

Data File : VL032250.D
Acq On : 13 Jul 2018 18:02
Operator : SY/AP
Sample : J3753-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

Quant Time: Jul 13 18:37:58 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL071218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 04:25:14 2018
QLast Update : Fri Jul 13 04:25:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1726429	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	3803726	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4308646	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.67 95 3354632 10.06 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.60%

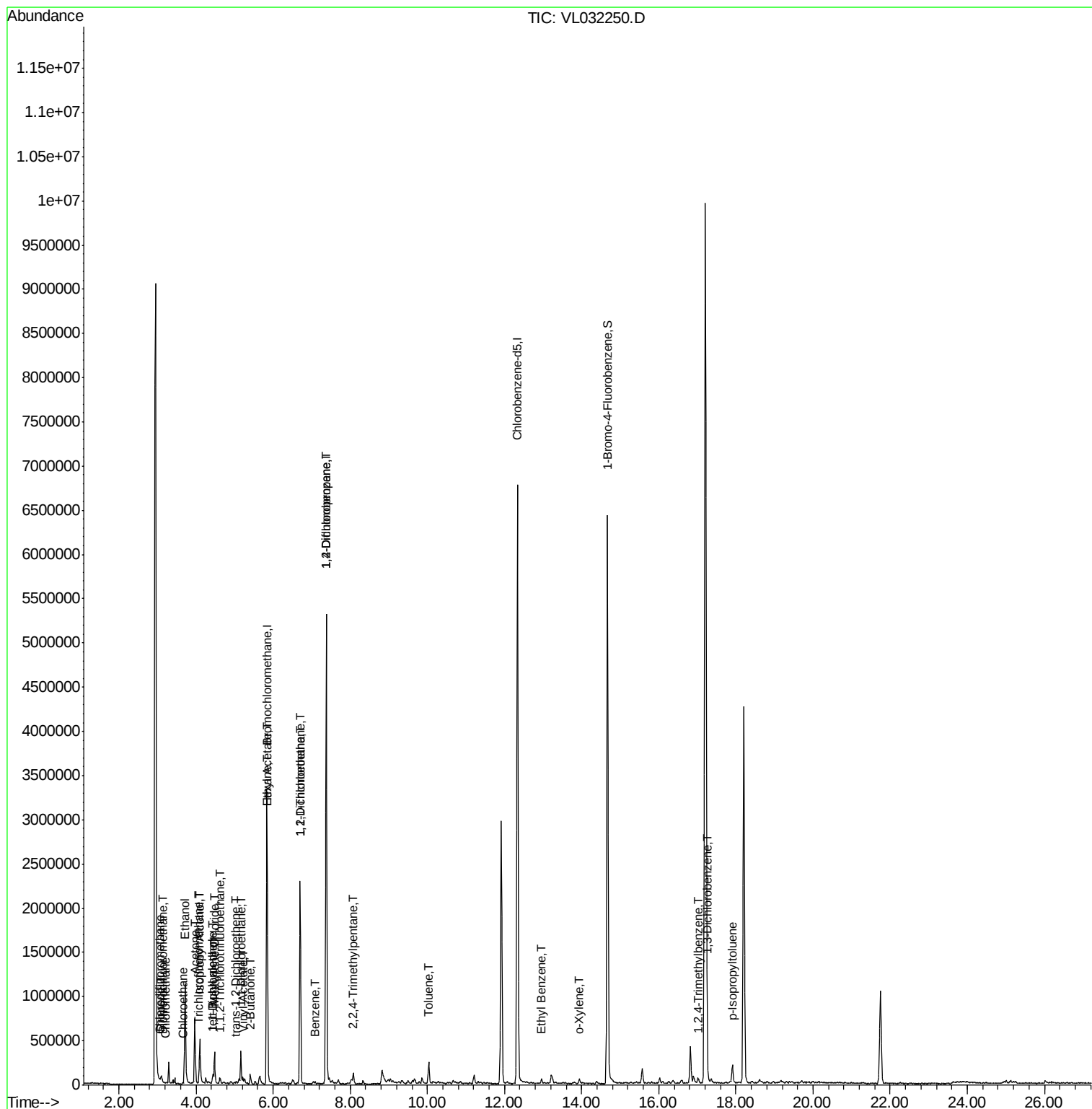
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.13	85	17328	0.070 ppbv	96
3) Chlorodifluoromethane	3.06	51	13636	0.064 ppbv	99
4) Chloromethane	3.22	50	3992	0.033 ppbv #	77
7) Chloroethane	3.66	64	4540	0.111 ppbv #	81
9) Propene	3.09	41	12101	0.134 ppbv #	80
11) Trichlorofluoromethane	4.07	101	10569	0.044 ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.62	101	23108	0.152 ppbv	96
13) Ethanol	3.71	45	1310129	50.187 ppbv	98
15) Acetone	3.97	43	745367	3.721 ppbv	100
17) tert-Butyl alcohol	4.44	59	88173	0.943 ppbv	95
18) 1,1-Dichloroethene	4.42	96	4040	0.057 ppbv #	70
19) Isopropyl Alcohol	4.10	45	622005	4.728 ppbv #	98
20) Methylene Chloride	4.48	84	115940	1.708 ppbv	98
22) trans-1,2-Dichloroethene	5.04	96	5998	0.089 ppbv #	74
23) Vinyl Acetate	5.22	43	18618	0.056 ppbv #	75
24) 1,1-Dichloroethane	5.16	63	310457	1.327 ppbv	98
25) Ethyl Acetate	5.86	43	82977	0.209 ppbv #	88
26) Hexane	5.86	57	92084	0.509 ppbv #	49
32) 1,1,1-Trichloroethane	6.70	97	1429854	5.278 ppbv	99
34) 2-Butanone	5.41	43	124212	0.479 ppbv	97
36) Benzene	7.09	78	17199	0.045 ppbv #	88
37) 1,2-Dichloroethane	6.70	62	97444	0.471 ppbv #	1
39) 1,2-Dichloropropane	7.38	63	1063792	7.081 ppbv #	27
44) 2,2,4-Trimethylpentane	8.08	57	104199	0.160 ppbv #	85
53) Toluene	10.04	91	140434	0.314 ppbv	98
58) Ethyl Benzene	12.96	91	17231	0.027 ppbv	98
60) o-Xylene	13.94	91	20878	0.041 ppbv #	43
69) p-Isopropyltoluene	17.91	119	143251	0.210 ppbv	96
74) 1,2,4-Trimethylbenzene	17.02	105	31750	0.058 ppbv #	58
75) 1,3-Dichlorobenzene	17.26	146	34493	0.106 ppbv #	34

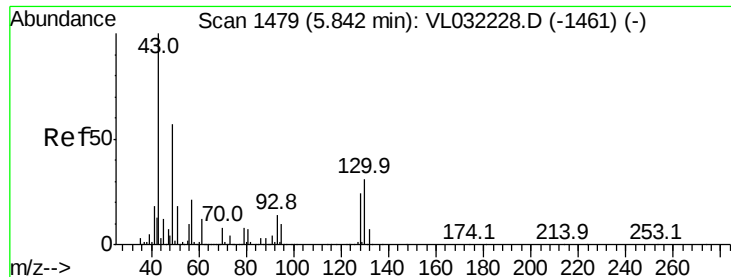
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

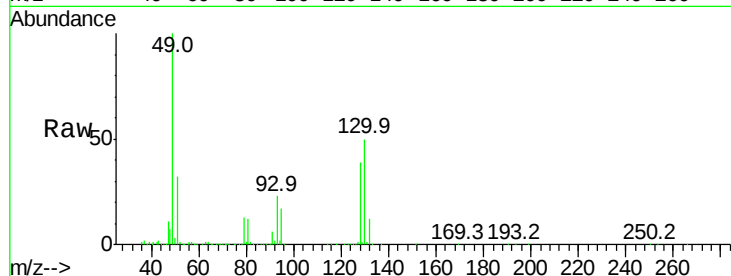
Tgt Ion: 49 Resp: 1726429

Ion Ratio Lower Upper

49 100

128 40.5 20.9 62.8

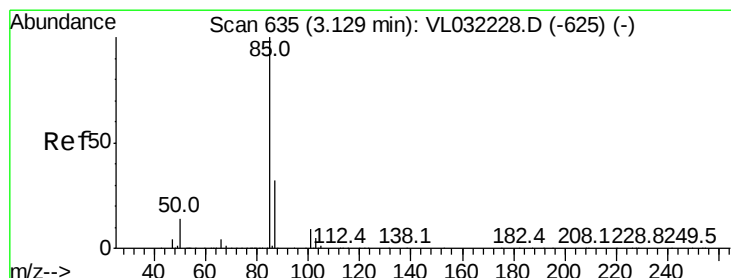
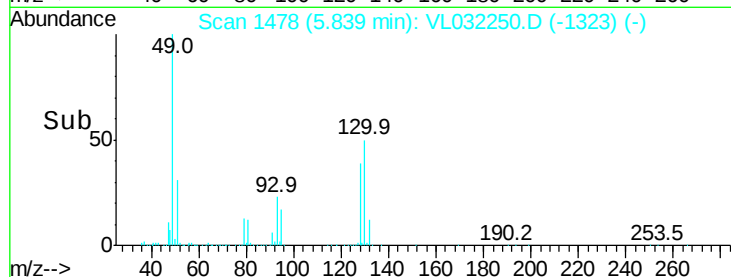
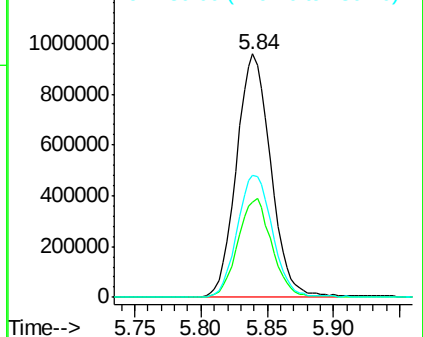
130 51.8 27.0 81.0



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: 0.070 ppbv

RT: 3.13 min Scan# 635

Delta R.T. -0.00 min

Lab File: VL032250.D

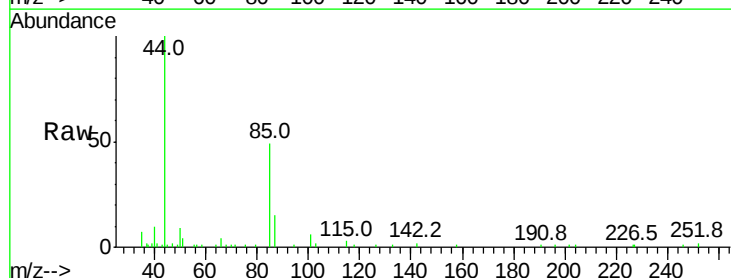
Acq: 13 Jul 2018 18:02

Tgt Ion: 85 Resp: 17328

Ion Ratio Lower Upper

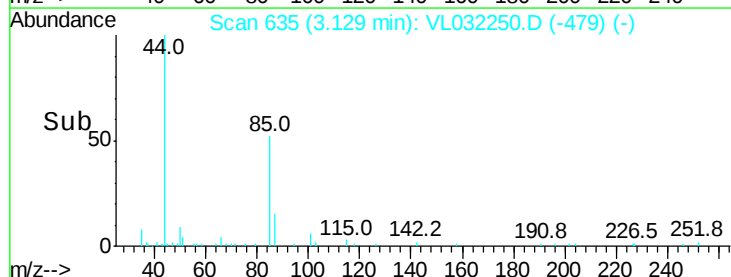
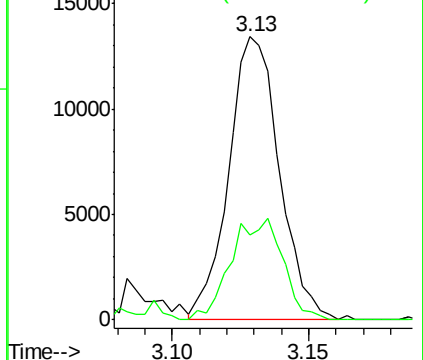
85 100

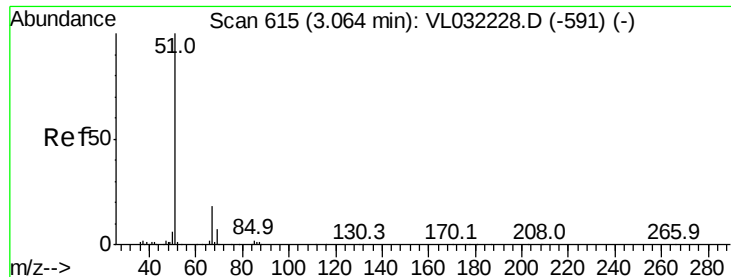
87 29.9 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.064 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

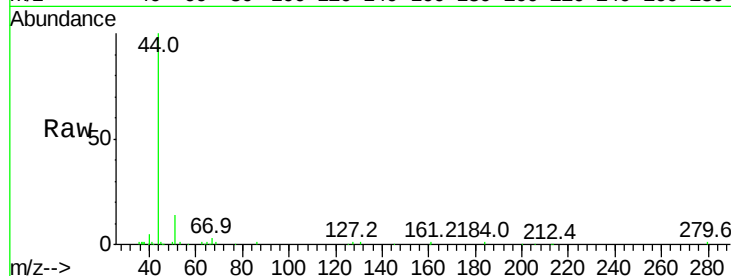
EFFLUENTDL

Tgt Ion: 51 Resp: 13636

Ion Ratio Lower Upper

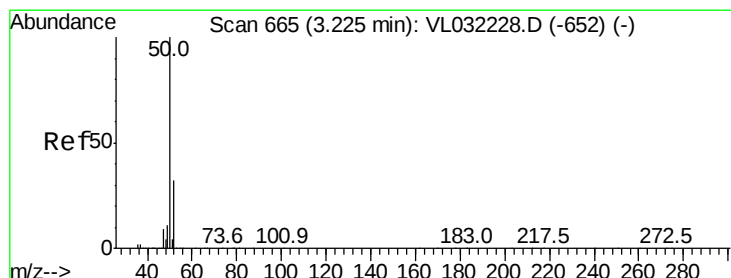
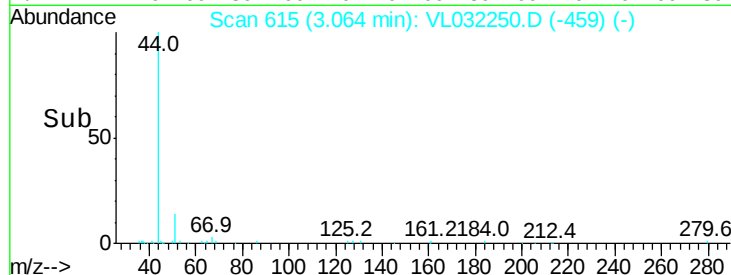
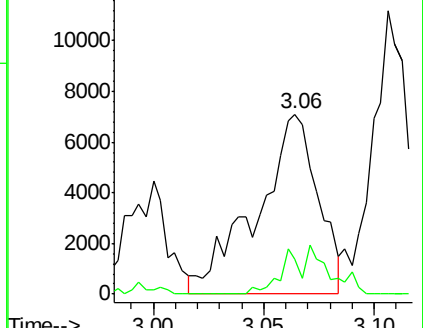
51 100

67 18.5 14.6 22.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.033 ppbv

RT: 3.22 min Scan# 665

Delta R.T. -0.00 min

Lab File: VL032250.D

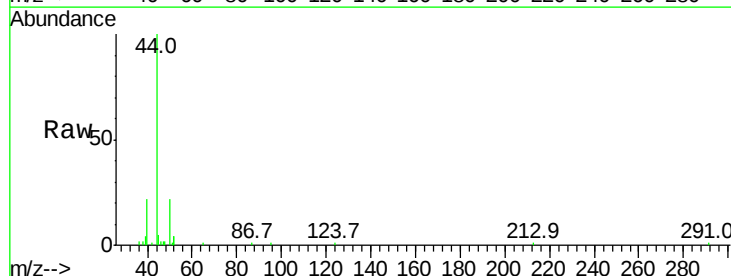
Acq: 13 Jul 2018 18:02

Tgt Ion: 50 Resp: 3992

Ion Ratio Lower Upper

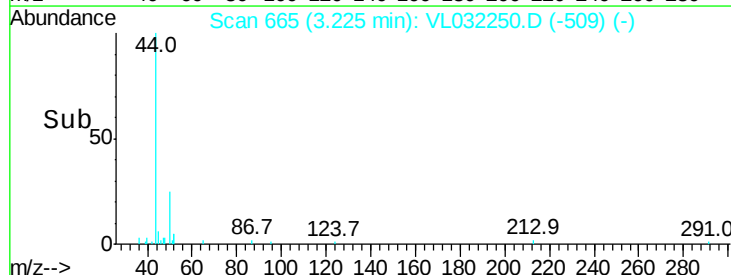
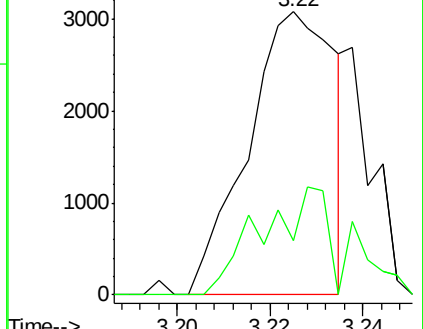
50 100

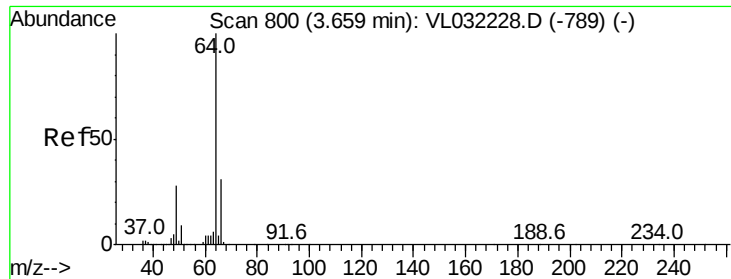
52 19.0 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.111 ppbv

RT: 3.66 min Scan# 799

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

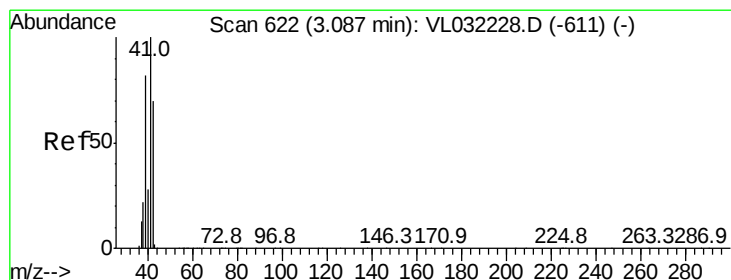
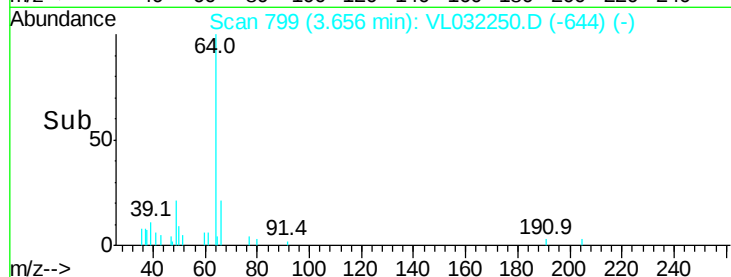
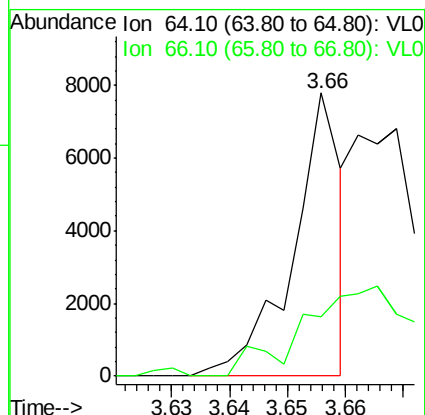
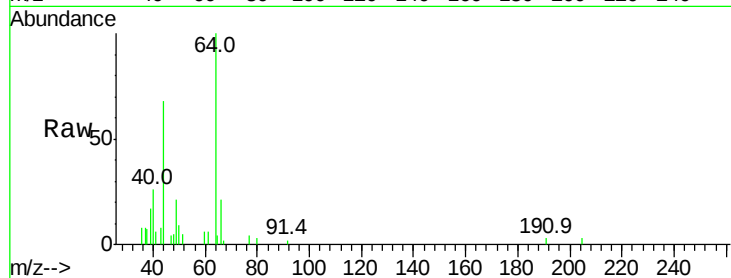
EFFLUENTDL

Tgt Ion: 64 Resp: 4540

Ion Ratio Lower Upper

64 100

66 20.2 24.4 36.6#



#9

Propene

Concen: 0.134 ppbv

RT: 3.09 min Scan# 622

Delta R.T. 0.00 min

Lab File: VL032250.D

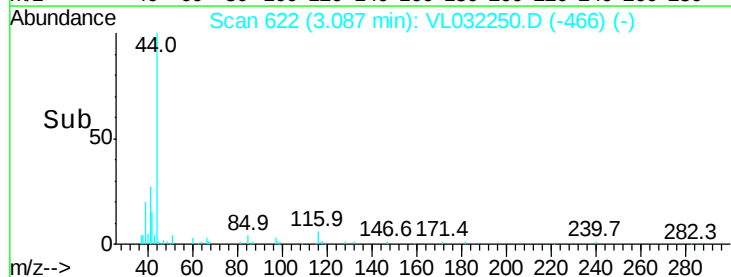
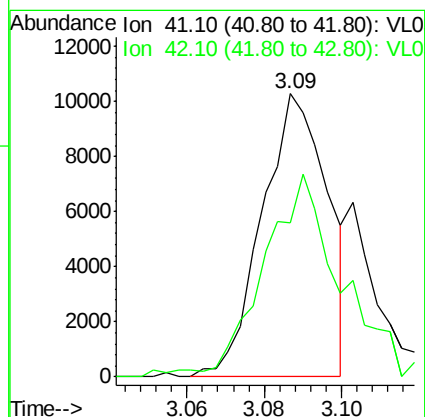
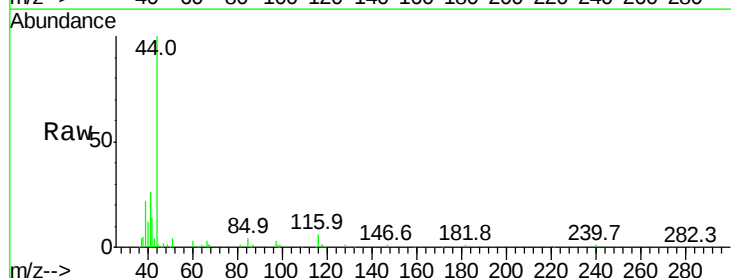
Acq: 13 Jul 2018 18:02

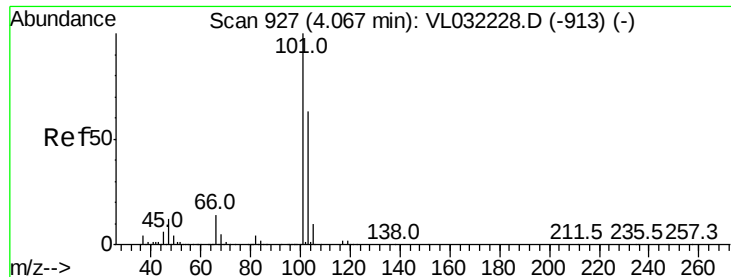
Tgt Ion: 41 Resp: 12101

Ion Ratio Lower Upper

41 100

42 86.5 56.2 84.4#





#11

Trichlorofluoromethane

Concen: 0.044 ppbv

RT: 4.07 min Scan# 928

Delta R.T. 0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

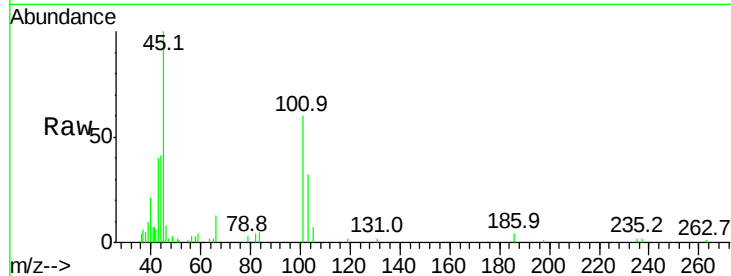
EFFLUENTDL

Tgt Ion:101 Resp: 10569

Ion Ratio Lower Upper

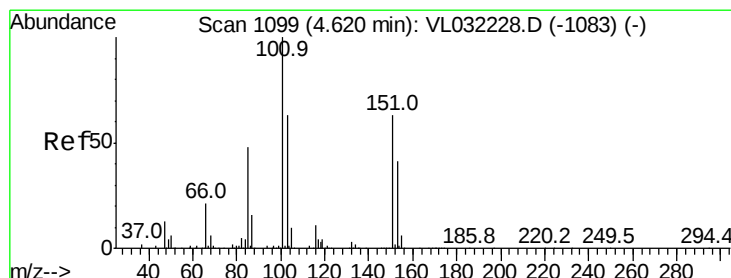
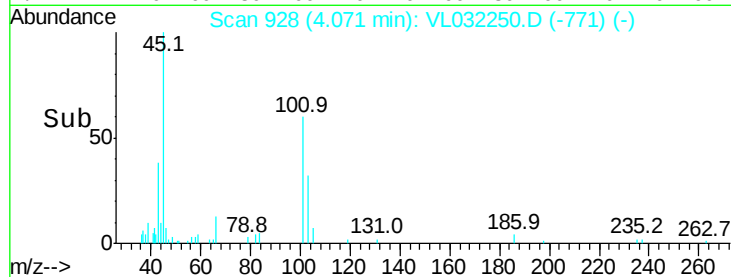
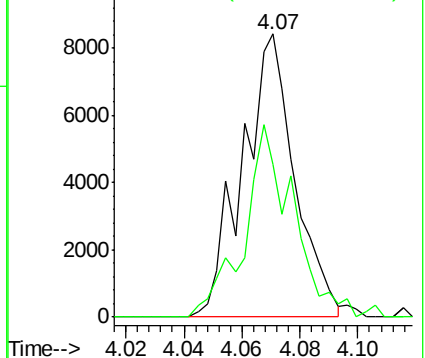
101 100

103 53.9 50.2 75.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.152 ppbv

RT: 4.62 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VL032250.D

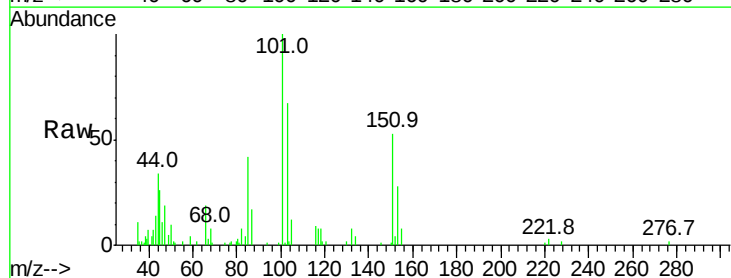
Acq: 13 Jul 2018 18:02

Tgt Ion:101 Resp: 23108

Ion Ratio Lower Upper

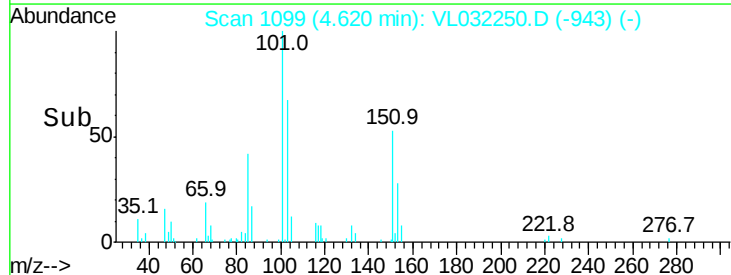
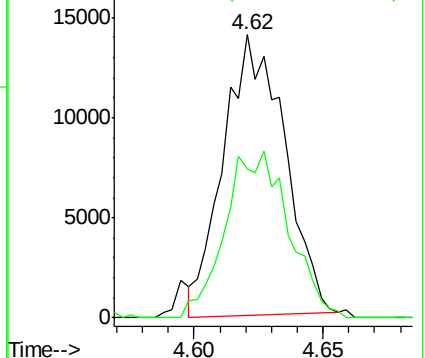
101 100

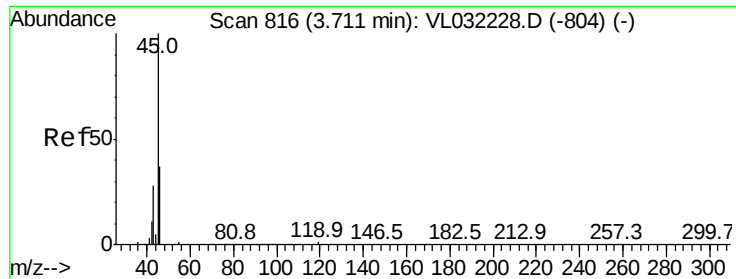
151 61.8 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

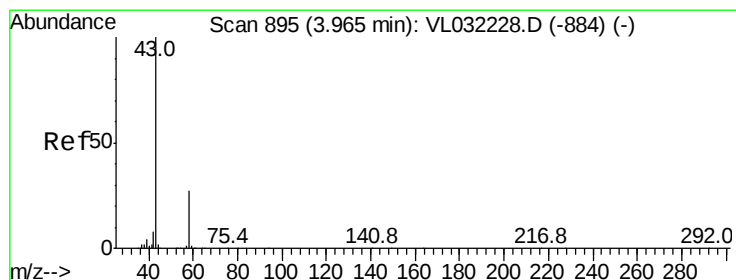
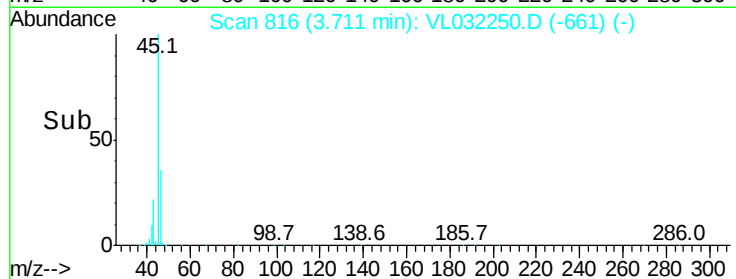
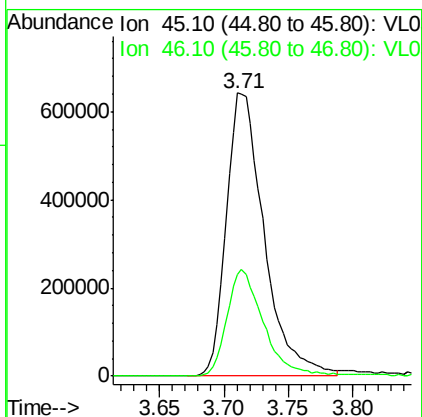
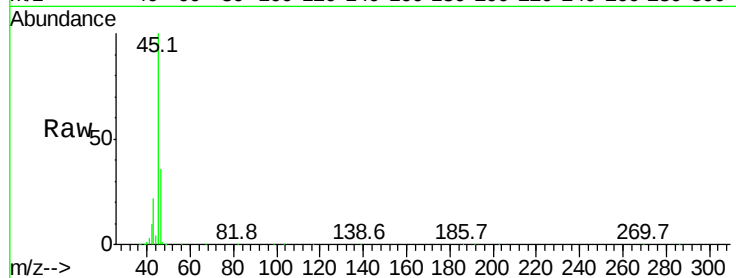




#13
Ethanol
Concen: 50.187 ppbv
RT: 3.71 min Scan# 816
Delta R.T. -0.00 min
Lab File: VL032250.D
Acq: 13 Jul 2018 18:02

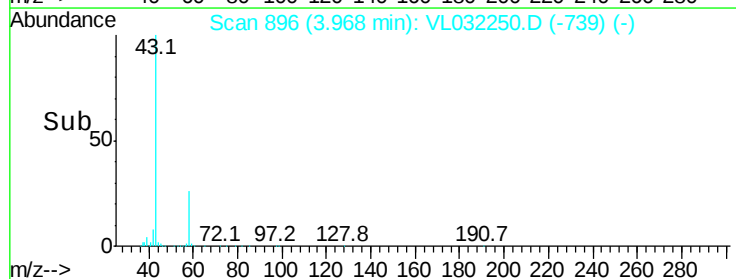
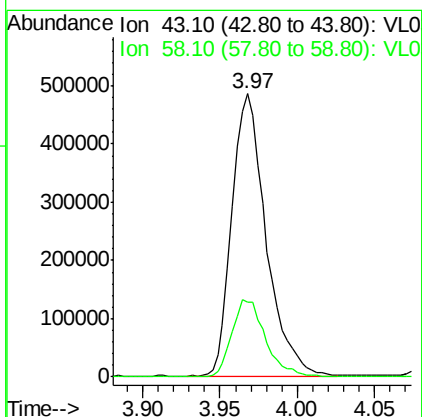
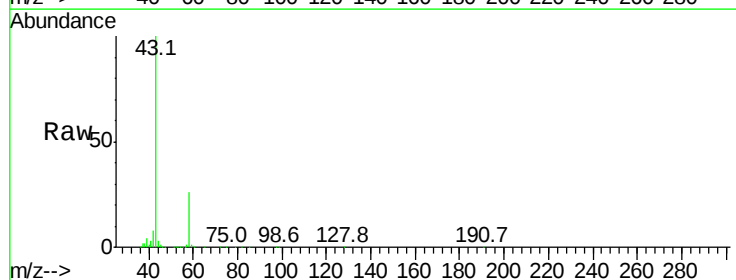
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

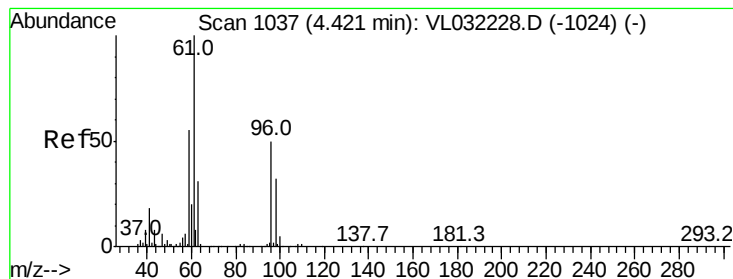
Tgt Ion: 45 Resp: 1310129
Ion Ratio Lower Upper
45 100
46 37.4 15.5 61.9



#15
Acetone
Concen: 3.721 ppbv
RT: 3.97 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL032250.D
Acq: 13 Jul 2018 18:02

Tgt Ion: 43 Resp: 745367
Ion Ratio Lower Upper
43 100
58 27.1 21.5 32.3





#17

tert-Butyl alcohol

Concen: 0.943 ppbv

RT: 4.44 min Scan# 1042

Delta R.T. 0.02 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

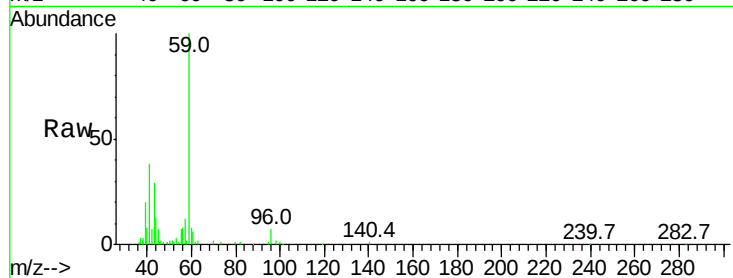
EFFLUENTDL

Tgt Ion: 59 Resp: 88173

Ion Ratio Lower Upper

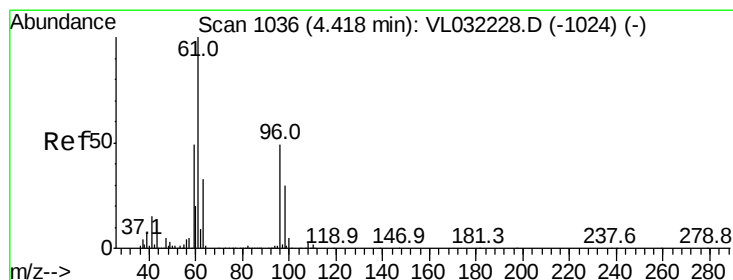
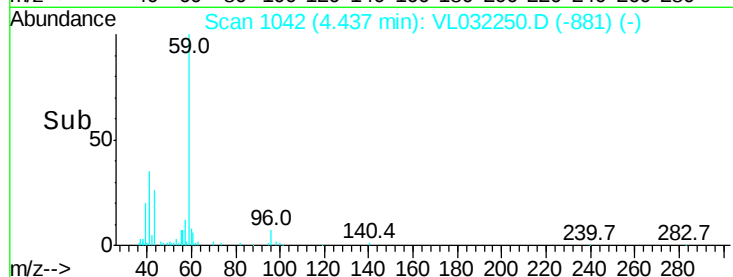
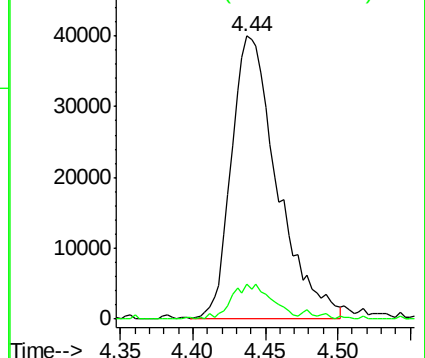
59 100

57 12.3 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.057 ppbv

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

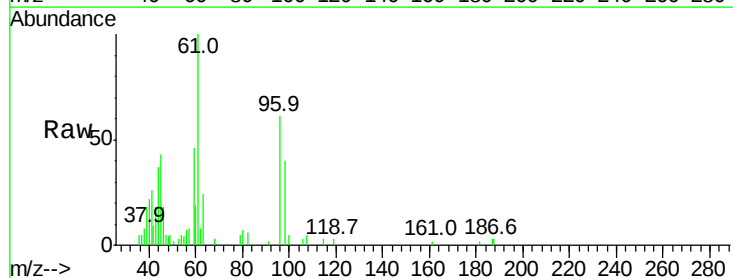
Tgt Ion: 96 Resp: 4040

Ion Ratio Lower Upper

96 100

61 146.6 163.0 244.4#

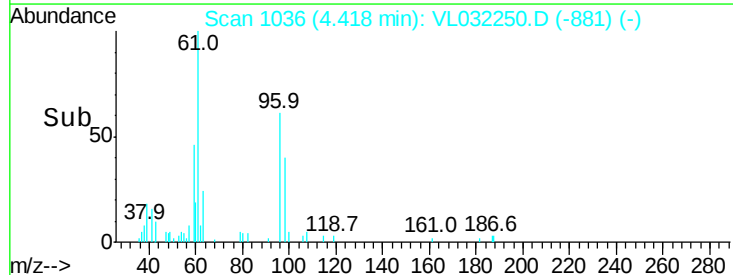
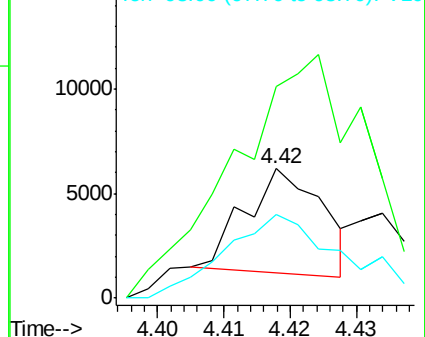
98 64.4 48.5 72.7

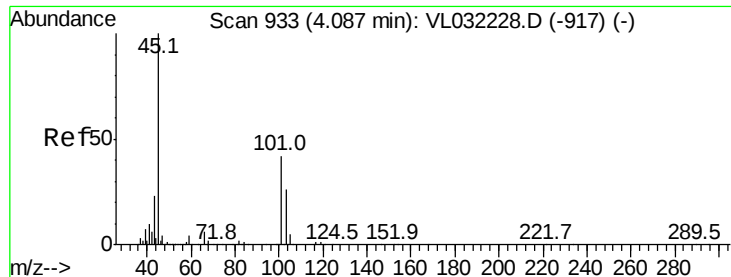


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 4.728 ppbv

RT: 4.10 min Scan# 936

Delta R.T. 0.01 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

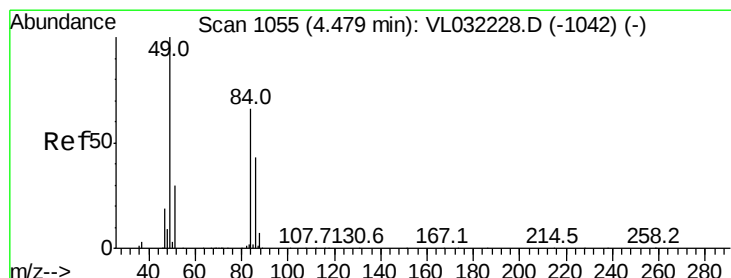
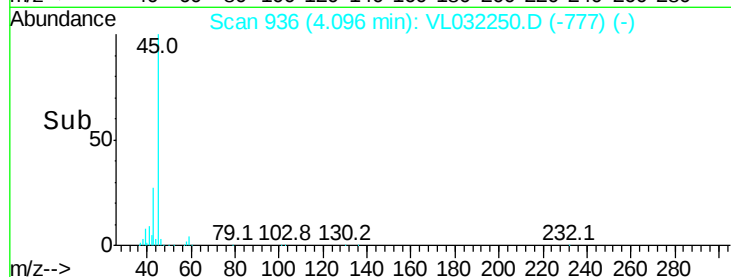
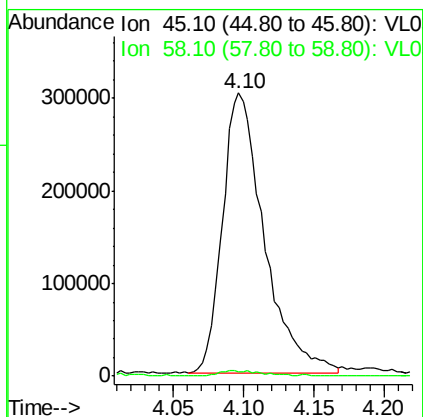
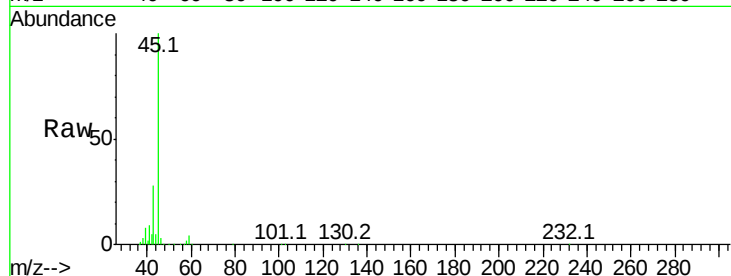
EFFLUENTDL

Tgt Ion: 45 Resp: 622005

Ion Ratio Lower Upper

45 100

58 2.4 1.3 1.9#



#20

Methylene Chloride

Concen: 1.708 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Tgt Ion: 84 Resp: 115940

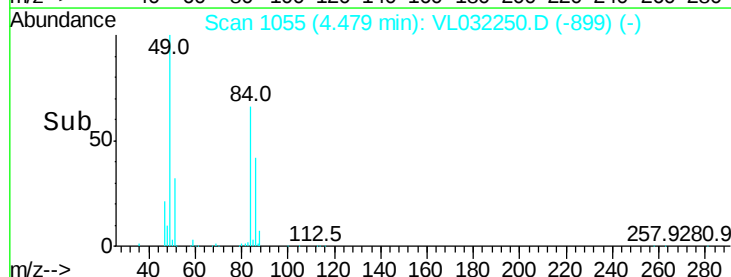
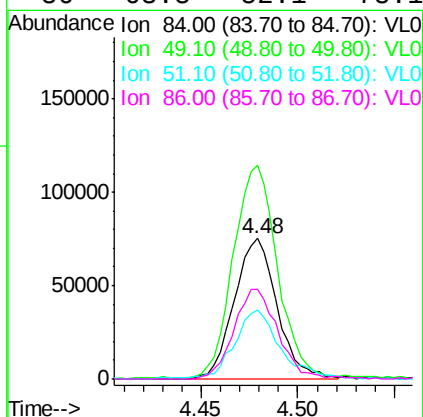
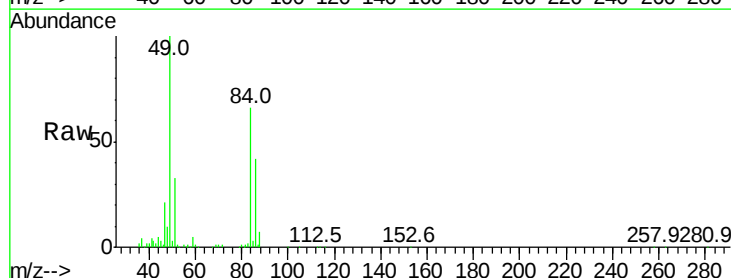
Ion Ratio Lower Upper

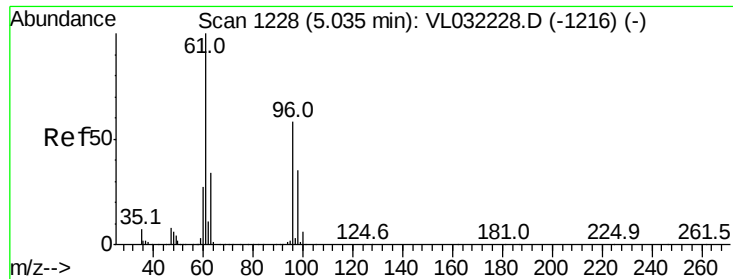
84 100

49 151.1 121.8 182.6

51 48.3 36.3 54.5

86 63.8 52.1 78.1





#22

trans-1,2-Dichloroethene

Concen: 0.089 ppbv

RT: 5.04 min Scan# 1230

Delta R.T. 0.01 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

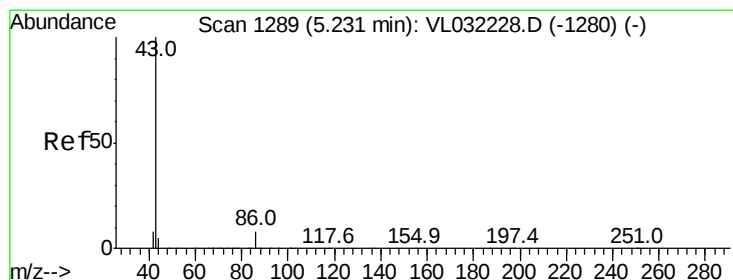
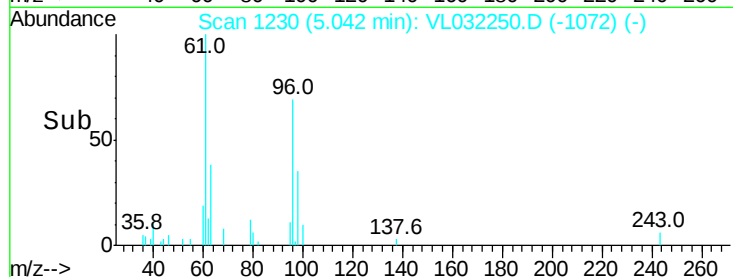
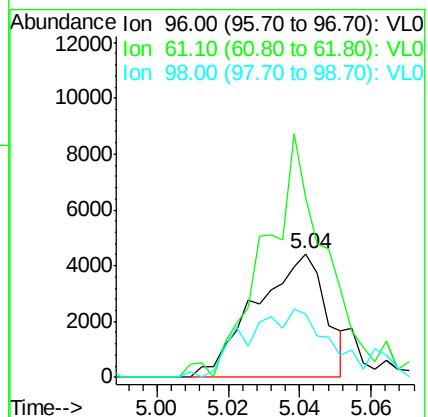
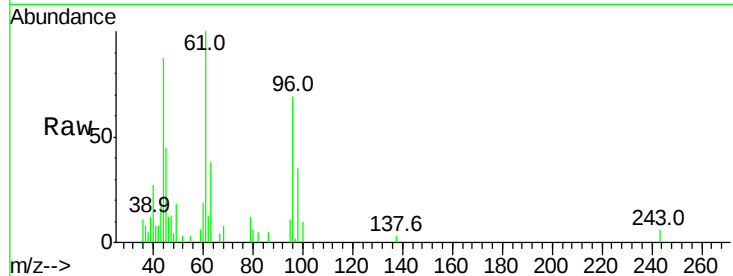
Tgt Ion: 96 Resp: 5998

Ion Ratio Lower Upper

96 100

61 134.0 139.1 208.7#

98 46.4 48.4 72.6#



#23

Vinyl Acetate

Concen: 0.056 ppbv

RT: 5.22 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Tgt Ion: 43 Resp: 18618

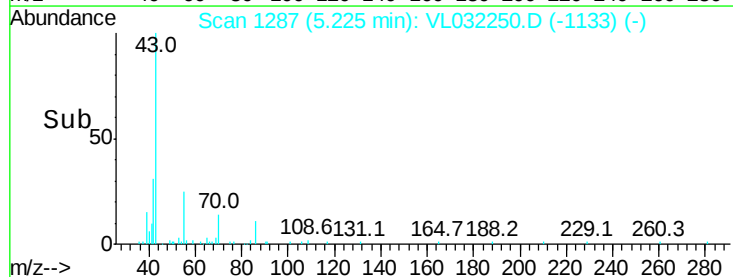
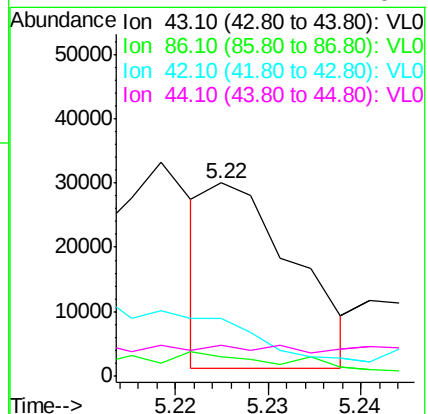
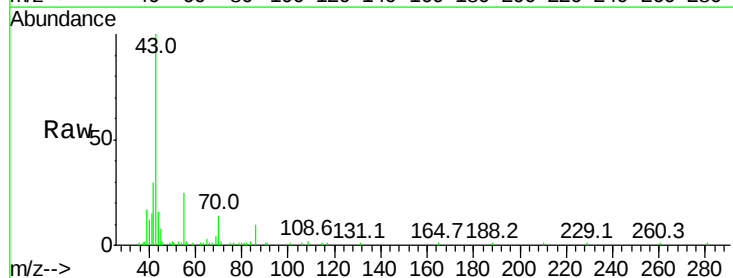
Ion Ratio Lower Upper

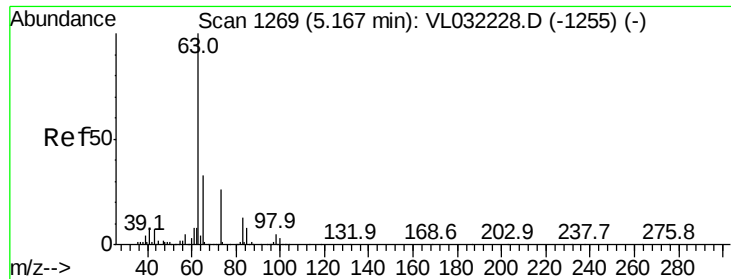
43 100

86 7.6 5.9 8.9

42 30.1 7.0 10.6#

44 4.2 4.2 6.2





#24

1,1-Dichloroethane

Concen: 1.327 ppbv

RT: 5.16 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

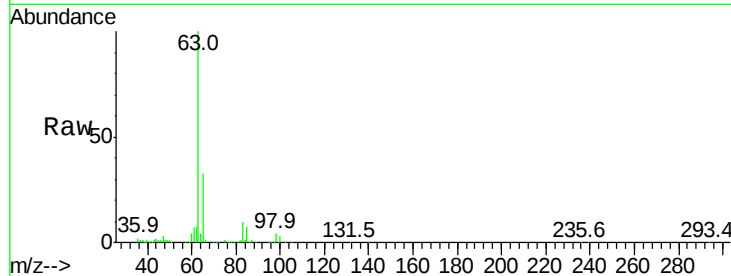
Tgt Ion: 63 Resp: 310457

Ion Ratio Lower Upper

63 100

98 4.0 2.4 7.1

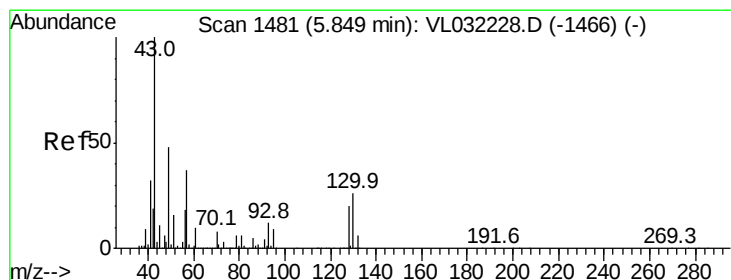
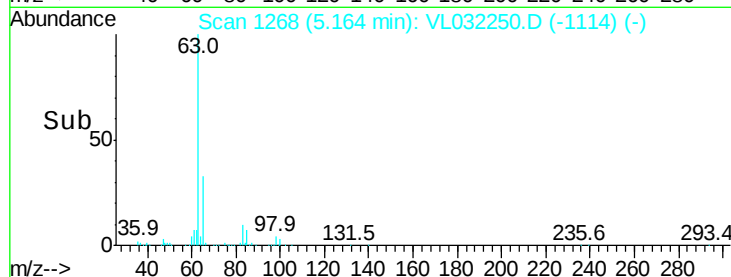
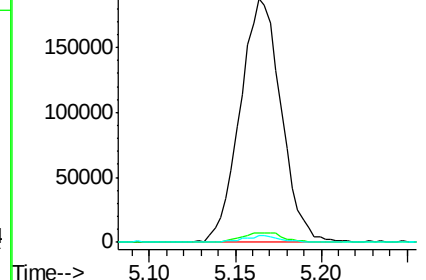
100 2.7 1.5 4.4



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: 0.209 ppbv

RT: 5.86 min Scan# 1484

Delta R.T. 0.01 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Tgt Ion: 43 Resp: 82977

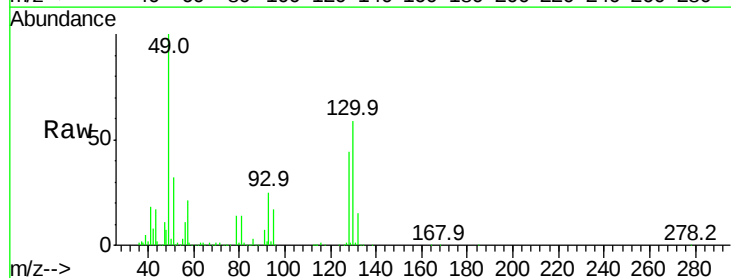
Ion Ratio Lower Upper

43 100

45 6.6 8.0 12.0#

61 3.9 7.7 11.5#

70 3.7 5.9 8.9#

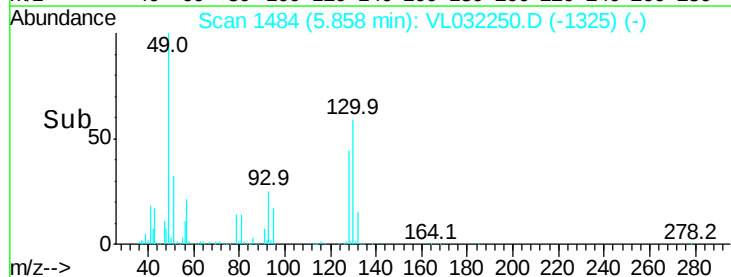
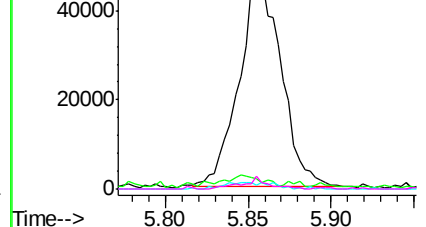


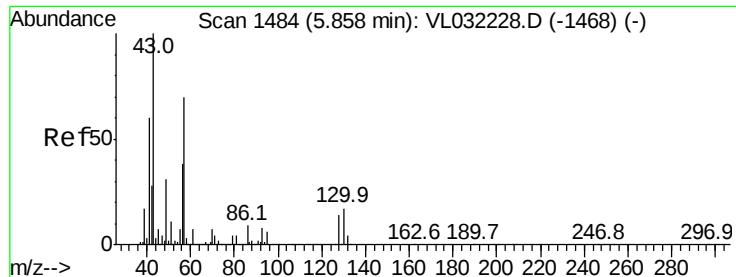
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

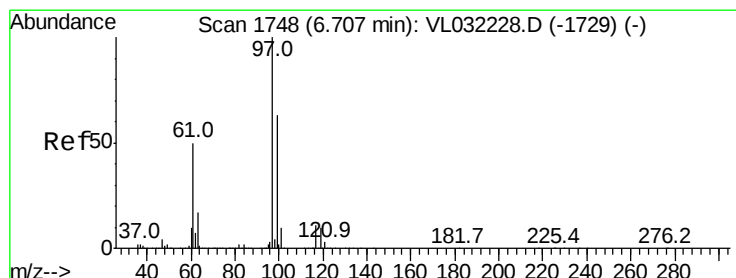
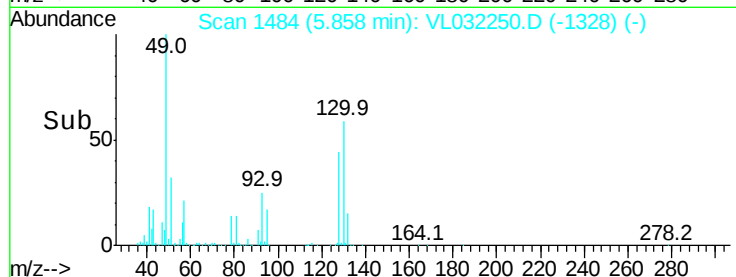
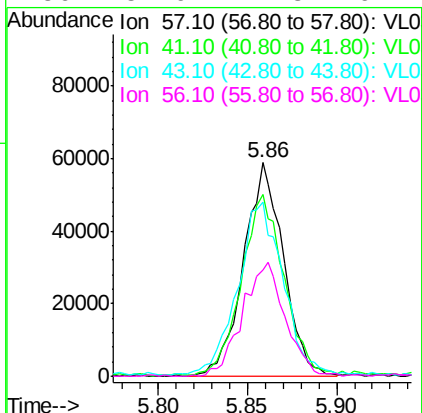
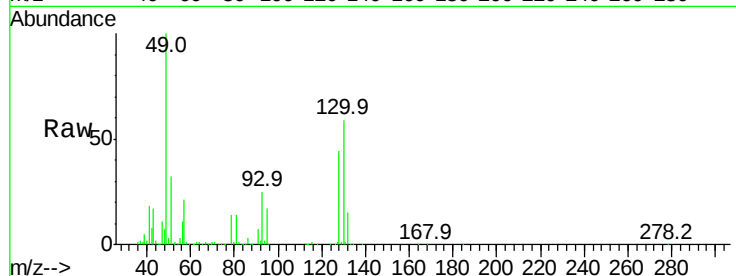




#26
Hexane
Concen: 0.509 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.00 min
Lab File: VL032250.D
Acq: 13 Jul 2018 18:02

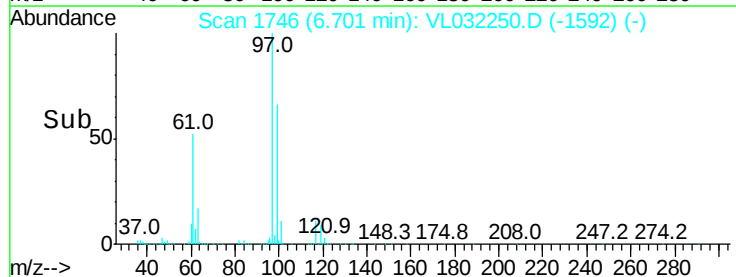
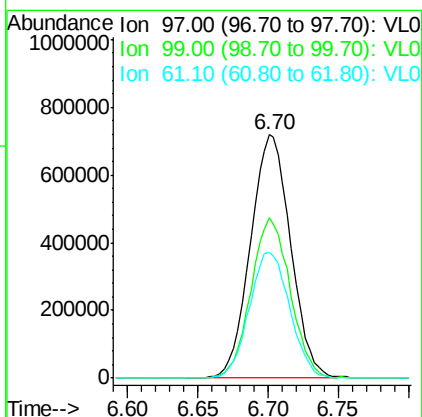
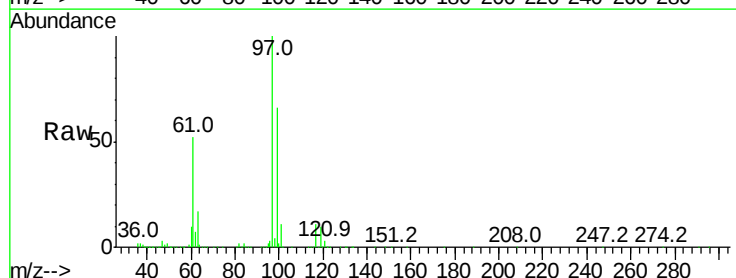
Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

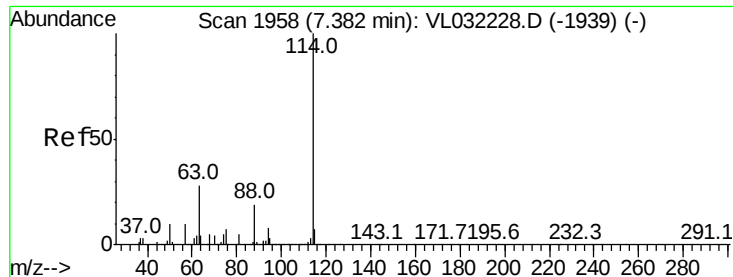
Tgt Ion: 57 Resp: 92084
Ion Ratio Lower Upper
57 100
41 91.6 68.7 103.1
43 92.4 176.2 264.2#
56 57.9 42.8 64.2



#32
1,1,1-Trichloroethane
Concen: 5.278 ppbv
RT: 6.70 min Scan# 1746
Delta R.T. -0.01 min
Lab File: VL032250.D
Acq: 13 Jul 2018 18:02

Tgt Ion: 97 Resp: 1429854
Ion Ratio Lower Upper
97 100
99 64.4 51.2 76.8
61 52.1 41.3 61.9

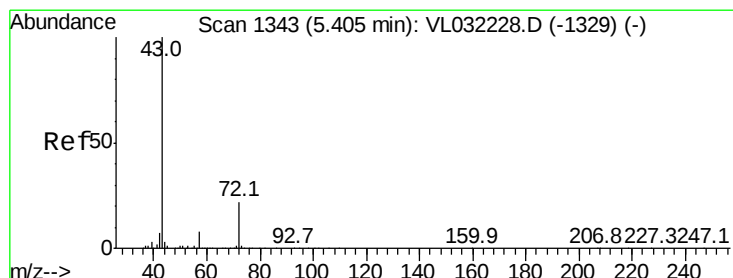
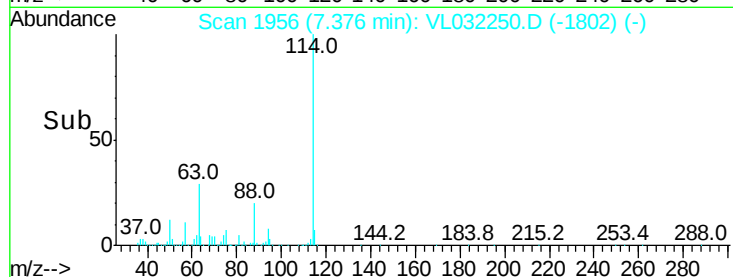
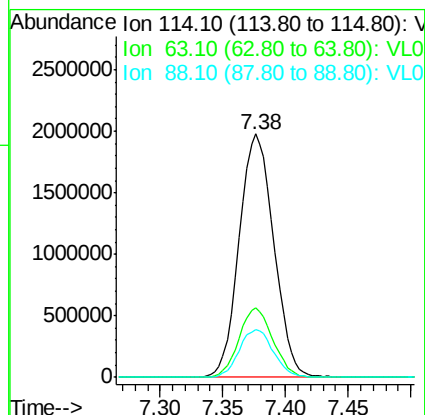
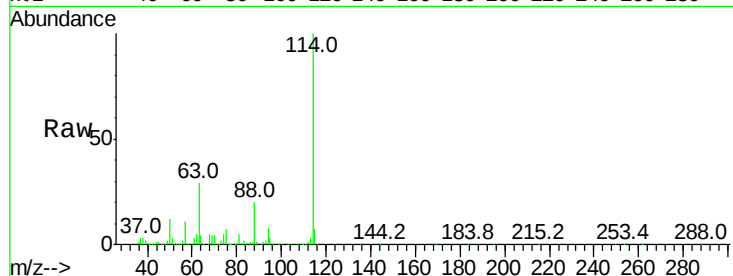




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.38 min Scan# 1956
 Delta R.T. -0.01 min
 Lab File: VL032250.D
 Acq: 13 Jul 2018 18:02

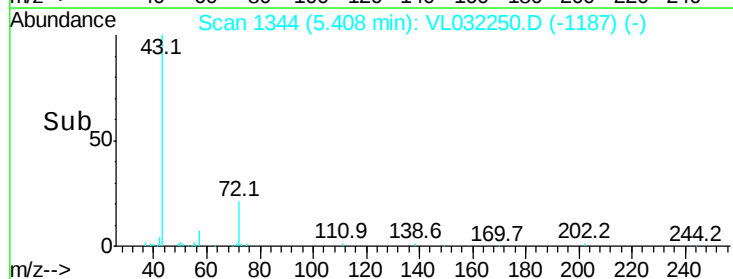
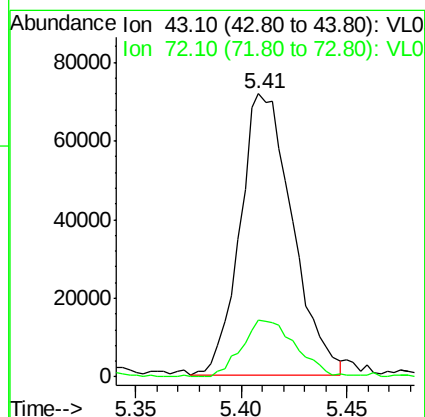
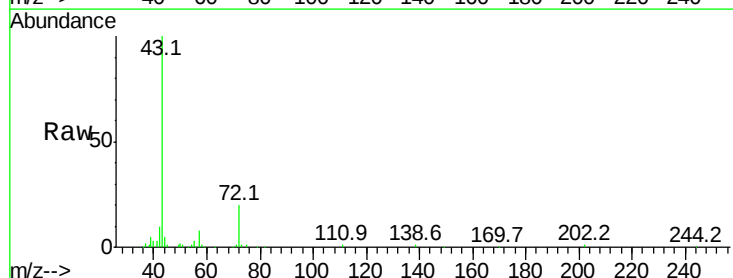
Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

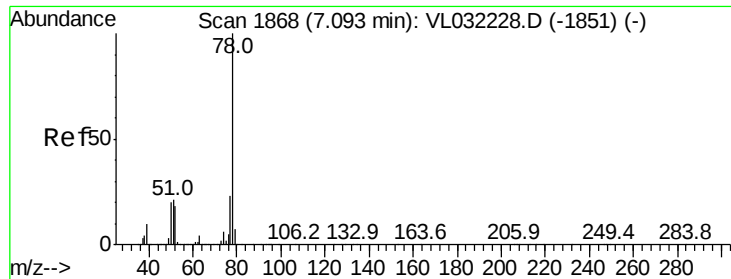
Tgt Ion:114 Resp: 3803726
 Ion Ratio Lower Upper
 114 100
 63 28.1 22.5 33.7
 88 19.5 15.4 23.0



#34
 2-Butanone
 Concen: 0.479 ppbv
 RT: 5.41 min Scan# 1344
 Delta R.T. 0.00 min
 Lab File: VL032250.D
 Acq: 13 Jul 2018 18:02

Tgt Ion: 43 Resp: 124212
 Ion Ratio Lower Upper
 43 100
 72 21.1 18.1 27.1





#36

Benzene

Concen: 0.045 ppbv

RT: 7.09 min Scan# 1868

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

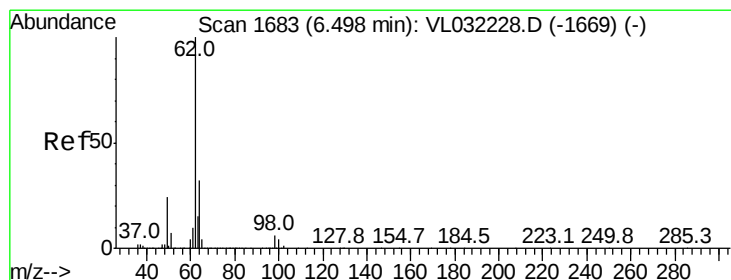
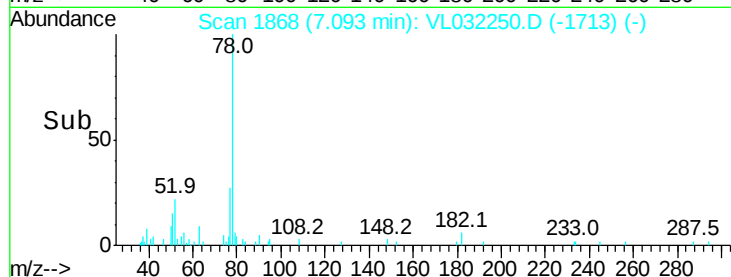
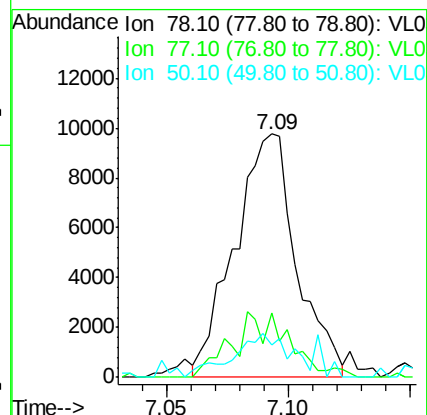
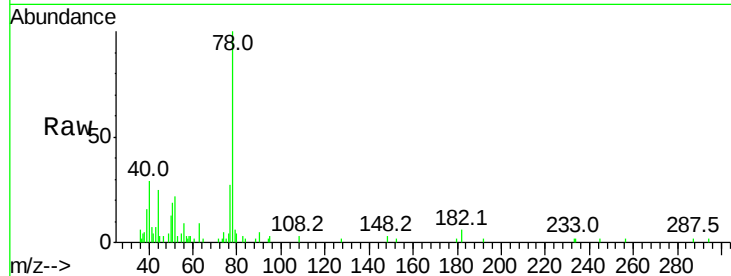
Tgt Ion: 78 Resp: 17199

Ion Ratio Lower Upper

78 100

77 28.0 18.0 27.0#

50 13.9 15.8 23.8#



#37

1,2-Dichloroethane

Concen: 0.471 ppbv

RT: 6.70 min Scan# 1746

Delta R.T. 0.20 min

Lab File: VL032250.D

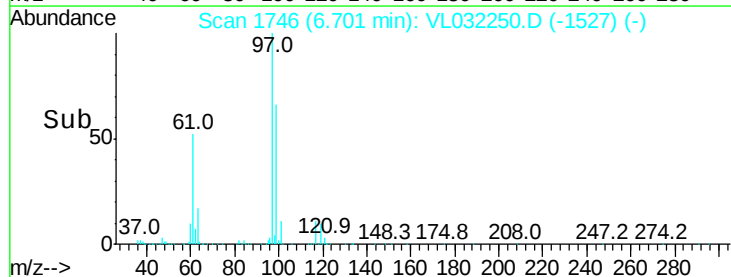
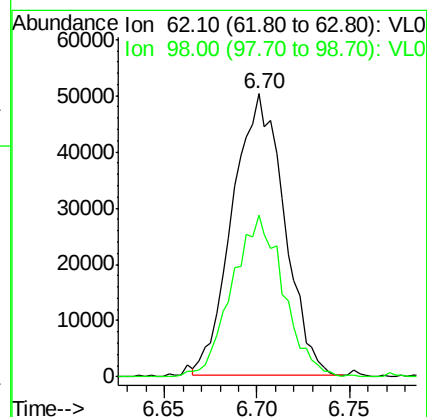
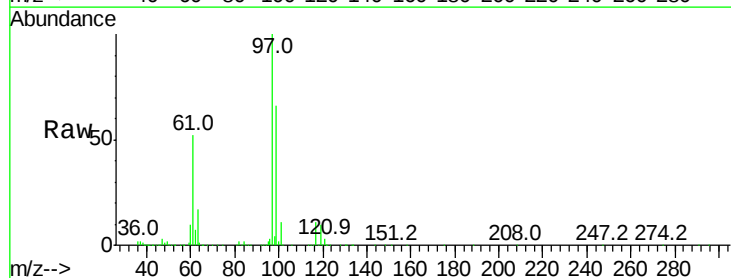
Acq: 13 Jul 2018 18:02

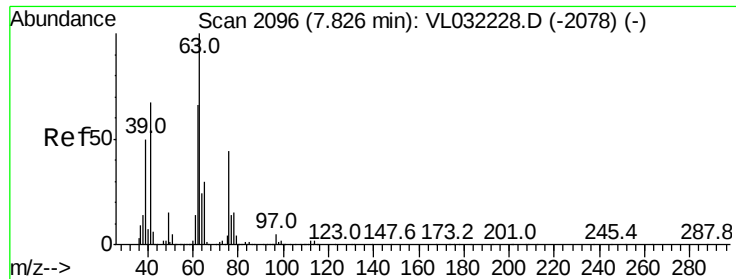
Tgt Ion: 62 Resp: 97444

Ion Ratio Lower Upper

62 100

98 56.9 4.6 7.0#





#39

1,2-Dichloropropane

Concen: 7.081 ppbv

RT: 7.38 min Scan# 1956

Delta R.T. -0.45 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

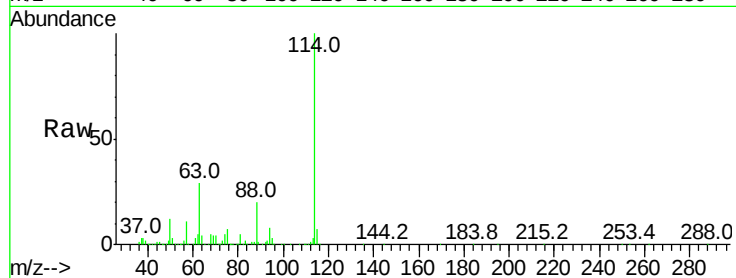
Tgt Ion: 63 Resp: 1063792

Ion Ratio Lower Upper

63 100

41 0.0 53.8 80.6#

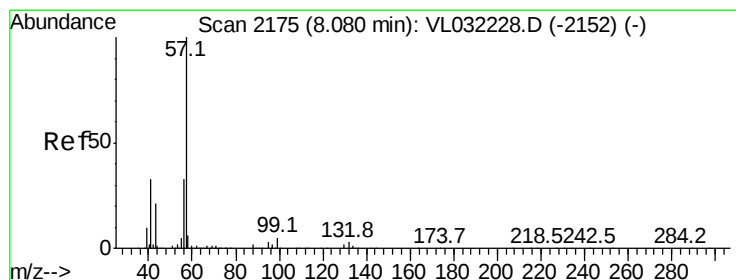
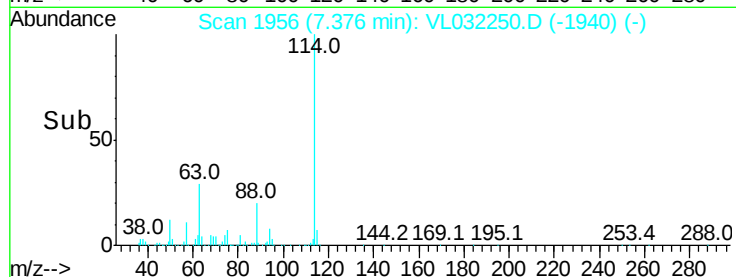
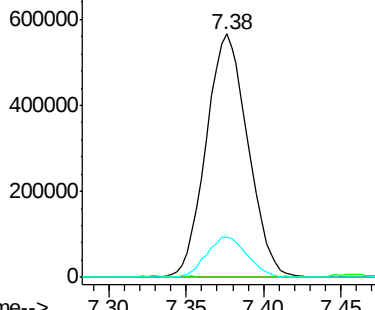
62 16.6 53.1 79.7#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.160 ppbv

RT: 8.08 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

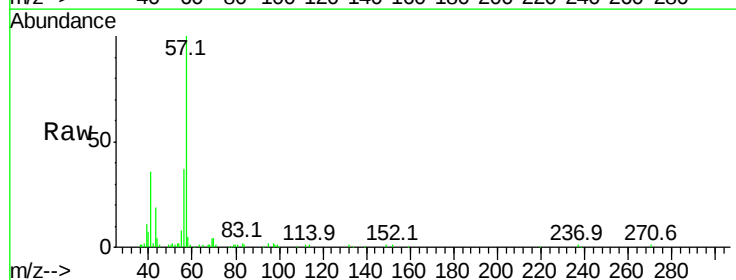
Tgt Ion: 57 Resp: 104199

Ion Ratio Lower Upper

57 100

41 40.8 24.7 37.1#

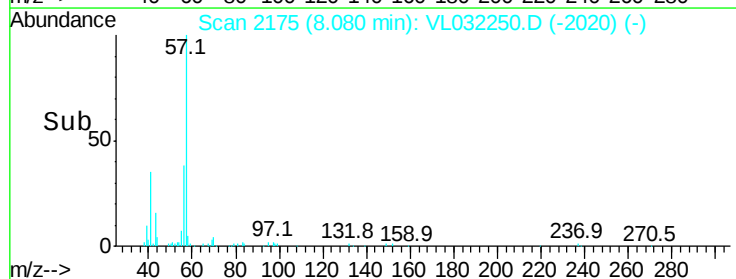
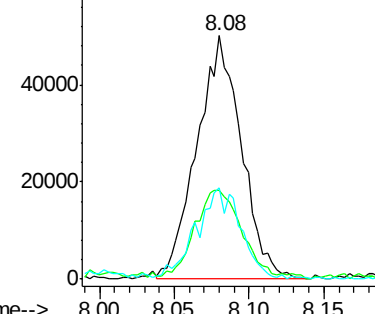
56 38.4 25.4 38.0#

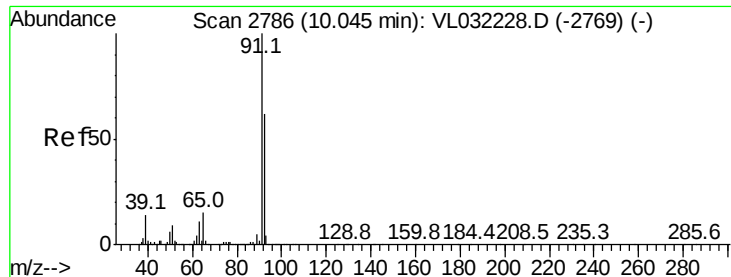


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.314 ppbv

RT: 10.04 min Scan# 2784

Delta R.T. -0.01 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

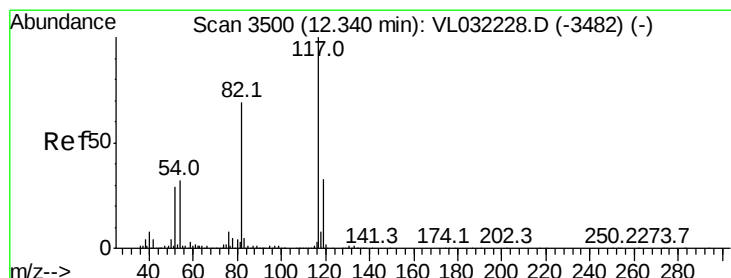
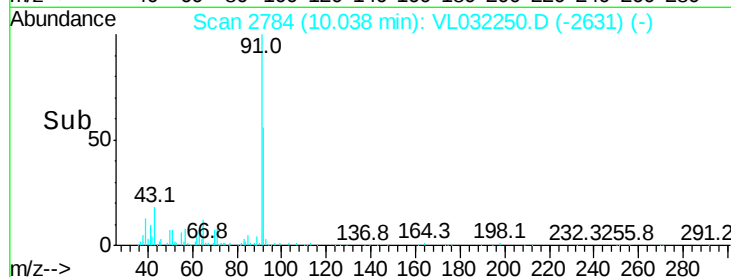
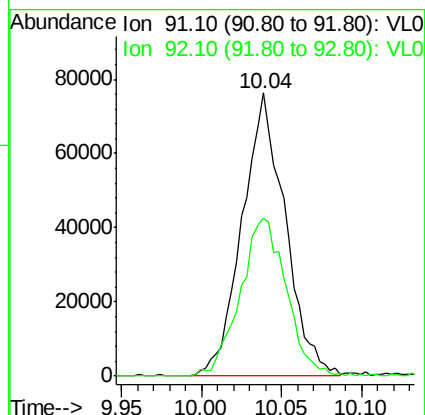
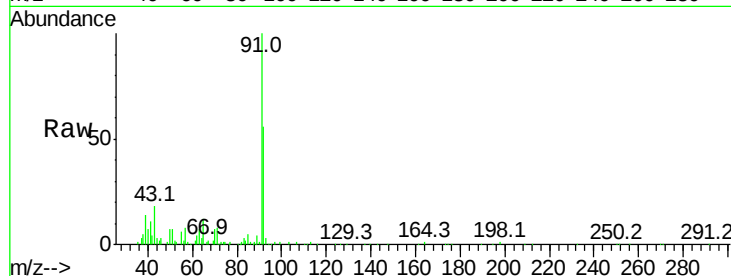
EFFLUENTDL

Tgt Ion: 91 Resp: 140434

Ion Ratio Lower Upper

91 100

92 60.0 49.0 73.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.33 min Scan# 3498

Delta R.T. -0.01 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

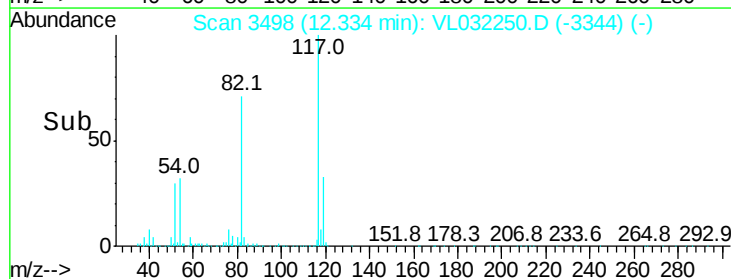
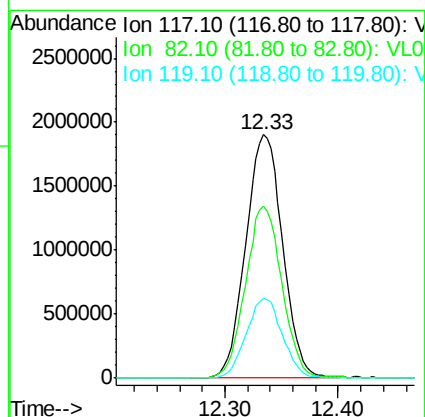
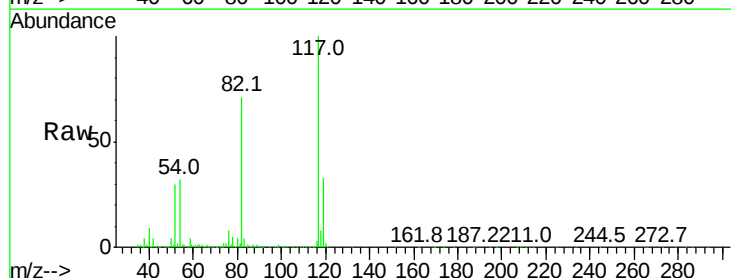
Tgt Ion: 117 Resp: 4308646

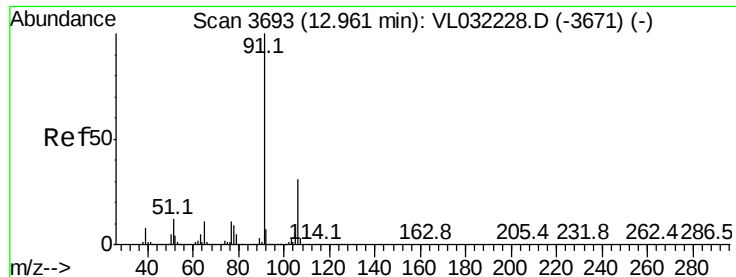
Ion Ratio Lower Upper

117 100

82 70.1 53.2 79.8

119 32.2 43.9 65.9#





#58

Ethyl Benzene

Concen: 0.027 ppbv

RT: 12.96 min Scan# 3692

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

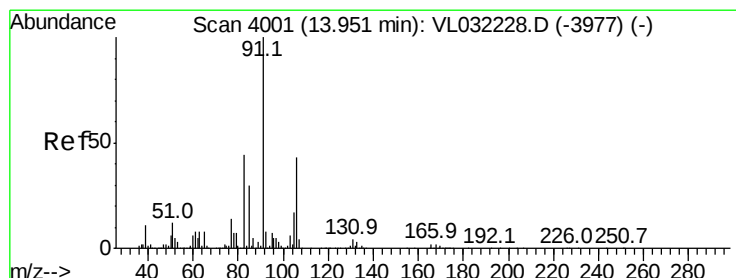
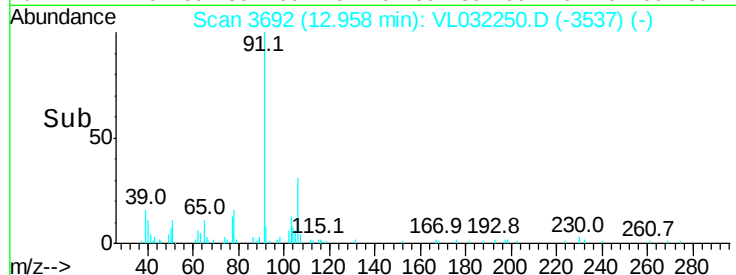
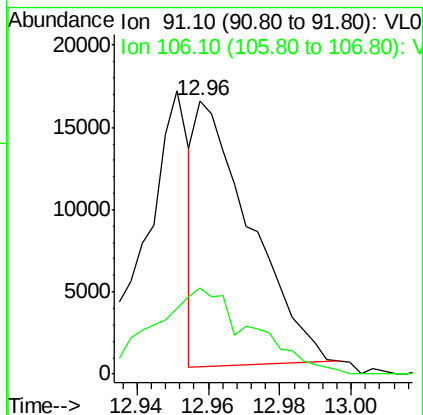
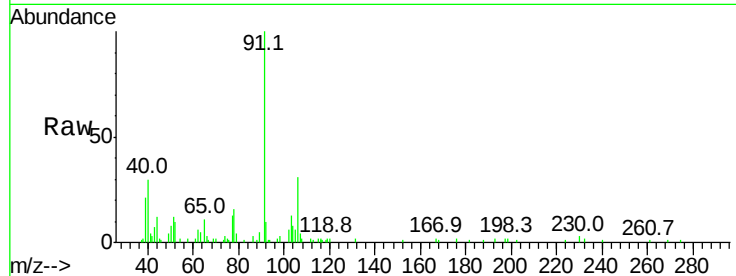
EFFLUENTDL

Tgt Ion: 91 Resp: 17231

Ion Ratio Lower Upper

91 100

106 31.5 24.5 36.7



#60

o-Xylene

Concen: 0.041 ppbv

RT: 13.94 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL032250.D

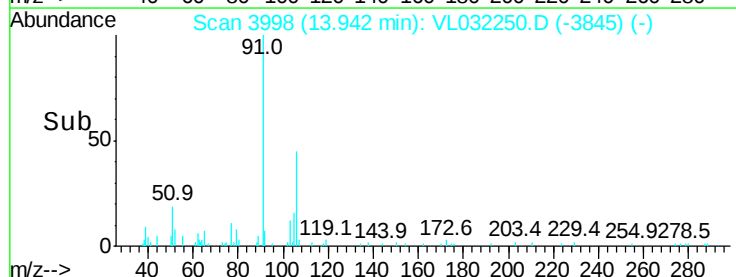
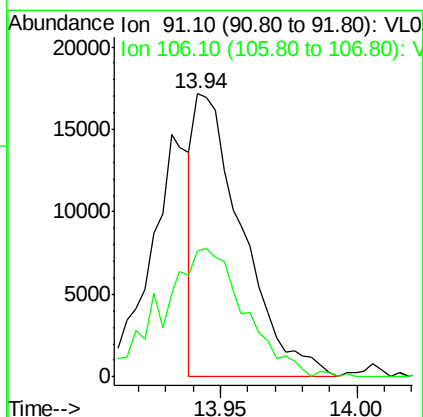
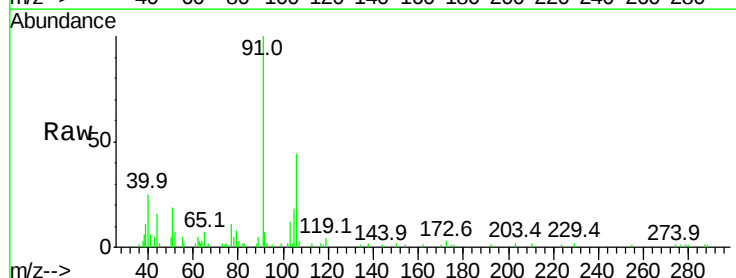
Acq: 13 Jul 2018 18:02

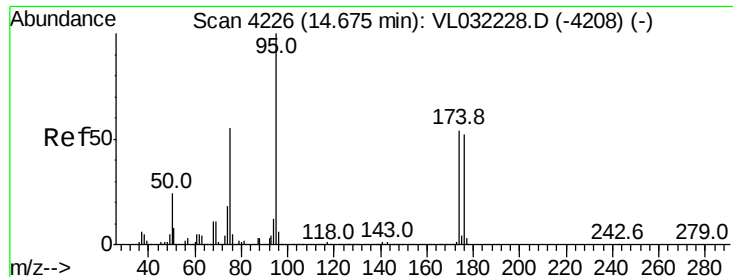
Tgt Ion: 91 Resp: 20878

Ion Ratio Lower Upper

91 100

106 80.2 21.9 65.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.058 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.00 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

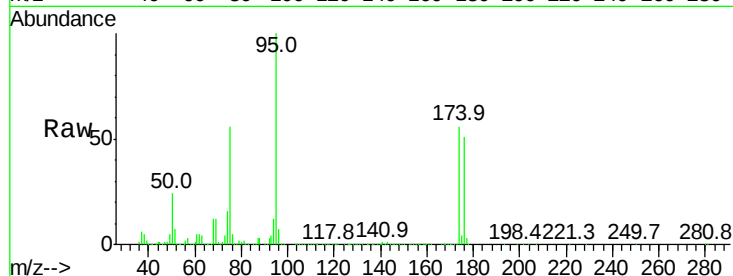
Tgt Ion: 95 Resp: 3354632

Ion Ratio Lower Upper

95 100

174 55.6 44.6 67.0

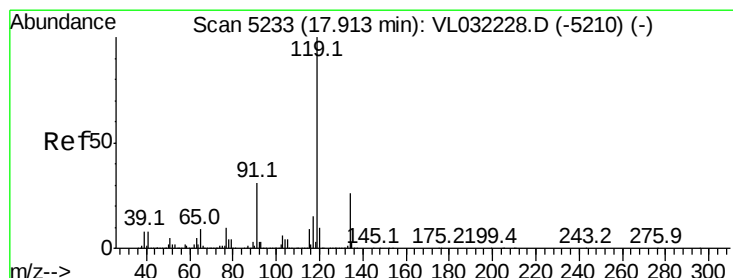
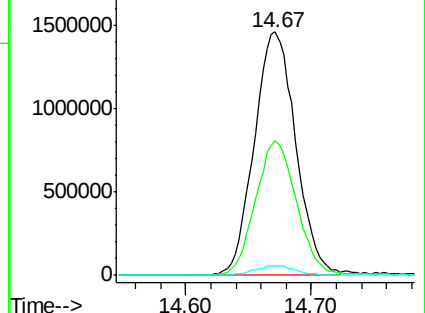
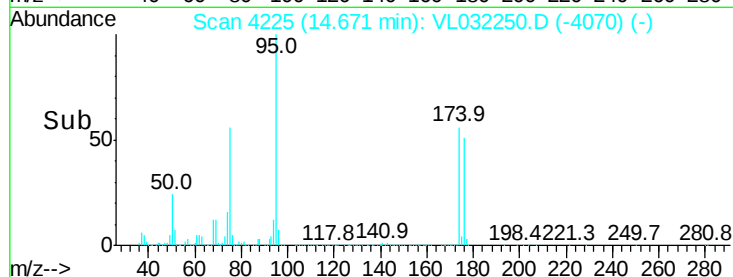
175 3.9 3.3 4.9



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: 0.210 ppbv

RT: 17.91 min Scan# 5231

Delta R.T. -0.01 min

Lab File: VL032250.D

Acq: 13 Jul 2018 18:02

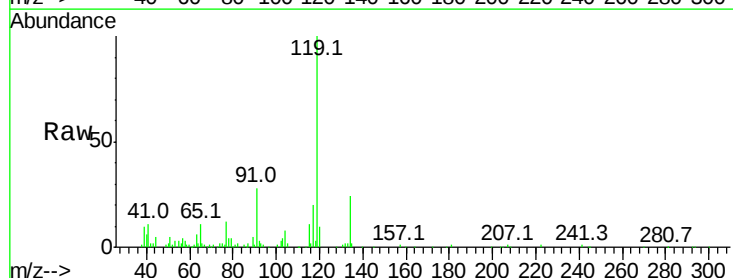
Tgt Ion: 119 Resp: 143251

Ion Ratio Lower Upper

119 100

134 25.8 20.1 30.1

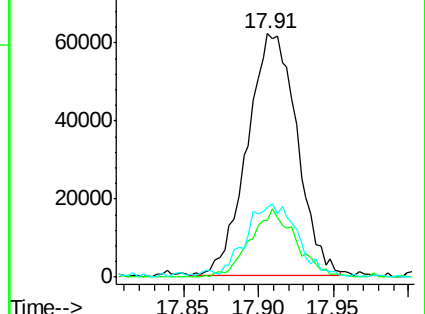
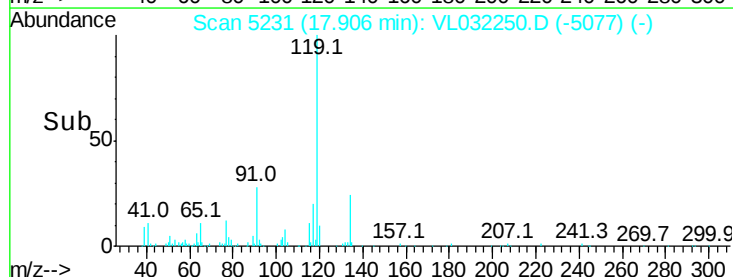
91 33.3 24.2 36.2

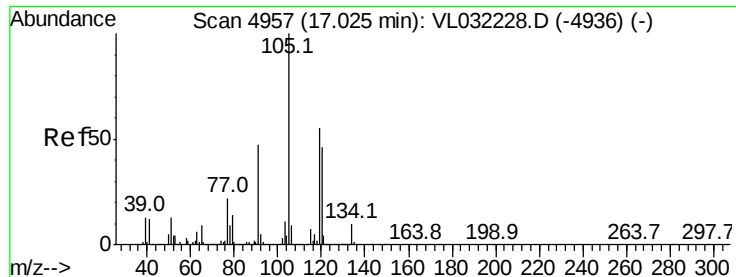


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

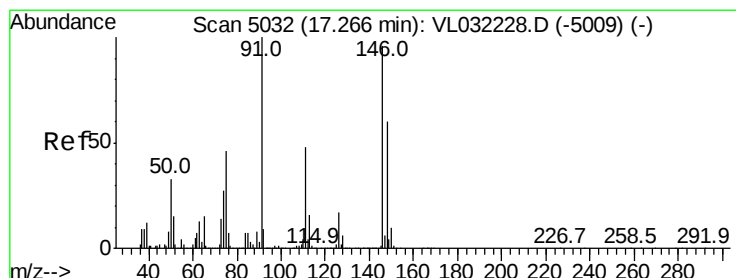
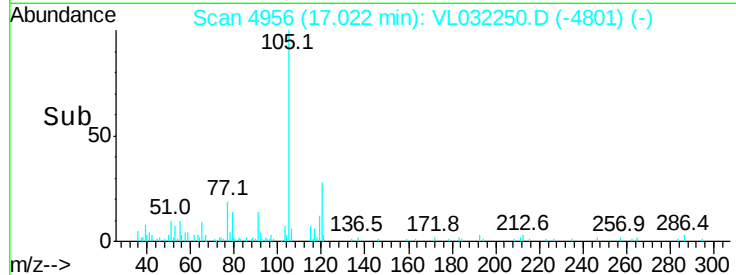
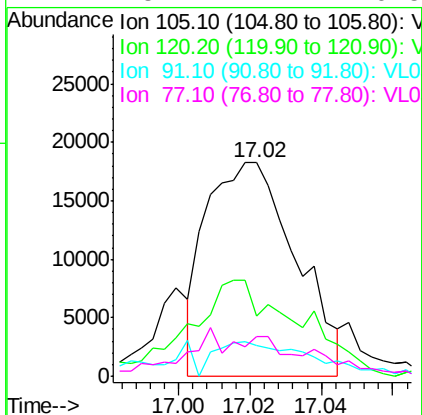
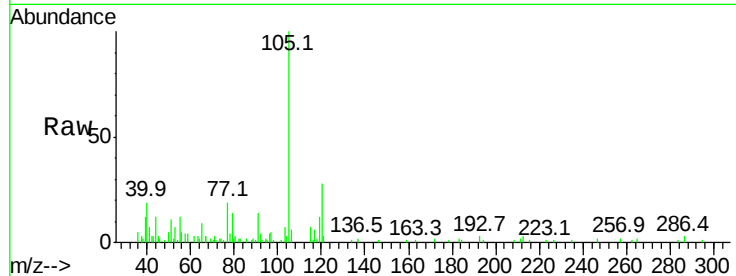




#74
 1,2,4-Trimethylbenzene
 Concen: 0.058 ppbv
 RT: 17.02 min Scan# 4956
 Delta R.T. -0.00 min
 Lab File: VL032250.D
 Acq: 13 Jul 2018 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Tgt Ion:	105	Resp:	31750
Ion Ratio	Lower	Upper	
105	100		
120	18.5	37.0	55.4#
91	9.6	38.2	57.2#
77	18.1	17.7	26.5



#75
 1,3-Dichlorobenzene
 Concen: 0.106 ppbv
 RT: 17.26 min Scan# 5031
 Delta R.T. -0.00 min
 Lab File: VL032250.D
 Acq: 13 Jul 2018 18:02

Tgt Ion:	146	Resp:	34493
Ion Ratio	Lower	Upper	
146	100		
111	85.0	24.9	74.7#
148	124.0	31.9	95.5#

