

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026829.D
 Acq On : 9 Feb 2016 20:48
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Feb 10 02:10:45 2016

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 02:03:34 2016

QLast Update : Wed Feb 10 02:03:34 2016

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.70	49	1708507	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	4721391	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.80	117	6818667	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.35	95	3308871	5.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	57.20%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.67	85	4292670	7.91	ppbv	98
3) Chlorodifluoromethane	3.59	51	2555789	7.79	ppbv	99
4) Chloromethane	3.78	50	1494480	14.73	ppbv	100
5) Vinyl Chloride	3.92	62	1693118	14.08	ppbv	99
6) Bromomethane	4.17	94	1486577	14.35	ppbv	98
7) Chloroethane	4.27	64	771526	13.94	ppbv	99
8) Dichlorotetrafluoroethane	3.83	85	4578510	11.54	ppbv	95
9) Propene	3.62	41	1076903	16.03	ppbv	98
10) Heptane	9.40	43	3943101	15.32	ppbv	97
11) Trichlorofluoromethane	4.73	101	6076178	9.73	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	5.34	101	4515911	12.31	ppbv	97
13) Ethanol	4.36	45	112721	7.30	ppbv	96
14) Bromoethene	4.48	108	1711726	14.44	ppbv	100
15) Acetone	4.63	43	2658640	6.62	ppbv	99
16) 1,3-Butadiene	4.00	39	1279444	11.63	ppbv	98
17) tert-Butyl alcohol	5.15	59	2691153	12.48	ppbv	99
18) 1,1-Dichloroethene	5.12	96	1954765	13.88	ppbv	94
19) Isopropyl Alcohol	4.78	45	1158281	10.94	ppbv	99
20) Methylene Chloride	5.18	84	1717353	13.15	ppbv	96
21) Allyl Chloride	5.26	41	2076038	12.21	ppbv	98
22) trans-1,2-Dichloroethene	5.80	96	1868388	13.90	ppbv	97
23) Vinyl Acetate	6.02	43	4796247	11.23	ppbv	99
24) 1,1-Dichloroethane	5.95	63	3761299	12.54	ppbv	99
25) Ethyl Acetate	6.71	43	5609940	14.17	ppbv	99
26) Hexane	6.70	57	3081179	15.64	ppbv	97
27) Carbon Disulfide	5.42	76	5120822	13.05	ppbv	99
28) Methyl tert-Butyl Ether	5.99	73	4905662	11.18	ppbv	100
29) Chloroform	6.79	83	4687332	10.64	ppbv	97
30) Cyclohexane	8.32	84	2755677	13.58	ppbv	95
31) cis-1,2-Dichloroethene	6.56	61	2721325	12.72	ppbv	97
32) 1,1,1-Trichloroethane	7.64	97	4837041	9.63	ppbv	99
34) 2-Butanone	6.24	43	3397802	15.47	ppbv	98
35) Carbon Tetrachloride	8.21	117	5358484	11.43	ppbv	99
36) Benzene	8.07	78	5930022	14.98	ppbv	99
37) 1,2-Dichloroethane	7.42	62	3491596	10.26	ppbv	99
38) Trichloroethene	9.11	130	3138166	16.78	ppbv	97
39) 1,2-Dichloropropane	8.87	63	2172716	16.33	ppbv	97
40) 1,4-Dioxane	9.16	88	318280	9.77	ppbv #	1
41) Tetrahydrofuran	7.16	42	1912079	19.27	ppbv	97
42) Bromodichloromethane	9.07	83	5140616	11.65	ppbv	99
43) Methyl Methacrylate	9.31	69	2348967	15.42	ppbv	95

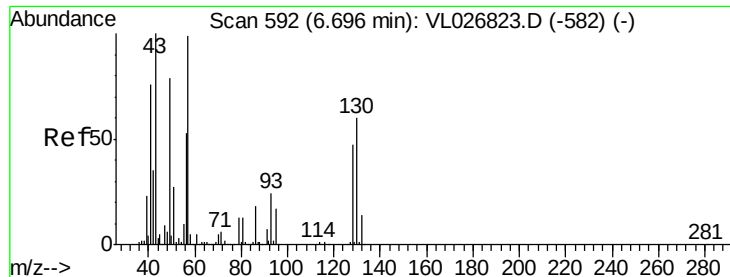
Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL020916\
 Data File : VL026829.D
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Quant Time: Feb 10 02:10:45 2016
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 02:03:34 2016
 QLast Update : Wed Feb 10 02:03:34 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.13	57	9729055	15.46	ppbv	97
45) t-1,3-Dichloropropene	10.70	75	3411987	12.94	ppbv	99
46) cis-1,3-Dichloropropene	10.07	75	4030792	14.28	ppbv	97
47) 1,1,2-Trichloroethane	10.93	97	2596670	12.34	ppbv	99
48) Dibromochloromethane	11.85	129	4629839	11.68	ppbv	100
49) Bromoform	14.87	173	3800676	11.17	ppbv	99
50) 4-Methyl-2-Pentanone	10.13	43	4627742	15.15	ppbv	98
51) 2-Hexanone	11.66	43	4246997	14.45	ppbv #	96
52) Tetrachloroethene	12.84	164	2814430	12.66	ppbv	99
53) Toluene	11.29	91	7435648	12.79	ppbv	98
54) 1,2-Dibromoethane	12.19	107	4019754	11.28	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.84	131	3559766	9.88	ppbv	89
57) Chlorobenzene	13.87	112	6490497	9.41	ppbv	98
58) Ethyl Benzene	14.46	91	9702756	8.69	ppbv	94
59) m/p-Xylene	14.77	91	15792157	16.14	ppbv	94
60) o-Xylene	15.54	91	9044195	8.36	ppbv	96
61) Styrene	15.36	104	3584516	9.22	ppbv	98
62) Isopropylbenzene	16.60	105	10575866	7.50	ppbv	96
63) 1,1,2,2-Tetrachloroethane	15.54	83	6130580	8.78	ppbv	99
64) n-propylbenzene	17.58	120	2965041	7.50	ppbv	86
65) tert-Butylbenzene	18.87	119	10791672	7.57	ppbv	99
66) Benzyl Chloride	19.16	91	4040501	7.52	ppbv	98
67) sec-Butylbenzene	19.47	105	12732928	6.11	ppbv	95
69) p-Isopropyltoluene	19.85	119	11236273	6.67	ppbv	97
70) n-Butylbenzene	20.81	91	10465491	5.97	ppbv	95
71) 2-Chlorotoluene	17.48	91	7746160	7.06	ppbv	95
72) 4-Ethyltoluene	17.88	105	8833510	7.18	ppbv	98
73) 1,3,5-Trimethylbenzene	18.04	105	8459025	6.99	ppbv	95
74) 1,2,4-Trimethylbenzene	18.89	105	9616693	7.19	ppbv	98
75) 1,3-Dichlorobenzene	19.18	146	5937137	6.75	ppbv	99
76) 1,4-Dichlorobenzene	19.33	146	5842270	6.63	ppbv	99
77) 1,2-Dichlorobenzene	20.08	146	5633498	6.17	ppbv	99
78) Hexachloro-1,3-Butadiene	24.71	225	2515288	5.64	ppbv	100
79) Naphthalene	23.97	128	4777793	4.13	ppbv	98
80) Naphthalene,2-methyl-	26.09	142	1704161	8.52	ppbv	99
81) 1,2,4-Trichlorobenzene	23.78	180	2653199	5.22	ppbv	99

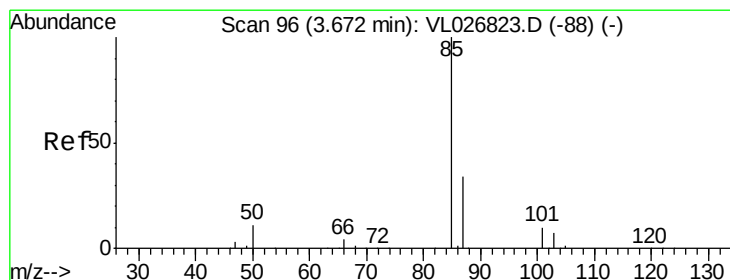
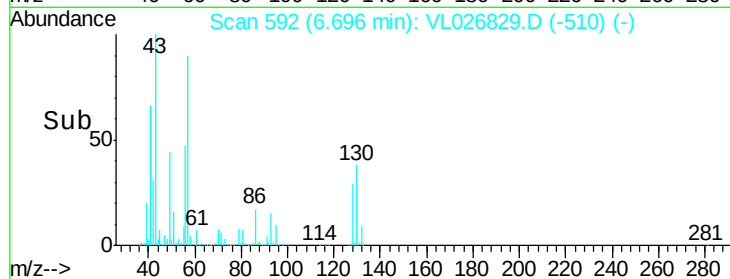
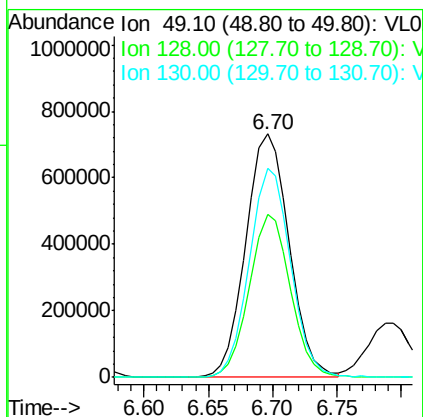
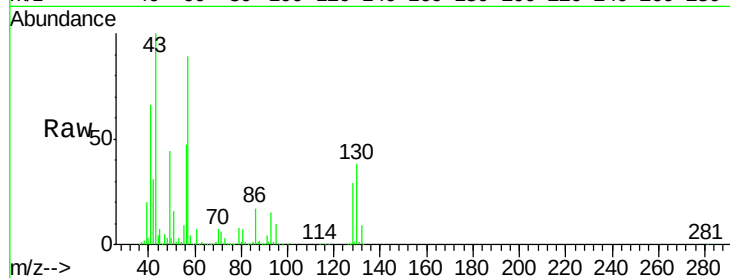
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.70 min Scan# 592
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

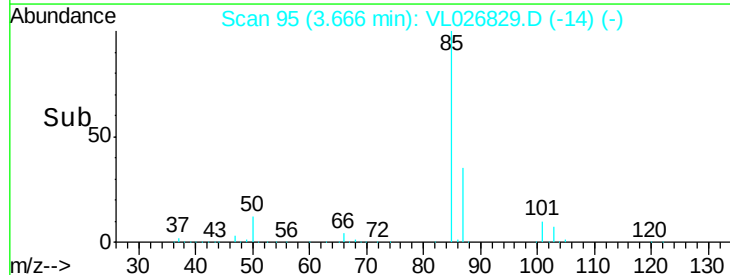
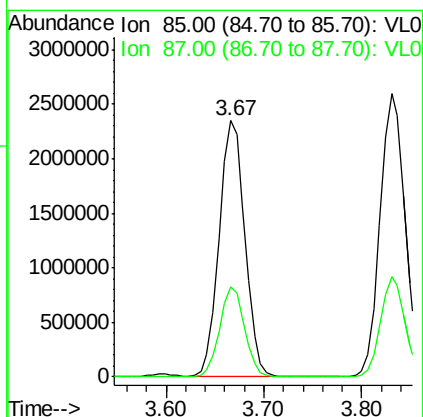
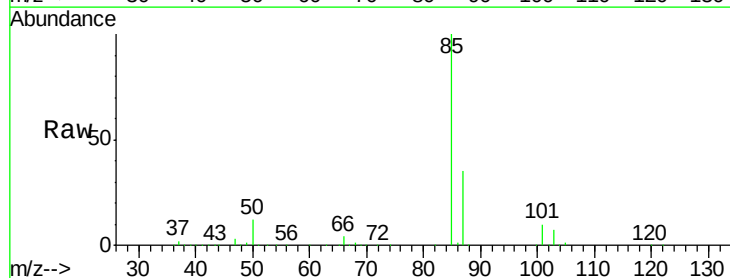
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

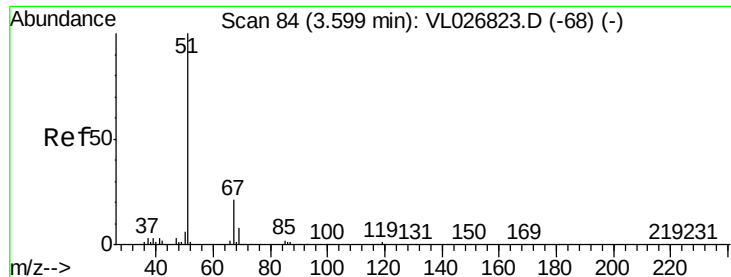
Tgt Ion: 49 Resp: 1708507
Ion Ratio Lower Upper
49 100
128 64.0 29.7 89.1
130 82.5 38.3 114.8



#2
Dichlorodifluoromethane
Concen: 7.91 ppbv
RT: 3.67 min Scan# 95
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 85 Resp: 4292670
Ion Ratio Lower Upper
85 100
87 35.1 27.3 40.9





#3

Chlorodifluoromethane

Concen: 7.79 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

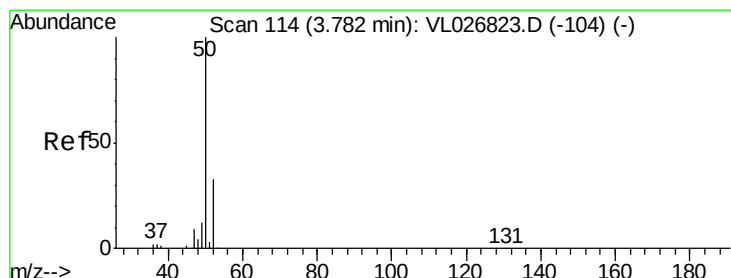
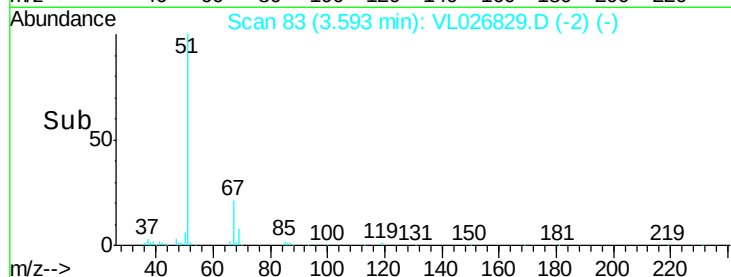
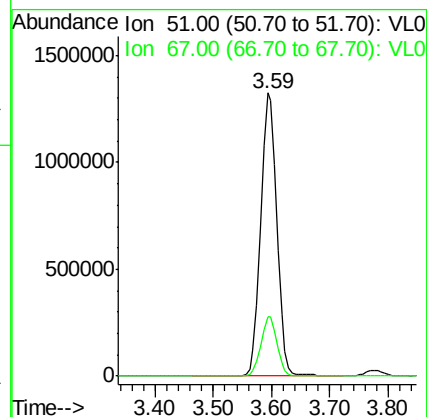
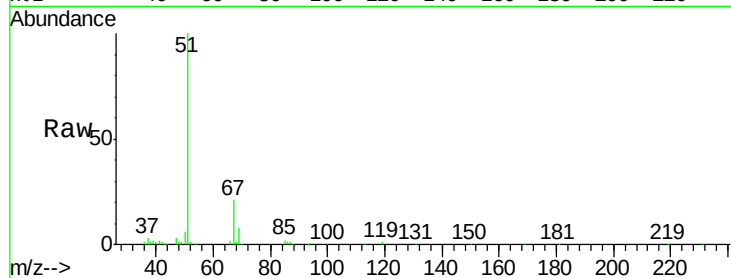
VSTDIC015

Tgt Ion: 51 Resp: 2555789

Ion Ratio Lower Upper

51 100

67 20.9 16.4 24.6



#4

Chloromethane

Concen: 14.73 ppbv

RT: 3.78 min Scan# 113

Delta R.T. -0.01 min

Lab File: VL026829.D

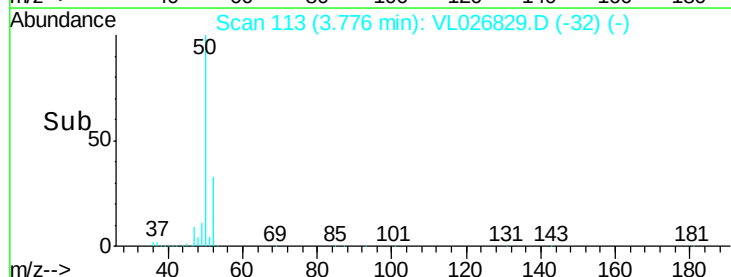
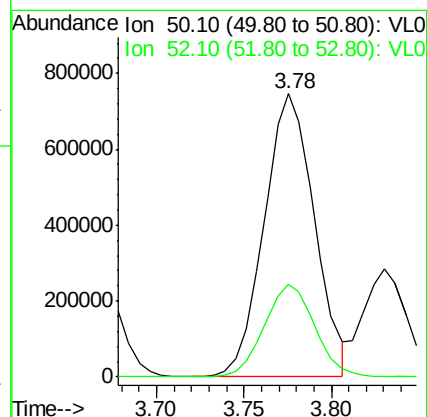
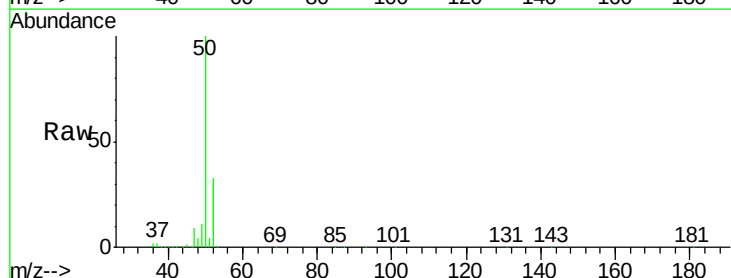
Acq: 9 Feb 2016 20:48

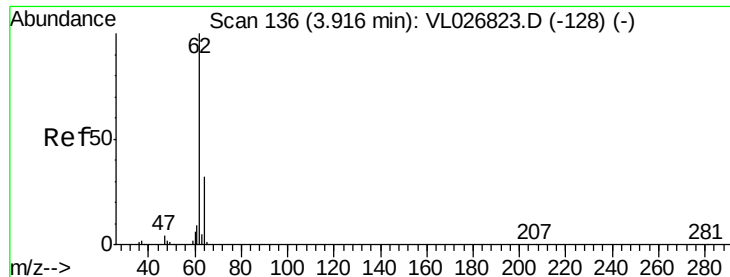
Tgt Ion: 50 Resp: 1494480

Ion Ratio Lower Upper

50 100

52 32.8 26.3 39.5





#5

Vinyl Chloride

Concen: 14.08 ppbv

RT: 3.92 min Scan# 136

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

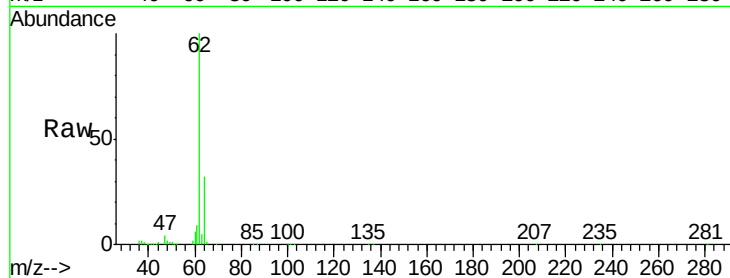
VSTDIC015

Tgt Ion: 62 Resp: 1693118

Ion Ratio Lower Upper

62 100

64 31.7 25.8 38.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.92

800000

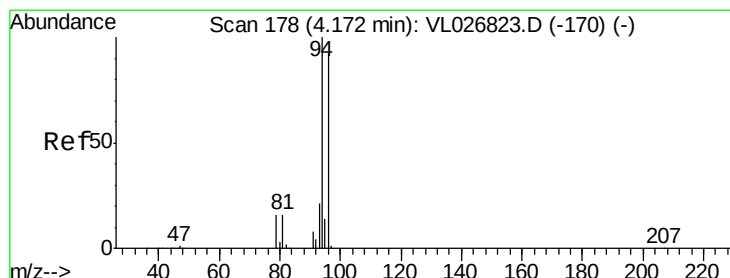
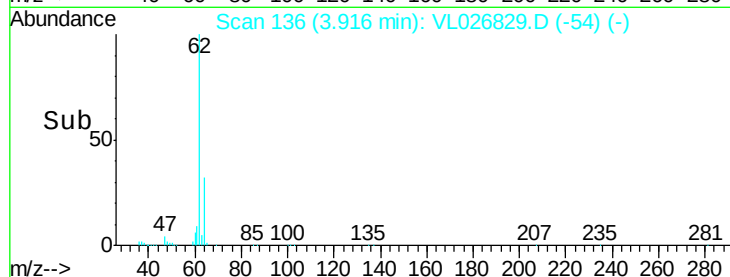
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 14.35 ppbv

RT: 4.17 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL026829.D

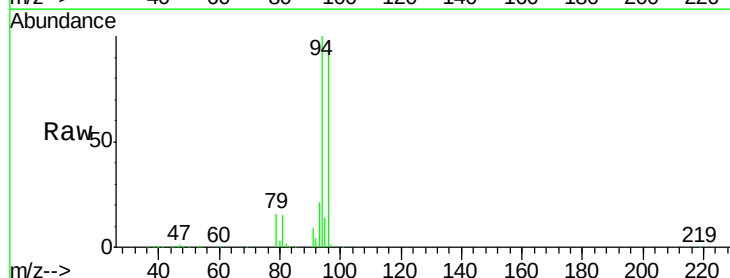
Acq: 9 Feb 2016 20:48

Tgt Ion: 94 Resp: 1486577

Ion Ratio Lower Upper

94 100

96 93.2 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

4.17

800000

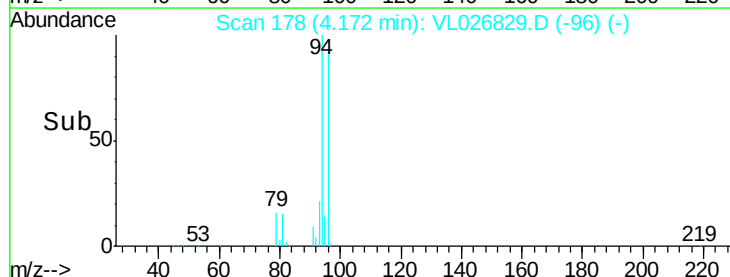
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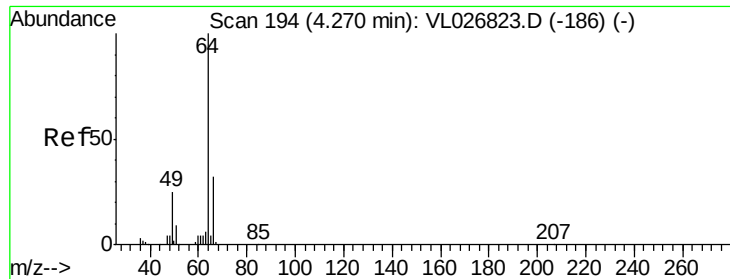
400000

200000

0

Time-->





#7

Chloroethane

Concen: 13.94 ppbv

RT: 4.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

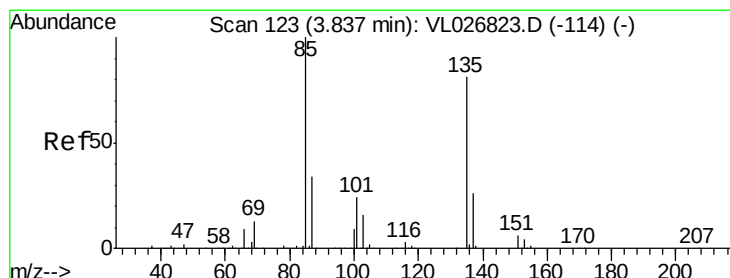
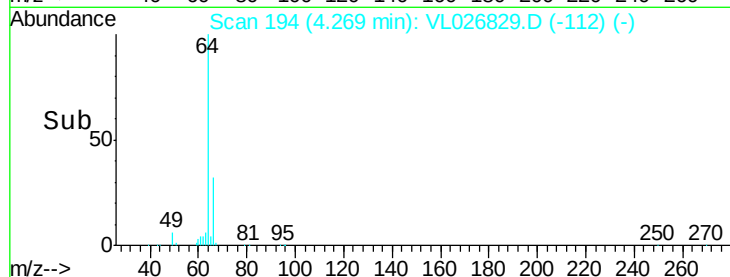
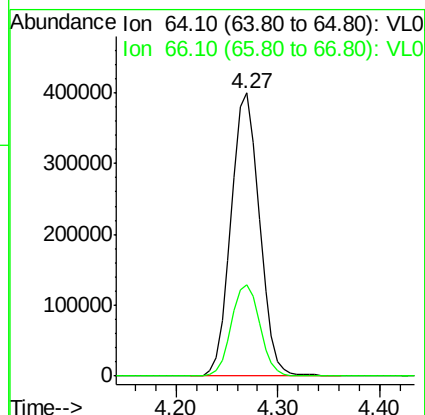
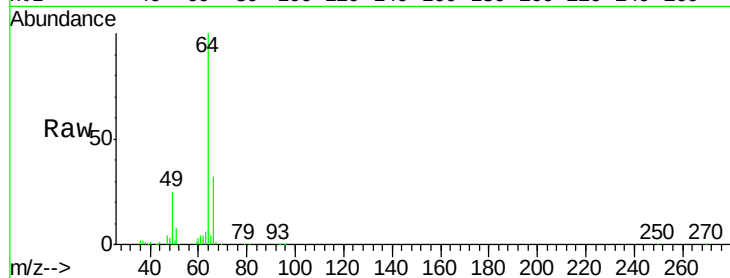
VSTDIC015

Tgt Ion: 64 Resp: 771526

Ion Ratio Lower Upper

64 100

66 32.1 25.4 38.0



#8

Dichlorotetrafluoroethane

Concen: 11.54 ppbv

RT: 3.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL026829.D

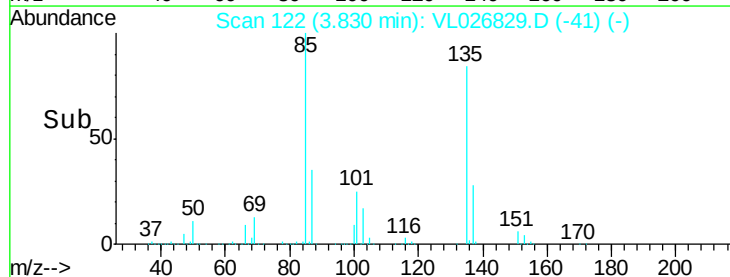
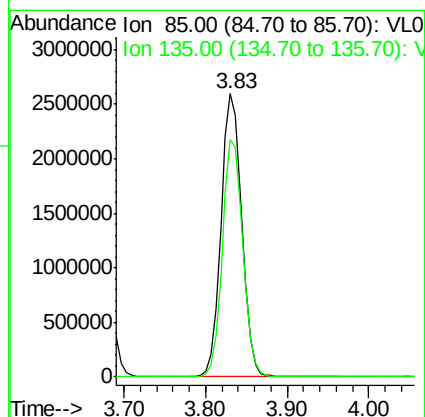
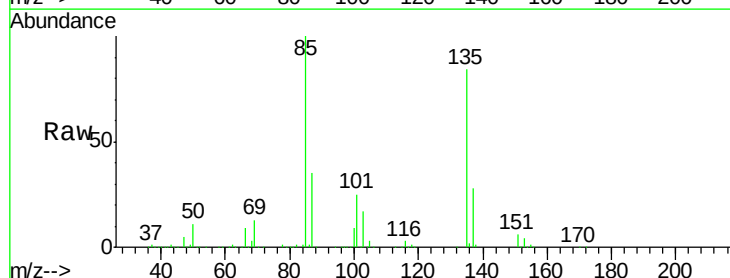
Acq: 9 Feb 2016 20:48

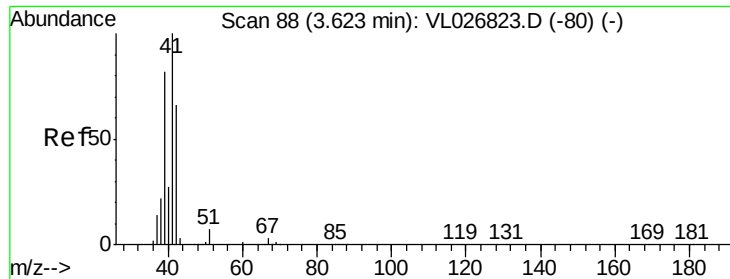
Tgt Ion: 85 Resp: 4578510

Ion Ratio Lower Upper

85 100

135 83.1 63.2 94.8





#9

Propene

Concen: 16.03 ppbv

RT: 3.62 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

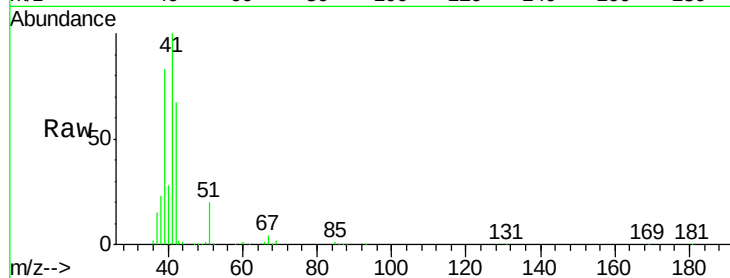
VSTDIC015

Tgt Ion: 41 Resp: 1076903

Ion Ratio Lower Upper

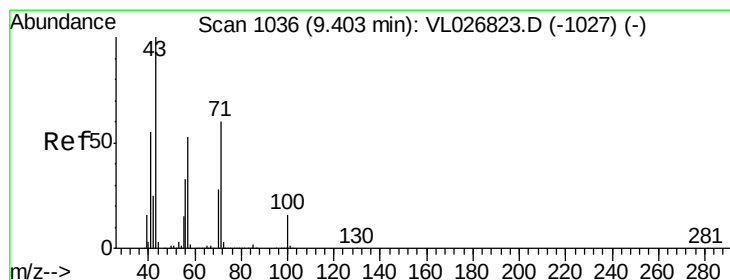
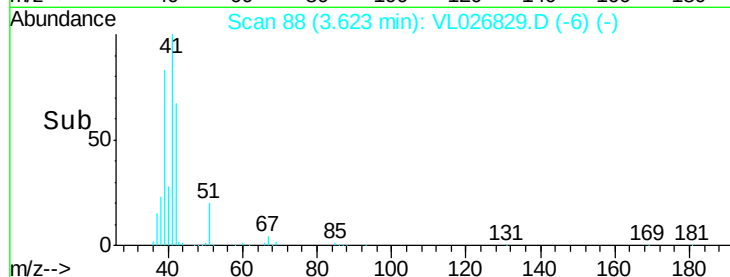
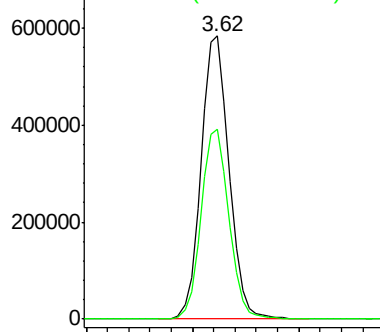
41 100

42 67.3 52.8 79.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 15.32 ppbv

RT: 9.40 min Scan# 1035

Delta R.T. -0.01 min

Lab File: VL026829.D

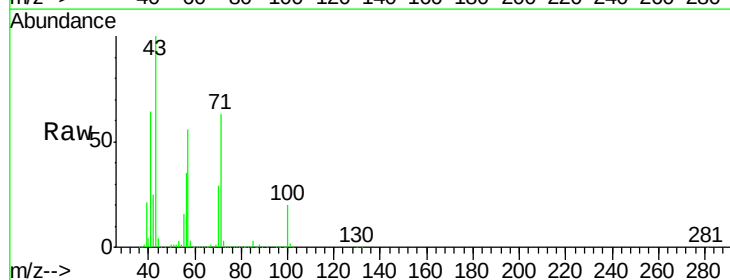
Acq: 9 Feb 2016 20:48

Tgt Ion: 43 Resp: 3943101

Ion Ratio Lower Upper

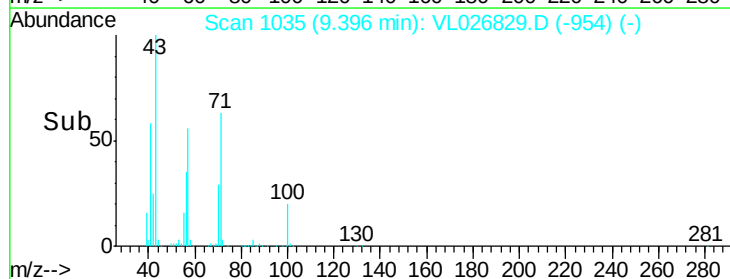
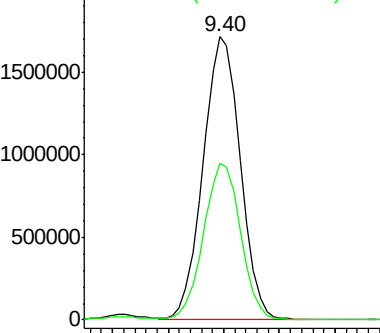
43 100

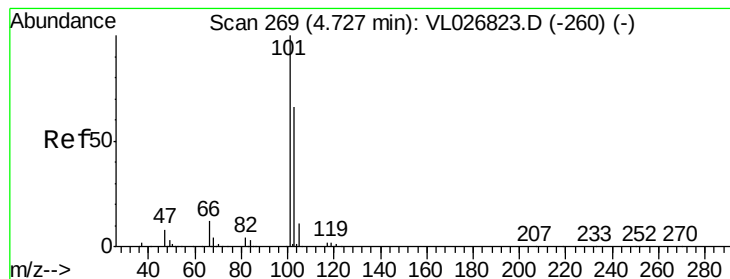
57 56.9 44.0 66.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 9.73 ppbv

RT: 4.73 min Scan# 269

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

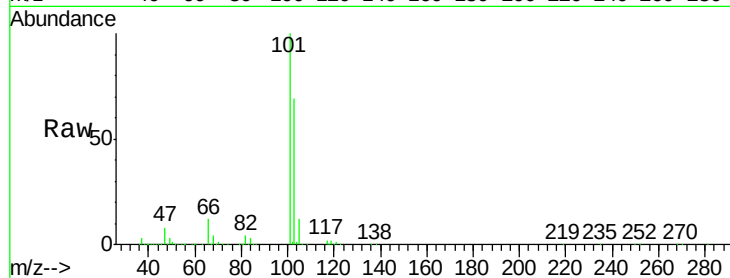
VSTDIC015

Tgt Ion:101 Resp: 6076178

Ion Ratio Lower Upper

101 100

103 69.4 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.73

3000000

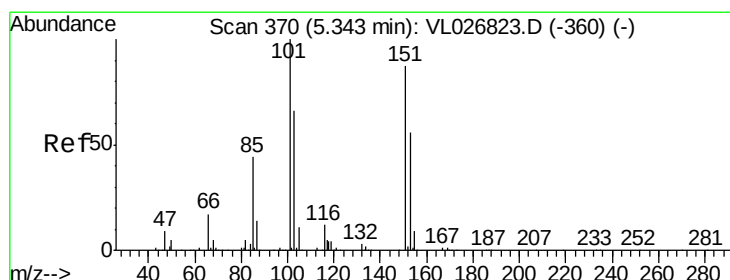
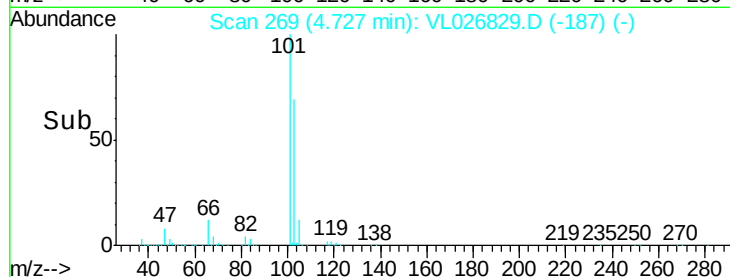
2000000

1000000

0

Time-->

4.60 4.70 4.80



#12

1,1,2-Trichlorotrifluoroethane

Concen: 12.31 ppbv

RT: 5.34 min Scan# 369

Delta R.T. -0.01 min

Lab File: VL026829.D

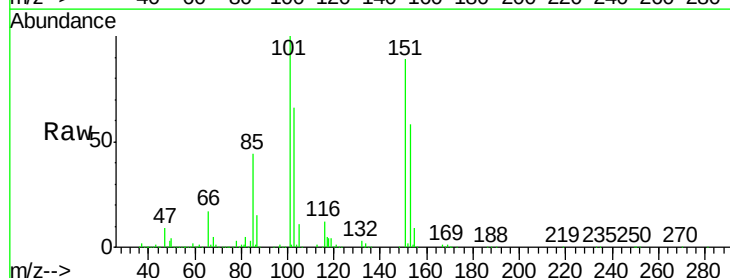
Acq: 9 Feb 2016 20:48

Tgt Ion:101 Resp: 4515911

Ion Ratio Lower Upper

101 100

151 89.6 69.4 104.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

5.34

2500000

2000000

1500000

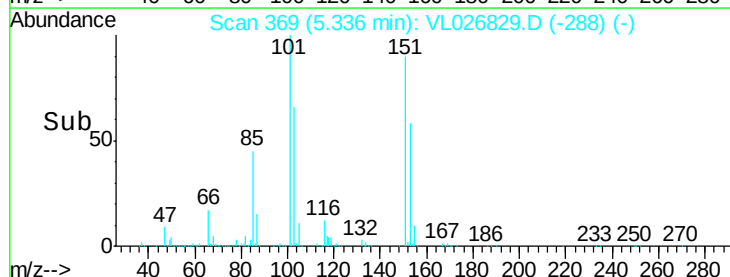
1000000

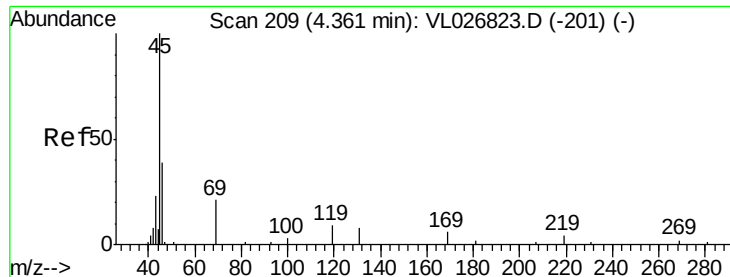
500000

0

Time-->

5.20 5.30 5.40





#13

Ethanol

Concen: 7.30 ppbv

RT: 4.36 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

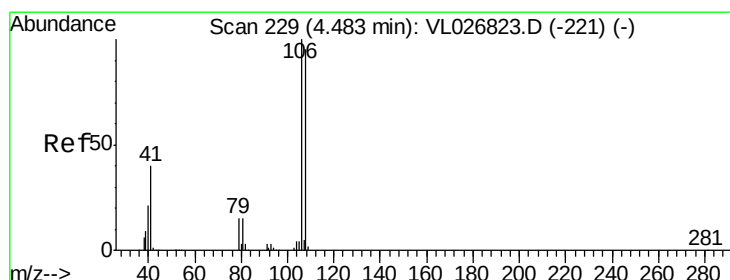
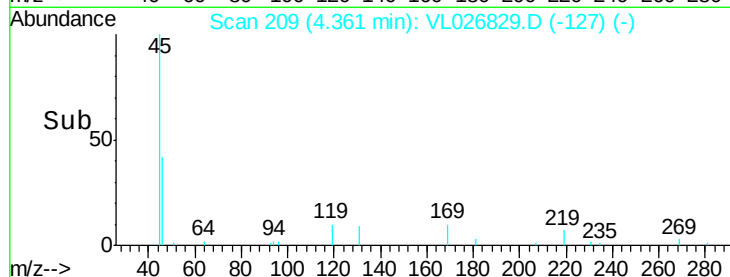
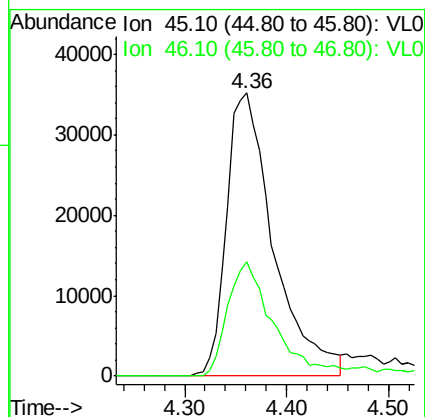
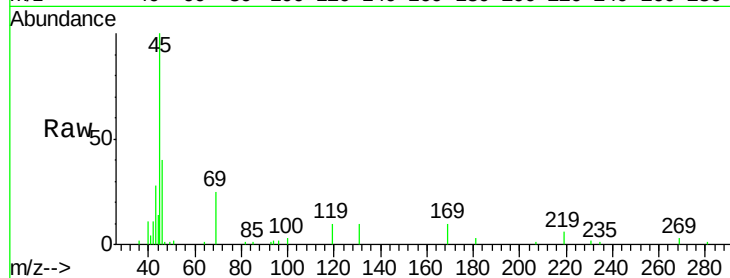
VSTDIC015

Tgt Ion: 45 Resp: 112721

Ion Ratio Lower Upper

45 100

46 41.9 15.8 63.4



#14

Bromoethene

Concen: 14.44 ppbv

RT: 4.48 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

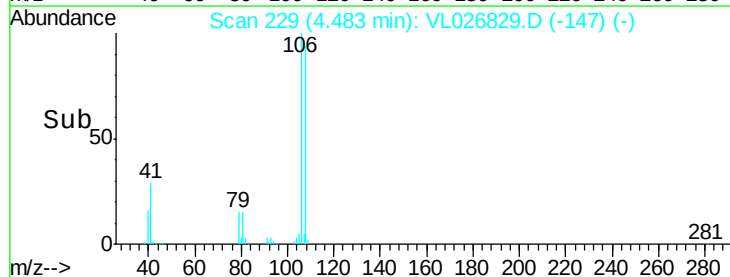
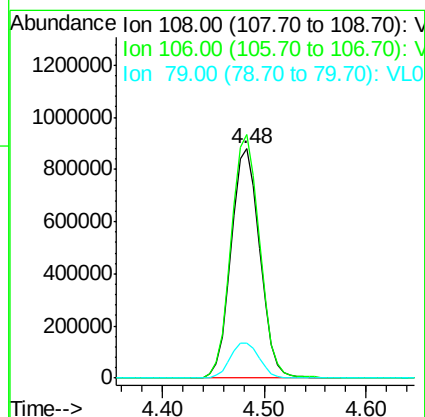
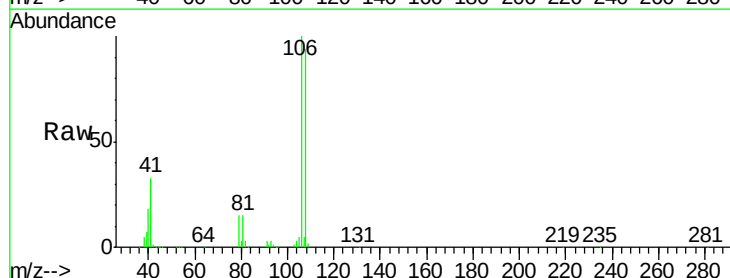
Tgt Ion: 108 Resp: 1711726

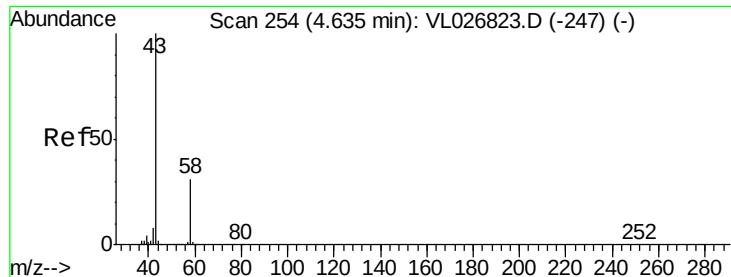
Ion Ratio Lower Upper

108 100

106 106.0 84.6 126.8

79 16.2 13.4 20.0





#15

Acetone

Concen: 6.62 ppbv

RT: 4.63 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

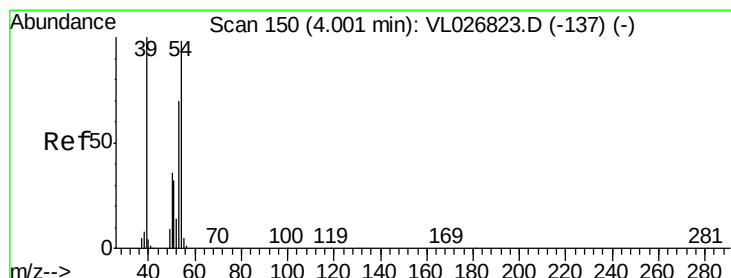
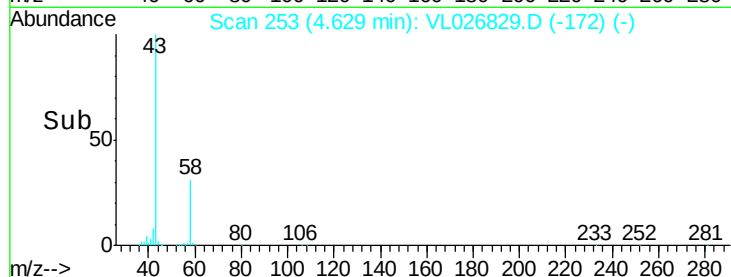
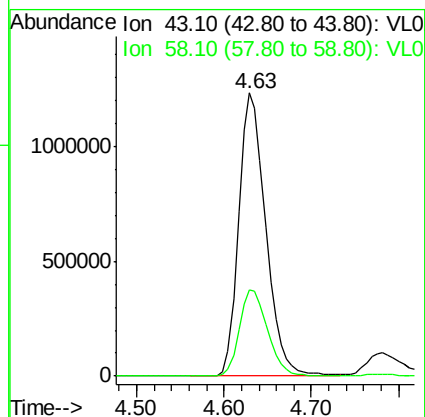
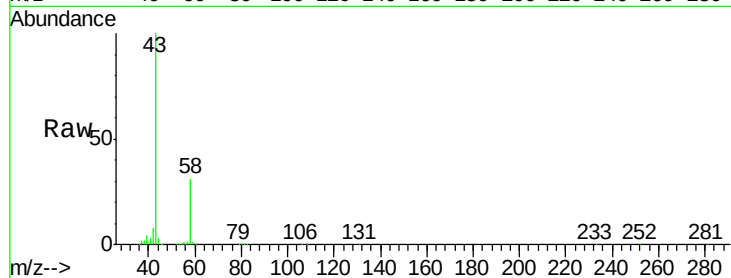
VSTDIC015

Tgt Ion: 43 Resp: 2658640

Ion Ratio Lower Upper

43 100

58 31.9 25.2 37.8



#16

1,3-Butadiene

Concen: 11.63 ppbv

RT: 4.00 min Scan# 149

Delta R.T. -0.01 min

Lab File: VL026829.D

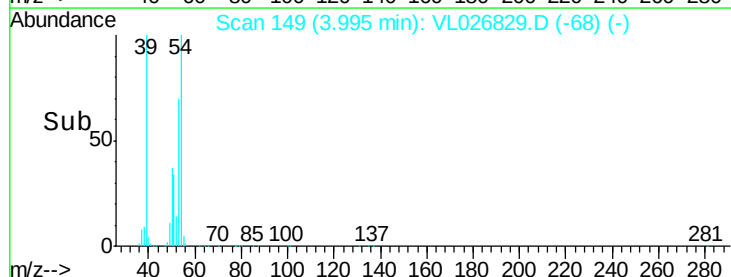
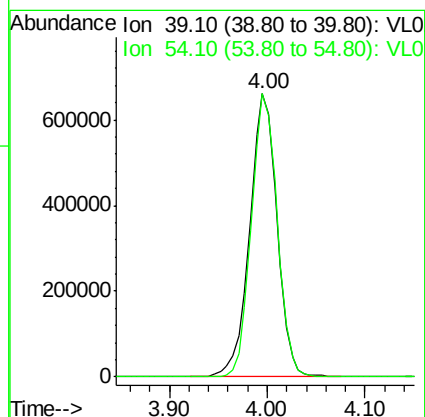
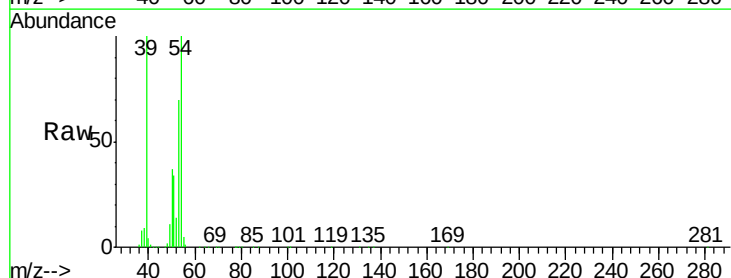
Acq: 9 Feb 2016 20:48

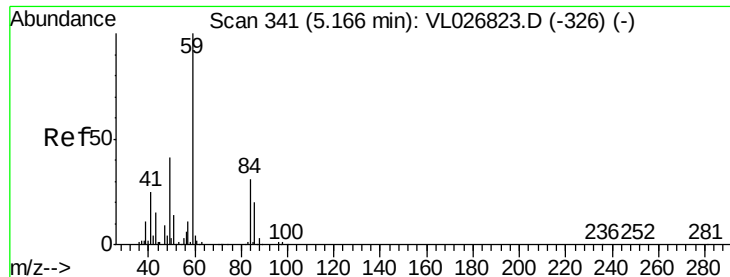
Tgt Ion: 39 Resp: 1279444

Ion Ratio Lower Upper

39 100

54 95.4 74.7 112.1





#17

tert-Butyl alcohol

Concen: 12.48 ppbv

RT: 5.15 min Scan# 339

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

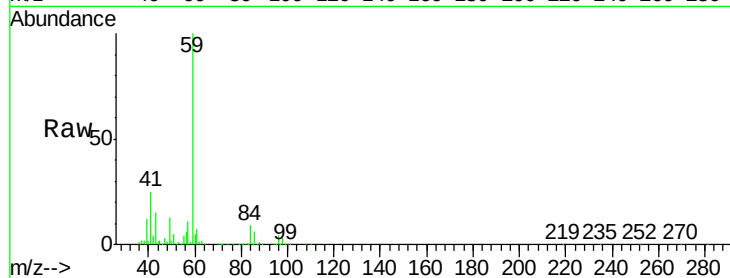
VSTDIC015

Tgt Ion: 59 Resp: 2691153

Ion Ratio Lower Upper

59 100

57 11.2 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

5.15

800000

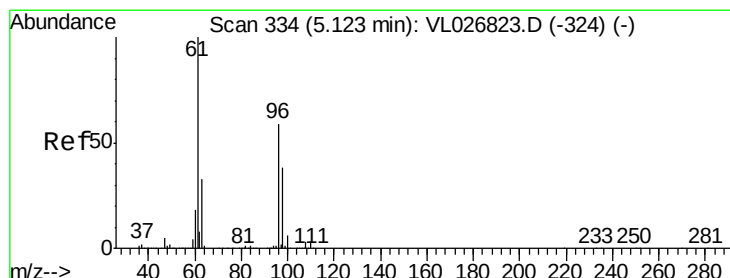
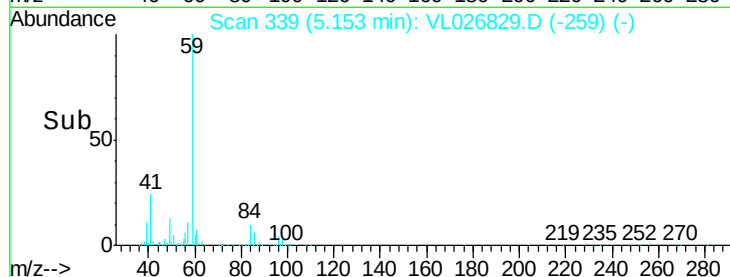
600000

400000

200000

0

Time-->



#18

1,1-Dichloroethene

Concen: 13.88 ppbv

RT: 5.12 min Scan# 333

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

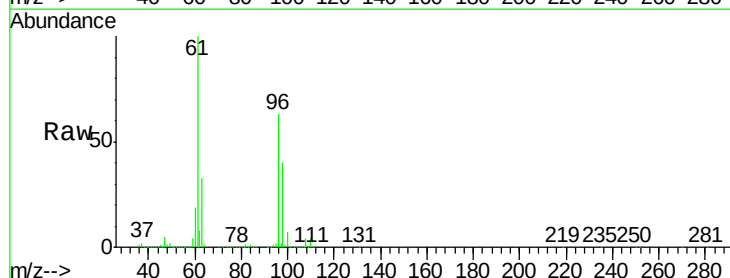
Tgt Ion: 96 Resp: 1954765

Ion Ratio Lower Upper

96 100

61 159.9 136.7 205.1

98 64.2 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

2000000

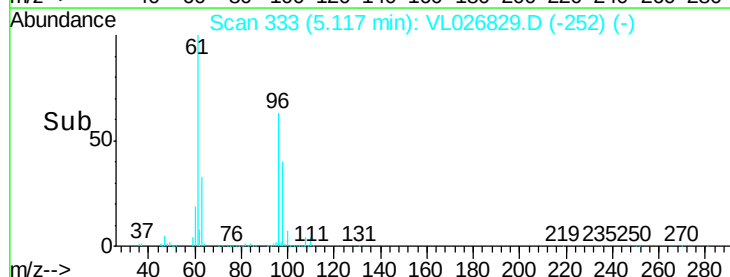
1500000

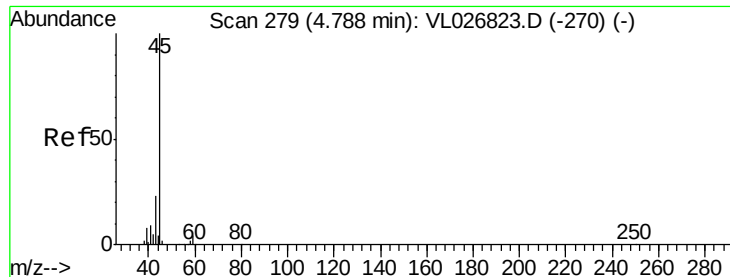
1000000

500000

0

Time-->



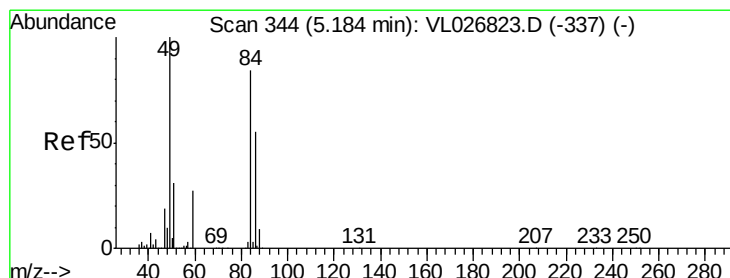
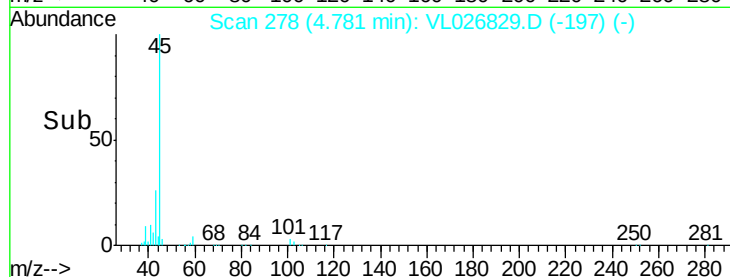
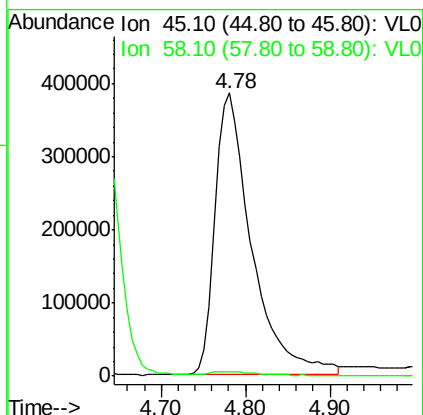
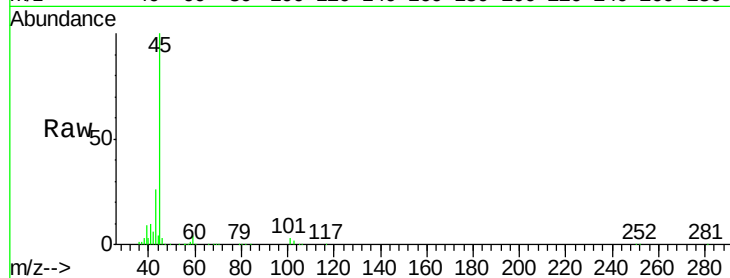


#19

Isopropyl Alcohol
 Concen: 10.94 ppbv
 RT: 4.78 min Scan# 278
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

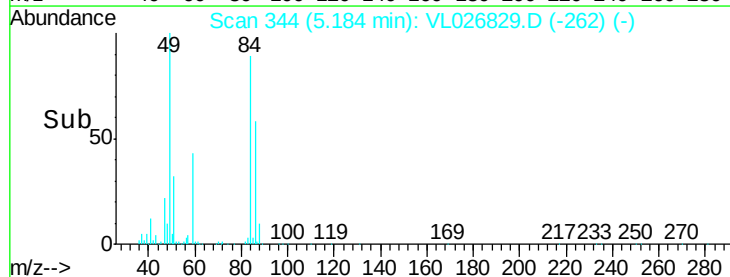
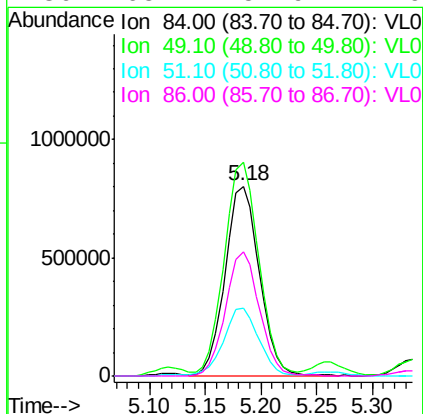
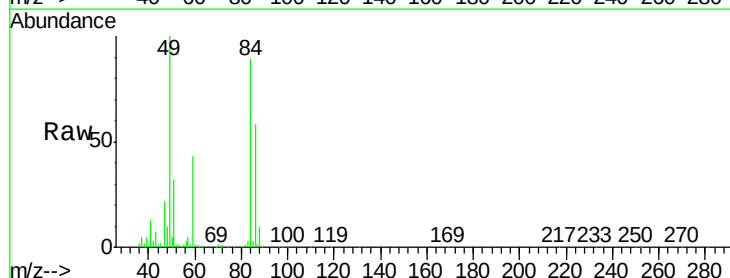
Tgt Ion: 45 Resp: 1158281
 Ion Ratio Lower Upper
 45 100
 58 2.3 2.2 3.2

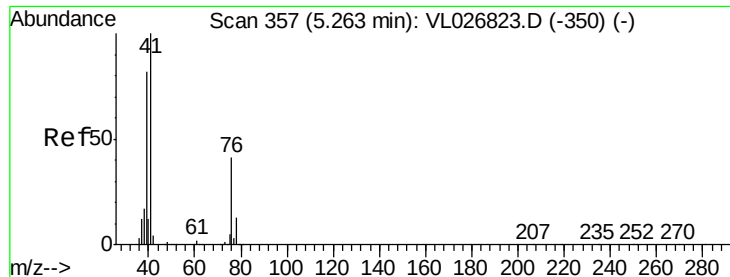


#20

Methylene Chloride
 Concen: 13.15 ppbv
 RT: 5.18 min Scan# 344
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion: 84 Resp: 1717353
 Ion Ratio Lower Upper
 84 100
 49 110.9 94.9 142.3
 51 35.4 29.5 44.3
 86 65.4 51.9 77.9

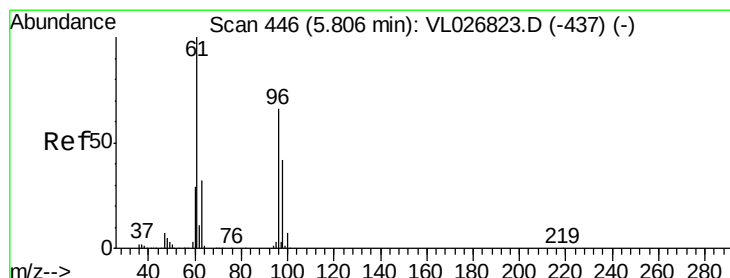
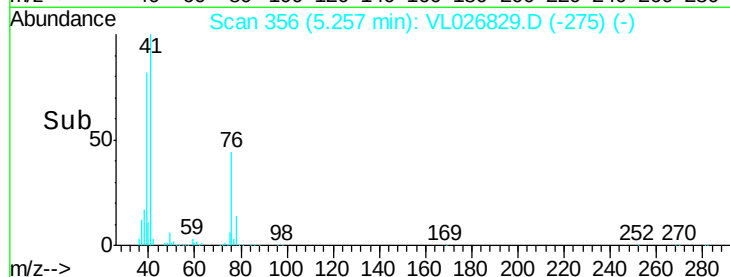
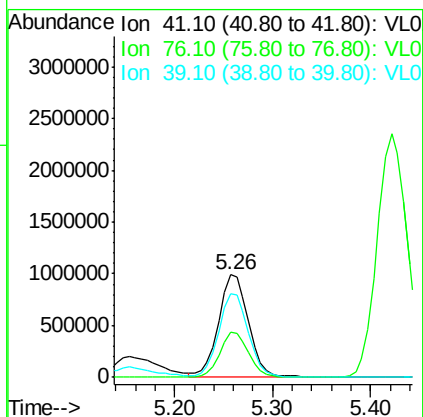
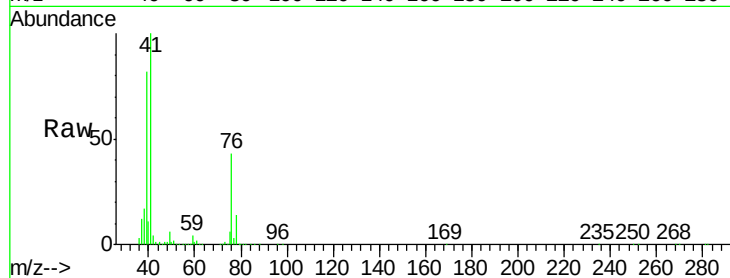




#21
 Allyl Chloride
 Concen: 12.21 ppbv
 RT: 5.26 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

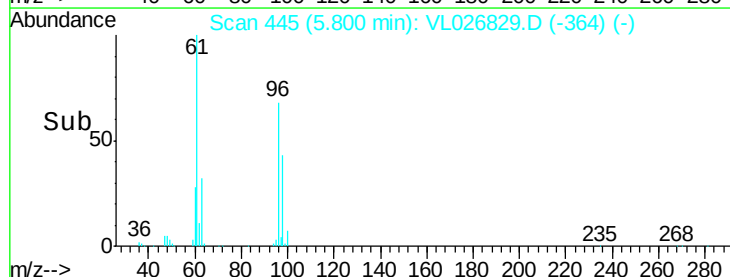
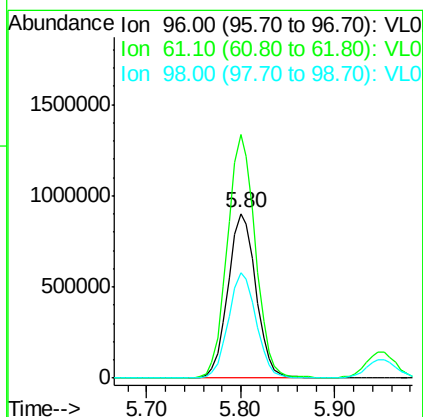
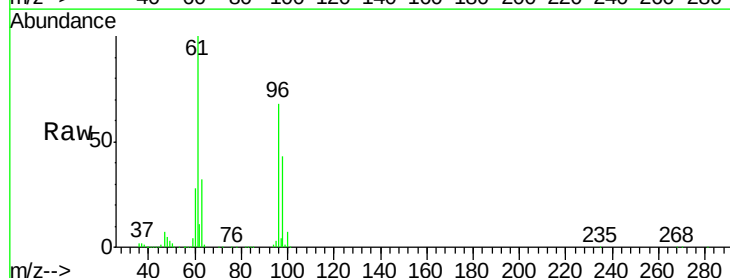
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

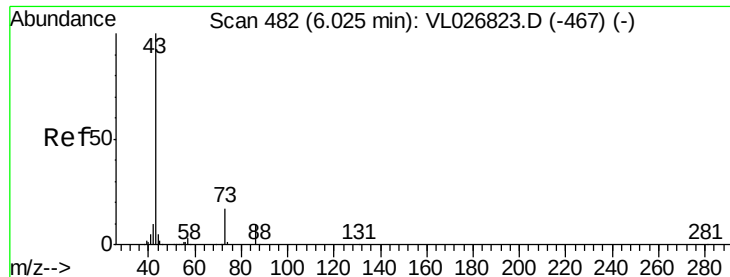
Tgt Ion: 41 Resp: 2076038
 Ion Ratio Lower Upper
 41 100
 76 42.3 32.0 48.0
 39 82.2 64.6 96.8



#22
 trans-1,2-Dichloroethene
 Concen: 13.90 ppbv
 RT: 5.80 min Scan# 445
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion: 96 Resp: 1868388
 Ion Ratio Lower Upper
 96 100
 61 148.0 121.6 182.4
 98 64.2 50.6 76.0





#23

Vinyl Acetate

Concen: 11.23 ppbv

RT: 6.02 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

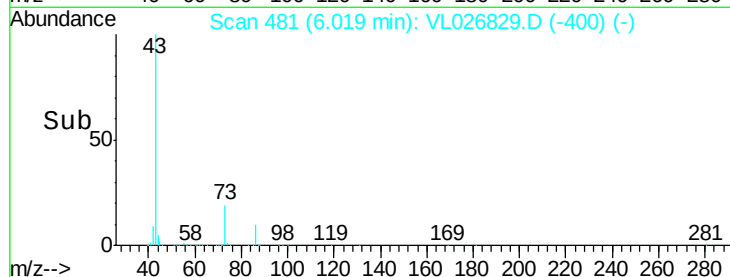
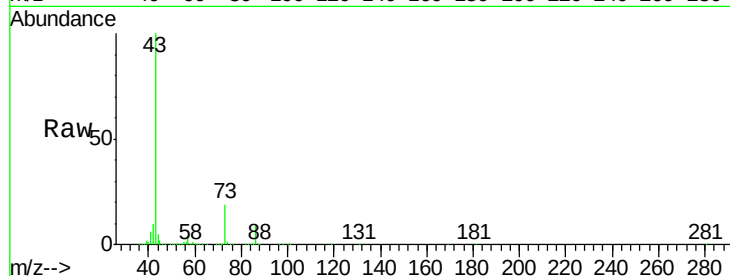
MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 4796247

Ion	Ratio	Lower	Upper
43	100		
86	10.1	7.7	11.5
42	9.7	7.8	11.8
44	5.4	3.9	5.9

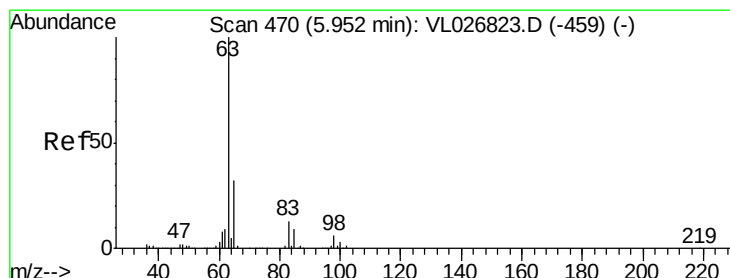


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 12.54 ppbv

RT: 5.95 min Scan# 469

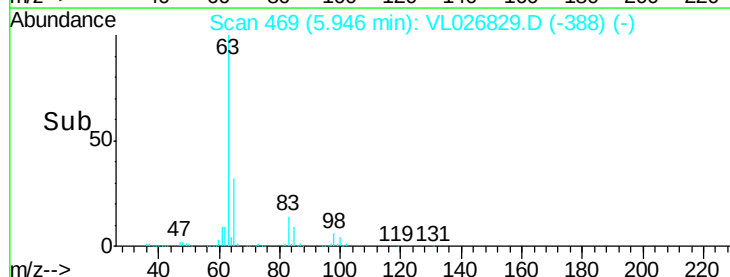
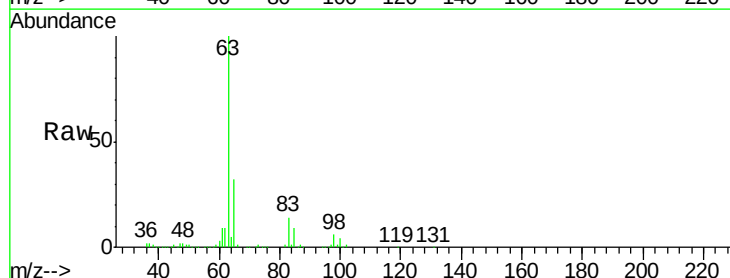
Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Tgt Ion: 63 Resp: 3761299

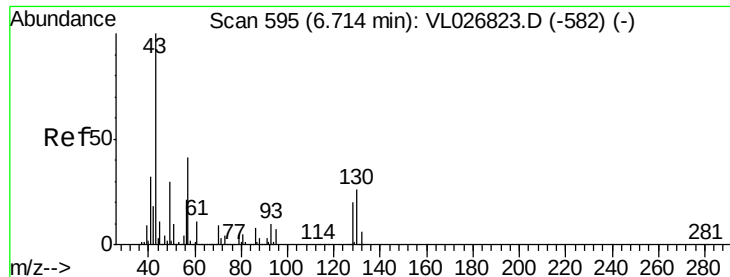
Ion	Ratio	Lower	Upper
63	100		
98	6.1	2.9	8.7
100	3.8	1.7	5.1



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

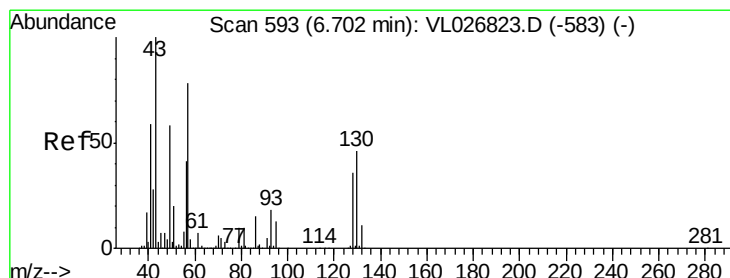
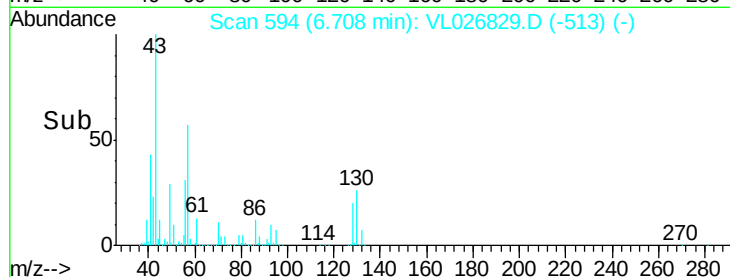
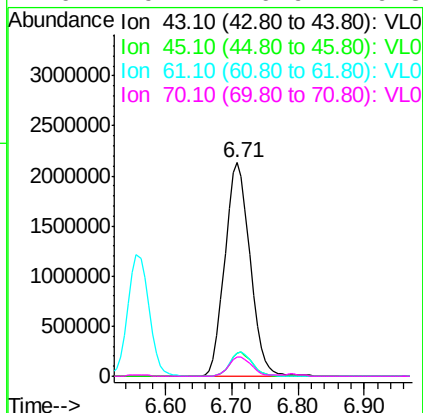
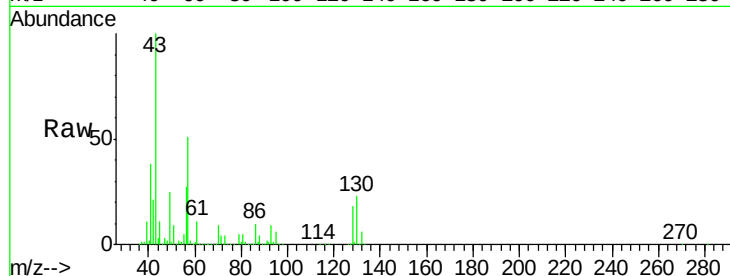


#25
Ethyl Acetate
Concen: 14.17 ppbv
RT: 6.71 min Scan# 594
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 5609940

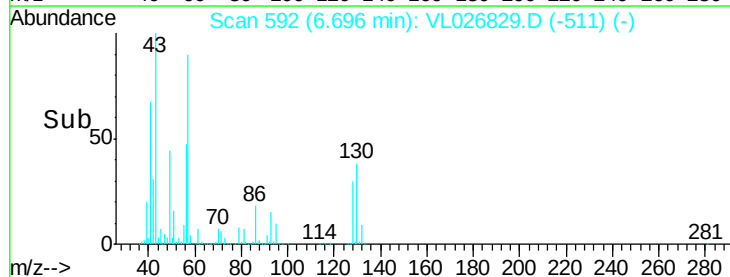
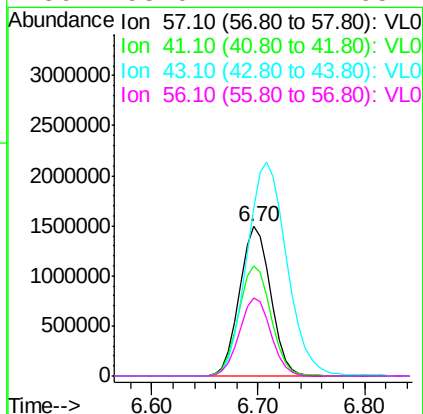
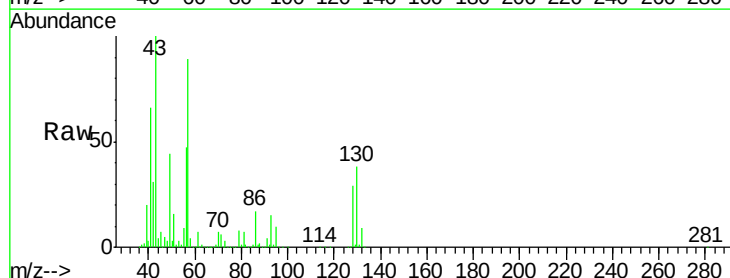
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.8	11.8
61	10.3	7.9	11.9
70	9.2	6.9	10.3

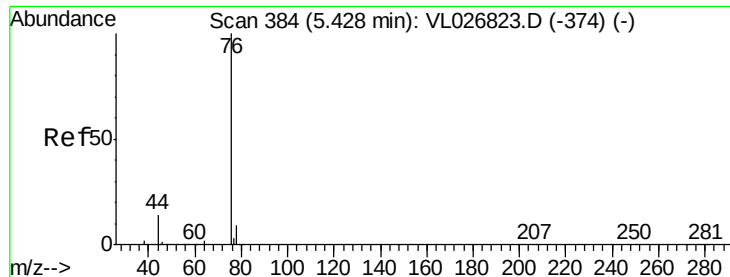


#26
Hexane
Concen: 15.64 ppbv
RT: 6.70 min Scan# 592
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 57 Resp: 3081179

Ion	Ratio	Lower	Upper
57	100		
41	77.4	63.3	94.9
43	182.1	151.4	227.2
56	53.0	42.2	63.2





#27

Carbon Disulfide

Concen: 13.05 ppbv

RT: 5.42 min Scan# 383

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

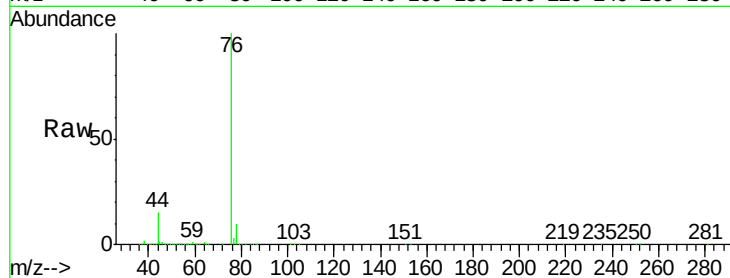
Tgt Ion: 76 Resp: 5120822

Ion Ratio Lower Upper

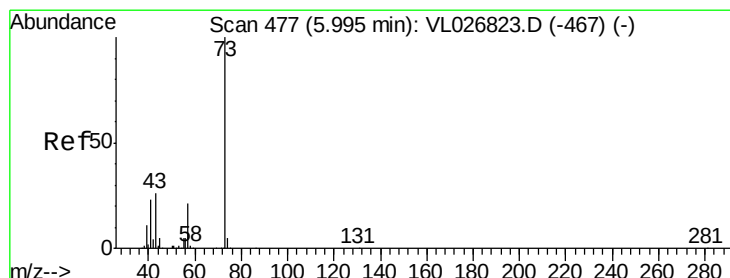
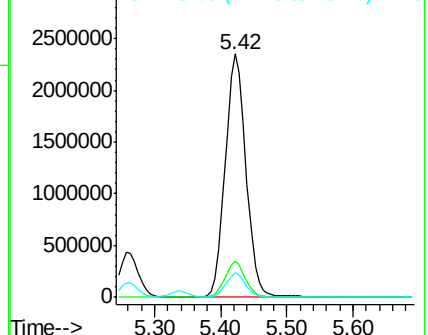
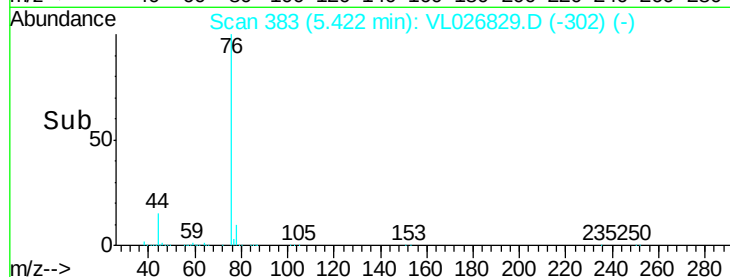
76 100

44 14.3 12.1 18.1

78 9.7 7.7 11.5



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: 11.18 ppbv

RT: 5.99 min Scan# 476

Delta R.T. -0.01 min

Lab File: VL026829.D

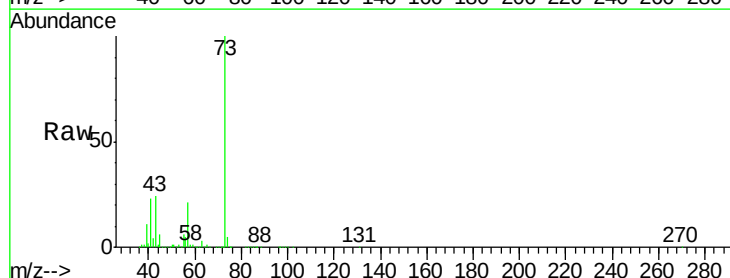
Acq: 9 Feb 2016 20:48

Tgt Ion: 73 Resp: 4905662

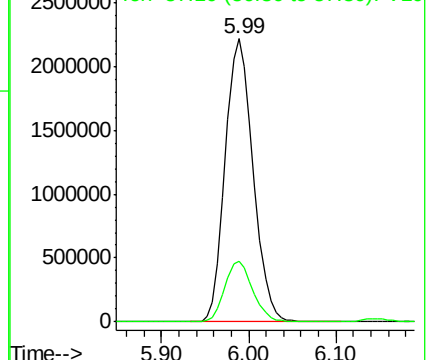
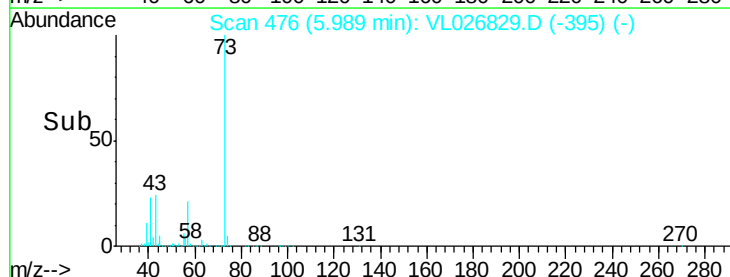
Ion Ratio Lower Upper

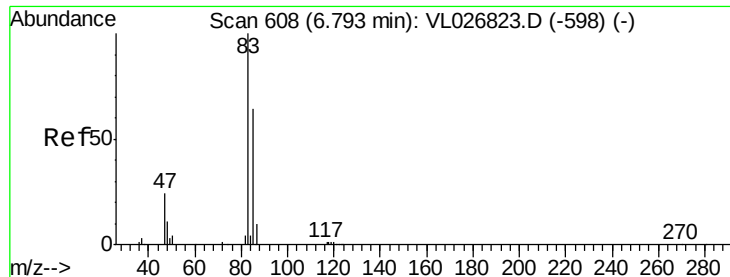
73 100

57 21.5 17.0 25.6



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





#29

Chloroform

Concen: 10.64 ppbv

RT: 6.79 min Scan# 608

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

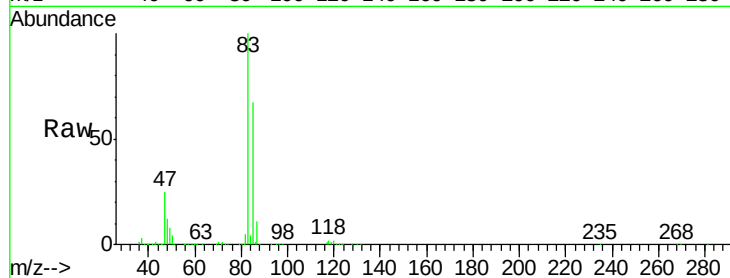
VSTDIC015

Tgt Ion: 83 Resp: 4687332

Ion Ratio Lower Upper

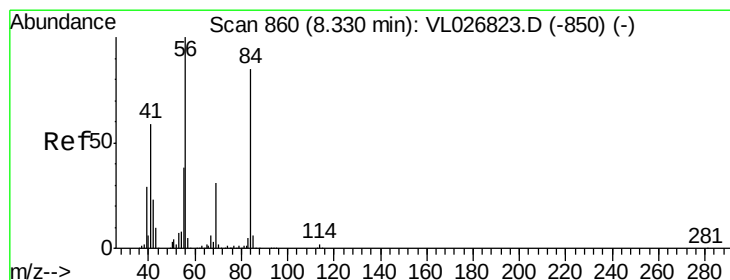
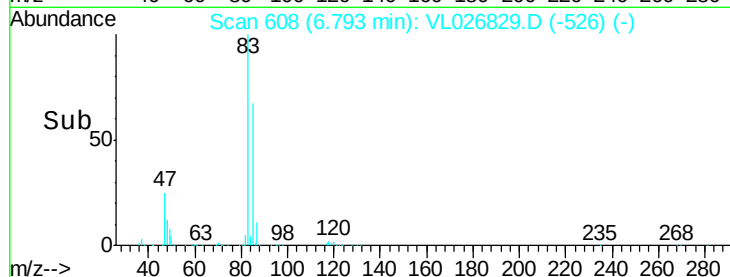
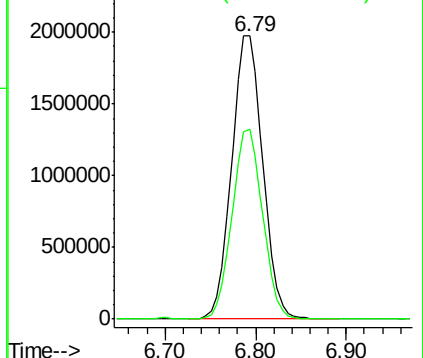
83 100

85 67.0 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 13.58 ppbv

RT: 8.32 min Scan# 859

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

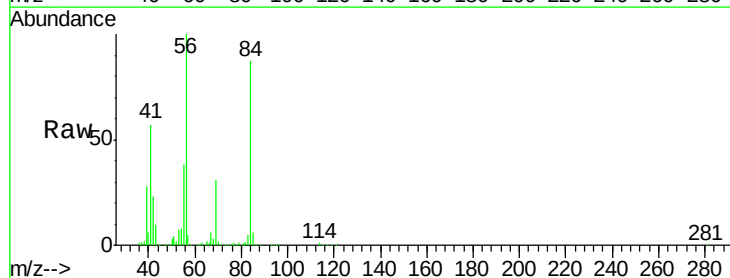
Tgt Ion: 84 Resp: 2755677

Ion Ratio Lower Upper

84 100

56 118.6 99.4 149.2

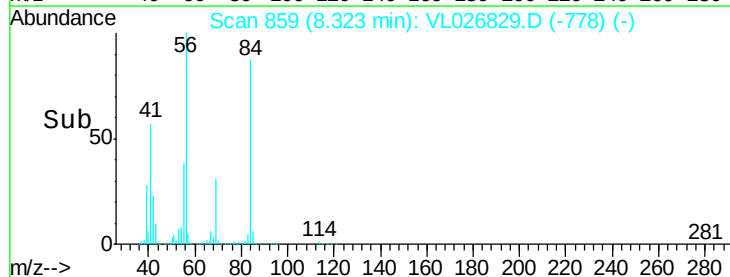
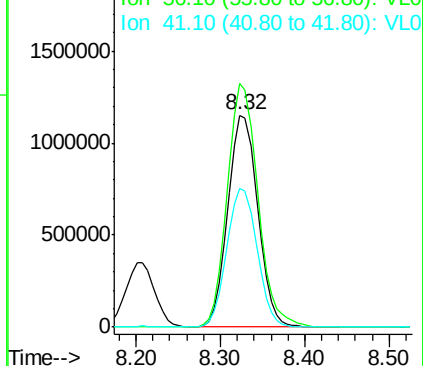
41 66.5 56.7 85.1

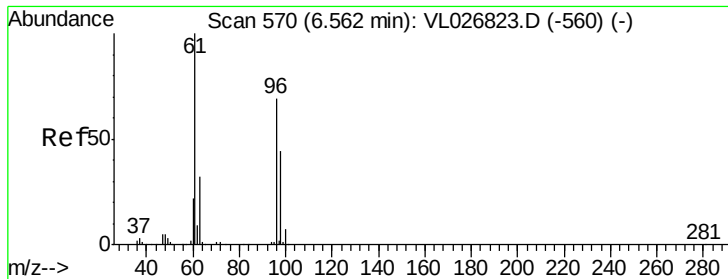


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 12.72 ppbv

RT: 6.56 min Scan# 569

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

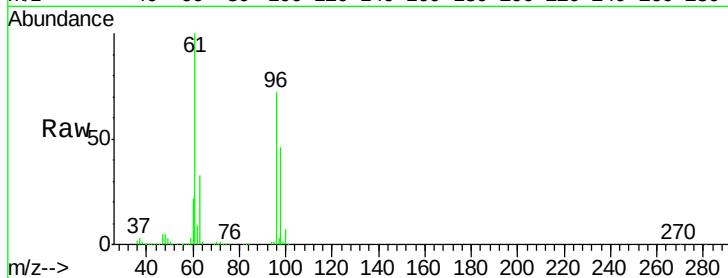
Tgt Ion: 61 Resp: 2721325

Ion Ratio Lower Upper

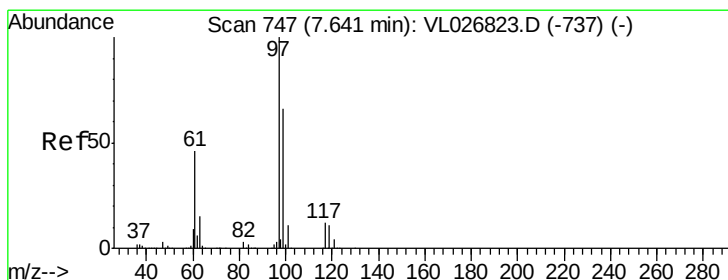
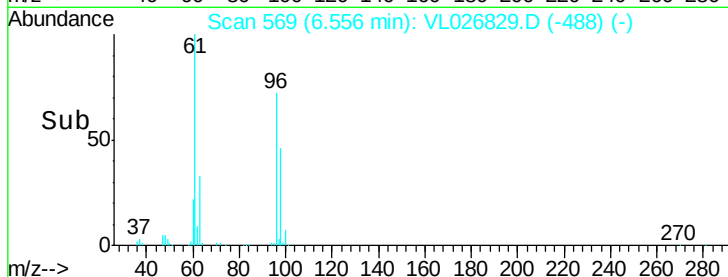
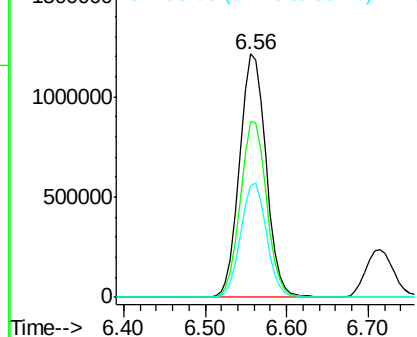
61 100

96 72.0 55.2 82.8

98 46.1 35.2 52.8



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: 9.63 ppbv

RT: 7.64 min Scan# 747

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

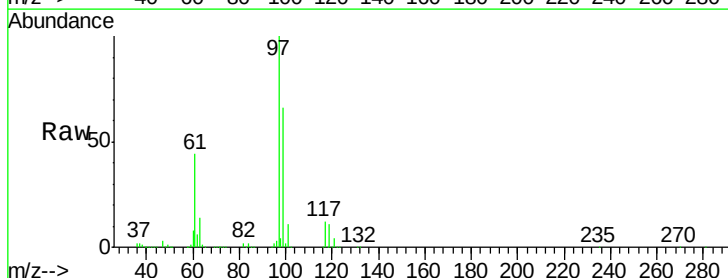
Tgt Ion: 97 Resp: 4837041

Ion Ratio Lower Upper

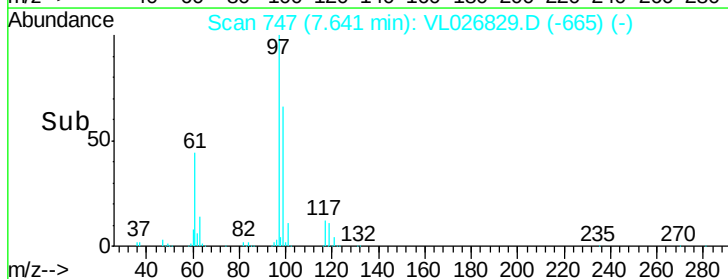
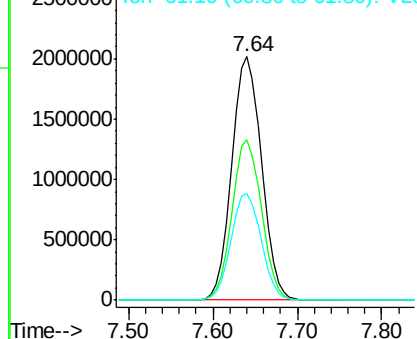
97 100

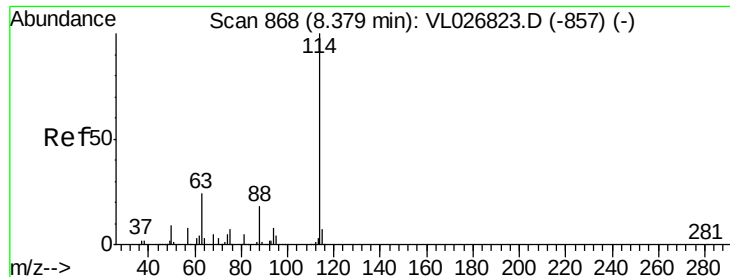
99 65.3 52.0 78.0

61 44.4 36.2 54.4



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





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.37 min Scan# 867

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

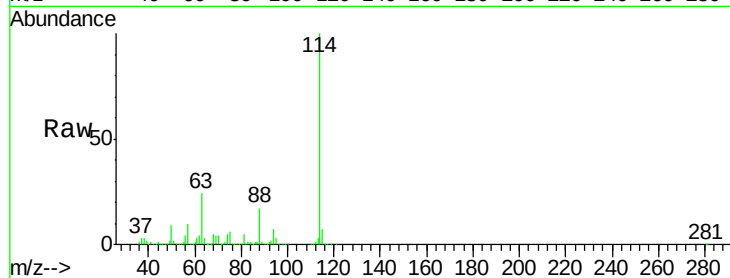
Tgt Ion:114 Resp: 4721391

Ion Ratio Lower Upper

114 100

63 24.3 19.7 29.5

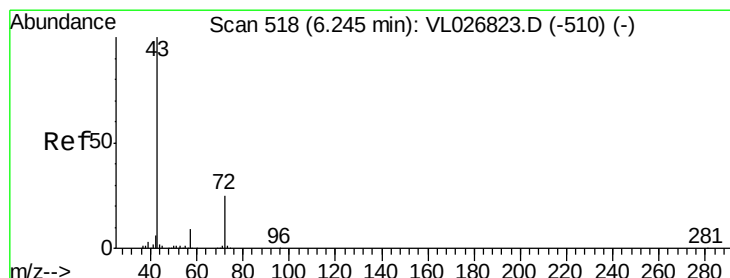
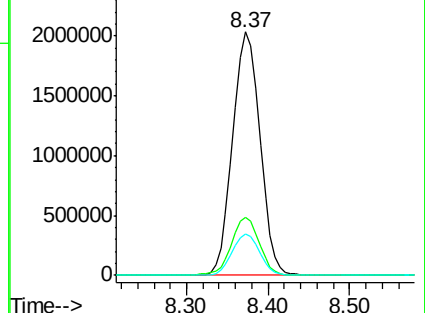
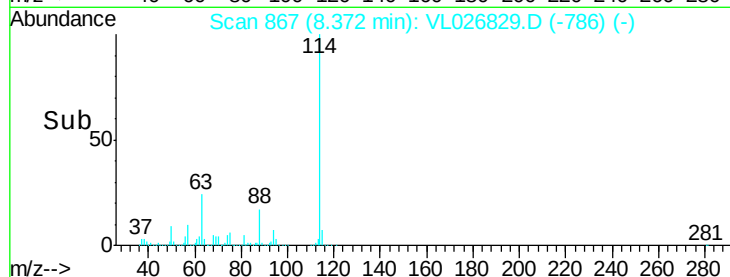
88 17.0 13.8 20.6



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: 15.47 ppbv

RT: 6.24 min Scan# 517

Delta R.T. -0.01 min

Lab File: VL026829.D

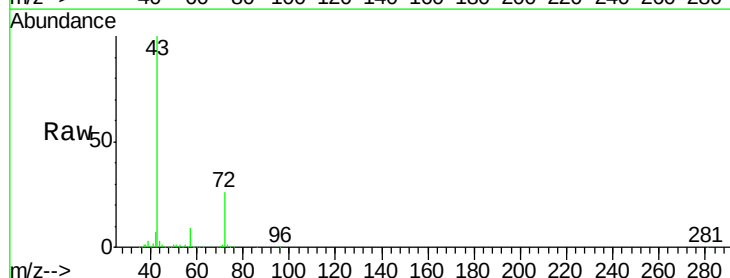
Acq: 9 Feb 2016 20:48

Tgt Ion: 43 Resp: 3397802

Ion Ratio Lower Upper

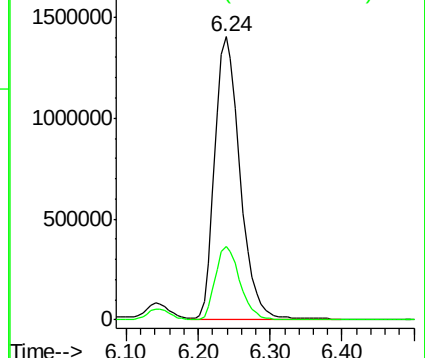
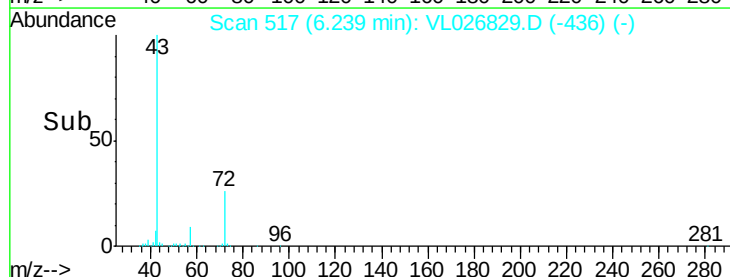
43 100

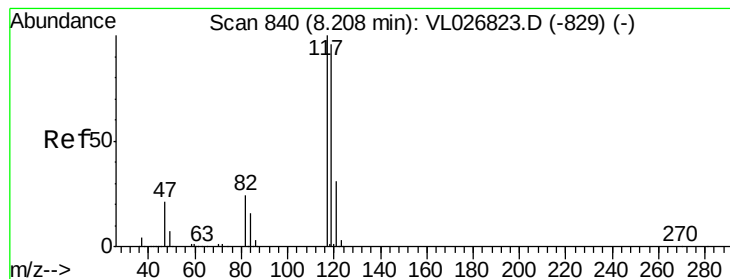
72 25.7 19.8 29.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 11.43 ppbv

RT: 8.21 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

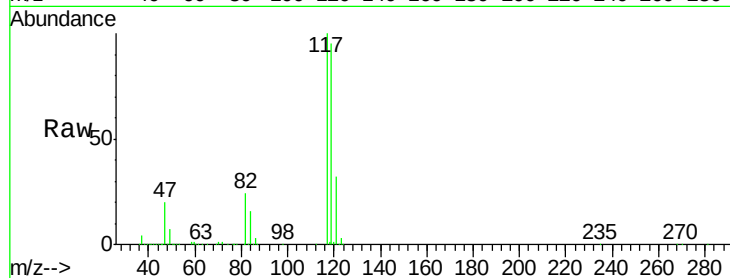
Tgt Ion:117 Resp: 5358484

Ion Ratio Lower Upper

117 100

119 95.0 76.6 115.0

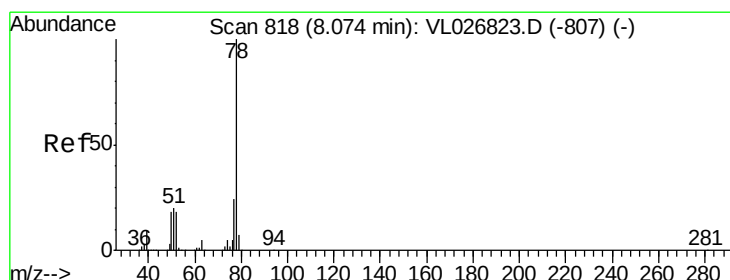
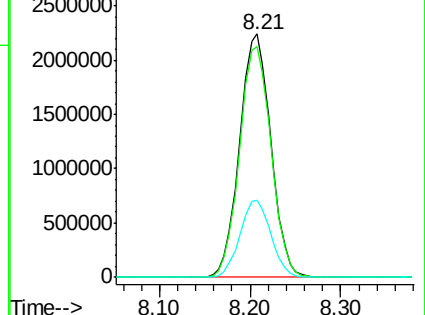
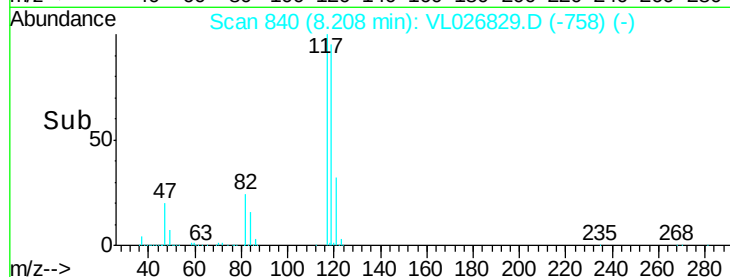
121 31.8 25.0 37.4



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: 14.98 ppbv

RT: 8.07 min Scan# 817

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

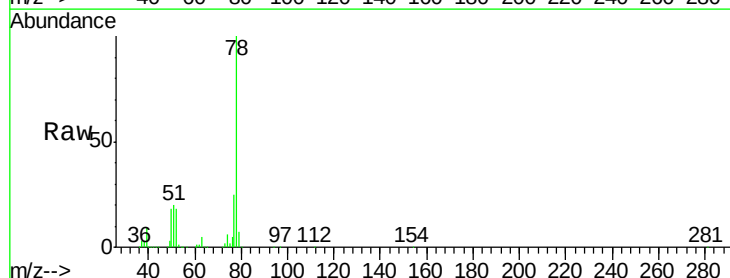
Tgt Ion: 78 Resp: 5930022

Ion Ratio Lower Upper

78 100

77 24.6 19.0 28.6

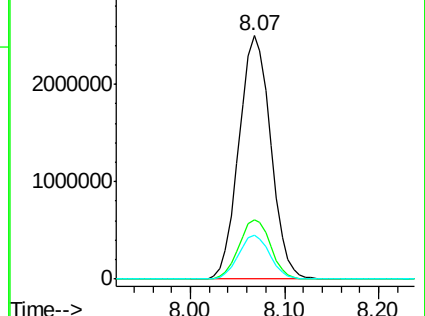
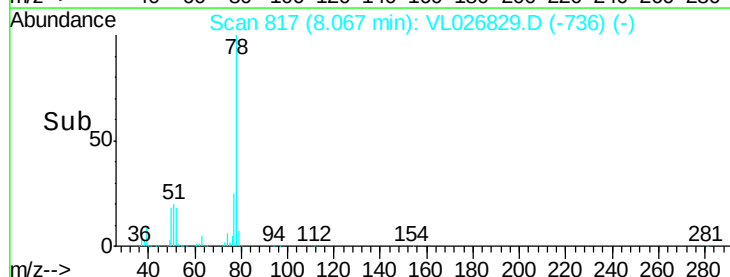
50 18.2 14.2 21.4

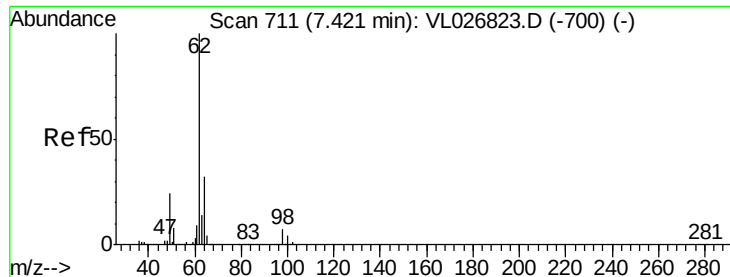


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.26 ppbv

RT: 7.42 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

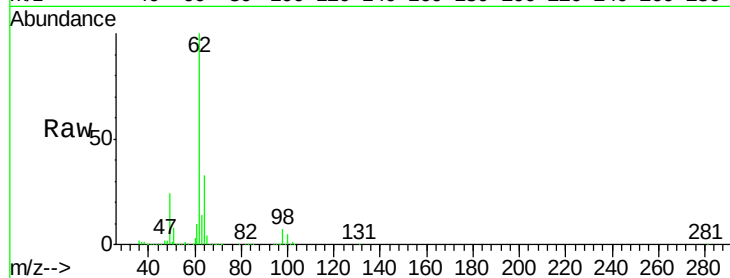
VSTDIC015

Tgt Ion: 62 Resp: 3491596

Ion Ratio Lower Upper

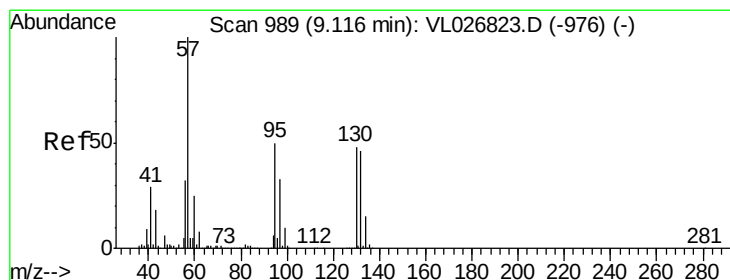
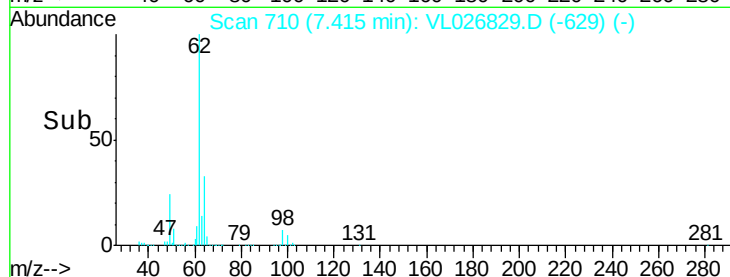
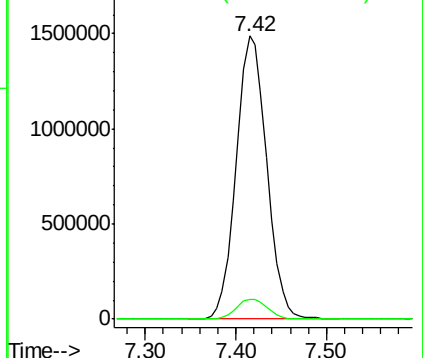
62 100

98 7.3 5.4 8.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 16.78 ppbv

RT: 9.11 min Scan# 988

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Tgt Ion: 130 Resp: 3138166

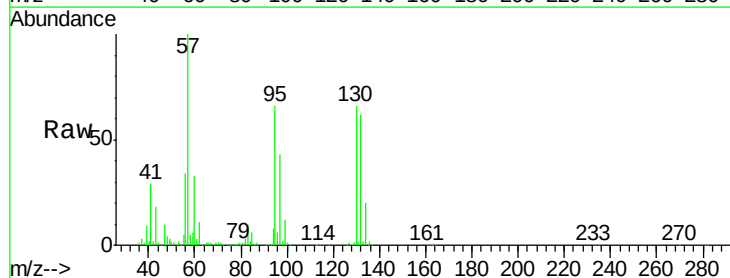
Ion Ratio Lower Upper

130 100

95 100.0 83.0 124.6

132 94.0 76.0 114.0

97 65.1 54.0 81.0

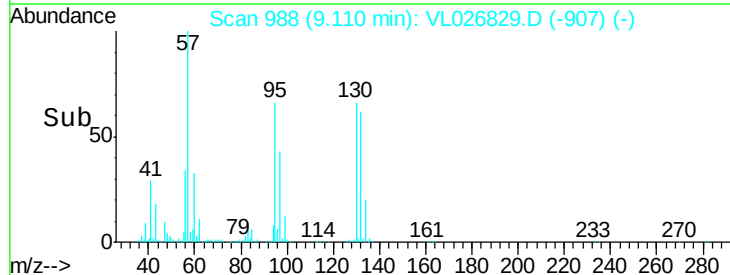
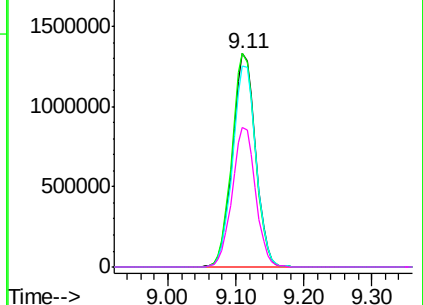


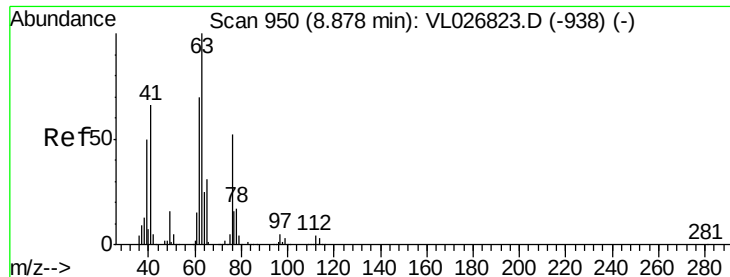
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 16.33 ppbv

RT: 8.87 min Scan# 949

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

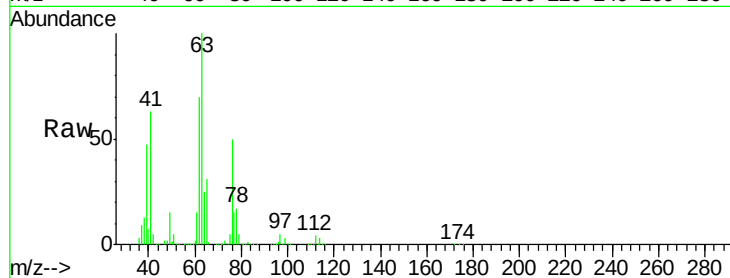
Tgt Ion: 63 Resp: 2172716

Ion Ratio Lower Upper

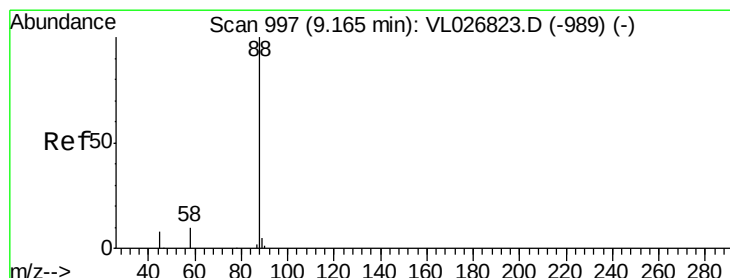
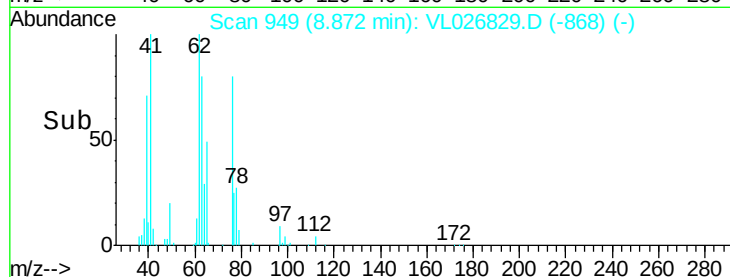
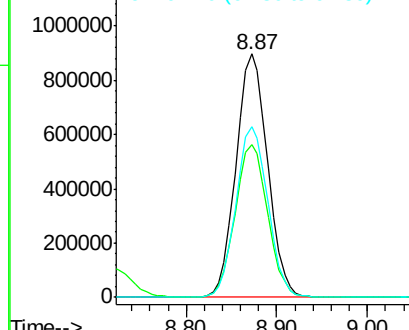
63 100

41 62.4 53.2 79.8

62 70.3 56.0 84.0



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: 9.77 ppbv

RT: 9.16 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Tgt Ion: 88 Resp: 318280

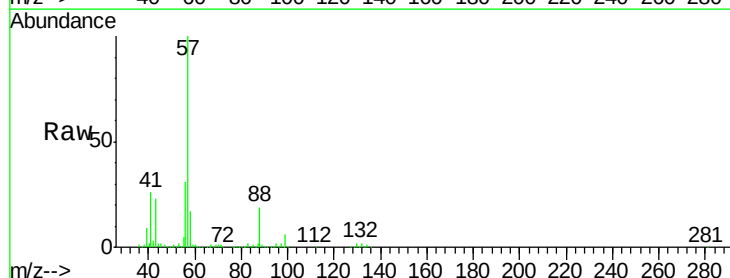
Ion Ratio Lower Upper

88 100

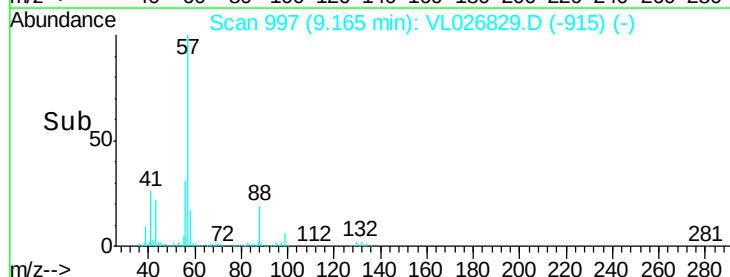
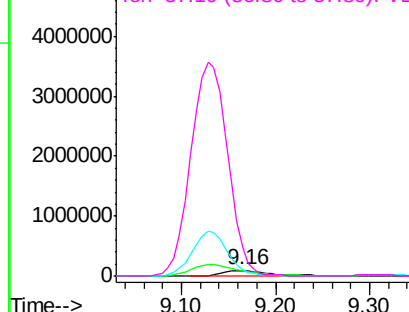
58 221.9 135.6 203.4#

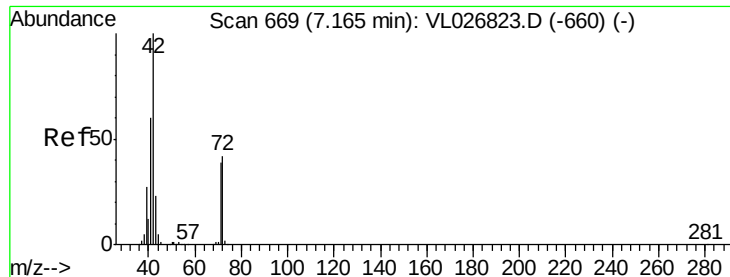
43 617.4 332.3 498.5#

57 3056.9 1660.5 2490.7#



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: 19.27 ppbv

RT: 7.16 min Scan# 668

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

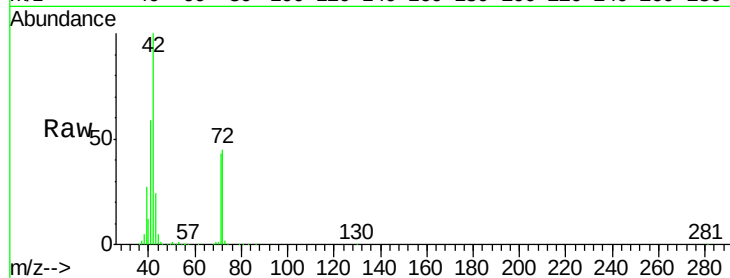
Tgt Ion: 42 Resp: 1912079

Ion Ratio Lower Upper

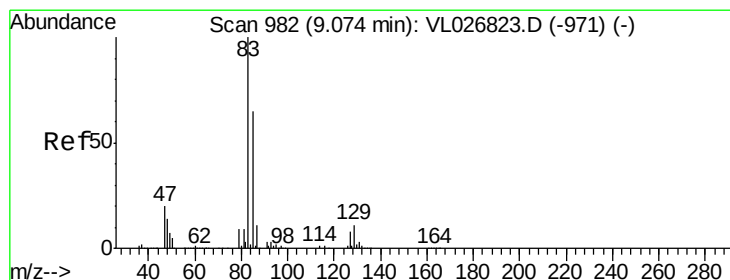
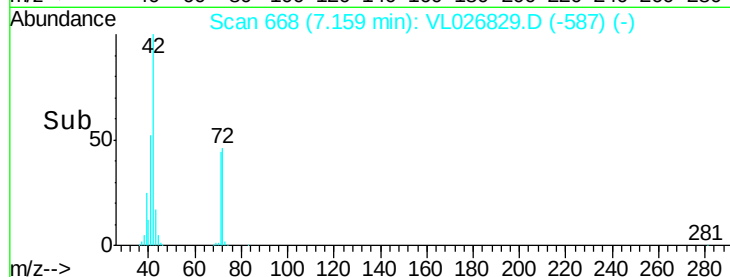
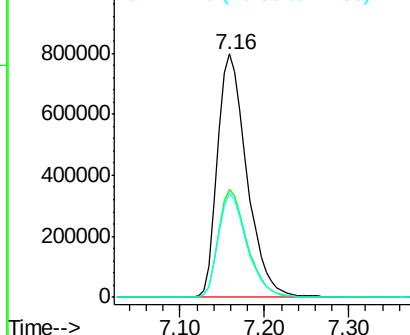
42 100

72 43.7 33.4 50.0

71 41.7 32.1 48.1



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 11.65 ppbv

RT: 9.07 min Scan# 982

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

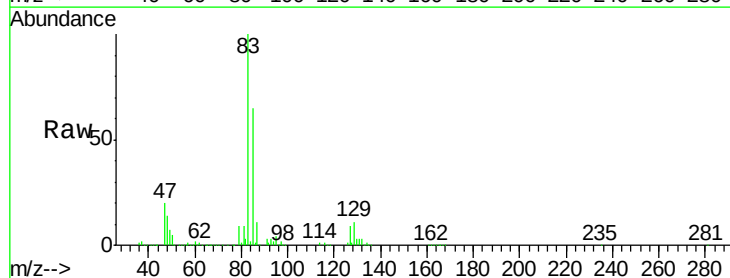
Tgt Ion: 83 Resp: 5140616

Ion Ratio Lower Upper

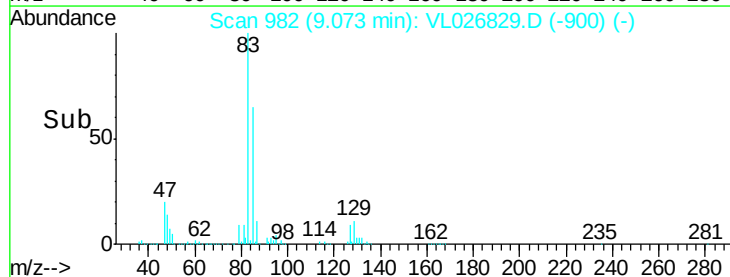
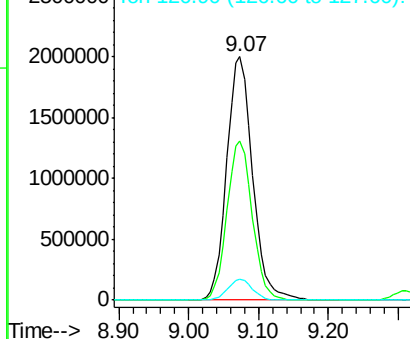
83 100

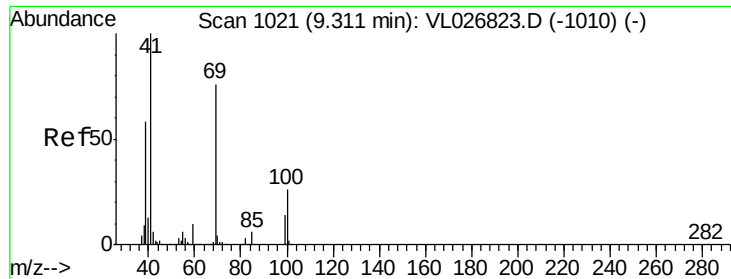
85 65.2 51.8 77.6

127 8.7 6.4 9.6



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

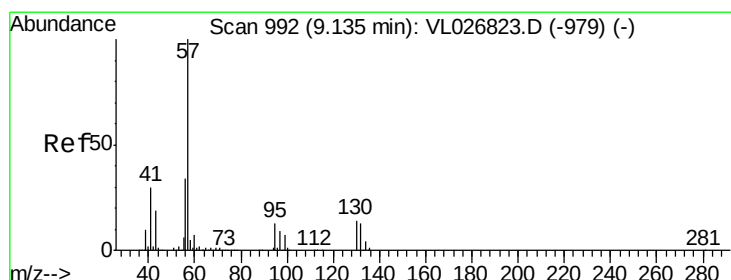
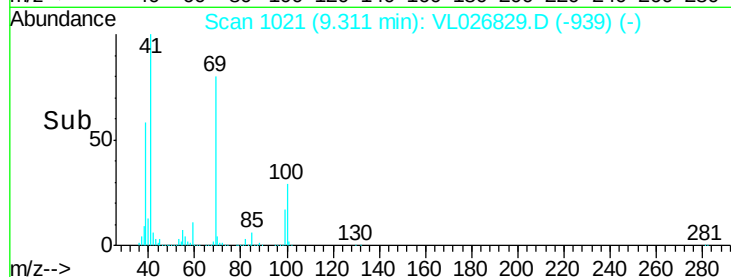
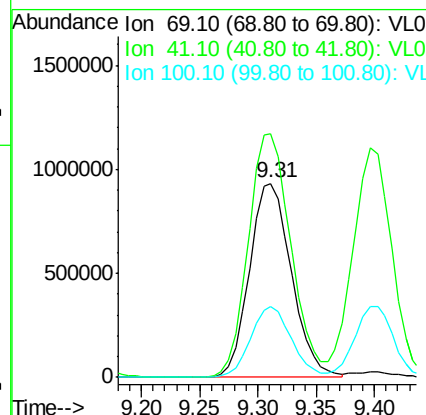
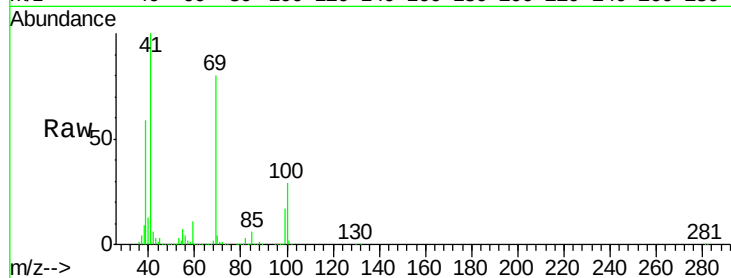




#43
Methyl Methacrylate
Concen: 15.42 ppbv
RT: 9.31 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

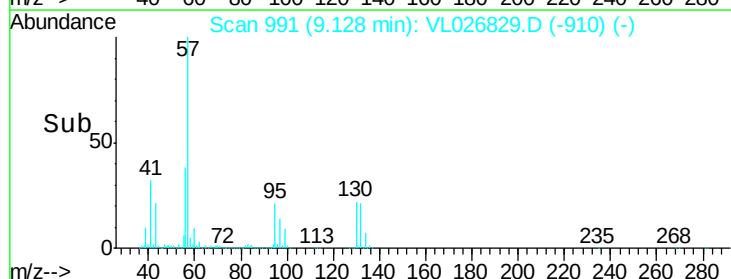
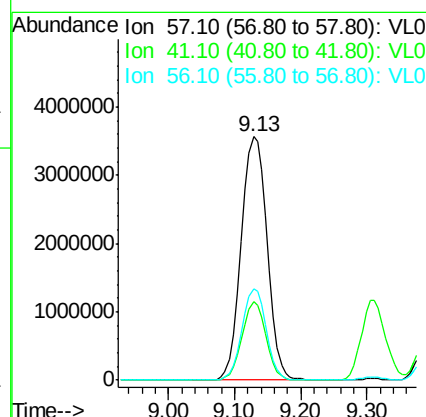
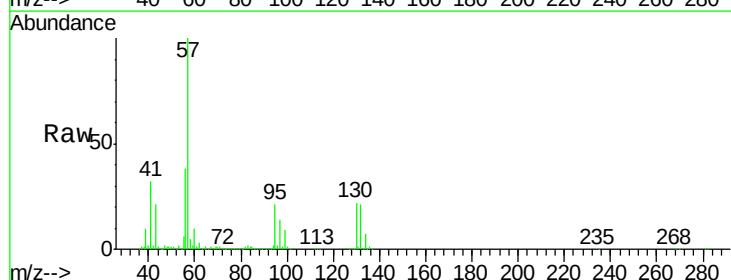
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

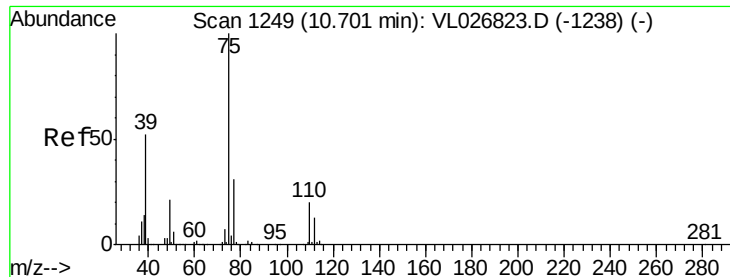
Tgt Ion: 69 Resp: 2348967
Ion Ratio Lower Upper
69 100
41 126.3 106.5 159.7
100 35.2 27.2 40.8



#44
2,2,4-Trimethylpentane
Concen: 15.46 ppbv
RT: 9.13 min Scan# 991
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 57 Resp: 9729055
Ion Ratio Lower Upper
57 100
41 29.8 23.2 34.8
56 35.0 26.2 39.4





#45

t-1,3-Dichloropropene

Concen: 12.94 ppbv

RT: 10.70 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

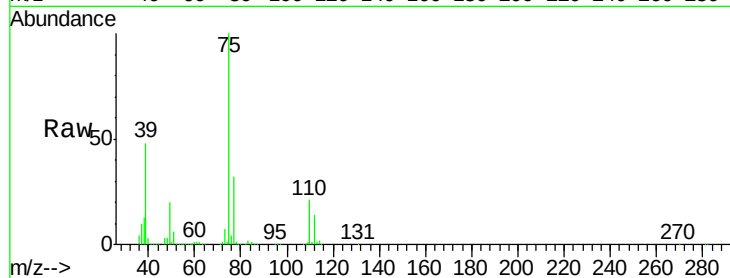
VSTDIC015

Tgt Ion: 75 Resp: 3411987

Ion Ratio Lower Upper

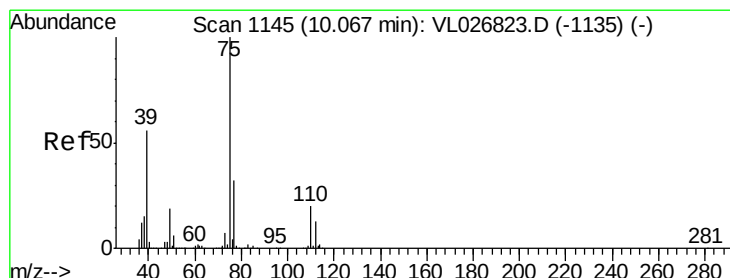
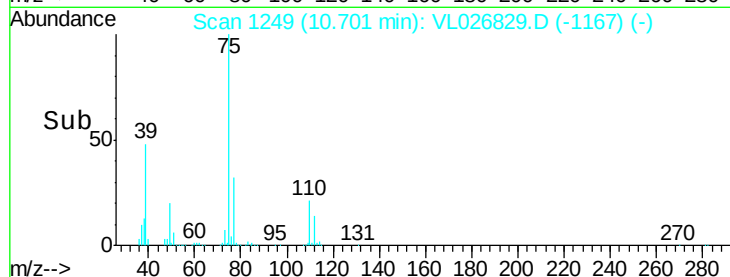
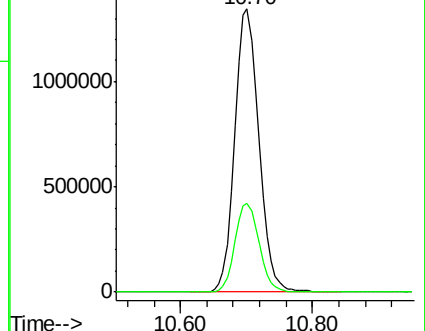
75 100

77 31.6 25.0 37.6



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 14.28 ppbv

RT: 10.07 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

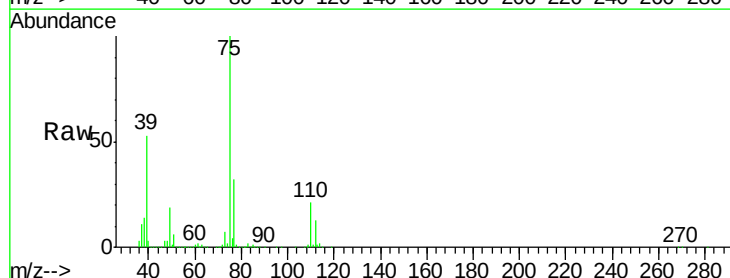
Tgt Ion: 75 Resp: 4030792

Ion Ratio Lower Upper

75 100

39 53.0 45.0 67.6

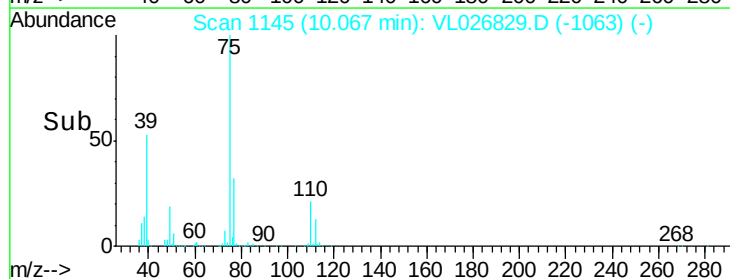
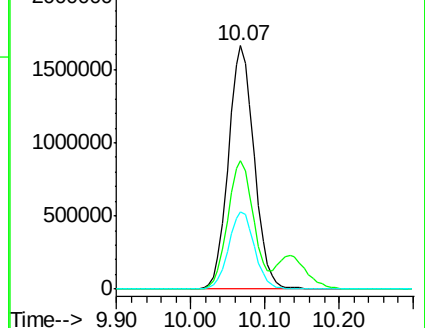
77 31.9 25.2 37.8

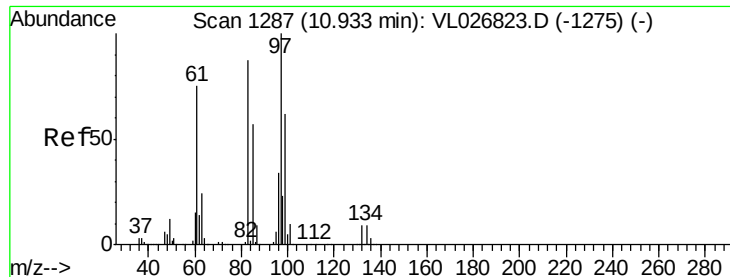


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 12.34 ppbv

RT: 10.93 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 97 Resp: 2596670

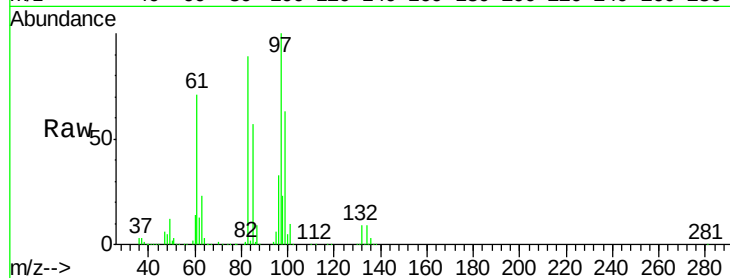
Ion Ratio Lower Upper

97 100

83 88.5 69.7 104.5

85 56.8 45.3 67.9

99 62.9 49.9 74.9

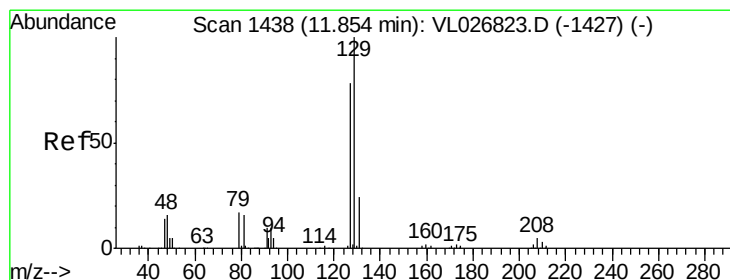
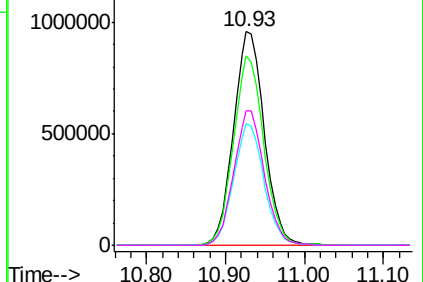
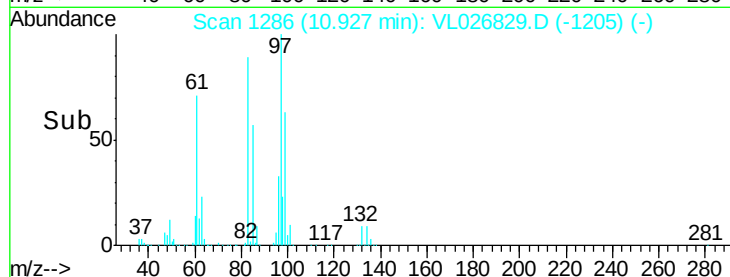


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 11.68 ppbv

RT: 11.85 min Scan# 1438

Delta R.T. -0.00 min

Lab File: VL026829.D

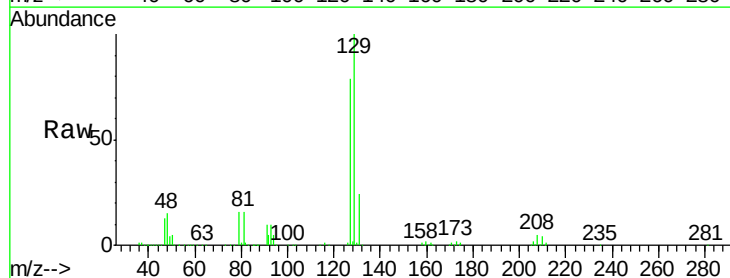
Acq: 9 Feb 2016 20:48

Tgt Ion: 129 Resp: 4629839

Ion Ratio Lower Upper

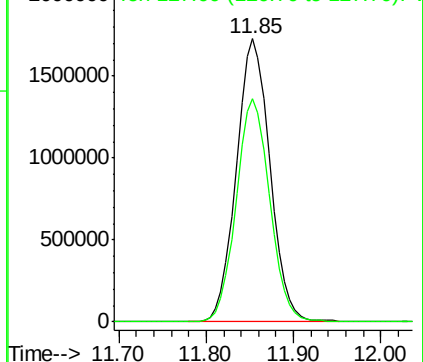
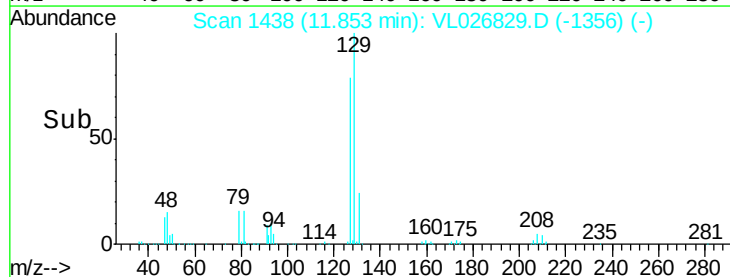
129 100

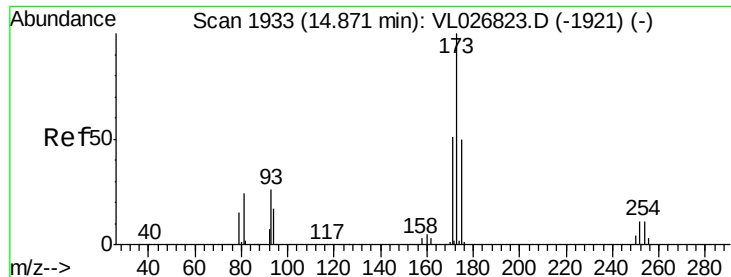
127 79.2 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.17 ppbv

RT: 14.87 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

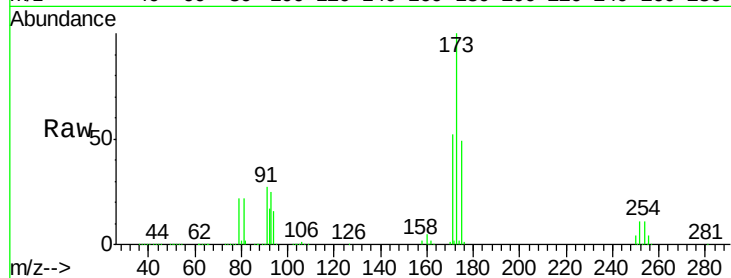
Tgt Ion:173 Resp: 3800676

Ion Ratio Lower Upper

173 100

175 49.3 39.2 58.8

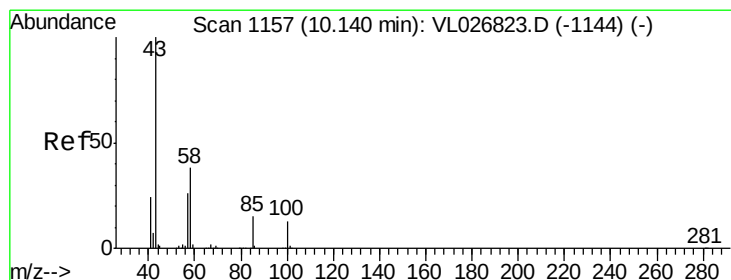
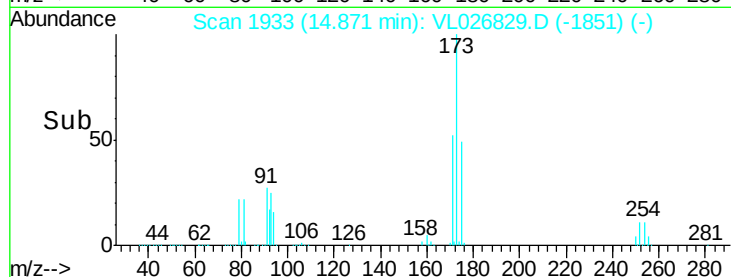
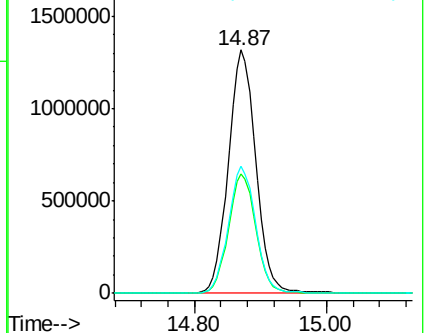
171 52.1 41.4 62.0



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: 15.15 ppbv

RT: 10.13 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VL026829.D

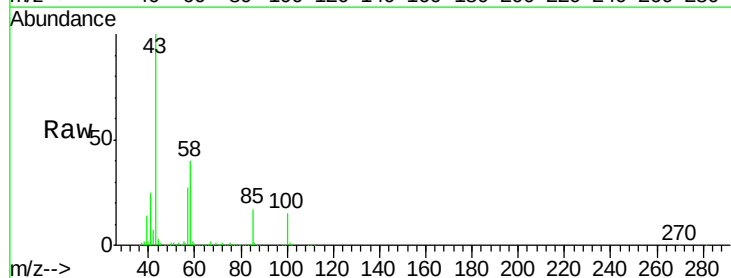
Acq: 9 Feb 2016 20:48

Tgt Ion: 43 Resp: 4627742

Ion Ratio Lower Upper

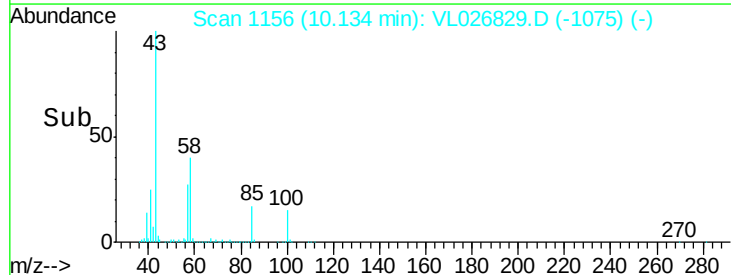
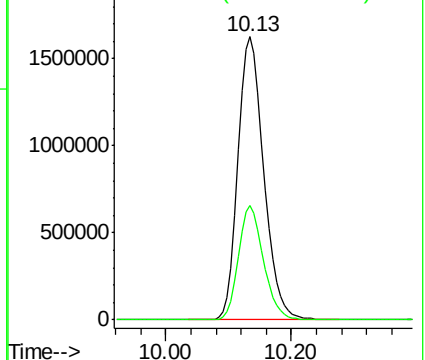
43 100

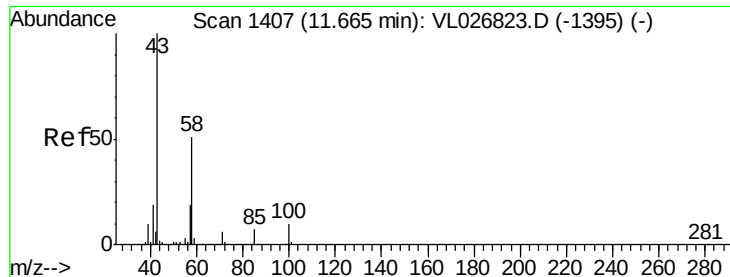
58 39.2 30.3 45.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 14.45 ppbv

RT: 11.66 min Scan# 1407

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

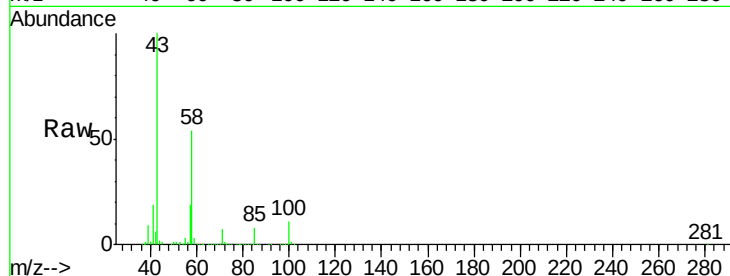
Tgt Ion: 43 Resp: 4246997

Ion Ratio Lower Upper

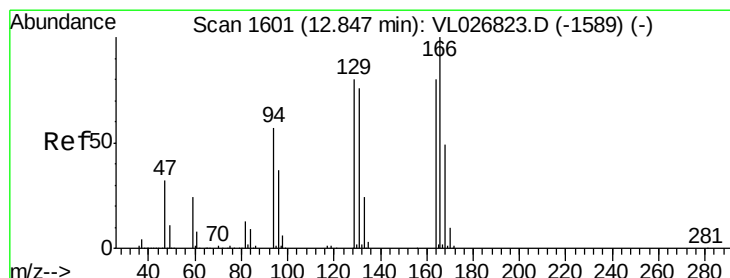
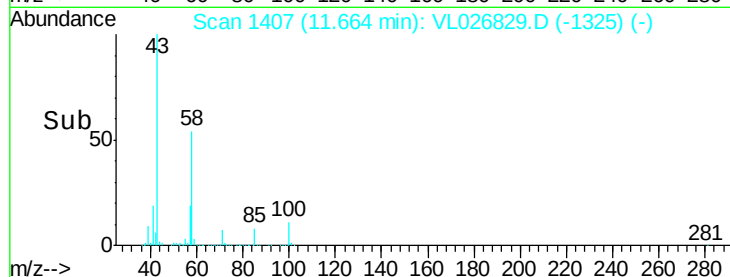
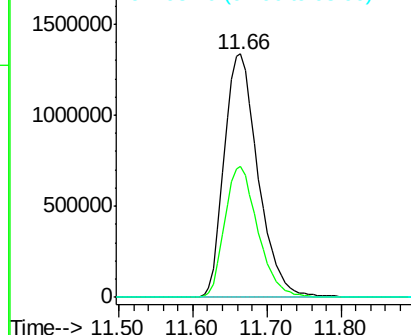
43 100

58 52.9 40.4 60.6

98 0.2 0.2 0.4#



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: 12.66 ppbv

RT: 12.84 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Tgt Ion: 164 Resp: 2814430

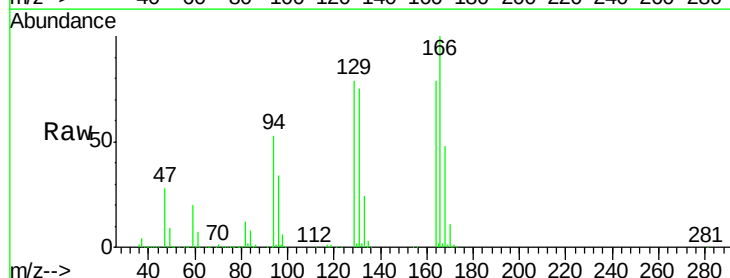
Ion Ratio Lower Upper

164 100

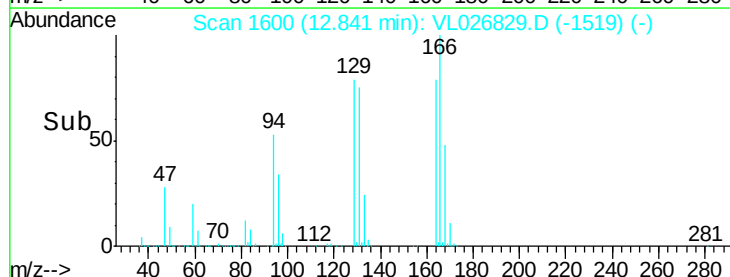
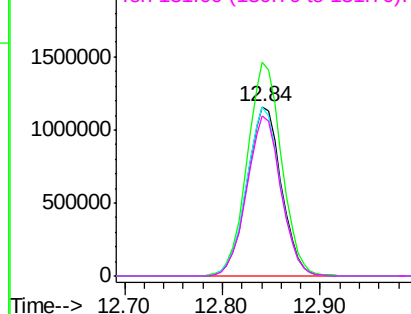
166 126.4 100.3 150.5

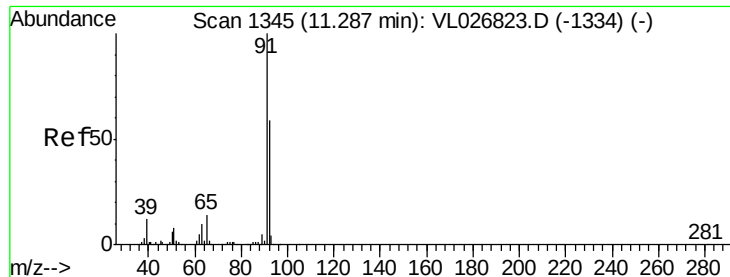
129 99.7 80.0 120.0

131 94.4 76.7 115.1



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: 12.79 ppbv

RT: 11.29 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

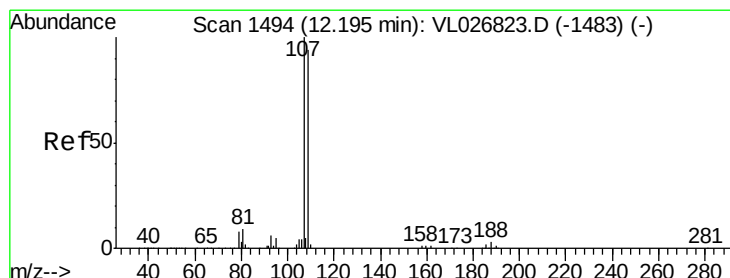
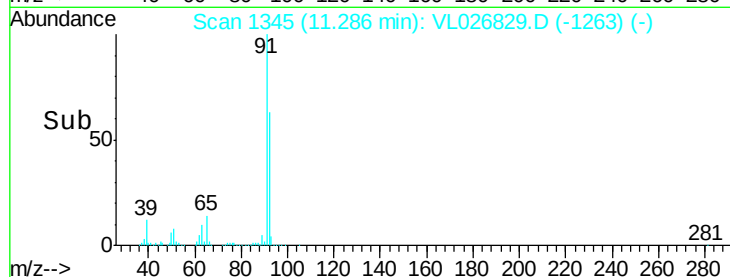
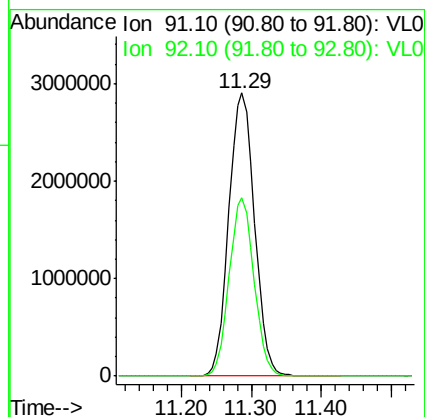
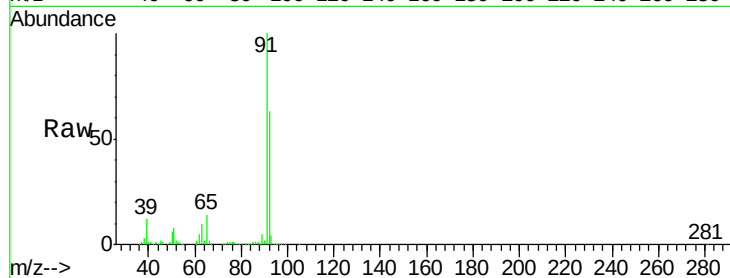
VSTDIC015

Tgt Ion: 91 Resp: 7435648

Ion Ratio Lower Upper

91 100

92 60.9 47.3 70.9



#54

1,2-Dibromoethane

Concen: 11.28 ppbv

RT: 12.19 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL026829.D

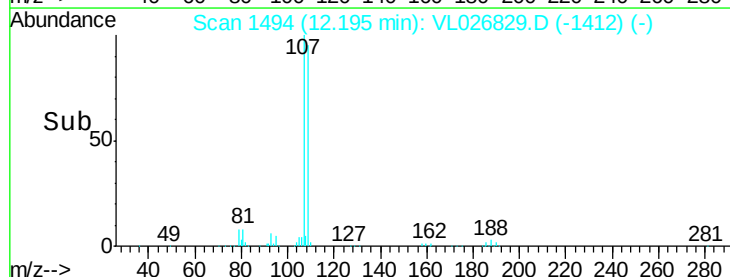
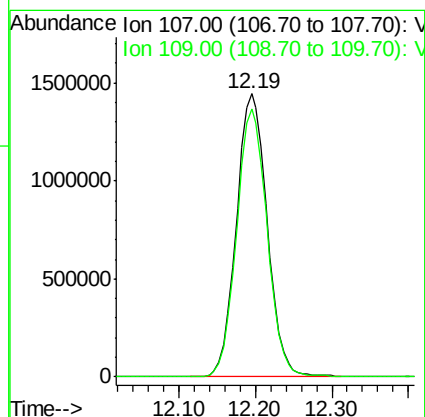
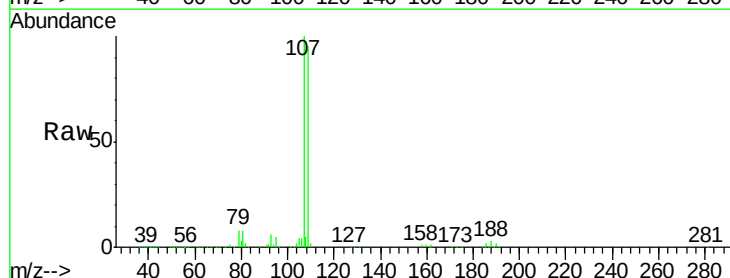
Acq: 9 Feb 2016 20:48

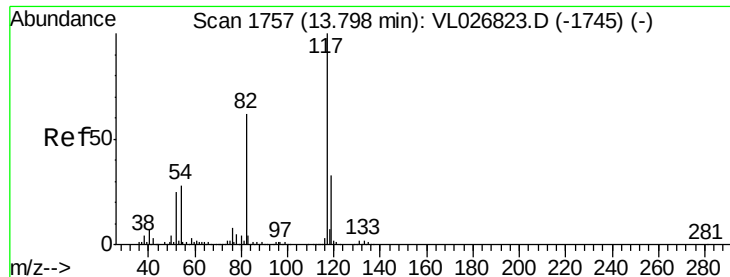
Tgt Ion: 107 Resp: 4019754

Ion Ratio Lower Upper

107 100

109 94.9 75.0 112.4

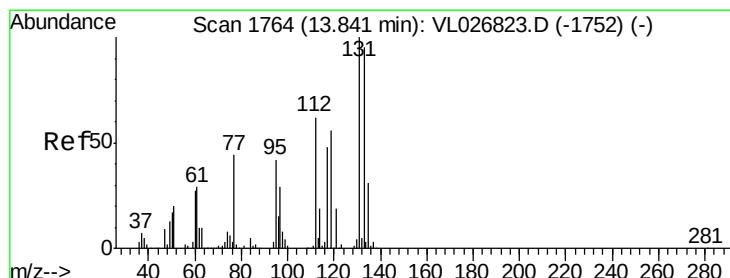
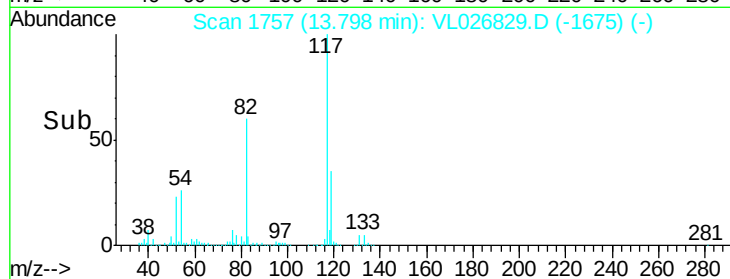
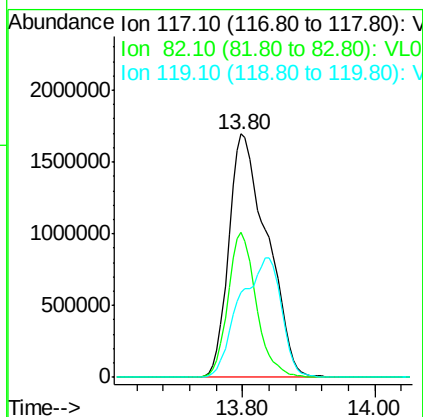
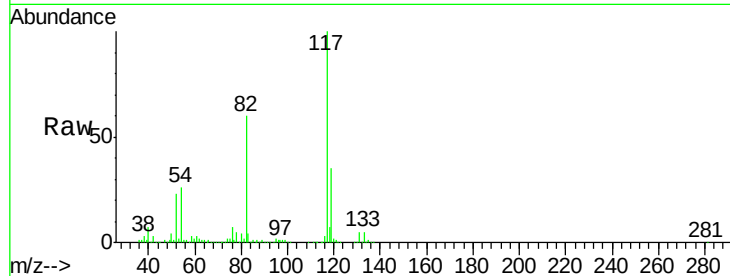




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 13.80 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

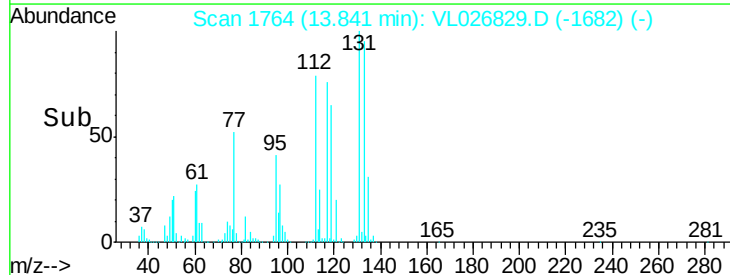
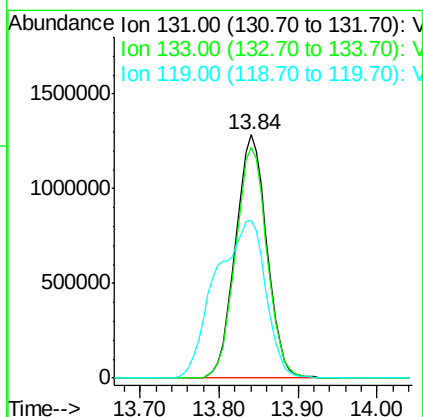
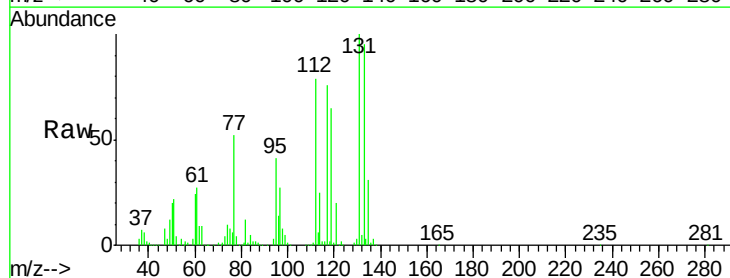
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

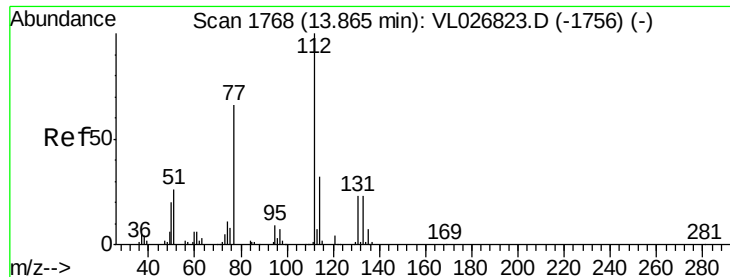
Tgt Ion:117 Resp: 6818667
Ion Ratio Lower Upper
117 100
82 44.3 51.9 77.9#
119 53.9 48.5 72.7



#56
1,1,1,2-Tetrachloroethane
Concen: 9.88 ppbv
RT: 13.84 min Scan# 1764
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion:131 Resp: 3559766
Ion Ratio Lower Upper
131 100
133 95.4 76.4 114.6
119 103.2 99.8 149.8





#57

Chlorobenzene

Concen: 9.41 ppbv

RT: 13.87 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

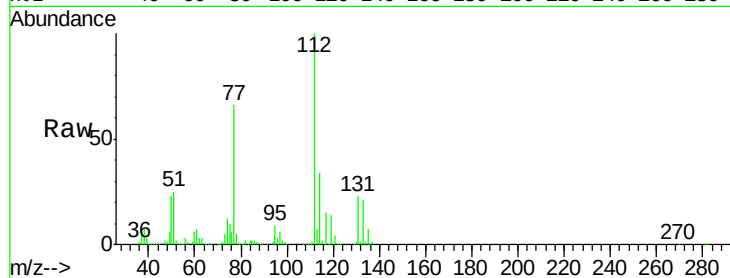
Tgt Ion:112 Resp: 6490497

Ion Ratio Lower Upper

112 100

77 65.8 53.3 79.9

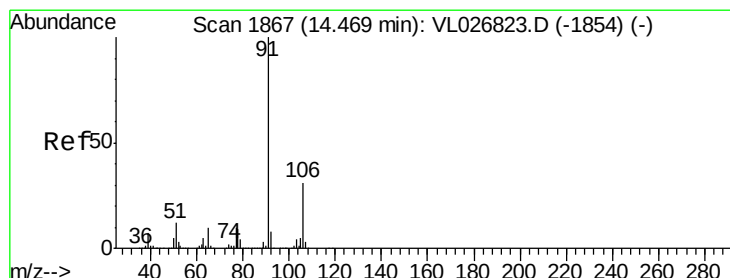
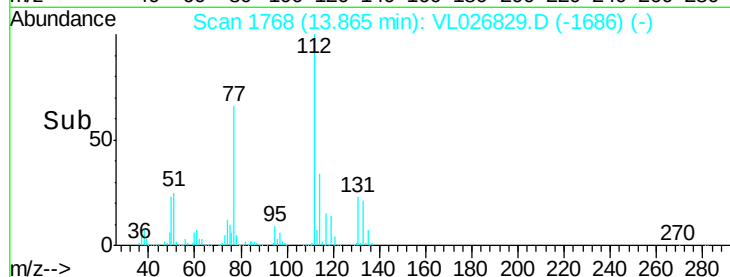
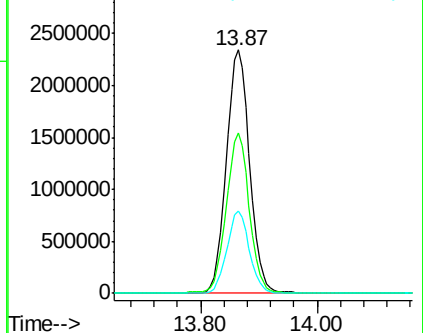
114 33.8 28.9 35.3



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: 8.69 ppbv

RT: 14.46 min Scan# 1866

Delta R.T. -0.01 min

Lab File: VL026829.D

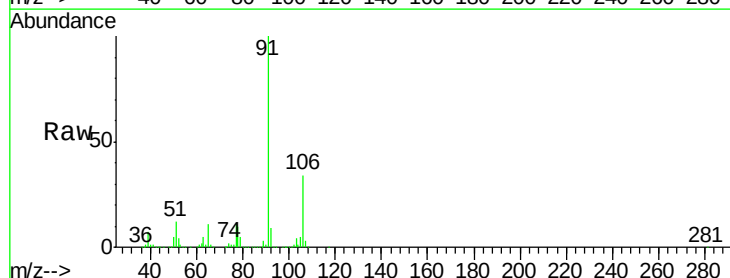
Acq: 9 Feb 2016 20:48

Tgt Ion: 91 Resp: 9702756

Ion Ratio Lower Upper

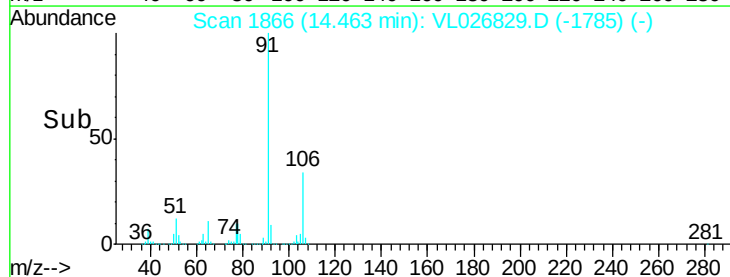
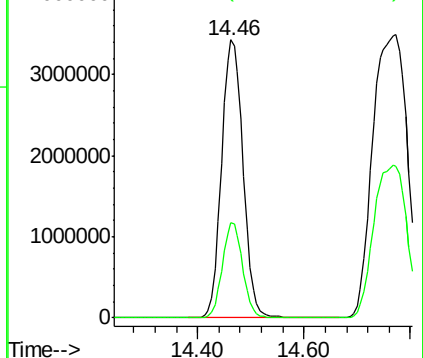
91 100

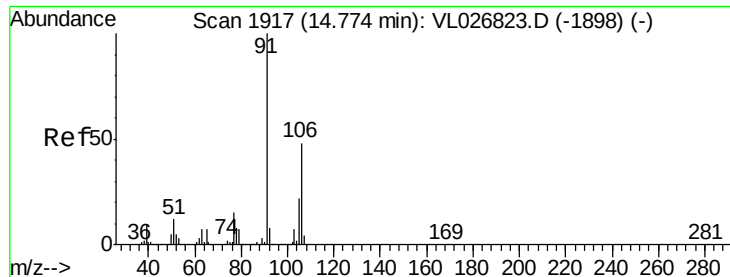
106 34.1 24.9 37.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

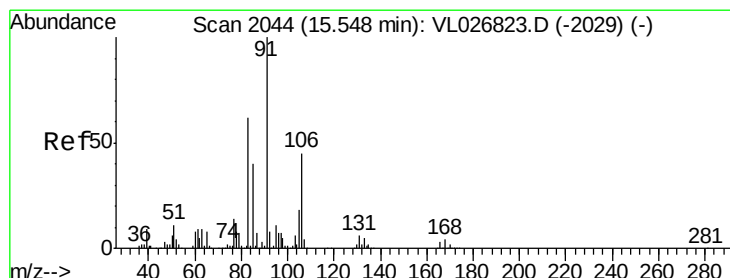
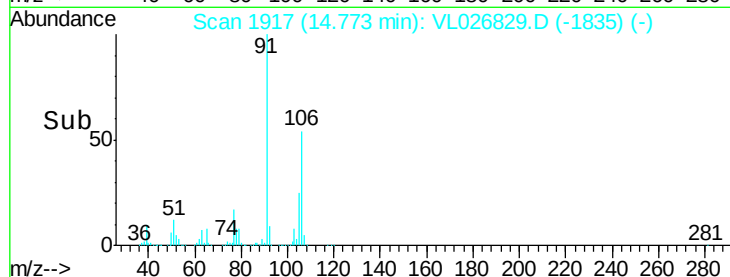
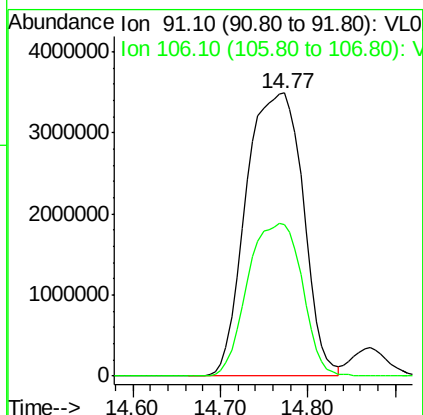
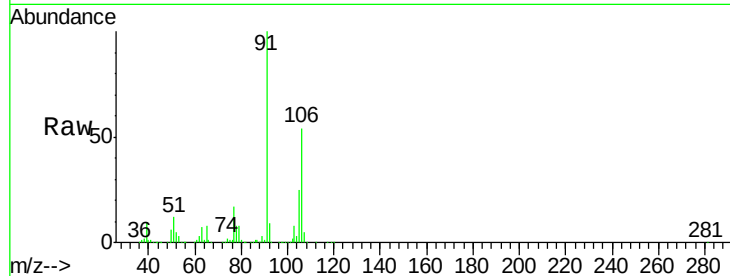




#59
m/p-Xylene
Concen: 16.14 ppbv
RT: 14.77 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

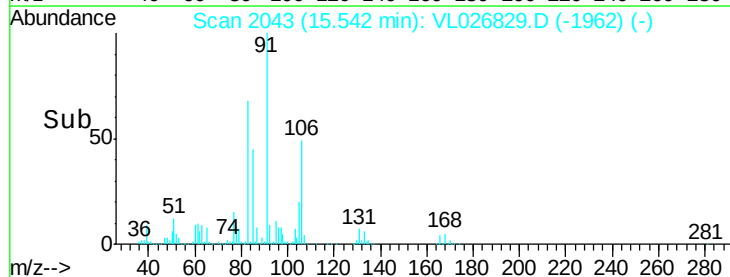
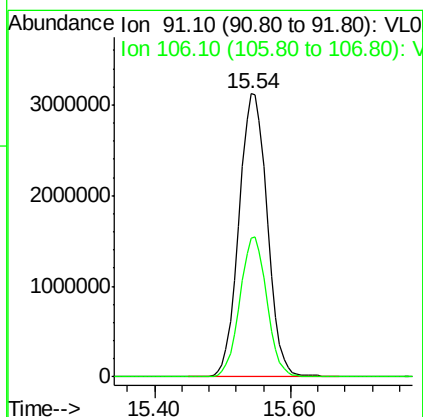
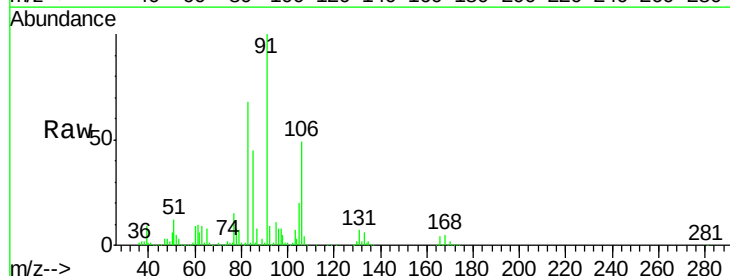
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

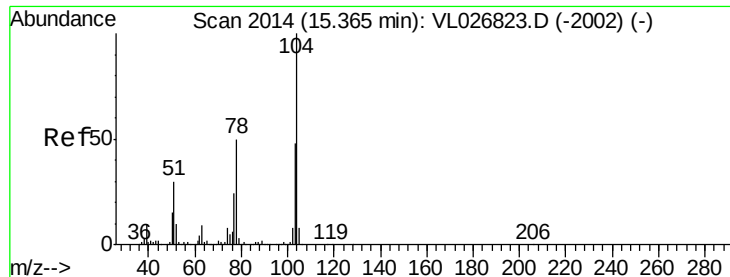
Tgt Ion: 91 Resp:15792157
Ion Ratio Lower Upper
91 100
106 51.9 38.2 57.2



#60
o-Xylene
Concen: 8.36 ppbv
RT: 15.54 min Scan# 2043
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 91 Resp: 9044195
Ion Ratio Lower Upper
91 100
106 47.2 22.3 66.8

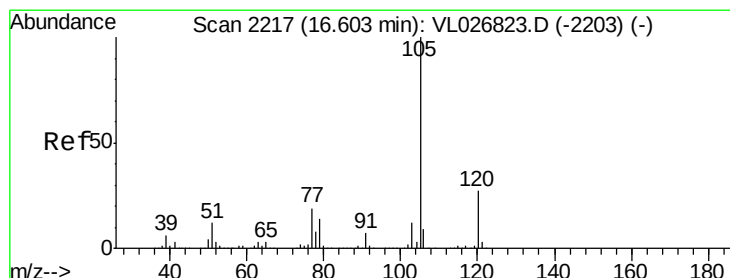
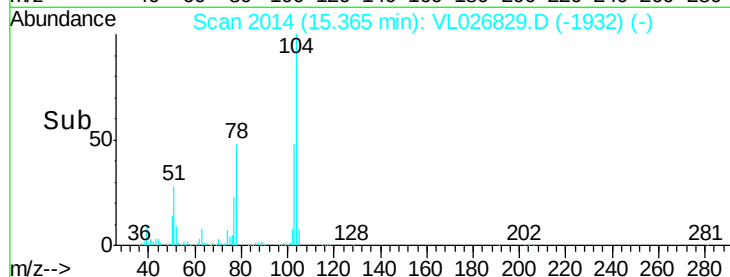
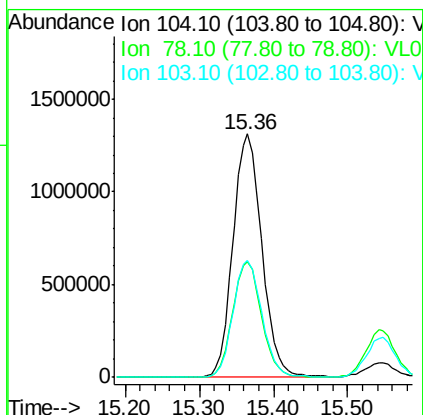
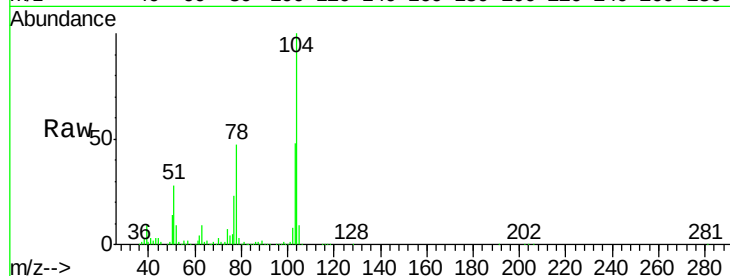




#61
 Styrene
 Concen: 9.22 ppbv
 RT: 15.36 min Scan# 2014
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

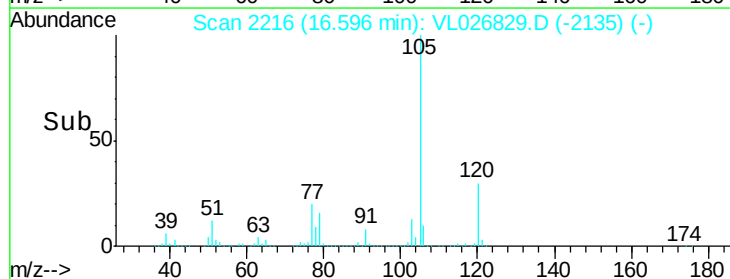
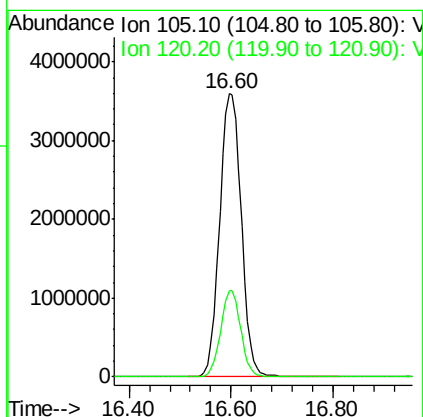
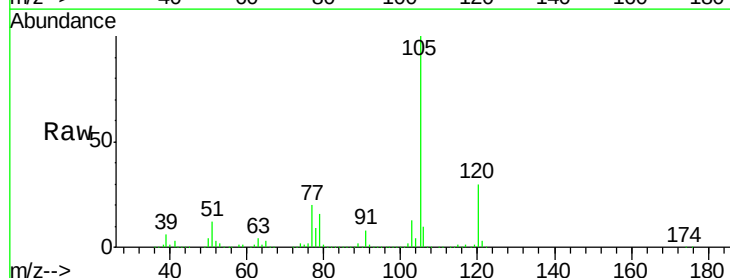
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

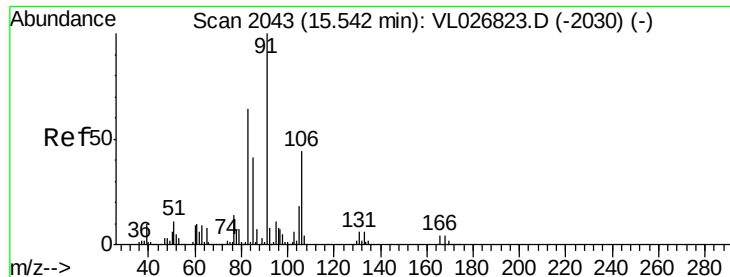
Tgt Ion:104 Resp: 3584516
 Ion Ratio Lower Upper
 104 100
 78 47.5 39.8 59.6
 103 48.1 38.2 57.4



#62
 Isopropylbenzene
 Concen: 7.50 ppbv
 RT: 16.60 min Scan# 2216
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion:105 Resp:10575866
 Ion Ratio Lower Upper
 105 100
 120 28.3 21.0 31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 8.78 ppbv

RT: 15.54 min Scan# 2043

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

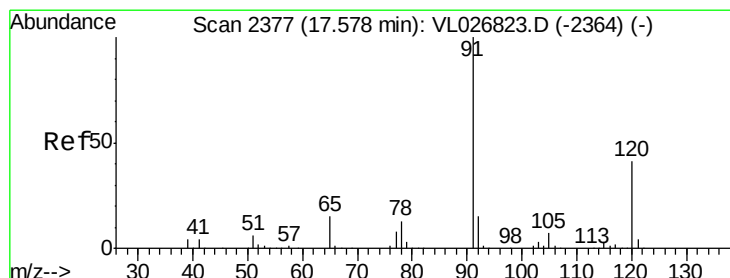
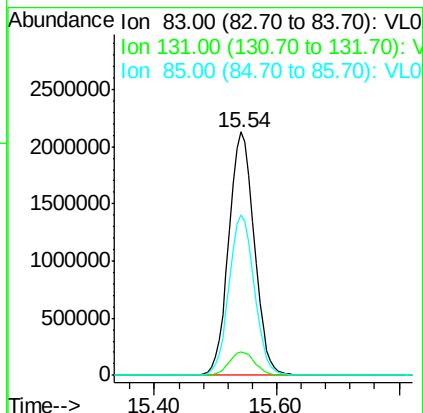
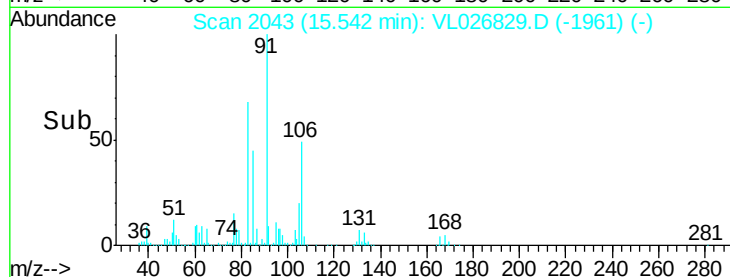
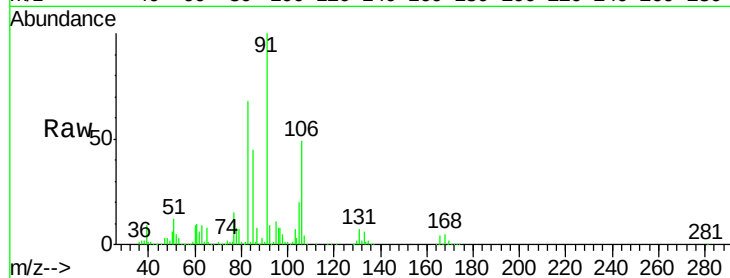
Tgt Ion: 83 Resp: 6130580

Ion Ratio Lower Upper

83 100

131 9.7 4.7 14.1

85 65.6 32.3 96.9



#64

n-propylbenzene

Concen: 7.50 ppbv

RT: 17.58 min Scan# 2377

Delta R.T. -0.00 min

Lab File: VL026829.D

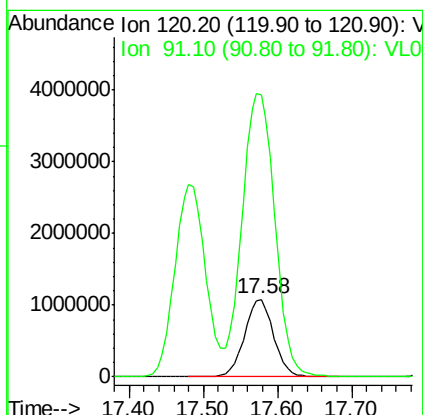
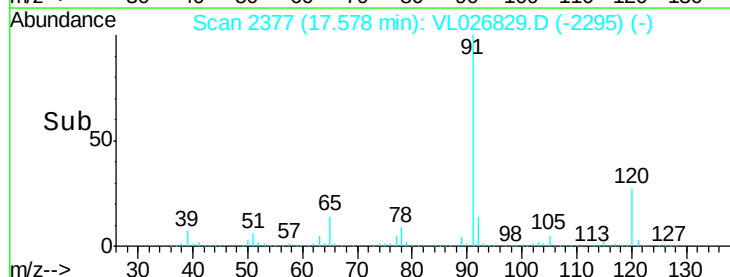
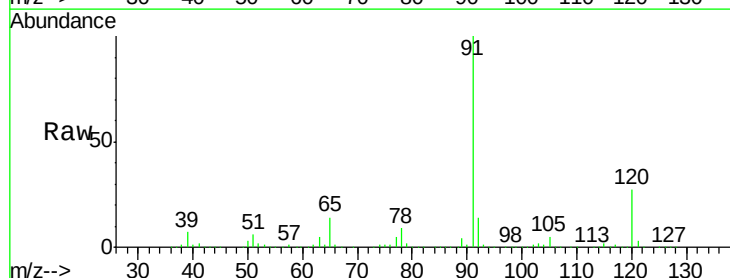
Acq: 9 Feb 2016 20:48

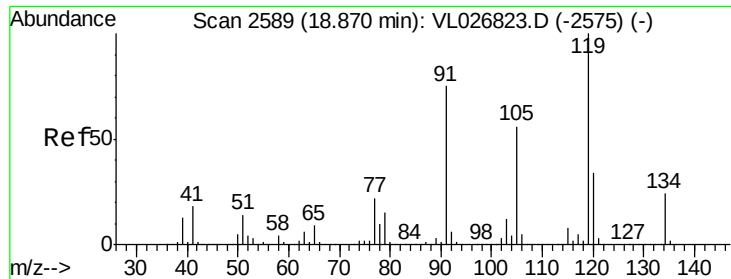
Tgt Ion: 120 Resp: 2965041

Ion Ratio Lower Upper

120 100

91 418.6 363.0 544.6





#65

tert-Butylbenzene

Concen: 7.57 ppbv

RT: 18.87 min Scan# 2589

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

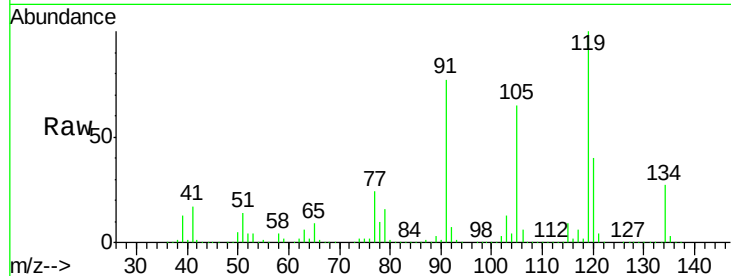
Tgt Ion:119 Resp:10791672

Ion Ratio Lower Upper

119 100

91 76.0 61.5 92.3

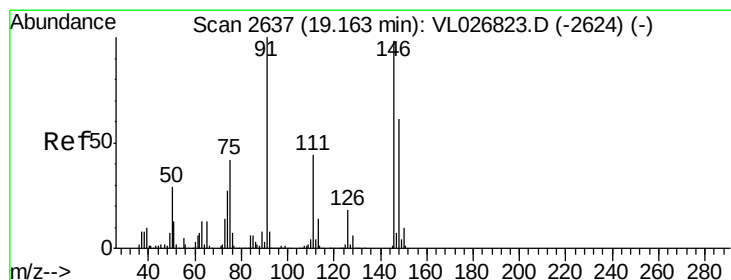
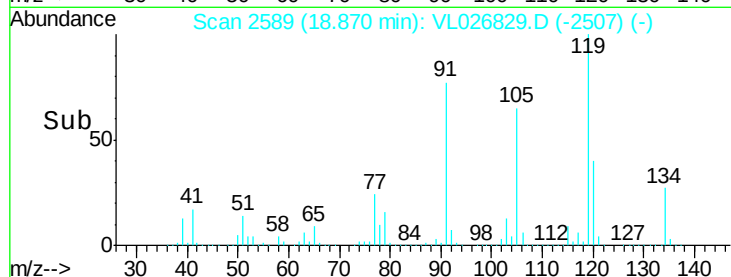
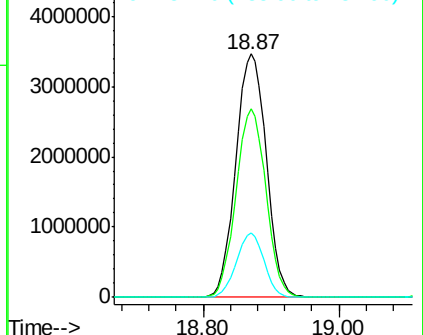
134 23.9 17.9 26.9



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 7.52 ppbv

RT: 19.16 min Scan# 2637

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

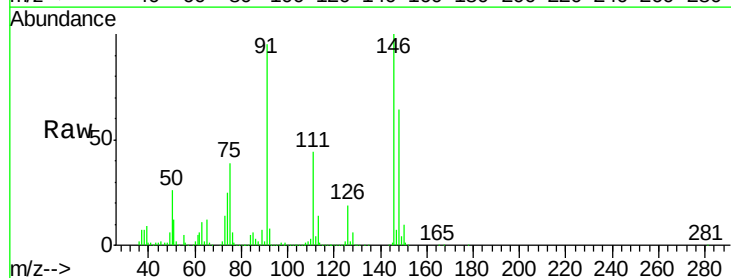
Tgt Ion: 91 Resp: 4040501

Ion Ratio Lower Upper

91 100

126 19.2 14.6 21.8

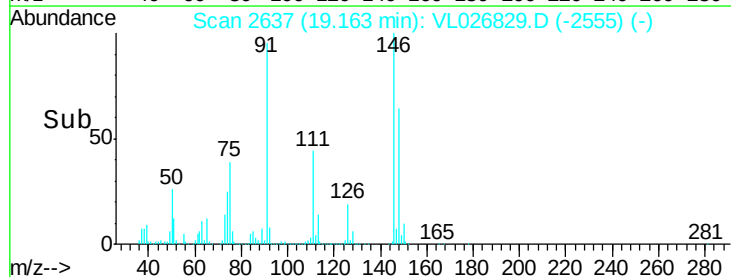
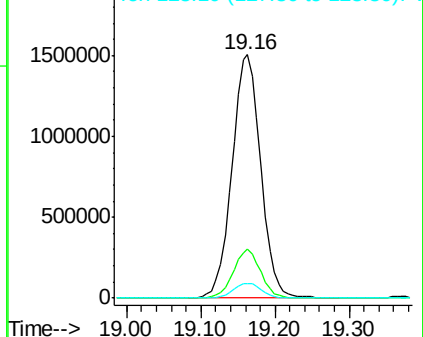
128 6.2 4.6 6.8

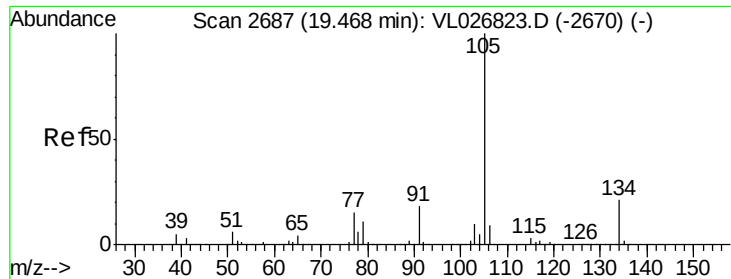


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 6.11 ppbv

RT: 19.47 min Scan# 2687

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

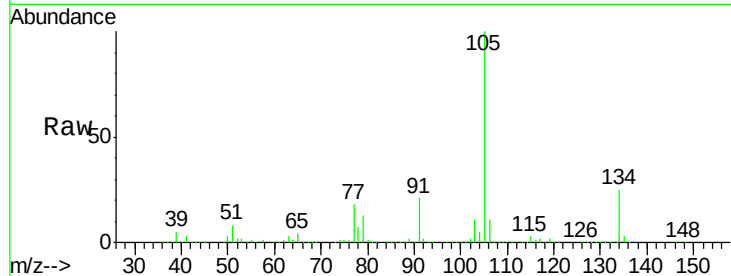
VSTDIC015

Tgt Ion:105 Resp:12732928

Ion Ratio Lower Upper

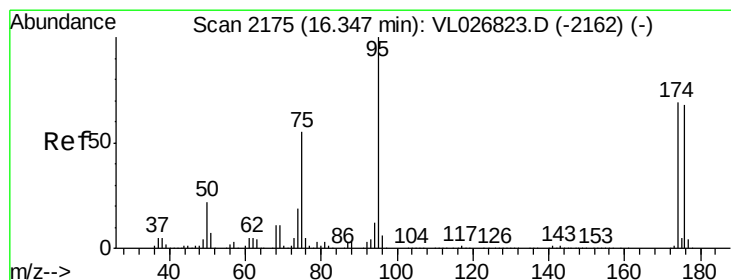
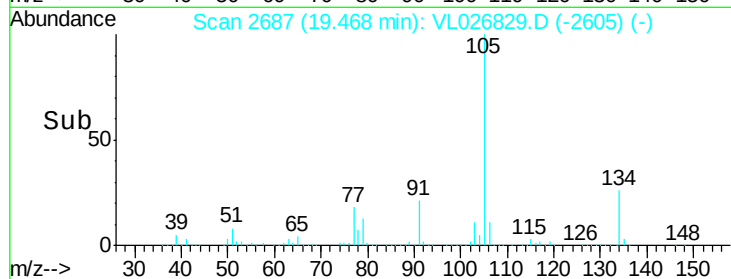
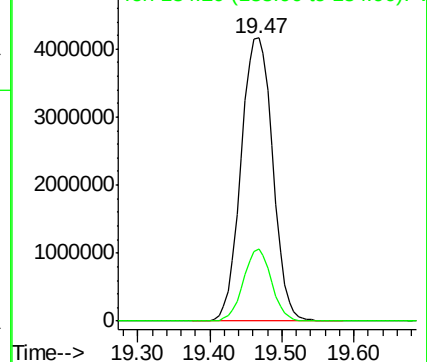
105 100

134 22.6 16.1 24.1



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: 5.72 ppbv

RT: 16.35 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

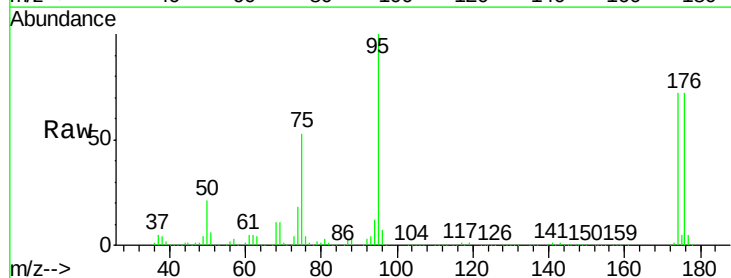
Tgt Ion: 95 Resp: 3308871

Ion Ratio Lower Upper

95 100

174 72.2 55.6 83.4

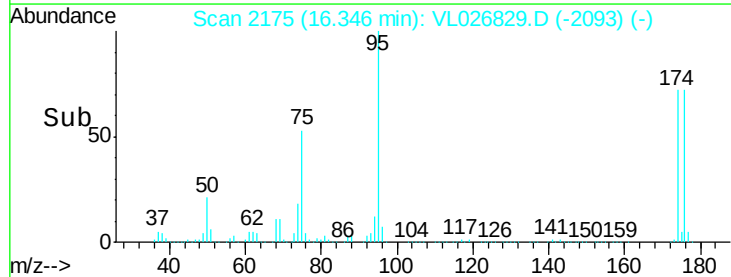
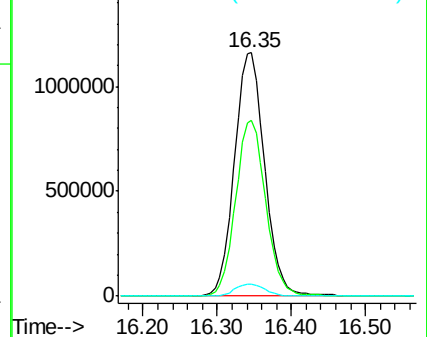
175 5.1 3.9 5.9

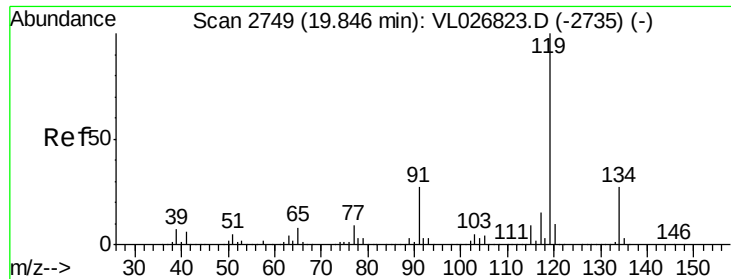


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

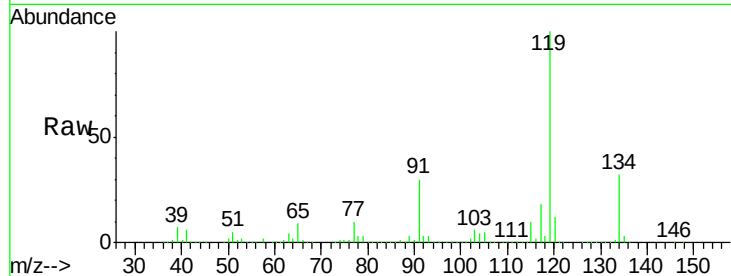




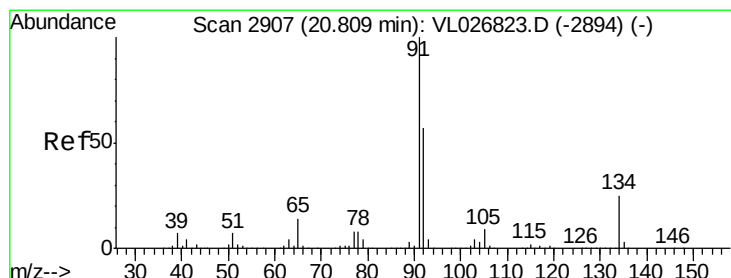
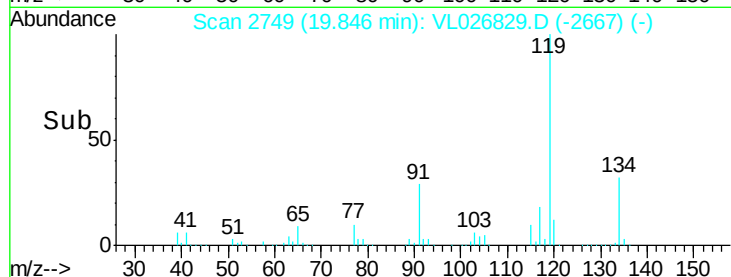
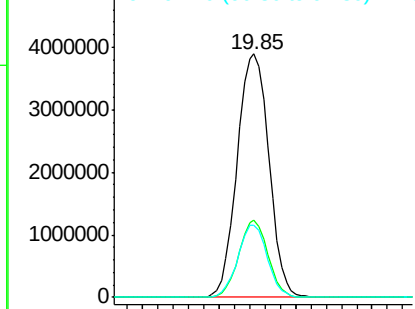
#69
 p-Isopropyltoluene
 Concen: 6.67 ppbv
 RT: 19.85 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:119 Resp:11236273
 Ion Ratio Lower Upper
 119 100
 134 29.0 21.3 31.9
 91 27.7 21.5 32.3

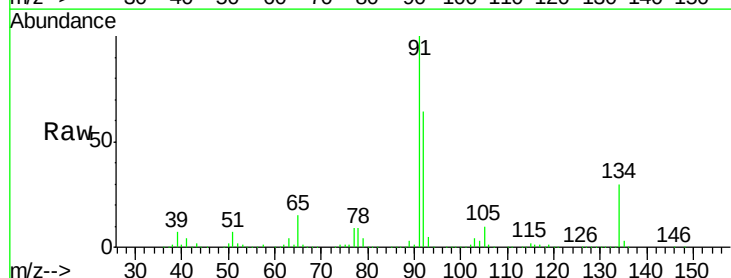


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

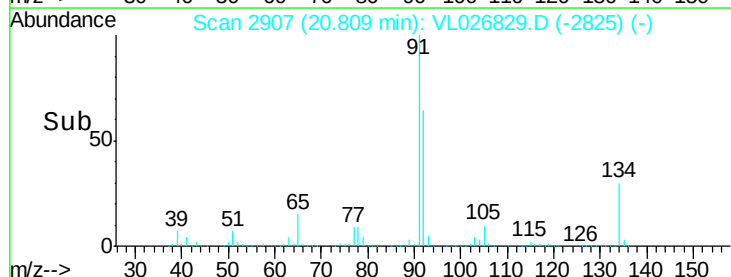
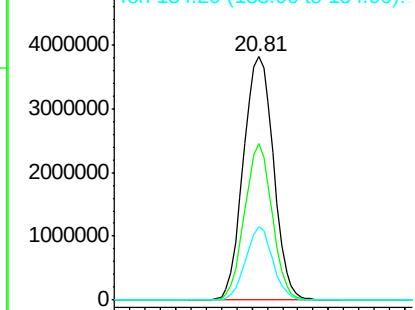


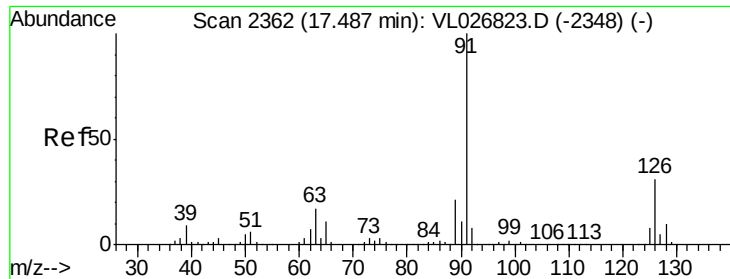
#70
 n-Butylbenzene
 Concen: 5.97 ppbv
 RT: 20.81 min Scan# 2907
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion: 91 Resp:10465491
 Ion Ratio Lower Upper
 91 100
 92 58.9 44.2 66.4
 134 27.0 19.3 28.9



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: 7.06 ppbv

RT: 17.48 min Scan# 2361

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

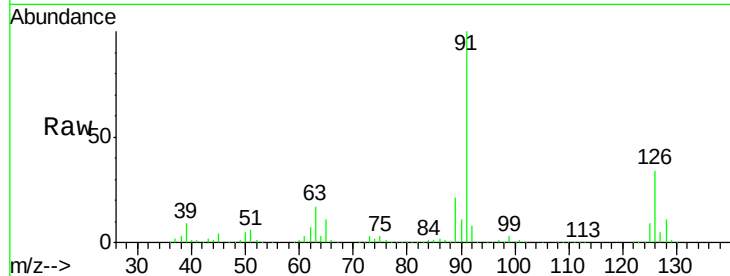
VSTDIC015

Tgt Ion: 91 Resp: 7746160

Ion Ratio Lower Upper

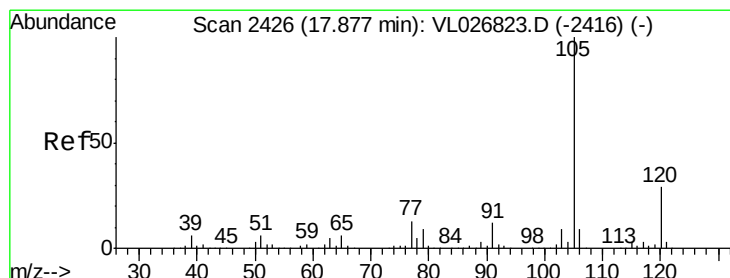
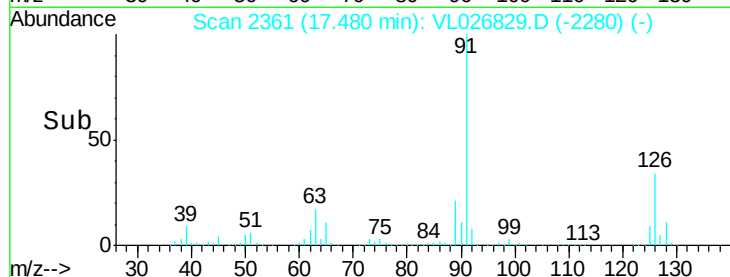
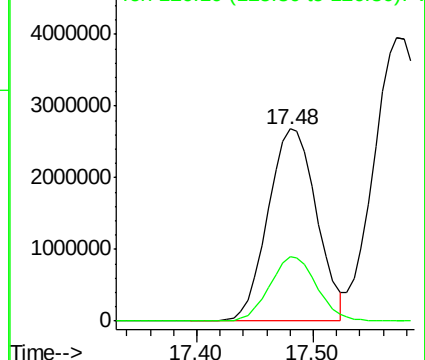
91 100

126 33.0 12.2 48.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 7.18 ppbv

RT: 17.88 min Scan# 2426

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Tgt Ion: 105 Resp: 8833510

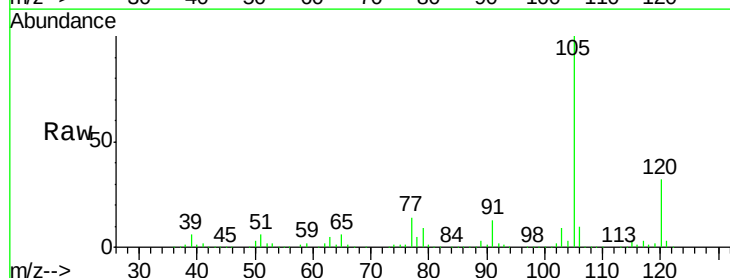
Ion Ratio Lower Upper

105 100

120 31.4 23.8 35.6

91 12.8 10.2 15.4

77 13.5 10.8 16.2

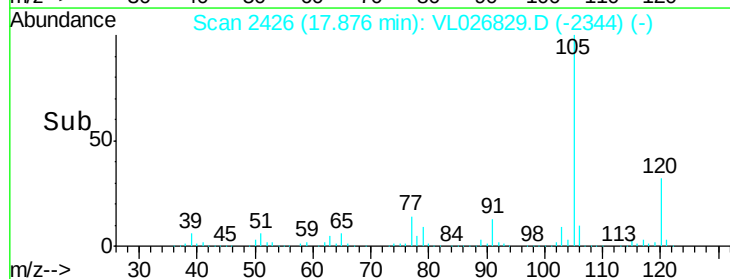
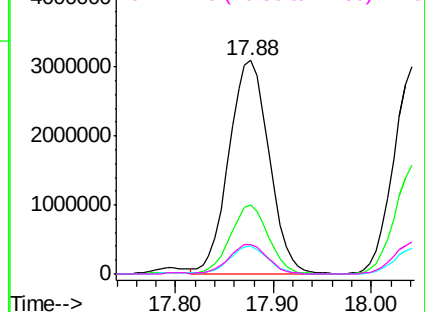


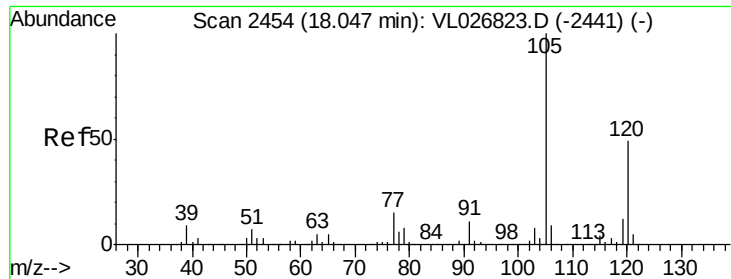
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 6.99 ppbv

RT: 18.04 min Scan# 2453

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

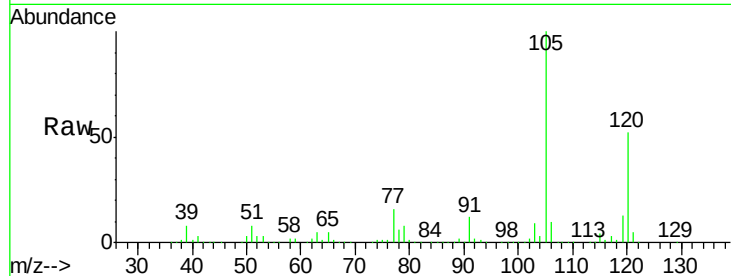
VSTDIC015

Tgt Ion:105 Resp: 8459025

Ion Ratio Lower Upper

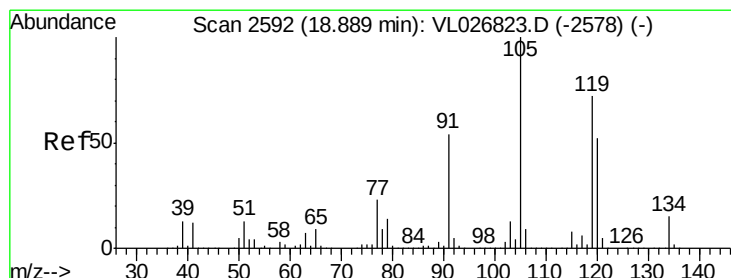
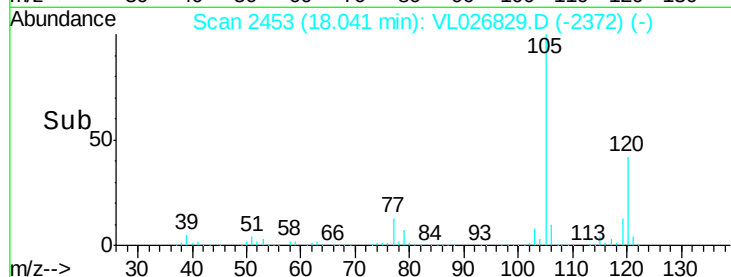
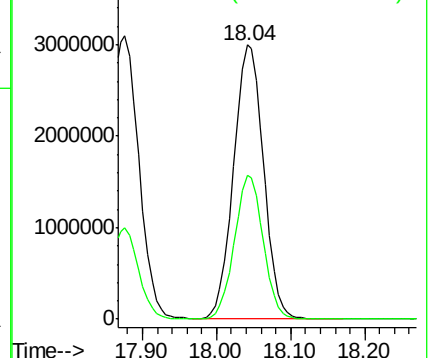
105 100

120 52.4 39.4 59.0



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: 7.19 ppbv

RT: 18.89 min Scan# 2592

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Tgt Ion:105 Resp: 9616693

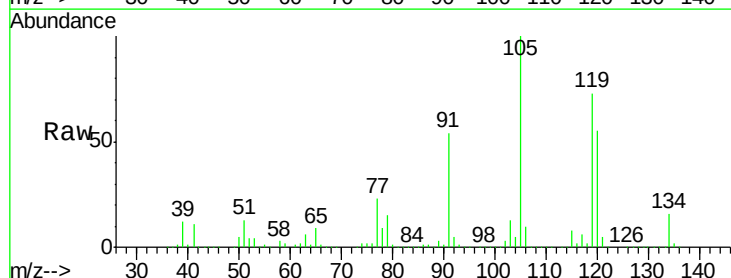
Ion Ratio Lower Upper

105 100

120 55.4 41.3 61.9

91 54.3 43.3 64.9

77 23.2 18.3 27.5

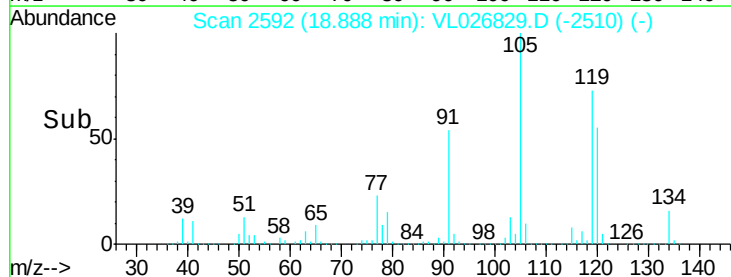
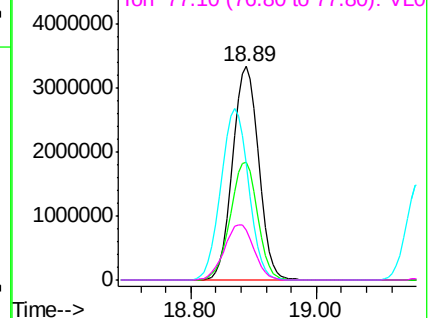


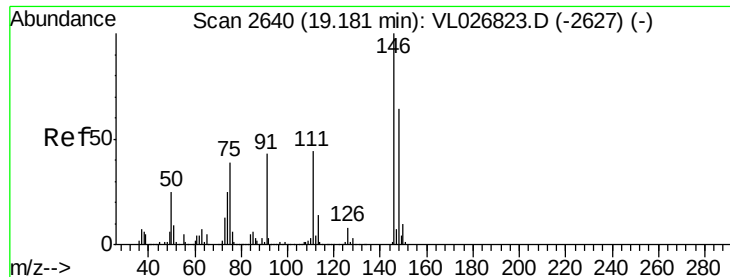
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 6.75 ppbv

RT: 19.18 min Scan# 2639

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

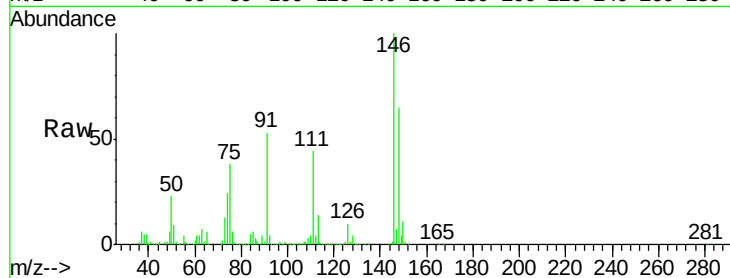
Tgt Ion:146 Resp: 5937137

Ion Ratio Lower Upper

146 100

111 43.3 22.1 66.3

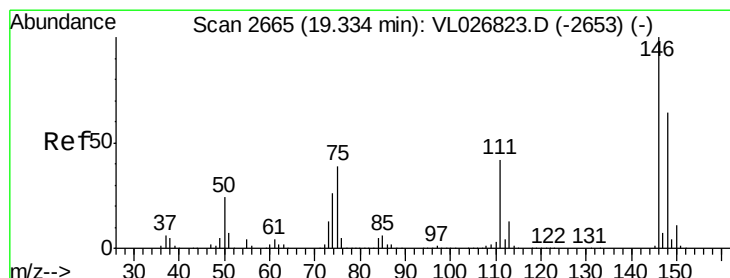
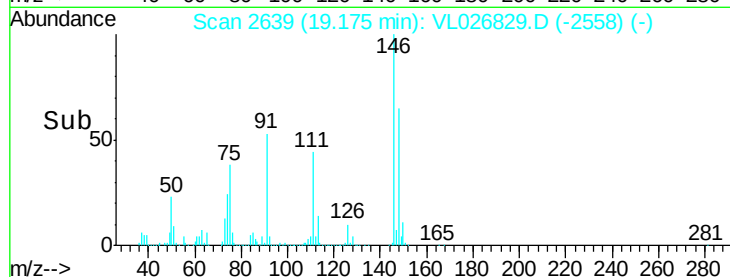
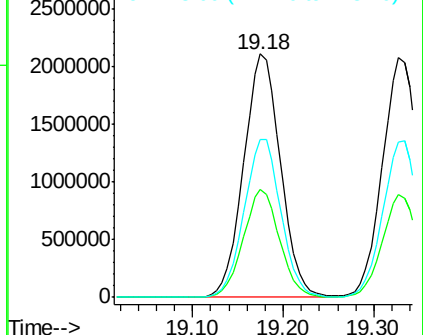
148 64.7 32.2 96.6



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: 6.63 ppbv

RT: 19.33 min Scan# 2664

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

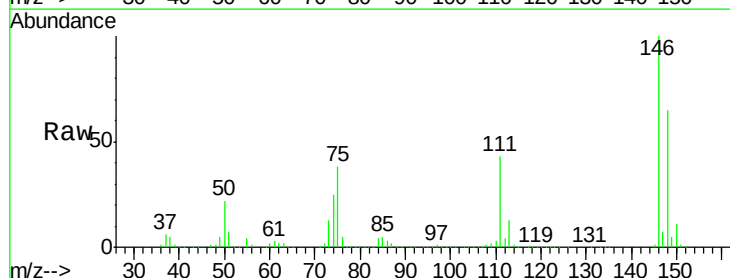
Tgt Ion:146 Resp: 5842270

Ion Ratio Lower Upper

146 100

111 42.1 21.6 64.8

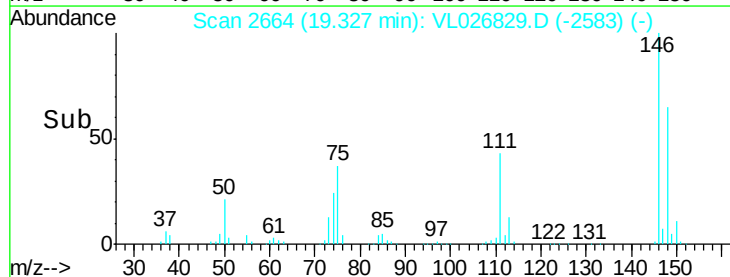
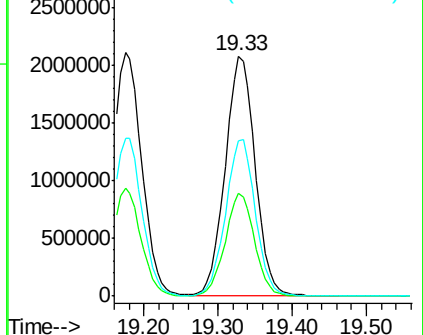
148 65.1 32.2 96.6

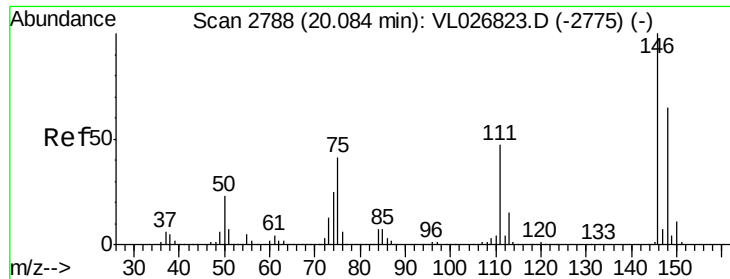


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 6.17 ppbv

RT: 20.08 min Scan# 2788

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

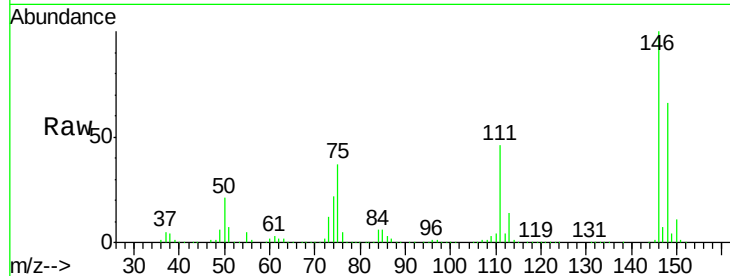
Tgt Ion:146 Resp: 5633498

Ion Ratio Lower Upper

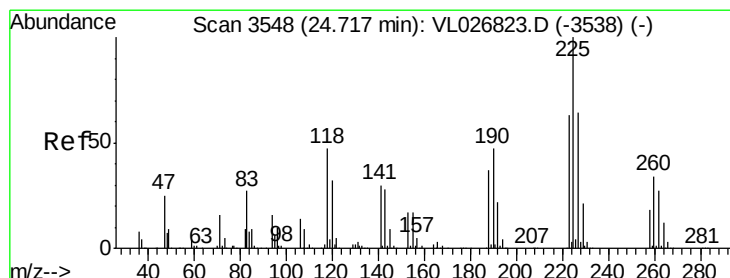
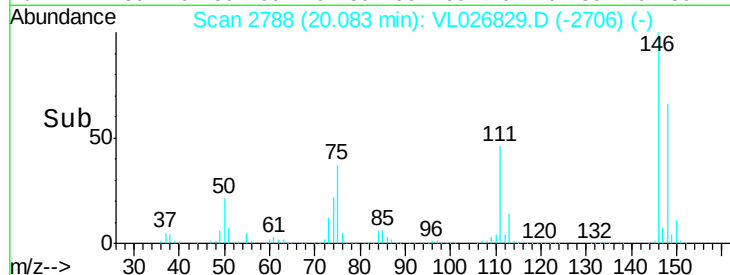
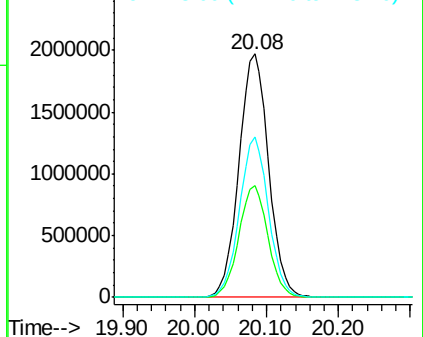
146 100

111 45.2 23.1 69.3

148 64.6 32.1 96.5



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



#78

Hexachloro-1,3-Butadiene

Concen: 5.64 ppbv

RT: 24.71 min Scan# 3547

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

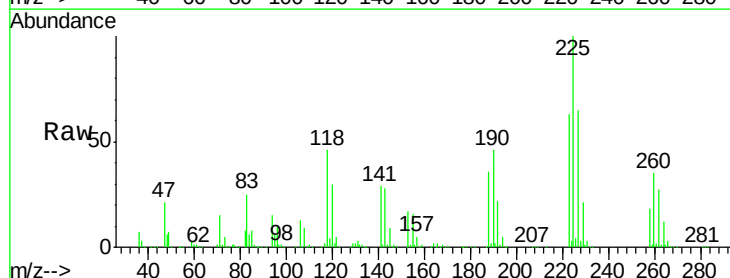
Tgt Ion:225 Resp: 2515288

Ion Ratio Lower Upper

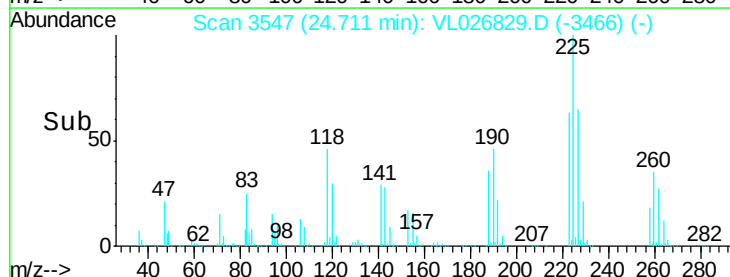
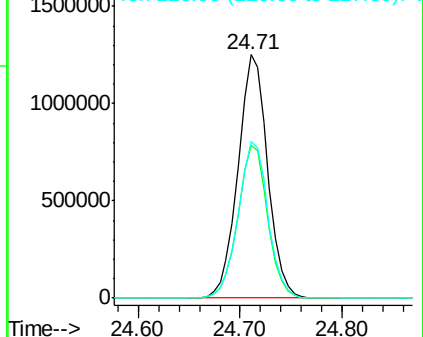
225 100

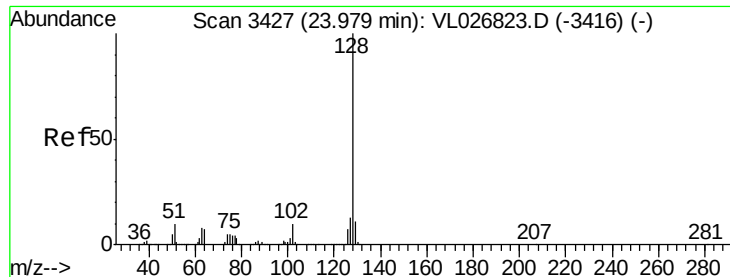
223 62.9 50.2 75.2

227 64.8 52.1 78.1



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: 4.13 ppbv

RT: 23.97 min Scan# 3426

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

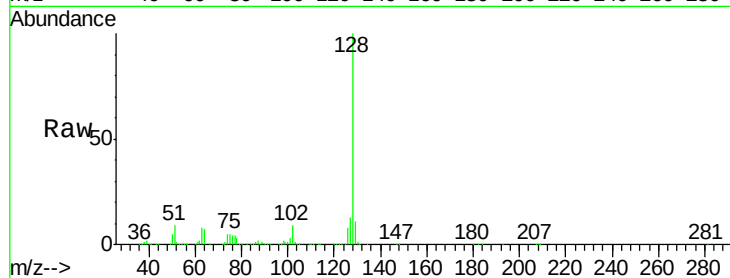
Tgt Ion:128 Resp: 4777793

Ion Ratio Lower Upper

128 100

127 13.4 10.0 15.0

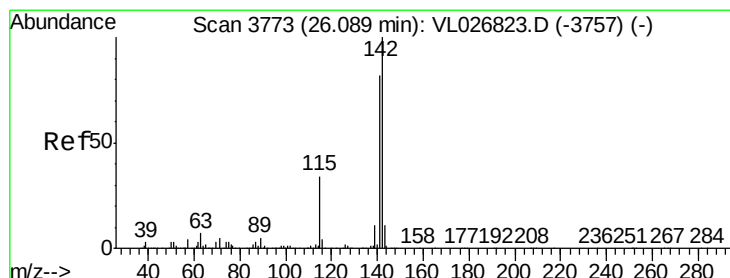
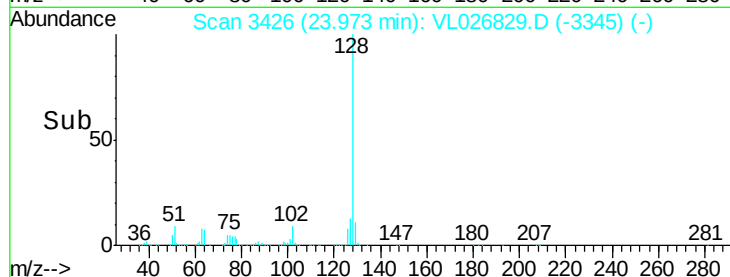
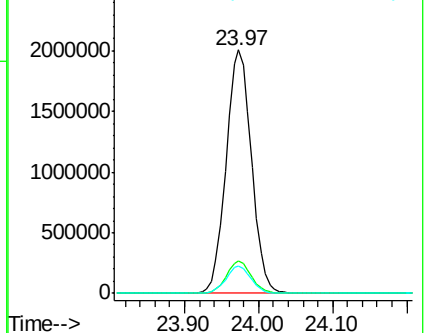
129 11.4 8.7 13.1



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: 8.52 ppbv

RT: 26.09 min Scan# 3773

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

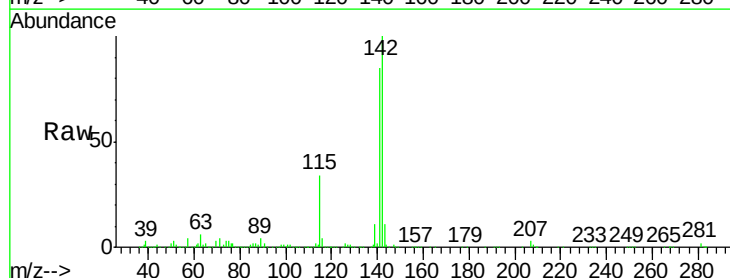
Tgt Ion:142 Resp: 1704161

Ion Ratio Lower Upper

142 100

141 83.8 67.2 100.8

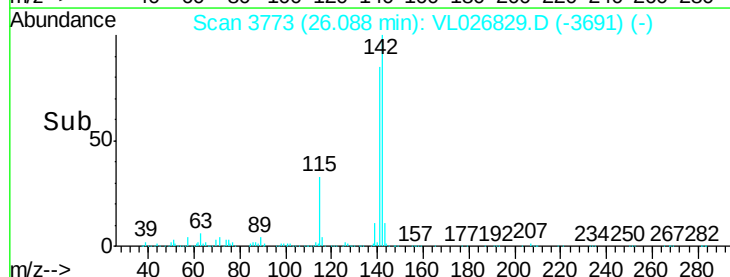
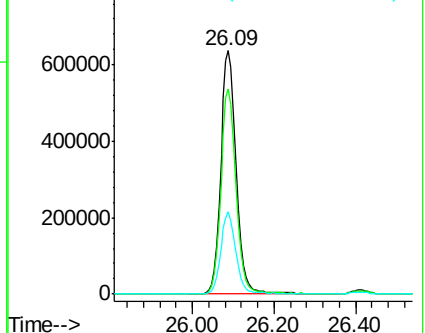
115 32.8 27.5 41.3

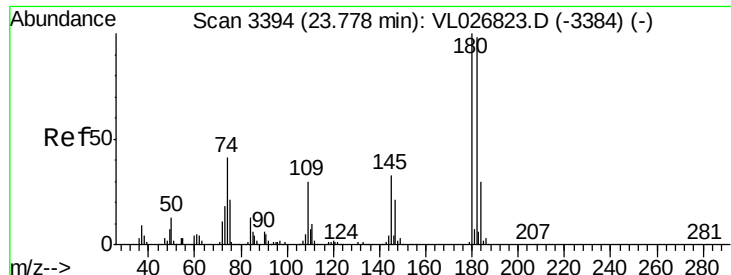


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 5.22 ppbv
 RT: 23.78 min Scan# 3394
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 2653199
 Ion Ratio Lower Upper
 180 100
 182 95.8 77.3 115.9
 184 30.5 24.5 36.7

