

Data File : VL034623.D
Acq On : 18 Feb 2020 14:21
Operator : SY/AP
Sample : L1532-01DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OADUP

Quant Time: Feb 19 06:03:18 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	855003	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1761911	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1715669	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 1477471 10.19 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.90%

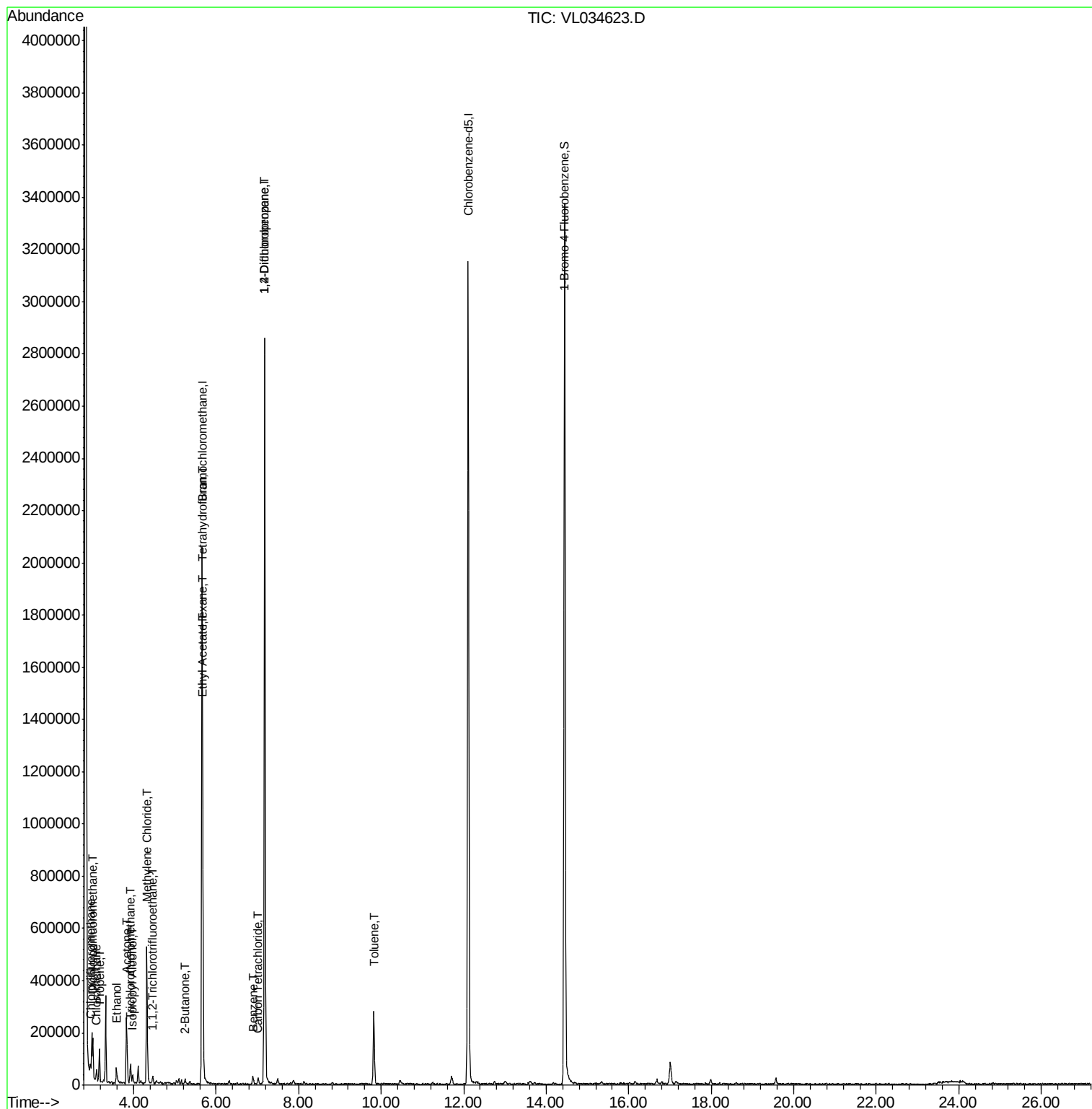
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	99923	0.531	ppbv #	82
3) Chlorodifluoromethane	2.95	51	41321	0.400	ppbv	91
4) Chloromethane	3.10	50	16766	0.265	ppbv #	86
9) Propene	3.17	41	26998	0.671	ppbv	98
11) Trichlorofluoromethane	3.93	101	44797	0.262	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.46	101	5748	0.051	ppbv #	14
13) Ethanol	3.58	45	48039	4.459	ppbv	91
15) Acetone	3.82	43	246280	1.960	ppbv	99
19) Isopropyl Alcohol	3.97	45	17140	0.234	ppbv #	1
20) Methylene Chloride	4.32	84	159295	3.329	ppbv	93
25) Ethyl Acetate	5.68	43	98503	0.484	ppbv #	75
26) Hexane	5.68	57	129148	1.516	ppbv #	38
34) 2-Butanone	5.24	43	13367	0.104	ppbv #	54
35) Carbon Tetrachloride	7.02	117	8980	0.053	ppbv #	81
36) Benzene	6.89	78	14461	0.092	ppbv #	86
39) 1,2-Dichloropropane	7.18	63	510585	7.861	ppbv #	20
41) Tetrahydrofuran	5.67	42	55220	0.827	ppbv #	49
53) Toluene	9.82	91	105020	0.610	ppbv #	21

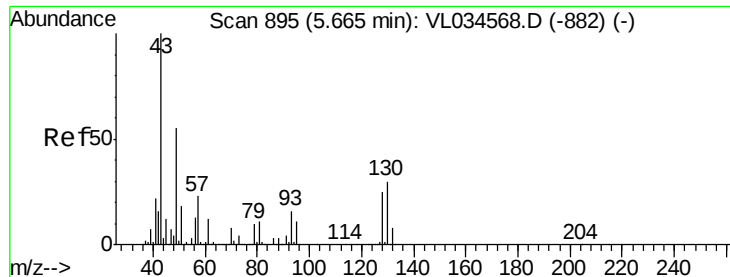
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

QADUP

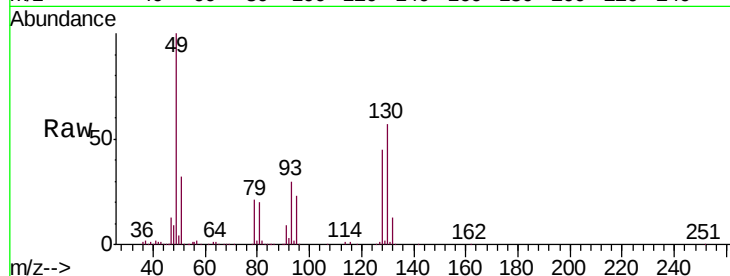
Tgt Ion: 49 Resp: 855003

Ion Ratio Lower Upper

49 100

128 46.3 22.7 68.1

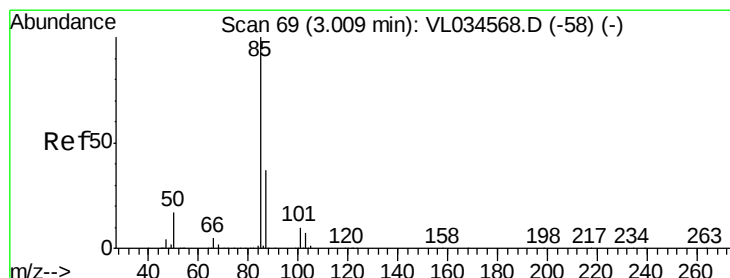
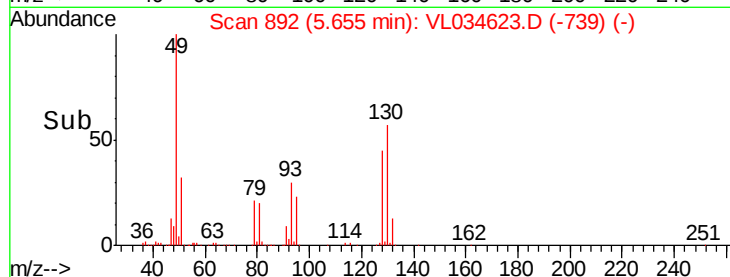
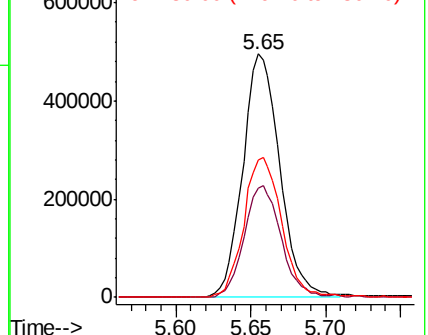
130 59.4 28.6 85.8



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



#2

Dichlorodifluoromethane

Concen: 0.531 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034623.D

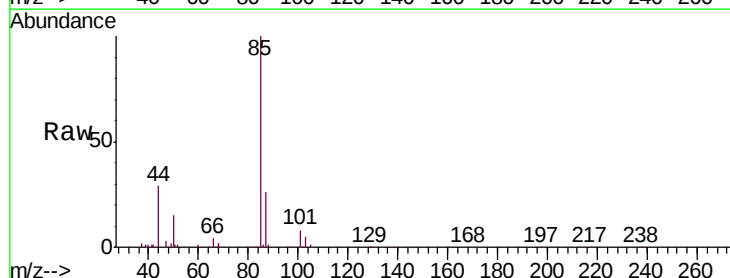
Acq: 18 Feb 2020 14:21

Tgt Ion: 85 Resp: 99923

Ion Ratio Lower Upper

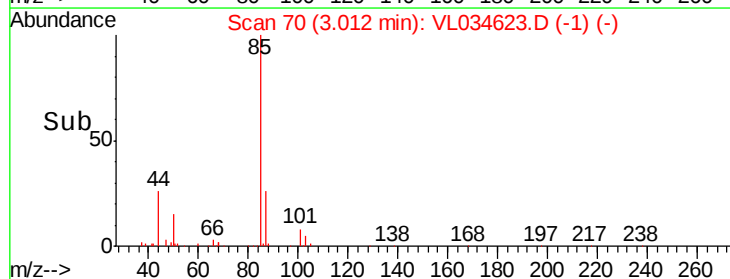
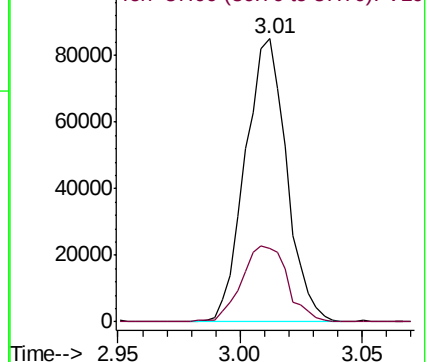
85 100

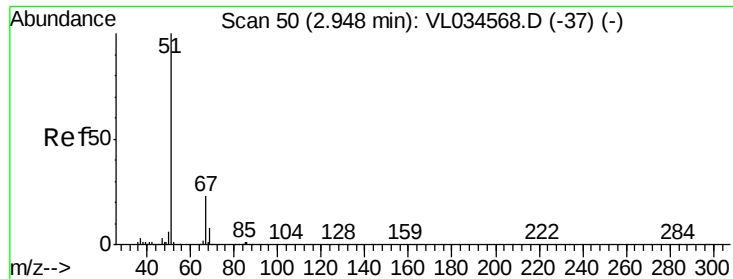
87 26.1 29.5 44.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.400 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034623.D

Acq: 18 Feb 2020 14:21

Instrument :

MSVOA_L

ClientSampleId :

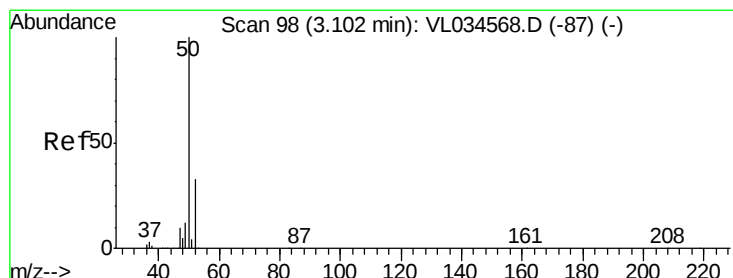
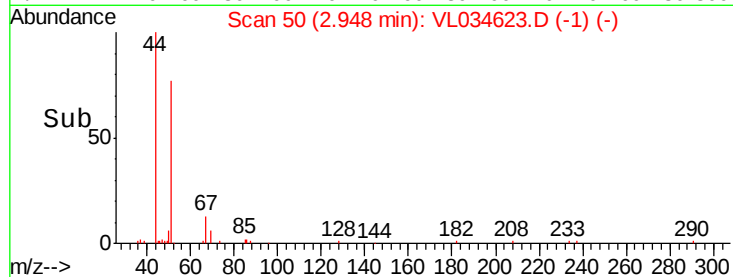
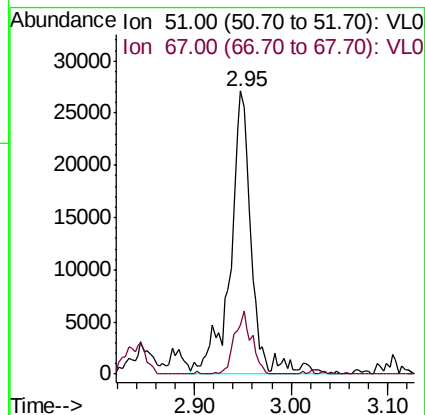
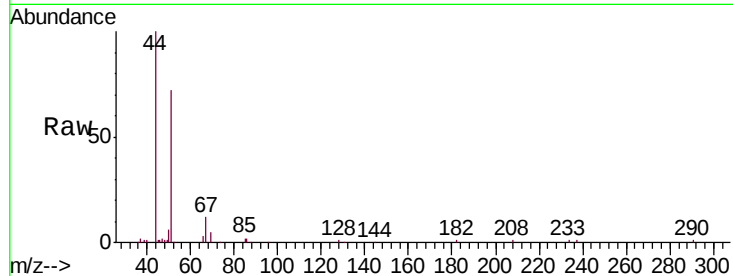
QADUP

Tgt Ion: 51 Resp: 41321

Ion Ratio Lower Upper

51 100

67 17.9 17.8 26.8



#4

Chloromethane

Concen: 0.265 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034623.D

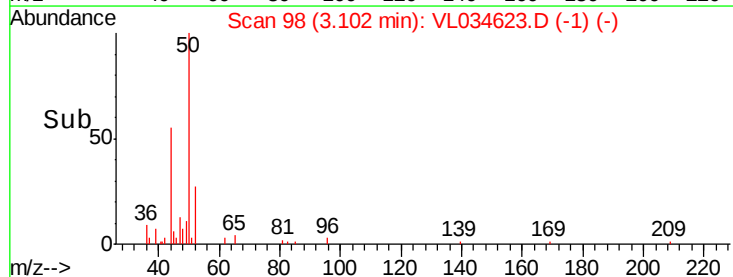
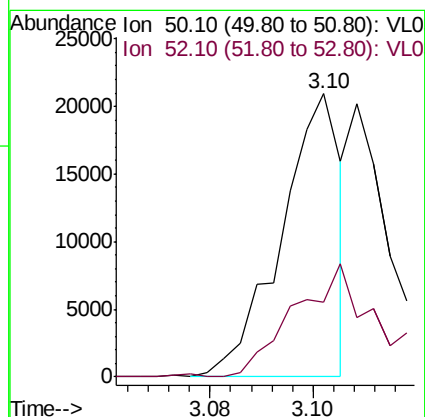
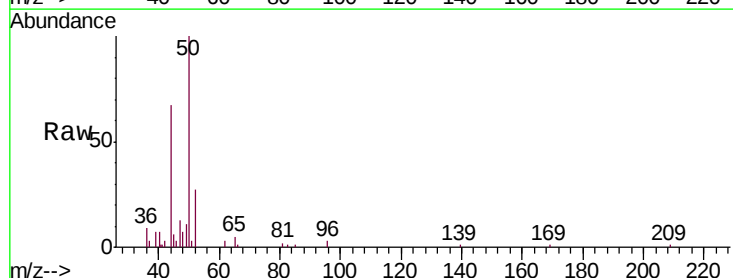
Acq: 18 Feb 2020 14:21

Tgt Ion: 50 Resp: 16766

Ion Ratio Lower Upper

50 100

52 25.5 26.6 39.8#





#9

Propene

Concen: 0.671 ppbv

RT: 3.17 min Scan# 118

Delta R.T. 0.20 min

Lab File: VL034623.D

Acq: 18 Feb 2020 14:21

Instrument :

MSVOA_L

ClientSampleId :

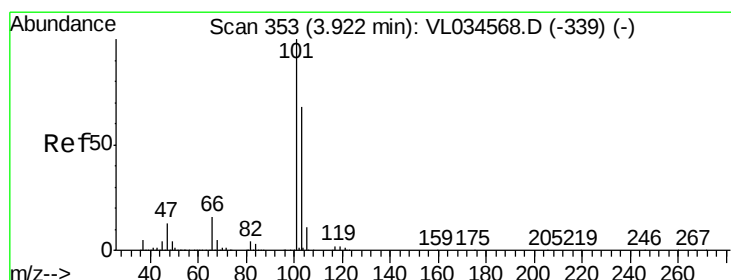
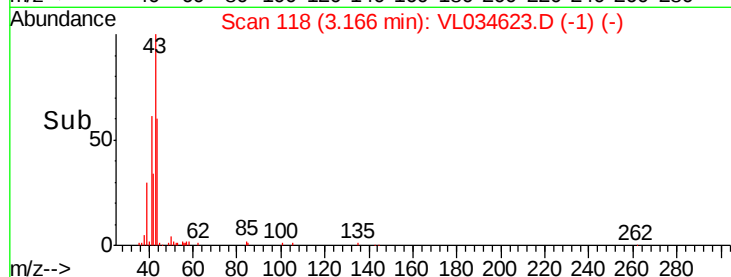
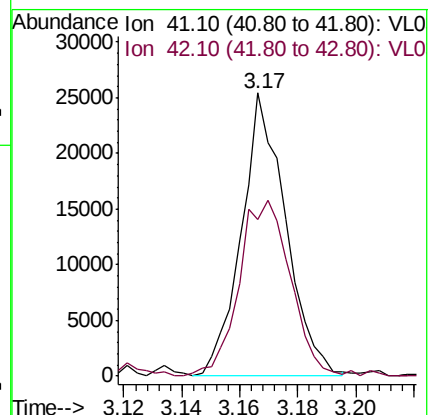
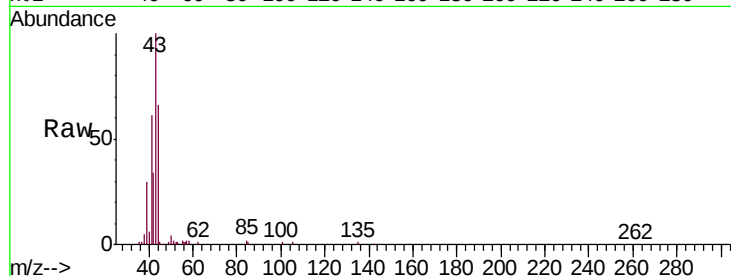
OADUP

Tgt Ion: 41 Resp: 26998

Ion Ratio Lower Upper

41 100

42 72.7 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.262 ppbv

RT: 3.93 min Scan# 354

Delta R.T. 0.00 min

Lab File: VL034623.D

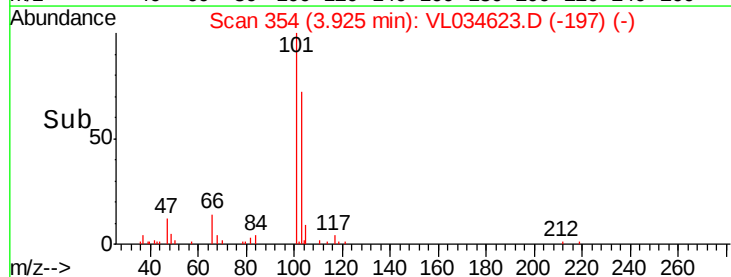
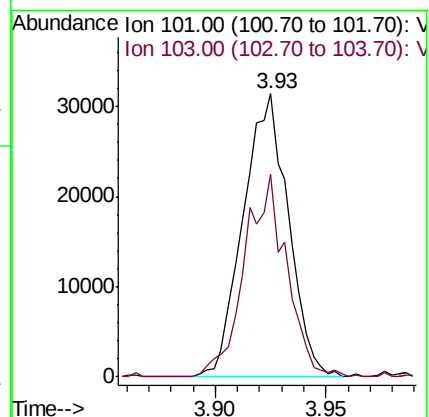
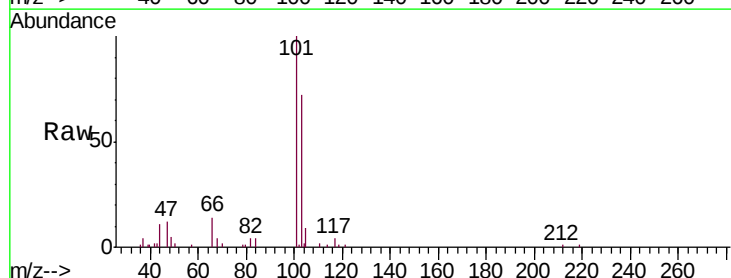
Acq: 18 Feb 2020 14:21

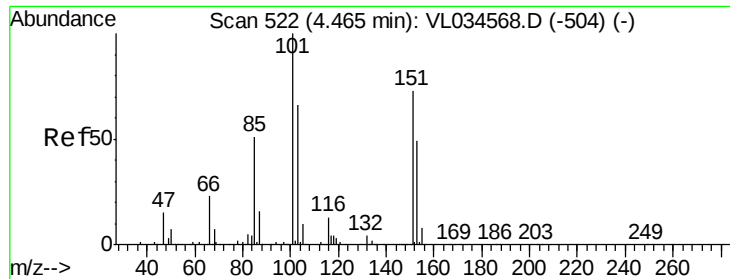
Tgt Ion: 101 Resp: 44797

Ion Ratio Lower Upper

101 100

103 71.5 54.4 81.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.051 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL034623.D

Acq: 18 Feb 2020 14:21

Instrument :

MSVOA_L

ClientSampleId :

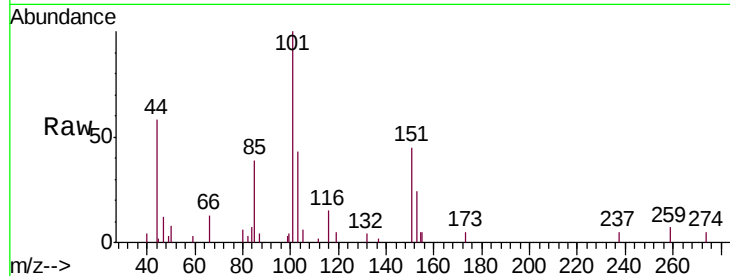
OADUP

Tgt Ion:101 Resp: 5748

Ion Ratio Lower Upper

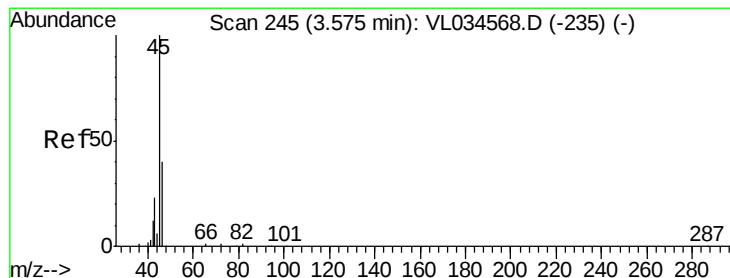
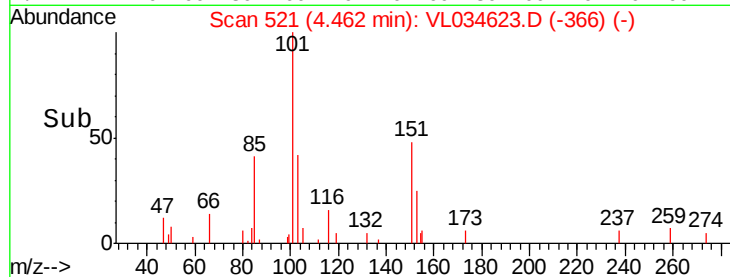
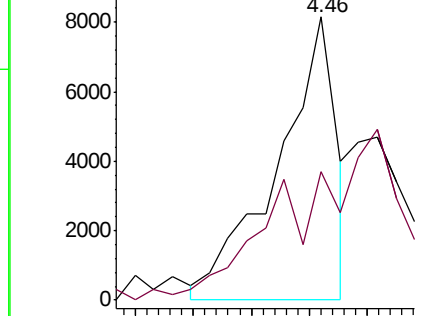
101 100

151 0.0 57.0 85.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 4.459 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.01 min

Lab File: VL034623.D

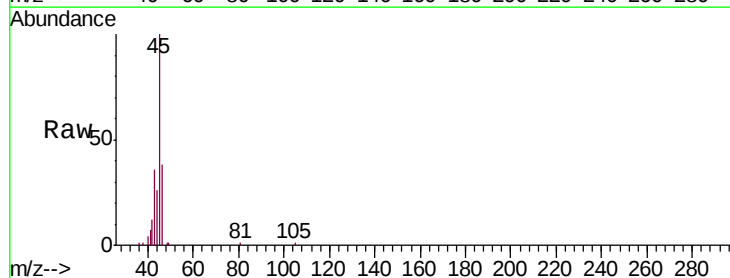
Acq: 18 Feb 2020 14:21

Tgt Ion: 45 Resp: 48039

Ion Ratio Lower Upper

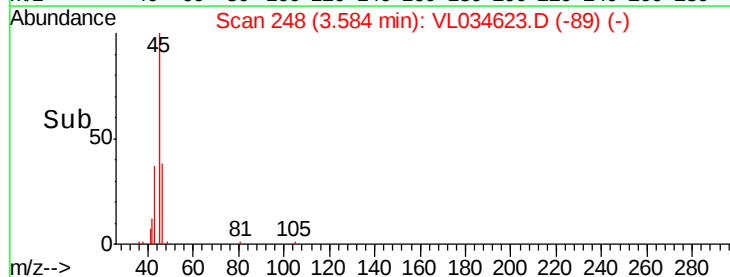
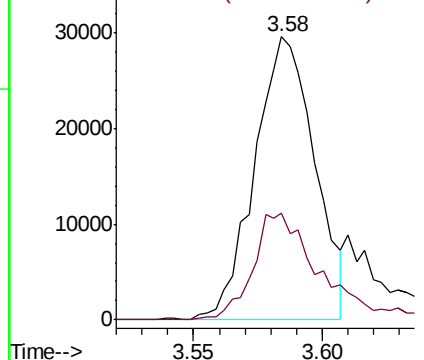
45 100

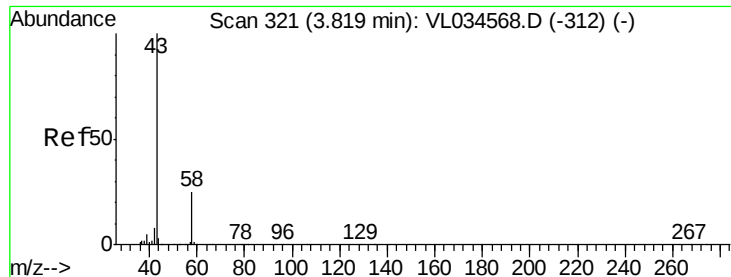
46 42.3 14.8 59.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.960 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034623.D

Acq: 18 Feb 2020 14:21

Instrument :

MSVOA_L

ClientSampleId :

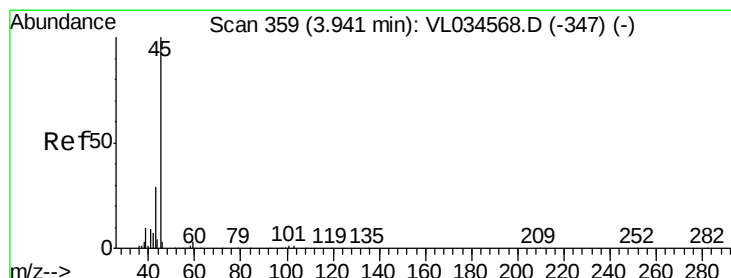
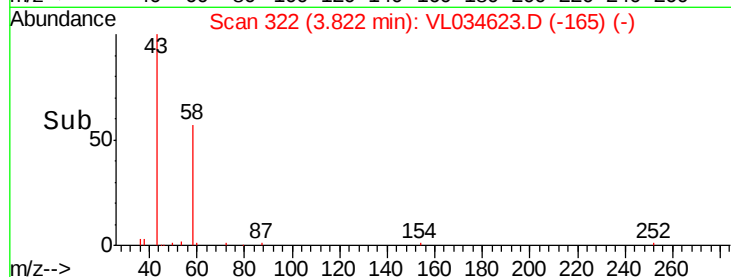
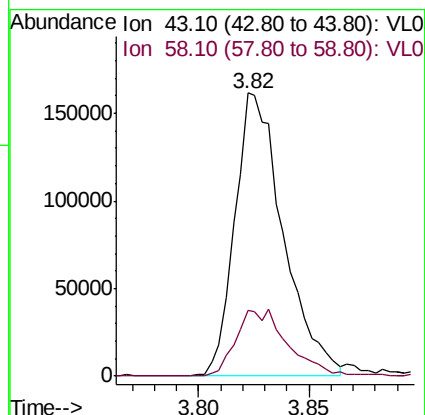
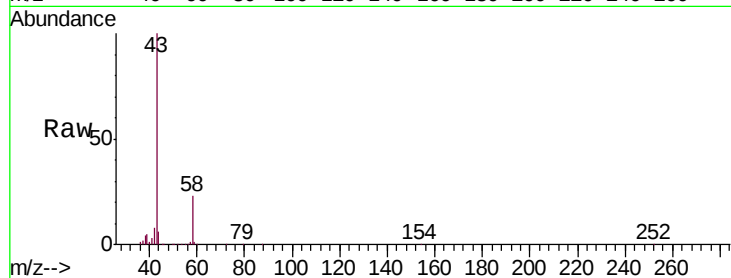
QADUP

Tgt Ion: 43 Resp: 246280

Ion Ratio Lower Upper

43 100

58 25.8 20.3 30.5



#19

Isopropyl Alcohol

Concen: 0.234 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.03 min

Lab File: VL034623.D

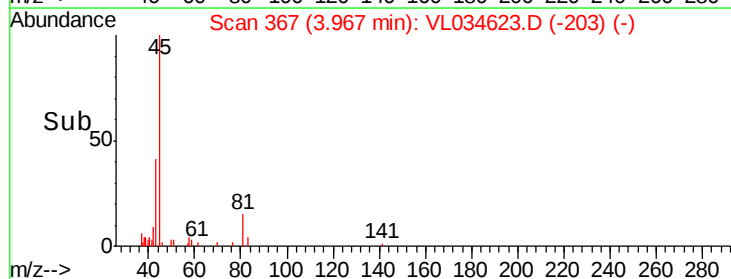
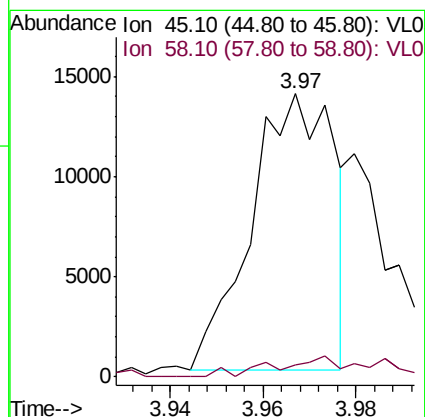
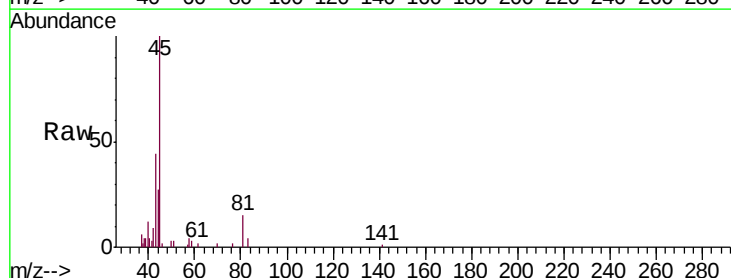
Acq: 18 Feb 2020 14:21

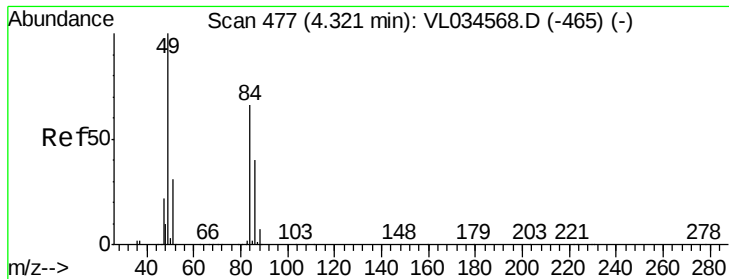
Tgt Ion: 45 Resp: 17140

Ion Ratio Lower Upper

45 100

58 370.5 1.7 2.5#

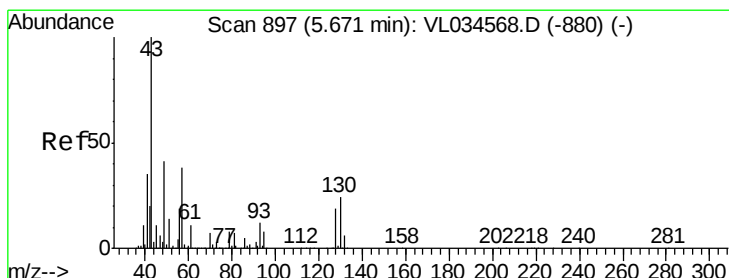
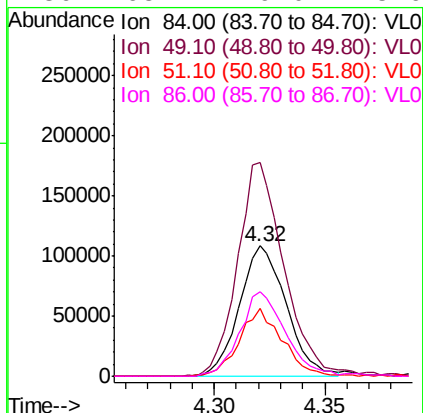
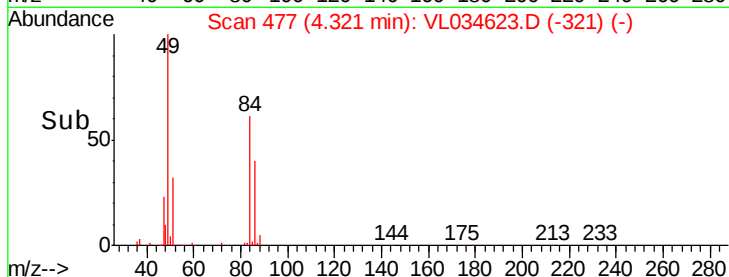
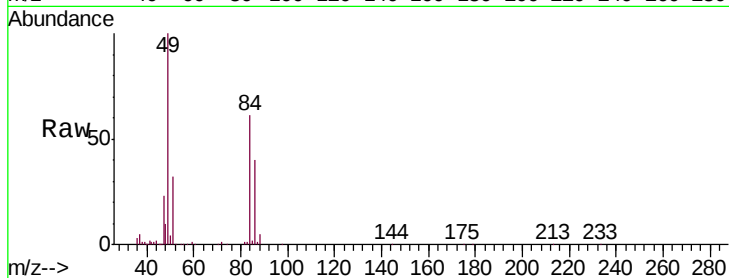




#20
Methylene Chloride
Concen: 3.329 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.00 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

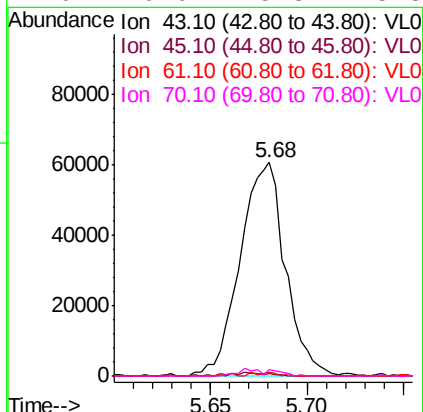
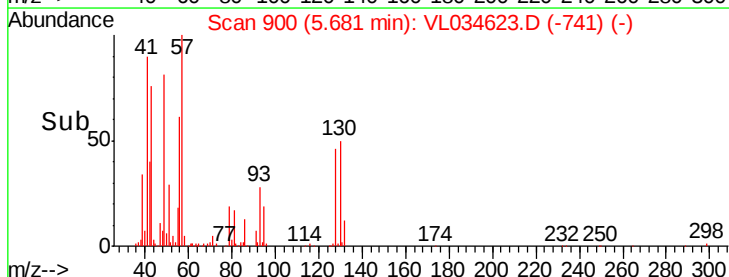
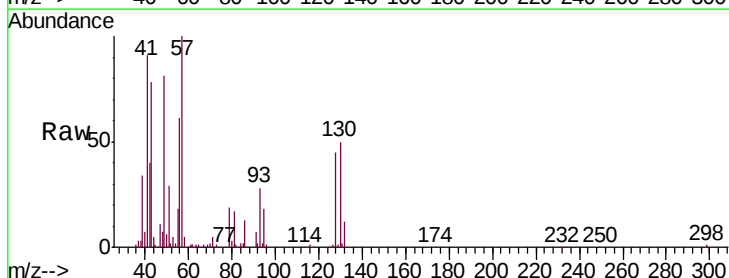
Instrument :
MSVOA_L
ClientSampleId :
QADUP

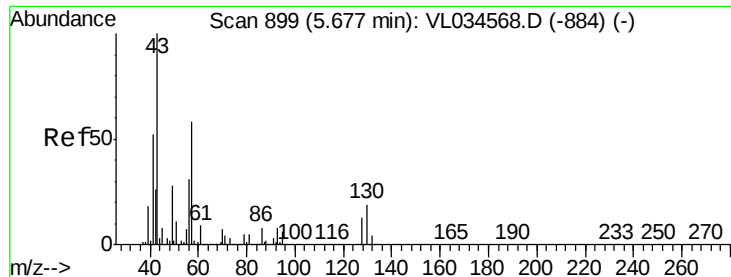
Tgt Ion:	84	Resp:	159295
Ion	Ratio	Lower	Upper
84	100		
49	163.2	122.4	183.6
51	52.3	38.6	57.8
86	65.1	49.0	73.6



#25
Ethyl Acetate
Concen: 0.484 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

Tgt Ion:	43	Resp:	98503
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.5	12.7#
61	1.0	7.8	11.6#
70	0.0	5.8	8.8#

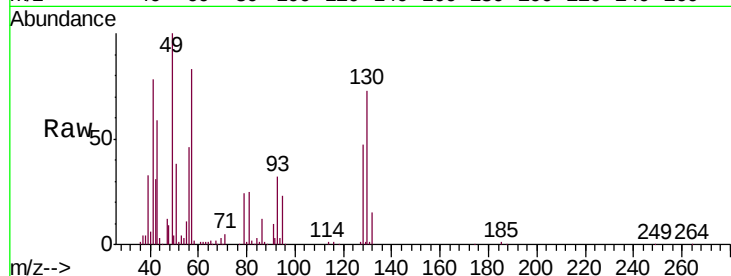




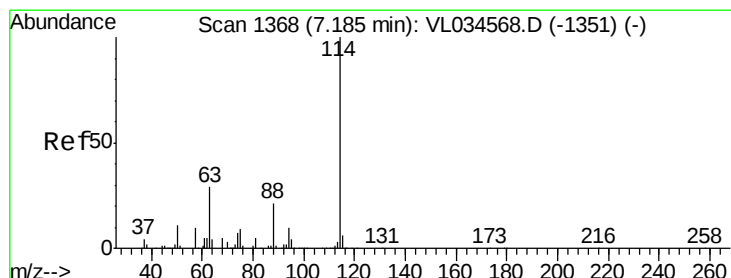
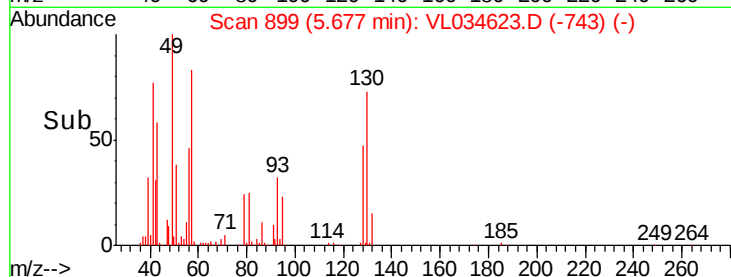
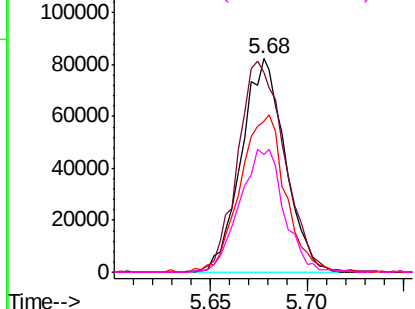
#26
Hexane
Concen: 1.516 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

Instrument :
MSVOA_L
ClientSampleId :
QADUP

Tgt Ion: 57 Resp: 129148
Ion Ratio Lower Upper
57 100
41 106.3 76.2 114.2
43 76.9 189.9 284.9#
56 59.1 43.6 65.4

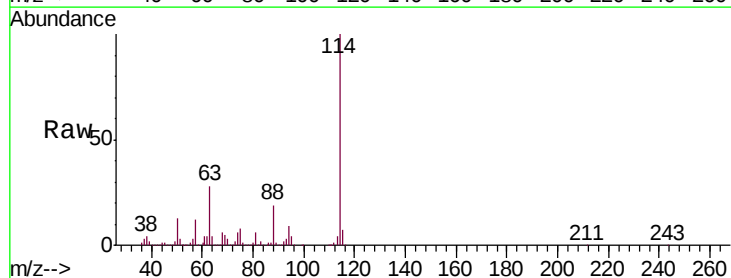


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

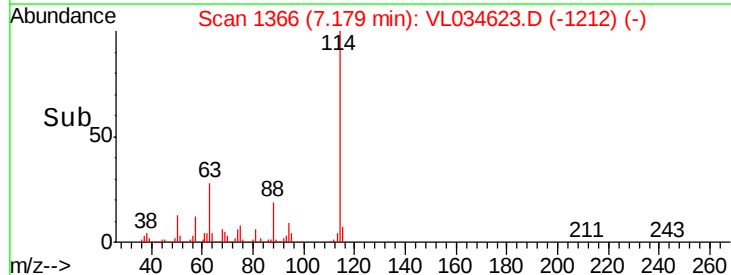
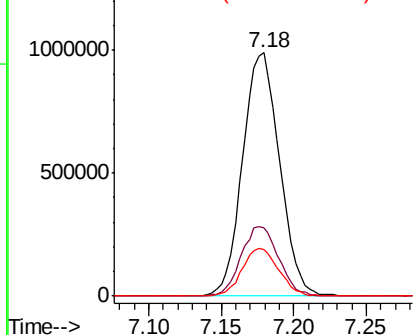


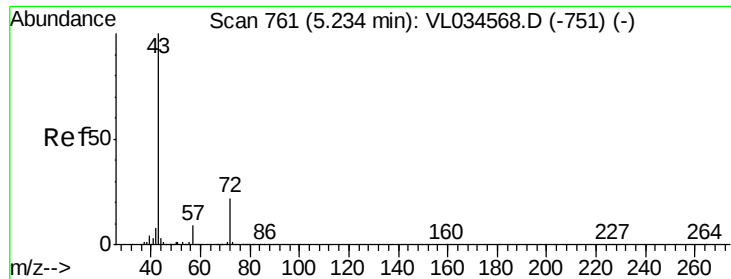
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

Tgt Ion: 114 Resp: 1761911
Ion Ratio Lower Upper
114 100
63 29.2 24.1 36.1
88 19.4 15.9 23.9



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

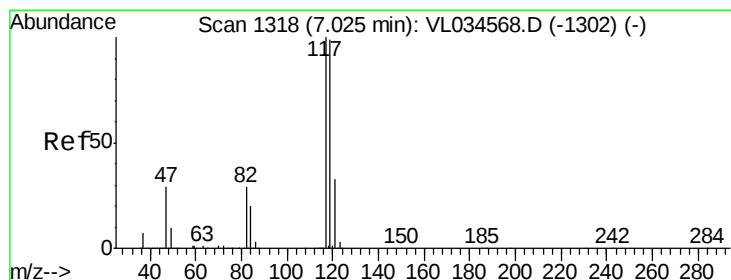
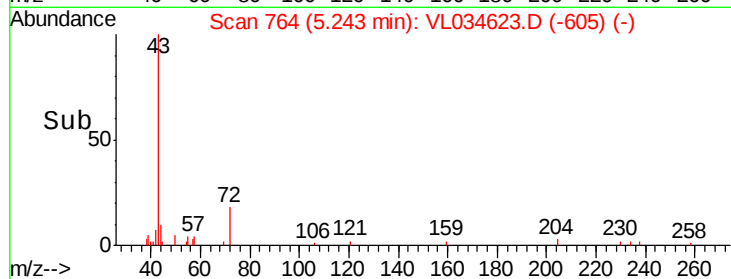
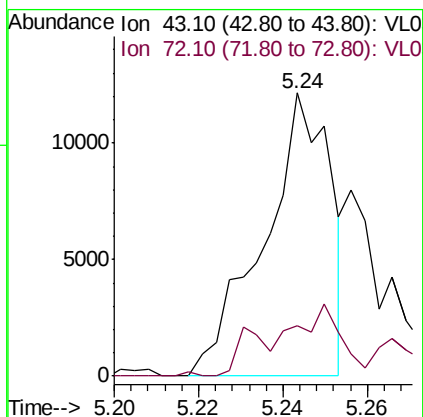
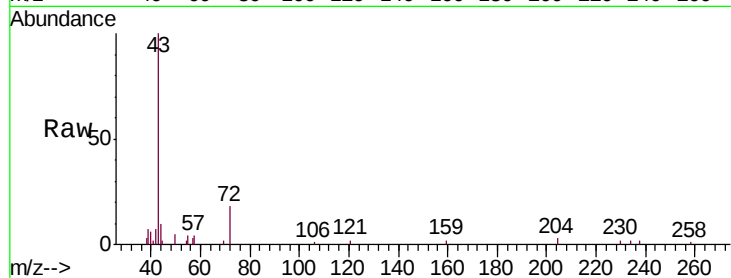




#34
2-Butanone
Concen: 0.104 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.01 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

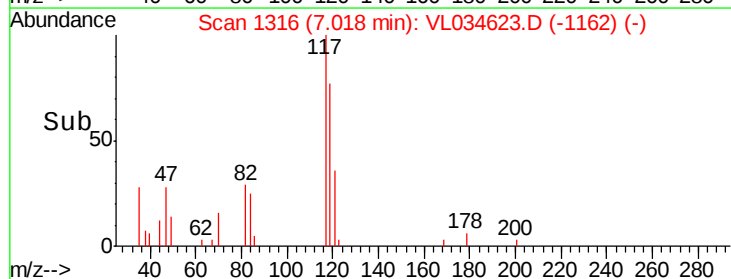
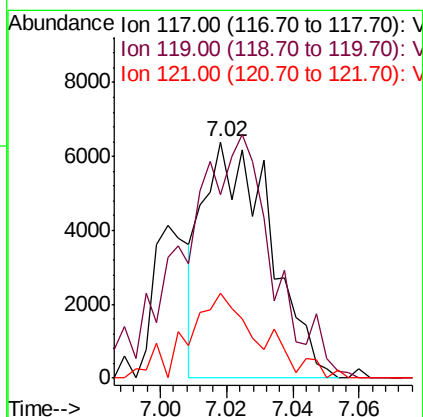
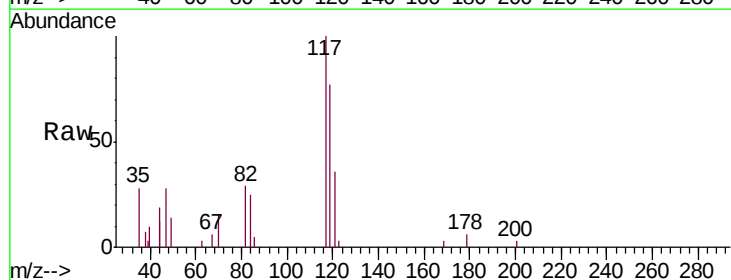
Instrument :
MSVOA_L
ClientSampleId :
QADUP

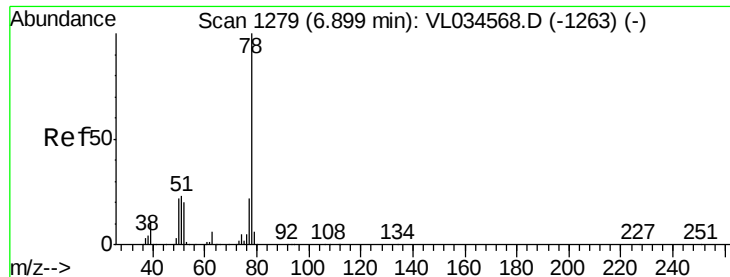
Tgt Ion: 43 Resp: 13367
Ion Ratio Lower Upper
43 100
72 0.0 17.2 25.8#



#35
Carbon Tetrachloride
Concen: 0.053 ppbv
RT: 7.02 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

Tgt Ion: 117 Resp: 8980
Ion Ratio Lower Upper
117 100
119 74.5 79.5 119.3#
121 32.6 26.2 39.2





#36

Benzene

Concen: 0.092 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL034623.D

Acq: 18 Feb 2020 14:21

Instrument :

MSVOA_L

ClientSampleId :

OADUP

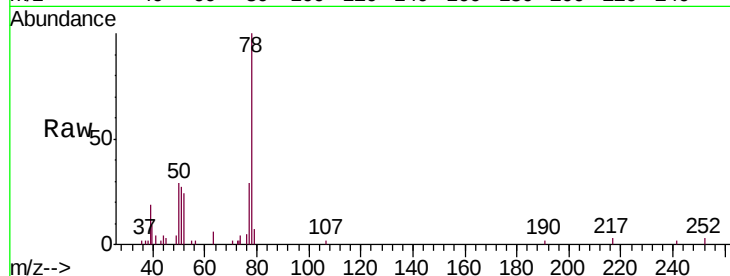
Tgt Ion: 78 Resp: 14461

Ion Ratio Lower Upper

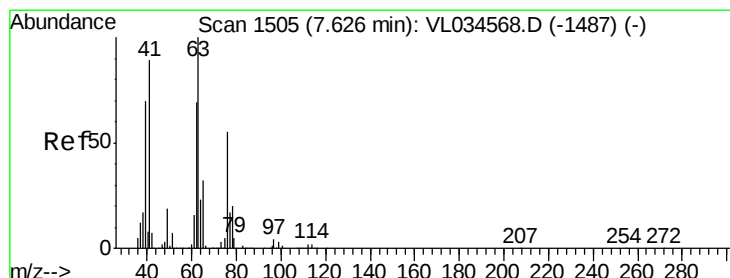
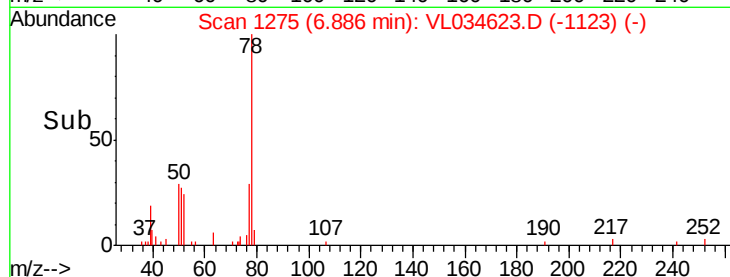
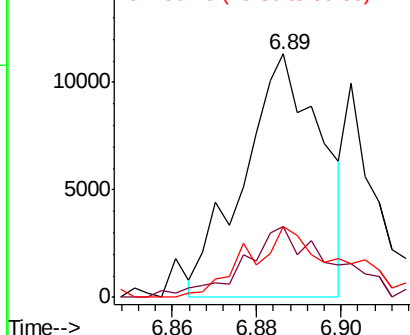
78 100

77 26.8 17.3 25.9#

50 29.6 17.4 26.2#



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: 7.861 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.45 min

Lab File: VL034623.D

Acq: 18 Feb 2020 14:21

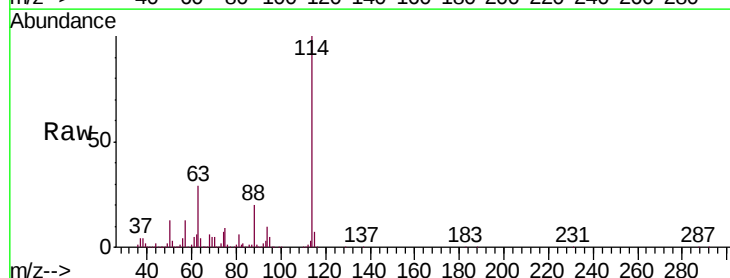
Tgt Ion: 63 Resp: 510585

Ion Ratio Lower Upper

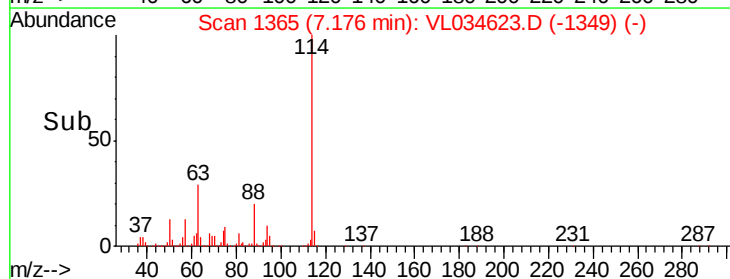
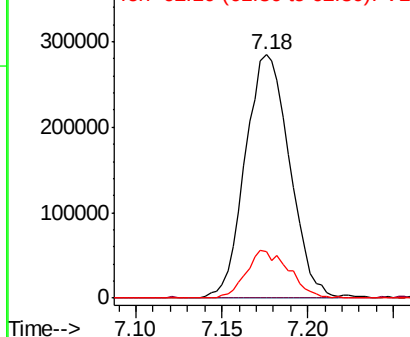
63 100

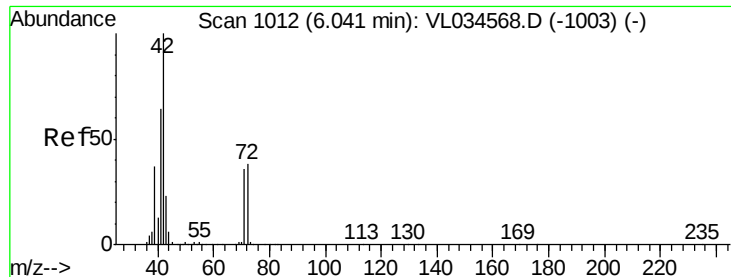
41 0.0 71.0 106.4#

62 19.1 55.4 83.0#



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

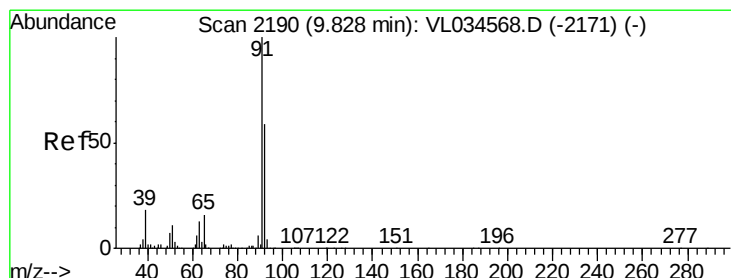
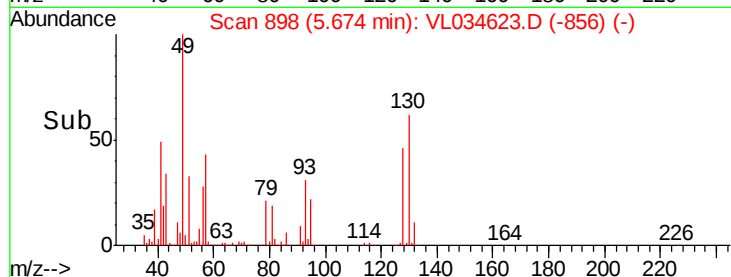
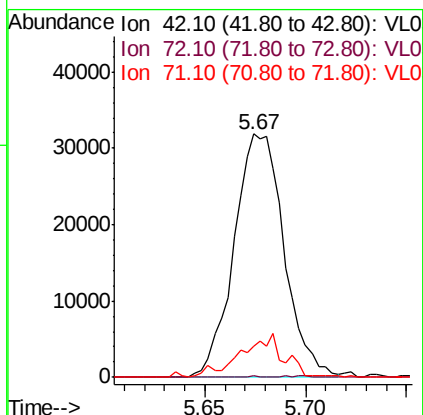
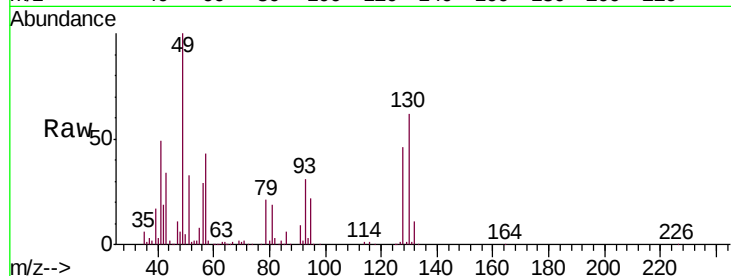




#41
Tetrahydrofuran
Concen: 0.827 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.37 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

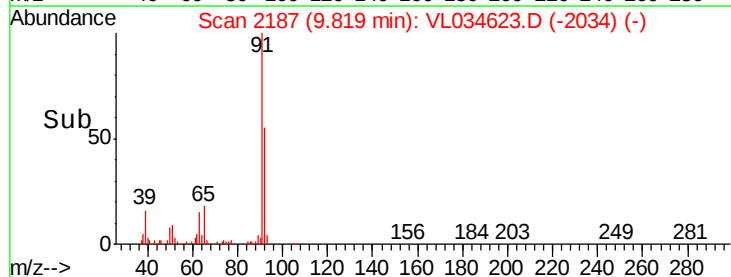
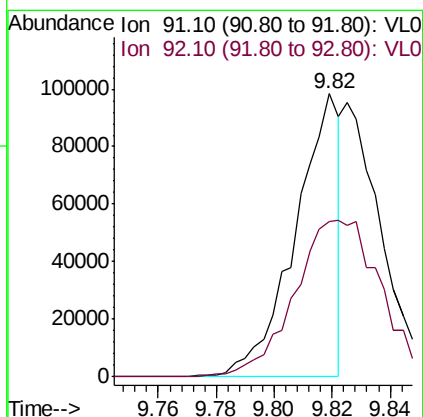
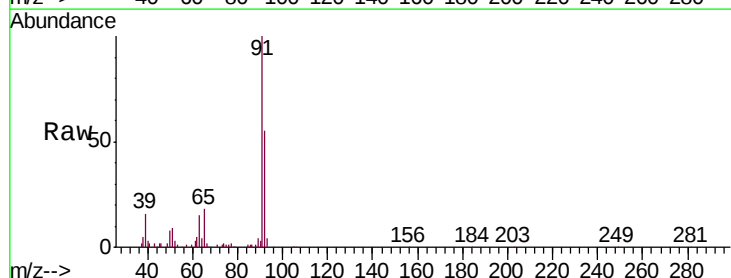
Instrument :
MSVOA_L
ClientSampleId :
QADUP

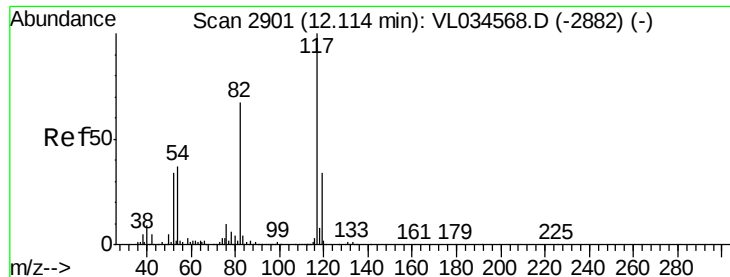
Tgt Ion: 42 Resp: 55220
Ion Ratio Lower Upper
42 100
72 0.3 31.8 47.8#
71 15.8 30.2 45.4#



#53
Toluene
Concen: 0.610 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. -0.01 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

Tgt Ion: 91 Resp: 105020
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.2#

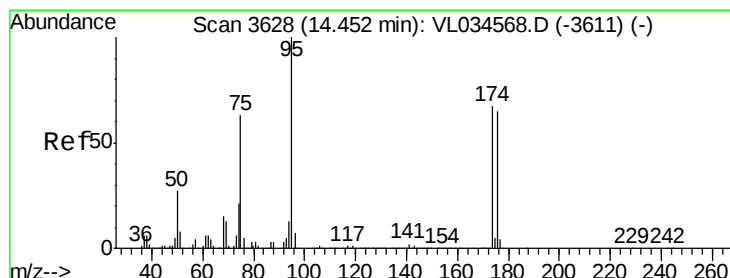
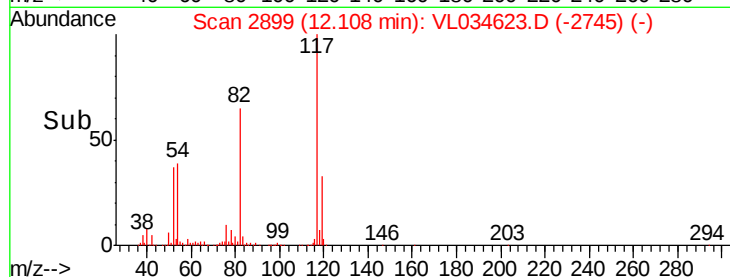
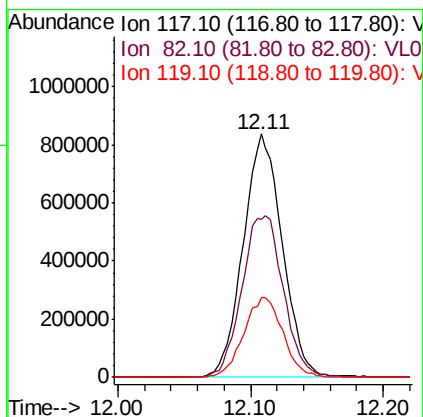
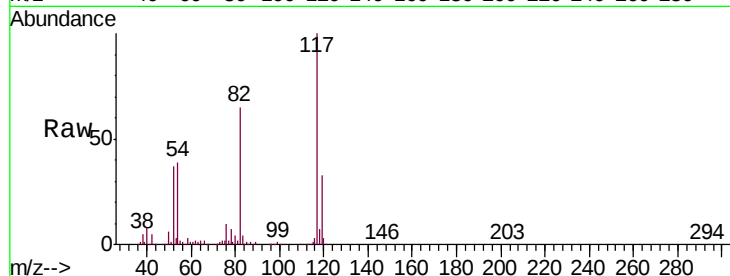




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

Instrument :
MSVOA_L
ClientSampleId :
QADUP

Tgt Ion: 117 Resp: 1715669
Ion Ratio Lower Upper
117 100
82 70.8 54.2 81.4
119 33.1 26.1 39.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.190 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.01 min
Lab File: VL034623.D
Acq: 18 Feb 2020 14:21

Tgt Ion: 95 Resp: 1477471
Ion Ratio Lower Upper
95 100
174 63.2 52.3 78.5
175 4.7 3.8 5.6

