

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034890.D
 Acq On : 16 Mar 2020 14:41
 Operator : SY/AP
 Sample : L1924-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-03

Manual Integrations
 APPROVED

MMDadoda
 3/17/2020 12:15:48 PM

Quant Time: Mar 17 10:25:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	942997	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2041472	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1972910	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1625751	10.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	27975	0.217 ppbv	97
3) Chlorodifluoromethane	2.94	51	34833m	0.331 ppbv	
4) Chloromethane	3.10	50	32126	0.540 ppbv	98
9) Propene	2.98	41	86568m	1.721 ppbv	
10) Heptane	8.12	43	15416m	0.125 ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.45	101	9819m	0.102 ppbv	
13) Ethanol	3.57	45	685983	44.864 ppbv	95
15) Acetone	3.81	43	866561	7.090 ppbv	96
19) Isopropyl Alcohol	3.94	45	197287	2.556 ppbv #	44
20) Methylene Chloride	4.31	84	211187	5.465 ppbv	99
26) Hexane	5.67	57	211472	2.255 ppbv #	55
34) 2-Butanone	5.23	43	47721	0.352 ppbv	97
35) Carbon Tetrachloride	7.01	117	8132m	0.064 ppbv	
36) Benzene	6.88	78	74718	0.411 ppbv	93
38) Trichloroethene	7.83	130	6254m	0.090 ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	71146m	0.231 ppbv	
52) Tetrachloroethene	11.23	164	4694m	0.065 ppbv	
53) Toluene	9.81	91	384631	1.830 ppbv	100
59) m/p-Xylene	12.99	91	42713m	0.191 ppbv	

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

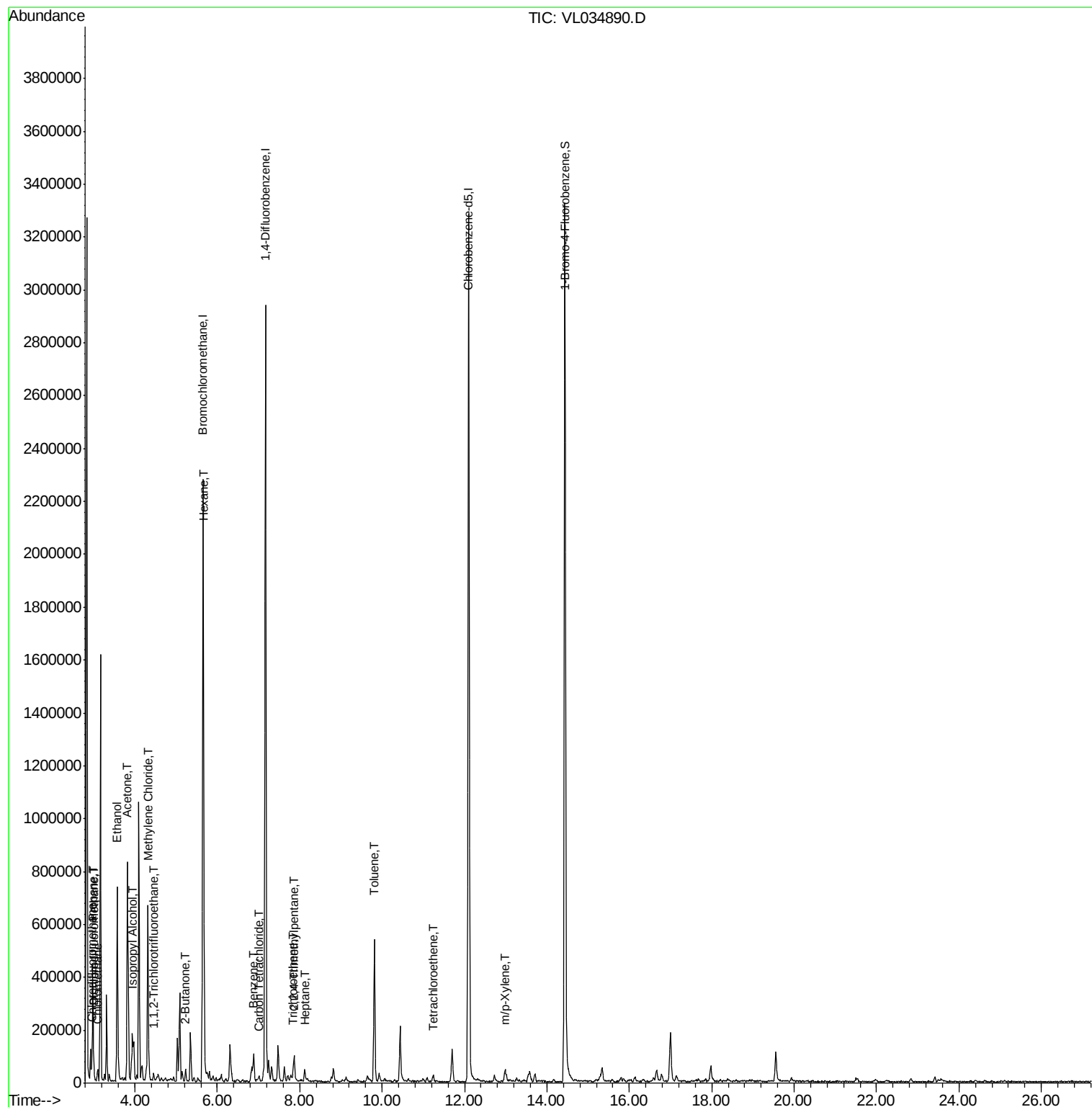
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031620\
Data File : VL034890.D
Acq On : 16 Mar 2020 14:41
Operator : SY/AP
Sample : L1924-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

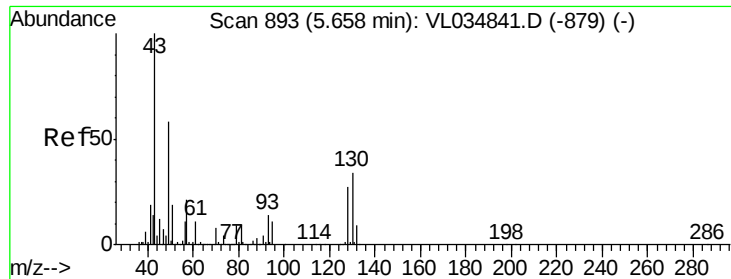
Instrument :
MSVOA_L
ClientSampleId :
IA-03

Manual Integrations
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3/17/2020 12:15:48 PM

Quant Time: Mar 17 10:25:42 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL034890.D

Acq: 16 Mar 2020 14:41

Instrument :

MSVOA_L

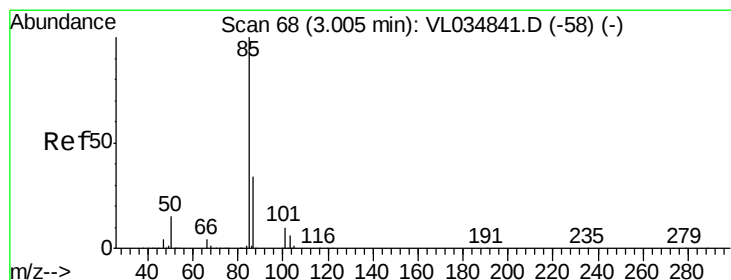
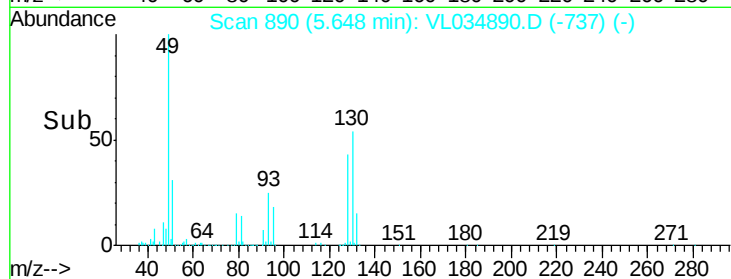
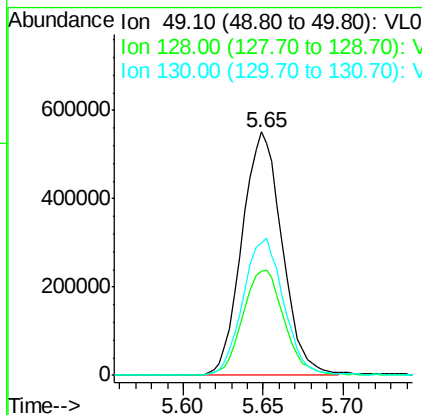
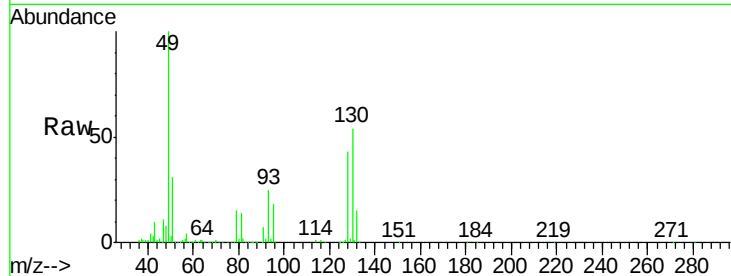
ClientSampled :

IA-03

Tot Ion	Ratio	Lower	Upper
49	100		
128	44.8	23.4	70.3
130	57.7	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 0.217 ppbv

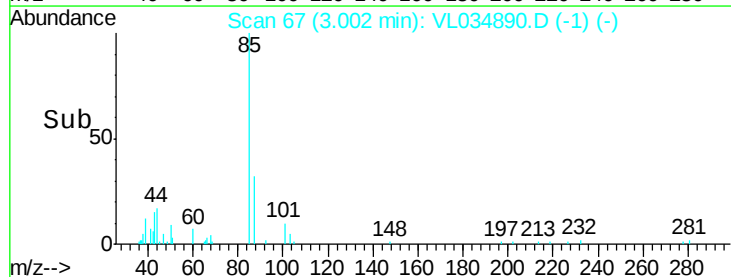
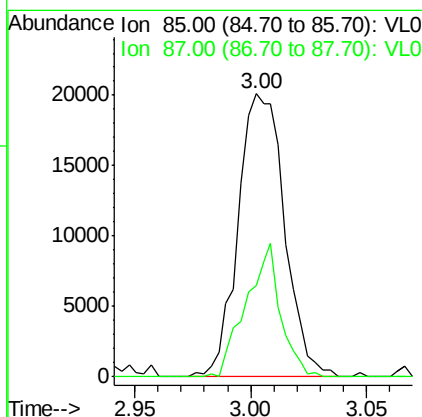
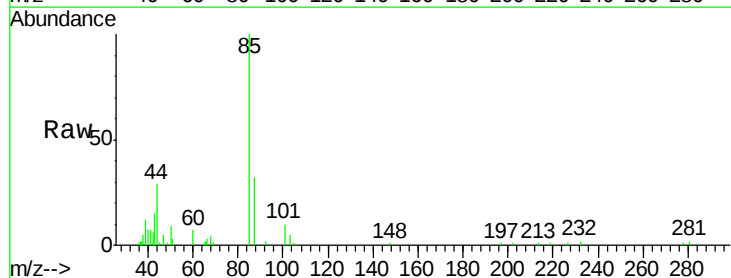
RT: 3.00 min Scan# 67

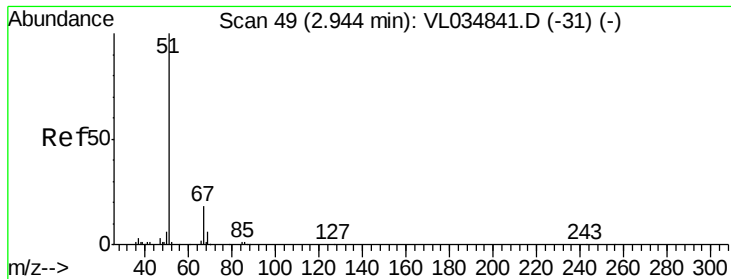
Delta R.T. -0.00 min

Lab File: VL034890.D

Acq: 16 Mar 2020 14:41

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.331 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL034890.D

Acq: 16 Mar 2020 14:41

Instrument :

MSVOA_L

ClientSampleId :

IA-03

Tot Ion: 51 Resp: 34833

Ion Ratio Lower Upper

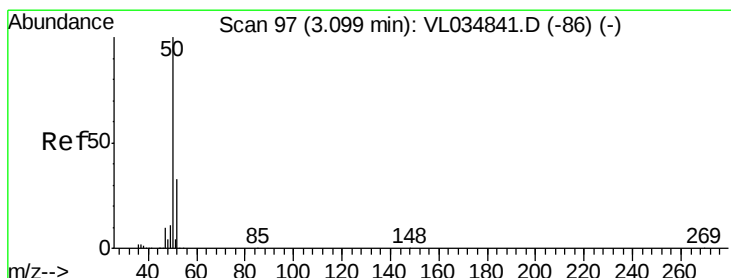
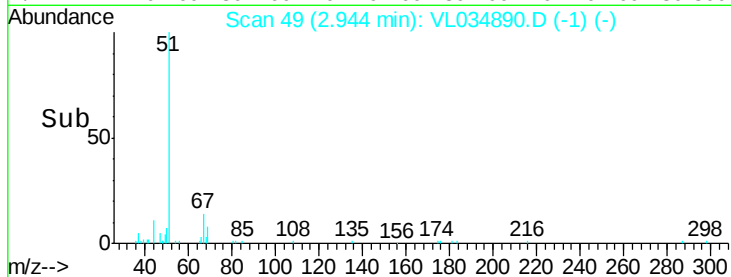
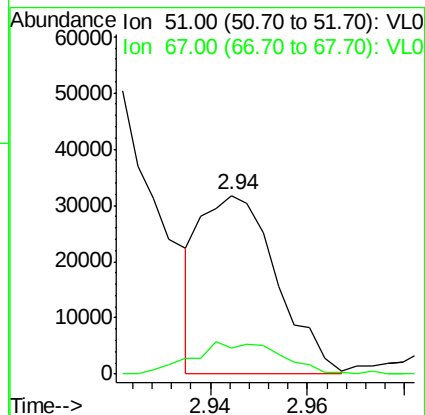
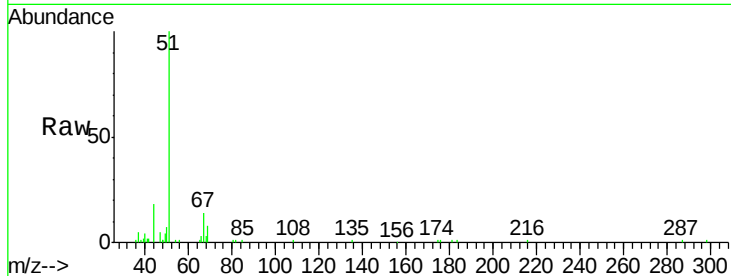
51 100

67 20.7 14.3 21.5

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#4

Chloromethane

Concen: 0.540 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034890.D

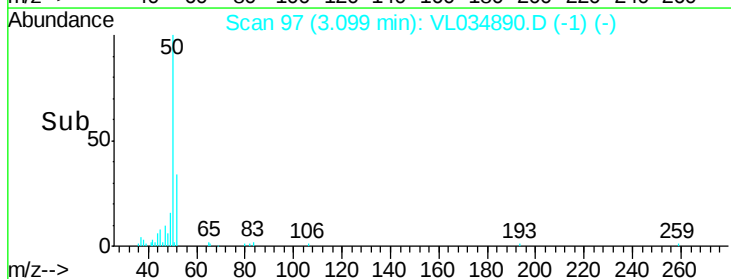
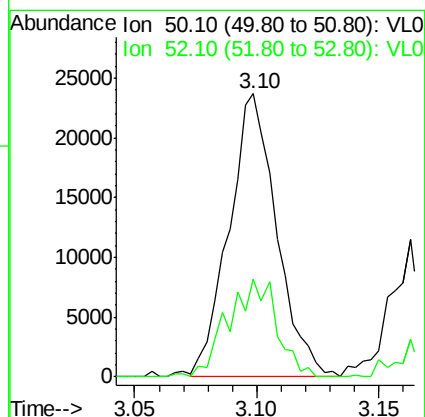
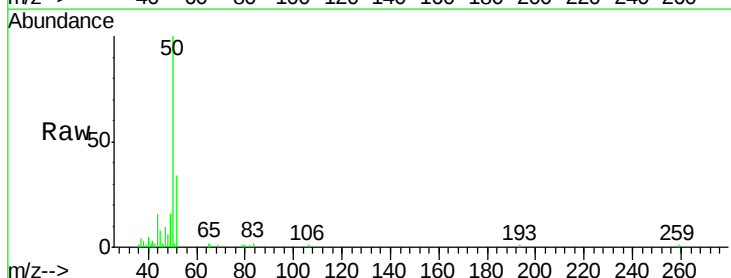
Acq: 16 Mar 2020 14:41

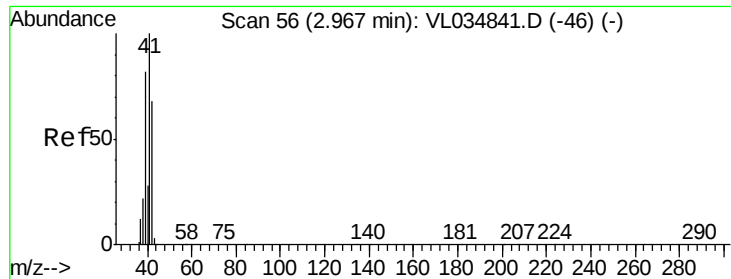
Tgt Ion: 50 Resp: 32126

Ion Ratio Lower Upper

50 100

52 34.4 26.8 40.2





#9

Propene

Concen: 1.721 ppbv m

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034890.D

Acq: 16 Mar 2020 14:41

Instrument :

MSVOA_L

ClientSampled :

IA-03

Tot Ion: 41 Resp: 86568

Ion Ratio Lower Upper

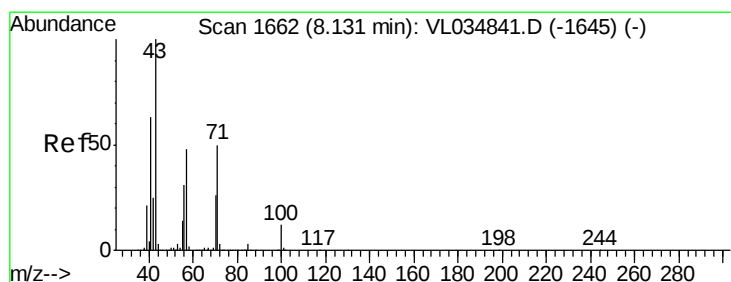
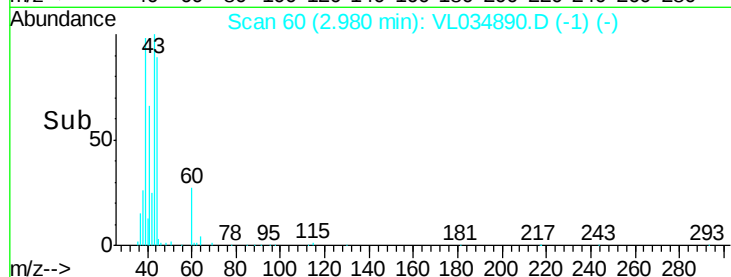
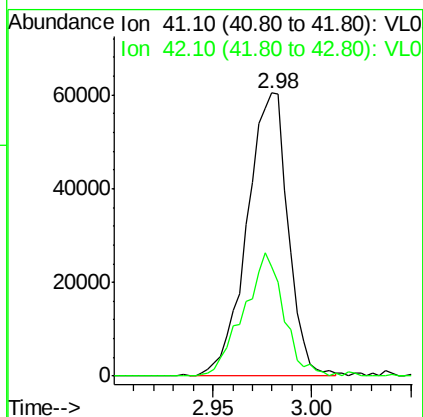
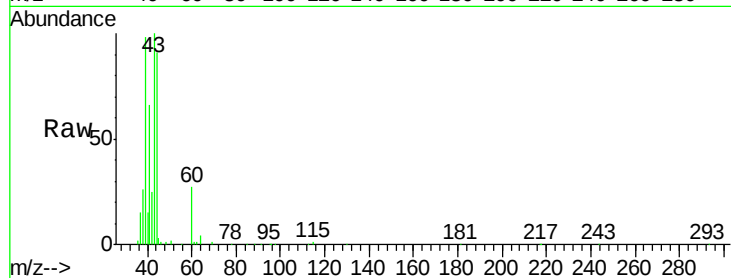
41 100

42 319.9 55.2 82.8#

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#10

Heptane

Concen: 0.125 ppbv m

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL034890.D

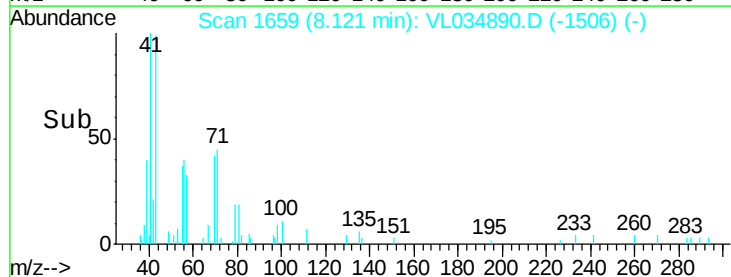
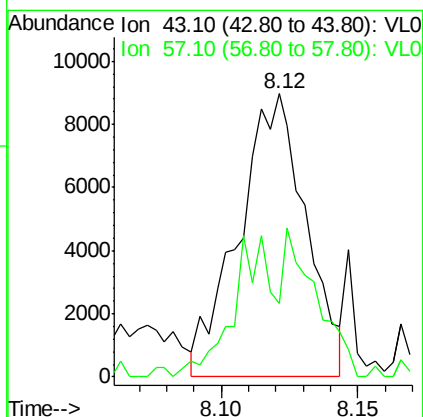
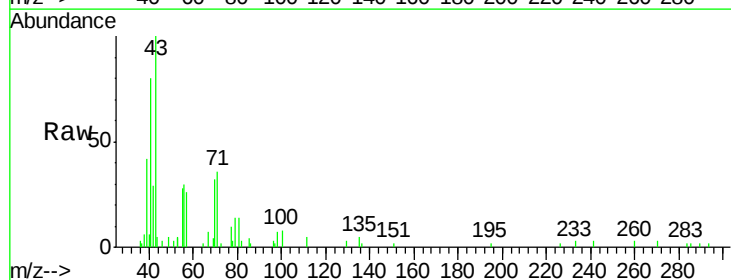
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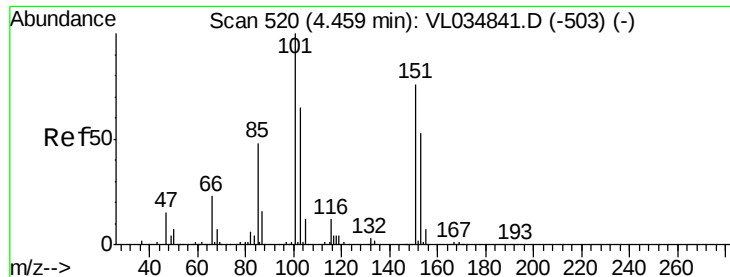
Tgt Ion: 43 Resp: 15416

Ion Ratio Lower Upper

43 100

57 57.8 39.7 59.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.102 ppbv m

RT: 4.45 min Scan# 517

Delta R.T. -0.01 min

Lab File: VL034890.D

Acq: 16 Mar 2020 14:41

Instrument :

MSVOA_L

ClientSampled :

IA-03

Tot Ion:101 Resp: 9819

Ion Ratio Lower Upper

101 100

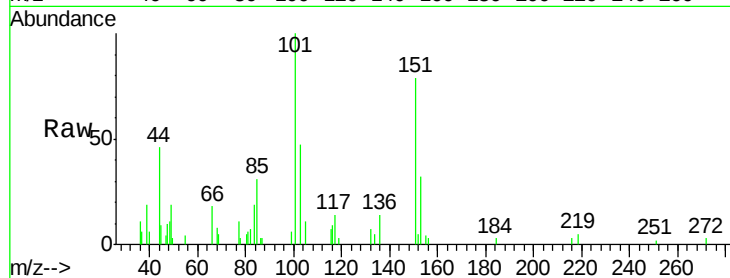
151 75.0 60.8 91.2

Manual Integrations

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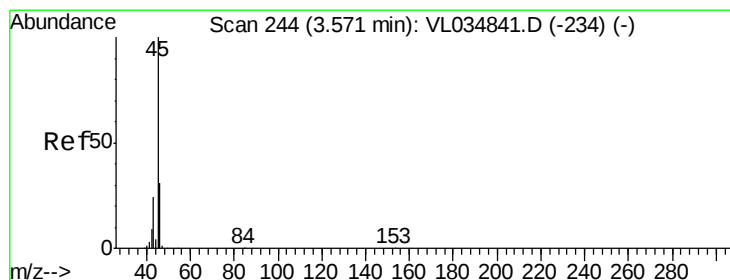
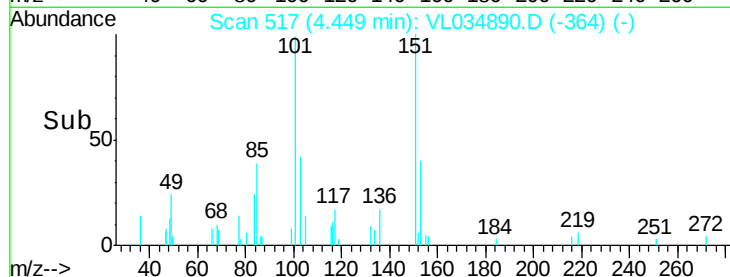
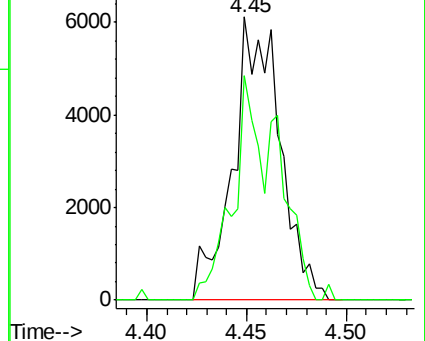
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 44.864 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL034890.D

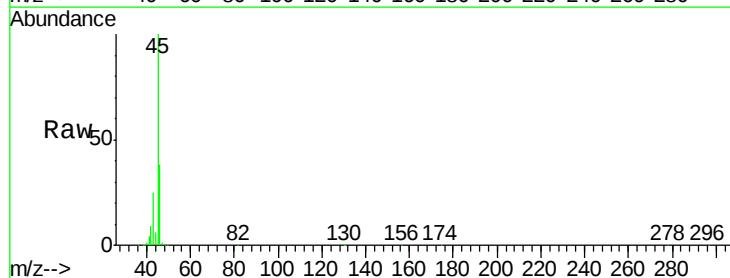
Acq: 16 Mar 2020 14:41

Tgt Ion: 45 Resp: 685983

Ion Ratio Lower Upper

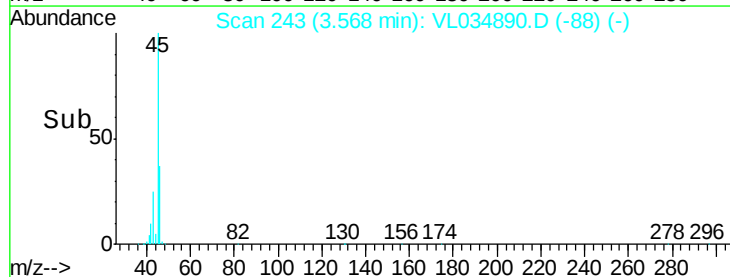
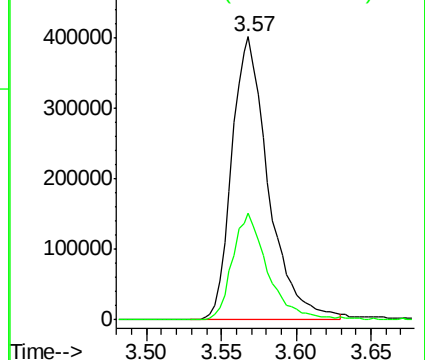
45 100

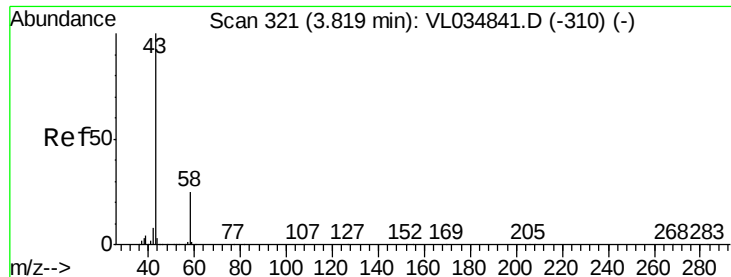
46 36.6 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.090 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.01 min

Lab File: VL034890.D

Acq: 16 Mar 2020 14:41

Instrument :

MSVOA_L

ClientSampleId :

IA-03

Tot Ion: 43 Resp: 866561

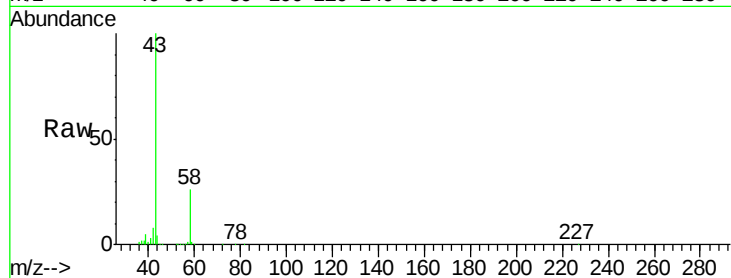
Ion Ratio Lower Upper

43 100

58 24.1 21.0 31.6

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.81

600000

500000

400000

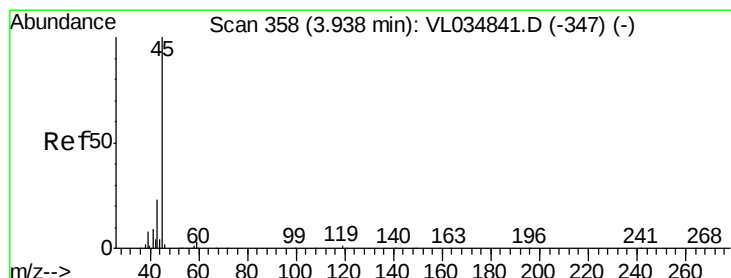
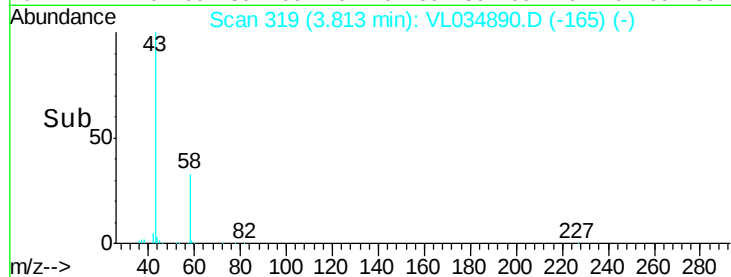
300000

200000

100000

0

Time-->



#19

Isopropyl Alcohol

Concen: 2.556 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL034890.D

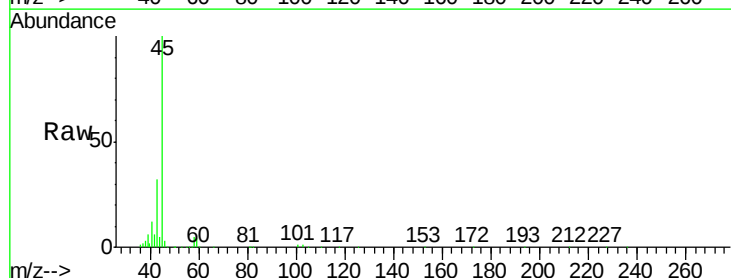
Acq: 16 Mar 2020 14:41

Tgt Ion: 45 Resp: 197287

Ion Ratio Lower Upper

45 100

58 4.4 30.5 45.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

100000

80000

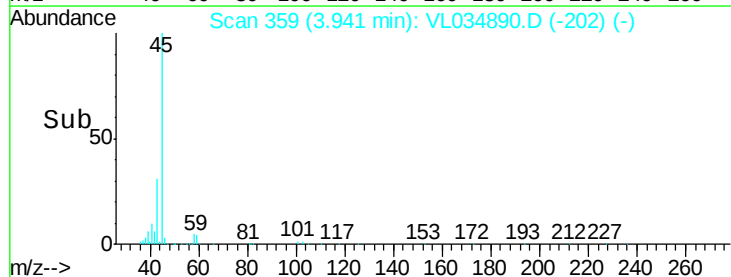
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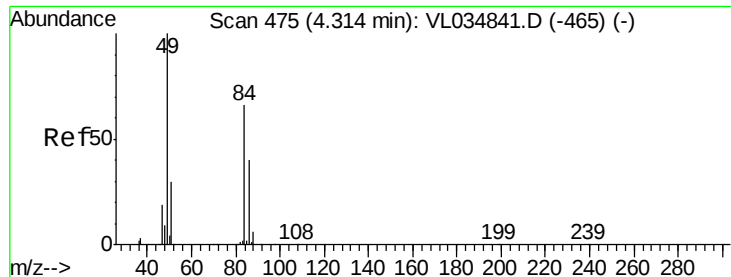
40000

20000

0

Time-->





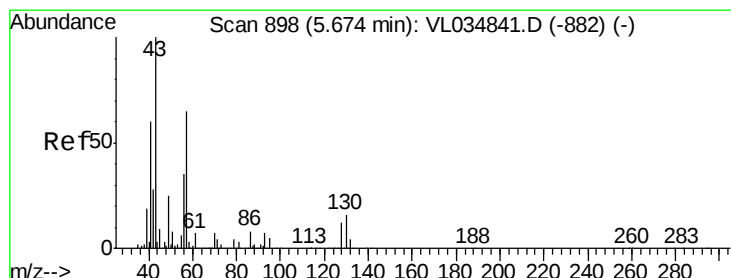
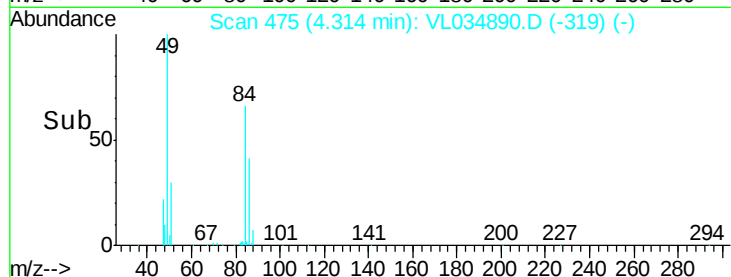
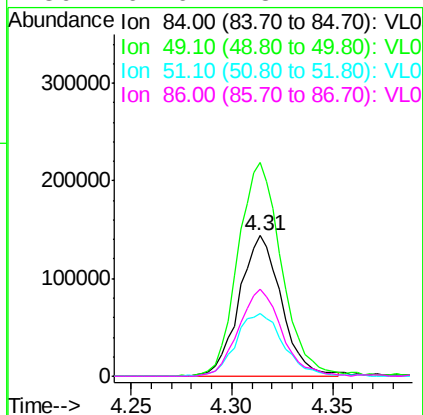
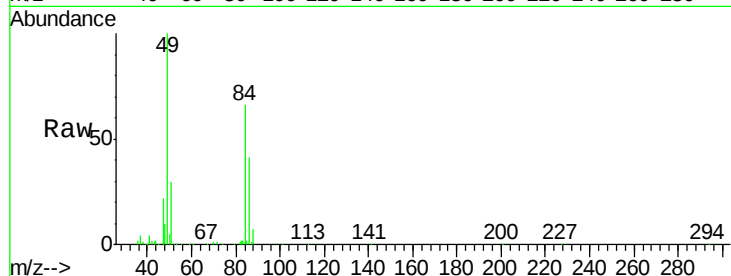
#20
Methvlene Chloride
Concen: 5.465 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.00 min
Lab File: VL034890.D
Acq: 16 Mar 2020 14:41

Instrument :
MSVOA_L
ClientSampleId :
IA-03

Tot Ion:	84	Resp:	211187
Ion	Ratio	Lower	Upper
84	100		
49	152.0	121.5	182.3
51	44.6	36.6	55.0
86	61.6	48.2	72.2

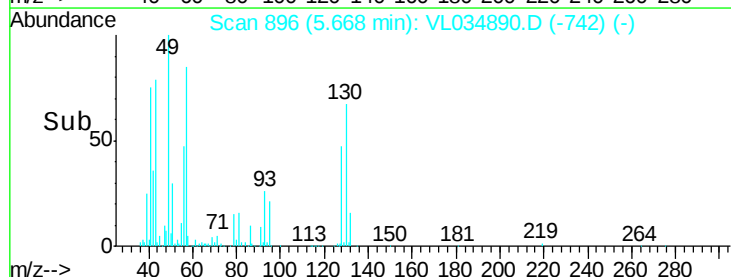
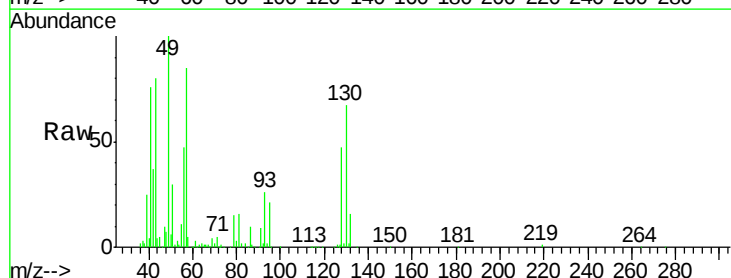
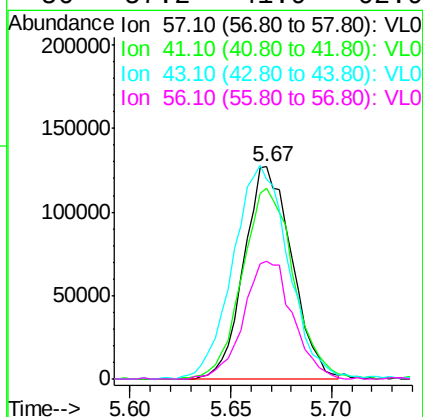
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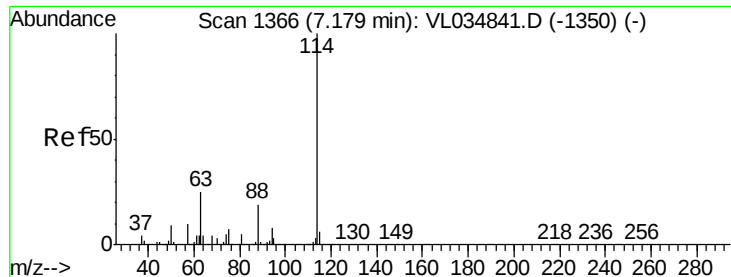
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#26
Hexane
Concen: 2.255 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL034890.D
Acq: 16 Mar 2020 14:41

Tgt Ion:	57	Resp:	211472
Ion	Ratio	Lower	Upper
57	100		
41	97.0	72.6	109.0
43	116.9	183.8	275.6#
56	57.2	41.9	62.9





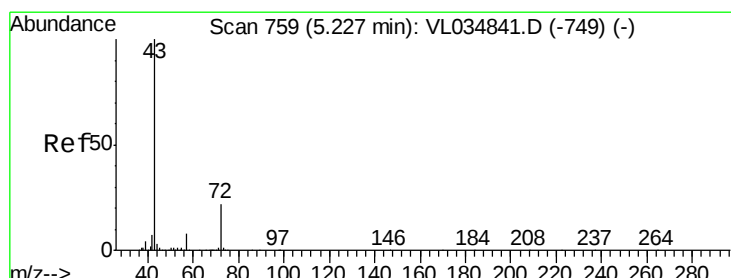
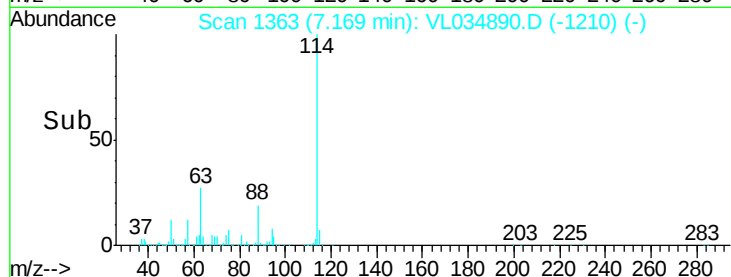
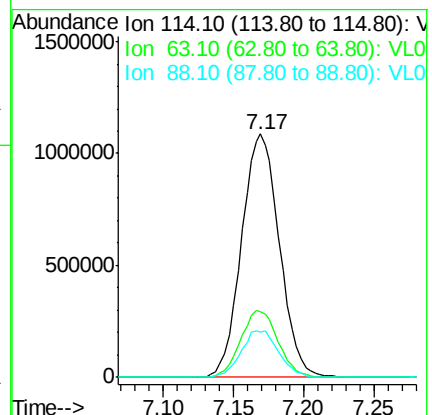
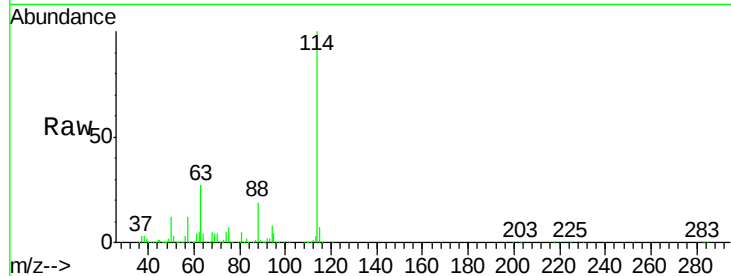
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL034890.D
 Acq: 16 Mar 2020 14:41

Instrument :
 MSVOA_L
 ClientSampled :
 IA-03

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.3	20.6	31.0
88	19.3	15.0	22.6

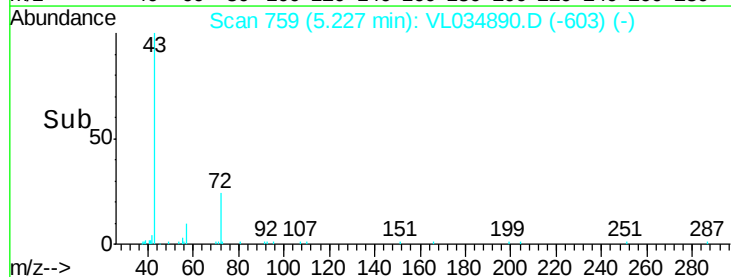
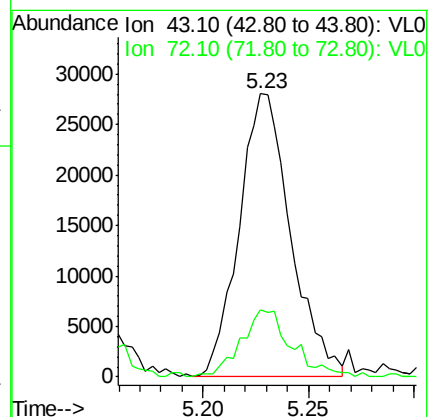
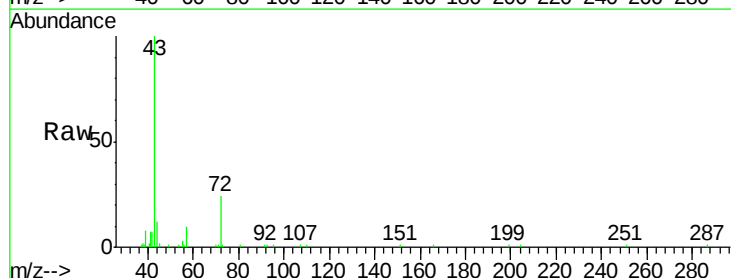
Manual Integrations
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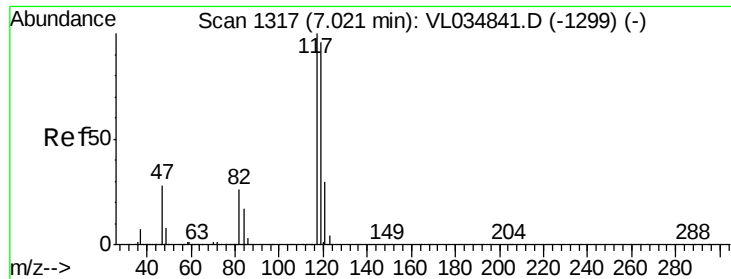
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#34
 2-Butanone
 Concen: 0.352 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: VL034890.D
 Acq: 16 Mar 2020 14:41

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.4	17.6	26.4





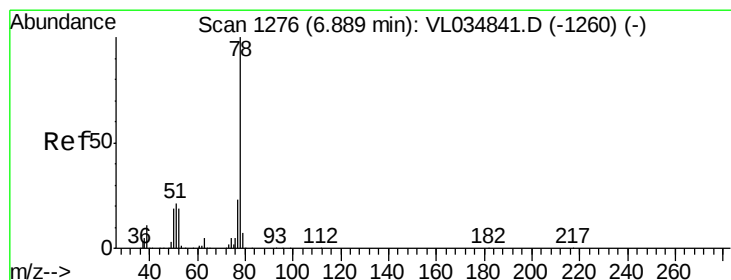
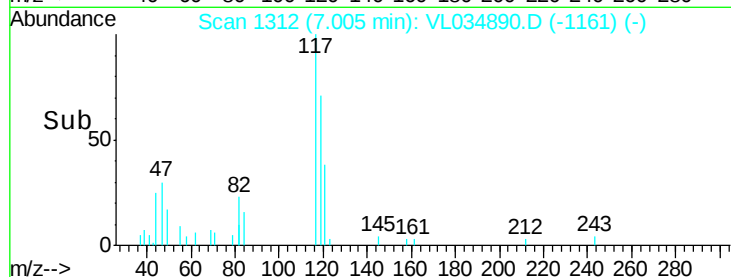
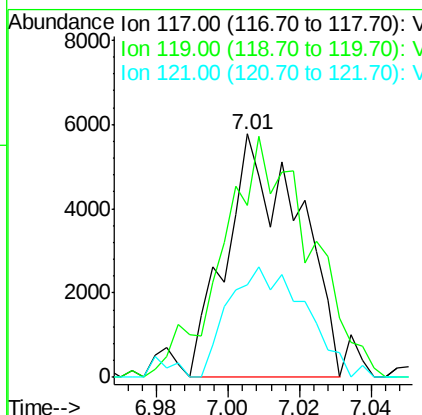
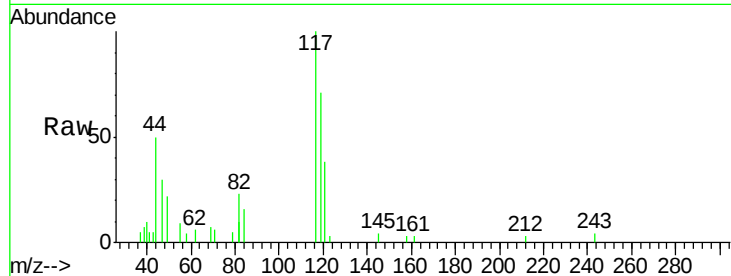
#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 7.01 min Scan# 1312
Delta R.T. -0.02 min
Lab File: VL034890.D
Acq: 16 Mar 2020 14:41

Instrument :
MSVOA_L
ClientSampled :
IA-03

Tot Ion	Ratio	Lower	Upper
117	100		
119	70.8	77.0	115.4#
121	38.1	24.0	36.0#

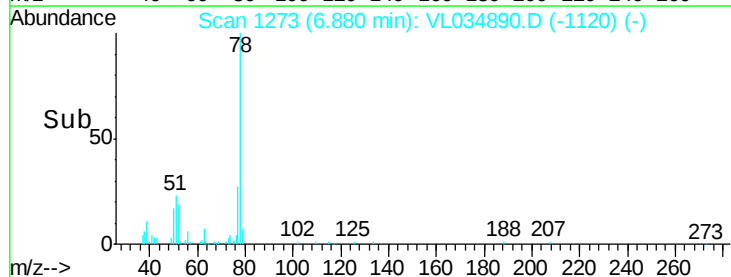
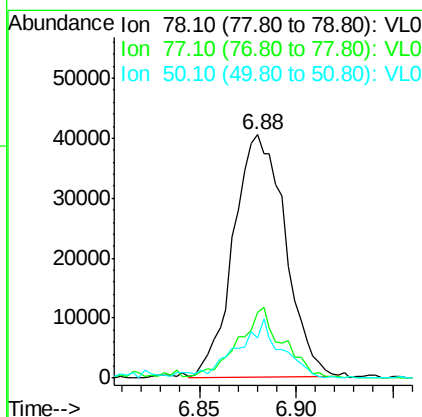
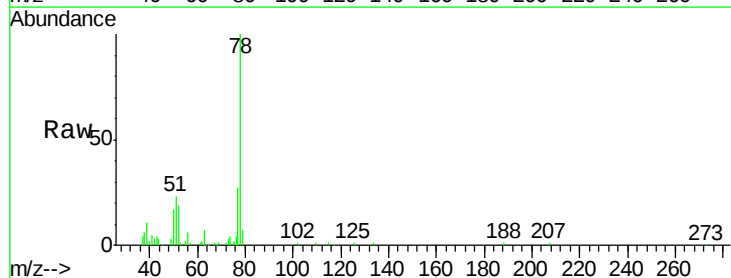
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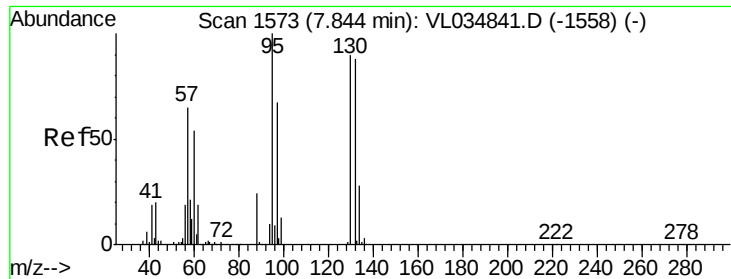
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#36
Benzene
Concen: 0.411 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.01 min
Lab File: VL034890.D
Acq: 16 Mar 2020 14:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.7	18.2	27.2
50	16.8	15.2	22.8





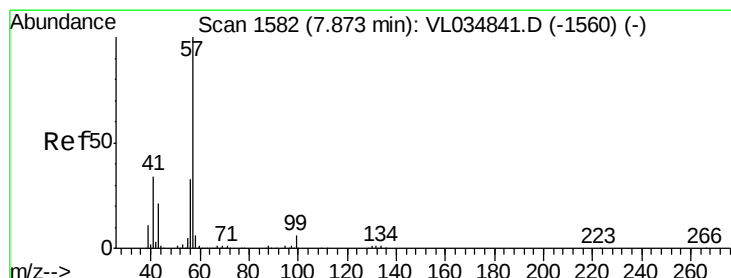
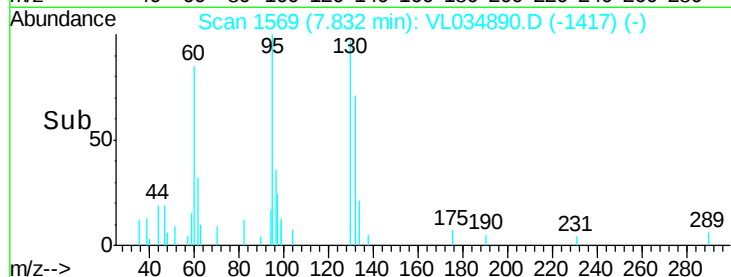
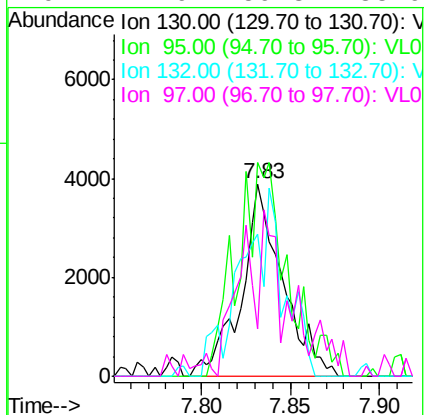
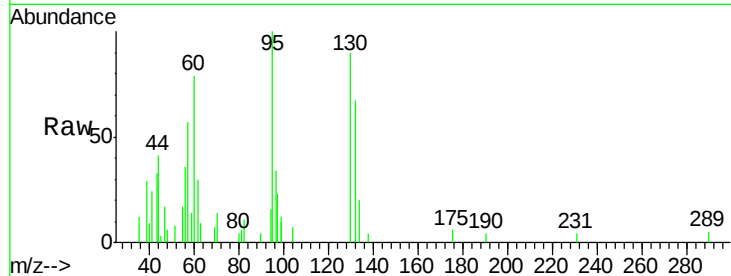
#38
 Trichloroethene
 Concen: 0.090 ppbv m
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: VL034890.D
 Acq: 16 Mar 2020 14:41

Instrument :
 MSVOA_L
 ClientSampled :
 IA-03

Tot Ion	Ratio	Lower	Upper
130	100		
95	110.9	88.5	132.7
132	74.0	78.0	117.0#
97	24.9	59.3	88.9#

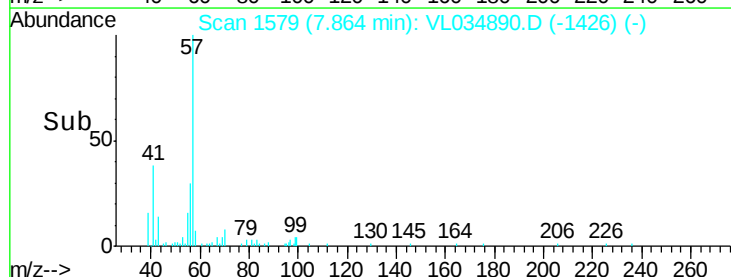
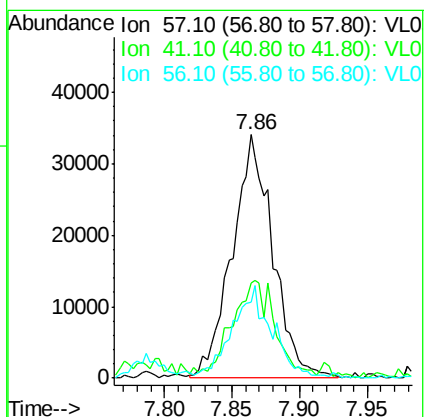
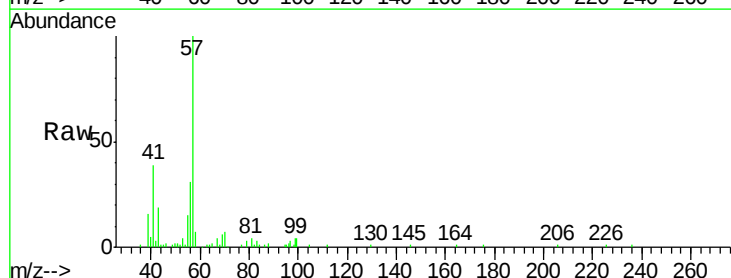
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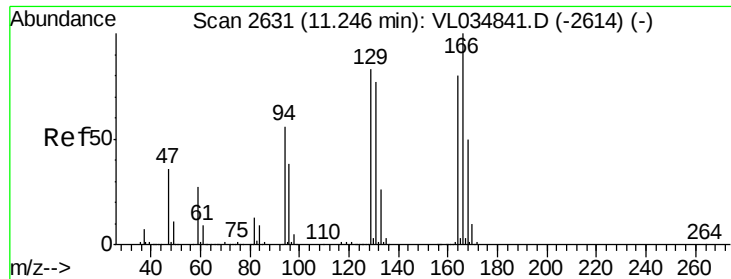
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#44
 2,2,4-Trimethylpentane
 Concen: 0.231 ppbv m
 RT: 7.86 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: VL034890.D
 Acq: 16 Mar 2020 14:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	44.6	26.2	39.4#
56	37.1	25.0	37.4





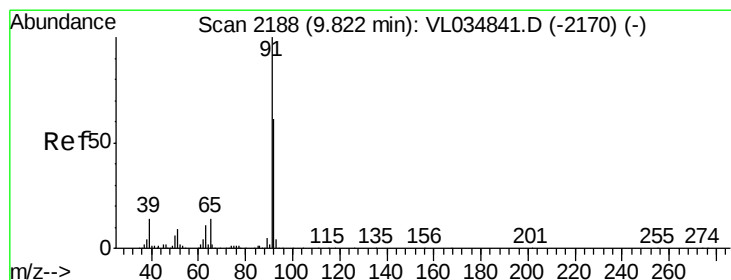
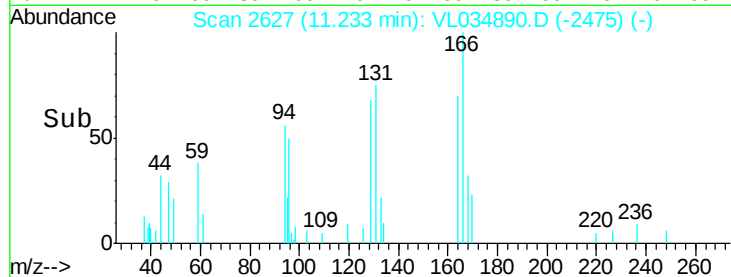
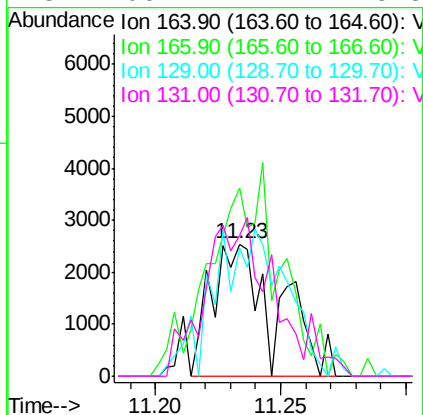
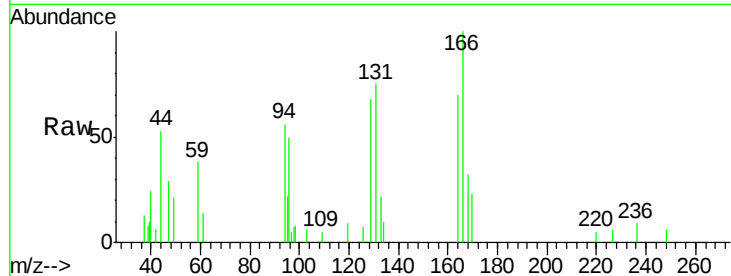
#52
Tetrachloroethene
Concen: 0.065 ppbv m
RT: 11.23 min Scan# 2627
Delta R.T. -0.01 min
Lab File: VL034890.D
Acq: 16 Mar 2020 14:41

Instrument :
MSVOA_L
ClientSampleId :
IA-03

Tot Ion	Ratio	Lower	Upper
164	100		
166	142.7	100.0	150.0
129	96.9	83.1	124.7
131	106.7	77.2	115.8

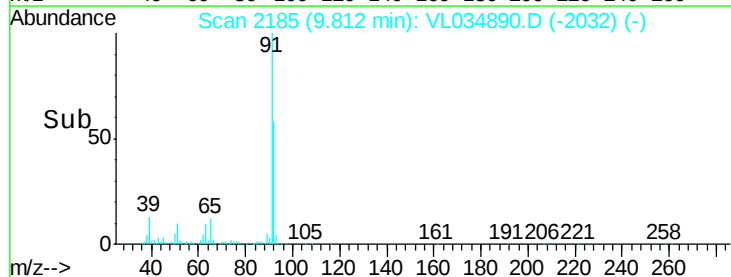
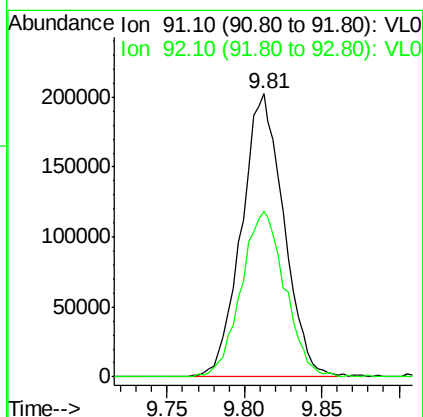
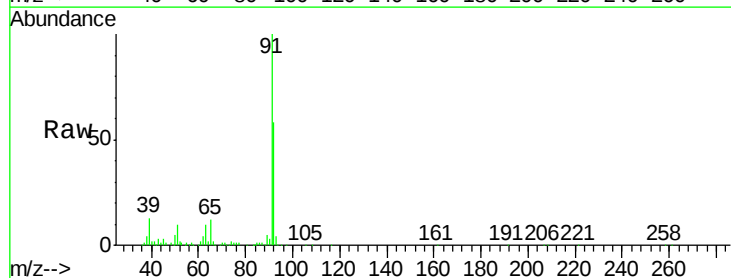
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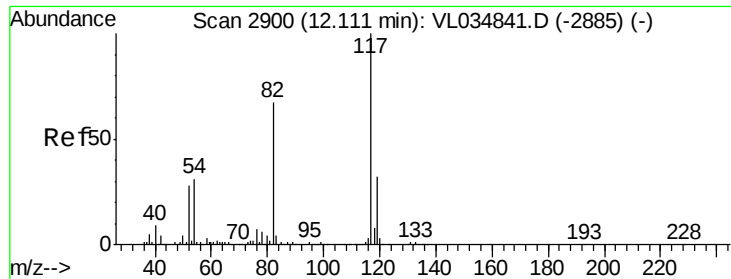
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#53
Toluene
Concen: 1.830 ppbv
RT: 9.81 min Scan# 2185
Delta R.T. -0.01 min
Lab File: VL034890.D
Acq: 16 Mar 2020 14:41

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.6	72.8





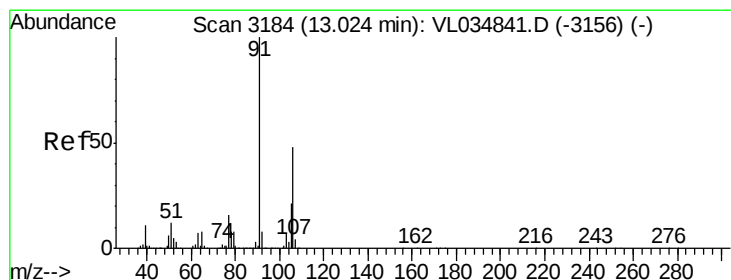
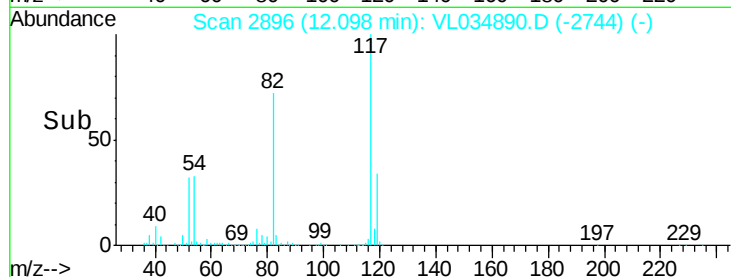
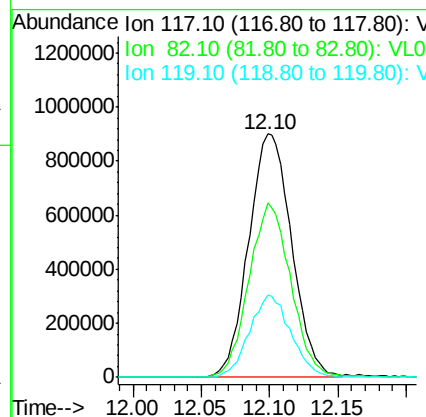
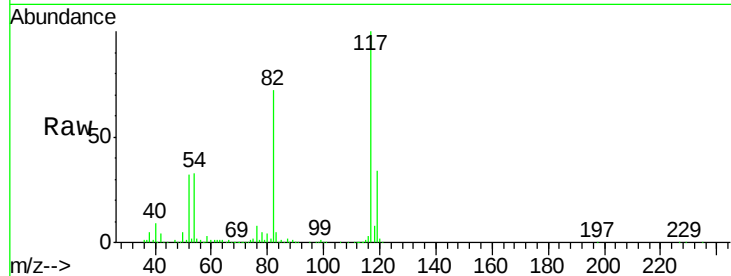
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL034890.D
Acq: 16 Mar 2020 14:41

Instrument :
MSVOA_L
ClientSampled :
IA-03

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.1	51.1	76.7
119	32.6	27.3	40.9

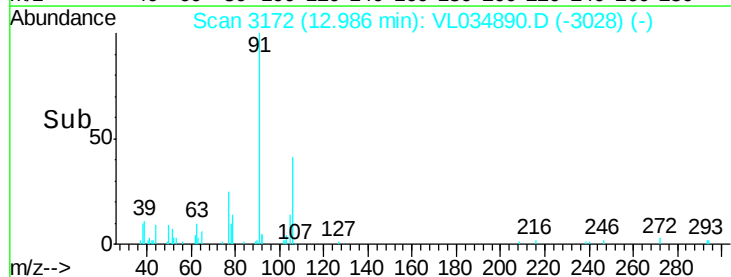
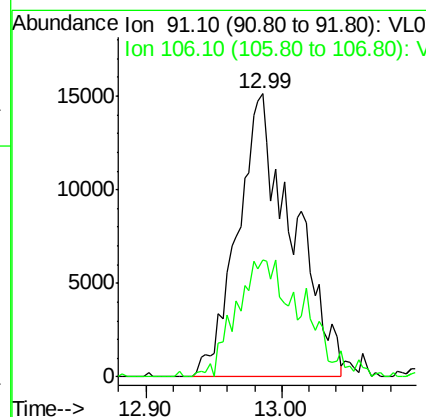
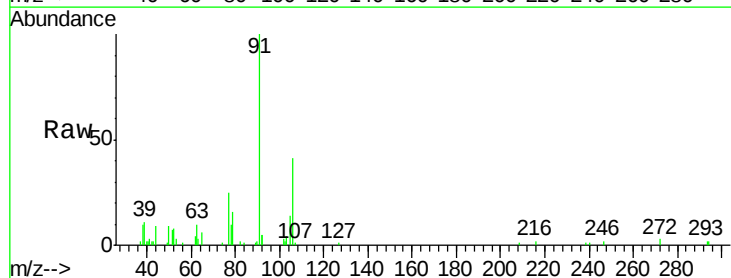
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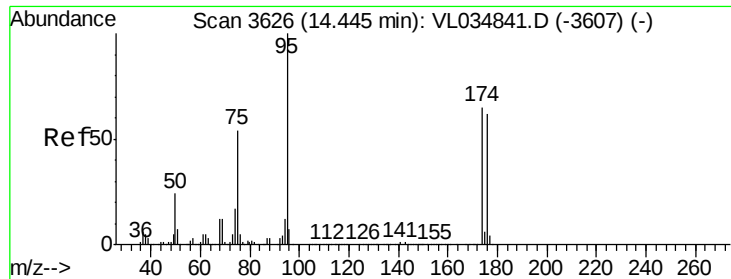
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#59
m/p-Xylene
Concen: 0.191 ppbv m
RT: 12.99 min Scan# 3172
Delta R.T. -0.04 min
Lab File: VL034890.D
Acq: 16 Mar 2020 14:41

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.1	55.7#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.566 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.01 min
 Lab File: VL034890.D
 Acq: 16 Mar 2020 14:41

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-03

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.3	55.2	82.8
175	4.9	4.3	6.5

Manual Integrations
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