

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033518.D
 Acq On : 30 Mar 2019 1:36
 Operator : SY/AP
 Sample : K2042-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 03:31:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	829517	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1907565	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1873679	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1421974	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

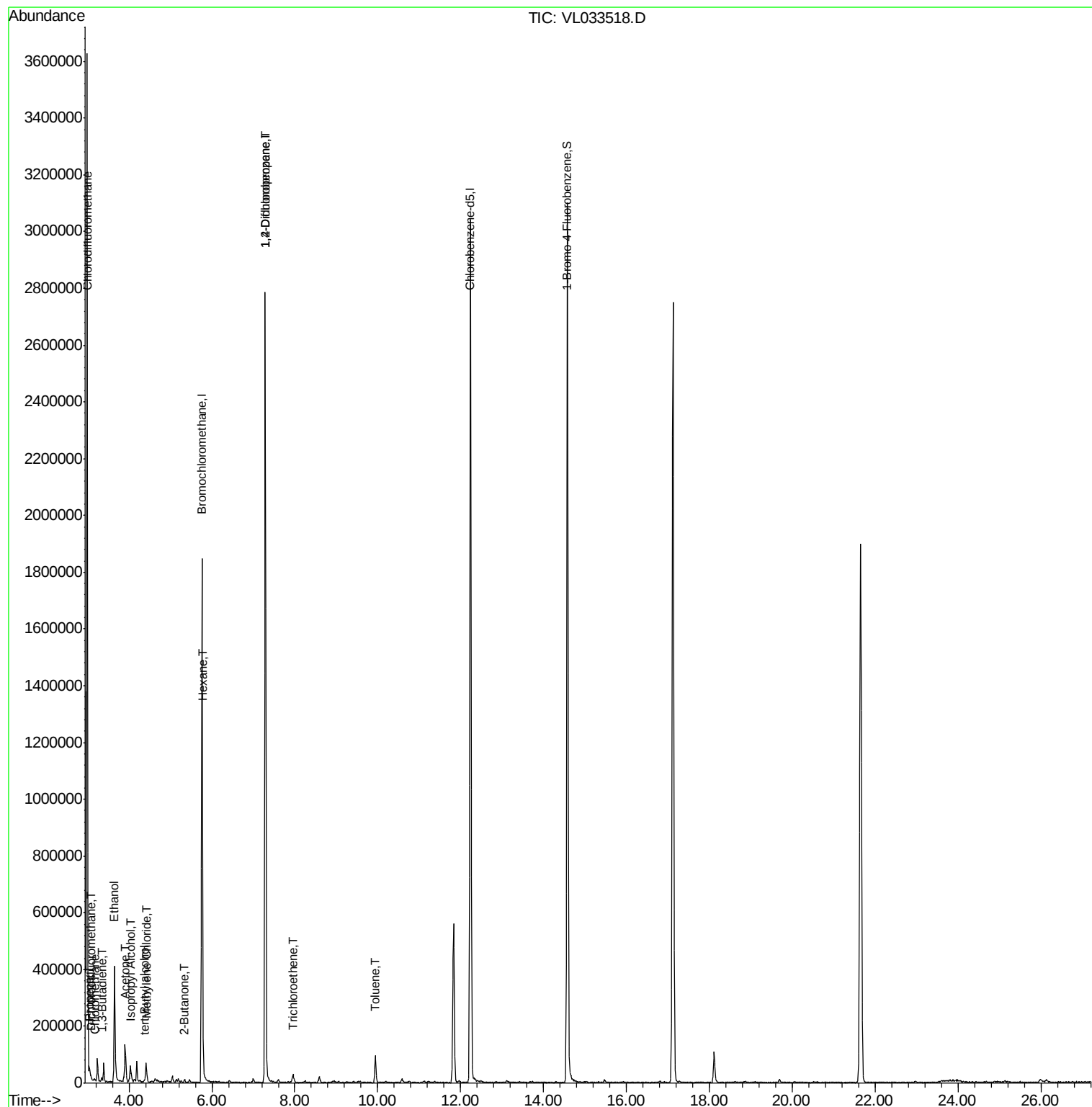
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	8827	0.07	ppbv	100
3) Chlorodifluoromethane	2.99	51	2133531	22.34	ppbv #	57
4) Chloromethane	3.17	50	2907	0.06	ppbv	95
9) Propene	3.05	41	6617	0.16	ppbv	94
13) Ethanol	3.65	45	417732	40.25	ppbv	64
15) Acetone	3.90	43	131651	1.32	ppbv	98
16) 1,3-Butadiene	3.35	39	4306	0.11	ppbv #	18
17) tert-Butyl alcohol	4.37	59	1723	0.09	ppbv #	73
19) Isopropyl Alcohol	4.03	45	61109	0.97	ppbv #	93
20) Methylene Chloride	4.41	84	22381	0.53	ppbv	87
26) Hexane	5.78	57	9123	0.11	ppbv #	43
34) 2-Butanone	5.34	43	9745	0.09	ppbv	96
38) Trichloroethene	7.96	130	4189	0.07	ppbv #	21
39) 1,2-Dichloropropane	7.29	63	497195	7.93	ppbv #	23
53) Toluene	9.94	91	66774	0.36	ppbv	97

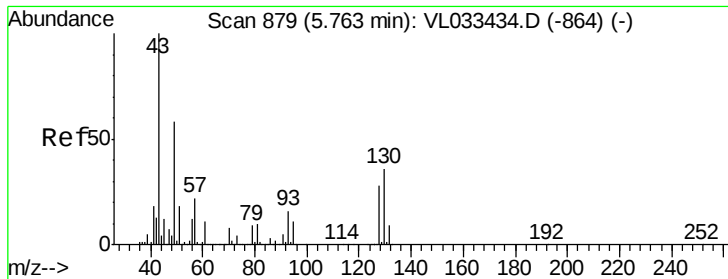
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Mar 30 03:31:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

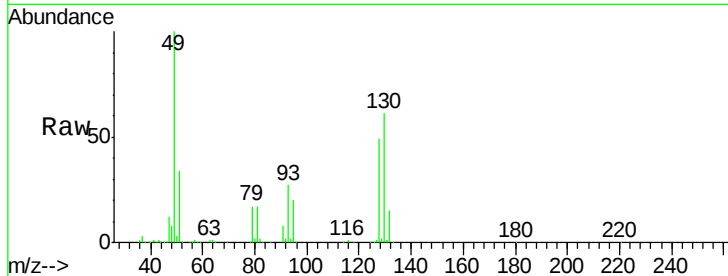
Lab File: VL033518.D

Acq: 30 Mar 2019 1:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 829517

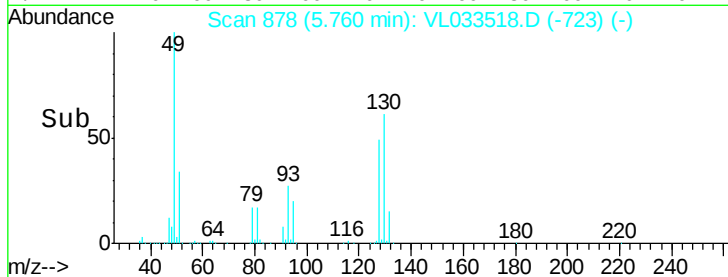
Ion	Ratio	Lower	Upper
49	100		
128	48.7	24.0	72.0
130	62.3	31.2	93.6



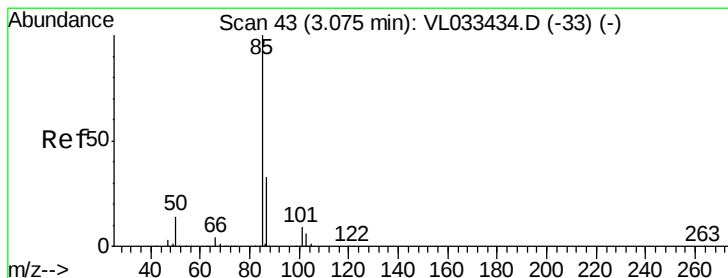
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.07 ppbv

RT: 3.08 min Scan# 45

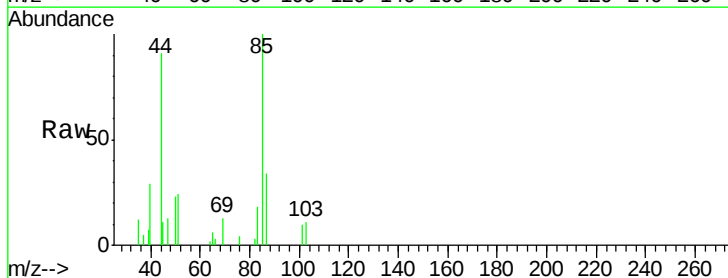
Delta R.T. 0.01 min

Lab File: VL033518.D

Acq: 30 Mar 2019 1:36

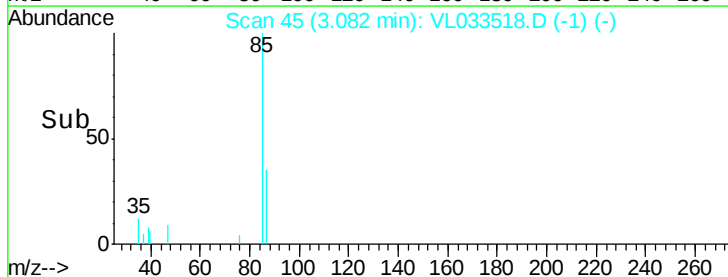
Tgt Ion: 85 Resp: 8827

Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.7	40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



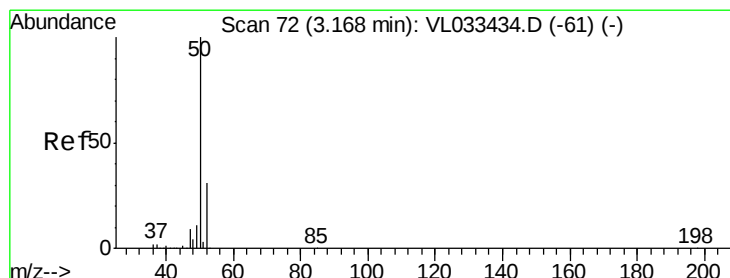
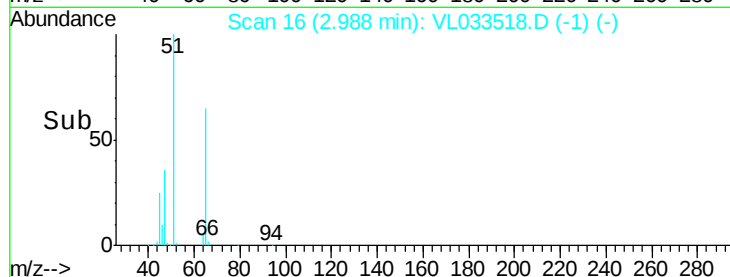
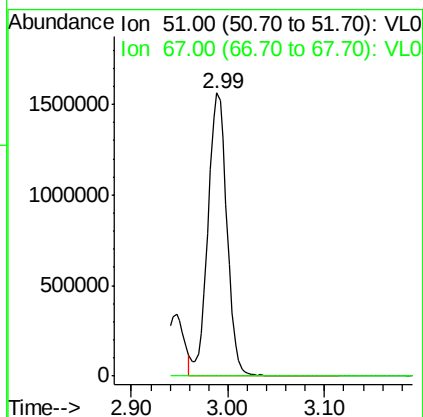
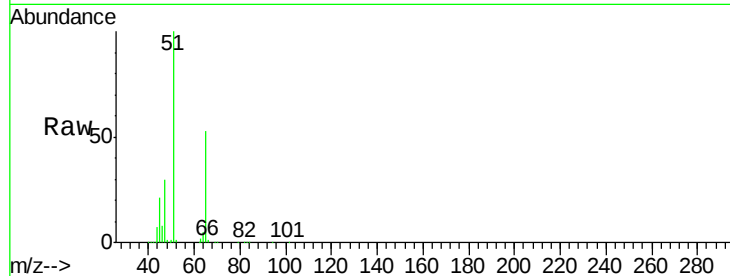
Time-->



#3
Chlorodifluoromethane
Concen: 22.34 ppbv
RT: 2.99 min Scan# 16
Delta R.T. -0.03 min
Lab File: VL033518.D
Acq: 30 Mar 2019 1:36

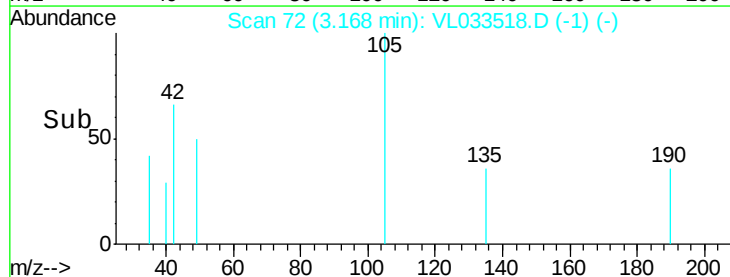
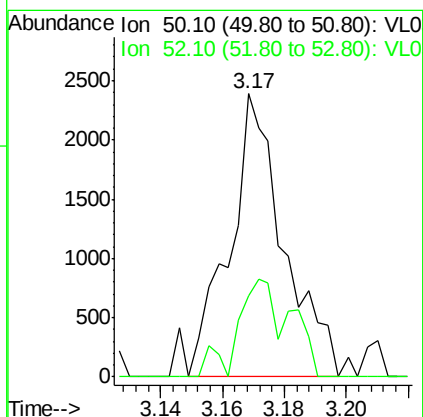
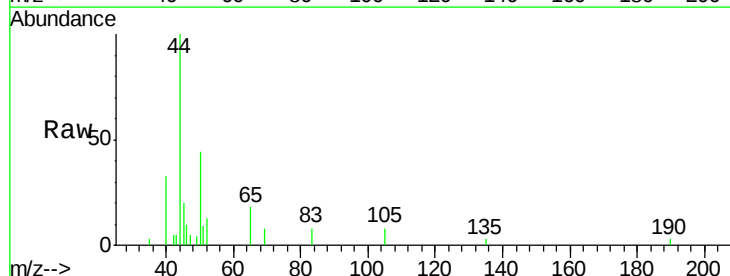
Instrument :
MSVOA_L
ClientSampleId :

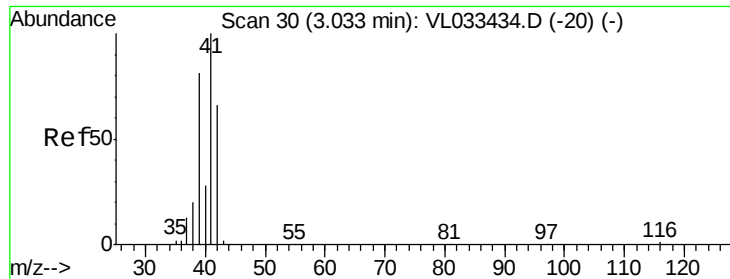
Tot Ion: 51 Resp: 2133531
Ion Ratio Lower Upper
51 100
67 0.1 15.7 23.5#



#4
Chloromethane
Concen: 0.06 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033518.D
Acq: 30 Mar 2019 1:36

Tgt Ion: 50 Resp: 2907
Ion Ratio Lower Upper
50 100
52 28.6 25.0 37.6





#9

Propene

Concen: 0.16 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033518.D

Acq: 30 Mar 2019 1:36

Instrument :

MSVOA_L

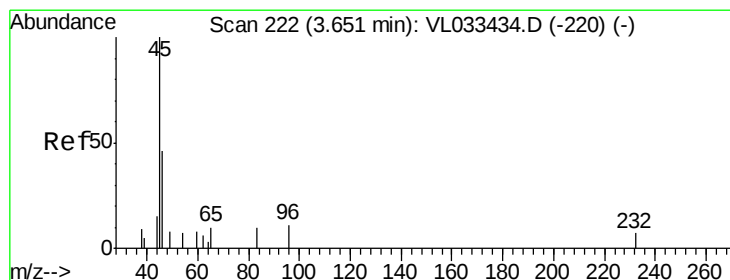
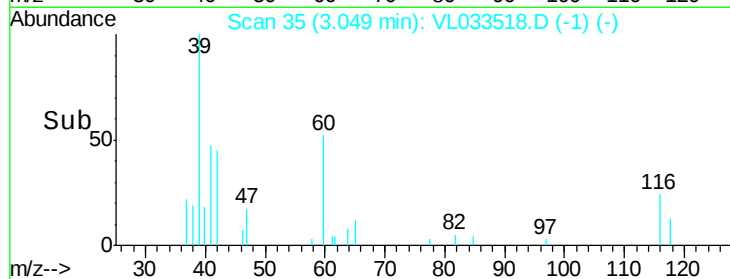
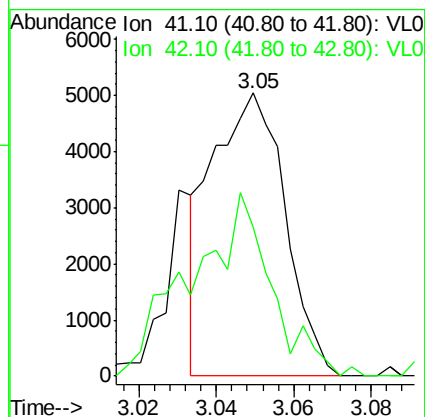
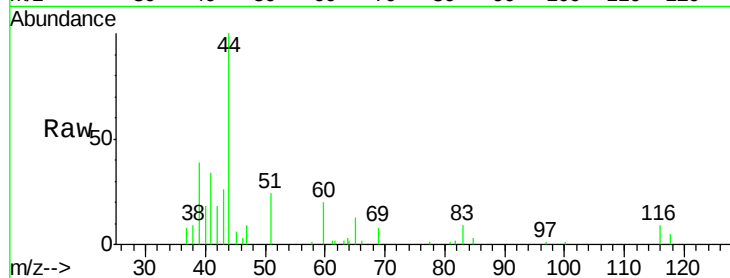
ClientSampleId :

Tot Ion: 41 Resp: 6617

Ion Ratio Lower Upper

41 100

42 72.1 53.9 80.9



#13

Ethanol

Concen: 40.25 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033518.D

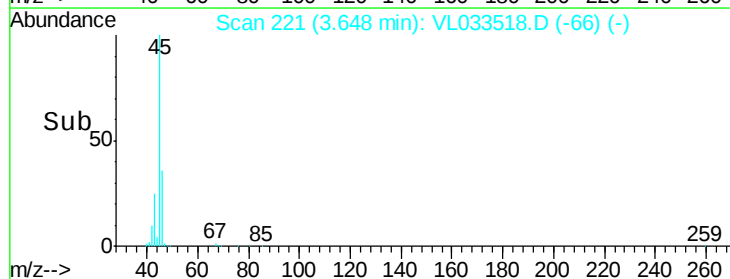
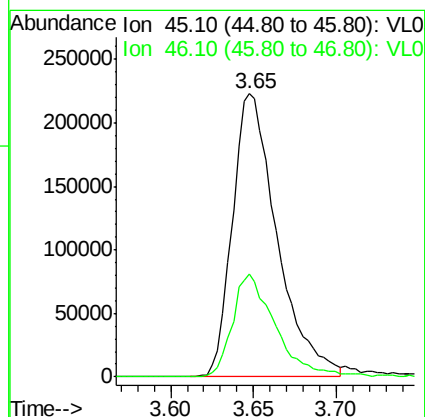
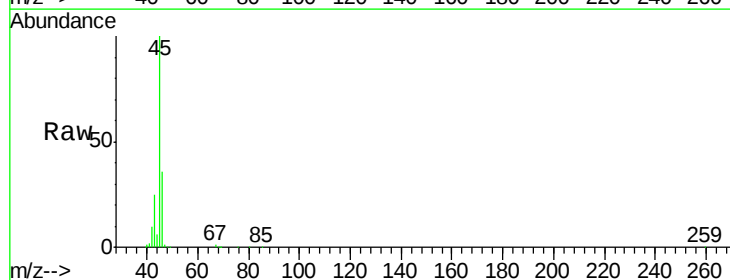
Acq: 30 Mar 2019 1:36

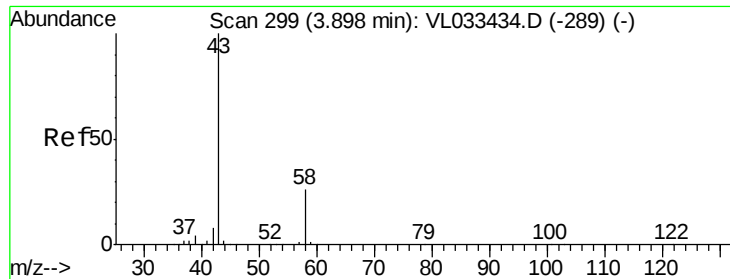
Tgt Ion: 45 Resp: 417732

Ion Ratio Lower Upper

45 100

46 35.7 25.4 101.8





#15

Acetone

Concen: 1.32 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033518.D

Acq: 30 Mar 2019 1:36

Instrument :

MSVOA_L

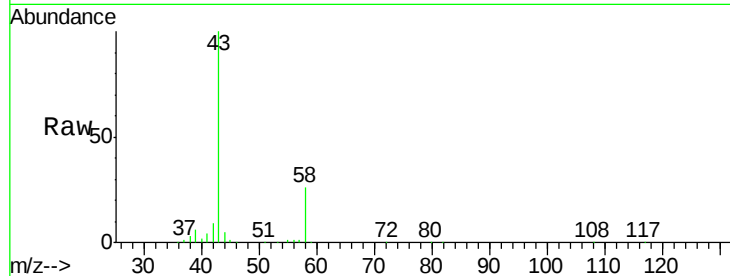
ClientSampled :

Tot Ion: 43 Resp: 131651

Ion Ratio Lower Upper

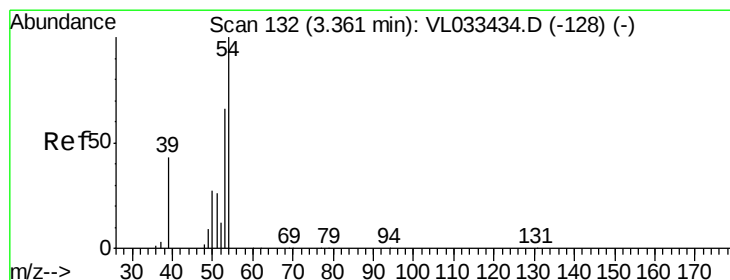
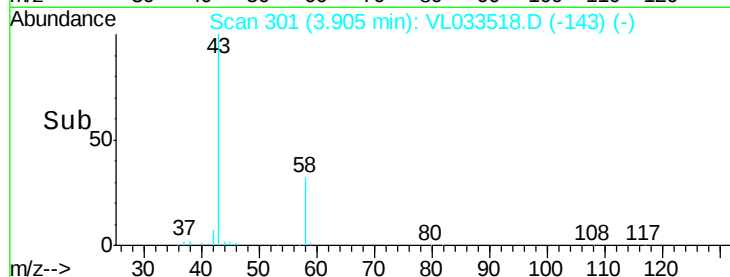
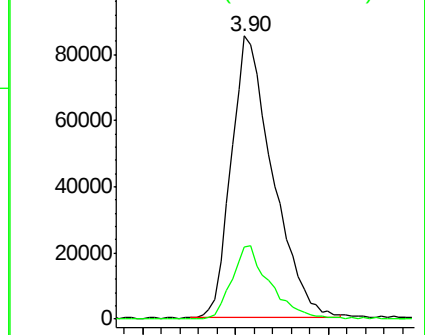
43 100

58 24.5 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.11 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.02 min

Lab File: VL033518.D

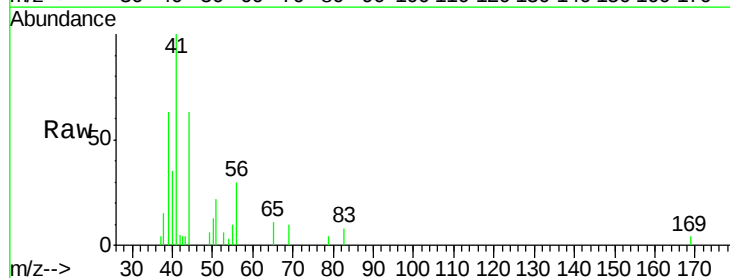
Acq: 30 Mar 2019 1:36

Tgt Ion: 39 Resp: 4306

Ion Ratio Lower Upper

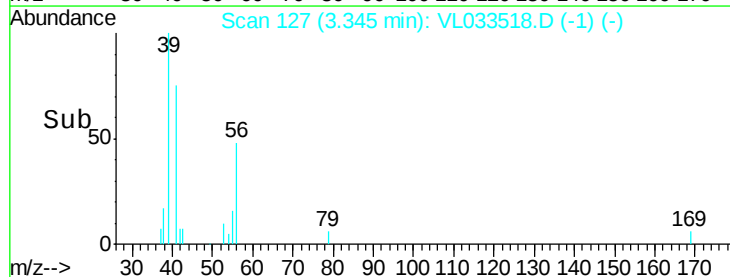
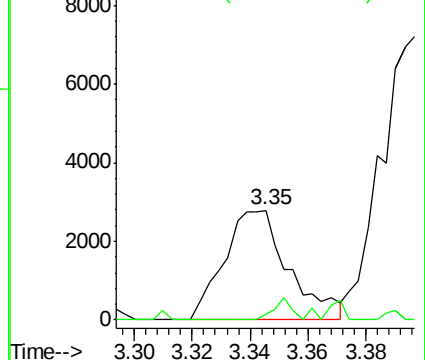
39 100

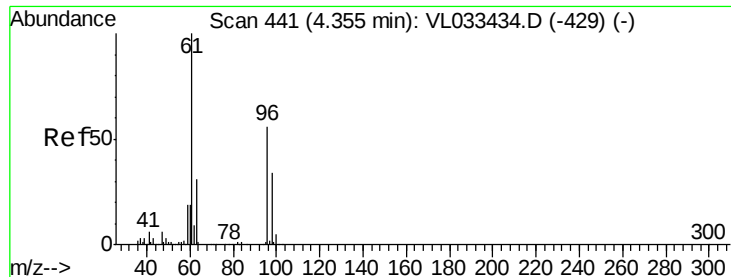
54 10.9 69.4 104.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



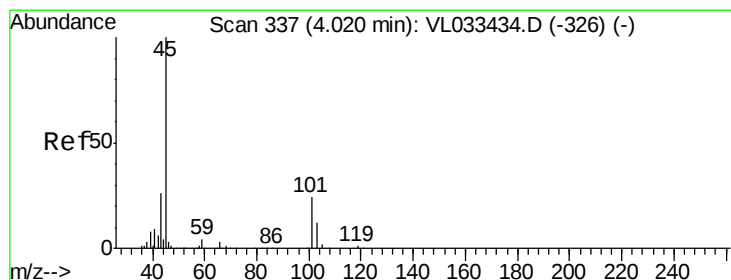
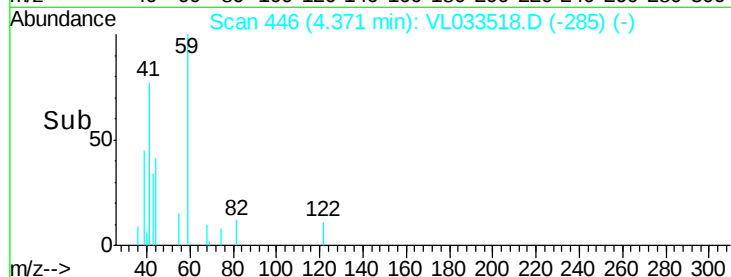
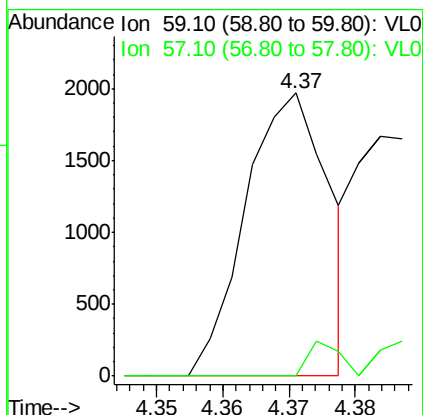
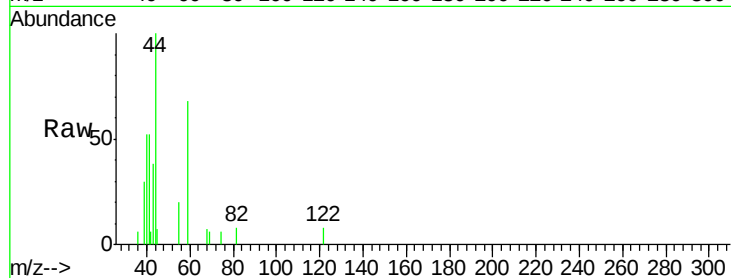


#17

tert-Butyl alcohol
Concen: 0.09 ppbv
RT: 4.37 min Scan# 446
Delta R.T. 0.02 min
Lab File: VL033518.D
Acq: 30 Mar 2019 1:36

Instrument :
MSVOA_L
ClientSampleId :

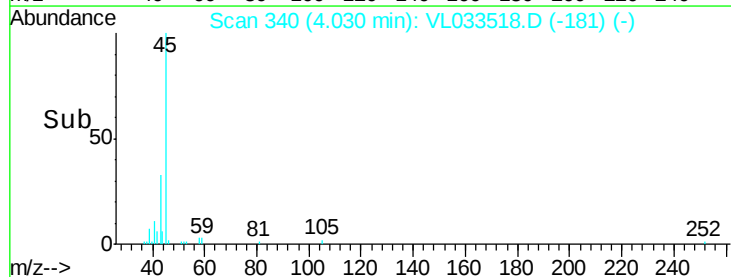
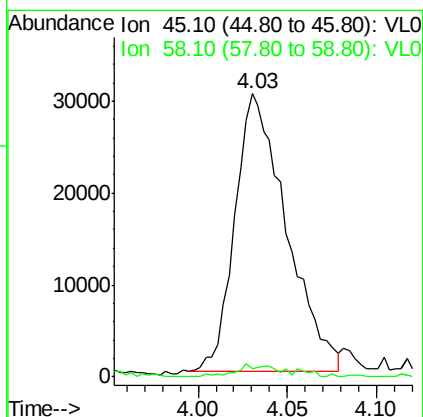
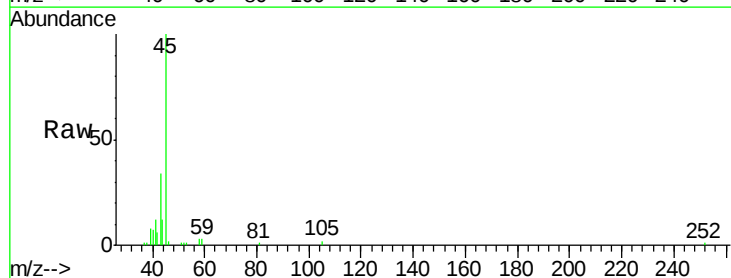
Tot Ion: 59 Resp: 1723
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

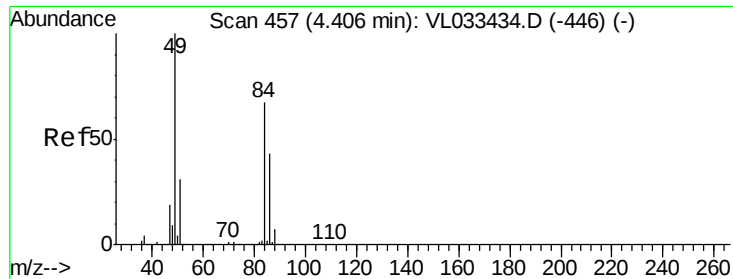


#19

Isopropyl Alcohol
Concen: 0.97 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.01 min
Lab File: VL033518.D
Acq: 30 Mar 2019 1:36

Tgt Ion: 45 Resp: 61109
Ion Ratio Lower Upper
45 100
58 4.3 1.4 2.2#

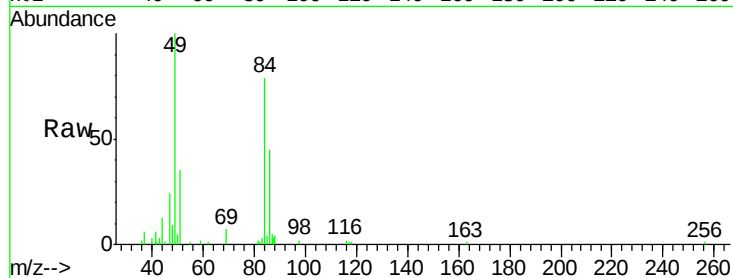




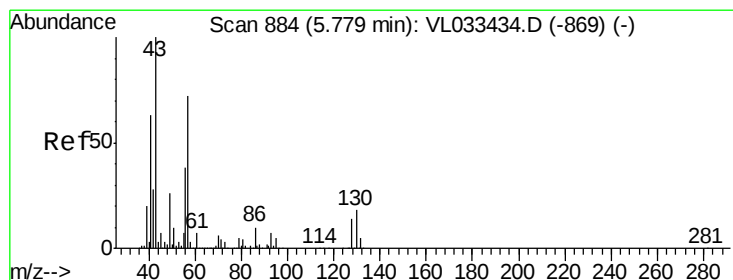
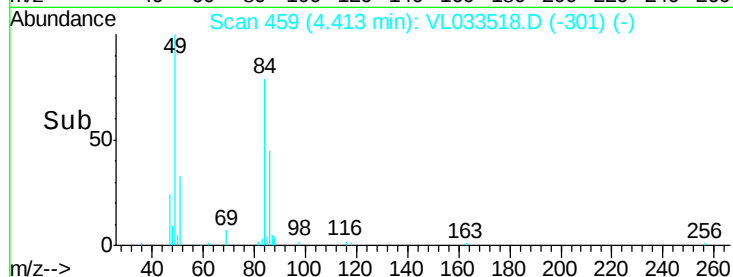
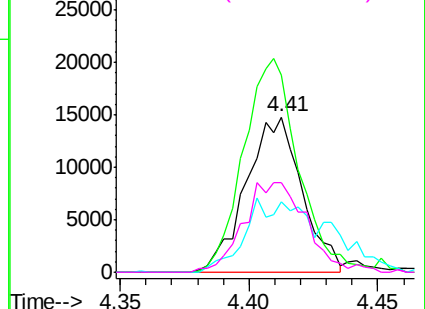
#20
Methvlene Chloride
Concen: 0.53 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.01 min
Lab File: VL033518.D
Acq: 30 Mar 2019 1:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 22381
Ion Ratio Lower Upper
84 100
49 126.8 120.0 180.0
51 44.9 36.7 55.1
86 57.3 51.9 77.9

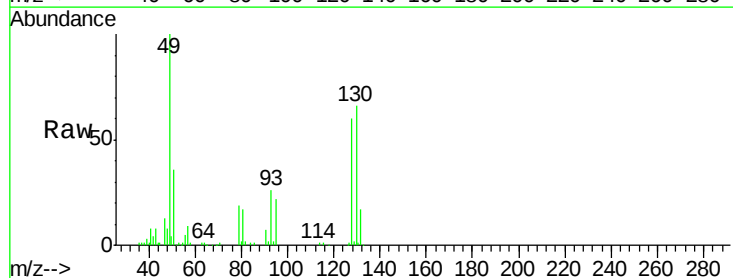


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

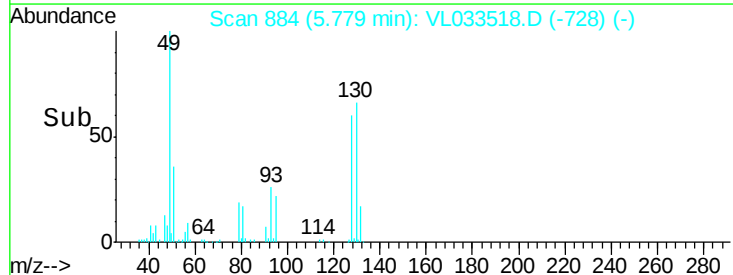
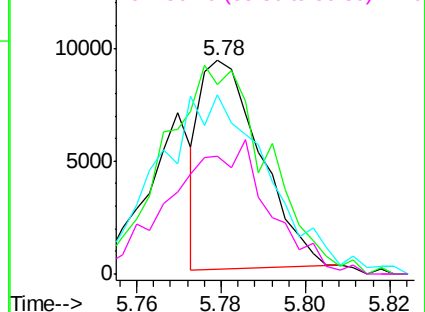


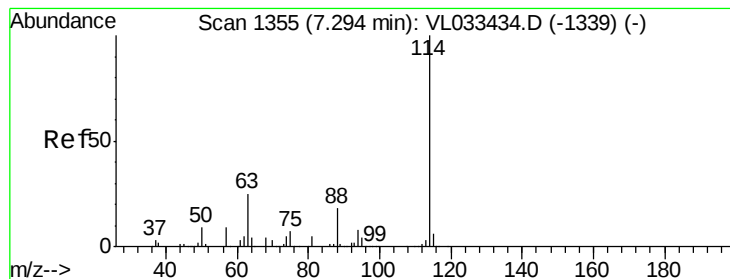
#26
Hexane
Concen: 0.11 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033518.D
Acq: 30 Mar 2019 1:36

Tgt Ion: 57 Resp: 9123
Ion Ratio Lower Upper
57 100
41 177.9 70.7 106.1#
43 165.3 182.6 274.0#
56 104.5 42.0 63.0#



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: 10.00 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033518.D

Acq: 30 Mar 2019 1:36

Instrument :

MSVOA_L

ClientSampled :

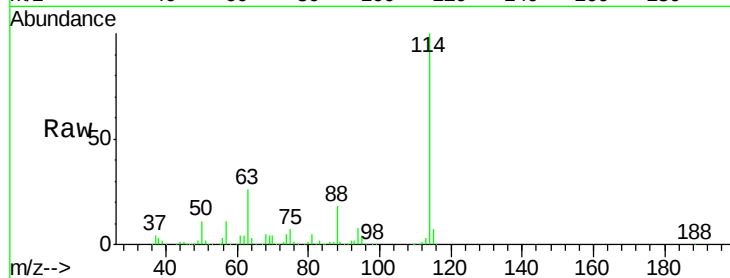
Tot Ion:114 Resp: 1907565

Ion Ratio Lower Upper

114 100

63 26.1 21.5 32.3

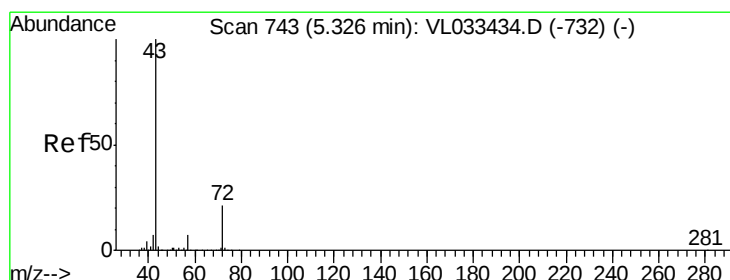
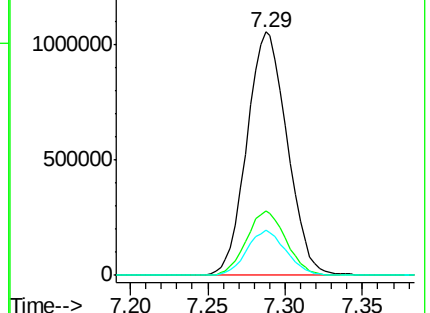
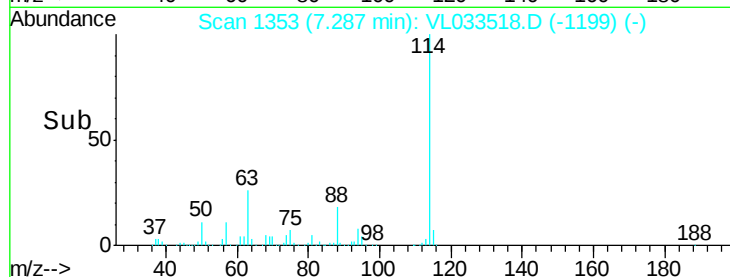
88 18.1 14.5 21.7



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: 0.09 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.01 min

Lab File: VL033518.D

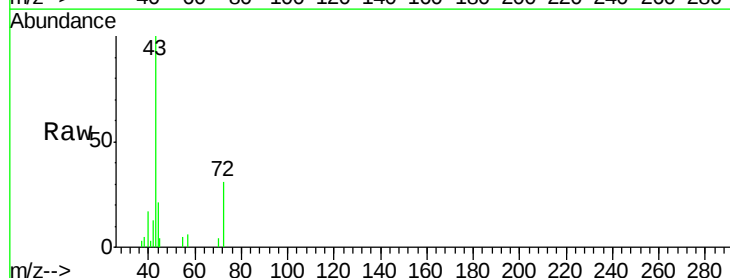
Acq: 30 Mar 2019 1:36

Tgt Ion: 43 Resp: 9745

Ion Ratio Lower Upper

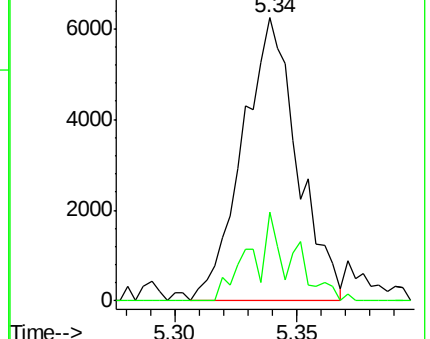
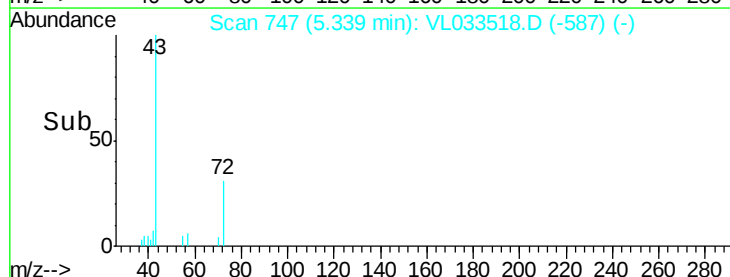
43 100

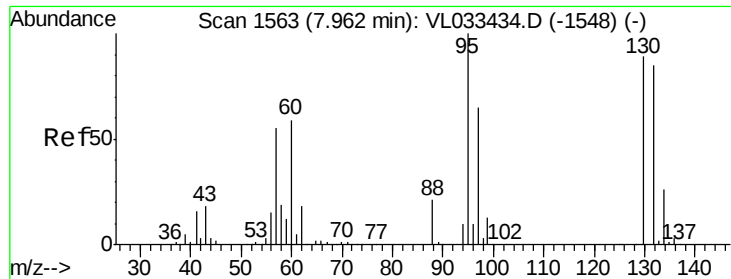
72 23.5 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

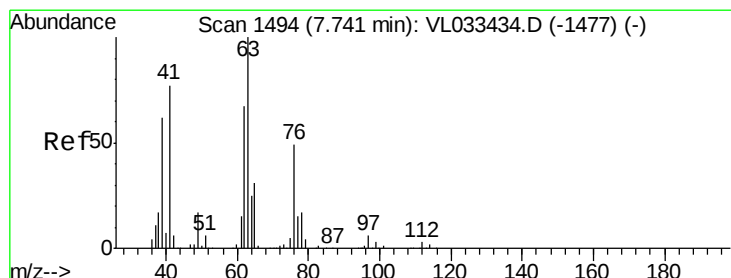
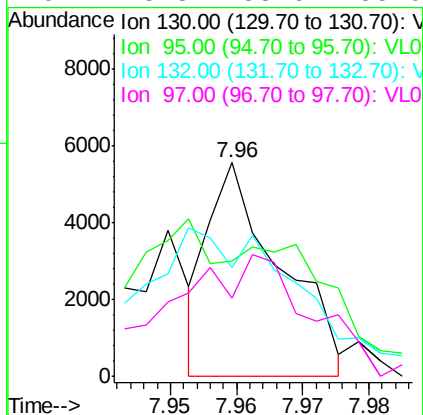
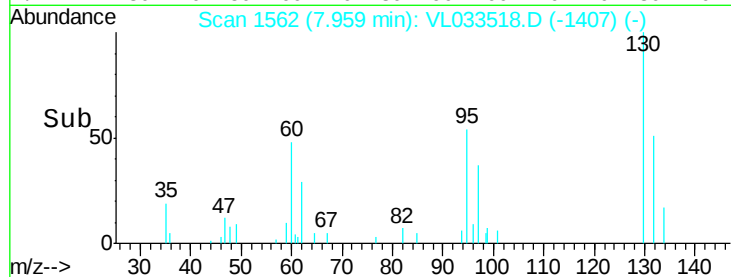
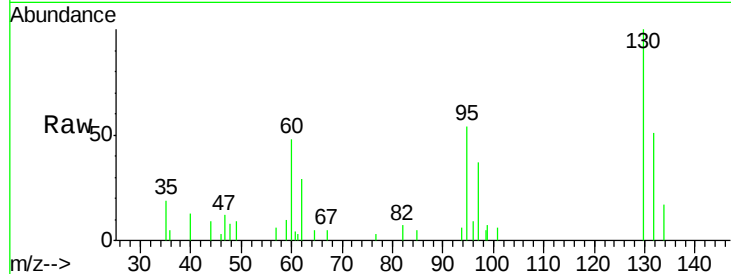




#38
 Trichloroethene
 Concen: 0.07 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033518.D
 Acq: 30 Mar 2019 1:36

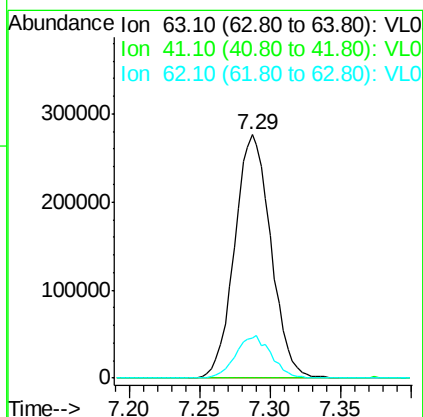
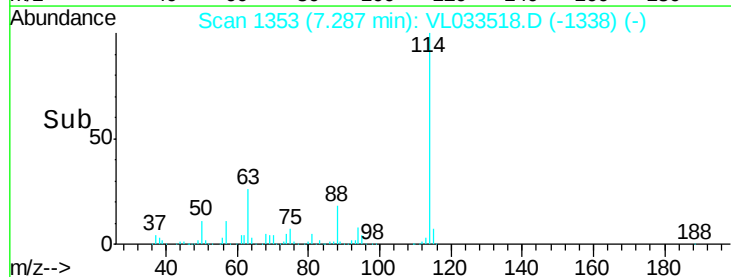
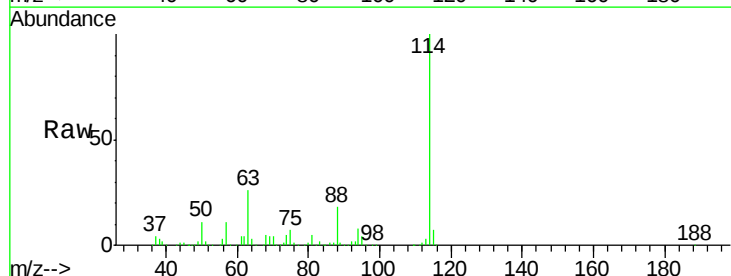
Instrument :
 MSVOA_L
 ClientSampled :

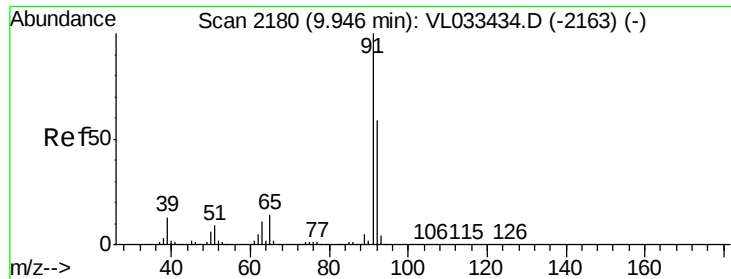
Tot Ion:	130	Resp:	4189
Ion	Ratio	Lower	Upper
130	100		
95	14.0	89.8	134.8#
132	32.8	76.6	115.0#
97	8.8	58.6	88.0#



#39
 1,2-Dichloropropane
 Concen: 7.93 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033518.D
 Acq: 30 Mar 2019 1:36

Tgt Ion:	63	Resp:	497195
Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.2	91.8#
62	16.7	54.0	81.0#





#53

Toluene

Concen: 0.36 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033518.D

Acq: 30 Mar 2019 1:36

Instrument :

MSVOA_L

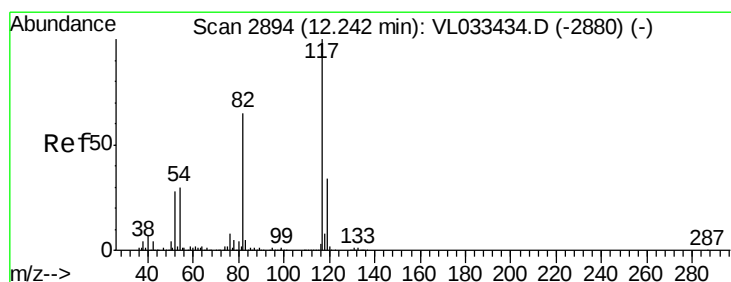
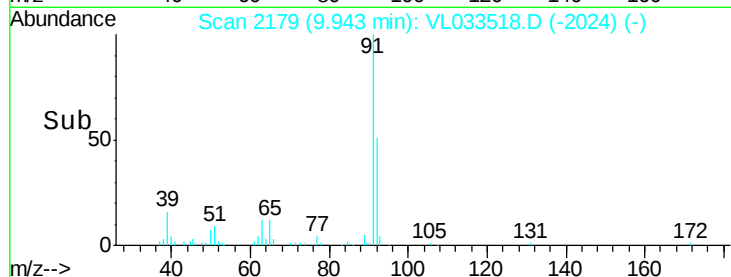
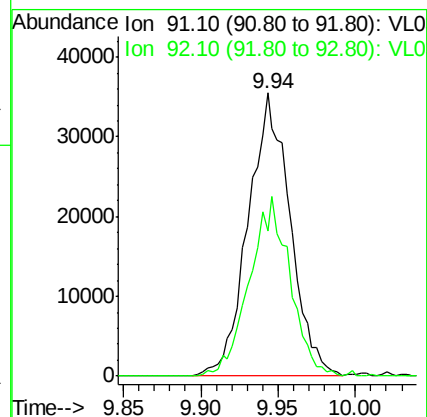
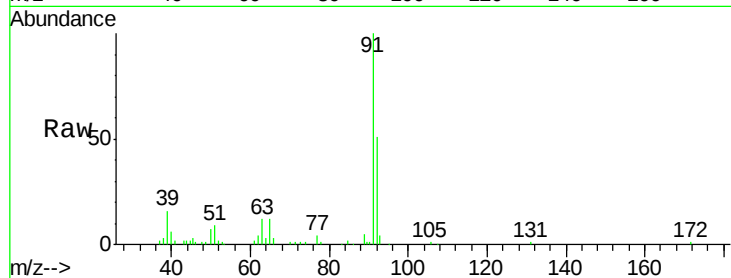
ClientSampleId :

Tot Ion: 91 Resp: 66774

Ion Ratio Lower Upper

91 100

92 61.5 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033518.D

Acq: 30 Mar 2019 1:36

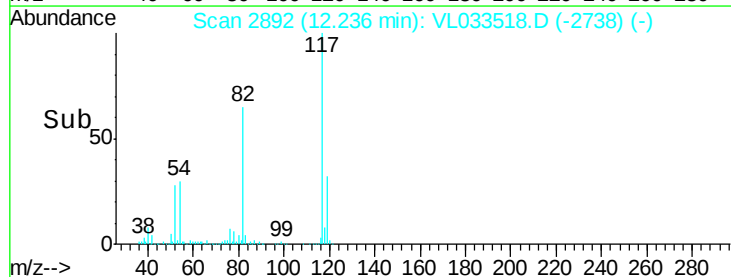
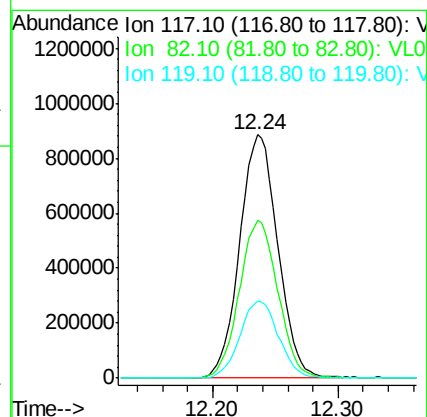
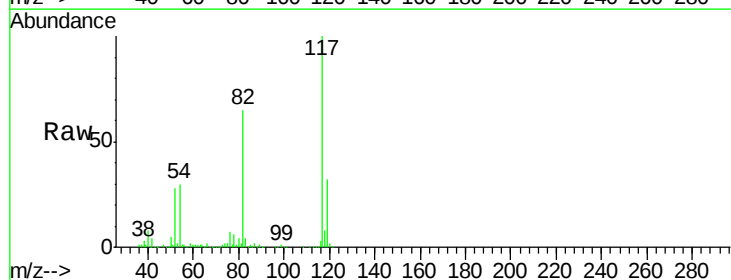
Tgt Ion: 117 Resp: 1873679

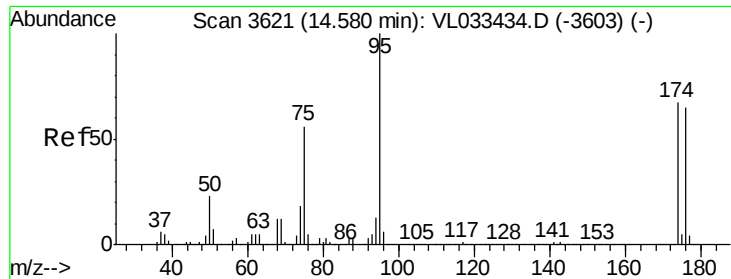
Ion Ratio Lower Upper

117 100

82 66.0 51.5 77.3

119 32.3 25.5 38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.68 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033518.D

Acq: 30 Mar 2019 1:36

Instrument :

MSVOA_L

ClientSampleId :

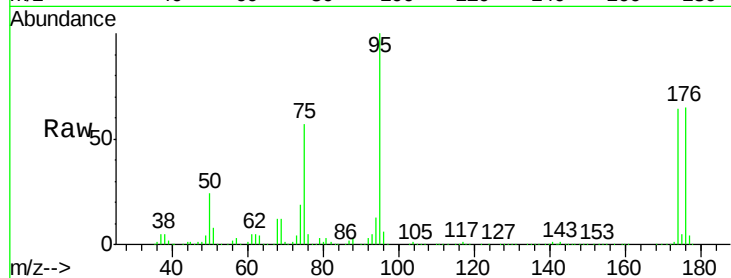
Tot Ion: 95 Resp: 1421974

Ion Ratio Lower Upper

95 100

174 65.9 52.9 79.3

175 4.8 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

