

Data File : VL034273.D
Acq On : 9 Oct 2019 9:58
Operator : SY/AP
Sample : K5243-01DL2 80X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

Quant Time: Oct 10 01:22:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	991794	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1791020	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1817416	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1566479	9.92	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	17734	0.121	ppbv #	88
3) Chlorodifluoromethane	2.95	51	4070	0.035	ppbv #	70
9) Propene	2.99	41	13145	0.229	ppbv	85
10) Heptane	8.16	43	17942	0.120	ppbv #	61
13) Ethanol	3.96	45	717847	51.670	ppbv #	40
15) Acetone	3.84	43	953839	7.176	ppbv	98
19) Isopropyl Alcohol	3.96	45	717847	8.782	ppbv #	99
20) Methylene Chloride	4.34	84	18715	0.488	ppbv #	70
25) Ethyl Acetate	5.70	43	55736	0.222	ppbv #	76
26) Hexane	5.70	57	70688	0.676	ppbv #	42
34) 2-Butanone	5.26	43	70631	0.386	ppbv	95
38) Trichloroethene	7.88	130	166816	2.360	ppbv	99
39) 1,2-Dichloropropane	7.21	63	551048	6.200	ppbv #	19
52) Tetrachloroethene	11.28	164	1212294	18.550	ppbv	98
53) Toluene	9.84	91	7250	0.034	ppbv #	20
58) Ethyl Benzene	13.03	91	24789	0.085	ppbv	93
59) m/p-Xylene	13.05	91	9243	0.038	ppbv #	1
60) o-Xylene	13.75	91	13558	0.056	ppbv #	33

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

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Misc : 400ml/MSV0A_L

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Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

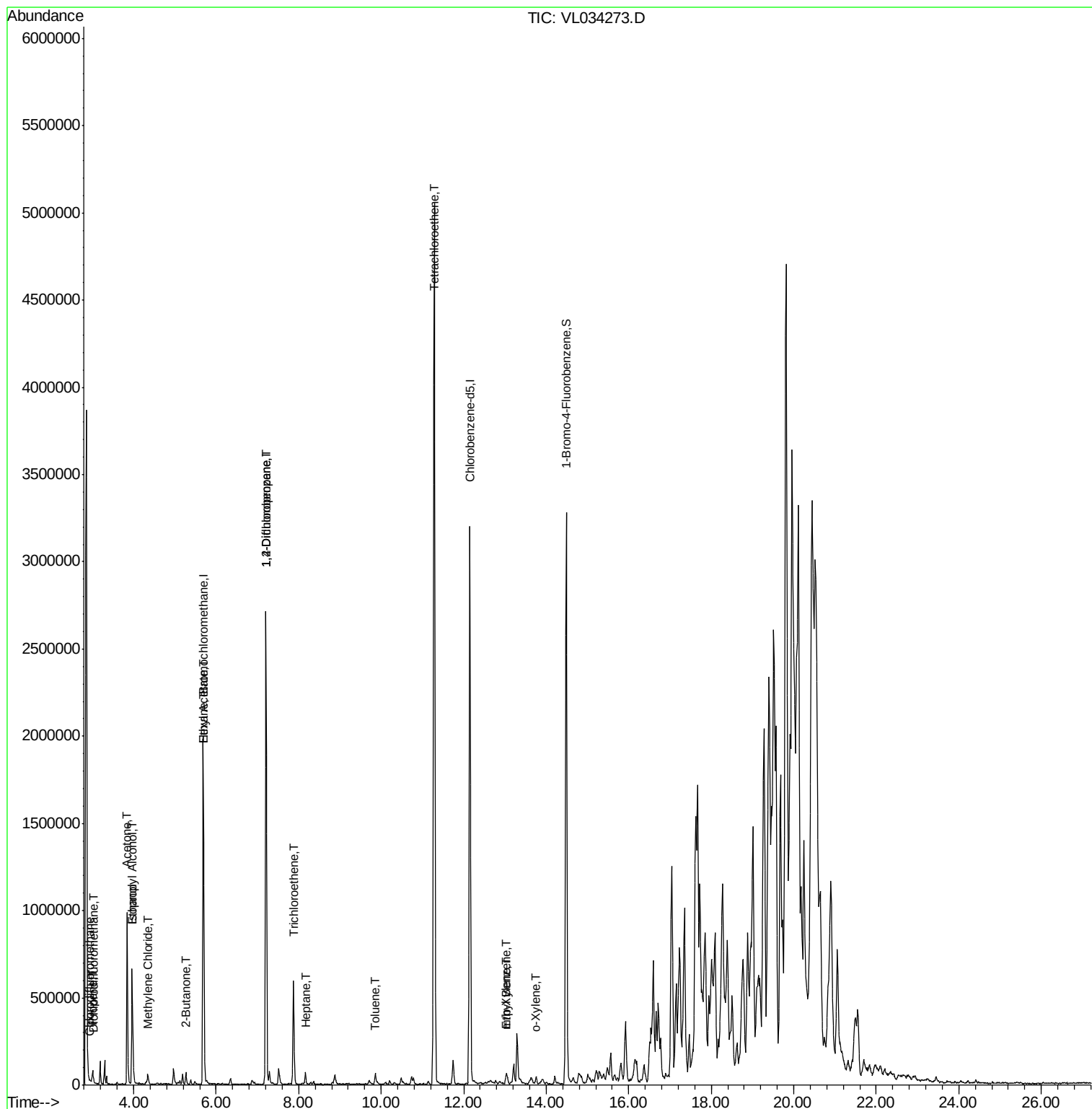
Quant Time: Oct 10 01:22:19 2019

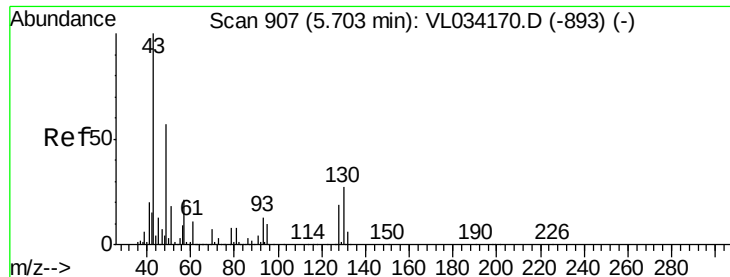
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL091719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Sep 18 12:53:31 2019

QLast Update : Wed Sep 18 12:53:31 2019

Response via : Initial Calibration

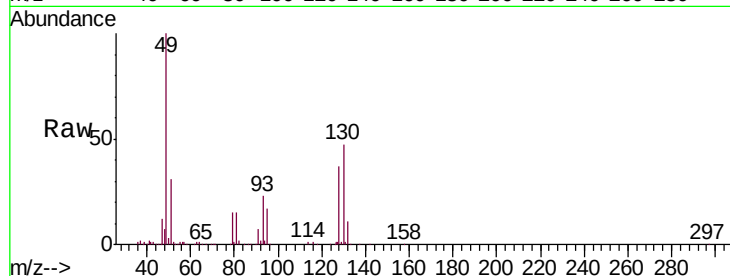




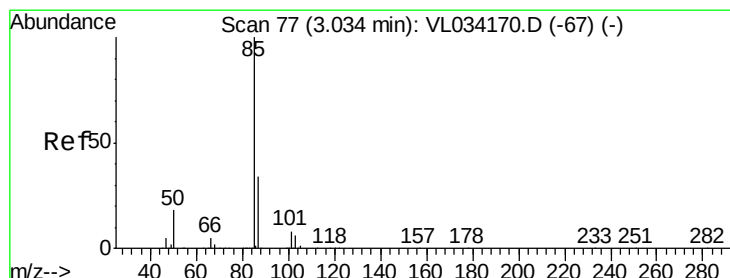
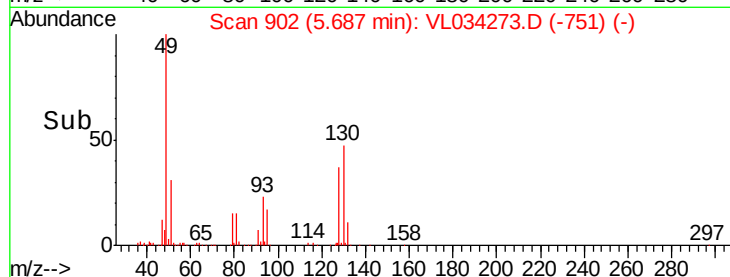
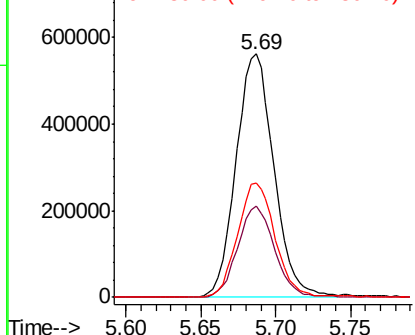
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. -0.02 min
 Lab File: VL034273.D
 Acq: 9 Oct 2019 9:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL2

Tgt Ion: 49 Resp: 991794
 Ion Ratio Lower Upper
 49 100
 128 36.8 17.6 52.9
 130 47.0 22.3 66.9

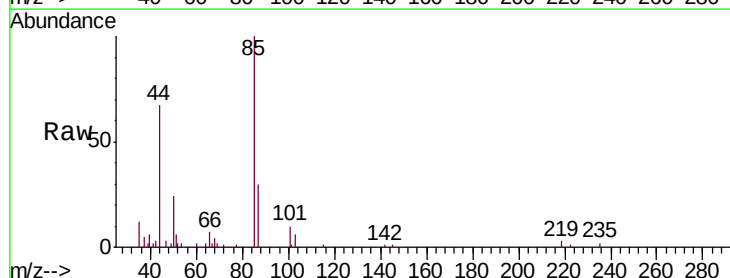


Abundance Ion 49.10 (48.80 to 49.80): VL0
 Ion 128.00 (127.70 to 128.70): V
 Ion 130.00 (129.70 to 130.70): V

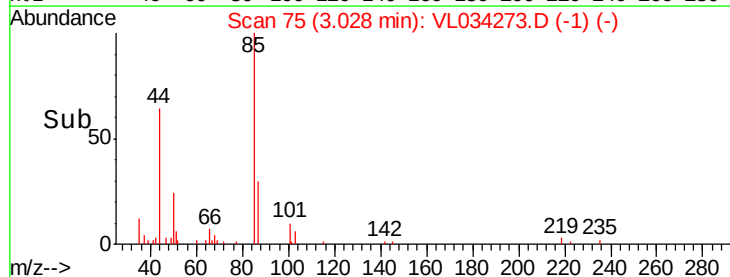
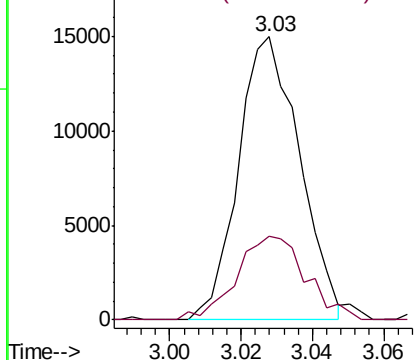


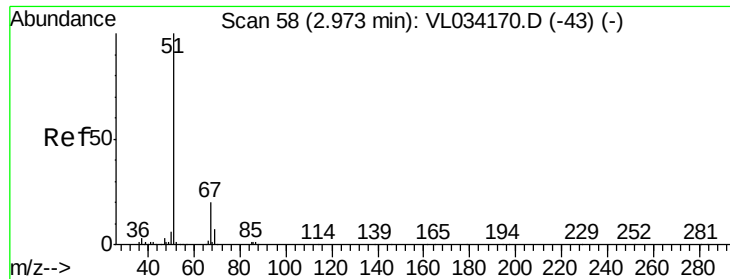
#2
 Dichlorodifluoromethane
 Concen: 0.121 ppbv
 RT: 3.03 min Scan# 75
 Delta R.T. -0.01 min
 Lab File: VL034273.D
 Acq: 9 Oct 2019 9:58

Tgt Ion: 85 Resp: 17734
 Ion Ratio Lower Upper
 85 100
 87 27.0 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: 0.035 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.03 min

Lab File: VL034273.D

Acq: 9 Oct 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

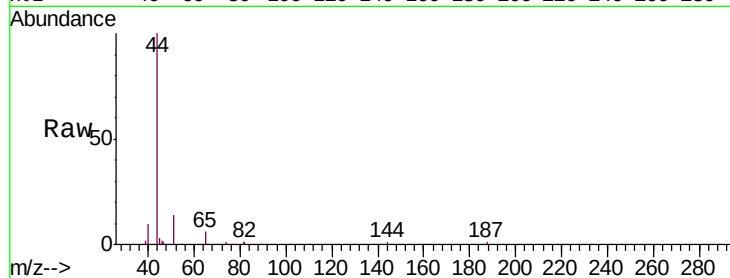
SV1DL2

Tgt Ion: 51 Resp: 4070

Ion Ratio Lower Upper

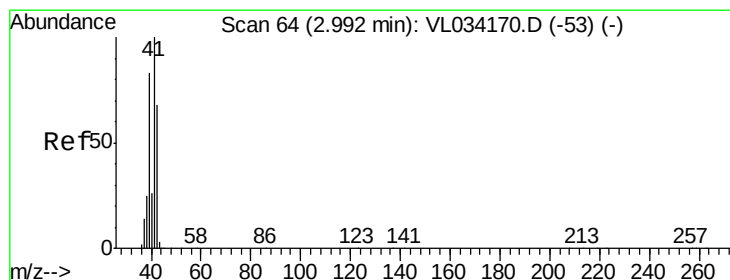
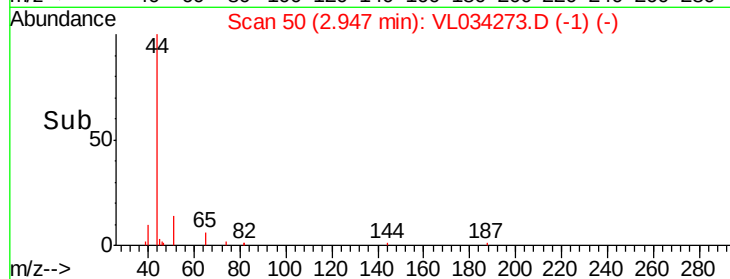
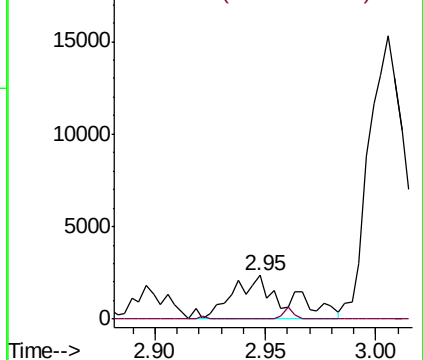
51 100

67 5.1 14.8 22.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.229 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034273.D

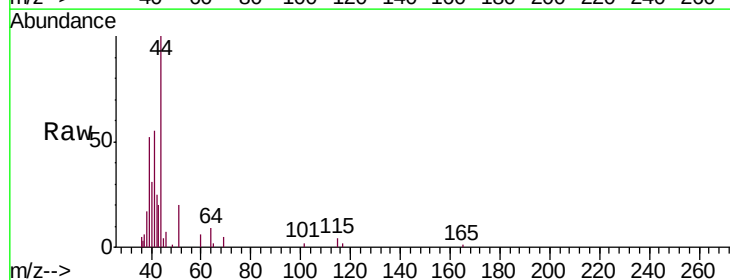
Acq: 9 Oct 2019 9:58

Tgt Ion: 41 Resp: 13145

Ion Ratio Lower Upper

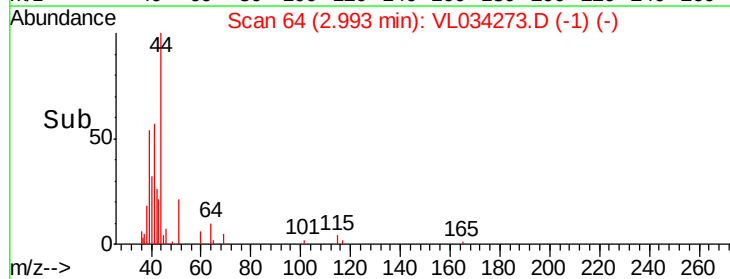
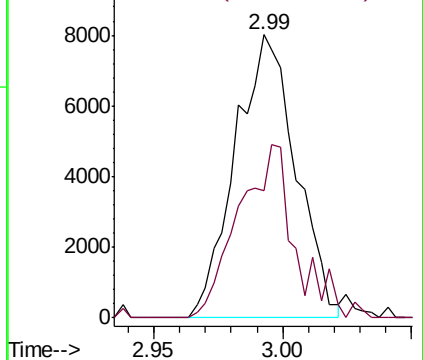
41 100

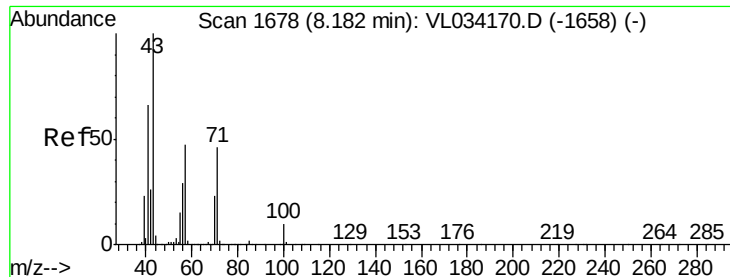
42 57.2 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

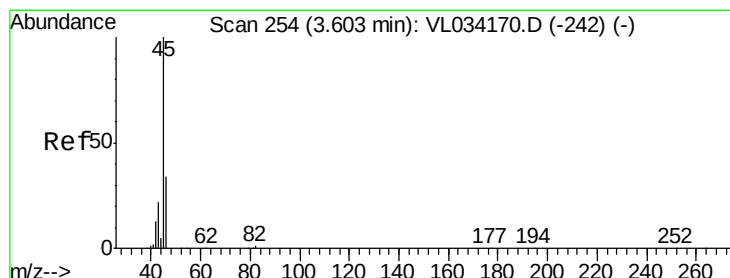
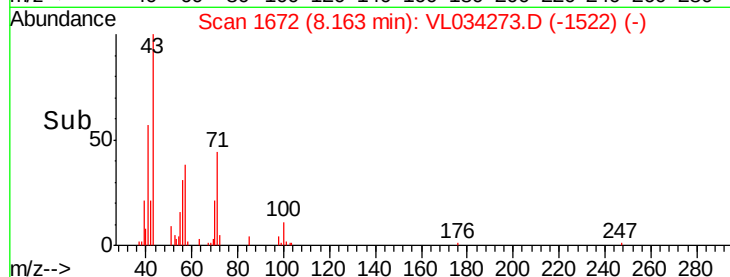
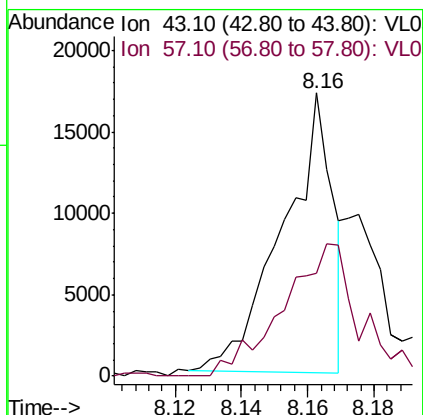
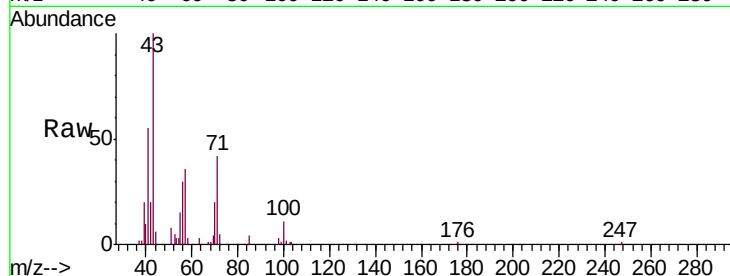




#10
Heptane
Concen: 0.120 ppbv
RT: 8.16 min Scan# 1672
Delta R.T. -0.02 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

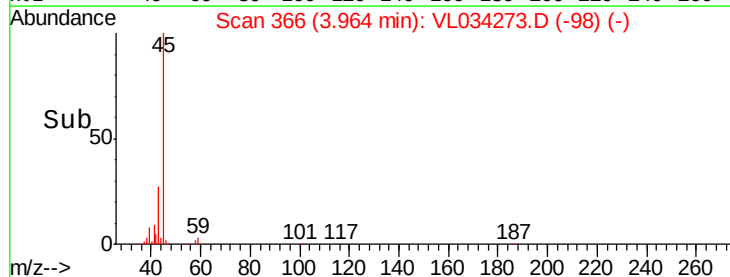
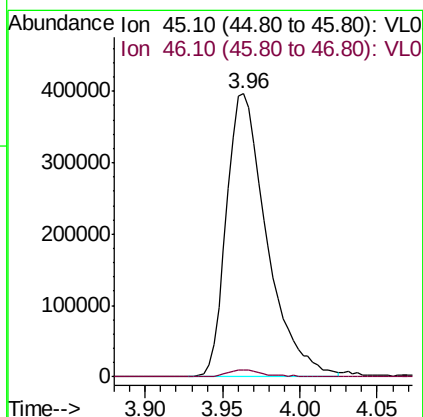
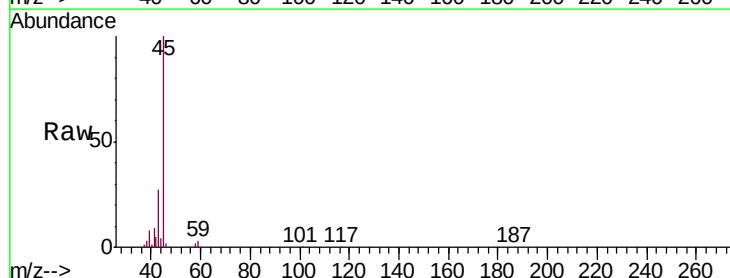
Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

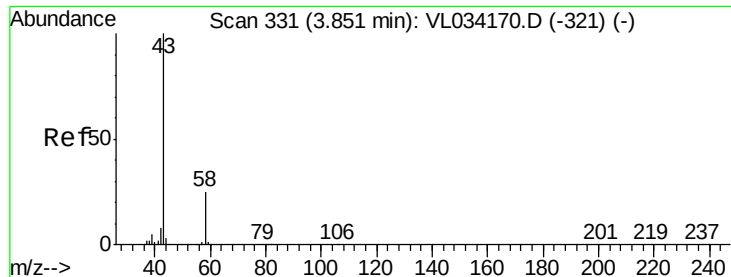
Tgt Ion: 43 Resp: 17942
Ion Ratio Lower Upper
43 100
57 72.7 37.5 56.3#



#13
Ethanol
Concen: 51.670 ppbv
RT: 3.96 min Scan# 366
Delta R.T. 0.36 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

Tgt Ion: 45 Resp: 717847
Ion Ratio Lower Upper
45 100
46 2.3 15.5 61.9#





#15

Acetone

Concen: 7.176 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL034273.D

Acq: 9 Oct 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

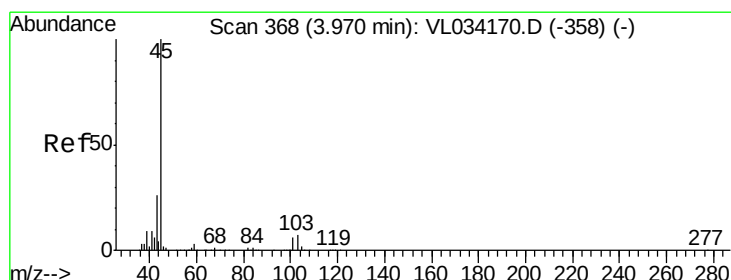
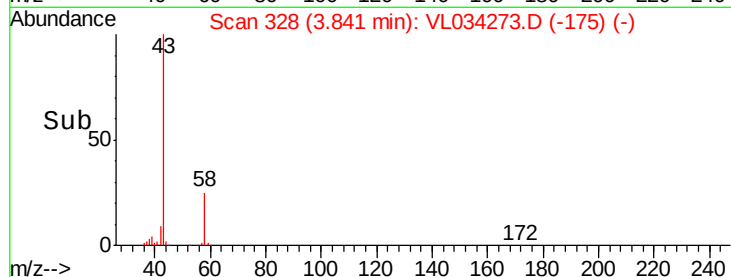
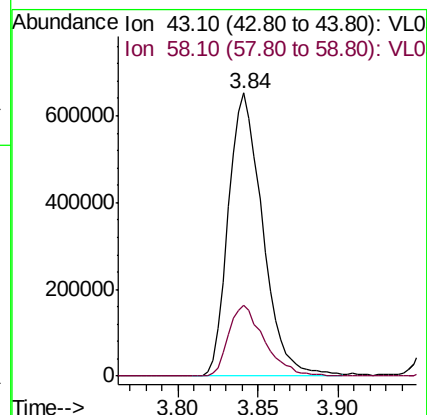
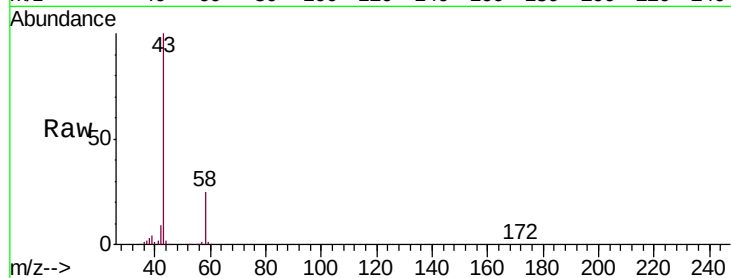
SV1DL2

Tgt Ion: 43 Resp: 953839

Ion Ratio Lower Upper

43 100

58 26.5 20.5 30.7



#19

Isopropyl Alcohol

Concen: 8.782 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.01 min

Lab File: VL034273.D

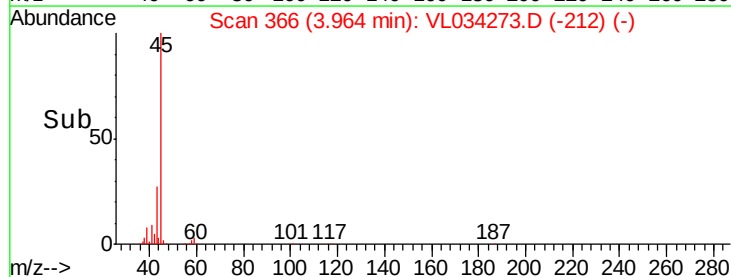
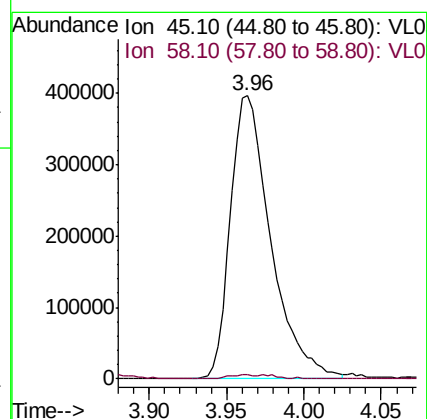
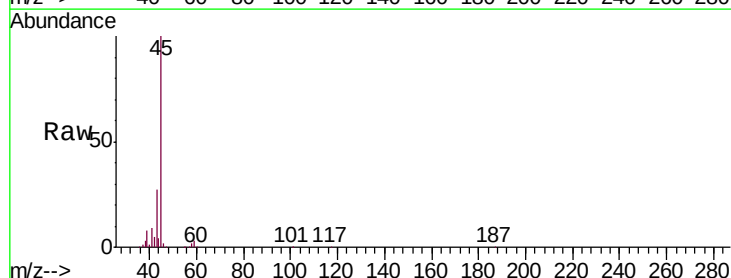
Acq: 9 Oct 2019 9:58

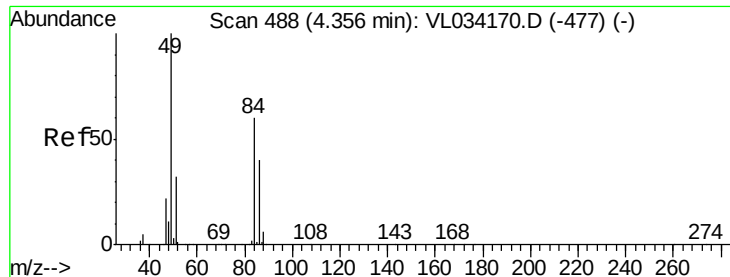
Tgt Ion: 45 Resp: 717847

Ion Ratio Lower Upper

45 100

58 2.1 1.4 2.0#

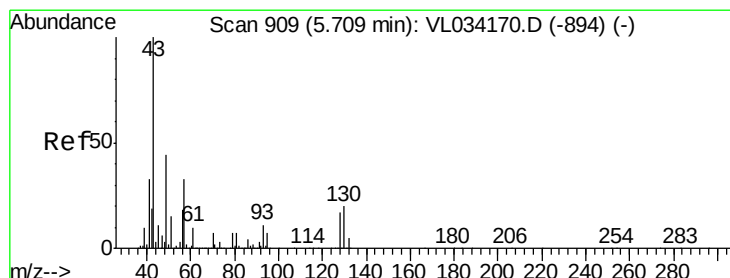
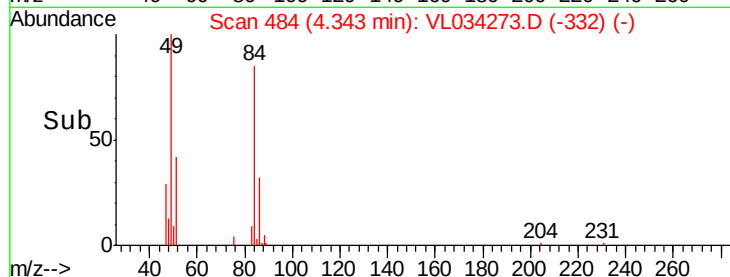
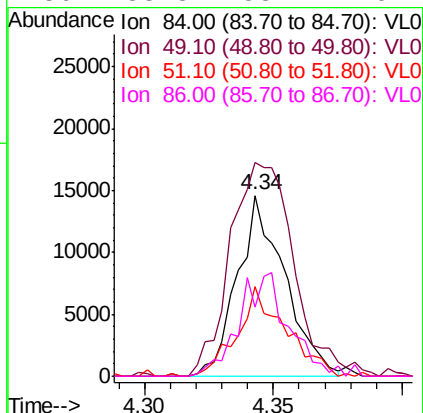
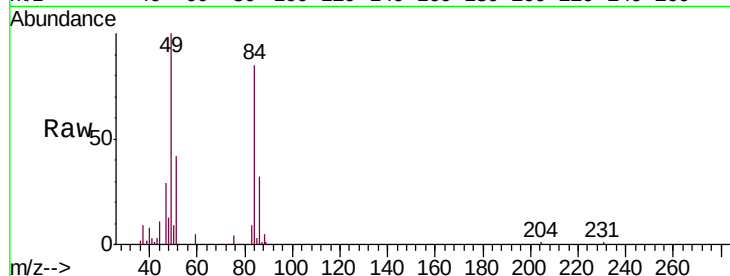




#20
Methylene Chloride
Concen: 0.488 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

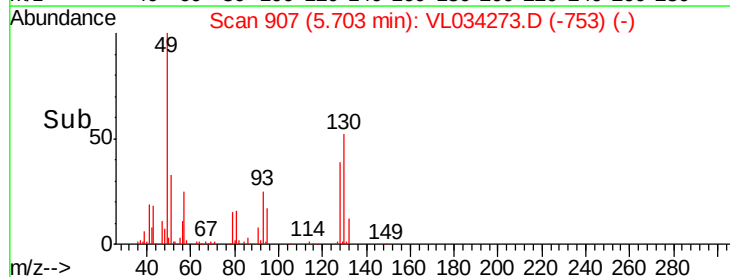
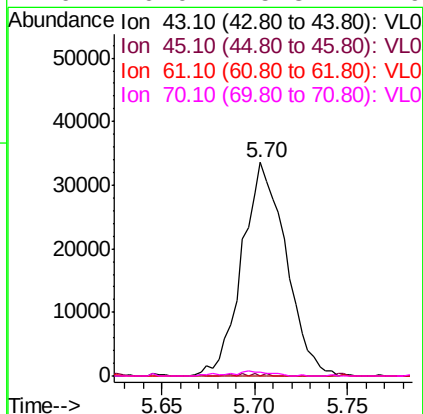
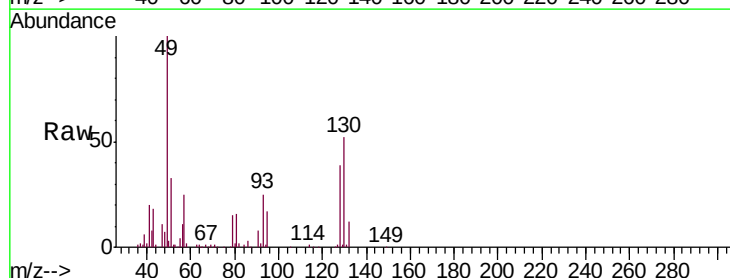
Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

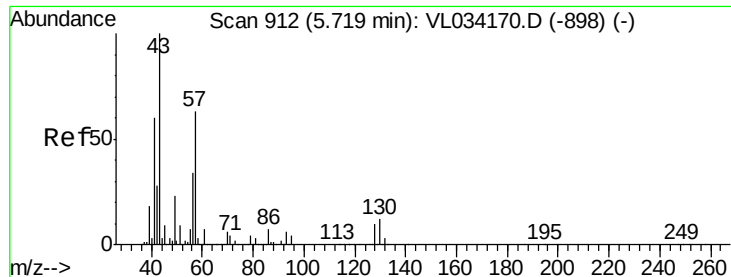
Tgt Ion:	84	Resp:	18715
Ion	Ratio	Lower	Upper
84	100		
49	118.0	133.8	200.8#
51	49.7	43.6	65.4
86	38.3	53.1	79.7#



#25
Ethyl Acetate
Concen: 0.222 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

Tgt Ion:	43	Resp:	55736
Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.4	12.6#
61	0.0	7.2	10.8#
70	0.0	5.3	7.9#

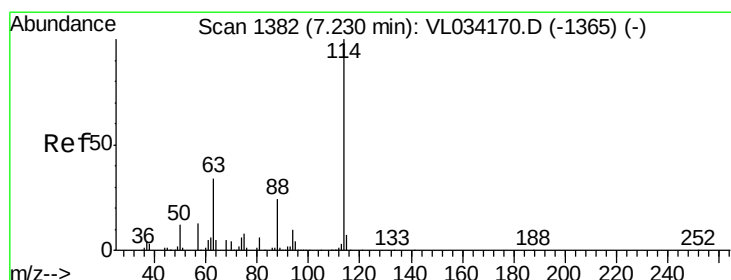
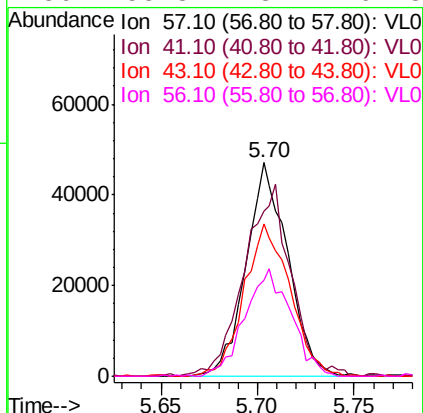
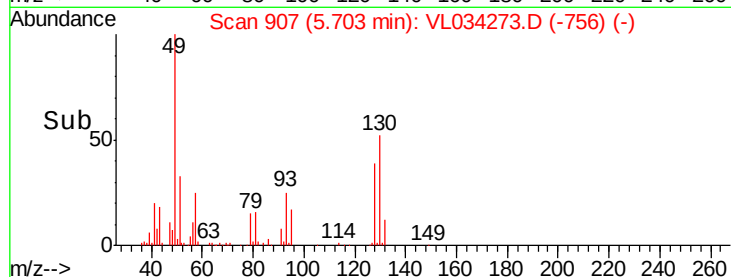
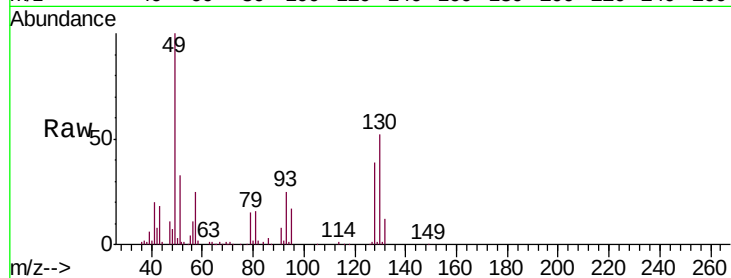




#26
Hexane
Concen: 0.676 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.02 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

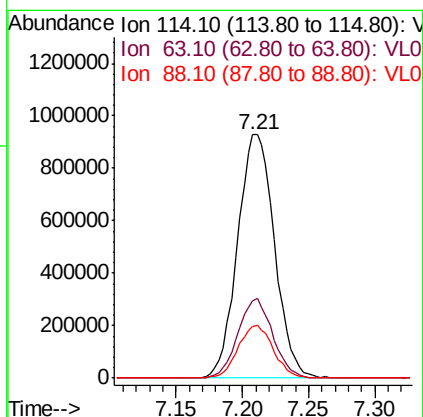
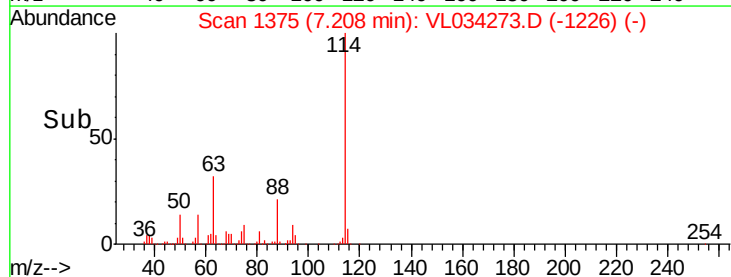
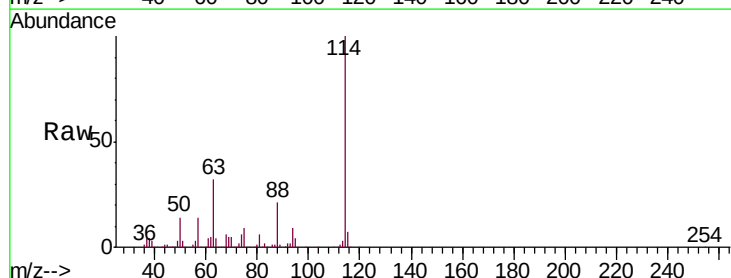
Instrument :
MSVOA_L
ClientSampleID :
SV1DL2

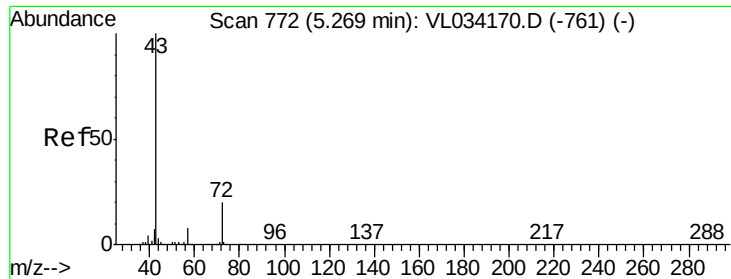
Tgt Ion: 57 Resp: 70688
Ion Ratio Lower Upper
57 100
41 100.5 78.5 117.7
43 79.2 189.5 284.3#
56 55.8 43.2 64.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1375
Delta R.T. -0.02 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

Tgt Ion: 114 Resp: 1791020
Ion Ratio Lower Upper
114 100
63 30.9 27.8 41.6
88 20.7 17.1 25.7

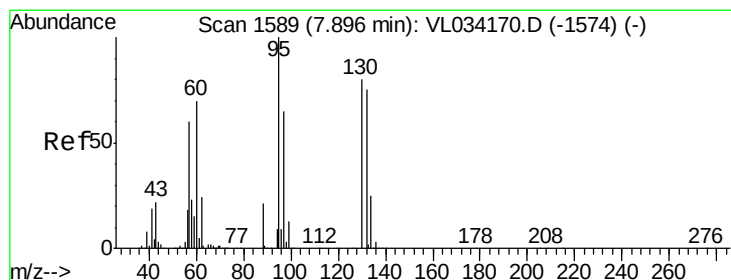
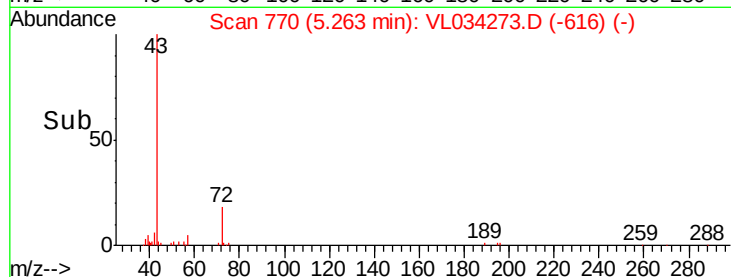
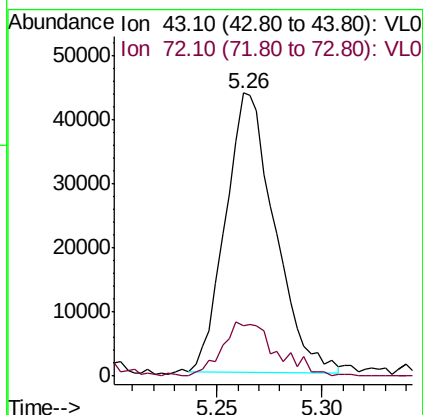
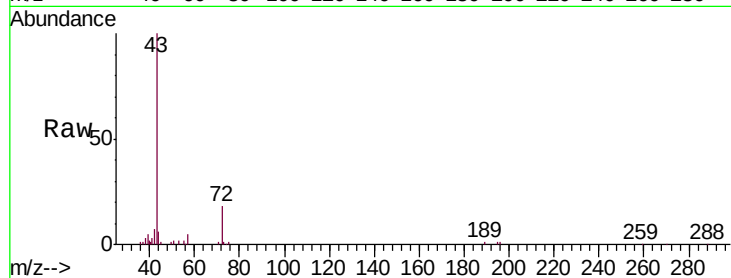




#34
2-Butanone
Concen: 0.386 ppbv
RT: 5.26 min Scan# 770
Delta R.T. -0.01 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

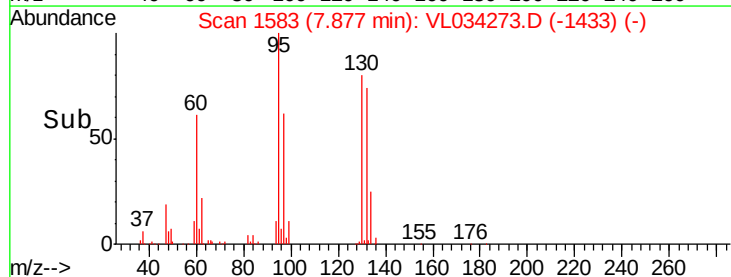
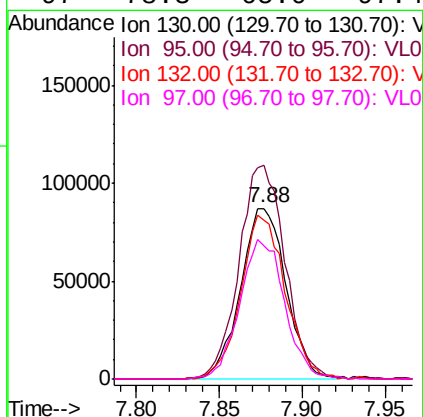
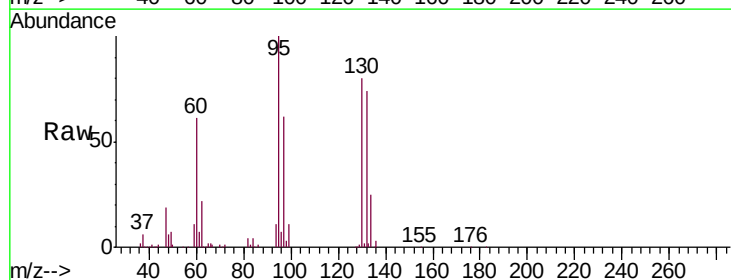
Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

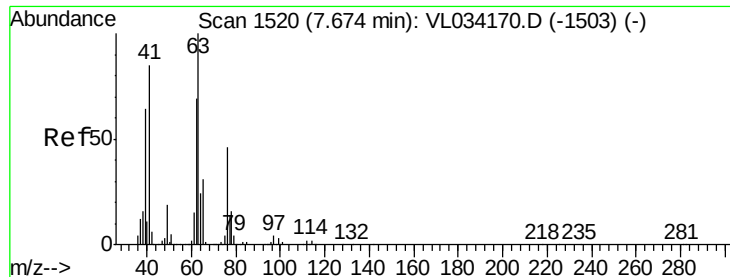
Tgt Ion: 43 Resp: 70631
Ion Ratio Lower Upper
43 100
72 21.2 15.0 22.6



#38
Trichloroethene
Concen: 2.360 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.02 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

Tgt Ion: 130 Resp: 166816
Ion Ratio Lower Upper
130 100
95 125.0 99.8 149.6
132 93.1 75.2 112.8
97 78.3 65.0 97.4





#39

1,2-Dichloropropane

Concen: 6.200 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. -0.46 min

Lab File: VL034273.D

Acq: 9 Oct 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

SV1DL2

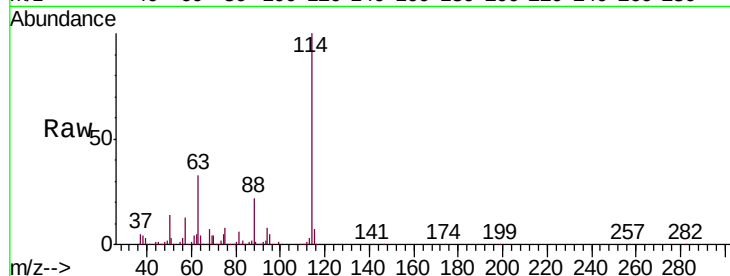
Tgt Ion: 63 Resp: 551048

Ion Ratio Lower Upper

63 100

41 0.0 68.4 102.6#

62 16.5 55.4 83.2#

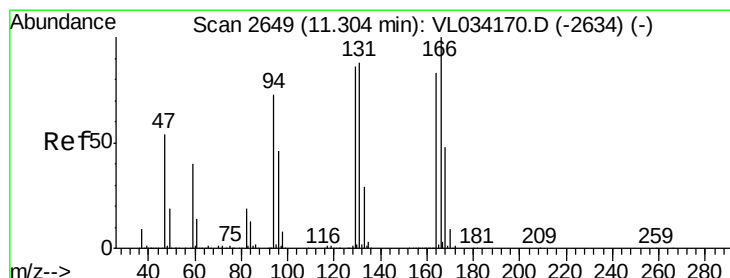
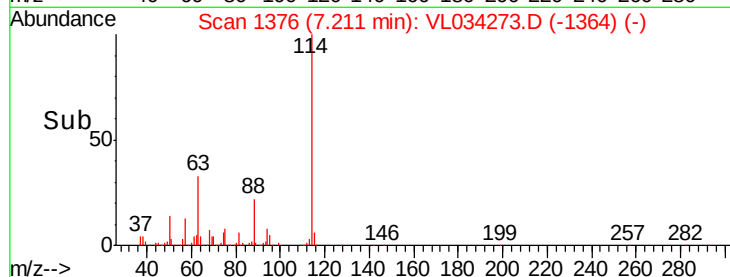
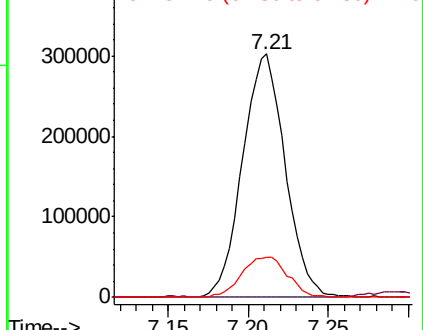


Abundance

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



#52

Tetrachloroethene

Concen: 18.550 ppbv

RT: 11.28 min Scan# 2643

Delta R.T. -0.02 min

Lab File: VL034273.D

Acq: 9 Oct 2019 9:58

Tgt Ion: 164 Resp: 1212294

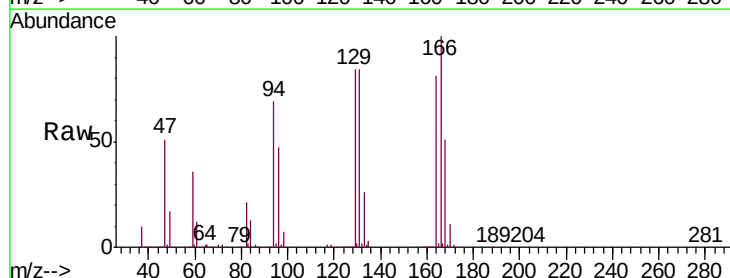
Ion Ratio Lower Upper

164 100

166 123.9 96.7 145.1

129 104.1 82.8 124.2

131 103.8 85.0 127.6



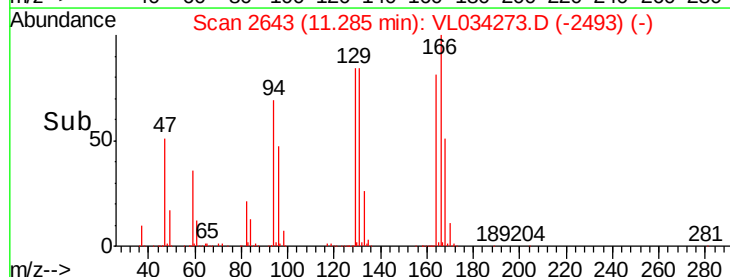
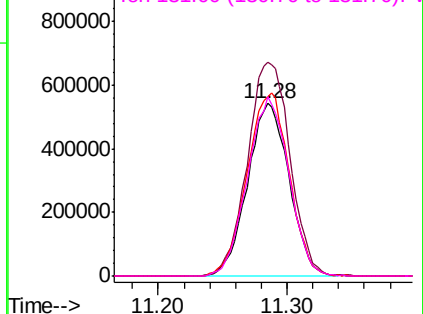
Abundance

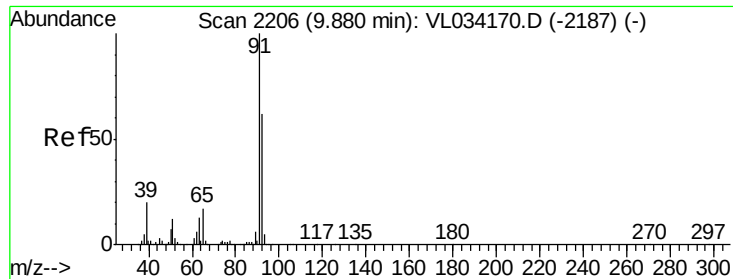
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.034 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. -0.04 min

Lab File: VL034273.D

Acq: 9 Oct 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

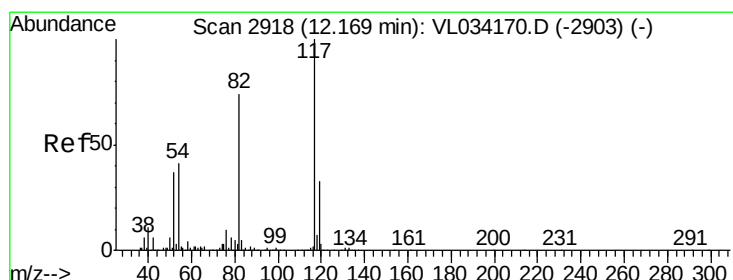
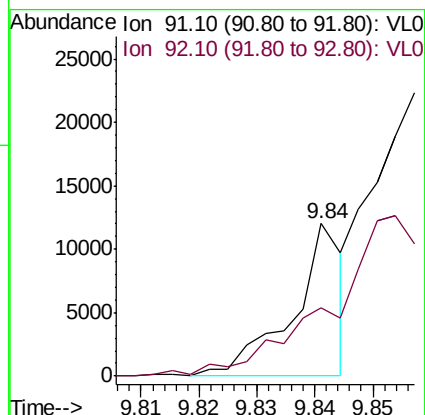
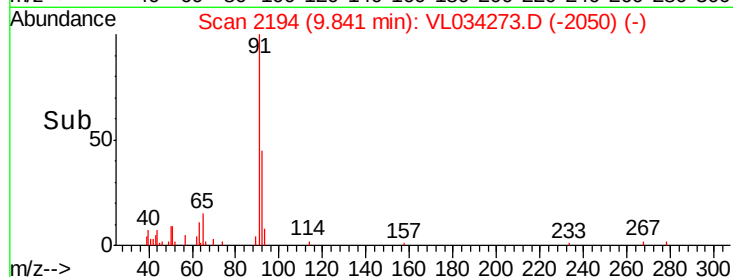
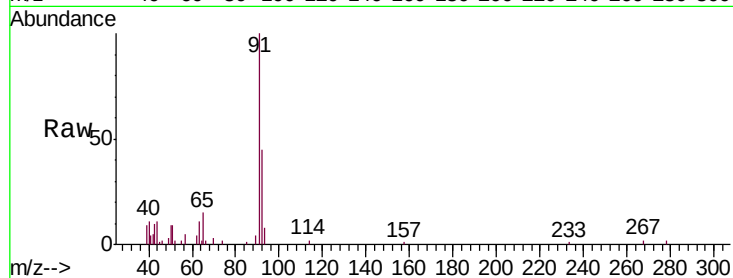
SV1DL2

Tgt Ion: 91 Resp: 7250

Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2911

Delta R.T. -0.02 min

Lab File: VL034273.D

Acq: 9 Oct 2019 9:58

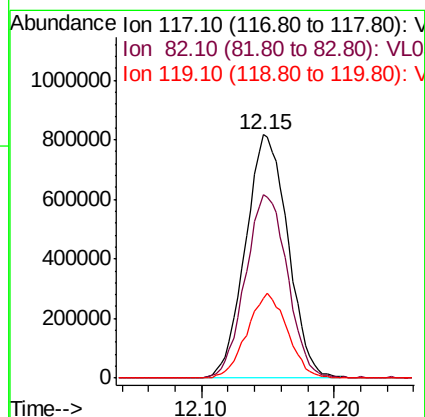
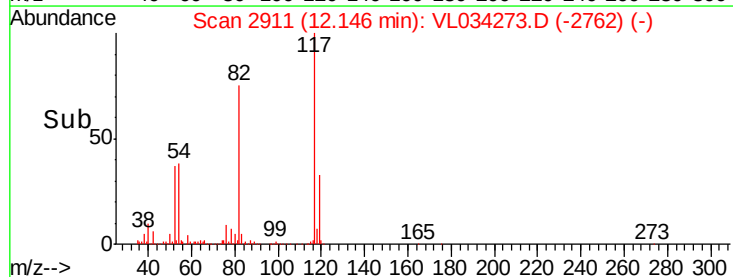
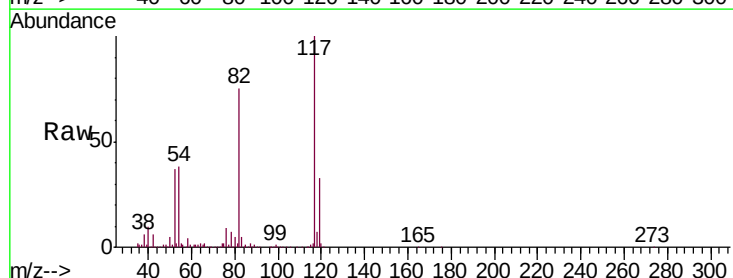
Tgt Ion: 117 Resp: 1817416

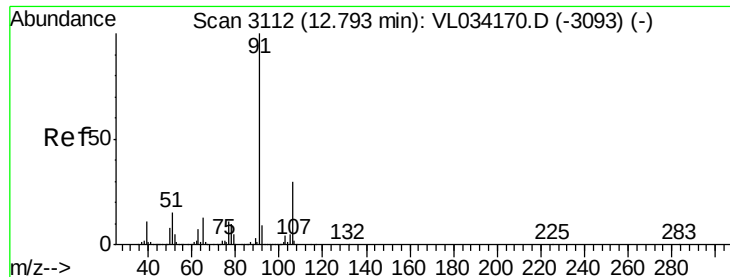
Ion Ratio Lower Upper

117 100

82 74.8 58.2 87.4

119 33.3 23.7 35.5





#58

Ethyl Benzene

Concen: 0.085 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. 0.23 min

Lab File: VL034273.D

Acq: 9 Oct 2019 9:58

Instrument :

MSVOA_L

ClientSampleId :

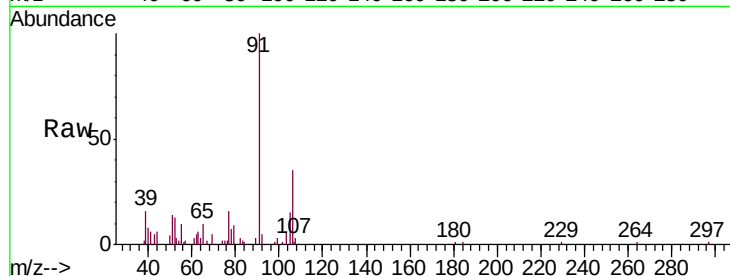
SV1DL2

Tgt Ion: 91 Resp: 24789

Ion Ratio Lower Upper

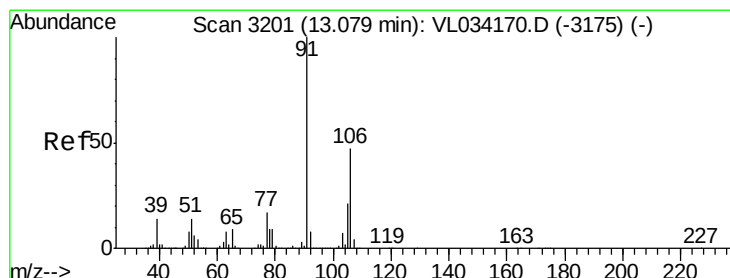
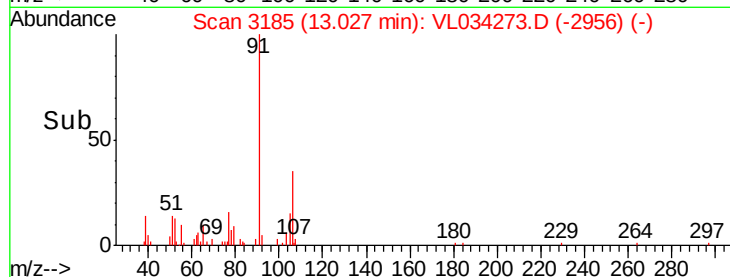
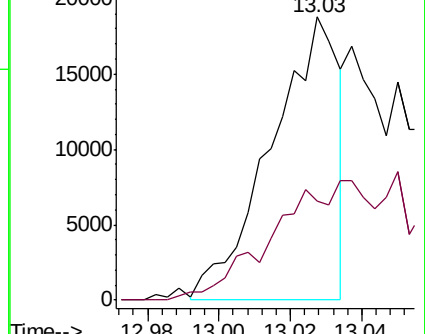
91 100

106 34.1 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.038 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. -0.03 min

Lab File: VL034273.D

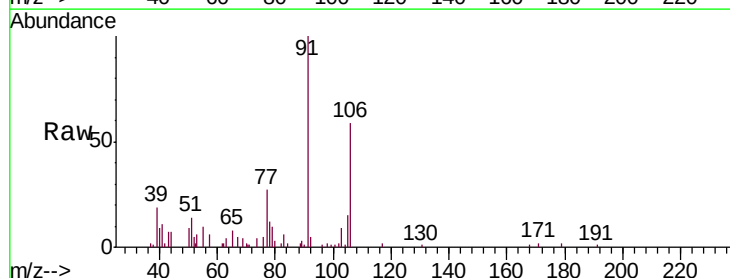
Acq: 9 Oct 2019 9:58

Tgt Ion: 91 Resp: 9243

Ion Ratio Lower Upper

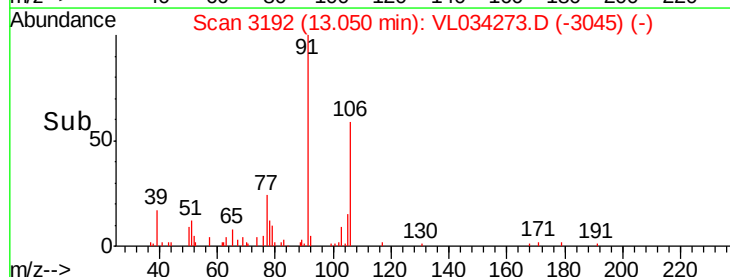
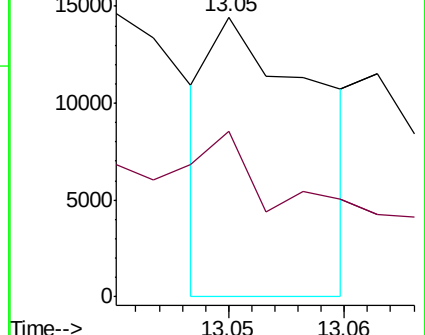
91 100

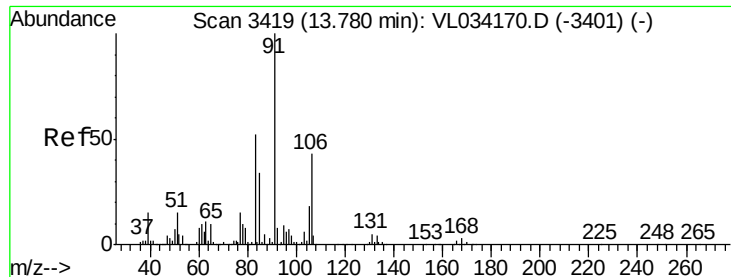
106 276.3 35.5 53.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

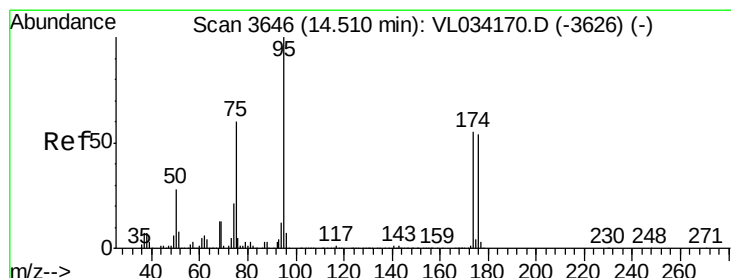
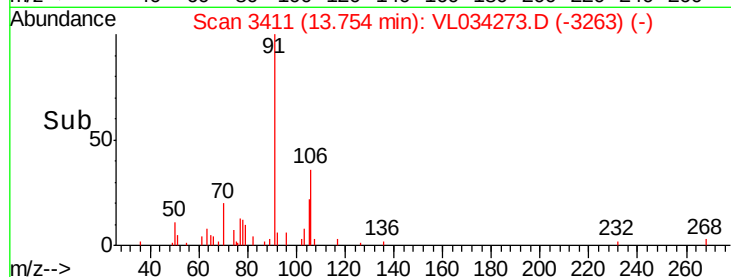
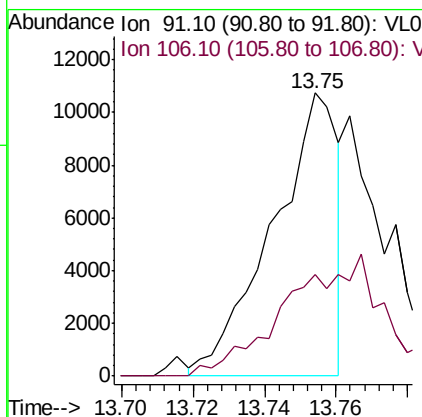
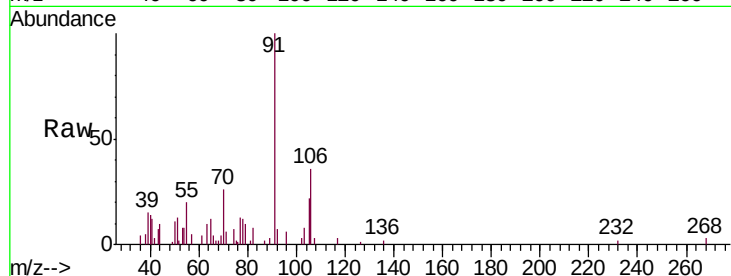




#60
o-Xylene
Concen: 0.056 ppbv
RT: 13.75 min Scan# 3411
Delta R.T. -0.03 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

Instrument :
MSVOA_L
ClientSampleId :
SV1DL2

Tgt Ion: 91 Resp: 13558
Ion Ratio Lower Upper
91 100
106 0.0 21.2 63.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.919 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034273.D
Acq: 9 Oct 2019 9:58

Tgt Ion: 95 Resp: 1566479
Ion Ratio Lower Upper
95 100
174 58.8 45.1 67.7
175 4.4 3.3 4.9

