

Data File : VL031854.D

Acq On : 12 Apr 2018 2:13

Operator : SY/AP

Sample : VSTDIC0.5

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Quant Time: Apr 12 04:19:18 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Apr 12 04:17:02 2018

QLast Update : Thu Apr 12 04:17:02 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1312826	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2806043	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2705537	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.72	95	2226527	10.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.16	85	152268	0.62	ppbv	98
3) Chlorodifluoromethane	3.10	51	82623	0.49	ppbv	97
4) Chloromethane	3.26	50	40798	0.48	ppbv #	87
5) Vinyl Chloride	3.39	62	42371	0.50	ppbv	93
6) Bromomethane	3.61	94	28794	0.50	ppbv	98
7) Chloroethane	3.70	64	19300	0.55	ppbv #	87
8) Dichlorotetrafluoroethane	3.31	85	122526	0.54	ppbv	98
9) Propene	3.13	41	24769	0.37	ppbv	97
10) Heptane	8.39	43	78072	0.39	ppbv	99
11) Trichlorofluoromethane	4.11	101	148862	0.61	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.67	101	98798	0.61	ppbv	98
13) Ethanol	3.77	45	8296	0.39	ppbv	84
14) Bromoethene	3.89	108	34803	0.53	ppbv	99
15) Acetone	4.03	43	113668	0.51	ppbv	97
16) 1,3-Butadiene	3.46	39	37847	0.47	ppbv	96
18) 1,1-Dichloroethene	4.47	96	40565	0.55	ppbv	98
19) Isopropyl Alcohol	4.15	45	60523	0.50	ppbv #	93
20) Methylene Chloride	4.52	84	44522	0.61	ppbv #	86
21) Allyl Chloride	4.59	41	33125	0.28	ppbv #	30
22) trans-1,2-Dichloroethene	5.08	96	41369	0.53	ppbv	94
23) Vinyl Acetate	5.28	43	97369	0.40	ppbv #	95
24) 1,1-Dichloroethane	5.21	63	114694	0.56	ppbv	98
25) Ethyl Acetate	5.91	43	165395	0.49	ppbv	98
26) Hexane	5.90	57	75420	0.48	ppbv	93
27) Carbon Disulfide	4.74	76	96958	0.57	ppbv #	92
28) Methyl tert-Butyl Ether	5.25	73	44961	0.21	ppbv #	54
29) Chloroform	5.97	83	139067	0.56	ppbv	98
30) Cyclohexane	7.39	84	25188	0.20	ppbv #	34
31) cis-1,2-Dichloroethene	5.76	61	46104	0.32	ppbv	98
32) 1,1,1-Trichloroethane	6.75	97	127840	0.49	ppbv	96
34) 2-Butanone	5.47	43	102811	0.53	ppbv	97
35) Carbon Tetrachloride	7.27	117	81793	0.39	ppbv	96
36) Benzene	7.14	78	123233	0.47	ppbv #	93
37) 1,2-Dichloroethane	6.54	62	67839	0.39	ppbv #	91
38) Trichloroethene	8.10	130	51560	0.48	ppbv	92
39) 1,2-Dichloropropane	7.87	63	48249	0.51	ppbv	96
41) Tetrahydrofuran	6.30	42	17527	0.18	ppbv #	26
42) Bromodichloromethane	8.05	83	119095	0.57	ppbv	99
43) Methyl Methacrylate	8.28	69	39617	0.42	ppbv	97
44) 2,2,4-Trimethylpentane	8.13	57	208827	0.49	ppbv	94
45) t-1,3-Dichloropropene	9.56	75	46712	0.37	ppbv	99

Data File : VL031854.D

Acq On : 12 Apr 2018 2:13

Operator : SY/AP

Sample : VSTDIC0.5

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Quant Time: Apr 12 04:19:18 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 04:17:02 2018

QLast Update : Thu Apr 12 04:17:02 2018

Response via : Initial Calibration

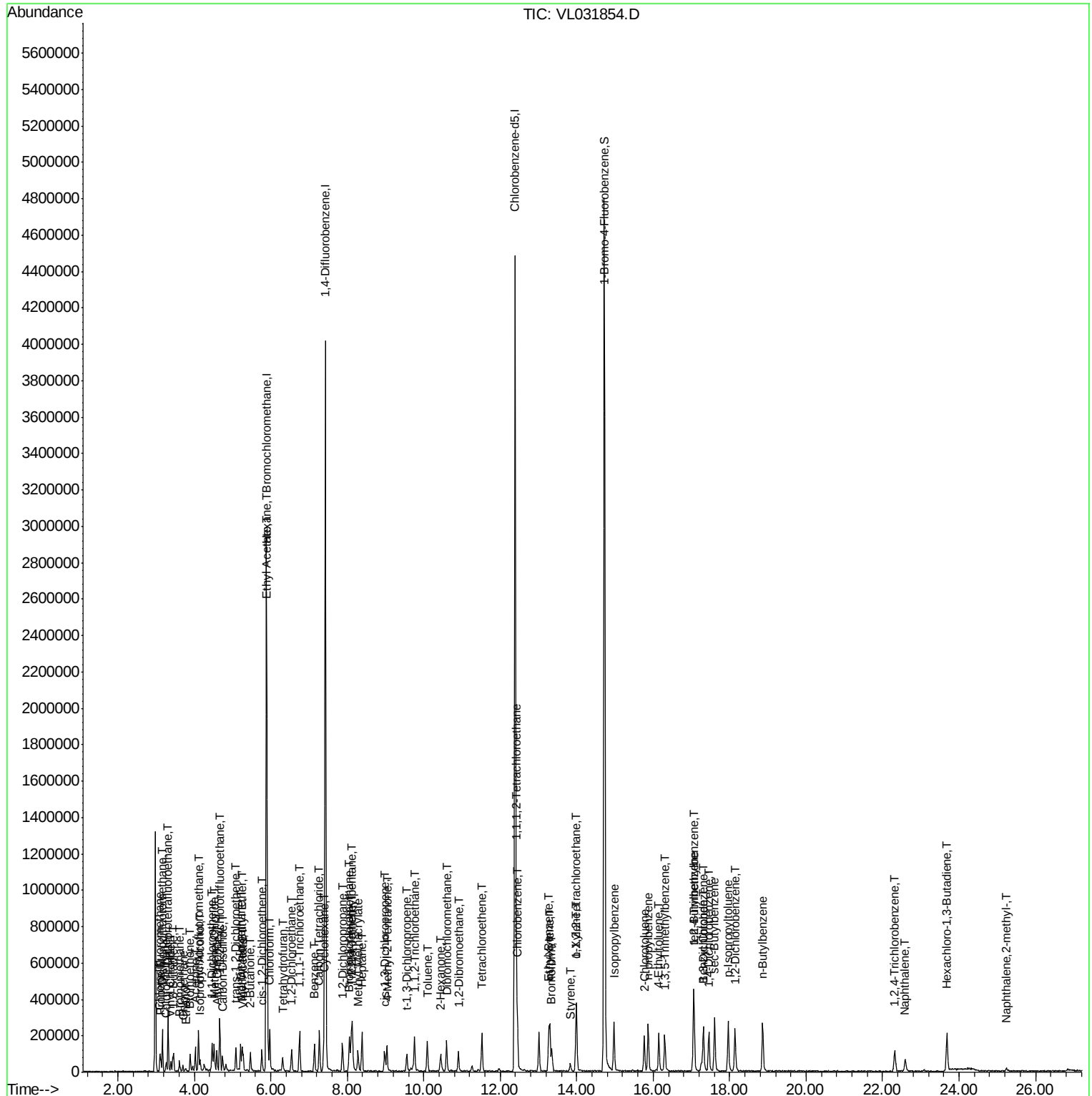
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.98	75	62665	0.40	ppbv	91
47) 1,1,2-Trichloroethane	9.76	97	30673	0.28	ppbv	94
48) Dibromochloromethane	10.60	129	89863	0.53	ppbv	100
49) Bromoform	13.35	173	34510	0.28	ppbv #	29
50) 4-Methyl-2-Pentanone	9.04	43	102549	0.46	ppbv	96
51) 2-Hexanone	10.44	43	74517	0.36	ppbv #	29
52) Tetrachloroethene	11.52	164	34491	0.32	ppbv #	85
53) Toluene	10.10	91	117296	0.38	ppbv	99
54) 1,2-Dibromoethane	10.91	107	80616	0.49	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.42	131	70934	0.57	ppbv #	1
57) Chlorobenzene	12.45	112	128234	0.53	ppbv #	83
58) Ethyl Benzene	13.27	91	100349	0.23	ppbv	94
59) m/p-Xylene	13.30	91	172615	0.49	ppbv #	100
60) o-Xylene	14.00	91	149100	0.42	ppbv	99
61) Styrene	13.83	104	14668	0.18	ppbv #	44
62) Isopropylbenzene	14.97	105	203186	0.45	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.98	83	133187	0.57	ppbv	99
64) n-propylbenzene	15.88	120	19350	0.18	ppbv #	1
65) tert-Butylbenzene	17.06	119	170038	0.44	ppbv	93
66) Benzyl Chloride	17.30	91	4416	0.13	ppbv #	68
67) sec-Butylbenzene	17.60	105	249924	0.46	ppbv	100
69) p-Isopropyltoluene	17.97	119	182605	0.42	ppbv	98
70) n-Butylbenzene	18.86	91	197118	0.46	ppbv	95
71) 2-Chlorotoluene	15.77	91	140409	0.41	ppbv	99
72) 4-Ethyltoluene	16.15	105	59712	0.17	ppbv #	48
73) 1,3,5-Trimethylbenzene	16.30	105	141863	0.43	ppbv	98
74) 1,2,4-Trimethylbenzene	17.07	105	179666	0.51	ppbv	93
75) 1,3-Dichlorobenzene	17.31	146	112876	0.52	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	30332	0.14	ppbv #	23
77) 1,2-Dichlorobenzene	18.14	146	105743	0.51	ppbv	95
78) Hexachloro-1,3-Butadiene	23.68	225	38524	0.45	ppbv #	75
79) Naphthalene	22.60	128	40614	0.18	ppbv	96
80) Naphthalene,2-methyl-	25.24	142	12252	0.22	ppbv	95
81) 1,2,4-Trichlorobenzene	22.32	180	30330	0.25	ppbv #	42

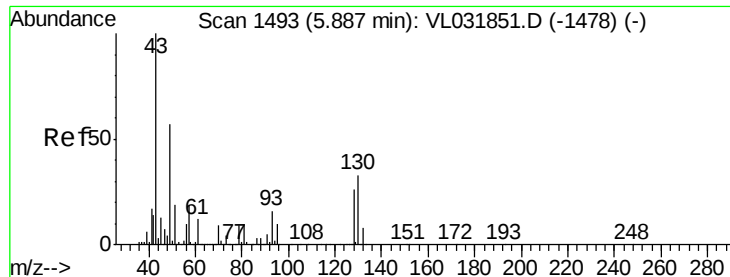
(#)=qualifier out of range (m)=manual integration (+)=signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC0.5

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

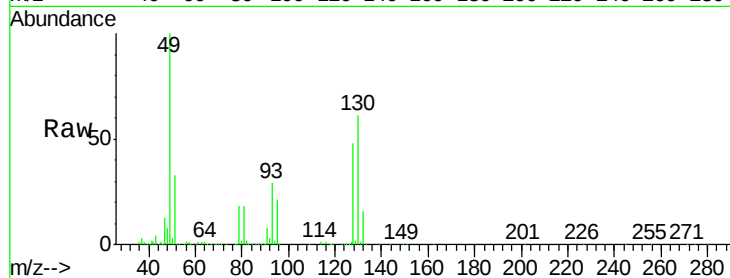
Tgt Ion: 49 Resp: 1312826

Ion Ratio Lower Upper

49 100

128 48.7 23.9 71.8

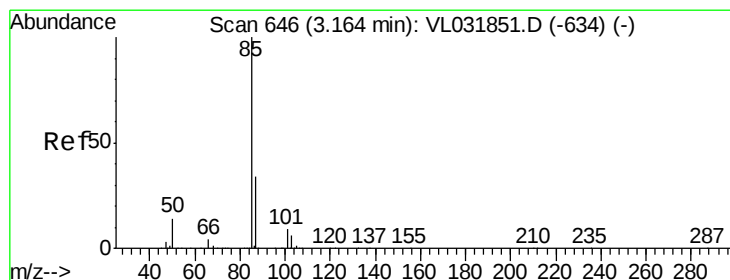
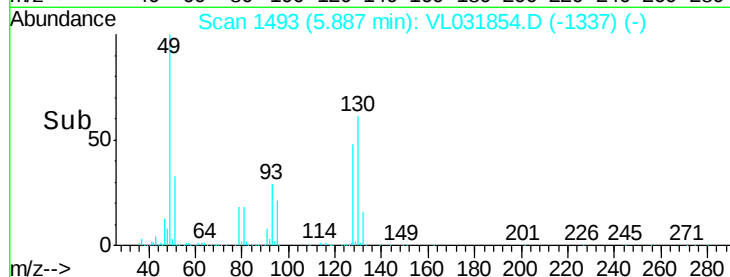
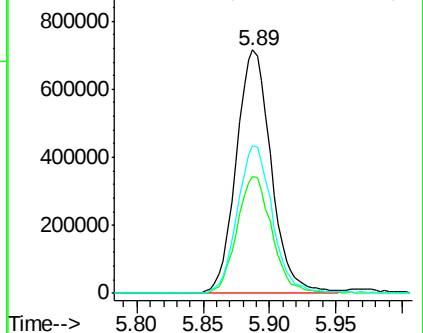
130 61.3 31.1 93.2



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: 0.62 ppbv

RT: 3.16 min Scan# 646

Delta R.T. 0.00 min

Lab File: VL031854.D

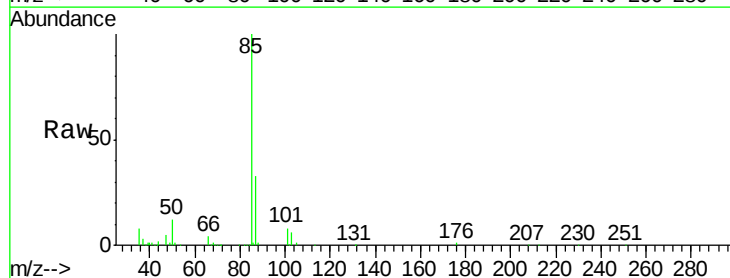
Acq: 12 Apr 2018 2:13

Tgt Ion: 85 Resp: 152268

Ion Ratio Lower Upper

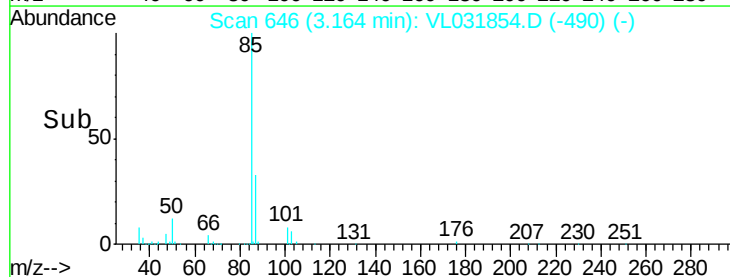
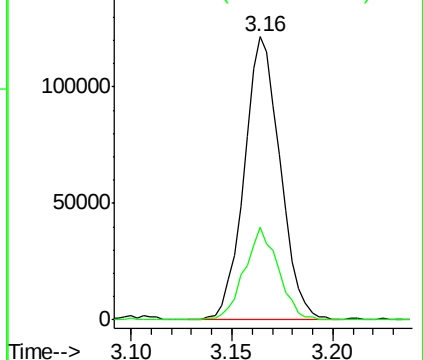
85 100

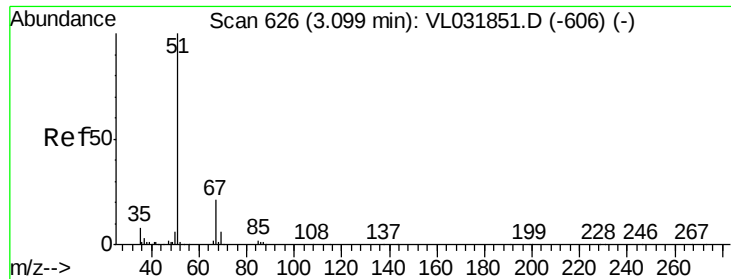
87 32.8 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.49 ppbv

RT: 3.10 min Scan# 626

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

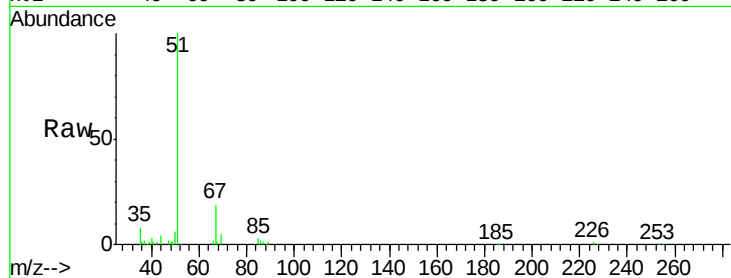
VSTDIC0.5

Tgt Ion: 51 Resp: 82623

Ion Ratio Lower Upper

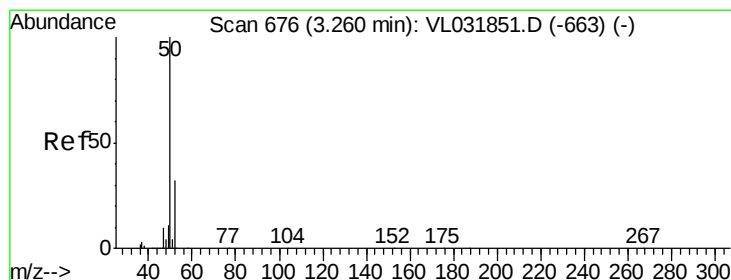
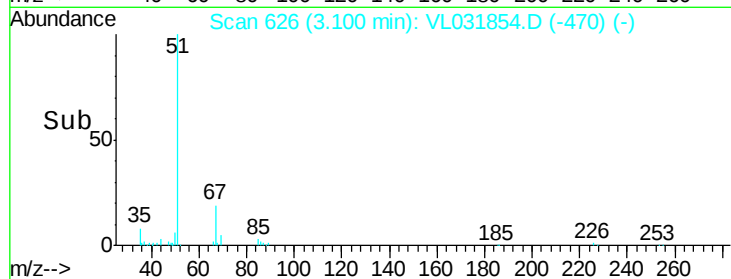
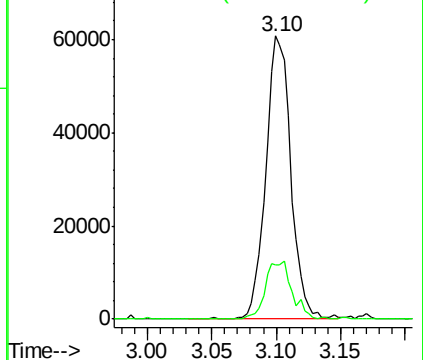
51 100

67 22.1 16.7 25.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.48 ppbv

RT: 3.26 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL031854.D

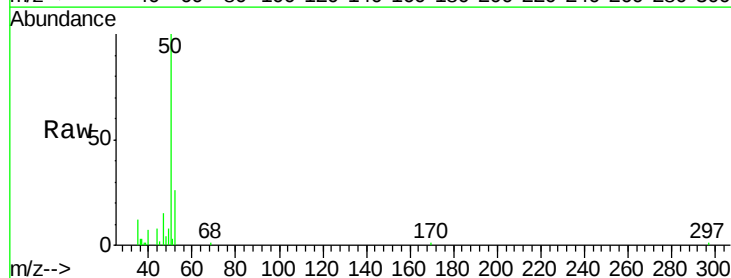
Acq: 12 Apr 2018 2:13

Tgt Ion: 50 Resp: 40798

Ion Ratio Lower Upper

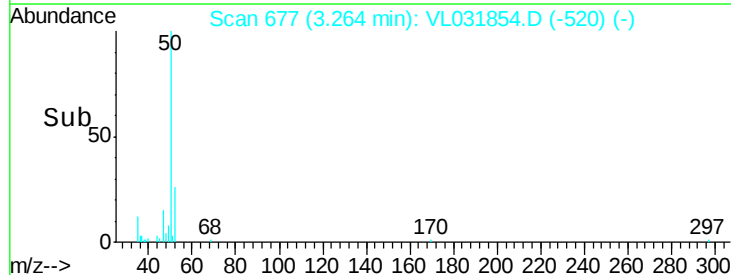
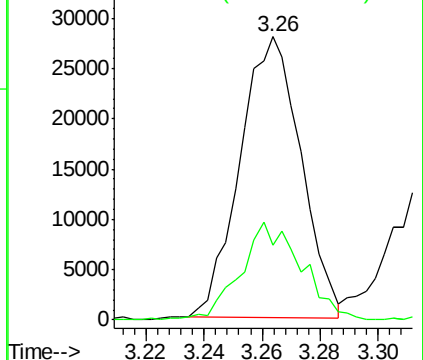
50 100

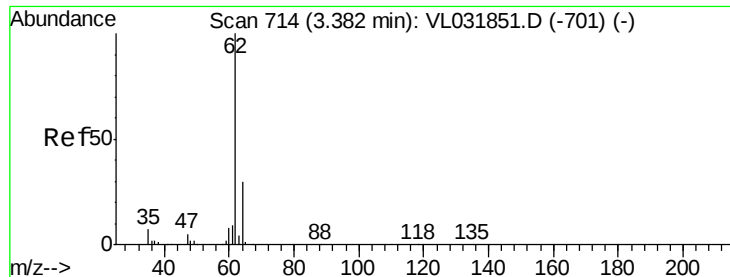
52 25.3 26.0 39.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.50 ppbv

RT: 3.39 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

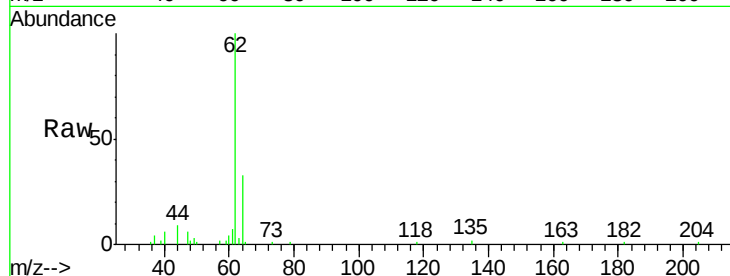
VSTDIC0.5

Tgt Ion: 62 Resp: 42371

Ion Ratio Lower Upper

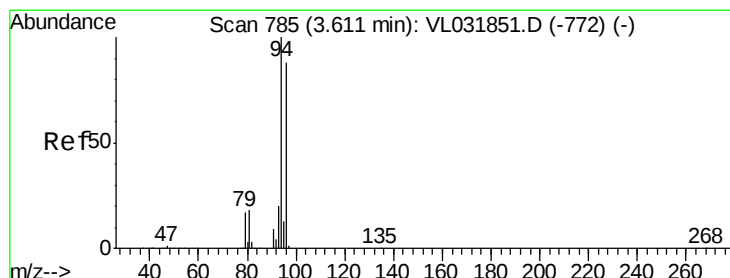
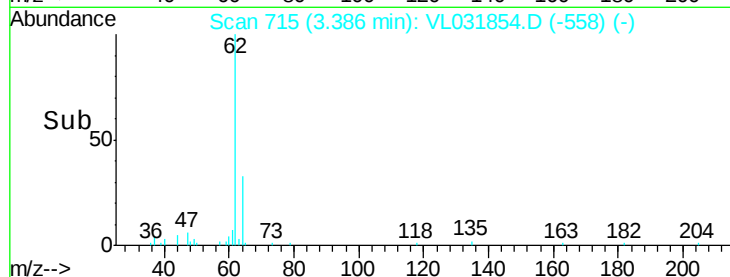
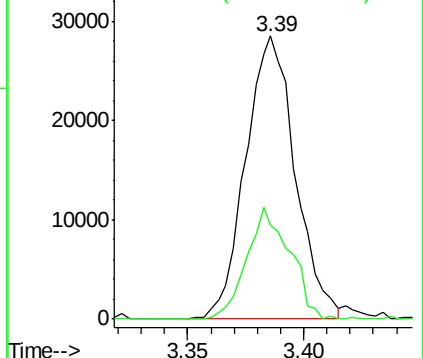
62 100

64 33.4 23.8 35.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.50 ppbv

RT: 3.61 min Scan# 786

Delta R.T. 0.00 min

Lab File: VL031854.D

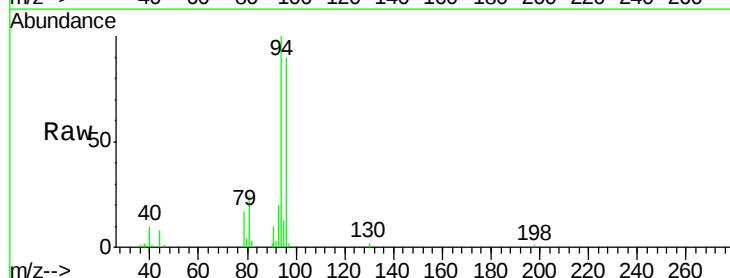
Acq: 12 Apr 2018 2:13

Tgt Ion: 94 Resp: 28794

Ion Ratio Lower Upper

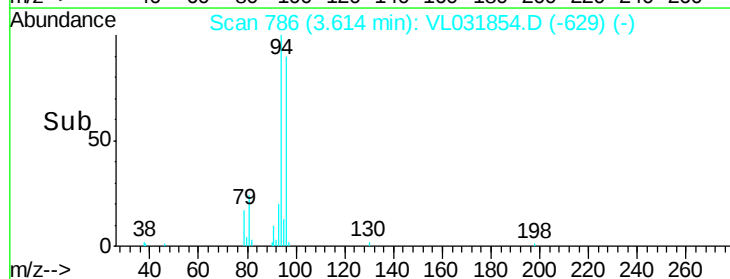
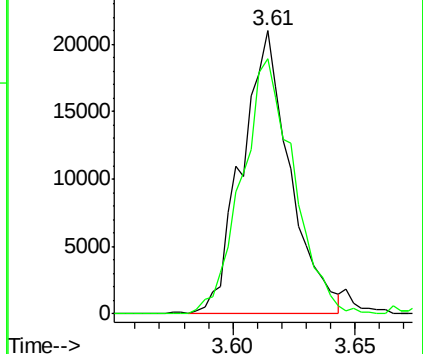
94 100

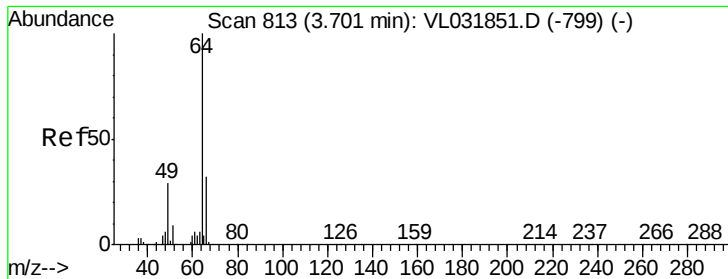
96 90.1 70.6 105.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.55 ppbv

RT: 3.70 min Scan# 813

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

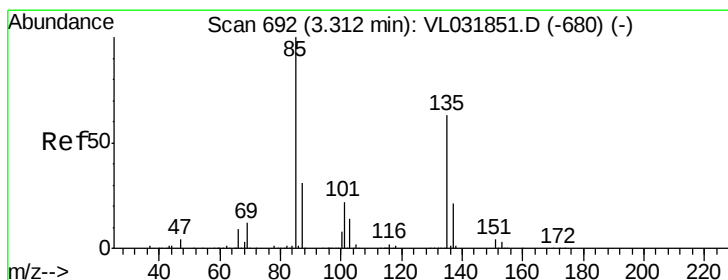
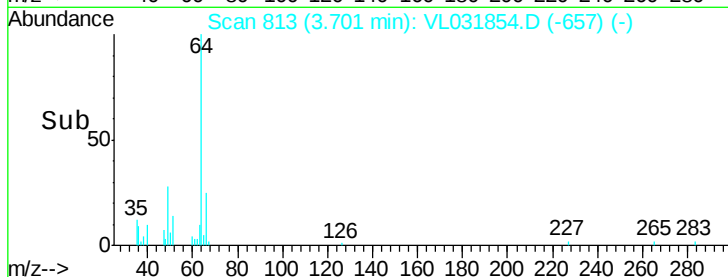
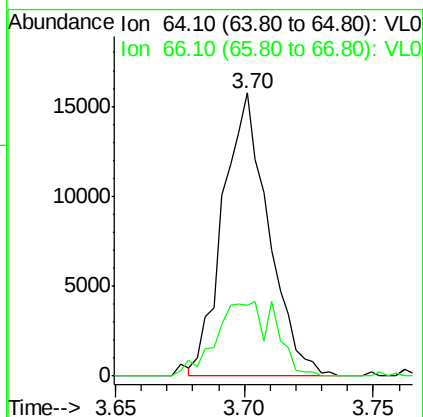
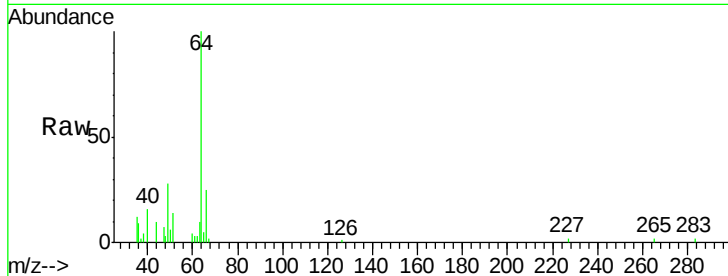
VSTDIC0.5

Tgt Ion: 64 Resp: 19300

Ion Ratio Lower Upper

64 100

66 24.9 25.5 38.3#



#8

Dichlorotetrafluoroethane

Concen: 0.54 ppbv

RT: 3.31 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL031854.D

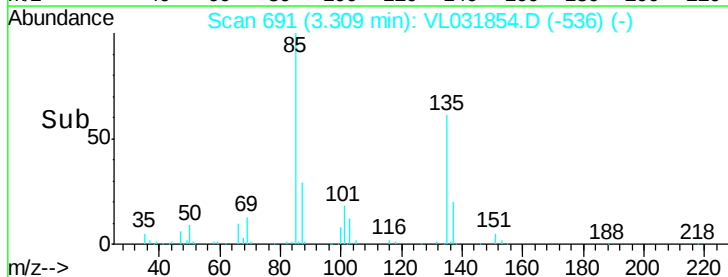
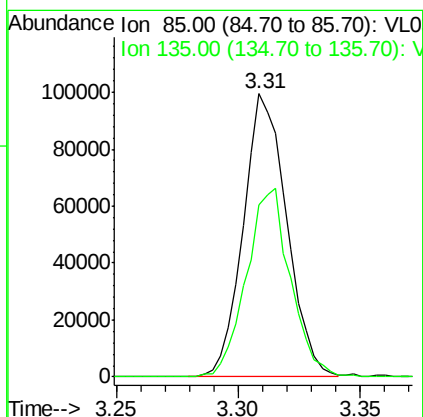
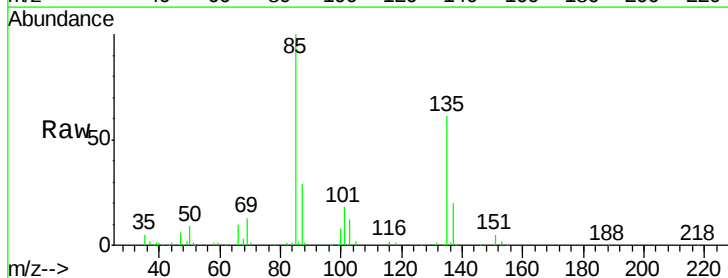
Acq: 12 Apr 2018 2:13

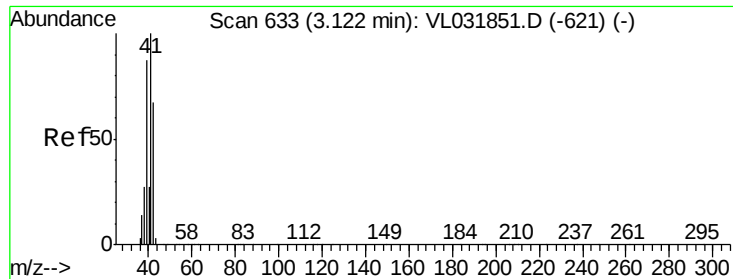
Tgt Ion: 85 Resp: 122526

Ion Ratio Lower Upper

85 100

135 67.5 52.6 79.0





#9

Propene

Concen: 0.37 ppbv

RT: 3.13 min Scan# 634

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

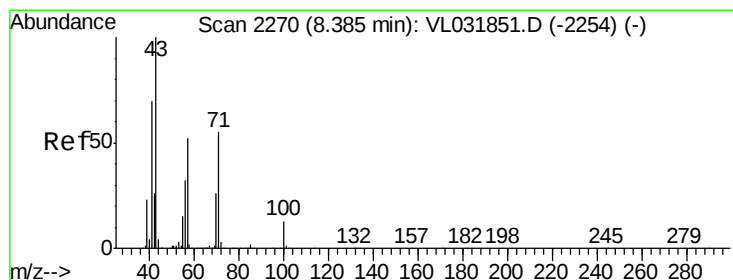
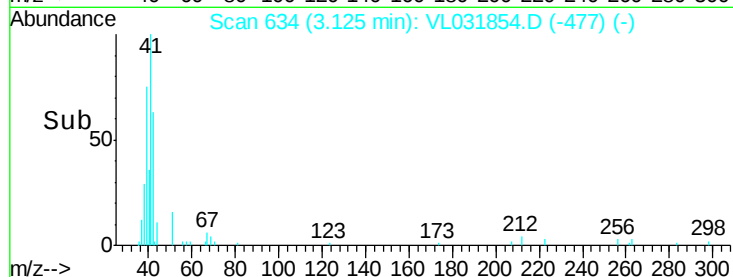
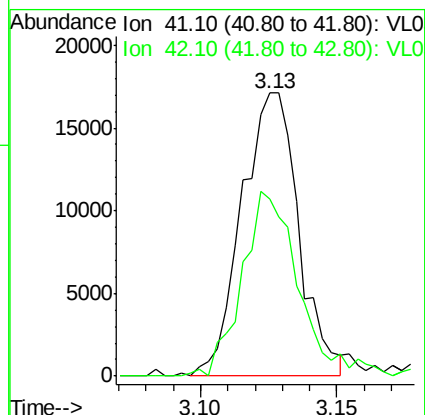
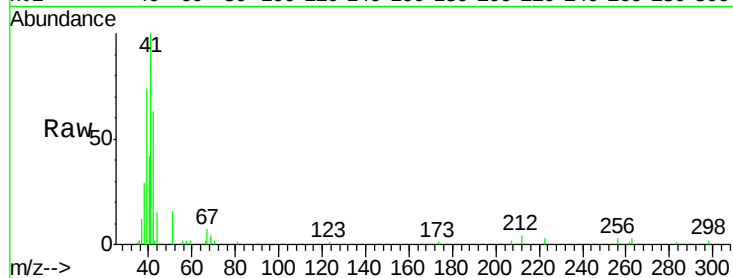
VSTDIC0.5

Tgt Ion: 41 Resp: 24769

Ion Ratio Lower Upper

41 100

42 65.7 54.3 81.5



#10

Heptane

Concen: 0.39 ppbv

RT: 8.39 min Scan# 2270

Delta R.T. 0.00 min

Lab File: VL031854.D

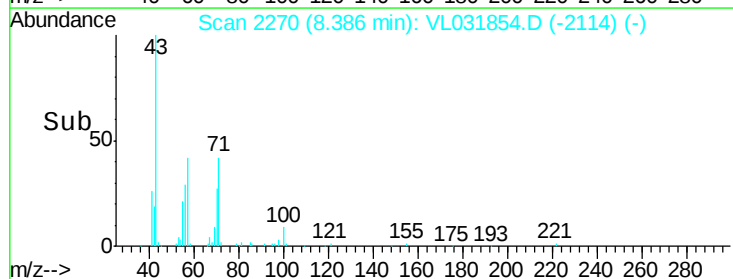
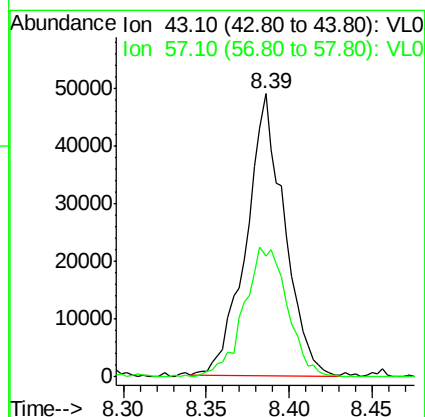
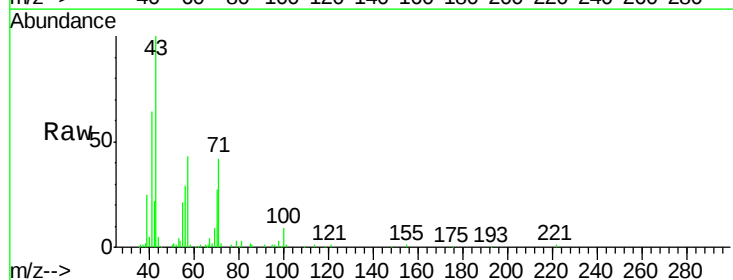
Acq: 12 Apr 2018 2:13

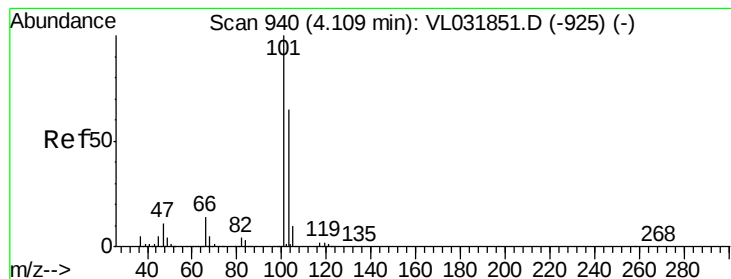
Tgt Ion: 43 Resp: 78072

Ion Ratio Lower Upper

43 100

57 52.6 41.4 62.2





#11

Trichlorofluoromethane

Concen: 0.61 ppbv

RT: 4.11 min Scan# 940

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

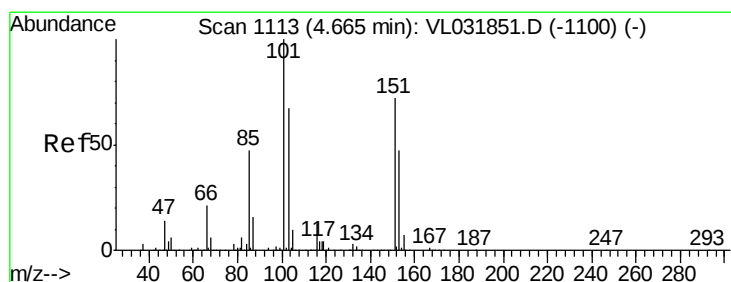
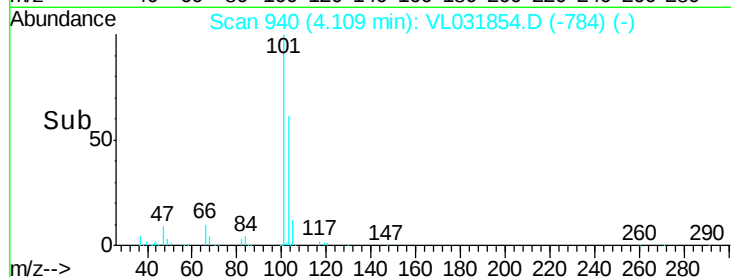
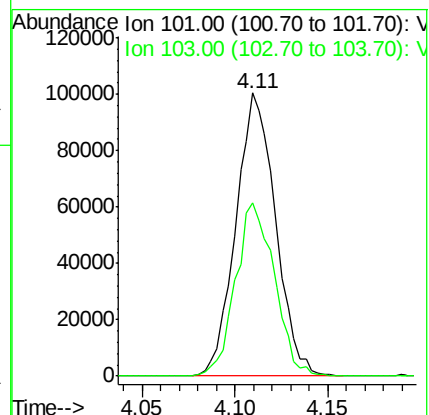
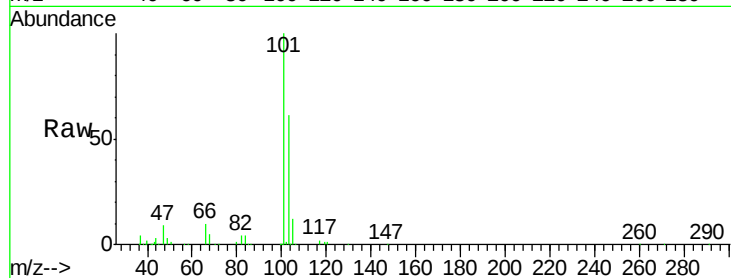
VSTDIC0.5

Tgt Ion:101 Resp: 148862

Ion Ratio Lower Upper

101 100

103 60.9 51.8 77.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.61 ppbv

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VL031854.D

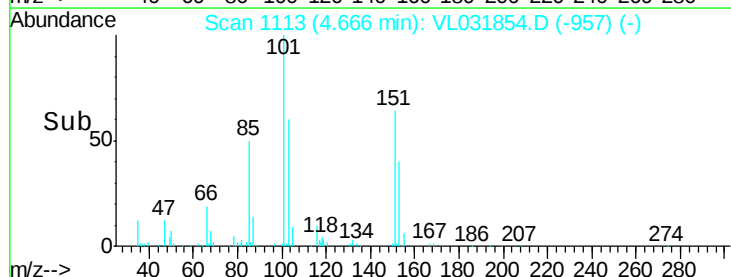
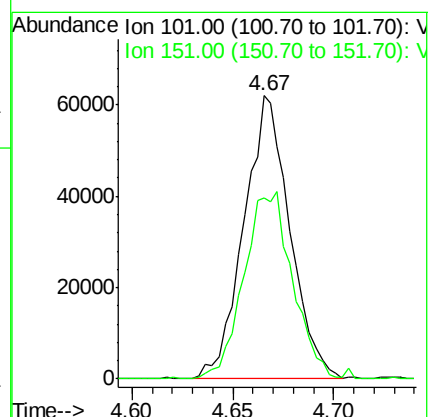
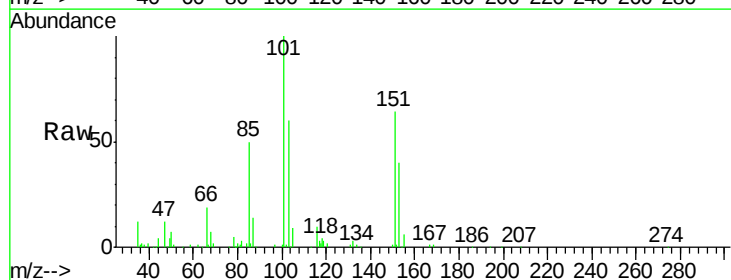
Acq: 12 Apr 2018 2:13

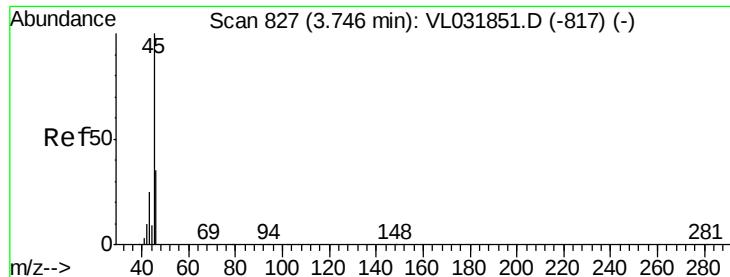
Tgt Ion:101 Resp: 98798

Ion Ratio Lower Upper

101 100

151 70.4 57.7 86.5





#13

Ethanol

Concen: 0.39 ppbv

RT: 3.77 min Scan# 834

Delta R.T. 0.02 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

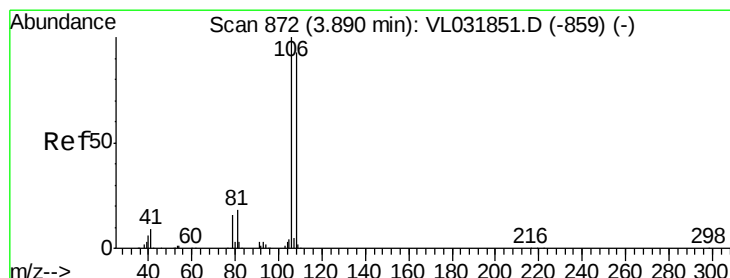
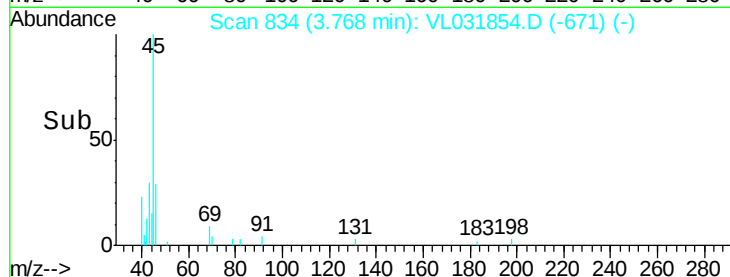
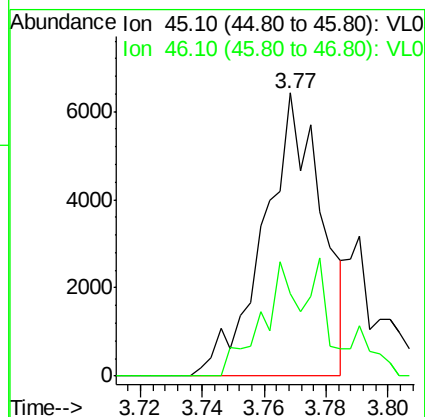
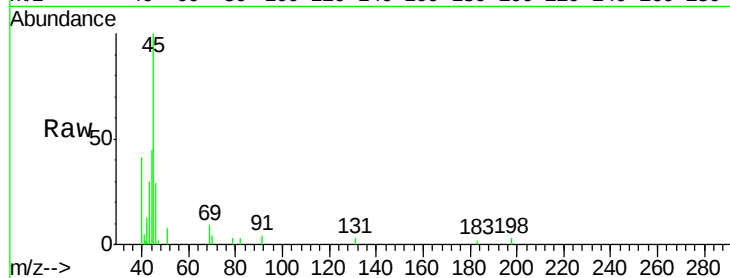
VSTDIC0.5

Tgt Ion: 45 Resp: 8296

Ion Ratio Lower Upper

45 100

46 46.0 14.6 58.4



#14

Bromoethene

Concen: 0.53 ppbv

RT: 3.89 min Scan# 872

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

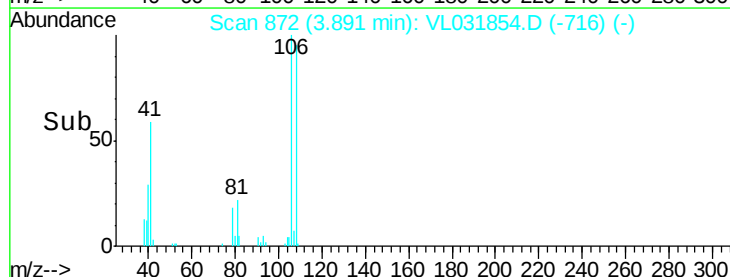
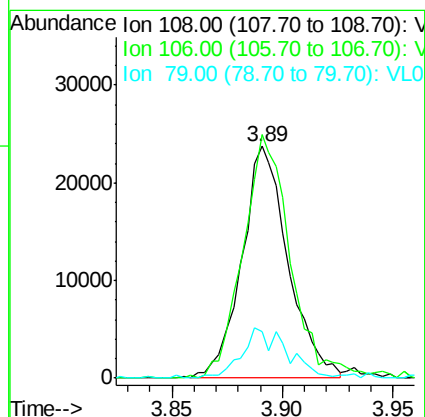
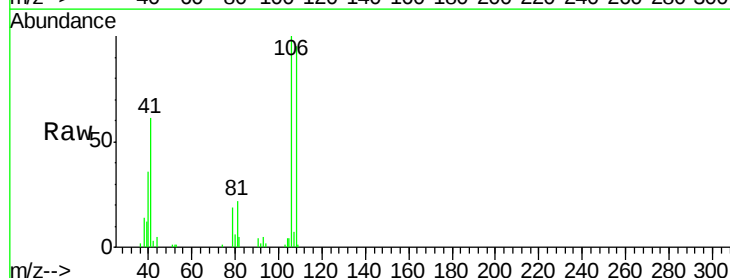
Tgt Ion: 108 Resp: 34803

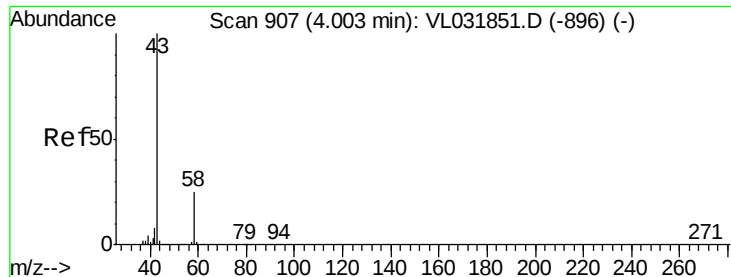
Ion Ratio Lower Upper

108 100

106 108.4 86.9 130.3

79 22.5 15.5 23.3





#15

Acetone

Concen: 0.51 ppbv

RT: 4.03 min Scan# 914

Delta R.T. 0.02 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

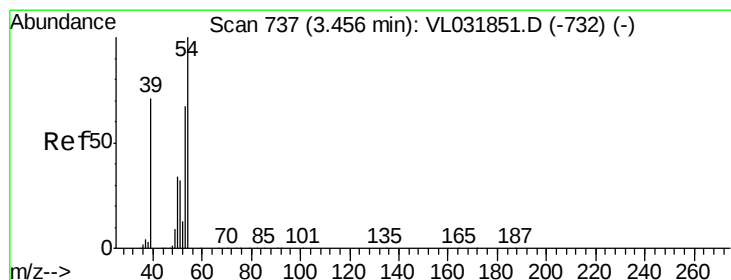
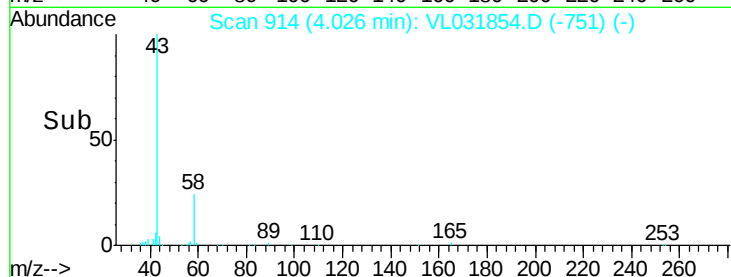
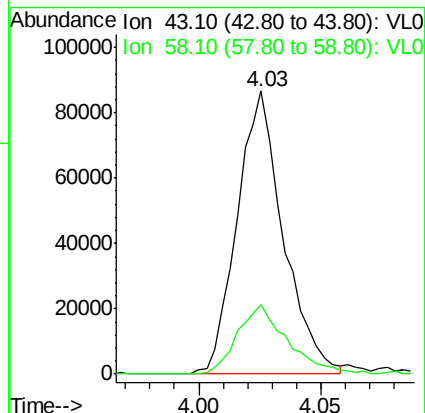
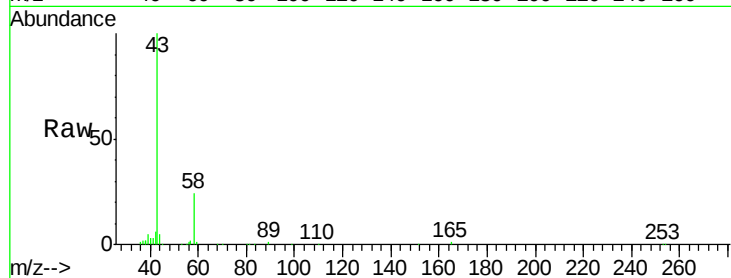
VSTDIC0.5

Tgt Ion: 43 Resp: 113668

Ion Ratio Lower Upper

43 100

58 27.2 20.7 31.1



#16

1,3-Butadiene

Concen: 0.47 ppbv

RT: 3.46 min Scan# 737

Delta R.T. 0.00 min

Lab File: VL031854.D

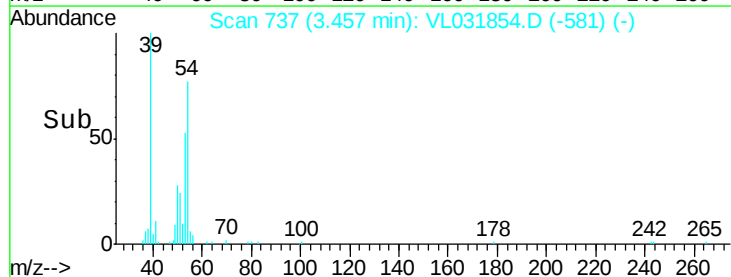
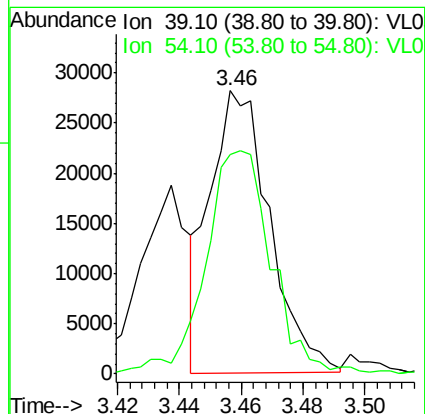
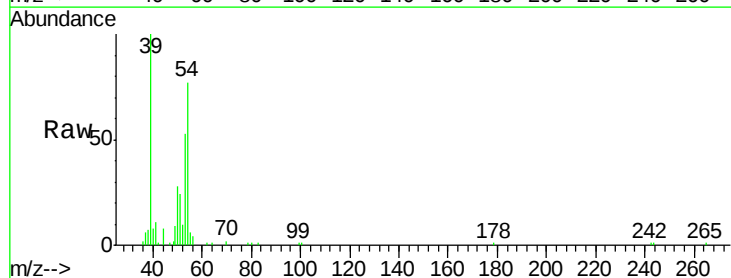
Acq: 12 Apr 2018 2:13

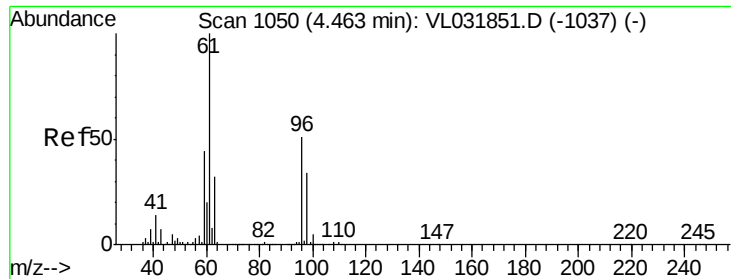
Tgt Ion: 39 Resp: 37847

Ion Ratio Lower Upper

39 100

54 87.6 67.5 101.3

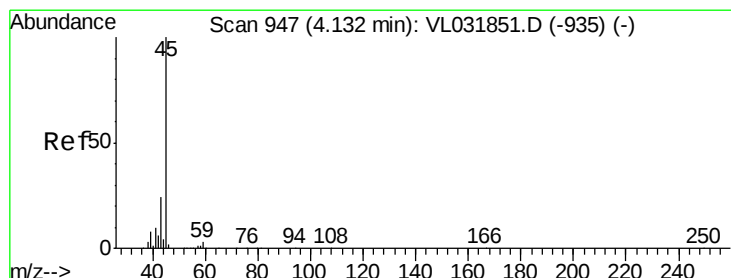
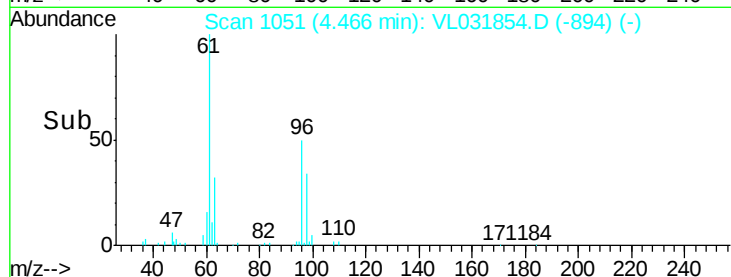
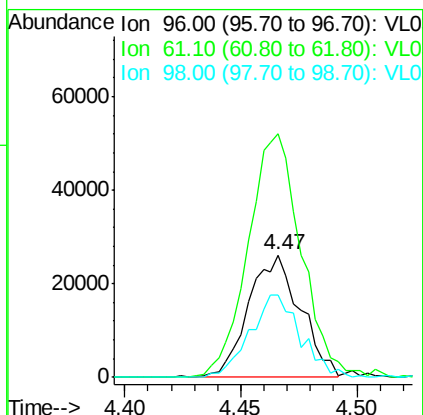
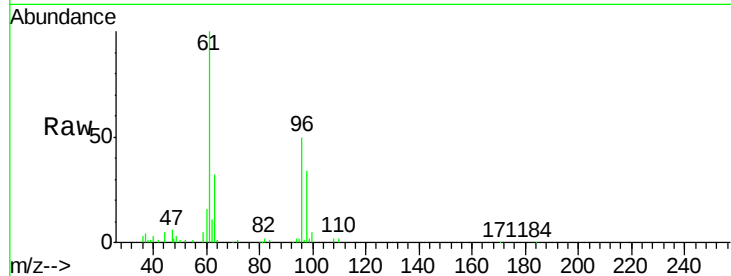




#18
 1,1-Dichloroethene
 Concen: 0.55 ppbv
 RT: 4.47 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

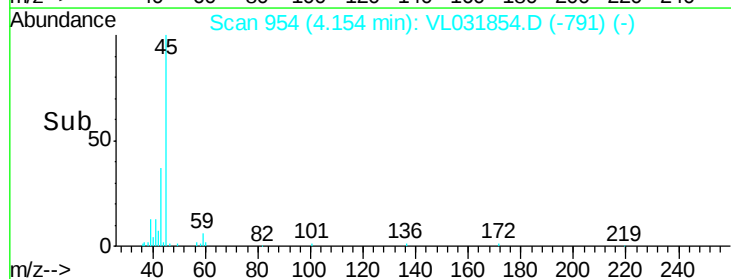
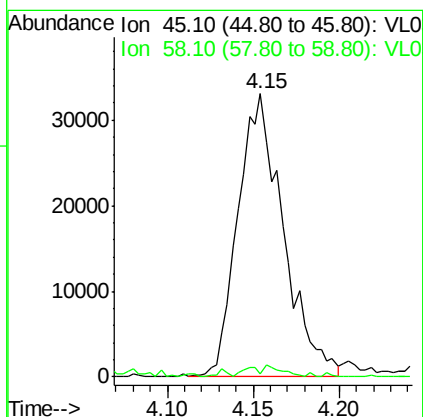
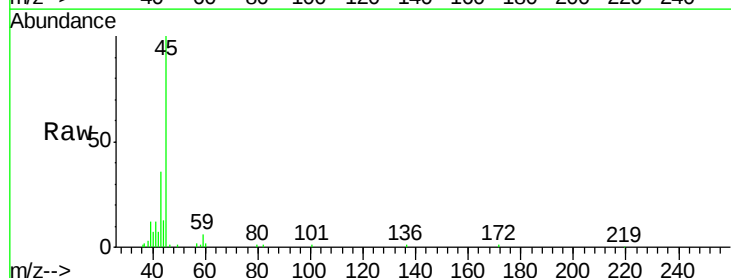
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

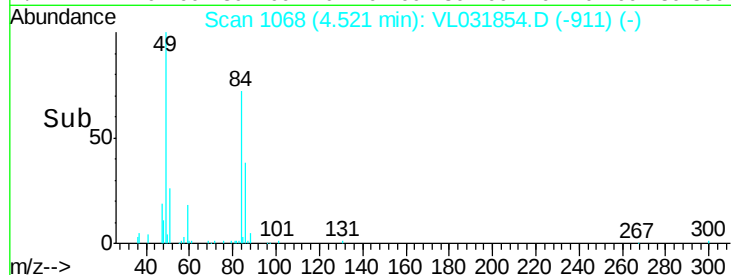
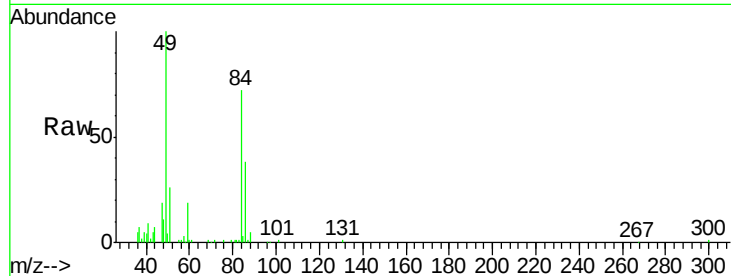
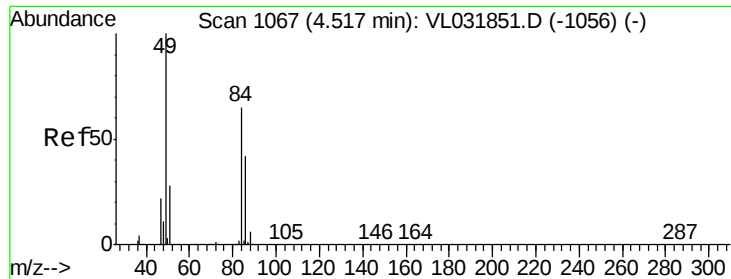
Tgt Ion: 96 Resp: 40565
 Ion Ratio Lower Upper
 96 100
 61 199.5 157.2 235.8
 98 67.1 53.0 79.4



#19
 Isopropyl Alcohol
 Concen: 0.50 ppbv
 RT: 4.15 min Scan# 954
 Delta R.T. 0.02 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

Tgt Ion: 45 Resp: 60523
 Ion Ratio Lower Upper
 45 100
 58 4.2 1.4 2.0#

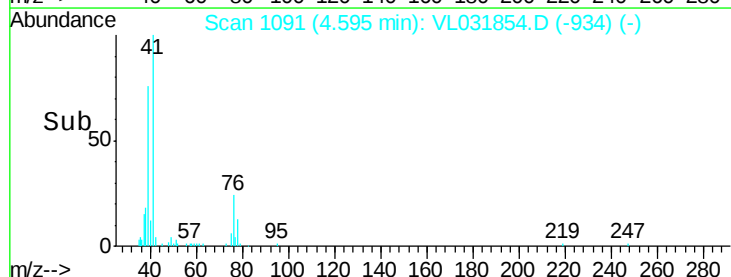
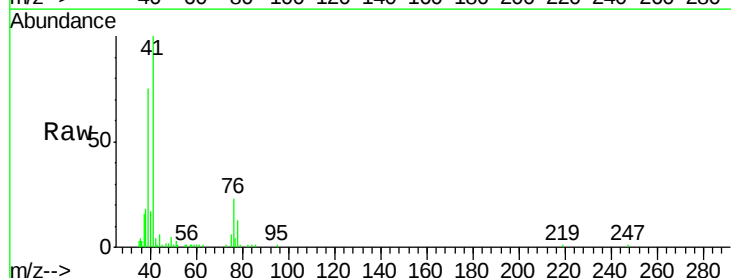
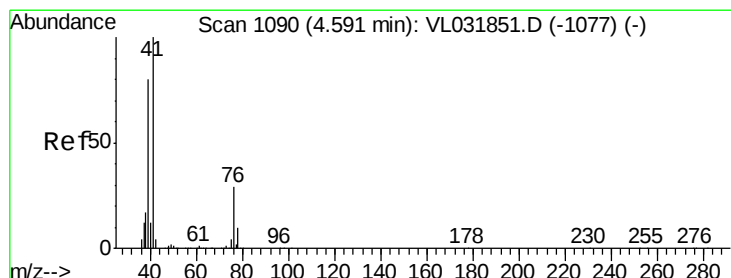
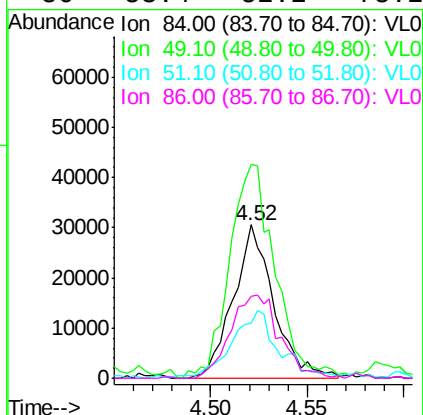




#20
Methylene Chloride
Concen: 0.61 ppbv
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

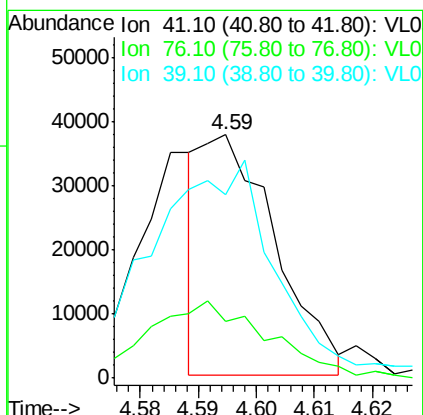
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

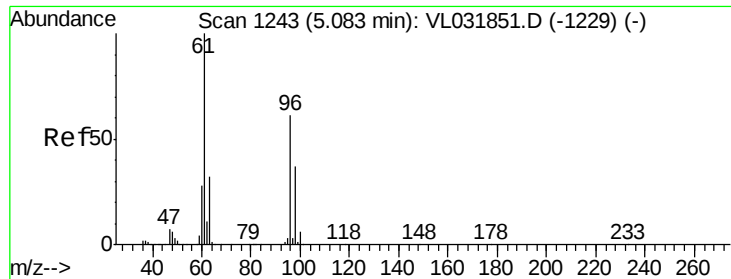
Tgt Ion: 84 Resp: 44522
Ion Ratio Lower Upper
84 100
49 137.2 123.3 184.9
51 34.2 35.0 52.6#
86 53.4 52.2 78.2



#21
Allyl Chloride
Concen: 0.28 ppbv
RT: 4.59 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Tgt Ion: 41 Resp: 33125
Ion Ratio Lower Upper
41 100
76 53.8 23.4 35.0#
39 151.7 65.4 98.2#





#22

trans-1,2-Dichloroethene

Concen: 0.53 ppbv

RT: 5.08 min Scan# 1243

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

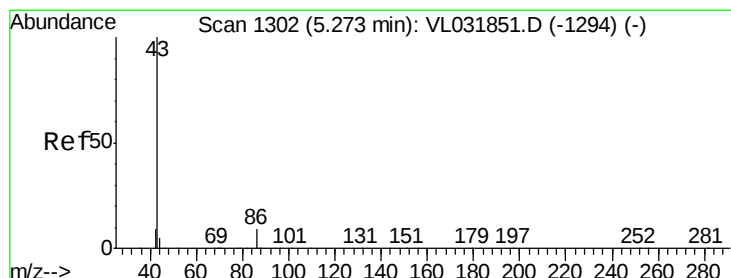
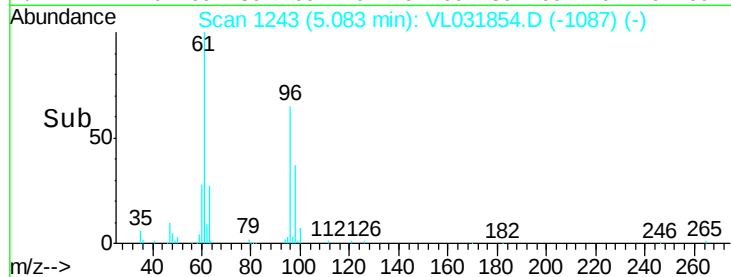
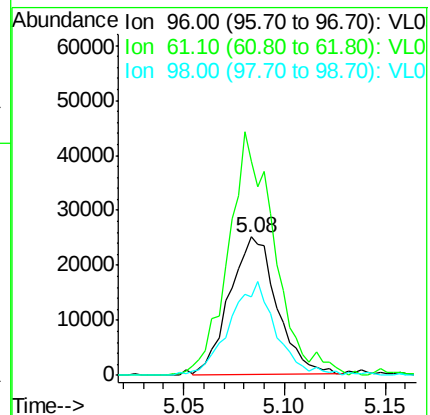
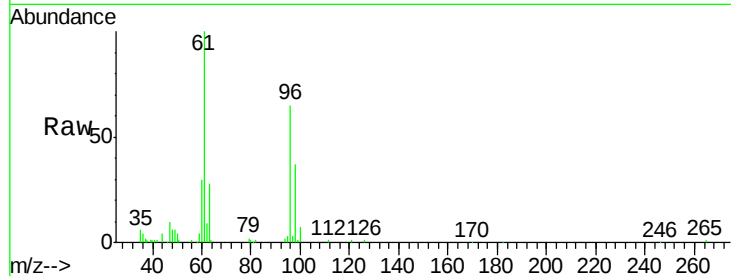
Tgt Ion: 96 Resp: 41369

Ion Ratio Lower Upper

96 100

61 152.8 130.2 195.2

98 57.3 48.2 72.2



#23

Vinyl Acetate

Concen: 0.40 ppbv

RT: 5.28 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Tgt Ion: 43 Resp: 97369

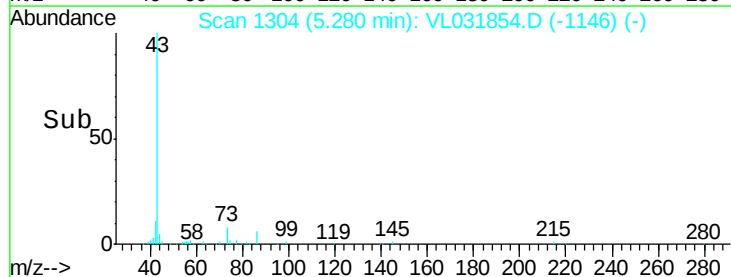
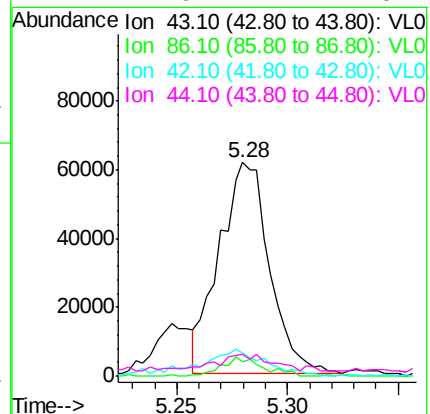
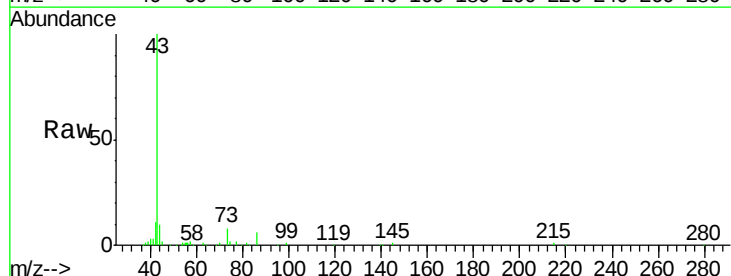
Ion Ratio Lower Upper

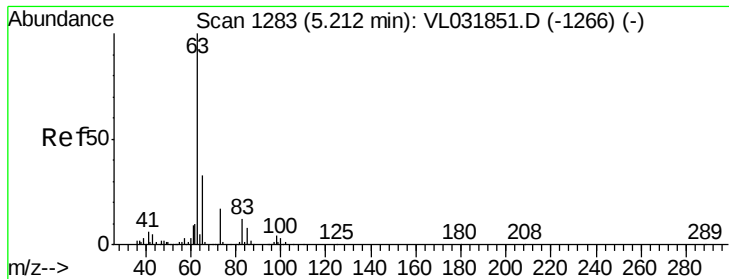
43 100

86 5.9 6.4 9.6#

42 10.8 8.2 12.2

44 7.9 4.1 6.1#





#24

1,1-Dichloroethane

Concen: 0.56 ppbv

RT: 5.21 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

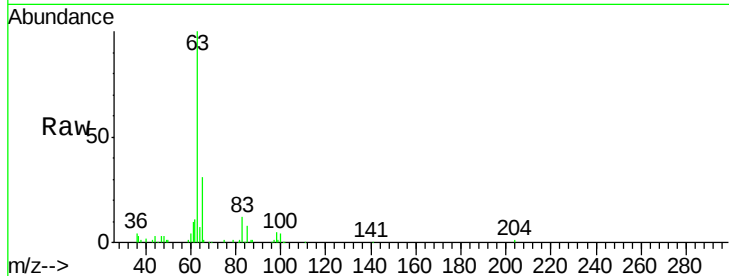
Tgt Ion: 63 Resp: 114694

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

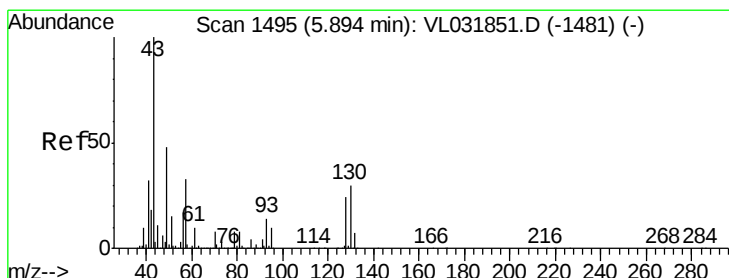
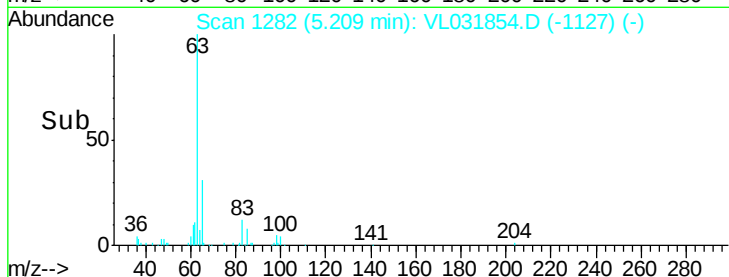
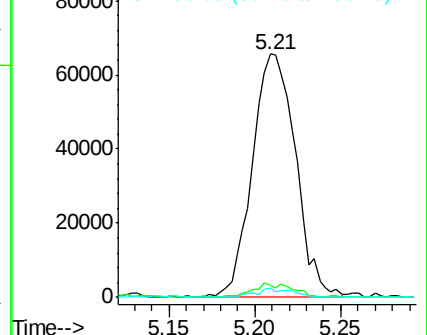
100 4.1 1.7 5.0



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: 0.49 ppbv

RT: 5.91 min Scan# 1499

Delta R.T. 0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Tgt Ion: 43 Resp: 165395

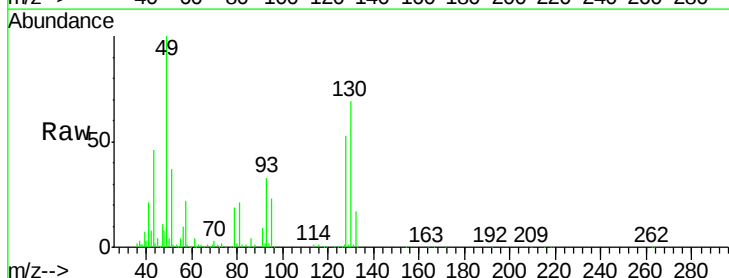
Ion Ratio Lower Upper

43 100

45 10.5 7.8 11.8

61 10.5 7.5 11.3

70 7.2 5.8 8.8

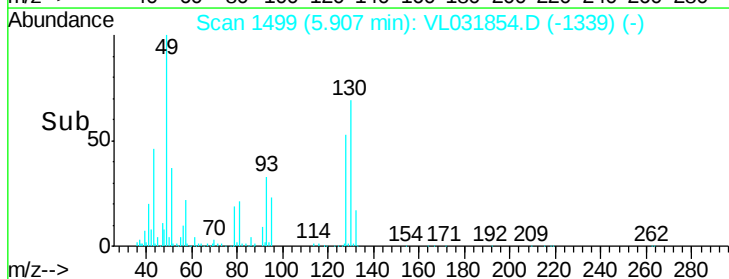
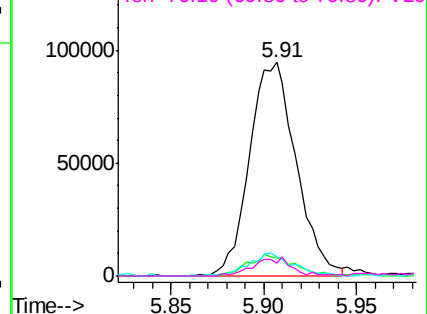


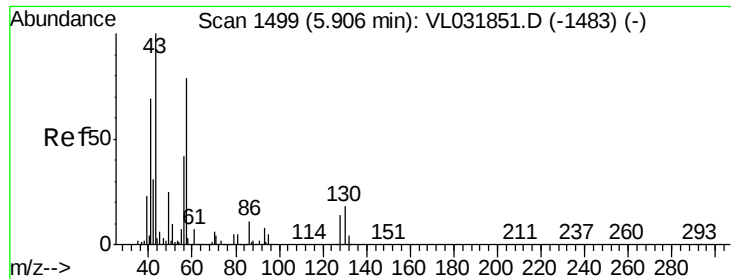
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

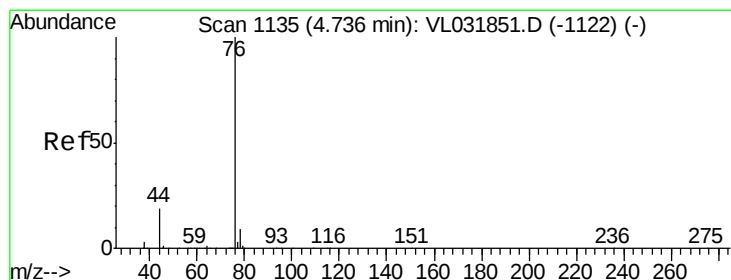
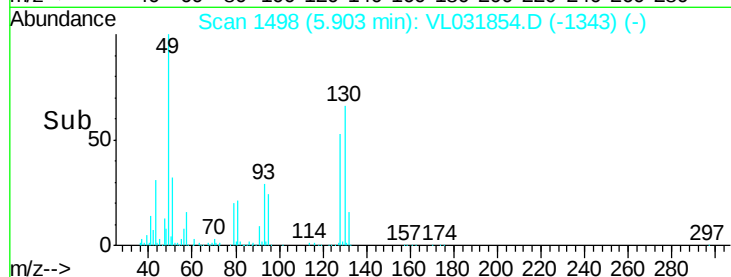
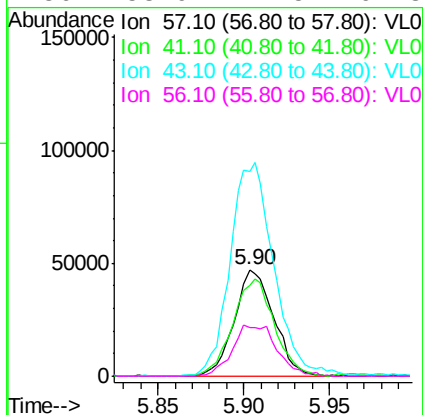
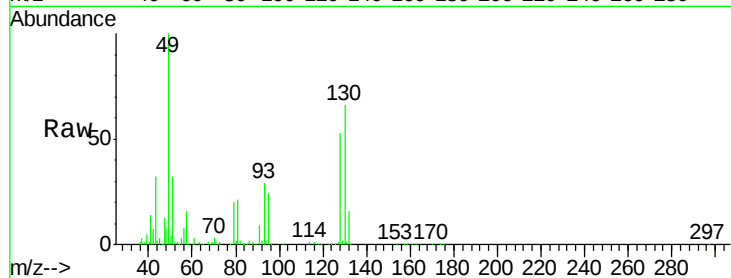




#26
Hexane
Concen: 0.48 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

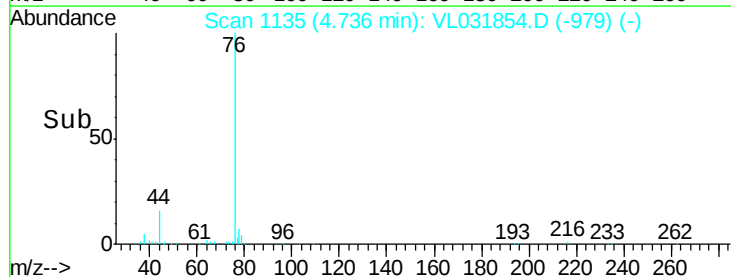
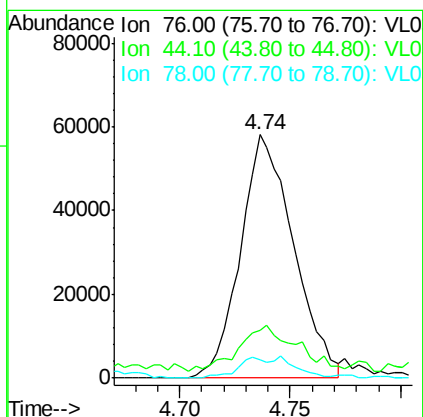
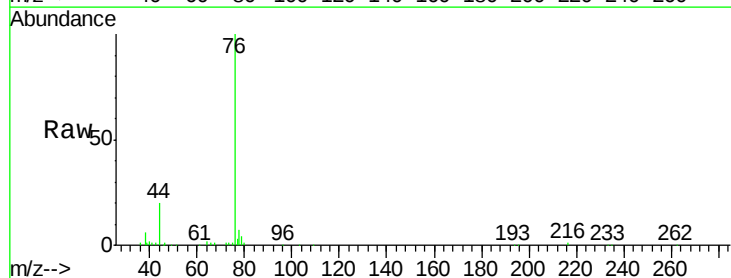
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

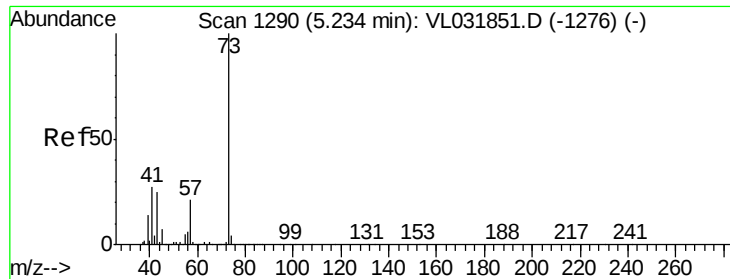
Tgt Ion:	57	Resp:	75420
Ion	Ratio	Lower	Upper
57	100		
41	98.4	71.7	107.5
43	225.2	172.0	258.0
56	53.9	41.5	62.3



#27
Carbon Disulfide
Concen: 0.57 ppbv
RT: 4.74 min Scan# 1135
Delta R.T. 0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Tgt Ion:	76	Resp:	96958
Ion	Ratio	Lower	Upper
76	100		
44	23.9	14.8	22.2#
78	9.4	7.4	11.2





#28

Methyl tert-Butyl Ether

Concen: 0.21 ppbv

RT: 5.25 min Scan# 1294

Delta R.T. 0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

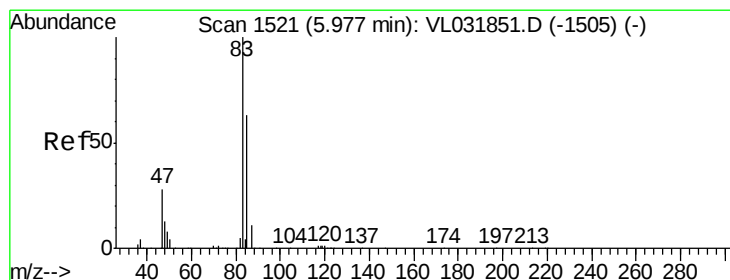
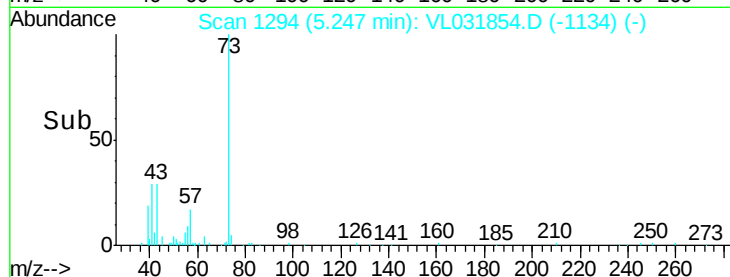
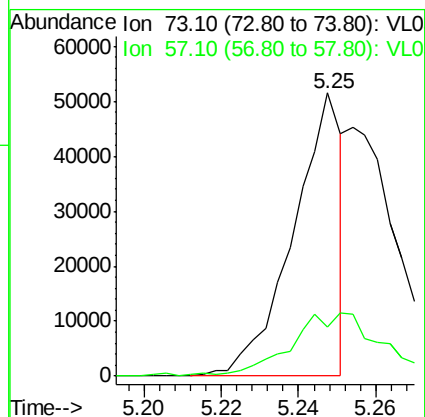
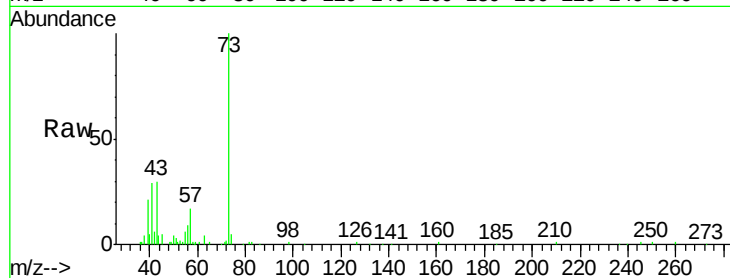
VSTDIC0.5

Tgt Ion: 73 Resp: 44961

Ion Ratio Lower Upper

73 100

57 0.0 17.3 25.9#



#29

Chloroform

Concen: 0.56 ppbv

RT: 5.97 min Scan# 1520

Delta R.T. -0.00 min

Lab File: VL031854.D

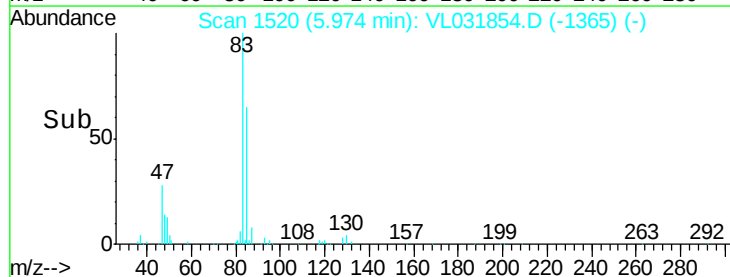
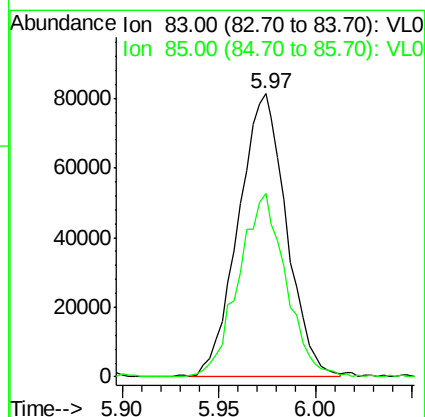
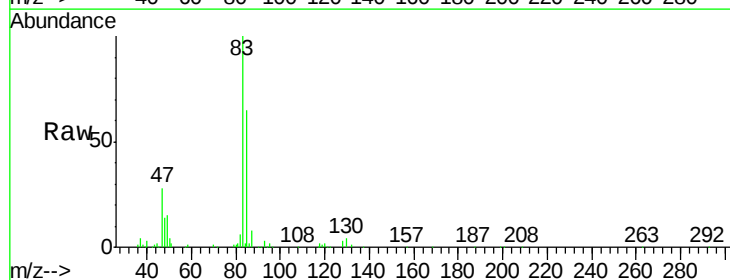
Acq: 12 Apr 2018 2:13

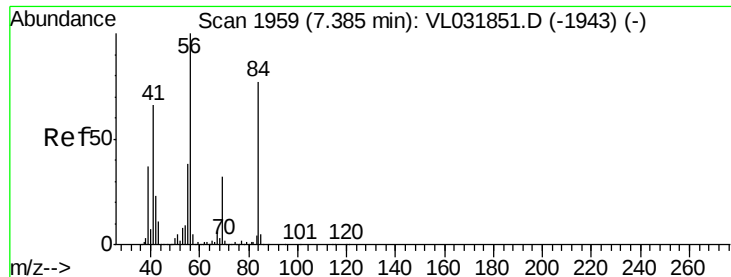
Tgt Ion: 83 Resp: 139067

Ion Ratio Lower Upper

83 100

85 64.8 50.4 75.6

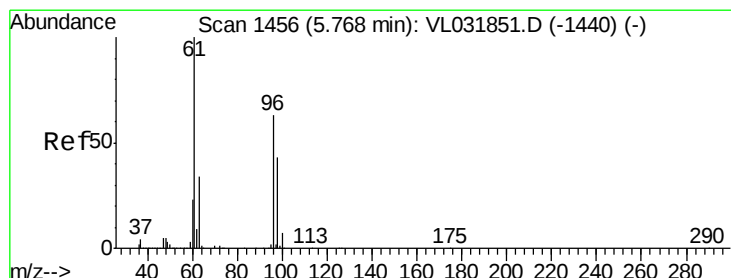
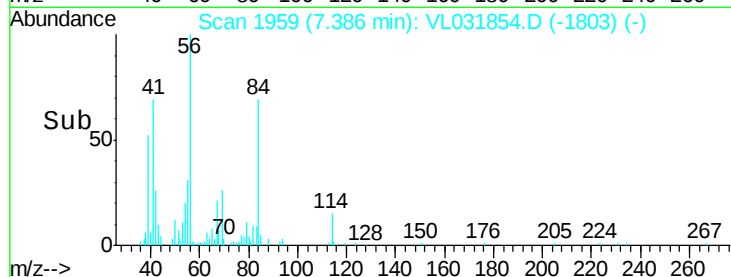
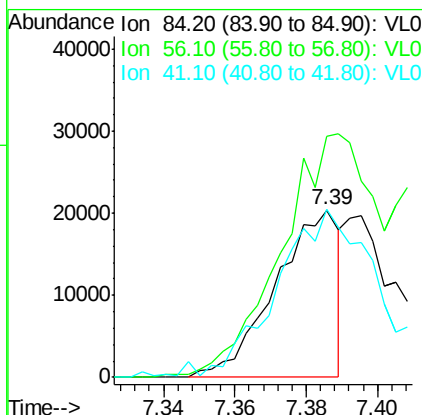
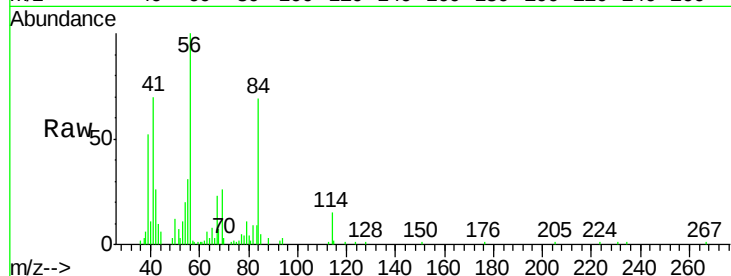




#30
Cyclohexane
Concen: 0.20 ppbv
RT: 7.39 min Scan# 1959
Delta R.T. 0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

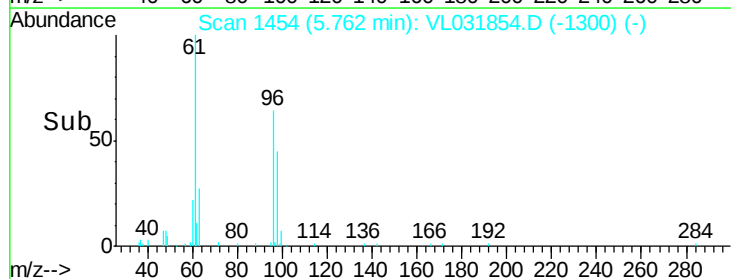
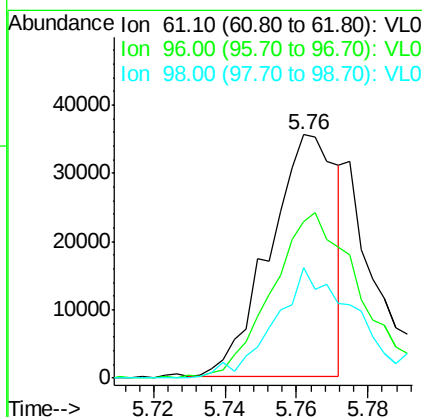
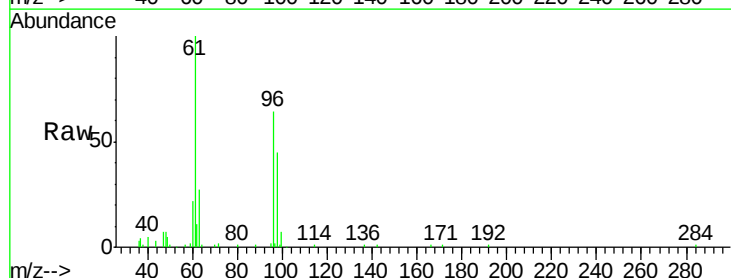
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

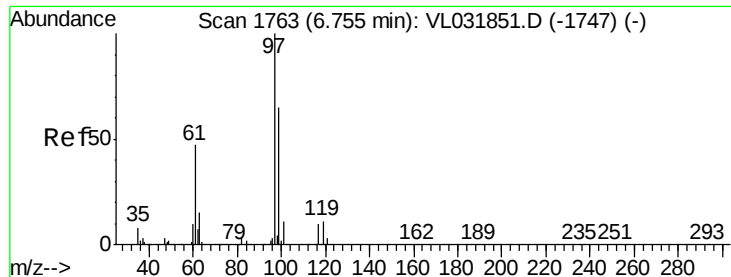
Tgt Ion: 84 Resp: 25188
Ion Ratio Lower Upper
84 100
56 195.7 108.6 162.8#
41 167.9 67.8 101.8#



#31
cis-1,2-Dichloroethene
Concen: 0.32 ppbv
RT: 5.76 min Scan# 1454
Delta R.T. -0.01 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Tgt Ion: 61 Resp: 46104
Ion Ratio Lower Upper
61 100
96 63.8 50.4 75.6
98 45.6 34.1 51.1





#32

1,1,1-Trichloroethane

Concen: 0.49 ppbv

RT: 6.75 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

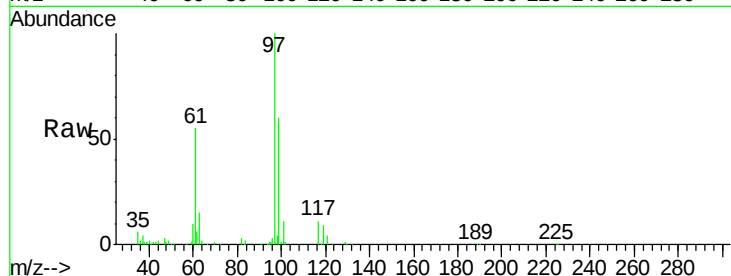
Tgt Ion: 97 Resp: 127840

Ion Ratio Lower Upper

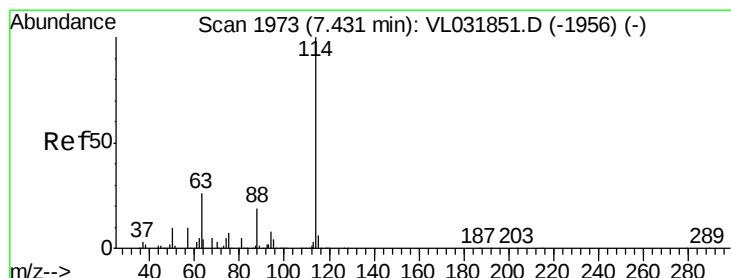
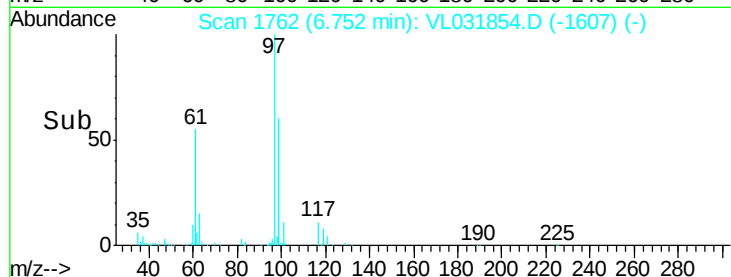
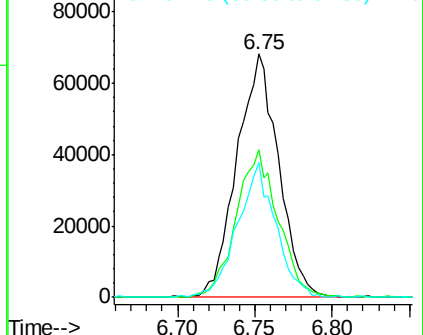
97 100

99 61.0 51.5 77.3

61 50.7 39.0 58.4



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: 7.42 min Scan# 1971

Delta R.T. -0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

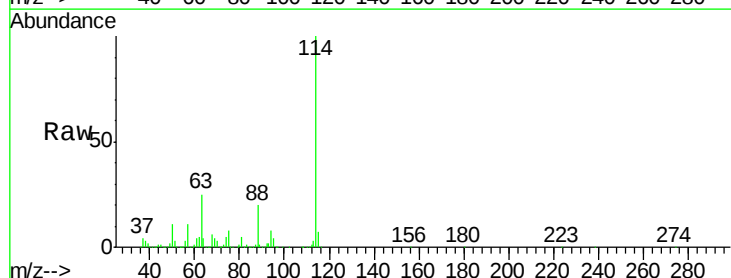
Tgt Ion: 114 Resp: 2806043

Ion Ratio Lower Upper

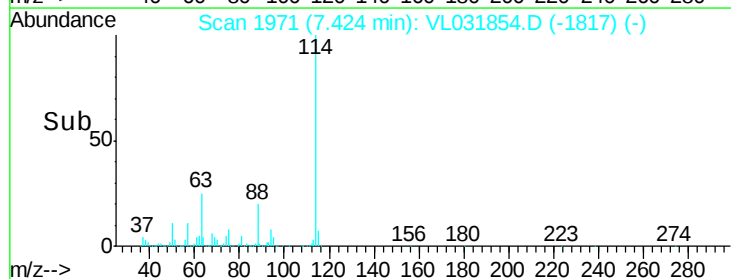
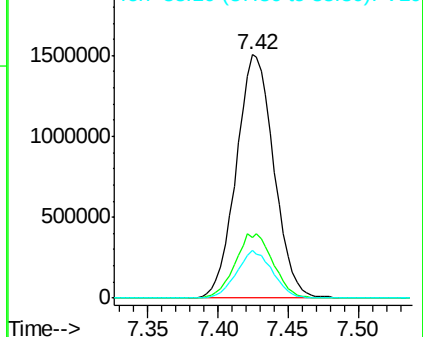
114 100

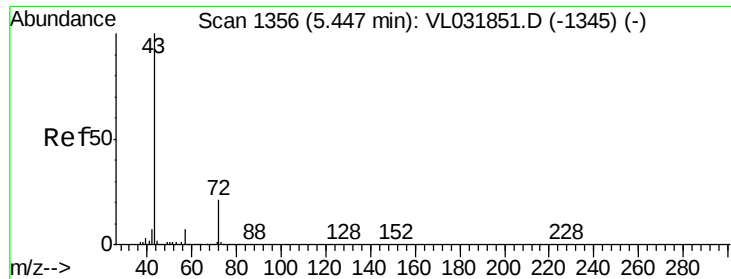
63 26.9 21.4 32.2

88 18.7 14.7 22.1



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

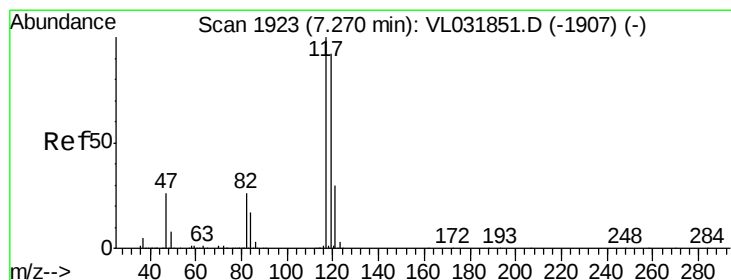
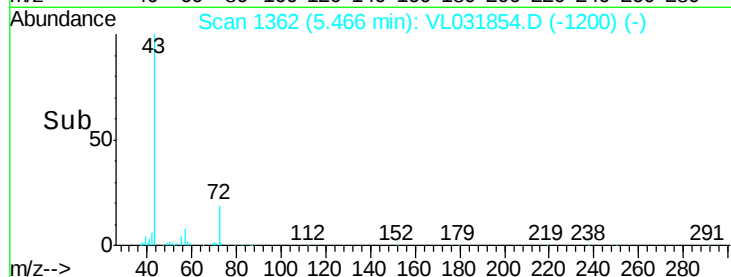
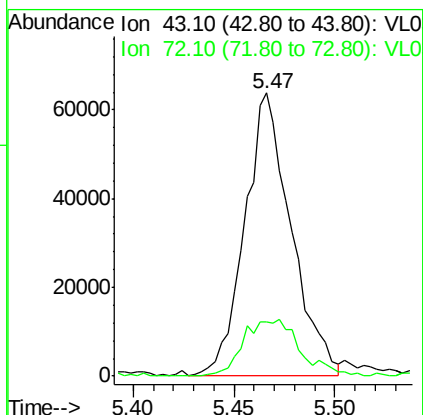
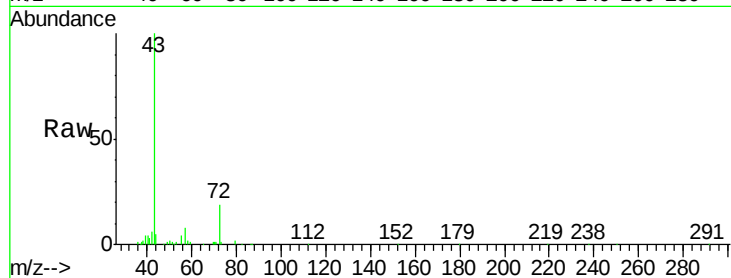




#34
2-Butanone
Concen: 0.53 ppbv
RT: 5.47 min Scan# 1362
Delta R.T. 0.02 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

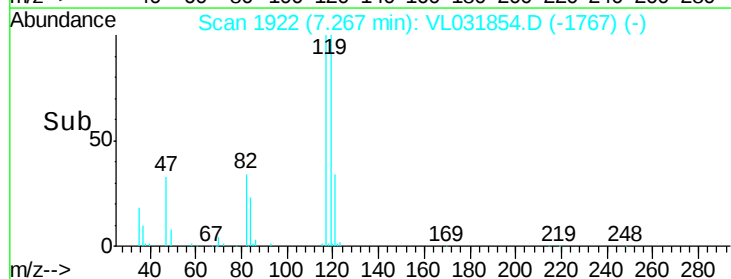
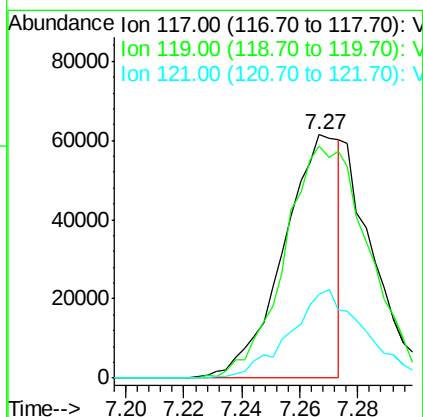
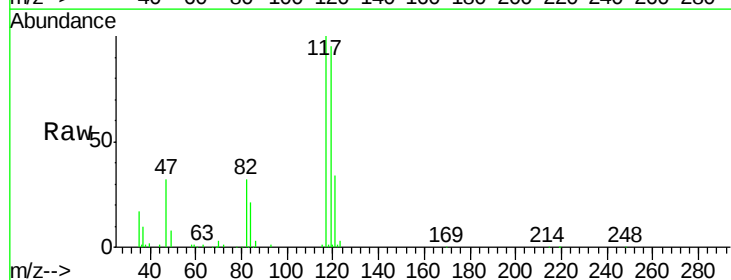
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

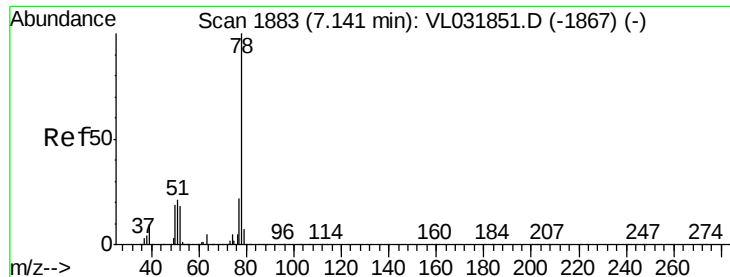
Tgt Ion: 43 Resp: 102811
Ion Ratio Lower Upper
43 100
72 24.9 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.39 ppbv
RT: 7.27 min Scan# 1922
Delta R.T. -0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Tgt Ion: 117 Resp: 81793
Ion Ratio Lower Upper
117 100
119 95.1 73.4 110.0
121 34.1 24.2 36.4





#36

Benzene

Concen: 0.47 ppbv

RT: 7.14 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

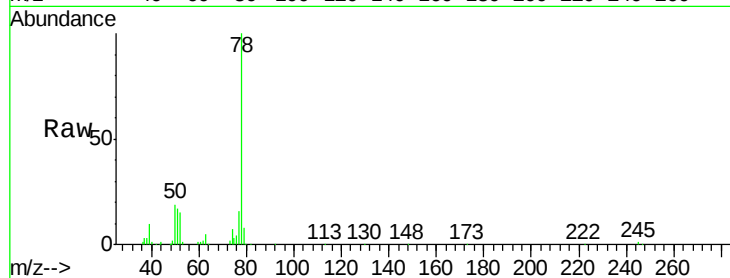
Tgt Ion: 78 Resp: 123233

Ion Ratio Lower Upper

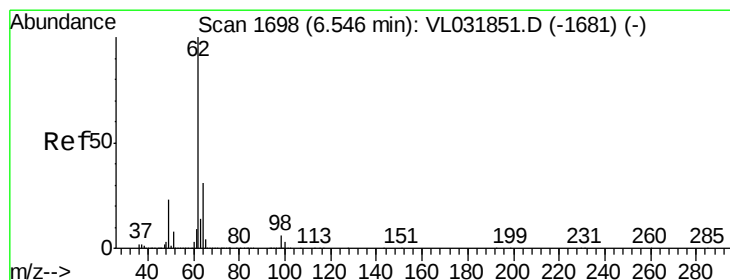
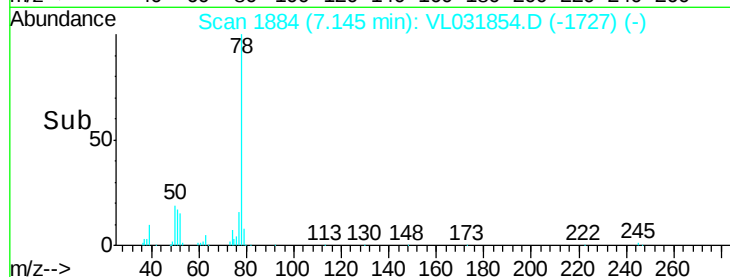
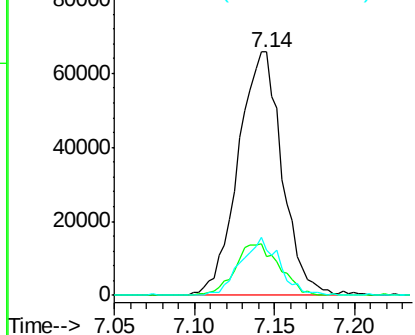
78 100

77 16.2 17.8 26.8#

50 18.6 15.0 22.6



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



#37

1,2-Dichloroethane

Concen: 0.39 ppbv

RT: 6.54 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VL031854.D

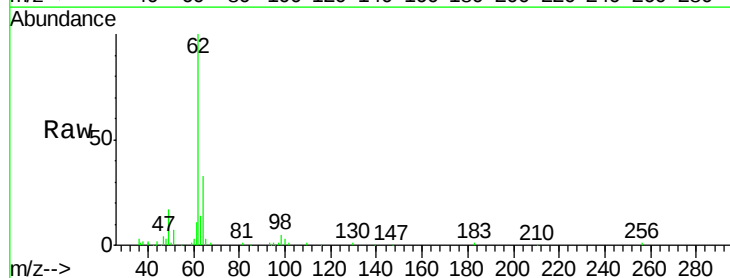
Acq: 12 Apr 2018 2:13

Tgt Ion: 62 Resp: 67839

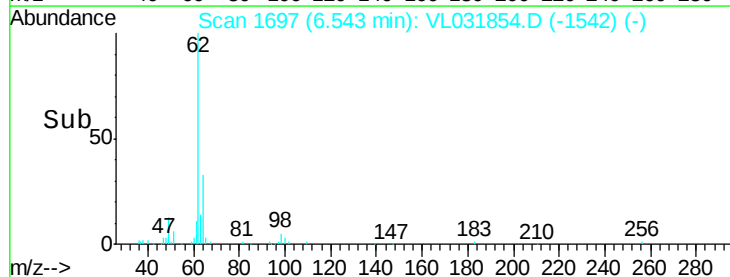
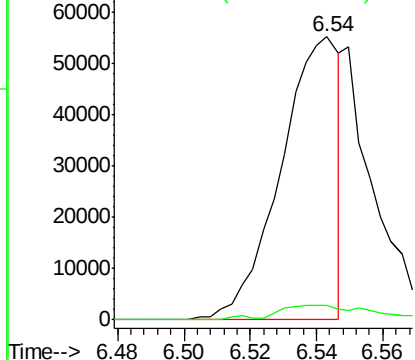
Ion Ratio Lower Upper

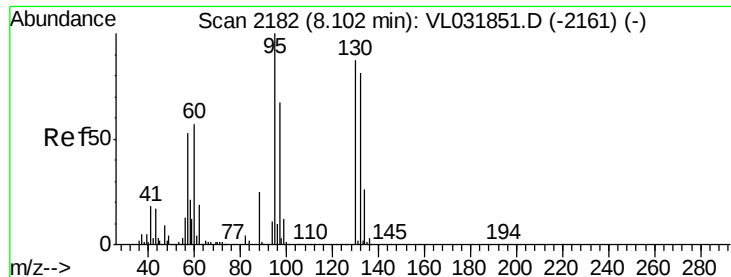
62 100

98 8.5 4.5 6.7#



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

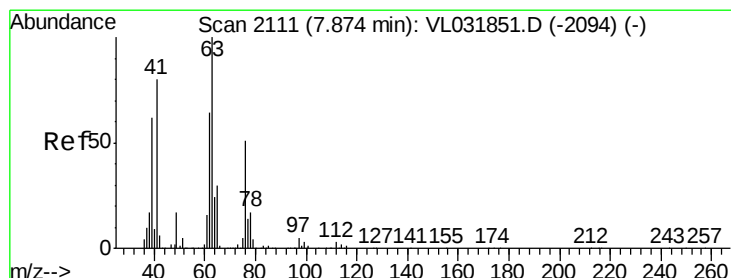
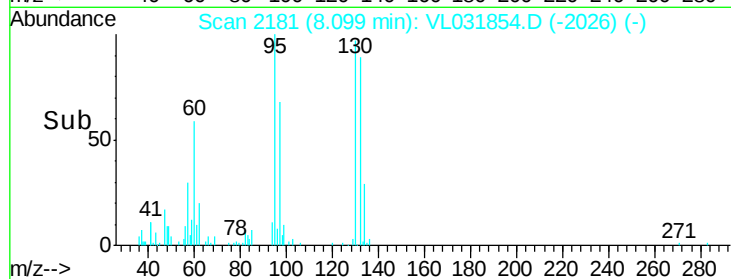
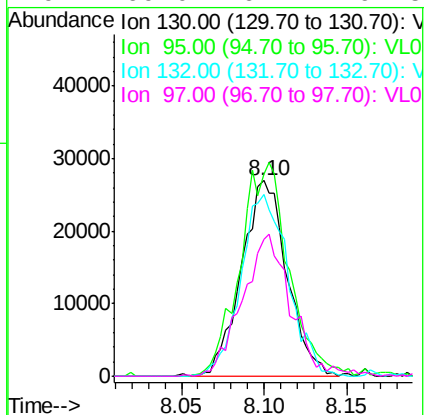
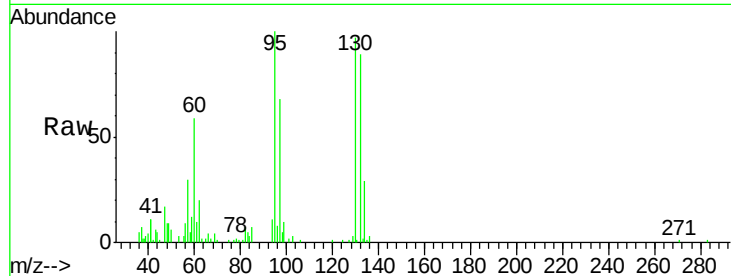




#38
 Trichloroethene
 Concen: 0.48 ppbv
 RT: 8.10 min Scan# 2181
 Delta R.T. -0.00 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

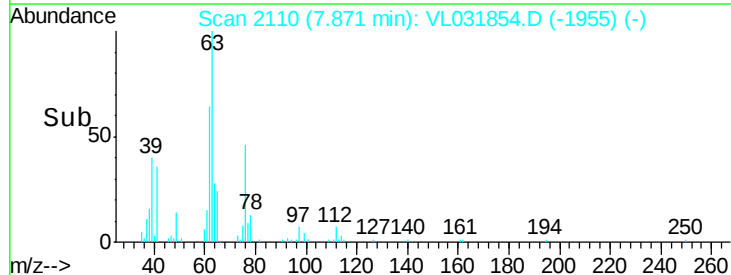
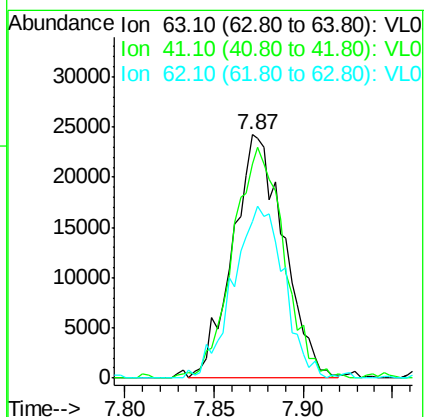
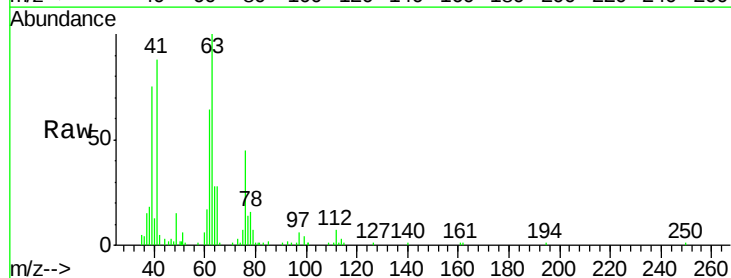
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

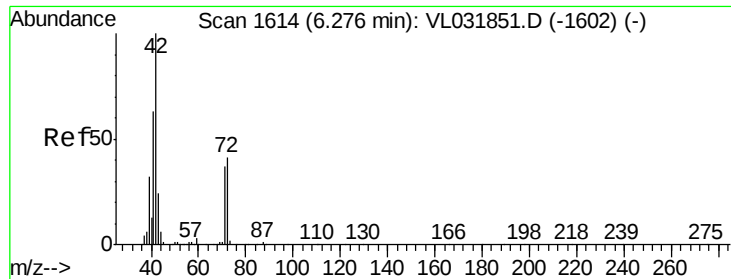
Tgt Ion:130 Resp: 51560
 Ion Ratio Lower Upper
 130 100
 95 102.2 92.1 138.1
 132 92.0 74.8 112.2
 97 69.0 61.7 92.5



#39
 1,2-Dichloropropane
 Concen: 0.51 ppbv
 RT: 7.87 min Scan# 2110
 Delta R.T. -0.00 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

Tgt Ion: 63 Resp: 48249
 Ion Ratio Lower Upper
 63 100
 41 86.0 64.1 96.1
 62 63.4 51.5 77.3





#41

Tetrahydrofuran

Concen: 0.18 ppbv

RT: 6.30 min Scan# 1622

Delta R.T. 0.03 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

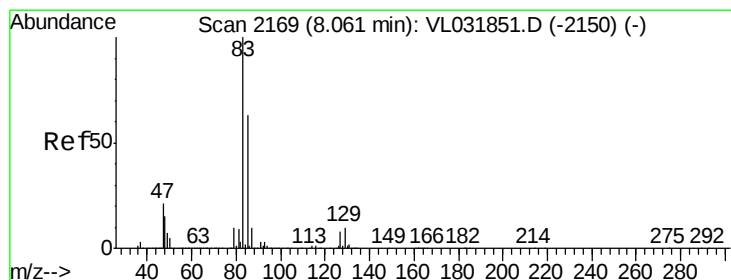
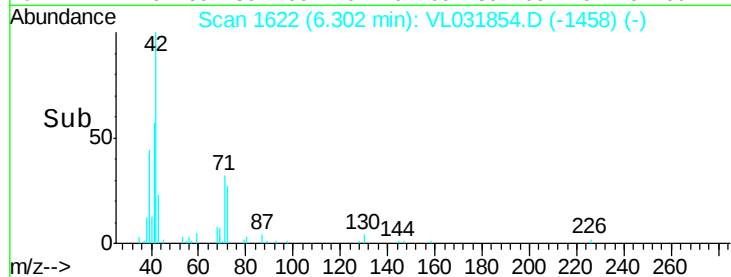
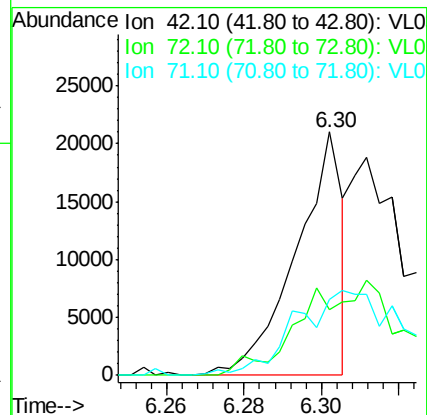
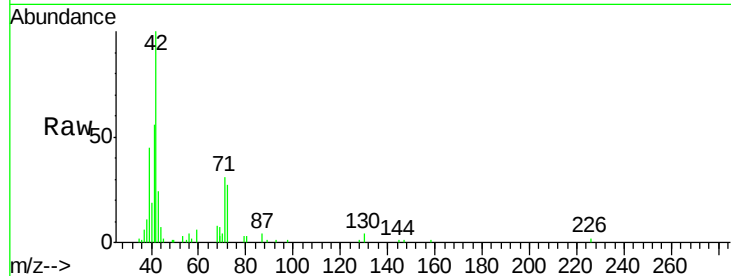
Tgt Ion: 42 Resp: 17527

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

71 89.9 31.3 46.9#



#42

Bromodichloromethane

Concen: 0.57 ppbv

RT: 8.05 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

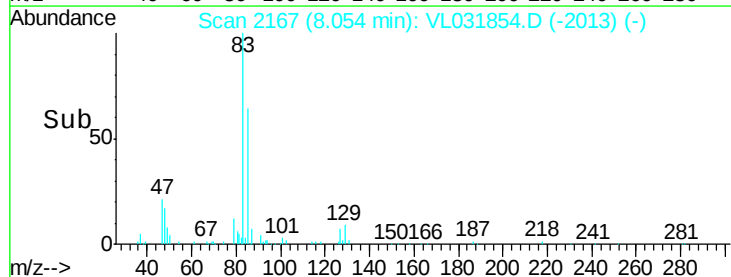
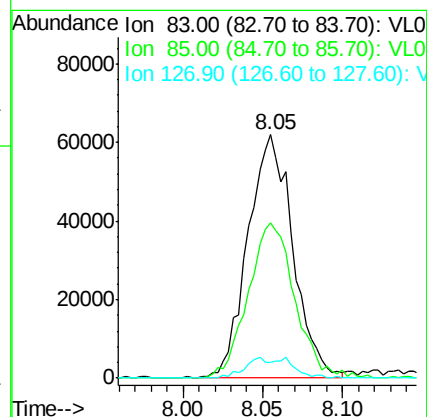
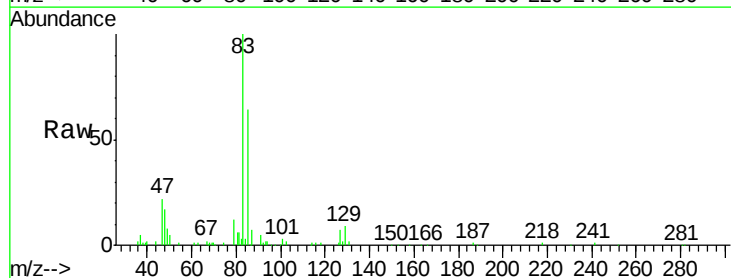
Tgt Ion: 83 Resp: 119095

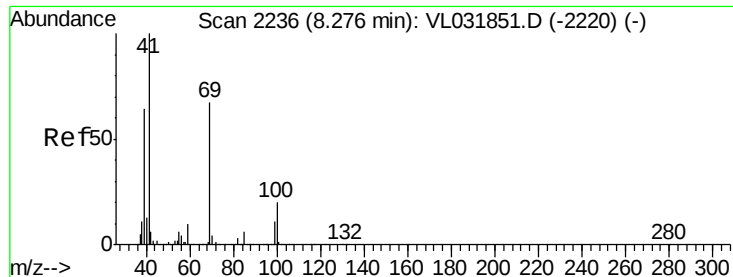
Ion Ratio Lower Upper

83 100

85 63.7 50.3 75.5

127 6.7 6.1 9.1

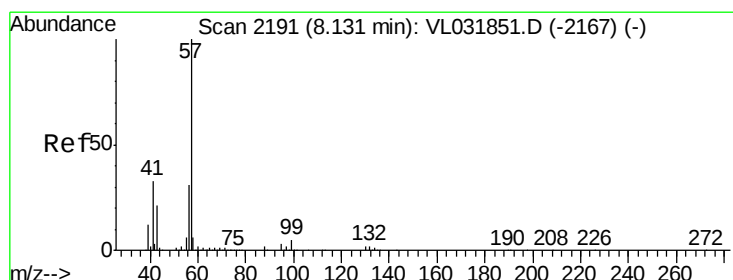
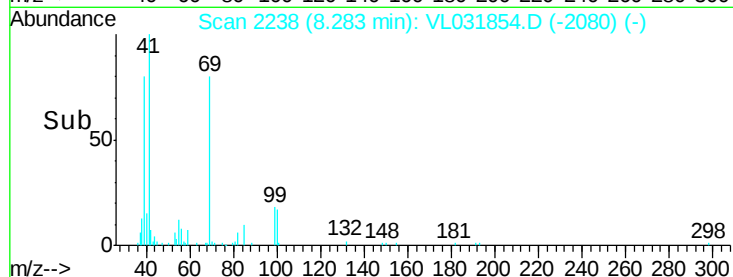
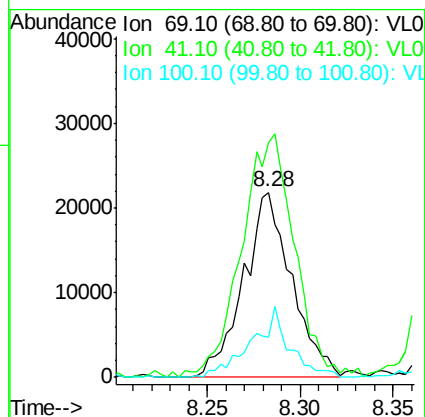
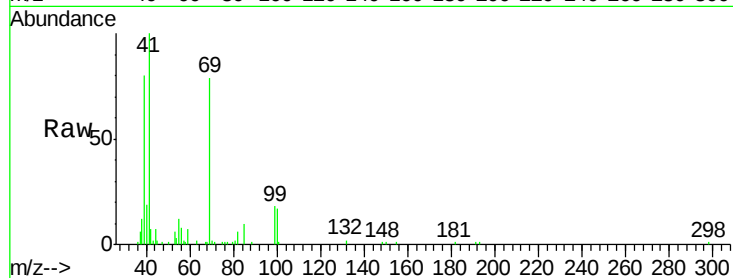




#43
Methyl Methacrylate
Concen: 0.42 ppbv
RT: 8.28 min Scan# 2238
Delta R.T. 0.01 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

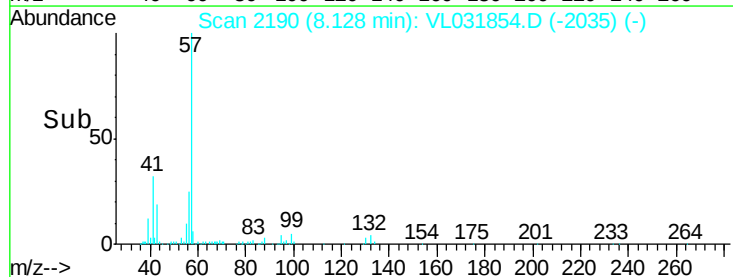
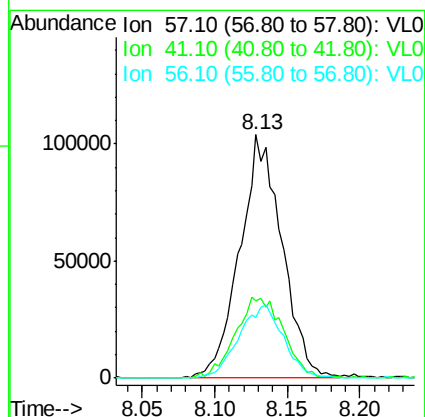
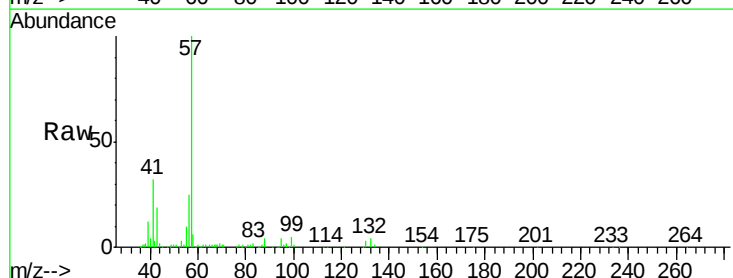
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

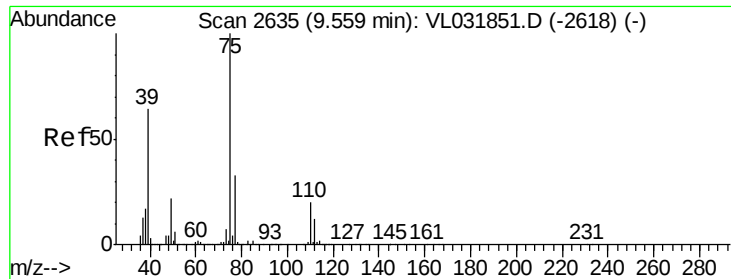
Tgt Ion: 69 Resp: 39617
Ion Ratio Lower Upper
69 100
41 146.5 119.8 179.8
100 29.9 24.9 37.3



#44
2,2,4-Trimethylpentane
Concen: 0.49 ppbv
RT: 8.13 min Scan# 2190
Delta R.T. -0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Tgt Ion: 57 Resp: 208827
Ion Ratio Lower Upper
57 100
41 38.0 26.5 39.7
56 32.1 24.2 36.4

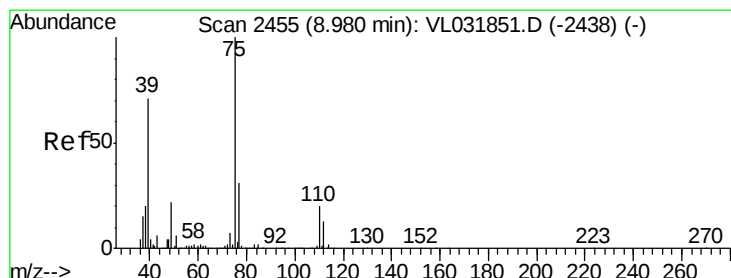
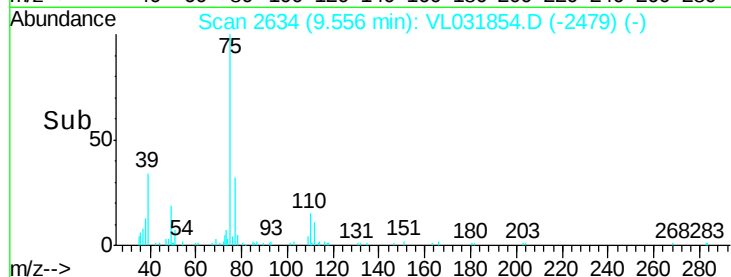
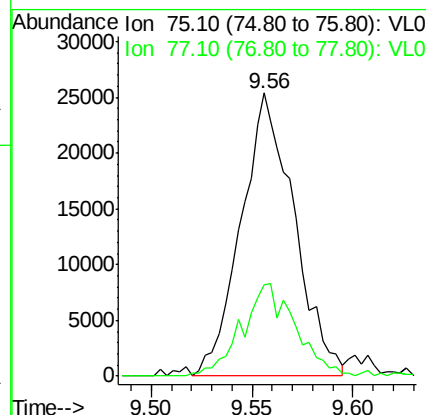
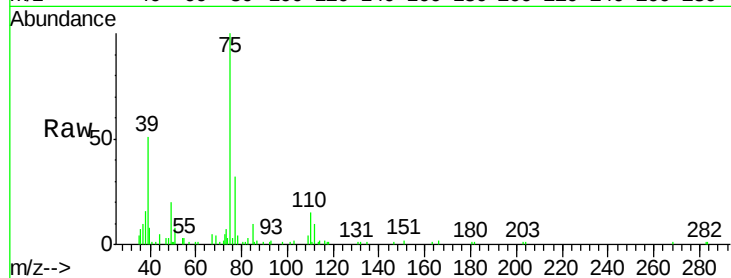




#45
 t-1,3-Dichloropropene
 Concen: 0.37 ppbv
 RT: 9.56 min Scan# 2634
 Delta R.T. -0.00 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

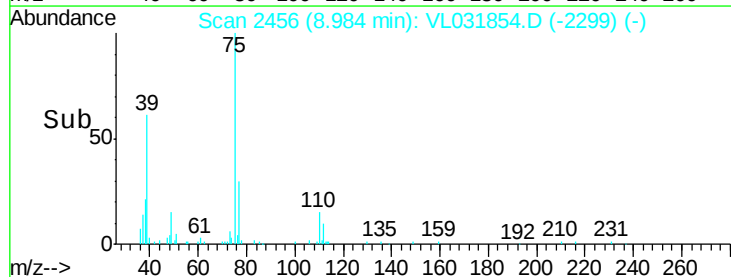
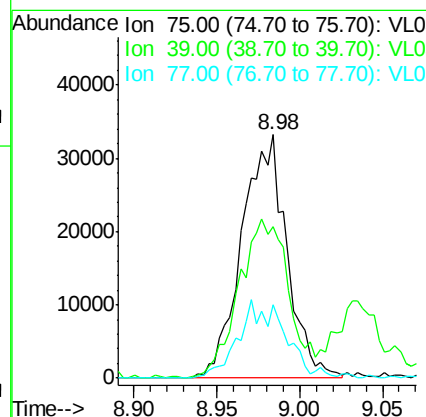
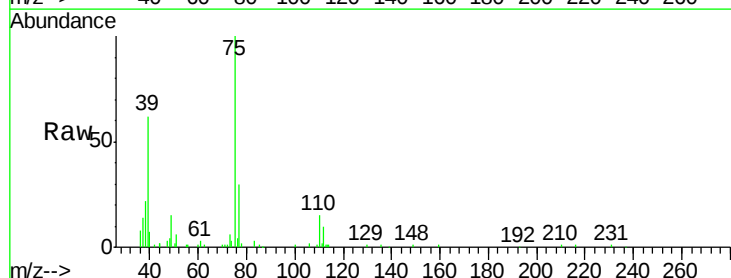
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

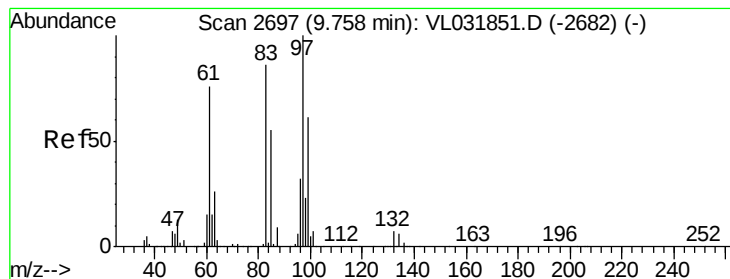
Tgt Ion: 75 Resp: 46712
 Ion Ratio Lower Upper
 75 100
 77 32.1 26.2 39.4



#46
 cis-1,3-Dichloropropene
 Concen: 0.40 ppbv
 RT: 8.98 min Scan# 2456
 Delta R.T. 0.00 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

Tgt Ion: 75 Resp: 62665
 Ion Ratio Lower Upper
 75 100
 39 61.3 56.9 85.3
 77 30.1 25.1 37.7





#47

1,1,2-Trichloroethane

Concen: 0.28 ppbv

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 30673

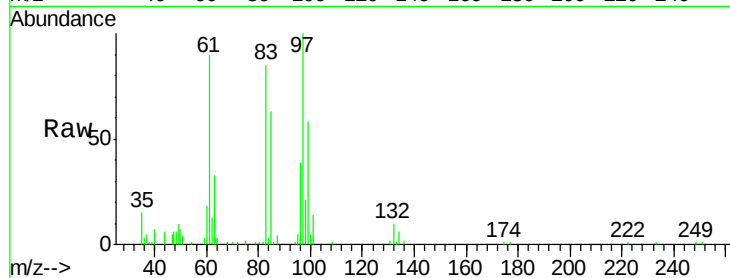
Ion Ratio Lower Upper

97 100

83 88.3 68.4 102.6

85 63.7 44.5 66.7

99 57.7 48.6 73.0

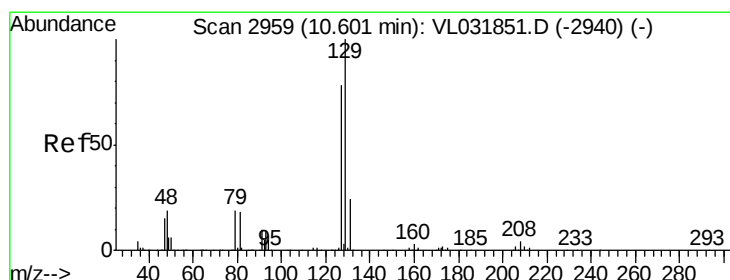
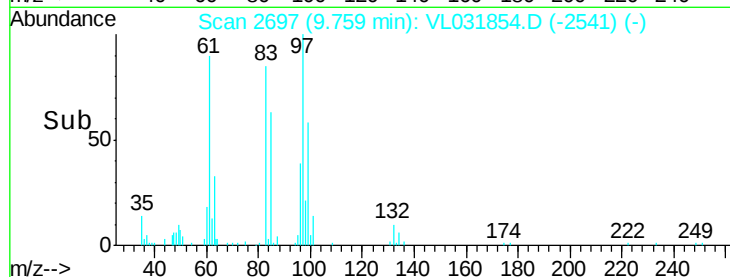
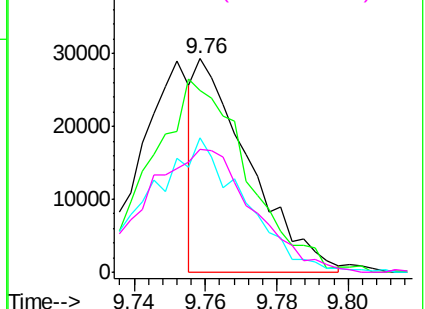


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.53 ppbv

RT: 10.60 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VL031854.D

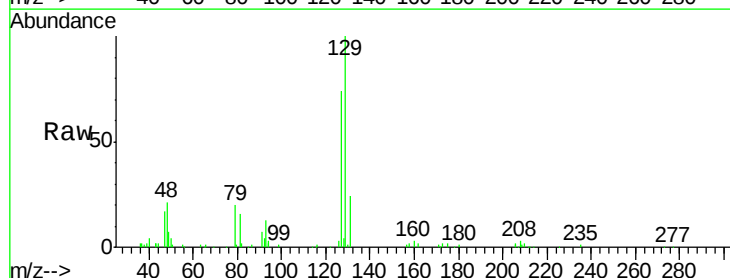
Acq: 12 Apr 2018 2:13

Tgt Ion: 129 Resp: 89863

Ion Ratio Lower Upper

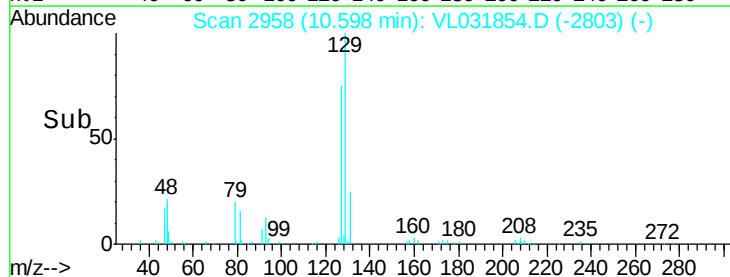
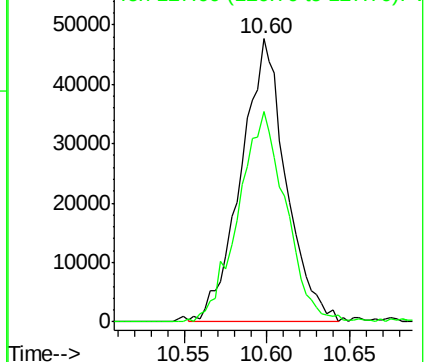
129 100

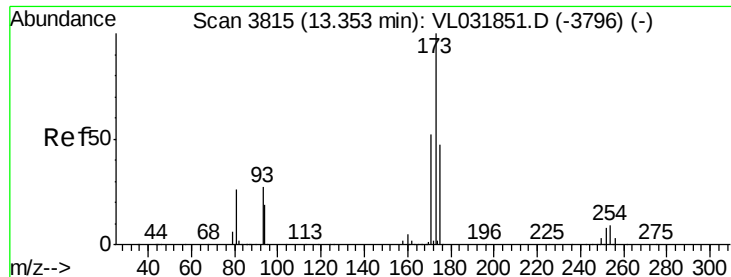
127 78.5 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.28 ppbv

RT: 13.35 min Scan# 3813

Delta R.T. -0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

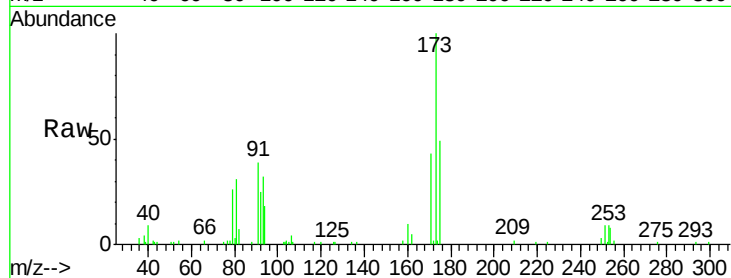
Tgt Ion: 173 Resp: 34510

Ion Ratio Lower Upper

173 100

175 0.0 39.4 59.0#

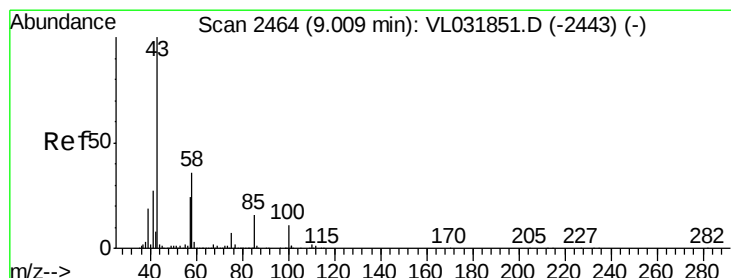
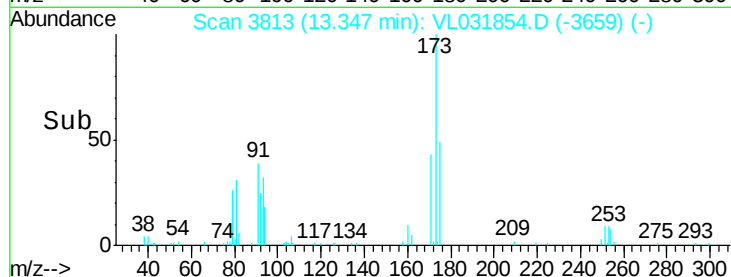
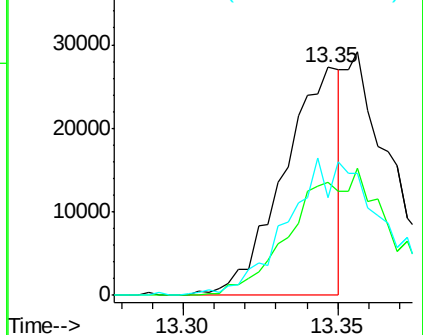
171 102.3 42.2 63.2#



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: 0.46 ppbv

RT: 9.04 min Scan# 2472

Delta R.T. 0.03 min

Lab File: VL031854.D

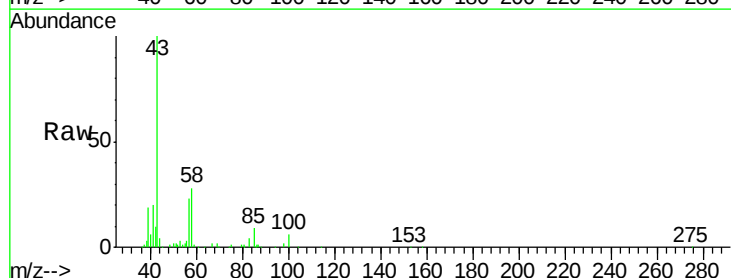
Acq: 12 Apr 2018 2:13

Tgt Ion: 43 Resp: 102549

Ion Ratio Lower Upper

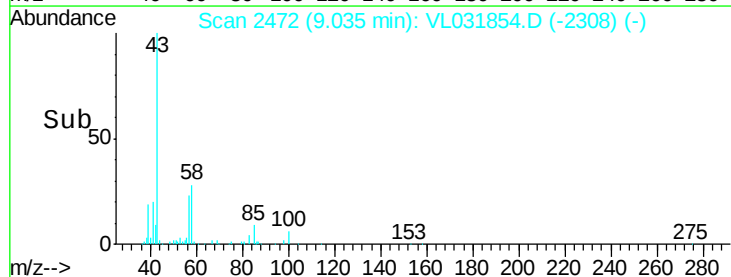
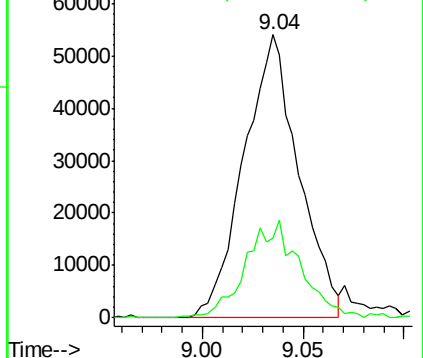
43 100

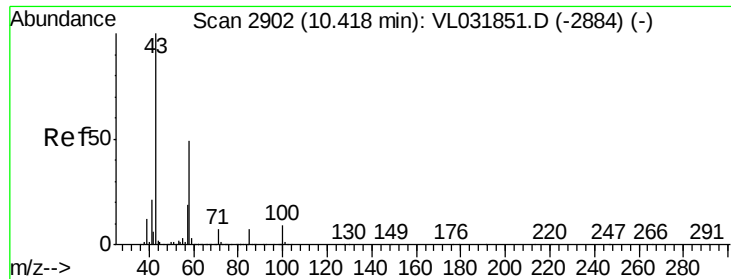
58 34.0 29.1 43.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.36 ppbv

RT: 10.44 min Scan# 2909

Delta R.T. 0.02 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

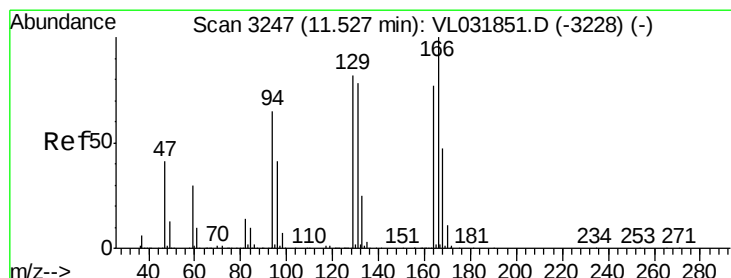
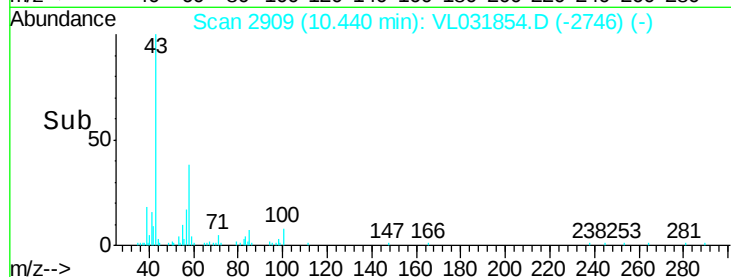
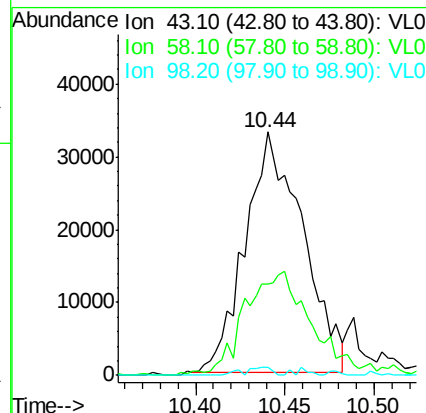
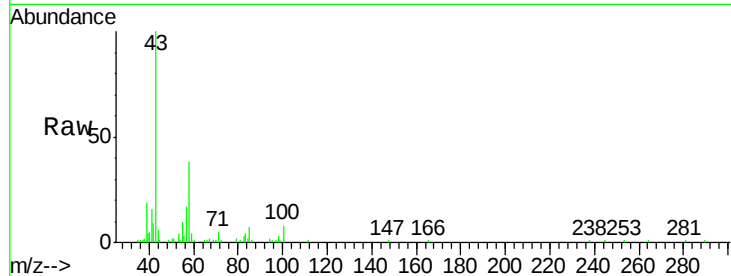
MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 74517

Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.4	57.6#
98	1.6	0.2	0.4#



#52

Tetrachloroethene

Concen: 0.32 ppbv

RT: 11.52 min Scan# 3245

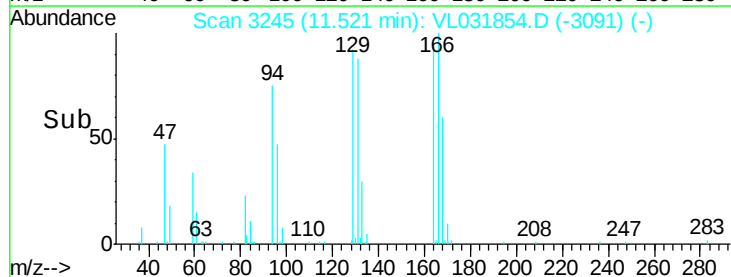
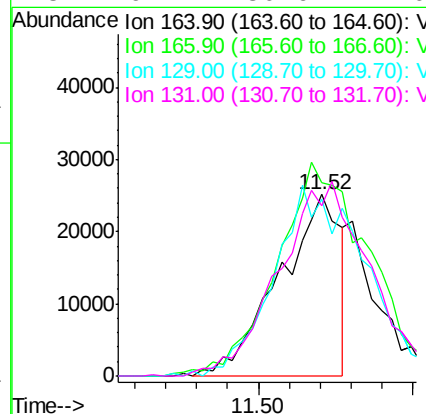
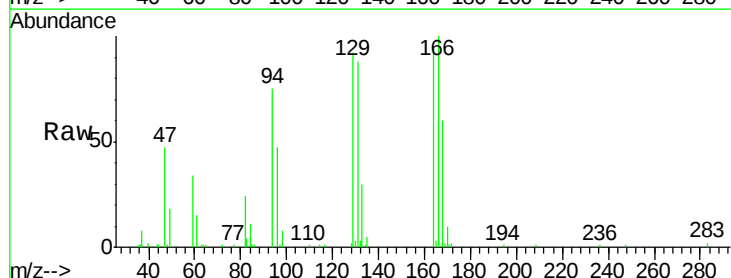
Delta R.T. -0.01 min

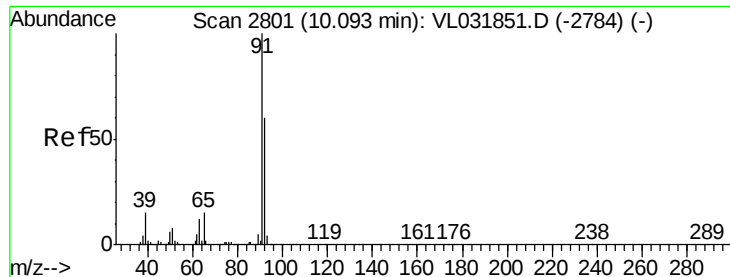
Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Tgt Ion: 164 Resp: 34491

Ion	Ratio	Lower	Upper
164	100		
166	103.2	103.3	154.9#
129	94.6	84.2	126.4
131	91.1	80.6	121.0





#53

Toluene

Concen: 0.38 ppbv

RT: 10.10 min Scan# 2802

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

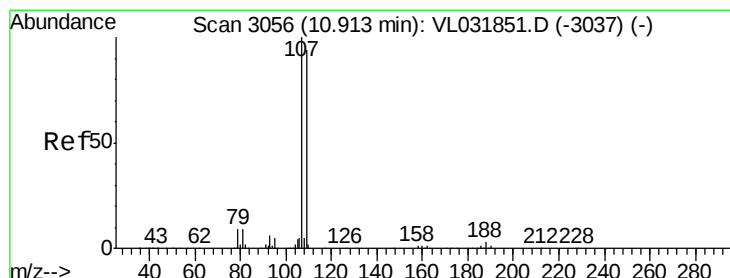
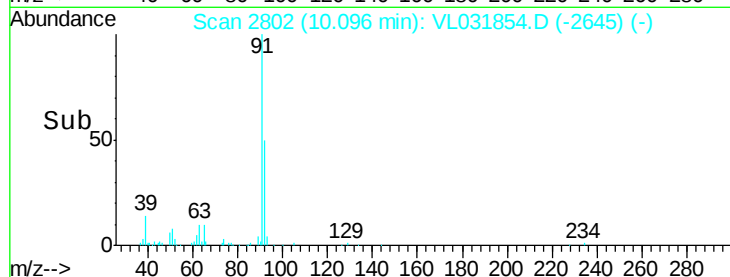
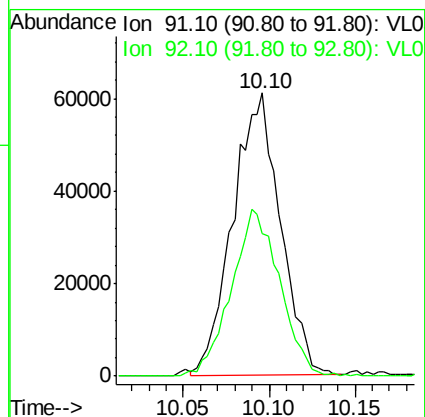
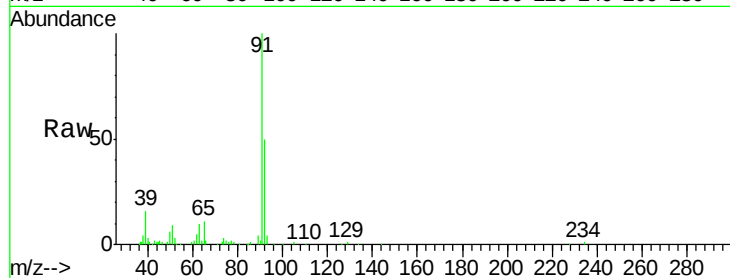
VSTDIC0.5

Tgt Ion: 91 Resp: 117296

Ion Ratio Lower Upper

91 100

92 59.9 47.2 70.8



#54

1,2-Dibromoethane

Concen: 0.49 ppbv

RT: 10.91 min Scan# 3055

Delta R.T. -0.00 min

Lab File: VL031854.D

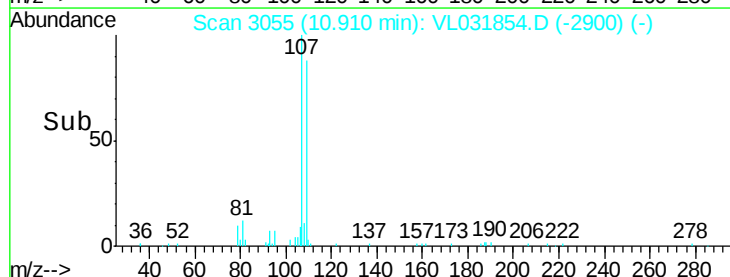
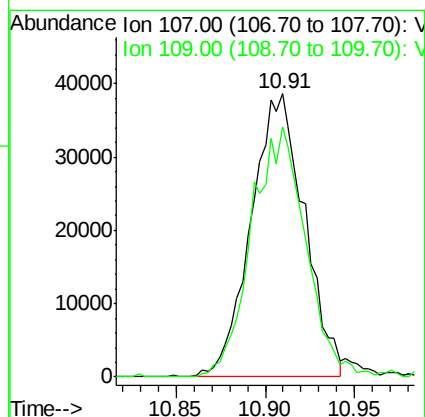
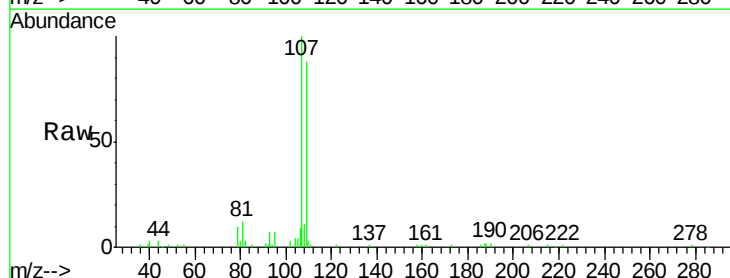
Acq: 12 Apr 2018 2:13

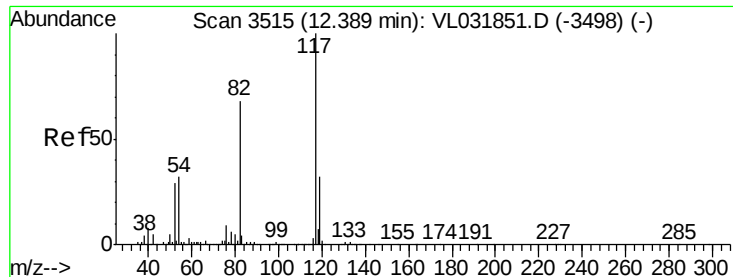
Tgt Ion: 107 Resp: 80616

Ion Ratio Lower Upper

107 100

109 88.3 75.1 112.7





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.39 min Scan# 3515

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

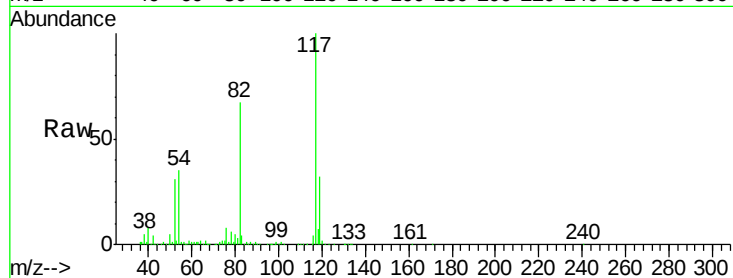
Tgt Ion:117 Resp: 2705537

Ion Ratio Lower Upper

117 100

82 68.0 52.9 79.3

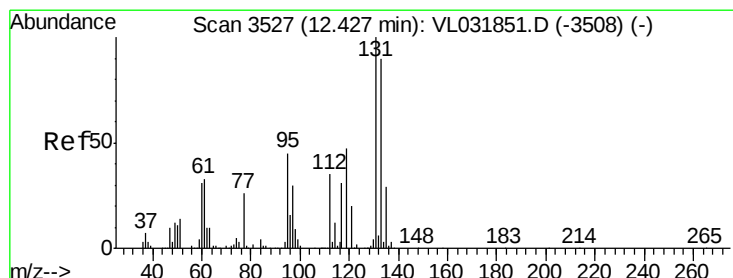
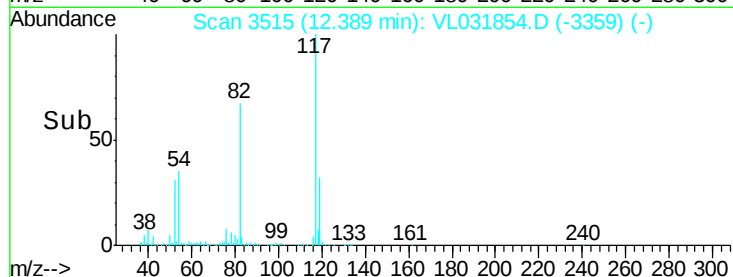
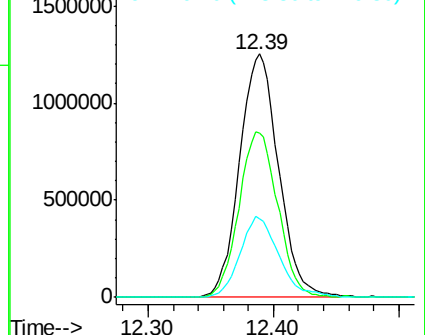
119 33.2 43.8 65.6#



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: 0.57 ppbv

RT: 12.42 min Scan# 3526

Delta R.T. -0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

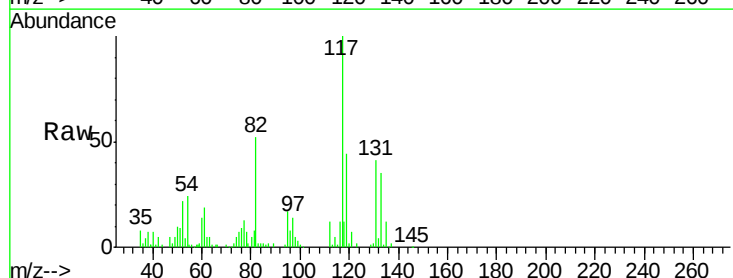
Tgt Ion:131 Resp: 70934

Ion Ratio Lower Upper

131 100

133 97.9 75.9 113.9

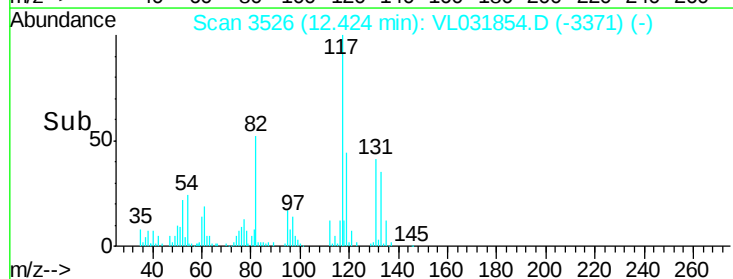
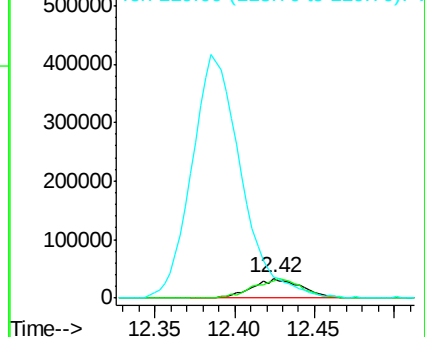
119 1271.3 106.7 160.1#

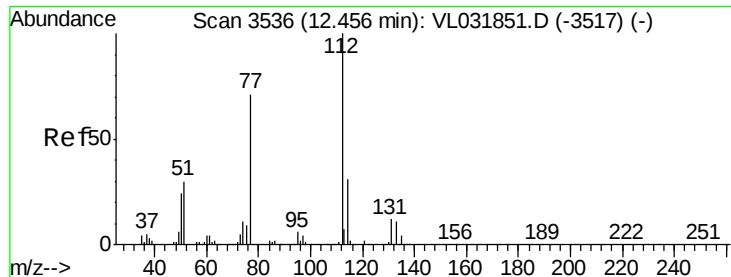


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

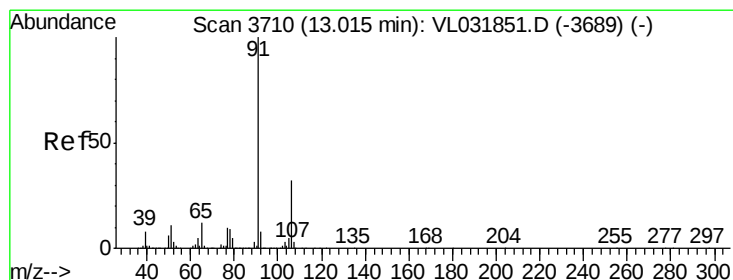
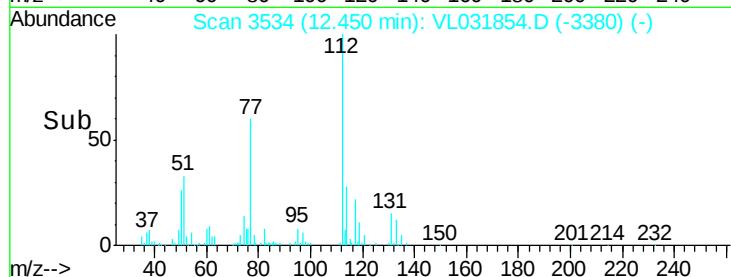
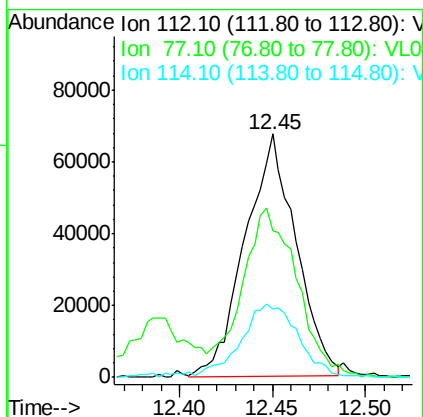
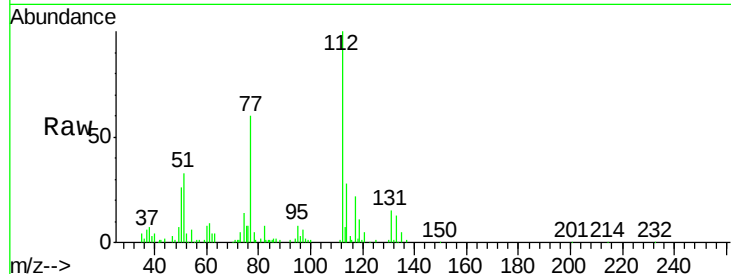




#57
Chlorobenzene
Concen: 0.53 ppbv
RT: 12.45 min Scan# 3534
Delta R.T. -0.01 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

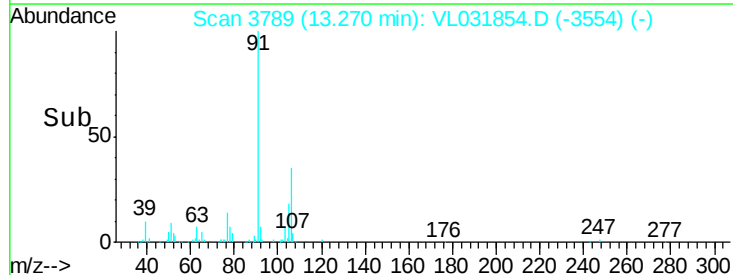
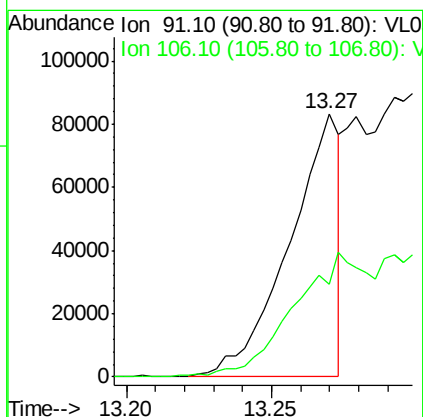
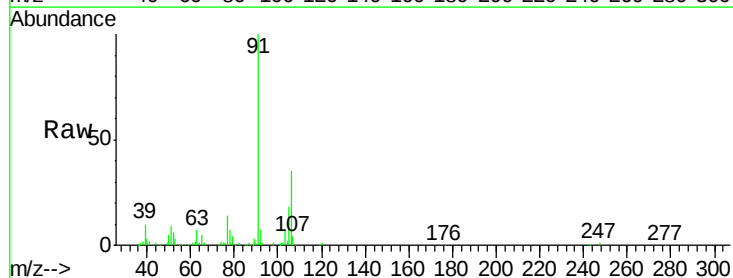
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

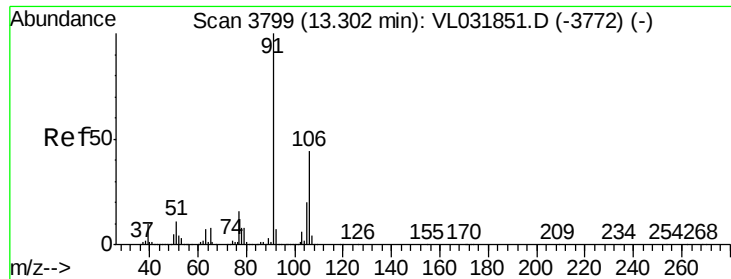
Tgt Ion: 112 Resp: 128234
Ion Ratio Lower Upper
112 100
77 55.2 58.2 87.2#
114 27.1 28.4 34.7#



#58
Ethyl Benzene
Concen: 0.23 ppbv
RT: 13.27 min Scan# 3789
Delta R.T. 0.25 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Tgt Ion: 91 Resp: 100349
Ion Ratio Lower Upper
91 100
106 35.1 25.4 38.0

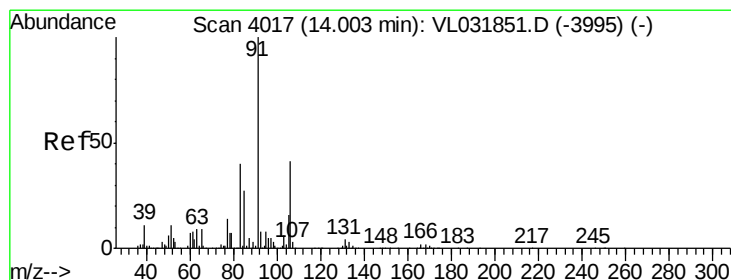
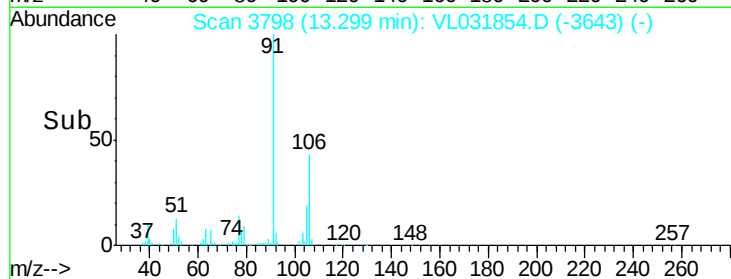
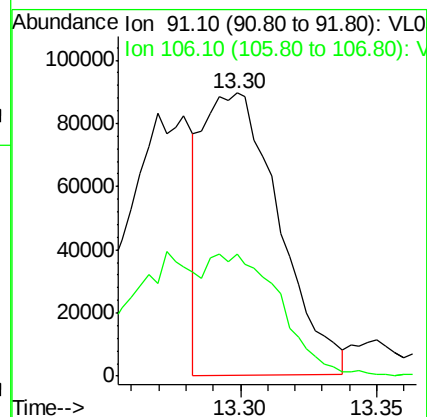
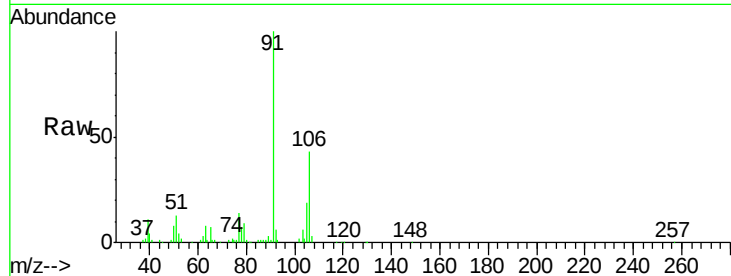




#59
m/p-Xylene
Concen: 0.49 ppbv
RT: 13.30 min Scan# 3798
Delta R.T. -0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

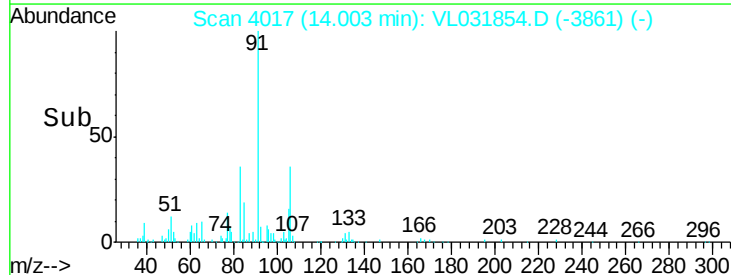
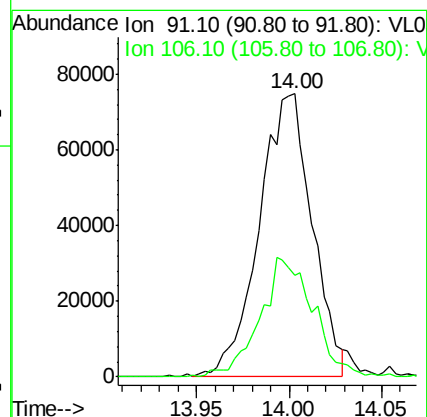
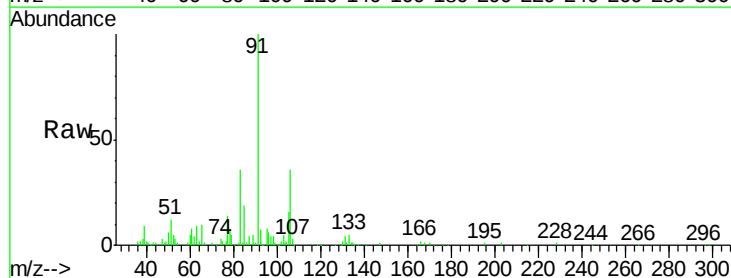
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

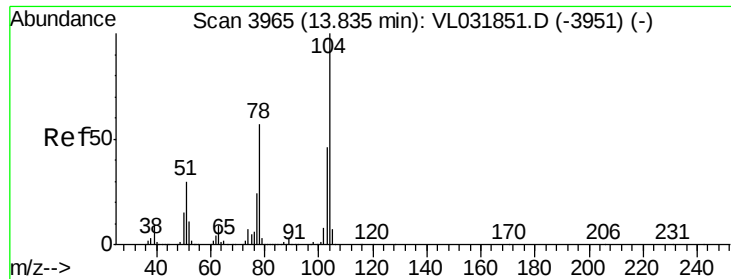
Tgt Ion: 91 Resp: 172615
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 0.42 ppbv
RT: 14.00 min Scan# 4017
Delta R.T. 0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Tgt Ion: 91 Resp: 149100
Ion Ratio Lower Upper
91 100
106 42.3 21.0 63.0

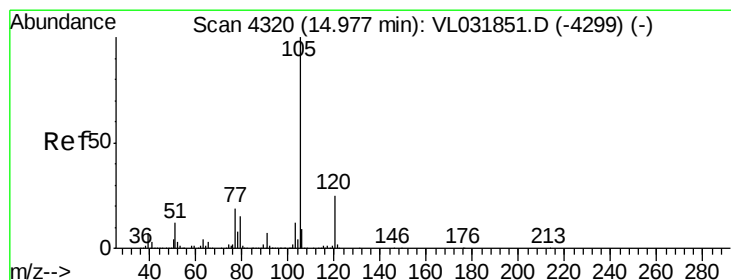
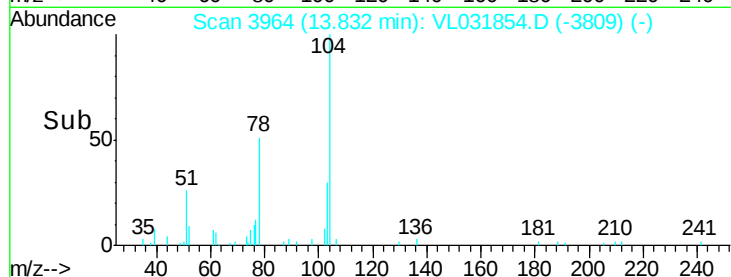
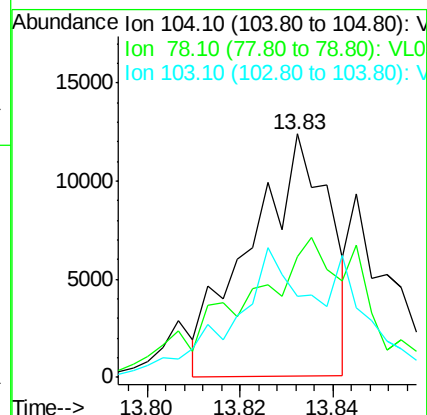
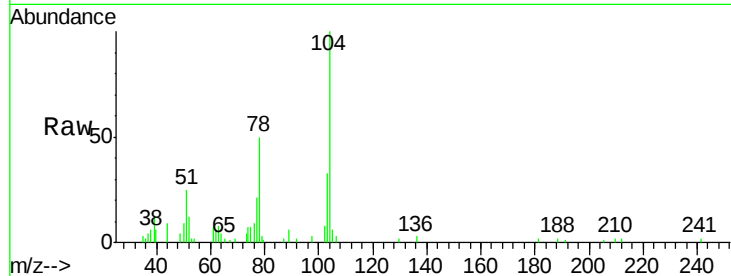




#61
Styrene
Concen: 0.18 ppbv
RT: 13.83 min Scan# 3964
Delta R.T. -0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

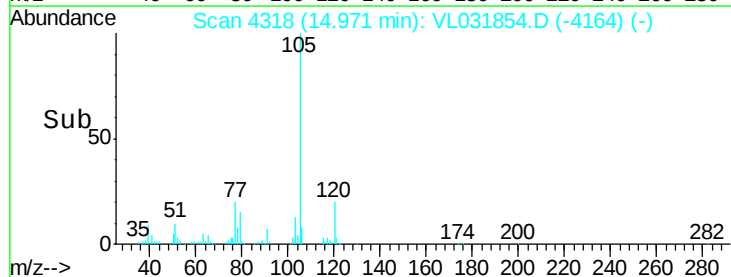
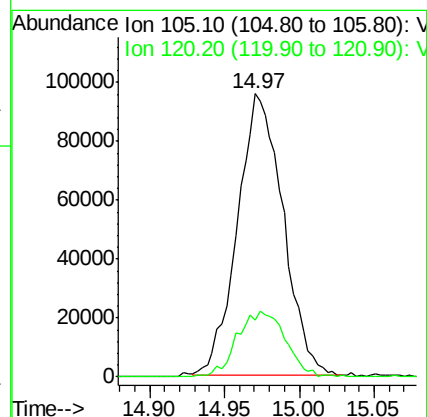
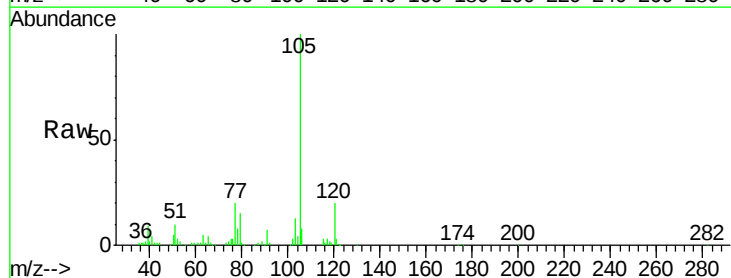
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

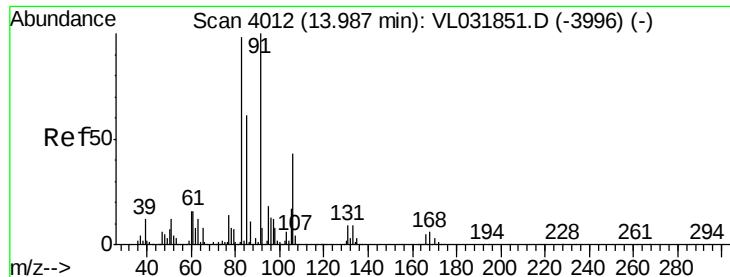
Tgt Ion:104 Resp: 14668
Ion Ratio Lower Upper
104 100
78 101.7 44.6 66.8#
103 79.7 37.9 56.9#



#62
Isopropylbenzene
Concen: 0.45 ppbv
RT: 14.97 min Scan# 4318
Delta R.T. -0.01 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Tgt Ion:105 Resp: 203186
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.6





#63

1,1,2,2-Tetrachloroethane

Concen: 0.57 ppbv

RT: 13.98 min Scan# 4010

Delta R.T. -0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

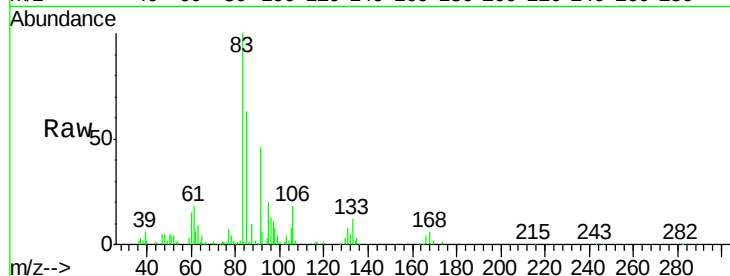
Tgt Ion: 83 Resp: 133187

Ion Ratio Lower Upper

83 100

131 10.2 4.8 14.4

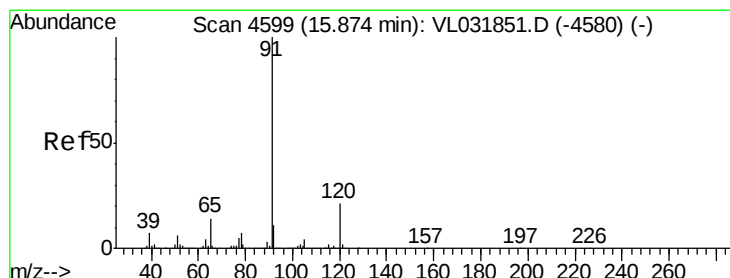
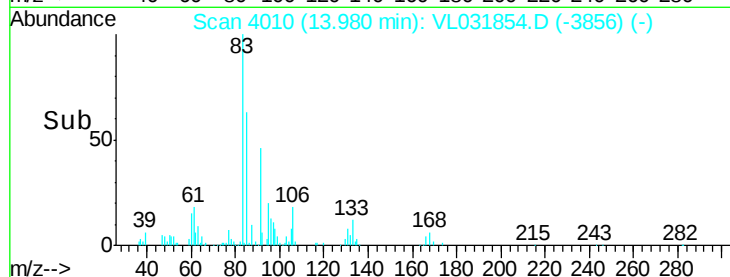
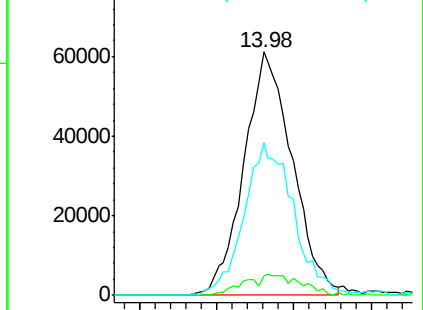
85 64.6 32.8 98.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.18 ppbv

RT: 15.88 min Scan# 4600

Delta R.T. 0.00 min

Lab File: VL031854.D

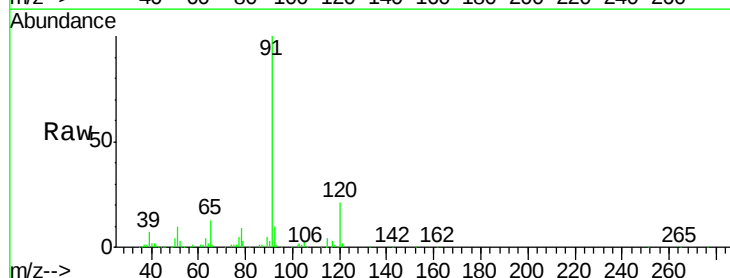
Acq: 12 Apr 2018 2:13

Tgt Ion: 120 Resp: 19350

Ion Ratio Lower Upper

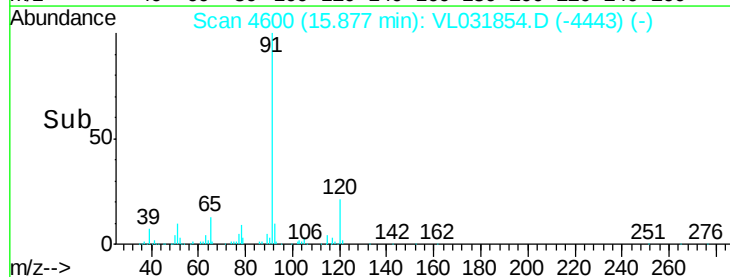
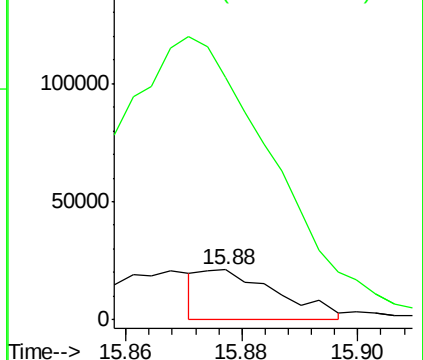
120 100

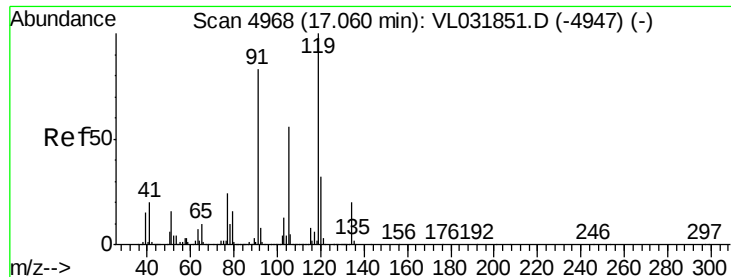
91 0.0 397.3 595.9#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.44 ppbv

RT: 17.06 min Scan# 4967

Delta R.T. -0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

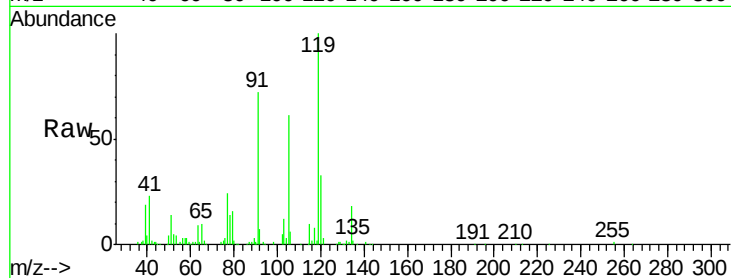
Tgt Ion: 119 Resp: 170038

Ion Ratio Lower Upper

119 100

91 94.3 69.0 103.6

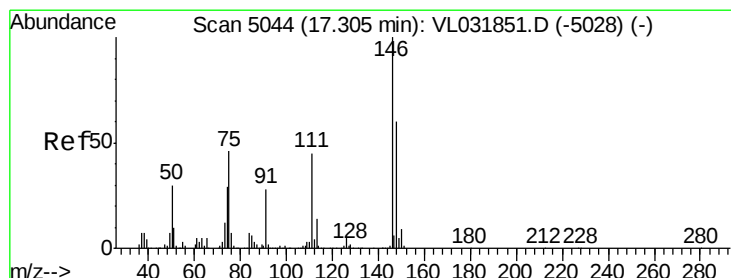
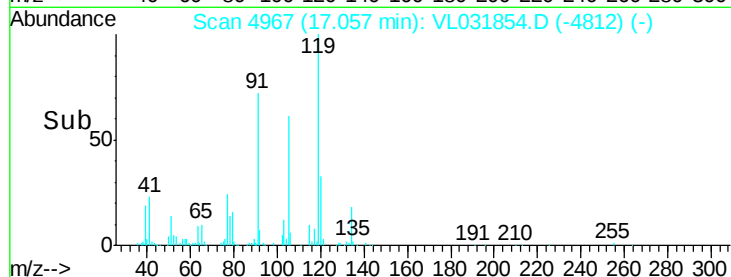
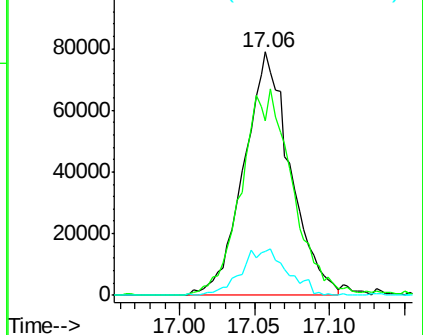
134 19.2 15.4 23.0



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.13 ppbv

RT: 17.30 min Scan# 5043

Delta R.T. -0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

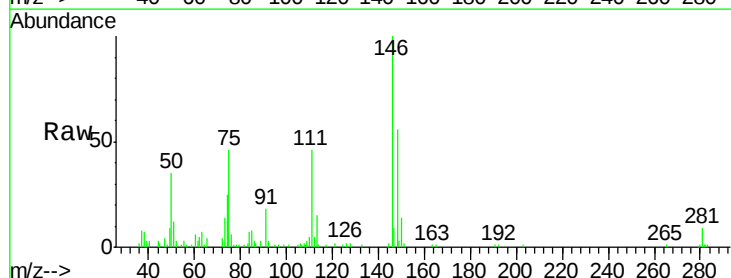
Tgt Ion: 91 Resp: 4416

Ion Ratio Lower Upper

91 100

126 0.0 12.7 19.1#

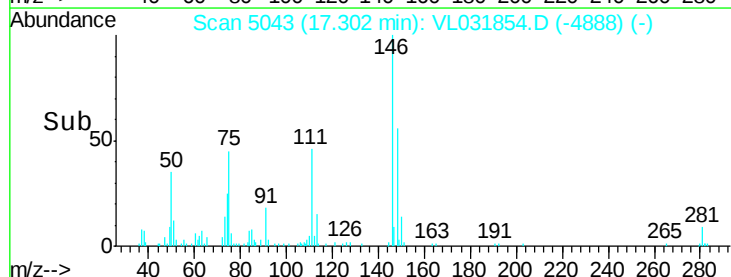
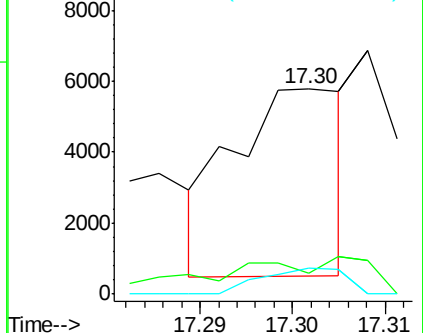
128 10.7 4.1 6.1#

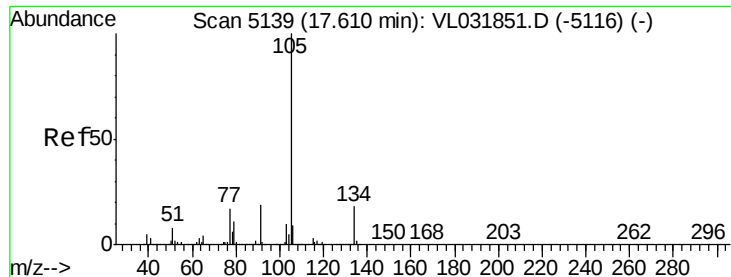


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

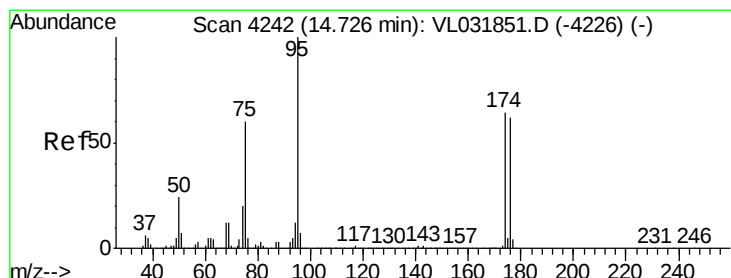
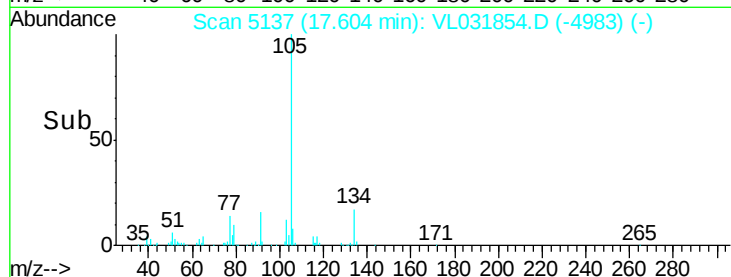
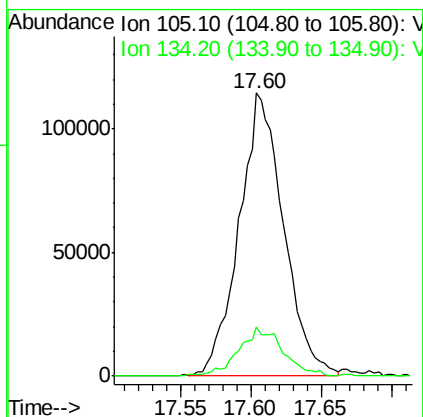
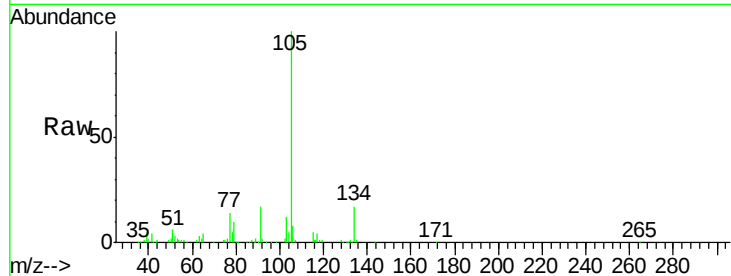




#67
 sec-Butylbenzene
 Concen: 0.46 ppbv
 RT: 17.60 min Scan# 5137
 Delta R.T. -0.01 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

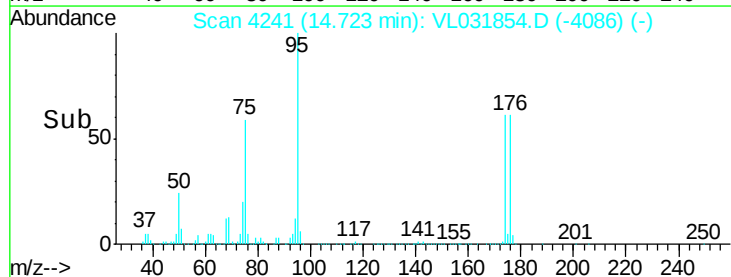
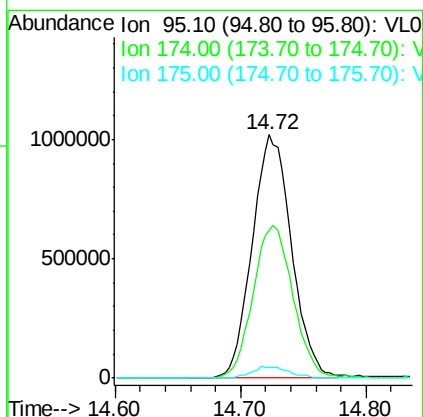
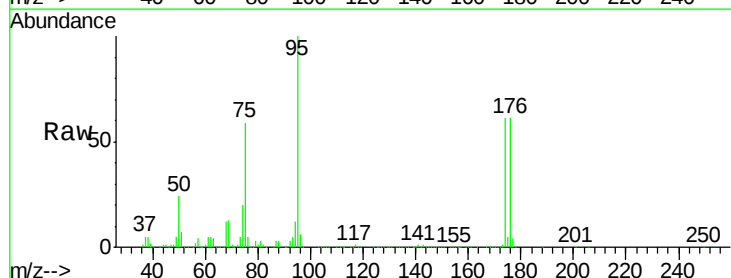
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

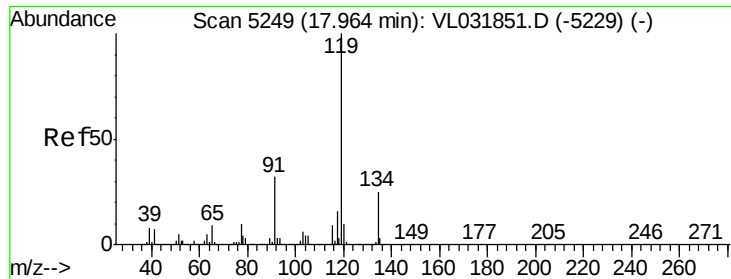
Tgt Ion: 105 Resp: 249924
 Ion Ratio Lower Upper
 105 100
 134 17.6 14.0 21.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.95 ppbv
 RT: 14.72 min Scan# 4241
 Delta R.T. -0.00 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

Tgt Ion: 95 Resp: 2226527
 Ion Ratio Lower Upper
 95 100
 174 64.0 52.2 78.2
 175 4.5 3.8 5.8

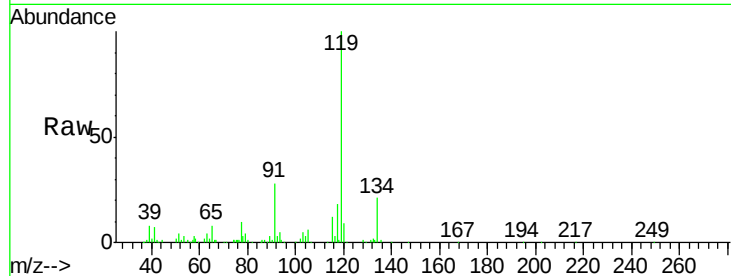




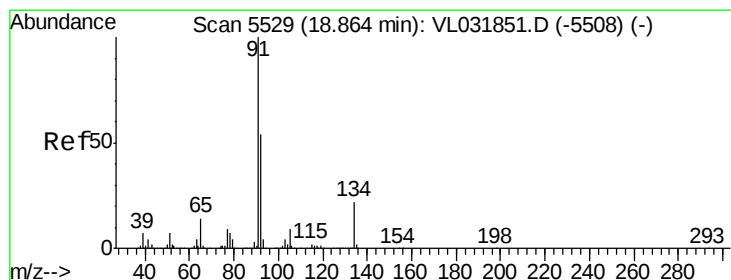
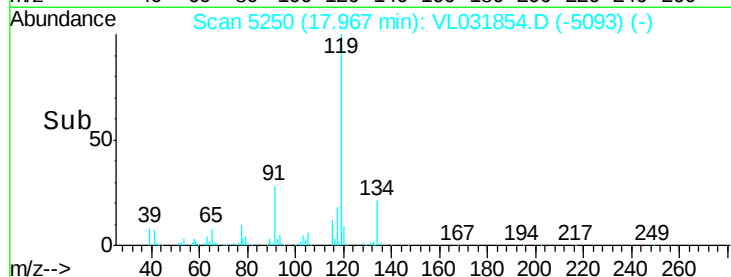
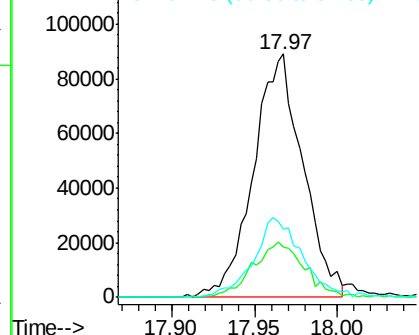
#69
p-Isopropyltoluene
Concen: 0.42 ppbv
RT: 17.97 min Scan# 5250
Delta R.T. 0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.4	19.7	29.5
91	33.1	24.6	37.0

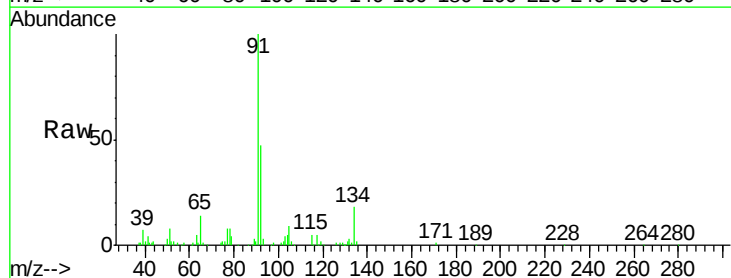


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

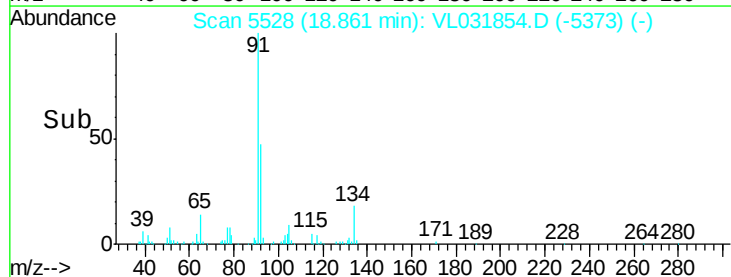
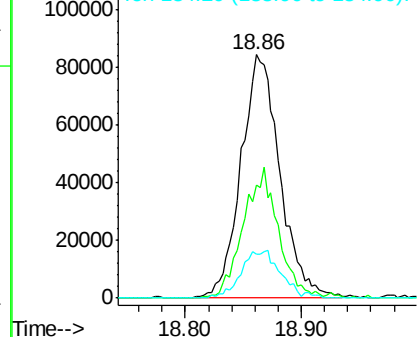


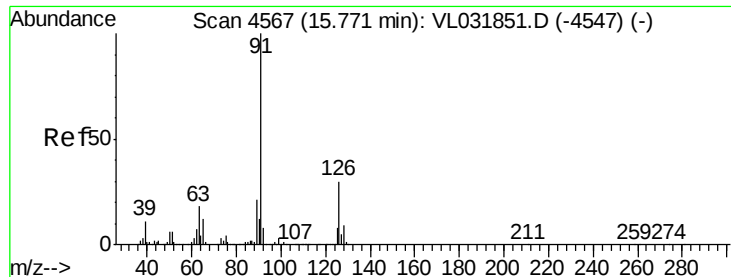
#70
n-Butylbenzene
Concen: 0.46 ppbv
RT: 18.86 min Scan# 5528
Delta R.T. -0.00 min
Lab File: VL031854.D
Acq: 12 Apr 2018 2:13

Tgt Ion	Ratio	Lower	Upper
91	100		
92	48.9	42.2	63.4
134	19.9	17.2	25.8



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: 0.41 ppbv

RT: 15.77 min Scan# 4566

Delta R.T. -0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

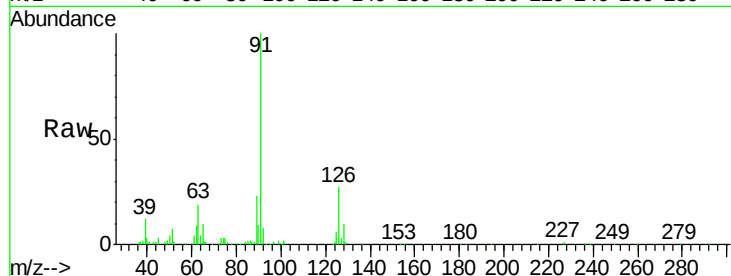
VSTDIC0.5

Tgt Ion: 91 Resp: 140409

Ion Ratio Lower Upper

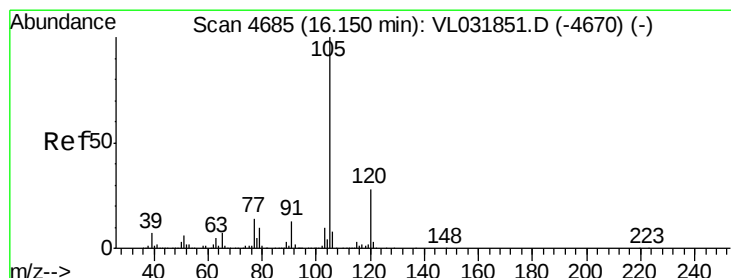
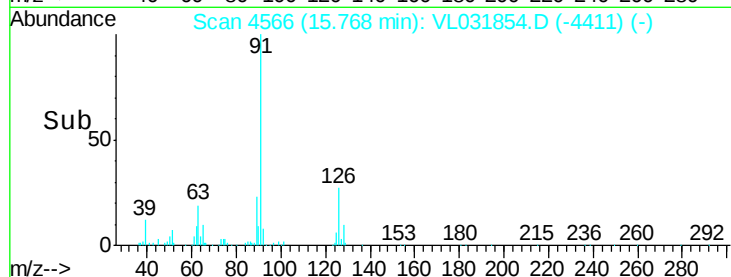
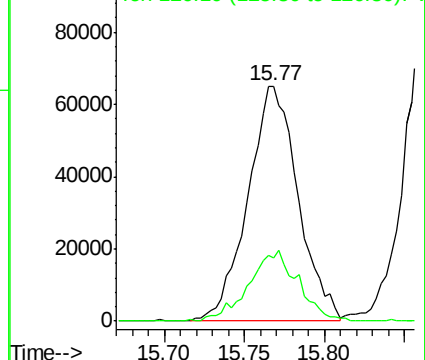
91 100

126 29.4 11.5 45.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.17 ppbv

RT: 16.15 min Scan# 4686

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Tgt Ion: 105 Resp: 59712

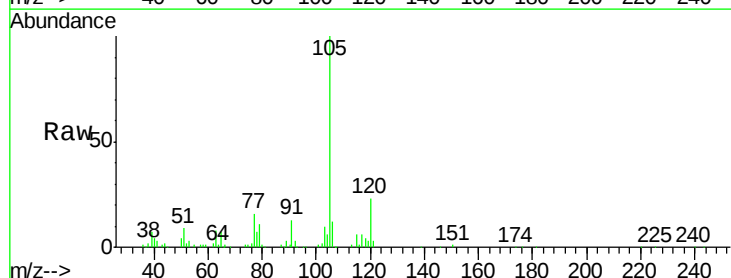
Ion Ratio Lower Upper

105 100

120 0.0 22.6 33.8#

91 0.0 10.7 16.1#

77 42.1 11.7 17.5#

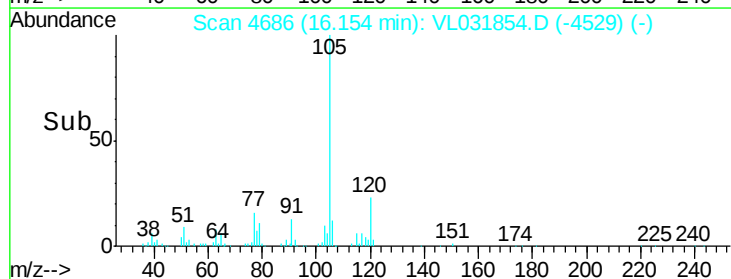
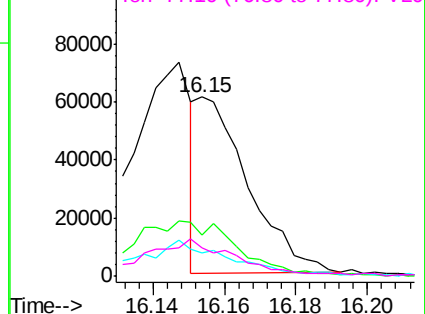


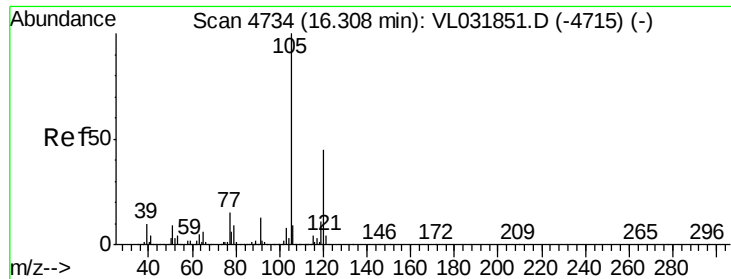
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.43 ppbv

RT: 16.30 min Scan# 4733

Delta R.T. -0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

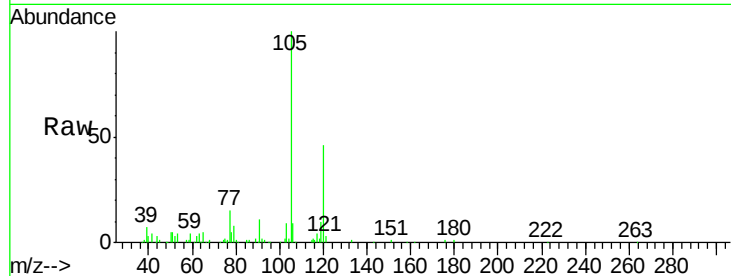
VSTDIC0.5

Tgt Ion:105 Resp: 141863

Ion Ratio Lower Upper

105 100

120 46.6 36.3 54.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.30

80000

60000

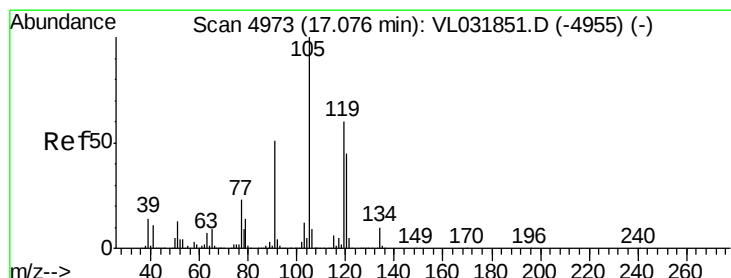
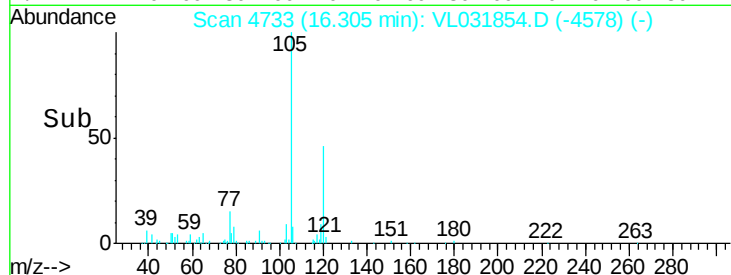
40000

20000

0

16.25 16.30 16.35

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.51 ppbv

RT: 17.07 min Scan# 4970

Delta R.T. -0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Tgt Ion:105 Resp: 179666

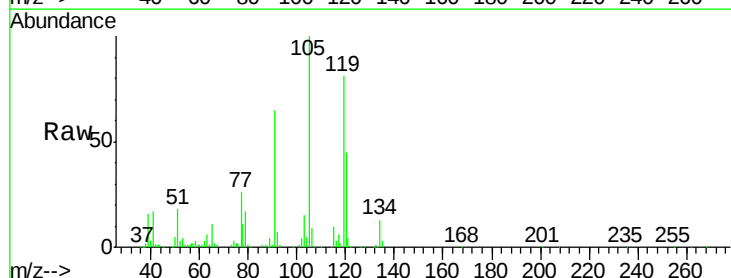
Ion Ratio Lower Upper

105 100

120 44.9 36.2 54.4

91 63.3 43.3 64.9

77 25.2 18.8 28.2



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

120000

100000

80000

60000

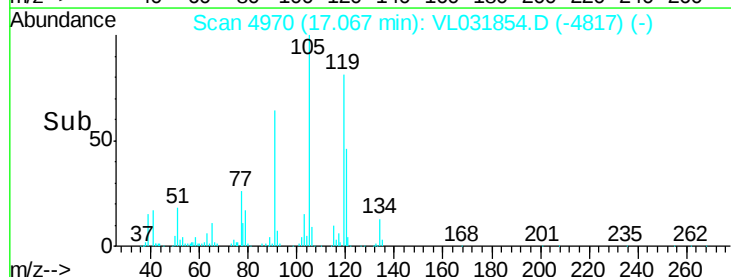
40000

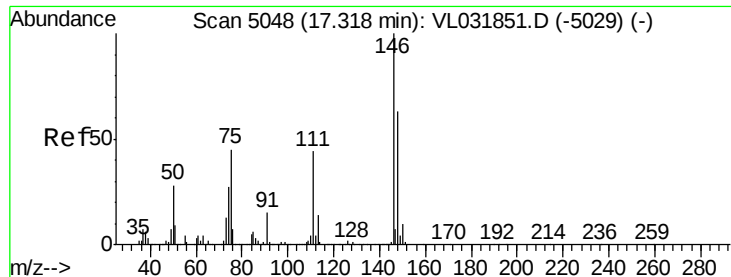
20000

0

17.00 17.05 17.10 17.15

Time-->

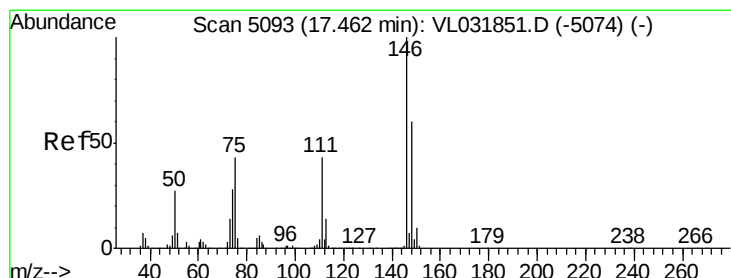
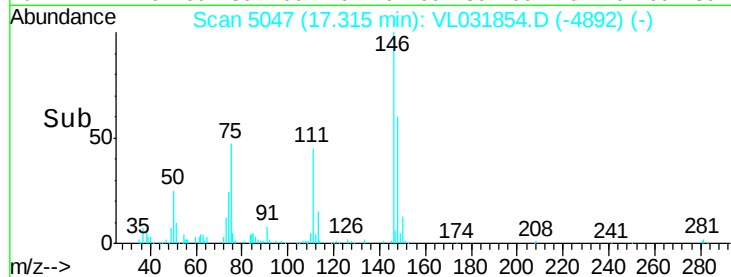
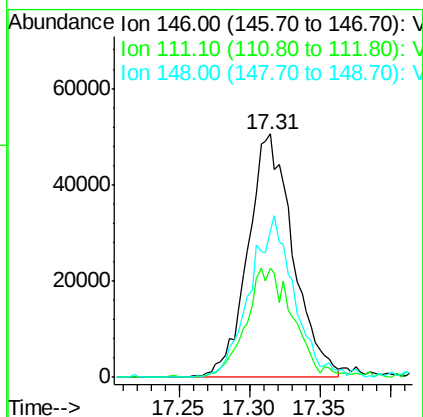
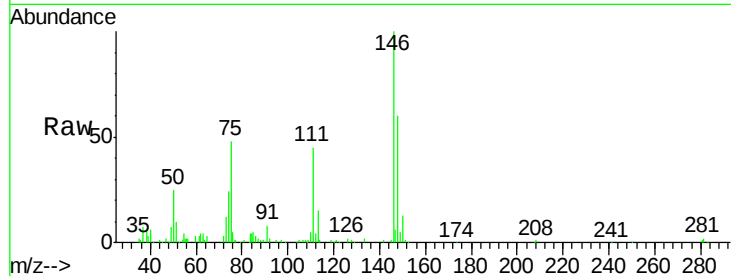




#75
 1,3-Dichlorobenzene
 Concen: 0.52 ppbv
 RT: 17.31 min Scan# 5047
 Delta R.T. -0.00 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

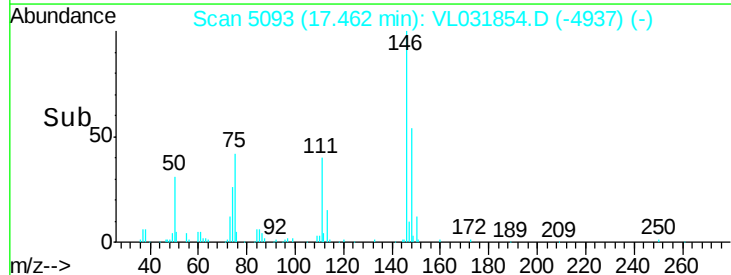
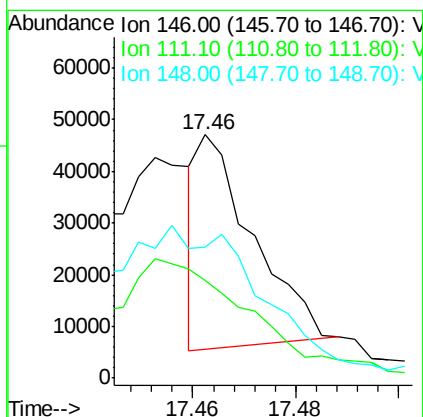
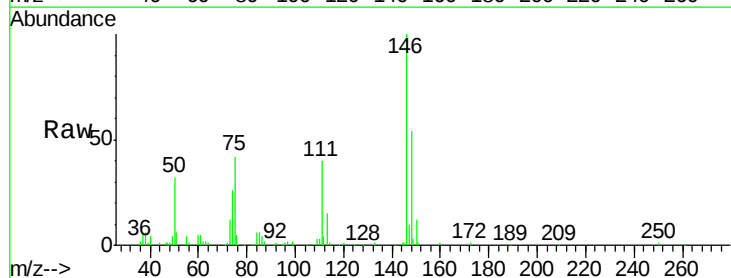
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

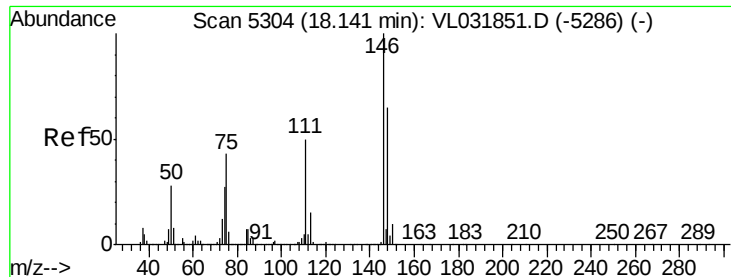
Tgt Ion:146 Resp: 112876
 Ion Ratio Lower Upper
 146 100
 111 47.4 23.4 70.0
 148 65.3 32.1 96.5



#76
 1,4-Dichlorobenzene
 Concen: 0.14 ppbv
 RT: 17.46 min Scan# 5093
 Delta R.T. 0.00 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

Tgt Ion:146 Resp: 30332
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.9 68.7#
 148 0.0 32.1 96.5#





#77

1,2-Dichlorobenzene

Concen: 0.51 ppbv

RT: 18.14 min Scan# 5304

Delta R.T. 0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

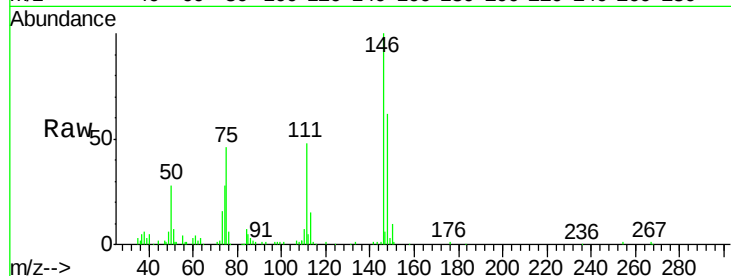
Tgt Ion:146 Resp: 105743

Ion Ratio Lower Upper

146 100

111 51.5 24.3 72.8

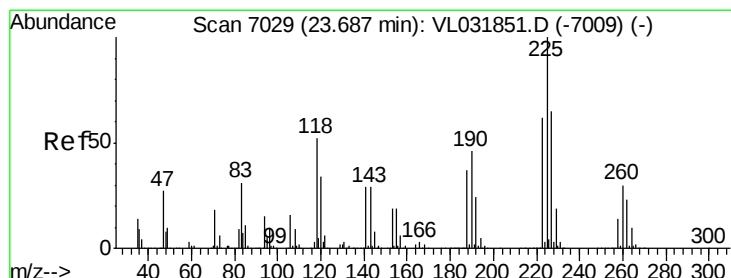
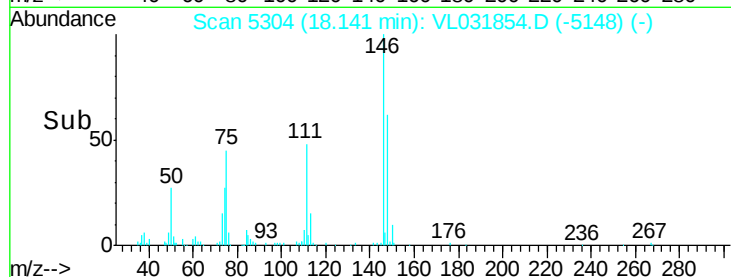
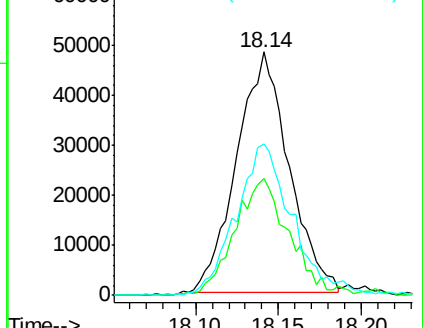
148 68.3 31.7 95.1



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: 0.45 ppbv

RT: 23.68 min Scan# 7028

Delta R.T. -0.00 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

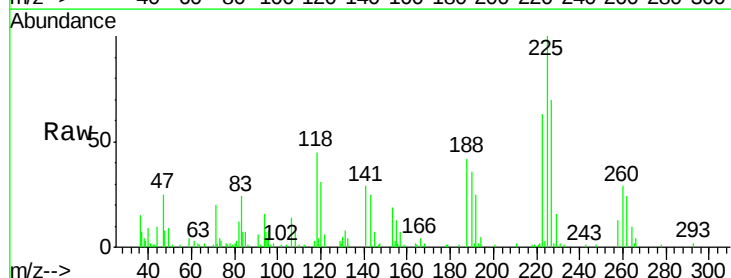
Tgt Ion:225 Resp: 38524

Ion Ratio Lower Upper

225 100

223 83.4 50.3 75.5#

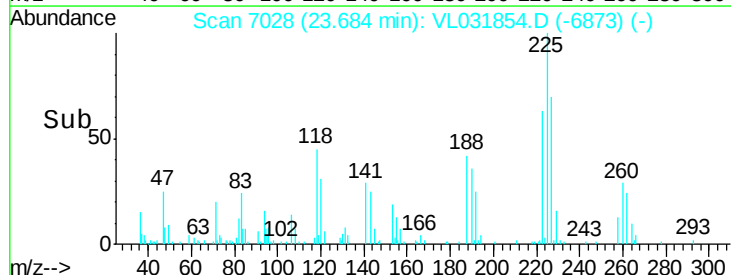
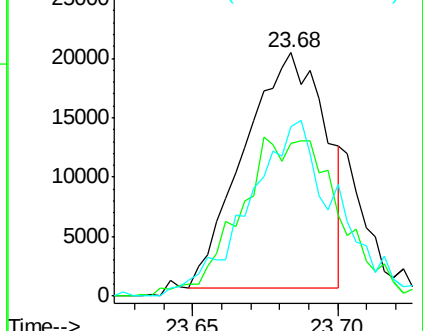
227 81.5 50.8 76.2#

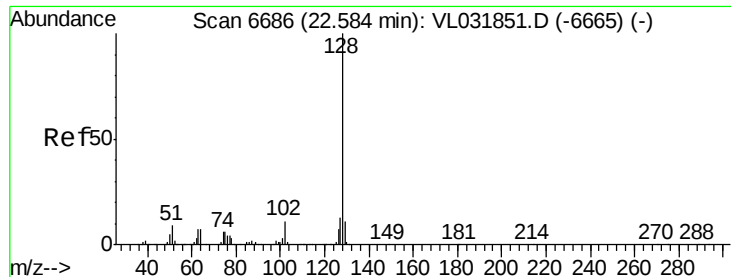


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.18 ppbv

RT: 22.60 min Scan# 6690

Delta R.T. 0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

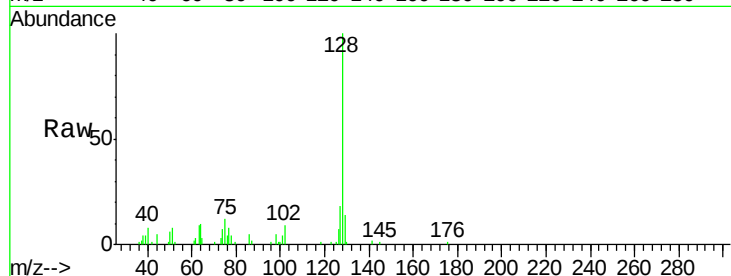
Tgt Ion:128 Resp: 40614

Ion Ratio Lower Upper

128 100

127 14.7 10.4 15.6

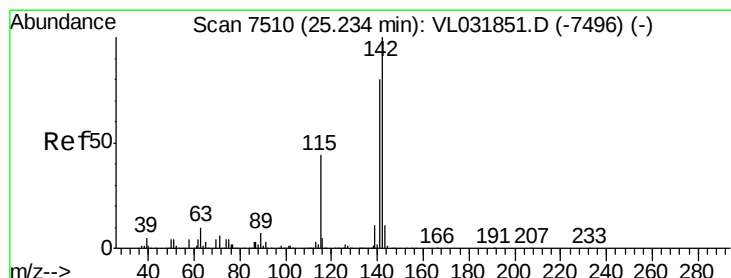
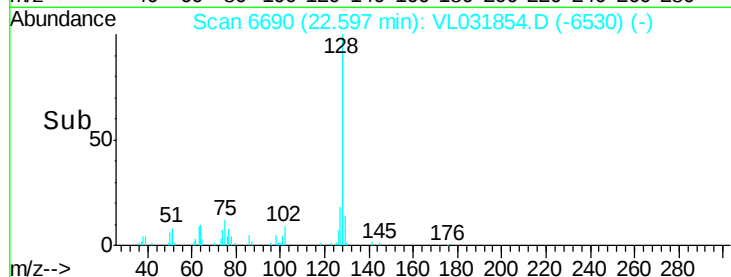
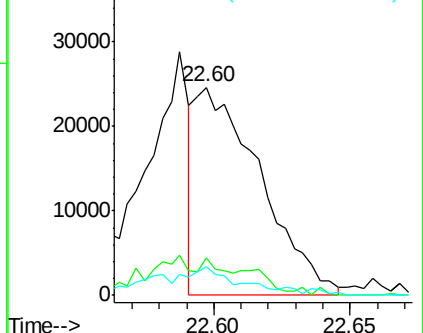
129 12.6 9.1 13.7



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.22 ppbv

RT: 25.24 min Scan# 7513

Delta R.T. 0.01 min

Lab File: VL031854.D

Acq: 12 Apr 2018 2:13

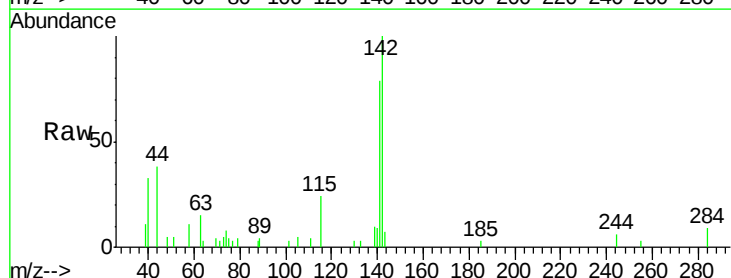
Tgt Ion:142 Resp: 12252

Ion Ratio Lower Upper

142 100

141 81.1 65.8 98.8

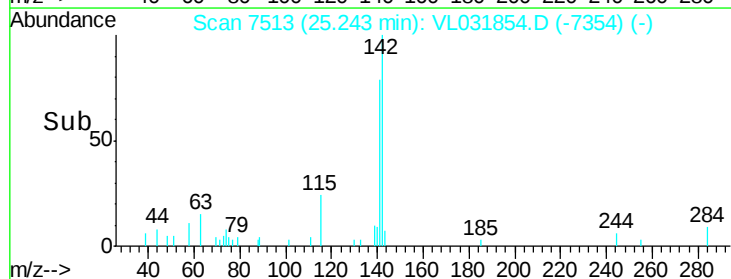
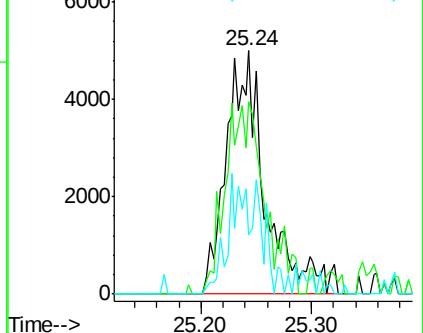
115 36.4 35.8 53.6

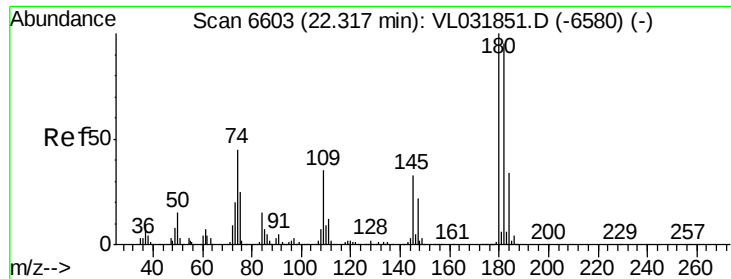


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.25 ppbv
 RT: 22.32 min Scan# 6603
 Delta R.T. 0.00 min
 Lab File: VL031854.D
 Acq: 12 Apr 2018 2:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:180 Resp: 30330
 Ion Ratio Lower Upper
 180 100
 182 153.3 76.6 114.8#
 184 0.0 25.0 37.4#

