

Data File : VL034659.D
Acq On : 20 Feb 2020 00:20
Operator : SY/AP
Sample : L1553-05DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Quant Time: Feb 20 09:32:07 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	727855	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1519924	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	1542130	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 1315526 10.09 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.90%

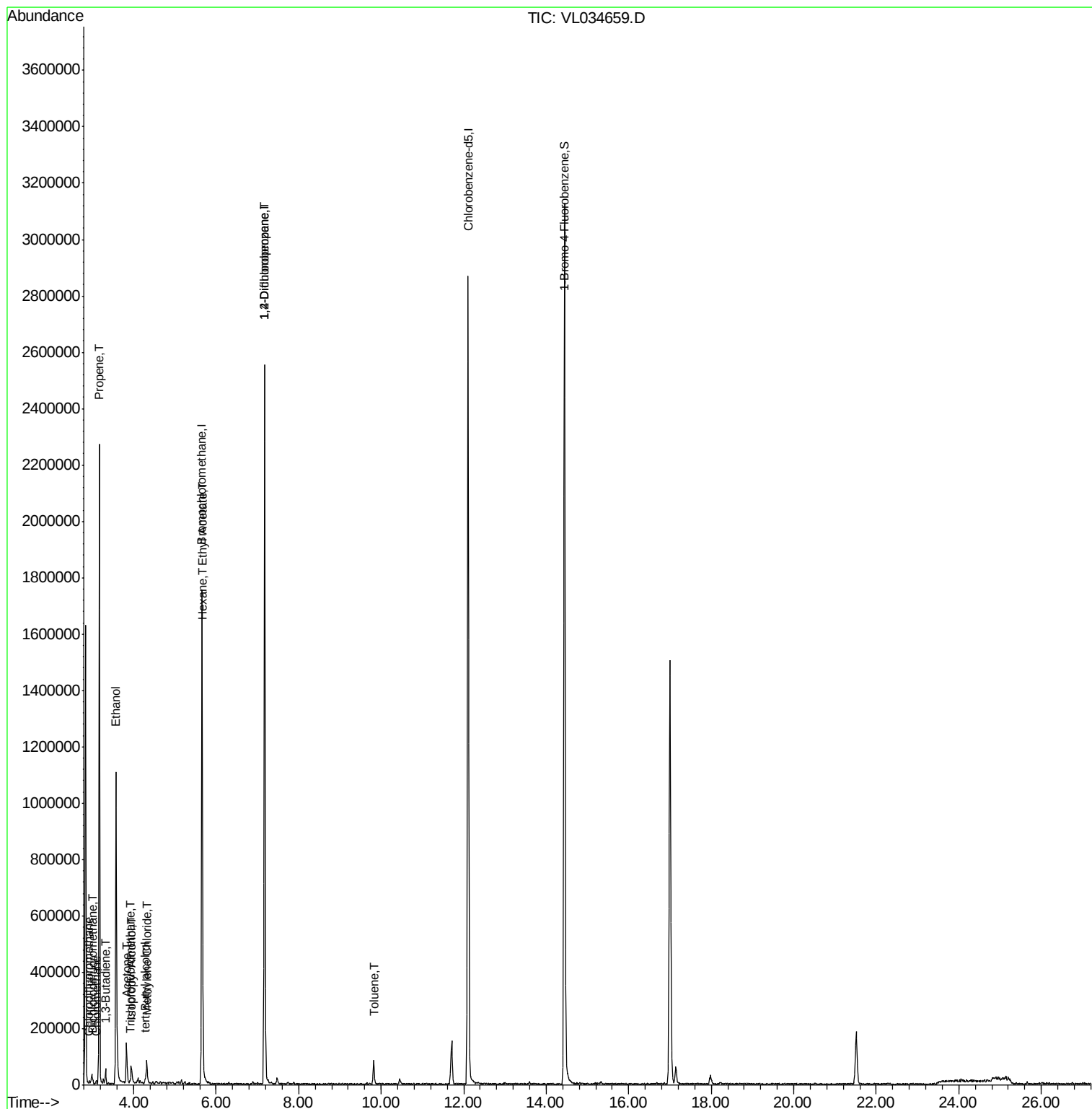
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.01	85	5563	0.035	ppbv #	82
3) Chlorodifluoromethane	2.92	51	8602	0.098	ppbv #	71
4) Chloromethane	3.10	50	3514	0.065	ppbv #	75
9) Propene	3.17	41	629265	18.376	ppbv	85
11) Trichlorofluoromethane	3.92	101	5441	0.037	ppbv #	83
13) Ethanol	3.57	45	1104242	120.388	ppbv	100
15) Acetone	3.83	43	130849	1.223	ppbv	98
16) 1,3-Butadiene	3.32	39	5949	0.140	ppbv #	13
17) tert-Butyl alcohol	4.28	59	4648	0.059	ppbv #	66
19) Isopropyl Alcohol	3.94	45	49301	0.790	ppbv #	88
20) Methylene Chloride	4.32	84	25007	0.614	ppbv #	92
25) Ethyl Acetate	5.67	43	7506	0.043	ppbv #	85
26) Hexane	5.67	57	16613	0.229	ppbv #	44
39) 1,2-Dichloropropane	7.18	63	448511	8.004	ppbv #	19
53) Toluene	9.81	91	27201	0.183	ppbv #	21

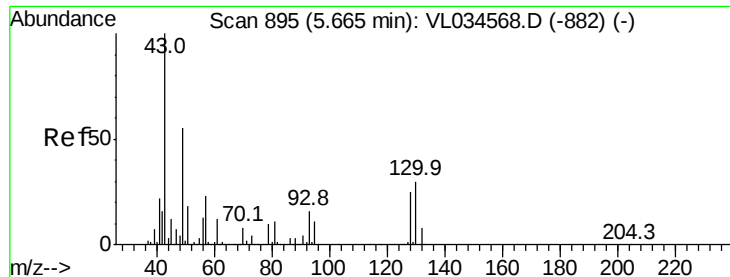
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

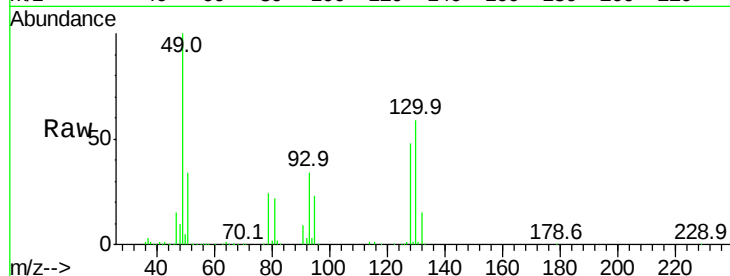
Tgt Ion: 49 Resp: 727855

Ion Ratio Lower Upper

49 100

128 48.2 22.7 68.1

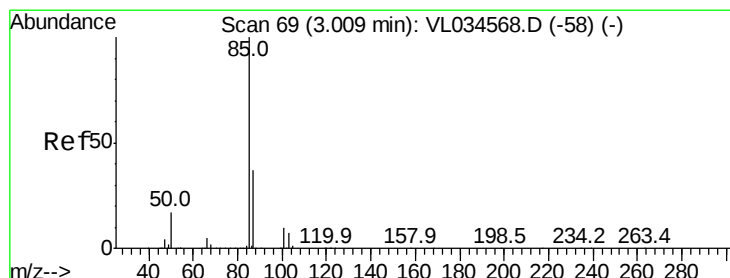
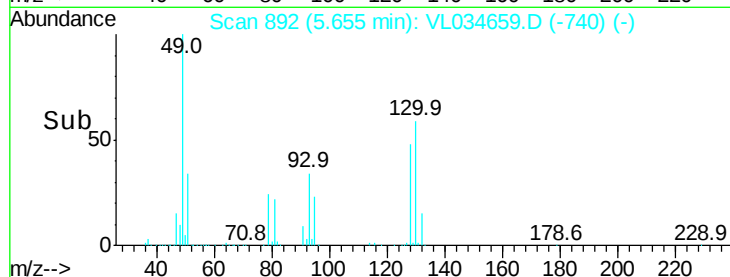
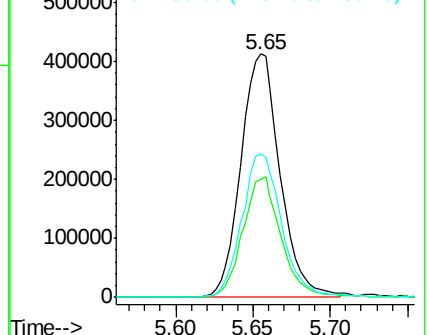
130 60.5 28.6 85.8



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: 0.035 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034659.D

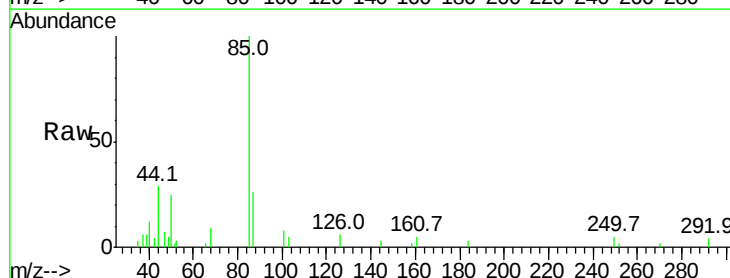
Acq: 20 Feb 2020 00:20

Tgt Ion: 85 Resp: 5563

Ion Ratio Lower Upper

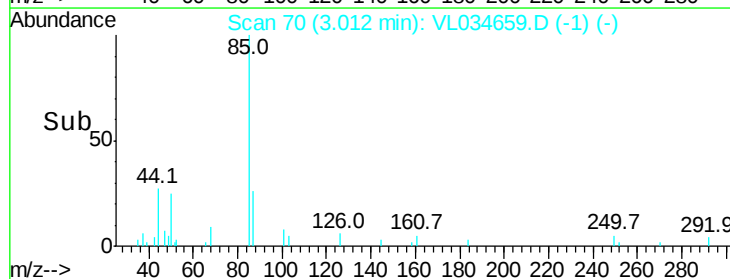
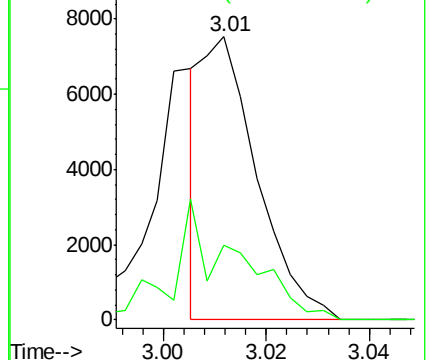
85 100

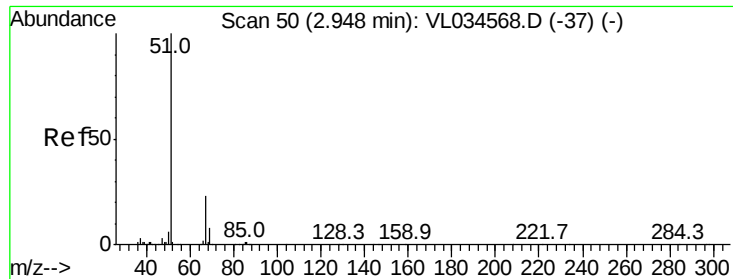
87 26.2 29.5 44.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.098 ppbv

RT: 2.92 min Scan# 42

Delta R.T. -0.03 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

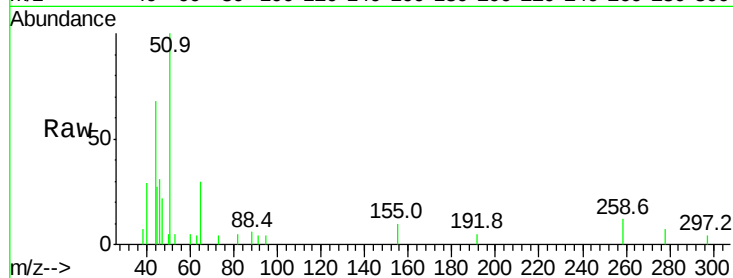
IA-2DL

Tgt Ion: 51 Resp: 8602

Ion Ratio Lower Upper

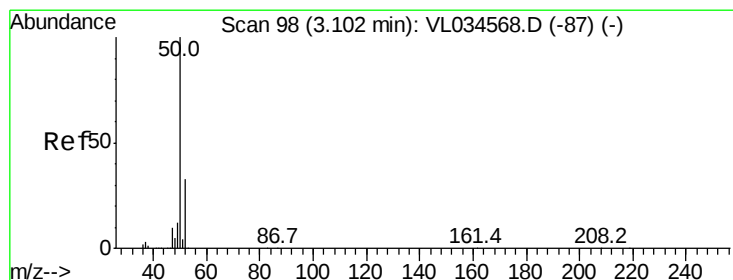
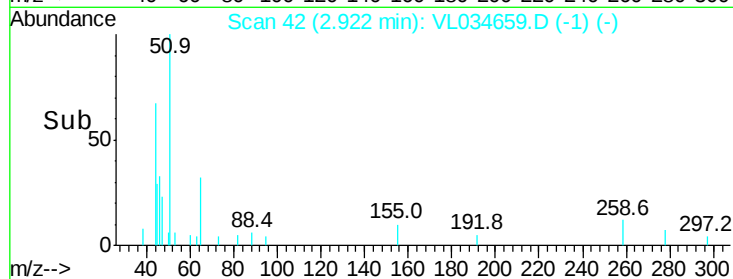
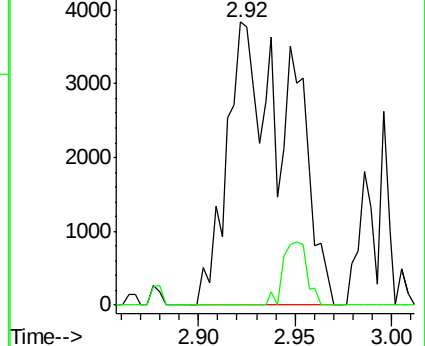
51 100

67 8.5 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.065 ppbv

RT: 3.10 min Scan# 97

Delta R.T. -0.00 min

Lab File: VL034659.D

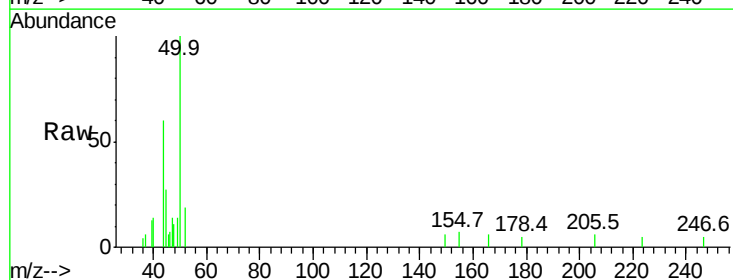
Acq: 20 Feb 2020 00:20

Tgt Ion: 50 Resp: 3514

Ion Ratio Lower Upper

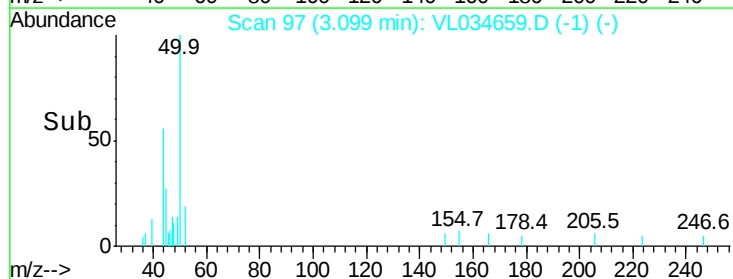
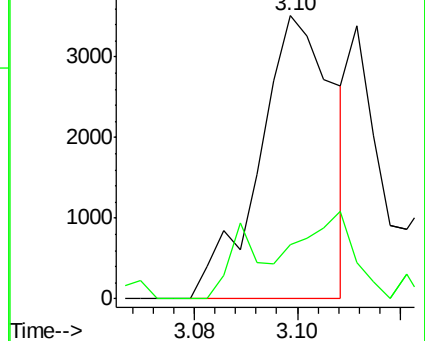
50 100

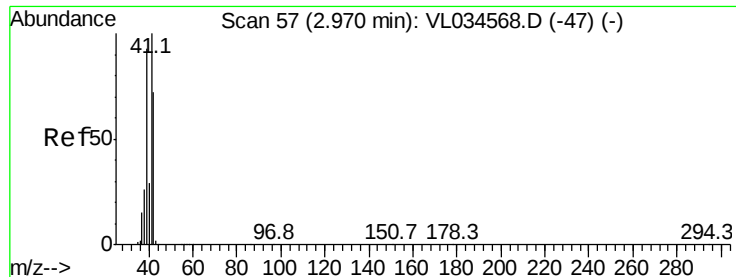
52 19.0 26.6 39.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 18.376 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.20 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

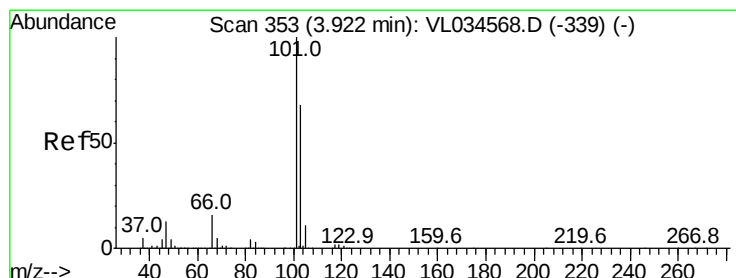
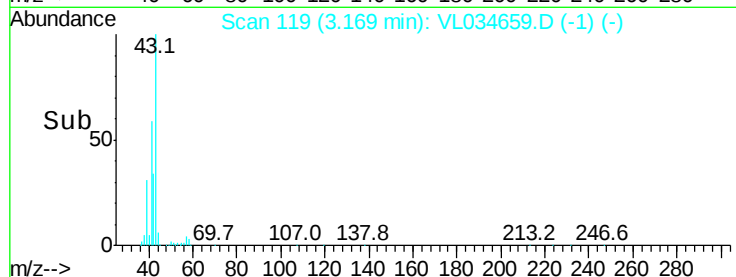
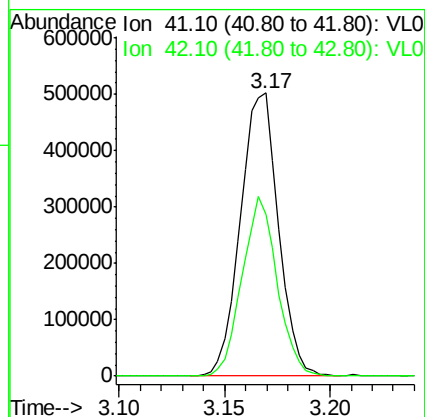
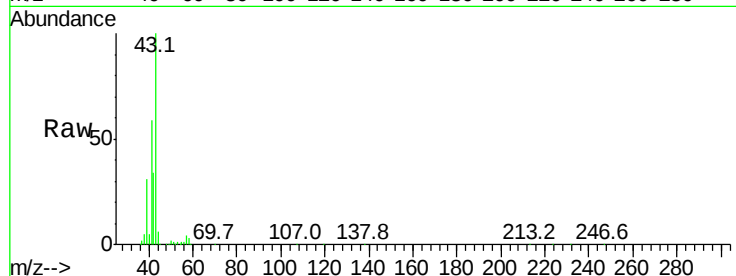
IA-2DL

Tgt Ion: 41 Resp: 629265

Ion Ratio Lower Upper

41 100

42 58.9 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.037 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034659.D

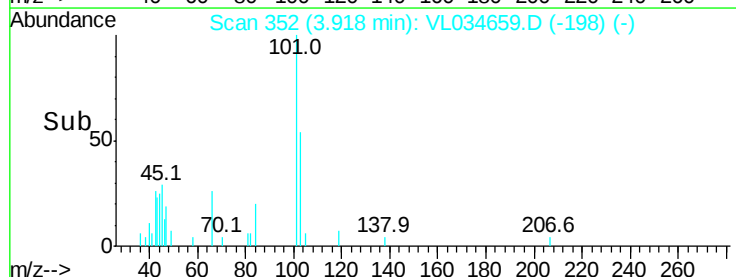
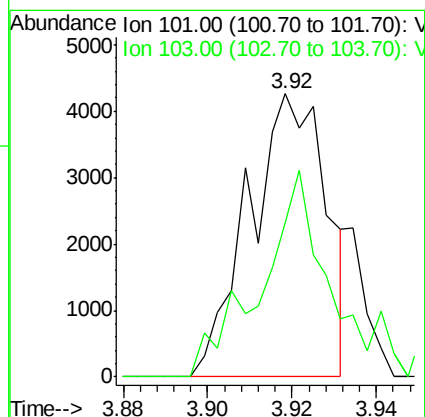
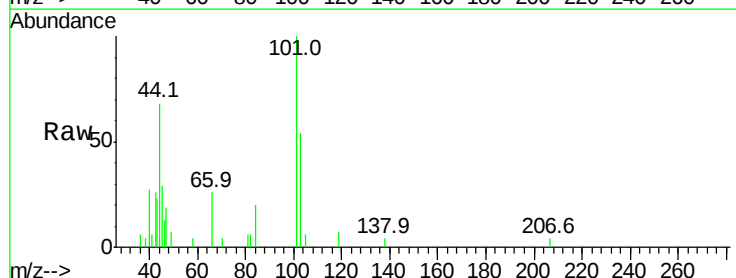
Acq: 20 Feb 2020 00:20

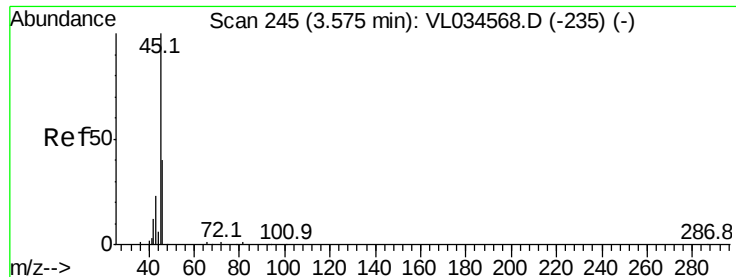
Tgt Ion: 101 Resp: 5441

Ion Ratio Lower Upper

101 100

103 54.4 54.4 81.6#





#13

Ethanol

Concen: 120.388 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.01 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

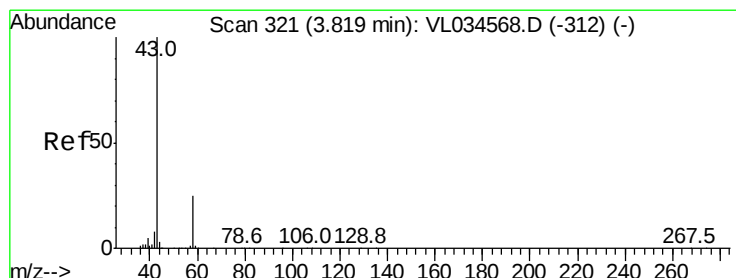
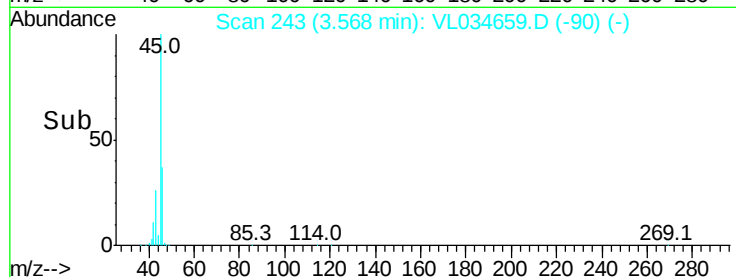
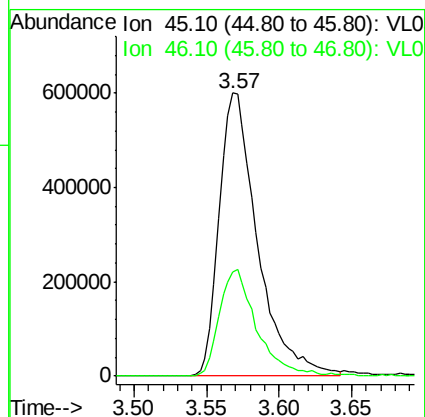
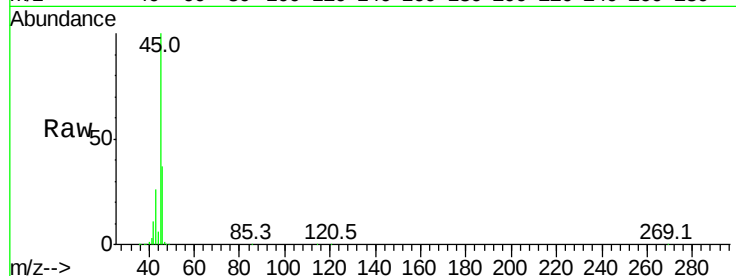
IA-2DL

Tgt Ion: 45 Resp: 1104242

Ion Ratio Lower Upper

45 100

46 37.2 14.8 59.2



#15

Acetone

Concen: 1.223 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL034659.D

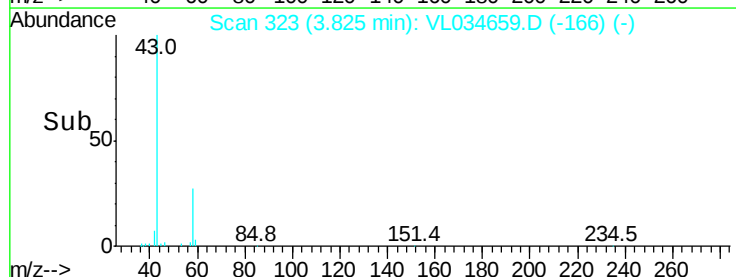
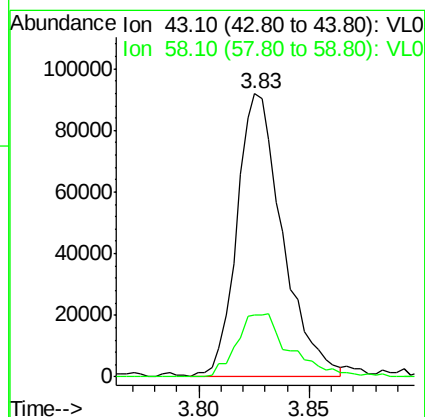
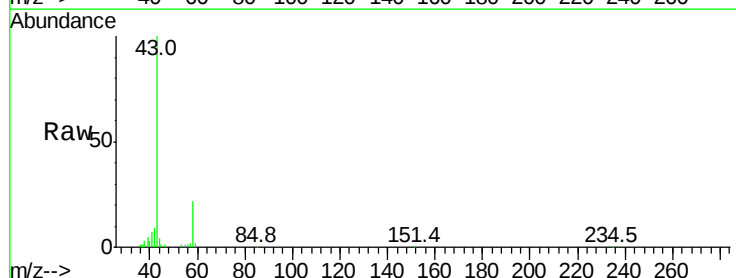
Acq: 20 Feb 2020 00:20

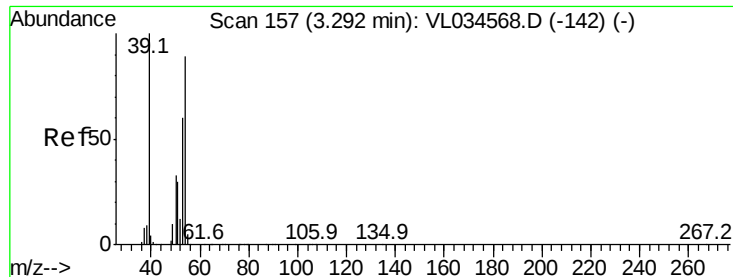
Tgt Ion: 43 Resp: 130849

Ion Ratio Lower Upper

43 100

58 26.4 20.3 30.5





#16

1,3-Butadiene

Concen: 0.140 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.03 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

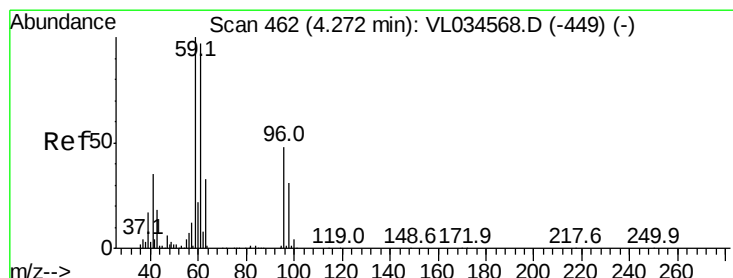
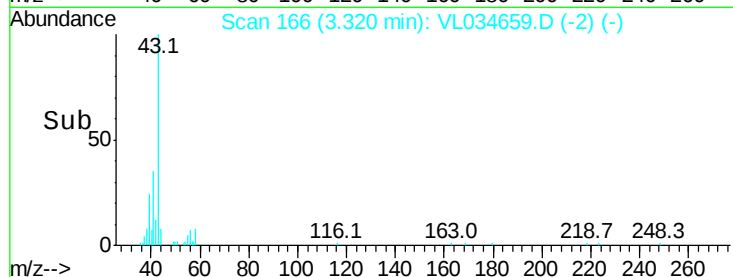
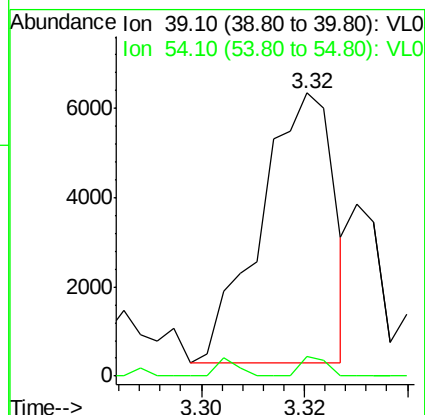
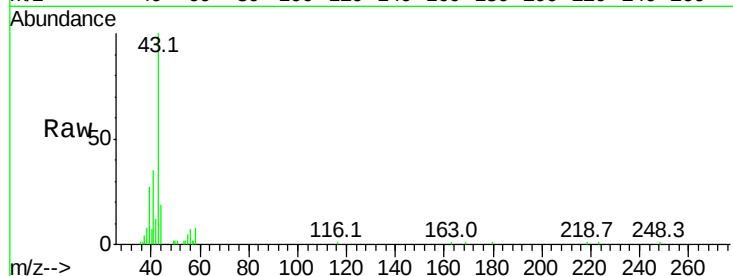
IA-2DL

Tgt Ion: 39 Resp: 5949

Ion Ratio Lower Upper

39 100

54 4.6 66.7 100.1#



#17

tert-Butyl alcohol

Concen: 0.059 ppbv

RT: 4.28 min Scan# 464

Delta R.T. 0.01 min

Lab File: VL034659.D

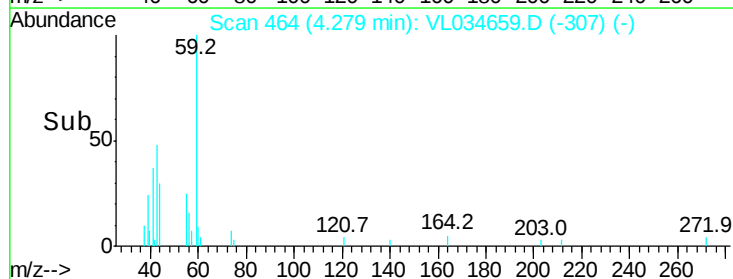
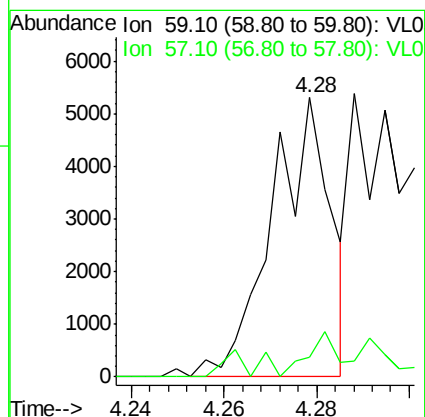
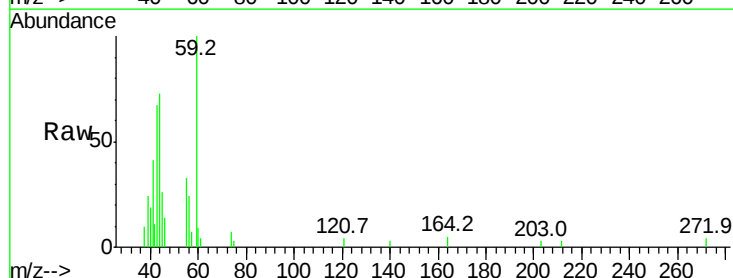
Acq: 20 Feb 2020 00:20

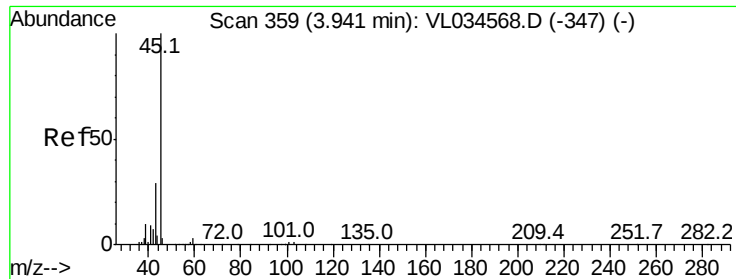
Tgt Ion: 59 Resp: 4648

Ion Ratio Lower Upper

59 100

57 23.7 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.790 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

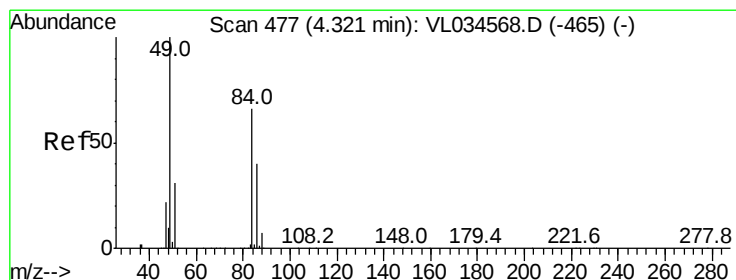
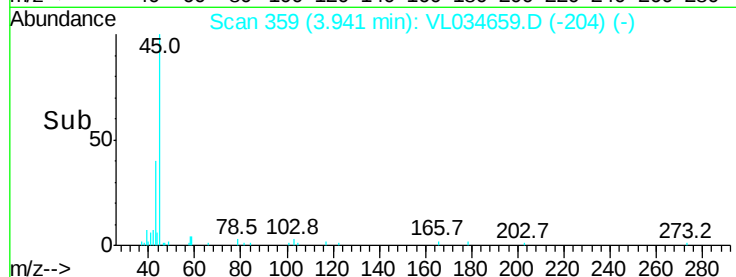
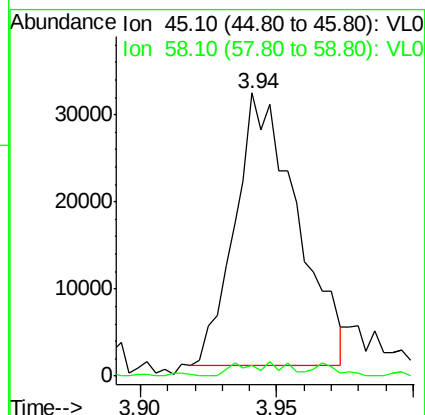
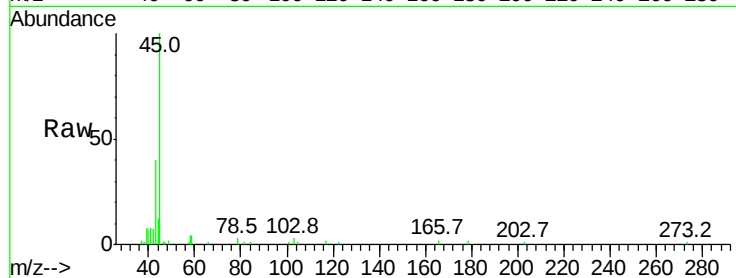
IA-2DL

Tgt Ion: 45 Resp: 49301

Ion Ratio Lower Upper

45 100

58 6.1 1.7 2.5#



#20

Methylene Chloride

Concen: 0.614 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.00 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Tgt Ion: 84 Resp: 25007

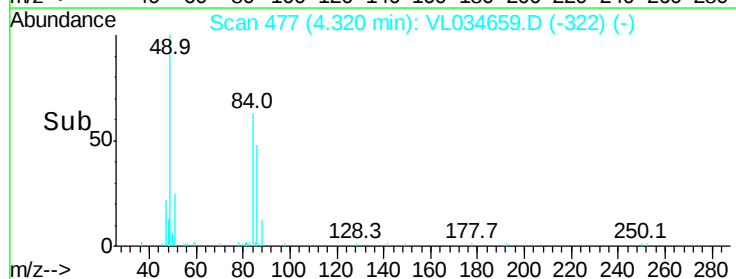
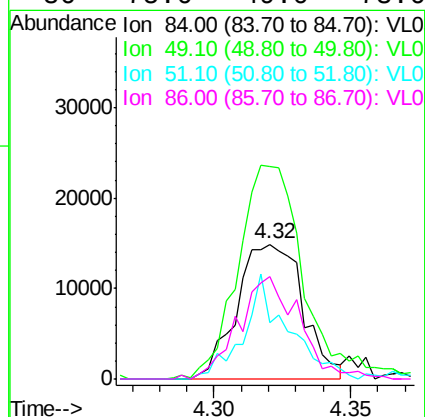
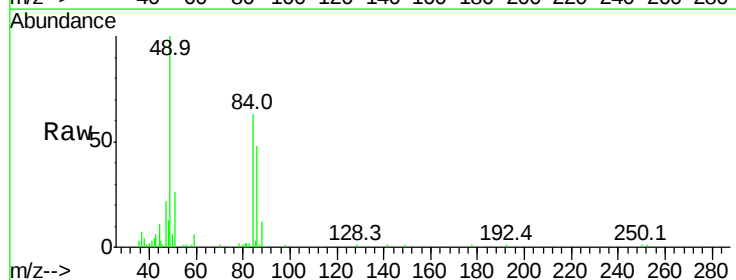
Ion Ratio Lower Upper

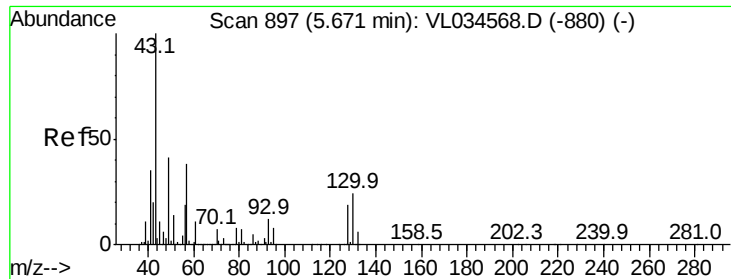
84 100

49 156.4 122.4 183.6

51 41.6 38.6 57.8

86 75.6 49.0 73.6#





#25

Ethyl Acetate

Concen: 0.043 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tgt Ion: 43 Resp: 7506

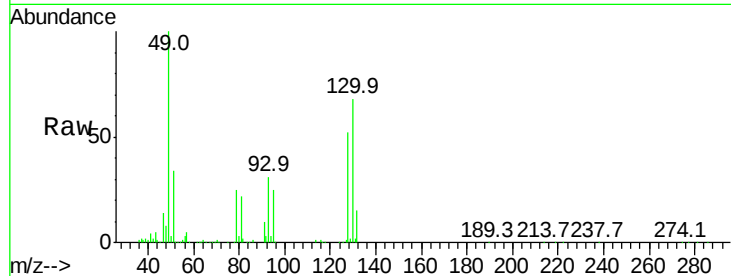
Ion Ratio Lower Upper

43 100

45 0.0 8.5 12.7#

61 5.8 7.8 11.6#

70 7.0 5.8 8.8

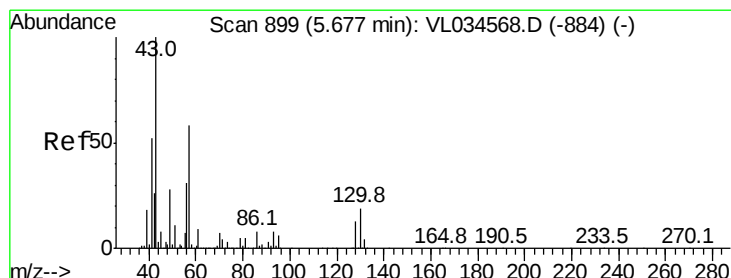
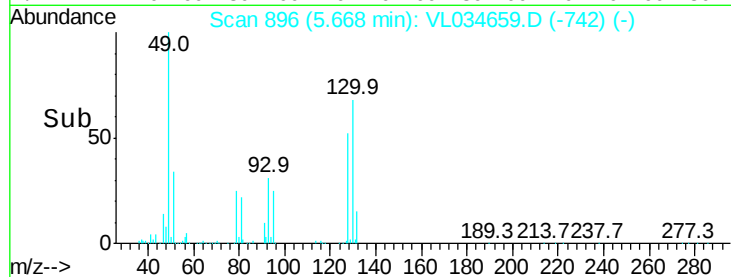
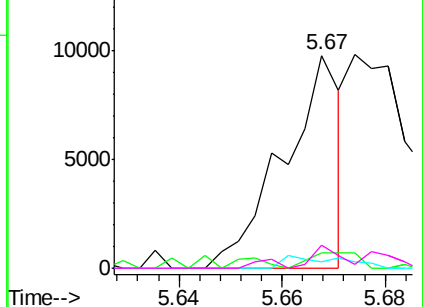


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.229 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Tgt Ion: 57 Resp: 16613

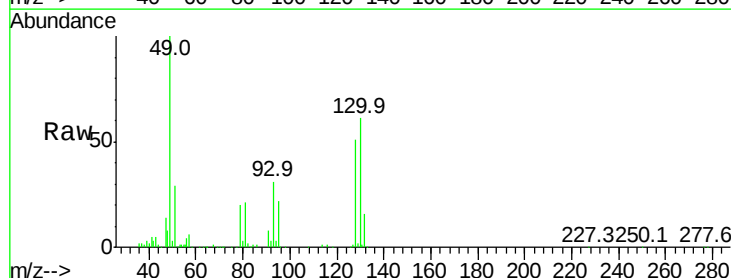
Ion Ratio Lower Upper

57 100

41 116.0 76.2 114.2#

43 102.8 189.9 284.9#

56 65.7 43.6 65.4#

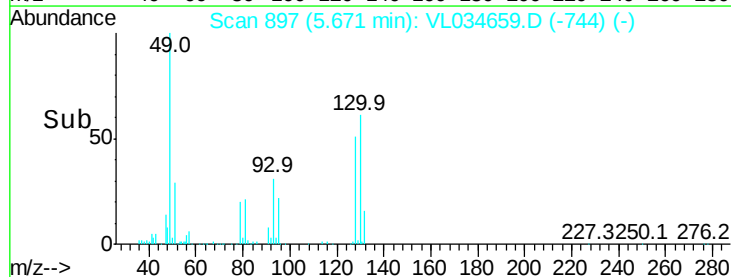
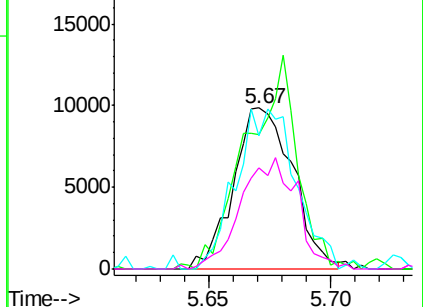


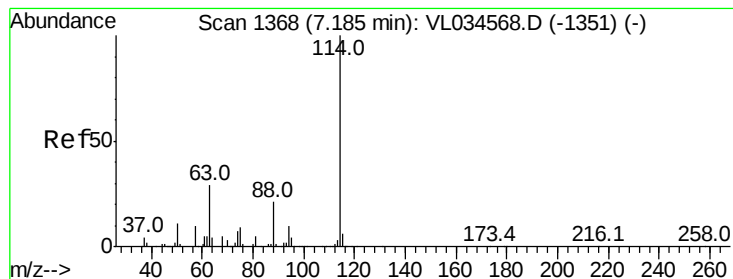
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

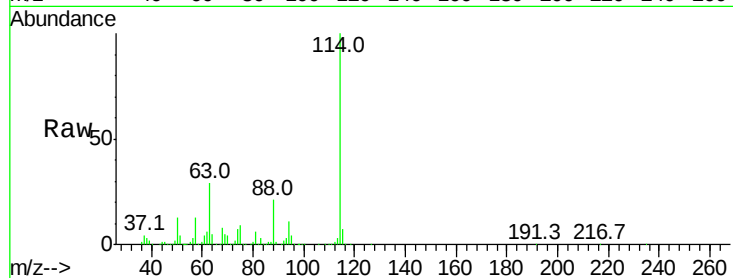
Tgt Ion:114 Resp: 1519924

Ion Ratio Lower Upper

114 100

63 29.6 24.1 36.1

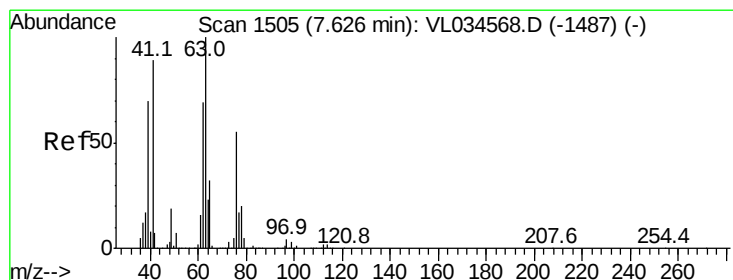
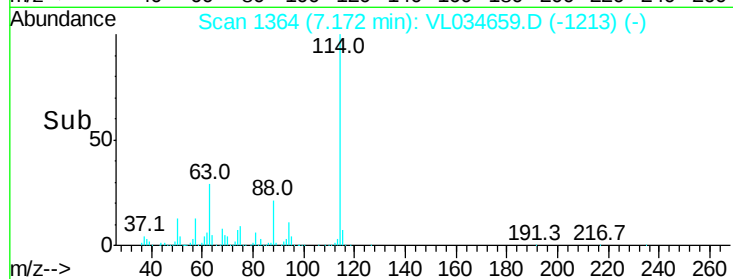
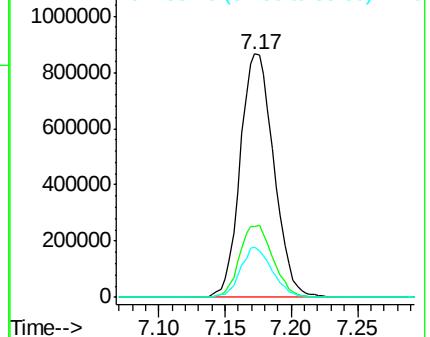
88 19.5 15.9 23.9



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



#39

1,2-Dichloropropane

Concen: 8.004 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.45 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

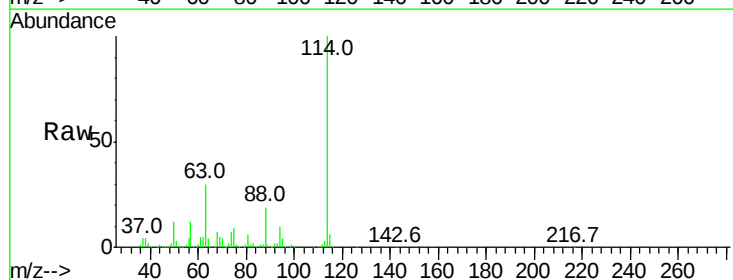
Tgt Ion: 63 Resp: 448511

Ion Ratio Lower Upper

63 100

41 0.0 71.0 106.4#

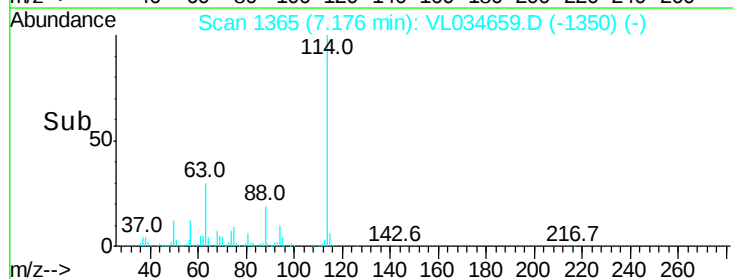
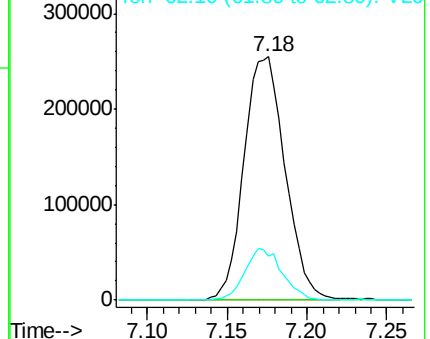
62 17.9 55.4 83.0#

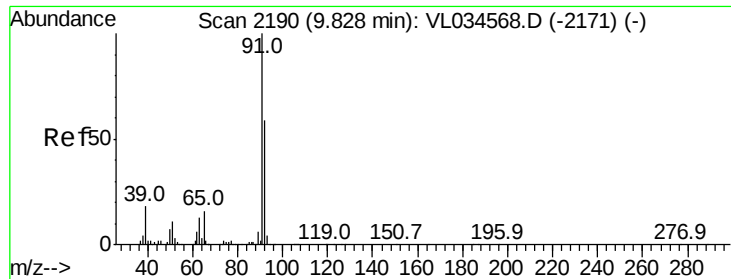


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.183 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

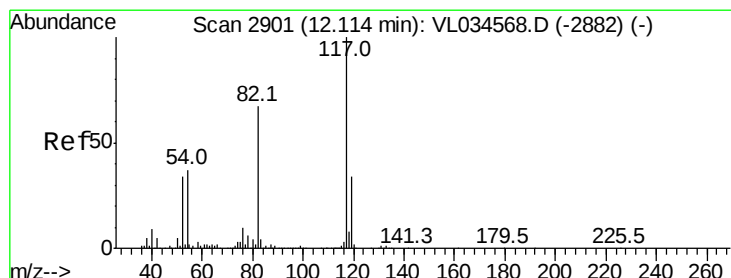
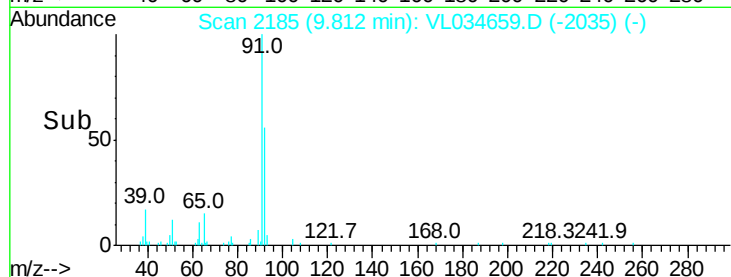
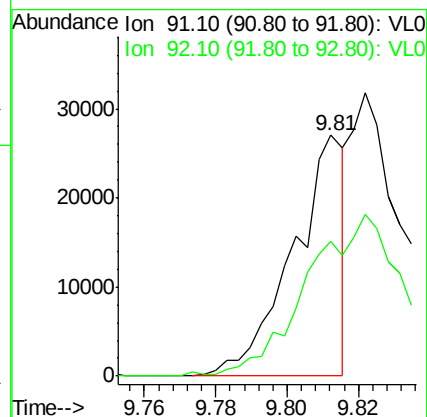
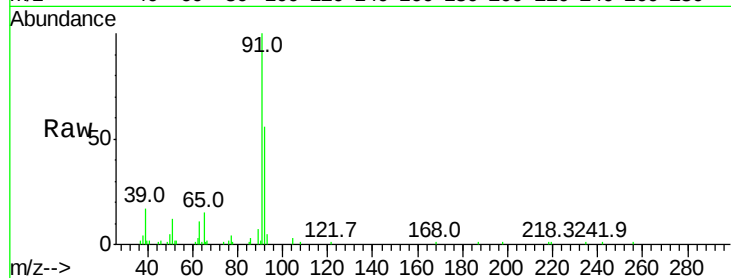
IA-2DL

Tgt Ion: 91 Resp: 27201

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

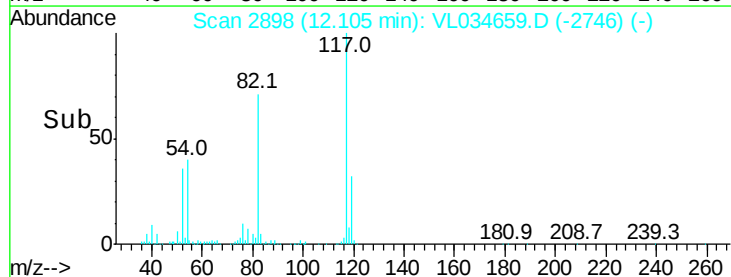
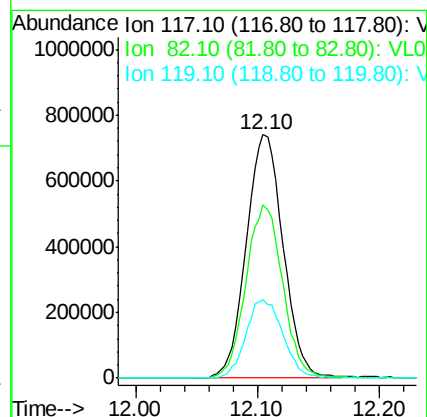
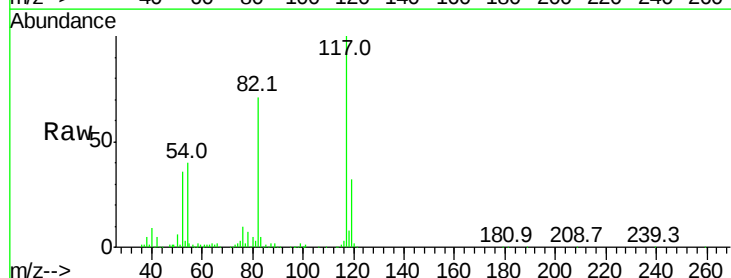
Tgt Ion: 117 Resp: 1542130

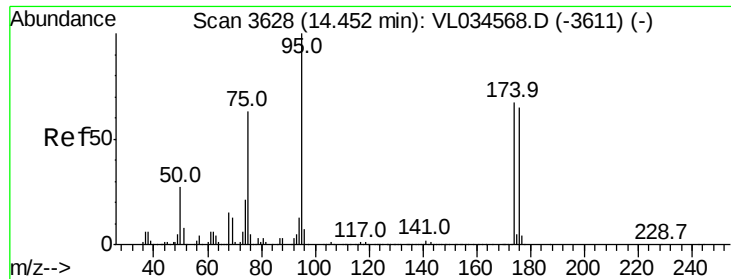
Ion Ratio Lower Upper

117 100

82 71.0 54.2 81.4

119 32.3 26.1 39.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.094 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.01 min

Lab File: VL034659.D

Acq: 20 Feb 2020 00:20

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

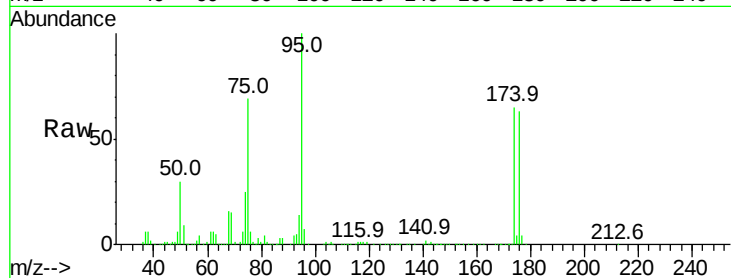
Tgt Ion: 95 Resp: 1315526

Ion Ratio Lower Upper

95 100

174 64.2 52.3 78.5

175 4.7 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

