

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071918\
 Data File : VL032298.D
 Acq On : 19 Jul 2018 21:36
 Operator : SY/AP
 Sample : J4063-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 20 02:11:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 18 14:38:53 2018
 QLast Update : Wed Jul 18 14:38:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1532684	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3159110	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	3642104	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2870795	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

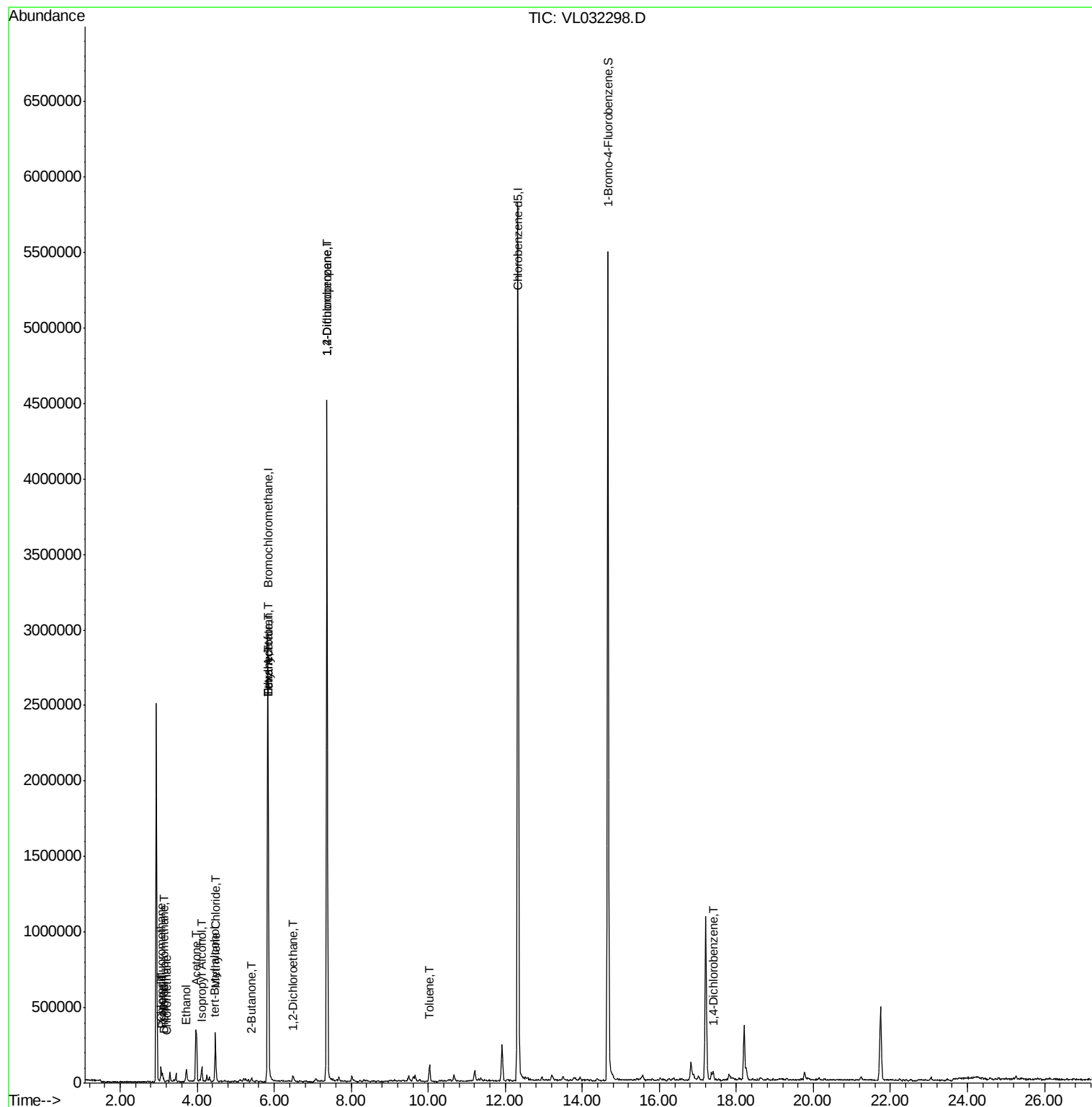
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	12959	0.050	ppbv	90
3) Chlorodifluoromethane	3.06	51	96473	0.561	ppbv	94
4) Chloromethane	3.22	50	4951	0.049	ppbv #	85
9) Propene	3.10	41	9144	0.122	ppbv #	15
13) Ethanol	3.71	45	36578	1.703	ppbv #	37
15) Acetone	3.96	43	390563	2.435	ppbv	92
17) tert-Butyl alcohol	4.45	59	3674	0.073	ppbv #	72
19) Isopropyl Alcohol	4.11	45	53554	0.494	ppbv #	1
20) Methylene Chloride	4.47	84	106453	1.724	ppbv #	86
25) Ethyl Acetate	5.86	43	164653	0.471	ppbv #	73
26) Hexane	5.86	57	207310	1.292	ppbv #	45
34) 2-Butanone	5.41	43	14511	0.067	ppbv #	47
37) 1,2-Dichloroethane	6.49	62	18048	0.098	ppbv #	82
39) 1,2-Dichloropropane	7.37	63	884731	7.187	ppbv #	25
41) Tetrahydrofuran	5.86	42	86448	0.684	ppbv #	51
53) Toluene	10.03	91	81224	0.215	ppbv	97
76) 1,4-Dichlorobenzene	17.39	146	13160	0.046	ppbv #	31

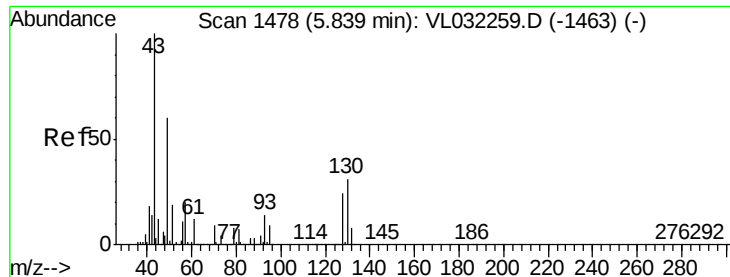
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 18 14:38:53 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.01 min

Lab File: VL032298.D

Acq: 19 Jul 2018 21:36

Instrument :
MSVOA_L
ClientSampleId :

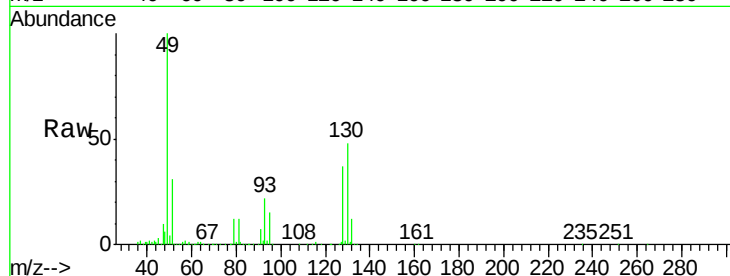
Tot Ion: 49 Resp: 1532684

Ion	Ratio	Lower	Upper
49	100		
128	39.6	20.1	60.2
130	49.9	25.9	77.6

49 100

128 39.6 20.1 60.2

130 49.9 25.9 77.6



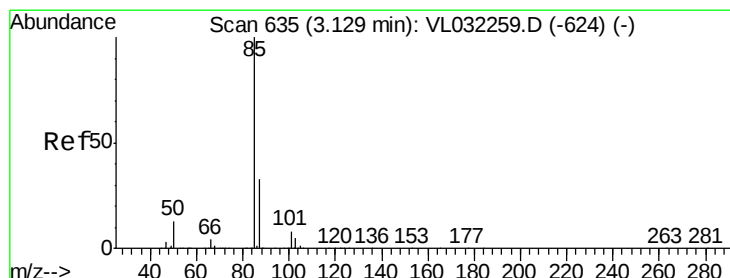
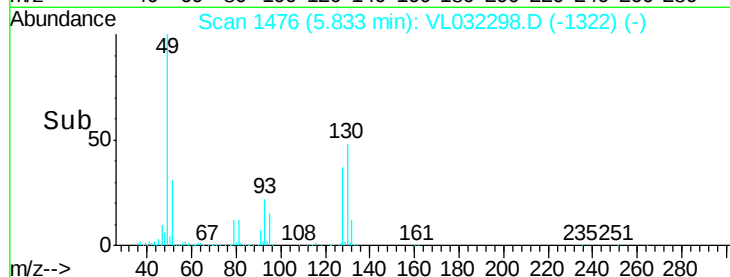
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.83

Time-->



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.13 min Scan# 635

Delta R.T. 0.00 min

Lab File: VL032298.D

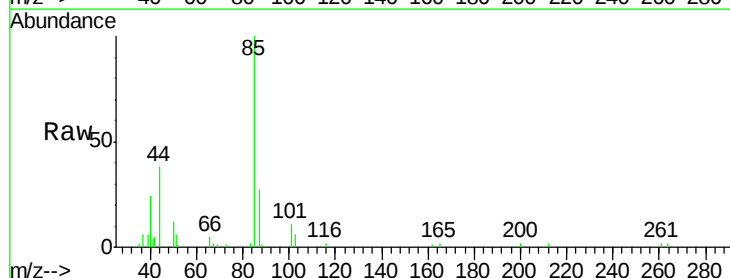
Acq: 19 Jul 2018 21:36

Tgt Ion: 85 Resp: 12959

Ion	Ratio	Lower	Upper
85	100		
87	26.9	26.2	39.2

85 100

87 26.9 26.2 39.2

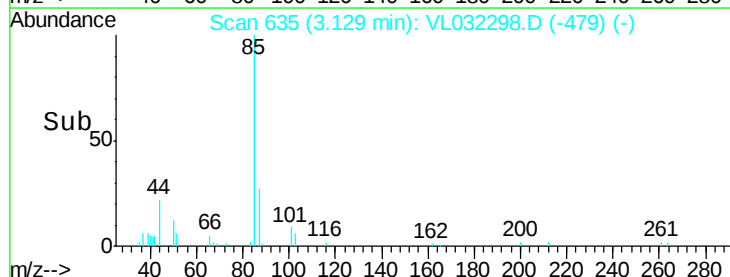


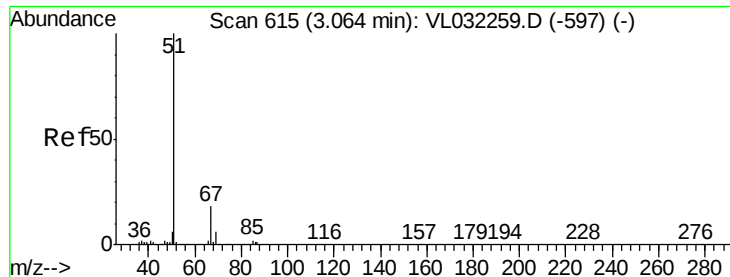
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.13

Time-->





#3

Chlorodifluoromethane

Concen: 0.561 ppbv

RT: 3.06 min Scan# 615

Delta R.T. 0.00 min

Lab File: VL032298.D

Acq: 19 Jul 2018 21:36

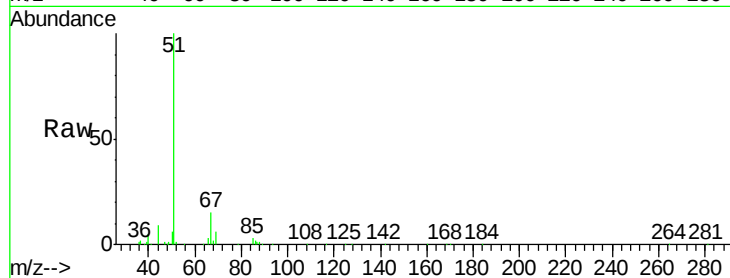
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 96473

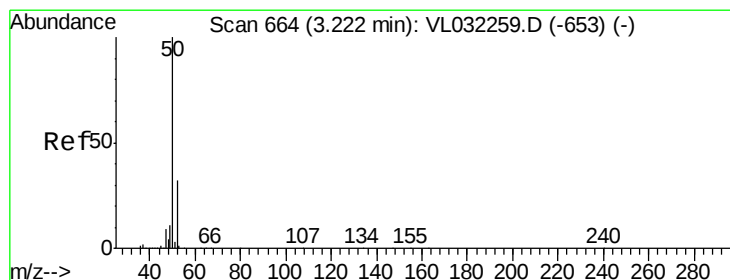
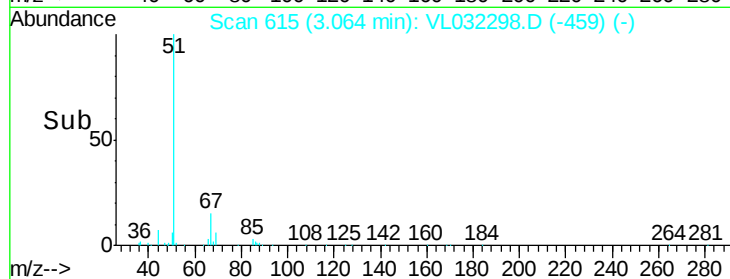
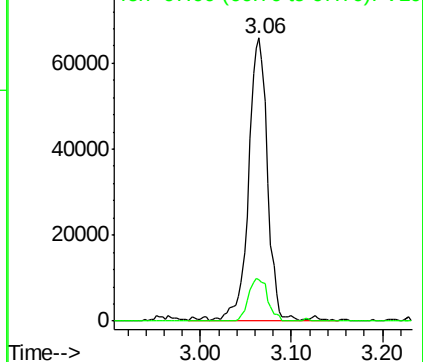
Ion Ratio Lower Upper

51 100

67 15.0 14.2 21.4



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.049 ppbv

RT: 3.22 min Scan# 664

Delta R.T. 0.00 min

Lab File: VL032298.D

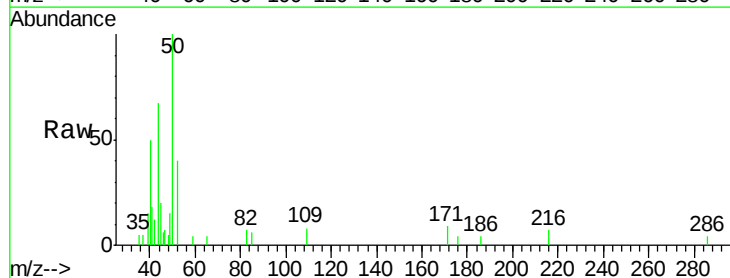
Acq: 19 Jul 2018 21:36

Tgt Ion: 50 Resp: 4951

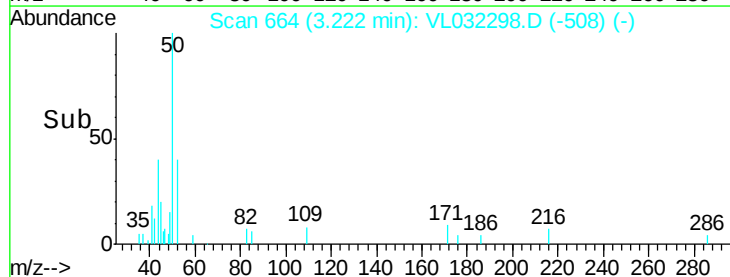
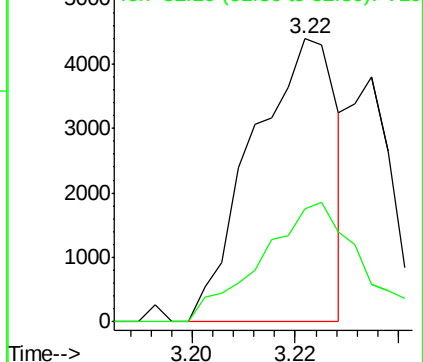
Ion Ratio Lower Upper

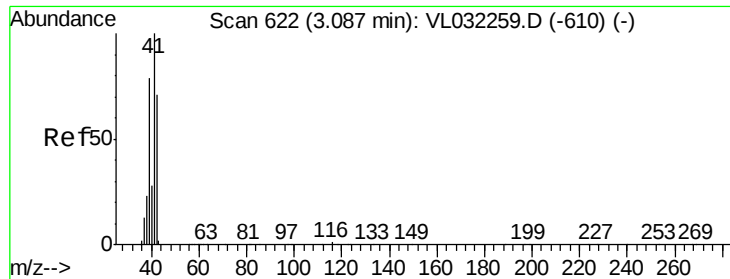
50 100

52 39.8 25.3 37.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.122 ppbv

RT: 3.10 min Scan# 625

Delta R.T. 0.01 min

Lab File: VL032298.D

Acq: 19 Jul 2018 21:36

Instrument :

MSVOA_L

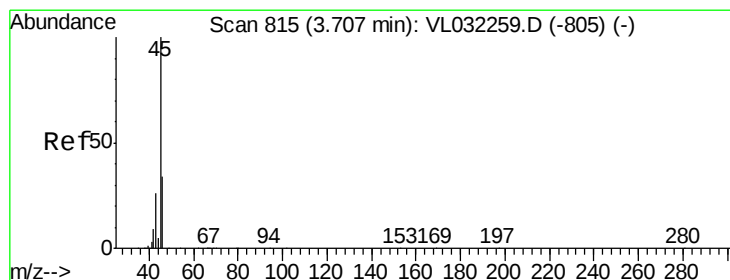
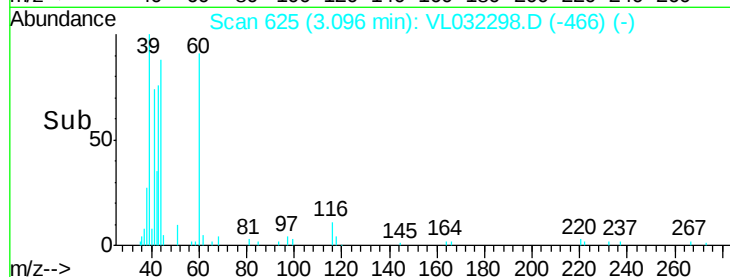
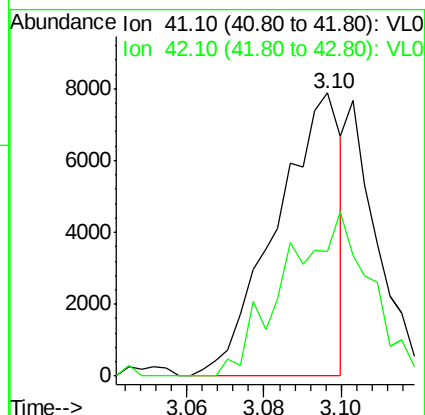
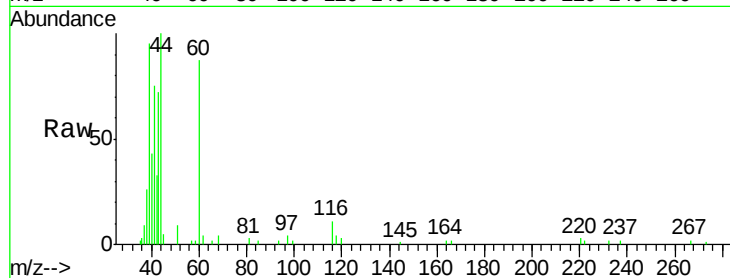
ClientSampled :

Tot Ion: 41 Resp: 9144

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#13

Ethanol

Concen: 1.703 ppbv

RT: 3.71 min Scan# 816

Delta R.T. 0.00 min

Lab File: VL032298.D

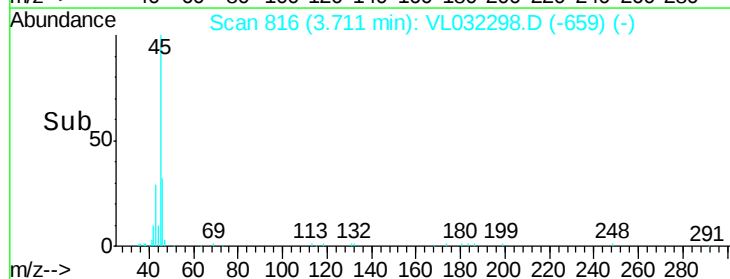
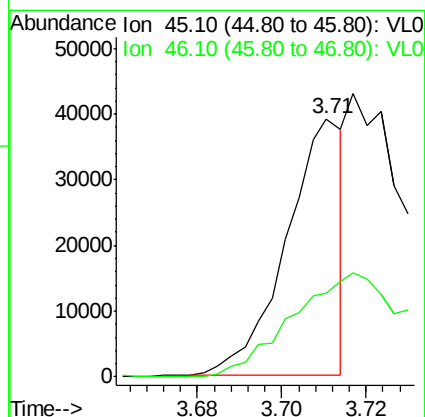
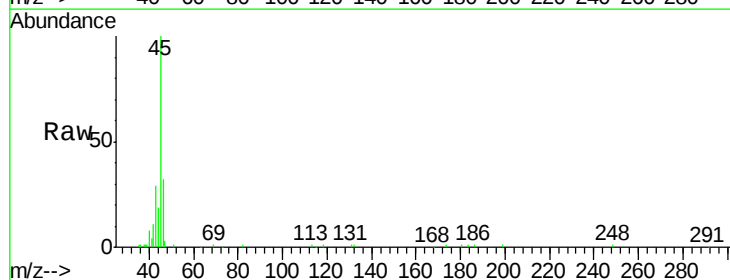
Acq: 19 Jul 2018 21:36

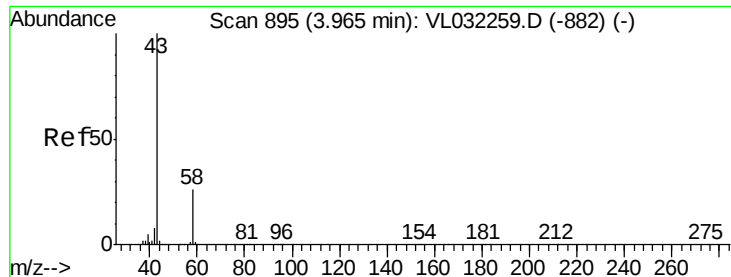
Tgt Ion: 45 Resp: 36578

Ion Ratio Lower Upper

45 100

46 0.0 15.2 60.8#





#15

Acetone

Concen: 2.435 ppbv

RT: 3.96 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL032298.D

Acq: 19 Jul 2018 21:36

Instrument :

MSVOA_L

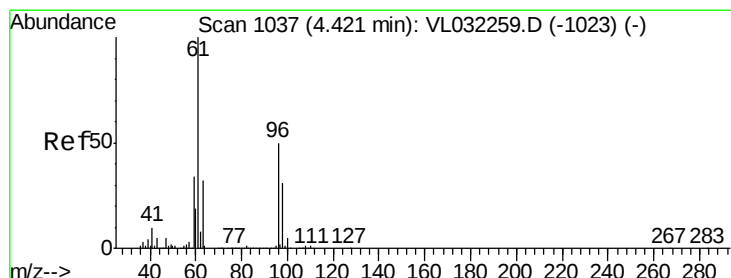
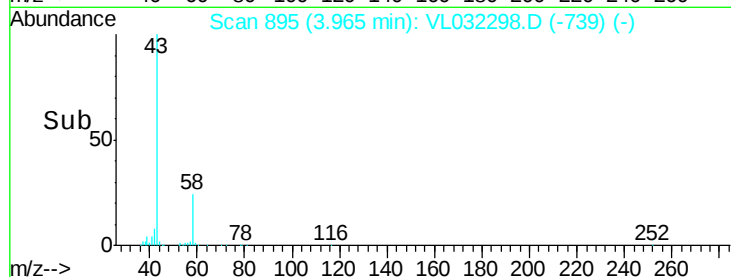
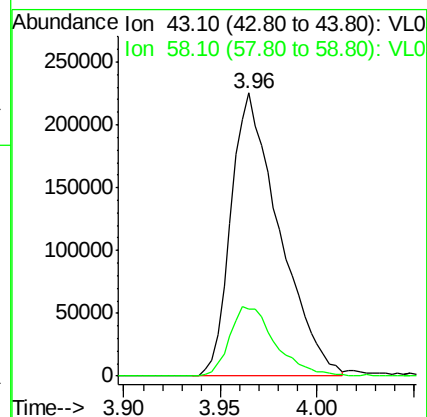
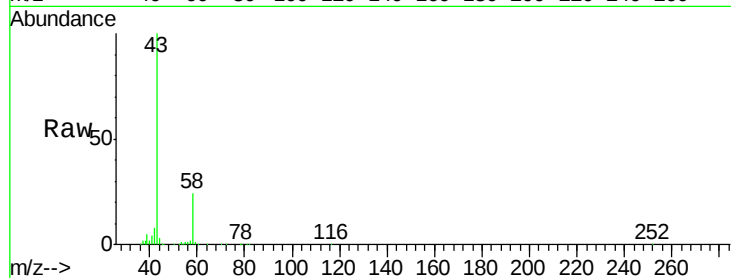
ClientSampleId :

Tot Ion: 43 Resp: 390563

Ion Ratio Lower Upper

43 100

58 23.2 21.8 32.6



#17

tert-Butyl alcohol

Concen: 0.073 ppbv

RT: 4.45 min Scan# 1046

Delta R.T. 0.03 min

Lab File: VL032298.D

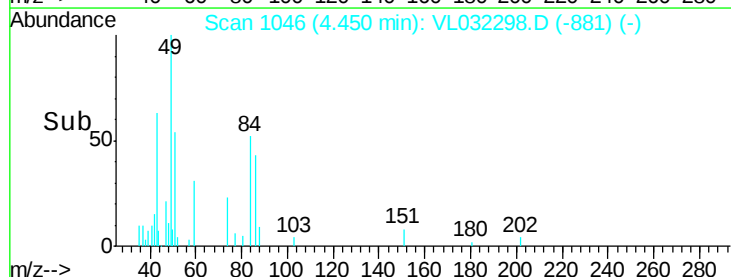
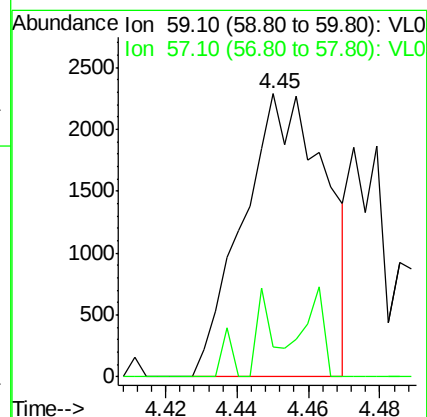
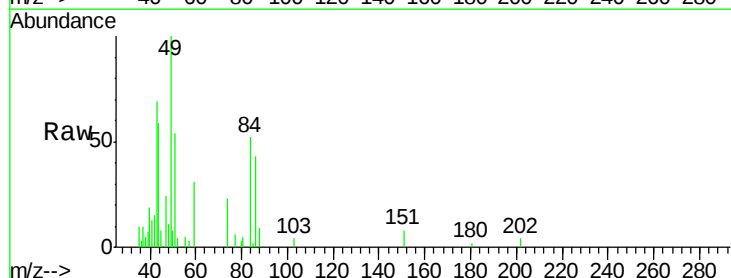
Acq: 19 Jul 2018 21:36

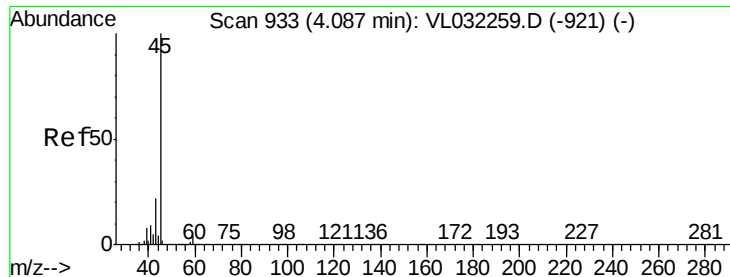
Tgt Ion: 59 Resp: 3674

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#19

Isopropyl Alcohol

Concen: 0.494 ppbv

RT: 4.11 min Scan# 940

Delta R.T. 0.02 min

Lab File: VL032298.D

Acq: 19 Jul 2018 21:36

Instrument :

MSVOA_L

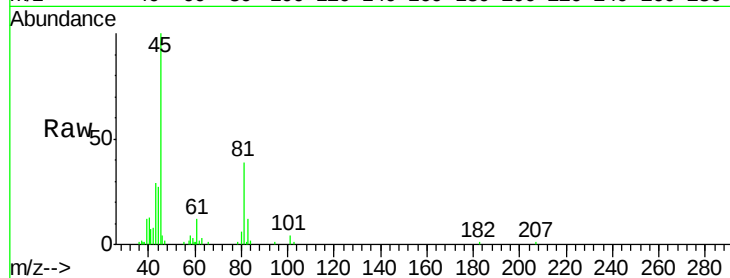
ClientSampleId :

Tot Ion: 45 Resp: 53554

Ion Ratio Lower Upper

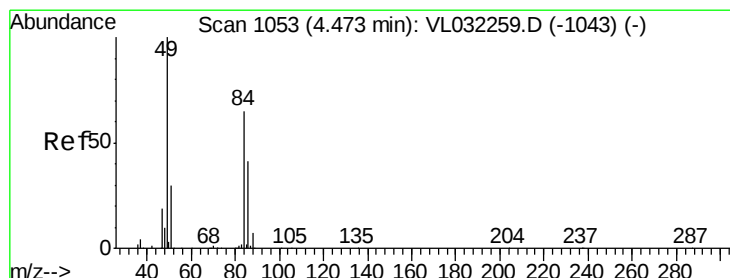
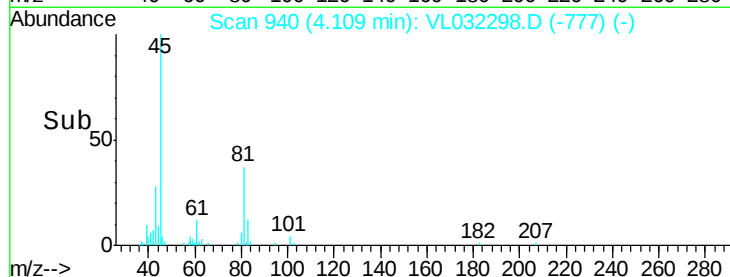
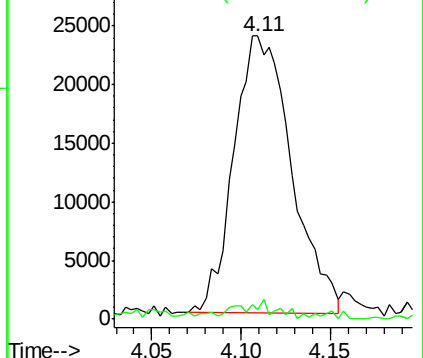
45 100

58 170.2 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.724 ppbv

RT: 4.47 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VL032298.D

Acq: 19 Jul 2018 21:36

Tgt Ion: 84 Resp: 106453

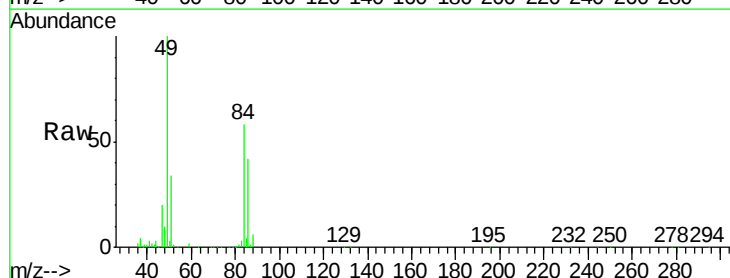
Ion Ratio Lower Upper

84 100

49 170.8 122.4 183.6

51 57.8 36.8 55.2#

86 70.8 50.7 76.1

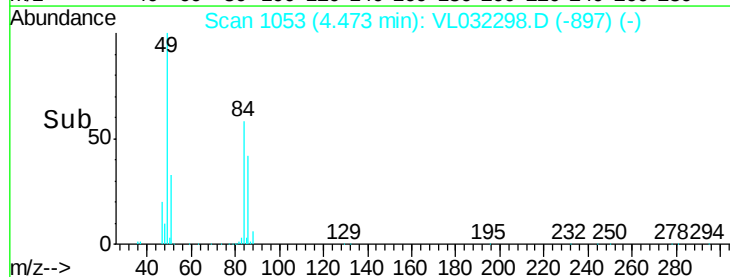
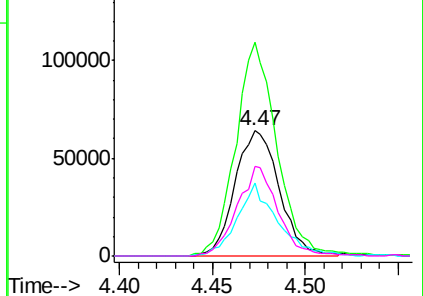


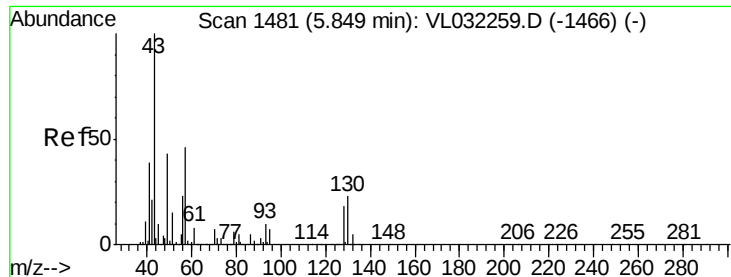
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

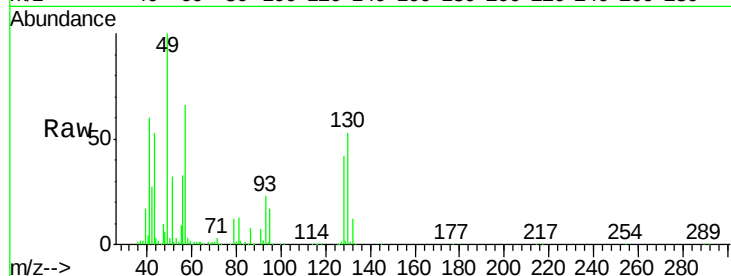




#25
Ethyl Acetate
Concen: 0.471 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. 0.01 min
Lab File: VL032298.D
Acq: 19 Jul 2018 21:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	164653
Ion	Ratio	Lower	Upper
43	100		
45	26.6	7.9	11.9#
61	2.7	7.6	11.4#
70	1.9	5.8	8.8#



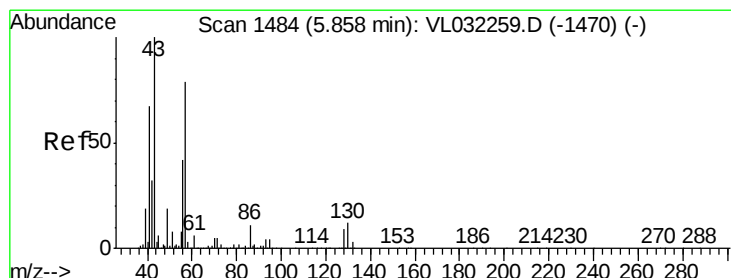
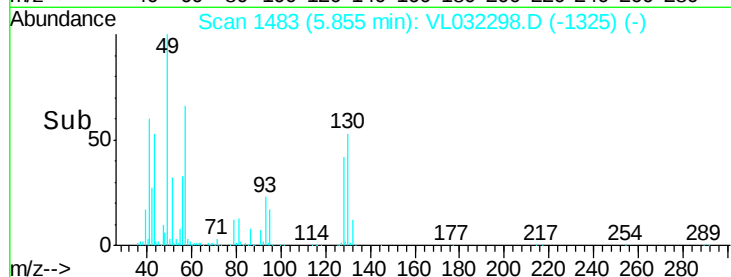
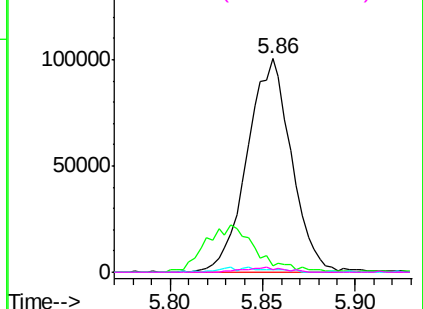
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

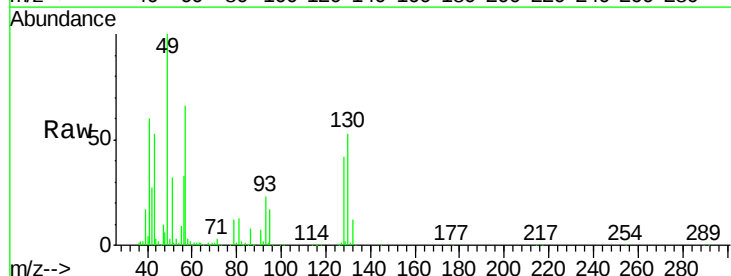
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.292 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.00 min
Lab File: VL032298.D
Acq: 19 Jul 2018 21:36

Tgt Ion:	57	Resp:	207310
Ion	Ratio	Lower	Upper
57	100		
41	91.6	67.9	101.9
43	81.2	175.9	263.9#
56	55.4	41.9	62.9



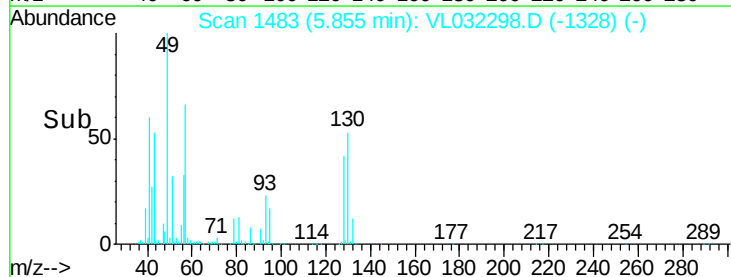
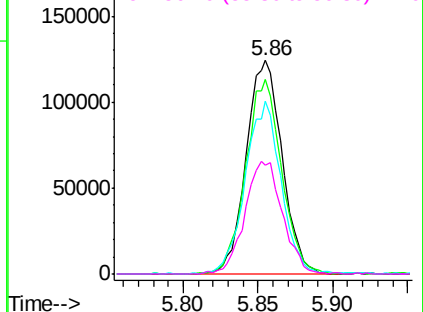
Abundance

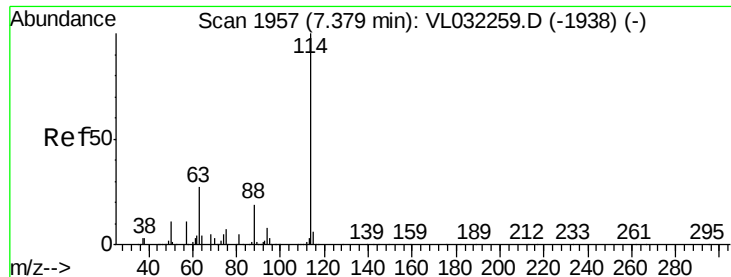
Ion 57.10 (56.80 to 57.80): VL0

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

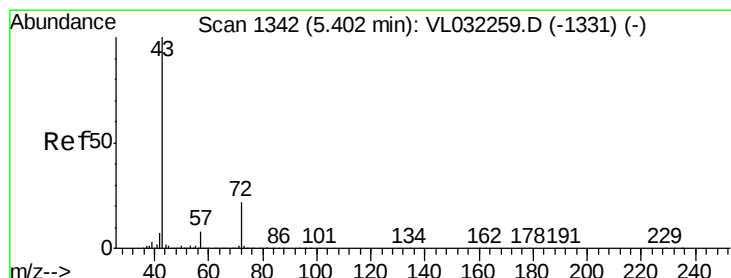
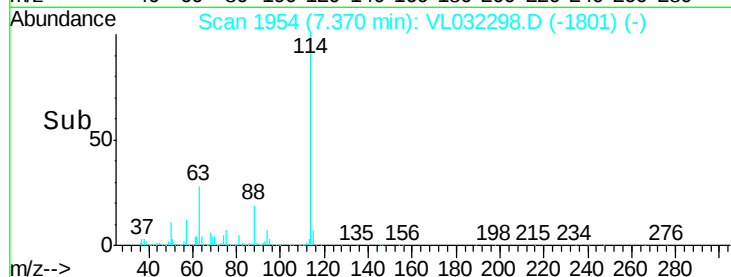
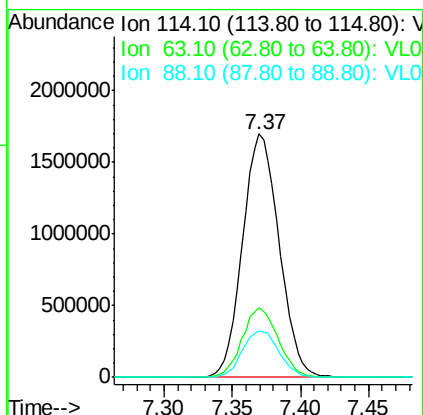
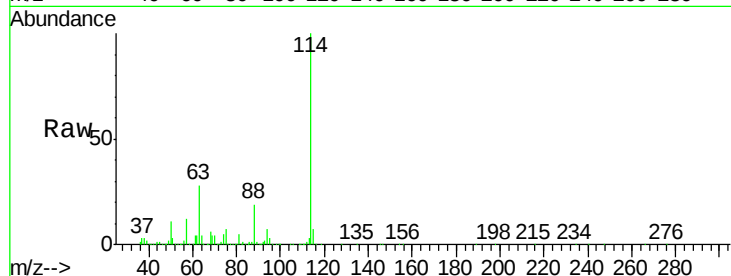




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.01 min
 Lab File: VL032298.D
 Acq: 19 Jul 2018 21:36

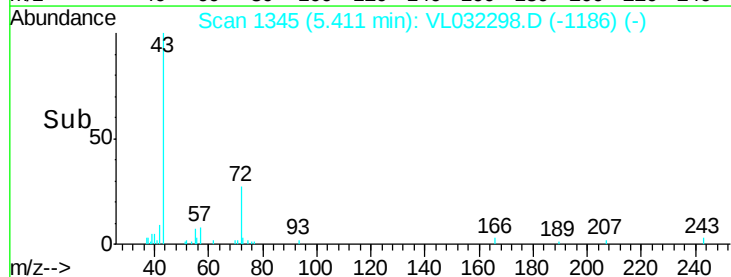
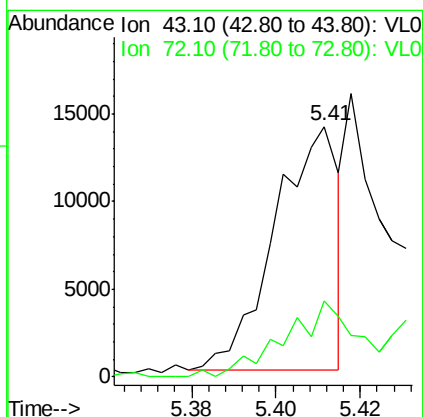
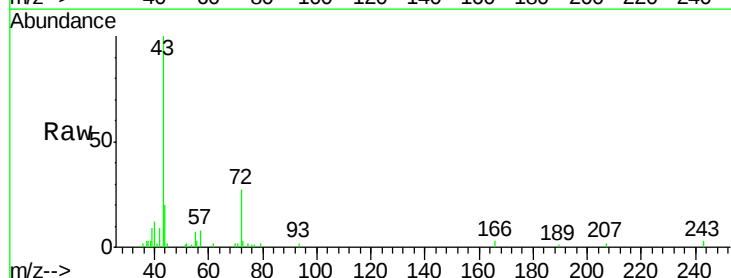
Instrument :
 MSVOA_L
 ClientSampleId :

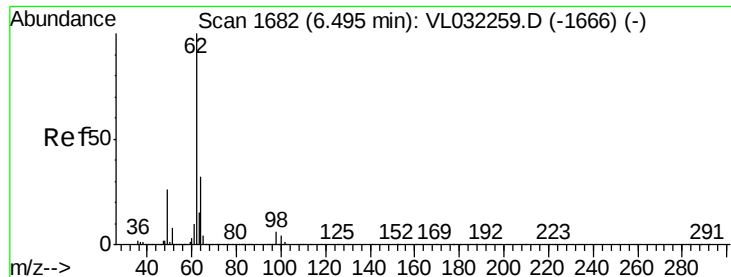
Tot Ion:114 Resp: 3159110
 Ion Ratio Lower Upper
 114 100
 63 28.2 22.6 33.8
 88 19.3 15.2 22.8



#34
 2-Butanone
 Concen: 0.067 ppbv
 RT: 5.41 min Scan# 1345
 Delta R.T. 0.01 min
 Lab File: VL032298.D
 Acq: 19 Jul 2018 21:36

Tgt Ion: 43 Resp: 14511
 Ion Ratio Lower Upper
 43 100
 72 47.4 17.7 26.5#

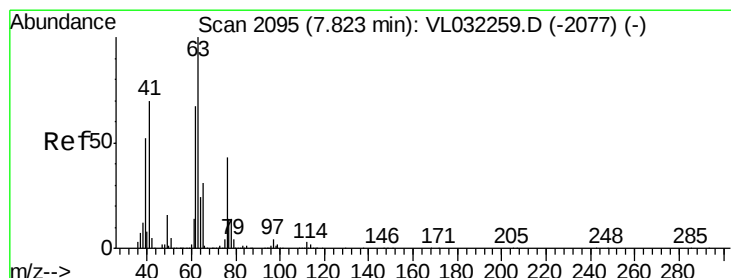
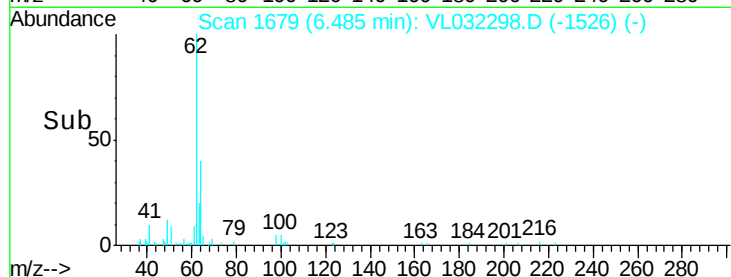
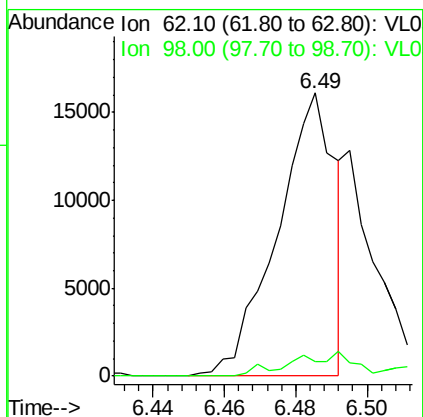
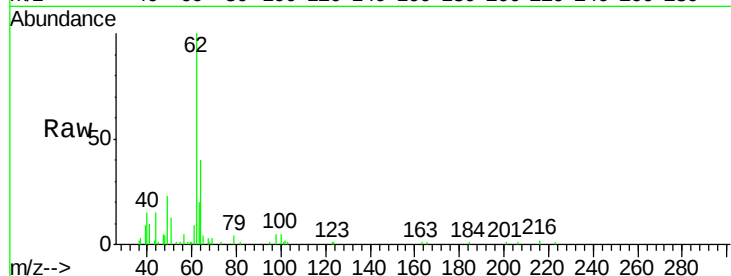




#37
 1,2-Dichloroethane
 Concen: 0.098 ppbv
 RT: 6.49 min Scan# 1679
 Delta R.T. -0.01 min
 Lab File: VL032298.D
 Acq: 19 Jul 2018 21:36

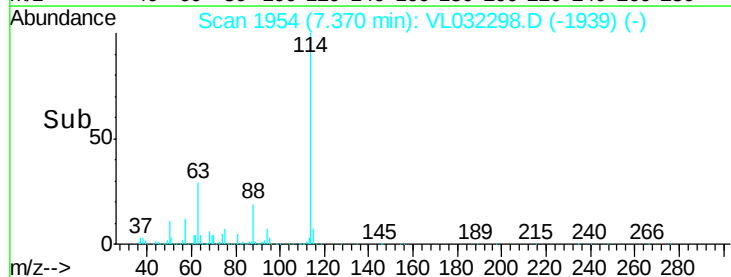
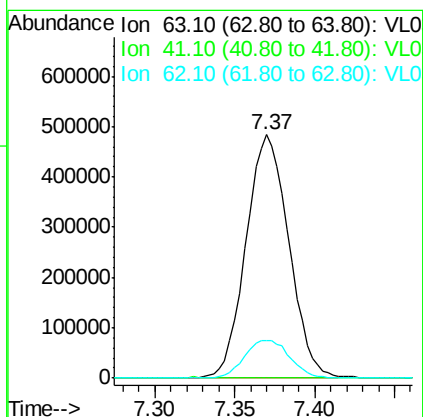
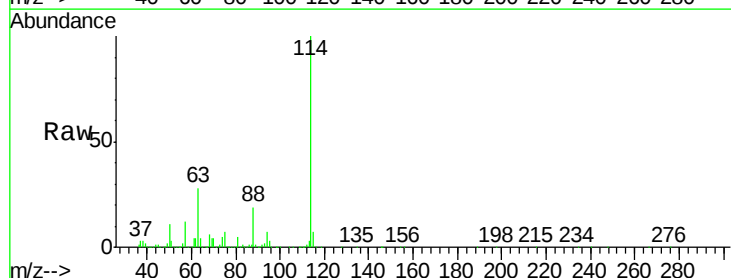
Instrument :
 MSVOA_L
 ClientSampleId :

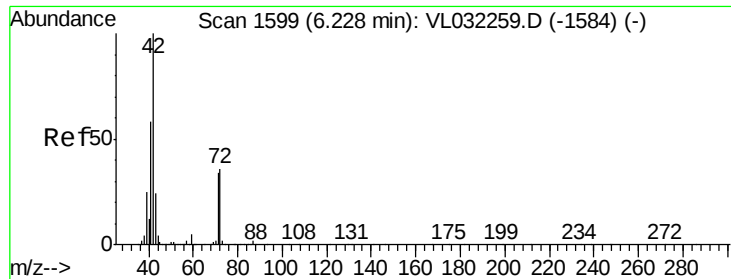
Tot Ion: 62 Resp: 18048
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.9 7.3#



#39
 1,2-Dichloropropane
 Concen: 7.187 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.45 min
 Lab File: VL032298.D
 Acq: 19 Jul 2018 21:36

Tgt Ion: 63 Resp: 884731
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.8 83.6#
 62 15.5 53.8 80.8#





#41

Tetrahydrofuran

Concen: 0.684 ppbv

RT: 5.86 min Scan# 1483

Delta R.T. -0.37 min

Lab File: VL032298.D

Acq: 19 Jul 2018 21:36

Instrument :

MSVOA_L

ClientSampleId :

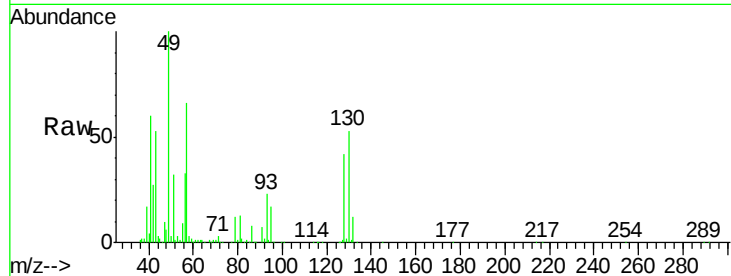
Tot Ion: 42 Resp: 86448

Ion Ratio Lower Upper

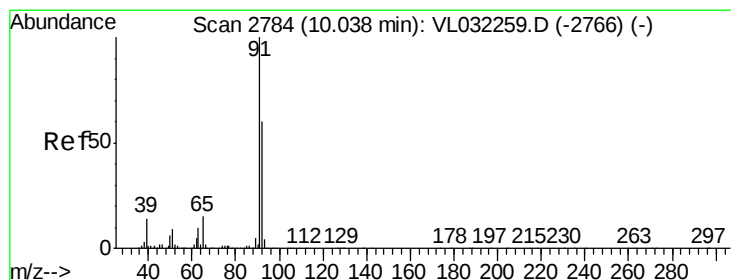
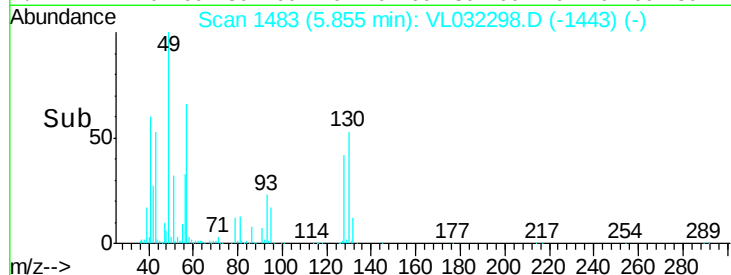
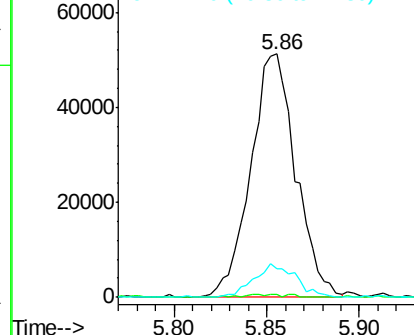
42 100

72 1.2 29.4 44.0#

71 12.8 28.2 42.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#53

Toluene

Concen: 0.215 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. -0.01 min

Lab File: VL032298.D

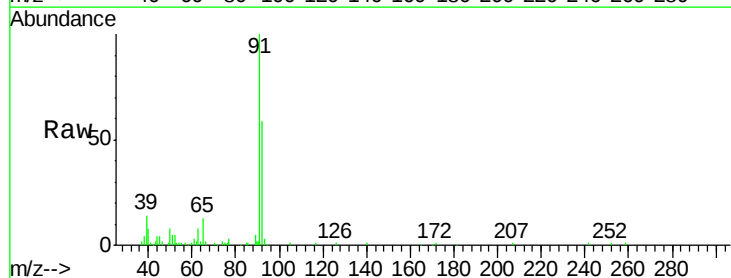
Acq: 19 Jul 2018 21:36

Tgt Ion: 91 Resp: 81224

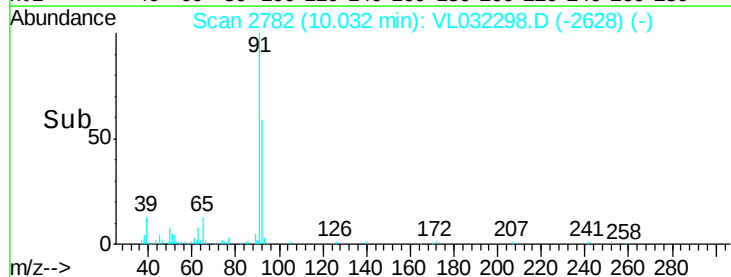
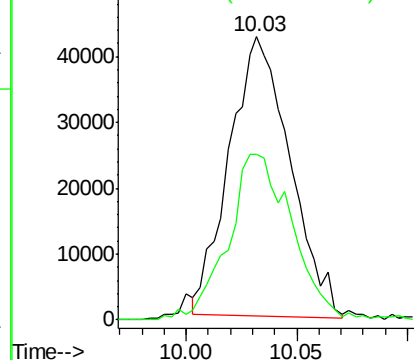
Ion Ratio Lower Upper

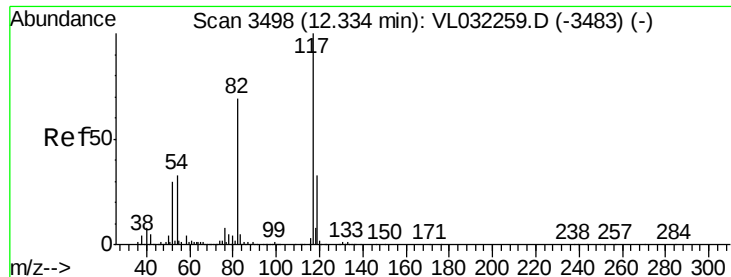
91 100

92 63.2 48.6 72.8



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

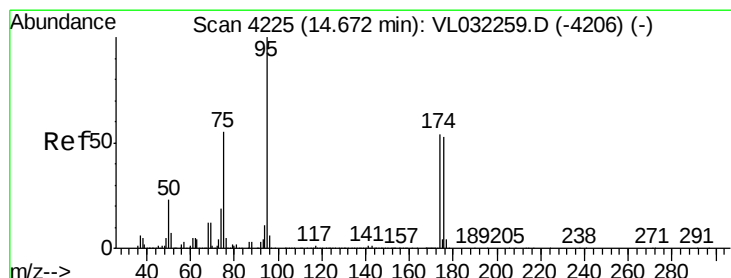
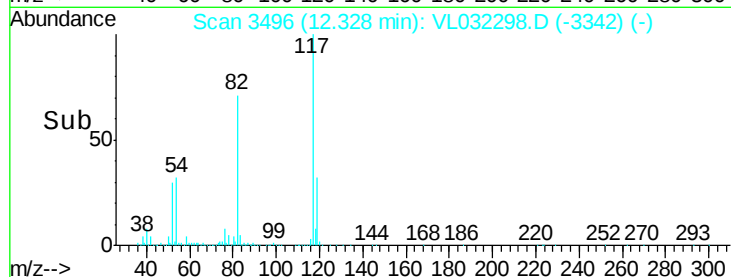
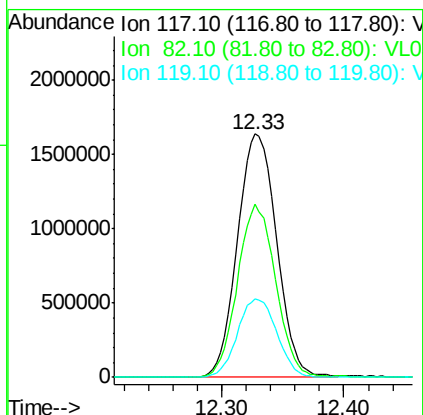
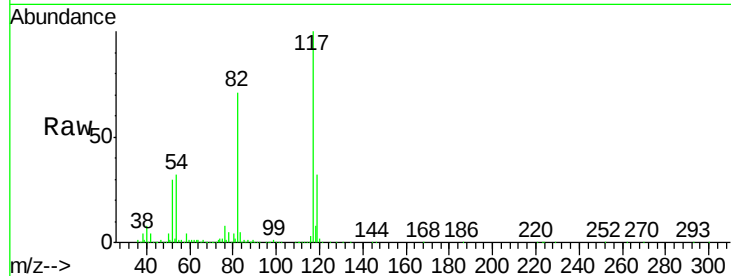




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.33 min Scan# 3496
Delta R.T. -0.01 min
Lab File: VL032298.D
Acq: 19 Jul 2018 21:36

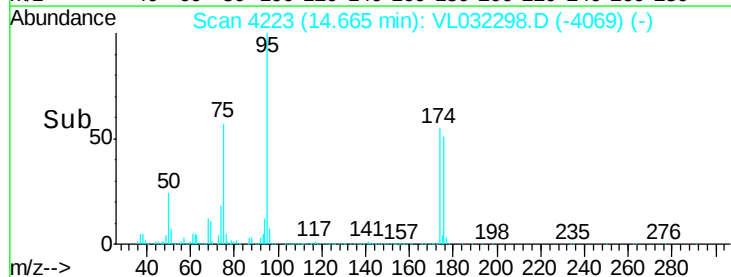
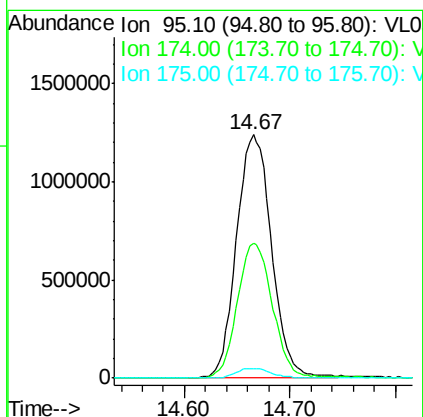
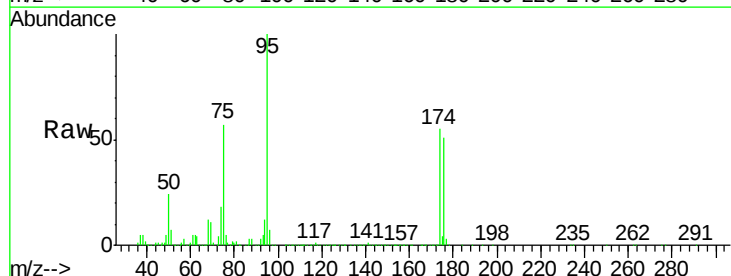
Instrument :
MSVOA_L
ClientSampleId :

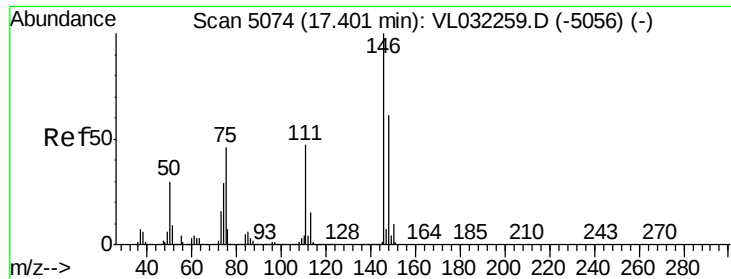
Tot Ion:117 Resp: 3642104
Ion Ratio Lower Upper
117 100
82 70.0 53.9 80.9
119 32.6 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.722 ppbv
RT: 14.67 min Scan# 4223
Delta R.T. -0.01 min
Lab File: VL032298.D
Acq: 19 Jul 2018 21:36

Tgt Ion: 95 Resp: 2870795
Ion Ratio Lower Upper
95 100
174 55.9 44.3 66.5
175 4.0 3.3 4.9





#76

1,4-Dichlorobenzene

Concen: 0.046 ppbv

RT: 17.39 min Scan# 5072

Delta R.T. -0.01 min

Lab File: VL032298.D

Acq: 19 Jul 2018 21:36

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:146 Resp: 13160

Ion Ratio Lower Upper

146 100

111 92.2 24.1 72.2#

148 120.0 31.9 95.9#

