

Data File : VL032649.D
Acq On : 17 Oct 2018 20:42
Operator : SY/AP
Sample : J5500-02DL2 1600X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL2

Quant Time: Oct 18 09:56:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 17 08:55:11 2018
QLast Update : Wed Oct 17 08:55:11 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1166621	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2498979	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	2606223	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1891596	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

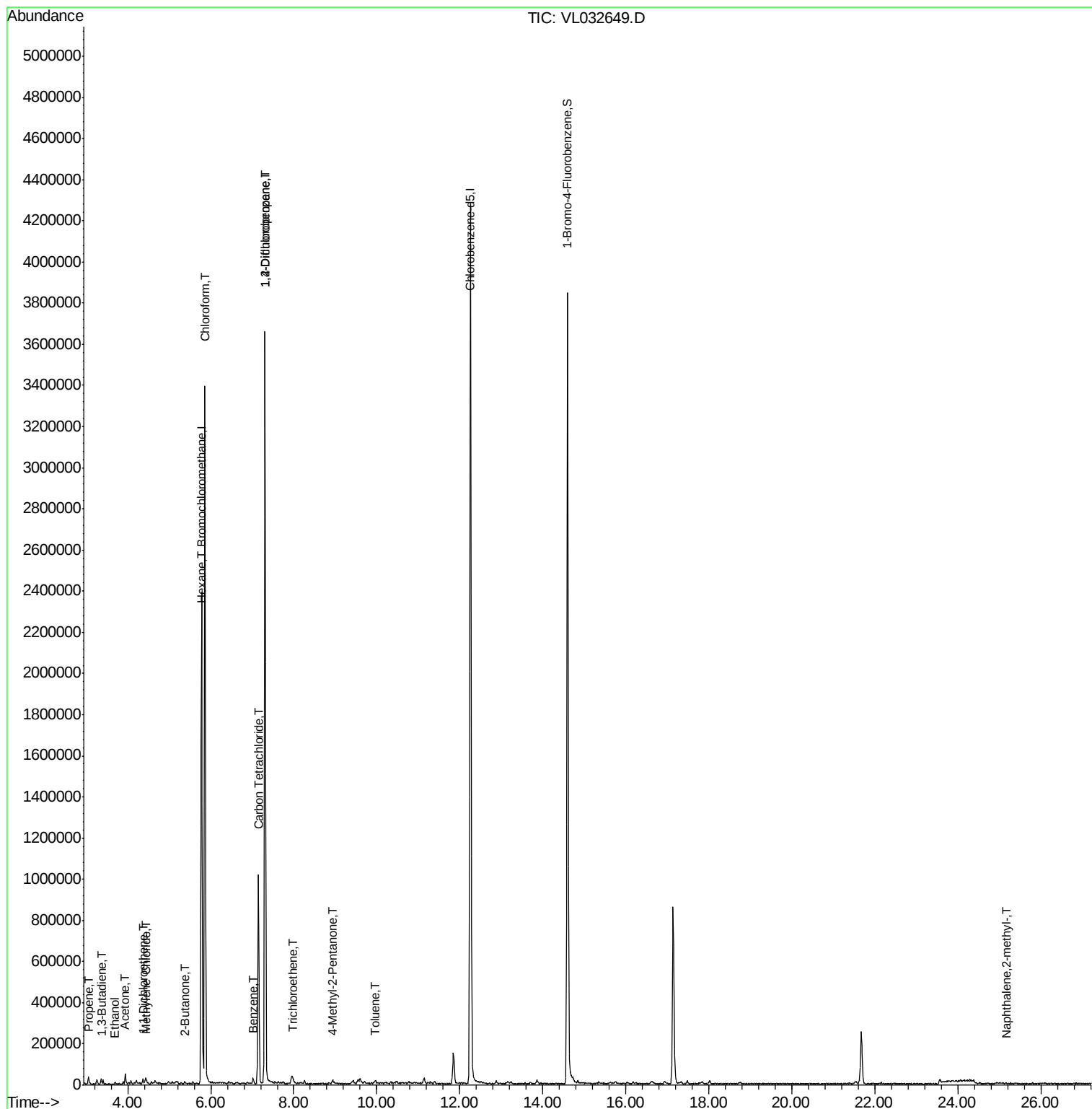
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	559	Below Cal		96
9) Propene	3.06	41	11815	0.330	ppbv #	81
13) Ethanol	3.68	45	1854	0.167	ppbv #	36
15) Acetone	3.94	43	43281	0.417	ppbv	98
16) 1,3-Butadiene	3.37	39	1425	0.037	ppbv #	1
18) 1,1-Dichloroethene	4.37	96	6664	0.135	ppbv	83
20) Methylene Chloride	4.42	84	4421	0.095	ppbv #	61
26) Hexane	5.79	57	3763	0.034	ppbv #	1
29) Chloroform	5.86	83	2339848	12.065	ppbv	98
34) 2-Butanone	5.37	43	12316	0.089	ppbv	97
35) Carbon Tetrachloride	7.15	117	611225	3.156	ppbv	98
36) Benzene	7.02	78	7922	0.039	ppbv	93
38) Trichloroethene	7.98	130	4782	0.063	ppbv #	90
39) 1,2-Dichloropropane	7.31	63	679627	8.248	ppbv #	26
50) 4-Methyl-2-Pentanone	8.93	43	6330	0.031	ppbv #	38
53) Toluene	9.96	91	6988	0.030	ppbv #	22
80) Naphthalene,2-methyl-	25.16	142	364	0.745	ppbv #	63

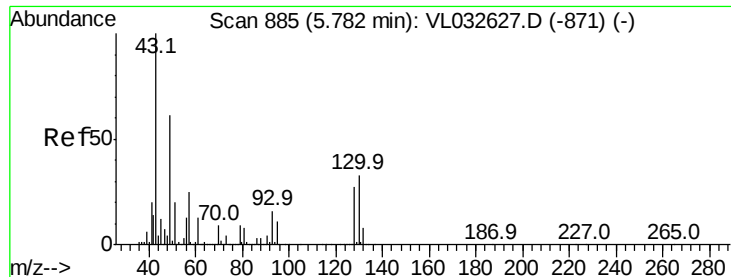
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL032649.D

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Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

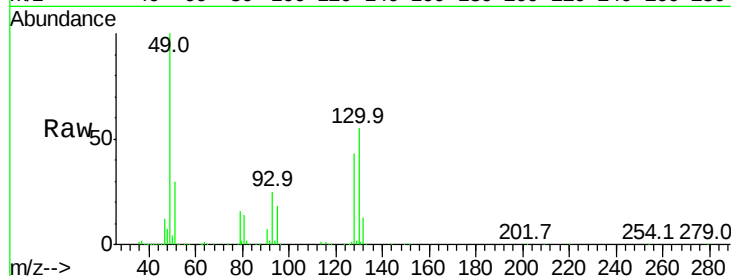
Tgt Ion: 49 Resp: 1166621

Ion Ratio Lower Upper

49 100

128 45.1 22.3 66.8

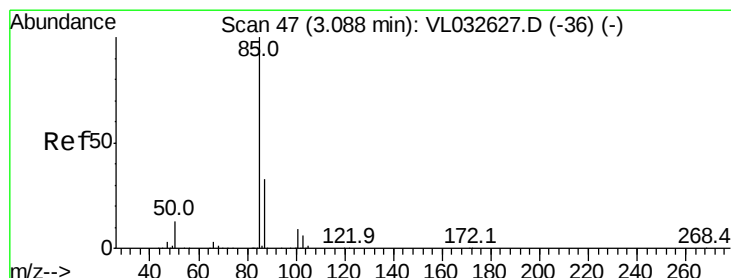
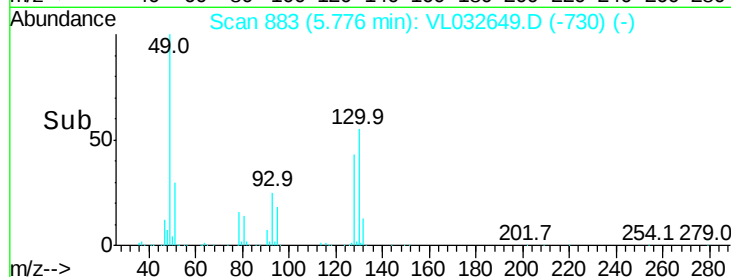
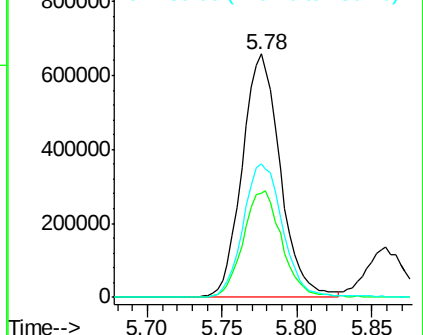
130 57.6 28.4 85.3



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: Below Cal

RT: 3.06 min Scan# 37

Delta R.T. -0.03 min

Lab File: VL032649.D

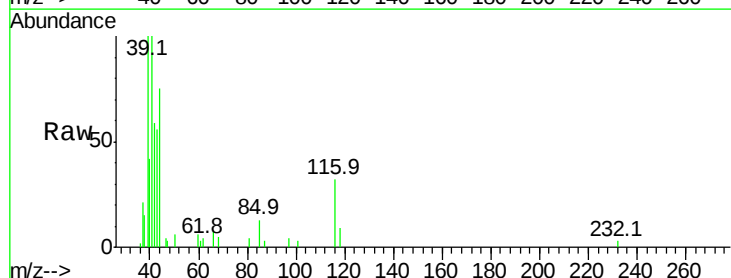
Acq: 17 Oct 2018 20:42

Tgt Ion: 85 Resp: 559

Ion Ratio Lower Upper

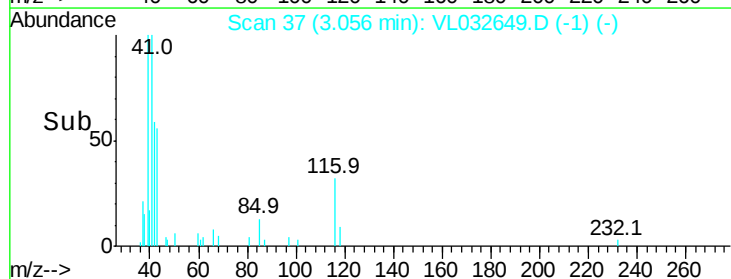
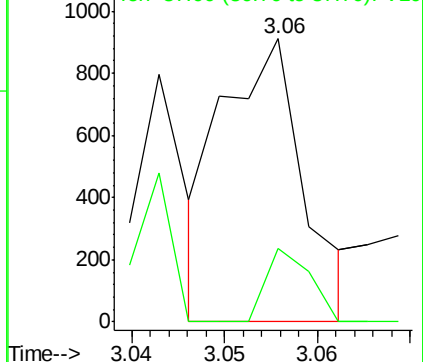
85 100

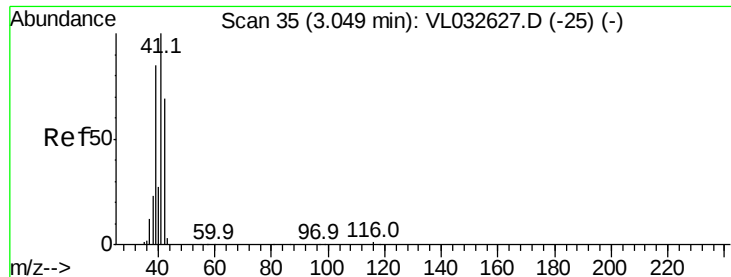
87 35.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.330 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032649.D

Acq: 17 Oct 2018 20:42

Instrument :

MSVOA_L

ClientSampleId :

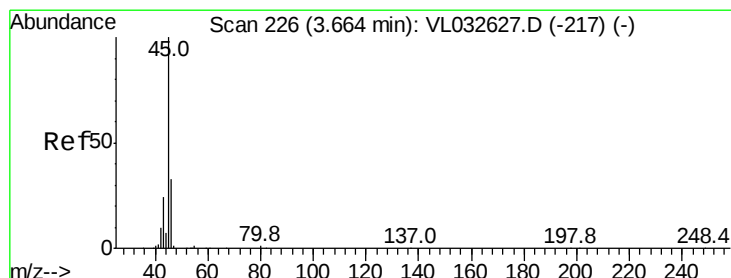
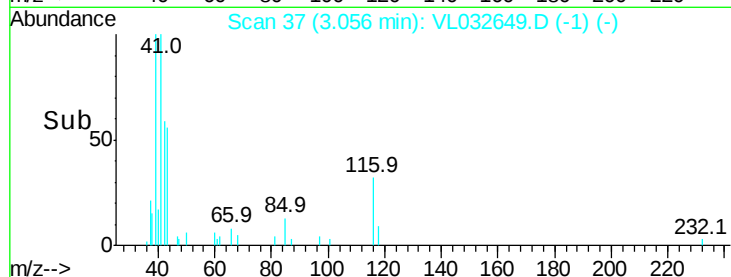
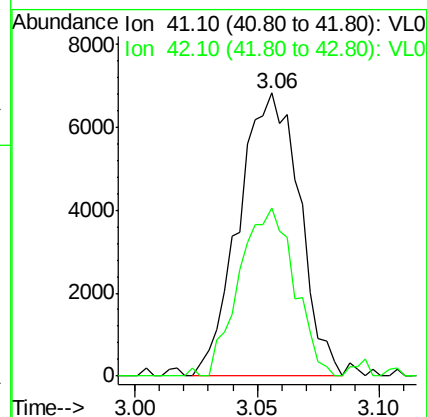
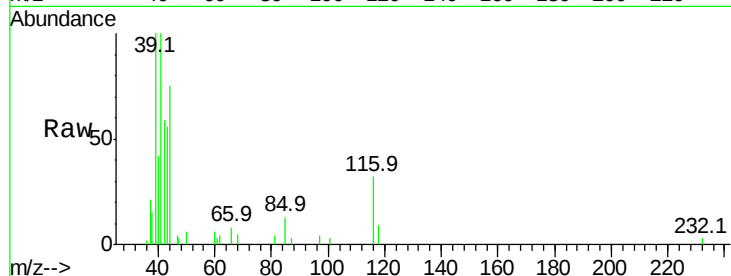
SS04-MIVIDL2

Tgt Ion: 41 Resp: 11815

Ion Ratio Lower Upper

41 100

42 53.9 55.4 83.0#



#13

Ethanol

Concen: 0.167 ppbv

RT: 3.68 min Scan# 231

Delta R.T. 0.02 min

Lab File: VL032649.D

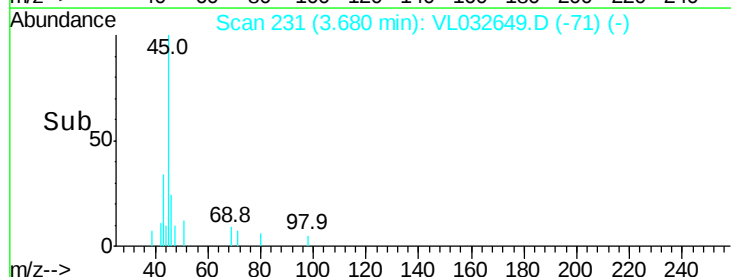
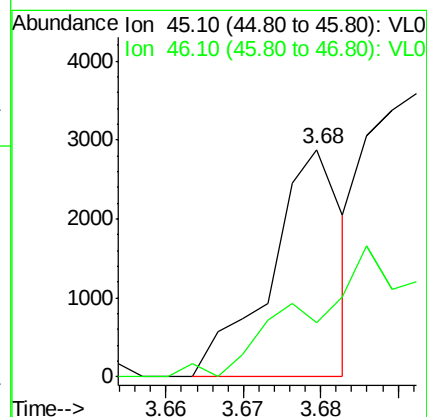
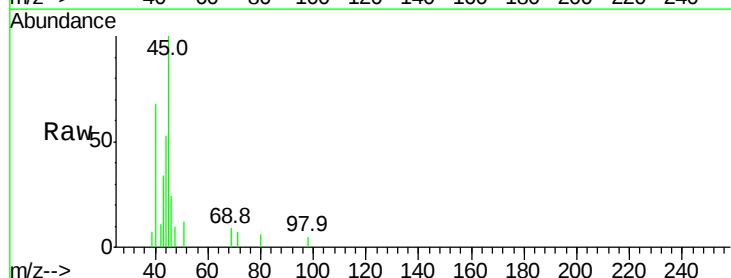
Acq: 17 Oct 2018 20:42

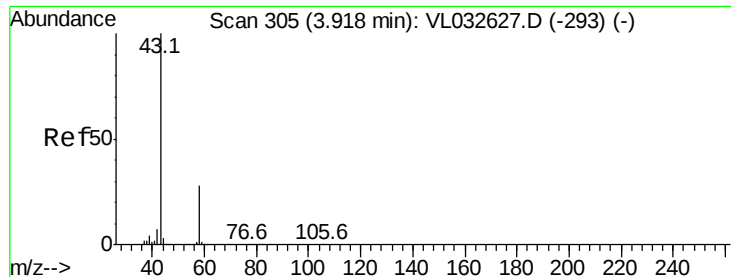
Tgt Ion: 45 Resp: 1854

Ion Ratio Lower Upper

45 100

46 0.0 15.4 61.8#





#15

Acetone

Concen: 0.417 ppbv

RT: 3.94 min Scan# 311

Delta R.T. 0.02 min

Lab File: VL032649.D

Acq: 17 Oct 2018 20:42

Instrument :

MSVOA_L

ClientSampleId :

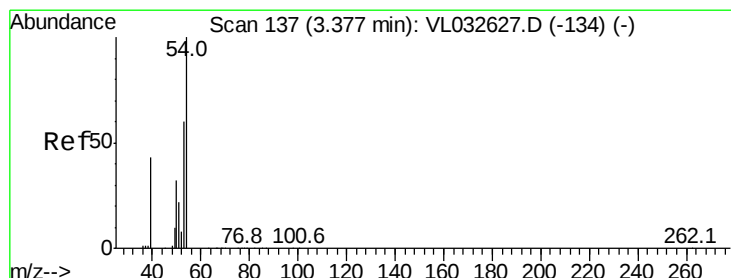
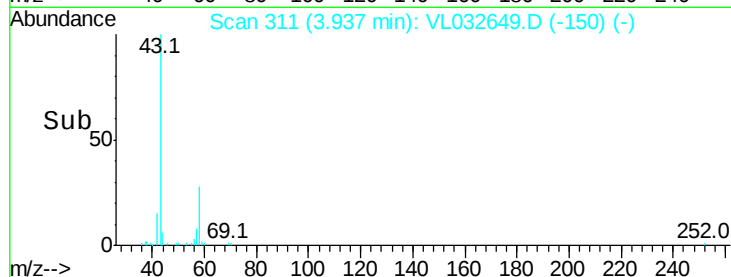
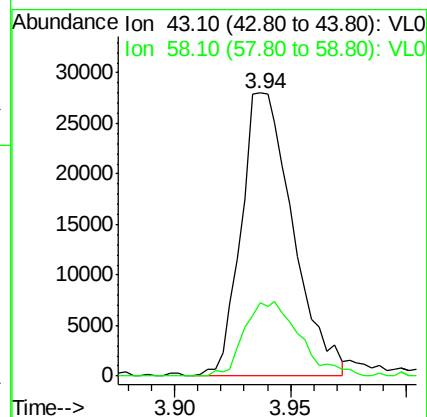
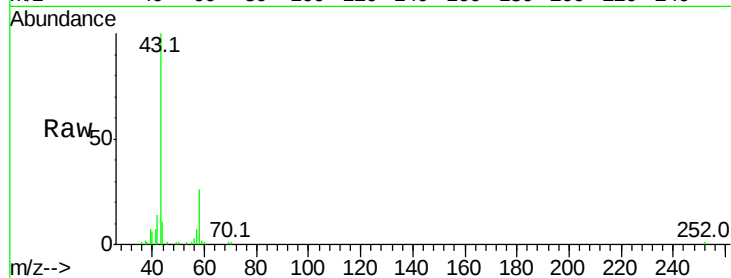
SS04-MIVIDL2

Tgt Ion: 43 Resp: 43281

Ion Ratio Lower Upper

43 100

58 28.4 22.1 33.1



#16

1,3-Butadiene

Concen: 0.037 ppbv

RT: 3.37 min Scan# 136

Delta R.T. -0.00 min

Lab File: VL032649.D

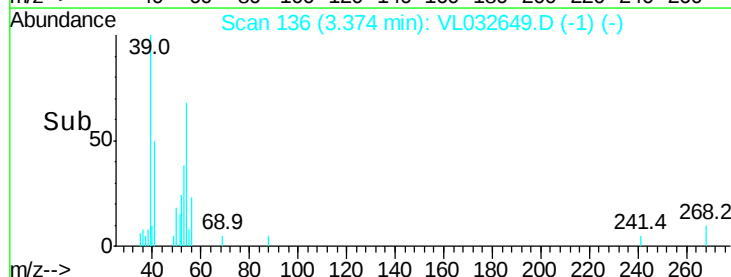
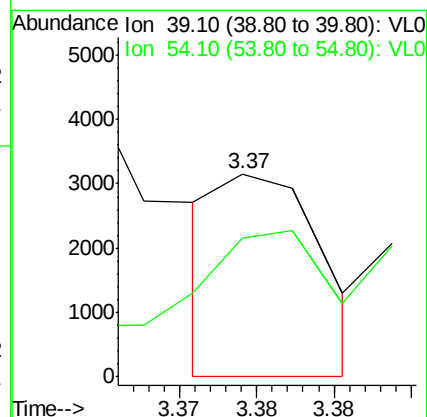
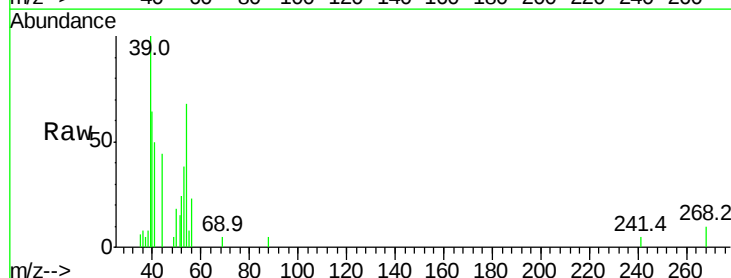
Acq: 17 Oct 2018 20:42

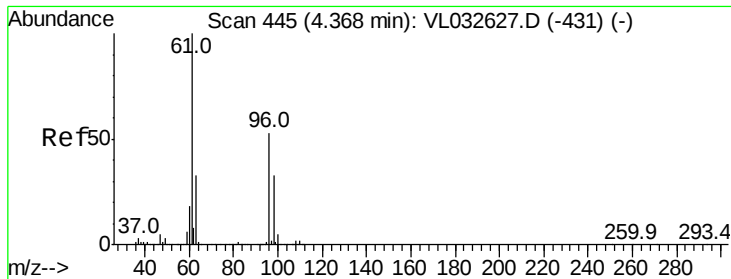
Tgt Ion: 39 Resp: 1425

Ion Ratio Lower Upper

39 100

54 244.4 90.4 135.6#





#18

1,1-Dichloroethene

Concen: 0.135 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.00 min

Lab File: VL032649.D

Acq: 17 Oct 2018 20:42

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

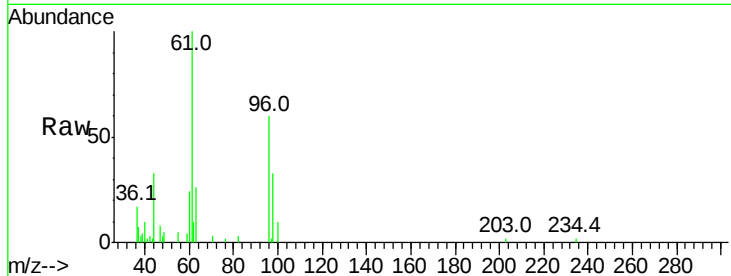
Tgt Ion: 96 Resp: 6664

Ion Ratio Lower Upper

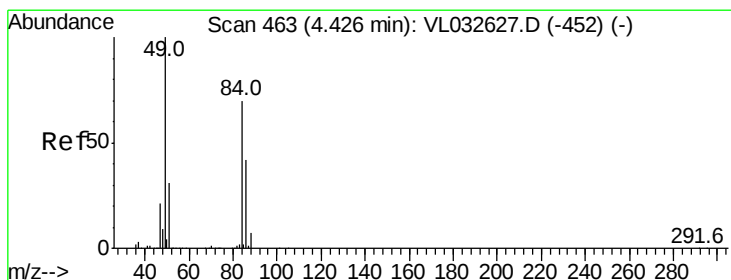
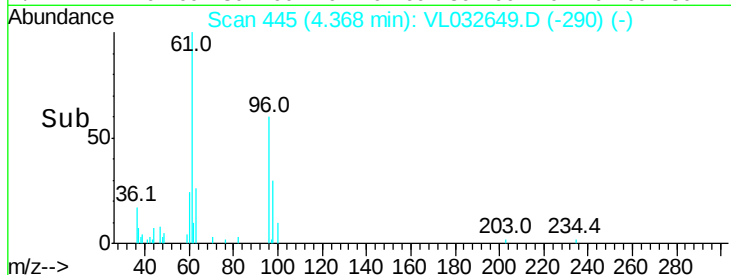
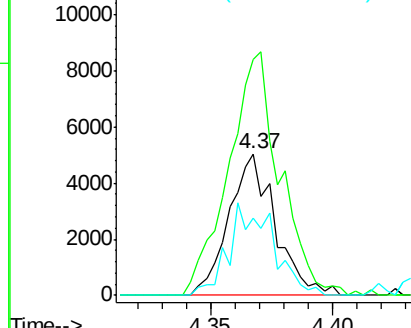
96 100

61 161.0 151.6 227.4

98 54.3 50.6 75.8



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#20

Methylene Chloride

Concen: 0.095 ppbv

RT: 4.42 min Scan# 462

Delta R.T. -0.00 min

Lab File: VL032649.D

Acq: 17 Oct 2018 20:42

Tgt Ion: 84 Resp: 4421

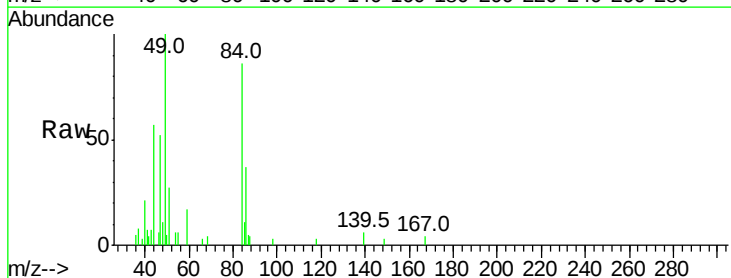
Ion Ratio Lower Upper

84 100

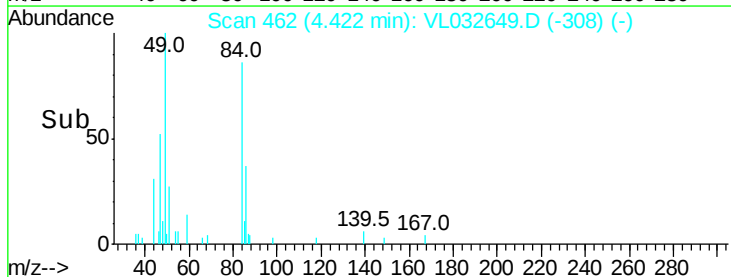
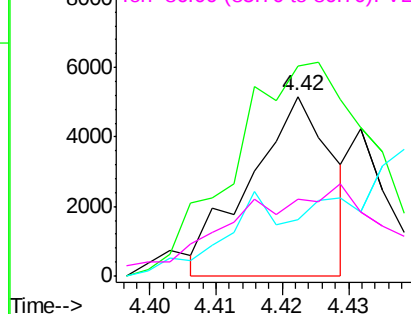
49 92.6 113.5 170.3#

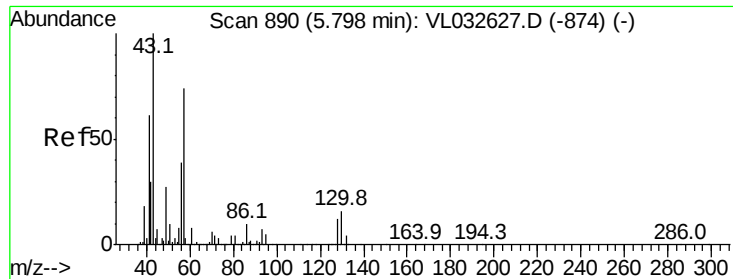
51 25.5 34.8 52.2#

86 27.9 47.9 71.9#



Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

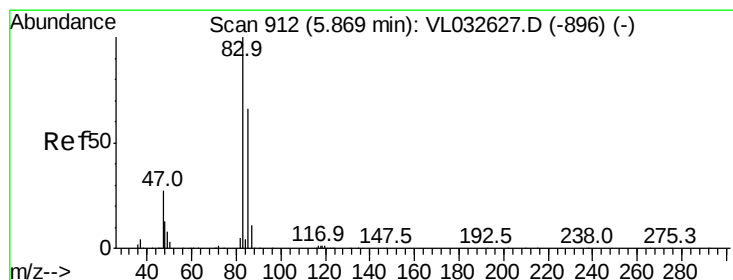
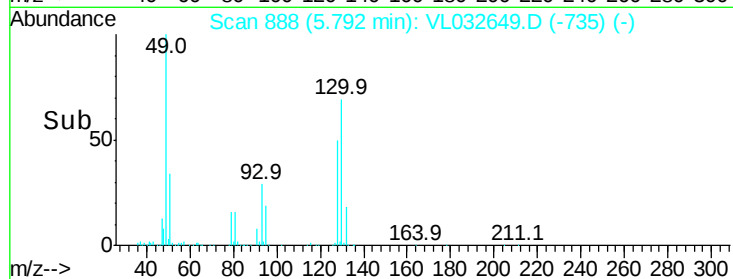
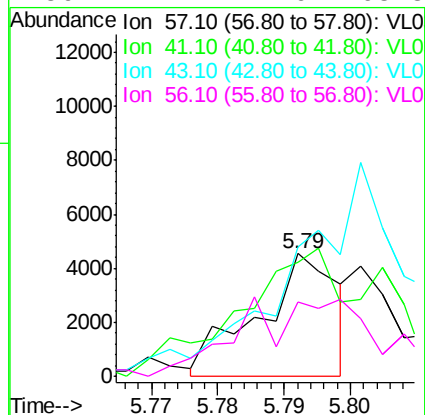
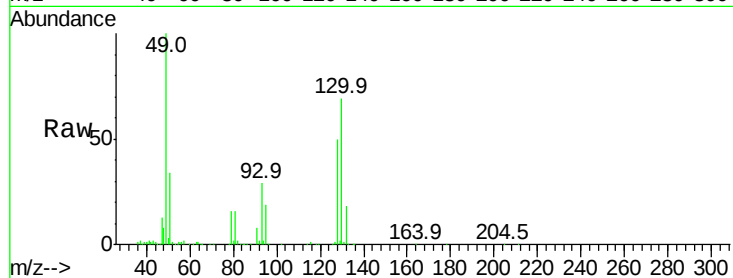




#26
Hexane
Concen: 0.034 ppbv
RT: 5.79 min Scan# 888
Delta R.T. -0.01 min
Lab File: VL032649.D
Acq: 17 Oct 2018 20:42

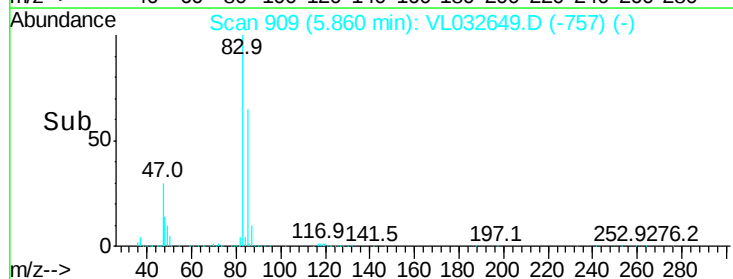
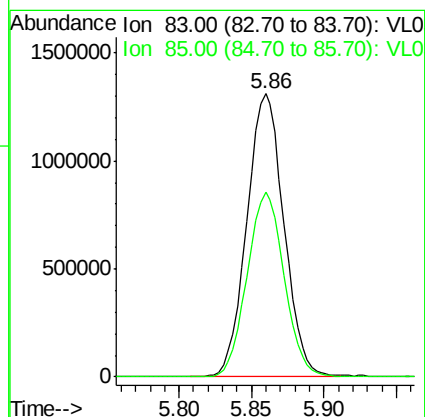
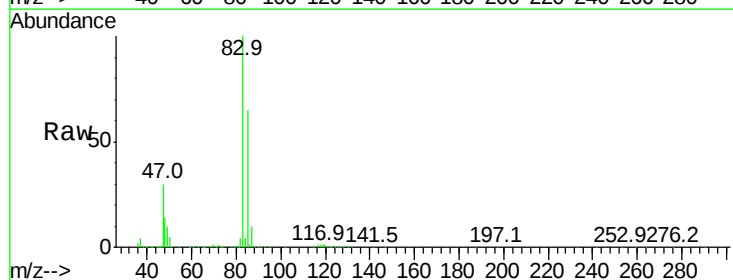
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL2

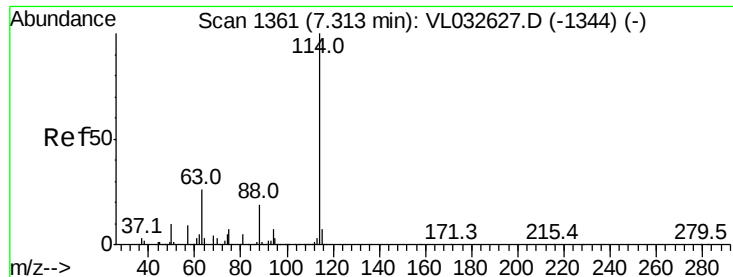
Tgt Ion: 57 Resp: 3763
Ion Ratio Lower Upper
57 100
41 199.5 67.4 101.0#
43 0.0 171.9 257.9#
56 122.4 42.6 63.8#



#29
Chloroform
Concen: 12.065 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL032649.D
Acq: 17 Oct 2018 20:42

Tgt Ion: 83 Resp: 2339848
Ion Ratio Lower Upper
83 100
85 65.1 53.0 79.6

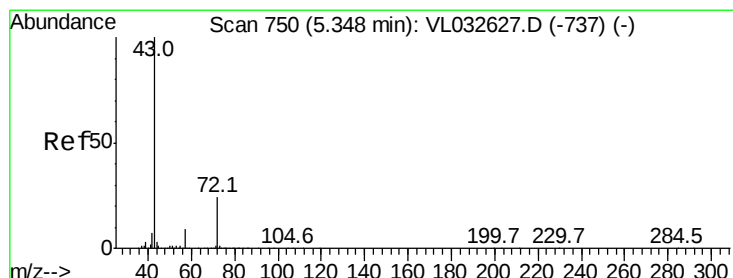
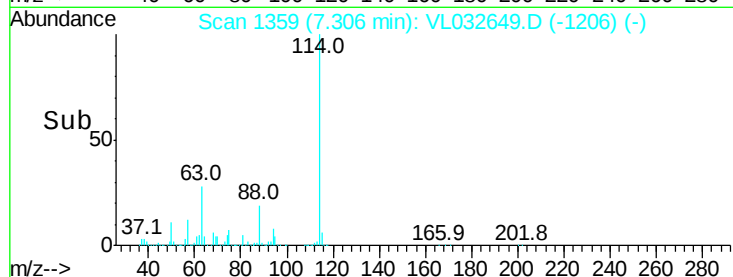
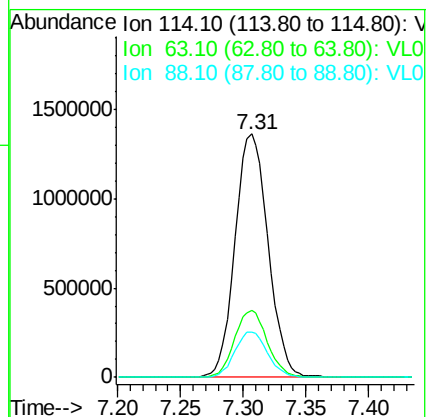
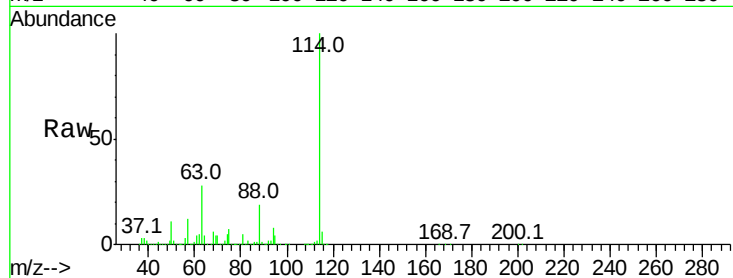




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VL032649.D
 Acq: 17 Oct 2018 20:42

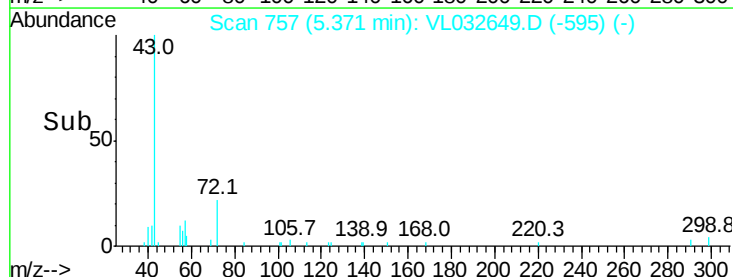
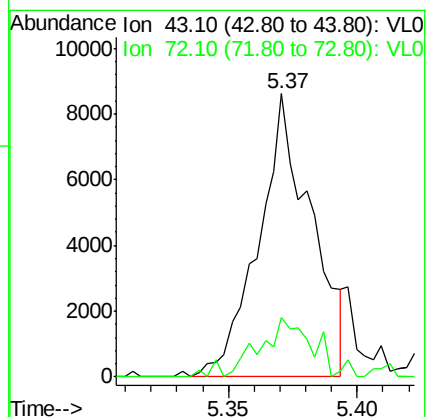
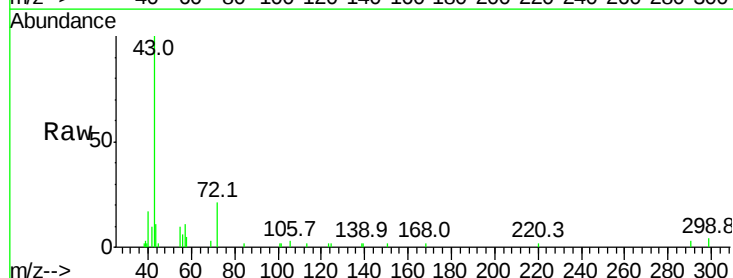
Instrument :
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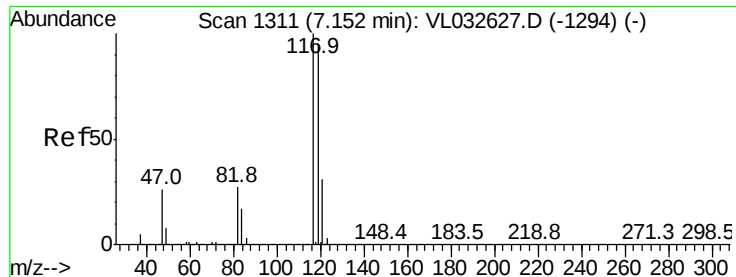
Tgt Ion:114 Resp: 2498979
 Ion Ratio Lower Upper
 114 100
 63 27.3 21.7 32.5
 88 18.4 14.9 22.3



#34
 2-Butanone
 Concen: 0.089 ppbv
 RT: 5.37 min Scan# 757
 Delta R.T. 0.02 min
 Lab File: VL032649.D
 Acq: 17 Oct 2018 20:42

Tgt Ion: 43 Resp: 12316
 Ion Ratio Lower Upper
 43 100
 72 21.5 18.6 27.8





#35

Carbon Tetrachloride

Concen: 3.156 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. -0.01 min

Lab File: VL032649.D

Acq: 17 Oct 2018 20:42

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

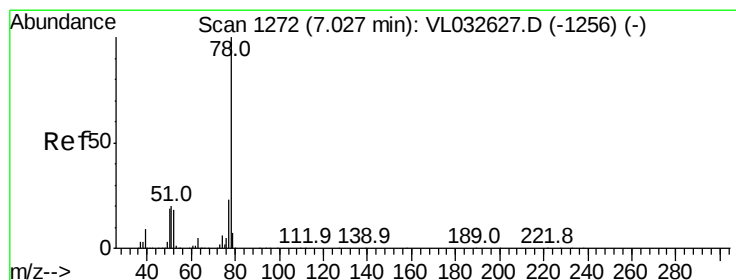
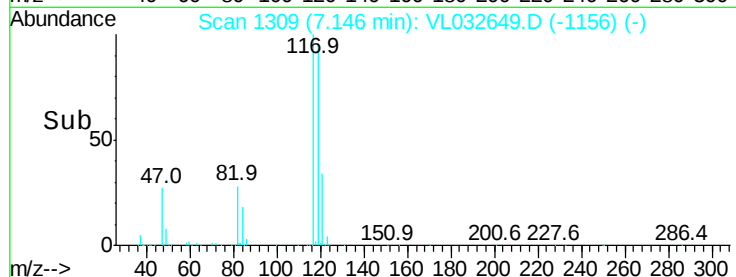
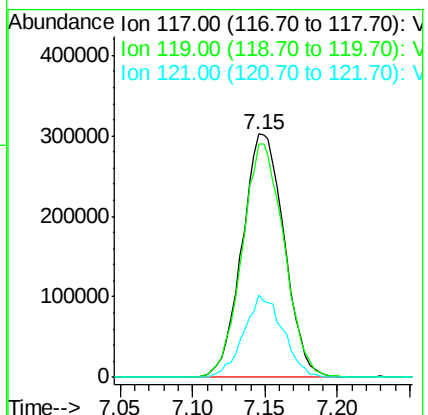
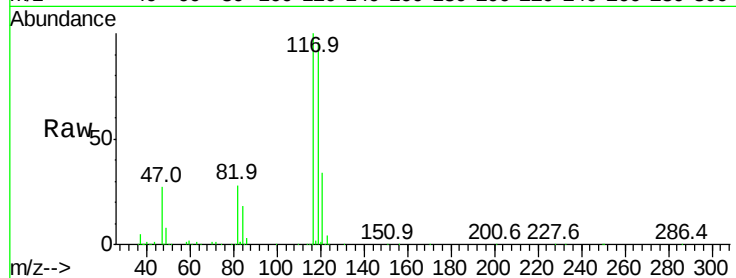
Tgt Ion: 117 Resp: 611225

Ion Ratio Lower Upper

117 100

119 95.6 75.7 113.5

121 33.6 24.7 37.1



#36

Benzene

Concen: 0.039 ppbv

RT: 7.02 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VL032649.D

Acq: 17 Oct 2018 20:42

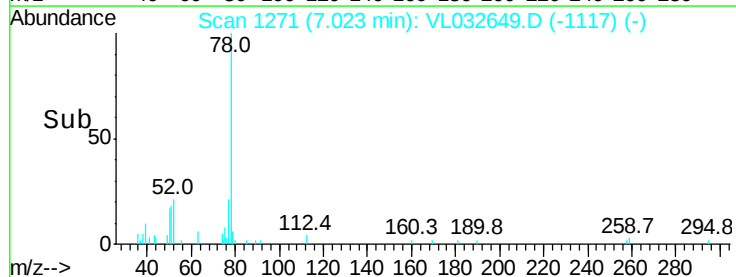
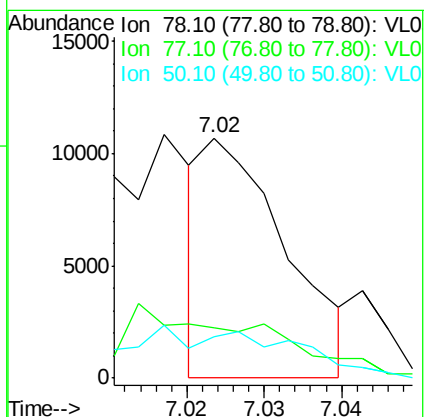
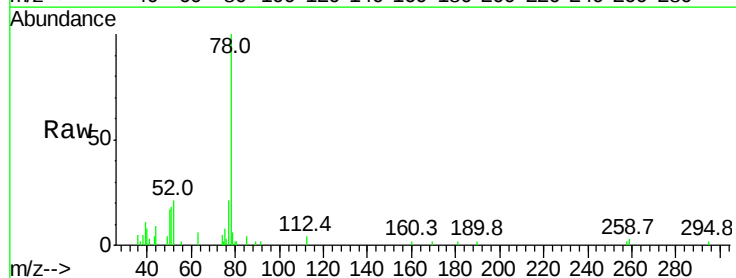
Tgt Ion: 78 Resp: 7922

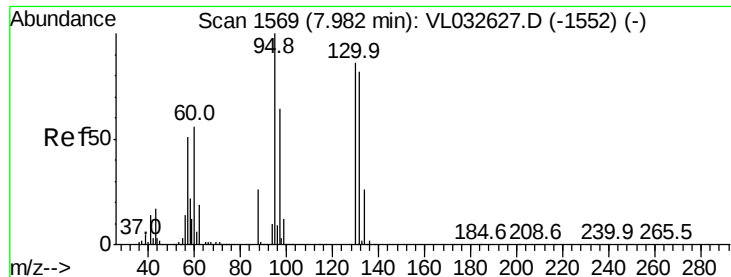
Ion Ratio Lower Upper

78 100

77 18.6 18.1 27.1

50 16.3 15.1 22.7

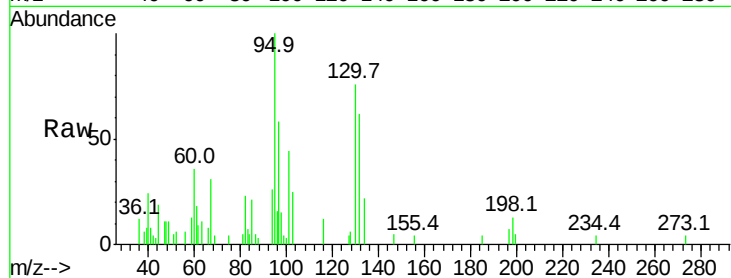




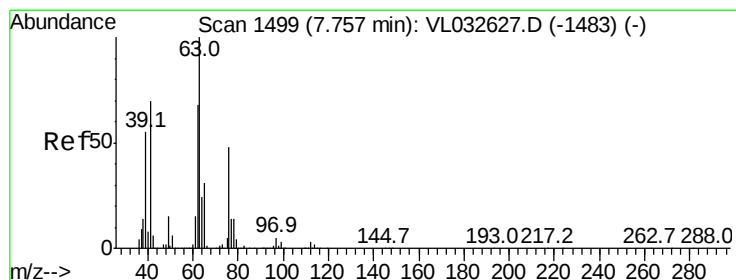
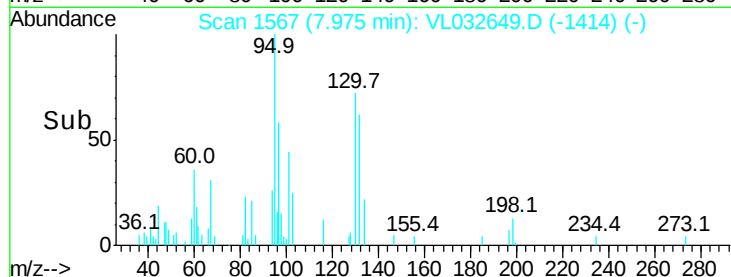
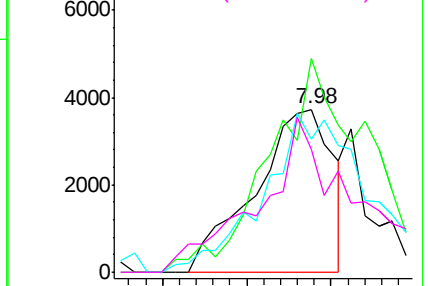
#38
 Trichloroethene
 Concen: 0.063 ppbv
 RT: 7.98 min Scan# 1567
 Delta R.T. -0.01 min
 Lab File: VL032649.D
 Acq: 17 Oct 2018 20:42

Instrument :
 MSVOA_L
 ClientSampleId :
 SS04-MIVIDL2

Tgt Ion: 130 Resp: 4782
 Ion Ratio Lower Upper
 130 100
 95 123.5 93.4 140.0
 132 75.8 76.5 114.7#
 97 78.6 60.2 90.2

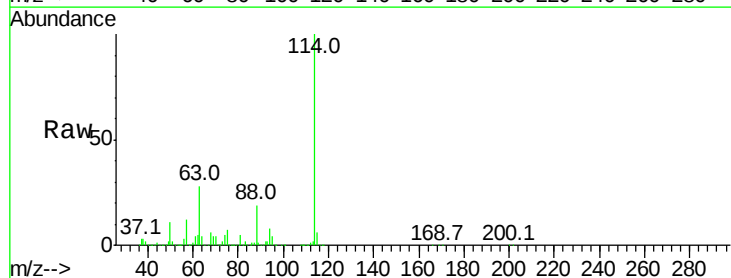


Abundance Ion 130.00 (129.70 to 130.70): V

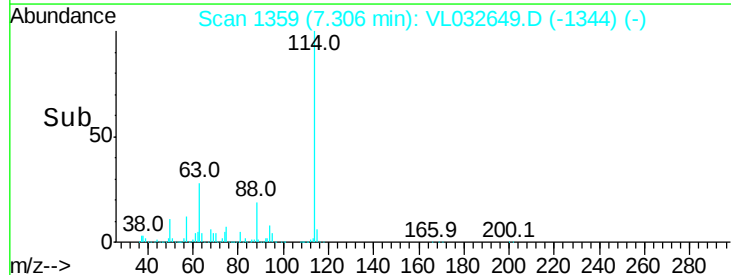
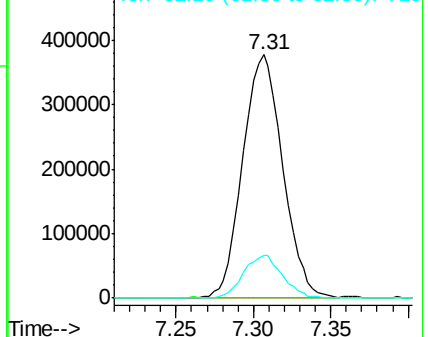


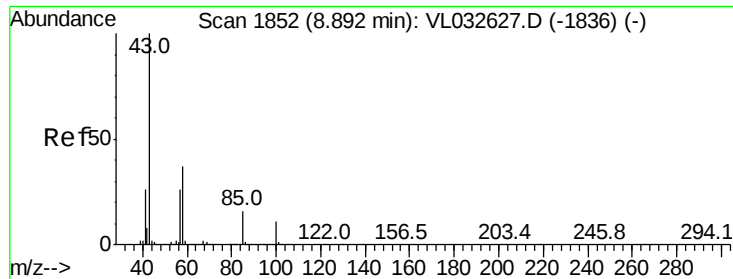
#39
 1,2-Dichloropropane
 Concen: 8.248 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.45 min
 Lab File: VL032649.D
 Acq: 17 Oct 2018 20:42

Tgt Ion: 63 Resp: 679627
 Ion Ratio Lower Upper
 63 100
 41 0.2 56.2 84.4#
 62 17.6 54.4 81.6#



Abundance Ion 63.10 (62.80 to 63.80): VL0

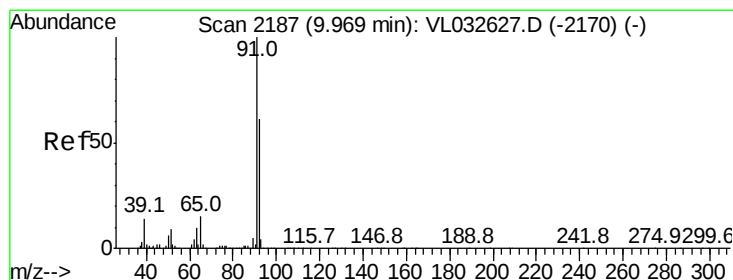
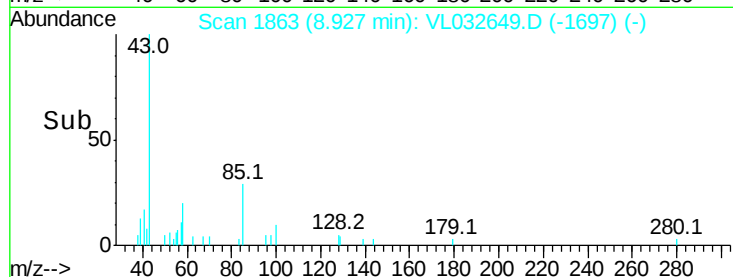
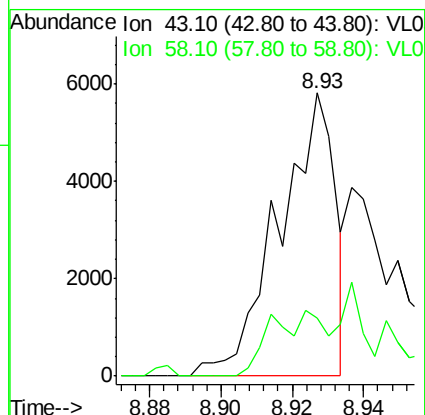
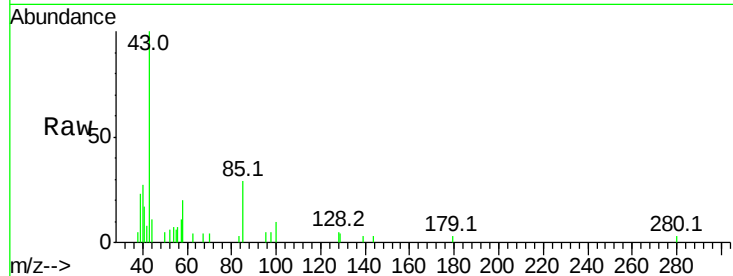




#50
4-Methyl-2-Pentanone
Concen: 0.031 ppbv
RT: 8.93 min Scan# 1863
Delta R.T. 0.04 min
Lab File: VL032649.D
Acq: 17 Oct 2018 20:42

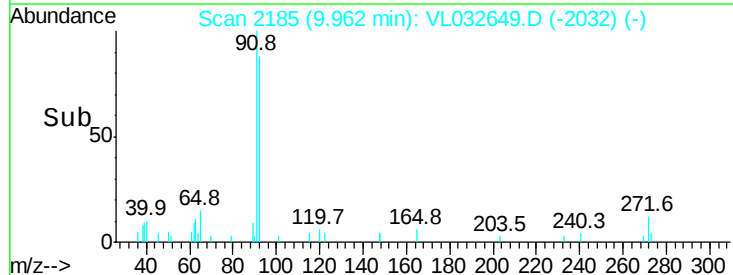
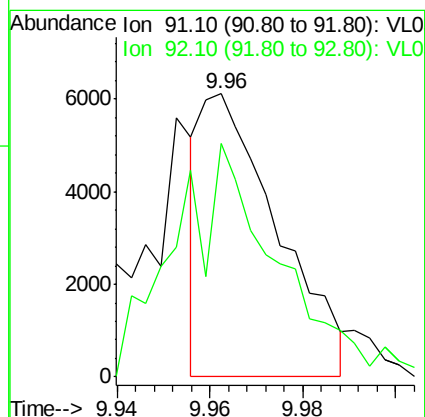
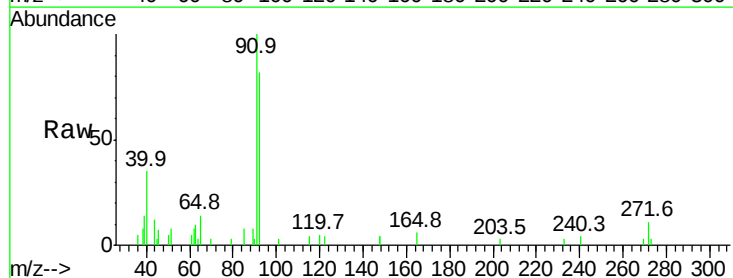
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL2

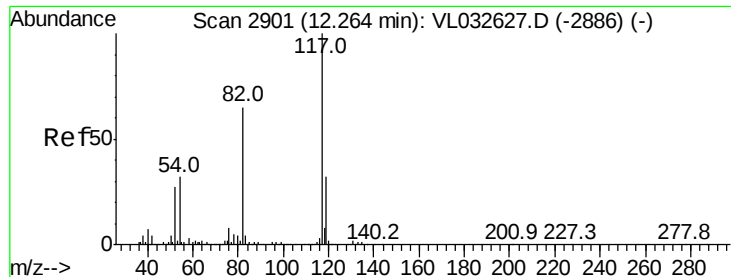
Tgt Ion: 43 Resp: 6330
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#



#53
Toluene
Concen: 0.030 ppbv
RT: 9.96 min Scan# 2185
Delta R.T. -0.01 min
Lab File: VL032649.D
Acq: 17 Oct 2018 20:42

Tgt Ion: 91 Resp: 6988
Ion Ratio Lower Upper
91 100
92 119.8 48.4 72.6#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.26 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL032649.D

Acq: 17 Oct 2018 20:42

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

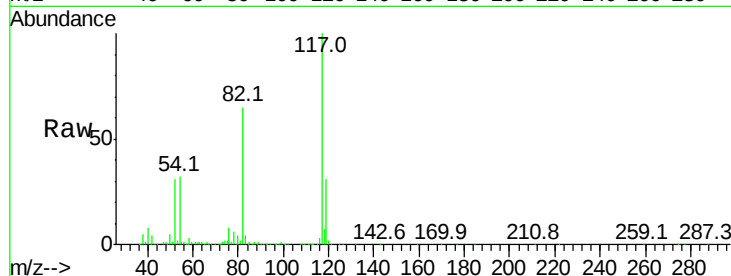
Tgt Ion:117 Resp: 2606223

Ion Ratio Lower Upper

117 100

82 68.1 52.7 79.1

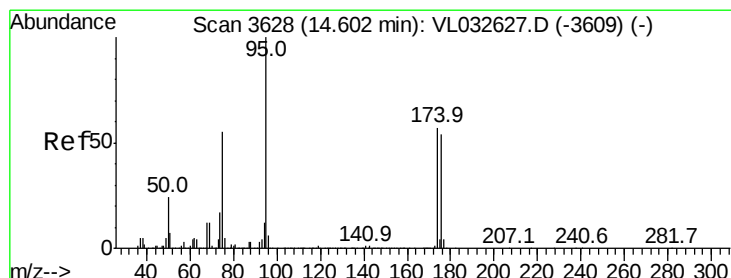
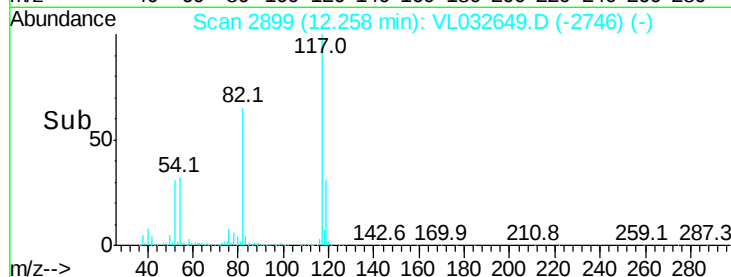
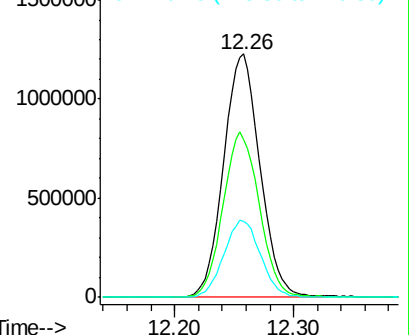
119 32.3 26.7 40.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.639 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. -0.01 min

Lab File: VL032649.D

Acq: 17 Oct 2018 20:42

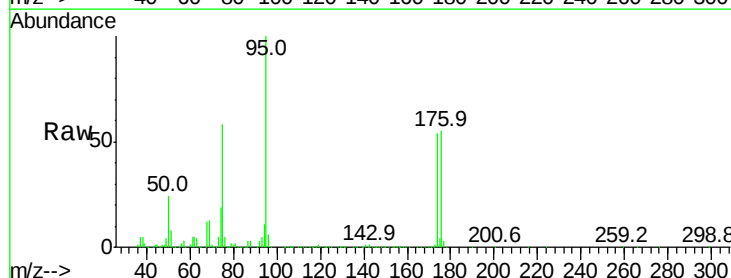
Tgt Ion: 95 Resp: 1891596

Ion Ratio Lower Upper

95 100

174 57.6 46.0 69.0

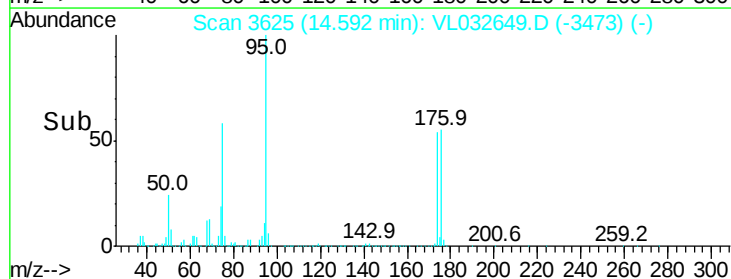
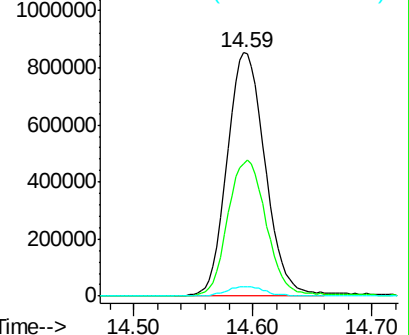
175 4.1 3.4 5.0

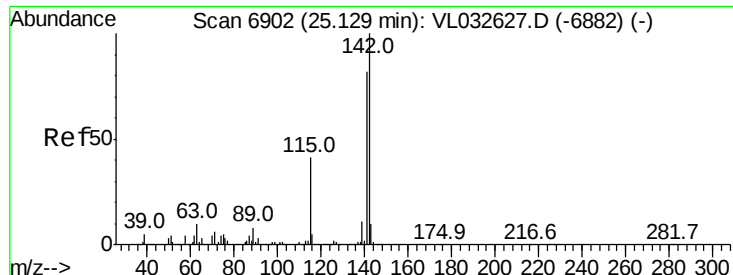


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#80

Naphthalene, 2-methyl-

Concen: 0.745 ppbv

RT: 25.16 min Scan# 6912

Delta R.T. 0.03 min

Lab File: VL032649.D

Acq: 17 Oct 2018 20:42

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

Tgt Ion:142 Resp: 364

Ion Ratio Lower Upper

142 100

141 64.6 67.5 101.3#

115 0.0 33.5 50.3#

