

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026220.D
 Acq On : 21 Oct 2015 00:24
 Operator : SY/MD
 Sample : G3973-03 60X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3

Quant Time: Oct 21 15:08:07 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	6.65	49	514751	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.37	114	822776	10.00	ppbv	0.05
55) Chlorobenzene-d5	13.79	117	1712926	10.00	ppbv	0.06

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.32	95	3731838	28.25	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	282.50%#

Target Compounds					Ovalue
3) Chlorodifluoromethane	3.55	51	90686	1.39	ppbv 100
4) Chloromethane	3.81	50	33573	0.95	ppbv # 69
7) Chloroethane	4.59	64	12773	0.82	ppbv # 1
9) Propene	3.81	41	1278910	41.93	ppbv 93
10) Heptane	9.48	43	26910910	263.47	ppbv # 84
13) Ethanol	4.35	45	18678	4.08	ppbv 99
15) Acetone	4.59	43	21053384	277.86	ppbv # 60
16) 1,3-Butadiene	3.98	39	3528272	104.40	ppbv # 10
17) tert-Butyl alcohol	5.17	59	7722	0.15	ppbv # 72
20) Methylene Chloride	5.11	84	163597	5.41	ppbv # 15
21) Allyl Chloride	5.19	41	5066758	102.40	ppbv # 55
23) Vinyl Acetate	6.06	43	44679936	319.80	ppbv # 6
24) 1,1-Dichloroethane	5.84	63	8861	0.10	ppbv # 85
25) Ethyl Acetate	6.74	43	22731989	160.03	ppbv # 77
26) Hexane	6.74	57	28920792	407.37	ppbv # 46
28) Methyl tert-Butyl Ether	5.98	73	5190	0.04	ppbv # 54
29) Chloroform	6.98	83	14050	0.14	ppbv # 38
30) Cyclohexane	8.35	84	18246628	256.98	ppbv 96
31) cis-1,2-Dichloroethene	6.53	61	3999	0.06	ppbv # 80
32) 1,1,1-Trichloroethane	7.88	97	25094	0.22	ppbv # 85
34) 2-Butanone	6.37	43	11999618	258.03	ppbv # 53
36) Benzene	8.06	78	3934166	46.95	ppbv 93
37) 1,2-Dichloroethane	7.34	62	8105	0.19	ppbv # 1
38) Trichloroethene	9.12	130	38687	0.95	ppbv # 26
39) 1,2-Dichloropropane	8.78	63	87422	2.97	ppbv # 1
41) Tetrahydrofuran	7.20	42	1228082	45.62	ppbv # 34
42) Bromodichloromethane	9.10	83	5361344	86.55	ppbv # 26
43) Methyl Methacrylate	9.29	69	3224799	105.73	ppbv # 1
44) 2,2,4-Trimethylpentane	9.09	57	1333838	9.83	ppbv # 1
45) t-1,3-Dichloropropene	10.70	75	2581	0.05	ppbv # 1
47) 1,1,2-Trichloroethane	11.04	97	649239	17.53	ppbv # 57
50) 4-Methyl-2-Pentanone	10.18	43	1480190	23.58	ppbv # 75
51) 2-Hexanone	11.61	43	31276910	533.41	ppbv # 30
52) Tetrachloroethene	12.87	164	2250	0.05	ppbv # 68
53) Toluene	11.30	91	1228479	10.78	ppbv 95
54) 1,2-Dibromoethane	12.25	107	6270	0.11	ppbv # 1
57) Chlorobenzene	13.91	112	1609031	9.82	ppbv # 44
58) Ethyl Benzene	14.46	91	2212609	7.97	ppbv 99
59) m/p-Xylene	14.77	91	1932219	8.89	ppbv 94
60) o-Xylene	15.54	91	243302	1.07	ppbv 92
61) Styrene	15.35	104	130438	1.27	ppbv 91

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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

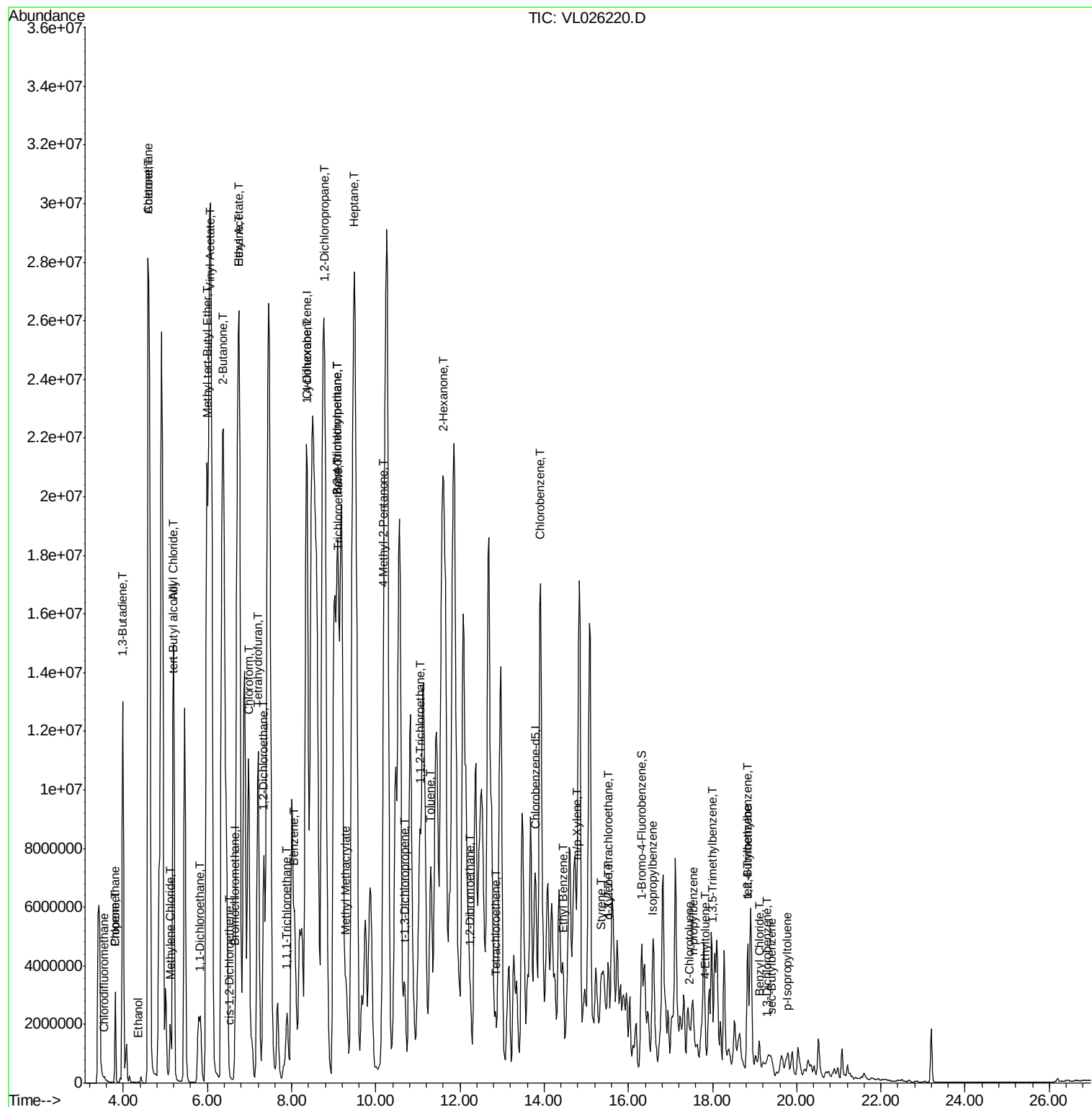
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	16.57	105	816719	2.58	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.52	83	703493	4.68	ppbv #	25
64) n-propylbenzene	17.54	120	204847	2.36	ppbv	77
65) tert-Butylbenzene	18.83	119	454189	1.57	ppbv #	77
66) Benzyl Chloride	19.11	91	10833	0.09	ppbv #	1
67) sec-Butylbenzene	19.41	105	311024	0.77	ppbv	99
69) p-Isopropyltoluene	19.77	119	63090	0.19	ppbv #	65
71) 2-Chlorotoluene	17.46	91	19549	0.08	ppbv #	42
72) 4-Ethyltoluene	17.83	105	232966	0.88	ppbv #	92
73) 1,3,5-Trimethylbenzene	18.00	105	197716	0.80	ppbv	99
74) 1,2,4-Trimethylbenzene	18.83	105	3561581	13.94	ppbv #	74
75) 1,3-Dichlorobenzene	19.28	146	3962	0.02	ppbv #	1

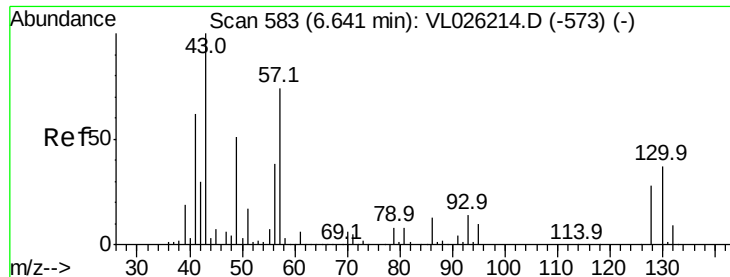
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

SS-3

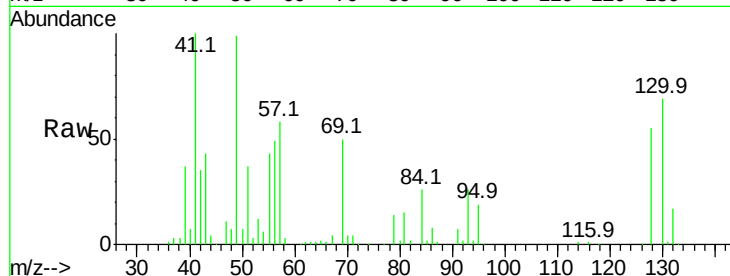
Tot Ion: 49 Resp: 514751

Ion Ratio Lower Upper

49 100

128 53.4 28.2 84.7

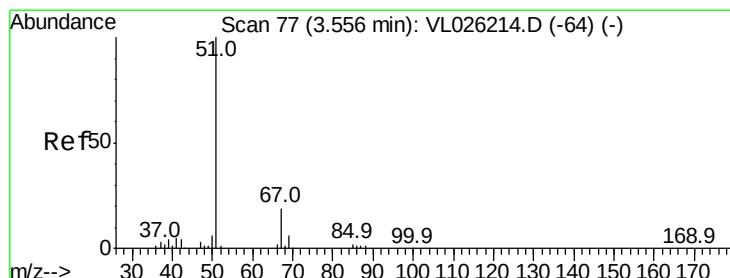
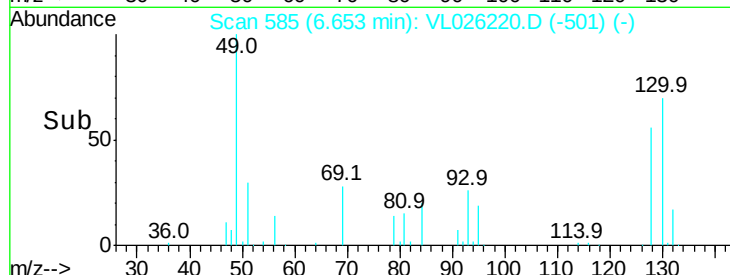
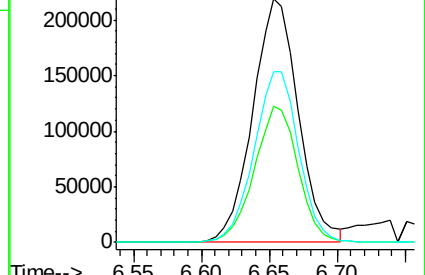
130 68.6 36.0 108.1



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



#3

Chlorodifluoromethane

Concen: 1.39 ppbv

RT: 3.55 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL026220.D

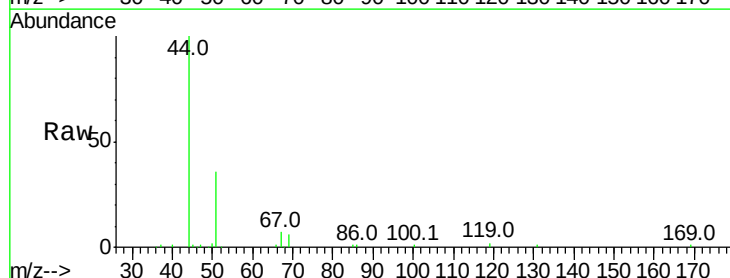
Acq: 21 Oct 2015 00:24

Tgt Ion: 51 Resp: 90686

Ion Ratio Lower Upper

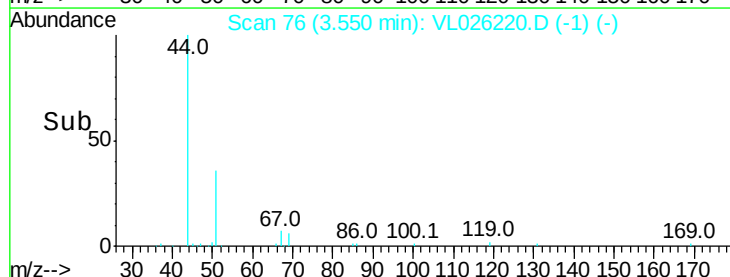
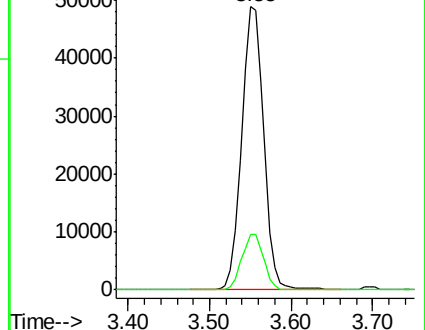
51 100

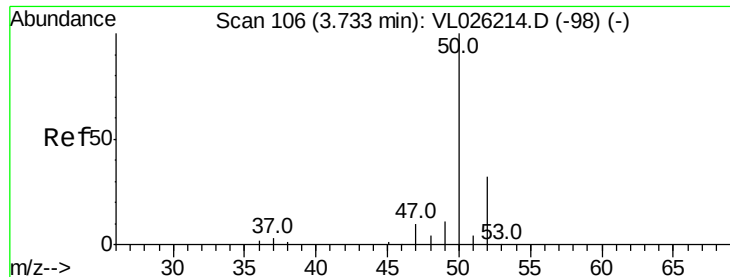
67 19.1 15.3 22.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.95 ppbv

RT: 3.81 min Scan# 119

Delta R.T. 0.08 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

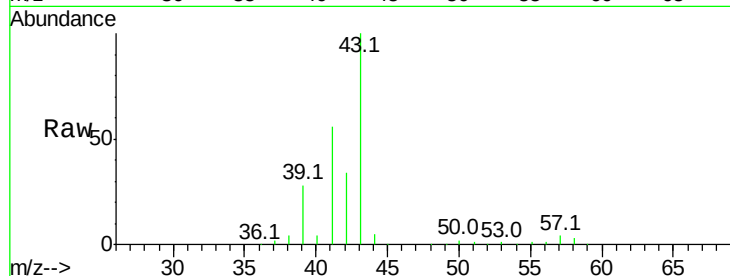
SS-3

Tot Ion: 50 Resp: 33573

Ion Ratio Lower Upper

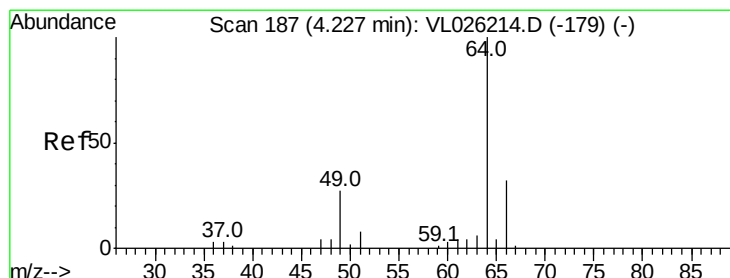
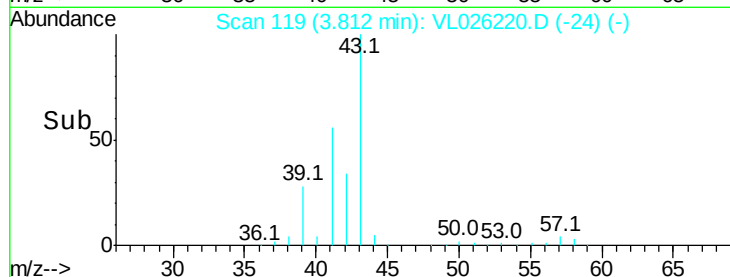
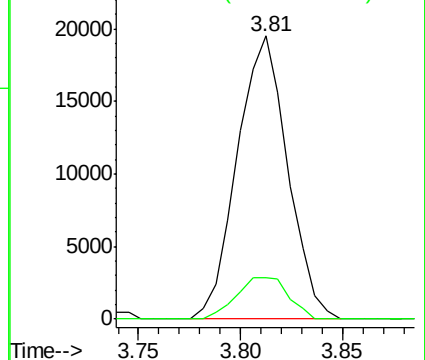
50 100

52 14.7 25.8 38.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#7

Chloroethane

Concen: 0.82 ppbv

RT: 4.59 min Scan# 247

Delta R.T. 0.37 min

Lab File: VL026220.D

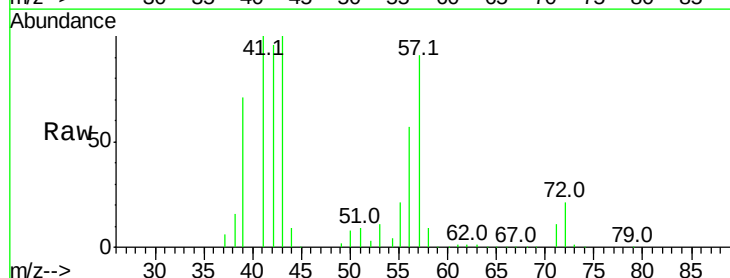
Acq: 21 Oct 2015 00:24

Tgt Ion: 64 Resp: 12773

Ion Ratio Lower Upper

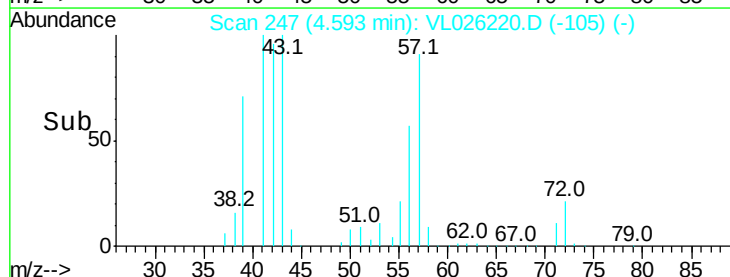
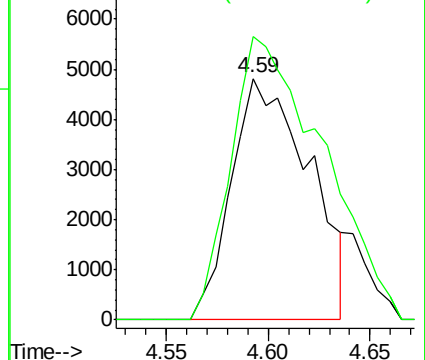
64 100

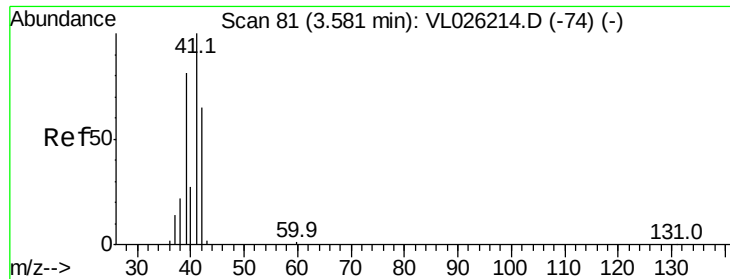
66 117.4 25.4 38.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 41.93 ppbv

RT: 3.81 min Scan# 119

Delta R.T. 0.23 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

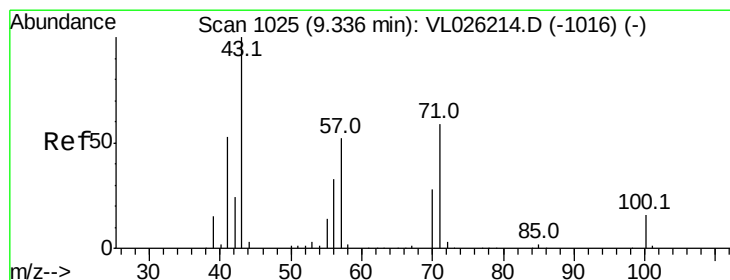
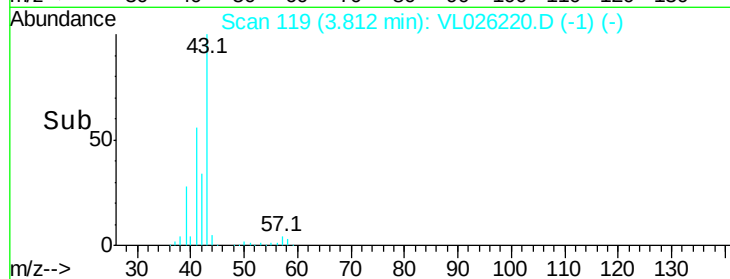
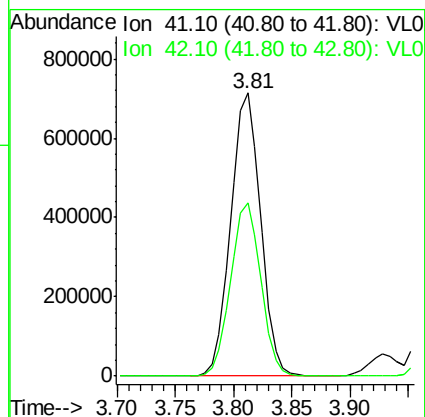
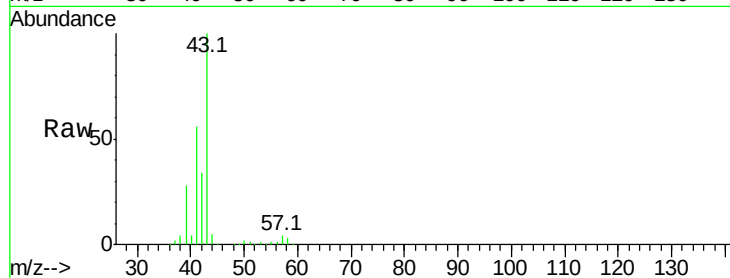
SS-3

Tot Ion: 41 Resp: 1278910

Ion Ratio Lower Upper

41 100

42 61.8 53.8 80.8



#10

Heptane

Concen: 263.47 ppbv

RT: 9.48 min Scan# 1049

Delta R.T. 0.15 min

Lab File: VL026220.D

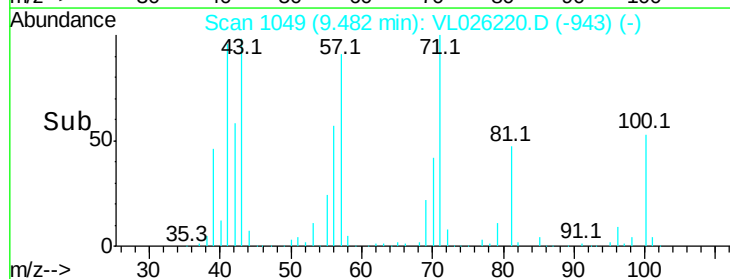
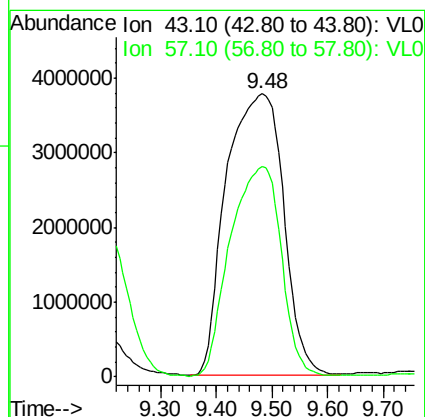
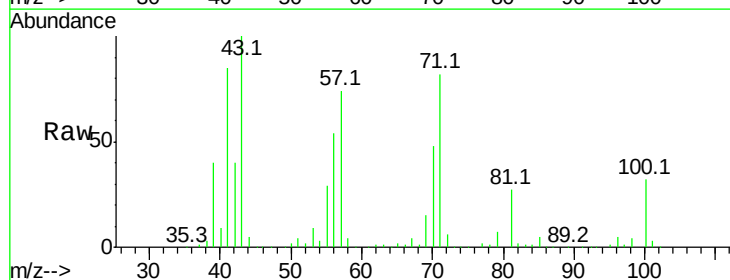
Acq: 21 Oct 2015 00:24

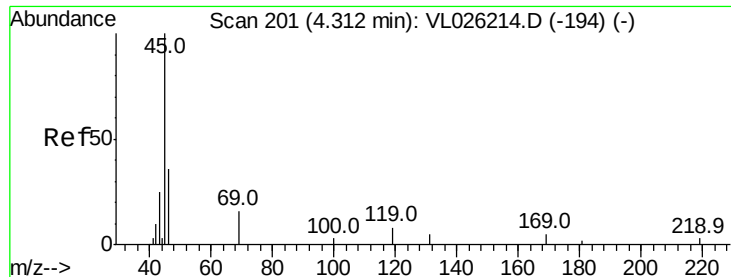
Tgt Ion: 43 Resp: 26910910

Ion Ratio Lower Upper

43 100

57 66.2 43.7 65.5#





#13

Ethanol

Concen: 4.08 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.04 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

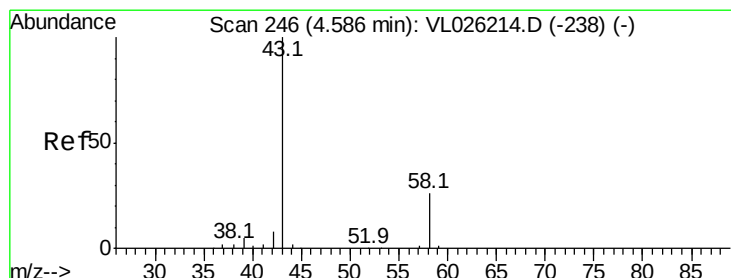
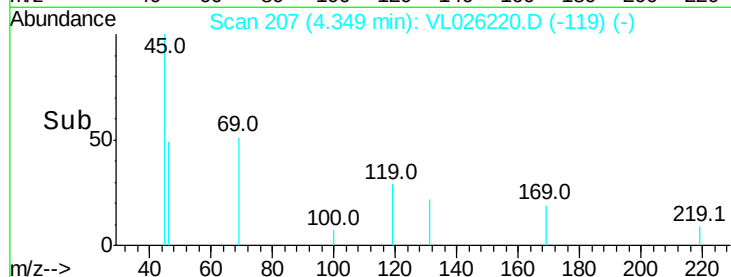
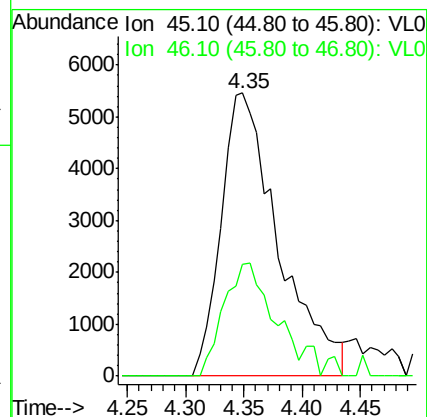
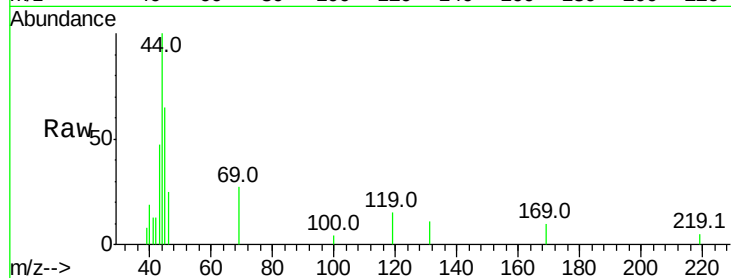
SS-3

Tot Ion: 45 Resp: 18678

Ion Ratio Lower Upper

45 100

46 38.5 15.8 63.0



#15

Acetone

Concen: 277.86 ppbv

RT: 4.59 min Scan# 247

Delta R.T. 0.01 min

Lab File: VL026220.D

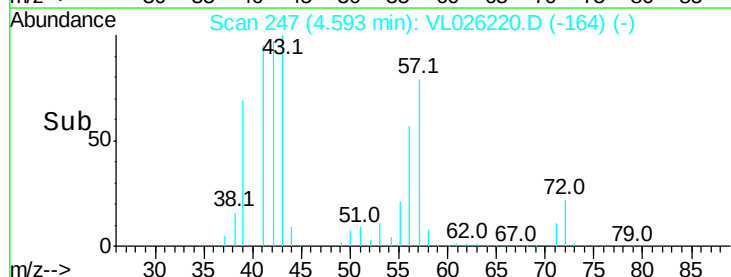
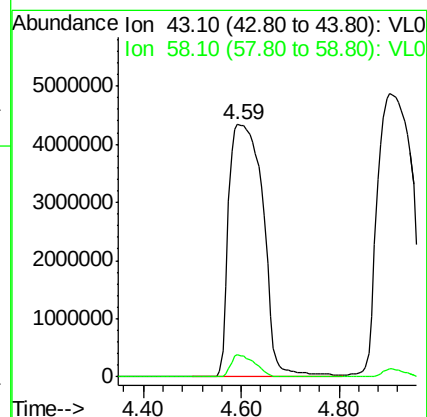
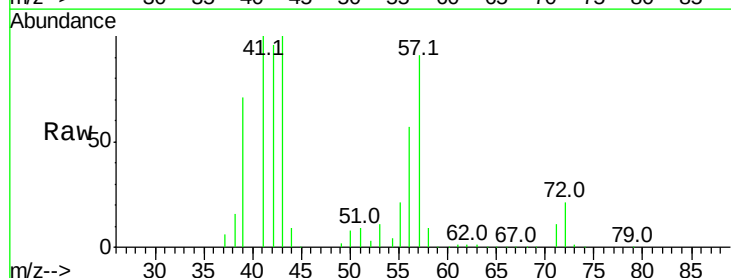
Acq: 21 Oct 2015 00:24

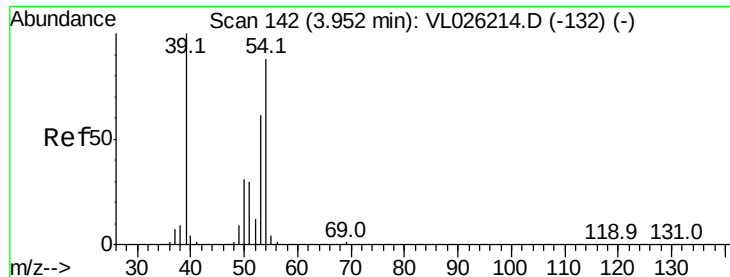
Tgt Ion: 43 Resp: 21053384

Ion Ratio Lower Upper

43 100

58 6.4 21.8 32.6#





#16

1,3-Butadiene

Concen: 104.40 ppbv

RT: 3.98 min Scan# 147

Delta R.T. 0.03 min

Lab File: VL026220.D

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ClientSampleId :

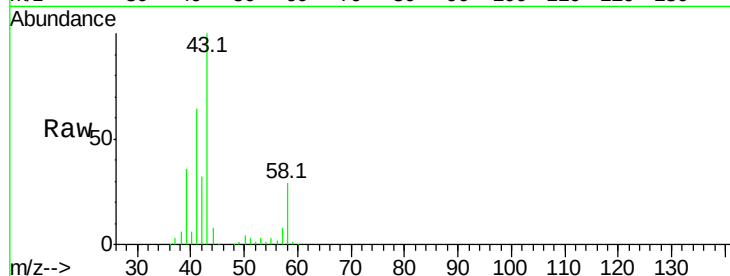
SS-3

Tot Ion: 39 Resp: 3528272

Ion Ratio Lower Upper

39 100

54 2.2 67.3 100.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.98

1500000

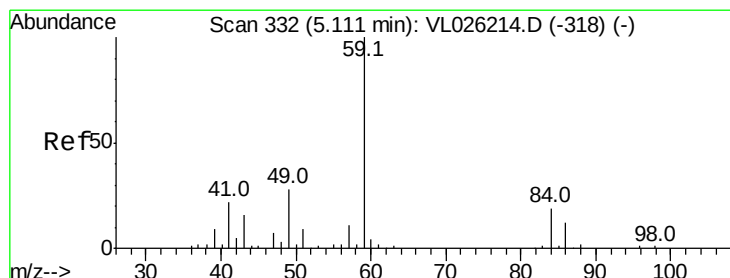
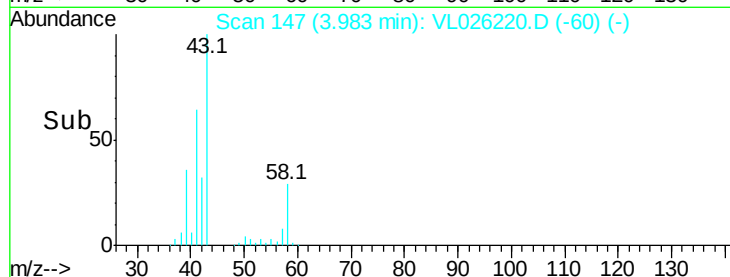
1000000

500000

0

Time-->

3.95 4.00 4.05



#17

tert-Butyl alcohol

Concen: 0.15 ppbv

RT: 5.17 min Scan# 342

Delta R.T. 0.06 min

Lab File: VL026220.D

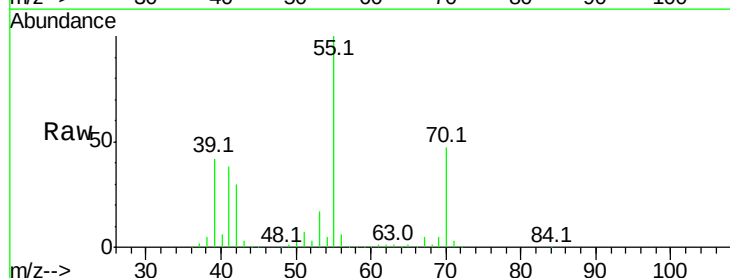
Acq: 21 Oct 2015 00:24

Tgt Ion: 59 Resp: 7722

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

5.17

25000

20000

15000

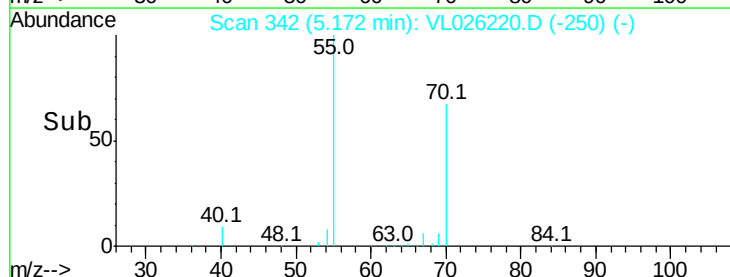
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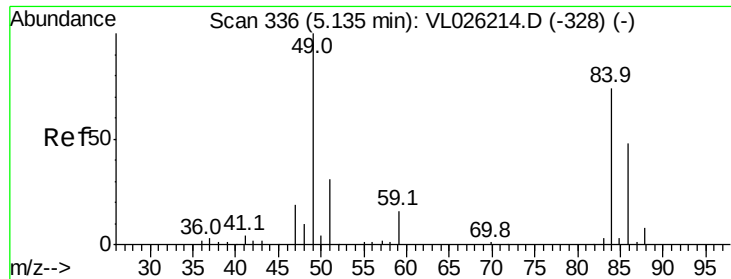
5000

0

Time-->

5.12 5.14 5.16 5.18





#20

Methylene Chloride

Concen: 5.41 ppbv

RT: 5.11 min Scan# 332

Delta R.T. -0.02 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

SS-3

Tot Ion: 84 Resp: 163597

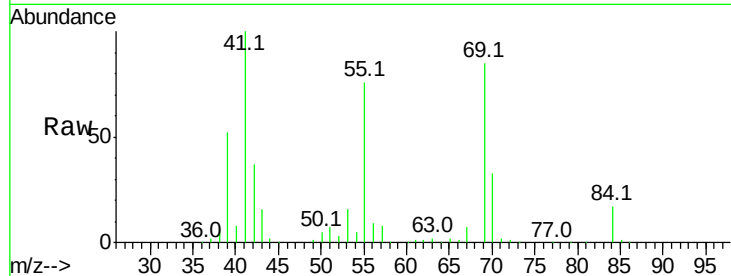
Ion Ratio Lower Upper

84 100

49 4.6 108.7 163.1#

51 36.8 33.7 50.5

86 0.9 52.2 78.2#

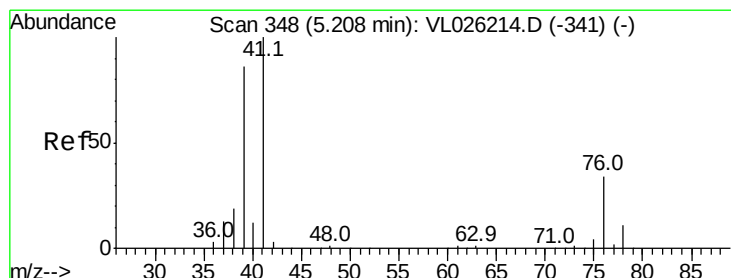
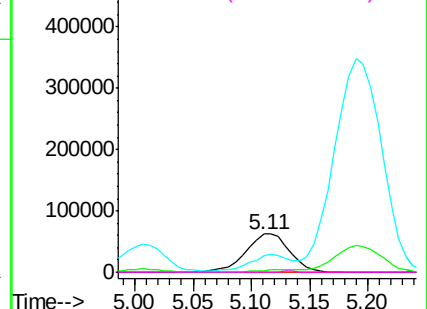
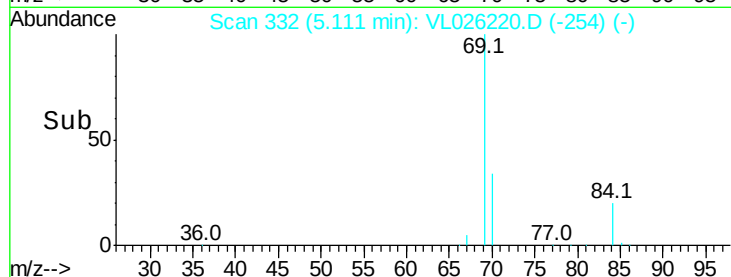


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#21

Allyl Chloride

Concen: 102.40 ppbv

RT: 5.19 min Scan# 345

Delta R.T. -0.02 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

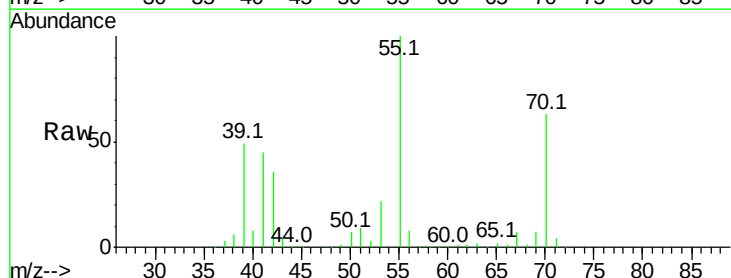
Tgt Ion: 41 Resp: 5066758

Ion Ratio Lower Upper

41 100

76 0.0 26.6 39.8#

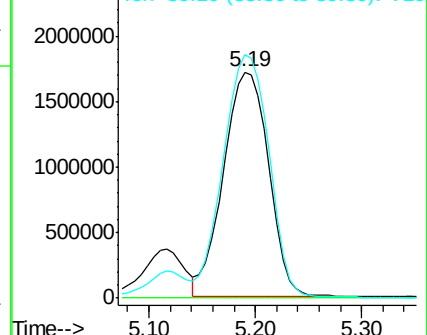
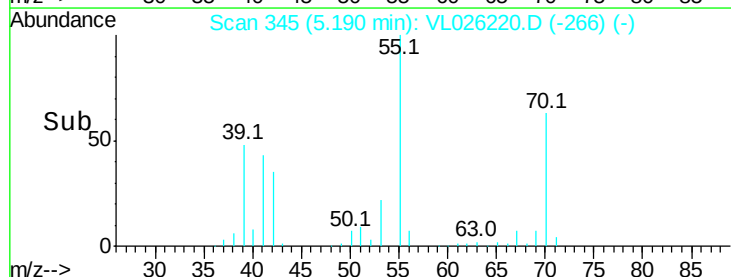
39 120.9 67.4 101.2#

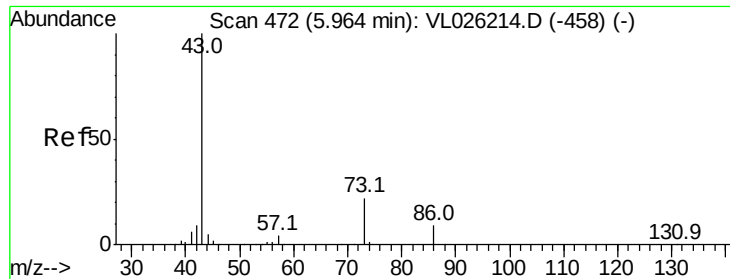


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0

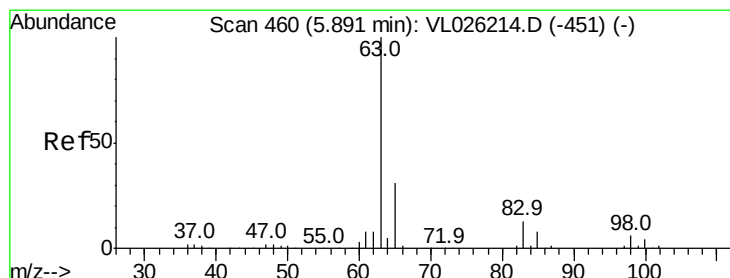
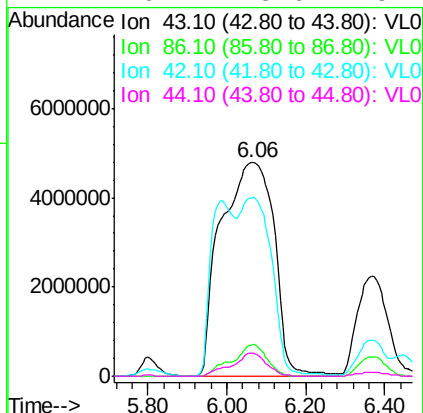
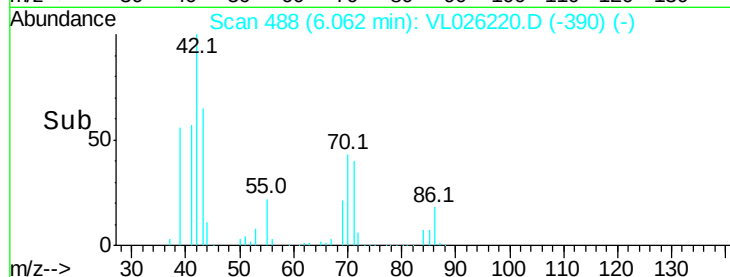
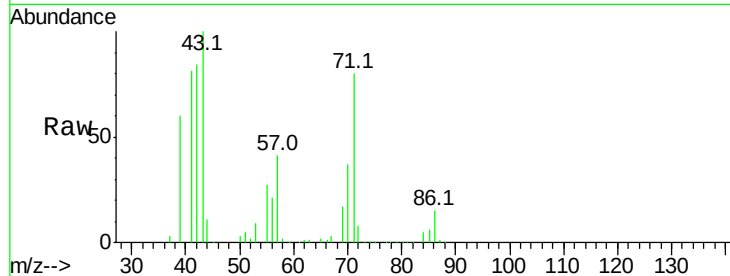




#23
 Vinyl Acetate
 Concen: 319.80 ppbv
 RT: 6.06 min Scan# 488
 Delta R.T. 0.10 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

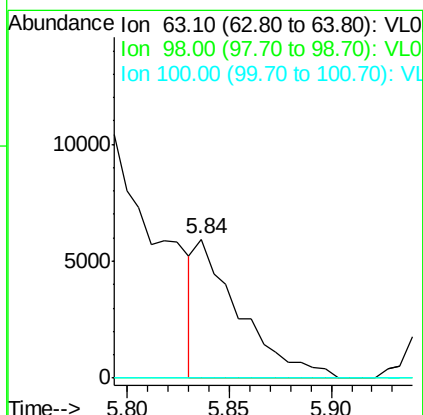
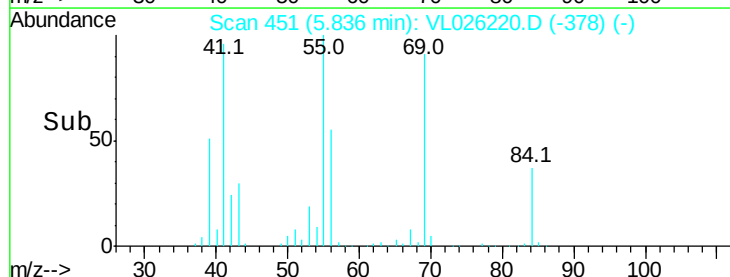
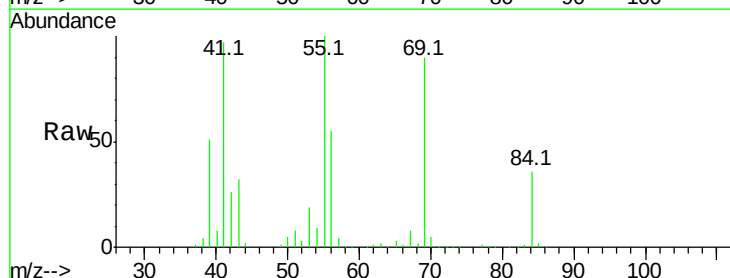
Instrument :
 MSVOA_L
 ClientSampled :
 SS-3

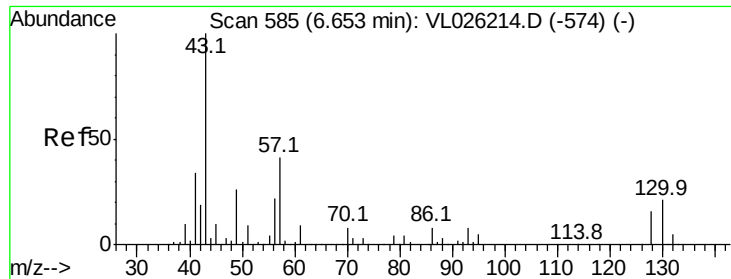
Tot Ion: 43 Resp: 44679936
 Ion Ratio Lower Upper
 43 100
 86 14.6 7.0 10.6#
 42 83.6 7.5 11.3#
 44 10.4 3.6 5.4#



#24
 1,1-Dichloroethane
 Concen: 0.10 ppbv
 RT: 5.84 min Scan# 451
 Delta R.T. -0.05 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

Tgt Ion: 63 Resp: 8861
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.9 8.8#
 100 0.0 1.8 5.5#



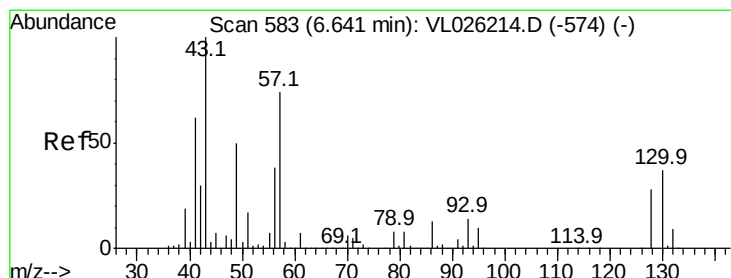
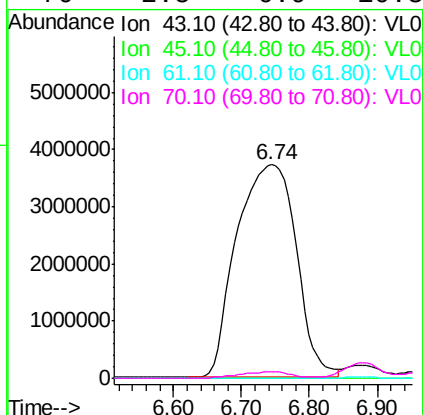
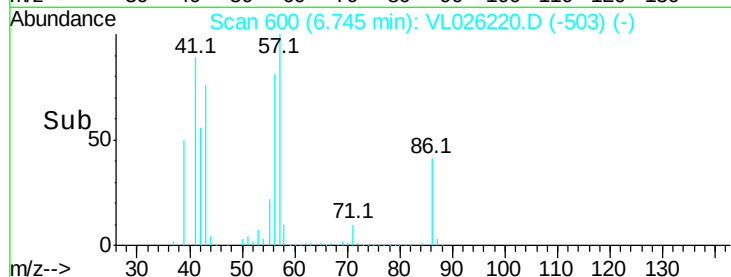
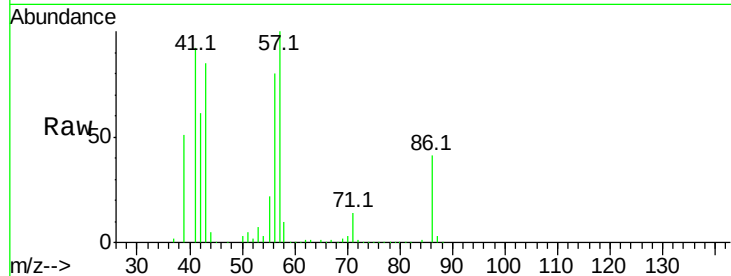


#25
Ethyl Acetate
Concen: 160.03 ppbv
RT: 6.74 min Scan# 600
Delta R.T. 0.09 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Instrument :
MSVOA_L
ClientSampleId :
SS-3

Tot Ion: 43 Resp:22731989

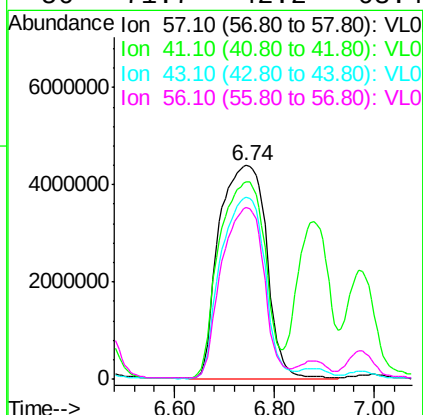
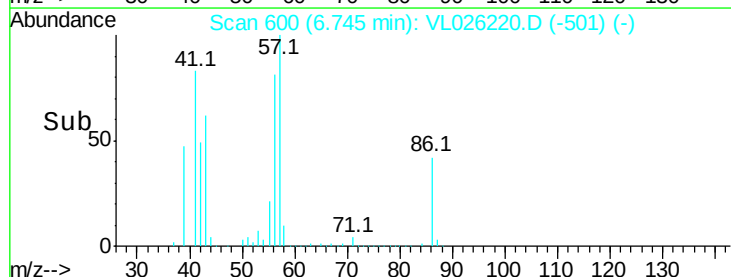
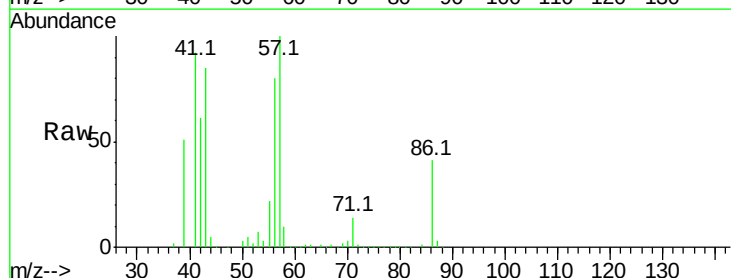
Ion	Ratio	Lower	Upper
43	100		
45	0.1	7.7	11.5#
61	0.2	7.5	11.3#
70	2.5	6.9	10.3#

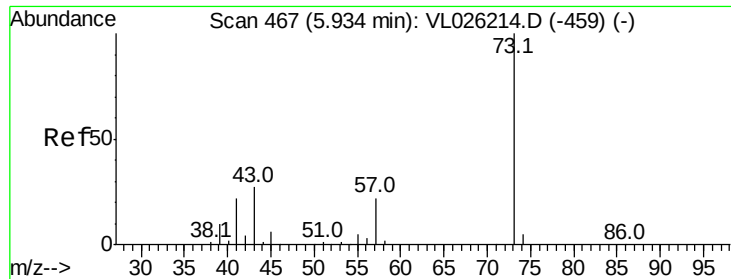


#26
Hexane
Concen: 407.37 ppbv
RT: 6.74 min Scan# 600
Delta R.T. 0.10 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion: 57 Resp:28920792

Ion	Ratio	Lower	Upper
57	100		
41	89.3	68.1	102.1
43	78.8	163.4	245.2#
56	71.7	42.2	63.4#





#28

Methyl tert-Butyl Ether

Concen: 0.04 ppbv

RT: 5.98 min Scan# 475

Delta R.T. 0.05 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

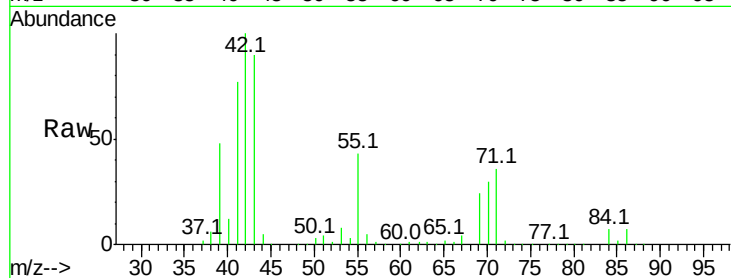
SS-3

Tot Ion: 73 Resp: 5190

Ion Ratio Lower Upper

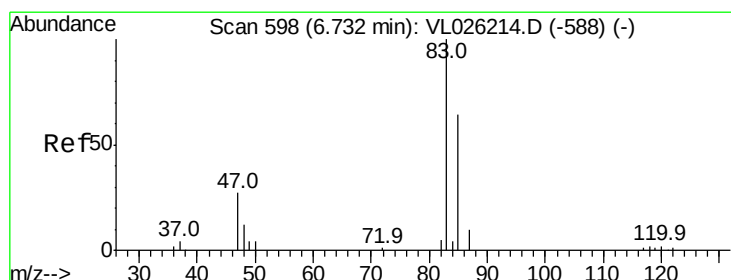
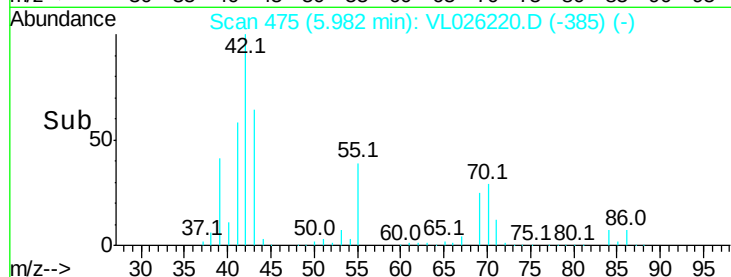
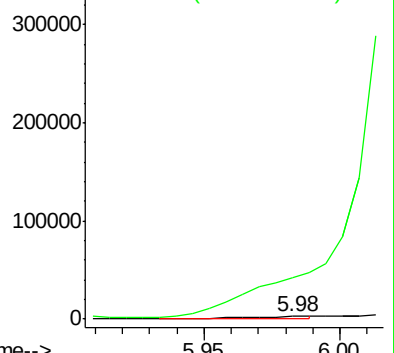
73 100

57 0.0 17.4 26.0#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.14 ppbv

RT: 6.98 min Scan# 638

Delta R.T. 0.24 min

Lab File: VL026220.D

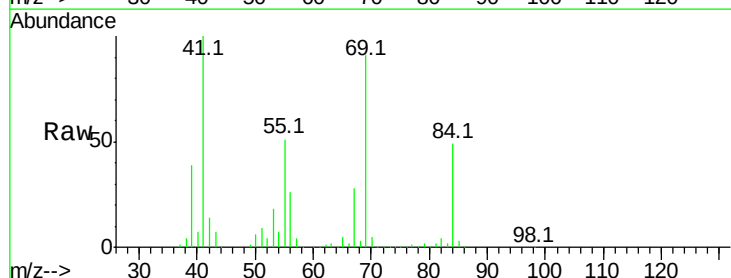
Acq: 21 Oct 2015 00:24

Tgt Ion: 83 Resp: 14050

Ion Ratio Lower Upper

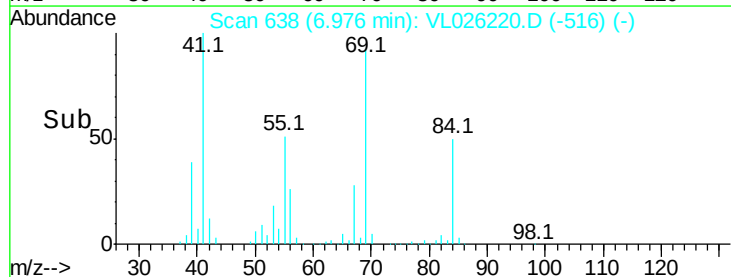
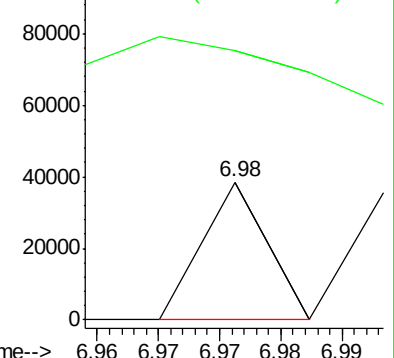
83 100

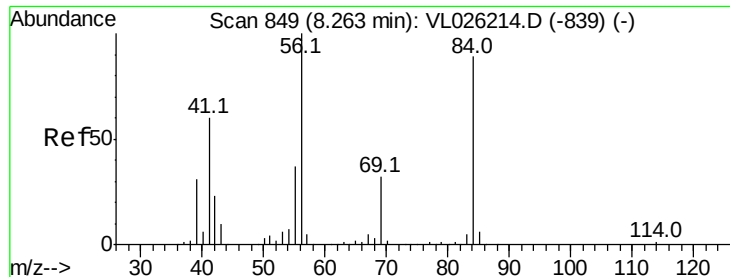
85 15.4 51.5 77.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

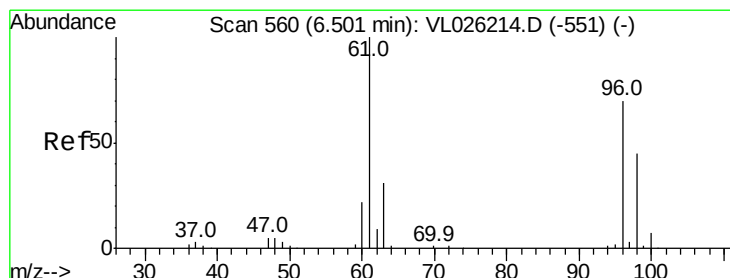
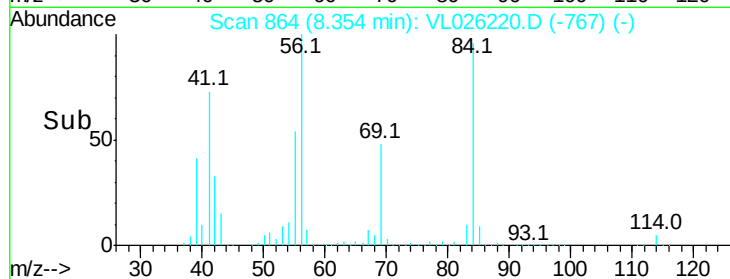
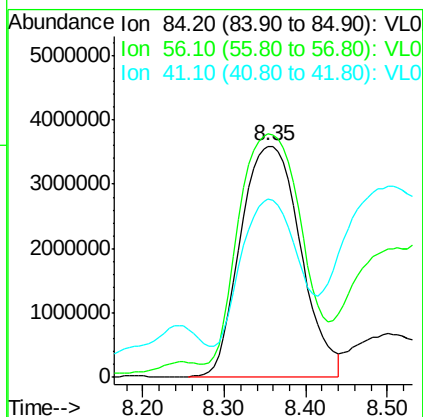
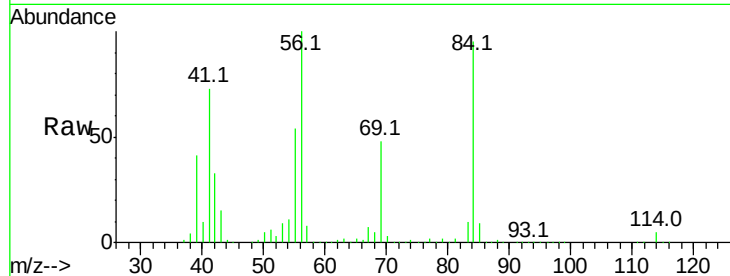




#30
Cvclohexane
Concen: 256.98 ppbv
RT: 8.35 min Scan# 864
Delta R.T. 0.09 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

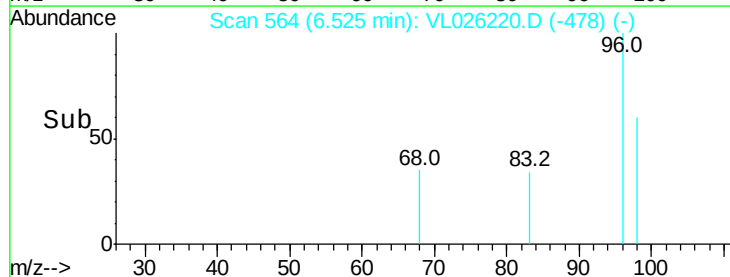
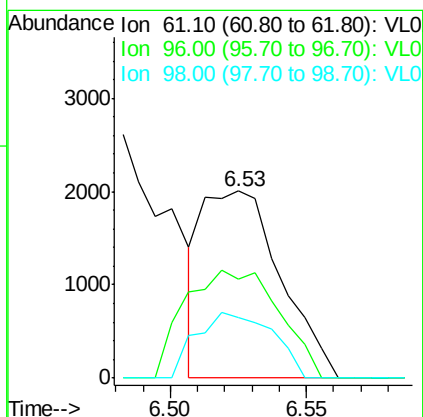
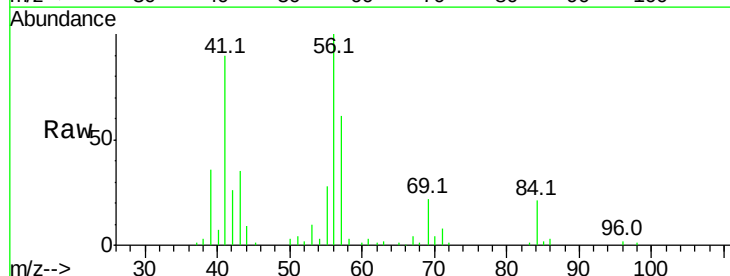
Instrument :
MSVOA_L
ClientSampled :
SS-3

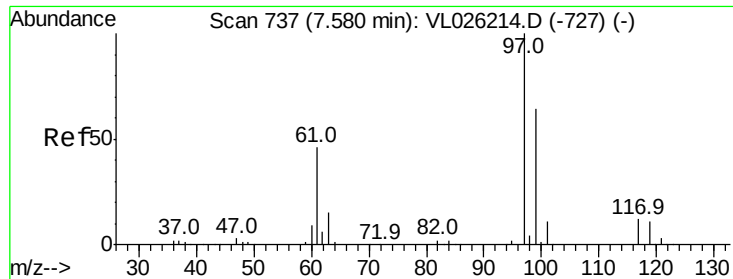
Tot Ion: 84 Resp:18246628
Ion Ratio Lower Upper
84 100
56 116.2 95.9 143.9
41 64.8 54.8 82.2



#31
cis-1,2-Dichloroethene
Concen: 0.06 ppbv
RT: 6.53 min Scan# 564
Delta R.T. 0.02 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion: 61 Resp: 3999
Ion Ratio Lower Upper
61 100
96 53.1 56.0 84.0#
98 32.1 36.1 54.1#





#32

1,1,1-Trichloroethane

Concen: 0.22 ppbv

RT: 7.88 min Scan# 786

Delta R.T. 0.30 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

SS-3

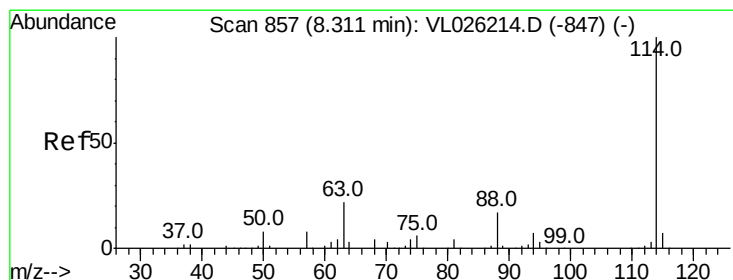
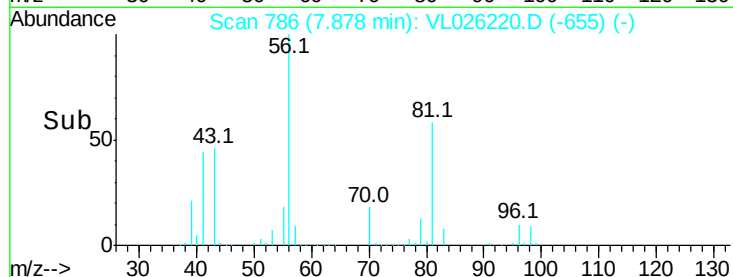
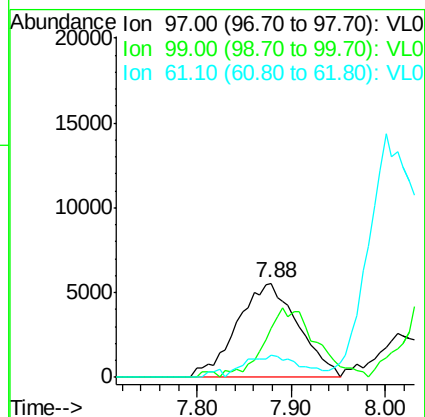
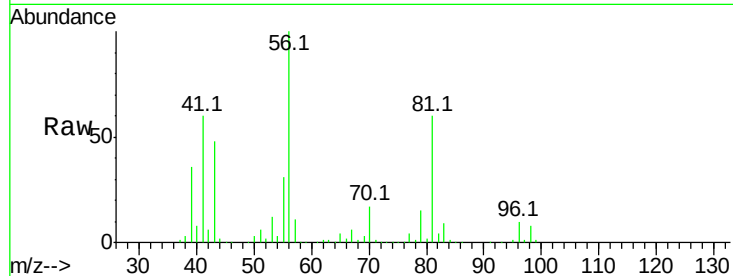
Tot Ion: 97 Resp: 25094

Ion Ratio Lower Upper

97 100

99 63.2 51.4 77.0

61 22.5 36.2 54.4#



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.37 min Scan# 866

Delta R.T. 0.05 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

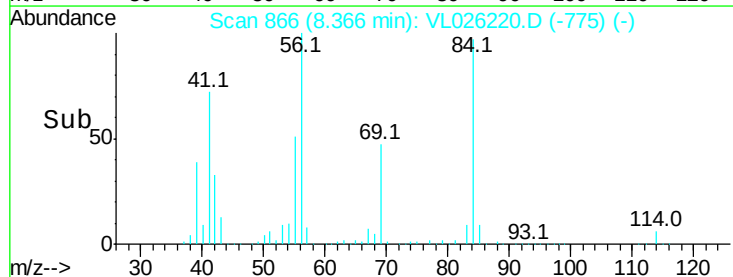
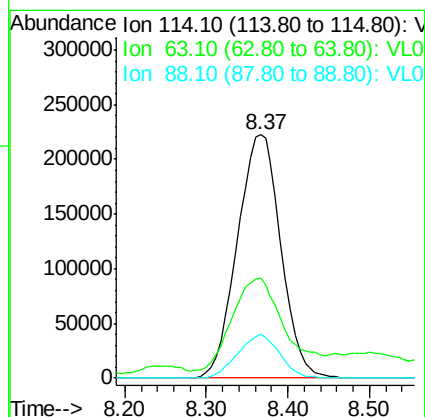
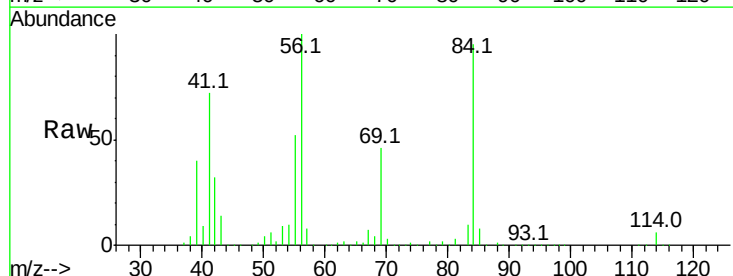
Tgt Ion: 114 Resp: 822776

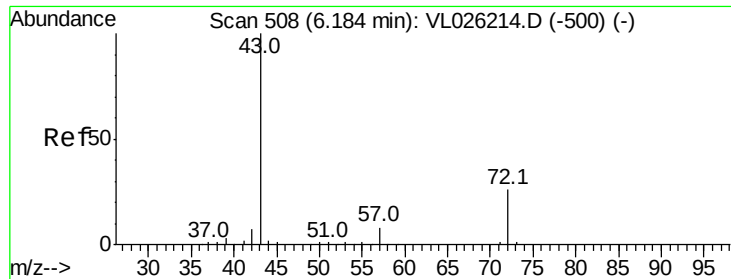
Ion Ratio Lower Upper

114 100

63 49.2 18.2 27.4#

88 17.4 13.5 20.3





#34

2-Butanone

Concen: 258.03 ppbv

RT: 6.37 min Scan# 538

Delta R.T. 0.18 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

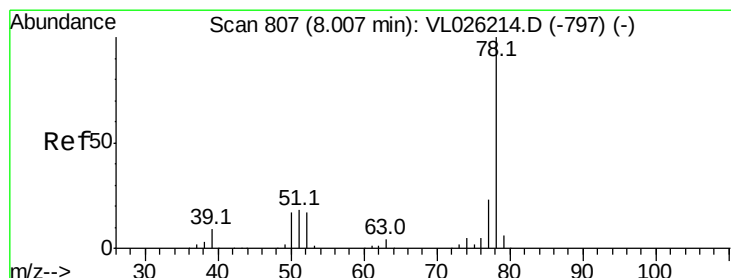
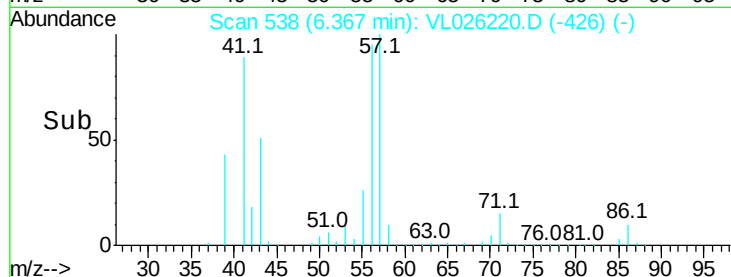
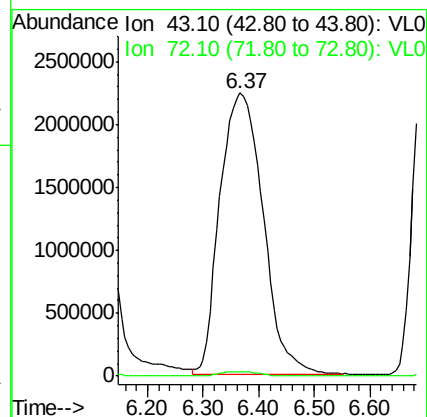
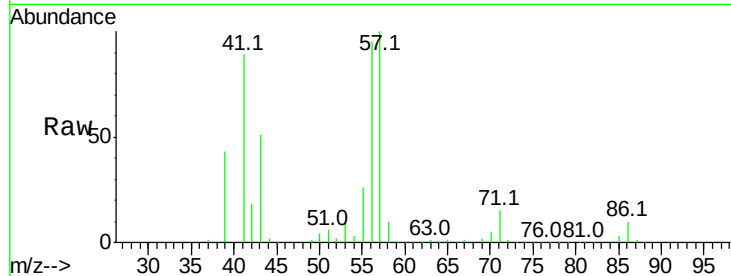
SS-3

Tot Ion: 43 Resp:11999618

Ion Ratio Lower Upper

43 100

72 1.5 20.1 30.1#



#36

Benzene

Concen: 46.95 ppbv

RT: 8.06 min Scan# 816

Delta R.T. 0.05 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

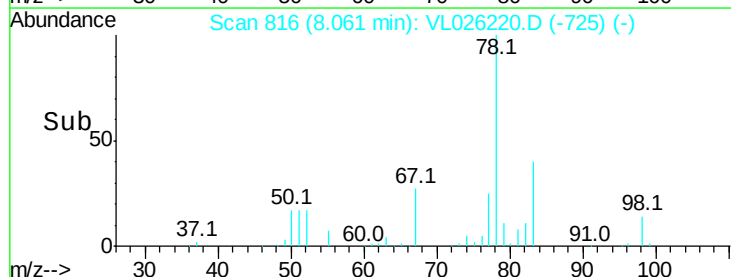
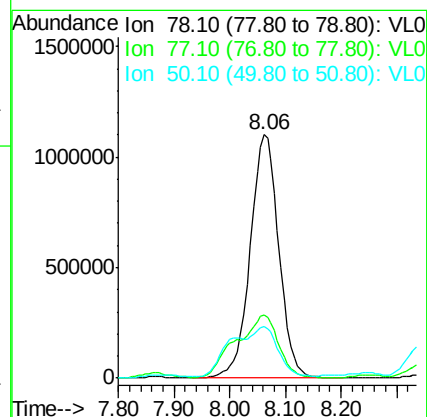
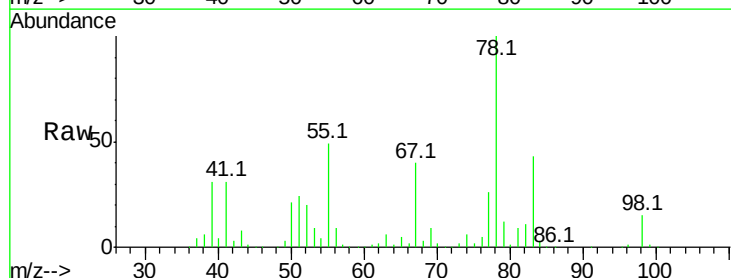
Tgt Ion: 78 Resp: 3934166

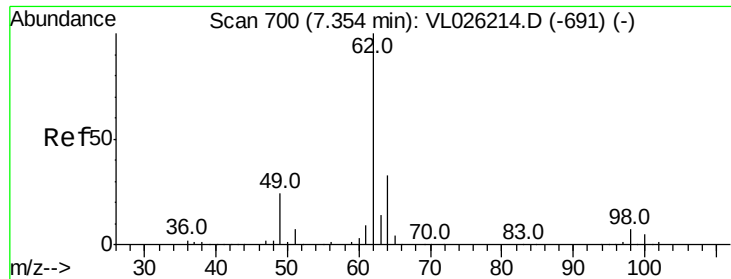
Ion Ratio Lower Upper

78 100

77 25.5 18.1 27.1

50 20.6 13.8 20.8

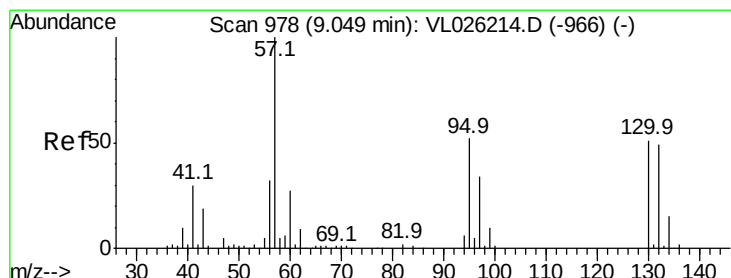
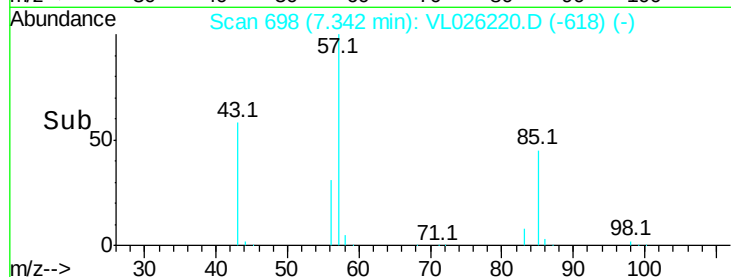
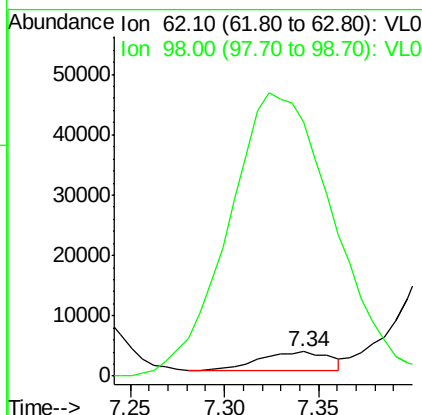
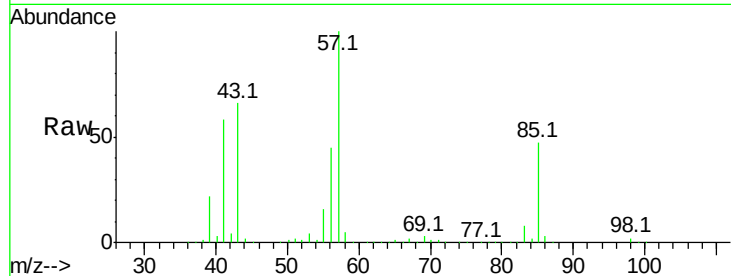




#37
 1,2-Dichloroethane
 Concen: 0.19 ppbv
 RT: 7.34 min Scan# 698
 Delta R.T. -0.01 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

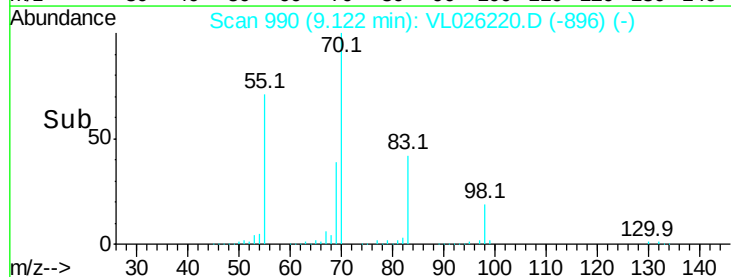
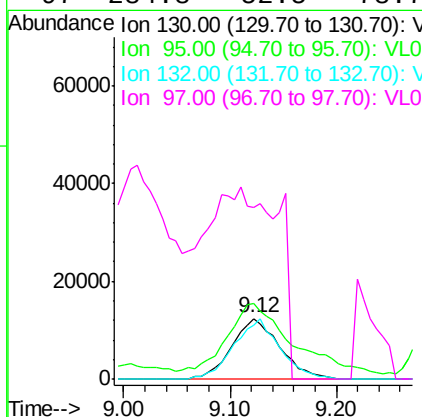
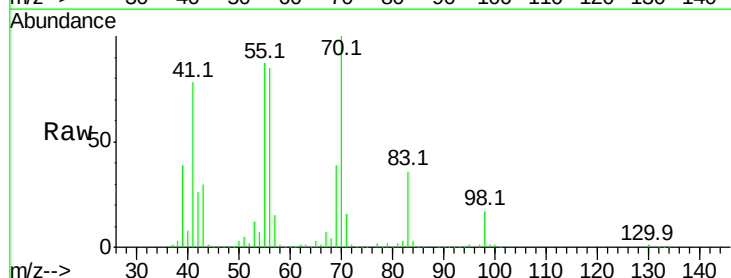
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3

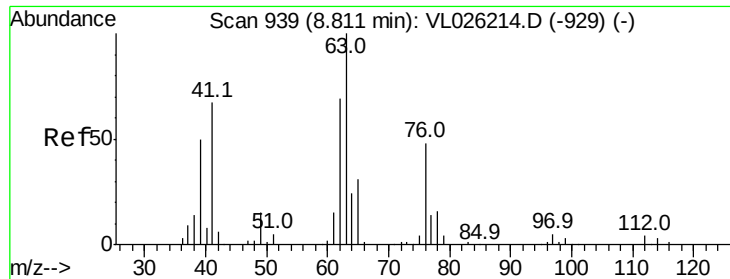
Tot Ion: 62 Resp: 8105
 Ion Ratio Lower Upper
 62 100
 98 2243.0 6.1 9.1#



#38
 Trichloroethene
 Concen: 0.95 ppbv
 RT: 9.12 min Scan# 990
 Delta R.T. 0.07 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

Tgt Ion:130 Resp: 38687
 Ion Ratio Lower Upper
 130 100
 95 107.8 81.0 121.4
 132 89.1 76.5 114.7
 97 284.8 52.5 78.7#

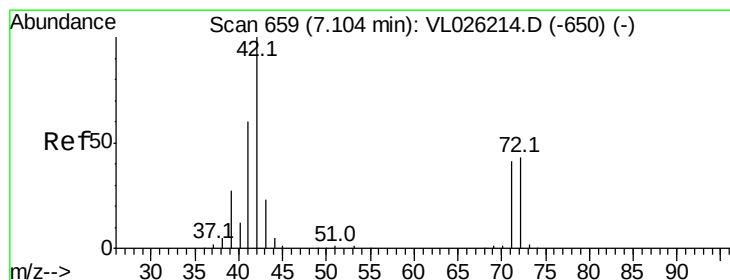
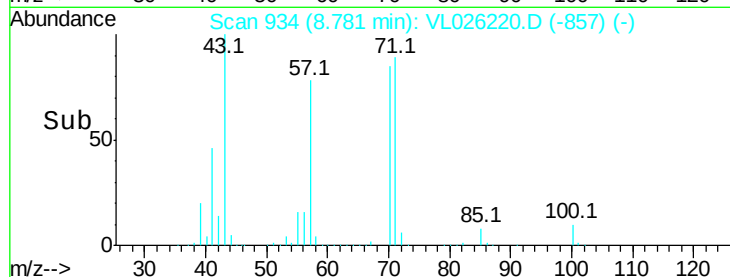
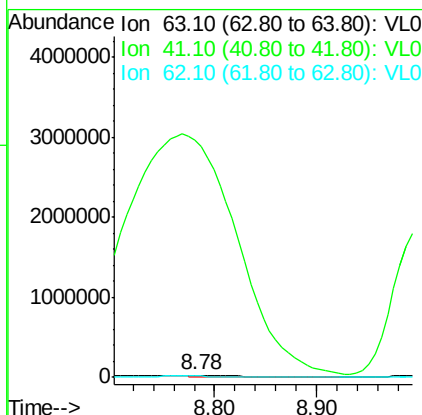
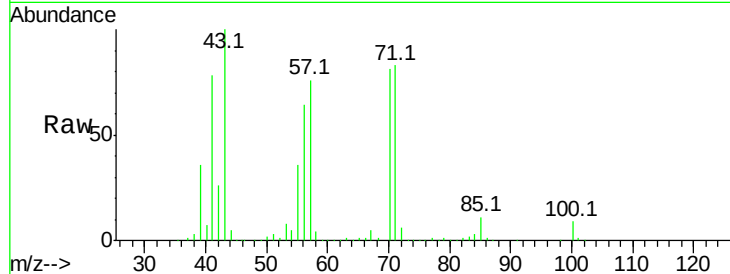




#39
 1,2-Dichloropropane
 Concen: 2.97 ppbv
 RT: 8.78 min Scan# 934
 Delta R.T. -0.03 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

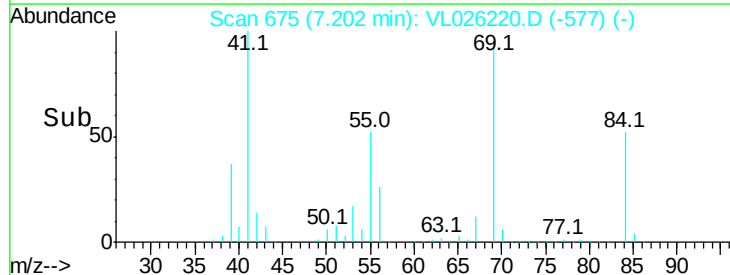
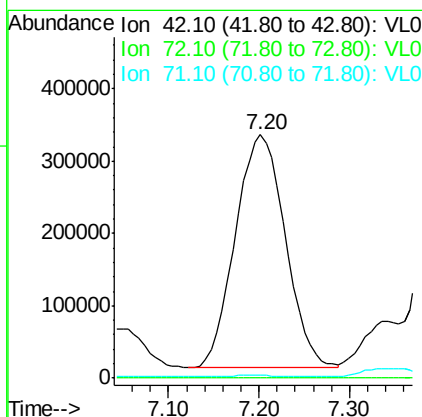
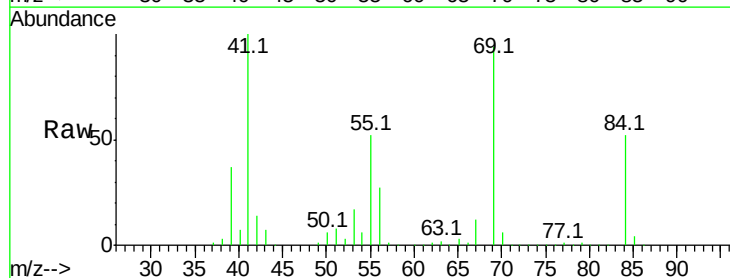
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3

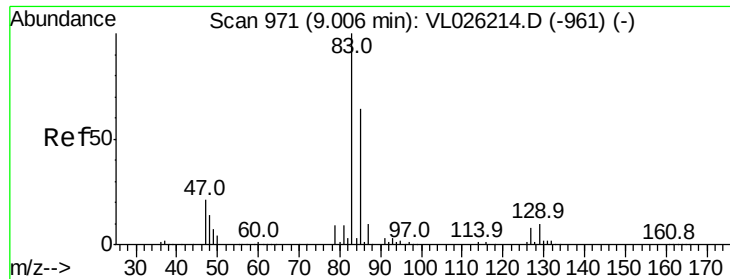
Tot Ion: 63 Resp: 87422
 Ion Ratio Lower Upper
 63 100
 41 10474.8 53.2 79.8#
 62 48.2 55.4 83.2#



#41
 Tetrahydrofuran
 Concen: 45.62 ppbv
 RT: 7.20 min Scan# 675
 Delta R.T. 0.10 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

Tgt Ion: 42 Resp: 1228082
 Ion Ratio Lower Upper
 42 100
 72 0.0 34.3 51.5#
 71 0.0 32.1 48.1#





#42

Bromodichloromethane

Concen: 86.55 ppbv

RT: 9.10 min Scan# 986

Delta R.T. 0.09 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

SS-3

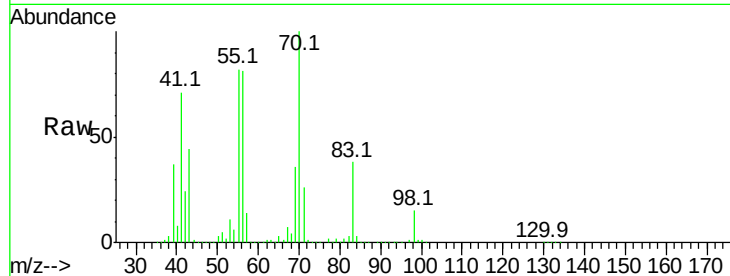
Tot Ion: 83 Resp: 5361344

Ion Ratio Lower Upper

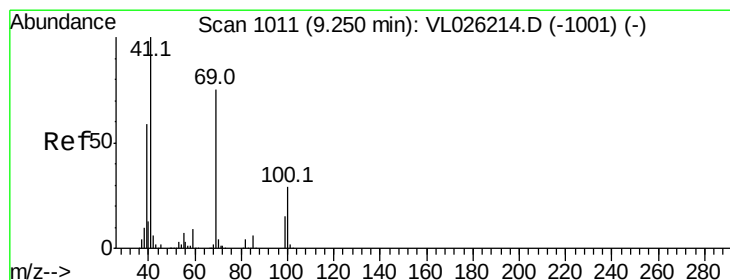
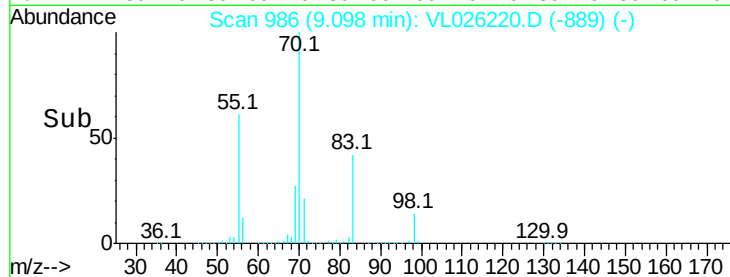
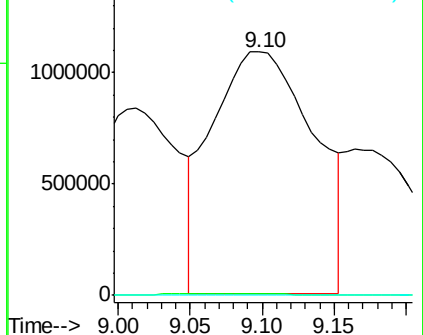
83 100

85 1.0 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: 105.73 ppbv

RT: 9.29 min Scan# 1018

Delta R.T. 0.04 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

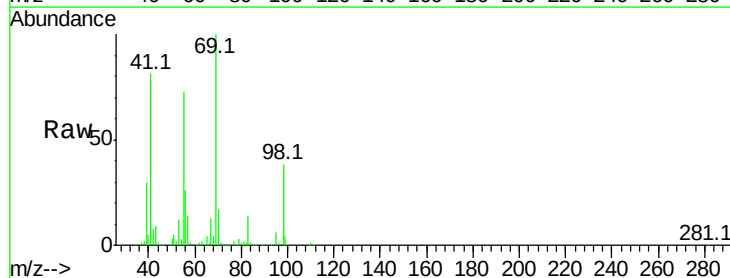
Tgt Ion: 69 Resp: 3224799

Ion Ratio Lower Upper

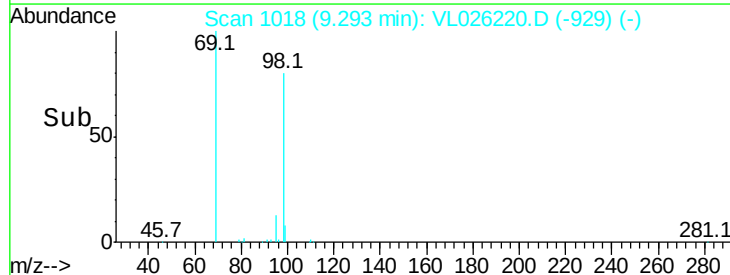
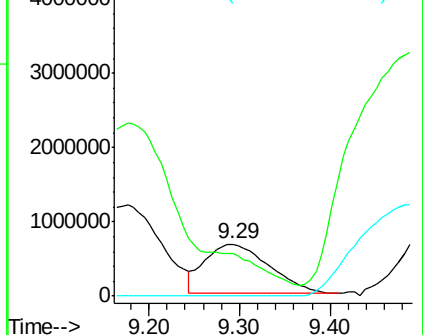
69 100

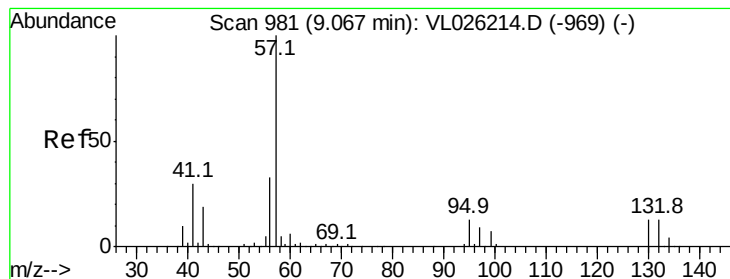
41 0.0 108.4 162.6#

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: 9.83 ppbv

RT: 9.09 min Scan# 985

Delta R.T. 0.02 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

SS-3

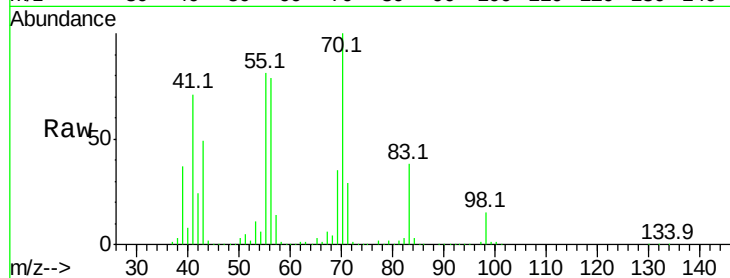
Tot Ion: 57 Resp: 1333838

Ion Ratio Lower Upper

57 100

41 396.2 23.7 35.5#

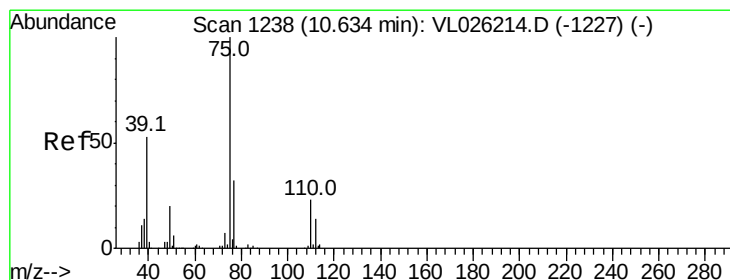
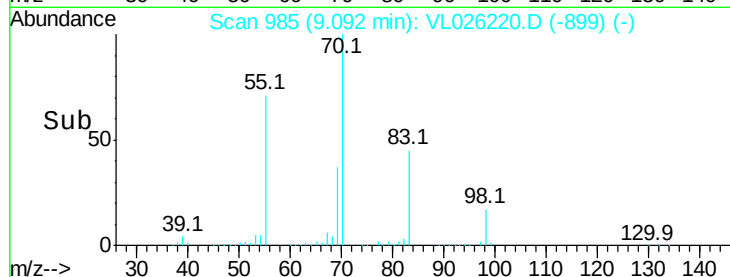
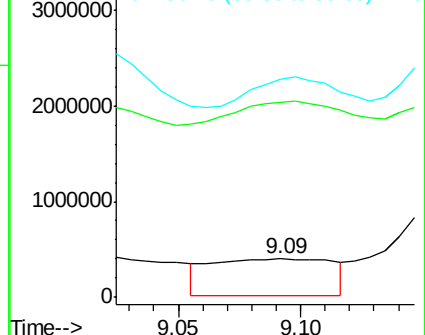
56 613.6 25.9 38.9#



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



#45

t-1,3-Dichloropropene

Concen: 0.05 ppbv

RT: 10.70 min Scan# 1248

Delta R.T. 0.06 min

Lab File: VL026220.D

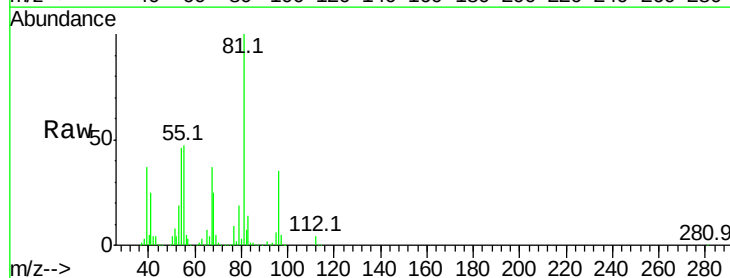
Acq: 21 Oct 2015 00:24

Tgt Ion: 75 Resp: 2581

Ion Ratio Lower Upper

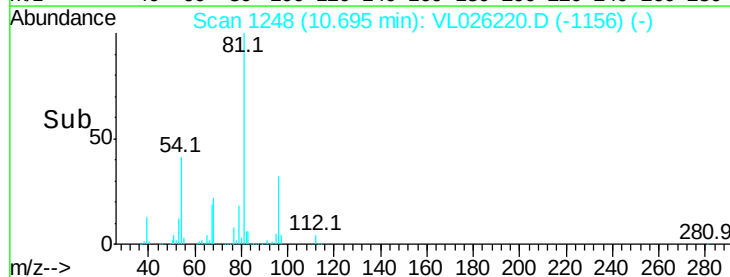
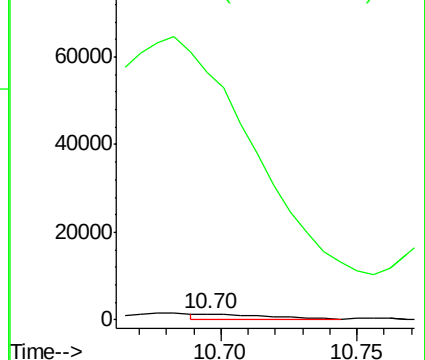
75 100

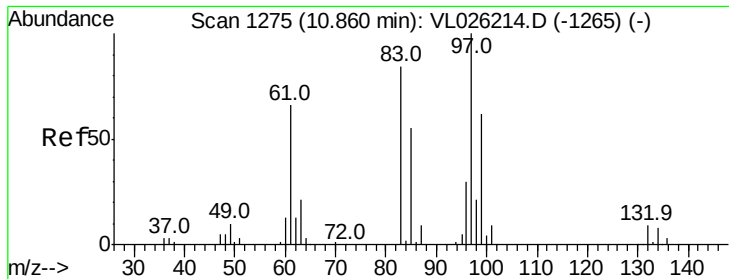
77 4141.5 25.2 37.8#



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

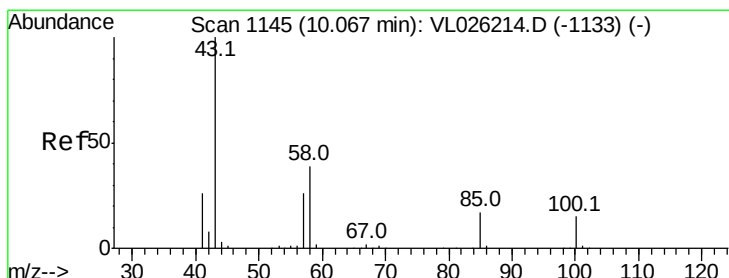
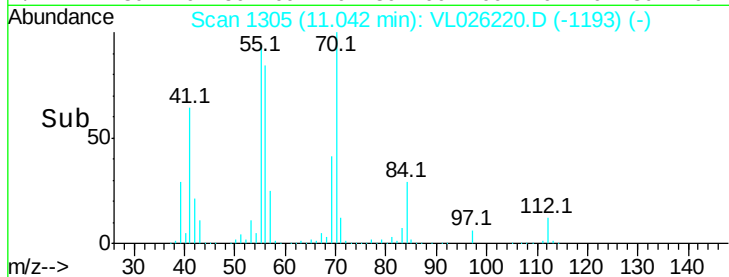
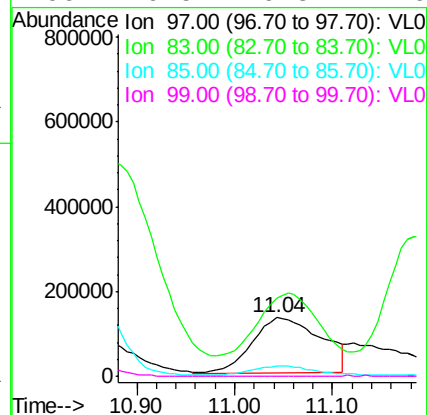
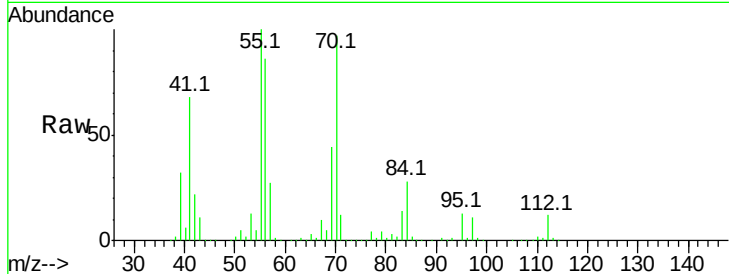




#47
 1,1,2-Trichloroethane
 Concen: 17.53 ppbv
 RT: 11.04 min Scan# 1305
 Delta R.T. 0.18 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

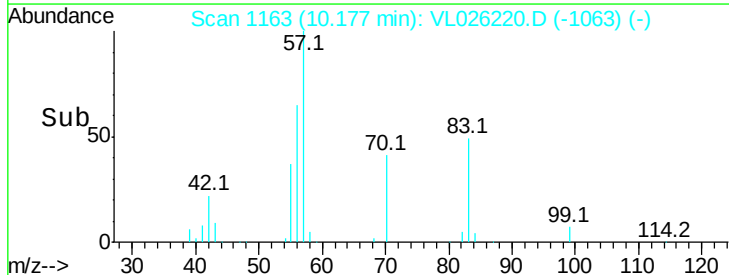
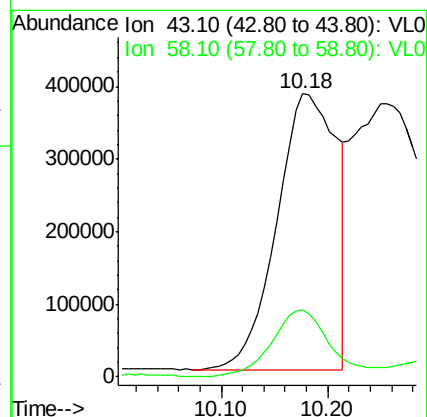
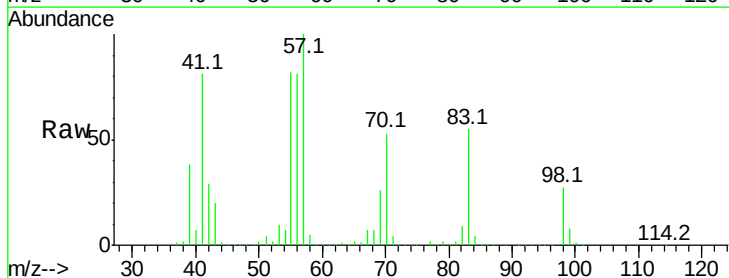
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3

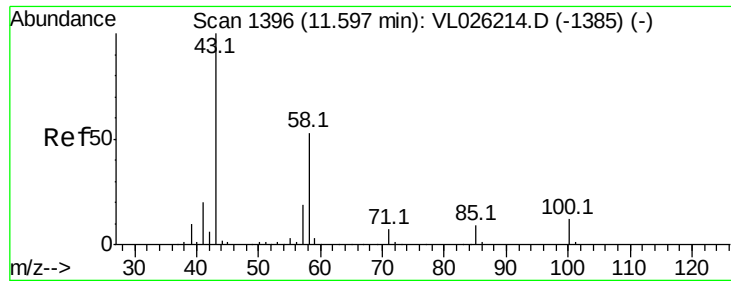
Tot Ion: 97 Resp: 649239
 Ion Ratio Lower Upper
 97 100
 83 93.5 67.4 101.2
 85 16.7 43.8 65.6#
 99 0.5 49.8 74.6#



#50
 4-Methyl-2-Pentanone
 Concen: 23.58 ppbv
 RT: 10.18 min Scan# 1163
 Delta R.T. 0.11 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

Tgt Ion: 43 Resp: 1480190
 Ion Ratio Lower Upper
 43 100
 58 23.4 31.1 46.7#

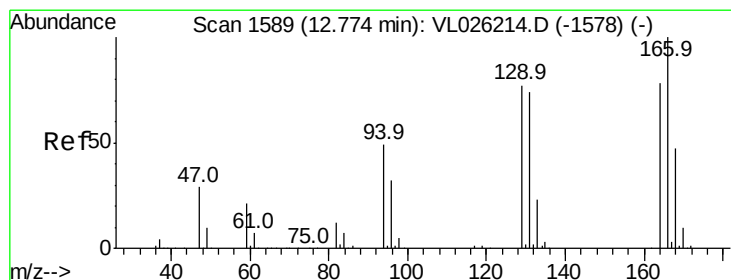
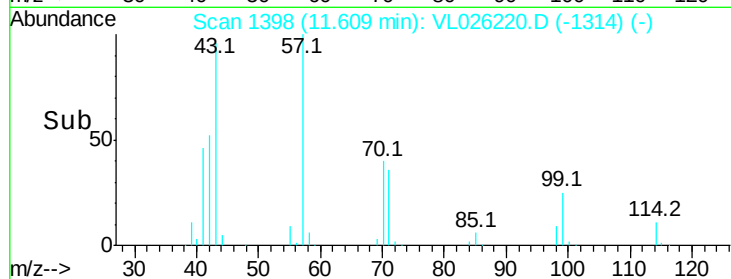
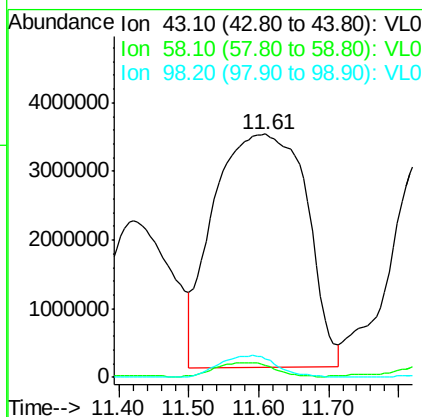
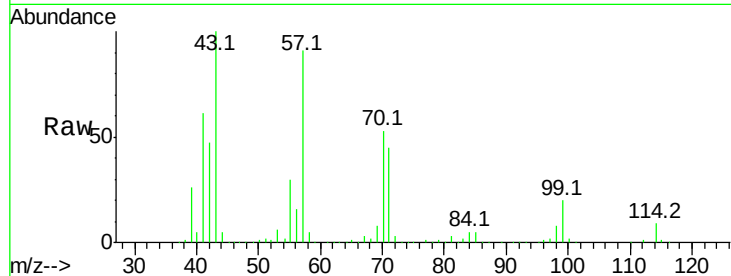




#51
2-Hexanone
Concen: 533.41 ppbv
RT: 11.61 min Scan# 1398
Delta R.T. 0.01 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

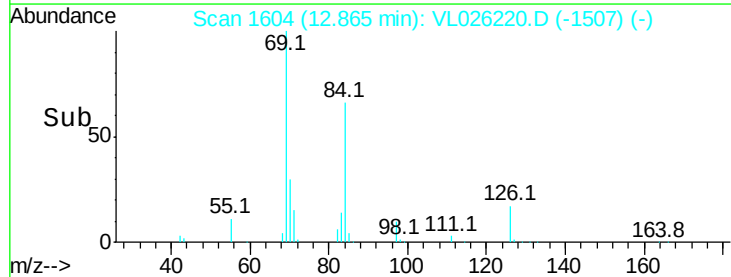
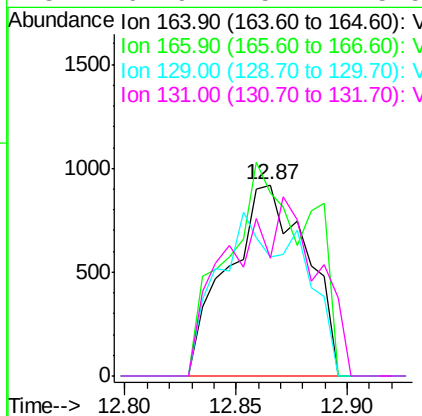
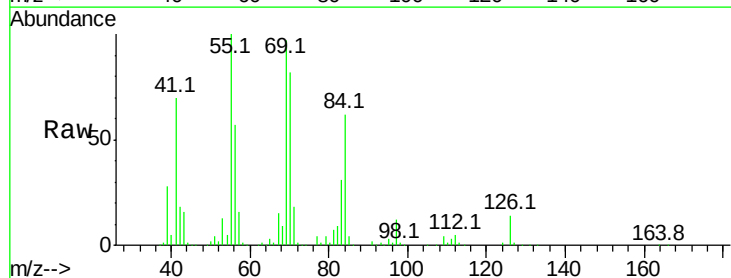
Instrument :
MSVOA_L
ClientSampled :
SS-3

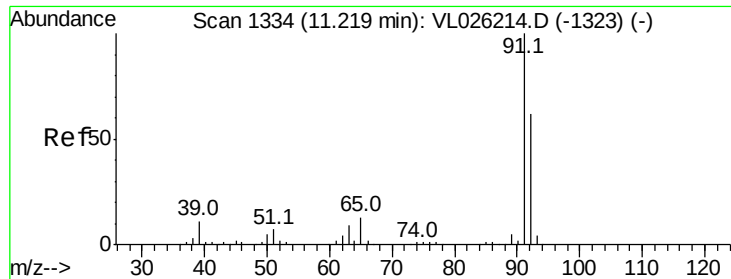
Tot Ion: 43 Resp: 31276910
Ion Ratio Lower Upper
43 100
58 4.1 43.2 64.8#
98 5.8 0.0 0.0#



#52
Tetrachloroethene
Concen: 0.05 ppbv
RT: 12.87 min Scan# 1604
Delta R.T. 0.09 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion: 164 Resp: 2250
Ion Ratio Lower Upper
164 100
166 95.4 102.3 153.5#
129 62.1 78.2 117.4#
131 61.9 75.7 113.5#





#53

Toluene

Concen: 10.78 ppbv

RT: 11.30 min Scan# 1347

Delta R.T. 0.08 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampled :

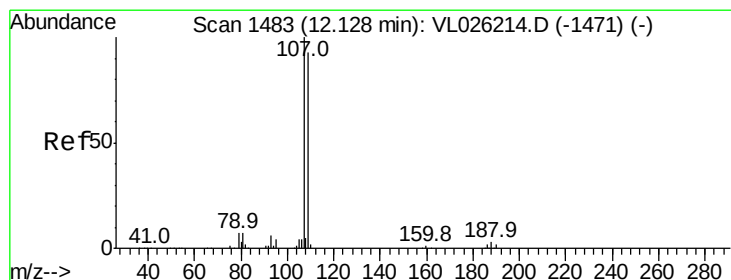
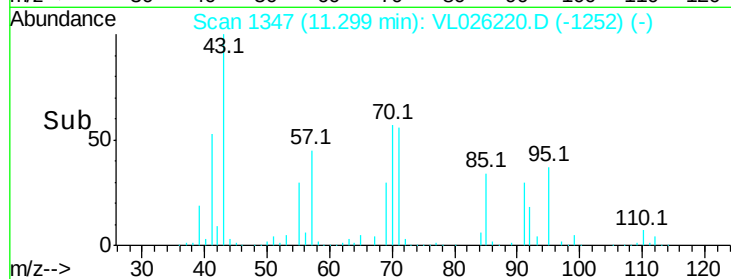
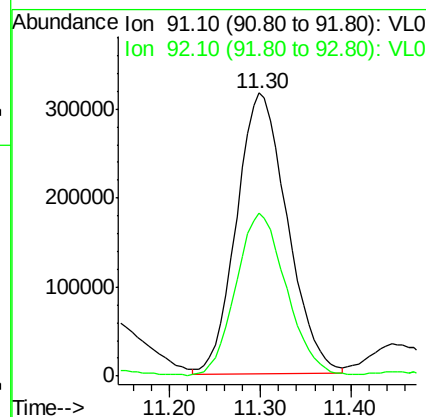
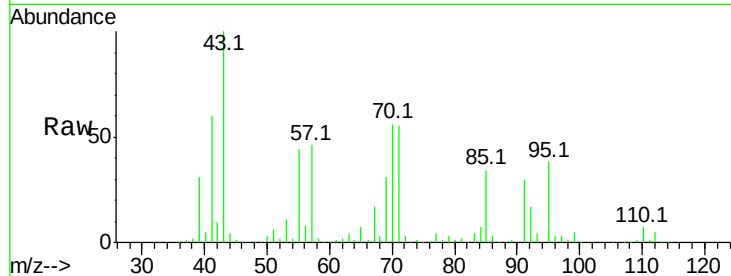
SS-3

Tot Ion: 91 Resp: 1228479

Ion Ratio Lower Upper

91 100

92 57.3 49.2 73.8



#54

1,2-Dibromoethane

Concen: 0.11 ppbv

RT: 12.25 min Scan# 1503

Delta R.T. 0.12 min

Lab File: VL026220.D

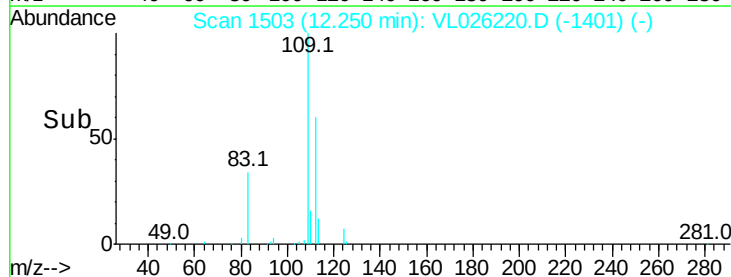
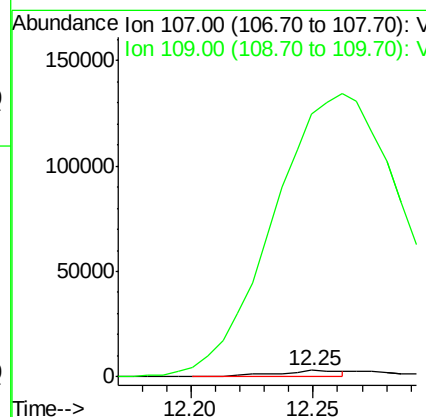
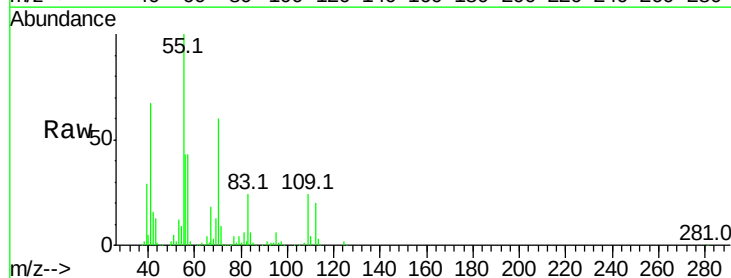
Acq: 21 Oct 2015 00:24

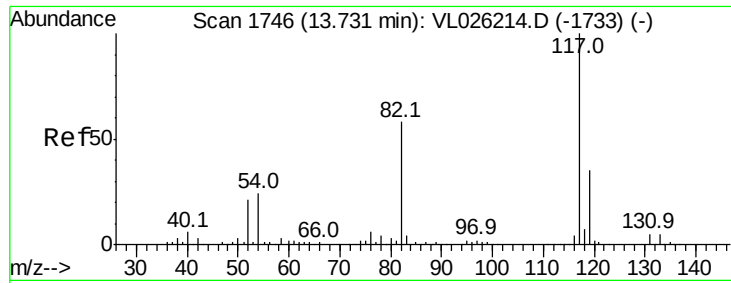
Tgt Ion:107 Resp: 6270

Ion Ratio Lower Upper

107 100

109 3881.1 74.7 112.1#

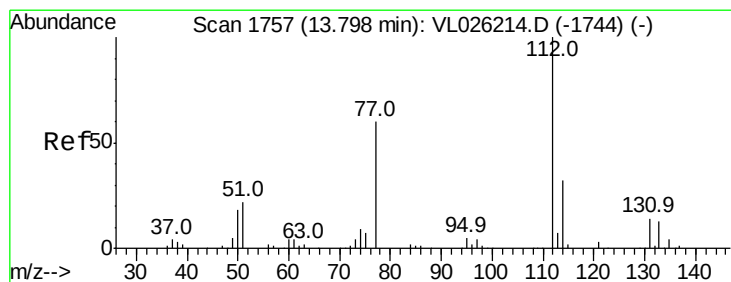
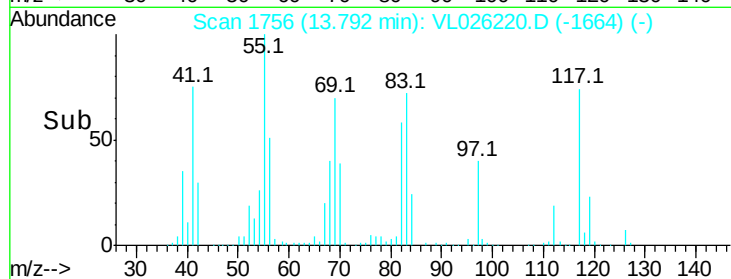
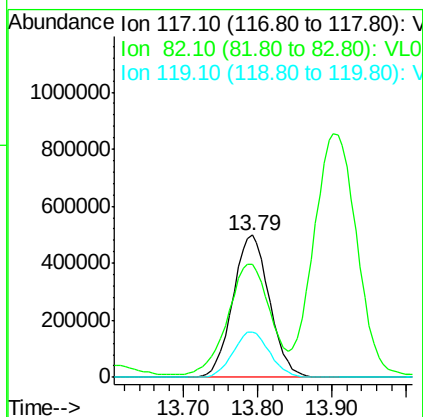
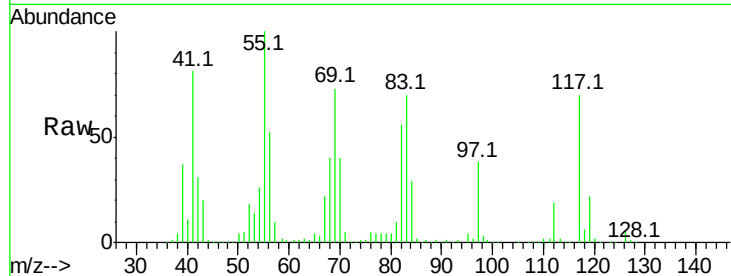




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1756
Delta R.T. 0.06 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

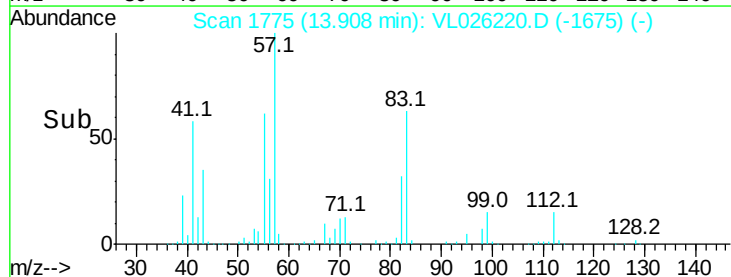
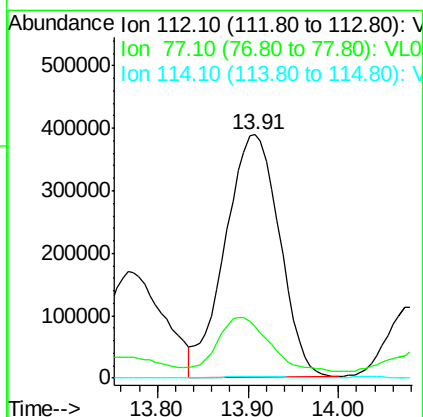
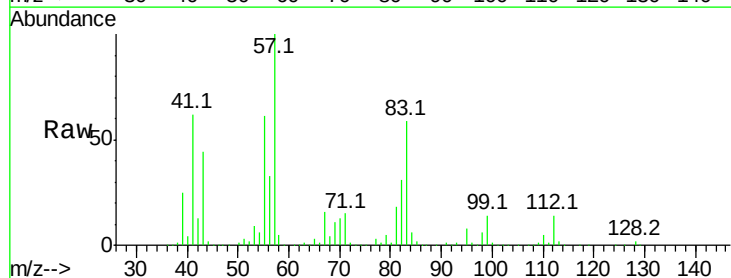
Instrument :
MSVOA_L
ClientSampleId :
SS-3

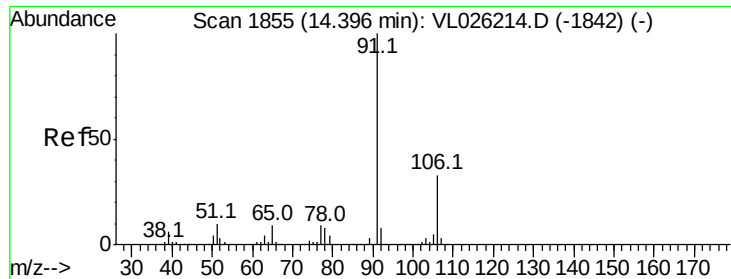
Tot Ion:117 Resp: 1712926
Ion Ratio Lower Upper
117 100
82 91.5 45.8 68.8#
119 32.2 45.0 67.4#



#57
Chlorobenzene
Concen: 9.82 ppbv
RT: 13.91 min Scan# 1775
Delta R.T. 0.11 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion:112 Resp: 1609031
Ion Ratio Lower Upper
112 100
77 18.6 48.4 72.6#
114 0.6 29.0 35.4#





#58

Ethyl Benzene

Concen: 7.97 ppbv

RT: 14.46 min Scan# 1866

Delta R.T. 0.07 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

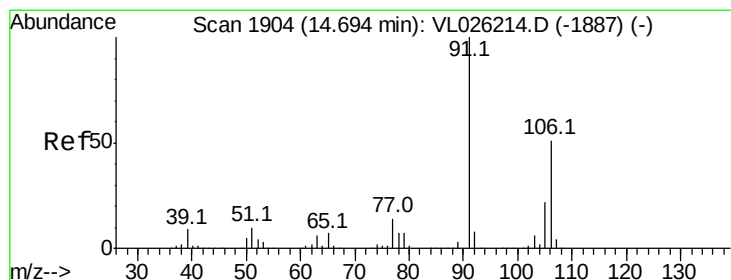
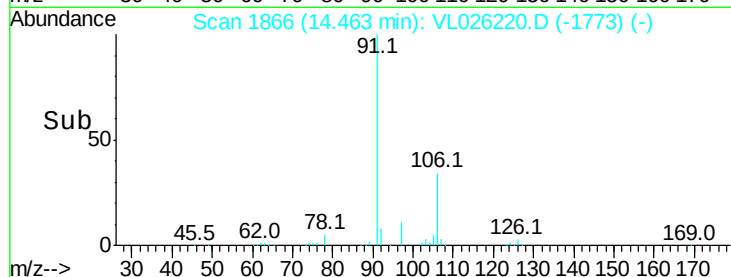
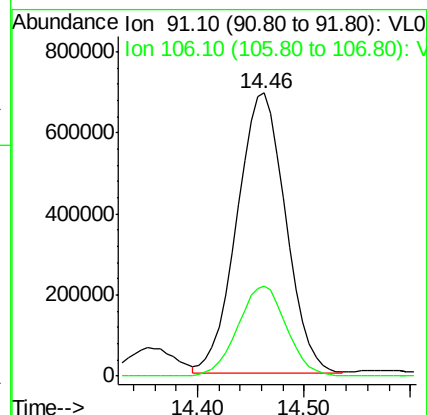
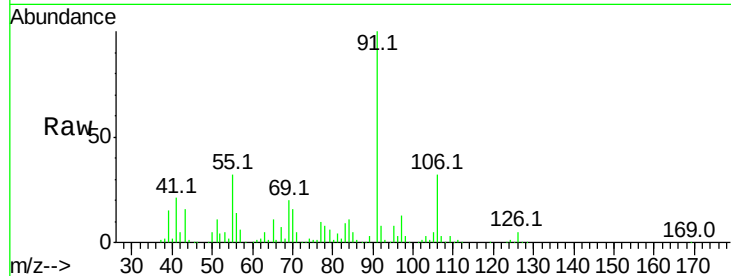
SS-3

Tot Ion: 91 Resp: 2212609

Ion Ratio Lower Upper

91 100

106 32.1 26.1 39.1



#59

m/p-Xylene

Concen: 8.89 ppbv

RT: 14.77 min Scan# 1916

Delta R.T. 0.07 min

Lab File: VL026220.D

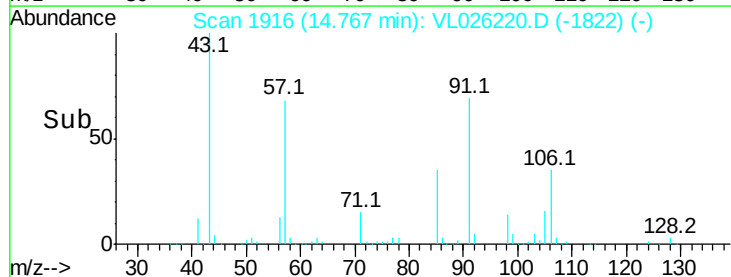
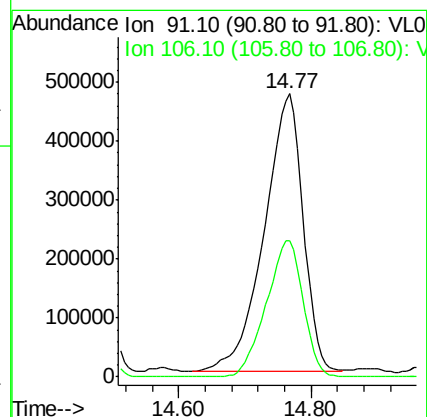
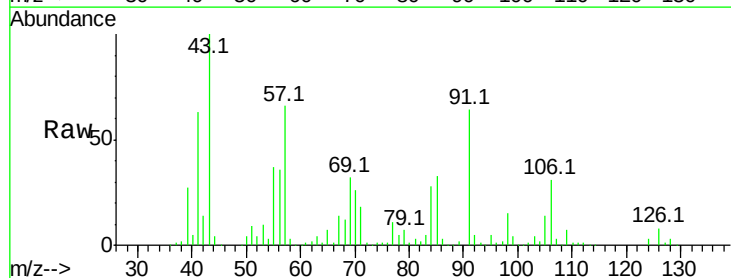
Acq: 21 Oct 2015 00:24

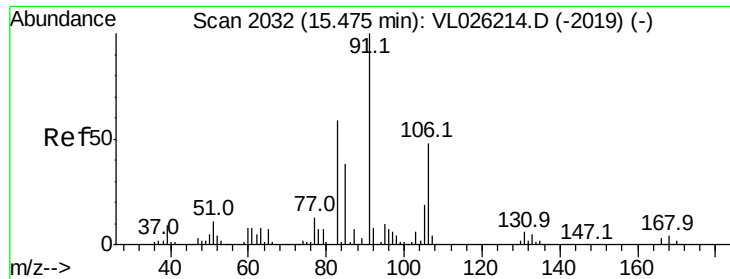
Tgt Ion: 91 Resp: 1932219

Ion Ratio Lower Upper

91 100

106 46.4 40.6 61.0

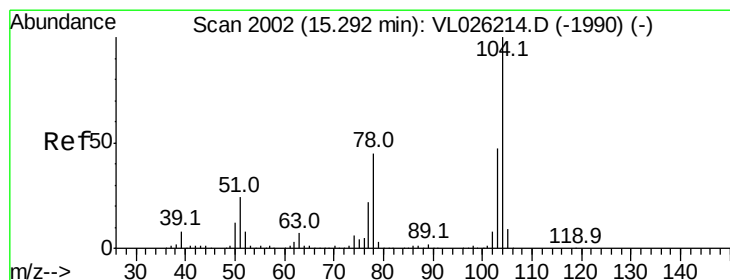
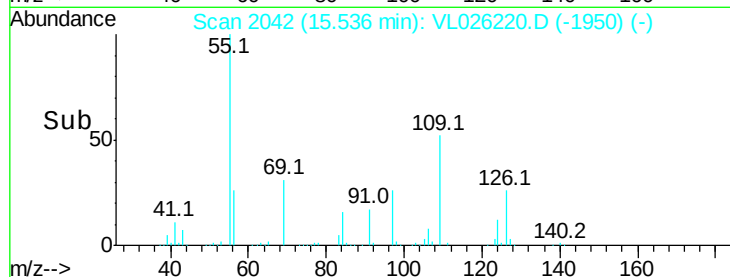
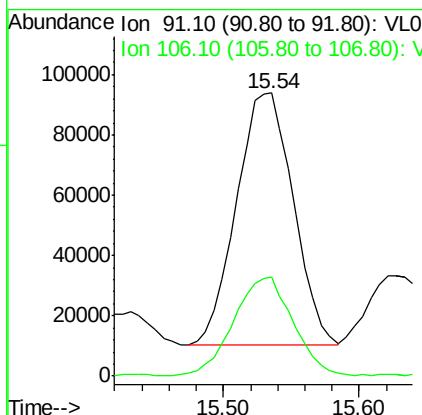
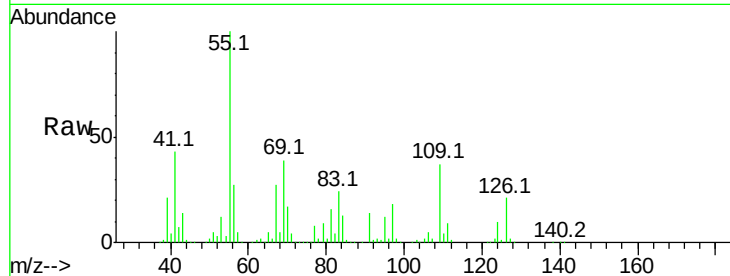




#60
o-Xylene
Concen: 1.07 ppbv
RT: 15.54 min Scan# 2042
Delta R.T. 0.06 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

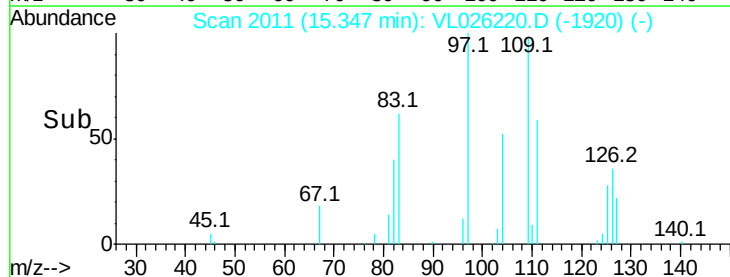
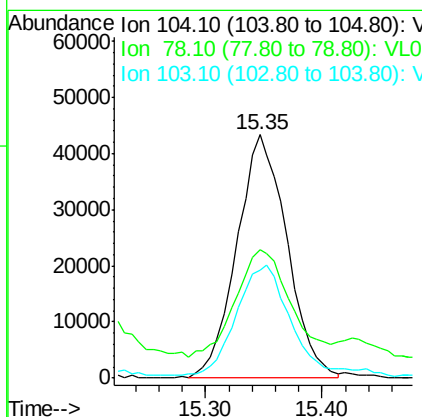
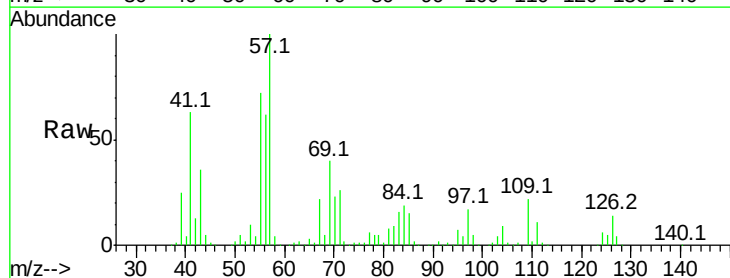
Instrument :
MSVOA_L
ClientSampleID :
SS-3

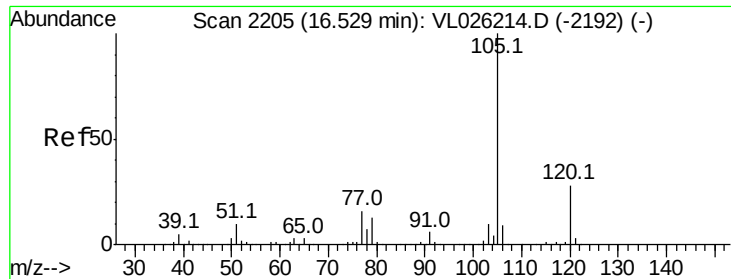
Tot Ion: 91 Resp: 243302
Ion Ratio Lower Upper
91 100
106 42.0 23.8 71.5



#61
Styrene
Concen: 1.27 ppbv
RT: 15.35 min Scan# 2011
Delta R.T. 0.05 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion: 104 Resp: 130438
Ion Ratio Lower Upper
104 100
78 51.2 35.3 52.9
103 50.8 37.0 55.4





#62

Isopropylbenzene

Concen: 2.58 ppbv

RT: 16.57 min Scan# 2211

Delta R.T. 0.04 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

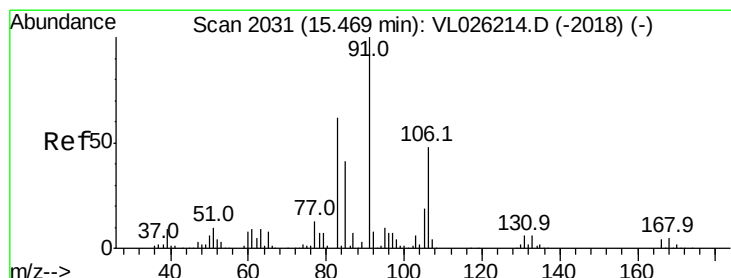
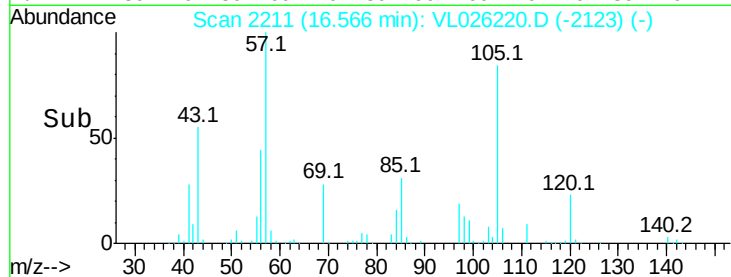
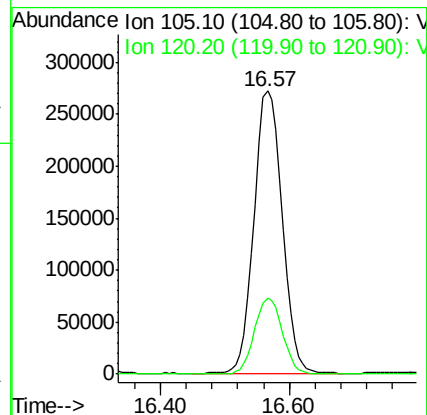
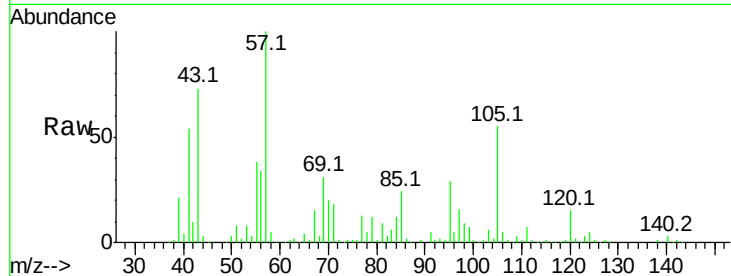
SS-3

Tot Ion:105 Resp: 816719

Ion Ratio Lower Upper

105 100

120 26.6 21.8 32.8



#63

1,1,2,2-Tetrachloroethane

Concen: 4.68 ppbv

RT: 15.52 min Scan# 2040

Delta R.T. 0.05 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

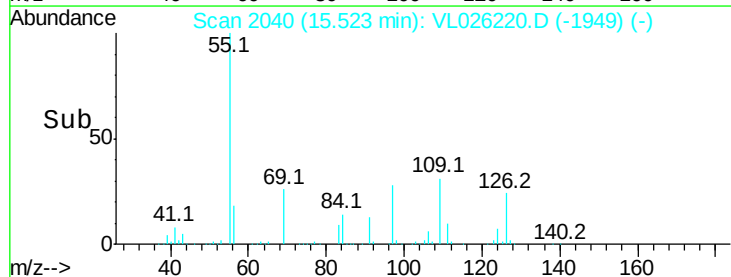
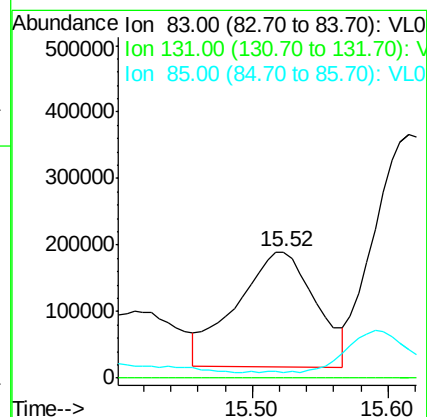
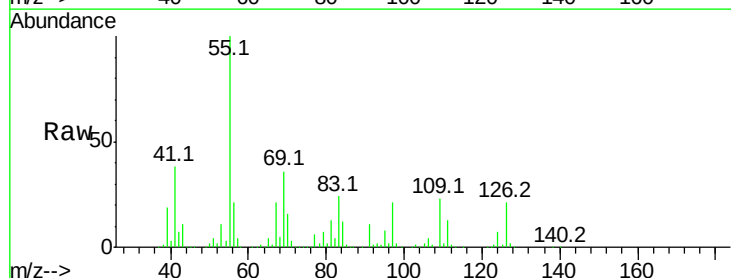
Tgt Ion: 83 Resp: 703493

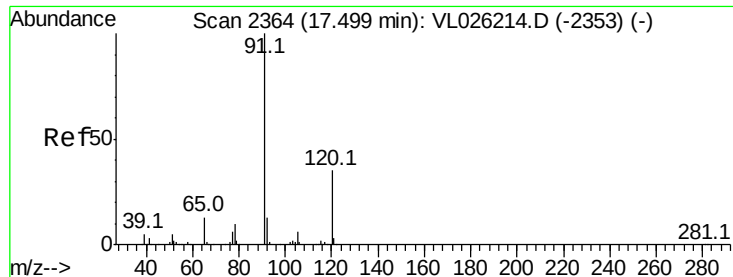
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.3 96.9#





#64

n-propylbenzene

Concen: 2.36 ppbv

RT: 17.54 min Scan# 2370

Delta R.T. 0.04 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

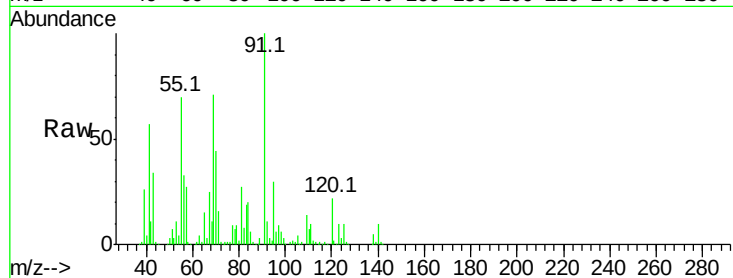
SS-3

Tot Ion:120 Resp: 204847

Ion Ratio Lower Upper

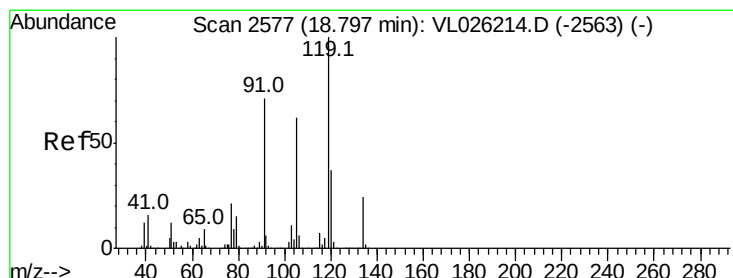
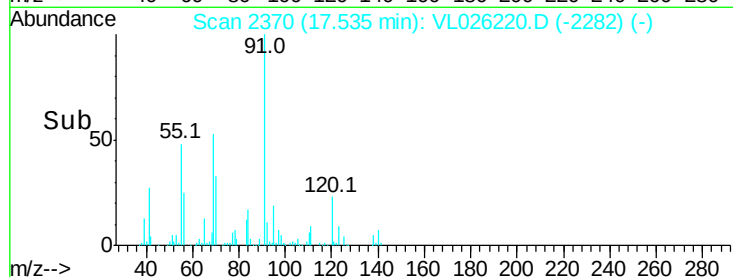
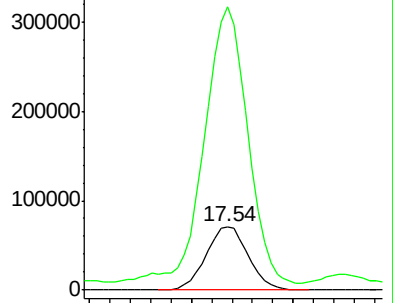
120 100

91 470.8 331.7 497.5



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 1.57 ppbv

RT: 18.83 min Scan# 2583

Delta R.T. 0.04 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

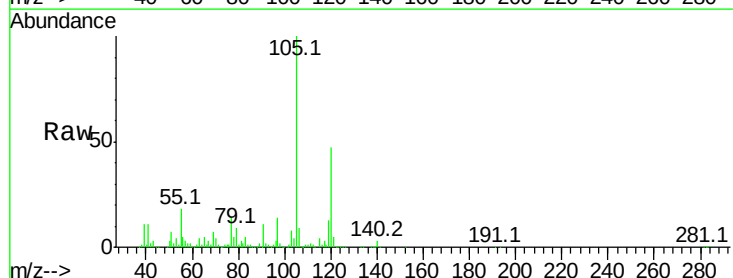
Tgt Ion:119 Resp: 454189

Ion Ratio Lower Upper

119 100

91 85.2 57.5 86.3

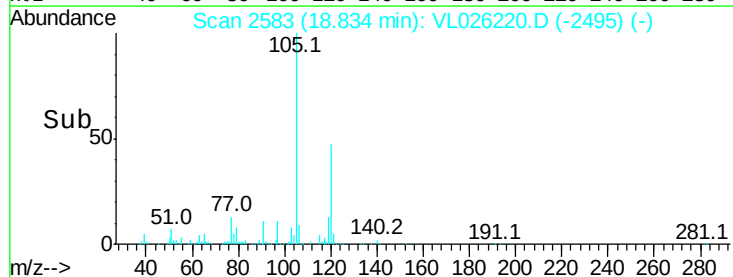
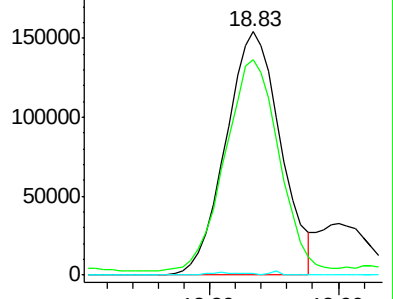
134 1.2 18.1 27.1#

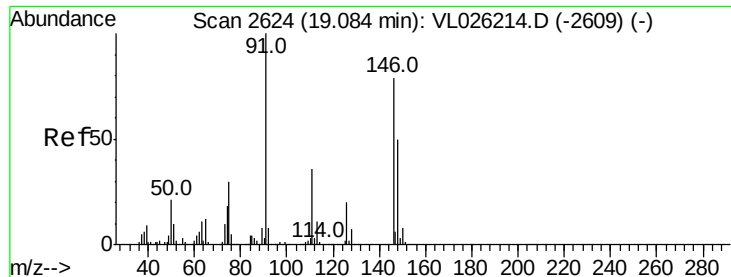


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

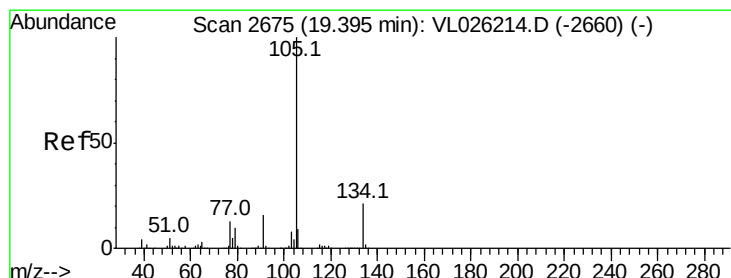
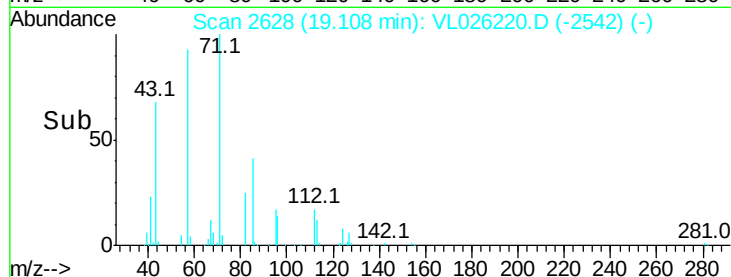
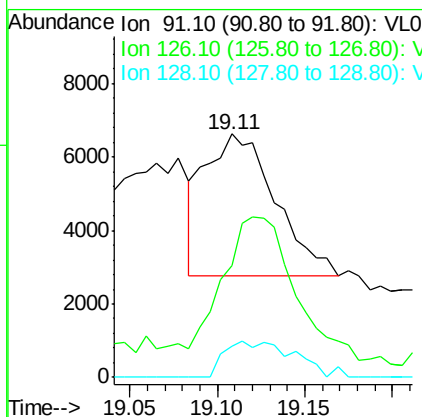
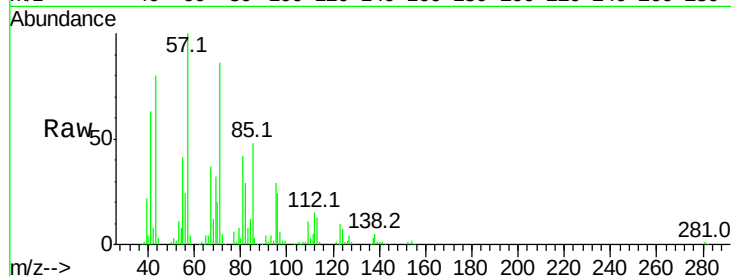




#66
Benzyl Chloride
Concen: 0.09 ppbv
RT: 19.11 min Scan# 2628
Delta R.T. 0.02 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

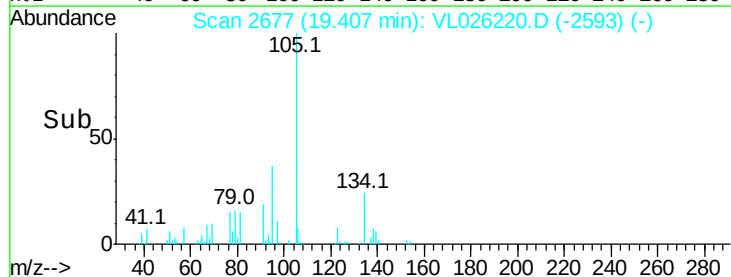
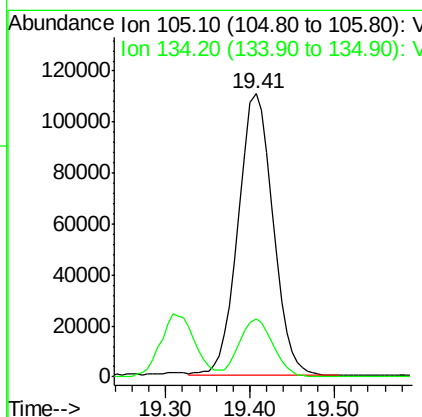
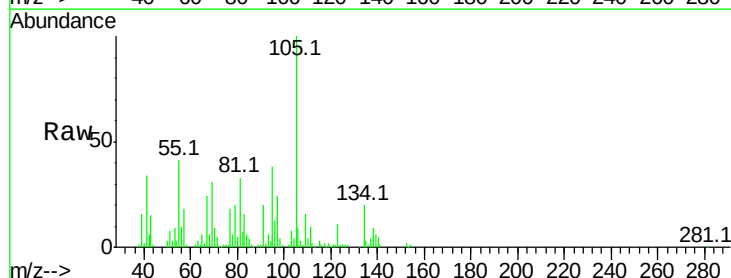
Instrument :
MSVOA_L
ClientSampleId :
SS-3

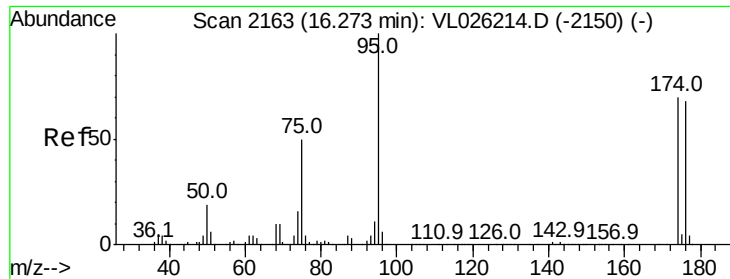
Tot Ion: 91 Resp: 10833
Ion Ratio Lower Upper
91 100
126 147.5 16.2 24.2#
128 25.6 5.1 7.7#



#67
sec-Butylbenzene
Concen: 0.77 ppbv
RT: 19.41 min Scan# 2677
Delta R.T. 0.01 min
Lab File: VL026220.D
Acq: 21 Oct 2015 00:24

Tgt Ion: 105 Resp: 311024
Ion Ratio Lower Upper
105 100
134 20.0 16.2 24.4

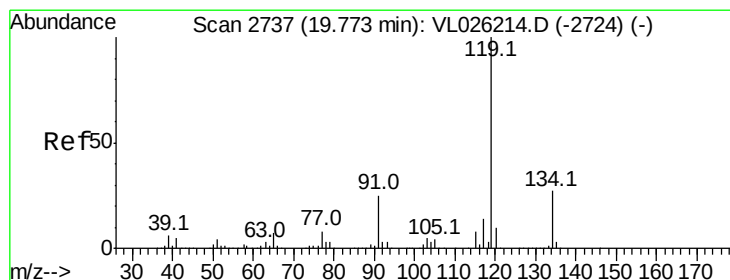
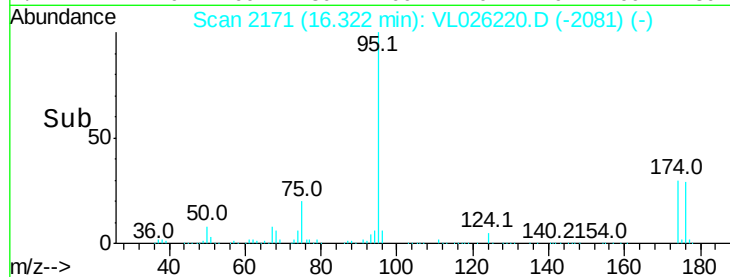
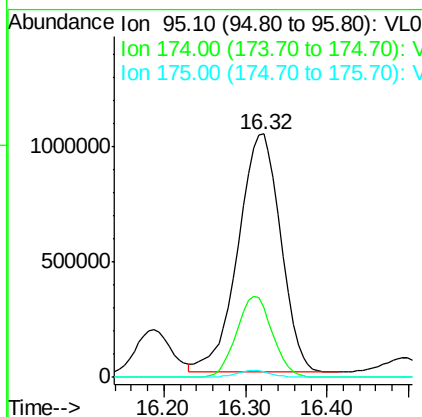
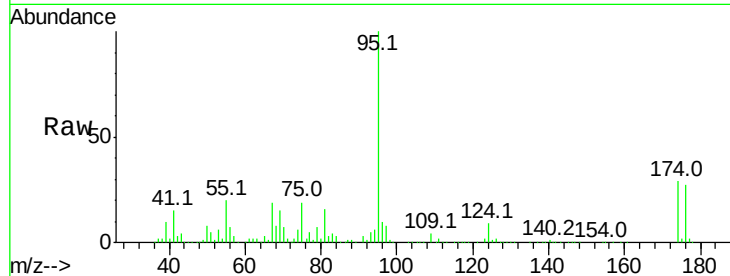




#68
 1-Bromo-4-Fluorobenzene
 Concen: 28.25 ppbv
 RT: 16.32 min Scan# 2171
 Delta R.T. 0.05 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

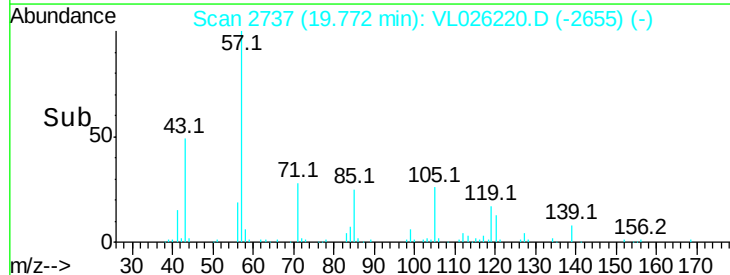
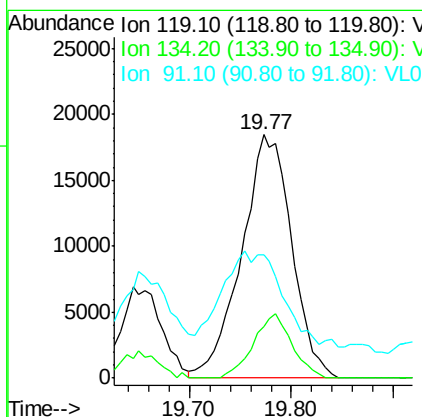
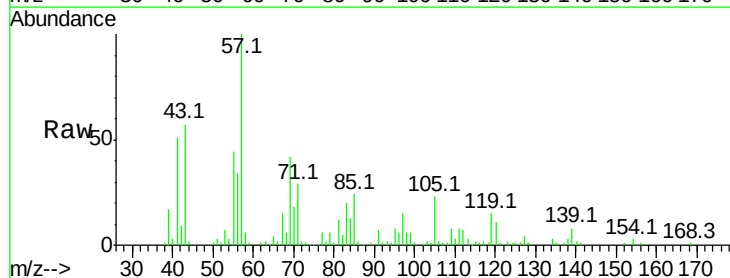
Instrument :
 MSVOA_L
 ClientSampled :
 SS-3

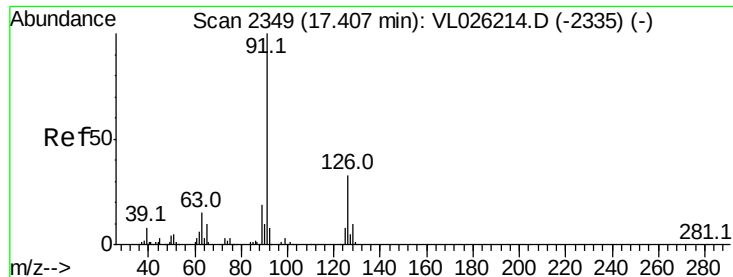
Tot Ion: 95 Resp: 3731838
 Ion Ratio Lower Upper
 95 100
 174 28.8 55.8 83.8#
 175 2.3 4.3 6.5#



#69
 p-Isopropyltoluene
 Concen: 0.19 ppbv
 RT: 19.77 min Scan# 2737
 Delta R.T. -0.00 min
 Lab File: VL026220.D
 Acq: 21 Oct 2015 00:24

Tgt Ion: 119 Resp: 63090
 Ion Ratio Lower Upper
 119 100
 134 20.3 21.4 32.0#
 91 54.4 19.5 29.3#





#71

2-Chlorotoluene

Concen: 0.08 ppbv

RT: 17.46 min Scan# 2358

Delta R.T. 0.05 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

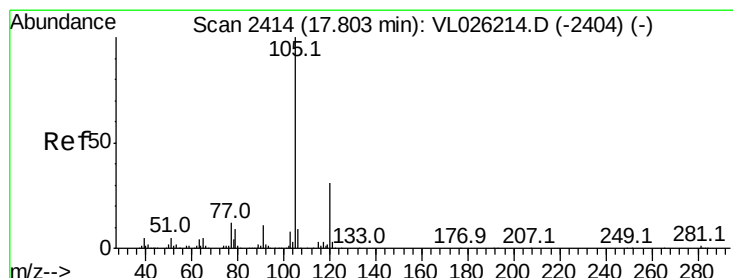
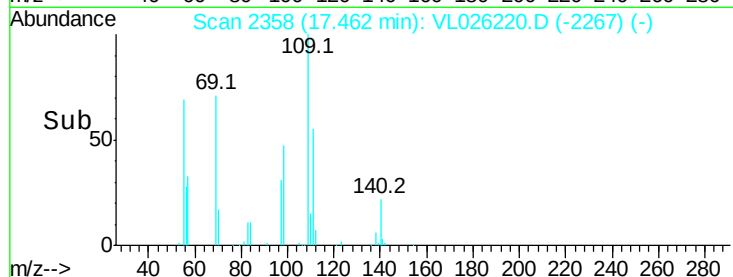
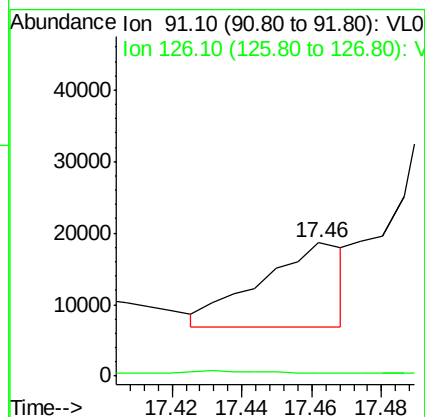
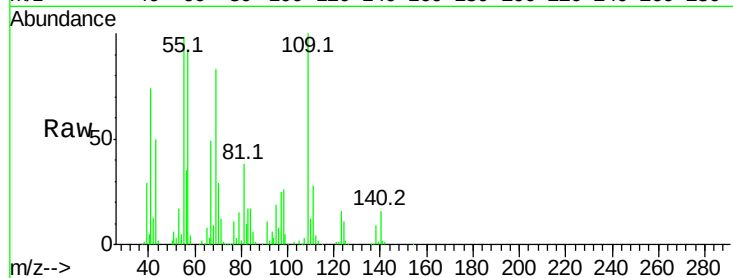
SS-3

Tot Ion: 91 Resp: 19549

Ion Ratio Lower Upper

91 100

126 0.0 12.9 51.7#



#72

4-Ethyltoluene

Concen: 0.88 ppbv

RT: 17.83 min Scan# 2419

Delta R.T. 0.03 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Tgt Ion: 105 Resp: 232966

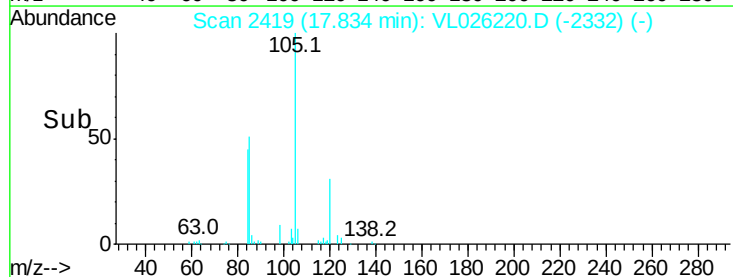
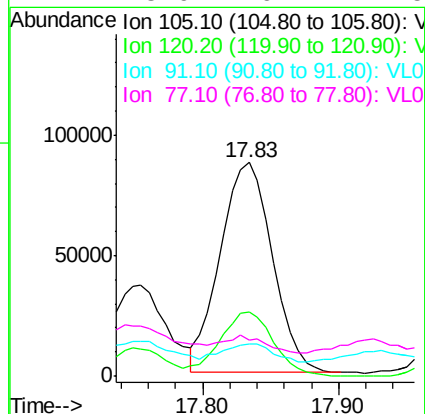
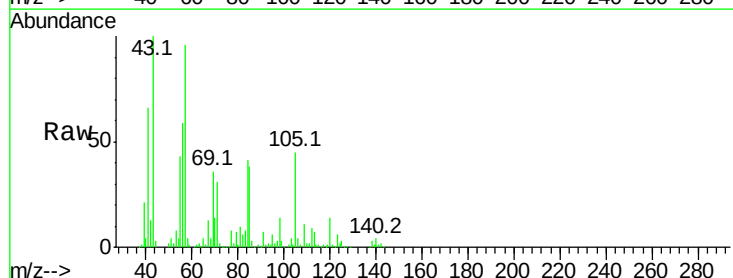
Ion Ratio Lower Upper

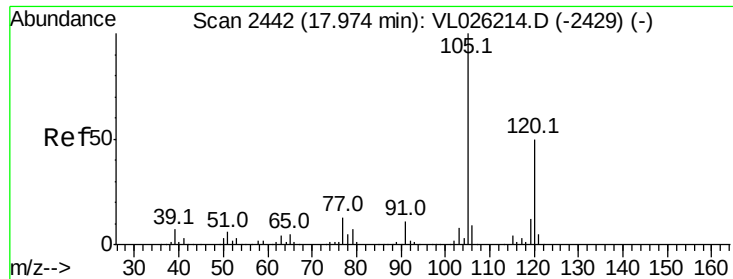
105 100

120 31.5 25.2 37.8

91 0.0 9.0 13.6#

77 8.9 9.7 14.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.80 ppbv

RT: 18.00 min Scan# 2446

Delta R.T. 0.02 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampled :

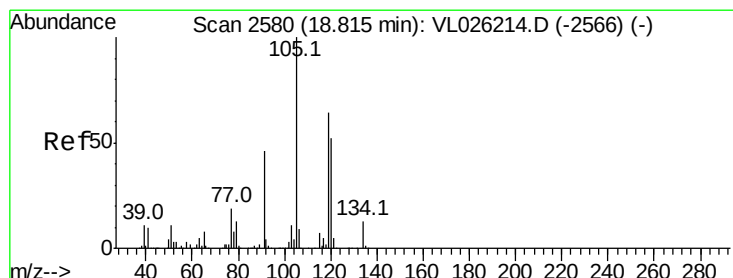
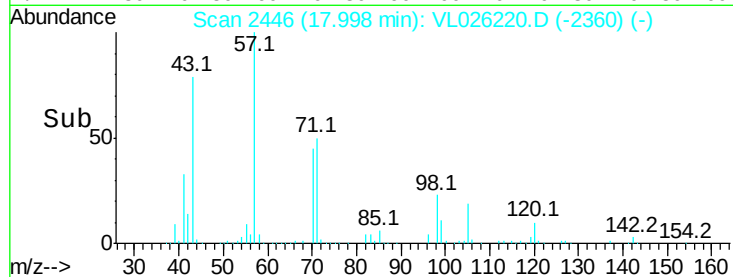
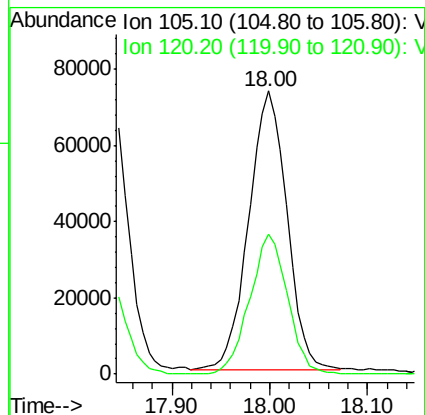
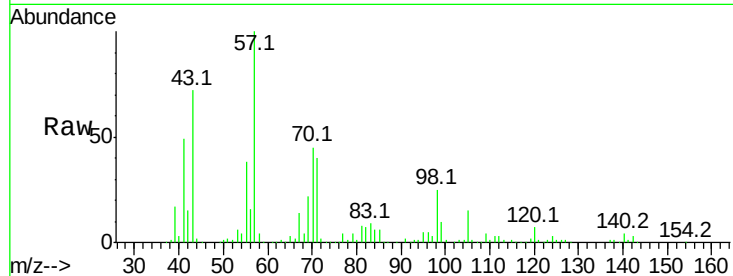
SS-3

Tot Ion:105 Resp: 197716

Ion Ratio Lower Upper

105 100

120 50.2 39.8 59.6



#74

1,2,4-Trimethylbenzene

Concen: 13.94 ppbv

RT: 18.83 min Scan# 2583

Delta R.T. 0.02 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Tgt Ion:105 Resp: 3561581

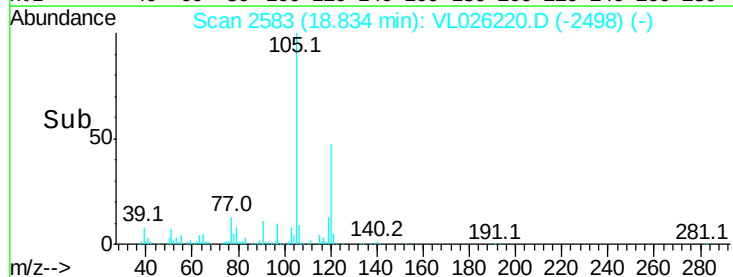
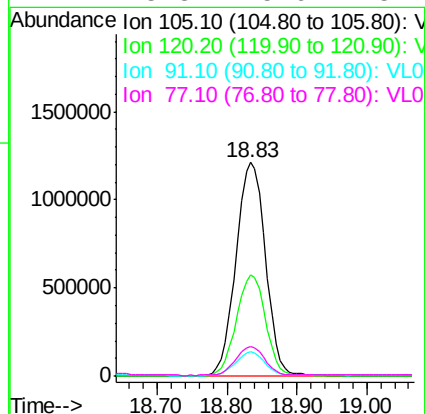
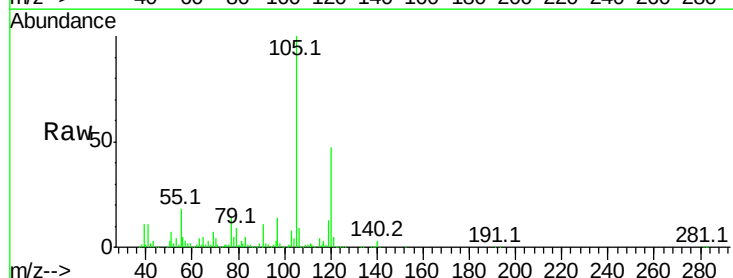
Ion Ratio Lower Upper

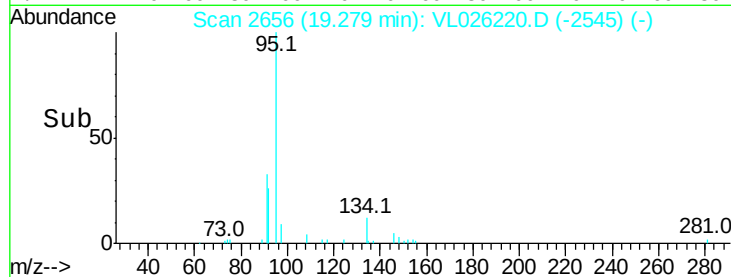
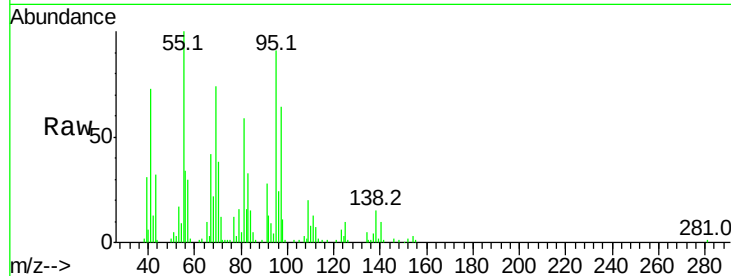
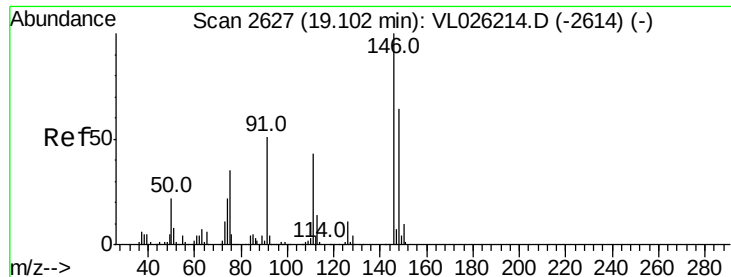
105 100

120 47.3 41.2 61.8

91 11.0 37.2 55.8#

77 13.3 15.6 23.4#





#75

1,3-Dichlorobenzene

Concen: 0.02 ppbv

RT: 19.28 min Scan# 2656

Delta R.T. 0.18 min

Lab File: VL026220.D

Acq: 21 Oct 2015 00:24

Instrument :

MSVOA_L

ClientSampleId :

SS-3

Tot Ion:146 Resp: 3962

Ion Ratio Lower Upper

146 100

111 2905.0 21.6 64.8#

148 65.3 31.8 95.4

