

Data File : VL032642.D
Acq On : 17 Oct 2018 15:43
Operator : SY/AP
Sample : J5500-02DL2 1000X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL2

Quant Time: Oct 17 16:27:15 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	1142062	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2492186	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	2396943	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	1833960	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

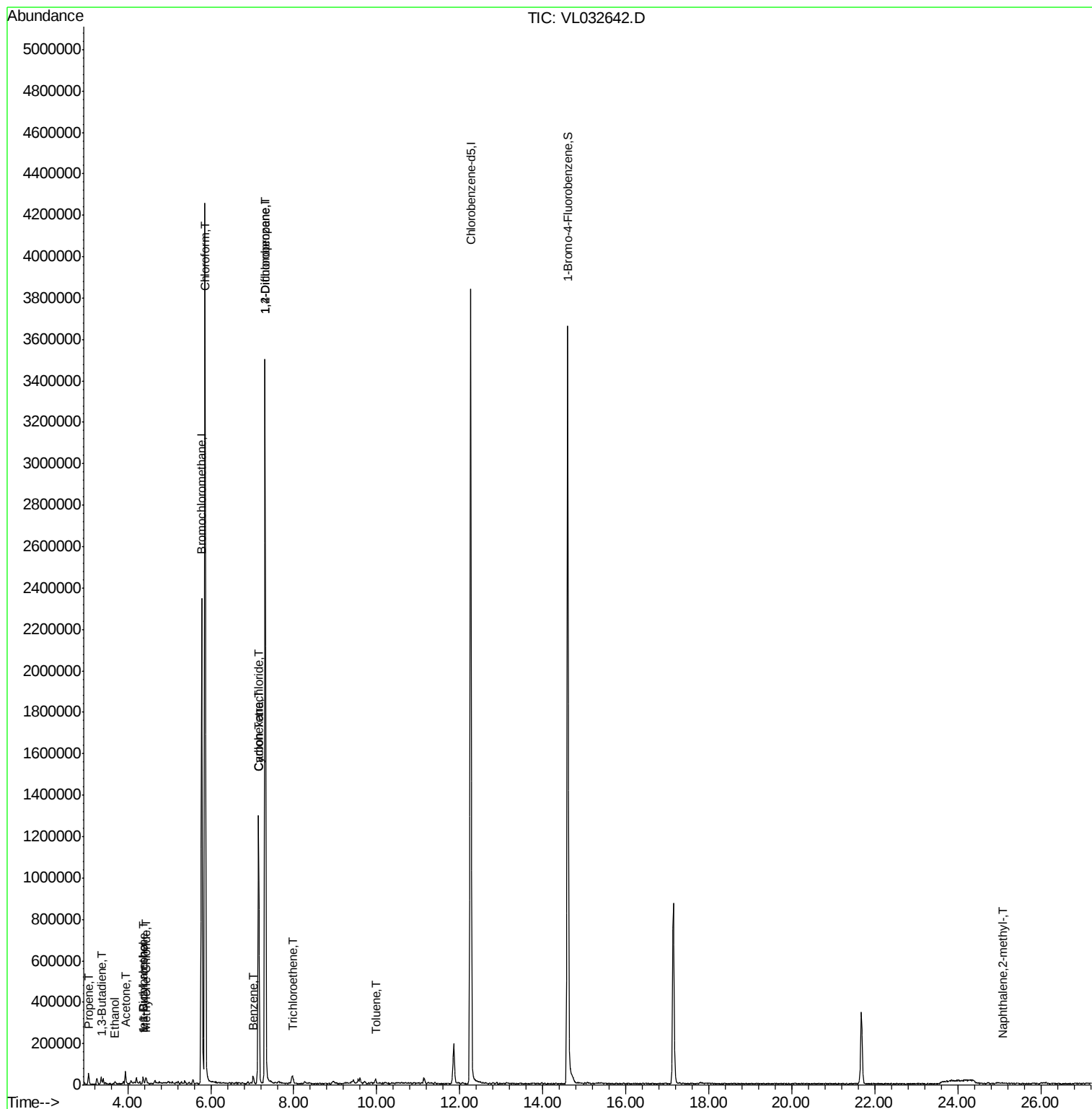
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	45	Below Cal	#	42
9) Propene	3.06	41	17281	0.493	ppbv	85
13) Ethanol	3.67	45	499	0.046	ppbv #	36
15) Acetone	3.94	43	45706	0.450	ppbv	92
16) 1,3-Butadiene	3.38	39	1518	0.040	ppbv #	40
17) tert-Butyl alcohol	4.37	59	350	0.038	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	6454	0.133	ppbv #	93
20) Methylene Chloride	4.42	84	3228	0.071	ppbv #	87
29) Chloroform	5.86	83	3005010	15.828	ppbv	100
30) Cyclohexane	7.15	84	139690	1.635	ppbv #	1
35) Carbon Tetrachloride	7.15	117	775135	4.013	ppbv	99
36) Benzene	7.02	78	14951	0.074	ppbv #	88
38) Trichloroethene	7.97	130	2915	0.038	ppbv	92
39) 1,2-Dichloropropane	7.31	63	661206	8.046	ppbv #	26
53) Toluene	9.96	91	7328	0.032	ppbv #	20
80) Naphthalene,2-methyl-	25.09	142	246	0.744	ppbv #	51

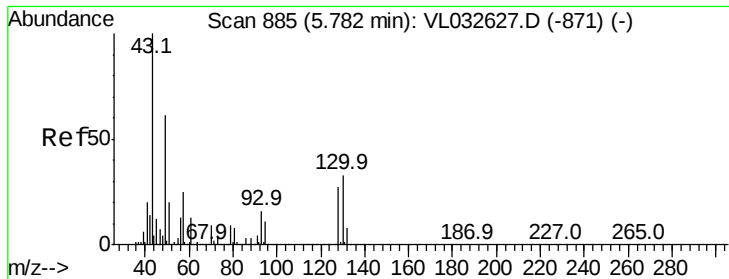
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 17 08:55:11 2018
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

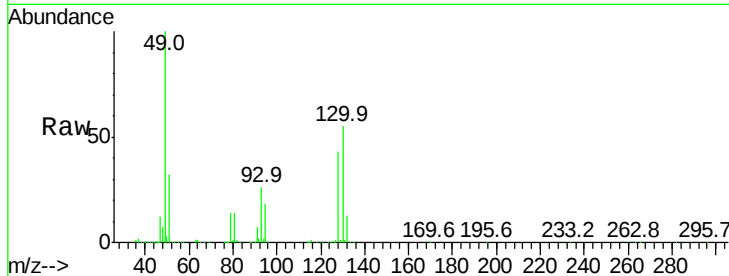
Tgt Ion: 49 Resp: 1142062

Ion Ratio Lower Upper

49 100

128 44.3 22.3 66.8

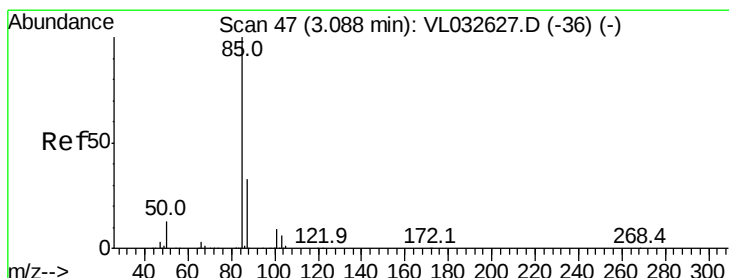
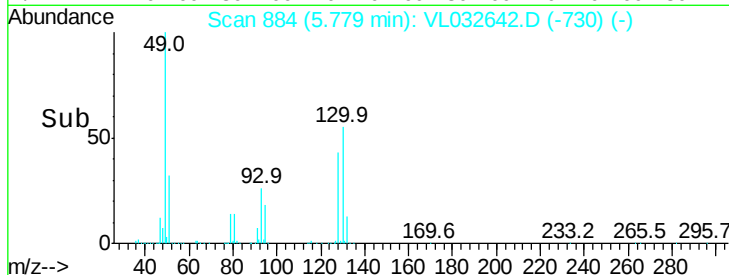
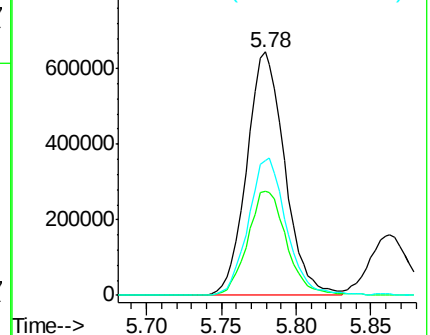
130 57.0 28.4 85.3



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: 3.08 min Scan# 45

Delta R.T. -0.01 min

Lab File: VL032642.D

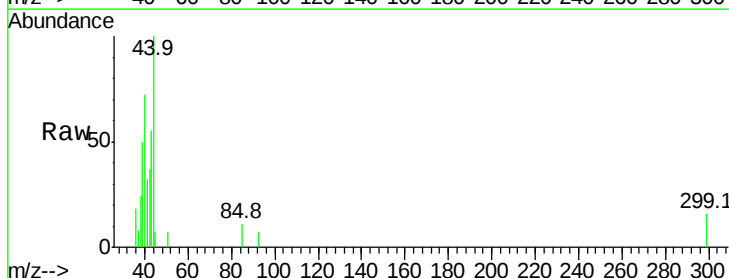
Acq: 17 Oct 2018 15:43

Tgt Ion: 85 Resp: 45

Ion Ratio Lower Upper

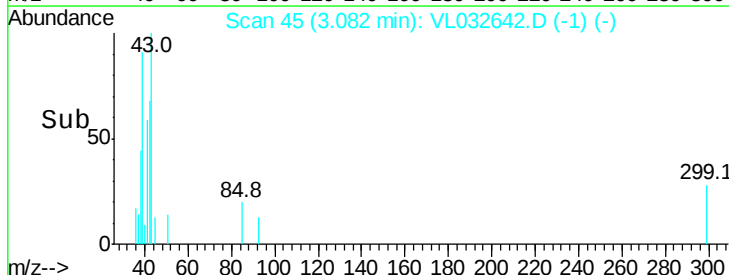
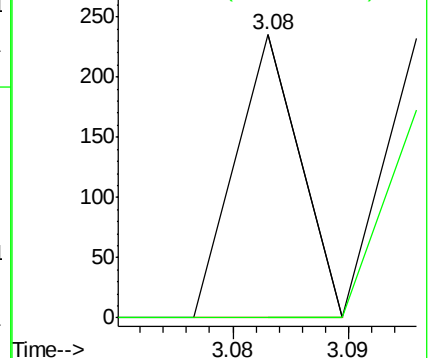
85 100

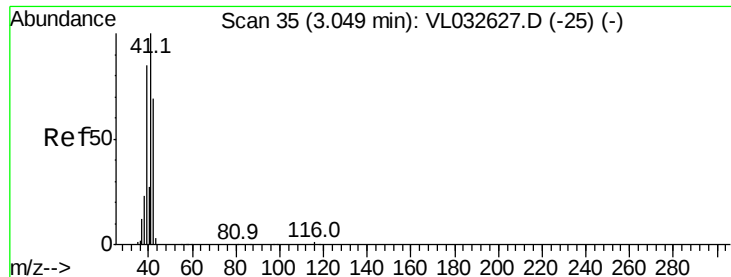
87 0.0 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.493 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

Instrument :

MSVOA_L

ClientSampleId :

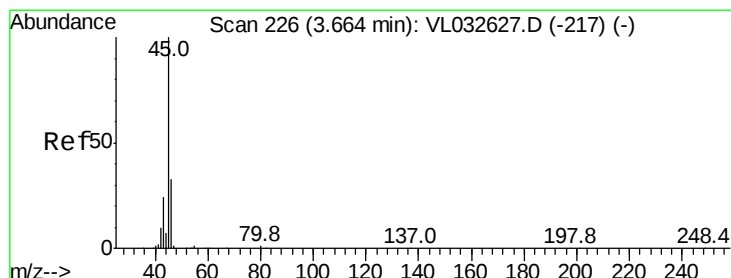
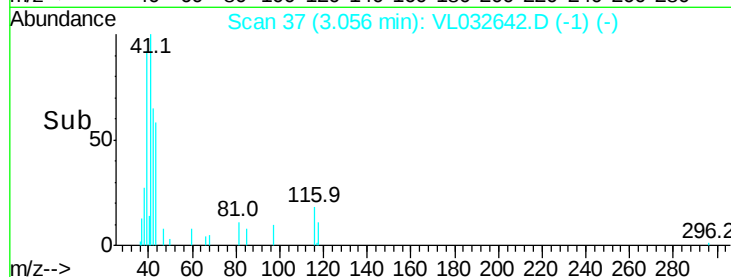
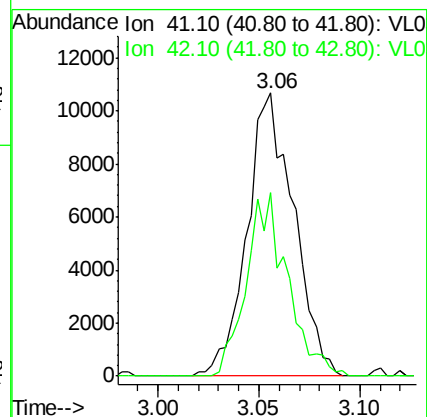
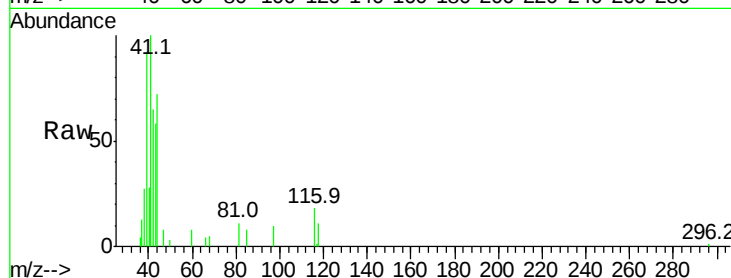
SS04-MIVIDL2

Tgt Ion: 41 Resp: 17281

Ion Ratio Lower Upper

41 100

42 56.9 55.4 83.0



#13

Ethanol

Concen: 0.046 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.01 min

Lab File: VL032642.D

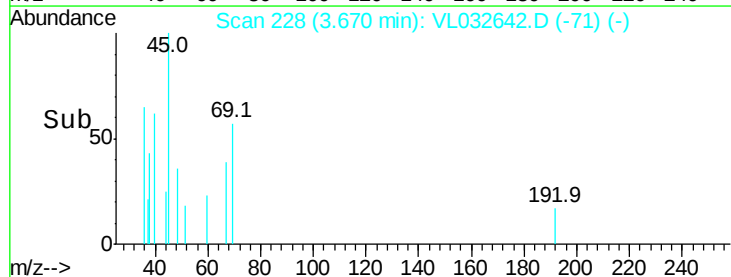
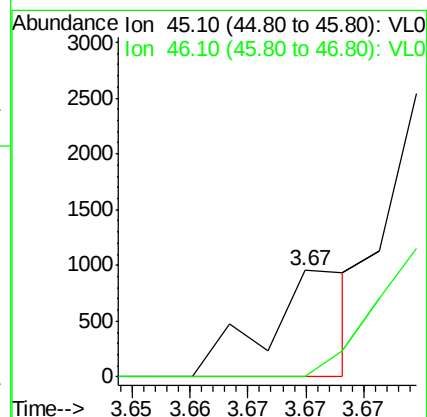
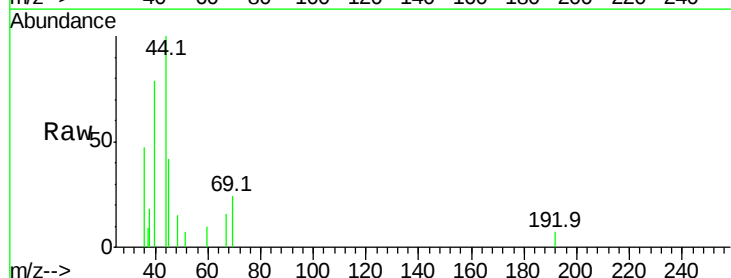
Acq: 17 Oct 2018 15:43

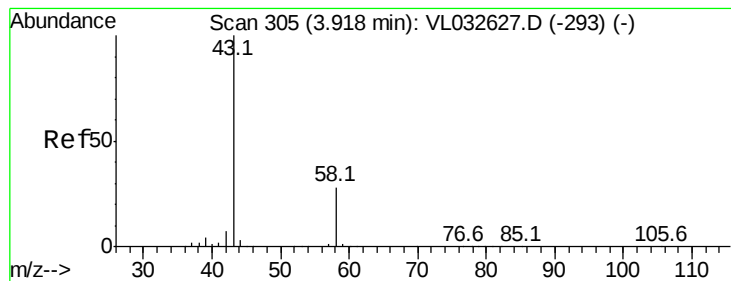
Tgt Ion: 45 Resp: 499

Ion Ratio Lower Upper

45 100

46 0.0 15.4 61.8#





#15

Acetone

Concen: 0.450 ppbv

RT: 3.94 min Scan# 313

Delta R.T. 0.03 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

Instrument :

MSVOA_L

ClientSampleId :

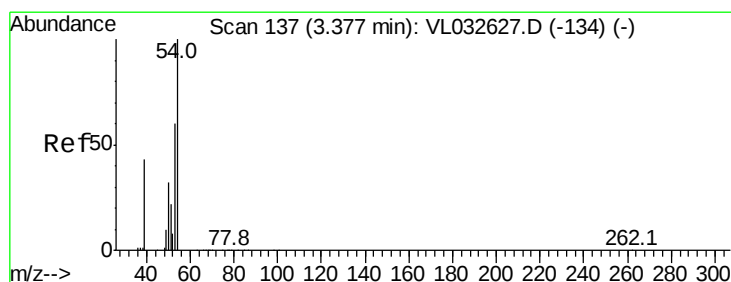
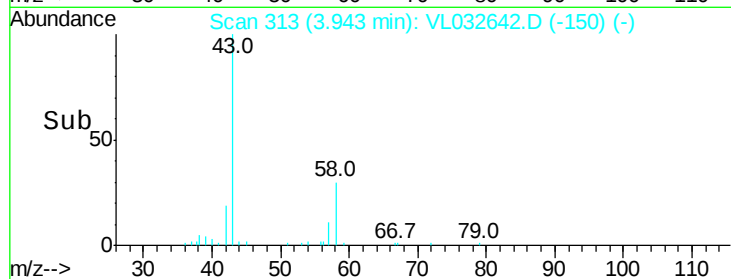
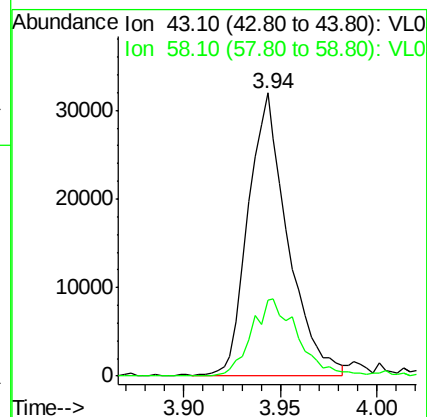
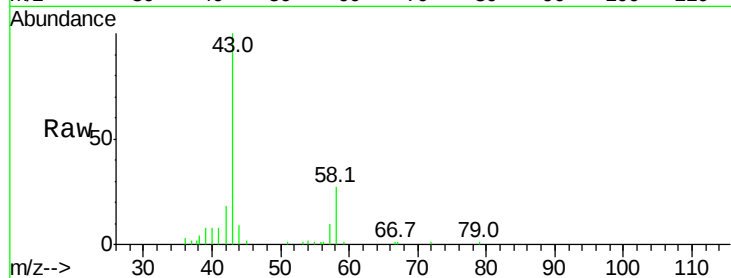
SS04-MIVIDL2

Tgt Ion: 43 Resp: 45706

Ion Ratio Lower Upper

43 100

58 31.5 22.1 33.1



#16

1,3-Butadiene

Concen: 0.040 ppbv

RT: 3.38 min Scan# 138

Delta R.T. 0.00 min

Lab File: VL032642.D

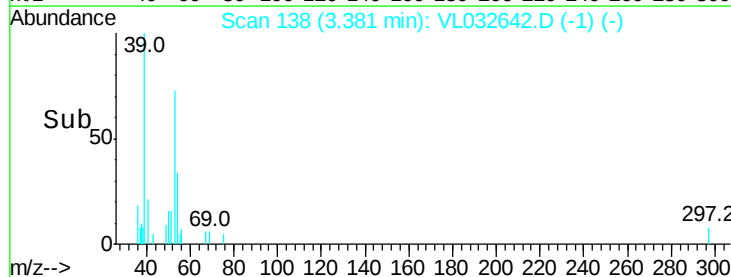
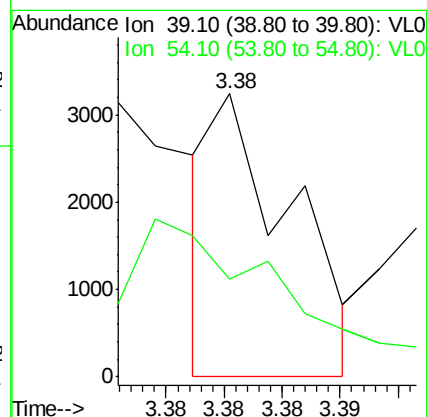
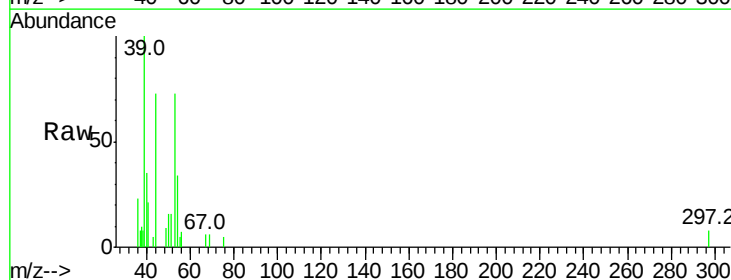
Acq: 17 Oct 2018 15:43

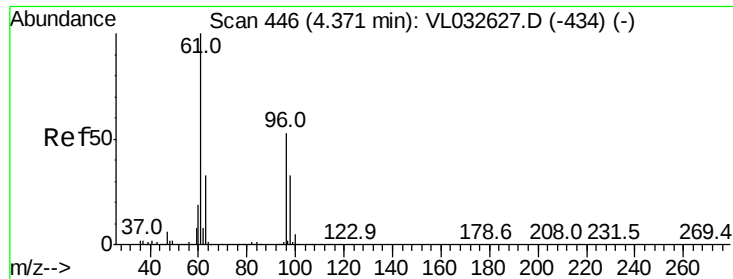
Tgt Ion: 39 Resp: 1518

Ion Ratio Lower Upper

39 100

54 177.3 90.4 135.6#





#17

tert-Butyl alcohol

Concen: 0.038 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.00 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

Instrument :

MSVOA_L

ClientSampleId :

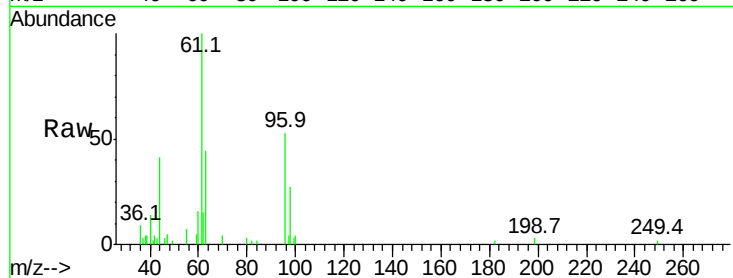
SS04-MIVIDL2

Tgt Ion: 59 Resp: 350

Ion Ratio Lower Upper

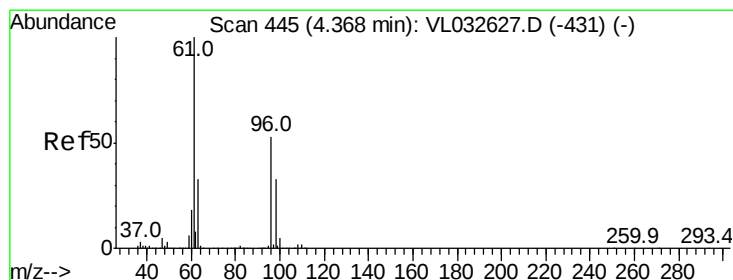
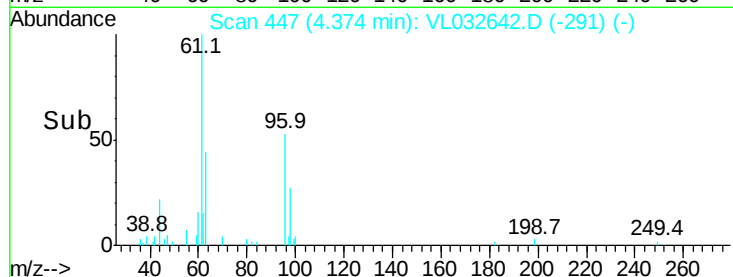
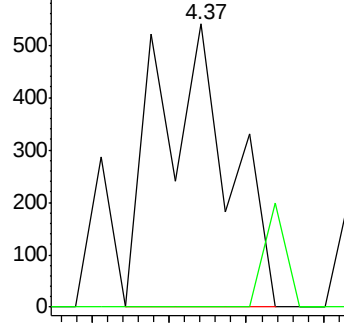
59 100

57 0.0 0.0 0.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.133 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.01 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

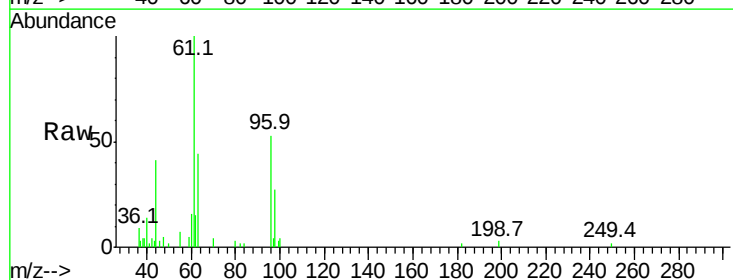
Tgt Ion: 96 Resp: 6454

Ion Ratio Lower Upper

96 100

61 191.0 151.6 227.4

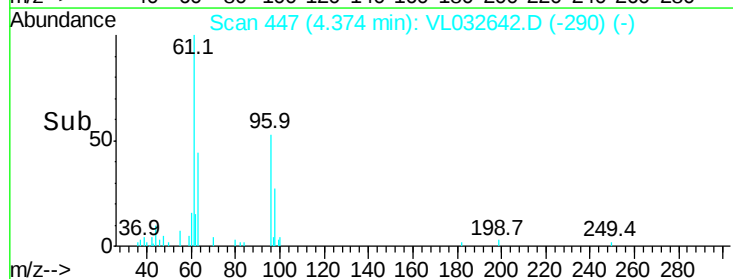
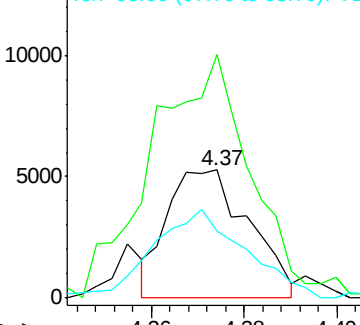
98 44.8 50.6 75.8#

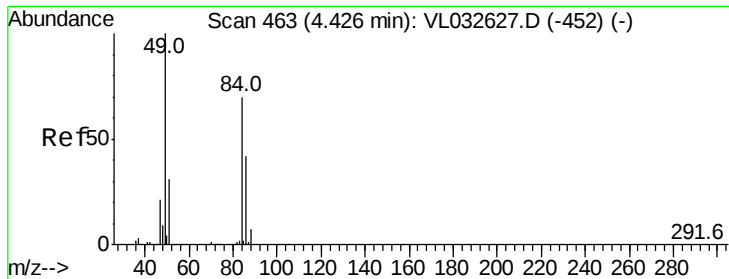


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

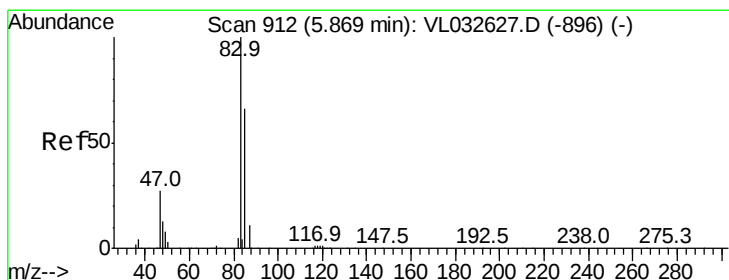
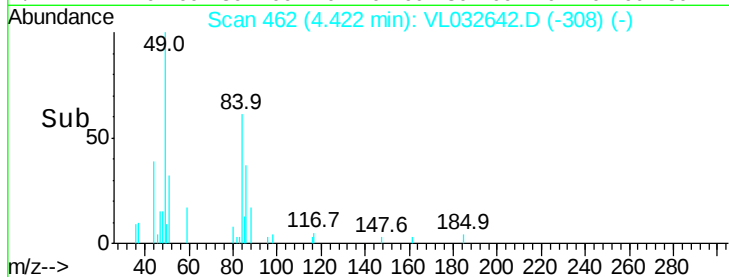
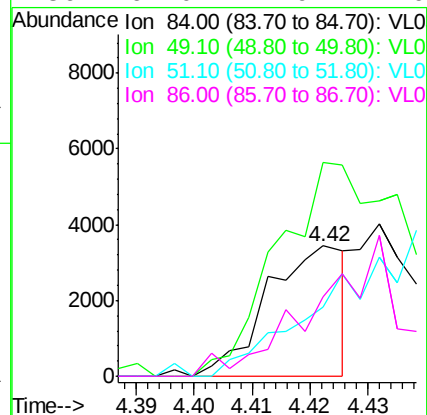
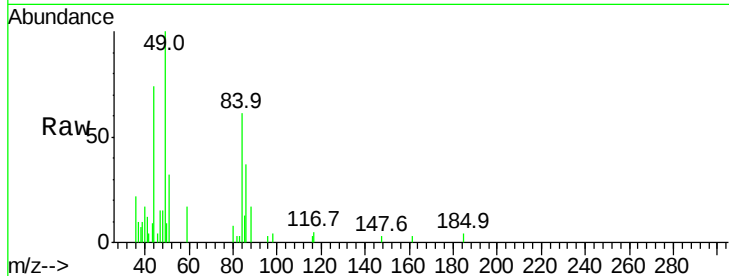




#20
Methylene Chloride
Concen: 0.071 ppbv
RT: 4.42 min Scan# 462
Delta R.T. -0.00 min
Lab File: VL032642.D
Acq: 17 Oct 2018 15:43

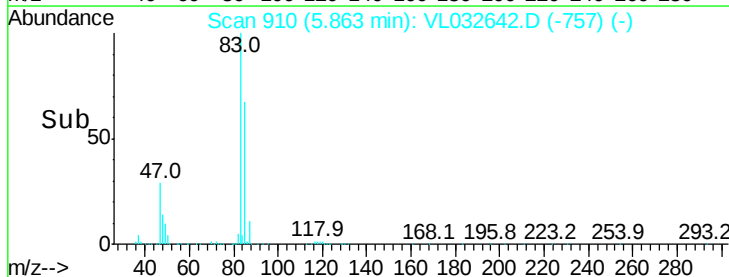
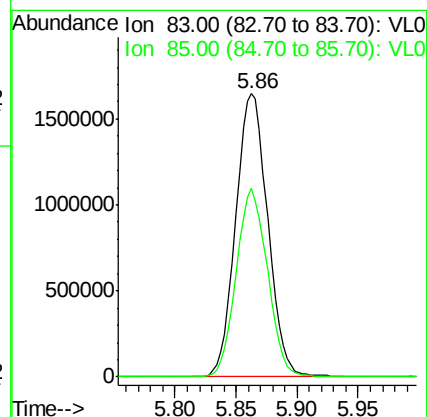
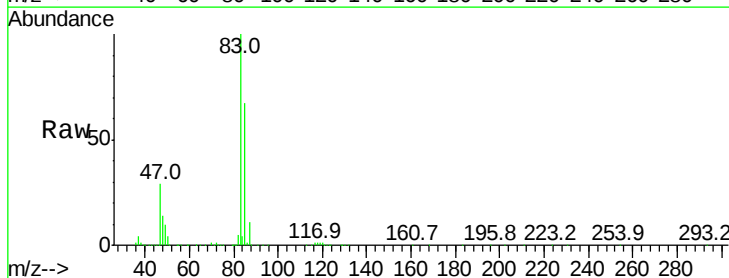
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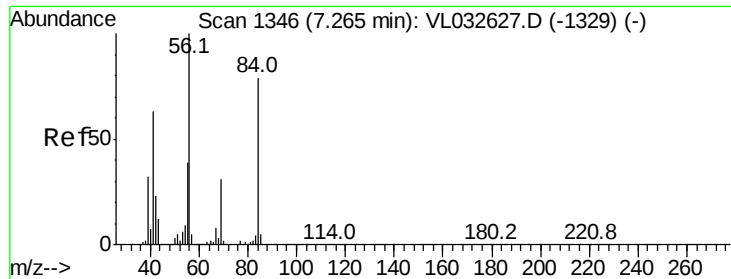
Tgt Ion:	84	Resp:	3228
Ion	Ratio	Lower	Upper
84	100		
49	164.3	113.5	170.3
51	52.8	34.8	52.2#
86	61.0	47.9	71.9



#29
Chloroform
Concen: 15.828 ppbv
RT: 5.86 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL032642.D
Acq: 17 Oct 2018 15:43

Tgt Ion:	83	Resp:	3005010
Ion	Ratio	Lower	Upper
83	100		
85	66.7	53.0	79.6

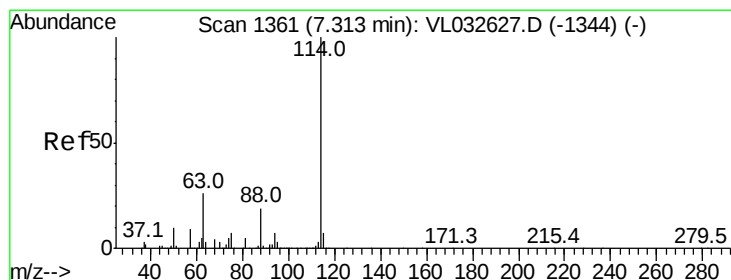
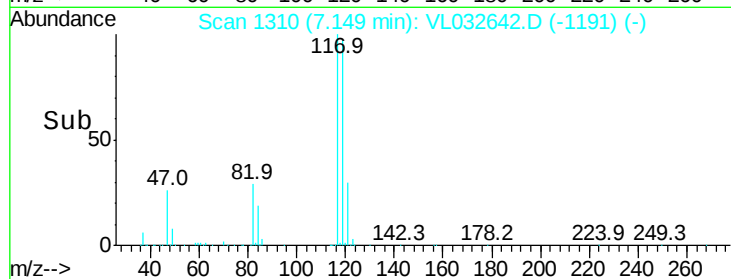
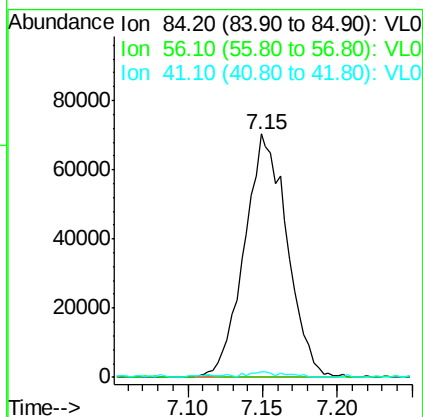
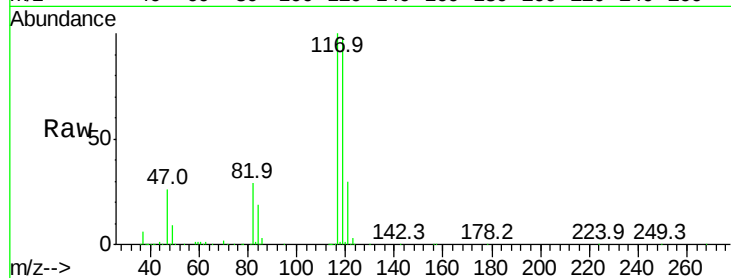




#30
Cyclohexane
Concen: 1.635 ppbv
RT: 7.15 min Scan# 1310
Delta R.T. -0.12 min
Lab File: VL032642.D
Acq: 17 Oct 2018 15:43

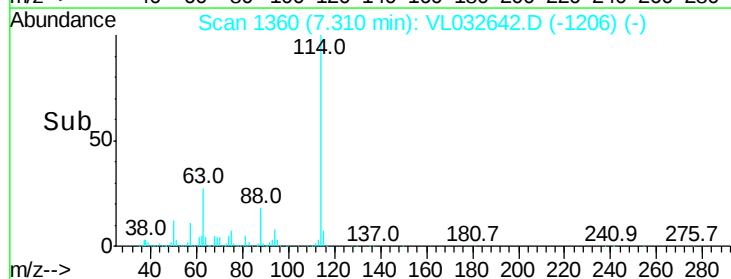
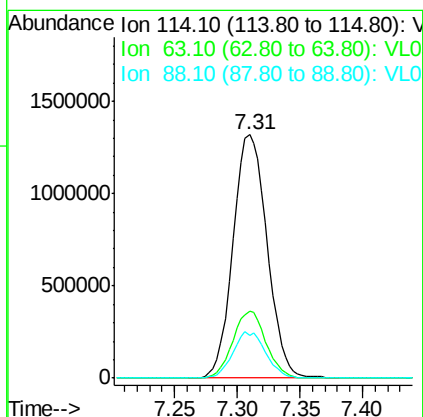
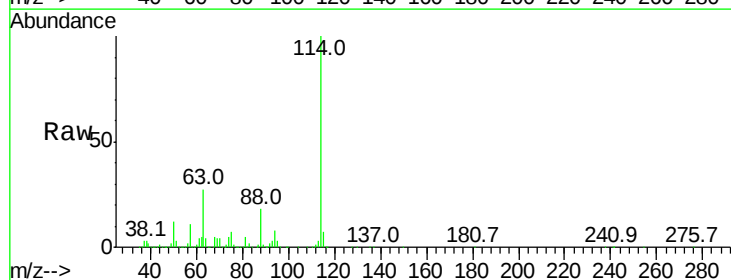
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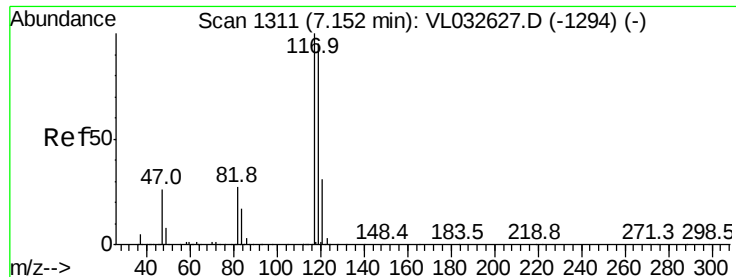
Tgt Ion: 84 Resp: 139690
Ion Ratio Lower Upper
84 100
56 0.0 108.3 162.5#
41 2.7 64.8 97.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.31 min Scan# 1360
Delta R.T. -0.00 min
Lab File: VL032642.D
Acq: 17 Oct 2018 15:43

Tgt Ion: 114 Resp: 2492186
Ion Ratio Lower Upper
114 100
63 26.8 21.7 32.5
88 18.5 14.9 22.3

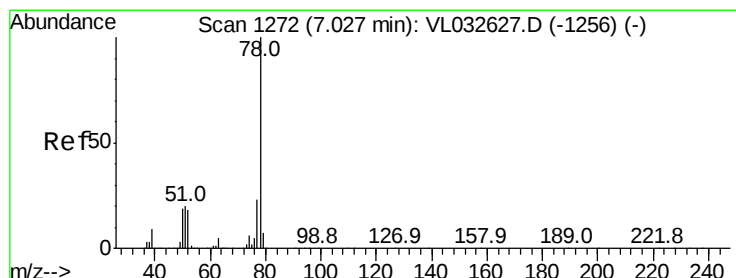
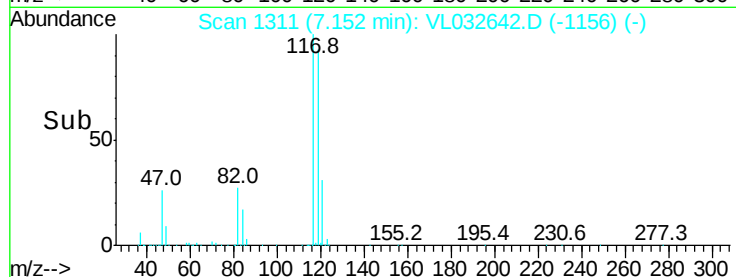
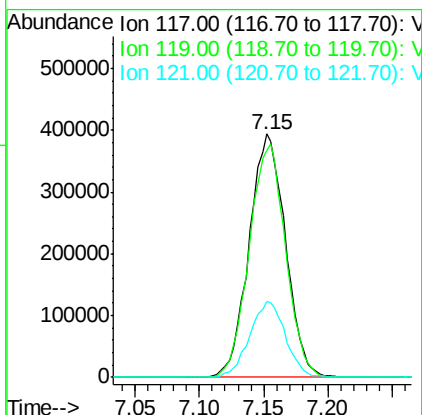
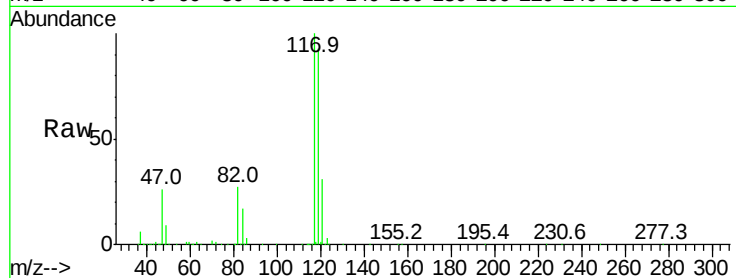




#35
Carbon Tetrachloride
Concen: 4.013 ppbv
RT: 7.15 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VL032642.D
Acq: 17 Oct 2018 15:43

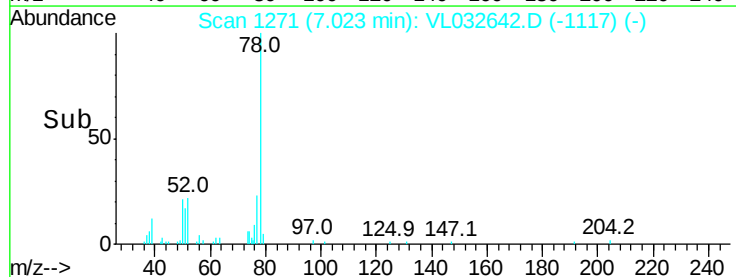
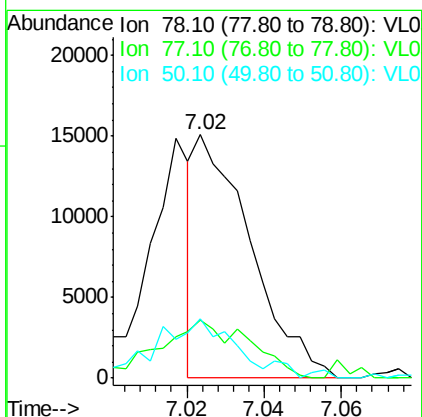
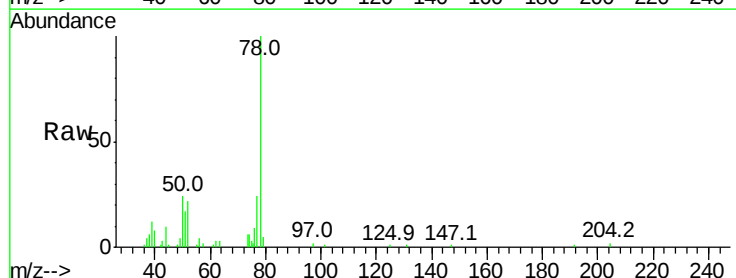
Instrument :
MSVOA_L
ClientSampleId :
SS04-MIVIDL2

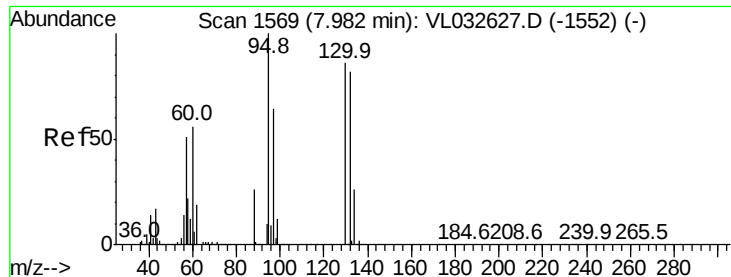
Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.2	75.7	113.5
121	31.5	24.7	37.1



#36
Benzene
Concen: 0.074 ppbv
RT: 7.02 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VL032642.D
Acq: 17 Oct 2018 15:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.7	18.1	27.1#
50	24.2	15.1	22.7#





#38

Trichloroethene

Concen: 0.038 ppbv

RT: 7.97 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

Tgt Ion:130 Resp: 2915

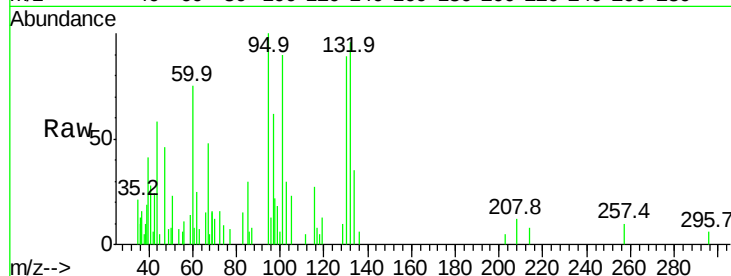
Ion Ratio Lower Upper

130 100

95 112.0 93.4 140.0

132 87.1 76.5 114.7

97 64.0 60.2 90.2

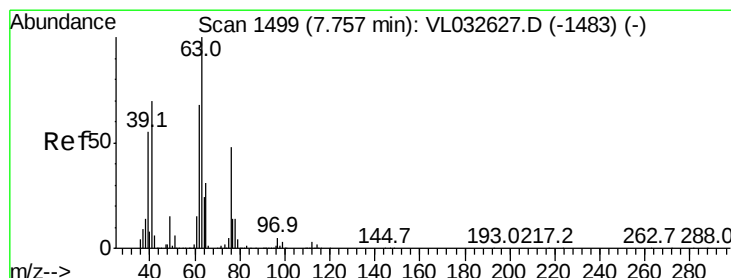
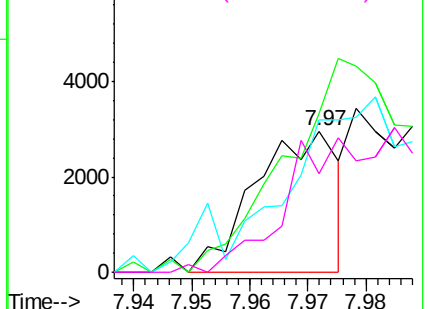
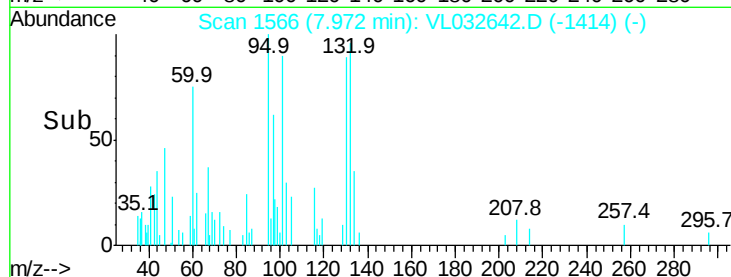


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.046 ppbv

RT: 7.31 min Scan# 1360

Delta R.T. -0.45 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

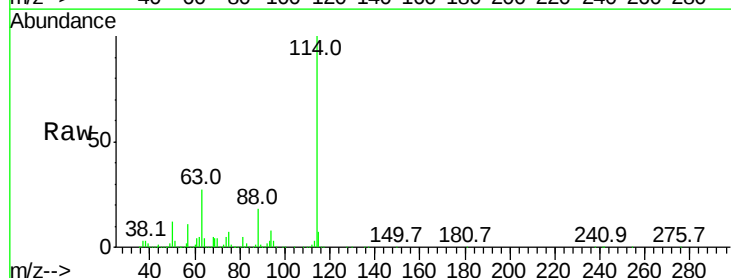
Tgt Ion: 63 Resp: 661206

Ion Ratio Lower Upper

63 100

41 0.2 56.2 84.4#

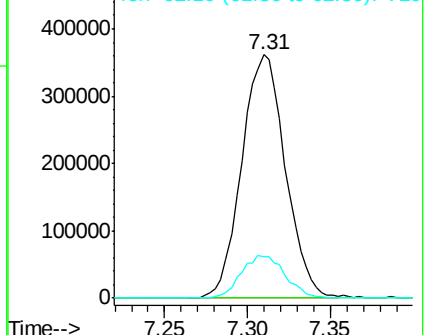
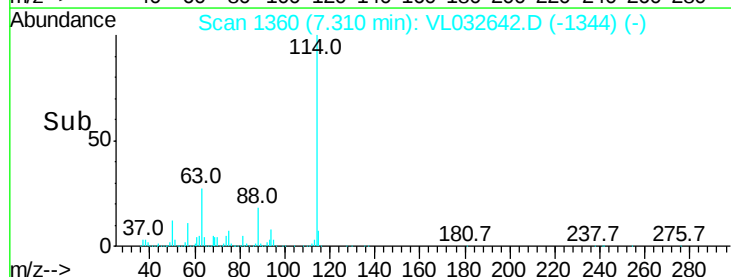
62 17.0 54.4 81.6#

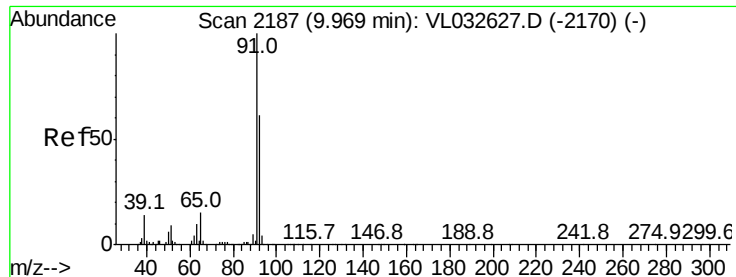


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.032 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. -0.01 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

Instrument :

MSVOA_L

ClientSampleId :

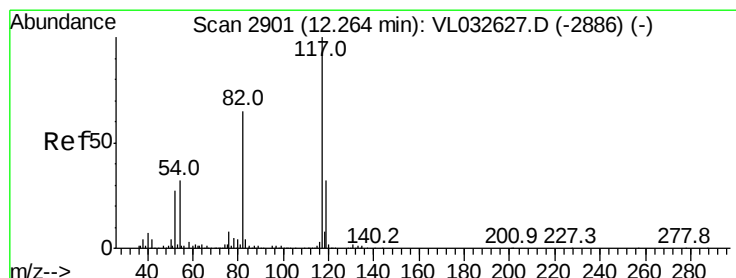
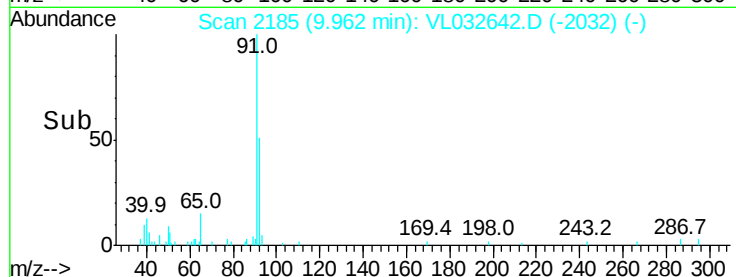
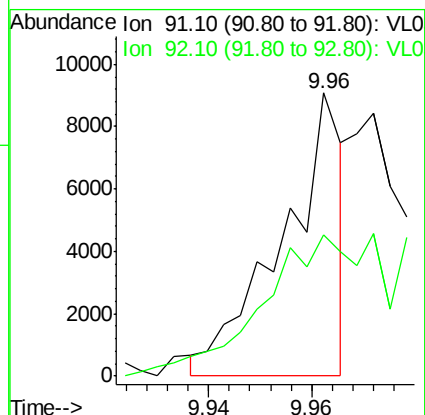
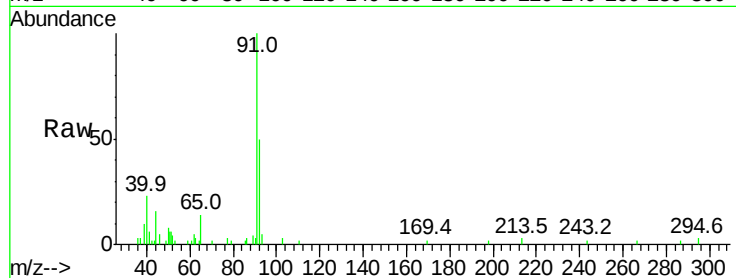
SS04-MIVIDL2

Tgt Ion: 91 Resp: 7328

Ion Ratio Lower Upper

91 100

92 0.0 48.4 72.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.26 min Scan# 2900

Delta R.T. -0.00 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

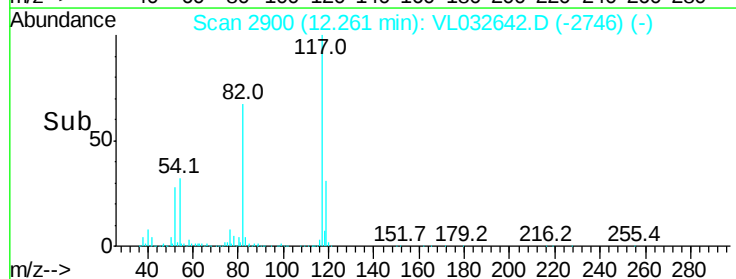
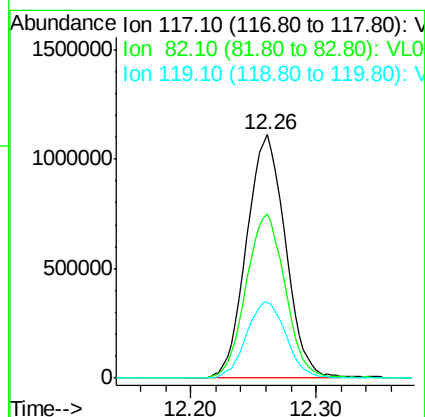
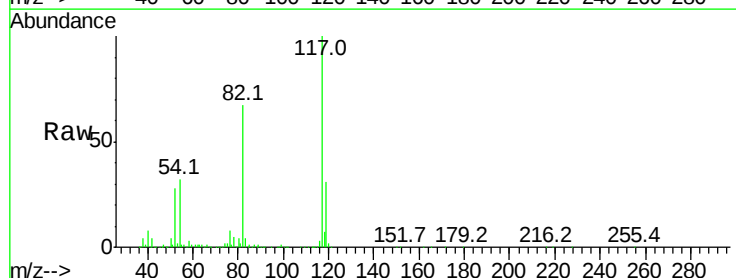
Tgt Ion: 117 Resp: 2396943

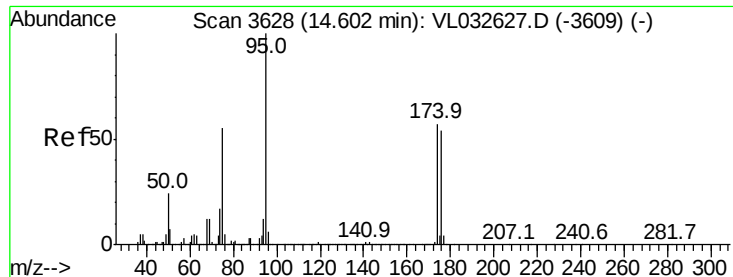
Ion Ratio Lower Upper

117 100

82 68.4 52.7 79.1

119 32.1 26.7 40.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.162 ppbv

RT: 14.60 min Scan# 3626

Delta R.T. -0.01 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

Instrument :

MSVOA_L

ClientSampleId :

SS04-MIVIDL2

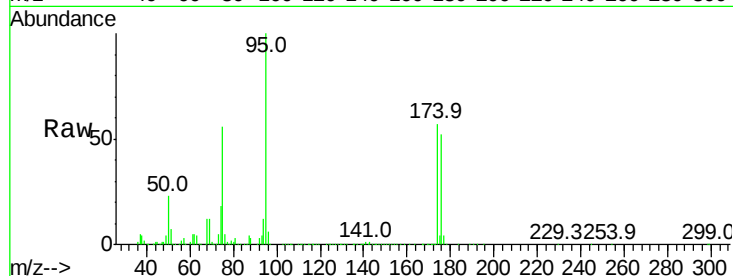
Tgt Ion: 95 Resp: 1833960

Ion Ratio Lower Upper

95 100

174 58.1 46.0 69.0

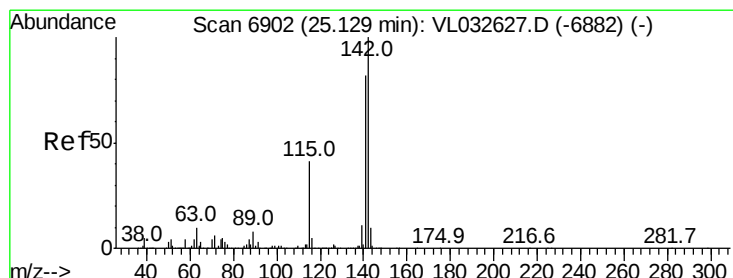
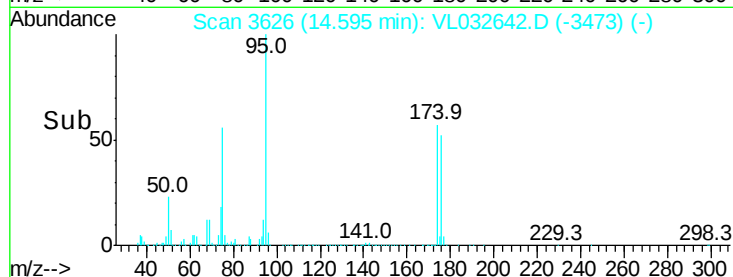
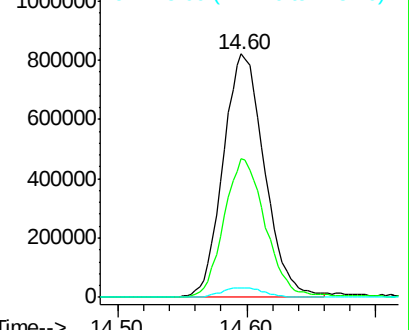
175 4.2 3.4 5.0



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: 0.744 ppbv

RT: 25.09 min Scan# 6891

Delta R.T. -0.03 min

Lab File: VL032642.D

Acq: 17 Oct 2018 15:43

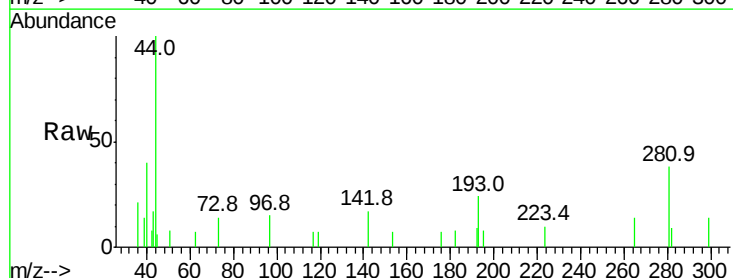
Tgt Ion: 142 Resp: 246

Ion Ratio Lower Upper

142 100

141 48.0 67.5 101.3#

115 0.0 33.5 50.3#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

