

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033501.D
 Acq On : 29 Mar 2019 14:14
 Operator : SY/AP
 Sample : K2042-16DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORAGE-RM-BY-THE-CAFE

Quant Time: Mar 30 01:58:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
 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	809819	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2145414	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2113153	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1644037	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

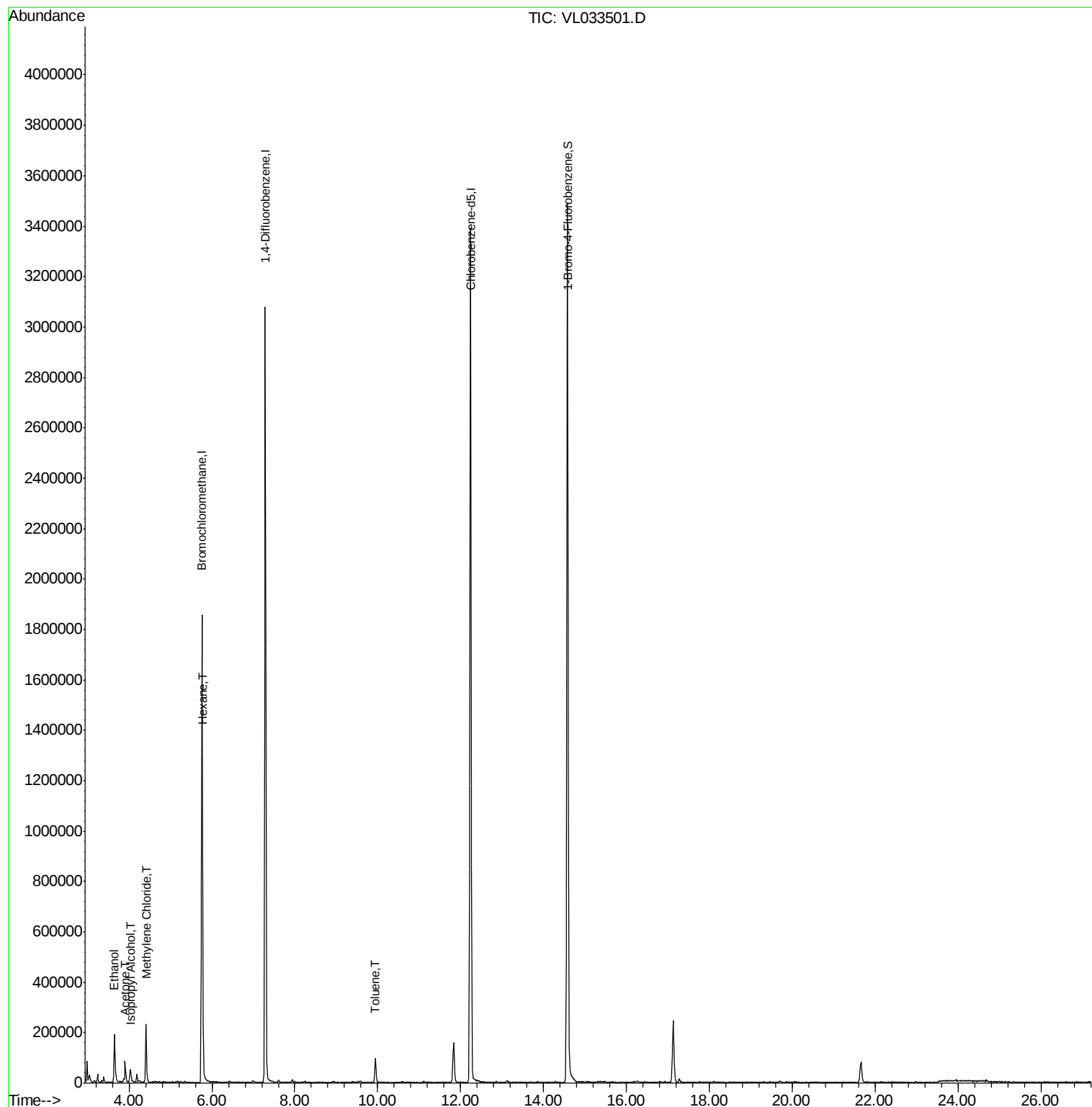
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.64	45	206667	20.398	ppbv	64
15) Acetone	3.90	43	82938	0.852	ppbv	96
19) Isopropyl Alcohol	4.04	45	56964	0.925	ppbv #	90
20) Methylene Chloride	4.41	84	80702	1.952	ppbv	97
26) Hexane	5.78	57	64296	0.800	ppbv #	41
53) Toluene	9.95	91	68980	0.330	ppbv	100

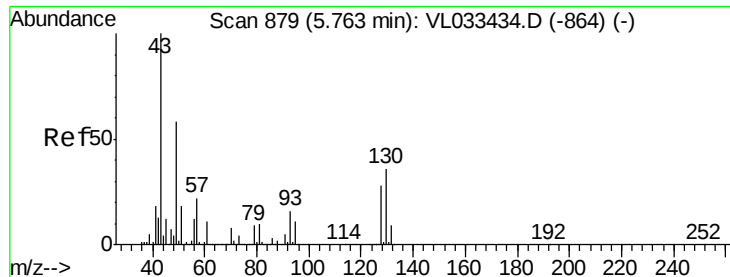
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033501.D

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ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

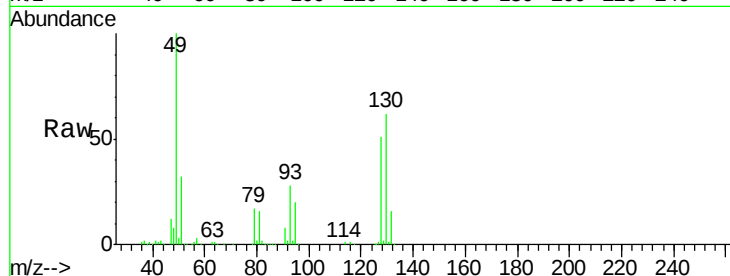
Tot Ion: 49 Resp: 809819

Ion Ratio Lower Upper

49 100

128 50.2 24.0 72.0

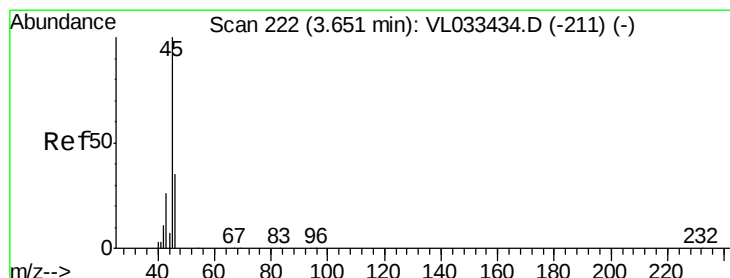
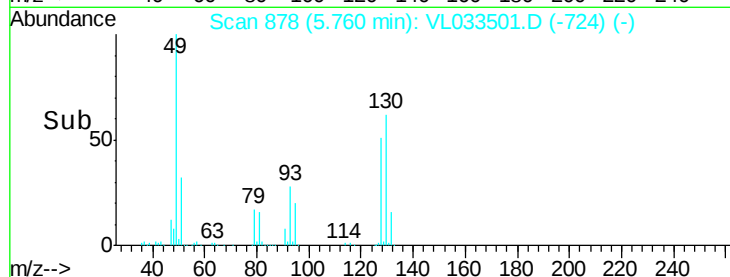
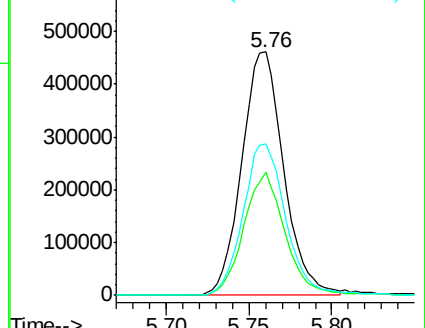
130 64.0 31.2 93.6



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



#13

Ethanol

Concen: 20.398 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033501.D

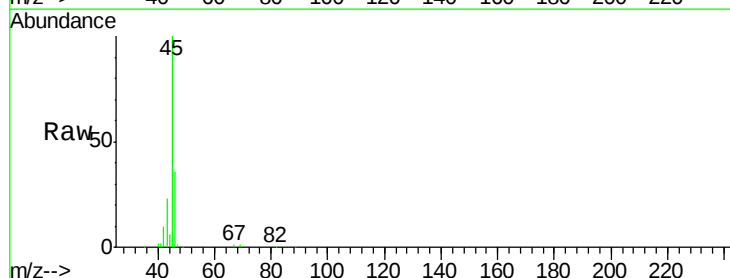
Acq: 29 Mar 2019 14:14

Tgt Ion: 45 Resp: 206667

Ion Ratio Lower Upper

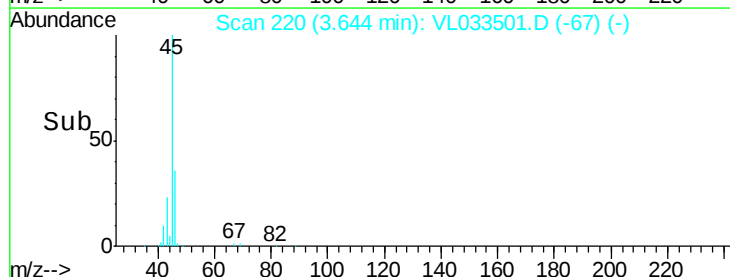
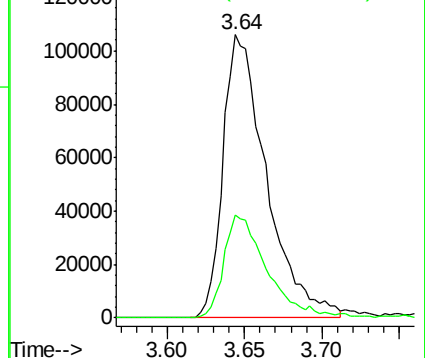
45 100

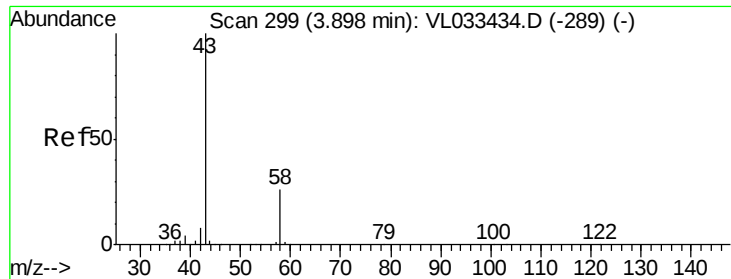
46 35.8 25.4 101.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.852 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033501.D

Acq: 29 Mar 2019 14:14

Instrument :

MSVOA_L

ClientSampleId :

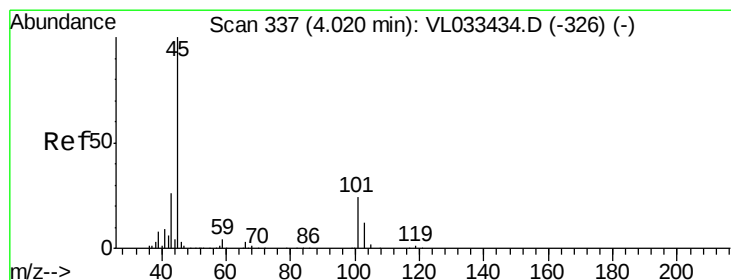
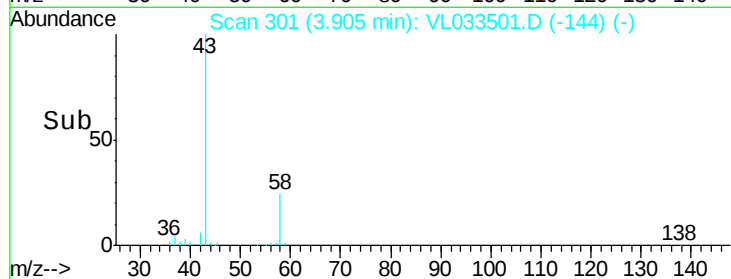
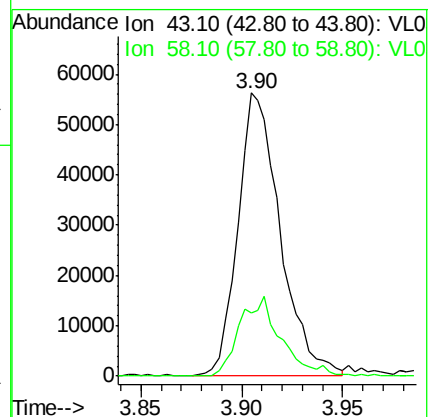
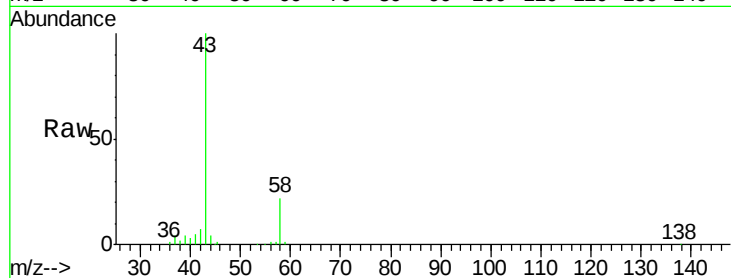
IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 43 Resp: 82938

Ion Ratio Lower Upper

43 100

58 27.6 20.5 30.7



#19

Isopropyl Alcohol

Concen: 0.925 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL033501.D

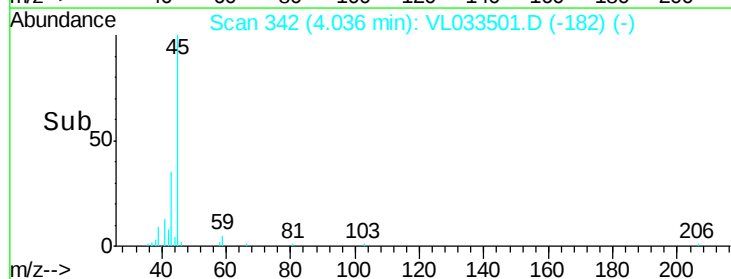
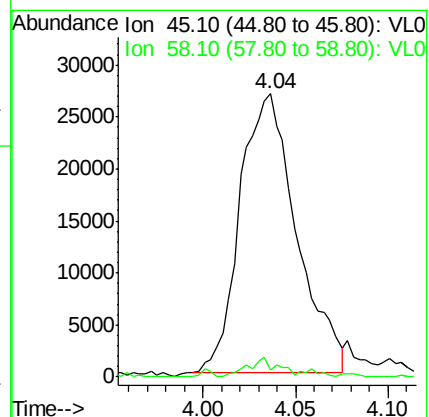
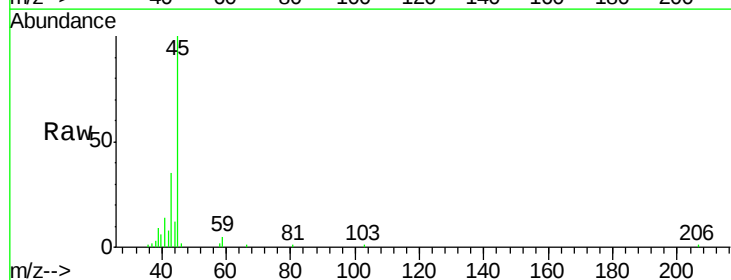
Acq: 29 Mar 2019 14:14

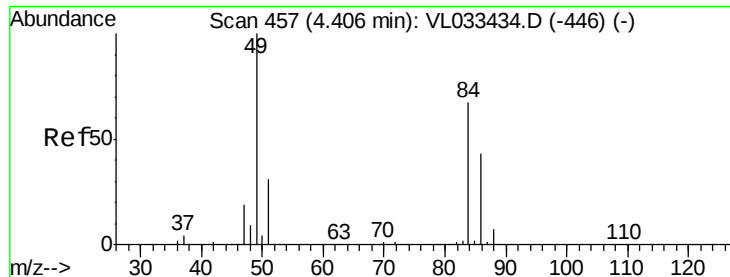
Tgt Ion: 45 Resp: 56964

Ion Ratio Lower Upper

45 100

58 5.4 1.4 2.2#

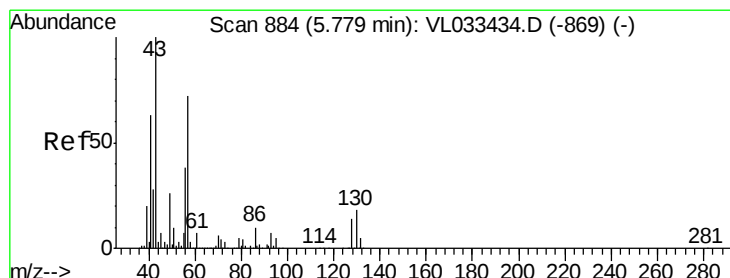
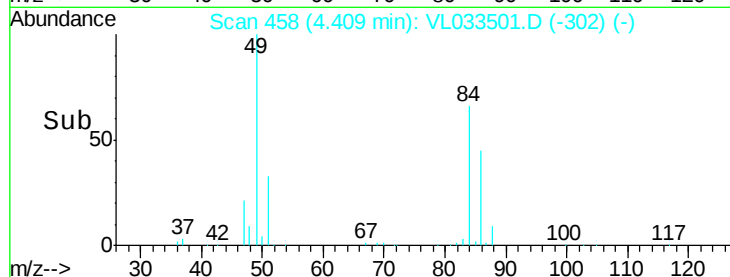
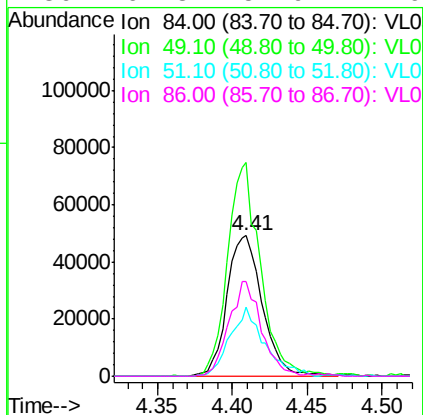
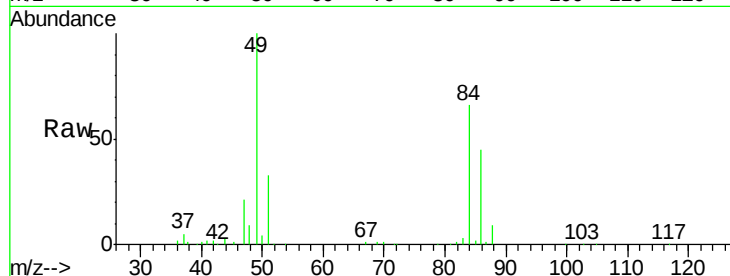




#20
Methvlene Chloride
Concen: 1.952 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

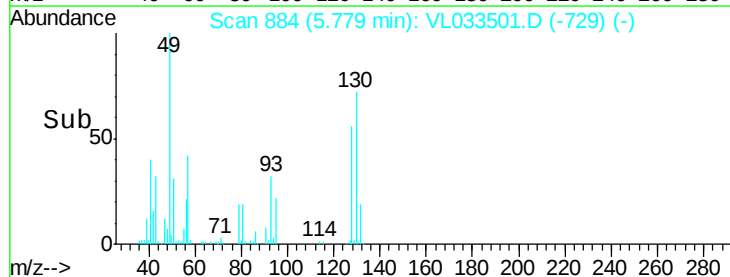
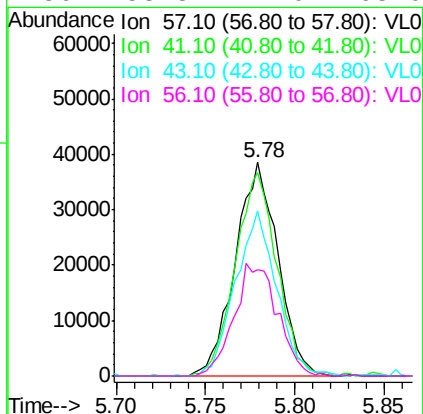
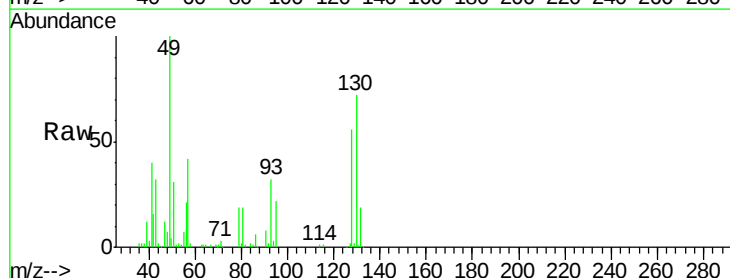
Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

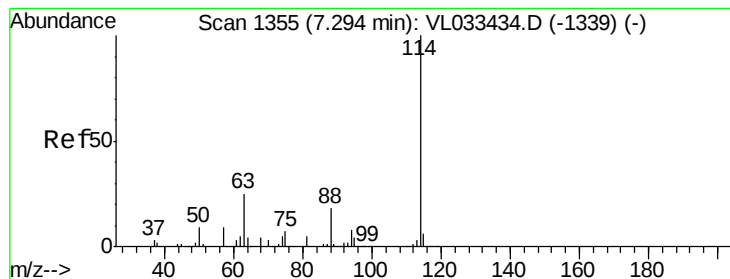
Tot Ion: 84 Resp: 80702
Ion Ratio Lower Upper
84 100
49 152.3 120.0 180.0
51 49.6 36.7 55.1
86 67.8 51.9 77.9



#26
Hexane
Concen: 0.800 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

Tgt Ion: 57 Resp: 64296
Ion Ratio Lower Upper
57 100
41 94.2 70.7 106.1
43 74.7 182.6 274.0#
56 53.8 42.0 63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033501.D

Acq: 29 Mar 2019 14:14

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

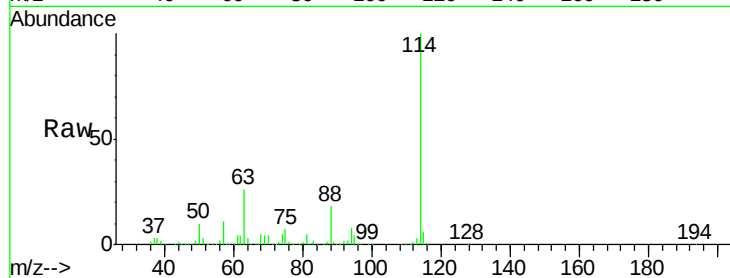
Tot Ion:114 Resp: 2145414

Ion Ratio Lower Upper

114 100

63 26.0 21.5 32.3

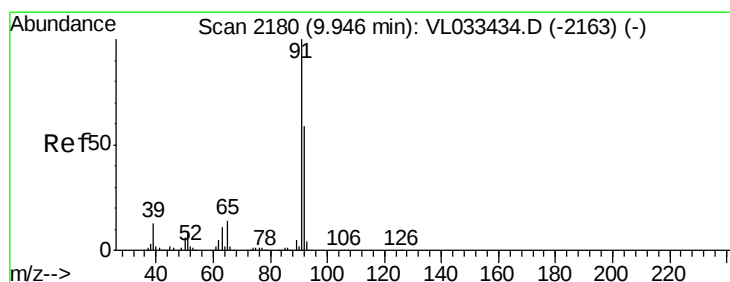
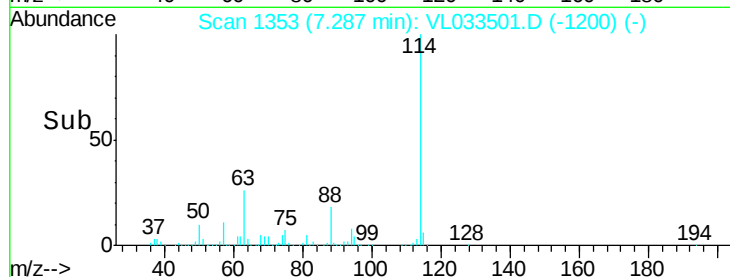
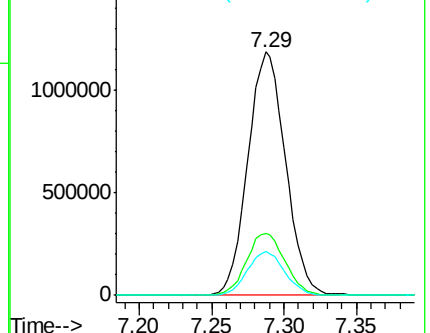
88 18.0 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#53

Toluene

Concen: 0.330 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033501.D

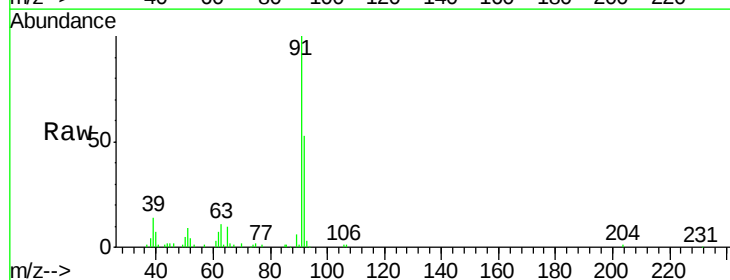
Acq: 29 Mar 2019 14:14

Tgt Ion: 91 Resp: 68980

Ion Ratio Lower Upper

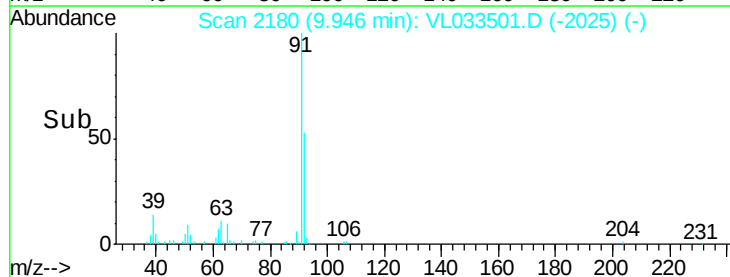
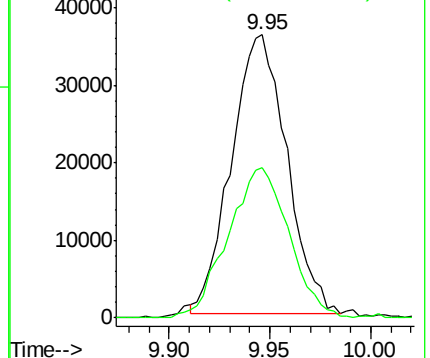
91 100

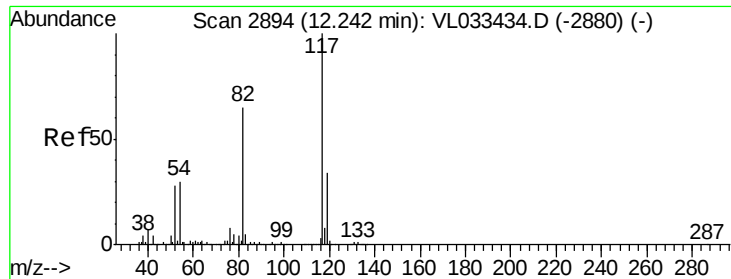
92 59.2 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

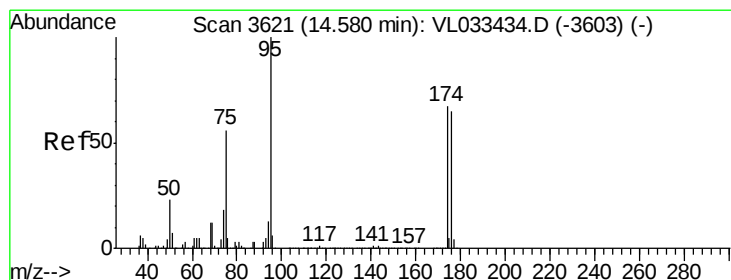
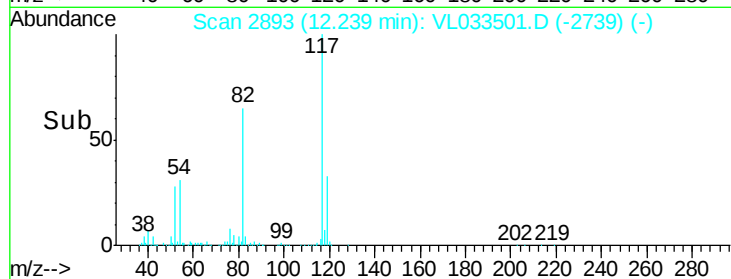
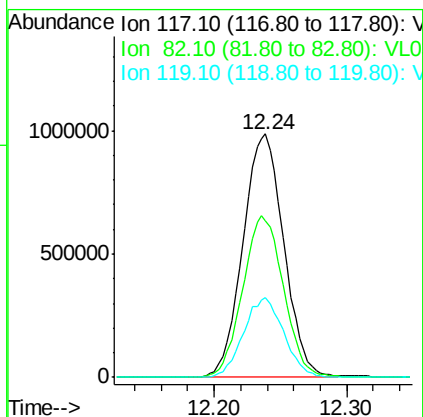
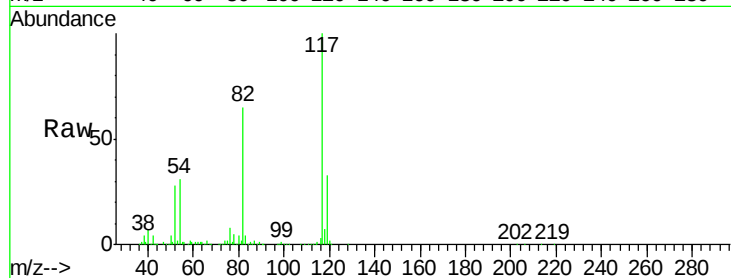




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion:117 Resp: 2113153
Ion Ratio Lower Upper
117 100
82 66.5 51.5 77.3
119 32.4 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.924 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

Tgt Ion: 95 Resp: 1644037
Ion Ratio Lower Upper
95 100
174 67.0 52.9 79.3
175 4.9 3.8 5.6

