

Data File : VL034622.D
Acq On : 18 Feb 2020 13:40
Operator : SY/AP
Sample : L1532-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
OA

Quant Time: Feb 19 06:03:02 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	882618	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1818932	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1758894	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.45 95 1510185 10.16 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.60%

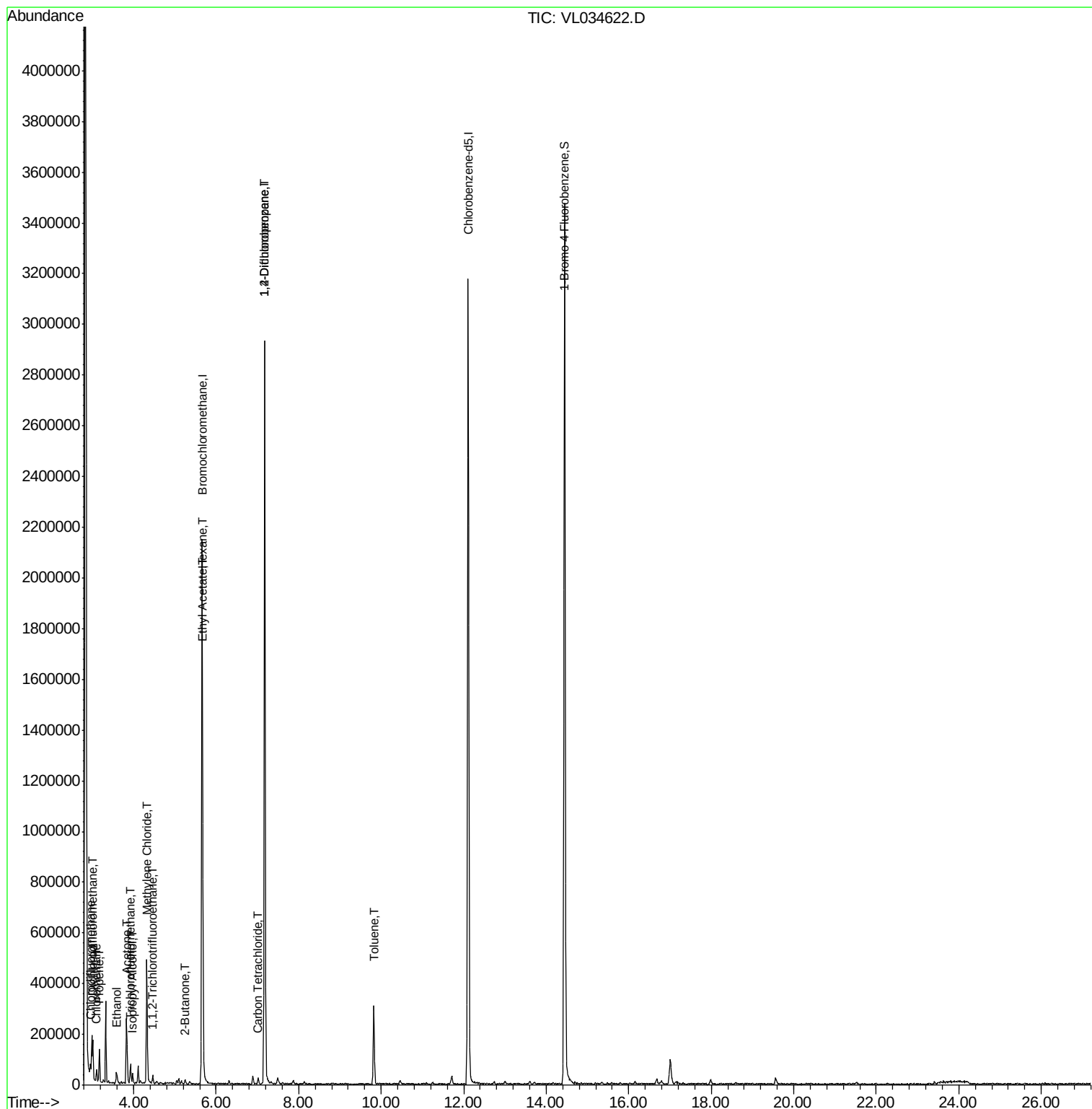
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	99613	0.512	ppbv #	86
3) Chlorodifluoromethane	2.95	51	38956	0.365	ppbv	92
4) Chloromethane	3.10	50	28496	0.437	ppbv	99
9) Propene	3.17	41	24499	0.590	ppbv	93
11) Trichlorofluoromethane	3.92	101	44416	0.252	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.46	101	6080	0.053	ppbv #	59
13) Ethanol	3.58	45	23502	2.113	ppbv #	48
15) Acetone	3.83	43	250188	1.929	ppbv	100
19) Isopropyl Alcohol	3.95	45	3018	0.040	ppbv #	94
20) Methylene Chloride	4.32	84	155836	3.155	ppbv	92
25) Ethyl Acetate	5.68	43	96615	0.460	ppbv #	80
26) Hexane	5.67	57	135241	1.537	ppbv #	38
34) 2-Butanone	5.25	43	14993	0.114	ppbv #	84
35) Carbon Tetrachloride	7.02	117	6616	0.038	ppbv #	53
39) 1,2-Dichloropropane	7.18	63	521970	7.784	ppbv #	19
53) Toluene	9.82	91	210235	1.183	ppbv	96

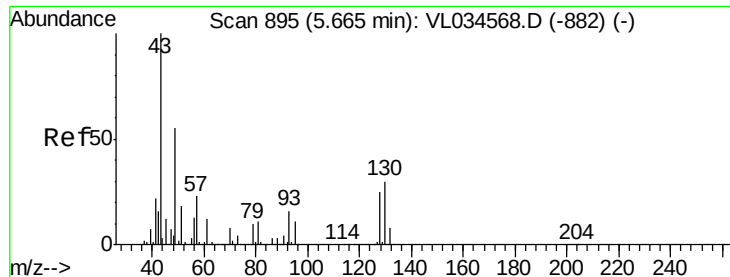
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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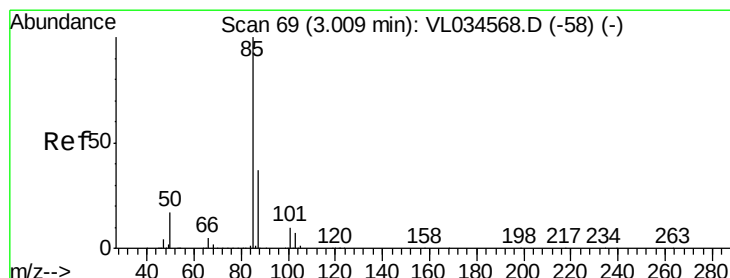
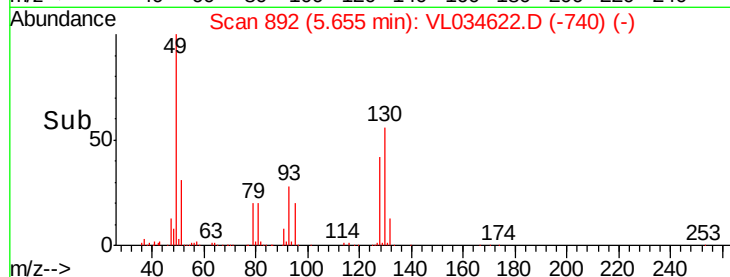
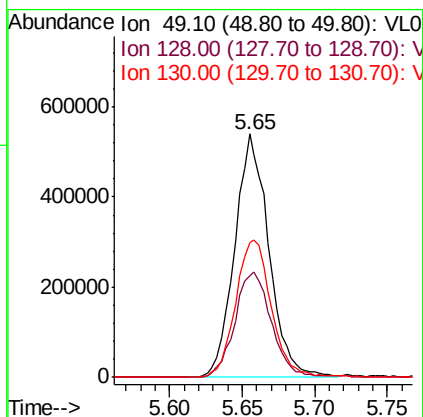
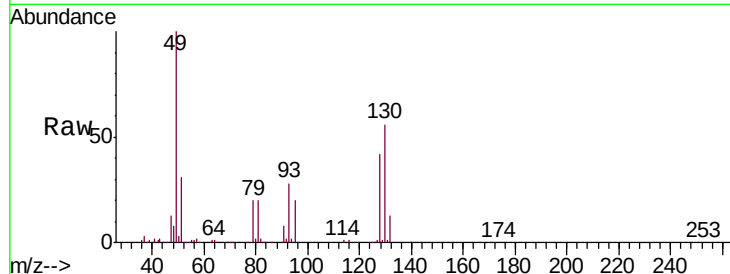




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. -0.01 min
 Lab File: VL034622.D
 Acq: 18 Feb 2020 13:40

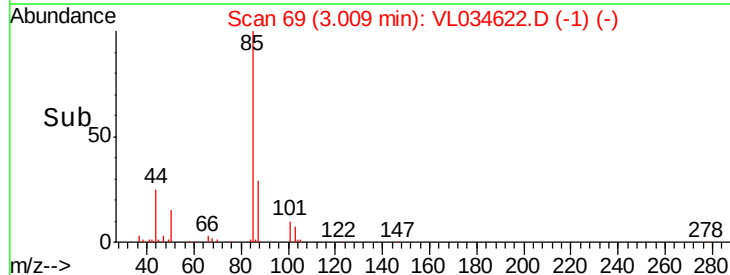
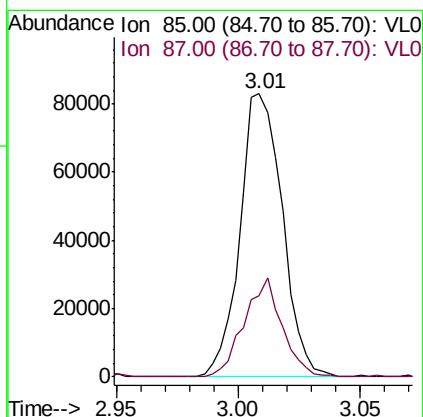
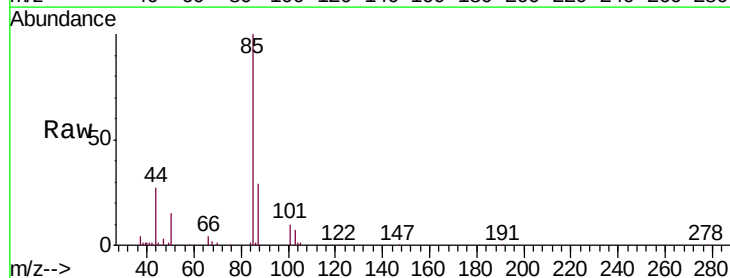
Instrument :
 MSVOA_L
 ClientSampleId :
 OA

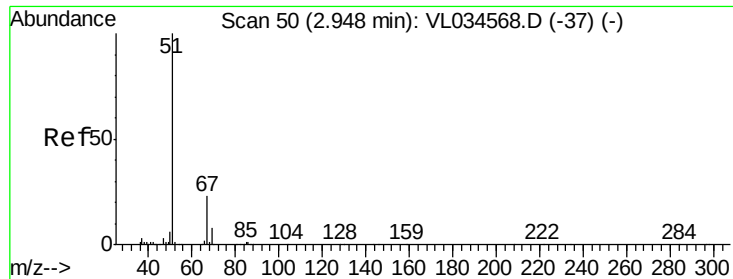
Tgt Ion: 49 Resp: 882618
 Ion Ratio Lower Upper
 49 100
 128 46.5 22.7 68.1
 130 59.7 28.6 85.8



#2
 Dichlorodifluoromethane
 Concen: 0.512 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: VL034622.D
 Acq: 18 Feb 2020 13:40

Tgt Ion: 85 Resp: 99613
 Ion Ratio Lower Upper
 85 100
 87 28.5 29.5 44.3#

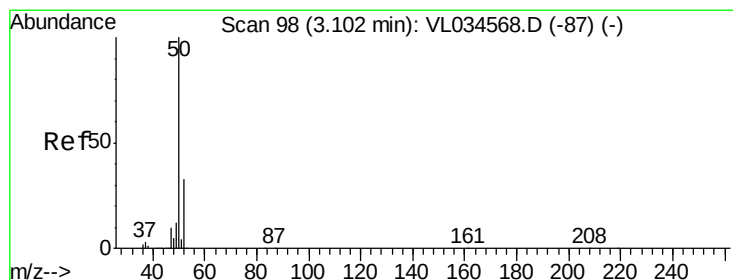
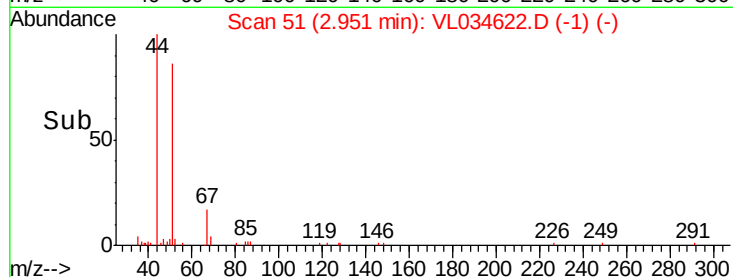
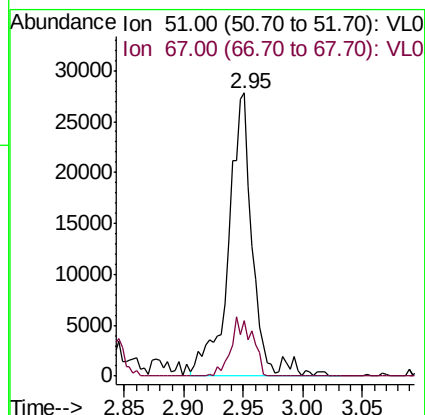
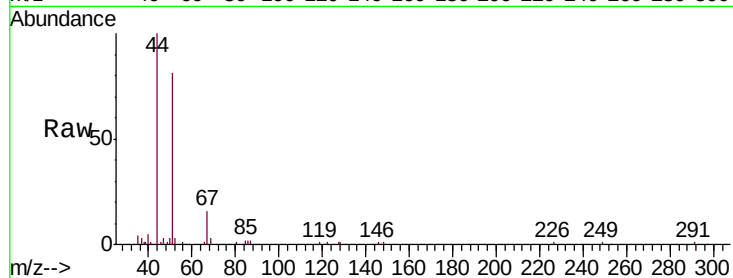




#3
Chlorodifluoromethane
Concen: 0.365 ppbv
RT: 2.95 min Scan# 51
Delta R.T. 0.00 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

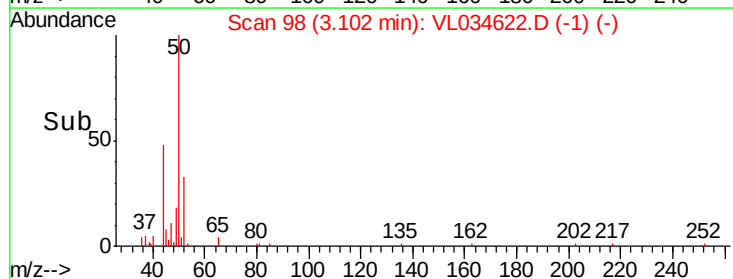
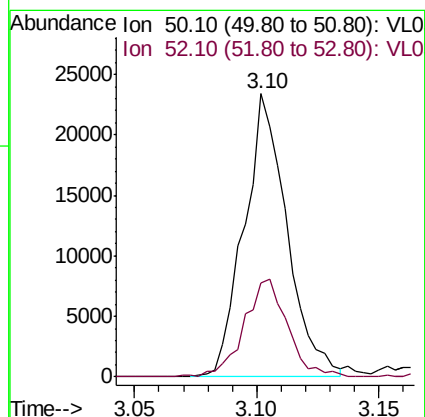
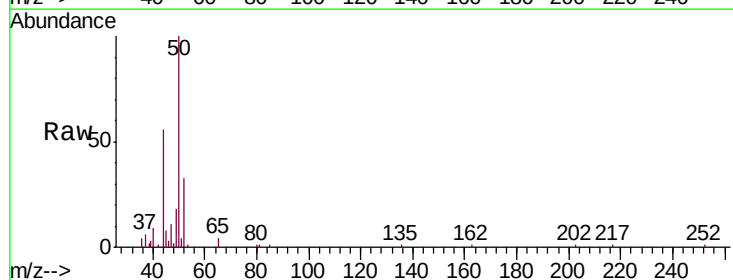
Instrument :
MSVOA_L
ClientSampleId :
OA

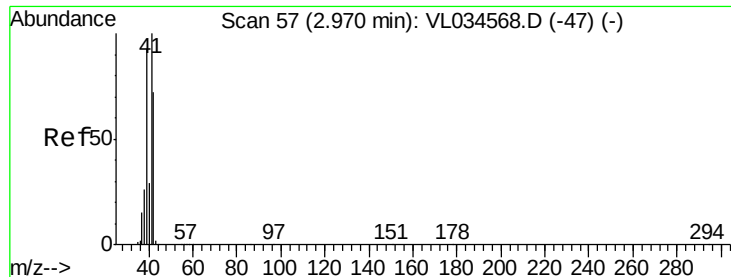
Tgt Ion: 51 Resp: 38956
Ion Ratio Lower Upper
51 100
67 18.4 17.8 26.8



#4
Chloromethane
Concen: 0.437 ppbv
RT: 3.10 min Scan# 98
Delta R.T. -0.00 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Tgt Ion: 50 Resp: 28496
Ion Ratio Lower Upper
50 100
52 32.5 26.6 39.8





#9

Propene

Concen: 0.590 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.20 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

Instrument :

MSVOA_L

ClientSampleId :

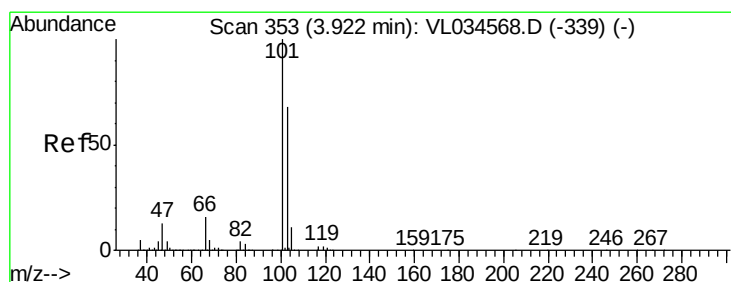
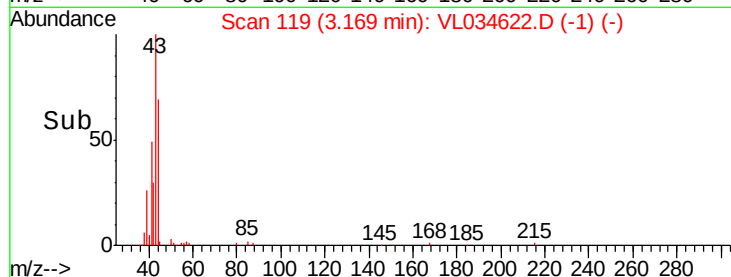
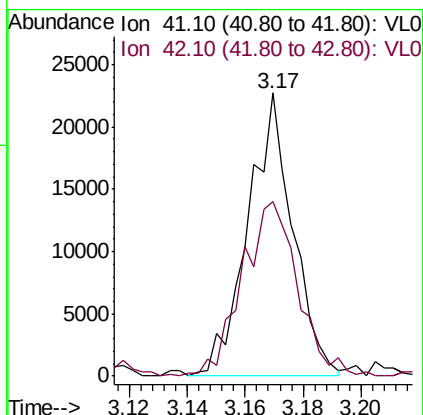
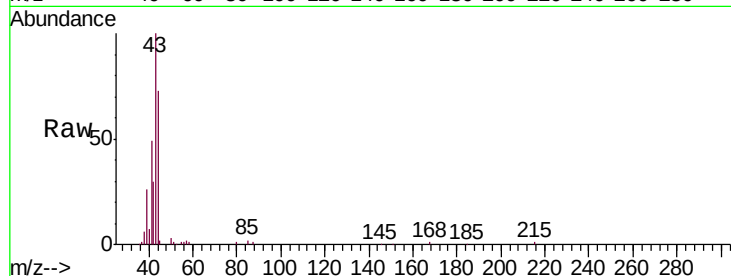
QA

Tgt Ion: 41 Resp: 24499

Ion Ratio Lower Upper

41 100

42 77.2 57.0 85.4



#11

Trichlorofluoromethane

Concen: 0.252 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.00 min

Lab File: VL034622.D

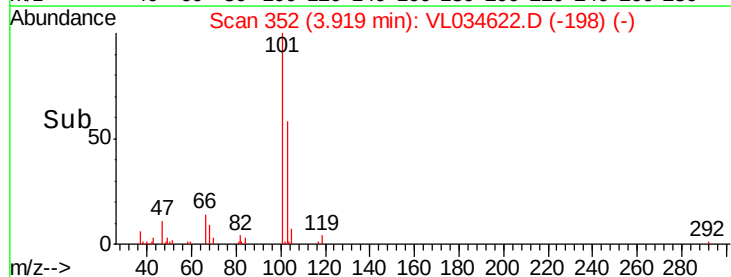
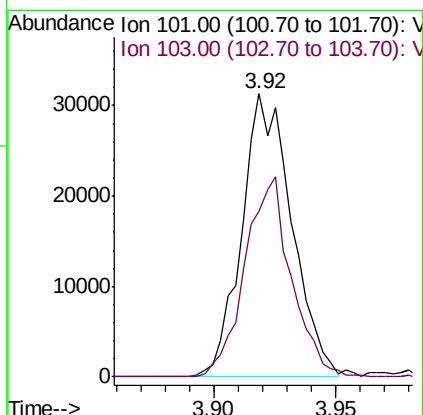
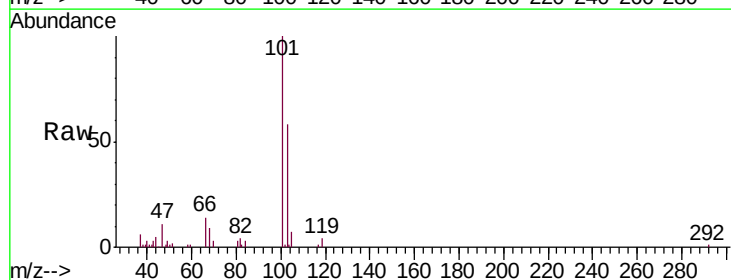
Acq: 18 Feb 2020 13:40

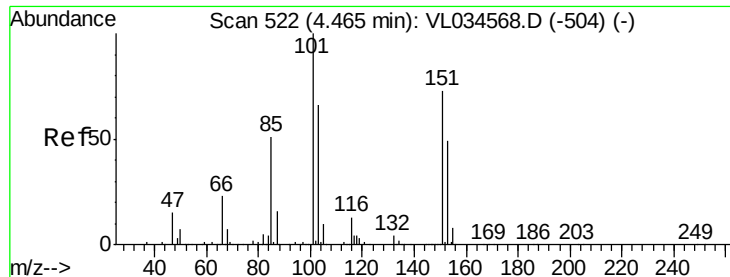
Tgt Ion: 101 Resp: 44416

Ion Ratio Lower Upper

101 100

103 58.4 54.4 81.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.053 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

Instrument :

MSVOA_L

ClientSampleId :

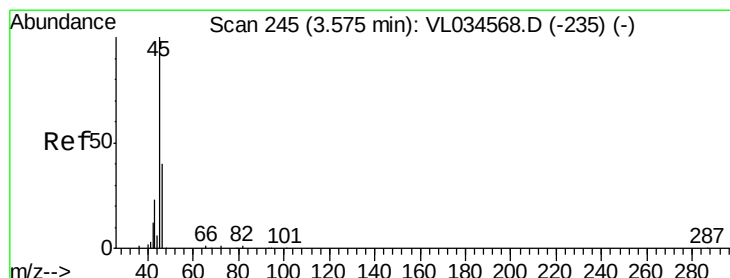
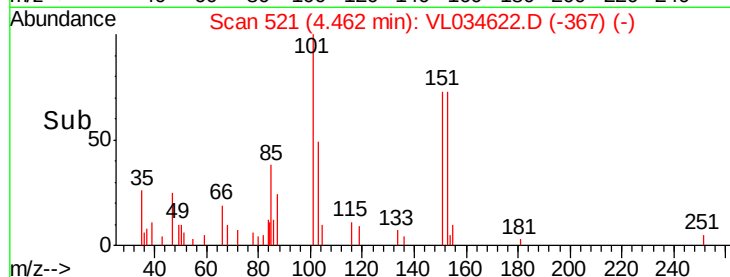
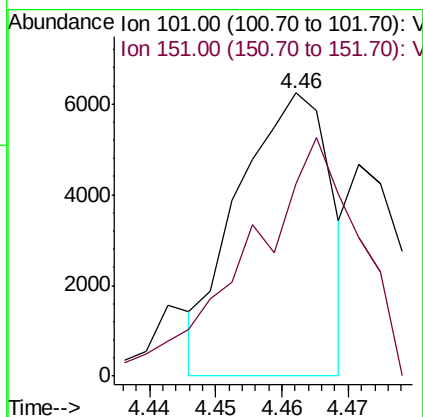
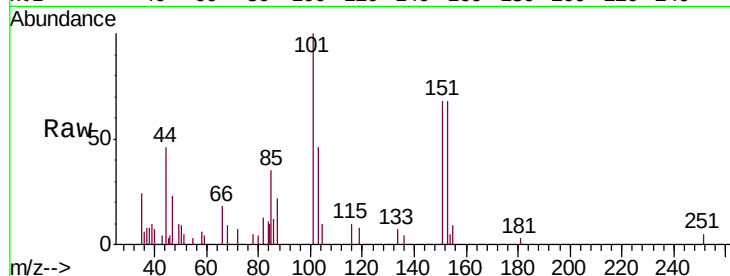
QA

Tgt Ion:101 Resp: 6080

Ion Ratio Lower Upper

101 100

151 105.2 57.0 85.6#



#13

Ethanol

Concen: 2.113 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.01 min

Lab File: VL034622.D

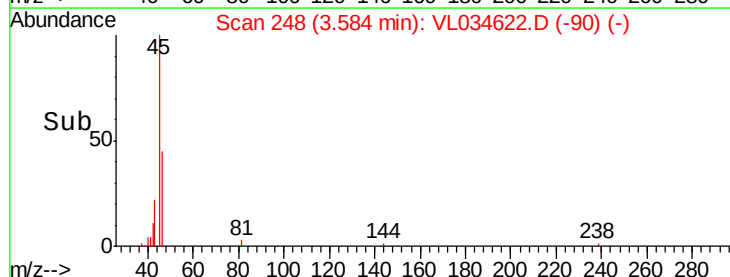
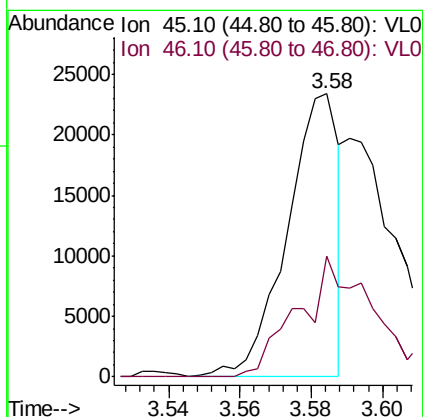
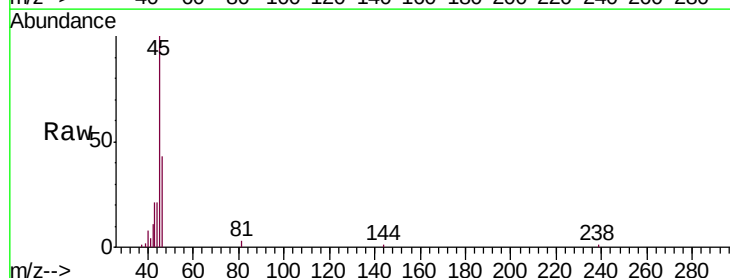
Acq: 18 Feb 2020 13:40

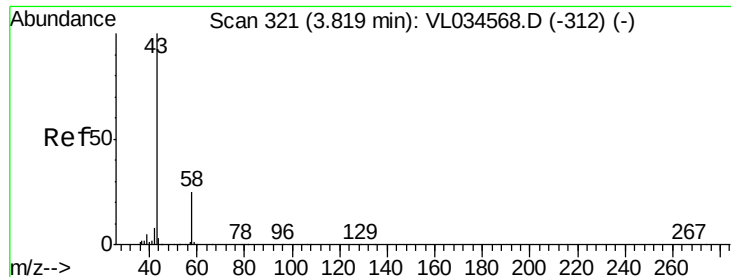
Tgt Ion: 45 Resp: 23502

Ion Ratio Lower Upper

45 100

46 68.0 14.8 59.2#





#15

Acetone

Concen: 1.929 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

Instrument :

MSVOA_L

ClientSampleId :

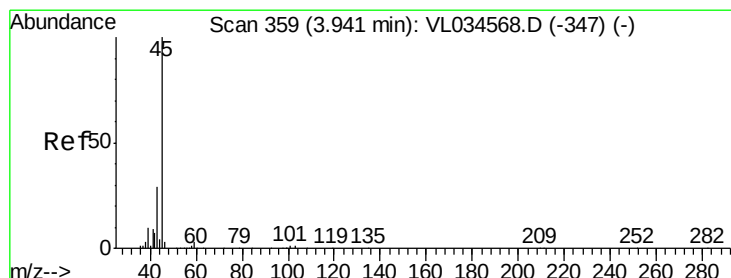
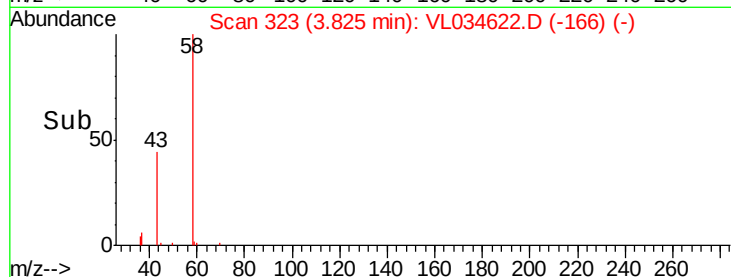
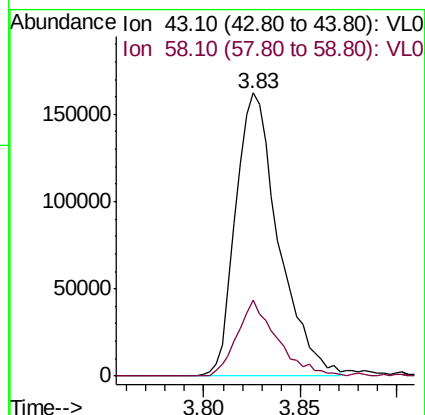
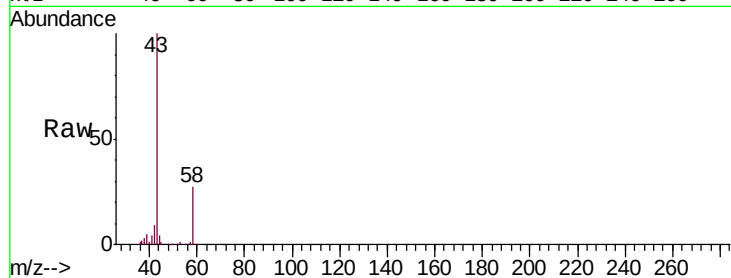
QA

Tgt Ion: 43 Resp: 250188

Ion Ratio Lower Upper

43 100

58 25.4 20.3 30.5



#19

Isopropyl Alcohol

Concen: 0.040 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034622.D

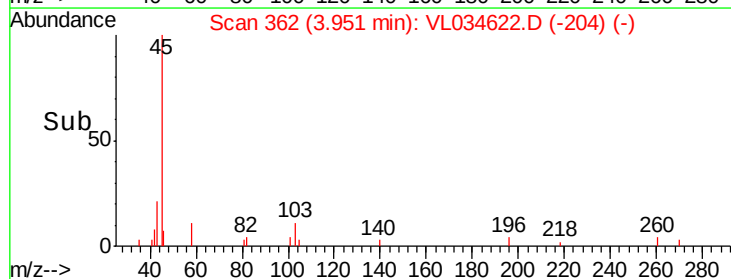
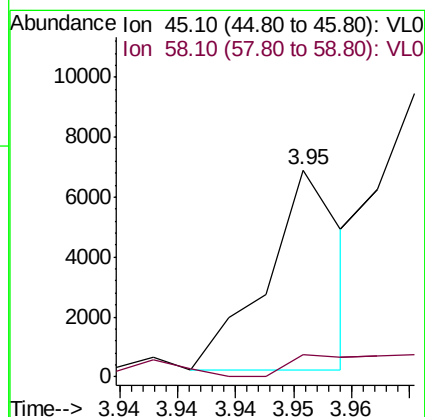
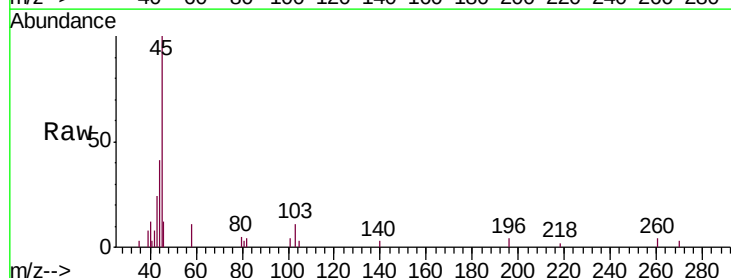
Acq: 18 Feb 2020 13:40

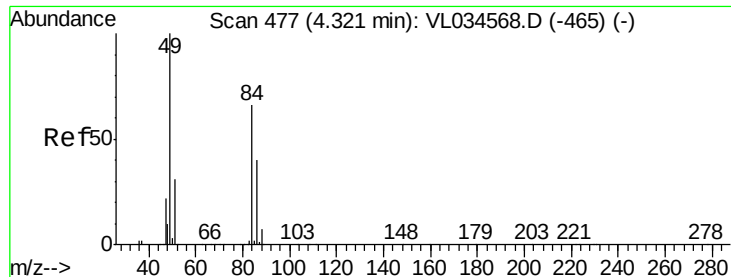
Tgt Ion: 45 Resp: 3018

Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

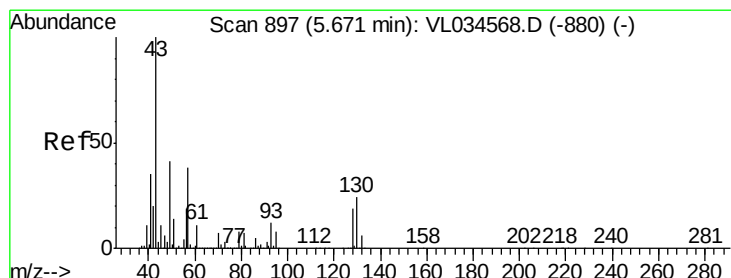
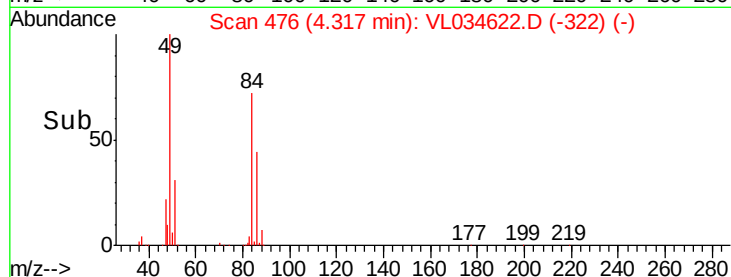
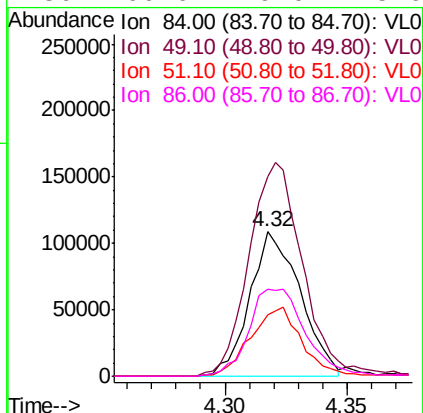
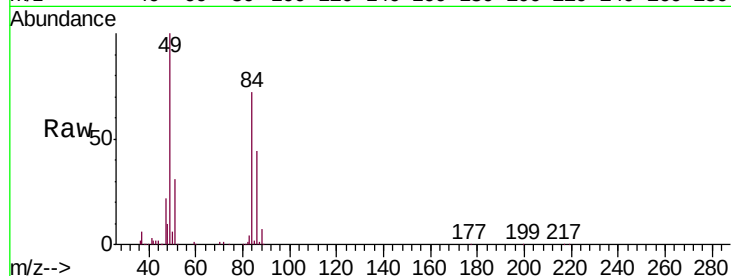




#20
Methylene Chloride
Concen: 3.155 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

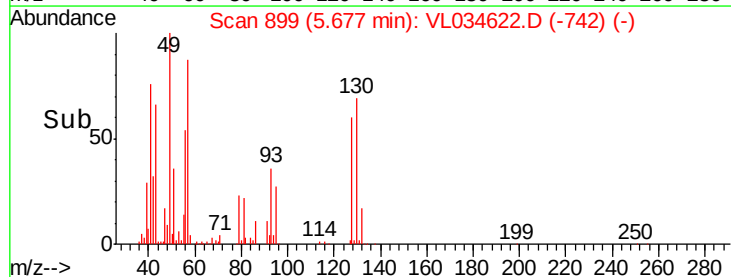
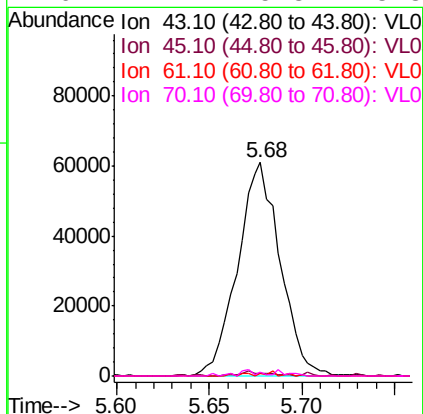
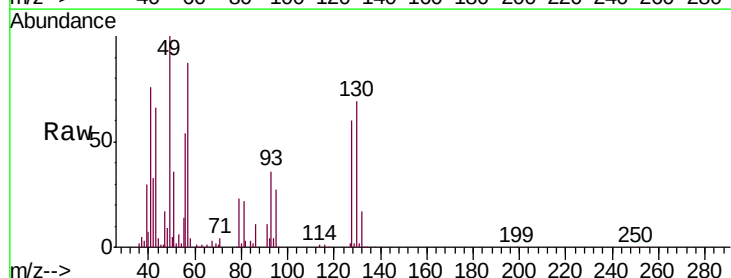
Instrument :
MSVOA_L
ClientSampleId :
QA

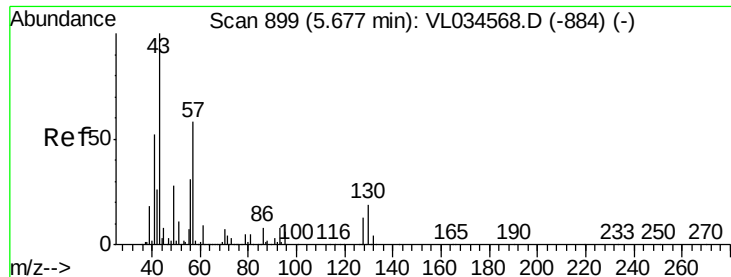
Tgt Ion:	84	Resp:	155836
Ion	Ratio	Lower	Upper
84	100		
49	138.4	122.4	183.6
51	42.5	38.6	57.8
86	60.6	49.0	73.6



#25
Ethyl Acetate
Concen: 0.460 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Tgt Ion:	43	Resp:	96615
Ion	Ratio	Lower	Upper
43	100		
45	2.5	8.5	12.7#
61	1.4	7.8	11.6#
70	2.2	5.8	8.8#

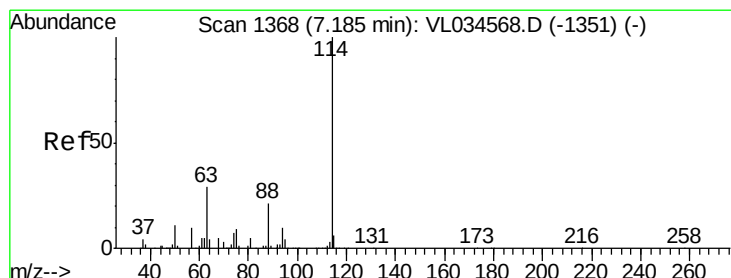
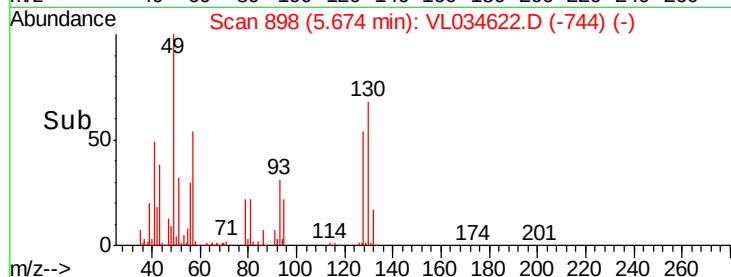
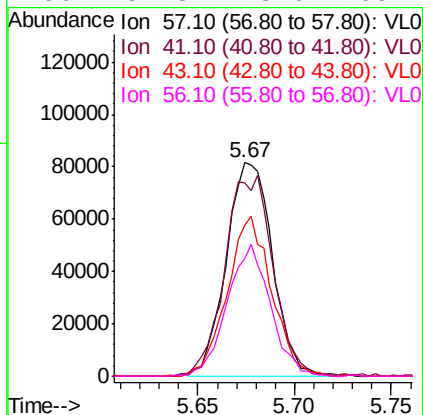
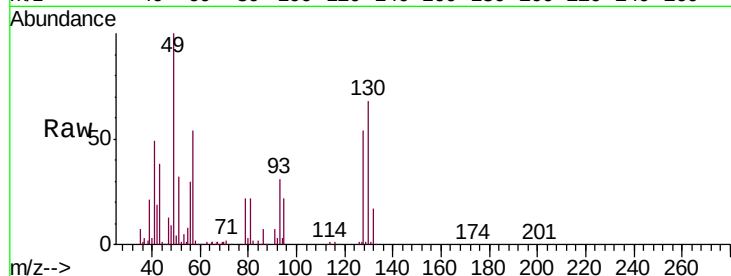




#26
Hexane
Concen: 1.537 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

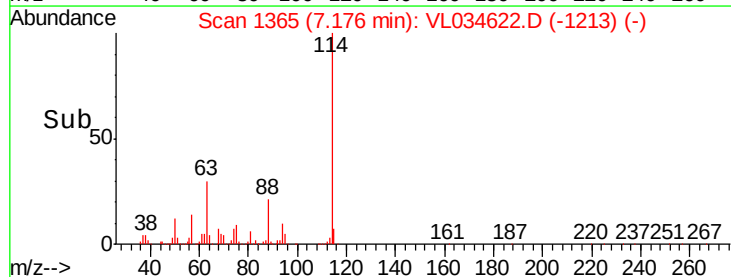
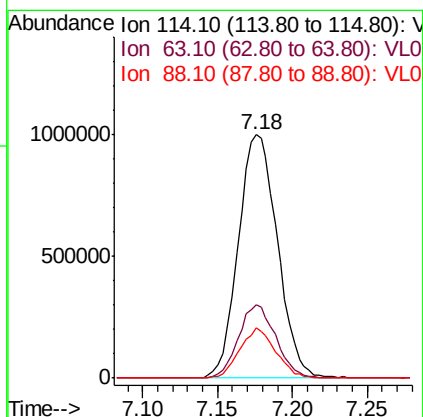
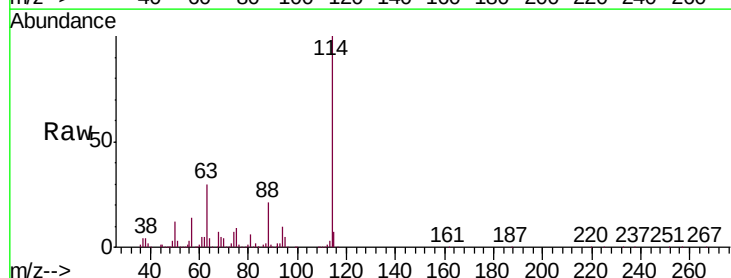
Instrument :
MSVOA_L
ClientSampleId :
OA

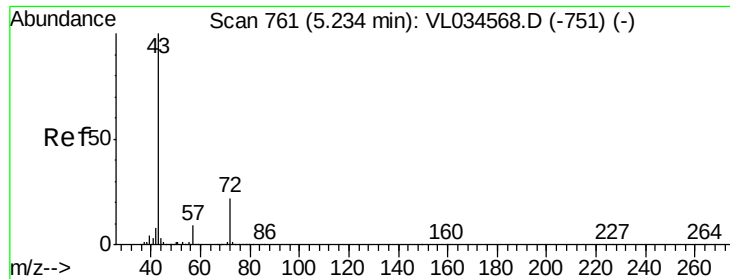
Tgt Ion: 57 Resp: 135241
Ion Ratio Lower Upper
57 100
41 98.9 76.2 114.2
43 72.4 189.9 284.9#
56 57.8 43.6 65.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Tgt Ion: 114 Resp: 1818932
Ion Ratio Lower Upper
114 100
63 28.9 24.1 36.1
88 19.1 15.9 23.9





#34

2-Butanone

Concen: 0.114 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.02 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

Instrument :

MSVOA_L

ClientSampleId :

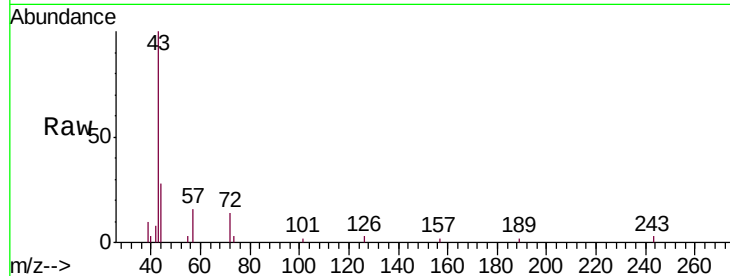
QA

Tgt Ion: 43 Resp: 14993

Ion Ratio Lower Upper

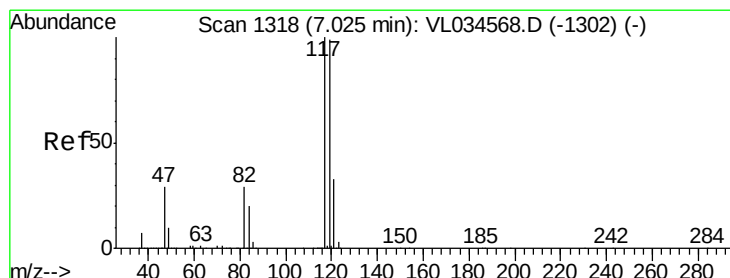
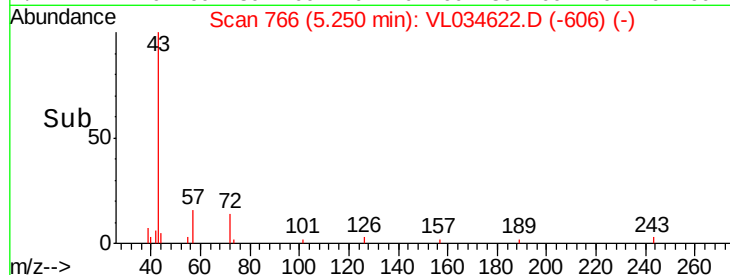
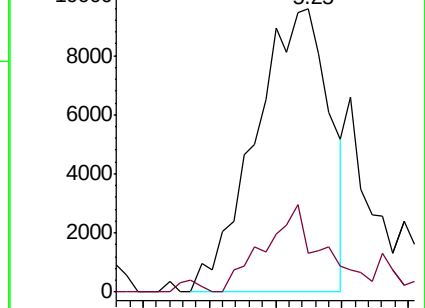
43 100

72 29.1 17.2 25.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.038 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VL034622.D

Acq: 18 Feb 2020 13:40

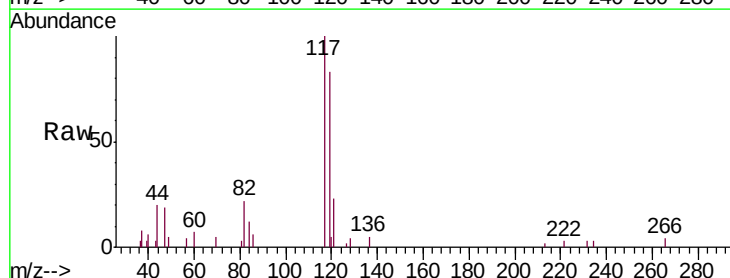
Tgt Ion: 117 Resp: 6616

Ion Ratio Lower Upper

117 100

119 50.6 79.5 119.3#

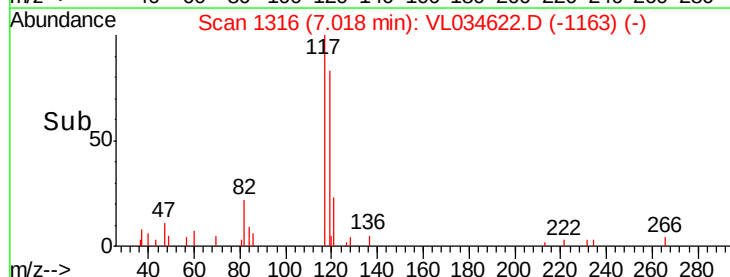
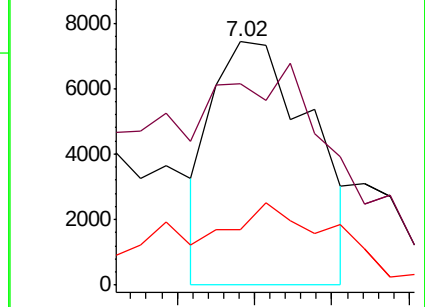
121 10.4 26.2 39.2#

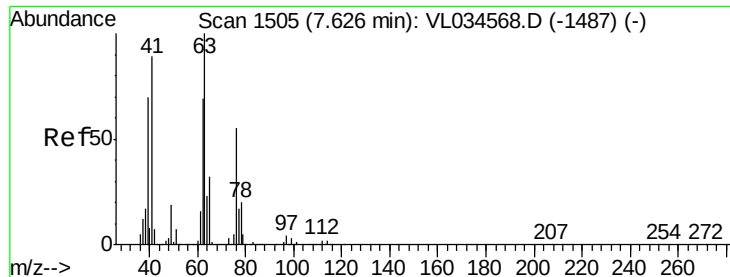


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

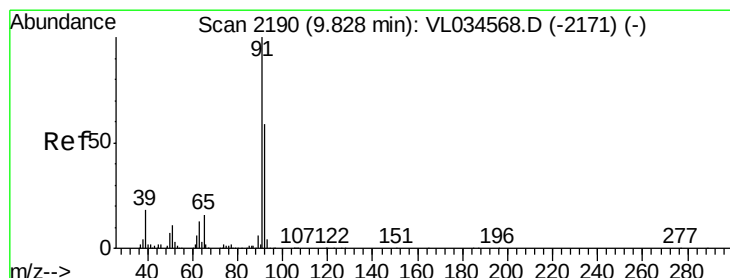
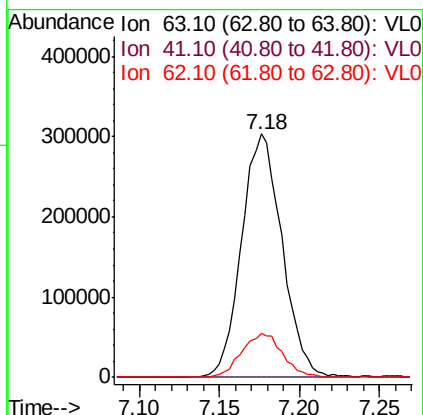
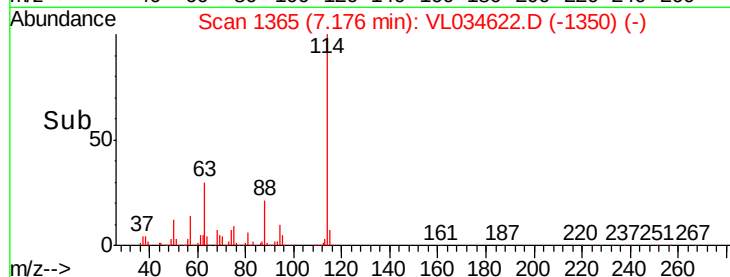
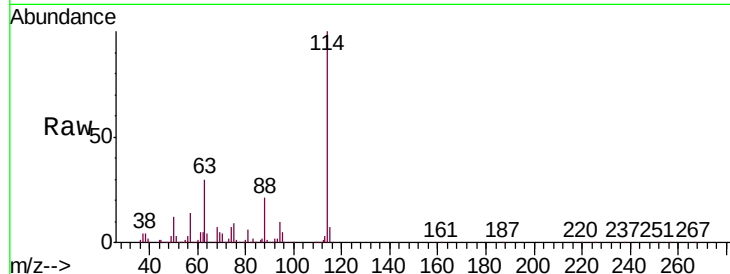




#39
 1,2-Dichloropropane
 Concen: 7.784 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL034622.D
 Acq: 18 Feb 2020 13:40

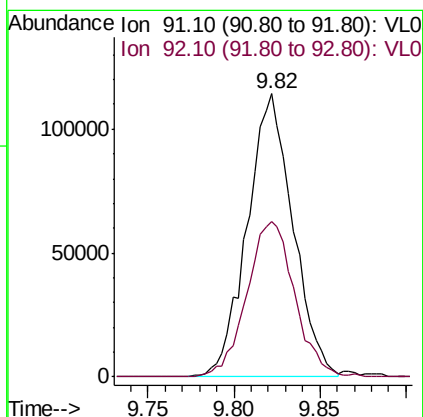
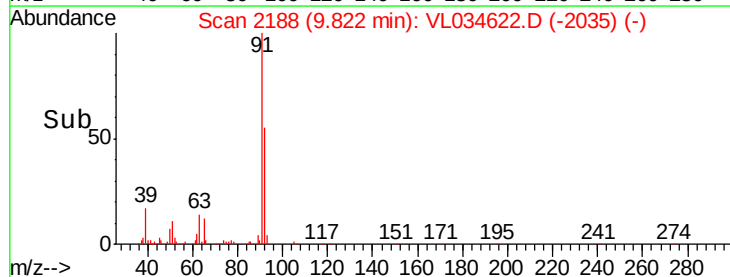
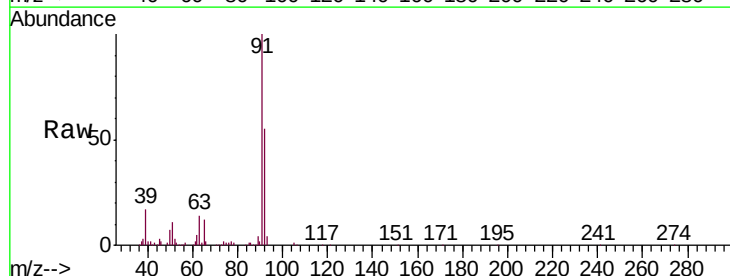
Instrument :
 MSVOA_L
 ClientSampleId :
 OA

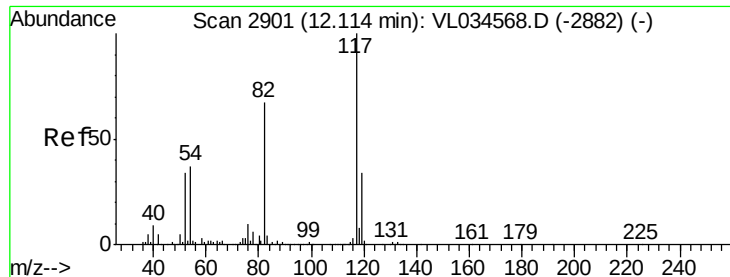
Tgt Ion: 63 Resp: 521970
 Ion Ratio Lower Upper
 63 100
 41 0.0 71.0 106.4#
 62 17.9 55.4 83.0#



#53
 Toluene
 Concen: 1.183 ppbv
 RT: 9.82 min Scan# 2188
 Delta R.T. -0.01 min
 Lab File: VL034622.D
 Acq: 18 Feb 2020 13:40

Tgt Ion: 91 Resp: 210235
 Ion Ratio Lower Upper
 91 100
 92 57.2 48.2 72.2

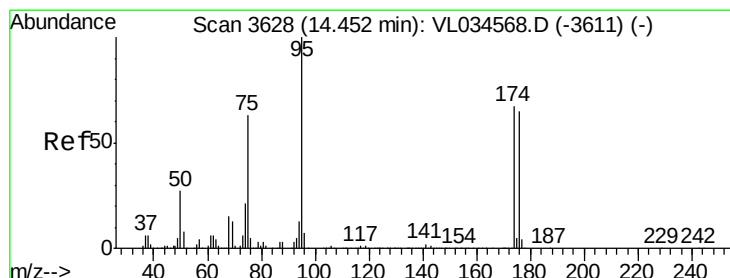
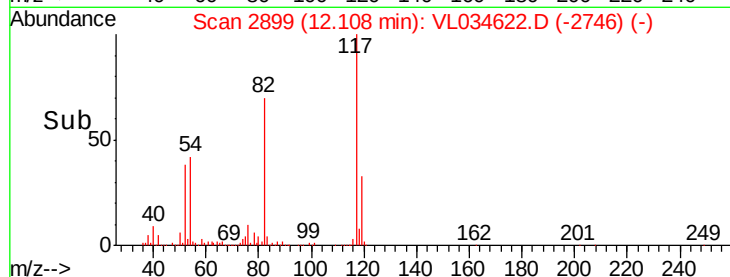
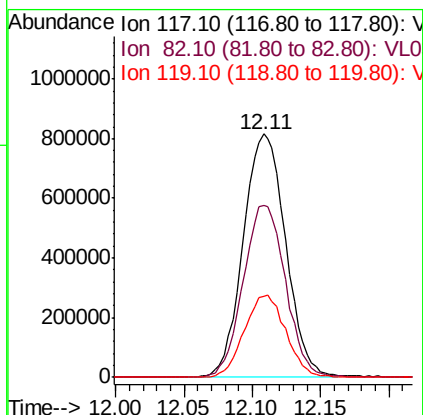
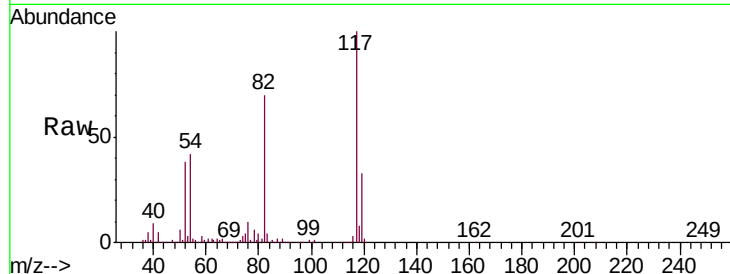




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Instrument :
MSVOA_L
ClientSampleId :
OA

Tgt Ion: 117 Resp: 1758894
Ion Ratio Lower Upper
117 100
82 71.4 54.2 81.4
119 33.4 26.1 39.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.159 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. -0.01 min
Lab File: VL034622.D
Acq: 18 Feb 2020 13:40

Tgt Ion: 95 Resp: 1510185
Ion Ratio Lower Upper
95 100
174 64.7 52.3 78.5
175 4.7 3.8 5.6

