

Data File : VL032979.D
Acq On : 12 Dec 2018 10:17
Operator : SY/AP
Sample : J6264-14DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
A55G3DL2

Quant Time: Dec 12 15:03:20 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	1074017	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2664379	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2586536	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1944903 10.18 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	3558	0.044	ppbv #	72
4) Chloromethane	3.17	50	4554	0.096	ppbv	91
9) Propene	3.24	41	18047	0.561	ppbv	92
10) Heptane	8.25	43	8866	0.073	ppbv	94
11) Trichlorofluoromethane	4.01	101	24876	0.184	ppbv #	81
13) Ethanol	3.66	45	6816	0.616	ppbv #	40
15) Acetone	3.91	43	456460	4.952	ppbv	100
20) Methylene Chloride	4.41	84	31703	0.704	ppbv	91
25) Ethyl Acetate	5.78	43	29601	0.136	ppbv #	80
26) Hexane	5.79	57	39235	0.390	ppbv #	40
27) Carbon Disulfide	4.62	76	4329	0.034	ppbv #	64
34) 2-Butanone	5.35	43	27260	0.235	ppbv	97
36) Benzene	7.01	78	11829	0.060	ppbv #	92
39) 1,2-Dichloropropane	7.29	63	675680	9.091	ppbv #	21
53) Toluene	9.95	91	26283	0.126	ppbv #	21
62) Isopropylbenzene	14.83	105	124437	0.353	ppbv	97

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

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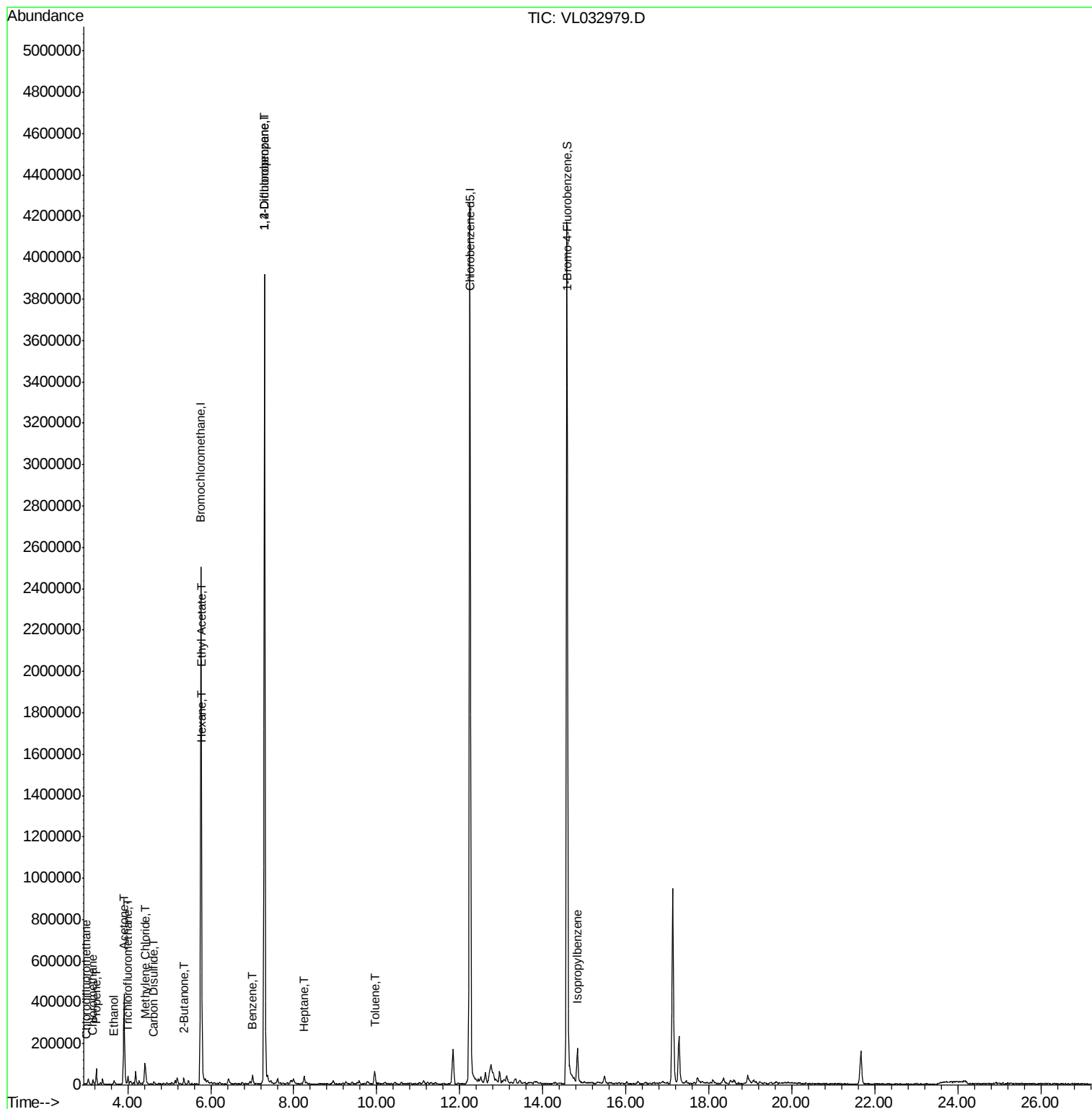
Quant Time: Dec 12 15:03:20 2018

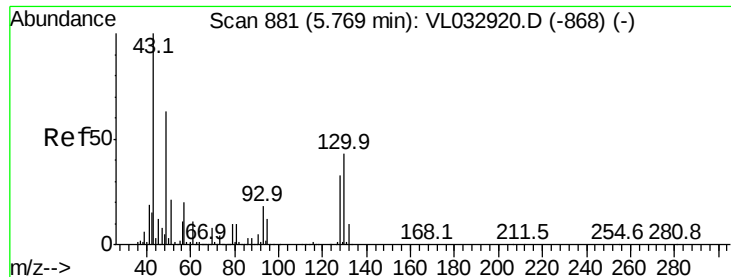
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL120718AIR.M

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Instrument :

MSVOA_L

ClientSampleId :

A55G3DL2

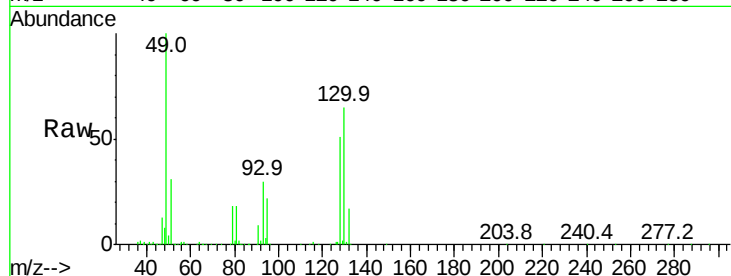
Tgt Ion: 49 Resp: 1074017

Ion Ratio Lower Upper

49 100

128 50.9 26.3 78.8

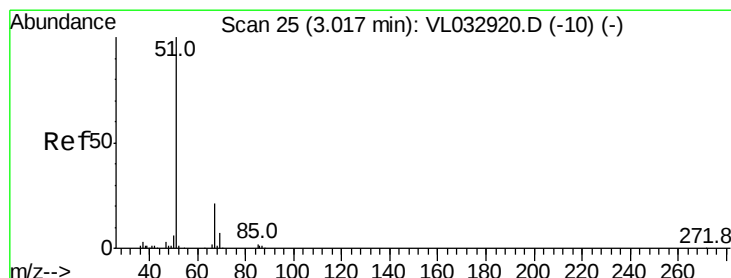
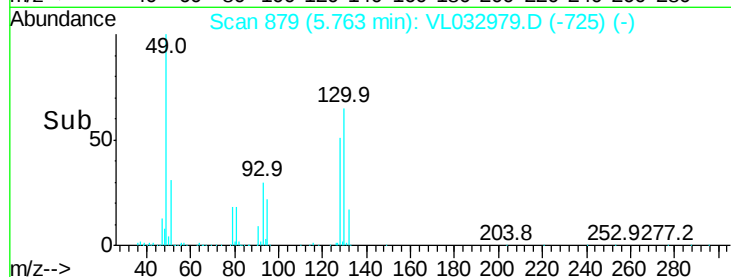
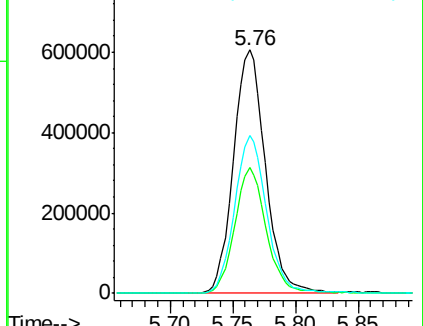
130 65.1 33.9 101.7



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



#3

Chlorodifluoromethane

Concen: 0.044 ppbv

RT: 2.99 min Scan# 15

Delta R.T. -0.03 min

Lab File: VL032979.D

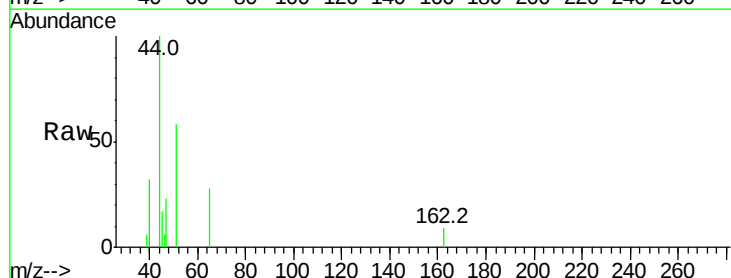
Acq: 12 Dec 2018 10:17

Tgt Ion: 51 Resp: 3558

Ion Ratio Lower Upper

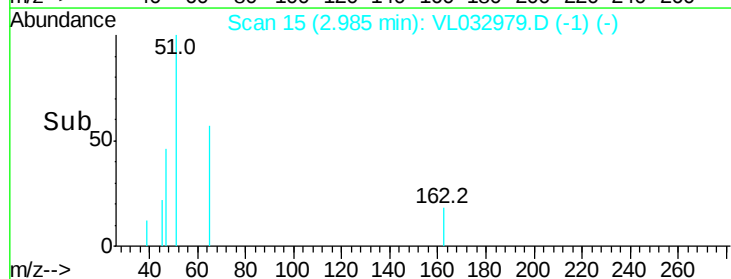
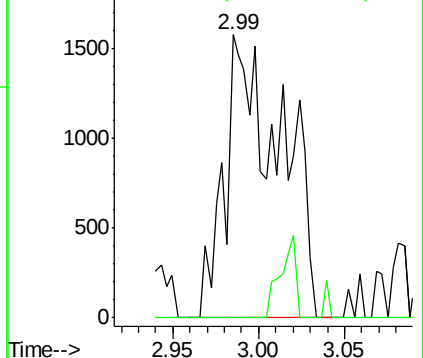
51 100

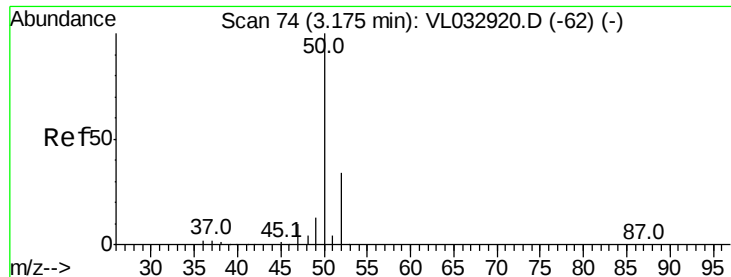
67 8.1 16.8 25.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.096 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Instrument :

MSVOA_L

ClientSampleId :

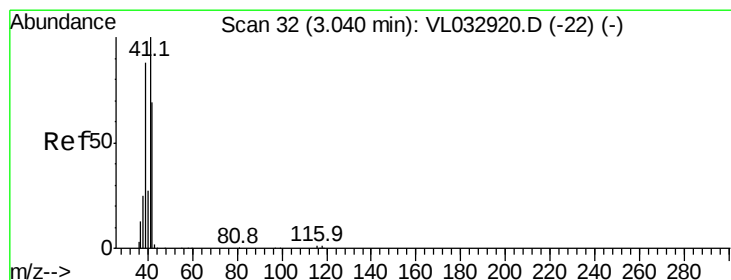
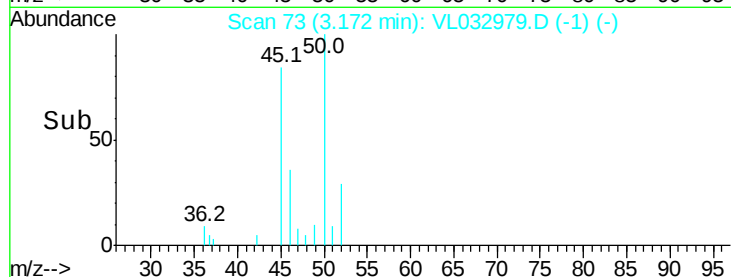
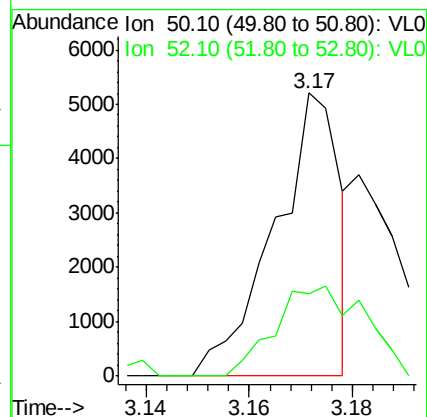
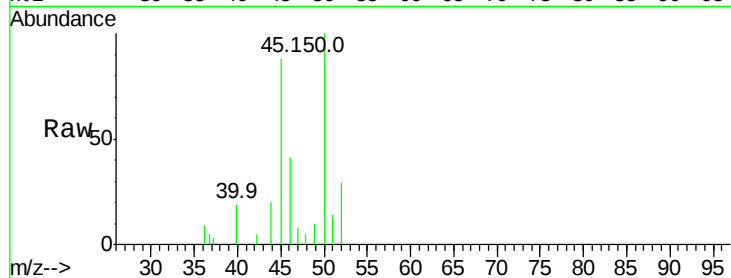
A55G3DL2

Tgt Ion: 50 Resp: 4554

Ion Ratio Lower Upper

50 100

52 29.1 27.3 40.9



#9

Propene

Concen: 0.561 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL032979.D

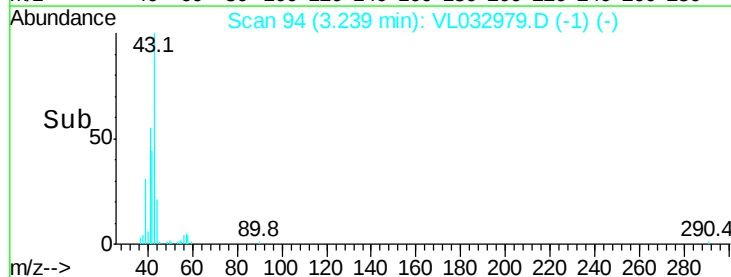
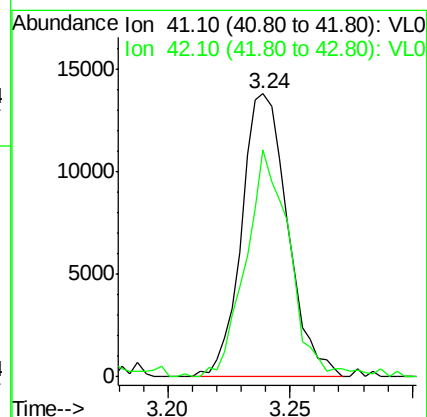
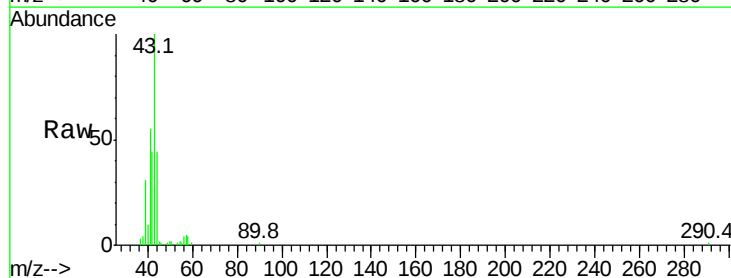
Acq: 12 Dec 2018 10:17

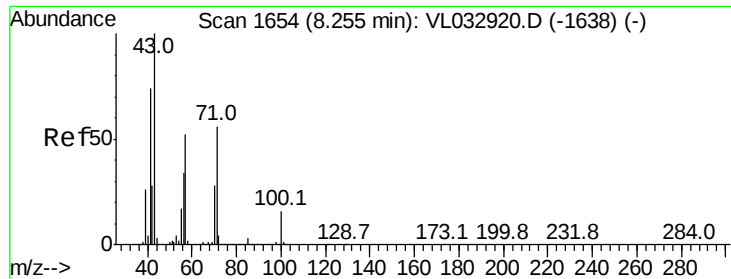
Tgt Ion: 41 Resp: 18047

Ion Ratio Lower Upper

41 100

42 77.1 56.2 84.2





#10

Heptane

Concen: 0.073 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Instrument :

MSVOA_L

ClientSampleId :

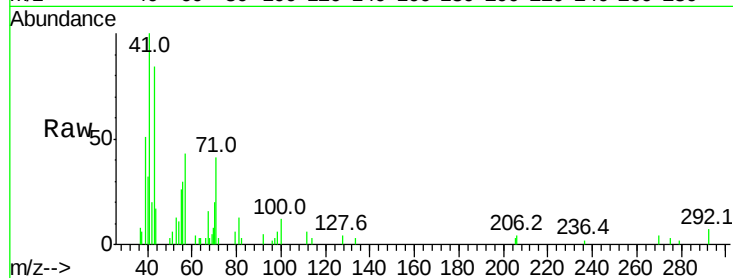
A55G3DL2

Tgt Ion: 43 Resp: 8866

Ion Ratio Lower Upper

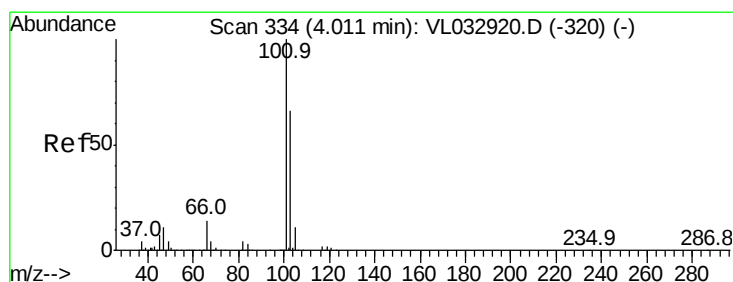
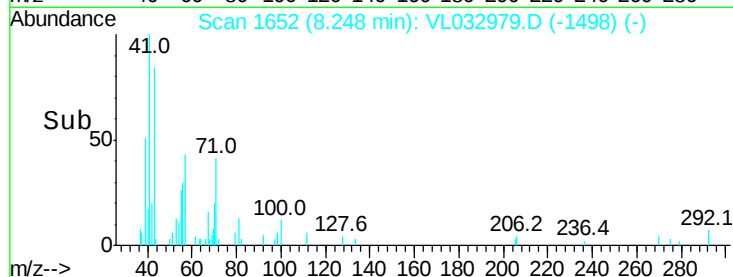
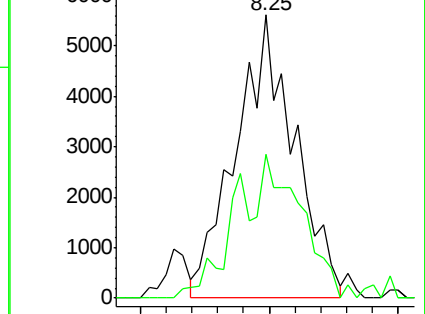
43 100

57 56.4 41.8 62.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.184 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL032979.D

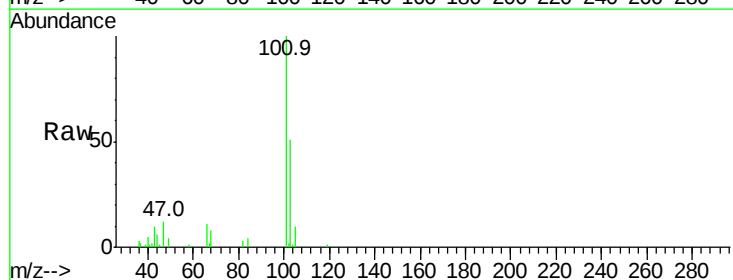
Acq: 12 Dec 2018 10:17

Tgt Ion:101 Resp: 24876

Ion Ratio Lower Upper

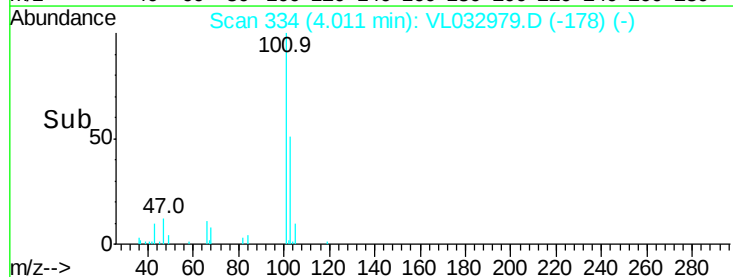
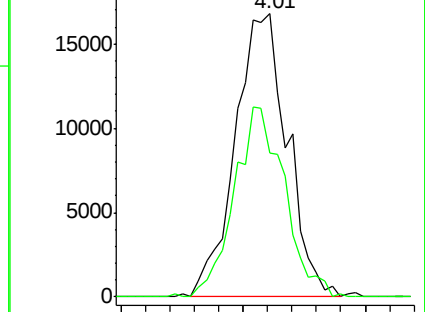
101 100

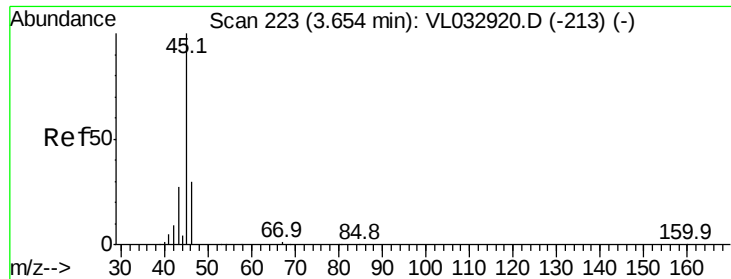
103 50.8 52.7 79.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 0.616 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Instrument :

MSVOA_L

ClientSampleId :

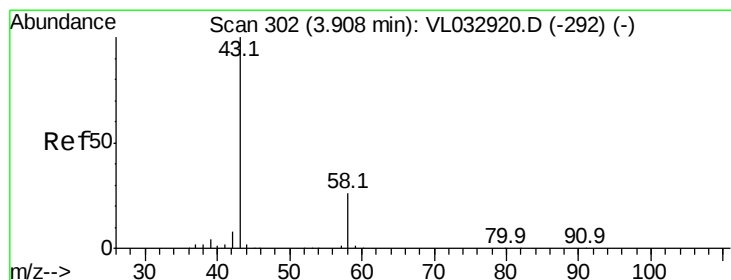
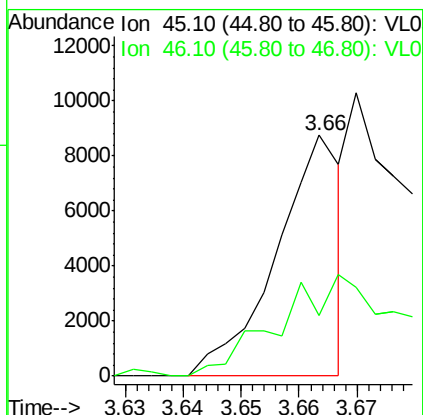
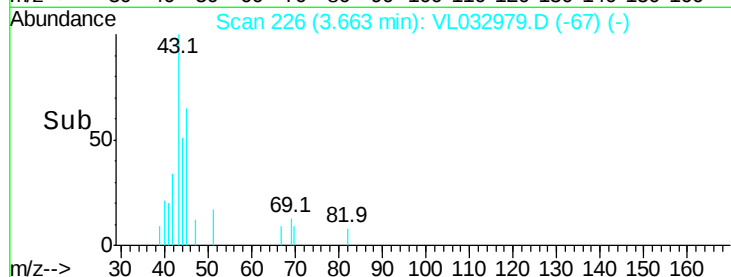
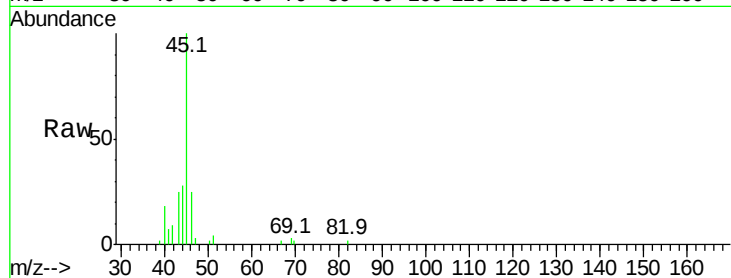
A55G3DL2

Tgt Ion: 45 Resp: 6816

Ion Ratio Lower Upper

45 100

46 0.0 13.8 55.4#



#15

Acetone

Concen: 4.952 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL032979.D

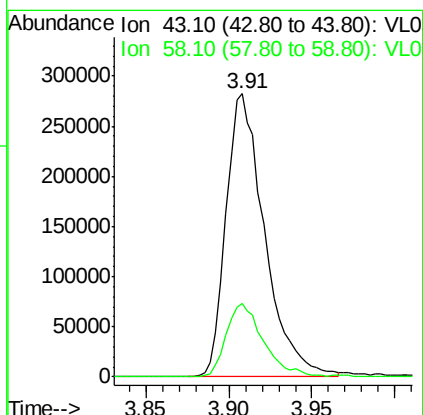
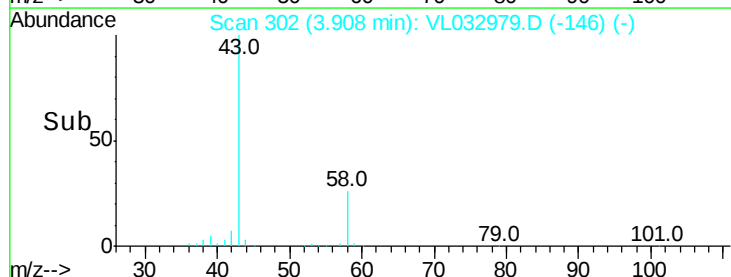
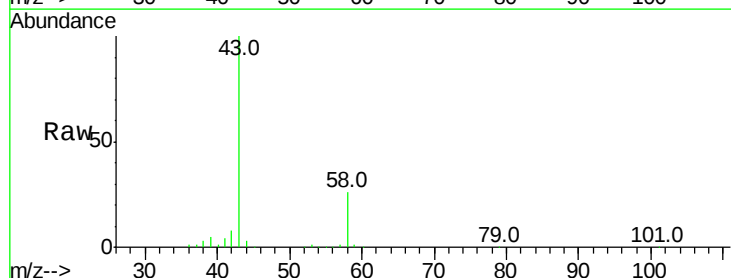
Acq: 12 Dec 2018 10:17

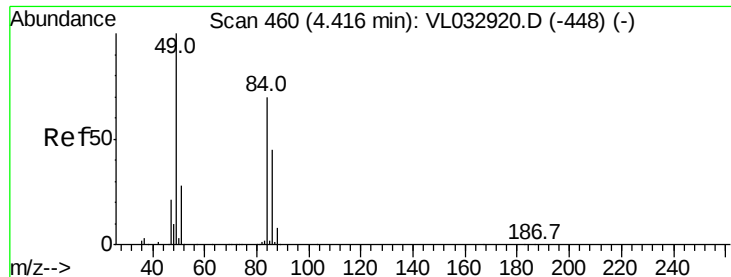
Tgt Ion: 43 Resp: 456460

Ion Ratio Lower Upper

43 100

58 25.6 20.6 30.8





#20

Methylene Chloride

Concen: 0.704 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Instrument :

MSVOA_L

ClientSampleId :

A55G3DL2

Tgt Ion: 84 Resp: 31703

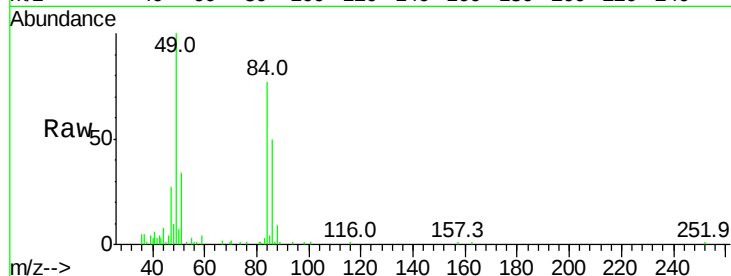
Ion Ratio Lower Upper

84 100

49 126.9 113.8 170.8

51 44.2 31.8 47.8

86 65.1 50.8 76.2

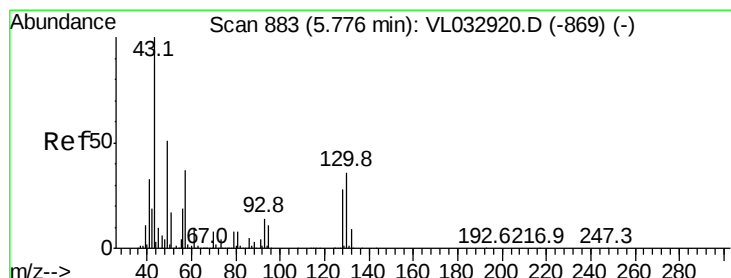
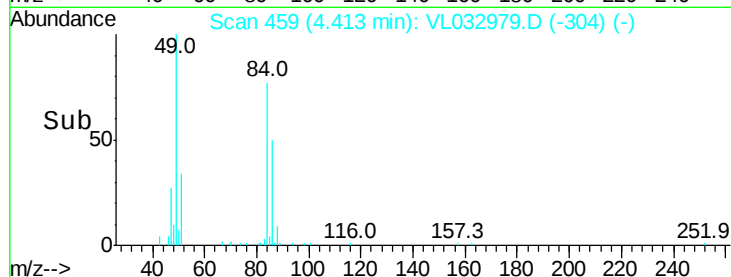
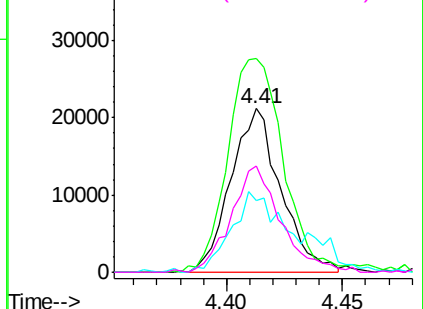


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#25

Ethyl Acetate

Concen: 0.136 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Tgt Ion: 43 Resp: 29601

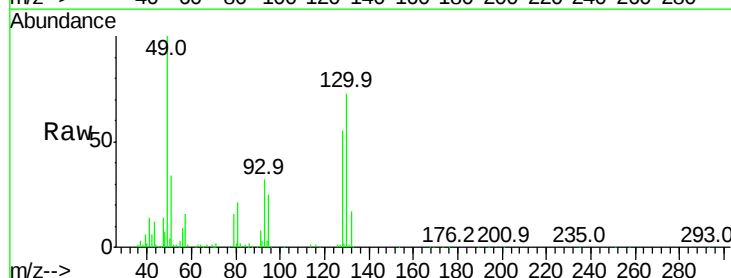
Ion Ratio Lower Upper

43 100

45 2.3 7.8 11.6#

61 0.6 7.4 11.2#

70 2.4 5.7 8.5#

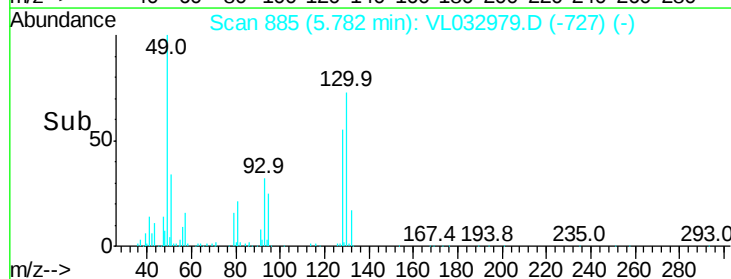
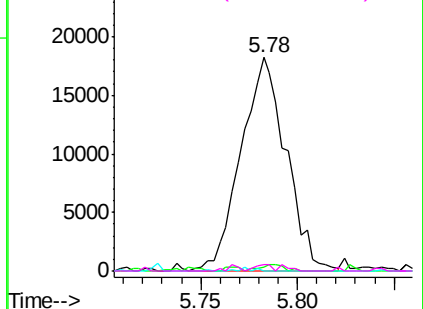


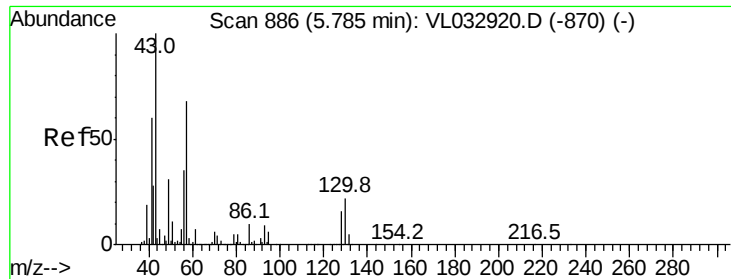
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 0.390 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.00 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Instrument :

MSVOA_L

ClientSampleId :

A55G3DL2

Tgt Ion: 57 Resp: 39235

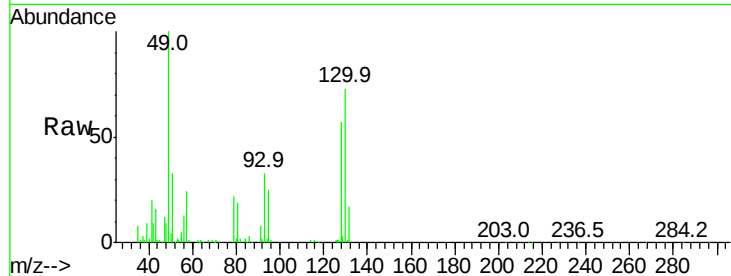
Ion Ratio Lower Upper

57 100

41 110.3 72.2 108.2#

43 76.8 171.9 257.9#

56 66.0 42.2 63.2#

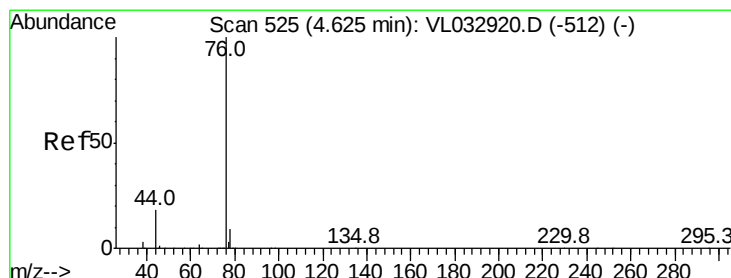
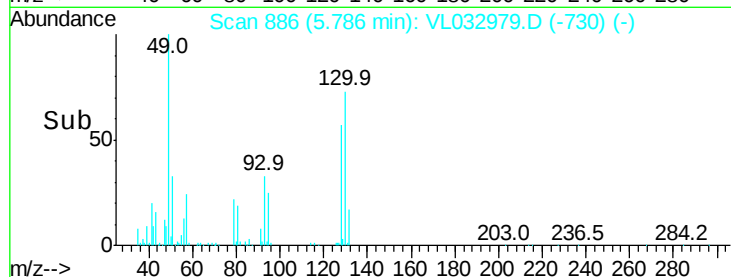
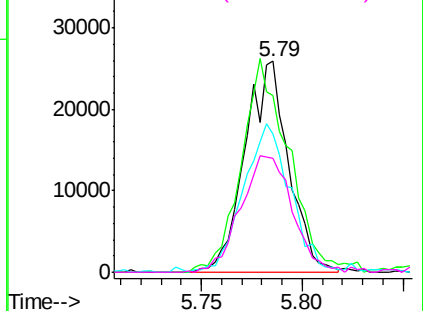


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.034 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

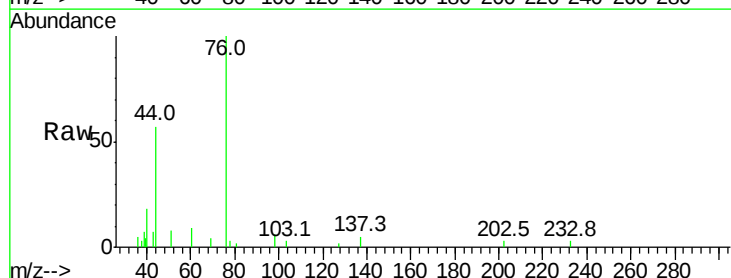
Tgt Ion: 76 Resp: 4329

Ion Ratio Lower Upper

76 100

44 0.0 14.7 22.1#

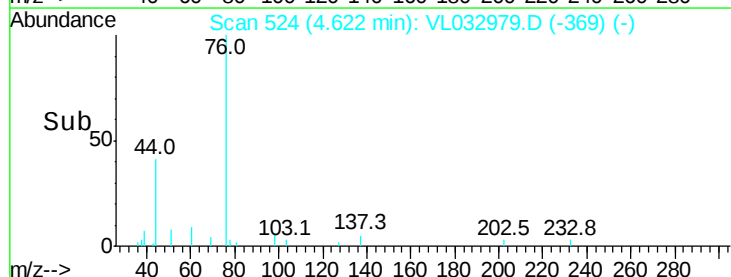
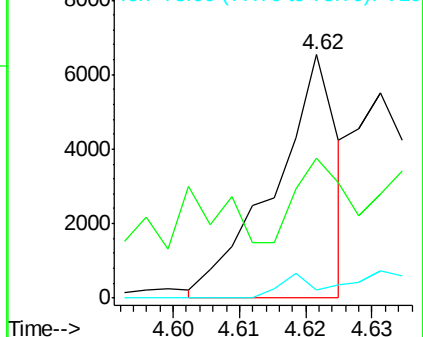
78 0.0 7.4 11.2#

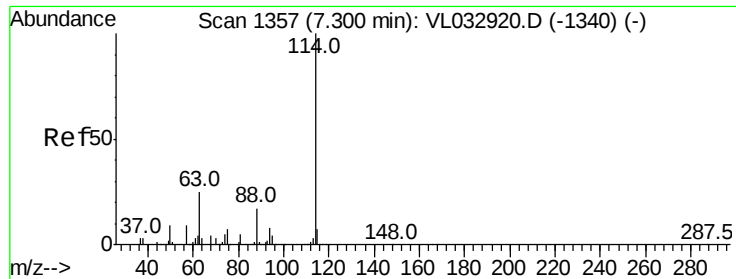


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

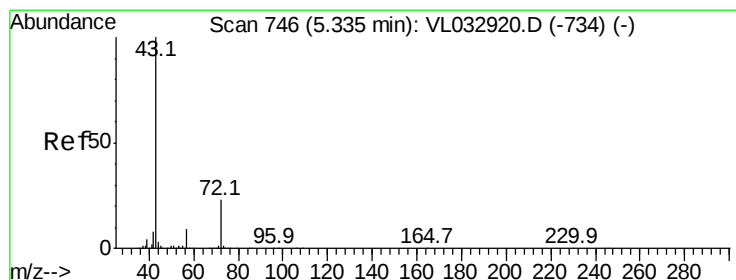
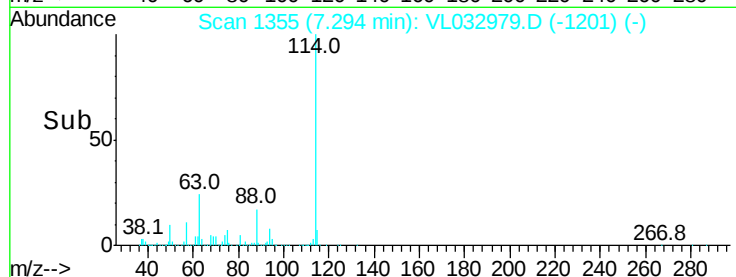
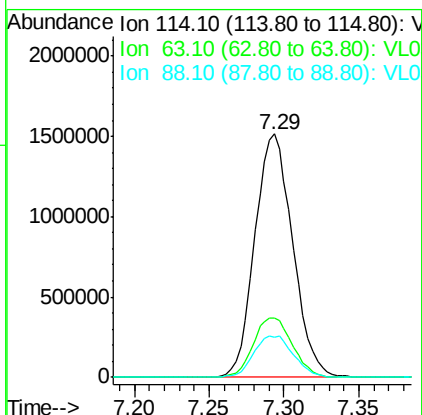
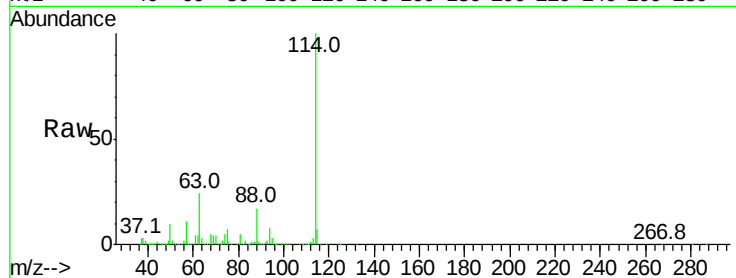




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032979.D
 Acq: 12 Dec 2018 10:17

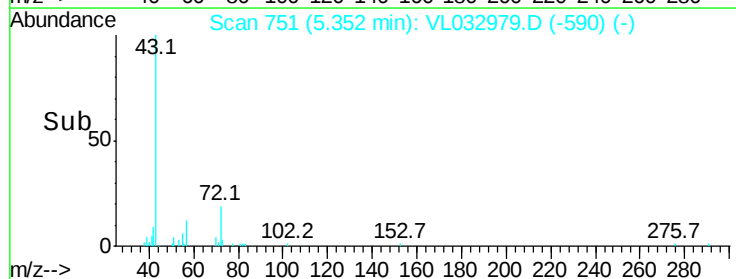
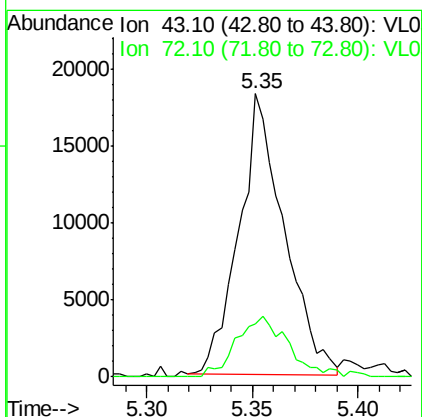
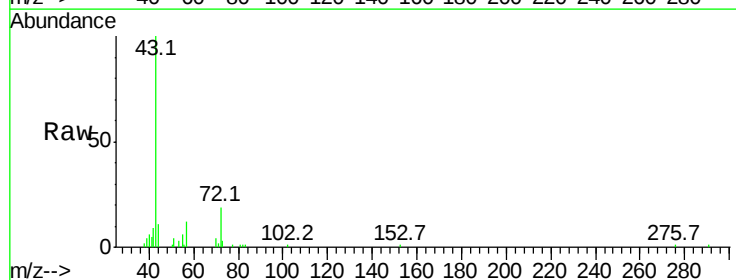
Instrument :
 MSVOA_L
 ClientSampleId :
 A55G3DL2

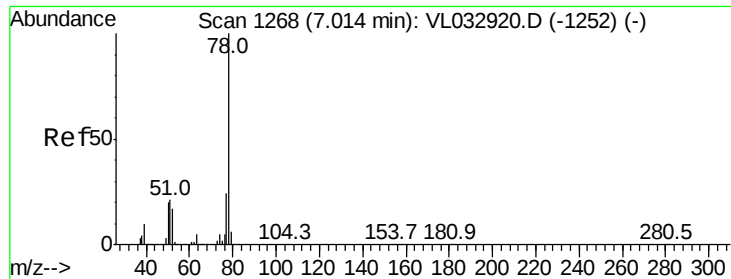
Tgt Ion:114 Resp: 2664379
 Ion Ratio Lower Upper
 114 100
 63 25.5 20.1 30.1
 88 18.0 14.2 21.4



#34
 2-Butanone
 Concen: 0.235 ppbv
 RT: 5.35 min Scan# 751
 Delta R.T. 0.02 min
 Lab File: VL032979.D
 Acq: 12 Dec 2018 10:17

Tgt Ion: 43 Resp: 27260
 Ion Ratio Lower Upper
 43 100
 72 25.2 18.8 28.2





#36

Benzene

Concen: 0.060 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Instrument :

MSVOA_L

ClientSampleId :

A55G3DL2

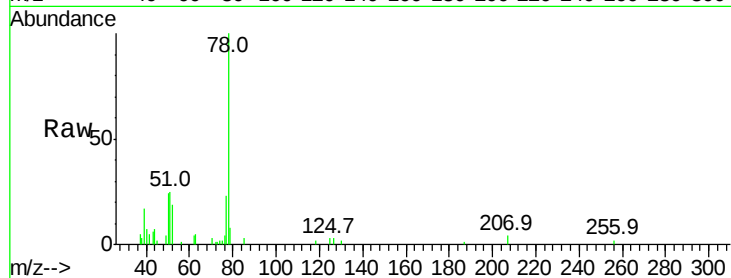
Tgt Ion: 78 Resp: 11829

Ion Ratio Lower Upper

78 100

77 20.6 18.9 28.3

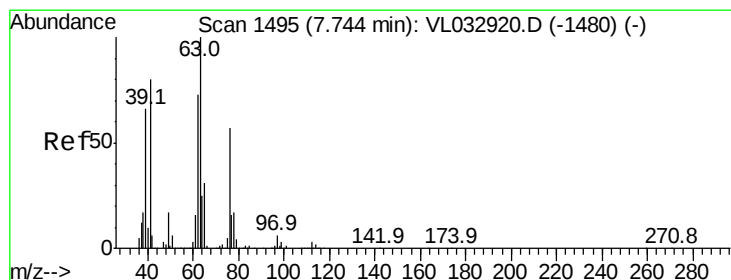
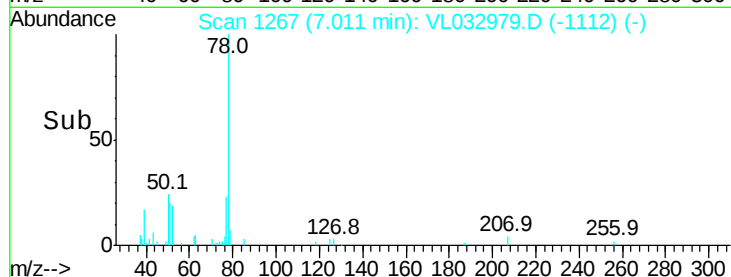
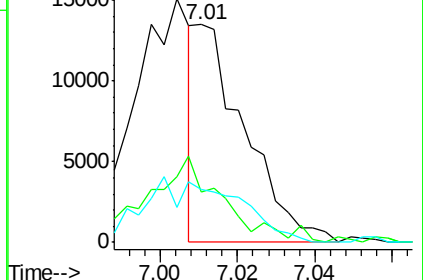
50 24.4 16.1 24.1#



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



#39

1,2-Dichloropropane

Concen: 9.091 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.45 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

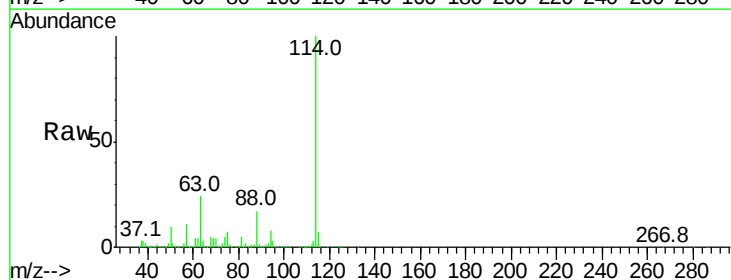
Tgt Ion: 63 Resp: 675680

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

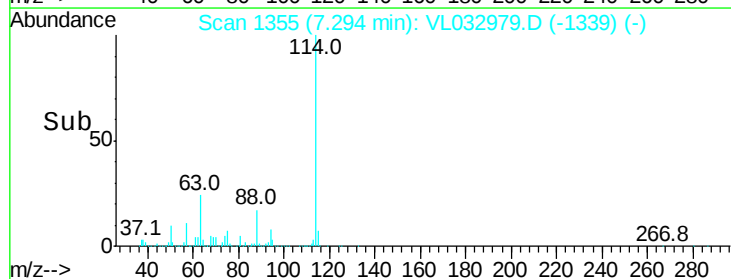
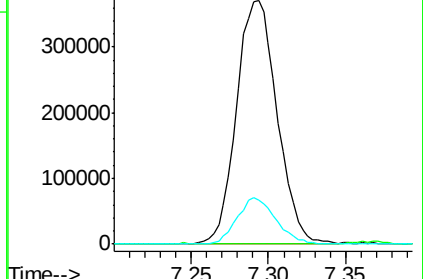
62 17.8 58.8 88.2#

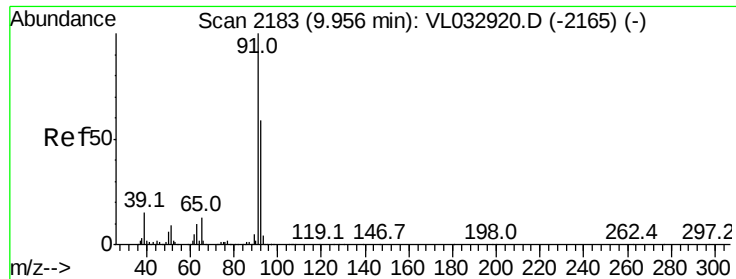


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.126 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Instrument :

MSVOA_L

ClientSampleId :

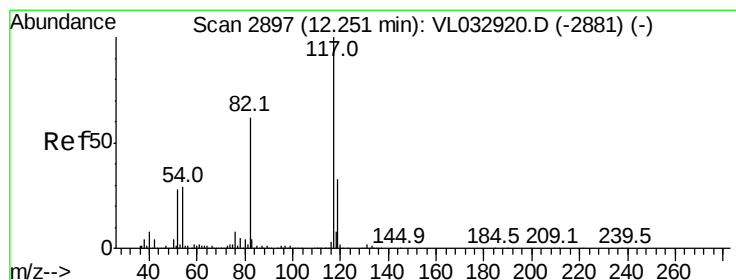
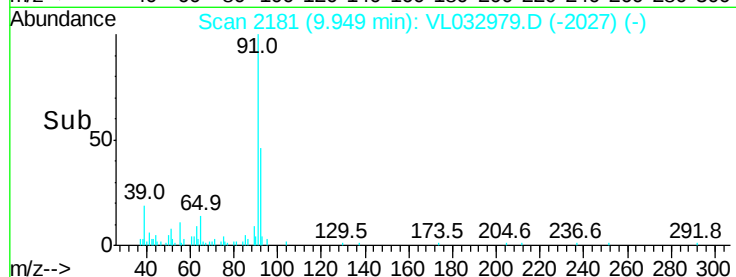
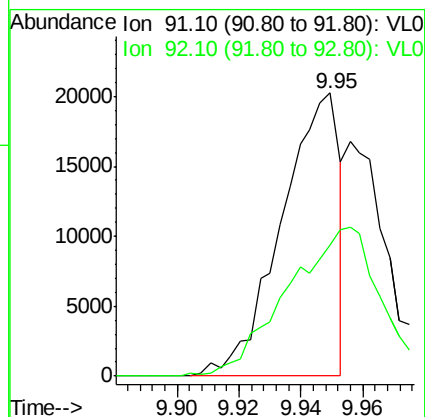
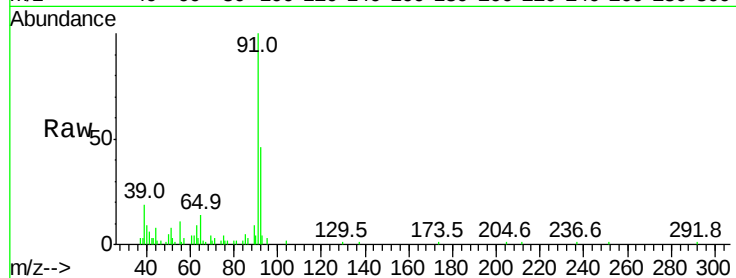
A55G3DL2

Tgt Ion: 91 Resp: 26283

Ion Ratio Lower Upper

91 100

92 0.0 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: VL032979.D

Acq: 12 Dec 2018 10:17

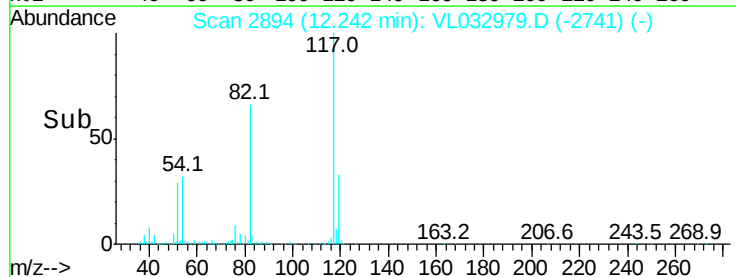
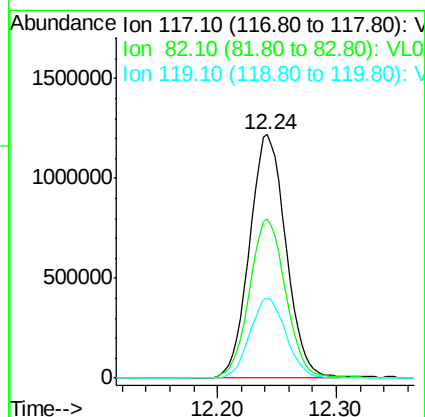
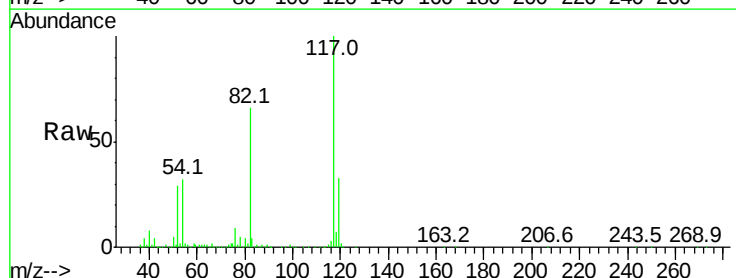
Tgt Ion: 117 Resp: 2586536

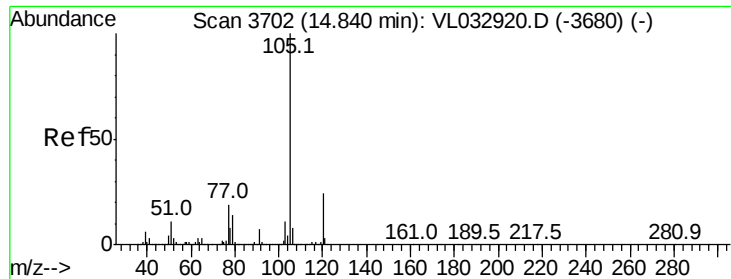
Ion Ratio Lower Upper

117 100

82 65.7 47.8 71.8

119 32.8 43.1 64.7#





#62

Isopropylbenzene

Concen: 0.353 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. -0.01 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

Instrument :

MSVOA_L

ClientSampleId :

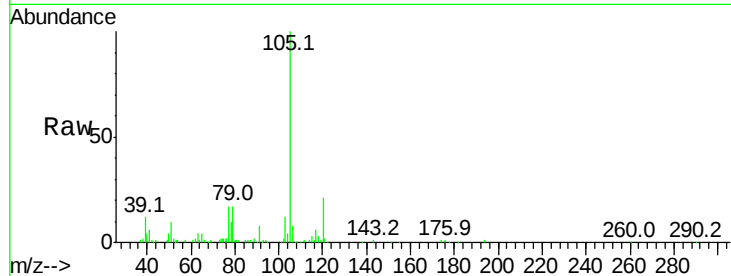
A55G3DL2

Tgt Ion: 105 Resp: 124437

Ion Ratio Lower Upper

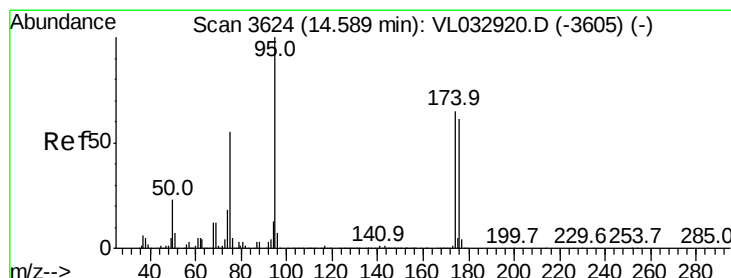
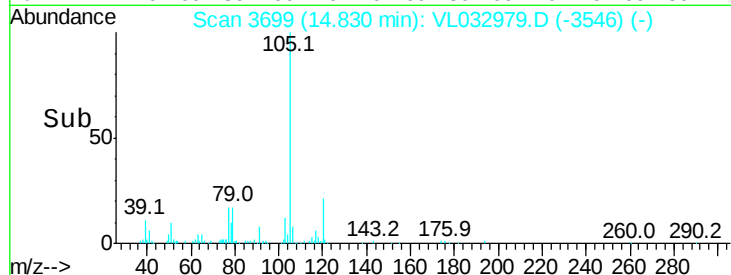
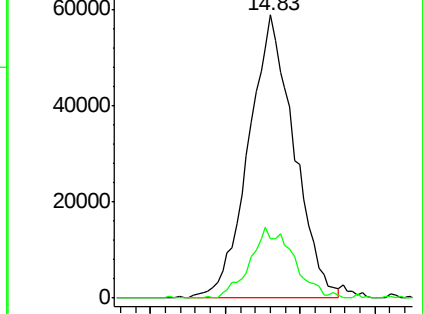
105 100

120 23.9 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: 10.178 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.01 min

Lab File: VL032979.D

Acq: 12 Dec 2018 10:17

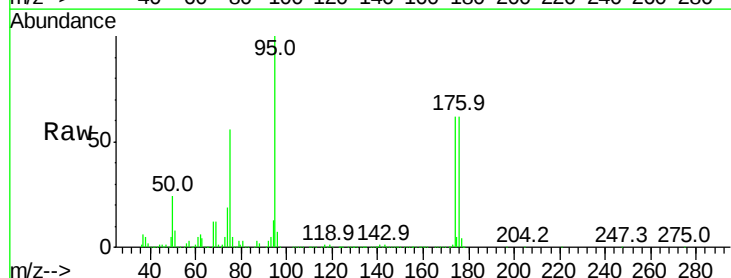
Tgt Ion: 95 Resp: 1944903

Ion Ratio Lower Upper

95 100

174 64.8 51.4 77.0

175 4.7 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

