

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033476.D
 Acq On : 27 Mar 2019 20:05
 Operator : SY/AP
 Sample : K2042-12DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-6-CR-104DL

Manual Integrations
 APPROVED

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 4/1/2019 1:25:54 AM

Quant Time: Mar 28 09:45:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 09:45:18 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	5.75	49	752866	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1719063	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1825581	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1422558	9.94	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	6370	0.058	ppbv	91
3) Chlorodifluoromethane	2.98	51	67445	0.778	ppbv #	59
4) Chloromethane	3.17	50	3056m	0.067	ppbv	
9) Propene	3.05	41	4365m	0.120	ppbv	
13) Ethanol	3.64	45	1414966	150.222	ppbv	64
15) Acetone	3.90	43	78038	0.862	ppbv	98
17) tert-Butyl alcohol	4.35	59	5554m	0.334	ppbv	
19) Isopropyl Alcohol	4.02	45	75787	1.324	ppbv #	94
20) Methylene Chloride	4.40	84	25321	0.659	ppbv	99
26) Hexane	5.77	57	15849	0.212	ppbv #	43
34) 2-Butanone	5.34	43	4545m	0.044	ppbv	
53) Toluene	9.94	91	52731	0.315	ppbv	96

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

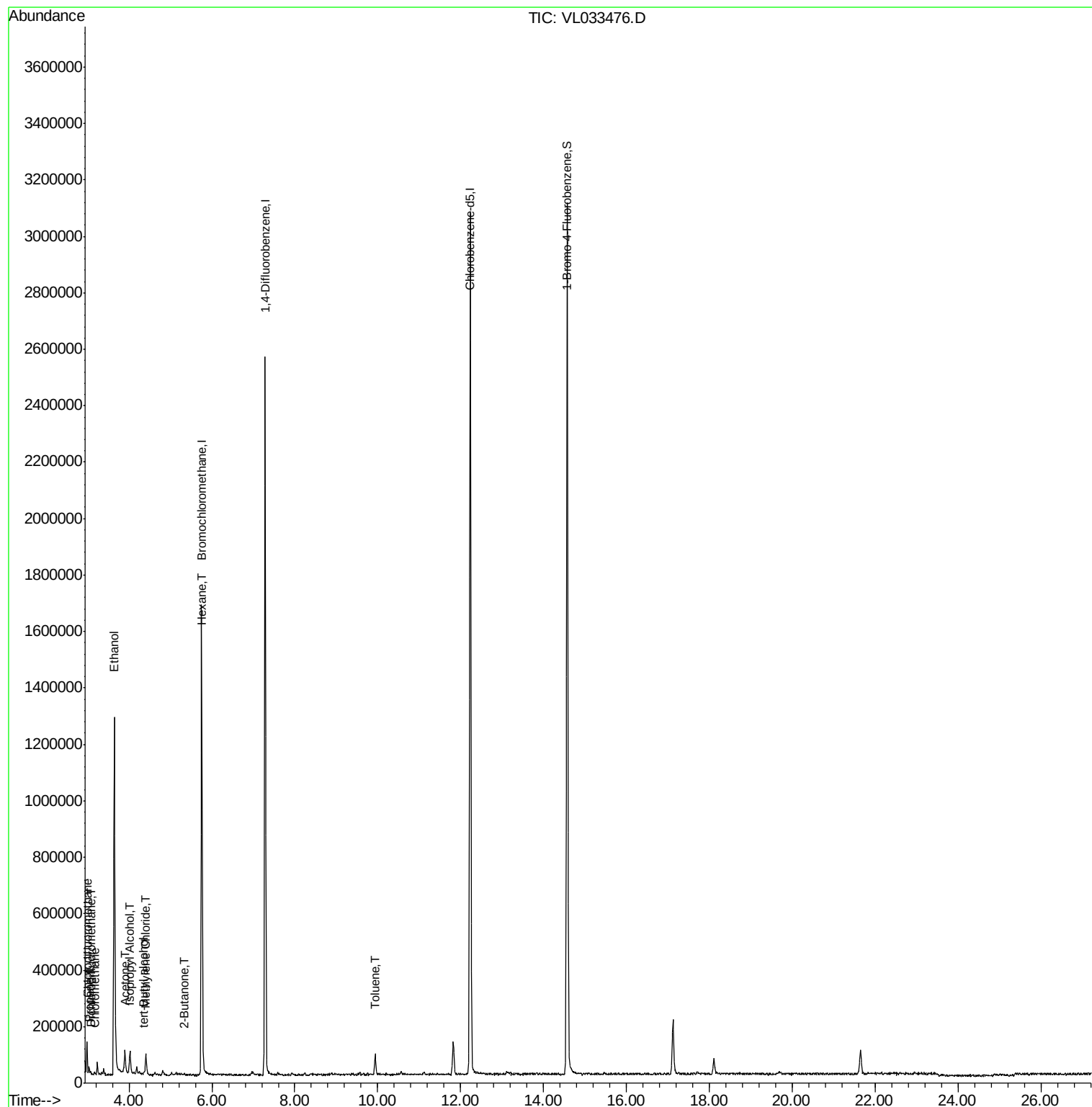
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033476.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

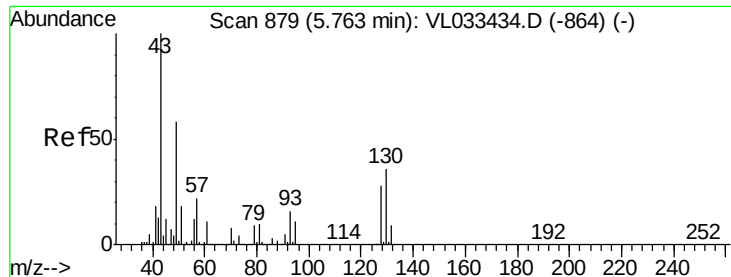
Instrument :
MSVOA_L
ClientSampleId :
IAS-6-CR-104DL

Manual Integrations
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4/1/2019 1:25:54 AM

Quant Time: Mar 28 09:45:18 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

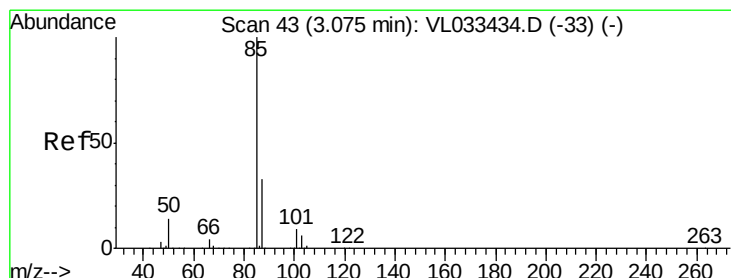
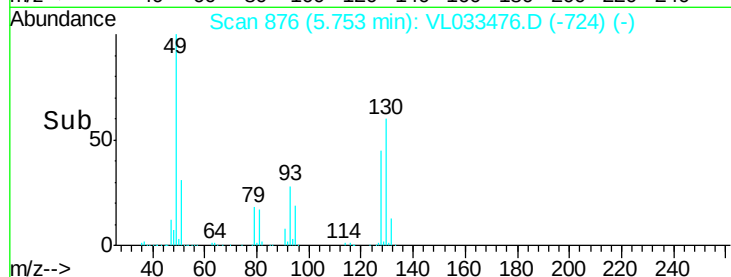
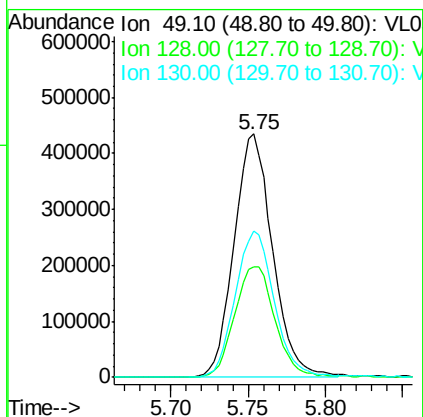
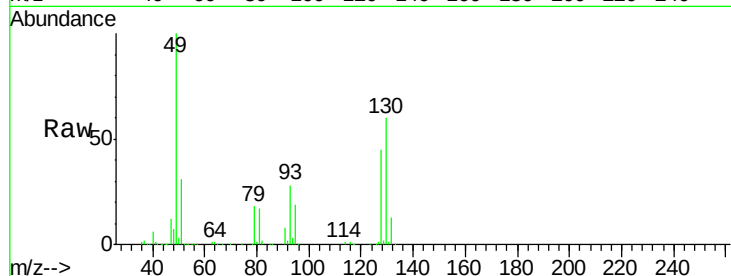
ClientSampleId :

IAS-6-CR-104DL

Tot Ion:	49	Resp:	752866
Ion	Ratio	Lower	Upper
49	100		
128	48.2	24.0	72.0
130	61.9	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.058 ppbv

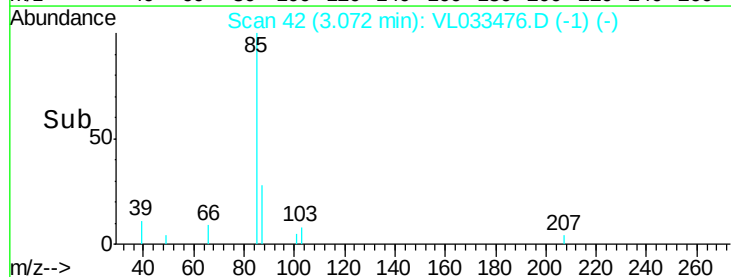
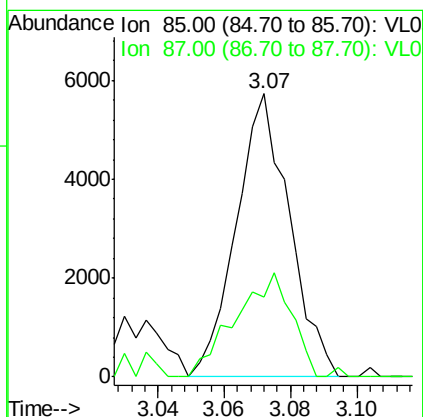
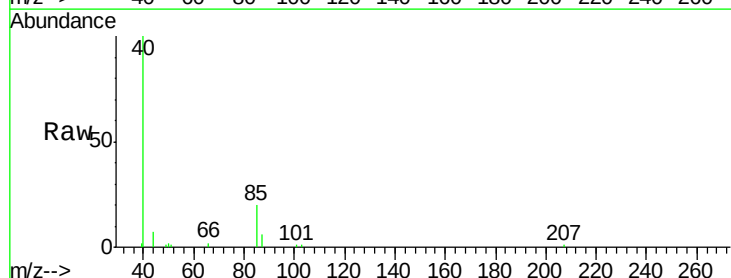
RT: 3.07 min Scan# 42

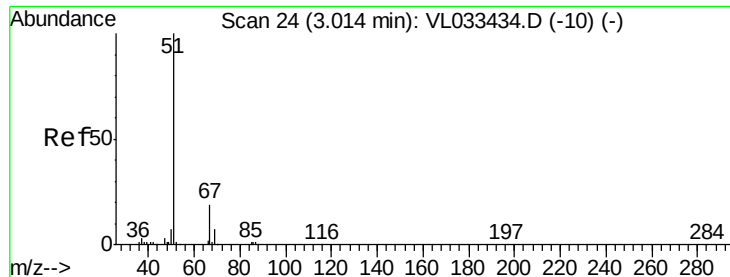
Delta R.T. -0.00 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Tgt Ion:	85	Resp:	6370
Ion	Ratio	Lower	Upper
85	100		
87	28.0	26.7	40.1





#3

Chlorodifluoromethane

Concen: 0.778 ppbv

RT: 2.98 min Scan# 14

Delta R.T. -0.03 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104DL

Tot Ion: 51 Resp: 67445

Ion Ratio Lower Upper

51 100

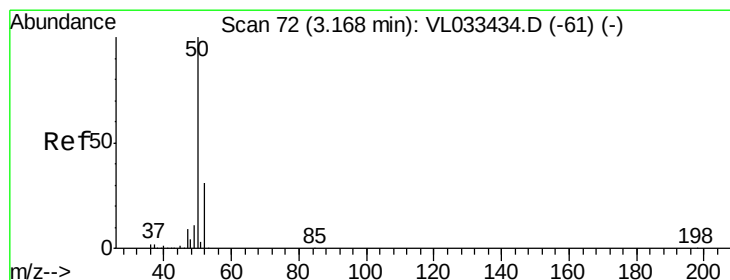
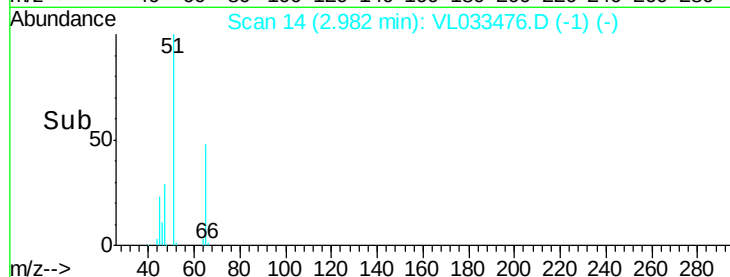
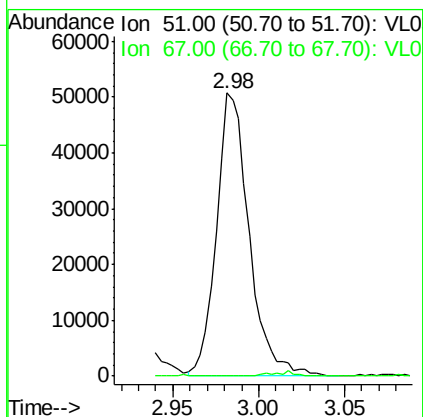
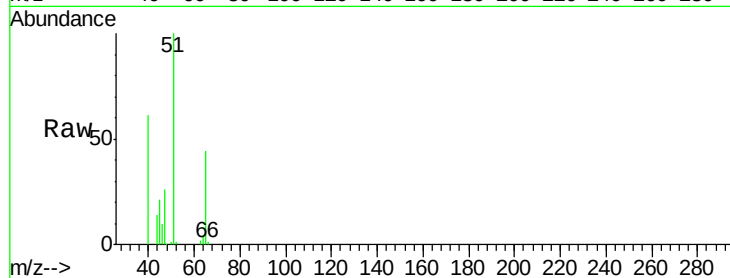
67 1.0 15.7 23.5#

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#4

Chloromethane

Concen: 0.067 ppbv m

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033476.D

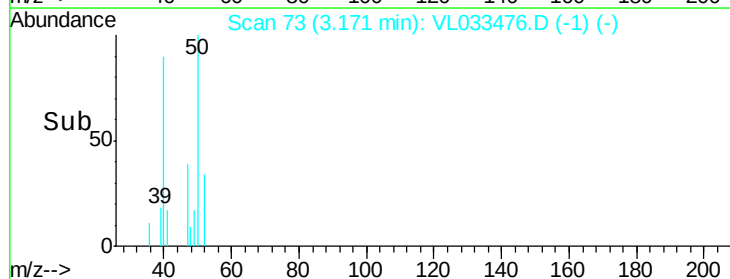
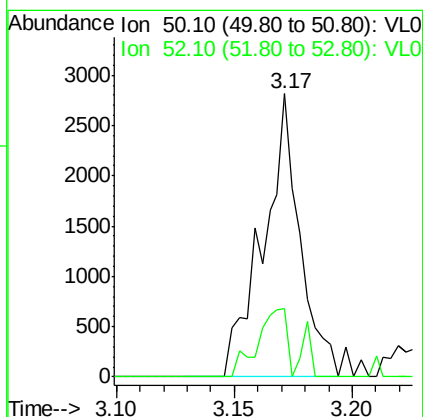
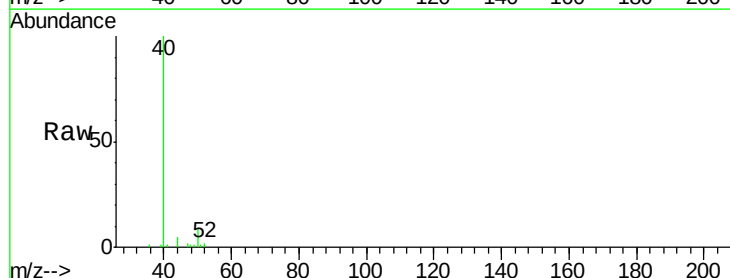
Acq: 27 Mar 2019 20:05

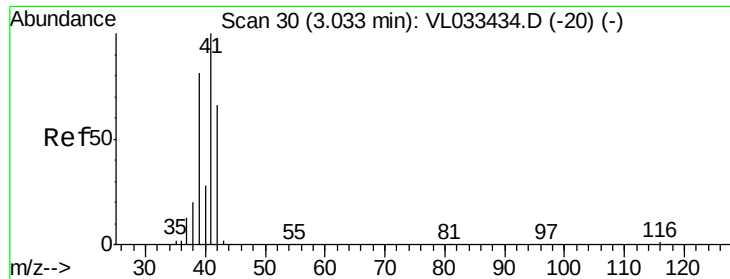
Tgt Ion: 50 Resp: 3056

Ion Ratio Lower Upper

50 100

52 24.2 25.0 37.6#





#9

Propene

Concen: 0.120 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104DL

Tot Ion: 41 Resp: 4365

Ion Ratio Lower Upper

41 100

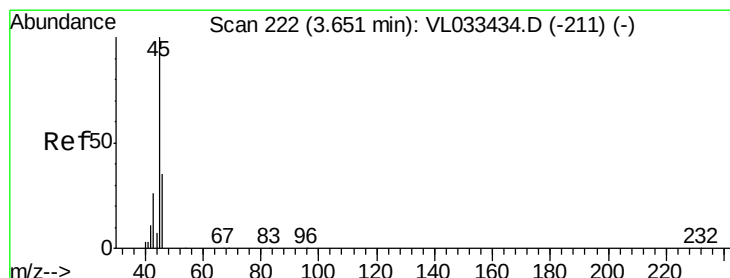
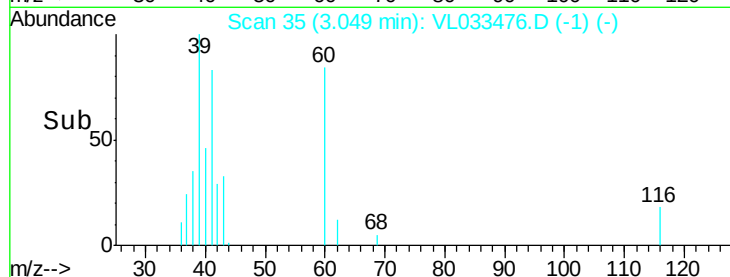
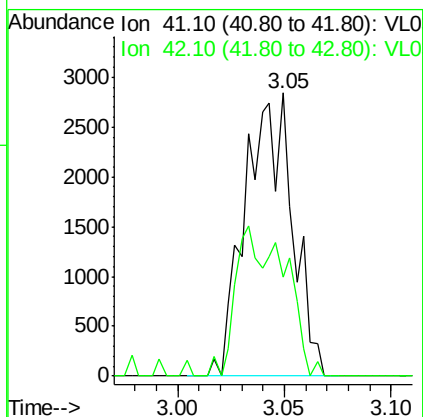
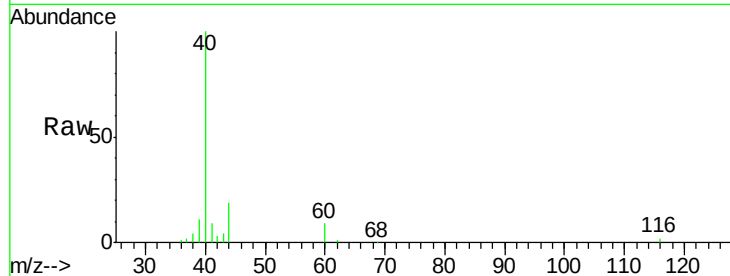
42 170.5 53.9 80.9#

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#13

Ethanol

Concen: 150.222 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033476.D

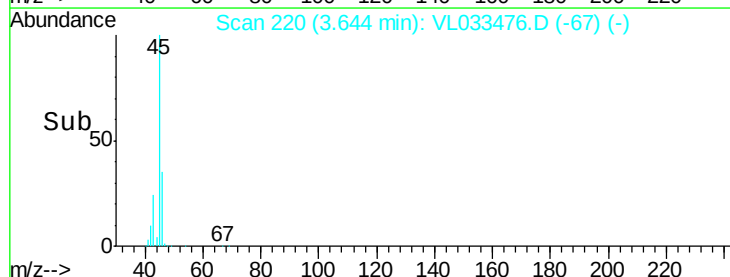
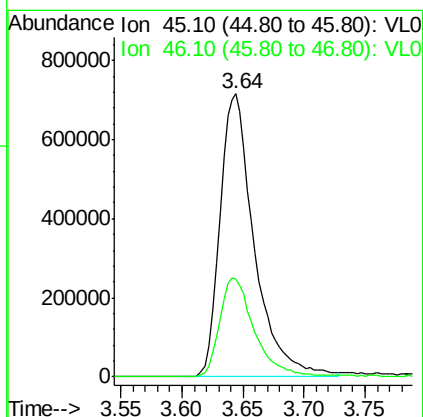
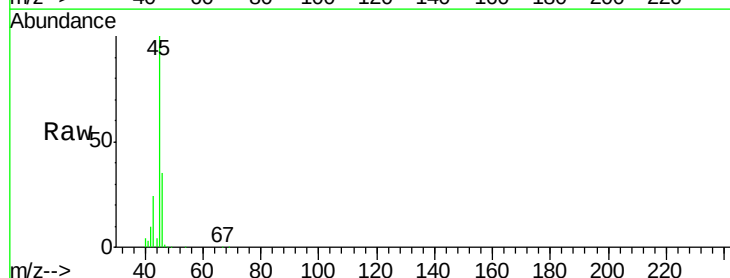
Acq: 27 Mar 2019 20:05

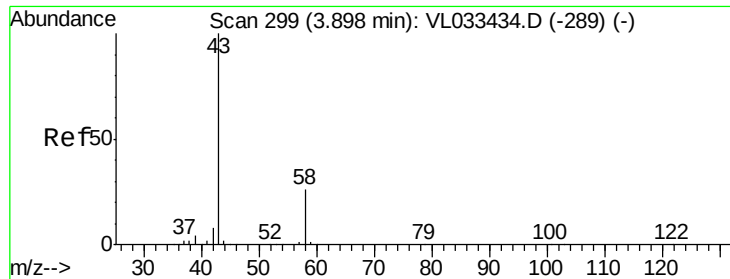
Tgt Ion: 45 Resp: 1414966

Ion Ratio Lower Upper

45 100

46 35.7 25.4 101.8





#15

Acetone

Concen: 0.862 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104DL

Tot Ion: 43 Resp: 78038

Ion Ratio Lower Upper

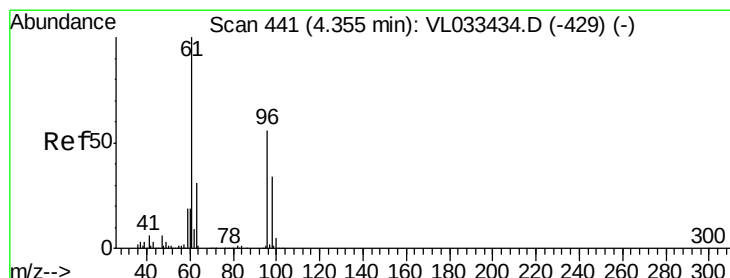
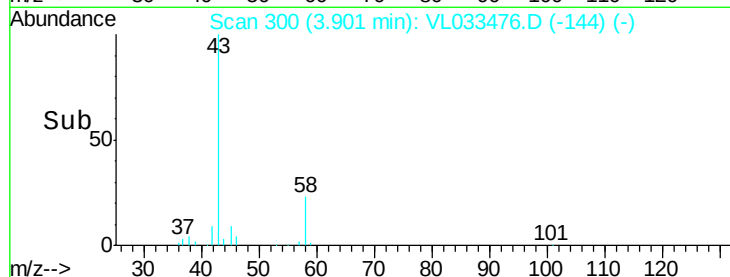
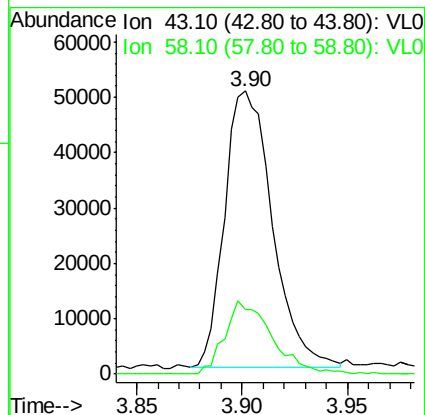
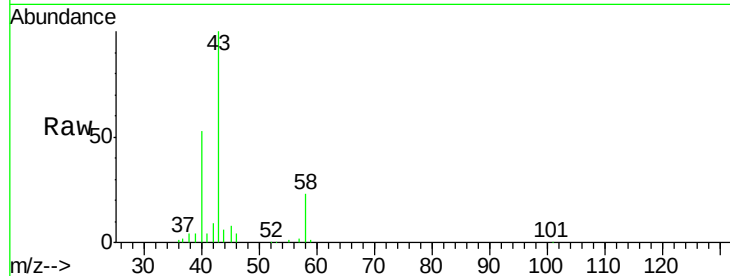
43 100

58 26.6 20.5 30.7

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#17

tert-Butyl alcohol

Concen: 0.334 ppbv m

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033476.D

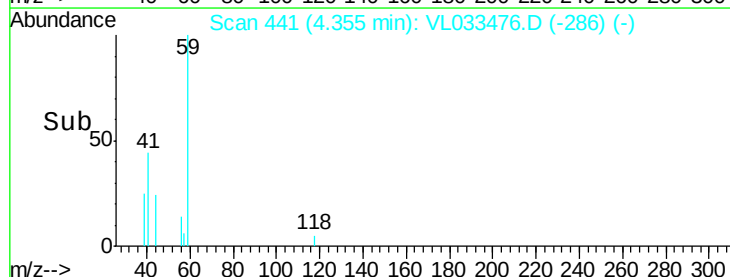
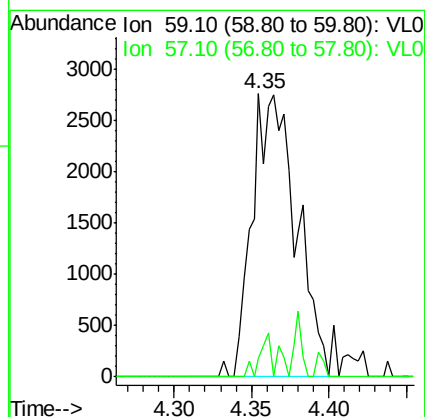
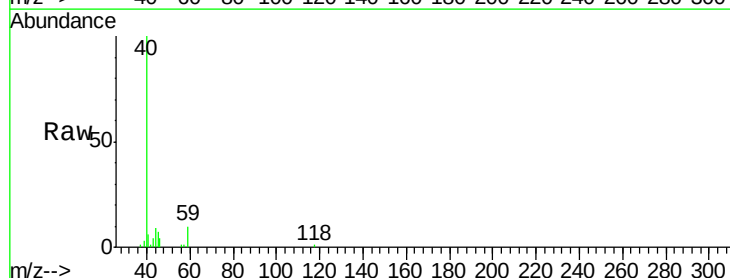
Acq: 27 Mar 2019 20:05

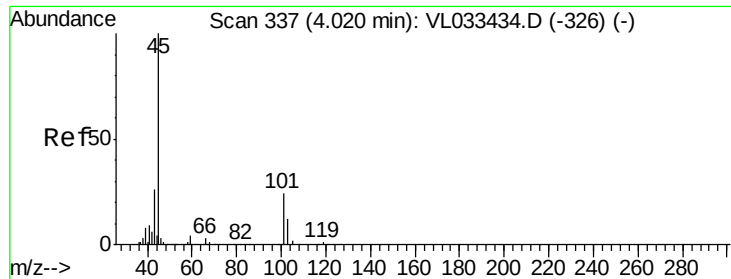
Tgt Ion: 59 Resp: 5554

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 1.324 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104DL

Tot Ion: 45 Resp: 75787

Ion Ratio Lower Upper

45 100

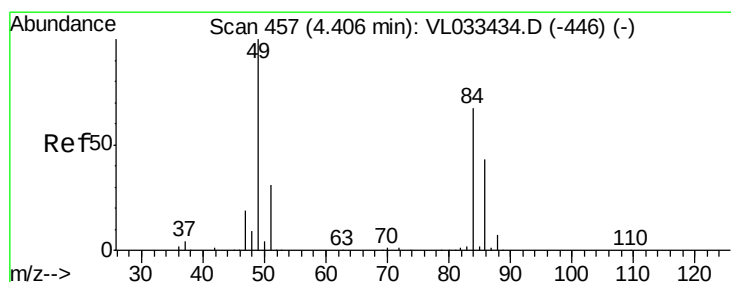
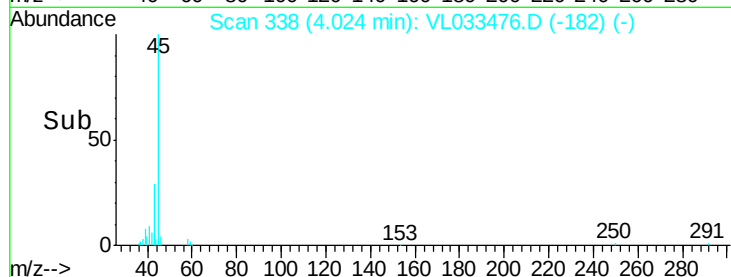
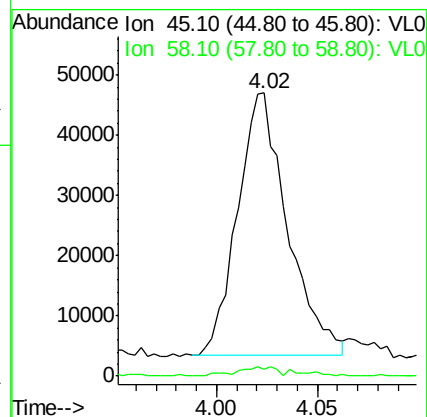
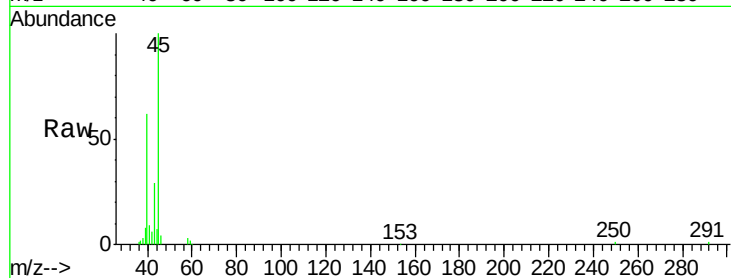
58 3.8 1.4 2.2#

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#20

Methylene Chloride

Concen: 0.659 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Tgt Ion: 84 Resp: 25321

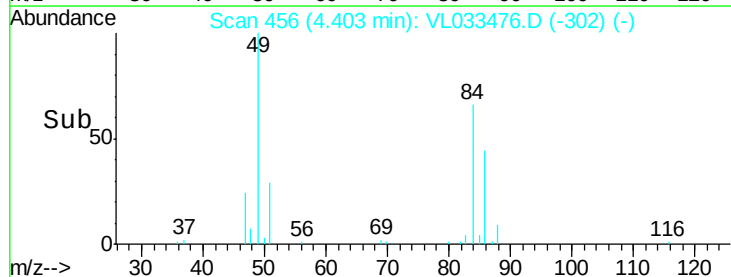
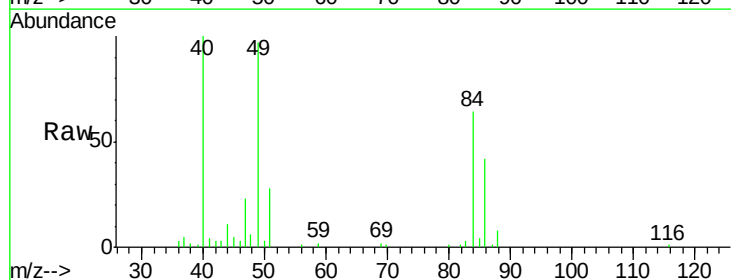
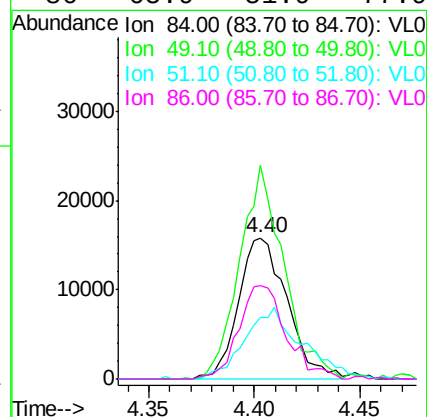
Ion Ratio Lower Upper

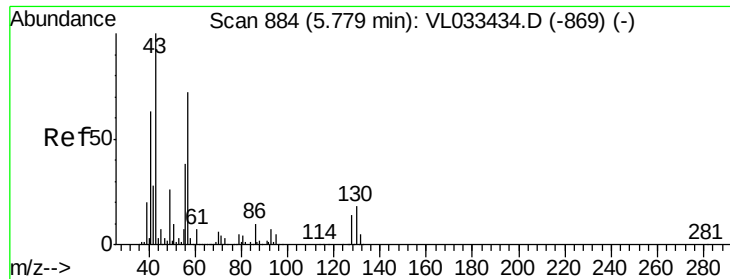
84 100

49 151.0 120.0 180.0

51 43.7 36.7 55.1

86 65.9 51.9 77.9





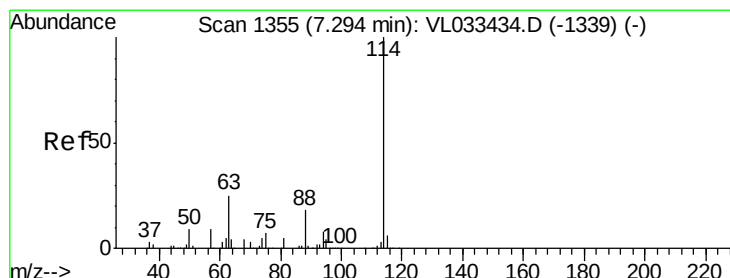
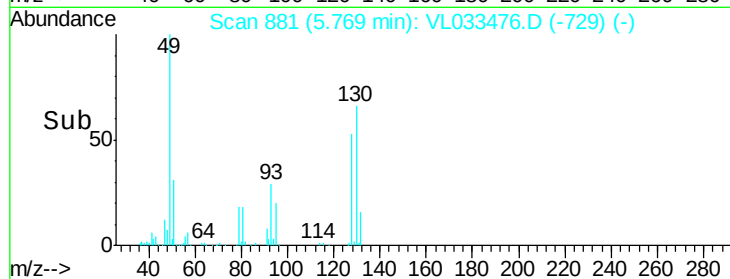
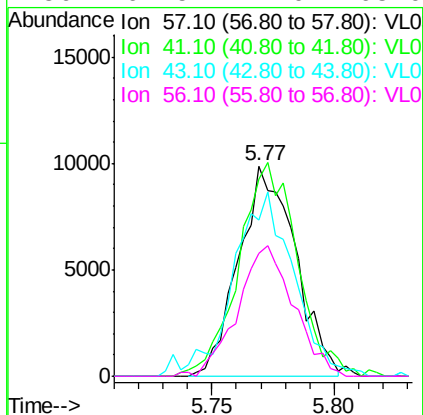
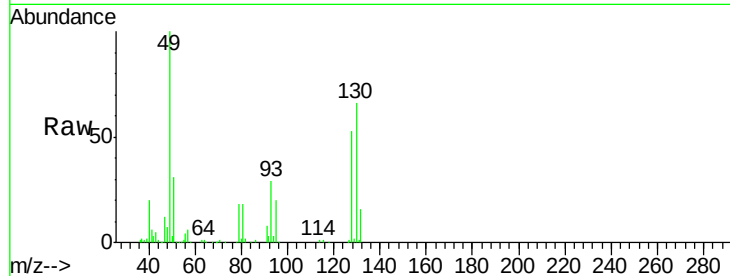
#26
Hexane
Concen: 0.212 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033476.D
Acq: 27 Mar 2019 20:05

Instrument :
MSVOA_L
ClientSampleId :
IAS-6-CR-104DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	105.8	70.7	106.1
43	94.5	182.6	274.0#
56	61.5	42.0	63.0

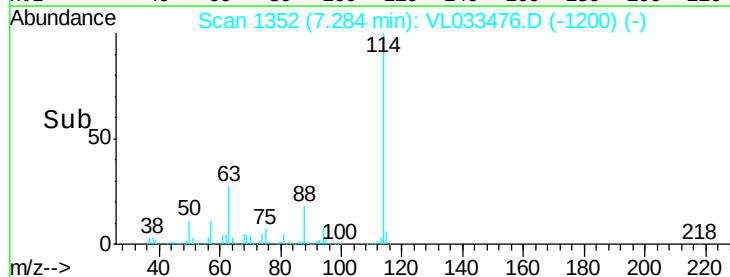
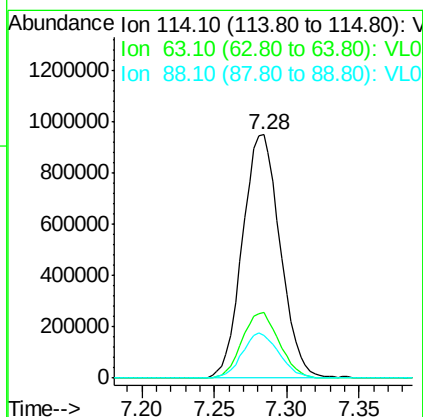
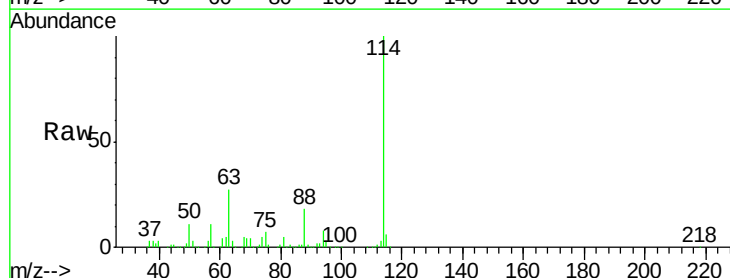
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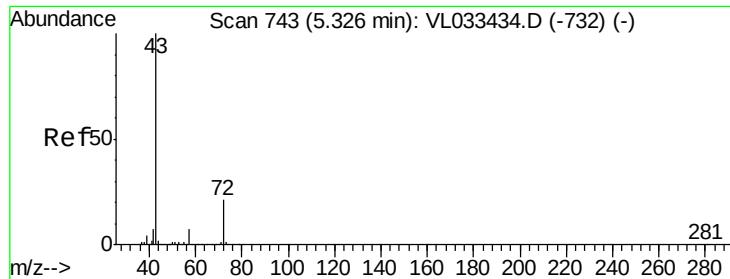
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033476.D
Acq: 27 Mar 2019 20:05

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.5	32.3
88	18.1	14.5	21.7





#34

2-Butanone

Concen: 0.044 ppbv m

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033476.D

Acq: 27 Mar 2019 20:05

Tot Ion: 43 Resp: 4545

Ion Ratio Lower Upper

43 100

72 22.0 17.4 26.2

Instrument :

MSVOA_L

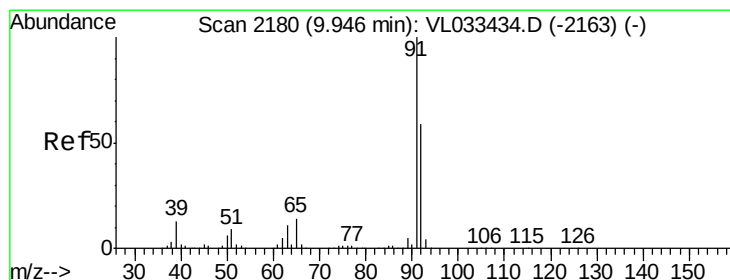
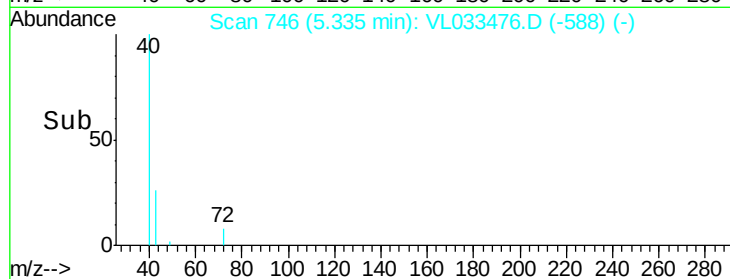
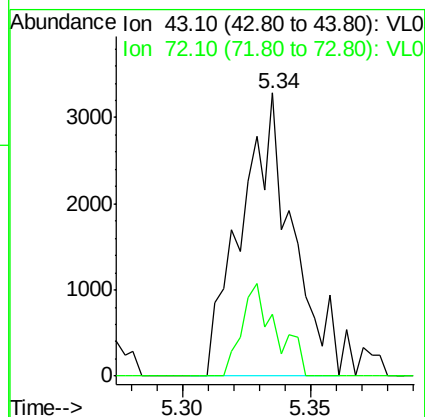
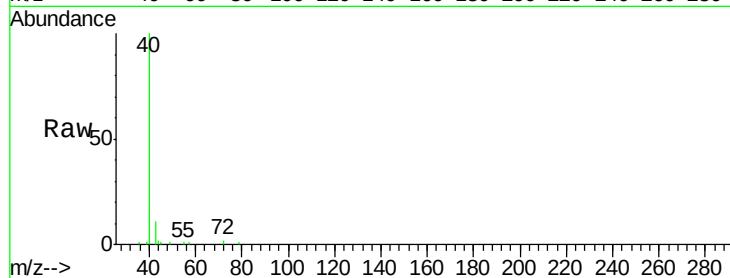
ClientSampleId :

IAS-6-CR-104DL

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#53

Toluene

Concen: 0.315 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033476.D

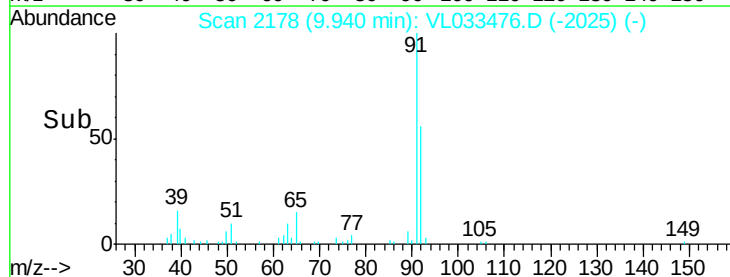
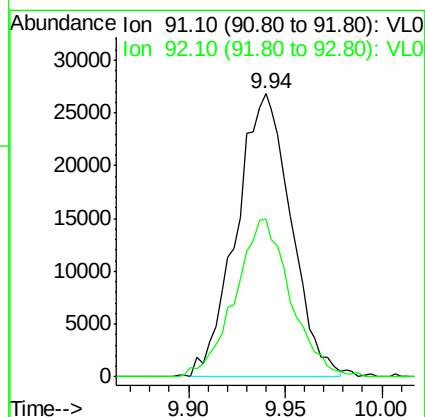
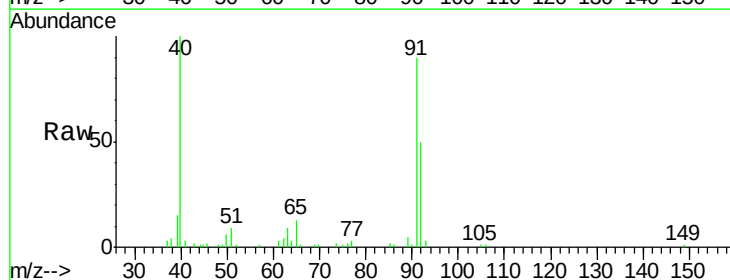
Acq: 27 Mar 2019 20:05

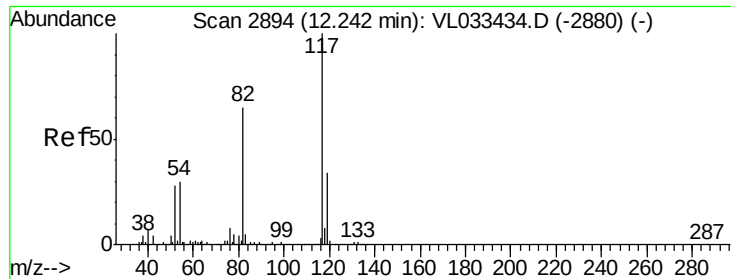
Tgt Ion: 91 Resp: 52731

Ion Ratio Lower Upper

91 100

92 56.4 47.4 71.0





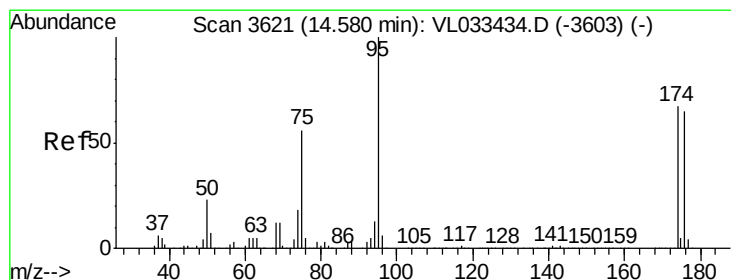
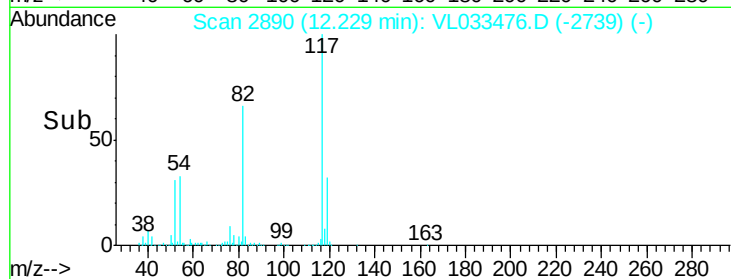
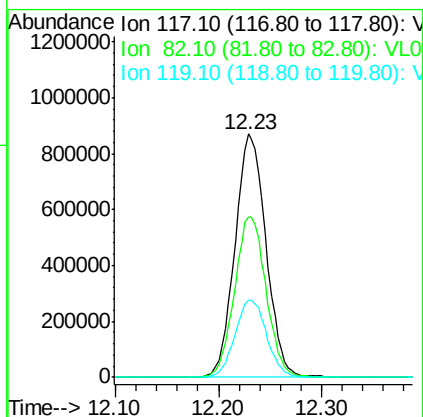
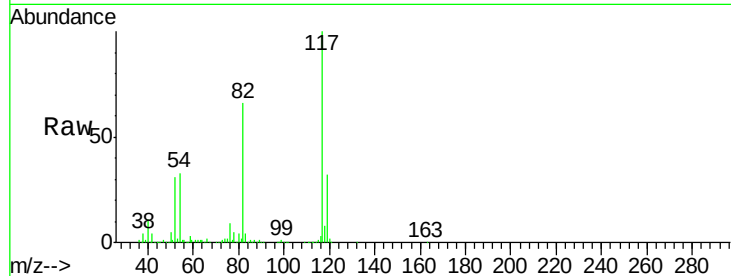
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL033476.D
Acq: 27 Mar 2019 20:05

Instrument :
MSVOA_L
ClientSampleId :
IAS-6-CR-104DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.2	51.5	77.3
119	32.5	25.5	38.3

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:25:54 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.940 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033476.D
Acq: 27 Mar 2019 20:05

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.4	52.9	79.3
175	4.6	3.8	5.6

