

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035810.D
 Acq On : 3 Nov 2020 19:23
 Operator : SY/AP
 Sample : L4604-05DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Manual Integrations
 APPROVED

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 11/5/2020 2:13:47 PM

Quant Time: Nov 04 05:36:07 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	5.65	49	1116560	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	5092417	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	4656736	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3248373	9.82	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	62685	0.298 ppbv	98
3) Chlorodifluoromethane	2.97	51	47760	0.357 ppbv	92
4) Chloromethane	3.13	50	30825	0.475 ppbv	97
9) Propene	3.01	41	34589	0.707 ppbv	83
10) Heptane	8.10	43	14927	0.110 ppbv	93
11) Trichlorofluoromethane	3.93	101	60897	0.231 ppbv	91
13) Ethanol	3.59	45	110267	10.386 ppbv	97
15) Acetone	3.84	43	400787	3.358 ppbv #	88
19) Isopropyl Alcohol	3.97	45	34273m	0.467 ppbv	
20) Methylene Chloride	4.33	84	141005	1.678 ppbv	97
26) Hexane	5.67	57	123457	0.952 ppbv #	46
30) Cyclohexane	7.11	84	26549m	0.188 ppbv	
34) 2-Butanone	5.24	43	35363	0.214 ppbv #	87
35) Carbon Tetrachloride	7.00	117	18810	0.069 ppbv #	95
36) Benzene	6.87	78	91326	0.241 ppbv	95
44) 2,2,4-Trimethylpentane	7.85	57	119559	0.239 ppbv	91
53) Toluene	9.79	91	461060	1.009 ppbv	98
59) m/p-Xylene	12.95	91	103949	0.217 ppbv	94

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

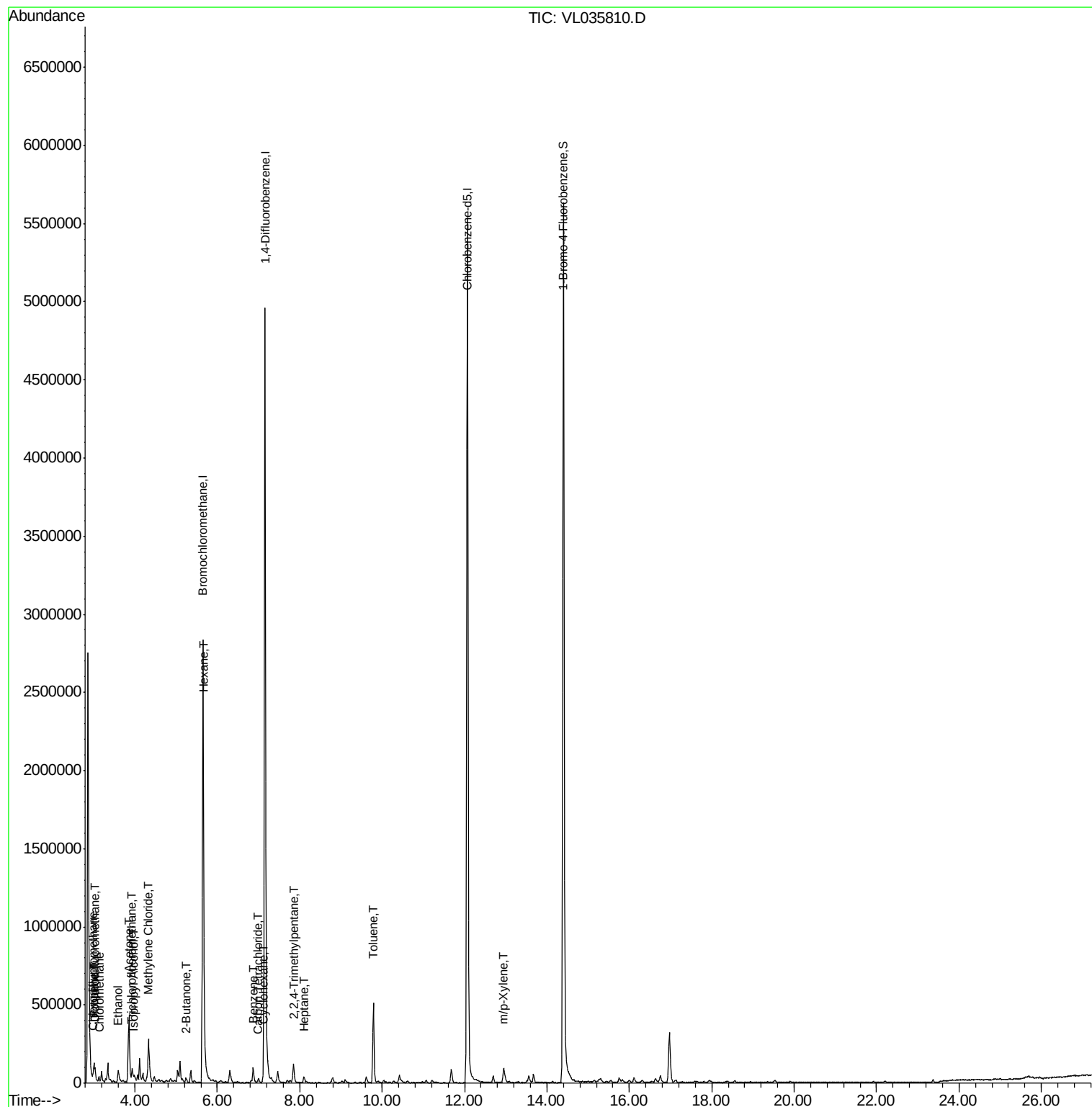
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110320\
Data File : VL035810.D
Acq On : 3 Nov 2020 19:23
Operator : SY/AP
Sample : L4604-05DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

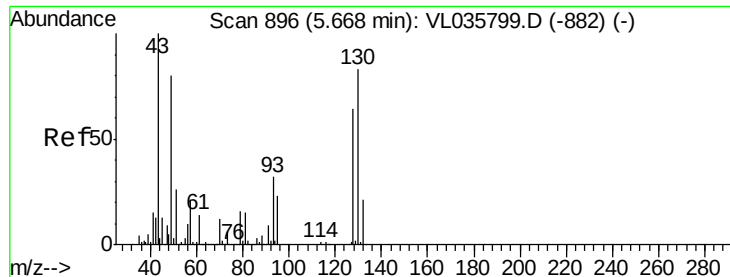
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Quant Time: Nov 04 05:36:07 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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

ClientSampleId :

QA1DUP

Tot Ion: 49 Resp: 1116560

Ion Ratio Lower Upper

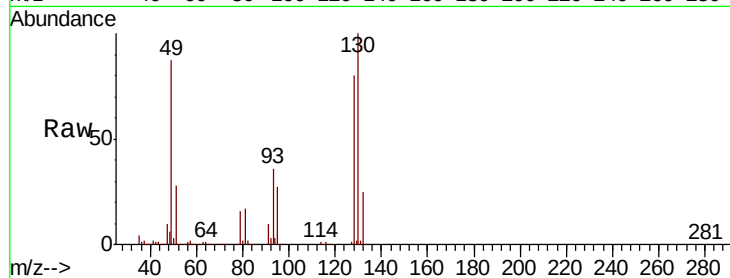
49 100

128 93.1 41.5 124.6

130 120.1 53.7 161.1

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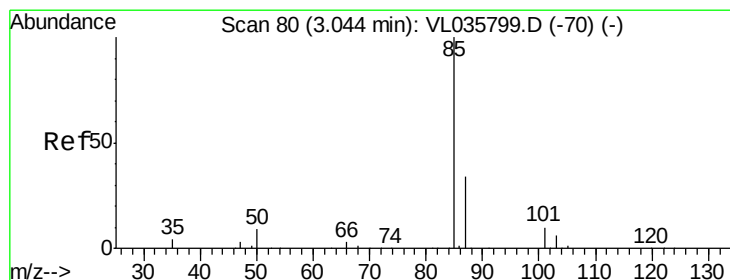
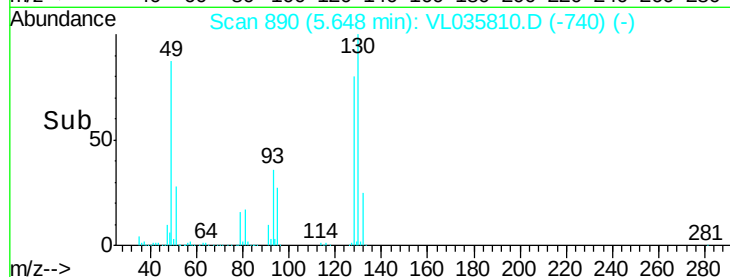
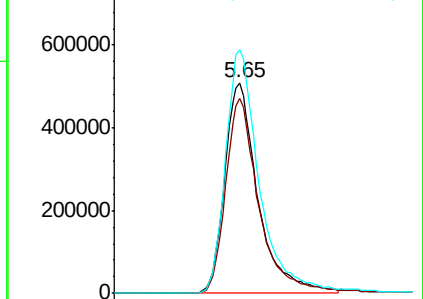
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Abundance Ion 49.10 (48.80 to 49.80): VL035810.D (-740) (-)

Ion 128.00 (127.70 to 128.70): VL035810.D (-740) (-)

Ion 130.00 (129.70 to 130.70): VL035810.D (-740) (-)



#2

Dichlorodifluoromethane

Concen: 0.298 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL035810.D

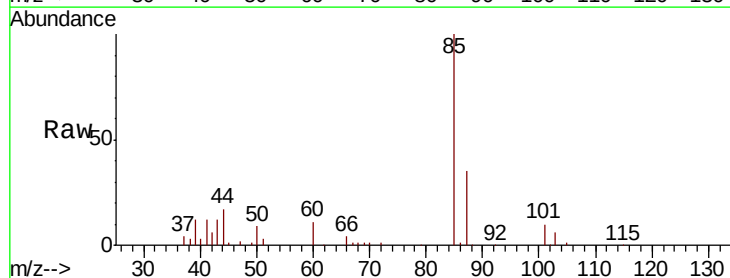
Acq: 3 Nov 2020 19:23

Tgt Ion: 85 Resp: 62685

Ion Ratio Lower Upper

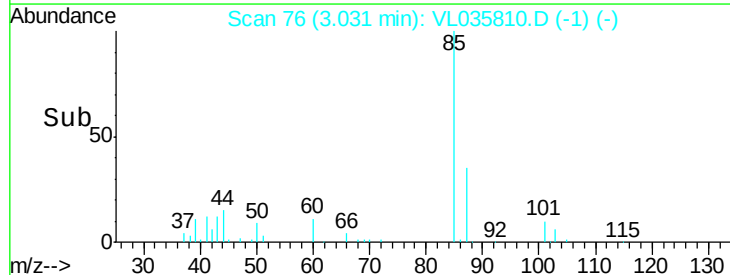
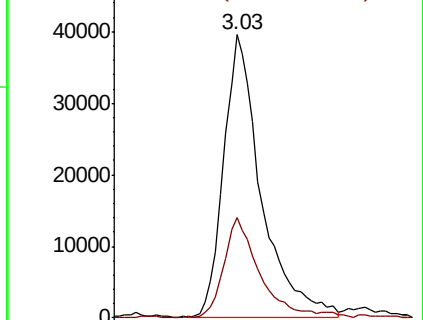
85 100

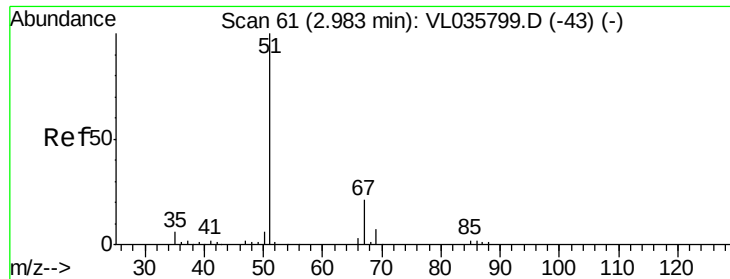
87 34.8 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL035810.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VL035810.D (-1) (-)





#3

Chlorodifluoromethane

Concen: 0.357 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

ClientSampleId :

QA1DUP

Tot Ion: 51 Resp: 47760

Ion Ratio Lower Upper

51 100

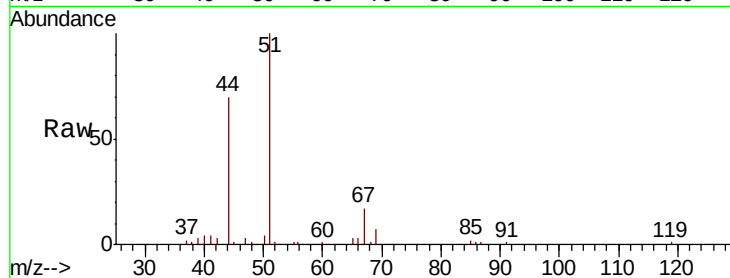
67 17.7 17.0 25.4

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

25000

20000

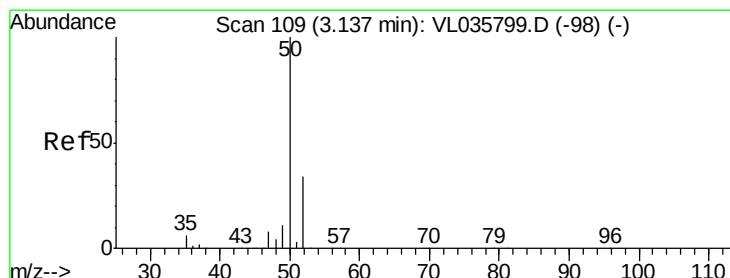
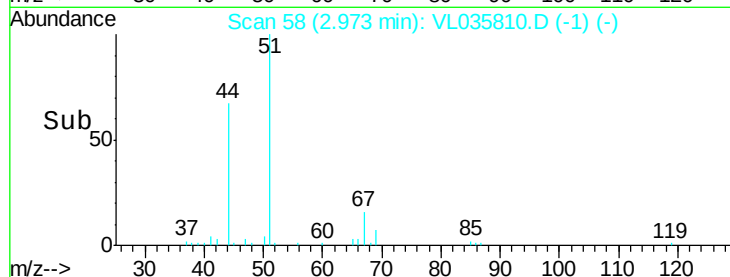
15000

10000

5000

0

Time--> 2.80 2.90 3.00 3.10



#4

Chloromethane

Concen: 0.475 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL035810.D

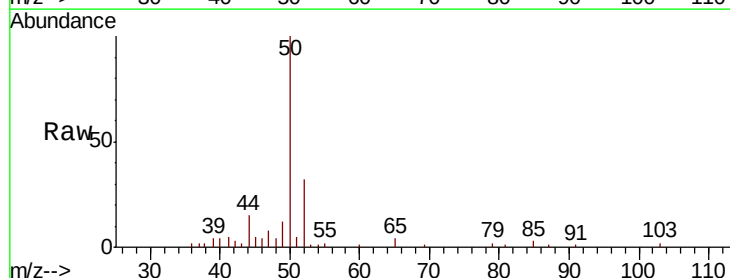
Acq: 3 Nov 2020 19:23

Tgt Ion: 50 Resp: 30825

Ion Ratio Lower Upper

50 100

52 32.3 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

20000

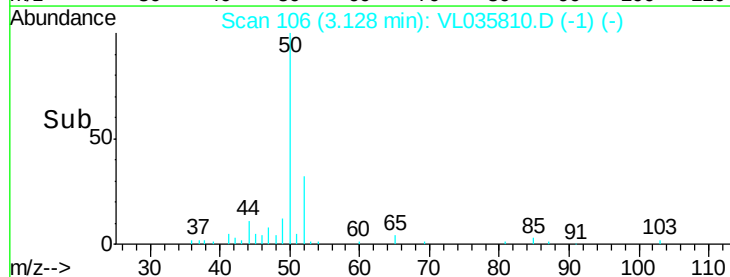
15000

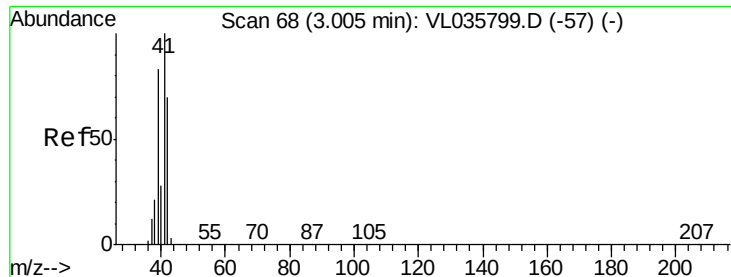
10000

5000

0

Time--> 3.10 3.15





#9

Propene

Concen: 0.707 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

ClientSampleId :

QA1DUP

Tot Ion: 41 Resp: 34589

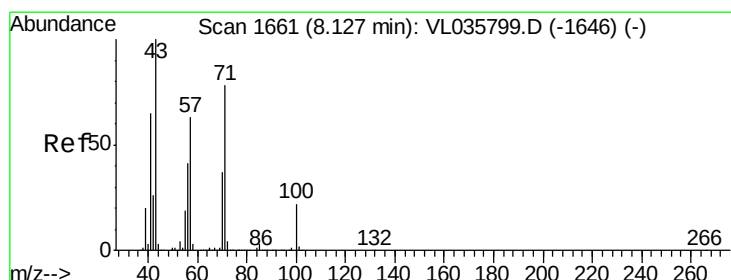
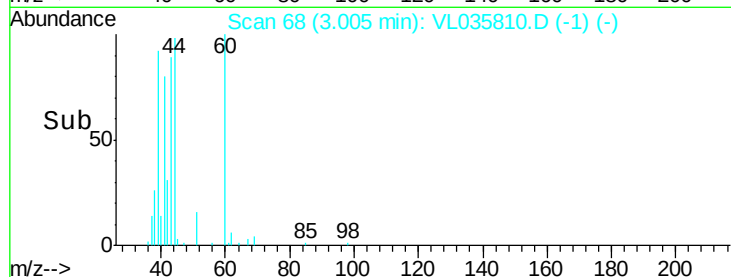
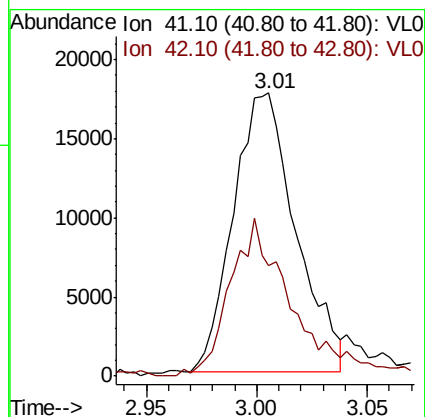
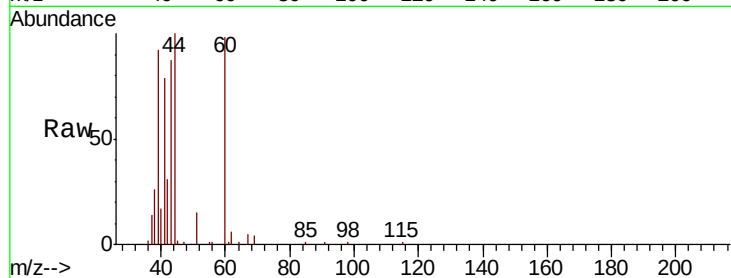
Ion Ratio Lower Upper

41 100

42 56.6 56.2 84.4

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#10

Heptane

Concen: 0.110 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL035810.D

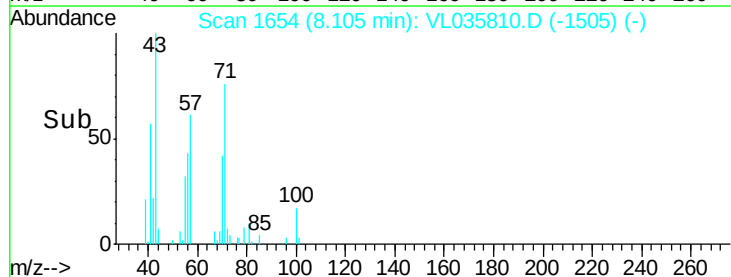
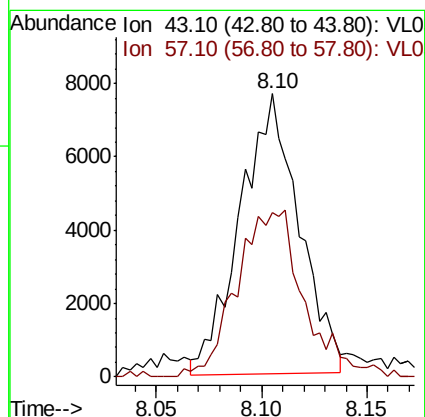
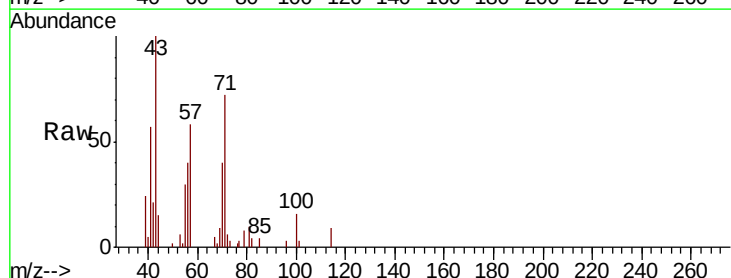
Acq: 3 Nov 2020 19:23

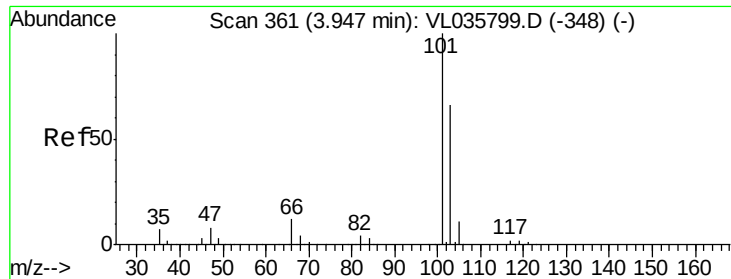
Tgt Ion: 43 Resp: 14927

Ion Ratio Lower Upper

43 100

57 68.0 50.0 75.0





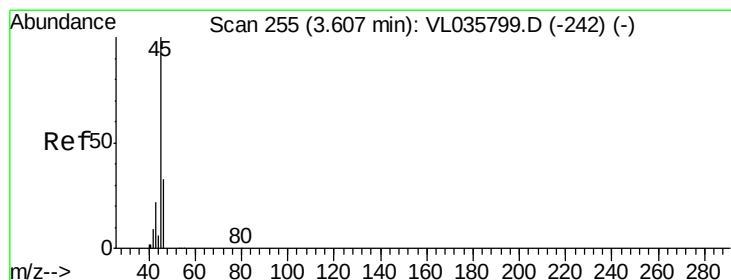
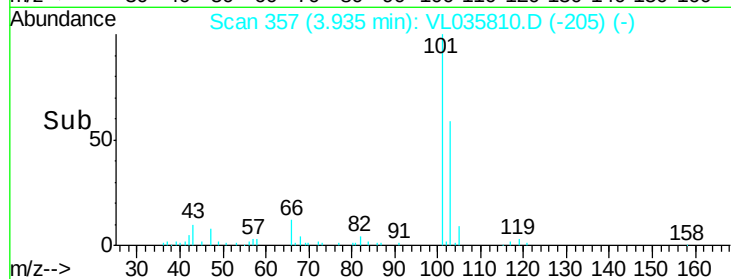
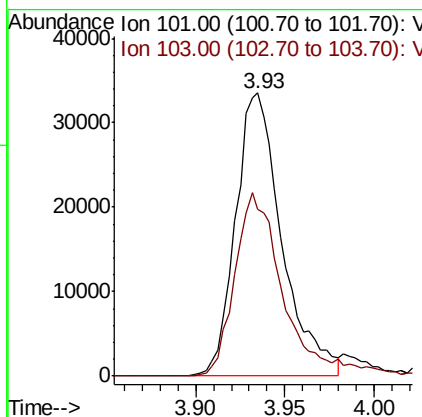
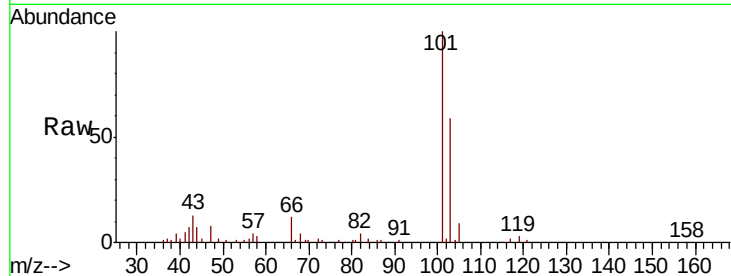
#11
Trichlorofluoromethane
Concen: 0.231 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.01 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.9	53.0	79.4

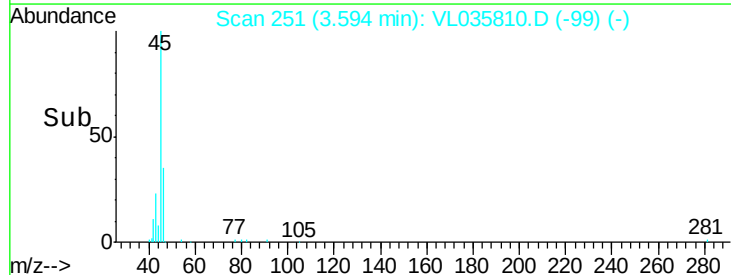
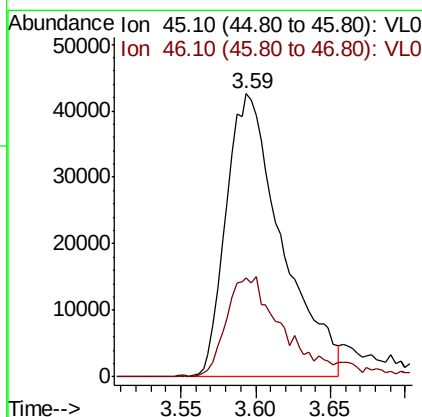
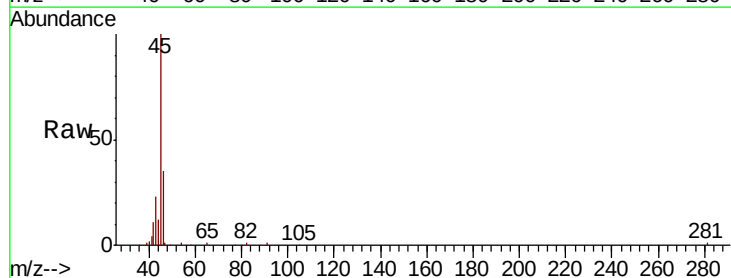
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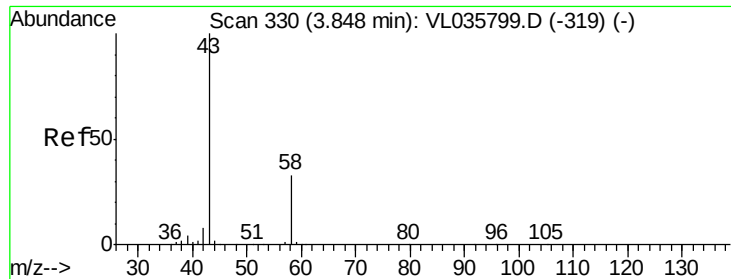
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#13
Ethanol
Concen: 10.386 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.4	16.1	64.5





#15

Acetone

Concen: 3.358 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035810.D

Acq: 3 Nov 2020 19:23

Instrument :

MSVOA_L

ClientSampleId :

QA1DUP

Tot Ion: 43 Resp: 400787

Ion Ratio Lower Upper

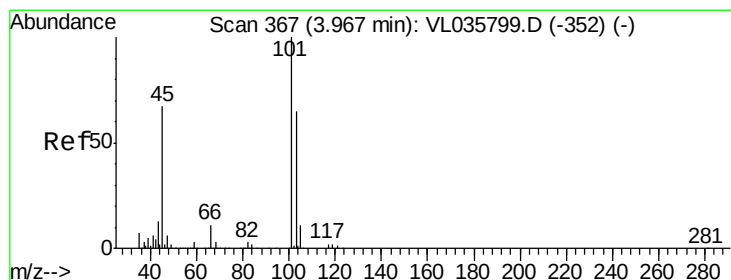
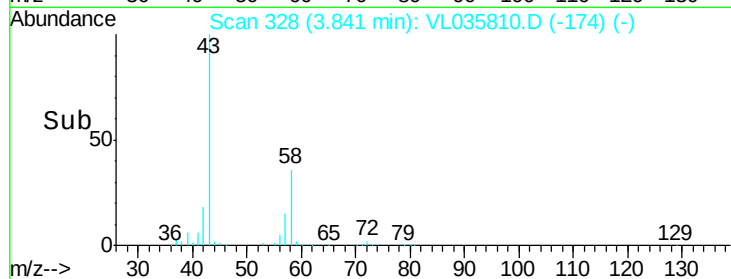
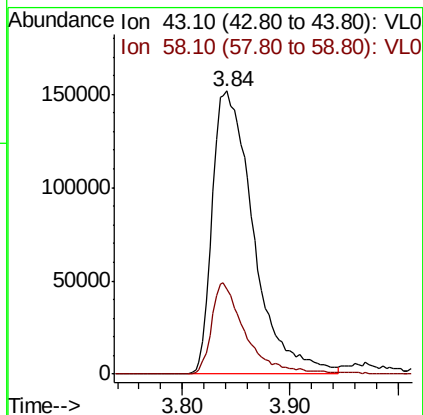
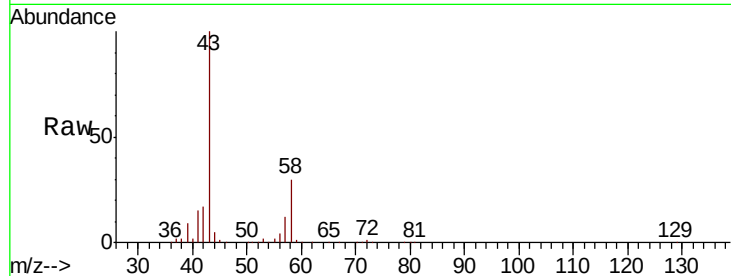
43 100

58 27.5 27.5 41.3#

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#19

Isopropyl Alcohol

Concen: 0.467 ppbv m

RT: 3.97 min Scan# 367

Delta R.T. 0.00 min

Lab File: VL035810.D

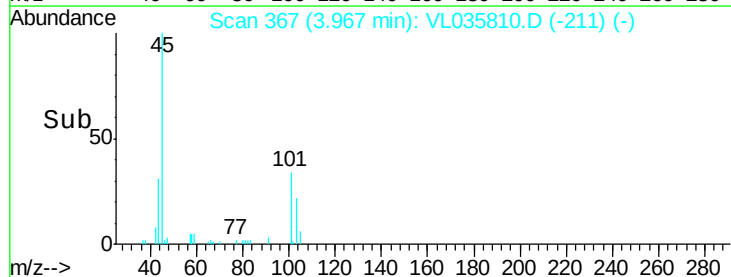
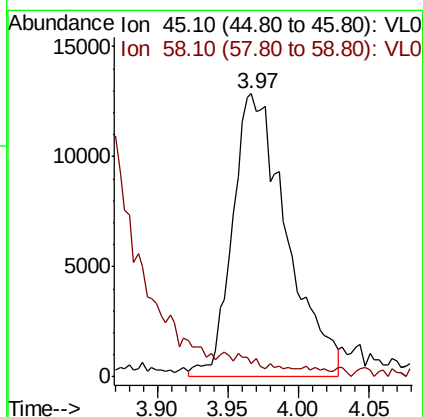
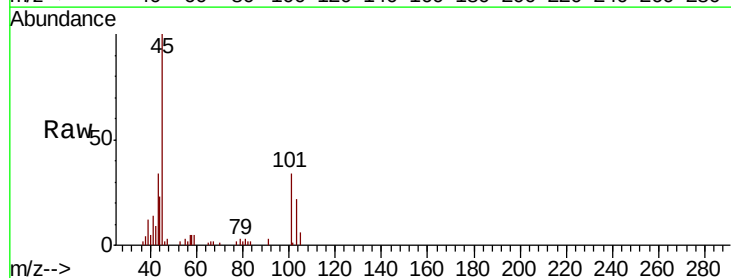
Acq: 3 Nov 2020 19:23

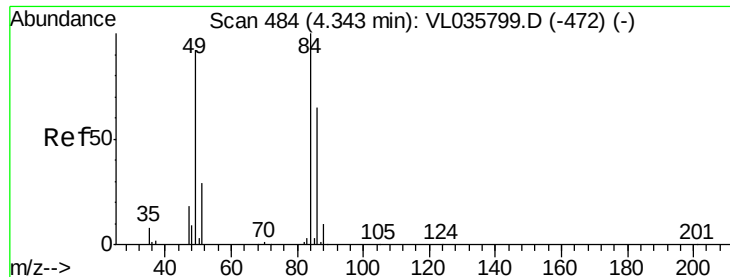
Tgt Ion: 45 Resp: 34273

Ion Ratio Lower Upper

45 100

58 0.0 2.6 3.8#





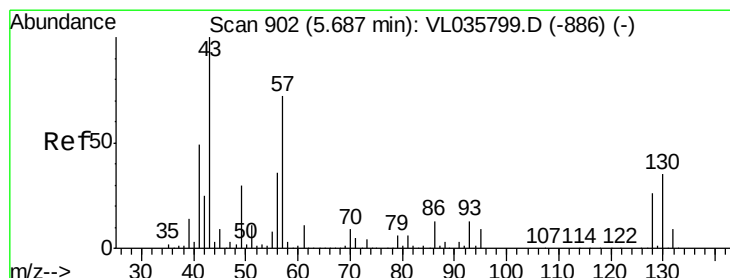
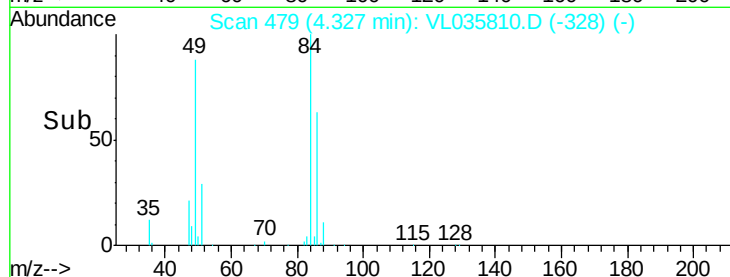
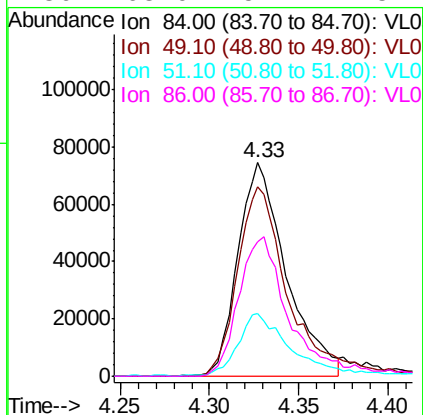
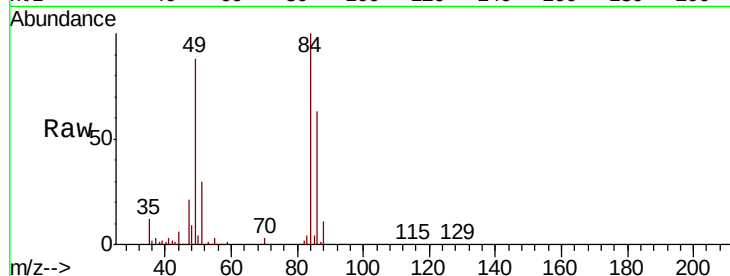
#20
Methvlene Chloride
Concen: 1.678 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.02 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

Tot Ion	84	Resp	141005
Ion Ratio	Lower	Upper	
84	100		
49	88.5	73.8	110.8
51	29.1	23.0	34.4
86	63.0	52.1	78.1

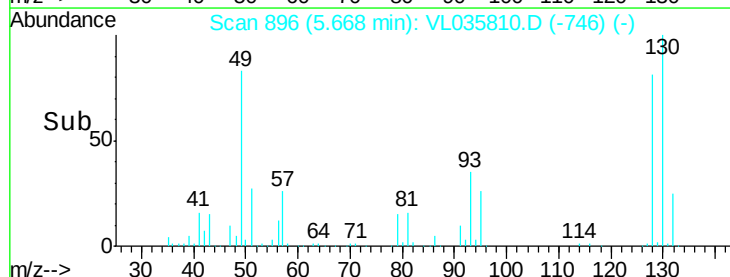
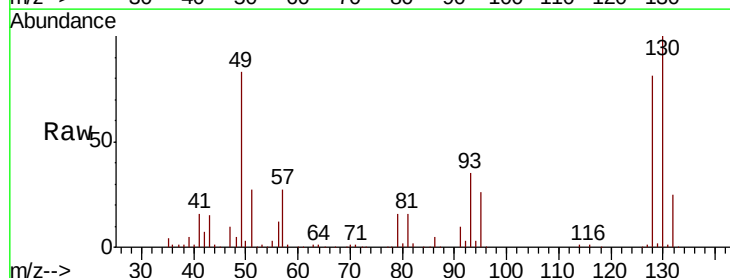
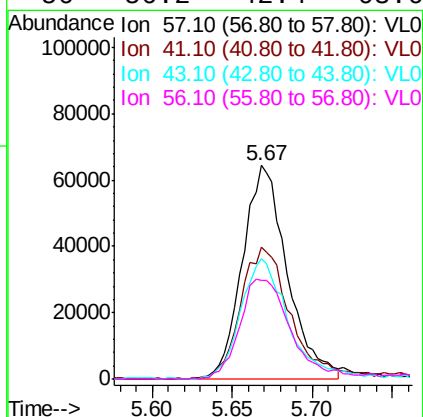
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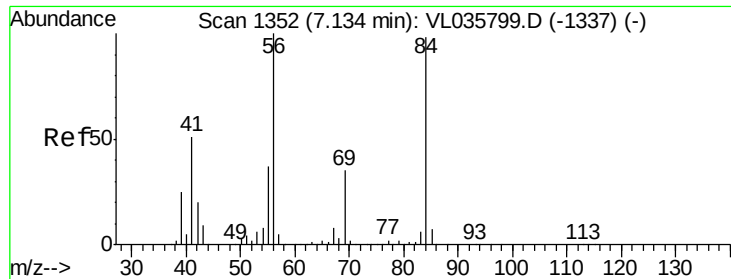
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#26
Hexane
Concen: 0.952 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion	57	Resp	123457
Ion Ratio	Lower	Upper	
57	100		
41	69.5	58.9	88.3
43	61.5	150.2	225.2#
56	56.2	42.4	63.6





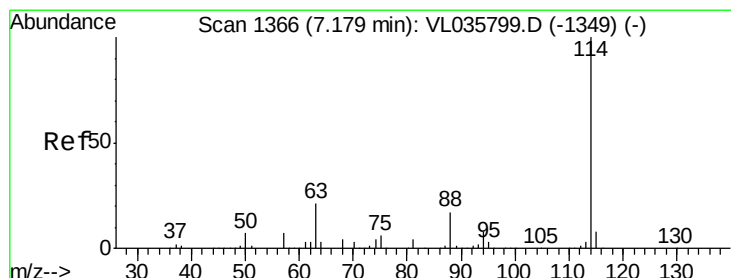
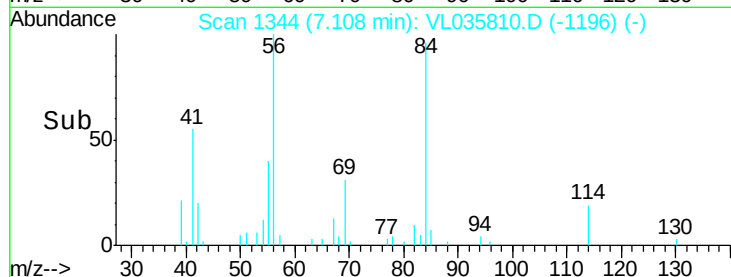
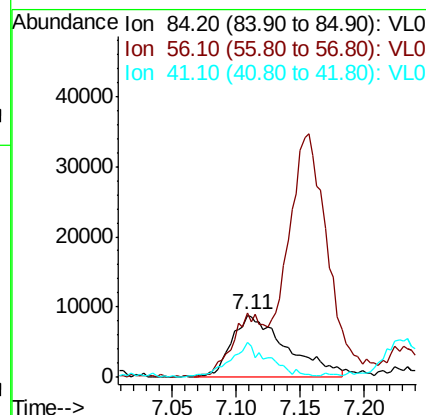
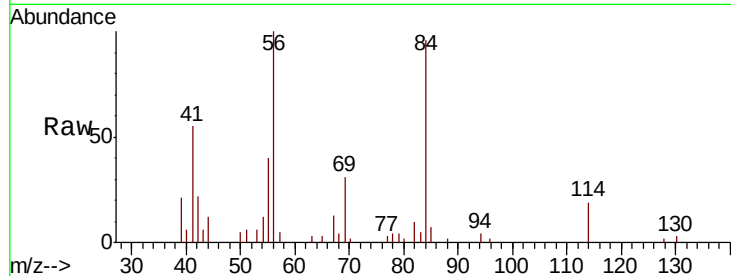
#30
Cyclohexane
Concen: 0.188 ppbv m
RT: 7.11 min Scan# 1344
Delta R.T. -0.03 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	86.4	129.6#
41	38.2	42.1	63.1#

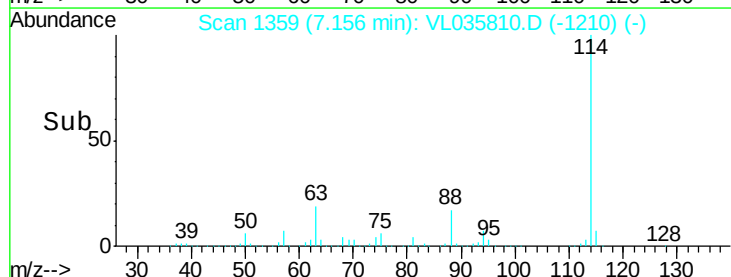
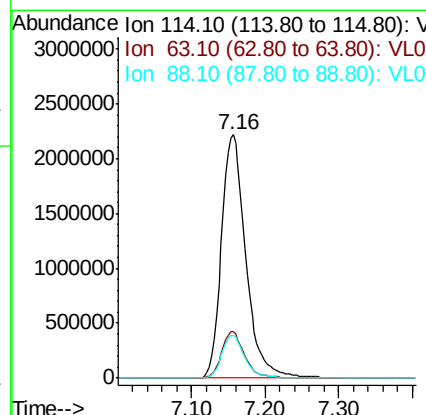
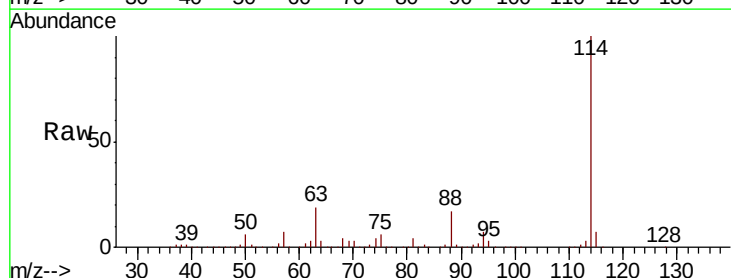
Manual Integrations
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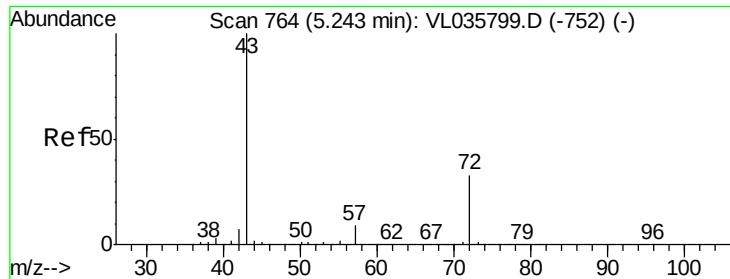
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.1	16.1	24.1
88	16.8	13.7	20.5





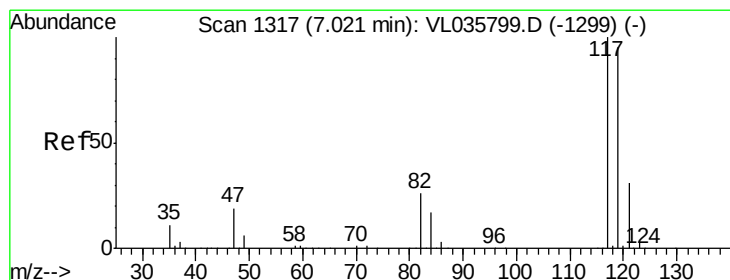
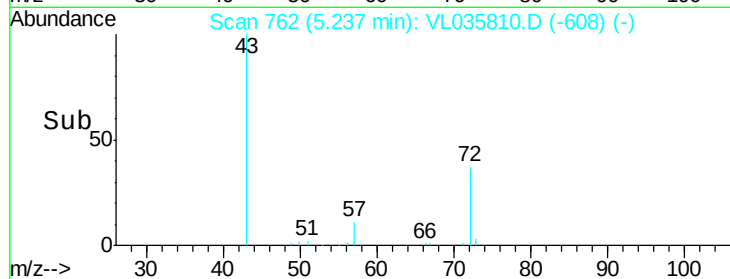
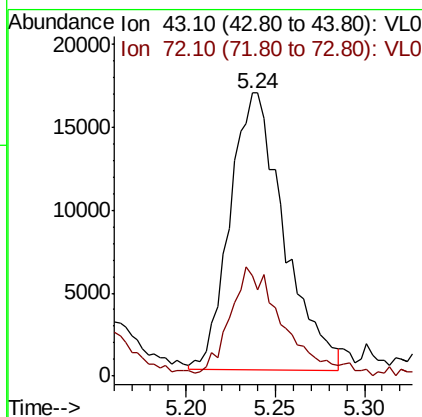
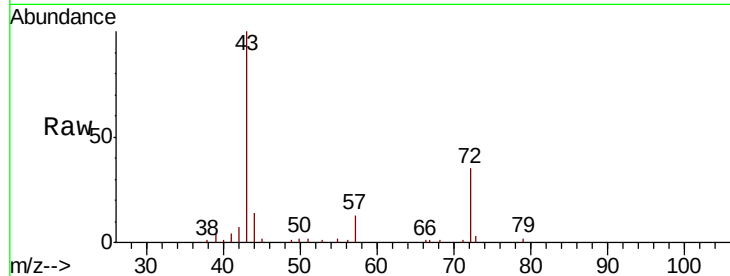
#34
2-Butanone
Concen: 0.214 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.01 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

Tot Ion: 43 Resp: 35363
Ion Ratio Lower Upper
43 100
72 40.6 26.5 39.7#

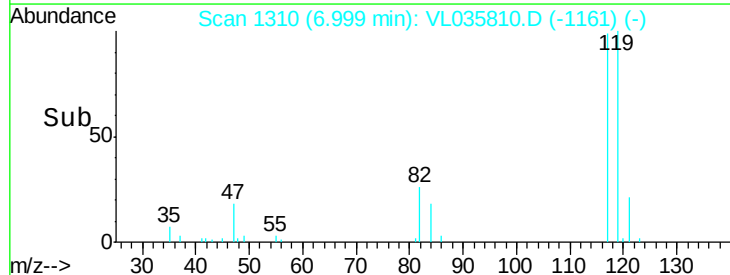
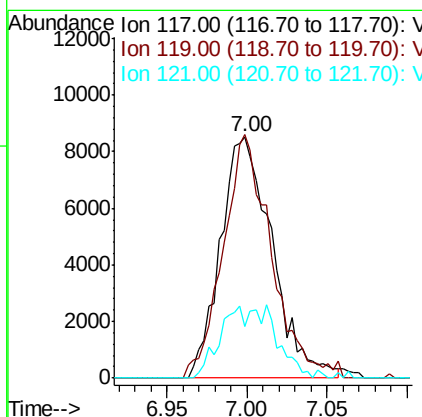
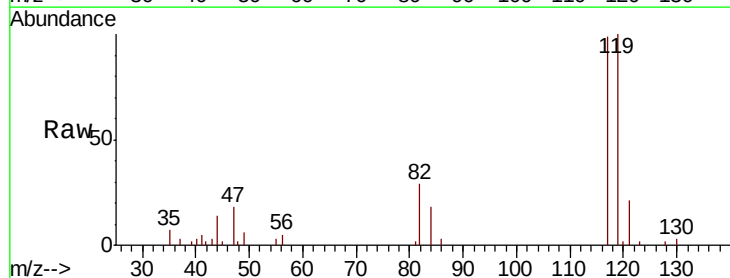
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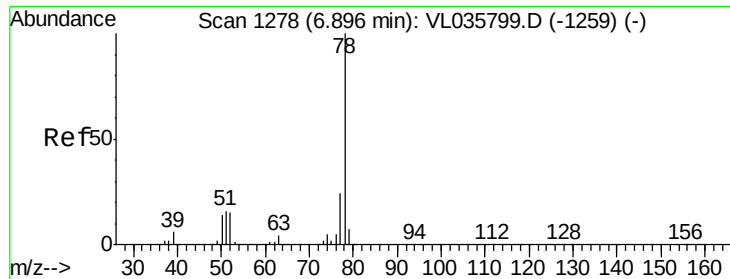
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#35
Carbon Tetrachloride
Concen: 0.069 ppbv
RT: 7.00 min Scan# 1310
Delta R.T. -0.02 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion: 117 Resp: 18810
Ion Ratio Lower Upper
117 100
119 95.1 75.6 113.4
121 21.5 25.1 37.7#





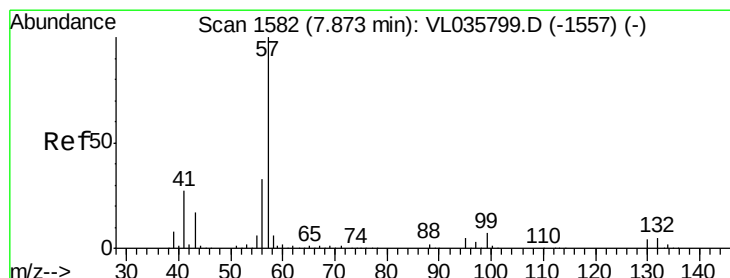
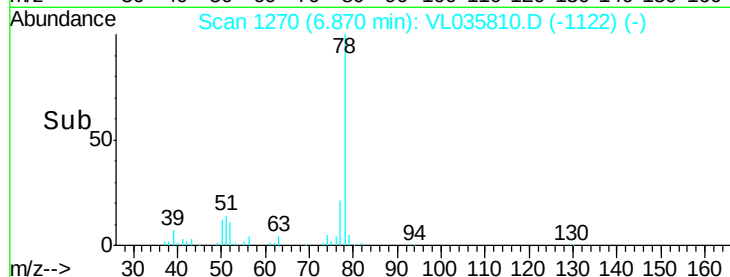
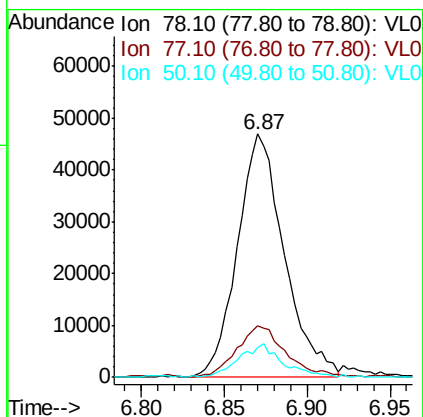
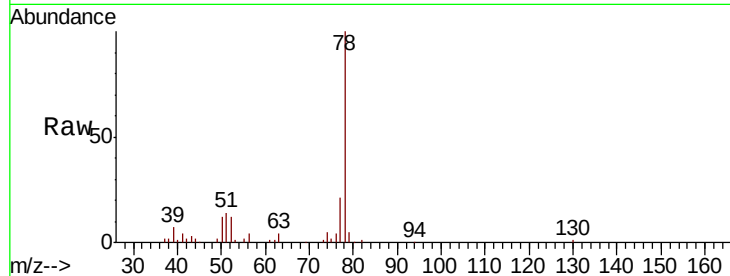
#36
Benzene
Concen: 0.241 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.03 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.3	19.3	28.9
50	12.6	11.4	17.2

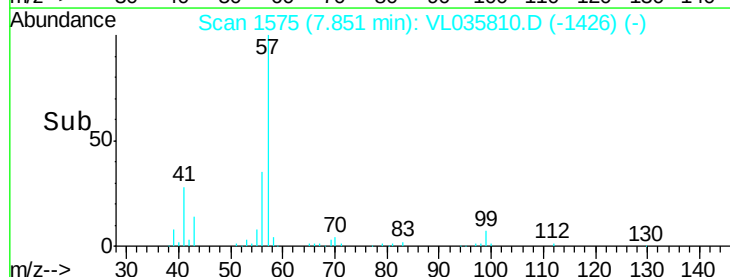
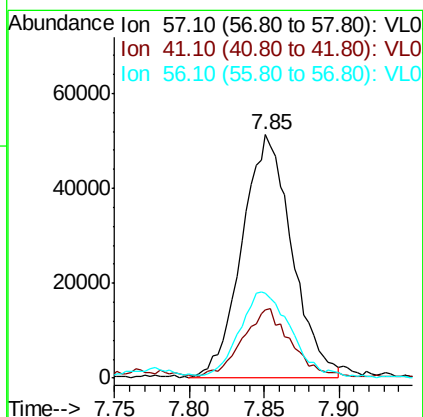
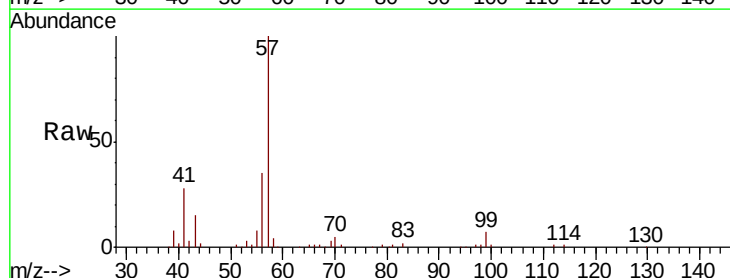
Manual Integrations
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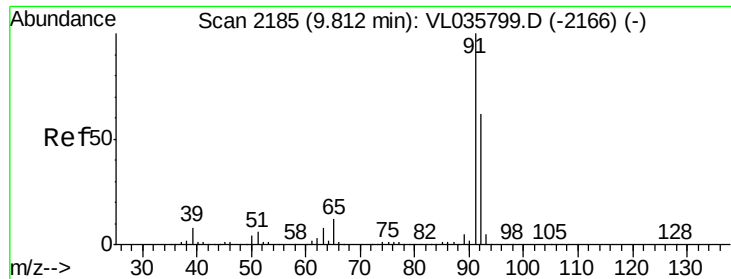
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#44
2,2,4-Trimethylpentane
Concen: 0.239 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. -0.02 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	29.2	21.0	31.4
56	37.8	25.4	38.0





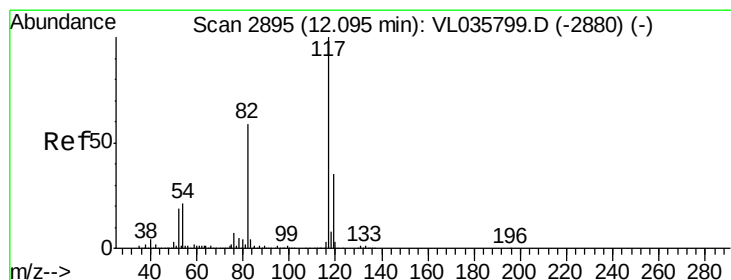
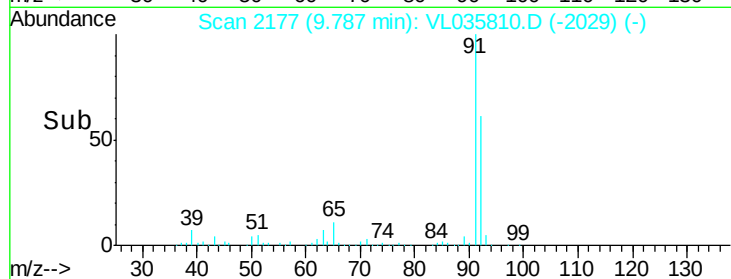
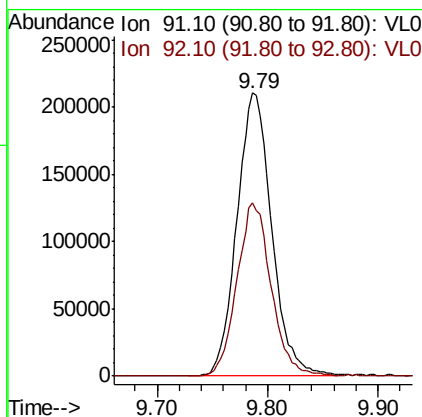
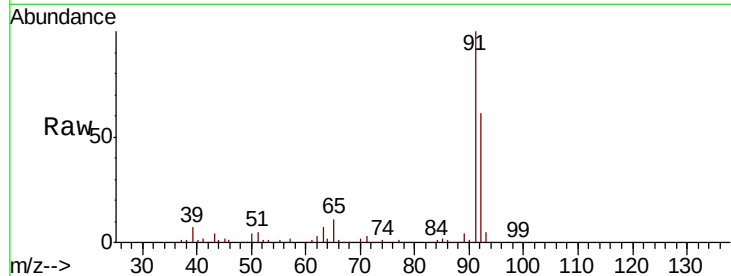
#53
Toluene
Concen: 1.009 ppbv
RT: 9.79 min Scan# 2177
Delta R.T. -0.03 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampleId :
QA1DUP

Tot Ion: 91 Resp: 461060
Ion Ratio Lower Upper
91 100
92 60.5 49.8 74.6

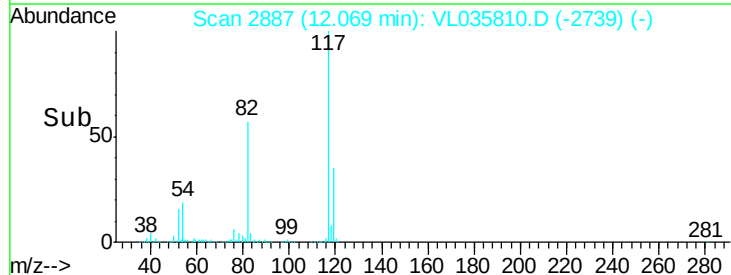
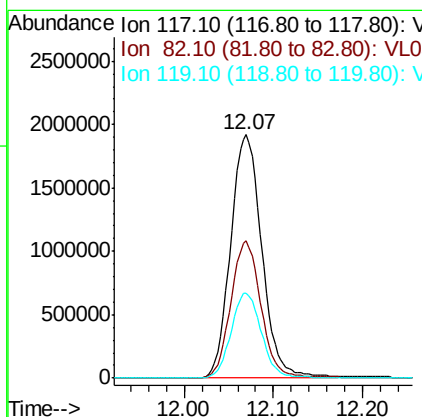
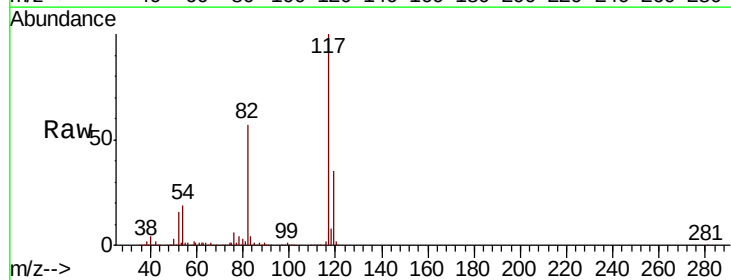
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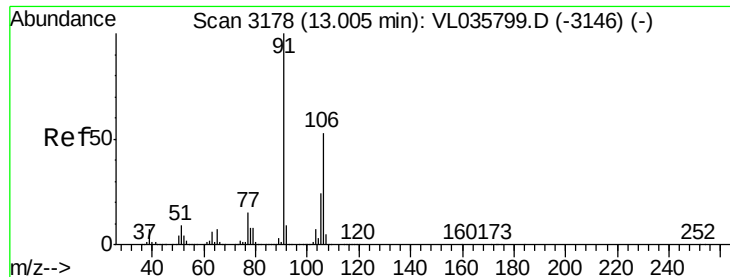
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. -0.03 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion: 117 Resp: 4656736
Ion Ratio Lower Upper
117 100
82 55.4 50.6 76.0
119 34.4 52.6 78.8#





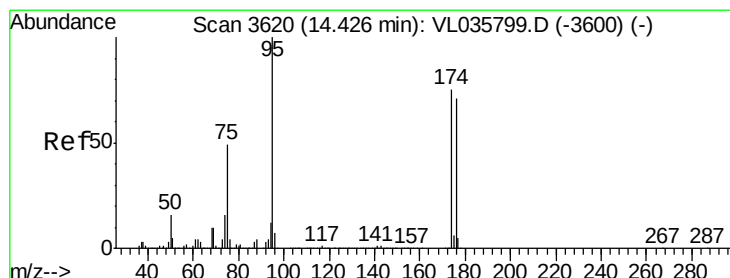
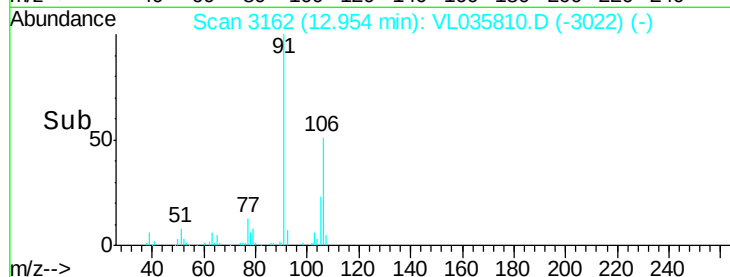
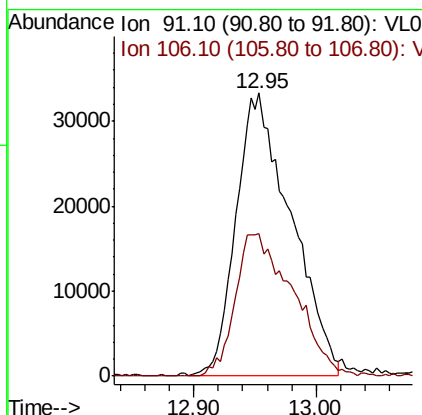
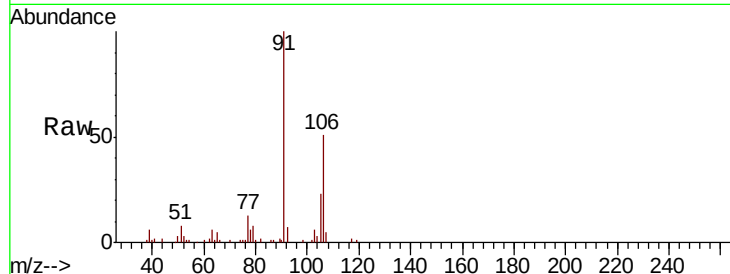
#59
m/p-Xylene
Concen: 0.217 ppbv
RT: 12.95 min Scan# 3162
Delta R.T. -0.05 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Instrument :
MSVOA_L
ClientSampled :
QA1DUP

Tot Ion	Ratio	Lower	Upper
91	100		
106	53.2	39.5	59.3

Manual Integrations
APPROVED

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11/5/2020 2:13:47 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.818 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. -0.03 min
Lab File: VL035810.D
Acq: 3 Nov 2020 19:23

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.9	59.8	89.6
175	5.3	4.3	6.5

