

Data File : VL032852.D
Acq On : 30 Nov 2018 17:05
Operator : SY/AP
Sample : J6132-01DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUPDL2

Quant Time: Dec 01 02:24:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1533383	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3928150	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3722831	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2798598	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

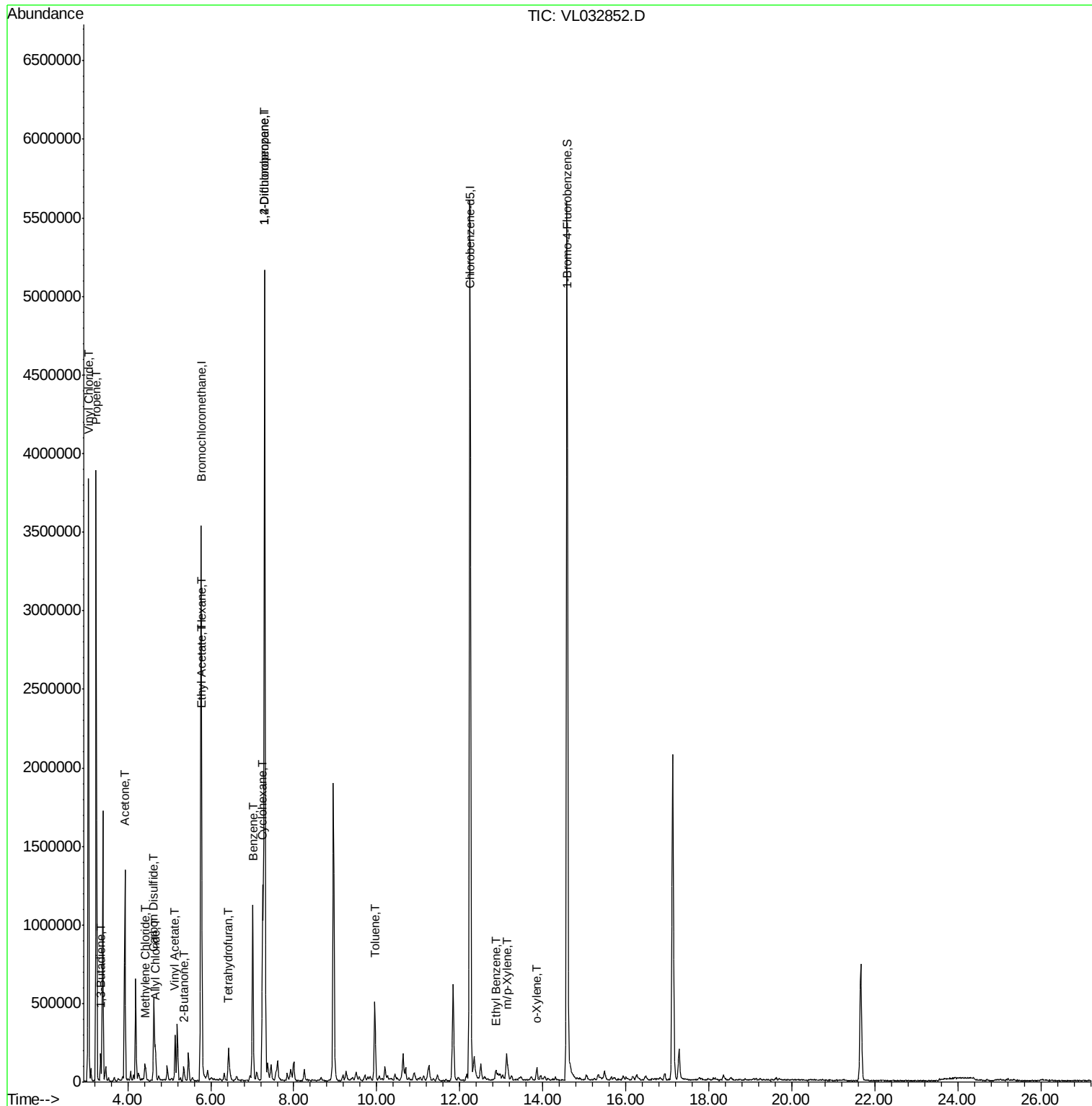
Target Compounds					Qvalue	
5) Vinyl Chloride	3.05	62	18329	0.257	ppbv #	47
9) Propene	3.24	41	1101615	22.644	ppbv	96
15) Acetone	3.93	43	559643	3.997	ppbv #	71
16) 1,3-Butadiene	3.35	39	49044	0.904	ppbv #	36
20) Methylene Chloride	4.42	84	30595	0.422	ppbv #	92
21) Allyl Chloride	4.67	41	48069	0.408	ppbv #	1
23) Vinyl Acetate	5.14	43	113655	0.445	ppbv #	1
25) Ethyl Acetate	5.79	43	121761	0.373	ppbv #	78
26) Hexane	5.79	57	170983	1.177	ppbv #	42
27) Carbon Disulfide	4.62	76	611273	3.318	ppbv	97
30) Cyclohexane	7.25	84	433421	3.411	ppbv	93
34) 2-Butanone	5.35	43	101974	0.501	ppbv	96
36) Benzene	7.01	78	893734	2.857	ppbv	99
39) 1,2-Dichloropropane	7.30	63	919156	7.712	ppbv #	23
41) Tetrahydrofuran	6.43	42	12596	0.108	ppbv #	37
53) Toluene	9.95	91	379758	1.164	ppbv	97
58) Ethyl Benzene	12.87	91	22227	0.050	ppbv #	85
59) m/p-Xylene	13.13	91	116650	0.292	ppbv #	74
60) o-Xylene	13.86	91	25303	0.063	ppbv #	32

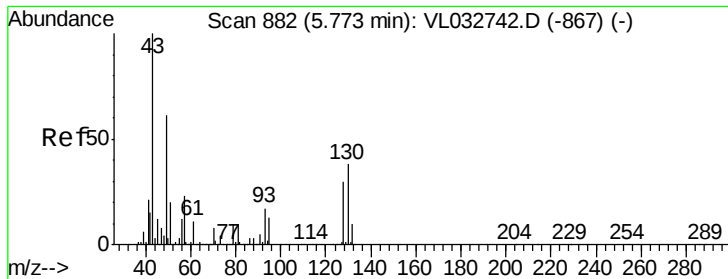
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL2

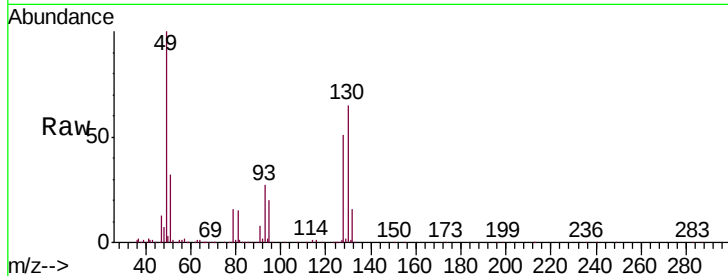
Tgt Ion: 49 Resp: 1533383

Ion Ratio Lower Upper

49 100

128 53.2 24.9 74.6

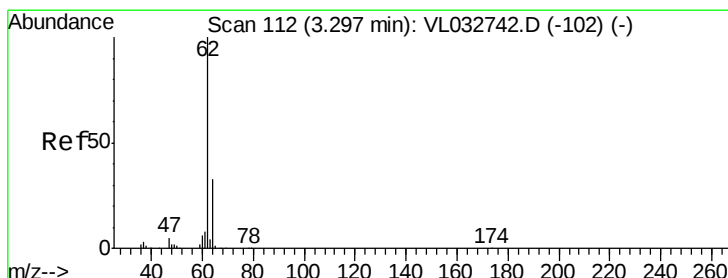
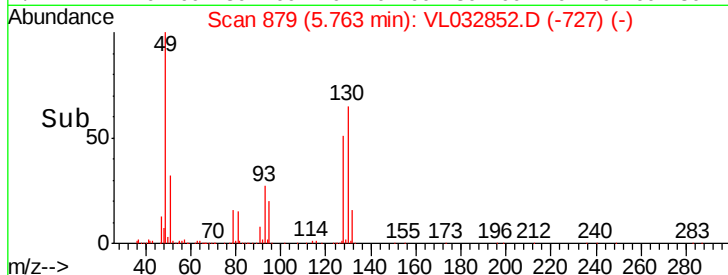
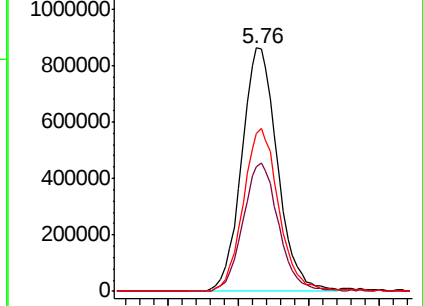
130 67.5 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.257 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.25 min

Lab File: VL032852.D

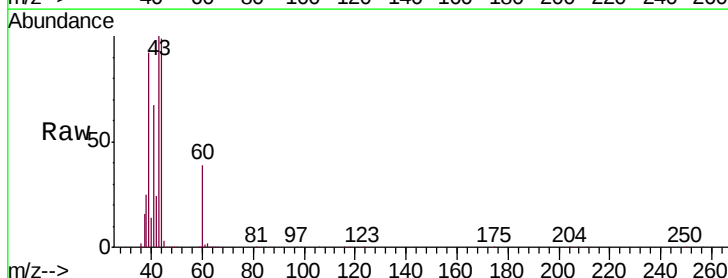
Acq: 30 Nov 2018 17:05

Tgt Ion: 62 Resp: 18329

Ion Ratio Lower Upper

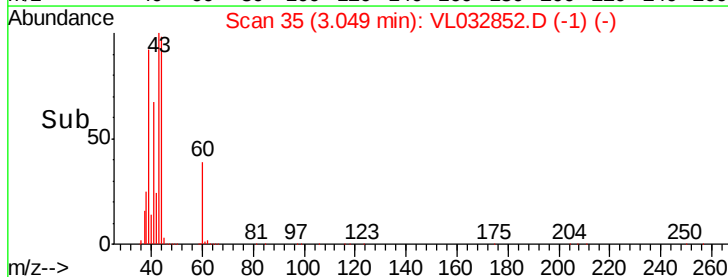
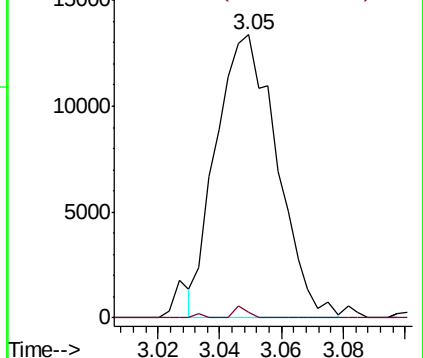
62 100

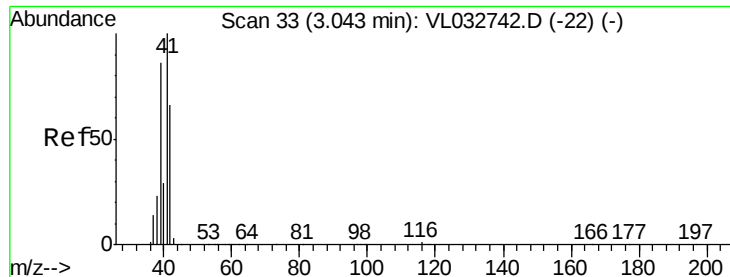
64 3.2 26.2 39.4#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 22.644 ppbv

RT: 3.24 min Scan# 94

Delta R.T. 0.20 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Instrument :

MSVOA_L

ClientSampleId :

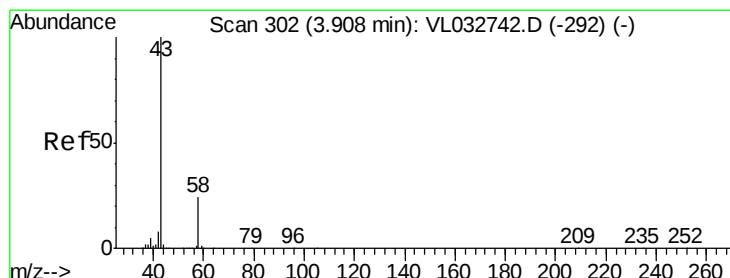
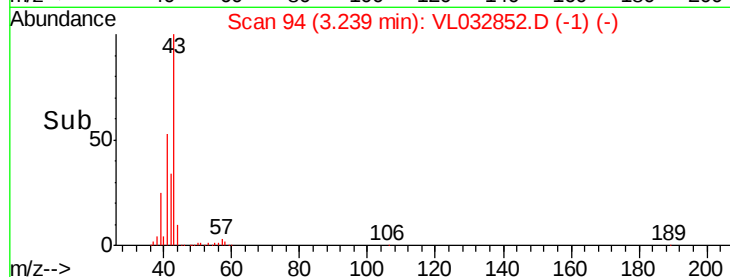
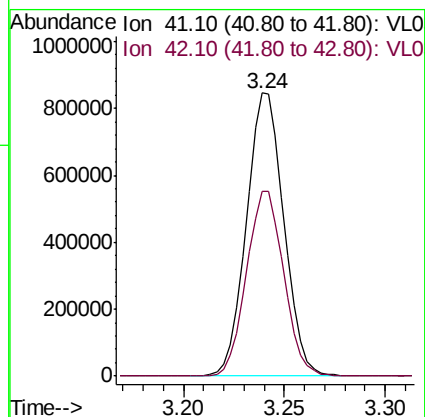
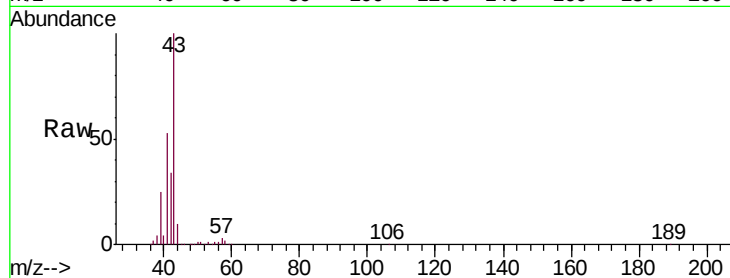
SITE-D-DUPDL2

Tgt Ion: 41 Resp: 1101615

Ion Ratio Lower Upper

41 100

42 65.7 55.0 82.6



#15

Acetone

Concen: 3.997 ppbv

RT: 3.93 min Scan# 308

Delta R.T. 0.02 min

Lab File: VL032852.D

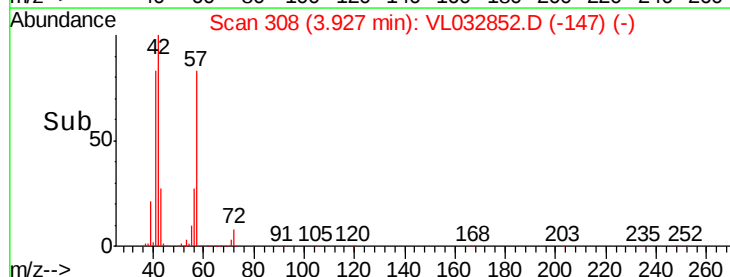
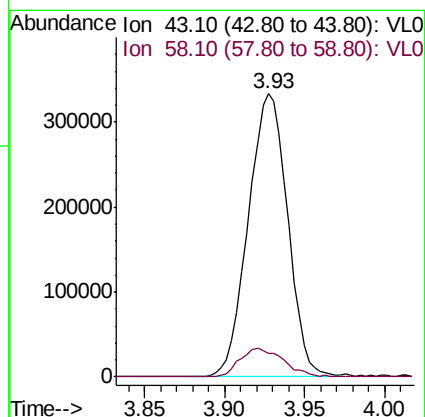
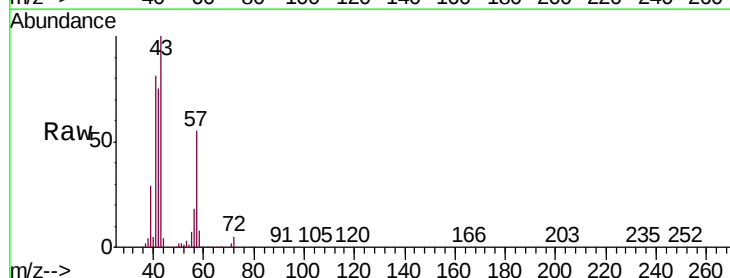
Acq: 30 Nov 2018 17:05

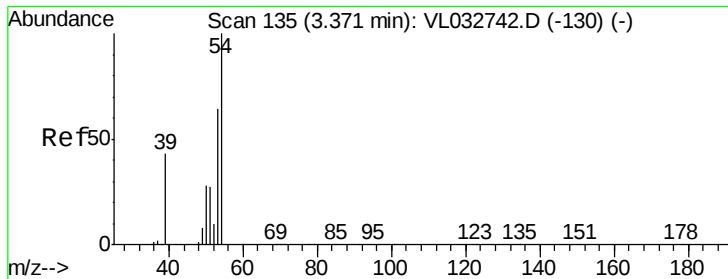
Tgt Ion: 43 Resp: 559643

Ion Ratio Lower Upper

43 100

58 11.6 21.1 31.7#





#16

1,3-Butadiene

Concen: 0.904 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Instrument :

MSVOA_L

ClientSampleId :

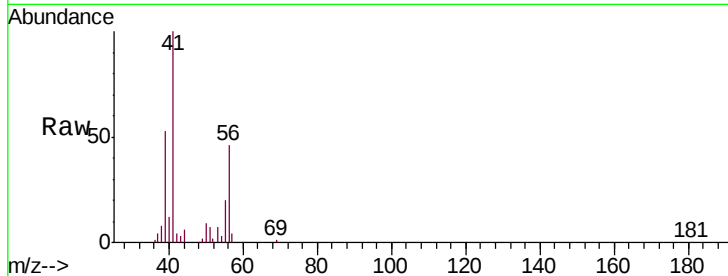
SITE-D-DUPDL2

Tgt Ion: 39 Resp: 49044

Ion Ratio Lower Upper

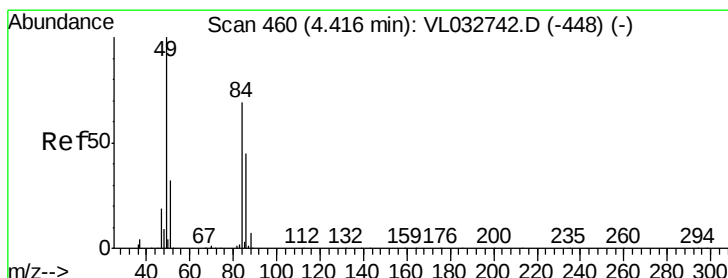
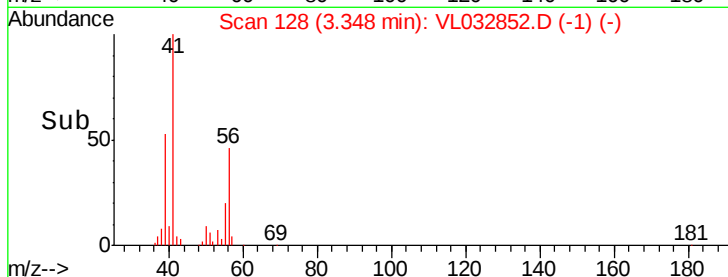
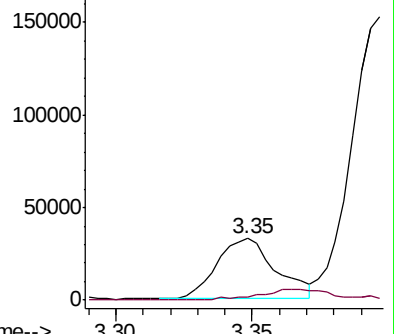
39 100

54 27.2 68.9 103.3#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#20

Methylene Chloride

Concen: 0.422 ppbv

RT: 4.42 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Tgt Ion: 84 Resp: 30595

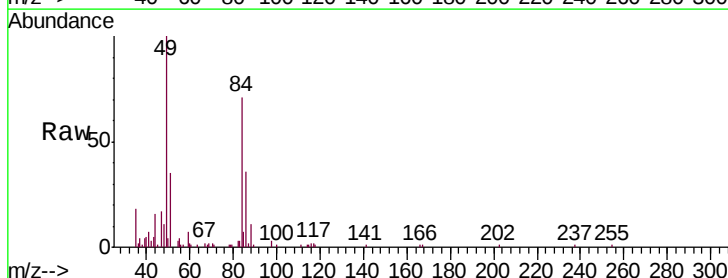
Ion Ratio Lower Upper

84 100

49 139.0 115.8 173.6

51 45.4 36.9 55.3

86 50.7 52.4 78.6#

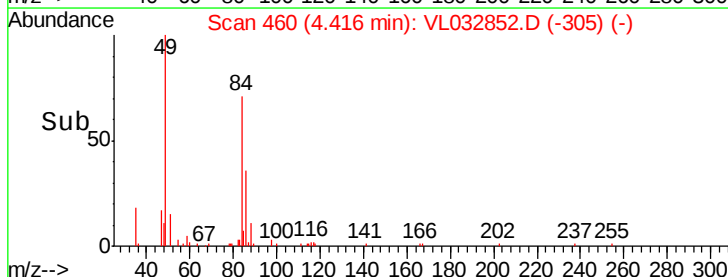
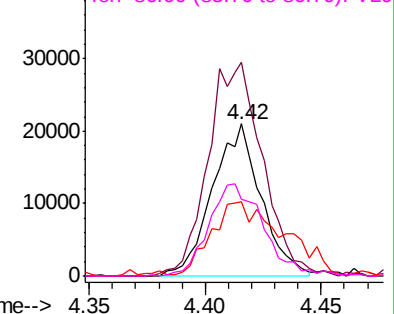


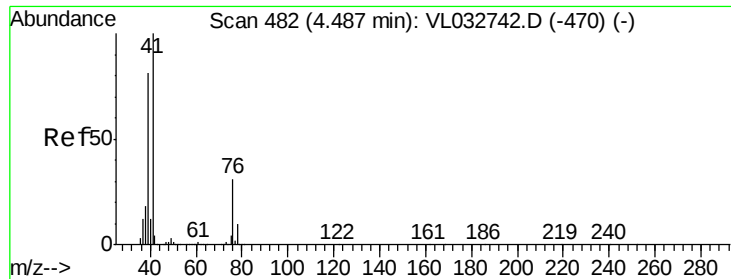
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

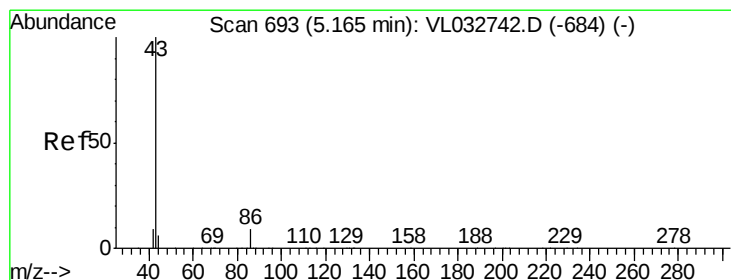
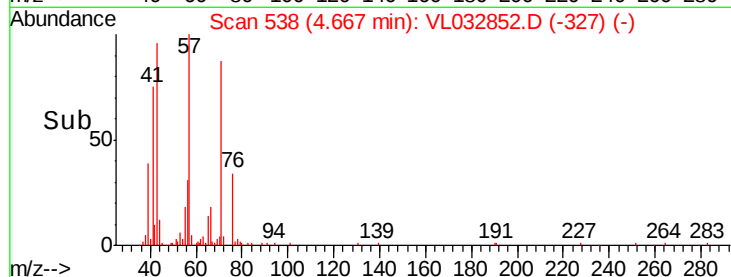
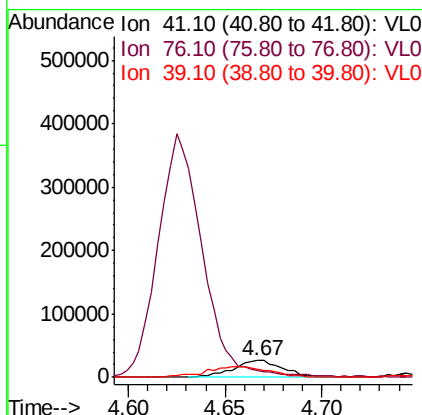
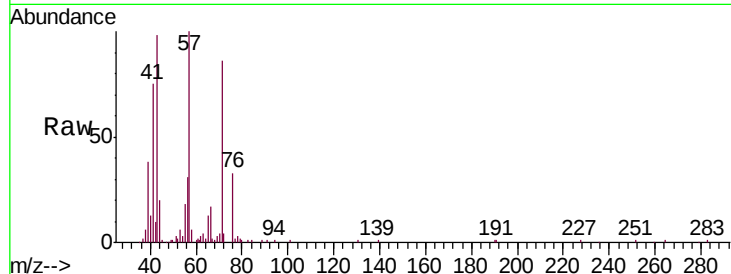




#21
 Allyl Chloride
 Concen: 0.408 ppbv
 RT: 4.67 min Scan# 538
 Delta R.T. 0.18 min
 Lab File: VL032852.D
 Acq: 30 Nov 2018 17:05

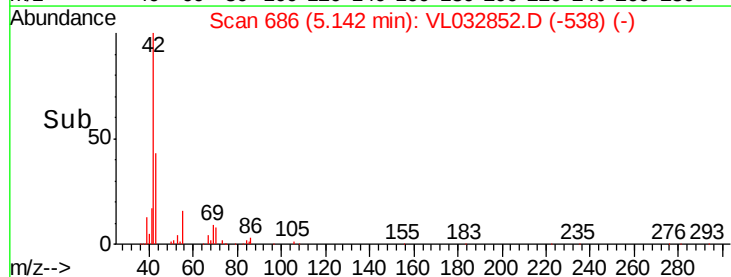
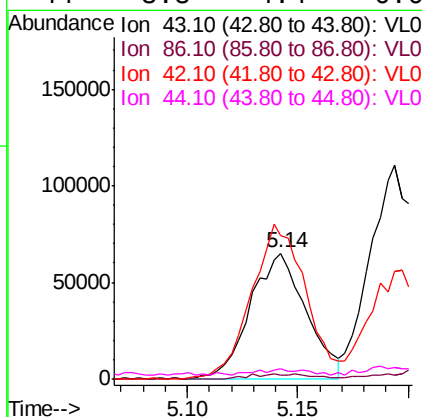
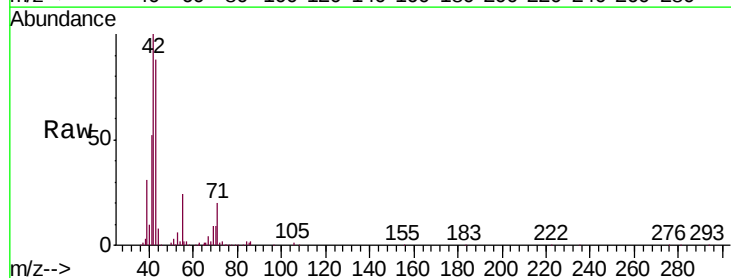
Instrument :
 MSVOA_L
 ClientSampleId :
 SITE-D-DUPDL2

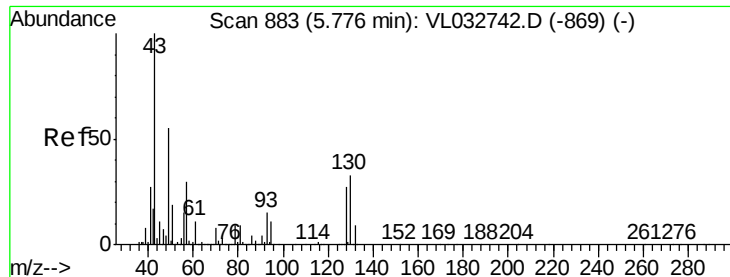
Tgt Ion: 41 Resp: 48069
 Ion Ratio Lower Upper
 41 100
 76 1289.7 24.4 36.6#
 39 87.6 63.5 95.3



#23
 Vinyl Acetate
 Concen: 0.445 ppbv
 RT: 5.14 min Scan# 686
 Delta R.T. -0.02 min
 Lab File: VL032852.D
 Acq: 30 Nov 2018 17:05

Tgt Ion: 43 Resp: 113655
 Ion Ratio Lower Upper
 43 100
 86 2.8 6.2 9.4#
 42 113.3 7.8 11.6#
 44 3.8 4.4 6.6#





#25

Ethyl Acetate

Concen: 0.373 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.01 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL2

Tgt Ion: 43 Resp: 121761

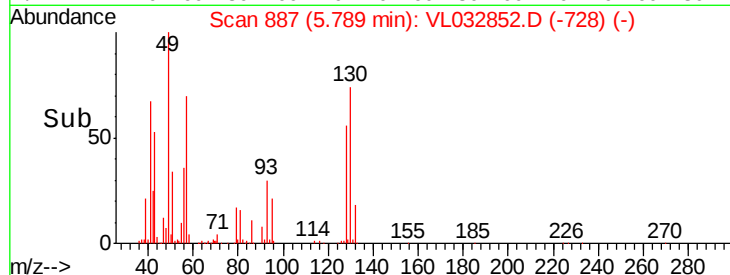
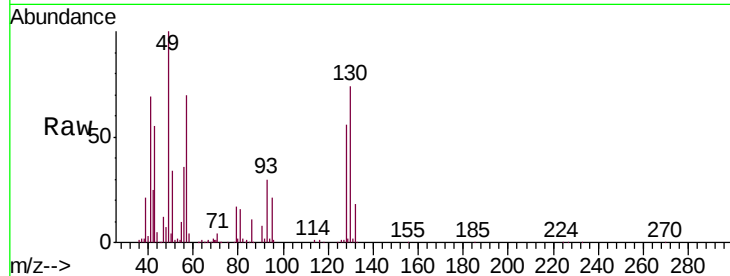
Ion Ratio Lower Upper

43 100

45 1.2 7.9 11.9#

61 0.0 7.8 11.6#

70 2.5 5.8 8.6#

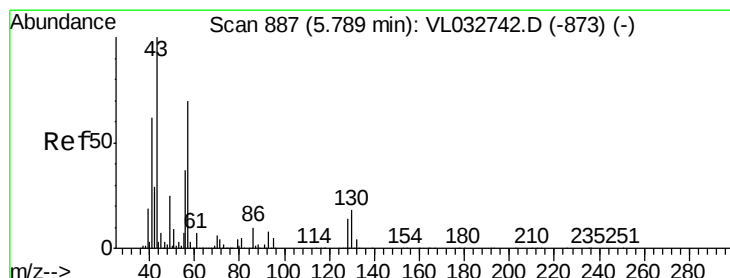
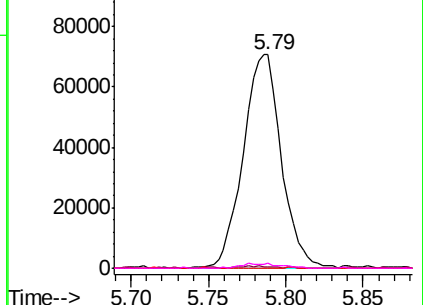


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.177 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.00 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Tgt Ion: 57 Resp: 170983

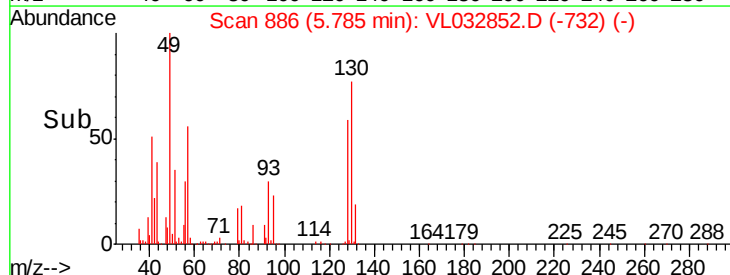
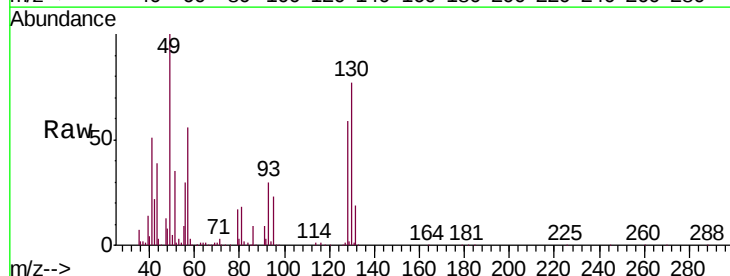
Ion Ratio Lower Upper

57 100

41 94.1 70.3 105.5

43 71.7 174.0 261.0#

56 55.5 42.3 63.5

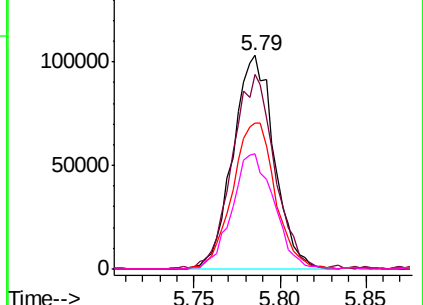


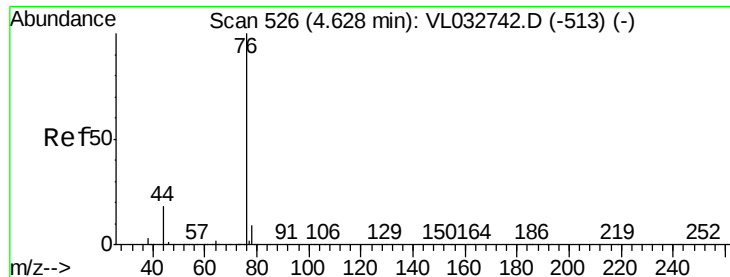
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 3.318 ppbv

RT: 4.62 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL2

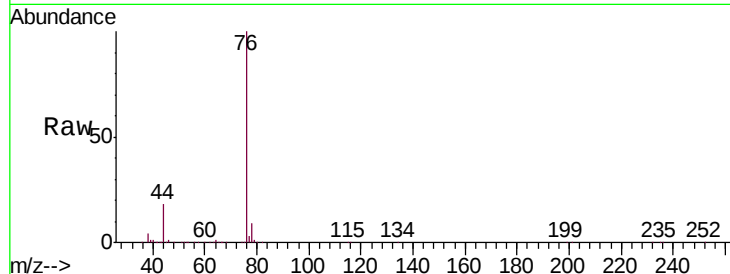
Tgt Ion: 76 Resp: 611273

Ion Ratio Lower Upper

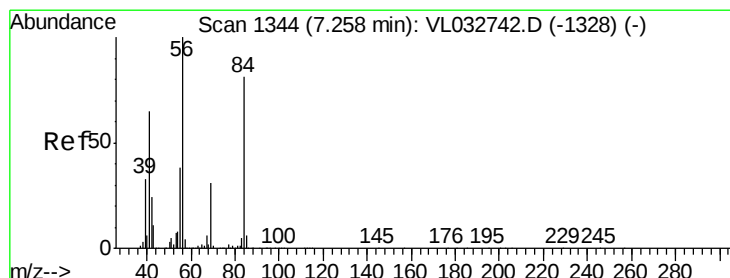
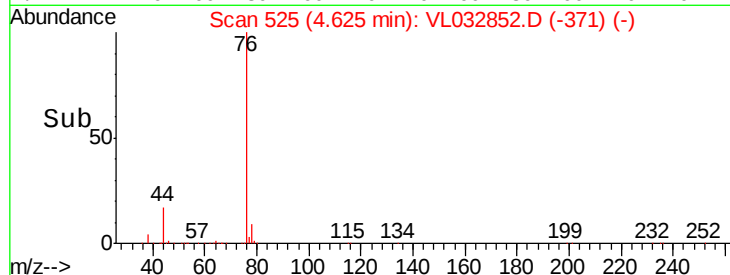
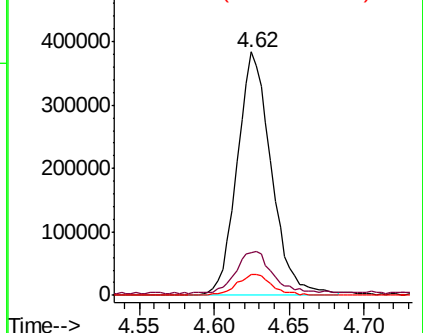
76 100

44 19.4 14.4 21.6

78 9.0 7.7 11.5



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



#30

Cyclohexane

Concen: 3.411 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.01 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

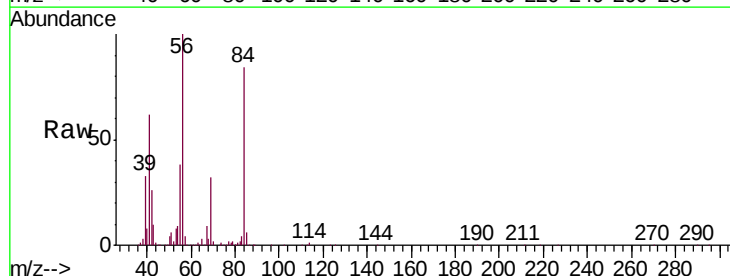
Tgt Ion: 84 Resp: 433421

Ion Ratio Lower Upper

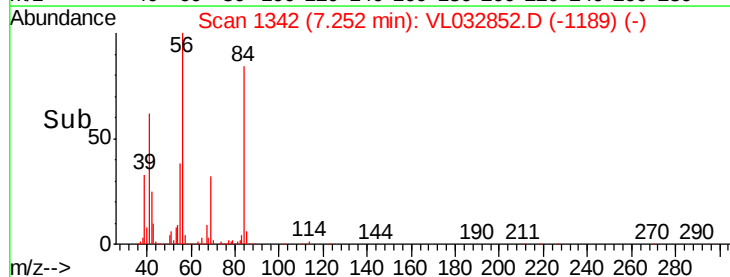
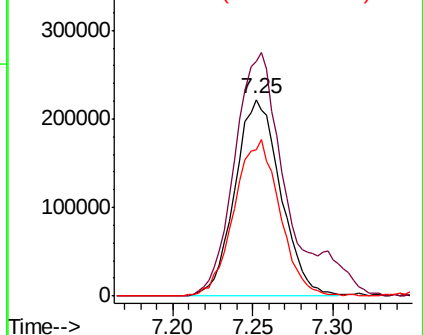
84 100

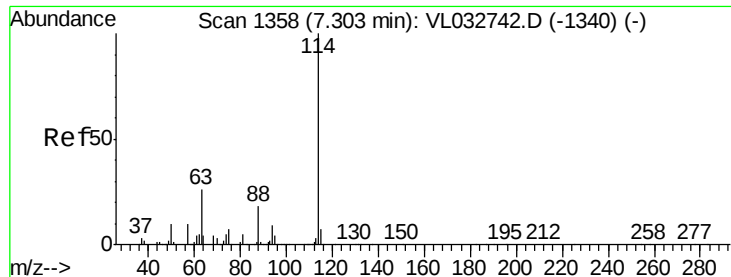
56 142.6 105.0 157.4

41 79.2 65.3 97.9



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

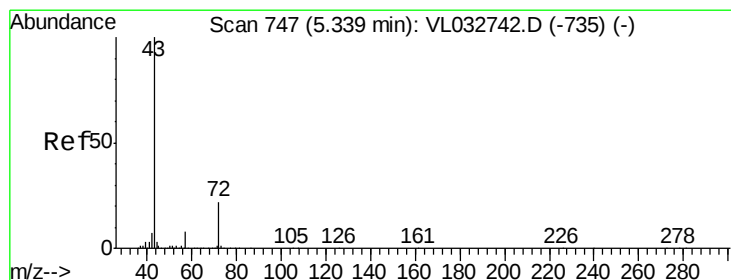
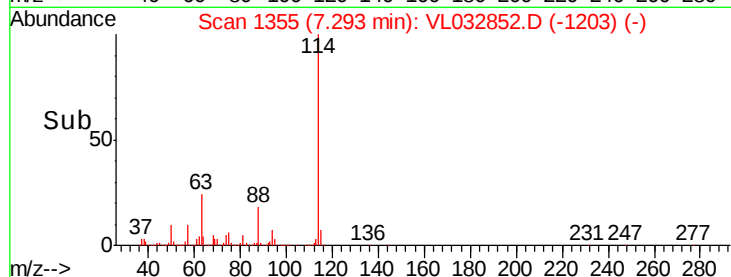
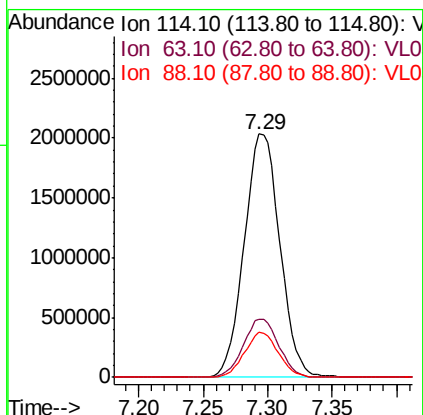
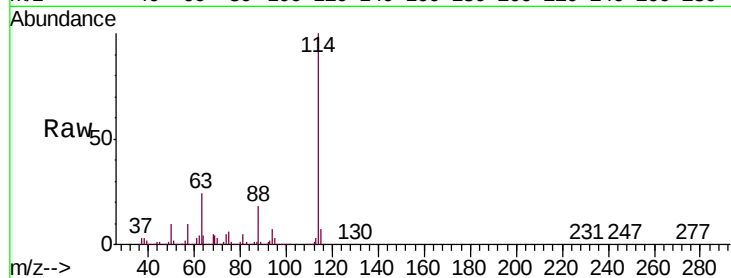




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032852.D
 Acq: 30 Nov 2018 17:05

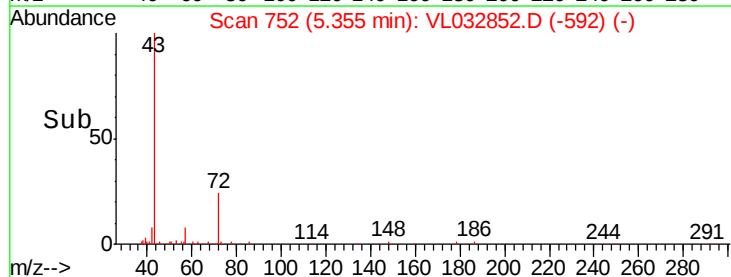
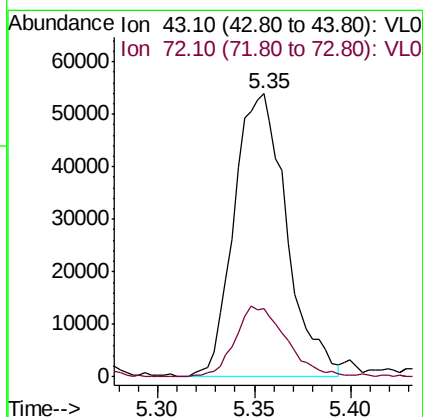
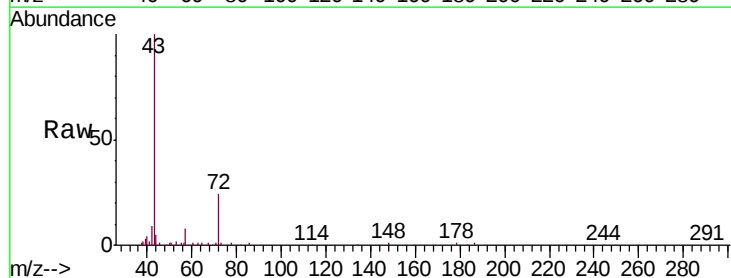
Instrument :
 MSVOA_L
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 SITE-D-DUPDL2

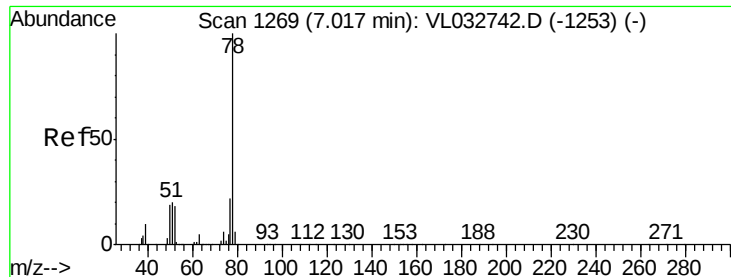
Tgt Ion:114 Resp: 3928150
 Ion Ratio Lower Upper
 114 100
 63 23.9 20.9 31.3
 88 17.5 14.4 21.6



#34
 2-Butanone
 Concen: 0.501 ppbv
 RT: 5.35 min Scan# 752
 Delta R.T. 0.02 min
 Lab File: VL032852.D
 Acq: 30 Nov 2018 17:05

Tgt Ion: 43 Resp: 101974
 Ion Ratio Lower Upper
 43 100
 72 24.8 18.4 27.6





#36

Benzene

Concen: 2.857 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL2

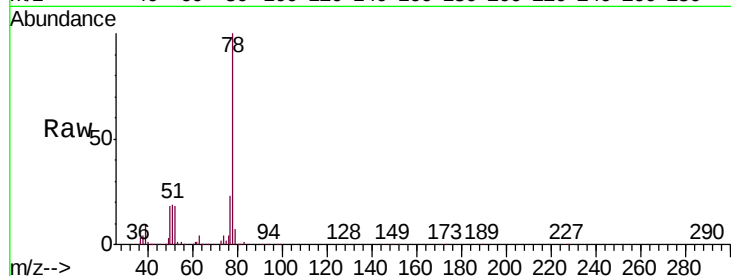
Tgt Ion: 78 Resp: 893734

Ion Ratio Lower Upper

78 100

77 22.7 17.8 26.8

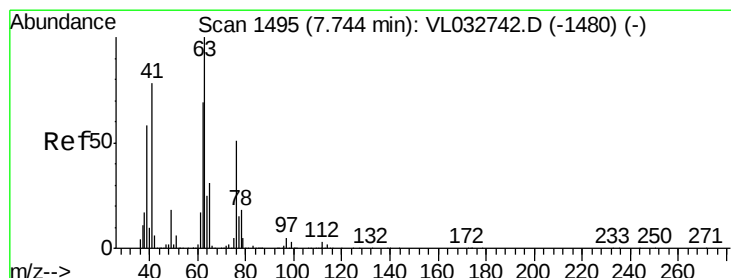
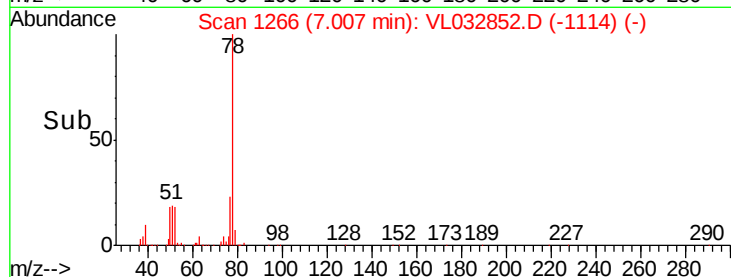
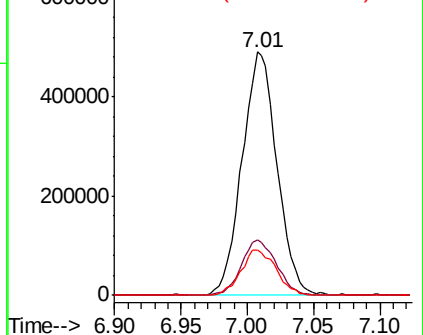
50 18.3 15.4 23.0



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



#39

1,2-Dichloropropane

Concen: 7.712 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

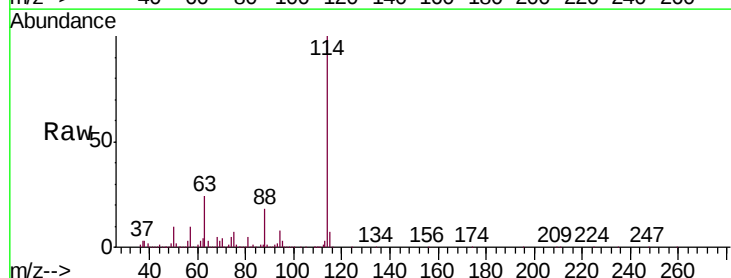
Tgt Ion: 63 Resp: 919156

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

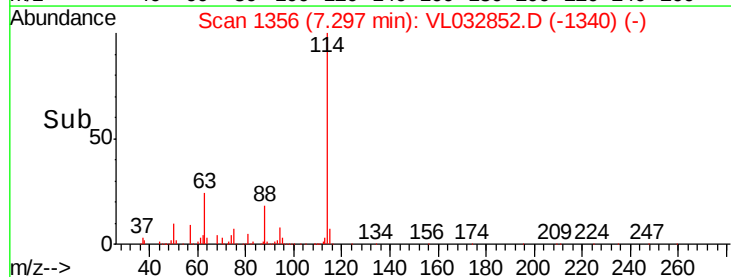
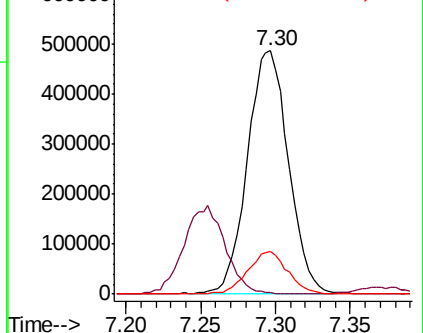
62 17.5 55.4 83.2#

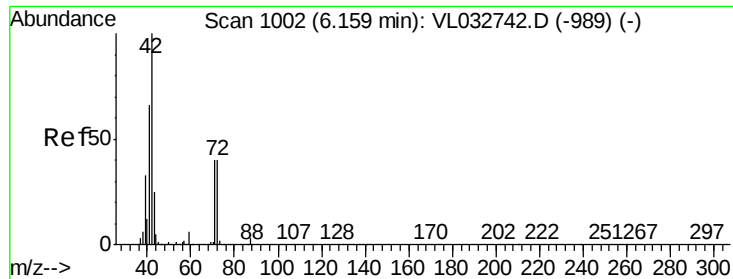


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.108 ppbv

RT: 6.43 min Scan# 1085

Delta R.T. 0.27 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL2

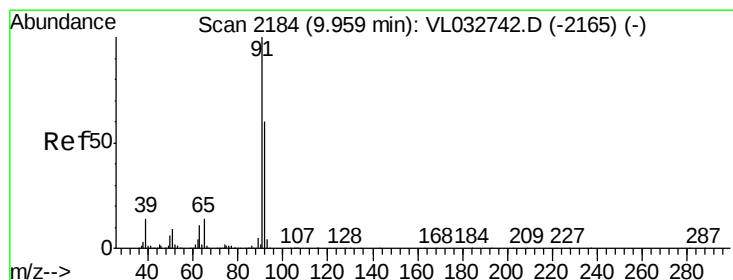
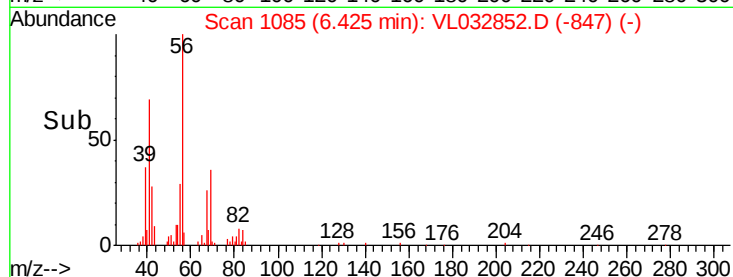
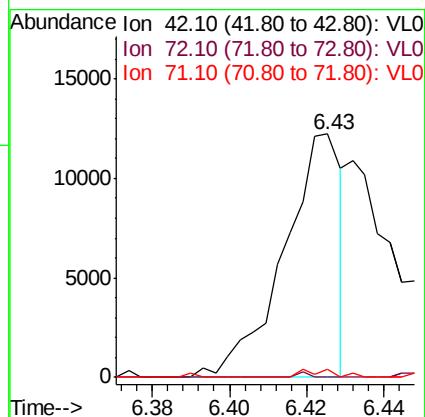
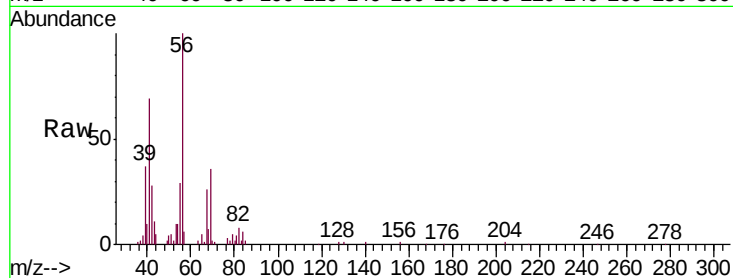
Tgt Ion: 42 Resp: 12596

Ion Ratio Lower Upper

42 100

72 2.1 32.4 48.6#

71 0.0 31.6 47.4#



#53

Toluene

Concen: 1.164 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032852.D

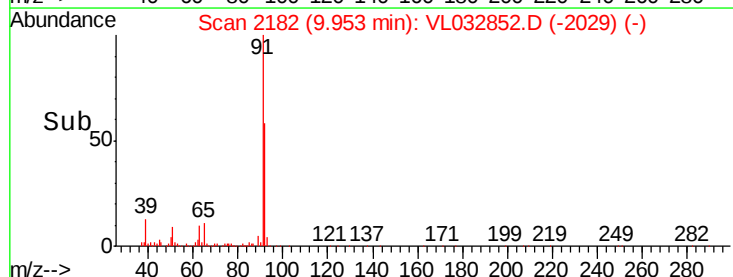
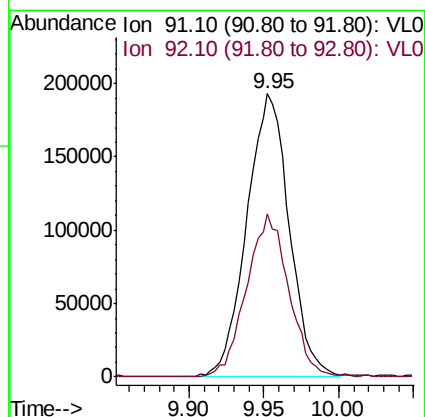
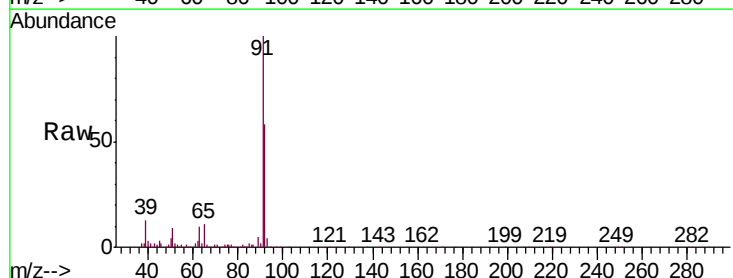
Acq: 30 Nov 2018 17:05

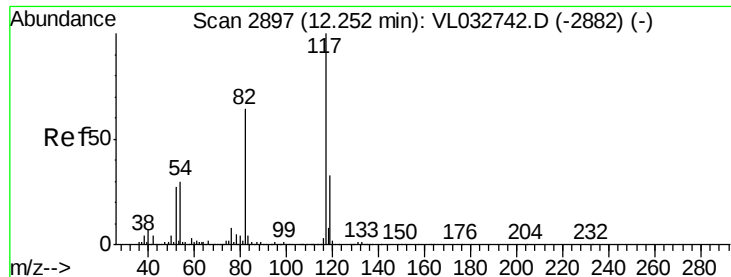
Tgt Ion: 91 Resp: 379758

Ion Ratio Lower Upper

91 100

92 57.6 47.9 71.9

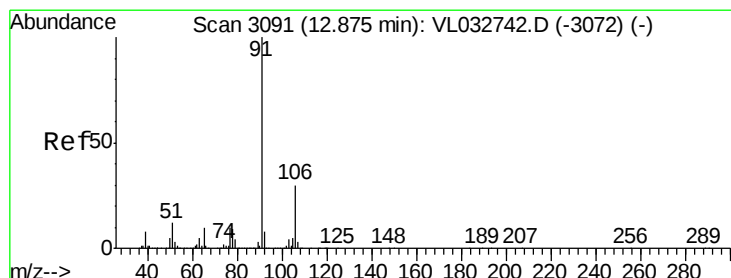
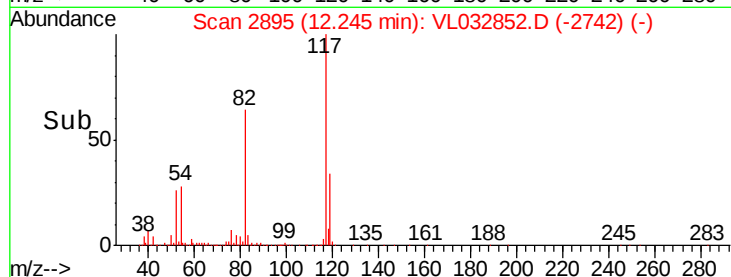
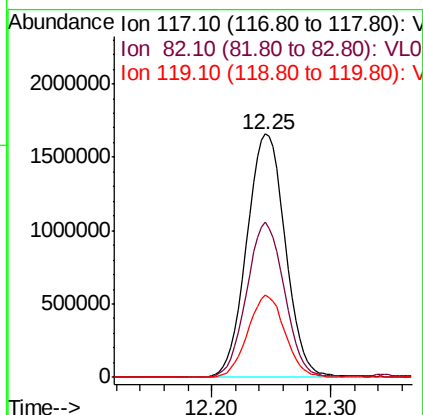
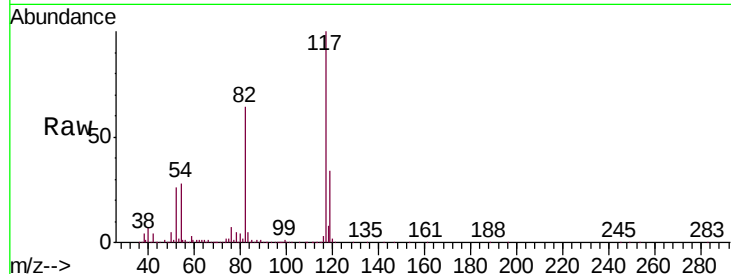




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032852.D
Acq: 30 Nov 2018 17:05

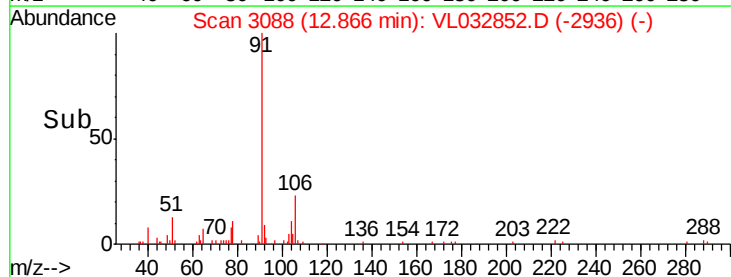
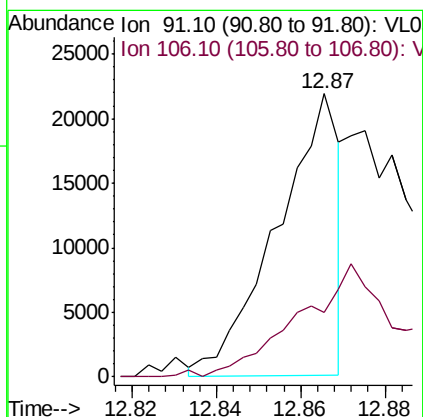
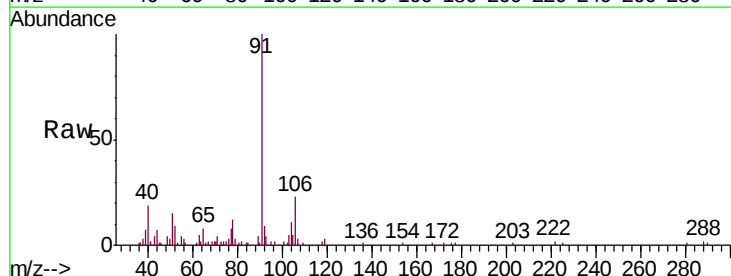
Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUPDL2

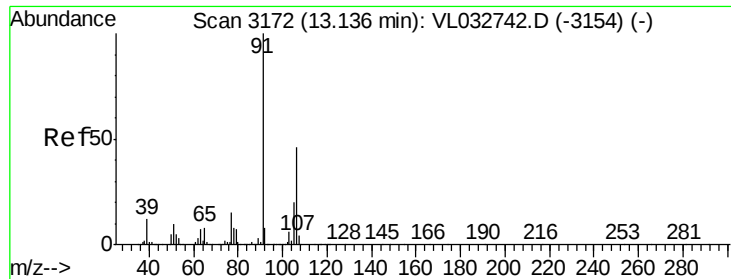
Tgt Ion: 117 Resp: 3722831
Ion Ratio Lower Upper
117 100
82 62.4 51.0 76.6
119 32.8 28.0 42.0



#58
Ethyl Benzene
Concen: 0.050 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL032852.D
Acq: 30 Nov 2018 17:05

Tgt Ion: 91 Resp: 22227
Ion Ratio Lower Upper
91 100
106 21.3 23.6 35.4#

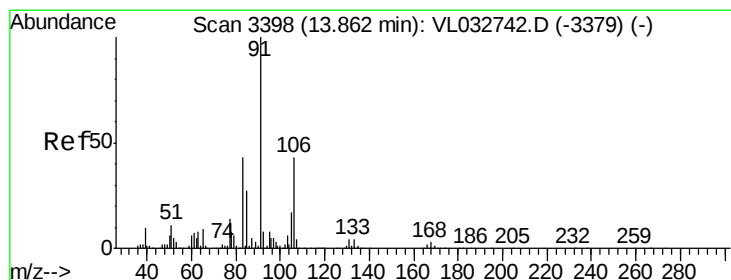
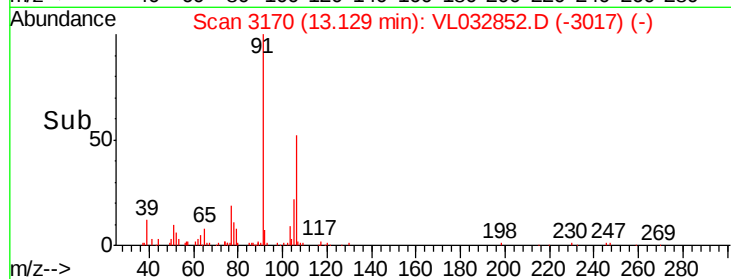
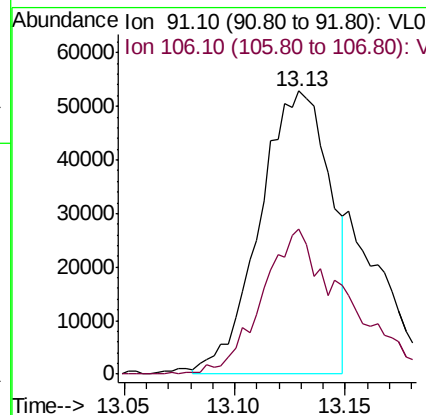
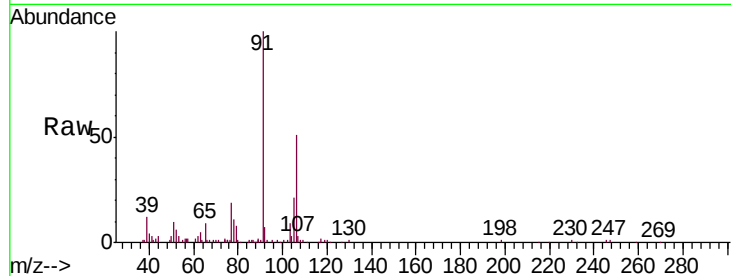




#59
m/p-Xylene
Concen: 0.292 ppbv
RT: 13.13 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL032852.D
Acq: 30 Nov 2018 17:05

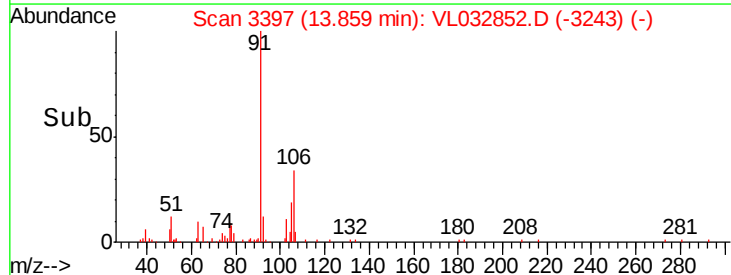
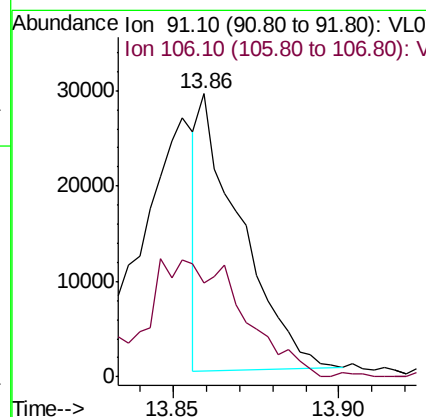
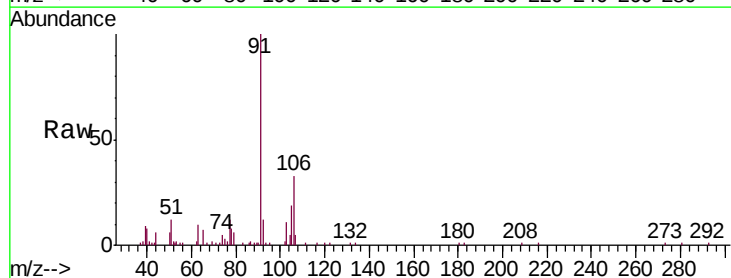
Instrument :
MSVOA_L
ClientSampleId :
SITE-D-DUPDL2

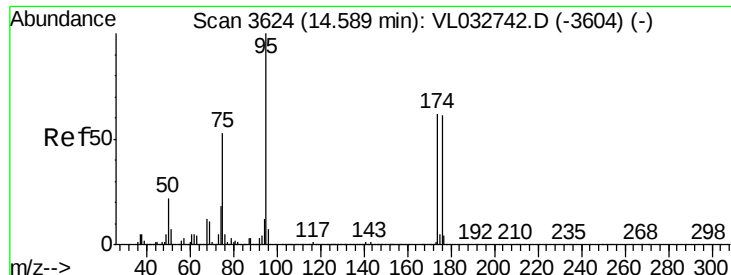
Tgt Ion: 91 Resp: 116650
Ion Ratio Lower Upper
91 100
106 62.4 36.1 54.1#



#60
o-Xylene
Concen: 0.063 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.00 min
Lab File: VL032852.D
Acq: 30 Nov 2018 17:05

Tgt Ion: 91 Resp: 25303
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.051 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032852.D

Acq: 30 Nov 2018 17:05

Instrument :

MSVOA_L

ClientSampleId :

SITE-D-DUPDL2

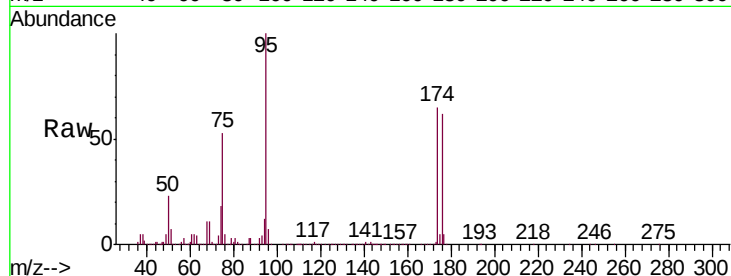
Tgt Ion: 95 Resp: 2798598

Ion Ratio Lower Upper

95 100

174 65.9 50.7 76.1

175 5.0 3.8 5.6



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

