

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL060118\
 Data File : VL032039.D
 Acq On : 2 Jun 2018 2:53
 Operator : SY/AP
 Sample : J3225-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jun 02 03:40:45 2018
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:31:35 2018
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1110108	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2125847	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.36	117	1972620	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.70	95	1502777	9.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

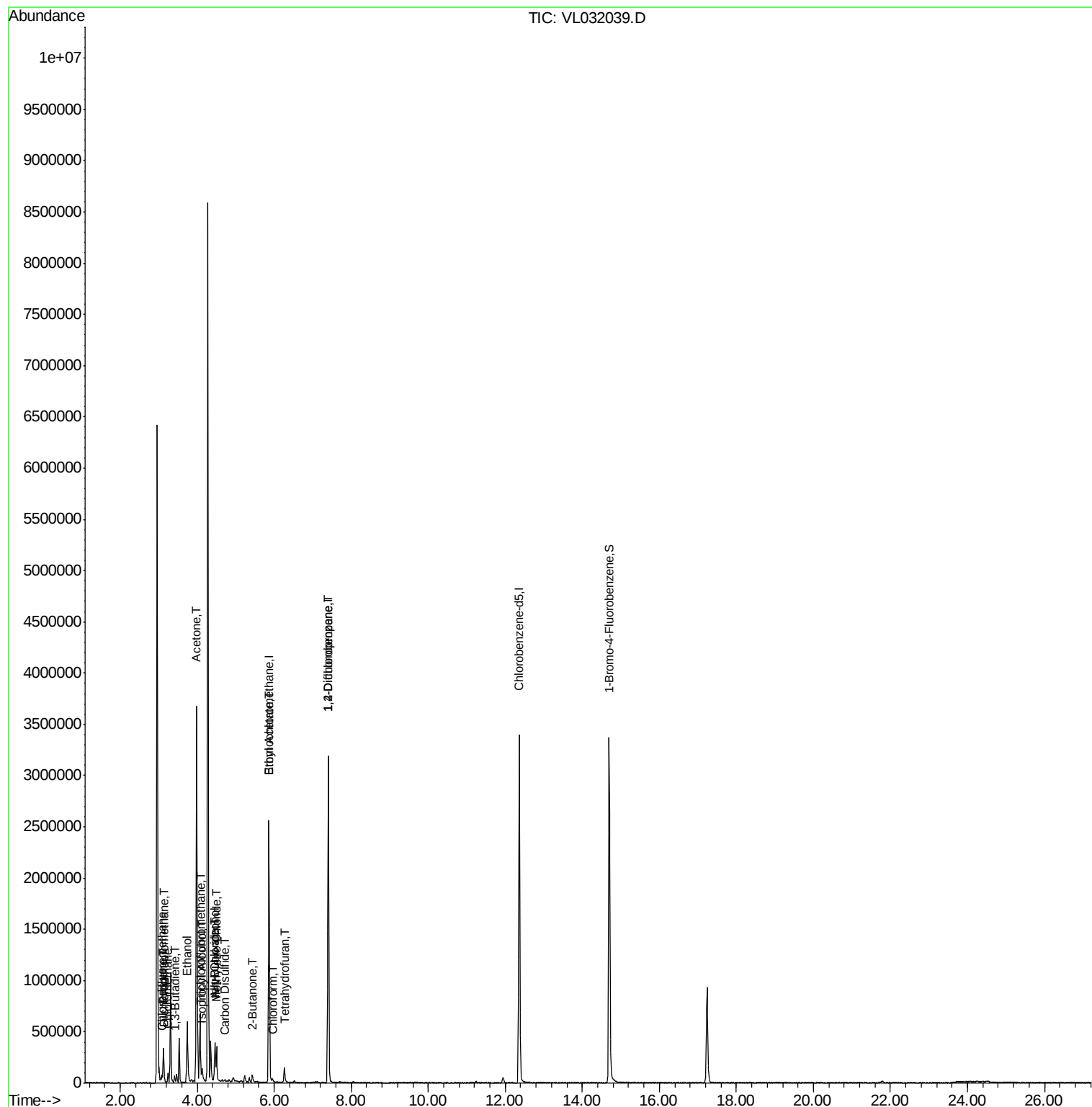
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.15	85	40568	0.30	ppbv	93
3) Chlorodifluoromethane	3.09	51	63564	0.61	ppbv #	89
4) Chloromethane	3.24	50	33949	0.64	ppbv	93
9) Propene	3.12	41	35150	1.03	ppbv	88
11) Trichlorofluoromethane	4.09	101	35881	0.17	ppbv	97
13) Ethanol	3.74	45	693952	52.06	ppbv	99
15) Acetone	3.98	43	3791494	28.32	ppbv	90
16) 1,3-Butadiene	3.42	39	19037	0.39	ppbv #	21
17) tert-Butyl alcohol	4.47	59	29277	0.46	ppbv #	72
19) Isopropyl Alcohol	4.13	45	146055	1.65	ppbv #	1
20) Methylene Chloride	4.50	84	113339	1.86	ppbv #	87
21) Allyl Chloride	4.46	41	83065	0.88	ppbv #	89
25) Ethyl Acetate	5.86	43	9953	0.04	ppbv #	1
27) Carbon Disulfide	4.71	76	6456	0.04	ppbv #	1
29) Chloroform	5.95	83	16303	0.08	ppbv #	83
34) 2-Butanone	5.43	43	79269	0.47	ppbv	99
39) 1,2-Dichloropropane	7.40	63	561771	8.16	ppbv #	21
41) Tetrahydrofuran	6.27	42	69948	0.97	ppbv	95

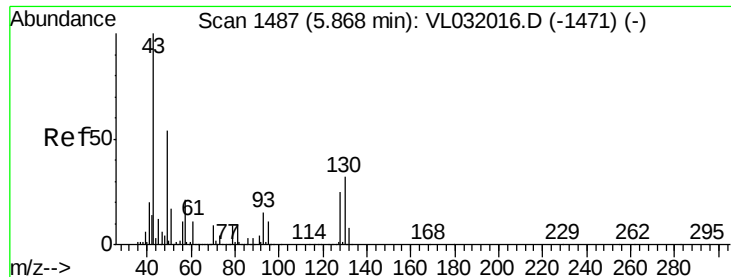
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL060118\
Data File : VL032039.D
Acq On : 2 Jun 2018 2:53
Operator : SY/AP
Sample : J3225-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Jun 02 03:40:45 2018
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:31:35 2018
QLast Update : Fri Jun 01 02:31:35 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VL032039.D

Acq: 2 Jun 2018 2:53

Instrument :

MSVOA_L

ClientSampleId :

IA1

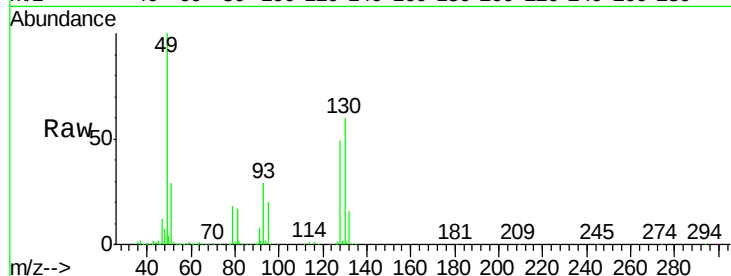
Tgt Ion: 49 Resp: 1110108

Ion Ratio Lower Upper

49 100

128 49.4 24.1 72.3

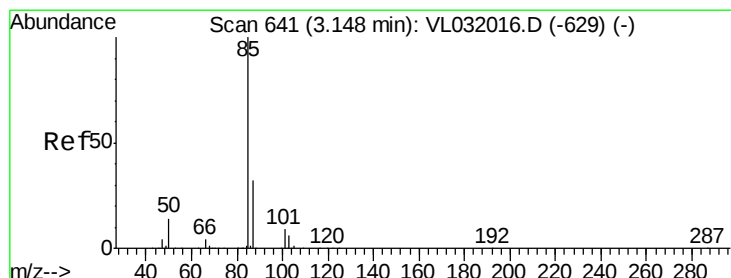
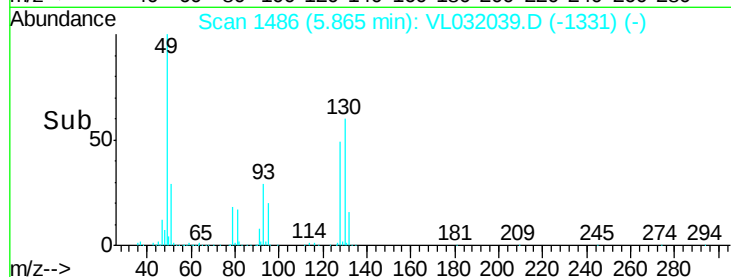
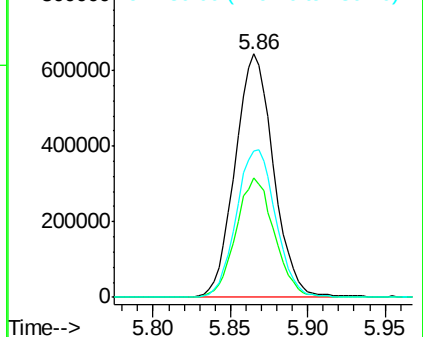
130 62.8 30.9 92.8



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: 0.30 ppbv

RT: 3.15 min Scan# 641

Delta R.T. 0.00 min

Lab File: VL032039.D

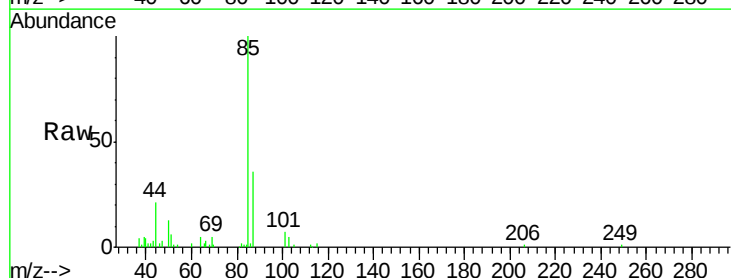
Acq: 2 Jun 2018 2:53

Tgt Ion: 85 Resp: 40568

Ion Ratio Lower Upper

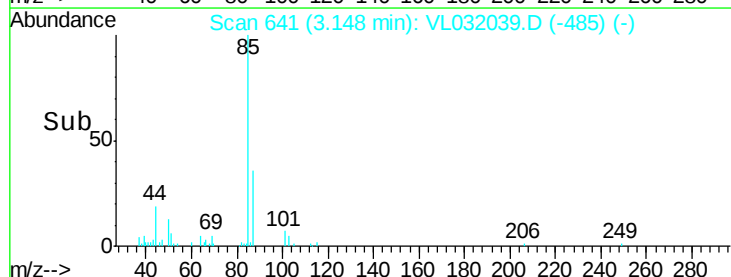
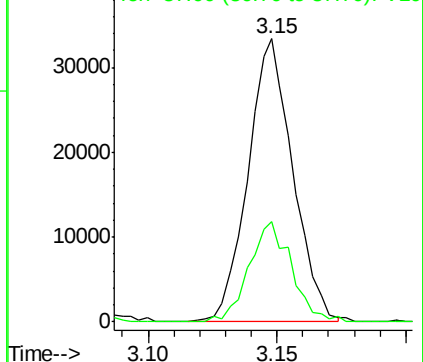
85 100

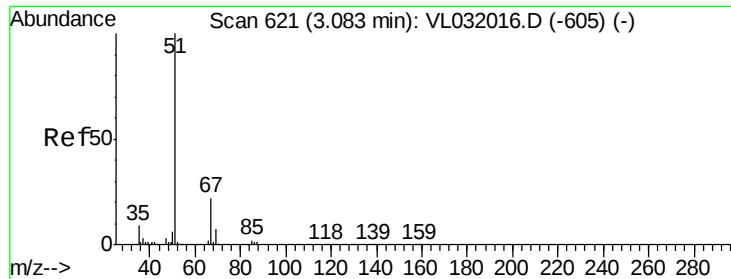
87 35.6 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.61 ppbv

RT: 3.09 min Scan# 622

Delta R.T. 0.00 min

Lab File: VL032039.D

Acq: 2 Jun 2018 2:53

Instrument :

MSVOA_L

ClientSampleId :

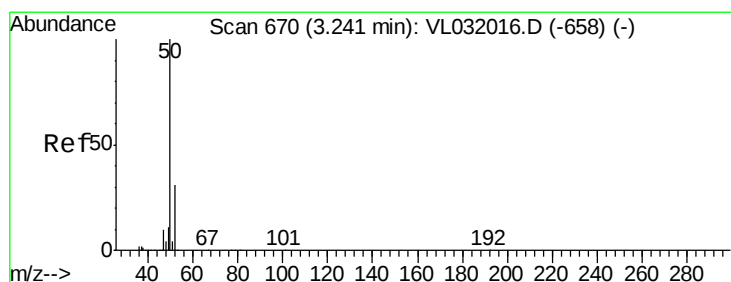
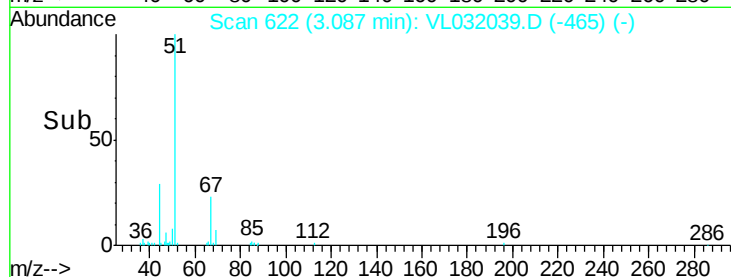
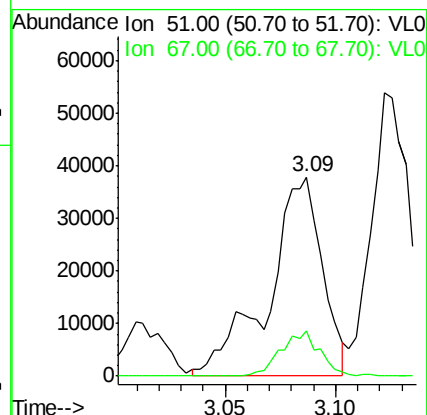
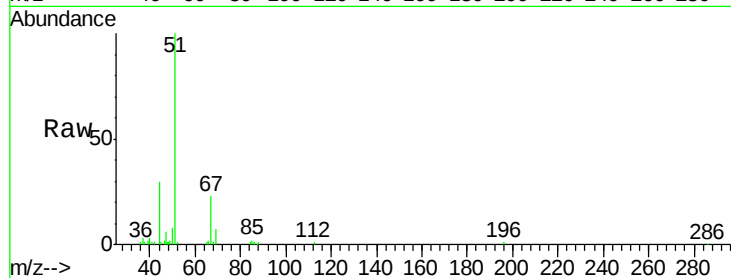
IA1

Tgt Ion: 51 Resp: 63564

Ion Ratio Lower Upper

51 100

67 16.4 17.2 25.8#



#4

Chloromethane

Concen: 0.64 ppbv

RT: 3.24 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL032039.D

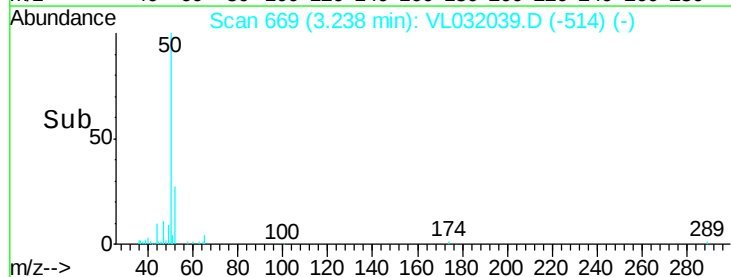
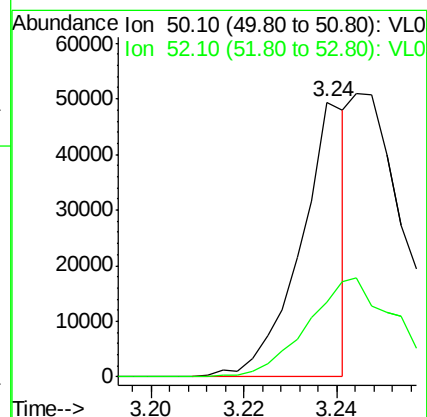
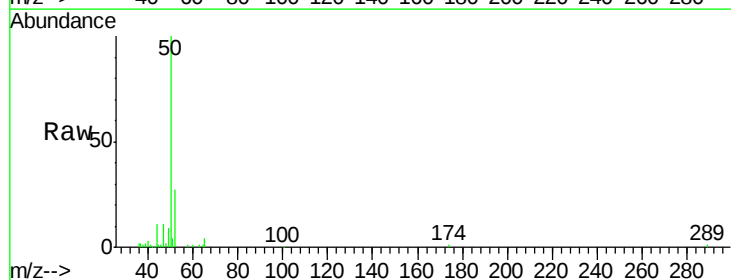
Acq: 2 Jun 2018 2:53

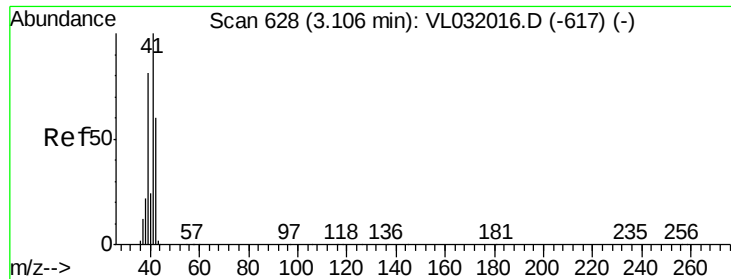
Tgt Ion: 50 Resp: 33949

Ion Ratio Lower Upper

50 100

52 27.2 25.0 37.6





#9

Propene

Concen: 1.03 ppbv

RT: 3.12 min Scan# 632

Delta R.T. 0.01 min

Lab File: VL032039.D

Acq: 2 Jun 2018 2:53

Instrument :

MSVOA_L

ClientSampleId :

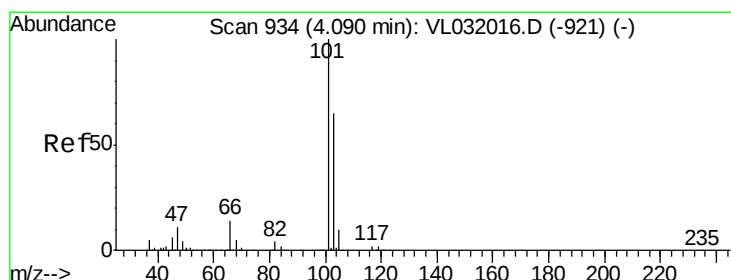
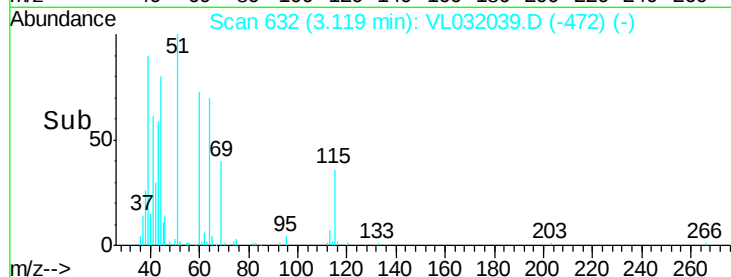
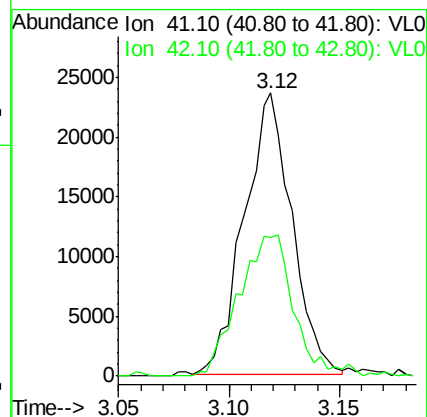
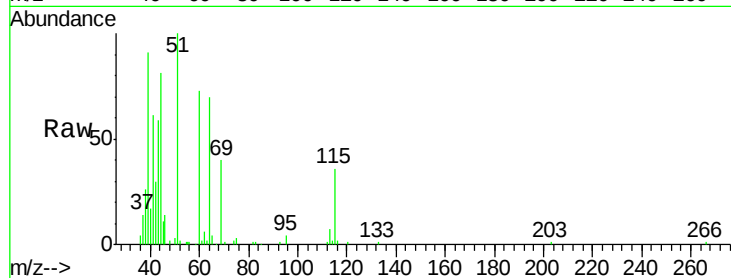
IA1

Tgt Ion: 41 Resp: 35150

Ion Ratio Lower Upper

41 100

42 58.6 54.4 81.6



#11

Trichlorofluoromethane

Concen: 0.17 ppbv

RT: 4.09 min Scan# 935

Delta R.T. 0.00 min

Lab File: VL032039.D

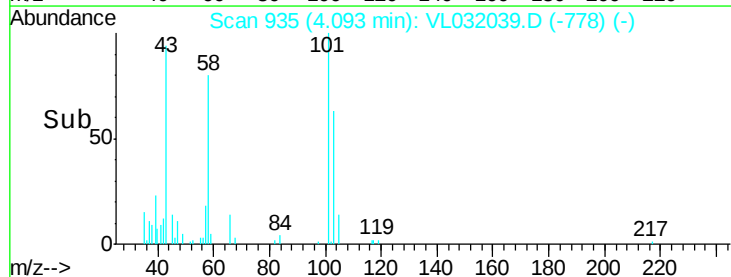
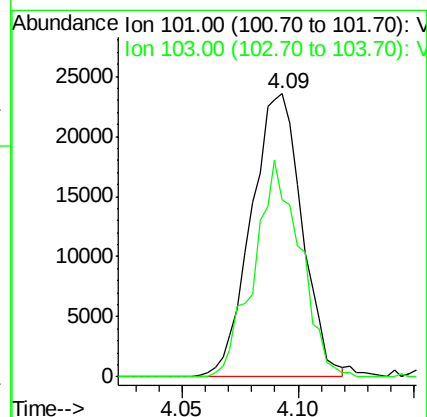
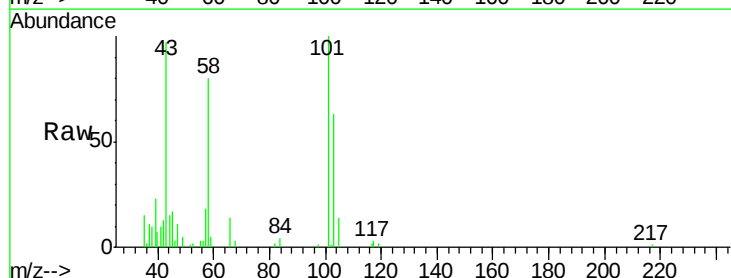
Acq: 2 Jun 2018 2:53

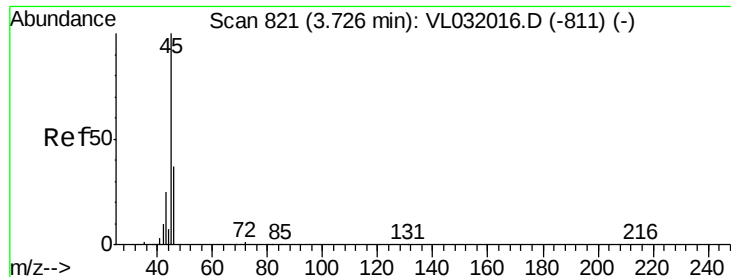
Tgt Ion: 101 Resp: 35881

Ion Ratio Lower Upper

101 100

103 62.7 52.0 78.0





#13

Ethanol

Concen: 52.06 ppbv

RT: 3.74 min Scan# 826

Delta R.T. 0.02 min

Lab File: VL032039.D

Acq: 2 Jun 2018 2:53

Instrument :

MSVOA_L

ClientSampleId :

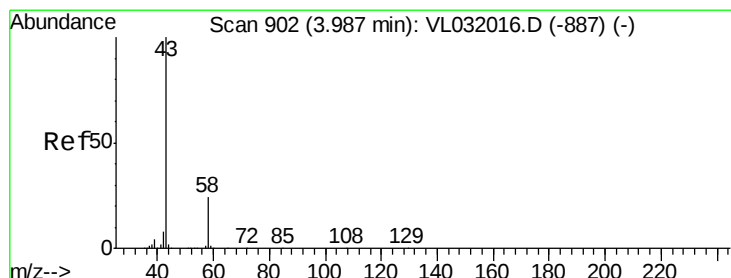
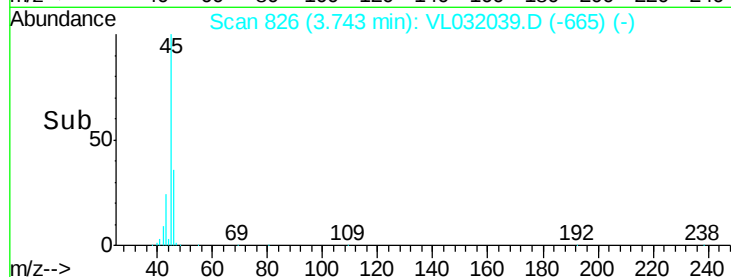
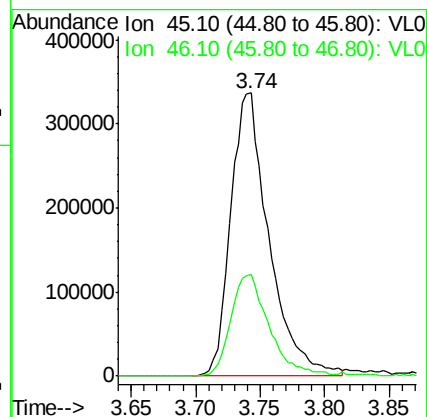
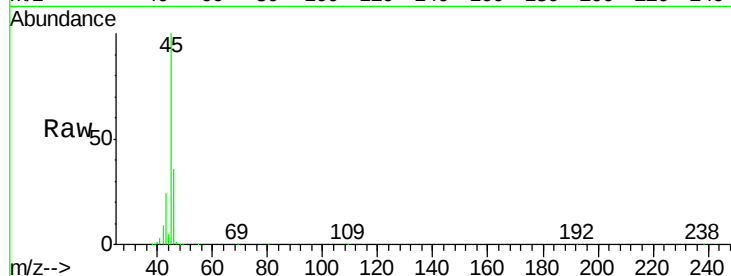
IA1

Tgt Ion: 45 Resp: 693952

Ion Ratio Lower Upper

45 100

46 36.7 14.9 59.5



#15

Acetone

Concen: 28.32 ppbv

RT: 3.98 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL032039.D

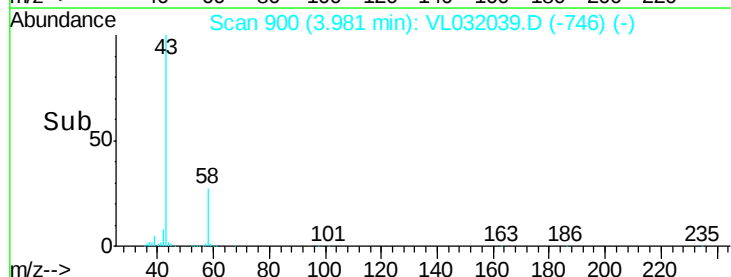
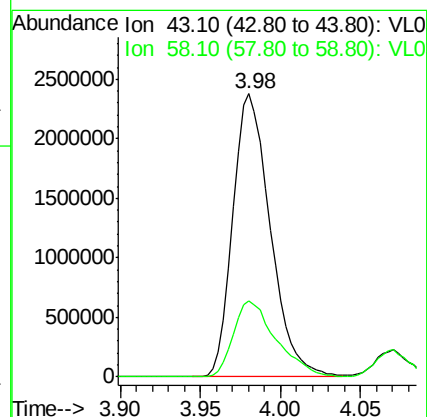
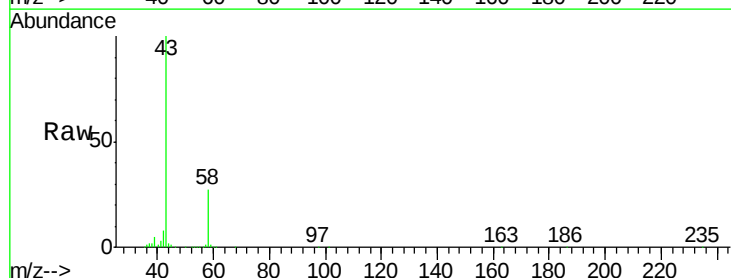
Acq: 2 Jun 2018 2:53

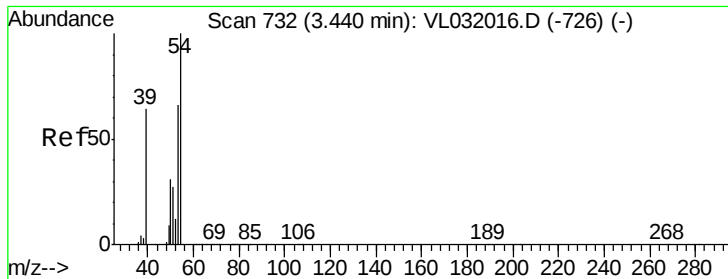
Tgt Ion: 43 Resp: 3791494

Ion Ratio Lower Upper

43 100

58 30.8 20.7 31.1

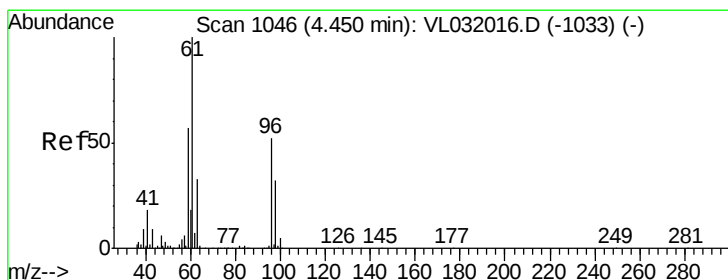
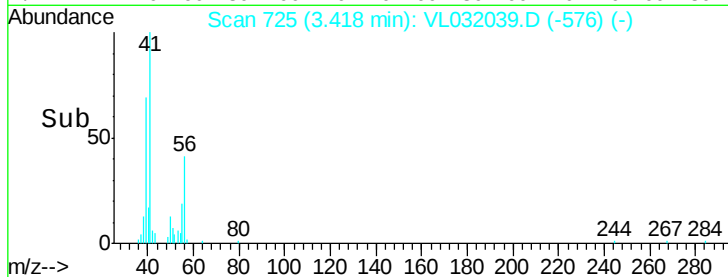
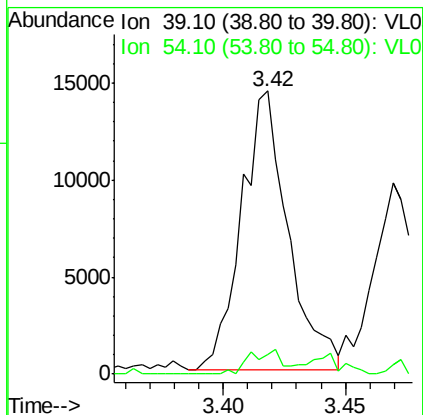
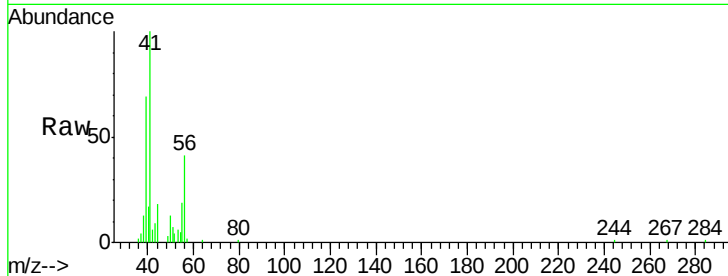




#16
 1,3-Butadiene
 Concen: 0.39 ppbv
 RT: 3.42 min Scan# 725
 Delta R.T. -0.02 min
 Lab File: VL032039.D
 Acq: 2 Jun 2018 2:53

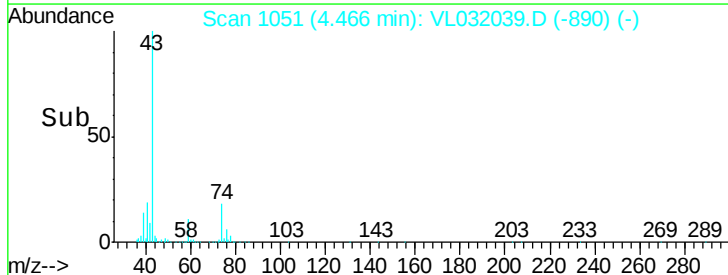
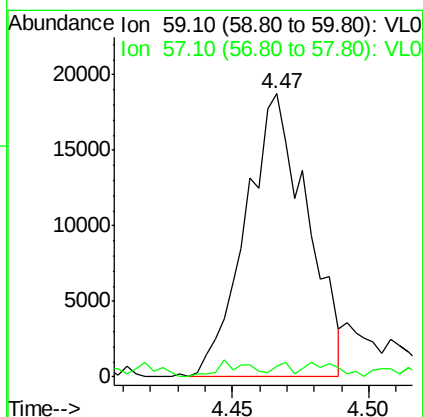
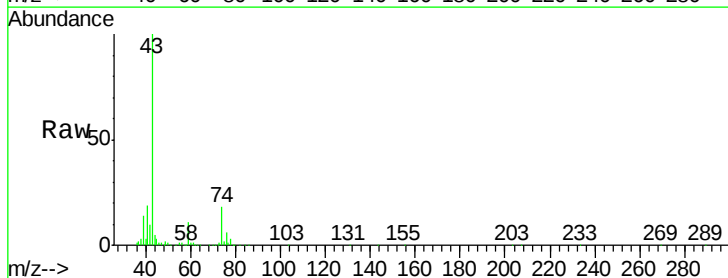
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

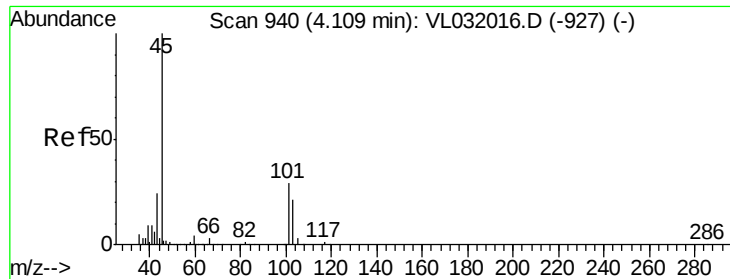
Tgt Ion: 39 Resp: 19037
 Ion Ratio Lower Upper
 39 100
 54 11.0 65.7 98.5#



#17
 tert-Butyl alcohol
 Concen: 0.46 ppbv
 RT: 4.47 min Scan# 1051
 Delta R.T. 0.02 min
 Lab File: VL032039.D
 Acq: 2 Jun 2018 2:53

Tgt Ion: 59 Resp: 29277
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 1.65 ppbv

RT: 4.13 min Scan# 945

Delta R.T. 0.02 min

Lab File: VL032039.D

Acq: 2 Jun 2018 2:53

Instrument :

MSVOA_L

ClientSampleId :

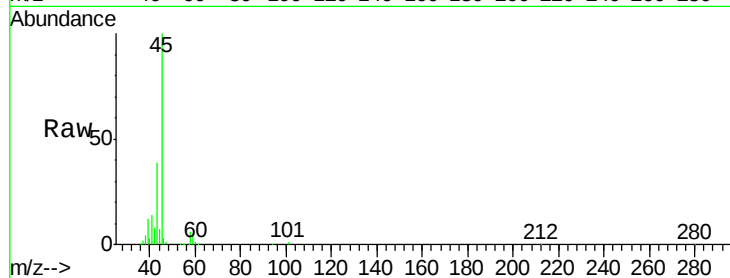
IA1

Tgt Ion: 45 Resp: 146055

Ion Ratio Lower Upper

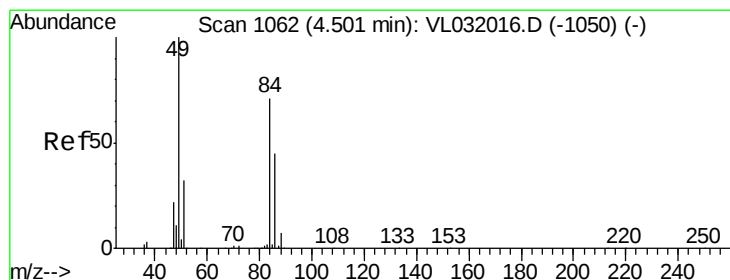
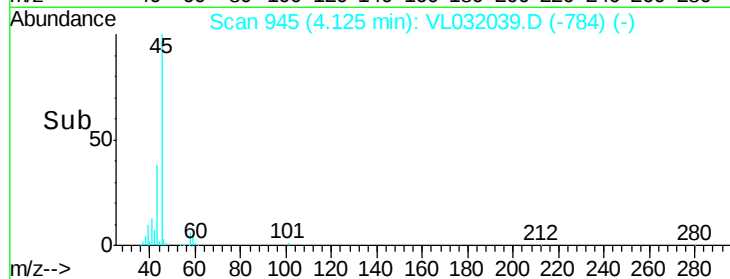
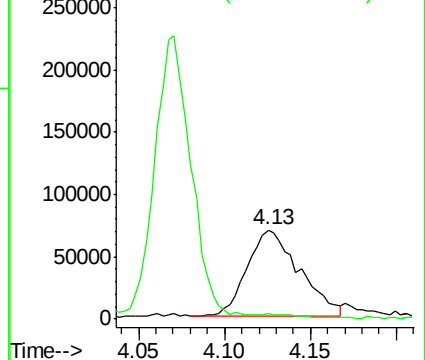
45 100

58 231.6 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.86 ppbv

RT: 4.50 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VL032039.D

Acq: 2 Jun 2018 2:53

Tgt Ion: 84 Resp: 113339

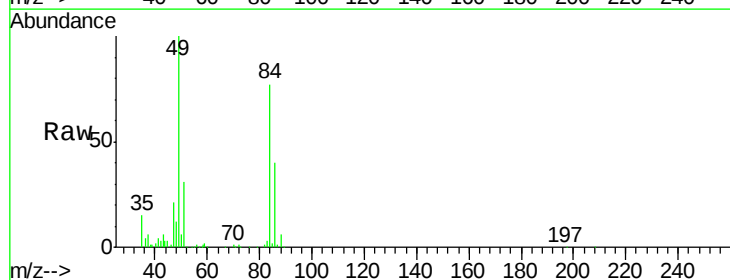
Ion Ratio Lower Upper

84 100

49 127.1 113.0 169.4

51 37.9 36.4 54.6

86 50.9 51.0 76.6#

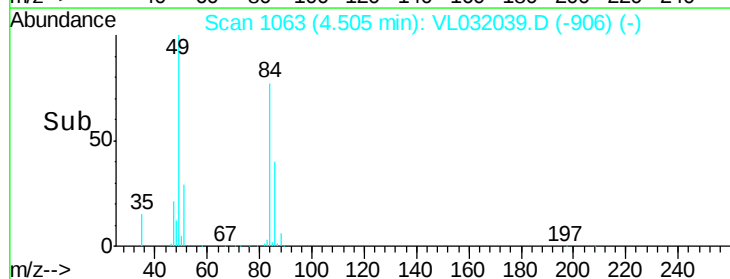
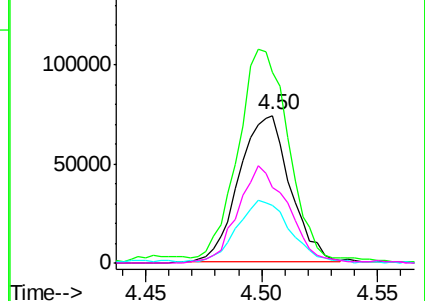


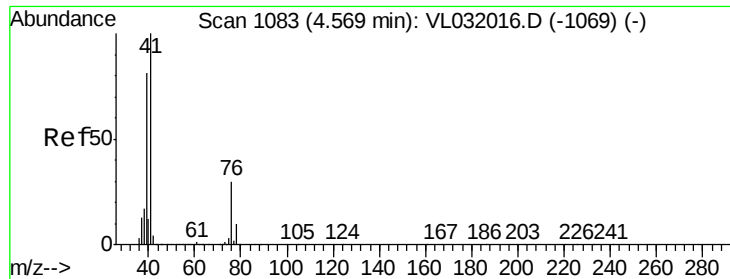
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

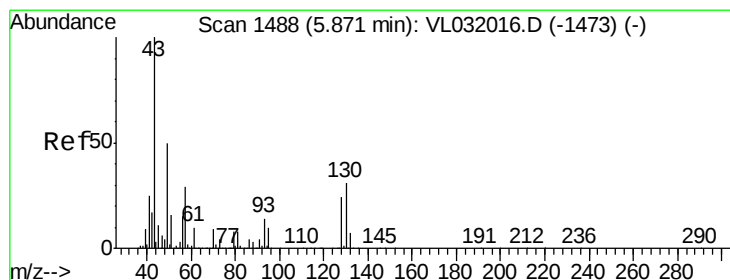
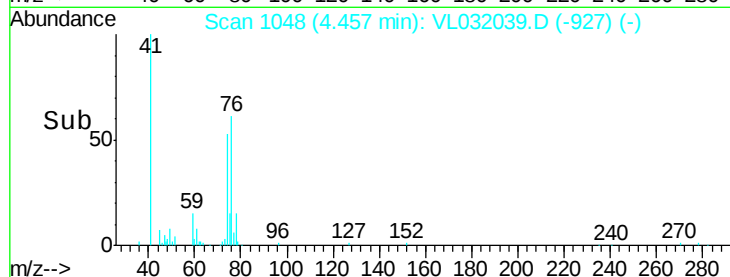
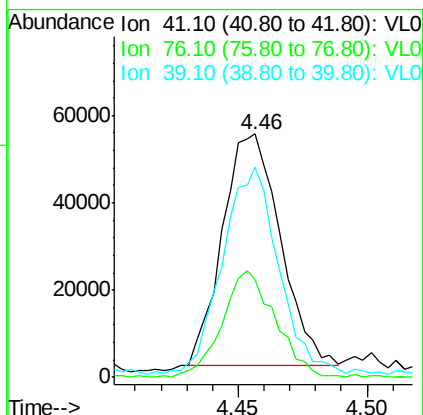
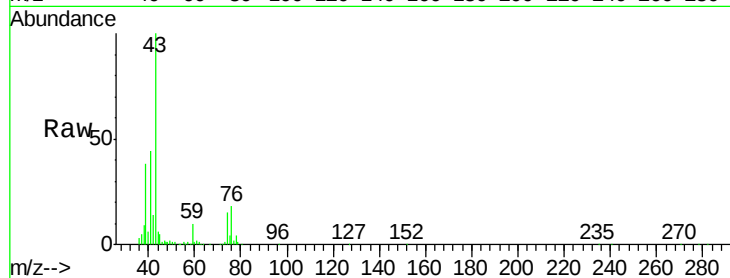




#21
 Allyl Chloride
 Concen: 0.88 ppbv
 RT: 4.46 min Scan# 1048
 Delta R.T. -0.11 min
 Lab File: VL032039.D
 Acq: 2 Jun 2018 2:53

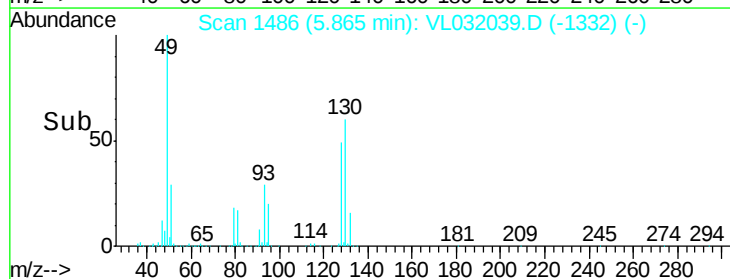
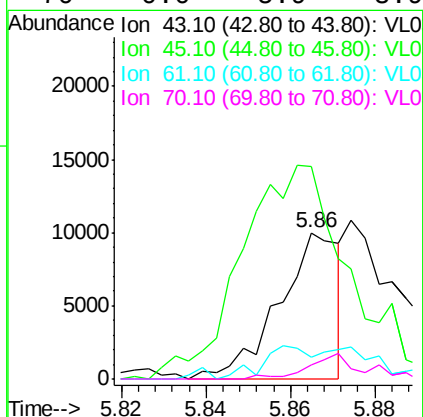
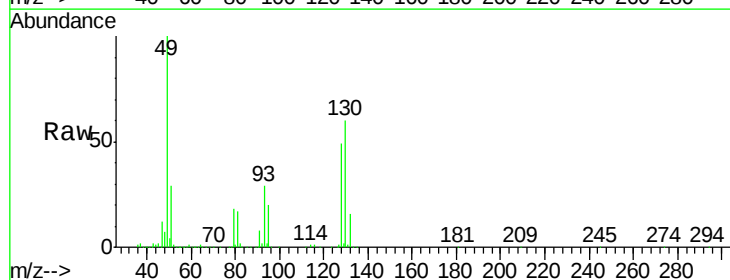
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

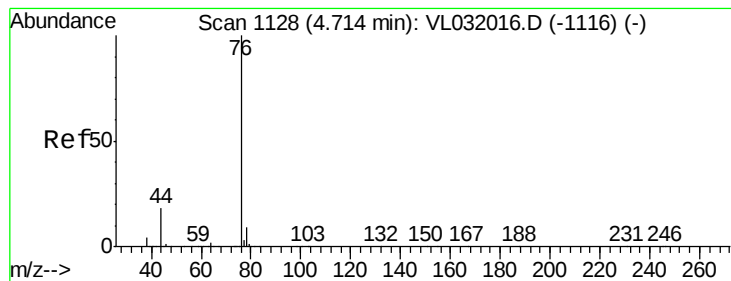
Tgt Ion: 41 Resp: 83065
 Ion Ratio Lower Upper
 41 100
 76 42.6 23.9 35.9#
 39 88.2 65.9 98.9



#25
 Ethyl Acetate
 Concen: 0.04 ppbv
 RT: 5.86 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: VL032039.D
 Acq: 2 Jun 2018 2:53

Tgt Ion: 43 Resp: 9953
 Ion Ratio Lower Upper
 43 100
 45 268.1 7.8 11.6#
 61 40.7 7.4 11.2#
 70 0.0 5.9 8.9#





#27

Carbon Disulfide

Concen: 0.04 ppbv

RT: 4.71 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VL032039.D

Acq: 2 Jun 2018 2:53

Instrument :

MSVOA_L

ClientSampled :

IA1

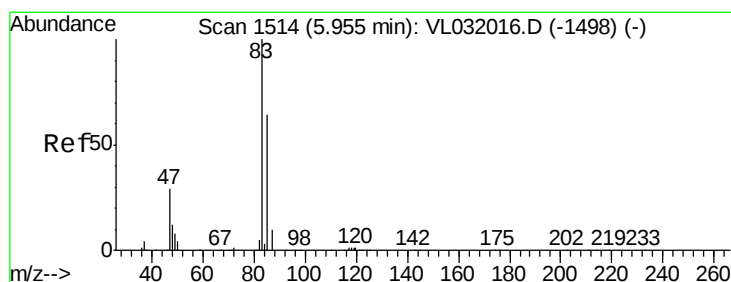
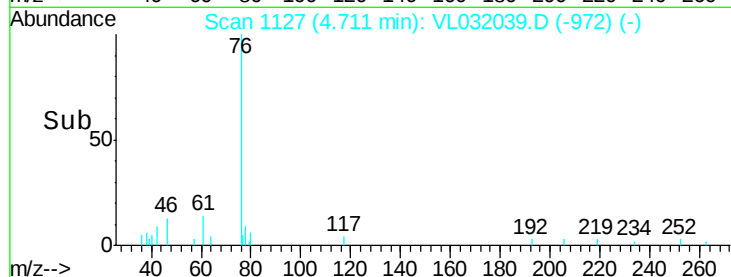
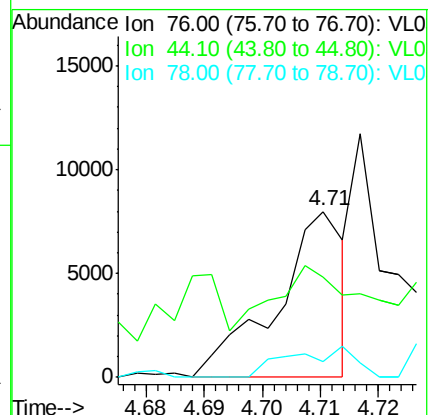
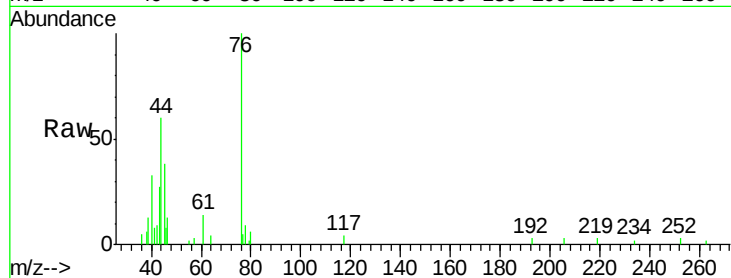
Tgt Ion: 76 Resp: 6456

Ion Ratio Lower Upper

76 100

44 88.4 14.9 22.3#

78 0.0 7.6 11.4#



#29

Chloroform

Concen: 0.08 ppbv

RT: 5.95 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VL032039.D

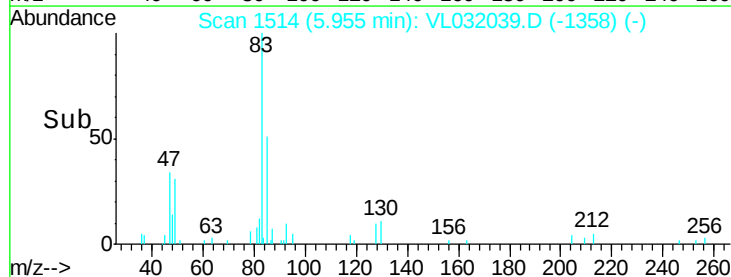
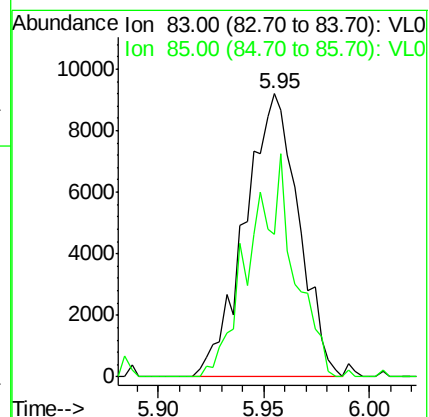
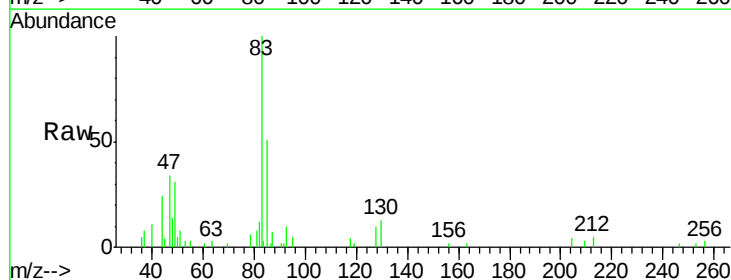
Acq: 2 Jun 2018 2:53

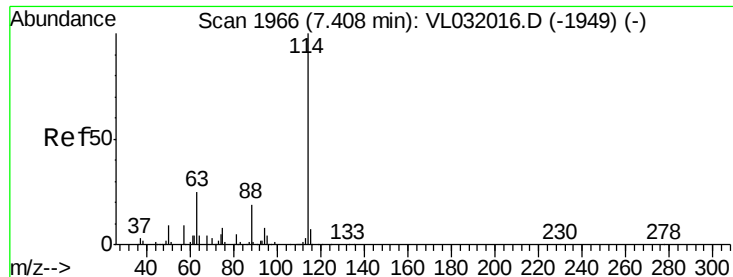
Tgt Ion: 83 Resp: 16303

Ion Ratio Lower Upper

83 100

85 50.6 50.9 76.3#

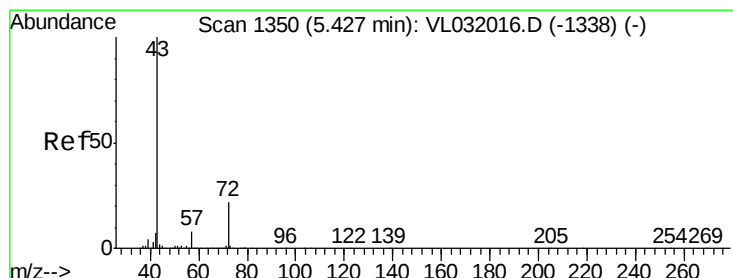
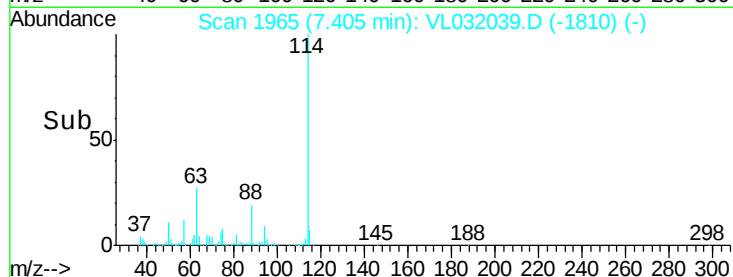
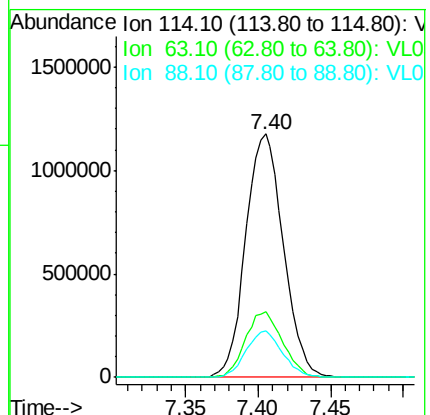
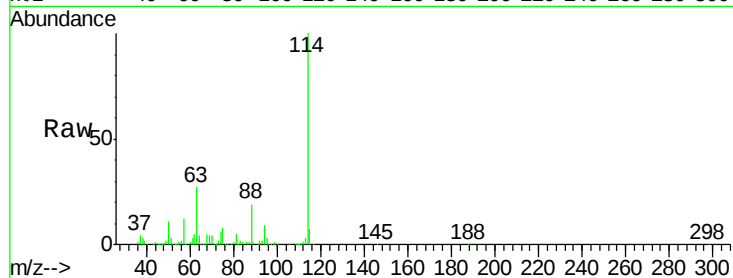




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.40 min Scan# 1965
 Delta R.T. -0.00 min
 Lab File: VL032039.D
 Acq: 2 Jun 2018 2:53

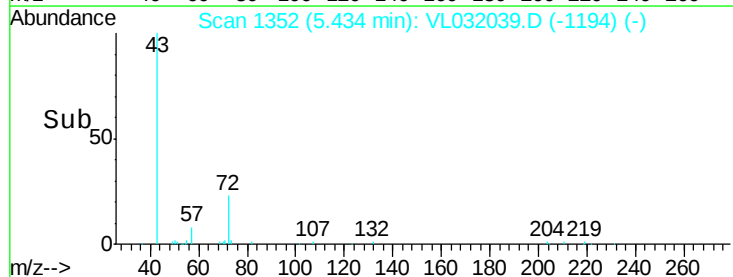
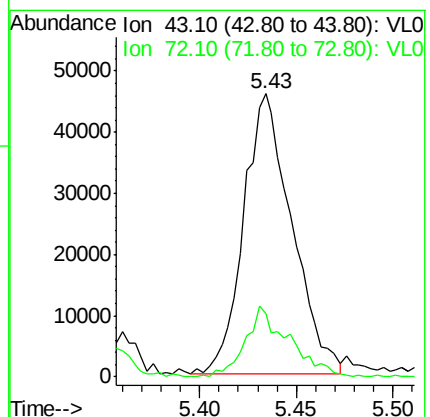
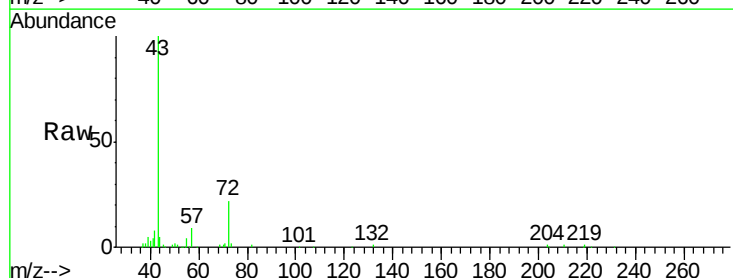
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

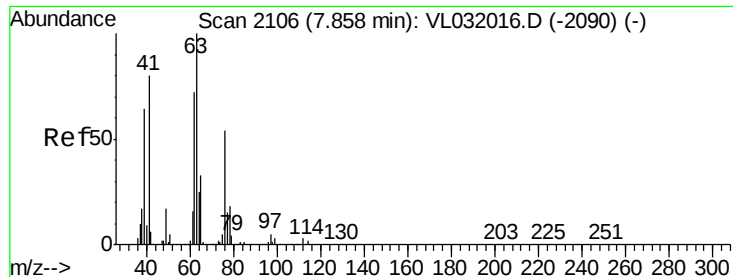
Tgt Ion:114 Resp: 2125847
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.1 31.7
 88 18.4 14.8 22.2



#34
 2-Butanone
 Concen: 0.47 ppbv
 RT: 5.43 min Scan# 1352
 Delta R.T. 0.01 min
 Lab File: VL032039.D
 Acq: 2 Jun 2018 2:53

Tgt Ion: 43 Resp: 79269
 Ion Ratio Lower Upper
 43 100
 72 22.9 18.6 27.8





#39

1,2-Dichloropropane

Concen: 8.16 ppbv

RT: 7.40 min Scan# 1965

Delta R.T. -0.45 min

Lab File: VL032039.D

Acq: 2 Jun 2018 2:53

Instrument :

MSVOA_L

ClientSampleId :

IA1

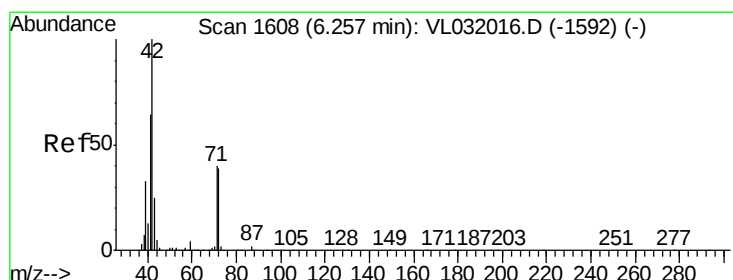
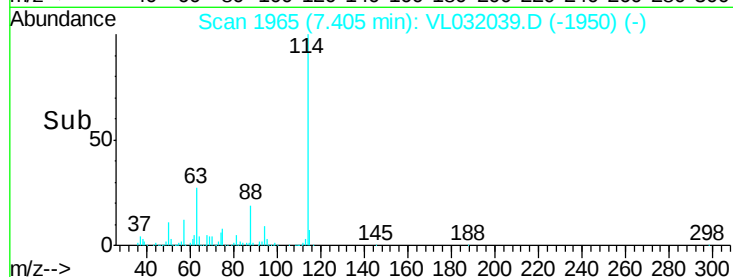
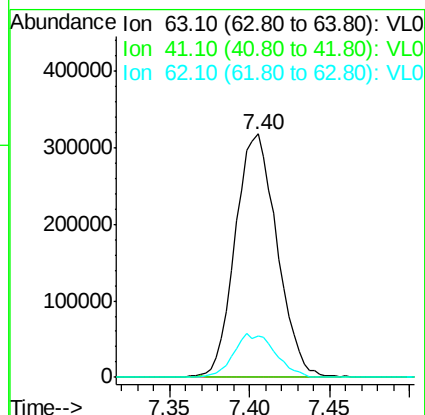
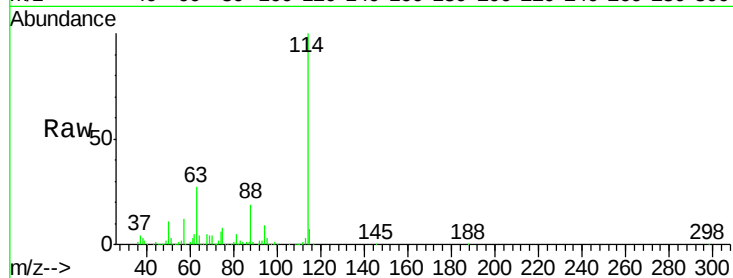
Tgt Ion: 63 Resp: 561771

Ion Ratio Lower Upper

63 100

41 0.0 64.0 96.0#

62 16.8 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.97 ppbv

RT: 6.27 min Scan# 1611

Delta R.T. 0.01 min

Lab File: VL032039.D

Acq: 2 Jun 2018 2:53

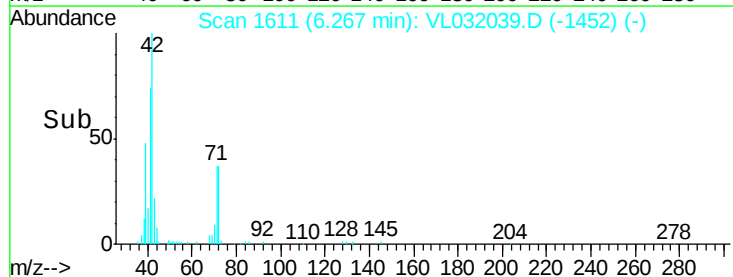
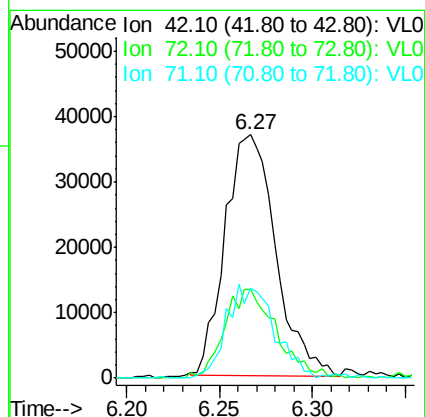
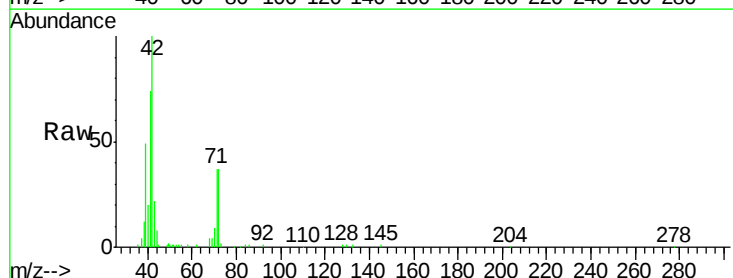
Tgt Ion: 42 Resp: 69948

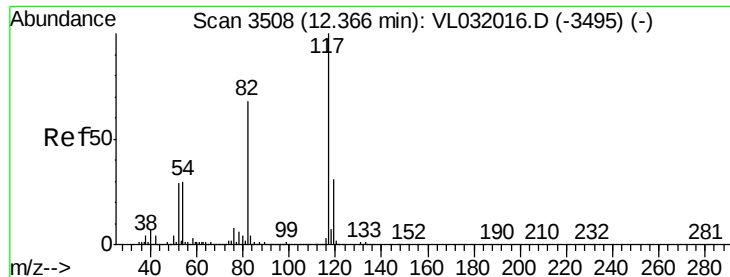
Ion Ratio Lower Upper

42 100

72 37.7 32.3 48.5

71 37.1 32.3 48.5

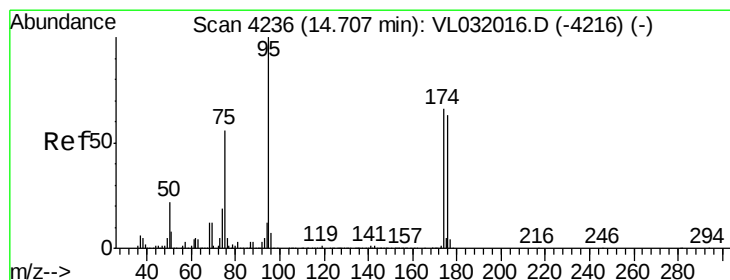
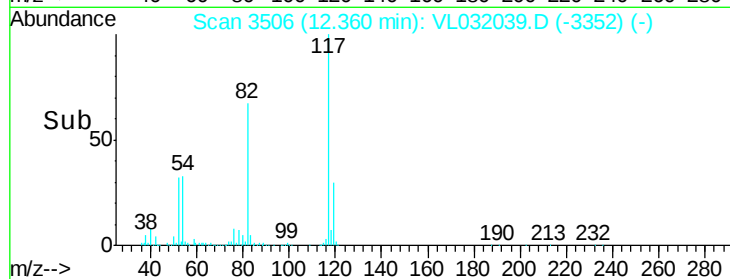
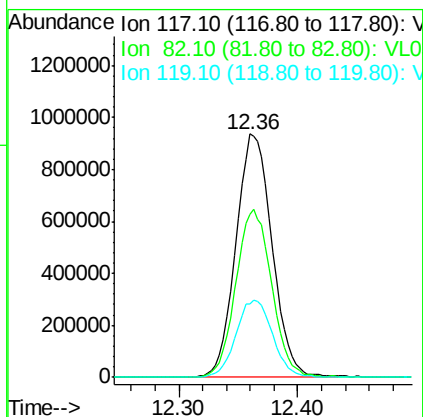
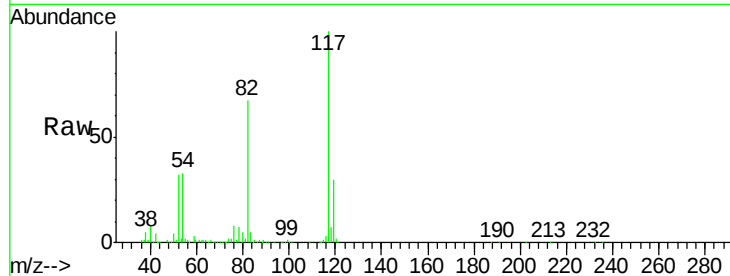




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.36 min Scan# 3506
Delta R.T. -0.01 min
Lab File: VL032039.D
Acq: 2 Jun 2018 2:53

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 117 Resp: 1972620
Ion Ratio Lower Upper
117 100
82 68.6 52.7 79.1
119 32.0 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.86 ppbv
RT: 14.70 min Scan# 4234
Delta R.T. -0.01 min
Lab File: VL032039.D
Acq: 2 Jun 2018 2:53

Tgt Ion: 95 Resp: 1502777
Ion Ratio Lower Upper
95 100
174 68.2 53.2 79.8
175 4.9 3.7 5.5

