

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
 Data File : VL034258.D
 Acq On : 8 Oct 2019 21:11
 Operator : SY/AP
 Sample : K5243-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Oct 09 05:21:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

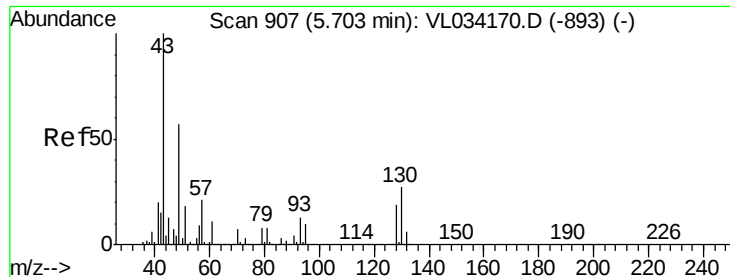
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	970480	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1572956	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1630902	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1460626	10.31	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	86410	0.603	ppbv	91
3) Chlorodifluoromethane	2.94	51	324131	2.849	ppbv #	65
4) Chloromethane	3.12	50	29812	0.446	ppbv	100
9) Propene	3.00	41	28320	0.504	ppbv	84
11) Trichlorofluoromethane	3.94	101	29954	0.230	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.49	101	4194	0.049	ppbv #	47
13) Ethanol	3.60	45	112541	8.278	ppbv	95
15) Acetone	3.84	43	296087	2.276	ppbv	99
19) Isopropyl Alcohol	3.98	45	92861	1.161	ppbv #	93
20) Methylene Chloride	4.34	84	43453	1.159	ppbv	92
25) Ethyl Acetate	5.71	43	66543	0.271	ppbv #	84
26) Hexane	5.71	57	76810	0.751	ppbv #	43
34) 2-Butanone	5.27	43	19368	0.121	ppbv	96
36) Benzene	6.92	78	10840	0.062	ppbv #	87
39) 1,2-Dichloropropane	7.21	63	542528	6.951	ppbv #	19
52) Tetrachloroethene	11.29	164	1991	0.035	ppbv #	37
53) Toluene	9.86	91	101135	0.533	ppbv	95

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

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OA1

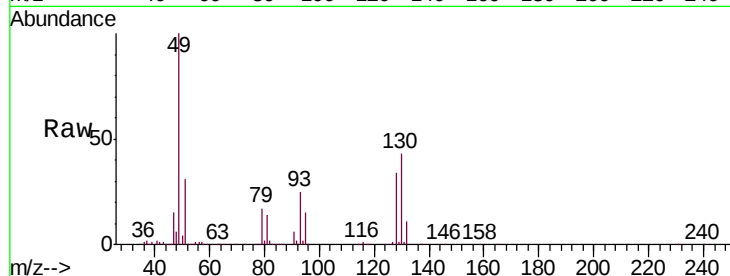
Tgt Ion: 49 Resp: 970480

Ion Ratio Lower Upper

49 100

128 34.5 17.6 52.9

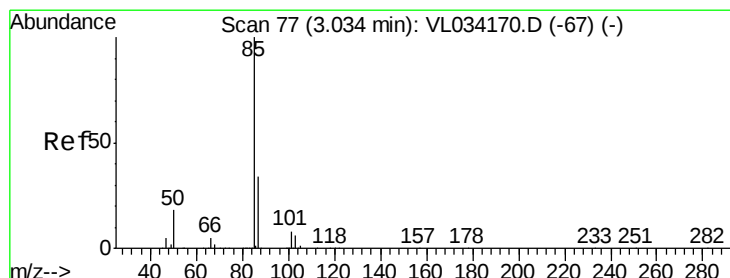
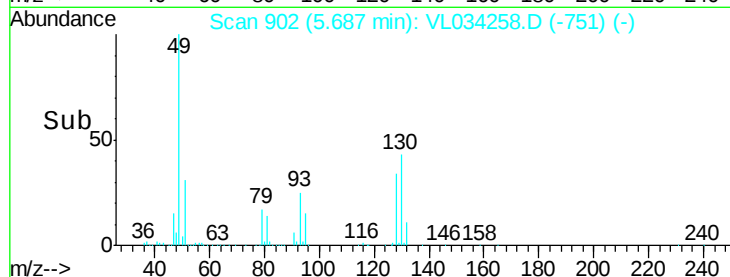
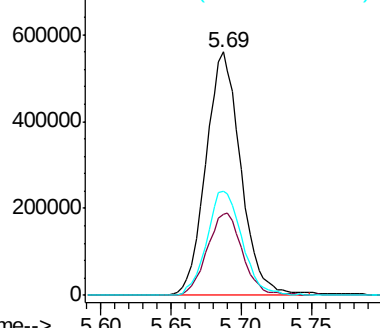
130 43.9 22.3 66.9



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: 0.603 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034258.D

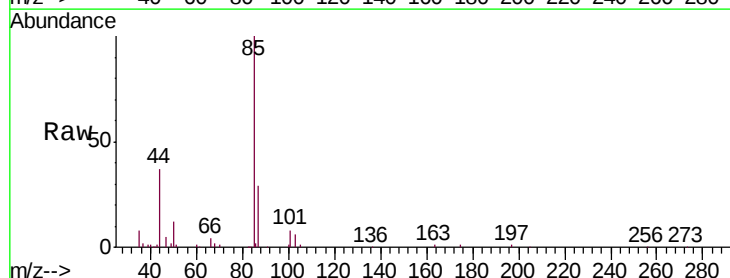
Acq: 8 Oct 2019 21:11

Tgt Ion: 85 Resp: 86410

Ion Ratio Lower Upper

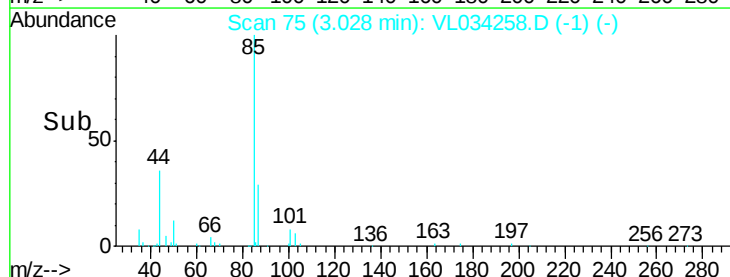
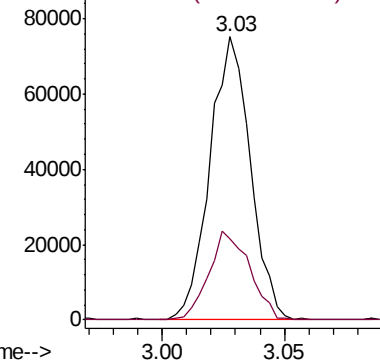
85 100

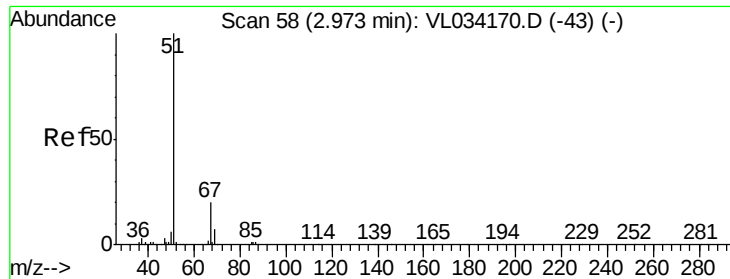
87 28.8 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

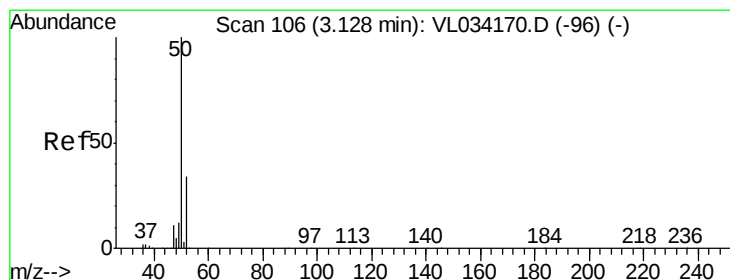
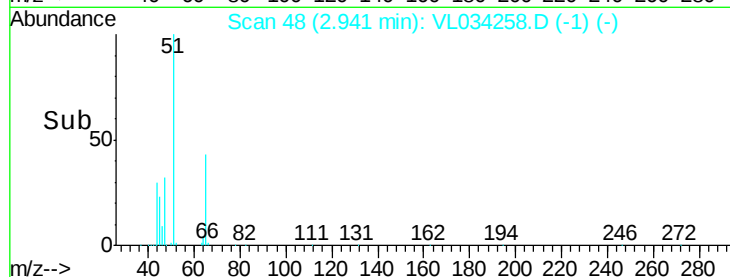
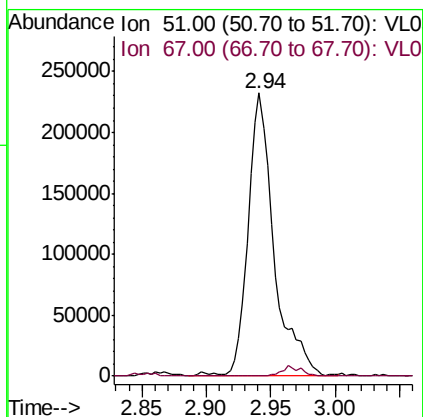
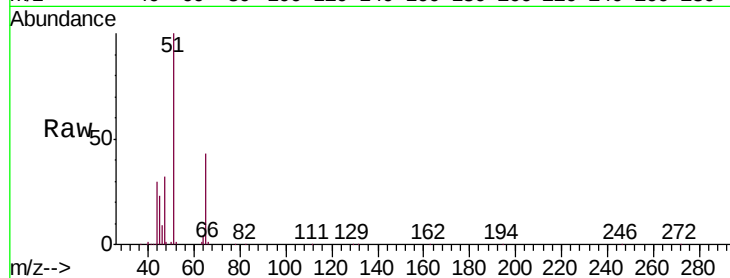




#3
Chlorodifluoromethane
Concen: 2.849 ppbv
RT: 2.94 min Scan# 48
Delta R.T. -0.03 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

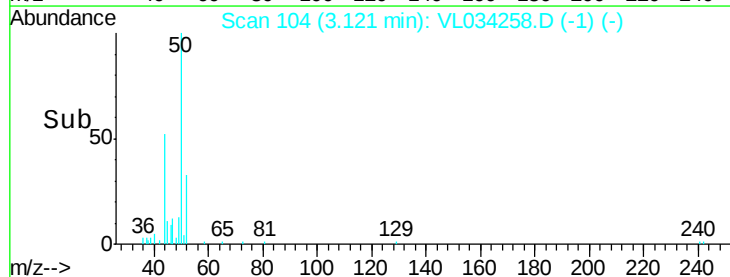
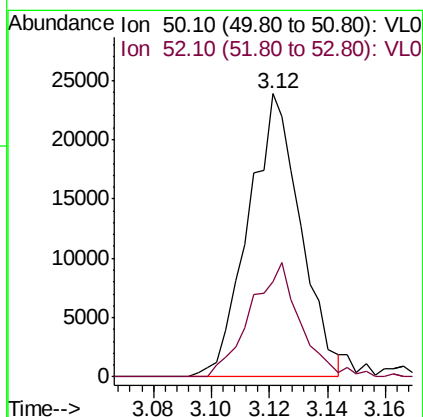
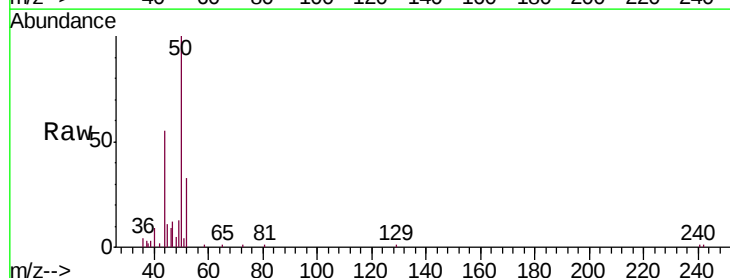
Instrument :
MSVOA_L
ClientSampleId :
OA1

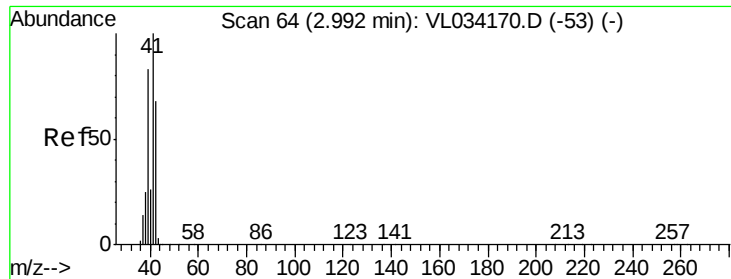
Tgt Ion: 51 Resp: 324131
Ion Ratio Lower Upper
51 100
67 2.8 14.8 22.2#



#4
Chloromethane
Concen: 0.446 ppbv
RT: 3.12 min Scan# 104
Delta R.T. -0.01 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Tgt Ion: 50 Resp: 29812
Ion Ratio Lower Upper
50 100
52 33.9 27.1 40.7





#9

Propene

Concen: 0.504 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL034258.D

Acq: 8 Oct 2019 21:11

Instrument :

MSVOA_L

ClientSampleId :

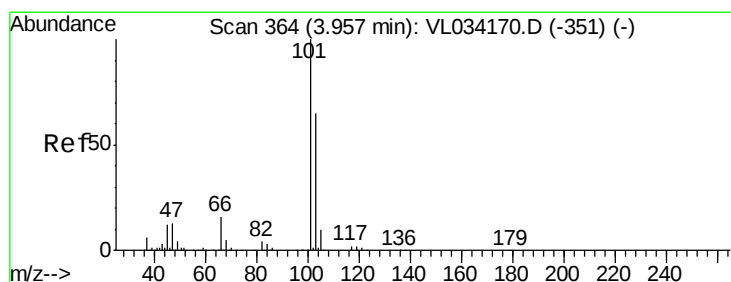
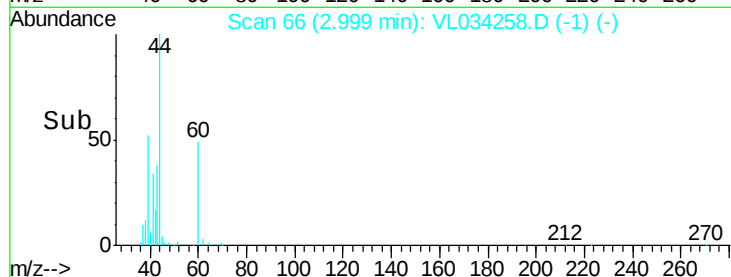
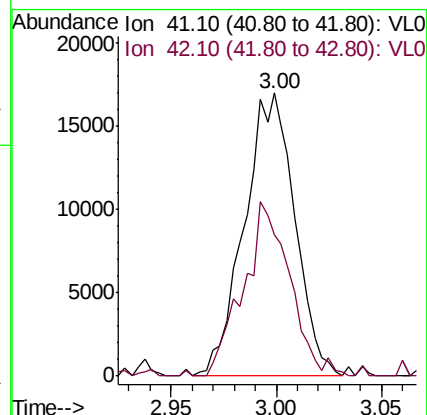
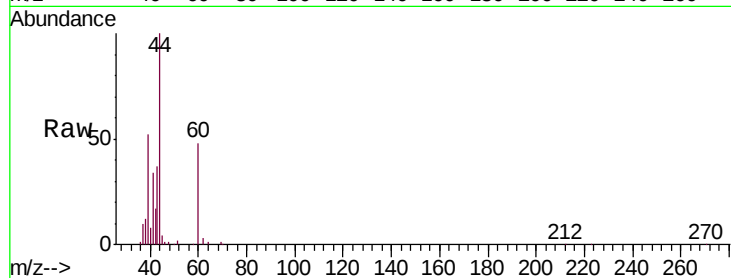
OA1

Tgt Ion: 41 Resp: 28320

Ion Ratio Lower Upper

41 100

42 56.7 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.230 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL034258.D

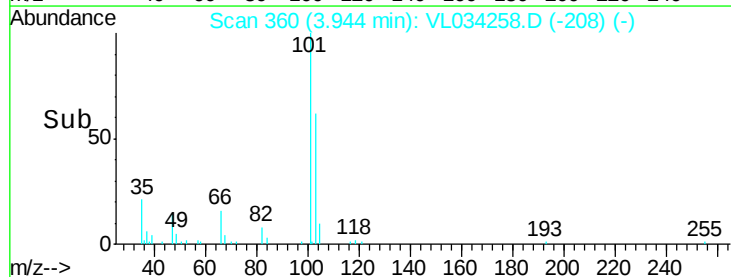
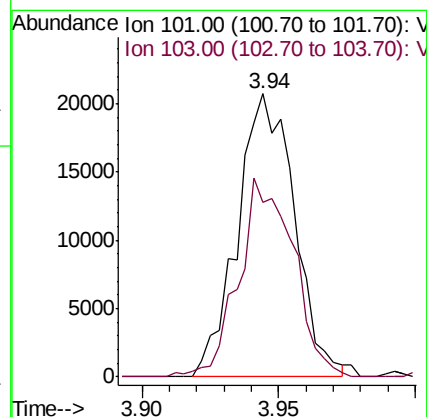
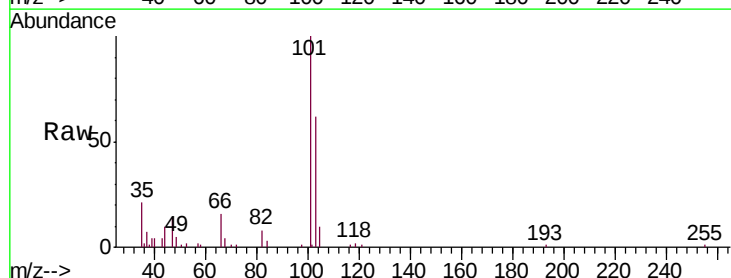
Acq: 8 Oct 2019 21:11

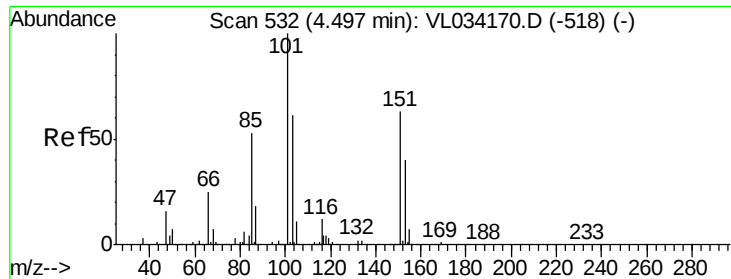
Tgt Ion: 101 Resp: 29954

Ion Ratio Lower Upper

101 100

103 59.9 52.1 78.1





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.049 ppbv

RT: 4.49 min Scan# 529

Delta R.T. -0.01 min

Lab File: VL034258.D

Acq: 8 Oct 2019 21:11

Instrument :

MSVOA_L

ClientSampled :

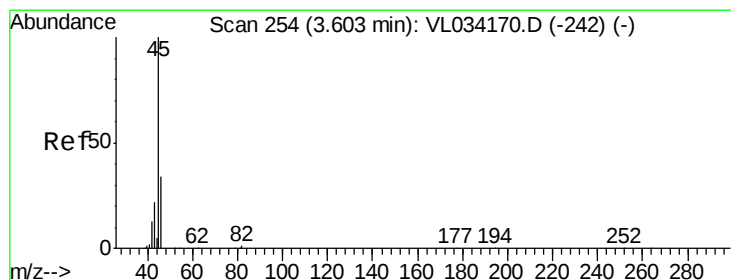
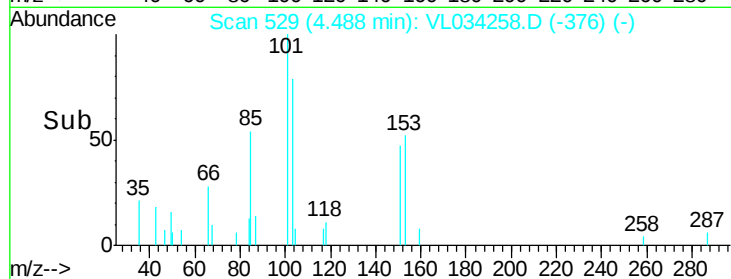
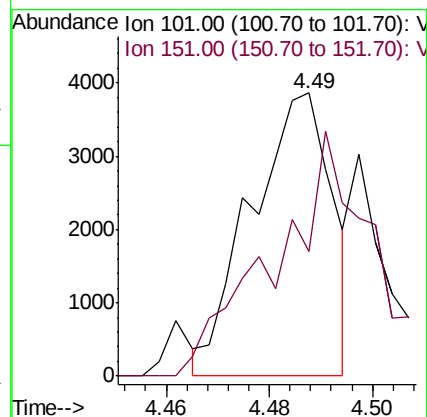
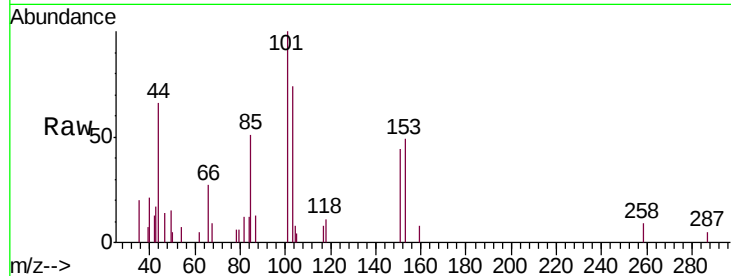
OA1

Tgt Ion: 101 Resp: 4194

Ion Ratio Lower Upper

101 100

151 106.5 51.8 77.8#



#13

Ethanol

Concen: 8.278 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.00 min

Lab File: VL034258.D

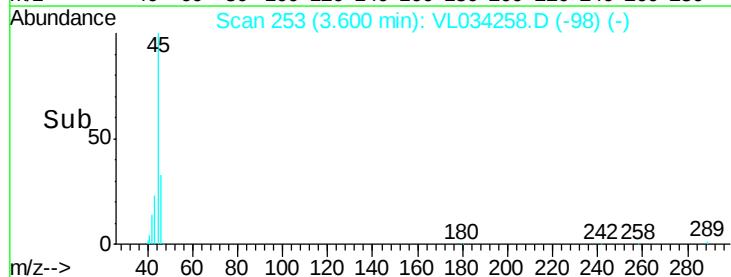
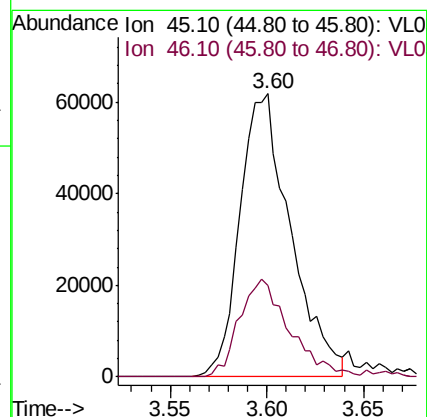
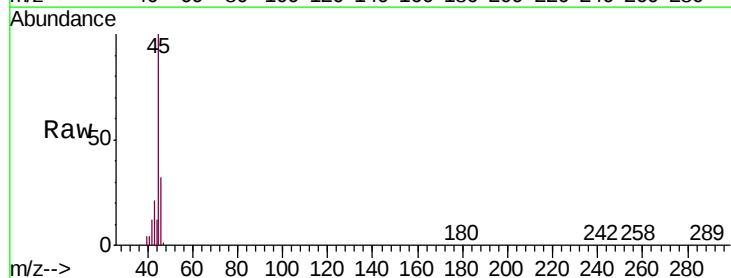
Acq: 8 Oct 2019 21:11

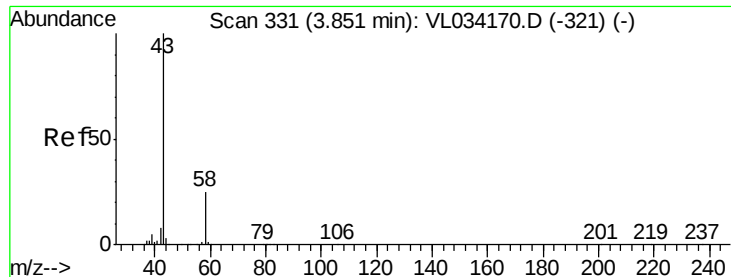
Tgt Ion: 45 Resp: 112541

Ion Ratio Lower Upper

45 100

46 35.6 15.5 61.9

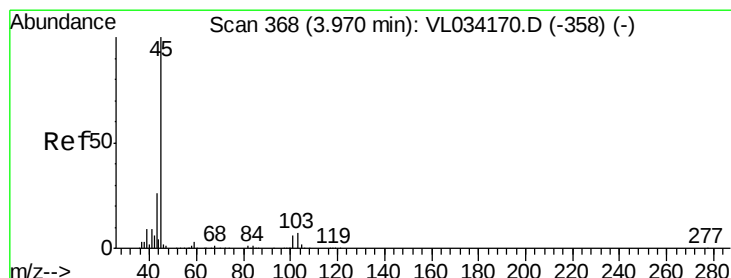
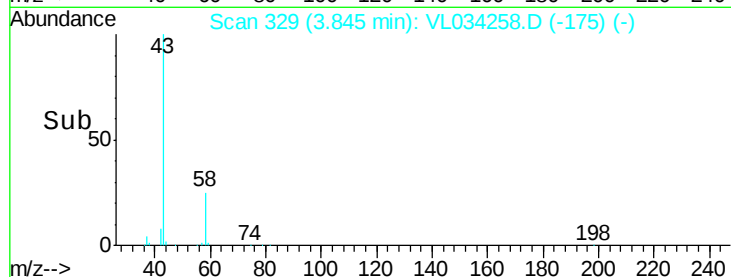
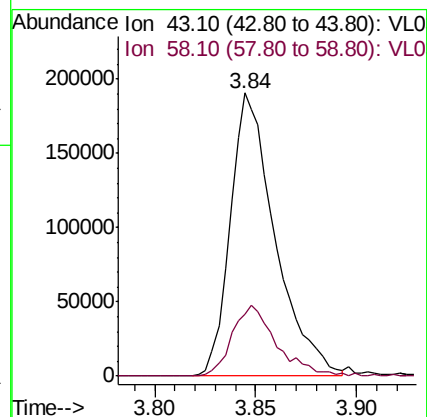
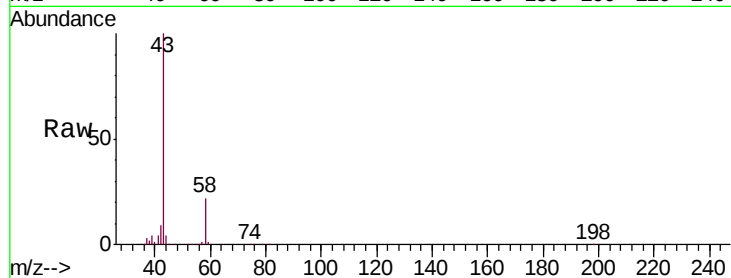




#15
Acetone
Concen: 2.276 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

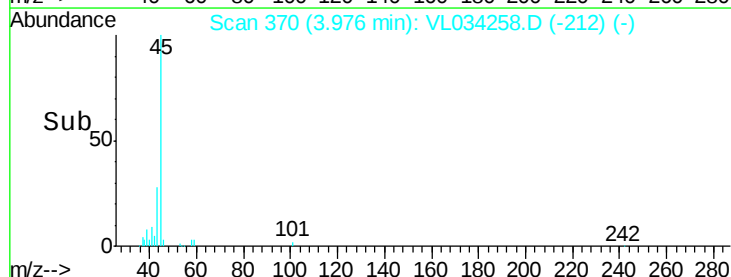
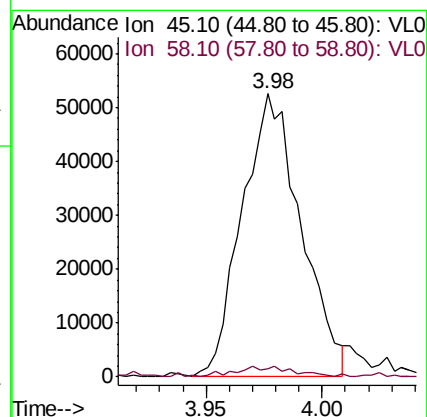
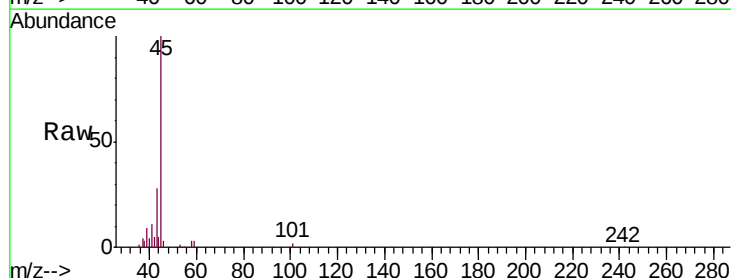
Instrument :
MSVOA_L
ClientSampleId :
OA1

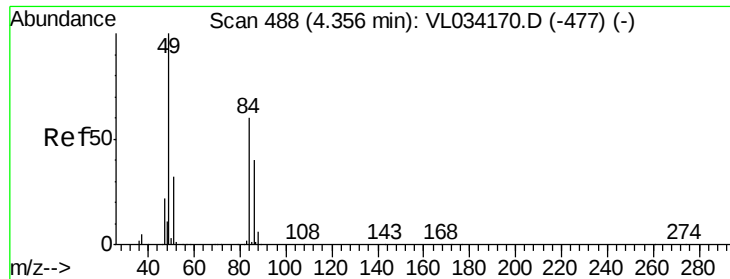
Tgt Ion: 43 Resp: 296087
Ion Ratio Lower Upper
43 100
58 25.1 20.5 30.7



#19
Isopropyl Alcohol
Concen: 1.161 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Tgt Ion: 45 Resp: 92861
Ion Ratio Lower Upper
45 100
58 4.1 1.4 2.0#

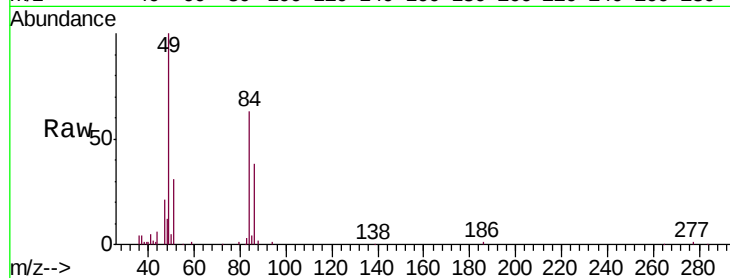




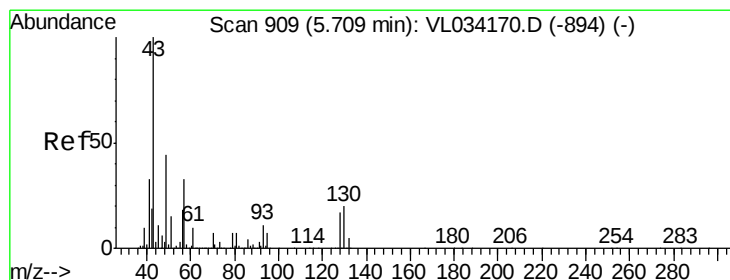
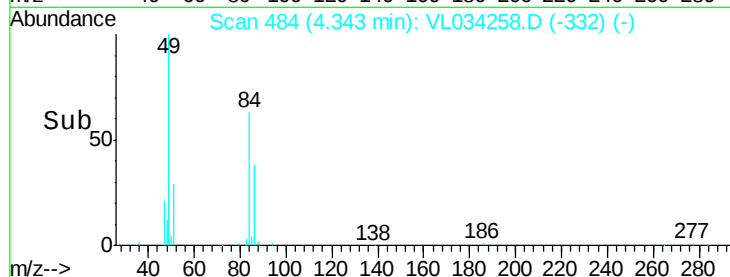
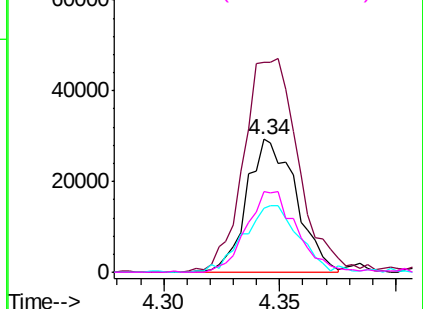
#20
Methylene Chloride
Concen: 1.159 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

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MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84 Resp: 43453
Ion Ratio Lower Upper
84 100
49 156.8 133.8 200.8
51 48.7 43.6 65.4
86 60.4 53.1 79.7

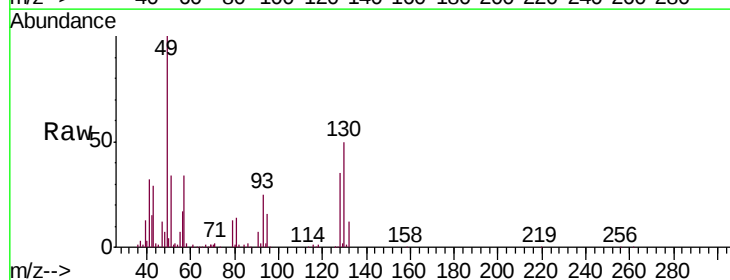


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

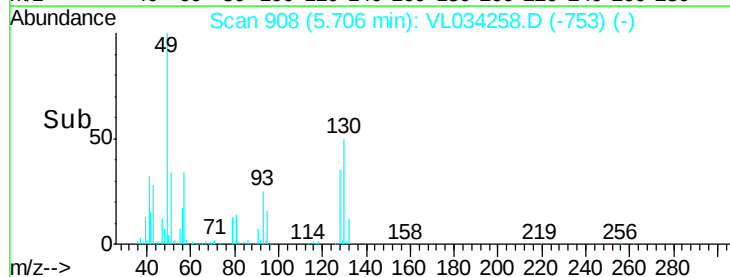
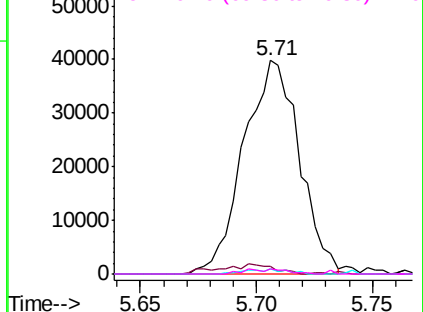


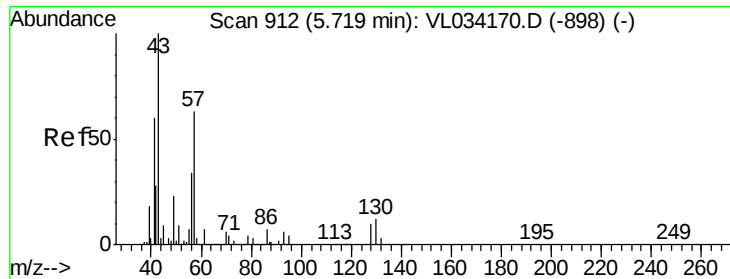
#25
Ethyl Acetate
Concen: 0.271 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Tgt Ion: 43 Resp: 66543
Ion Ratio Lower Upper
43 100
45 4.9 8.4 12.6#
61 1.7 7.2 10.8#
70 2.0 5.3 7.9#



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

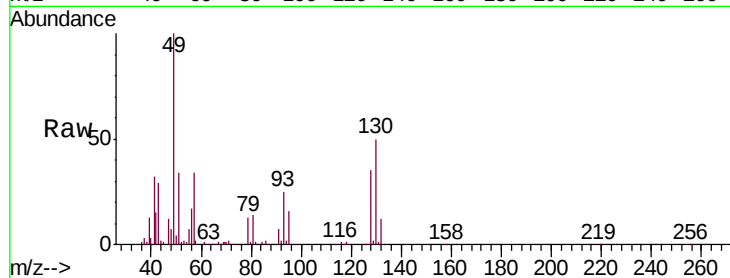




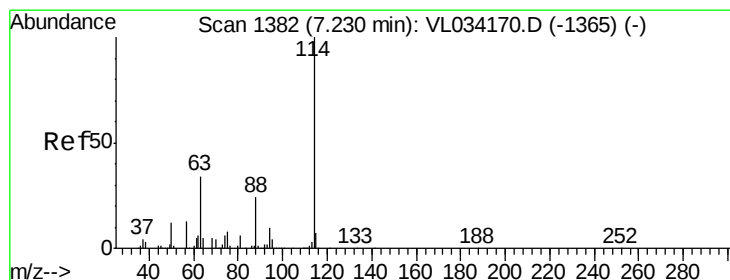
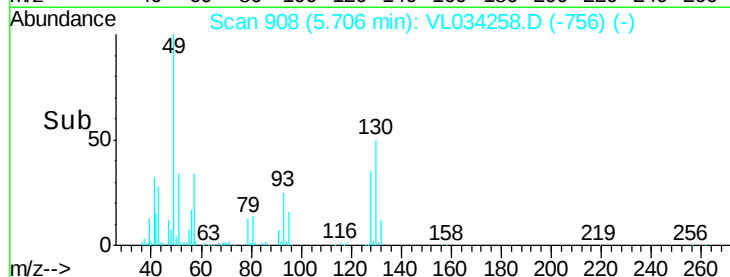
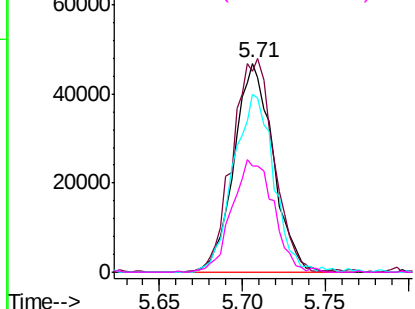
#26
Hexane
Concen: 0.751 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.01 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 57 Resp: 76810
Ion Ratio Lower Upper
57 100
41 109.5 78.5 117.7
43 88.9 189.5 284.3#
56 56.8 43.2 64.8

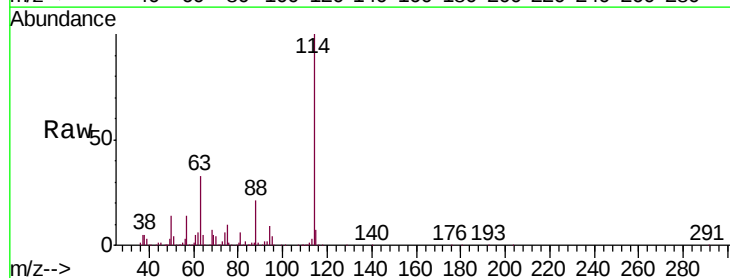


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

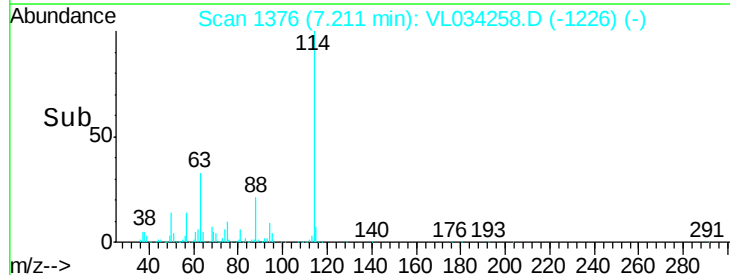
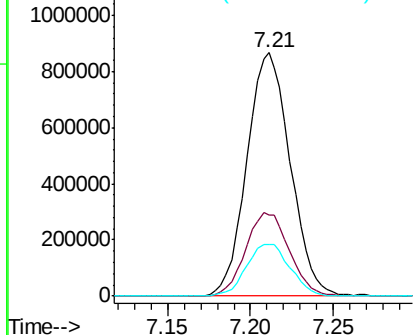


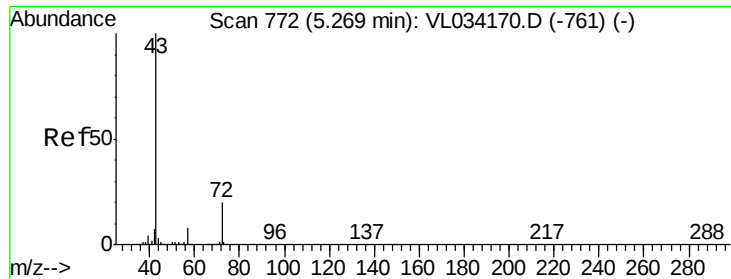
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. -0.02 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Tgt Ion: 114 Resp: 1572956
Ion Ratio Lower Upper
114 100
63 34.6 27.8 41.6
88 21.6 17.1 25.7



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

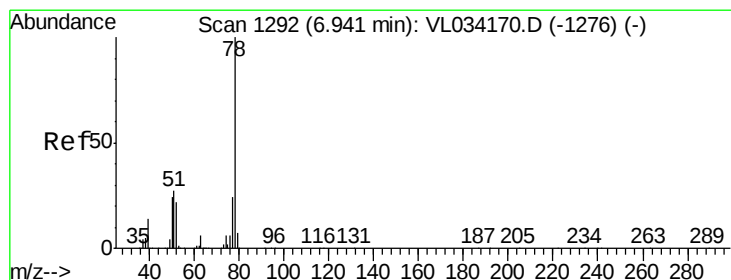
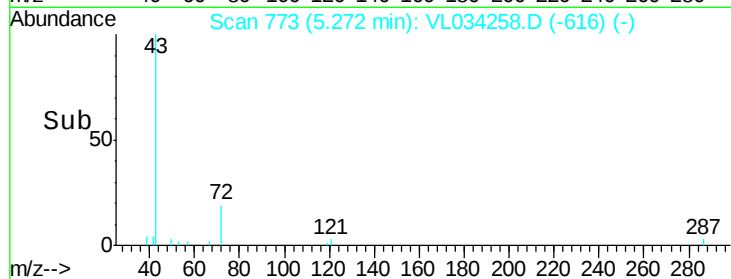
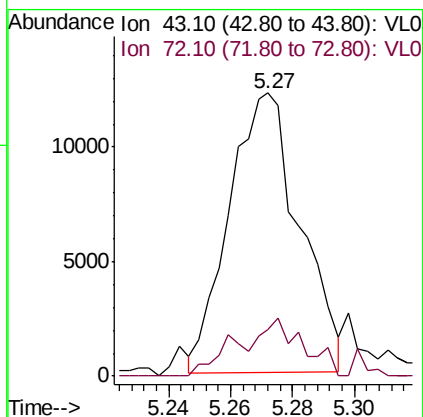
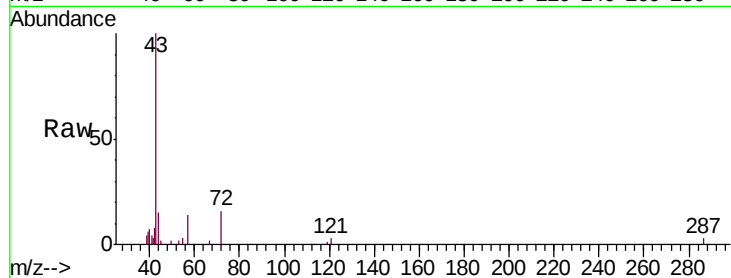




#34
2-Butanone
Concen: 0.121 ppbv
RT: 5.27 min Scan# 773
Delta R.T. 0.00 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

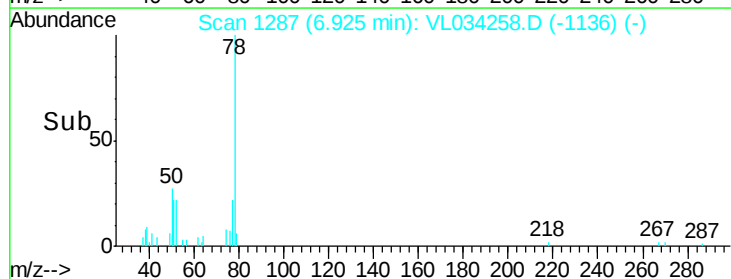
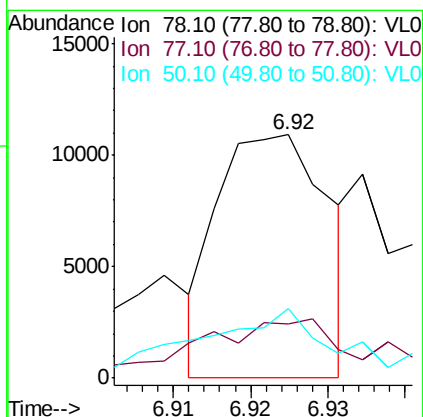
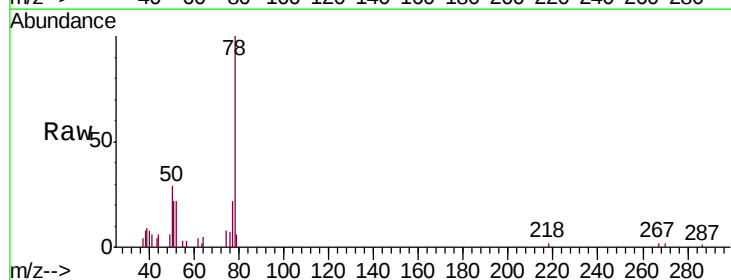
Instrument :
MSVOA_L
ClientSampled :
OA1

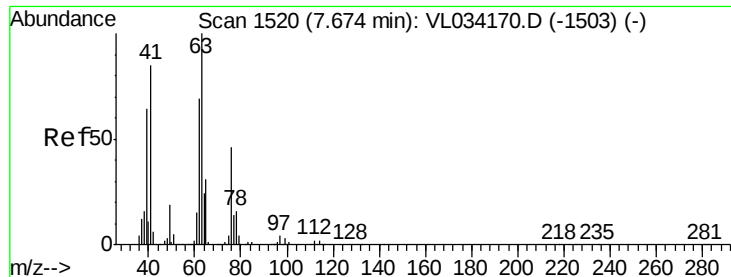
Tgt Ion: 43 Resp: 19368
Ion Ratio Lower Upper
43 100
72 20.6 15.0 22.6



#36
Benzene
Concen: 0.062 ppbv
RT: 6.92 min Scan# 1287
Delta R.T. -0.02 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Tgt Ion: 78 Resp: 10840
Ion Ratio Lower Upper
78 100
77 16.0 19.0 28.4#
50 28.3 18.9 28.3

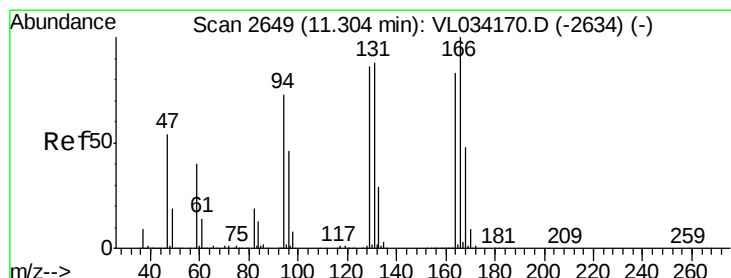
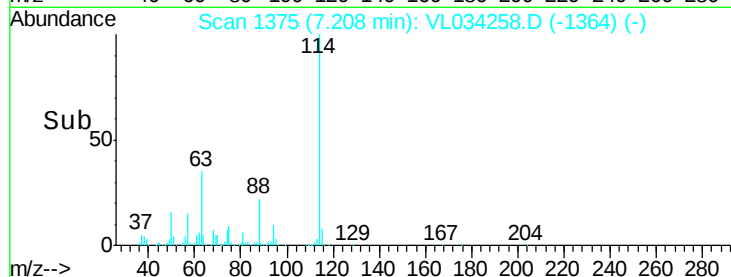
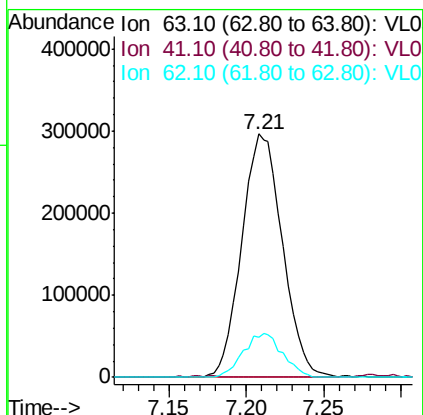
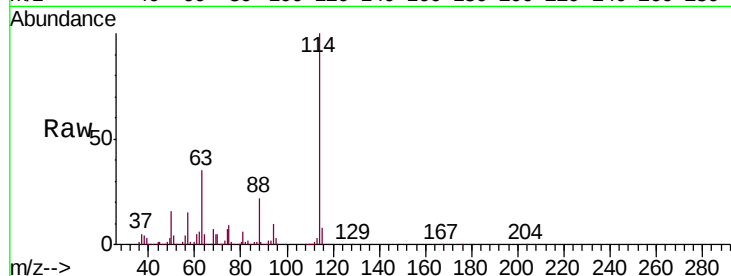




#39
 1,2-Dichloropropane
 Concen: 6.951 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.47 min
 Lab File: VL034258.D
 Acq: 8 Oct 2019 21:11

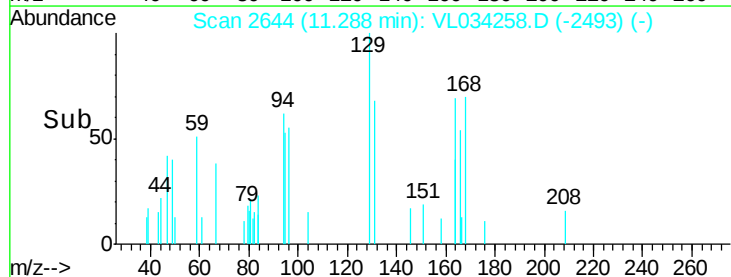
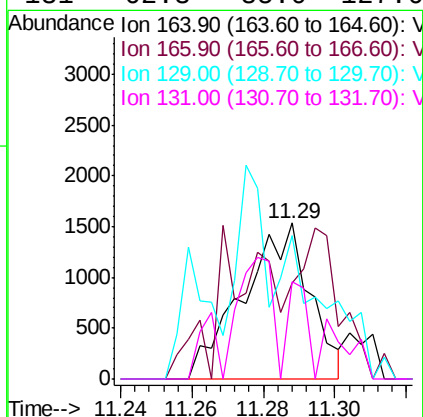
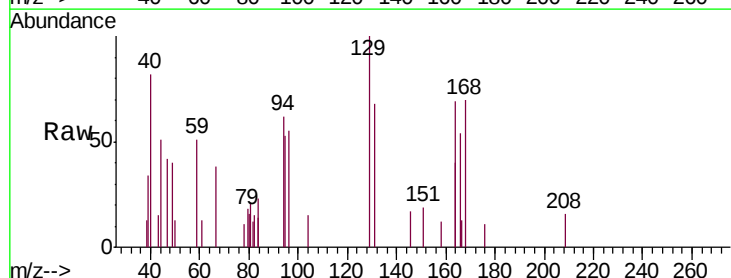
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

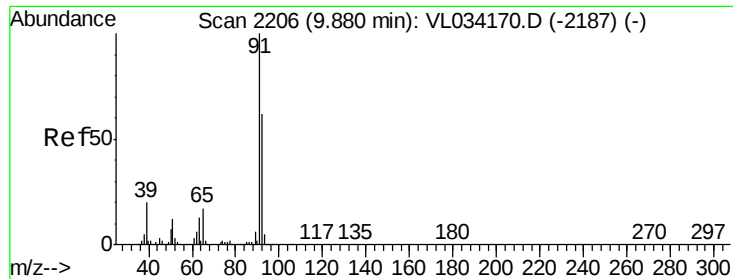
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	68.4	102.6#
62	16.6	55.4	83.2#



#52
 Tetrachloroethene
 Concen: 0.035 ppbv
 RT: 11.29 min Scan# 2644
 Delta R.T. -0.02 min
 Lab File: VL034258.D
 Acq: 8 Oct 2019 21:11

Tgt Ion	Ratio	Lower	Upper
164	100		
166	27.8	96.7	145.1#
129	41.5	82.8	124.2#
131	62.3	85.0	127.6#





#53

Toluene

Concen: 0.533 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.02 min

Lab File: VL034258.D

Acq: 8 Oct 2019 21:11

Instrument :

MSVOA_L

ClientSampleId :

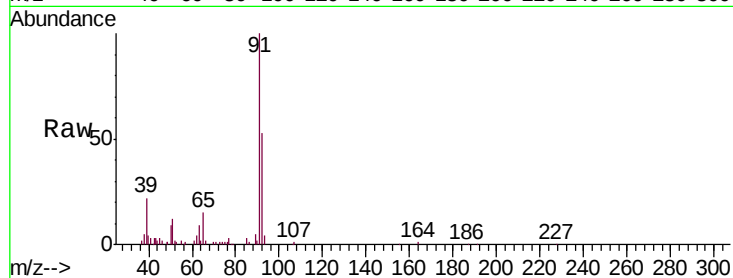
QA1

Tgt Ion: 91 Resp: 101135

Ion Ratio Lower Upper

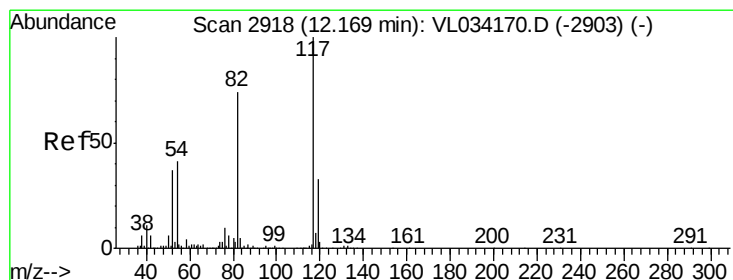
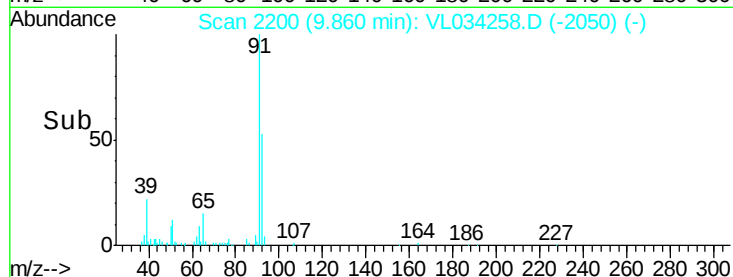
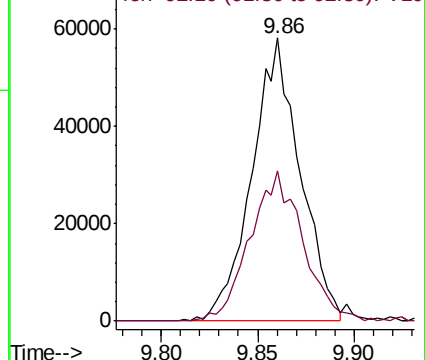
91 100

92 57.7 49.0 73.6



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: 12.15 min Scan# 2912

Delta R.T. -0.02 min

Lab File: VL034258.D

Acq: 8 Oct 2019 21:11

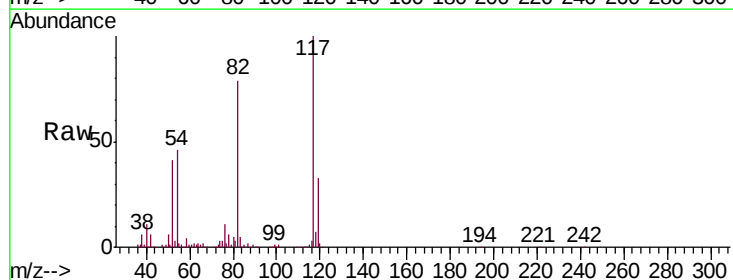
Tgt Ion: 117 Resp: 1630902

Ion Ratio Lower Upper

117 100

82 77.9 58.2 87.4

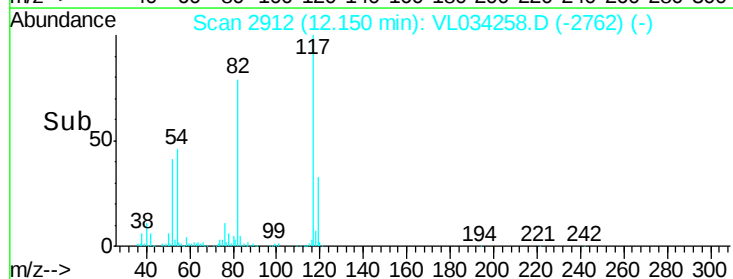
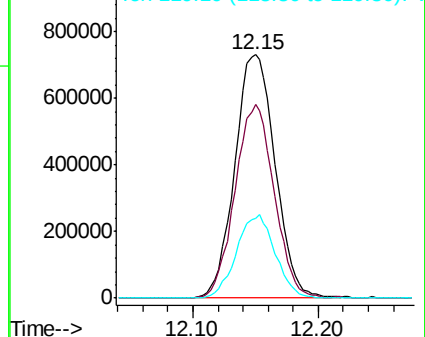
119 33.2 23.7 35.5

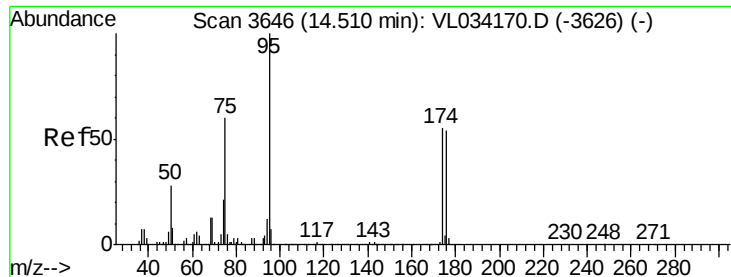


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.307 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. -0.02 min

Lab File: VL034258.D

Acq: 8 Oct 2019 21:11

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 95 Resp: 1460626

Ion Ratio Lower Upper

95 100

174 53.0 45.1 67.7

175 3.8 3.3 4.9

