

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081618\
 Data File : VL032401.D
 Acq On : 17 Aug 2018 10:05
 Operator : SY/AP
 Sample : J4457-03DL2 400X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG06-MIVIDL2

Quant Time: Aug 17 23:21:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1766343	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3628510	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3344077	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2564567	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

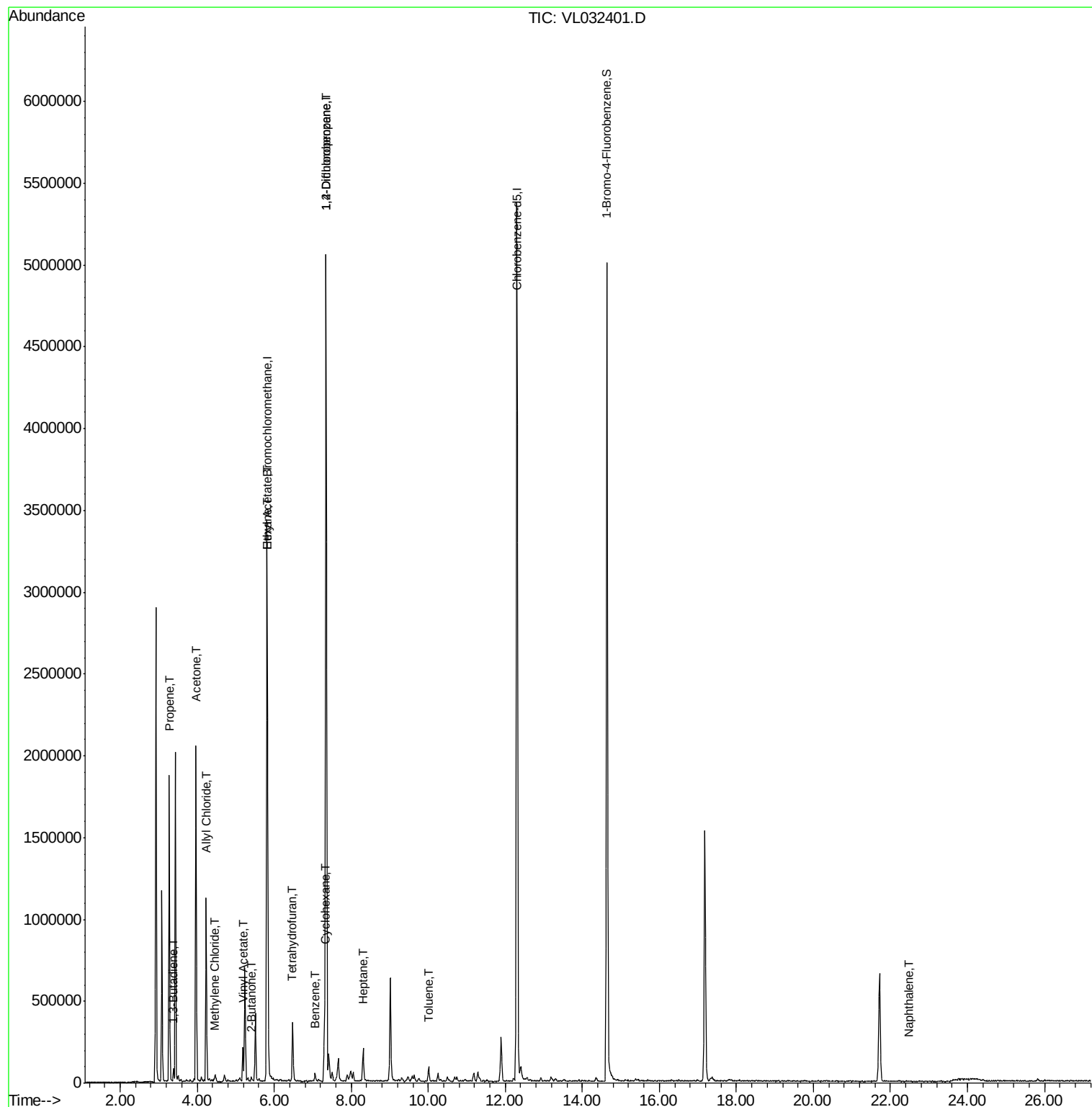
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	419	Below Cal		99
9) Propene	3.27	41	540927	7.724	ppbv	97
10) Heptane	8.31	43	65756	0.312	ppbv	96
15) Acetone	3.97	43	839979	5.005	ppbv #	68
16) 1,3-Butadiene	3.38	39	19701	0.284	ppbv #	1
20) Methylene Chloride	4.46	84	8149	0.129	ppbv #	82
21) Allyl Chloride	4.23	41	306753	2.896	ppbv #	54
23) Vinyl Acetate	5.19	43	48727	0.168	ppbv #	1
25) Ethyl Acetate	5.83	43	182626	0.508	ppbv #	78
26) Hexane	5.83	57	245806	1.533	ppbv #	42
30) Cyclohexane	7.31	84	114761	0.940	ppbv #	63
34) 2-Butanone	5.41	43	28921	0.117	ppbv	97
36) Benzene	7.05	78	14205	0.046	ppbv	97
39) 1,2-Dichloropropane	7.35	63	1009250	7.854	ppbv #	25
41) Tetrahydrofuran	6.47	42	6628	0.050	ppbv #	41
53) Toluene	10.01	91	66129	0.196	ppbv	98
79) Naphthalene	22.48	128	104	0.328	ppbv #	1

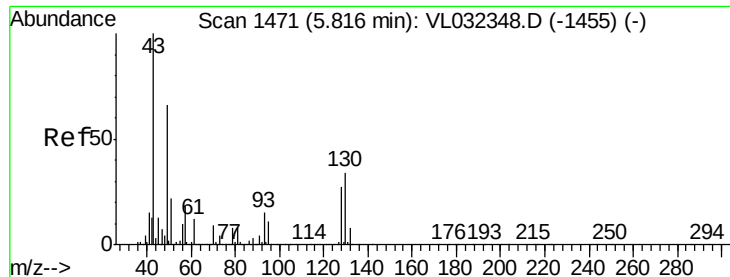
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032401.D

Acq: 17 Aug 2018 10:05

Instrument :

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ClientSampleId :

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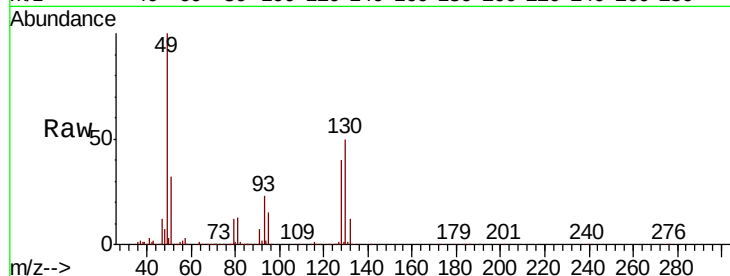
Tgt Ion: 49 Resp: 1766343

Ion Ratio Lower Upper

49 100

128 40.9 20.5 61.6

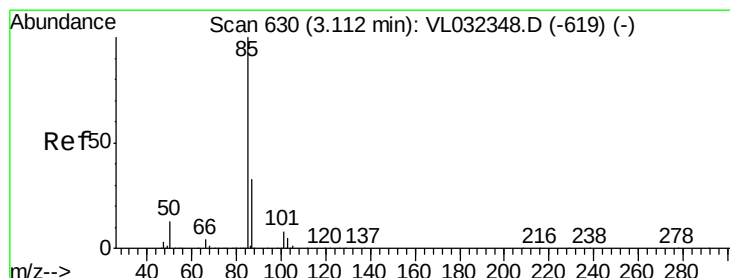
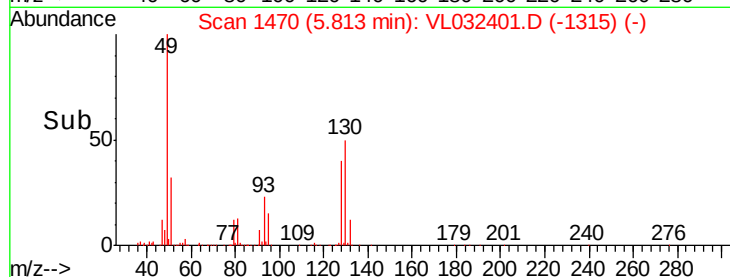
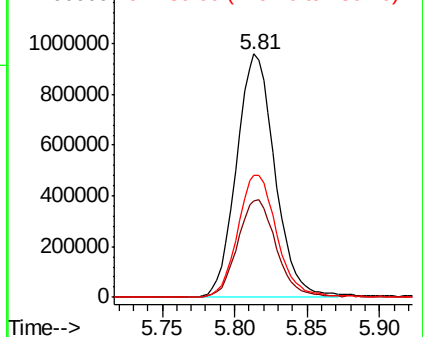
130 51.6 26.2 78.5



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: Below Cal

RT: 3.08 min Scan# 621

Delta R.T. -0.03 min

Lab File: VL032401.D

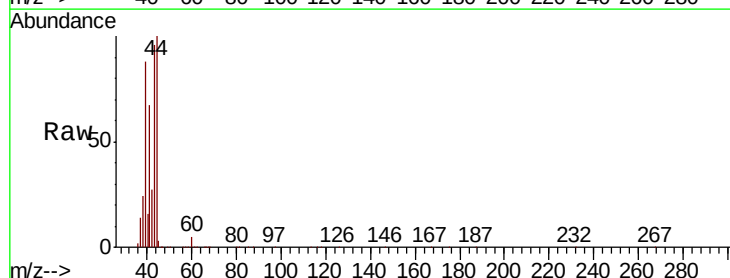
Acq: 17 Aug 2018 10:05

Tgt Ion: 85 Resp: 419

Ion Ratio Lower Upper

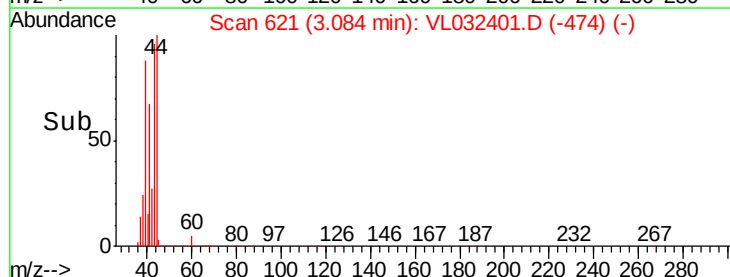
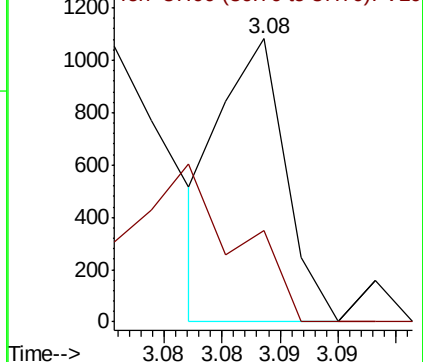
85 100

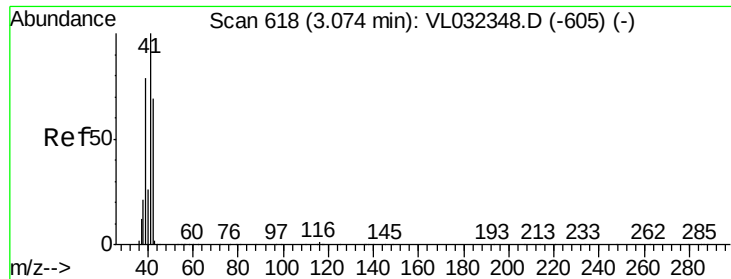
87 32.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 7.724 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.20 min

Lab File: VL032401.D

Acq: 17 Aug 2018 10:05

Instrument :

MSVOA_L

ClientSampleId :

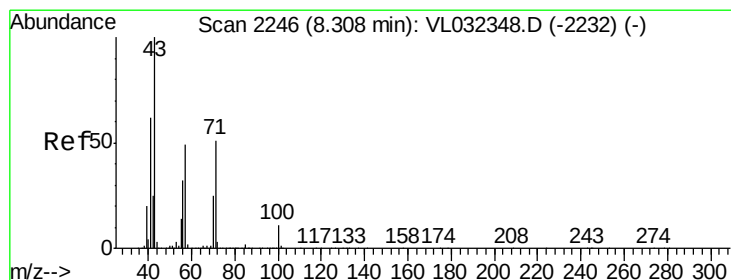
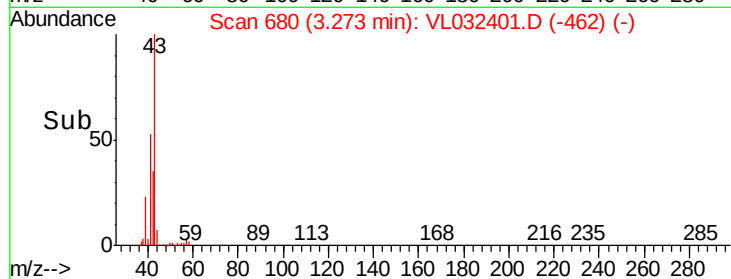
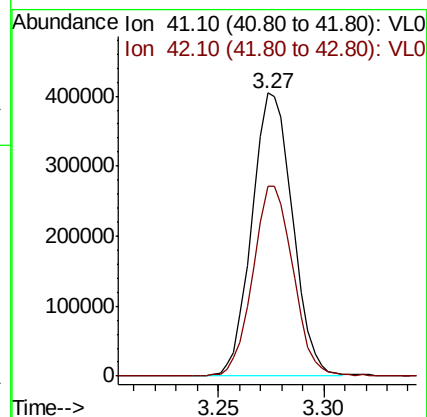
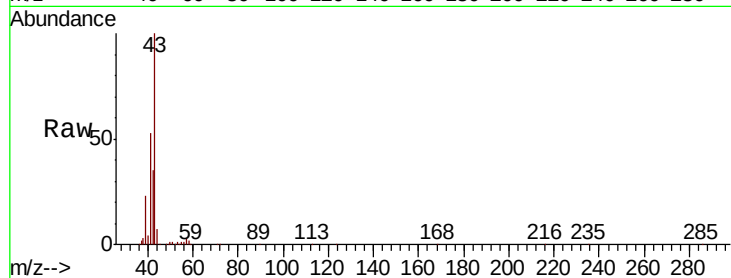
SG06-MIVIDL2

Tgt Ion: 41 Resp: 540927

Ion Ratio Lower Upper

41 100

42 67.2 55.9 83.9



#10

Heptane

Concen: 0.312 ppbv

RT: 8.31 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VL032401.D

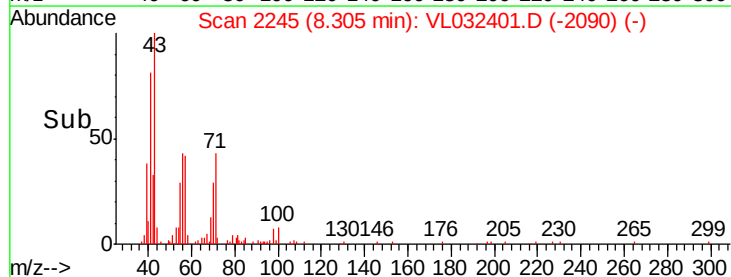
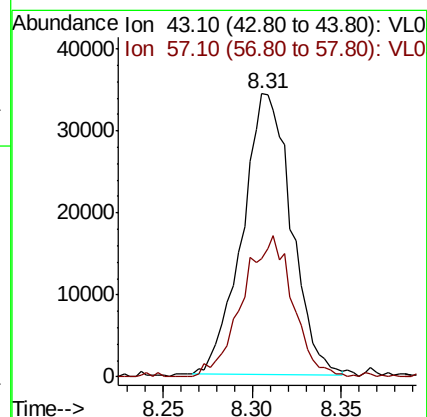
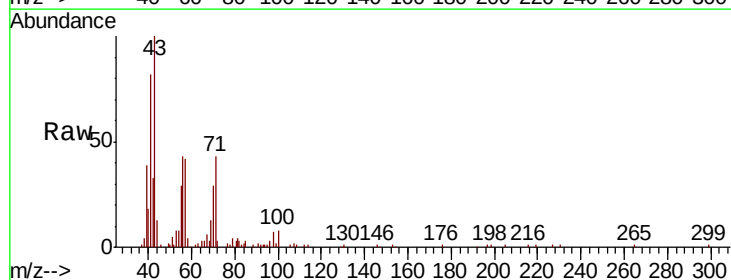
Acq: 17 Aug 2018 10:05

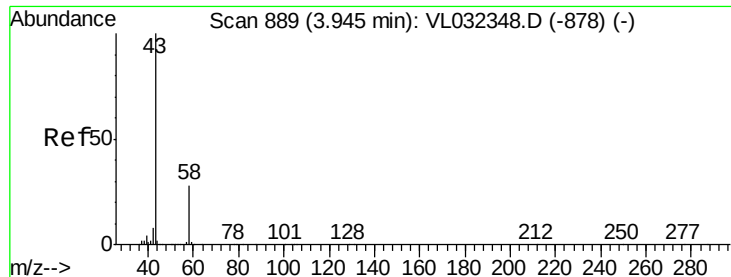
Tgt Ion: 43 Resp: 65756

Ion Ratio Lower Upper

43 100

57 51.9 39.5 59.3

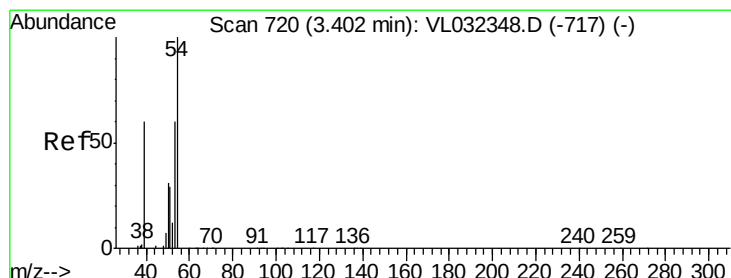
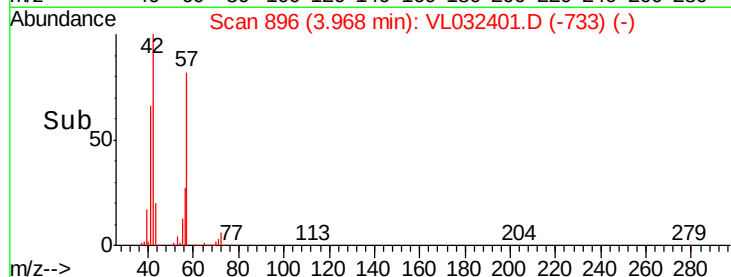
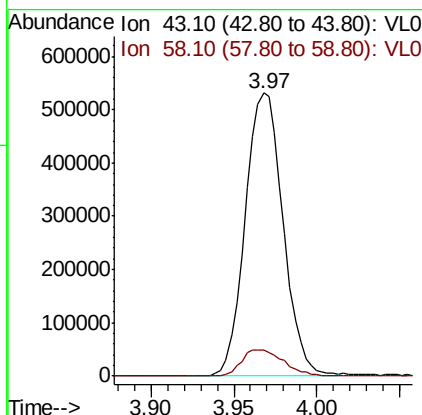
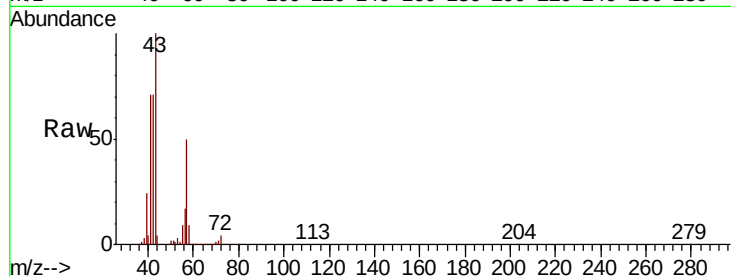




#15
Acetone
Concen: 5.005 ppbv
RT: 3.97 min Scan# 896
Delta R.T. 0.02 min
Lab File: VL032401.D
Acq: 17 Aug 2018 10:05

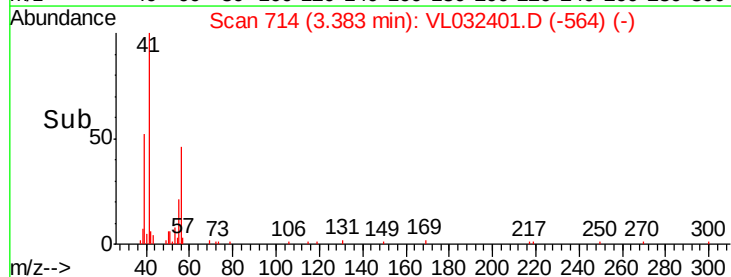
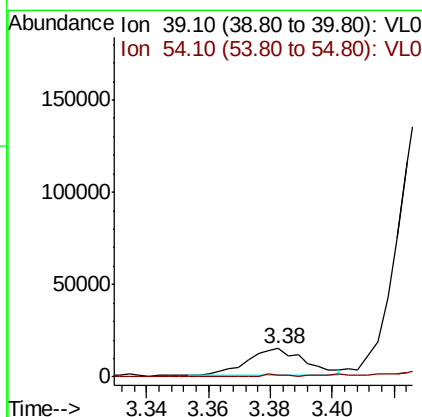
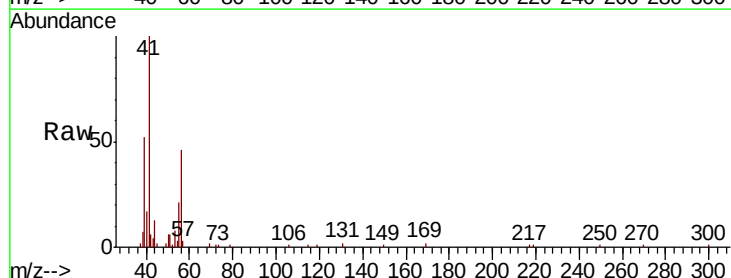
Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL2

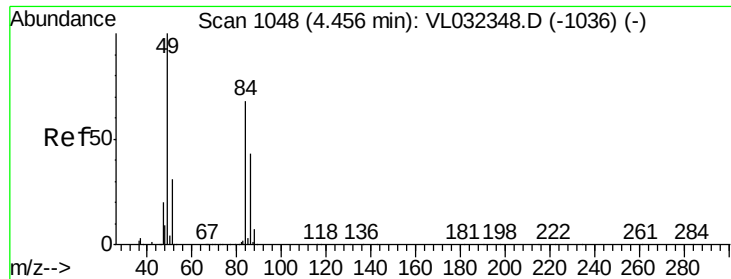
Tgt Ion: 43 Resp: 839979
Ion Ratio Lower Upper
43 100
58 10.9 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.284 ppbv
RT: 3.38 min Scan# 714
Delta R.T. -0.02 min
Lab File: VL032401.D
Acq: 17 Aug 2018 10:05

Tgt Ion: 39 Resp: 19701
Ion Ratio Lower Upper
39 100
54 0.0 85.5 128.3#

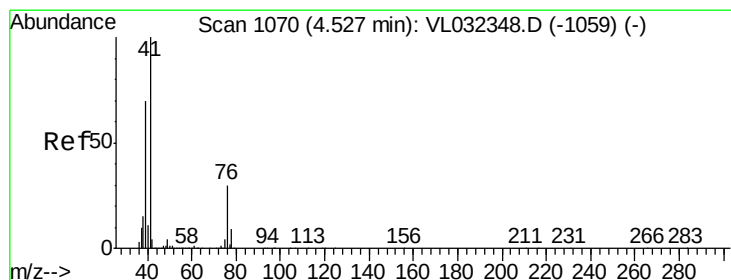
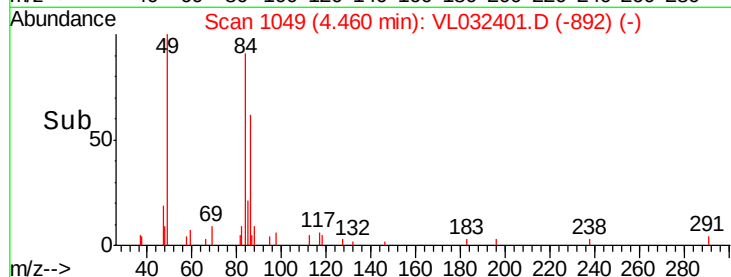
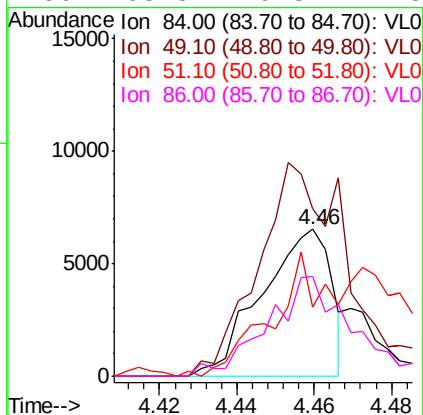
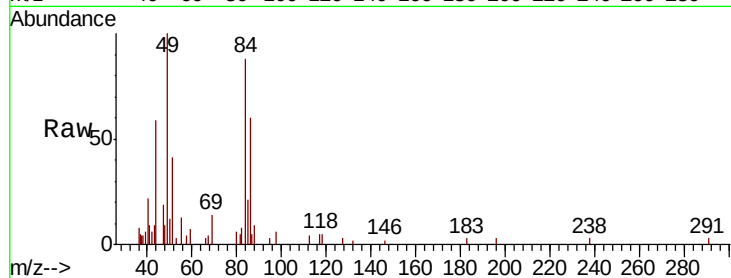




#20
Methylene Chloride
Concen: 0.129 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. 0.00 min
Lab File: VL032401.D
Acq: 17 Aug 2018 10:05

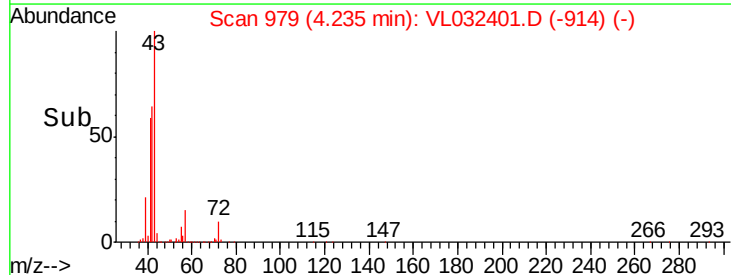
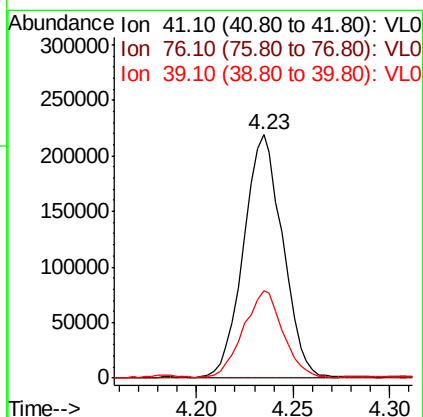
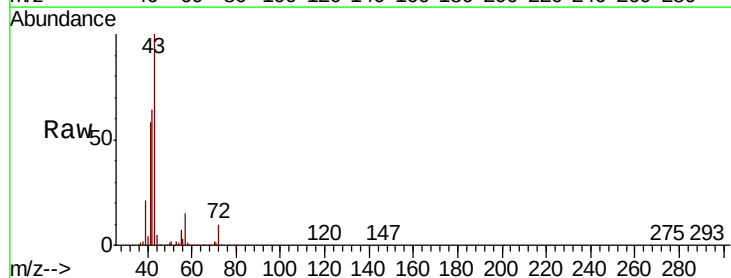
Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL2

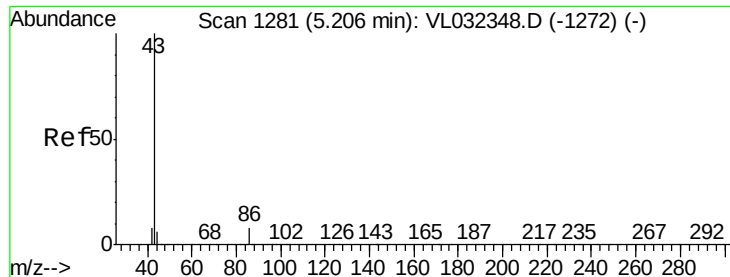
Tgt Ion: 84 Resp: 8149
Ion Ratio Lower Upper
84 100
49 114.0 117.3 175.9#
51 43.6 36.6 55.0
86 68.3 49.8 74.8



#21
Allyl Chloride
Concen: 2.896 ppbv
RT: 4.23 min Scan# 979
Delta R.T. -0.29 min
Lab File: VL032401.D
Acq: 17 Aug 2018 10:05

Tgt Ion: 41 Resp: 306753
Ion Ratio Lower Upper
41 100
76 0.0 22.9 34.3#
39 36.6 57.6 86.4#





#23

Vinyl Acetate

Concen: 0.168 ppbv

RT: 5.19 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL032401.D

Acq: 17 Aug 2018 10:05

Instrument :

MSVOA_L

ClientSampleId :

SG06-MIVIDL2

Tgt Ion: 43 Resp: 48727

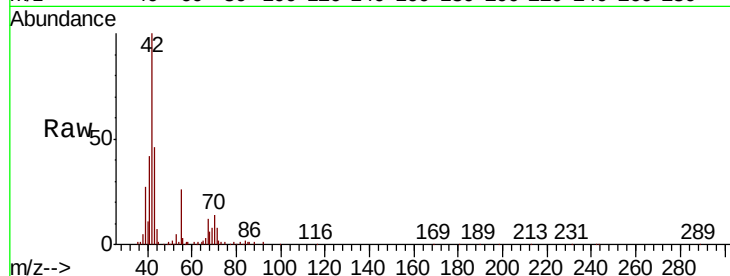
Ion Ratio Lower Upper

43 100

86 2.2 5.5 8.3#

42 218.6 7.0 10.6#

44 5.8 4.6 6.8

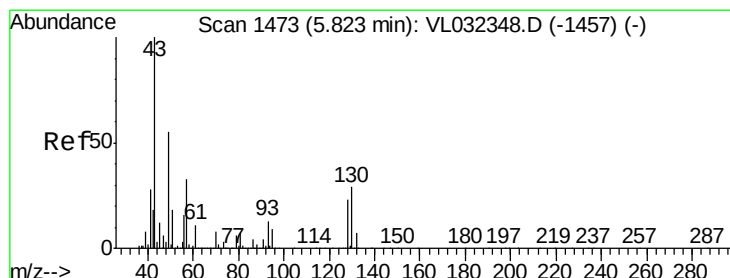
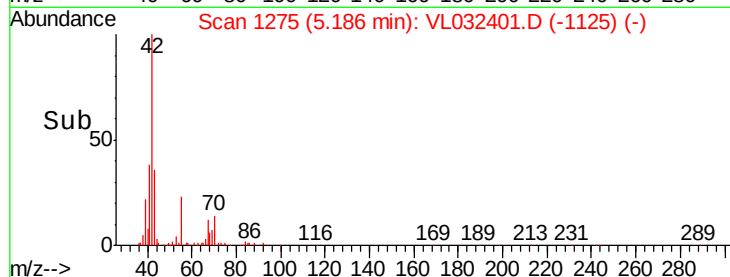
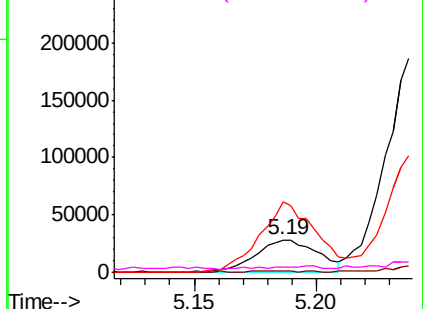


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.508 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. 0.01 min

Lab File: VL032401.D

Acq: 17 Aug 2018 10:05

Tgt Ion: 43 Resp: 182626

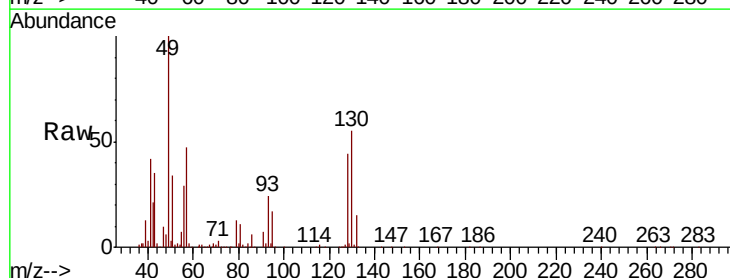
Ion Ratio Lower Upper

43 100

45 0.7 7.9 11.9#

61 0.0 7.4 11.2#

70 2.1 5.8 8.6#

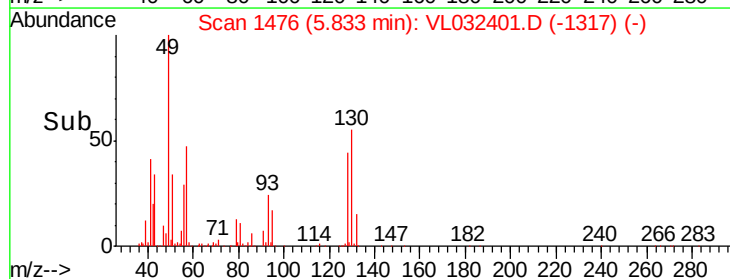
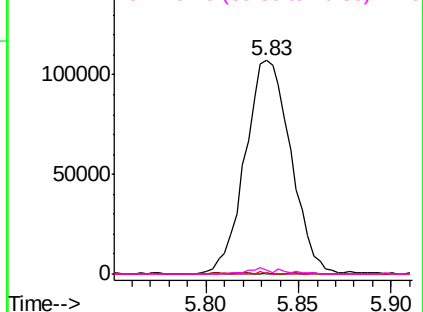


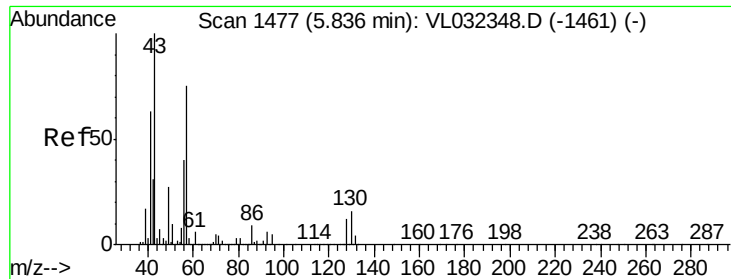
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

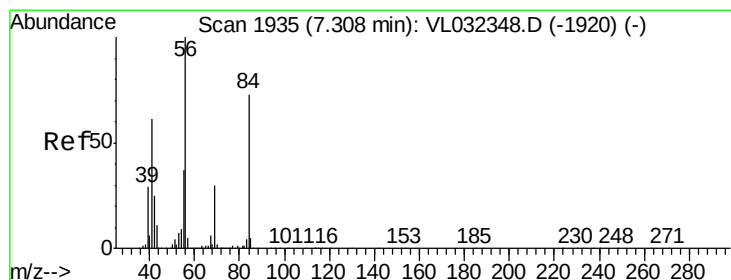
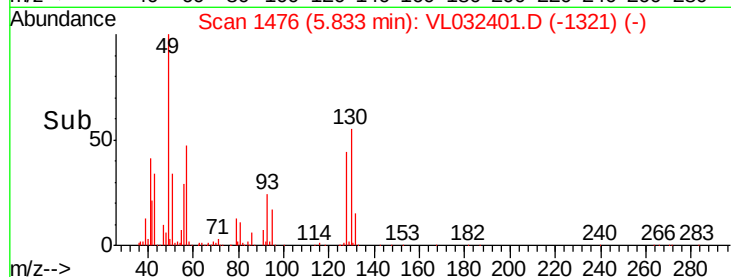
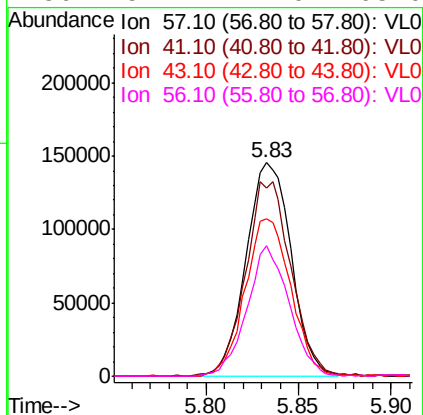
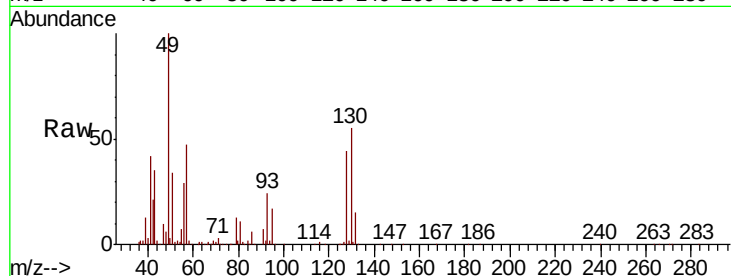




#26
Hexane
Concen: 1.533 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032401.D
Acq: 17 Aug 2018 10:05

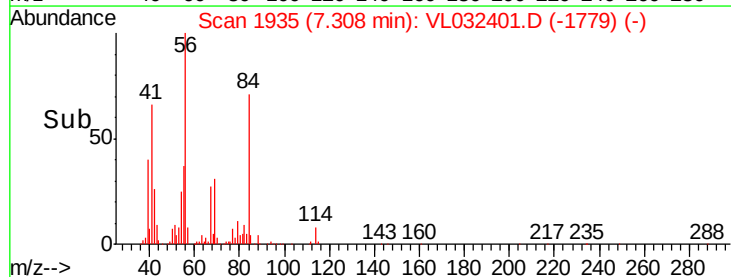
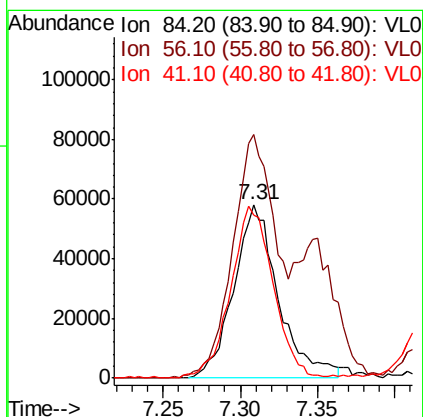
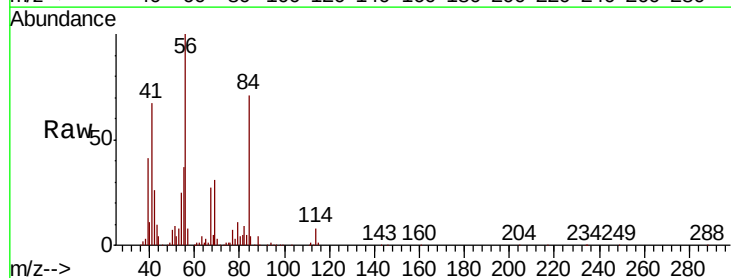
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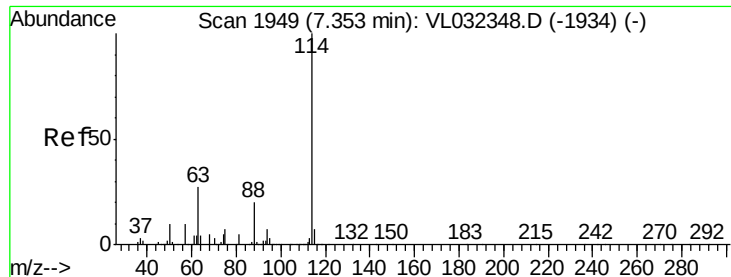
Tgt Ion:	57	Resp:	245806
Ion	Ratio	Lower	Upper
57	100		
41	92.4	68.0	102.0
43	75.5	175.3	262.9#
56	57.4	42.0	63.0



#30
Cyclohexane
Concen: 0.940 ppbv
RT: 7.31 min Scan# 1935
Delta R.T. 0.00 min
Lab File: VL032401.D
Acq: 17 Aug 2018 10:05

Tgt Ion:	84	Resp:	114761
Ion	Ratio	Lower	Upper
84	100		
56	208.8	115.7	173.5#
41	95.3	67.9	101.9

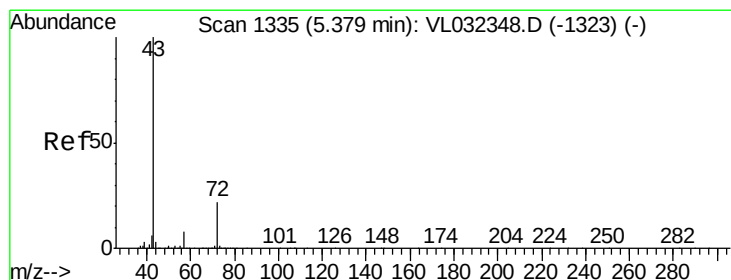
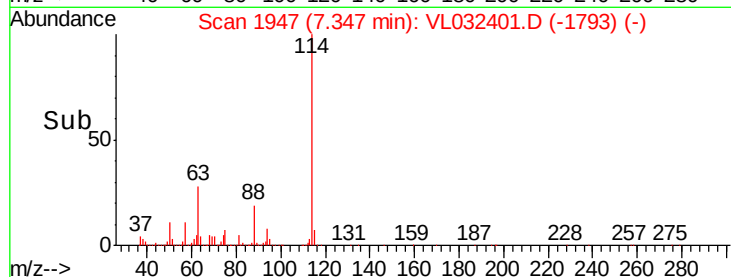
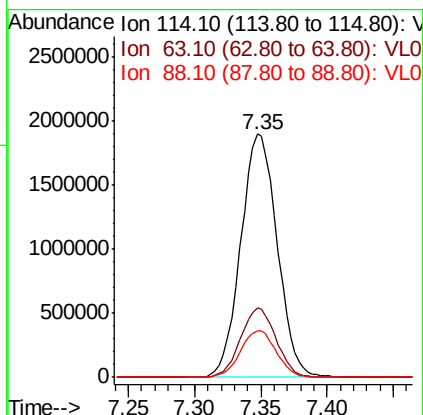
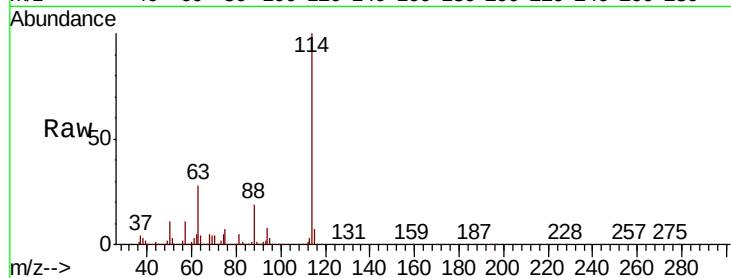




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: VL032401.D
 Acq: 17 Aug 2018 10:05

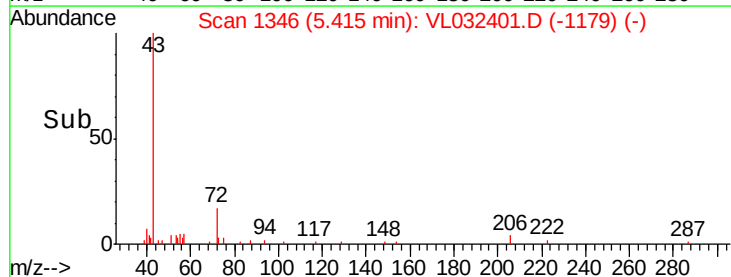
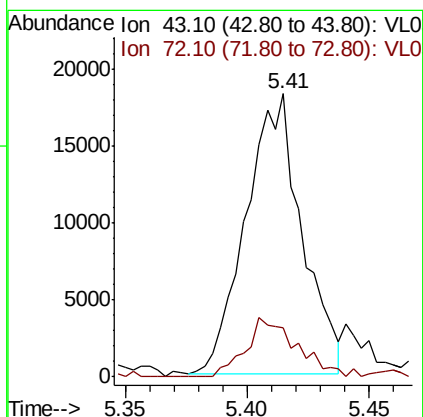
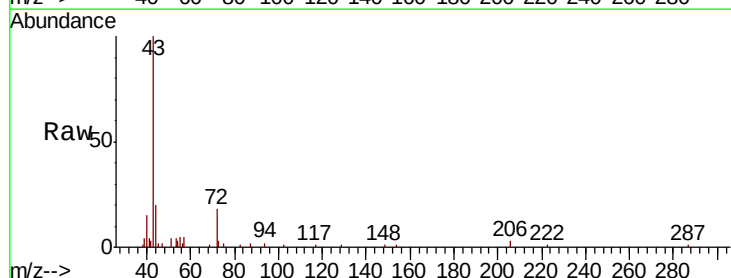
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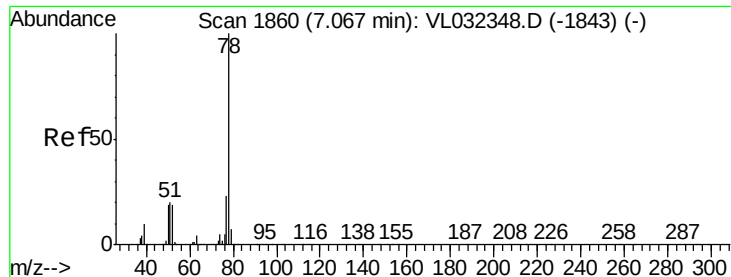
Tgt Ion:114 Resp: 3628510
 Ion Ratio Lower Upper
 114 100
 63 28.0 22.0 33.0
 88 19.0 15.3 22.9



#34
 2-Butanone
 Concen: 0.117 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. 0.04 min
 Lab File: VL032401.D
 Acq: 17 Aug 2018 10:05

Tgt Ion: 43 Resp: 28921
 Ion Ratio Lower Upper
 43 100
 72 20.8 17.9 26.9





#36

Benzene

Concen: 0.046 ppbv

RT: 7.05 min Scan# 1856

Delta R.T. -0.01 min

Lab File: VL032401.D

Acq: 17 Aug 2018 10:05

Instrument :

MSVOA_L

ClientSampleId :

SG06-MIVIDL2

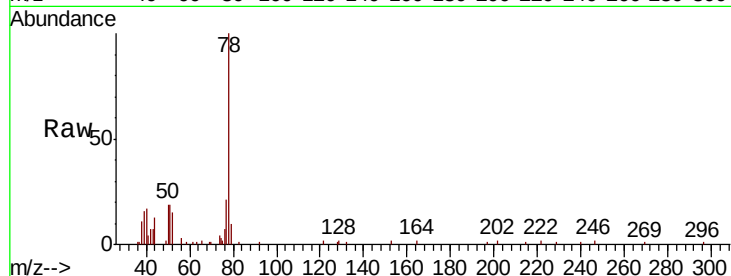
Tgt Ion: 78 Resp: 14205

Ion Ratio Lower Upper

78 100

77 20.8 18.0 27.0

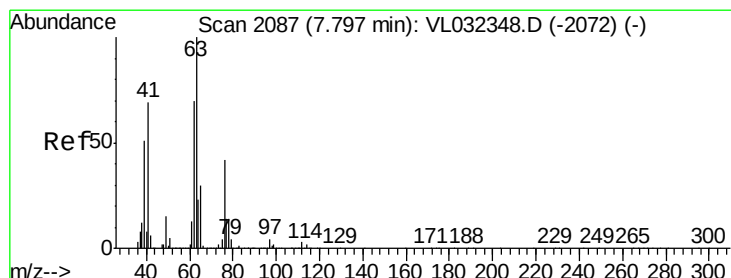
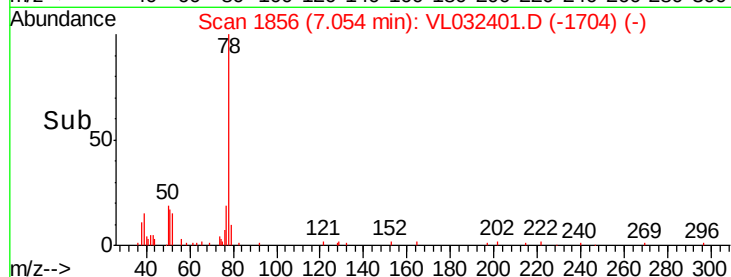
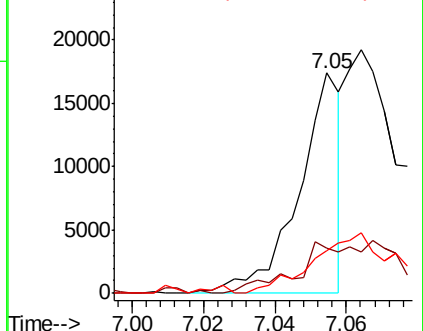
50 19.7 15.1 22.7



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



#39

1,2-Dichloropropane

Concen: 7.854 ppbv

RT: 7.35 min Scan# 1947

Delta R.T. -0.45 min

Lab File: VL032401.D

Acq: 17 Aug 2018 10:05

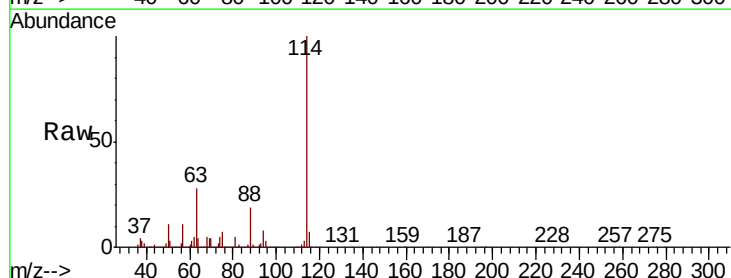
Tgt Ion: 63 Resp: 1009250

Ion Ratio Lower Upper

63 100

41 0.0 55.5 83.3#

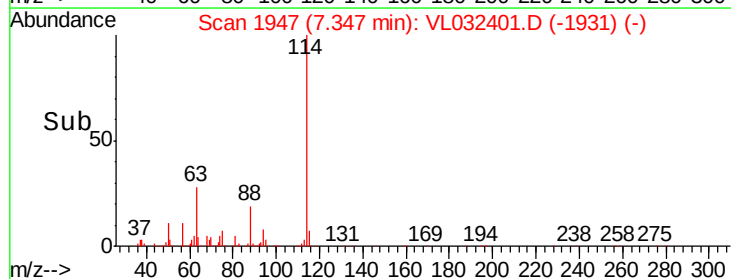
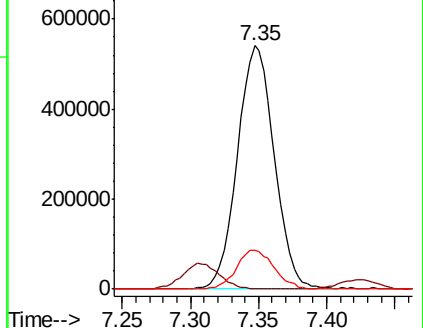
62 16.0 56.3 84.5#

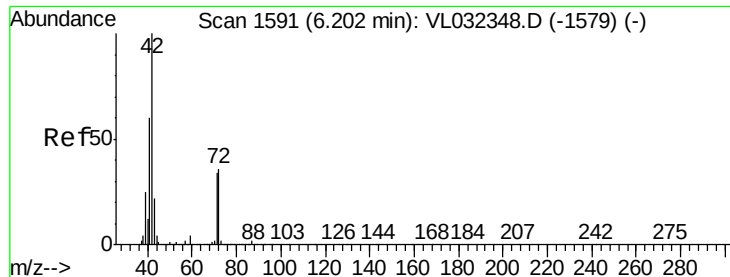


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.050 ppbv

RT: 6.47 min Scan# 1673

Delta R.T. 0.26 min

Lab File: VL032401.D

Acq: 17 Aug 2018 10:05

Instrument :

MSVOA_L

ClientSampleId :

SG06-MIVIDL2

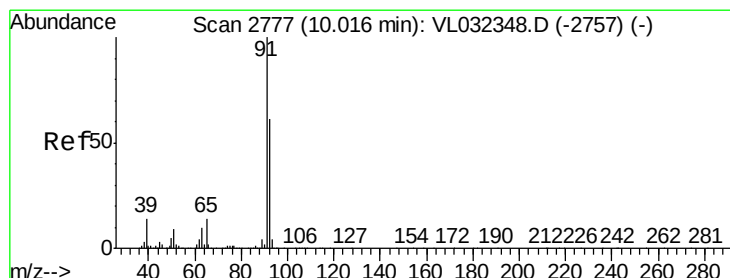
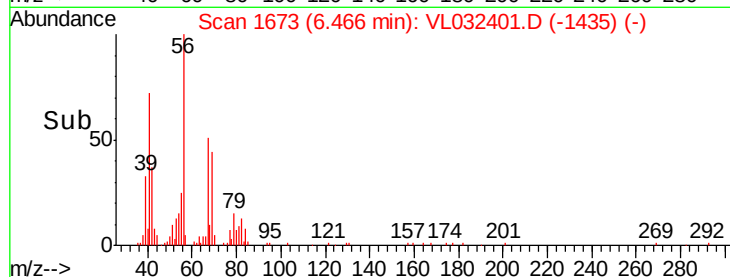
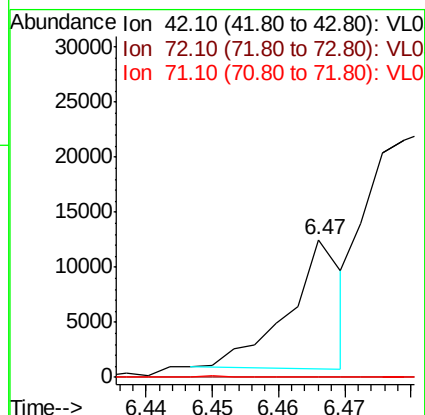
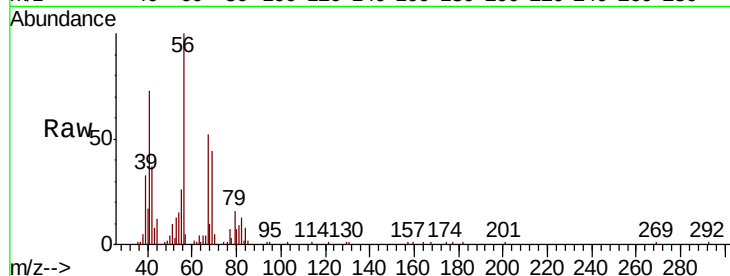
Tgt Ion: 42 Resp: 6628

Ion Ratio Lower Upper

42 100

72 3.1 29.8 44.6#

71 0.0 28.2 42.2#



#53

Toluene

Concen: 0.196 ppbv

RT: 10.01 min Scan# 2775

Delta R.T. -0.01 min

Lab File: VL032401.D

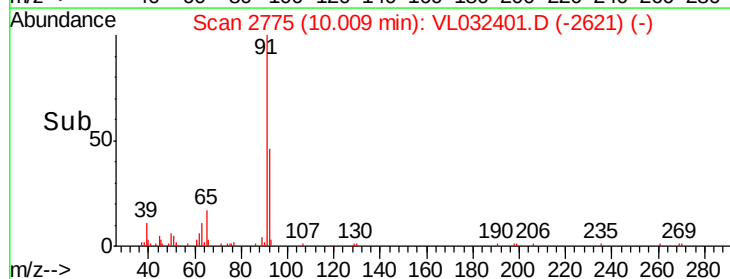
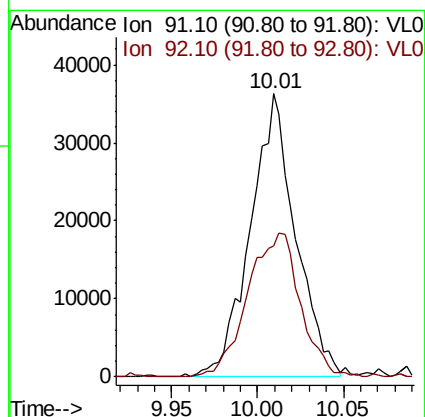
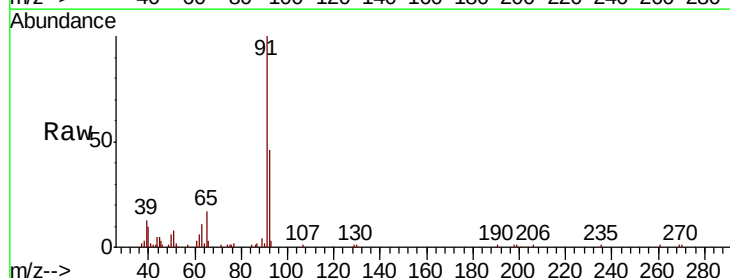
Acq: 17 Aug 2018 10:05

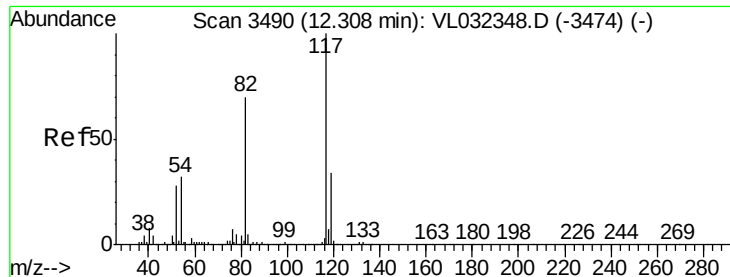
Tgt Ion: 91 Resp: 66129

Ion Ratio Lower Upper

91 100

92 59.3 48.7 73.1

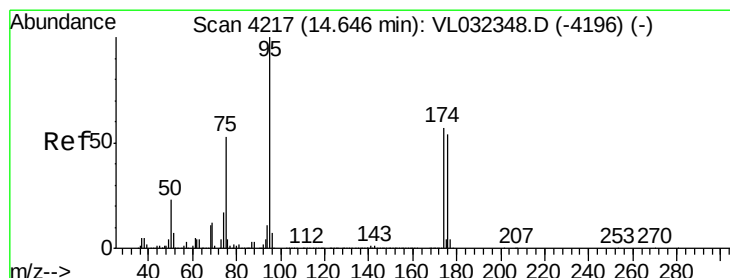
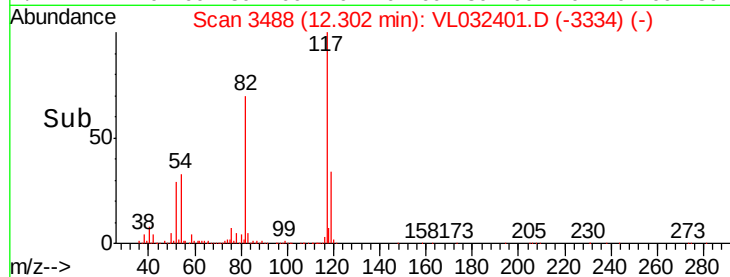
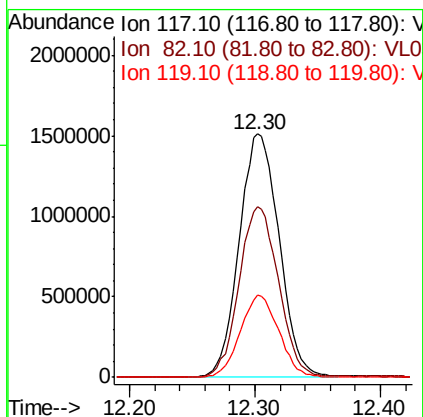
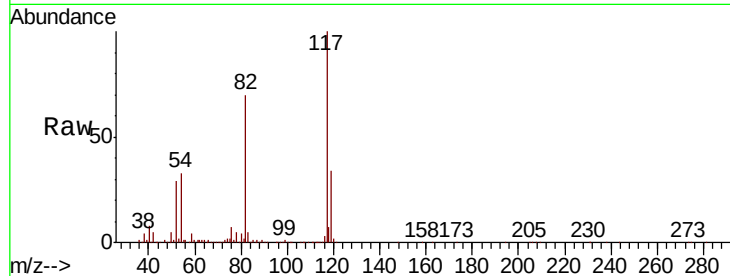




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3488
Delta R.T. -0.01 min
Lab File: VL032401.D
Acq: 17 Aug 2018 10:05

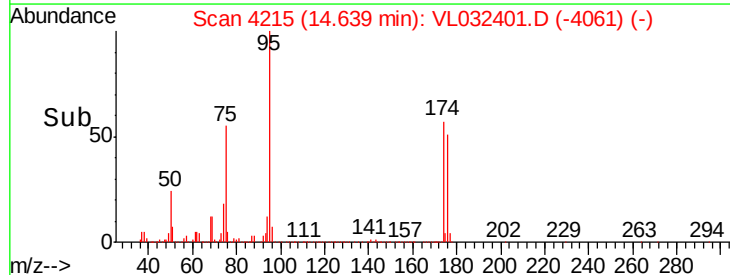
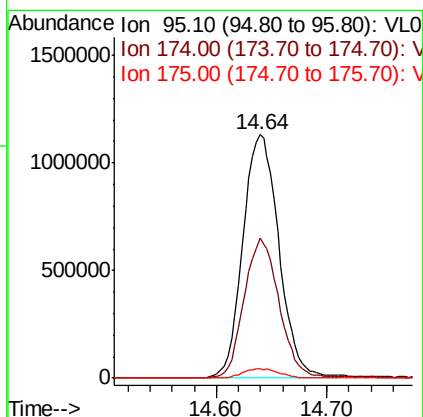
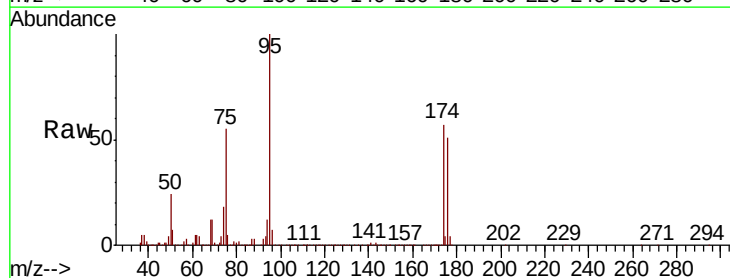
Instrument :
MSVOA_L
ClientSampleId :
SG06-MIVIDL2

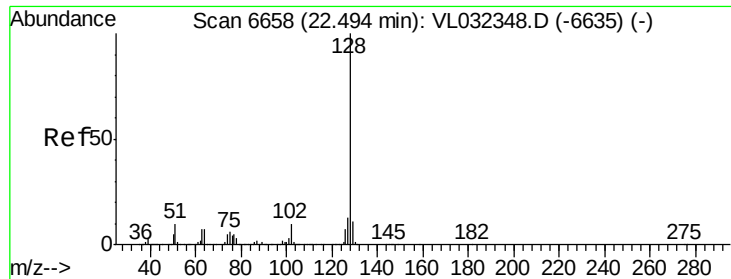
Tgt Ion: 117 Resp: 3344077
Ion Ratio Lower Upper
117 100
82 69.2 55.1 82.7
119 32.6 46.0 69.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.052 ppbv
RT: 14.64 min Scan# 4215
Delta R.T. -0.01 min
Lab File: VL032401.D
Acq: 17 Aug 2018 10:05

Tgt Ion: 95 Resp: 2564567
Ion Ratio Lower Upper
95 100
174 56.8 46.2 69.4
175 4.0 3.4 5.0





#79

Naphthalene

Concen: 0.328 ppbv

RT: 22.48 min Scan# 6654

Delta R.T. -0.01 min

Lab File: VL032401.D

Acq: 17 Aug 2018 10:05

Instrument :

MSVOA_L

ClientSampleId :

SG06-MIVIDL2

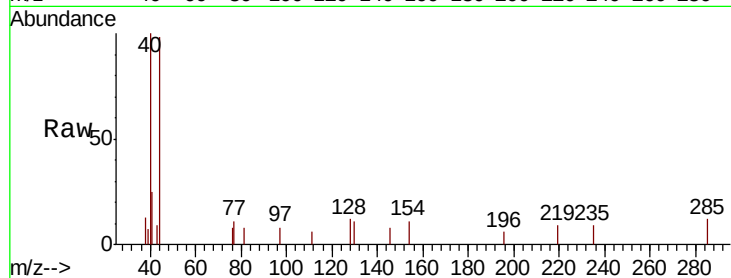
Tgt Ion:128 Resp: 104

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

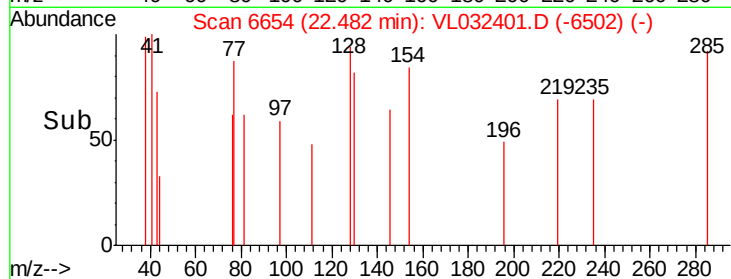
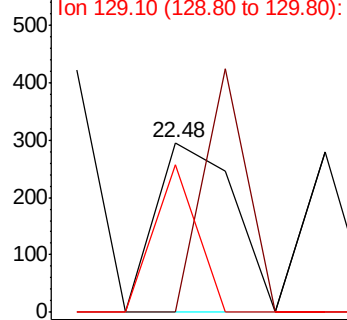
129 87.1 8.6 13.0#



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



Time-->