

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\
 Data File : VL034727.D
 Acq On : 28 Feb 2020 3:14
 Operator : SY/AP
 Sample : L1661-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4-STORAGE-ROOM-NEXT-TO-C

Manual Integrations
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 2/28/2020 12:33:44 PM

Quant Time: Feb 28 03:51:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1143921	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2374878	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2339932	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1926556	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.58	45	194283	11.918	ppbv	97
15) Acetone	3.84	43	166679	1.279	ppbv	94
17) tert-Butyl alcohol	4.29	59	33440m	0.335	ppbv	
19) Isopropyl Alcohol	3.96	45	297647	3.834	ppbv	100
20) Methylene Chloride	4.33	84	23130	0.477	ppbv #	82
26) Hexane	5.68	57	13131m	0.123	ppbv	
34) 2-Butanone	5.25	43	25937m	0.174	ppbv	
38) Trichloroethene	7.85	130	46392	0.587	ppbv	98
41) Tetrahydrofuran	6.07	42	12863m	0.163	ppbv	
53) Toluene	9.83	91	47576m	0.218	ppbv	
59) m/p-Xylene	13.01	91	26305m	0.107	ppbv	

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

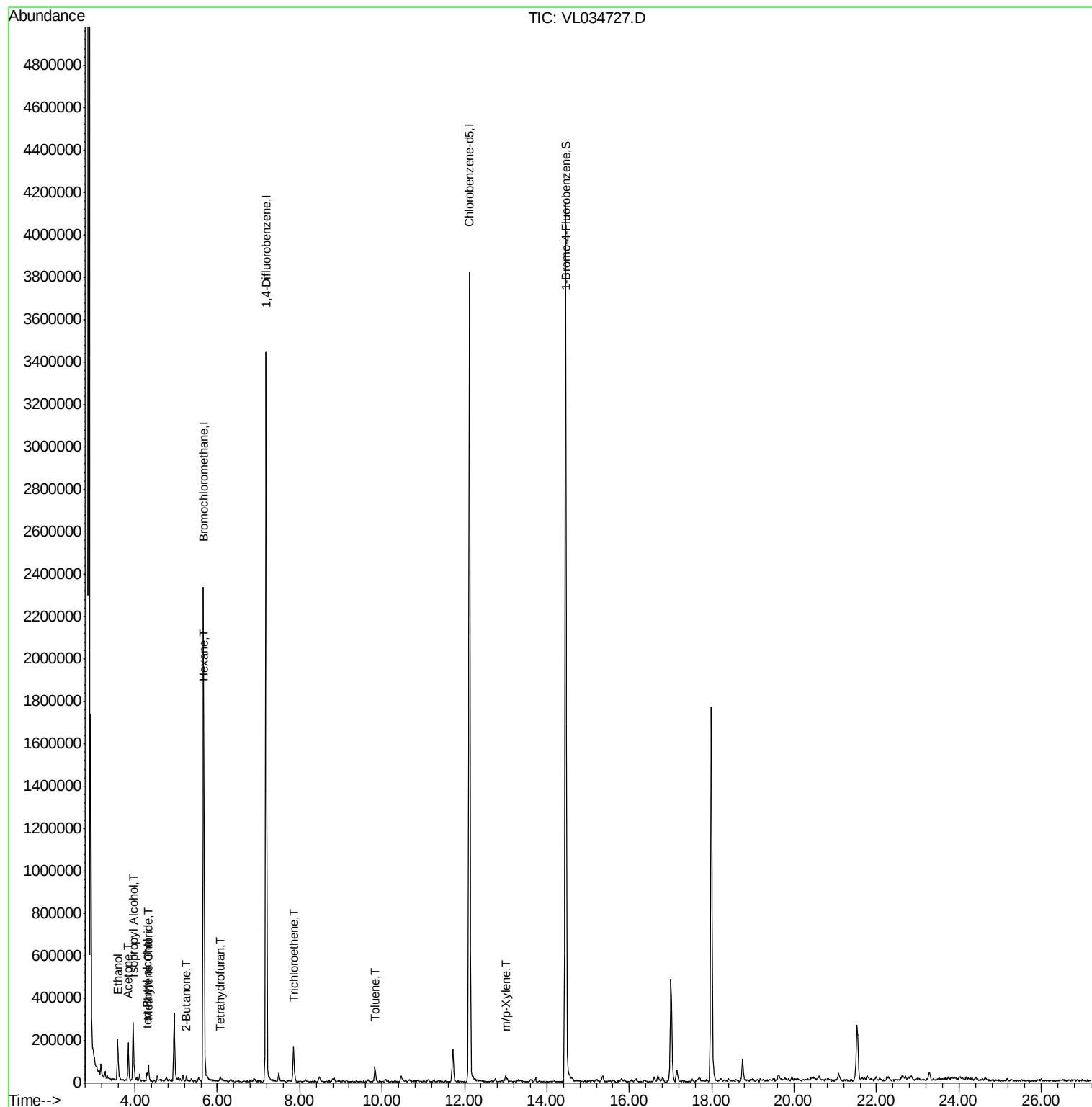
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022720\
Data File : VL034727.D
Acq On : 28 Feb 2020 3:14
Operator : SY/AP
Sample : L1661-04DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

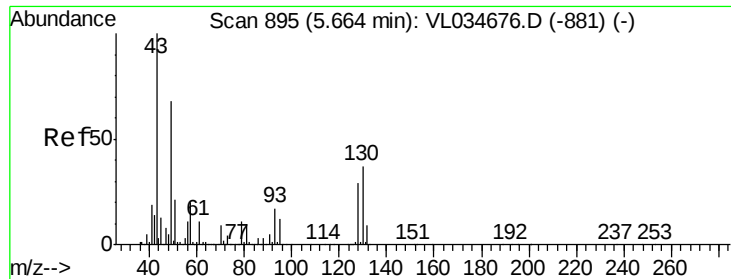
Instrument :
MSVOA_L
ClientSampleId :
SG-4-STORAGE-ROOM-NEXT-TO-C

Manual Integrations
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Quant Time: Feb 28 03:51:22 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb
QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration





#1

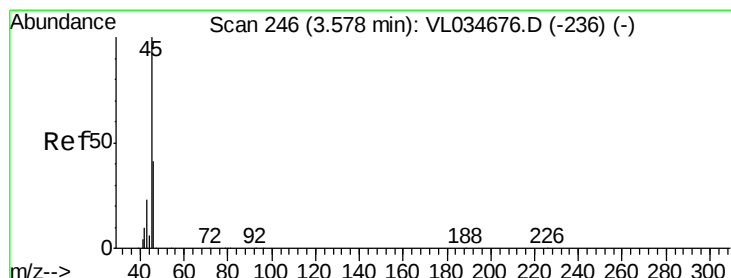
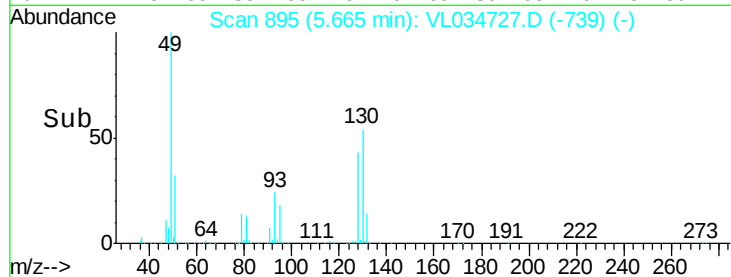
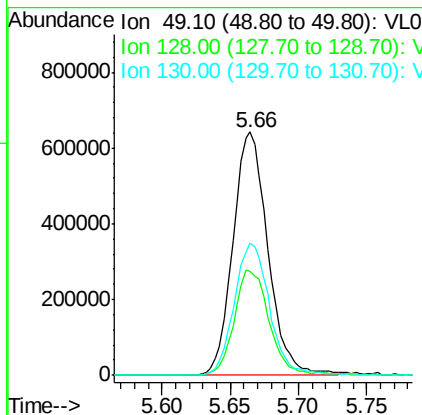
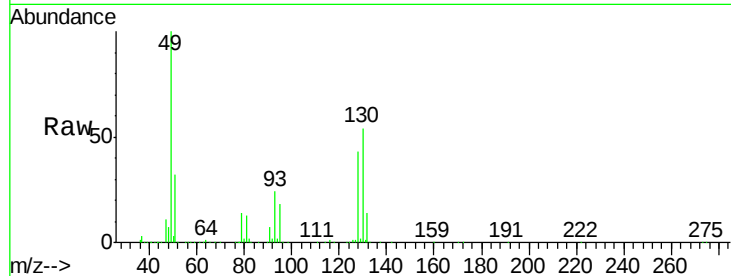
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VL034727.D
 Acq: 28 Feb 2020 3:14

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4-STORAGE-ROOM-NEXT-TO-C

Tot Ion: 49 Resp: 1143921
 Ion Ratio Lower Upper
 49 100
 128 43.7 21.6 65.0
 130 55.9 27.7 83.1

Manual Integrations
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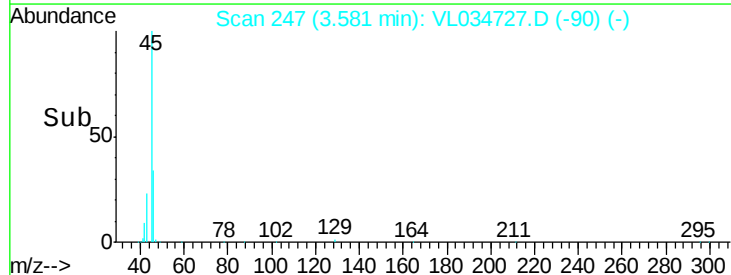
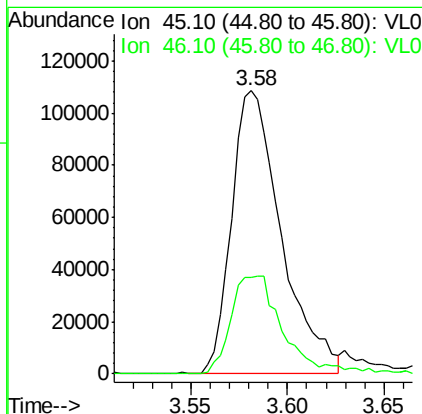
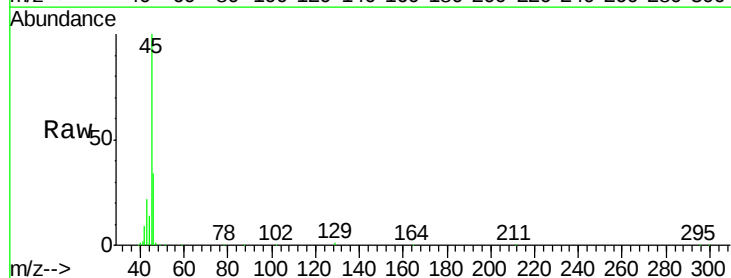
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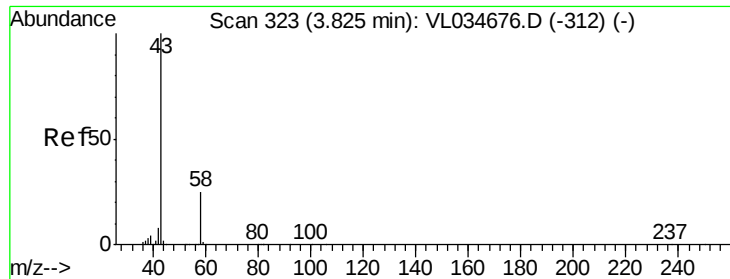


#13

Ethanol
 Concen: 11.918 ppbv
 RT: 3.58 min Scan# 247
 Delta R.T. 0.00 min
 Lab File: VL034727.D
 Acq: 28 Feb 2020 3:14

Tgt Ion: 45 Resp: 194283
 Ion Ratio Lower Upper
 45 100
 46 36.6 15.4 61.4





#15

Acetone

Concen: 1.279 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.01 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Instrument :

MSVOA_L

ClientSampleId :

SG-4-STORAGE-ROOM-NEXT-TO-C

Tot Ion: 43 Resp: 166679

Ion Ratio Lower Upper

43 100

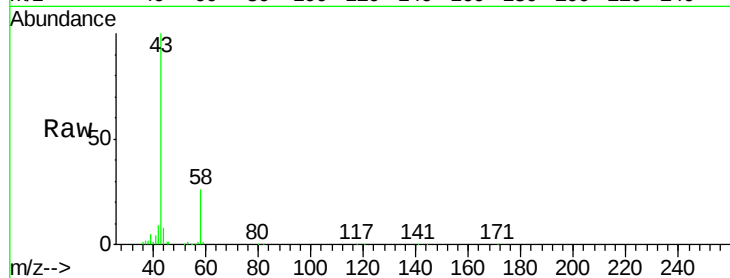
58 29.5 21.4 32.0

Manual Integrations

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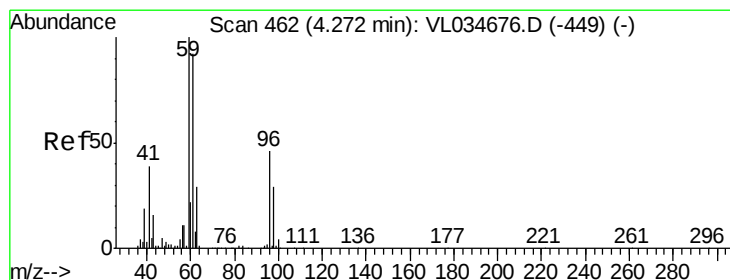
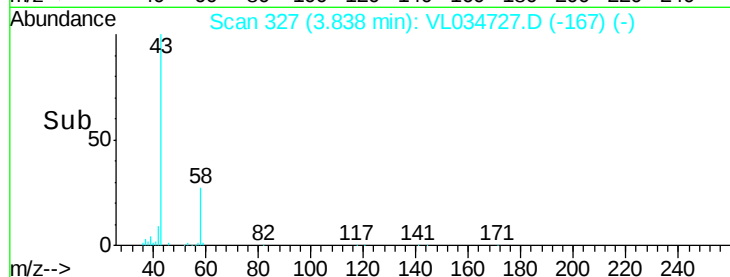
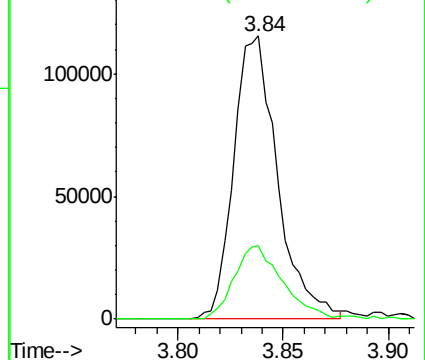
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.335 ppbv m

RT: 4.29 min Scan# 467

Delta R.T. 0.02 min

Lab File: VL034727.D

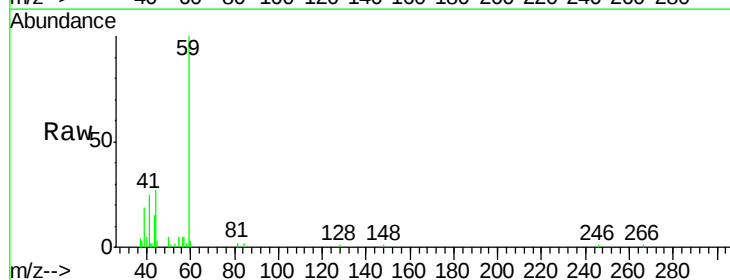
Acq: 28 Feb 2020 3:14

Tgt Ion: 59 Resp: 33440

Ion Ratio Lower Upper

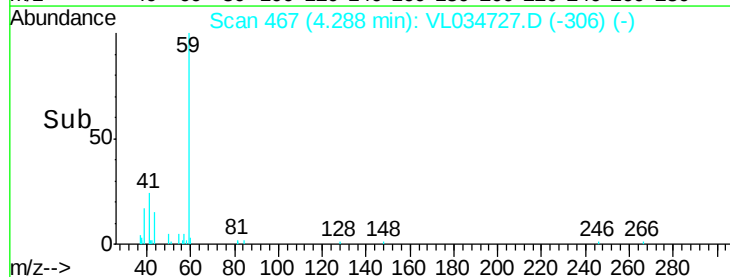
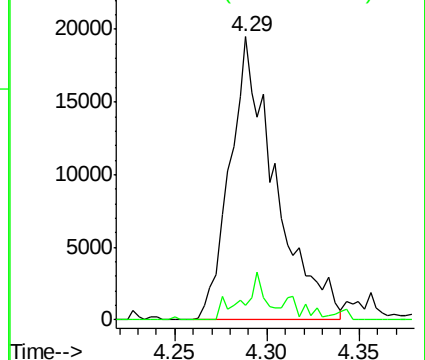
59 100

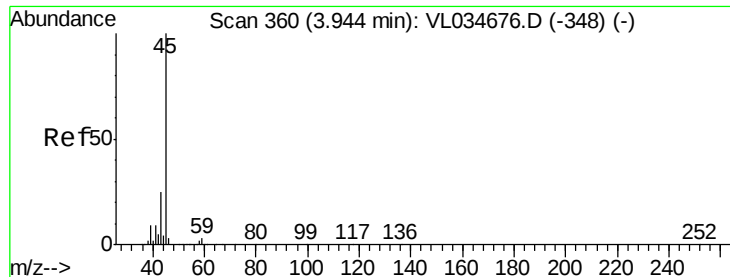
57 0.0 8.8 13.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

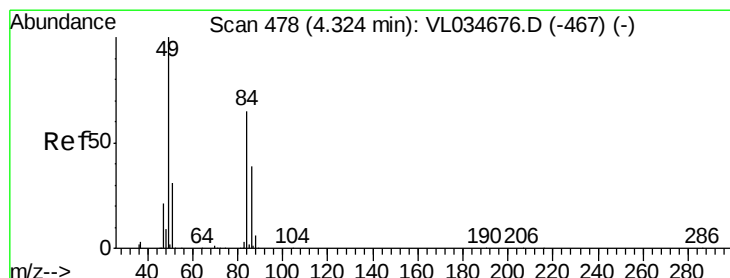
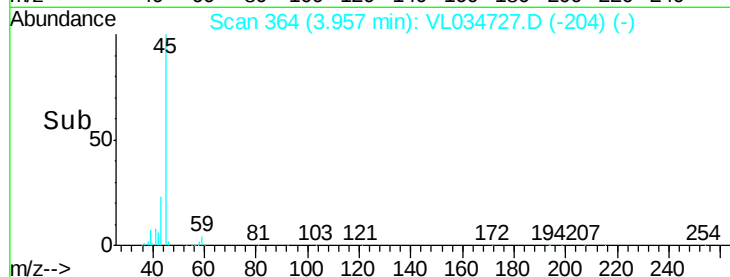
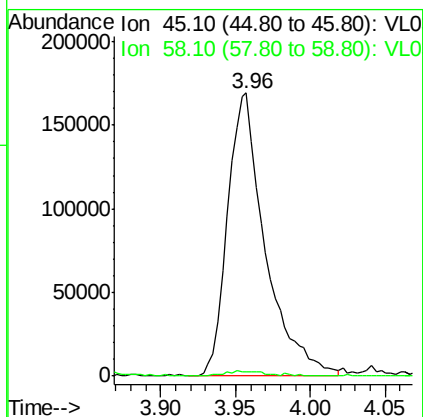
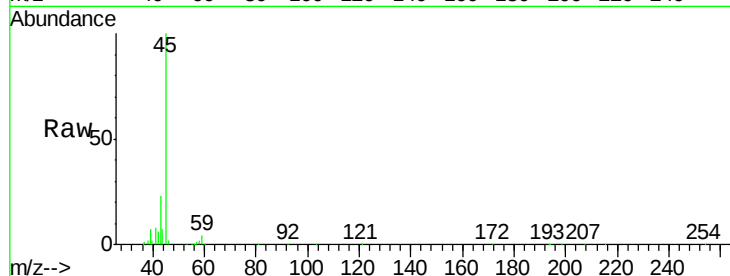
Isopropyl Alcohol
 Concen: 3.834 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VL034727.D
 Acq: 28 Feb 2020 3:14

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4-STORAGE-ROOM-NEXT-TO-C

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.2	1.8	2.6

Manual Integrations
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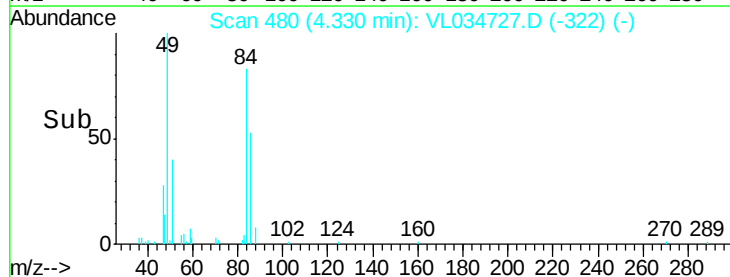
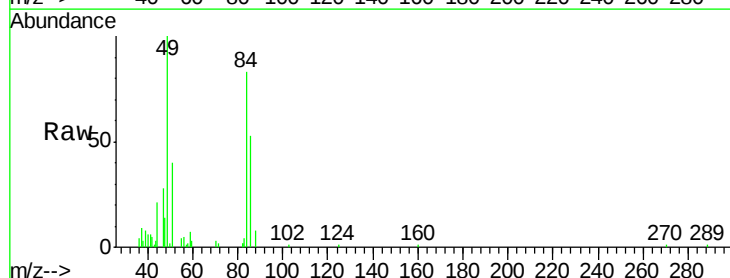
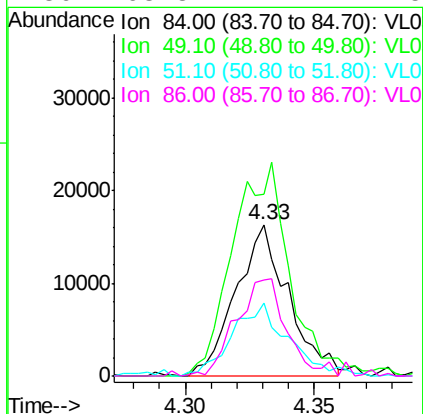
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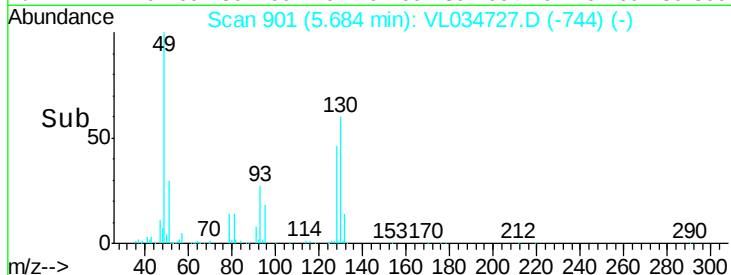
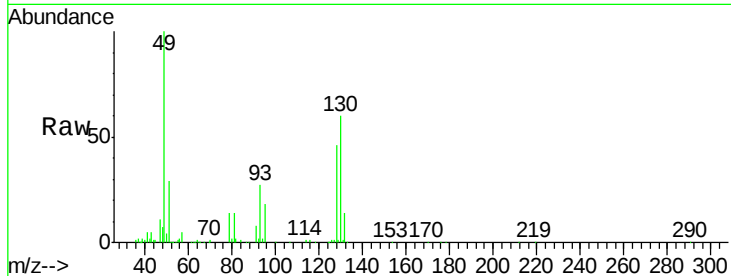
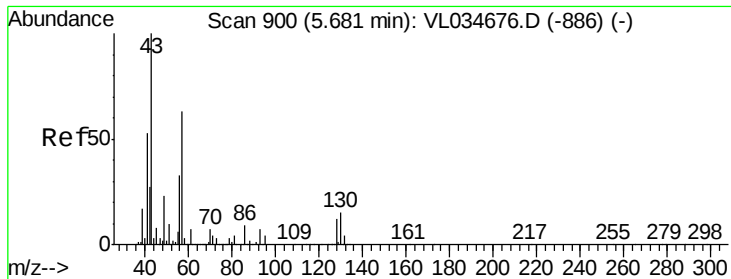


#20

Methylene Chloride
 Concen: 0.477 ppbv
 RT: 4.33 min Scan# 480
 Delta R.T. 0.01 min
 Lab File: VL034727.D
 Acq: 28 Feb 2020 3:14

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.7	122.8	184.2#
51	45.3	38.6	58.0
86	63.8	47.7	71.5





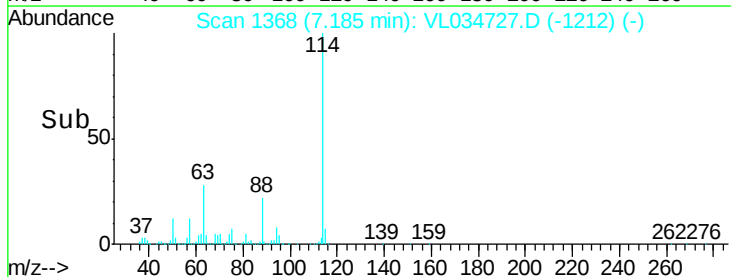
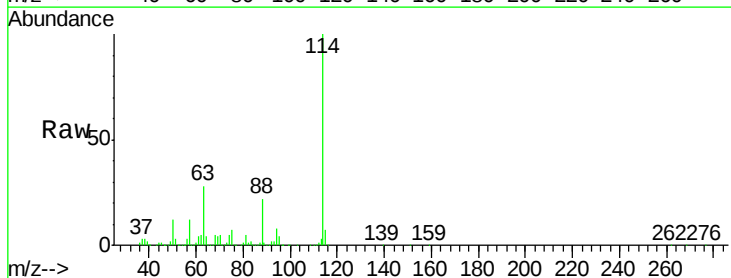
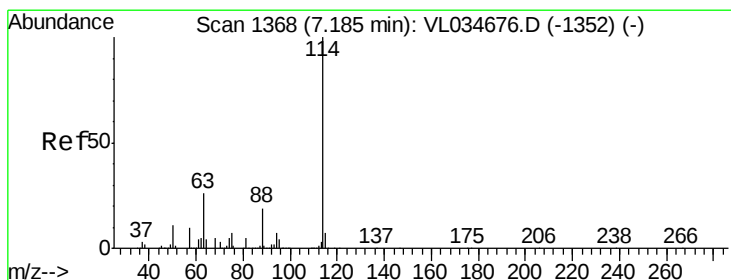
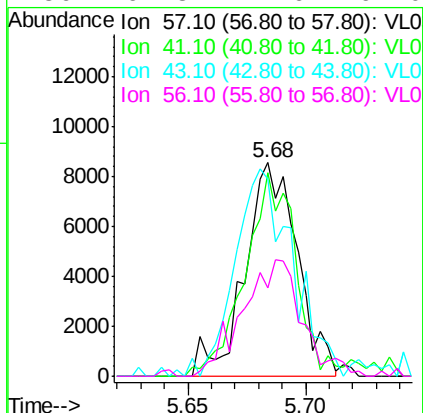
#26
Hexane
Concen: 0.123 ppbv m
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Tot Ion	57	Resp	13131
Ion	Ratio	Lower	Upper
57	100		
41	97.2	70.3	105.5
43	113.3	177.0	265.4#
56	62.8	42.6	64.0

Instrument :
MSVOA_L
ClientSampleId :
SG-4-STORAGE-ROOM-NEXT-TO-C

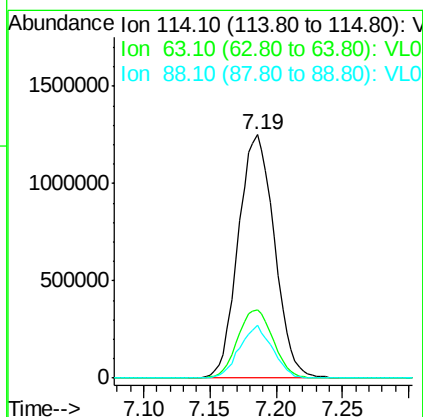
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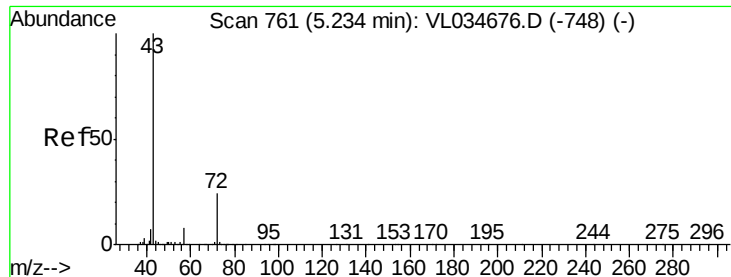
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Tgt Ion	114	Resp	2374878
Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.9	34.3
88	19.9	15.8	23.6





#34

2-Butanone

Concen: 0.174 ppbv m

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Instrument :

MSVOA_L

ClientSampleId :

SG-4-STORAGE-ROOM-NEXT-TO-C

Tot Ion: 43 Resp: 25937

Ion Ratio Lower Upper

43 100

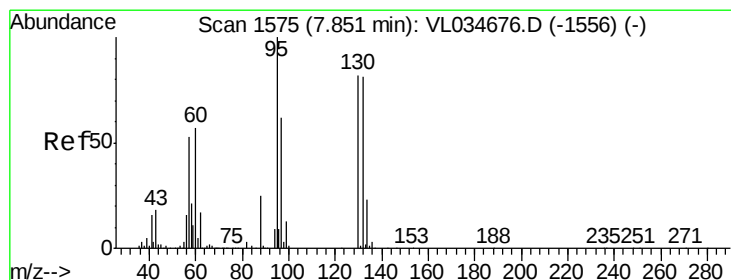
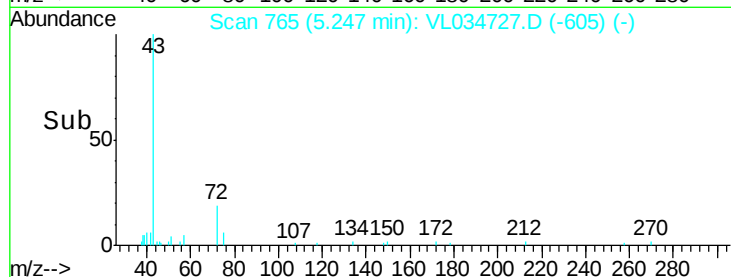
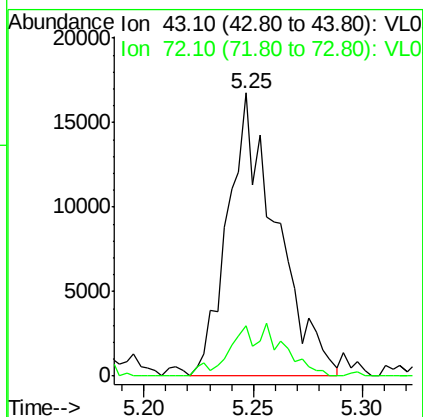
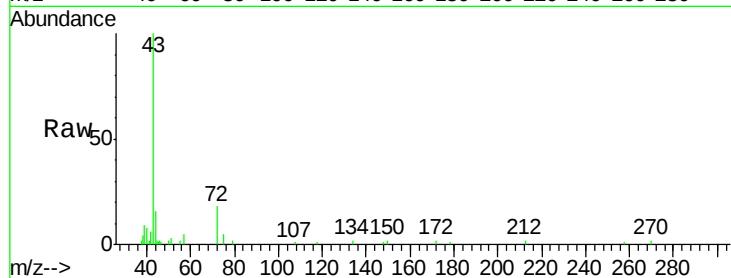
72 19.5 18.2 27.2

Manual Integrations

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#38

Trichloroethene

Concen: 0.587 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Tgt Ion: 130 Resp: 46392

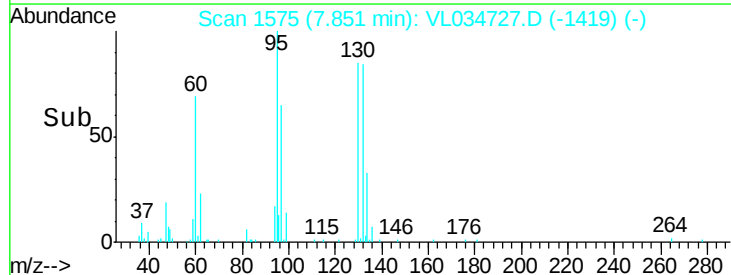
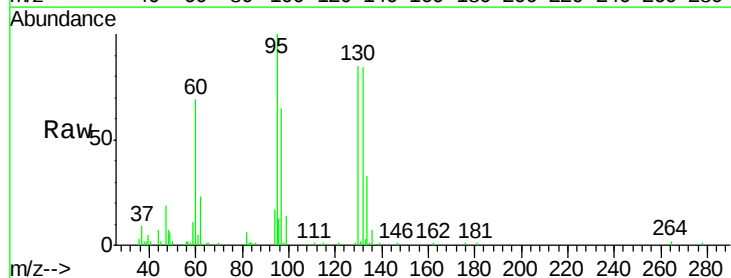
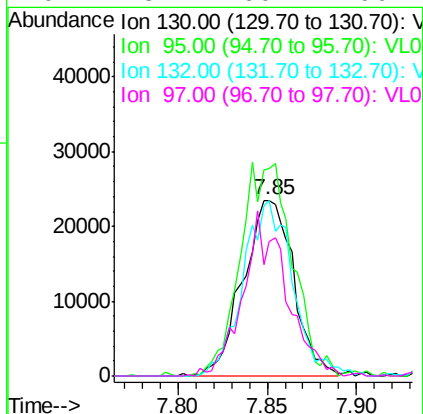
Ion Ratio Lower Upper

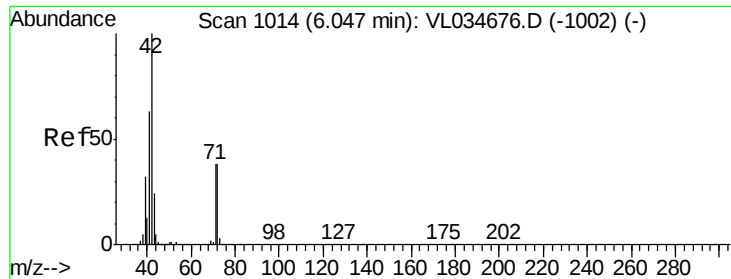
130 100

95 118.0 97.1 145.7

132 99.6 78.3 117.5

97 75.7 60.1 90.1





#41

Tetrahydrofuran

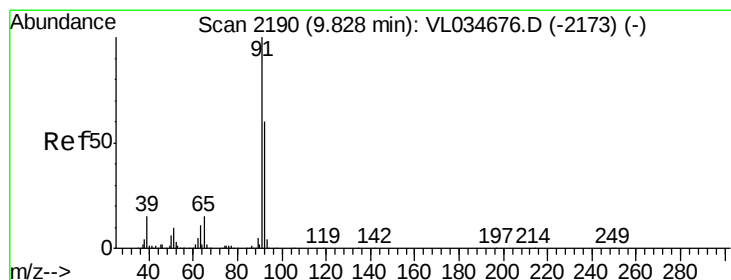
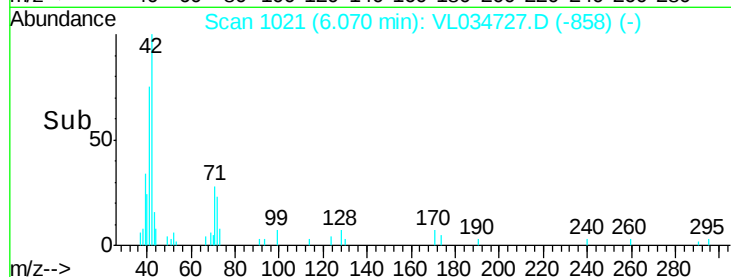
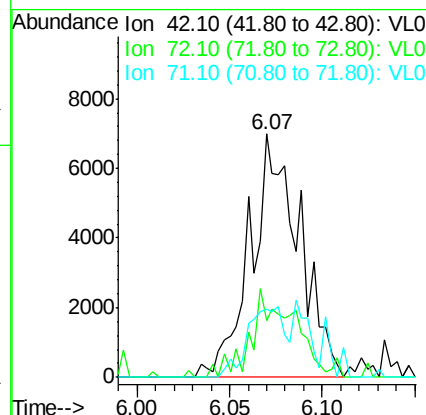
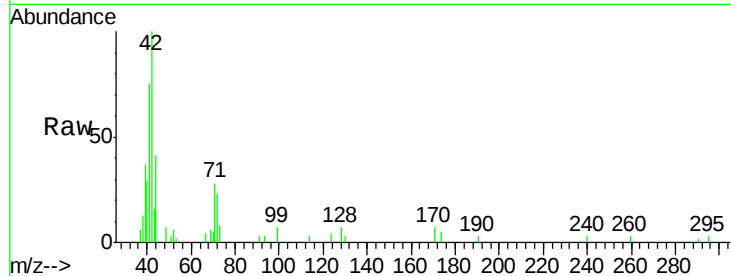
Concen: 0.163 ppbv m
RT: 6.07 min Scan# 1021
Delta R.T. 0.02 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Instrument :
MSVOA_L
ClientSampleId :
SG-4-STORAGE-ROOM-NEXT-TO-C

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.7	47.5#
71	0.0	30.7	46.1#

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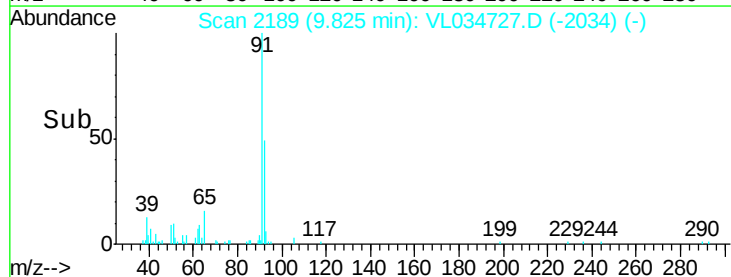
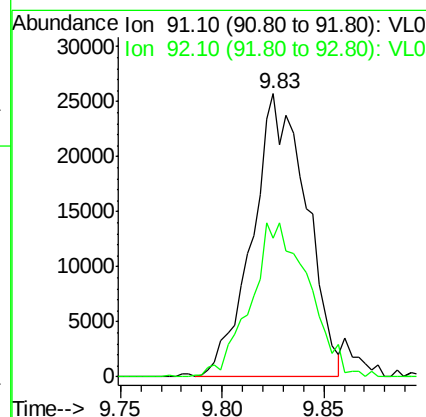
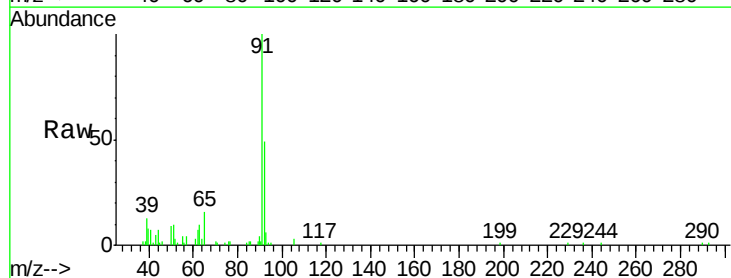


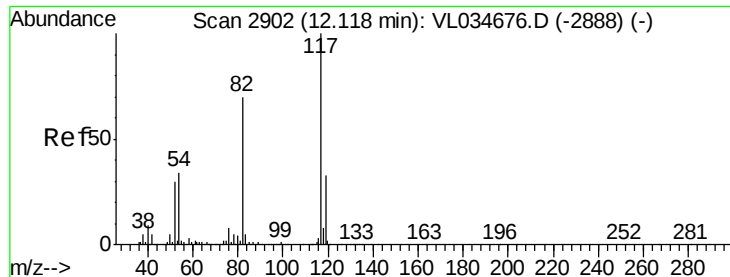
#53

Toluene

Concen: 0.218 ppbv m
RT: 9.83 min Scan# 2189
Delta R.T. -0.00 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.5	72.7#





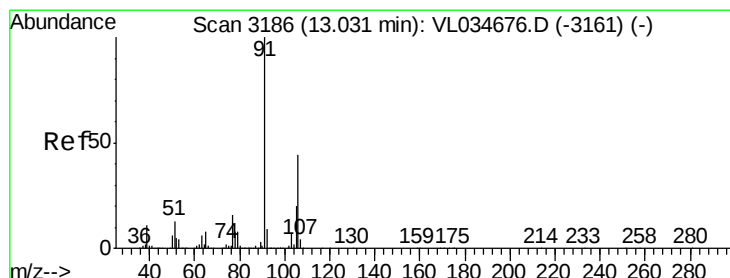
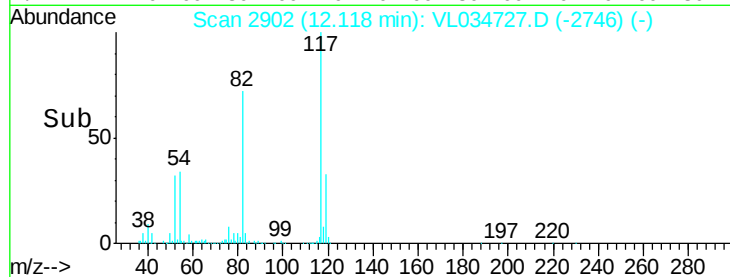
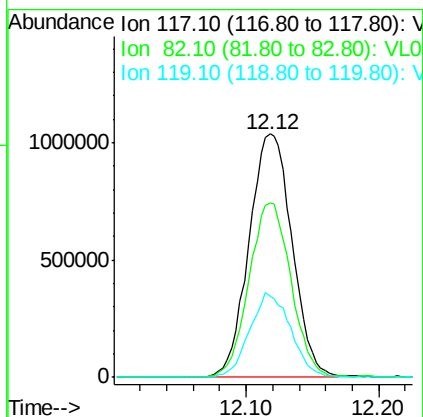
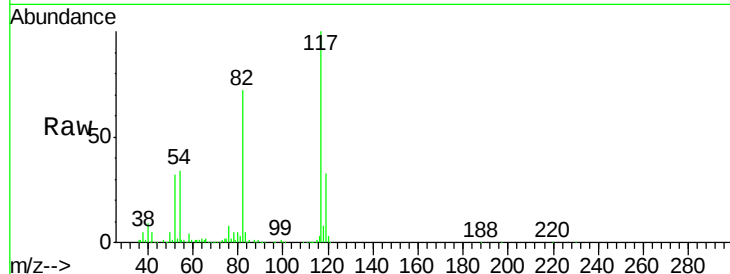
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.00 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Instrument :
MSVOA_L
ClientSampleId :
SG-4-STORAGE-ROOM-NEXT-TO-C

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.8	54.1	81.1
119	33.3	27.6	41.4

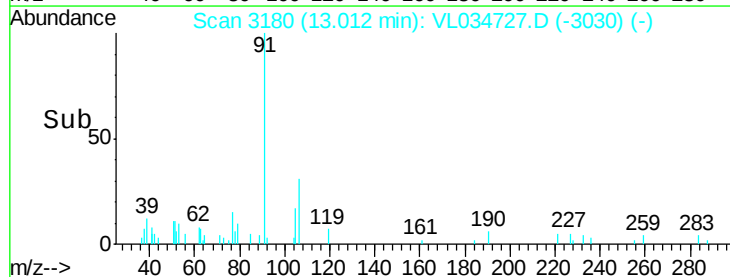
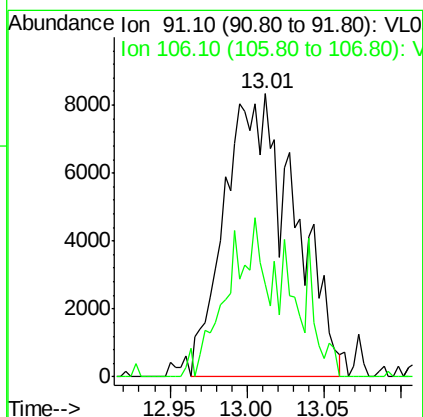
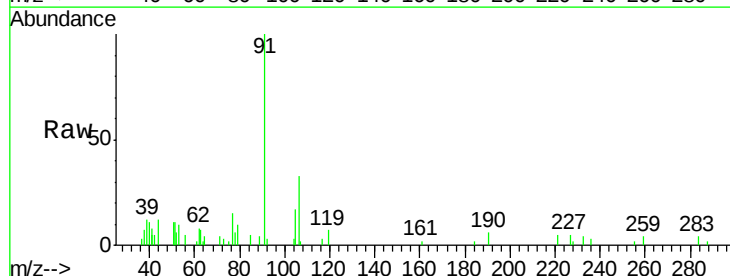
Manual Integrations
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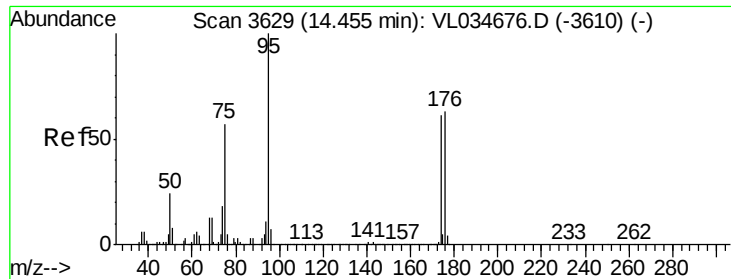
MMDadoda
2/28/2020 12:33:44 PM



#59
m/p-Xylene
Concen: 0.107 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. -0.02 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.6	53.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.041 ppbv
 RT: 14.46 min Scan# 3629
 Delta R.T. 0.00 min
 Lab File: VL034727.D
 Acq: 28 Feb 2020 3:14

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4-STORAGE-ROOM-NEXT-TO-C

Tot Ion: 95 Resp: 1926556
 Ion Ratio Lower Upper
 95 100
 174 64.8 50.7 76.1
 175 5.0 3.9 5.9

Manual Integrations
 APPROVED

MMDadoda
 2/28/2020 12:33:44 PM

