

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034622.D
 Acq On : 18 Feb 2020 13:40
 Operator : SY/AP
 Sample : L1532-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA

Manual Integrations
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 2/21/2020 3:25:31 PM

Quant Time: Feb 19 06:26:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	882618	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1818932	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1758894	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1510185	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	99613	0.512	ppbv #	86
3) Chlorodifluoromethane	2.95	51	20276m	0.190	ppbv	
4) Chloromethane	3.10	50	28496	0.437	ppbv	99
9) Propene	2.98	41	29673m	0.715	ppbv	
11) Trichlorofluoromethane	3.92	101	44416	0.252	ppbv	88
13) Ethanol	3.58	45	43849m	3.942	ppbv	
15) Acetone	3.83	43	250188	1.929	ppbv	100
20) Methylene Chloride	4.32	84	155836	3.155	ppbv	92
26) Hexane	5.67	57	135241	1.537	ppbv #	38
34) 2-Butanone	5.25	43	19093m	0.145	ppbv	
35) Carbon Tetrachloride	7.02	117	12249m	0.070	ppbv	
36) Benzene	6.89	78	20831m	0.129	ppbv	
53) Toluene	9.82	91	210235	1.183	ppbv	96

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

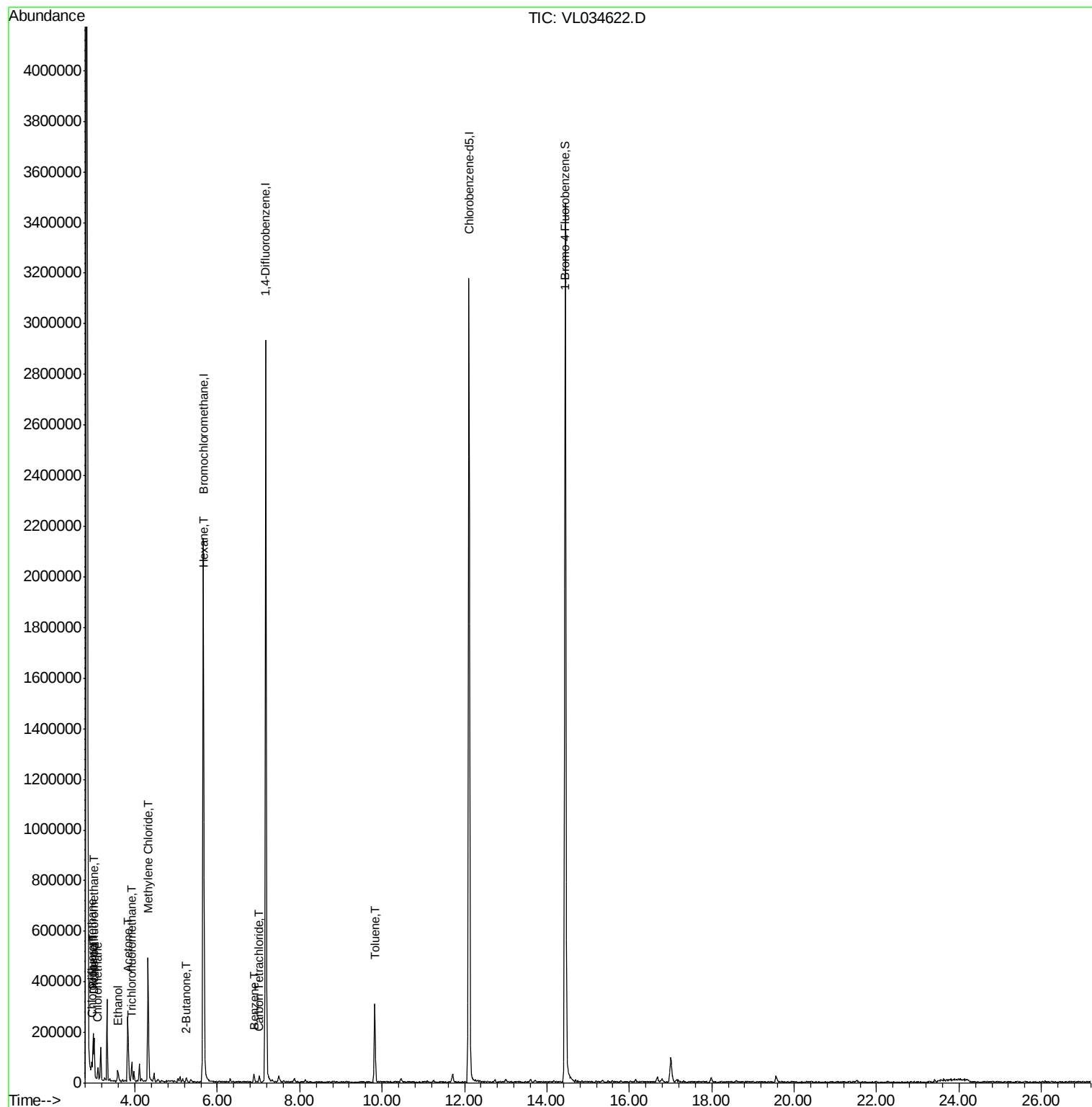
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021820\
Data File : VL034622.D
Acq On : 18 Feb 2020 13:40
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

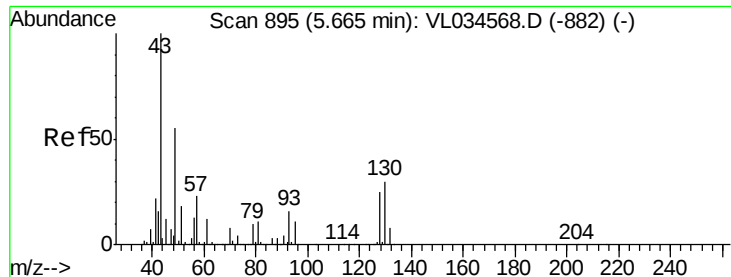
Instrument :
MSVOA_L
ClientSampleId :
QA

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Quant Time: Feb 19 06:26:03 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

Instrument :

MSVOA_L

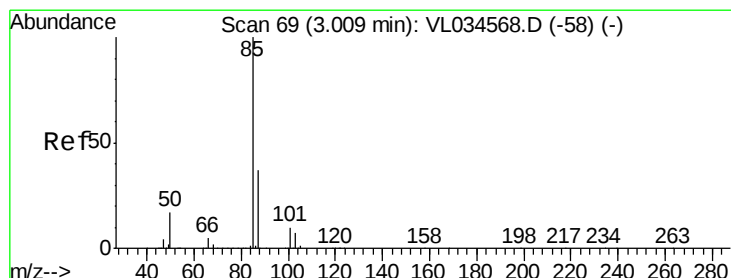
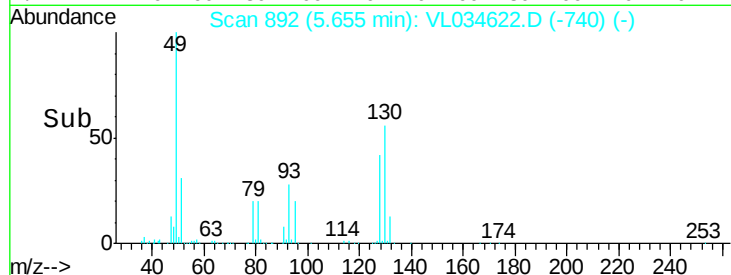
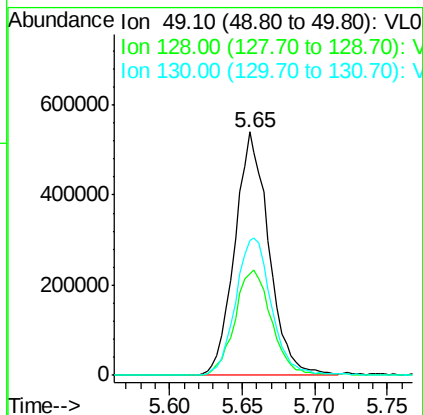
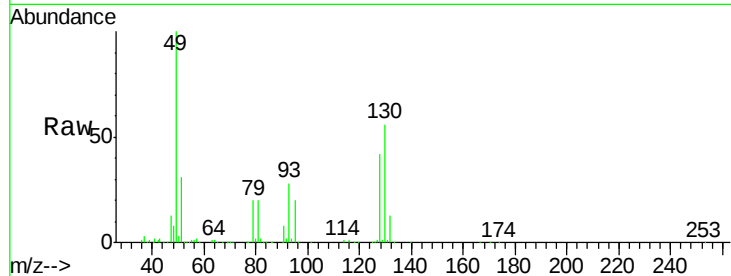
ClientSampleId :

QA

Tot Ion:	49	Resp:	882618
Ion Ratio	Lower	Upper	
49	100		
128	46.5	22.7	68.1
130	59.7	28.6	85.8

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#2

Dichlorodifluoromethane

Concen: 0.512 ppbv

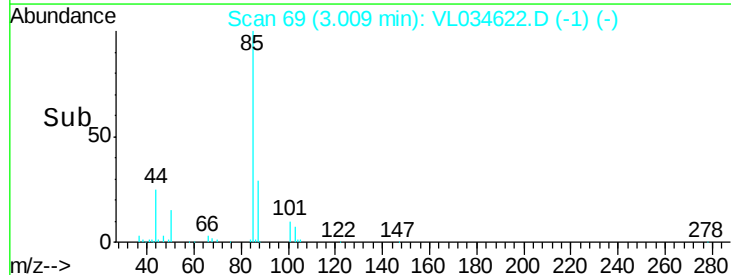
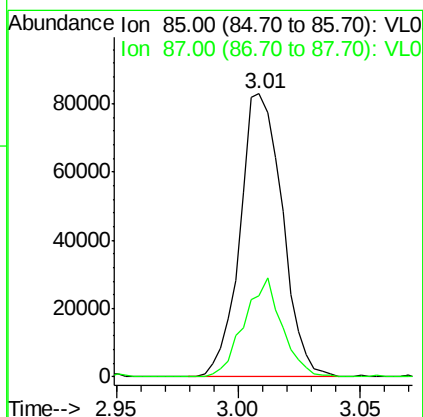
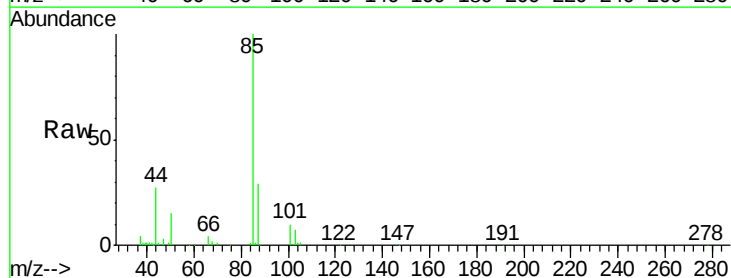
RT: 3.01 min Scan# 69

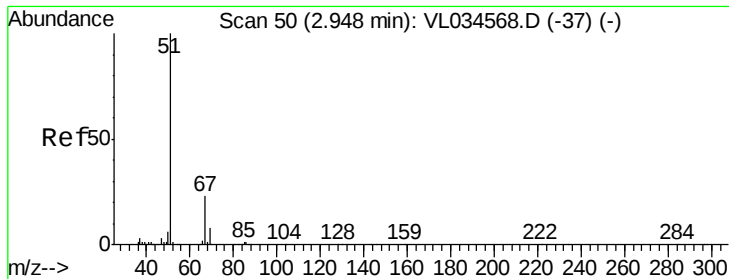
Delta R.T. -0.00 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

Tgt Ion:	85	Resp:	99613
Ion Ratio	Lower	Upper	
85	100		
87	28.5	29.5	44.3#





#3

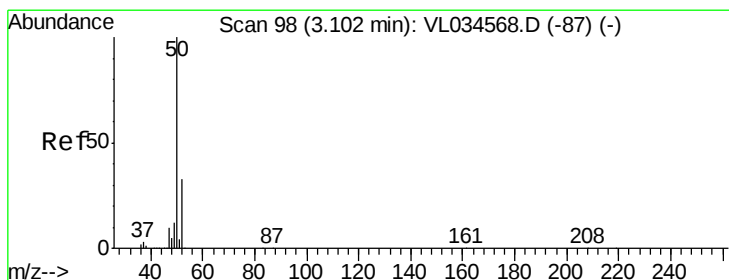
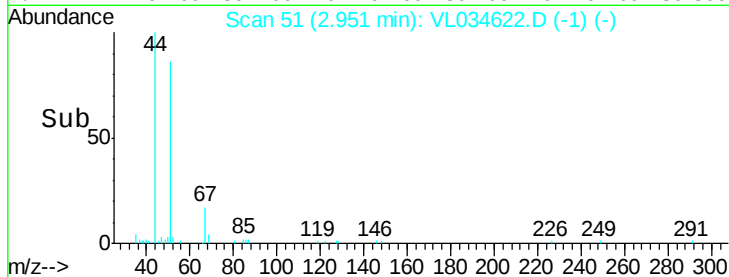
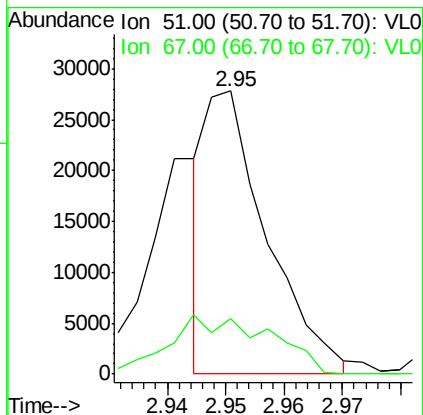
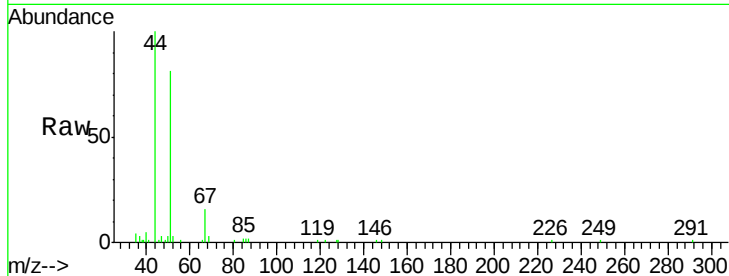
Chlorodifluoromethane
 Concen: 0.190 ppbv
 RT: 2.95 min Scan# 51
 Delta R.T. 0.00 min
 Lab File: VL034622.D
 Acq: 18 Feb 2020 13:40

Instrument :
 MSVOA_L
 ClientSampleId :
 OA

Tot Ion	Ratio	Lower	Upper
51	100		
67	35.3	17.8	26.8#

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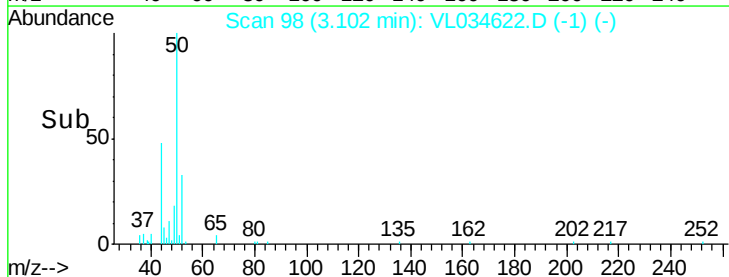
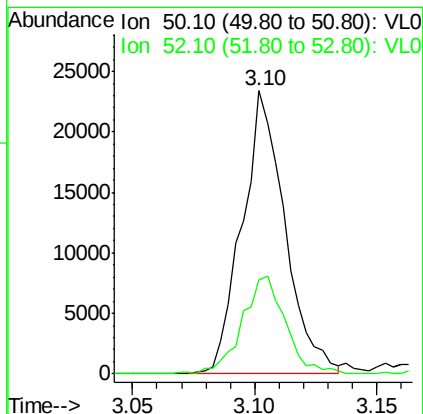
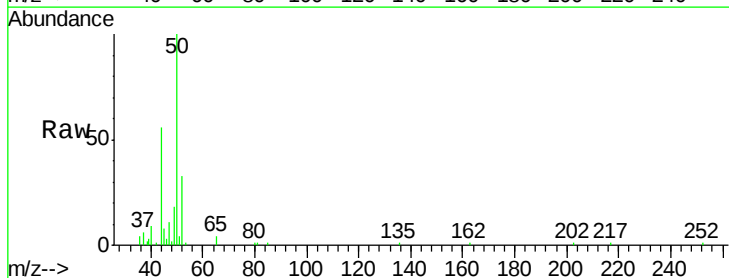
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#4

Chloromethane
 Concen: 0.437 ppbv
 RT: 3.10 min Scan# 98
 Delta R.T. -0.00 min
 Lab File: VL034622.D
 Acq: 18 Feb 2020 13:40

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.6	39.8





#9

Propene

Concen: 0.715 ppbv m

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

Instrument :

MSVOA_L

ClientSampled :

QA

Tot Ion: 41 Resp: 29673

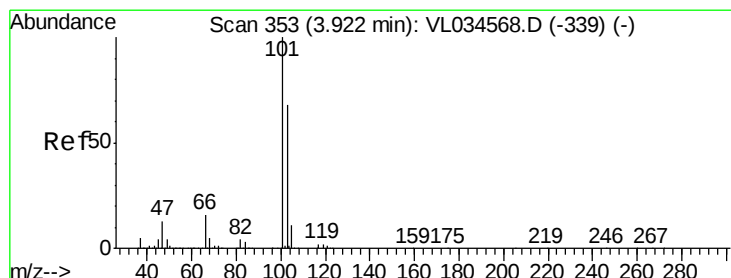
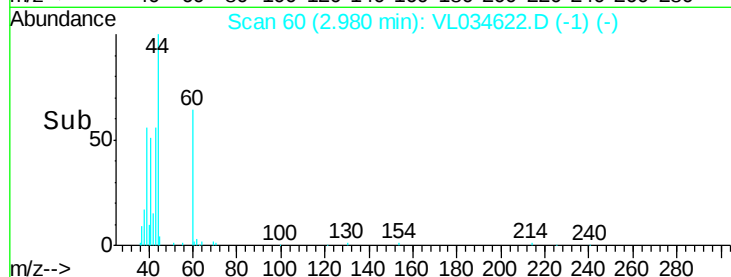
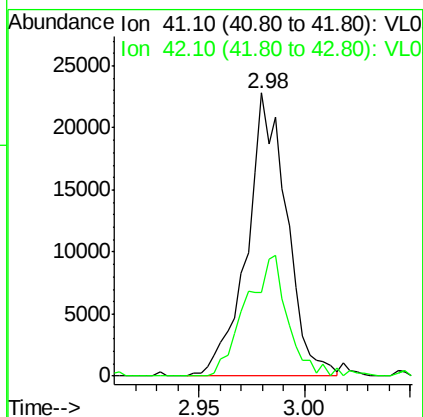
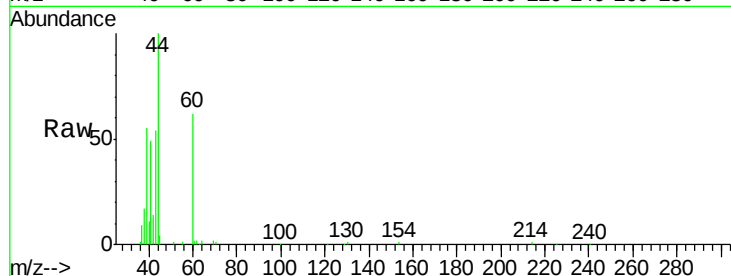
Ion Ratio Lower Upper

41 100

42 63.7 57.0 85.4

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#11

Trichlorofluoromethane

Concen: 0.252 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034622.D

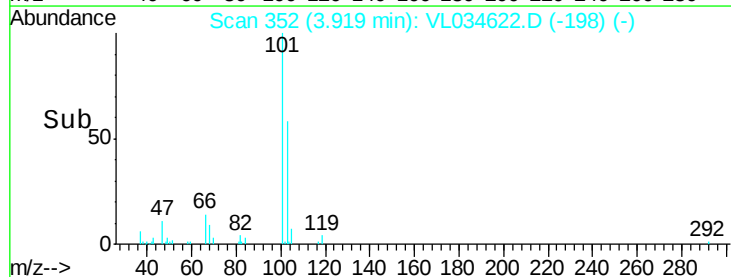
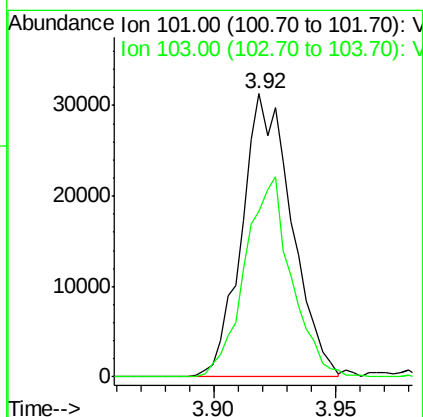
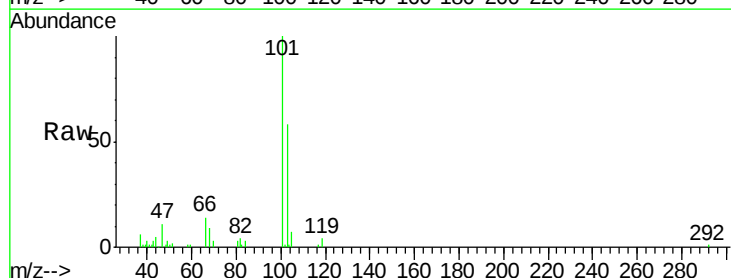
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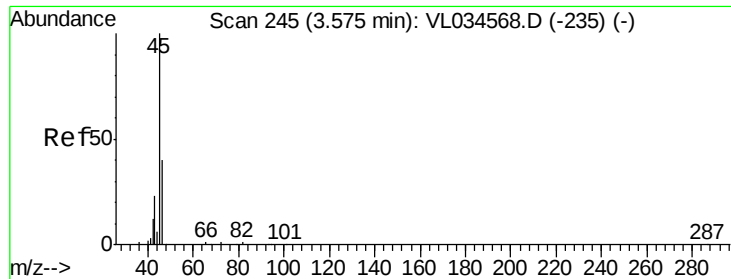
Tgt Ion: 101 Resp: 44416

Ion Ratio Lower Upper

101 100

103 58.4 54.4 81.6





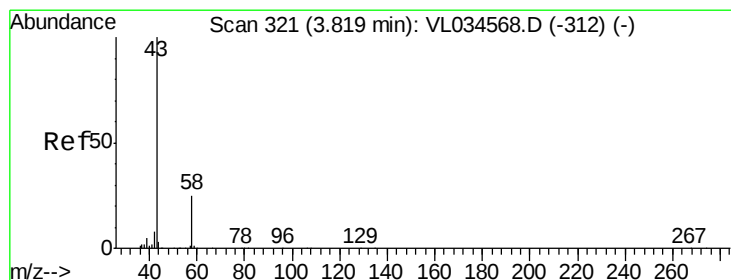
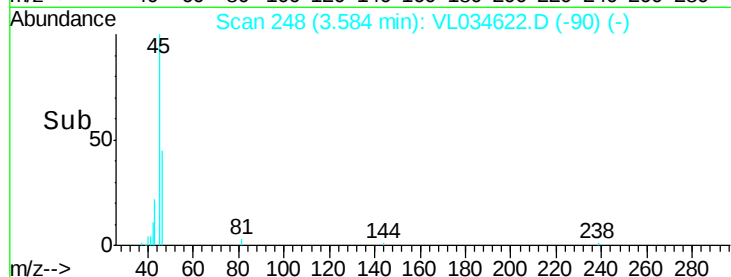
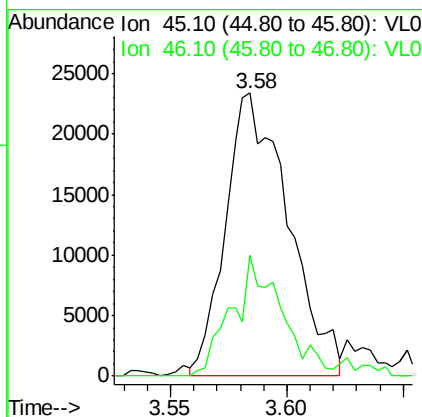
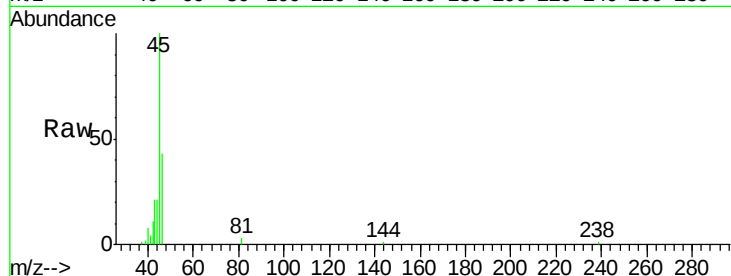
#13
Ethanol
Concen: 3.942 ppbv m
RT: 3.58 min Scan# 248
Delta R.T. 0.01 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Instrument :
MSVOA_L
ClientSampled :
QA

Tot Ion: 45 Resp: 43849
Ion Ratio Lower Upper
45 100
46 36.4 14.8 59.2

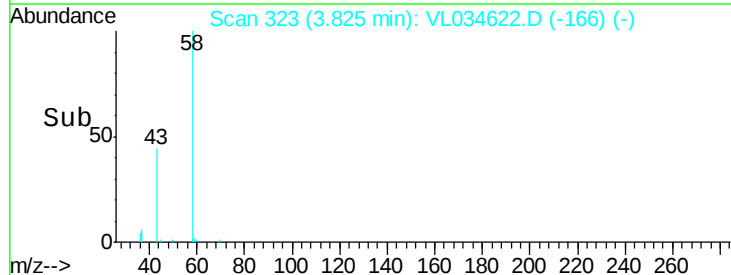
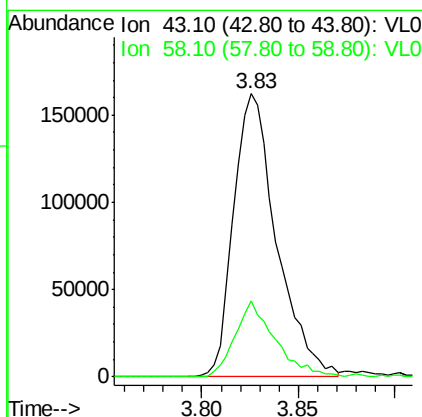
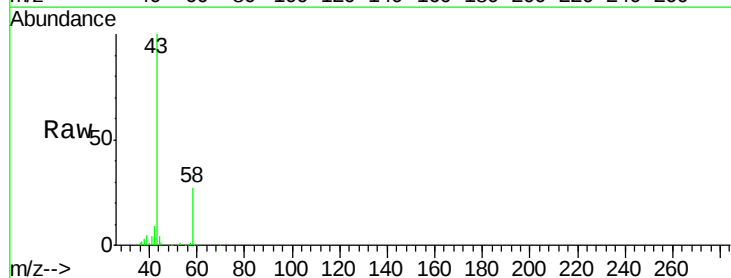
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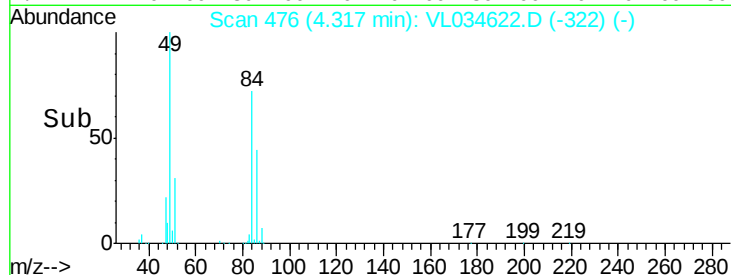
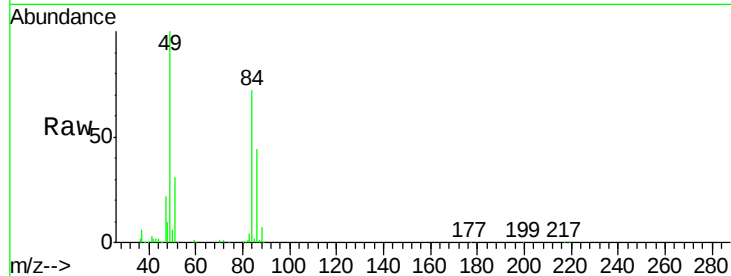
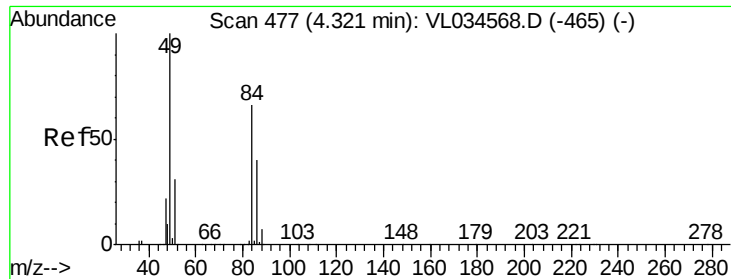
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#15
Acetone
Concen: 1.929 ppbv
RT: 3.83 min Scan# 323
Delta R.T. 0.01 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Tgt Ion: 43 Resp: 250188
Ion Ratio Lower Upper
43 100
58 25.4 20.3 30.5





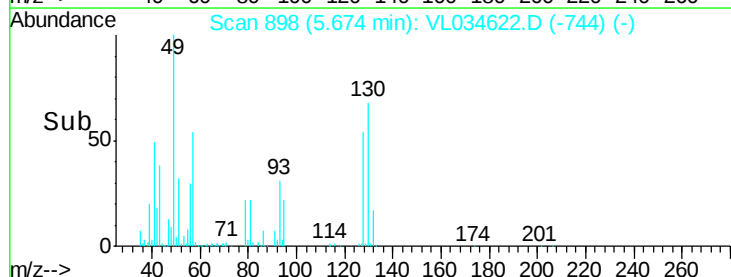
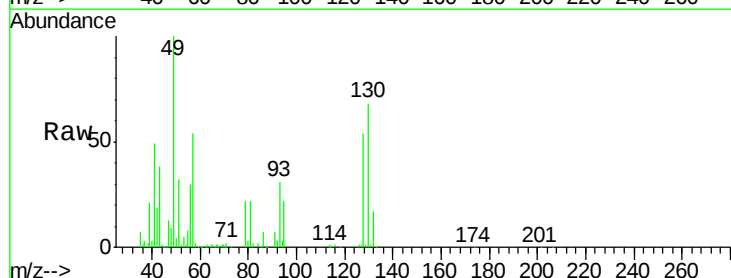
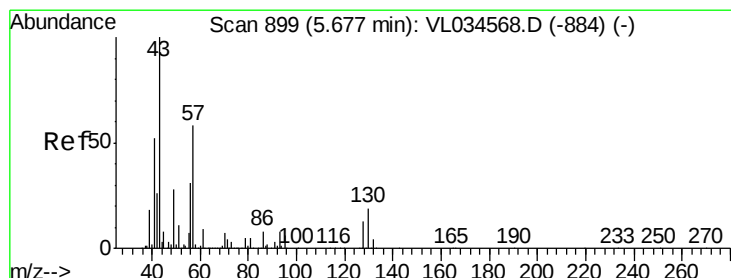
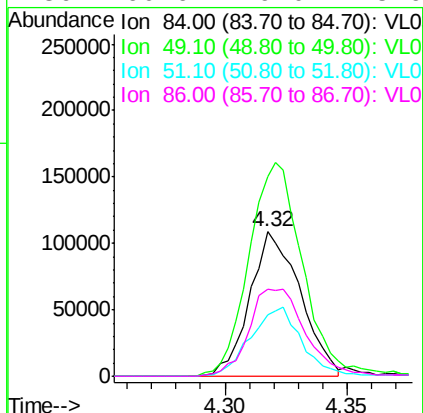
#20
Methvlene Chloride
Concen: 3.155 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Tot Ion	84	Resp	155836
Ion Ratio	Lower	Upper	
84	100		
49	138.4	122.4	183.6
51	42.5	38.6	57.8
86	60.6	49.0	73.6

Instrument :
MSVOA_L
ClientSampled :
QA

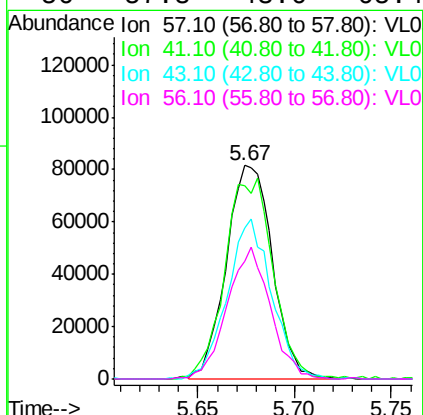
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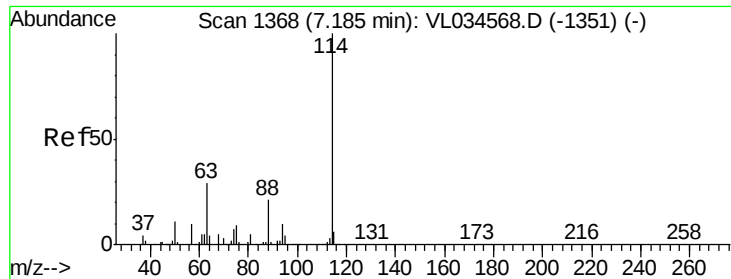
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#26
Hexane
Concen: 1.537 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Tgt Ion	57	Resp	135241
Ion Ratio	Lower	Upper	
57	100		
41	98.9	76.2	114.2
43	72.4	189.9	284.9#
56	57.8	43.6	65.4





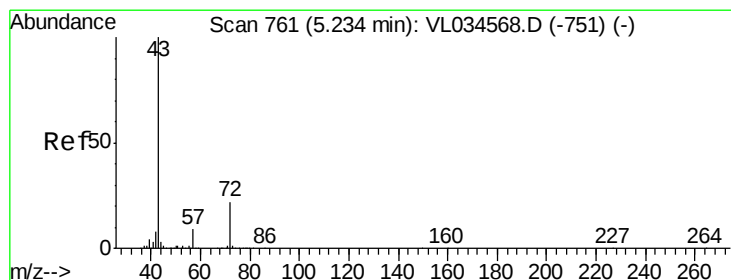
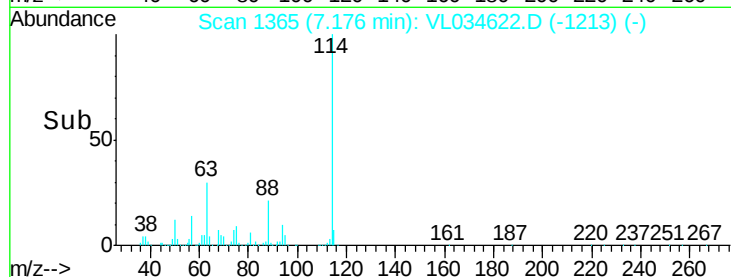
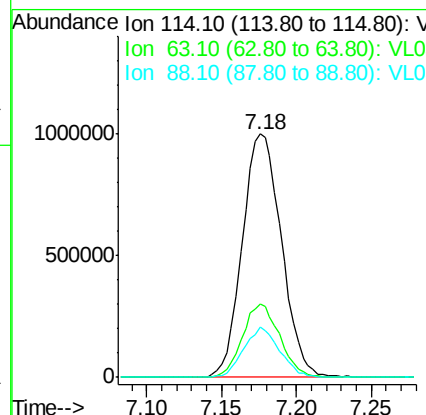
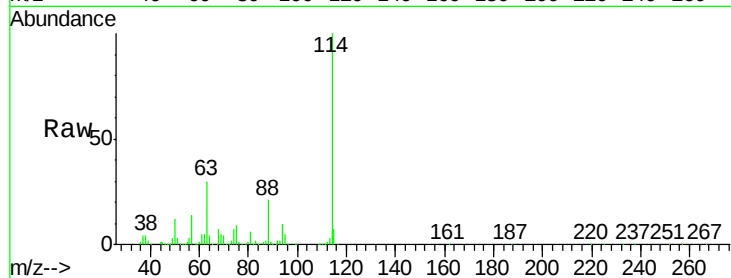
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL034622.D
 Acq: 18 Feb 2020 13:40

Instrument :
 MSVOA_L
 ClientSampled :
 OA

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.9	24.1	36.1
88	19.1	15.9	23.9

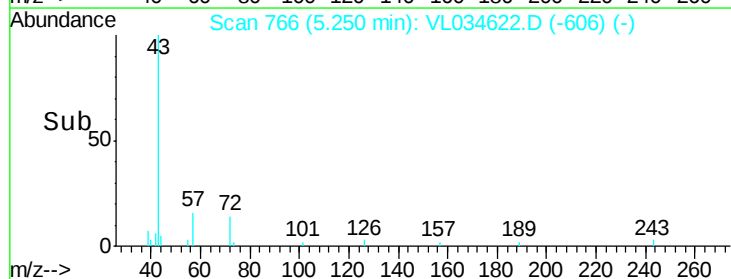
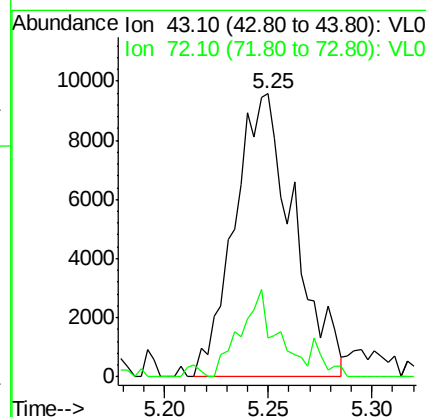
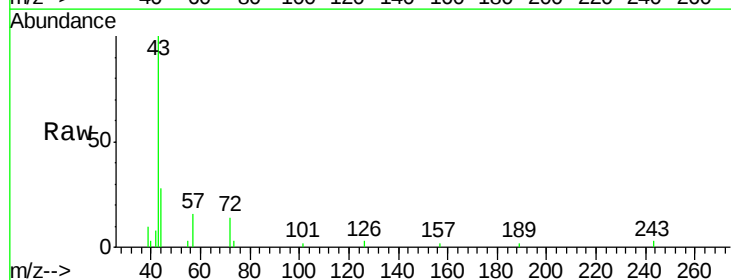
Manual Integrations
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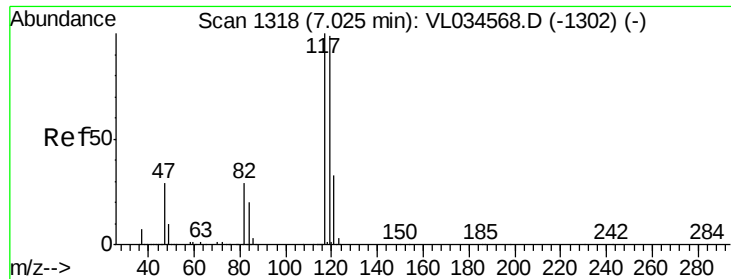
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#34
 2-Butanone
 Concen: 0.145 ppbv m
 RT: 5.25 min Scan# 766
 Delta R.T. 0.02 min
 Lab File: VL034622.D
 Acq: 18 Feb 2020 13:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	17.2	25.8





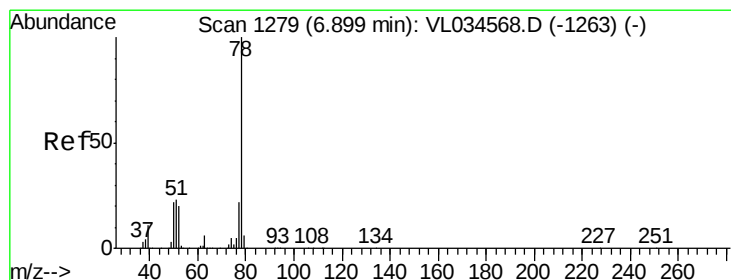
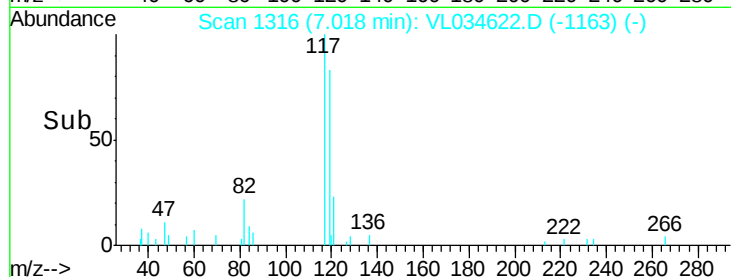
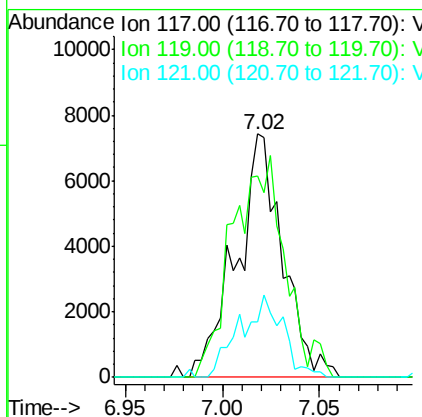
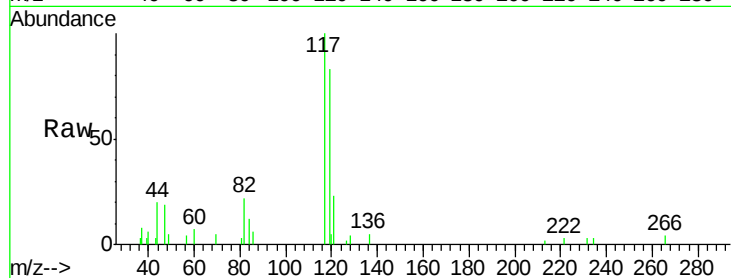
#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Instrument :
MSVOA_L
ClientSampled :
QA

Tot Ion	Ratio	Lower	Upper
117	100		
119	82.8	79.5	119.3
121	22.7	26.2	39.2#

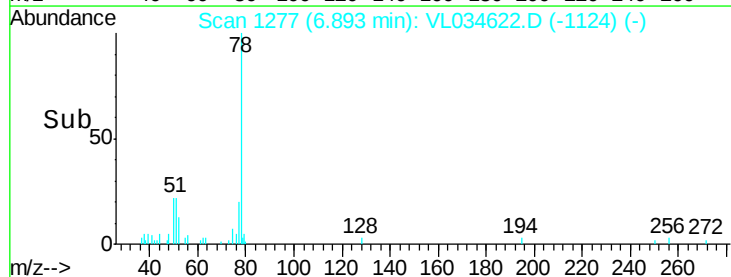
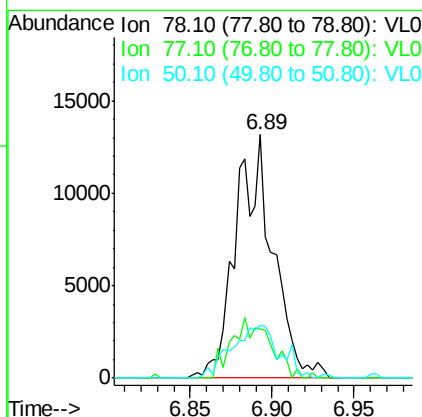
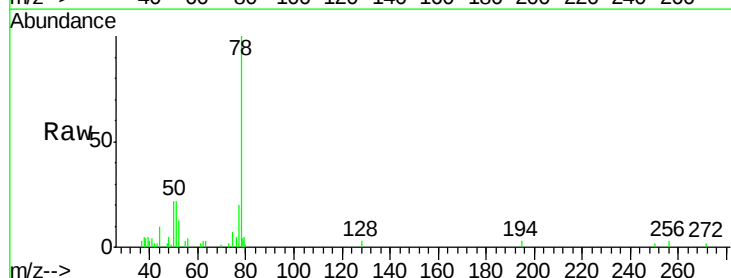
Manual Integrations
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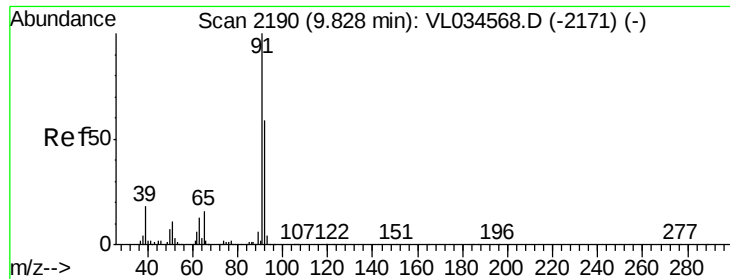
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#36
Benzene
Concen: 0.129 ppbv m
RT: 6.89 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.0	17.3	25.9
50	21.7	17.4	26.2





#53

Toluene

Concen: 1.183 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

Instrument :

MSVOA_L

ClientSampleId :

QA

Tot Ion: 91 Resp: 210235

Ion Ratio Lower Upper

91 100

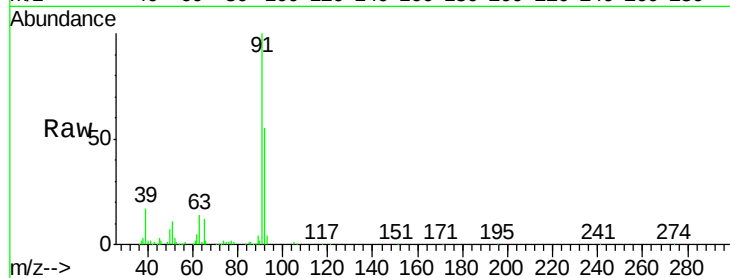
92 57.2 48.2 72.2

Manual Integrations

APPROVED

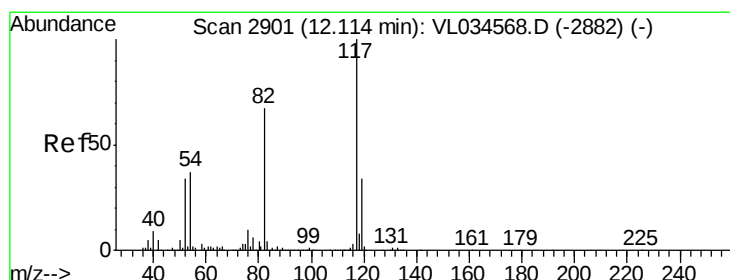
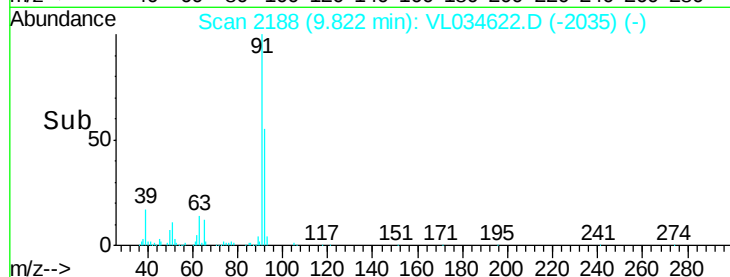
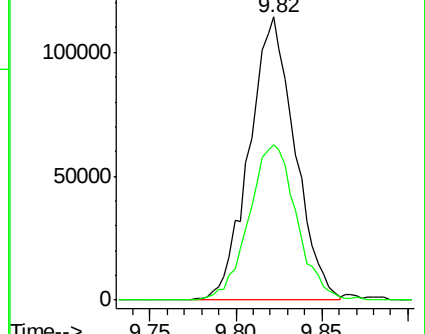
MMDadoda

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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: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

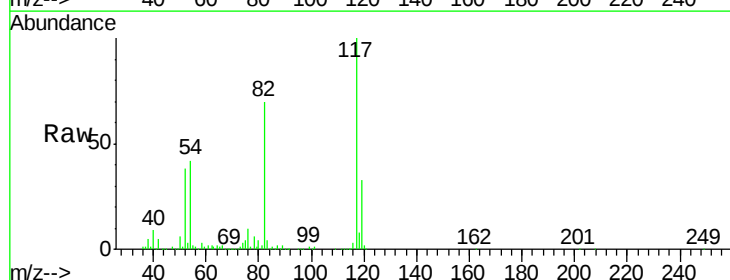
Tgt Ion: 117 Resp: 1758894

Ion Ratio Lower Upper

117 100

82 71.4 54.2 81.4

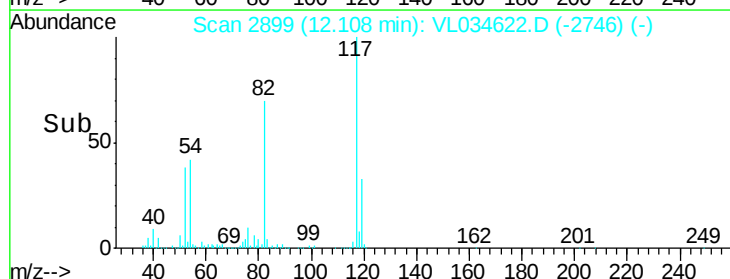
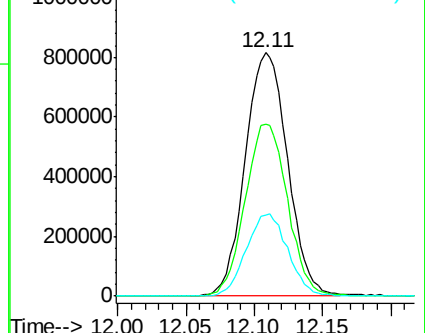
119 33.4 26.1 39.1

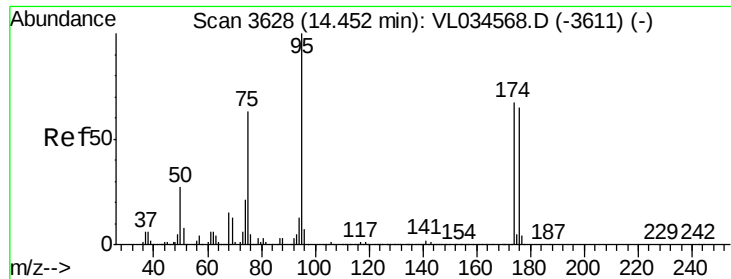


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.159 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.01 min
 Lab File: VL034622.D
 Acq: 18 Feb 2020 13:40

Instrument :
 MSVOA_L
 ClientSampleId :
 OA

Tot Ion: 95 Resp: 1510185
 Ion Ratio Lower Upper
 95 100
 174 64.7 52.3 78.5
 175 4.7 3.8 5.6

Manual Integrations
 APPROVED

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