

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026218.D
 Acq On : 20 Oct 2015 23:07
 Operator : SY/MD
 Sample : G3973-01DL 60X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Quant Time: Oct 21 15:07:29 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)
1) Bromochloromethane	6.63	49	480272	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	8.31	114	1505955	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.74	117	1813157	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.27	95	1633265	11.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	116.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.63	85	2145	0.02	ppbv	96
3) Chlorodifluoromethane	3.56	51	103268	1.70	ppbv	99
9) Propene	3.59	41	3755	0.13	ppbv	92
10) Heptane	9.36	43	2764086	29.00	ppbv	99
13) Ethanol	4.35	45	1003	0.23	ppbv	72
15) Acetone	4.59	43	266500	3.77	ppbv #	79
16) 1,3-Butadiene	3.93	39	5370	0.17	ppbv #	7
17) tert-Butyl alcohol	5.20	59	2772	0.06	ppbv #	72
19) Isopropyl Alcohol	4.79	45	790	0.03	ppbv #	27
20) Methylene Chloride	5.14	84	5276	0.19	ppbv	92
21) Allyl Chloride	5.16	41	27825	0.60	ppbv #	48
23) Vinyl Acetate	5.94	43	779293	5.98	ppbv #	1
25) Ethyl Acetate	6.65	43	1224523	9.24	ppbv #	77
26) Hexane	6.65	57	1832263	27.66	ppbv #	44
30) Cyclohexane	8.27	84	1760102	26.57	ppbv	97
34) 2-Butanone	6.09	43	27520	0.32	ppbv #	27
36) Benzene	8.00	78	1047588	6.83	ppbv	99
37) 1,2-Dichloroethane	7.35	62	15437	0.20	ppbv #	12
38) Trichloroethene	9.05	130	16235	0.22	ppbv #	77
39) 1,2-Dichloropropane	8.92	63	18056	0.33	ppbv #	1
41) Tetrahydrofuran	7.12	42	56248	1.14	ppbv #	34
42) Bromodichloromethane	9.01	83	550615	4.86	ppbv #	26
43) Methyl Methacrylate	9.21	69	316969	5.68	ppbv #	1
44) 2,2,4-Trimethylpentane	9.10	57	18504465	74.51	ppbv #	58
47) 1,1,2-Trichloroethane	10.97	97	114953	1.70	ppbv #	45
50) 4-Methyl-2-Pentanone	10.09	43	141794	1.23	ppbv	93
51) 2-Hexanone	11.54	43	2704388	25.20	ppbv #	25
53) Toluene	11.25	91	16260001	77.95	ppbv	87
57) Chlorobenzene	13.84	112	551282	3.18	ppbv #	41
58) Ethyl Benzene	14.41	91	5933295	20.19	ppbv	99
59) m/p-Xylene	14.69	91	13569934	58.99	ppbv	98
60) o-Xylene	15.49	91	5237784	21.78	ppbv	100
61) Styrene	15.30	104	54613	0.50	ppbv #	90
62) Isopropylbenzene	16.54	105	436067	1.30	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.47	83	46701	0.29	ppbv #	76
64) n-propylbenzene	17.50	120	165833	1.80	ppbv	94
65) tert-Butylbenzene	18.80	119	73283	0.24	ppbv #	72
66) Benzyl Chloride	19.09	91	3263	0.03	ppbv #	83
67) sec-Butylbenzene	19.39	105	35528	0.08	ppbv	99
69) p-Isopropyltoluene	19.76	119	20794	0.06	ppbv #	66
70) n-Butylbenzene	20.74	91	17351	0.05	ppbv #	72

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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

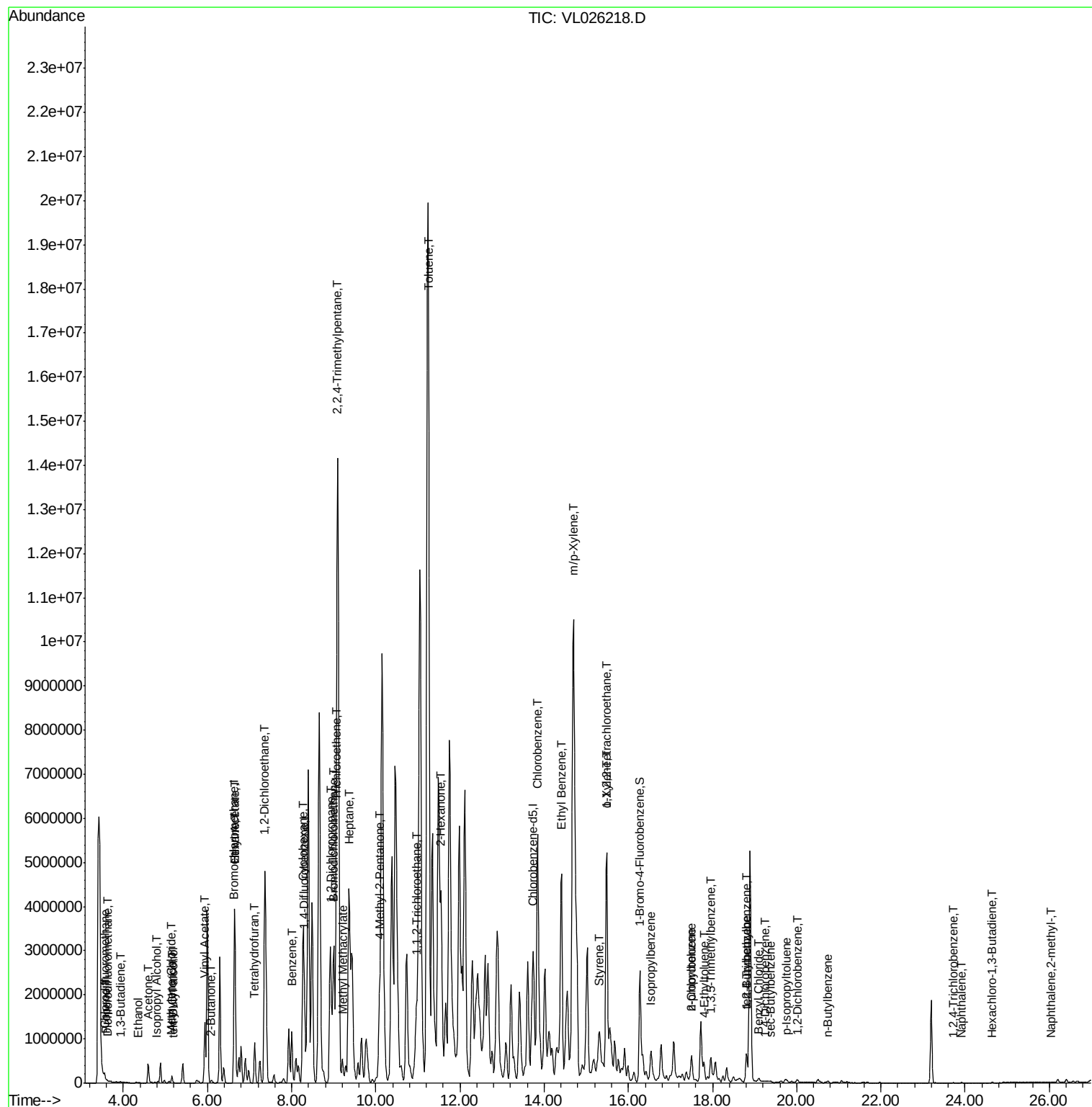
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	17.50	91	695090	2.82	ppbv #	42
72) 4-Ethyltoluene	17.80	105	430197	1.54	ppbv	98
73) 1,3,5-Trimethylbenzene	17.96	105	413985	1.59	ppbv	100
74) 1,2,4-Trimethylbenzene	18.80	105	594499	2.20	ppbv #	73
76) 1,4-Dichlorobenzene	19.25	146	7411	0.04	ppbv #	31
77) 1,2-Dichlorobenzene	20.00	146	7281	0.04	ppbv #	75
78) Hexachloro-1,3-Butadiene	24.64	225	4530	0.05	ppbv	99
79) Naphthalene	23.91	128	12178	0.05	ppbv	97
80) Naphthalene,2-methyl-	26.05	142	1530	0.04	ppbv #	80
81) 1,2,4-Trichlorobenzene	23.71	180	5033	0.04	ppbv #	92

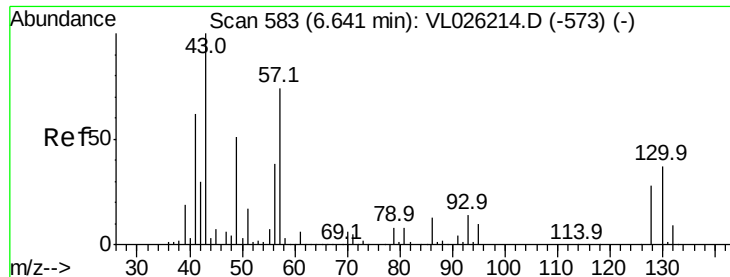
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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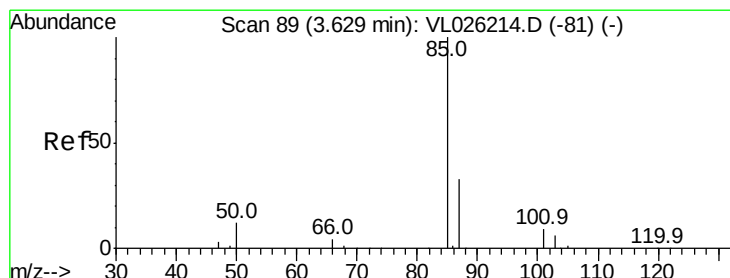
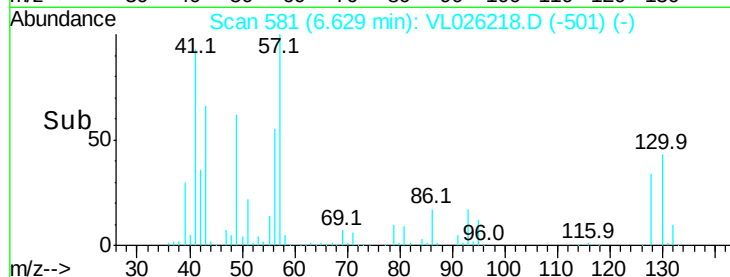
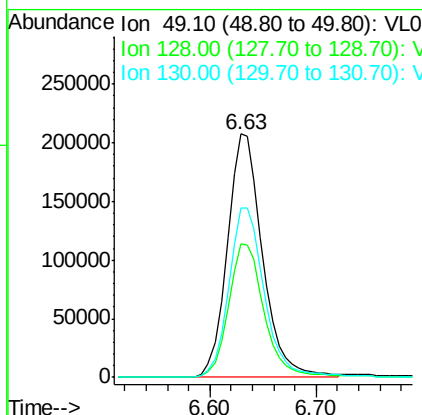
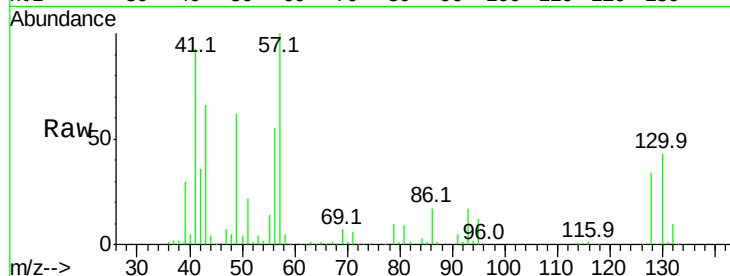




#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 6.63 min Scan# 581
 Delta R.T. -0.01 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

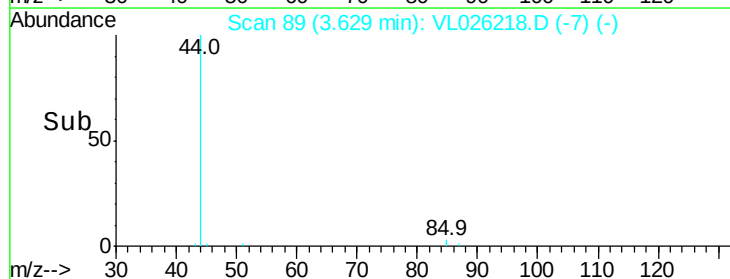
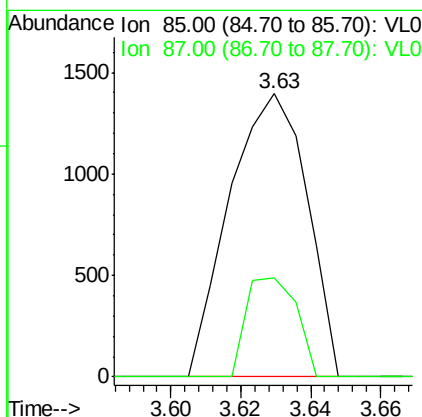
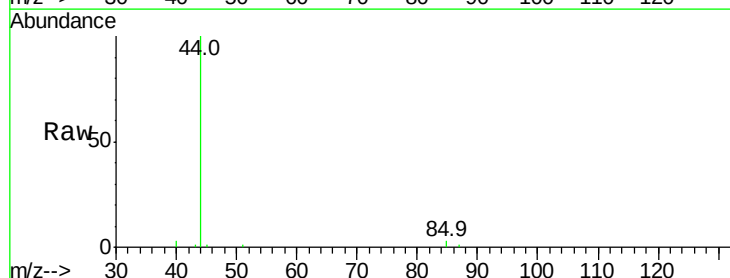
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

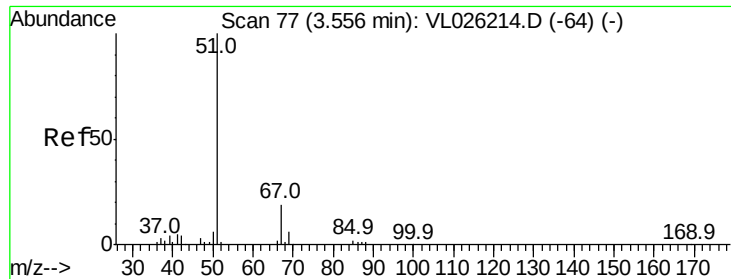
Tot Ion: 49 Resp: 480272
 Ion Ratio Lower Upper
 49 100
 128 56.4 28.2 84.7
 130 72.1 36.0 108.1



#2
 Dichlorodifluoromethane
 Concen: 0.02 ppbv
 RT: 3.63 min Scan# 89
 Delta R.T. 0.00 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Tgt Ion: 85 Resp: 2145
 Ion Ratio Lower Upper
 85 100
 87 34.9 26.1 39.1

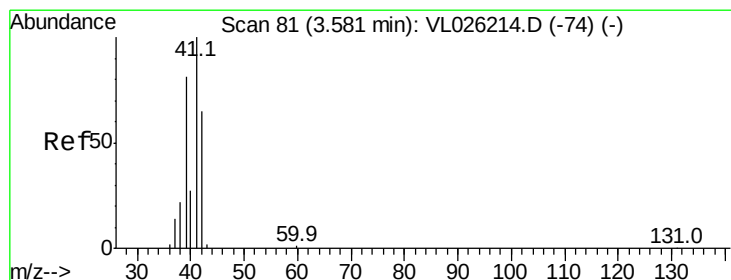
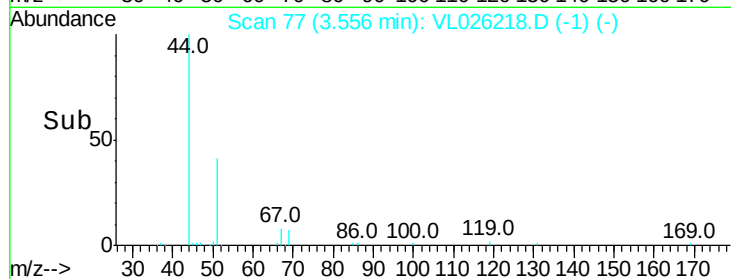
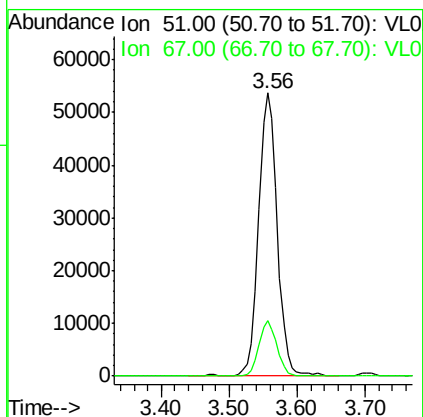
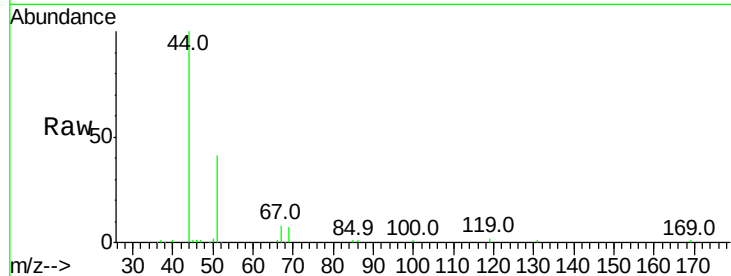




#3
 Chlorodifluoromethane
 Concen: 1.70 ppbv
 RT: 3.56 min Scan# 77
 Delta R.T. 0.00 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

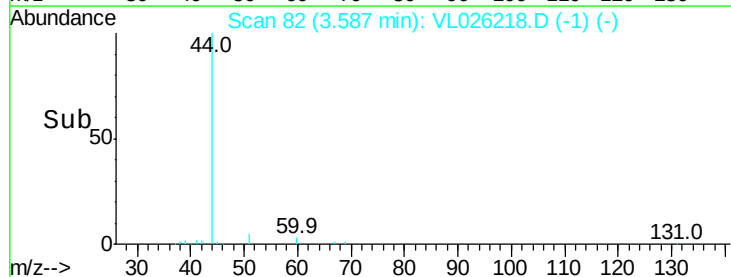
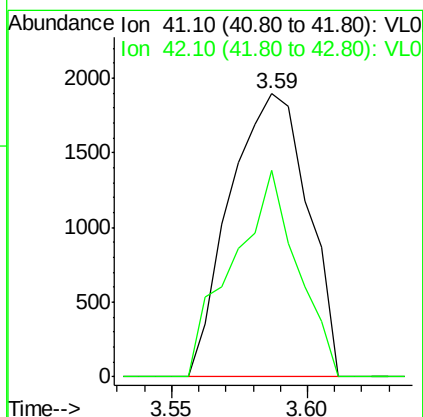
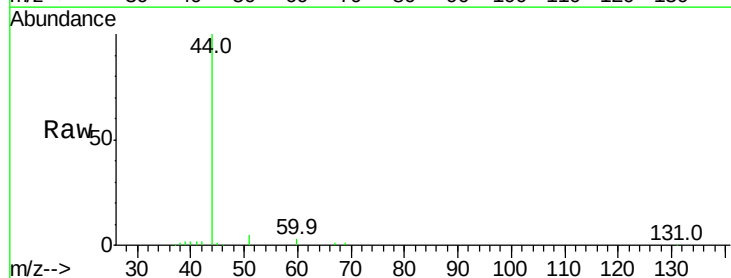
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

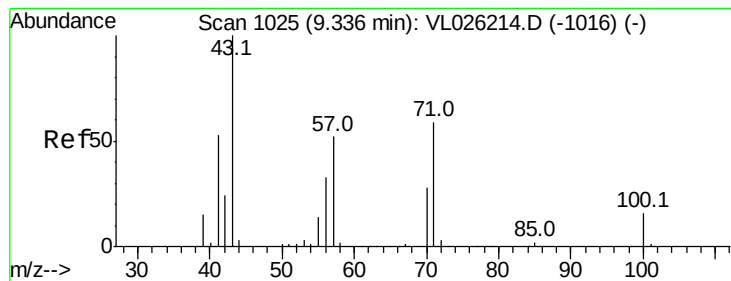
Tot Ion: 51 Resp: 103268
 Ion Ratio Lower Upper
 51 100
 67 18.6 15.3 22.9



#9
 Propene
 Concen: 0.13 ppbv
 RT: 3.59 min Scan# 82
 Delta R.T. 0.01 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Tgt Ion: 41 Resp: 3755
 Ion Ratio Lower Upper
 41 100
 42 60.6 53.8 80.8





#10

Heptane

Concen: 29.00 ppbv

RT: 9.36 min Scan# 1029

Delta R.T. 0.02 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

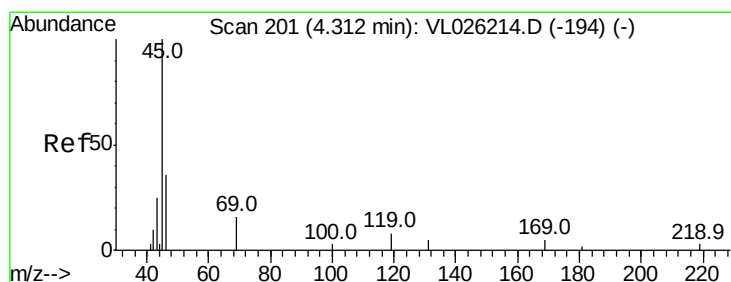
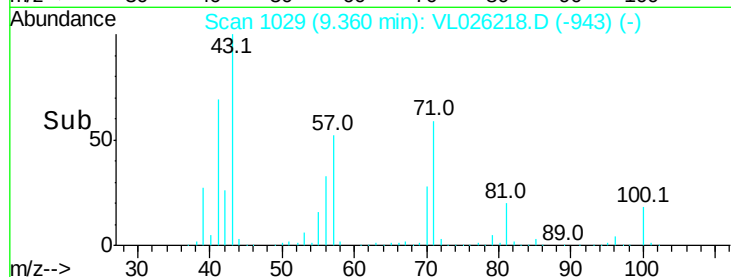
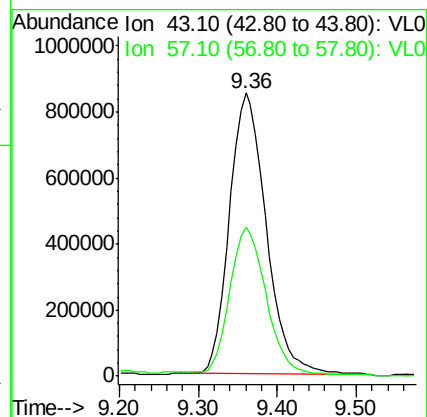
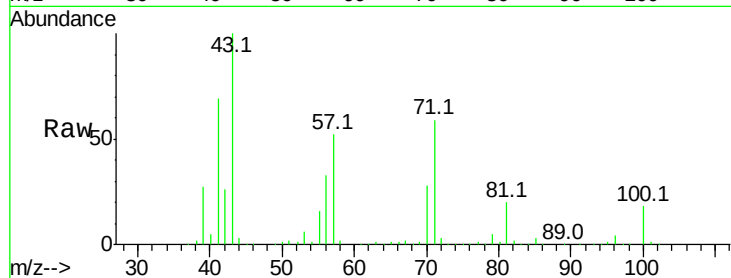
SS-1DL

Tot Ion: 43 Resp: 2764086

Ion Ratio Lower Upper

43 100

57 54.2 43.7 65.5



#13

Ethanol

Concen: 0.23 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.04 min

Lab File: VL026218.D

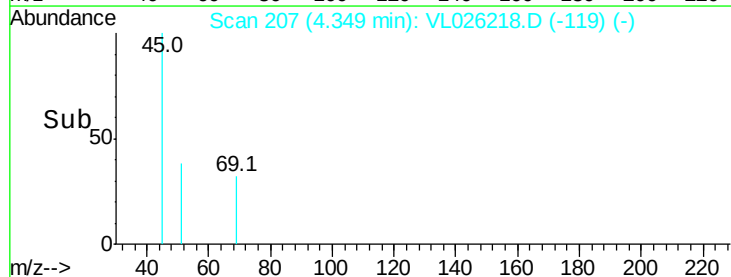
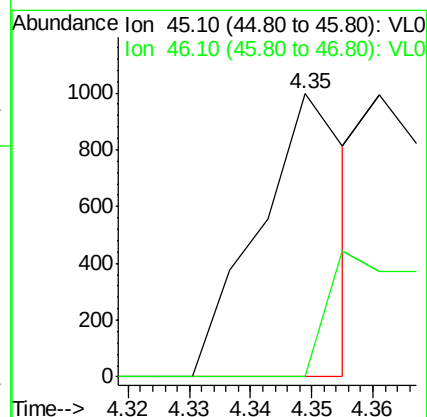
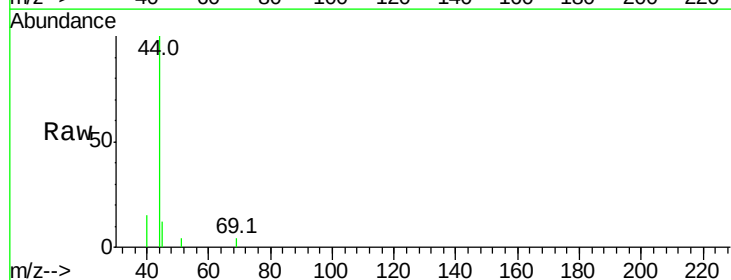
Acq: 20 Oct 2015 23:07

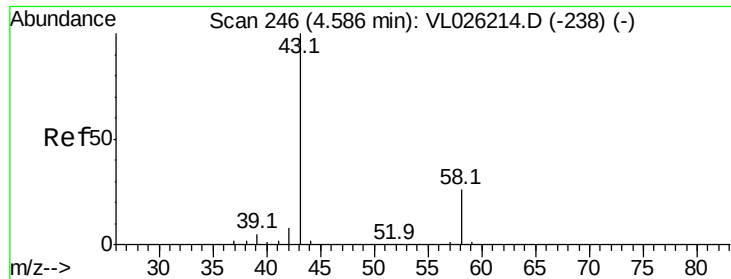
Tgt Ion: 45 Resp: 1003

Ion Ratio Lower Upper

45 100

46 56.3 15.8 63.0





#15

Acetone

Concen: 3.77 ppbv

RT: 4.59 min Scan# 247

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

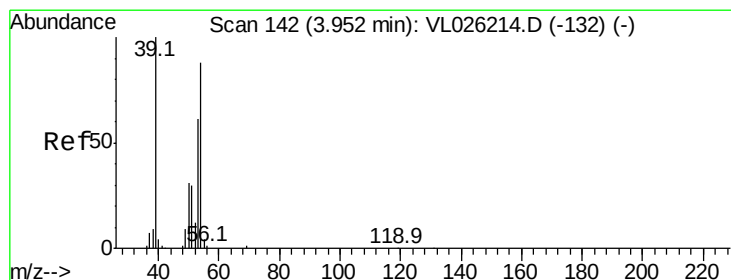
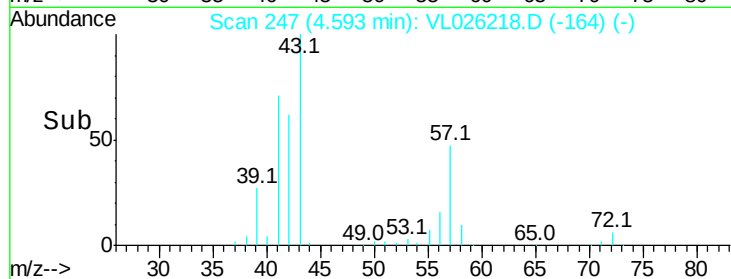
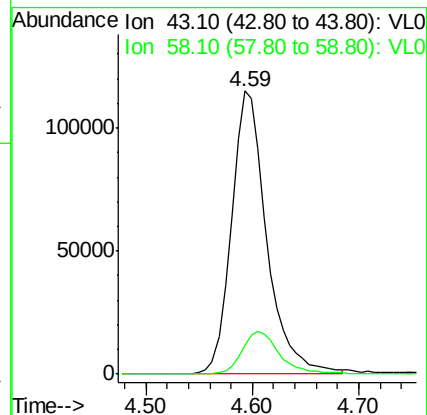
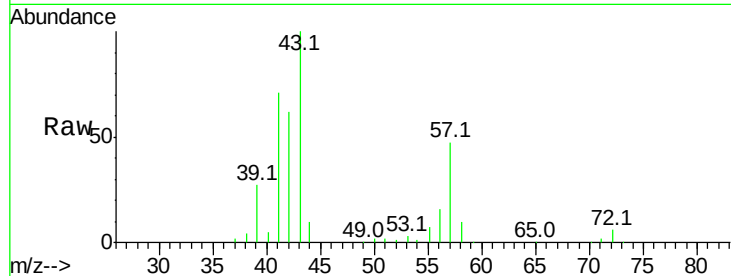
SS-1DL

Tot Ion: 43 Resp: 266500

Ion Ratio Lower Upper

43 100

58 16.1 21.8 32.6#



#16

1,3-Butadiene

Concen: 0.17 ppbv

RT: 3.93 min Scan# 139

Delta R.T. -0.02 min

Lab File: VL026218.D

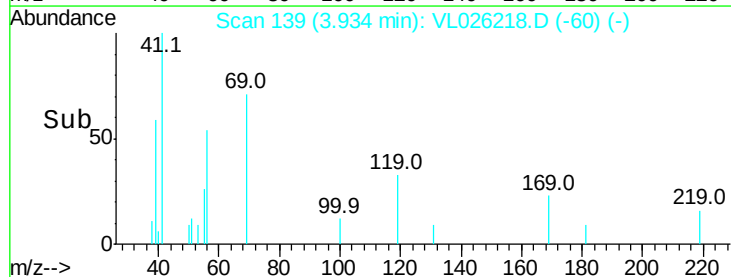
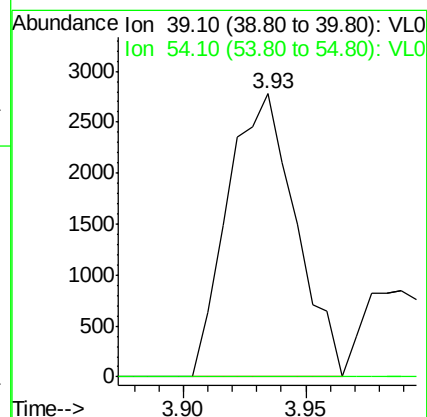
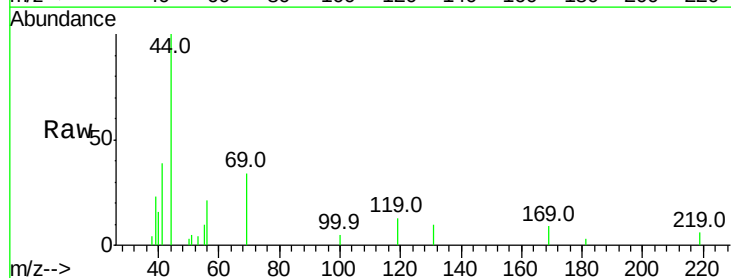
Acq: 20 Oct 2015 23:07

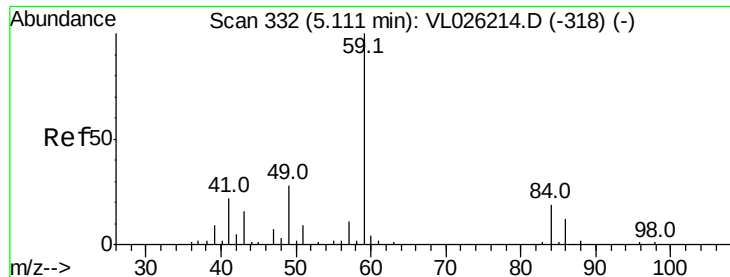
Tgt Ion: 39 Resp: 5370

Ion Ratio Lower Upper

39 100

54 0.0 67.3 100.9#



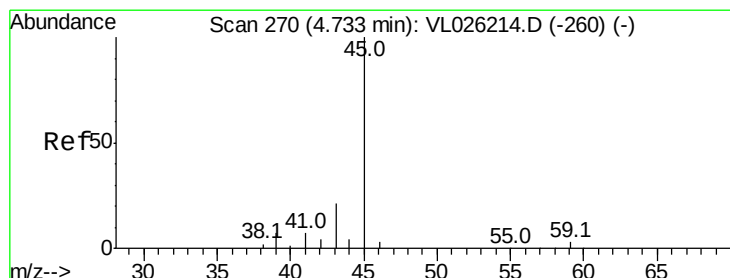
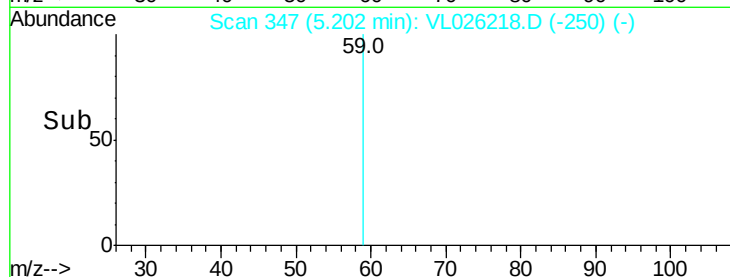
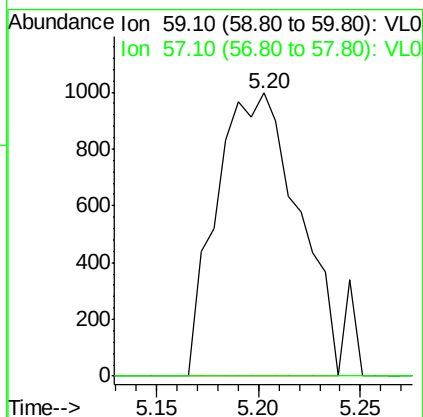
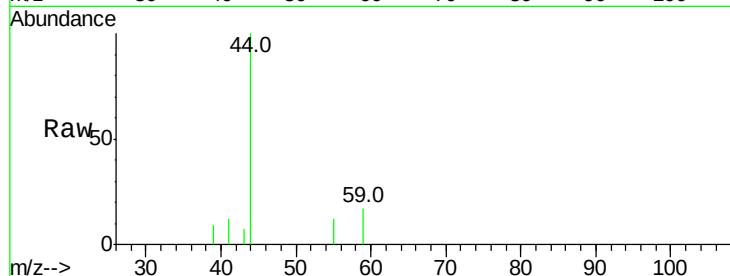


#17

tert-Butyl alcohol
 Concen: 0.06 ppbv
 RT: 5.20 min Scan# 347
 Delta R.T. 0.09 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

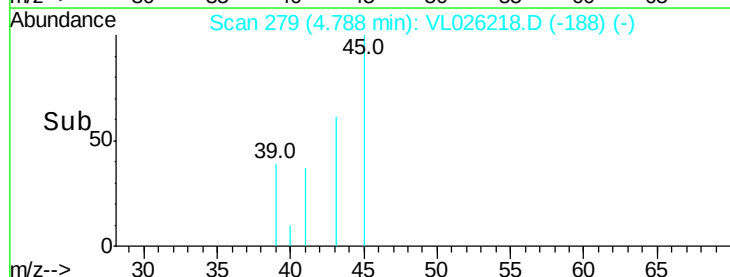
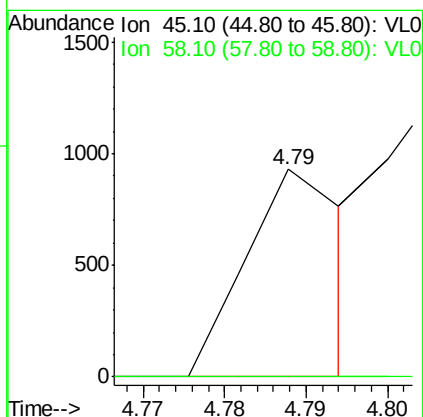
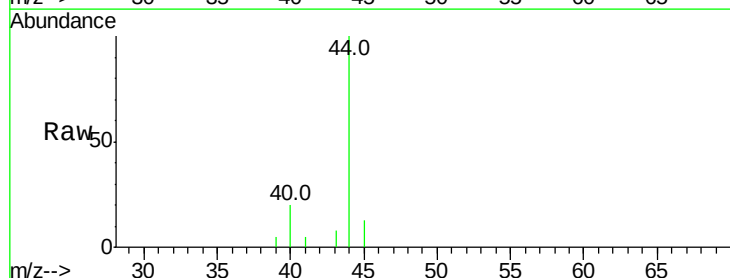
Tot Ion: 59 Resp: 2772
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

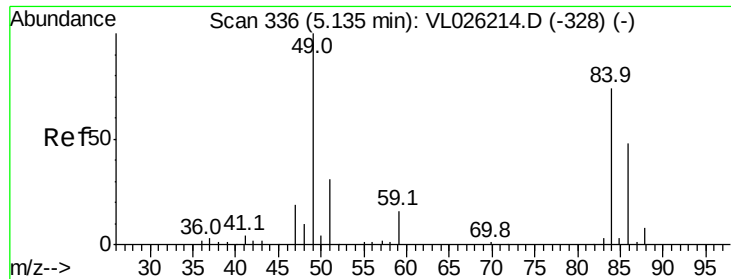


#19

Isopropyl Alcohol
 Concen: 0.03 ppbv
 RT: 4.79 min Scan# 279
 Delta R.T. 0.05 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Tgt Ion: 45 Resp: 790
 Ion Ratio Lower Upper
 45 100
 58 0.0 40.3 60.5#

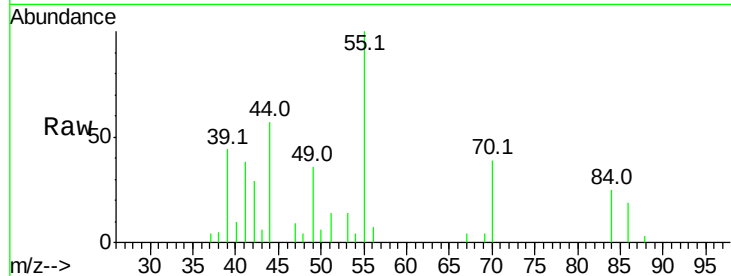




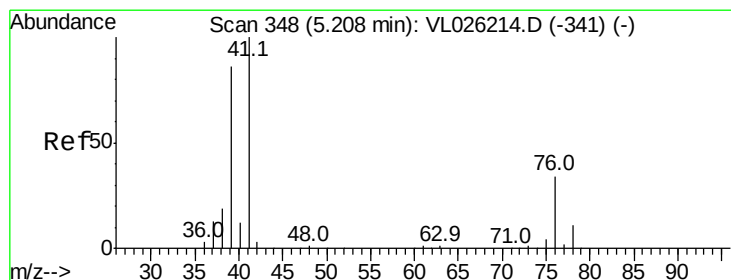
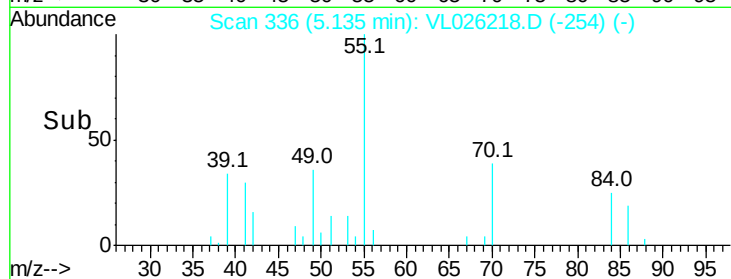
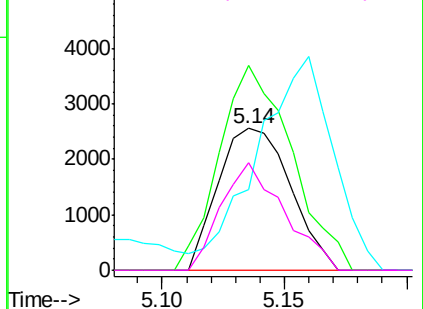
#20
Methylene Chloride
Concen: 0.19 ppbv
RT: 5.14 min Scan# 336
Delta R.T. 0.00 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Instrument :
MSVOA_L
ClientSampled :
SS-1DL

Tot Ion: 84 Resp: 5276
Ion Ratio Lower Upper
84 100
49 127.4 108.7 163.1
51 45.3 33.7 50.5
86 75.4 52.2 78.2

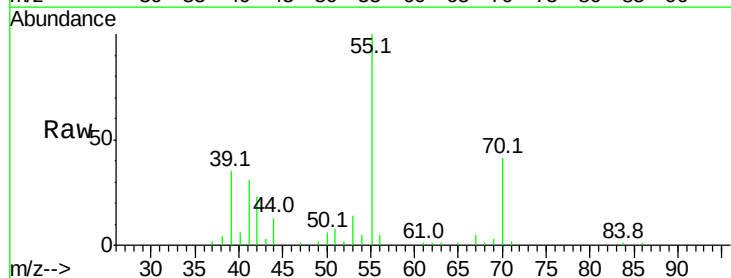


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

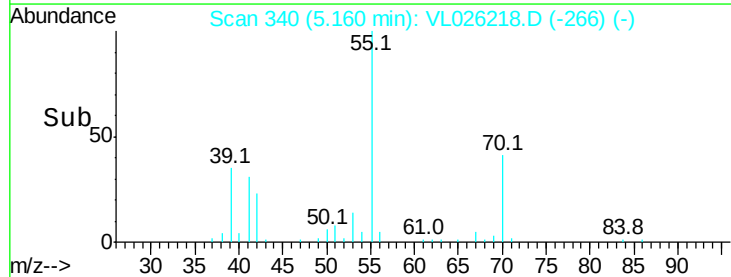
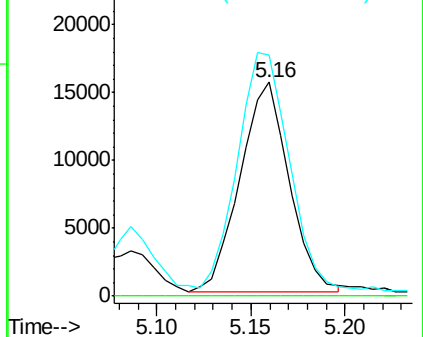


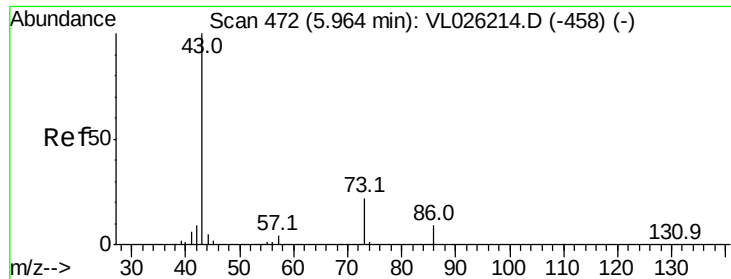
#21
Allyl Chloride
Concen: 0.60 ppbv
RT: 5.16 min Scan# 340
Delta R.T. -0.05 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion: 41 Resp: 27825
Ion Ratio Lower Upper
41 100
76 0.0 26.6 39.8#
39 129.4 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





#23

Vinyl Acetate

Concen: 5.98 ppbv

RT: 5.94 min Scan# 468

Delta R.T. -0.02 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

Tot Ion: 43 Resp: 779293

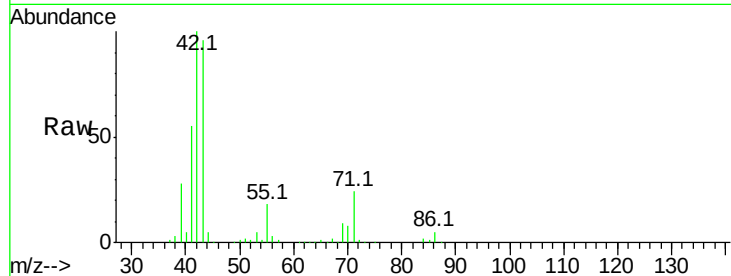
Ion Ratio Lower Upper

43 100

86 4.9 7.0 10.6#

42 104.5 7.5 11.3#

44 3.1 3.6 5.4#

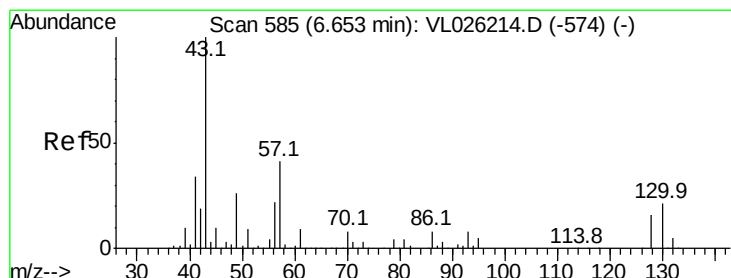
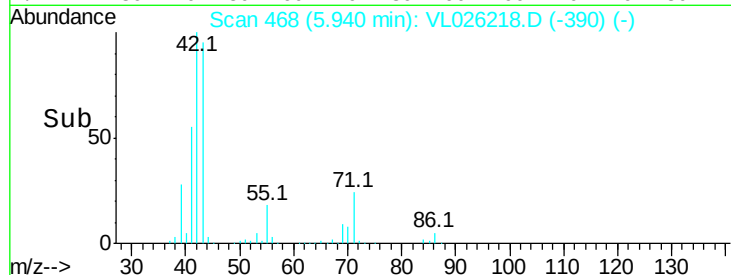
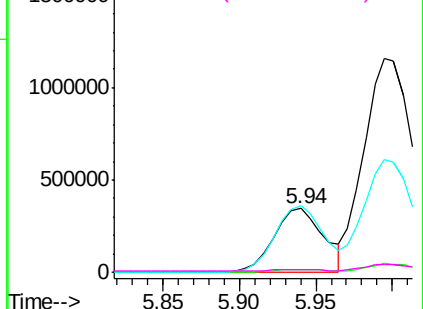


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 9.24 ppbv

RT: 6.65 min Scan# 584

Delta R.T. -0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Tgt Ion: 43 Resp: 1224523

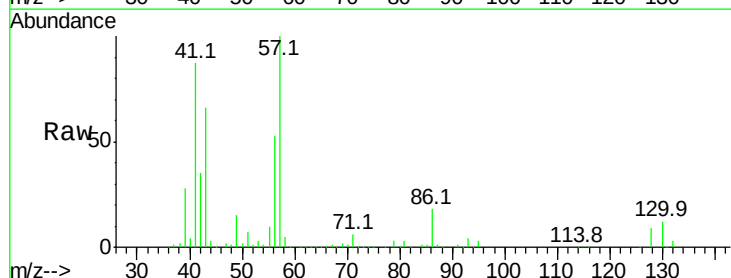
Ion Ratio Lower Upper

43 100

45 0.6 7.7 11.5#

61 0.2 7.5 11.3#

70 1.8 6.9 10.3#

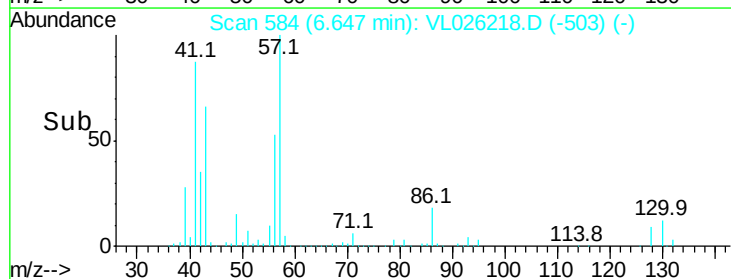
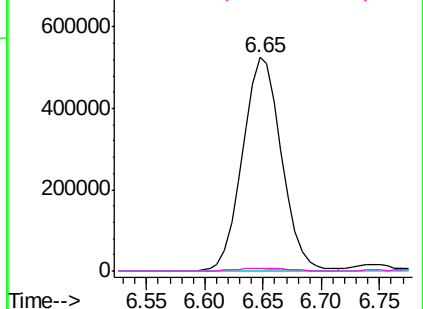


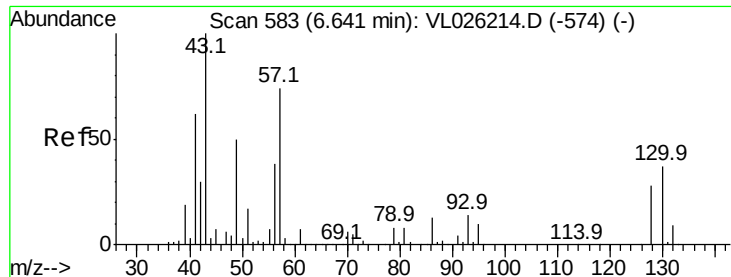
Abundance Ion 43.10 (42.80 to 43.80): VL0

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



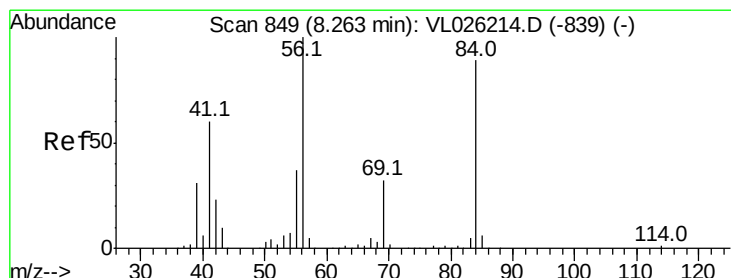
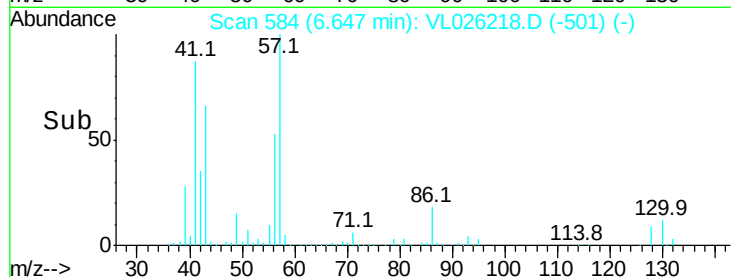
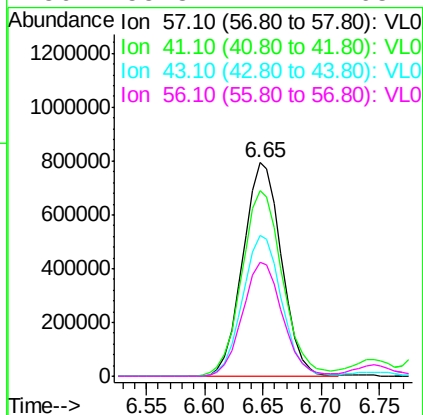
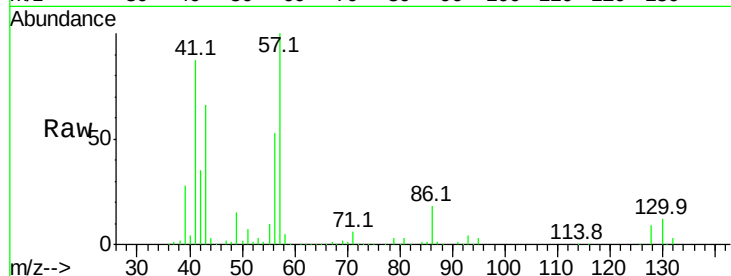


#26
Hexane
Concen: 27.66 ppbv
RT: 6.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

Tot Ion: 57 Resp: 1832263

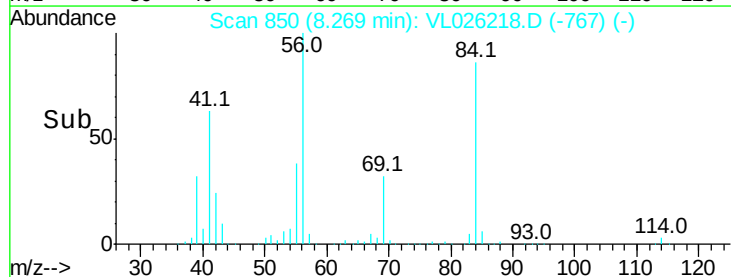
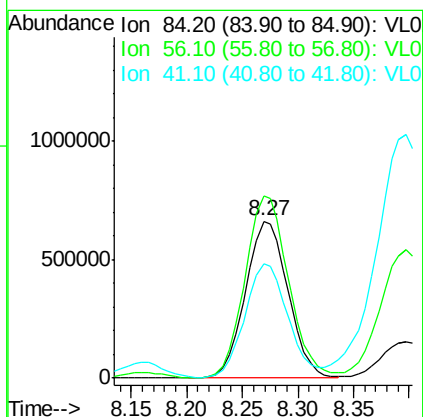
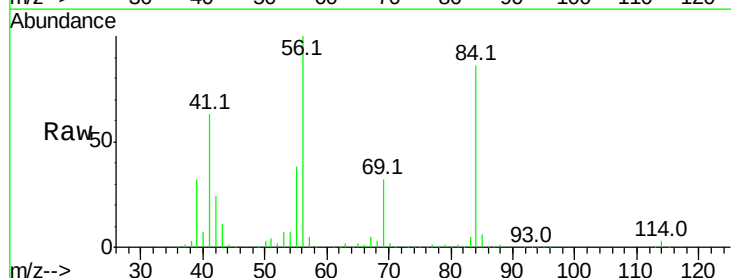
Ion	Ratio	Lower	Upper
57	100		
41	92.6	68.1	102.1
43	67.0	163.4	245.2#
56	55.8	42.2	63.4

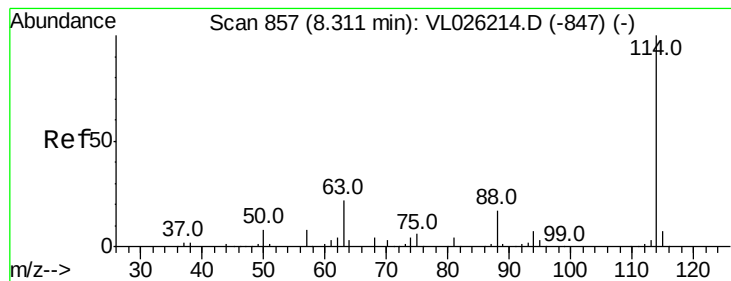


#30
Cyclohexane
Concen: 26.57 ppbv
RT: 8.27 min Scan# 850
Delta R.T. 0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion: 84 Resp: 1760102

Ion	Ratio	Lower	Upper
84	100		
56	118.6	95.9	143.9
41	72.7	54.8	82.2





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.31 min Scan# 856

Delta R.T. -0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

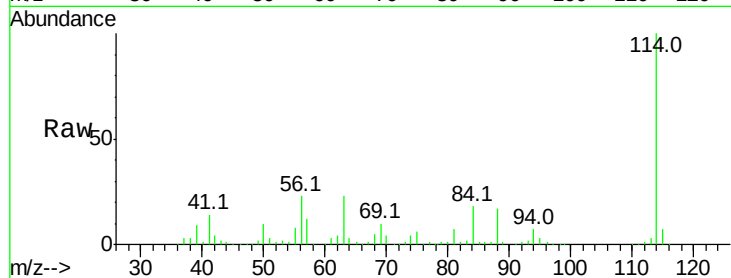
Tot Ion:114 Resp: 1505955

Ion Ratio Lower Upper

114 100

63 25.1 18.2 27.4

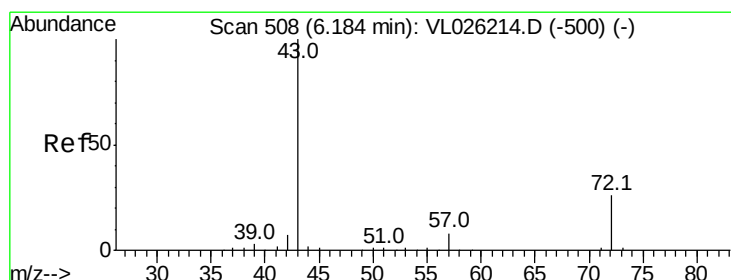
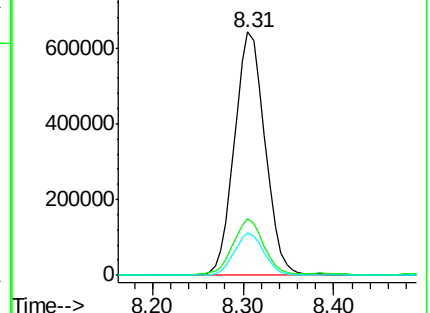
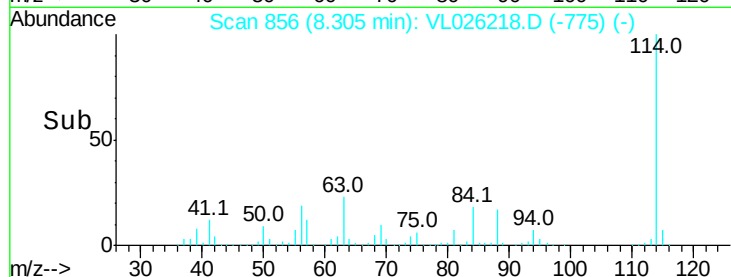
88 16.9 13.5 20.3



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: 0.32 ppbv

RT: 6.09 min Scan# 493

Delta R.T. -0.09 min

Lab File: VL026218.D

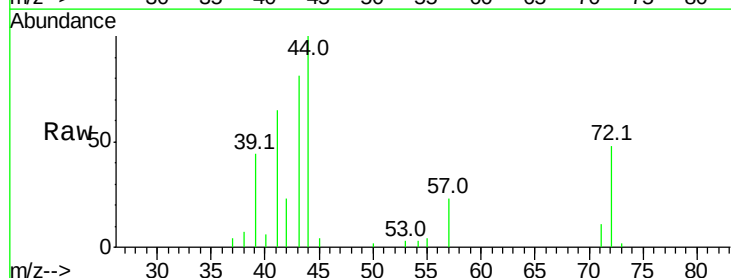
Acq: 20 Oct 2015 23:07

Tgt Ion: 43 Resp: 27520

Ion Ratio Lower Upper

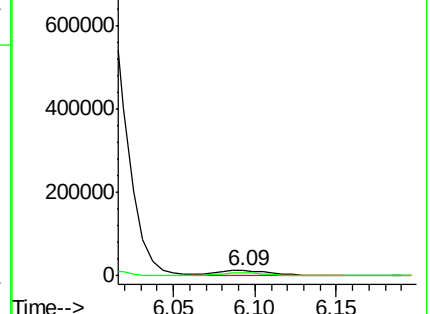
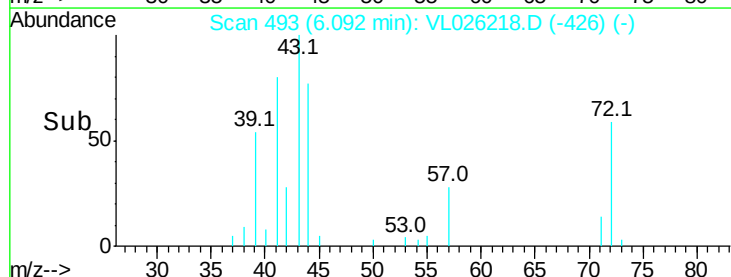
43 100

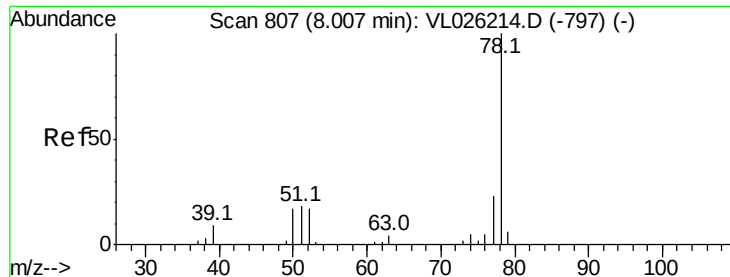
72 62.0 20.1 30.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

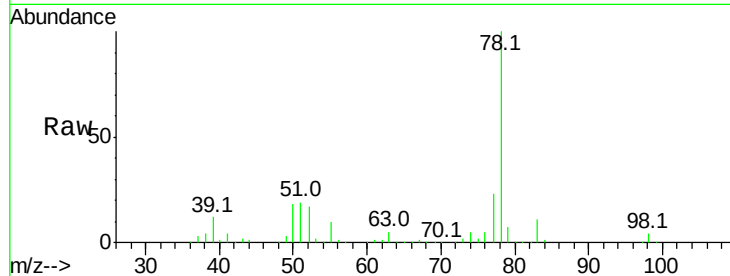




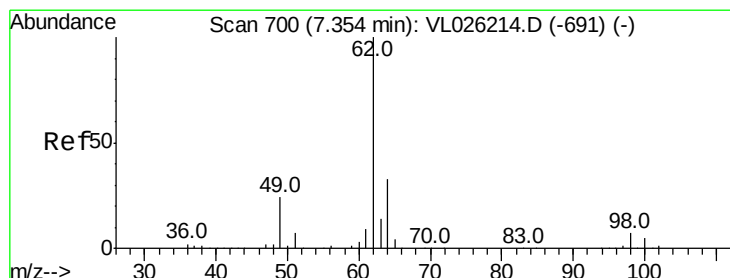
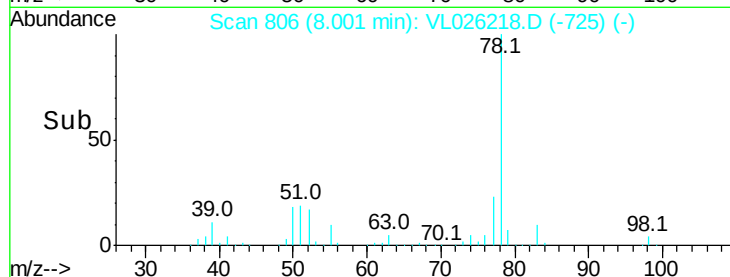
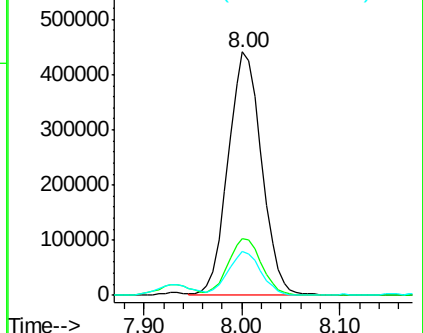
#36
Benzene
Concen: 6.83 ppbv
RT: 8.00 min Scan# 806
Delta R.T. -0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

Tot Ion: 78 Resp: 1047588
Ion Ratio Lower Upper
78 100
77 23.0 18.1 27.1
50 17.6 13.8 20.8

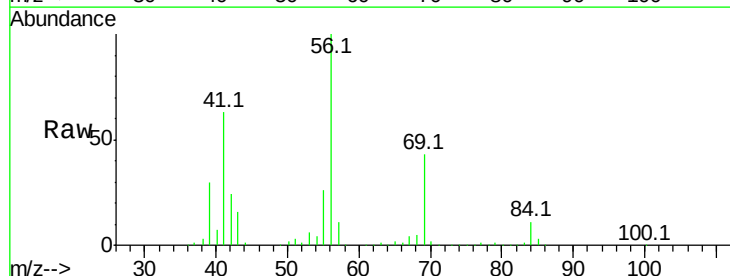


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

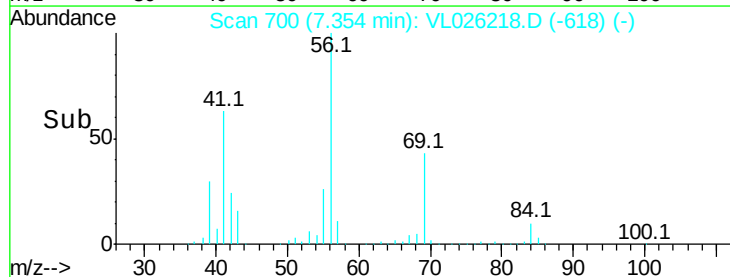
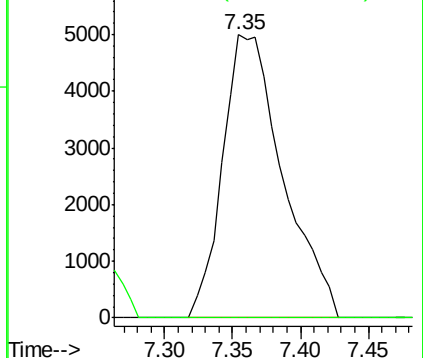


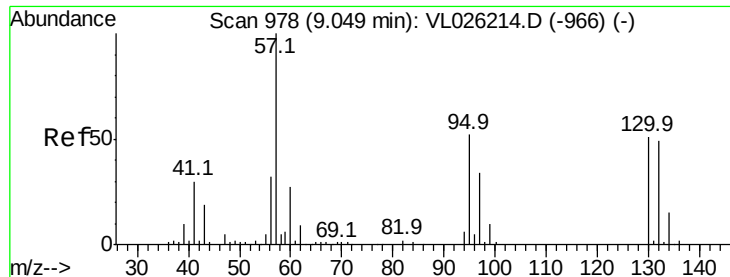
#37
1,2-Dichloroethane
Concen: 0.20 ppbv
RT: 7.35 min Scan# 700
Delta R.T. 0.00 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion: 62 Resp: 15437
Ion Ratio Lower Upper
62 100
98 38.4 6.1 9.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.22 ppbv

RT: 9.05 min Scan# 978

Delta R.T. 0.00 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

Tot Ion:130 Resp: 16235

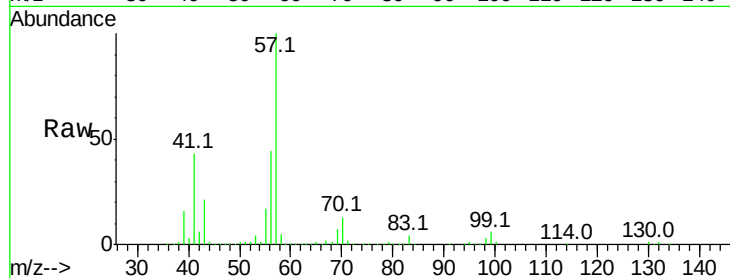
Ion Ratio Lower Upper

130 100

95 93.4 81.0 121.4

132 90.2 76.5 114.7

97 8.4 52.5 78.7#

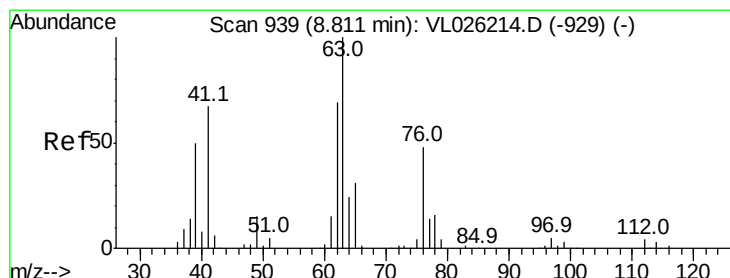
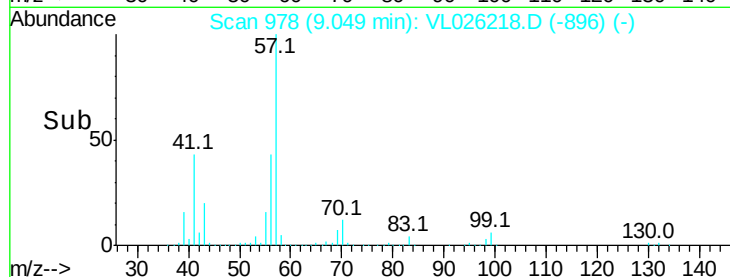
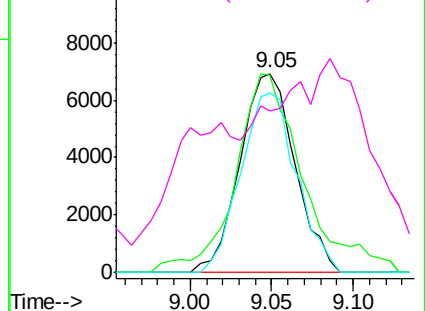


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.33 ppbv

RT: 8.92 min Scan# 957

Delta R.T. 0.11 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

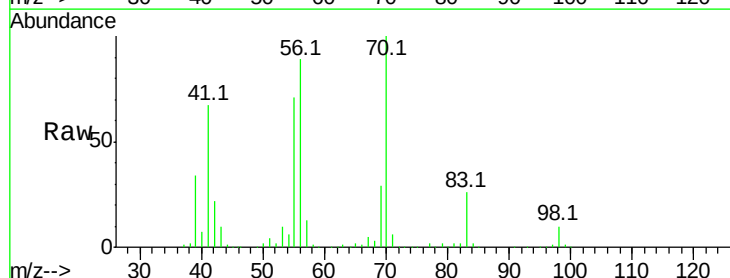
Tgt Ion: 63 Resp: 18056

Ion Ratio Lower Upper

63 100

41 6117.2 53.2 79.8#

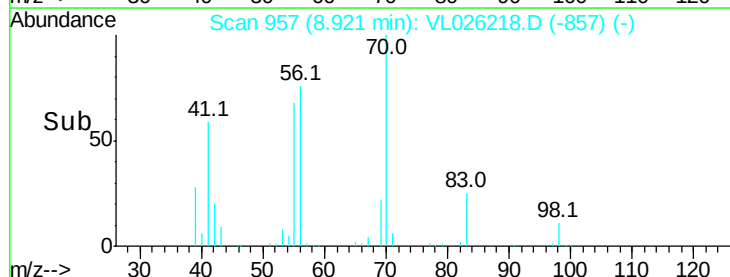
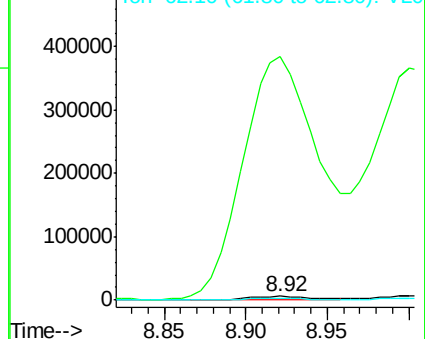
62 44.6 55.4 83.2#

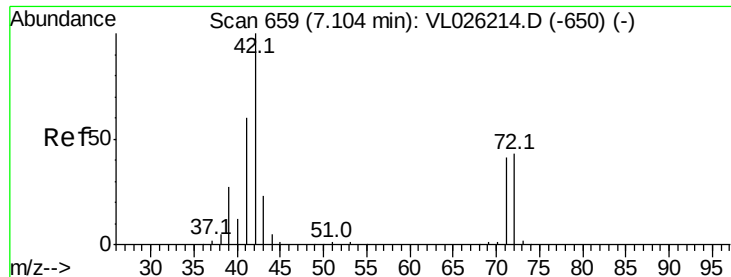


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 1.14 ppbv

RT: 7.12 min Scan# 661

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

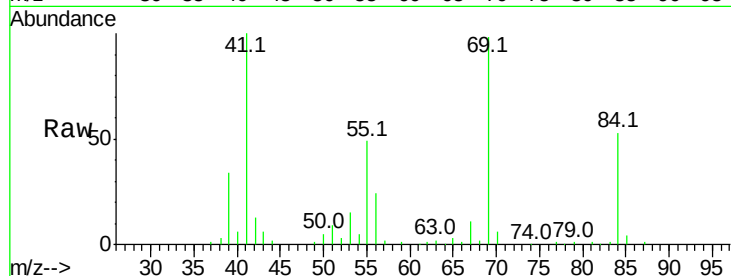
Tot Ion: 42 Resp: 56248

Ion Ratio Lower Upper

42 100

72 0.0 34.3 51.5#

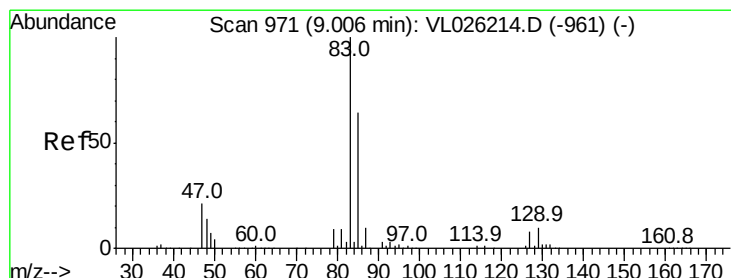
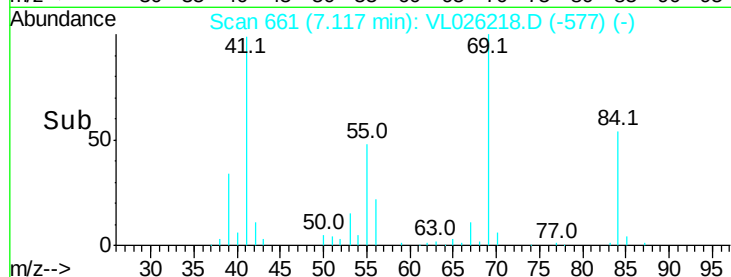
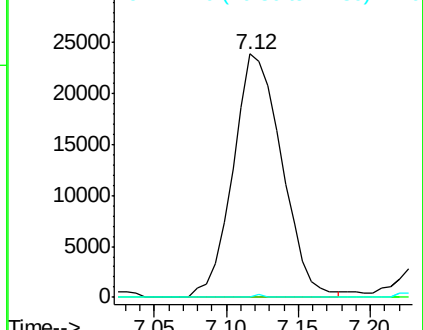
71 0.0 32.1 48.1#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 4.86 ppbv

RT: 9.01 min Scan# 971

Delta R.T. 0.00 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

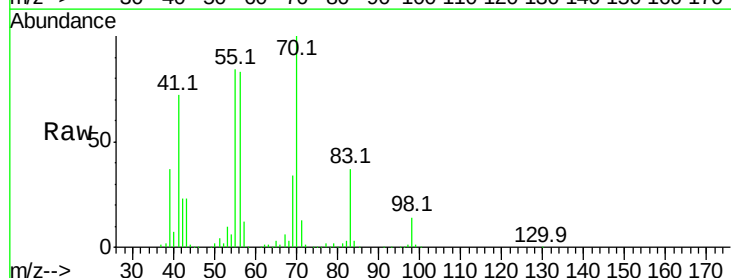
Tgt Ion: 83 Resp: 550615

Ion Ratio Lower Upper

83 100

85 0.8 50.9 76.3#

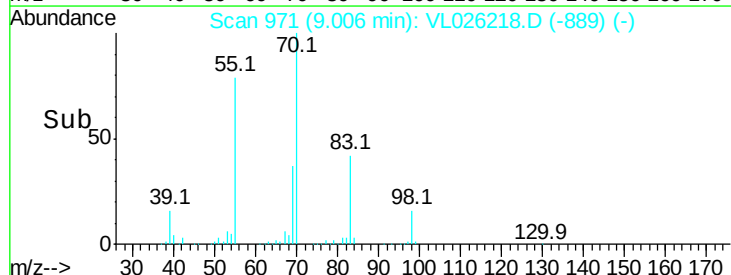
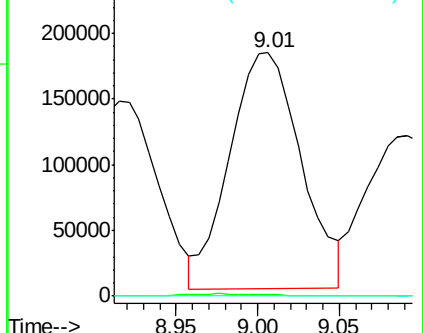
127 0.0 6.2 9.4#

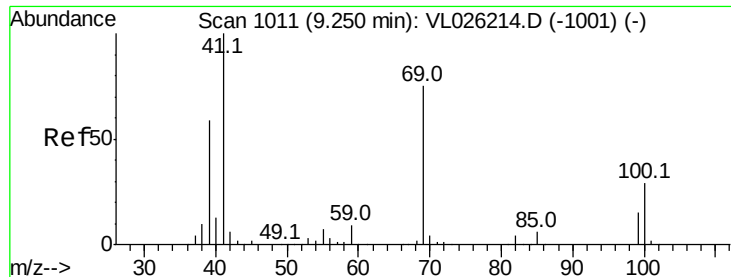


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0





#43

Methyl Methacrylate

Concen: 5.68 ppbv

RT: 9.21 min Scan# 1004

Delta R.T. -0.04 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampled :

SS-1DL

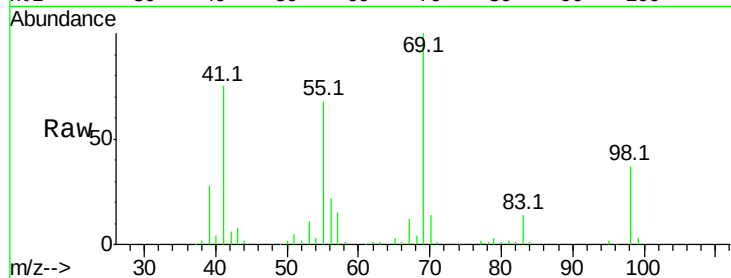
Tot Ion: 69 Resp: 316969

Ion Ratio Lower Upper

69 100

41 0.0 108.4 162.6#

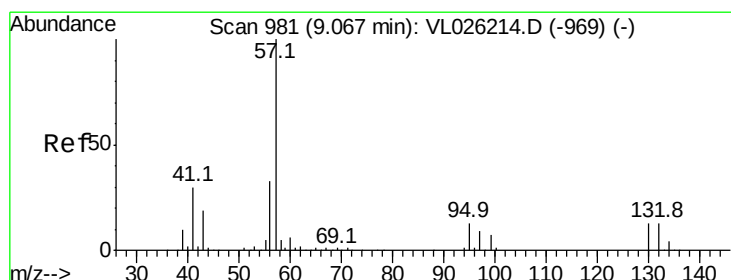
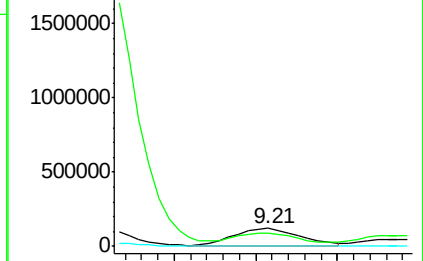
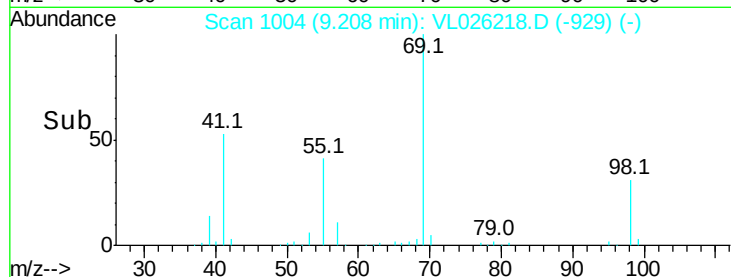
100 0.0 30.6 45.8#



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: 74.51 ppbv

RT: 9.10 min Scan# 986

Delta R.T. 0.03 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

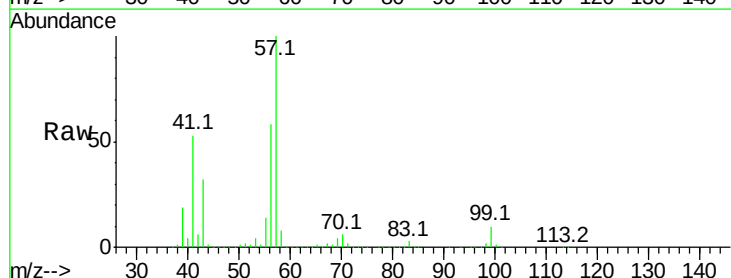
Tgt Ion: 57 Resp:18504465

Ion Ratio Lower Upper

57 100

41 51.8 23.7 35.5#

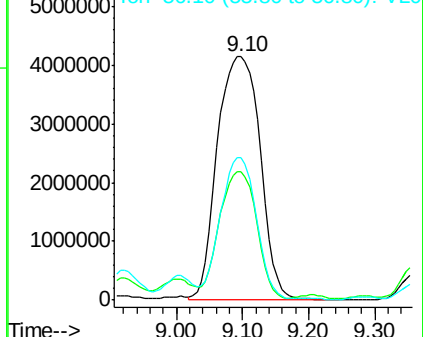
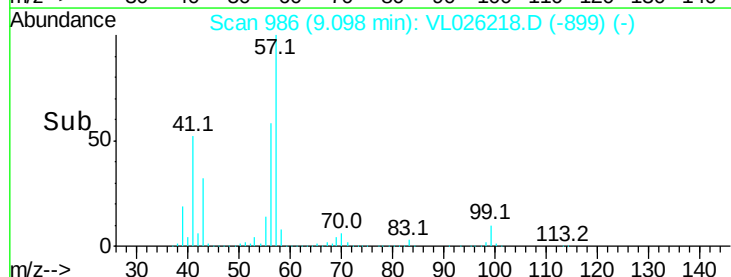
56 56.2 25.9 38.9#

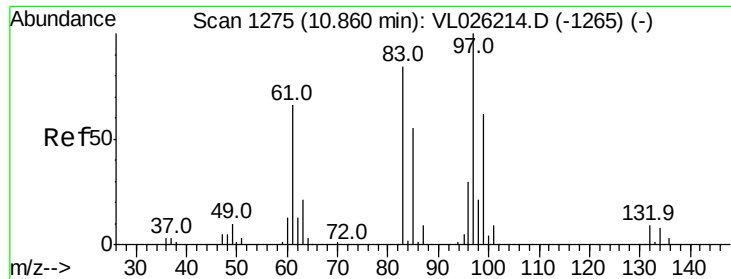


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

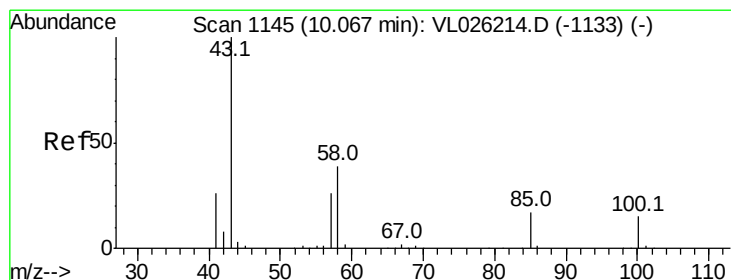
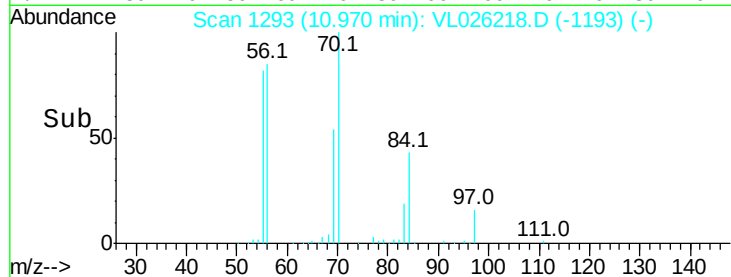
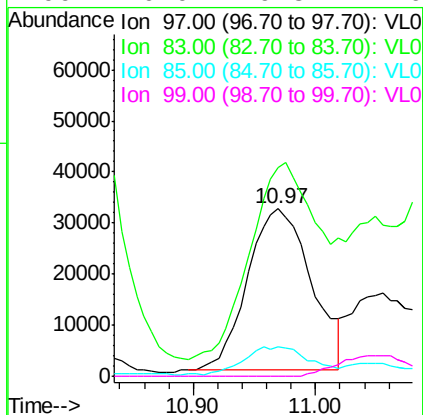
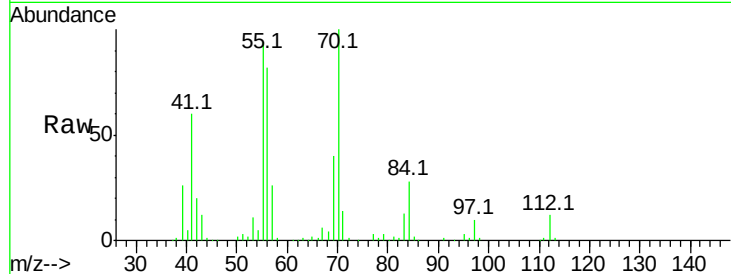




#47
 1,1,2-Trichloroethane
 Concen: 1.70 ppbv
 RT: 10.97 min Scan# 1293
 Delta R.T. 0.11 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

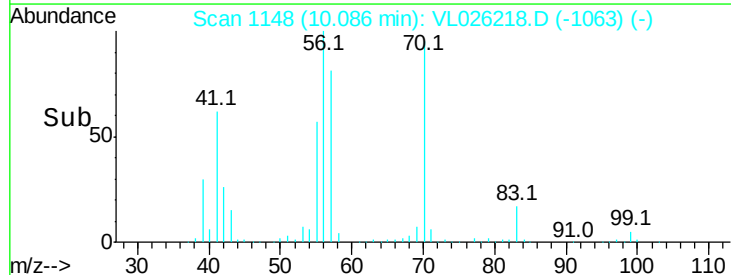
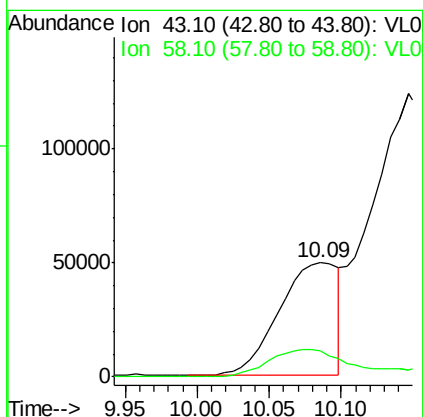
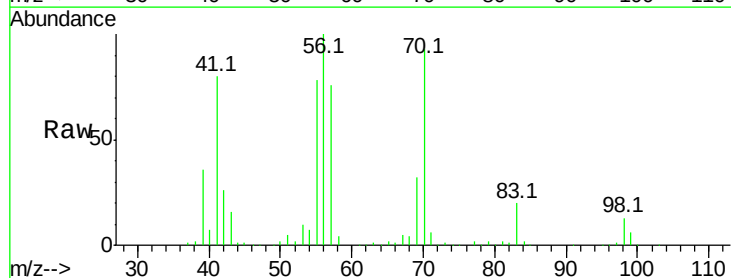
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

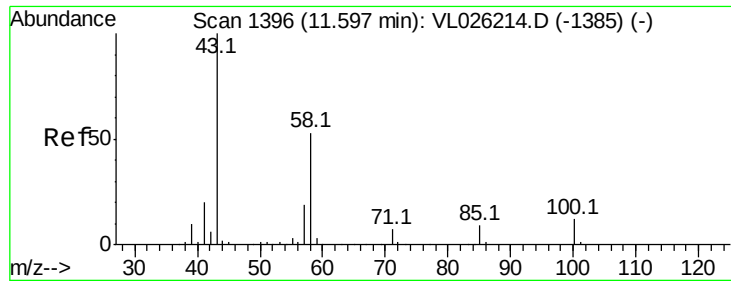
Tot Ion: 97 Resp: 114953
 Ion Ratio Lower Upper
 97 100
 83 118.5 67.4 101.2#
 85 17.1 43.8 65.6#
 99 0.0 49.8 74.6#



#50
 4-Methyl-2-Pentanone
 Concen: 1.23 ppbv
 RT: 10.09 min Scan# 1148
 Delta R.T. 0.02 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Tgt Ion: 43 Resp: 141794
 Ion Ratio Lower Upper
 43 100
 58 34.7 31.1 46.7

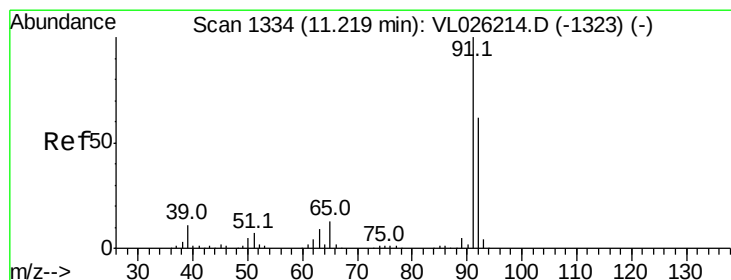
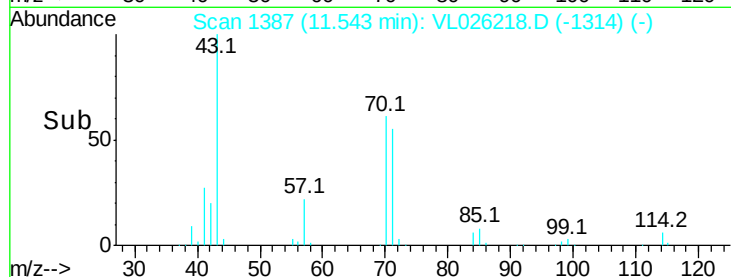
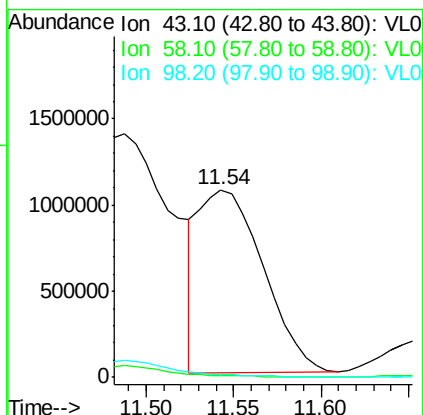
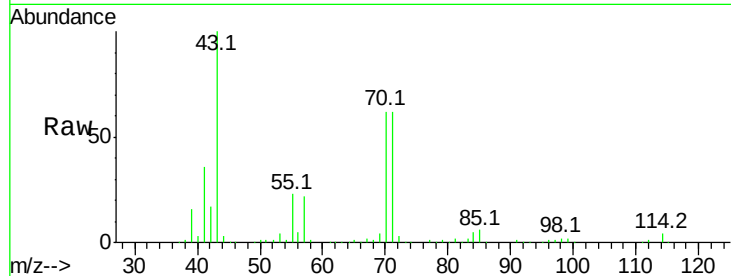




#51
2-Hexanone
Concen: 25.20 ppbv
RT: 11.54 min Scan# 1387
Delta R.T. -0.05 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

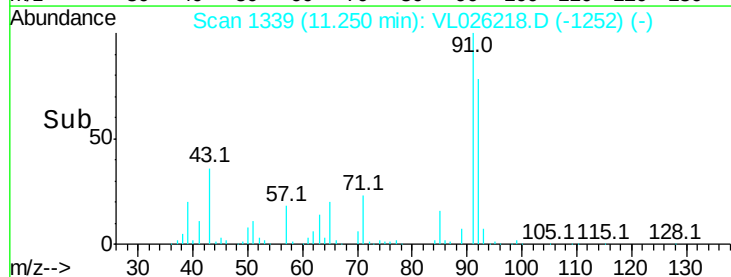
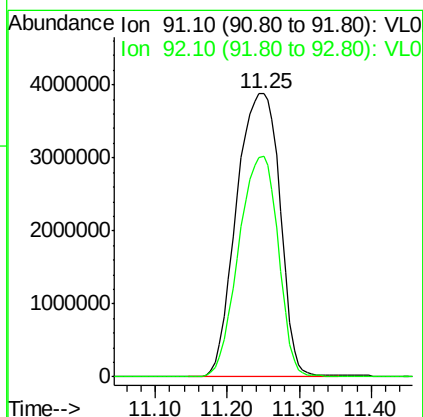
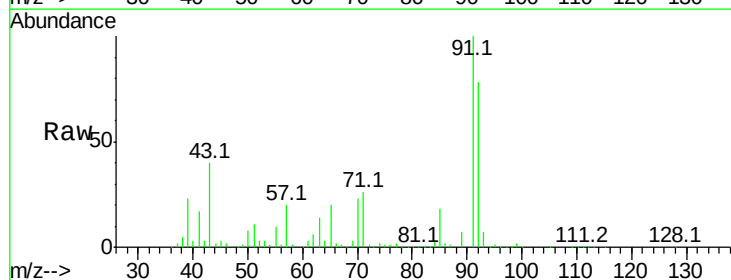
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

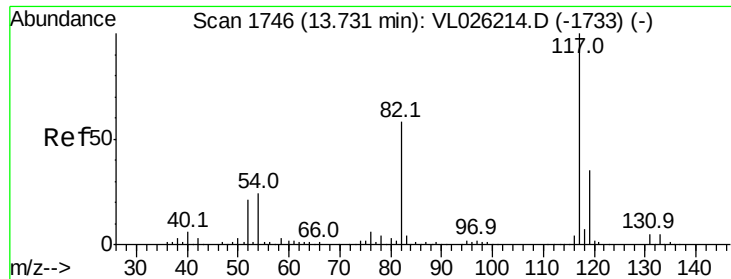
Tot Ion: 43 Resp: 2704388
Ion Ratio Lower Upper
43 100
58 0.0 43.2 64.8#
98 0.0 0.0 0.0



#53
Toluene
Concen: 77.95 ppbv
RT: 11.25 min Scan# 1339
Delta R.T. 0.03 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion: 91 Resp: 16260001
Ion Ratio Lower Upper
91 100
92 71.4 49.2 73.8

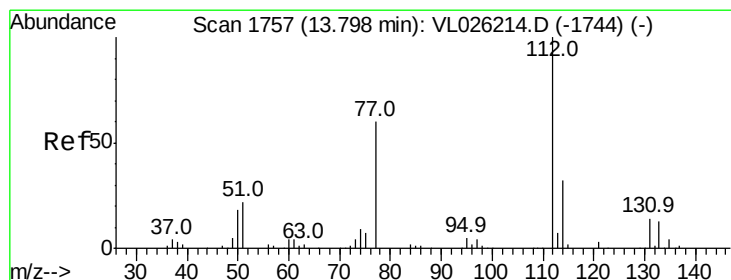
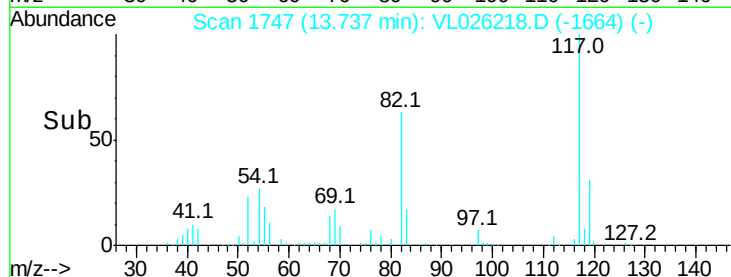
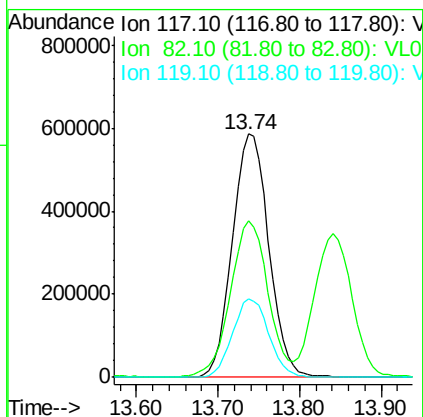
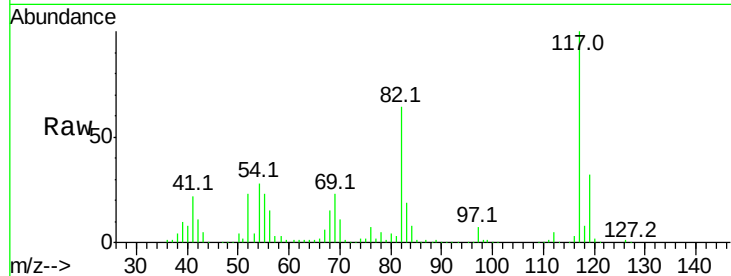




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.74 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

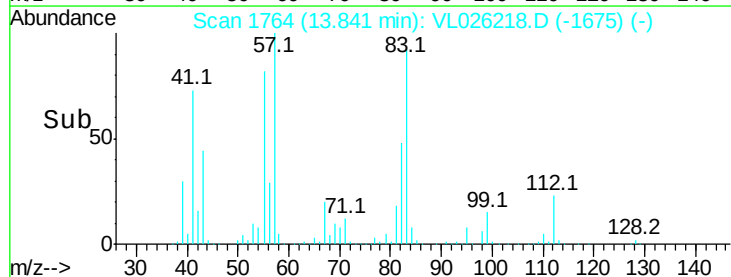
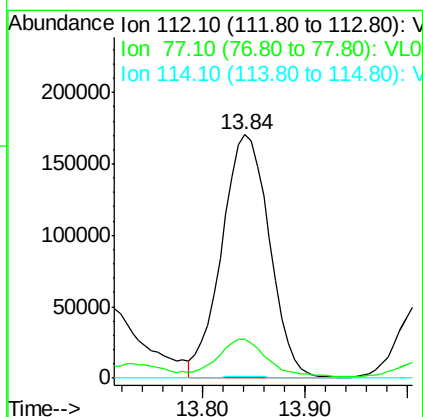
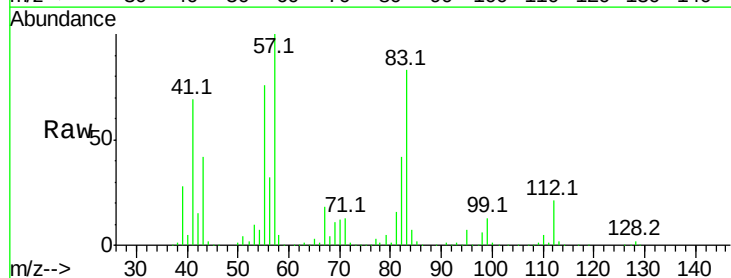
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

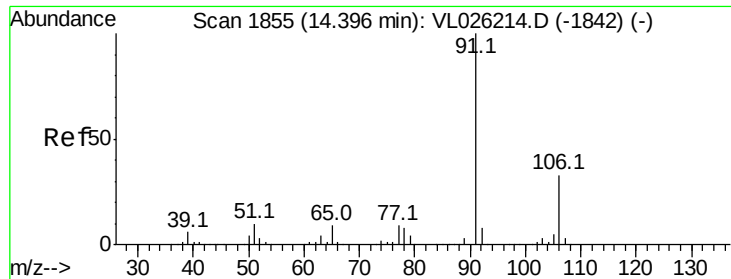
Tot Ion:117 Resp: 1813157
Ion Ratio Lower Upper
117 100
82 65.3 45.8 68.8
119 32.4 45.0 67.4#



#57
Chlorobenzene
Concen: 3.18 ppbv
RT: 13.84 min Scan# 1764
Delta R.T. 0.04 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion:112 Resp: 551282
Ion Ratio Lower Upper
112 100
77 14.9 48.4 72.6#
114 0.7 29.0 35.4#





#58

Ethyl Benzene

Concen: 20.19 ppbv

RT: 14.41 min Scan# 1857

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleID :

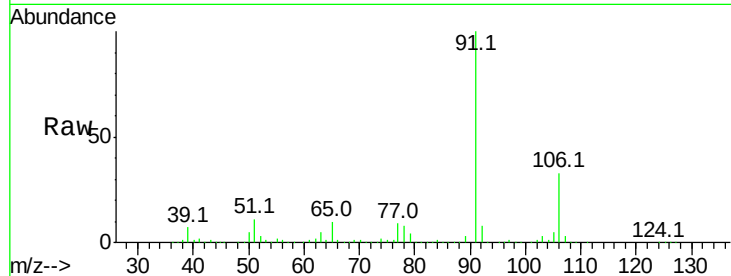
SS-1DL

Tot Ion: 91 Resp: 5933295

Ion Ratio Lower Upper

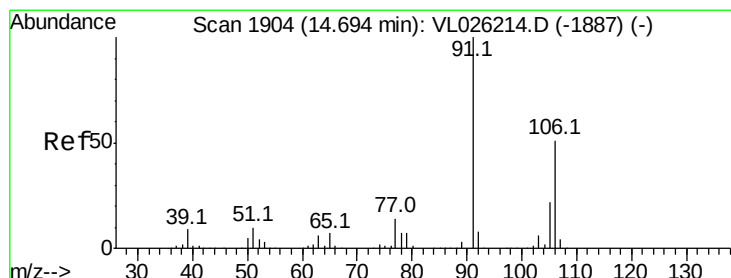
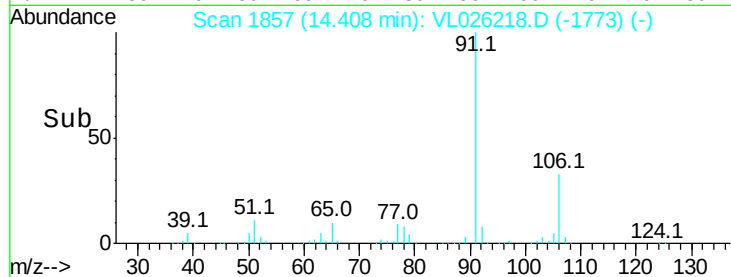
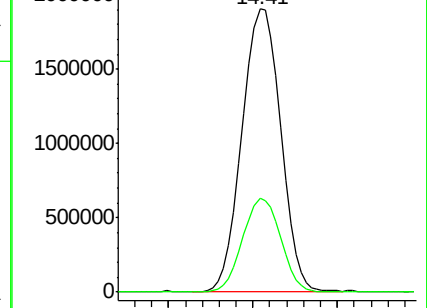
91 100

106 33.1 26.1 39.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 58.99 ppbv

RT: 14.69 min Scan# 1904

Delta R.T. 0.00 min

Lab File: VL026218.D

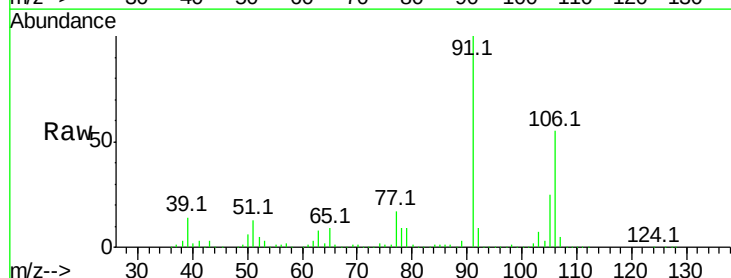
Acq: 20 Oct 2015 23:07

Tgt Ion: 91 Resp: 13569934

Ion Ratio Lower Upper

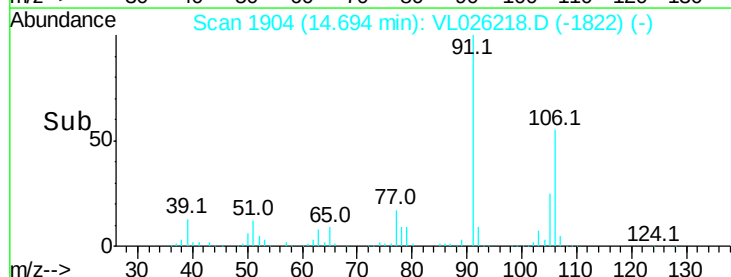
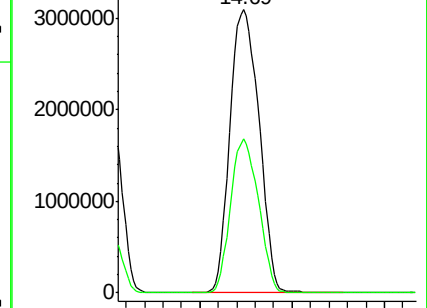
91 100

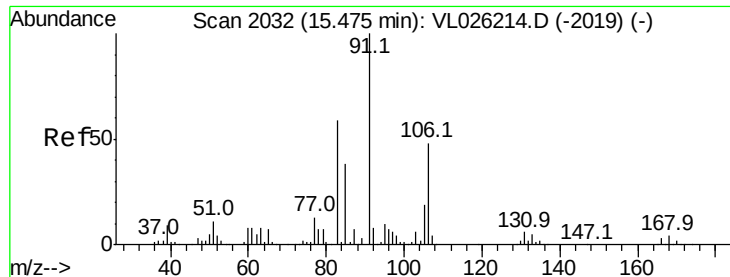
106 52.3 40.6 61.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 21.78 ppbv

RT: 15.49 min Scan# 2034

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

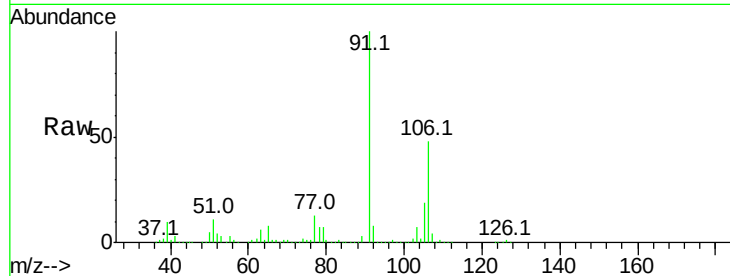
SS-1DL

Tot Ion: 91 Resp: 5237784

Ion Ratio Lower Upper

91 100

106 47.8 23.8 71.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

2000000

1500000

1000000

500000

0

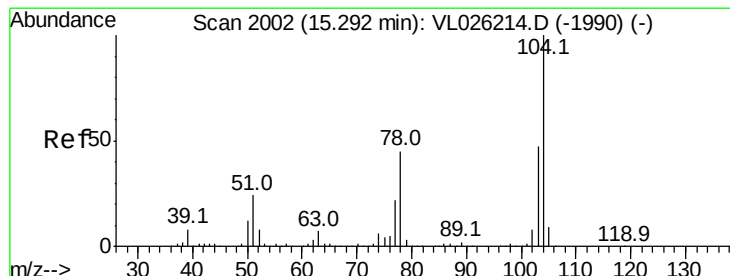
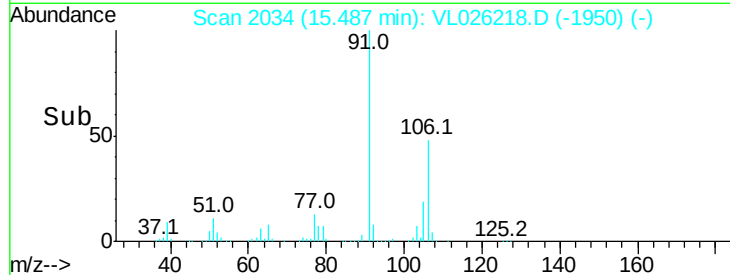
15.49

15.40

15.50

15.60

Time-->



#61

Styrene

Concen: 0.50 ppbv

RT: 15.30 min Scan# 2004

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

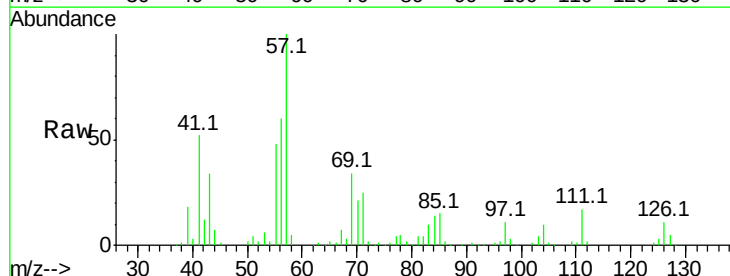
Tgt Ion:104 Resp: 54613

Ion Ratio Lower Upper

104 100

78 56.7 35.3 52.9#

103 46.7 37.0 55.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

25000

20000

15000

10000

5000

0

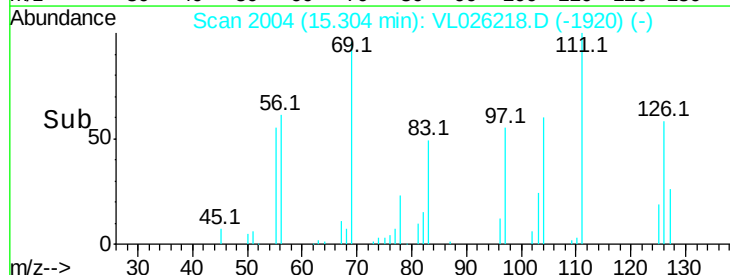
15.30

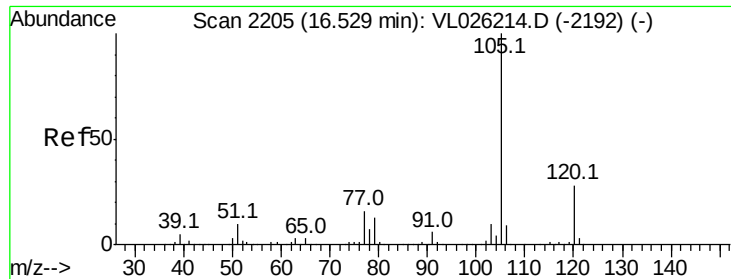
15.20

15.30

15.40

Time-->





#62

Isopropylbenzene

Concen: 1.30 ppbv

RT: 16.54 min Scan# 2206

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

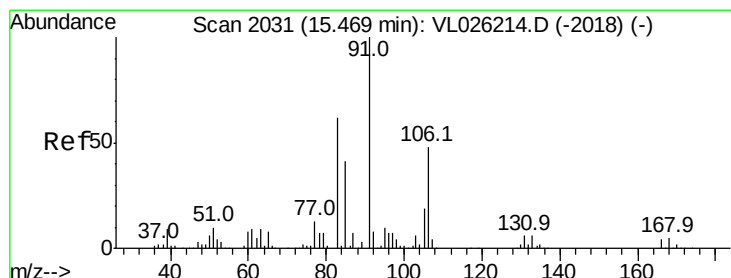
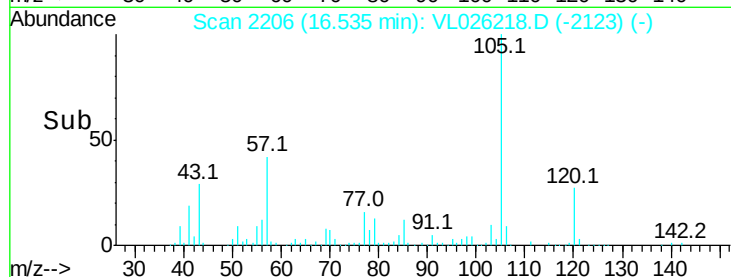
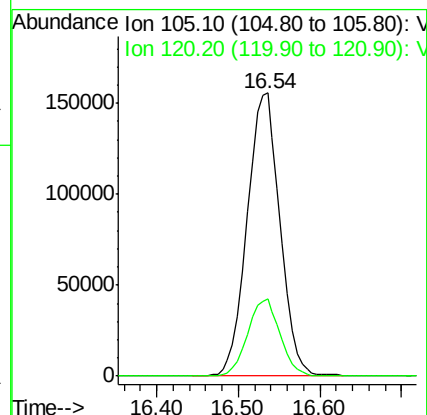
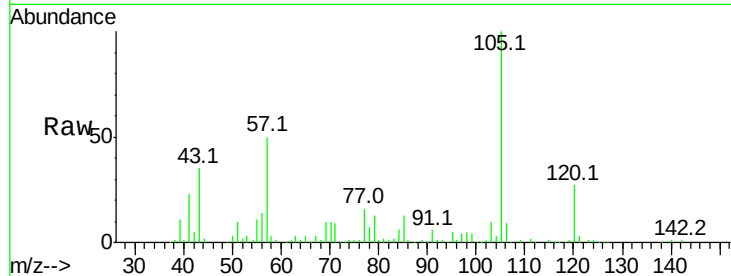
SS-1DL

Tot Ion:105 Resp: 436067

Ion Ratio Lower Upper

105 100

120 26.8 21.8 32.8



#63

1,1,2,2-Tetrachloroethane

Concen: 0.29 ppbv

RT: 15.47 min Scan# 2032

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

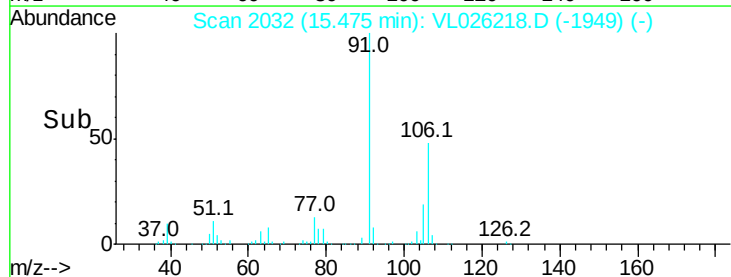
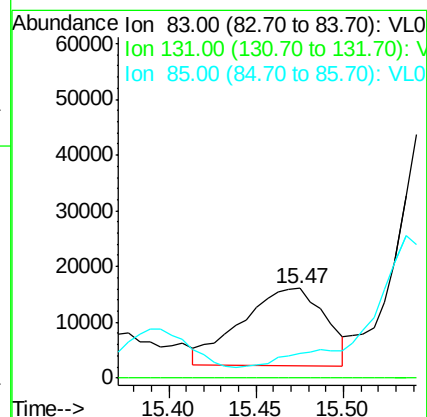
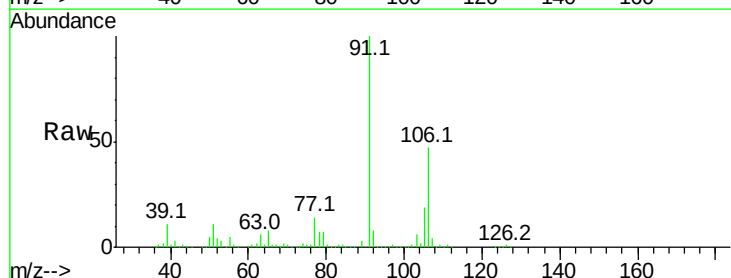
Tgt Ion: 83 Resp: 46701

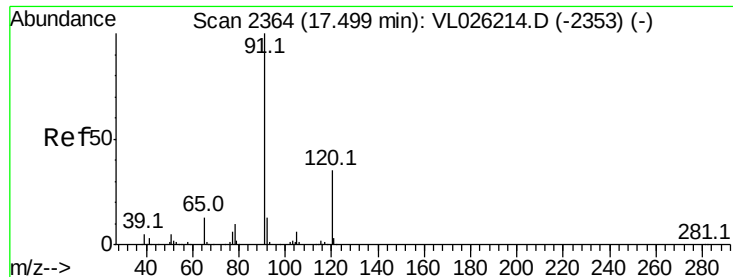
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 45.9 32.3 96.9





#64

n-propylbenzene

Concen: 1.80 ppbv

RT: 17.50 min Scan# 2365

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampled :

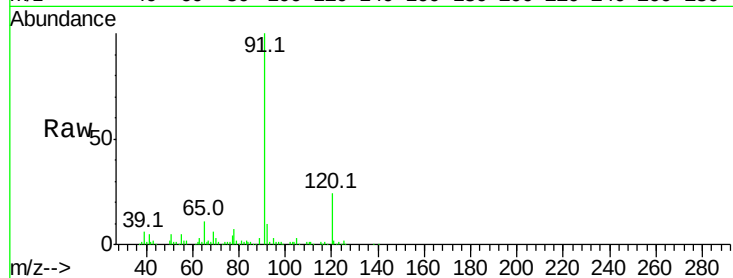
SS-1DL

Tot Ion:120 Resp: 165833

Ion Ratio Lower Upper

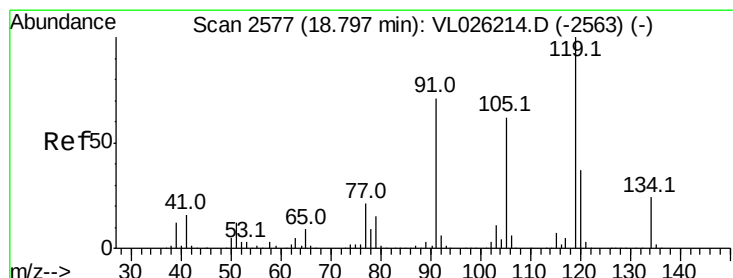
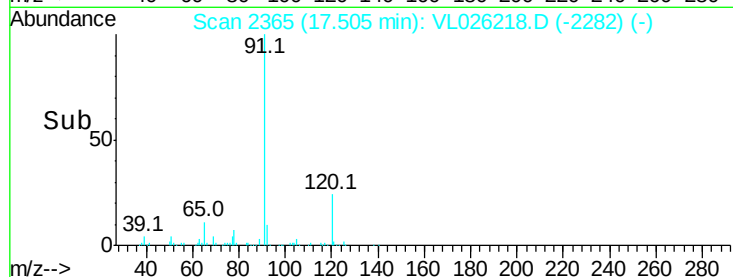
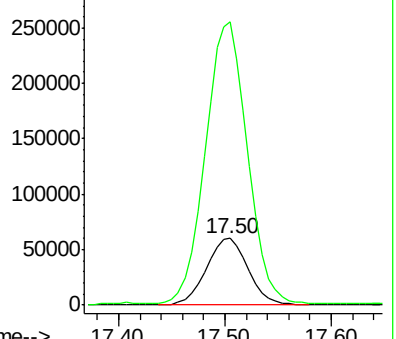
120 100

91 429.8 331.7 497.5



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.24 ppbv

RT: 18.80 min Scan# 2578

Delta R.T. 0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

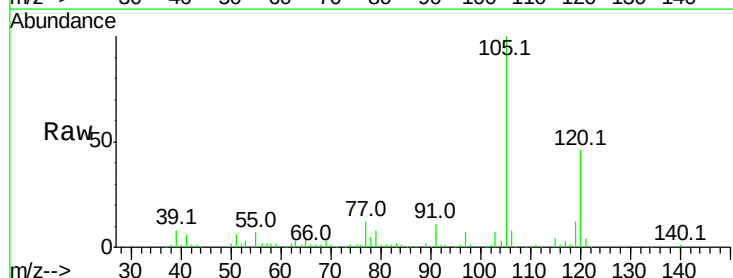
Tgt Ion:119 Resp: 73283

Ion Ratio Lower Upper

119 100

91 91.7 57.5 86.3#

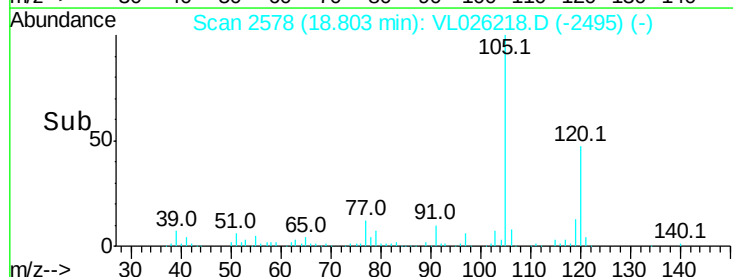
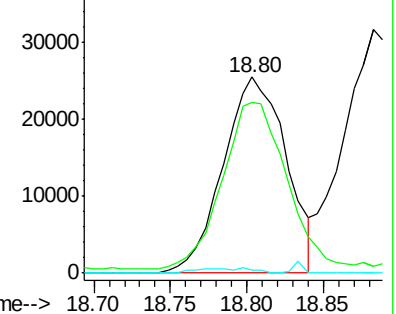
134 2.1 18.1 27.1#

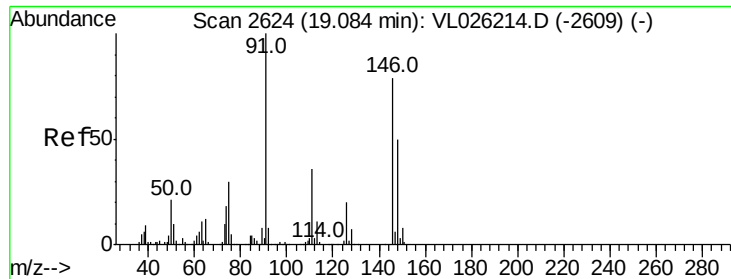


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

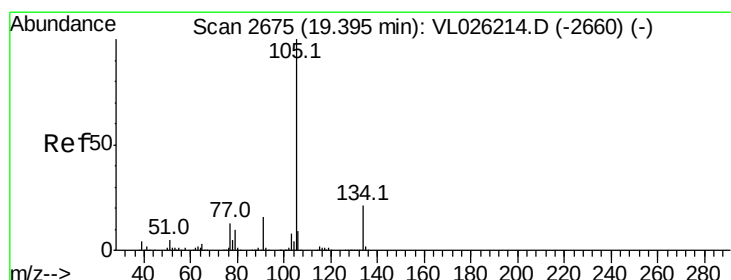
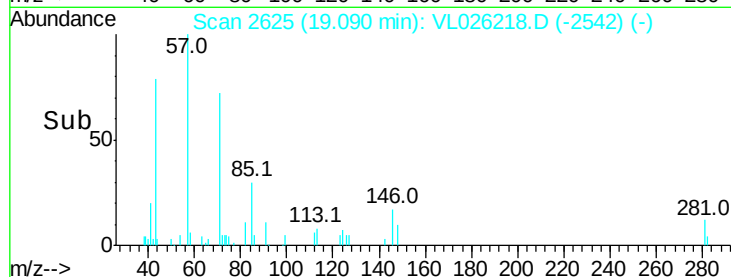
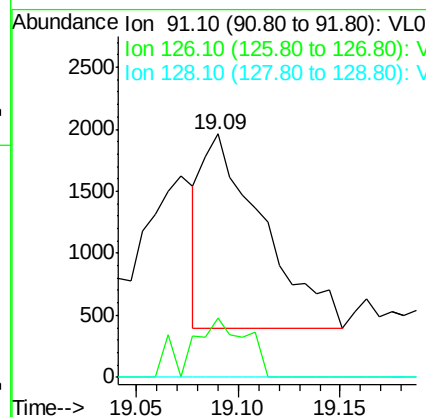
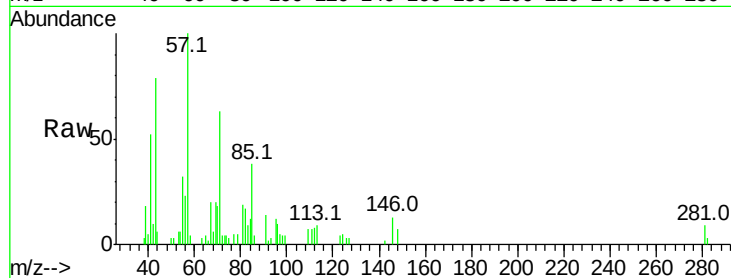




#66
Benzyl Chloride
Concen: 0.03 ppbv
RT: 19.09 min Scan# 2625
Delta R.T. 0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

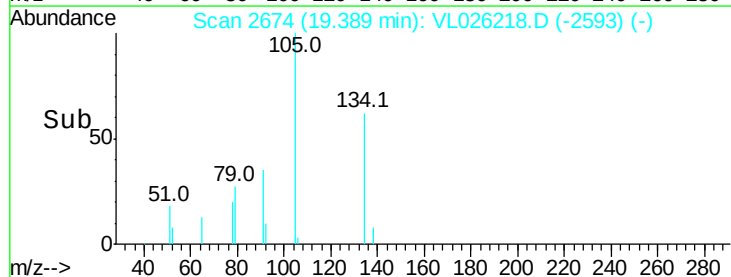
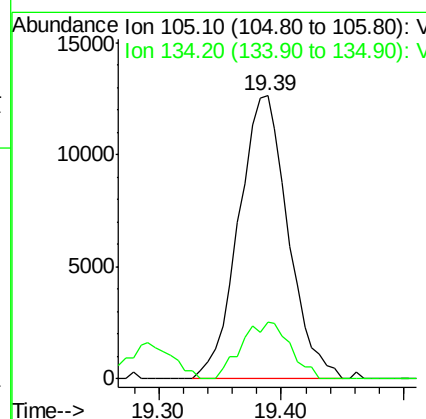
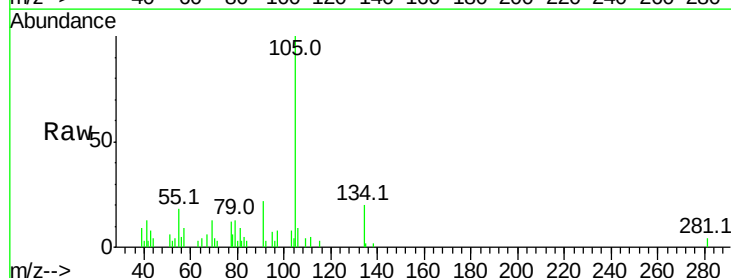
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL

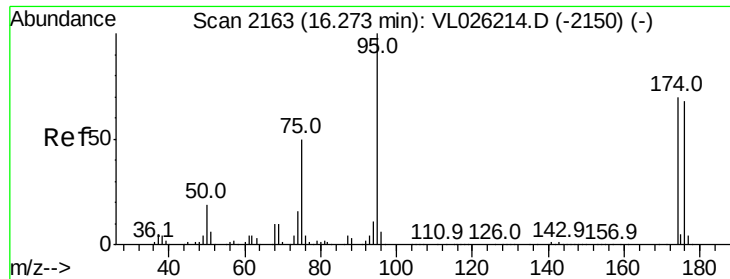
Tot Ion: 91 Resp: 3263
Ion Ratio Lower Upper
91 100
126 28.0 16.2 24.2#
128 0.0 5.1 7.7#



#67
sec-Butylbenzene
Concen: 0.08 ppbv
RT: 19.39 min Scan# 2674
Delta R.T. -0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion: 105 Resp: 35528
Ion Ratio Lower Upper
105 100
134 19.7 16.2 24.4

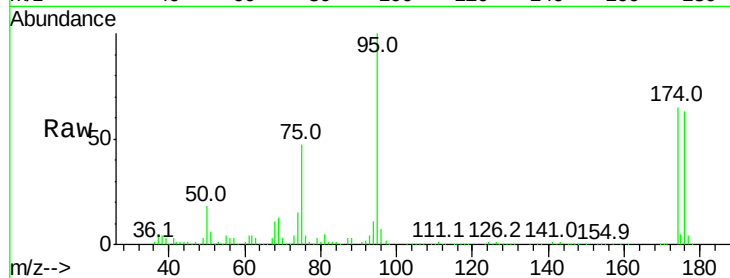




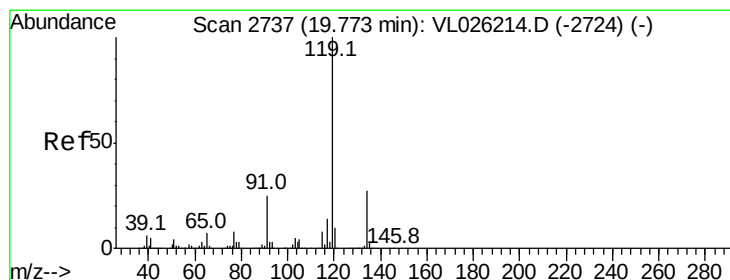
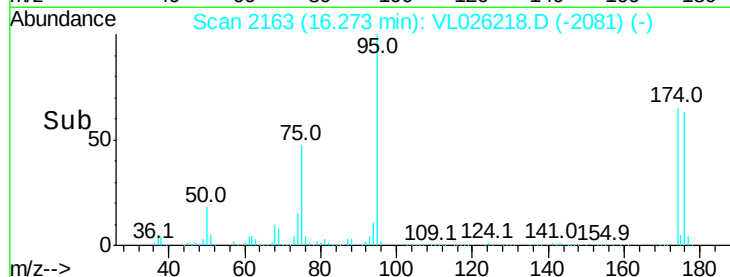
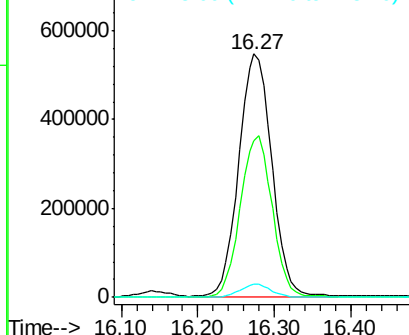
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.68 ppbv
 RT: 16.27 min Scan# 2163
 Delta R.T. 0.00 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Tot Ion: 95 Resp: 1633265
 Ion Ratio Lower Upper
 95 100
 174 64.9 55.8 83.8
 175 5.2 4.3 6.5

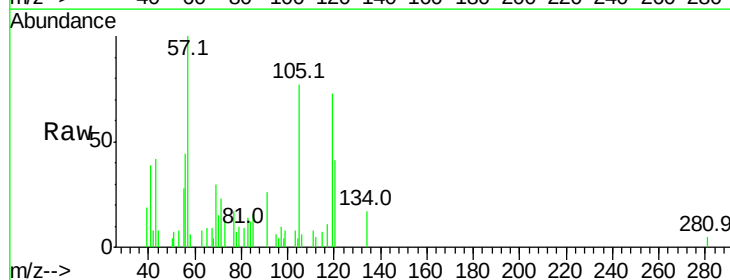


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

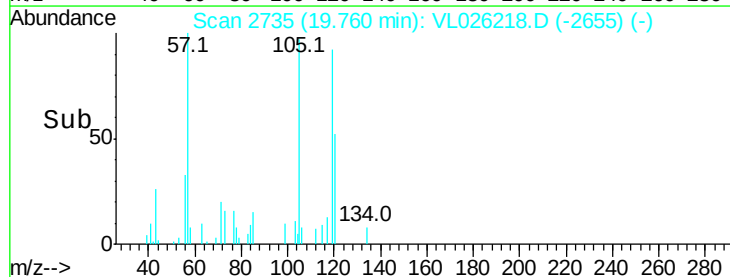
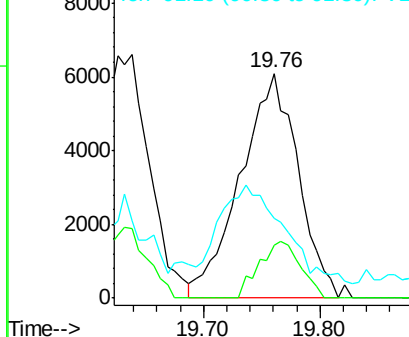


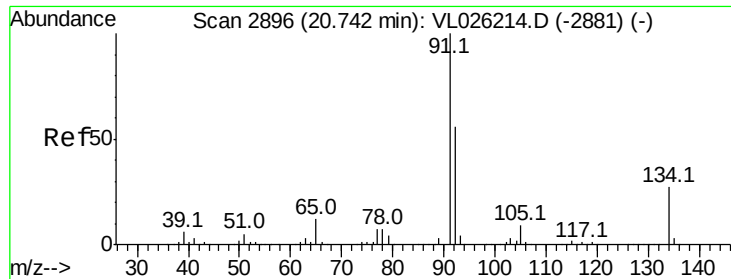
#69
 p-Isopropyltoluene
 Concen: 0.06 ppbv
 RT: 19.76 min Scan# 2735
 Delta R.T. -0.01 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Tgt Ion: 119 Resp: 20794
 Ion Ratio Lower Upper
 119 100
 134 18.1 21.4 32.0#
 91 51.0 19.5 29.3#



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

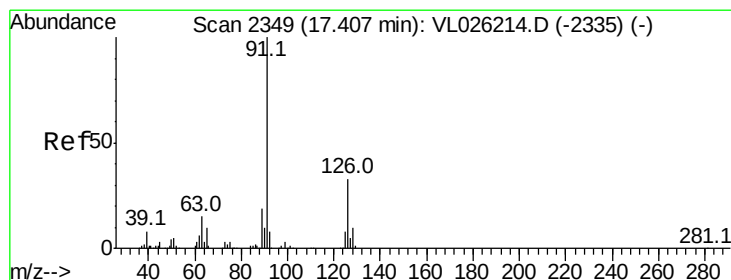
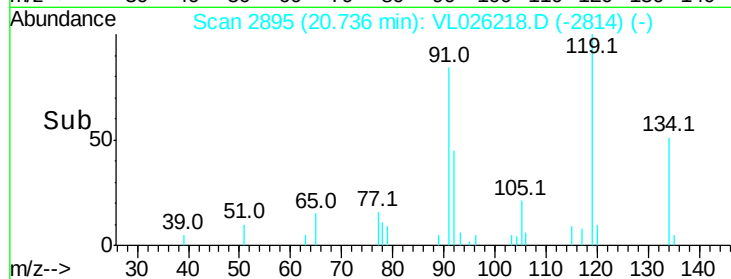
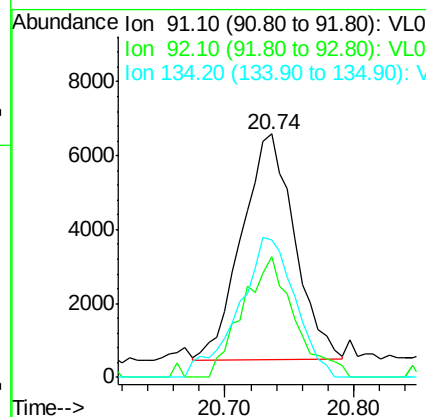
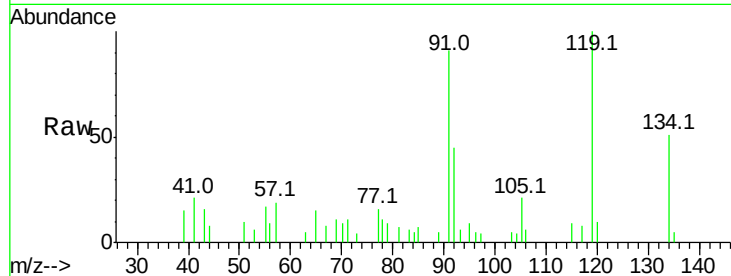




#70
n-Butylbenzene
Concen: 0.05 ppbv
RT: 20.74 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

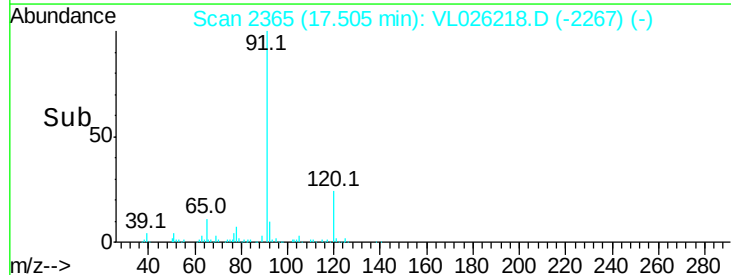
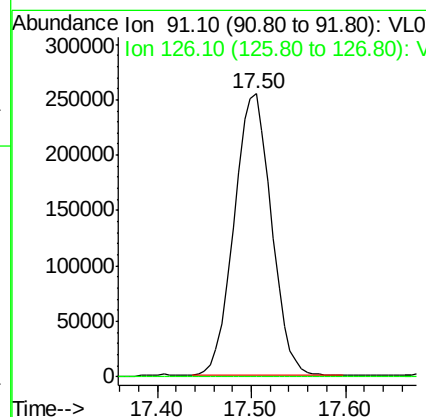
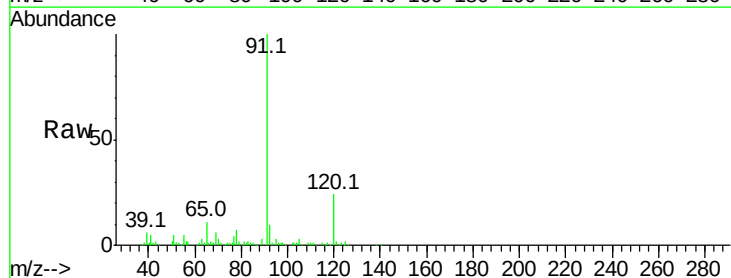
Instrument :
MSVOA_L
ClientSampled :
SS-1DL

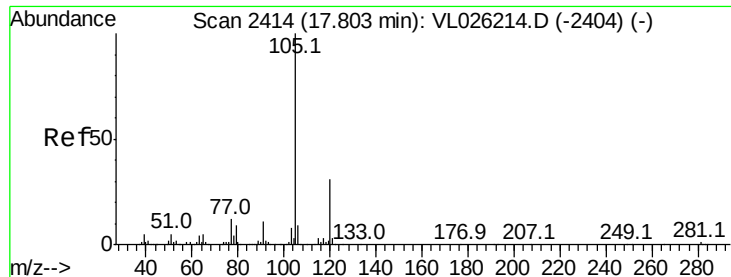
Tot Ion: 91 Resp: 17351
Ion Ratio Lower Upper
91 100
92 52.7 45.0 67.6
134 65.8 21.4 32.0#



#71
2-Chlorotoluene
Concen: 2.82 ppbv
RT: 17.50 min Scan# 2365
Delta R.T. 0.10 min
Lab File: VL026218.D
Acq: 20 Oct 2015 23:07

Tgt Ion: 91 Resp: 695090
Ion Ratio Lower Upper
91 100
126 0.0 12.9 51.7#





#72

4-Ethyltoluene

Concen: 1.54 ppbv

RT: 17.80 min Scan# 2413

Delta R.T. -0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

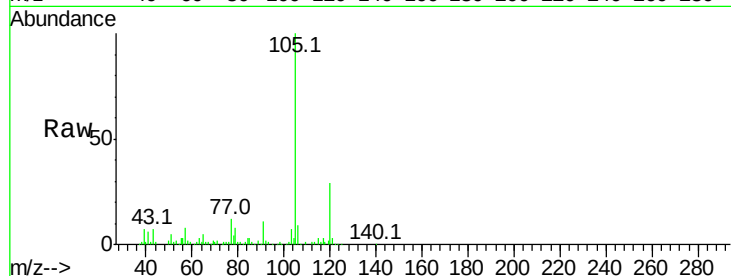
Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

Tot Ion:105	Resp:	430197
Ion	Ratio	Lower Upper
105	100	
120	30.8	25.2 37.8
91	10.7	9.0 13.6
77	11.3	9.7 14.5

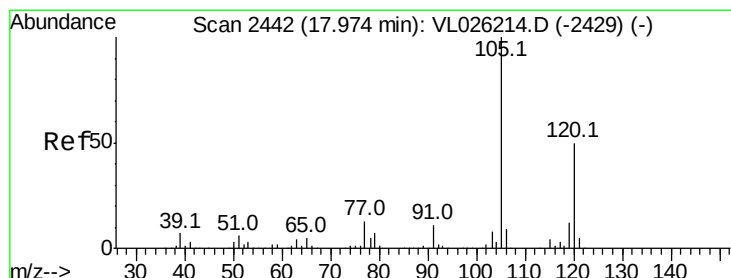
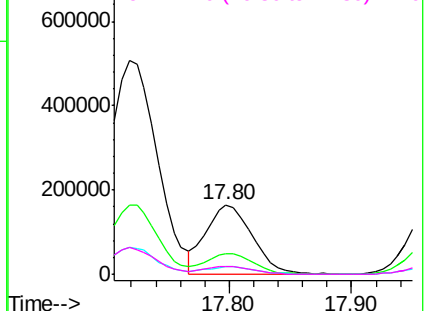
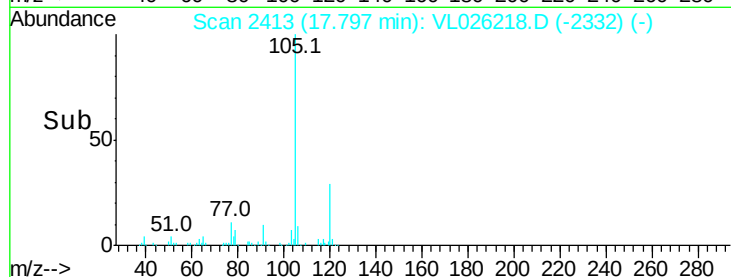


Abundance Ion 105.10 (104.80 to 105.80): V

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: 1.59 ppbv

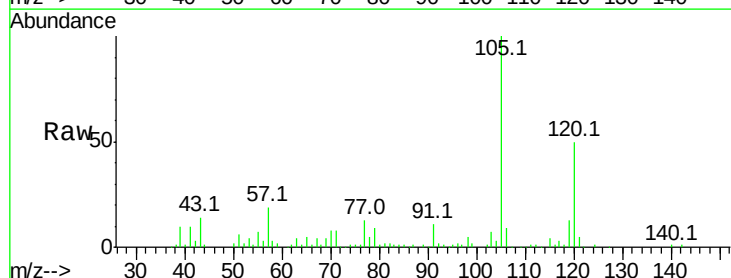
RT: 17.96 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL026218.D

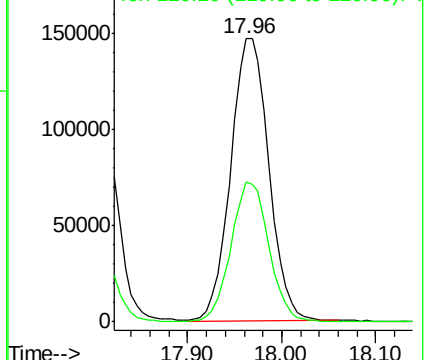
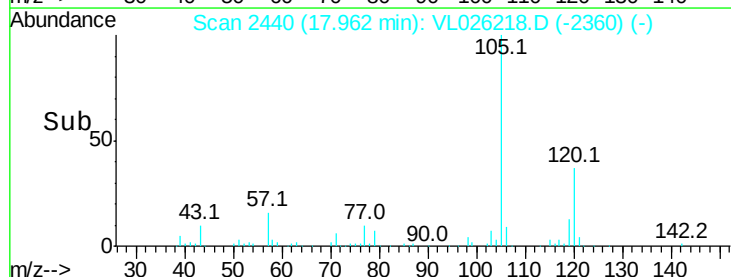
Acq: 20 Oct 2015 23:07

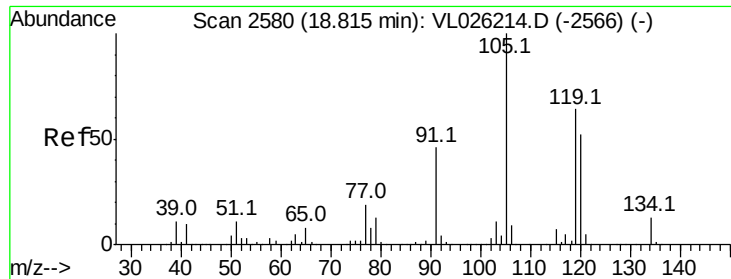
Tgt Ion:105	Resp:	413985
Ion	Ratio	Lower Upper
105	100	
120	49.6	39.8 59.6



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: 2.20 ppbv

RT: 18.80 min Scan# 2578

Delta R.T. -0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

Tot Ion:105 Resp: 594499

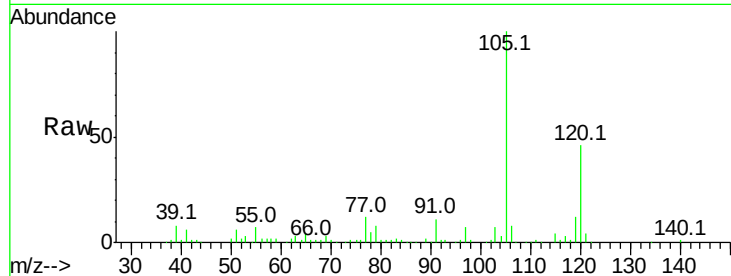
Ion Ratio Lower Upper

105 100

120 46.2 41.2 61.8

91 10.3 37.2 55.8#

77 12.4 15.6 23.4#

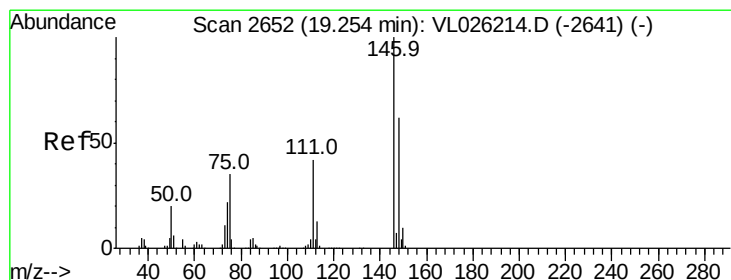
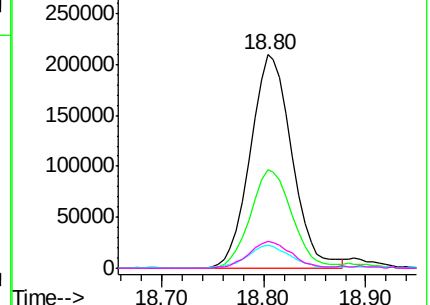
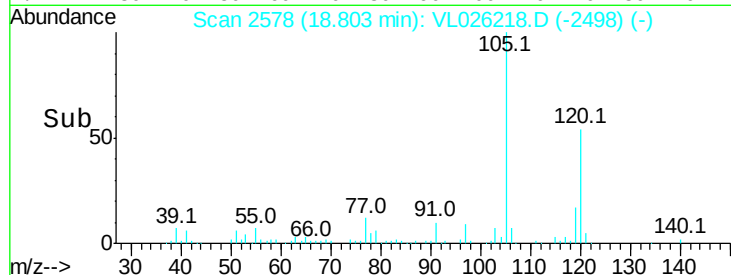


Abundance Ion 105.10 (104.80 to 105.80): V

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



#76

1,4-Dichlorobenzene

Concen: 0.04 ppbv

RT: 19.25 min Scan# 2651

Delta R.T. -0.01 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

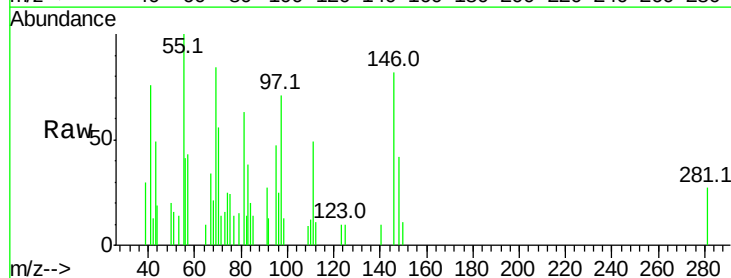
Tgt Ion:146 Resp: 7411

Ion Ratio Lower Upper

146 100

111 144.1 20.8 62.2#

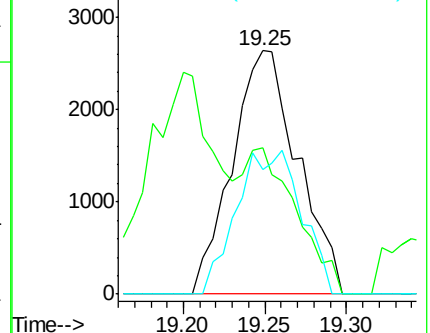
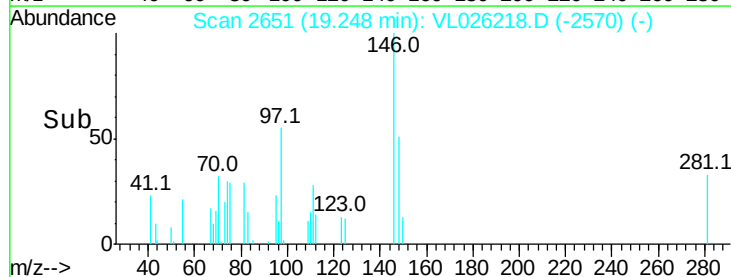
148 57.6 31.9 95.9

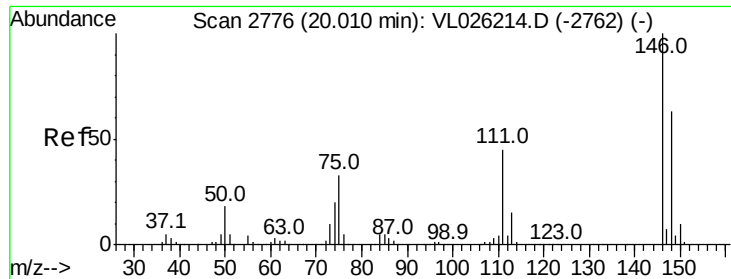


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

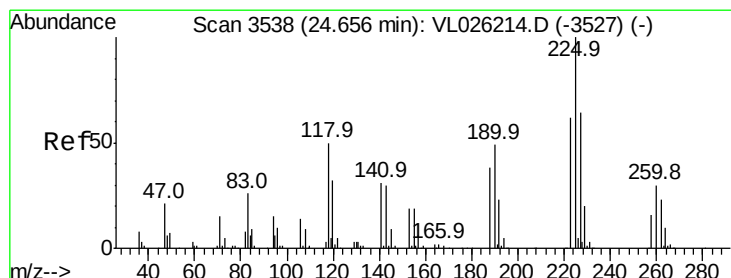
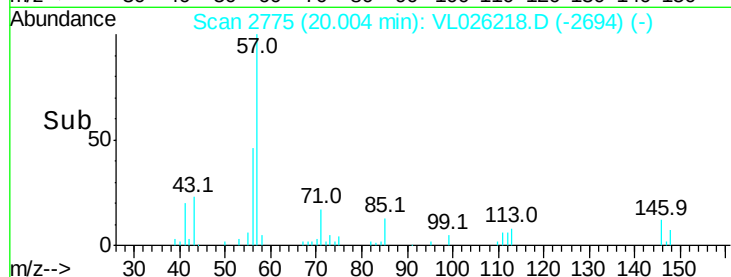
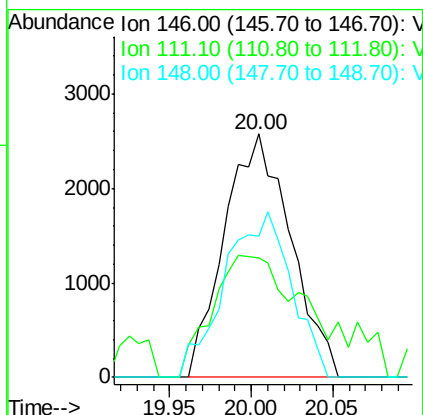
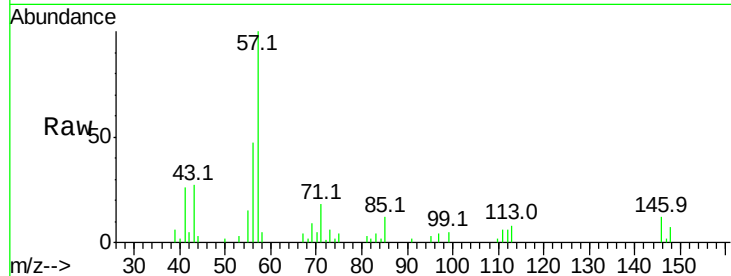




#77
 1,2-Dichlorobenzene
 Concen: 0.04 ppbv
 RT: 20.00 min Scan# 2775
 Delta R.T. -0.01 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

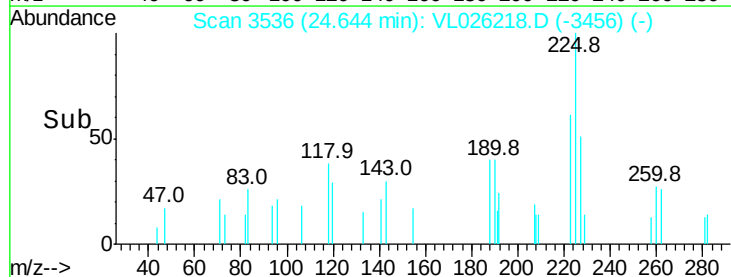
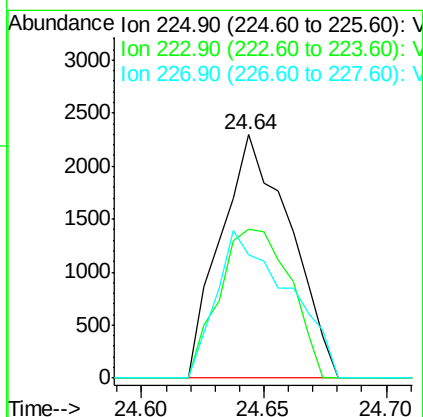
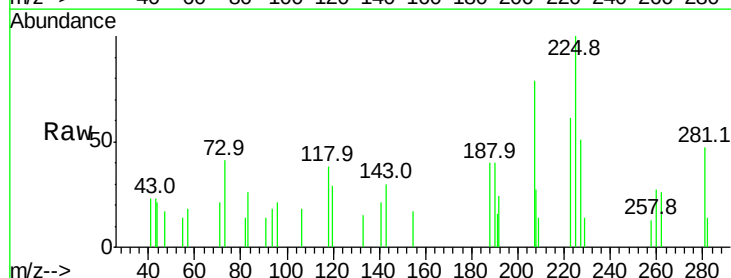
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

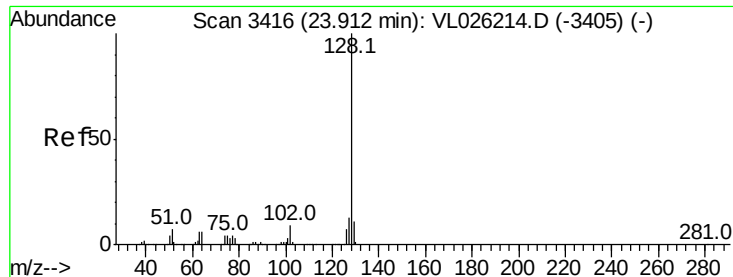
Tot Ion:146 Resp: 7281
 Ion Ratio Lower Upper
 146 100
 111 78.8 22.6 67.7#
 148 68.3 31.6 95.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.05 ppbv
 RT: 24.64 min Scan# 3536
 Delta R.T. -0.01 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Tgt Ion:225 Resp: 4530
 Ion Ratio Lower Upper
 225 100
 223 62.3 50.2 75.2
 227 62.0 50.8 76.2





#79

Naphthalene

Concen: 0.05 ppbv

RT: 23.91 min Scan# 3416

Delta R.T. 0.00 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL

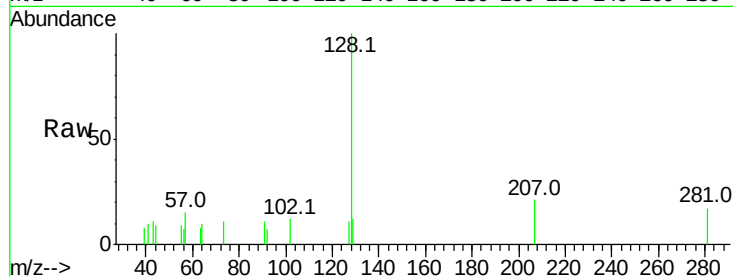
Tot Ion:128 Resp: 12178

Ion Ratio Lower Upper

128 100

127 11.3 10.4 15.6

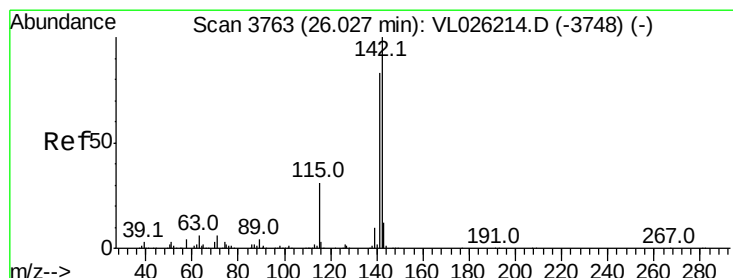
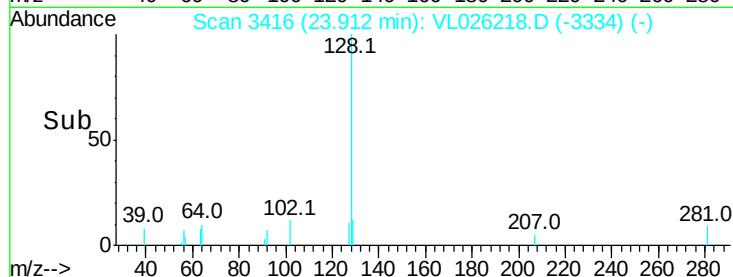
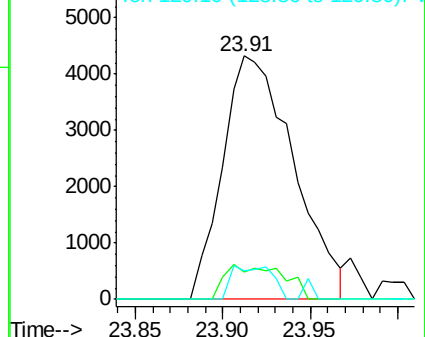
129 11.7 8.8 13.2



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



#80

Naphthalene, 2-methyl-

Concen: 0.04 ppbv

RT: 26.05 min Scan# 3766

Delta R.T. 0.02 min

Lab File: VL026218.D

Acq: 20 Oct 2015 23:07

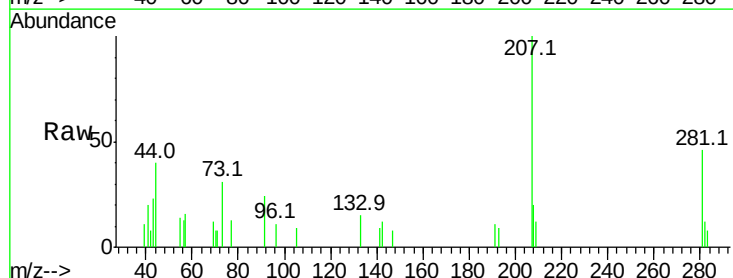
Tgt Ion:142 Resp: 1530

Ion Ratio Lower Upper

142 100

141 74.4 66.5 99.7

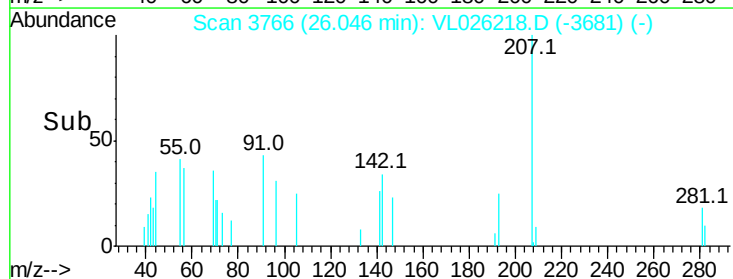
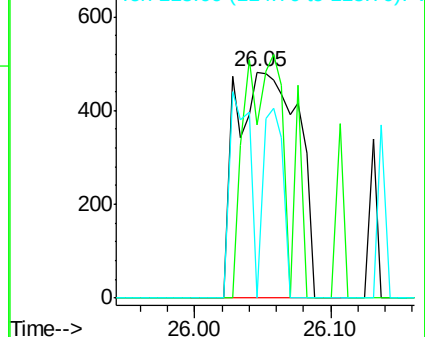
115 56.1 24.2 36.4#

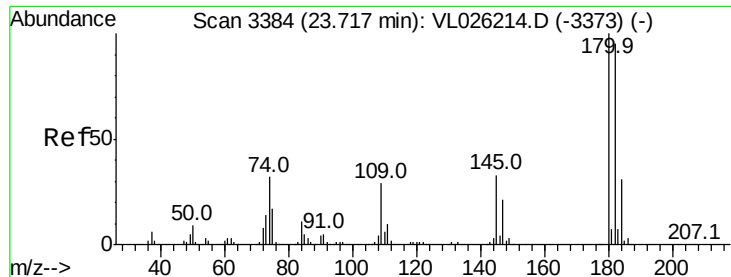


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

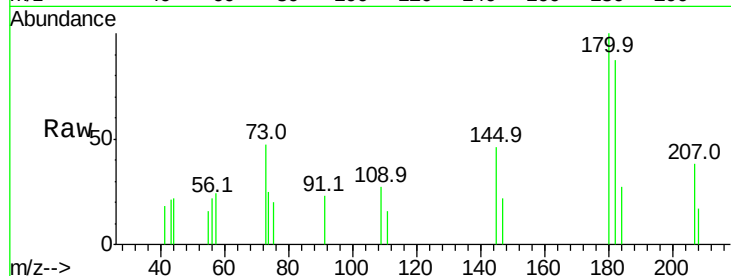




#81
 1,2,4-Trichlorobenzene
 Concen: 0.04 ppbv
 RT: 23.71 min Scan# 3383
 Delta R.T. -0.01 min
 Lab File: VL026218.D
 Acq: 20 Oct 2015 23:07

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL

Tot Ion:180 Resp: 5033
 Ion Ratio Lower Upper
 180 100
 182 90.8 76.7 115.1
 184 21.5 24.2 36.2#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

