

Data Path : W:\HPCHEM1\MSVOA_L\Data\VL100915\
 Data File : VL026178.D
 Acq On : 9 Oct 2015 14:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Oct 09 16:00:48 2015
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL100915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 09 14:20:41 2015
 QLast Update : Fri Oct 09 14:20:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	868165	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	8.36	114	2544728	10.00	ppbv	0.02
55) Chlorobenzene-d5	13.79	117	3887318	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.33	95	2303520	8.03	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	80.30%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.65	85	2444576	19.62	ppbv	100
3) Chlorodifluoromethane	3.59	51	1390854	13.97	ppbv	99
4) Chloromethane	3.76	50	842913	14.30	ppbv	98
5) Vinyl Chloride	3.90	62	856768	13.61	ppbv	100
6) Bromomethane	4.16	94	618407	15.61	ppbv	99
7) Chloroethane	4.26	64	371328	15.16	ppbv	100
8) Dichlorotetrafluoroethane	3.82	85	1970502	14.58	ppbv	99
9) Propene	3.61	41	682890	13.49	ppbv	99
10) Heptane	9.38	43	2293511	13.07	ppbv	99
11) Trichlorofluoromethane	4.71	101	2324392	16.26	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.32	101	1552201	15.74	ppbv	100
13) Ethanol	4.35	45	100532	16.40	ppbv	94
14) Bromoethene	4.47	108	667025	15.86	ppbv	100
15) Acetone	4.62	43	1443027	13.38	ppbv	100
16) 1,3-Butadiene	3.98	39	760505	14.21	ppbv	100
17) tert-Butyl alcohol	5.15	59	1052326	15.02	ppbv	99
18) 1,1-Dichloroethene	5.10	96	727571	15.79	ppbv	98
19) Isopropyl Alcohol	4.78	45	704137	15.60	ppbv	99
20) Methylene Chloride	5.17	84	676109	14.74	ppbv	99
21) Allyl Chloride	5.24	41	1158996	15.57	ppbv	99
22) trans-1,2-Dichloroethene	5.79	96	922373	14.89	ppbv	98
23) Vinyl Acetate	6.01	43	3082606	15.08	ppbv	100
24) 1,1-Dichloroethane	5.93	63	1961013	14.23	ppbv	100
25) Ethyl Acetate	6.70	43	3103693	13.55	ppbv	100
26) Hexane	6.68	57	1499638	13.66	ppbv	99
27) Carbon Disulfide	5.41	76	2067821	17.59	ppbv	99
28) Methyl tert-Butyl Ether	5.98	73	2569010	15.38	ppbv	100
29) Chloroform	6.78	83	2266912	14.87	ppbv	99
30) Cyclohexane	8.31	84	1503812	14.34	ppbv	99
31) cis-1,2-Dichloroethene	6.54	61	1471792	14.66	ppbv	99
32) 1,1,1-Trichloroethane	7.63	97	2278500	14.94	ppbv	100
34) 2-Butanone	6.23	43	2056577	12.59	ppbv	99
35) Carbon Tetrachloride	8.19	117	2378248	13.94	ppbv	100
36) Benzene	8.06	78	3382130	12.57	ppbv	98
37) 1,2-Dichloroethane	7.40	62	1840881	13.70	ppbv	100
38) Trichloroethene	9.10	130	1291783	10.98	ppbv	98
39) 1,2-Dichloropropane	8.86	63	1249435	12.37	ppbv	99
40) 1,4-Dioxane	9.15	88	293498	19.85	ppbv #	1
41) Tetrahydrofuran	7.15	42	1218545	12.73	ppbv	100
42) Bromodichloromethane	9.06	83	2468439	13.94	ppbv	100
43) Methyl Methacrylate	9.30	69	1329006	13.91	ppbv	100

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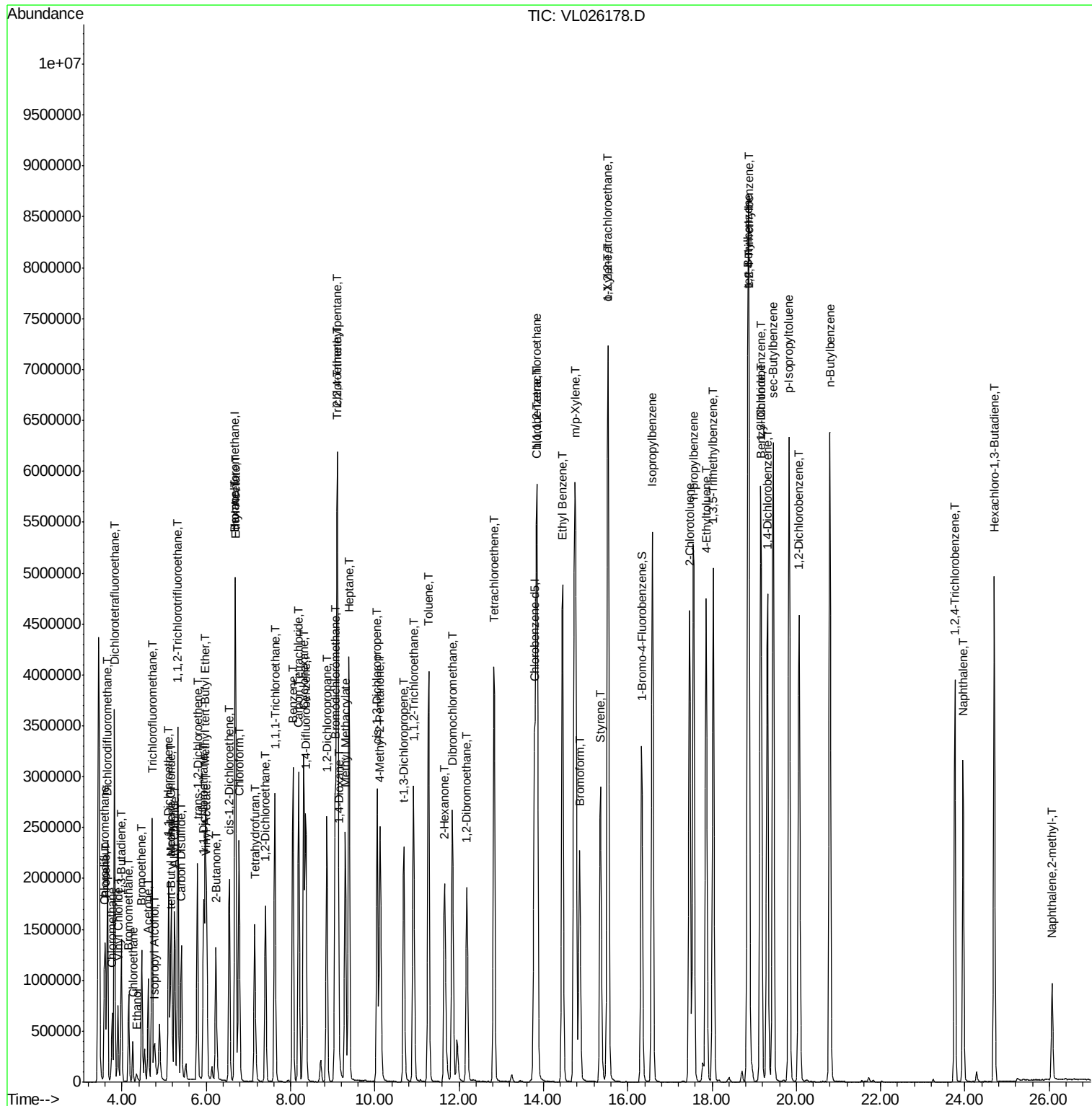
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.12	57	5144805	11.29	ppbv	99
45) t-1,3-Dichloropropene	10.69	75	1998873	15.98	ppbv	100
46) cis-1,3-Dichloropropene	10.05	75	2304202	14.86	ppbv	98
47) 1,1,2-Trichloroethane	10.91	97	1503868	13.13	ppbv	99
48) Dibromochloromethane	11.84	129	2349991	15.15	ppbv	99
49) Bromoform	14.86	173	1891874	16.44	ppbv	99
50) 4-Methyl-2-Pentanone	10.12	43	2841649	12.99	ppbv	100
51) 2-Hexanone	11.65	43	2710265	13.52	ppbv #	100
52) Tetrachloroethene	12.83	164	1417462	11.59	ppbv	99
53) Toluene	11.27	91	4408546	12.97	ppbv	100
54) 1,2-Dibromoethane	12.18	107	2291746	13.42	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.83	131	1632854	10.13	ppbv	88
57) Chlorobenzene	13.85	112	3483097	9.07	ppbv	99
58) Ethyl Benzene	14.45	91	6118428	9.48	ppbv	100
59) m/p-Xylene	14.76	91	9297636	18.32	ppbv	100
60) o-Xylene	15.53	91	4755170	9.03	ppbv	100
61) Styrene	15.35	104	2436963	10.78	ppbv	100
62) Isopropylbenzene	16.58	105	6606200	9.55	ppbv	99
63) 1,1,2,2-Tetrachloroethane	15.53	83	3201591	7.93	ppbv	100
64) n-propylbenzene	17.56	120	1854526	10.03	ppbv	97
65) tert-Butylbenzene	18.85	119	5654162	9.32	ppbv	100
66) Benzyl Chloride	19.14	91	2374886	14.39	ppbv	100
67) sec-Butylbenzene	19.45	105	8095361	9.45	ppbv	99
69) p-Isopropyltoluene	19.83	119	6725901	9.71	ppbv	99
70) n-Butylbenzene	20.79	91	6463576	9.33	ppbv	99
71) 2-Chlorotoluene	17.47	91	5057624	9.61	ppbv	99
72) 4-Ethyltoluene	17.86	105	5716490	9.93	ppbv	99
73) 1,3,5-Trimethylbenzene	18.03	105	5293320	9.91	ppbv	100
74) 1,2,4-Trimethylbenzene	18.88	105	5081281	9.08	ppbv	96
75) 1,3-Dichlorobenzene	19.16	146	3401064	9.78	ppbv	100
76) 1,4-Dichlorobenzene	19.32	146	3546372	9.91	ppbv	100
77) 1,2-Dichlorobenzene	20.07	146	3412050	9.83	ppbv	100
78) Hexachloro-1,3-Butadiene	24.70	225	1178776	8.48	ppbv	100
79) Naphthalene	23.95	128	3602287	8.28	ppbv	99
80) Naphthalene,2-methyl-	26.07	142	770191	7.55	ppbv	99
81) 1,2,4-Trichlorobenzene	23.76	180	1676394	8.01	ppbv	100

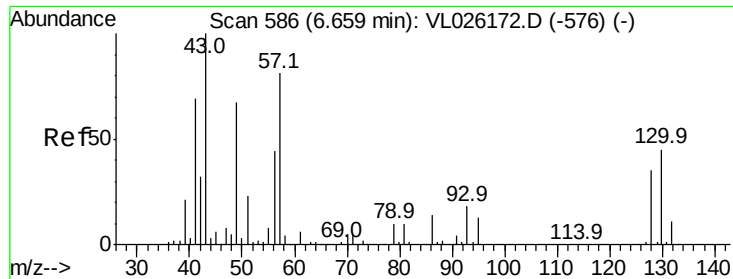
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
VSTDICC015

Quant Time: Oct 09 16:00:48 2015
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL100915AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Oct 09 14:20:41 2015
QLast Update : Fri Oct 09 14:20:41 2015
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.68 min Scan# 590

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

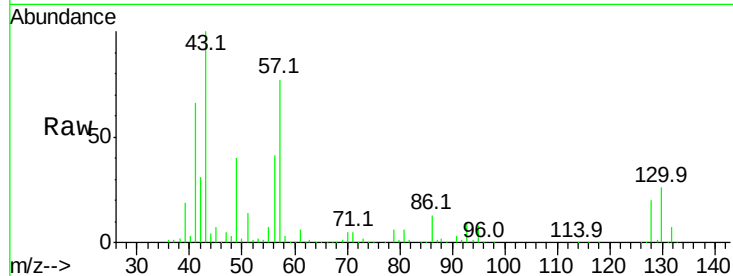
Tgt Ion: 49 Resp: 868165

Ion Ratio Lower Upper

49 100

128 52.0 26.3 78.8

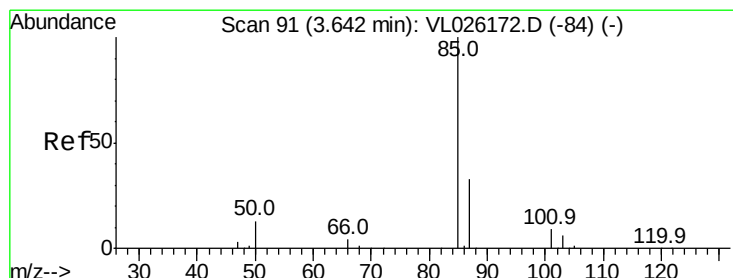
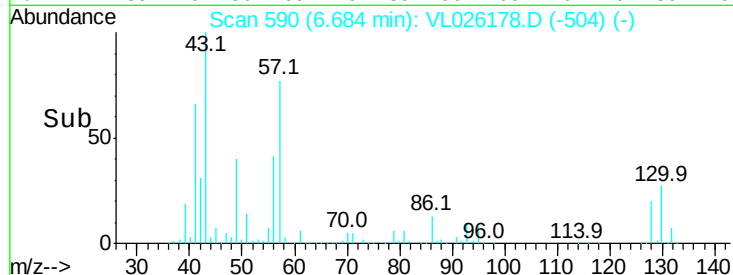
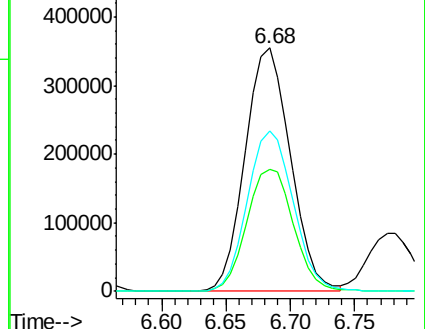
130 67.2 34.2 102.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 19.62 ppbv

RT: 3.65 min Scan# 93

Delta R.T. 0.01 min

Lab File: VL026178.D

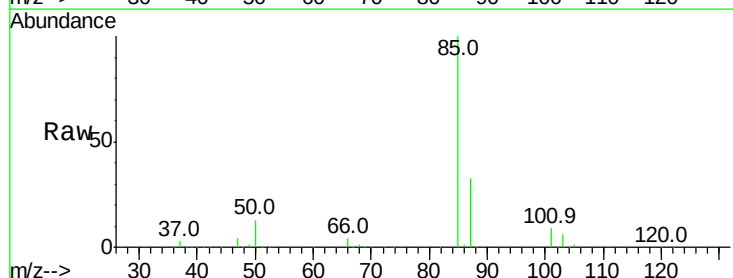
Acq: 9 Oct 2015 14:54

Tgt Ion: 85 Resp: 2444576

Ion Ratio Lower Upper

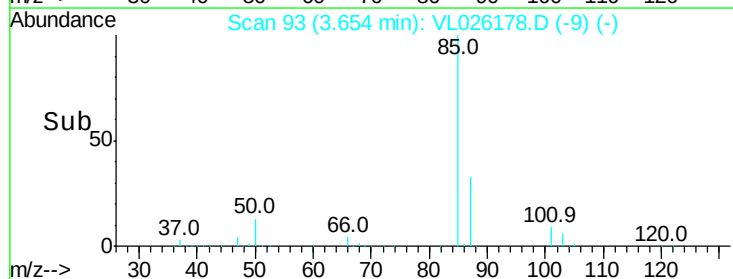
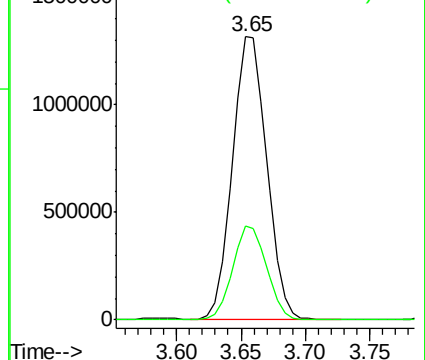
85 100

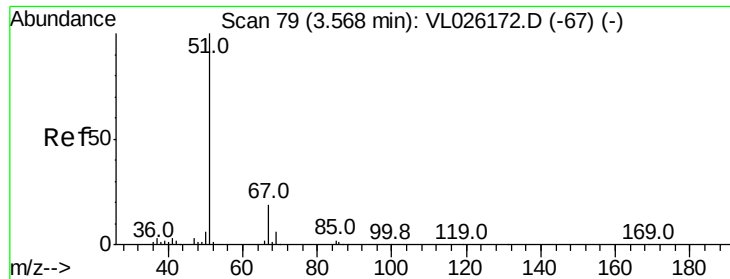
87 33.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.97 ppbv

RT: 3.59 min Scan# 82

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

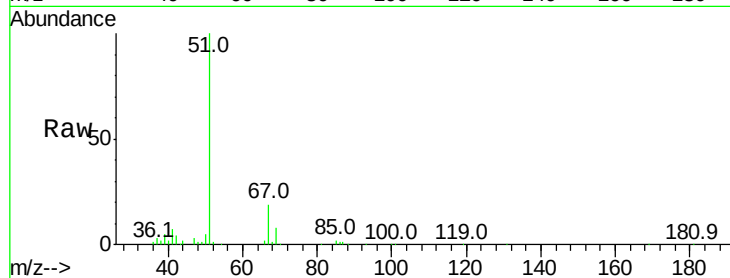
VSTDIC015

Tgt Ion: 51 Resp: 1390854

Ion Ratio Lower Upper

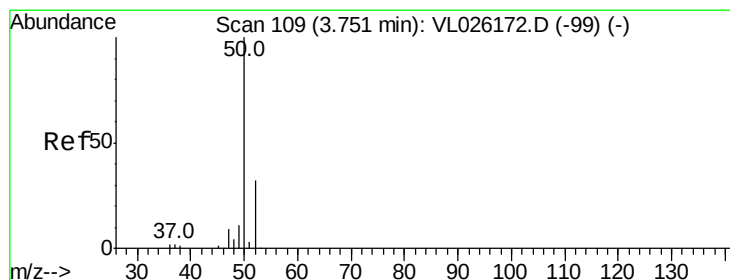
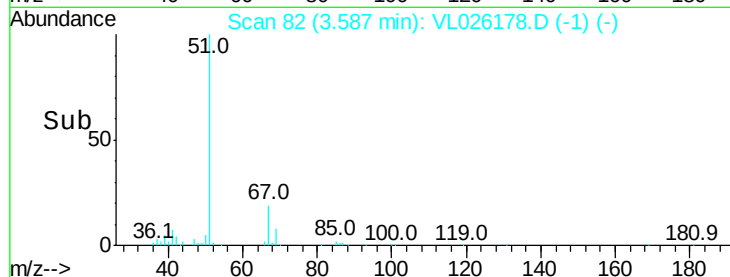
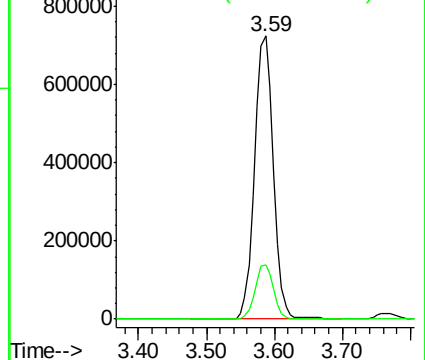
51 100

67 18.9 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 14.30 ppbv

RT: 3.76 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL026178.D

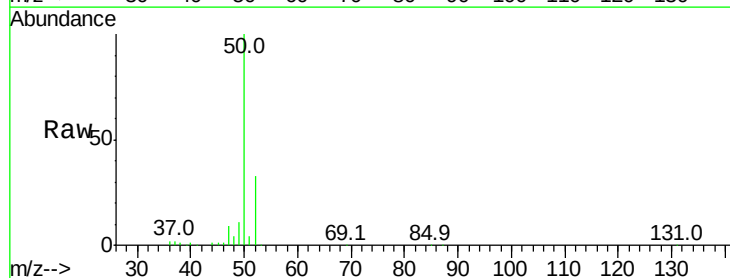
Acq: 9 Oct 2015 14:54

Tgt Ion: 50 Resp: 842913

Ion Ratio Lower Upper

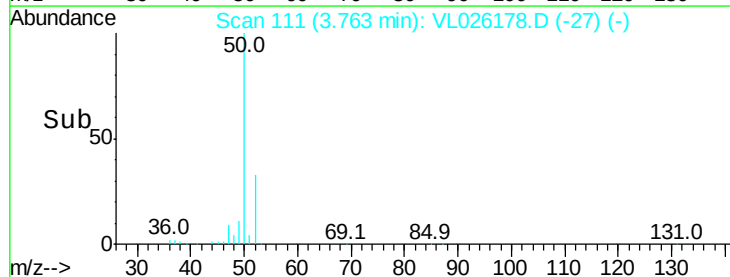
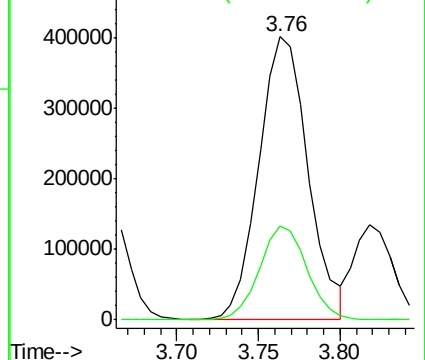
50 100

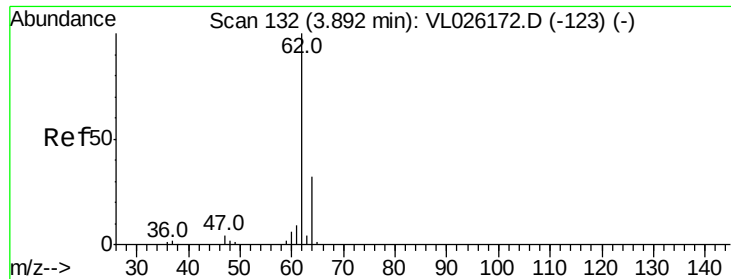
52 33.3 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.61 ppbv

RT: 3.90 min Scan# 134

Delta R.T. 0.01 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

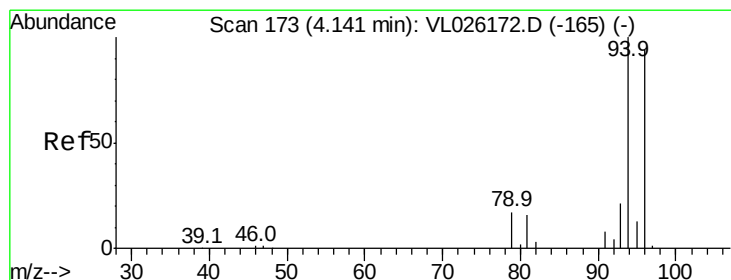
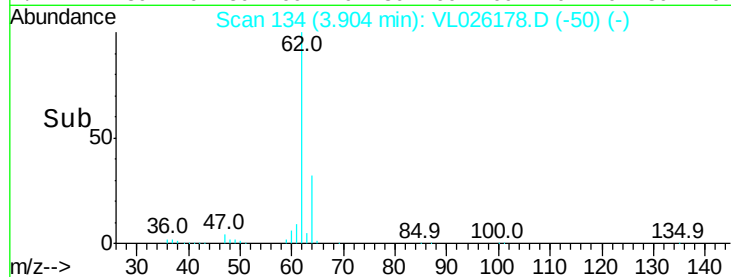
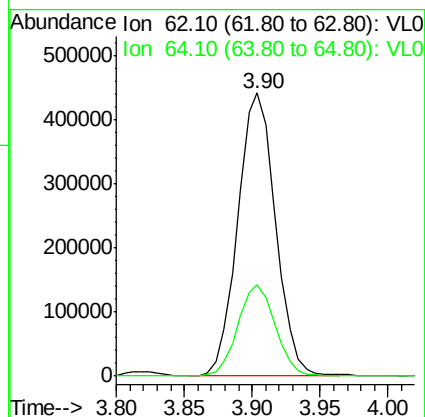
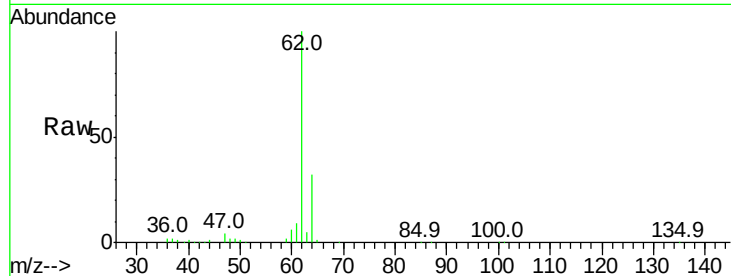
VSTDIC015

Tgt Ion: 62 Resp: 856768

Ion Ratio Lower Upper

62 100

64 32.2 25.6 38.4



#6

Bromomethane

Concen: 15.61 ppbv

RT: 4.16 min Scan# 176

Delta R.T. 0.02 min

Lab File: VL026178.D

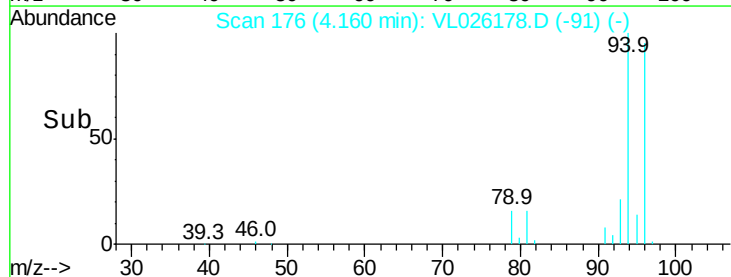
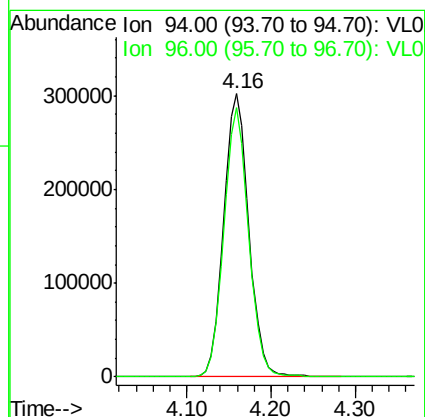
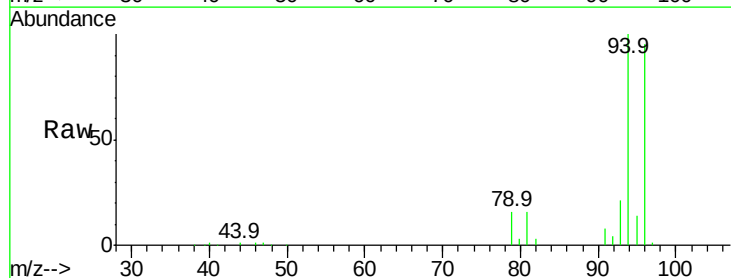
Acq: 9 Oct 2015 14:54

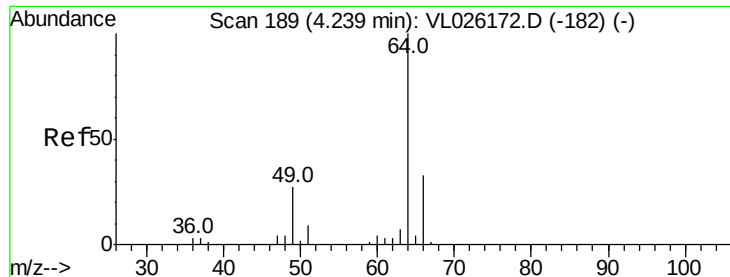
Tgt Ion: 94 Resp: 618407

Ion Ratio Lower Upper

94 100

96 95.2 75.4 113.2





#7

Chloroethane

Concen: 15.16 ppbv

RT: 4.26 min Scan# 192

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

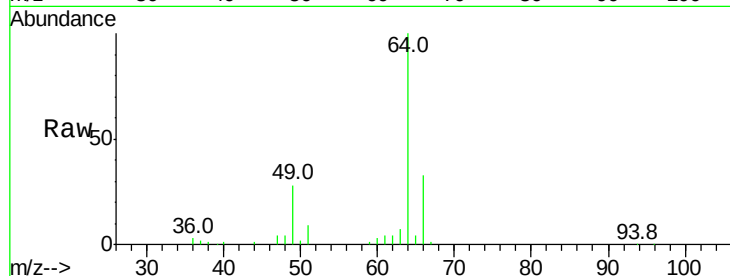
VSTDIC015

Tgt Ion: 64 Resp: 371328

Ion Ratio Lower Upper

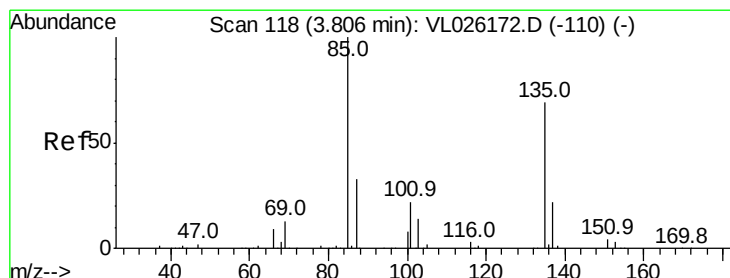
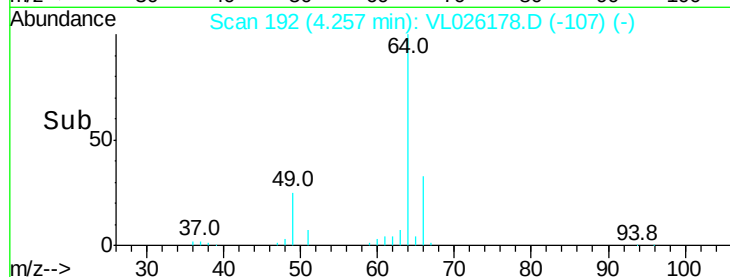
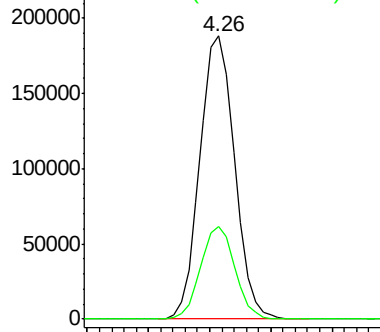
64 100

66 32.9 26.5 39.7



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 14.58 ppbv

RT: 3.82 min Scan# 120

Delta R.T. 0.01 min

Lab File: VL026178.D

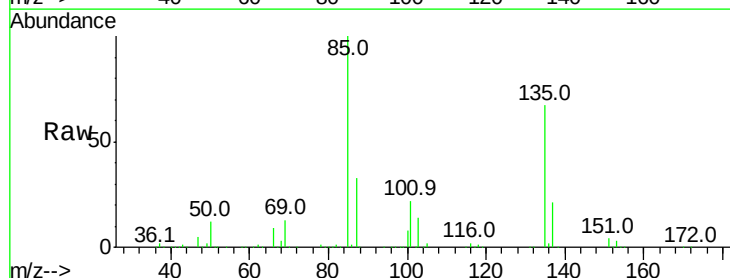
Acq: 9 Oct 2015 14:54

Tgt Ion: 85 Resp: 1970502

Ion Ratio Lower Upper

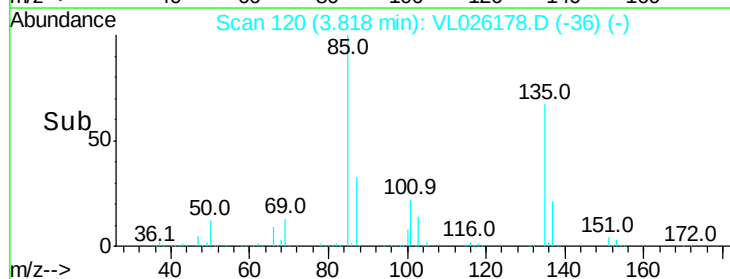
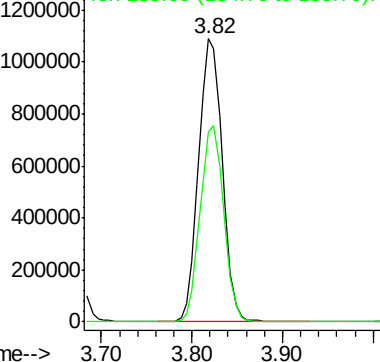
85 100

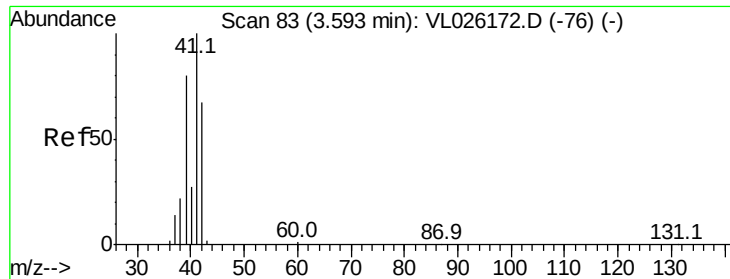
135 69.6 55.3 82.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 13.49 ppbv

RT: 3.61 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL026178.D

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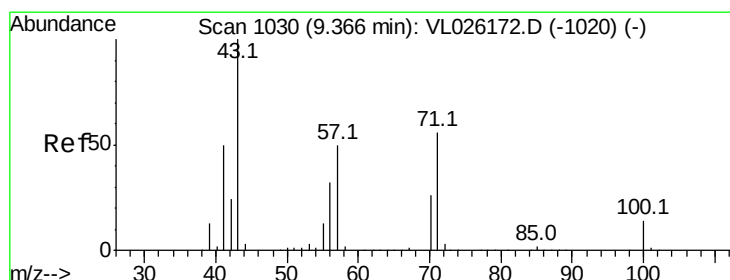
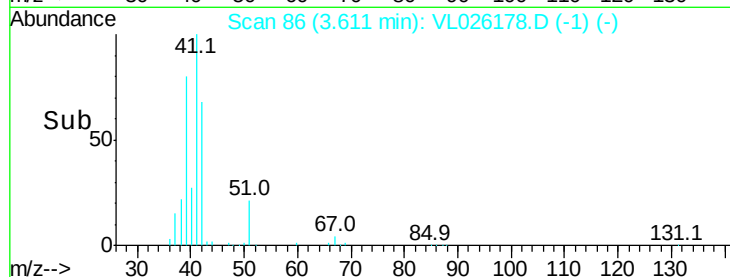
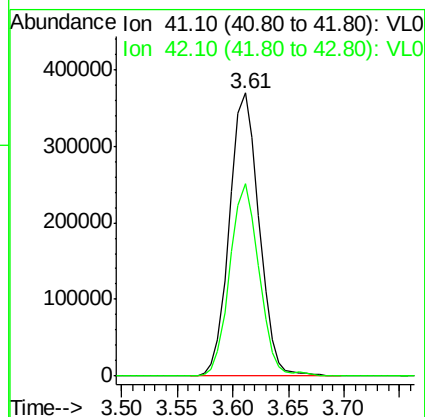
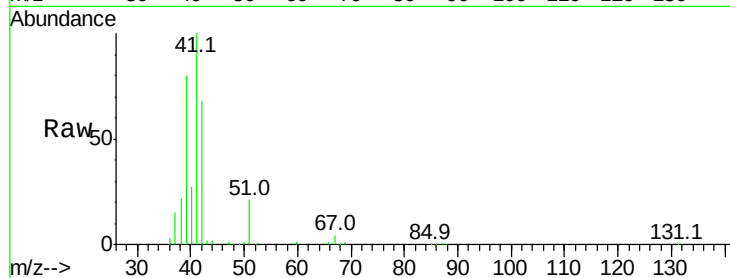
VSTDIC015

Tgt Ion: 41 Resp: 682890

Ion Ratio Lower Upper

41 100

42 67.4 53.6 80.4



#10

Heptane

Concen: 13.07 ppbv

RT: 9.38 min Scan# 1033

Delta R.T. 0.02 min

Lab File: VL026178.D

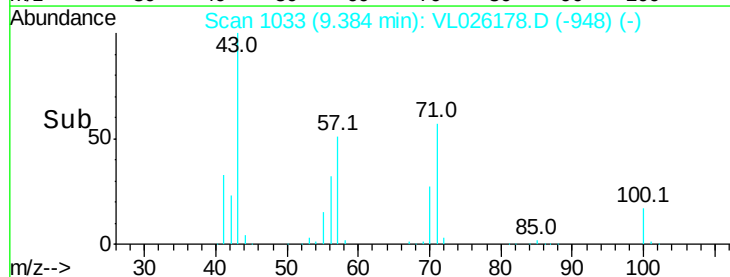
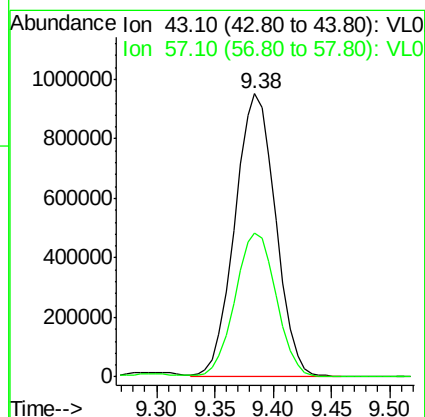
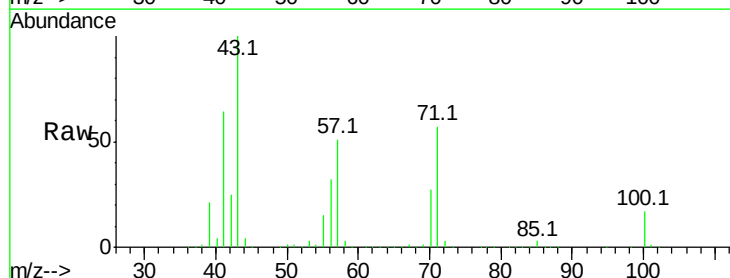
Acq: 9 Oct 2015 14:54

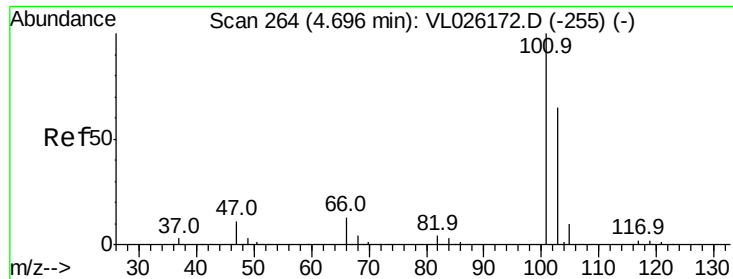
Tgt Ion: 43 Resp: 2293511

Ion Ratio Lower Upper

43 100

57 53.0 41.8 62.8

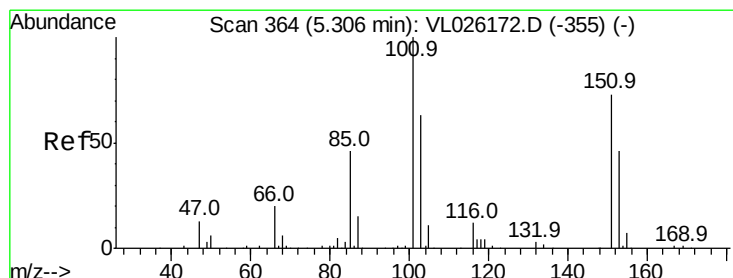
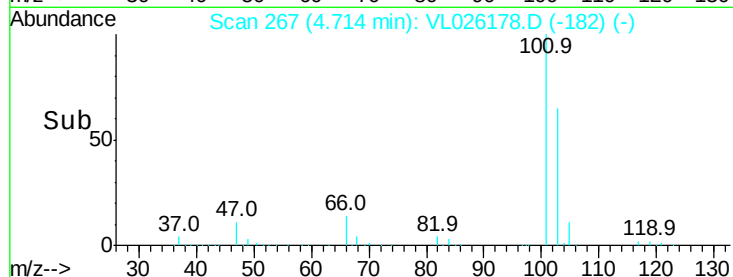
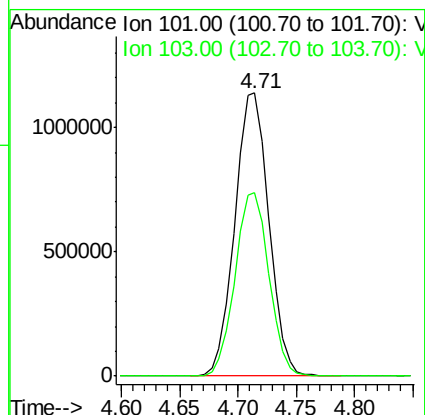
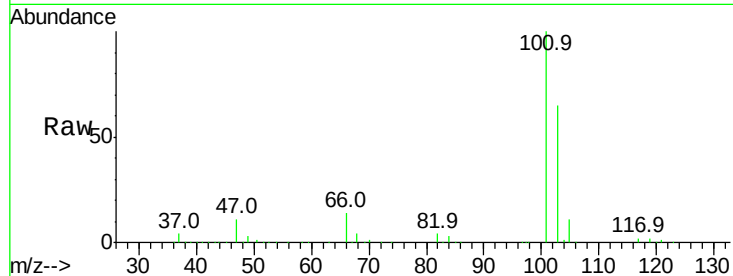




#11
 Trichlorofluoromethane
 Concen: 16.26 ppbv
 RT: 4.71 min Scan# 267
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

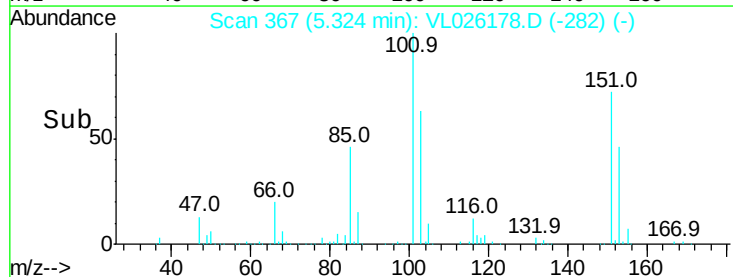
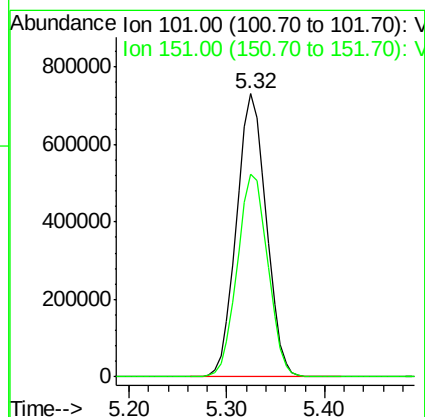
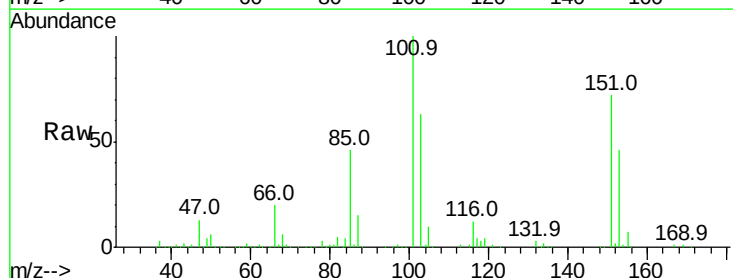
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

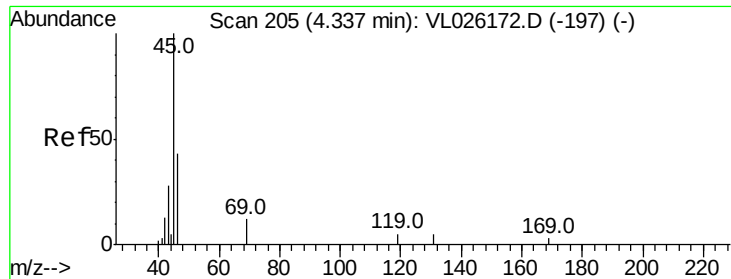
Tgt Ion:101 Resp: 2324392
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 15.74 ppbv
 RT: 5.32 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

Tgt Ion:101 Resp: 1552201
 Ion Ratio Lower Upper
 101 100
 151 73.5 59.0 88.6





#13

Ethanol

Concen: 16.40 ppbv

RT: 4.35 min Scan# 207

Delta R.T. 0.01 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

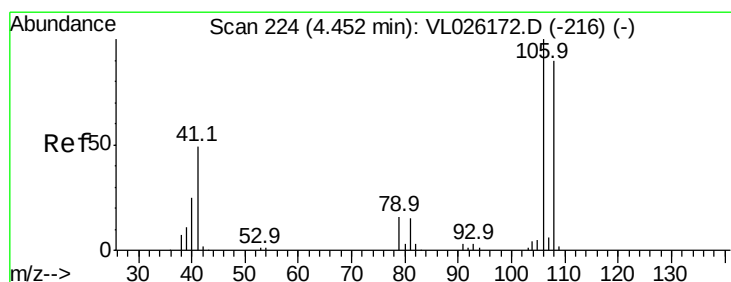
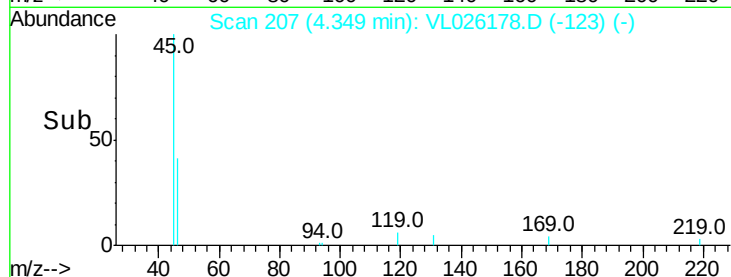
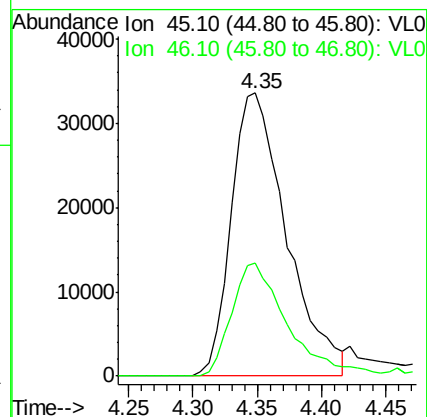
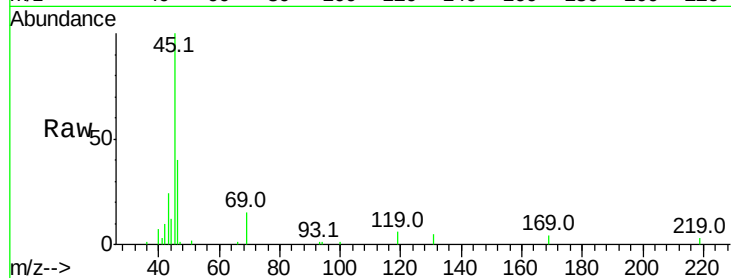
VSTDIC015

Tgt Ion: 45 Resp: 100532

Ion Ratio Lower Upper

45 100

46 41.6 18.1 72.5



#14

Bromoethene

Concen: 15.86 ppbv

RT: 4.47 min Scan# 227

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

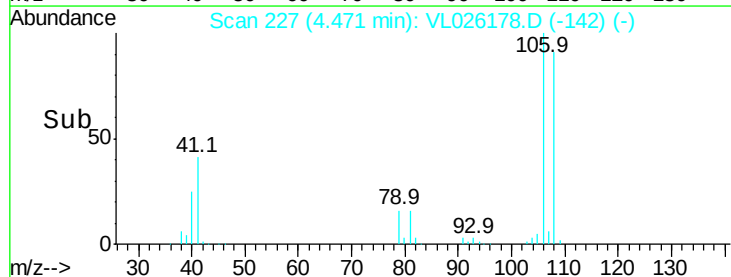
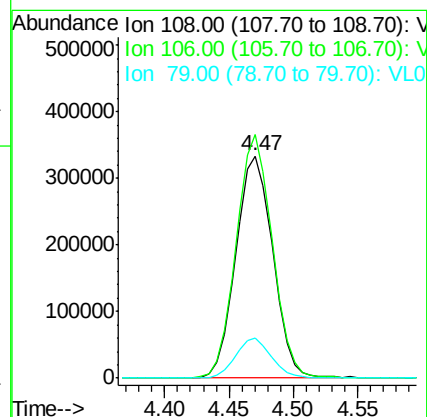
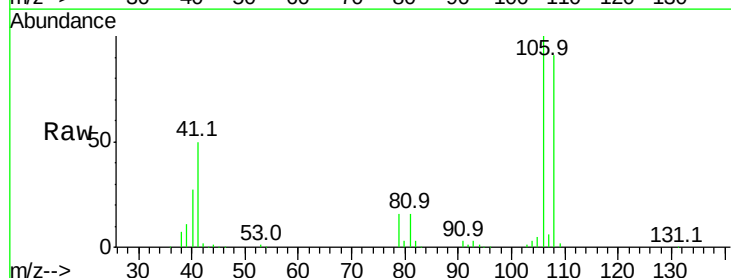
Tgt Ion: 108 Resp: 667025

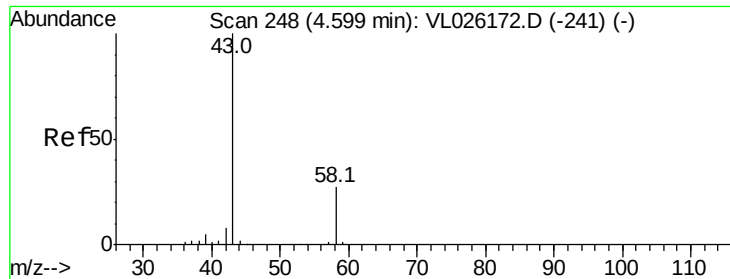
Ion Ratio Lower Upper

108 100

106 107.2 85.9 128.9

79 17.6 14.0 21.0





#15

Acetone

Concen: 13.38 ppbv

RT: 4.62 min Scan# 251

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

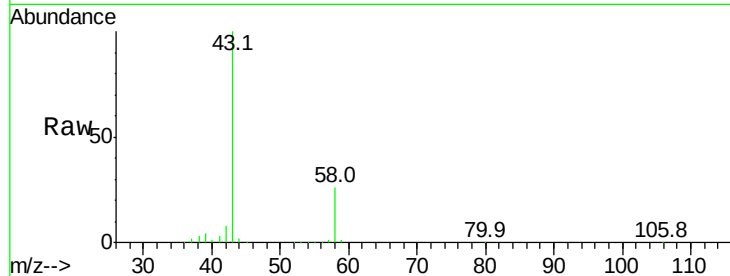
VSTDIC015

Tgt Ion: 43 Resp: 1443027

Ion Ratio Lower Upper

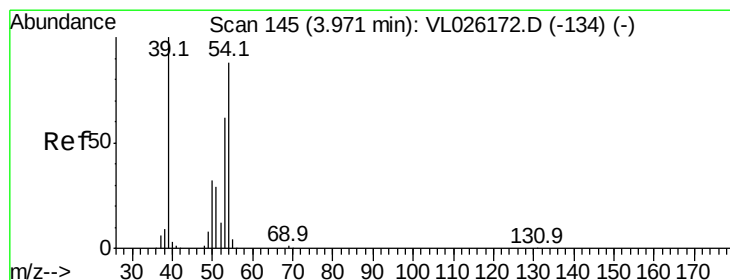
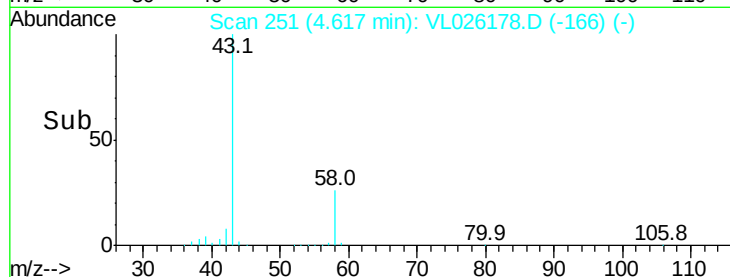
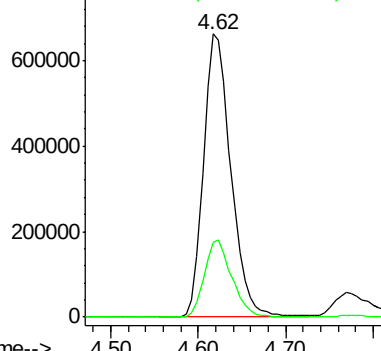
43 100

58 27.4 22.0 33.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 14.21 ppbv

RT: 3.98 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL026178.D

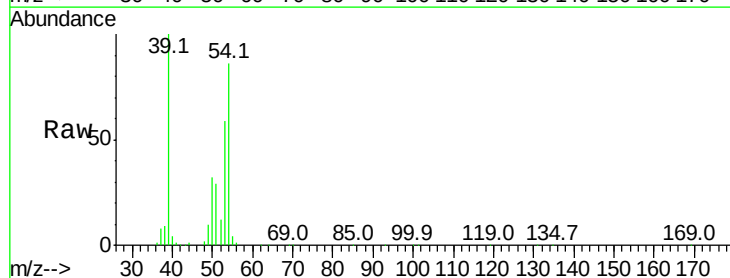
Acq: 9 Oct 2015 14:54

Tgt Ion: 39 Resp: 760505

Ion Ratio Lower Upper

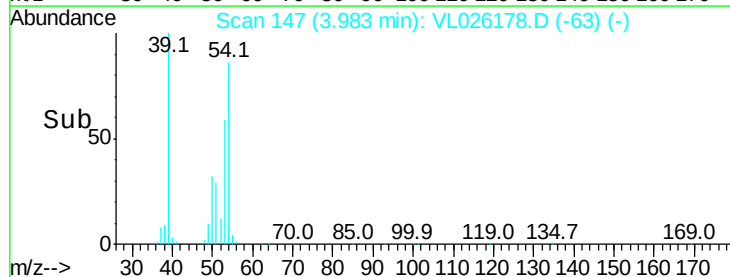
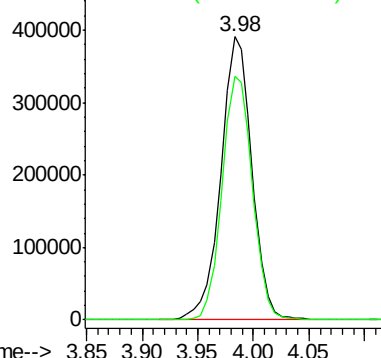
39 100

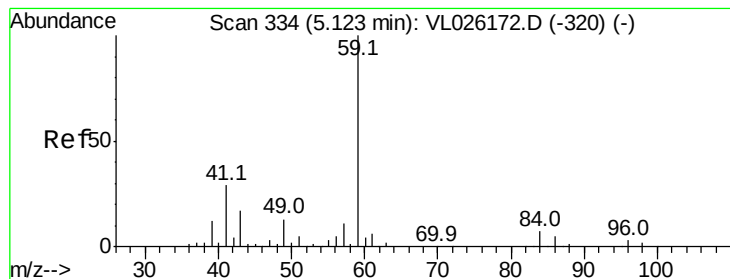
54 84.5 67.9 101.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 15.02 ppbv

RT: 5.15 min Scan# 338

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

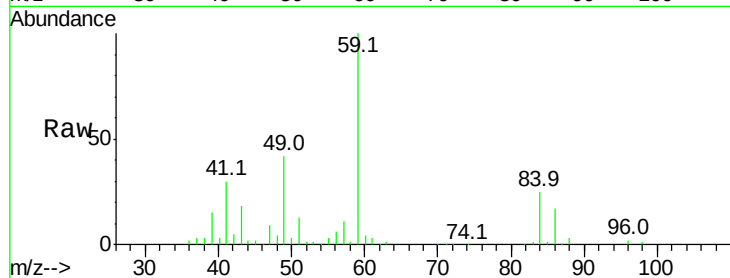
VSTDIC015

Tgt Ion: 59 Resp: 1052326

Ion Ratio Lower Upper

59 100

57 10.8 8.8 13.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

5.15

300000

250000

200000

150000

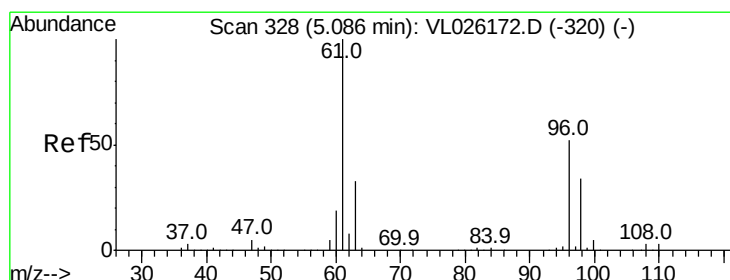
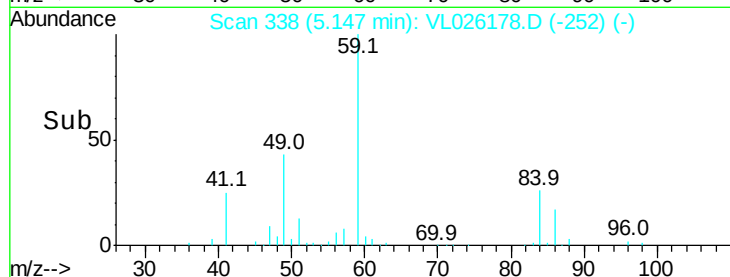
100000

50000

0

Time-->

5.00 5.10 5.20 5.30



#18

1,1-Dichloroethene

Concen: 15.79 ppbv

RT: 5.10 min Scan# 331

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

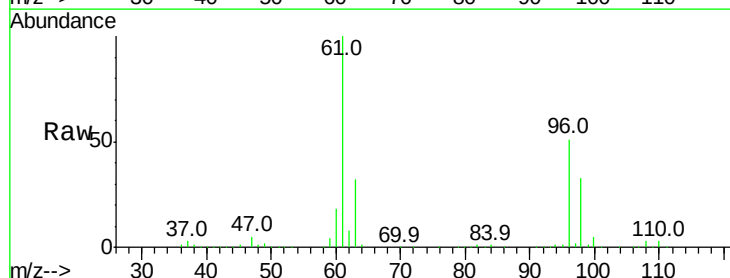
Tgt Ion: 96 Resp: 727571

Ion Ratio Lower Upper

96 100

61 195.6 153.2 229.8

98 65.1 52.1 78.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

5.10

800000

600000

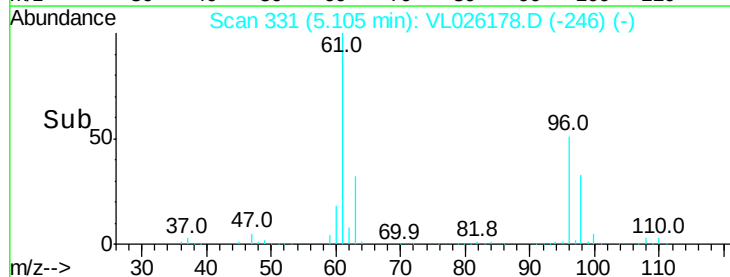
400000

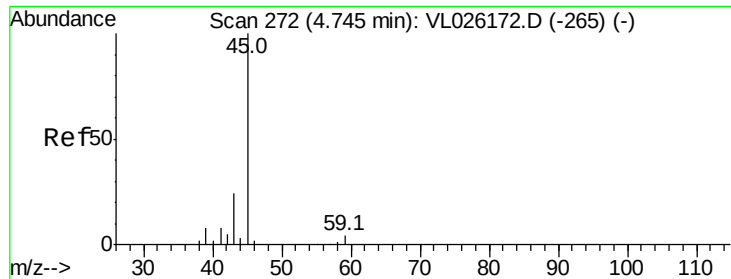
200000

0

Time-->

5.00 5.05 5.10 5.15 5.20





#19

Isopropyl Alcohol

Concen: 15.60 ppbv

RT: 4.78 min Scan# 277

Delta R.T. 0.03 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

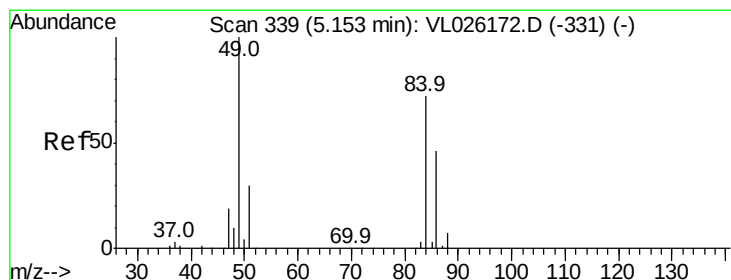
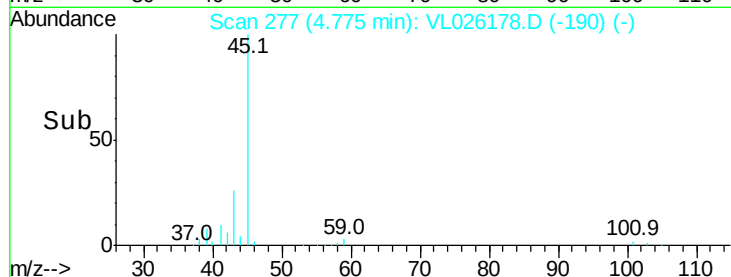
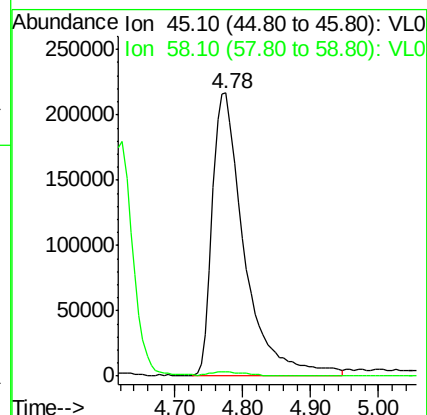
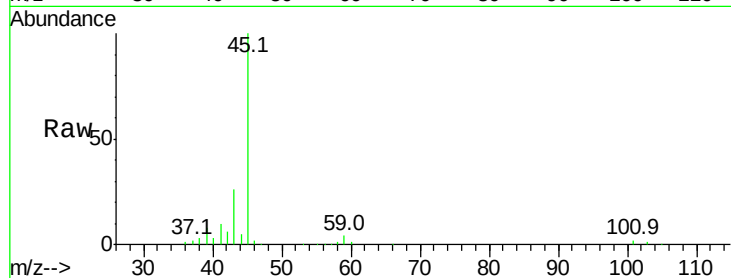
VSTDIC015

Tgt Ion: 45 Resp: 704137

Ion Ratio Lower Upper

45 100

58 1.8 1.7 2.5



#20

Methylene Chloride

Concen: 14.74 ppbv

RT: 5.17 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Tgt Ion: 84 Resp: 676109

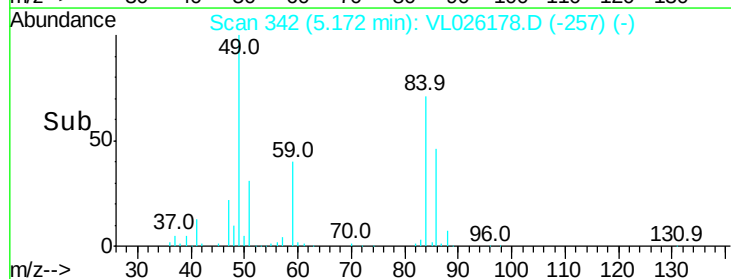
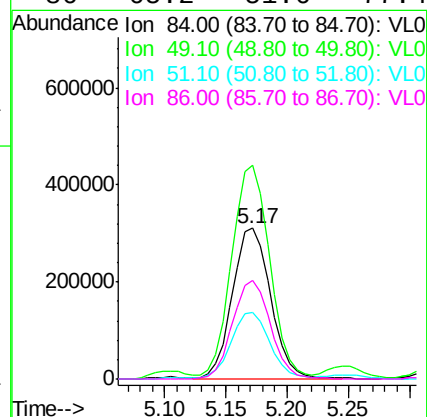
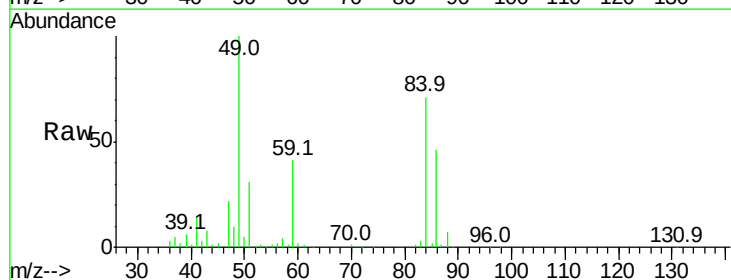
Ion Ratio Lower Upper

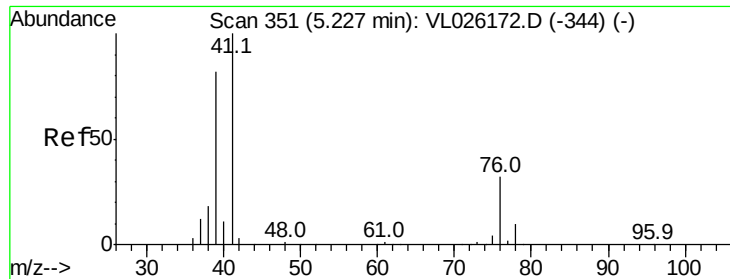
84 100

49 139.7 111.3 166.9

51 43.8 33.0 49.6

86 65.2 51.6 77.4





#21

Allyl Chloride

Concen: 15.57 ppbv

RT: 5.24 min Scan# 354

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

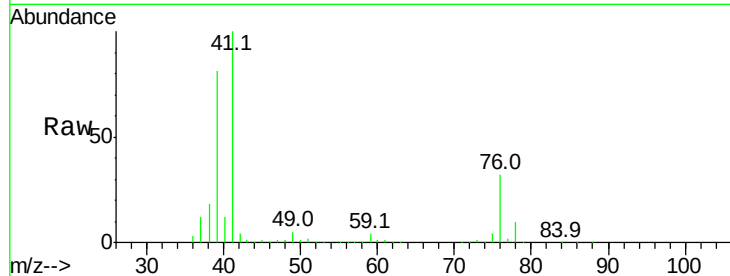
Tgt Ion: 41 Resp: 1158996

Ion Ratio Lower Upper

41 100

76 31.7 25.4 38.2

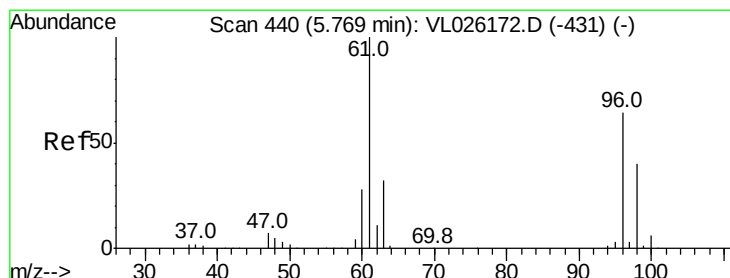
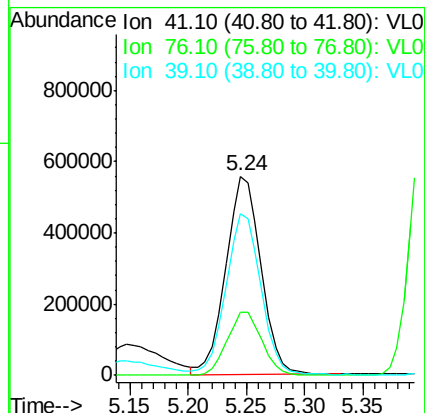
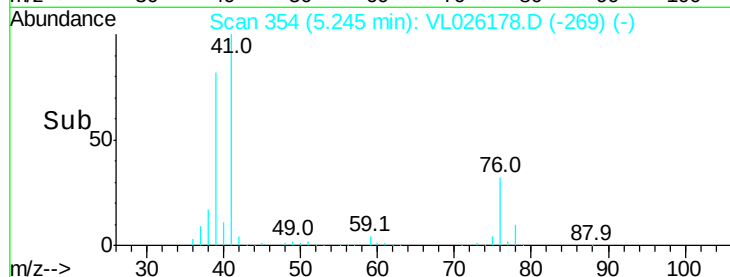
39 81.5 66.5 99.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 14.89 ppbv

RT: 5.79 min Scan# 443

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

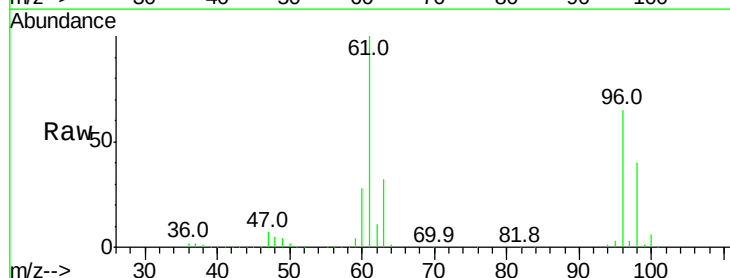
Tgt Ion: 96 Resp: 922373

Ion Ratio Lower Upper

96 100

61 155.0 125.8 188.6

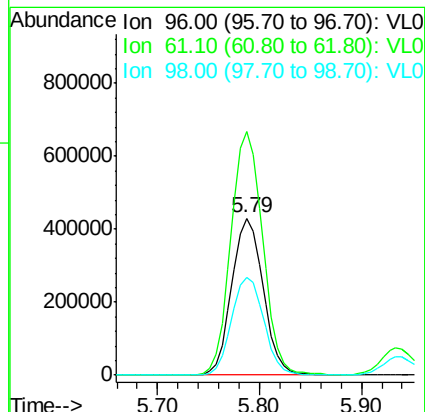
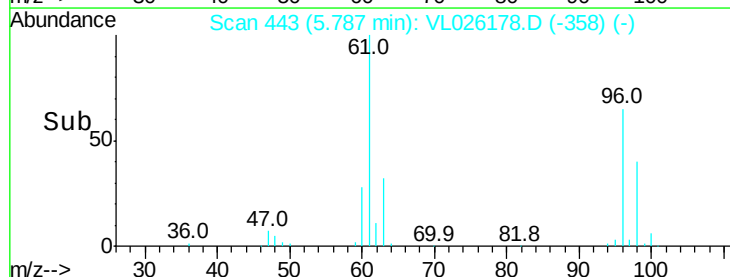
98 62.3 50.6 75.8

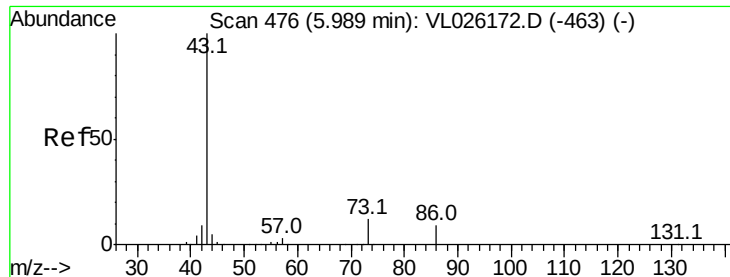


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 15.08 ppbv

RT: 6.01 min Scan# 480

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3082606

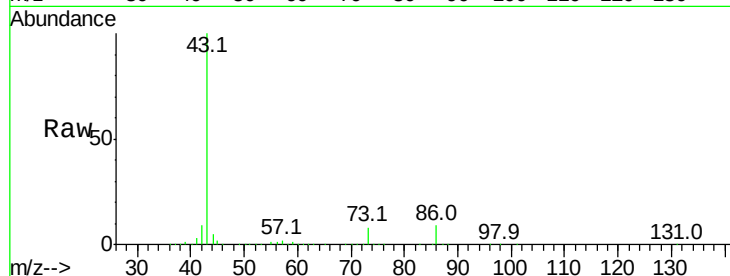
Ion	Ratio	Lower	Upper
43	100		
86	9.1	7.2	10.8
42	9.3	7.4	11.2
44	4.7	3.9	5.9

43 100

86 9.1 7.2 10.8

42 9.3 7.4 11.2

44 4.7 3.9 5.9



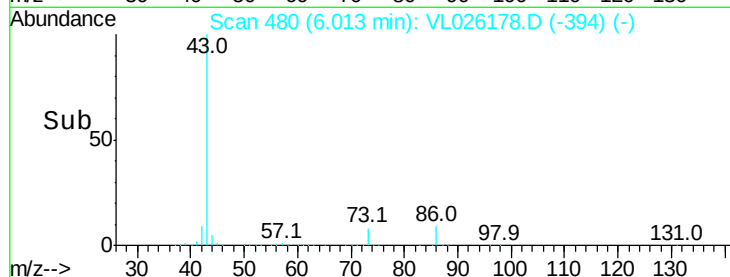
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

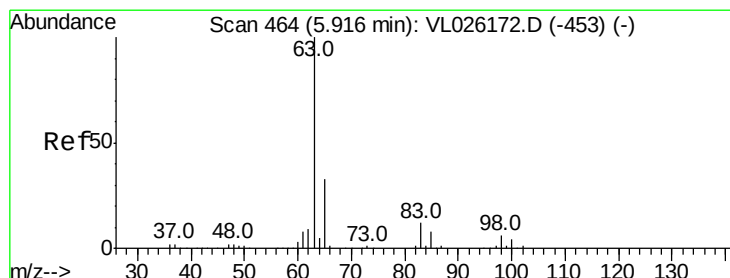
Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

Time-->



Time-->



#24

1,1-Dichloroethane

Concen: 14.23 ppbv

RT: 5.93 min Scan# 467

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

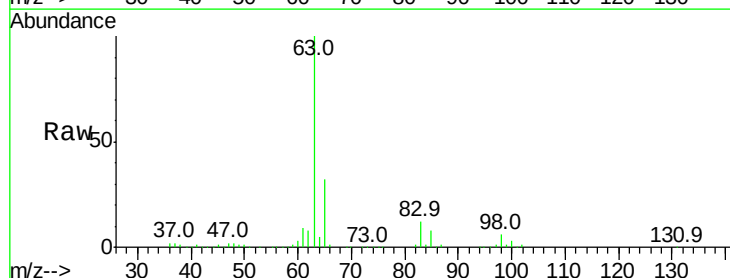
Tgt Ion: 63 Resp: 1961013

Ion	Ratio	Lower	Upper
63	100		
98	5.7	2.9	8.7
100	3.4	1.8	5.5

63 100

98 5.7 2.9 8.7

100 3.4 1.8 5.5

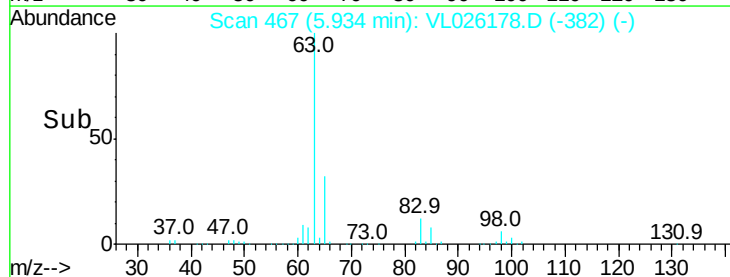


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

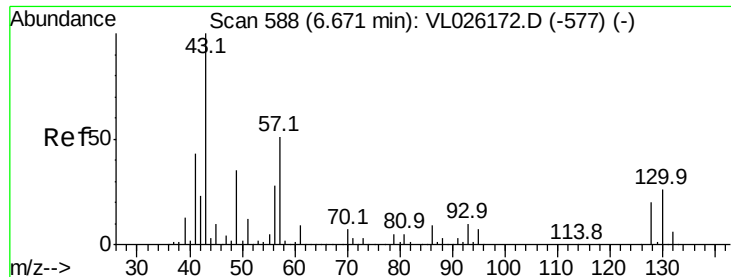
Ion 100.00 (99.70 to 100.70): VL0

Time-->



Time-->

Time-->



#25

Ethyl Acetate

Concen: 13.55 ppbv

RT: 6.70 min Scan# 592

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 3103693

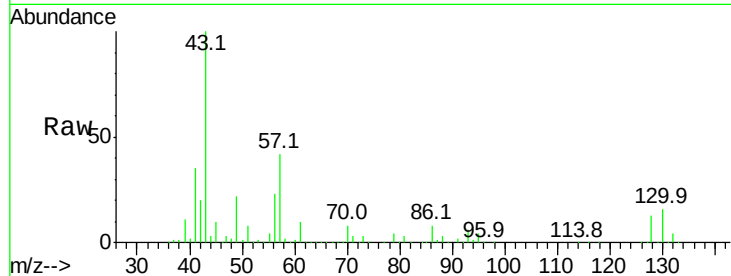
Ion Ratio Lower Upper

43 100

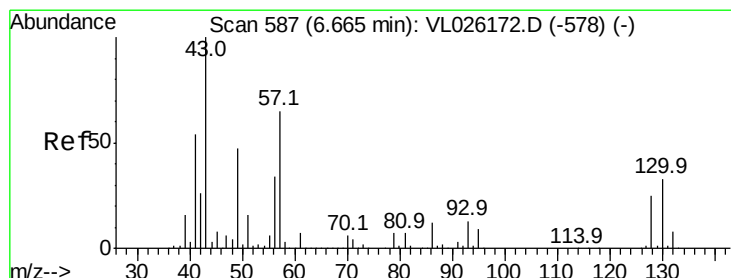
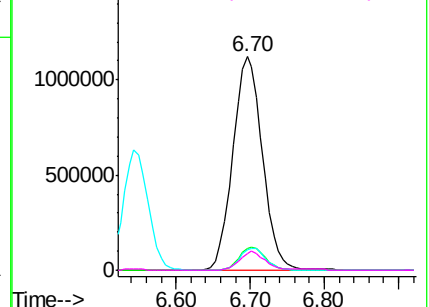
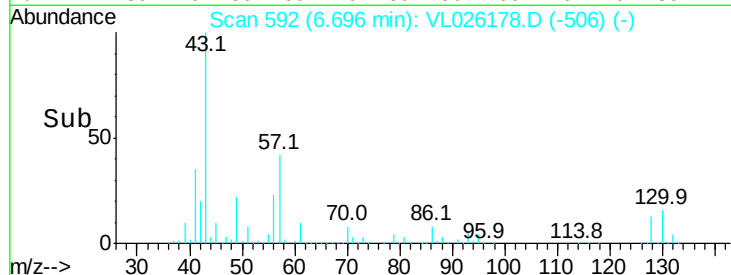
45 9.8 7.7 11.5

61 9.3 7.4 11.2

70 8.3 6.6 9.8



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: 13.66 ppbv

RT: 6.68 min Scan# 590

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Tgt Ion: 57 Resp: 1499638

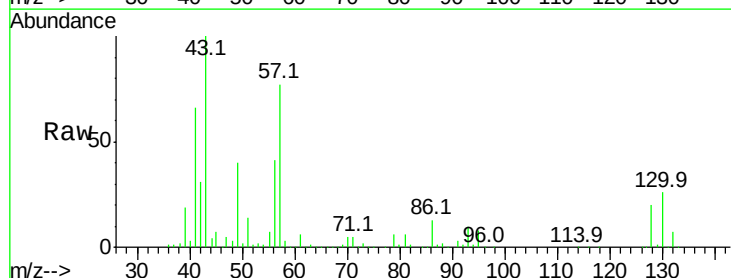
Ion Ratio Lower Upper

57 100

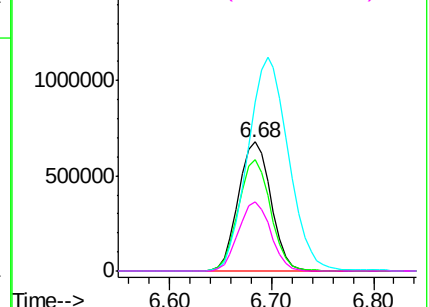
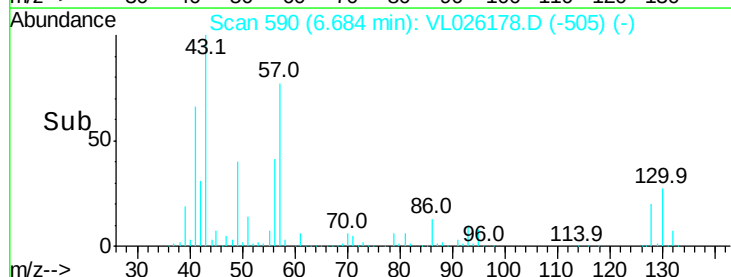
41 86.4 68.0 102.0

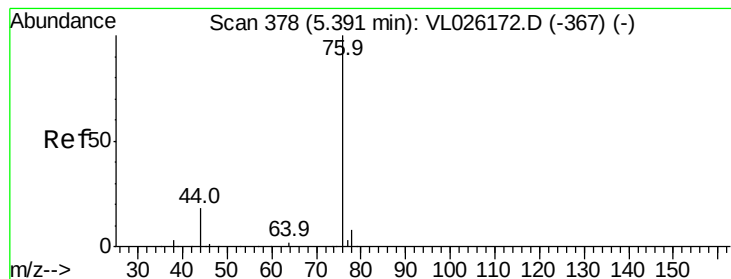
43 208.3 164.4 246.6

56 53.3 42.7 64.1



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 17.59 ppbv

RT: 5.41 min Scan# 381

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

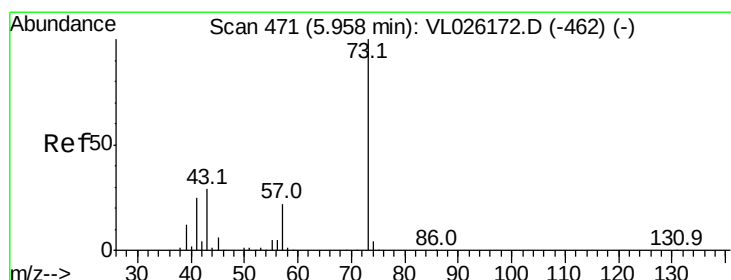
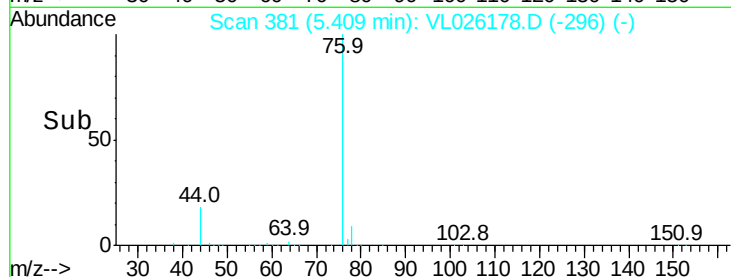
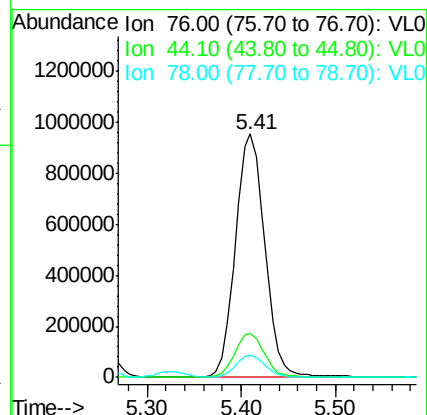
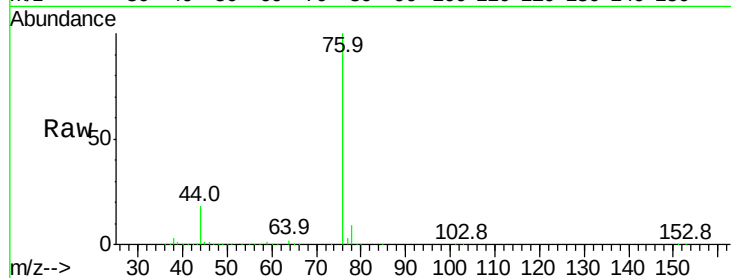
Tgt Ion: 76 Resp: 2067821

Ion Ratio Lower Upper

76 100

44 18.2 14.2 21.4

78 9.3 7.5 11.3



#28

Methyl tert-Butyl Ether

Concen: 15.38 ppbv

RT: 5.98 min Scan# 474

Delta R.T. 0.02 min

Lab File: VL026178.D

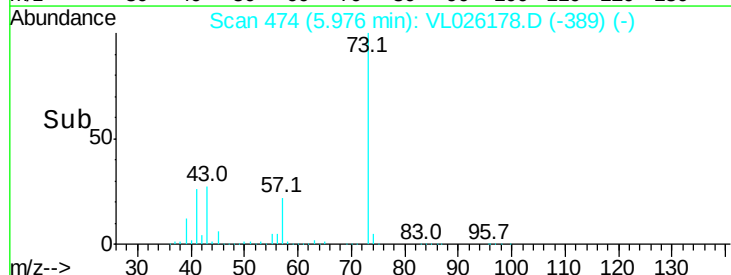
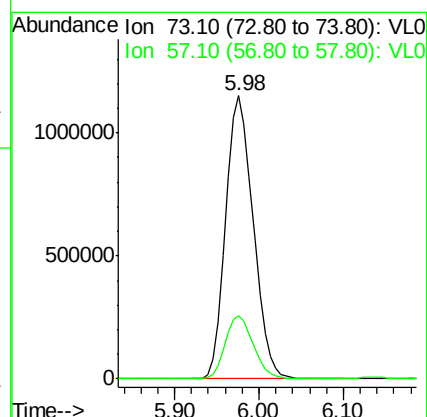
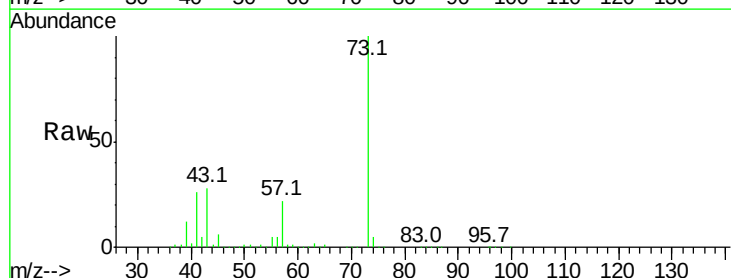
Acq: 9 Oct 2015 14:54

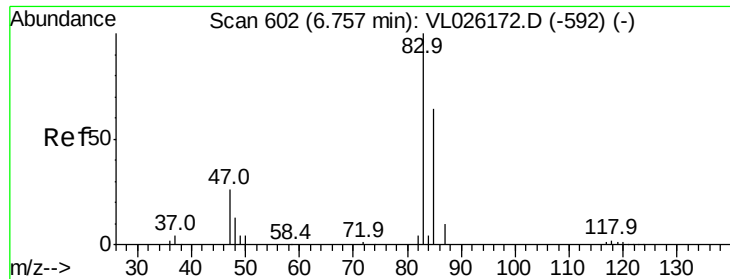
Tgt Ion: 73 Resp: 2569010

Ion Ratio Lower Upper

73 100

57 22.4 17.8 26.6

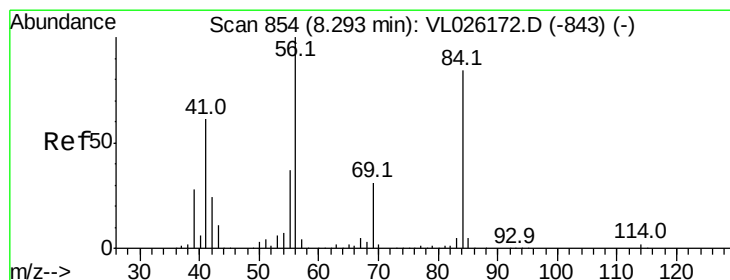
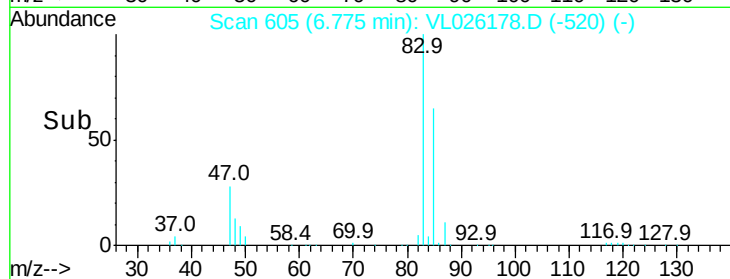
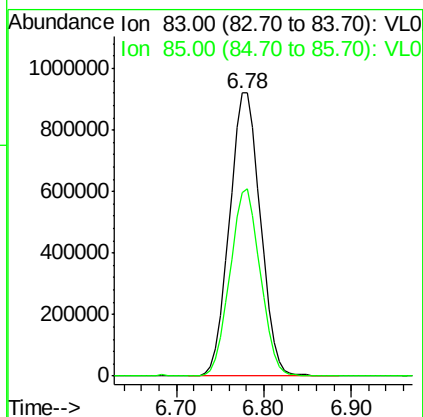
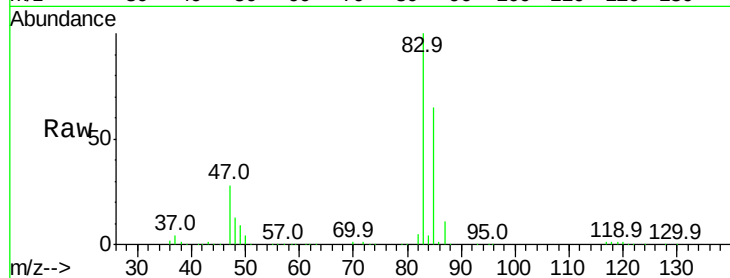




#29
Chloroform
Concen: 14.87 ppbv
RT: 6.78 min Scan# 605
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

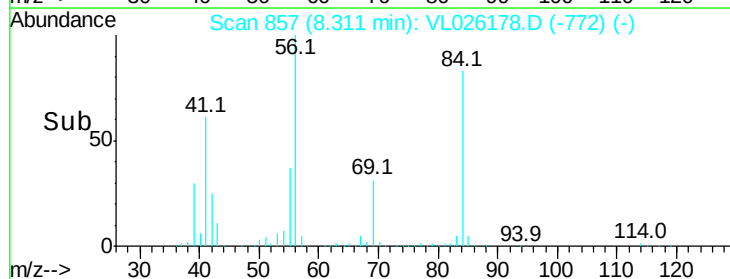
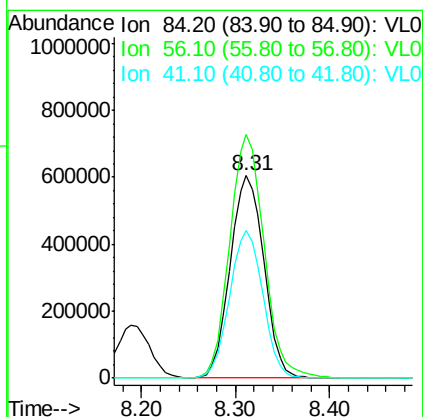
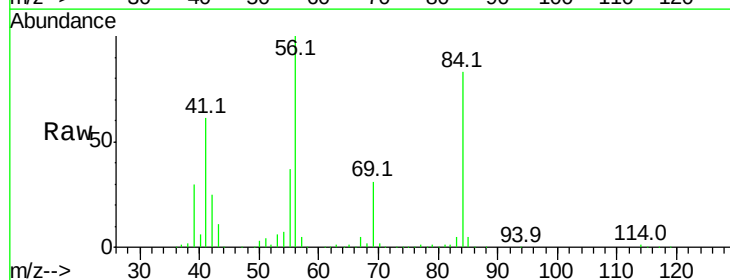
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

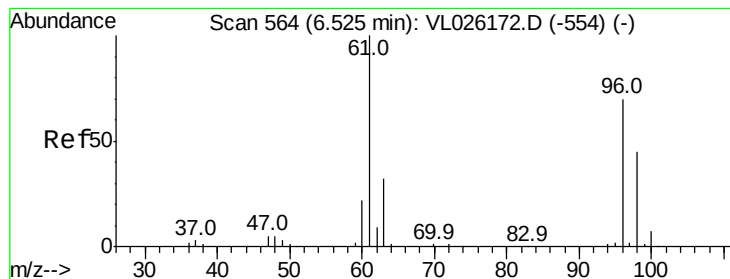
Tgt Ion: 83 Resp: 2266912
Ion Ratio Lower Upper
83 100
85 64.8 51.5 77.3



#30
Cyclohexane
Concen: 14.34 ppbv
RT: 8.31 min Scan# 857
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

Tgt Ion: 84 Resp: 1503812
Ion Ratio Lower Upper
84 100
56 123.5 99.8 149.8
41 72.3 58.1 87.1





#31

cis-1,2-Dichloroethene

Concen: 14.66 ppbv

RT: 6.54 min Scan# 567

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

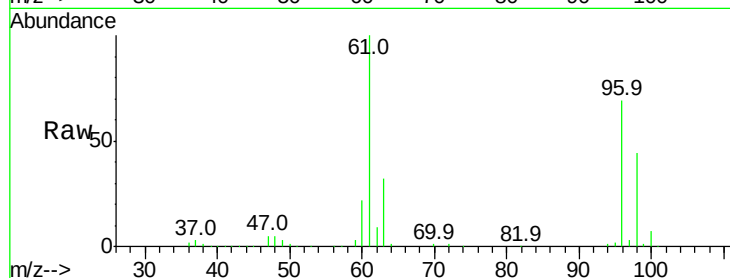
Tgt Ion: 61 Resp: 1471792

Ion Ratio Lower Upper

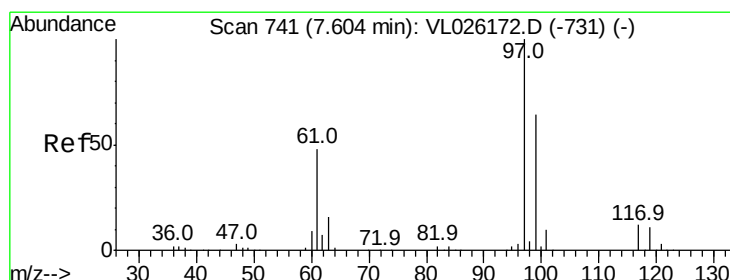
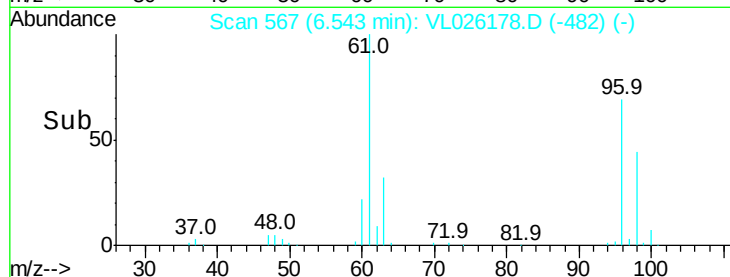
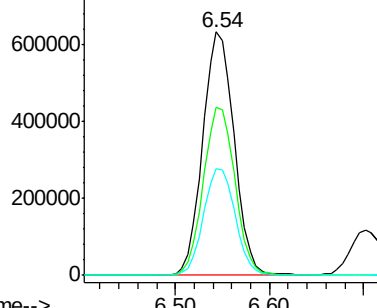
61 100

96 68.9 55.8 83.8

98 43.8 35.8 53.6



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



#32

1,1,1-Trichloroethane

Concen: 14.94 ppbv

RT: 7.63 min Scan# 745

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

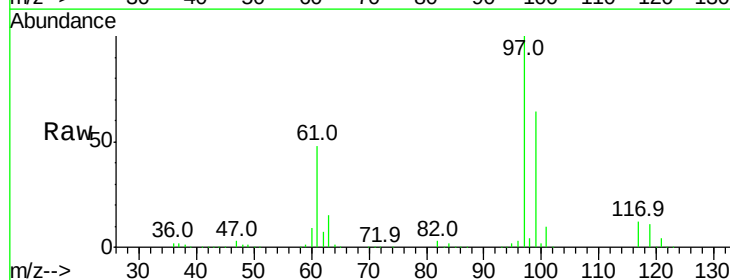
Tgt Ion: 97 Resp: 2278500

Ion Ratio Lower Upper

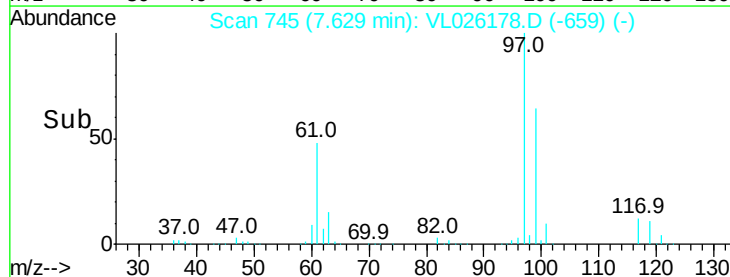
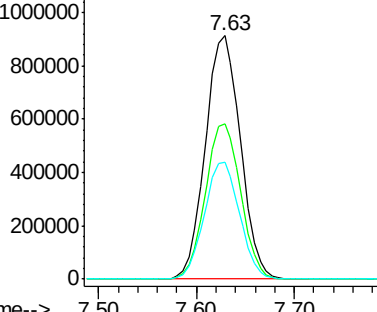
97 100

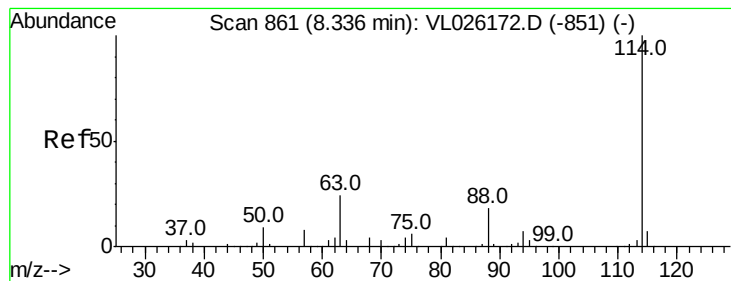
99 64.1 51.3 76.9

61 48.5 38.7 58.1



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





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.36 min Scan# 865

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

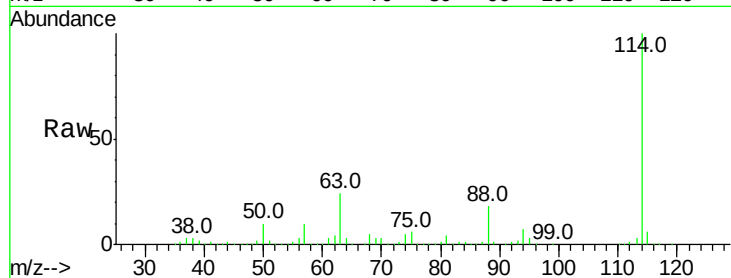
Tgt Ion:114 Resp: 2544728

Ion Ratio Lower Upper

114 100

63 24.1 19.0 28.6

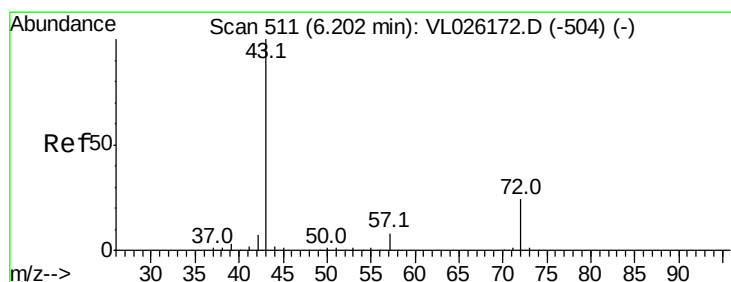
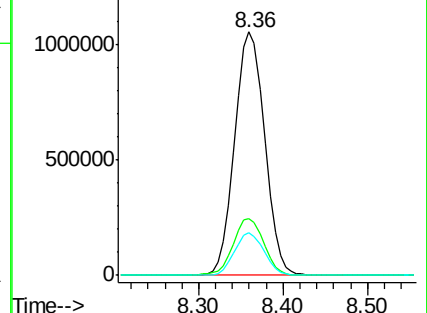
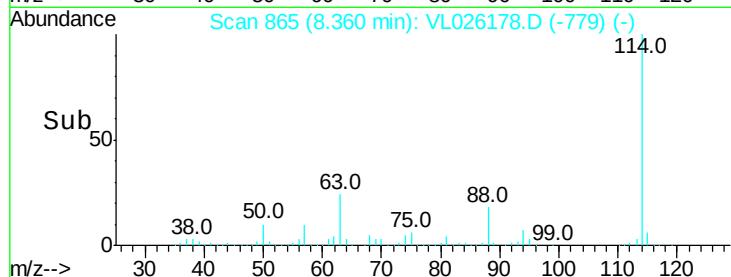
88 17.2 13.8 20.8



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: 12.59 ppbv

RT: 6.23 min Scan# 515

Delta R.T. 0.02 min

Lab File: VL026178.D

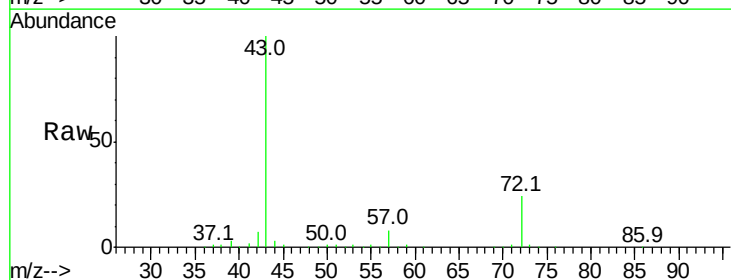
Acq: 9 Oct 2015 14:54

Tgt Ion: 43 Resp: 2056577

Ion Ratio Lower Upper

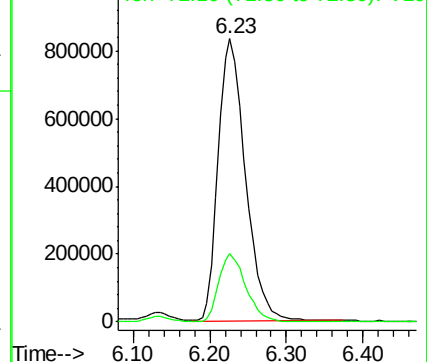
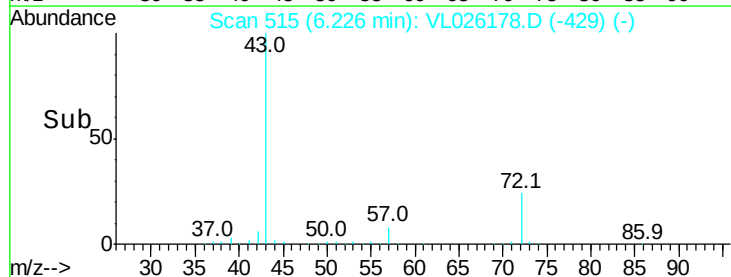
43 100

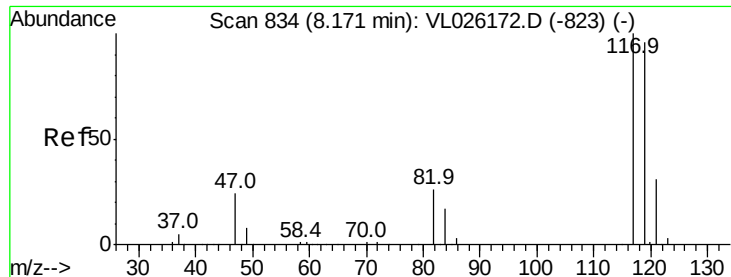
72 24.2 19.6 29.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 13.94 ppbv

RT: 8.19 min Scan# 837

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

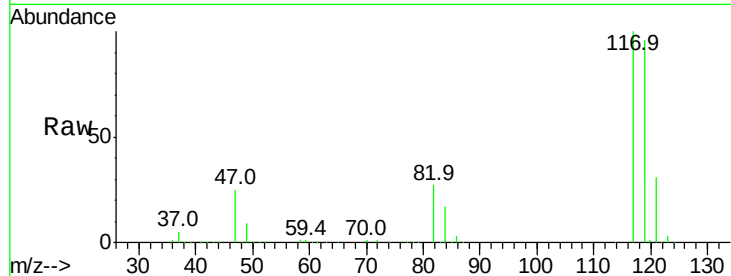
Tgt Ion:117 Resp: 2378248

Ion Ratio Lower Upper

117 100

119 95.7 76.6 115.0

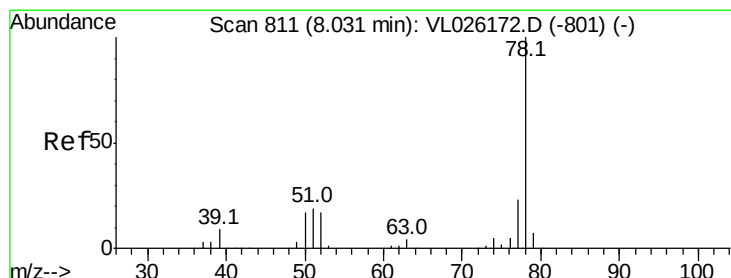
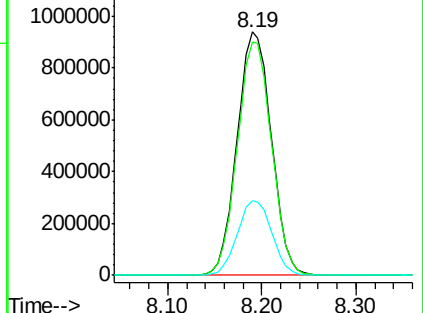
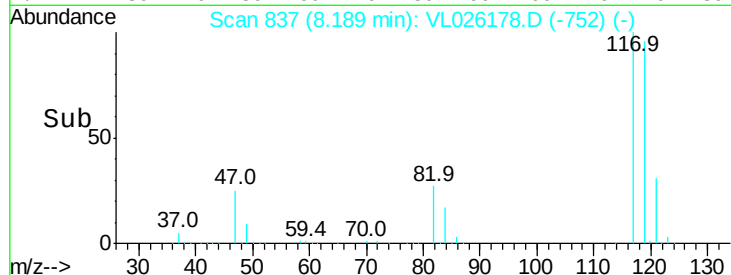
121 30.8 25.0 37.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 12.57 ppbv

RT: 8.06 min Scan# 815

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

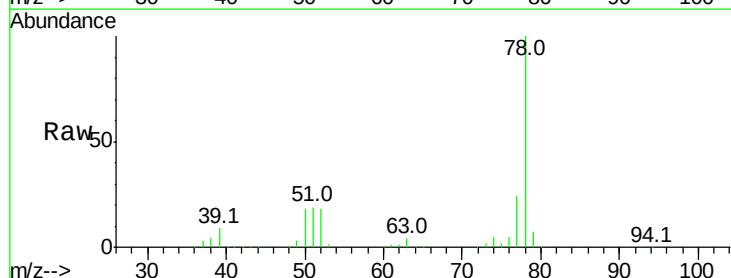
Tgt Ion: 78 Resp: 3382130

Ion Ratio Lower Upper

78 100

77 23.9 18.2 27.4

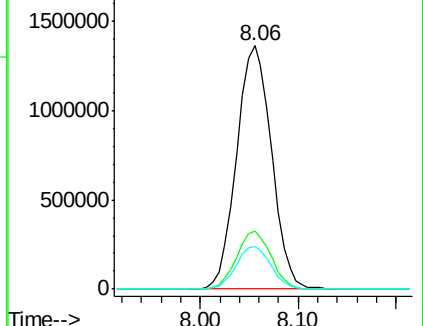
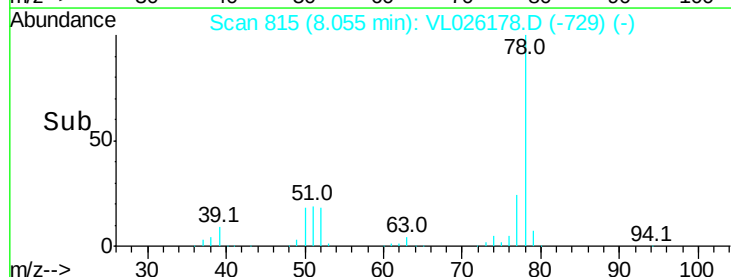
50 17.6 13.4 20.2

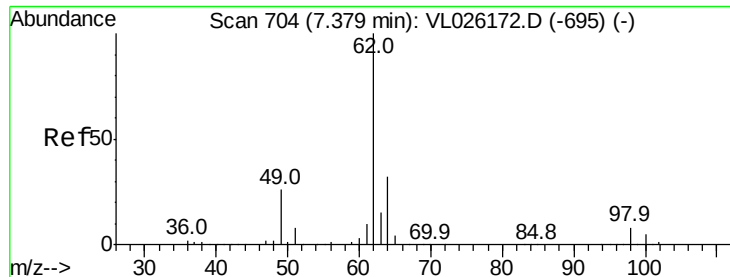


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

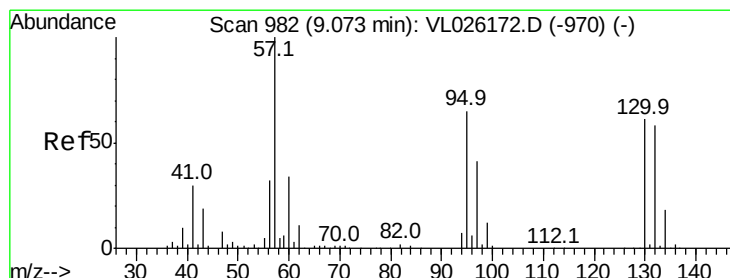
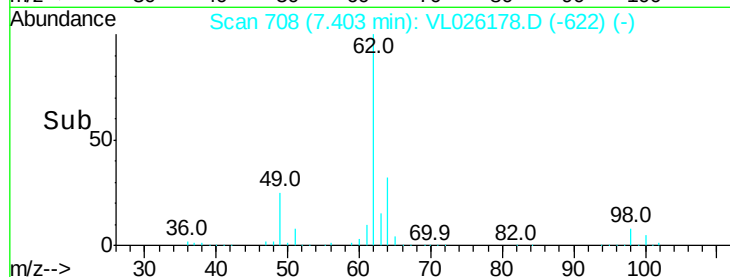
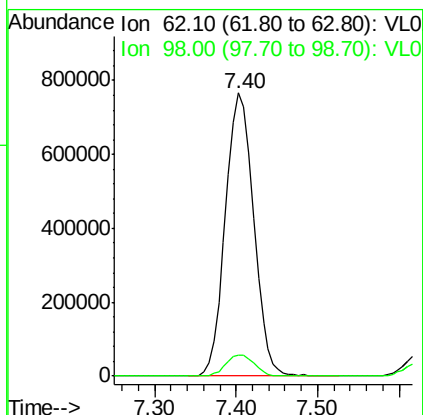
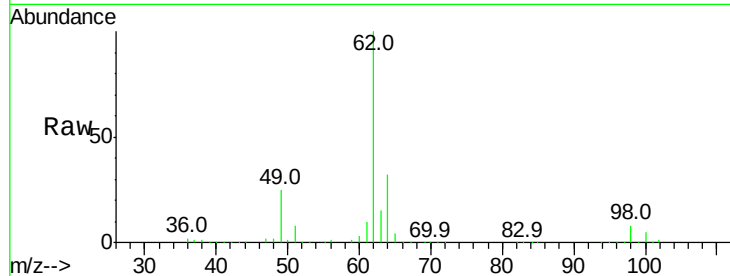




#37
 1,2-Dichloroethane
 Concen: 13.70 ppbv
 RT: 7.40 min Scan# 708
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

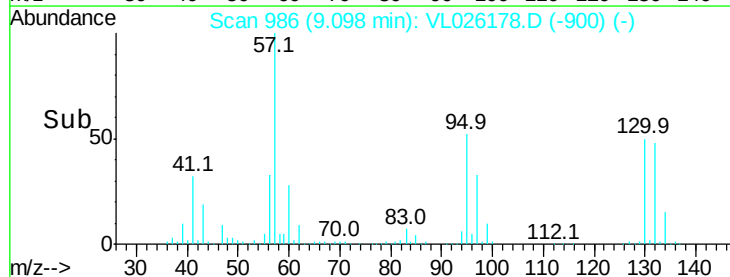
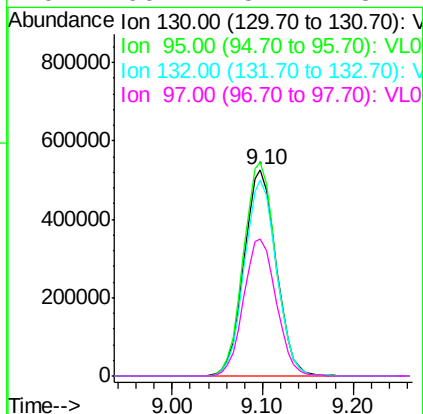
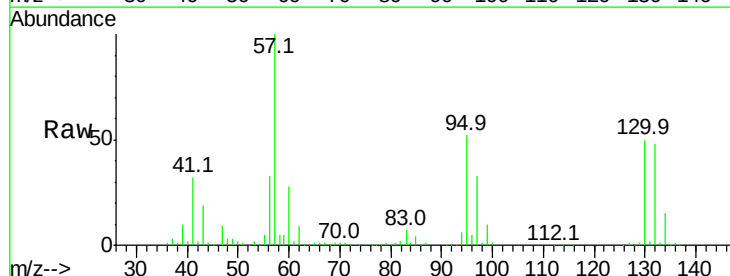
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

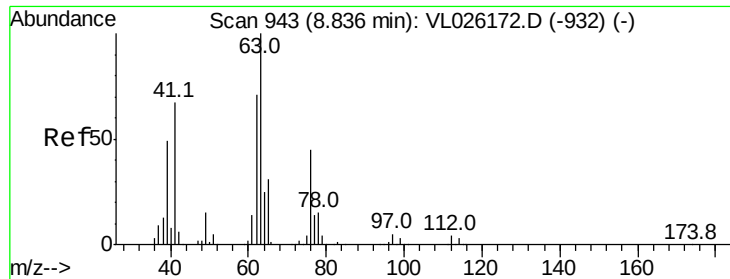
Tgt Ion: 62 Resp: 1840881
 Ion Ratio Lower Upper
 62 100
 98 7.6 6.2 9.2



#38
 Trichloroethene
 Concen: 10.98 ppbv
 RT: 9.10 min Scan# 986
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

Tgt Ion:130 Resp: 1291783
 Ion Ratio Lower Upper
 130 100
 95 103.4 84.9 127.3
 132 95.0 76.8 115.2
 97 66.4 54.1 81.1





#39

1,2-Dichloropropane

Concen: 12.37 ppbv

RT: 8.86 min Scan# 947

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

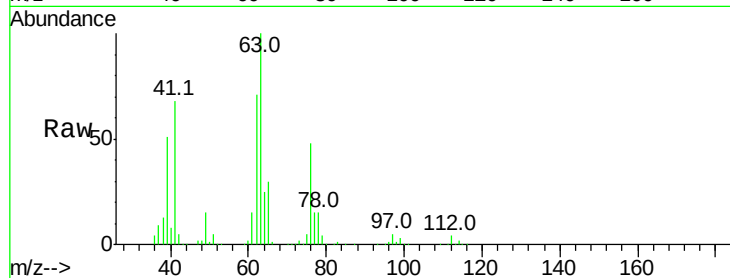
Tgt Ion: 63 Resp: 1249435

Ion Ratio Lower Upper

63 100

41 67.7 53.9 80.9

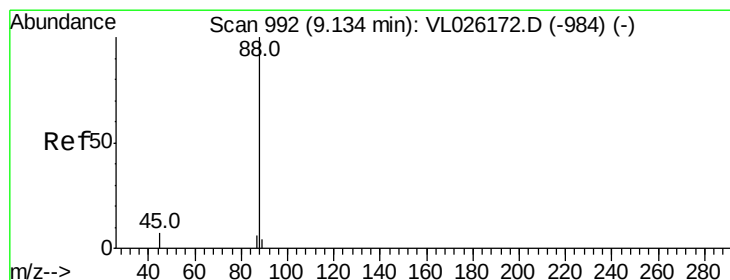
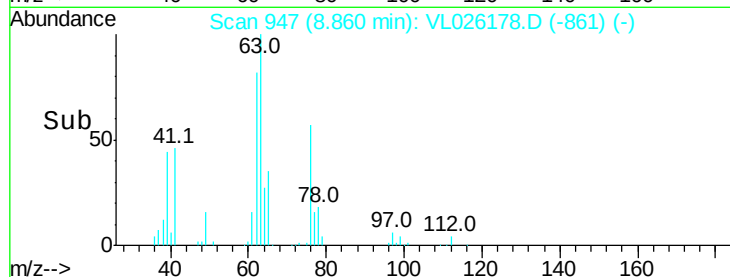
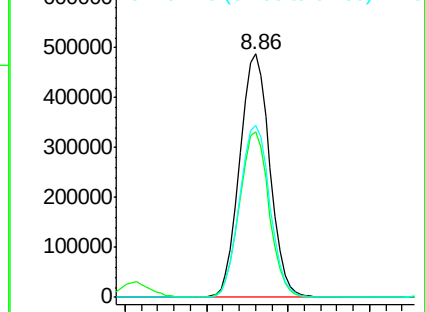
62 70.8 57.1 85.7



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



#40

1,4-Dioxane

Concen: 19.85 ppbv

RT: 9.15 min Scan# 994

Delta R.T. 0.01 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Tgt Ion: 88 Resp: 293498

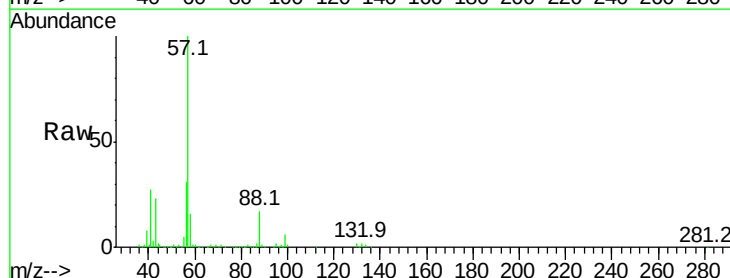
Ion Ratio Lower Upper

88 100

58 154.1 178.4 267.6#

43 366.4 510.2 765.4#

57 1752.0 2564.2 3846.4#

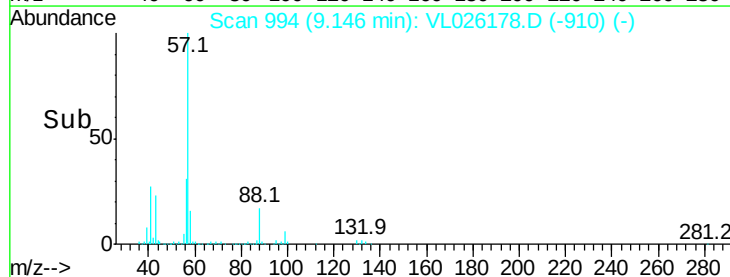
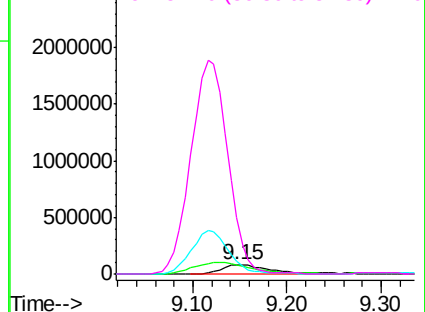


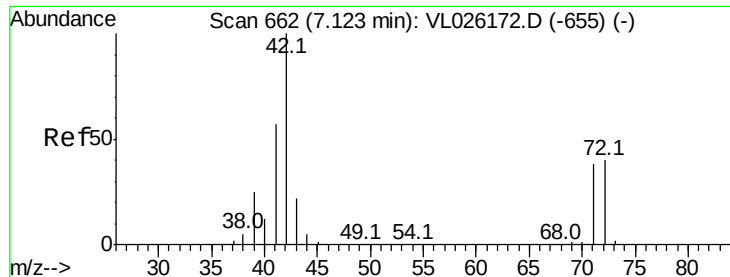
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 12.73 ppbv

RT: 7.15 min Scan# 666

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

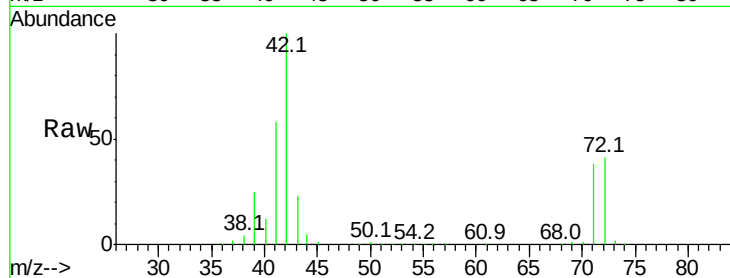
Tgt Ion: 42 Resp: 1218545

Ion Ratio Lower Upper

42 100

72 40.2 32.4 48.6

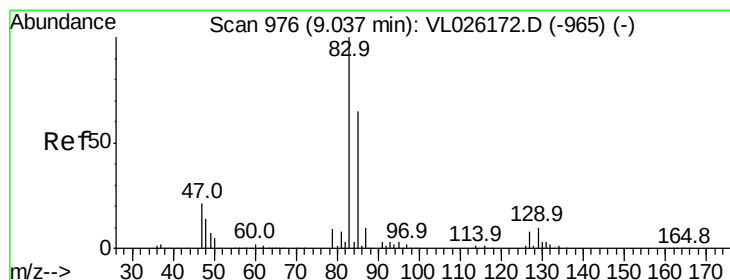
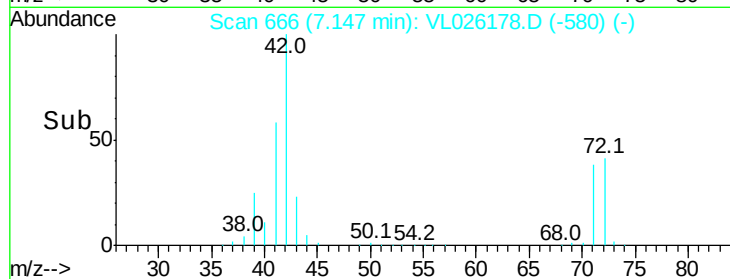
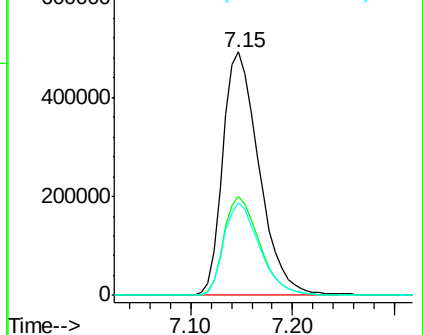
71 37.6 30.2 45.4



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: 13.94 ppbv

RT: 9.06 min Scan# 979

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

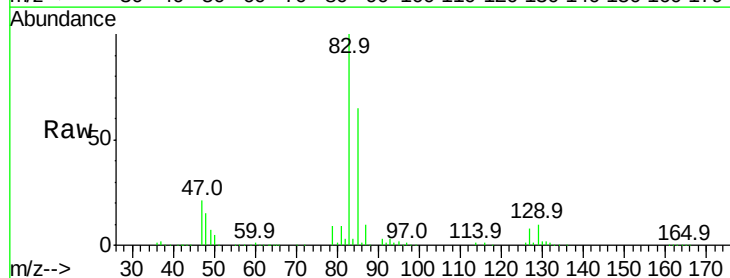
Tgt Ion: 83 Resp: 2468439

Ion Ratio Lower Upper

83 100

85 64.5 51.9 77.9

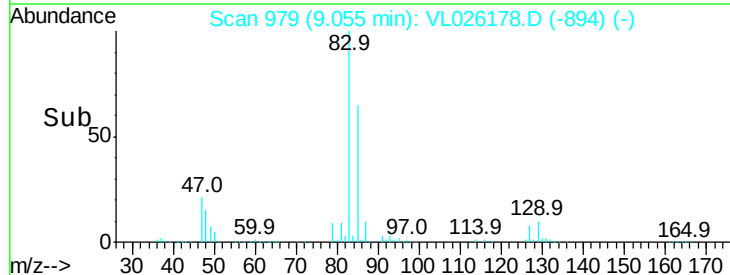
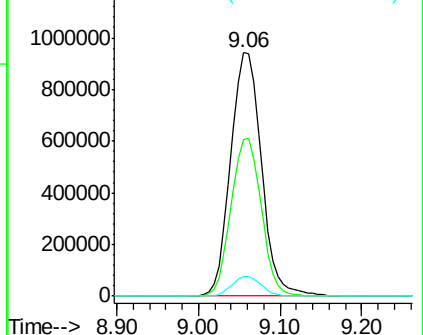
127 7.8 6.2 9.4

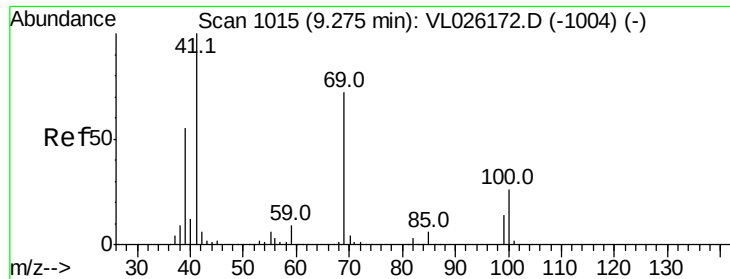


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

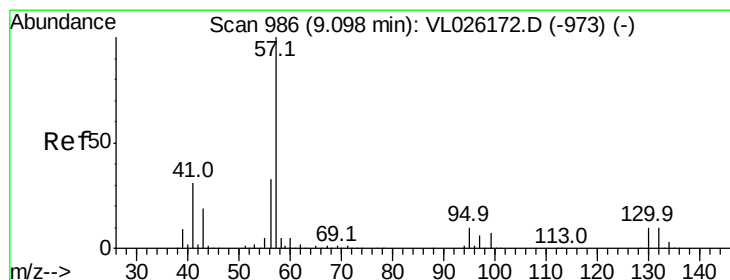
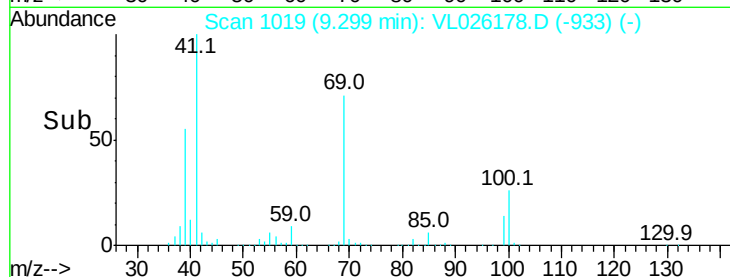
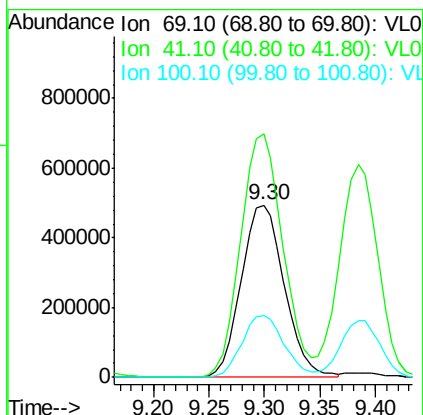
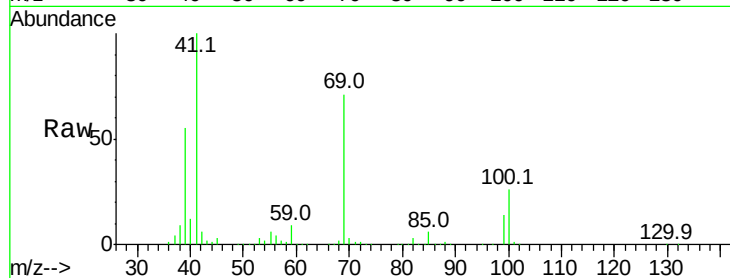




#43
Methyl Methacrylate
Concen: 13.91 ppbv
RT: 9.30 min Scan# 1019
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

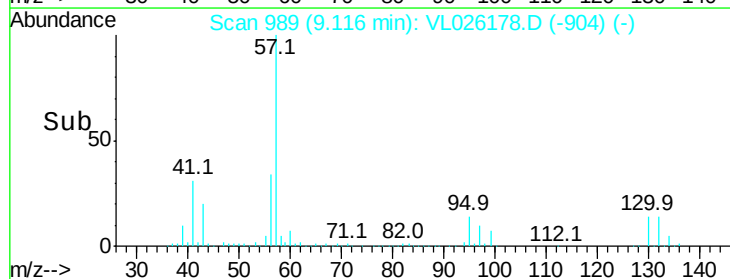
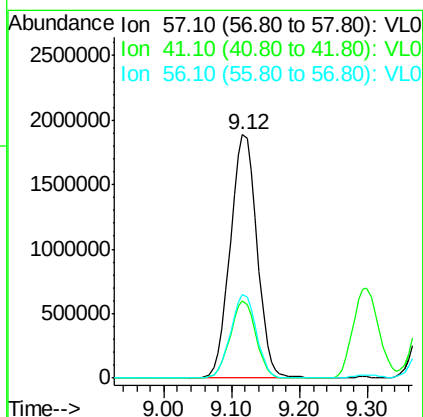
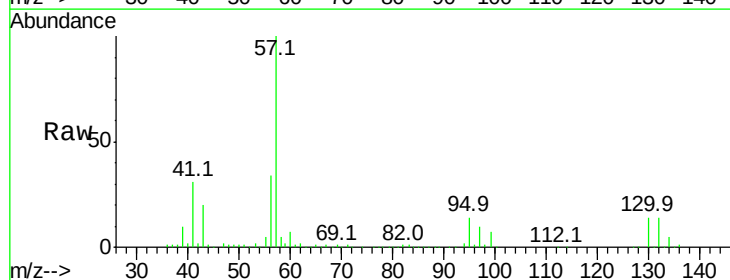
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

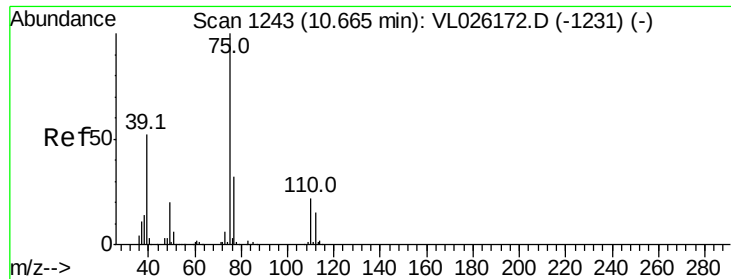
Tgt Ion: 69 Resp: 1329006
Ion Ratio Lower Upper
69 100
41 140.0 111.5 167.3
100 35.5 28.4 42.6



#44
2,2,4-Trimethylpentane
Concen: 11.29 ppbv
RT: 9.12 min Scan# 989
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

Tgt Ion: 57 Resp: 5144805
Ion Ratio Lower Upper
57 100
41 30.4 23.7 35.5
56 33.1 26.4 39.6

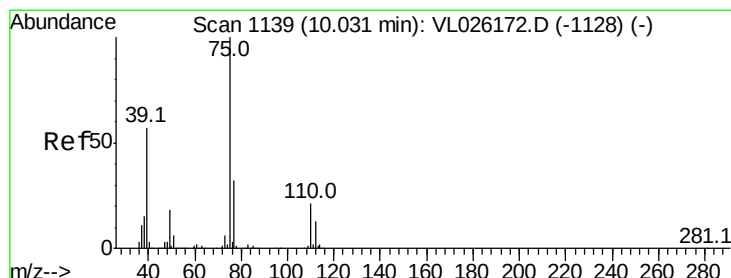
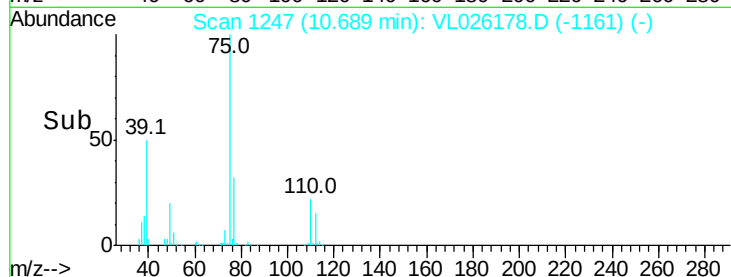
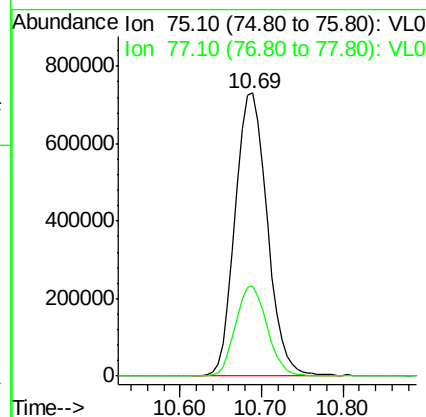
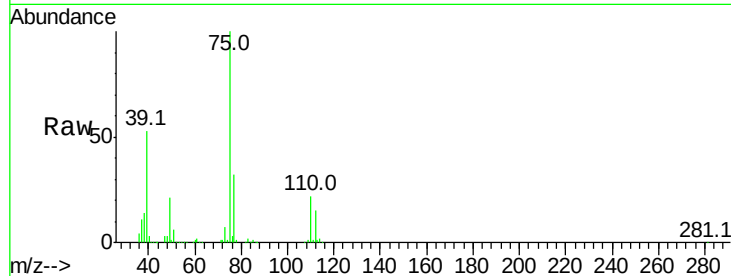




#45
 t-1,3-Dichloropropene
 Concen: 15.98 ppbv
 RT: 10.69 min Scan# 1247
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

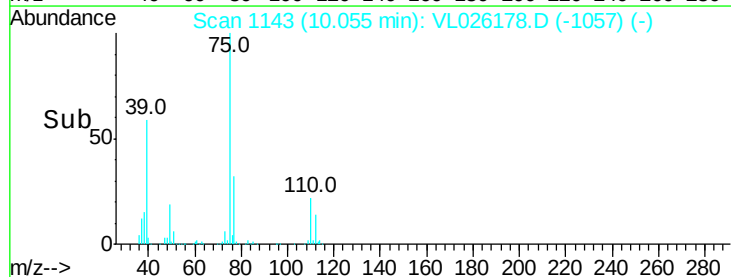
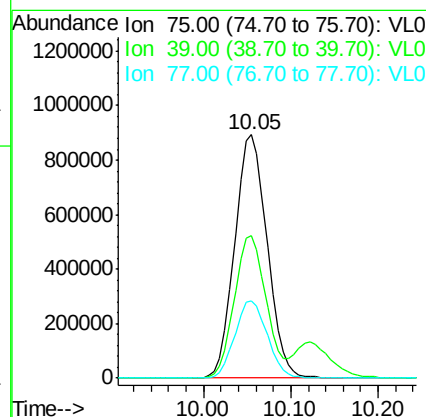
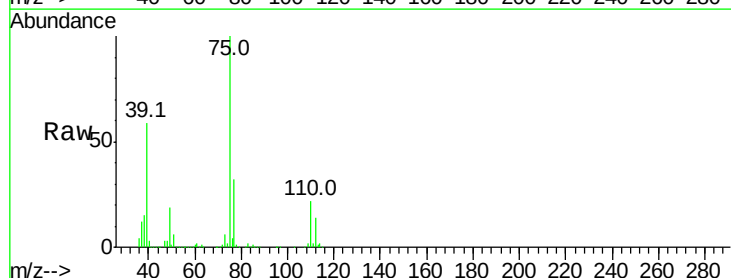
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

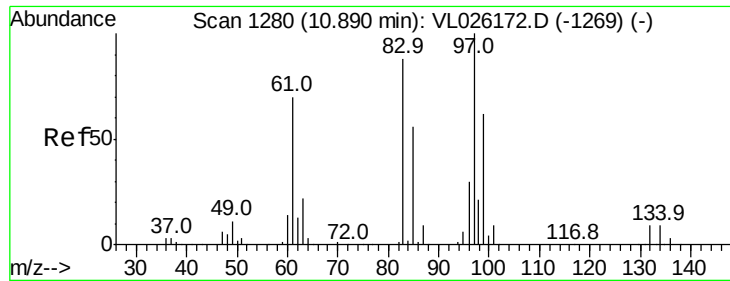
Tgt Ion: 75 Resp: 1998873
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.5 38.3



#46
 cis-1,3-Dichloropropene
 Concen: 14.86 ppbv
 RT: 10.05 min Scan# 1143
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

Tgt Ion: 75 Resp: 2304202
 Ion Ratio Lower Upper
 75 100
 39 58.6 45.4 68.2
 77 31.8 25.4 38.2



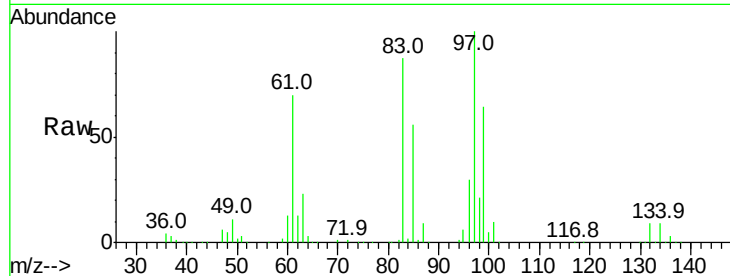


#47
 1,1,2-Trichloroethane
 Concen: 13.13 ppbv
 RT: 10.91 min Scan# 1284
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

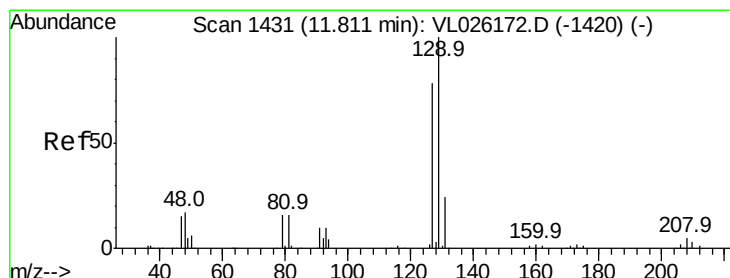
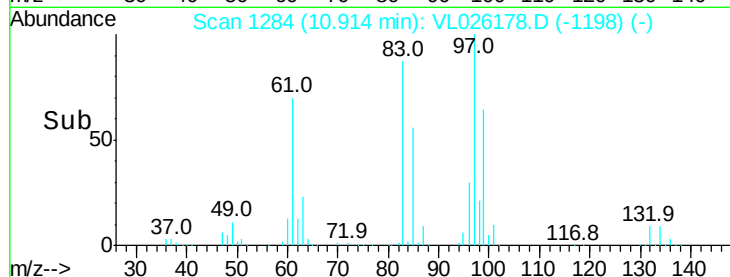
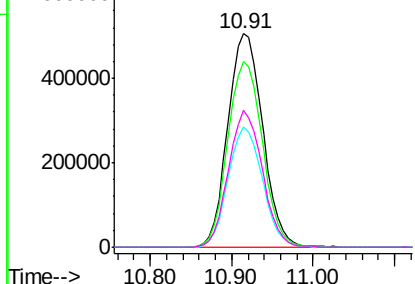
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 97 Resp: 1503868

Ion	Ratio	Lower	Upper
97	100		
83	86.8	70.6	106.0
85	56.3	45.1	67.7
99	64.0	49.9	74.9



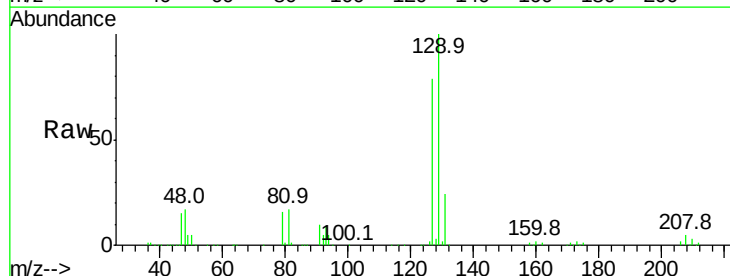
Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0



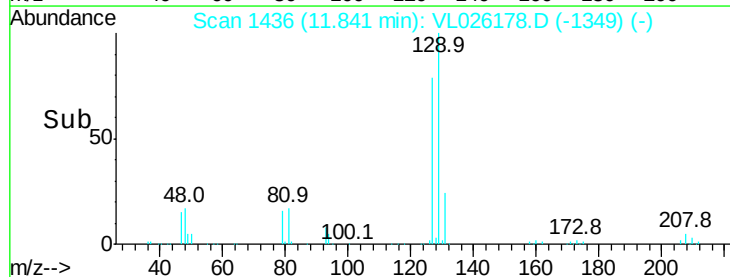
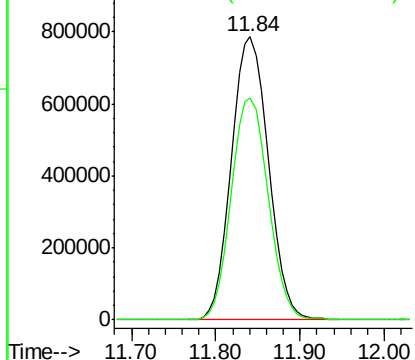
#48
 Dibromochloromethane
 Concen: 15.15 ppbv
 RT: 11.84 min Scan# 1436
 Delta R.T. 0.03 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

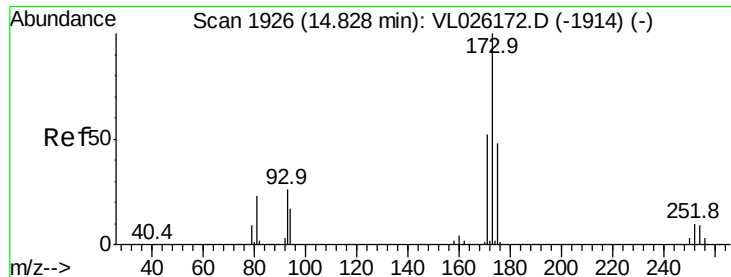
Tgt Ion: 129 Resp: 2349991

Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.0	117.0



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 16.44 ppbv

RT: 14.86 min Scan# 1931

Delta R.T. 0.03 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

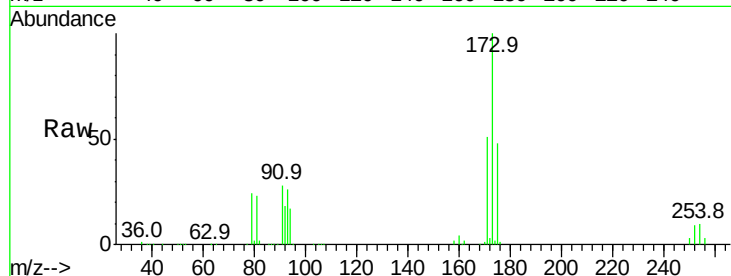
Tgt Ion:173 Resp: 1891874

Ion Ratio Lower Upper

173 100

175 48.7 39.0 58.6

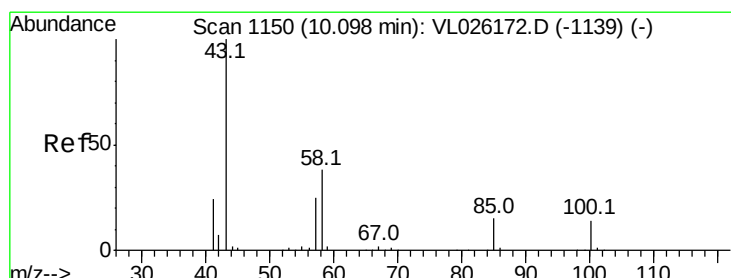
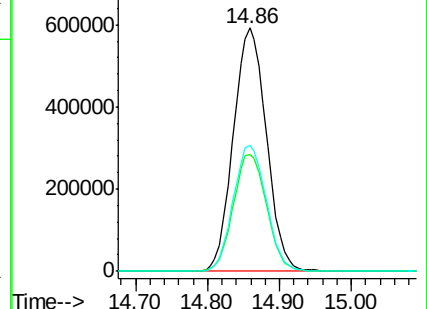
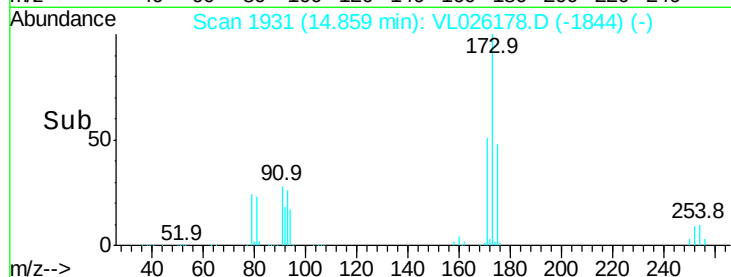
171 51.8 41.9 62.9



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 12.99 ppbv

RT: 10.12 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VL026178.D

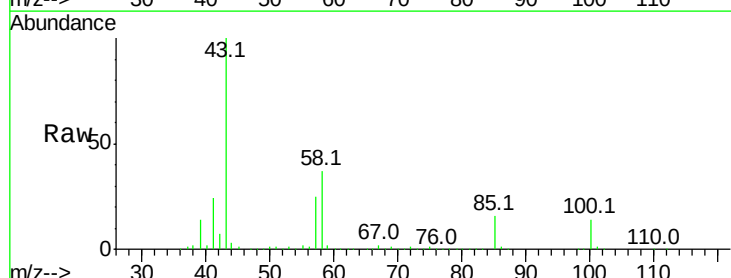
Acq: 9 Oct 2015 14:54

Tgt Ion: 43 Resp: 2841649

Ion Ratio Lower Upper

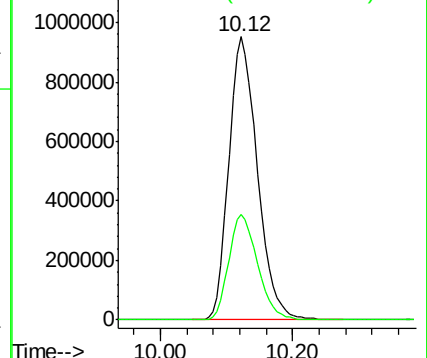
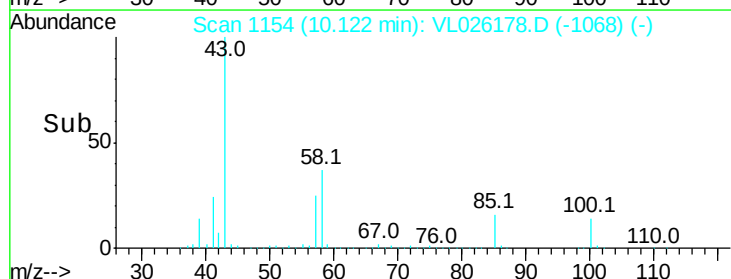
43 100

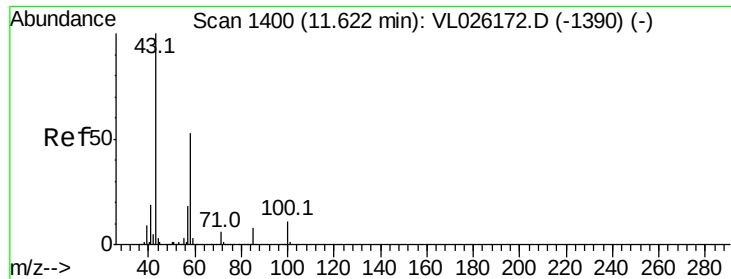
58 37.9 30.4 45.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 13.52 ppbv

RT: 11.65 min Scan# 1405

Delta R.T. 0.03 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

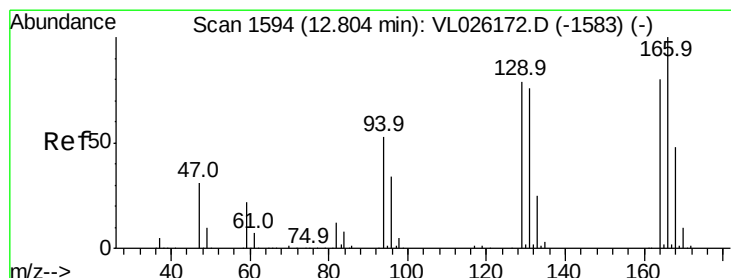
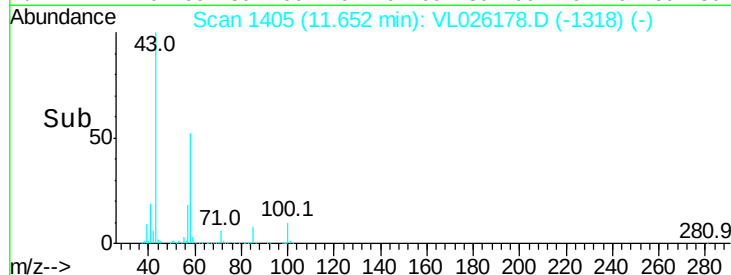
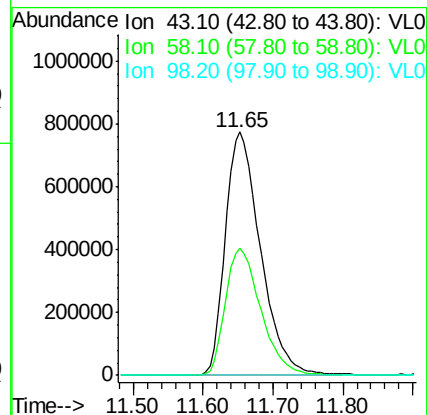
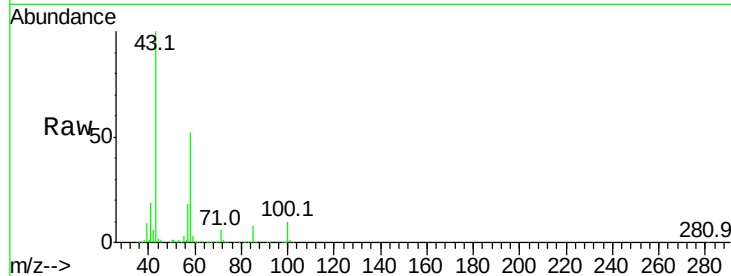
Tgt Ion: 43 Resp: 2710265

Ion Ratio Lower Upper

43 100

58 52.7 42.2 63.4

98 0.2 0.2 0.2#



#52

Tetrachloroethene

Concen: 11.59 ppbv

RT: 12.83 min Scan# 1598

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Tgt Ion: 164 Resp: 1417462

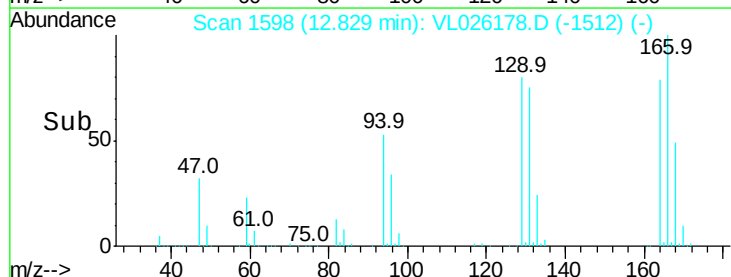
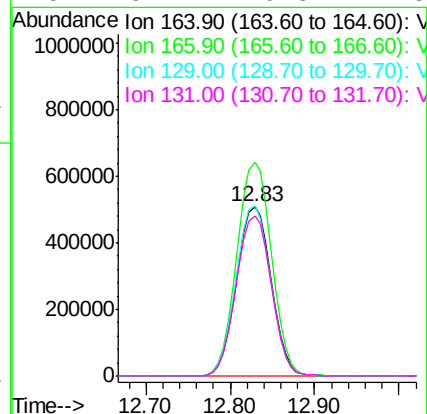
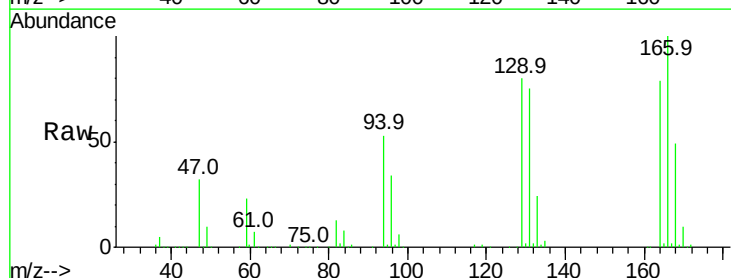
Ion Ratio Lower Upper

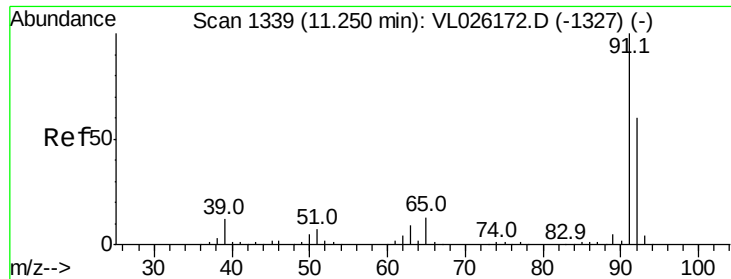
164 100

166 126.2 99.9 149.9

129 100.6 79.1 118.7

131 94.4 76.3 114.5





#53

Toluene

Concen: 12.97 ppbv

RT: 11.27 min Scan# 1343

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

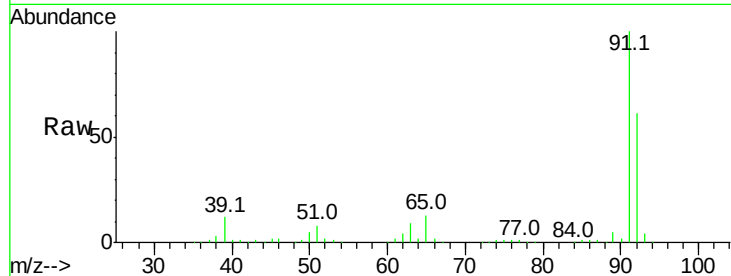
VSTDIC015

Tgt Ion: 91 Resp: 4408546

Ion Ratio Lower Upper

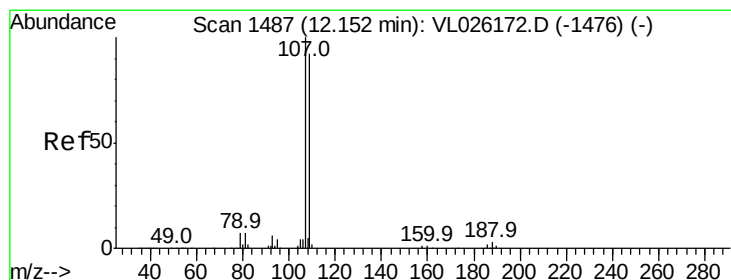
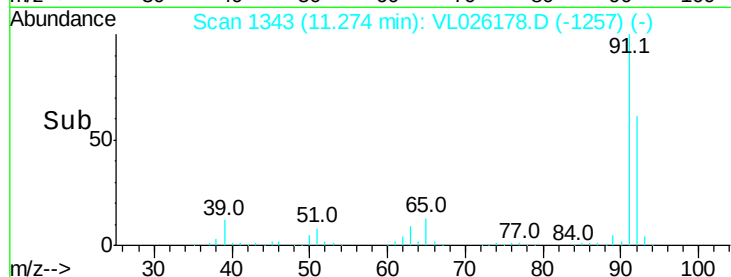
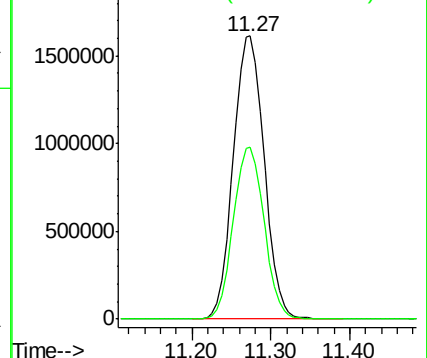
91 100

92 60.7 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 13.42 ppbv

RT: 12.18 min Scan# 1492

Delta R.T. 0.03 min

Lab File: VL026178.D

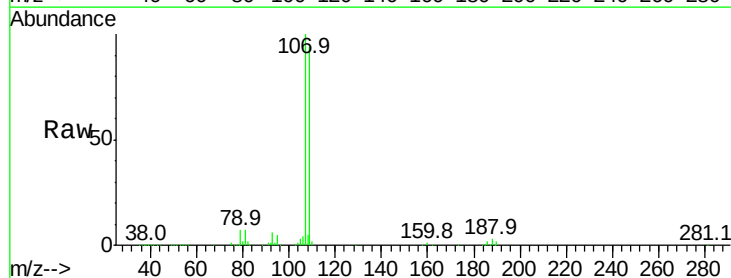
Acq: 9 Oct 2015 14:54

Tgt Ion: 107 Resp: 2291746

Ion Ratio Lower Upper

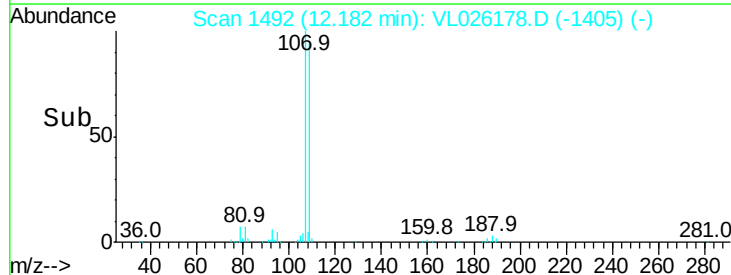
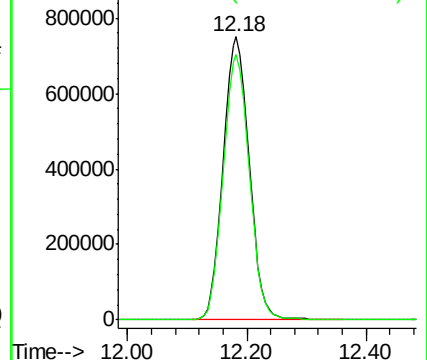
107 100

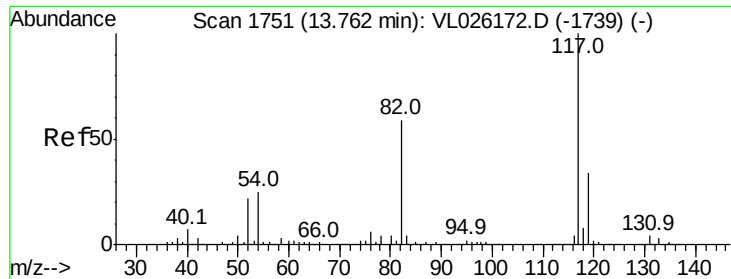
109 93.8 73.2 109.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

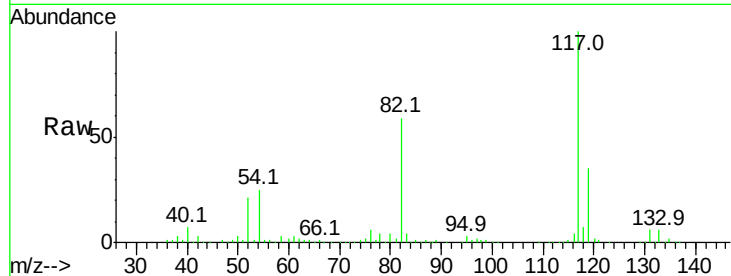




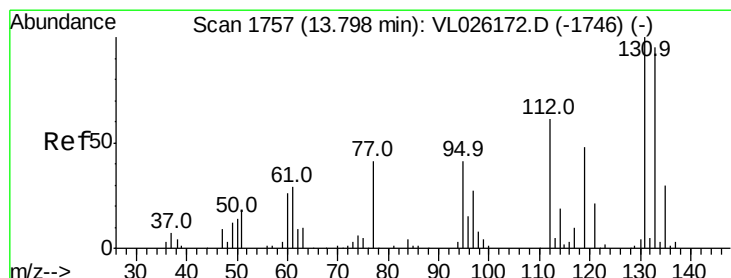
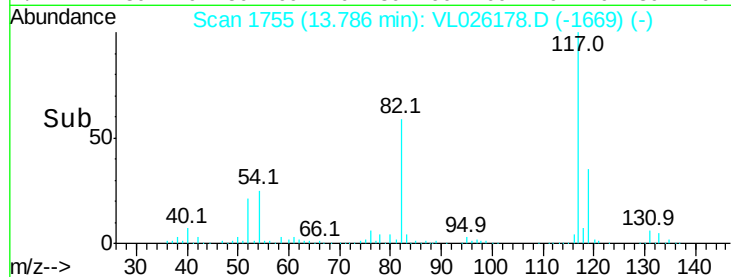
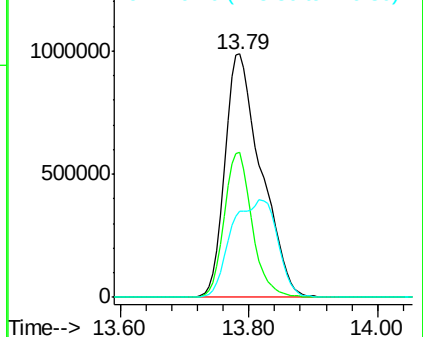
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.79 min Scan# 1755
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:117 Resp: 3887318
Ion Ratio Lower Upper
117 100
82 46.5 47.7 71.5#
119 50.6 43.7 65.5

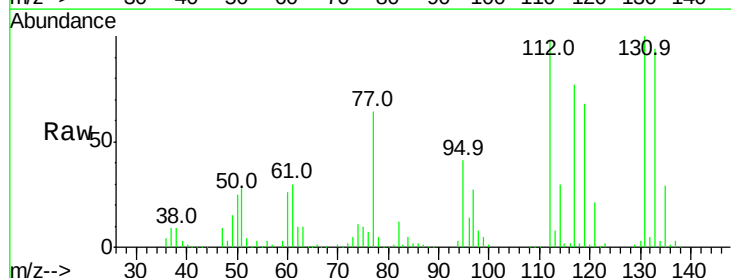


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

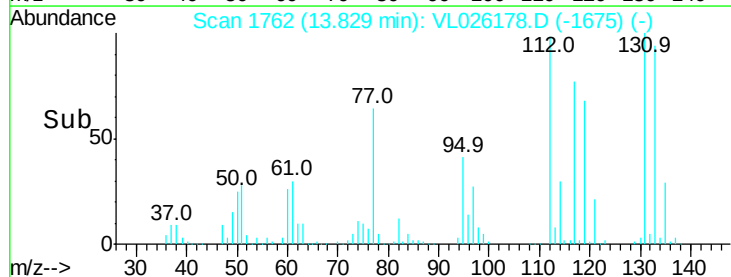
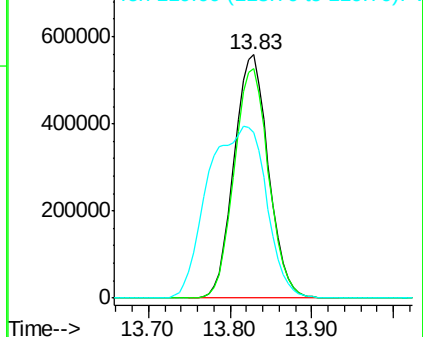


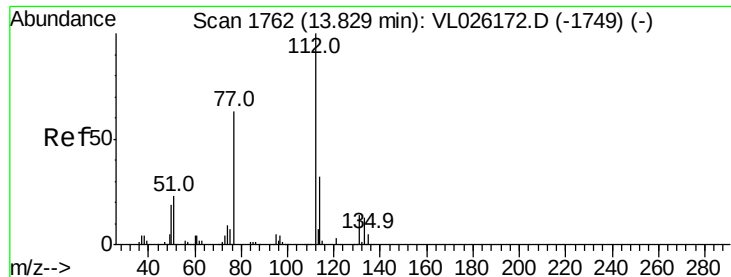
#56
1,1,1,2-Tetrachloroethane
Concen: 10.13 ppbv
RT: 13.83 min Scan# 1762
Delta R.T. 0.03 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

Tgt Ion:131 Resp: 1632854
Ion Ratio Lower Upper
131 100
133 95.2 76.5 114.7
119 120.6 116.0 174.0



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V

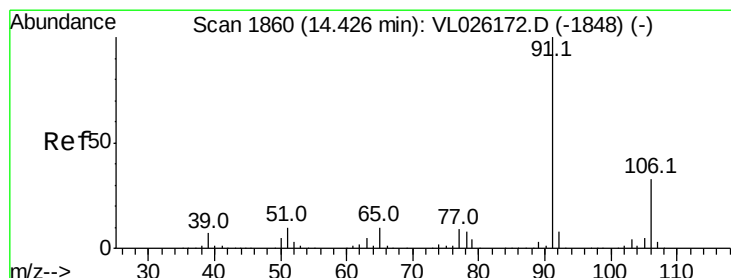
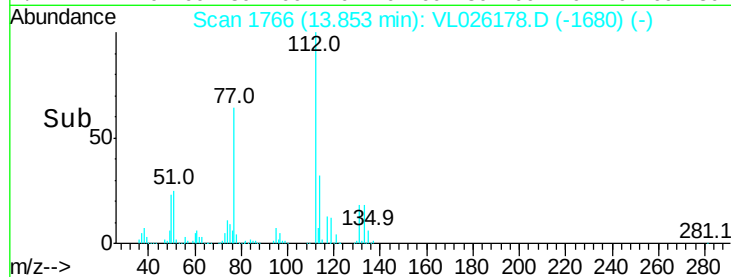
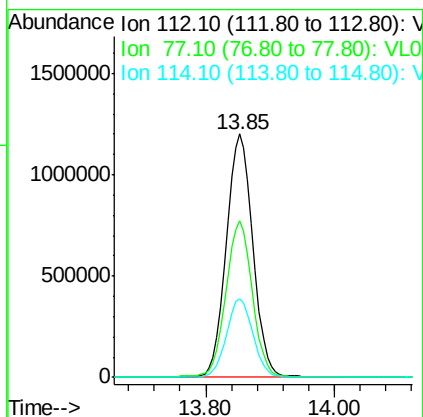
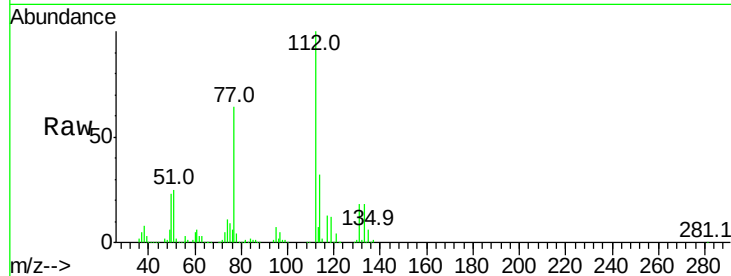




#57
Chlorobenzene
Concen: 9.07 ppbv
RT: 13.85 min Scan# 1766
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

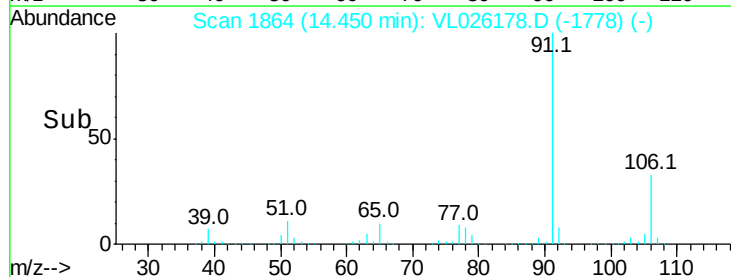
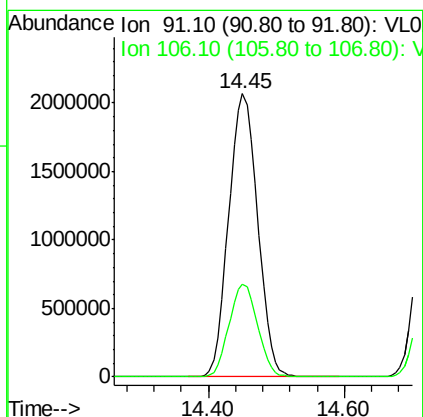
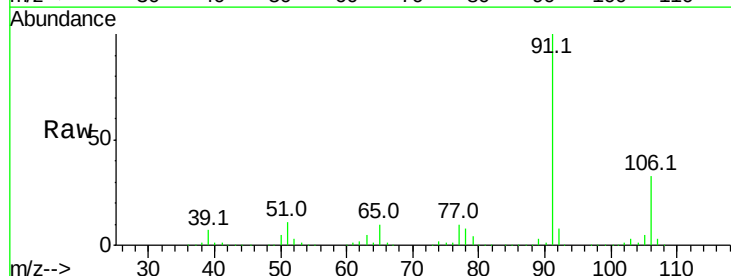
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

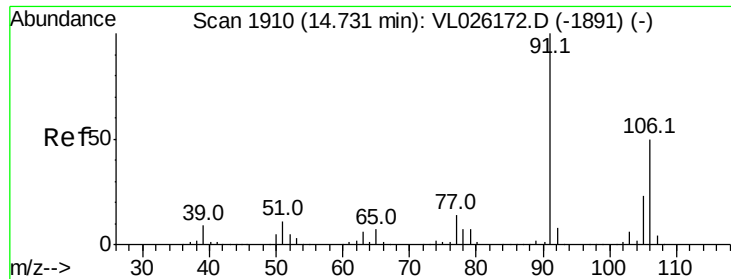
Tgt Ion: 112 Resp: 3483097
Ion Ratio Lower Upper
112 100
77 64.3 51.0 76.4
114 32.4 29.0 35.4



#58
Ethyl Benzene
Concen: 9.48 ppbv
RT: 14.45 min Scan# 1864
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

Tgt Ion: 91 Resp: 6118428
Ion Ratio Lower Upper
91 100
106 32.8 26.1 39.1

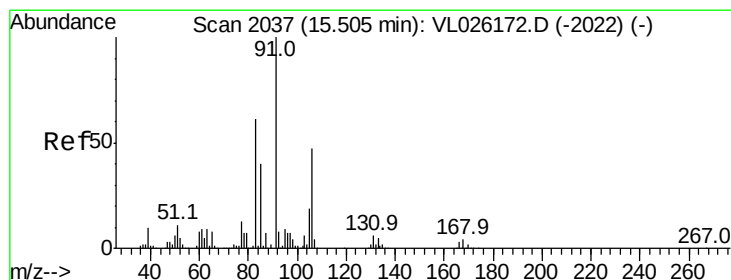
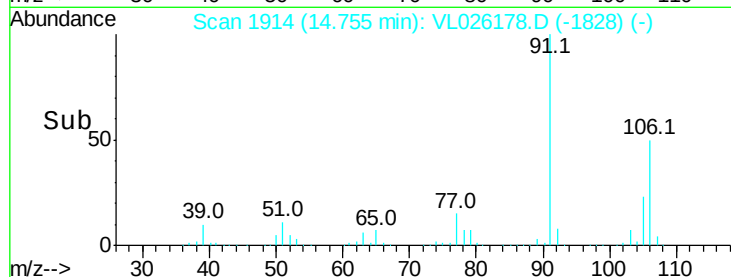
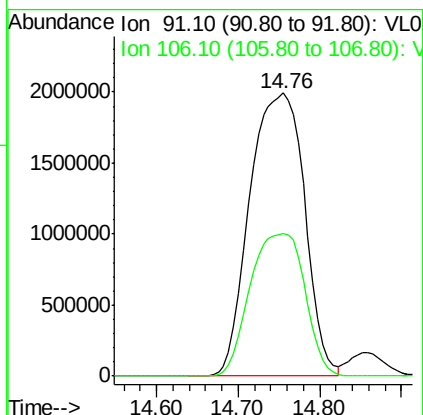
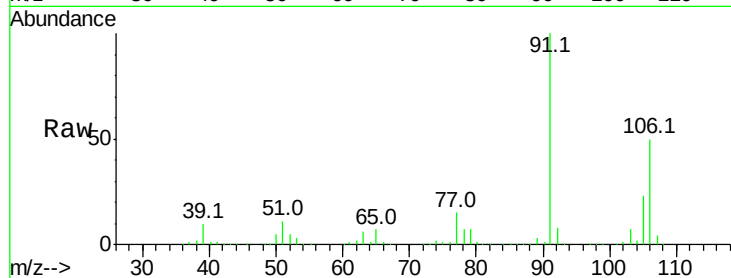




#59
m/p-Xylene
Concen: 18.32 ppbv
RT: 14.76 min Scan# 1914
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

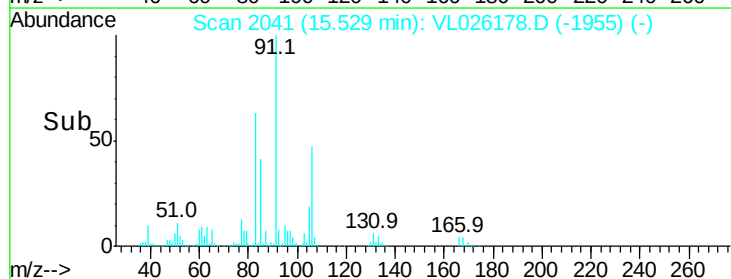
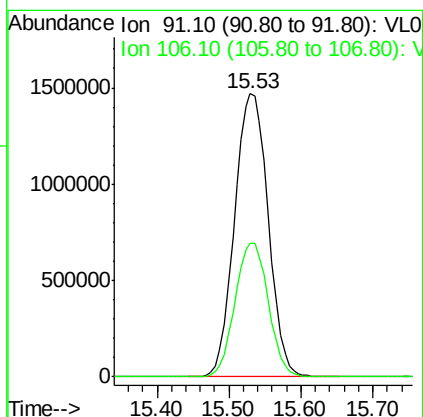
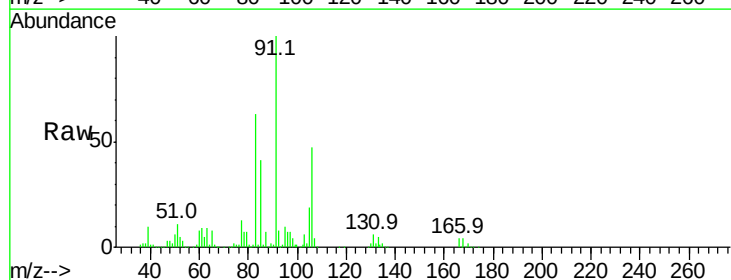
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

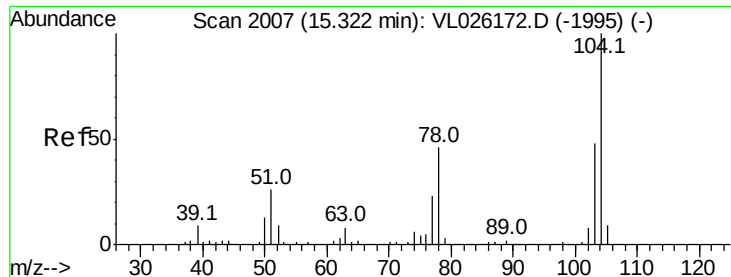
Tgt Ion: 91 Resp: 9297636
Ion Ratio Lower Upper
91 100
106 50.6 40.2 60.4



#60
o-Xylene
Concen: 9.03 ppbv
RT: 15.53 min Scan# 2041
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

Tgt Ion: 91 Resp: 4755170
Ion Ratio Lower Upper
91 100
106 47.0 23.4 70.3

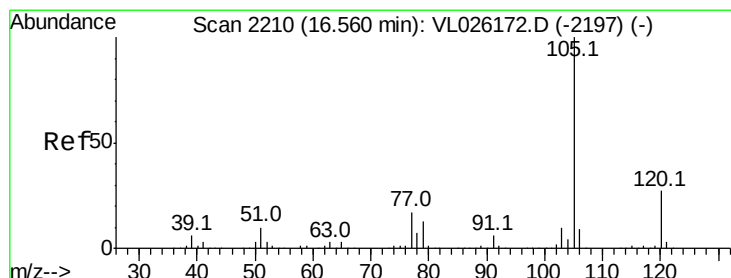
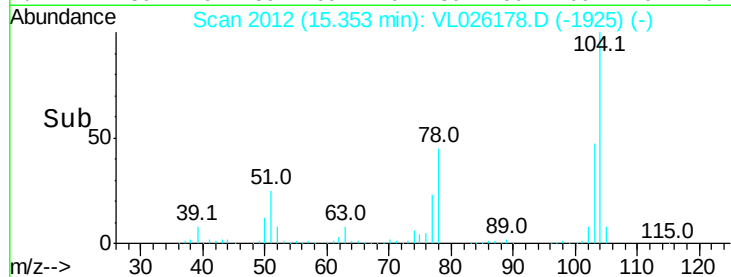
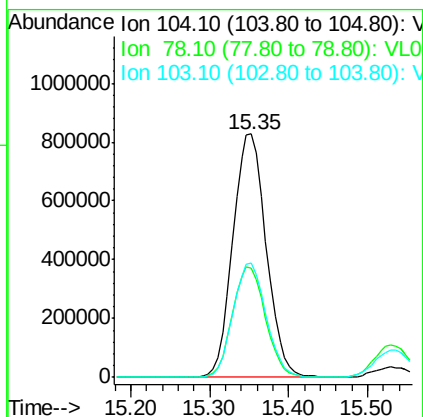
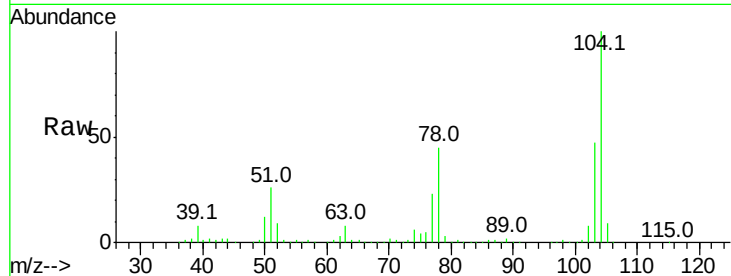




#61
Styrene
 Concen: 10.78 ppbv
 RT: 15.35 min Scan# 2012
 Delta R.T. 0.03 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

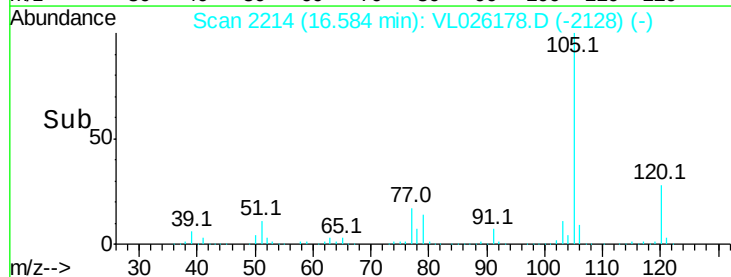
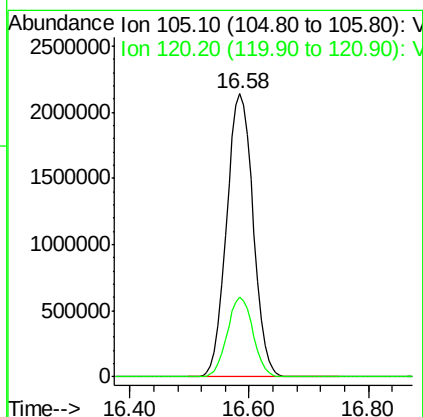
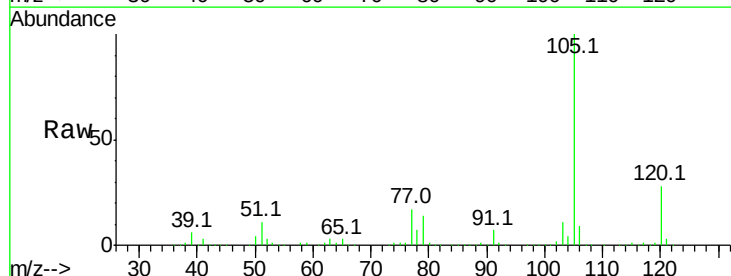
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

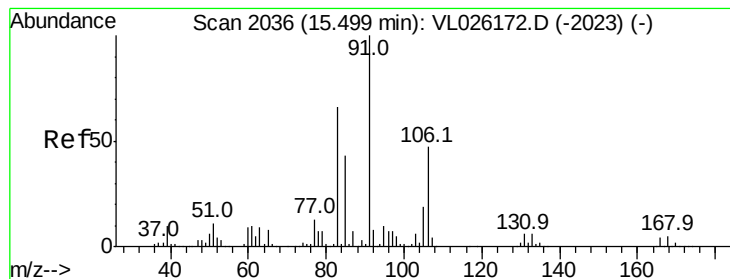
Tgt Ion:104 Resp: 2436963
 Ion Ratio Lower Upper
 104 100
 78 45.0 36.1 54.1
 103 46.7 37.5 56.3



#62
Isopropylbenzene
 Concen: 9.55 ppbv
 RT: 16.58 min Scan# 2214
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

Tgt Ion:105 Resp: 6606200
 Ion Ratio Lower Upper
 105 100
 120 27.5 21.8 32.6





#63

1,1,2,2-Tetrachloroethane

Concen: 7.93 ppbv

RT: 15.53 min Scan# 2041

Delta R.T. 0.03 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

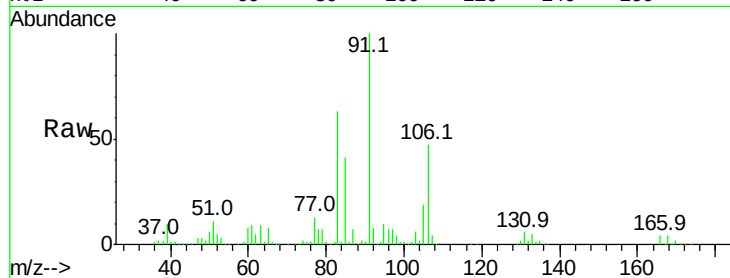
Tgt Ion: 83 Resp: 3201591

Ion Ratio Lower Upper

83 100

131 9.4 4.5 13.7

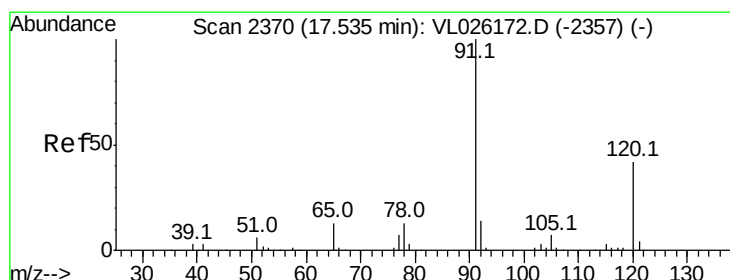
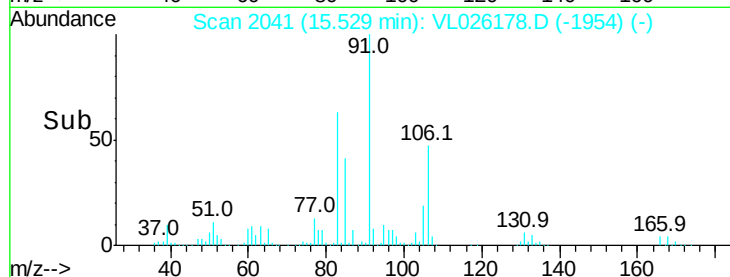
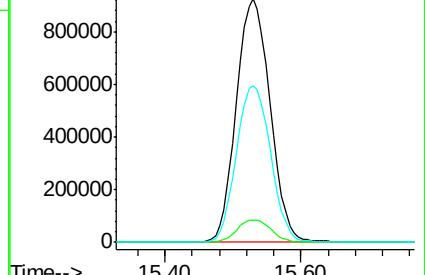
85 65.3 32.6 97.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.03 ppbv

RT: 17.56 min Scan# 2374

Delta R.T. 0.02 min

Lab File: VL026178.D

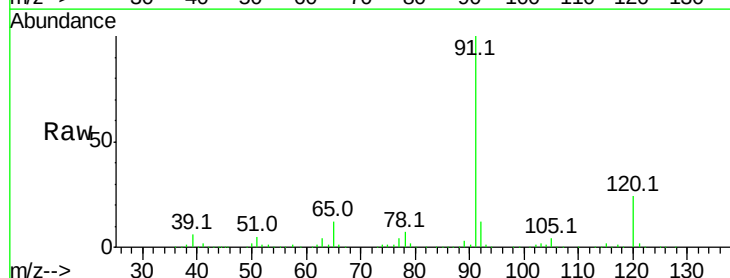
Acq: 9 Oct 2015 14:54

Tgt Ion:120 Resp: 1854526

Ion Ratio Lower Upper

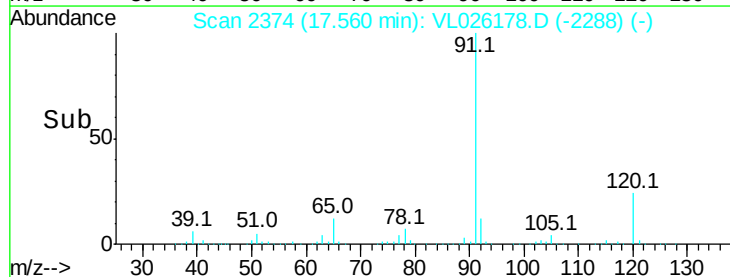
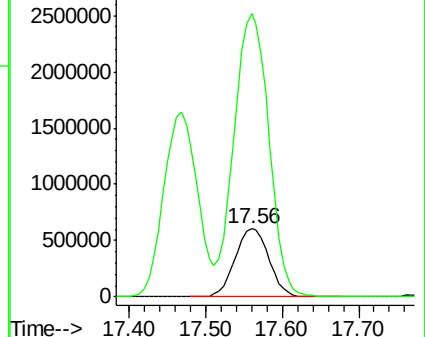
120 100

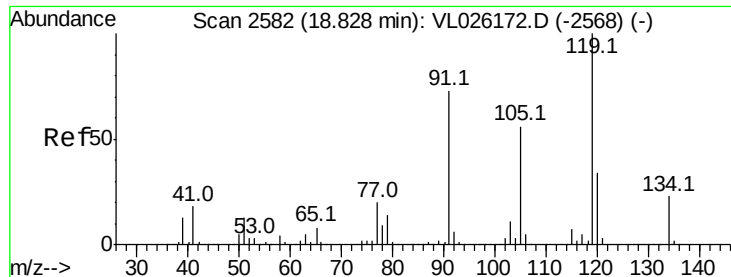
91 433.8 353.4 530.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

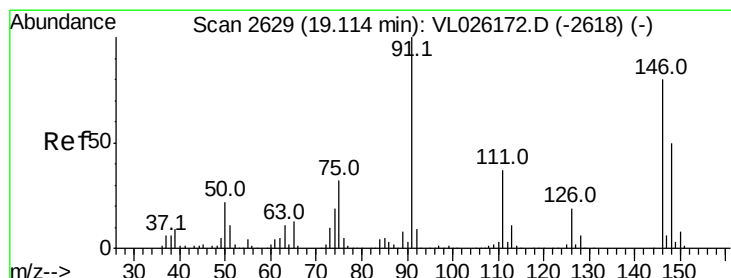
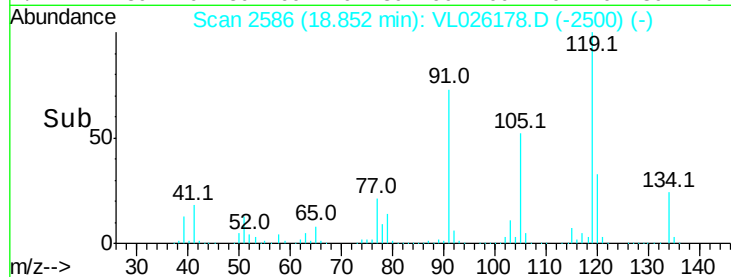
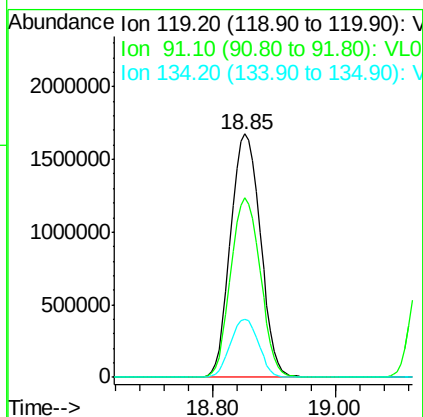
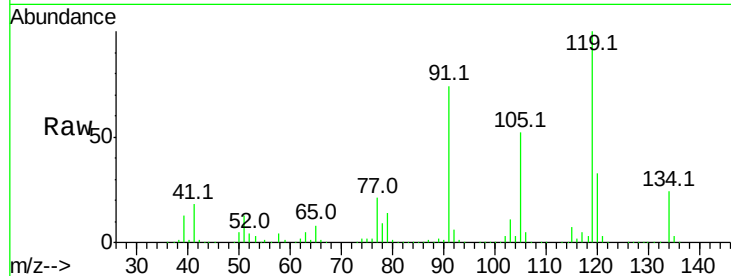




#65
 tert-Butylbenzene
 Concen: 9.32 ppbv
 RT: 18.85 min Scan# 2586
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

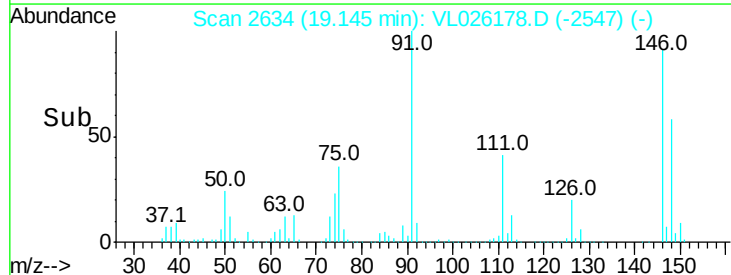
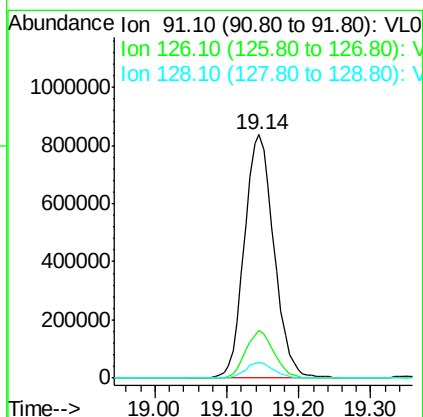
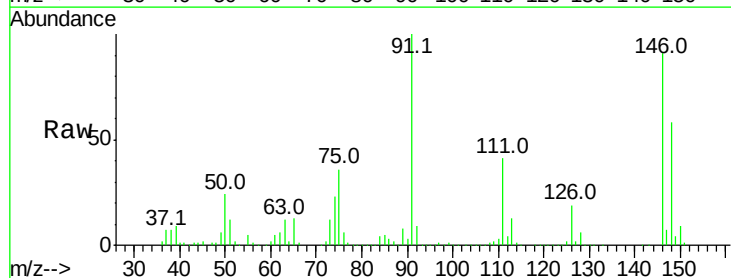
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

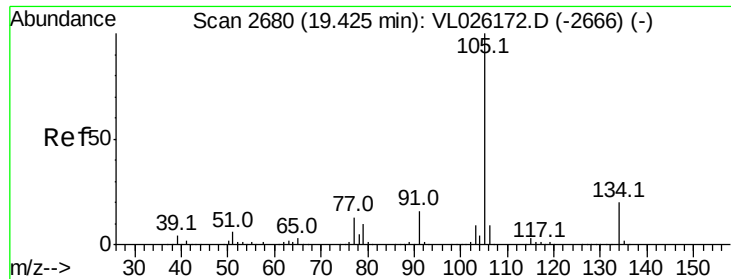
Tgt Ion: 119 Resp: 5654162
 Ion Ratio Lower Upper
 119 100
 91 73.5 58.5 87.7
 134 22.6 18.0 27.0



#66
 Benzyl Chloride
 Concen: 14.39 ppbv
 RT: 19.14 min Scan# 2634
 Delta R.T. 0.03 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

Tgt Ion: 91 Resp: 2374886
 Ion Ratio Lower Upper
 91 100
 126 18.8 15.2 22.8
 128 6.2 4.8 7.2





#67

sec-Butylbenzene

Concen: 9.45 ppbv

RT: 19.45 min Scan# 2684

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

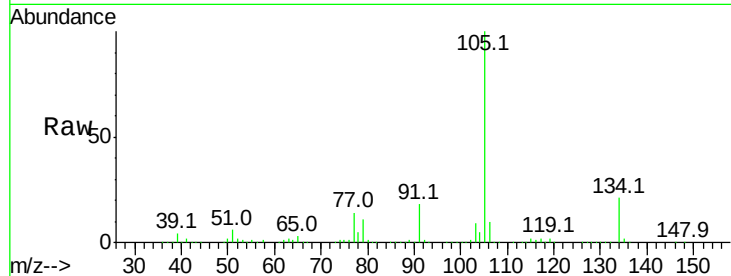
VSTDIC015

Tgt Ion:105 Resp: 8095361

Ion Ratio Lower Upper

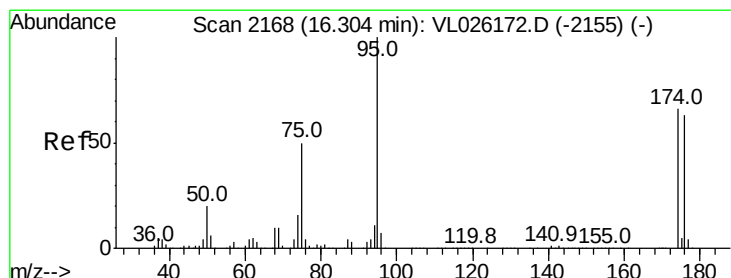
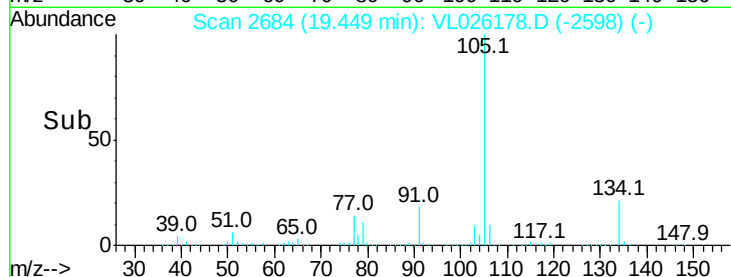
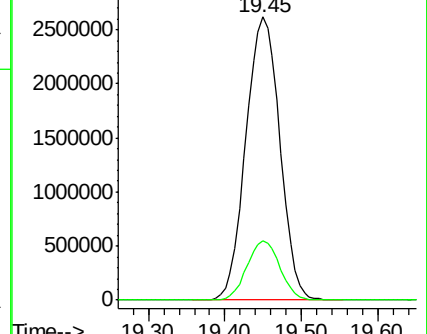
105 100

134 20.4 15.9 23.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.03 ppbv

RT: 16.33 min Scan# 2172

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

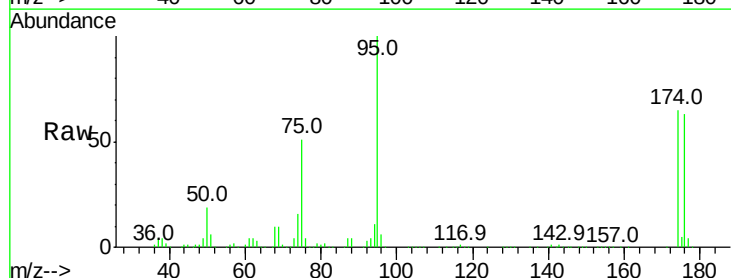
Tgt Ion: 95 Resp: 2303520

Ion Ratio Lower Upper

95 100

174 65.2 52.2 78.4

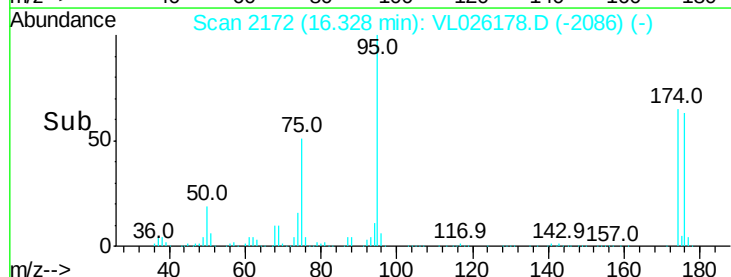
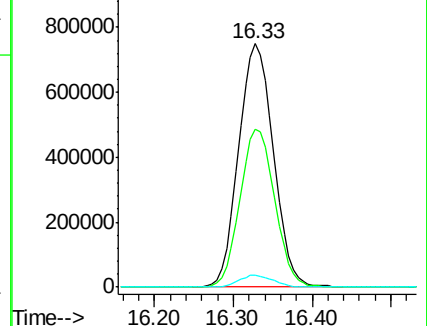
175 4.8 3.9 5.9

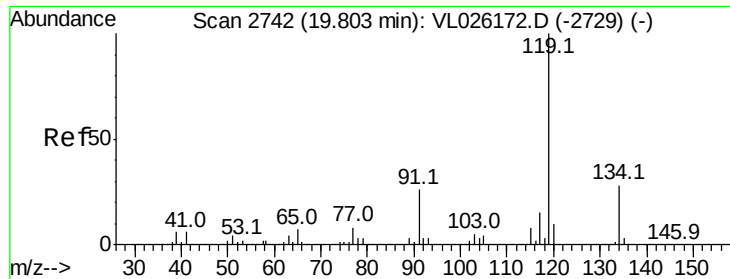


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

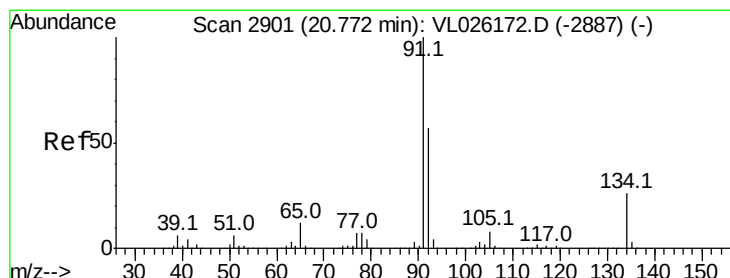
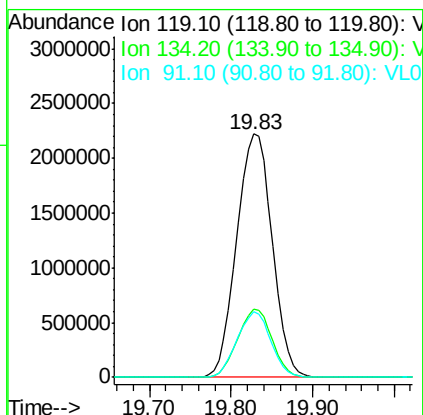
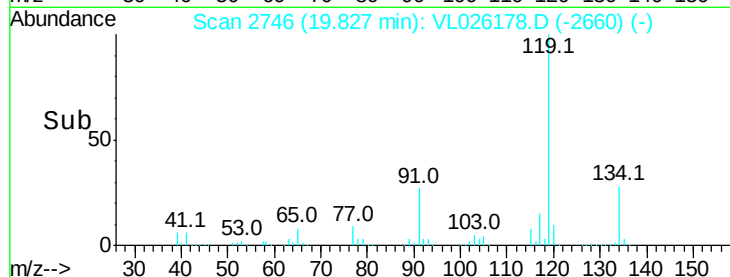
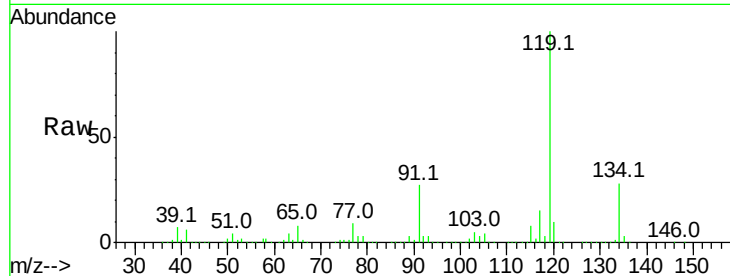




#69
p-Isopropyltoluene
Concen: 9.71 ppbv
RT: 19.83 min Scan# 2746
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

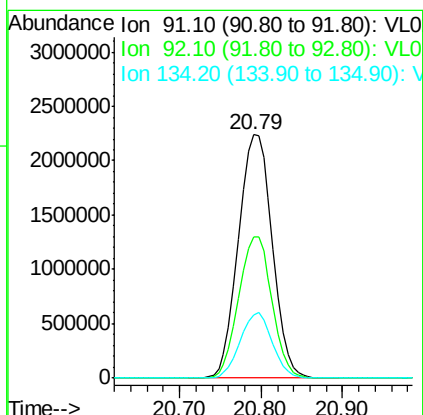
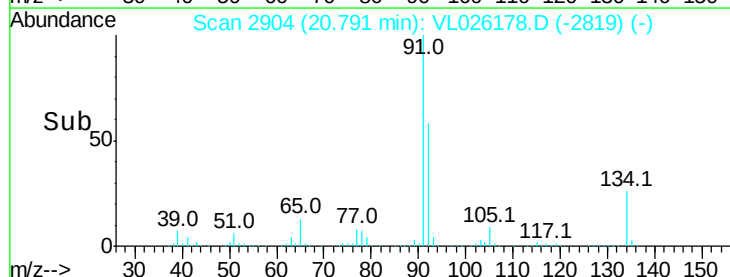
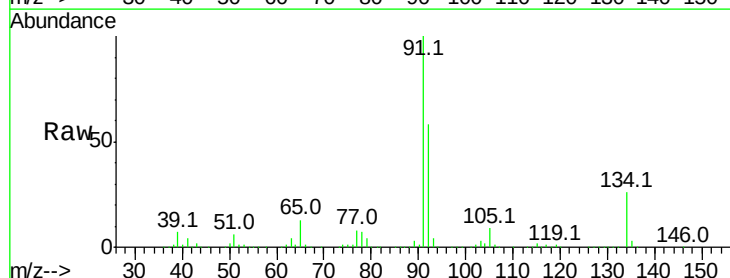
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

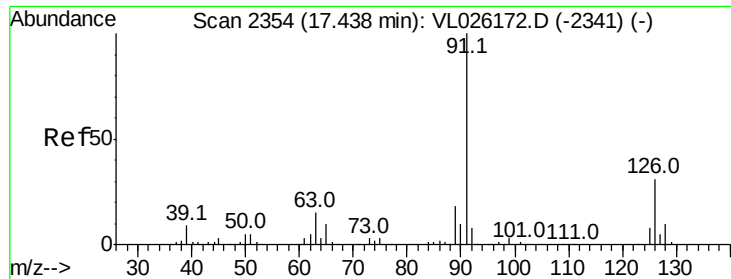
Tgt Ion: 119 Resp: 6725901
Ion Ratio Lower Upper
119 100
134 27.3 21.4 32.0
91 25.5 19.9 29.9



#70
n-Butylbenzene
Concen: 9.33 ppbv
RT: 20.79 min Scan# 2904
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

Tgt Ion: 91 Resp: 6463576
Ion Ratio Lower Upper
91 100
92 57.1 45.0 67.6
134 25.5 19.8 29.8

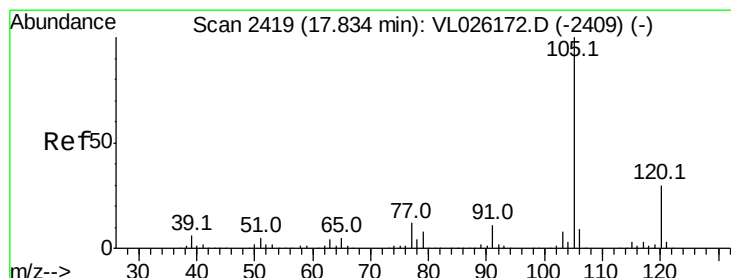
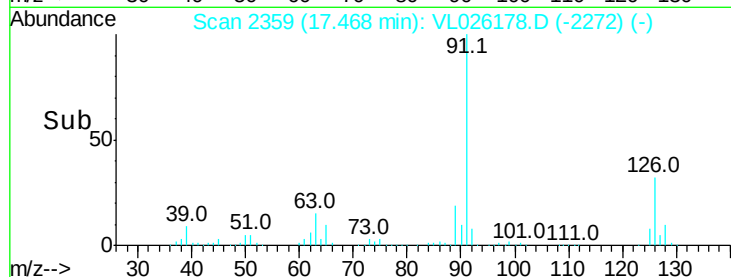
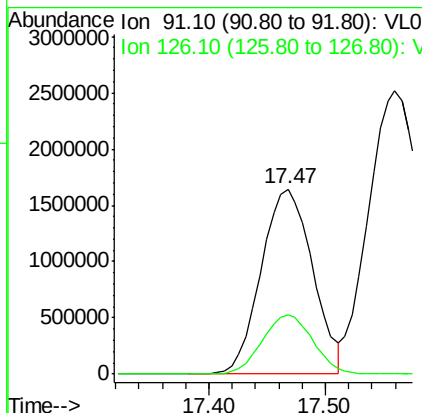
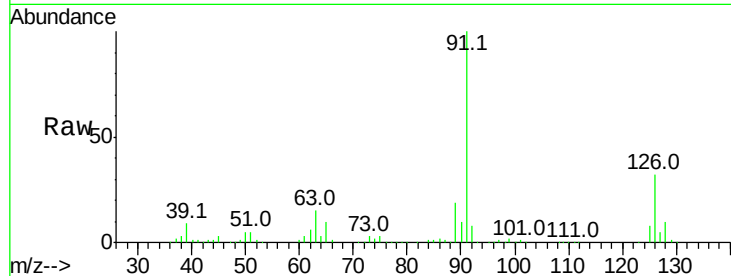




#71
 2-Chlorotoluene
 Concen: 9.61 ppbv
 RT: 17.47 min Scan# 2359
 Delta R.T. 0.03 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

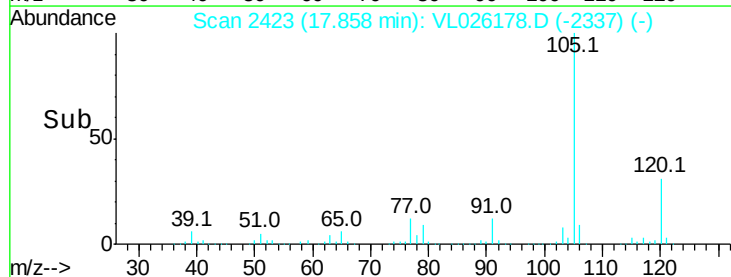
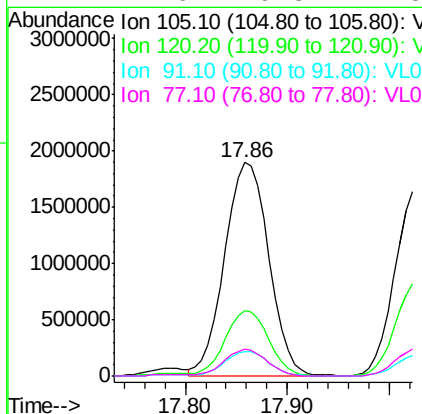
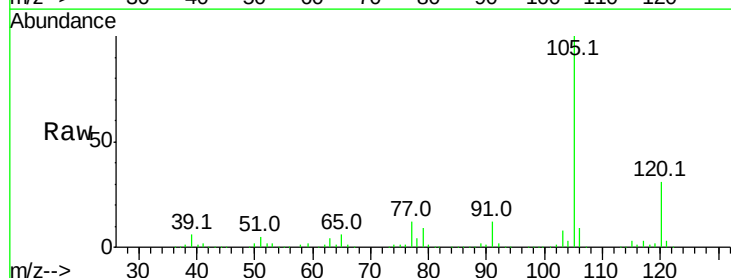
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

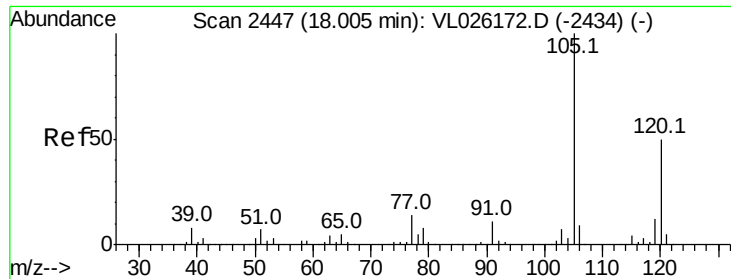
Tgt Ion: 91 Resp: 5057624
 Ion Ratio Lower Upper
 91 100
 126 31.6 12.8 51.2



#72
 4-Ethyltoluene
 Concen: 9.93 ppbv
 RT: 17.86 min Scan# 2423
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

Tgt Ion: 105 Resp: 5716490
 Ion Ratio Lower Upper
 105 100
 120 31.3 24.7 37.1
 91 11.8 9.2 13.8
 77 12.6 9.8 14.8

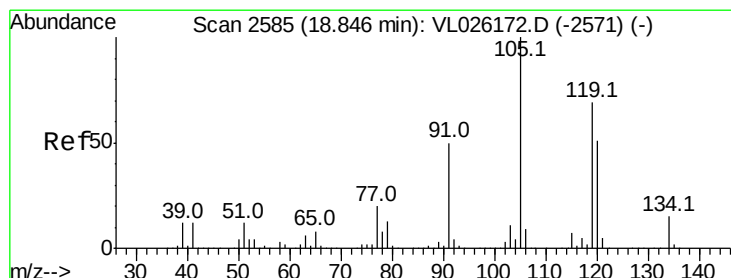
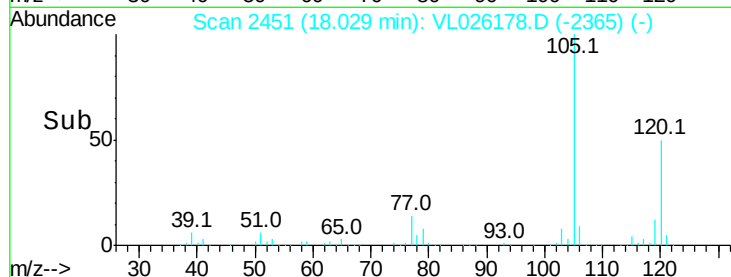
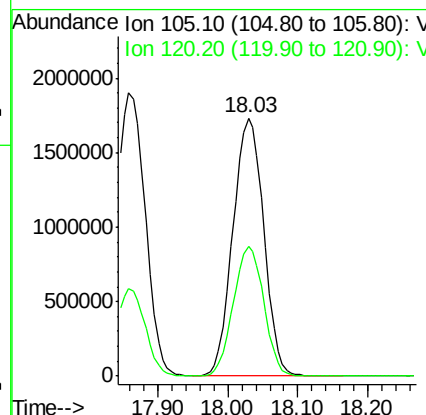
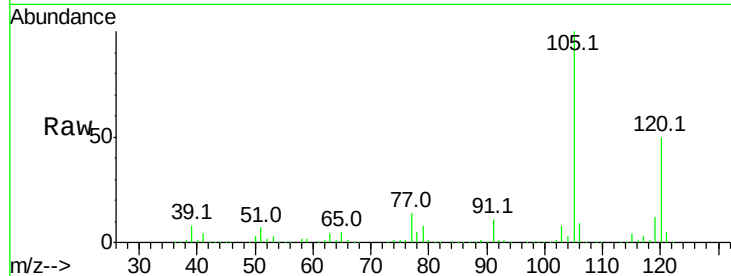




#73
 1,3,5-Trimethylbenzene
 Concen: 9.91 ppbv
 RT: 18.03 min Scan# 2451
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

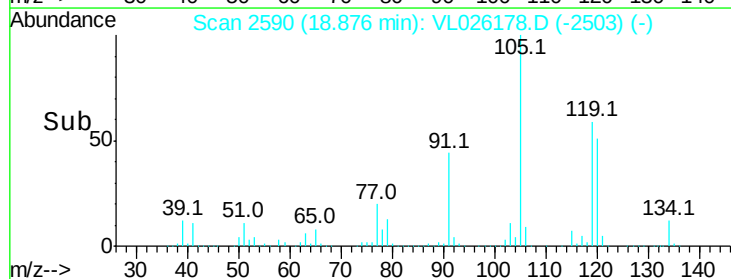
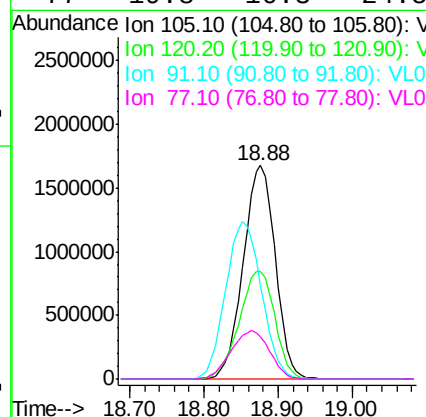
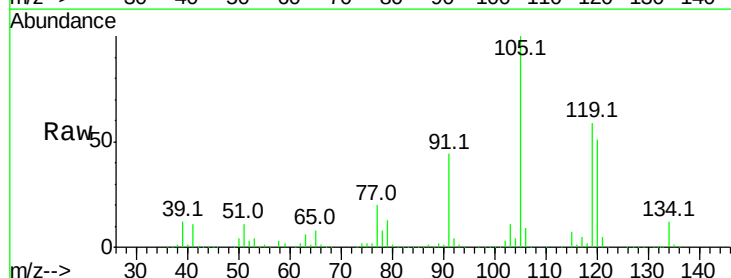
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

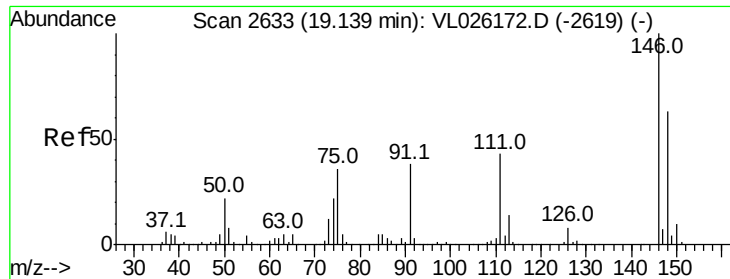
Tgt Ion:105 Resp: 5293320
 Ion Ratio Lower Upper
 105 100
 120 50.2 40.1 60.1



#74
 1,2,4-Trimethylbenzene
 Concen: 9.08 ppbv
 RT: 18.88 min Scan# 2590
 Delta R.T. 0.03 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

Tgt Ion:105 Resp: 5081281
 Ion Ratio Lower Upper
 105 100
 120 50.5 41.1 61.7
 91 43.8 39.8 59.6
 77 19.8 16.3 24.5





#75

1,3-Dichlorobenzene

Concen: 9.78 ppbv

RT: 19.16 min Scan# 2637

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

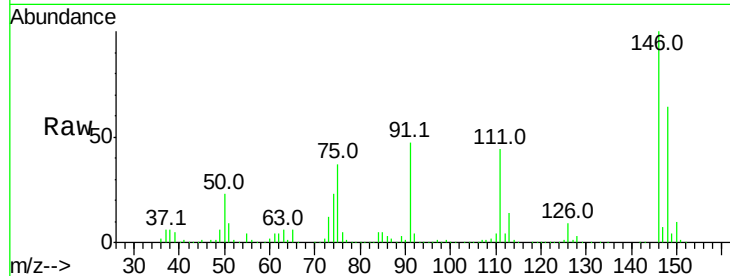
Tgt Ion:146 Resp: 3401064

Ion Ratio Lower Upper

146 100

111 43.9 22.1 66.3

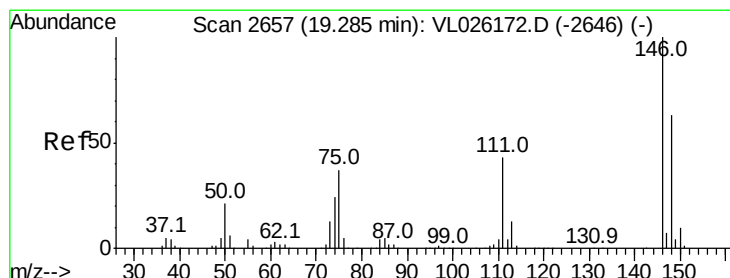
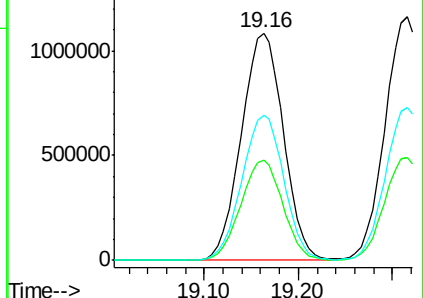
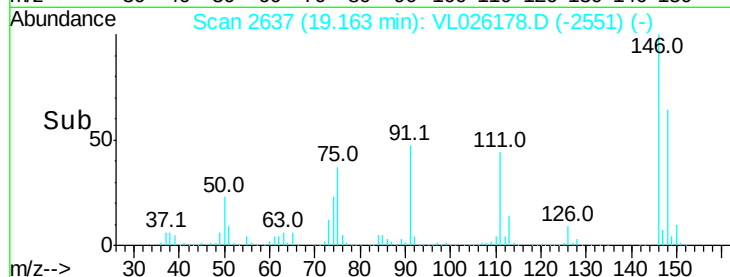
148 63.5 31.9 95.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.91 ppbv

RT: 19.32 min Scan# 2662

Delta R.T. 0.03 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

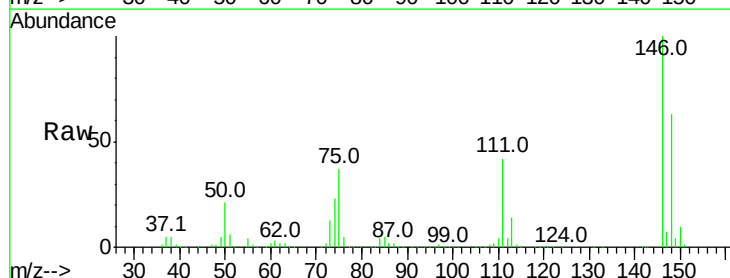
Tgt Ion:146 Resp: 3546372

Ion Ratio Lower Upper

146 100

111 42.9 21.3 63.9

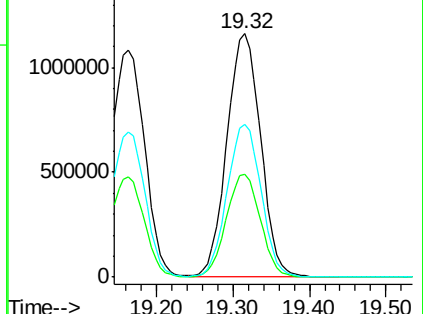
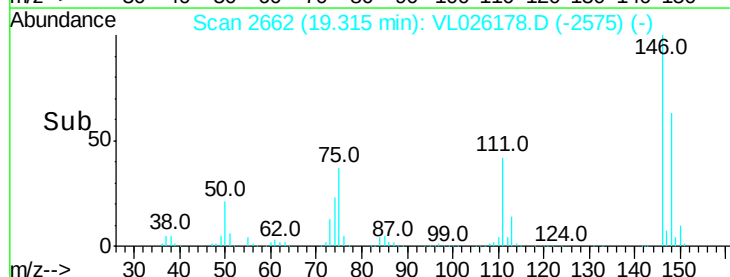
148 63.4 31.6 94.8

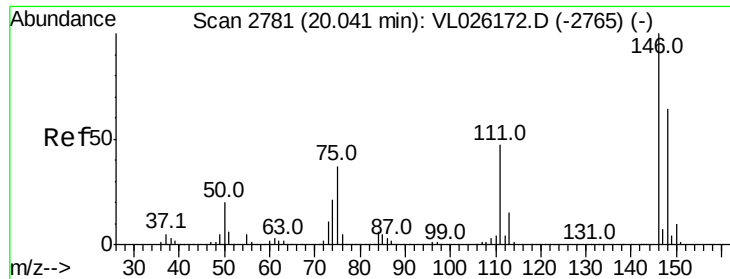


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.83 ppbv

RT: 20.07 min Scan# 2785

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

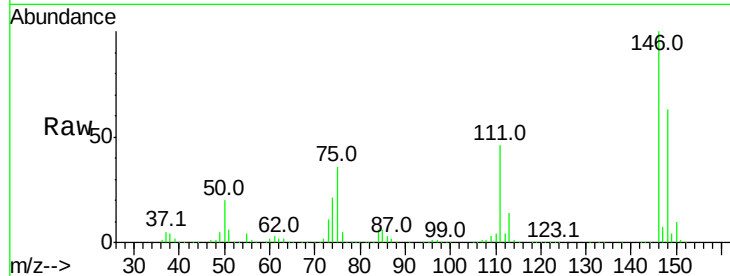
Tgt Ion:146 Resp: 3412050

Ion Ratio Lower Upper

146 100

111 46.2 23.0 69.0

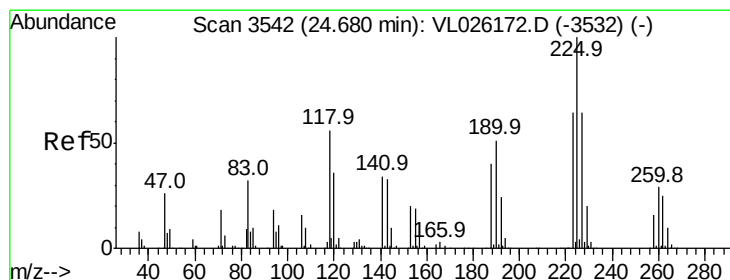
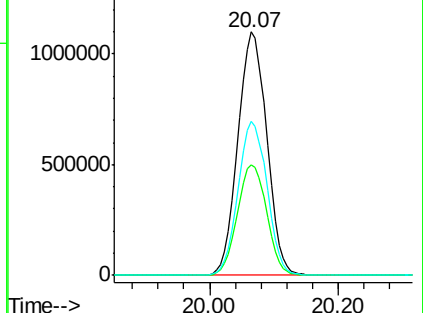
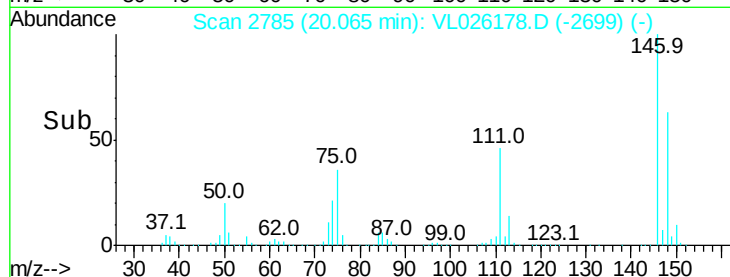
148 63.6 31.8 95.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.48 ppbv

RT: 24.70 min Scan# 3545

Delta R.T. 0.02 min

Lab File: VL026178.D

Acq: 9 Oct 2015 14:54

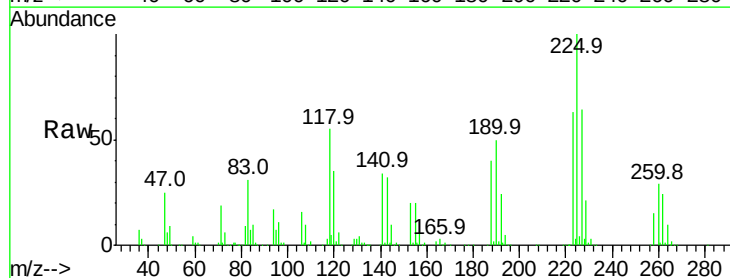
Tgt Ion:225 Resp: 1178776

Ion Ratio Lower Upper

225 100

223 63.7 51.1 76.7

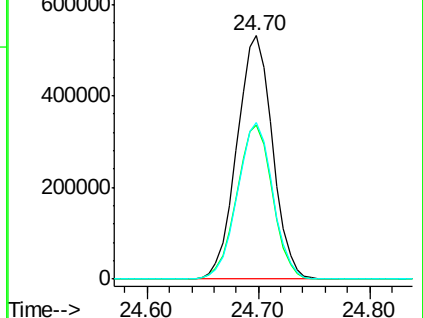
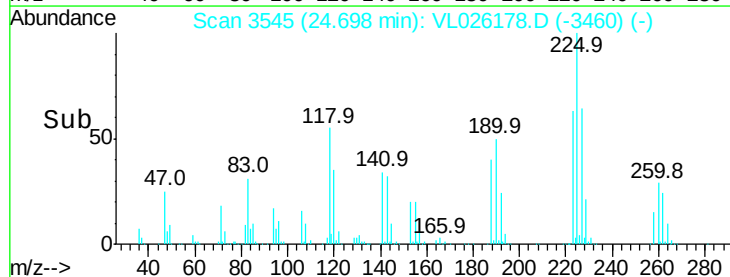
227 64.0 50.8 76.2

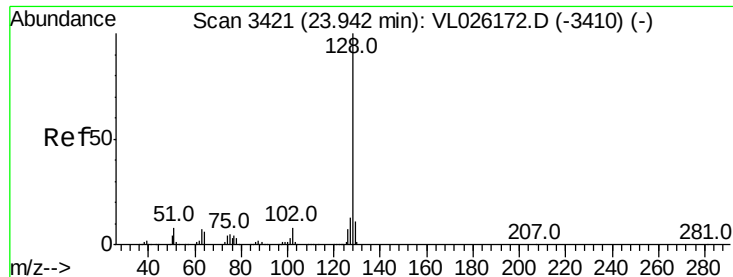


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

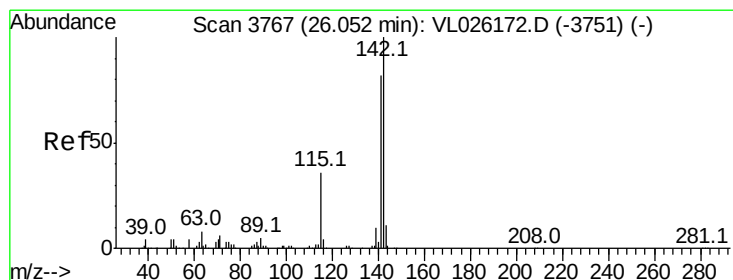
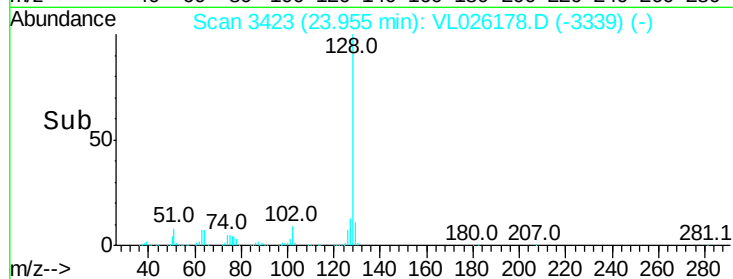
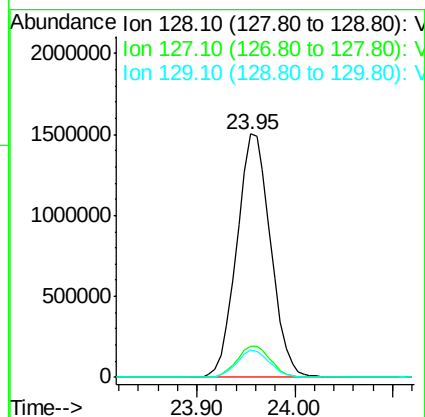
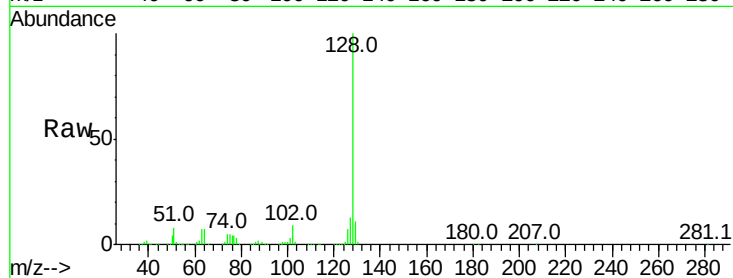




#79
Naphthalene
Concen: 8.28 ppbv
RT: 23.95 min Scan# 3423
Delta R.T. 0.01 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

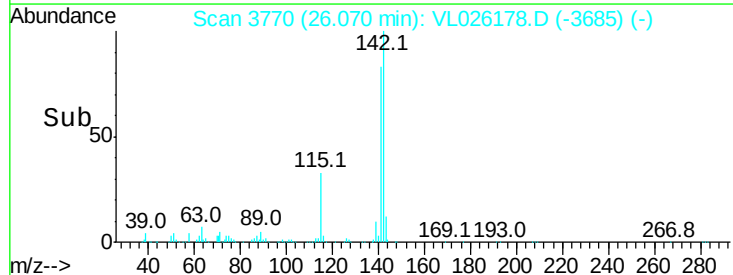
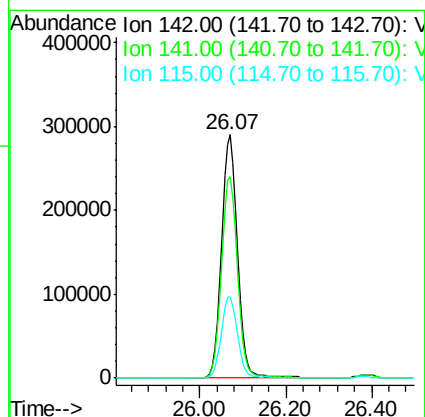
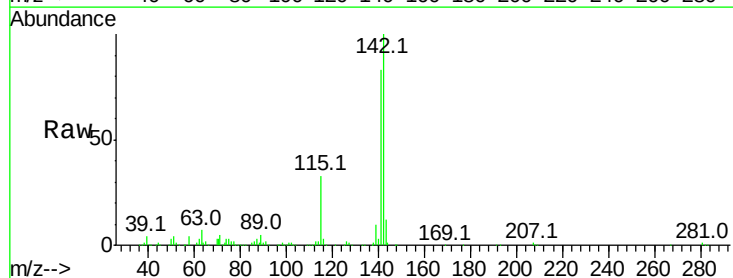
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

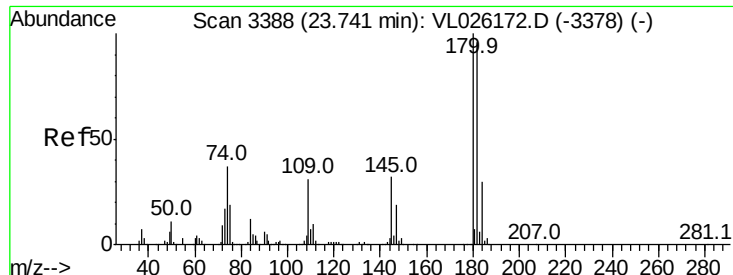
Tgt Ion:128 Resp: 3602287
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 11.3 8.7 13.1



#80
Naphthalene, 2-methyl-
Concen: 7.55 ppbv
RT: 26.07 min Scan# 3770
Delta R.T. 0.02 min
Lab File: VL026178.D
Acq: 9 Oct 2015 14:54

Tgt Ion:142 Resp: 770191
Ion Ratio Lower Upper
142 100
141 83.9 66.6 99.8
115 34.3 28.4 42.6

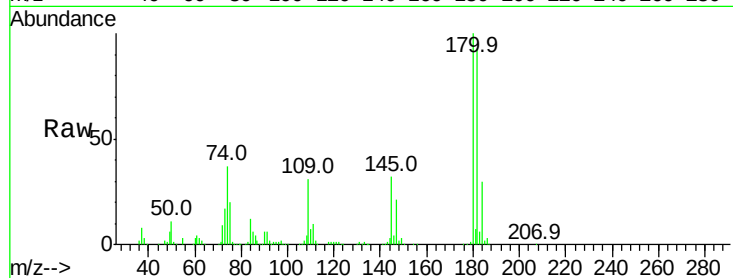




#81
 1,2,4-Trichlorobenzene
 Concen: 8.01 ppbv
 RT: 23.76 min Scan# 3391
 Delta R.T. 0.02 min
 Lab File: VL026178.D
 Acq: 9 Oct 2015 14:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 1676394
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.4 114.6
 184 30.2 24.0 36.0



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

