

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035959.D
 Acq On : 17 Nov 2020 1:10
 Operator : SY/AP
 Sample : L4722-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7

Manual Integrations
 APPROVED

MMDadoda
 11/18/2020 9:08:24 AM

Quant Time: Nov 17 22:24:27 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	1172502	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4103515	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3842371	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2893686	10.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	61620	0.279	ppbv	94
3) Chlorodifluoromethane	2.98	51	67174	0.478	ppbv #	84
4) Chloromethane	3.13	50	40495m	0.594	ppbv	
9) Propene	3.02	41	47734	0.929	ppbv	88
11) Trichlorofluoromethane	3.95	101	66669	0.241	ppbv	98
13) Ethanol	3.60	45	183188m	16.431	ppbv	
15) Acetone	3.85	43	1043203	8.322	ppbv	98
19) Isopropyl Alcohol	3.98	45	88998m	1.155	ppbv	
20) Methylene Chloride	4.34	84	93037	1.054	ppbv	96
23) Vinyl Acetate	5.06	43	154428	0.879	ppbv #	88
26) Hexane	5.69	57	204512	1.502	ppbv #	47
34) 2-Butanone	5.25	43	180226	1.353	ppbv	97
35) Carbon Tetrachloride	7.02	117	14521m	0.066	ppbv	
36) Benzene	6.89	78	61231	0.201	ppbv #	96
44) 2,2,4-Trimethylpentane	7.87	57	61051m	0.151	ppbv	
53) Toluene	9.81	91	459203	1.247	ppbv	97
59) m/p-Xylene	12.98	91	69117m	0.175	ppbv	

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

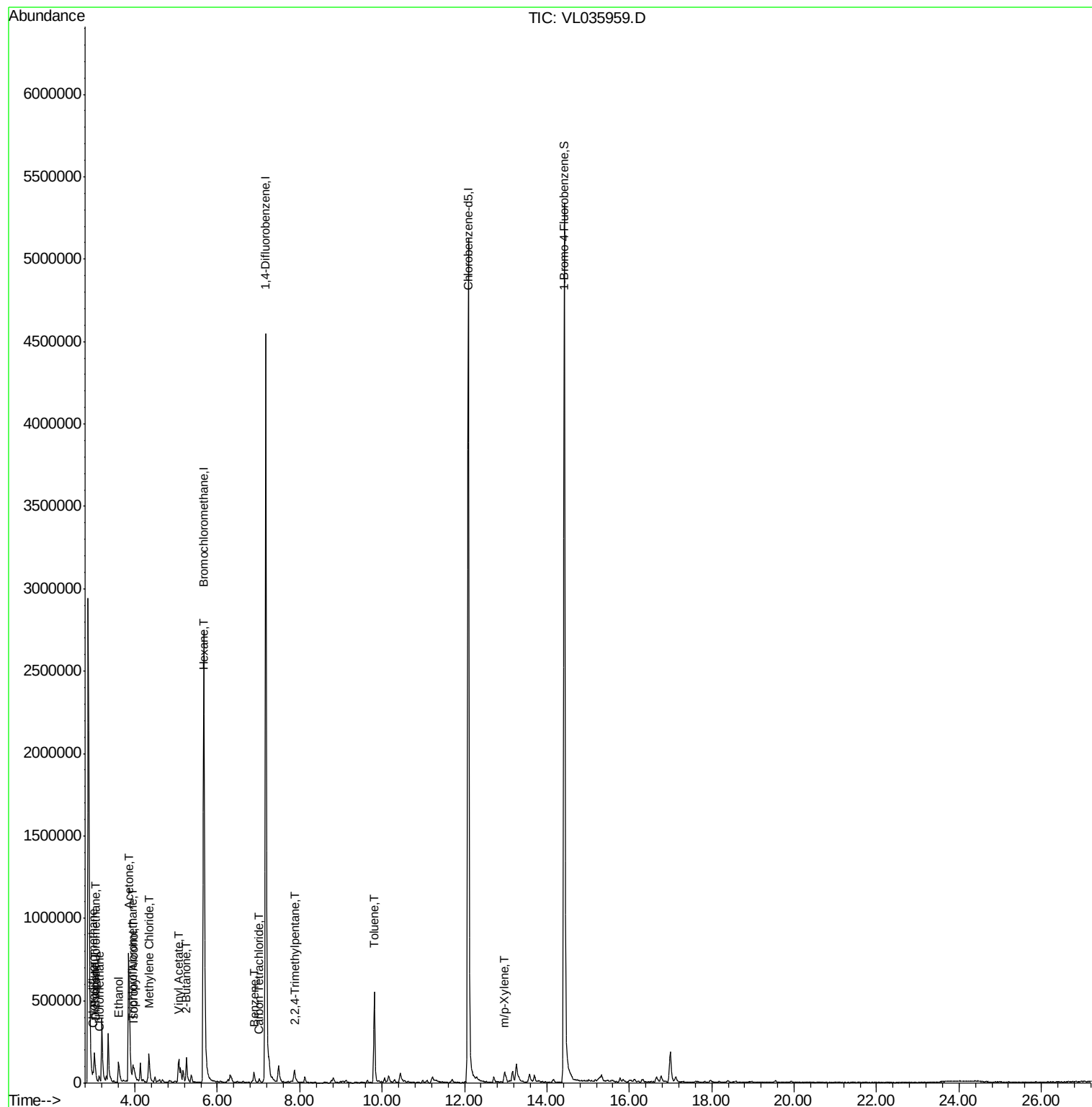
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111620\
Data File : VL035959.D
Acq On : 17 Nov 2020 1:10
Operator : SY/AP
Sample : L4722-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

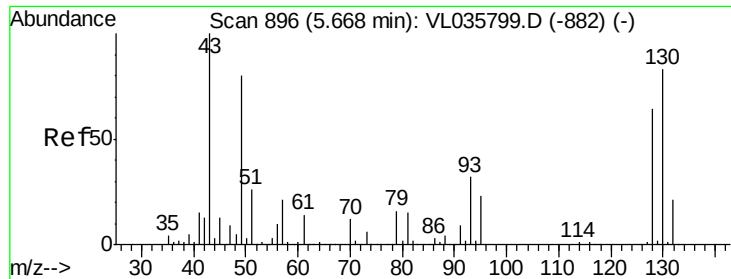
Instrument :
MSVOA_L
ClientSampleId :
SR-7

Manual Integrations
APPROVED

MMDadoda
11/18/2020 9:08:24 AM

Quant Time: Nov 17 22:24:27 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# 895

Delta R.T. -0.00 min

Lab File: VL035959.D

Acq: 17 Nov 2020 1:10

Instrument :

MSVOA_L

ClientSampled :

SR-7

Tot Ion: 49 Resp: 1172502

Ion Ratio Lower Upper

49 100

128 77.1 41.5 124.6

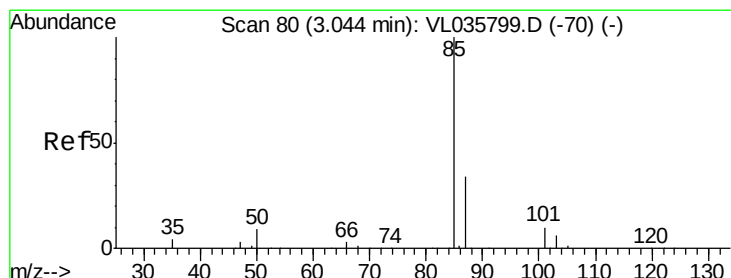
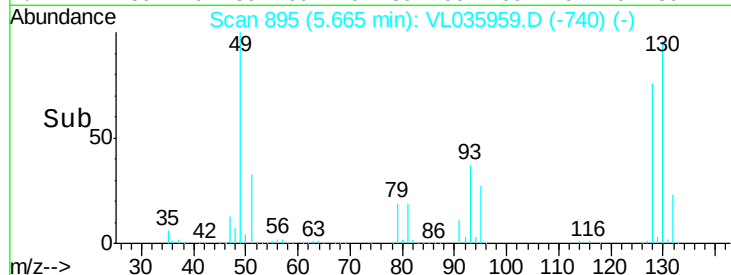
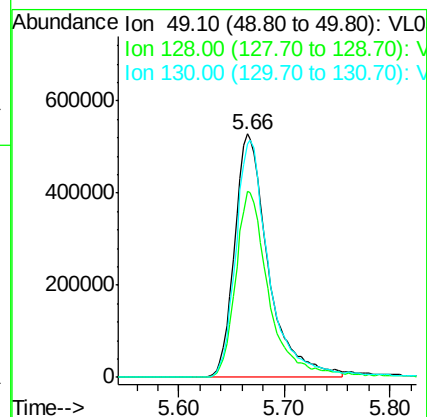
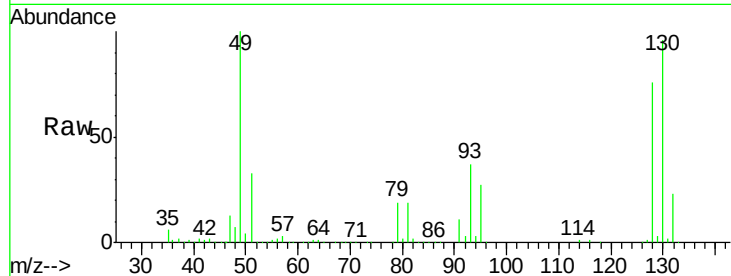
130 98.3 53.7 161.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.279 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL035959.D

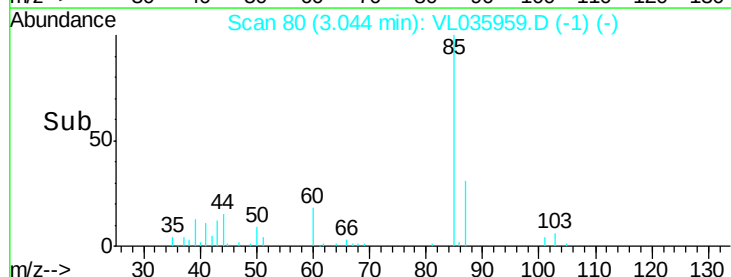
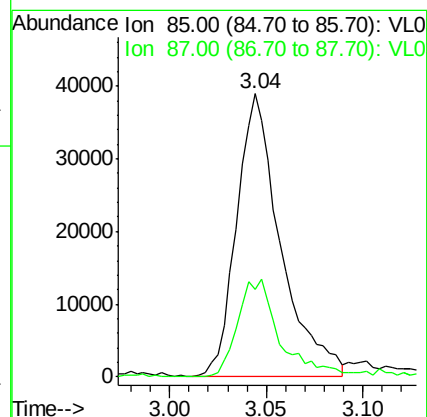
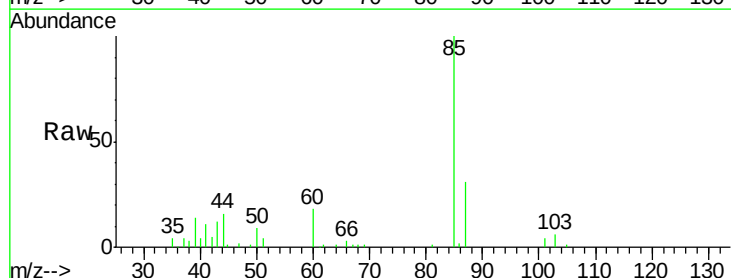
Acq: 17 Nov 2020 1:10

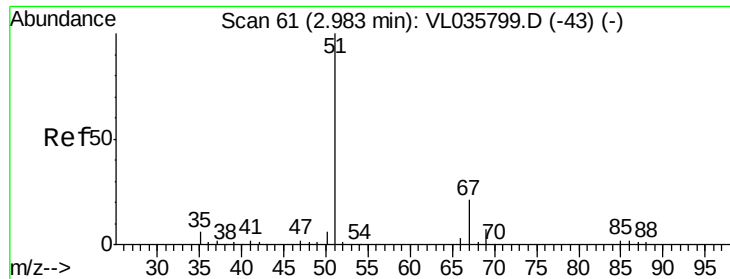
Tgt Ion: 85 Resp: 61620

Ion Ratio Lower Upper

85 100

87 30.7 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.478 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL035959.D

Acq: 17 Nov 2020 1:10

Instrument :

MSVOA_L

ClientSampleId :

SR-7

Tot Ion: 51 Resp: 67174

Ion Ratio Lower Upper

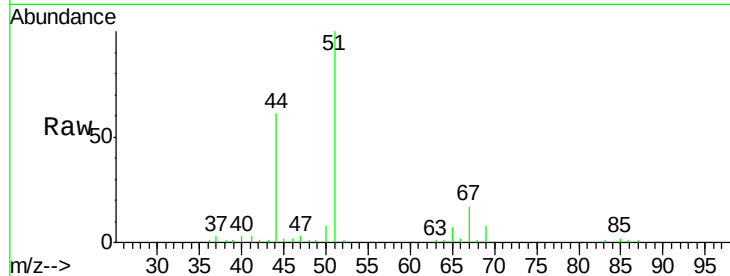
51 100

67 13.6 17.0 25.4#

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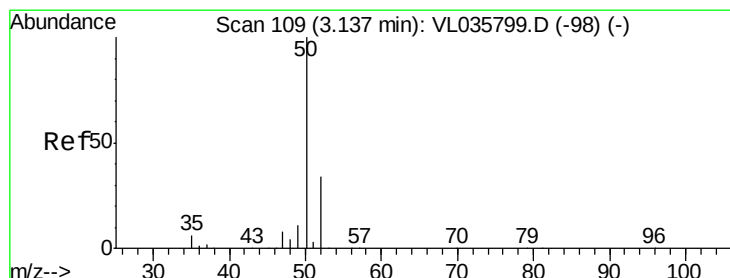
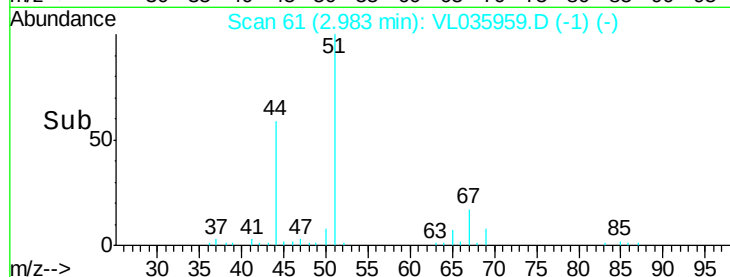
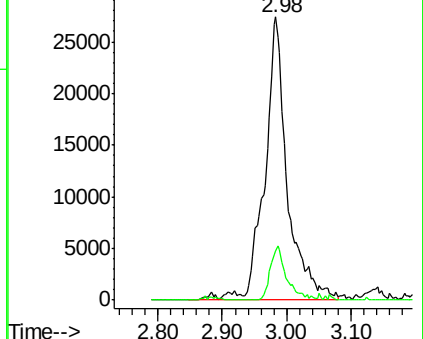
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.594 ppbv m

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035959.D

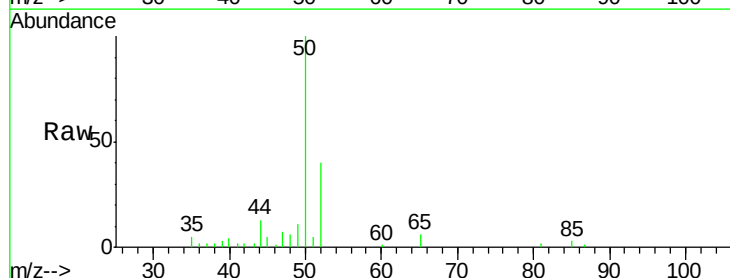
Acq: 17 Nov 2020 1:10

Tgt Ion: 50 Resp: 40495

Ion Ratio Lower Upper

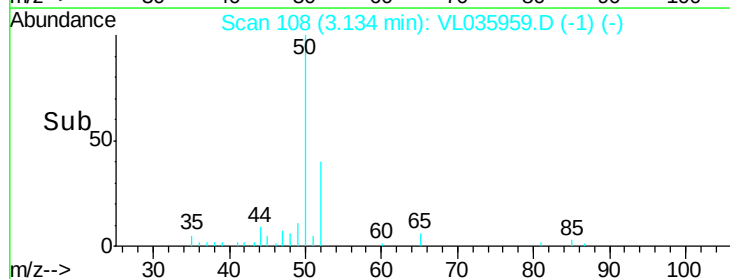
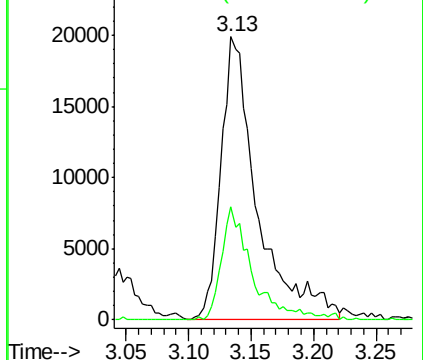
50 100

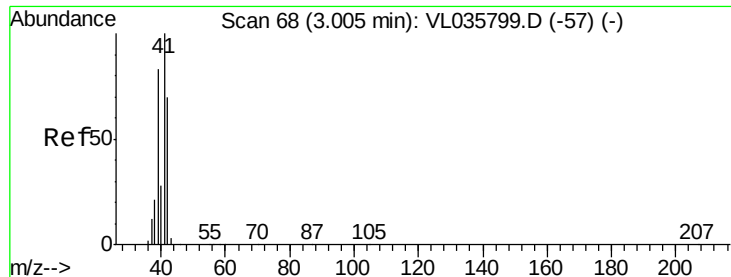
52 39.8 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.929 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035959.D

Acq: 17 Nov 2020 1:10

Instrument :

MSVOA_L

ClientSampled :

SR-7

Tot Ion: 41 Resp: 47734

Ion Ratio Lower Upper

41 100

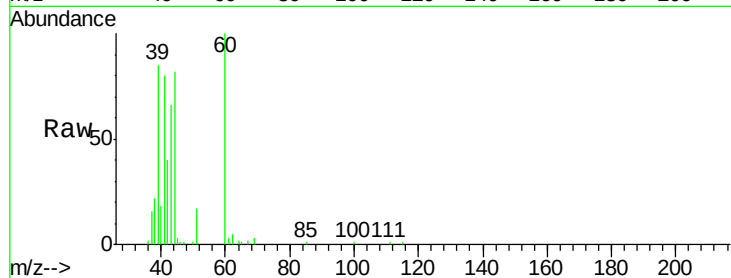
42 60.4 56.2 84.4

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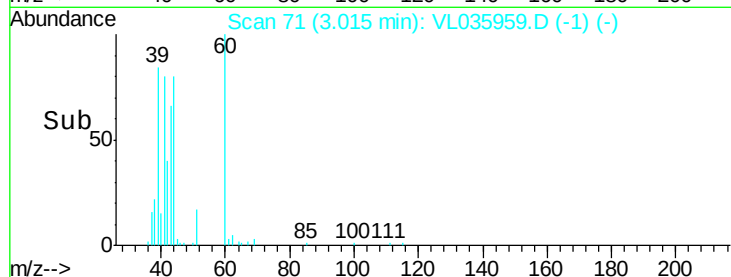


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.02

Time-->



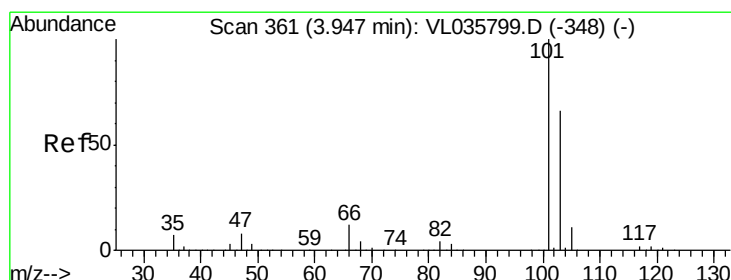
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.02

Time-->



#11

Trichlorofluoromethane

Concen: 0.241 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL035959.D

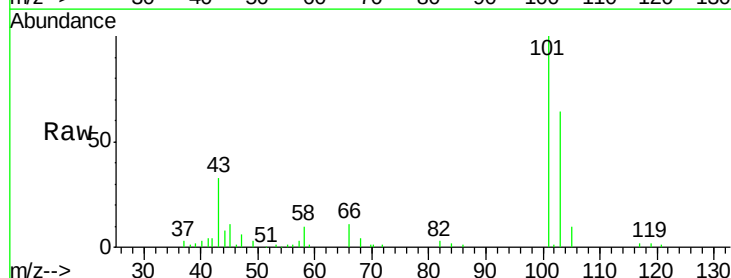
Acq: 17 Nov 2020 1:10

Tgt Ion: 101 Resp: 66669

Ion Ratio Lower Upper

101 100

103 64.2 53.0 79.4

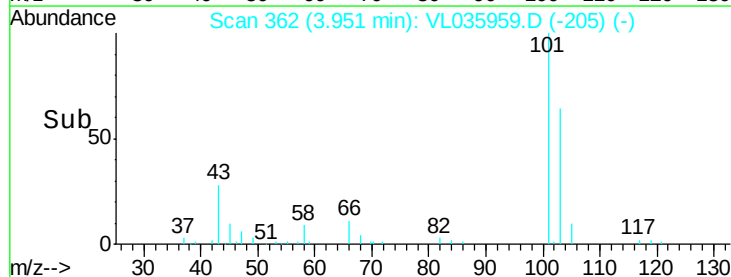


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.95

Time-->



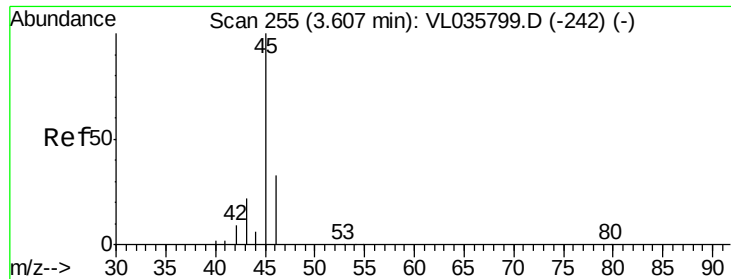
Abundance

Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.95

Time-->



#13

Ethanol

Concen: 16.431 ppbv m

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL035959.D

Acq: 17 Nov 2020 1:10

Instrument :

MSVOA_L

ClientSampleId :

SR-7

Tot Ion: 45 Resp: 183188

Ion Ratio Lower Upper

45 100

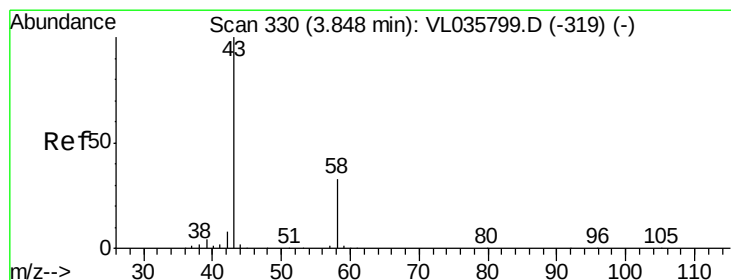
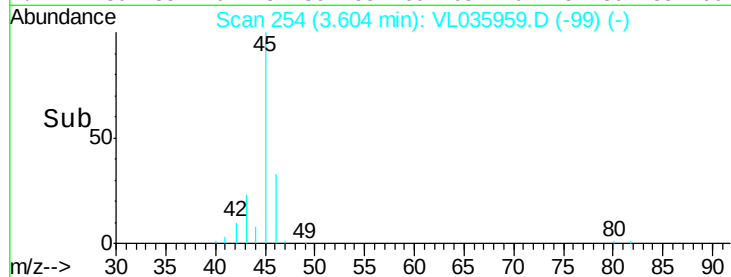
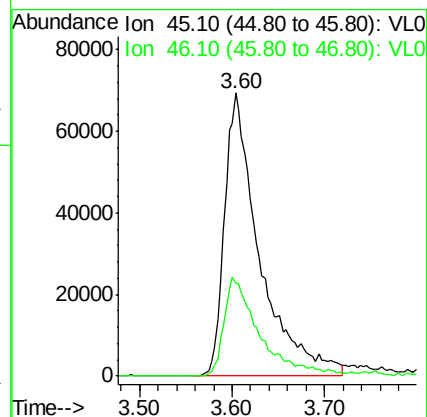
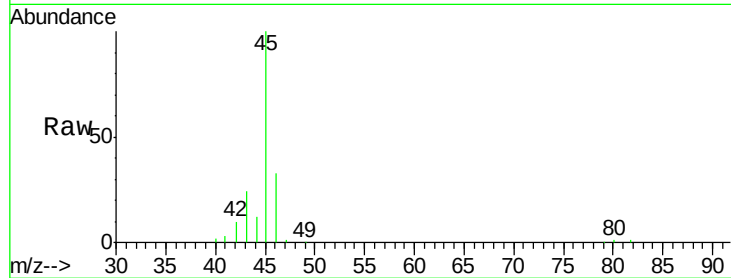
46 35.7 16.1 64.5

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#15

Acetone

Concen: 8.322 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL035959.D

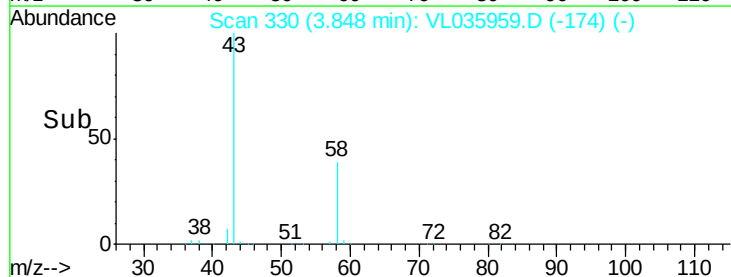
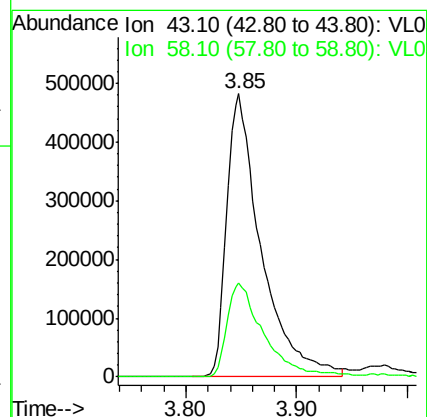
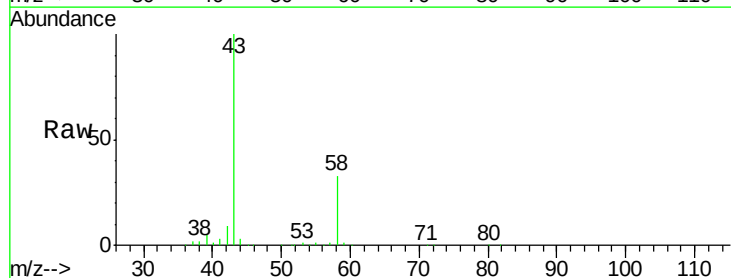
Acq: 17 Nov 2020 1:10

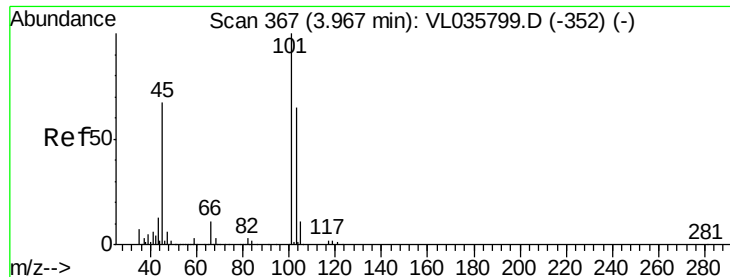
Tgt Ion: 43 Resp: 1043203

Ion Ratio Lower Upper

43 100

58 35.5 27.5 41.3





#19

Isopropyl Alcohol

Concen: 1.155 ppbv m

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL035959.D

Acq: 17 Nov 2020 1:10

Instrument :

MSVOA_L

ClientSampled :

SR-7

Tot Ion: 45 Resp: 88998

Ion Ratio Lower Upper

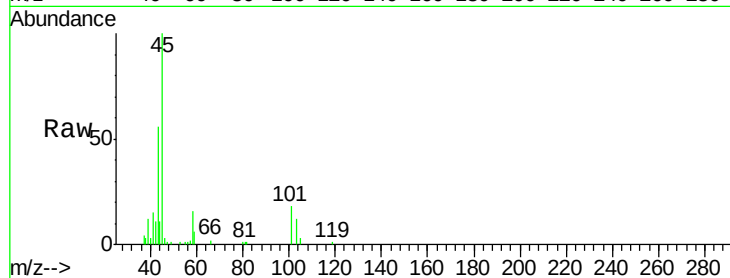
45 100

58 0.0 2.6 3.8#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

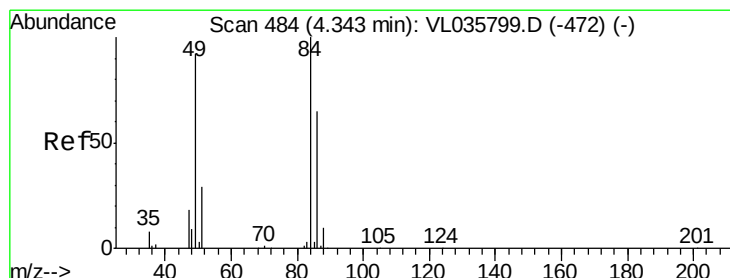
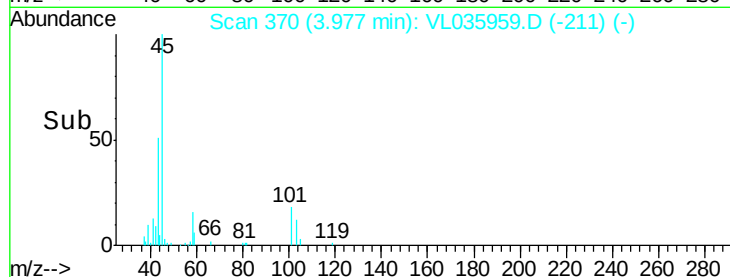
Ion 58.10 (57.80 to 58.80): VL0

100000

50000

3.98

Time-->



#20

Methylene Chloride

Concen: 1.054 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL035959.D

Acq: 17 Nov 2020 1:10

Tgt Ion: 84 Resp: 93037

Ion Ratio Lower Upper

84 100

49 89.3 73.8 110.8

51 28.3 23.0 34.4

86 59.1 52.1 78.1

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

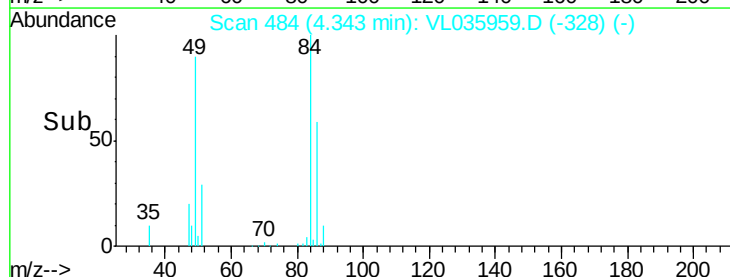
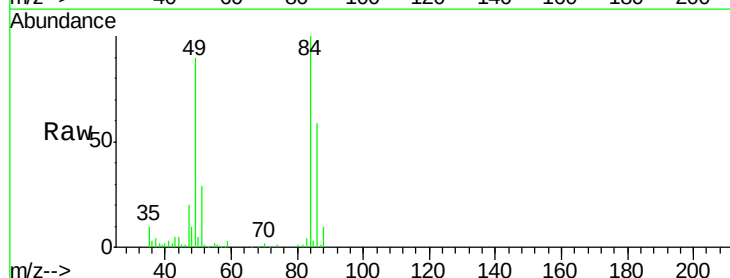
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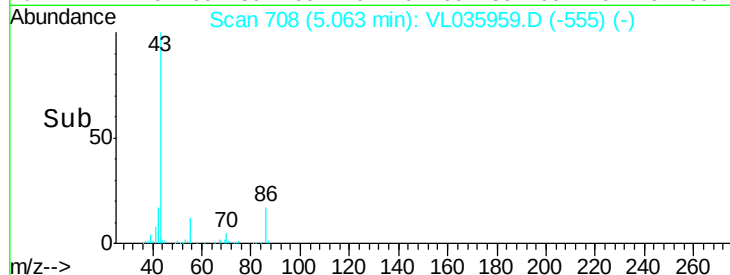
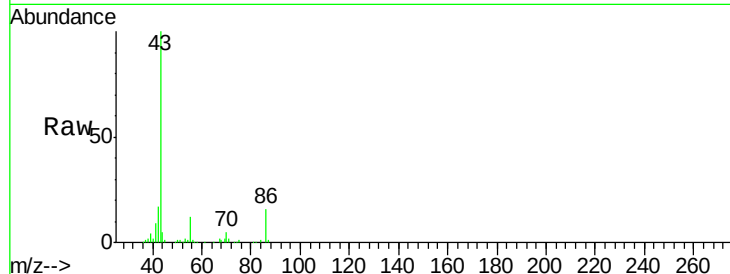
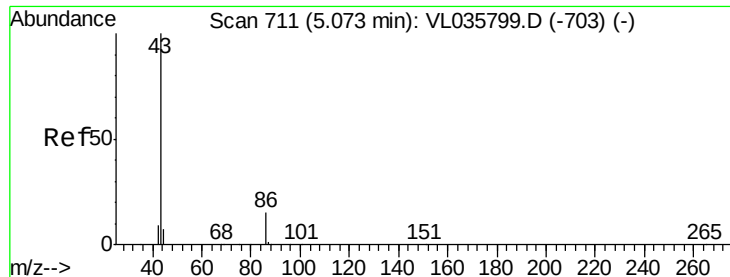
40000

20000

4.34

Time-->





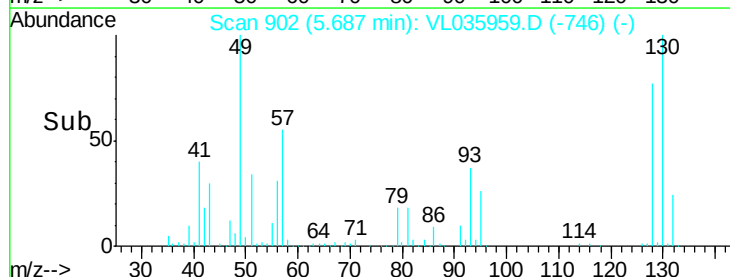
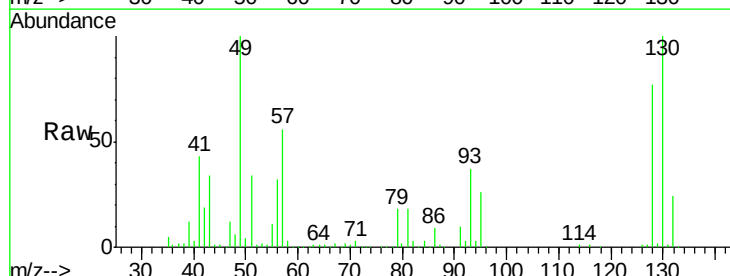
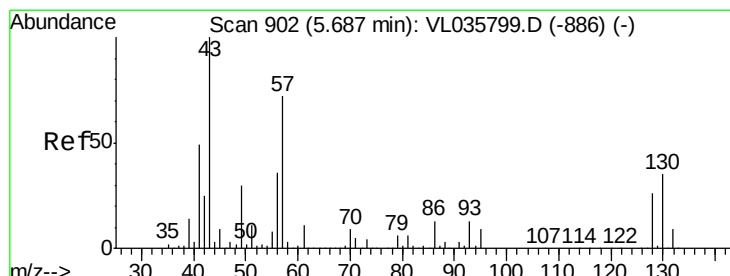
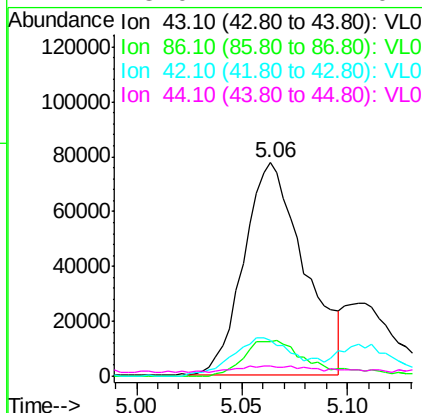
#23
Vinyl Acetate
Concen: 0.879 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.01 min
Lab File: VL035959.D
Acq: 17 Nov 2020 1:10

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		154428		
86	16.5	9.8	14.6#		
42	15.9	8.1	12.1#		
44	3.0	4.2	6.4#		

Instrument :
MSVOA_L
ClientSampled :
SR-7

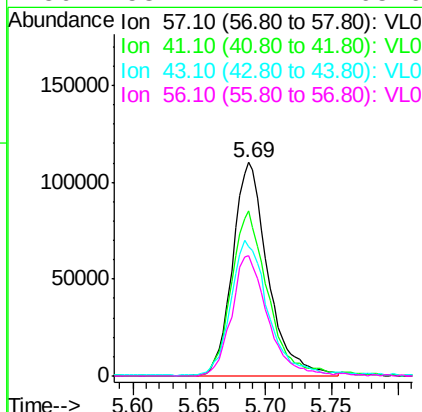
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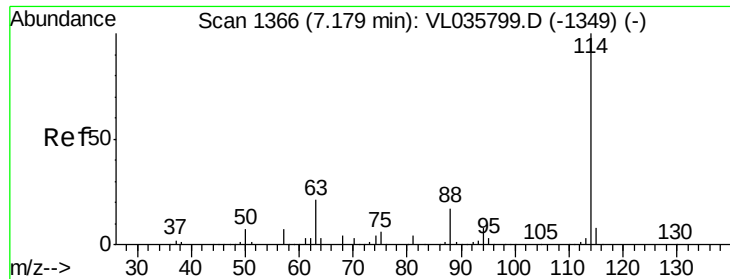
MMDadoda
11/18/2020 9:08:24 AM



#26
Hexane
Concen: 1.502 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035959.D
Acq: 17 Nov 2020 1:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		204512		
41	81.5	58.9	88.3		
43	67.8	150.2	225.2#		
56	58.7	42.4	63.6		





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL035959.D

Acq: 17 Nov 2020 1:10

Instrument :

MSVOA_L

ClientSampled :

SR-7

Tot Ion:114 Resp: 4103515

Ion Ratio Lower Upper

114 100

63 21.0 16.1 24.1

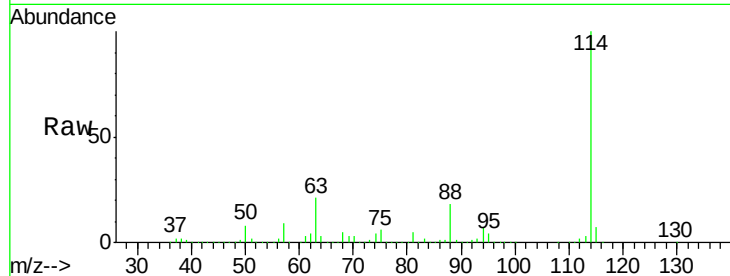
88 17.5 13.7 20.5

Manual Integrations

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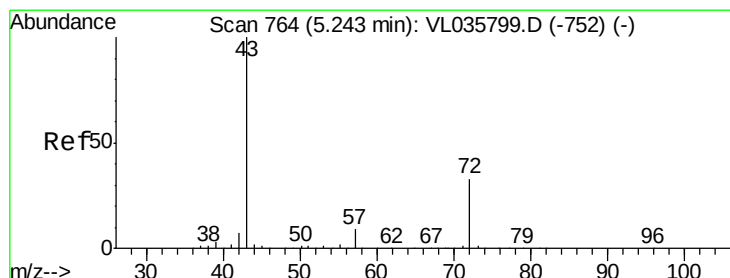
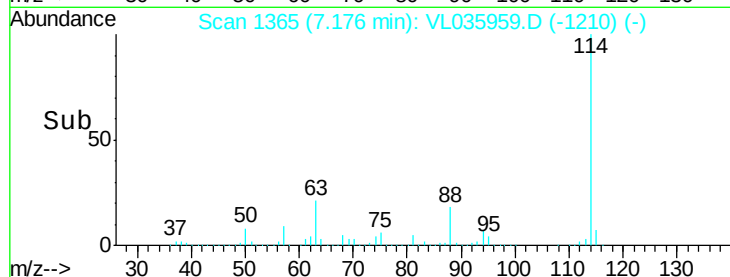
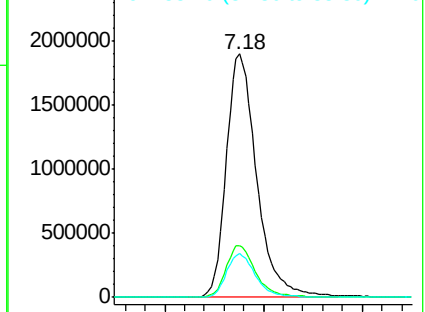
11/18/2020 9:08:24 AM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.353 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.01 min

Lab File: VL035959.D

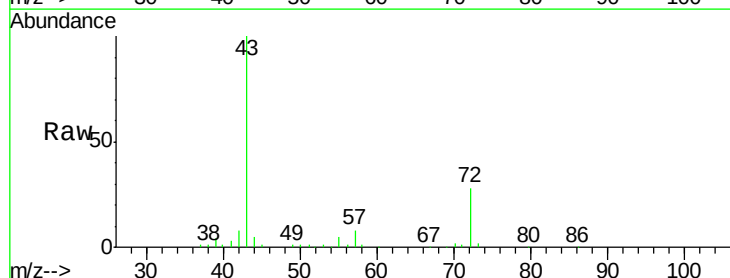
Acq: 17 Nov 2020 1:10

Tgt Ion: 43 Resp: 180226

Ion Ratio Lower Upper

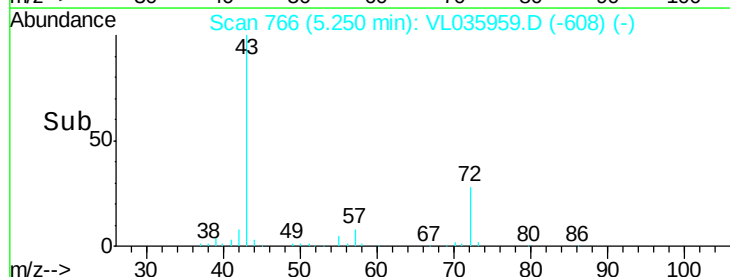
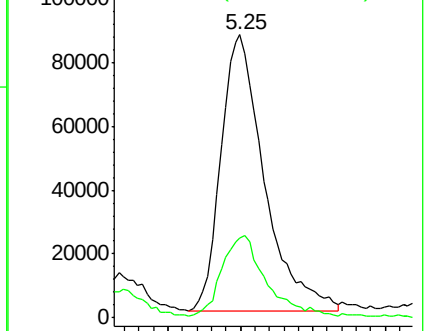
43 100

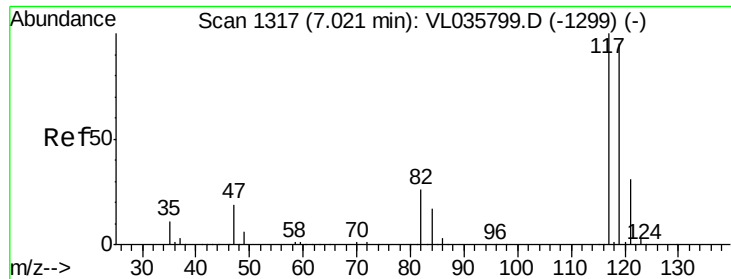
72 31.6 26.5 39.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL035959.D

Acq: 17 Nov 2020 1:10

Instrument :

MSVOA_L

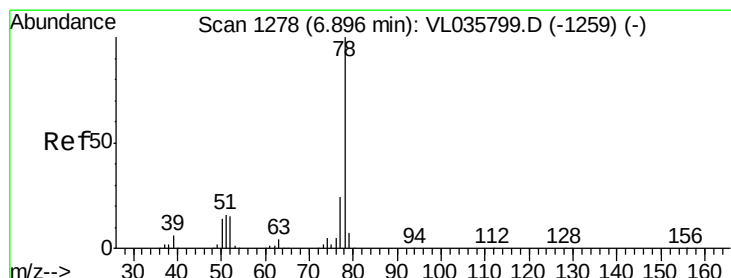
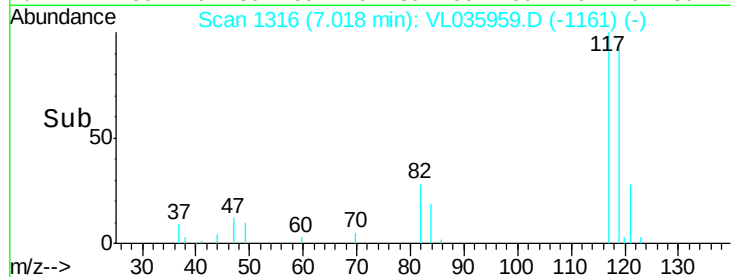
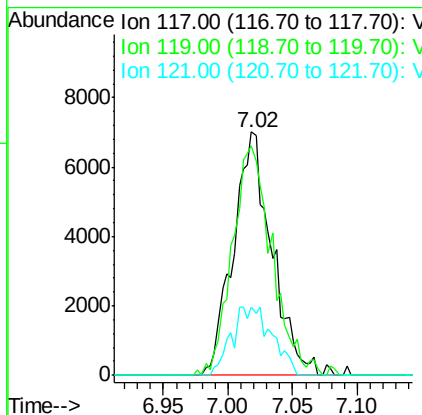
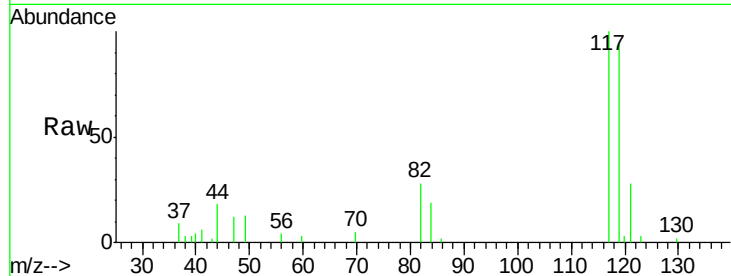
ClientSampled :

SR-7

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.6	113.4
121	27.8	25.1	37.7

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#36

Benzene

Concen: 0.201 ppbv

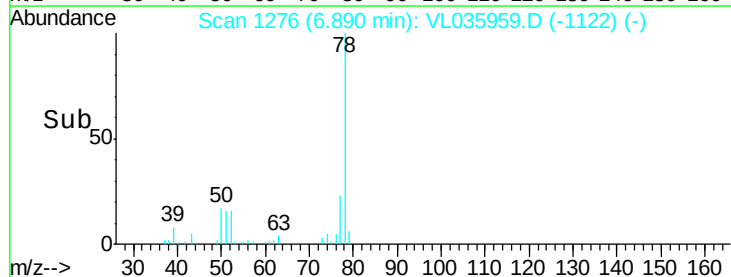
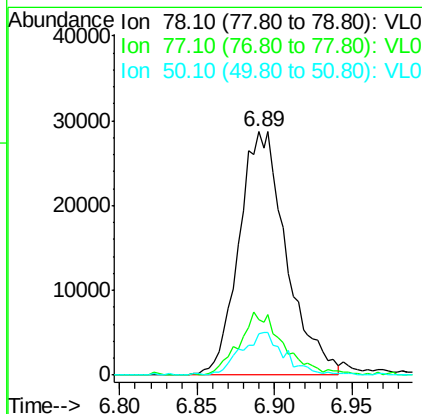
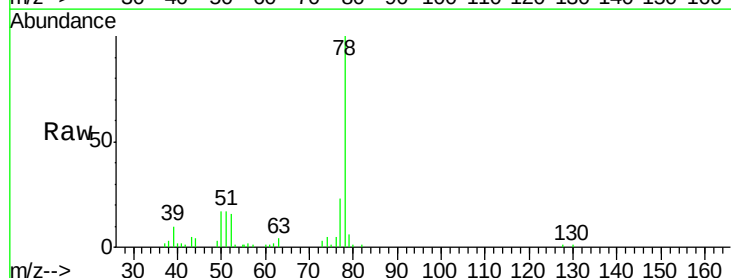
RT: 6.89 min Scan# 1276

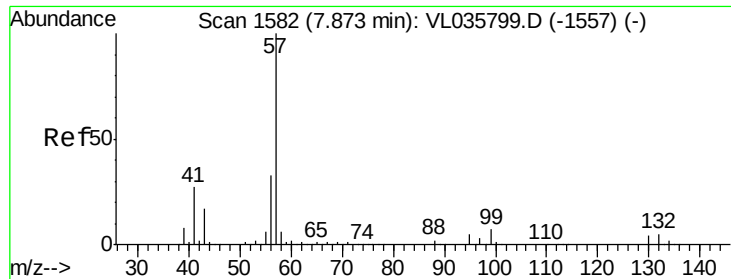
Delta R.T. -0.01 min

Lab File: VL035959.D

Acq: 17 Nov 2020 1:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.3	28.9
50	17.4	11.4	17.2#





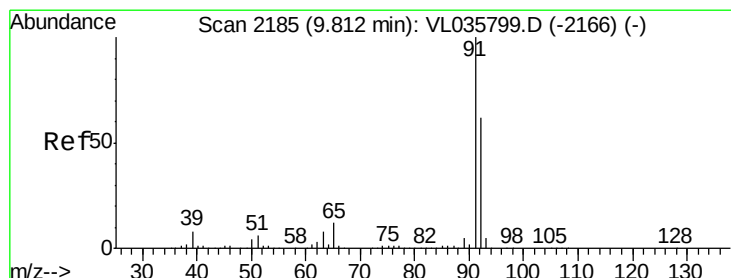
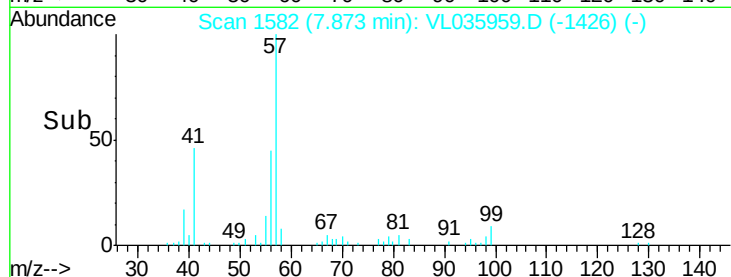
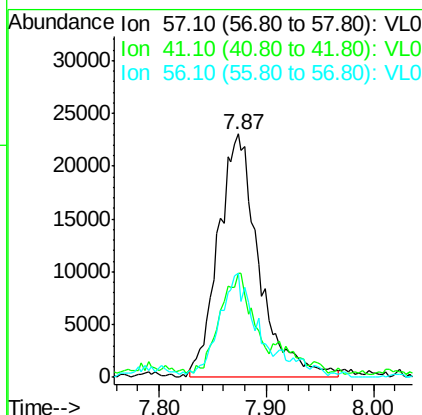
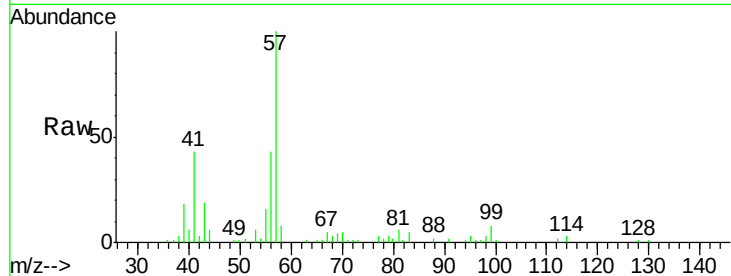
#44
 2,2,4-Trimethylpentane
 Concen: 0.151 ppbv m
 RT: 7.87 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VL035959.D
 Acq: 17 Nov 2020 1:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-7

Tot Ion	Ratio	Lower	Upper
57	100		
41	43.8	21.0	31.4#
56	43.7	25.4	38.0#

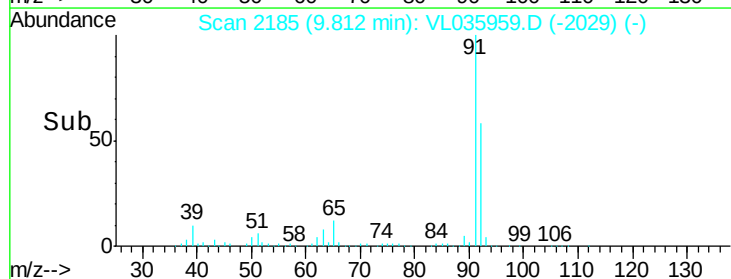
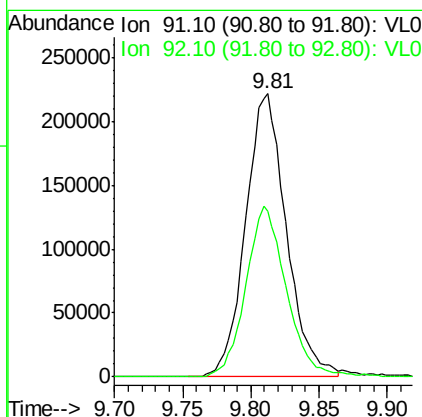
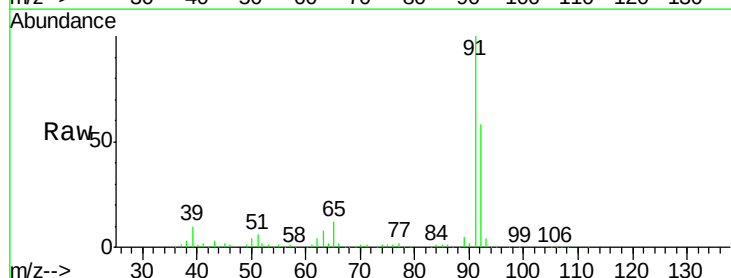
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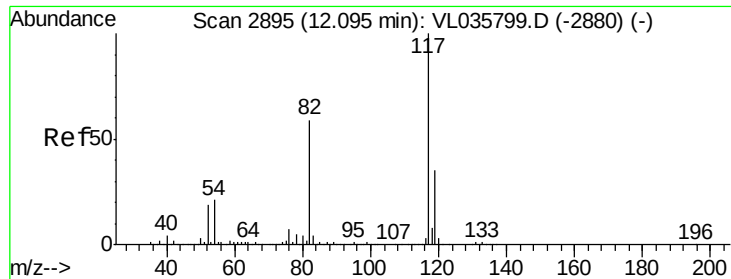
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#53
 Toluene
 Concen: 1.247 ppbv
 RT: 9.81 min Scan# 2185
 Delta R.T. 0.00 min
 Lab File: VL035959.D
 Acq: 17 Nov 2020 1:10

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.3	49.8	74.6





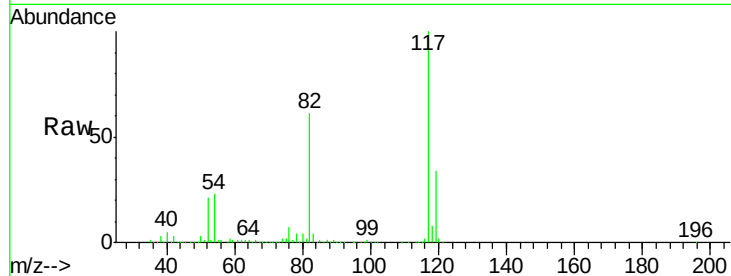
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035959.D
Acq: 17 Nov 2020 1:10

Instrument :
MSVOA_L
ClientSampled :
SR-7

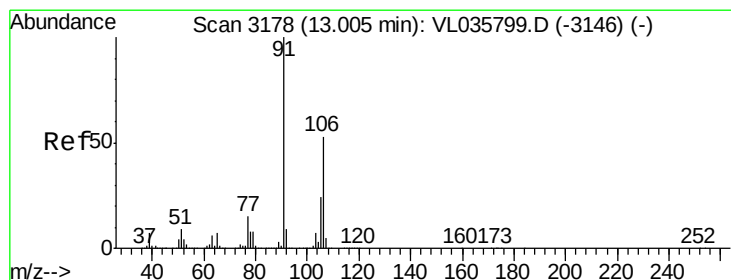
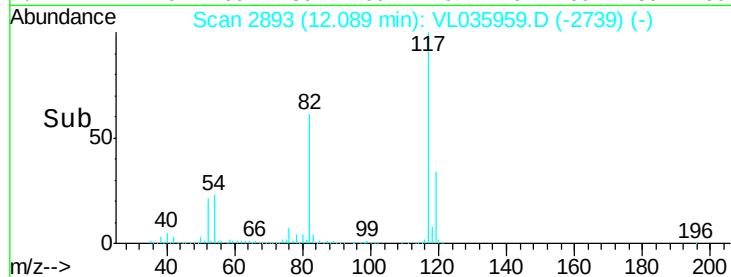
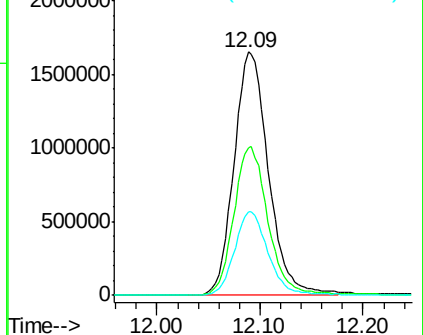
Tot Ion:117 Resp: 3842371
Ion Ratio Lower Upper
117 100
82 61.7 50.6 76.0
119 34.3 52.6 78.8#

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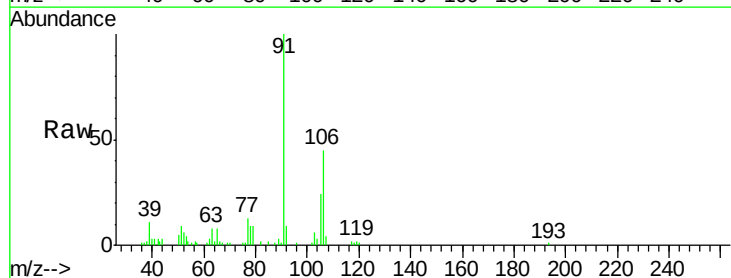


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

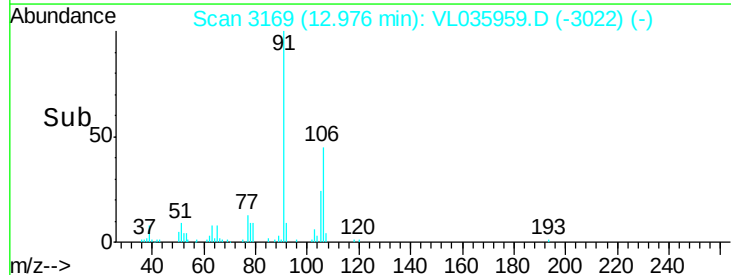
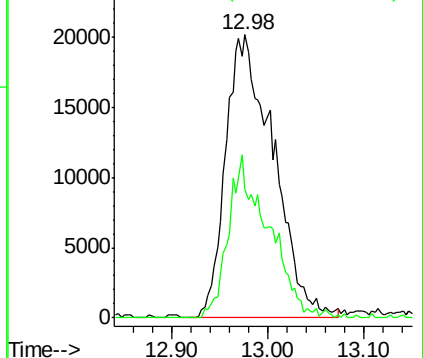


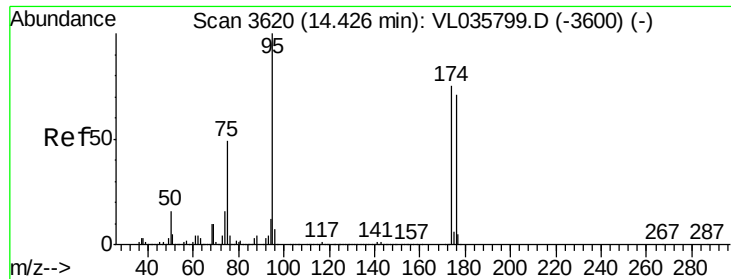
#59
m/p-Xylene
Concen: 0.175 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL035959.D
Acq: 17 Nov 2020 1:10

Tgt Ion: 91 Resp: 69117
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.600 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL035959.D
 Acq: 17 Nov 2020 1:10

Instrument :
 MSVOA_L
 ClientSampled :
 SR-7

Tot Ion	Ratio	Lower	Upper
95	100		
174	71.3	59.8	89.6
175	5.0	4.3	6.5

Manual Integrations
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