

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033503.D
 Acq On : 29 Mar 2019 15:36
 Operator : SY/AP
 Sample : K2042-17DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3-IN-CAFEDUP

Manual Integrations
 APPROVED

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 4/1/2019 4:03:11 AM

Quant Time: Mar 30 02:01:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	851056	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1904601	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1904333	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1481957	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	44555	0.359	ppbv	97
3) Chlorodifluoromethane	3.01	51	25134m	0.257	ppbv	
4) Chloromethane	3.17	50	26949	0.520	ppbv	91
9) Propene	3.05	41	42573m	1.035	ppbv	
11) Trichlorofluoromethane	4.00	101	36621m	0.239	ppbv	
13) Ethanol	3.65	45	1089751	102.347	ppbv	65
15) Acetone	3.90	43	597194	5.836	ppbv	100
19) Isopropyl Alcohol	4.03	45	118817	1.836	ppbv #	93
20) Methylene Chloride	4.41	84	300340	6.914	ppbv	93
26) Hexane	5.78	57	488315	5.784	ppbv #	41
29) Chloroform	5.84	83	22379	0.155	ppbv	94
34) 2-Butanone	5.33	43	33062	0.289	ppbv	98
35) Carbon Tetrachloride	7.13	117	8851	0.066	ppbv #	89
36) Benzene	7.00	78	33916	0.212	ppbv	99
53) Toluene	9.94	91	802106	4.319	ppbv	99

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

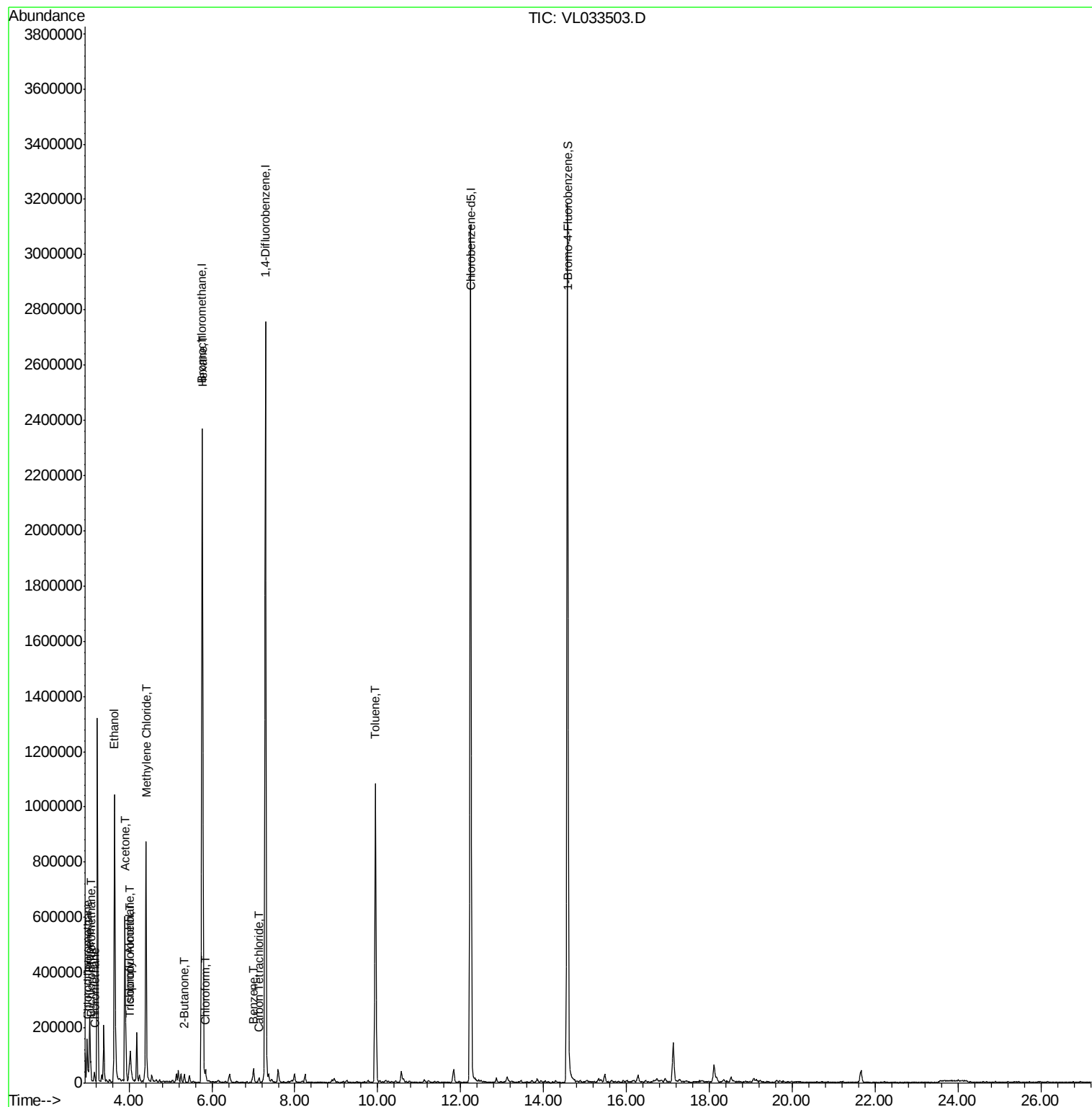
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032919\
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Quant Time: Mar 30 02:01:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033503.D

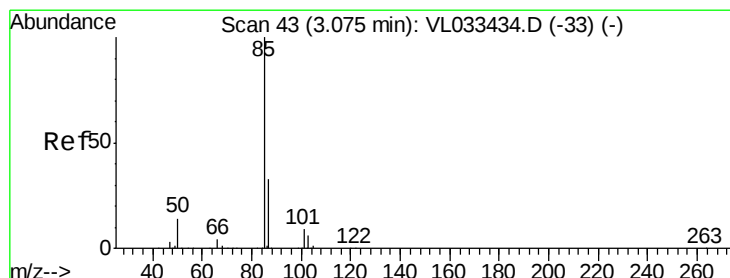
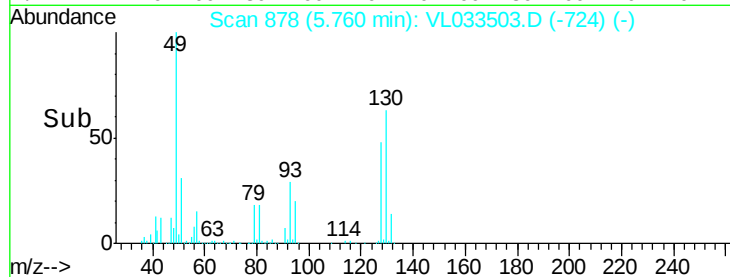
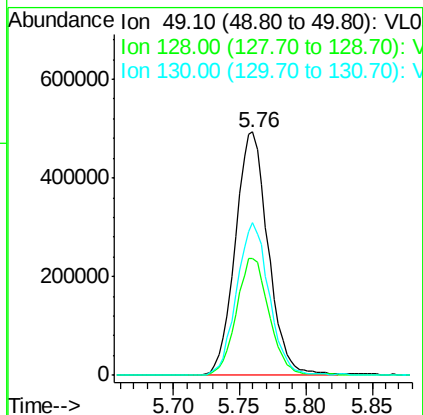
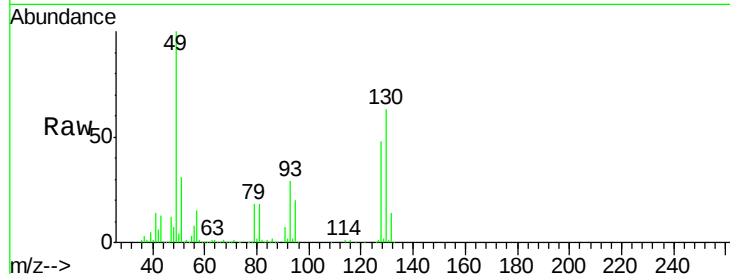
Acq: 29 Mar 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-IN-CAFEDUP

Tot Ion:	49	Resp:	851056
Ion	Ratio	Lower	Upper
49	100		
128	48.3	24.0	72.0
130	62.6	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.359 ppbv

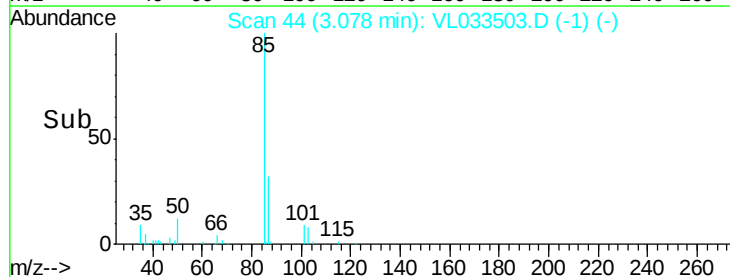
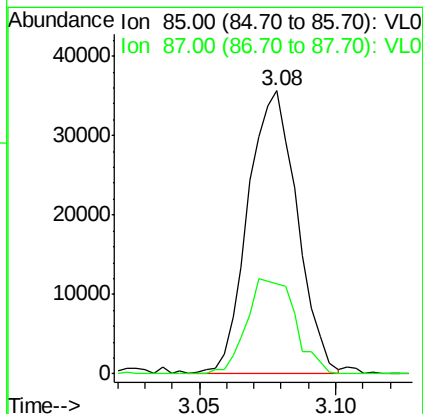
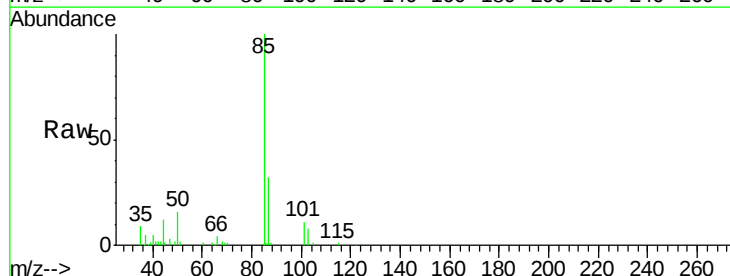
RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Tgt Ion:	85	Resp:	44555
Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.7	40.1





#3

Chlorodifluoromethane

Concen: 0.257 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-IN-CAFEDUP

Tot Ion: 51 Resp: 25134

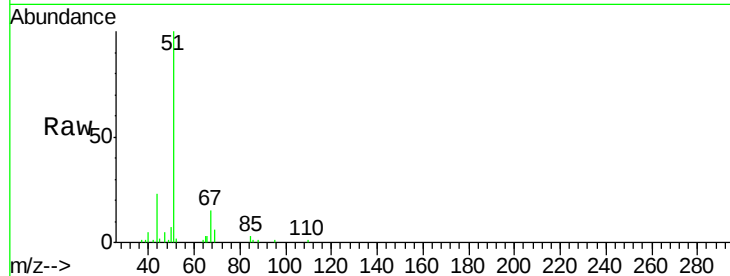
Ion Ratio Lower Upper

51 100

67 26.0 15.7 23.5#

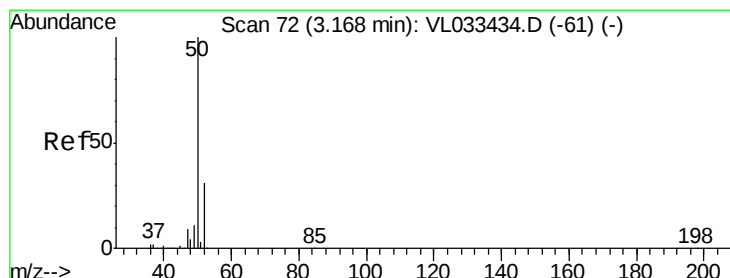
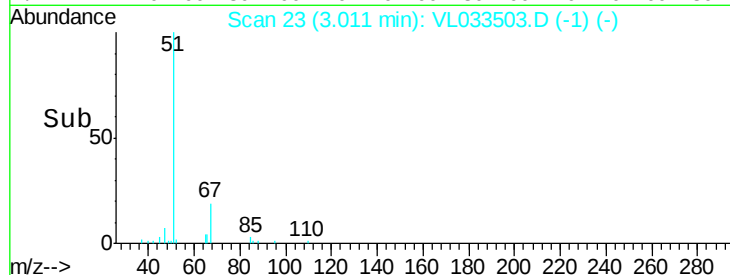
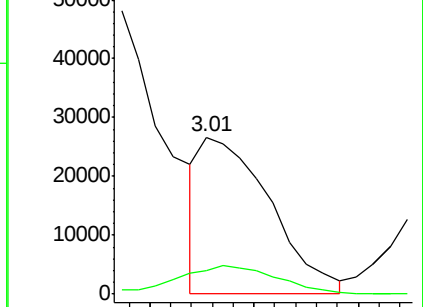
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.520 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL033503.D

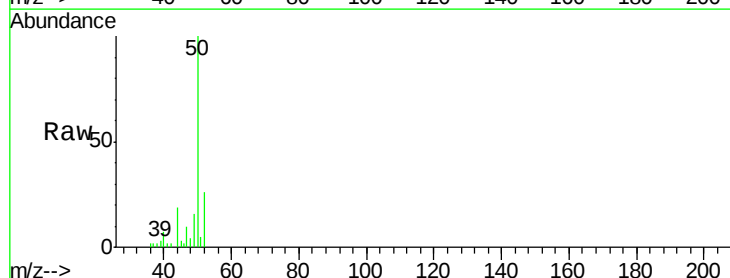
Acq: 29 Mar 2019 15:36

Tgt Ion: 50 Resp: 26949

Ion Ratio Lower Upper

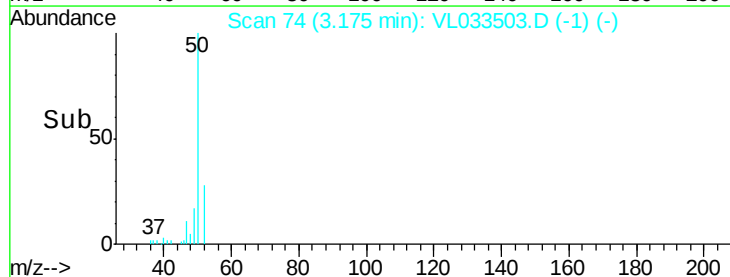
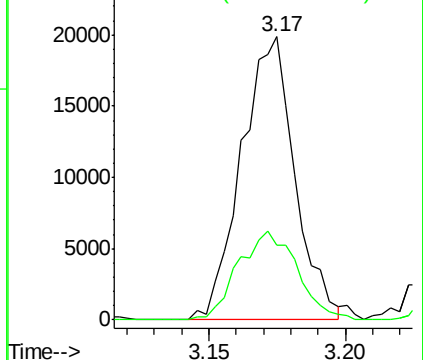
50 100

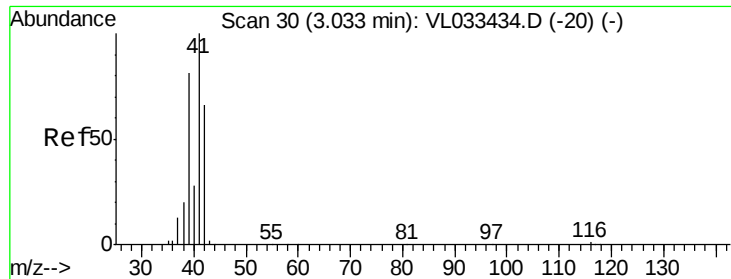
52 26.3 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.035 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-IN-CAFEDUP

Tot Ion: 41 Resp: 42573

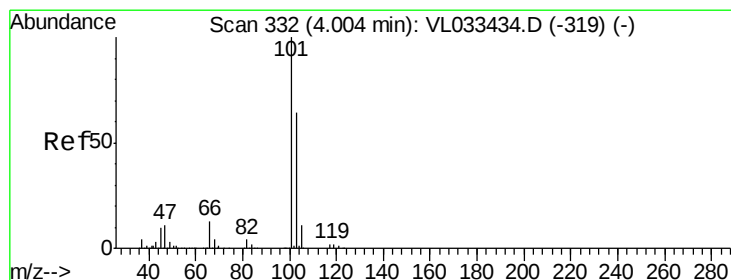
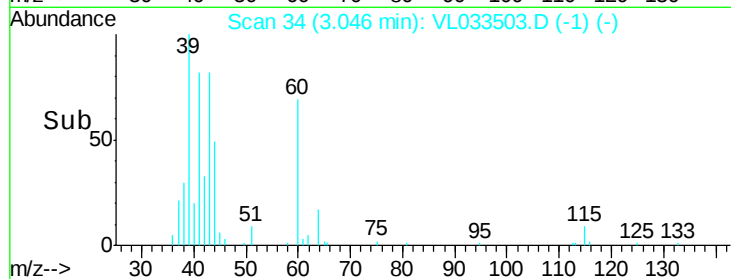
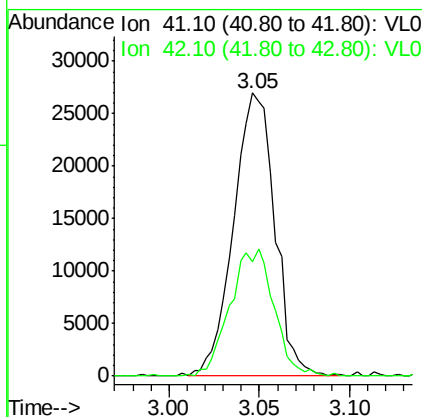
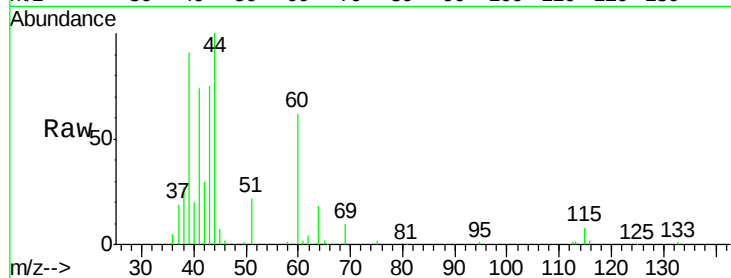
Ion Ratio Lower Upper

41 100

42 545.0 53.9 80.9#

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#11

Trichlorofluoromethane

Concen: 0.239 ppbv m

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033503.D

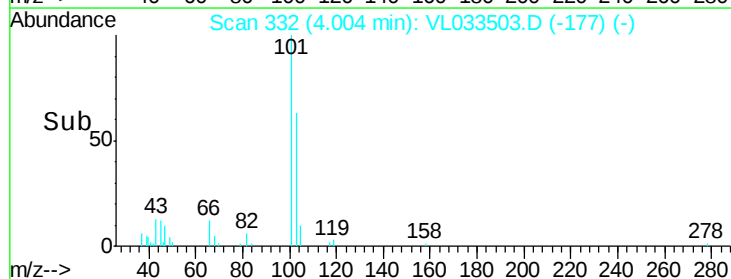
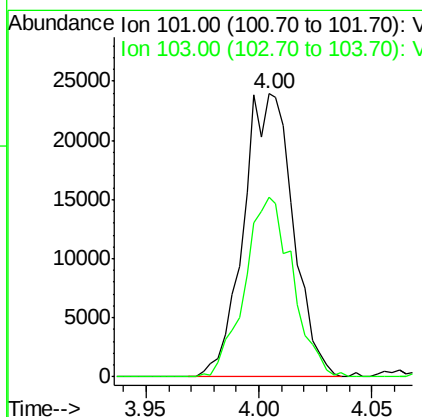
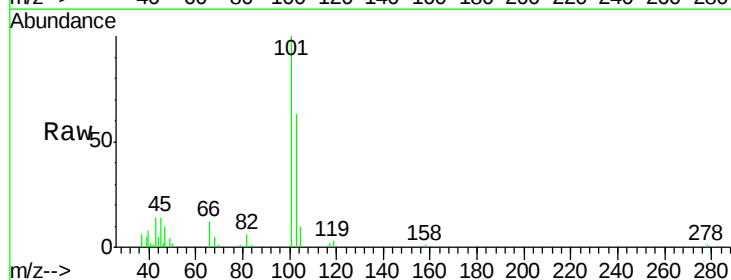
Acq: 29 Mar 2019 15:36

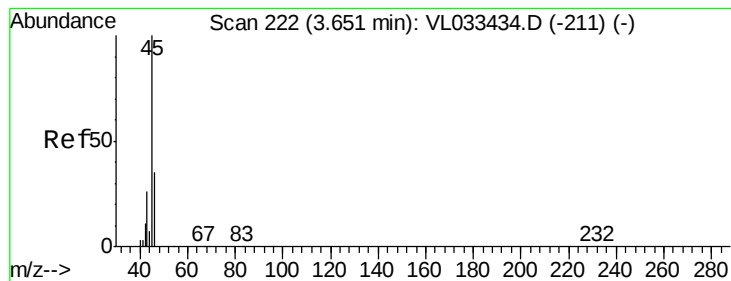
Tgt Ion: 101 Resp: 36621

Ion Ratio Lower Upper

101 100

103 63.4 51.3 76.9





#13

Ethanol

Concen: 102.347 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-IN-CAFEDUP

Tot Ion: 45 Resp: 1089751

Ion Ratio Lower Upper

45 100

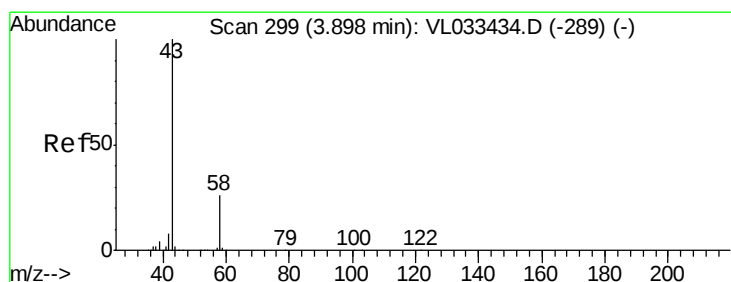
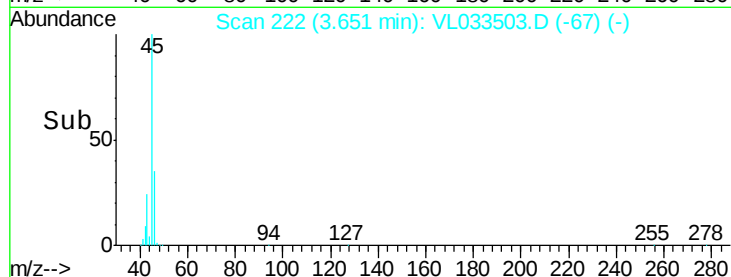
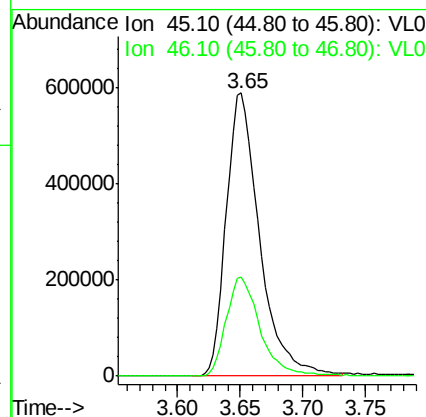
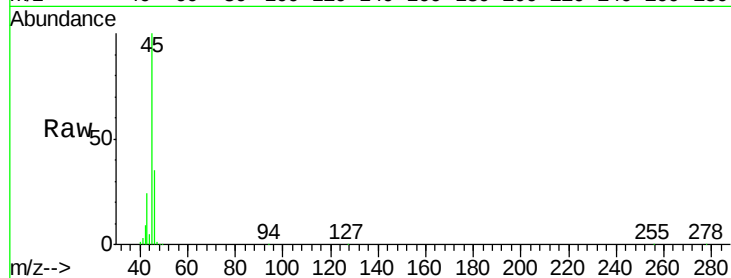
46 36.1 25.4 101.8

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#15

Acetone

Concen: 5.836 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033503.D

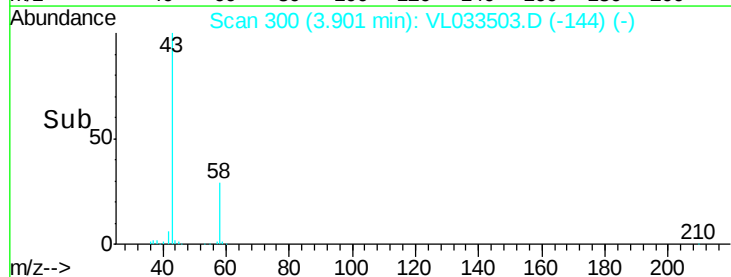
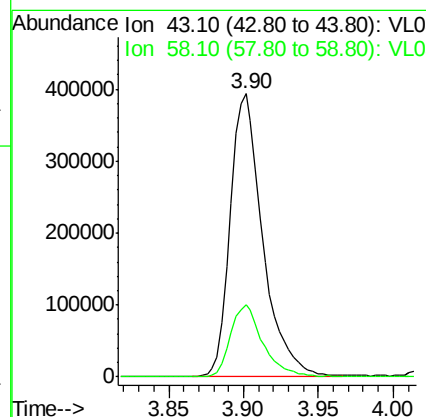
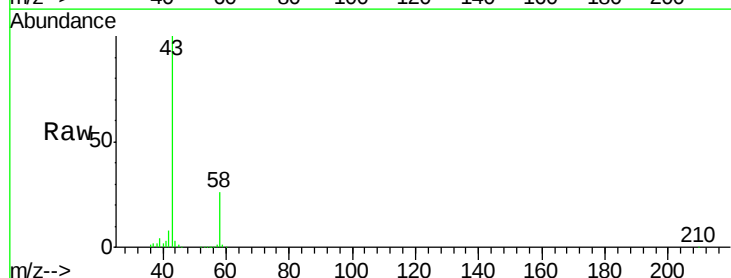
Acq: 29 Mar 2019 15:36

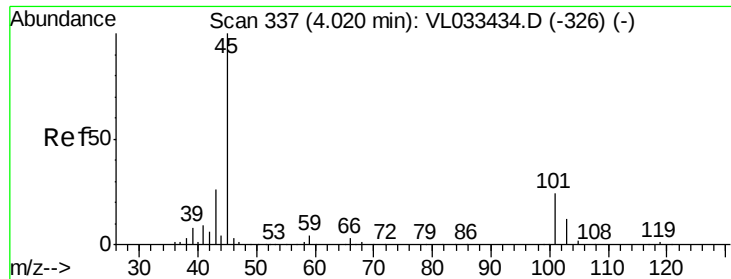
Tgt Ion: 43 Resp: 597194

Ion Ratio Lower Upper

43 100

58 25.6 20.5 30.7





#19

Isopropyl Alcohol

Concen: 1.836 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-IN-CAFEDUP

Tot Ion: 45 Resp: 118817

Ion Ratio Lower Upper

45 100

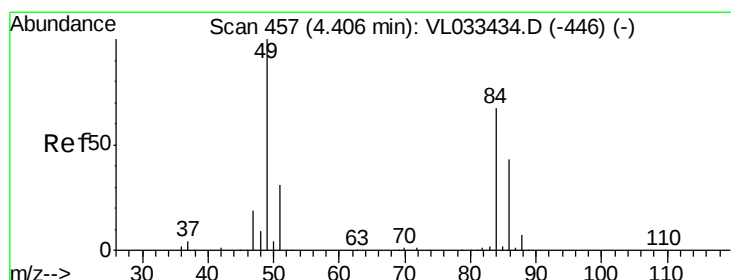
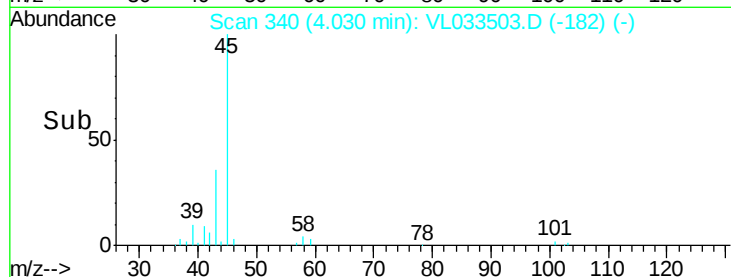
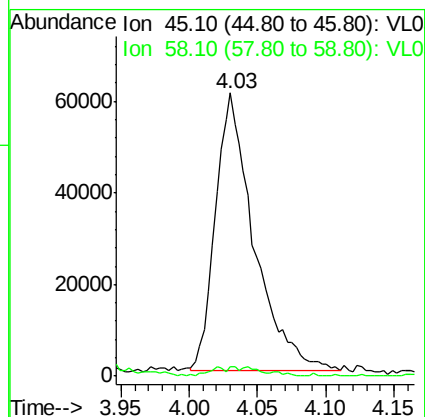
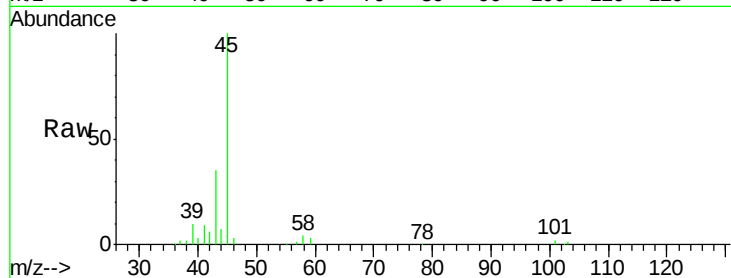
58 4.5 1.4 2.2#

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#20

Methylene Chloride

Concen: 6.914 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Tgt Ion: 84 Resp: 300340

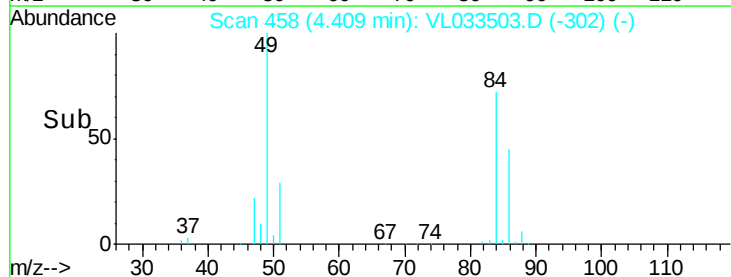
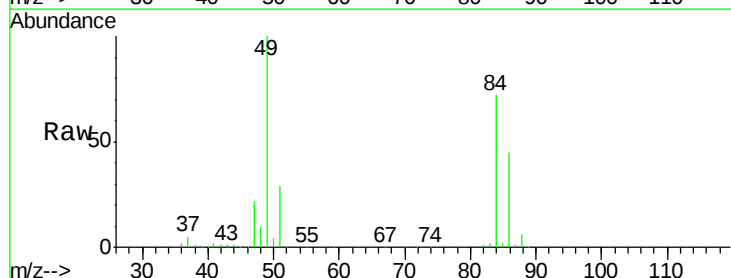
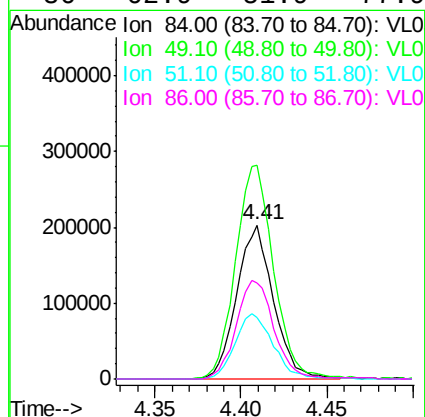
Ion Ratio Lower Upper

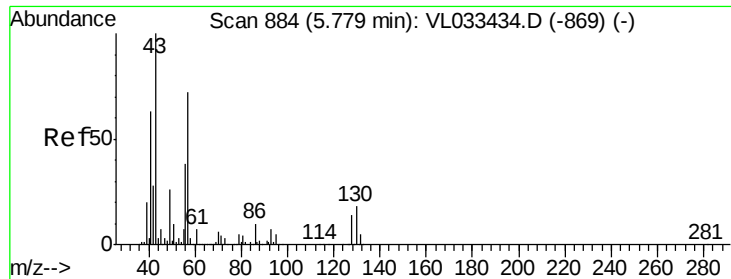
84 100

49 138.8 120.0 180.0

51 39.6 36.7 55.1

86 62.9 51.9 77.9





#26

Hexane

Concen: 5.784 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033503.D

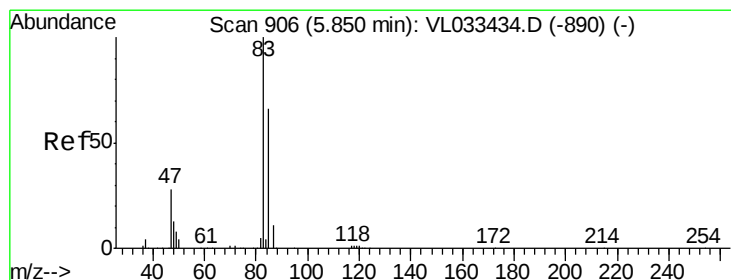
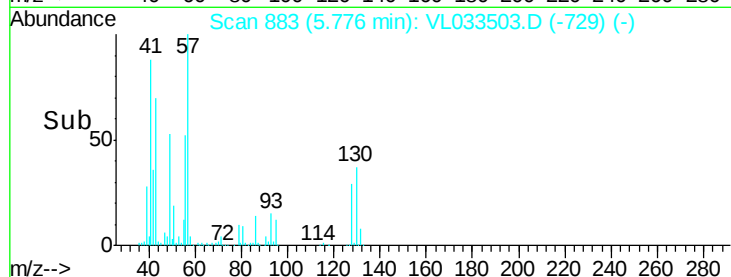
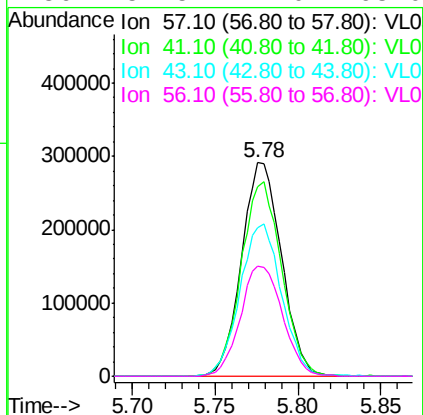
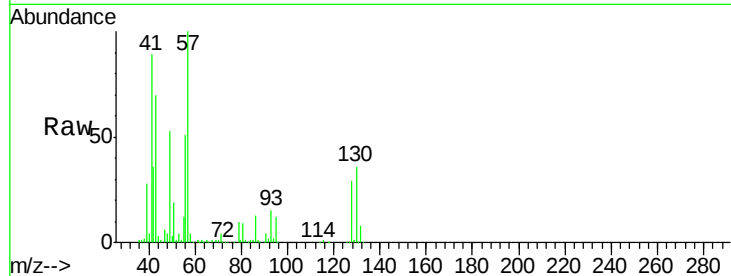
Acq: 29 Mar 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
IAS-3-IN-CAFEDUP

Tot Ion	57	Resp	488315
Ion	Ratio	Lower	Upper
57	100		
41	92.4	70.7	106.1
43	74.5	182.6	274.0#
56	54.5	42.0	63.0

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#29

Chloroform

Concen: 0.155 ppbv

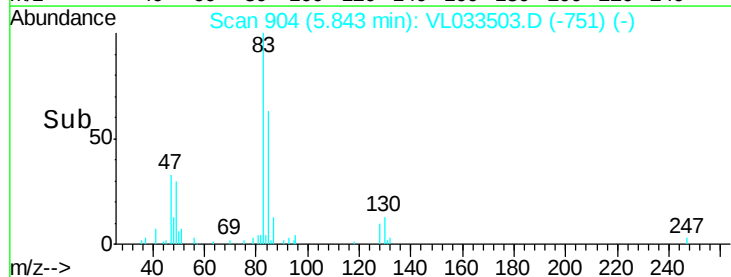
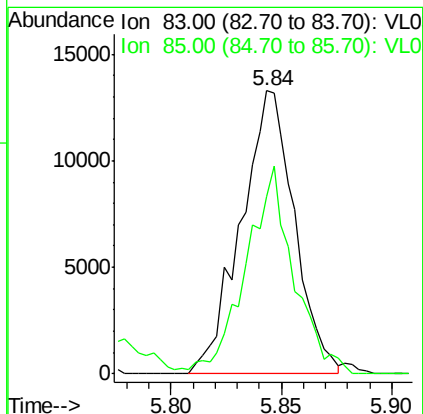
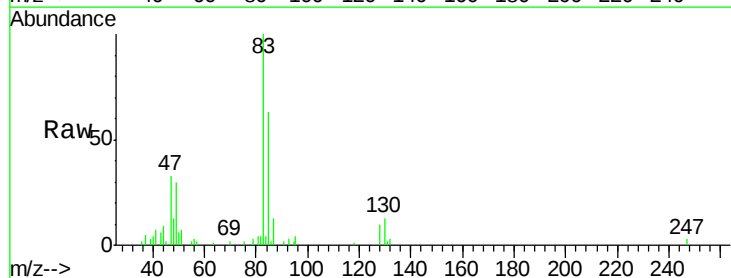
RT: 5.84 min Scan# 904

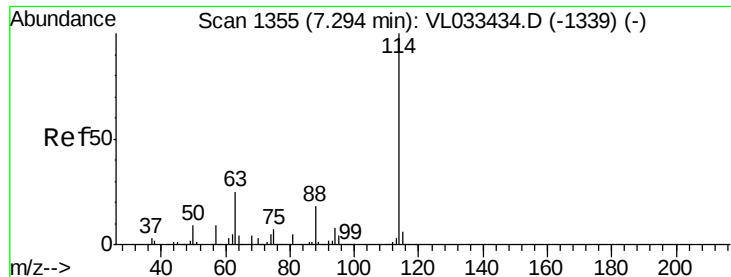
Delta R.T. -0.01 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Tgt Ion	83	Resp	22379
Ion	Ratio	Lower	Upper
83	100		
85	61.0	52.6	79.0





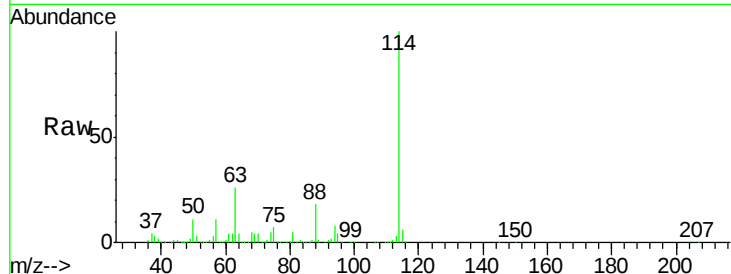
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033503.D
 Acq: 29 Mar 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3-IN-CAFEDUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.5	32.3
88	18.0	14.5	21.7

Manual Integrations
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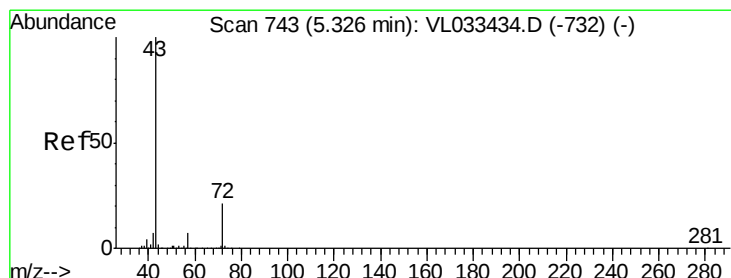
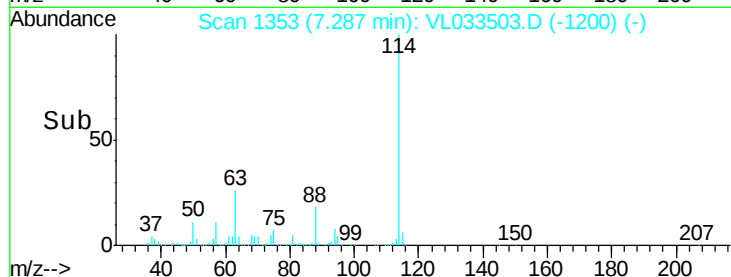
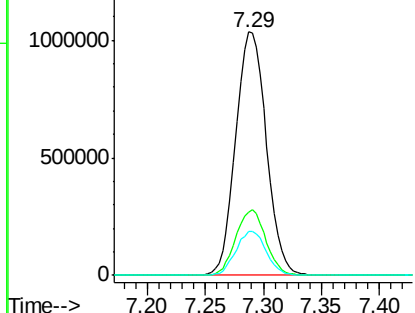
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Abundance Ion 114.10 (113.80 to 114.80): VL0

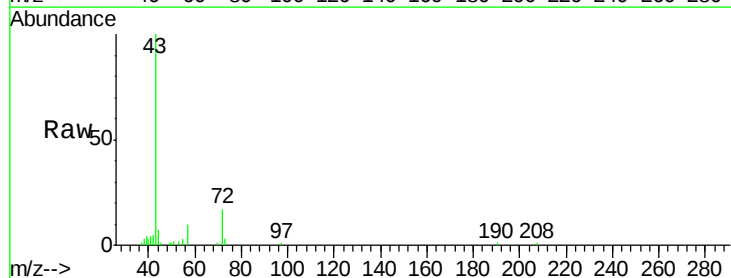
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



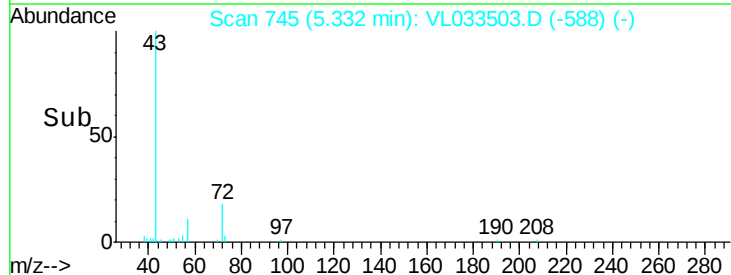
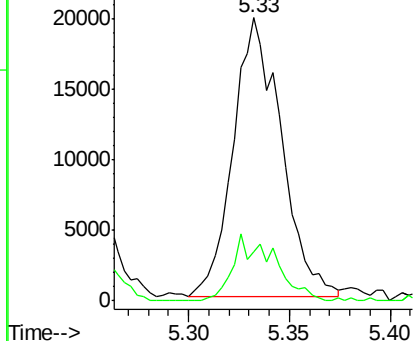
#34
 2-Butanone
 Concen: 0.289 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: VL033503.D
 Acq: 29 Mar 2019 15:36

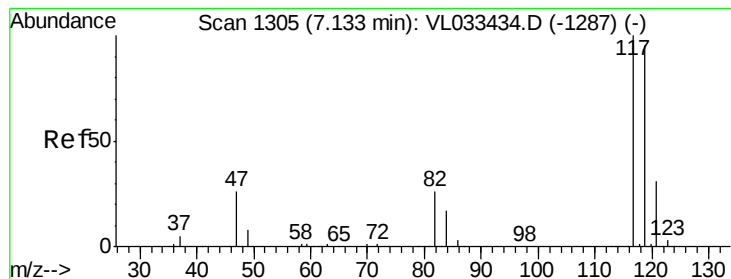
Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.7	17.4	26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.066 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Instrument :

MSVOA_L

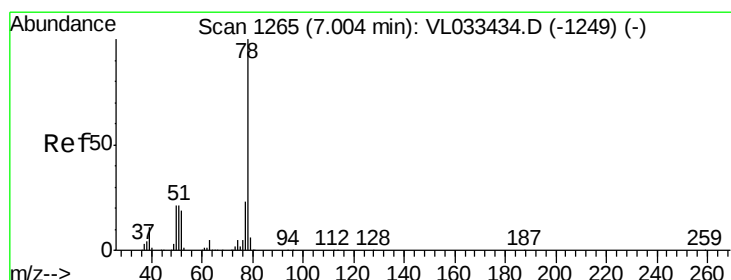
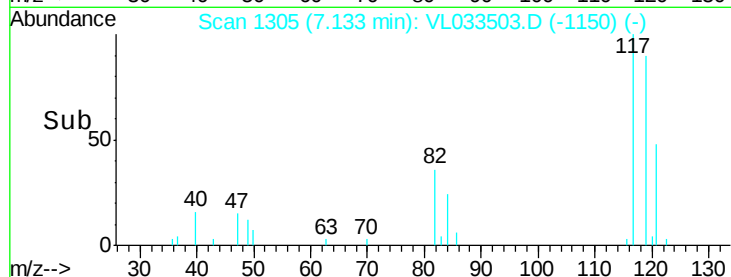
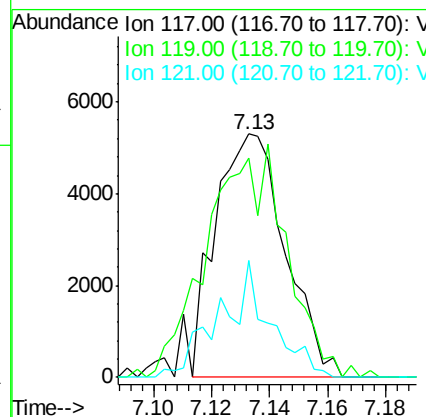
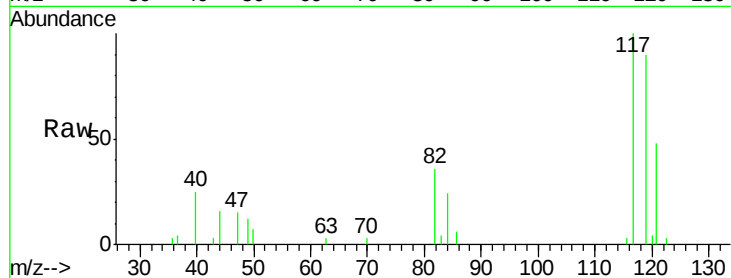
ClientSampleId :

IAS-3-IN-CAFEDUP

Tot Ion:	117	Resp:	8851
Ion	Ratio	Lower	Upper
117	100		
119	90.1	75.8	113.8
121	47.8	24.7	37.1#

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#36

Benzene

Concen: 0.212 ppbv

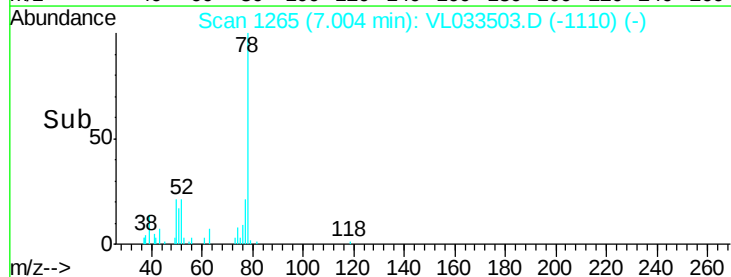
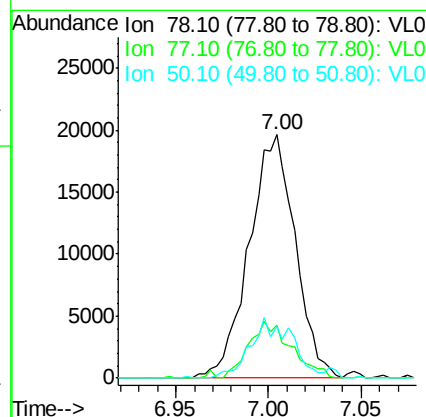
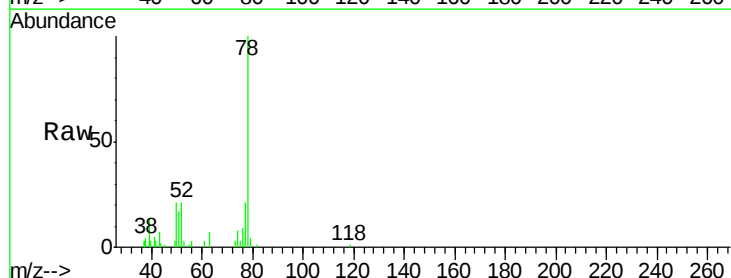
RT: 7.00 min Scan# 1265

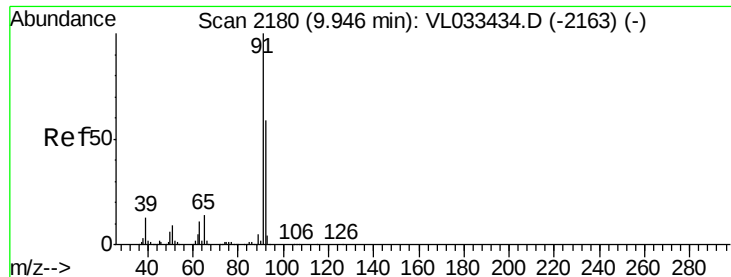
Delta R.T. -0.00 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Tgt Ion:	78	Resp:	33916
Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.1	27.1
50	21.2	16.7	25.1





#53

Toluene

Concen: 4.319 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

IAS-3-IN-CAFEDUP

Tot Ion: 91 Resp: 802106

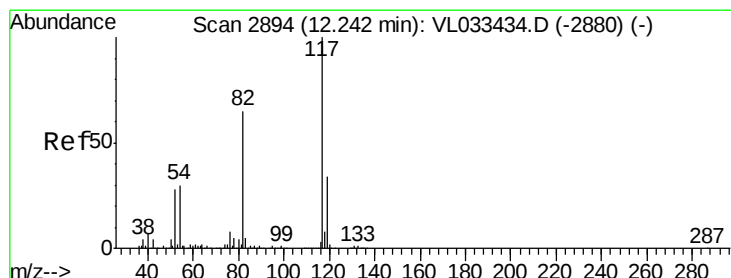
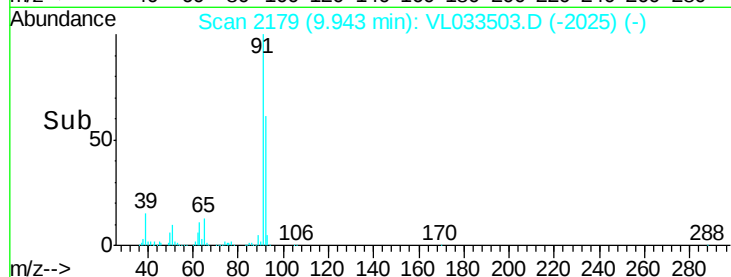
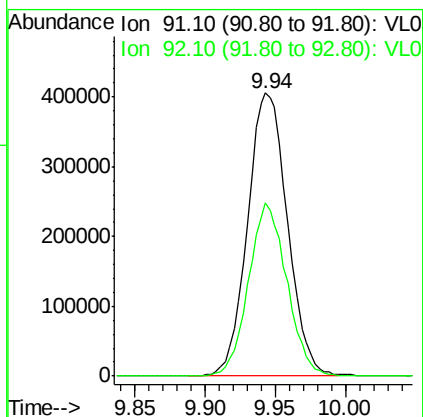
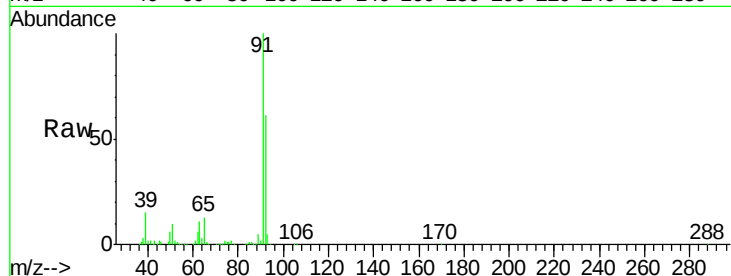
Ion Ratio Lower Upper

91 100

92 58.8 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033503.D

Acq: 29 Mar 2019 15:36

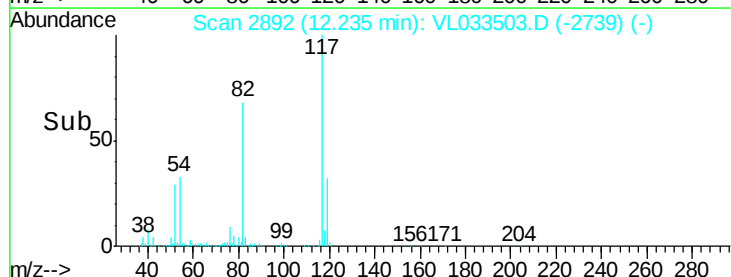
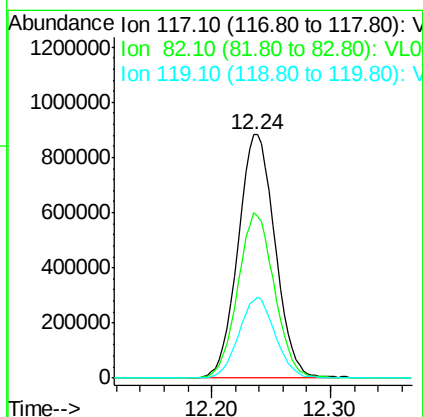
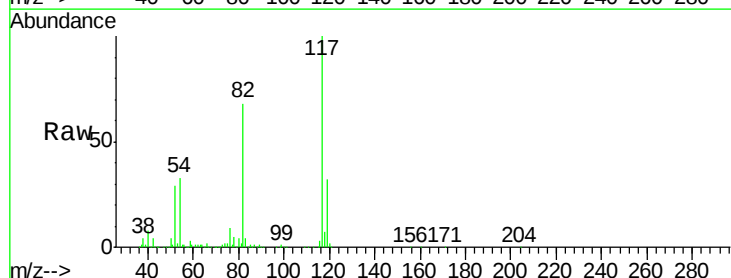
Tgt Ion: 117 Resp: 1904333

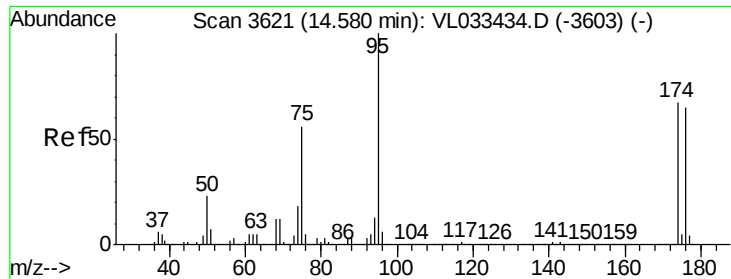
Ion Ratio Lower Upper

117 100

82 67.0 51.5 77.3

119 32.6 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.926 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.00 min
 Lab File: VL033503.D
 Acq: 29 Mar 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-3-IN-CAFEDUP

Tot Ion: 95 Resp: 1481957
 Ion Ratio Lower Upper
 95 100
 174 66.5 52.9 79.3
 175 4.7 3.8 5.6

Manual Integrations
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MMDadoda
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