

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112918\
 Data File : VL032838.D
 Acq On : 29 Nov 2018 17:22
 Operator : SY/AP
 Sample : J6088-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4

Manual Integrations
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 12/4/2018 8:38:41 AM

Quant Time: Nov 30 07:19:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1386336	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3563100	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3350599	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2538917	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	87436	0.439	ppbv	95
3) Chlorodifluoromethane	3.02	51	159259m	1.449	ppbv	
4) Chloromethane	3.18	50	30573	0.502	ppbv #	86
9) Propene	3.06	41	64021m	1.456	ppbv	
10) Heptane	8.25	43	43453m	0.259	ppbv	
11) Trichlorofluoromethane	4.01	101	133893	0.713	ppbv	96
13) Ethanol	3.66	45	284398	19.741	ppbv	98
15) Acetone	3.91	43	1309900	10.346	ppbv	96
19) Isopropyl Alcohol	4.04	45	188050	2.230	ppbv #	1
20) Methylene Chloride	4.42	84	91457	1.395	ppbv	96
26) Hexane	5.79	57	153910	1.172	ppbv #	45
34) 2-Butanone	5.34	43	335872	1.817	ppbv	98
35) Carbon Tetrachloride	7.14	117	18278m	0.064	ppbv	
36) Benzene	7.01	78	101057	0.356	ppbv	95
38) Trichloroethene	7.97	130	67661	0.589	ppbv	96
41) Tetrahydrofuran	6.17	42	31731	0.299	ppbv	98
44) 2,2,4-Trimethylpentane	8.00	57	121122	0.255	ppbv #	74
52) Tetrachloroethene	11.39	164	82377m	0.835	ppbv	
53) Toluene	9.96	91	1201214	4.058	ppbv	100
58) Ethyl Benzene	12.88	91	160595m	0.398	ppbv	
59) m/p-Xylene	13.13	91	503232	1.402	ppbv	98
60) o-Xylene	13.86	91	136578	0.378	ppbv	99
72) 4-Ethyltoluene	16.01	105	40908m	0.103	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	157355	0.380	ppbv #	68

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

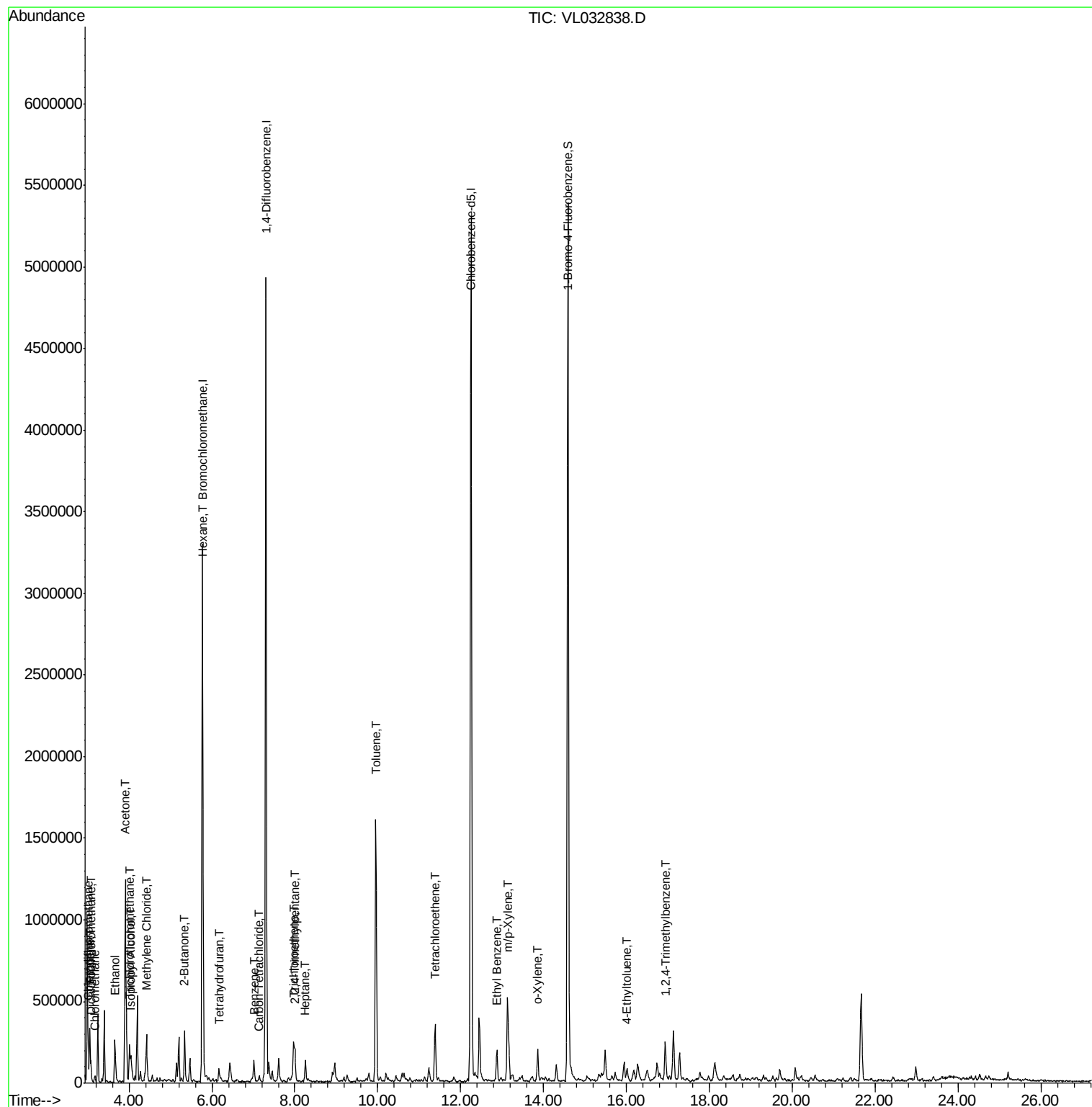
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL112918\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032838.D

Acq: 29 Nov 2018 17:22

Instrument :

MSVOA_L

ClientSampleId :

IAS-4

Tgt Ion: 49 Resp: 1386336

Ion Ratio Lower Upper

49 100

128 51.6 24.9 74.6

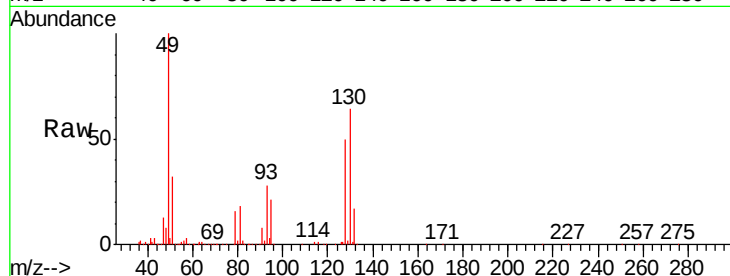
130 65.8 31.4 94.2

Manual Integrations

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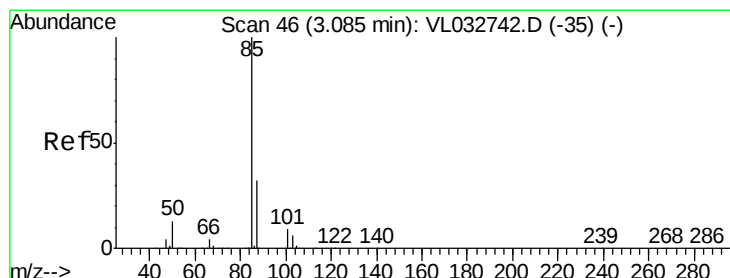
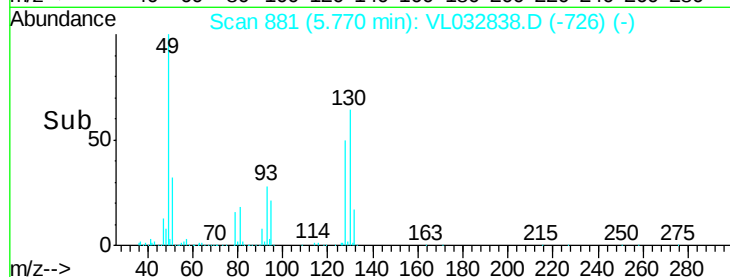
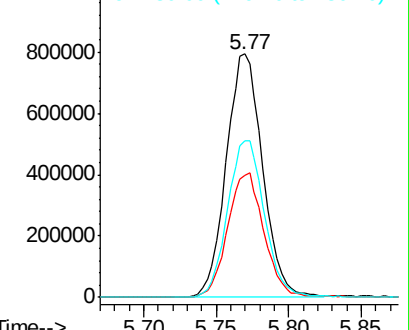
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.439 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032838.D

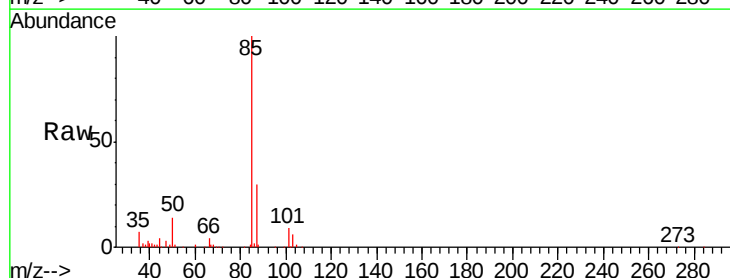
Acq: 29 Nov 2018 17:22

Tgt Ion: 85 Resp: 87436

Ion Ratio Lower Upper

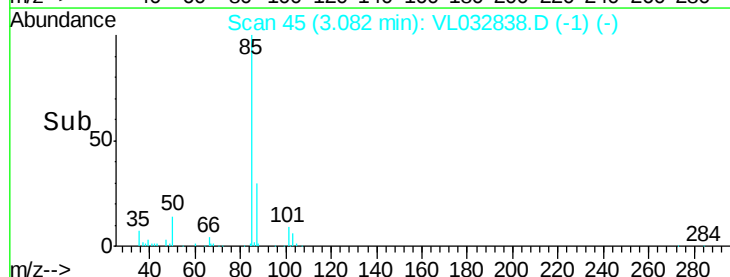
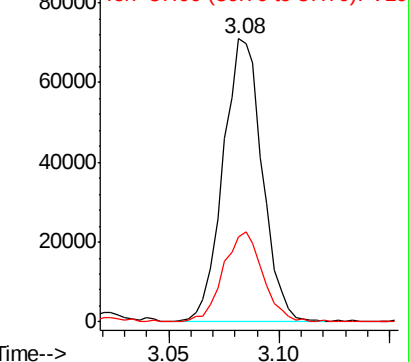
85 100

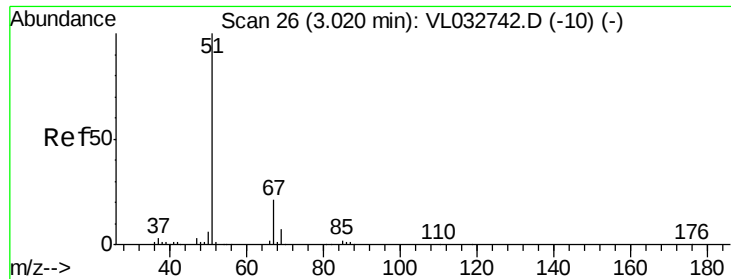
87 29.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





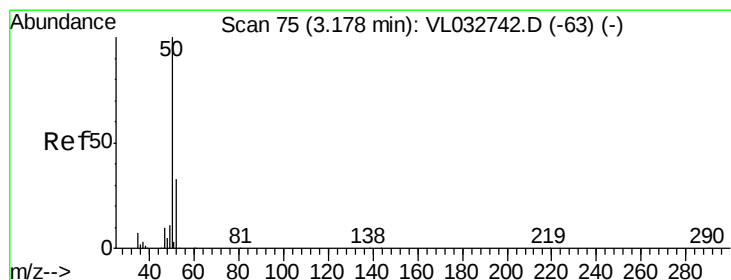
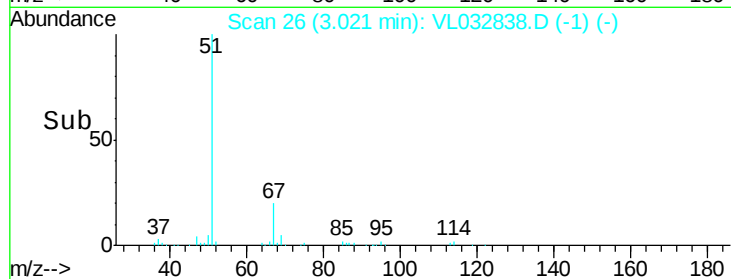
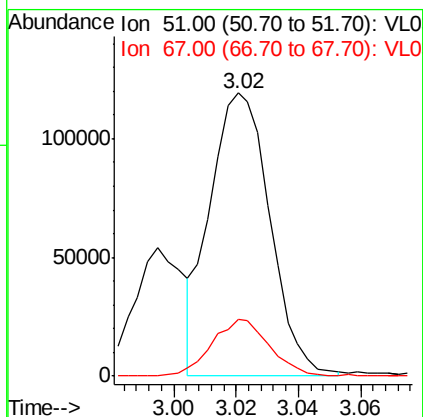
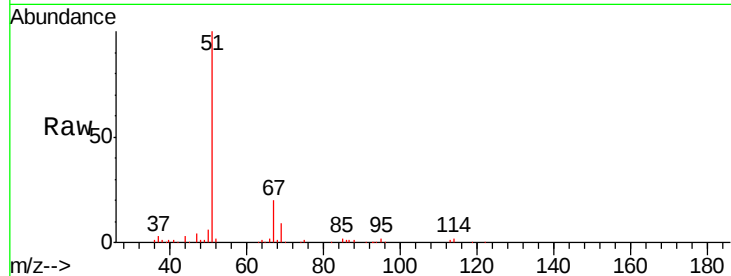
#3
Chlorodifluoromethane
Concen: 1.449 ppbv
RT: 3.02 min Scan# 26
Delta R.T. 0.00 min
Lab File: VL032838.D
Acq: 29 Nov 2018 17:22

Instrument :
MSVOA_L
ClientSampleId :
IAS-4

Tgt Ion: 51 Resp: 159259
Ion Ratio Lower Upper
51 100
67 19.5 16.1 24.1

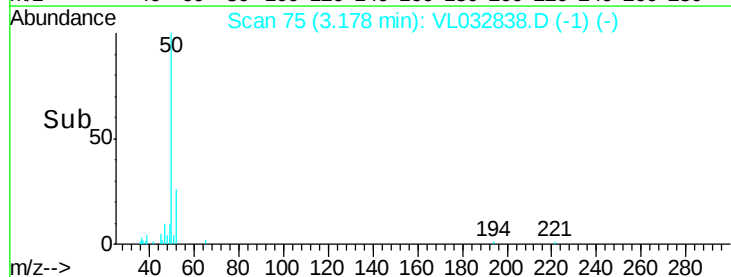
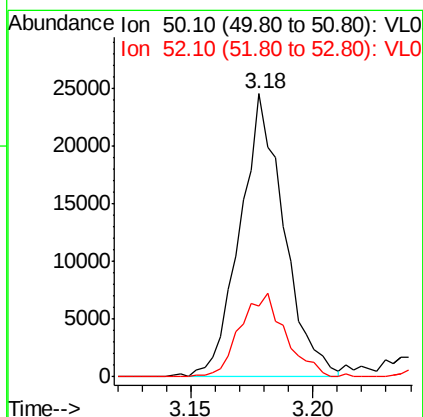
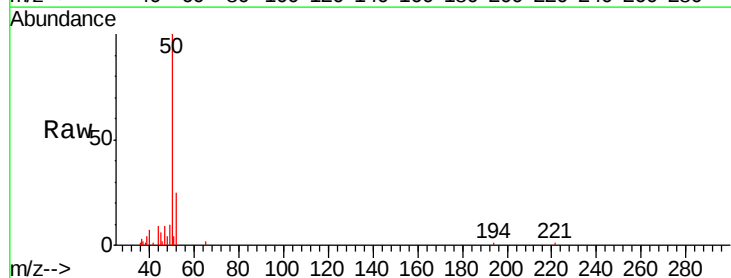
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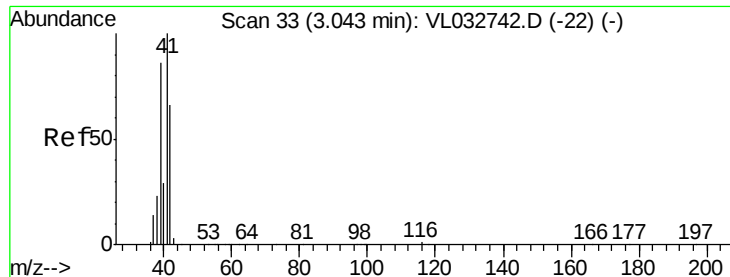
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#4
Chloromethane
Concen: 0.502 ppbv
RT: 3.18 min Scan# 75
Delta R.T. 0.00 min
Lab File: VL032838.D
Acq: 29 Nov 2018 17:22

Tgt Ion: 50 Resp: 30573
Ion Ratio Lower Upper
50 100
52 25.3 26.6 40.0#





#9

Propene

Concen: 1.456 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032838.D

Acq: 29 Nov 2018 17:22

Instrument :

MSVOA_L

ClientSampled :

IAS-4

Tgt Ion: 41 Resp: 64021

Ion Ratio Lower Upper

41 100

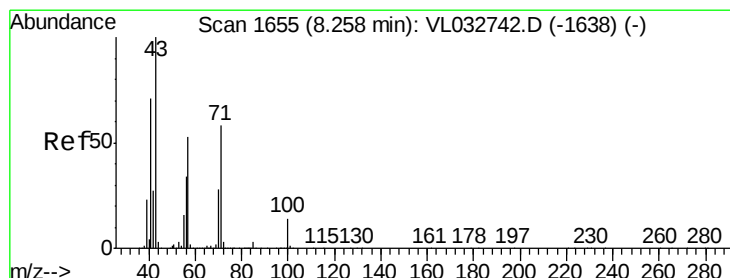
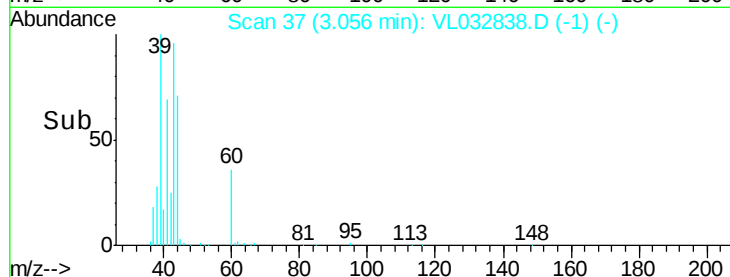
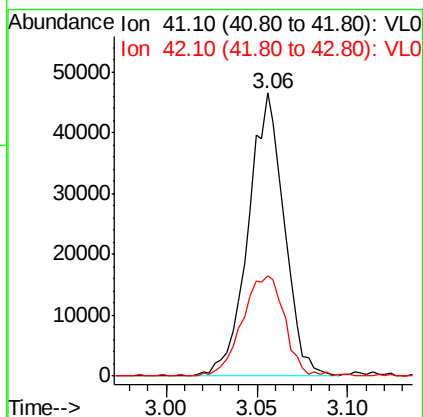
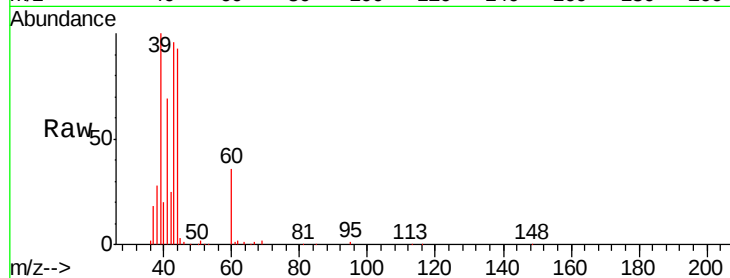
42 104.6 55.0 82.6#

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#10

Heptane

Concen: 0.259 ppbv m

RT: 8.25 min Scan# 1653

Delta R.T. -0.01 min

Lab File: VL032838.D

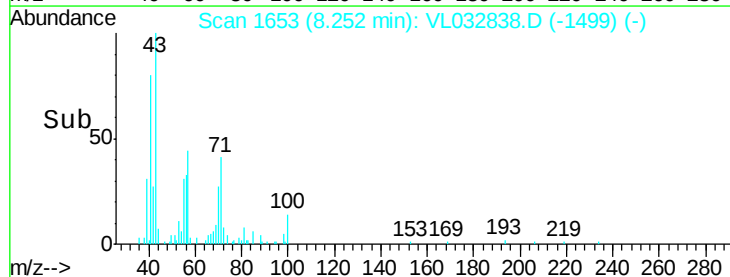
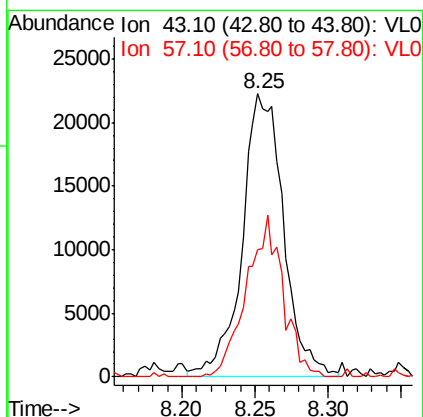
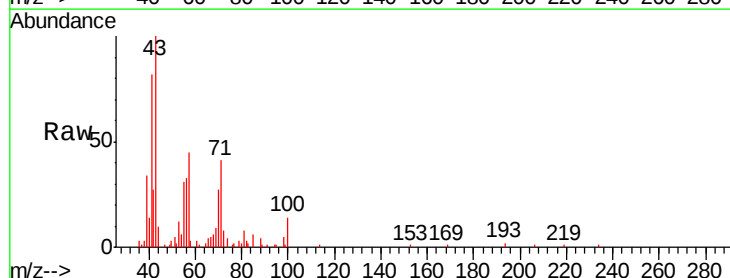
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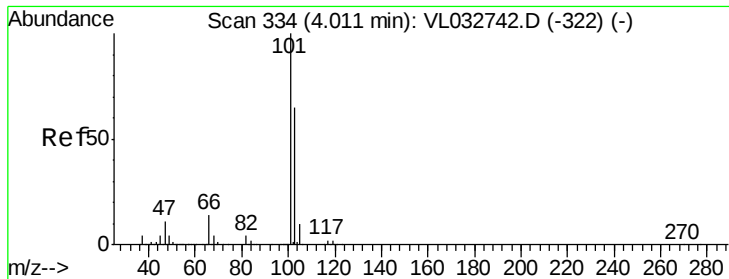
Tgt Ion: 43 Resp: 43453

Ion Ratio Lower Upper

43 100

57 0.0 41.8 62.8#





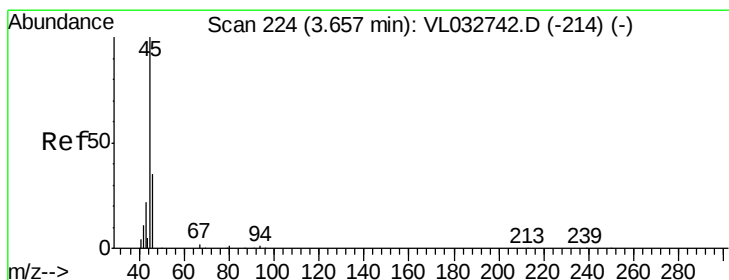
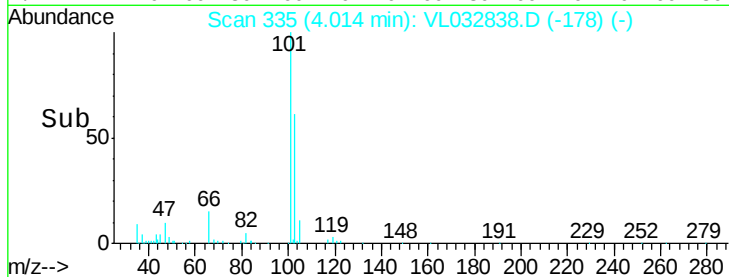
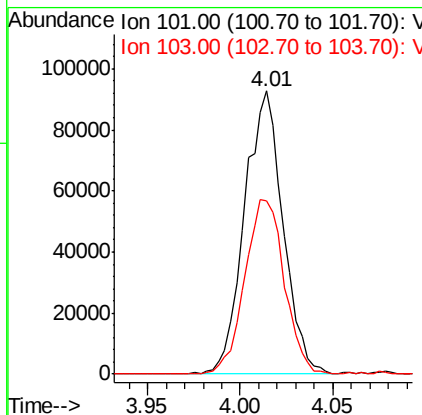
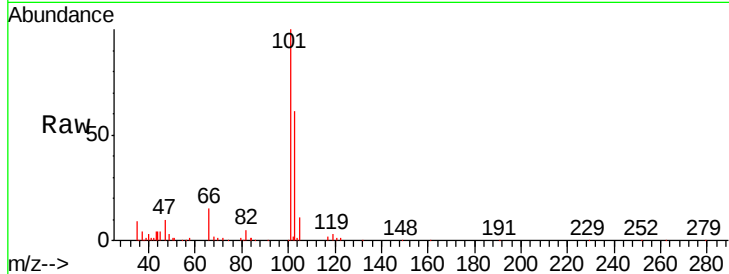
#11
 Trichlorofluoromethane
 Concen: 0.713 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032838.D
 Acq: 29 Nov 2018 17:22

Instrument :
 MSVOA_L
 ClientSampled :
 IAS-4

Tgt Ion	Ratio	Lower	Upper
101	100		
103	61.1	51.6	77.4

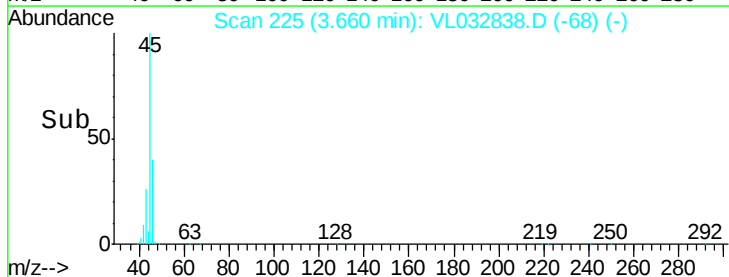
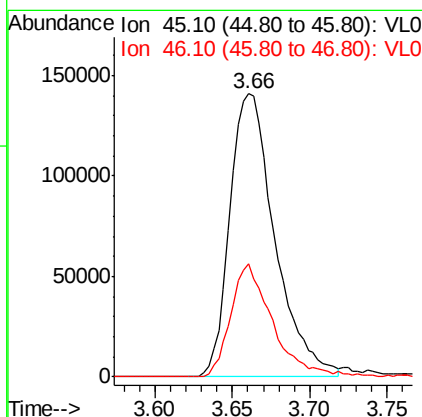
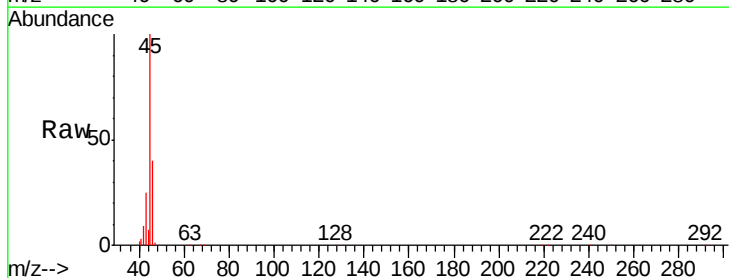
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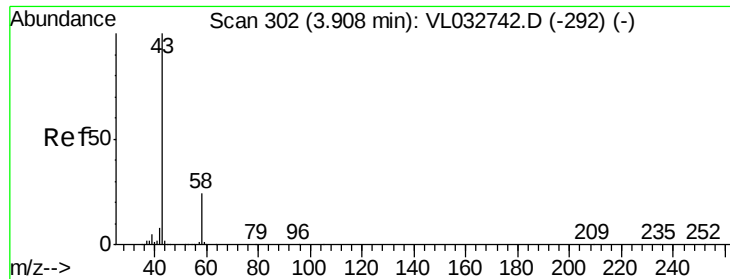
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#13
 Ethanol
 Concen: 19.741 ppbv
 RT: 3.66 min Scan# 225
 Delta R.T. 0.00 min
 Lab File: VL032838.D
 Acq: 29 Nov 2018 17:22

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.2	14.5	57.9





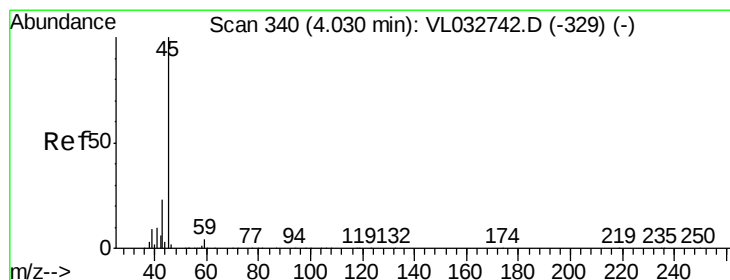
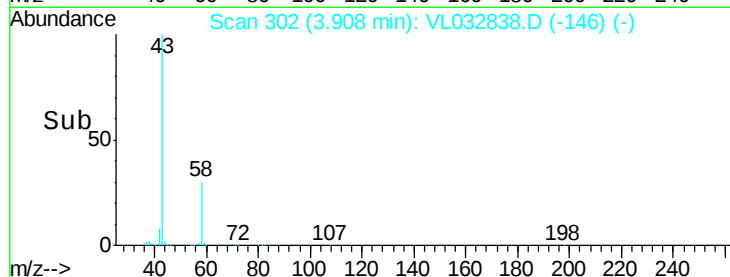
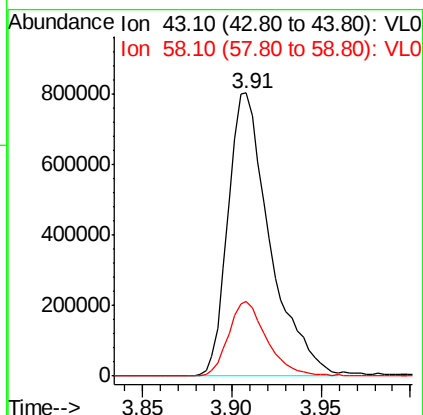
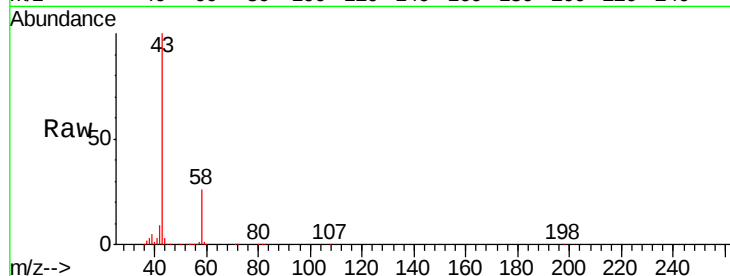
#15
Acetone
Concen: 10.346 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL032838.D
Acq: 29 Nov 2018 17:22

Instrument :
MSVOA_L
ClientSampleId :
IAS-4

Tgt Ion: 43 Resp: 1309900
Ion Ratio Lower Upper
43 100
58 24.4 21.1 31.7

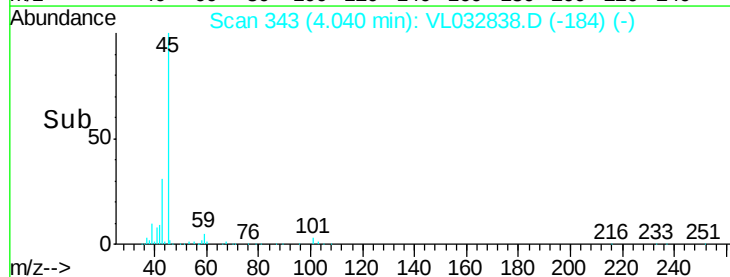
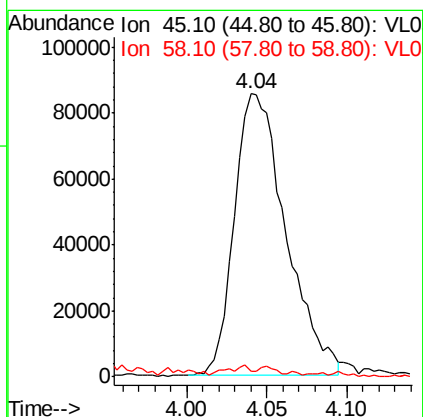
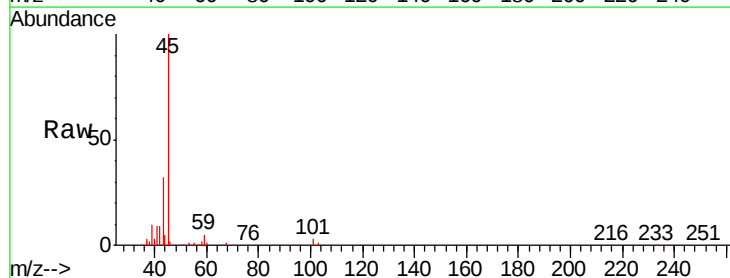
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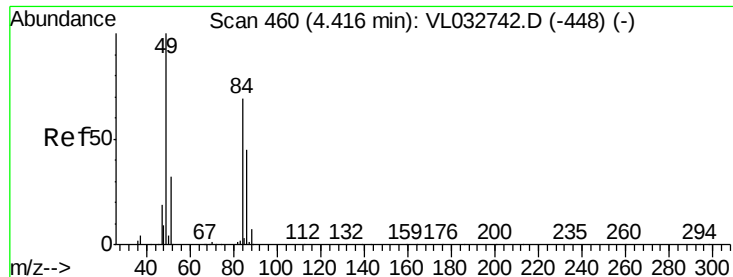
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#19
Isopropyl Alcohol
Concen: 2.230 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.01 min
Lab File: VL032838.D
Acq: 29 Nov 2018 17:22

Tgt Ion: 45 Resp: 188050
Ion Ratio Lower Upper
45 100
58 169.8 1.4 2.0#





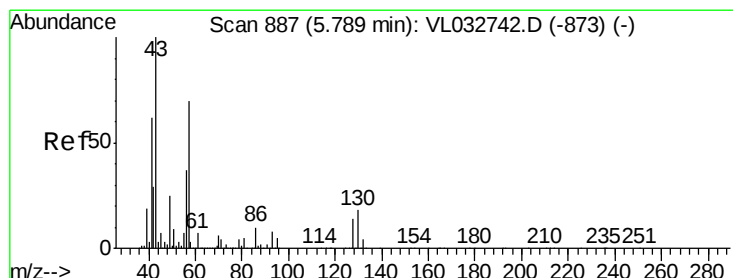
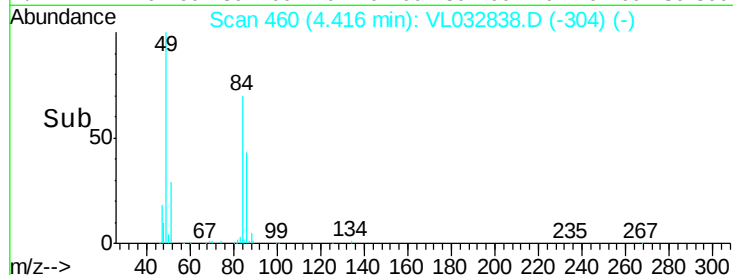
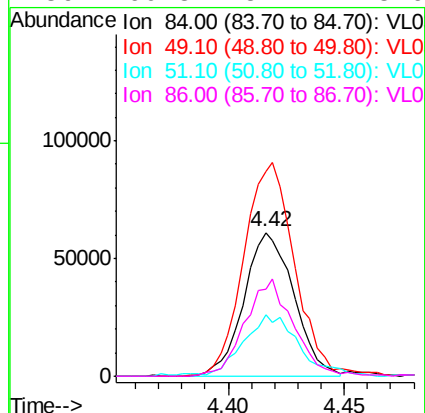
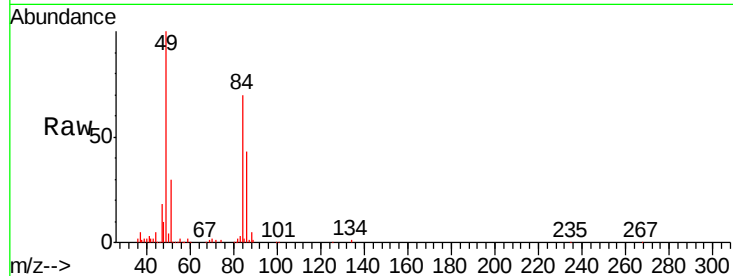
#20
Methylene Chloride
Concen: 1.395 ppbv
RT: 4.42 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL032838.D
Acq: 29 Nov 2018 17:22

Instrument :
MSVOA_L
ClientSampled :
IAS-4

Tgt Ion:	84	Resp:	91457
Ion	Ratio	Lower	Upper
84	100		
49	142.2	115.8	173.6
51	41.2	36.9	55.3
86	60.8	52.4	78.6

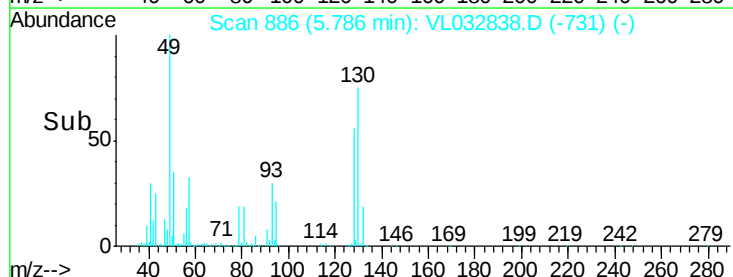
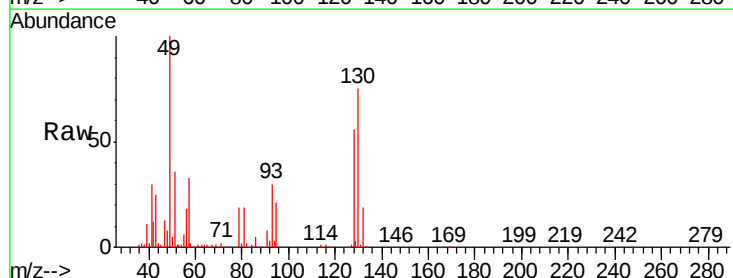
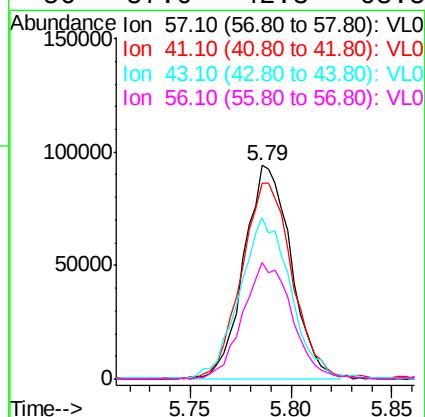
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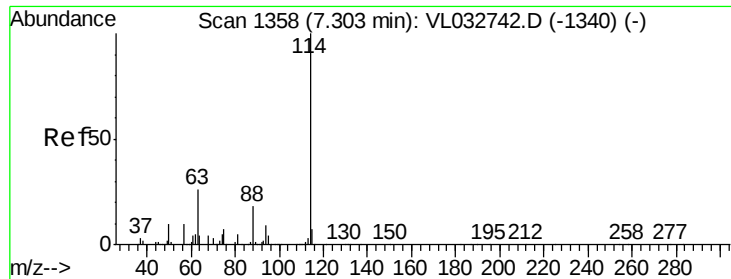
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#26
Hexane
Concen: 1.172 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032838.D
Acq: 29 Nov 2018 17:22

Tgt Ion:	57	Resp:	153910
Ion	Ratio	Lower	Upper
57	100		
41	99.3	70.3	105.5
43	82.1	174.0	261.0#
56	57.0	42.3	63.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VL032838.D

Acq: 29 Nov 2018 17:22

Instrument :

MSVOA_L

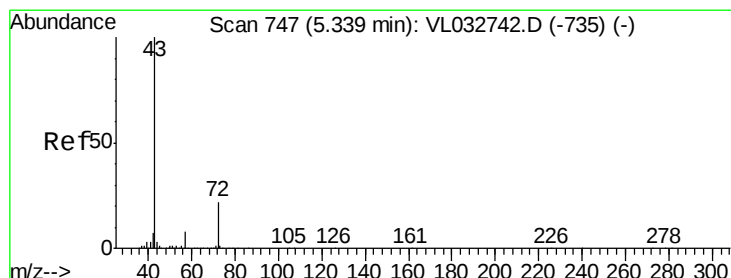
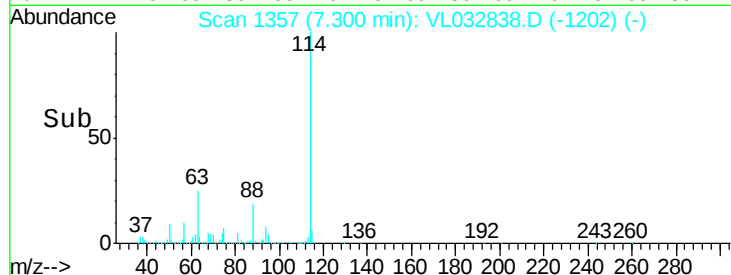
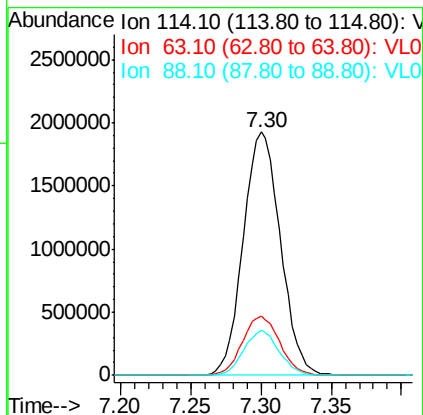
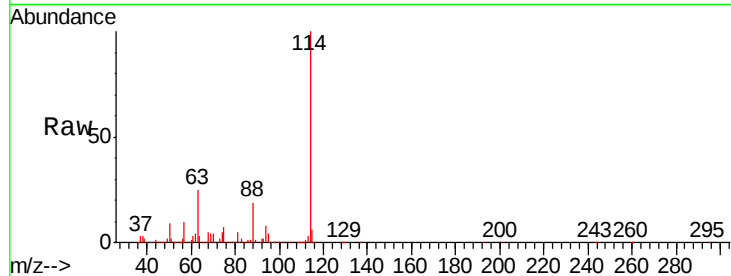
ClientSampleId :

IAS-4

Tgt Ion:	114	Resp:	3563100
Ion	Ratio	Lower	Upper
114	100		
63	24.6	20.9	31.3
88	17.7	14.4	21.6

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#34

2-Butanone

Concen: 1.817 ppbv

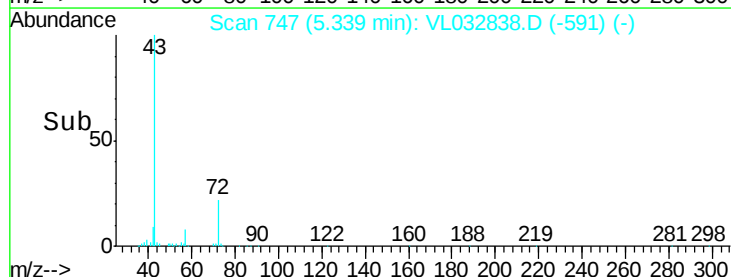
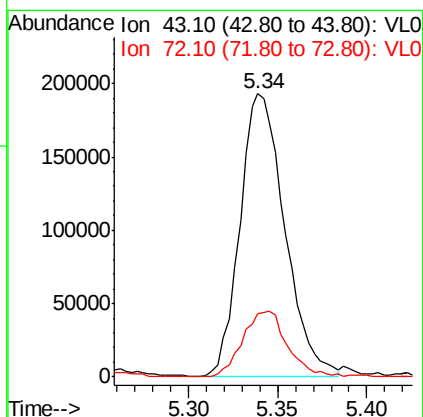
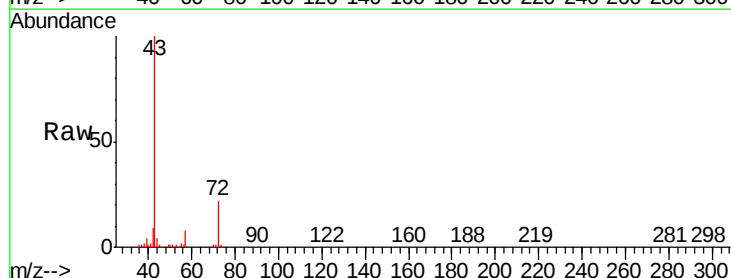
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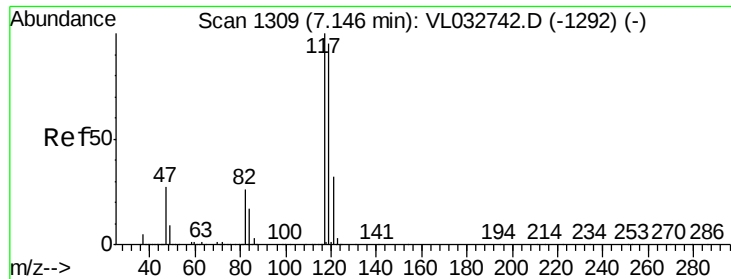
Delta R.T. 0.00 min

Lab File: VL032838.D

Acq: 29 Nov 2018 17:22

Tgt Ion:	43	Resp:	335872
Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.4	27.6





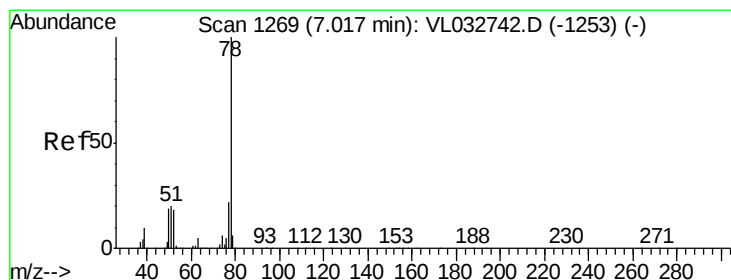
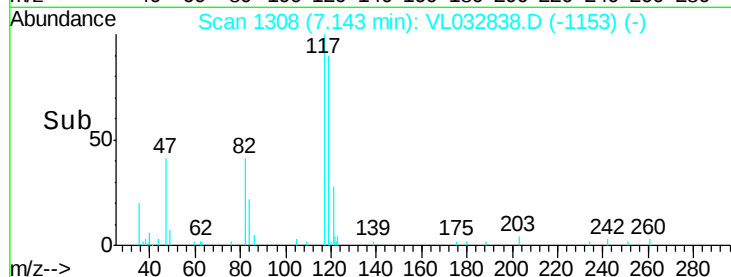
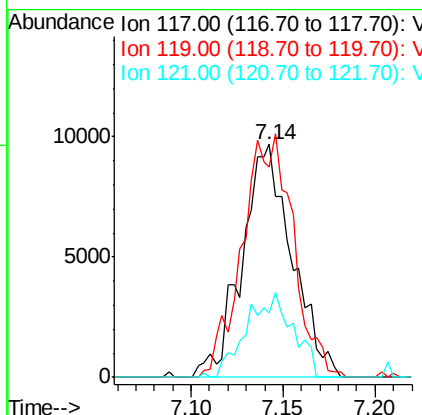
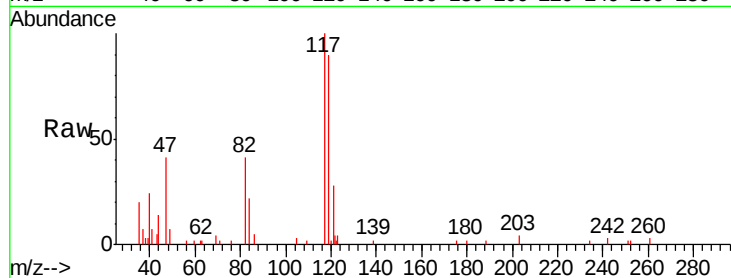
#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 7.14 min Scan# 1308
Delta R.T. -0.00 min
Lab File: VL032838.D
Acq: 29 Nov 2018 17:22

Instrument :
MSVOA_L
ClientSampled :
IAS-4

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	18278		
119	90.4	76.1	114.1	
121	27.9	25.4	38.0	

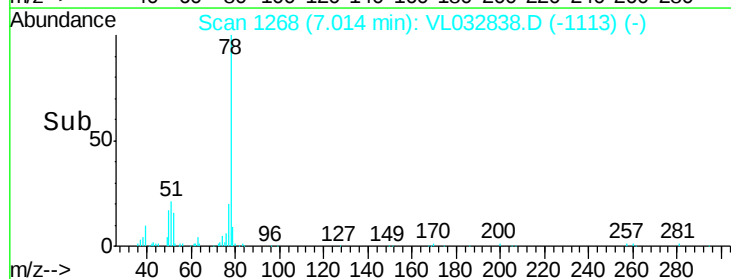
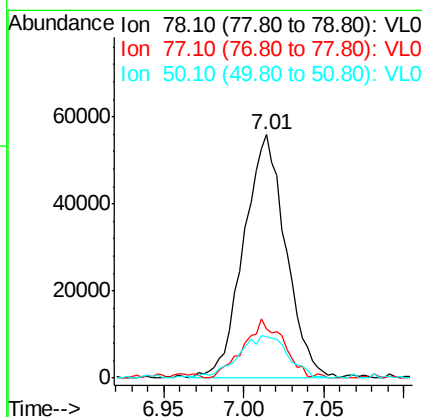
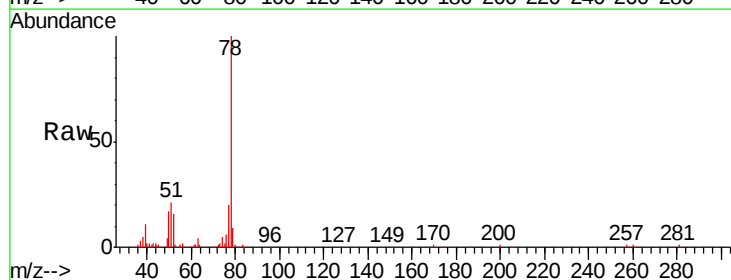
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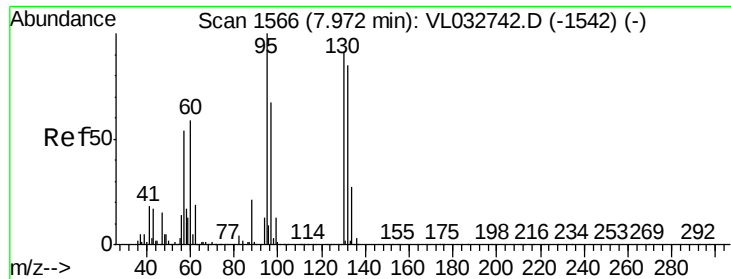
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#36
Benzene
Concen: 0.356 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. -0.00 min
Lab File: VL032838.D
Acq: 29 Nov 2018 17:22

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	101057		
77	20.3	17.8	26.8	
50	16.1	15.4	23.0	





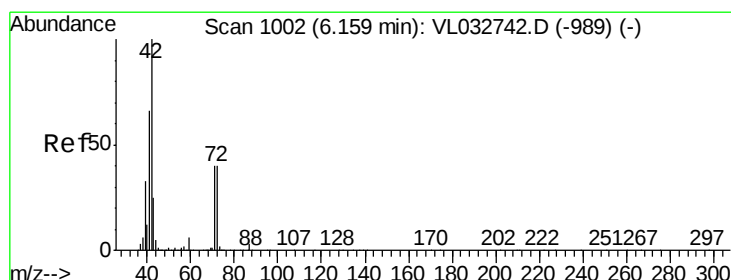
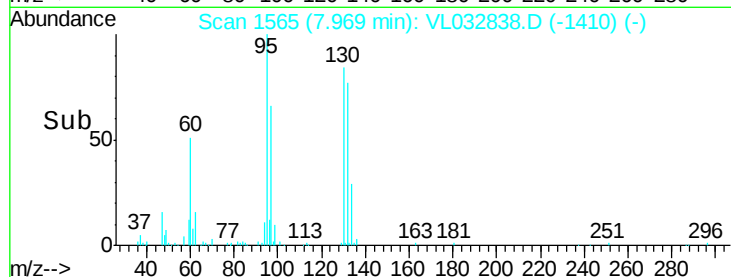
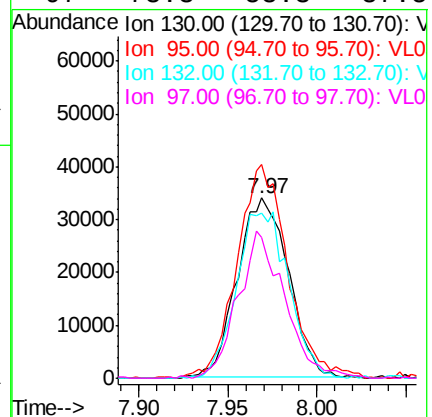
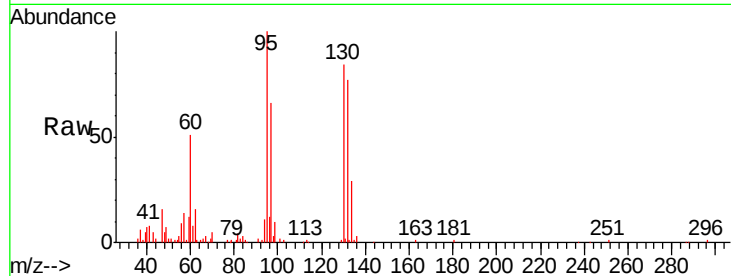
#38
 Trichloroethene
 Concen: 0.589 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. -0.00 min
 Lab File: VL032838.D
 Acq: 29 Nov 2018 17:22

Instrument :
 MSVOA_L
 ClientSampled :
 IAS-4

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	67661		
95	115.9	87.7	131.5	
132	92.7	74.6	111.8	
97	78.3	58.3	87.5	

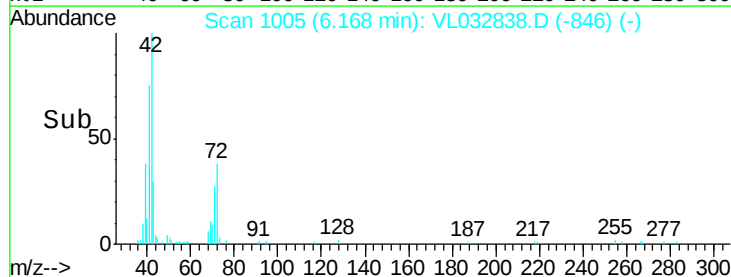
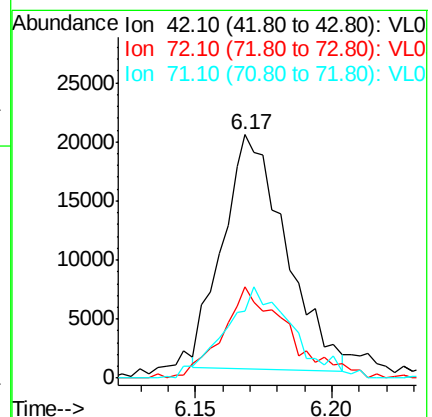
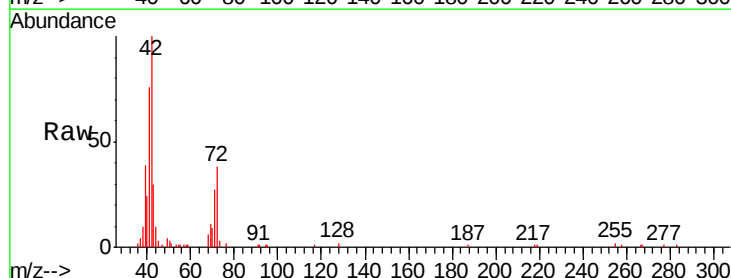
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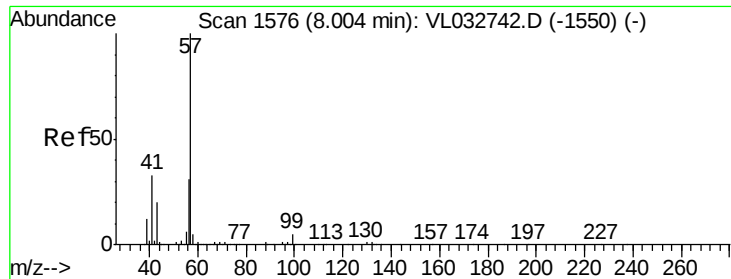
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#41
 Tetrahydrofuran
 Concen: 0.299 ppbv
 RT: 6.17 min Scan# 1005
 Delta R.T. 0.01 min
 Lab File: VL032838.D
 Acq: 29 Nov 2018 17:22

Tgt Ion	Ratio	Resp	Lower	Upper
42	100	31731		
72	41.2	32.4	48.6	
71	41.2	31.6	47.4	





#44

2,2,4-Trimethylpentane

Concen: 0.255 ppbv

RT: 8.00 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VL032838.D

Acq: 29 Nov 2018 17:22

Instrument :

MSVOA_L

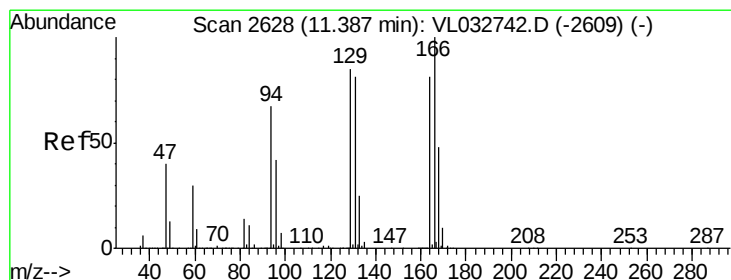
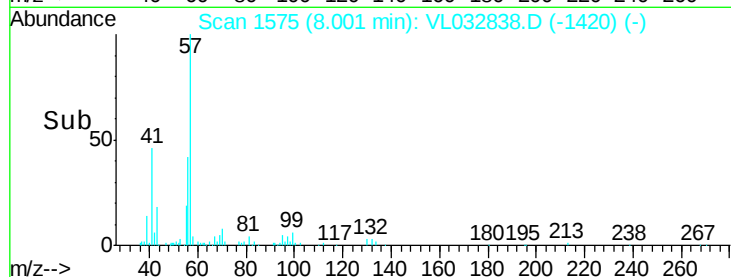
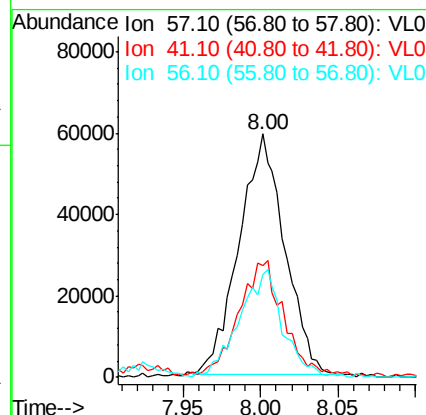
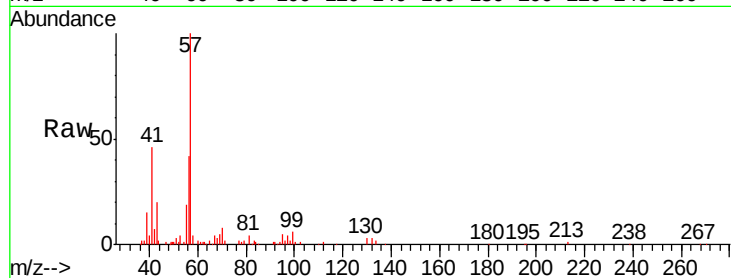
ClientSampleId :

IAS-4

Tgt Ion	Ratio	Lower	Upper
57	100		
41	49.8	26.6	39.8#
56	43.5	24.8	37.2#

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#52

Tetrachloroethene

Concen: 0.835 ppbv m

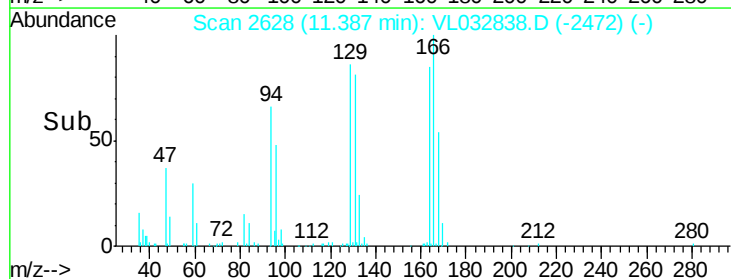
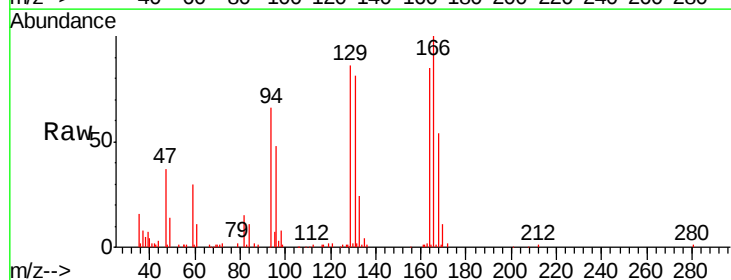
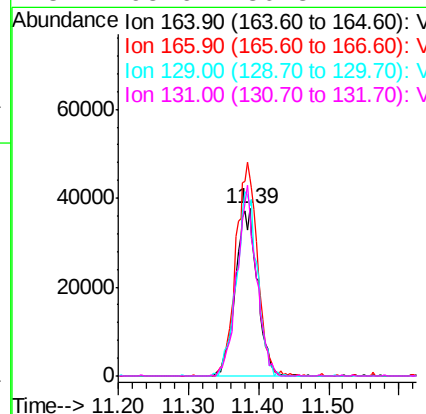
RT: 11.39 min Scan# 2628

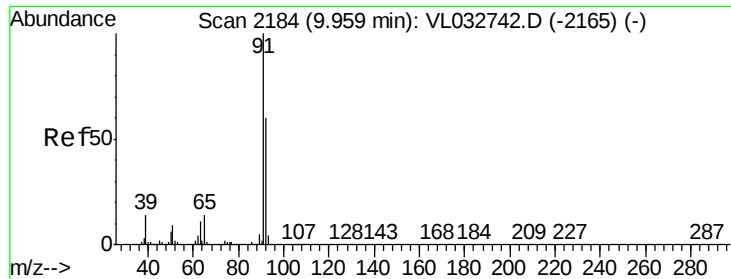
Delta R.T. 0.00 min

Lab File: VL032838.D

Acq: 29 Nov 2018 17:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	117.8	99.3	148.9
129	101.5	83.9	125.9
131	95.6	80.8	121.2





#53

Toluene

Concen: 4.058 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. 0.00 min

Lab File: VL032838.D

Acq: 29 Nov 2018 17:22

Instrument :

MSVOA_L

ClientSampled :

IAS-4

Tgt Ion: 91 Resp: 1201214

Ion Ratio Lower Upper

91 100

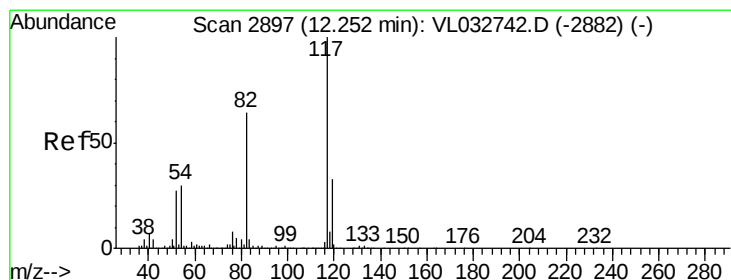
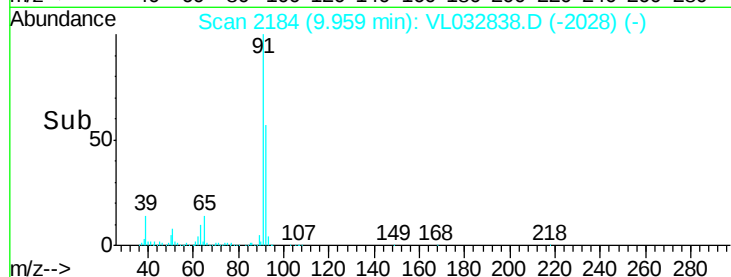
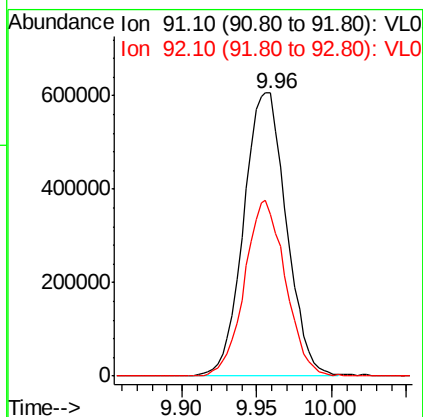
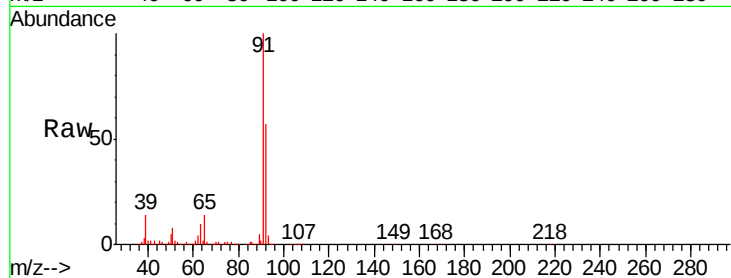
92 59.8 47.9 71.9

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032838.D

Acq: 29 Nov 2018 17:22

Tgt Ion: 117 Resp: 3350599

Ion Ratio Lower Upper

117 100

82 63.3 51.0 76.6

119 32.6 28.0 42.0

