

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032596.D
 Acq On : 4 Oct 2018 11:01
 Operator : SY/AP
 Sample : J5094-08DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FSS-1DL

Quant Time: Oct 04 11:31:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1204409	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2732432	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2996610	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2142680	9.48	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.80%

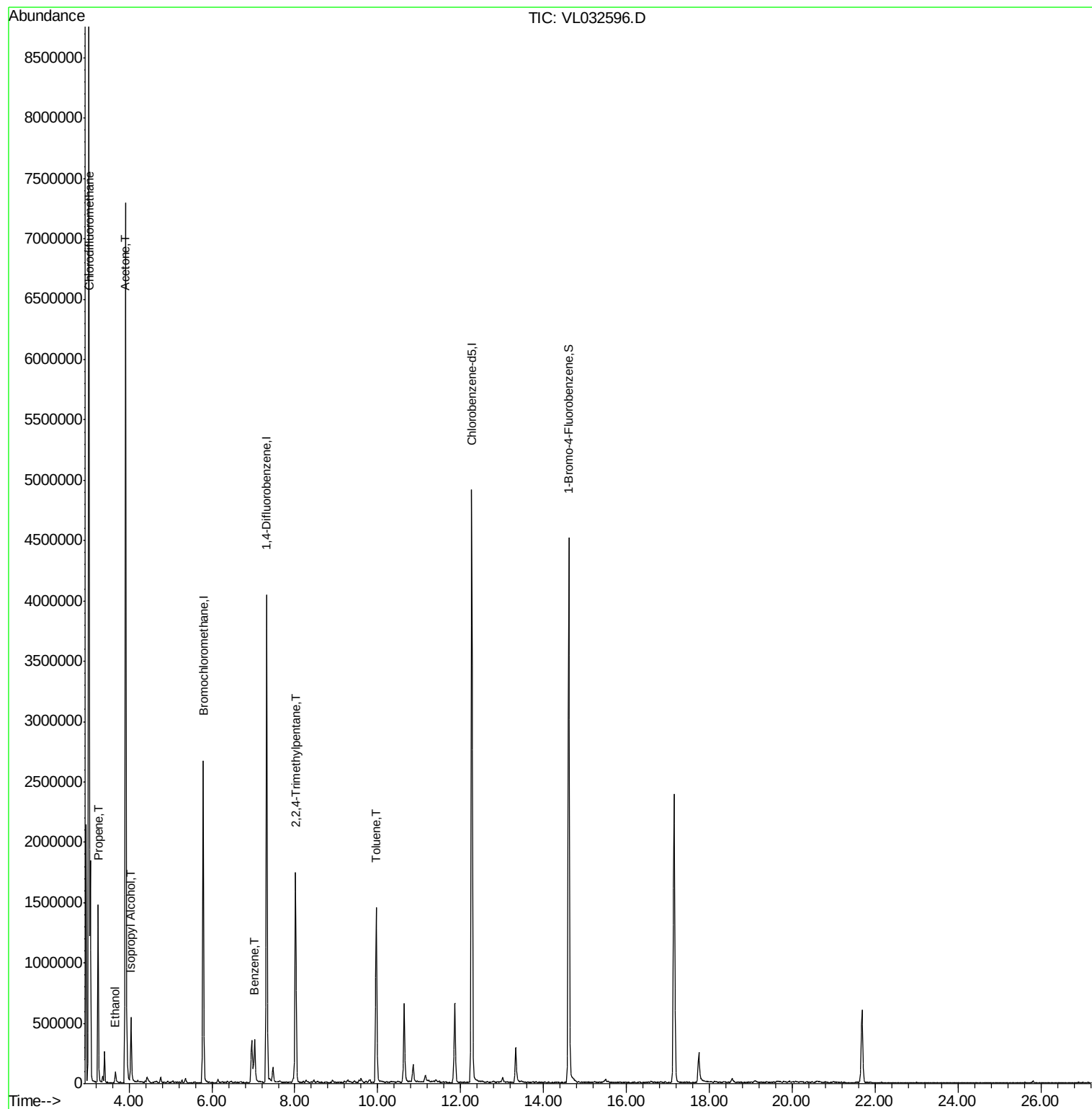
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.03	51	9790550	97.751	ppbv #	89
9) Propene	3.25	41	318686	7.333	ppbv	88
13) Ethanol	3.67	45	86334	6.609	ppbv	93
15) Acetone	3.91	43	7755177	73.356	ppbv	97
19) Isopropyl Alcohol	4.04	45	500103	6.791	ppbv #	93
36) Benzene	7.03	78	245844	1.113	ppbv	97
44) 2,2,4-Trimethylpentane	8.02	57	1528203	3.541	ppbv	95
53) Toluene	9.97	91	67203	0.250	ppbv	95

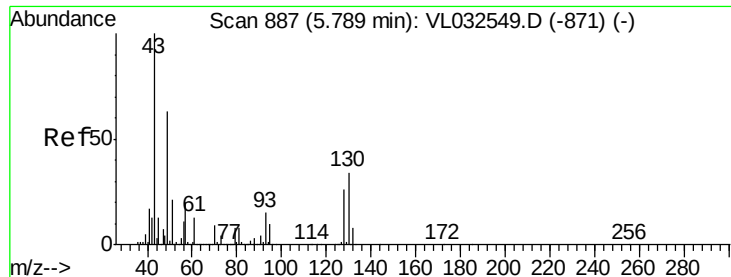
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

FSS-1DL

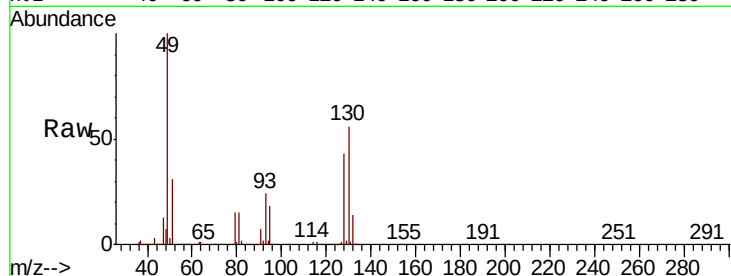
Tot Ion: 49 Resp: 1204409

Ion Ratio Lower Upper

49 100

128 46.7 20.7 62.1

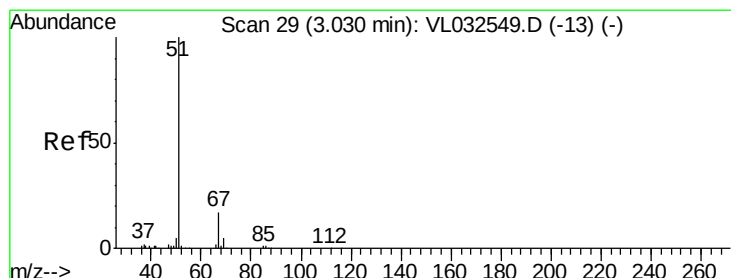
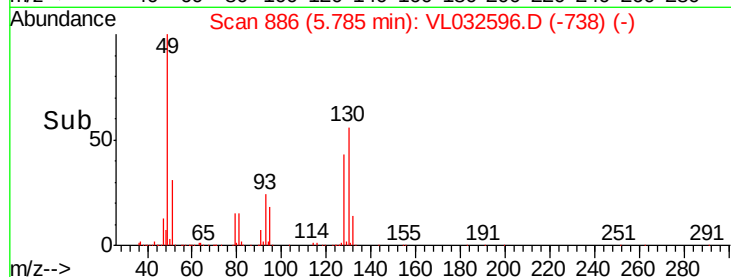
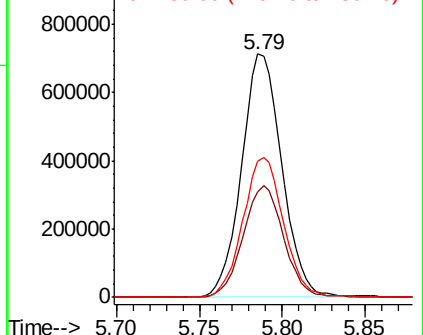
130 58.7 26.6 79.7



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



#3

Chlorodifluoromethane

Concen: 97.751 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032596.D

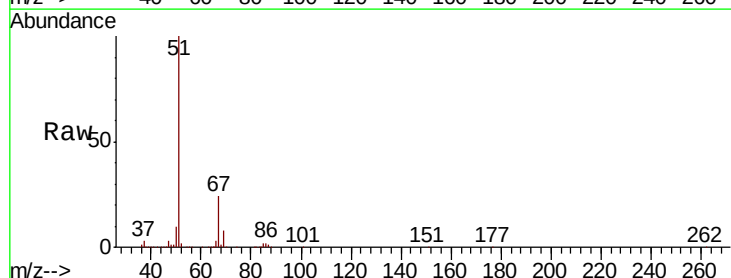
Acq: 4 Oct 2018 11:01

Tgt Ion: 51 Resp: 9790550

Ion Ratio Lower Upper

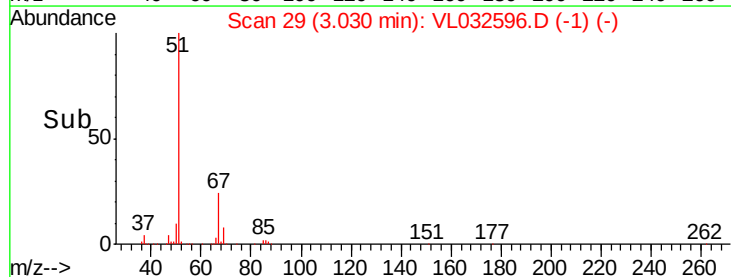
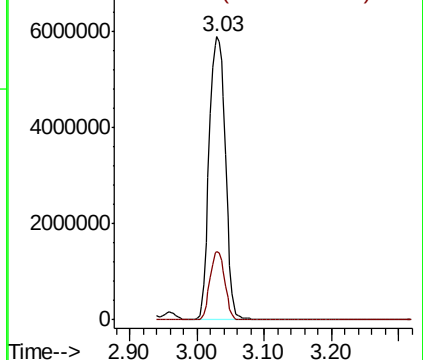
51 100

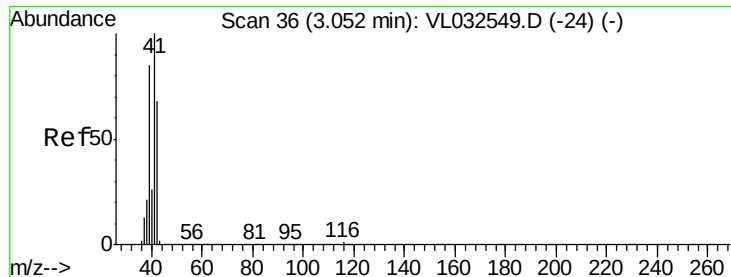
67 22.3 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 7.333 ppbv

RT: 3.25 min Scan# 99

Delta R.T. 0.19 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

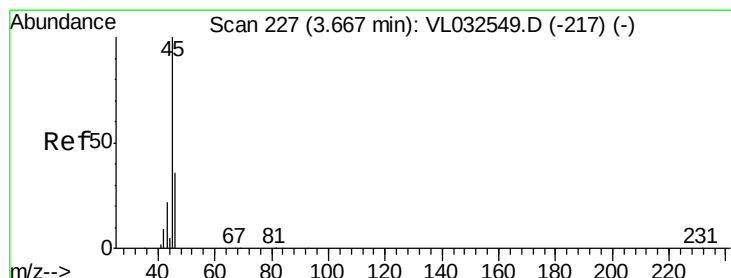
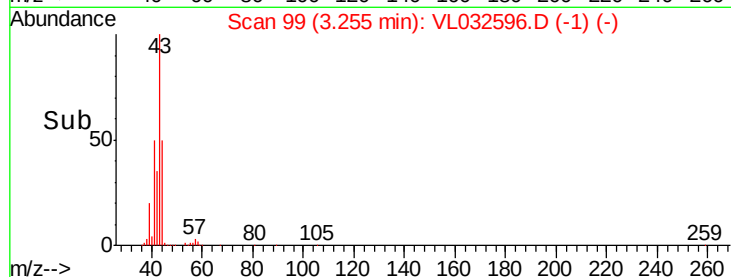
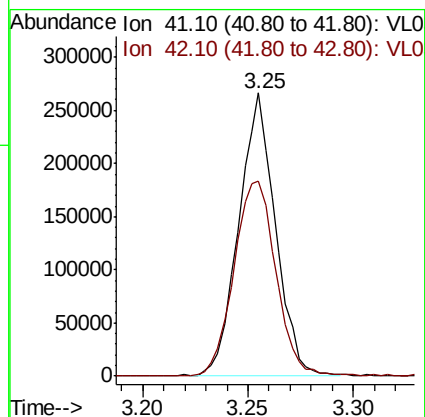
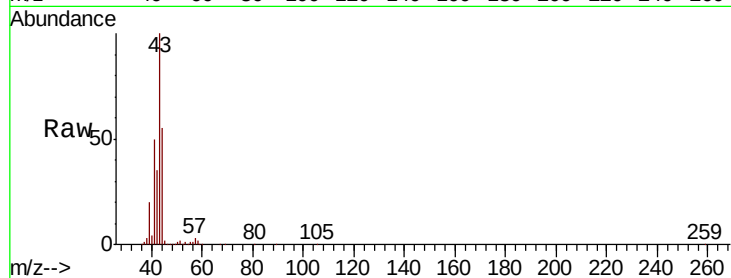
FSS-1DL

Tot Ion: 41 Resp: 318686

Ion Ratio Lower Upper

41 100

42 80.6 56.6 84.8



#13

Ethanol

Concen: 6.609 ppbv

RT: 3.67 min Scan# 228

Delta R.T. -0.01 min

Lab File: VL032596.D

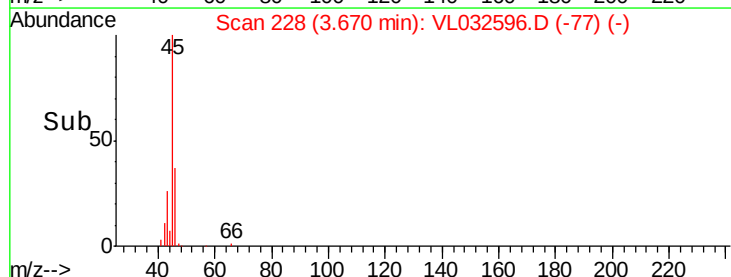
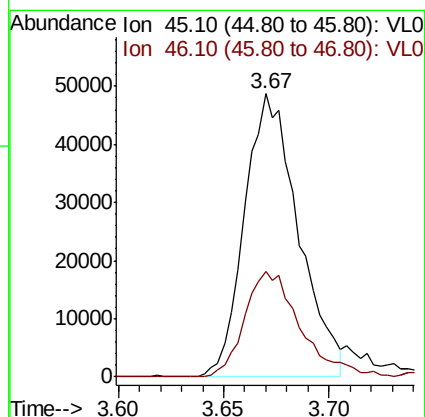
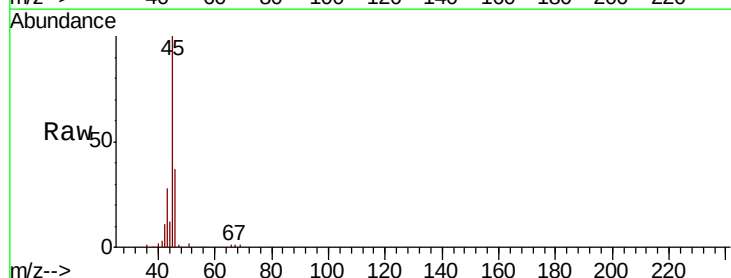
Acq: 4 Oct 2018 11:01

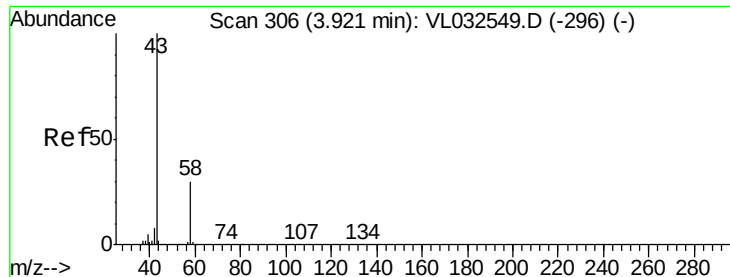
Tgt Ion: 45 Resp: 86334

Ion Ratio Lower Upper

45 100

46 39.4 14.2 56.8





#15

Acetone

Concen: 73.356 ppbv

RT: 3.91 min Scan# 304

Delta R.T. -0.02 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

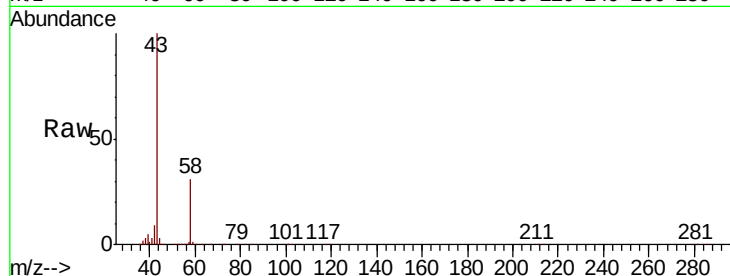
FSS-1DL

Tot Ion: 43 Resp: 7755177

Ion Ratio Lower Upper

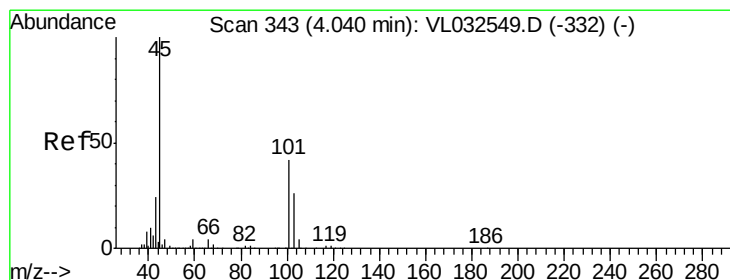
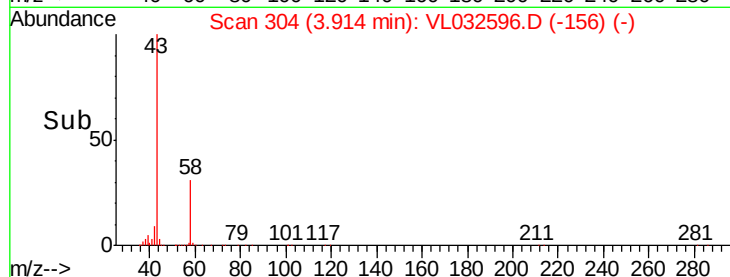
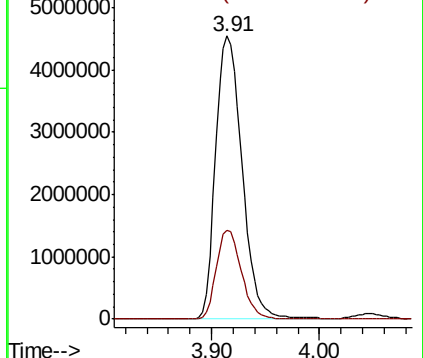
43 100

58 30.0 22.6 33.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 6.791 ppbv

RT: 4.04 min Scan# 344

Delta R.T. -0.02 min

Lab File: VL032596.D

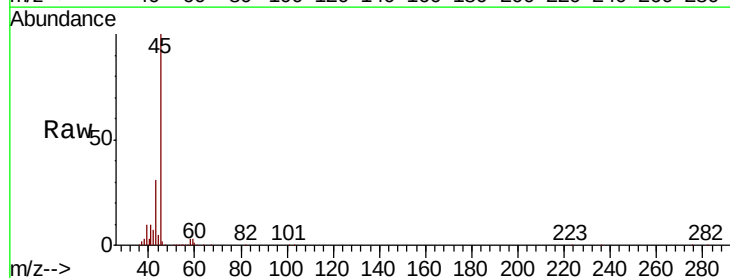
Acq: 4 Oct 2018 11:01

Tgt Ion: 45 Resp: 500103

Ion Ratio Lower Upper

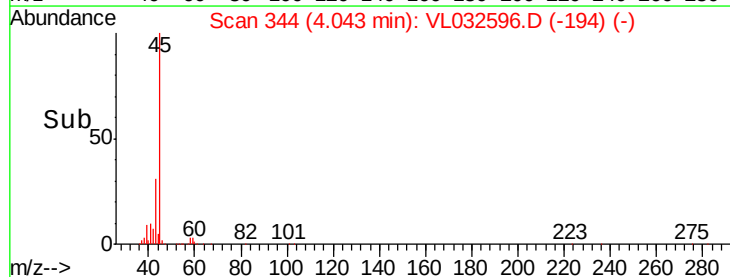
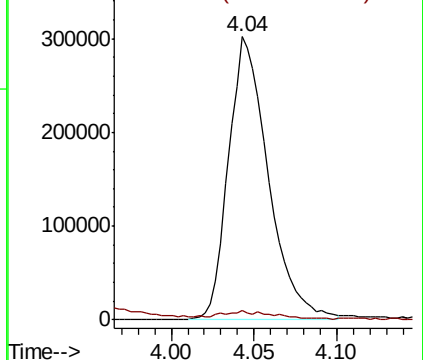
45 100

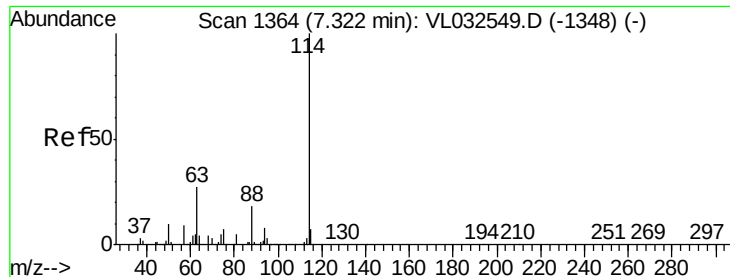
58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.03 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

FSS-1DL

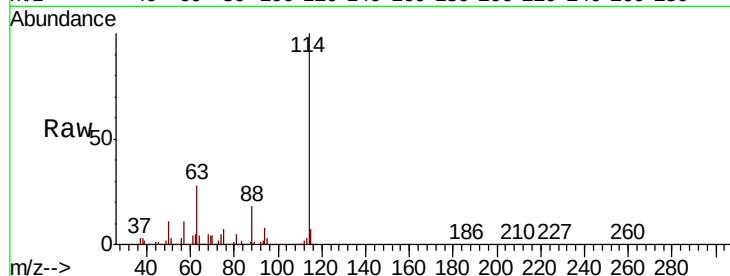
Tot Ion:114 Resp: 2732432

Ion Ratio Lower Upper

114 100

63 27.3 22.2 33.4

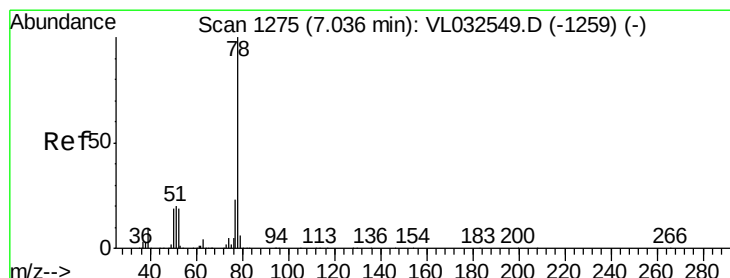
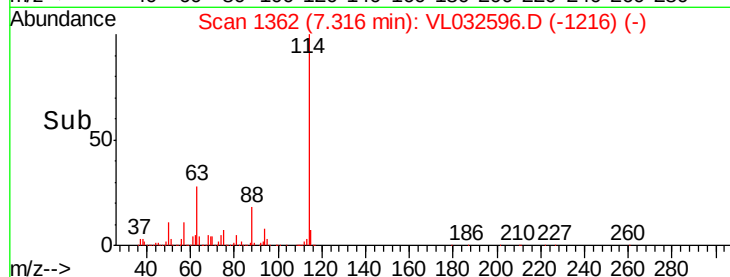
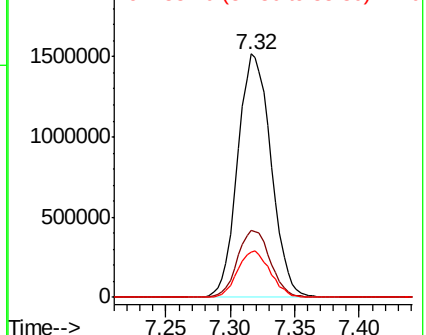
88 18.7 15.0 22.4



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



#36

Benzene

Concen: 1.113 ppbv

RT: 7.03 min Scan# 1272

Delta R.T. -0.03 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

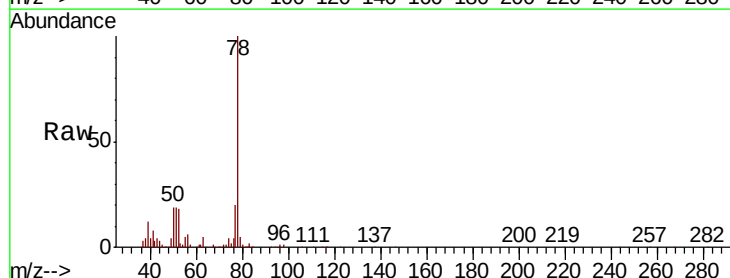
Tgt Ion: 78 Resp: 245844

Ion Ratio Lower Upper

78 100

77 20.5 18.4 27.6

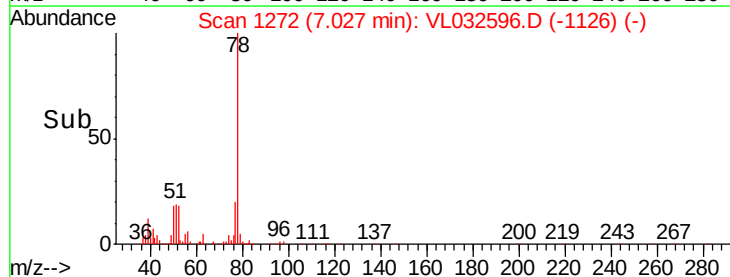
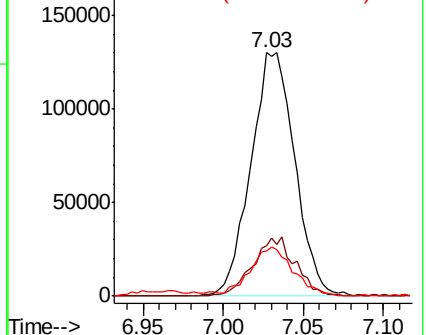
50 18.4 14.4 21.6

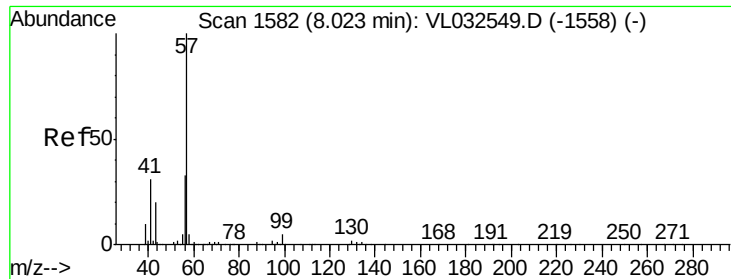


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



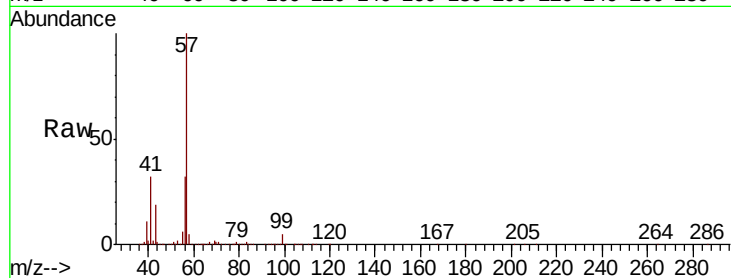


#44
 2,2,4-Trimethylpentane
 Concen: 3.541 ppbv
 RT: 8.02 min Scan# 1580
 Delta R.T. -0.03 min
 Lab File: VL032596.D
 Acq: 4 Oct 2018 11:01

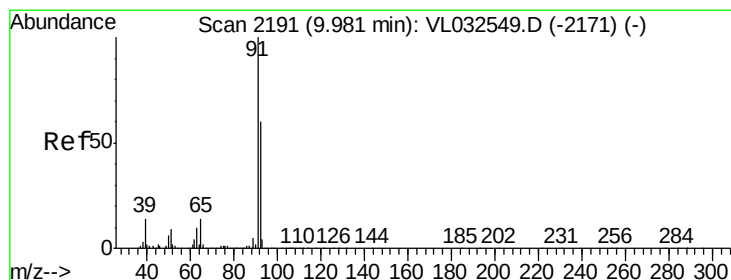
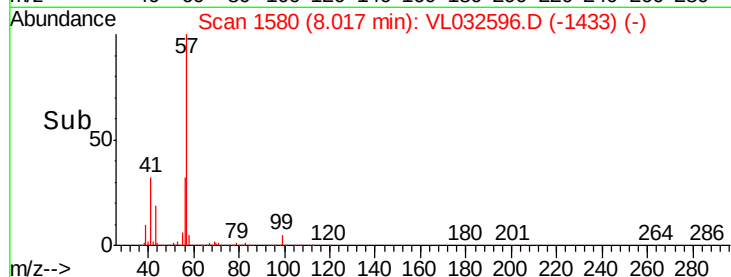
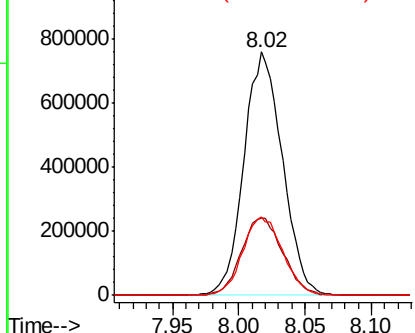
Instrument :
 MSVOA_L
 ClientSampleId :
 FSS-1DL

Tot Ion: 57 Resp: 1528203

Ion	Ratio	Lower	Upper
57	100		
41	34.6	24.4	36.6
56	33.8	25.7	38.5



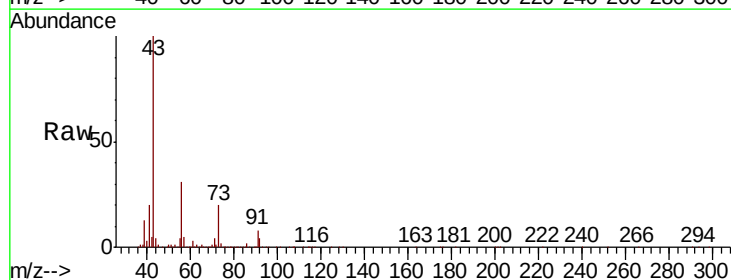
Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0



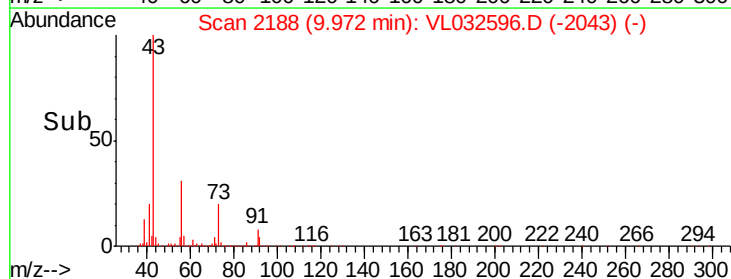
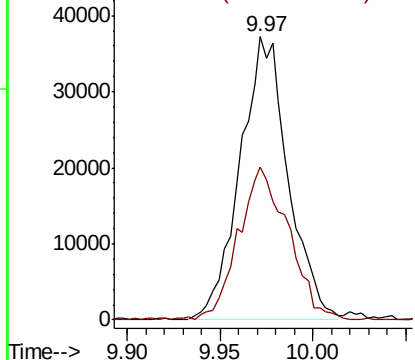
#53
 Toluene
 Concen: 0.250 ppbv
 RT: 9.97 min Scan# 2188
 Delta R.T. -0.03 min
 Lab File: VL032596.D
 Acq: 4 Oct 2018 11:01

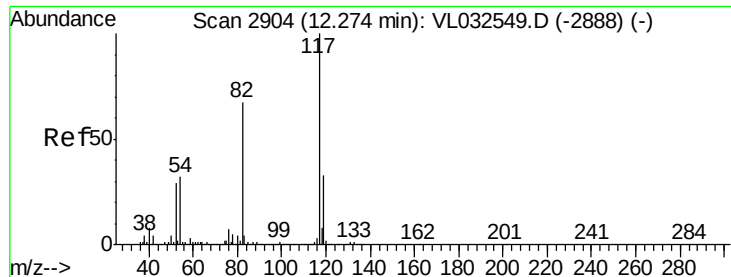
Tgt Ion: 91 Resp: 67203

Ion	Ratio	Lower	Upper
91	100		
92	56.3	48.1	72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.03 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

Instrument :

MSVOA_L

ClientSampleId :

FSS-1DL

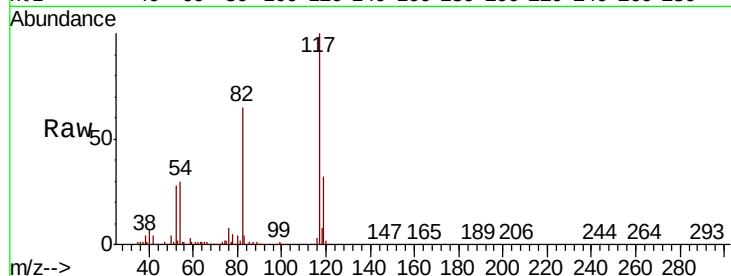
Tot Ion:117 Resp: 2996610

Ion Ratio Lower Upper

117 100

82 66.5 53.0 79.6

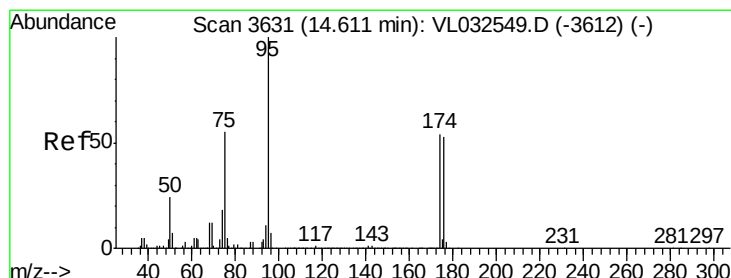
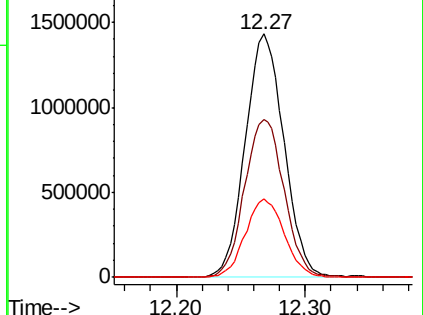
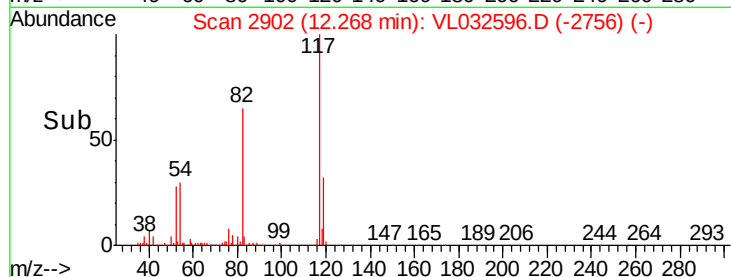
119 32.7 45.9 68.9#



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: 9.482 ppbv

RT: 14.61 min Scan# 3629

Delta R.T. -0.03 min

Lab File: VL032596.D

Acq: 4 Oct 2018 11:01

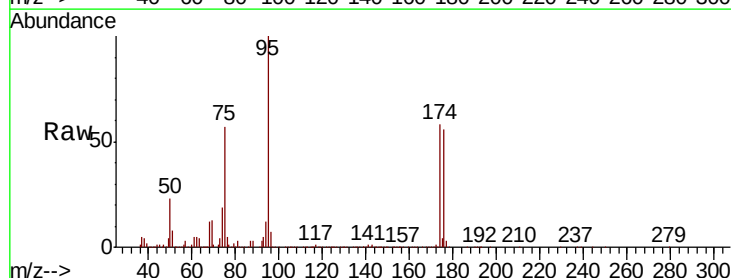
Tgt Ion: 95 Resp: 2142680

Ion Ratio Lower Upper

95 100

174 59.3 46.3 69.5

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

