

Data File : VL032706.D
Acq On : 30 Oct 2018 20:02
Operator : SY/AP
Sample : J5693-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-1

Quant Time: Oct 31 05:11:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1337215	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3448574	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3452933	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2685538	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.09	85	40373	0.296	ppbv	89
3) Chlorodifluoromethane	3.02	51	32077	0.307	ppbv	96
4) Chloromethane	3.18	50	7055	0.121	ppbv	90
7) Chloroethane	3.61	64	1133	0.049	ppbv #	67
8) Dichlorotetrafluoroethane	3.23	85	6117	0.043	ppbv	89
9) Propene	3.25	41	150675	3.501	ppbv	92
10) Heptane	8.26	43	510738	3.080	ppbv	100
11) Trichlorofluoromethane	4.02	101	36593	0.206	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	13024	0.088	ppbv #	83
13) Ethanol	3.66	45	363099	29.519	ppbv	99
15) Acetone	3.91	43	3051660	24.713	ppbv	94
16) 1,3-Butadiene	3.35	39	90931	2.002	ppbv #	11
17) tert-Butyl alcohol	4.38	59	280805	7.732	ppbv #	100
19) Isopropyl Alcohol	4.04	45	50504	0.574	ppbv #	1
20) Methylene Chloride	4.42	84	71175	1.136	ppbv	94
21) Allyl Chloride	4.45	41	10723	0.106	ppbv #	21
23) Vinyl Acetate	5.15	43	188914	0.863	ppbv #	1
25) Ethyl Acetate	5.80	43	372128	1.309	ppbv #	78
26) Hexane	5.80	57	518847	3.858	ppbv #	42
27) Carbon Disulfide	4.63	76	908250	5.567	ppbv	96
28) Methyl tert-Butyl Ether	5.13	73	73247	0.379	ppbv	96
29) Chloroform	5.86	83	51189	0.238	ppbv #	82
30) Cyclohexane	7.26	84	265422	2.493	ppbv	84
32) 1,1,1-Trichloroethane	6.63	97	60849	0.279	ppbv	97
34) 2-Butanone	5.34	43	122463	0.662	ppbv #	69
35) Carbon Tetrachloride	7.15	117	25625	0.105	ppbv #	83
36) Benzene	7.02	78	1323763	4.727	ppbv	99
37) 1,2-Dichloroethane	6.43	62	6165	0.036	ppbv #	38
38) Trichloroethene	7.98	130	78342	0.756	ppbv	93
39) 1,2-Dichloropropane	7.31	63	845082	7.815	ppbv #	25
41) Tetrahydrofuran	6.15	42	3298	0.032	ppbv #	35
42) Bromodichloromethane	7.93	83	24241	0.101	ppbv #	39
44) 2,2,4-Trimethylpentane	8.00	57	1336281	2.795	ppbv #	86
50) 4-Methyl-2-Pentanone	8.90	43	8348	0.030	ppbv #	38
51) 2-Hexanone	10.27	43	24087	0.118	ppbv #	79
52) Tetrachloroethene	11.39	164	729044	7.467	ppbv	97
53) Toluene	9.96	91	7357748	22.921	ppbv	100
58) Ethyl Benzene	12.88	91	1252099	3.121	ppbv	96
59) m/p-Xylene	13.14	91	4085698	11.438	ppbv	98
60) o-Xylene	13.86	91	1393121	4.043	ppbv	99
61) Styrene	13.70	104	40988	0.177	ppbv #	50

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL103018\
Quantitation Report (Not Reviewed)

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ClientSampleId :
SS-1

Quant Time: Oct 31 05:11:07 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) Isopropylbenzene	14.85	105	49551	0.102	ppbv	97
64) n-propylbenzene	15.74	120	20972	0.173	ppbv #	1
65) tert-Butylbenzene	16.94	119	72317	0.174	ppbv #	69
69) p-Isopropyltoluene	17.83	119	21214	0.045	ppbv #	71
71) 2-Chlorotoluene	15.74	91	200994	0.580	ppbv #	46
72) 4-Ethyltoluene	16.01	105	113816	0.310	ppbv #	50
73) 1,3,5-Trimethylbenzene	16.17	105	174578	0.488	ppbv	95
74) 1,2,4-Trimethylbenzene	16.94	105	610717	1.600	ppbv #	79
75) 1,3-Dichlorobenzene	17.18	146	7293	0.033	ppbv #	23
79) Naphthalene	22.43	128	183112	0.772	ppbv	98
80) Naphthalene,2-methyl-	25.13	142	48305	0.837	ppbv	94

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

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Acq On : 30 Oct 2018 20:02

Operator : SY/AP

Sample : J5693-01

Misc : 400ml/MSVOA L

```
ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_L
ClientSampleId :
SS-1

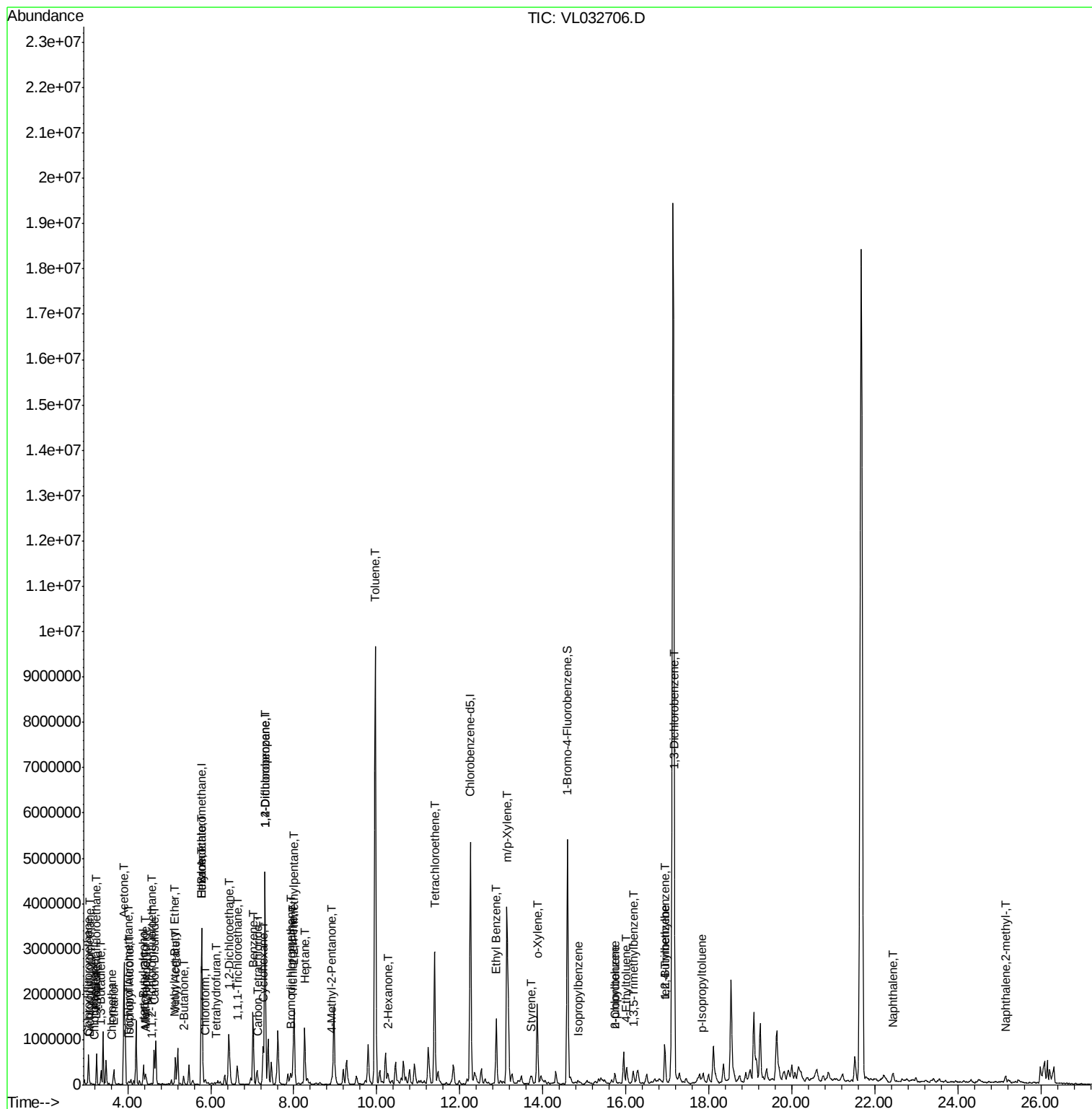
Quant Time: Oct 31 05:11:07 2018

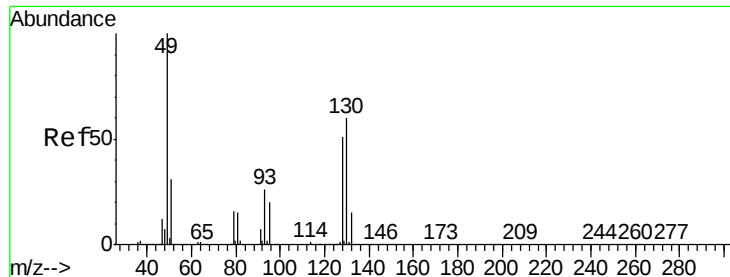
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL101818AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018

QLast Update : Thu Oct 25 05:15:43 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

SS-1

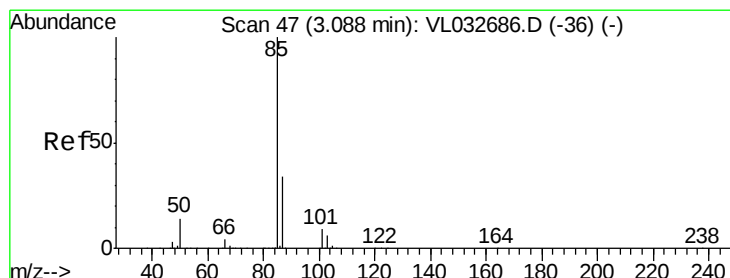
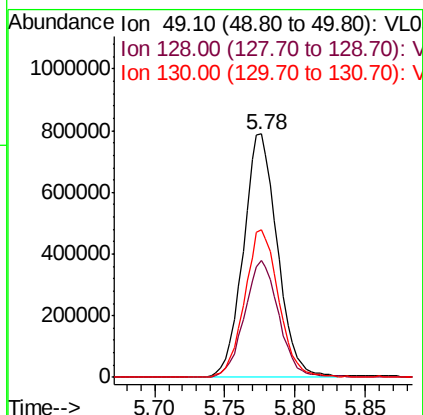
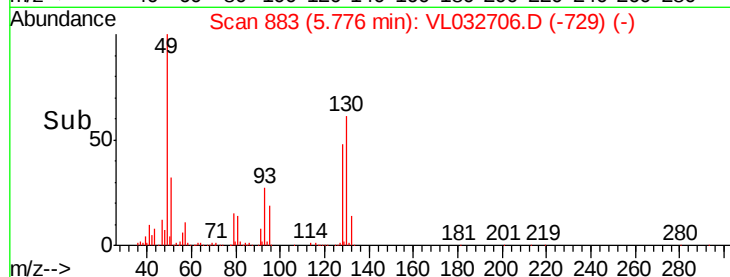
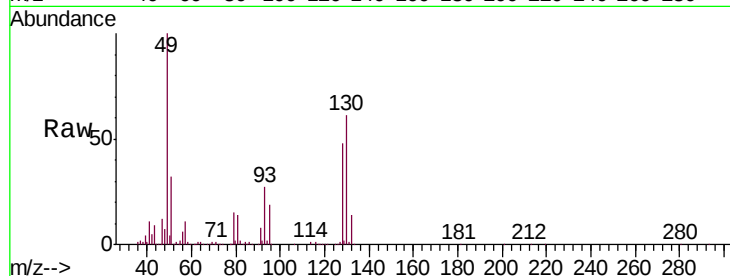
Tgt Ion: 49 Resp: 1337215

Ion Ratio Lower Upper

49 100

128 48.4 22.3 66.8

130 60.8 28.4 85.3



#2

Dichlorodifluoromethane

Concen: 0.296 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032706.D

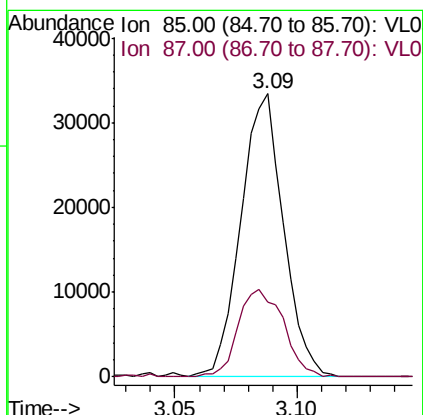
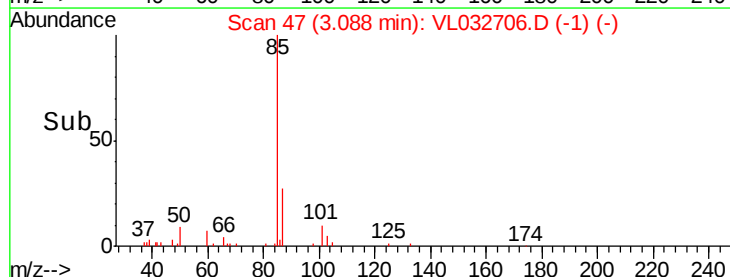
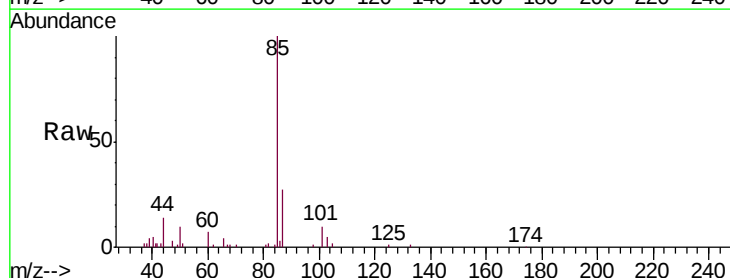
Acq: 30 Oct 2018 20:02

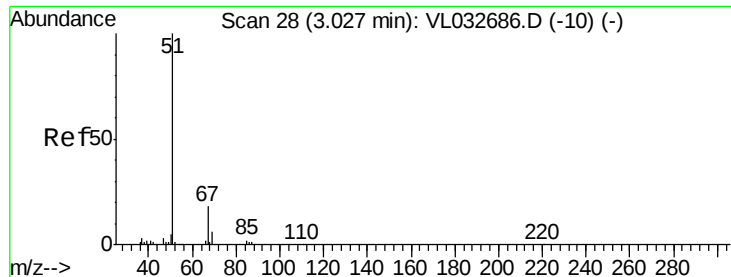
Tgt Ion: 85 Resp: 40373

Ion Ratio Lower Upper

85 100

87 26.6 26.2 39.2





#3

Chlorodifluoromethane

Concen: 0.307 ppbv

RT: 3.02 min Scan# 27

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

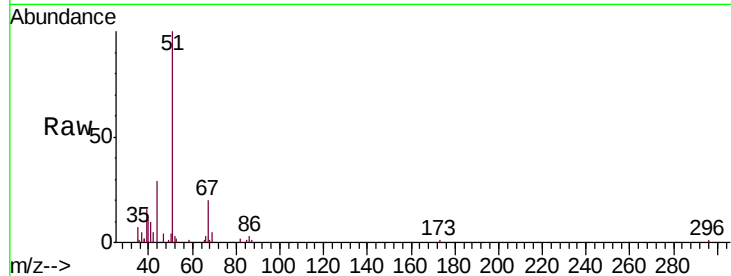
SS-1

Tgt Ion: 51 Resp: 32077

Ion Ratio Lower Upper

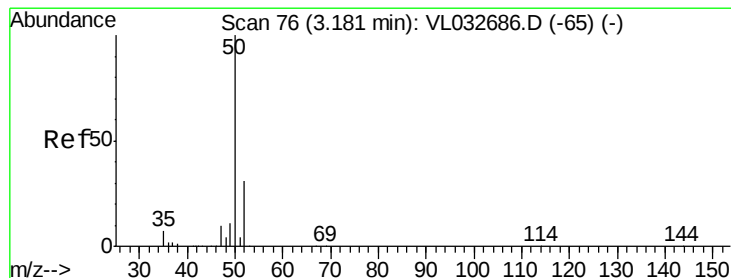
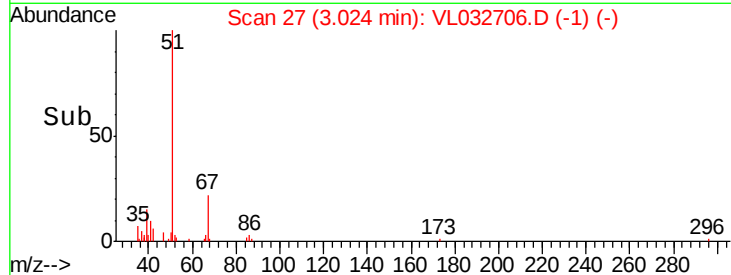
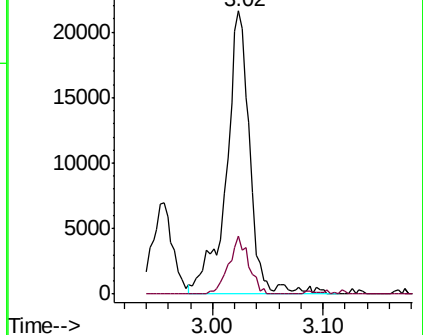
51 100

67 17.2 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.121 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL032706.D

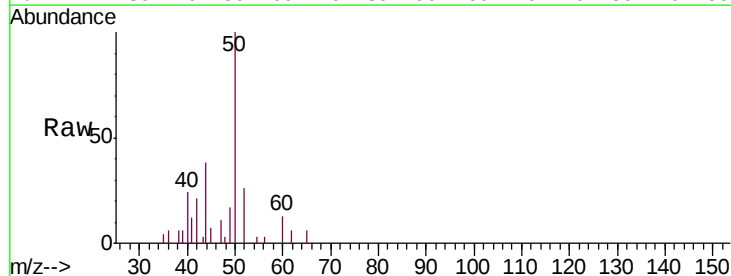
Acq: 30 Oct 2018 20:02

Tgt Ion: 50 Resp: 7055

Ion Ratio Lower Upper

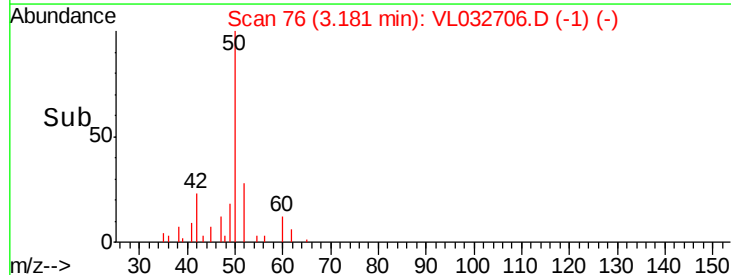
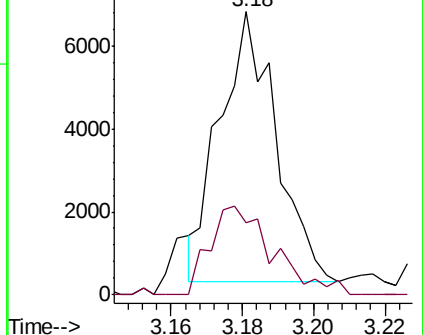
50 100

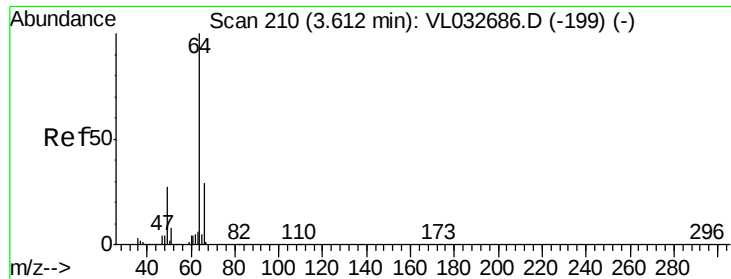
52 27.0 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.049 ppbv

RT: 3.61 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

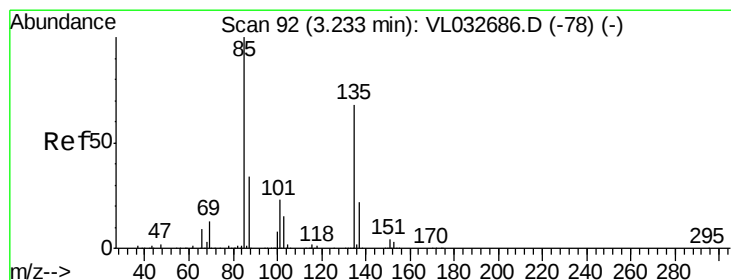
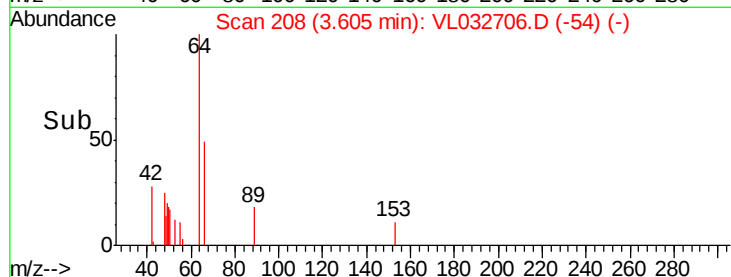
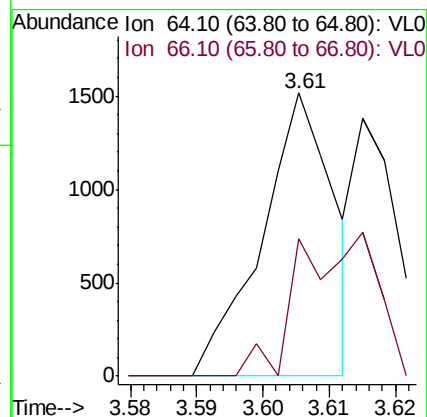
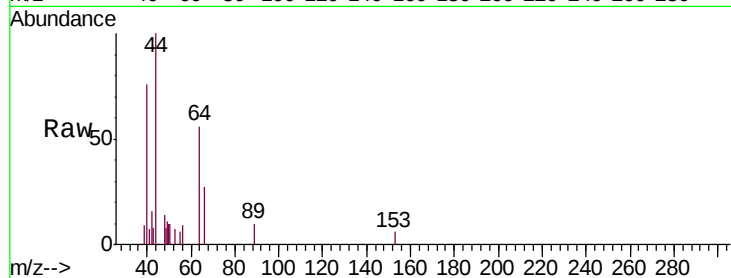
SS-1

Tgt Ion: 64 Resp: 1133

Ion Ratio Lower Upper

64 100

66 48.7 24.4 36.6#



#8

Dichlorotetrafluoroethane

Concen: 0.043 ppbv

RT: 3.23 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL032706.D

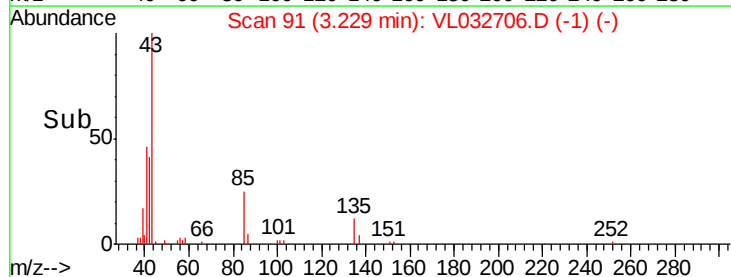
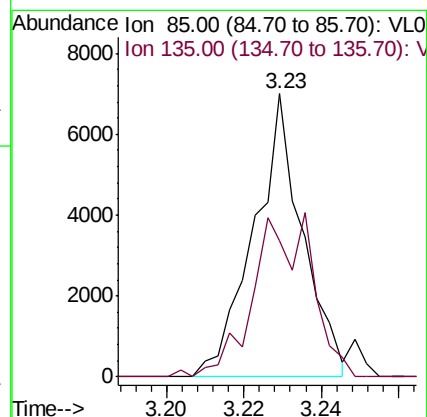
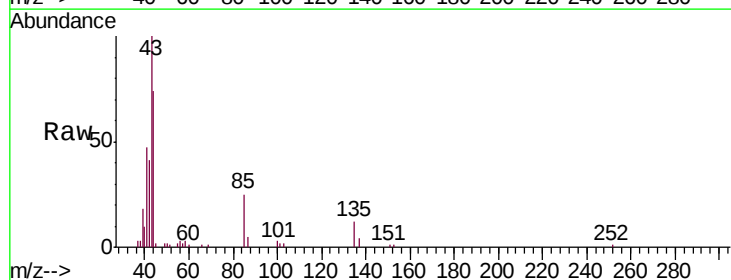
Acq: 30 Oct 2018 20:02

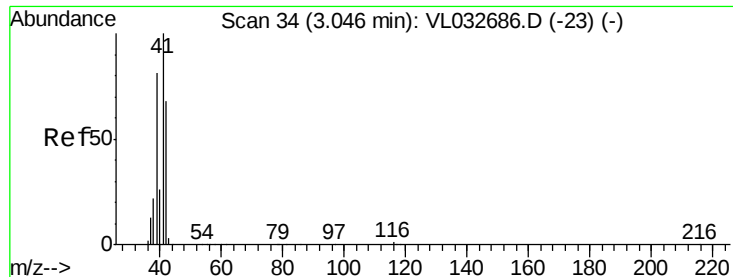
Tgt Ion: 85 Resp: 6117

Ion Ratio Lower Upper

85 100

135 69.2 49.0 73.4





#9

Propene

Concen: 3.501 ppbv

RT: 3.25 min Scan# 96

Delta R.T. 0.20 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampled :

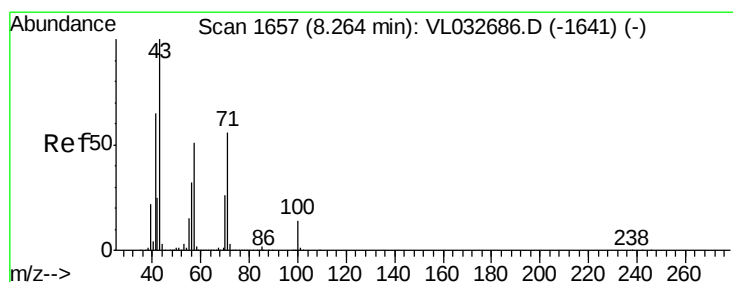
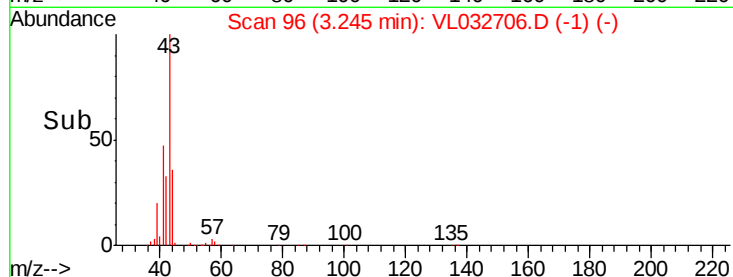
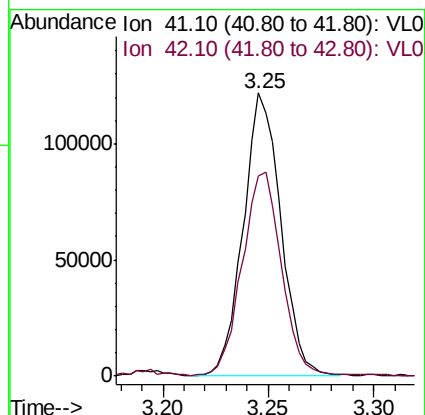
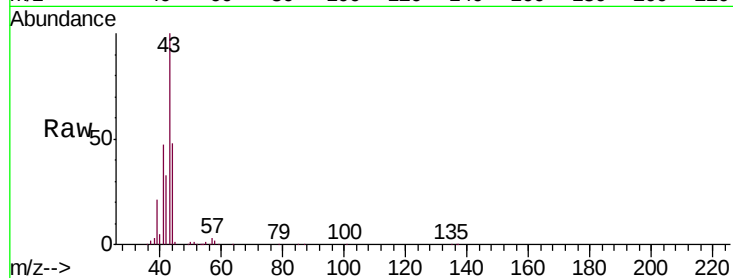
SS-1

Tgt Ion: 41 Resp: 150675

Ion Ratio Lower Upper

41 100

42 75.6 55.4 83.0



#10

Heptane

Concen: 3.080 ppbv

RT: 8.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL032706.D

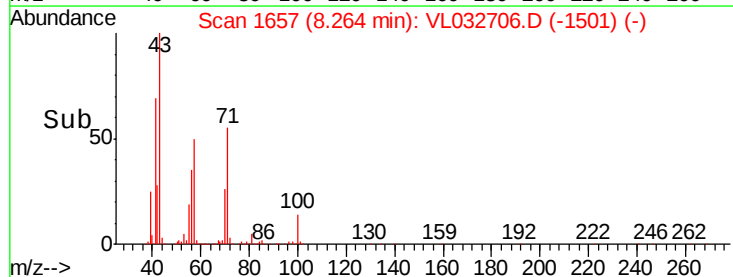
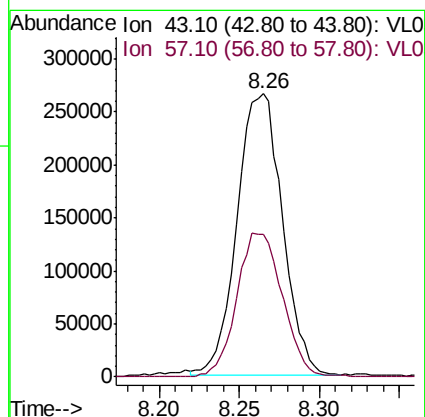
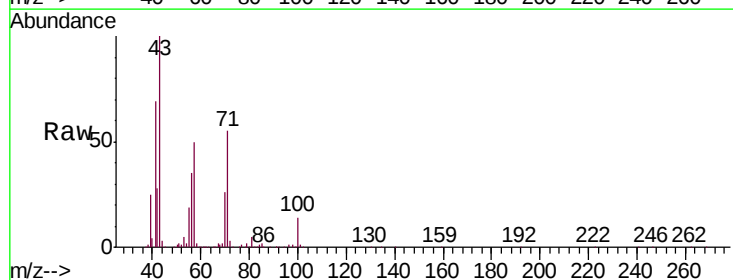
Acq: 30 Oct 2018 20:02

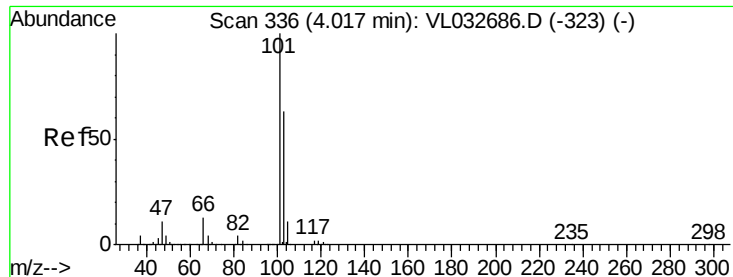
Tgt Ion: 43 Resp: 510738

Ion Ratio Lower Upper

43 100

57 51.9 41.5 62.3

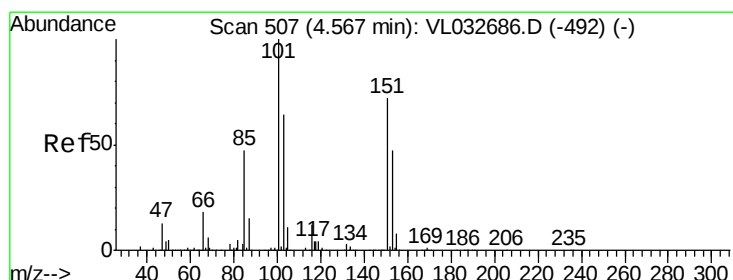
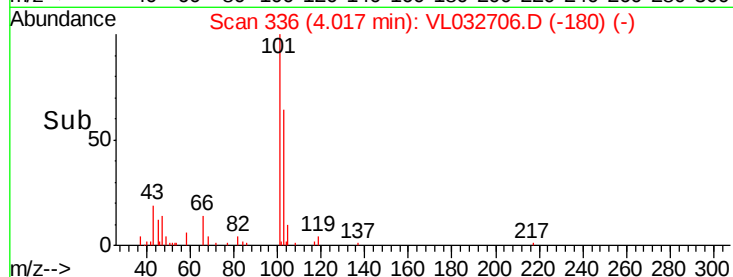
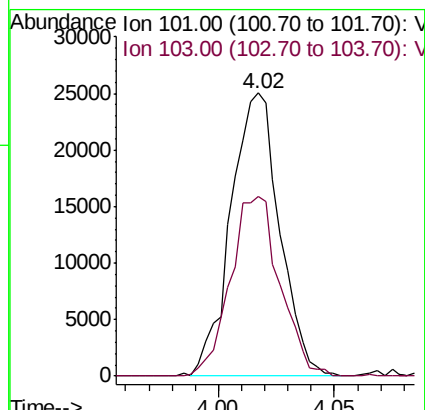
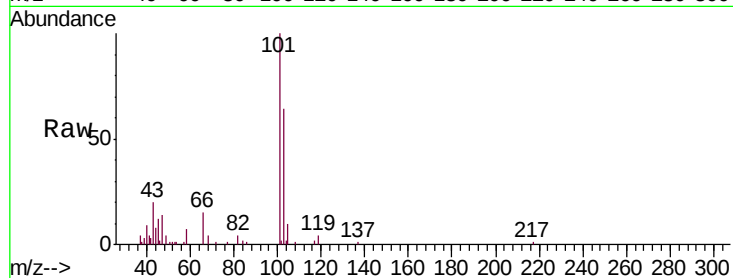




#11
 Trichlorofluoromethane
 Concen: 0.206 ppbv
 RT: 4.02 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

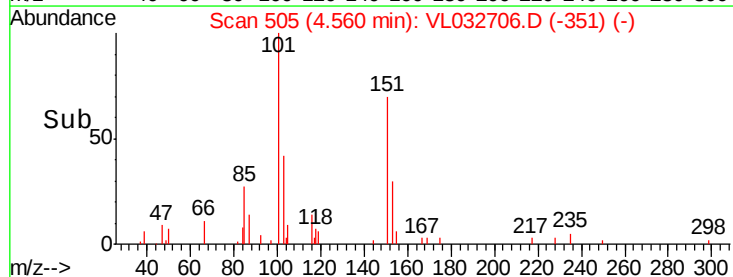
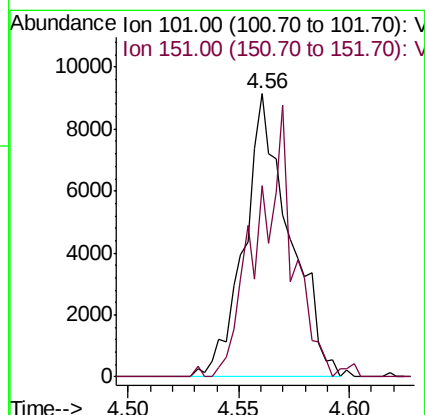
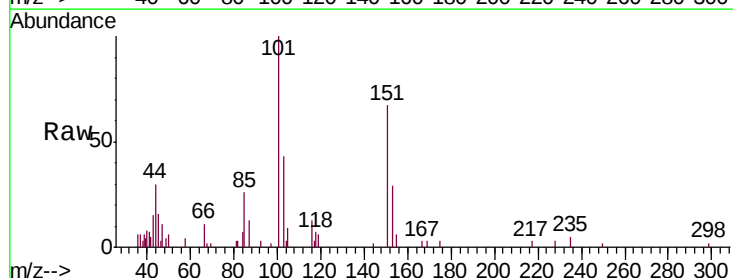
Instrument :
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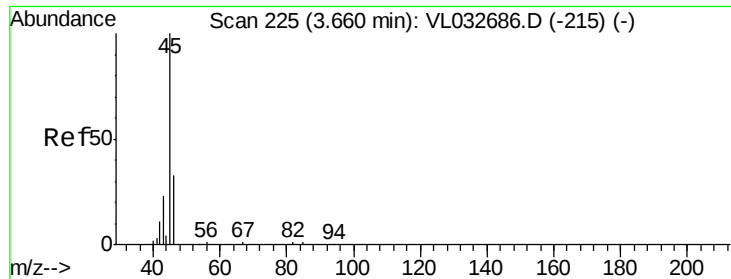
Tgt Ion:101 Resp: 36593
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.4 77.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.088 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

Tgt Ion:101 Resp: 13024
 Ion Ratio Lower Upper
 101 100
 151 78.8 52.3 78.5#





#13

Ethanol

Concen: 29.519 ppbv

RT: 3.66 min Scan# 225

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

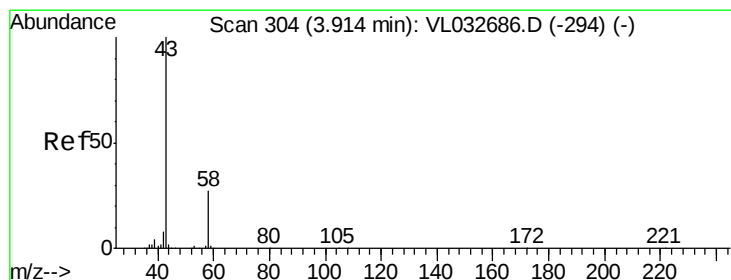
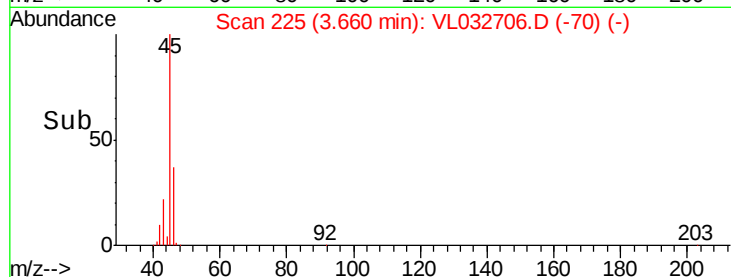
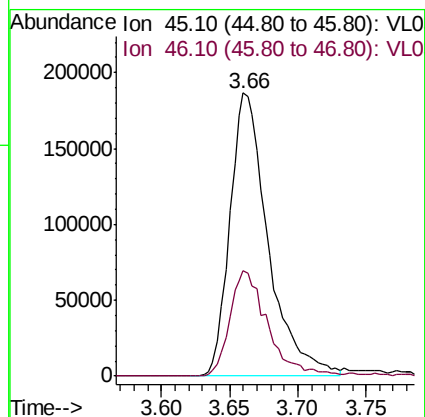
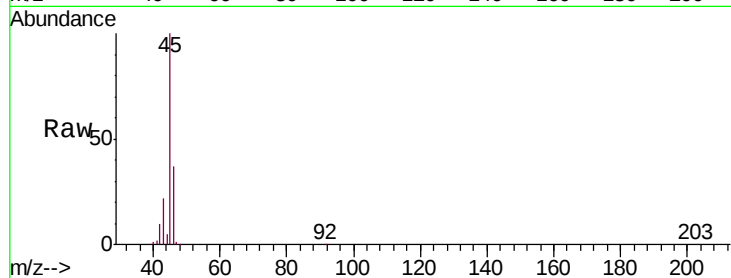
SS-1

Tgt Ion: 45 Resp: 363099

Ion Ratio Lower Upper

45 100

46 37.8 15.4 61.8



#15

Acetone

Concen: 24.713 ppbv

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032706.D

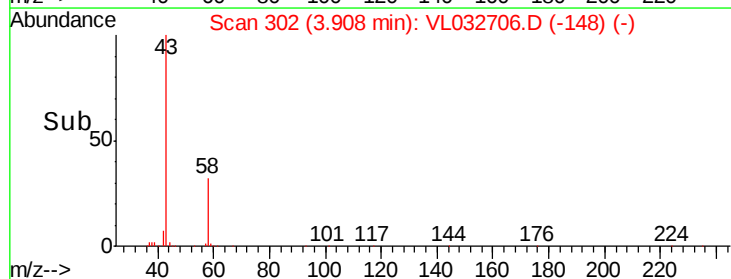
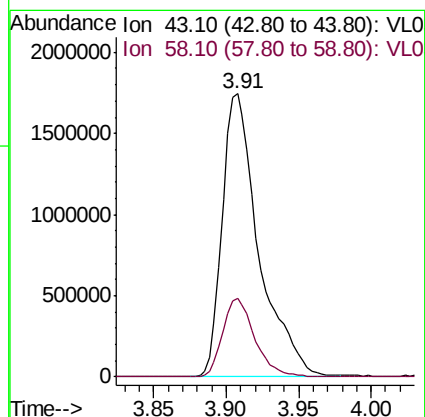
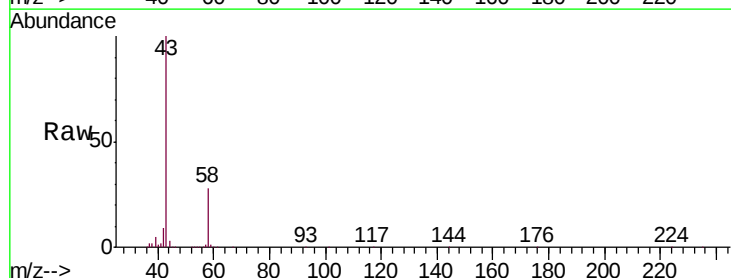
Acq: 30 Oct 2018 20:02

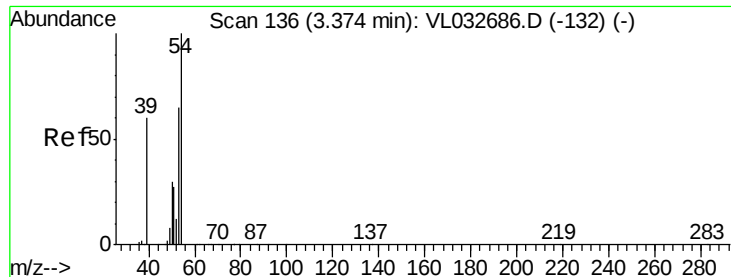
Tgt Ion: 43 Resp: 3051660

Ion Ratio Lower Upper

43 100

58 24.5 22.1 33.1

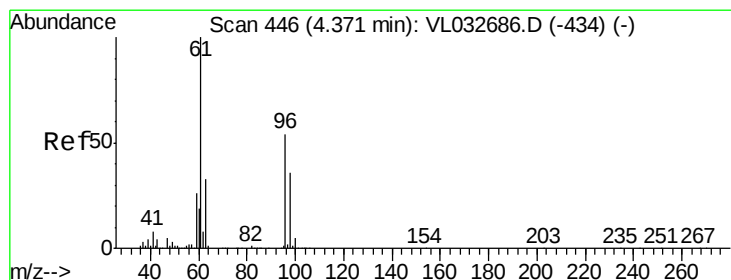
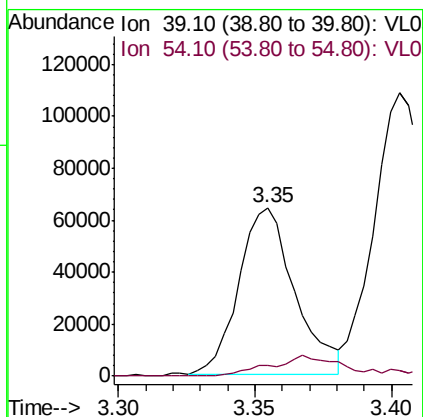
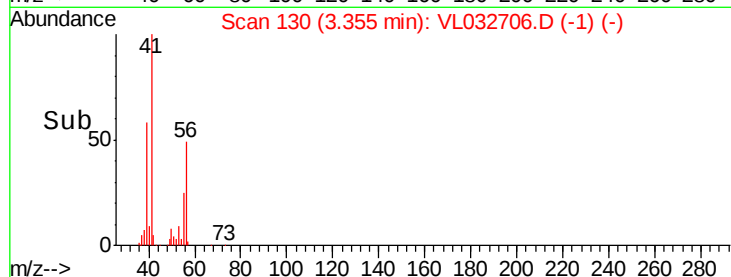
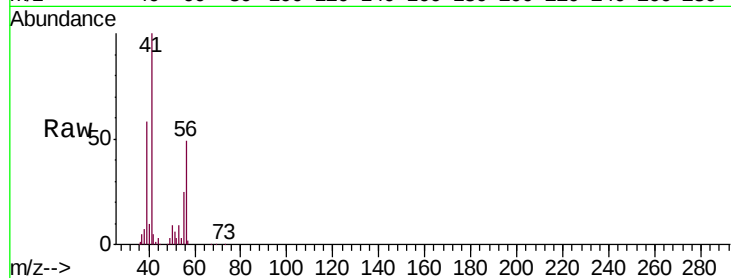




#16
1,3-Butadiene
Concen: 2.002 ppbv
RT: 3.35 min Scan# 130
Delta R.T. -0.02 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

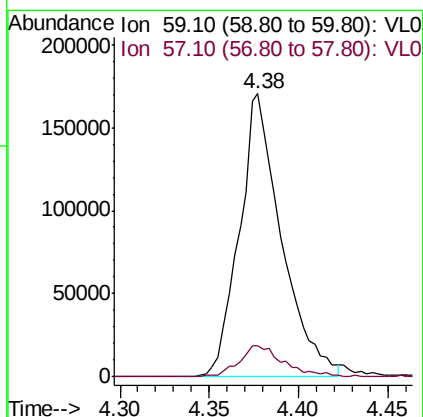
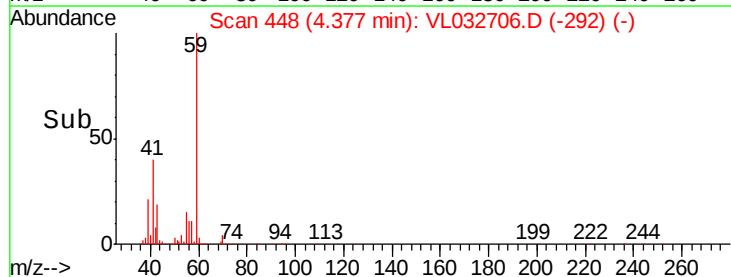
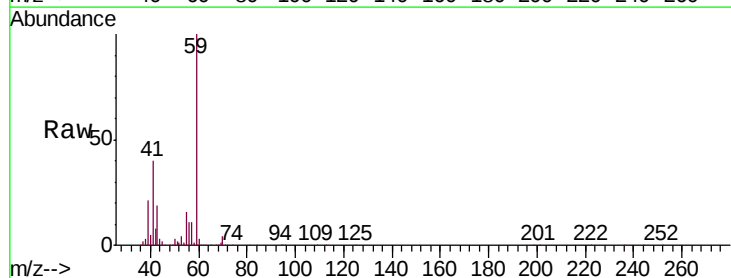
Instrument :
MSVOA_L
ClientSampleId :
SS-1

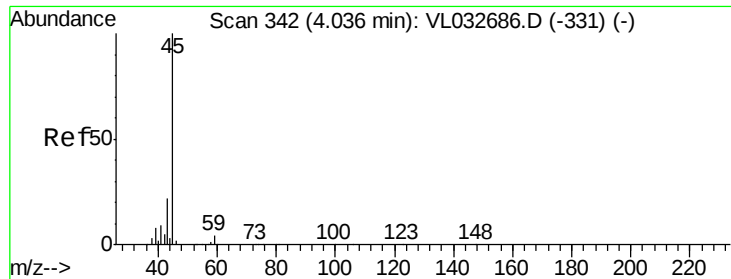
Tgt Ion: 39 Resp: 90931
Ion Ratio Lower Upper
39 100
54 17.9 90.4 135.6#



#17
tert-Butyl alcohol
Concen: 7.732 ppbv
RT: 4.38 min Scan# 448
Delta R.T. 0.00 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

Tgt Ion: 59 Resp: 280805
Ion Ratio Lower Upper
59 100
57 12.0 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 0.574 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.01 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

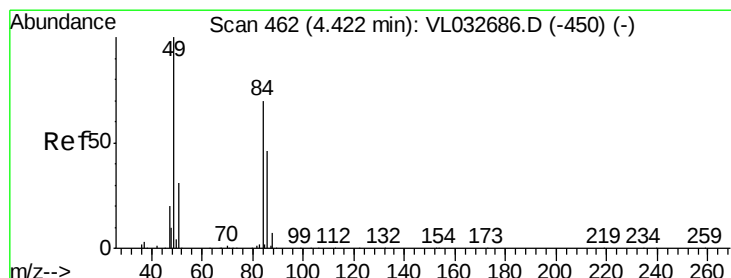
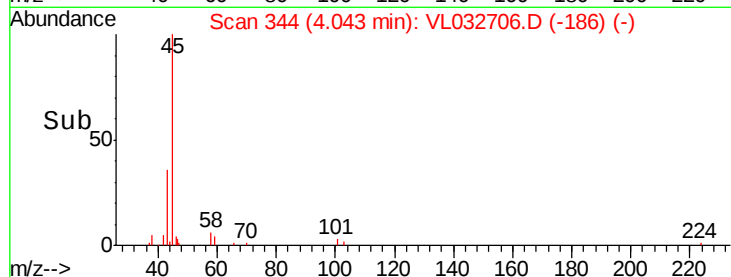
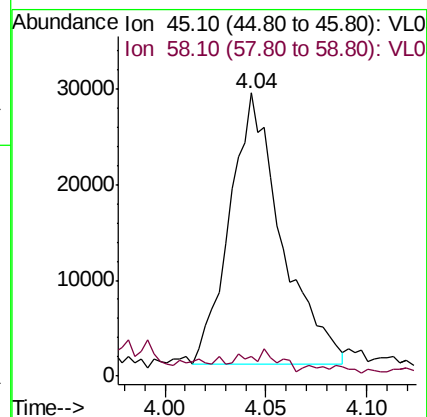
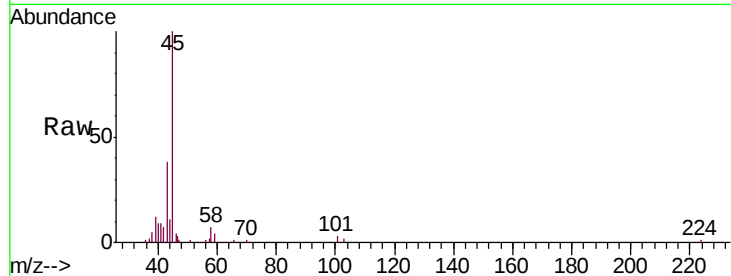
SS-1

Tgt Ion: 45 Resp: 50504

Ion Ratio Lower Upper

45 100

58 1483.4 2.0 3.0#



#20

Methylene Chloride

Concen: 1.136 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Tgt Ion: 84 Resp: 71175

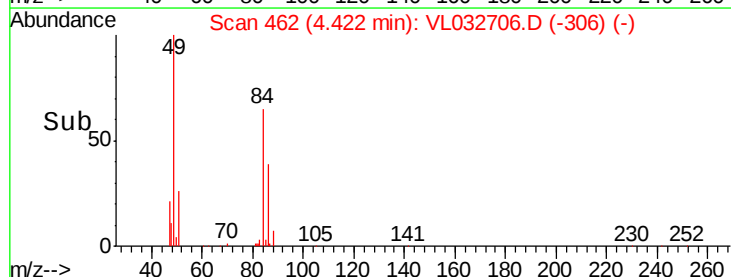
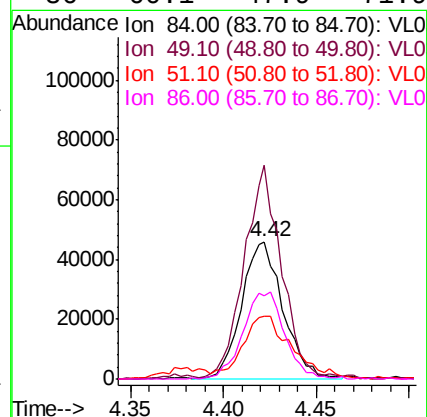
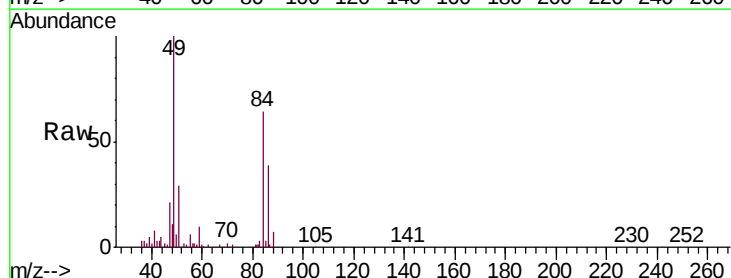
Ion Ratio Lower Upper

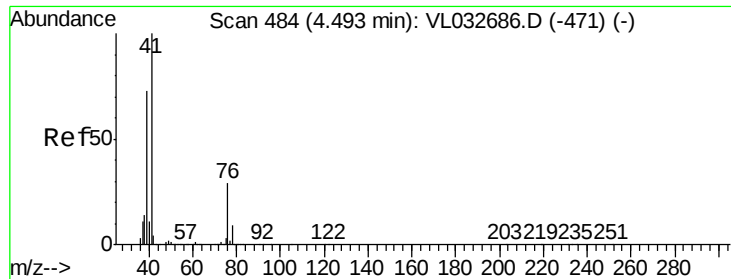
84 100

49 154.4 113.5 170.3

51 43.9 34.8 52.2

86 60.1 47.9 71.9

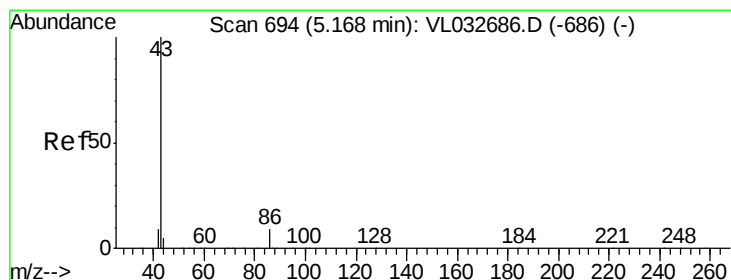
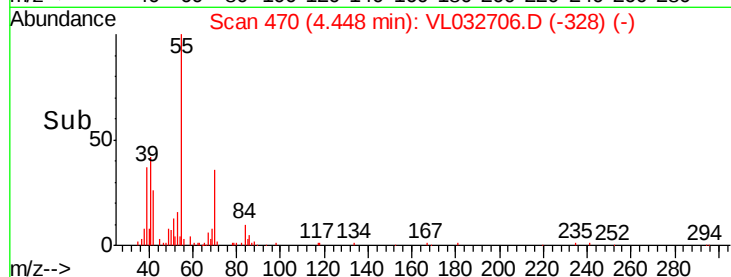
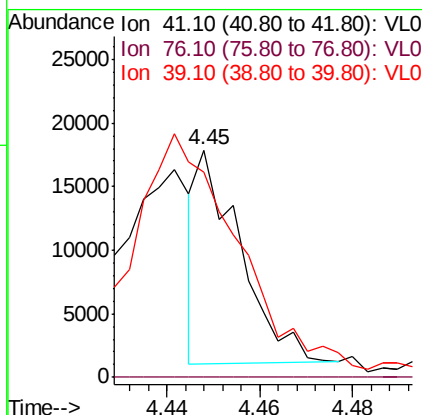
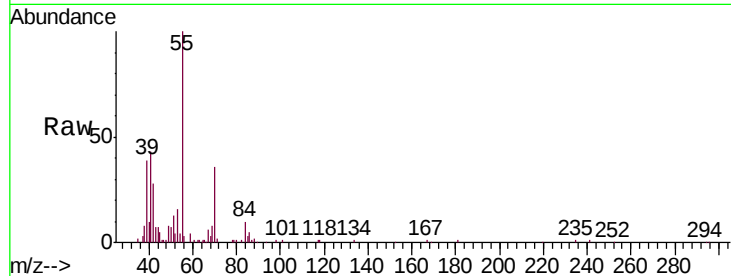




#21
 Allyl Chloride
 Concen: 0.106 ppbv
 RT: 4.45 min Scan# 470
 Delta R.T. -0.04 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

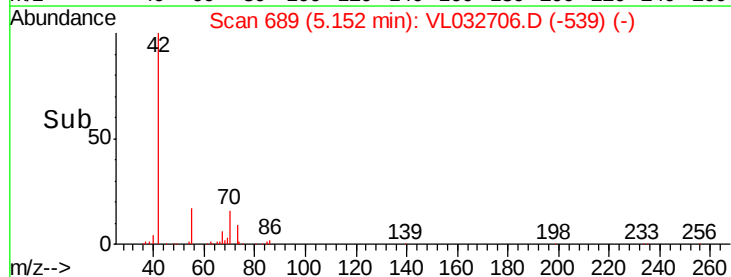
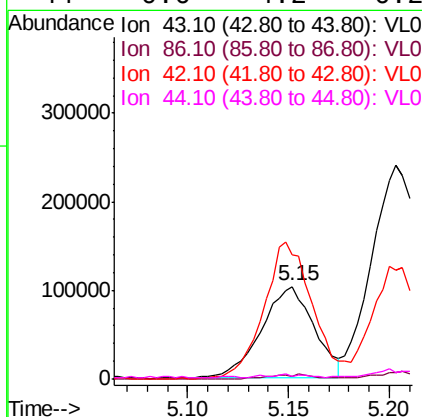
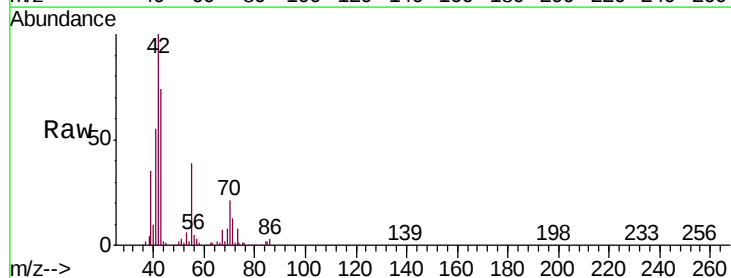
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

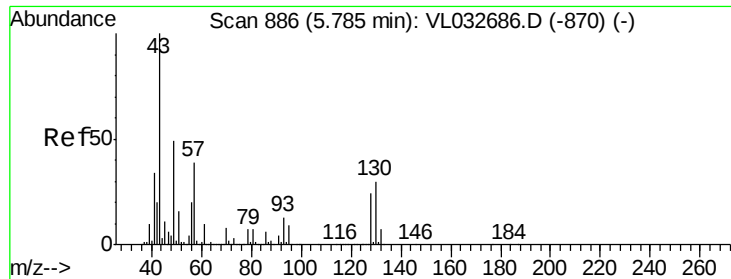
Tgt Ion: 41 Resp: 10723
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.3 36.5#
 39 0.0 60.3 90.5#



#23
 Vinyl Acetate
 Concen: 0.863 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.02 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

Tgt Ion: 43 Resp: 188914
 Ion Ratio Lower Upper
 43 100
 86 3.5 6.1 9.1#
 42 134.7 7.4 11.2#
 44 0.6 4.2 6.2#

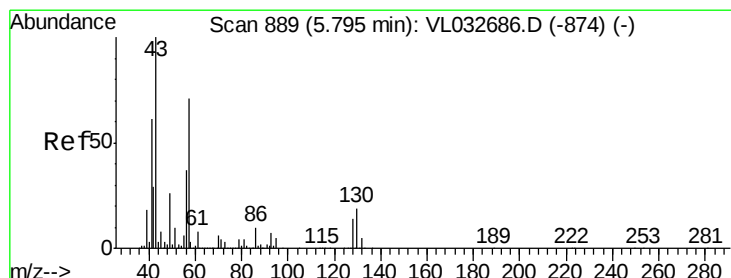
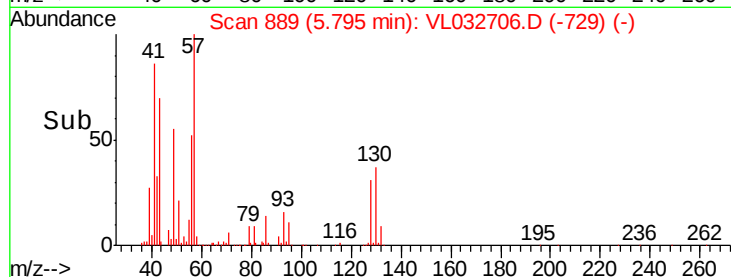
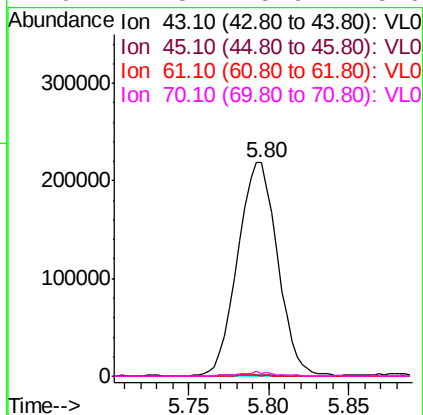
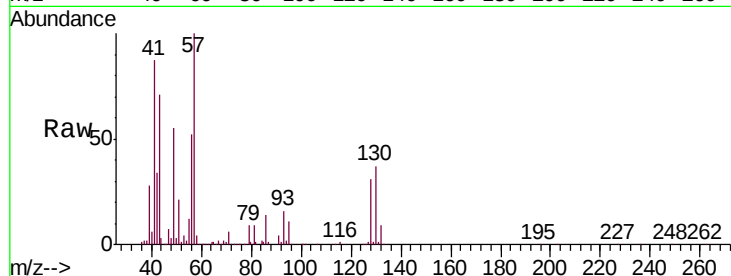




#25
Ethyl Acetate
Concen: 1.309 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.02 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

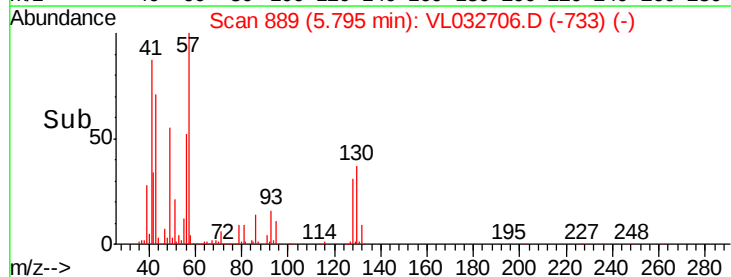
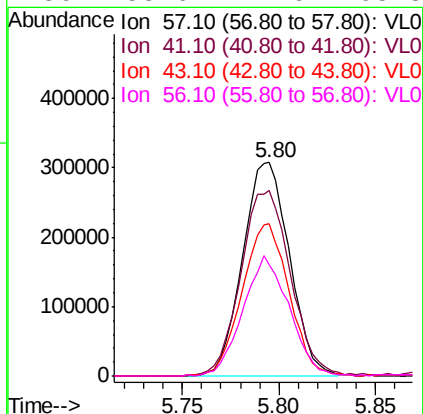
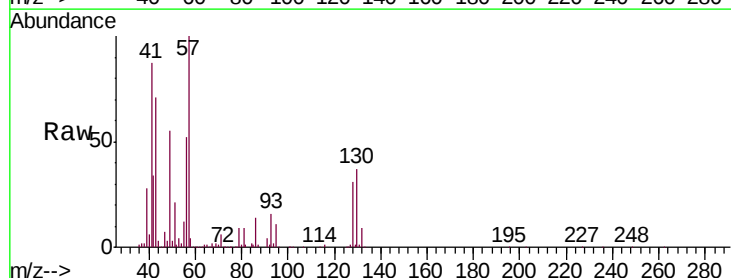
Instrument :
MSVOA_L
ClientSampleId :
SS-1

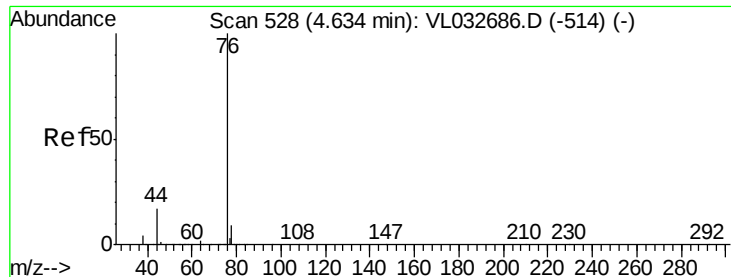
Tgt Ion:	43	Resp:	372128
Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.0	12.0#
61	0.6	8.0	12.0#
70	1.8	5.9	8.9#



#26
Hexane
Concen: 3.858 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

Tgt Ion:	57	Resp:	518847
Ion	Ratio	Lower	Upper
57	100		
41	92.9	67.4	101.0
43	71.6	171.9	257.9#
56	55.6	42.6	63.8





#27

Carbon Disulfide

Concen: 5.567 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

SS-1

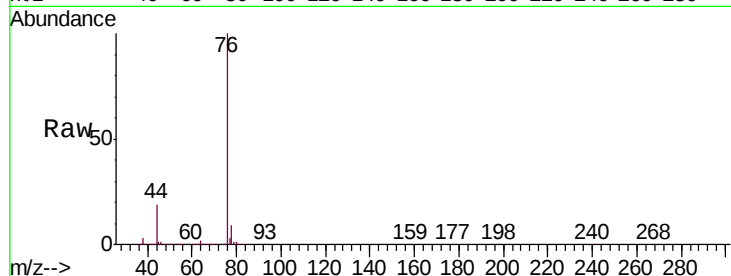
Tgt Ion: 76 Resp: 908250

Ion Ratio Lower Upper

76 100

44 19.7 13.7 20.5

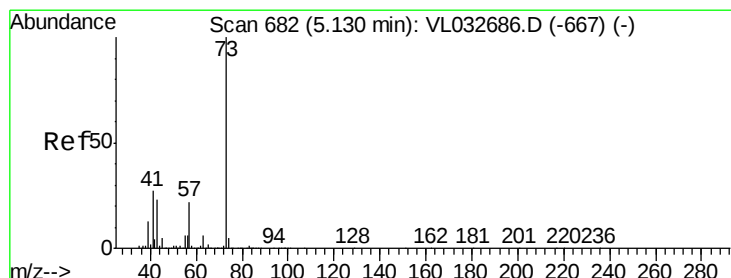
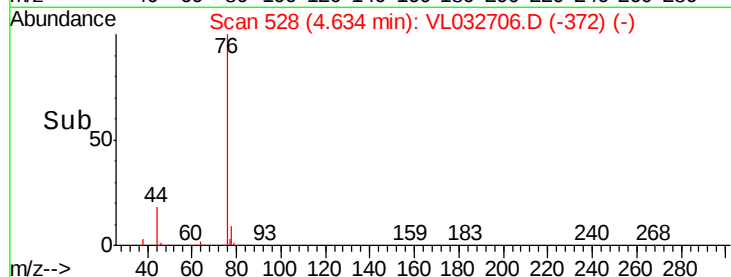
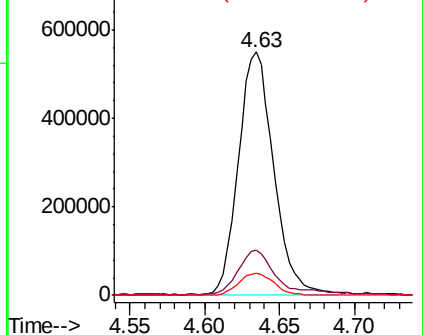
78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.379 ppbv

RT: 5.13 min Scan# 683

Delta R.T. 0.01 min

Lab File: VL032706.D

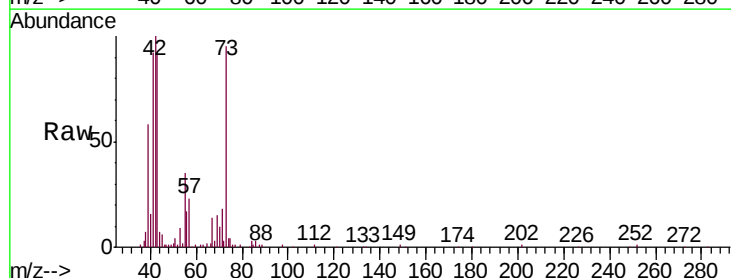
Acq: 30 Oct 2018 20:02

Tgt Ion: 73 Resp: 73247

Ion Ratio Lower Upper

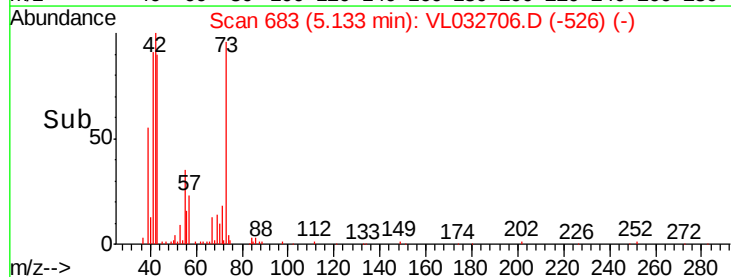
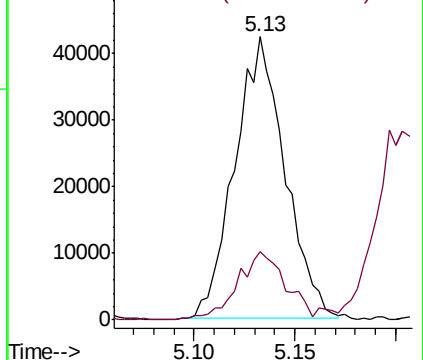
73 100

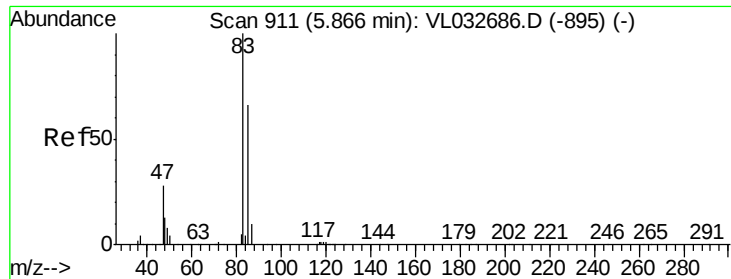
57 24.2 18.0 27.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

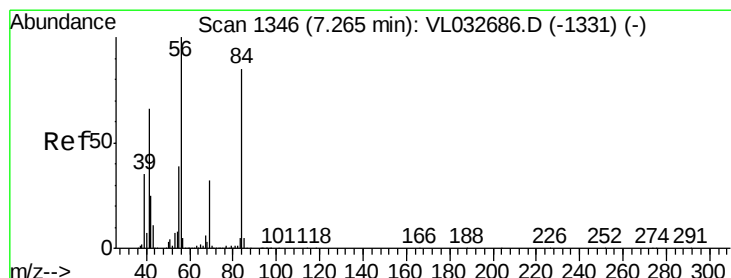
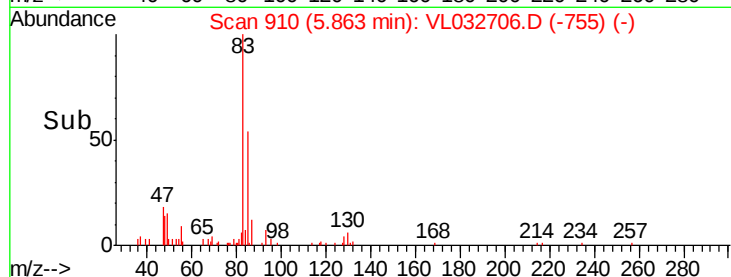
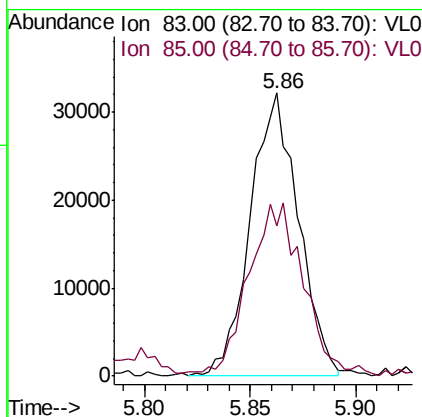
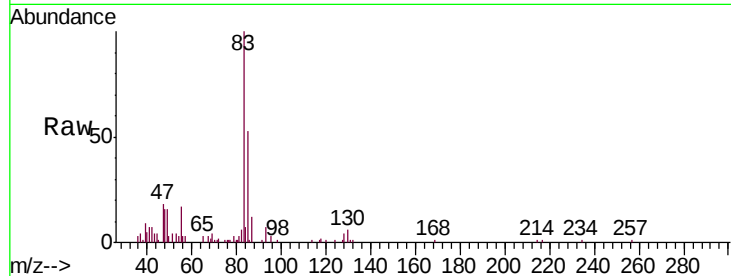




#29
Chloroform
Concen: 0.238 ppbv
RT: 5.86 min Scan# 910
Delta R.T. -0.00 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

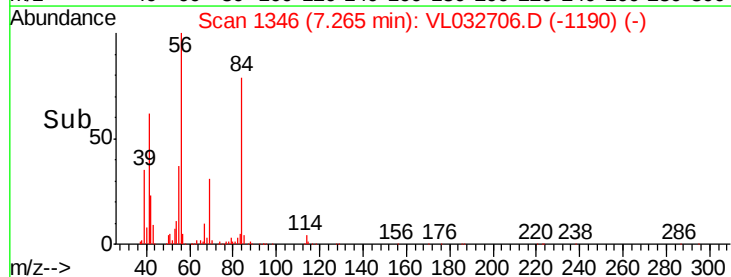
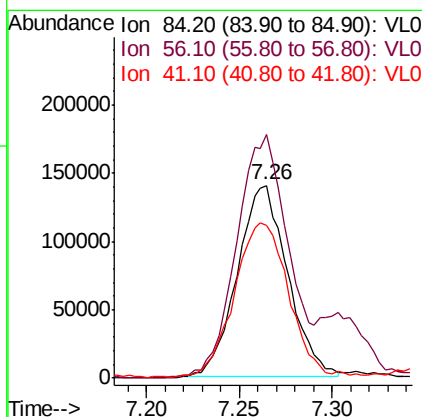
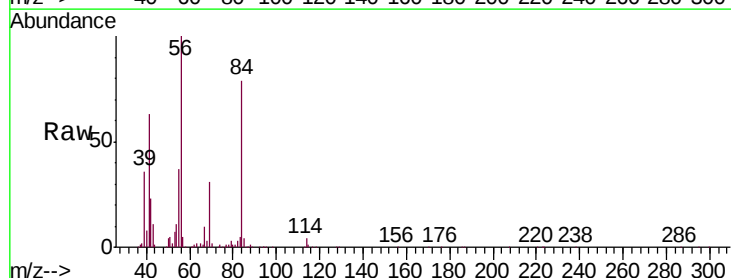
Instrument :
MSVOA_L
ClientSampleId :
SS-1

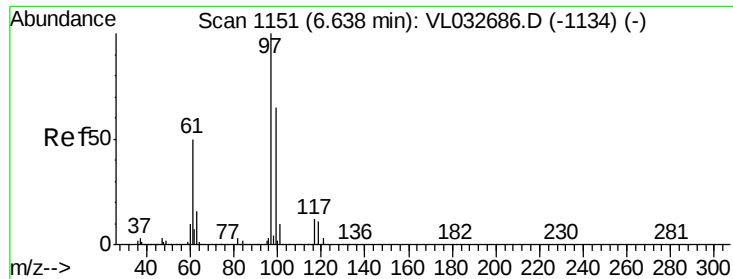
Tgt Ion: 83 Resp: 51189
Ion Ratio Lower Upper
83 100
85 51.8 53.0 79.6#



#30
Cyclohexane
Concen: 2.493 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

Tgt Ion: 84 Resp: 265422
Ion Ratio Lower Upper
84 100
56 161.3 108.3 162.5
41 87.1 64.8 97.2





#32

1,1,1-Trichloroethane

Concen: 0.279 ppbv

RT: 6.63 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

SS-1

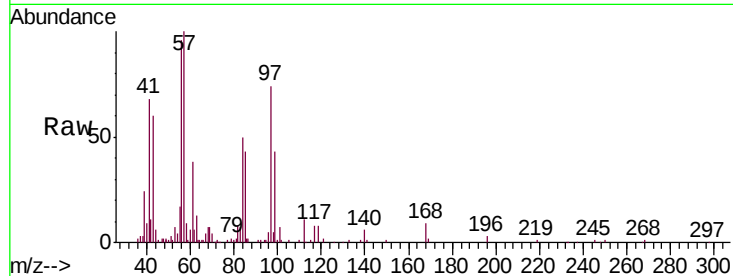
Tgt Ion: 97 Resp: 60849

Ion Ratio Lower Upper

97 100

99 65.7 52.0 78.0

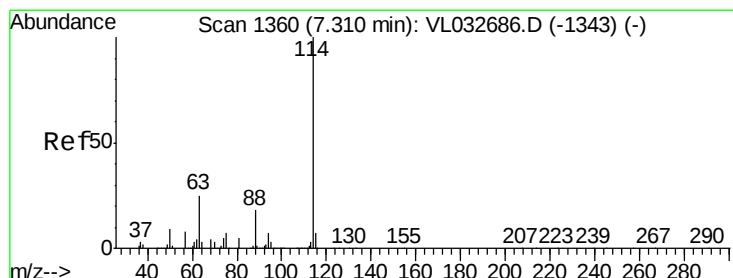
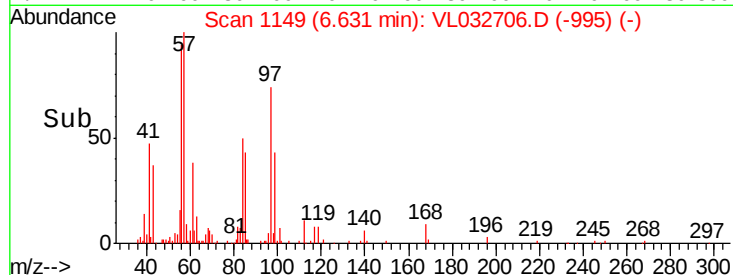
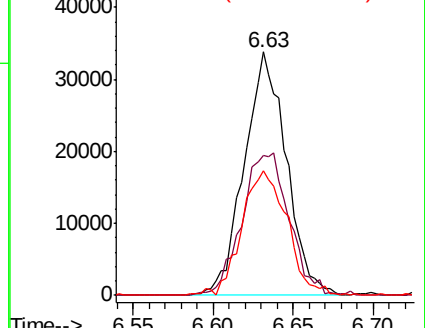
61 55.2 40.7 61.1



Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

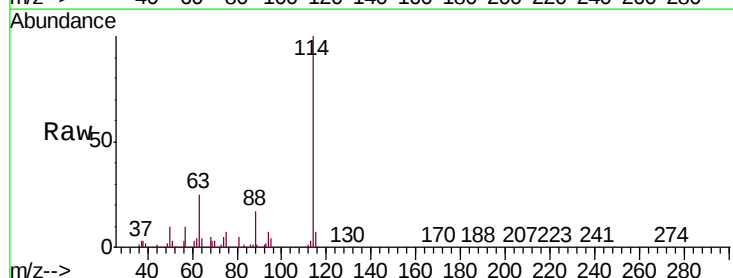
Tgt Ion: 114 Resp: 3448574

Ion Ratio Lower Upper

114 100

63 25.1 21.7 32.5

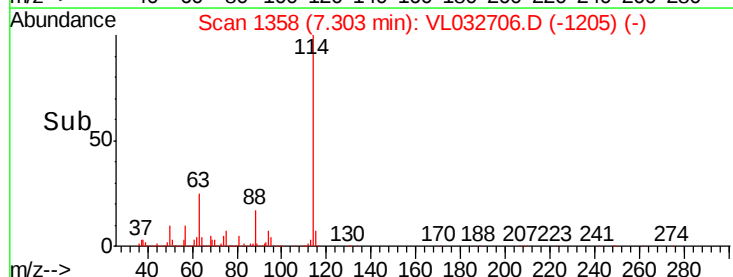
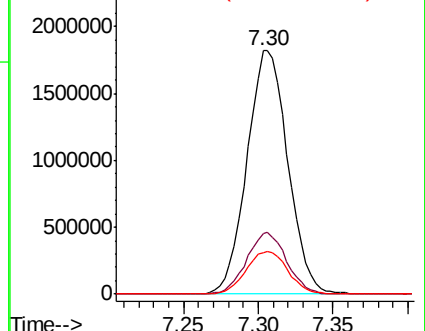
88 18.1 14.9 22.3

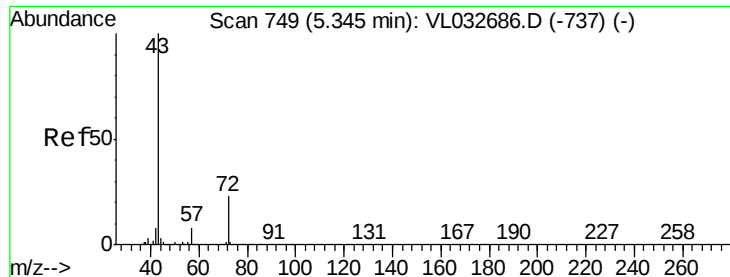


Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

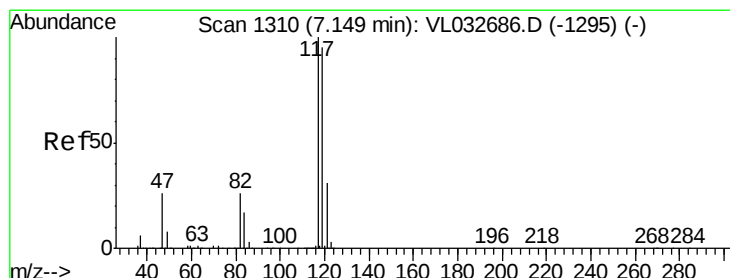
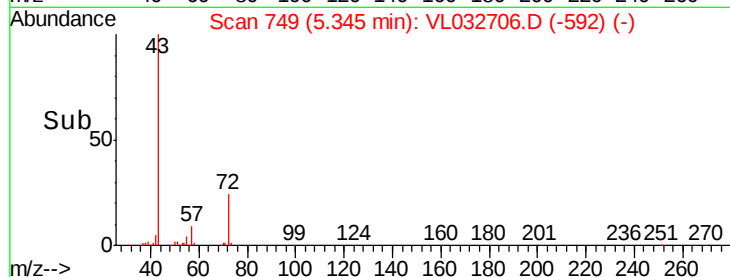
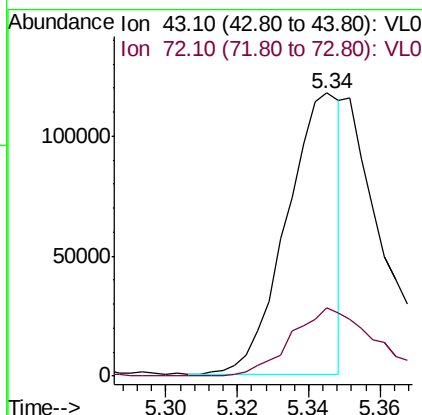
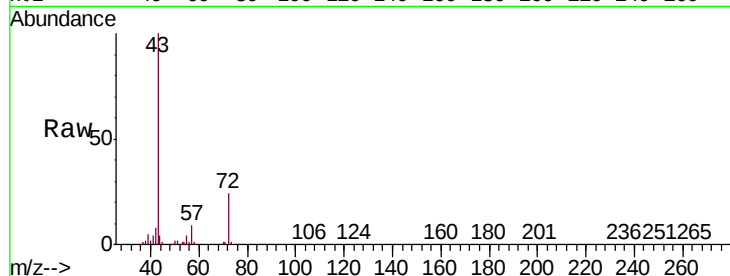




#34
 2-Butanone
 Concen: 0.662 ppbv
 RT: 5.34 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

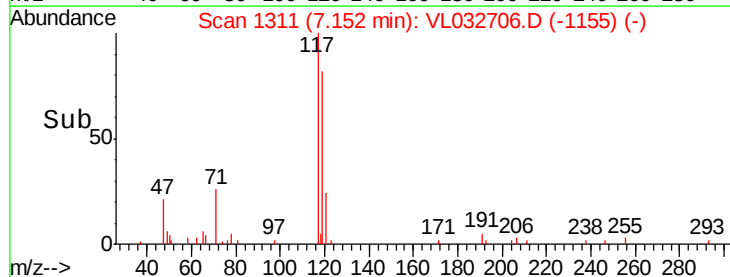
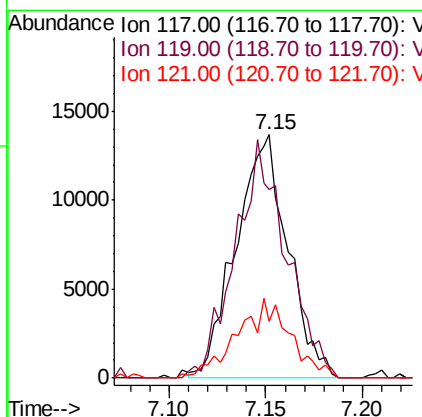
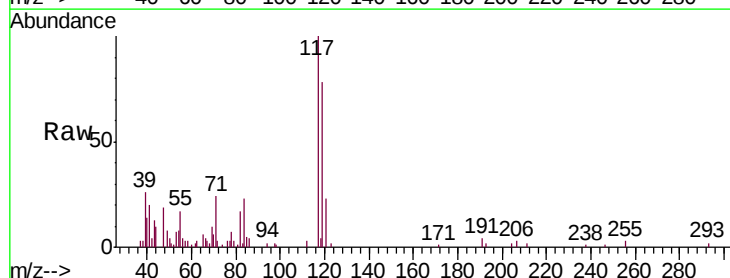
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

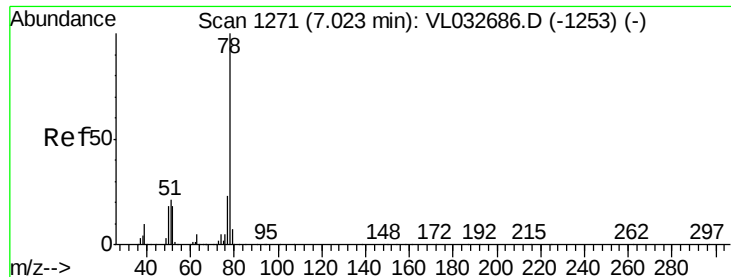
Tgt Ion: 43 Resp: 122463
 Ion Ratio Lower Upper
 43 100
 72 38.2 18.6 27.8#



#35
 Carbon Tetrachloride
 Concen: 0.105 ppbv
 RT: 7.15 min Scan# 1311
 Delta R.T. 0.00 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

Tgt Ion: 117 Resp: 25625
 Ion Ratio Lower Upper
 117 100
 119 77.5 75.7 113.5
 121 23.2 24.7 37.1#





#36

Benzene

Concen: 4.727 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

SS-1

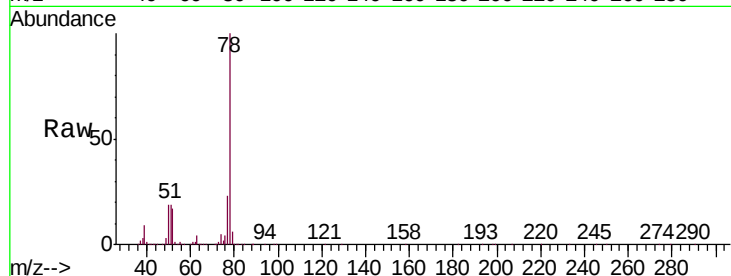
Tgt Ion: 78 Resp: 1323763

Ion Ratio Lower Upper

78 100

77 23.3 18.1 27.1

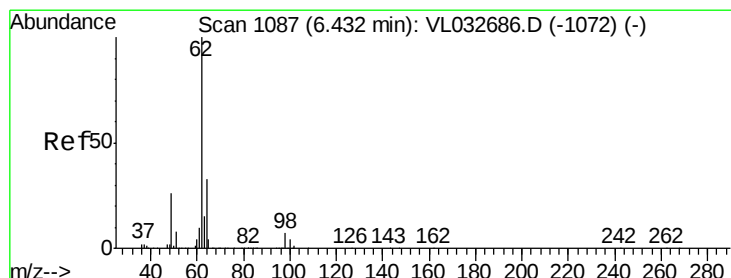
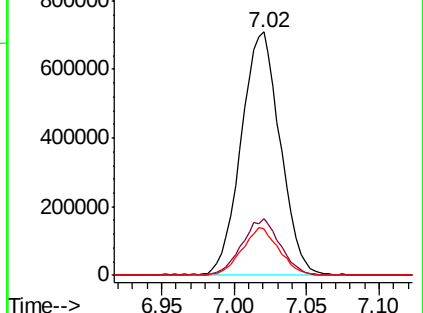
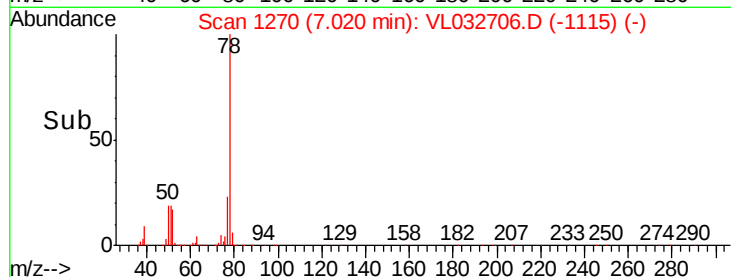
50 18.9 15.1 22.7



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.036 ppbv

RT: 6.43 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VL032706.D

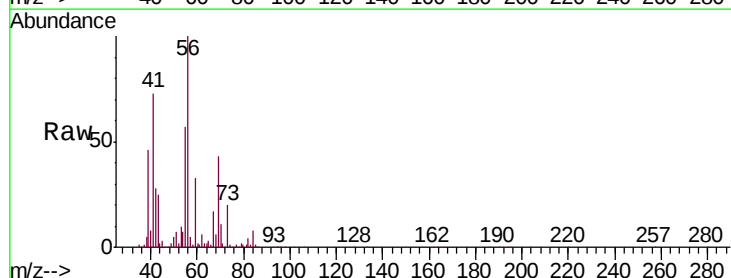
Acq: 30 Oct 2018 20:02

Tgt Ion: 62 Resp: 6165

Ion Ratio Lower Upper

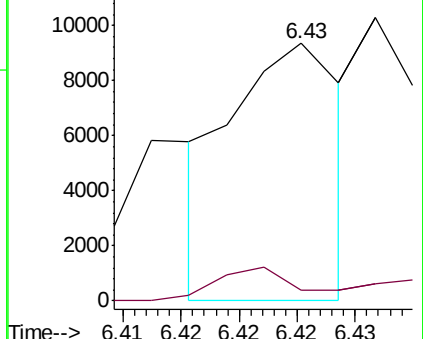
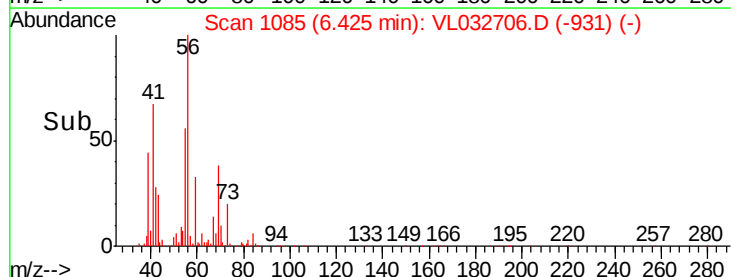
62 100

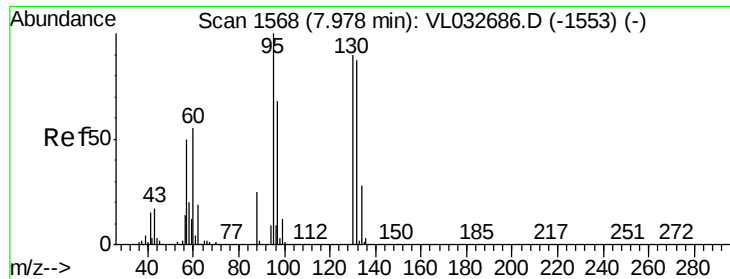
98 26.1 4.4 6.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.756 ppbv

RT: 7.98 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 130 Resp: 78342

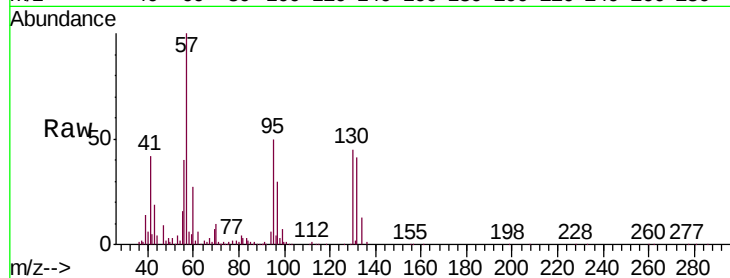
Ion Ratio Lower Upper

130 100

95 110.2 93.4 140.0

132 92.2 76.5 114.7

97 65.6 60.2 90.2

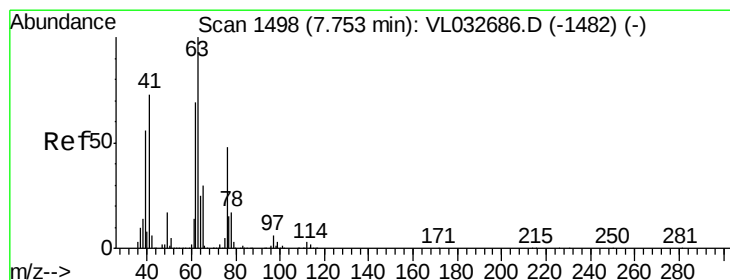
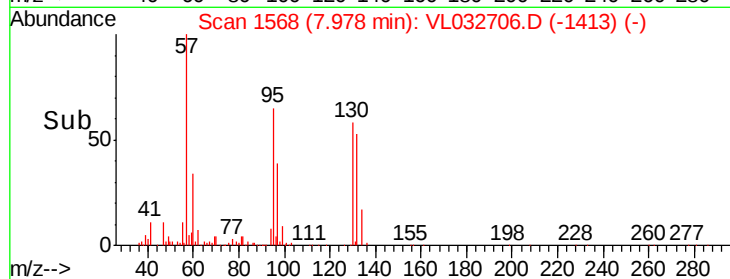
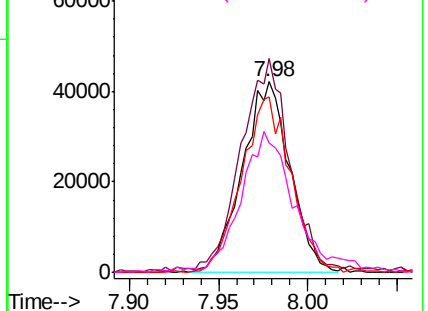


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.815 ppbv

RT: 7.31 min Scan# 1359

Delta R.T. -0.45 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

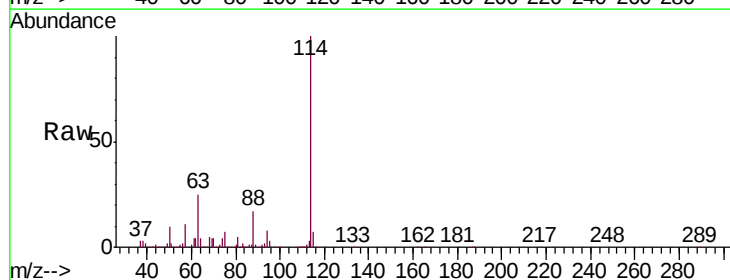
Tgt Ion: 63 Resp: 845082

Ion Ratio Lower Upper

63 100

41 0.0 56.2 84.4#

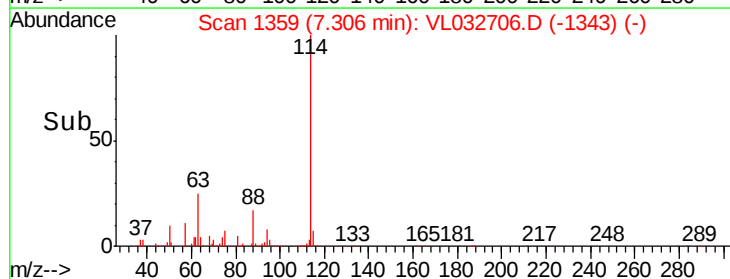
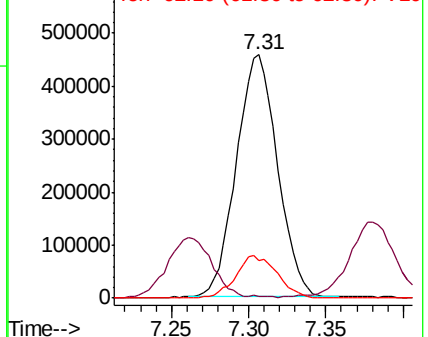
62 15.5 54.4 81.6#

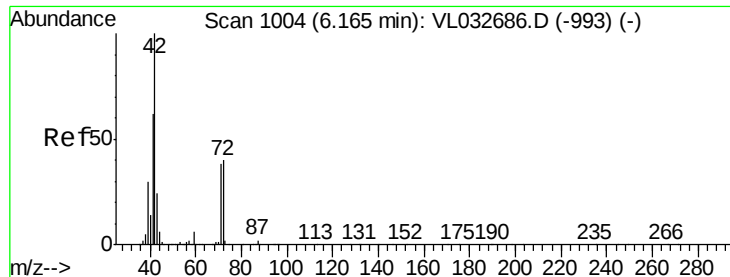


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.032 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.02 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

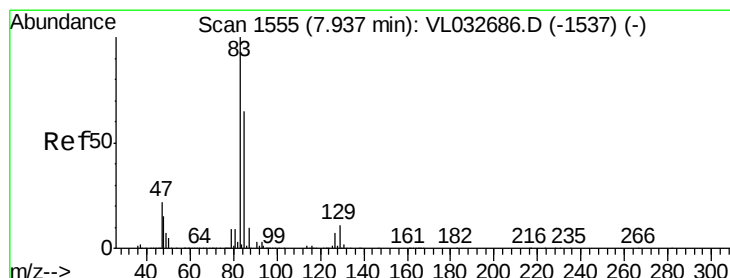
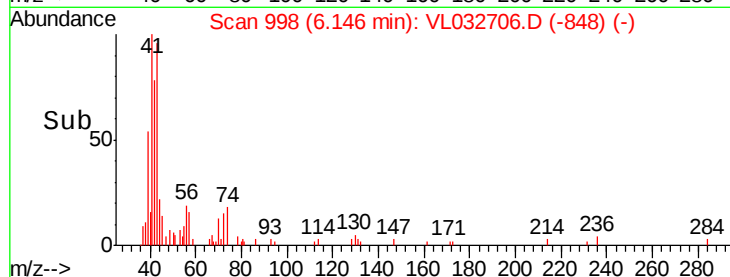
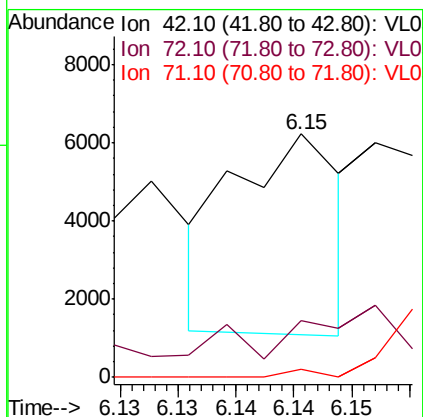
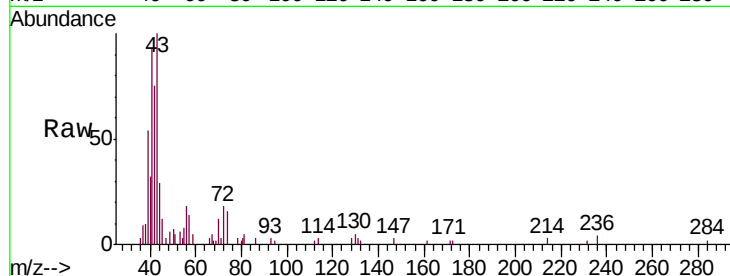
Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion:	42	Resp:	3298
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.4	48.6#
71	0.0	31.3	46.9#



#42

Bromodichloromethane

Concen: 0.101 ppbv

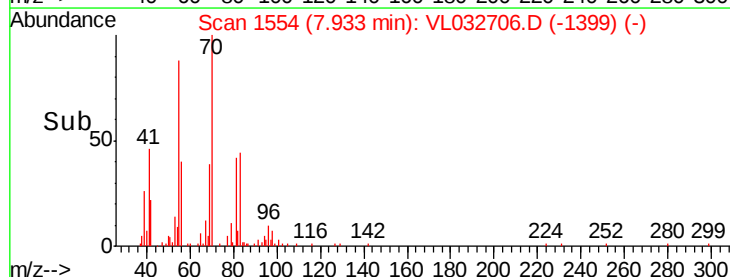
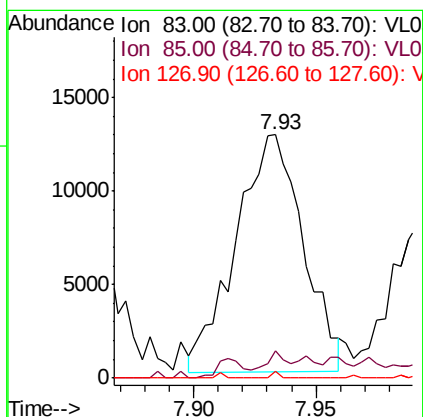
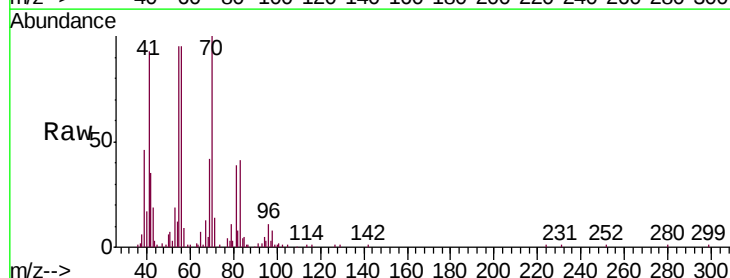
RT: 7.93 min Scan# 1554

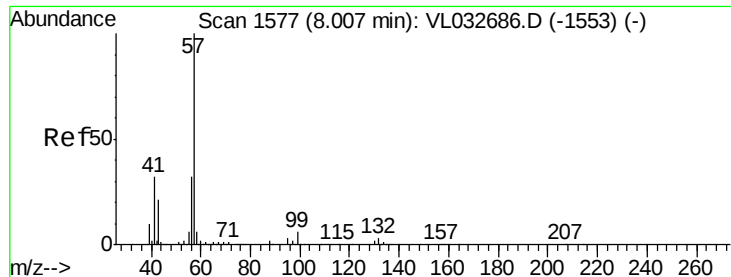
Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Tgt Ion:	83	Resp:	24241
Ion	Ratio	Lower	Upper
83	100		
85	12.4	52.4	78.6#
127	3.1	6.1	9.1#





#44

2,2,4-Trimethylpentane

Concen: 2.795 ppbv

RT: 8.00 min Scan# 1576

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

SS-1

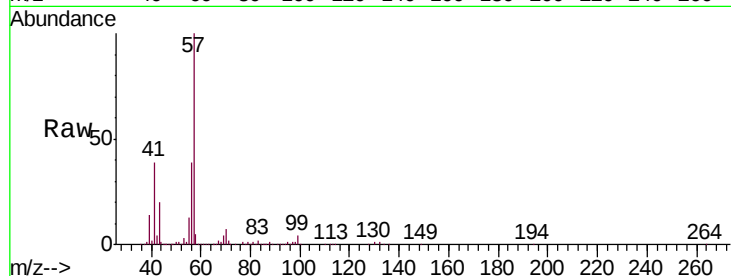
Tgt Ion: 57 Resp: 1336281

Ion Ratio Lower Upper

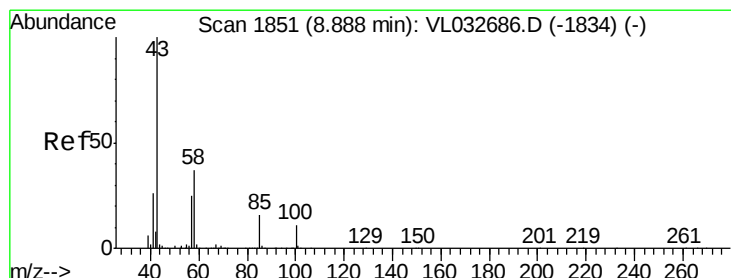
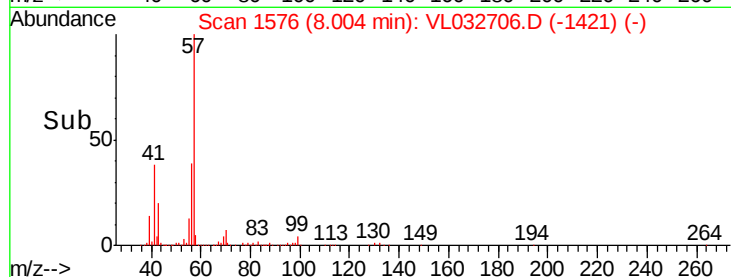
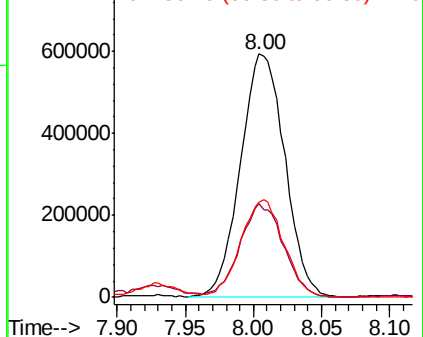
57 100

41 38.4 24.7 37.1#

56 39.4 25.0 37.4#



Abundance Ion 57.10 (56.80 to 57.80): VL0
800000
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.030 ppbv

RT: 8.90 min Scan# 1855

Delta R.T. 0.02 min

Lab File: VL032706.D

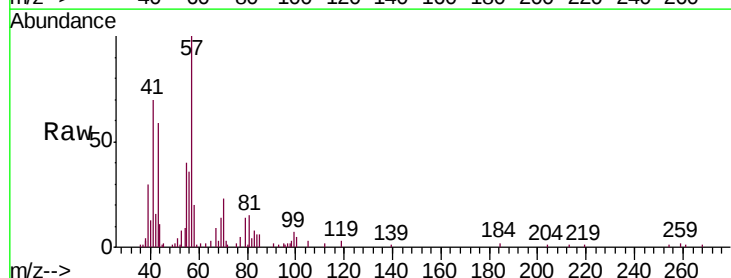
Acq: 30 Oct 2018 20:02

Tgt Ion: 43 Resp: 8348

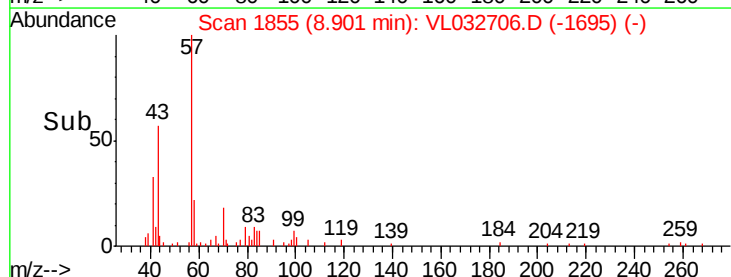
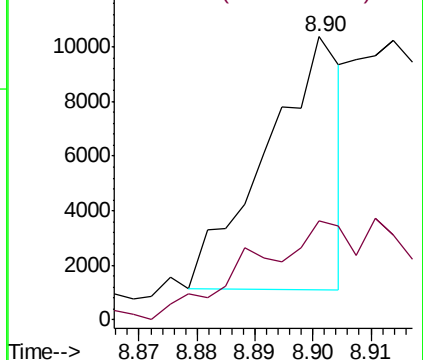
Ion Ratio Lower Upper

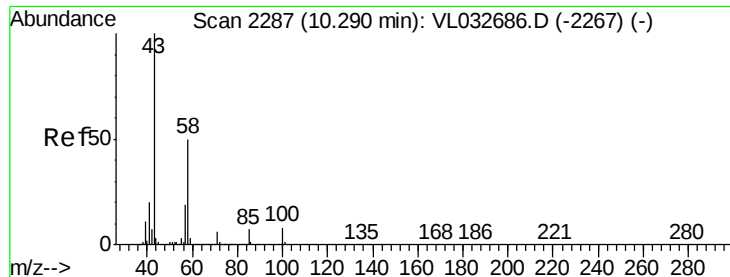
43 100

58 0.0 29.7 44.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
12000
Ion 58.10 (57.80 to 58.80): VL0

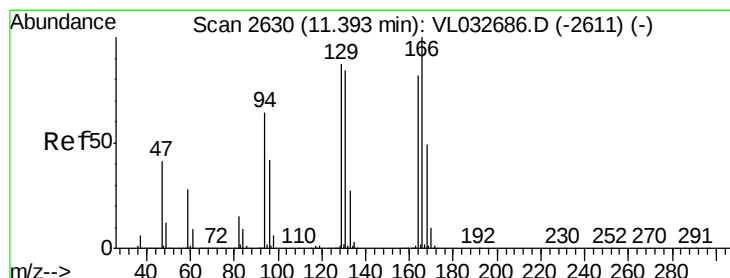
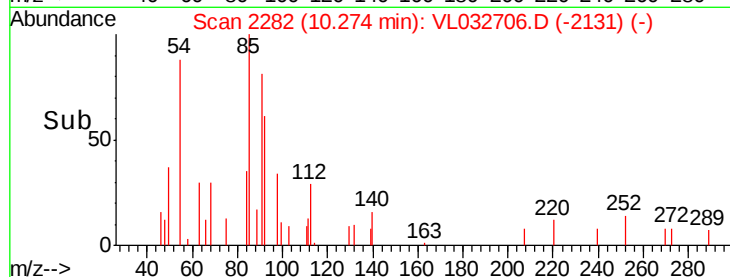
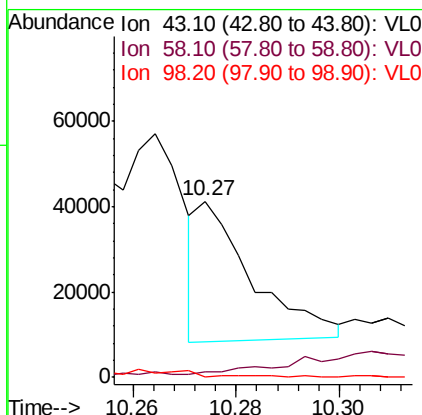
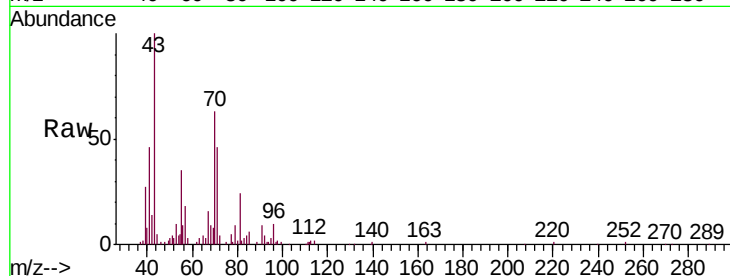




#51
2-Hexanone
Concen: 0.118 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. -0.01 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

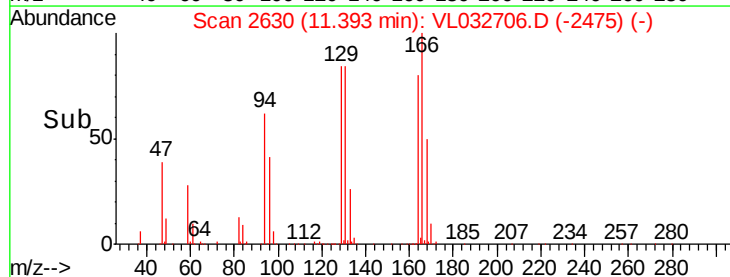
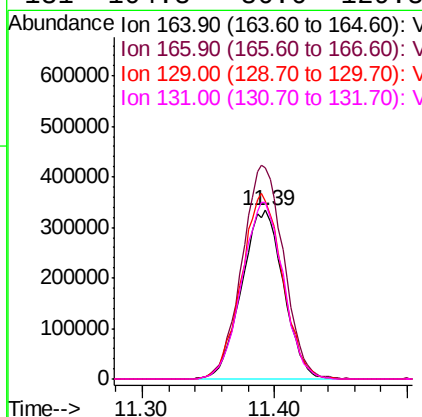
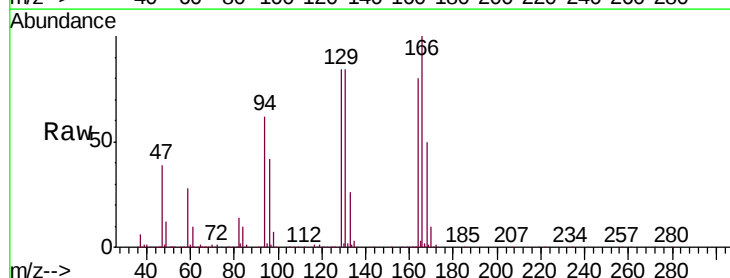
Instrument :
MSVOA_L
ClientSampled :
SS-1

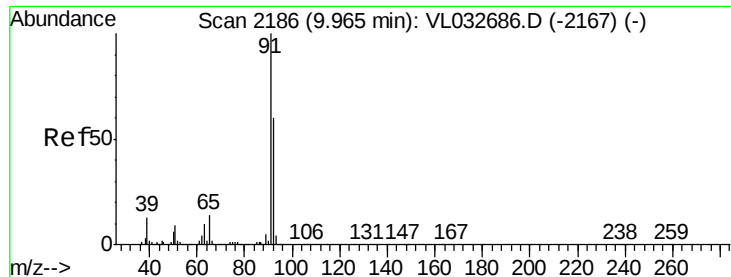
Tgt Ion: 43 Resp: 24087
Ion Ratio Lower Upper
43 100
58 64.9 40.4 60.6#
98 0.0 0.4 0.6#



#52
Tetrachloroethene
Concen: 7.467 ppbv
RT: 11.39 min Scan# 2630
Delta R.T. -0.00 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

Tgt Ion: 164 Resp: 729044
Ion Ratio Lower Upper
164 100
166 125.1 100.5 150.7
129 105.8 90.0 135.0
131 104.8 86.6 129.8





#53

Toluene

Concen: 22.921 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

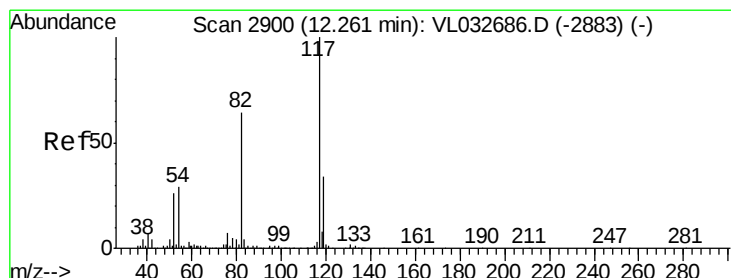
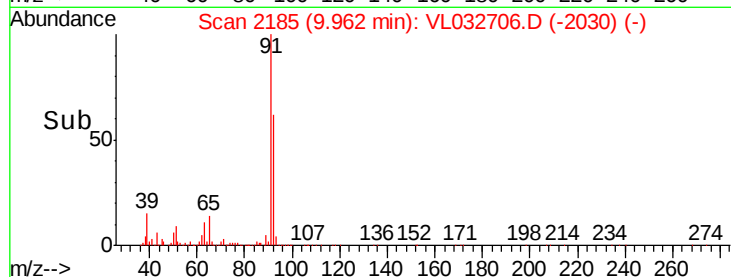
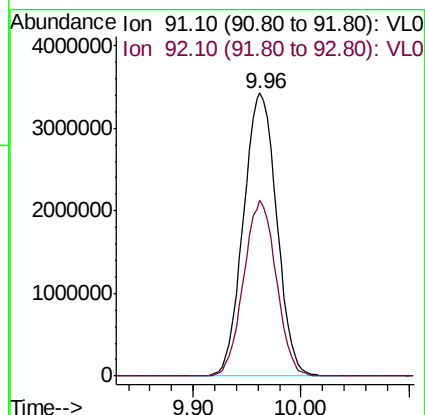
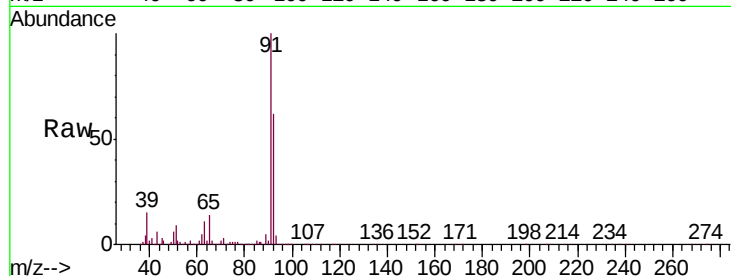
SS-1

Tgt Ion: 91 Resp: 7357748

Ion Ratio Lower Upper

91 100

92 60.7 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

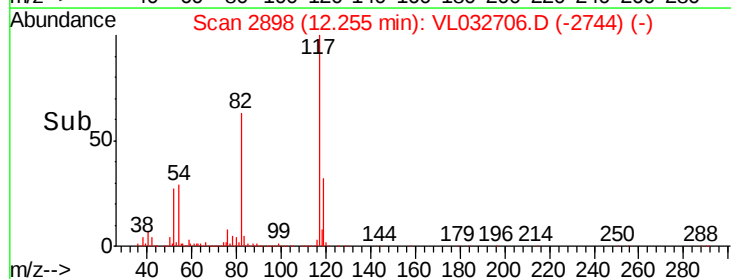
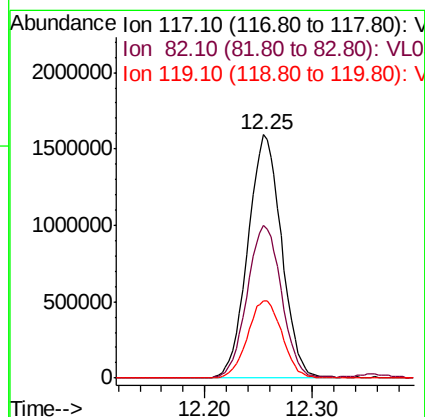
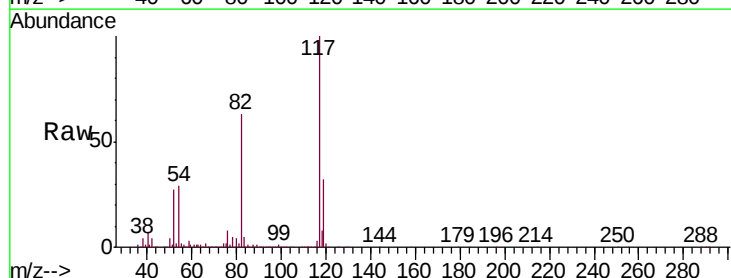
Tgt Ion: 117 Resp: 3452933

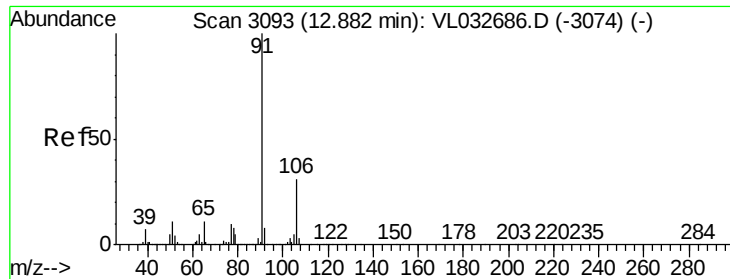
Ion Ratio Lower Upper

117 100

82 64.1 52.7 79.1

119 32.6 26.7 40.1





#58

Ethyl Benzene

Concen: 3.121 ppbv

RT: 12.88 min Scan# 3092

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

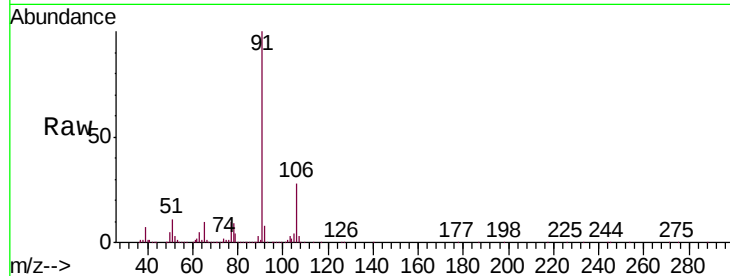
SS-1

Tgt Ion: 91 Resp: 1252099

Ion Ratio Lower Upper

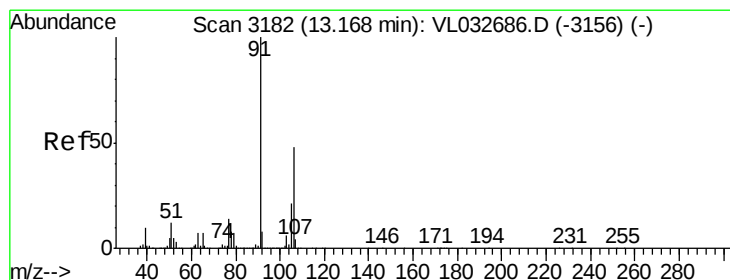
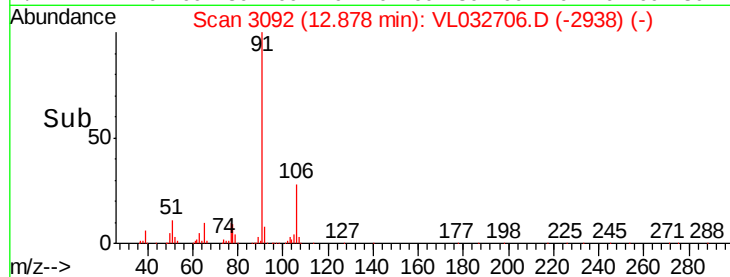
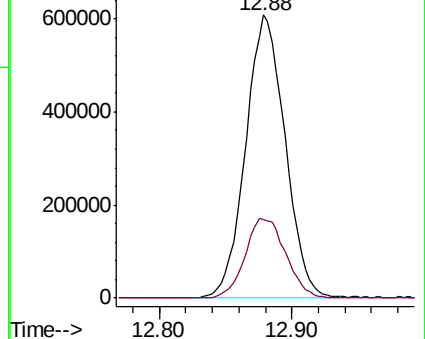
91 100

106 27.9 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 11.438 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. -0.03 min

Lab File: VL032706.D

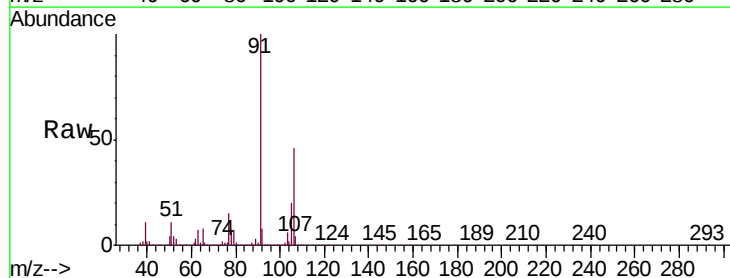
Acq: 30 Oct 2018 20:02

Tgt Ion: 91 Resp: 4085698

Ion Ratio Lower Upper

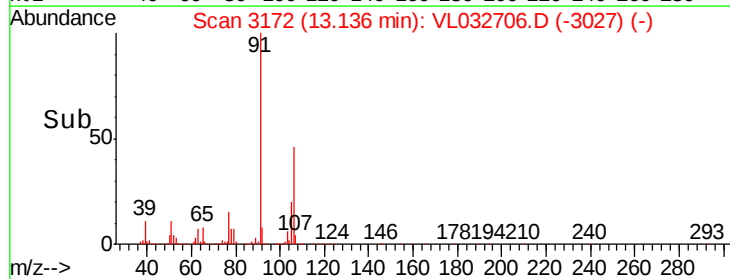
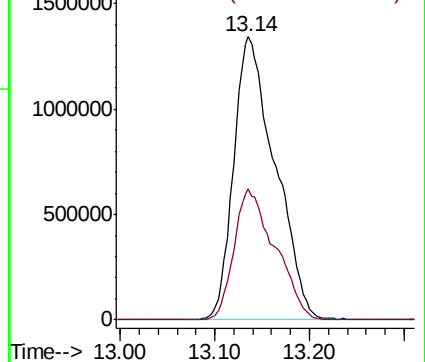
91 100

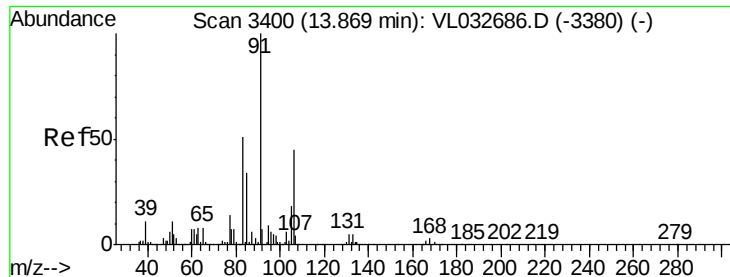
106 46.1 35.9 53.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 4.043 ppbv

RT: 13.86 min Scan# 3398

Delta R.T. -0.01 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

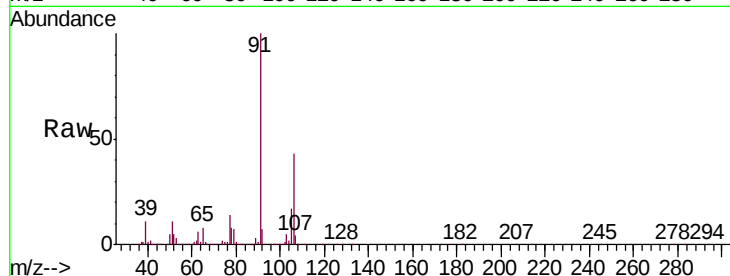
SS-1

Tgt Ion: 91 Resp: 1393121

Ion Ratio Lower Upper

91 100

106 43.1 22.1 66.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.86

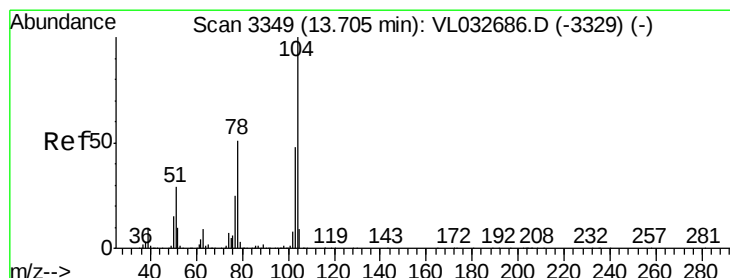
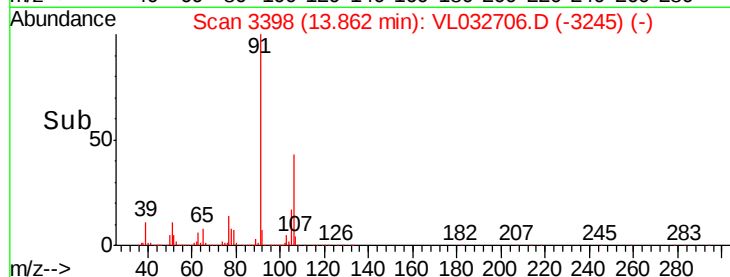
600000

400000

200000

0

Time-->



#61

Styrene

Concen: 0.177 ppbv

RT: 13.70 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

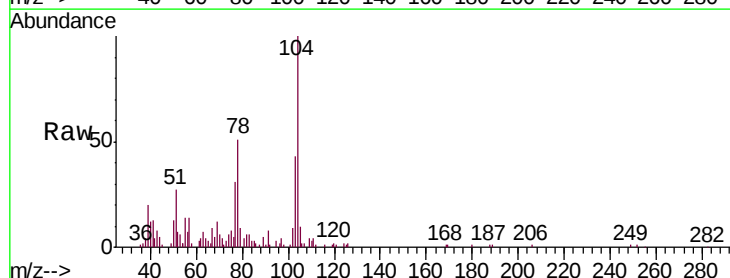
Tgt Ion: 104 Resp: 40988

Ion Ratio Lower Upper

104 100

78 91.7 42.8 64.2#

103 77.2 37.4 56.0#



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

40000

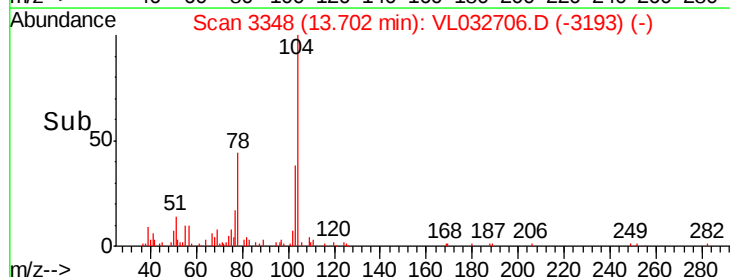
30000

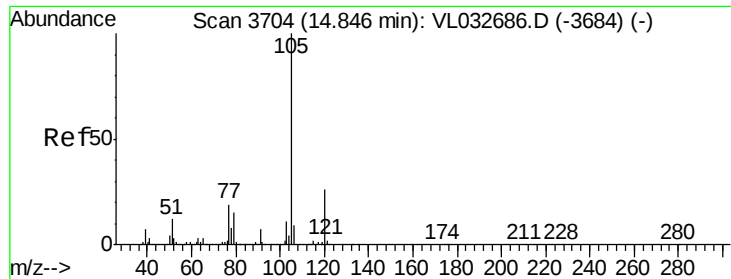
20000

10000

0

Time-->





#62

Isopropylbenzene

Concen: 0.102 ppbv

RT: 14.85 min Scan# 3704

Delta R.T. 0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

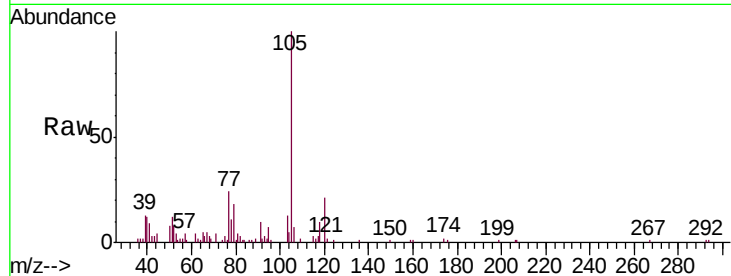
SS-1

Tgt Ion:105 Resp: 49551

Ion Ratio Lower Upper

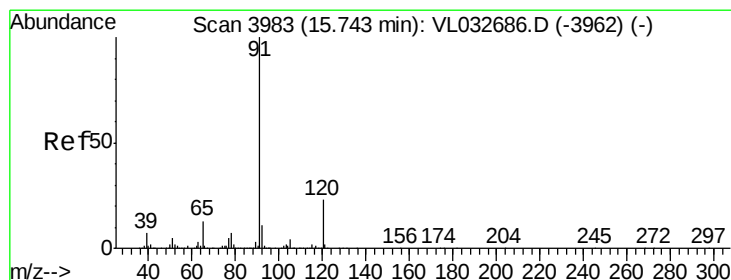
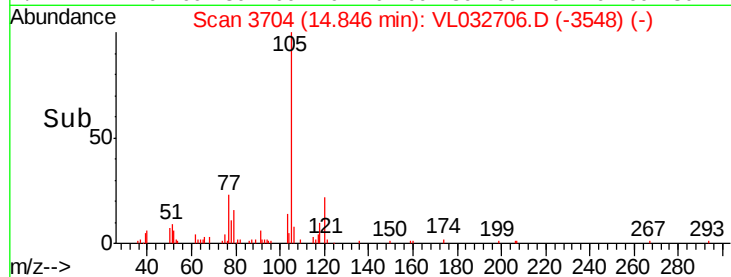
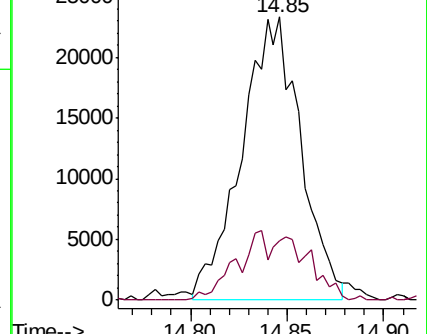
105 100

120 27.4 20.5 30.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.173 ppbv

RT: 15.74 min Scan# 3981

Delta R.T. -0.00 min

Lab File: VL032706.D

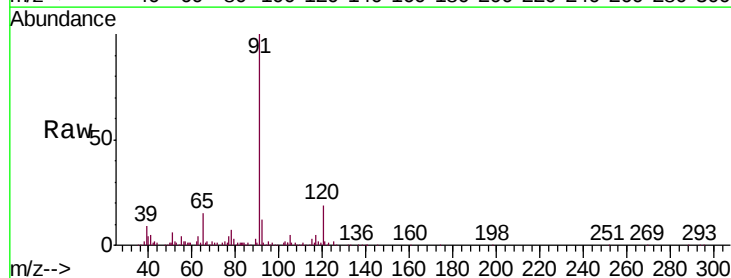
Acq: 30 Oct 2018 20:02

Tgt Ion:120 Resp: 20972

Ion Ratio Lower Upper

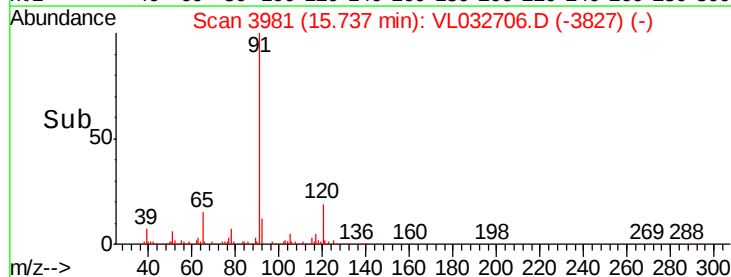
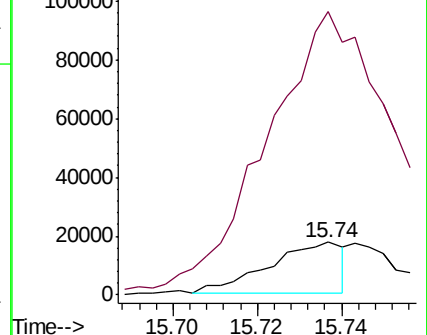
120 100

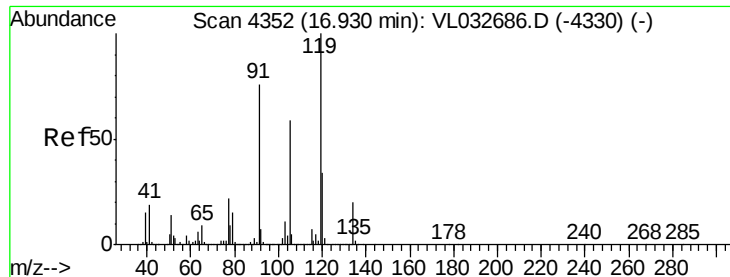
91 1007.8 390.2 585.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

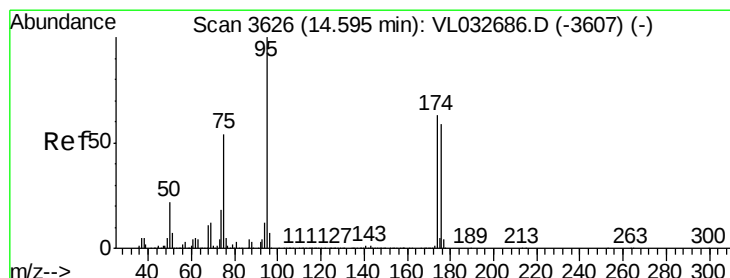
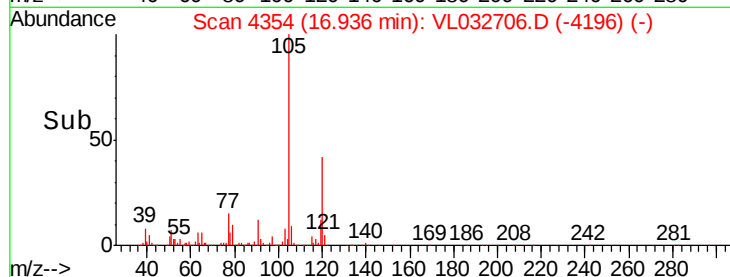
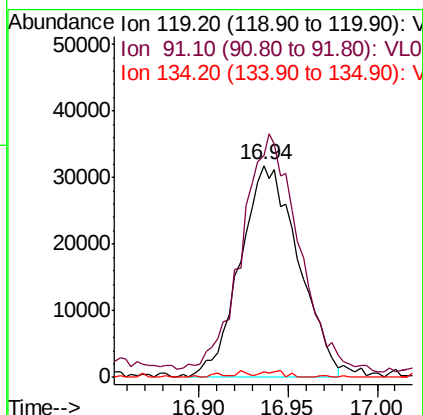
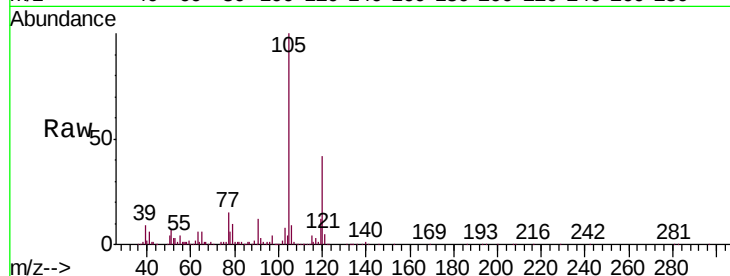




#65
 tert-Butylbenzene
 Concen: 0.174 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. 0.01 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

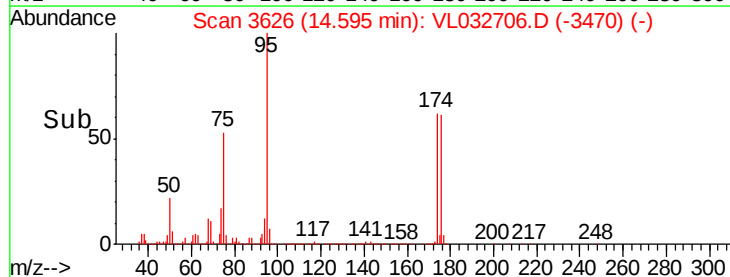
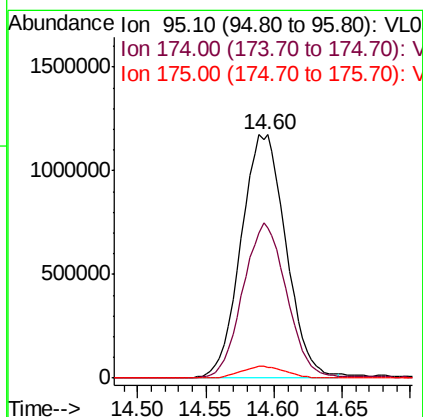
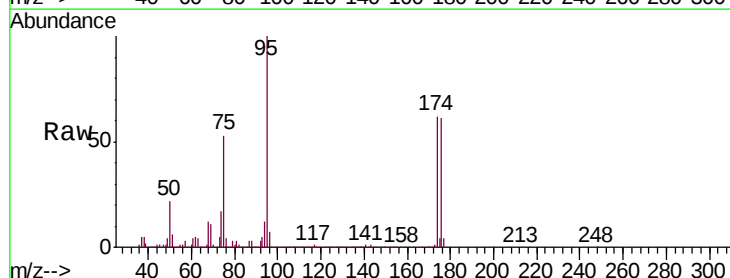
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

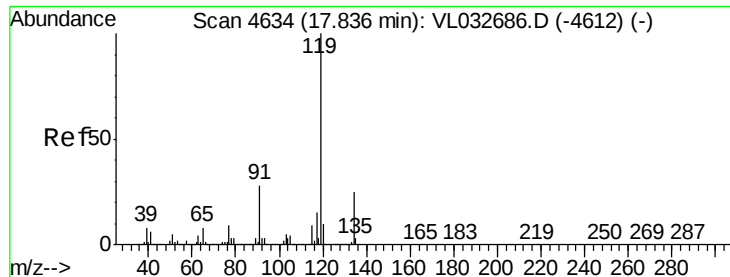
Tgt Ion: 119 Resp: 72317
 Ion Ratio Lower Upper
 119 100
 91 110.8 67.8 101.8#
 134 0.0 15.8 23.8#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.446 ppbv
 RT: 14.60 min Scan# 3626
 Delta R.T. 0.00 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

Tgt Ion: 95 Resp: 2685538
 Ion Ratio Lower Upper
 95 100
 174 63.0 46.0 69.0
 175 4.8 3.4 5.0

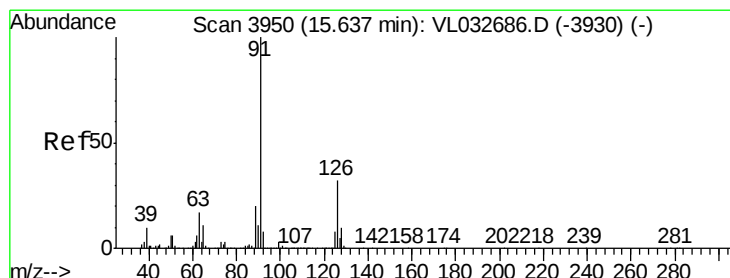
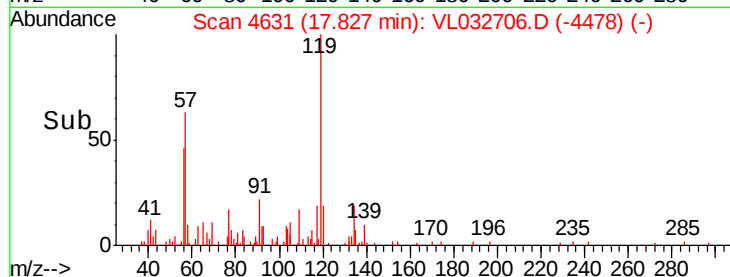
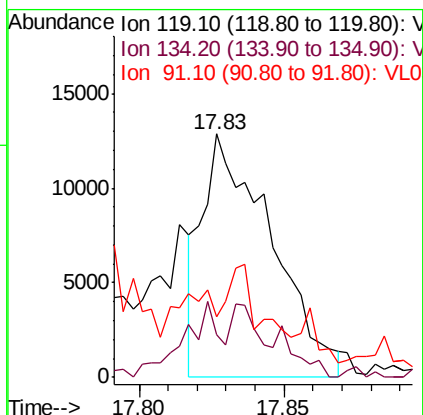
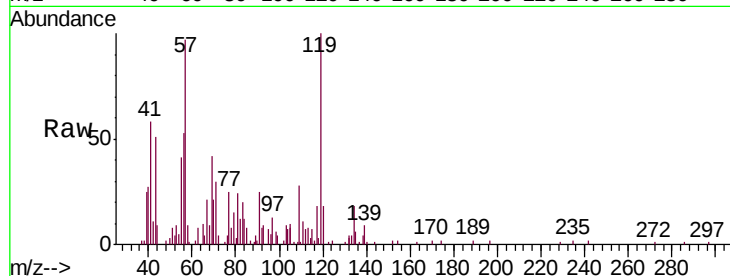




#69
p-Isopropyltoluene
Concen: 0.045 ppbv
RT: 17.83 min Scan# 4631
Delta R.T. -0.01 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

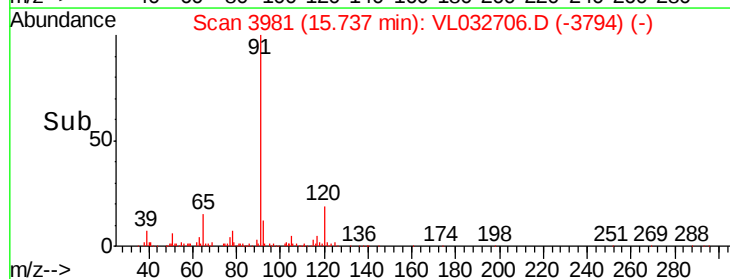
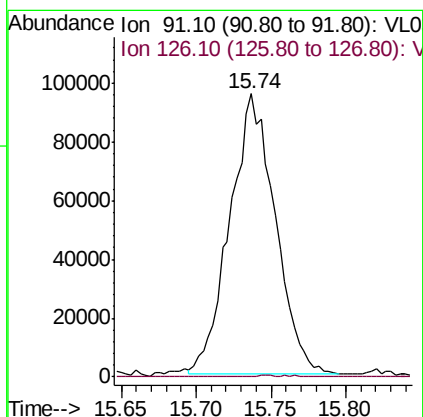
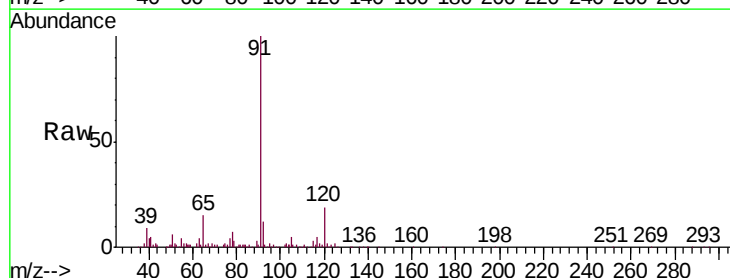
Instrument :
MSVOA_L
ClientSampleId :
SS-1

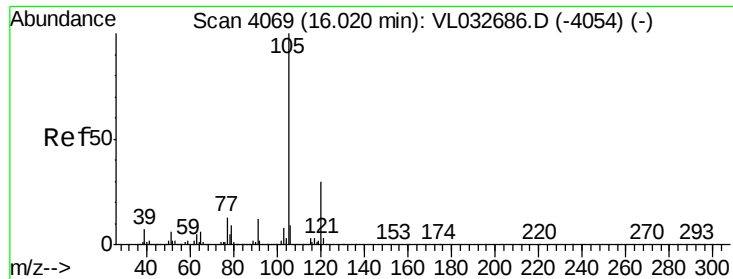
Tgt Ion: 119 Resp: 21214
Ion Ratio Lower Upper
119 100
134 37.6 20.2 30.2#
91 48.0 24.0 36.0#



#71
2-Chlorotoluene
Concen: 0.580 ppbv
RT: 15.74 min Scan# 3981
Delta R.T. 0.10 min
Lab File: VL032706.D
Acq: 30 Oct 2018 20:02

Tgt Ion: 91 Resp: 200994
Ion Ratio Lower Upper
91 100
126 0.3 11.8 47.4#





#72

4-Ethyltoluene

Concen: 0.310 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

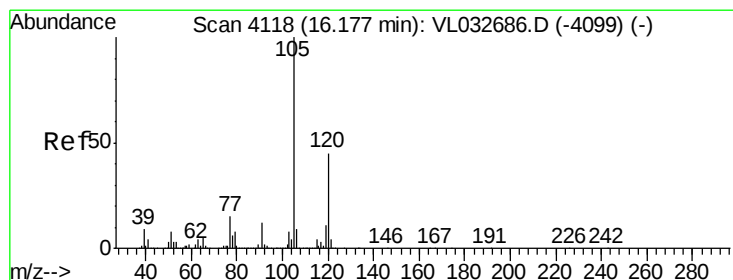
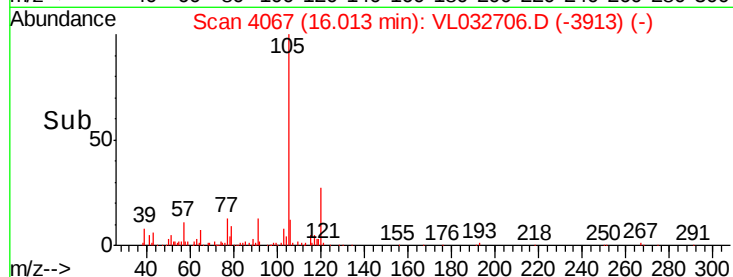
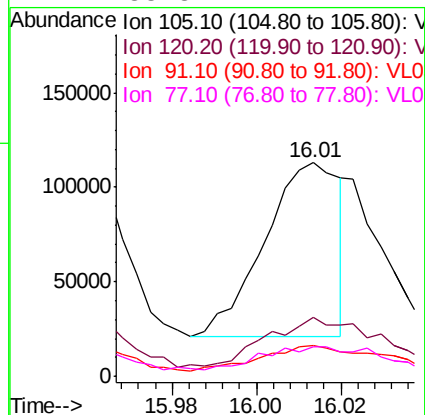
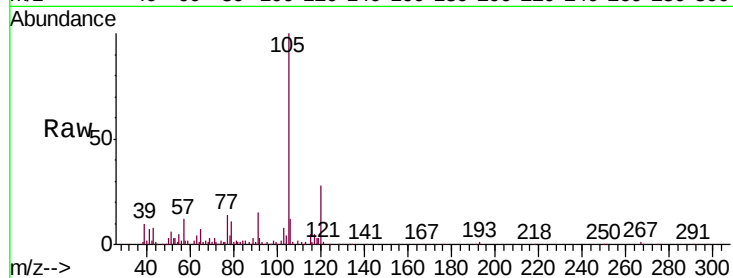
Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion:	105	Resp:	113816
Ion Ratio	Lower	Upper	
105	100		
120	58.8	23.7	35.5#
91	31.0	10.4	15.6#
77	33.3	11.4	17.2#



#73

1,3,5-Trimethylbenzene

Concen: 0.488 ppbv

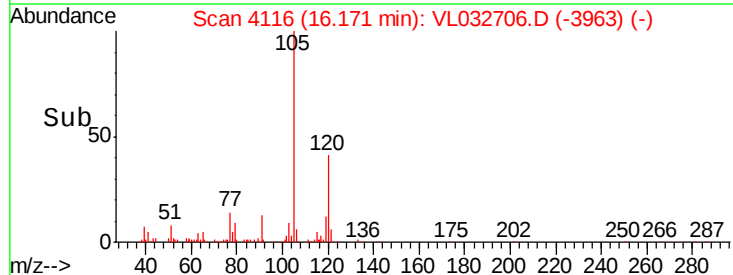
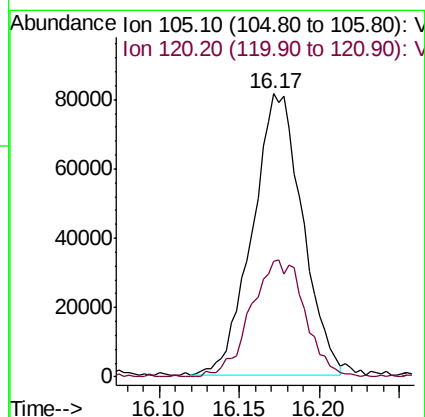
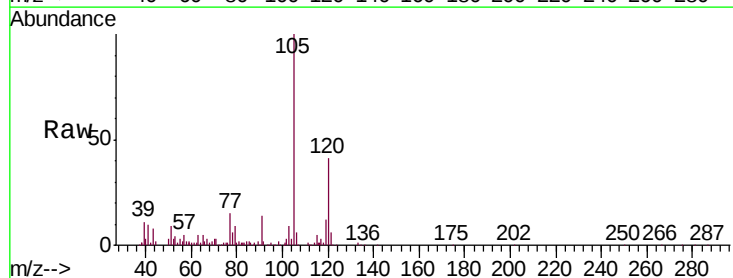
RT: 16.17 min Scan# 4116

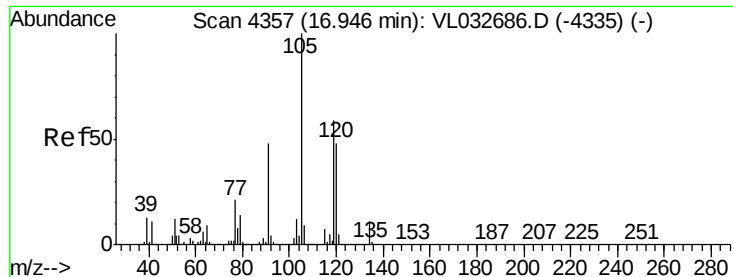
Delta R.T. -0.01 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Tgt Ion:	105	Resp:	174578
Ion Ratio	Lower	Upper	
105	100		
120	41.1	35.4	53.2

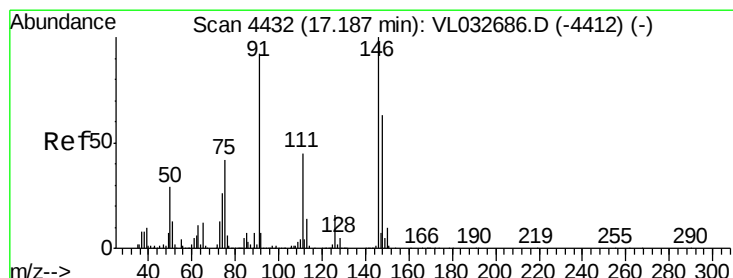
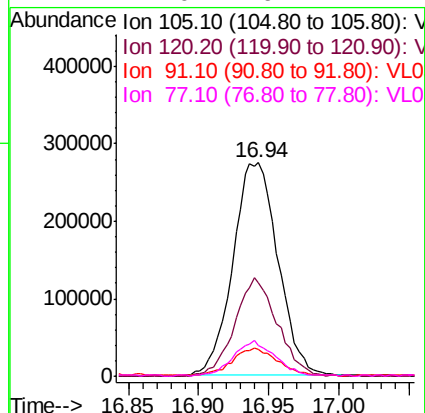
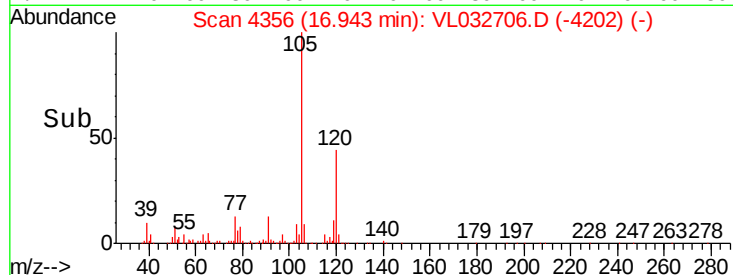
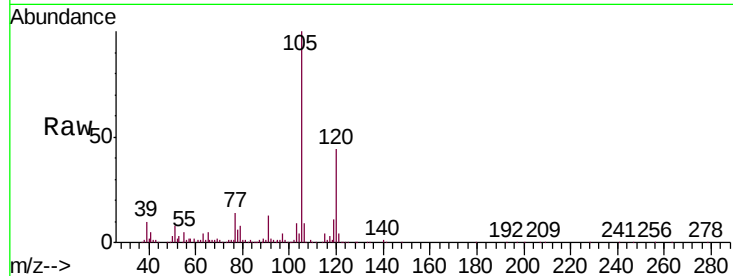




#74
 1,2,4-Trimethylbenzene
 Concen: 1.600 ppbv
 RT: 16.94 min Scan# 4356
 Delta R.T. -0.00 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

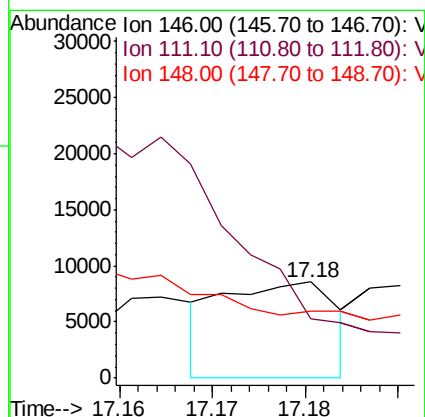
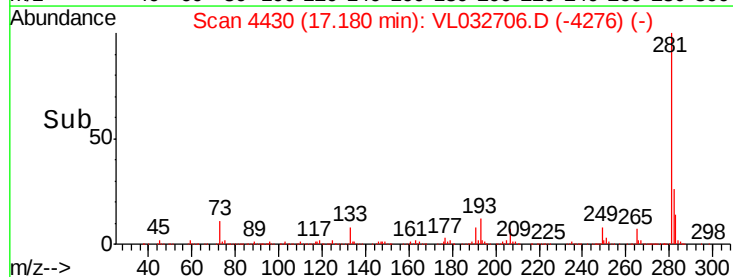
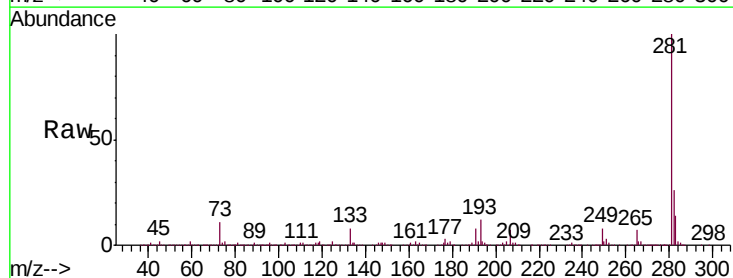
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

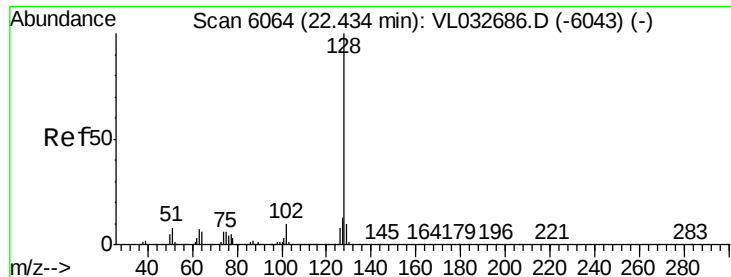
Tgt Ion:	105	Resp:	610717
Ion	Ratio	Lower	Upper
105	100		
120	43.9	35.8	53.8
91	12.5	33.2	49.8#
77	14.0	16.2	24.4#



#75
 1,3-Dichlorobenzene
 Concen: 0.033 ppbv
 RT: 17.18 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL032706.D
 Acq: 30 Oct 2018 20:02

Tgt Ion:	146	Resp:	7293
Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.4	73.2#
148	0.0	31.9	95.9#





#79

Naphthalene

Concen: 0.772 ppbv

RT: 22.43 min Scan# 6063

Delta R.T. -0.00 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

Instrument :

MSVOA_L

ClientSampleId :

SS-1

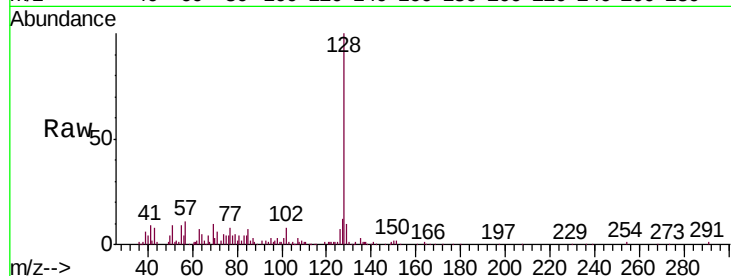
Tgt Ion:128 Resp: 183112

Ion Ratio Lower Upper

128 100

127 12.0 10.3 15.5

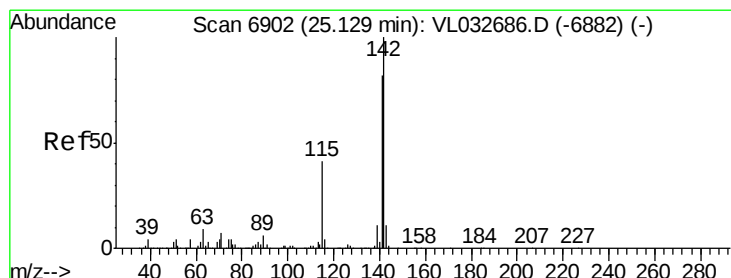
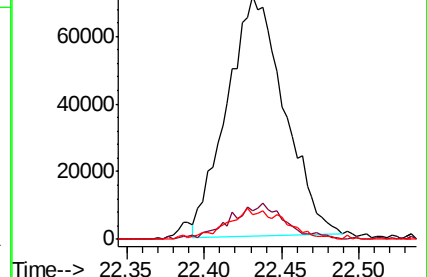
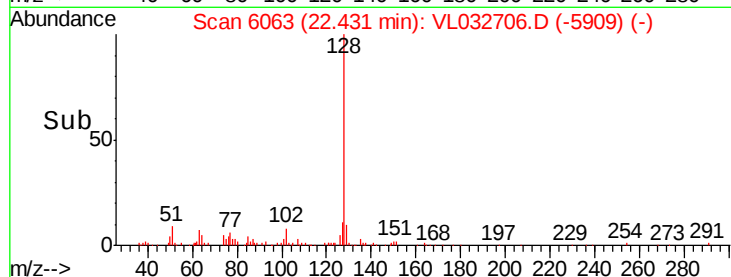
129 10.3 8.6 13.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.837 ppbv

RT: 25.13 min Scan# 6903

Delta R.T. 0.01 min

Lab File: VL032706.D

Acq: 30 Oct 2018 20:02

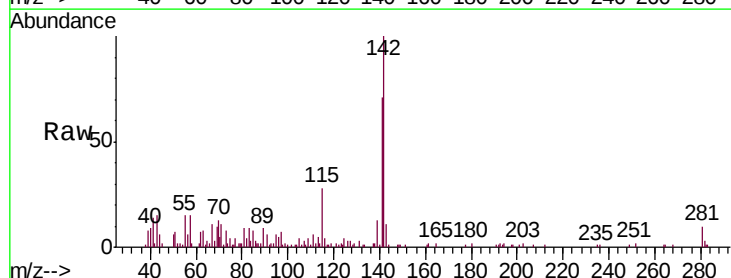
Tgt Ion:142 Resp: 48305

Ion Ratio Lower Upper

142 100

141 88.0 67.5 101.3

115 49.0 33.5 50.3



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

