

Data File : VL034719.D
Acq On : 27 Feb 2020 21:53
Operator : SY/AP
Sample : L1662-06DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Feb 28 01:11:02 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1101109	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2188428	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2148213	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.46 95 1812699 10.29 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.90%

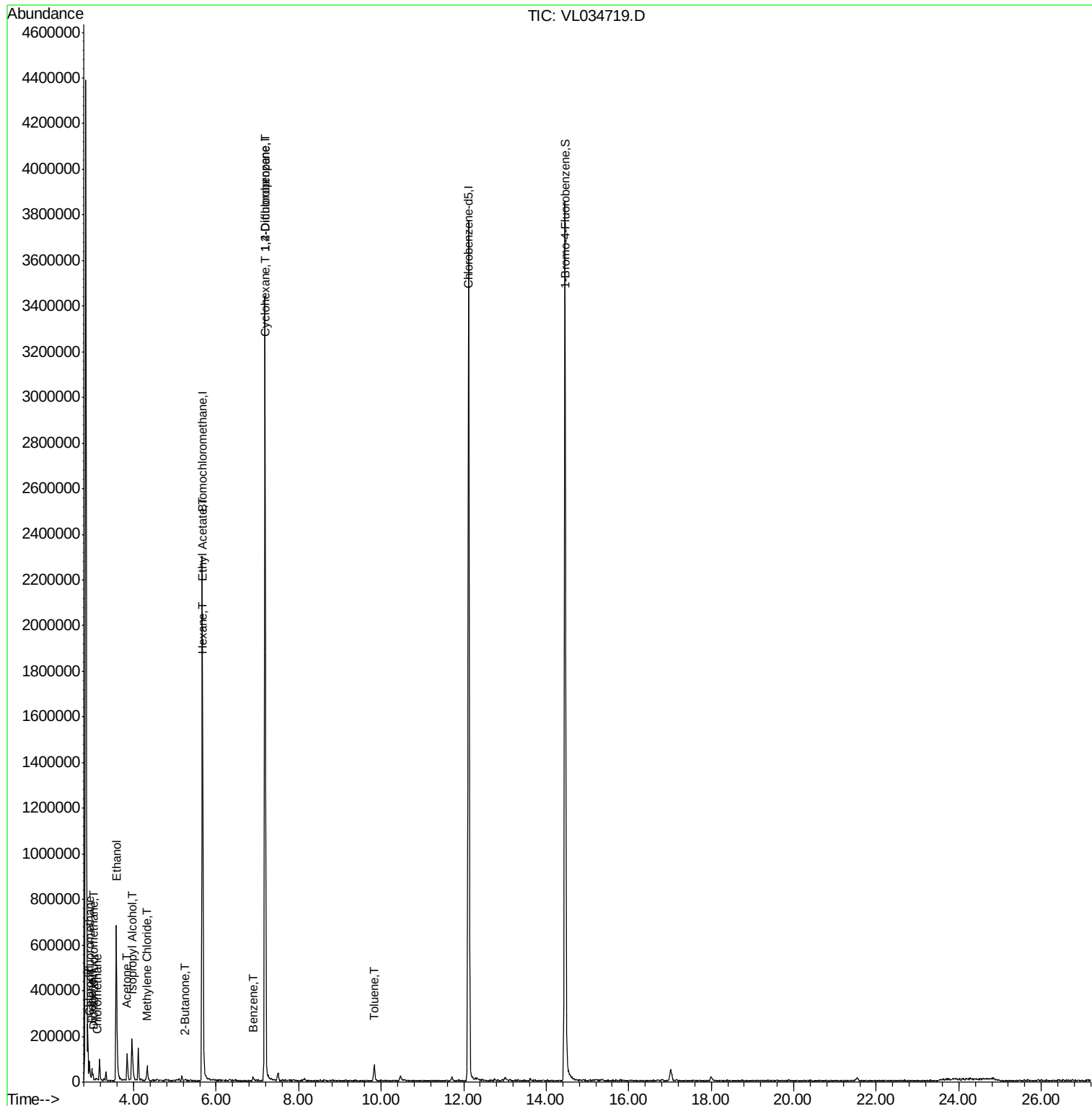
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	11996	0.069	ppbv #	79
3) Chlorodifluoromethane	2.93	51	41621	0.350	ppbv #	63
4) Chloromethane	3.11	50	3720	0.056	ppbv #	52
9) Propene	2.98	41	4415	0.089	ppbv #	15
13) Ethanol	3.58	45	644832	41.093	ppbv	97
15) Acetone	3.84	43	113945	0.908	ppbv	94
19) Isopropyl Alcohol	3.96	45	194075	2.597	ppbv #	93
20) Methylene Chloride	4.33	84	20646	0.442	ppbv #	76
25) Ethyl Acetate	5.68	43	11396	0.051	ppbv #	85
26) Hexane	5.68	57	7051	0.069	ppbv #	42
30) Cyclohexane	7.17	84	3464	0.044	ppbv #	7
34) 2-Butanone	5.24	43	3239	0.024	ppbv #	53
36) Benzene	6.90	78	5153	0.027	ppbv #	76
39) 1,2-Dichloropropane	7.19	63	642650	8.546	ppbv #	24
53) Toluene	9.83	91	29483	0.147	ppbv #	52

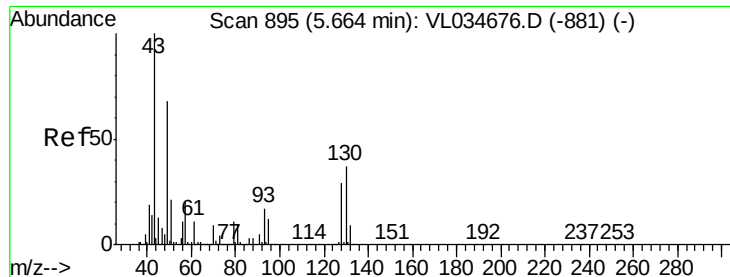
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

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ClientSampleId :

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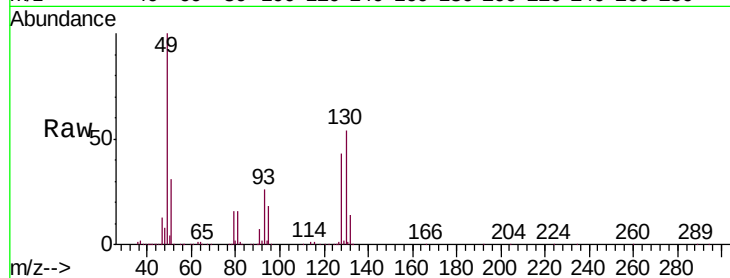
Tgt Ion: 49 Resp: 1101109

Ion Ratio Lower Upper

49 100

128 43.1 21.6 65.0

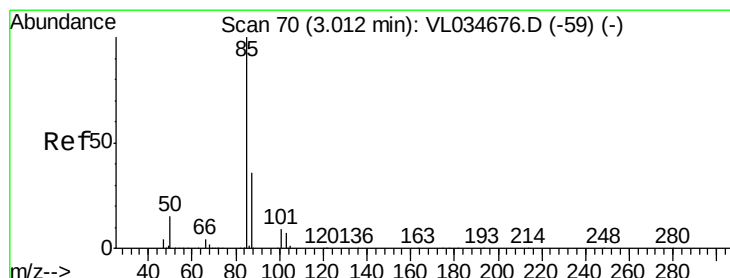
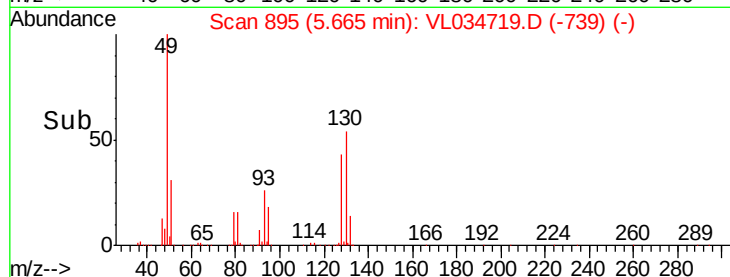
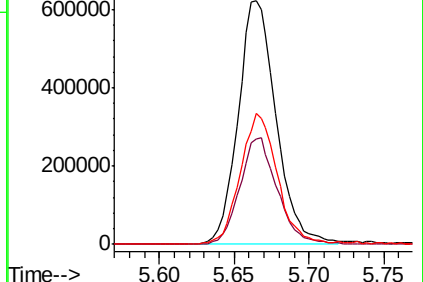
130 53.2 27.7 83.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.069 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL034719.D

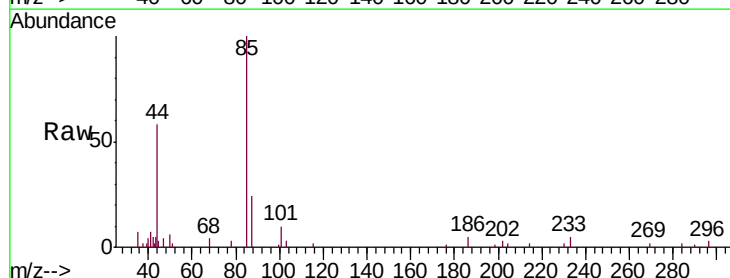
Acq: 27 Feb 2020 21:53

Tgt Ion: 85 Resp: 11996

Ion Ratio Lower Upper

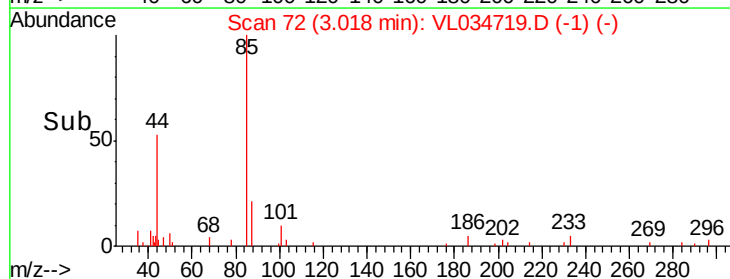
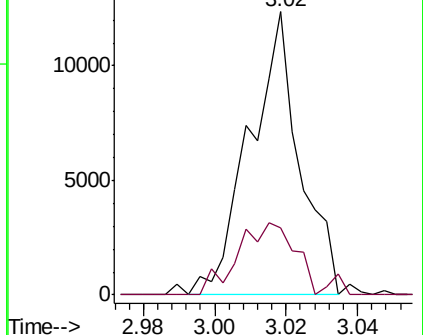
85 100

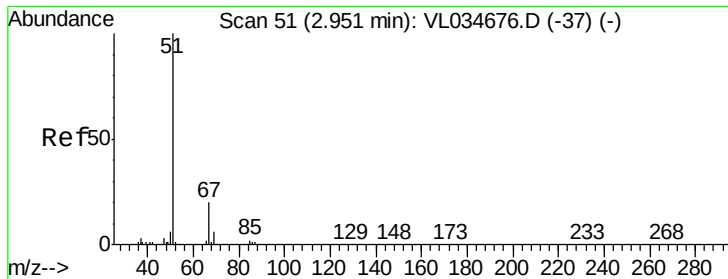
87 23.8 29.2 43.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.350 ppbv

RT: 2.93 min Scan# 44

Delta R.T. -0.02 min

Lab File: VL034719.D

Acq: 27 Feb 2020 21:53

Instrument :

MSVOA_L

ClientSampleId :

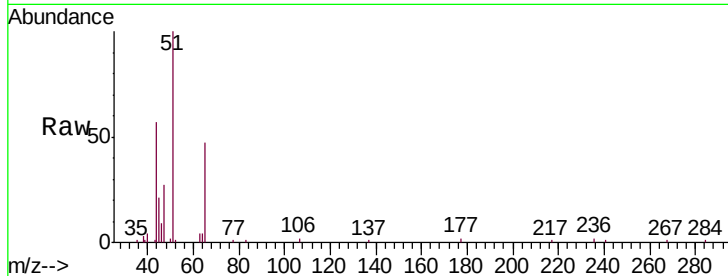
IAS-6-CR-104DL

Tgt Ion: 51 Resp: 41621

Ion Ratio Lower Upper

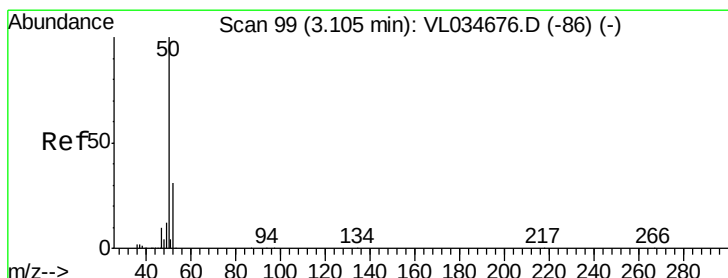
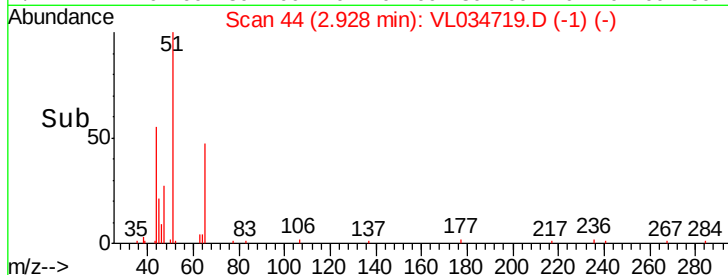
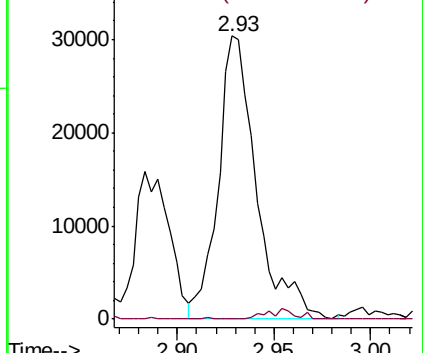
51 100

67 2.6 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.056 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.01 min

Lab File: VL034719.D

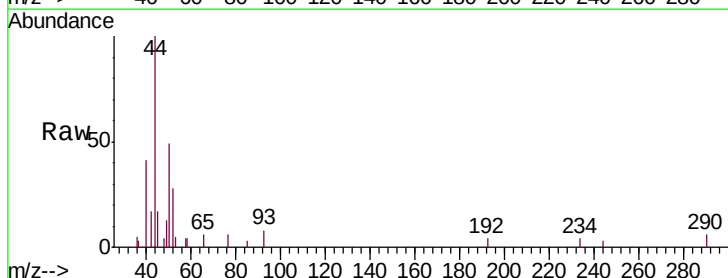
Acq: 27 Feb 2020 21:53

Tgt Ion: 50 Resp: 3720

Ion Ratio Lower Upper

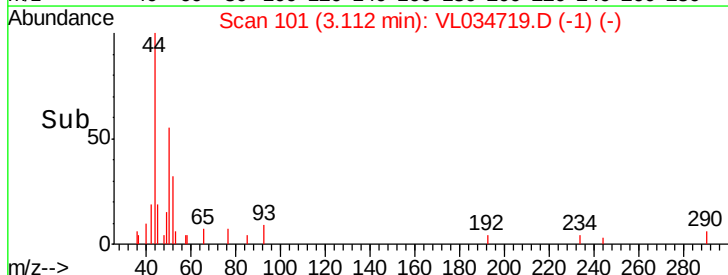
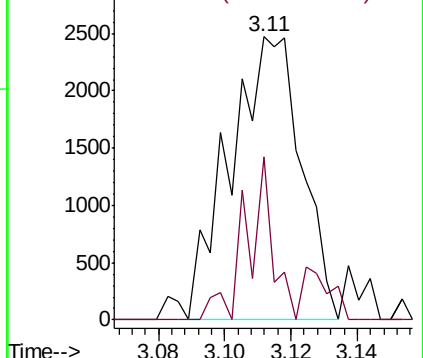
50 100

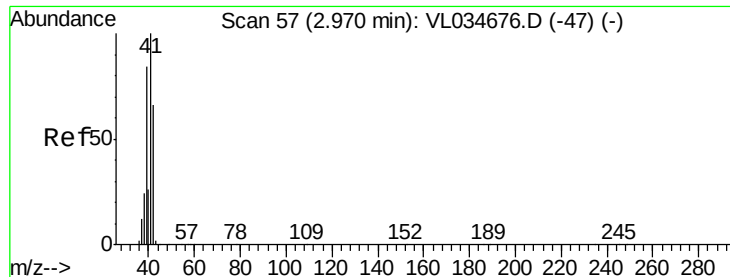
52 57.8 25.0 37.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.089 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL034719.D

Acq: 27 Feb 2020 21:53

Instrument :

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ClientSampleId :

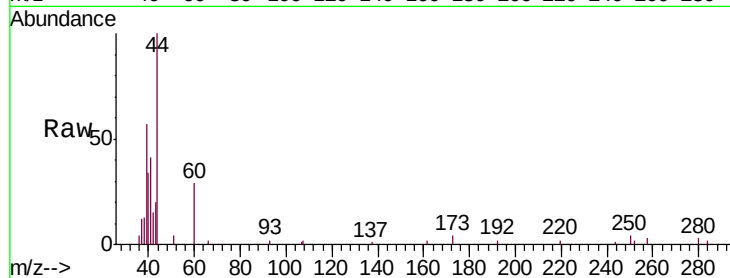
IAS-6-CR-104DL

Tgt Ion: 41 Resp: 4415

Ion Ratio Lower Upper

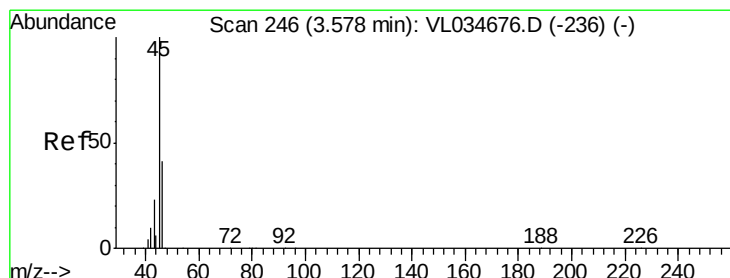
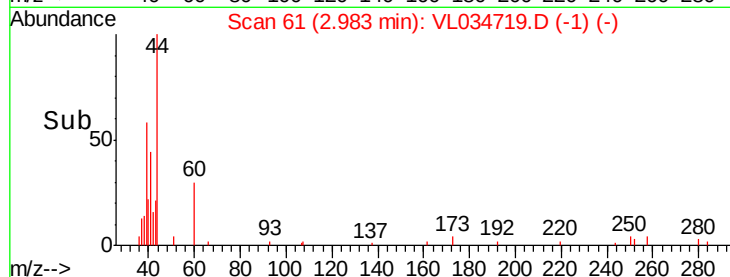
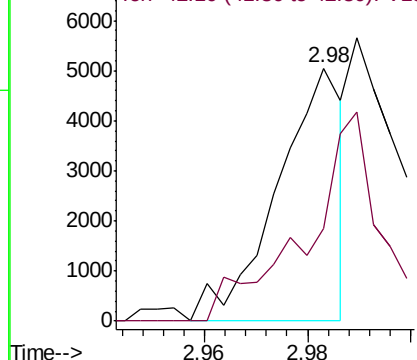
41 100

42 0.0 54.9 82.3#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 41.093 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.00 min

Lab File: VL034719.D

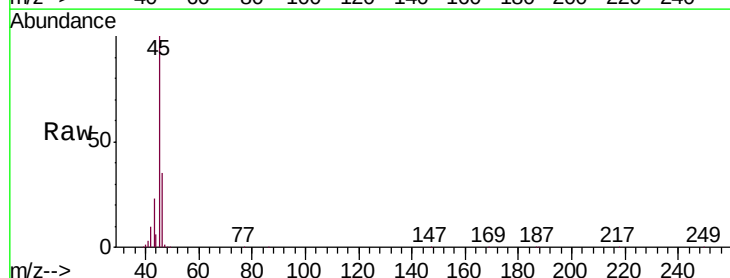
Acq: 27 Feb 2020 21:53

Tgt Ion: 45 Resp: 644832

Ion Ratio Lower Upper

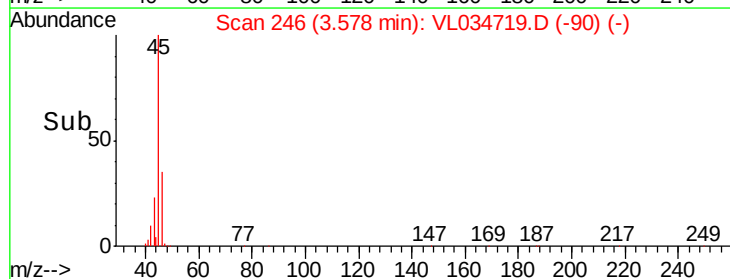
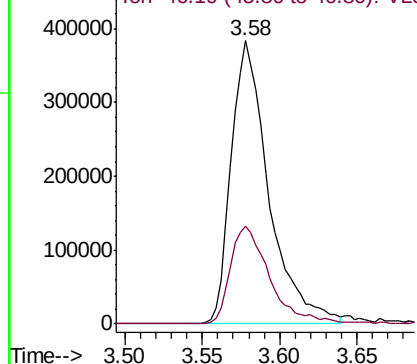
45 100

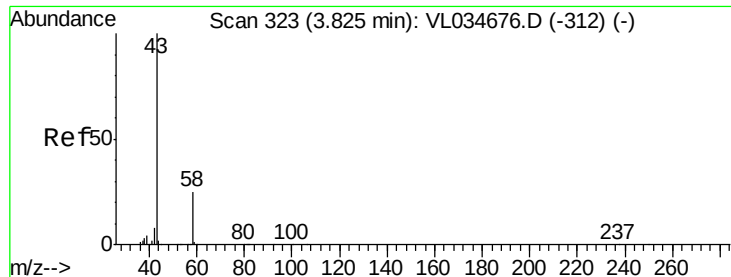
46 36.7 15.4 61.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.908 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.01 min

Lab File: VL034719.D

Acq: 27 Feb 2020 21:53

Instrument :

MSVOA_L

ClientSampleId :

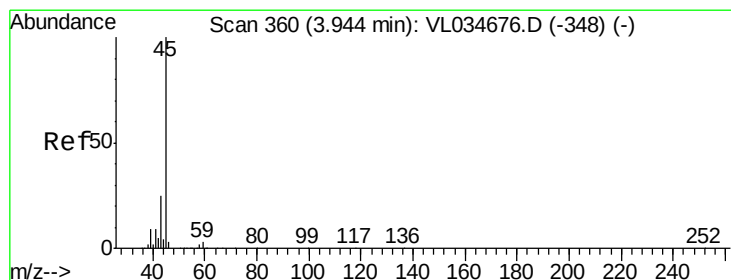
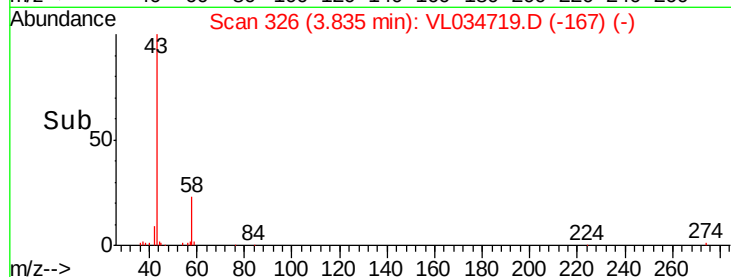
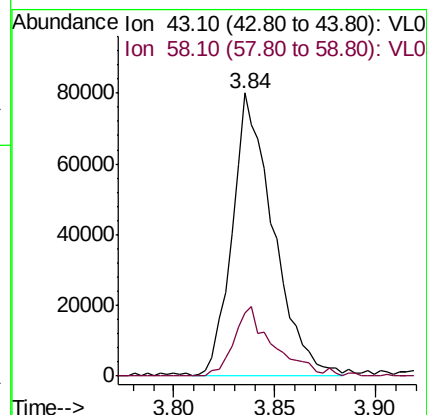
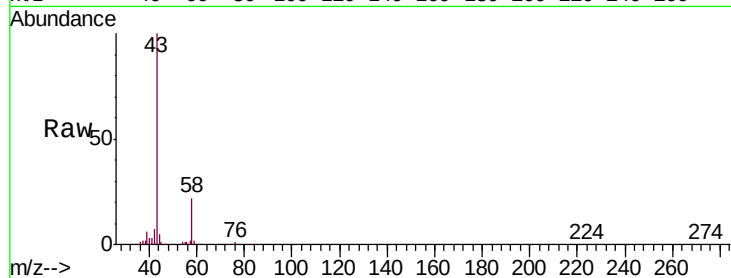
IAS-6-CR-104DL

Tgt Ion: 43 Resp: 113945

Ion Ratio Lower Upper

43 100

58 23.8 21.4 32.0



#19

Isopropyl Alcohol

Concen: 2.597 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL034719.D

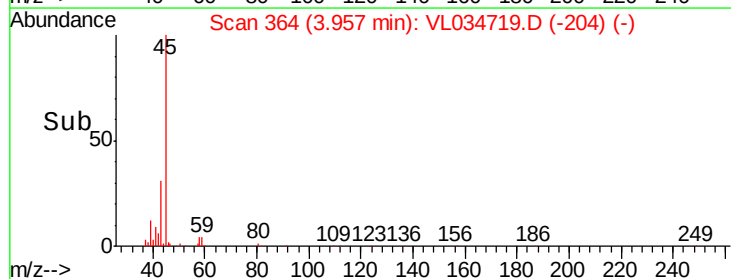
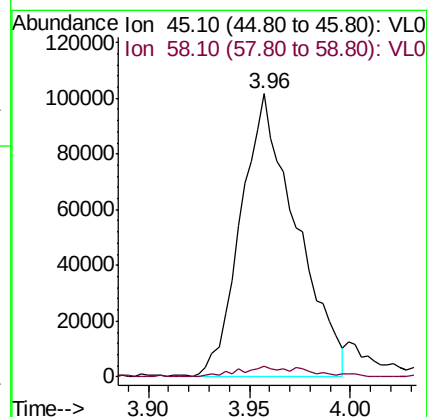
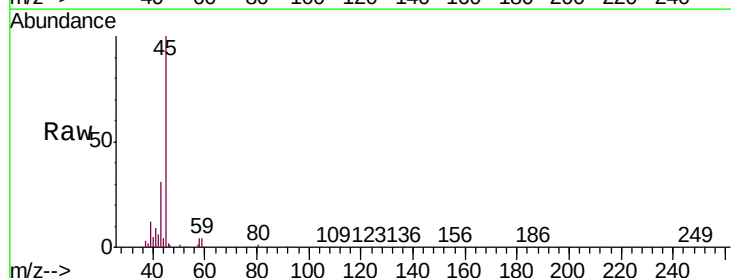
Acq: 27 Feb 2020 21:53

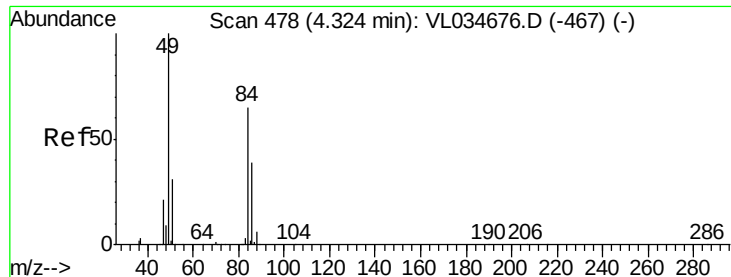
Tgt Ion: 45 Resp: 194075

Ion Ratio Lower Upper

45 100

58 4.6 1.8 2.6#

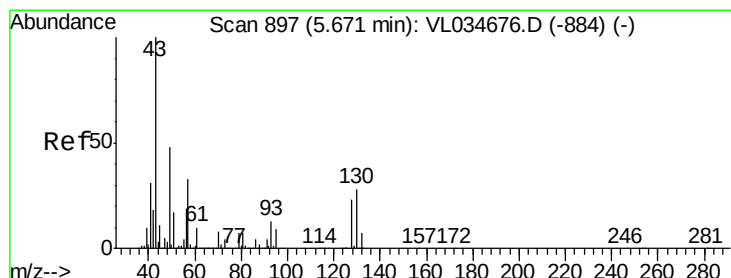
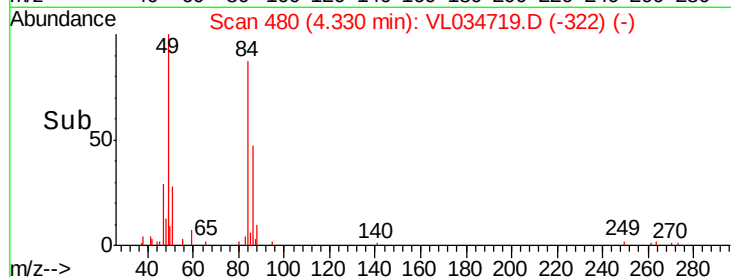
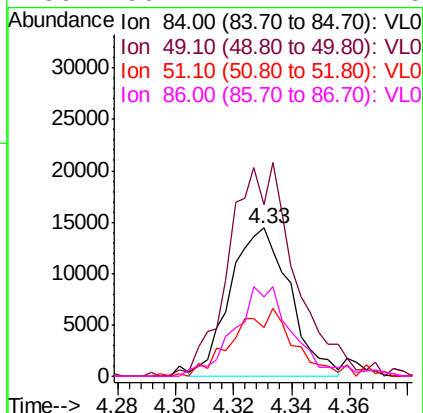
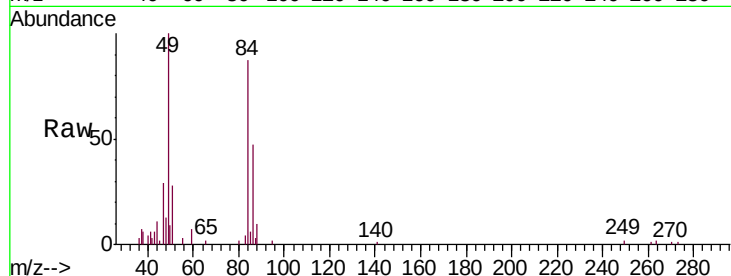




#20
Methylene Chloride
Concen: 0.442 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.01 min
Lab File: VL034719.D
Acq: 27 Feb 2020 21:53

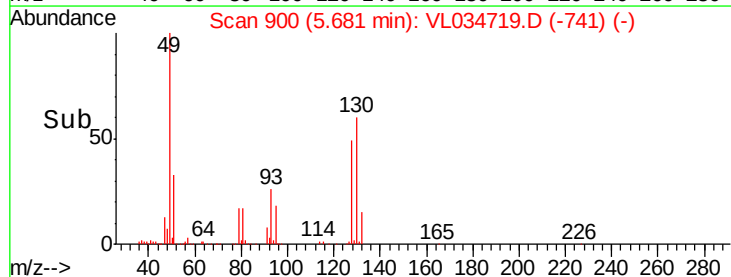
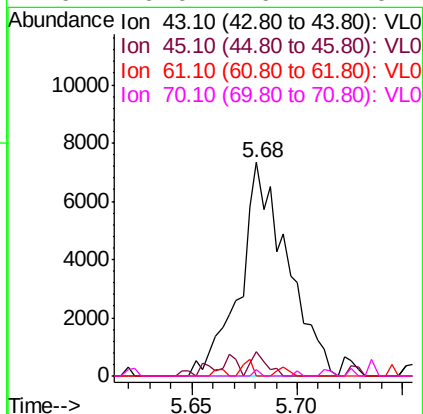
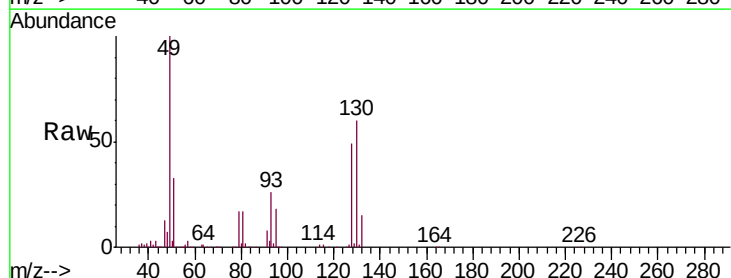
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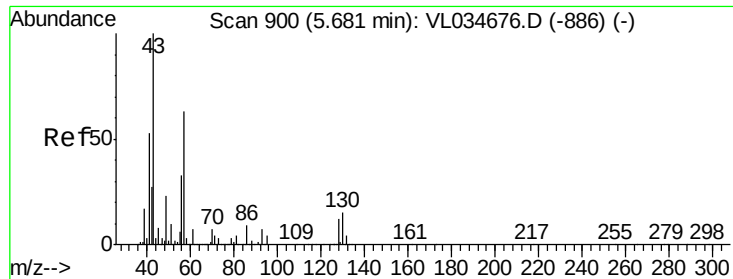
Tgt Ion: 84 Resp: 20646
Ion Ratio Lower Upper
84 100
49 115.2 122.8 184.2#
51 33.4 38.6 58.0#
86 50.7 47.7 71.5



#25
Ethyl Acetate
Concen: 0.051 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL034719.D
Acq: 27 Feb 2020 21:53

Tgt Ion: 43 Resp: 11396
Ion Ratio Lower Upper
43 100
45 8.7 8.2 12.4
61 2.4 7.8 11.6#
70 0.0 6.1 9.1#

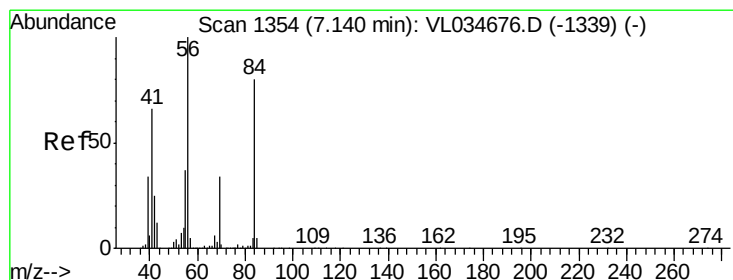
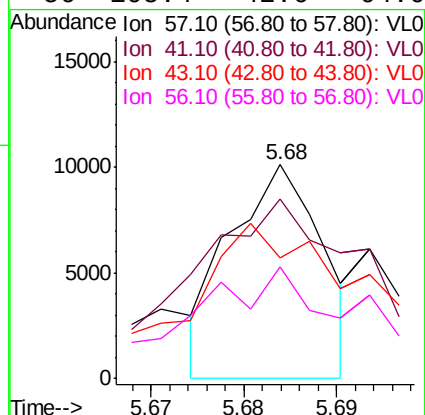
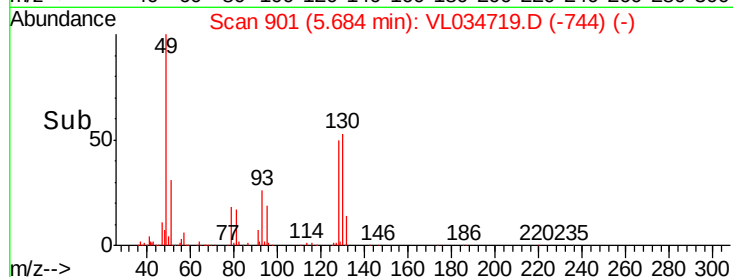
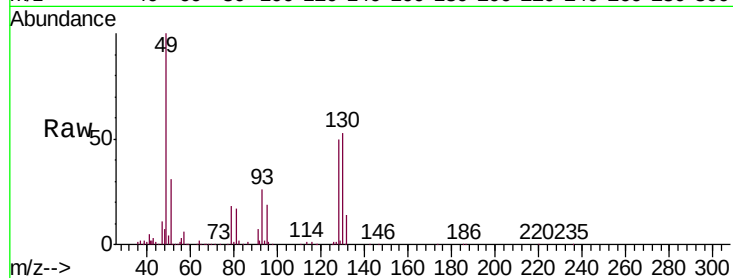




#26
Hexane
Concen: 0.069 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034719.D
Acq: 27 Feb 2020 21:53

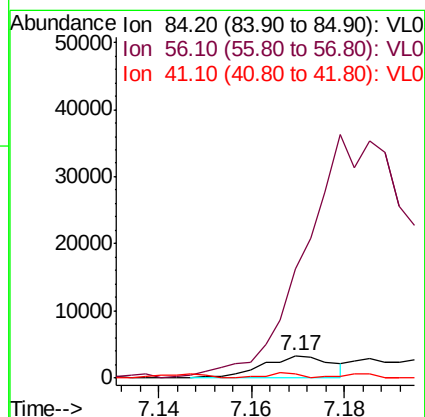
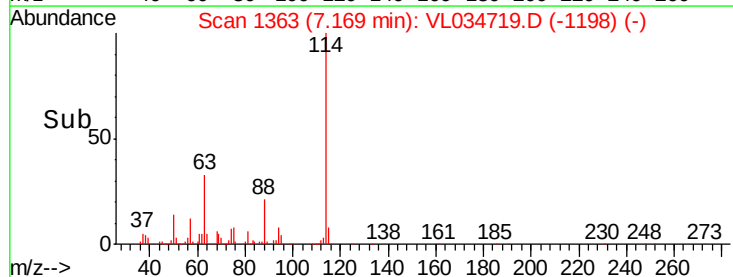
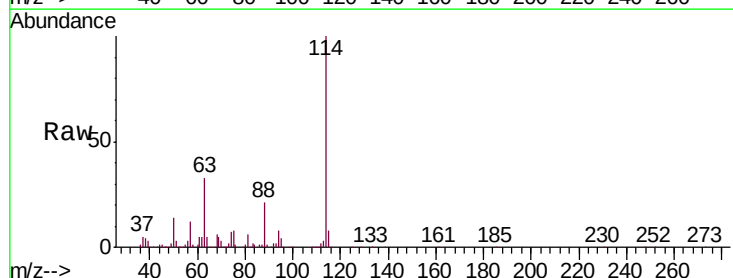
Instrument :
MSVOA_L
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IAS-6-CR-104DL

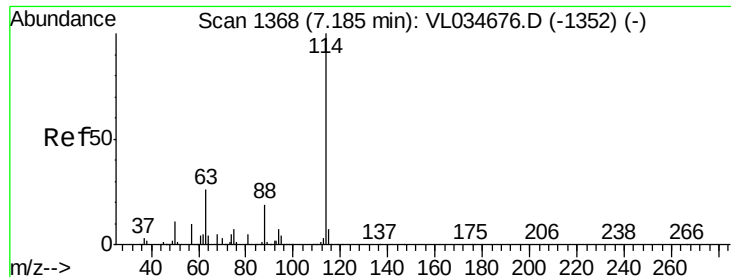
Tgt Ion: 57 Resp: 7051
Ion Ratio Lower Upper
57 100
41 188.8 70.3 105.5#
43 165.6 177.0 265.4#
56 105.4 42.6 64.0#



#30
Cyclohexane
Concen: 0.044 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.03 min
Lab File: VL034719.D
Acq: 27 Feb 2020 21:53

Tgt Ion: 84 Resp: 3464
Ion Ratio Lower Upper
84 100
56 0.0 113.4 170.2#
41 35.6 68.2 102.4#

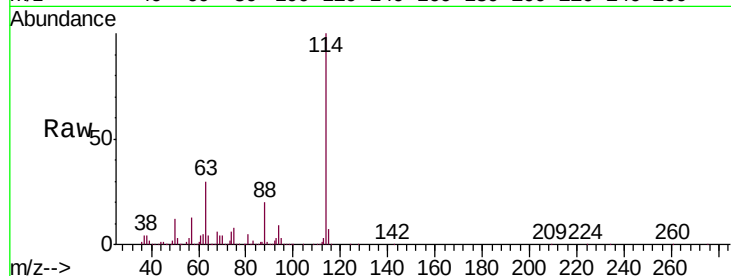




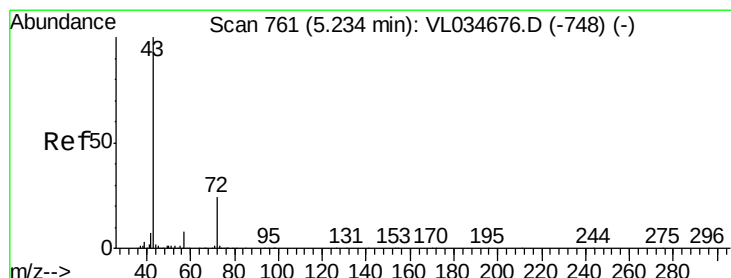
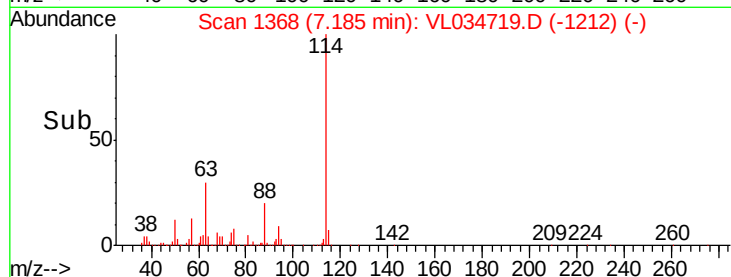
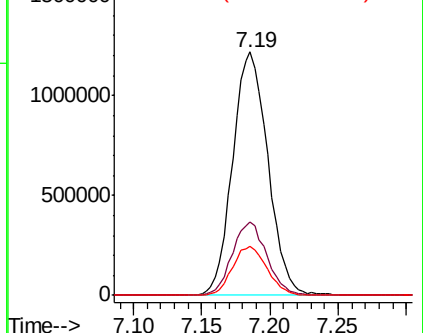
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: VL034719.D
 Acq: 27 Feb 2020 21:53

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

Tgt Ion:114 Resp: 2188428
 Ion Ratio Lower Upper
 114 100
 63 29.7 22.9 34.3
 88 19.8 15.8 23.6

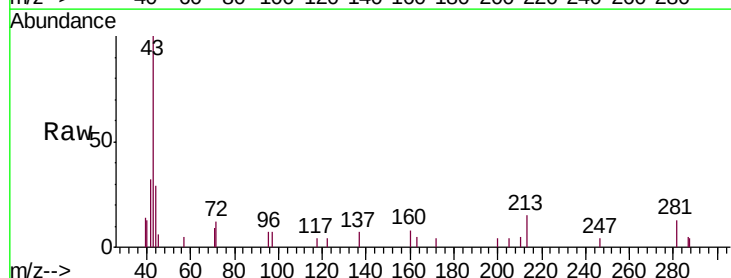


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

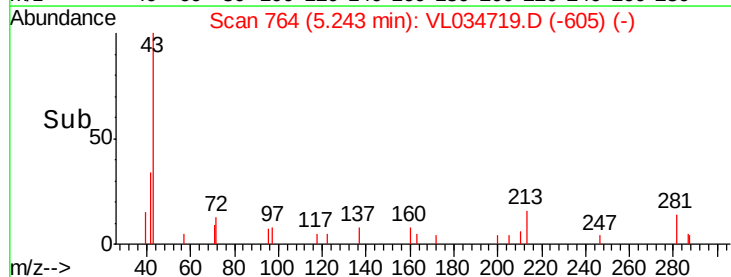
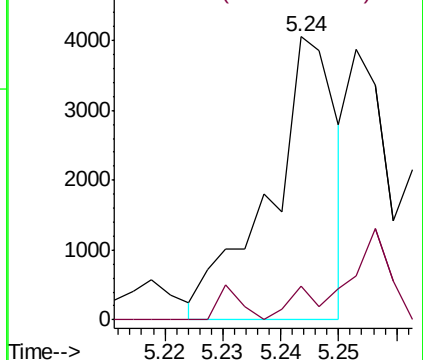


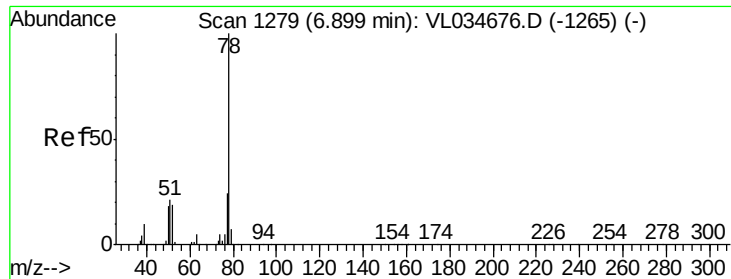
#34
 2-Butanone
 Concen: 0.024 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL034719.D
 Acq: 27 Feb 2020 21:53

Tgt Ion: 43 Resp: 3239
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.027 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL034719.D

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ClientSampleId :

IAS-6-CR-104DL

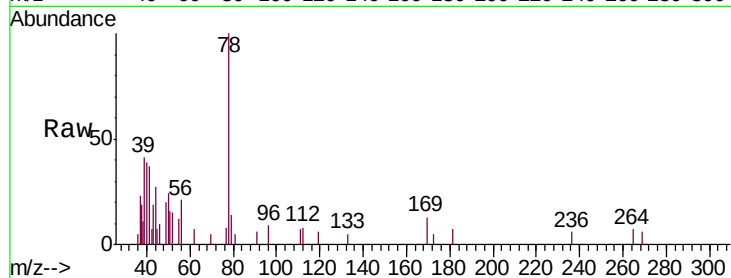
Tgt Ion: 78 Resp: 5153

Ion Ratio Lower Upper

78 100

77 9.1 19.5 29.3#

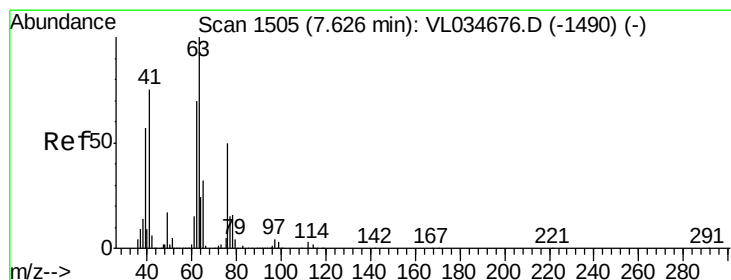
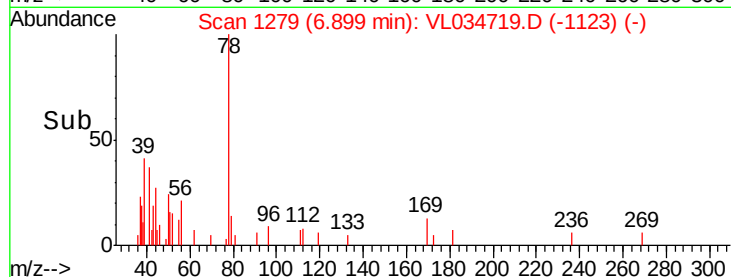
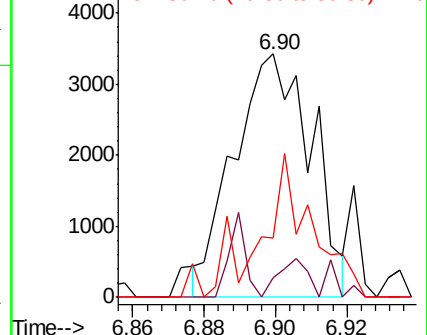
50 12.0 14.6 21.8#



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.546 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.44 min

Lab File: VL034719.D

Acq: 27 Feb 2020 21:53

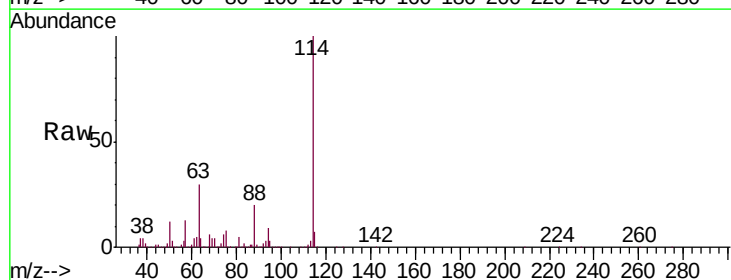
Tgt Ion: 63 Resp: 642650

Ion Ratio Lower Upper

63 100

41 0.2 60.2 90.4#

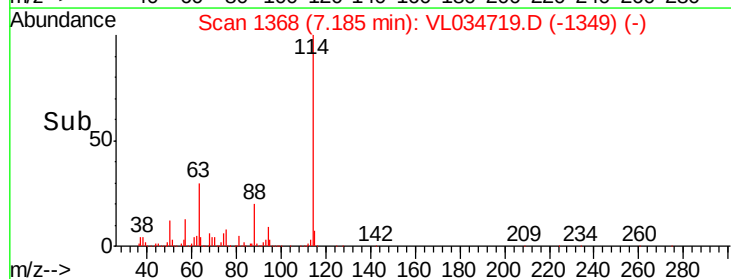
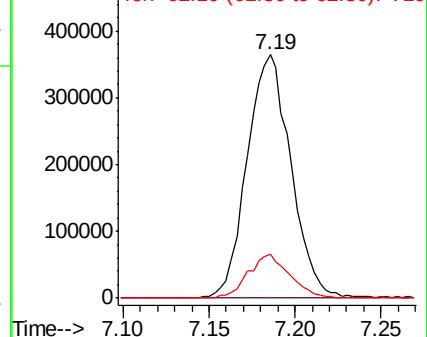
62 17.8 56.3 84.5#

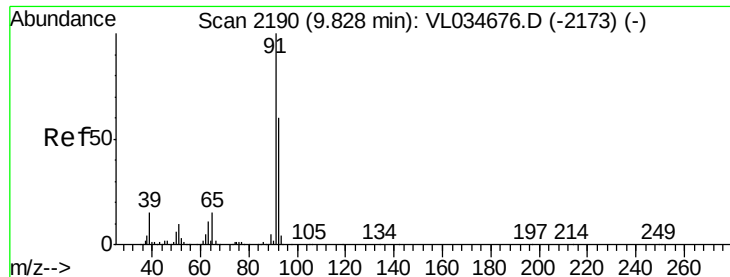


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.147 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.01 min

Lab File: VL034719.D

Acq: 27 Feb 2020 21:53

Instrument :

MSVOA_L

ClientSampleId :

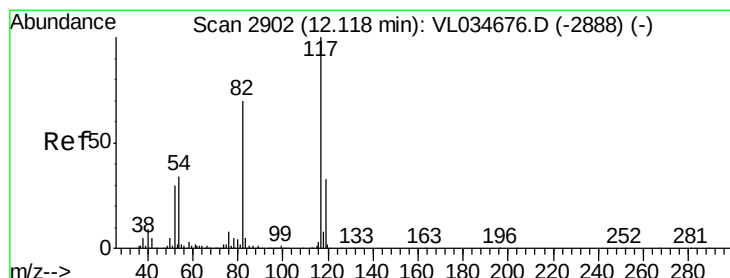
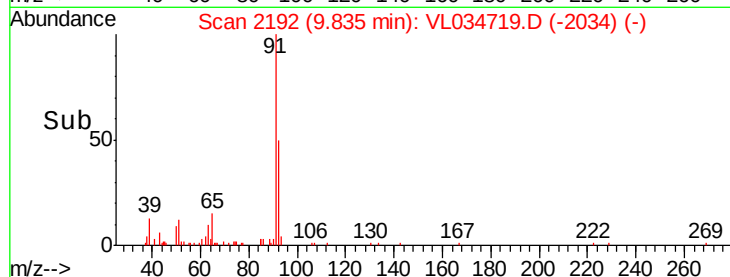
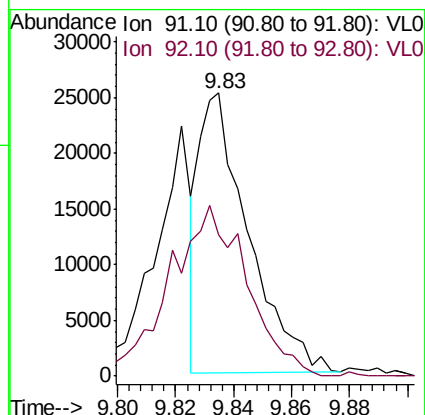
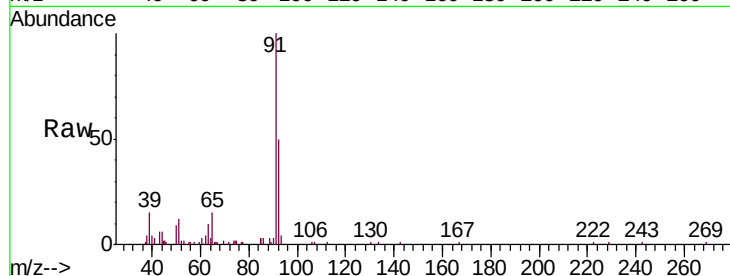
IAS-6-CR-104DL

Tgt Ion: 91 Resp: 29483

Ion Ratio Lower Upper

91 100

92 96.9 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. 0.00 min

Lab File: VL034719.D

Acq: 27 Feb 2020 21:53

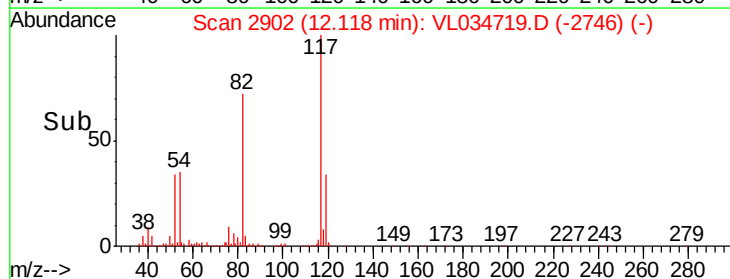
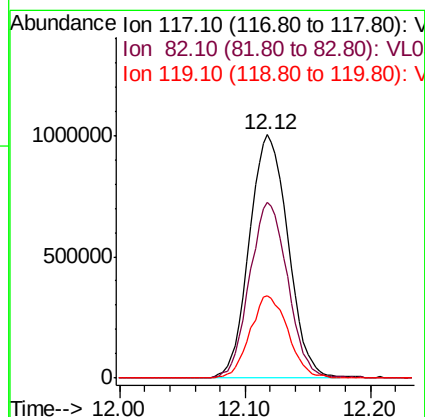
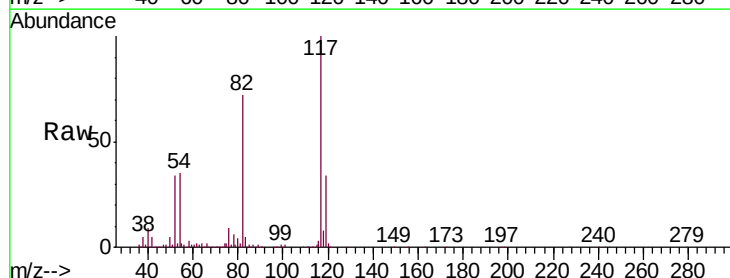
Tgt Ion: 117 Resp: 2148213

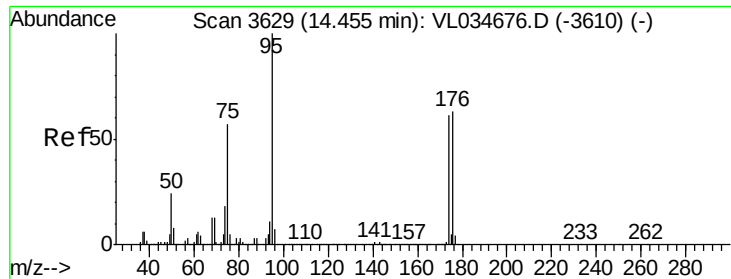
Ion Ratio Lower Upper

117 100

82 71.3 54.1 81.1

119 33.2 27.6 41.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.291 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.00 min

Lab File: VL034719.D

Acq: 27 Feb 2020 21:53

Instrument :

MSVOA_L

ClientSampleId :

IAS-6-CR-104DL

Tgt Ion: 95 Resp: 1812699

Ion Ratio Lower Upper

95 100

174 63.3 50.7 76.1

175 4.5 3.9 5.9

