

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111820\
 Data File : VL035987.D
 Acq On : 19 Nov 2020 00:04
 Operator : SY/AP
 Sample : L4781-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

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 11/20/2020 12:28:13 PM

Quant Time: Nov 19 21:34:22 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 02:40:06 2020
 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	5.62	49	1054085	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	3831194	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.04	117	3535783	10.00	ppbv	-0.05

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.37	95	2670635	10.63	ppbv	-0.06	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	41669	0.210	ppbv	99
3) Chlorodifluoromethane	2.95	51	70944	0.562	ppbv #	84
4) Chloromethane	3.11	50	31717	0.517	ppbv	95
9) Propene	2.99	41	44743	0.968	ppbv	85
11) Trichlorofluoromethane	3.91	101	74069	0.297	ppbv	98
13) Ethanol	3.57	45	1053126	105.069	ppbv	95
15) Acetone	3.82	43	537249	4.767	ppbv	90
19) Isopropyl Alcohol	3.94	45	246513m	3.560	ppbv	
20) Methylene Chloride	4.30	84	87319	1.101	ppbv	98
26) Hexane	5.64	57	251691	2.056	ppbv #	50
29) Chloroform	5.71	83	31198m	0.130	ppbv	
30) Cyclohexane	7.12	84	18520m	0.139	ppbv	
34) 2-Butanone	5.21	43	24268	0.195	ppbv	90
35) Carbon Tetrachloride	6.97	117	14276	0.070	ppbv	91
36) Benzene	6.84	78	84722	0.297	ppbv	98
44) 2,2,4-Trimethylpentane	7.83	57	44126	0.117	ppbv #	50
52) Tetrachloroethene	11.18	164	23486m	0.174	ppbv	
53) Toluene	9.76	91	2203749	6.412	ppbv	99
59) m/p-Xylene	12.92	91	53929m	0.148	ppbv	

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

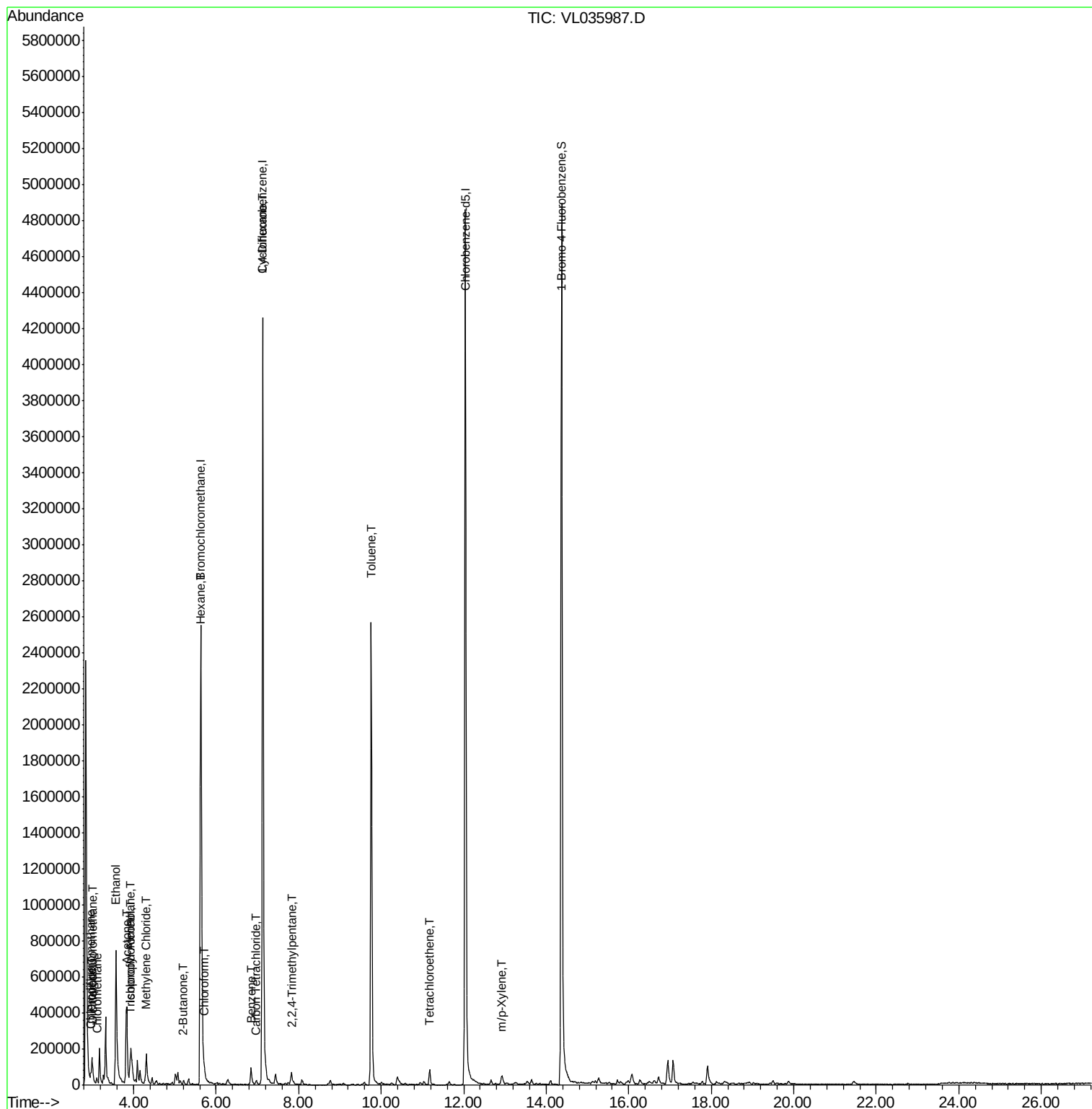
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111820\
Data File : VL035987.D
Acq On : 19 Nov 2020 00:04
Operator : SY/AP
Sample : L4781-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

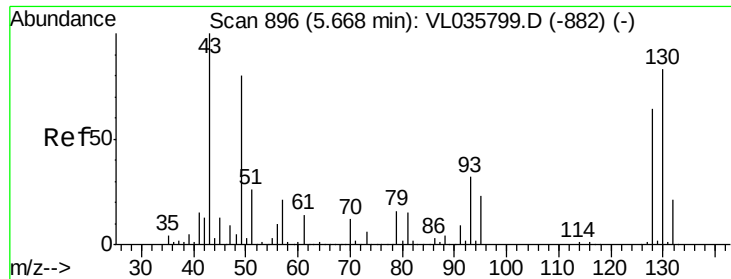
Instrument :
MSVOA_L
ClientSampleId :
IA3

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Quant Time: Nov 19 21:34:22 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: 5.62 min Scan# 882

Delta R.T. -0.04 min

Lab File: VL035987.D

Acq: 19 Nov 2020 00:04

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 49 Resp: 1054085

Ion Ratio Lower Upper

49 100

128 79.3 41.5 124.6

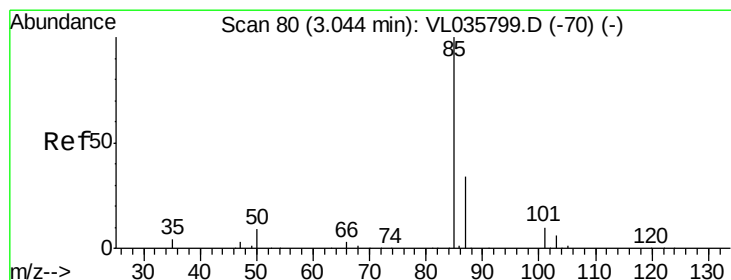
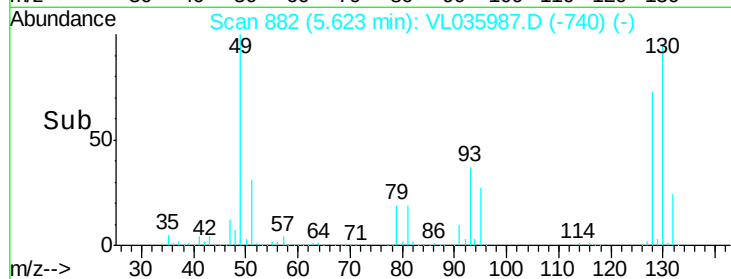
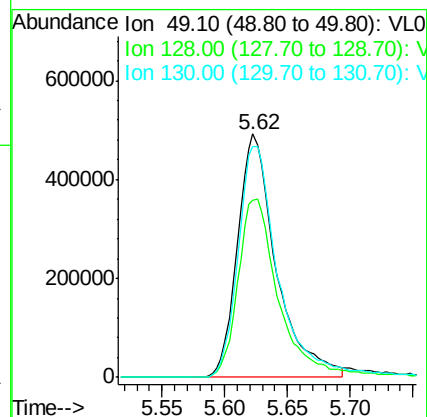
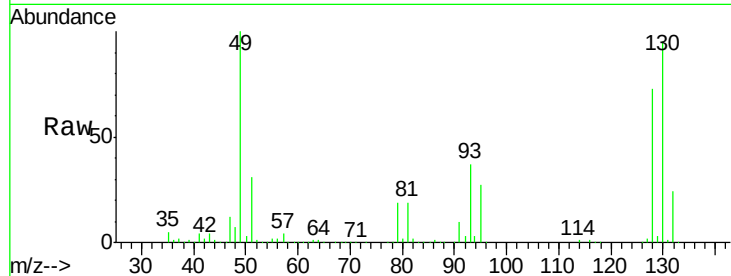
130 100.7 53.7 161.1

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#2

Dichlorodifluoromethane

Concen: 0.210 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.03 min

Lab File: VL035987.D

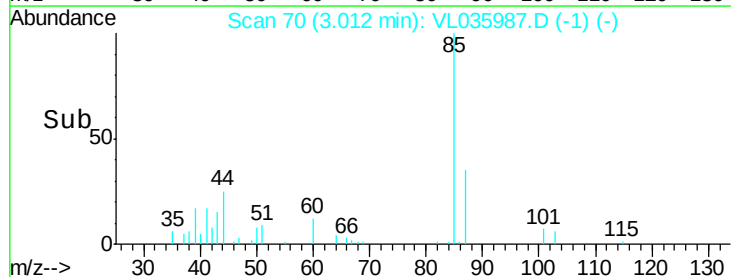
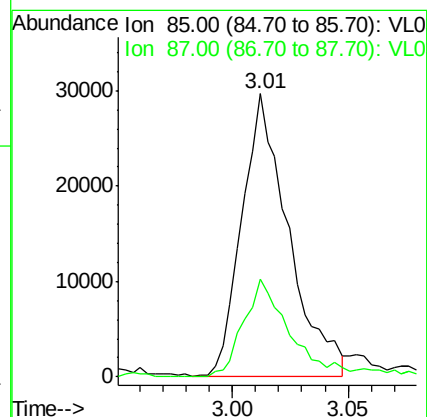
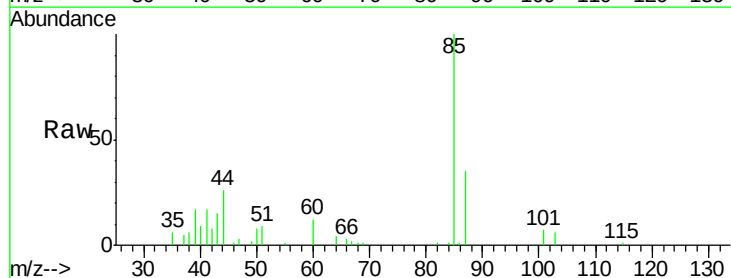
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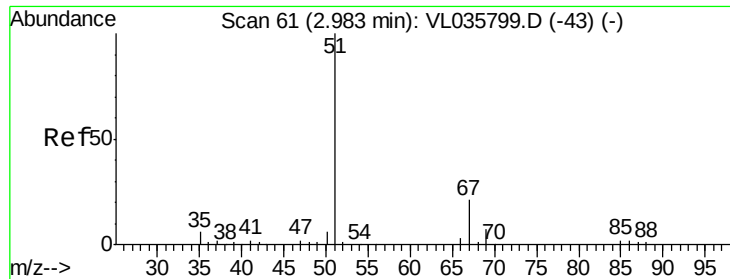
Tgt Ion: 85 Resp: 41669

Ion Ratio Lower Upper

85 100

87 34.6 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.562 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.03 min

Lab File: VL035987.D

Acq: 19 Nov 2020 00:04

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tot Ion: 51 Resp: 70944

Ion Ratio Lower Upper

51 100

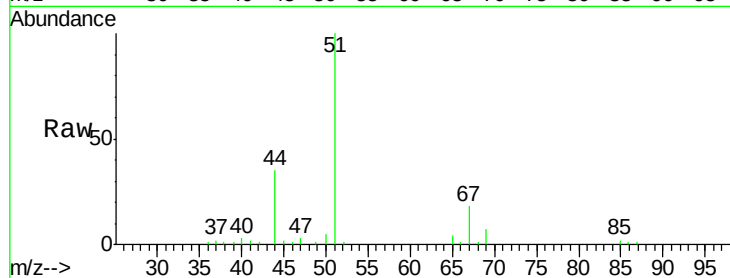
67 13.8 17.0 25.4#

Manual Integrations

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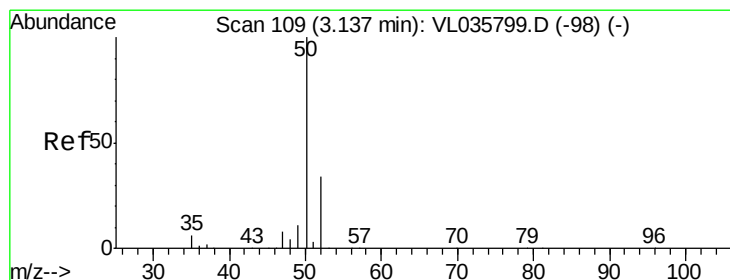
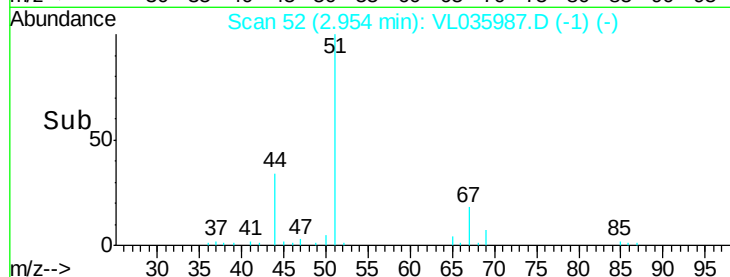
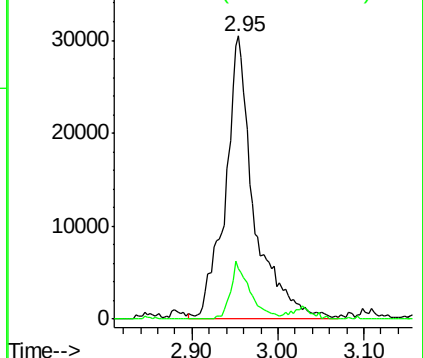
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.517 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.03 min

Lab File: VL035987.D

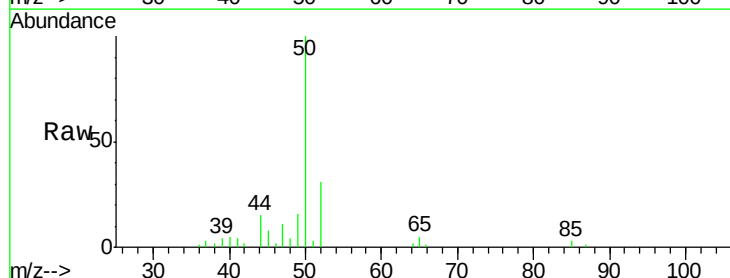
Acq: 19 Nov 2020 00:04

Tgt Ion: 50 Resp: 31717

Ion Ratio Lower Upper

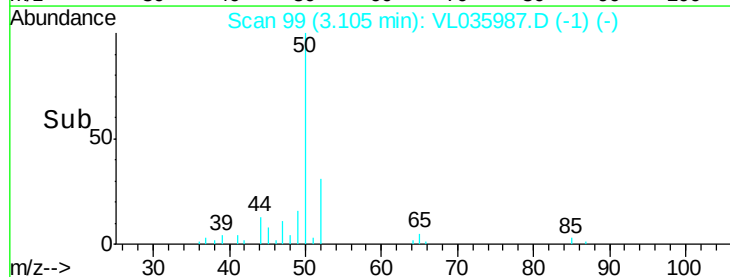
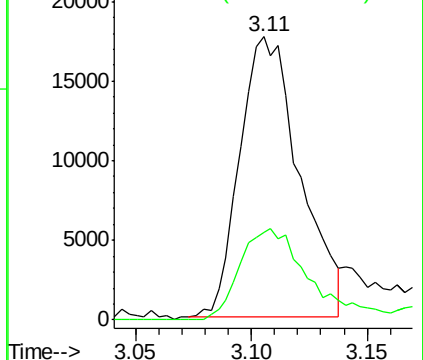
50 100

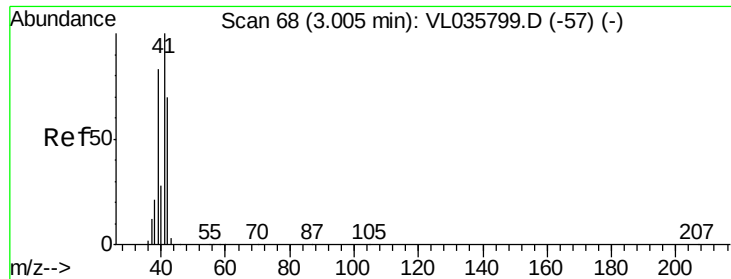
52 31.3 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.968 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.02 min

Lab File: VL035987.D

Acq: 19 Nov 2020 00:04

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 41 Resp: 44743

Ion Ratio Lower Upper

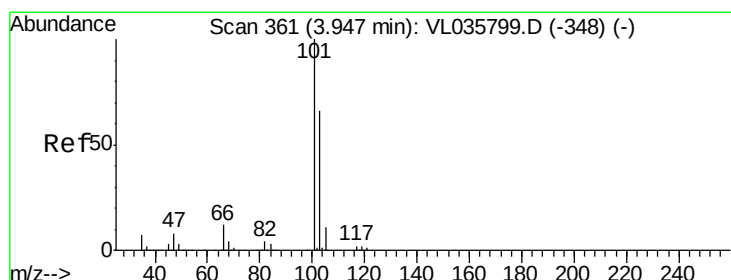
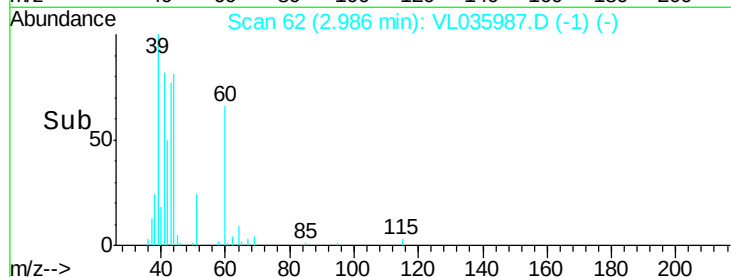
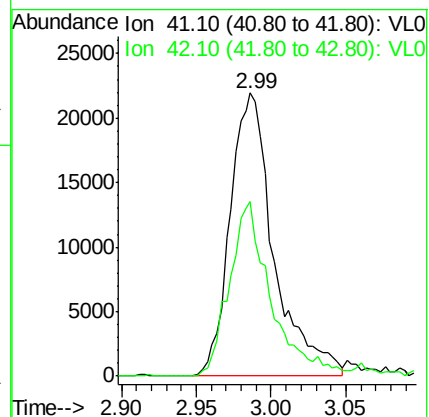
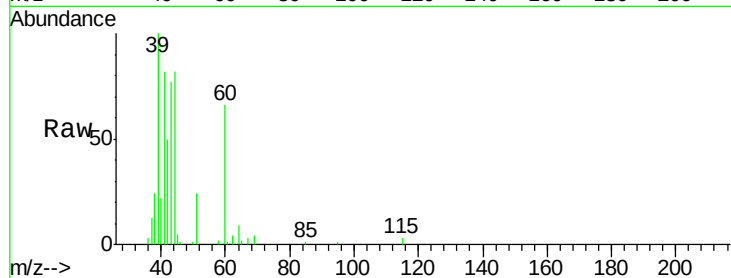
41 100

42 58.3 56.2 84.4

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#11

Trichlorofluoromethane

Concen: 0.297 ppbv

RT: 3.91 min Scan# 349

Delta R.T. -0.04 min

Lab File: VL035987.D

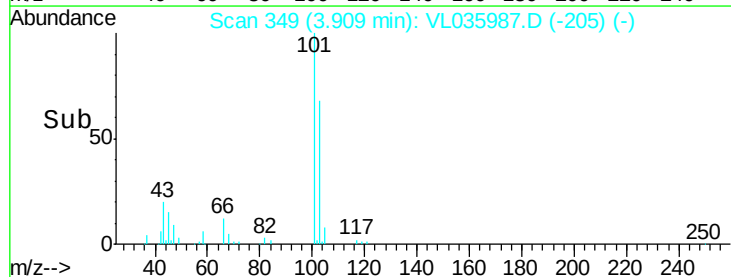
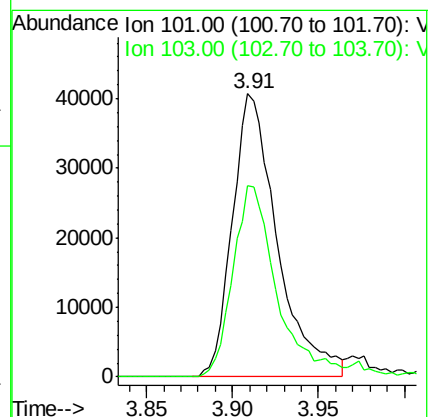
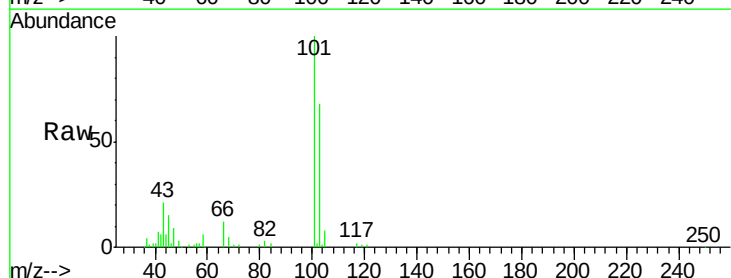
Acq: 19 Nov 2020 00:04

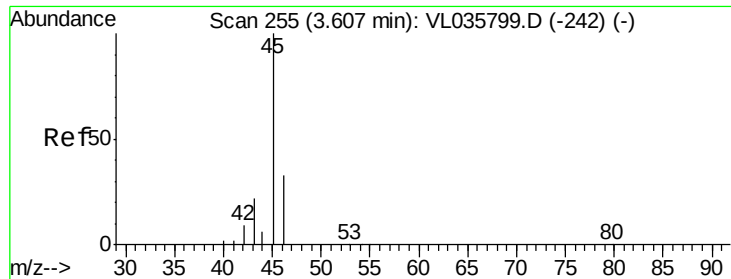
Tgt Ion: 101 Resp: 74069

Ion Ratio Lower Upper

101 100

103 67.7 53.0 79.4





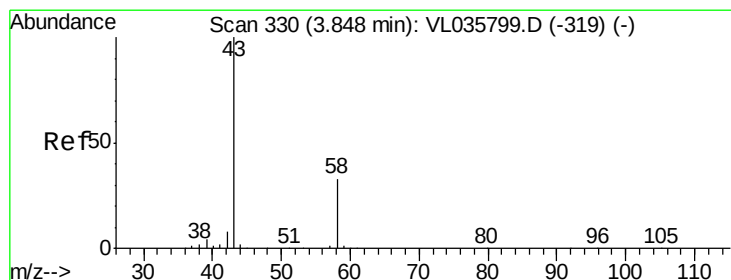
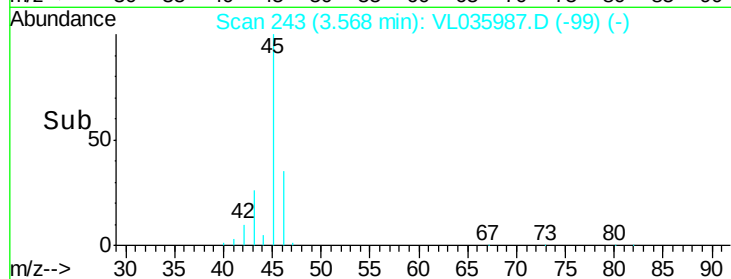
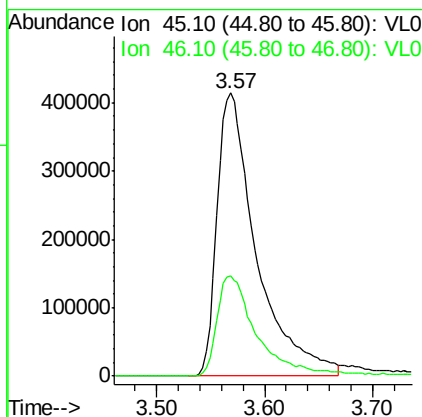
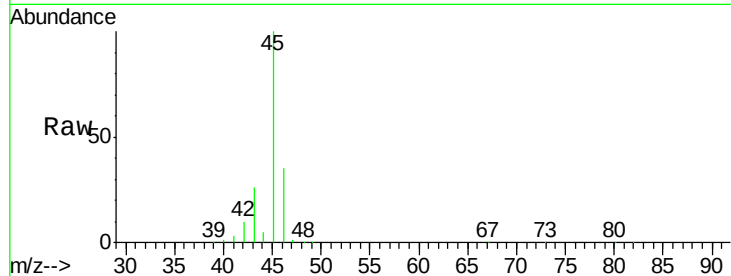
#13
Ethanol
Concen: 105.069 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.04 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tot Ion: 45 Resp: 1053126
Ion Ratio Lower Upper
45 100
46 37.3 16.1 64.5

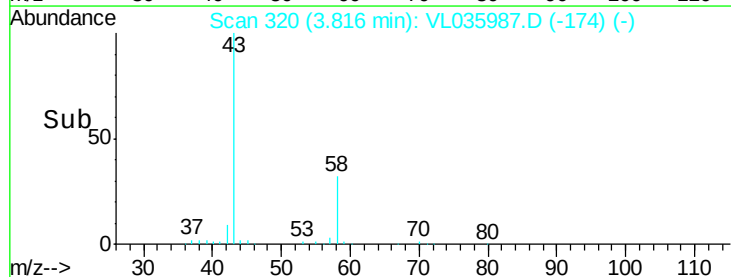
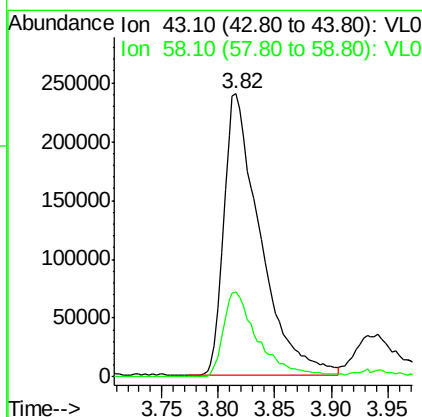
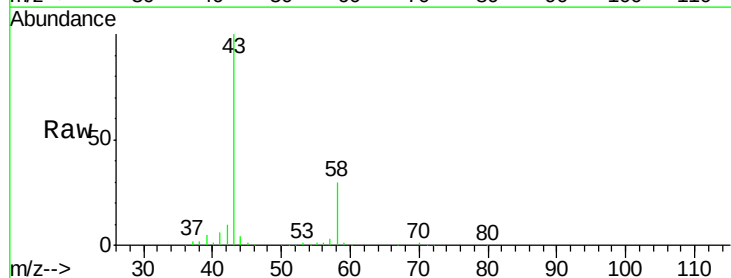
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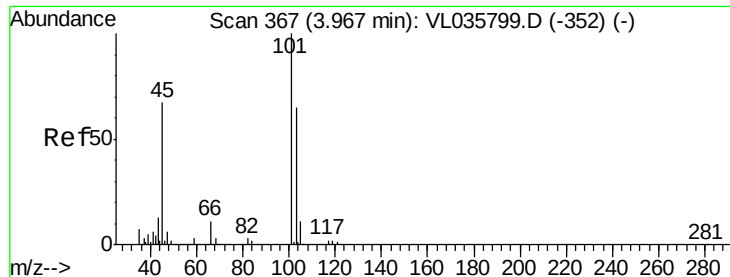
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#15
Acetone
Concen: 4.767 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.03 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Tgt Ion: 43 Resp: 537249
Ion Ratio Lower Upper
43 100
58 28.8 27.5 41.3





#19

Isopropyl Alcohol

Concen: 3.560 ppbv m

RT: 3.94 min Scan# 359

Delta R.T. -0.03 min

Lab File: VL035987.D

Acq: 19 Nov 2020 00:04

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 45 Resp: 246513

Ion Ratio Lower Upper

45 100

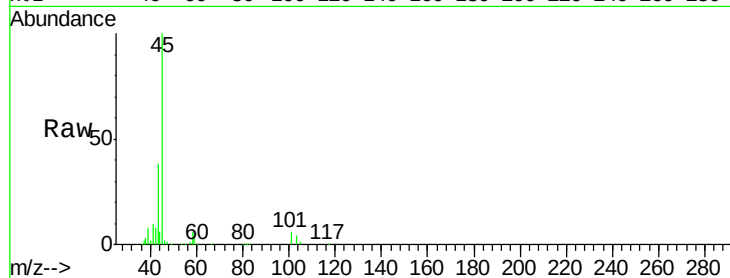
58 5.4 2.6 3.8#

Manual Integrations

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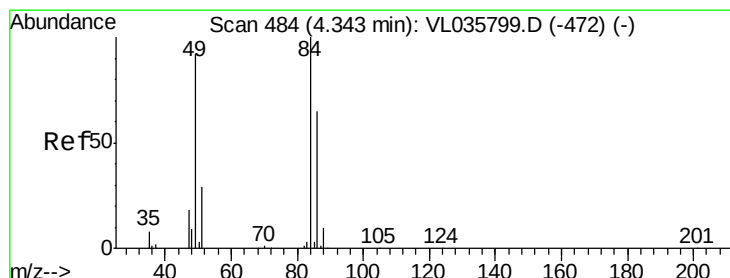
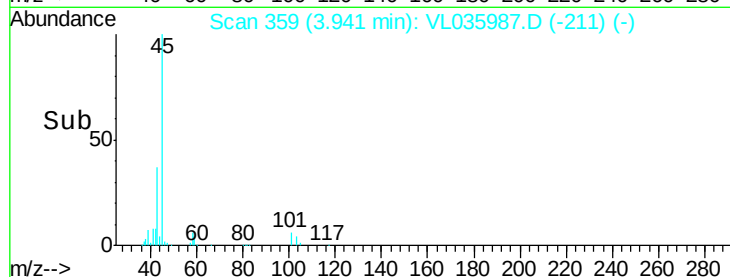
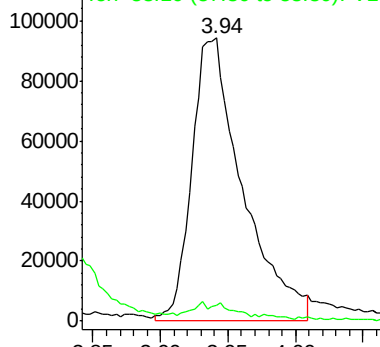
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.101 ppbv

RT: 4.30 min Scan# 471

Delta R.T. -0.04 min

Lab File: VL035987.D

Acq: 19 Nov 2020 00:04

Tgt Ion: 84 Resp: 87319

Ion Ratio Lower Upper

84 100

49 91.9 73.8 110.8

51 26.5 23.0 34.4

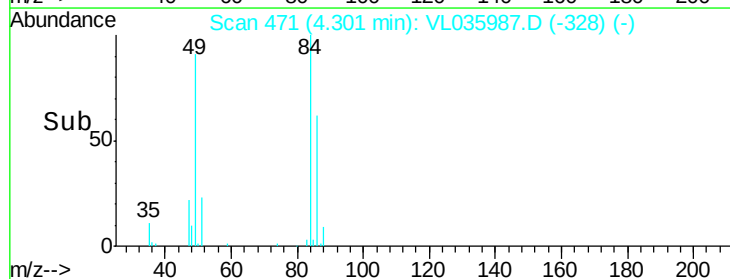
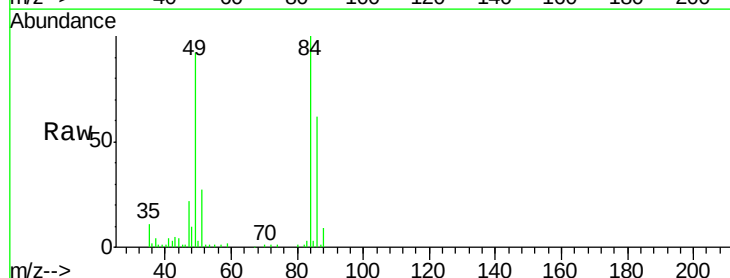
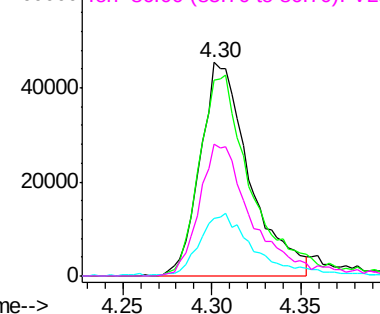
86 61.9 52.1 78.1

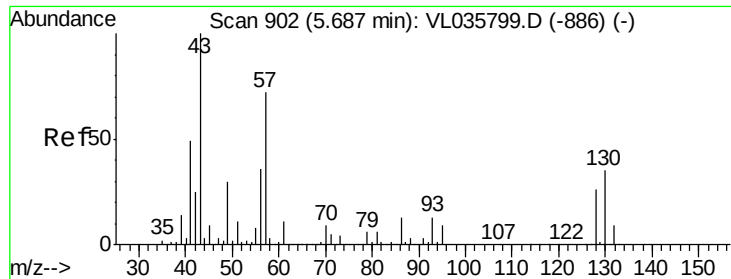
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





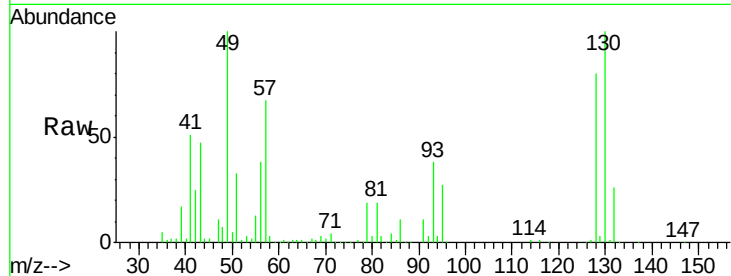
#26
Hexane
Concen: 2.056 ppbv
RT: 5.64 min Scan# 888
Delta R.T. -0.04 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		251691		
41	82.7	58.9		88.3	
43	76.9	150.2		225.2	
56	60.4	42.4		63.6	

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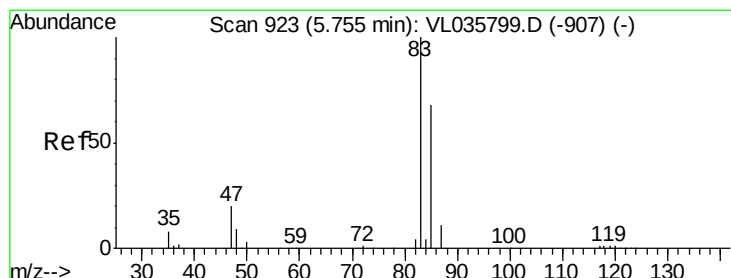
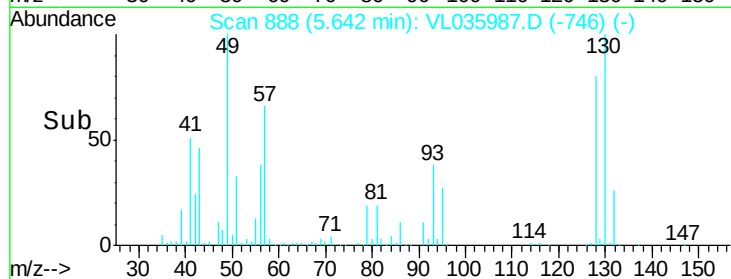
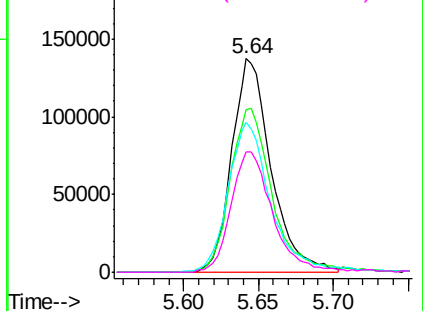
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

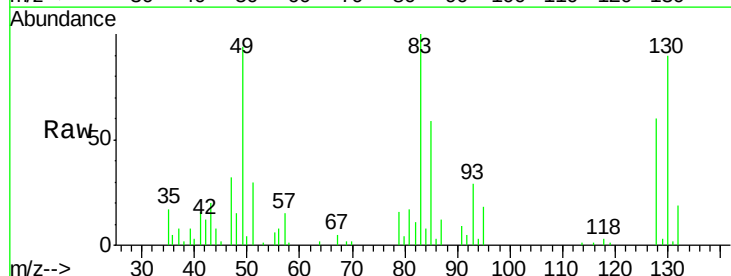
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.130 ppbv m
RT: 5.71 min Scan# 909
Delta R.T. -0.04 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

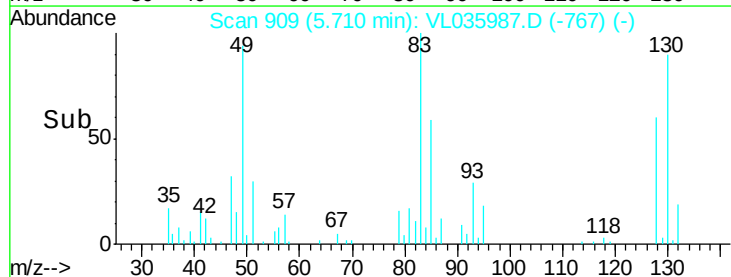
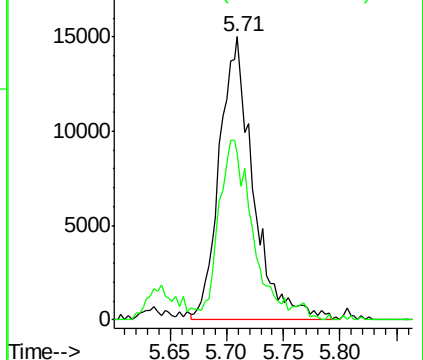
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		31198		
85	59.1	54.6		81.8	

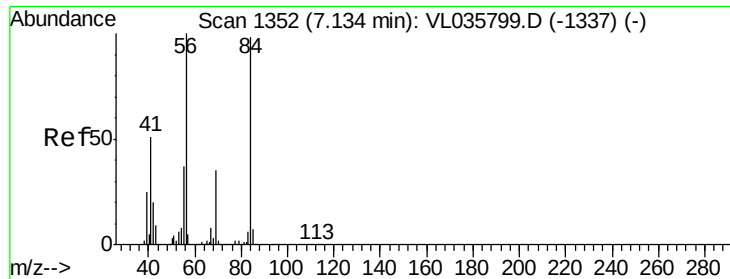


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





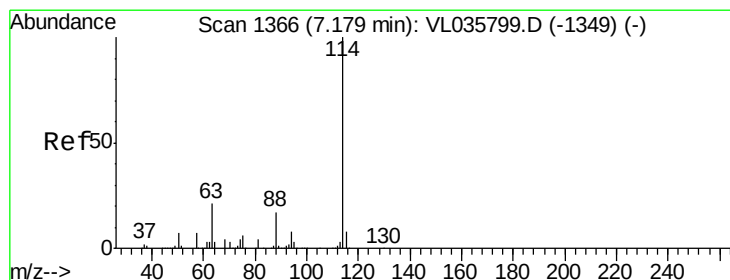
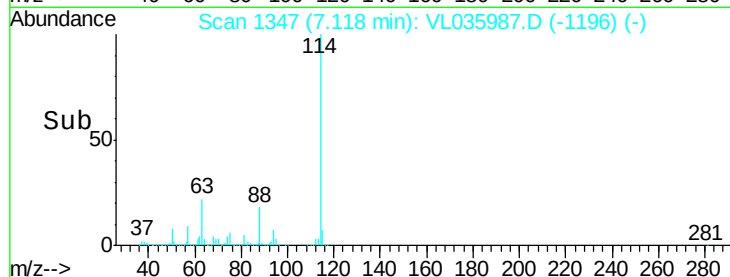
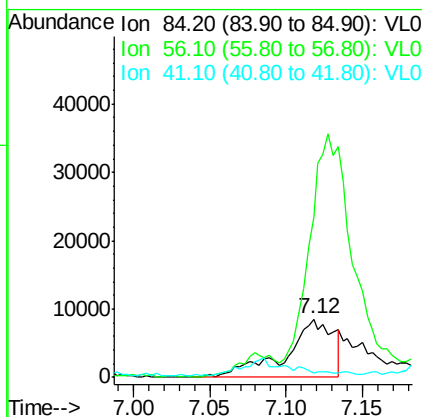
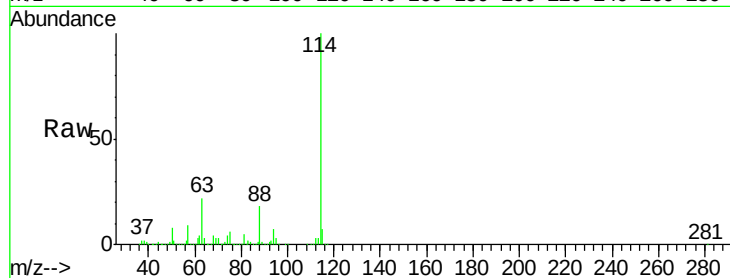
#30
Cvclohexane
Concen: 0.139 ppbv m
RT: 7.12 min Scan# 1347
Delta R.T. -0.02 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Instrument :
MSVOA_L
ClientSampleId :
IA3

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

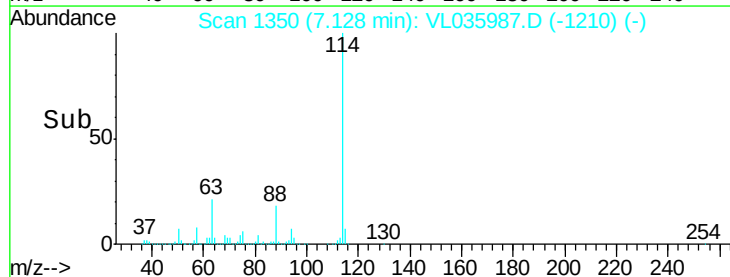
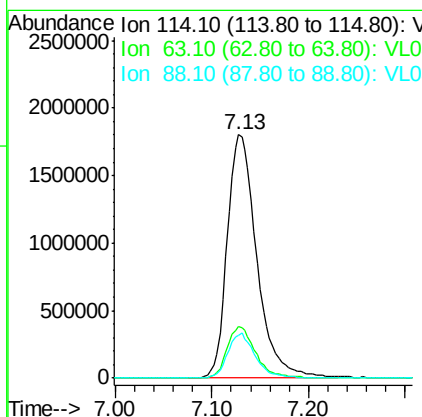
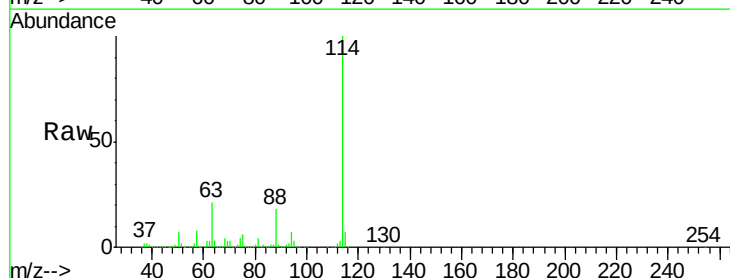
Manual Integrations
APPROVED

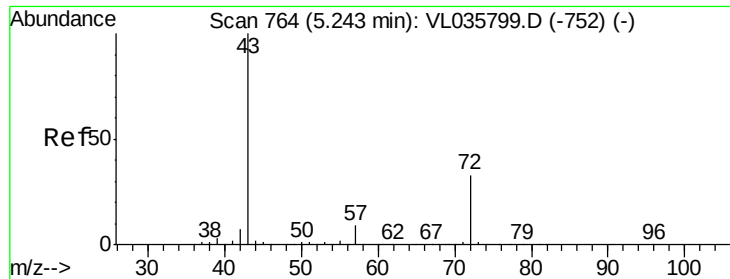
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.05 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.7	16.1	24.1
88	17.3	13.7	20.5





#34

2-Butanone

Concen: 0.195 ppbv

RT: 5.21 min Scan# 753

Delta R.T. -0.04 min

Lab File: VL035987.D

Acq: 19 Nov 2020 00:04

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tot Ion: 43 Resp: 24268

Ion Ratio Lower Upper

43 100

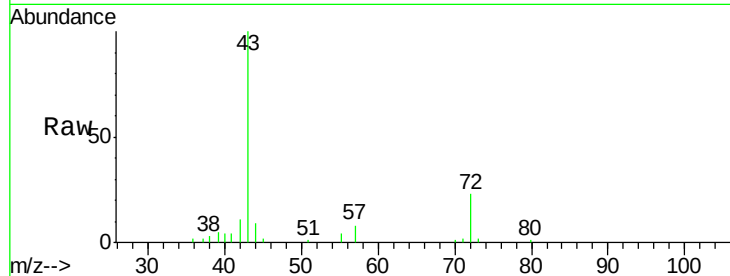
72 38.8 26.5 39.7

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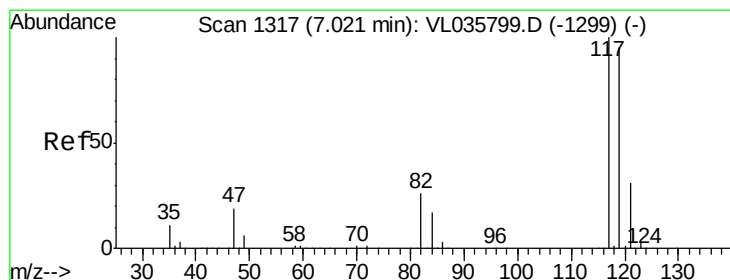
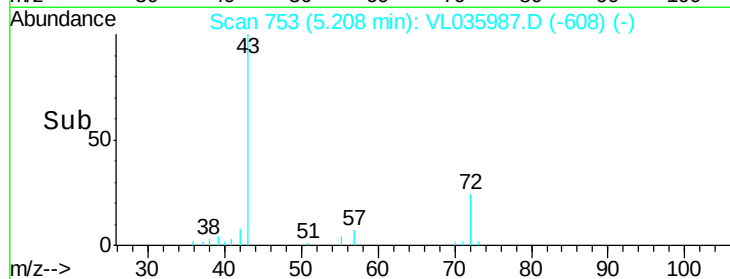
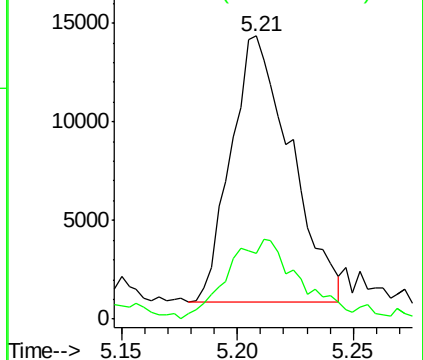
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11/20/2020 12:28:13 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.070 ppbv

RT: 6.97 min Scan# 1302

Delta R.T. -0.05 min

Lab File: VL035987.D

Acq: 19 Nov 2020 00:04

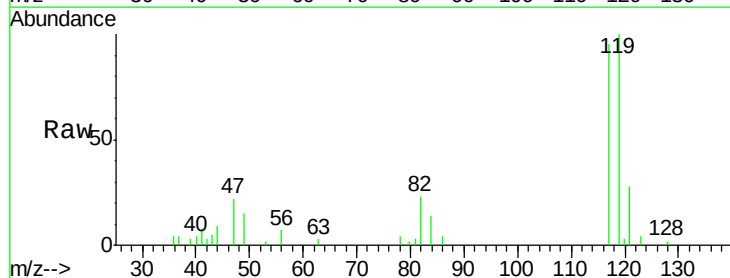
Tgt Ion: 117 Resp: 14276

Ion Ratio Lower Upper

117 100

119 104.8 75.6 113.4

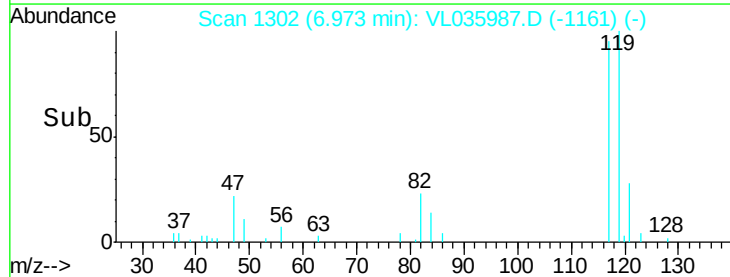
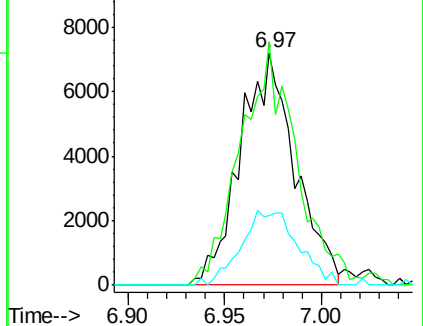
121 29.7 25.1 37.7

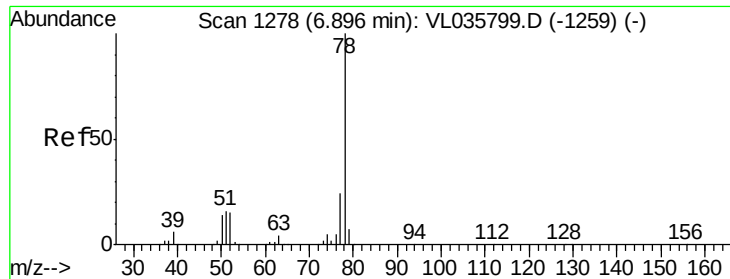


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





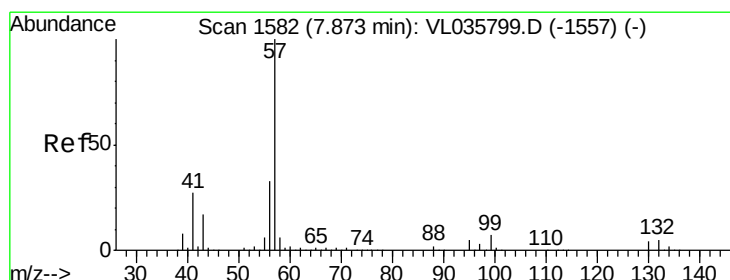
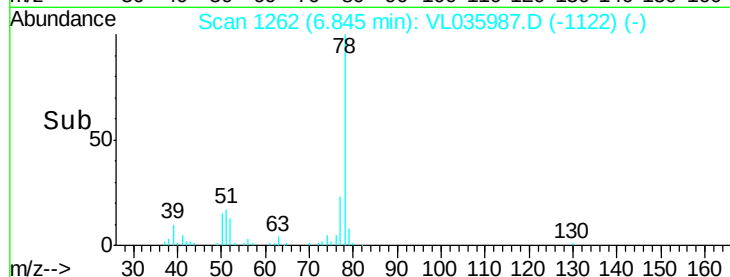
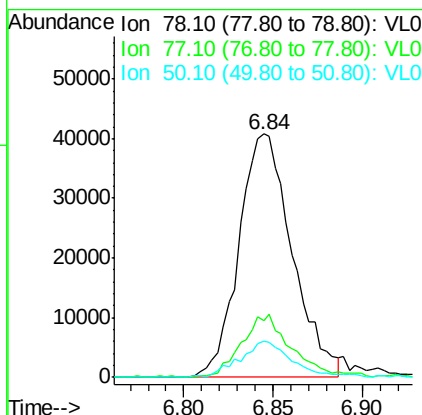
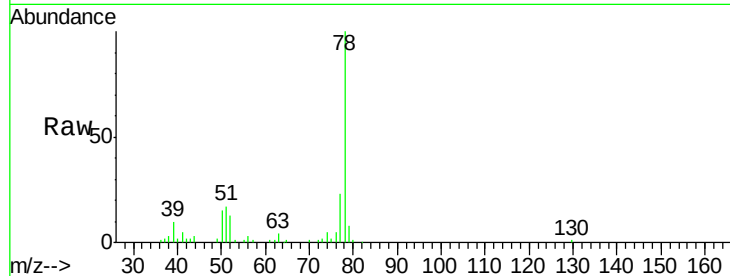
#36
Benzene
Concen: 0.297 ppbv
RT: 6.84 min Scan# 1262
Delta R.T. -0.05 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.3	28.9
50	15.1	11.4	17.2

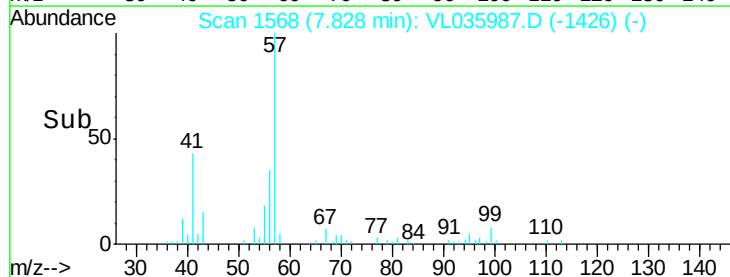
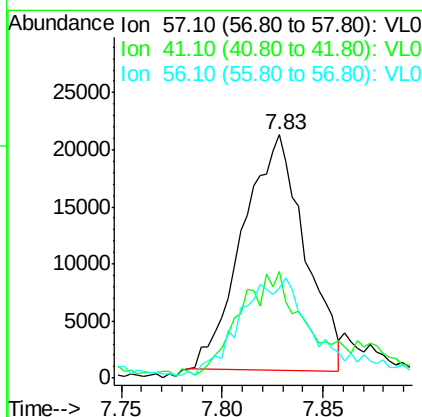
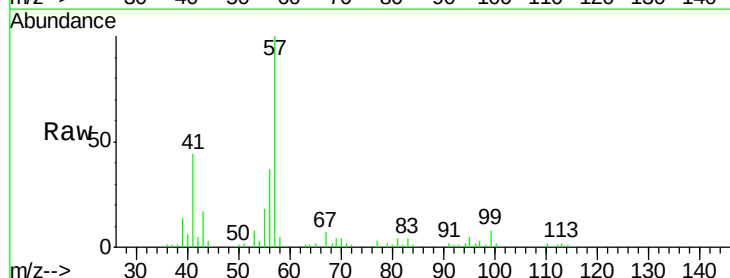
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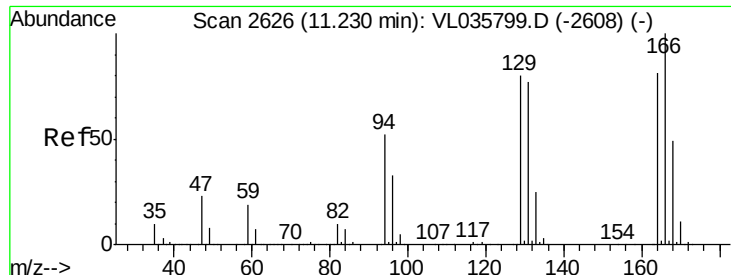
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#44
2,2,4-Trimethylpentane
Concen: 0.117 ppbv
RT: 7.83 min Scan# 1568
Delta R.T. -0.04 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Tgt Ion	Ratio	Lower	Upper
57	100		
41	55.4	21.0	31.4#
56	56.3	25.4	38.0#





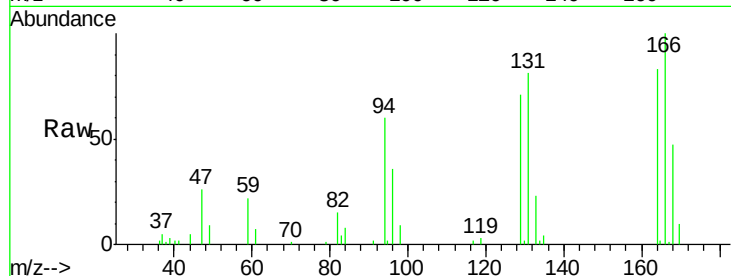
#52
Tetrachloroethene
Concen: 0.174 ppbv m
RT: 11.18 min Scan# 2609
Delta R.T. -0.05 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion	Ratio	Lower	Upper
164	100		
166	121.1	99.3	148.9
129	86.2	79.3	118.9
131	98.6	76.5	114.7

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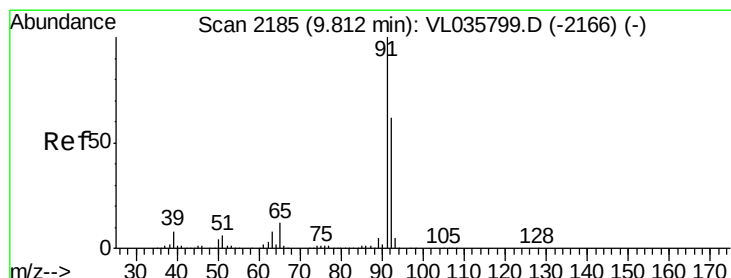
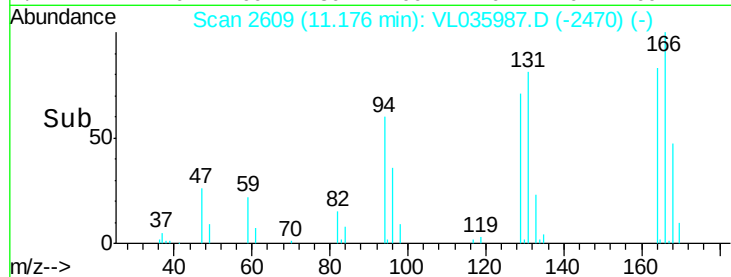
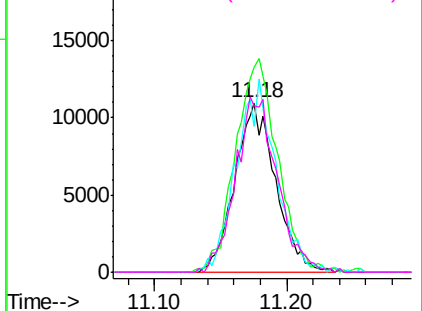
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

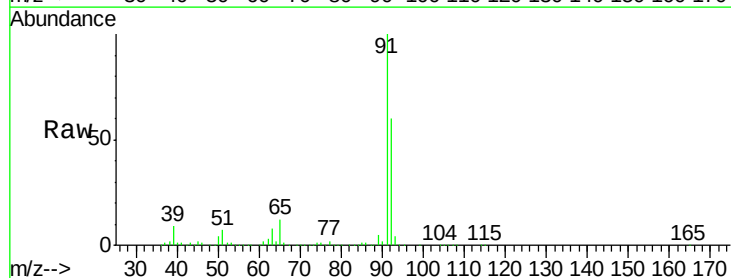
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53
Toluene
Concen: 6.412 ppbv
RT: 9.76 min Scan# 2168
Delta R.T. -0.05 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

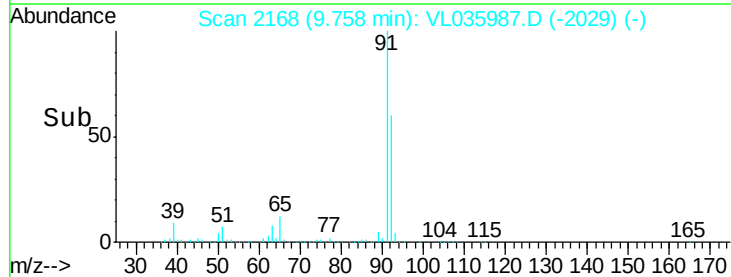
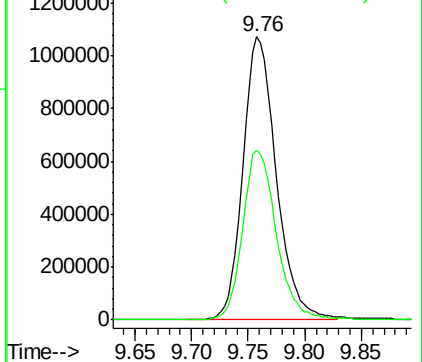
Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.1	49.8	74.6

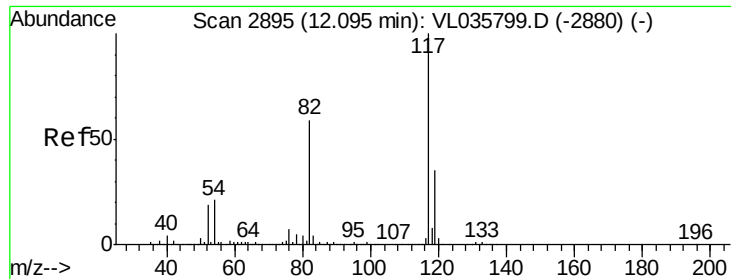


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





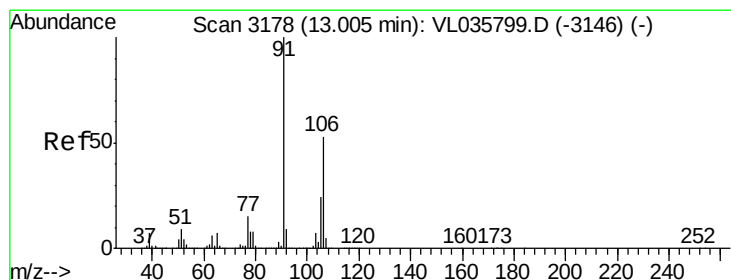
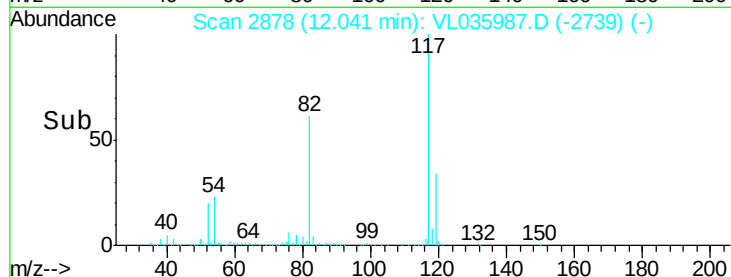
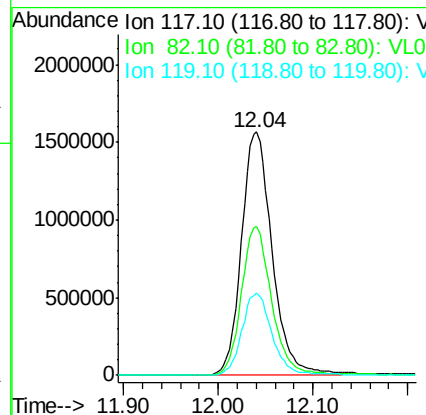
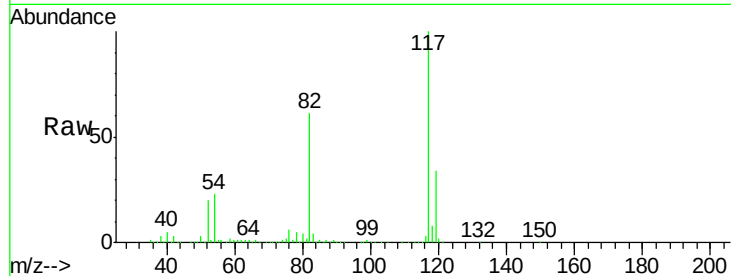
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min Scan# 2878
Delta R.T. -0.05 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.5	50.6	76.0
119	33.8	52.6	78.8

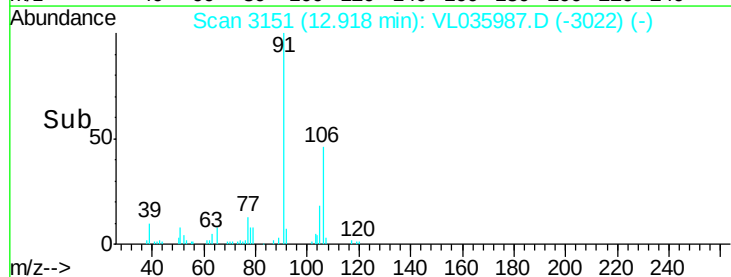
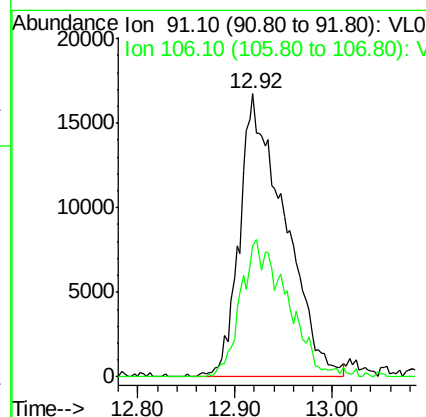
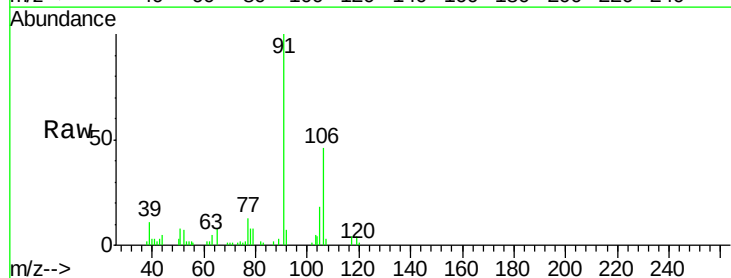
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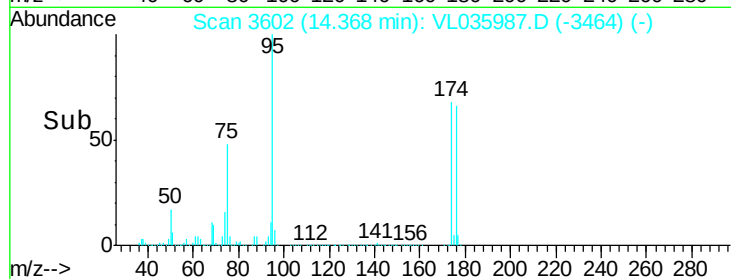
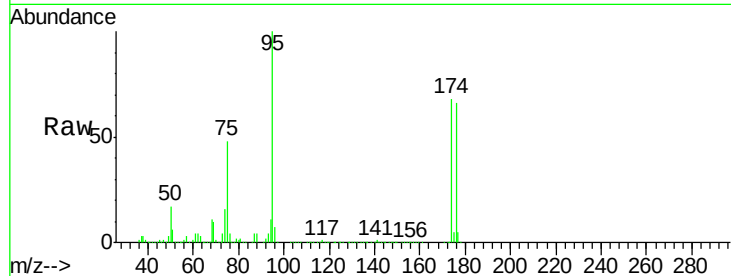
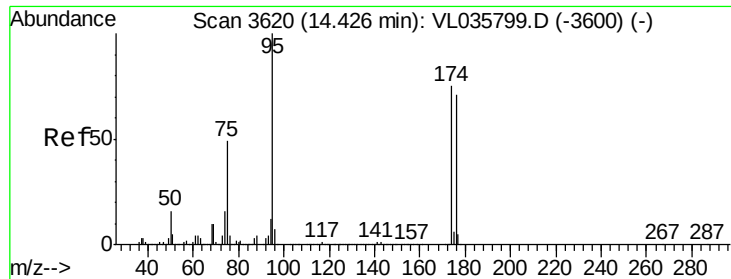
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#59
m/p-Xylene
Concen: 0.148 ppbv m
RT: 12.92 min Scan# 3151
Delta R.T. -0.09 min
Lab File: VL035987.D
Acq: 19 Nov 2020 00:04

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	39.5	59.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.631 ppbv

RT: 14.37 min Scan# 3602

Delta R.T. -0.06 min

Lab File: VL035987.D

Acq: 19 Nov 2020 00:04

Tot Ion: 95 Resp: 2670635

Ion Ratio Lower Upper

95 100

174 70.1 59.8 89.6

175 4.9 4.3 6.5

Instrument :

MSVOA_L

ClientSampleId :

IA3

Manual Integrations

APPROVED

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