

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\
 Data File : VL026215.D
 Acq On : 20 Oct 2015 19:49
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102015

Quant Time: Oct 21 01:00:42 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Oct 20 20:24:48 2015
 QLast Update : Tue Oct 20 20:24:48 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	531906	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	1659053	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.72	117	2474454	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.27	95	1596779	8.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.63	85	873007	7.92	ppbv	99
3) Chlorodifluoromethane	3.56	51	631226	9.37	ppbv	100
4) Chloromethane	3.73	50	366604	10.09	ppbv	98
5) Vinyl Chloride	3.87	62	392488	10.26	ppbv	97
6) Bromomethane	4.13	94	280331	10.21	ppbv	97
7) Chloroethane	4.22	64	165867	10.34	ppbv	100
8) Dichlorotetrafluoroethane	3.79	85	949049	10.02	ppbv	100
9) Propene	3.58	41	302851	9.61	ppbv	99
10) Heptane	9.33	43	1016795	9.63	ppbv	100
11) Trichlorofluoromethane	4.68	101	1124771	10.40	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.29	101	764453	10.36	ppbv	99
13) Ethanol	4.31	45	35769	7.56	ppbv	97
14) Bromoethene	4.43	108	326646	10.49	ppbv	99
15) Acetone	4.58	43	687282	8.78	ppbv	100
16) 1,3-Butadiene	3.95	39	347935	9.96	ppbv	99
17) tert-Butyl alcohol	5.10	59	681834	12.74	ppbv	100
18) 1,1-Dichloroethene	5.07	96	354686	10.64	ppbv	99
19) Isopropyl Alcohol	4.73	45	340420	11.12	ppbv	93
20) Methylene Chloride	5.13	84	321592	10.29	ppbv	98
21) Allyl Chloride	5.21	41	549155	10.74	ppbv	99
22) trans-1,2-Dichloroethene	5.74	96	434595	10.11	ppbv	97
23) Vinyl Acetate	5.96	43	1435153	9.94	ppbv	100
24) 1,1-Dichloroethane	5.89	63	905245	9.94	ppbv	100
25) Ethyl Acetate	6.65	43	1420550	9.68	ppbv	100
26) Hexane	6.64	57	704334	9.60	ppbv	99
27) Carbon Disulfide	5.37	76	1002340	10.69	ppbv	97
28) Methyl tert-Butyl Ether	5.93	73	1337326	10.03	ppbv	99
29) Chloroform	6.73	83	1064851	10.00	ppbv	100
30) Cyclohexane	8.26	84	712019	9.70	ppbv	100
31) cis-1,2-Dichloroethene	6.50	61	668614	10.04	ppbv	98
32) 1,1,1-Trichloroethane	7.57	97	1142742	9.68	ppbv	100
34) 2-Butanone	6.18	43	877354	9.36	ppbv	99
35) Carbon Tetrachloride	8.14	117	1191423	9.43	ppbv	96
36) Benzene	8.00	78	1594133	9.44	ppbv	99
37) 1,2-Dichloroethane	7.35	62	866175	9.97	ppbv	100
38) Trichloroethene	9.04	130	680557	8.30	ppbv	99
39) 1,2-Dichloropropane	8.81	63	560327	9.43	ppbv	99
40) 1,4-Dioxane	9.10	88	99837	8.94	ppbv #	1
41) Tetrahydrofuran	7.10	42	525456	9.68	ppbv	99
42) Bromodichloromethane	9.01	83	1221454	9.78	ppbv	98
43) Methyl Methacrylate	9.24	69	606909	9.87	ppbv	98

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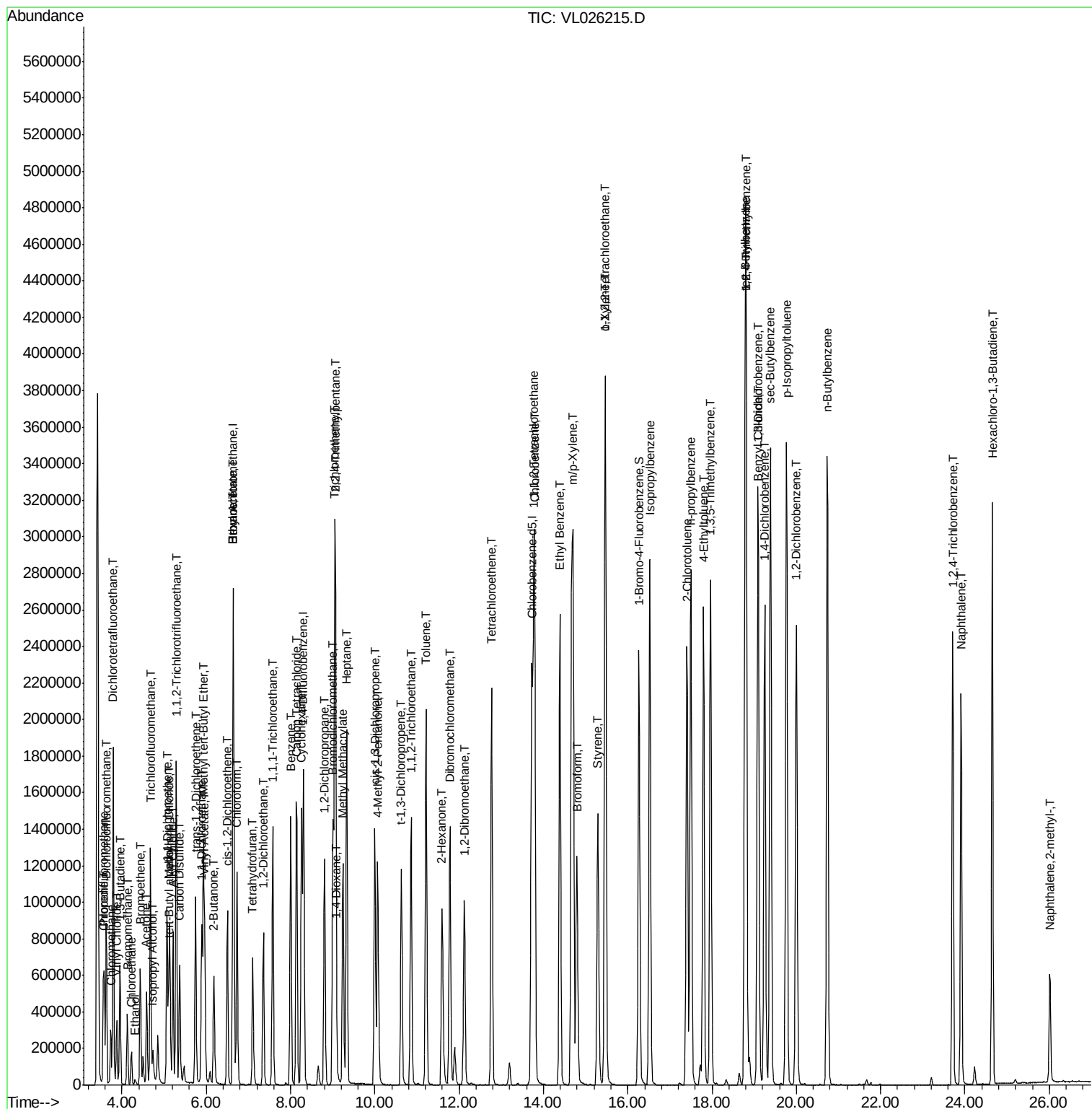
Quant Time: Oct 21 01:00:42 2015
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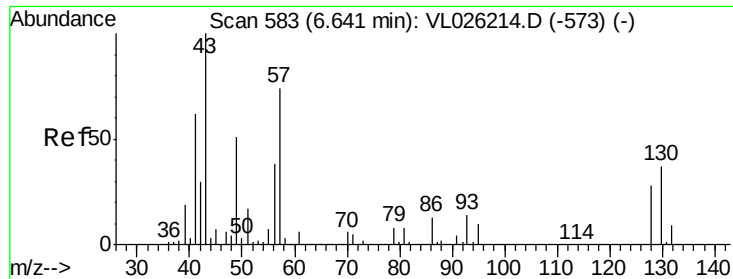
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.07	57	2509803	9.17	ppbv	100
45) t-1,3-Dichloropropene	10.63	75	976326	10.17	ppbv	100
46) cis-1,3-Dichloropropene	10.00	75	1106158	9.85	ppbv	99
47) 1,1,2-Trichloroethane	10.86	97	716877	9.60	ppbv	98
48) Dibromochloromethane	11.78	129	1204321	9.90	ppbv	100
49) Bromoform	14.79	173	1026368	9.99	ppbv	99
50) 4-Methyl-2-Pentanone	10.07	43	1248078	9.86	ppbv	100
51) 2-Hexanone	11.59	43	1205614	10.20	ppbv #	100
52) Tetrachloroethene	12.77	164	753814	7.78	ppbv	99
53) Toluene	11.21	91	2167413	9.43	ppbv	100
54) 1,2-Dibromoethane	12.12	107	1115417	9.65	ppbv	100
56) 1,1,1,2-Tetrachloroethane	13.76	131	867071	7.31	ppbv	99
57) Chlorobenzene	13.79	112	1807137	7.63	ppbv	99
58) Ethyl Benzene	14.39	91	3113827	7.77	ppbv	99
59) m/p-Xylene	14.69	91	4816091	15.34	ppbv	100
60) o-Xylene	15.47	91	2465566	7.51	ppbv	100
61) Styrene	15.29	104	1244696	8.38	ppbv	99
62) Isopropylbenzene	16.52	105	3504612	7.68	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	1560356	7.19	ppbv	100
64) n-propylbenzene	17.50	120	984229	7.84	ppbv	97
65) tert-Butylbenzene	18.79	119	3163678	7.59	ppbv	100
66) Benzyl Chloride	19.08	91	1441625	8.38	ppbv	100
67) sec-Butylbenzene	19.39	105	4533778	7.80	ppbv	100
69) p-Isopropyltoluene	19.77	119	3815818	7.85	ppbv	99
70) n-Butylbenzene	20.74	91	3472035	7.82	ppbv	100
71) 2-Chlorotoluene	17.40	91	2605442	7.75	ppbv	99
72) 4-Ethyltoluene	17.80	105	3074404	8.05	ppbv	100
73) 1,3,5-Trimethylbenzene	17.97	105	2847165	8.00	ppbv	100
74) 1,2,4-Trimethylbenzene	18.81	105	2794764	7.57	ppbv	99
75) 1,3-Dichlorobenzene	19.10	146	1879712	7.79	ppbv	100
76) 1,4-Dichlorobenzene	19.25	146	1983780	7.88	ppbv	99
77) 1,2-Dichlorobenzene	20.00	146	1915708	7.88	ppbv	100
78) Hexachloro-1,3-Butadiene	24.65	225	870708	6.98	ppbv	100
79) Naphthalene	23.91	128	2638095	8.11	ppbv	100
80) Naphthalene, 2-methyl-	26.02	142	476474	8.16	ppbv	97
81) 1,2,4-Trichlorobenzene	23.71	180	1197709	7.65	ppbv	100

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

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. -0.01 min

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ClientSampleId :

ICVVL102015

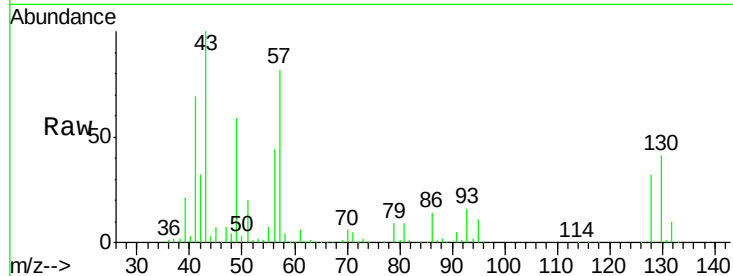
Tot Ion: 49 Resp: 531906

Ion Ratio Lower Upper

49 100

128 56.3 28.2 84.7

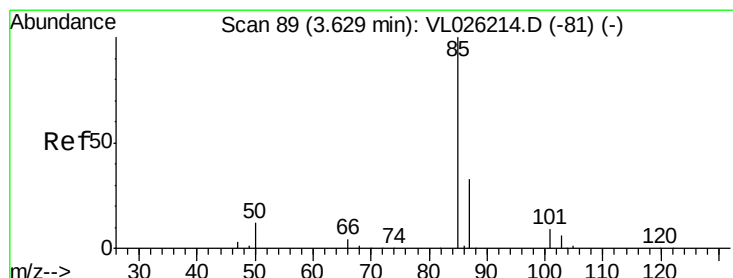
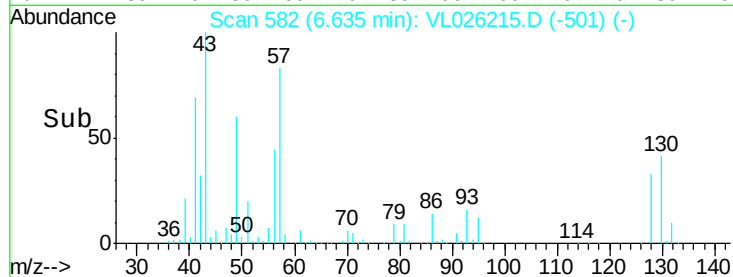
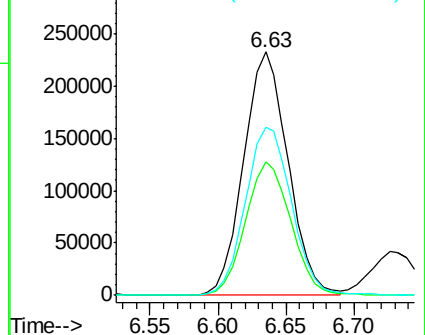
130 72.3 36.0 108.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.92 ppbv

RT: 3.63 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL026215.D

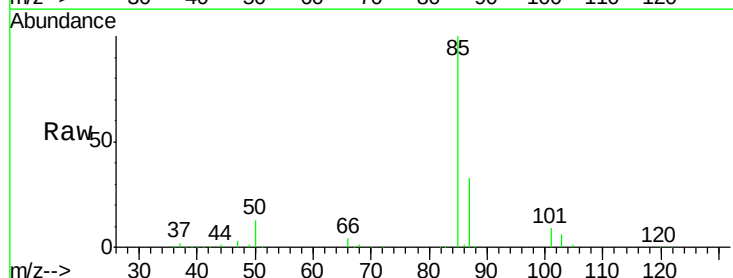
Acq: 20 Oct 2015 19:49

Tgt Ion: 85 Resp: 873007

Ion Ratio Lower Upper

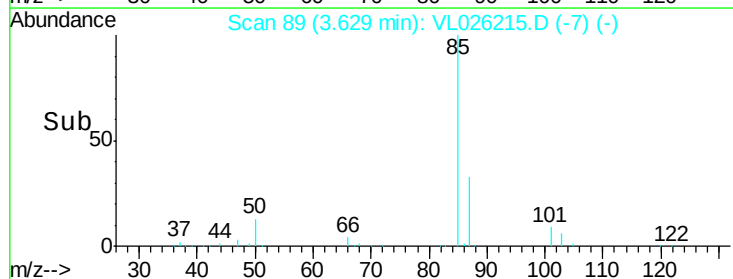
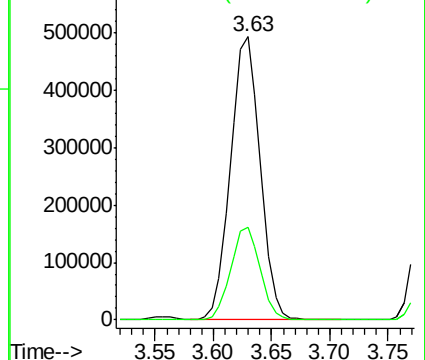
85 100

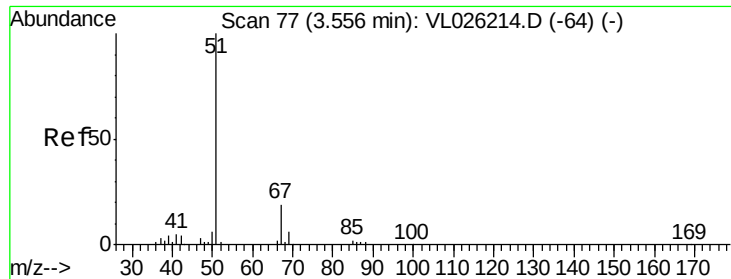
87 32.9 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

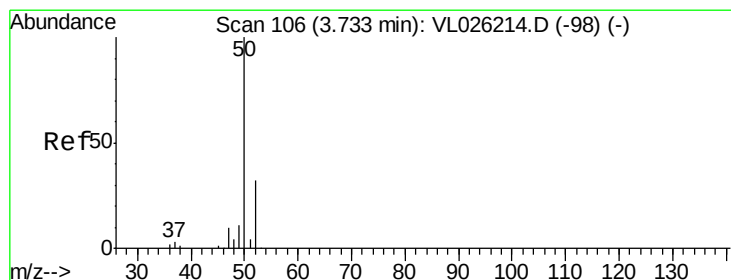
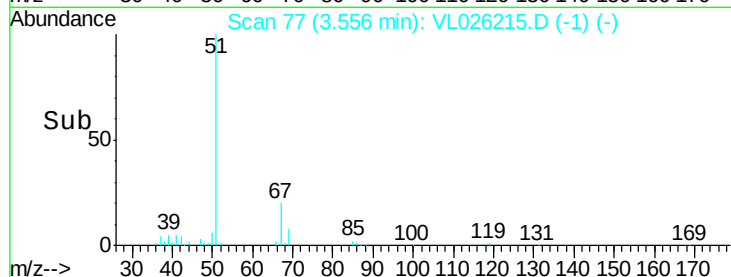
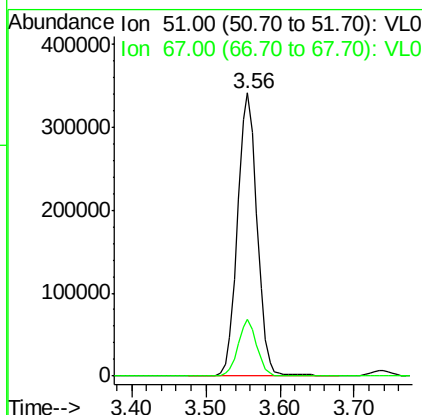
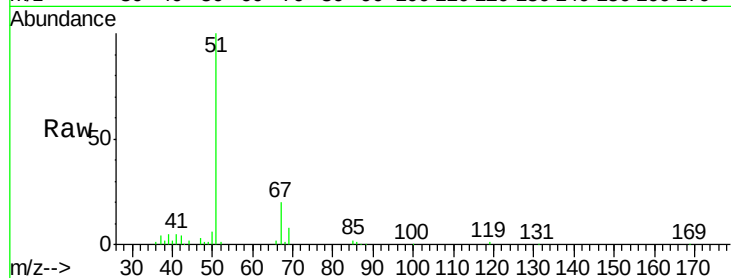




#3
Chlorodifluoromethane
Concen: 9.37 ppbv
RT: 3.56 min Scan# 77
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

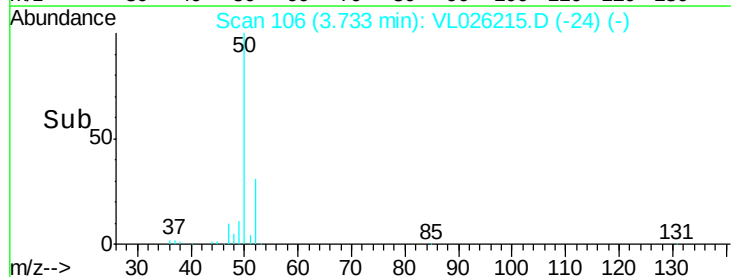
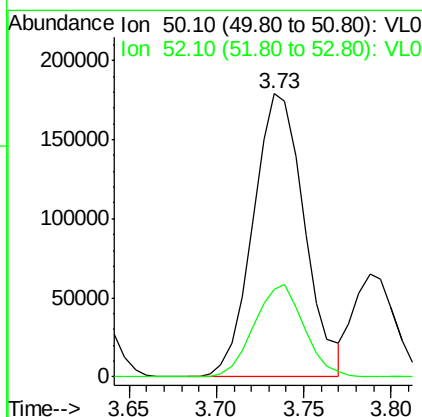
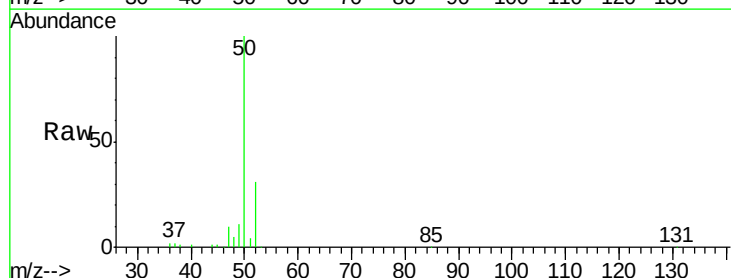
Instrument :
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ICVVL102015

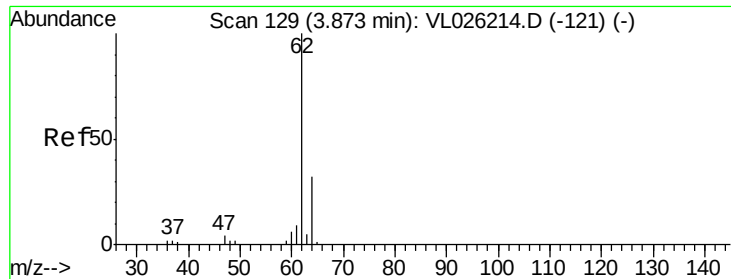
Tot Ion: 51 Resp: 631226
Ion Ratio Lower Upper
51 100
67 19.2 15.3 22.9



#4
Chloromethane
Concen: 10.09 ppbv
RT: 3.73 min Scan# 106
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Tgt Ion: 50 Resp: 366604
Ion Ratio Lower Upper
50 100
52 31.1 25.8 38.6





#5

Vinyl Chloride

Concen: 10.26 ppbv

RT: 3.87 min Scan# 129

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

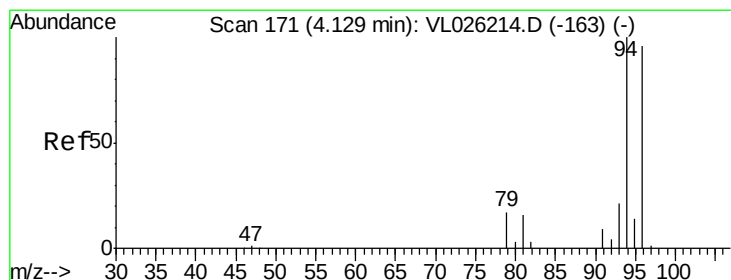
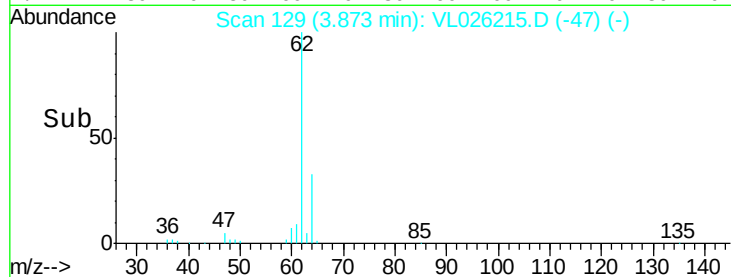
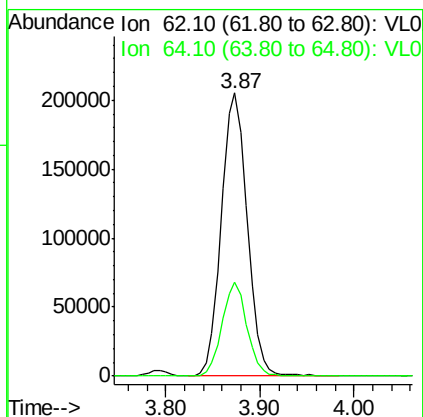
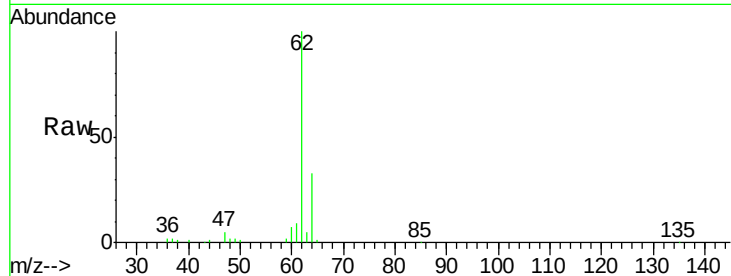
ICVVL102015

Tot Ion: 62 Resp: 392488

Ion Ratio Lower Upper

62 100

64 33.4 25.6 38.4



#6

Bromomethane

Concen: 10.21 ppbv

RT: 4.13 min Scan# 171

Delta R.T. -0.00 min

Lab File: VL026215.D

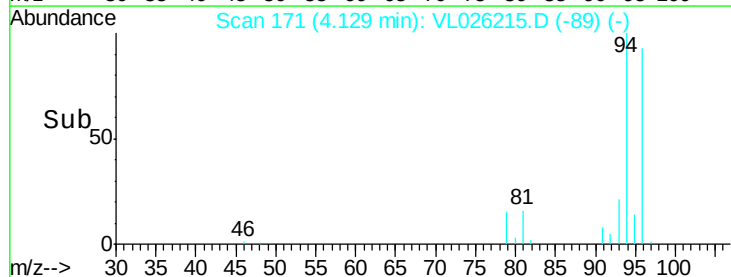
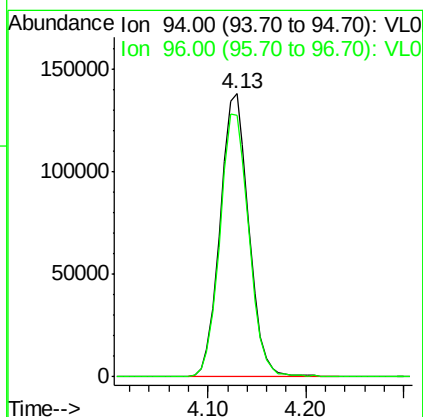
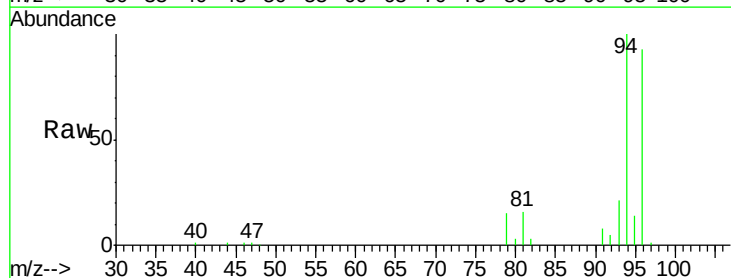
Acq: 20 Oct 2015 19:49

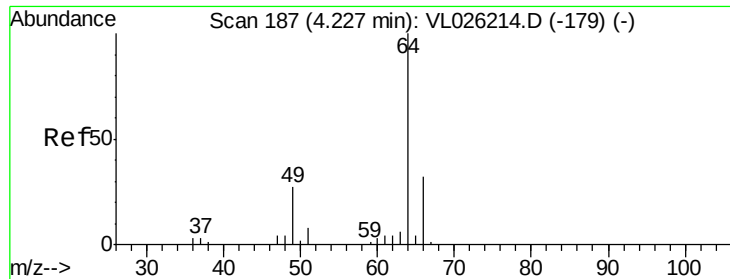
Tgt Ion: 94 Resp: 280331

Ion Ratio Lower Upper

94 100

96 92.4 76.5 114.7





#7

Chloroethane

Concen: 10.34 ppbv

RT: 4.22 min Scan# 186

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

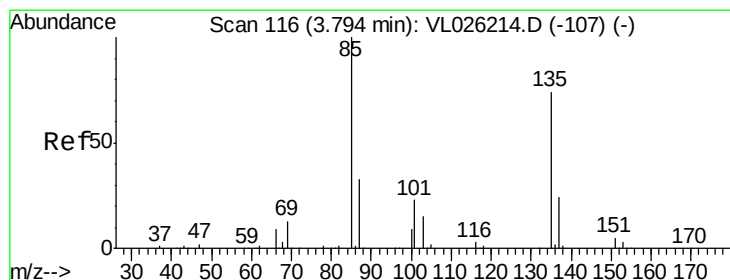
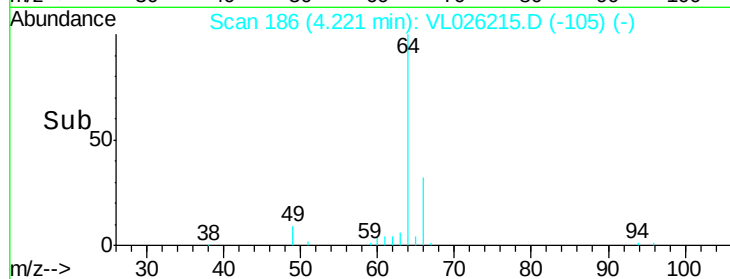
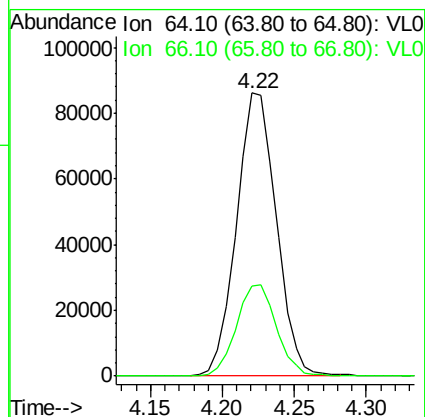
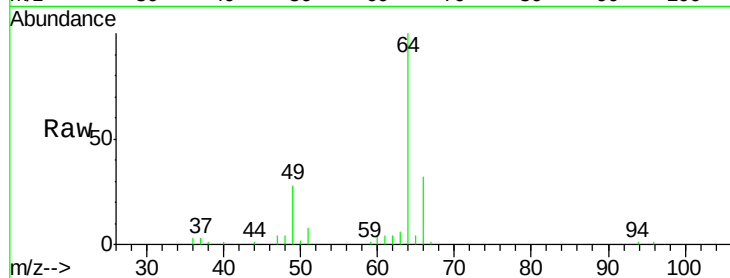
ICVVL102015

Tot Ion: 64 Resp: 165867

Ion Ratio Lower Upper

64 100

66 31.9 25.4 38.0



#8

Dichlorotetrafluoroethane

Concen: 10.02 ppbv

RT: 3.79 min Scan# 115

Delta R.T. -0.01 min

Lab File: VL026215.D

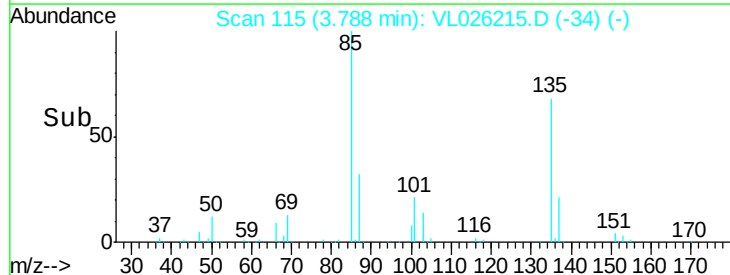
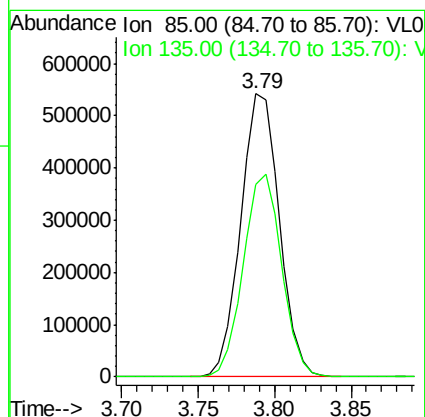
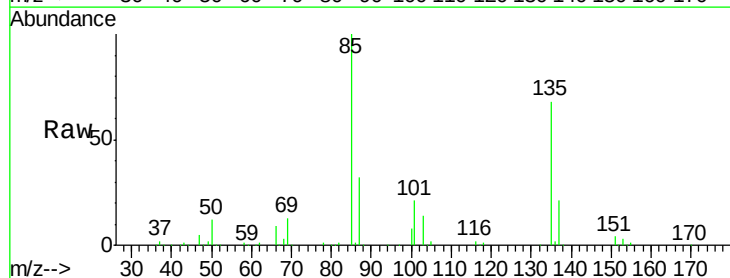
Acq: 20 Oct 2015 19:49

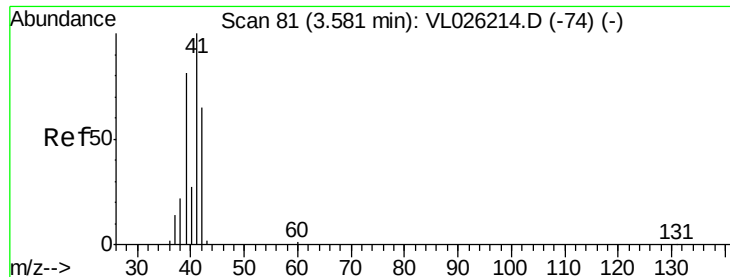
Tgt Ion: 85 Resp: 949049

Ion Ratio Lower Upper

85 100

135 71.9 57.8 86.8





#9

Propene

Concen: 9.61 ppbv

RT: 3.58 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL026215.D

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Instrument :

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ClientSampleId :

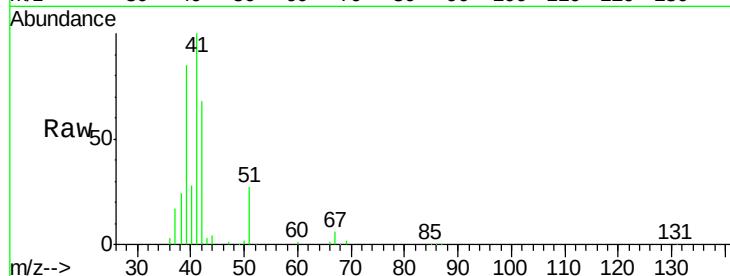
ICVVL102015

Tot Ion: 41 Resp: 302851

Ion Ratio Lower Upper

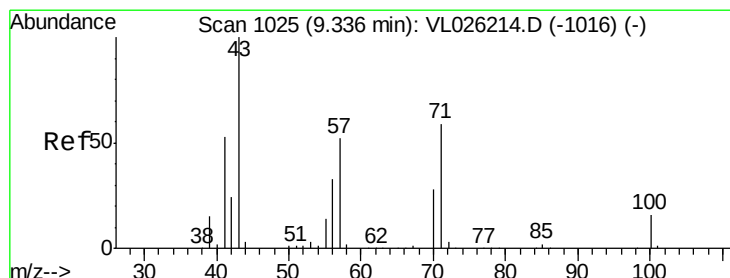
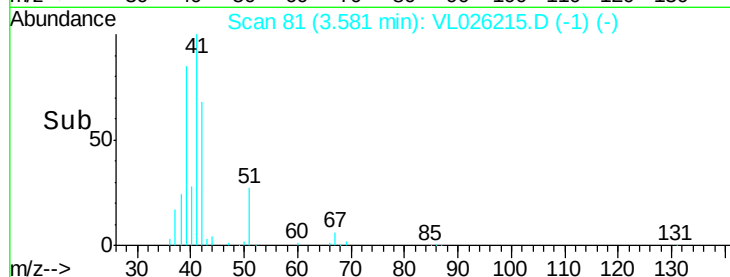
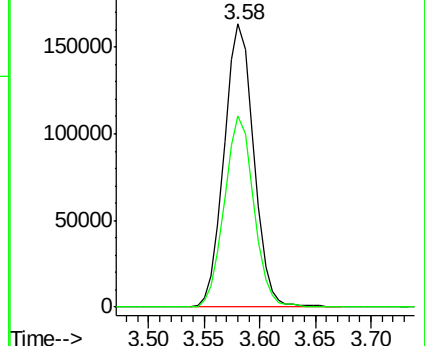
41 100

42 66.7 53.8 80.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.63 ppbv

RT: 9.33 min Scan# 1024

Delta R.T. -0.01 min

Lab File: VL026215.D

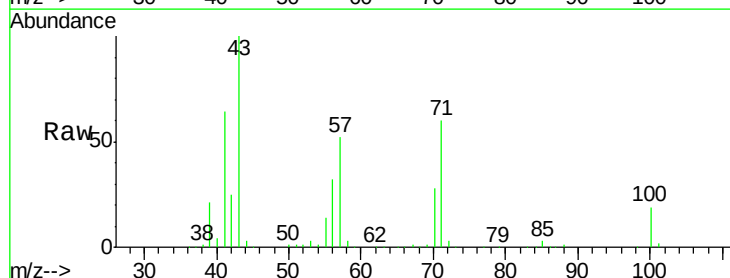
Acq: 20 Oct 2015 19:49

Tgt Ion: 43 Resp: 1016795

Ion Ratio Lower Upper

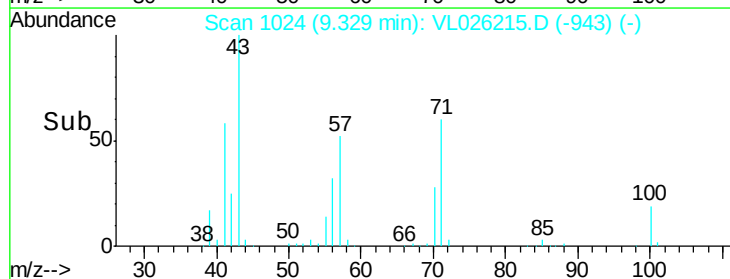
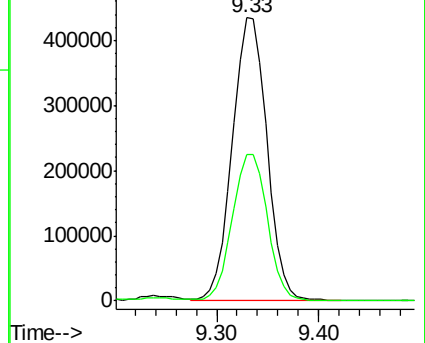
43 100

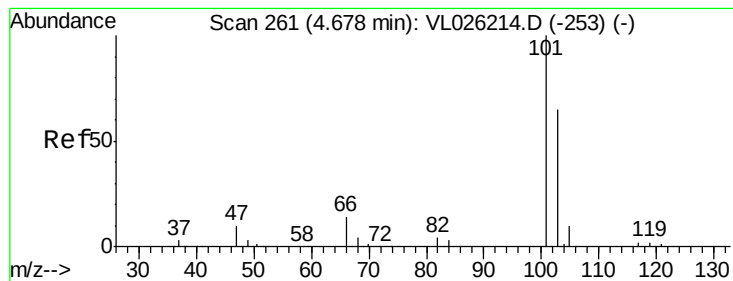
57 54.3 43.7 65.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 10.40 ppbv

RT: 4.68 min Scan# 261

Delta R.T. -0.00 min

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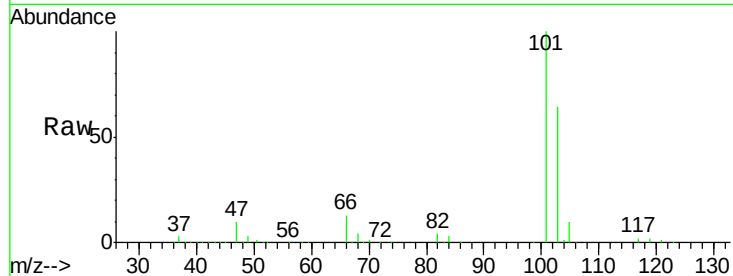
ICVVL102015

Tot Ion:101 Resp: 1124771

Ion Ratio Lower Upper

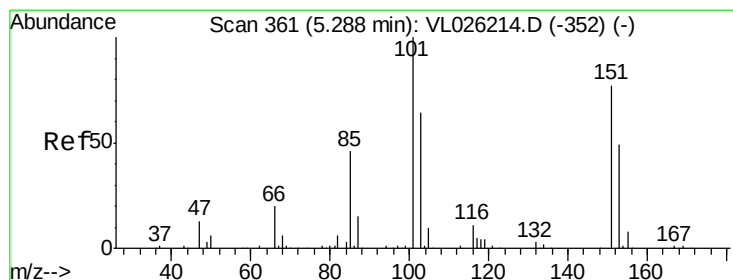
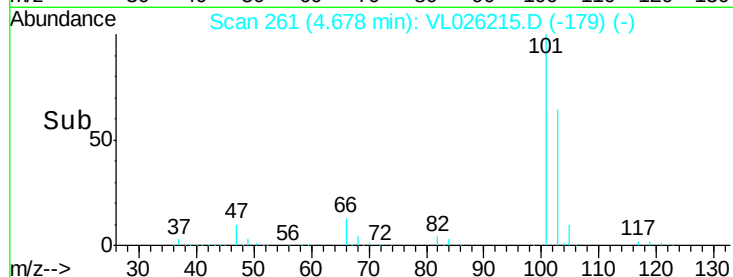
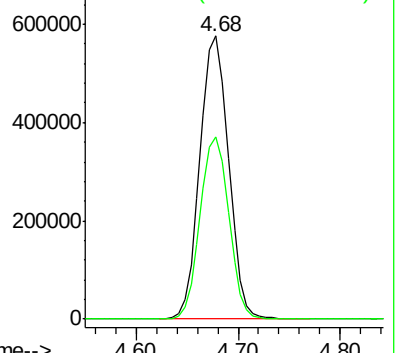
101 100

103 64.5 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.36 ppbv

RT: 5.29 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL026215.D

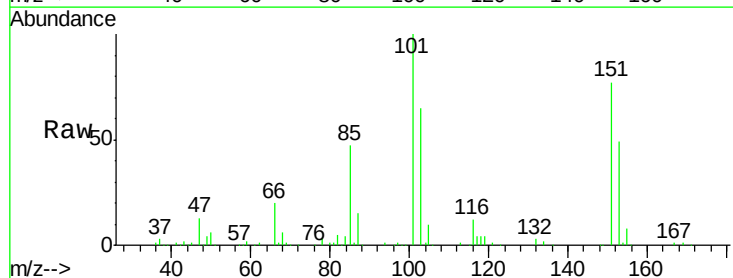
Acq: 20 Oct 2015 19:49

Tgt Ion:101 Resp: 764453

Ion Ratio Lower Upper

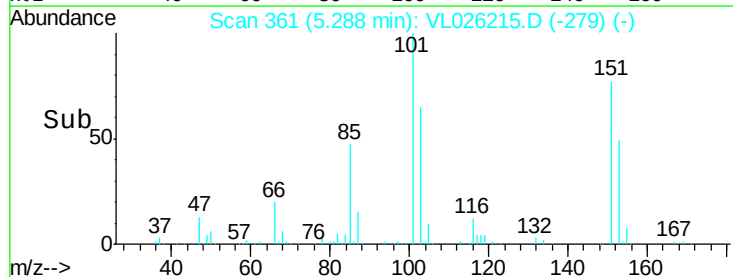
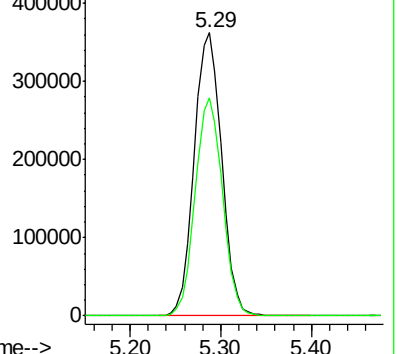
101 100

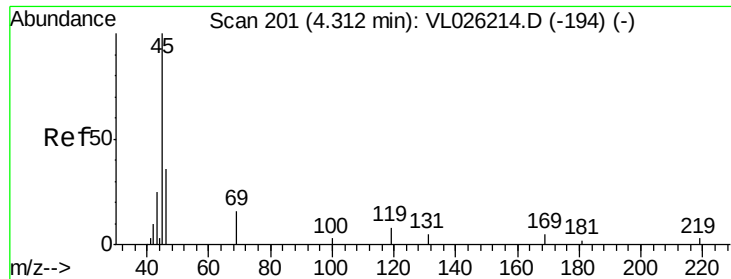
151 76.6 61.7 92.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

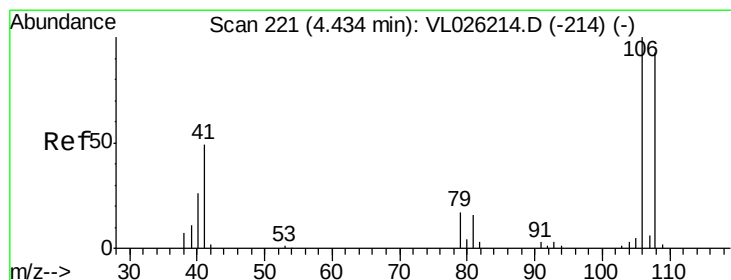
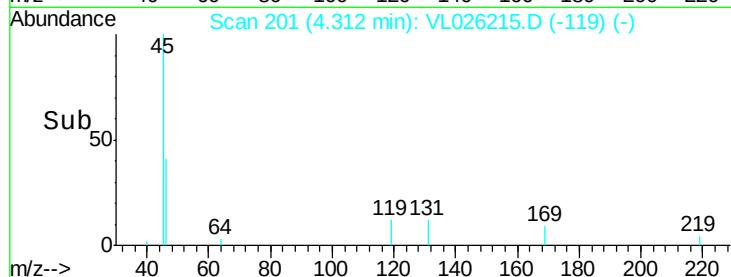
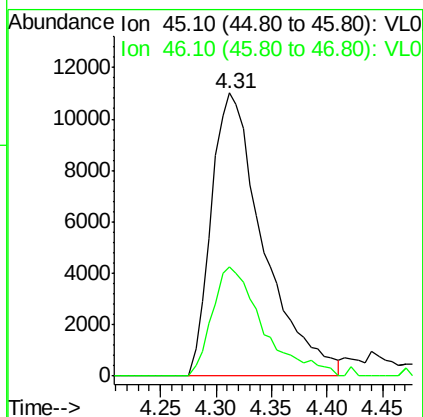
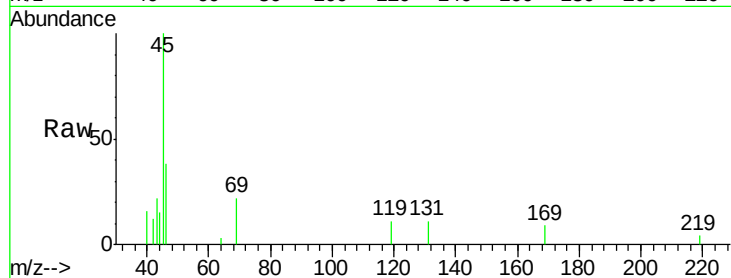




#13
Ethanol
Concen: 7.56 ppbv
RT: 4.31 min Scan# 201
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

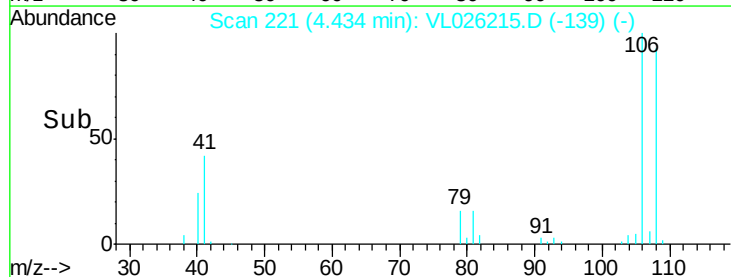
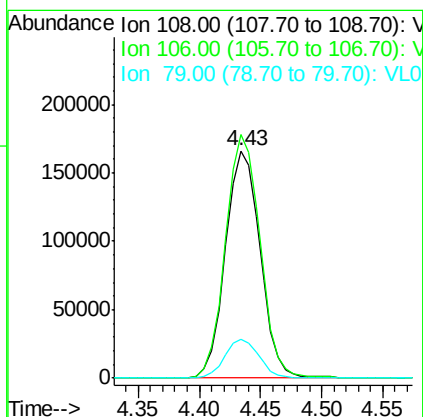
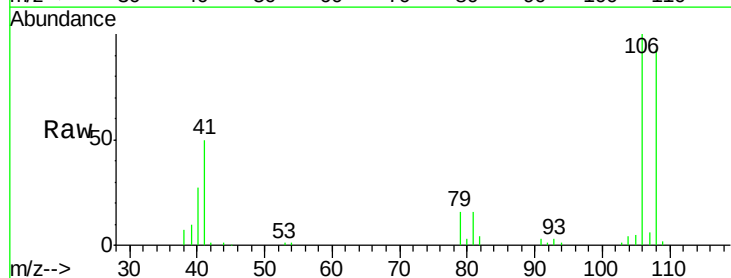
Instrument :
MSVOA_L
ClientSampleId :
ICVVL102015

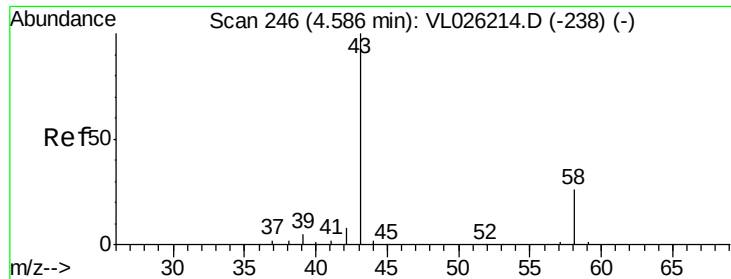
Tot Ion: 45 Resp: 35769
Ion Ratio Lower Upper
45 100
46 37.8 15.8 63.0



#14
Bromoethene
Concen: 10.49 ppbv
RT: 4.43 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Tgt Ion: 108 Resp: 326646
Ion Ratio Lower Upper
108 100
106 106.8 84.7 127.1
79 17.1 14.0 21.0





#15

Acetone

Concen: 8.78 ppbv

RT: 4.58 min Scan# 245

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

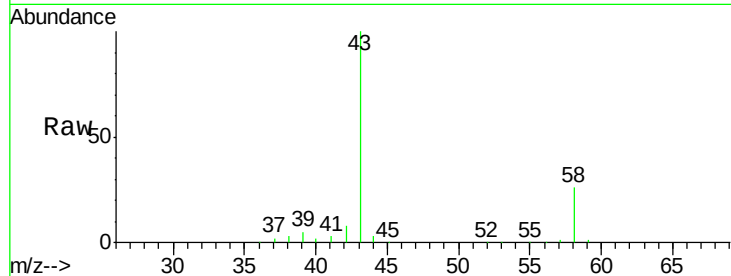
ICVVL102015

Tot Ion: 43 Resp: 687282

Ion Ratio Lower Upper

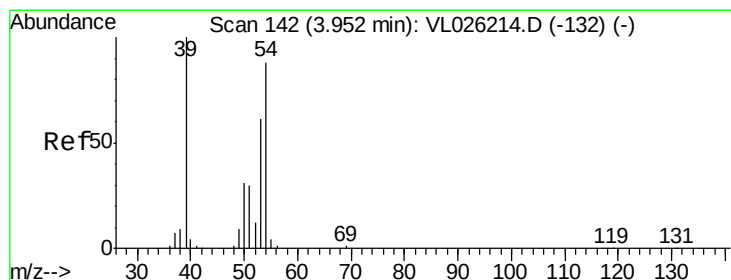
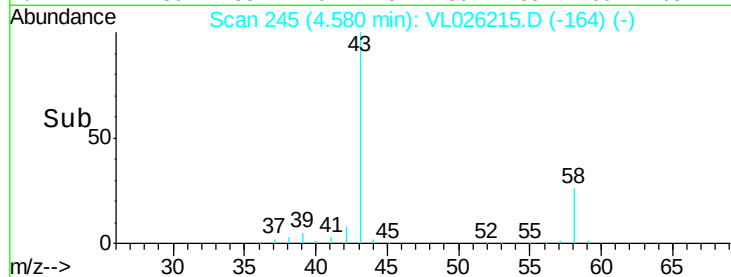
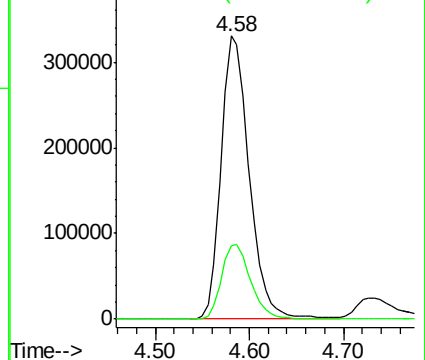
43 100

58 27.4 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.96 ppbv

RT: 3.95 min Scan# 142

Delta R.T. -0.00 min

Lab File: VL026215.D

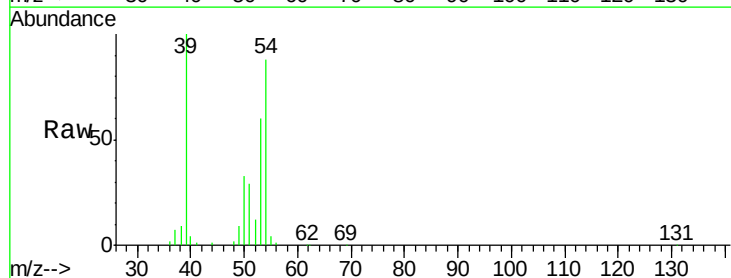
Acq: 20 Oct 2015 19:49

Tgt Ion: 39 Resp: 347935

Ion Ratio Lower Upper

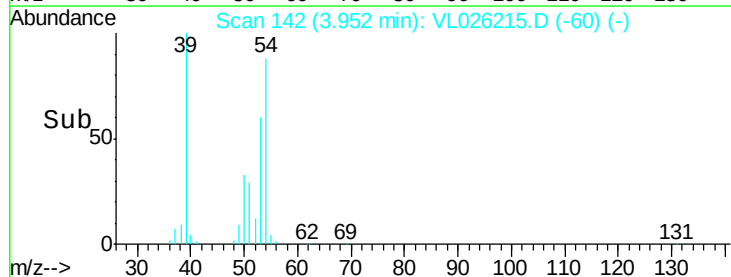
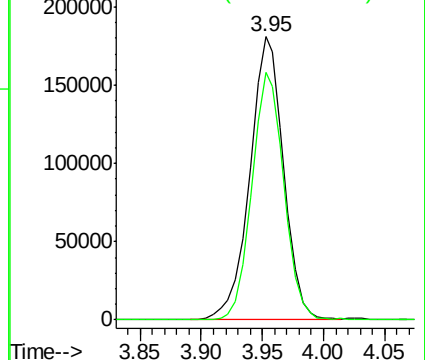
39 100

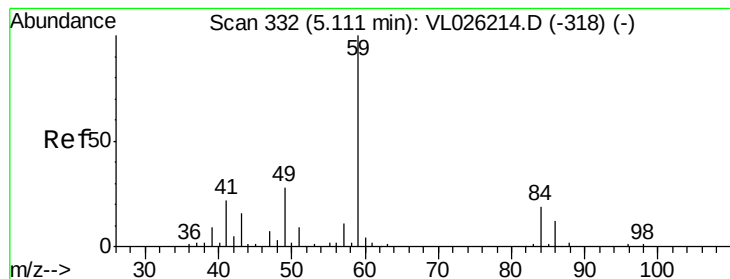
54 82.9 67.3 100.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 12.74 ppbv

RT: 5.10 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

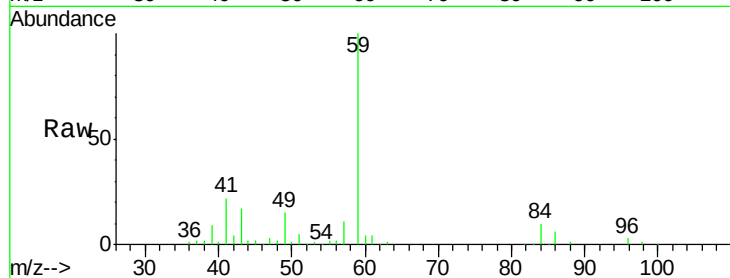
ICVVL102015

Tot Ion: 59 Resp: 681834

Ion Ratio Lower Upper

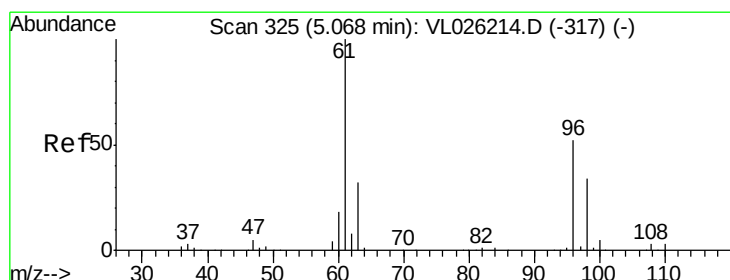
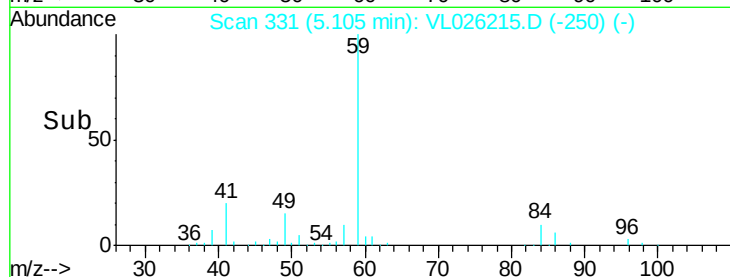
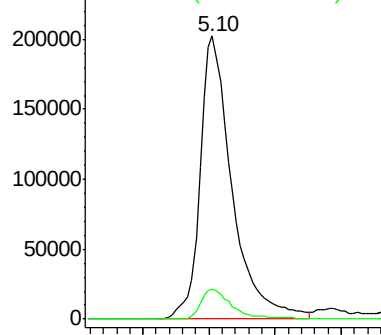
59 100

57 10.6 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 10.64 ppbv

RT: 5.07 min Scan# 325

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

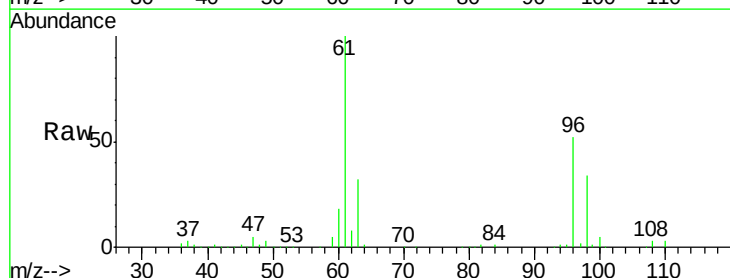
Tgt Ion: 96 Resp: 354686

Ion Ratio Lower Upper

96 100

61 191.3 153.7 230.5

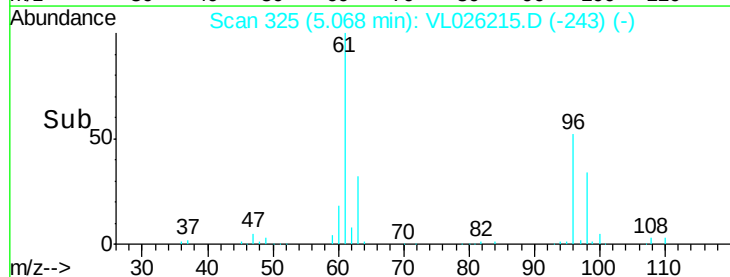
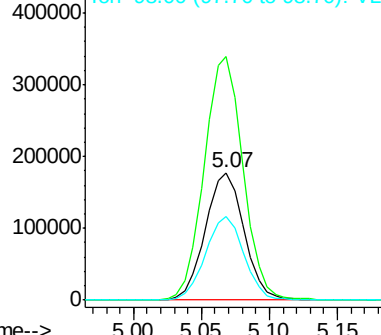
98 65.4 51.6 77.4

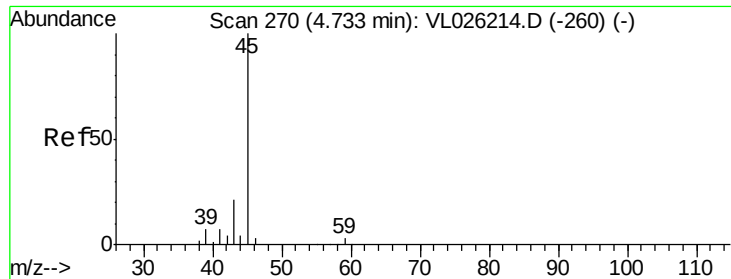


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 11.12 ppbv

RT: 4.73 min Scan# 270

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

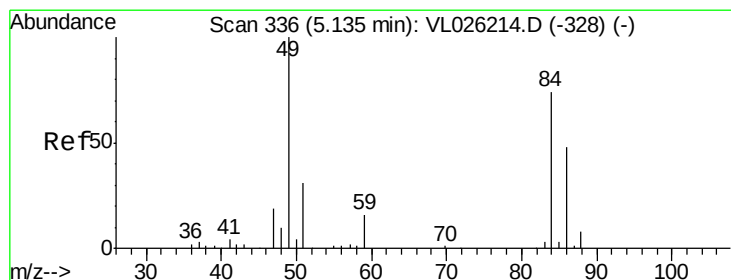
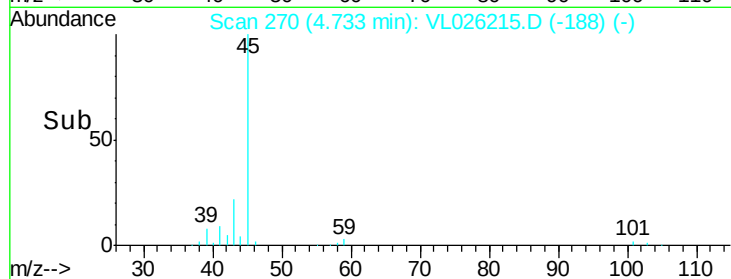
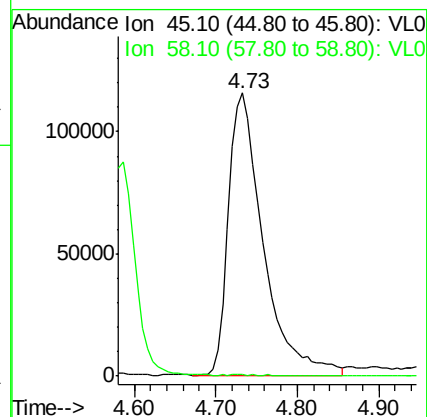
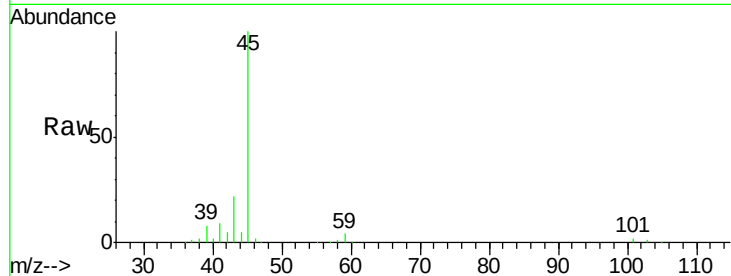
ICVVL102015

Tot Ion: 45 Resp: 340420

Ion Ratio Lower Upper

45 100

58 55.4 40.3 60.5



#20

Methylene Chloride

Concen: 10.29 ppbv

RT: 5.13 min Scan# 335

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Tgt Ion: 84 Resp: 321592

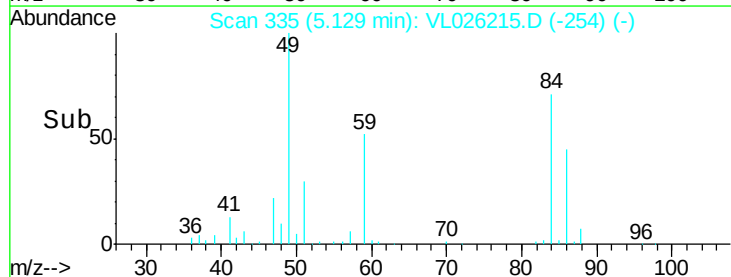
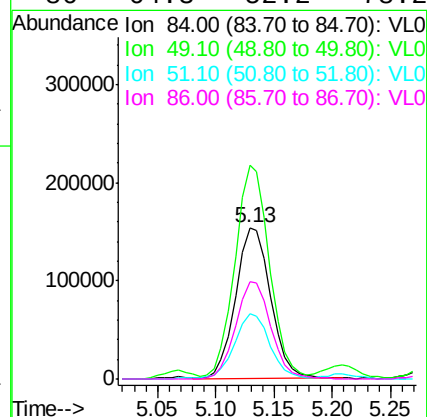
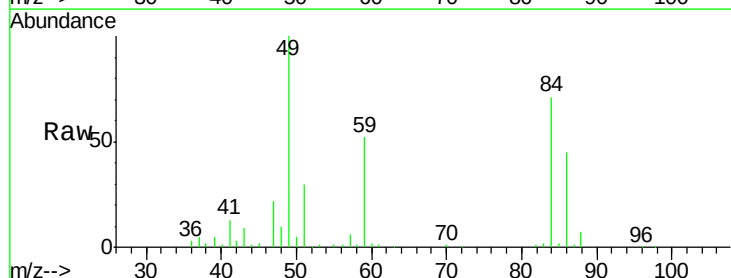
Ion Ratio Lower Upper

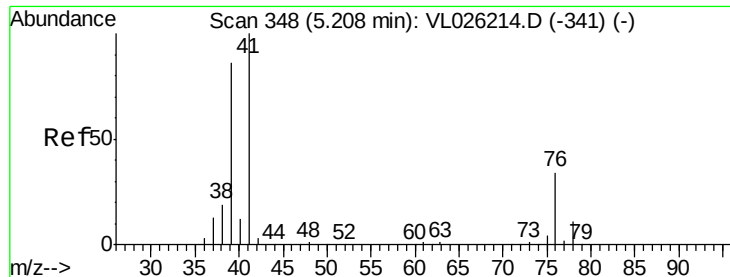
84 100

49 138.9 108.7 163.1

51 42.7 33.7 50.5

86 64.3 52.2 78.2

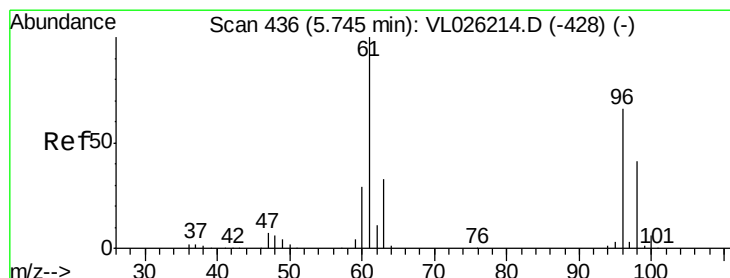
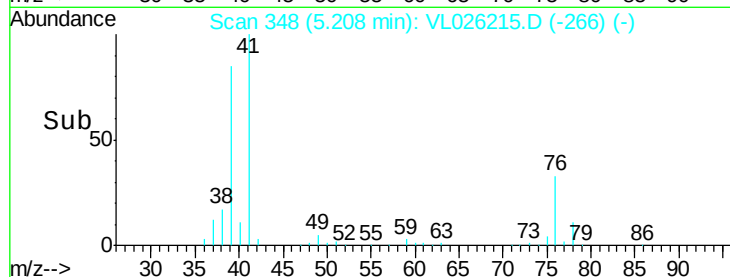
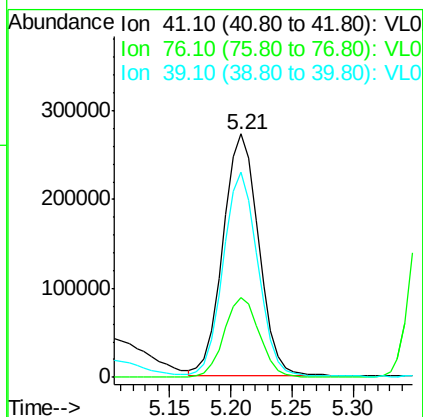
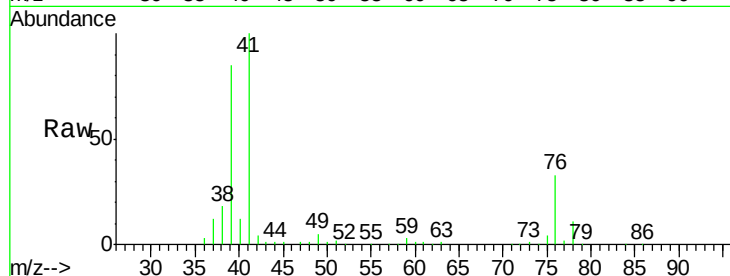




#21
Allvl Chloride
Concen: 10.74 ppbv
RT: 5.21 min Scan# 348
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

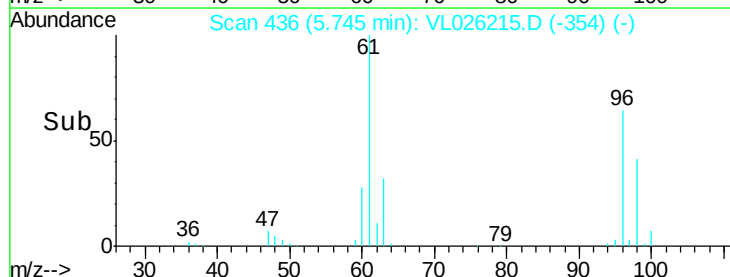
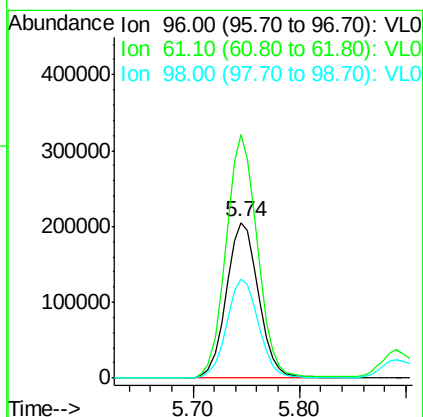
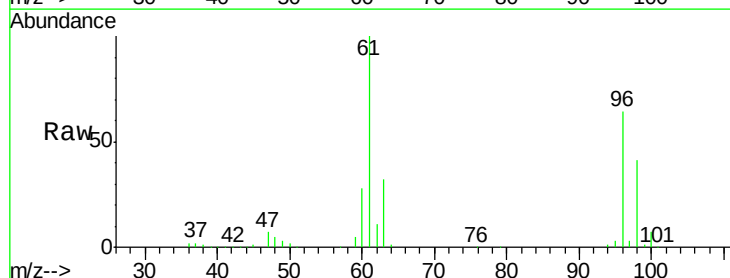
Instrument :
MSVOA_L
ClientSampleId :
ICVVL102015

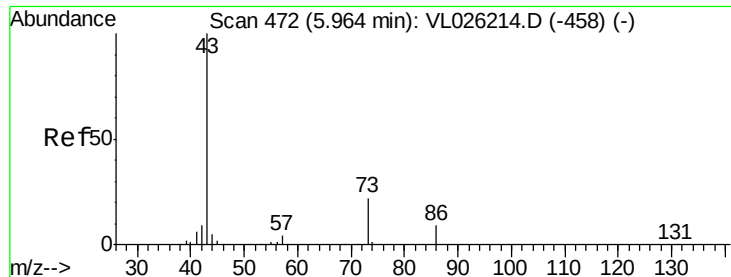
Tot Ion: 41 Resp: 549155
Ion Ratio Lower Upper
41 100
76 32.8 26.6 39.8
39 82.8 67.4 101.2



#22
trans-1,2-Dichloroethene
Concen: 10.11 ppbv
RT: 5.74 min Scan# 436
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Tgt Ion: 96 Resp: 434595
Ion Ratio Lower Upper
96 100
61 156.7 121.5 182.3
98 63.8 49.7 74.5





#23

Vinyl Acetate

Concen: 9.94 ppbv

RT: 5.96 min Scan# 472

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

Tot Ion: 43 Resp: 1435153

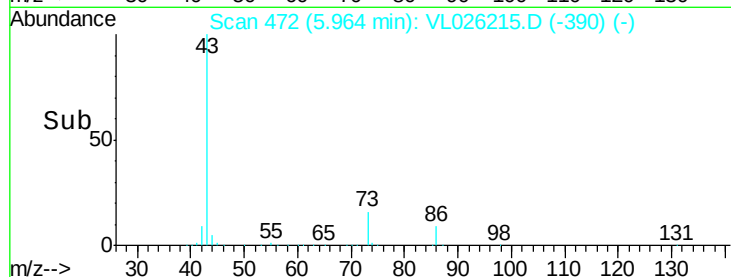
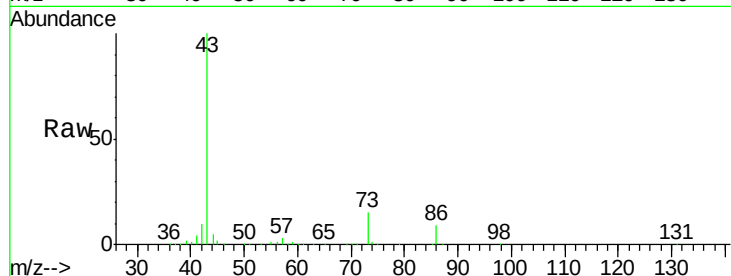
Ion	Ratio	Lower	Upper
43	100		
86	9.0	7.0	10.6
42	9.5	7.5	11.3
44	4.8	3.6	5.4

43 100

86 9.0 7.0 10.6

42 9.5 7.5 11.3

44 4.8 3.6 5.4

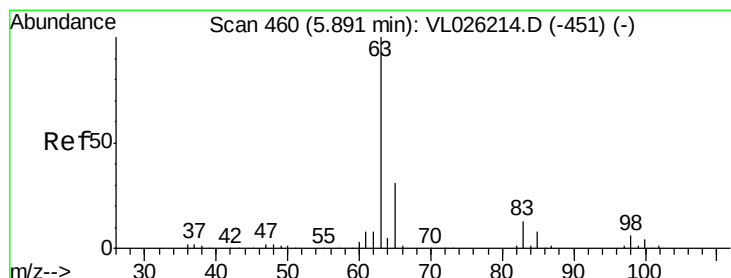
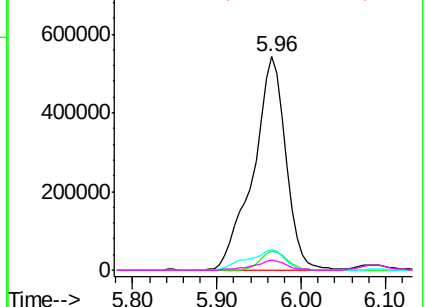


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.94 ppbv

RT: 5.89 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

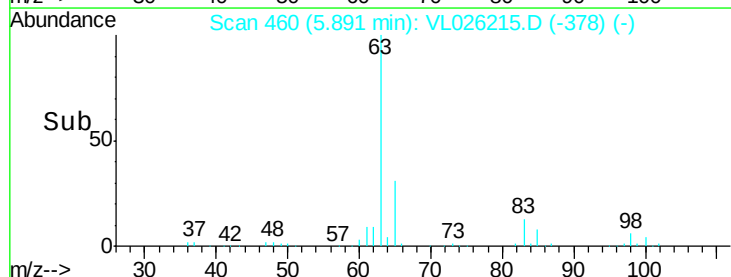
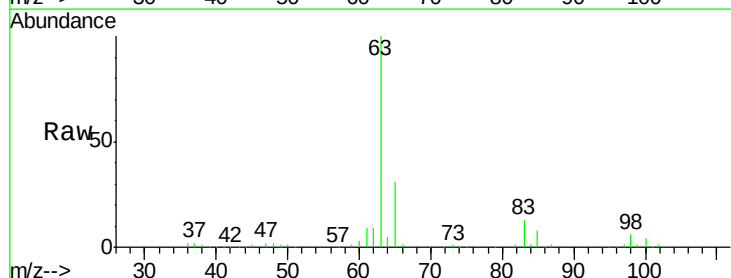
Tgt Ion: 63 Resp: 905245

Ion	Ratio	Lower	Upper
63	100		
98	6.0	2.9	8.8
100	3.7	1.8	5.5

63 100

98 6.0 2.9 8.8

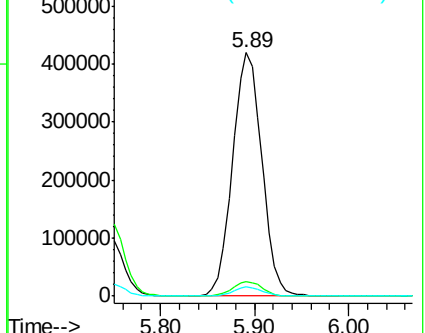
100 3.7 1.8 5.5

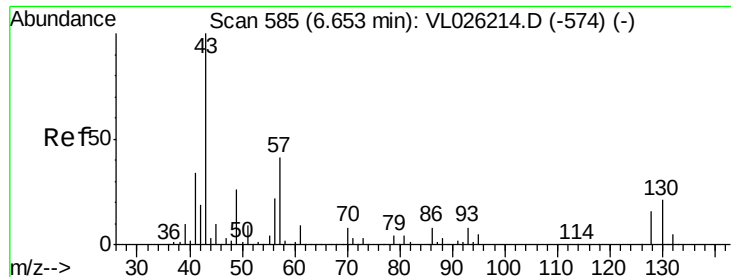


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.68 ppbv

RT: 6.65 min Scan# 584

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

Tot Ion: 43 Resp: 1420550

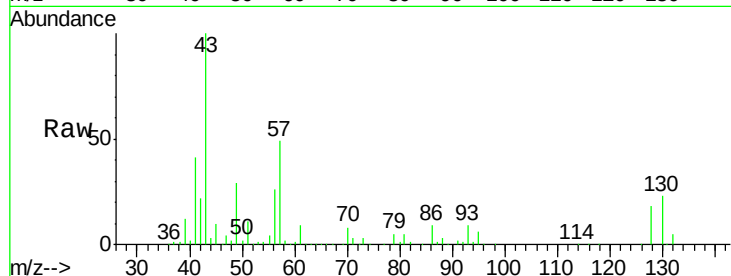
Ion Ratio Lower Upper

43 100

45 9.6 7.7 11.5

61 9.4 7.5 11.3

70 8.6 6.9 10.3

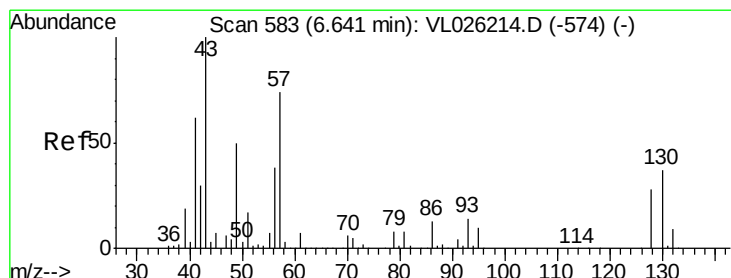
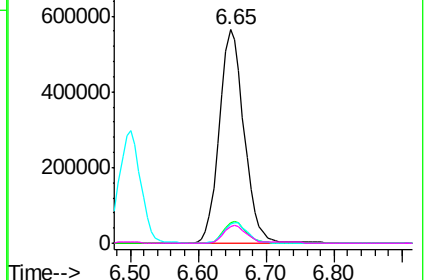
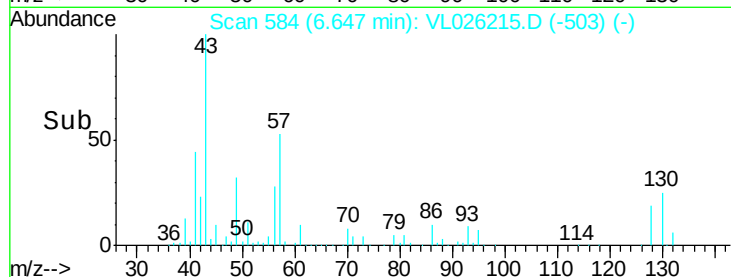


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.60 ppbv

RT: 6.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Tgt Ion: 57 Resp: 704334

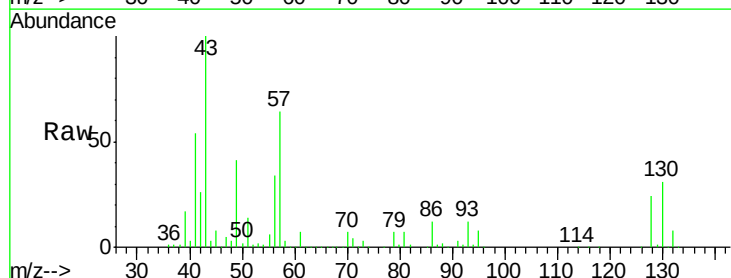
Ion Ratio Lower Upper

57 100

41 85.4 68.1 102.1

43 202.6 163.4 245.2

56 52.7 42.2 63.4

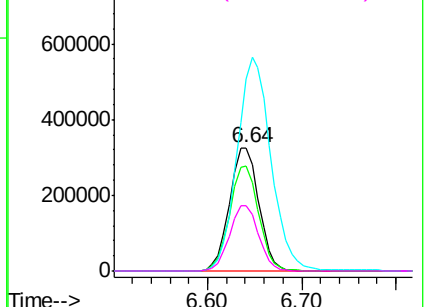
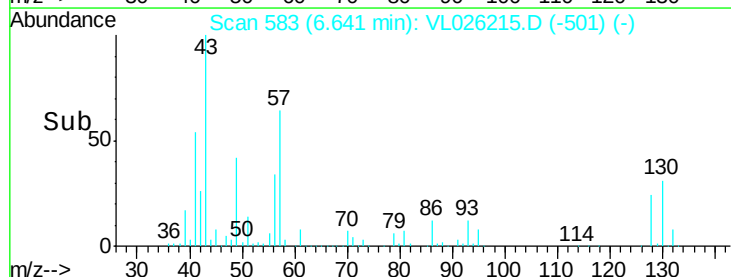


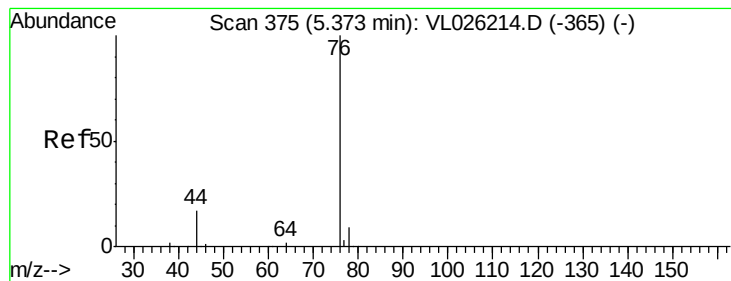
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.69 ppbv

RT: 5.37 min Scan# 374

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

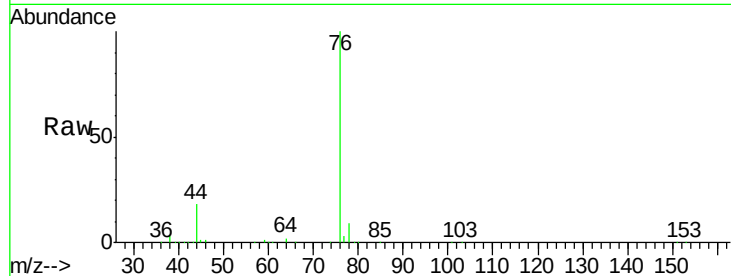
Tot Ion: 76 Resp: 1002340

Ion Ratio Lower Upper

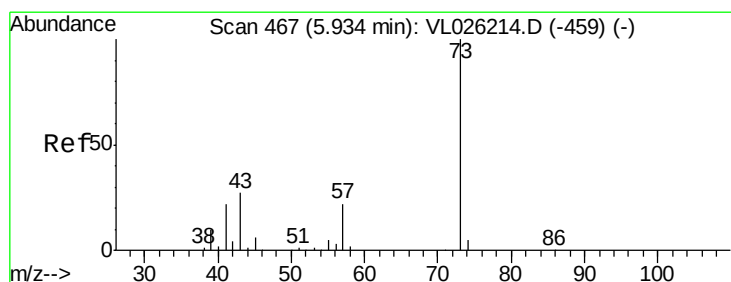
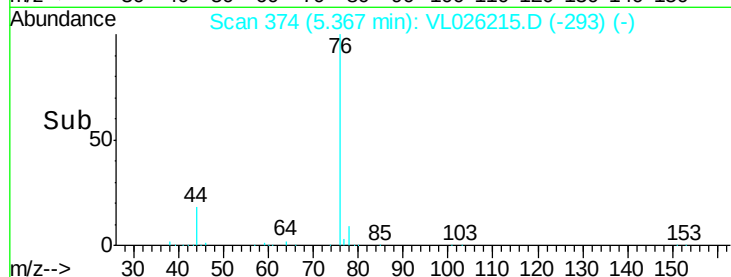
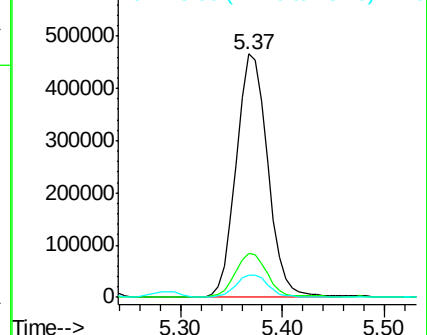
76 100

44 19.0 14.0 21.0

78 9.6 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.03 ppbv

RT: 5.93 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL026215.D

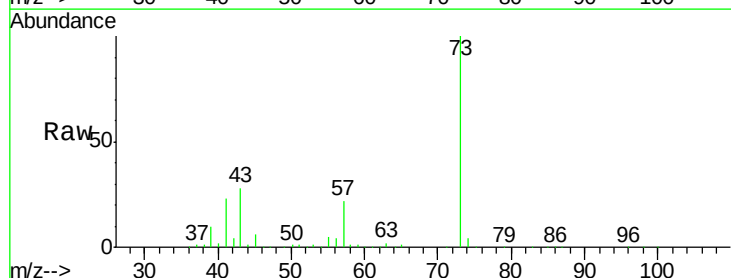
Acq: 20 Oct 2015 19:49

Tgt Ion: 73 Resp: 1337326

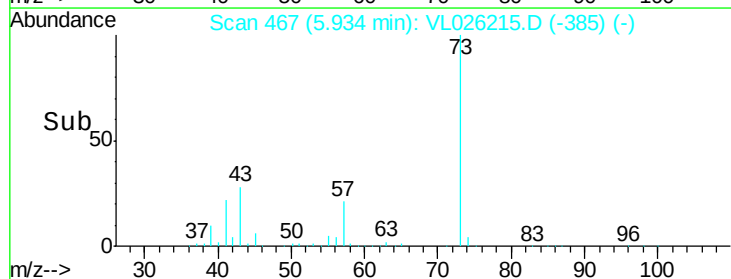
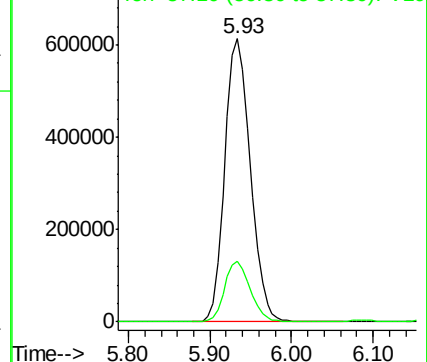
Ion Ratio Lower Upper

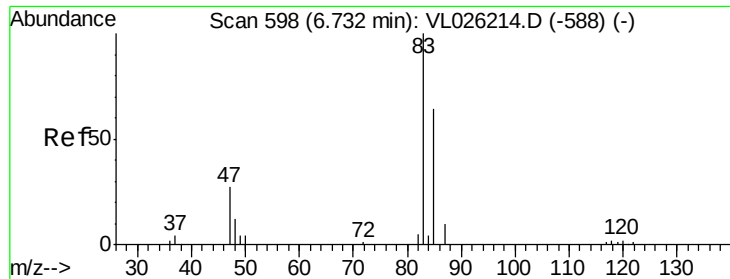
73 100

57 21.2 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

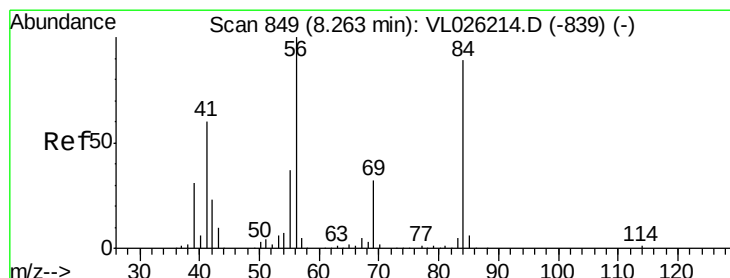
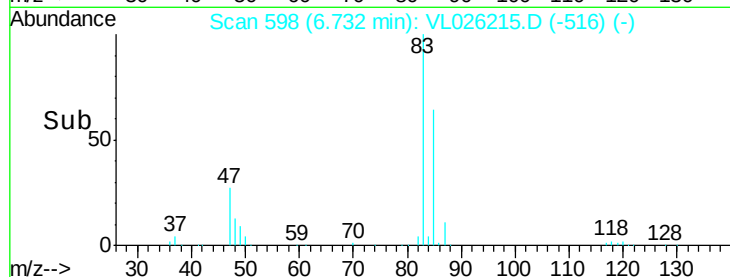
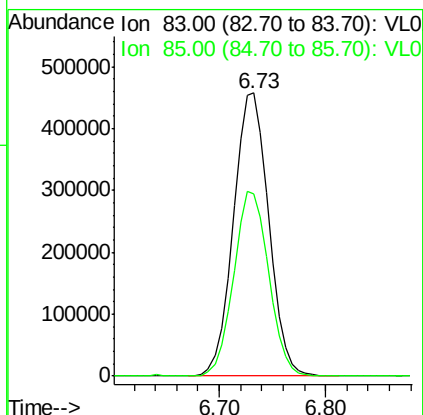
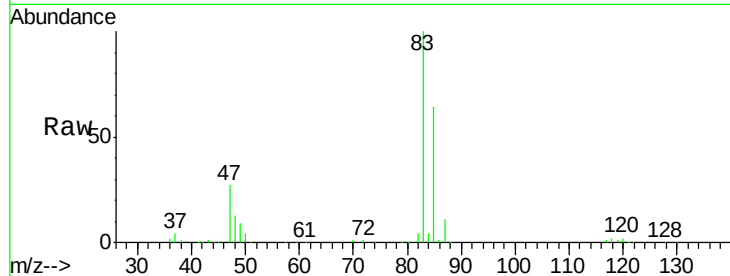




#29
Chloroform
Concen: 10.00 ppbv
RT: 6.73 min Scan# 598
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

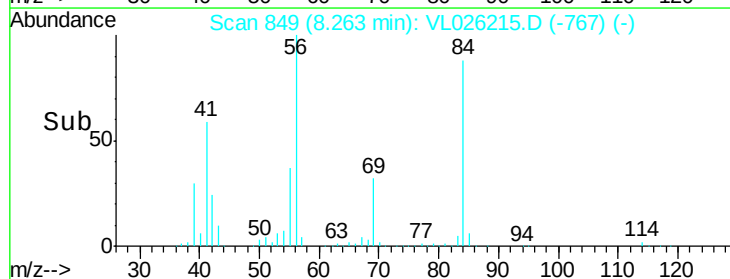
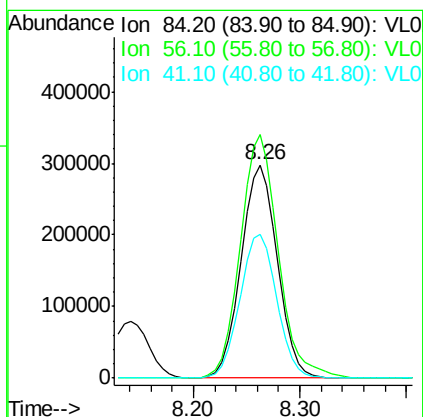
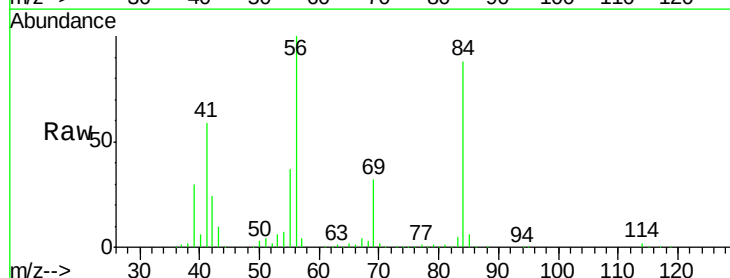
Instrument :
MSVOA_L
ClientSampleId :
ICVVL102015

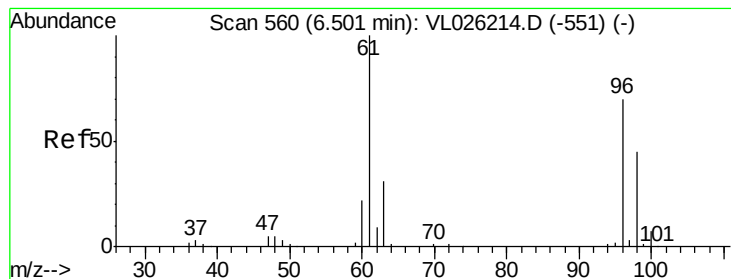
Tot Ion: 83 Resp: 1064851
Ion Ratio Lower Upper
83 100
85 64.5 51.5 77.3



#30
Cyclohexane
Concen: 9.70 ppbv
RT: 8.26 min Scan# 849
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Tgt Ion: 84 Resp: 712019
Ion Ratio Lower Upper
84 100
56 119.6 95.9 143.9
41 68.8 54.8 82.2





#31

cis-1,2-Dichloroethene

Concen: 10.04 ppbv

RT: 6.50 min Scan# 560

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

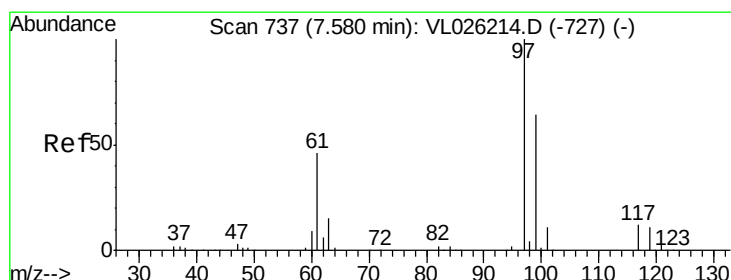
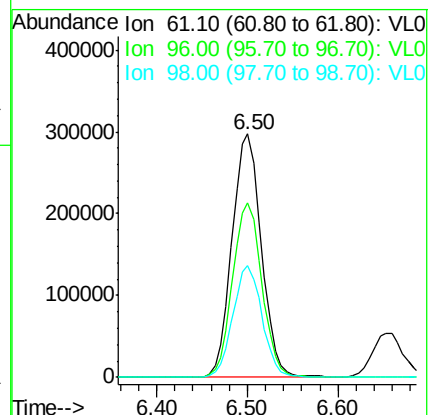
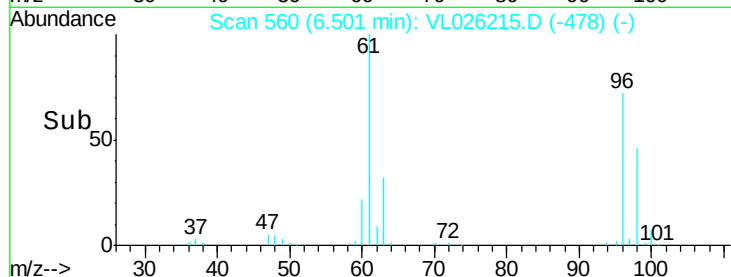
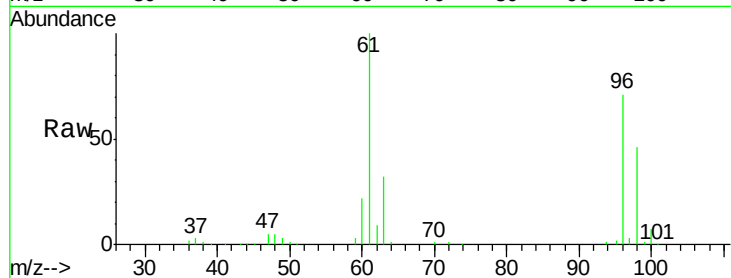
Tot Ion: 61 Resp: 668614

Ion Ratio Lower Upper

61 100

96 71.4 56.0 84.0

98 46.1 36.1 54.1



#32

1,1,1-Trichloroethane

Concen: 9.68 ppbv

RT: 7.57 min Scan# 736

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

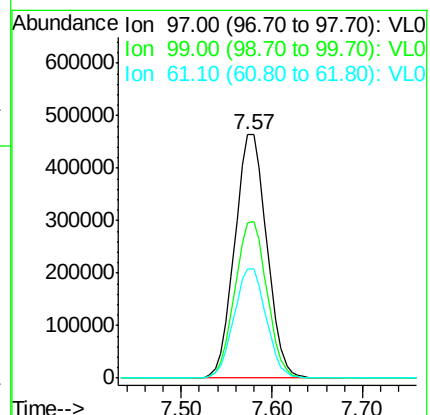
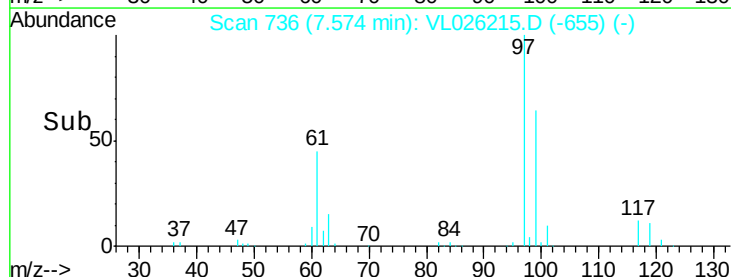
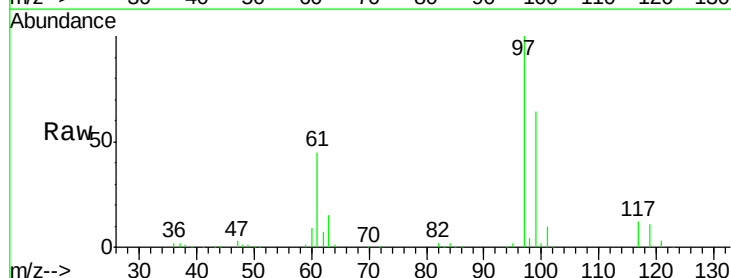
Tgt Ion: 97 Resp: 1142742

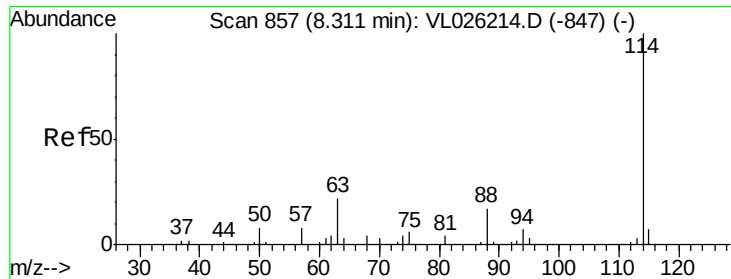
Ion Ratio Lower Upper

97 100

99 64.3 51.4 77.0

61 45.1 36.2 54.4

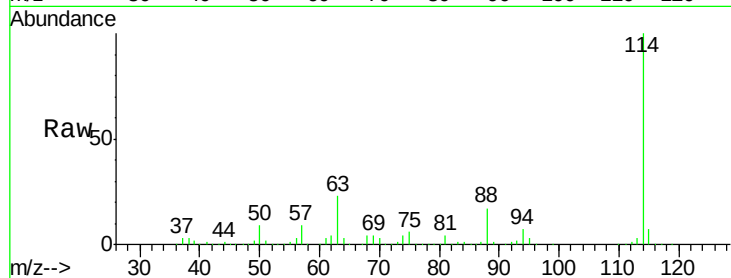




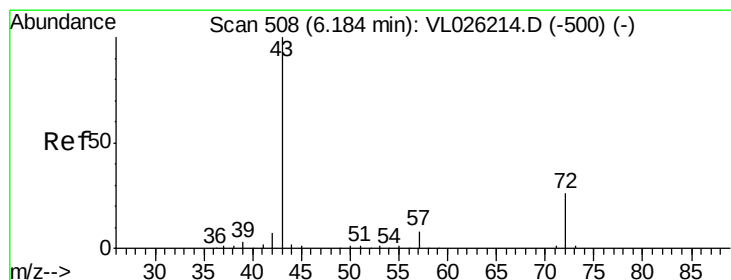
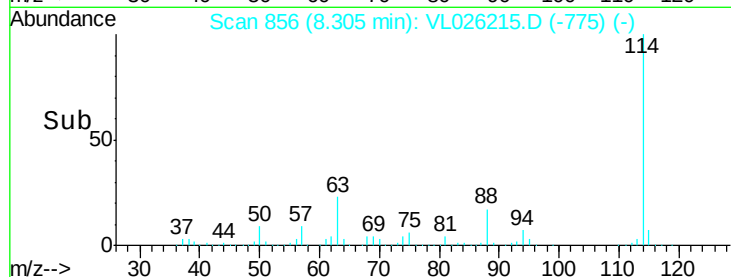
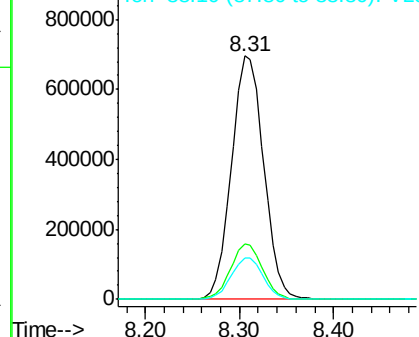
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.31 min Scan# 856
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102015

Tot Ion:114 Resp: 1659053
 Ion Ratio Lower Upper
 114 100
 63 22.7 18.2 27.4
 88 17.0 13.5 20.3

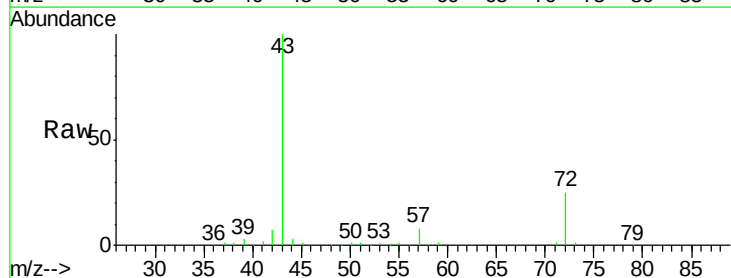


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

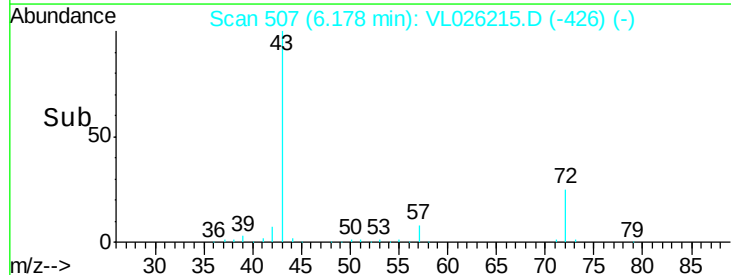
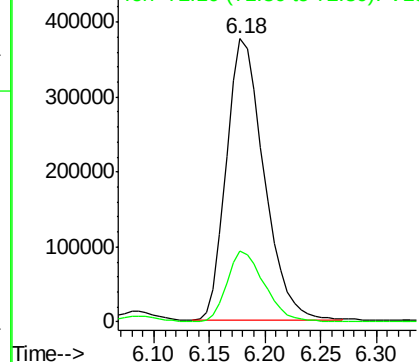


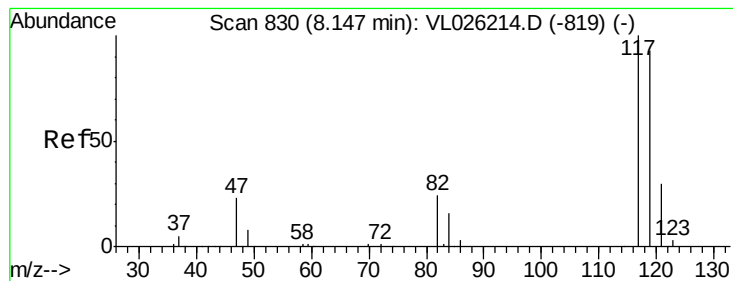
#34
 2-Butanone
 Concen: 9.36 ppbv
 RT: 6.18 min Scan# 507
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

Tgt Ion: 43 Resp: 877354
 Ion Ratio Lower Upper
 43 100
 72 25.4 20.1 30.1



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 9.43 ppbv

RT: 8.14 min Scan# 829

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

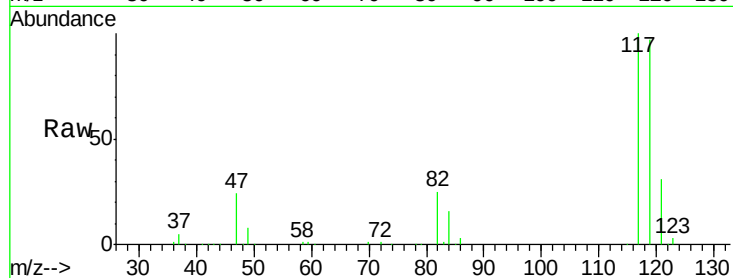
Tot Ion:117 Resp: 1191423

Ion Ratio Lower Upper

117 100

119 97.4 74.6 111.8

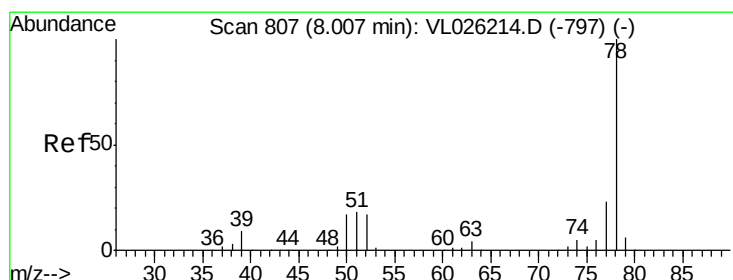
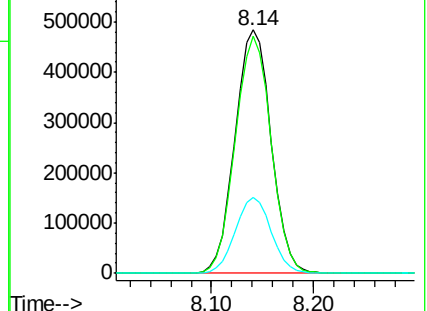
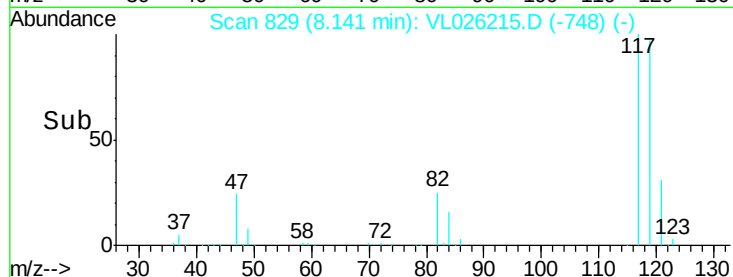
121 31.0 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.44 ppbv

RT: 8.00 min Scan# 806

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

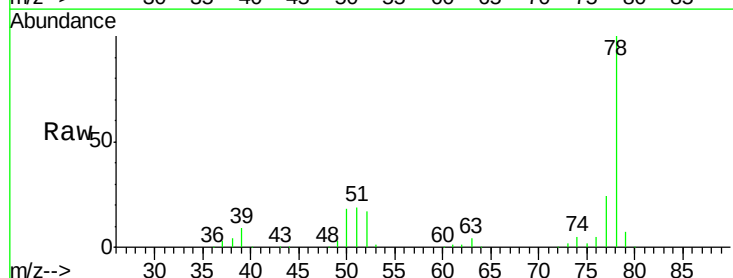
Tgt Ion: 78 Resp: 1594133

Ion Ratio Lower Upper

78 100

77 23.5 18.1 27.1

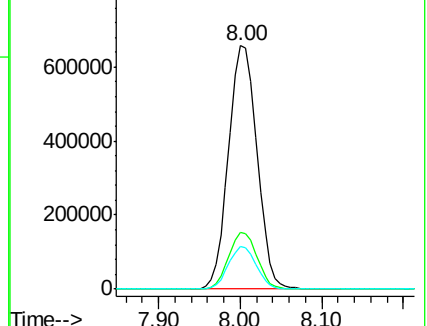
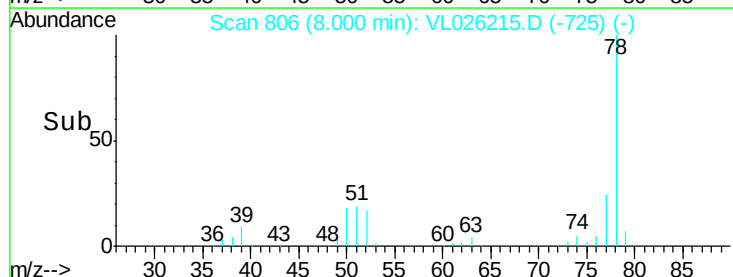
50 17.7 13.8 20.8

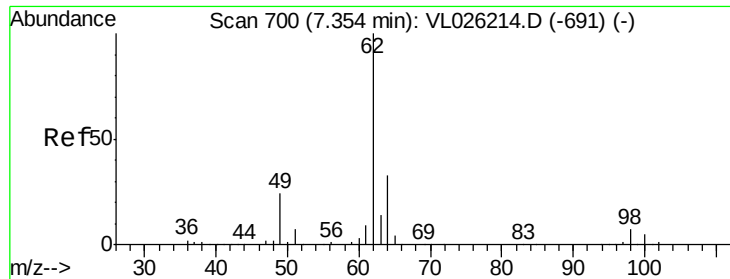


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

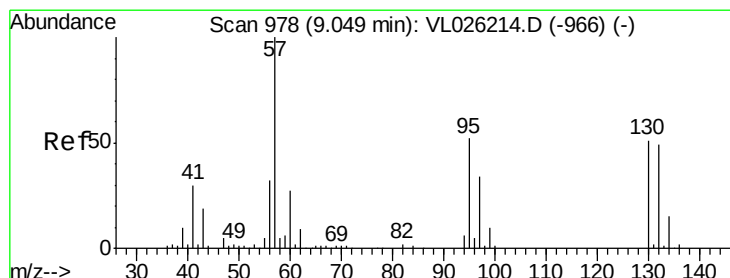
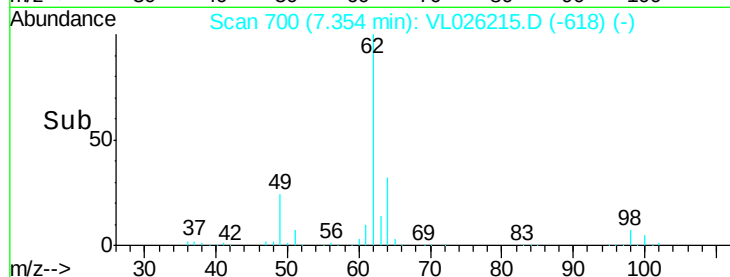
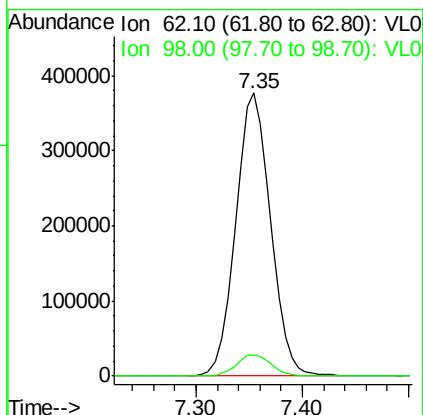
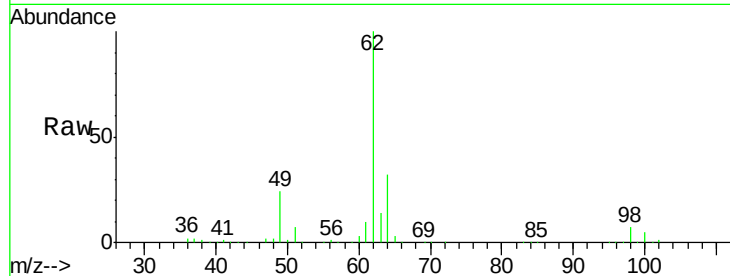




#37
 1,2-Dichloroethane
 Concen: 9.97 ppbv
 RT: 7.35 min Scan# 700
 Delta R.T. -0.00 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

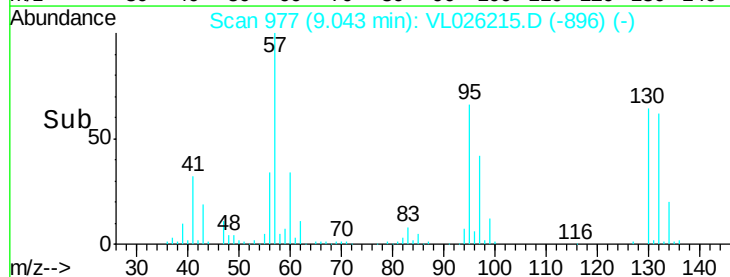
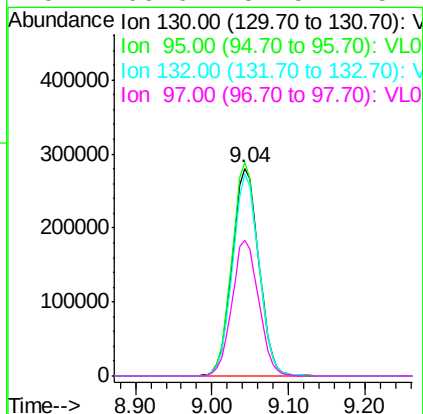
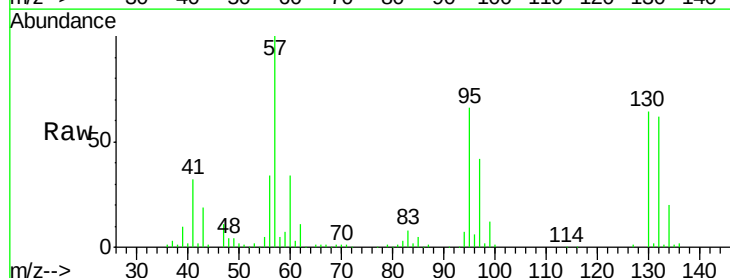
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102015

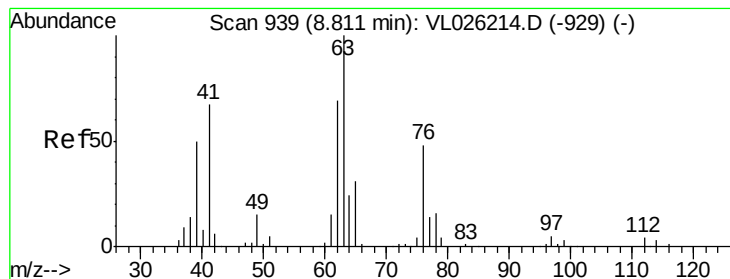
Tot Ion: 62 Resp: 866175
 Ion Ratio Lower Upper
 62 100
 98 7.7 6.1 9.1



#38
 Trichloroethene
 Concen: 8.30 ppbv
 RT: 9.04 min Scan# 977
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

Tgt Ion: 130 Resp: 680557
 Ion Ratio Lower Upper
 130 100
 95 103.0 81.0 121.4
 132 97.5 76.5 114.7
 97 65.6 52.5 78.7





#39

1,2-Dichloropropane

Concen: 9.43 ppbv

RT: 8.81 min Scan# 938

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

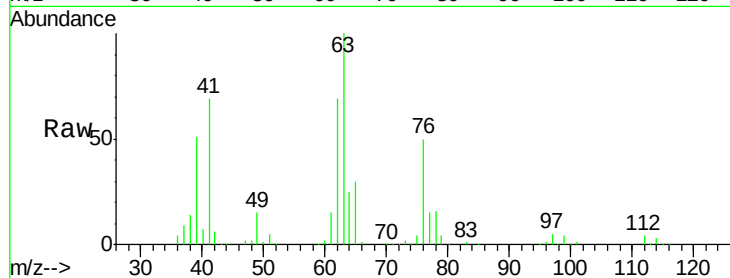
Tot Ion: 63 Resp: 560327

Ion Ratio Lower Upper

63 100

41 68.3 53.2 79.8

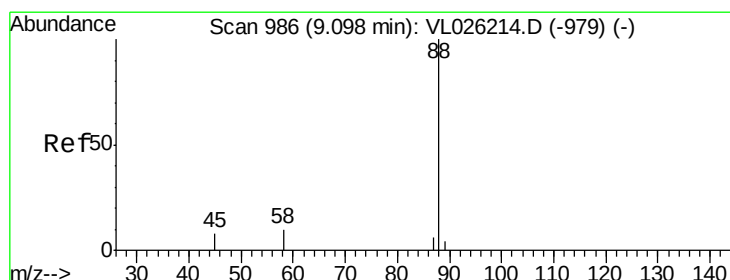
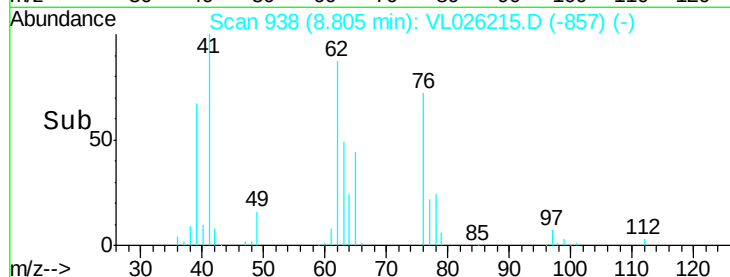
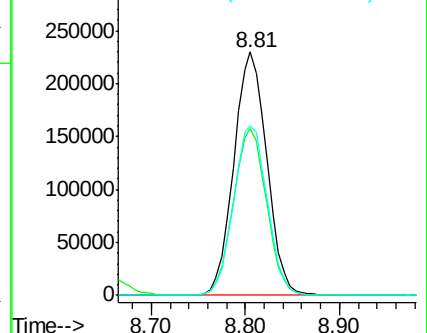
62 69.5 55.4 83.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 8.94 ppbv

RT: 9.10 min Scan# 986

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Tgt Ion: 88 Resp: 99837

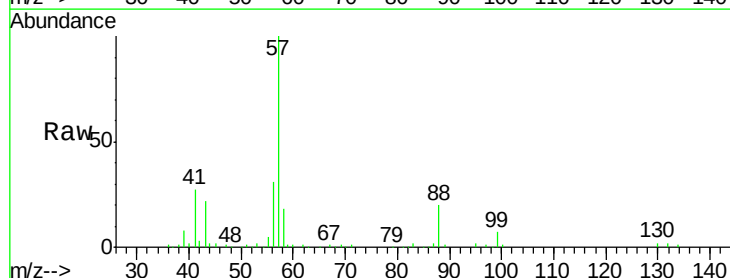
Ion Ratio Lower Upper

88 100

58 181.0 115.4 173.2#

43 495.5 272.6 409.0#

57 2514.6 1356.1 2034.1#

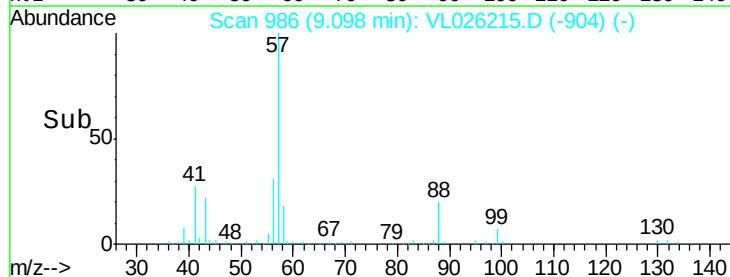
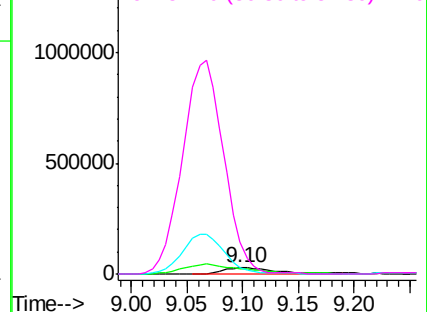


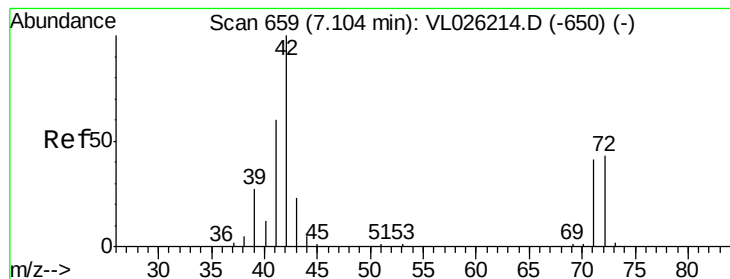
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 9.68 ppbv

RT: 7.10 min Scan# 658

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

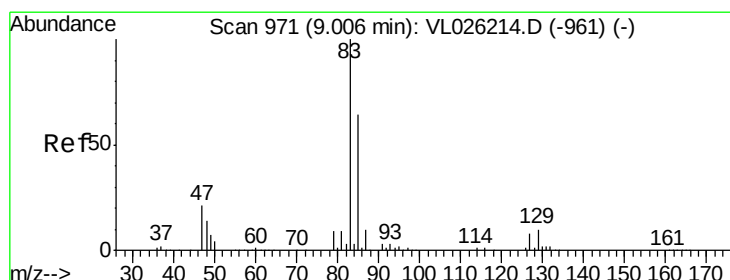
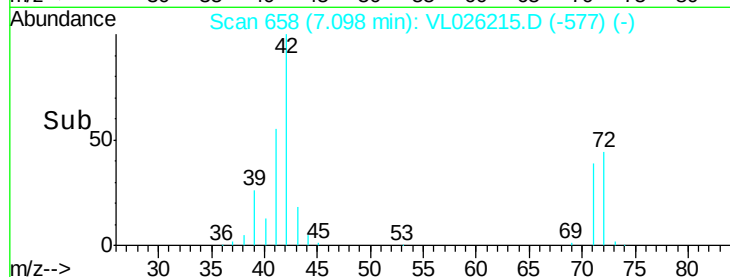
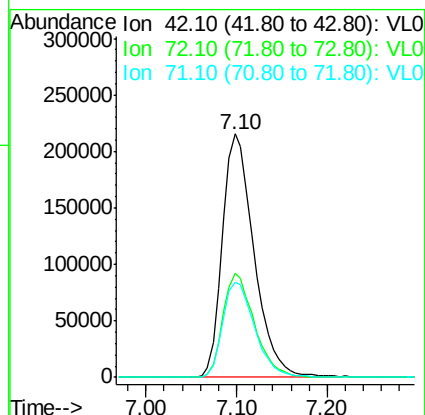
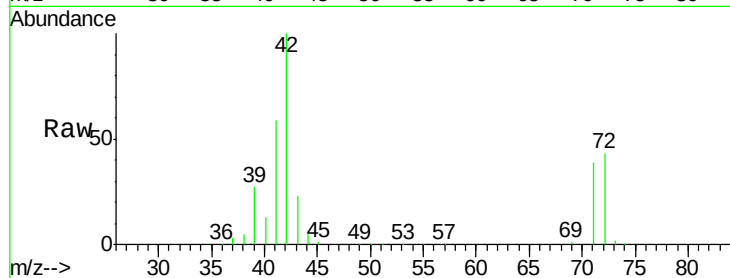
Tot Ion: 42 Resp: 525456

Ion Ratio Lower Upper

42 100

72 42.5 34.3 51.5

71 39.9 32.1 48.1



#42

Bromodichloromethane

Concen: 9.78 ppbv

RT: 9.01 min Scan# 971

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

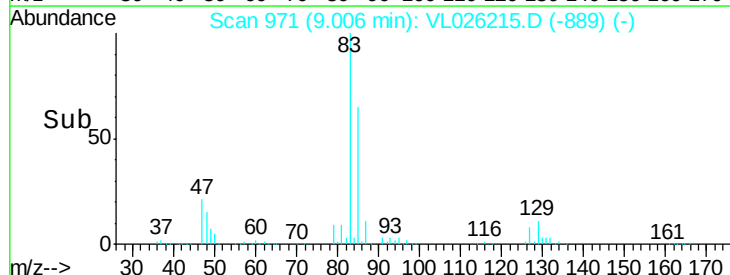
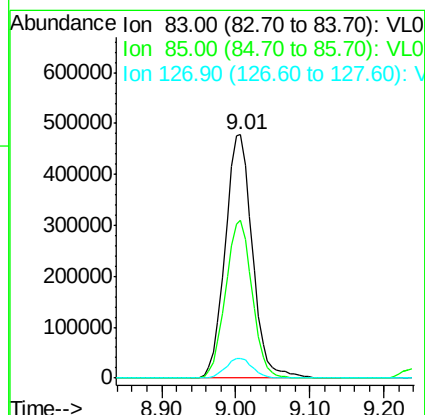
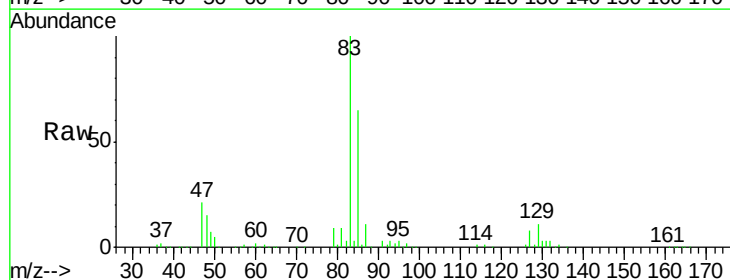
Tgt Ion: 83 Resp: 1221454

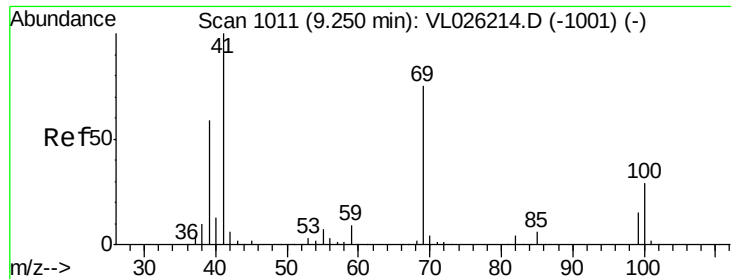
Ion Ratio Lower Upper

83 100

85 65.0 50.9 76.3

127 8.0 6.2 9.4

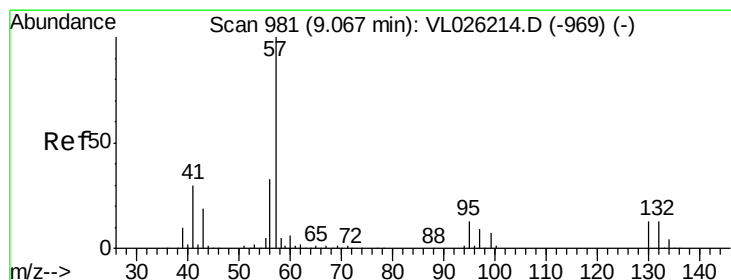
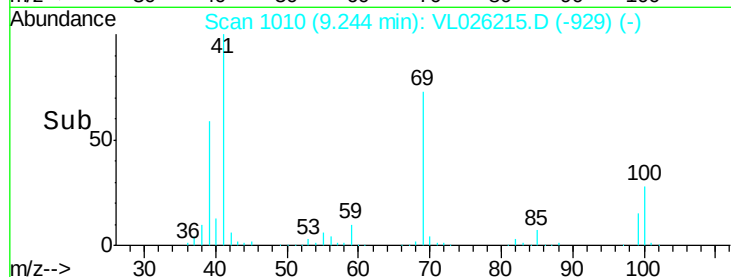
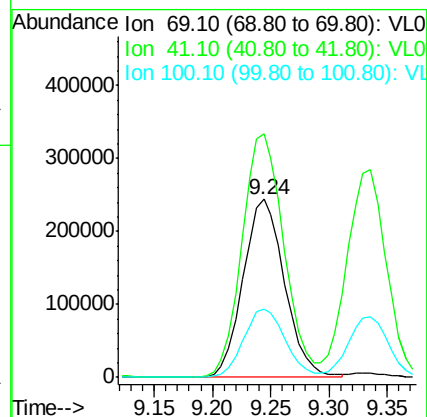
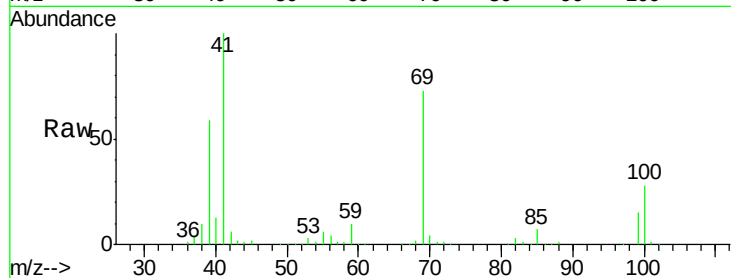




#43
Methyl Methacrylate
Concen: 9.87 ppbv
RT: 9.24 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

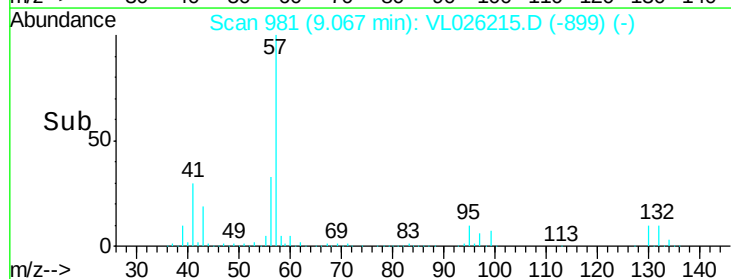
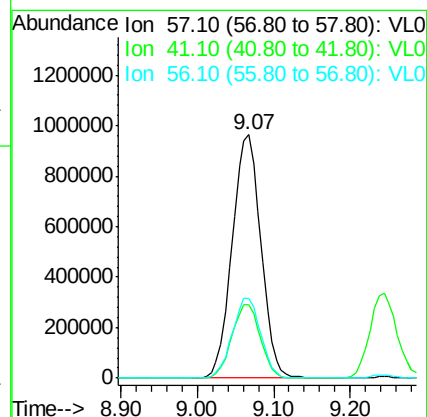
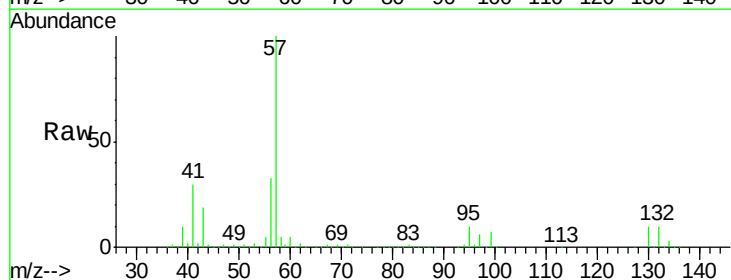
Instrument :
MSVOA_L
ClientSampleId :
ICVVL102015

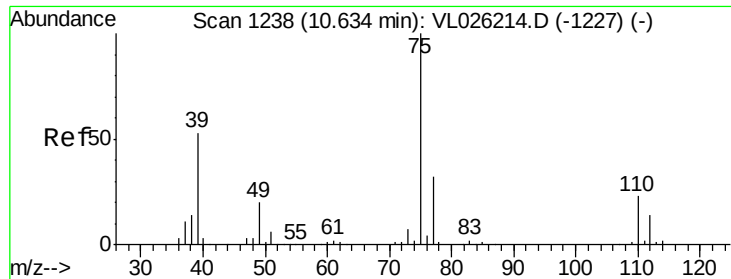
Tot Ion: 69 Resp: 606909
Ion Ratio Lower Upper
69 100
41 137.9 108.4 162.6
100 38.8 30.6 45.8



#44
2,2,4-Trimethylpentane
Concen: 9.17 ppbv
RT: 9.07 min Scan# 981
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Tgt Ion: 57 Resp: 2509803
Ion Ratio Lower Upper
57 100
41 29.9 23.7 35.5
56 32.5 25.9 38.9

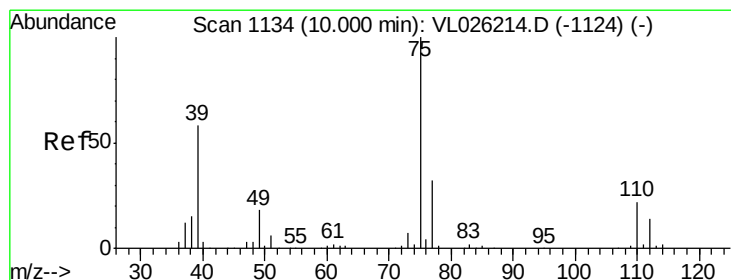
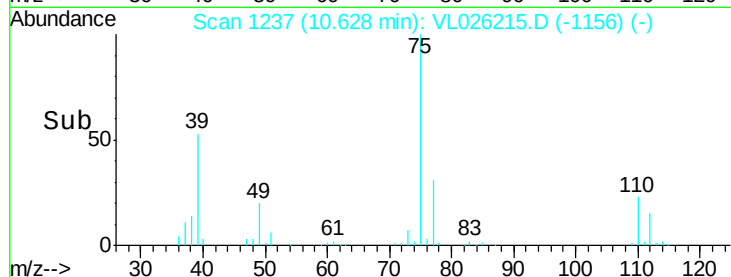
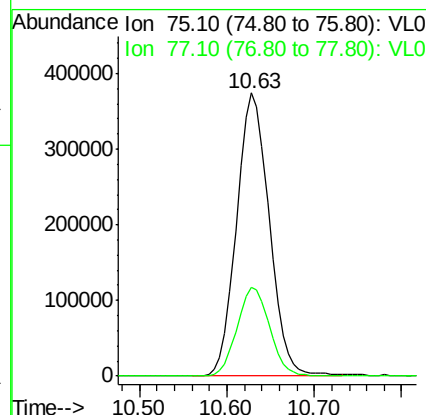
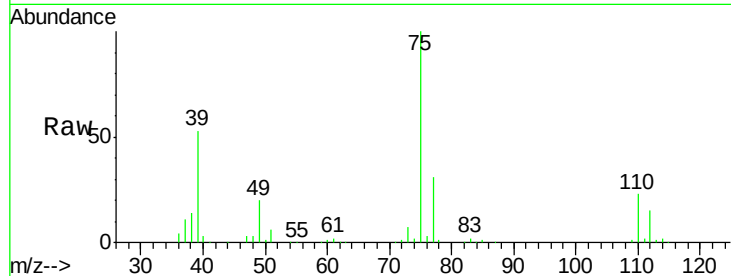




#45
 t-1,3-Dichloropropene
 Concen: 10.17 ppbv
 RT: 10.63 min Scan# 1237
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

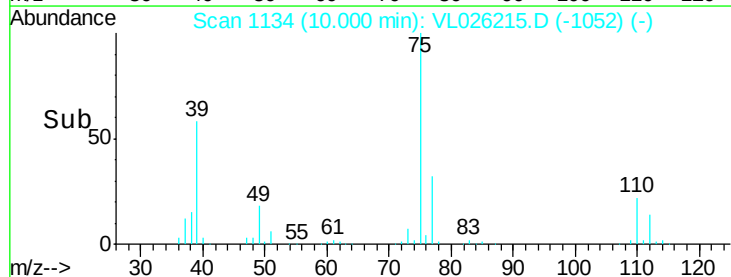
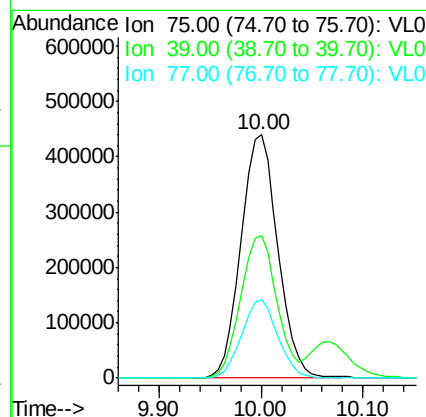
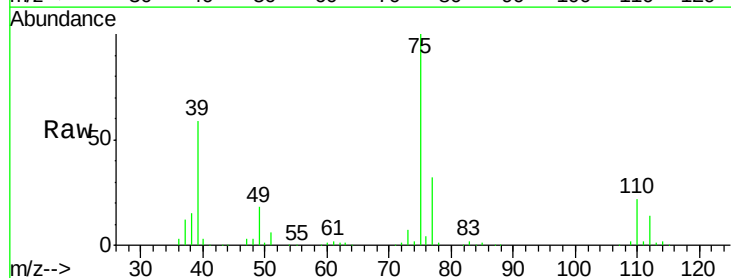
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102015

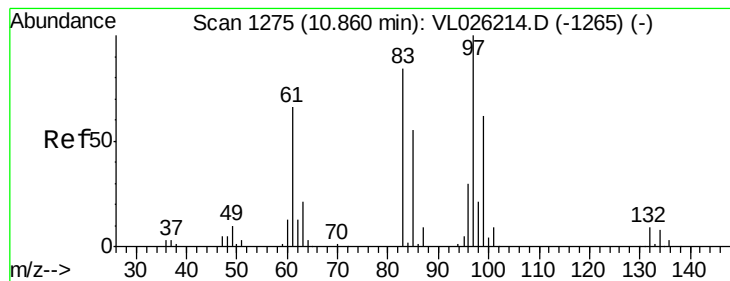
Tot Ion: 75 Resp: 976326
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.2 37.8



#46
 cis-1,3-Dichloropropene
 Concen: 9.85 ppbv
 RT: 10.00 min Scan# 1134
 Delta R.T. -0.00 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

Tgt Ion: 75 Resp: 1106158
 Ion Ratio Lower Upper
 75 100
 39 58.4 46.2 69.4
 77 32.2 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 9.60 ppbv

RT: 10.86 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

Tot Ion: 97 Resp: 716877

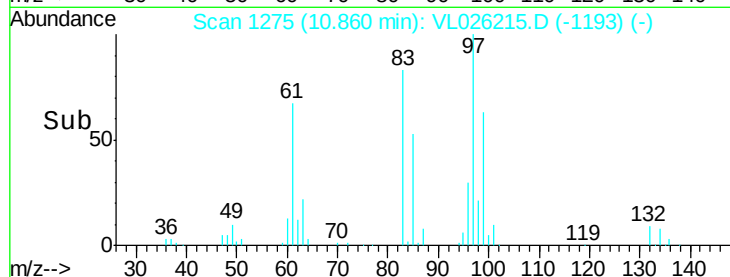
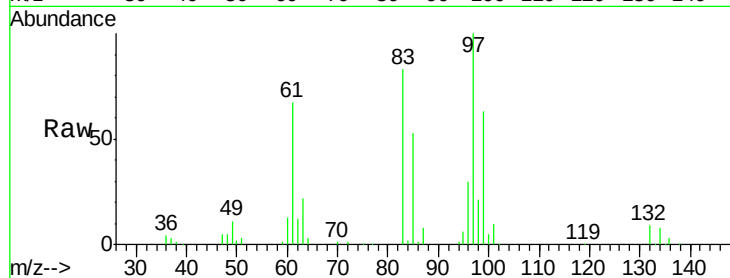
Ion	Ratio	Lower	Upper
97	100		
83	82.9	67.4	101.2
85	53.1	43.8	65.6
99	63.3	49.8	74.6

97 100

83 82.9 67.4 101.2

85 53.1 43.8 65.6

99 63.3 49.8 74.6



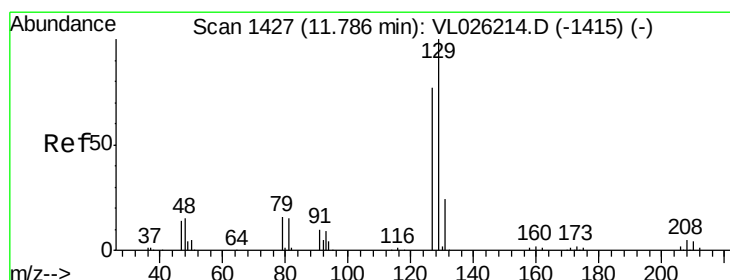
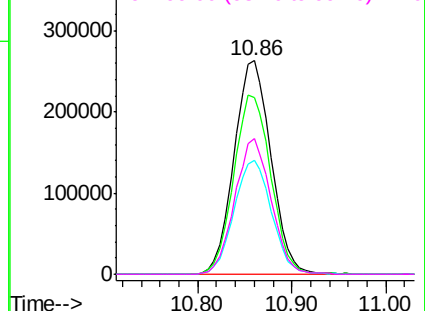
Abundance

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: 9.90 ppbv

RT: 11.78 min Scan# 1426

Delta R.T. -0.01 min

Lab File: VL026215.D

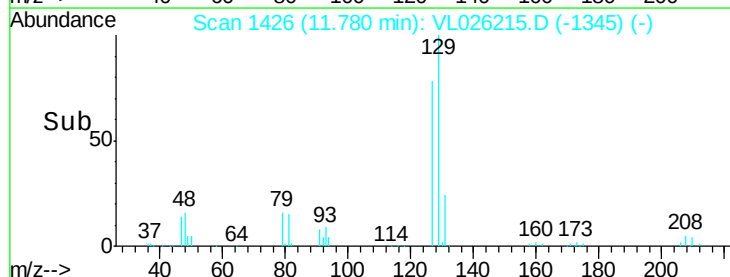
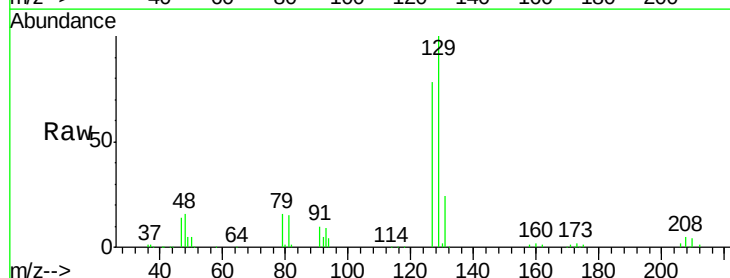
Acq: 20 Oct 2015 19:49

Tgt Ion: 129 Resp: 1204321

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.5

129 100

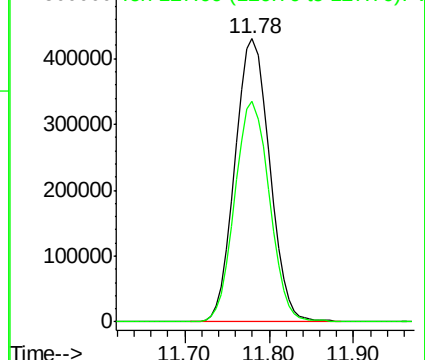
127 78.4 39.1 117.5

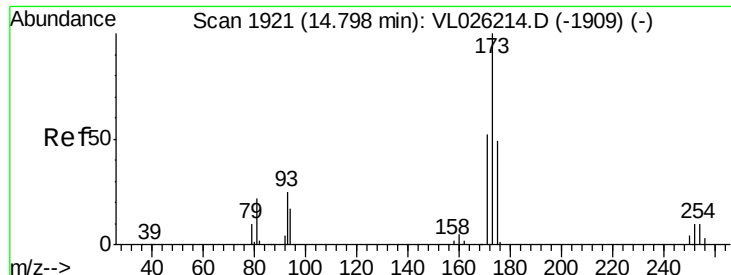


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.99 ppbv

RT: 14.79 min Scan# 1920

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

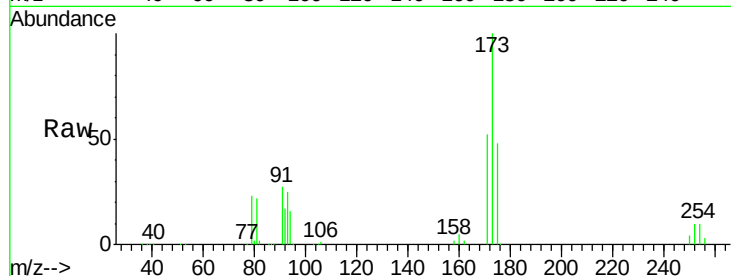
Tot Ion:173 Resp: 1026368

Ion Ratio Lower Upper

173 100

175 49.0 38.7 58.1

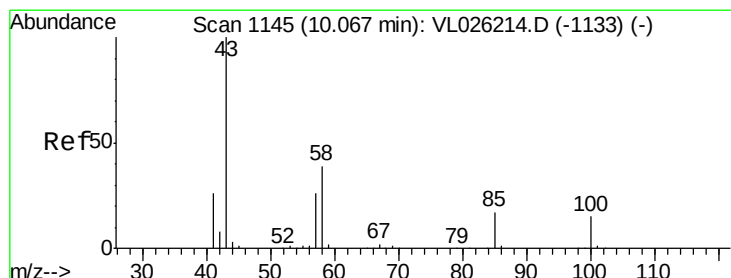
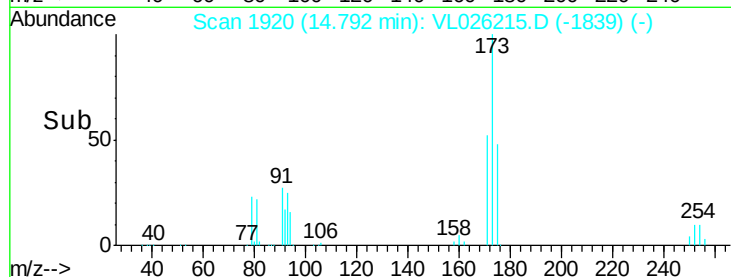
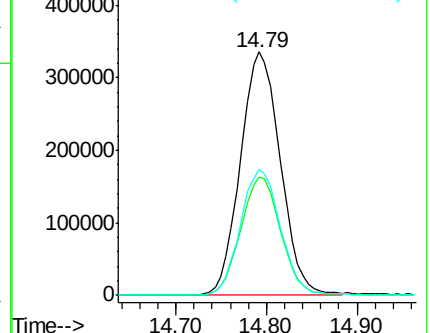
171 52.2 41.6 62.4



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: 9.86 ppbv

RT: 10.07 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL026215.D

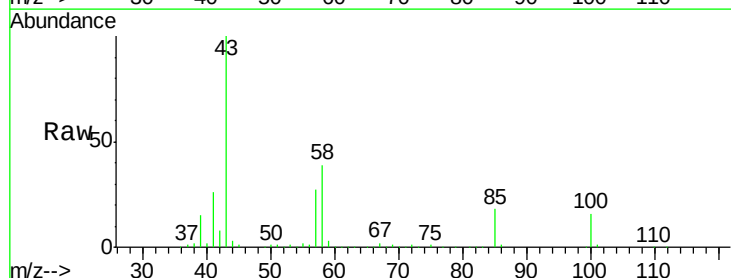
Acq: 20 Oct 2015 19:49

Tgt Ion: 43 Resp: 1248078

Ion Ratio Lower Upper

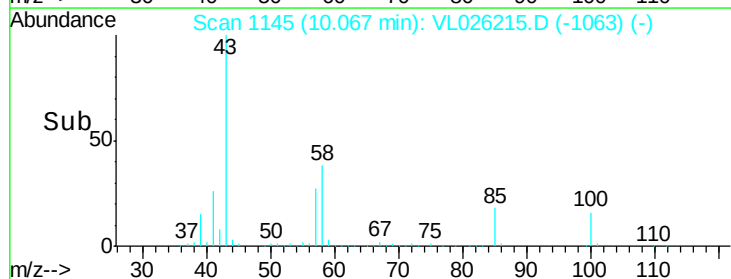
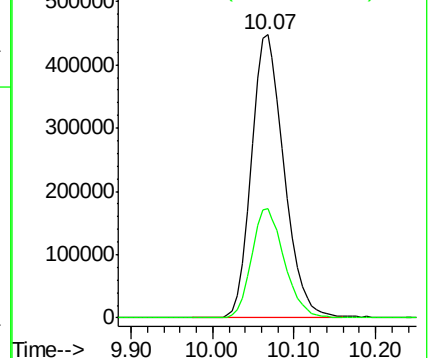
43 100

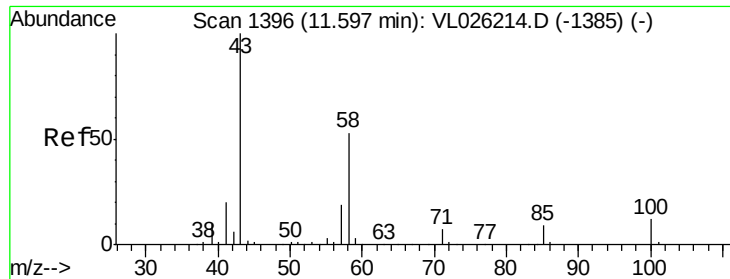
58 38.8 31.1 46.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.20 ppbv

RT: 11.59 min Scan# 1395

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

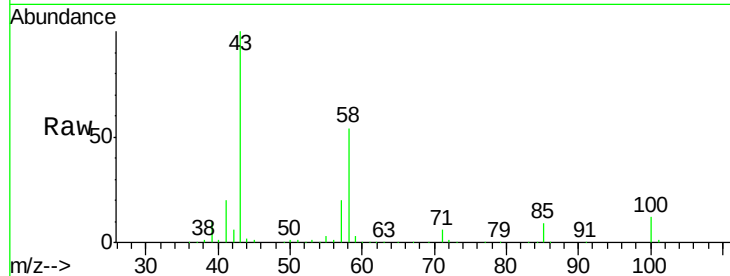
Tot Ion: 43 Resp: 1205614

Ion Ratio Lower Upper

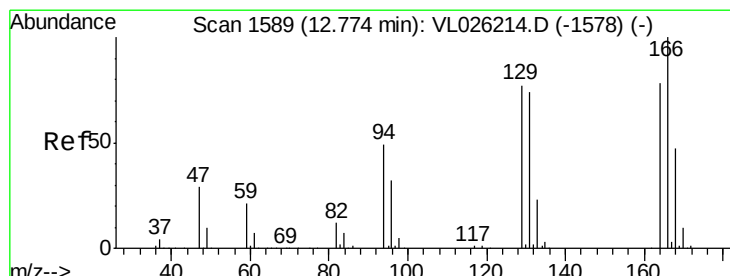
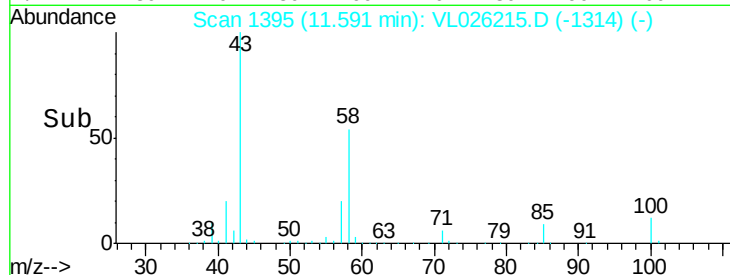
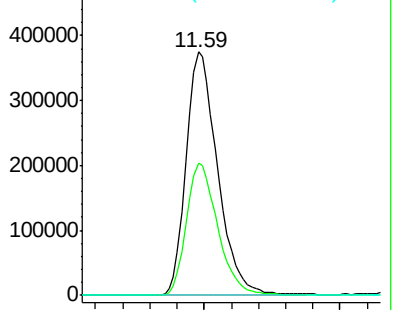
43 100

58 54.1 43.2 64.8

98 0.0 0.0 0.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 7.78 ppbv

RT: 12.77 min Scan# 1588

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Tgt Ion: 164 Resp: 753814

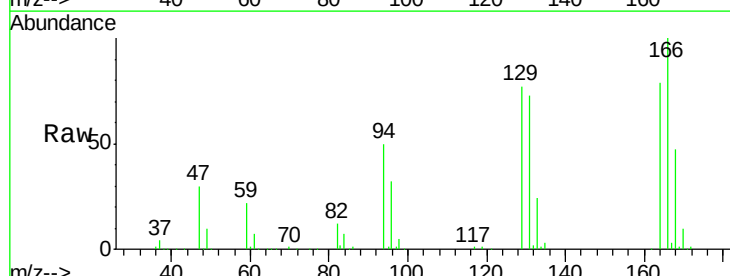
Ion Ratio Lower Upper

164 100

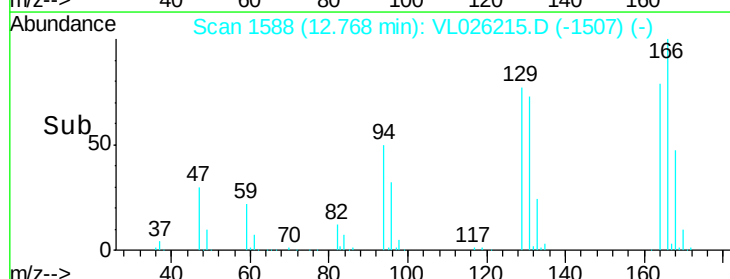
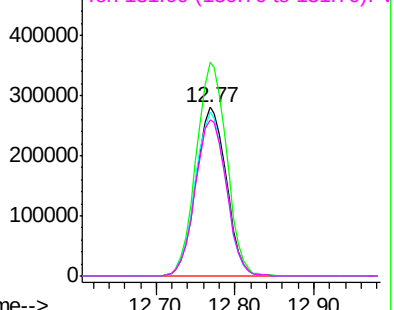
166 126.8 102.3 153.5

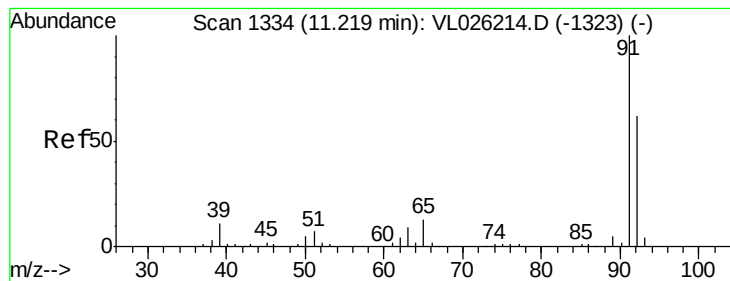
129 97.2 78.2 117.4

131 93.1 75.7 113.5



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.43 ppbv

RT: 11.21 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

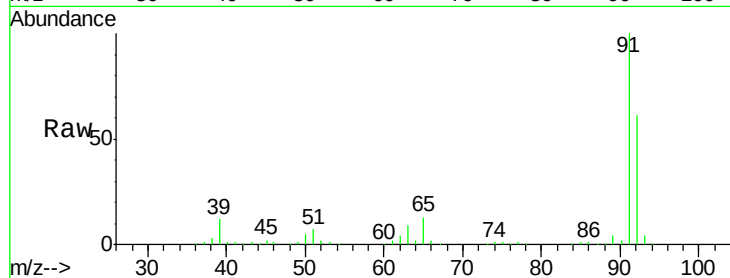
ICVVL102015

Tot Ion: 91 Resp: 2167413

Ion Ratio Lower Upper

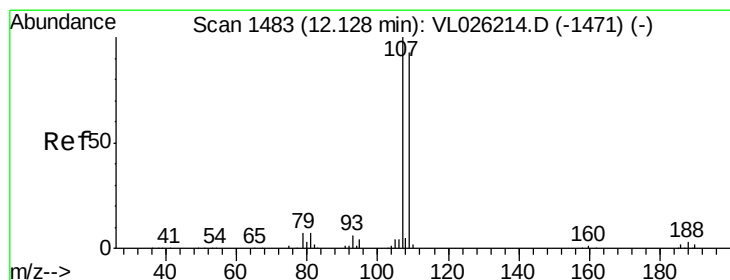
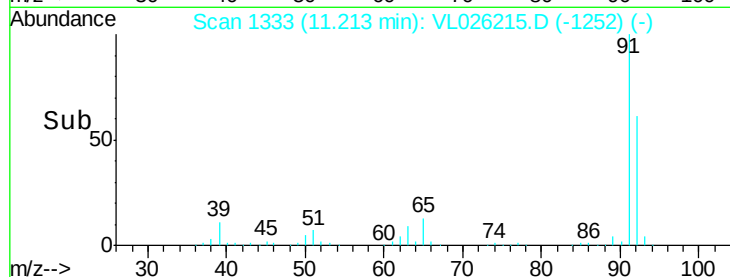
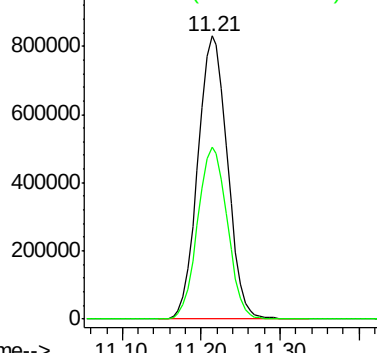
91 100

92 61.1 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.65 ppbv

RT: 12.12 min Scan# 1482

Delta R.T. -0.01 min

Lab File: VL026215.D

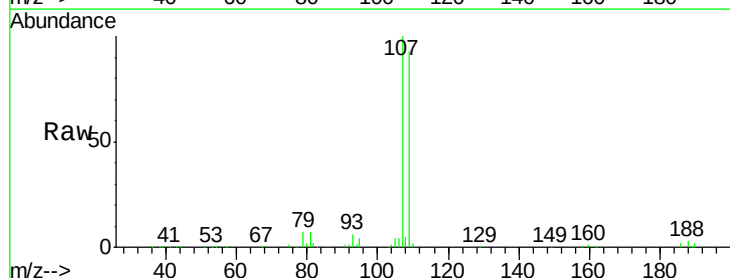
Acq: 20 Oct 2015 19:49

Tgt Ion:107 Resp: 1115417

Ion Ratio Lower Upper

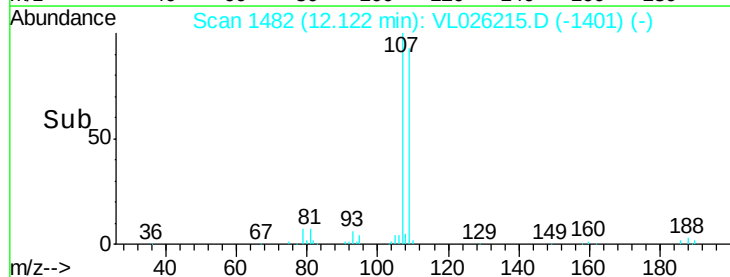
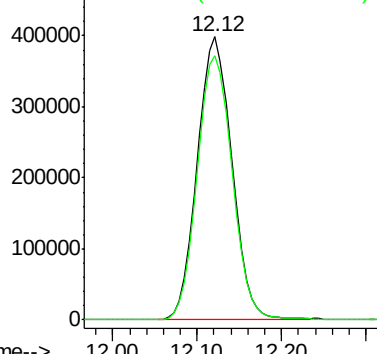
107 100

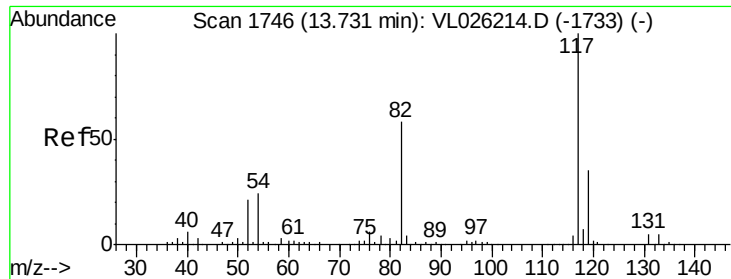
109 93.1 74.7 112.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

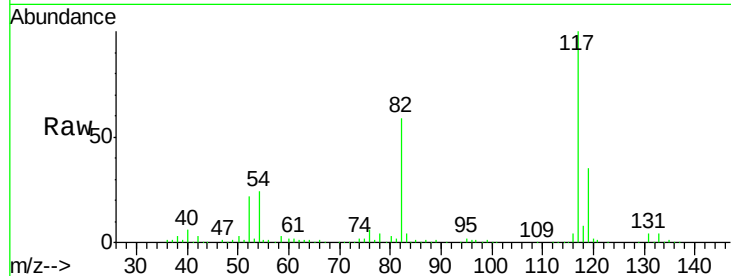




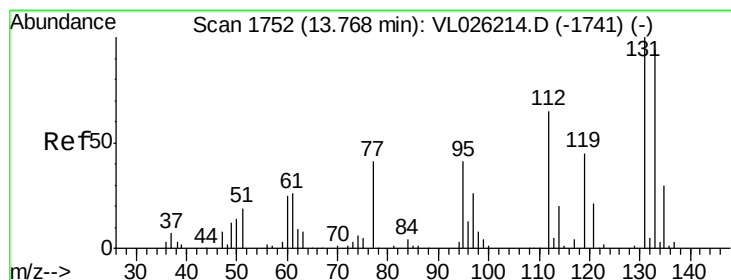
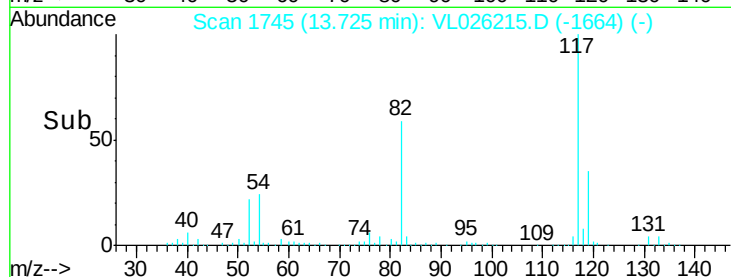
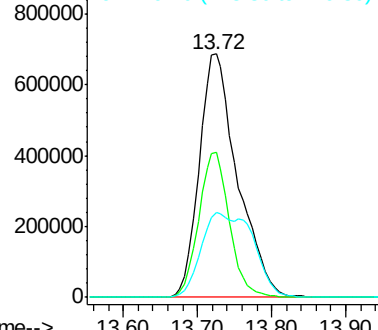
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.72 min Scan# 1745
Delta R.T. -0.01 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Instrument :
MSVOA_L
ClientSampleId :
ICVVL102015

Tot Ion:117 Resp: 2474454
Ion Ratio Lower Upper
117 100
82 48.1 45.8 68.8
119 47.6 45.0 67.4

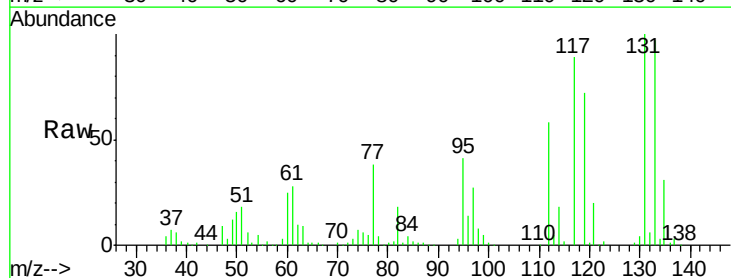


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

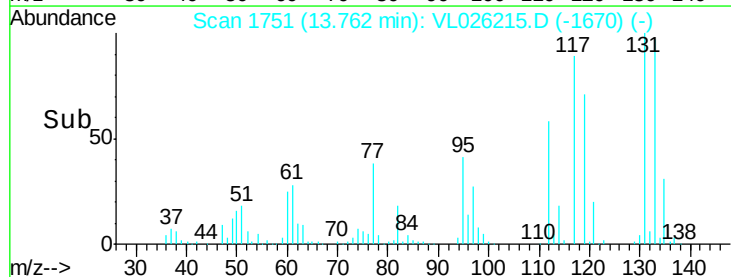
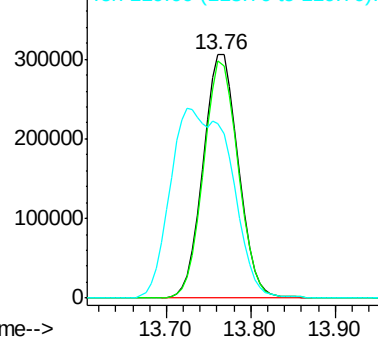


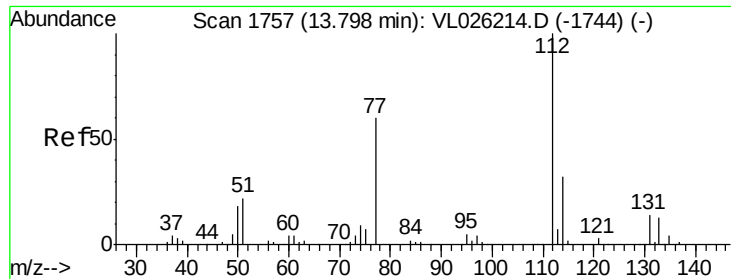
#56
1,1,1,2-Tetrachloroethane
Concen: 7.31 ppbv
RT: 13.76 min Scan# 1751
Delta R.T. -0.01 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Tgt Ion:131 Resp: 867071
Ion Ratio Lower Upper
131 100
133 96.1 75.9 113.9
119 135.7 108.0 162.0



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

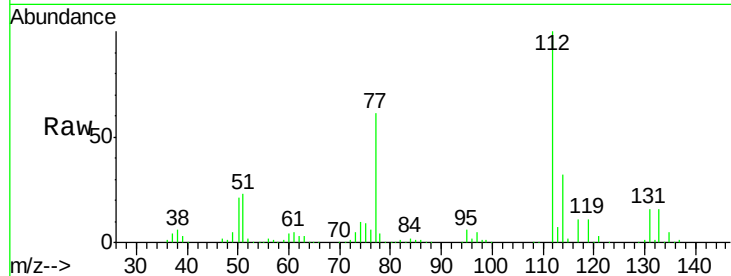




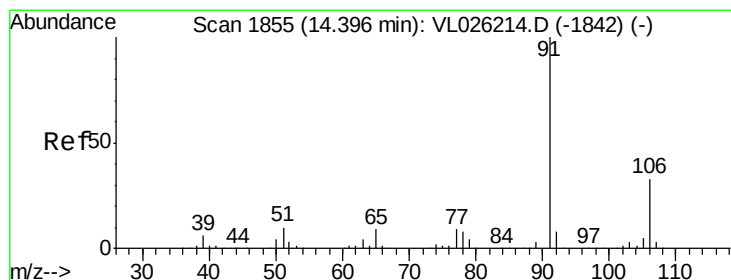
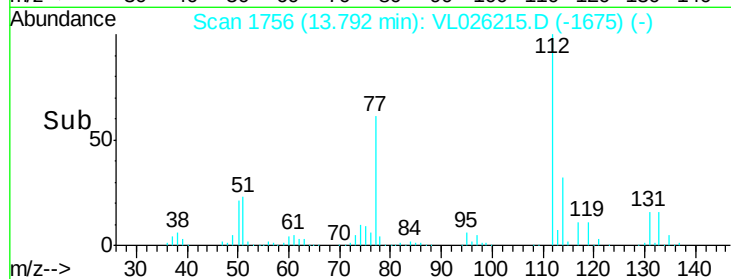
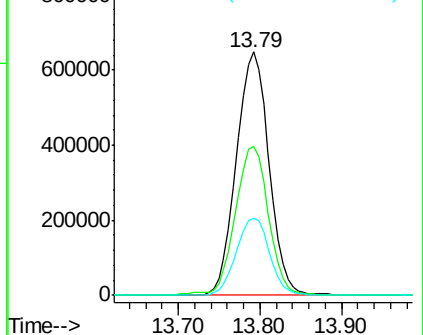
#57
Chlorobenzene
Concen: 7.63 ppbv
RT: 13.79 min Scan# 1756
Delta R.T. -0.01 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Instrument :
MSVOA_L
ClientSampleId :
ICVVL102015

Tot Ion:112 Resp: 1807137
Ion Ratio Lower Upper
112 100
77 61.1 48.4 72.6
114 31.9 29.0 35.4

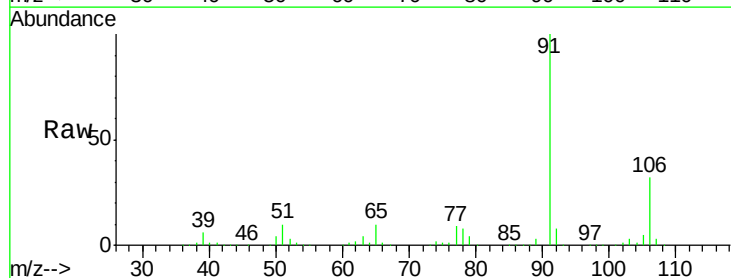


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

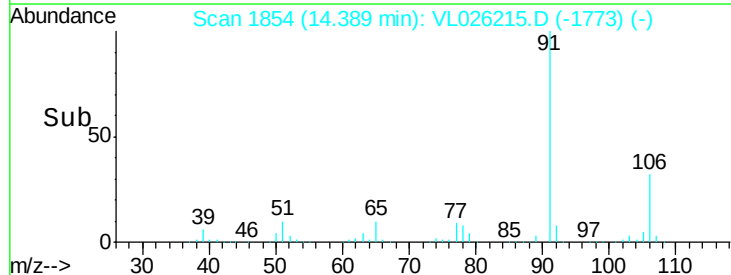
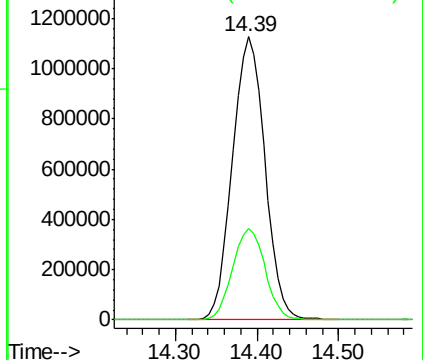


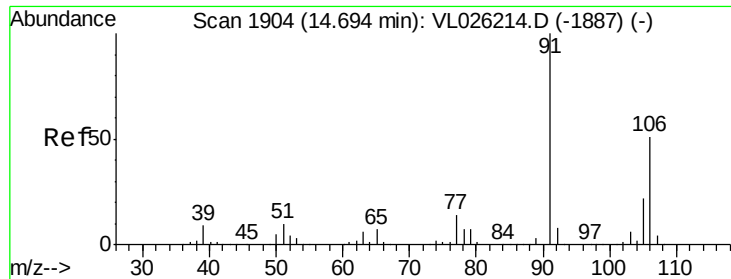
#58
Ethyl Benzene
Concen: 7.77 ppbv
RT: 14.39 min Scan# 1854
Delta R.T. -0.01 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Tgt Ion: 91 Resp: 3113827
Ion Ratio Lower Upper
91 100
106 32.2 26.1 39.1



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

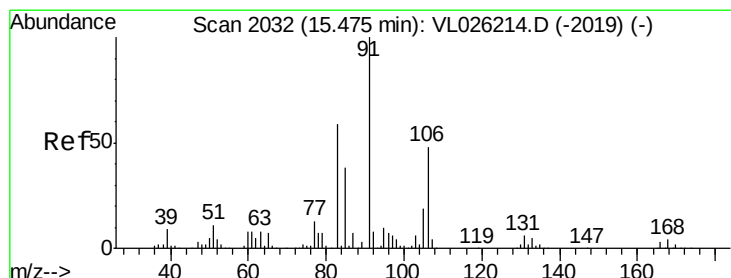
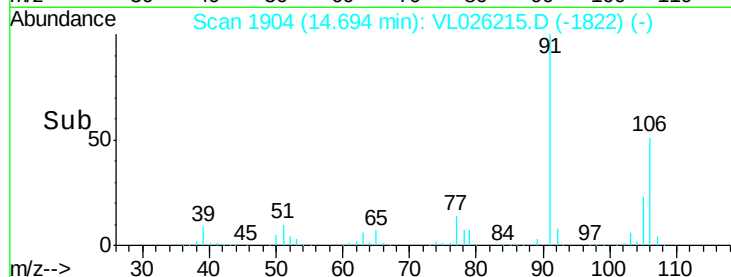
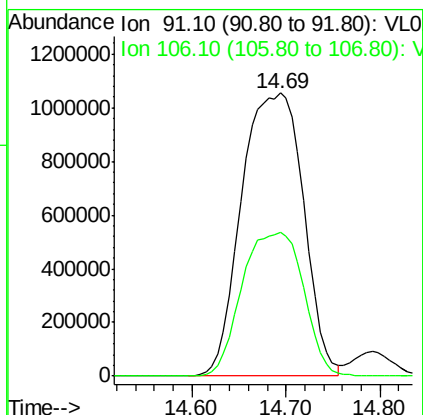
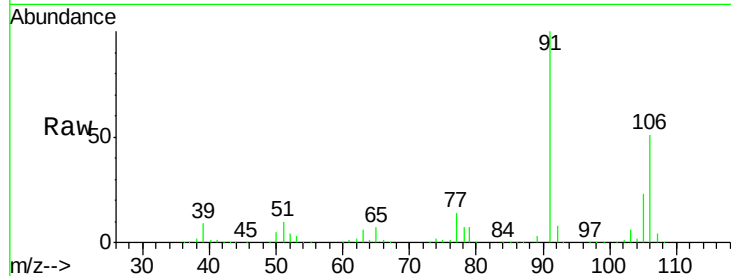




#59
m/p-Xylene
Concen: 15.34 ppbv
RT: 14.69 min Scan# 1904
Delta R.T. -0.00 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

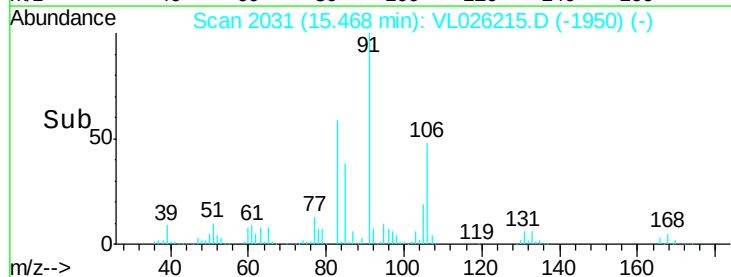
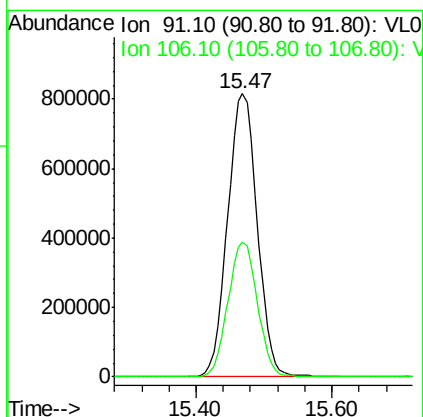
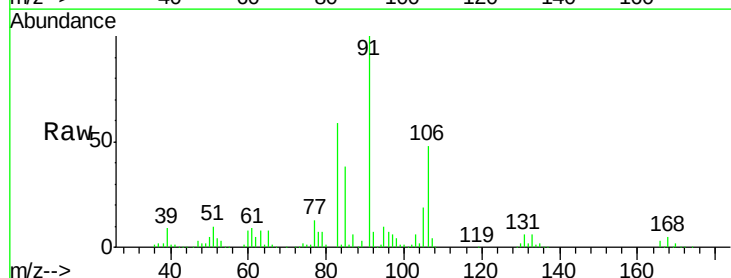
Instrument :
MSVOA_L
ClientSampleId :
ICVVL102015

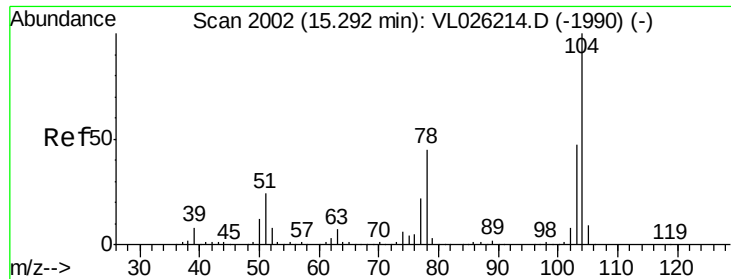
Tot Ion: 91 Resp: 4816091
Ion Ratio Lower Upper
91 100
106 51.0 40.6 61.0



#60
o-Xylene
Concen: 7.51 ppbv
RT: 15.47 min Scan# 2031
Delta R.T. -0.01 min
Lab File: VL026215.D
Acq: 20 Oct 2015 19:49

Tgt Ion: 91 Resp: 2465566
Ion Ratio Lower Upper
91 100
106 47.5 23.8 71.5





#61

Stvrene

Concen: 8.38 ppbv

RT: 15.29 min Scan# 2001

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

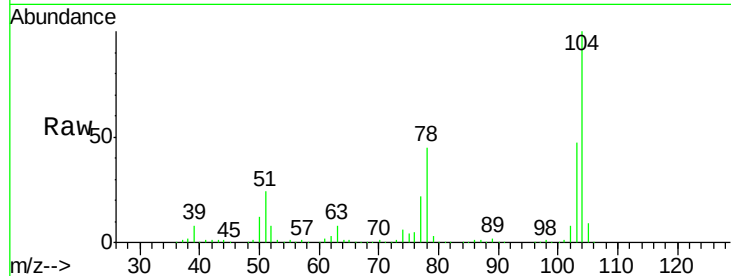
Tot Ion:104 Resp: 1244696

Ion Ratio Lower Upper

104 100

78 44.8 35.3 52.9

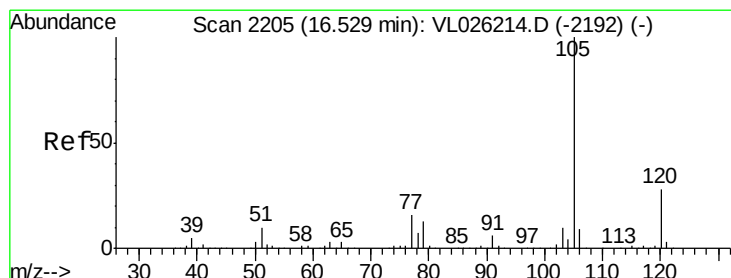
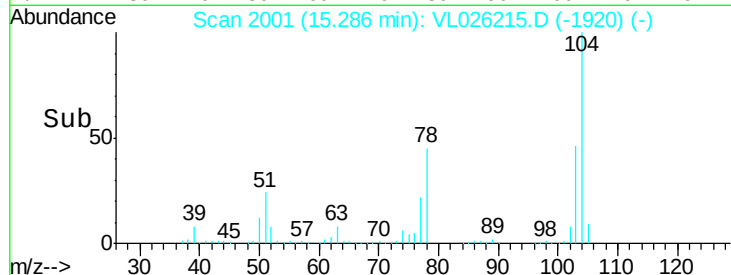
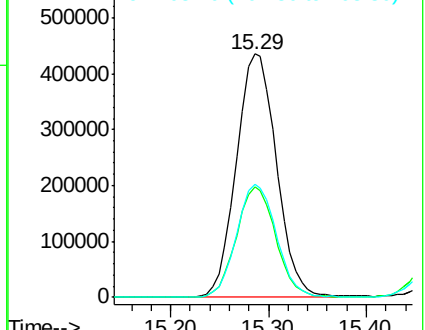
103 46.2 37.0 55.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.68 ppbv

RT: 16.52 min Scan# 2203

Delta R.T. -0.01 min

Lab File: VL026215.D

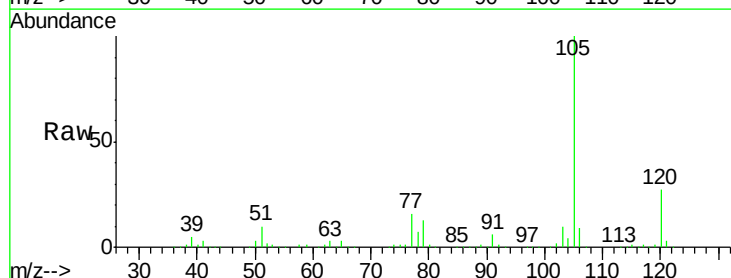
Acq: 20 Oct 2015 19:49

Tgt Ion:105 Resp: 3504612

Ion Ratio Lower Upper

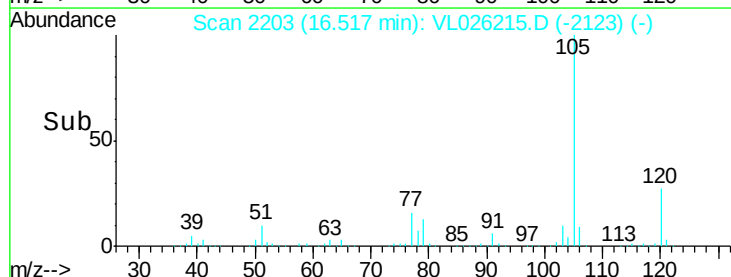
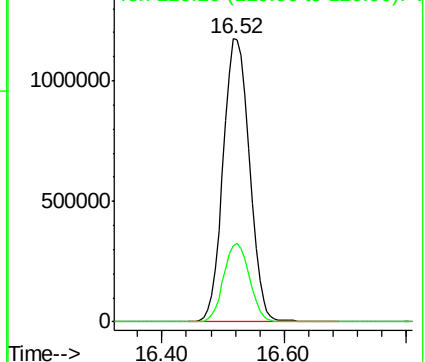
105 100

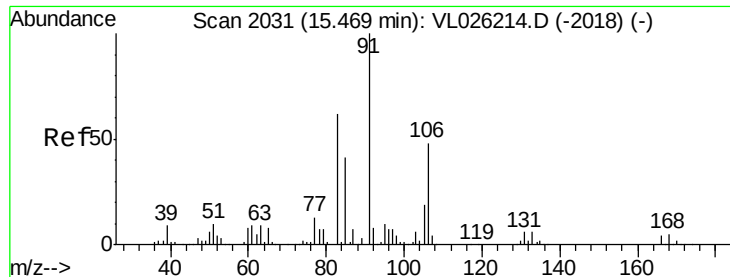
120 27.1 21.8 32.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

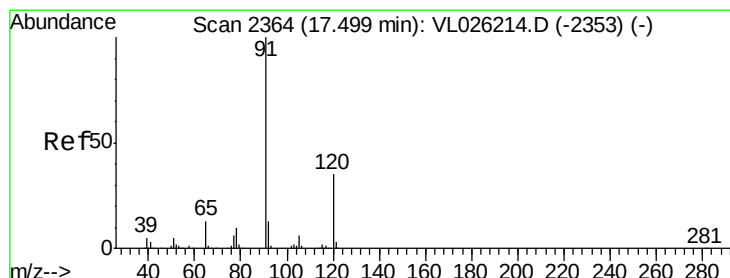
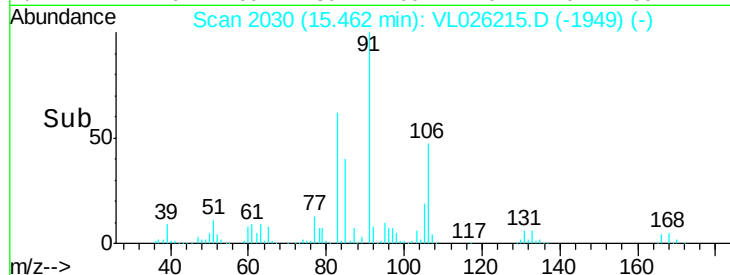
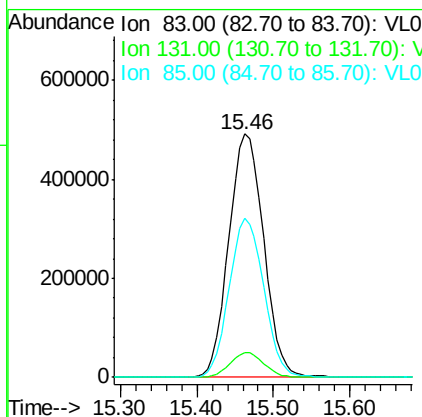
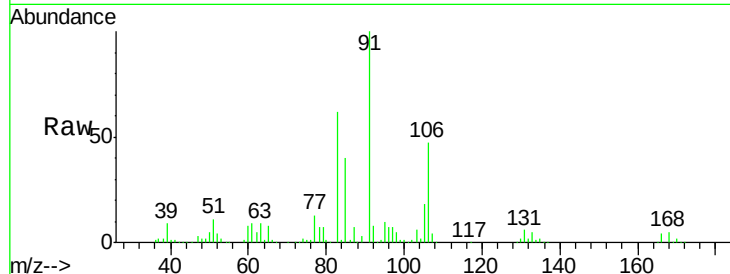




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.19 ppbv
 RT: 15.46 min Scan# 2030
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

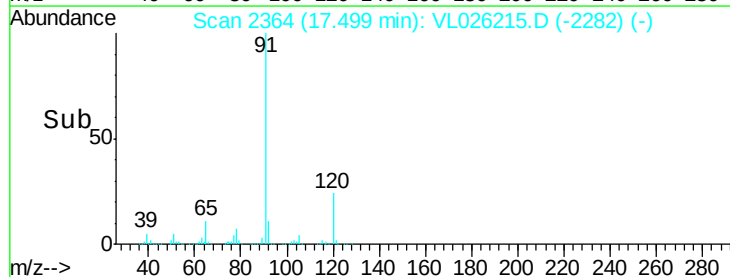
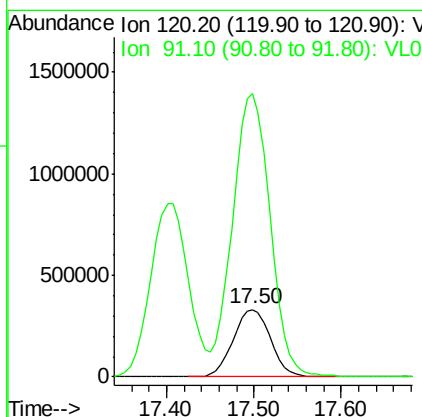
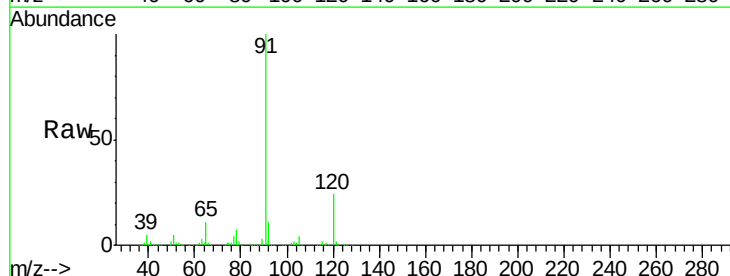
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102015

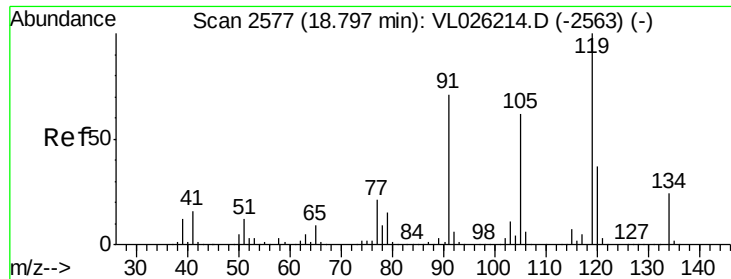
Tot Ion: 83 Resp: 1560356
 Ion Ratio Lower Upper
 83 100
 131 9.8 5.0 14.9
 85 65.0 32.3 96.9



#64
 n-propylbenzene
 Concen: 7.84 ppbv
 RT: 17.50 min Scan# 2364
 Delta R.T. -0.00 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

Tgt Ion:120 Resp: 984229
 Ion Ratio Lower Upper
 120 100
 91 422.5 331.7 497.5

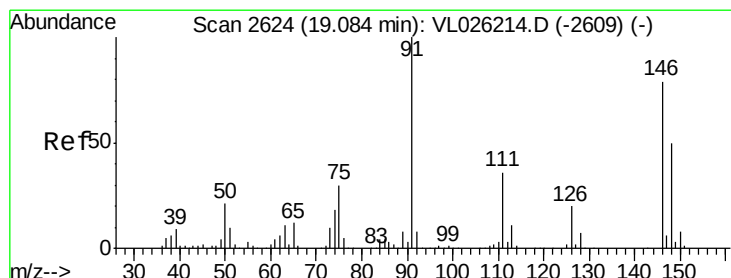
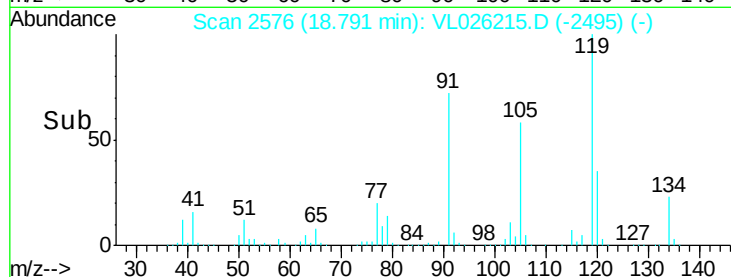
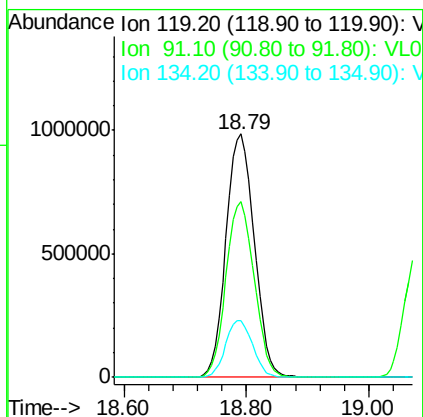
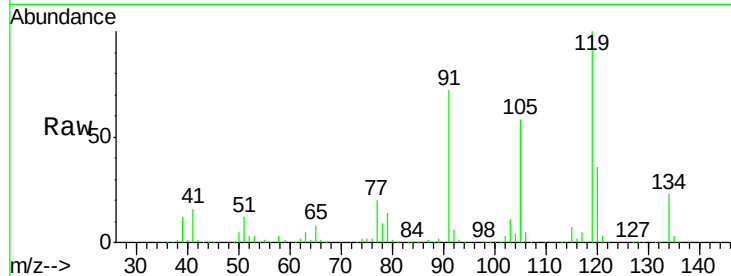




#65
 tert-Butylbenzene
 Concen: 7.59 ppbv
 RT: 18.79 min Scan# 2576
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

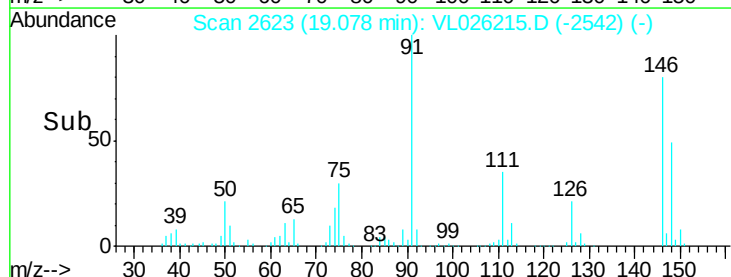
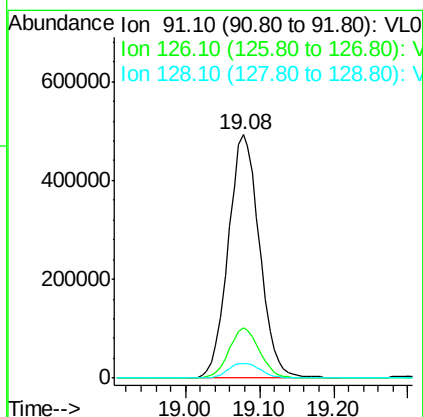
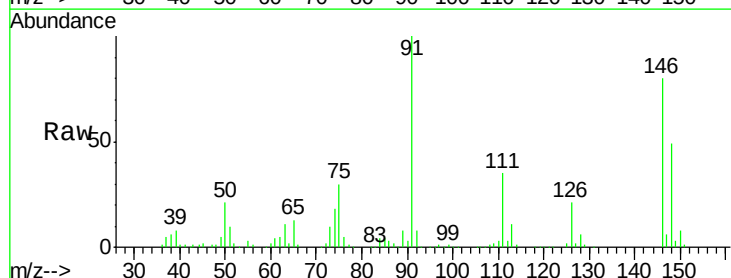
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102015

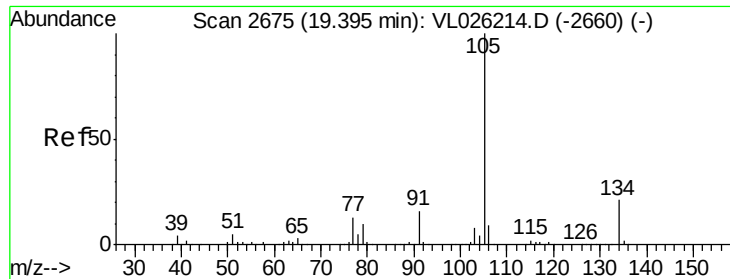
Tot Ion:119 Resp: 3163678
 Ion Ratio Lower Upper
 119 100
 91 71.9 57.5 86.3
 134 22.4 18.1 27.1



#66
 Benzyl Chloride
 Concen: 8.38 ppbv
 RT: 19.08 min Scan# 2623
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

Tgt Ion: 91 Resp: 1441625
 Ion Ratio Lower Upper
 91 100
 126 20.3 16.2 24.2
 128 6.4 5.1 7.7





#67

sec-Butylbenzene

Concen: 7.80 ppbv

RT: 19.39 min Scan# 2674

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

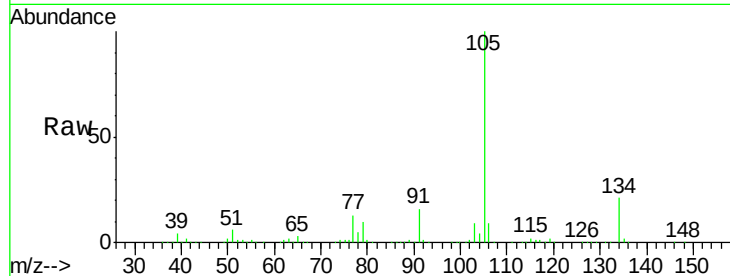
ICVVL102015

Tot Ion:105 Resp: 4533778

Ion Ratio Lower Upper

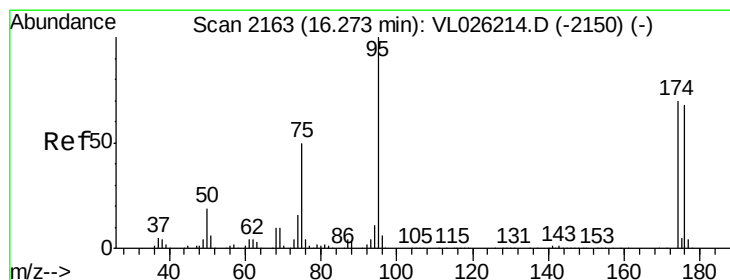
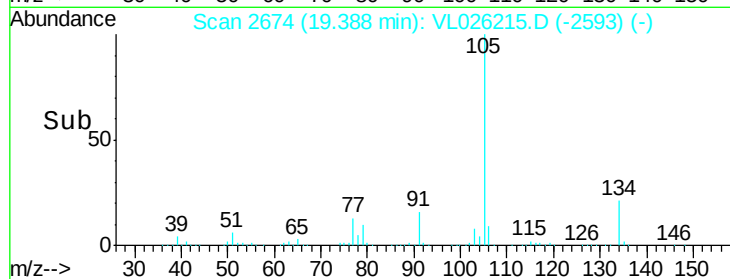
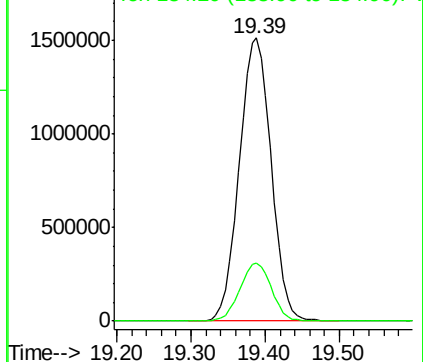
105 100

134 20.4 16.2 24.4



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: 8.37 ppbv

RT: 16.27 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

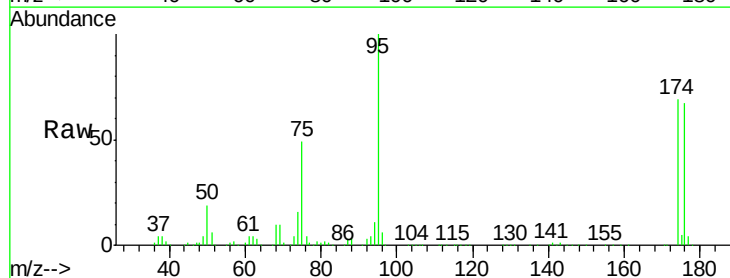
Tgt Ion: 95 Resp: 1596779

Ion Ratio Lower Upper

95 100

174 69.5 55.8 83.8

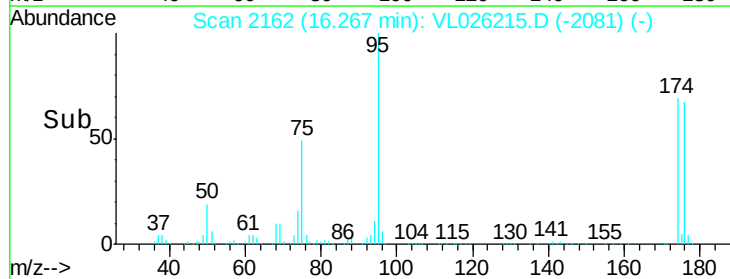
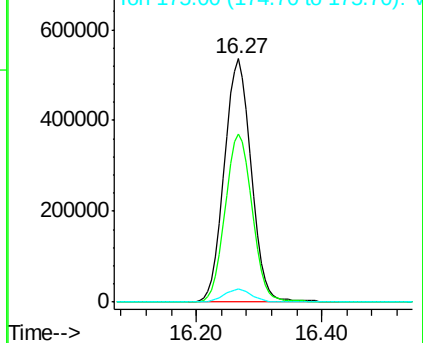
175 5.3 4.3 6.5

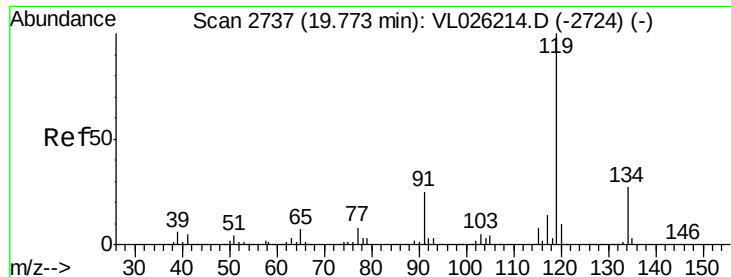


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 7.85 ppbv

RT: 19.77 min Scan# 2736

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

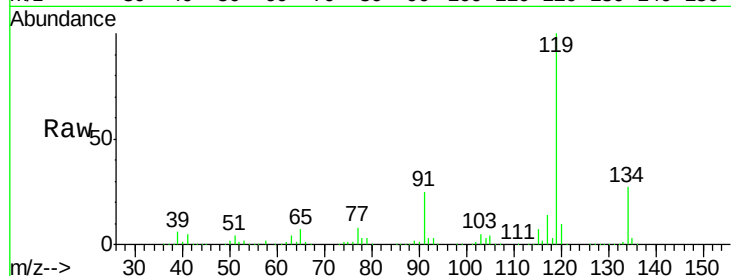
Tot Ion:119 Resp: 3815818

Ion Ratio Lower Upper

119 100

134 26.9 21.4 32.0

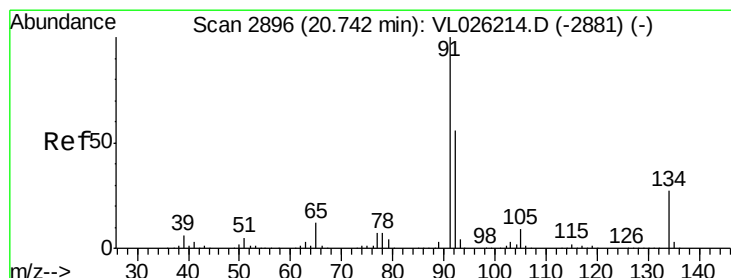
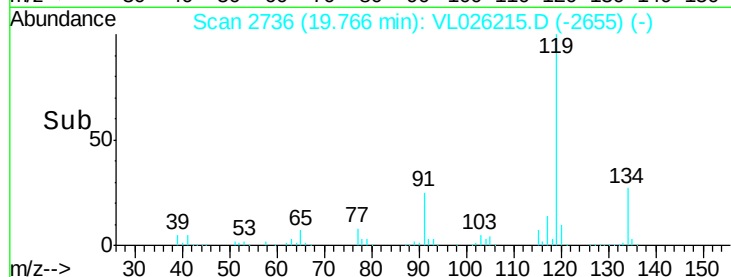
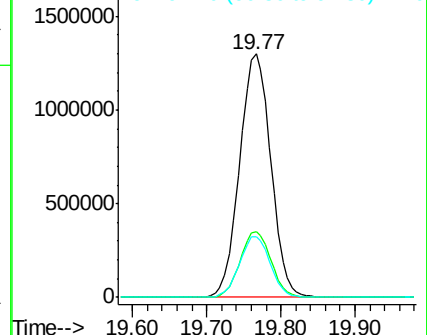
91 24.8 19.5 29.3



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 7.82 ppbv

RT: 20.74 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

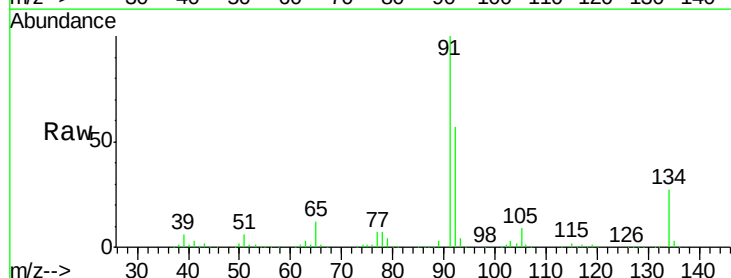
Tgt Ion: 91 Resp: 3472035

Ion Ratio Lower Upper

91 100

92 56.2 45.0 67.6

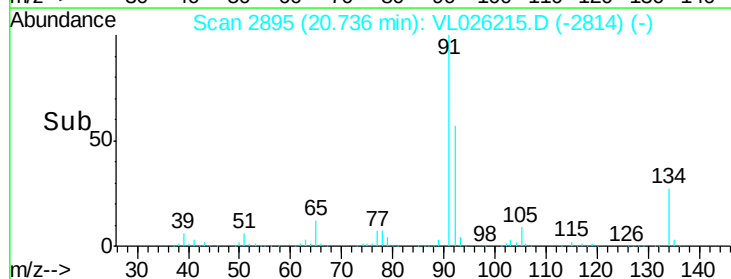
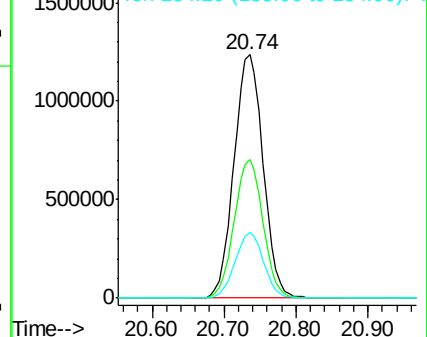
134 26.3 21.4 32.0

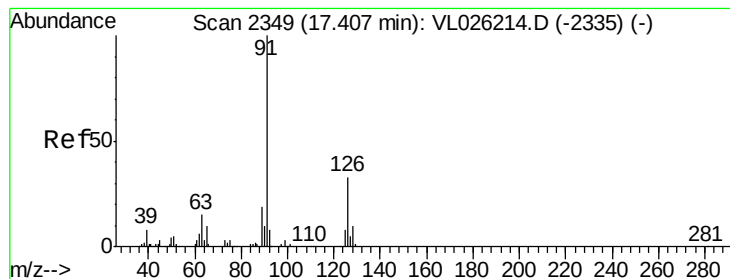


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 7.75 ppbv

RT: 17.40 min Scan# 2348

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

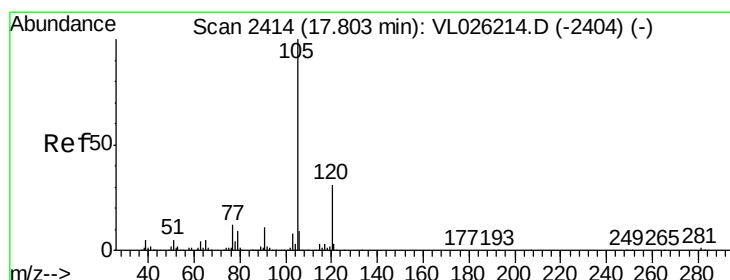
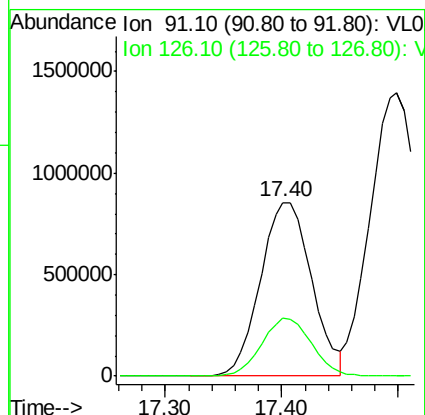
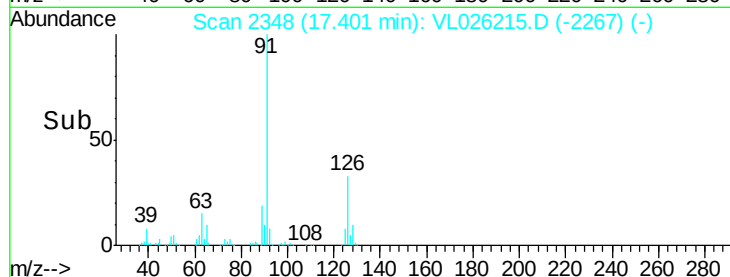
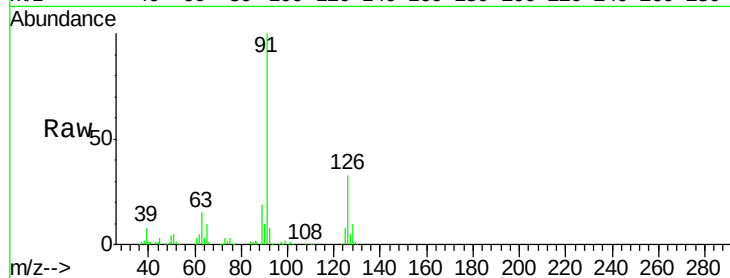
ICVVL102015

Tot Ion: 91 Resp: 2605442

Ion Ratio Lower Upper

91 100

126 32.8 12.9 51.7



#72

4-Ethyltoluene

Concen: 8.05 ppbv

RT: 17.80 min Scan# 2413

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Tgt Ion: 105 Resp: 3074404

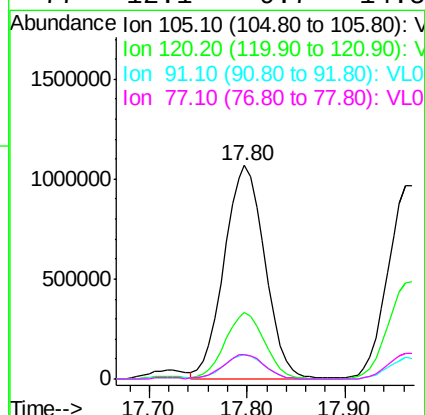
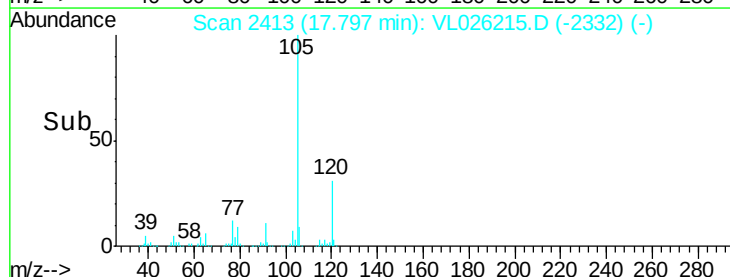
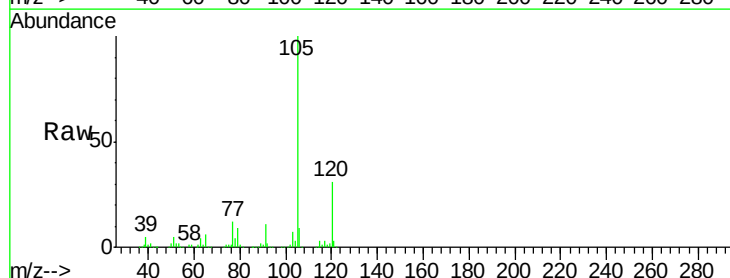
Ion Ratio Lower Upper

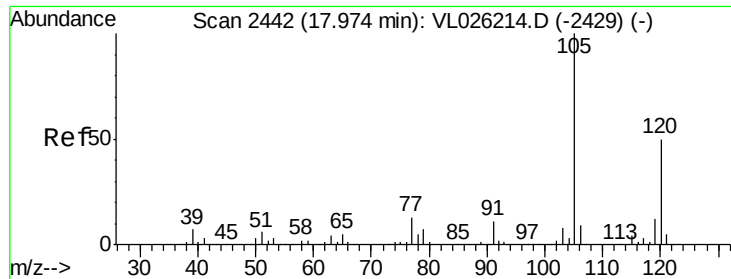
105 100

120 31.8 25.2 37.8

91 11.6 9.0 13.6

77 12.1 9.7 14.5





#73

1,3,5-Trimethylbenzene

Concen: 8.00 ppbv

RT: 17.97 min Scan# 2441

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

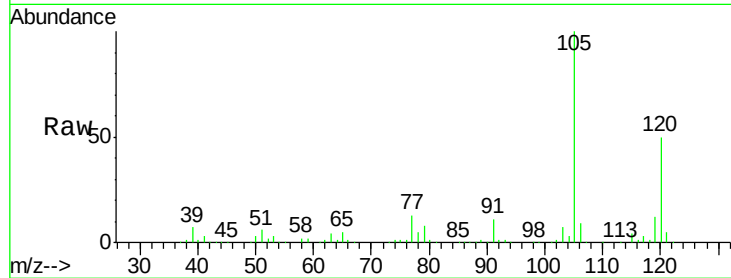
ICVVL102015

Tot Ion:105 Resp: 2847165

Ion Ratio Lower Upper

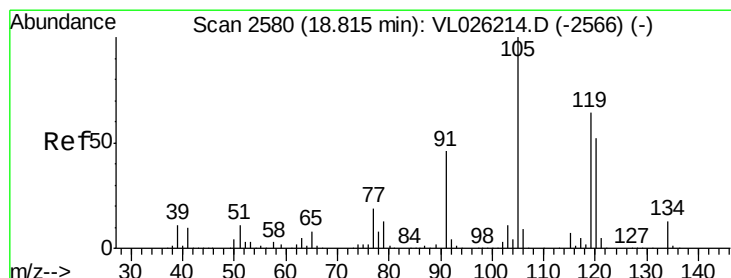
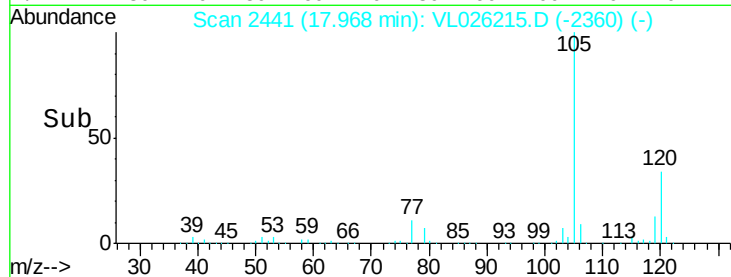
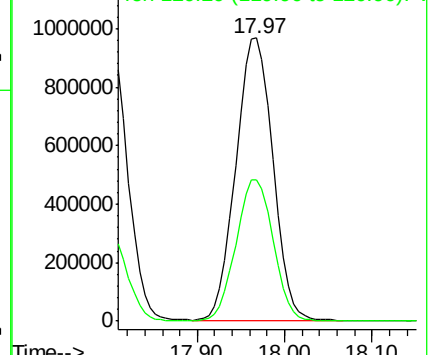
105 100

120 50.0 39.8 59.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.57 ppbv

RT: 18.81 min Scan# 2579

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Tgt Ion:105 Resp: 2794764

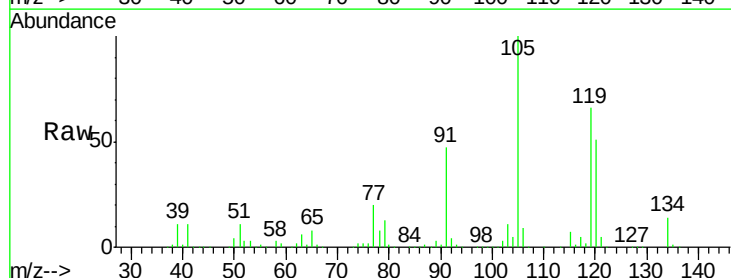
Ion Ratio Lower Upper

105 100

120 51.0 41.2 61.8

91 47.1 37.2 55.8

77 19.6 15.6 23.4

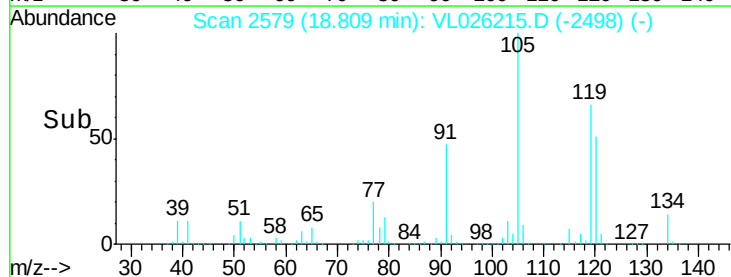
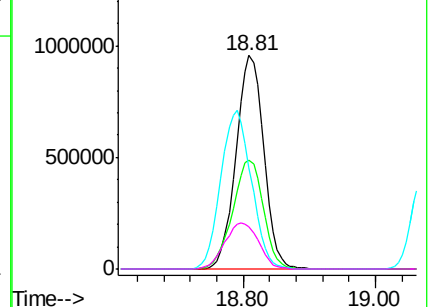


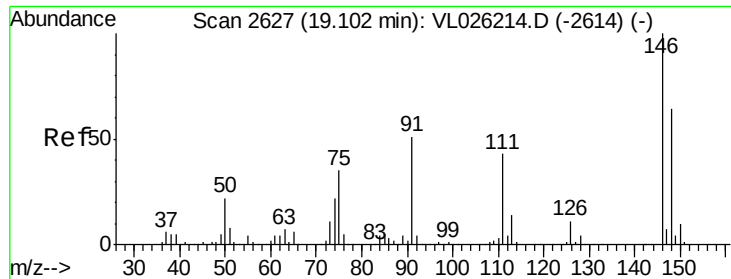
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 7.79 ppbv

RT: 19.10 min Scan# 2626

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

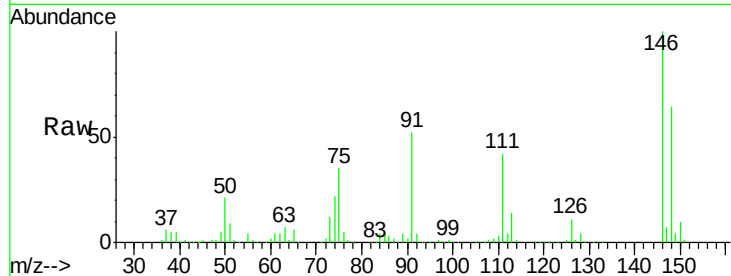
Tot Ion:146 Resp: 1879712

Ion Ratio Lower Upper

146 100

111 42.8 21.6 64.8

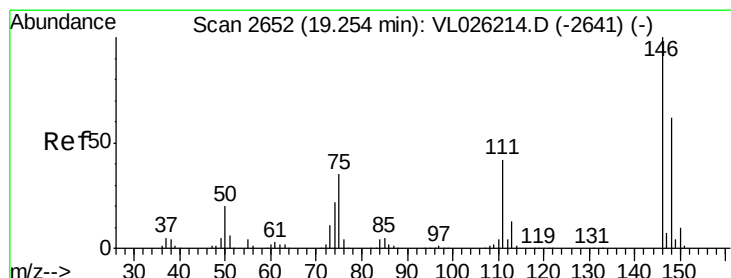
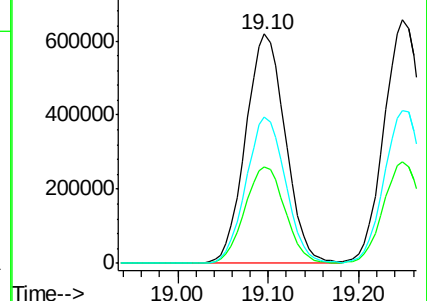
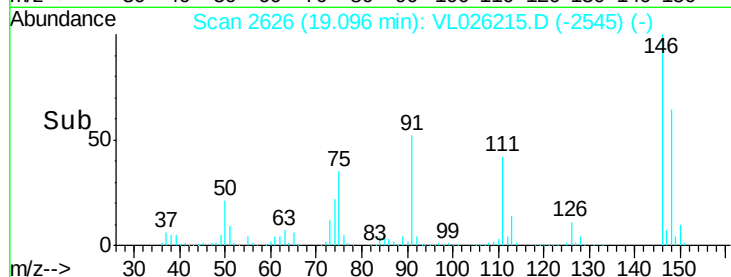
148 63.5 31.8 95.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 7.88 ppbv

RT: 19.25 min Scan# 2651

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

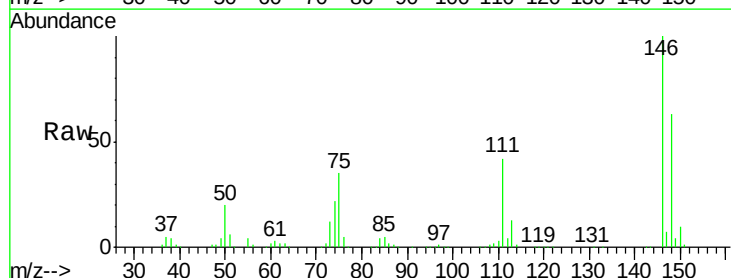
Tgt Ion:146 Resp: 1983780

Ion Ratio Lower Upper

146 100

111 42.0 20.8 62.2

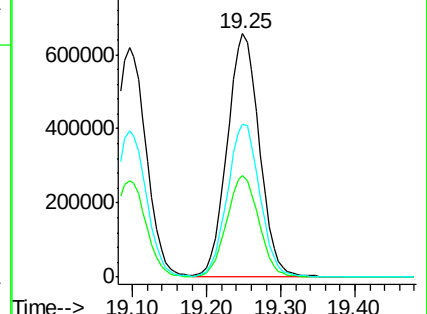
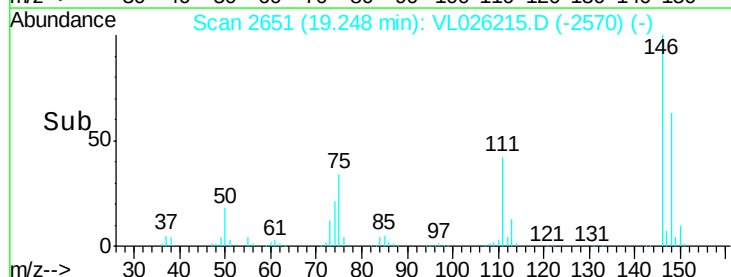
148 63.5 31.9 95.9

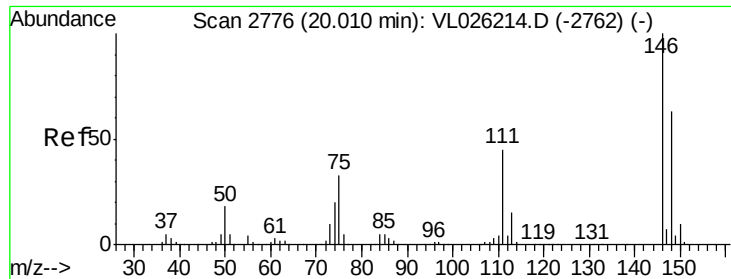


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

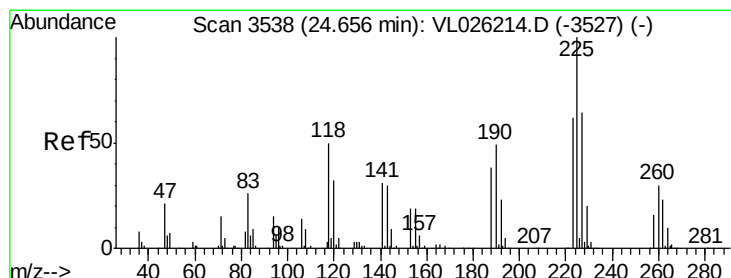
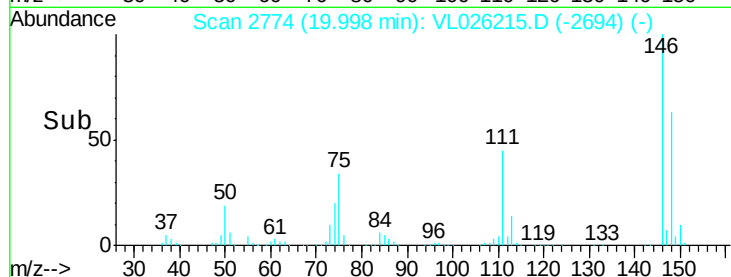
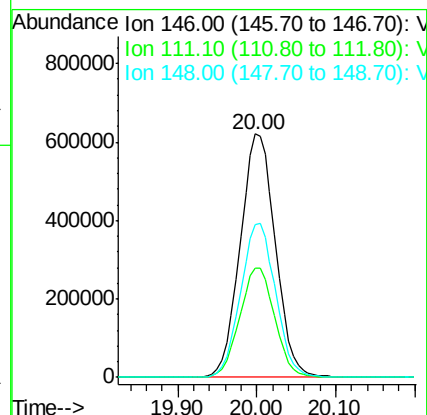
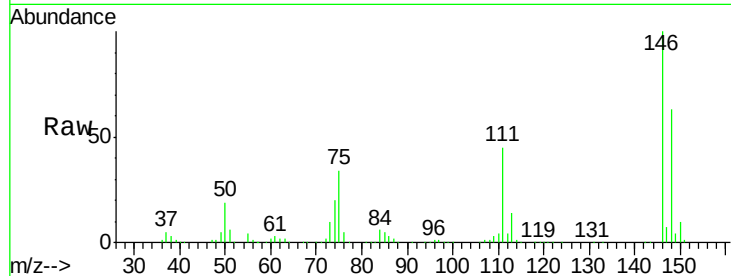




#77
 1,2-Dichlorobenzene
 Concen: 7.88 ppbv
 RT: 20.00 min Scan# 2774
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

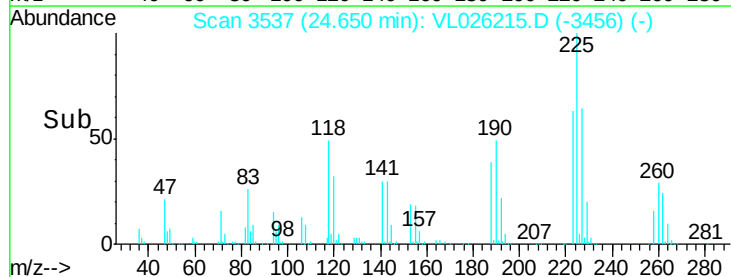
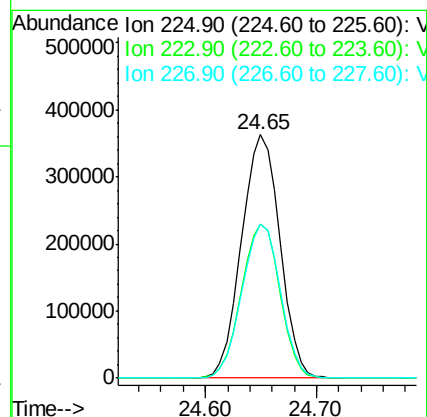
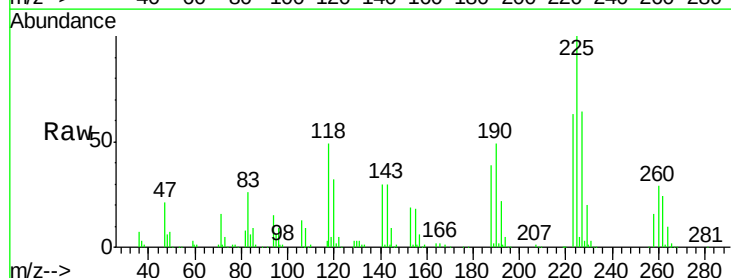
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102015

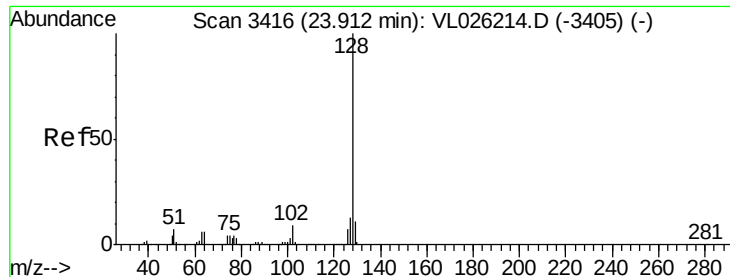
Tot Ion:146 Resp: 1915708
 Ion Ratio Lower Upper
 146 100
 111 45.0 22.6 67.7
 148 63.4 31.6 95.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.98 ppbv
 RT: 24.65 min Scan# 3537
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

Tgt Ion:225 Resp: 870708
 Ion Ratio Lower Upper
 225 100
 223 63.4 50.2 75.2
 227 63.4 50.8 76.2





#79

Naphthalene

Concen: 8.11 ppbv

RT: 23.91 min Scan# 3415

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

Instrument :

MSVOA_L

ClientSampleId :

ICVVL102015

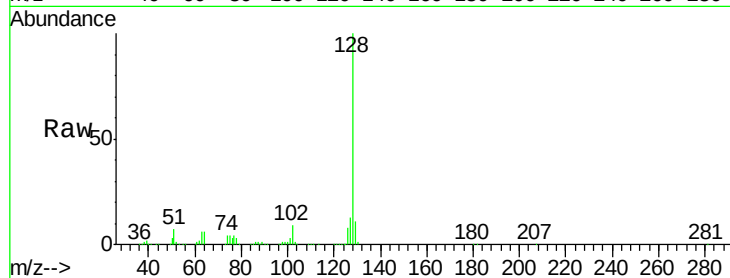
Tot Ion:128 Resp: 2638095

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

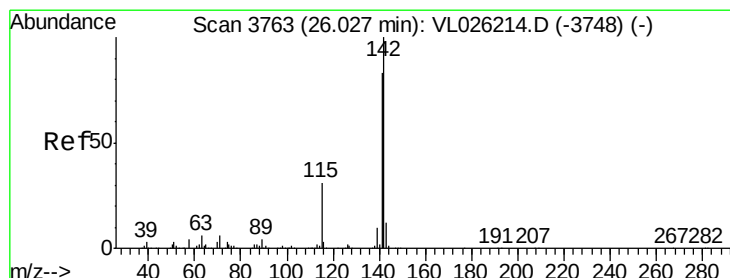
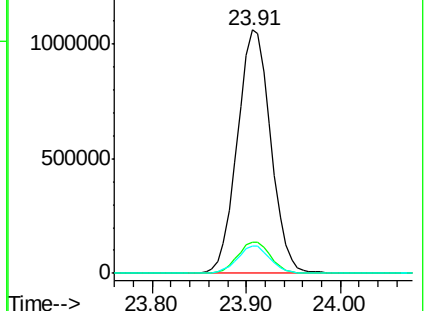
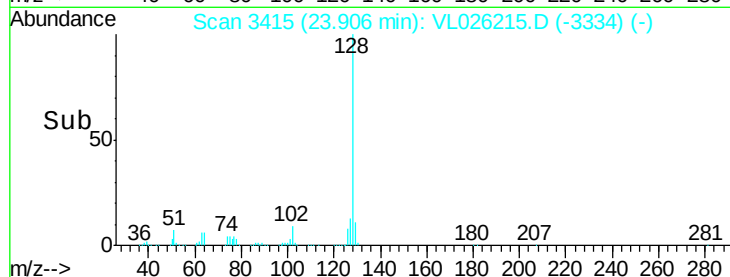
129 11.0 8.8 13.2



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.16 ppbv

RT: 26.02 min Scan# 3761

Delta R.T. -0.01 min

Lab File: VL026215.D

Acq: 20 Oct 2015 19:49

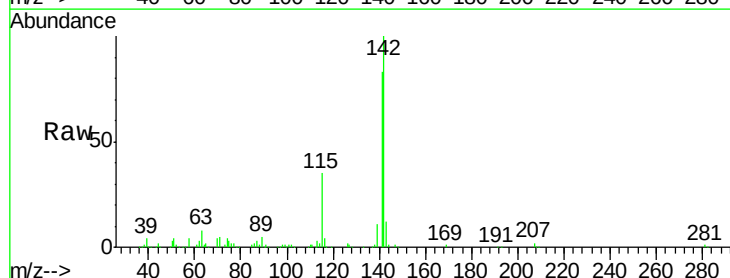
Tgt Ion:142 Resp: 476474

Ion Ratio Lower Upper

142 100

141 83.0 66.5 99.7

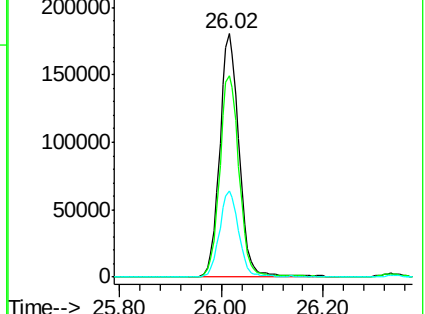
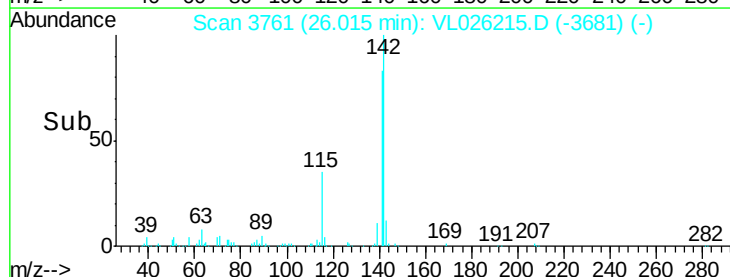
115 35.8 24.2 36.4

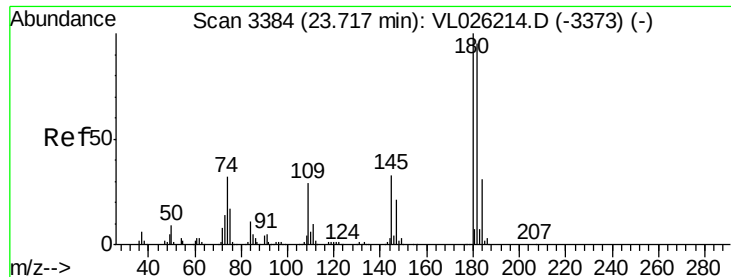


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

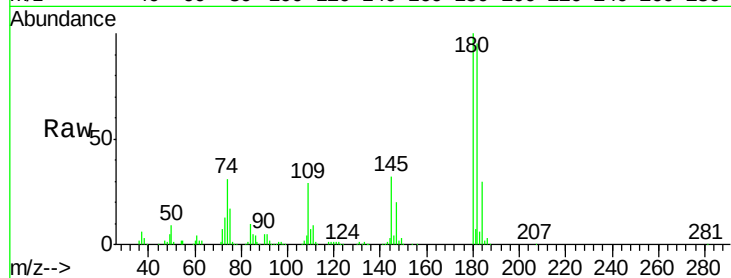




#81
 1,2,4-Trichlorobenzene
 Concen: 7.65 ppbv
 RT: 23.71 min Scan# 3383
 Delta R.T. -0.01 min
 Lab File: VL026215.D
 Acq: 20 Oct 2015 19:49

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL102015

Tot Ion:180 Resp: 1197709
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.7 115.1
 184 30.2 24.2 36.2



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

