

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121318\
 Data File : VL032987.D
 Acq On : 13 Dec 2018 17:41
 Operator : SY/AP
 Sample : J6264-12DL2 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A55G4DL

Quant Time: Dec 14 01:09:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1197864	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3164325	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3075189	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2367838	10.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

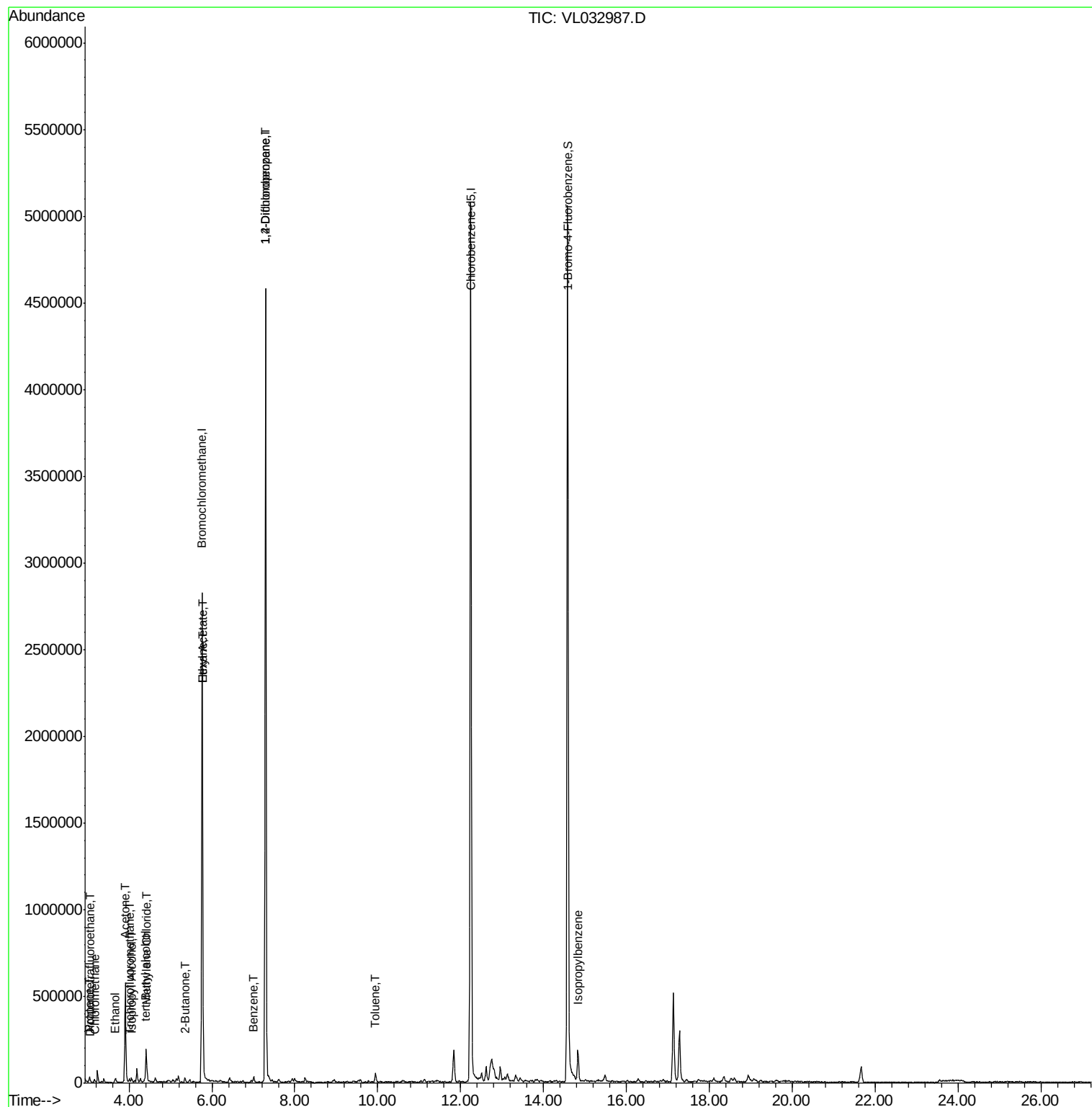
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.17	50	8684	0.164	ppbv	95
8) Dichlorotetrafluoroethane	3.08	85	4332	0.033	ppbv #	16
9) Propene	3.05	41	4480	0.125	ppbv	93
11) Trichlorofluoromethane	4.01	101	5107	0.034	ppbv	97
13) Ethanol	3.67	45	14682	1.189	ppbv #	59
15) Acetone	3.91	43	588217	5.721	ppbv	100
17) tert-Butyl alcohol	4.39	59	1373	0.052	ppbv #	5
19) Isopropyl Alcohol	4.06	45	15958	0.247	ppbv #	95
20) Methylene Chloride	4.41	84	57612	1.146	ppbv	97
25) Ethyl Acetate	5.78	43	21962	0.090	ppbv #	79
26) Hexane	5.78	57	41619	0.371	ppbv #	41
34) 2-Butanone	5.35	43	19684	0.143	ppbv #	52
36) Benzene	7.00	78	17989	0.077	ppbv #	85
39) 1,2-Dichloropropane	7.29	63	797089	9.030	ppbv #	21
53) Toluene	9.95	91	21994	0.089	ppbv #	63
62) Isopropylbenzene	14.83	105	137635	0.328	ppbv	100

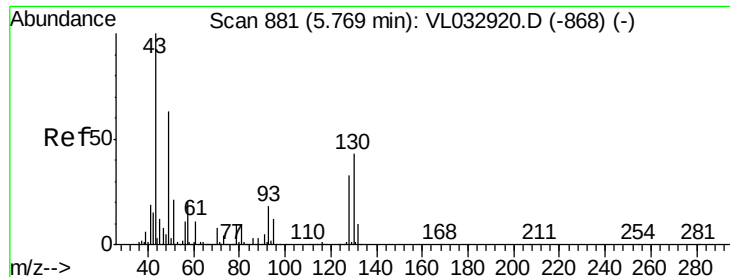
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

A55G4DL

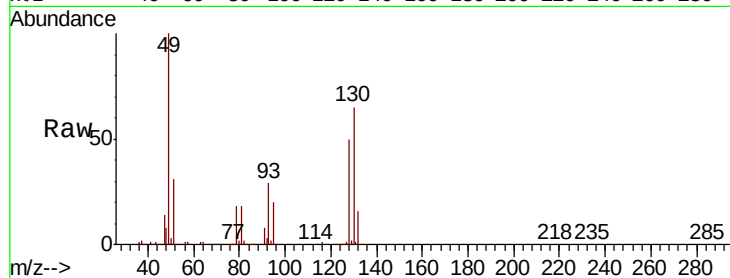
Tgt Ion: 49 Resp: 1197864

Ion Ratio Lower Upper

49 100

128 52.6 26.3 78.8

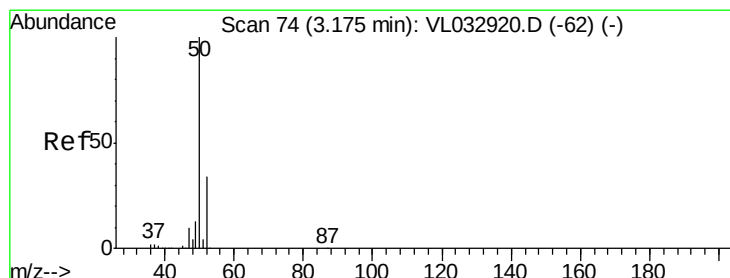
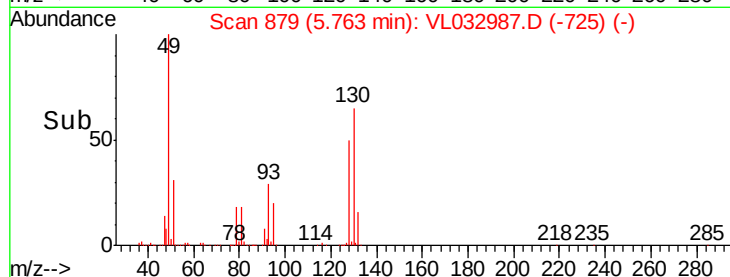
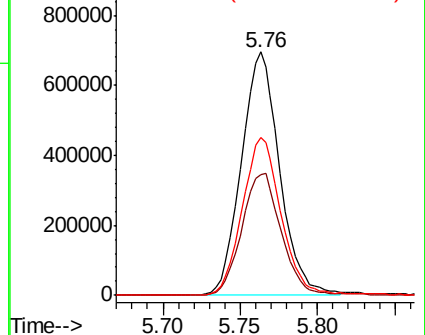
130 66.4 33.9 101.7



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



#4

Chloromethane

Concen: 0.164 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032987.D

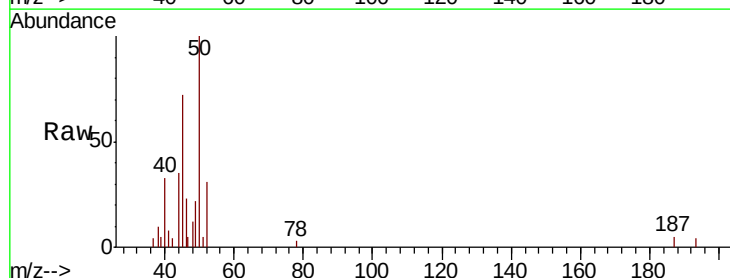
Acq: 13 Dec 2018 17:41

Tgt Ion: 50 Resp: 8684

Ion Ratio Lower Upper

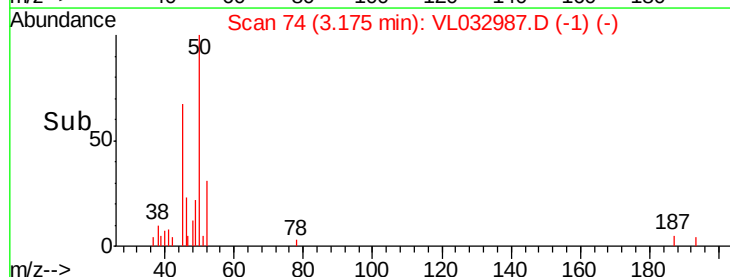
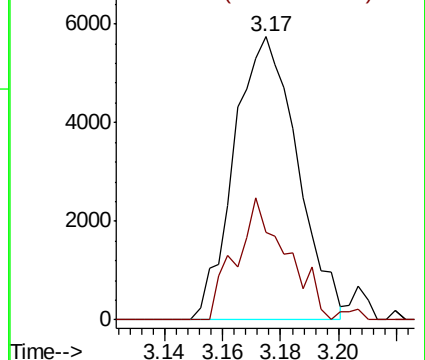
50 100

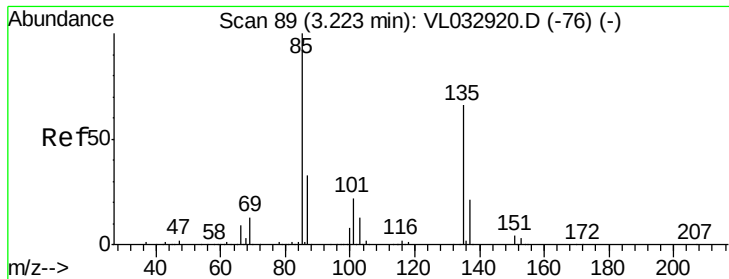
52 31.1 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.033 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.14 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

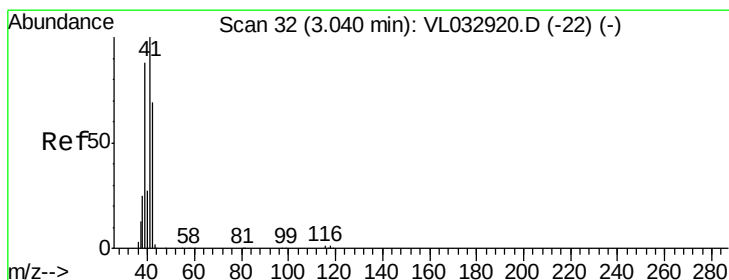
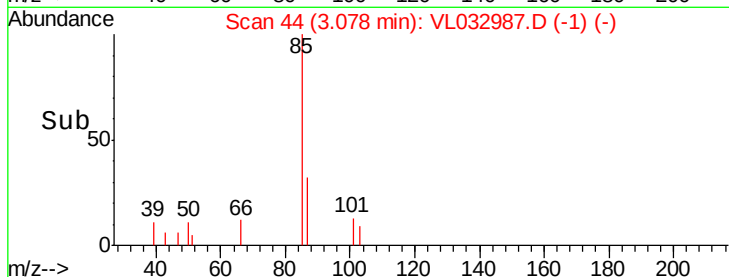
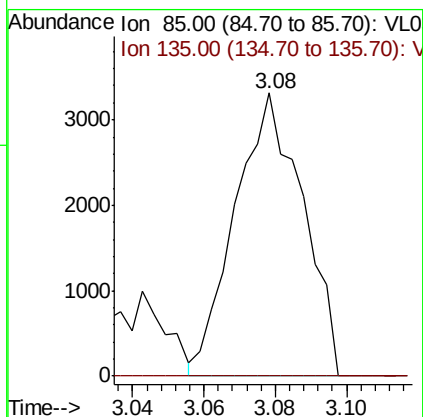
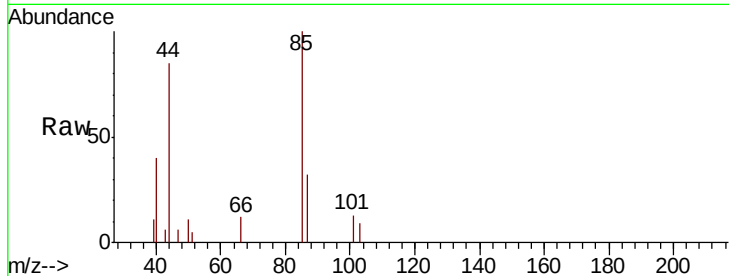
A55G4DL

Tgt Ion: 85 Resp: 4332

Ion Ratio Lower Upper

85 100

135 0.0 54.5 81.7#



#9

Propene

Concen: 0.125 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032987.D

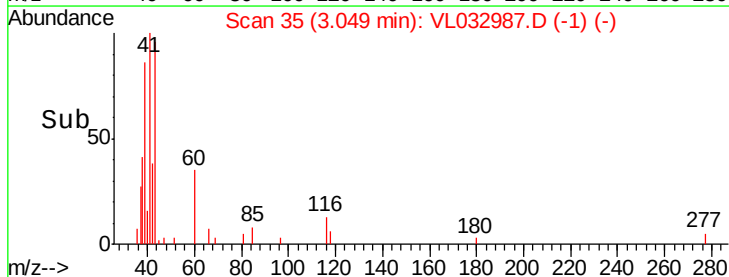
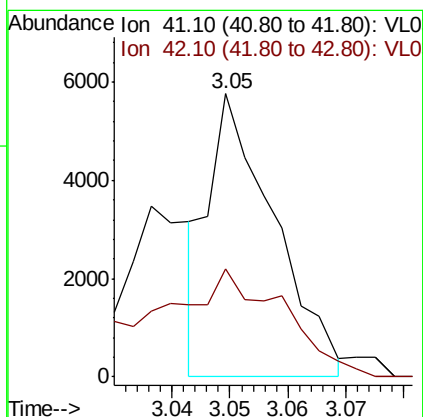
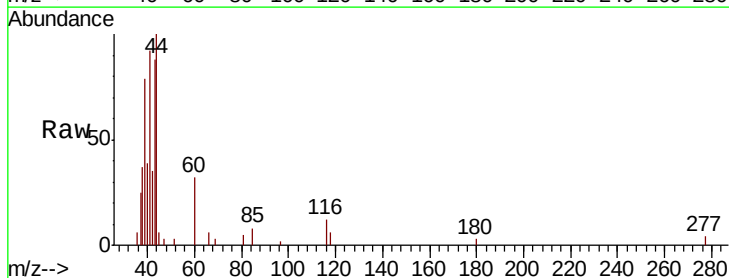
Acq: 13 Dec 2018 17:41

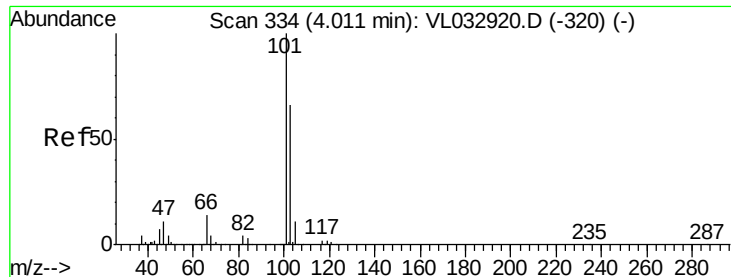
Tgt Ion: 41 Resp: 4480

Ion Ratio Lower Upper

41 100

42 76.0 56.2 84.2





#11

Trichlorofluoromethane

Concen: 0.034 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

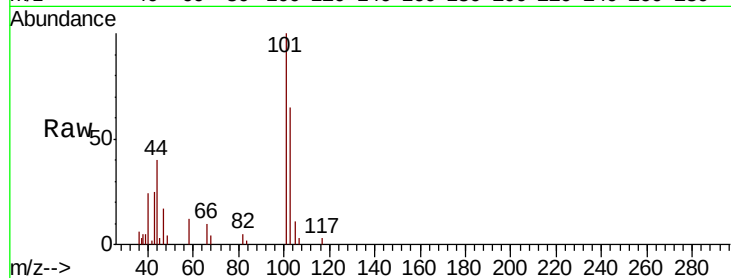
A55G4DL

Tgt Ion:101 Resp: 5107

Ion Ratio Lower Upper

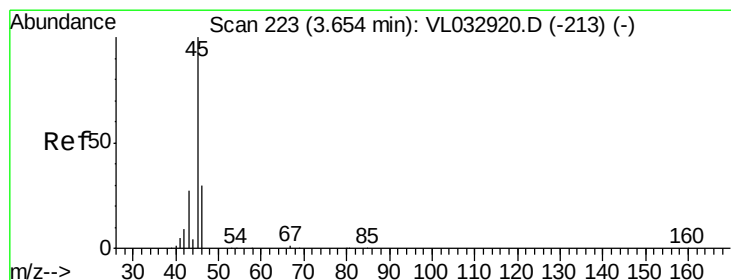
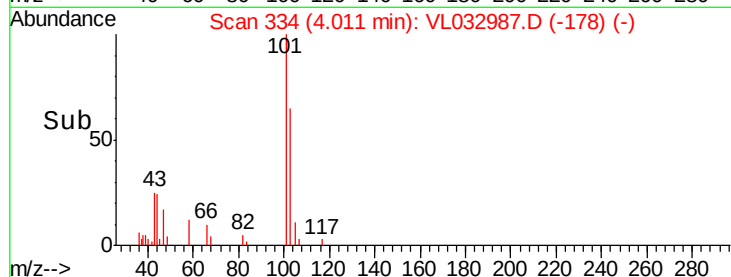
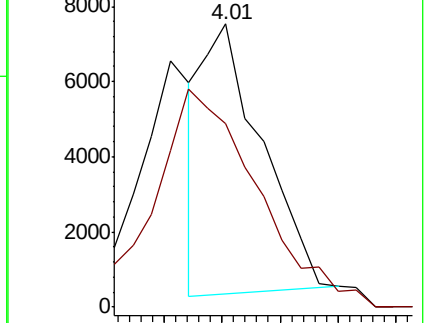
101 100

103 63.9 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 1.189 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.01 min

Lab File: VL032987.D

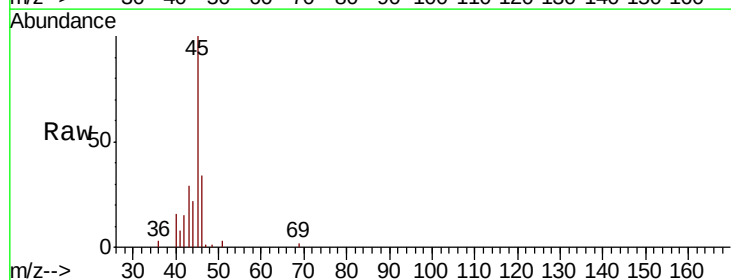
Acq: 13 Dec 2018 17:41

Tgt Ion: 45 Resp: 14682

Ion Ratio Lower Upper

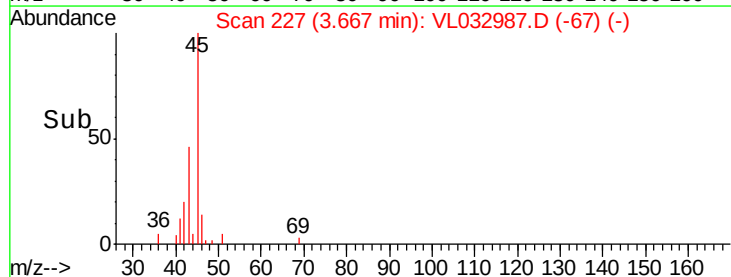
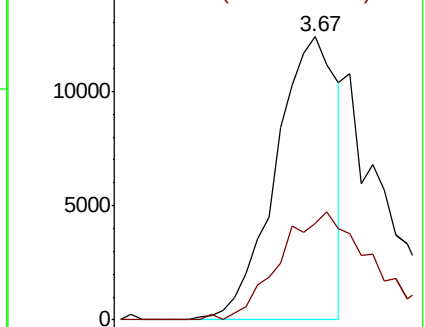
45 100

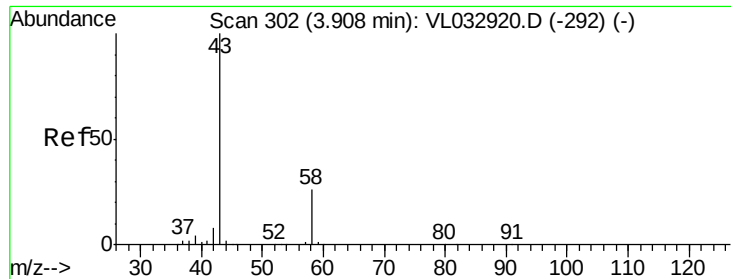
46 58.4 13.8 55.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.721 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

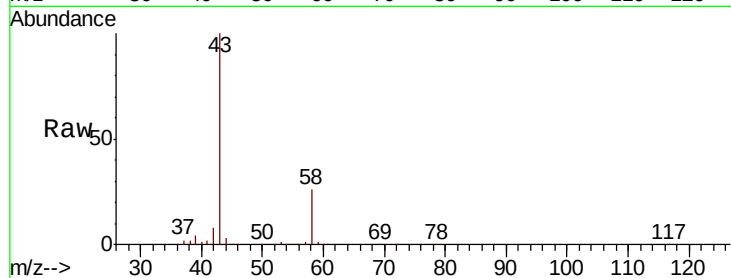
A55G4DL

Tgt Ion: 43 Resp: 588217

Ion Ratio Lower Upper

43 100

58 25.6 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

400000

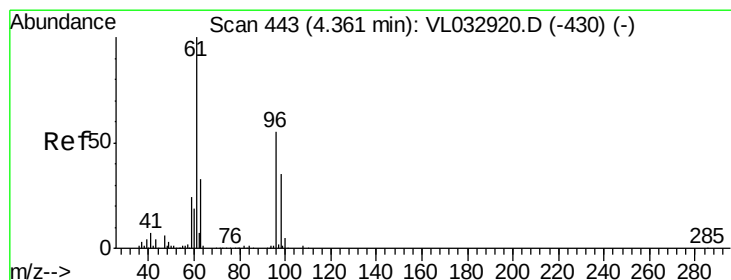
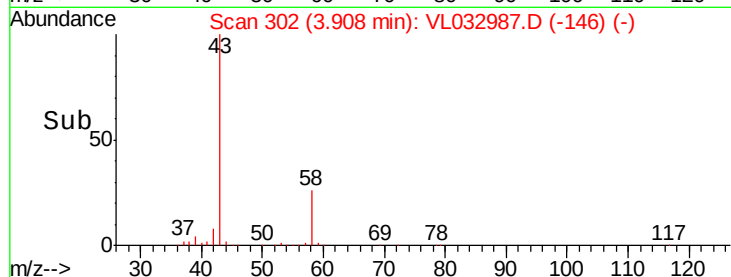
300000

200000

100000

0

Time-->



#17

tert-Butyl alcohol

Concen: 0.052 ppbv

RT: 4.39 min Scan# 452

Delta R.T. 0.03 min

Lab File: VL032987.D

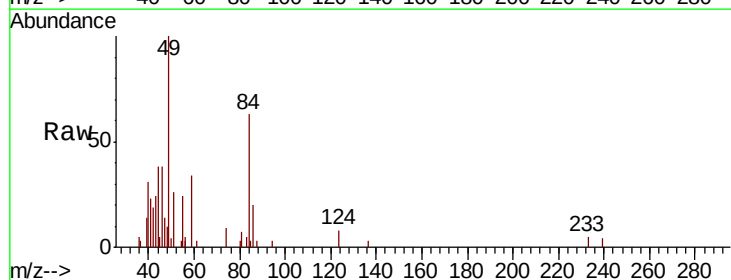
Acq: 13 Dec 2018 17:41

Tgt Ion: 59 Resp: 1373

Ion Ratio Lower Upper

59 100

57 47.8 0.6 1.0#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.39

4000

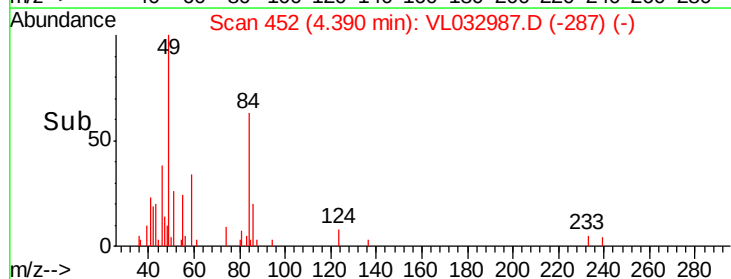
3000

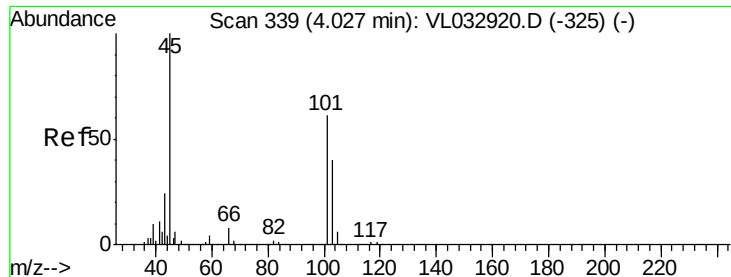
2000

1000

0

Time-->





#19

Isopropyl Alcohol

Concen: 0.247 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.03 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

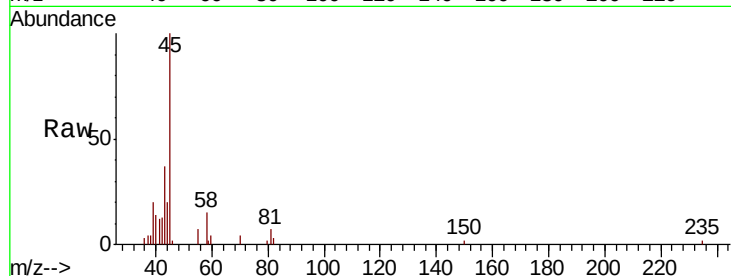
A55G4DL

Tgt Ion: 45 Resp: 15958

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

12000

10000

8000

6000

4000

2000

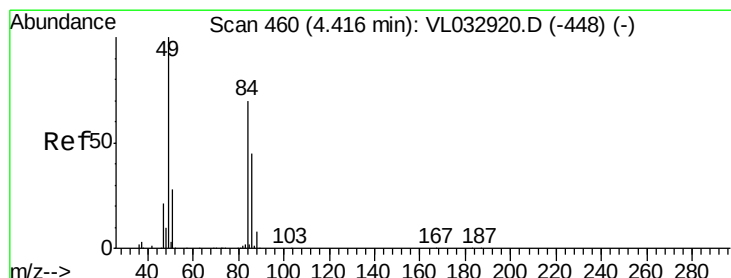
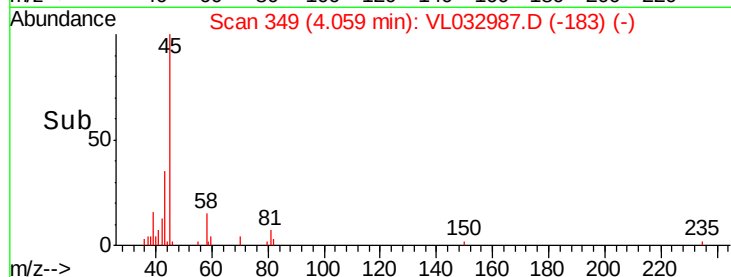
0

Time-->

4.00

4.05

4.10



#20

Methylene Chloride

Concen: 1.146 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

Tgt Ion: 84 Resp: 57612

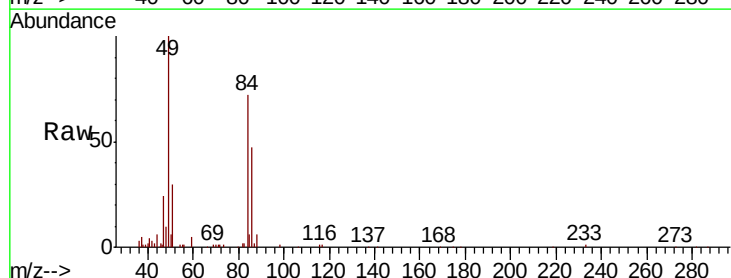
Ion Ratio Lower Upper

84 100

49 137.5 113.8 170.8

51 41.1 31.8 47.8

86 63.8 50.8 76.2



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

80000

60000

40000

20000

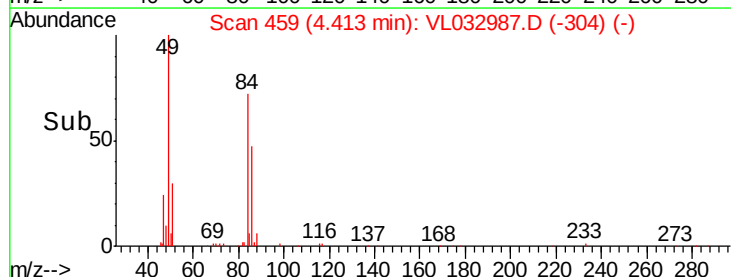
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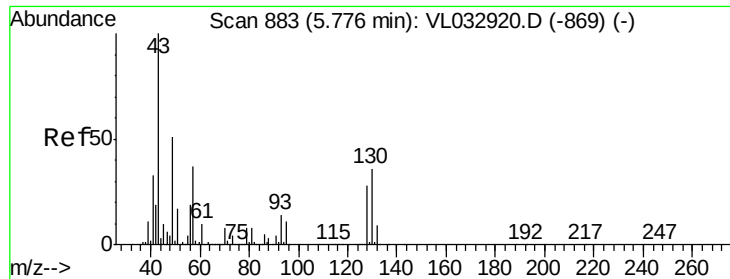
Time-->

4.35

4.40

4.45

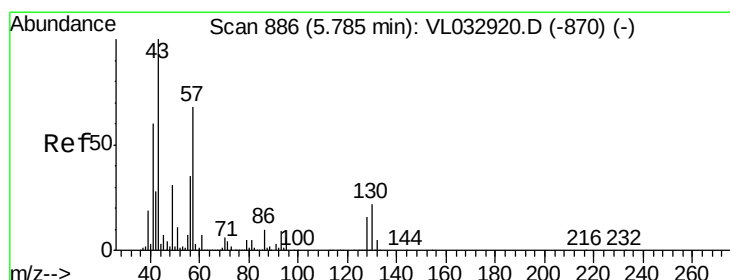
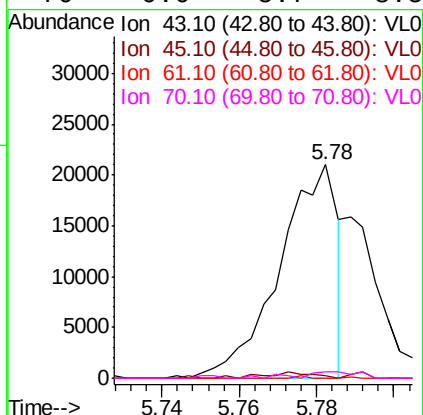
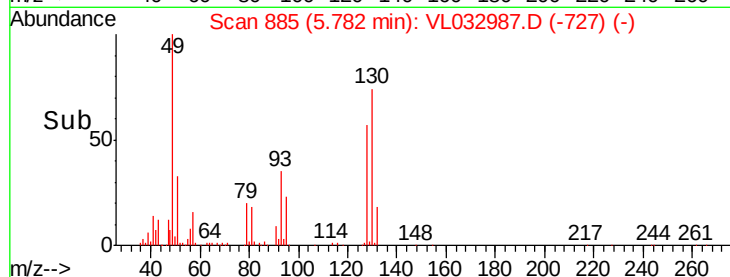
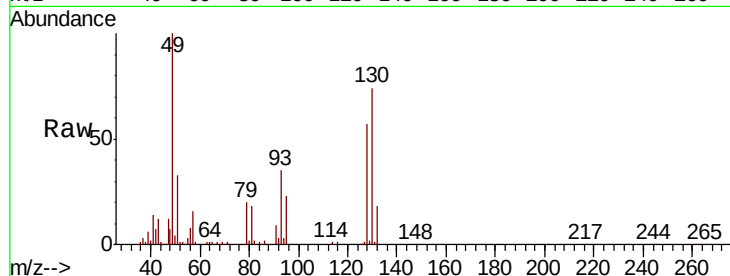




#25
Ethyl Acetate
Concen: 0.090 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL032987.D
Acq: 13 Dec 2018 17:41

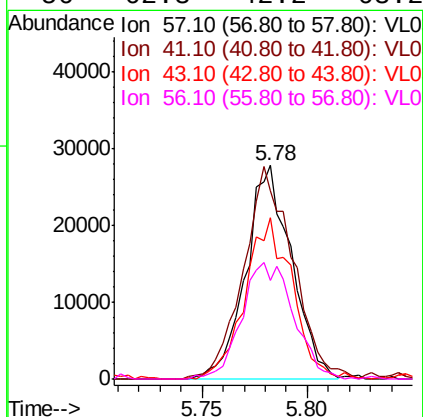
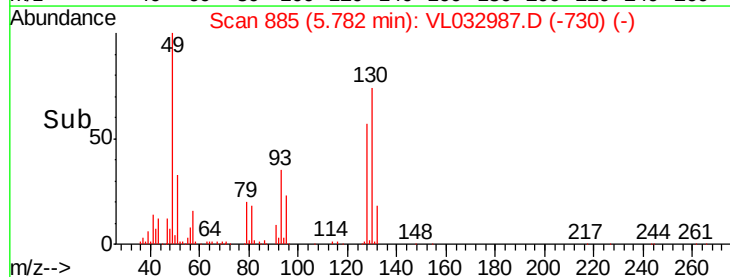
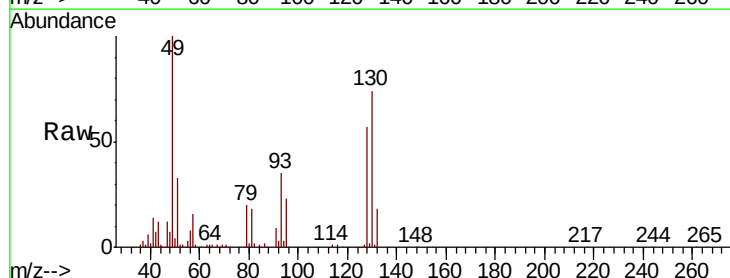
Instrument :
MSVOA_L
ClientSampleId :
A55G4DL

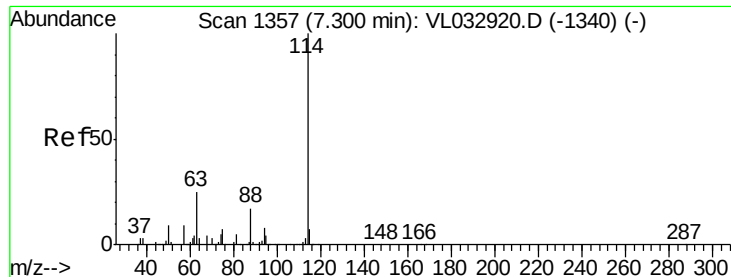
Tgt Ion:	43	Resp:	21962
Ion	Ratio	Lower	Upper
43	100		
45	3.5	7.8	11.6#
61	0.0	7.4	11.2#
70	0.0	5.7	8.5#



#26
Hexane
Concen: 0.371 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032987.D
Acq: 13 Dec 2018 17:41

Tgt Ion:	57	Resp:	41619
Ion	Ratio	Lower	Upper
57	100		
41	109.9	72.2	108.2#
43	78.3	171.9	257.9#
56	62.3	42.2	63.2

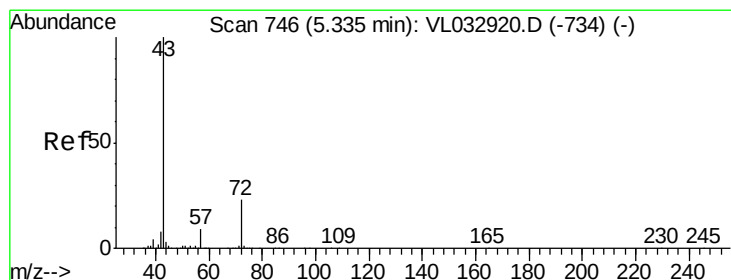
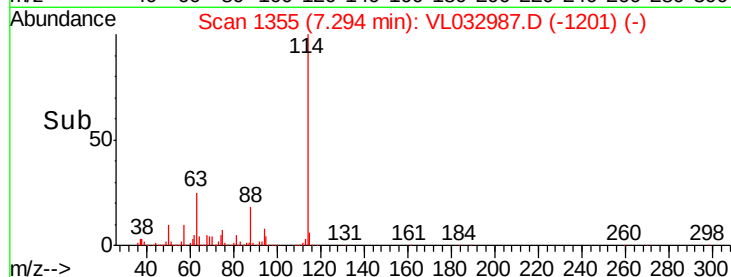
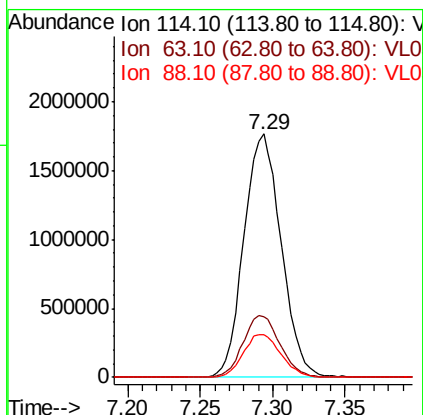
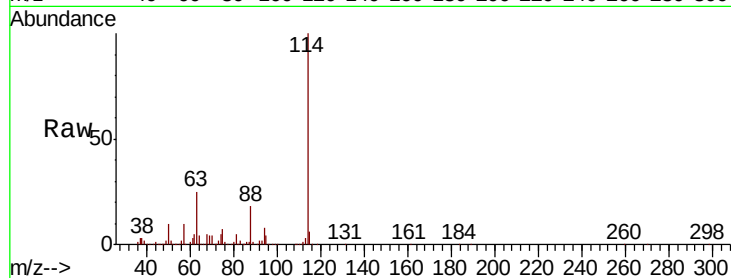




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032987.D
 Acq: 13 Dec 2018 17:41

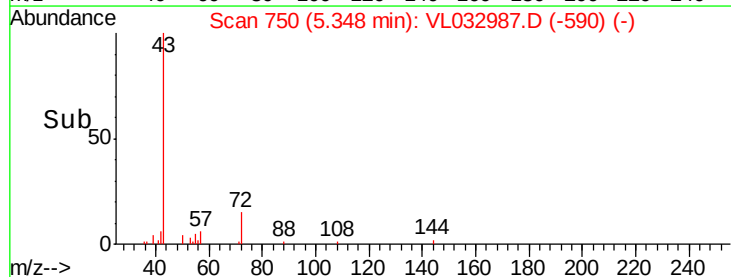
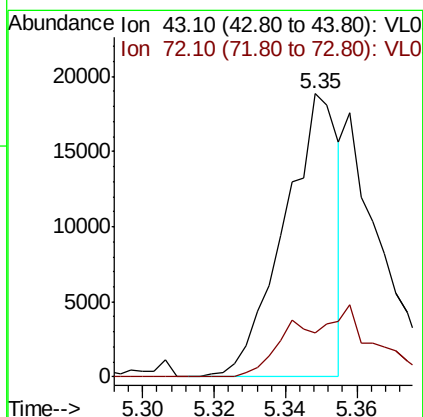
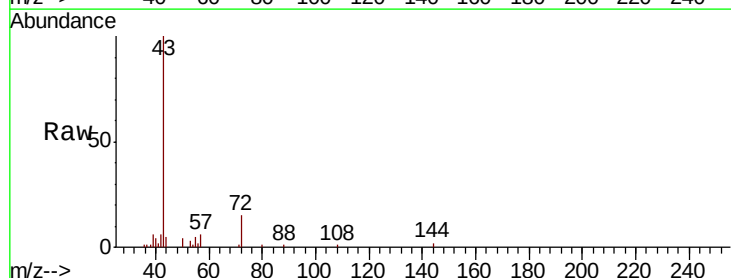
Instrument :
 MSVOA_L
 ClientSampleId :
 A55G4DL

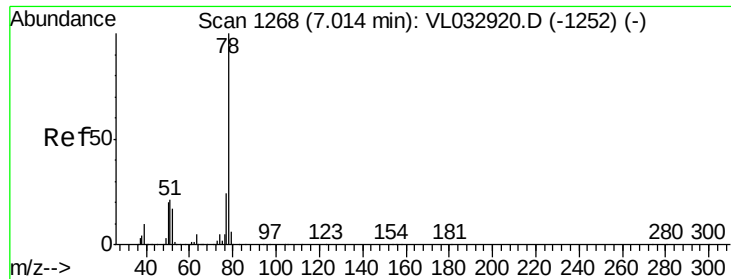
Tgt Ion:114 Resp: 3164325
 Ion Ratio Lower Upper
 114 100
 63 25.3 20.1 30.1
 88 18.0 14.2 21.4



#34
 2-Butanone
 Concen: 0.143 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. 0.01 min
 Lab File: VL032987.D
 Acq: 13 Dec 2018 17:41

Tgt Ion: 43 Resp: 19684
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.8 28.2#





#36

Benzene

Concen: 0.077 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

A55G4DL

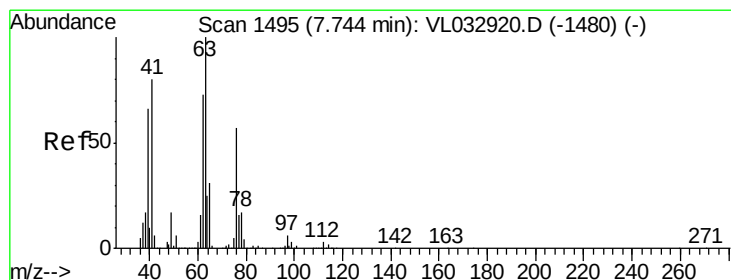
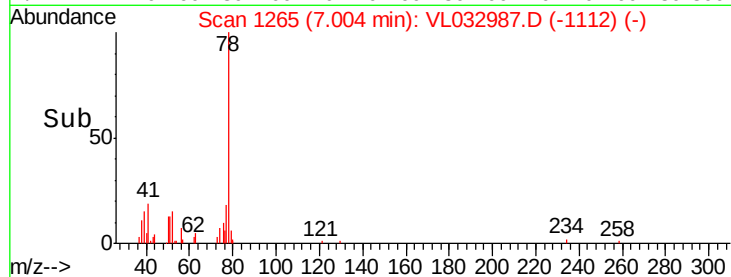
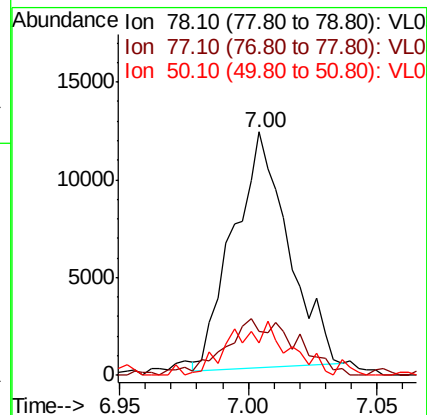
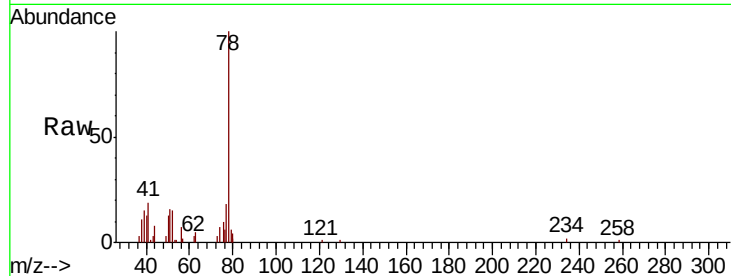
Tgt Ion: 78 Resp: 17989

Ion Ratio Lower Upper

78 100

77 16.7 18.9 28.3#

50 12.6 16.1 24.1#



#39

1,2-Dichloropropane

Concen: 9.030 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

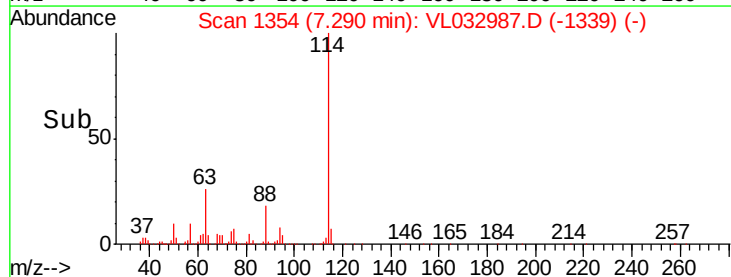
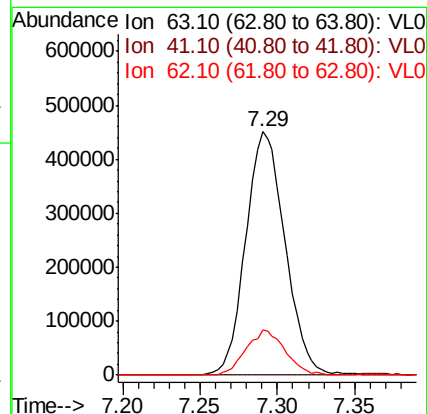
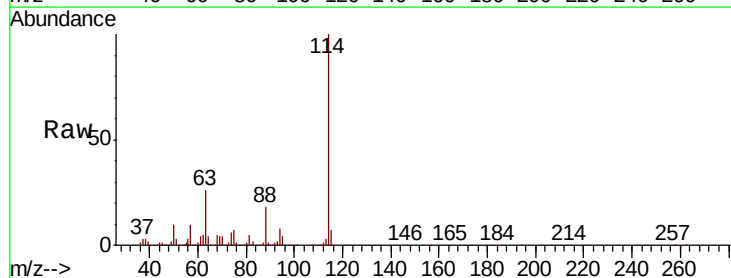
Tgt Ion: 63 Resp: 797089

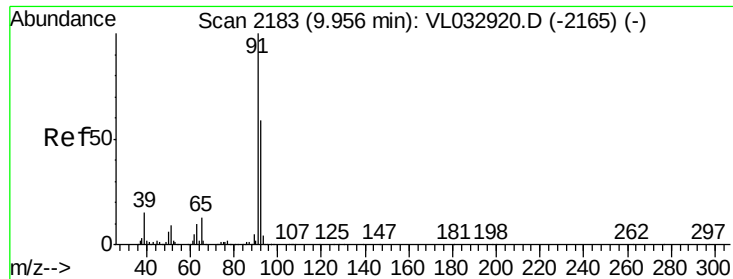
Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

62 18.3 58.8 88.2#





#53

Toluene

Concen: 0.089 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

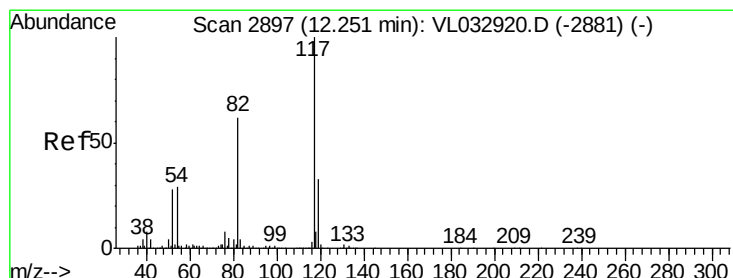
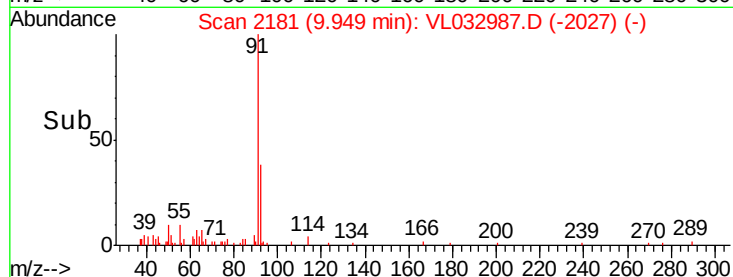
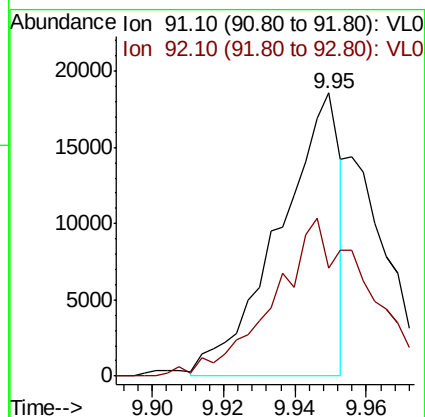
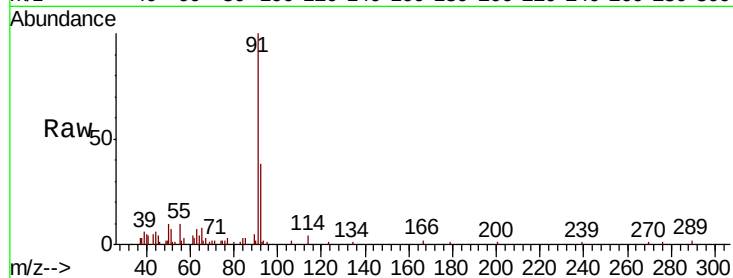
A55G4DL

Tgt Ion: 91 Resp: 21994

Ion Ratio Lower Upper

91 100

92 86.8 47.4 71.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

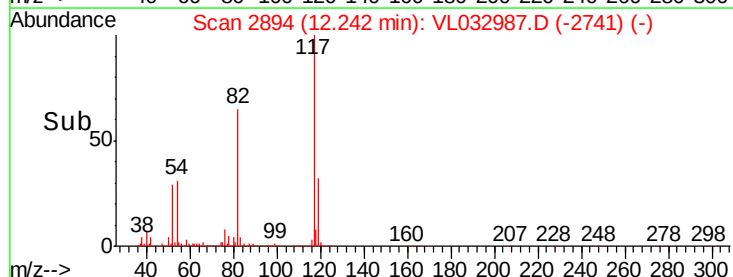
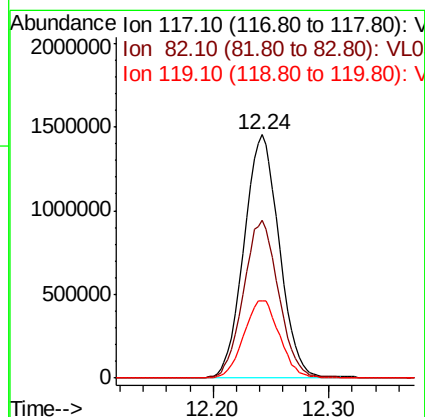
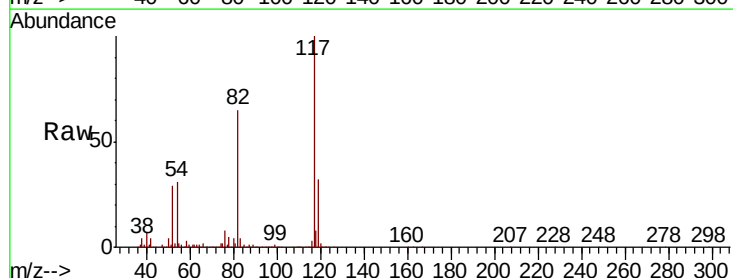
Tgt Ion: 117 Resp: 3075189

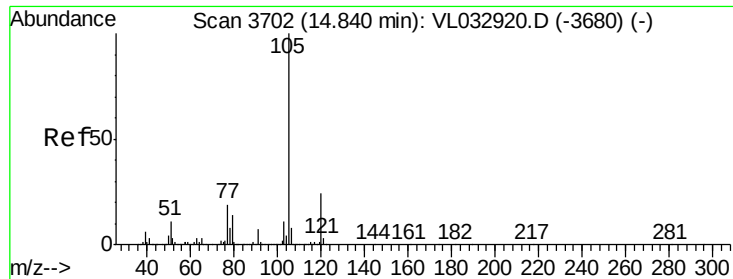
Ion Ratio Lower Upper

117 100

82 64.8 47.8 71.8

119 32.4 43.1 64.7#





#62

Isopropylbenzene

Concen: 0.328 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.01 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

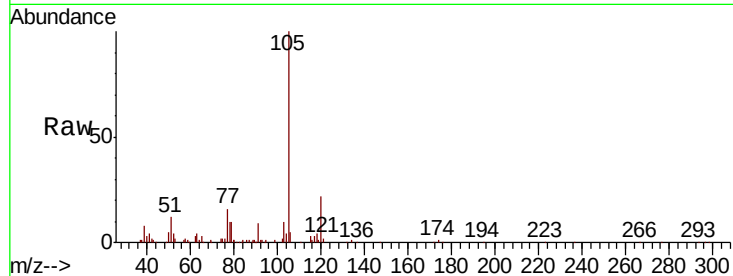
A55G4DL

Tgt Ion: 105 Resp: 137635

Ion Ratio Lower Upper

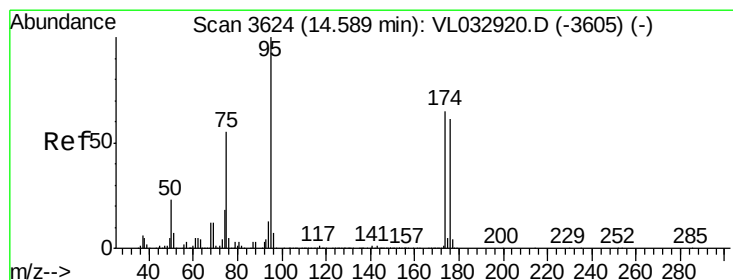
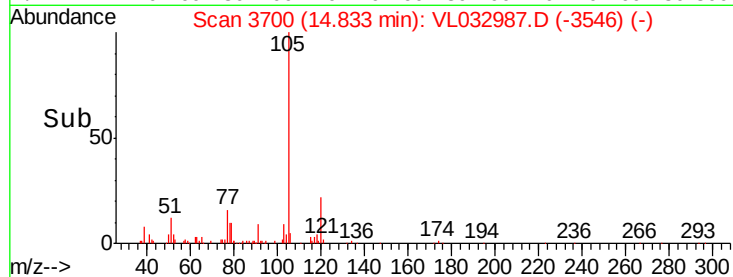
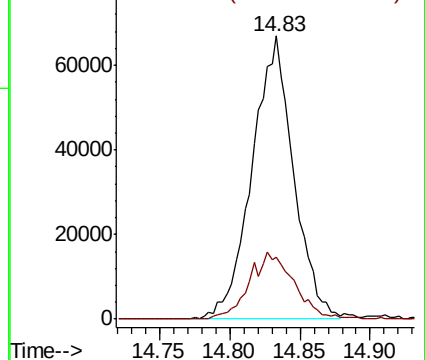
105 100

120 25.4 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.422 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032987.D

Acq: 13 Dec 2018 17:41

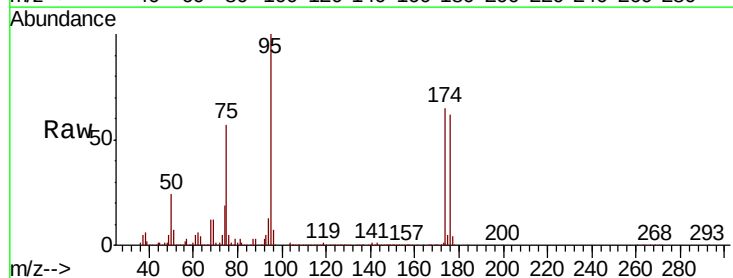
Tgt Ion: 95 Resp: 2367838

Ion Ratio Lower Upper

95 100

174 65.1 51.4 77.0

175 4.8 3.8 5.6



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

