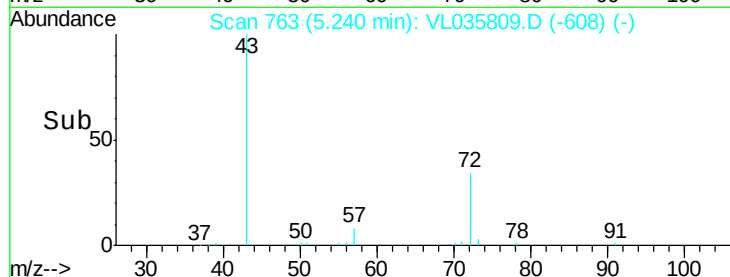
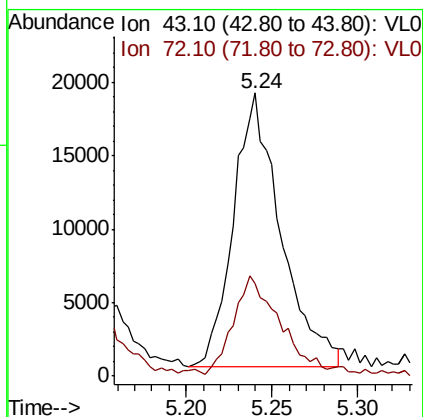
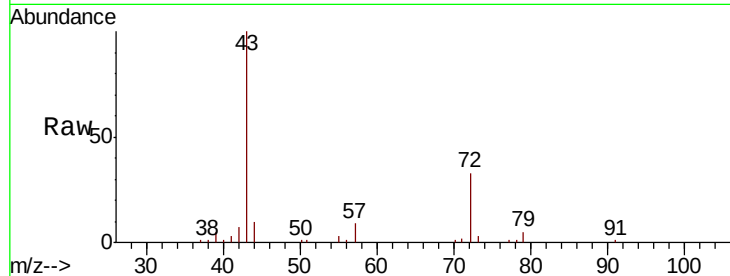
72 38.6 26.5 39.7

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL035809.D

Acq: 3 Nov 2020 18:42

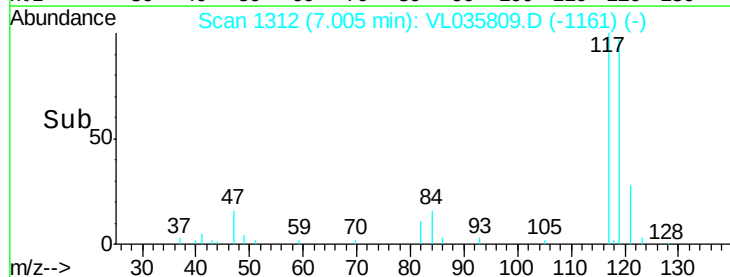
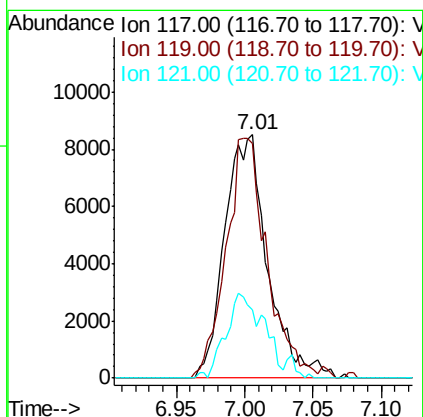
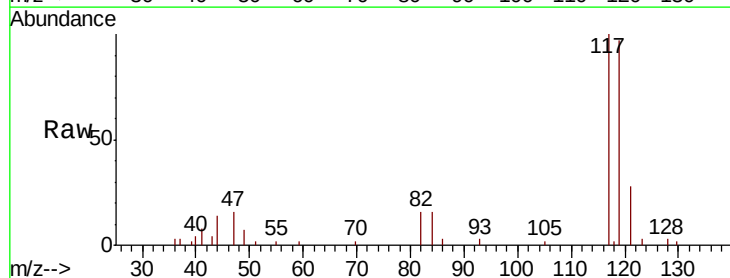
Tgt Ion: 117 Resp: 18583

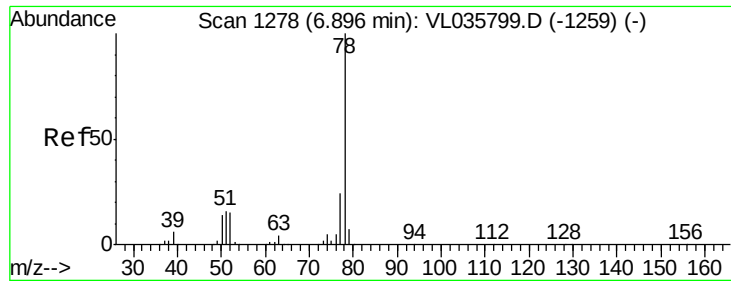
Ion Ratio Lower Upper

117 100

119 96.6 75.6 113.4

121 28.2 25.1 37.7





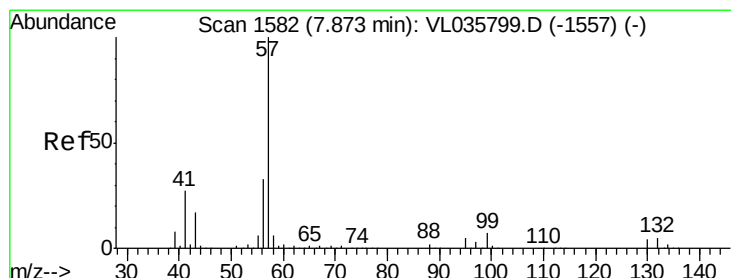
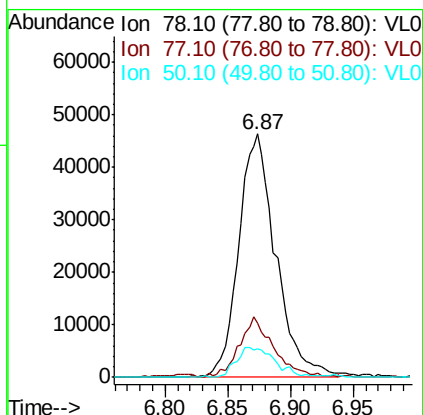
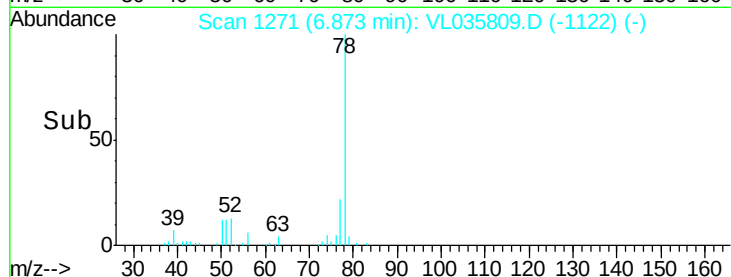
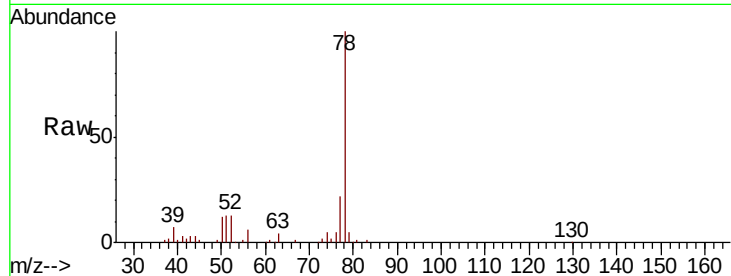
#36
Benzene
Concen: 0.251 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.02 min
Lab File: VL035809.D
Acq: 3 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.1	19.3	28.9
50	11.6	11.4	17.2

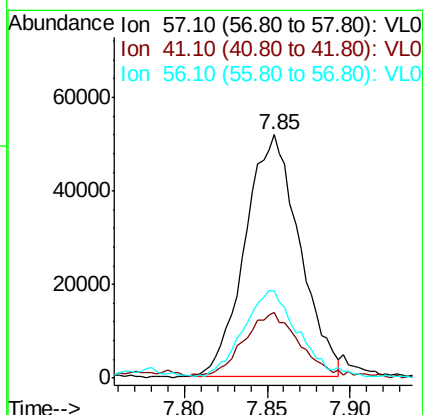
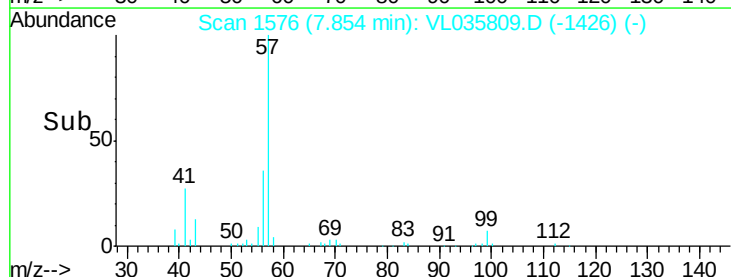
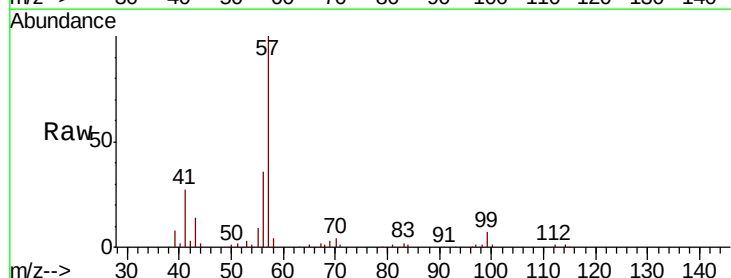
Manual Integrations
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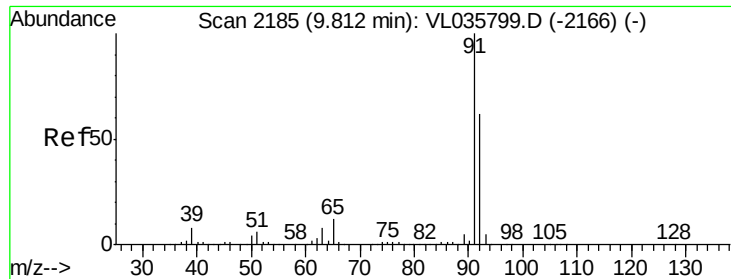
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.235 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. -0.02 min
Lab File: VL035809.D
Acq: 3 Nov 2020 18:42

Tgt Ion	Ratio	Lower	Upper
57	100		
41	27.5	21.0	31.4
56	38.0	25.4	38.0





#53

Toluene

Concen: 1.024 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. -0.03 min

Lab File: VL035809.D

Acq: 3 Nov 2020 18:42

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 91 Resp: 468967

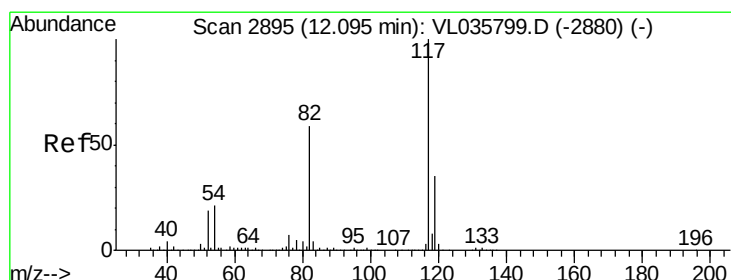
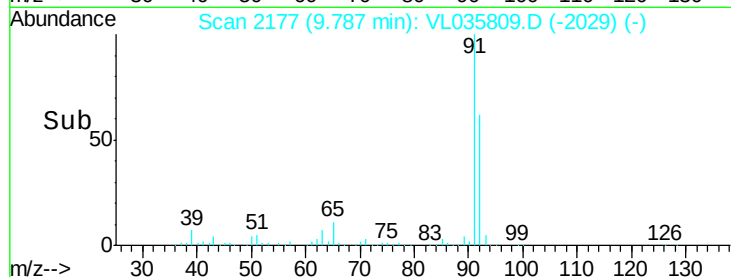
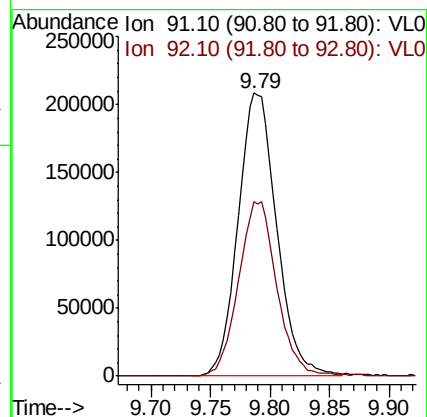
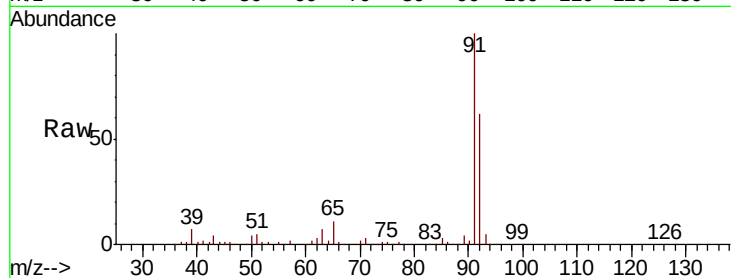
Ion Ratio Lower Upper

91 100

92 61.6 49.8 74.6

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.03 min

Lab File: VL035809.D

Acq: 3 Nov 2020 18:42

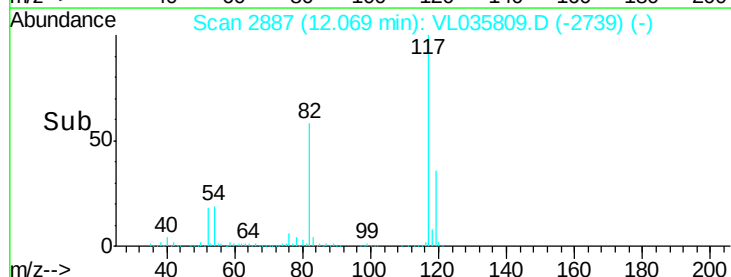
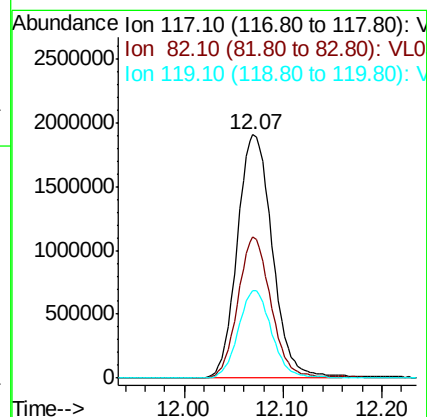
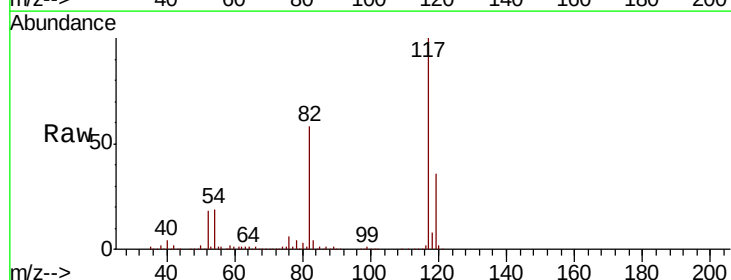
Tgt Ion: 117 Resp: 4706811

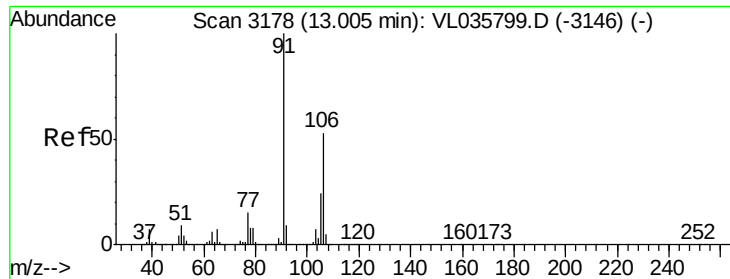
Ion Ratio Lower Upper

117 100

82 55.7 50.6 76.0

119 34.7 52.6 78.8#





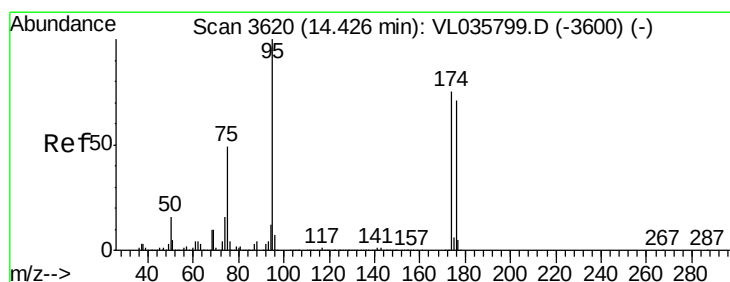
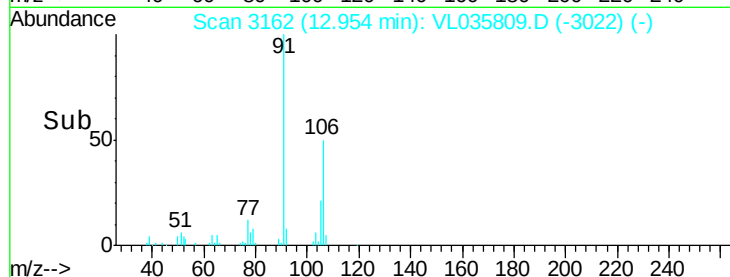
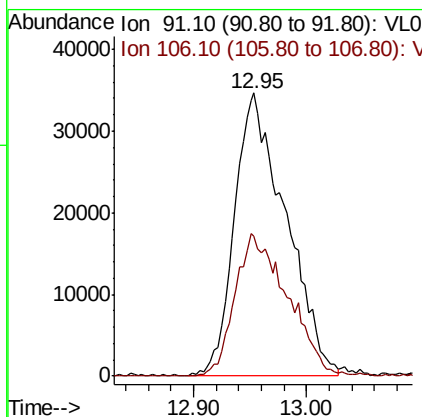
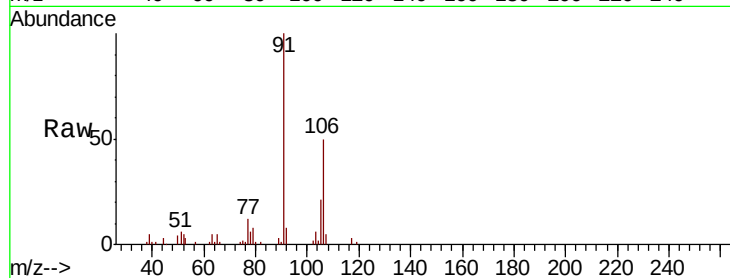
#59
m/p-Xylene
Concen: 0.225 ppbv
RT: 12.95 min Scan# 3162
Delta R.T. -0.05 min
Lab File: VL035809.D
Acq: 3 Nov 2020 18:42

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion: 91 Resp: 108975
Ion Ratio Lower Upper
91 100
106 51.8 39.5 59.3

Manual Integrations
APPROVED

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11/5/2020 2:13:44 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.132 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. -0.02 min
Lab File: VL035809.D
Acq: 3 Nov 2020 18:42

Tgt Ion: 95 Resp: 3388285
Ion Ratio Lower Upper
95 100
174 74.3 59.8 89.6
175 5.4 4.3 6.5

