

Data File : VL032900.D
Acq On : 5 Dec 2018 6:35
Operator : SY/AP
Sample : J6177-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUP

Quant Time: Dec 05 08:28:52 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	5.77	49	1398879	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3524548	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3632197	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2696324	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	78821	0.392	ppbv	96
3) Chlorodifluoromethane	3.01	51	66836	0.603	ppbv	94
4) Chloromethane	3.17	50	25212	0.410	ppbv #	81
7) Chloroethane	3.61	64	823	0.035	ppbv	90
9) Propene	3.04	41	1304107	29.384	ppbv	96
10) Heptane	8.26	43	36820	0.217	ppbv #	1
11) Trichlorofluoromethane	4.01	101	43940	0.232	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	5251	0.034	ppbv #	1
13) Ethanol	3.66	45	976824	67.196	ppbv	99
15) Acetone	3.90	43	5294560	41.445	ppbv #	68
16) 1,3-Butadiene	3.35	39	1454222	29.395	ppbv #	13
17) tert-Butyl alcohol	4.38	59	59547	1.486	ppbv #	73
19) Isopropyl Alcohol	4.04	45	73746	0.867	ppbv #	95
20) Methylene Chloride	4.42	84	358331	5.418	ppbv	94
21) Allyl Chloride	4.43	41	9797	0.091	ppbv #	19
23) Vinyl Acetate	5.26	43	266395	1.144	ppbv #	11
25) Ethyl Acetate	5.79	43	478683	1.608	ppbv #	84
26) Hexane	5.79	57	575281	4.340	ppbv #	46
27) Carbon Disulfide	4.63	76	573024	3.410	ppbv	99
29) Chloroform	5.86	83	24424	0.103	ppbv	90
30) Cyclohexane	7.26	84	21109	0.182	ppbv #	9
34) 2-Butanone	5.33	43	14898215	81.498	ppbv #	89
36) Benzene	7.01	78	344901	1.229	ppbv	96
39) 1,2-Dichloropropane	7.30	63	811805	7.592	ppbv #	22
41) Tetrahydrofuran	6.16	42	13836	0.132	ppbv #	78
44) 2,2,4-Trimethylpentane	7.99	57	133836	0.285	ppbv #	83
51) 2-Hexanone	10.27	43	1607103	8.737	ppbv	99
52) Tetrachloroethene	11.38	164	13523	0.139	ppbv	94
53) Toluene	9.96	91	429813	1.468	ppbv	98
57) Chlorobenzene	12.30	112	51549	0.185	ppbv #	28
58) Ethyl Benzene	12.87	91	558920	1.279	ppbv	99
59) m/p-Xylene	13.13	91	1391852	3.577	ppbv	96
60) o-Xylene	13.86	91	589535	1.507	ppbv	98
61) Styrene	13.69	104	45112	0.177	ppbv #	51
62) Isopropylbenzene	14.82	105	16793	0.032	ppbv #	1
63) 1,1,2,2-Tetrachloroethane	13.83	83	53812	0.176	ppbv #	54
65) tert-Butylbenzene	16.93	119	42125	0.089	ppbv #	80
67) sec-Butylbenzene	17.46	105	25400	0.037	ppbv #	77
69) p-Isopropyltoluene	17.82	119	55419	0.102	ppbv #	50
70) n-Butylbenzene	18.73	91	28975	0.053	ppbv #	67
71) 2-Chlorotoluene	15.73	91	35697	0.091	ppbv	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120418\
Quantitation Report (Not Reviewed)

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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)
72) 4-Ethyltoluene	16.01	105	24689	0.058	ppbv #	49
73) 1,3,5-Trimethylbenzene	16.17	105	106999	0.255	ppbv	91
74) 1,2,4-Trimethylbenzene	16.93	105	226002	0.504	ppbv #	69
77) 1,2-Dichlorobenzene	17.99	146	7432	0.031	ppbv #	27
80) Naphthalene,2-methyl-	25.13	142	2818	0.038	ppbv	88

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

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Acq On : 5 Dec 2018 6:35

Operator : SY/AP

Sample : J6177-03

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUP

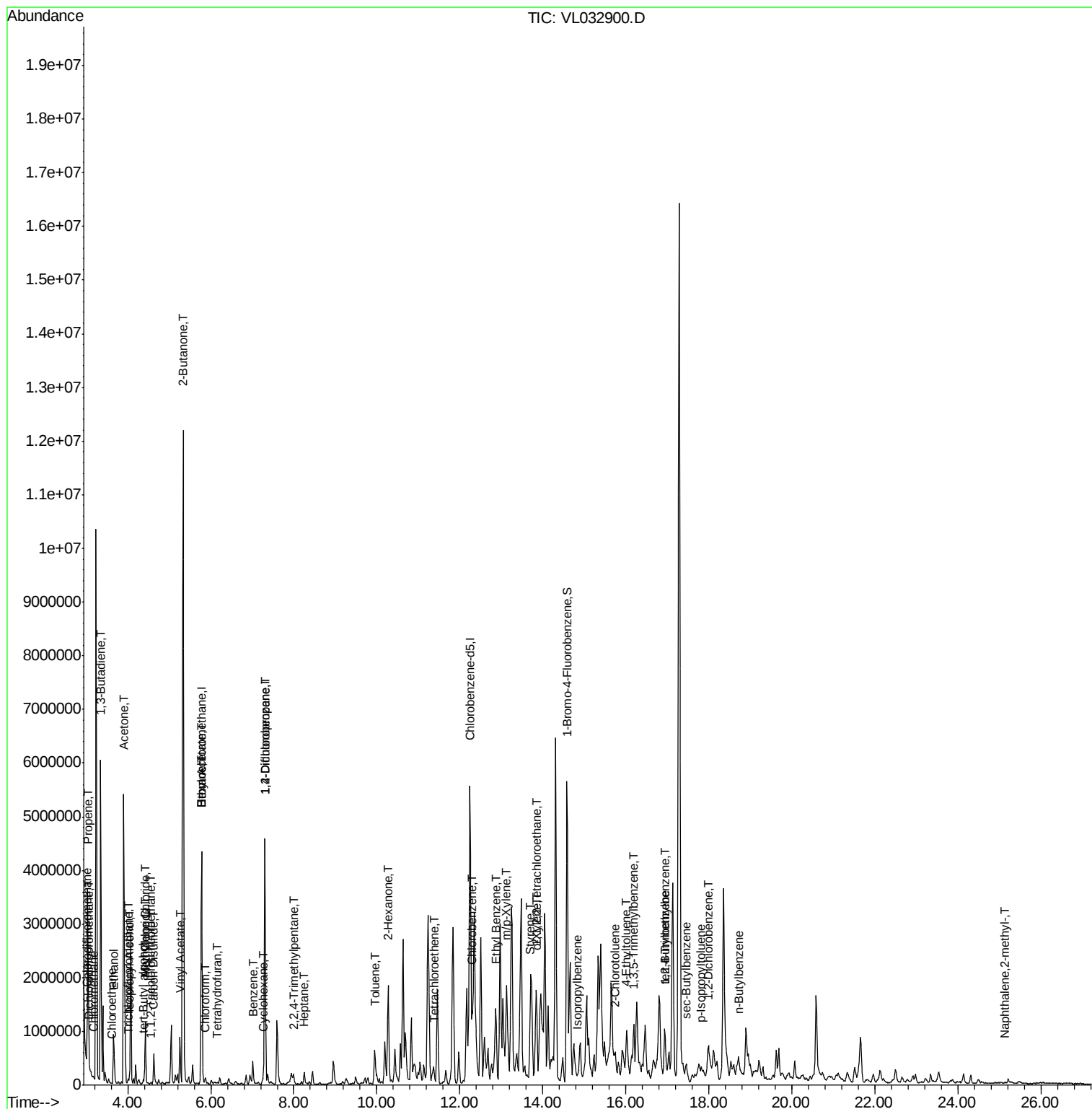
Quant Time: Dec 05 08:28:52 2018

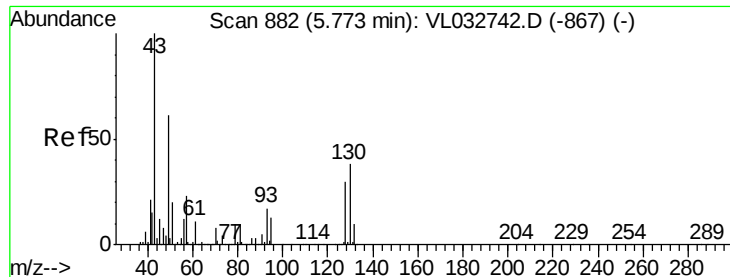
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018

QLast Update : Wed Nov 14 07:00:23 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampled :

VIELE-DUP

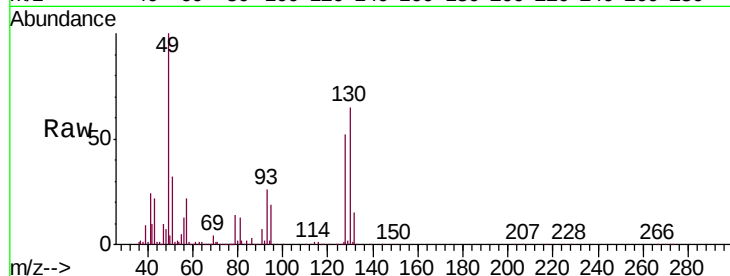
Tgt Ion: 49 Resp: 1398879

Ion Ratio Lower Upper

49 100

128 52.8 24.9 74.6

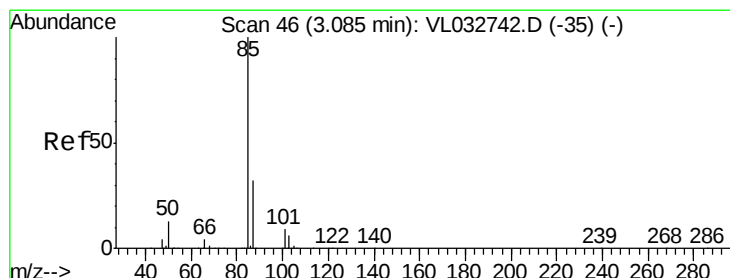
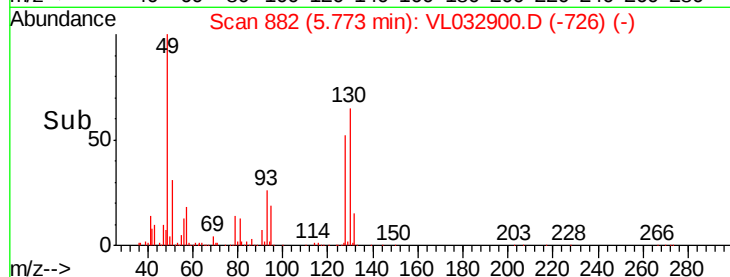
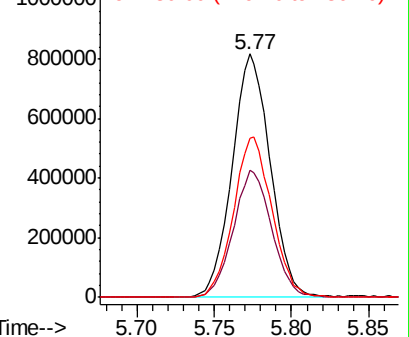
130 66.8 31.4 94.2



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



#2

Dichlorodifluoromethane

Concen: 0.392 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032900.D

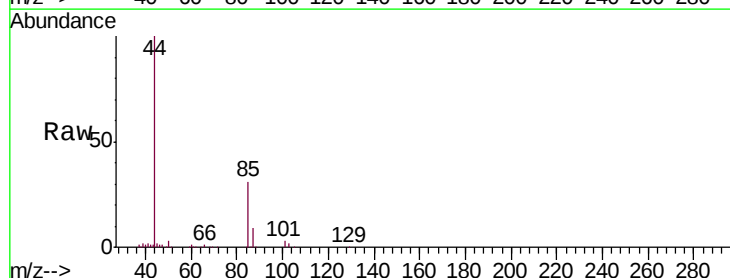
Acq: 5 Dec 2018 6:35

Tgt Ion: 85 Resp: 78821

Ion Ratio Lower Upper

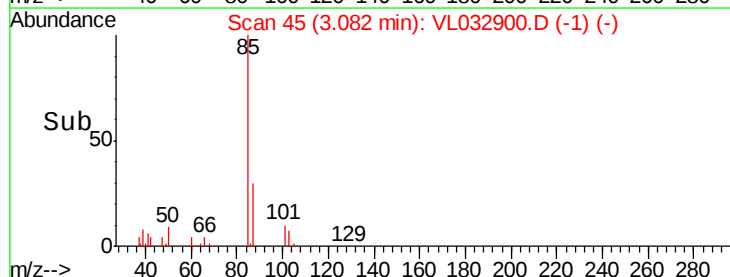
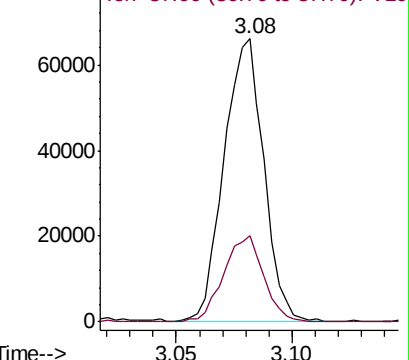
85 100

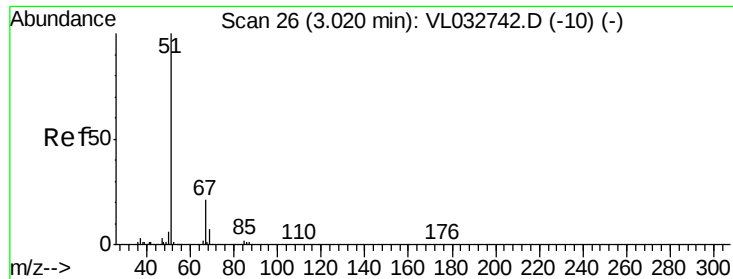
87 30.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

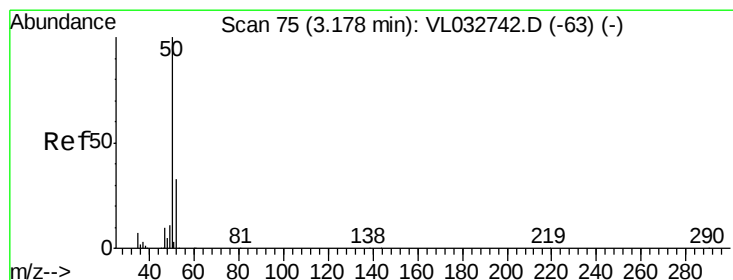
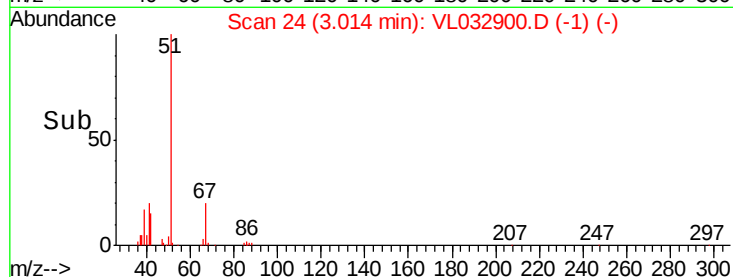
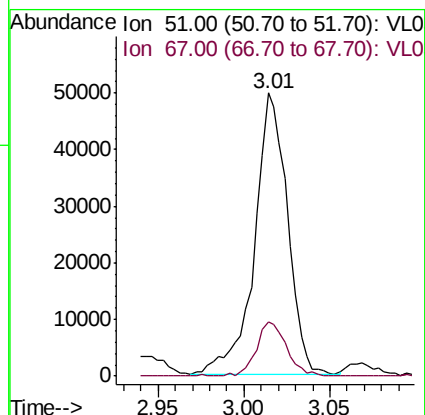
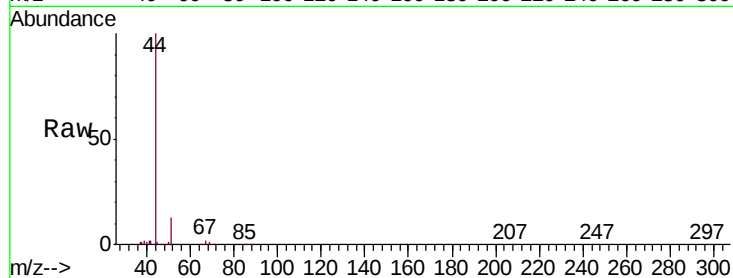




#3
Chlorodifluoromethane
Concen: 0.603 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.01 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

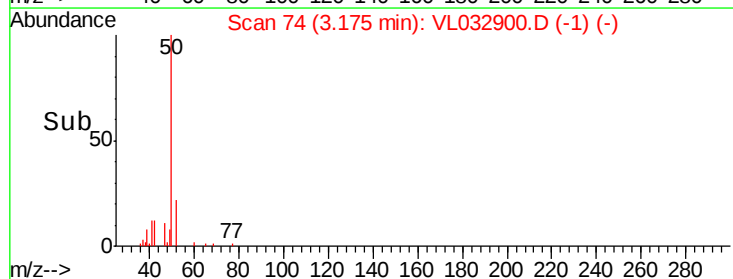
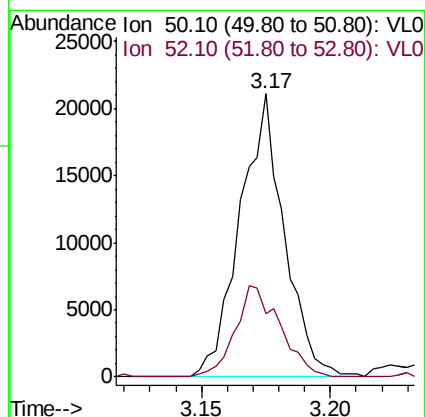
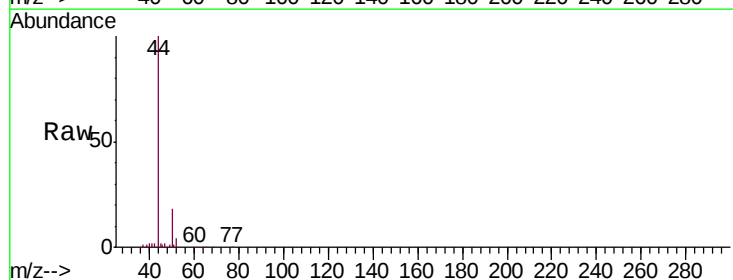
Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUP

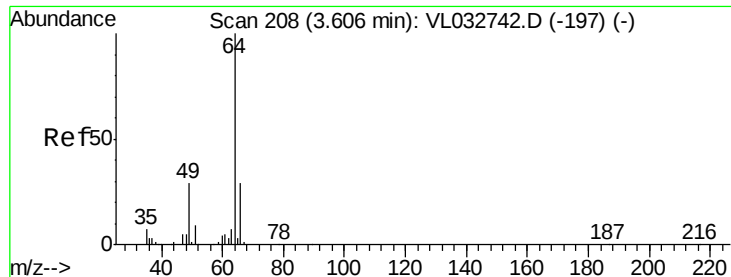
Tgt Ion: 51 Resp: 66836
Ion Ratio Lower Upper
51 100
67 17.3 16.1 24.1



#4
Chloromethane
Concen: 0.410 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

Tgt Ion: 50 Resp: 25212
Ion Ratio Lower Upper
50 100
52 22.4 26.6 40.0#





#7

Chloroethane

Concen: 0.035 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

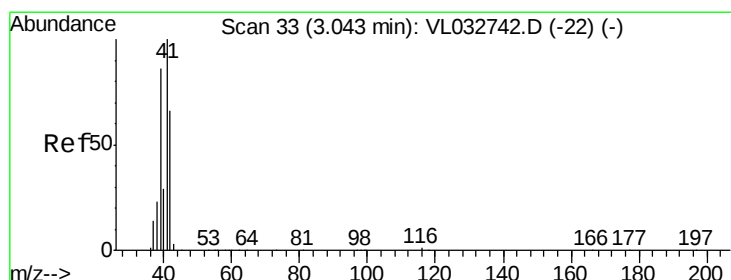
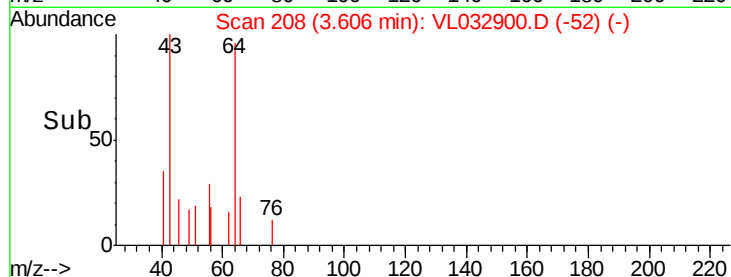
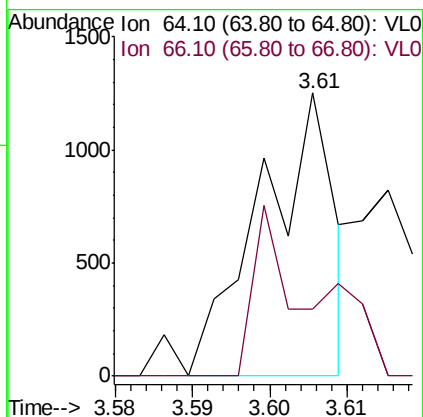
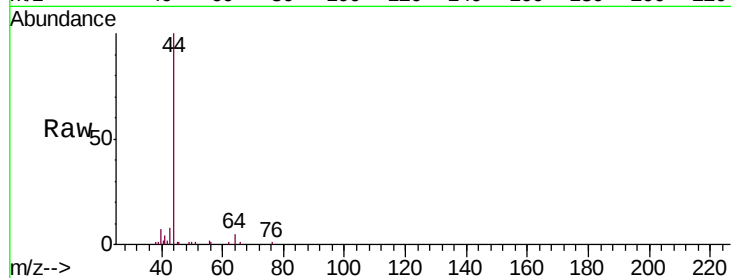
VIELE-DUP

Tgt Ion: 64 Resp: 823

Ion Ratio Lower Upper

64 100

66 23.7 23.2 34.8



#9

Propene

Concen: 29.384 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032900.D

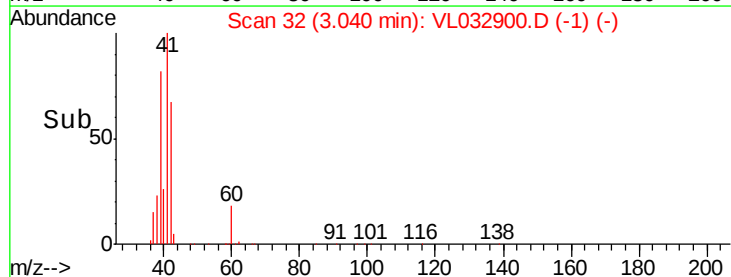
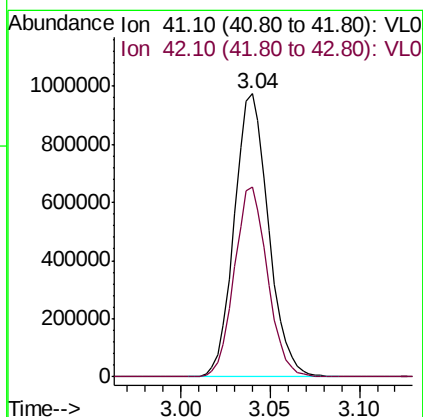
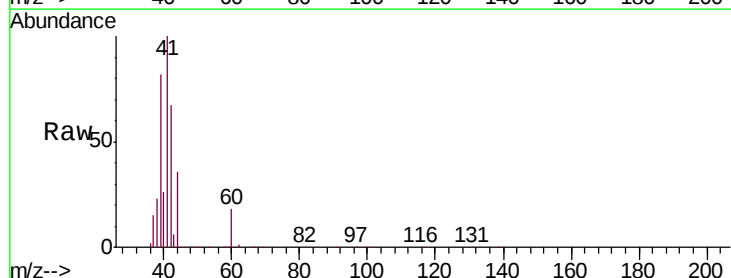
Acq: 5 Dec 2018 6:35

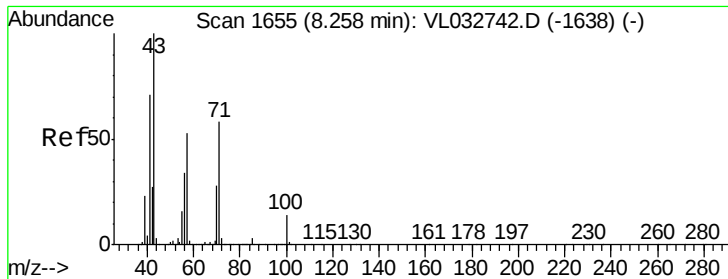
Tgt Ion: 41 Resp: 1304107

Ion Ratio Lower Upper

41 100

42 65.3 55.0 82.6





#10

Heptane

Concen: 0.217 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

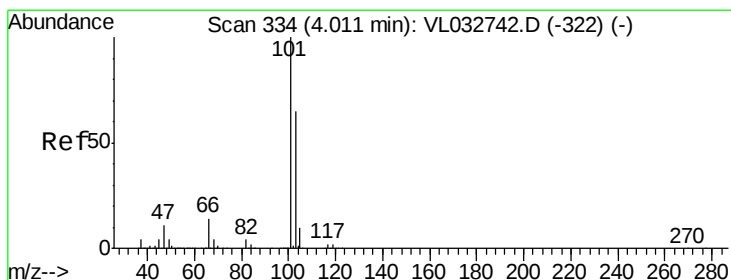
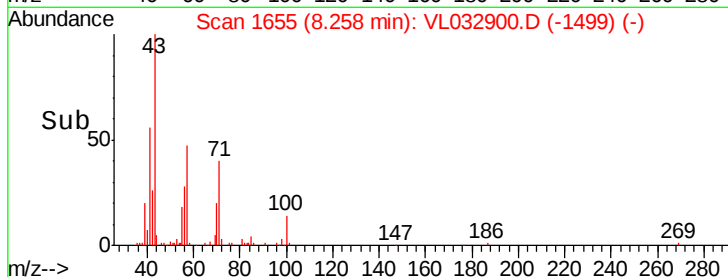
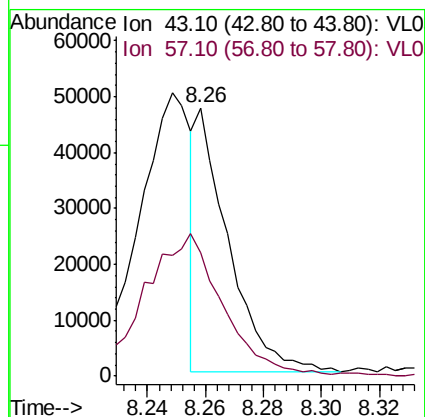
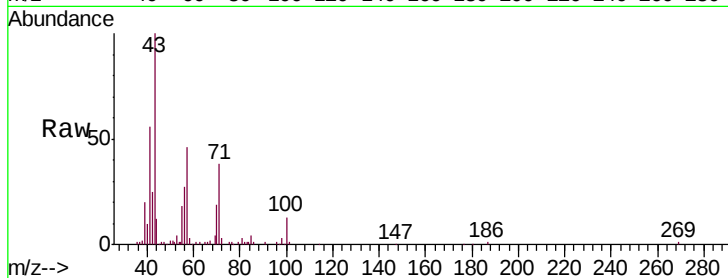
VIELE-DUP

Tgt Ion: 43 Resp: 36820

Ion Ratio Lower Upper

43 100

57 140.0 41.8 62.8#



#11

Trichlorofluoromethane

Concen: 0.232 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL032900.D

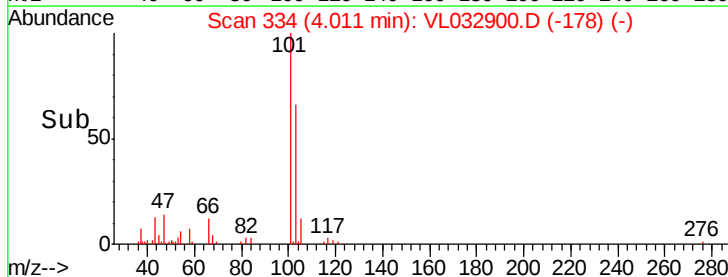
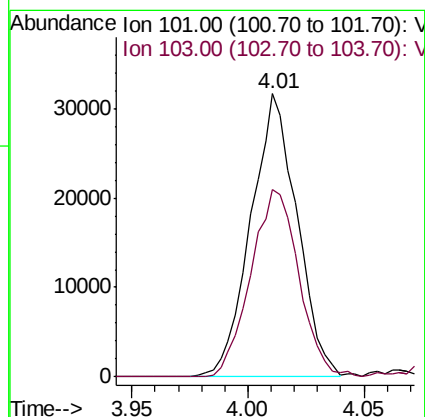
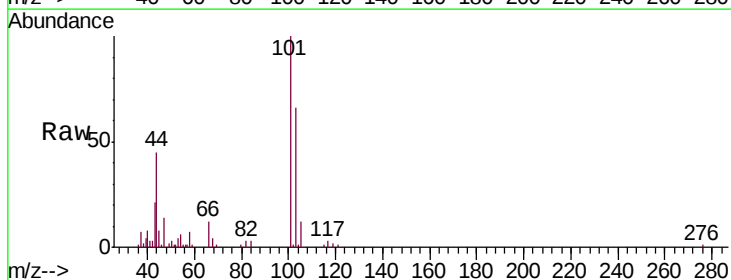
Acq: 5 Dec 2018 6:35

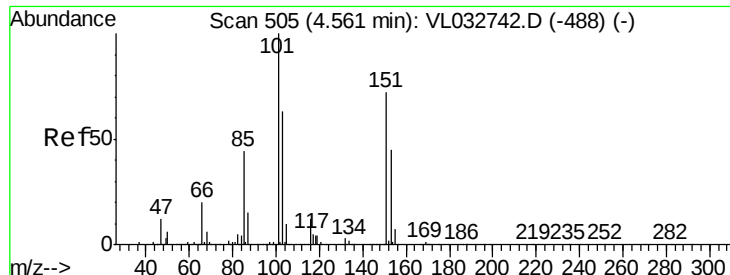
Tgt Ion: 101 Resp: 43940

Ion Ratio Lower Upper

101 100

103 66.1 51.6 77.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.034 ppbv

RT: 4.56 min Scan# 506

Delta R.T. 0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

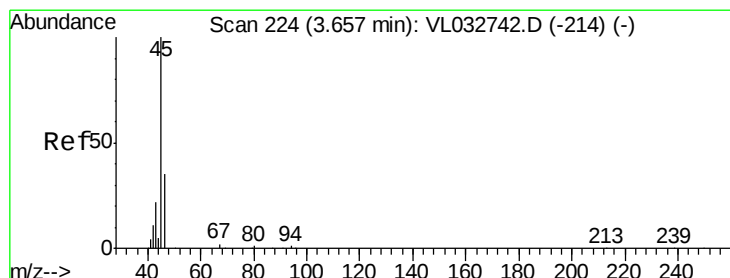
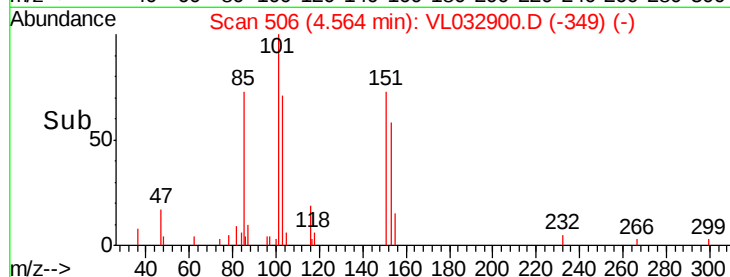
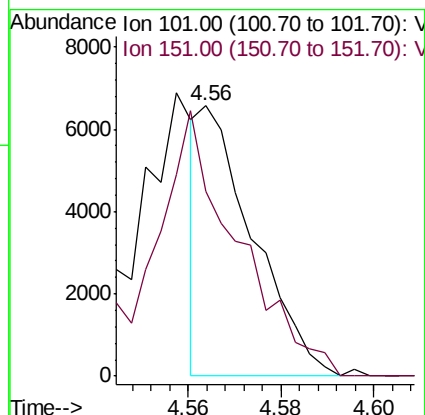
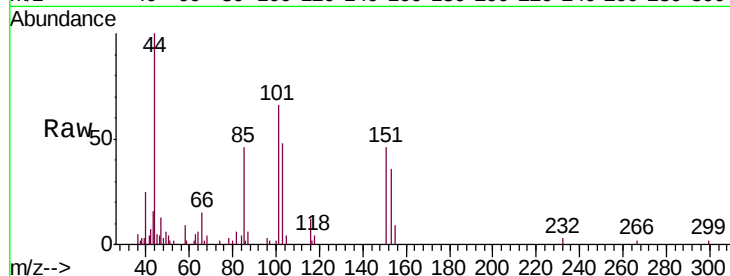
VIELE-DUP

Tgt Ion:101 Resp: 5251

Ion Ratio Lower Upper

101 100

151 160.0 56.7 85.1#



#13

Ethanol

Concen: 67.196 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.00 min

Lab File: VL032900.D

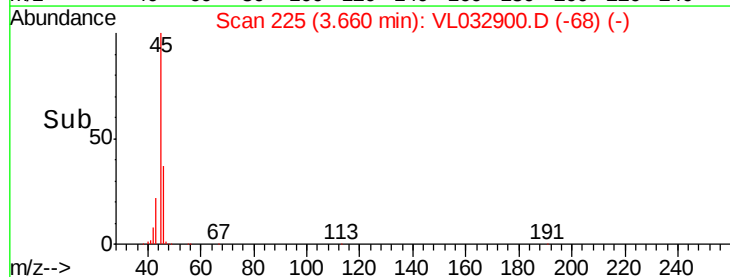
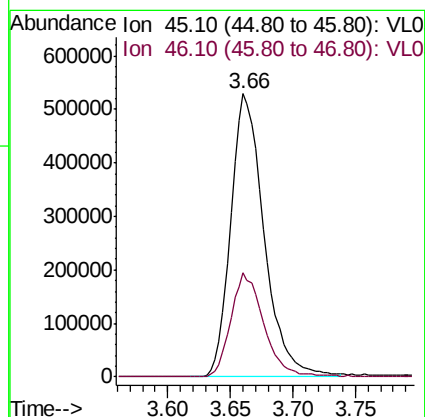
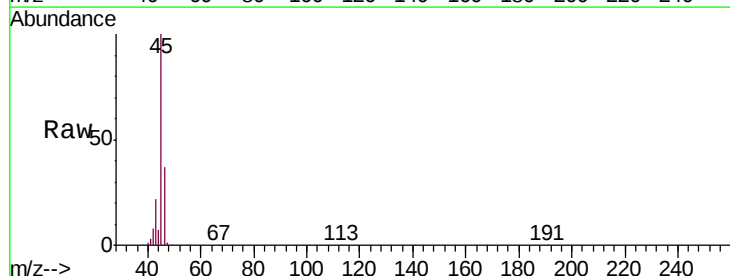
Acq: 5 Dec 2018 6:35

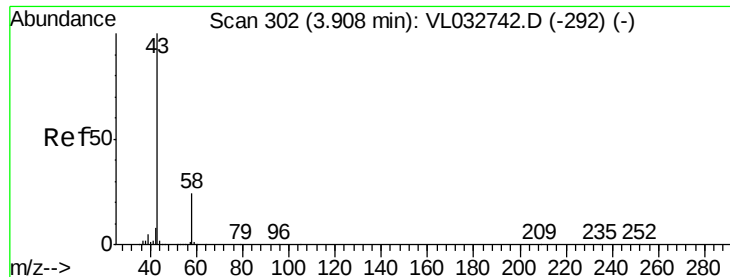
Tgt Ion: 45 Resp: 976824

Ion Ratio Lower Upper

45 100

46 36.9 14.5 57.9





#15

Acetone

Concen: 41.445 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

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ClientSampleId :

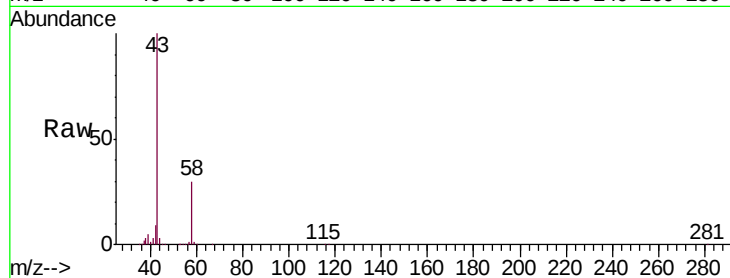
VIELE-DUP

Tgt Ion: 43 Resp: 5294560

Ion Ratio Lower Upper

43 100

58 42.8 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

4000000

3000000

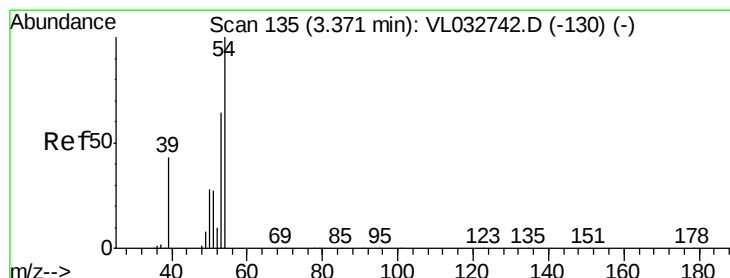
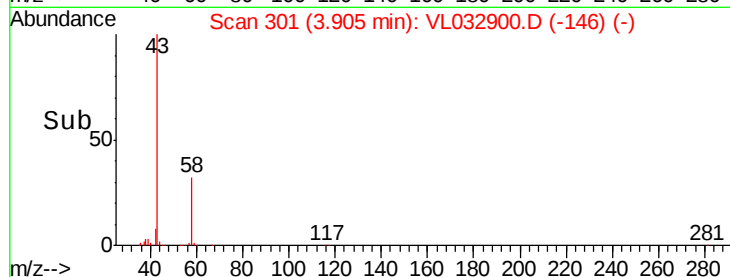
2000000

1000000

0

3.85 3.90 3.95 4.00

Time-->



#16

1,3-Butadiene

Concen: 29.395 ppbv

RT: 3.35 min Scan# 128

Delta R.T. -0.02 min

Lab File: VL032900.D

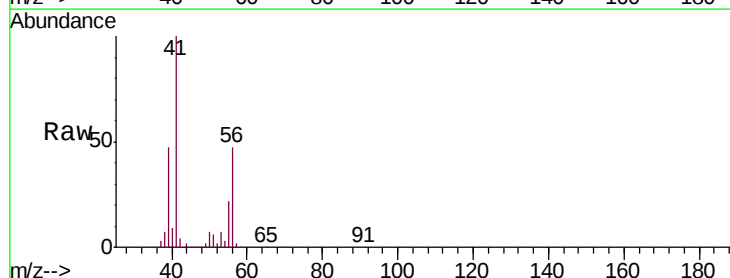
Acq: 5 Dec 2018 6:35

Tgt Ion: 39 Resp: 1454222

Ion Ratio Lower Upper

39 100

54 6.4 68.9 103.3#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

1200000

1000000

800000

600000

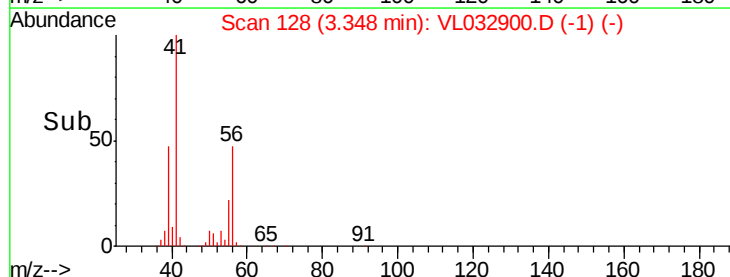
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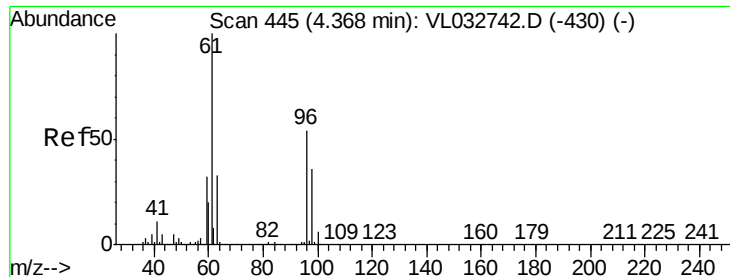
200000

0

3.30 3.35 3.40

Time-->





#17

tert-Butyl alcohol

Concen: 1.486 ppbv

RT: 4.38 min Scan# 449

Delta R.T. 0.01 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

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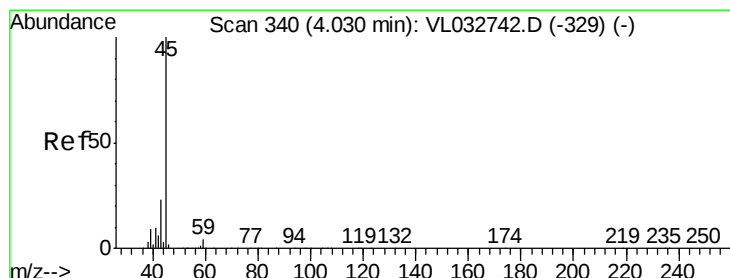
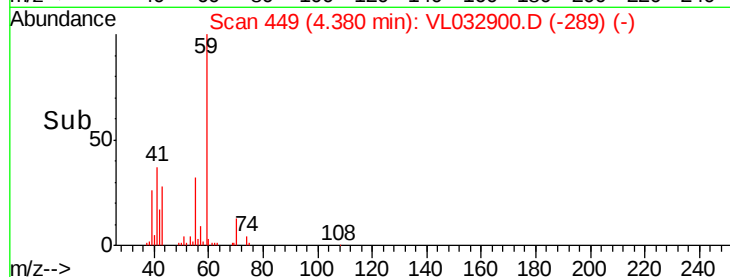
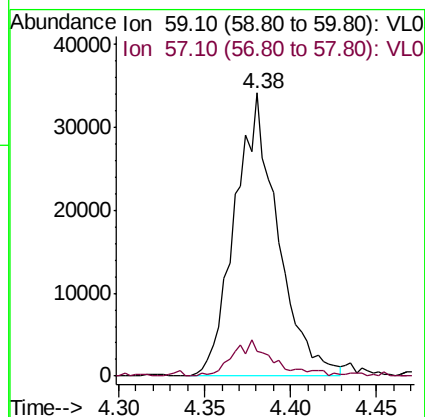
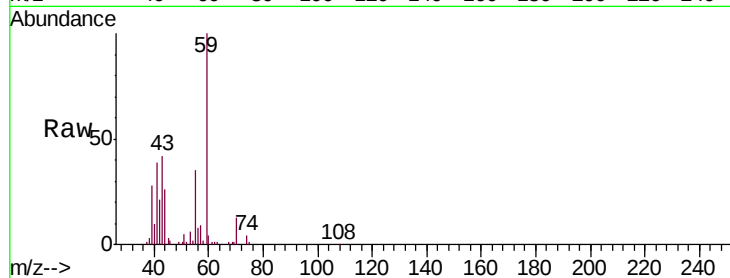
VIELE-DUP

Tgt Ion: 59 Resp: 59547

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#19

Isopropyl Alcohol

Concen: 0.867 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.01 min

Lab File: VL032900.D

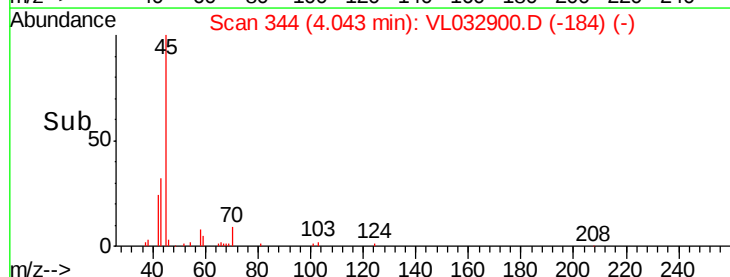
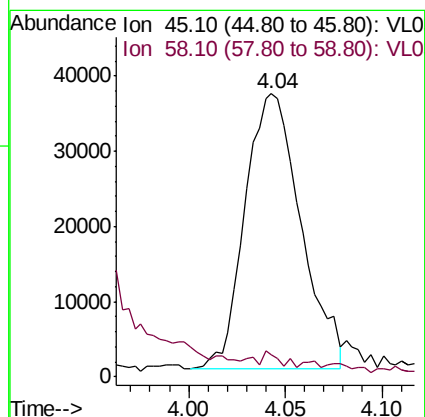
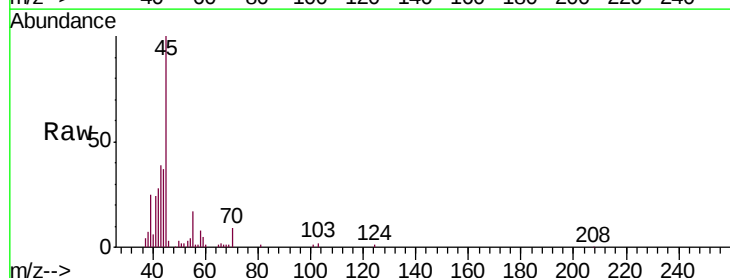
Acq: 5 Dec 2018 6:35

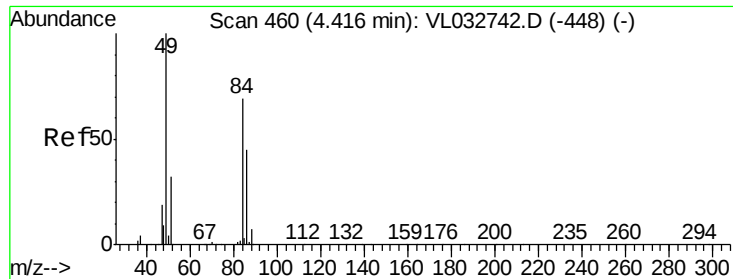
Tgt Ion: 45 Resp: 73746

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#

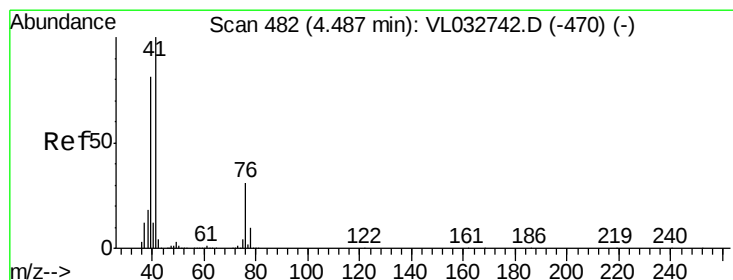
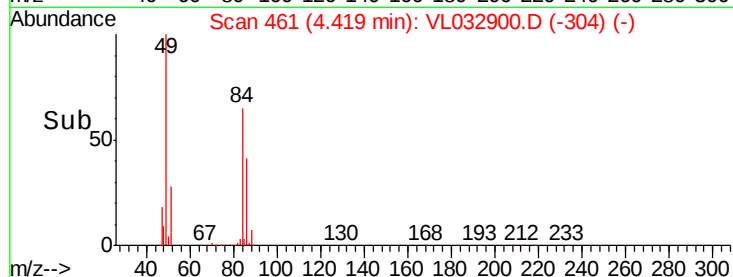
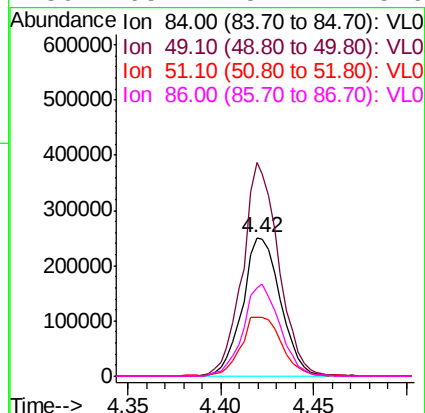
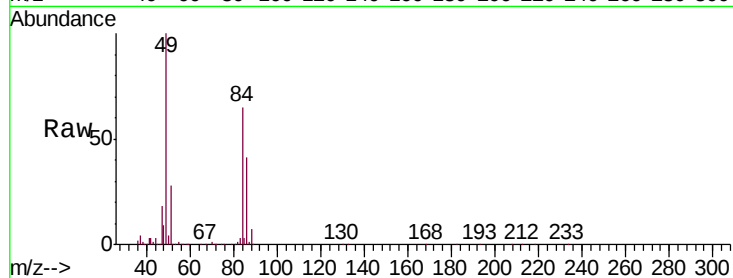




#20
Methylene Chloride
Concen: 5.418 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

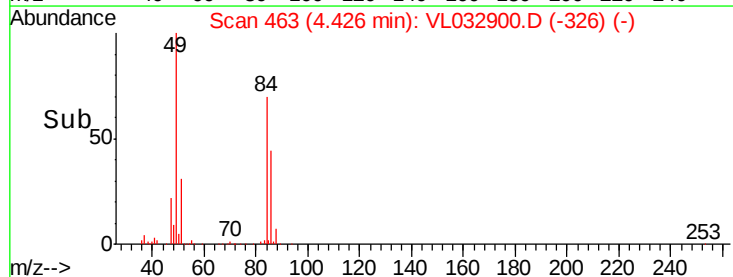
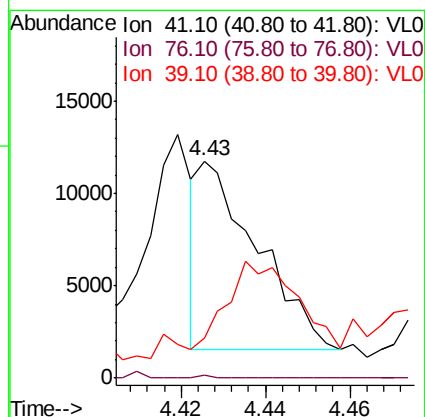
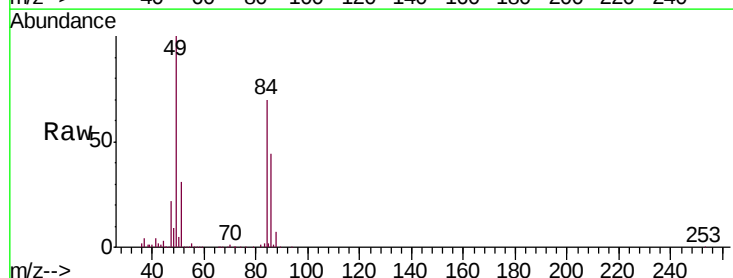
Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUP

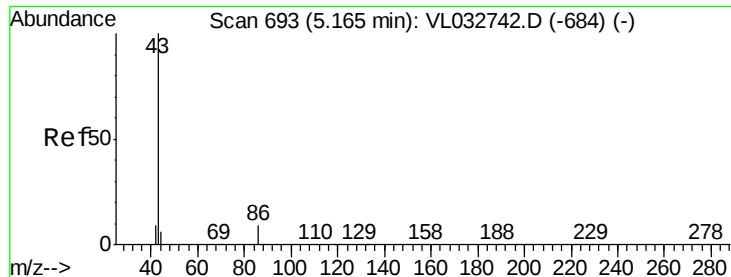
Tgt Ion:	84	Resp:	358331
Ion	Ratio	Lower	Upper
84	100		
49	154.0	115.8	173.6
51	42.2	36.9	55.3
86	63.4	52.4	78.6



#21
Allyl Chloride
Concen: 0.091 ppbv
RT: 4.43 min Scan# 463
Delta R.T. -0.06 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

Tgt Ion:	41	Resp:	9797
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	0.0	63.5	95.3#





#23

Vinyl Acetate

Concen: 1.144 ppbv

RT: 5.26 min Scan# 722

Delta R.T. 0.09 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

VIELE-DUP

Tgt Ion: 43 Resp: 266395

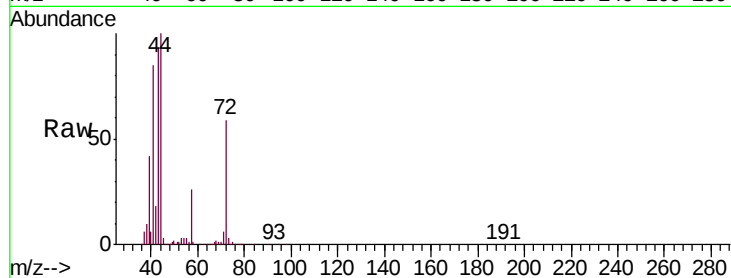
Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#

42 18.6 7.8 11.6#

44 104.7 4.4 6.6#

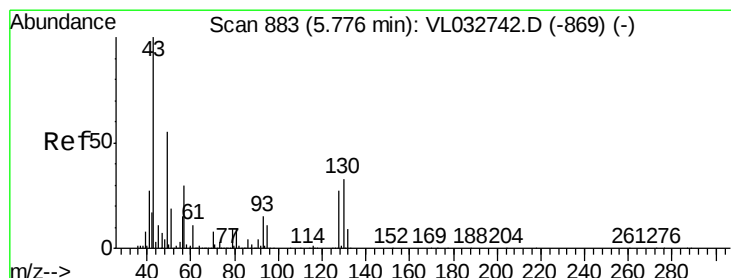
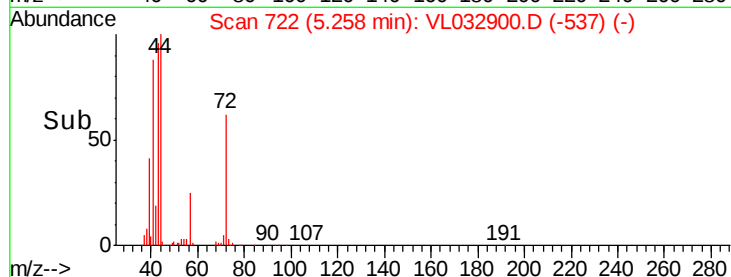
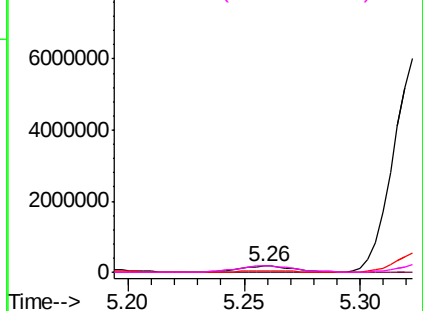


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 1.608 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Tgt Ion: 43 Resp: 478683

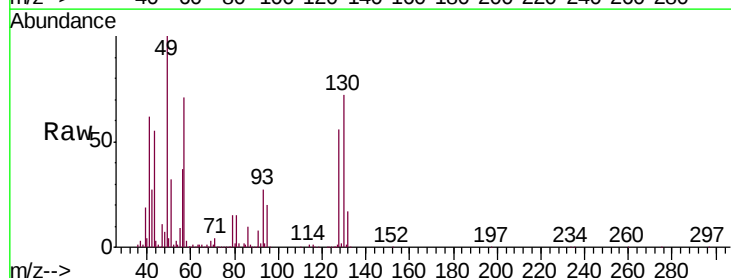
Ion Ratio Lower Upper

43 100

45 3.7 7.9 11.9#

61 2.6 7.8 11.6#

70 3.6 5.8 8.6#

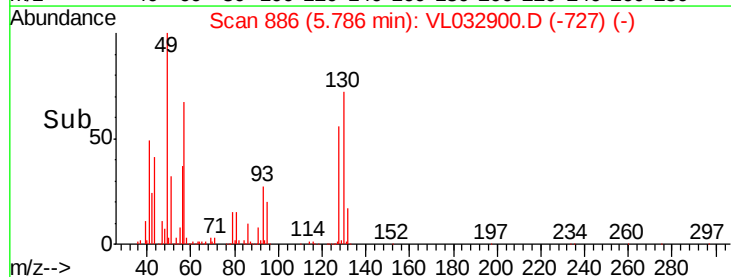
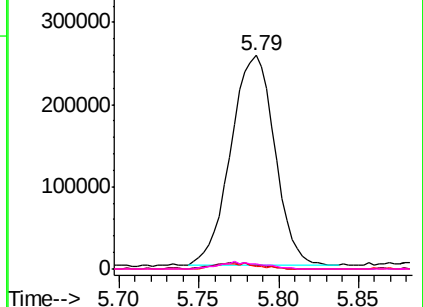


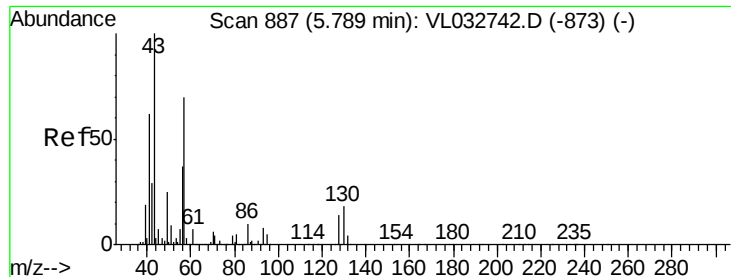
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

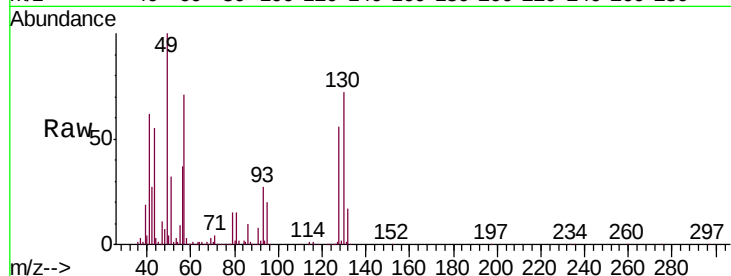




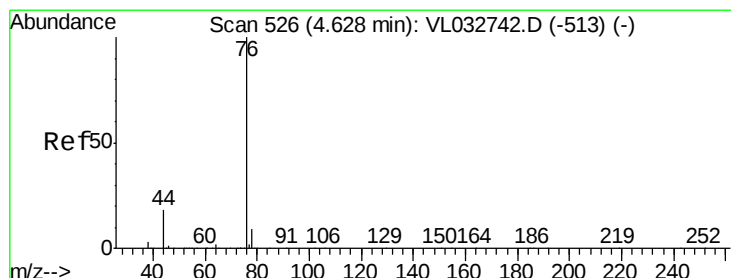
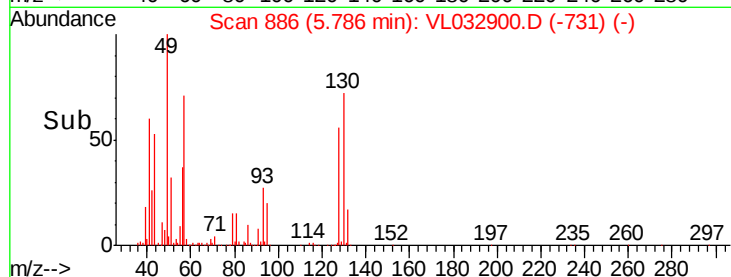
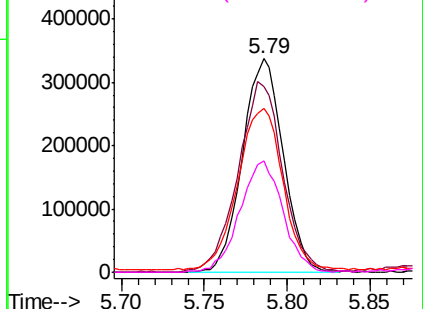
#26
Hexane
Concen: 4.340 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUP

Tgt Ion: 57 Resp: 575281
Ion Ratio Lower Upper
57 100
41 97.8 70.3 105.5
43 84.5 174.0 261.0#
56 55.5 42.3 63.5

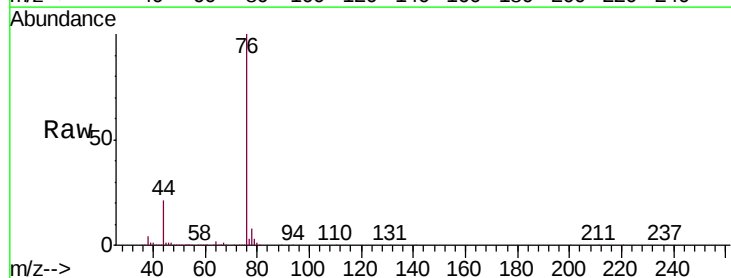


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

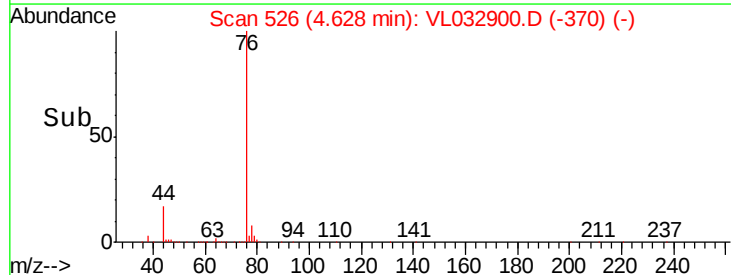
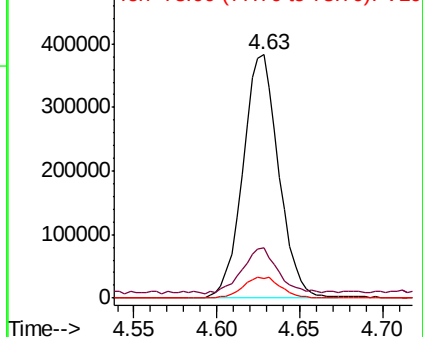


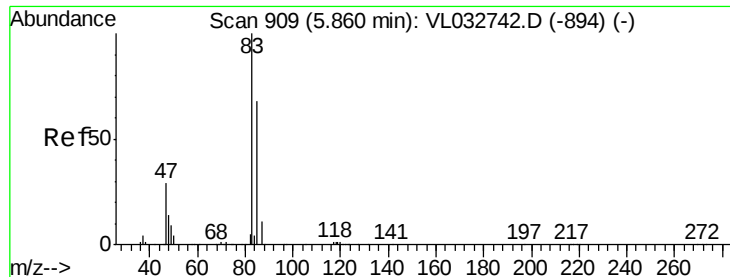
#27
Carbon Disulfide
Concen: 3.410 ppbv
RT: 4.63 min Scan# 526
Delta R.T. 0.00 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

Tgt Ion: 76 Resp: 573024
Ion Ratio Lower Upper
76 100
44 17.4 14.4 21.6
78 9.2 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





#29

Chloroform

Concen: 0.103 ppbv

RT: 5.86 min Scan# 910

Delta R.T. 0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

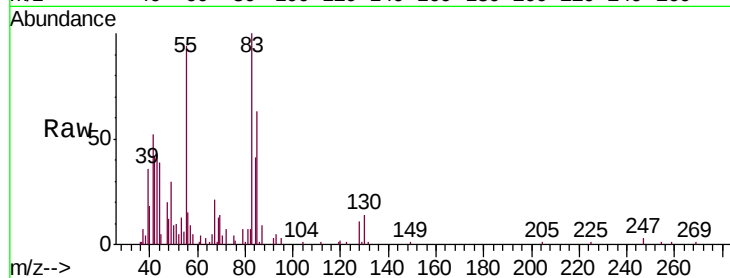
VIELE-DUP

Tgt Ion: 83 Resp: 24424

Ion Ratio Lower Upper

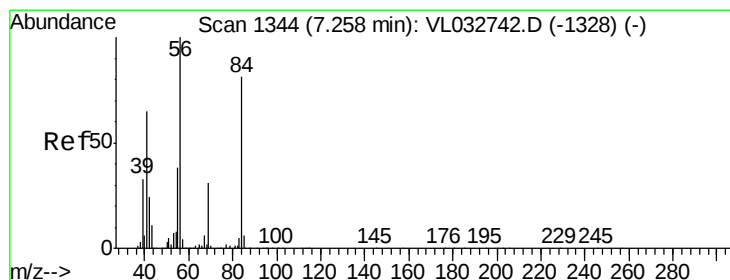
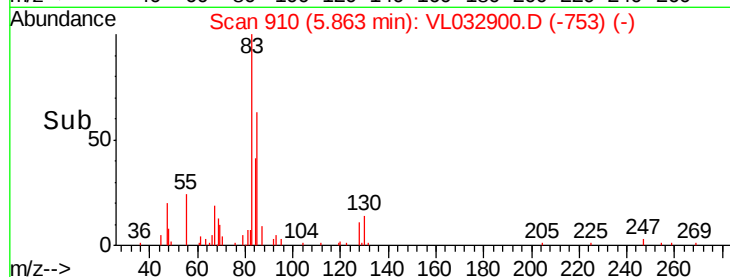
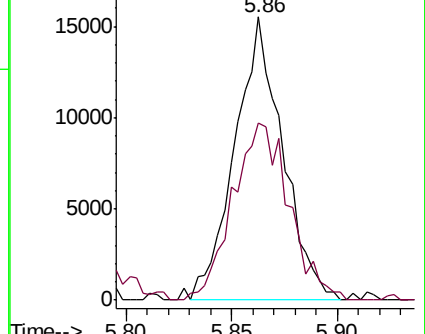
83 100

85 59.8 54.2 81.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.182 ppbv

RT: 7.26 min Scan# 1344

Delta R.T. 0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

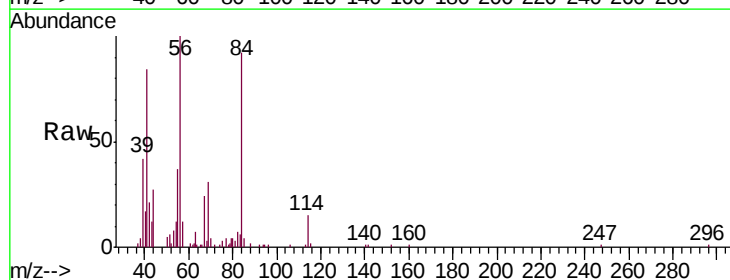
Tgt Ion: 84 Resp: 21109

Ion Ratio Lower Upper

84 100

56 0.0 105.0 157.4#

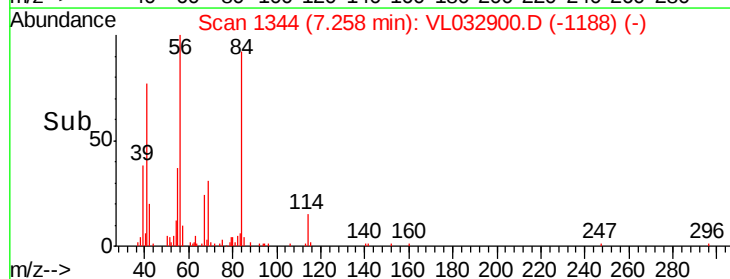
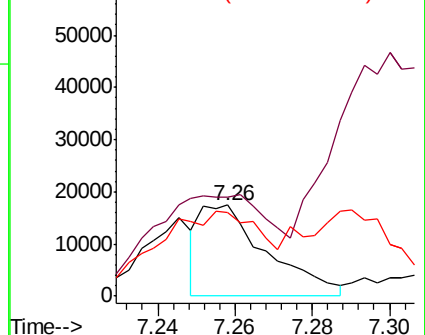
41 132.7 65.3 97.9#

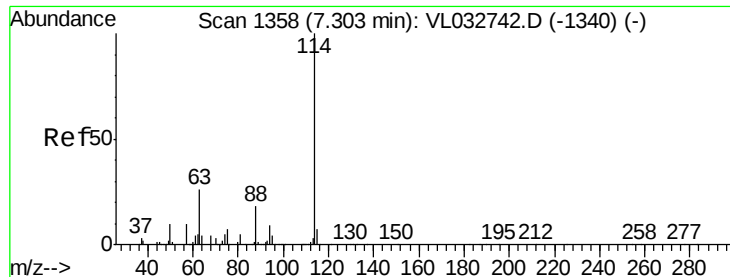


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

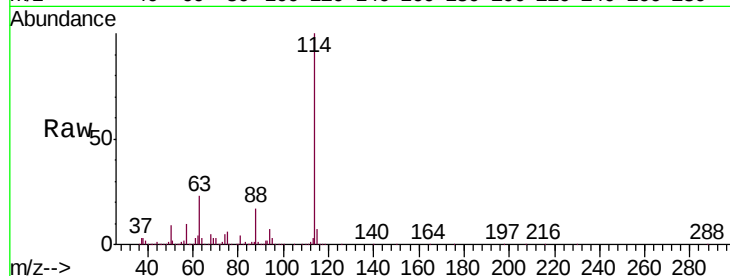




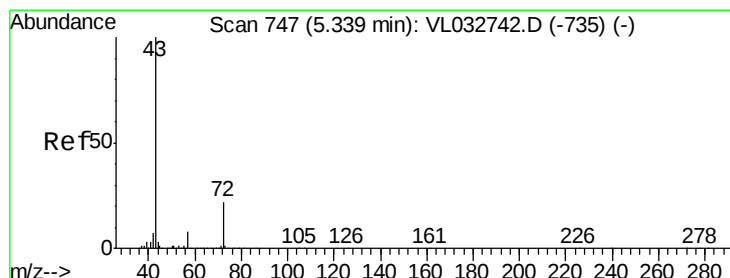
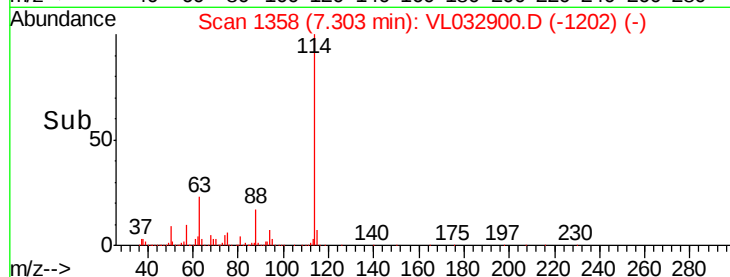
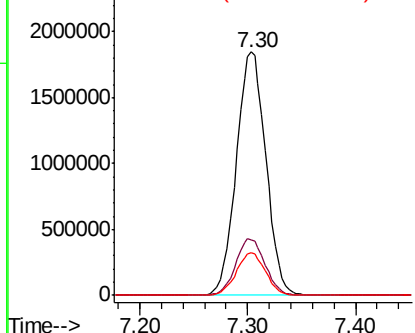
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VL032900.D
 Acq: 5 Dec 2018 6:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VIELE-DUP

Tgt Ion: 114 Resp: 3524548
 Ion Ratio Lower Upper
 114 100
 63 23.2 20.9 31.3
 88 17.3 14.4 21.6

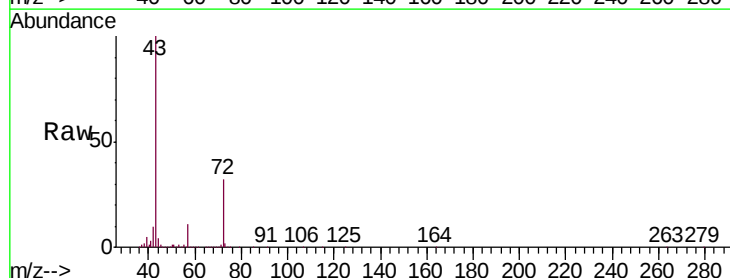


Abundance Ion 114.10 (113.80 to 114.80): VL0
 2500000 Ion 63.10 (62.80 to 63.80): VL0
 2000000 Ion 88.10 (87.80 to 88.80): VL0

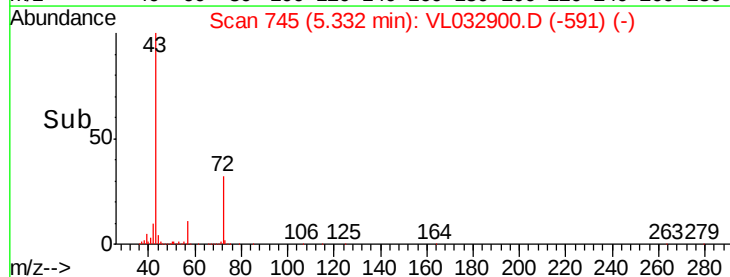
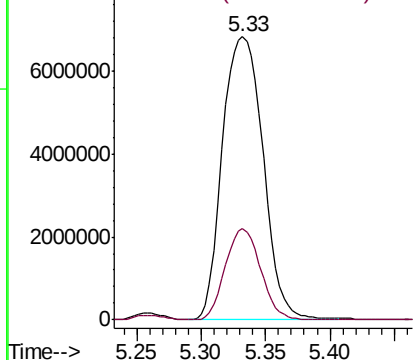


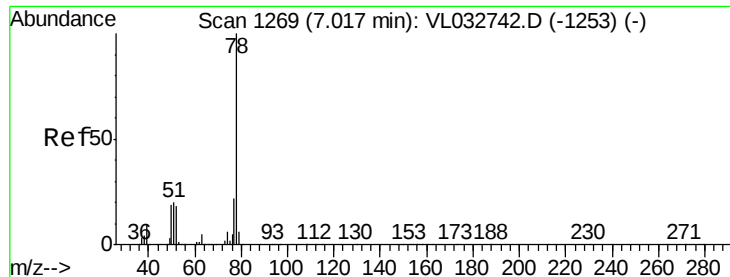
#34
 2-Butanone
 Concen: 81.498 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. -0.01 min
 Lab File: VL032900.D
 Acq: 5 Dec 2018 6:35

Tgt Ion: 43 Resp: 14898215
 Ion Ratio Lower Upper
 43 100
 72 28.3 18.4 27.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 8000000 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 1.229 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

VIELE-DUP

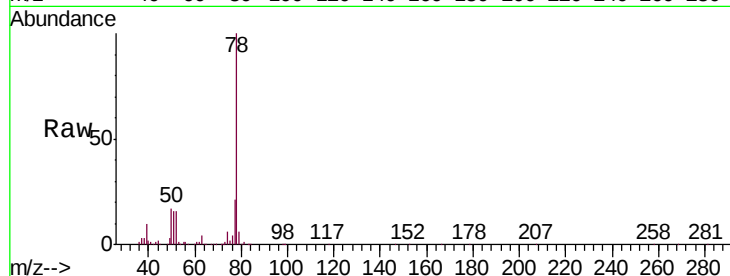
Tgt Ion: 78 Resp: 344901

Ion Ratio Lower Upper

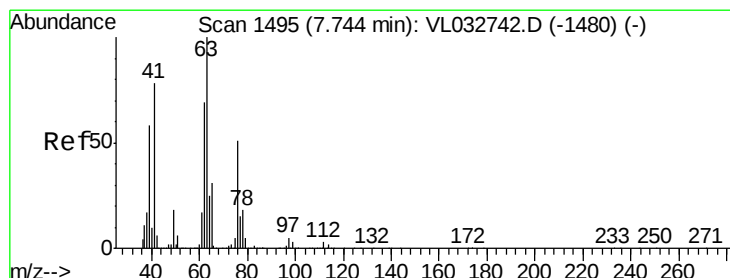
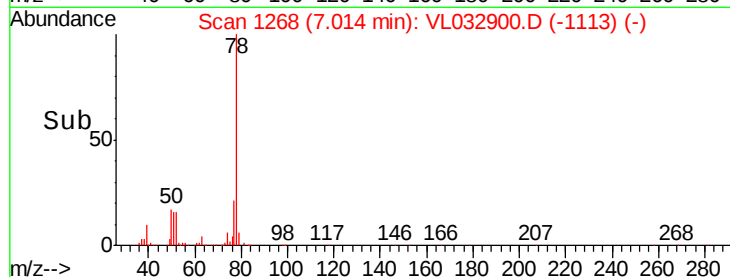
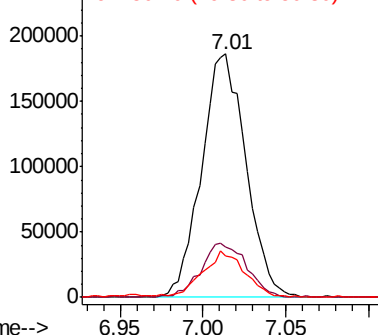
78 100

77 20.6 17.8 26.8

50 16.9 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: 7.592 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

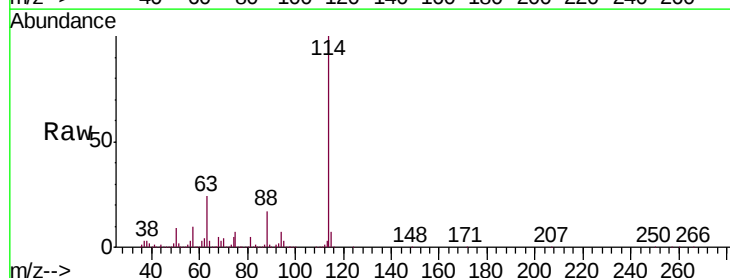
Tgt Ion: 63 Resp: 811805

Ion Ratio Lower Upper

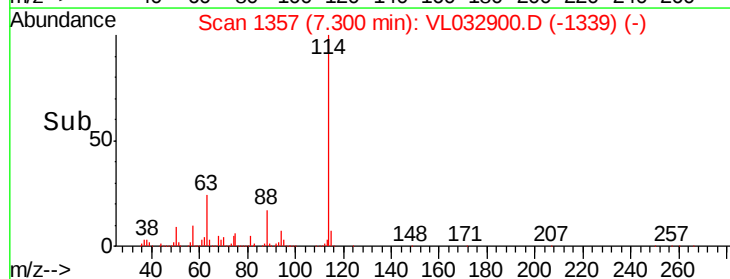
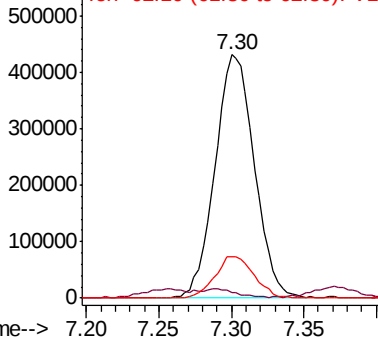
63 100

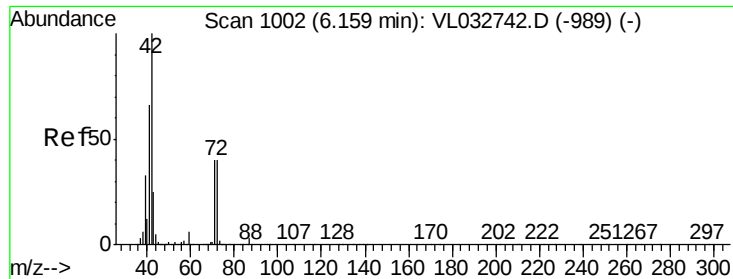
41 0.0 62.0 93.0#

62 16.9 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

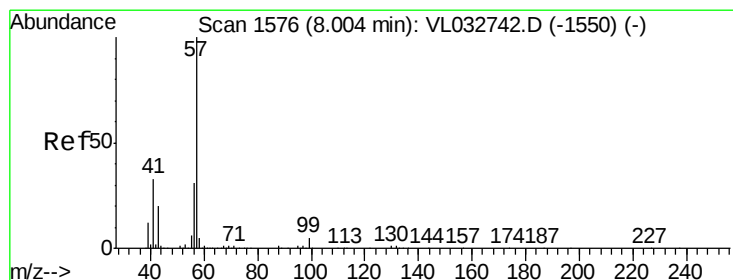
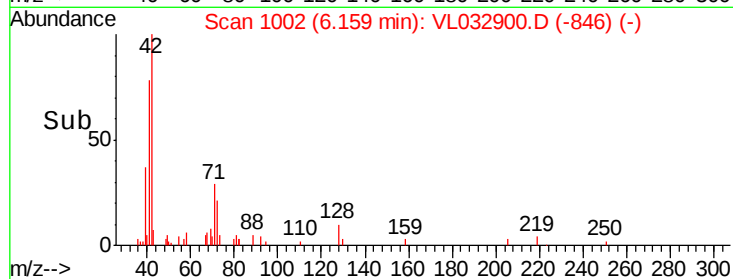
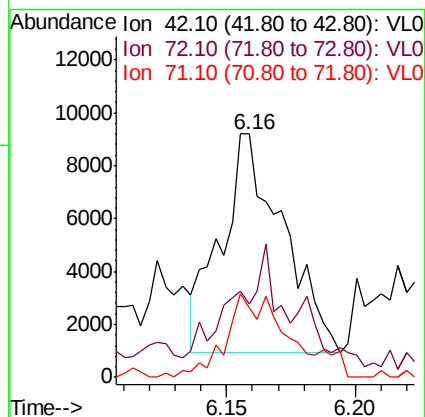
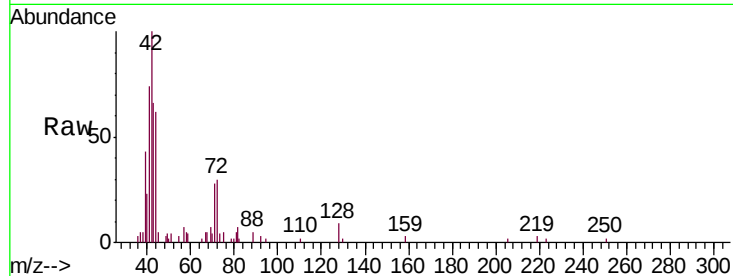




#41
Tetrahydrofuran
Concen: 0.132 ppbv
RT: 6.16 min Scan# 1002
Delta R.T. 0.00 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

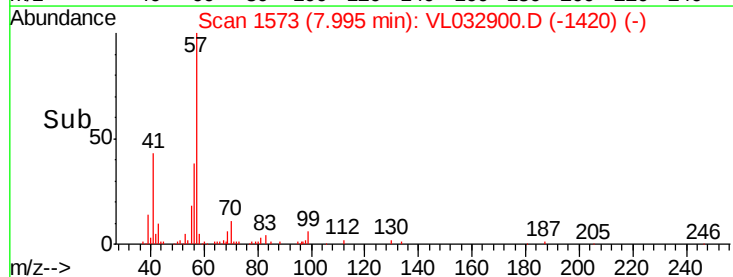
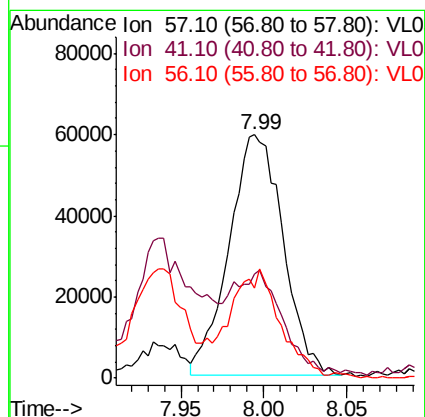
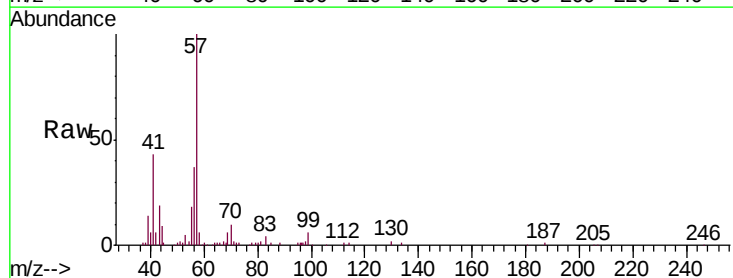
Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUP

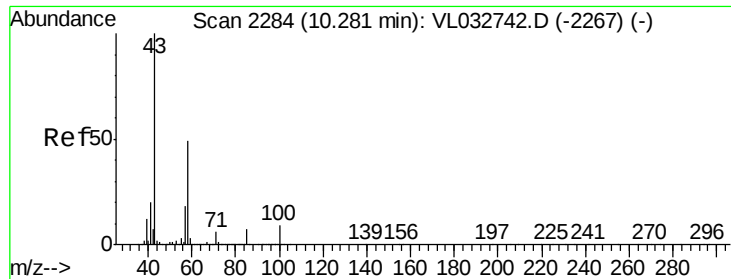
Tgt Ion: 42 Resp: 13836
Ion Ratio Lower Upper
42 100
72 66.6 32.4 48.6#
71 40.2 31.6 47.4



#44
2,2,4-Trimethylpentane
Concen: 0.285 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

Tgt Ion: 57 Resp: 133836
Ion Ratio Lower Upper
57 100
41 41.3 26.6 39.8#
56 42.3 24.8 37.2#

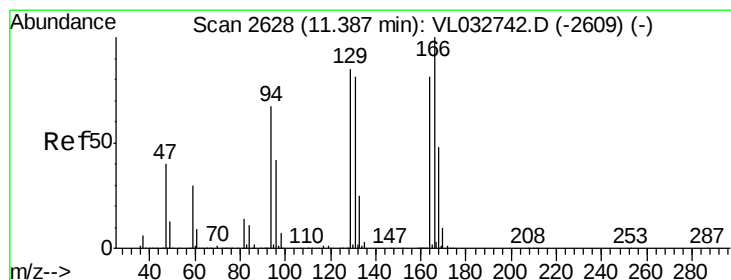
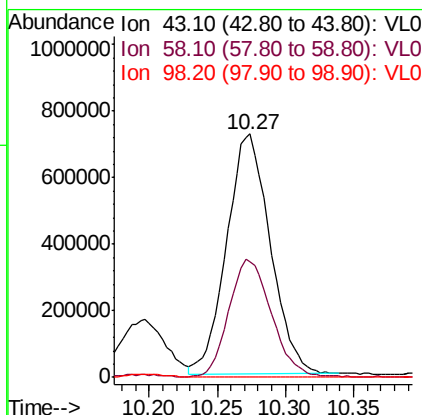
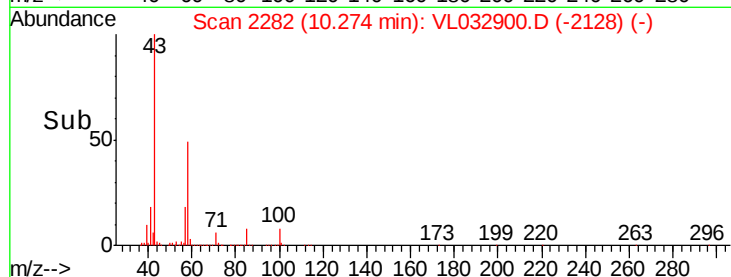
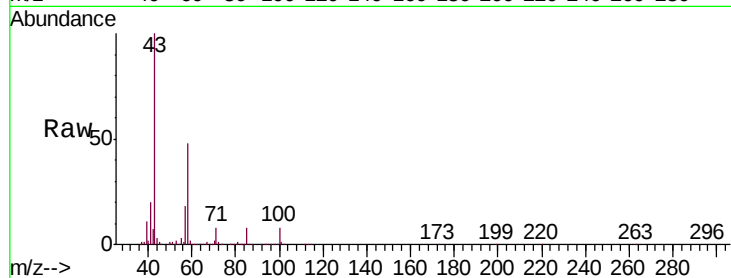




#51
2-Hexanone
Concen: 8.737 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. -0.01 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

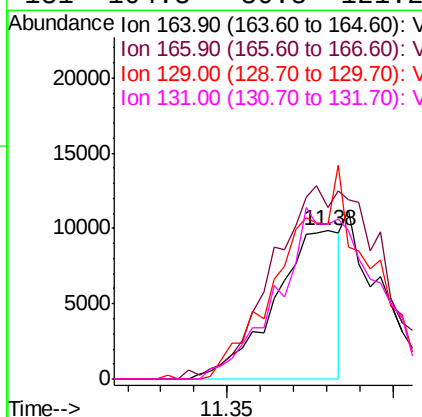
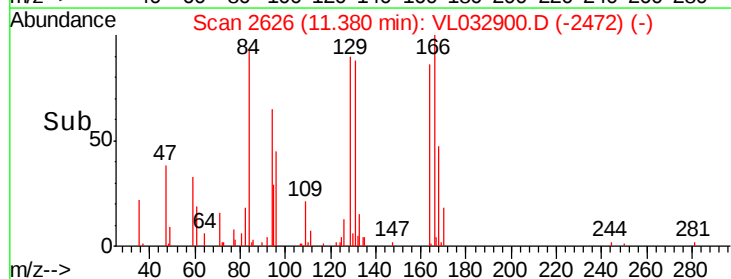
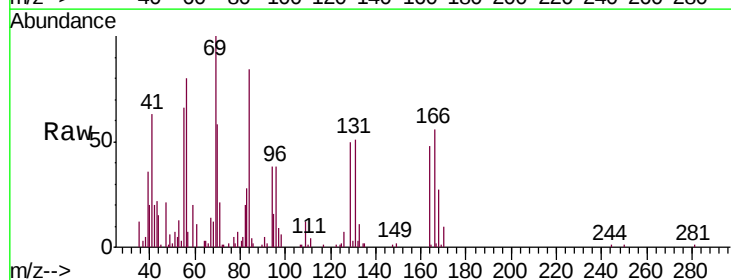
Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUP

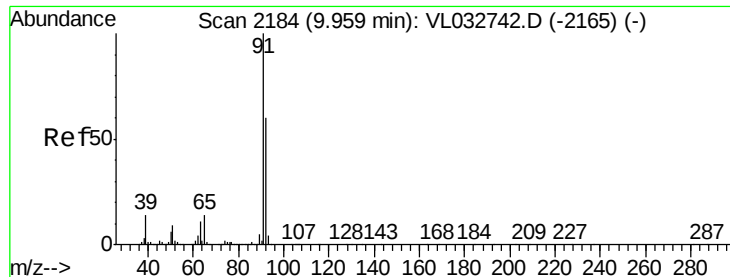
Tgt Ion: 43 Resp: 1607103
Ion Ratio Lower Upper
43 100
58 47.6 38.9 58.3
98 0.3 0.2 0.4



#52
Tetrachloroethene
Concen: 0.139 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.01 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

Tgt Ion: 164 Resp: 13523
Ion Ratio Lower Upper
164 100
166 110.3 99.3 148.9
129 104.3 83.9 125.9
131 104.8 80.8 121.2





#53

Toluene

Concen: 1.468 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

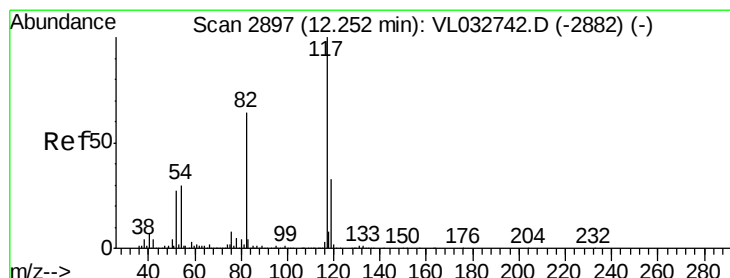
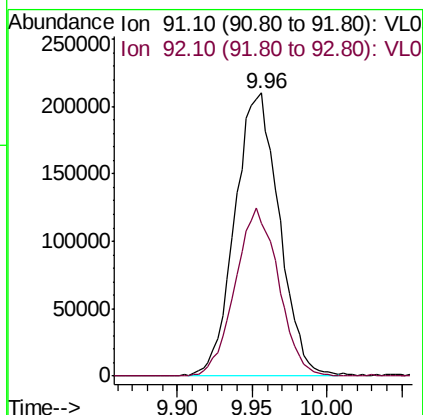
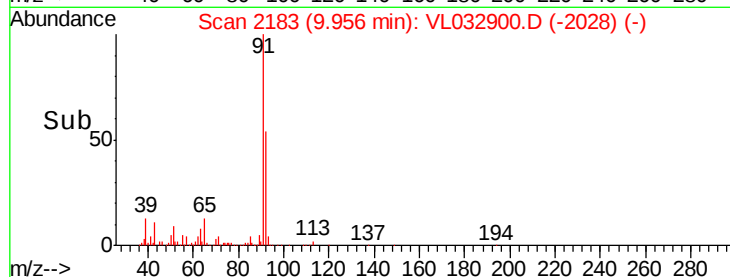
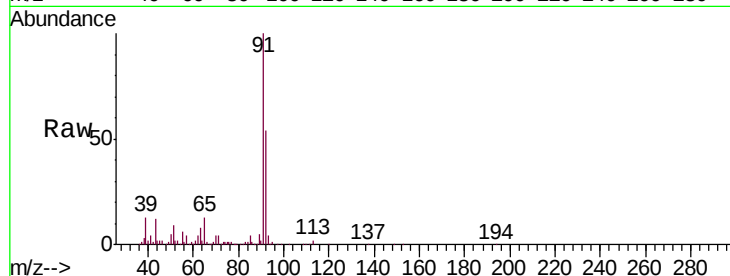
VIELE-DUP

Tgt Ion: 91 Resp: 429813

Ion Ratio Lower Upper

91 100

92 58.7 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: VL032900.D

Acq: 5 Dec 2018 6:35

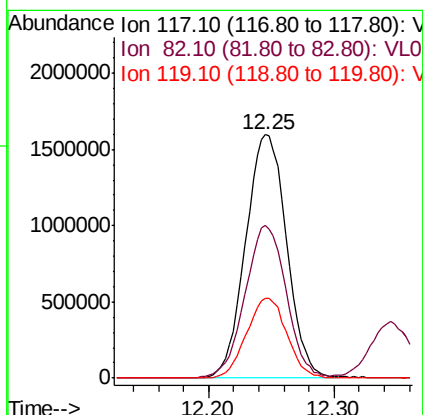
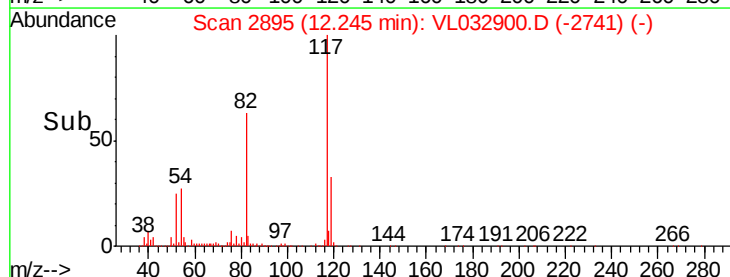
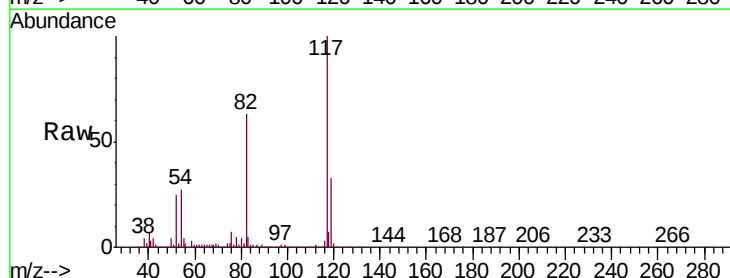
Tgt Ion: 117 Resp: 3632197

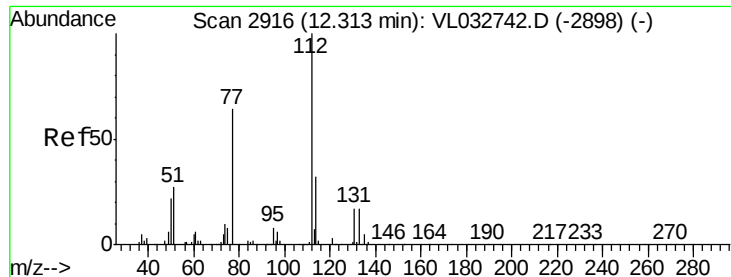
Ion Ratio Lower Upper

117 100

82 63.5 51.0 76.6

119 32.5 28.0 42.0





#57

Chlorobenzene

Concen: 0.185 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. -0.01 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

VIELE-DUP

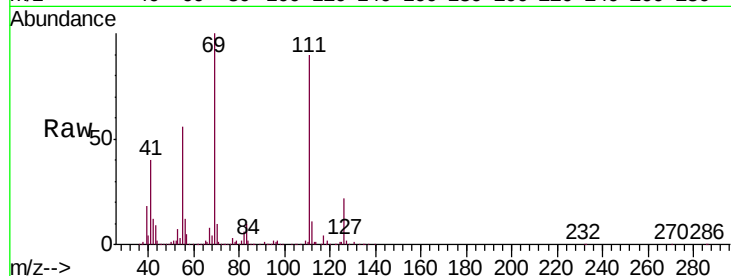
Tgt Ion: 112 Resp: 51549

Ion Ratio Lower Upper

112 100

77 0.0 52.3 78.5#

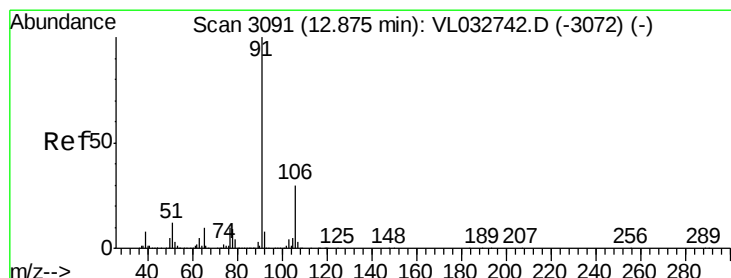
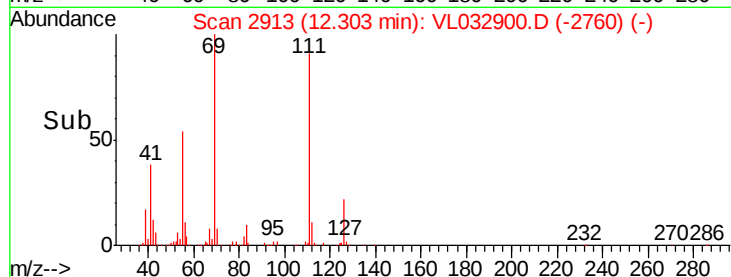
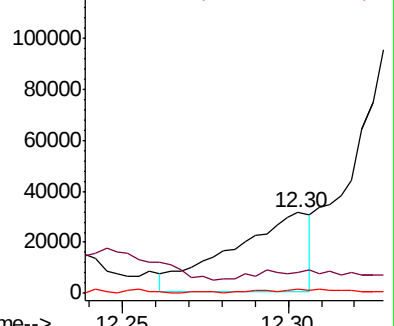
114 4.3 28.4 34.8#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.279 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.01 min

Lab File: VL032900.D

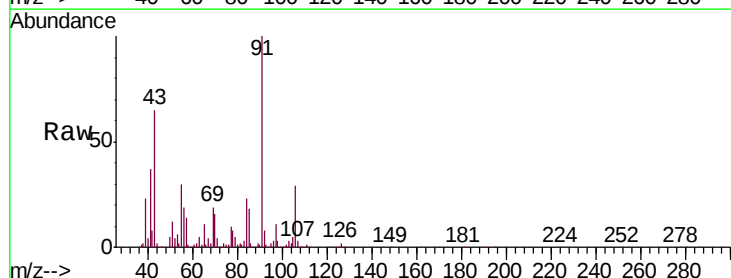
Acq: 5 Dec 2018 6:35

Tgt Ion: 91 Resp: 558920

Ion Ratio Lower Upper

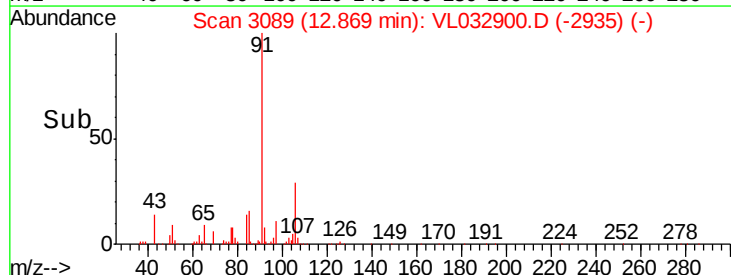
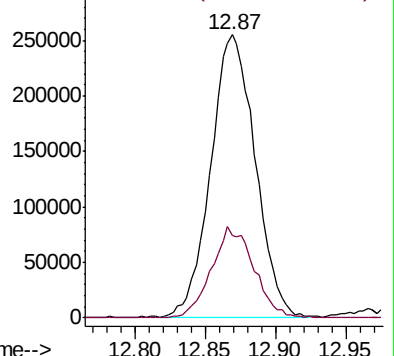
91 100

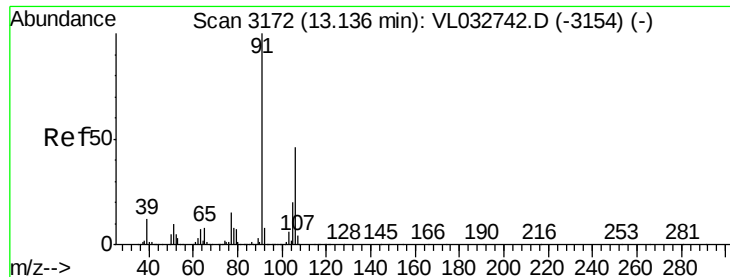
106 29.0 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

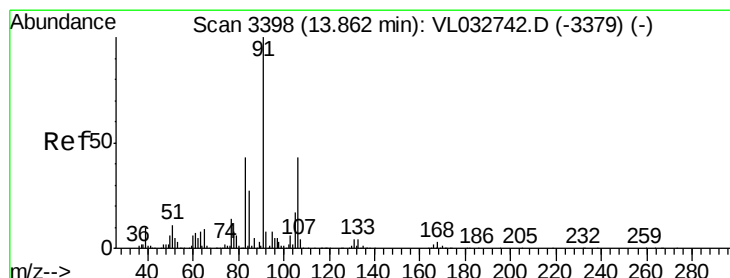
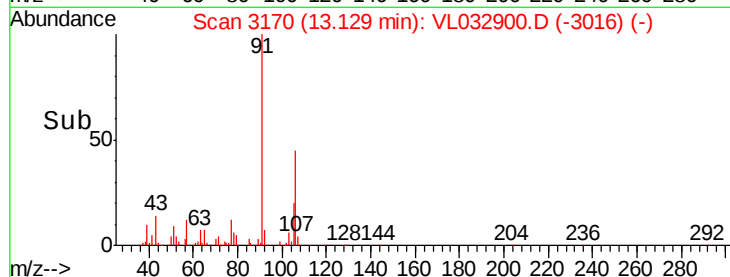
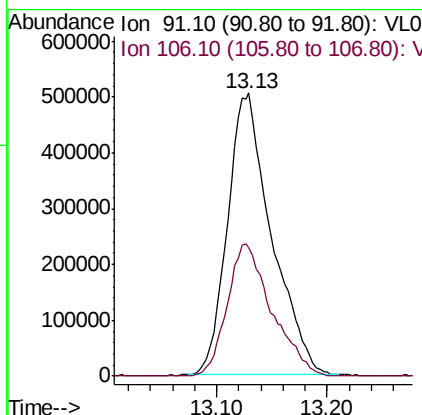
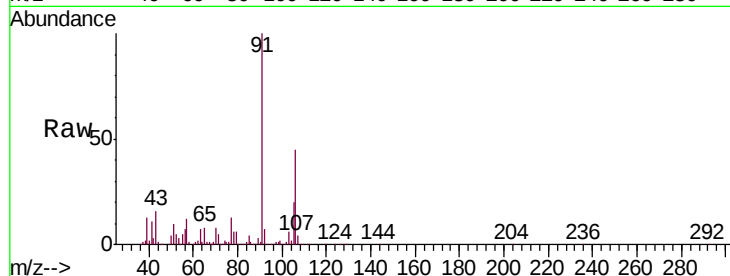




#59
m/p-Xylene
Concen: 3.577 ppbv
RT: 13.13 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

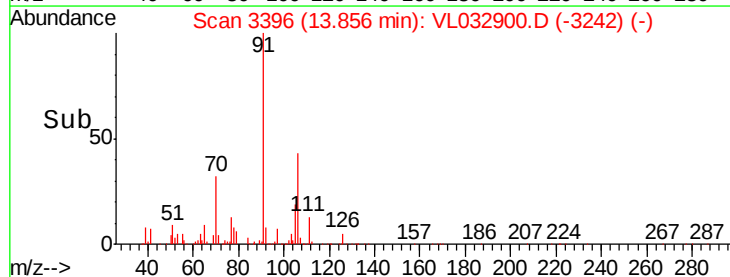
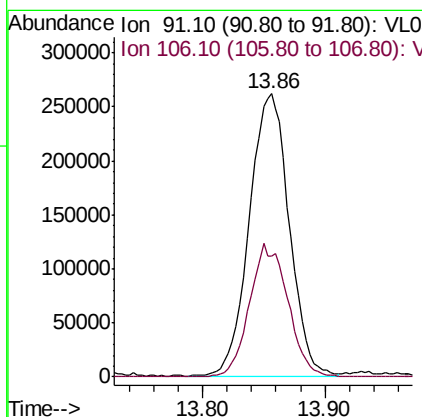
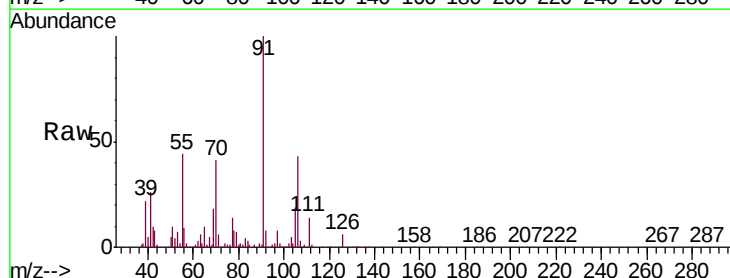
Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUP

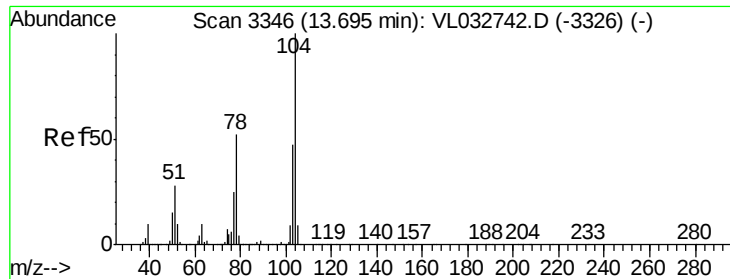
Tgt Ion: 91 Resp: 1391852
Ion Ratio Lower Upper
91 100
106 47.8 36.1 54.1



#60
o-Xylene
Concen: 1.507 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.01 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

Tgt Ion: 91 Resp: 589535
Ion Ratio Lower Upper
91 100
106 45.4 21.9 65.7





#61

Styrene

Concen: 0.177 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.01 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampled :

VIELE-DUP

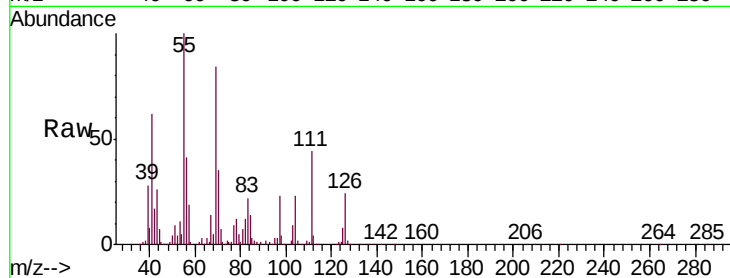
Tgt Ion:104 Resp: 45112

Ion Ratio Lower Upper

104 100

78 93.3 42.2 63.4#

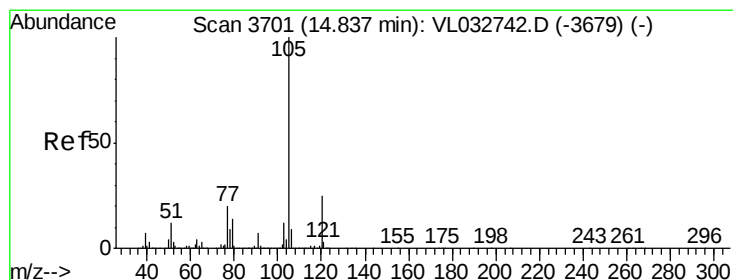
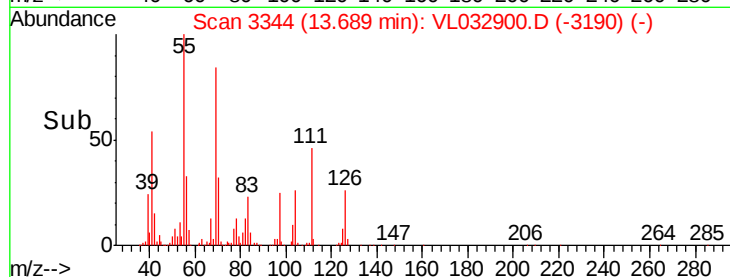
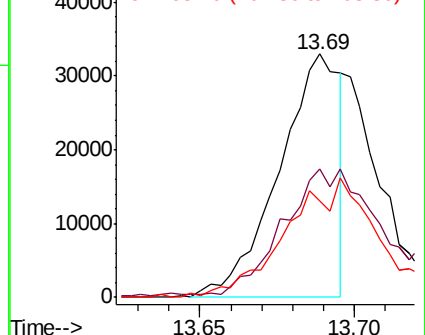
103 74.2 38.2 57.2#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.032 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL032900.D

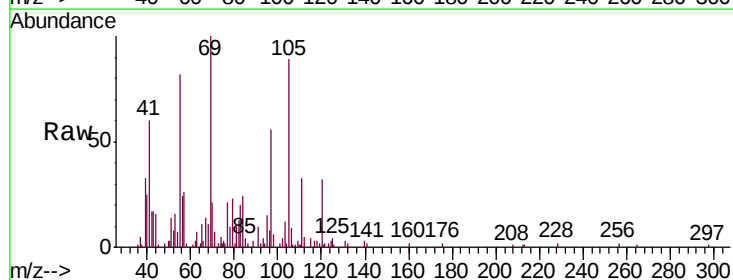
Acq: 5 Dec 2018 6:35

Tgt Ion:105 Resp: 16793

Ion Ratio Lower Upper

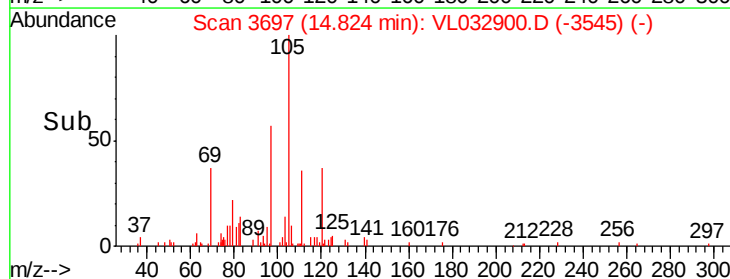
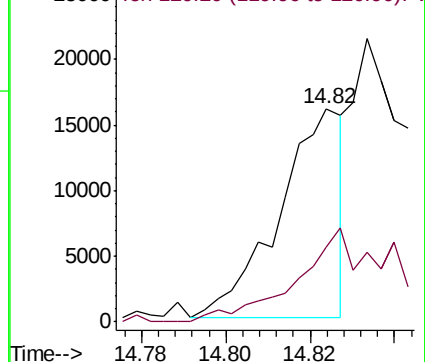
105 100

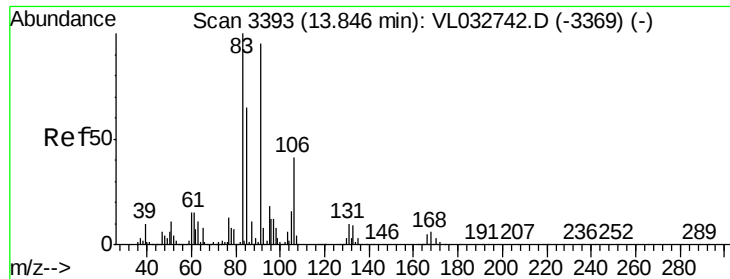
120 75.0 20.1 30.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

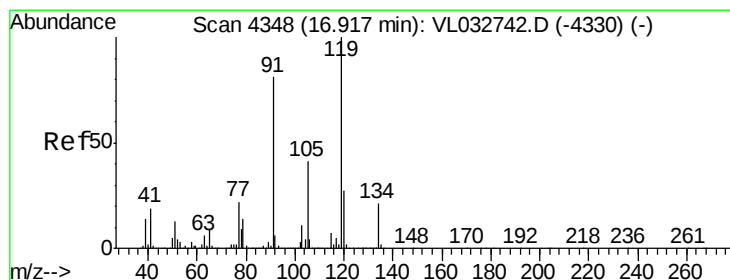
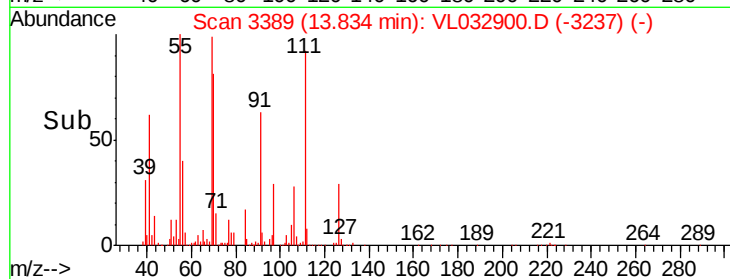
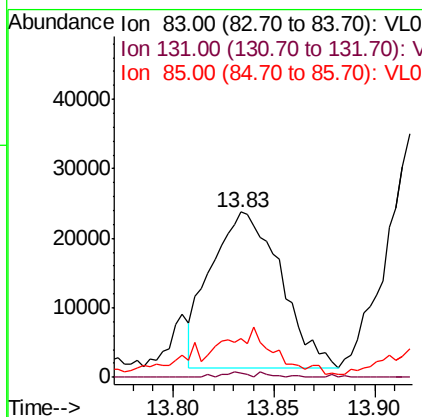
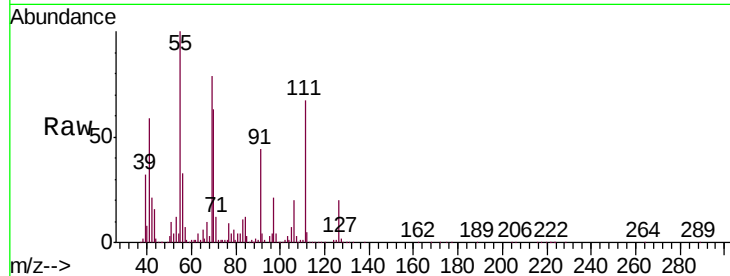




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.176 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.01 min
 Lab File: VL032900.D
 Acq: 5 Dec 2018 6:35

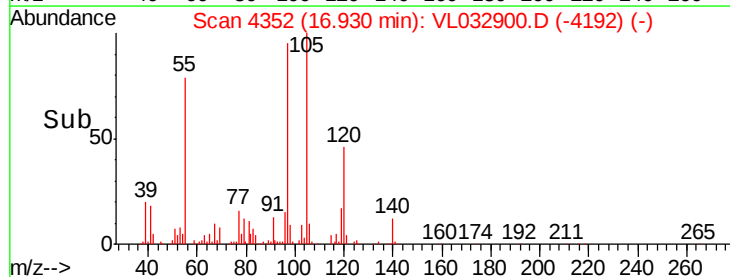
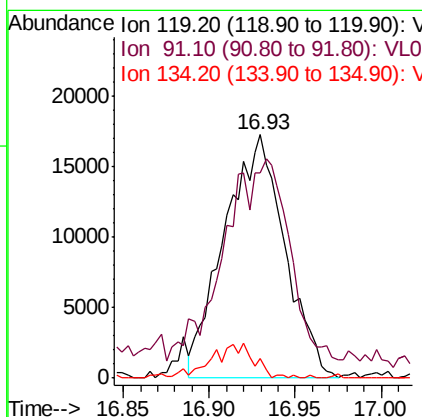
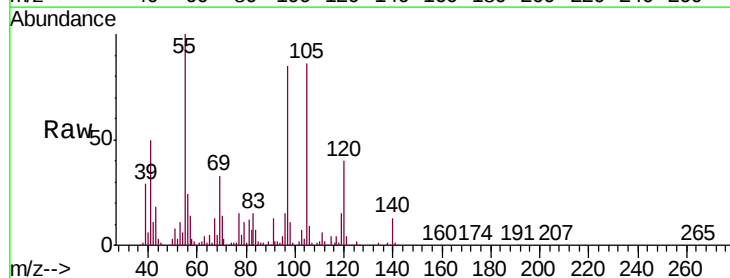
Instrument :
 MSVOA_L
 ClientSampleId :
 VIELE-DUP

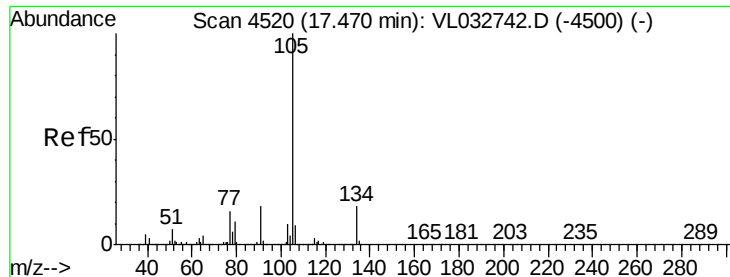
Tgt Ion: 83 Resp: 53812
 Ion Ratio Lower Upper
 83 100
 131 1.6 4.7 14.1#
 85 26.3 32.5 97.4#



#65
 tert-Butylbenzene
 Concen: 0.089 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. 0.01 min
 Lab File: VL032900.D
 Acq: 5 Dec 2018 6:35

Tgt Ion: 119 Resp: 42125
 Ion Ratio Lower Upper
 119 100
 91 100.4 65.6 98.4#
 134 10.9 15.9 23.9#





#67

sec-Butylbenzene

Concen: 0.037 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampled :

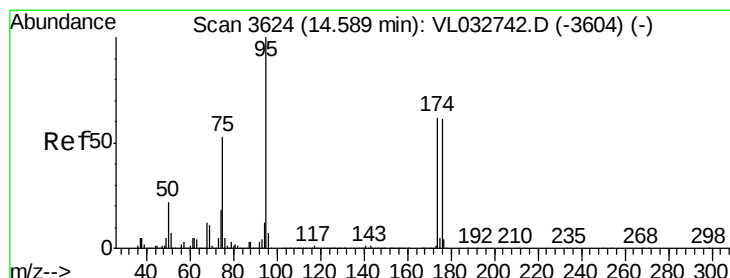
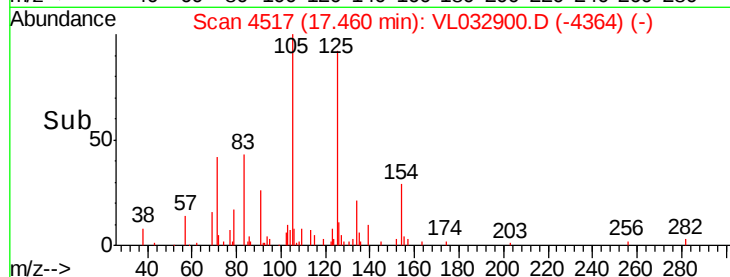
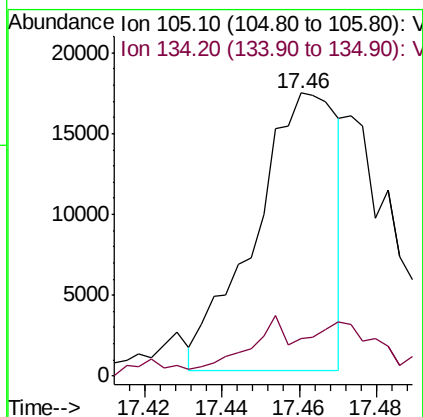
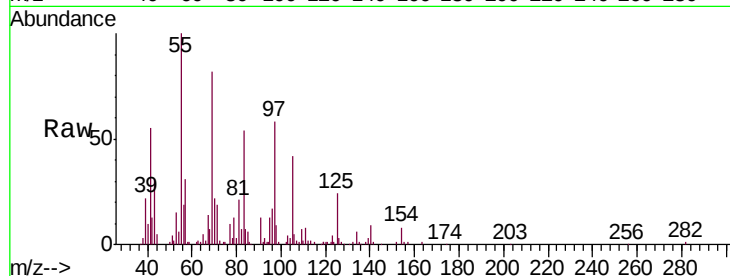
VIELE-DUP

Tgt Ion:105 Resp: 25400

Ion Ratio Lower Upper

105 100

134 28.2 14.6 21.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.925 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

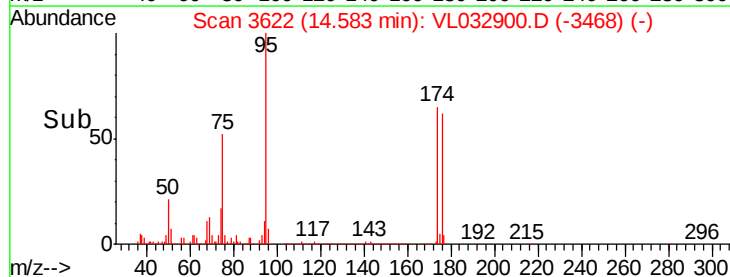
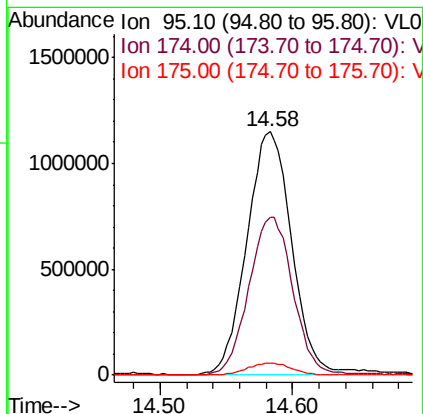
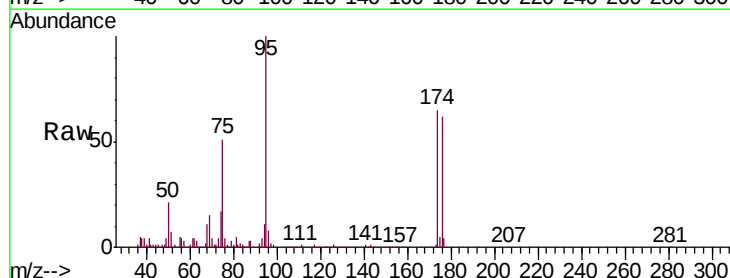
Tgt Ion: 95 Resp: 2696324

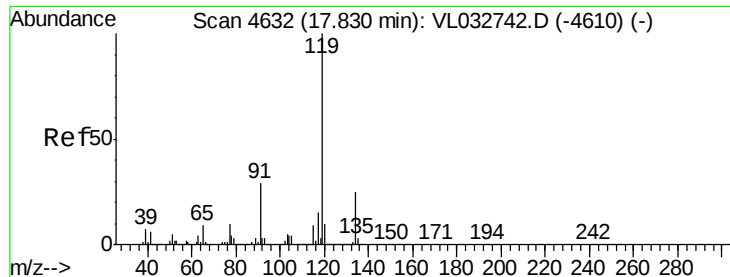
Ion Ratio Lower Upper

95 100

174 65.3 50.7 76.1

175 4.9 3.8 5.6

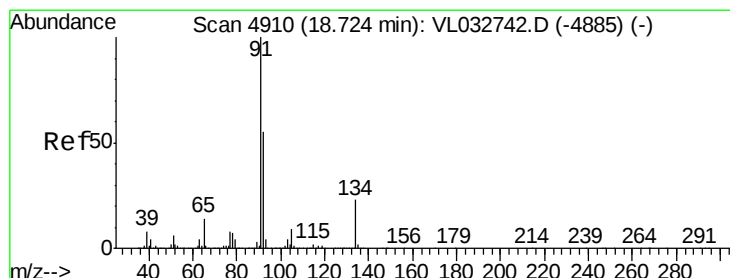
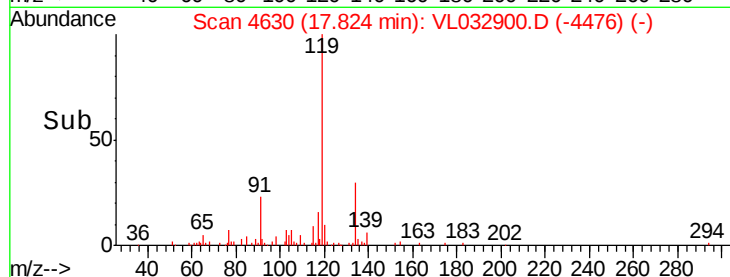
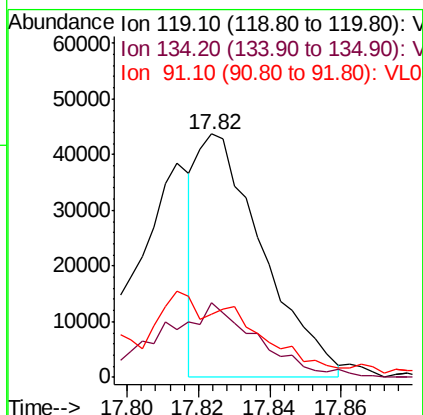
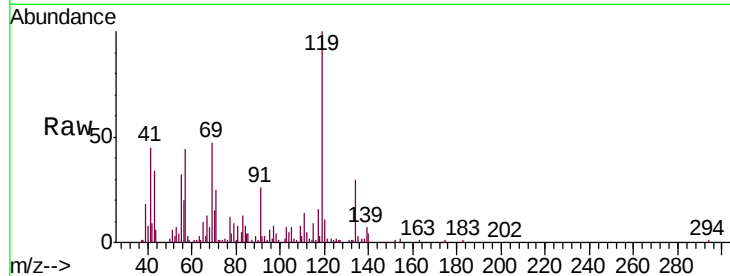




#69
p-Isopropyltoluene
Concen: 0.102 ppbv
RT: 17.82 min Scan# 4630
Delta R.T. -0.01 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

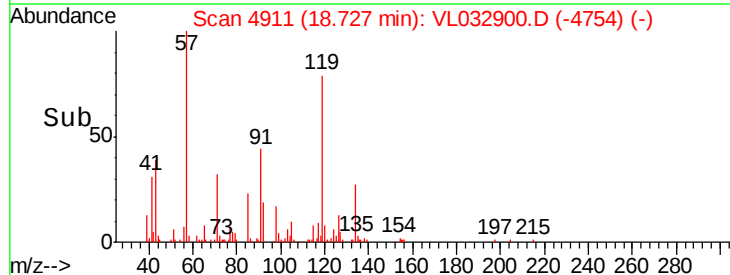
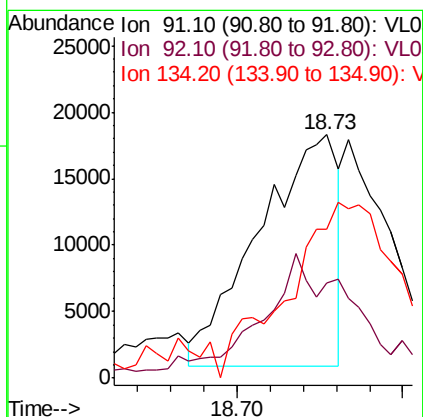
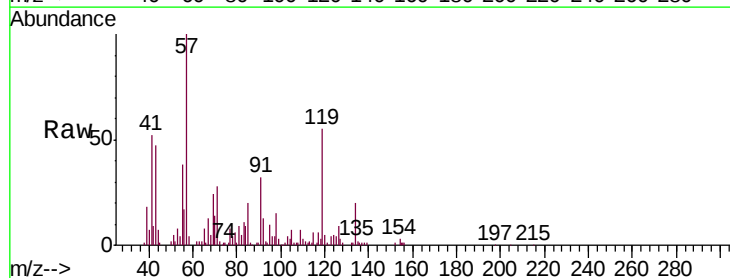
Instrument :
MSVOA_L
ClientSampleId :
VIELE-DUP

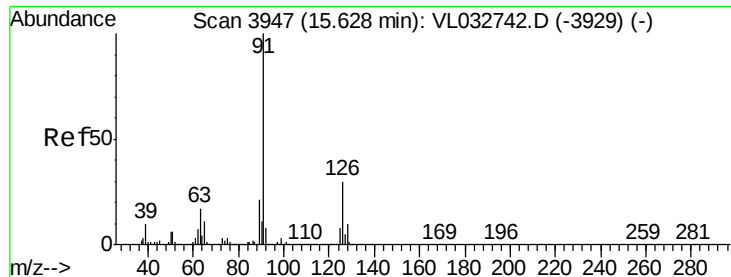
Tgt Ion	Ratio	Lower	Upper
119	100		
134	47.6	20.2	30.4#
91	0.0	23.5	35.3#



#70
n-Butylbenzene
Concen: 0.053 ppbv
RT: 18.73 min Scan# 4911
Delta R.T. 0.00 min
Lab File: VL032900.D
Acq: 5 Dec 2018 6:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	73.4	42.9	64.3#
134	0.0	17.8	26.8#





#71

2-Chlorotoluene

Concen: 0.091 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. 0.10 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

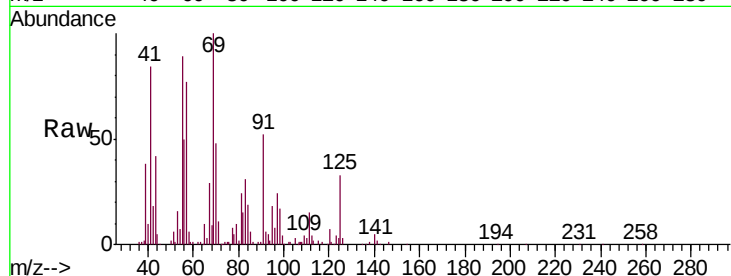
VIELE-DUP

Tgt Ion: 91 Resp: 35697

Ion Ratio Lower Upper

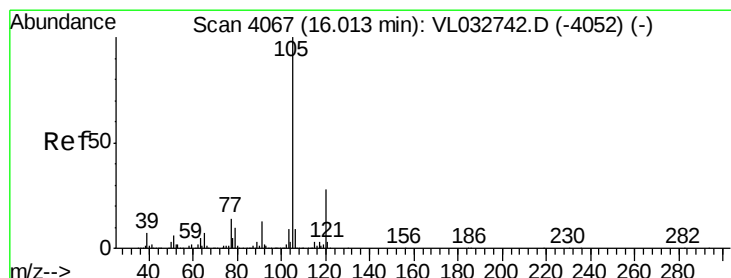
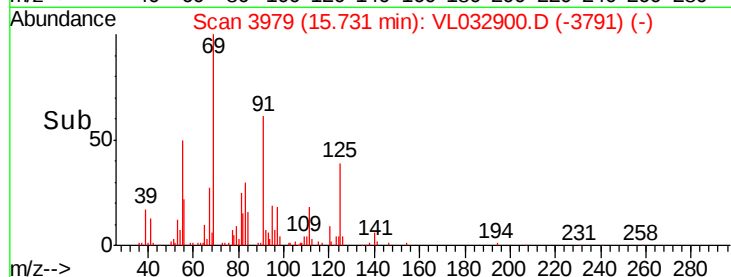
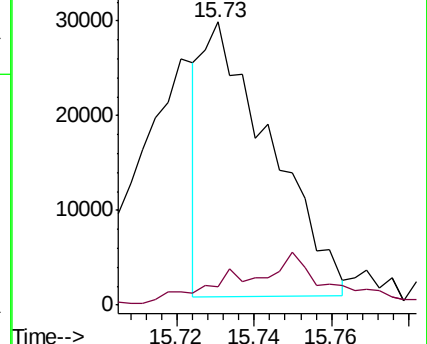
91 100

126 27.9 12.1 48.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.058 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. -0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Tgt Ion: 105 Resp: 24689

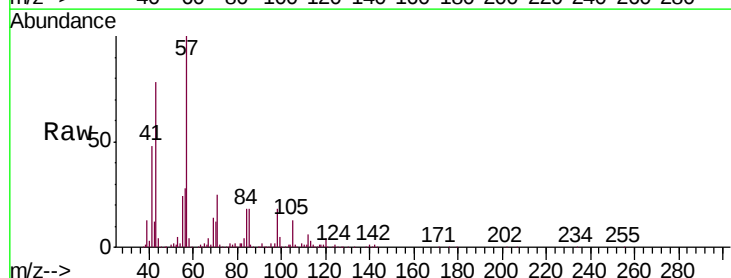
Ion Ratio Lower Upper

105 100

120 64.6 22.9 34.3#

91 0.0 10.6 15.8#

77 0.0 11.4 17.2#

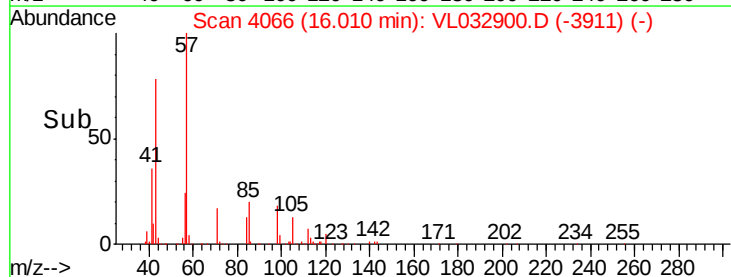
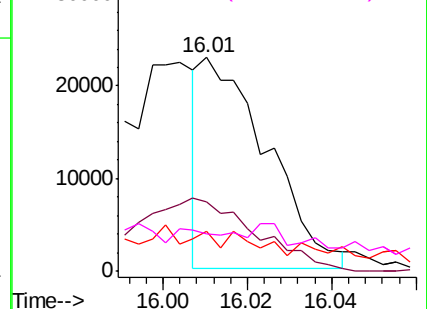


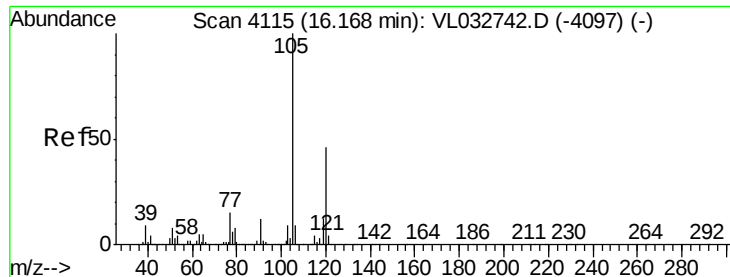
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.255 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Instrument :

MSVOA_L

ClientSampleId :

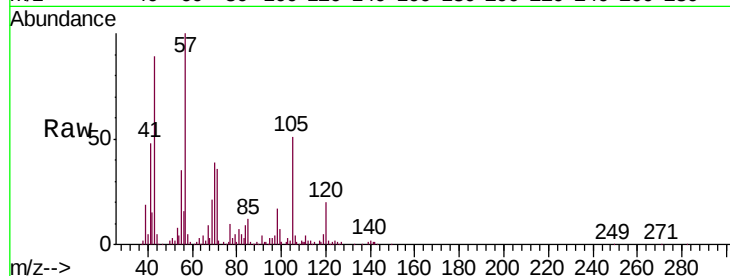
VIELE-DUP

Tgt Ion:105 Resp: 106999

Ion Ratio Lower Upper

105 100

120 39.6 36.6 55.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.17

50000

40000

30000

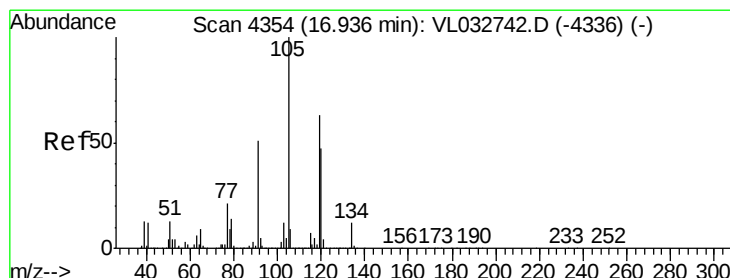
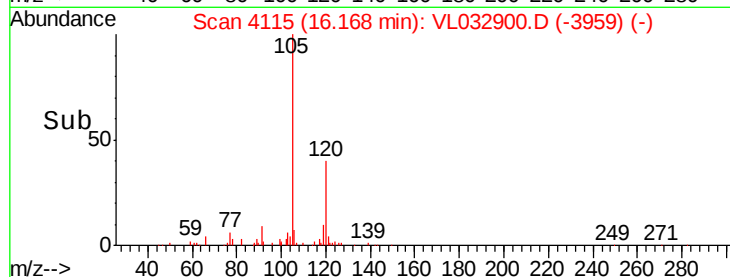
20000

10000

0

16.10 16.15 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.504 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL032900.D

Acq: 5 Dec 2018 6:35

Tgt Ion:105 Resp: 226002

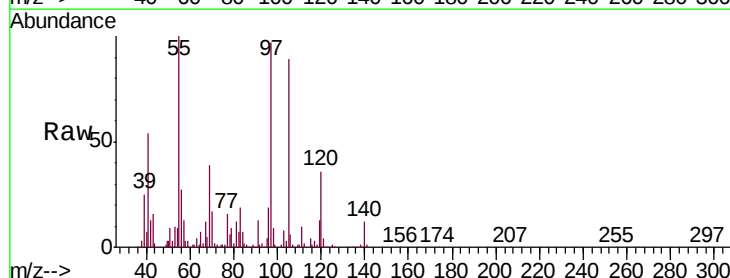
Ion Ratio Lower Upper

105 100

120 40.1 37.6 56.4

91 13.0 42.5 63.7#

77 16.4 17.4 26.2#



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

16.93

150000

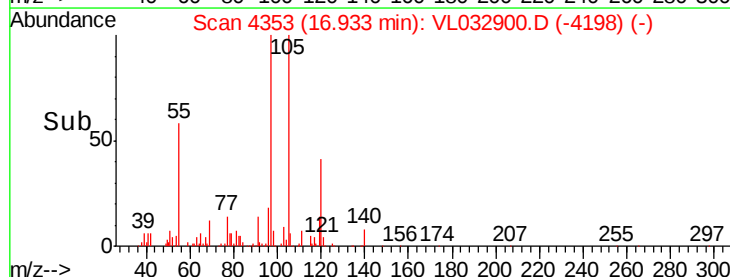
100000

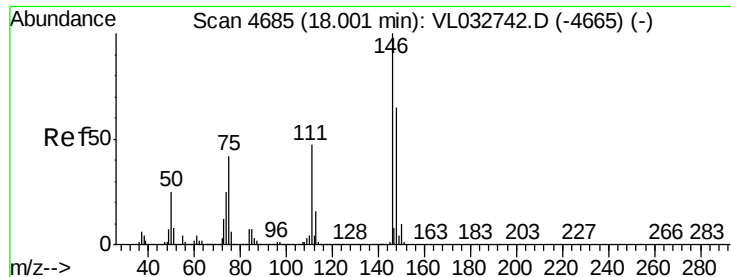
50000

0

16.90 17.00

Time-->

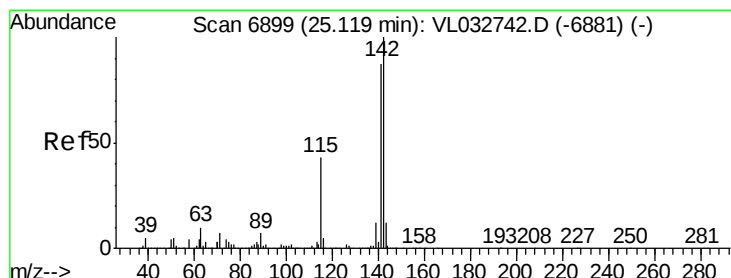
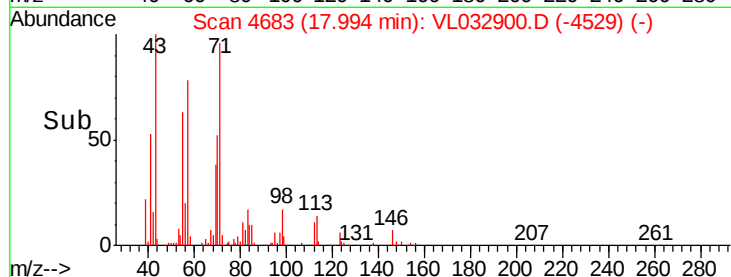
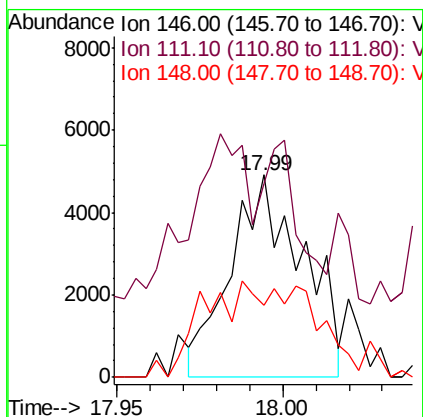
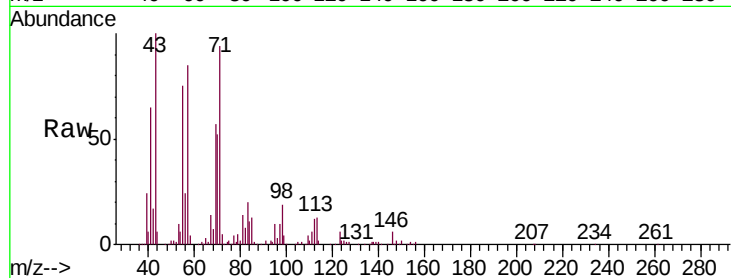




#77
 1,2-Dichlorobenzene
 Concen: 0.031 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. -0.01 min
 Lab File: VL032900.D
 Acq: 5 Dec 2018 6:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VIELE-DUP

Tgt Ion:146 Resp: 7432
 Ion Ratio Lower Upper
 146 100
 111 151.0 24.4 73.2#
 148 75.2 32.2 96.6



#80
 Naphthalene, 2-methyl-
 Concen: 0.038 ppbv
 RT: 25.13 min Scan# 6902
 Delta R.T. 0.01 min
 Lab File: VL032900.D
 Acq: 5 Dec 2018 6:35

Tgt Ion:142 Resp: 2818
 Ion Ratio Lower Upper
 142 100
 141 75.0 68.7 103.1
 115 37.2 35.5 53.3

