

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL102115\
 Data File : VL026246.D
 Acq On : 21 Oct 2015 20:26
 Operator : SY/MD
 Sample : G4128-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INF

Quant Time: Oct 22 08:37:40 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 21 01:20:55 2015
 QLast Update : Wed Oct 21 01:20:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	484572	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.31	114	1383556	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.89	117	1601133	10.00	ppbv	0.16

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.35	95	1262969	10.23	ppbv	0.07
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.62	85	33958	0.34	ppbv	96
3) Chlorodifluoromethane	3.55	51	128104	2.09	ppbv #	82
4) Chloromethane	3.73	50	5878	0.18	ppbv	96
9) Propene	3.58	41	13918	0.48	ppbv	86
10) Heptane	9.33	43	6013	0.06	ppbv #	24
11) Trichlorofluoromethane	4.67	101	31265	0.32	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	5.28	101	5791	0.09	ppbv	99
13) Ethanol	4.34	45	3878	0.90	ppbv	82
15) Acetone	4.61	43	73228	1.03	ppbv	96
16) 1,3-Butadiene	3.92	39	30921	0.97	ppbv #	11
18) 1,1-Dichloroethene	5.06	96	3609	0.12	ppbv	96
19) Isopropyl Alcohol	4.76	45	934	0.03	ppbv #	27
20) Methylene Chloride	5.12	84	14155	0.50	ppbv	98
21) Allyl Chloride	5.14	41	1998	0.04	ppbv #	64
22) trans-1,2-Dichloroethene	5.74	96	89138	2.28	ppbv	96
23) Vinyl Acetate	5.98	43	23657	0.18	ppbv #	67
24) 1,1-Dichloroethane	5.89	63	2020	0.02	ppbv #	85
26) Hexane	6.63	57	10852	0.16	ppbv #	55
29) Chloroform	6.73	83	14018	0.14	ppbv	96
30) Cyclohexane	8.26	84	1787	0.03	ppbv #	1
31) cis-1,2-Dichloroethene	6.49	61	7722681	127.29	ppbv	93
32) 1,1,1-Trichloroethane	7.57	97	161701	1.50	ppbv	99
34) 2-Butanone	6.21	43	22740	0.29	ppbv	95
35) Carbon Tetrachloride	8.15	117	2597	0.02	ppbv	94
36) Benzene	8.01	78	11177	0.08	ppbv #	93
38) Trichloroethene	9.06	130	10607029	155.15	ppbv	95
39) 1,2-Dichloropropane	9.06	63	45942	0.93	ppbv #	1
41) Tetrahydrofuran	7.17	42	8003	0.18	ppbv #	90
42) Bromodichloromethane	9.06	83	162779	1.56	ppbv #	93
43) Methyl Methacrylate	9.41	69	1290	0.03	ppbv #	1
44) 2,2,4-Trimethylpentane	9.08	57	5341	0.02	ppbv #	1
52) Tetrachloroethene	13.08	164	73014726	903.51	ppbv	91
53) Toluene	11.22	91	30793	0.16	ppbv	92
57) Chlorobenzene	13.96	112	100901	0.66	ppbv	98
59) m/p-Xylene	14.80	91	19045	0.09	ppbv	97
60) o-Xylene	15.58	91	10946	0.05	ppbv	94
67) sec-Butylbenzene	19.75	105	31878	0.08	ppbv #	68
71) 2-Chlorotoluene	17.47	91	12584	0.06	ppbv	96
72) 4-Ethyltoluene	18.01	105	21206	0.09	ppbv #	83
73) 1,3,5-Trimethylbenzene	18.01	105	21206	0.09	ppbv	98
74) 1,2,4-Trimethylbenzene	18.85	105	59678	0.25	ppbv #	75

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Quant Time: Oct 22 08:37:40 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL102015AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 21 01:20:55 2015
QLast Update : Wed Oct 21 01:20:55 2015
Response via : Initial Calibration

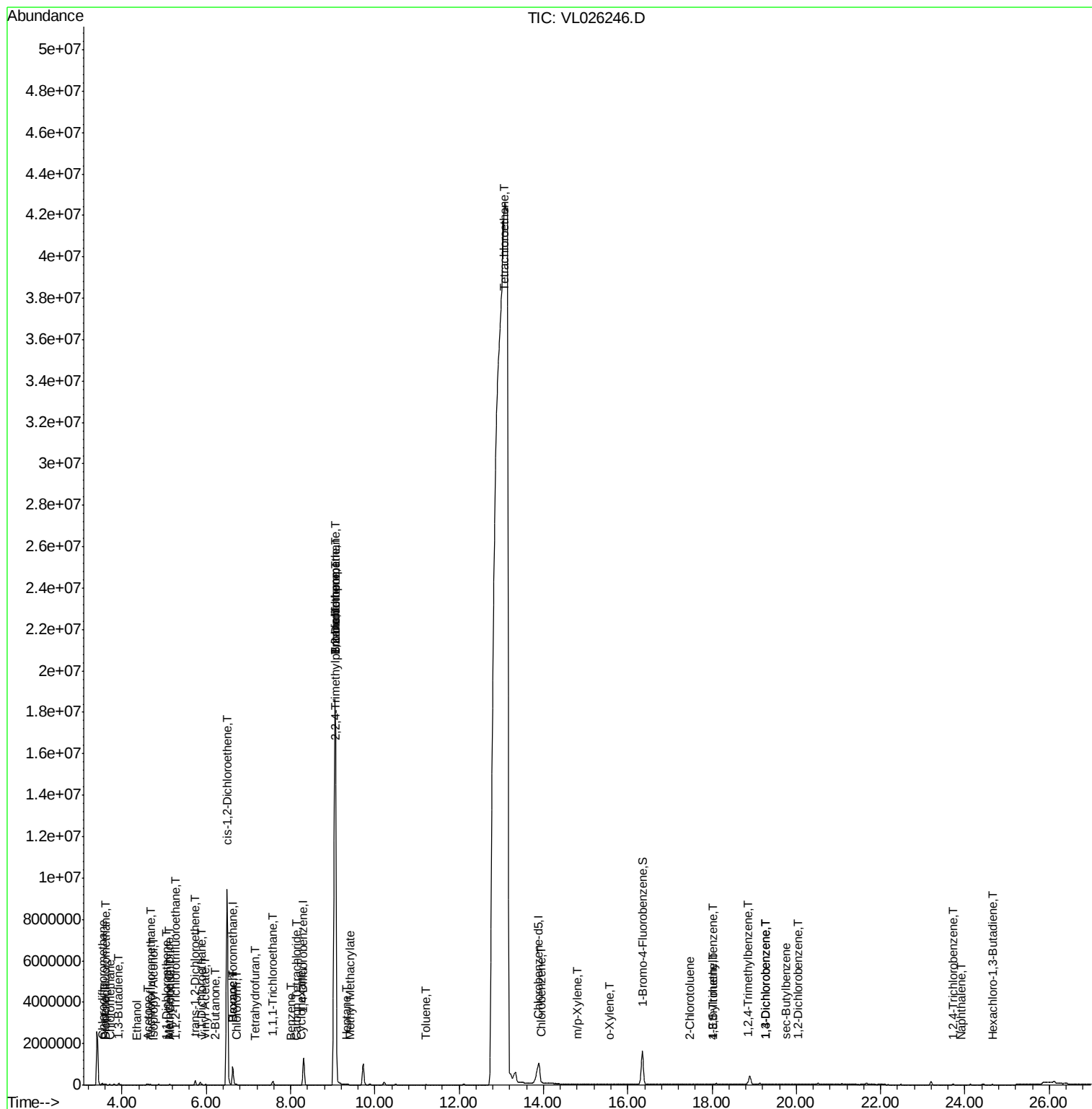
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 1,3-Dichlorobenzene	19.28	146	27466	0.18	ppbv	98
76) 1,4-Dichlorobenzene	19.28	146	27466	0.17	ppbv	99
77) 1,2-Dichlorobenzene	20.03	146	11328	0.07	ppbv	98
78) Hexachloro-1,3-Butadiene	24.65	225	2948	0.04	ppbv	88
79) Naphthalene	23.91	128	4667	0.02	ppbv #	88
81) 1,2,4-Trichlorobenzene	23.71	180	5690	0.06	ppbv	94

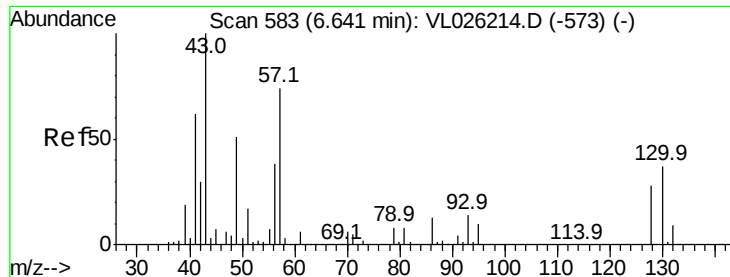
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 581

Delta R.T. -0.01 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :
MSVOA_L
ClientSampleId :
INF

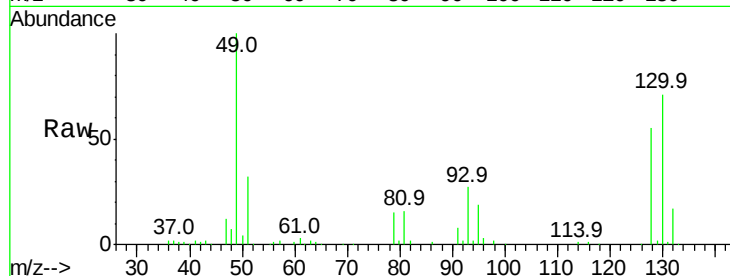
Tgt Ion: 49 Resp: 484572

Ion Ratio Lower Upper

49 100

128 56.7 28.2 84.7

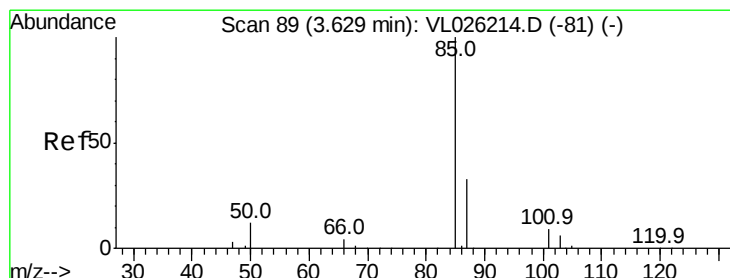
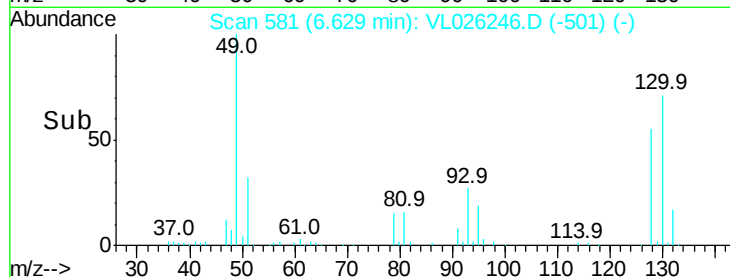
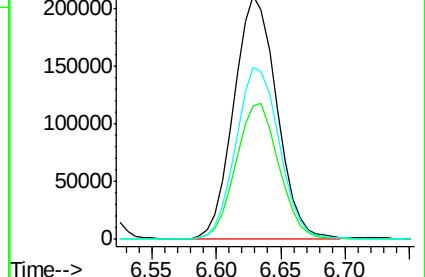
130 72.8 36.0 108.1



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: 0.34 ppbv

RT: 3.62 min Scan# 88

Delta R.T. -0.01 min

Lab File: VL026246.D

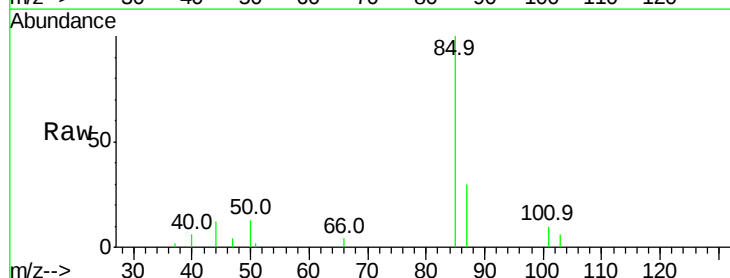
Acq: 21 Oct 2015 20:26

Tgt Ion: 85 Resp: 33958

Ion Ratio Lower Upper

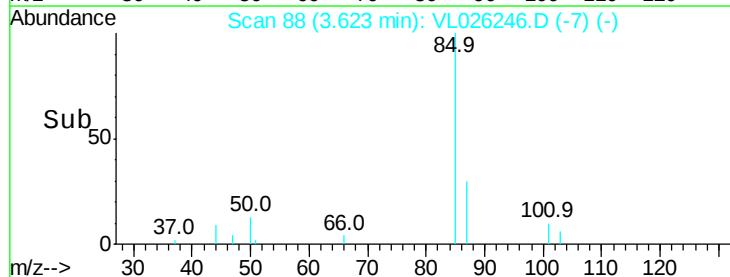
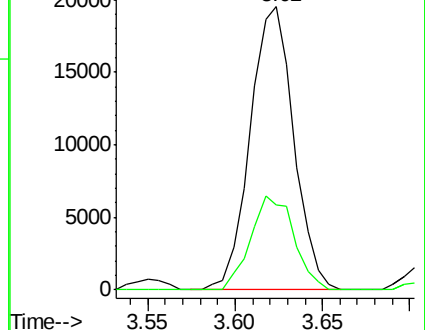
85 100

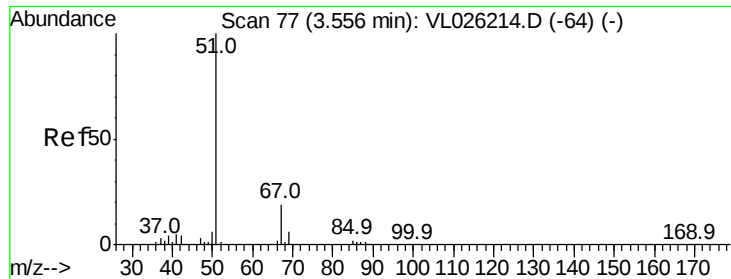
87 30.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

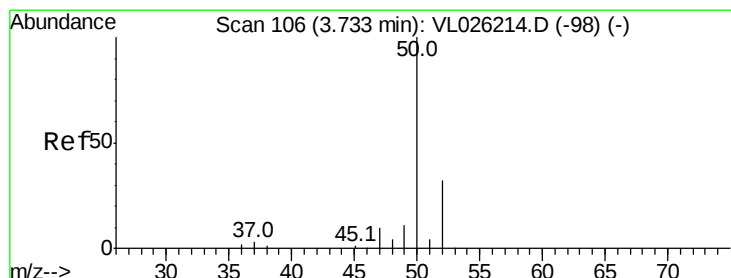
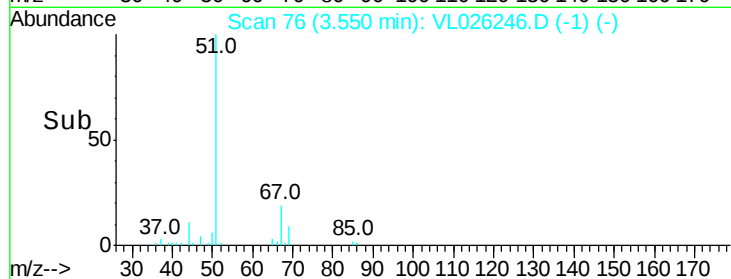
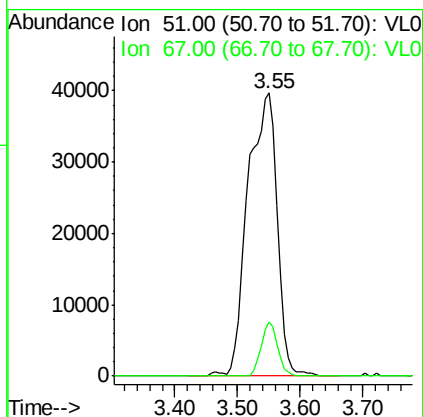
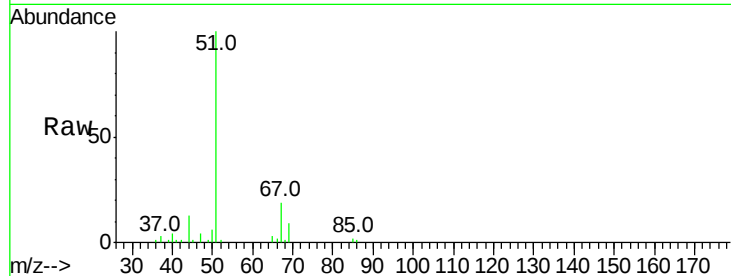




#3
Chlorodifluoromethane
Concen: 2.09 ppbv
RT: 3.55 min Scan# 76
Delta R.T. -0.01 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

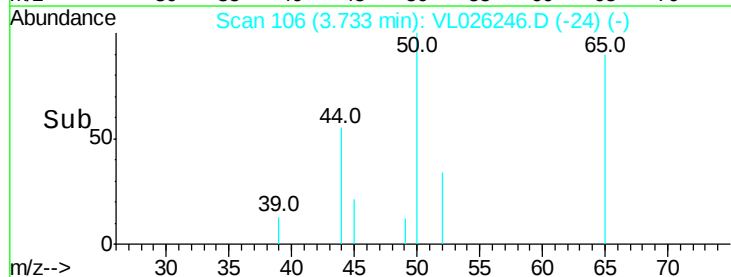
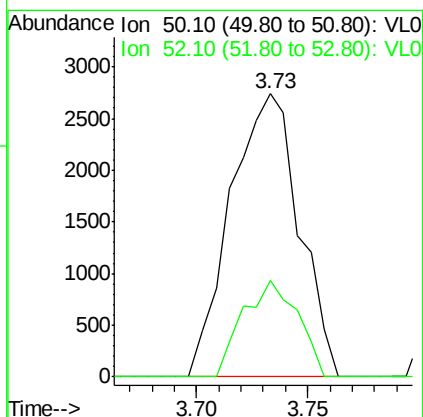
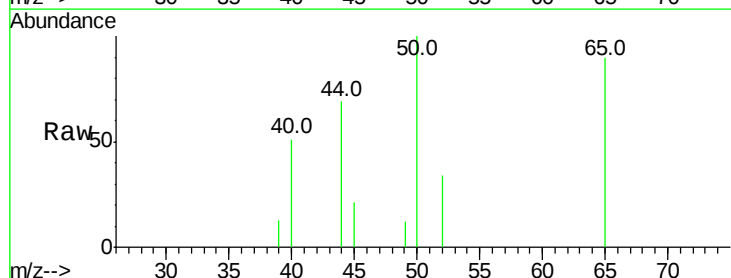
Instrument :
MSVOA_L
ClientSampleId :
INF

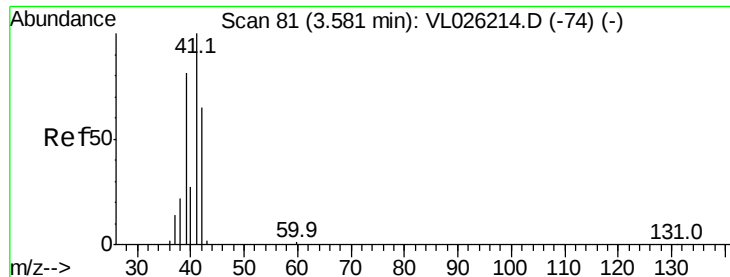
Tgt Ion: 51 Resp: 128104
Ion Ratio Lower Upper
51 100
67 10.7 15.3 22.9#



#4
Chloromethane
Concen: 0.18 ppbv
RT: 3.73 min Scan# 106
Delta R.T. 0.00 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

Tgt Ion: 50 Resp: 5878
Ion Ratio Lower Upper
50 100
52 34.2 25.8 38.6





#9

Propene

Concen: 0.48 ppbv

RT: 3.58 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

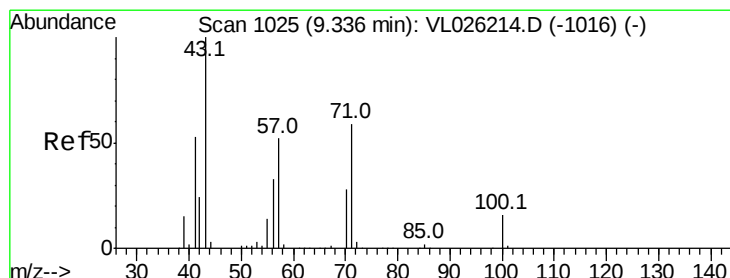
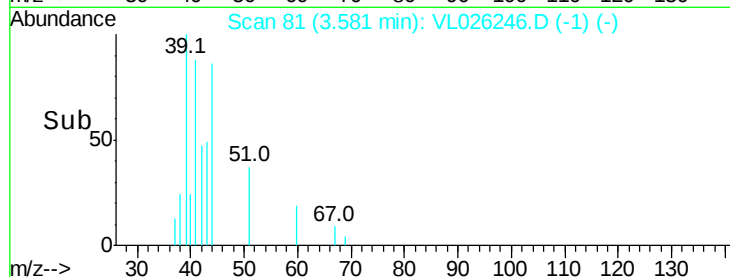
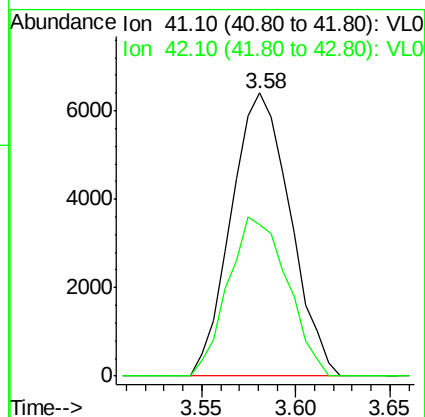
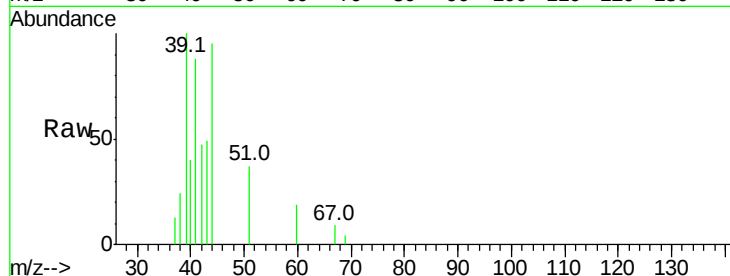
INF

Tgt Ion: 41 Resp: 13918

Ion Ratio Lower Upper

41 100

42 56.3 53.8 80.8



#10

Heptane

Concen: 0.06 ppbv

RT: 9.33 min Scan# 1024

Delta R.T. -0.01 min

Lab File: VL026246.D

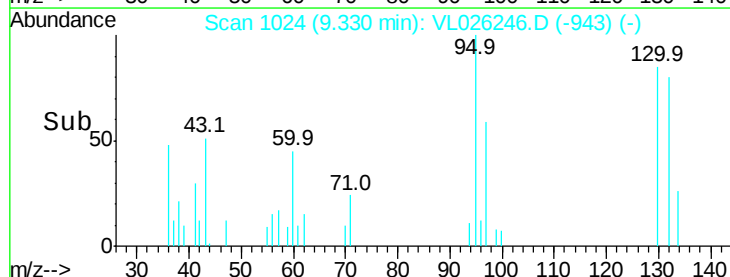
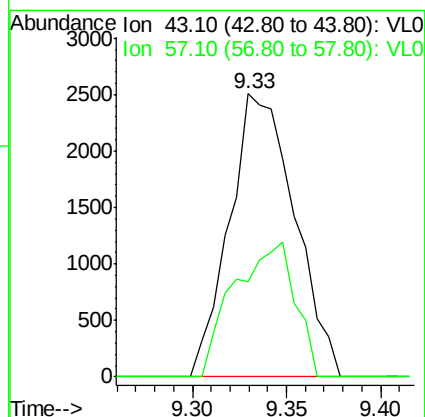
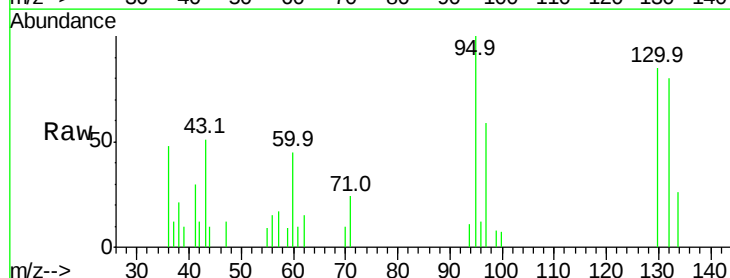
Acq: 21 Oct 2015 20:26

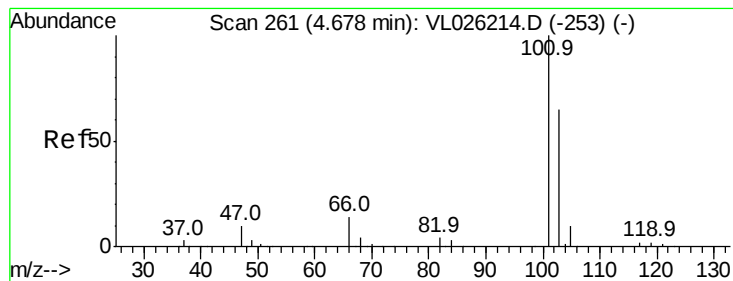
Tgt Ion: 43 Resp: 6013

Ion Ratio Lower Upper

43 100

57 0.0 43.7 65.5#





#11

Trichlorofluoromethane

Concen: 0.32 ppbv

RT: 4.67 min Scan# 260

Delta R.T. -0.01 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampled :

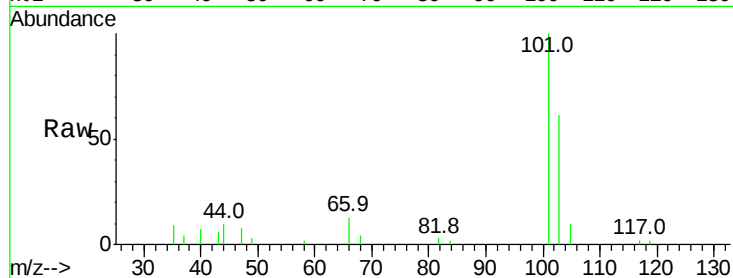
INF

Tgt Ion:101 Resp: 31265

Ion Ratio Lower Upper

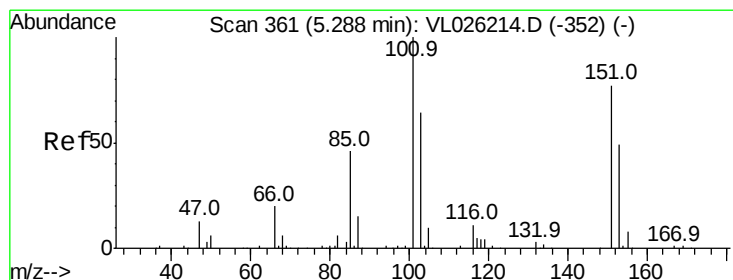
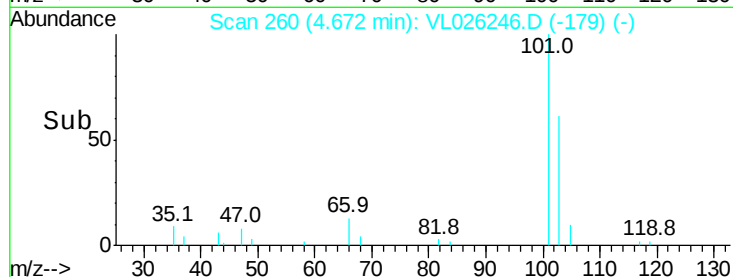
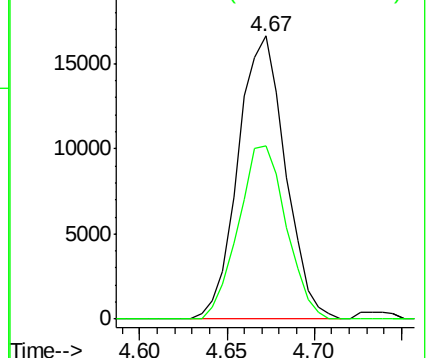
101 100

103 61.3 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.09 ppbv

RT: 5.28 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL026246.D

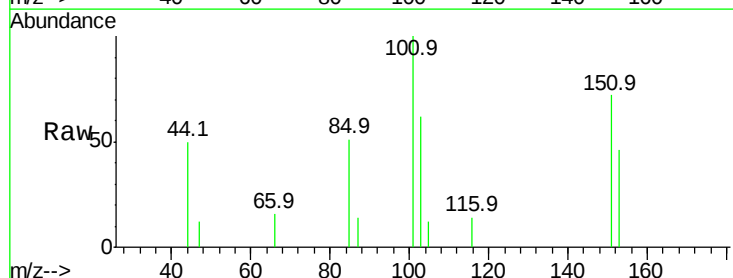
Acq: 21 Oct 2015 20:26

Tgt Ion:101 Resp: 5791

Ion Ratio Lower Upper

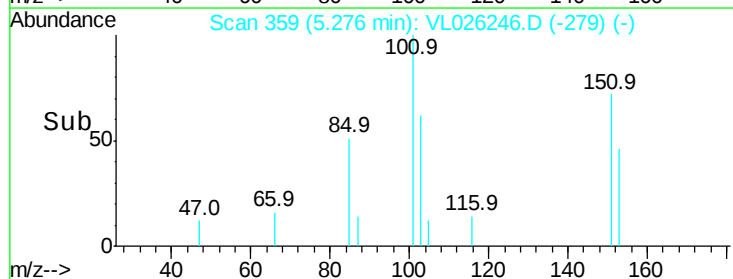
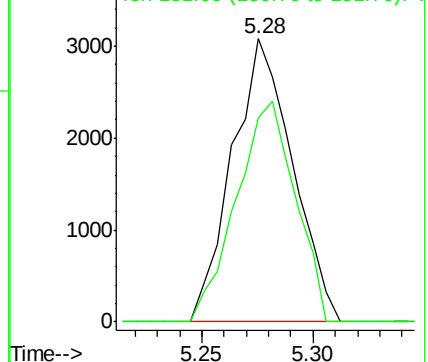
101 100

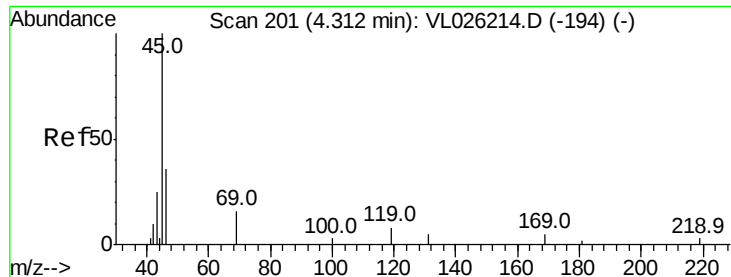
151 76.3 61.7 92.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.90 ppbv

RT: 4.34 min Scan# 206

Delta R.T. 0.03 min

Lab File: VL026246.D

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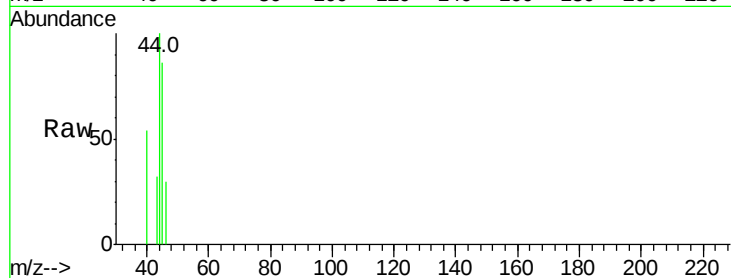
INF

Tgt Ion: 45 Resp: 3878

Ion Ratio Lower Upper

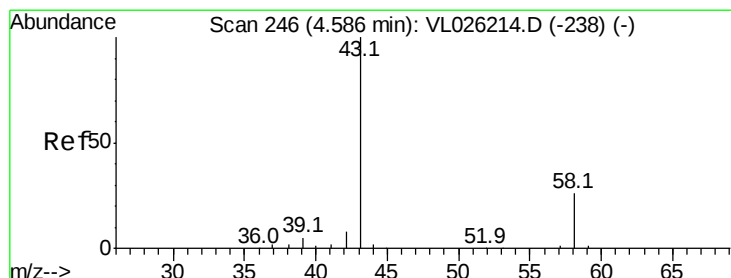
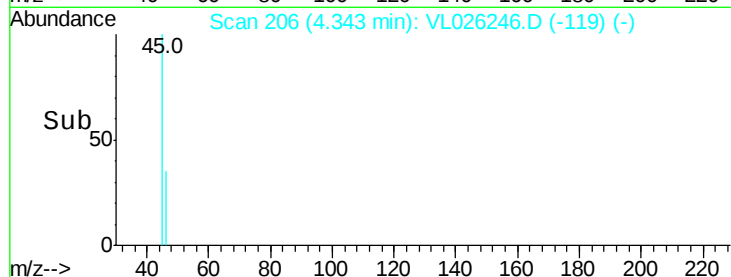
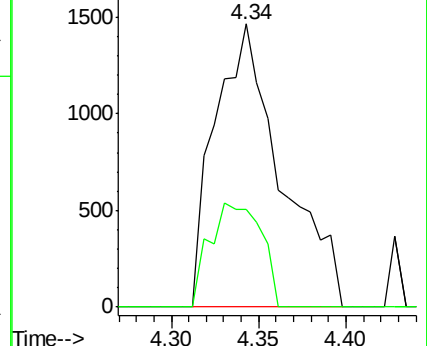
45 100

46 28.3 15.8 63.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 1.03 ppbv

RT: 4.61 min Scan# 250

Delta R.T. 0.02 min

Lab File: VL026246.D

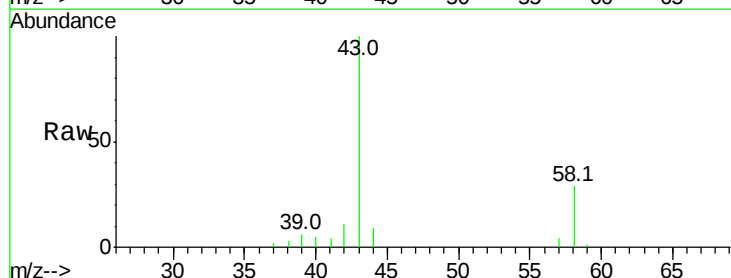
Acq: 21 Oct 2015 20:26

Tgt Ion: 43 Resp: 73228

Ion Ratio Lower Upper

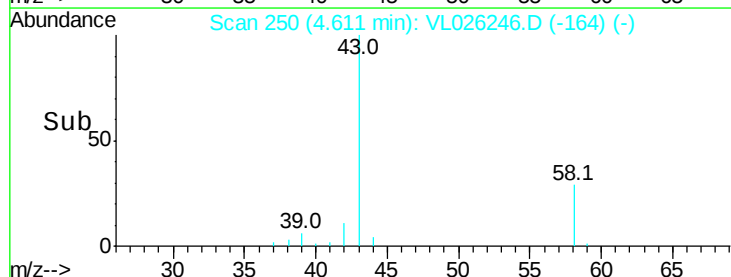
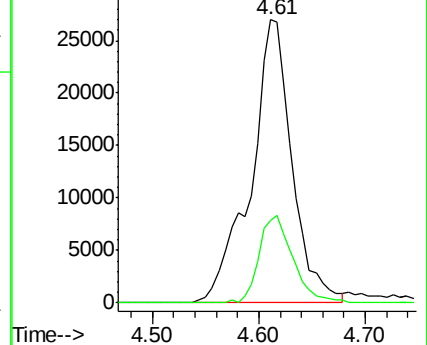
43 100

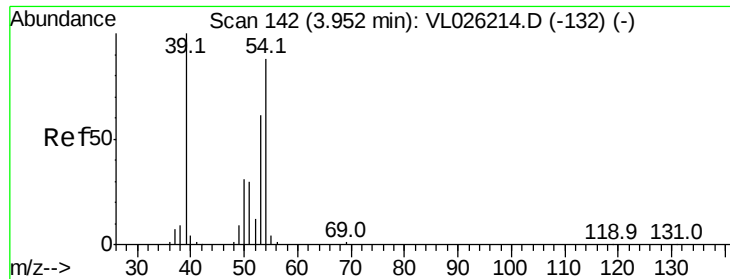
58 25.3 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 0.97 ppbv

RT: 3.92 min Scan# 137

Delta R.T. -0.03 min

Lab File: VL026246.D

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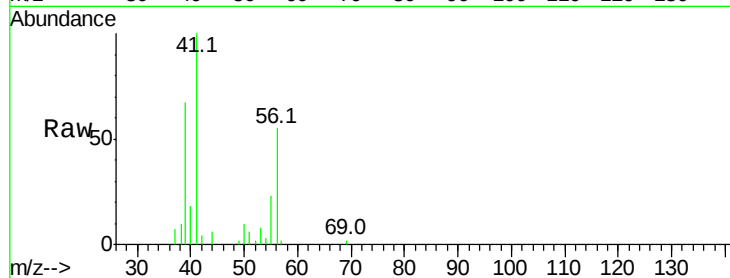
INF

Tgt Ion: 39 Resp: 30921

Ion Ratio Lower Upper

39 100

54 3.5 67.3 100.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.92

20000

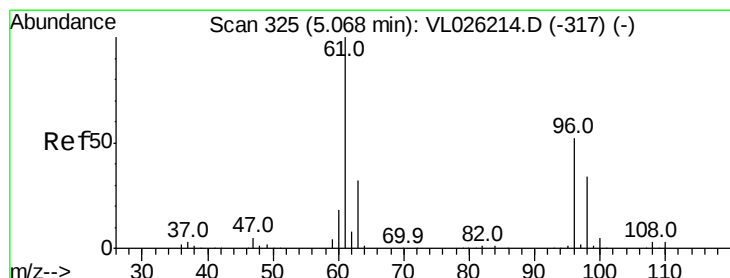
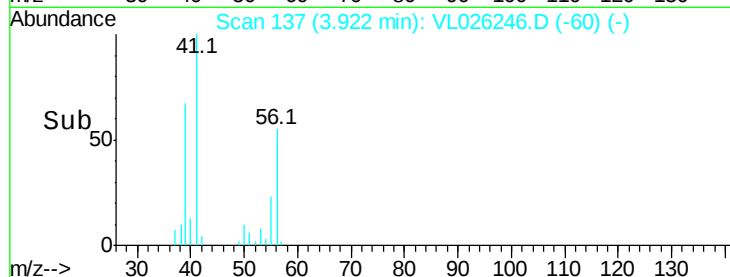
15000

10000

5000

0

Time--> 3.85 3.90 3.95



#18

1,1-Dichloroethene

Concen: 0.12 ppbv

RT: 5.06 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

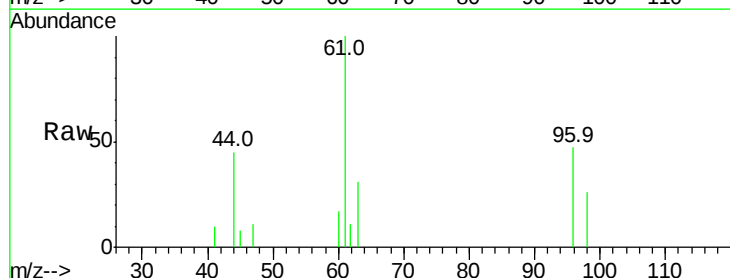
Tgt Ion: 96 Resp: 3609

Ion Ratio Lower Upper

96 100

61 191.1 153.7 230.5

98 54.4 51.6 77.4



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

5000

4000

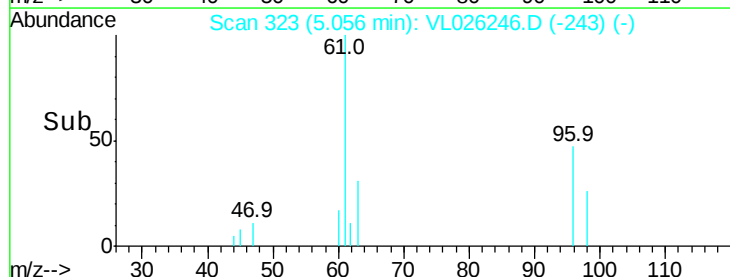
3000

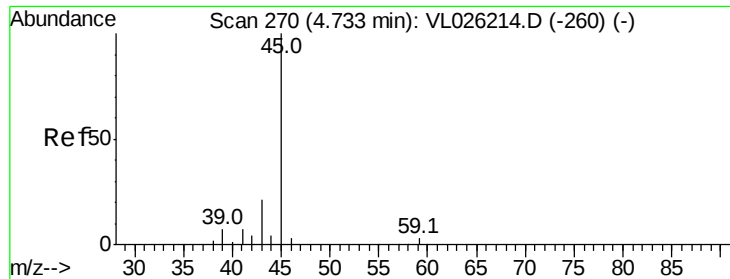
2000

1000

0

Time--> 5.05 5.10





#19

Isopropyl Alcohol

Concen: 0.03 ppbv

RT: 4.76 min Scan# 274

Delta R.T. 0.02 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

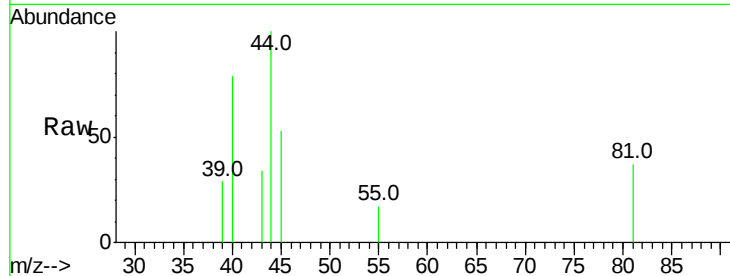
INF

Tgt Ion: 45 Resp: 934

Ion Ratio Lower Upper

45 100

58 0.0 40.3 60.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1200

1000

800

600

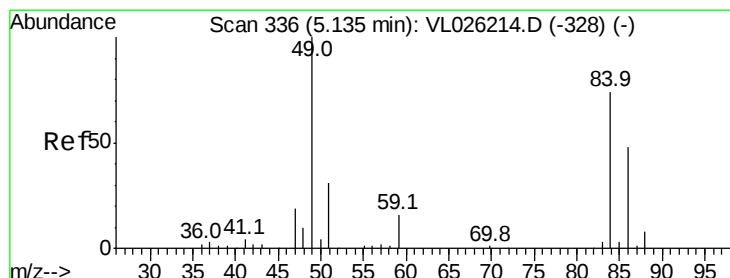
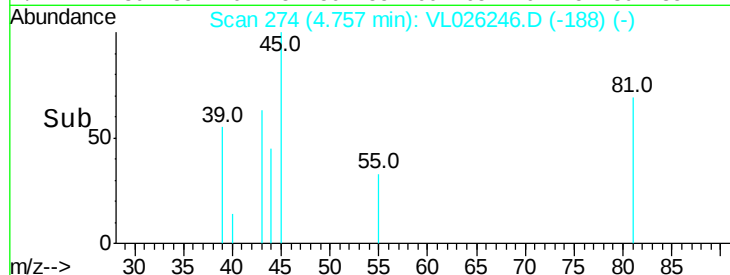
400

200

0

4.75 4.76 4.77

Time-->



#20

Methylene Chloride

Concen: 0.50 ppbv

RT: 5.12 min Scan# 334

Delta R.T. -0.01 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Tgt Ion: 84 Resp: 14155

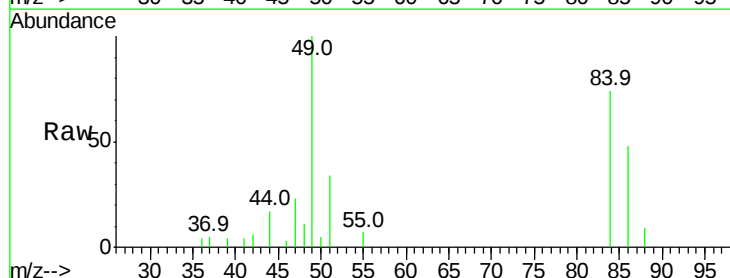
Ion Ratio Lower Upper

84 100

49 134.6 108.7 163.1

51 46.3 33.7 50.5

86 64.9 52.2 78.2



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

15000

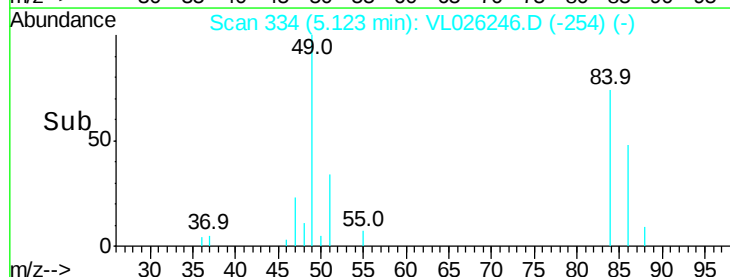
10000

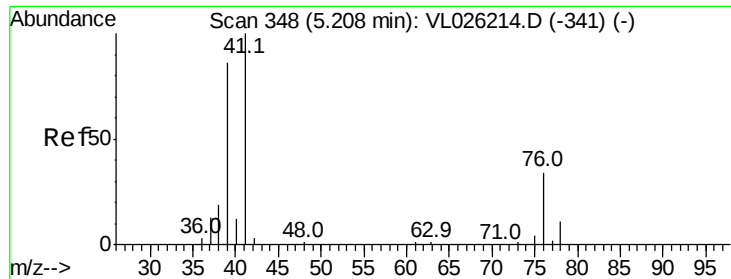
5000

0

5.10 5.12 5.15 5.20

Time-->





#21

Allyl Chloride

Concen: 0.04 ppbv

RT: 5.14 min Scan# 337

Delta R.T. -0.07 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

INF

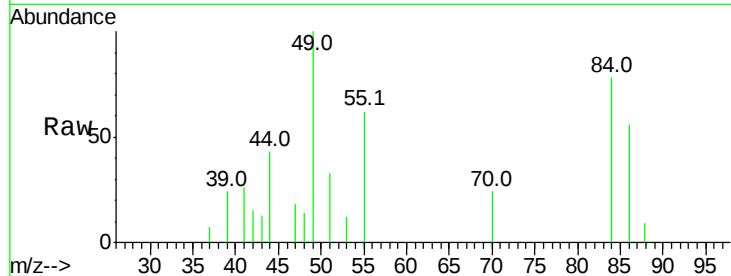
Tgt Ion: 41 Resp: 1998

Ion Ratio Lower Upper

41 100

76 0.0 26.6 39.8#

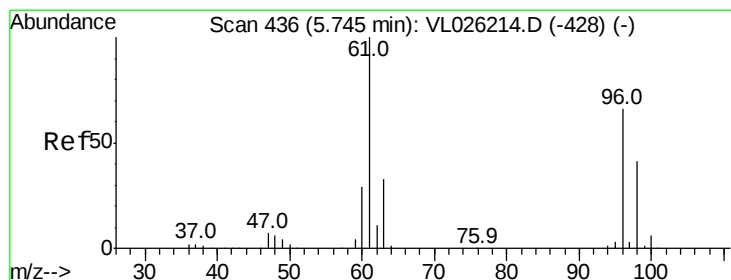
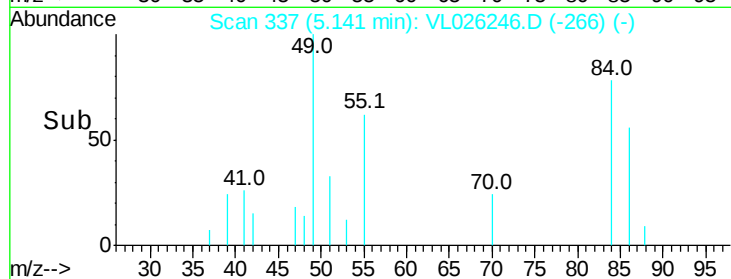
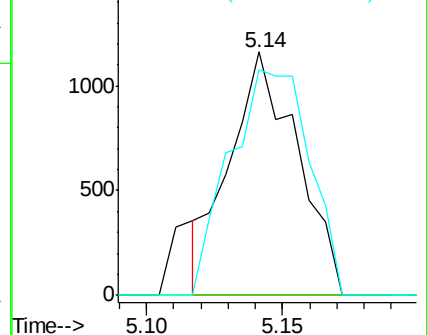
39 109.5 67.4 101.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 2.28 ppbv

RT: 5.74 min Scan# 435

Delta R.T. -0.01 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

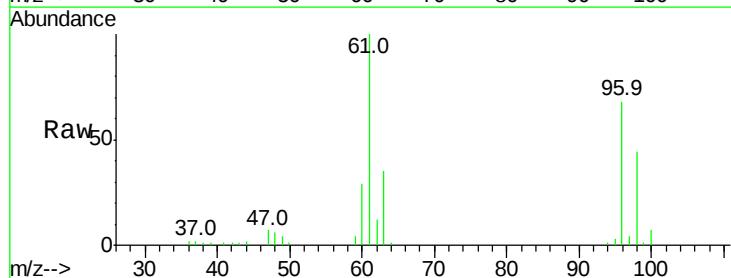
Tgt Ion: 96 Resp: 89138

Ion Ratio Lower Upper

96 100

61 145.5 121.5 182.3

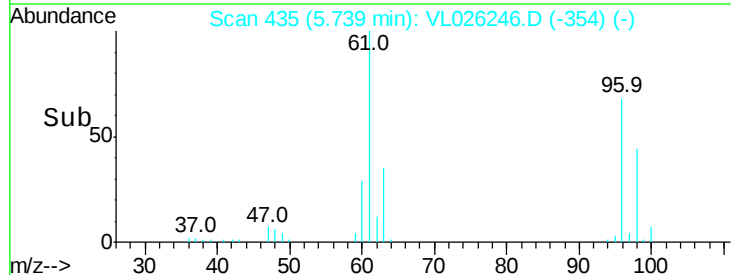
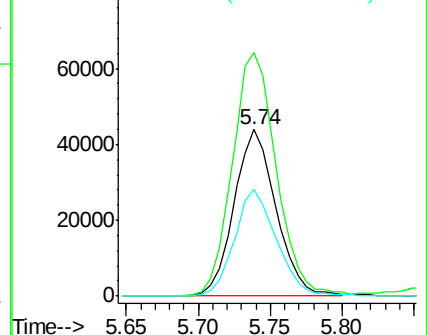
98 63.9 49.7 74.5

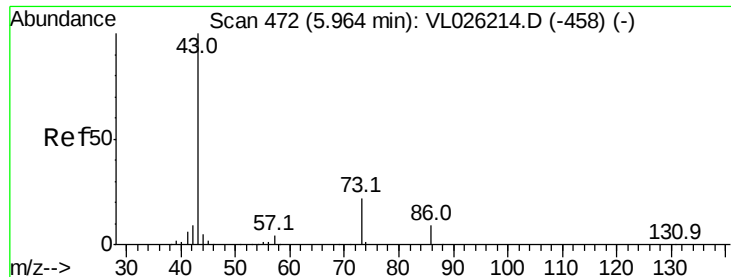


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.18 ppbv

RT: 5.98 min Scan# 475

Delta R.T. 0.02 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

INF

Tgt Ion: 43 Resp: 23657

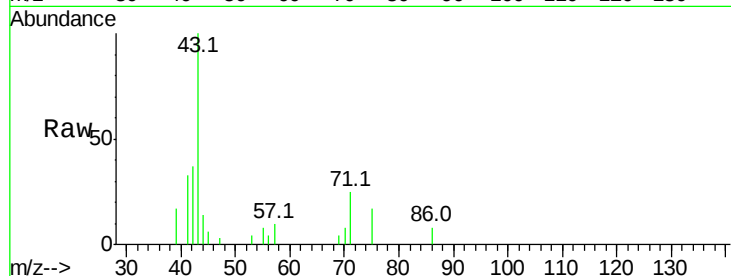
Ion Ratio Lower Upper

43 100

86 7.9 7.0 10.6

42 36.7 7.5 11.3#

44 6.2 3.6 5.4#

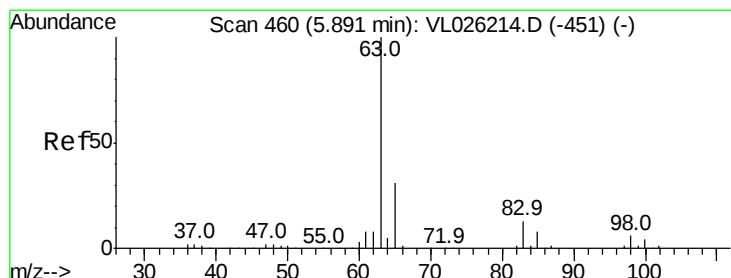
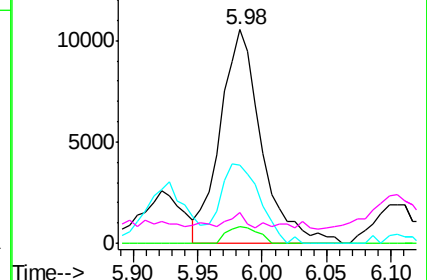
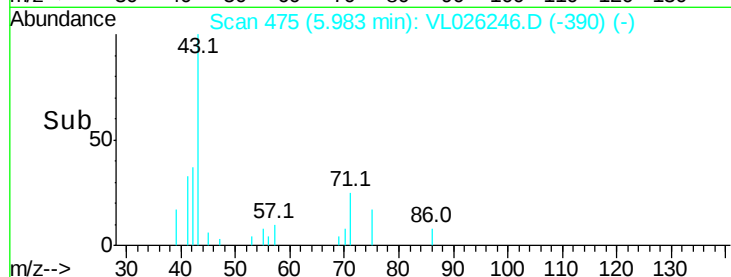


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 0.02 ppbv

RT: 5.89 min Scan# 459

Delta R.T. -0.01 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

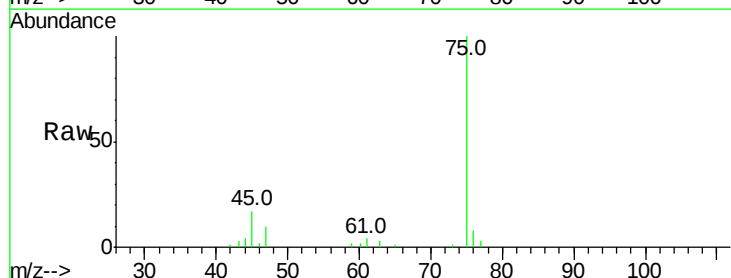
Tgt Ion: 63 Resp: 2020

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

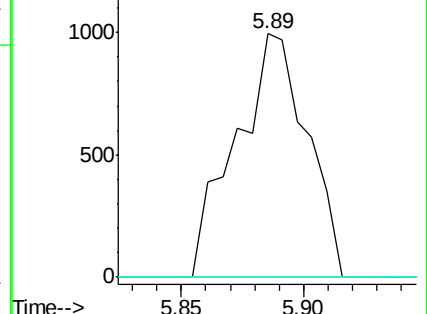
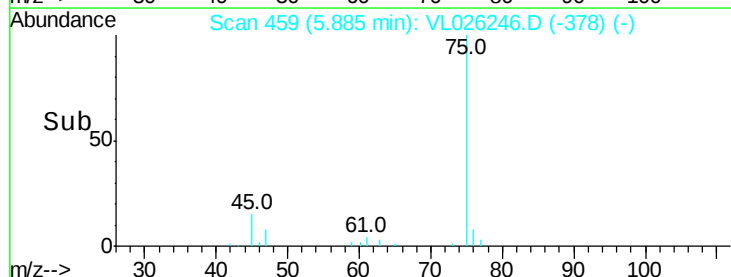
100 0.0 1.8 5.5#

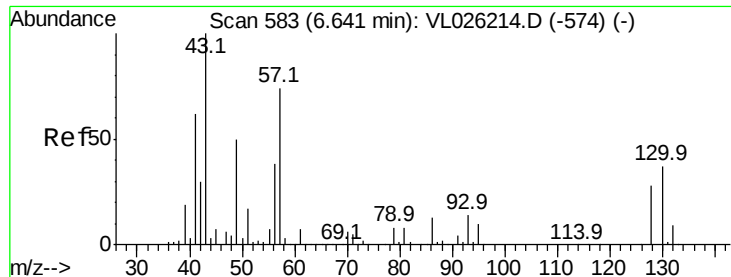


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

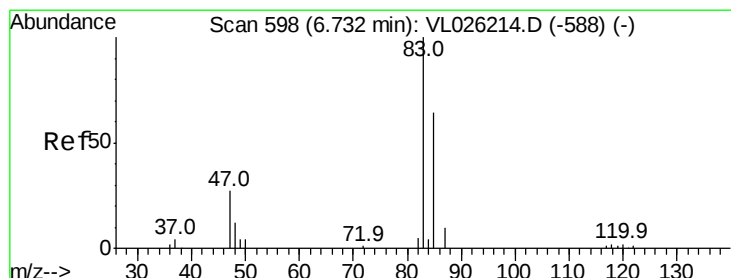
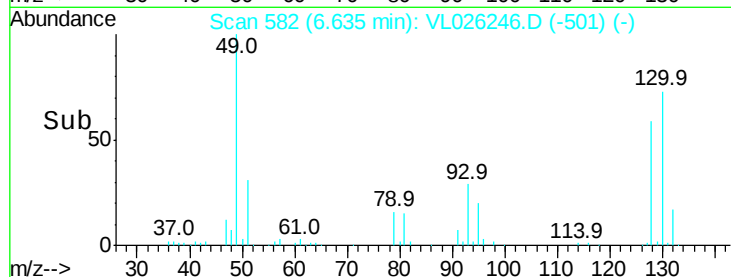
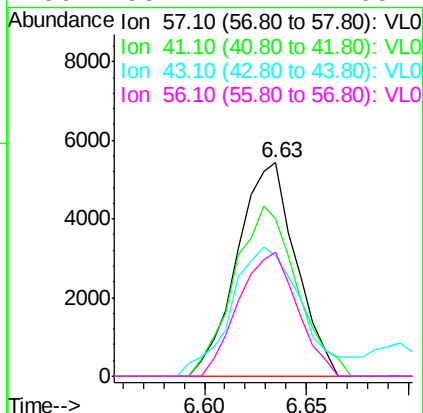
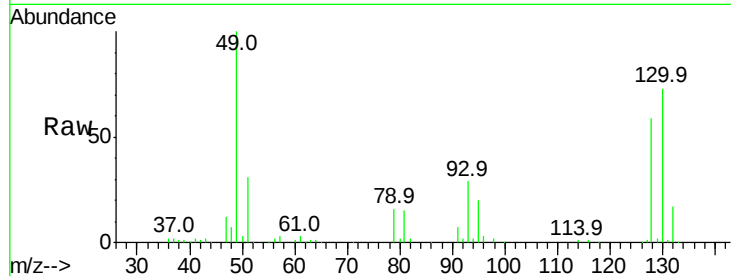




#26
Hexane
Concen: 0.16 ppbv
RT: 6.63 min Scan# 582
Delta R.T. -0.01 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

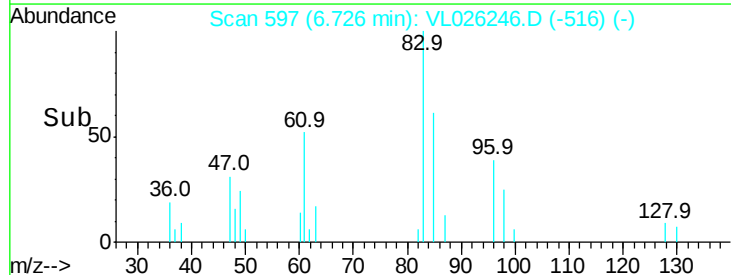
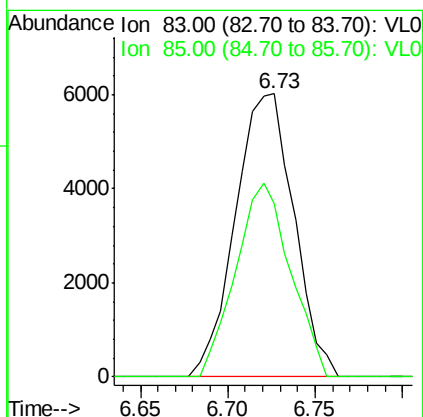
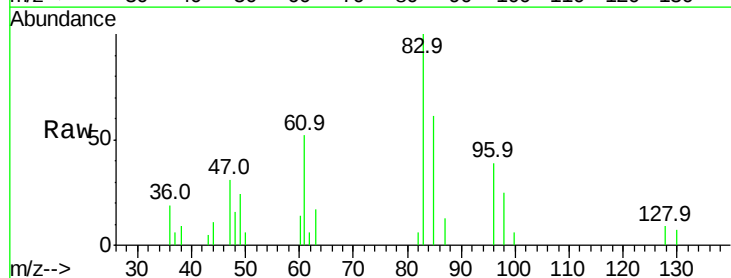
Instrument :
MSVOA_L
ClientSampleId :
INF

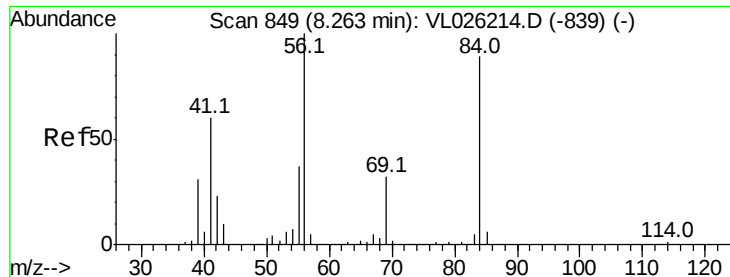
Tgt Ion: 57 Resp: 10852
Ion Ratio Lower Upper
57 100
41 85.4 68.1 102.1
43 90.8 163.4 245.2#
56 58.1 42.2 63.4



#29
Chloroform
Concen: 0.14 ppbv
RT: 6.73 min Scan# 597
Delta R.T. -0.01 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

Tgt Ion: 83 Resp: 14018
Ion Ratio Lower Upper
83 100
85 61.3 51.5 77.3

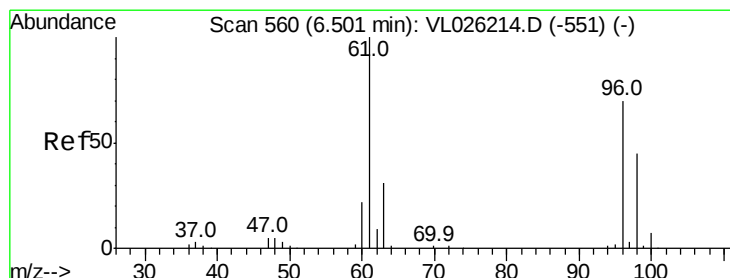
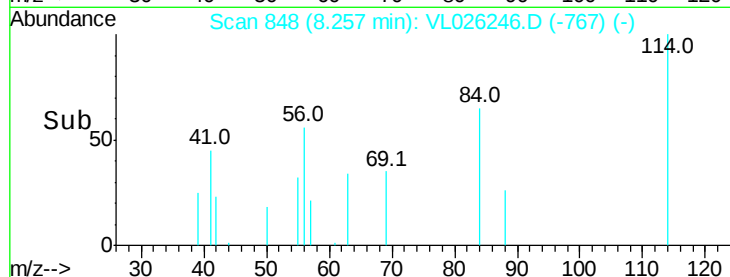
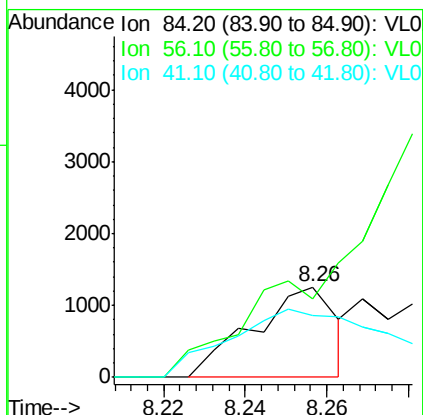
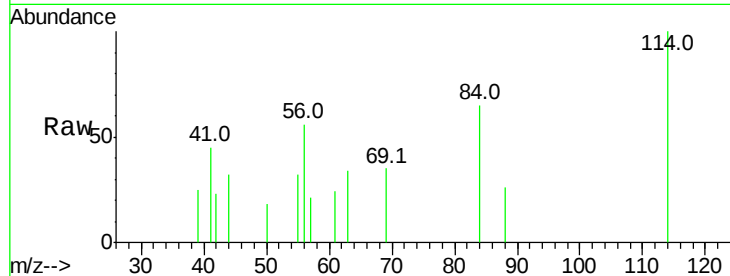




#30
Cyclohexane
Concen: 0.03 ppbv
RT: 8.26 min Scan# 848
Delta R.T. -0.01 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

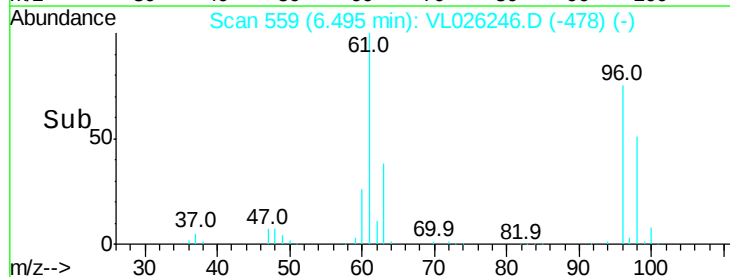
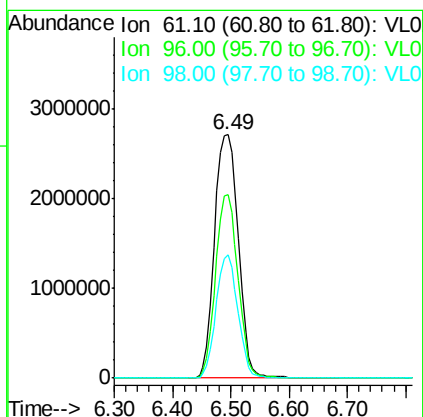
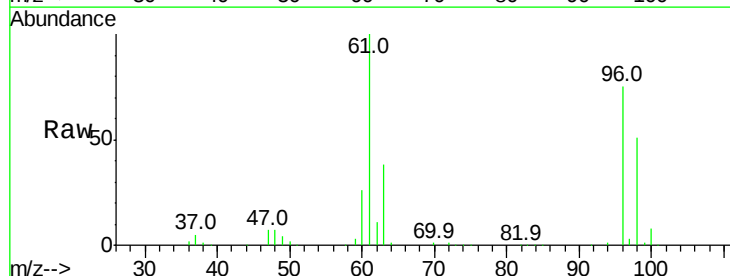
Instrument :
MSVOA_L
ClientSampleId :
INF

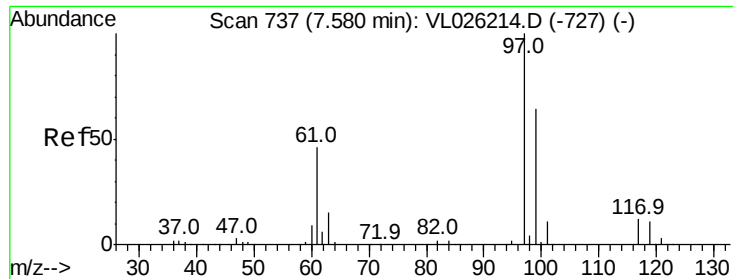
Tgt Ion: 84 Resp: 1787
Ion Ratio Lower Upper
84 100
56 0.0 95.9 143.9#
41 147.5 54.8 82.2#



#31
cis-1,2-Dichloroethene
Concen: 127.29 ppbv
RT: 6.49 min Scan# 559
Delta R.T. -0.01 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

Tgt Ion: 61 Resp: 7722681
Ion Ratio Lower Upper
61 100
96 75.4 56.0 84.0
98 50.6 36.1 54.1





#32

1,1,1-Trichloroethane

Concen: 1.50 ppbv

RT: 7.57 min Scan# 736

Delta R.T. -0.01 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

INF

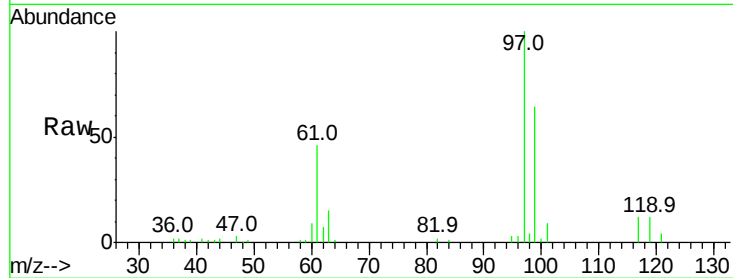
Tgt Ion: 97 Resp: 161701

Ion Ratio Lower Upper

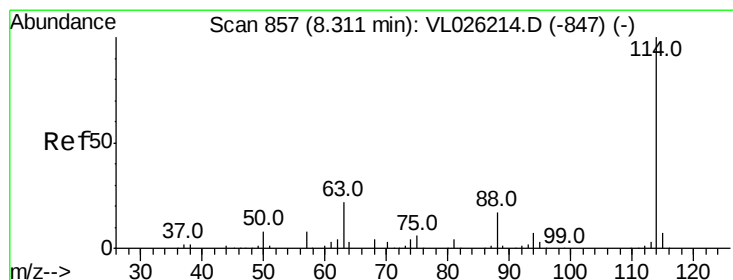
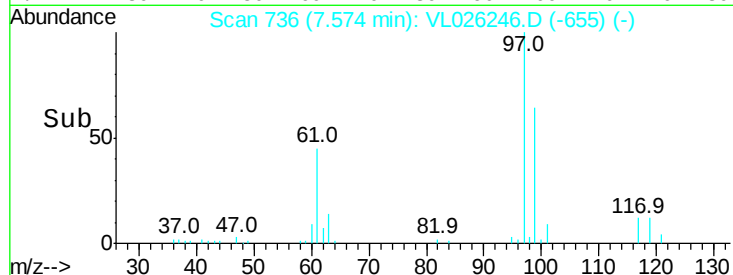
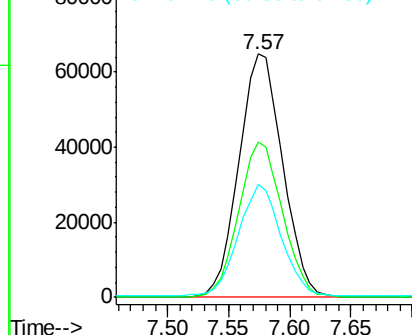
97 100

99 63.7 51.4 77.0

61 46.3 36.2 54.4



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.31 min Scan# 857

Delta R.T. 0.00 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

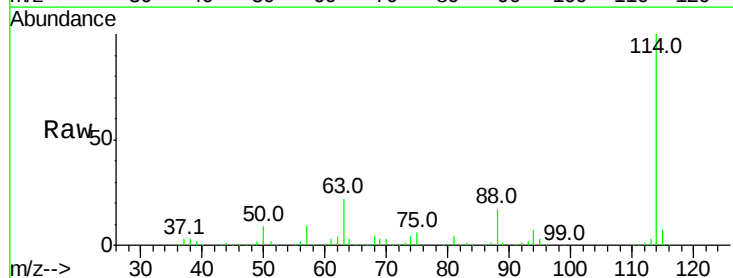
Tgt Ion: 114 Resp: 1383556

Ion Ratio Lower Upper

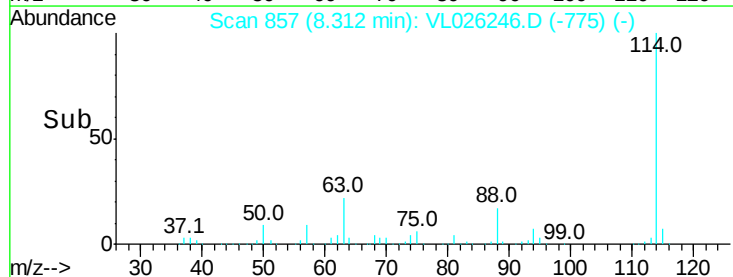
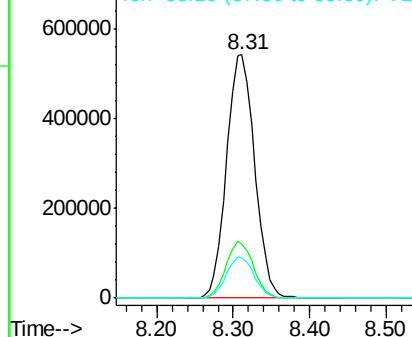
114 100

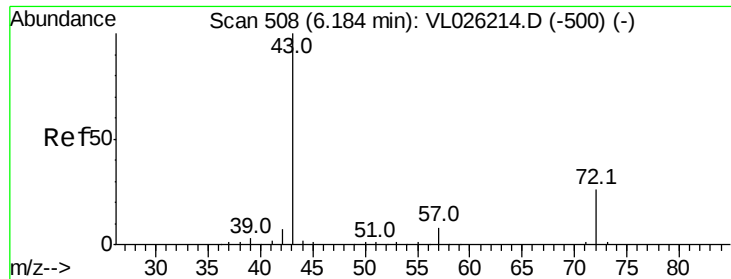
63 22.7 18.2 27.4

88 16.7 13.5 20.3



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: 0.29 ppbv

RT: 6.21 min Scan# 513

Delta R.T. 0.03 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

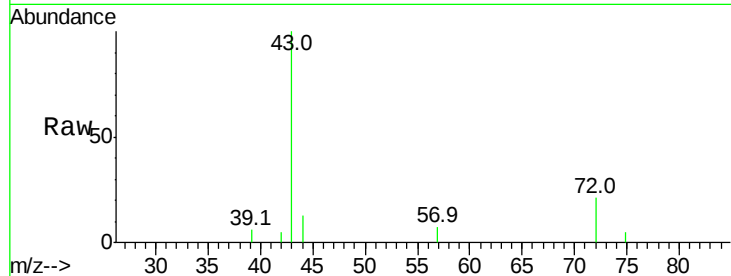
INF

Tgt Ion: 43 Resp: 22740

Ion Ratio Lower Upper

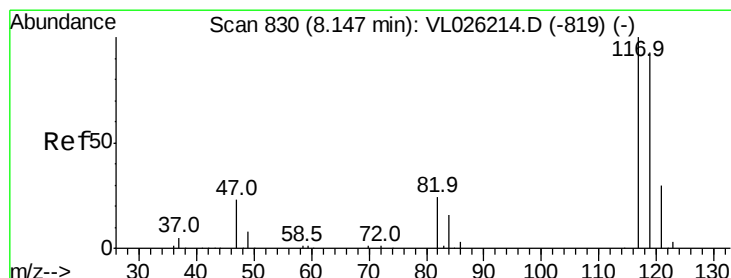
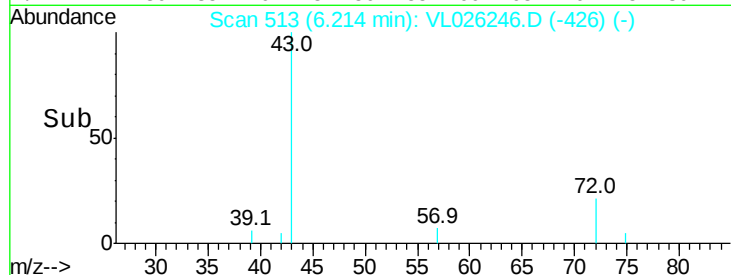
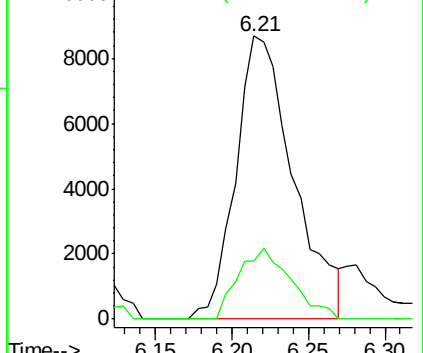
43 100

72 22.8 20.1 30.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.02 ppbv

RT: 8.15 min Scan# 830

Delta R.T. 0.00 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

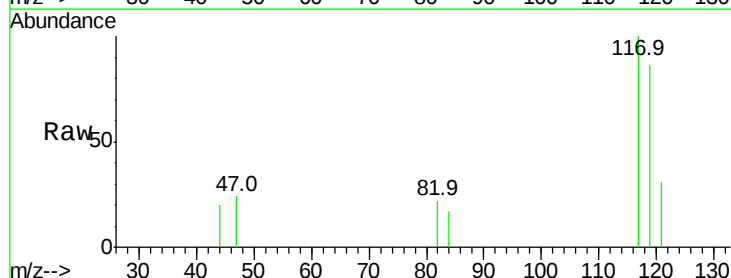
Tgt Ion: 117 Resp: 2597

Ion Ratio Lower Upper

117 100

119 86.2 74.6 111.8

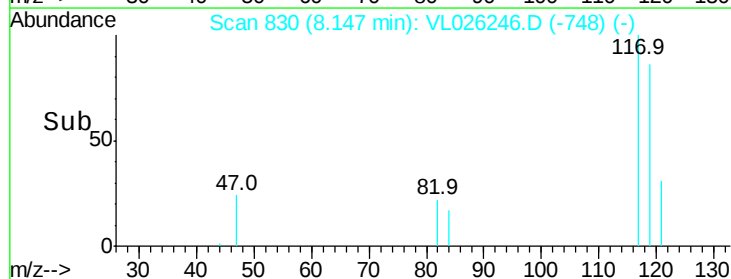
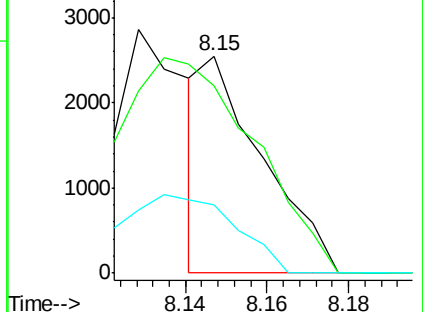
121 31.5 24.2 36.2

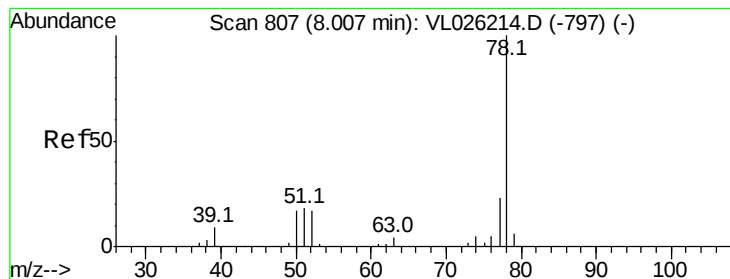


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.08 ppbv

RT: 8.01 min Scan# 807

Delta R.T. 0.00 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

INF

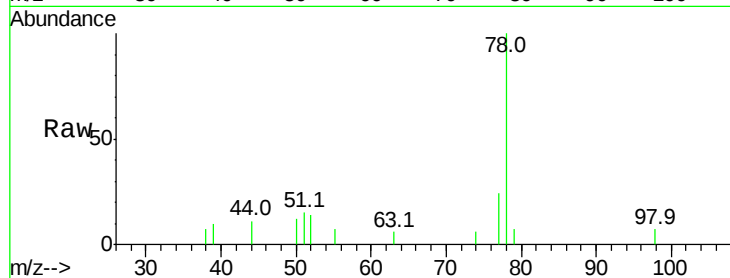
Tgt Ion: 78 Resp: 11177

Ion Ratio Lower Upper

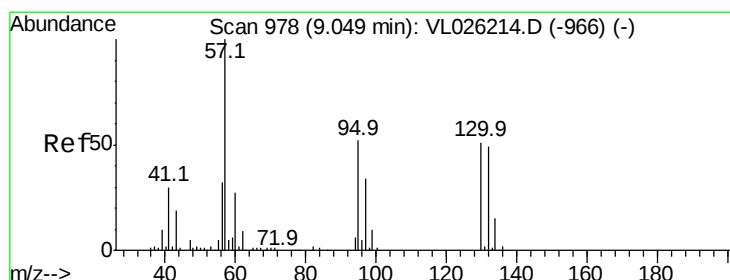
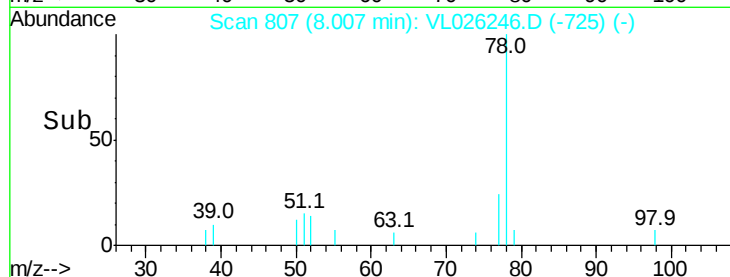
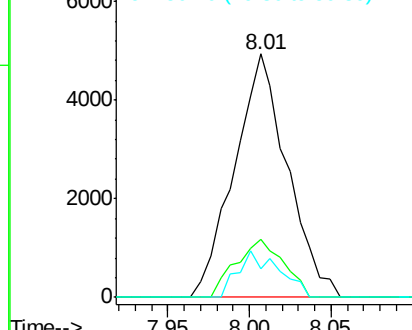
78 100

77 23.7 18.1 27.1

50 11.8 13.8 20.8#



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



#38

Trichloroethene

Concen: 155.15 ppbv

RT: 9.06 min Scan# 979

Delta R.T. 0.01 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Tgt Ion:130 Resp:10607029

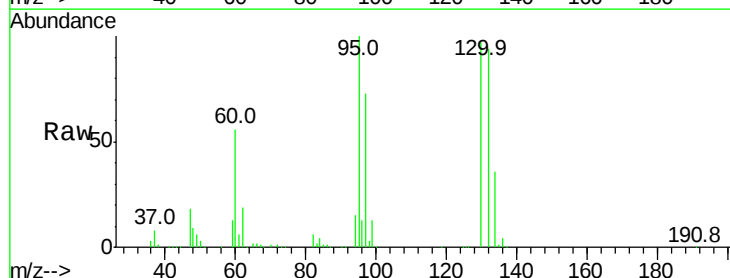
Ion Ratio Lower Upper

130 100

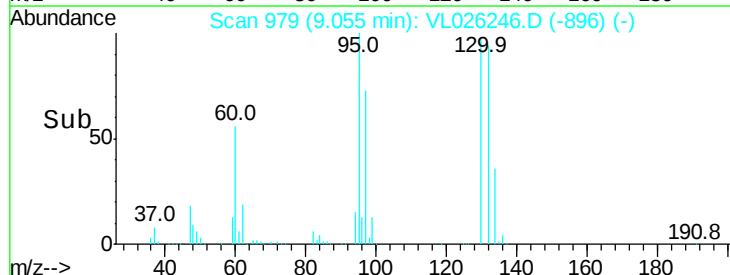
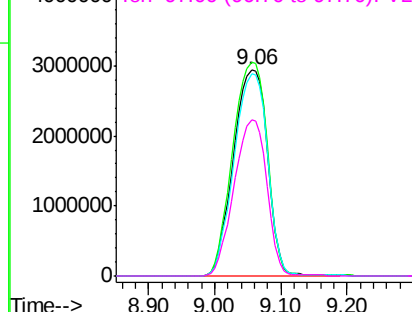
95 103.5 81.0 121.4

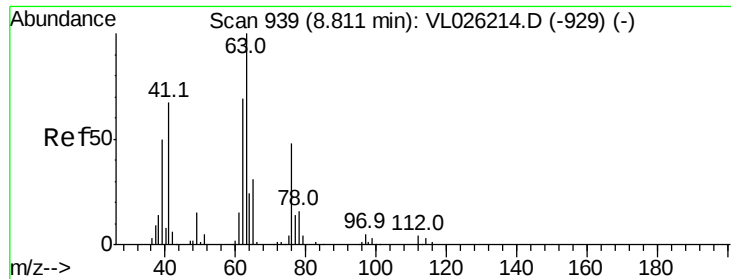
132 97.7 76.5 114.7

97 75.3 52.5 78.7



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0

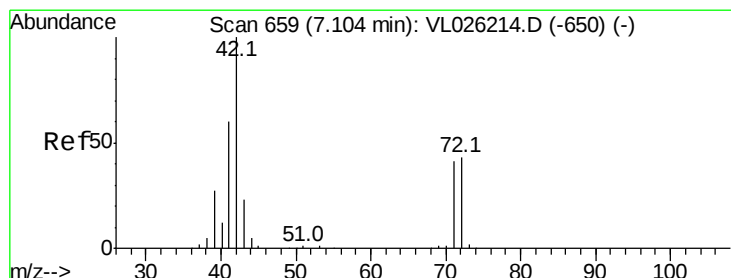
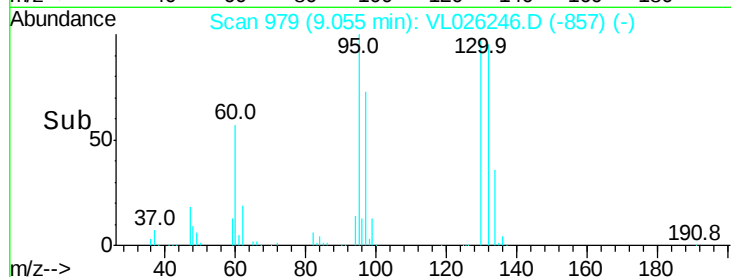
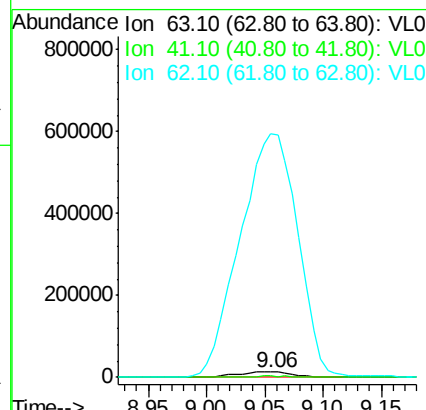
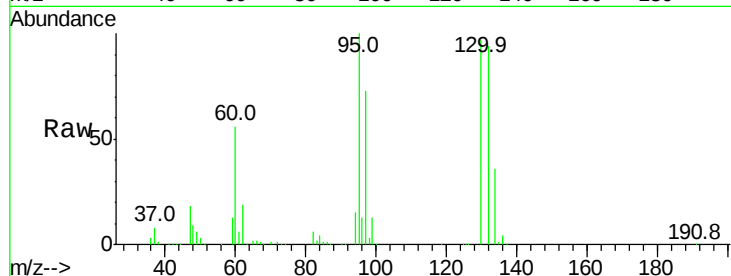




#39
 1,2-Dichloropropane
 Concen: 0.93 ppbv
 RT: 9.06 min Scan# 979
 Delta R.T. 0.24 min
 Lab File: VL026246.D
 Acq: 21 Oct 2015 20:26

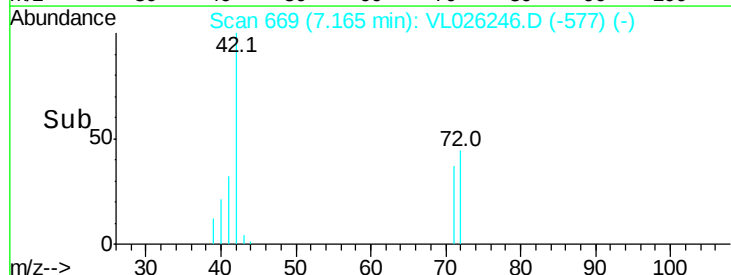
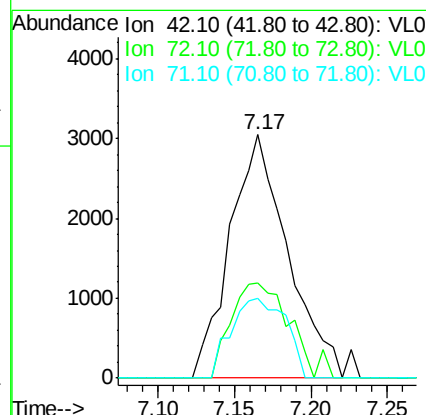
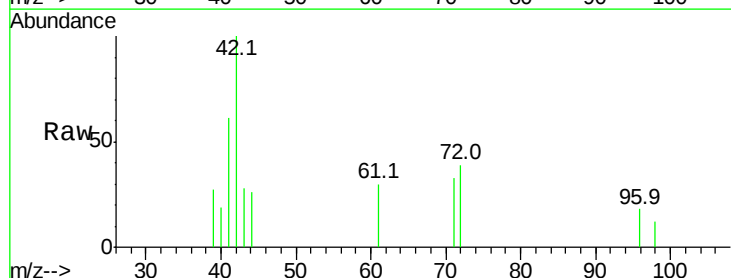
Instrument :
 MSVOA_L
 ClientSampleId :
 INF

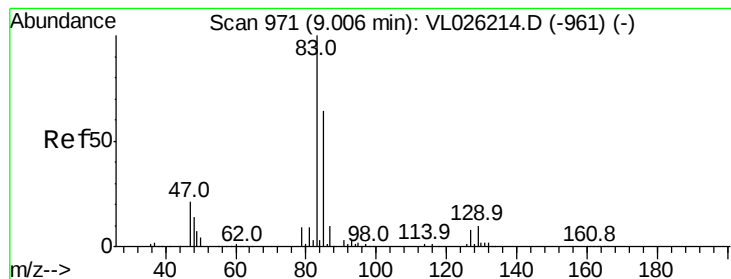
Tgt Ion: 63 Resp: 45942
 Ion Ratio Lower Upper
 63 100
 41 19.8 53.2 79.8#
 62 4415.3 55.4 83.2#



#41
 Tetrahydrofuran
 Concen: 0.18 ppbv
 RT: 7.17 min Scan# 669
 Delta R.T. 0.06 min
 Lab File: VL026246.D
 Acq: 21 Oct 2015 20:26

Tgt Ion: 42 Resp: 8003
 Ion Ratio Lower Upper
 42 100
 72 39.7 34.3 51.5
 71 30.9 32.1 48.1#





#42

Bromodichloromethane

Concen: 1.56 ppbv

RT: 9.06 min Scan# 979

Delta R.T. 0.05 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

INF

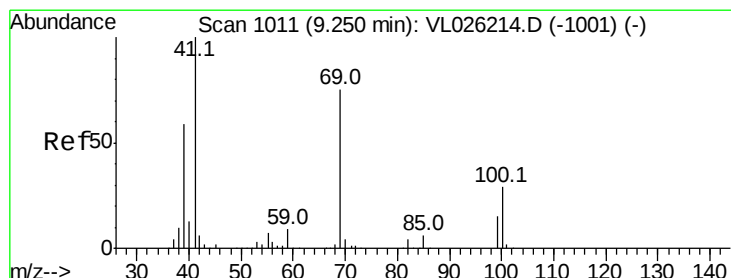
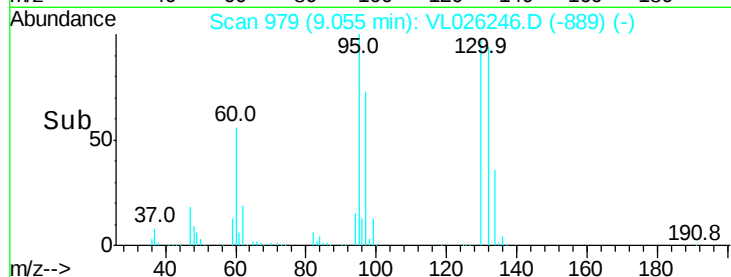
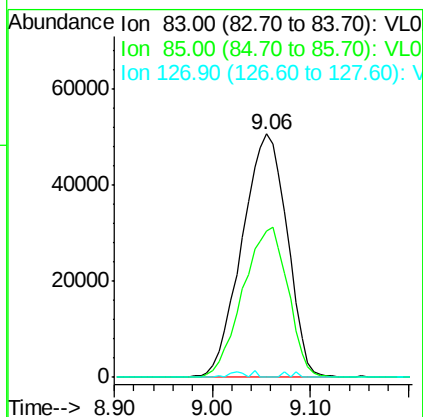
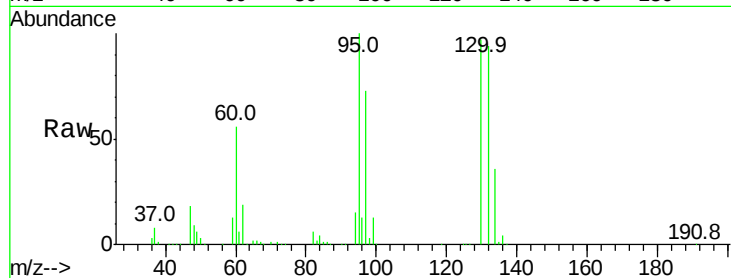
Tgt Ion: 83 Resp: 162779

Ion Ratio Lower Upper

83 100

85 59.9 50.9 76.3

127 0.0 6.2 9.4#



#43

Methyl Methacrylate

Concen: 0.03 ppbv

RT: 9.41 min Scan# 1038

Delta R.T. 0.16 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

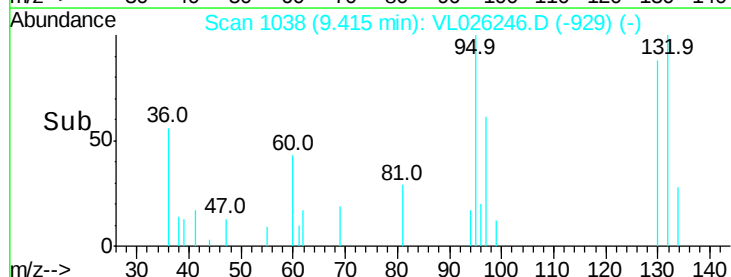
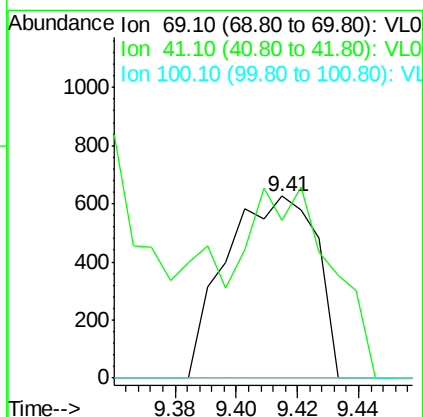
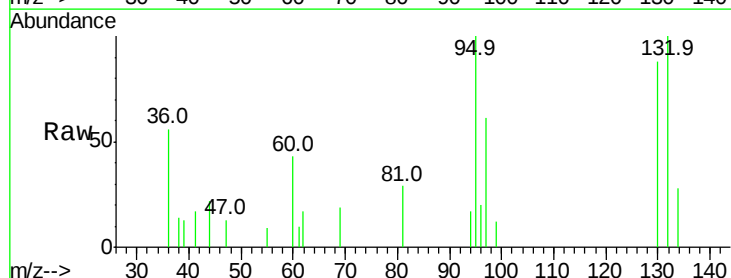
Tgt Ion: 69 Resp: 1290

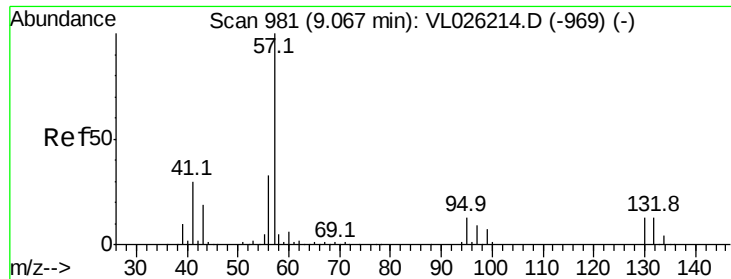
Ion Ratio Lower Upper

69 100

41 468.8 108.4 162.6#

100 0.0 30.6 45.8#





#44

2,2,4-Trimethylpentane

Concen: 0.02 ppbv

RT: 9.08 min Scan# 983

Delta R.T. 0.01 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

INF

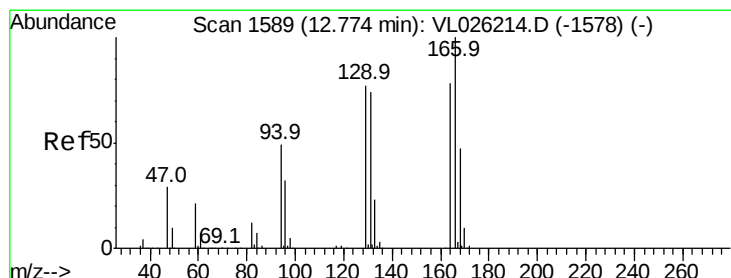
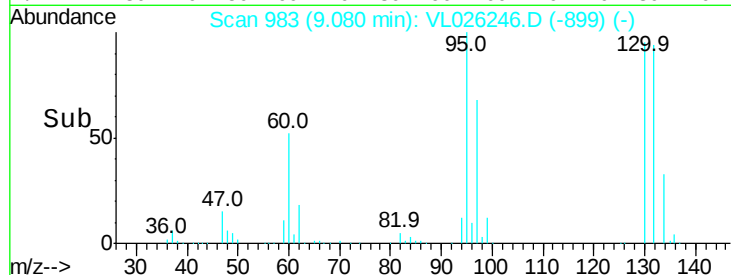
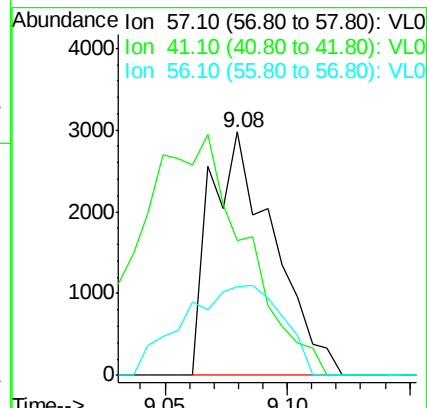
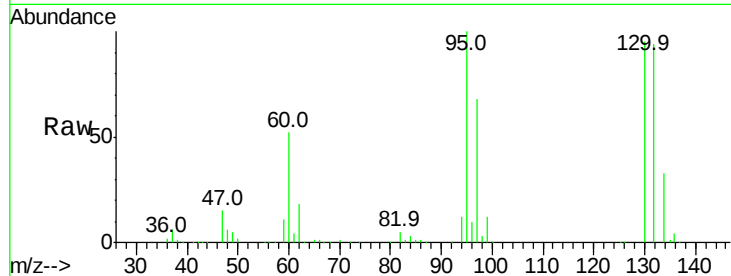
Tgt Ion: 57 Resp: 5341

Ion Ratio Lower Upper

57 100

41 189.3 23.7 35.5#

56 57.9 25.9 38.9#



#52

Tetrachloroethene

Concen: 903.51 ppbv

RT: 13.08 min Scan# 1639

Delta R.T. 0.30 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Tgt Ion:164 Resp:73014726

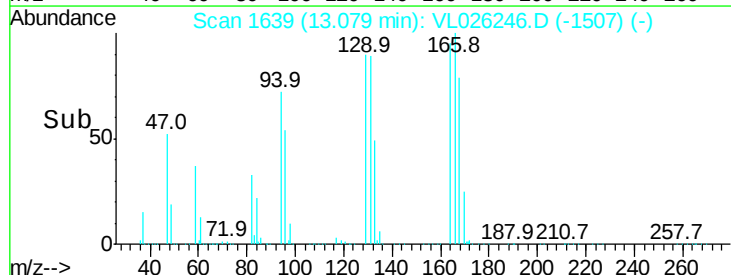
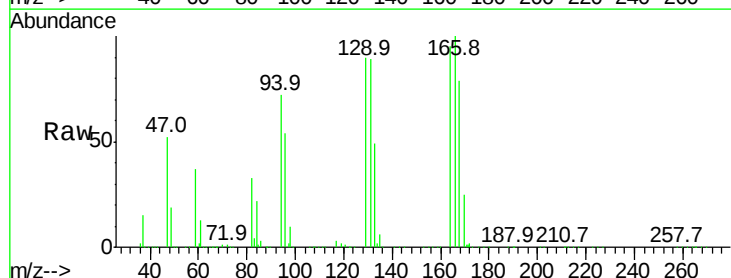
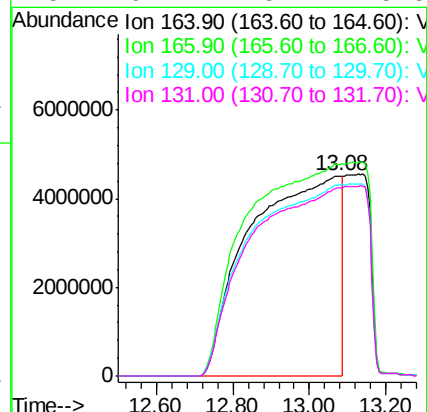
Ion Ratio Lower Upper

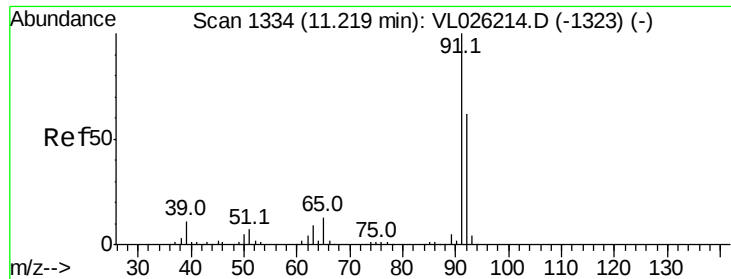
164 100

166 105.7 102.3 153.5

129 95.4 78.2 117.4

131 94.2 75.7 113.5





#53

Toluene

Concen: 0.16 ppbv

RT: 11.22 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

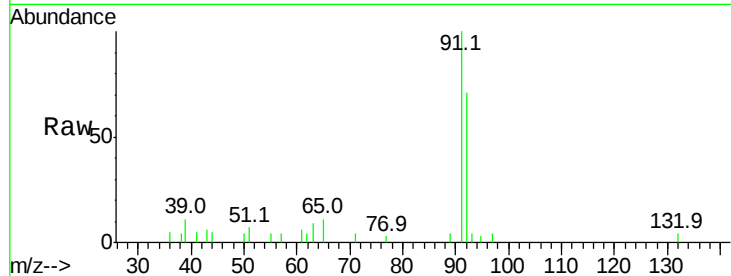
INF

Tgt Ion: 91 Resp: 30793

Ion Ratio Lower Upper

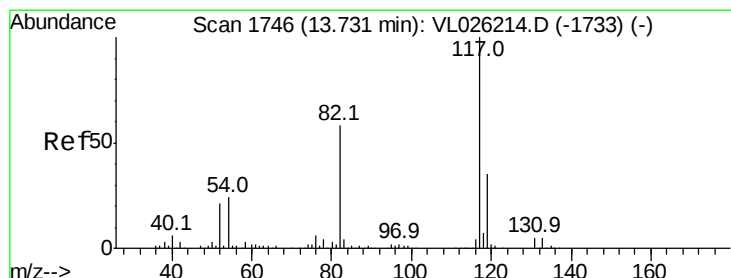
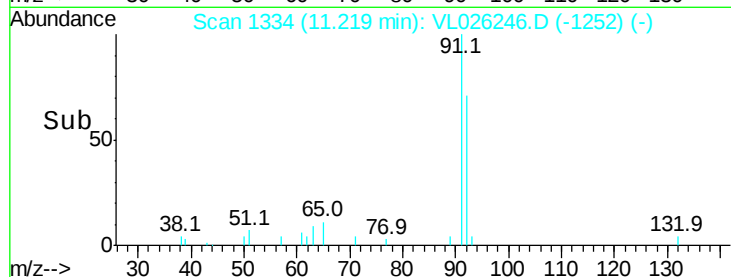
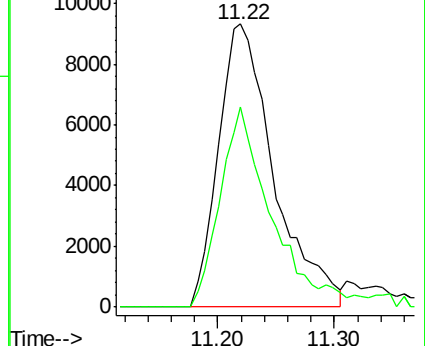
91 100

92 67.9 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.89 min Scan# 1772

Delta R.T. 0.16 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

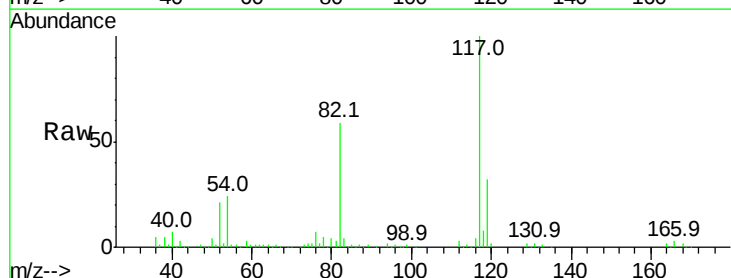
Tgt Ion: 117 Resp: 1601133

Ion Ratio Lower Upper

117 100

82 59.1 45.8 68.8

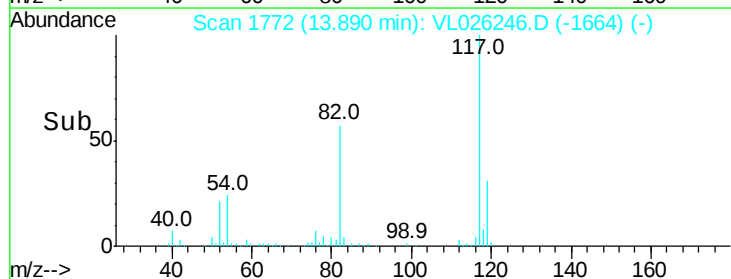
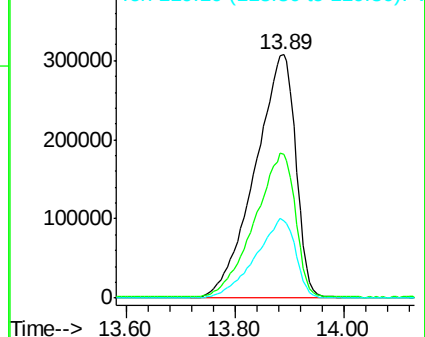
119 32.4 45.0 67.4#

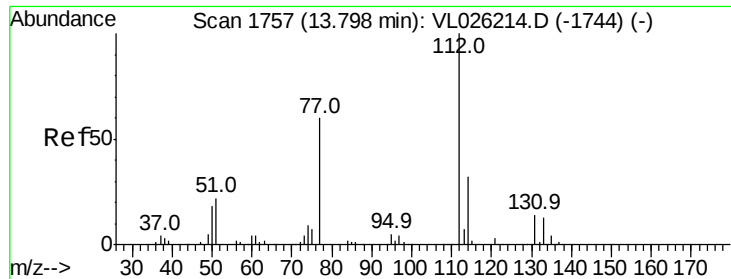


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

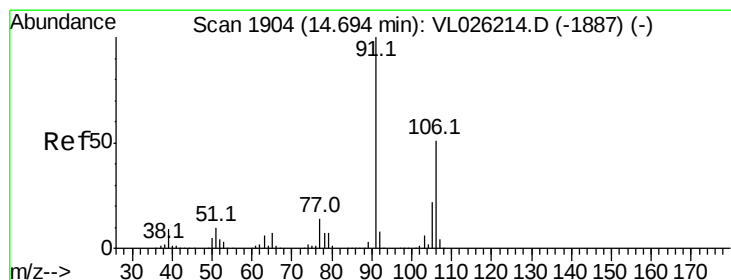
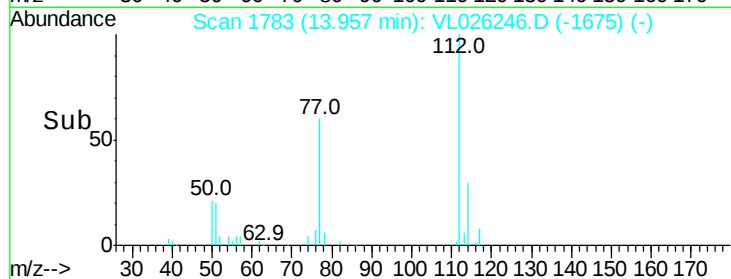
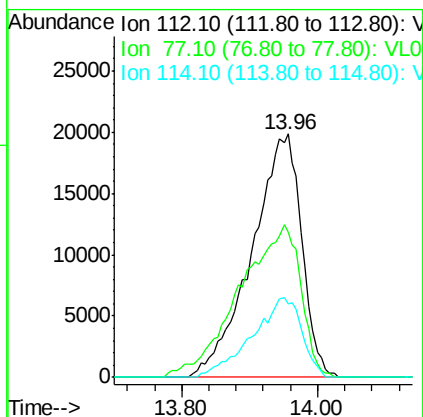
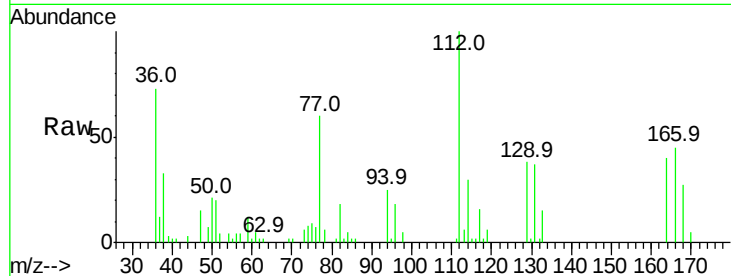




#57
Chlorobenzene
Concen: 0.66 ppbv
RT: 13.96 min Scan# 1783
Delta R.T. 0.16 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

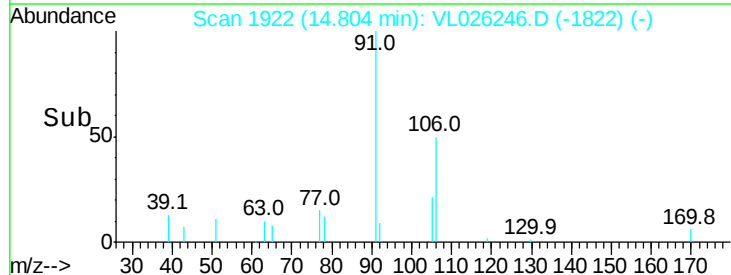
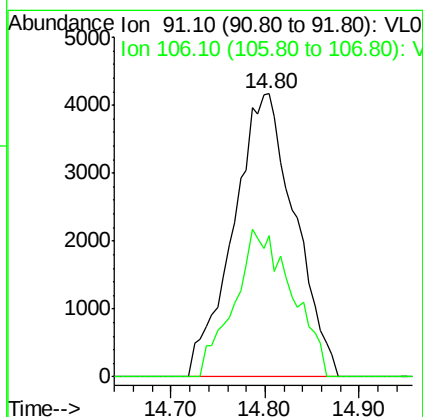
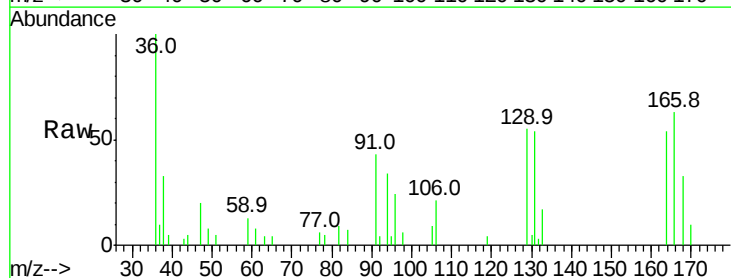
Instrument :
MSVOA_L
ClientSampleId :
INF

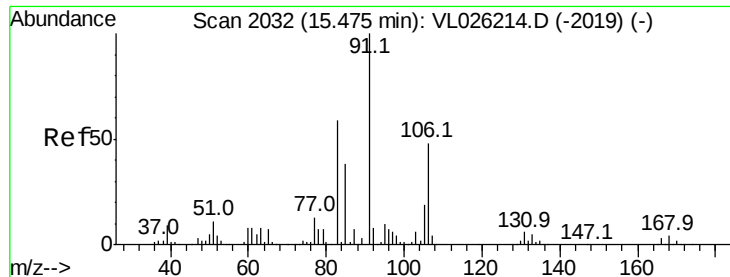
Tgt Ion: 112 Resp: 100901
Ion Ratio Lower Upper
112 100
77 59.5 48.4 72.6
114 30.2 29.0 35.4



#59
m/p-Xylene
Concen: 0.09 ppbv
RT: 14.80 min Scan# 1922
Delta R.T. 0.11 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

Tgt Ion: 91 Resp: 19045
Ion Ratio Lower Upper
91 100
106 48.8 40.6 61.0

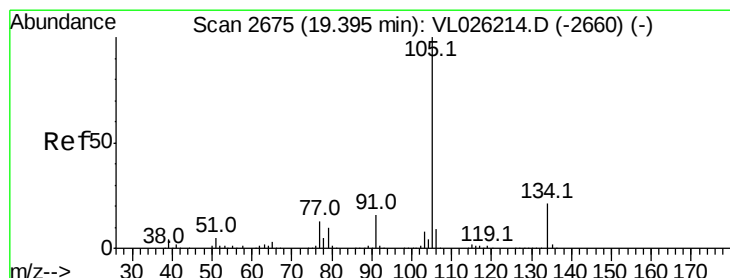
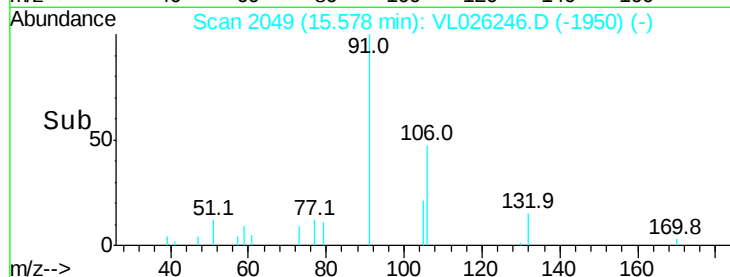
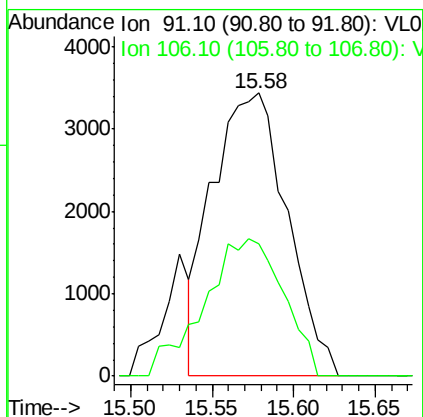
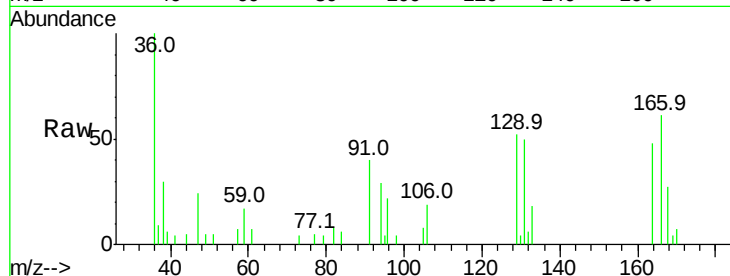




#60
o-Xylene
Concen: 0.05 ppbv
RT: 15.58 min Scan# 2049
Delta R.T. 0.10 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

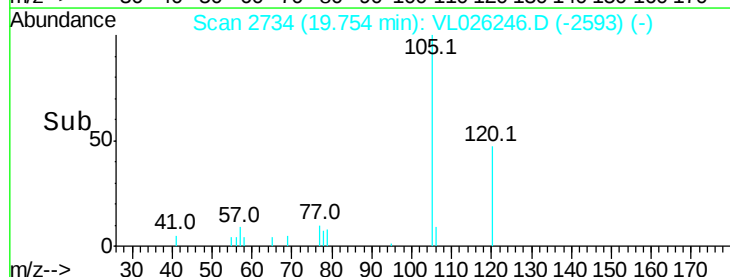
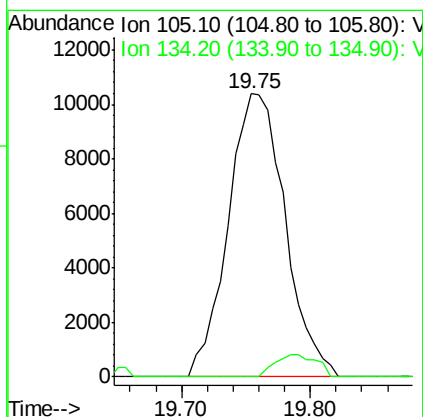
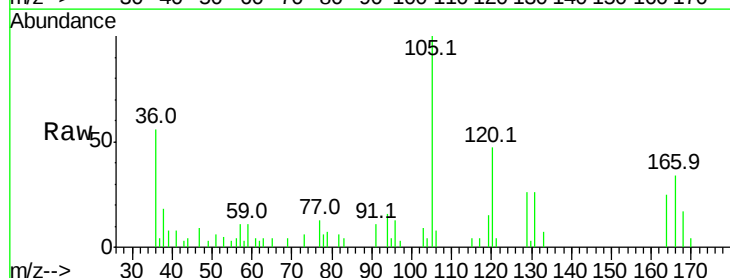
Instrument :
MSVOA_L
ClientSampleId :
INF

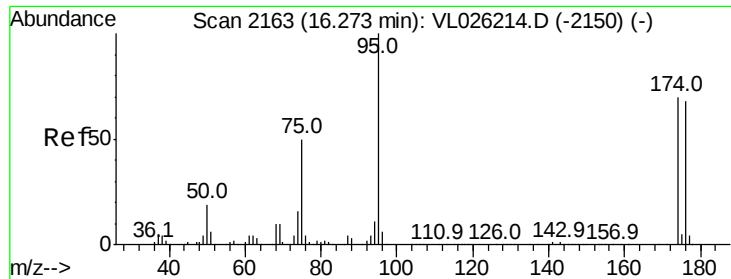
Tgt Ion: 91 Resp: 10946
Ion Ratio Lower Upper
91 100
106 51.4 23.8 71.5



#67
sec-Butylbenzene
Concen: 0.08 ppbv
RT: 19.75 min Scan# 2734
Delta R.T. 0.36 min
Lab File: VL026246.D
Acq: 21 Oct 2015 20:26

Tgt Ion: 105 Resp: 31878
Ion Ratio Lower Upper
105 100
134 5.7 16.2 24.4#

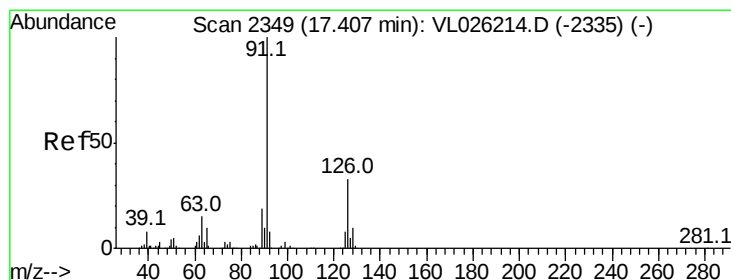
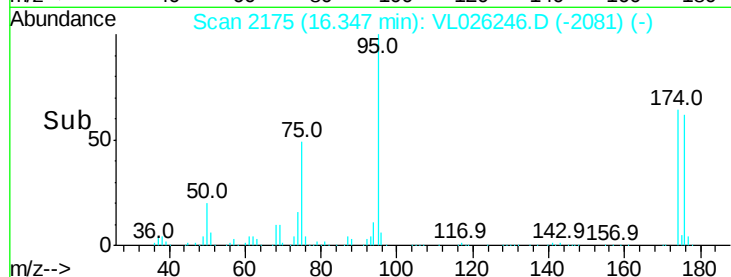
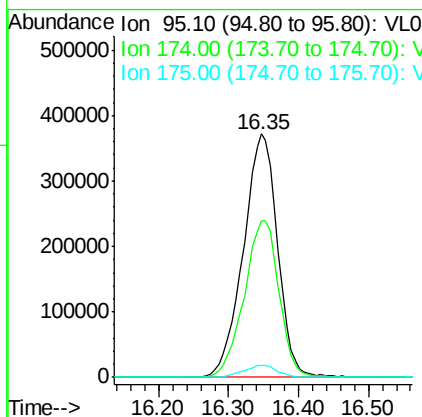
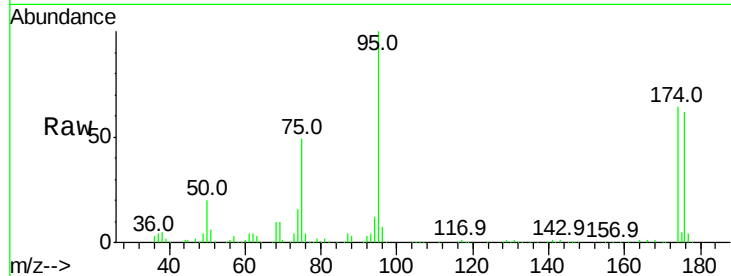




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.23 ppbv
 RT: 16.35 min Scan# 2175
 Delta R.T. 0.07 min
 Lab File: VL026246.D
 Acq: 21 Oct 2015 20:26

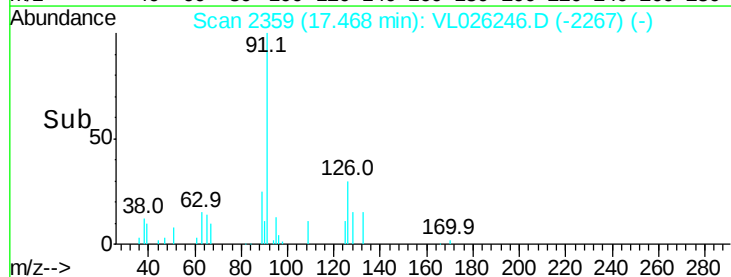
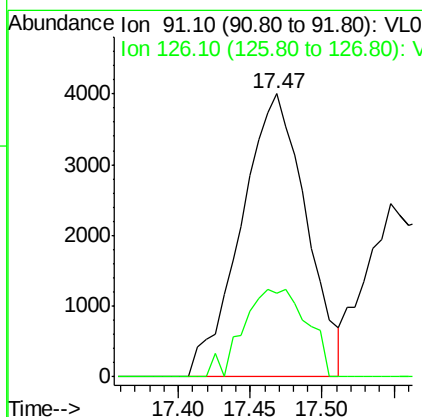
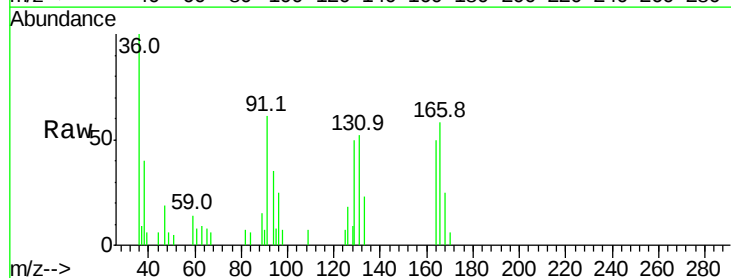
Instrument :
 MSVOA_L
 ClientSampleId :
 INF

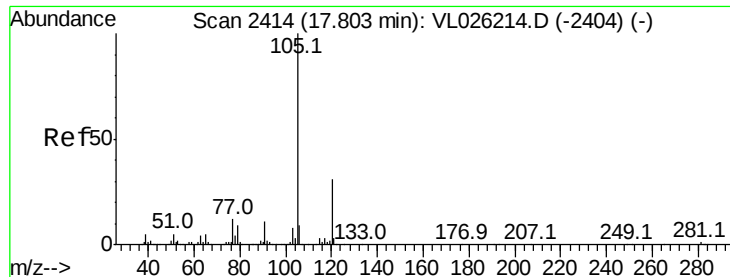
Tgt Ion: 95 Resp: 1262969
 Ion Ratio Lower Upper
 95 100
 174 65.5 55.8 83.8
 175 4.9 4.3 6.5



#71
 2-Chlorotoluene
 Concen: 0.06 ppbv
 RT: 17.47 min Scan# 2359
 Delta R.T. 0.06 min
 Lab File: VL026246.D
 Acq: 21 Oct 2015 20:26

Tgt Ion: 91 Resp: 12584
 Ion Ratio Lower Upper
 91 100
 126 30.2 12.9 51.7





#72

4-Ethyltoluene

Concen: 0.09 ppbv

RT: 18.01 min Scan# 2448

Delta R.T. 0.21 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

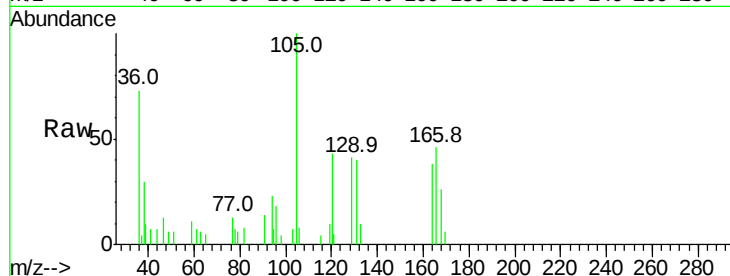
Instrument :

MSVOA_L

ClientSampleId :

INF

Tgt Ion:	105	Resp:	21206
Ion	Ratio	Lower	Upper
105	100		
120	46.5	25.2	37.8#
91	9.4	9.0	13.6
77	12.4	9.7	14.5

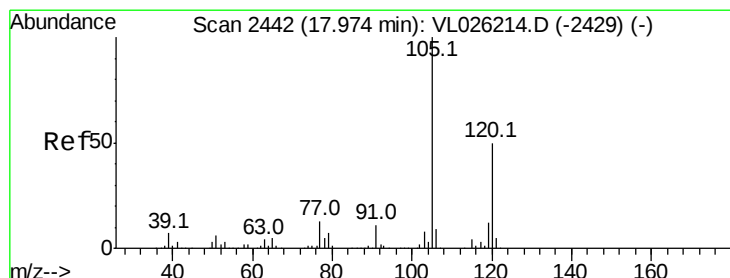
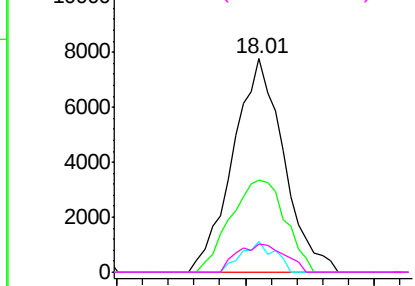
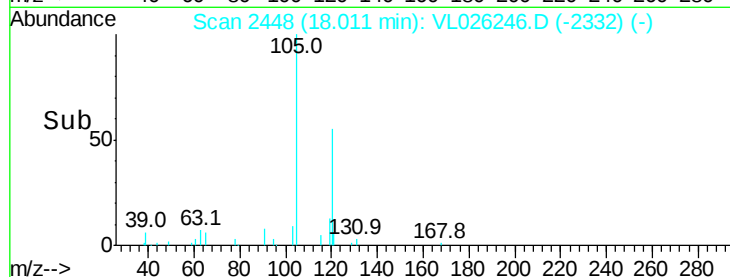


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.09 ppbv

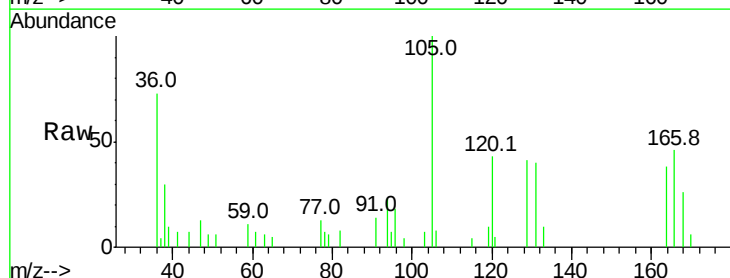
RT: 18.01 min Scan# 2448

Delta R.T. 0.04 min

Lab File: VL026246.D

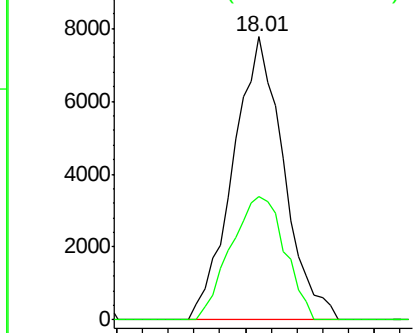
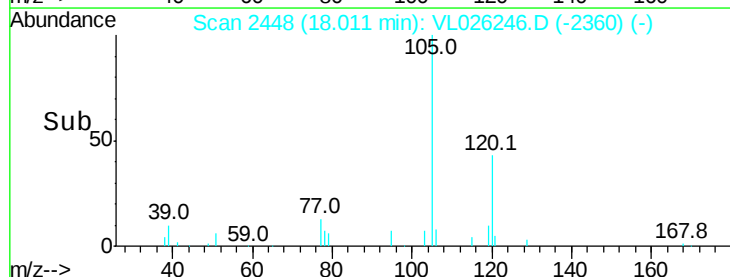
Acq: 21 Oct 2015 20:26

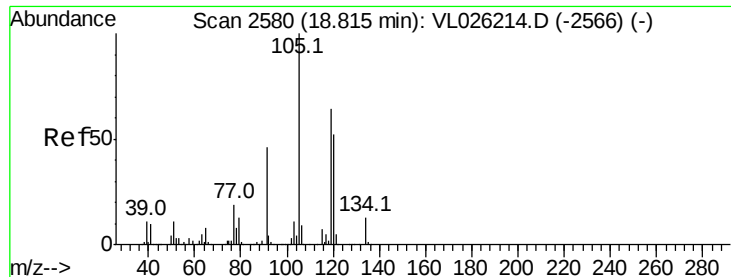
Tgt Ion:	105	Resp:	21206
Ion	Ratio	Lower	Upper
105	100		
120	48.3	39.8	59.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.25 ppbv

RT: 18.85 min Scan# 2585

Delta R.T. 0.03 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

INF

Tgt Ion:105 Resp: 59678

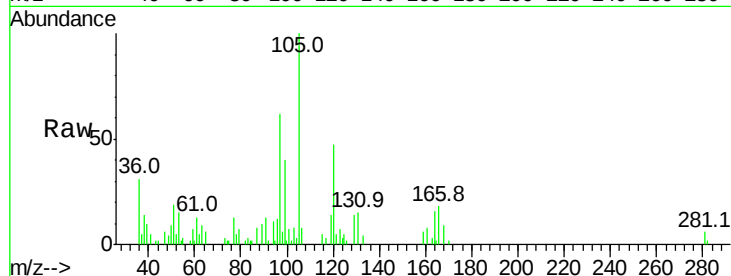
Ion Ratio Lower Upper

105 100

120 46.6 41.2 61.8

91 13.2 37.2 55.8#

77 13.5 15.6 23.4#

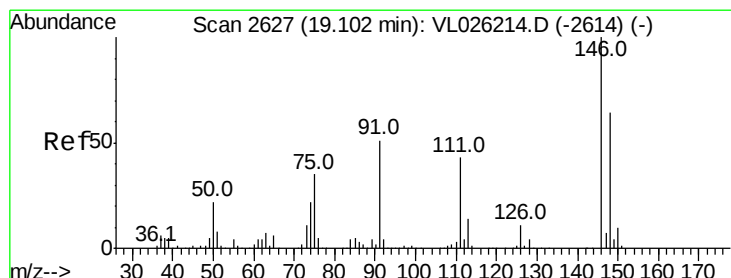
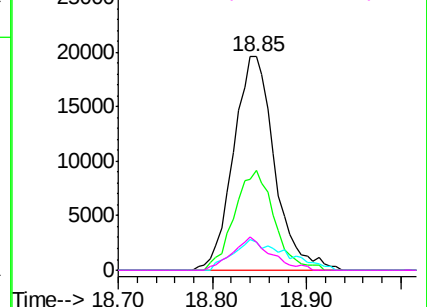
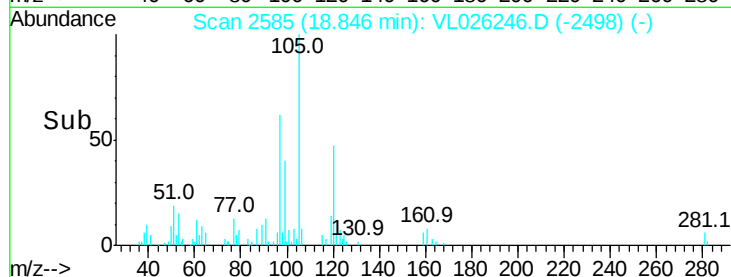


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.18 ppbv

RT: 19.28 min Scan# 2656

Delta R.T. 0.18 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

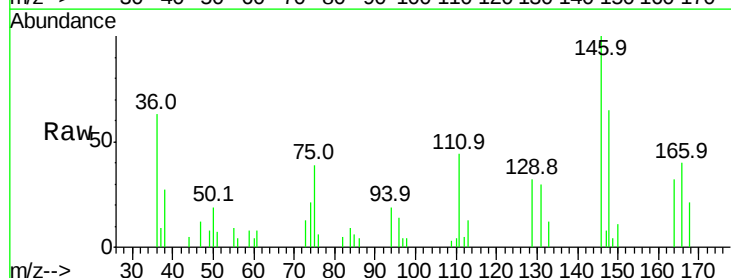
Tgt Ion:146 Resp: 27466

Ion Ratio Lower Upper

146 100

111 41.8 21.6 64.8

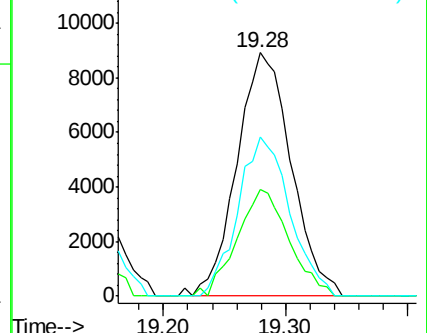
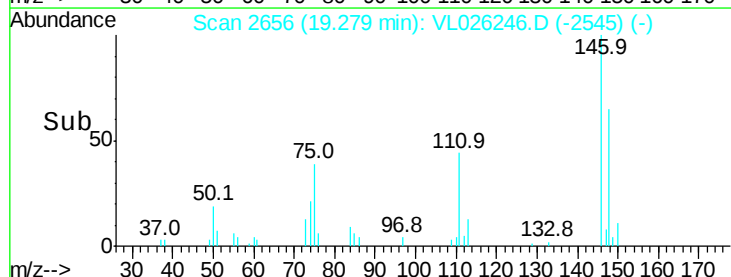
148 62.6 31.8 95.4

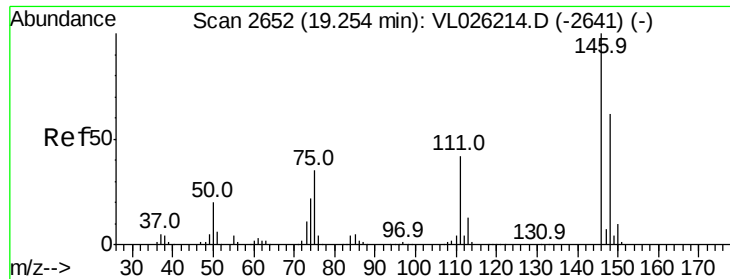


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 0.17 ppbv

RT: 19.28 min Scan# 2656

Delta R.T. 0.02 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

Instrument :

MSVOA_L

ClientSampleId :

INF

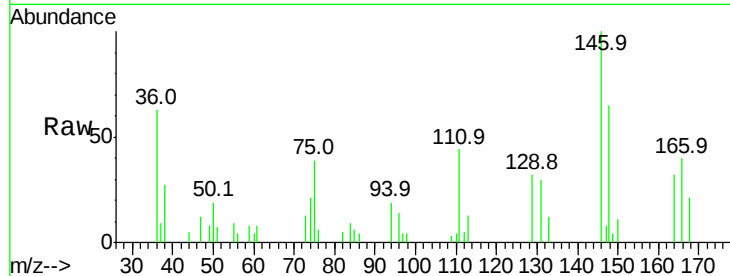
Tgt Ion:146 Resp: 27466

Ion Ratio Lower Upper

146 100

111 41.8 20.8 62.2

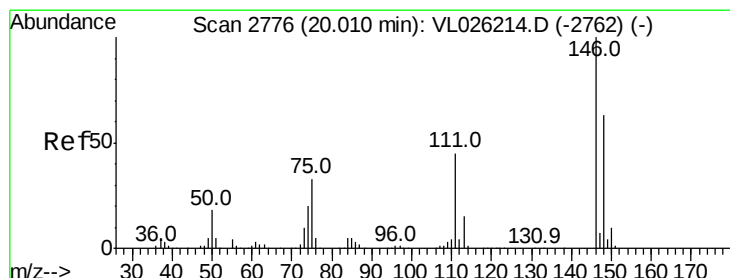
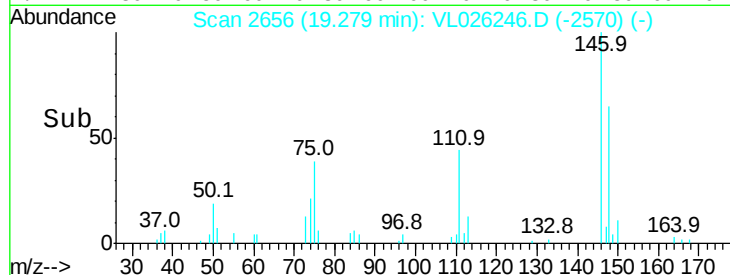
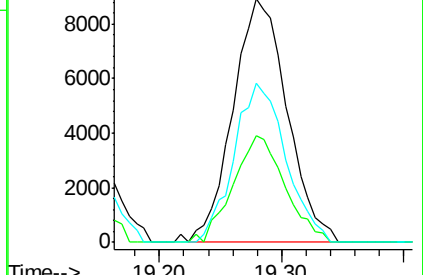
148 62.6 31.9 95.9



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: 0.07 ppbv

RT: 20.03 min Scan# 2779

Delta R.T. 0.02 min

Lab File: VL026246.D

Acq: 21 Oct 2015 20:26

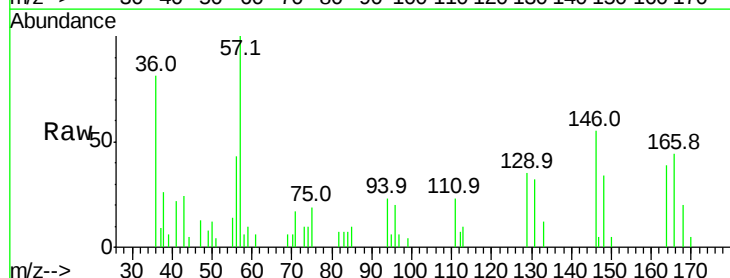
Tgt Ion:146 Resp: 11328

Ion Ratio Lower Upper

146 100

111 46.6 22.6 67.7

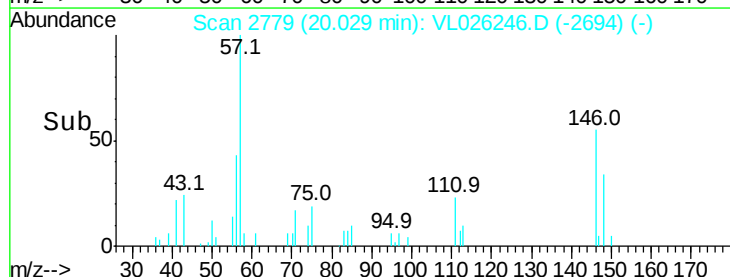
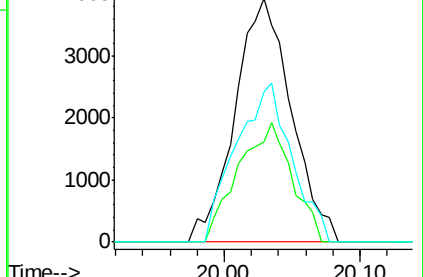
148 64.5 31.6 95.0

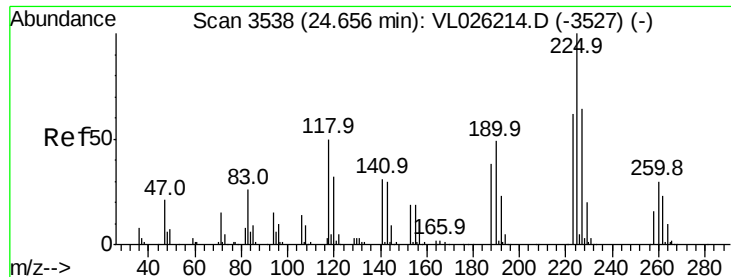


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

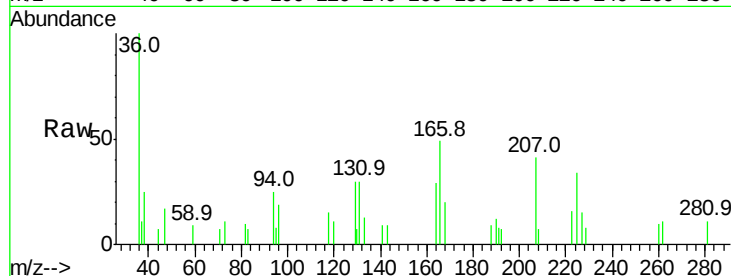




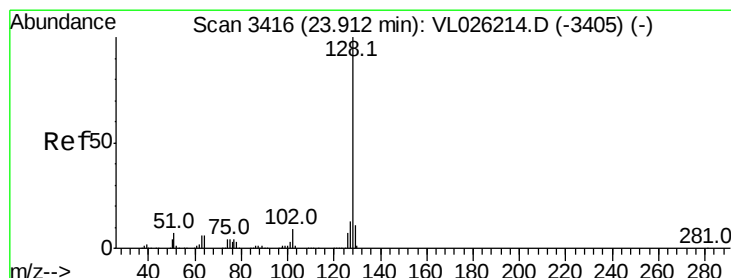
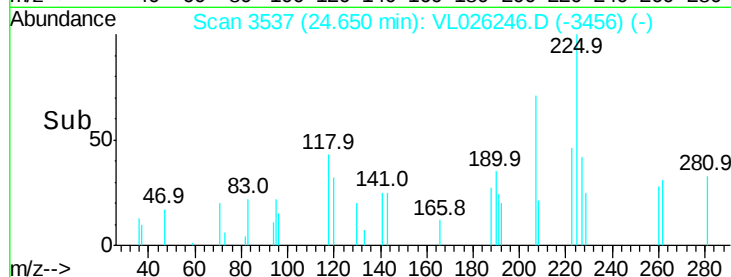
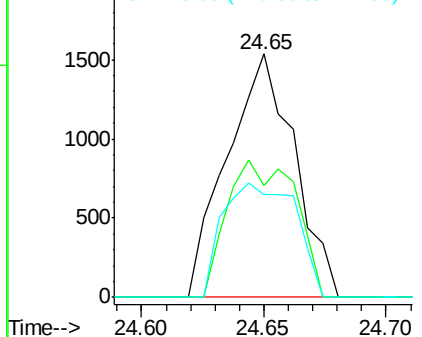
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.04 ppbv
 RT: 24.65 min Scan# 3537
 Delta R.T. -0.01 min
 Lab File: VL026246.D
 Acq: 21 Oct 2015 20:26

Instrument :
 MSVOA_L
 ClientSampleId :
 INF

Tgt Ion:225 Resp: 2948
 Ion Ratio Lower Upper
 225 100
 223 57.2 50.2 75.2
 227 50.9 50.8 76.2

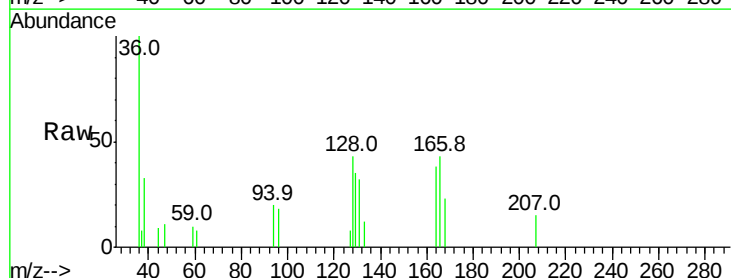


Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V

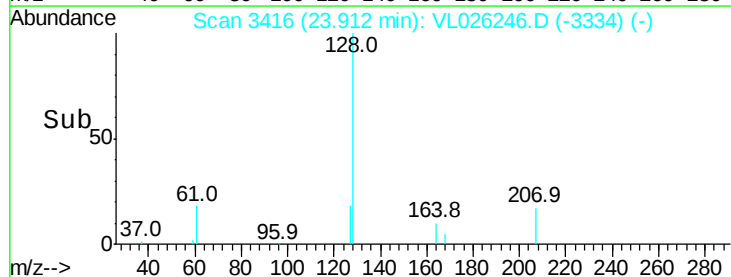
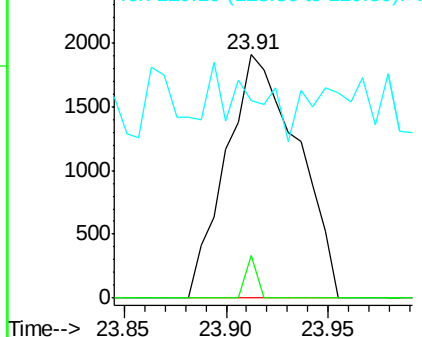


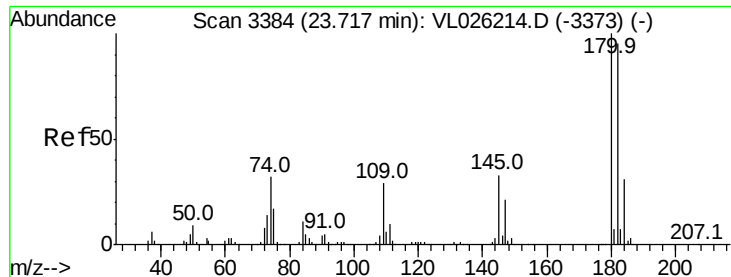
#79
 Naphthalene
 Concen: 0.02 ppbv
 RT: 23.91 min Scan# 3416
 Delta R.T. 0.00 min
 Lab File: VL026246.D
 Acq: 21 Oct 2015 20:26

Tgt Ion:128 Resp: 4667
 Ion Ratio Lower Upper
 128 100
 127 17.6 10.4 15.6#
 129 6.6 8.8 13.2#



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





#81
 1,2,4-Trichlorobenzene
 Concen: 0.06 ppbv
 RT: 23.71 min Scan# 3383
 Delta R.T. -0.01 min
 Lab File: VL026246.D
 Acq: 21 Oct 2015 20:26

Instrument :
 MSVOA_L
 ClientSampleId :
 INF

Tgt Ion:180 Resp: 5690
 Ion Ratio Lower Upper
 180 100
 182 89.1 76.7 115.1
 184 28.5 24.2 36.2

