

Data File : VL032363.D
Acq On : 15 Aug 2018 22:33
Operator : SY/AP
Sample : J4457-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS01-MIVIDL

Quant Time: Aug 16 05:48:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 14:58:02 2018
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2396134	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	4615223	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	4340214	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	3385910	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

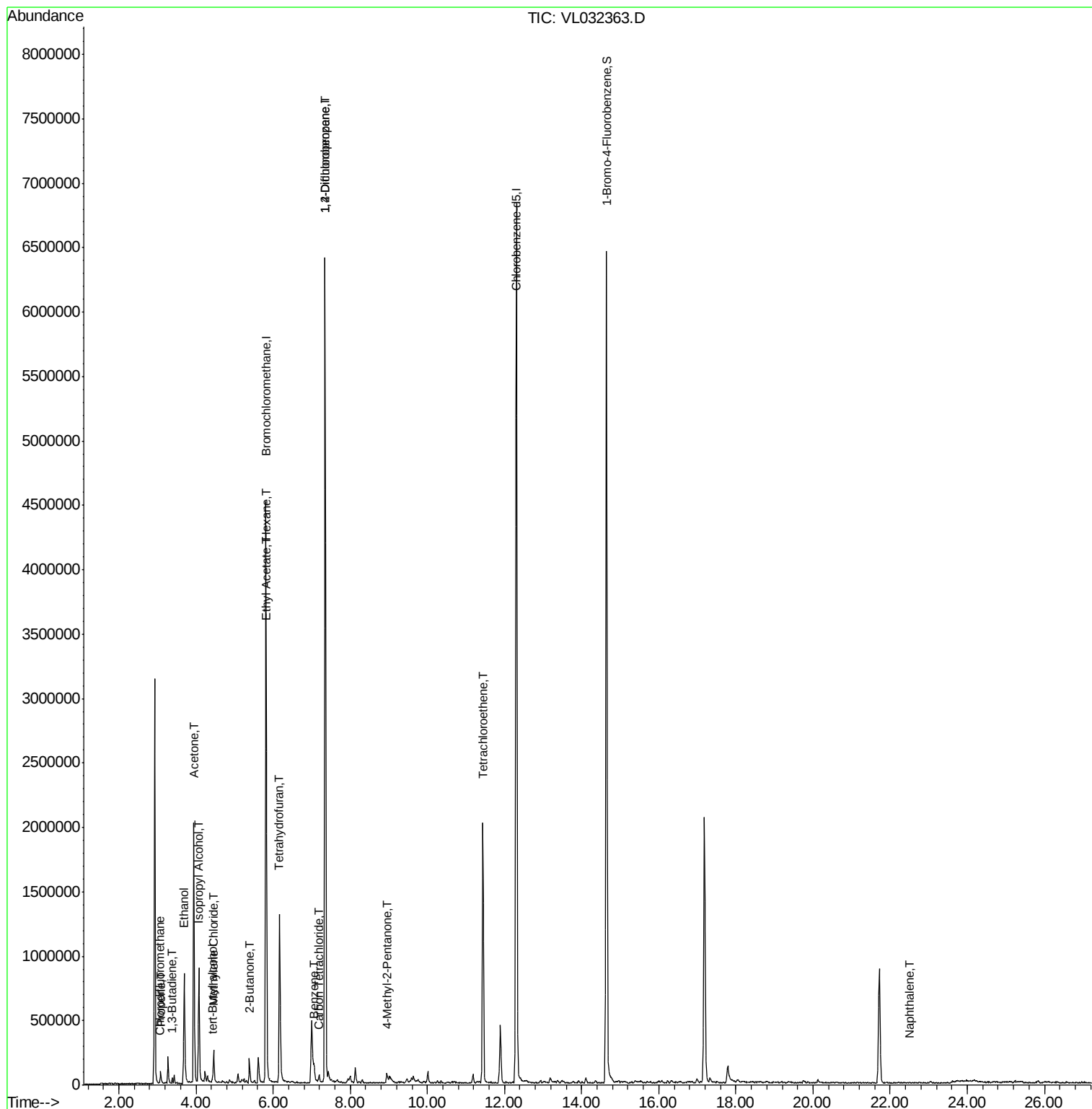
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	6413	Below Cal		98
3) Chlorodifluoromethane	3.06	51	9827	0.044	ppbv	93
9) Propene	3.08	41	11984	0.126	ppbv #	75
13) Ethanol	3.69	45	966584	39.617	ppbv	97
15) Acetone	3.95	43	2006901	8.816	ppbv	100
16) 1,3-Butadiene	3.39	39	10138	0.108	ppbv #	4
17) tert-Butyl alcohol	4.42	59	10696	0.280	ppbv #	56
19) Isopropyl Alcohol	4.07	45	991992	6.471	ppbv	100
20) Methylene Chloride	4.46	84	79517	0.925	ppbv	97
25) Ethyl Acetate	5.84	43	46471	0.095	ppbv #	79
26) Hexane	5.83	57	57110	0.263	ppbv #	43
34) 2-Butanone	5.39	43	199779	0.636	ppbv	98
35) Carbon Tetrachloride	7.19	117	19952	0.073	ppbv	94
36) Benzene	7.06	78	40389	0.103	ppbv #	85
39) 1,2-Dichloropropane	7.35	63	1284141	7.857	ppbv #	24
41) Tetrahydrofuran	6.16	42	526206	3.121	ppbv #	45
50) 4-Methyl-2-Pentanone	8.95	43	40582	0.089	ppbv #	85
52) Tetrachloroethene	11.44	164	489766	4.244	ppbv	94
79) Naphthalene	22.50	128	1137	0.330	ppbv #	73

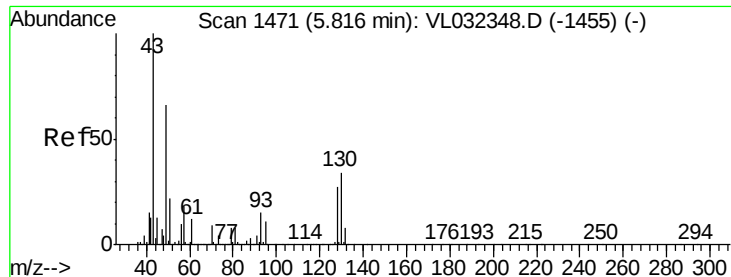
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032363.D

Acq: 15 Aug 2018 22:33

Instrument :

MSVOA_L

ClientSampleId :

SS01-MIVIDL

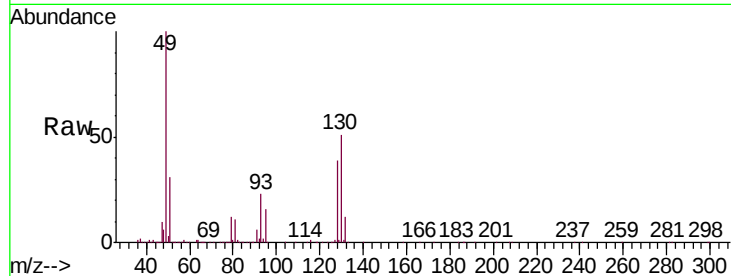
Tgt Ion: 49 Resp: 2396134

Ion Ratio Lower Upper

49 100

128 40.4 20.5 61.6

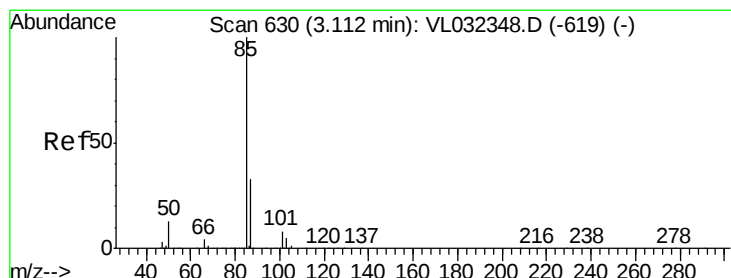
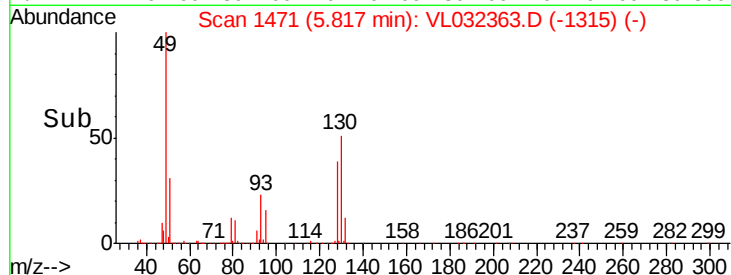
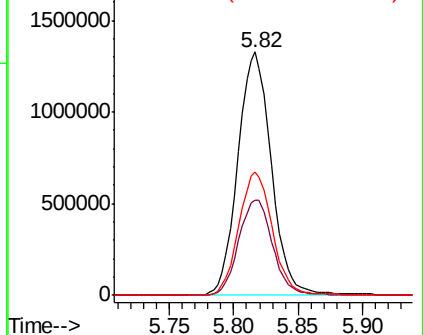
130 51.4 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL032363.D

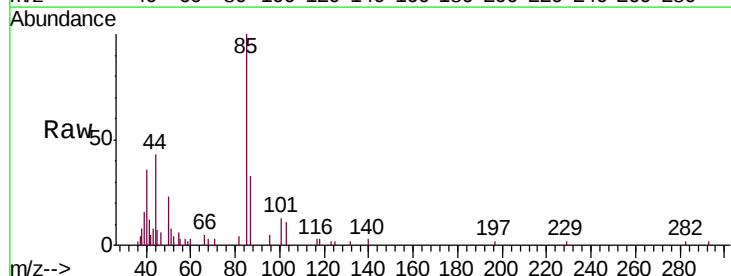
Acq: 15 Aug 2018 22:33

Tgt Ion: 85 Resp: 6413

Ion Ratio Lower Upper

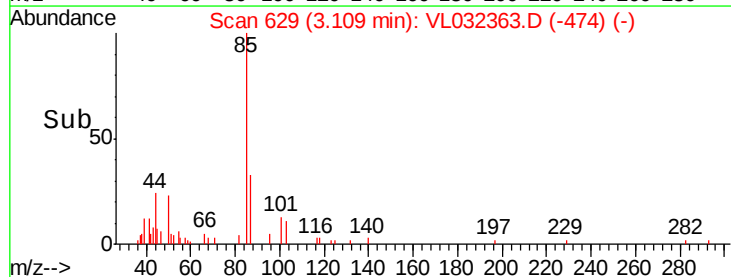
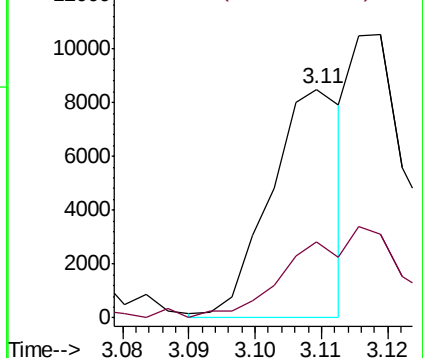
85 100

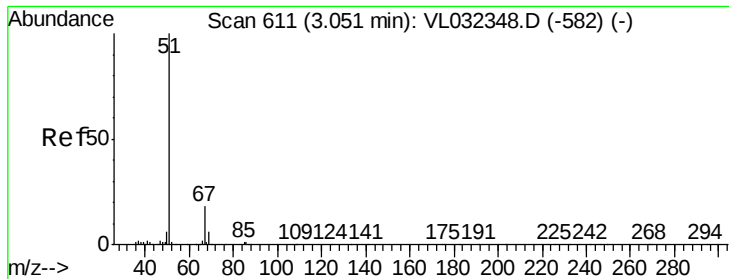
87 31.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.044 ppbv

RT: 3.06 min Scan# 613

Delta R.T. 0.01 min

Lab File: VL032363.D

Acq: 15 Aug 2018 22:33

Instrument :

MSVOA_L

ClientSampleId :

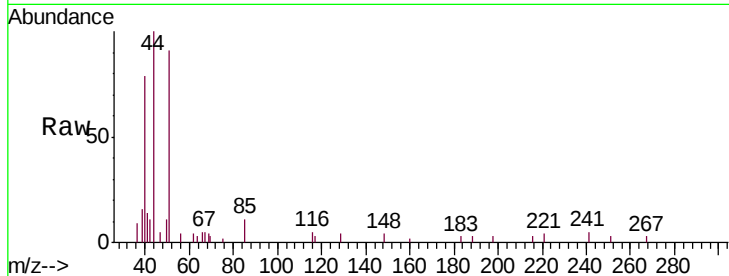
SS01-MIVIDL

Tgt Ion: 51 Resp: 9827

Ion Ratio Lower Upper

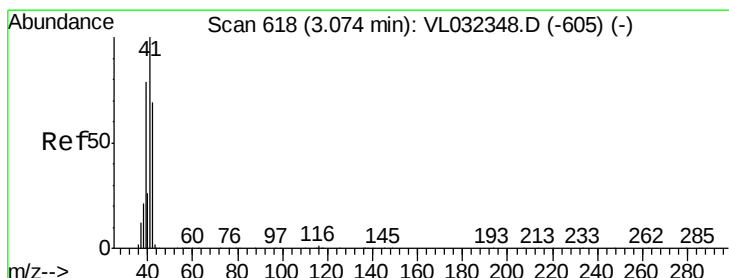
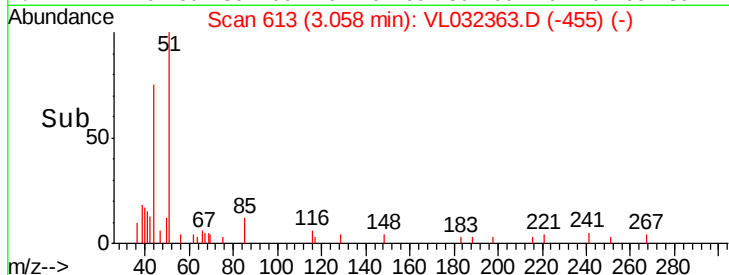
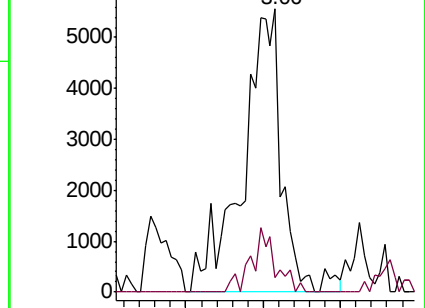
51 100

67 14.1 13.7 20.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.126 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.01 min

Lab File: VL032363.D

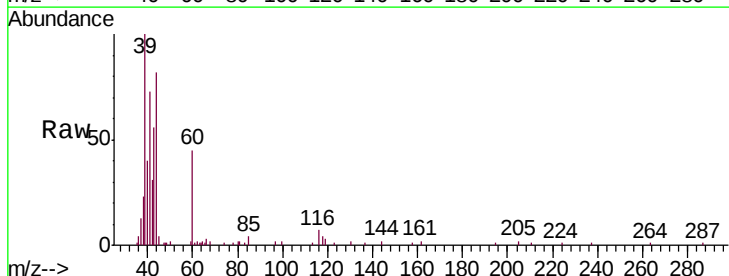
Acq: 15 Aug 2018 22:33

Tgt Ion: 41 Resp: 11984

Ion Ratio Lower Upper

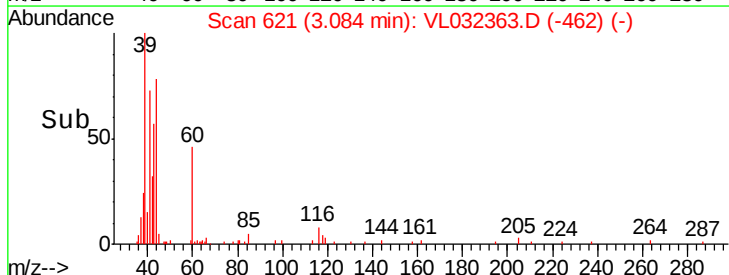
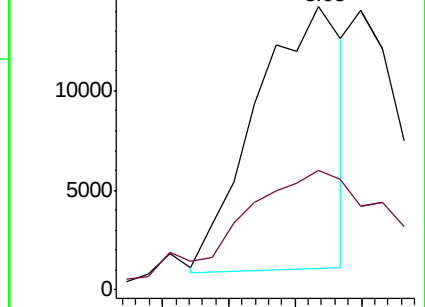
41 100

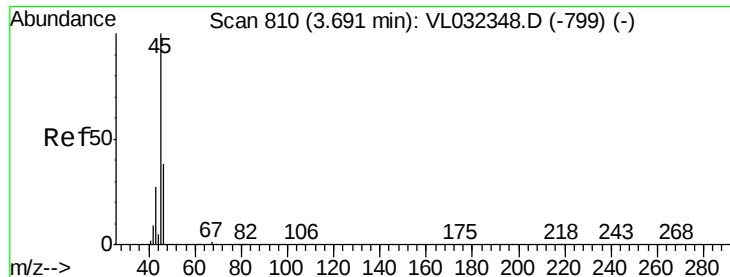
42 90.4 55.9 83.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

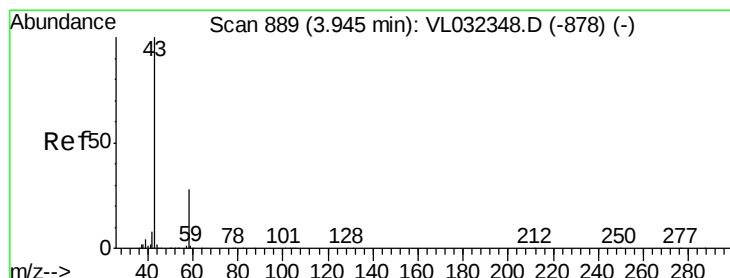
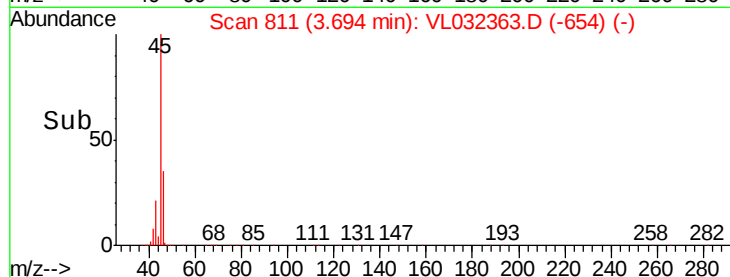
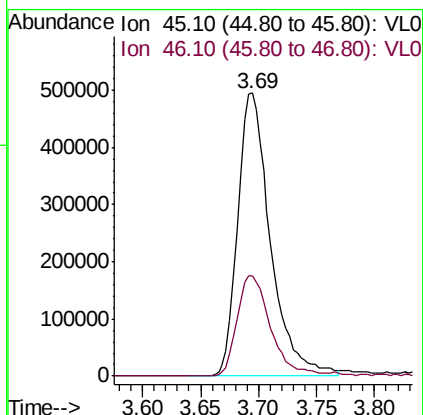
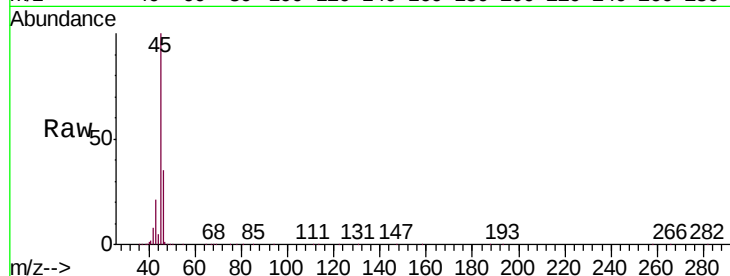




#13
Ethanol
Concen: 39.617 ppbv
RT: 3.69 min Scan# 811
Delta R.T. 0.00 min
Lab File: VL032363.D
Acq: 15 Aug 2018 22:33

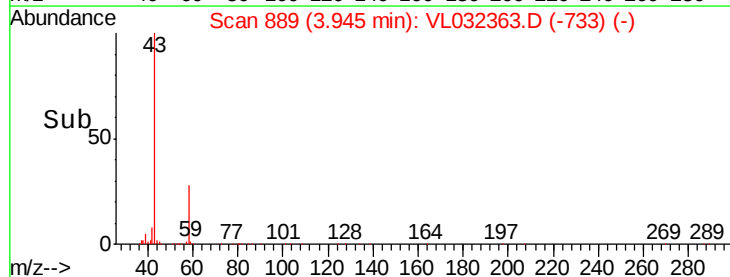
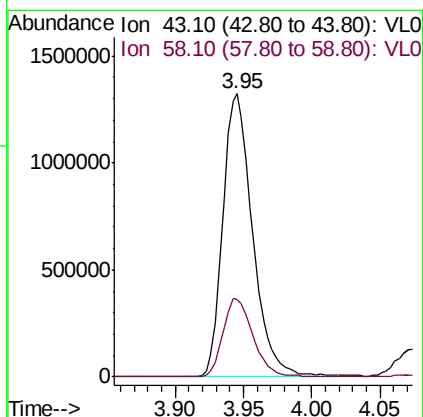
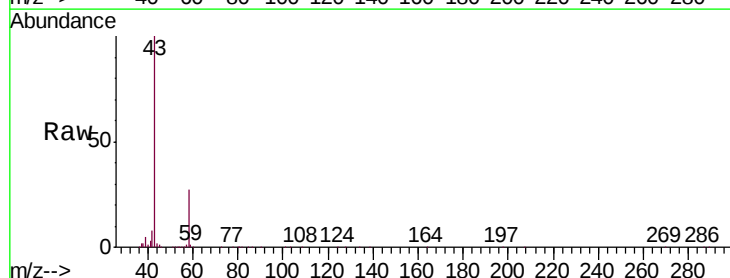
Instrument :
MSVOA_L
ClientSampleId :
SS01-MIVIDL

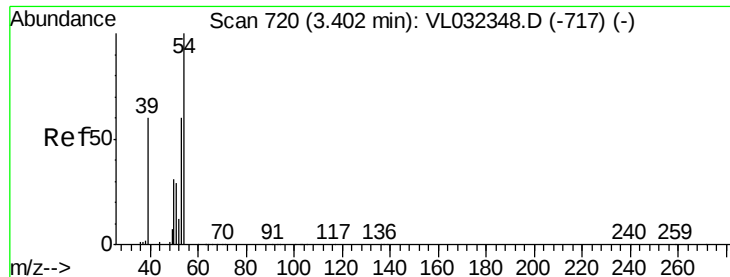
Tgt Ion: 45 Resp: 966584
Ion Ratio Lower Upper
45 100
46 37.2 15.6 62.4



#15
Acetone
Concen: 8.816 ppbv
RT: 3.95 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032363.D
Acq: 15 Aug 2018 22:33

Tgt Ion: 43 Resp: 2006901
Ion Ratio Lower Upper
43 100
58 28.1 22.4 33.6

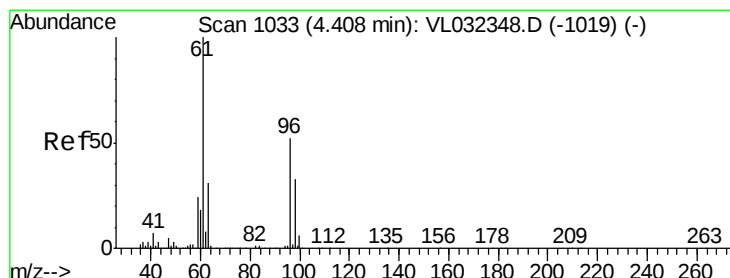
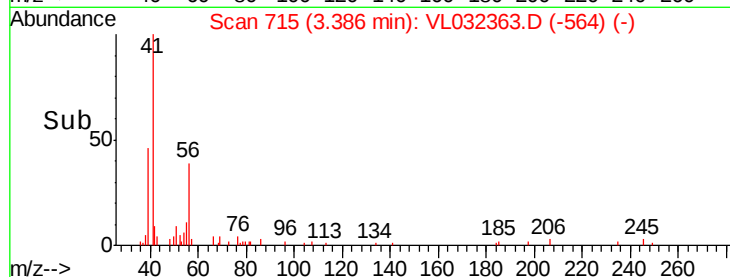
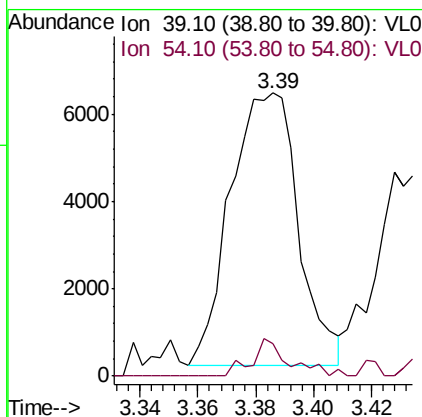
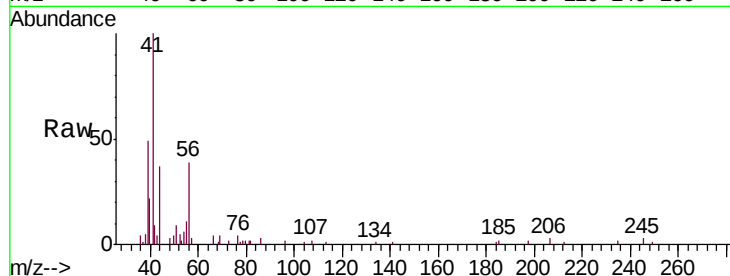




#16
 1,3-Butadiene
 Concen: 0.108 ppbv
 RT: 3.39 min Scan# 715
 Delta R.T. -0.02 min
 Lab File: VL032363.D
 Acq: 15 Aug 2018 22:33

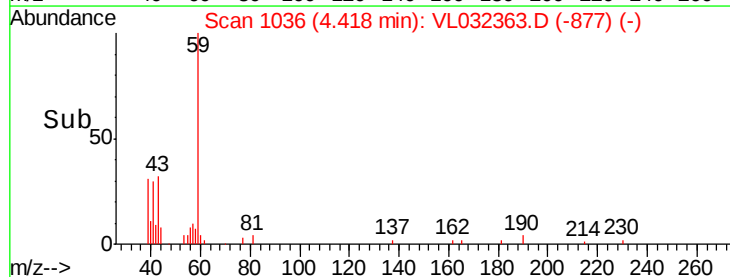
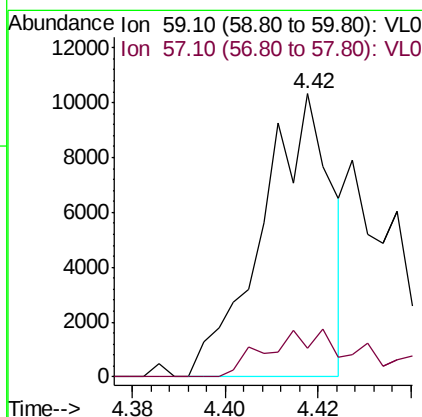
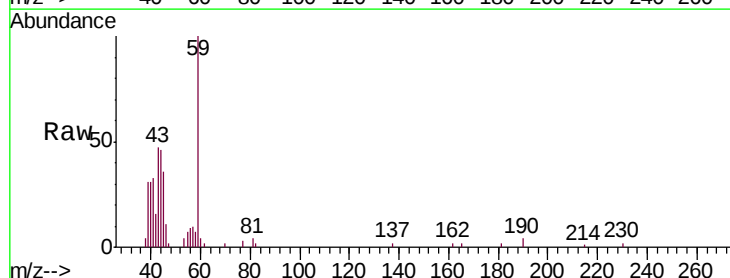
Instrument :
 MSVOA_L
 ClientSampleId :
 SS01-MIVIDL

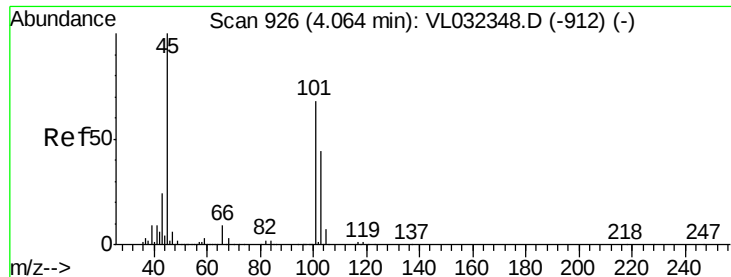
Tgt Ion: 39 Resp: 10138
 Ion Ratio Lower Upper
 39 100
 54 7.5 85.5 128.3#



#17
 tert-Butyl alcohol
 Concen: 0.280 ppbv
 RT: 4.42 min Scan# 1036
 Delta R.T. 0.01 min
 Lab File: VL032363.D
 Acq: 15 Aug 2018 22:33

Tgt Ion: 59 Resp: 10696
 Ion Ratio Lower Upper
 59 100
 57 25.6 7.6 11.4#





#19

Isopropyl Alcohol

Concen: 6.471 ppbv

RT: 4.07 min Scan# 929

Delta R.T. 0.01 min

Lab File: VL032363.D

Acq: 15 Aug 2018 22:33

Instrument :

MSVOA_L

ClientSampleId :

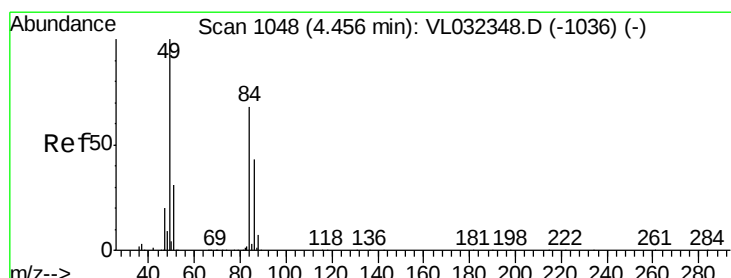
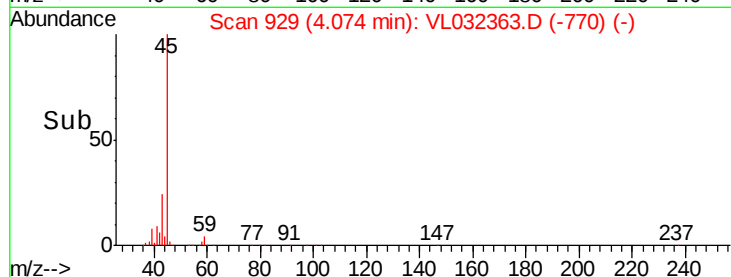
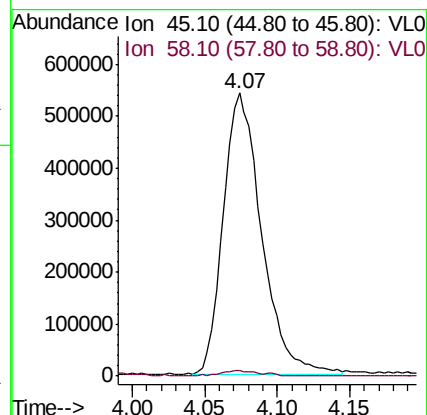
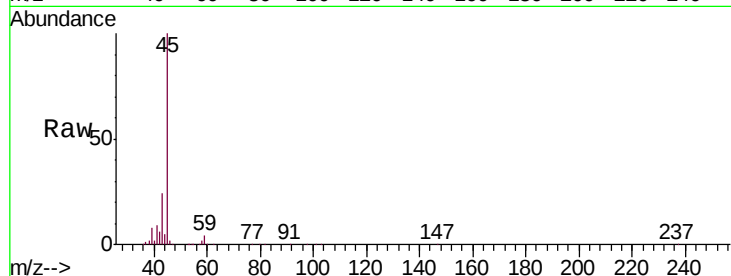
SS01-MIVIDL

Tgt Ion: 45 Resp: 991992

Ion Ratio Lower Upper

45 100

58 1.7 1.4 2.0



#20

Methylene Chloride

Concen: 0.925 ppbv

RT: 4.46 min Scan# 1049

Delta R.T. 0.00 min

Lab File: VL032363.D

Acq: 15 Aug 2018 22:33

Tgt Ion: 84 Resp: 79517

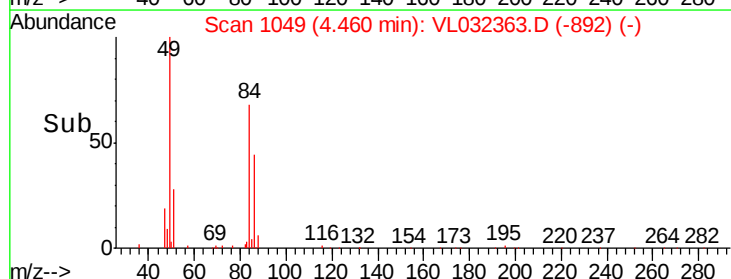
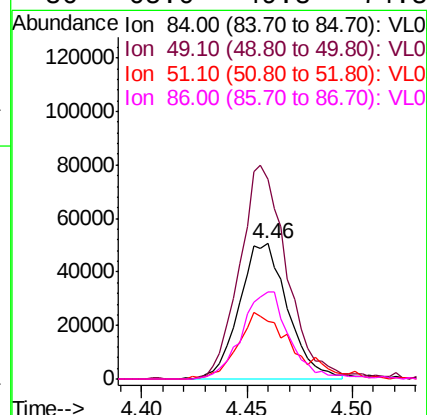
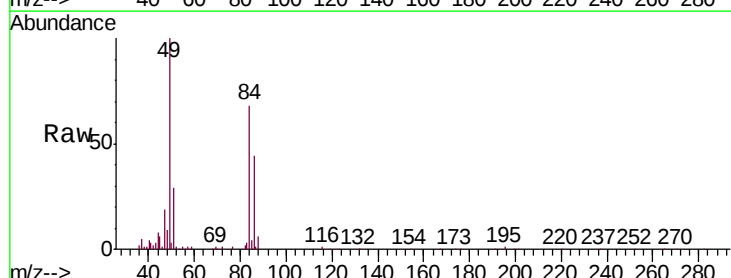
Ion Ratio Lower Upper

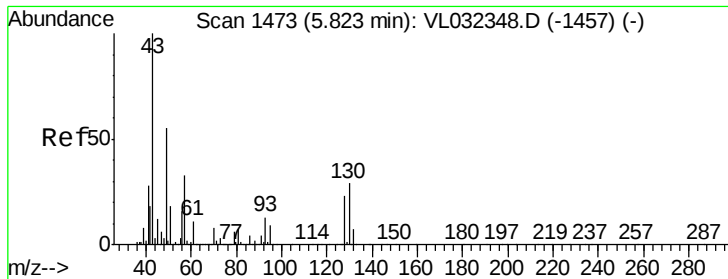
84 100

49 148.2 117.3 175.9

51 41.3 36.6 55.0

86 65.0 49.8 74.8

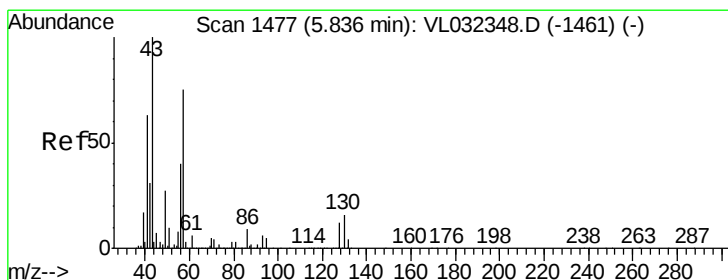
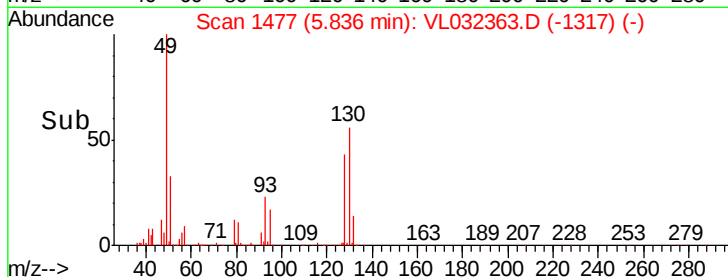
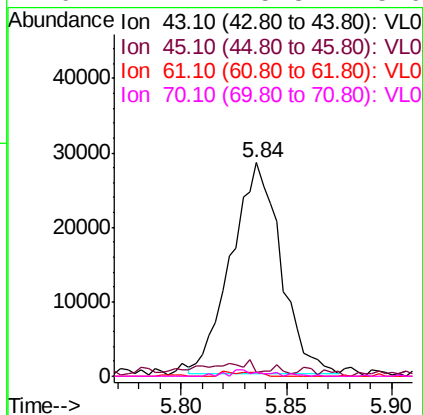
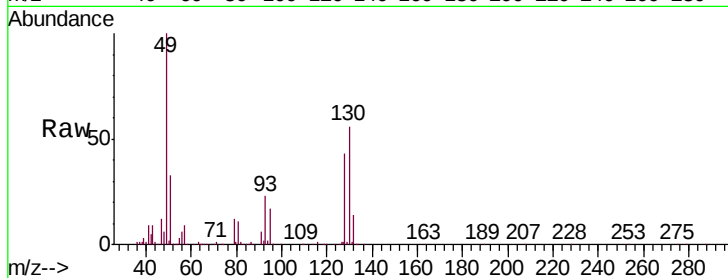




#25
Ethyl Acetate
Concen: 0.095 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. 0.01 min
Lab File: VL032363.D
Acq: 15 Aug 2018 22:33

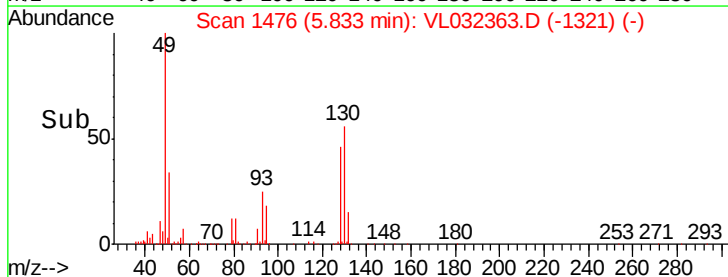
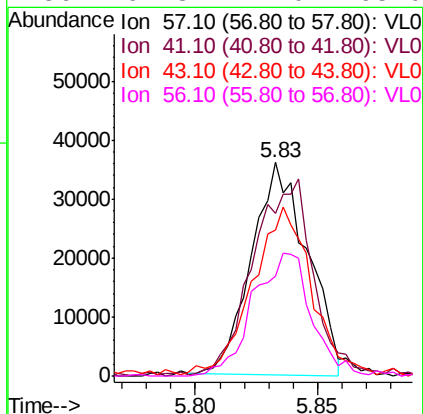
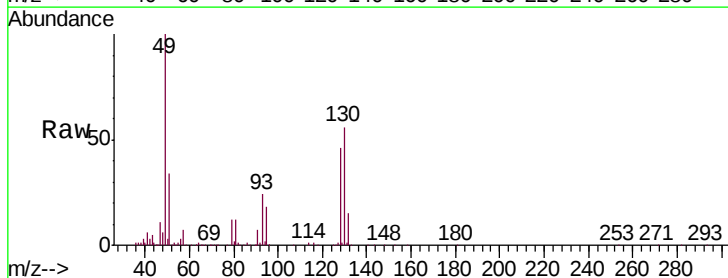
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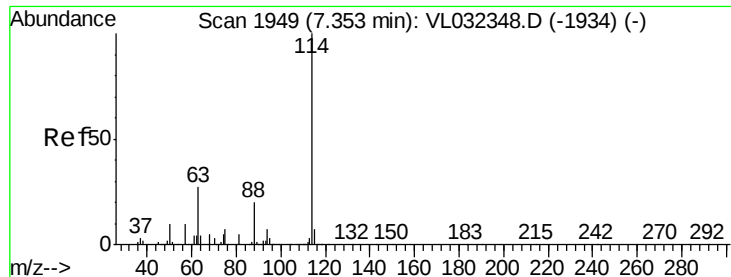
Tgt Ion:	43	Resp:	46471
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	1.8	7.4	11.2#
70	2.4	5.8	8.6#



#26
Hexane
Concen: 0.263 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032363.D
Acq: 15 Aug 2018 22:33

Tgt Ion:	57	Resp:	57110
Ion	Ratio	Lower	Upper
57	100		
41	97.3	68.0	102.0
43	82.6	175.3	262.9#
56	61.3	42.0	63.0

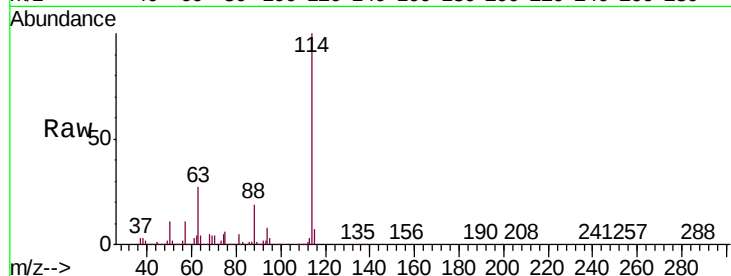




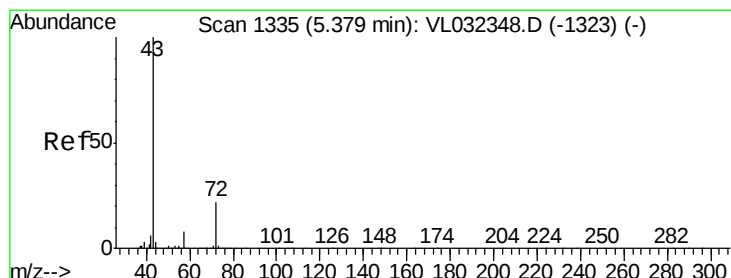
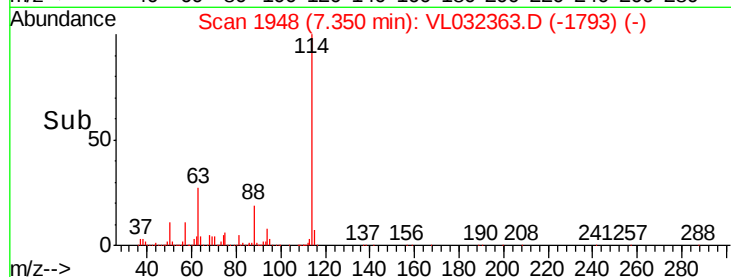
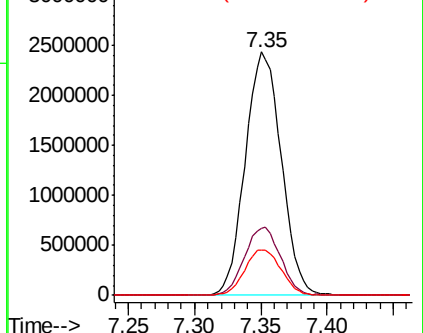
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032363.D
 Acq: 15 Aug 2018 22:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SS01-MIVIDL

Tgt Ion:114 Resp: 4615223
 Ion Ratio Lower Upper
 114 100
 63 28.0 22.0 33.0
 88 19.1 15.3 22.9

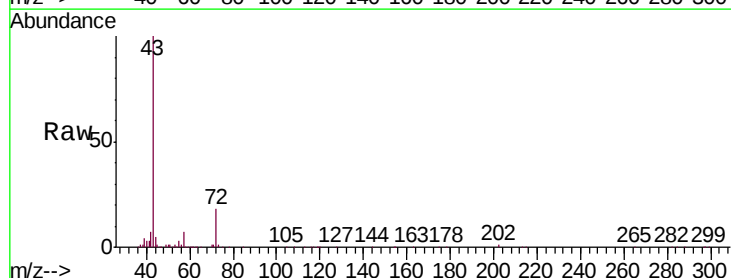


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

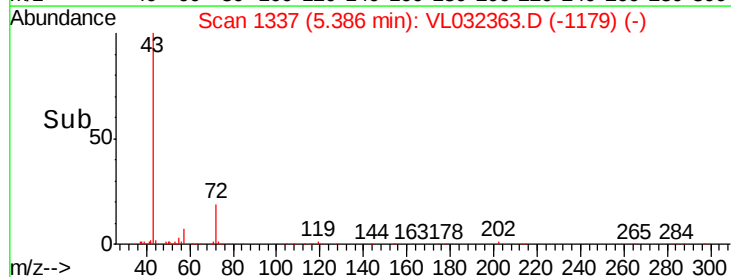
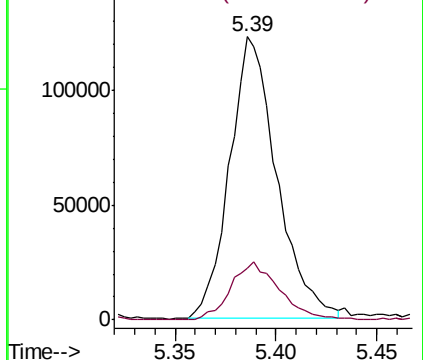


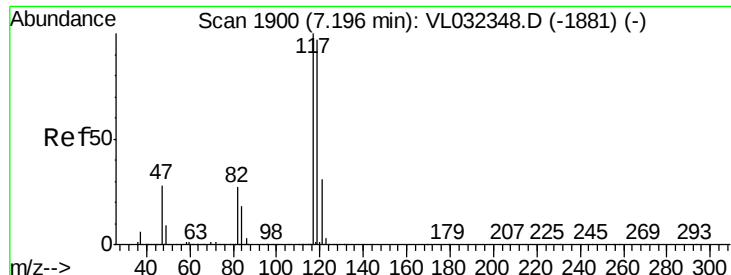
#34
 2-Butanone
 Concen: 0.636 ppbv
 RT: 5.39 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: VL032363.D
 Acq: 15 Aug 2018 22:33

Tgt Ion: 43 Resp: 199779
 Ion Ratio Lower Upper
 43 100
 72 21.7 17.9 26.9



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





#35

Carbon Tetrachloride

Concen: 0.073 ppbv

RT: 7.19 min Scan# 1898

Delta R.T. -0.01 min

Lab File: VL032363.D

Acq: 15 Aug 2018 22:33

Instrument :

MSVOA_L

ClientSampleId :

SS01-MIVIDL

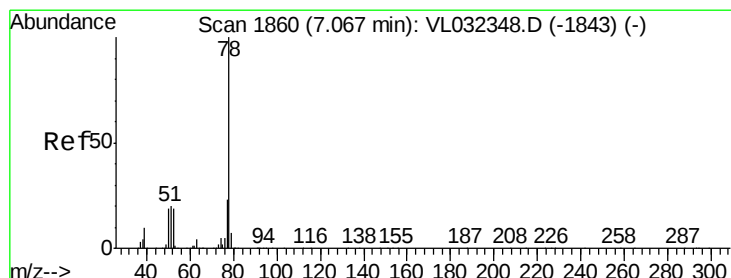
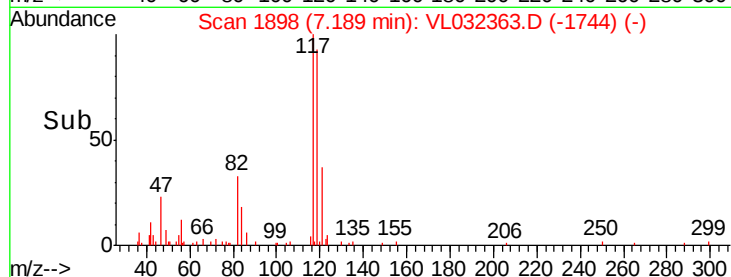
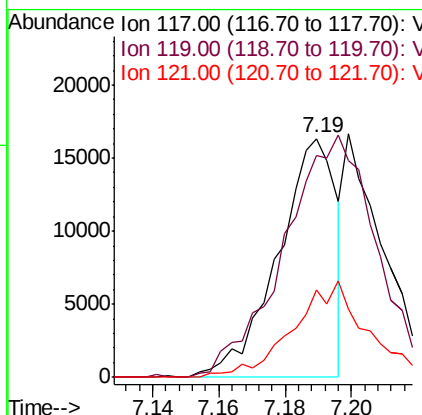
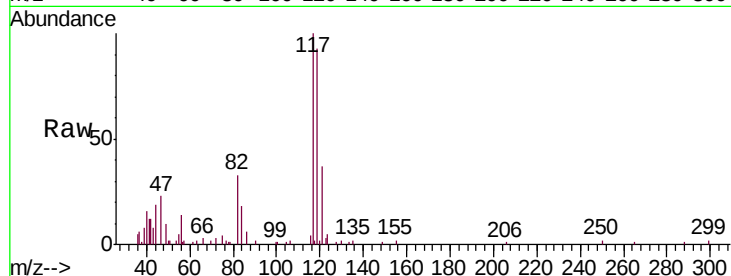
Tgt Ion:117 Resp: 19952

Ion Ratio Lower Upper

117 100

119 91.1 77.2 115.8

121 36.0 25.1 37.7



#36

Benzene

Concen: 0.103 ppbv

RT: 7.06 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL032363.D

Acq: 15 Aug 2018 22:33

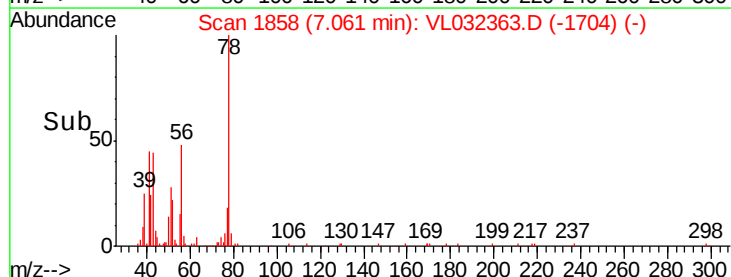
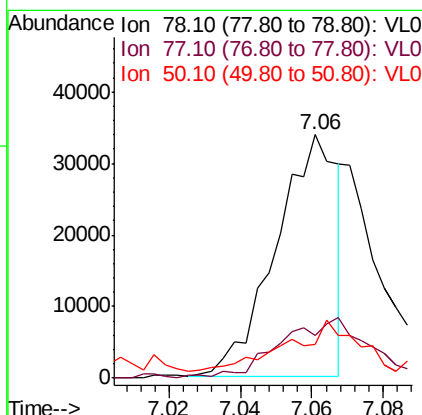
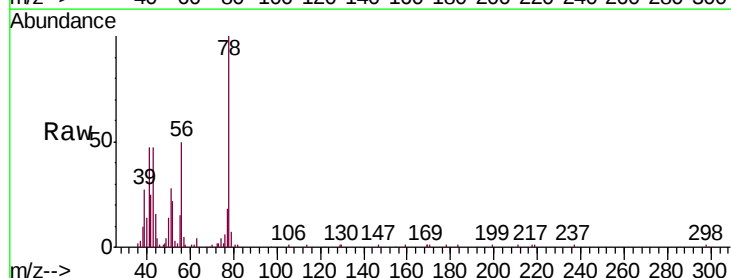
Tgt Ion: 78 Resp: 40389

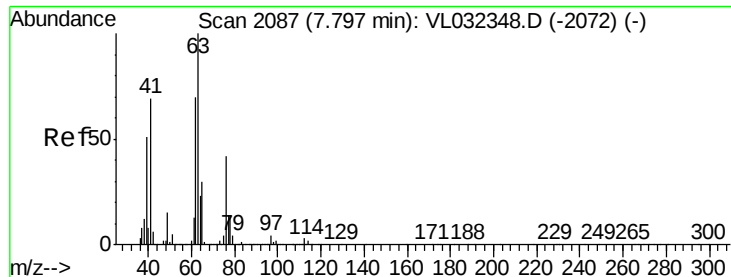
Ion Ratio Lower Upper

78 100

77 16.4 18.0 27.0#

50 11.1 15.1 22.7#

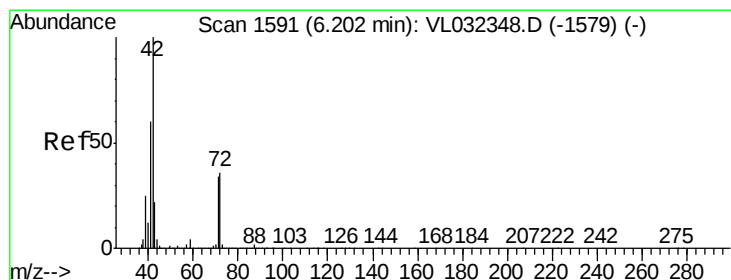
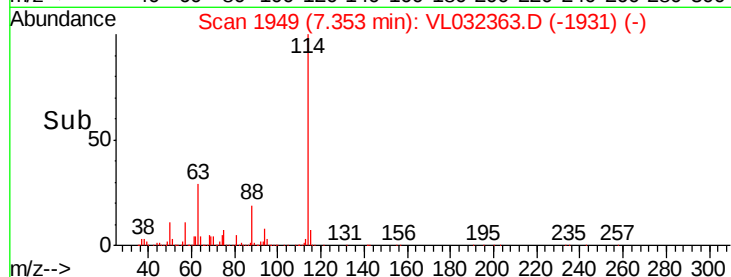
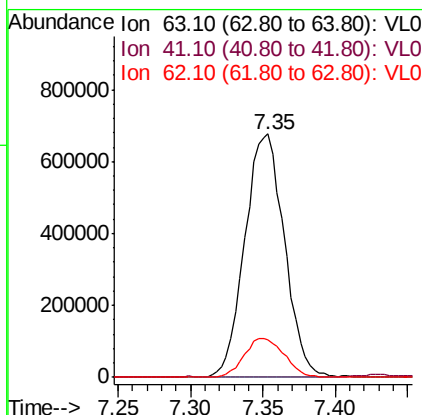
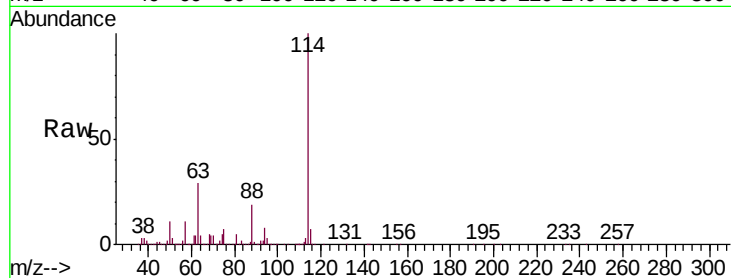




#39
 1,2-Dichloropropane
 Concen: 7.857 ppbv
 RT: 7.35 min Scan# 1949
 Delta R.T. -0.44 min
 Lab File: VL032363.D
 Acq: 15 Aug 2018 22:33

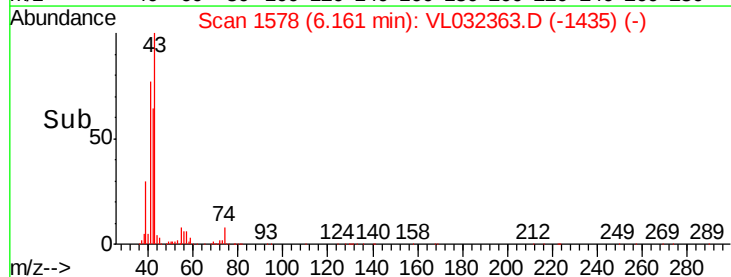
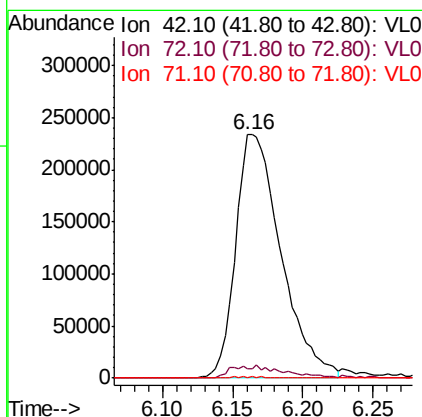
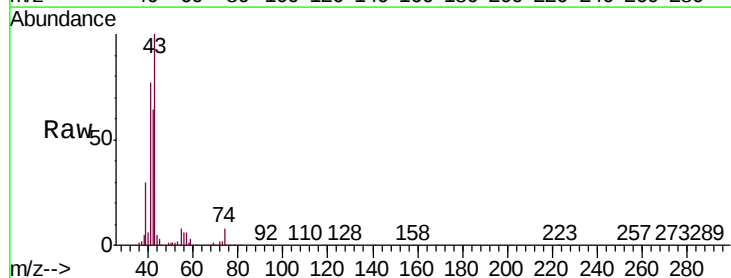
Instrument :
 MSVOA_L
 ClientSampleId :
 SS01-MIVIDL

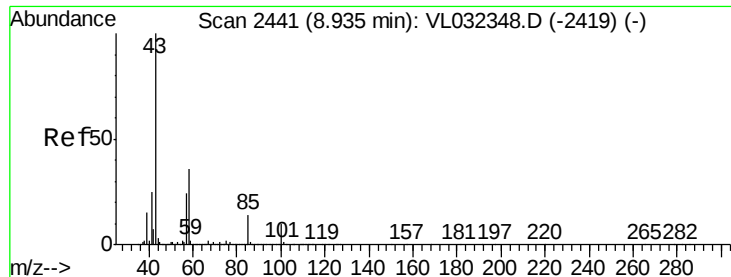
Tgt Ion: 63 Resp: 1284141
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.5 83.3#
 62 15.3 56.3 84.5#



#41
 Tetrahydrofuran
 Concen: 3.121 ppbv
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.04 min
 Lab File: VL032363.D
 Acq: 15 Aug 2018 22:33

Tgt Ion: 42 Resp: 526206
 Ion Ratio Lower Upper
 42 100
 72 6.6 29.8 44.6#
 71 0.4 28.2 42.2#

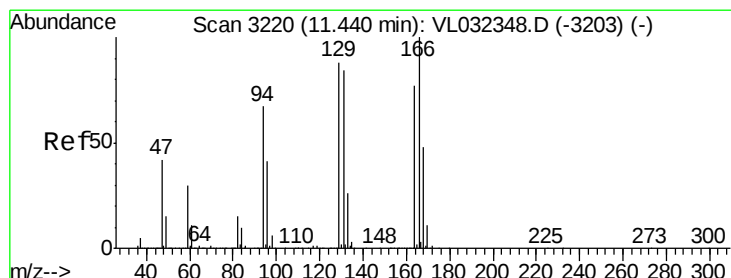
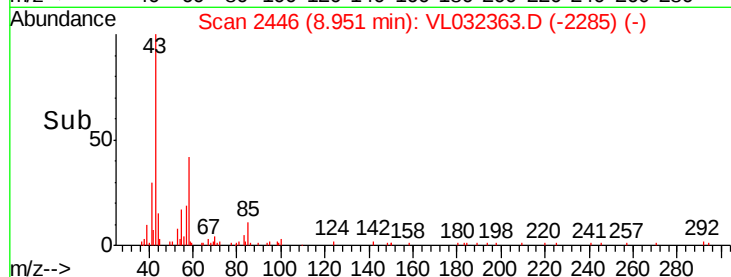
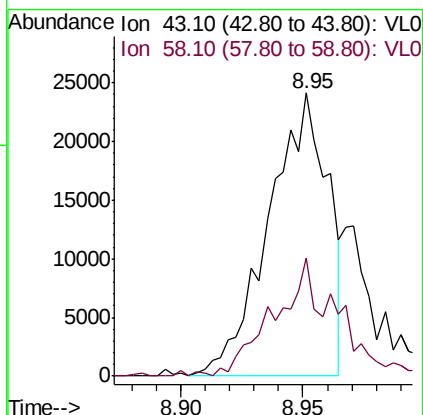
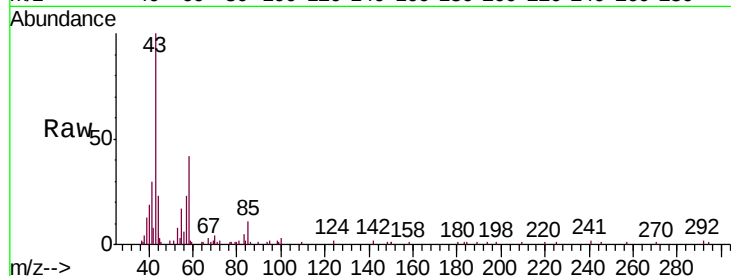




#50
4-Methyl-2-Pentanone
Concen: 0.089 ppbv
RT: 8.95 min Scan# 2446
Delta R.T. 0.02 min
Lab File: VL032363.D
Acq: 15 Aug 2018 22:33

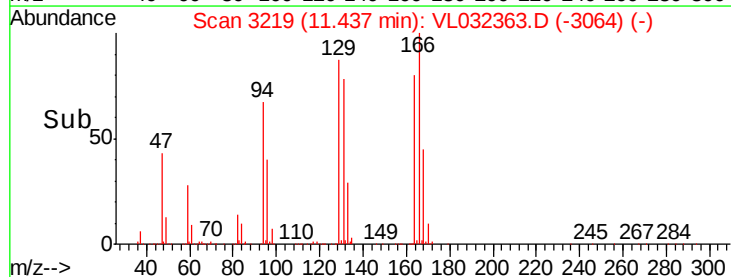
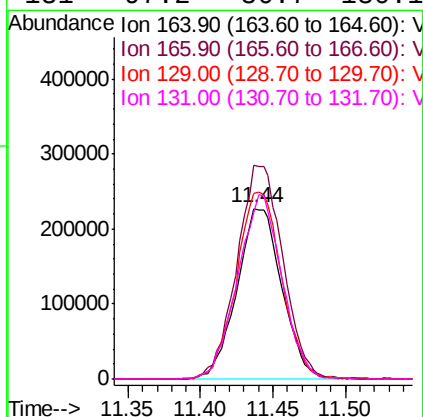
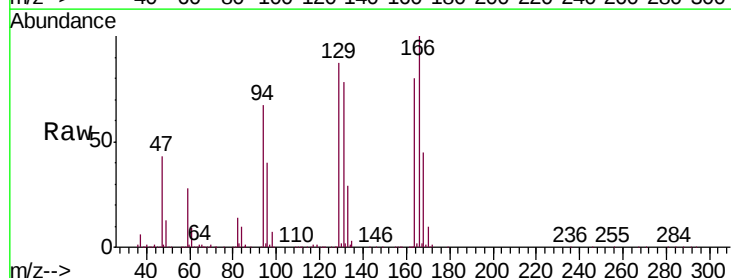
Instrument :
MSVOA_L
ClientSampleId :
SS01-MIVIDL

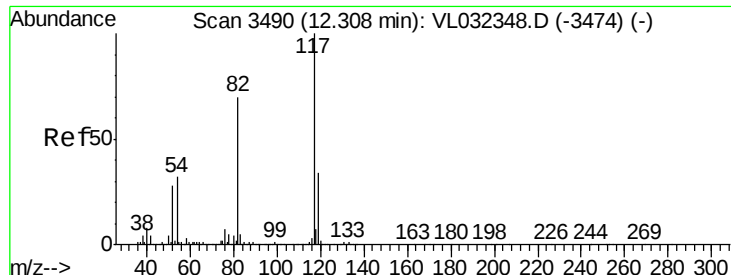
Tgt Ion: 43 Resp: 40582
Ion Ratio Lower Upper
43 100
58 45.2 28.9 43.3#



#52
Tetrachloroethene
Concen: 4.244 ppbv
RT: 11.44 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VL032363.D
Acq: 15 Aug 2018 22:33

Tgt Ion: 164 Resp: 489766
Ion Ratio Lower Upper
164 100
166 124.8 103.5 155.3
129 108.4 90.9 136.3
131 97.2 86.7 130.1

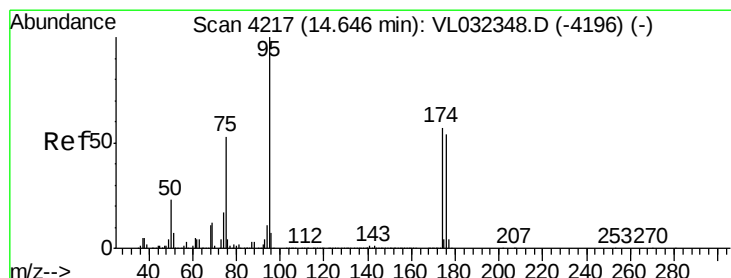
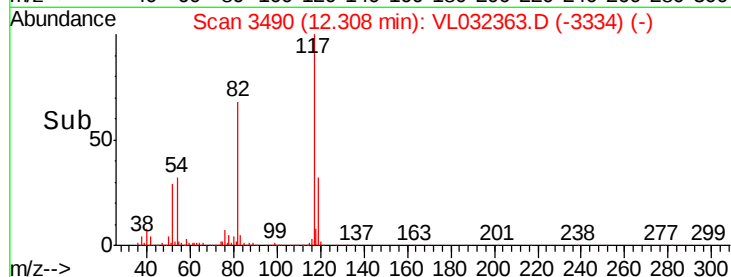
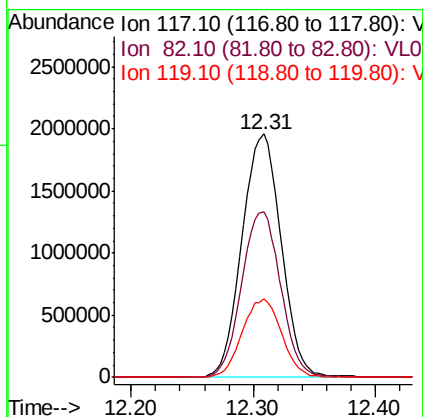
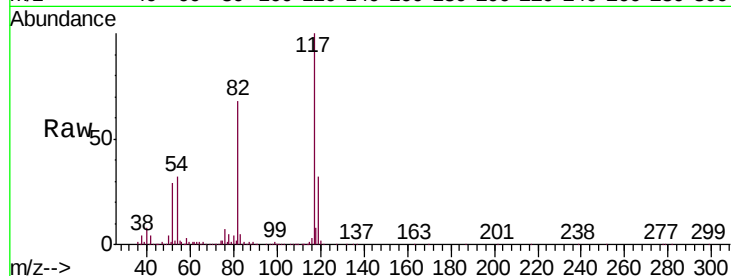




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.31 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VL032363.D
Acq: 15 Aug 2018 22:33

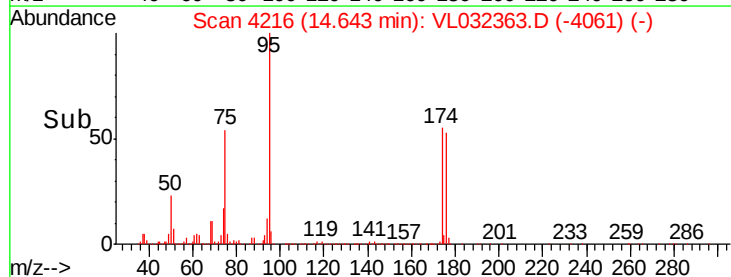
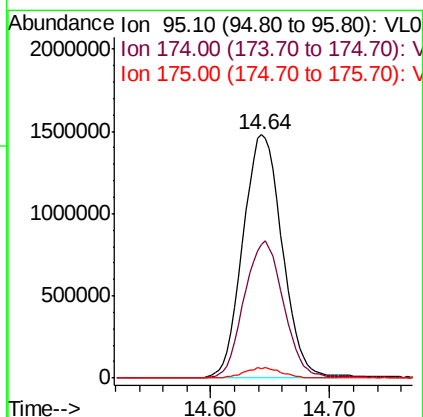
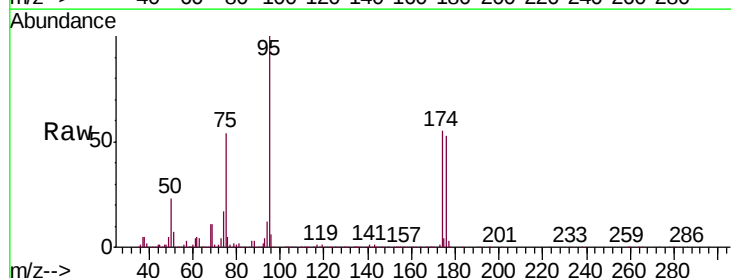
Instrument :
MSVOA_L
ClientSampleId :
SS01-MIVIDL

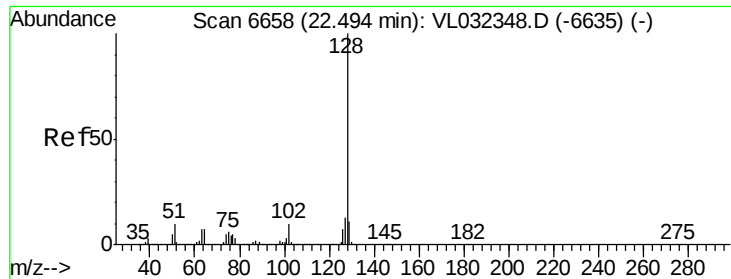
Tgt Ion: 117 Resp: 4340214
Ion Ratio Lower Upper
117 100
82 68.4 55.1 82.7
119 32.4 46.0 69.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.225 ppbv
RT: 14.64 min Scan# 4216
Delta R.T. -0.00 min
Lab File: VL032363.D
Acq: 15 Aug 2018 22:33

Tgt Ion: 95 Resp: 3385910
Ion Ratio Lower Upper
95 100
174 57.3 46.2 69.4
175 4.1 3.4 5.0





#79

Naphthalene

Concen: 0.330 ppbv

RT: 22.50 min Scan# 6659

Delta R.T. 0.00 min

Lab File: VL032363.D

Acq: 15 Aug 2018 22:33

Instrument :

MSVOA_L

ClientSampleId :

SS01-MIVIDL

Tgt Ion:128 Resp: 1137

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 18.3 8.6 13.0#

