

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025763.D
 Acq On : 27 Jul 2015 21:38
 Operator : SY/MD
 Sample : G3100-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Quant Time: Jul 28 01:03:25 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	651702	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1758243	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.74	117	2125394	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	1859062	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	53271	0.32	ppbv	97
3) Chlorodifluoromethane	3.54	51	901406	9.81	ppbv #	62
4) Chloromethane	3.75	50	33900	0.81	ppbv	92
7) Chloroethane	4.23	64	1339	0.06	ppbv #	45
9) Propene	3.82	41	216976	7.11	ppbv	94
10) Heptane	9.35	43	255233	2.15	ppbv #	71
11) Trichlorofluoromethane	4.69	101	43629	0.20	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	5.30	101	7791	0.06	ppbv	98
13) Ethanol	4.32	45	1651864	348.19	ppbv	97
15) Acetone	4.59	43	2759682	23.97	ppbv #	87
16) 1,3-Butadiene	4.00	39	133736	2.92	ppbv #	16
17) tert-Butyl alcohol	5.14	59	44881	0.46	ppbv	98
19) Isopropyl Alcohol	4.75	45	1512986	32.92	ppbv #	99
20) Methylene Chloride	5.14	84	87406	1.87	ppbv	93
21) Allyl Chloride	5.15	41	9022	0.13	ppbv #	1
23) Vinyl Acetate	5.99	43	127783	0.73	ppbv #	71
25) Ethyl Acetate	6.67	43	282827	1.62	ppbv #	58
26) Hexane	6.65	57	47267	0.58	ppbv #	1
27) Carbon Disulfide	5.38	76	17454	0.13	ppbv #	47
29) Chloroform	6.74	83	1139981	7.04	ppbv	98
30) Cyclohexane	8.28	84	86011	1.10	ppbv #	64
31) cis-1,2-Dichloroethene	6.67	61	33477	0.41	ppbv #	27
34) 2-Butanone	6.19	43	438901	4.40	ppbv	99
35) Carbon Tetrachloride	8.16	117	18590	0.10	ppbv	88
36) Benzene	8.02	78	50988	0.30	ppbv	95
37) 1,2-Dichloroethane	7.37	62	66864	0.47	ppbv	99
39) 1,2-Dichloropropane	8.82	63	9687	0.16	ppbv	93
41) Tetrahydrofuran	7.13	42	30083	0.60	ppbv	89
42) Bromodichloromethane	9.02	83	28773	0.17	ppbv #	93
43) Methyl Methacrylate	9.26	69	22985	0.36	ppbv	92
44) 2,2,4-Trimethylpentane	9.08	57	114020	0.39	ppbv #	79
50) 4-Methyl-2-Pentanone	10.09	43	43171	0.30	ppbv	89
51) 2-Hexanone	11.62	43	13484	0.10	ppbv #	71
52) Tetrachloroethene	12.79	164	268716	3.18	ppbv	96
53) Toluene	11.24	91	7958891	33.63	ppbv	95
58) Ethyl Benzene	14.41	91	255631	0.73	ppbv	96
59) m/p-Xylene	14.69	91	557985	1.81	ppbv	97
60) o-Xylene	15.49	91	239491	0.72	ppbv	99
61) Styrene	15.30	104	148028	1.27	ppbv	99
62) Isopropylbenzene	16.55	105	49347	0.11	ppbv	99
64) n-propylbenzene	17.52	120	34163	0.29	ppbv	89

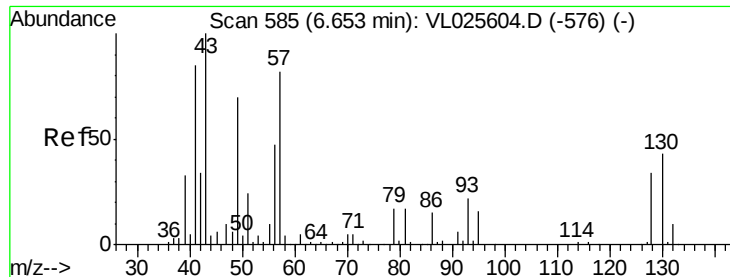
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\
 Data File : VL025763.D
 Acq On : 27 Jul 2015 21:38
 Operator : SY/MD
 Sample : G3100-01
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Quant Time: Jul 28 01:03:25 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 02:22:55 2015
 QLast Update : Wed Jul 08 02:22:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	18.82	119	71339	0.17	ppbv #	71
67) sec-Butylbenzene	19.40	105	36801	0.06	ppbv	94
69) p-Isopropyltoluene	19.78	119	1203376	2.44	ppbv	97
70) n-Butylbenzene	20.75	91	64459	0.13	ppbv #	45
72) 4-Ethyltoluene	17.82	105	212183	0.58	ppbv	96
73) 1,3,5-Trimethylbenzene	17.98	105	211414	0.59	ppbv	99
74) 1,2,4-Trimethylbenzene	18.83	105	590712	1.46	ppbv #	69
75) 1,3-Dichlorobenzene	19.27	146	323838	1.23	ppbv	97
76) 1,4-Dichlorobenzene	19.27	146	323838	1.23	ppbv	96
77) 1,2-Dichlorobenzene	20.02	146	14068	0.05	ppbv #	75
79) Naphthalene	23.92	128	93833	0.24	ppbv	98
80) Naphthalene,2-methyl-	26.05	142	4857	0.04	ppbv #	49

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 584

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-1

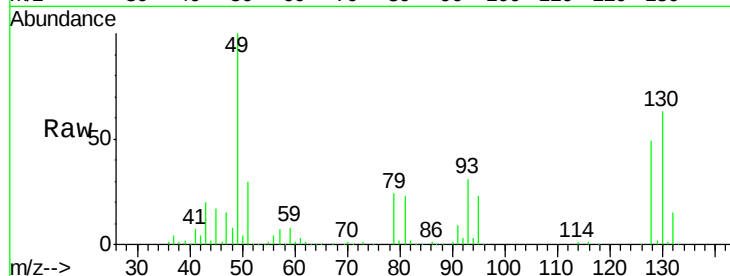
Tot Ion: 49 Resp: 651702

Ion Ratio Lower Upper

49 100

128 51.2 25.4 76.0

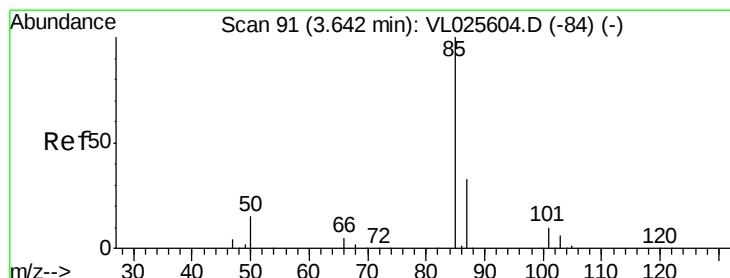
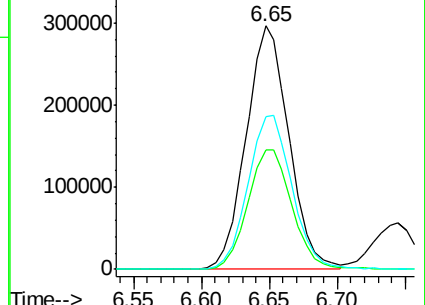
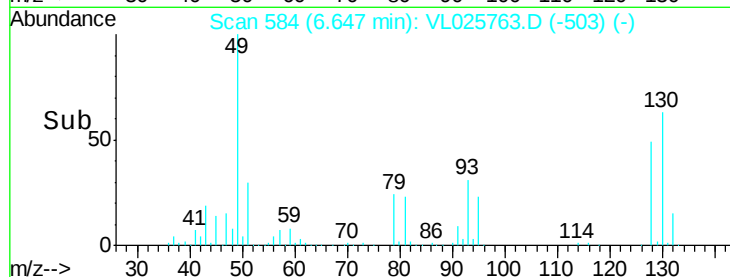
130 65.8 31.9 95.9



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: 0.32 ppbv

RT: 3.64 min Scan# 90

Delta R.T. -0.01 min

Lab File: VL025763.D

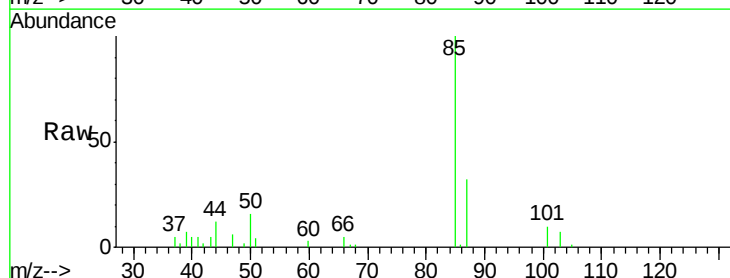
Acq: 27 Jul 2015 21:38

Tgt Ion: 85 Resp: 53271

Ion Ratio Lower Upper

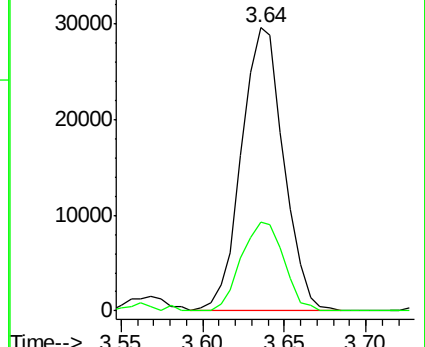
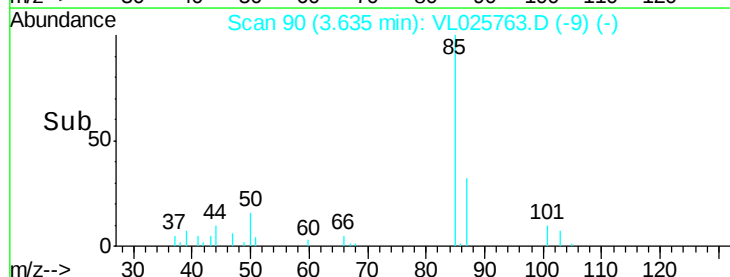
85 100

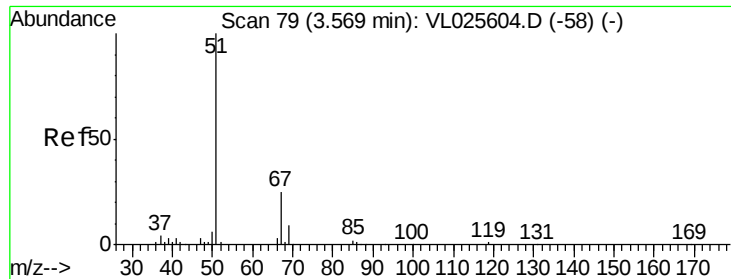
87 31.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.81 ppbv

RT: 3.54 min Scan# 74

Delta R.T. -0.03 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

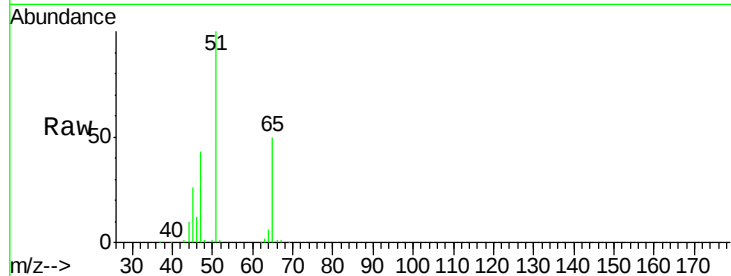
IA-1

Tot Ion: 51 Resp: 901406

Ion Ratio Lower Upper

51 100

67 5.6 19.5 29.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.54

400000

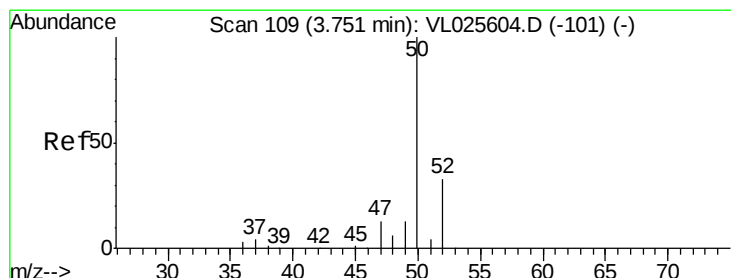
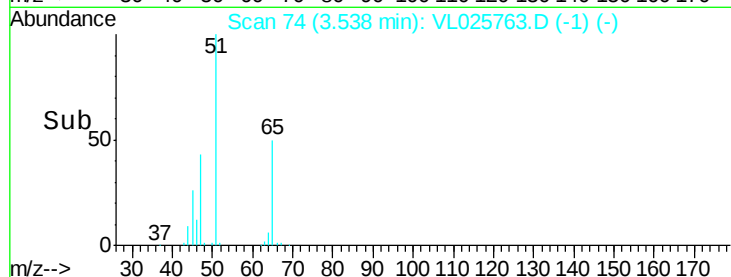
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 0.81 ppbv

RT: 3.75 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL025763.D

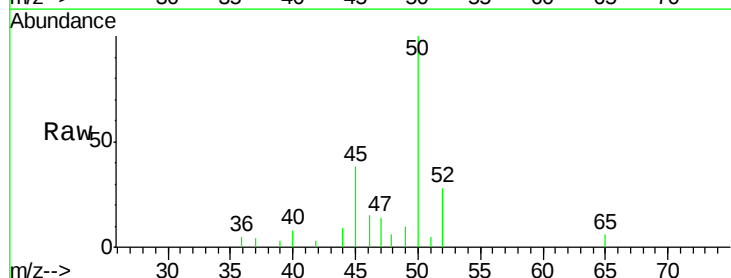
Acq: 27 Jul 2015 21:38

Tgt Ion: 50 Resp: 33900

Ion Ratio Lower Upper

50 100

52 28.1 26.2 39.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.75

20000

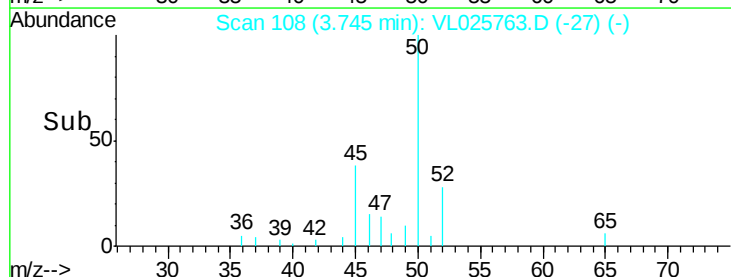
15000

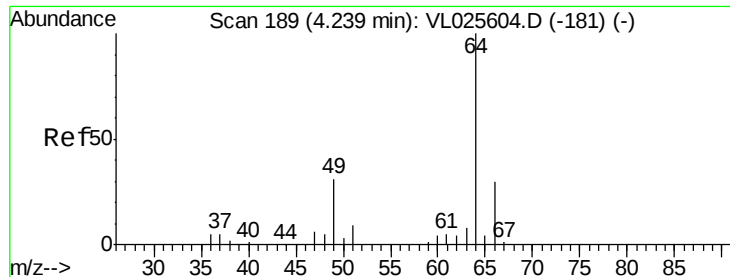
10000

5000

0

Time-->





#7

Chloroethane

Concen: 0.06 ppbv

RT: 4.23 min Scan# 188

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

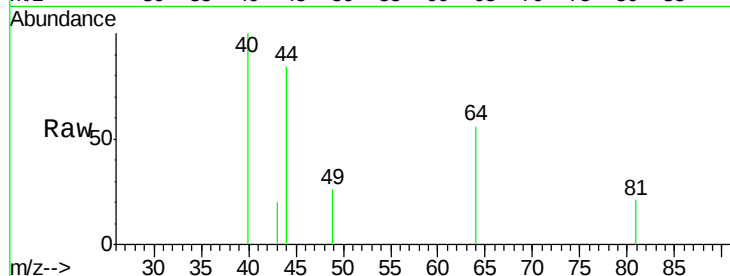
IA-1

Tot Ion: 64 Resp: 1339

Ion Ratio Lower Upper

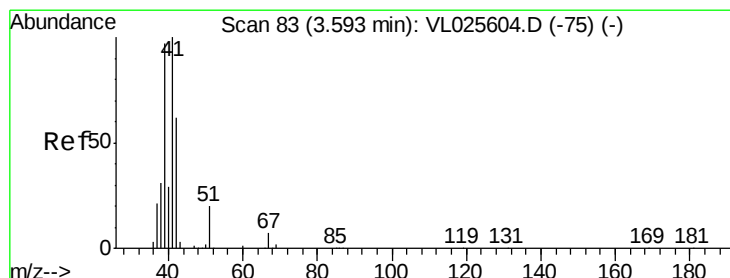
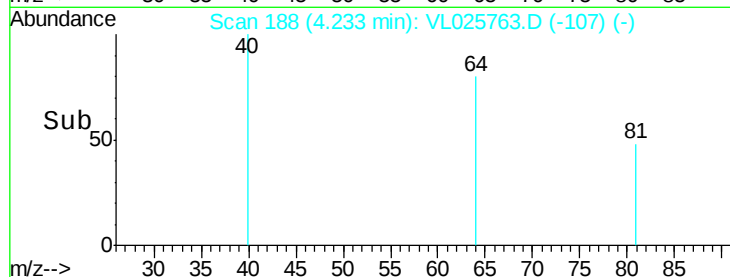
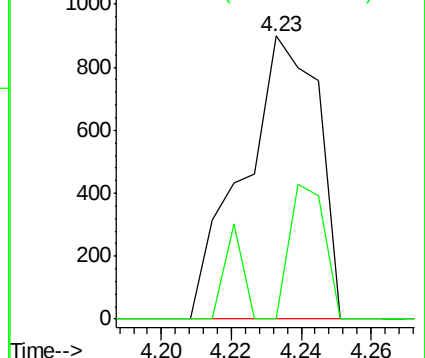
64 100

66 0.0 23.8 35.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 7.11 ppbv

RT: 3.82 min Scan# 120

Delta R.T. 0.23 min

Lab File: VL025763.D

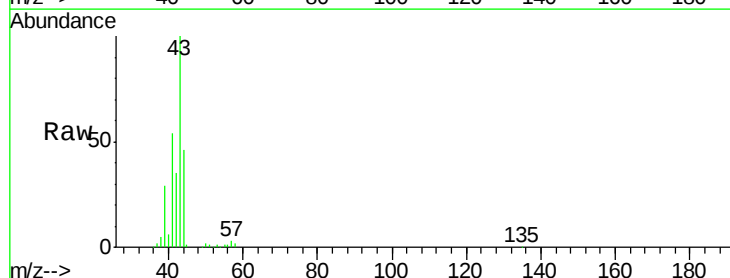
Acq: 27 Jul 2015 21:38

Tgt Ion: 41 Resp: 216976

Ion Ratio Lower Upper

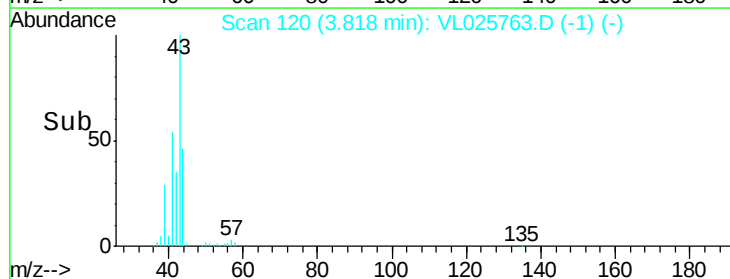
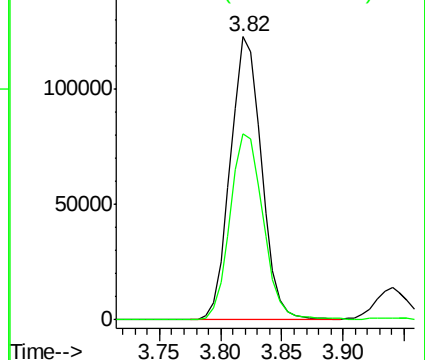
41 100

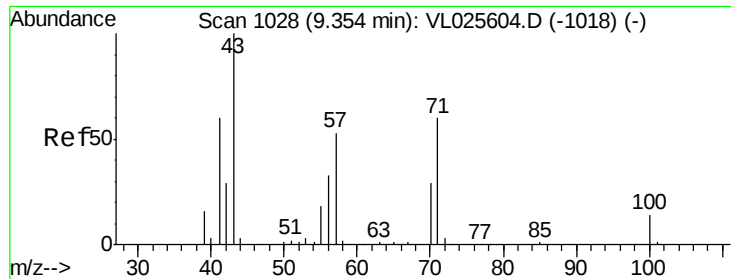
42 70.6 52.4 78.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 2.15 ppbv

RT: 9.35 min Scan# 1027

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

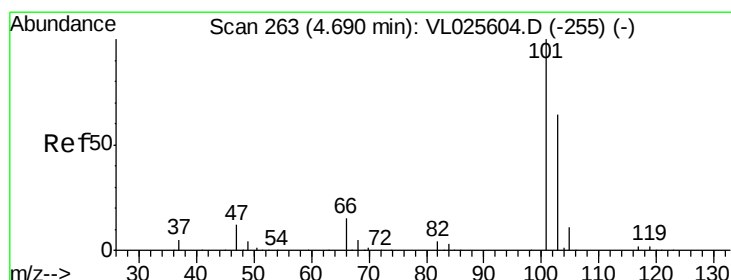
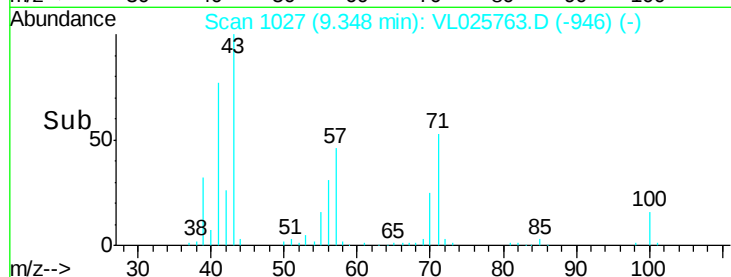
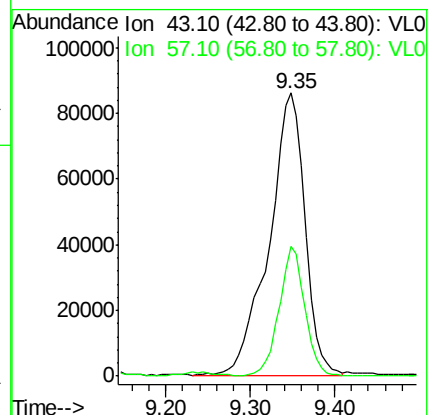
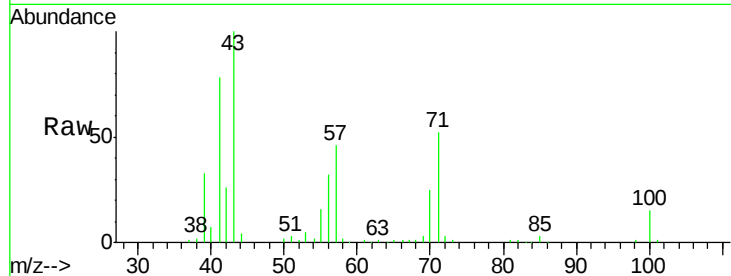
IA-1

Tot Ion: 43 Resp: 255233

Ion Ratio Lower Upper

43 100

57 32.8 42.6 64.0#



#11

Trichlorofluoromethane

Concen: 0.20 ppbv

RT: 4.69 min Scan# 263

Delta R.T. -0.00 min

Lab File: VL025763.D

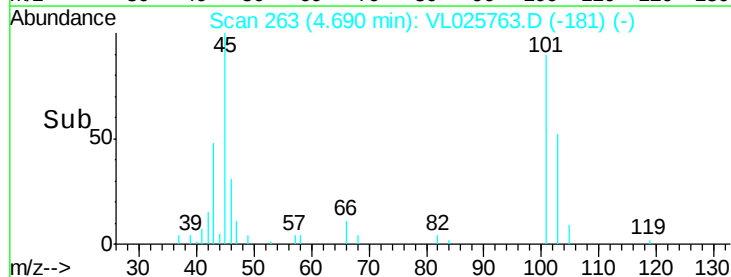
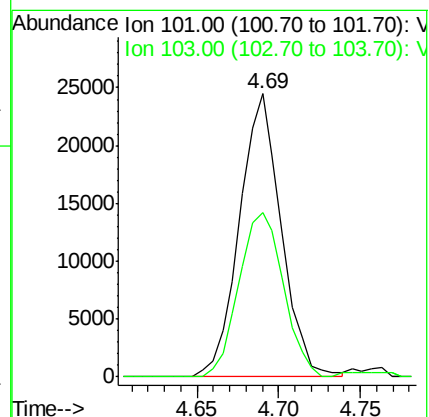
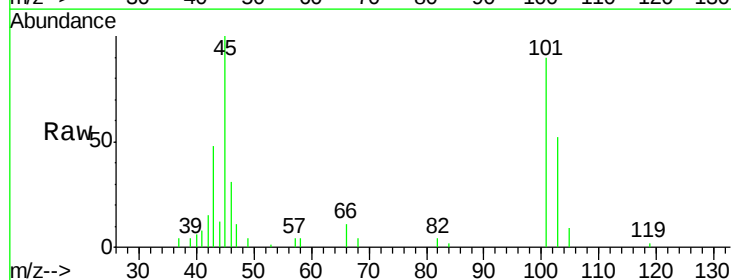
Acq: 27 Jul 2015 21:38

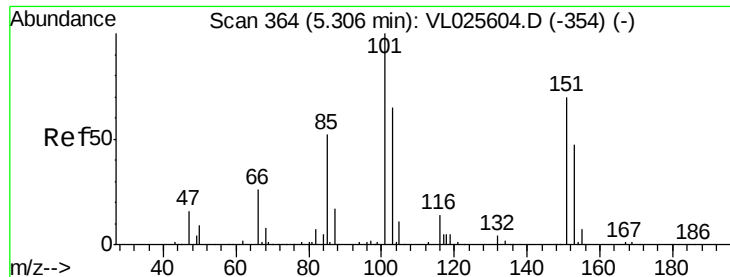
Tgt Ion:101 Resp: 43629

Ion Ratio Lower Upper

101 100

103 57.9 51.4 77.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.06 ppbv

RT: 5.30 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

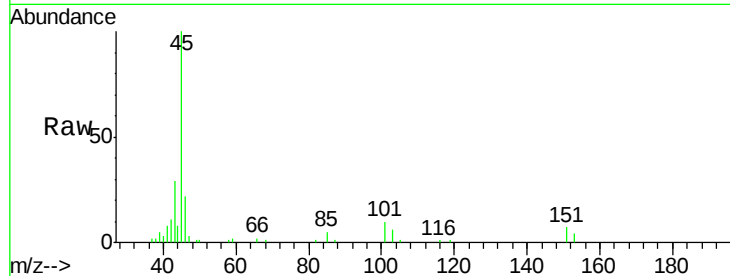
IA-1

Tot Ion:101 Resp: 7791

Ion Ratio Lower Upper

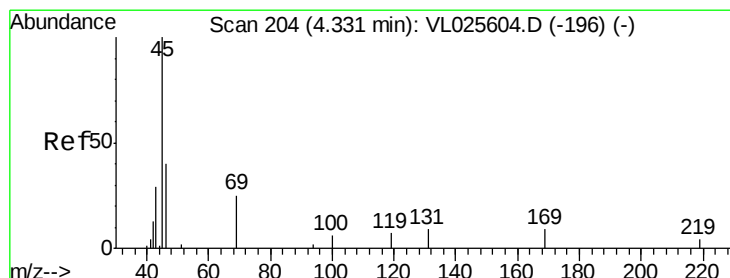
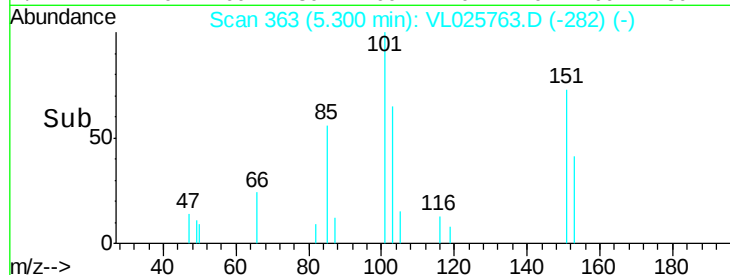
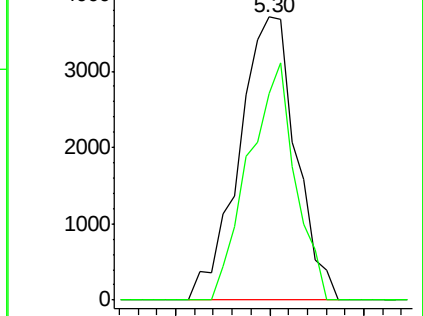
101 100

151 68.5 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 348.19 ppbv

RT: 4.32 min Scan# 203

Delta R.T. -0.01 min

Lab File: VL025763.D

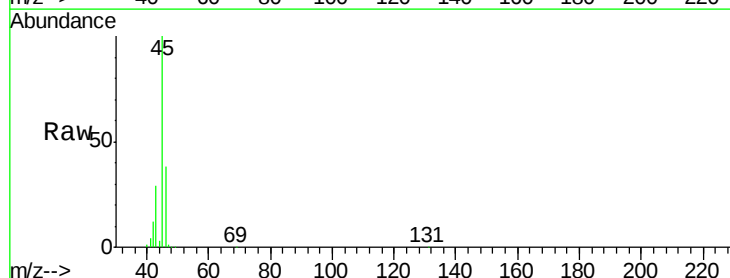
Acq: 27 Jul 2015 21:38

Tgt Ion: 45 Resp: 1651864

Ion Ratio Lower Upper

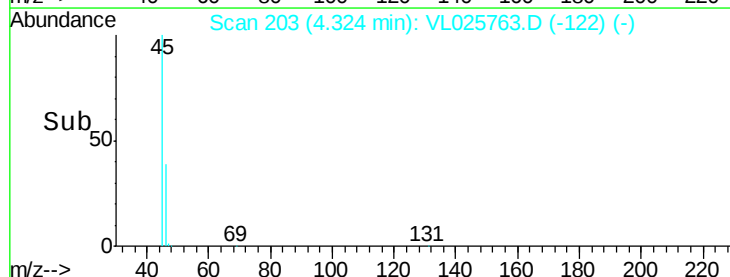
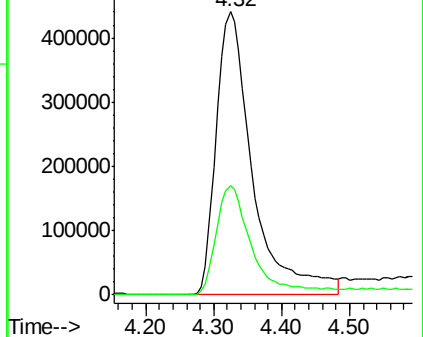
45 100

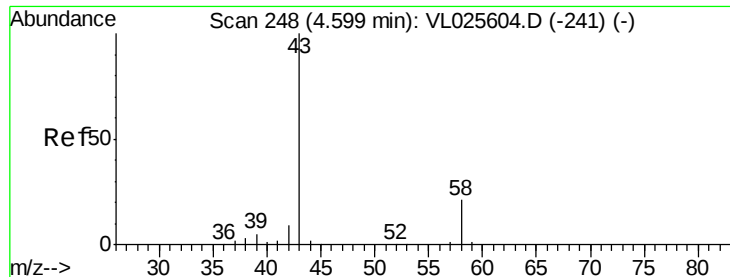
46 38.2 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 23.97 ppbv

RT: 4.59 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampled :

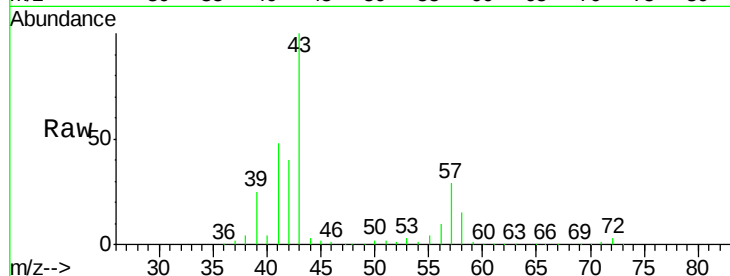
IA-1

Tot Ion: 43 Resp: 2759682

Ion Ratio Lower Upper

43 100

58 15.5 17.2 25.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.59

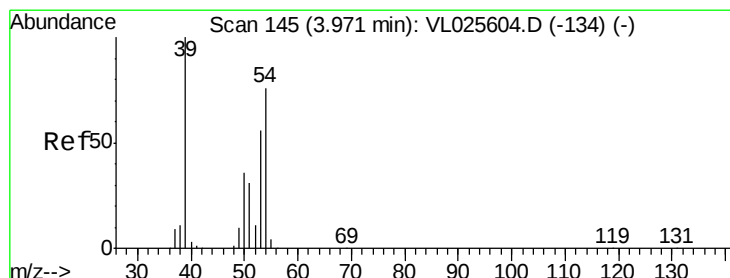
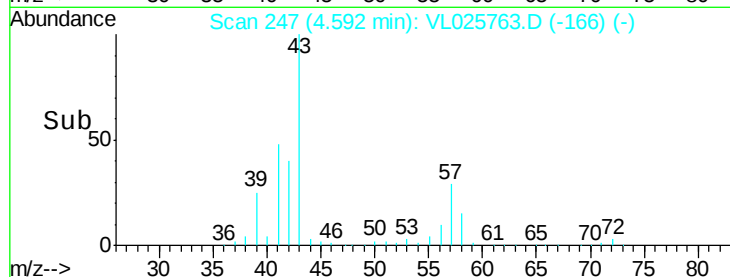
1500000

1000000

500000

0

Time-->



#16

1,3-Butadiene

Concen: 2.92 ppbv

RT: 4.00 min Scan# 149

Delta R.T. 0.02 min

Lab File: VL025763.D

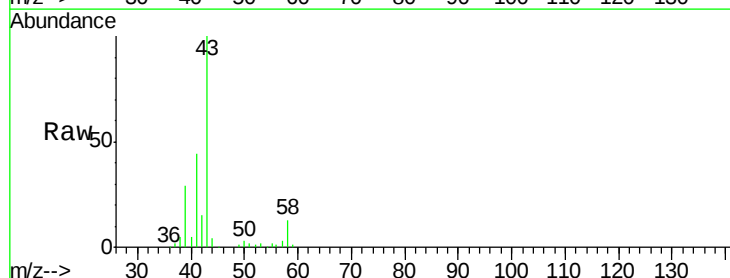
Acq: 27 Jul 2015 21:38

Tgt Ion: 39 Resp: 133736

Ion Ratio Lower Upper

39 100

54 3.0 59.3 88.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

4.00

80000

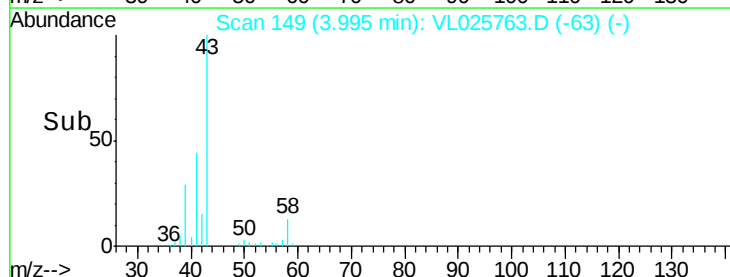
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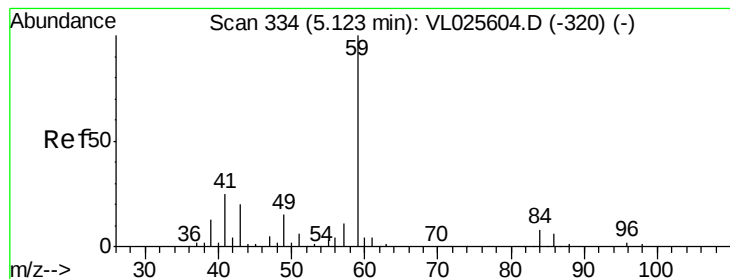
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20000

0

Time-->



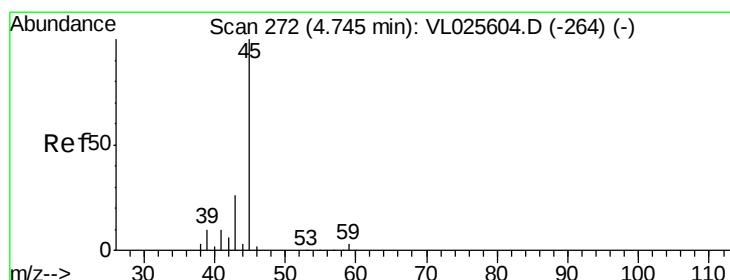
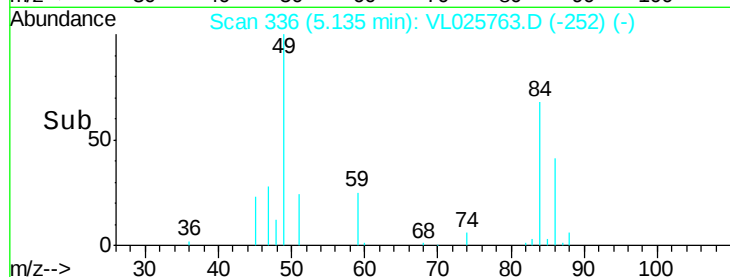
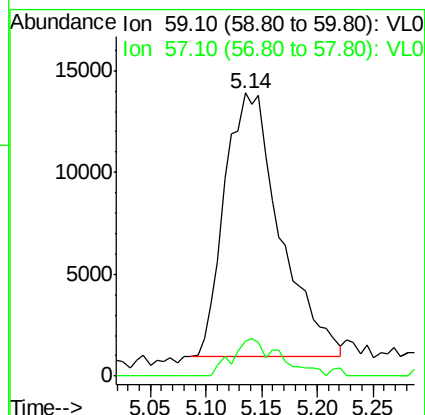
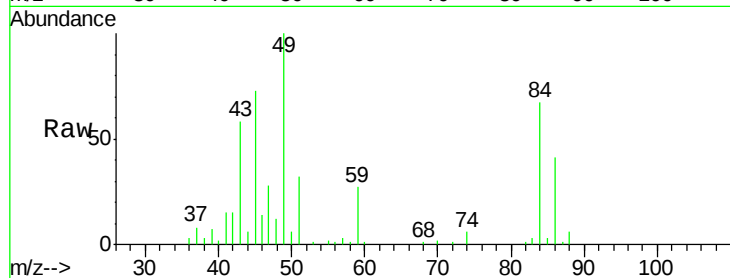


#17

tert-Butyl alcohol
 Concen: 0.46 ppbv
 RT: 5.14 min Scan# 336
 Delta R.T. 0.01 min
 Lab File: VL025763.D
 Acq: 27 Jul 2015 21:38

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

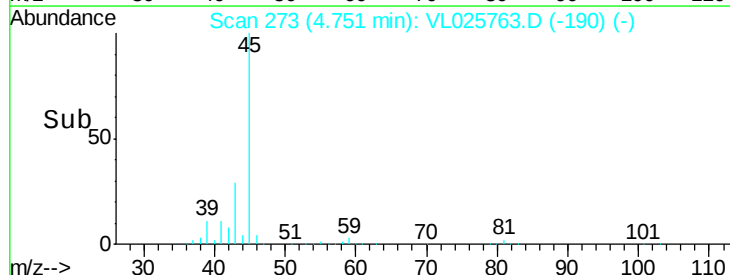
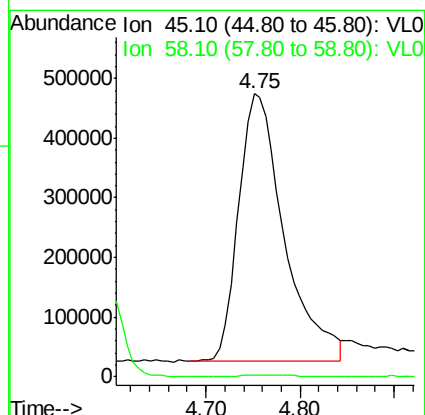
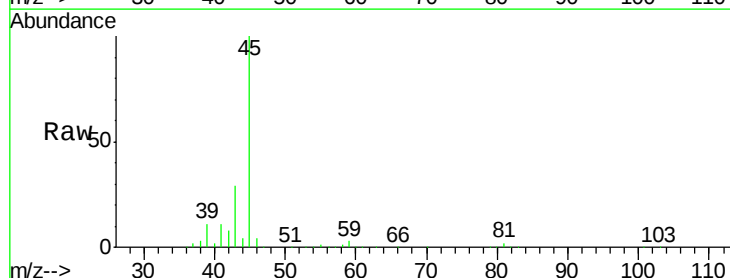
Tot Ion: 59 Resp: 44881
 Ion Ratio Lower Upper
 59 100
 57 12.7 9.4 14.2

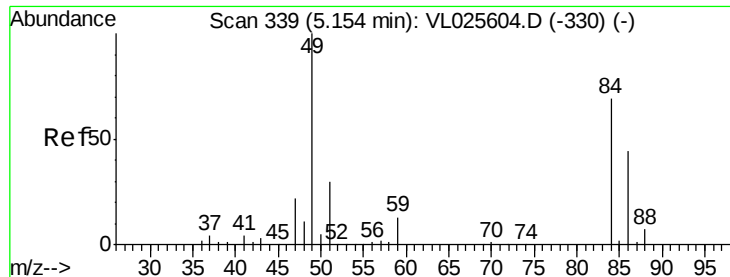


#19

Isopropyl Alcohol
 Concen: 32.92 ppbv
 RT: 4.75 min Scan# 273
 Delta R.T. 0.01 min
 Lab File: VL025763.D
 Acq: 27 Jul 2015 21:38

Tgt Ion: 45 Resp: 1512986
 Ion Ratio Lower Upper
 45 100
 58 1.1 1.1 1.7#

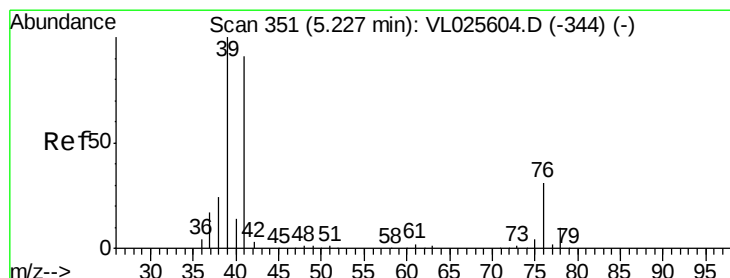
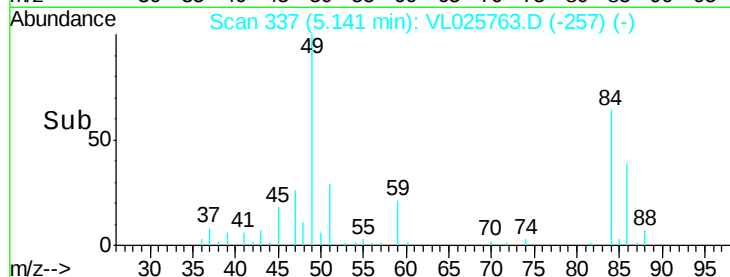
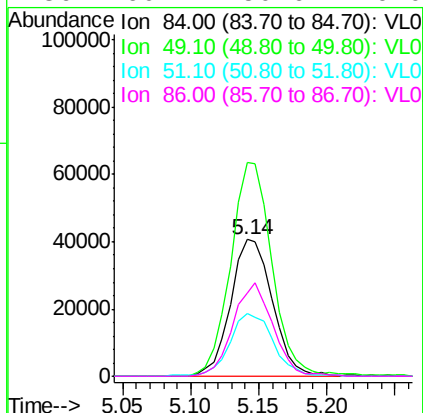
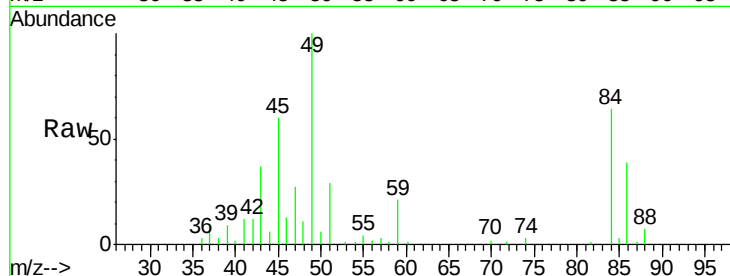




#20
Methylene Chloride
Concen: 1.87 ppbv
RT: 5.14 min Scan# 337
Delta R.T. -0.01 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

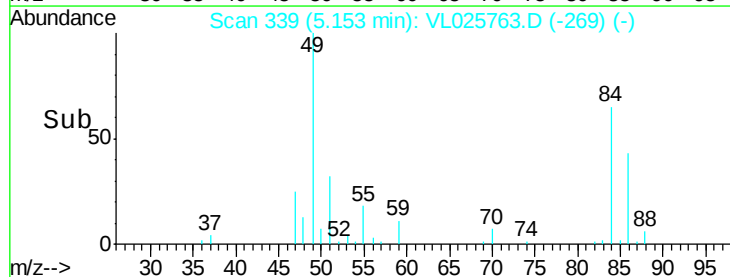
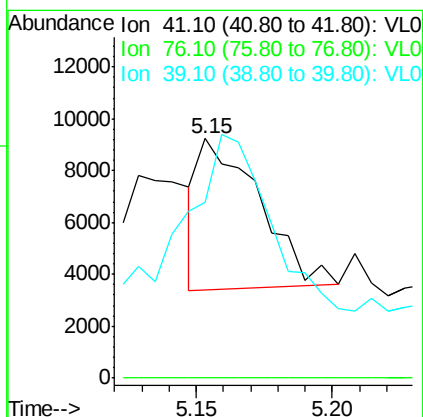
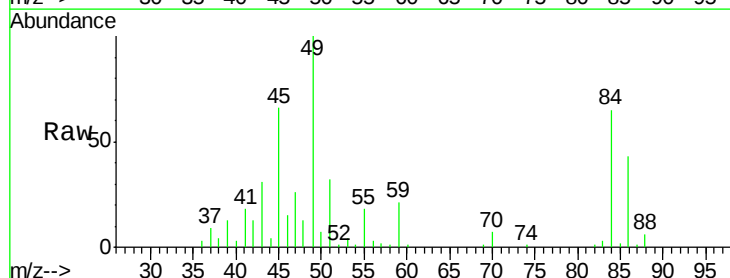
Instrument :
MSVOA_L
ClientSampleID :
IA-1

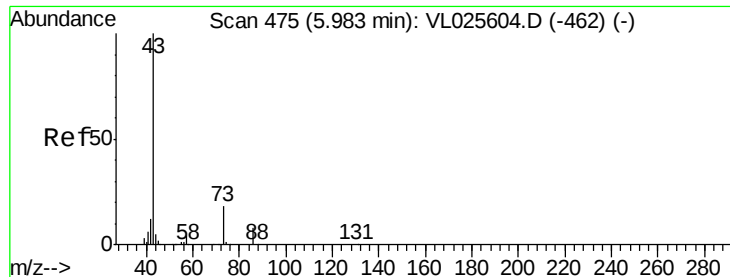
Tot Ion: 84 Resp: 87406
Ion Ratio Lower Upper
84 100
49 156.3 115.2 172.8
51 44.5 35.0 52.6
86 60.7 50.6 76.0



#21
Allyl Chloride
Concen: 0.13 ppbv
RT: 5.15 min Scan# 339
Delta R.T. -0.07 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

Tgt Ion: 41 Resp: 9022
Ion Ratio Lower Upper
41 100
76 0.0 26.6 40.0#
39 374.1 88.2 132.4#





#23

Vinyl Acetate

Concen: 0.73 ppbv

RT: 5.99 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 43 Resp: 127783

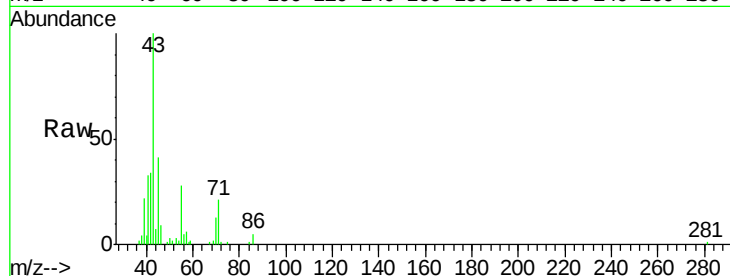
Ion Ratio Lower Upper

43 100

86 6.3 6.7 10.1#

42 33.0 9.8 14.6#

44 2.0 4.1 6.1#

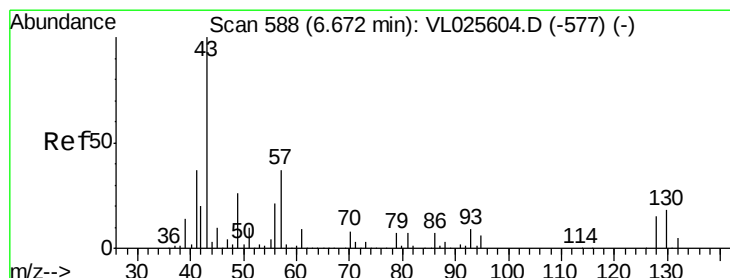
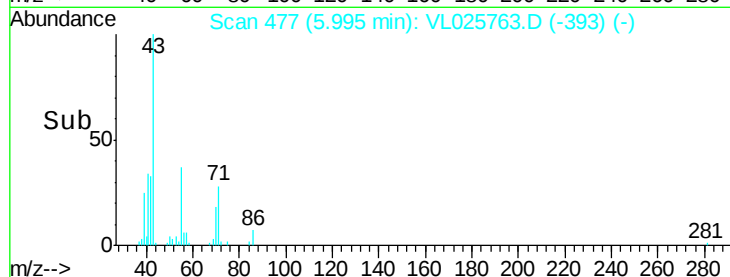
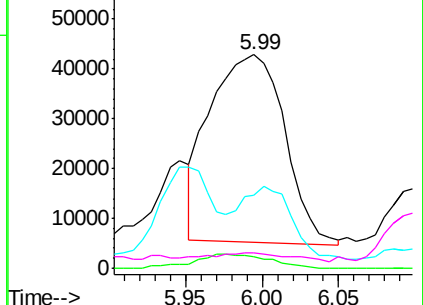


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 1.62 ppbv

RT: 6.67 min Scan# 587

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Tgt Ion: 43 Resp: 282827

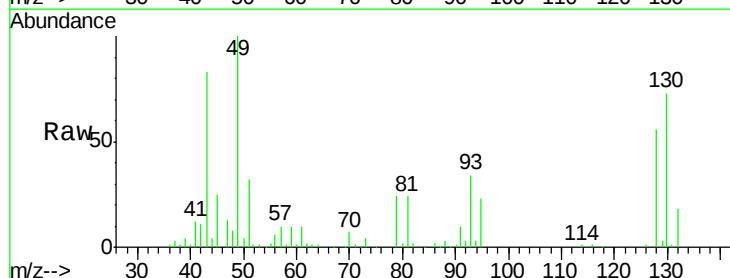
Ion Ratio Lower Upper

43 100

45 46.3 7.5 11.3#

61 11.9 6.6 10.0#

70 8.9 6.0 9.0

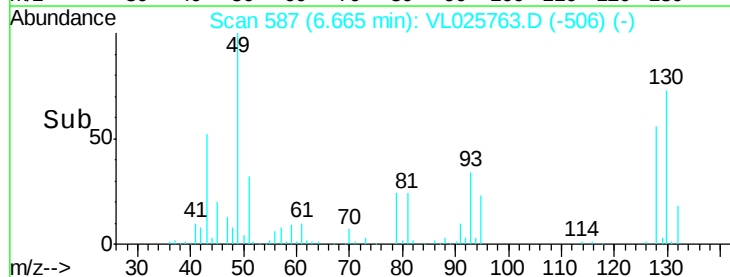
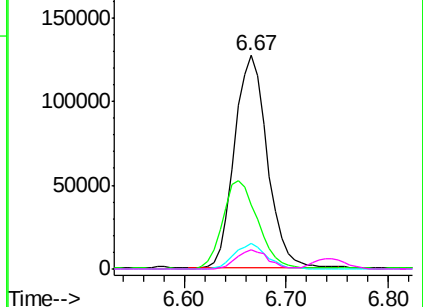


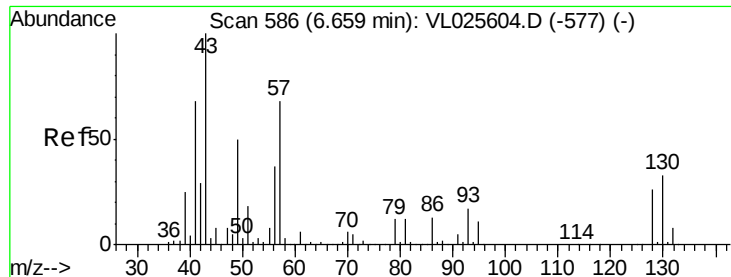
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.58 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 57 Resp: 47267

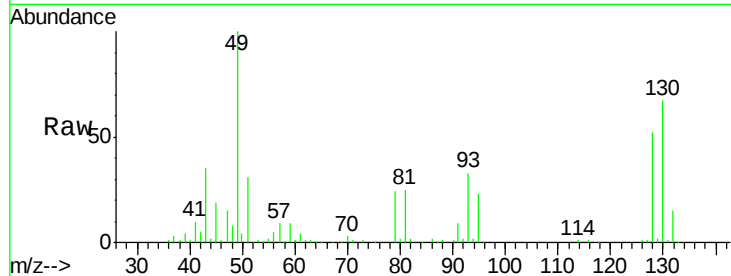
Ion Ratio Lower Upper

57 100

41 113.7 81.4 122.2

43 629.2 171.4 257.2#

56 60.1 44.5 66.7

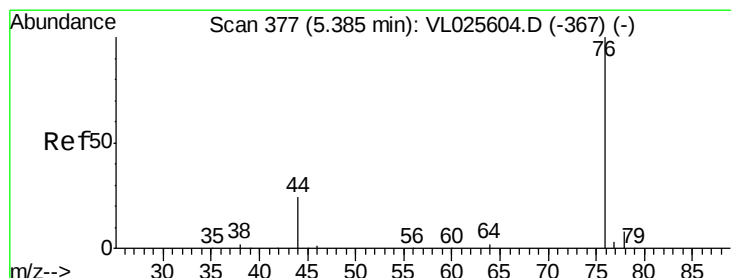
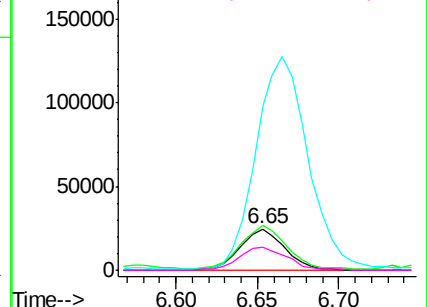
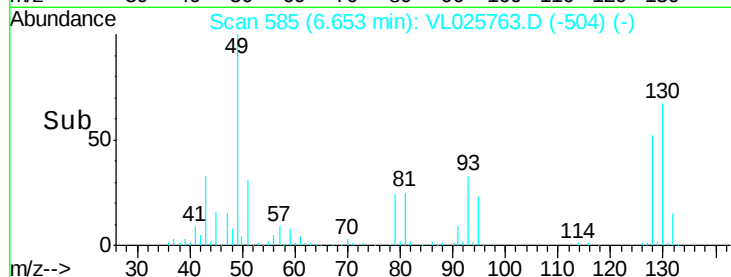


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.13 ppbv

RT: 5.38 min Scan# 377

Delta R.T. -0.00 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

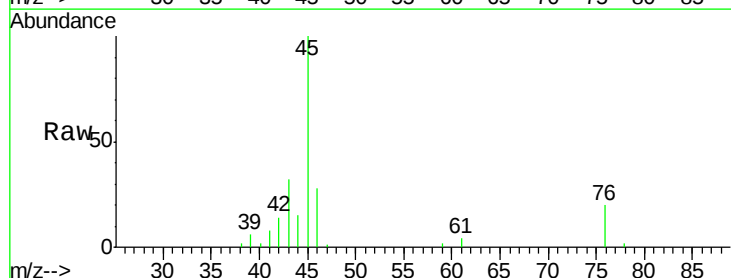
Tgt Ion: 76 Resp: 17454

Ion Ratio Lower Upper

76 100

44 60.1 20.2 30.4#

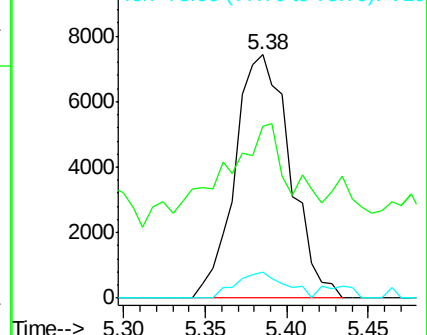
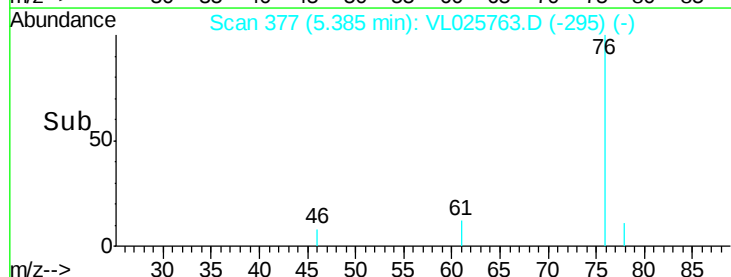
78 13.0 7.4 11.2#

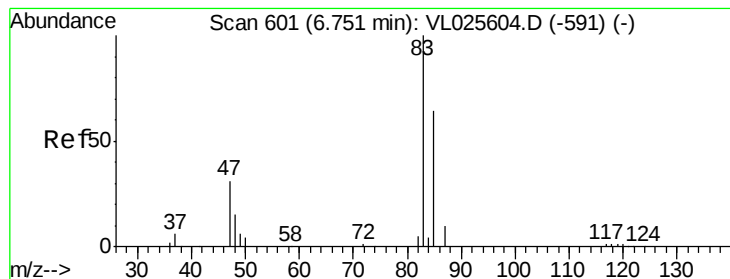


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 7.04 ppbv

RT: 6.74 min Scan# 600

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

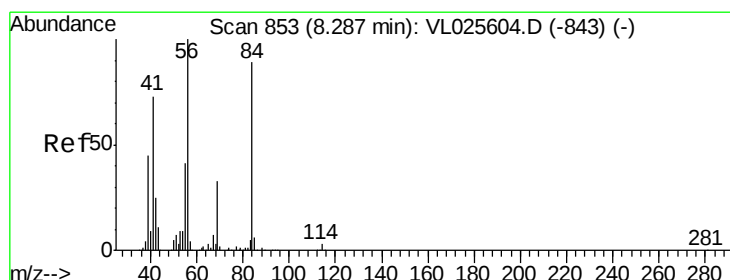
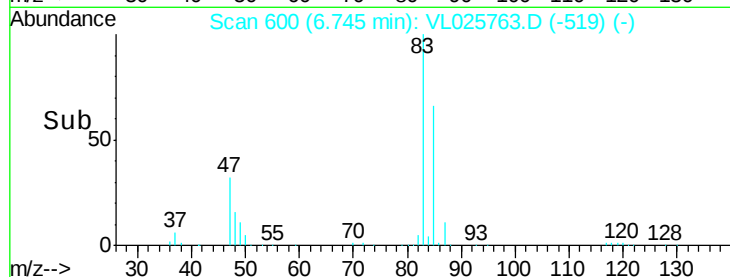
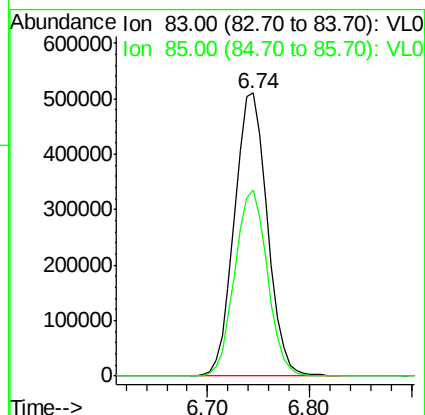
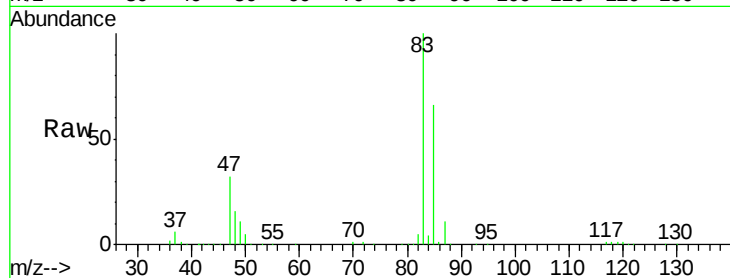
IA-1

Tot Ion: 83 Resp: 1139981

Ion Ratio Lower Upper

83 100

85 65.8 51.6 77.4



#30

Cyclohexane

Concen: 1.10 ppbv

RT: 8.28 min Scan# 852

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

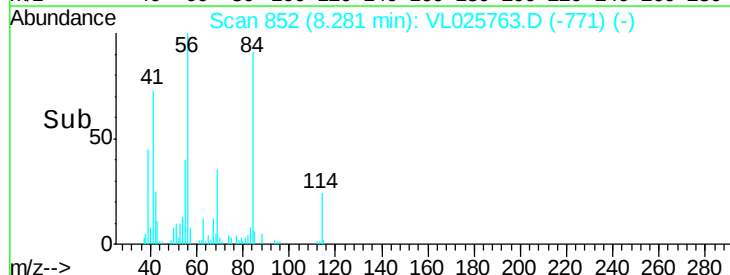
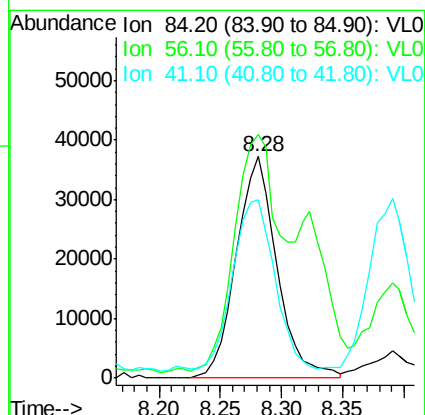
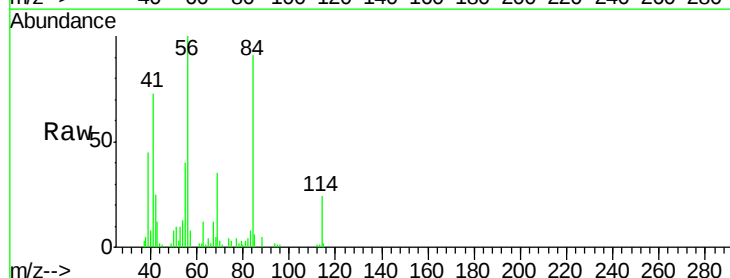
Tgt Ion: 84 Resp: 86011

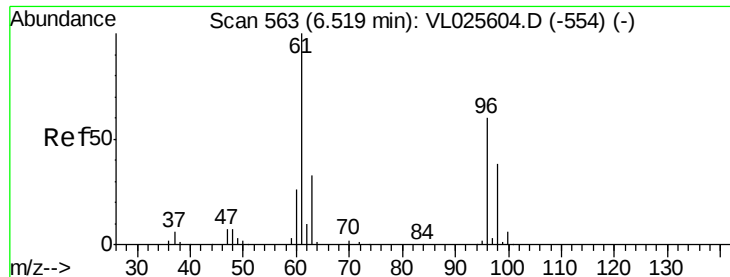
Ion Ratio Lower Upper

84 100

56 186.2 97.5 146.3#

41 86.2 65.4 98.2





#31

cis-1,2-Dichloroethene

Concen: 0.41 ppbv

RT: 6.67 min Scan# 587

Delta R.T. 0.15 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-1

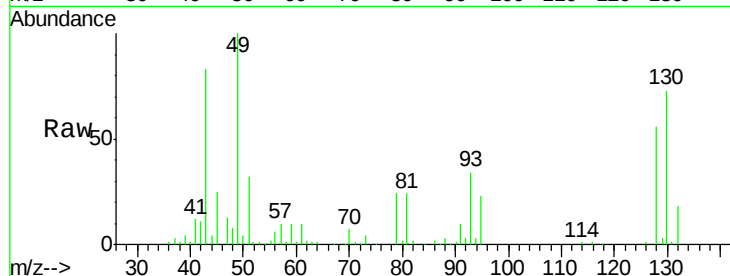
Tot Ion: 61 Resp: 33477

Ion Ratio Lower Upper

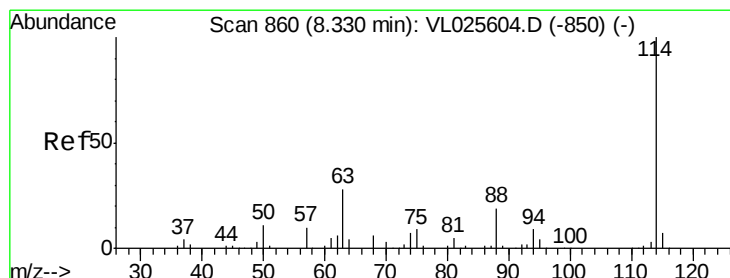
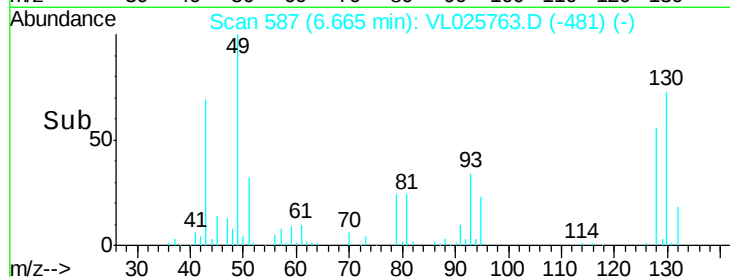
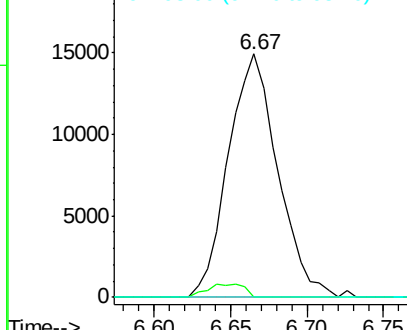
61 100

96 0.0 48.1 72.1#

98 0.0 30.7 46.1#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.32 min Scan# 859

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

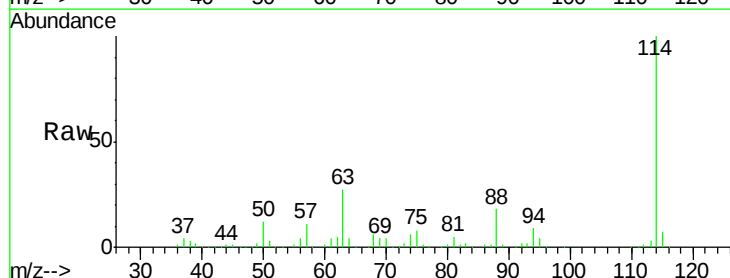
Tgt Ion: 114 Resp: 1758243

Ion Ratio Lower Upper

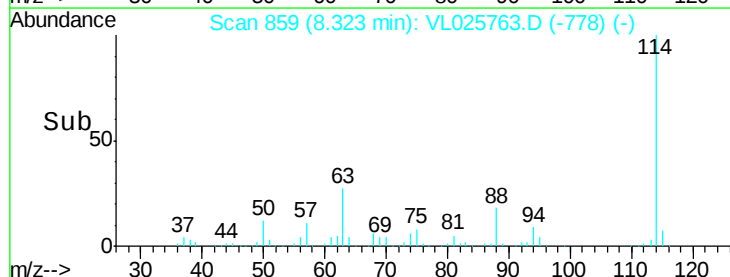
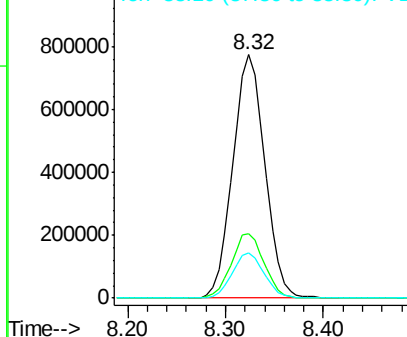
114 100

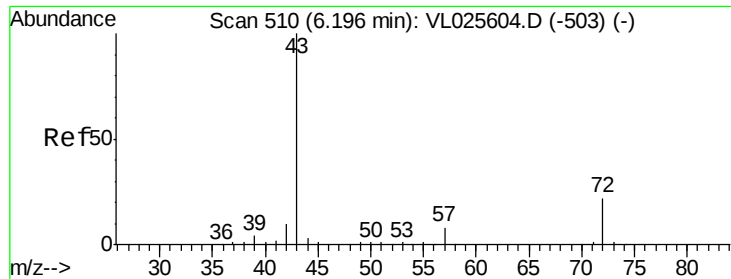
63 27.1 22.4 33.6

88 18.3 15.0 22.4



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





#34

2-Butanone

Concen: 4.40 ppbv

RT: 6.19 min Scan# 509

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

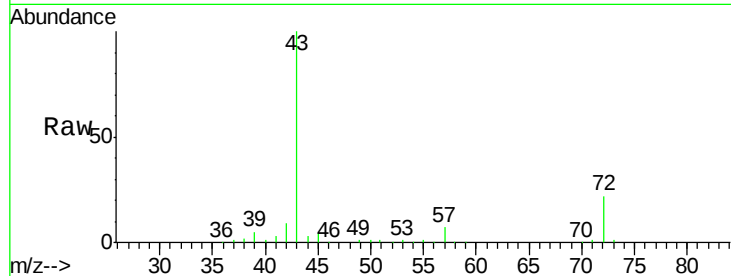
IA-1

Tot Ion: 43 Resp: 438901

Ion Ratio Lower Upper

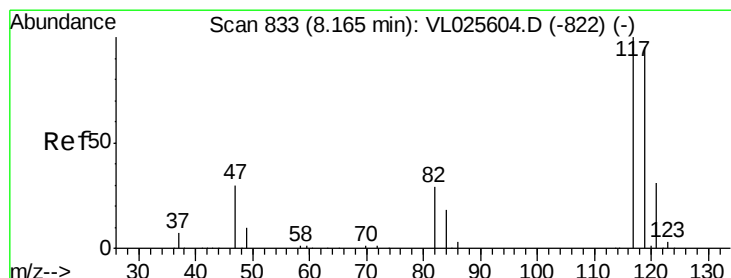
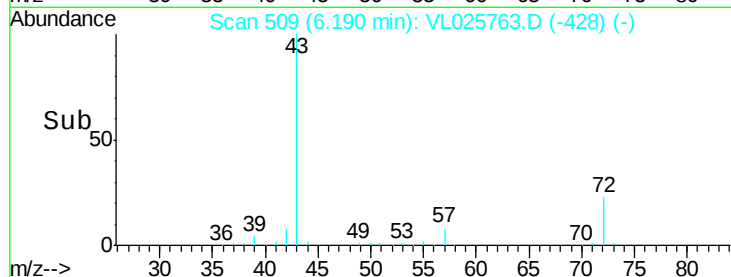
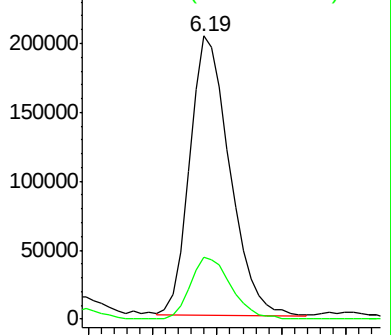
43 100

72 22.9 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.10 ppbv

RT: 8.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

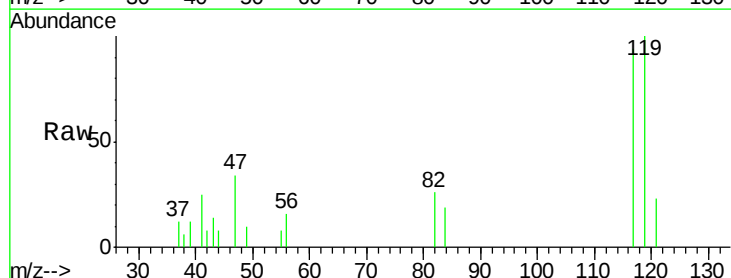
Tgt Ion: 117 Resp: 18590

Ion Ratio Lower Upper

117 100

119 106.5 75.9 113.9

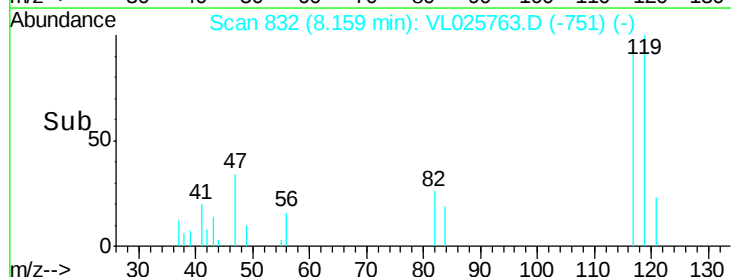
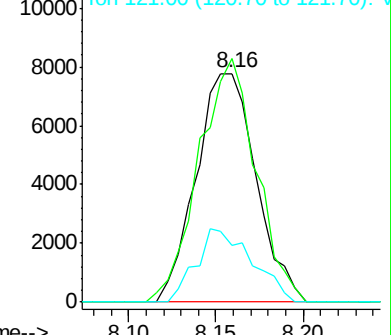
121 24.9 24.4 36.6

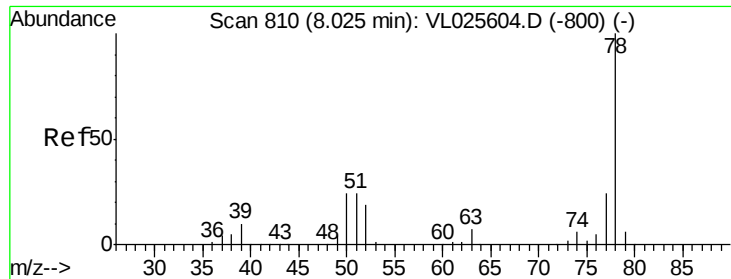


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

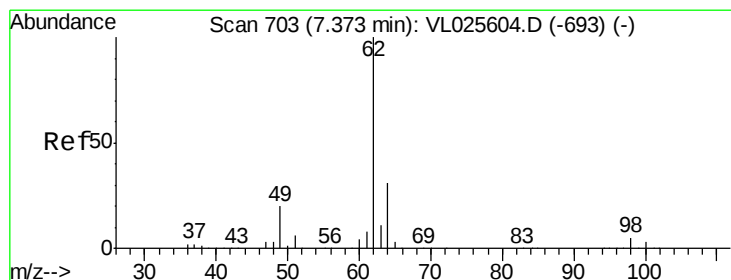
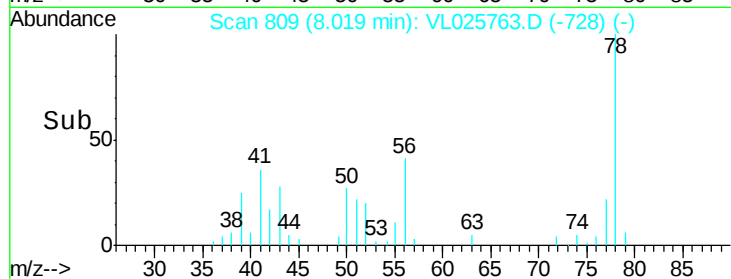
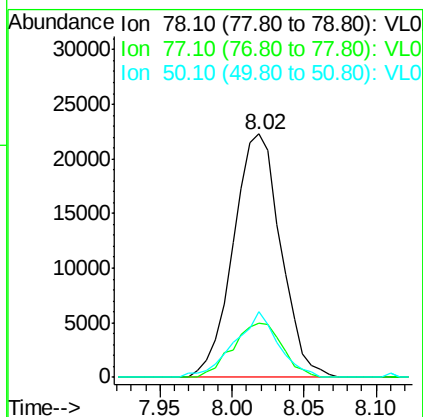
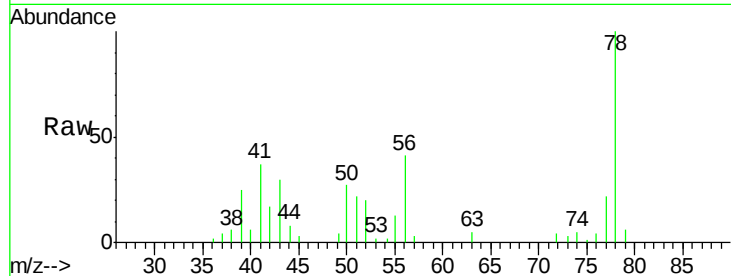




#36
Benzene
Concen: 0.30 ppbv
RT: 8.02 min Scan# 809
Delta R.T. -0.01 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

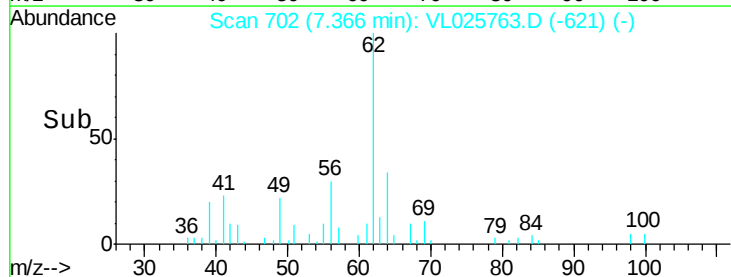
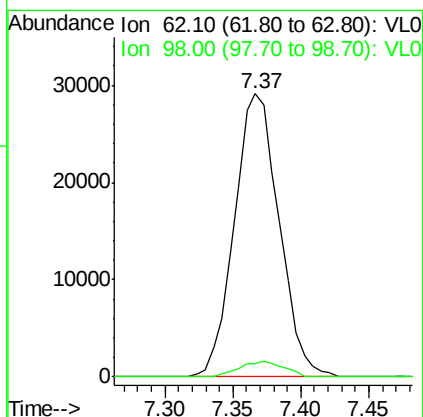
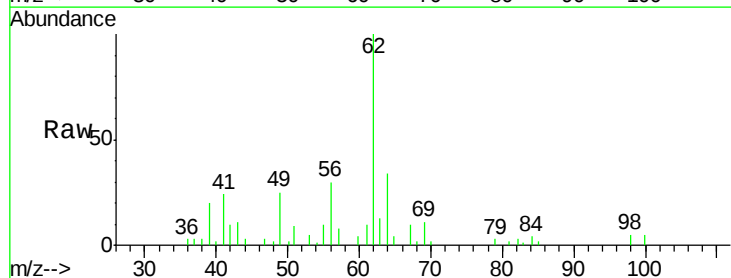
Instrument :
MSVOA_L
ClientSampled :
IA-1

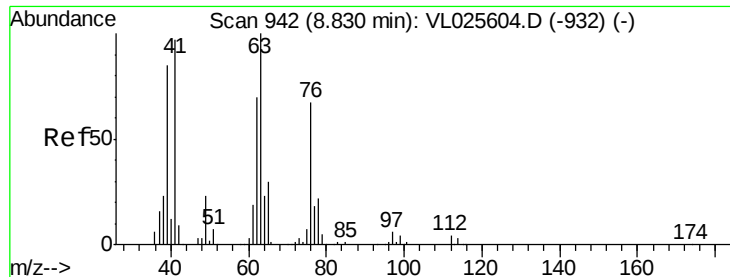
Tot Ion: 78 Resp: 50988
Ion Ratio Lower Upper
78 100
77 22.0 19.0 28.4
50 26.8 19.2 28.8



#37
1,2-Dichloroethane
Concen: 0.47 ppbv
RT: 7.37 min Scan# 702
Delta R.T. -0.01 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

Tgt Ion: 62 Resp: 66864
Ion Ratio Lower Upper
62 100
98 5.5 4.1 6.1

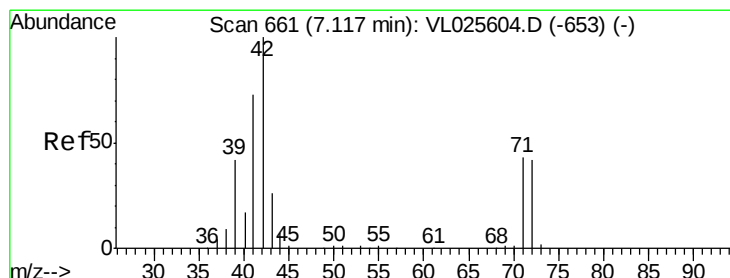
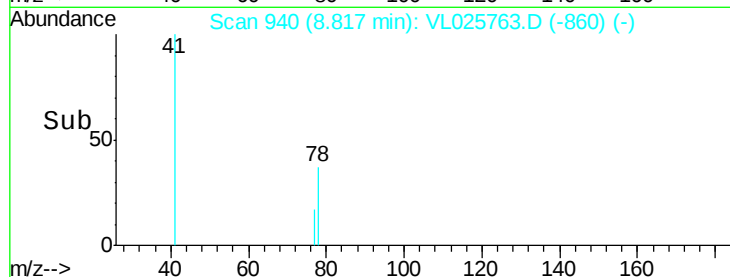
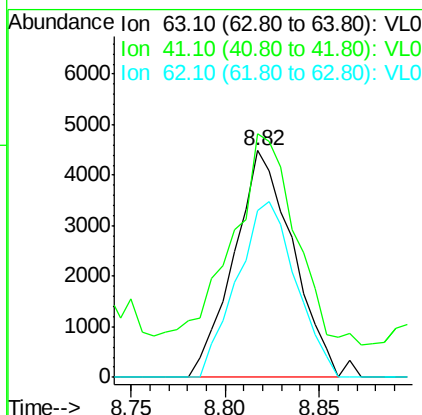
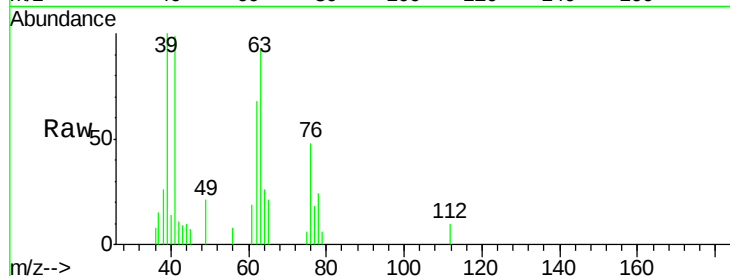




#39
 1,2-Dichloropropane
 Concen: 0.16 ppbv
 RT: 8.82 min Scan# 940
 Delta R.T. -0.01 min
 Lab File: VL025763.D
 Acq: 27 Jul 2015 21:38

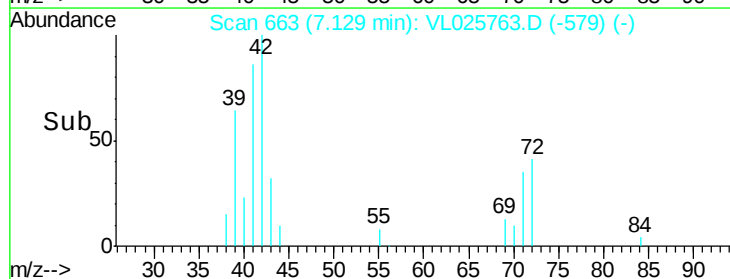
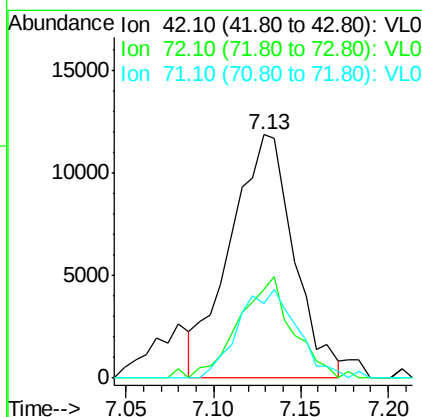
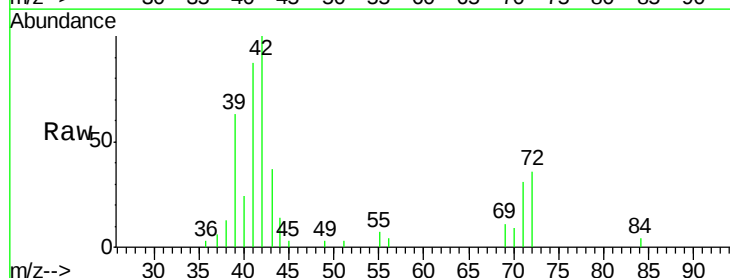
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

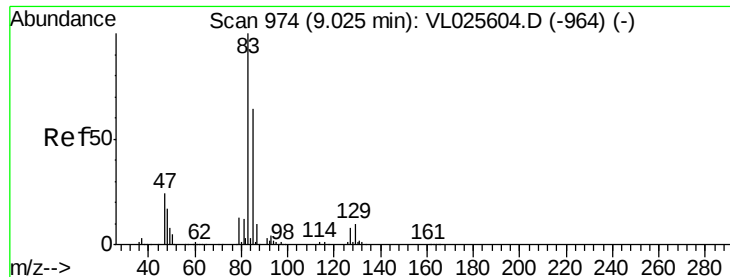
Tot Ion: 63 Resp: 9687
 Ion Ratio Lower Upper
 63 100
 41 90.0 78.0 117.0
 62 73.6 55.7 83.5



#41
 Tetrahydrofuran
 Concen: 0.60 ppbv
 RT: 7.13 min Scan# 663
 Delta R.T. 0.01 min
 Lab File: VL025763.D
 Acq: 27 Jul 2015 21:38

Tgt Ion: 42 Resp: 30083
 Ion Ratio Lower Upper
 42 100
 72 35.7 34.0 51.0
 71 34.2 33.0 49.6





#42

Bromodichloromethane

Concen: 0.17 ppbv

RT: 9.02 min Scan# 974

Delta R.T. -0.00 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-1

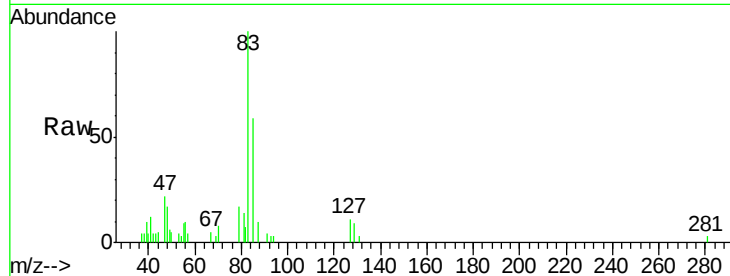
Tot Ion: 83 Resp: 28773

Ion Ratio Lower Upper

83 100

85 58.7 51.3 76.9

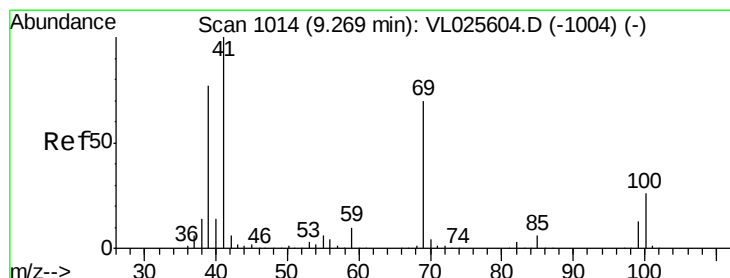
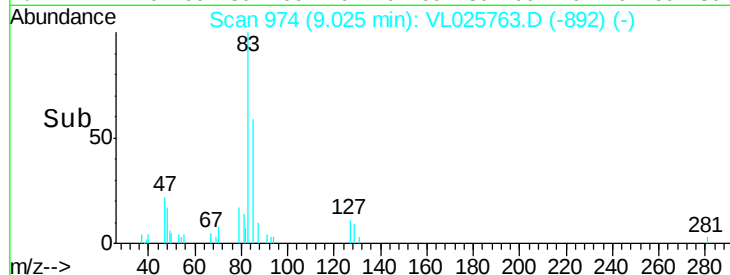
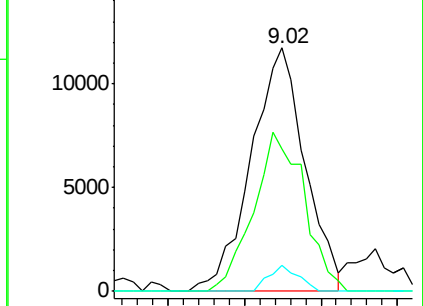
127 10.7 6.0 9.0#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.36 ppbv

RT: 9.26 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

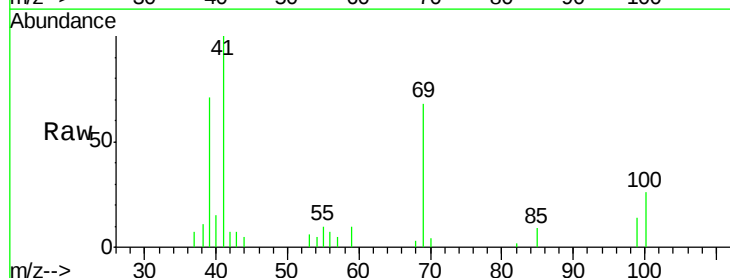
Tgt Ion: 69 Resp: 22985

Ion Ratio Lower Upper

69 100

41 157.2 117.3 175.9

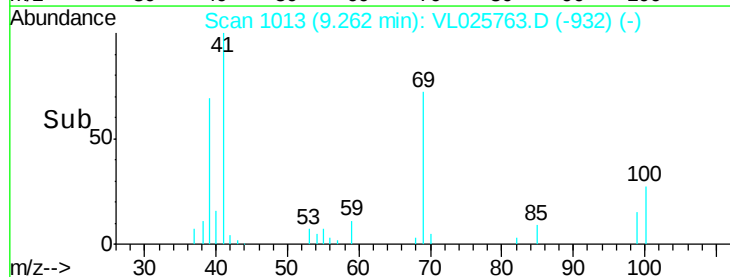
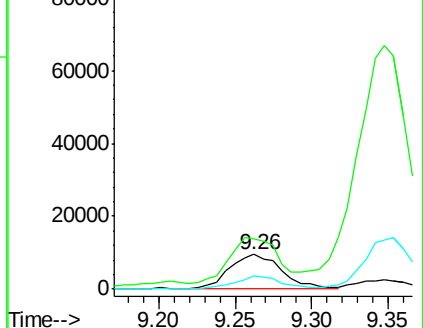
100 31.9 29.0 43.6

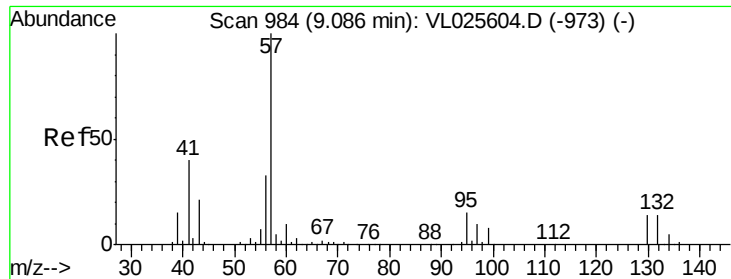


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.39 ppbv

RT: 9.08 min Scan# 983

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-1

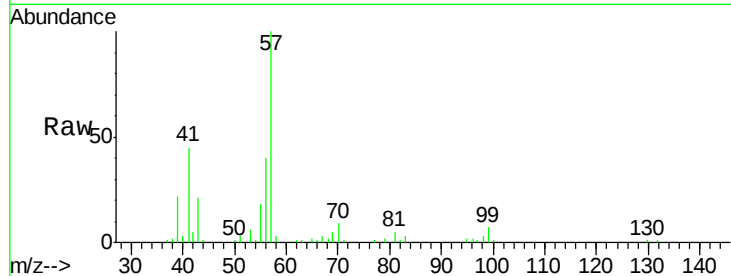
Tot Ion: 57 Resp: 114020

Ion Ratio Lower Upper

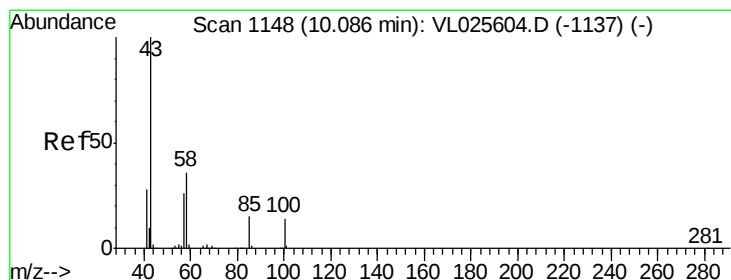
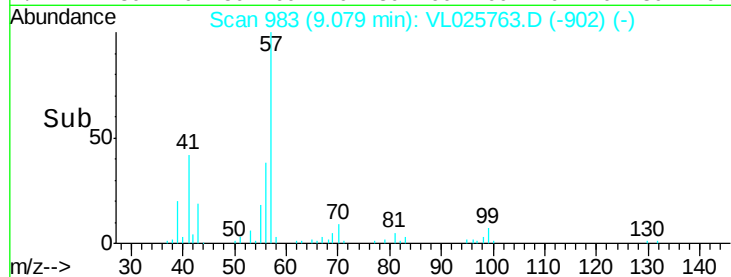
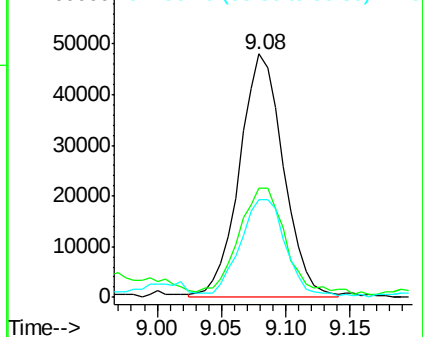
57 100

41 46.2 31.2 46.8

56 50.0 25.4 38.2#



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



#50

4-Methyl-2-Pentanone

Concen: 0.30 ppbv

RT: 10.09 min Scan# 1149

Delta R.T. 0.01 min

Lab File: VL025763.D

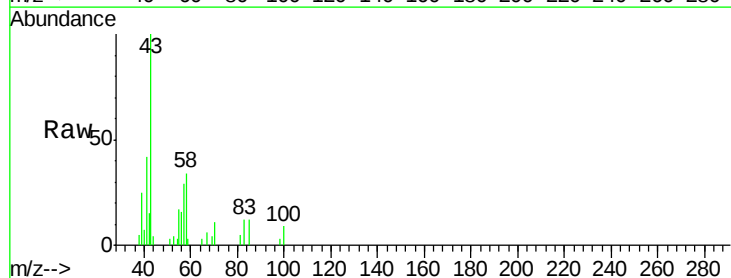
Acq: 27 Jul 2015 21:38

Tgt Ion: 43 Resp: 43171

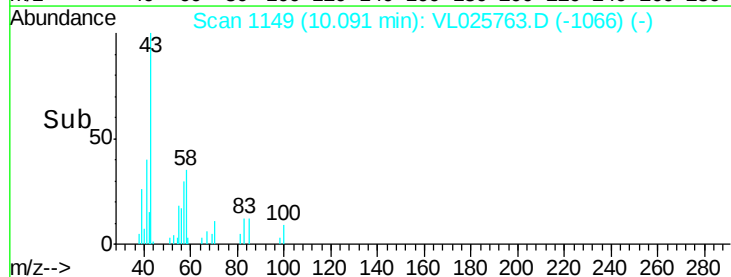
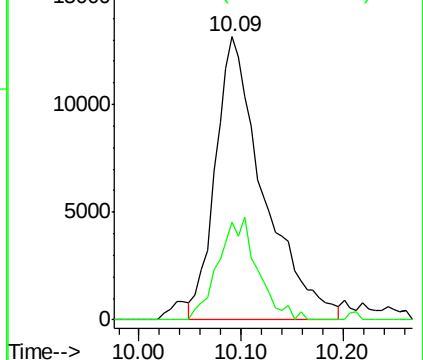
Ion Ratio Lower Upper

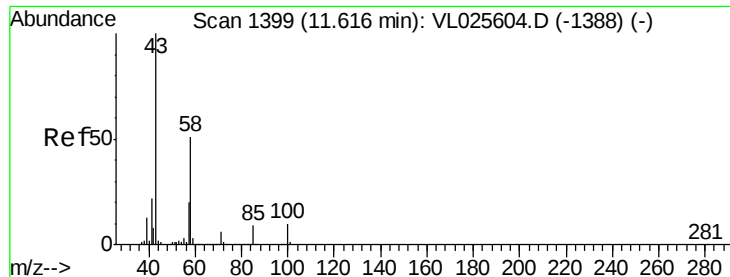
43 100

58 29.2 28.5 42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

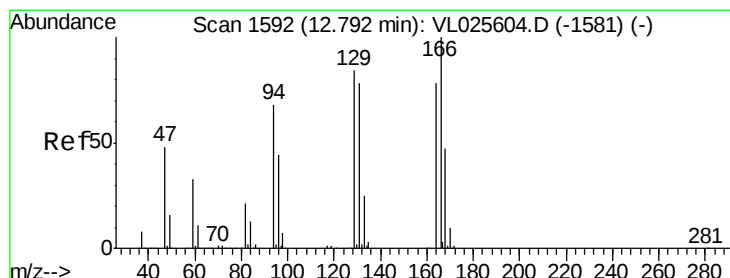
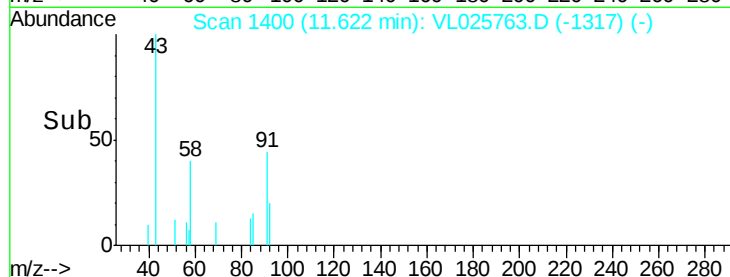
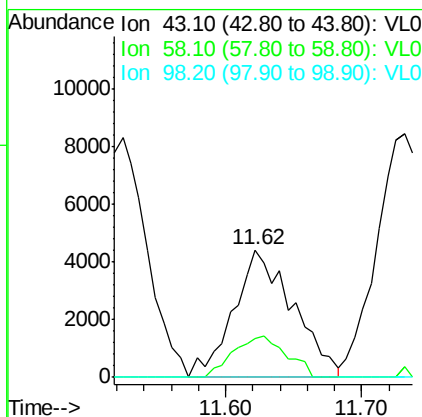
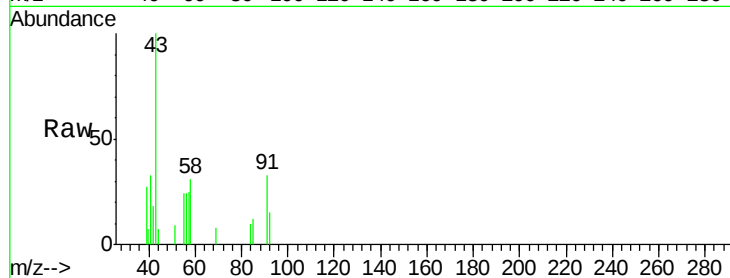




#51
2-Hexanone
Concen: 0.10 ppbv
RT: 11.62 min Scan# 1400
Delta R.T. 0.01 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

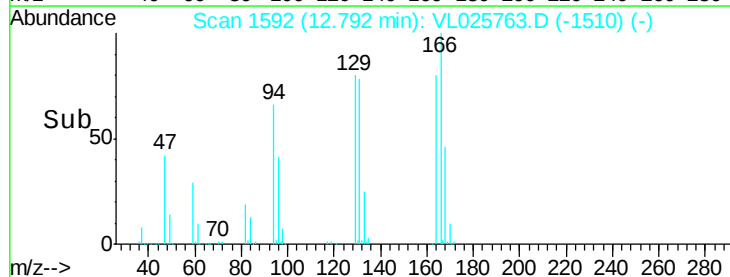
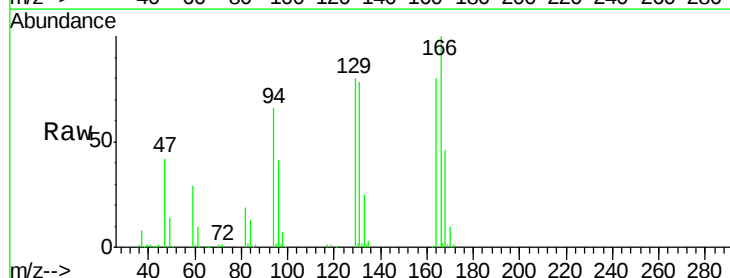
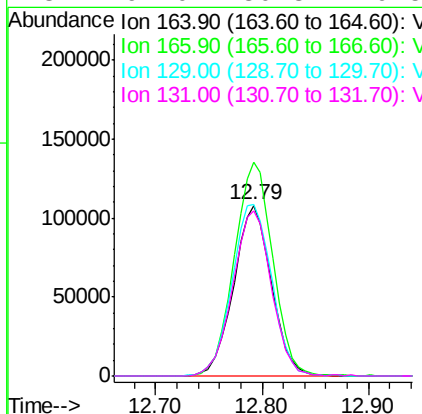
Instrument :
MSVOA_L
ClientSampled :
IA-1

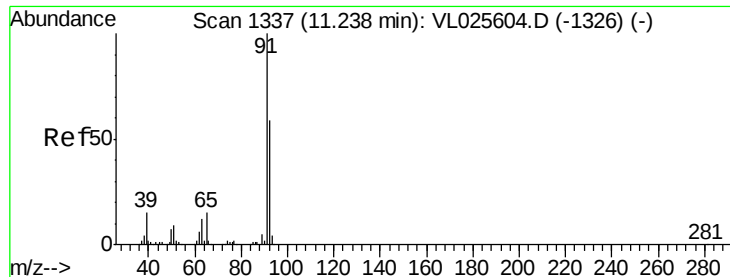
Tot Ion: 43 Resp: 13484
Ion Ratio Lower Upper
43 100
58 28.8 39.0 58.6#
98 0.0 0.2 0.4#



#52
Tetrachloroethene
Concen: 3.18 ppbv
RT: 12.79 min Scan# 1592
Delta R.T. -0.00 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

Tgt Ion: 164 Resp: 268716
Ion Ratio Lower Upper
164 100
166 124.8 102.3 153.5
129 100.1 86.2 129.4
131 97.0 80.3 120.5





#53

Toluene

Concen: 33.63 ppbv

RT: 11.24 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

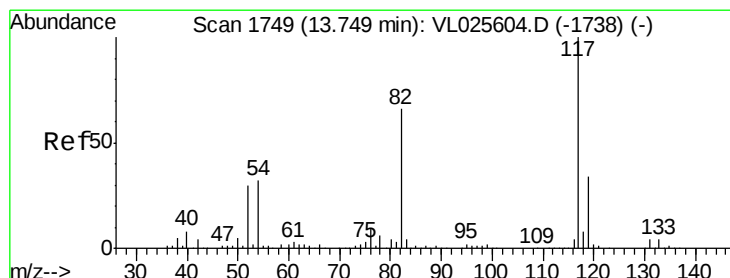
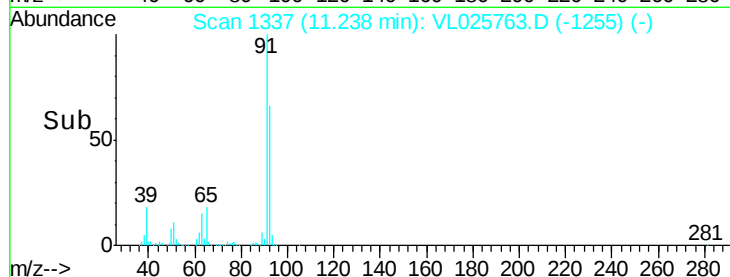
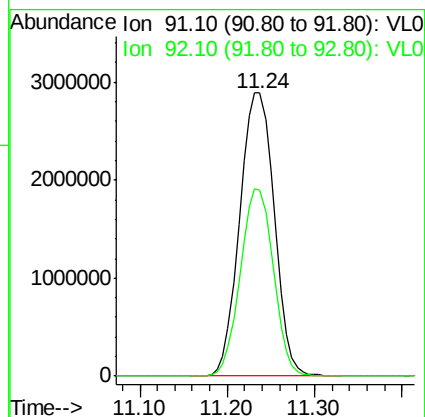
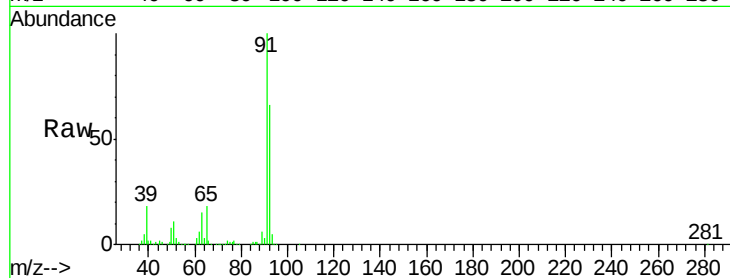
IA-1

Tot Ion: 91 Resp: 7958891

Ion Ratio Lower Upper

91 100

92 63.6 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.74 min Scan# 1748

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

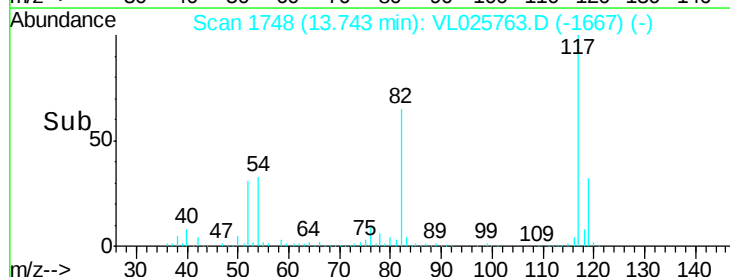
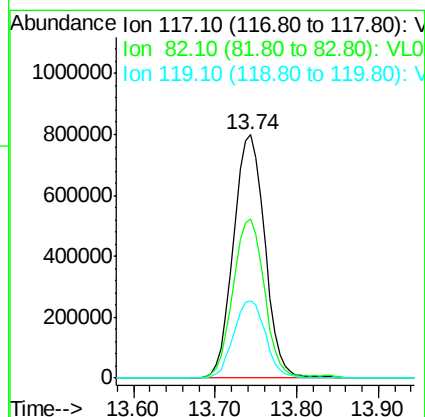
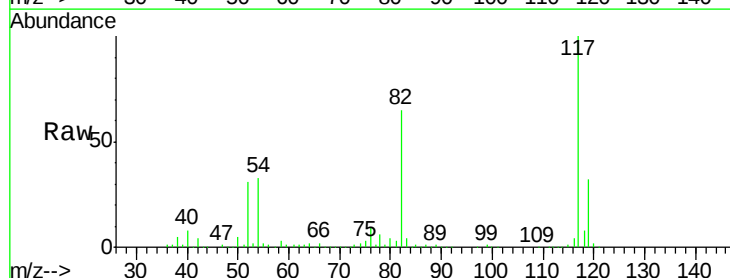
Tgt Ion: 117 Resp: 2125394

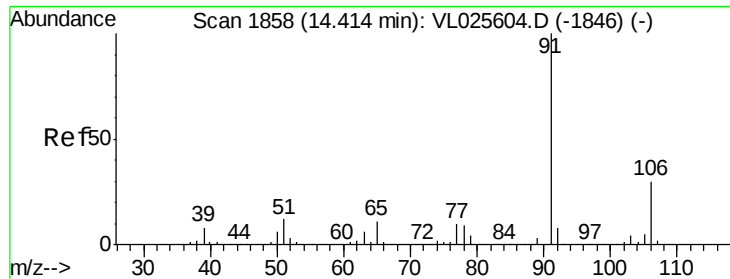
Ion Ratio Lower Upper

117 100

82 66.4 50.5 75.7

119 32.6 45.1 67.7#





#58

Ethyl Benzene

Concen: 0.73 ppbv

RT: 14.41 min Scan# 1857

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

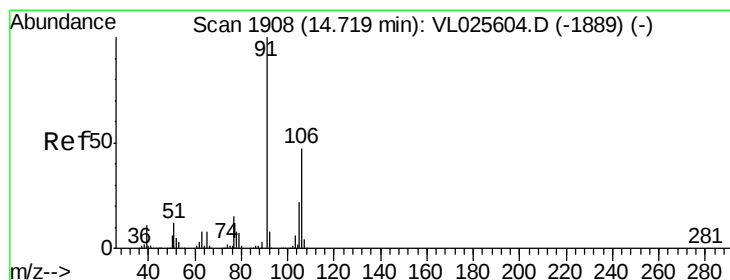
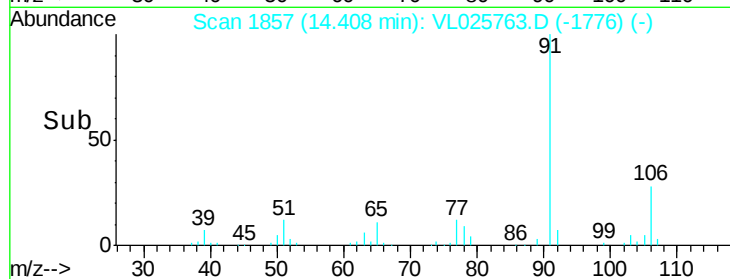
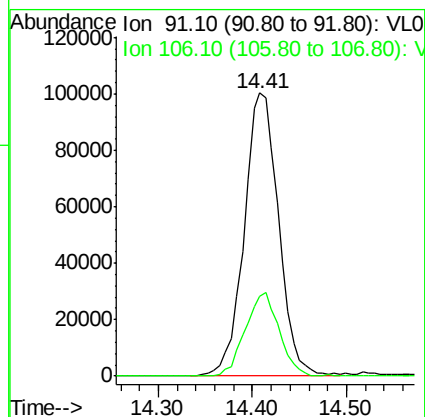
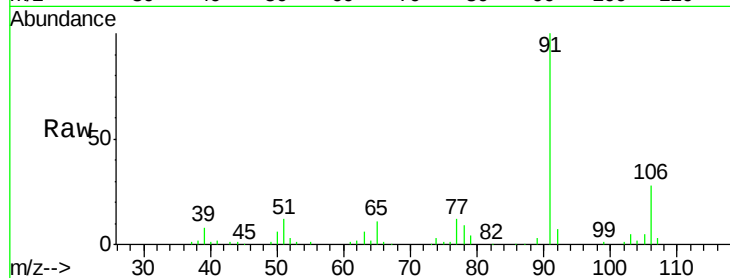
IA-1

Tot Ion: 91 Resp: 255631

Ion Ratio Lower Upper

91 100

106 28.2 24.2 36.2



#59

m/p-Xylene

Concen: 1.81 ppbv

RT: 14.69 min Scan# 1903

Delta R.T. -0.03 min

Lab File: VL025763.D

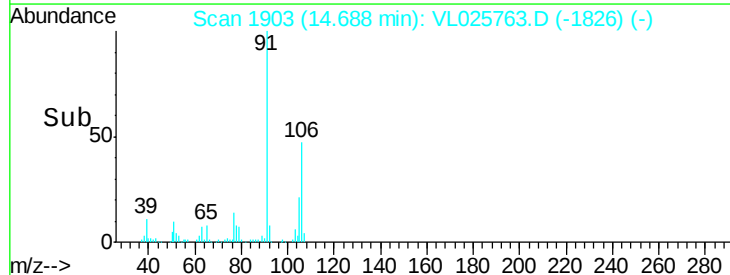
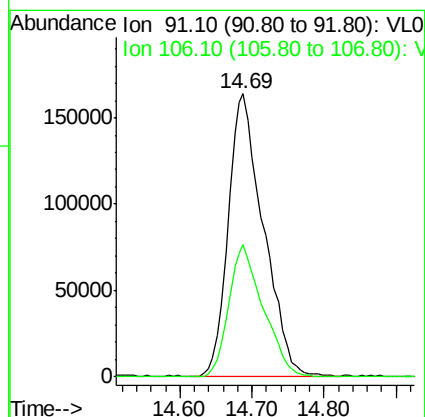
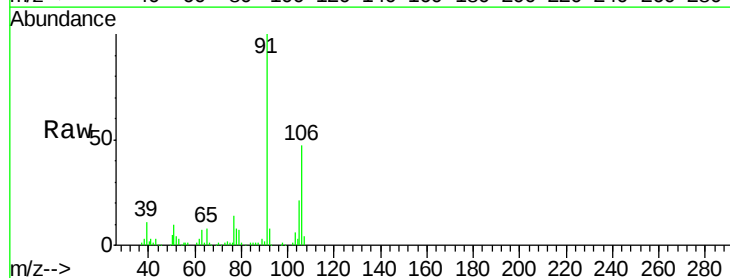
Acq: 27 Jul 2015 21:38

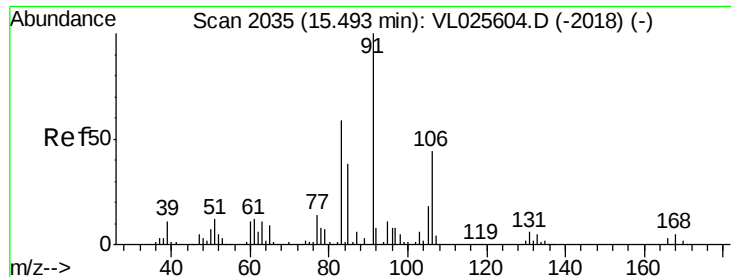
Tgt Ion: 91 Resp: 557985

Ion Ratio Lower Upper

91 100

106 45.7 37.9 56.9

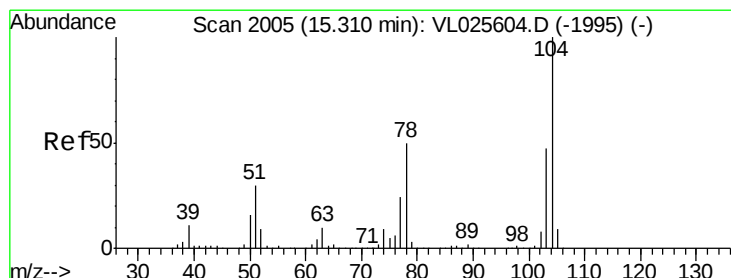
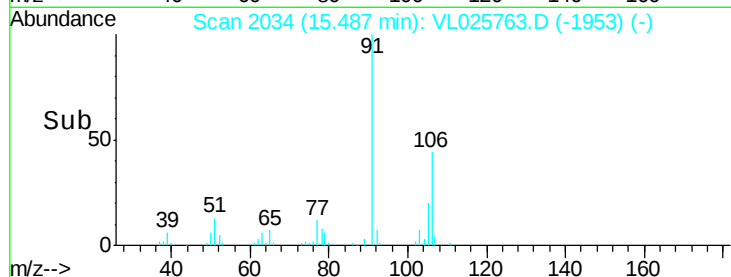
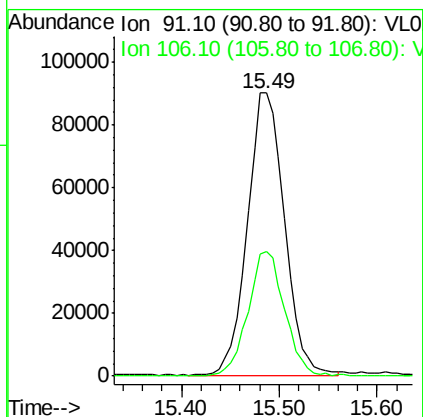
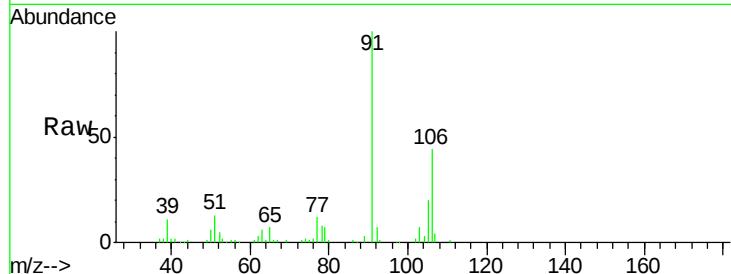




#60
o-Xylene
Concen: 0.72 ppbv
RT: 15.49 min Scan# 2034
Delta R.T. -0.01 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

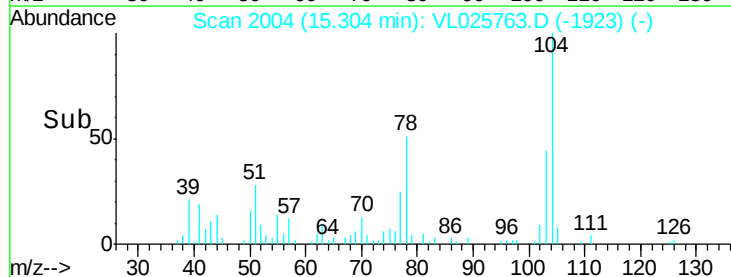
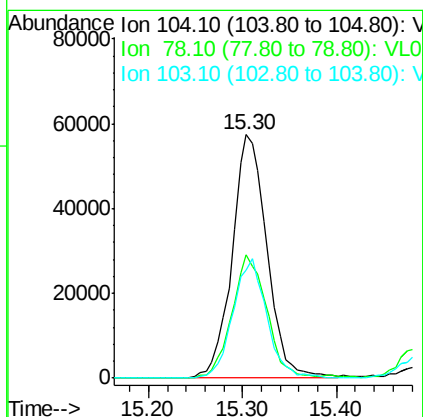
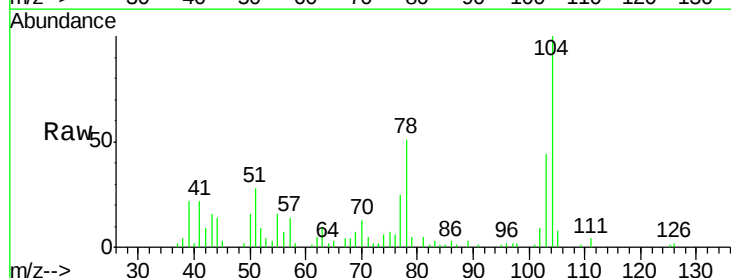
Instrument :
MSVOA_L
ClientSampled :
IA-1

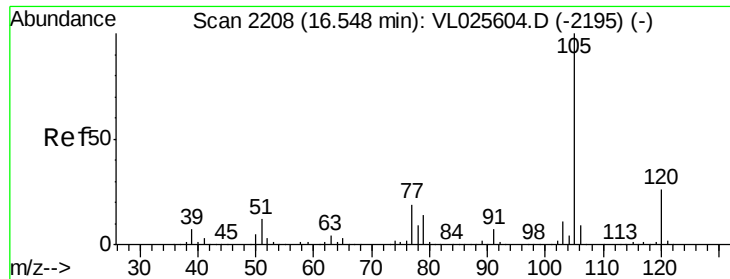
Tot Ion: 91 Resp: 239491
Ion Ratio Lower Upper
91 100
106 43.4 22.1 66.1



#61
Styrene
Concen: 1.27 ppbv
RT: 15.30 min Scan# 2004
Delta R.T. -0.01 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

Tgt Ion: 104 Resp: 148028
Ion Ratio Lower Upper
104 100
78 51.3 40.2 60.4
103 47.5 37.4 56.2





#62

Isopropylbenzene

Concen: 0.11 ppbv

RT: 16.55 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampled :

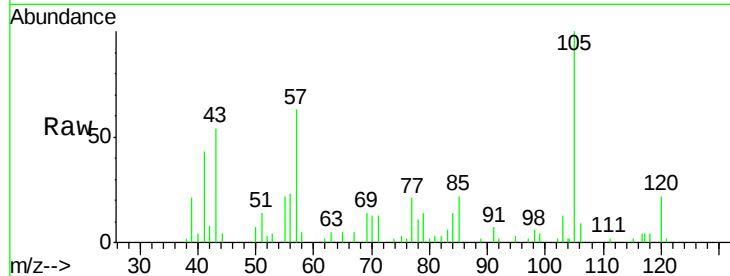
IA-1

Tot Ion:105 Resp: 49347

Ion Ratio Lower Upper

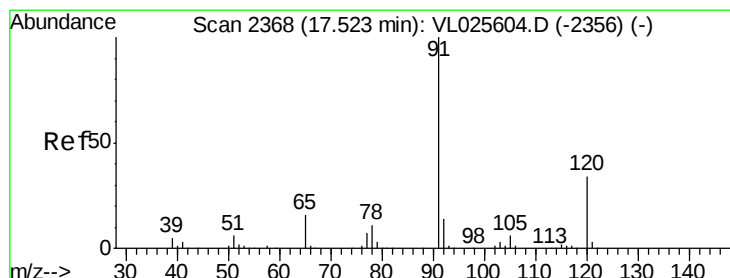
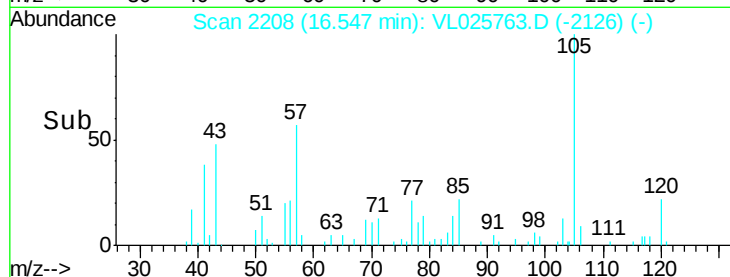
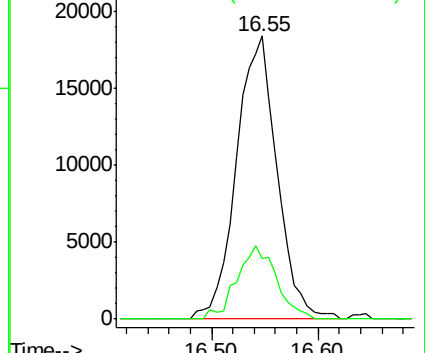
105 100

120 25.2 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.29 ppbv

RT: 17.52 min Scan# 2367

Delta R.T. -0.01 min

Lab File: VL025763.D

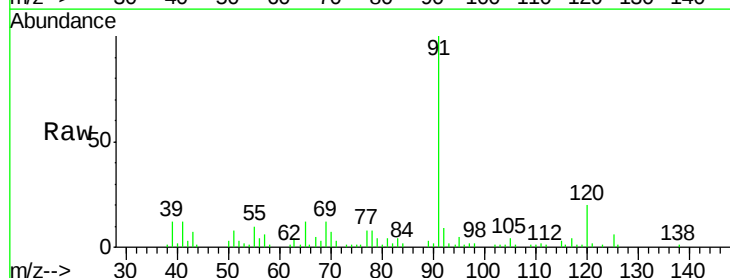
Acq: 27 Jul 2015 21:38

Tgt Ion:120 Resp: 34163

Ion Ratio Lower Upper

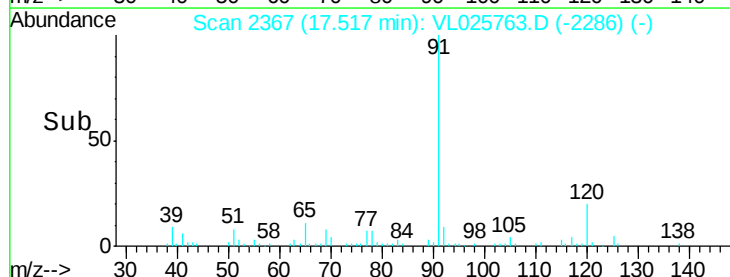
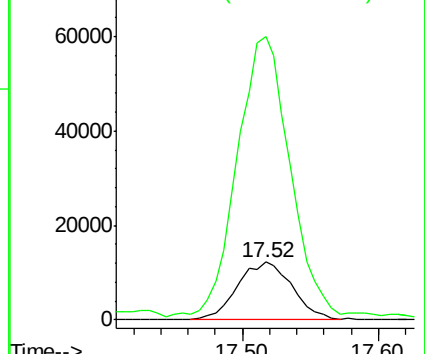
120 100

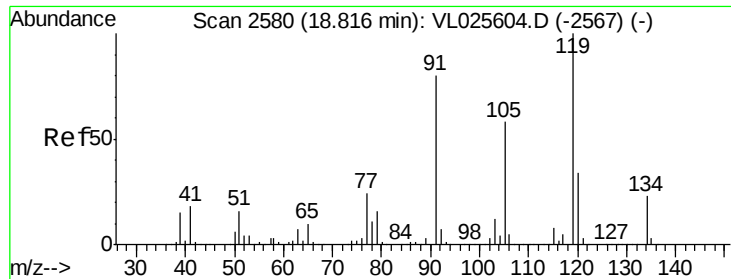
91 492.6 370.5 555.7



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

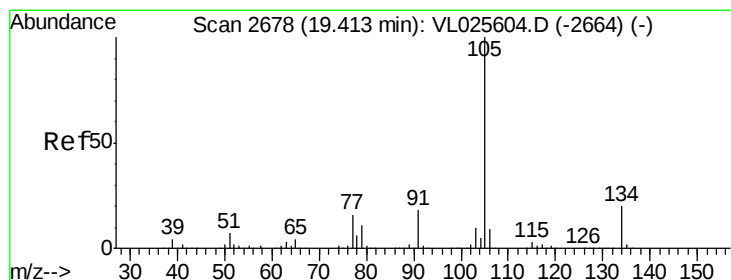
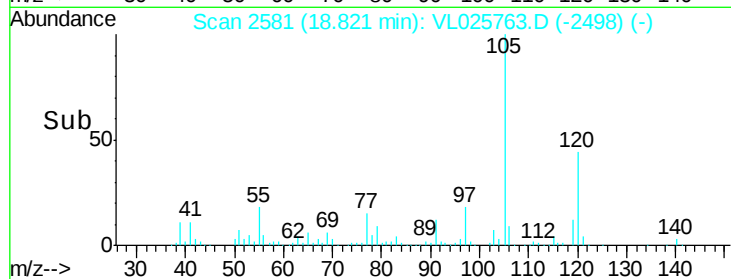
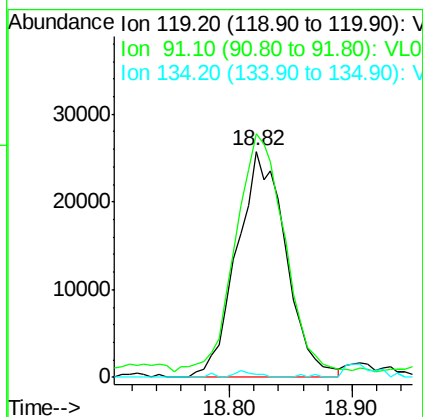
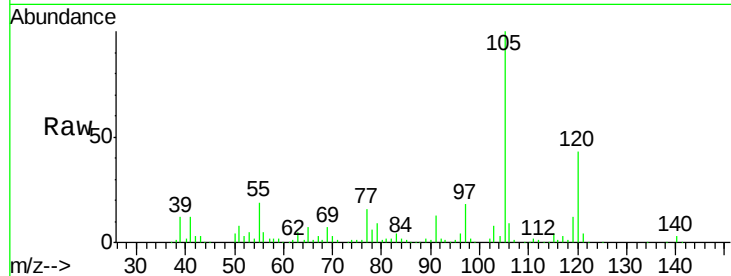




#65
 tert-Butylbenzene
 Concen: 0.17 ppbv
 RT: 18.82 min Scan# 2581
 Delta R.T. 0.01 min
 Lab File: VL025763.D
 Acq: 27 Jul 2015 21:38

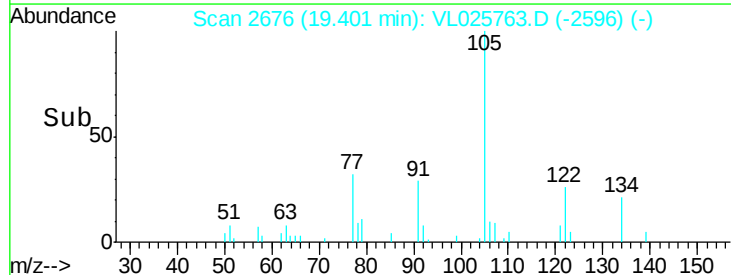
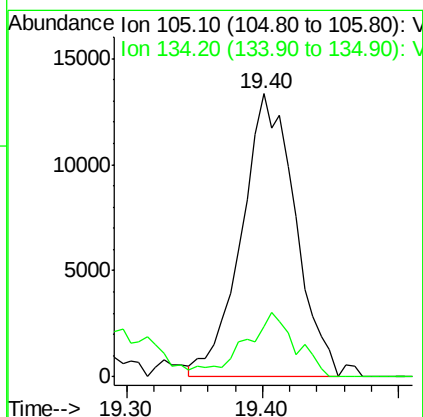
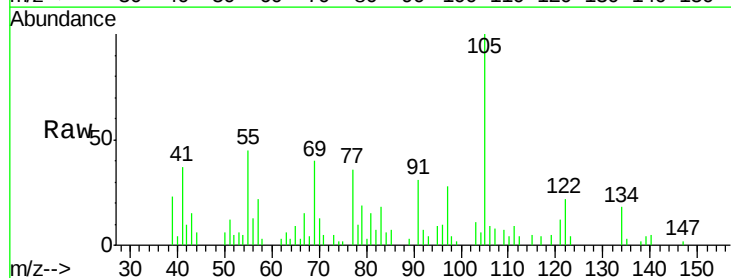
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

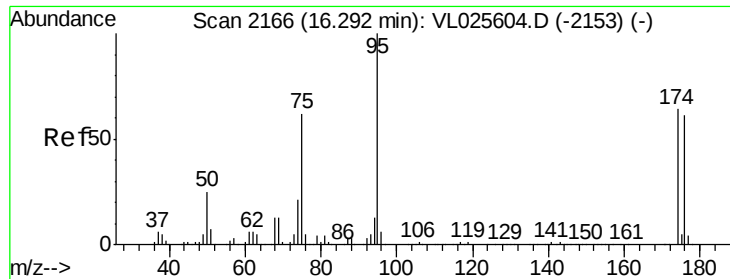
Tot Ion:119 Resp: 71339
 Ion Ratio Lower Upper
 119 100
 91 103.0 64.5 96.7#
 134 1.4 17.4 26.0#



#67
 sec-Butylbenzene
 Concen: 0.06 ppbv
 RT: 19.40 min Scan# 2676
 Delta R.T. -0.01 min
 Lab File: VL025763.D
 Acq: 27 Jul 2015 21:38

Tgt Ion:105 Resp: 36801
 Ion Ratio Lower Upper
 105 100
 134 22.0 15.4 23.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.37 ppbv

RT: 16.29 min Scan# 2165

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampled :

IA-1

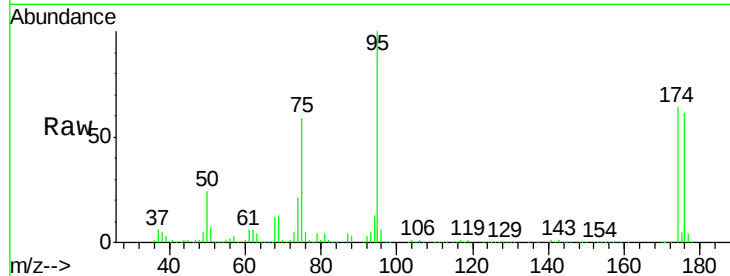
Tot Ion: 95 Resp: 1859062

Ion Ratio Lower Upper

95 100

174 63.7 52.0 78.0

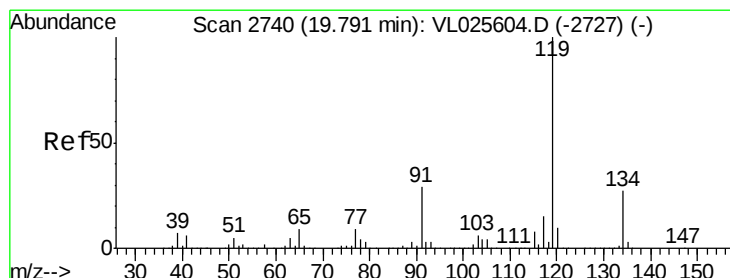
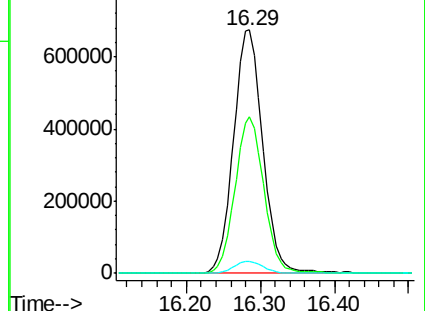
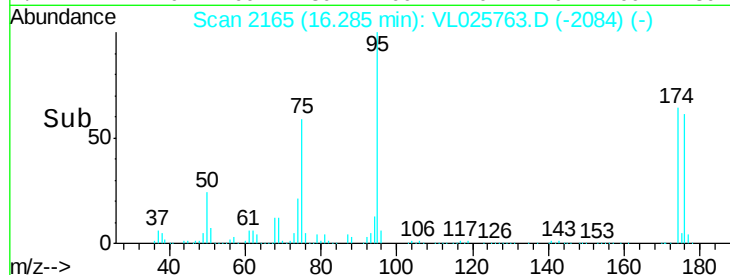
175 4.9 3.9 5.9



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



#69

p-Isopropyltoluene

Concen: 2.44 ppbv

RT: 19.78 min Scan# 2739

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

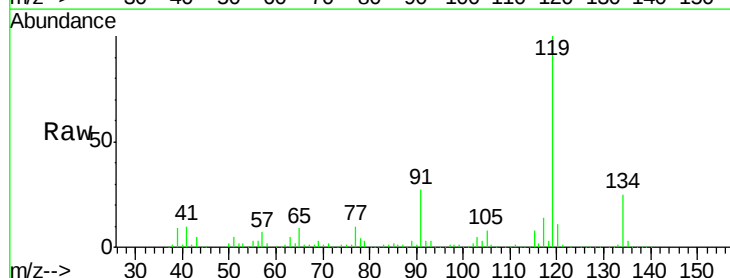
Tgt Ion: 119 Resp: 1203376

Ion Ratio Lower Upper

119 100

134 24.7 20.7 31.1

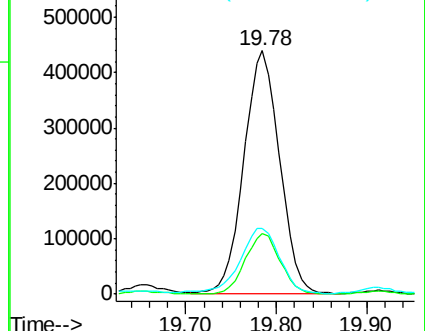
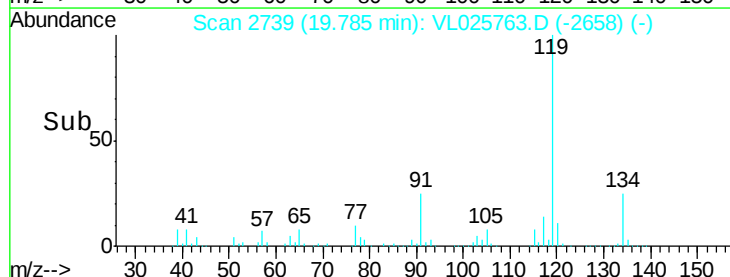
91 30.0 22.6 34.0

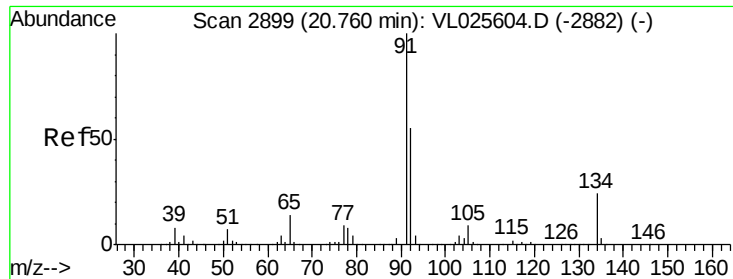


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

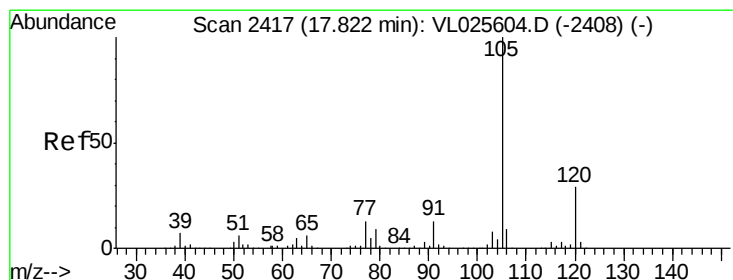
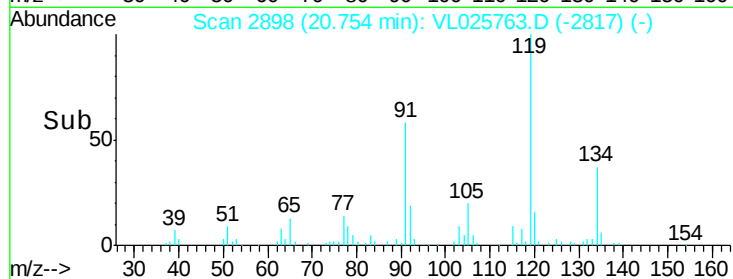
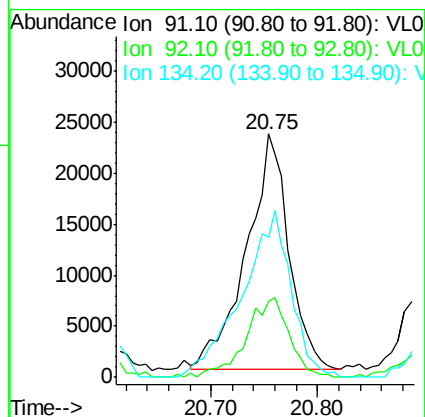
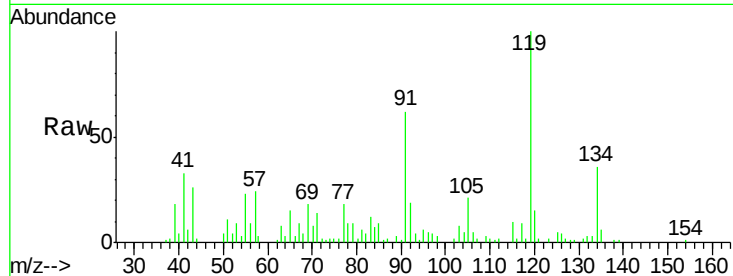




#70
n-Butylbenzene
Concen: 0.13 ppbv
RT: 20.75 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

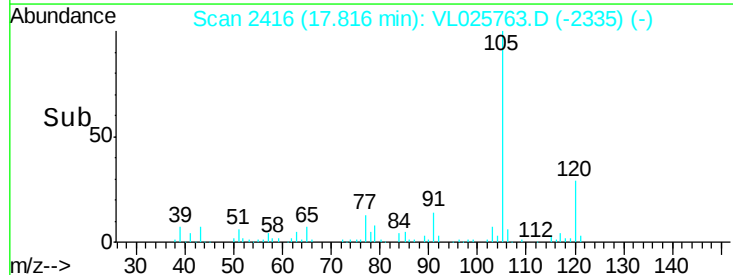
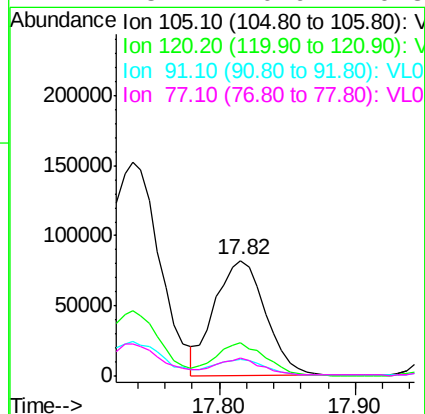
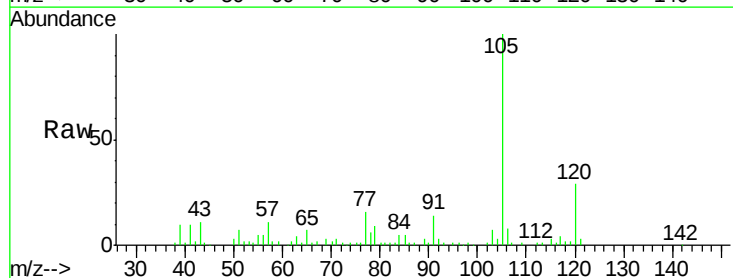
Instrument :
MSVOA_L
ClientSampled :
IA-1

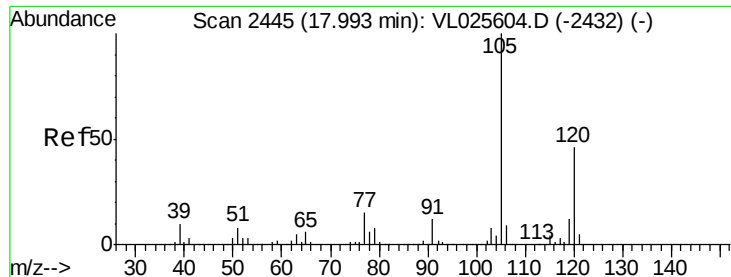
Tot Ion: 91 Resp: 64459
Ion Ratio Lower Upper
91 100
92 34.6 44.3 66.5#
134 82.1 19.4 29.2#



#72
4-Ethyltoluene
Concen: 0.58 ppbv
RT: 17.82 min Scan# 2416
Delta R.T. -0.01 min
Lab File: VL025763.D
Acq: 27 Jul 2015 21:38

Tgt Ion: 105 Resp: 212183
Ion Ratio Lower Upper
105 100
120 26.2 23.9 35.9
91 12.8 10.3 15.5
77 13.7 10.9 16.3

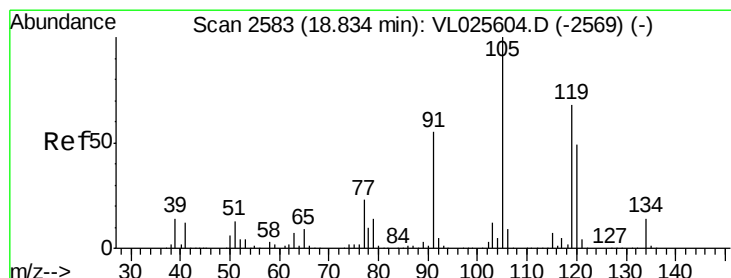
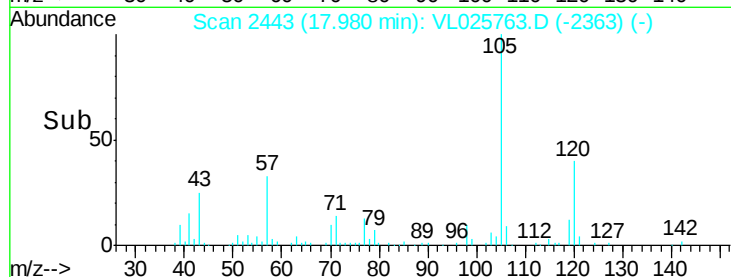
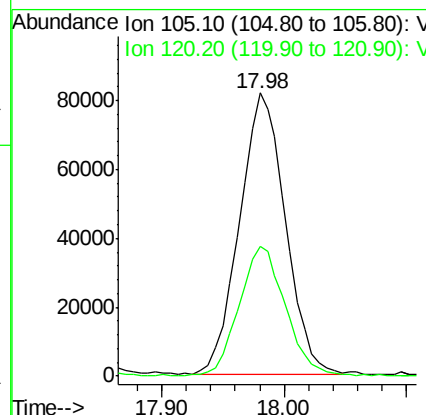
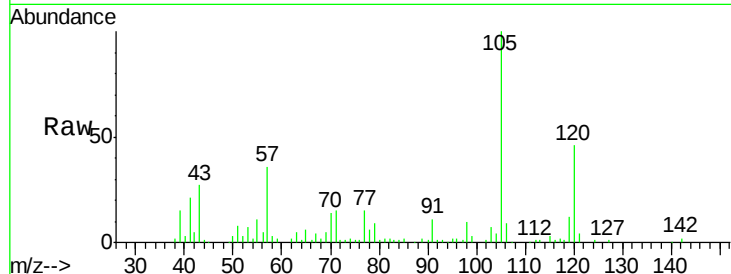




#73
 1,3,5-Trimethylbenzene
 Concen: 0.59 ppbv
 RT: 17.98 min Scan# 2443
 Delta R.T. -0.01 min
 Lab File: VL025763.D
 Acq: 27 Jul 2015 21:38

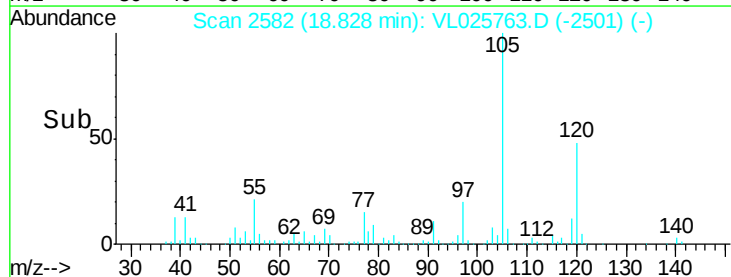
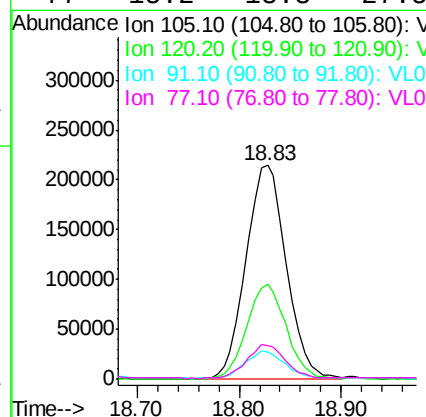
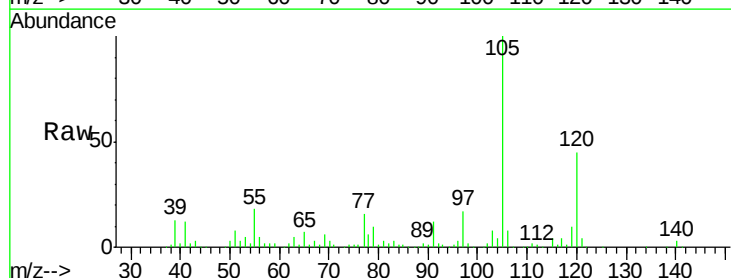
Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

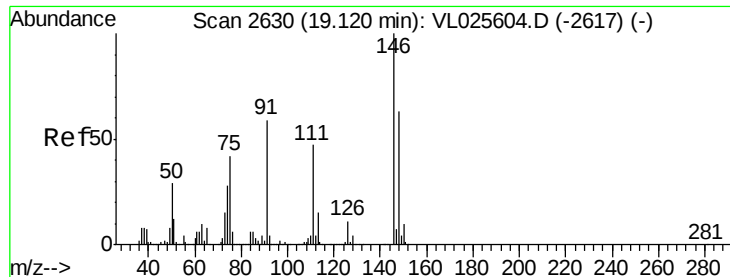
Tot Ion:105 Resp: 211414
 Ion Ratio Lower Upper
 105 100
 120 45.6 37.0 55.4



#74
 1,2,4-Trimethylbenzene
 Concen: 1.46 ppbv
 RT: 18.83 min Scan# 2582
 Delta R.T. -0.01 min
 Lab File: VL025763.D
 Acq: 27 Jul 2015 21:38

Tgt Ion:105 Resp: 590712
 Ion Ratio Lower Upper
 105 100
 120 44.6 39.3 58.9
 91 12.1 43.8 65.6#
 77 15.2 18.3 27.5#





#75

1,3-Dichlorobenzene

Concen: 1.23 ppbv

RT: 19.27 min Scan# 2654

Delta R.T. 0.15 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampled :

IA-1

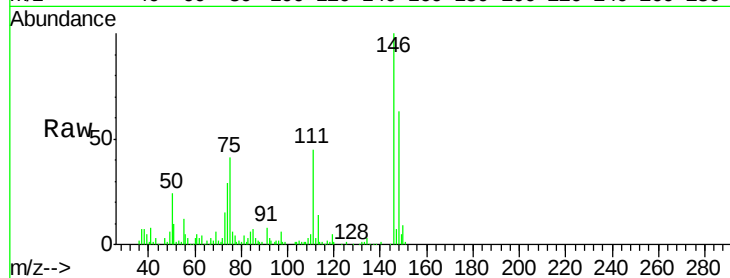
Tot Ion:146 Resp: 323838

Ion Ratio Lower Upper

146 100

111 49.0 22.7 68.1

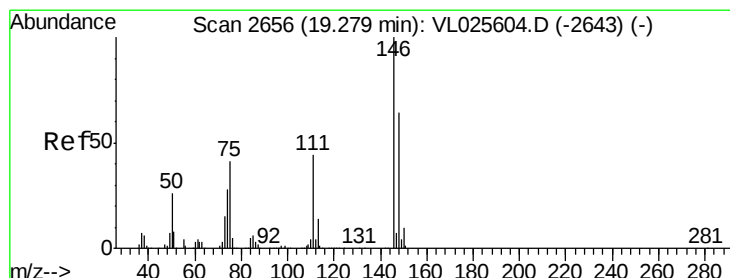
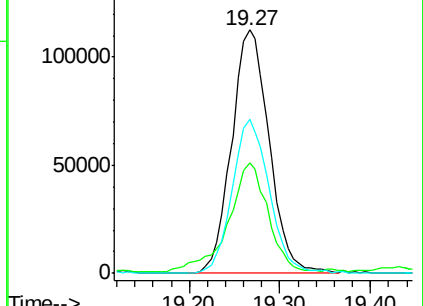
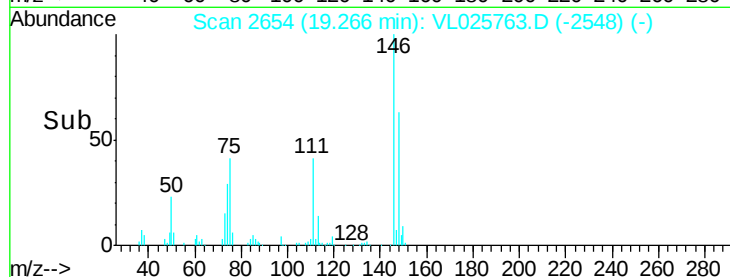
148 62.5 31.8 95.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 1.23 ppbv

RT: 19.27 min Scan# 2654

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

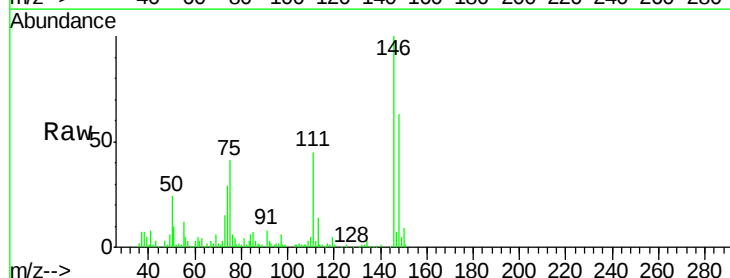
Tgt Ion:146 Resp: 323838

Ion Ratio Lower Upper

146 100

111 49.2 22.1 66.1

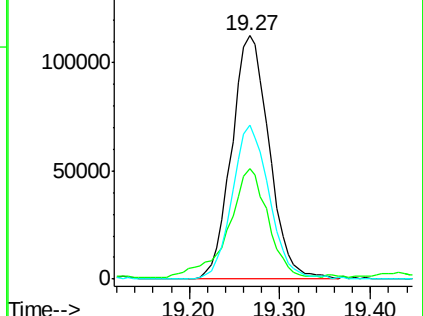
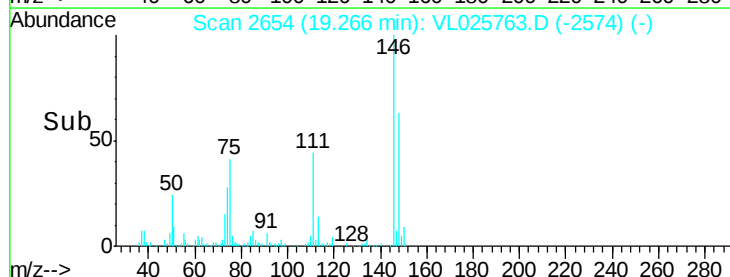
148 62.6 31.9 95.9

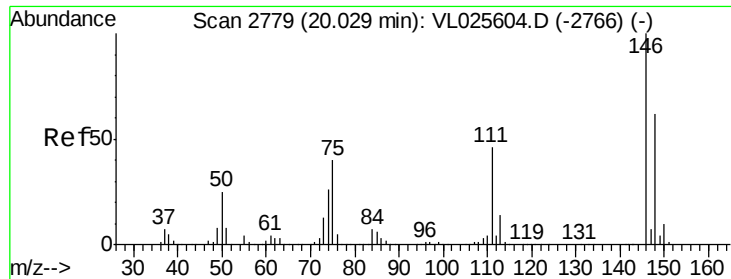


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.05 ppbv

RT: 20.02 min Scan# 2778

Delta R.T. -0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-1

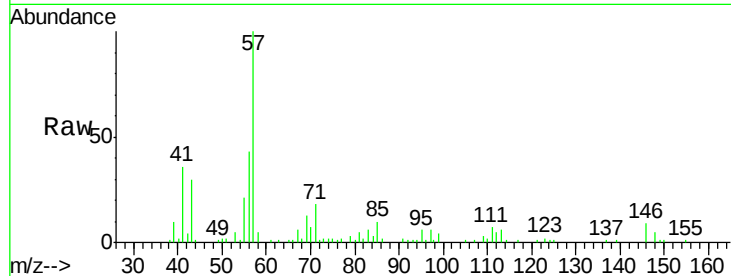
Tot Ion:146 Resp: 14068

Ion Ratio Lower Upper

146 100

111 84.6 23.4 70.3#

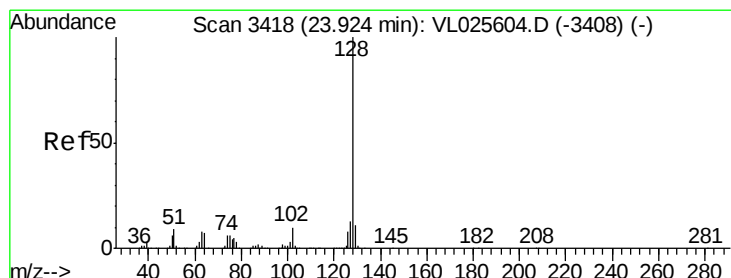
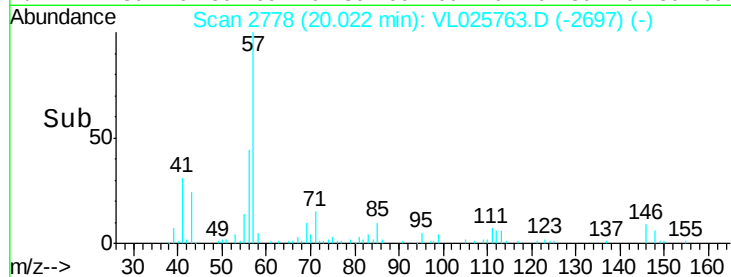
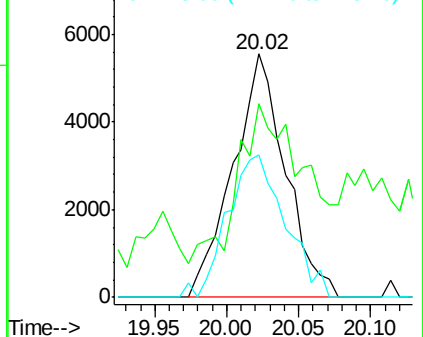
148 64.3 31.6 94.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.24 ppbv

RT: 23.92 min Scan# 3418

Delta R.T. -0.00 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

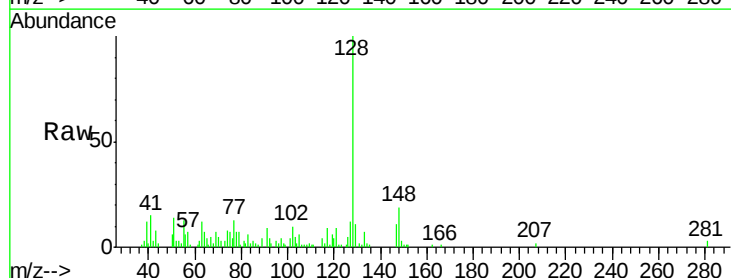
Tgt Ion:128 Resp: 93833

Ion Ratio Lower Upper

128 100

127 11.9 10.8 16.2

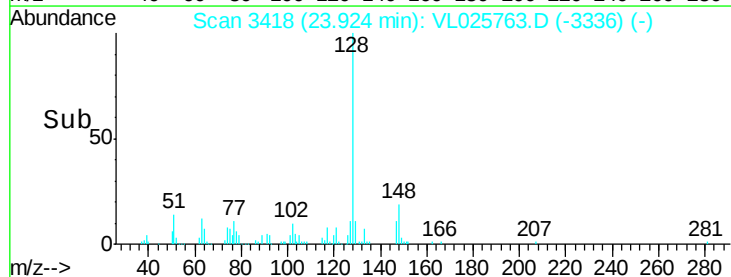
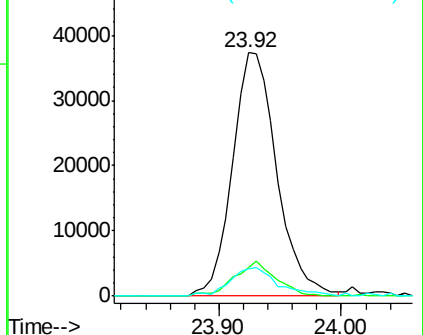
129 11.0 9.0 13.4

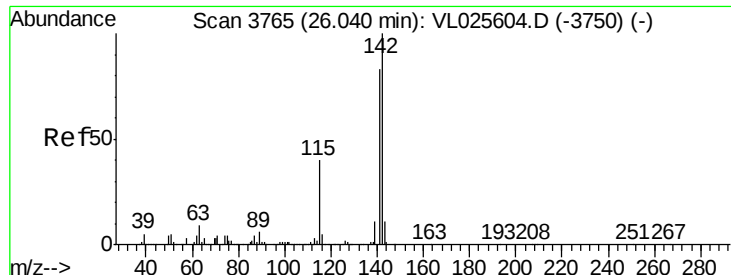


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene,2-methyl-

Concen: 0.04 ppbv

RT: 26.05 min Scan# 3766

Delta R.T. 0.01 min

Lab File: VL025763.D

Acq: 27 Jul 2015 21:38

Instrument :

MSVOA_L

ClientSampleId :

IA-1

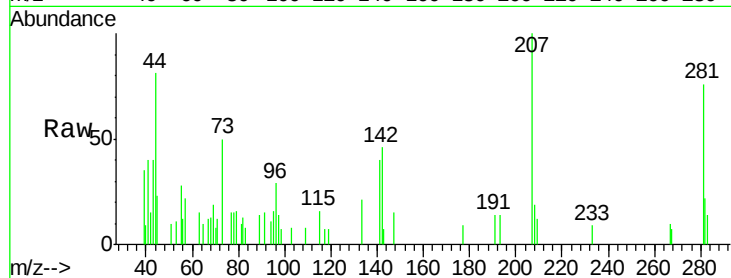
Tot Ion:142 Resp: 4857

Ion Ratio Lower Upper

142 100

141 86.5 67.1 100.7

115 135.8 33.9 50.9#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

