

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034536.D
 Acq On : 31 Dec 2019 7:03
 Operator : SY/AP
 Sample : K6470-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 31 08:23:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1031458	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2109702	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2027949	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1683891	9.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

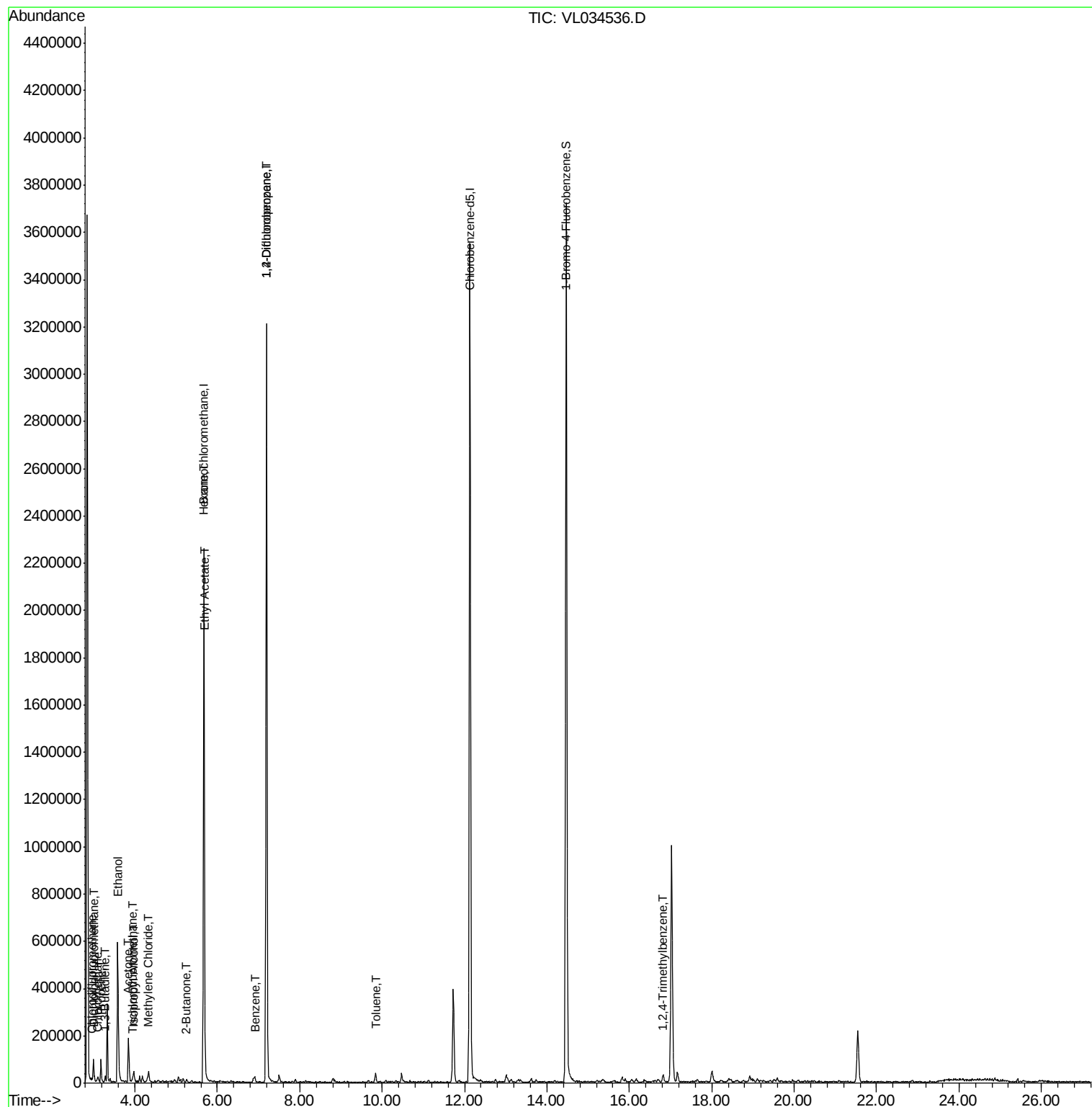
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	4265	0.026	ppbv #	72
3) Chlorodifluoromethane	2.96	51	13098	0.107	ppbv #	76
4) Chloromethane	3.11	50	4446	0.061	ppbv #	40
9) Propene	3.18	41	21408	0.452	ppbv	96
11) Trichlorofluoromethane	3.93	101	4809	0.026	ppbv #	73
13) Ethanol	3.58	45	580610	44.165	ppbv	99
15) Acetone	3.84	43	181834	1.208	ppbv	98
16) 1,3-Butadiene	3.28	39	6782	0.117	ppbv #	26
19) Isopropyl Alcohol	3.97	45	41930	0.430	ppbv #	92
20) Methylene Chloride	4.33	84	7167	0.121	ppbv #	79
25) Ethyl Acetate	5.69	43	8273	0.035	ppbv #	76
26) Hexane	5.68	57	2018	0.020	ppbv #	1
34) 2-Butanone	5.25	43	10307	0.068	ppbv #	81
36) Benzene	6.91	78	3734	0.020	ppbv #	84
39) 1,2-Dichloropropane	7.20	63	603431	7.980	ppbv #	22
53) Toluene	9.84	91	22771	0.113	ppbv	97
74) 1,2,4-Trimethylbenzene	16.82	105	10554	0.037	ppbv #	60

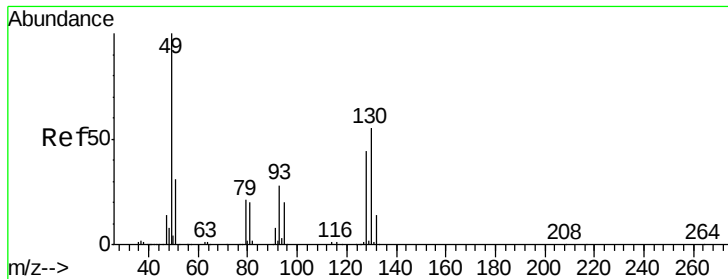
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034536.D

Acq: 31 Dec 2019 7:03

Instrument :
MSVOA_L
ClientSampleId :

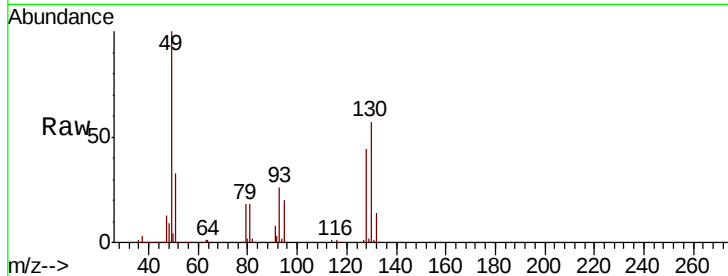
Tot Ion: 49 Resp: 1031458

Ion Ratio Lower Upper

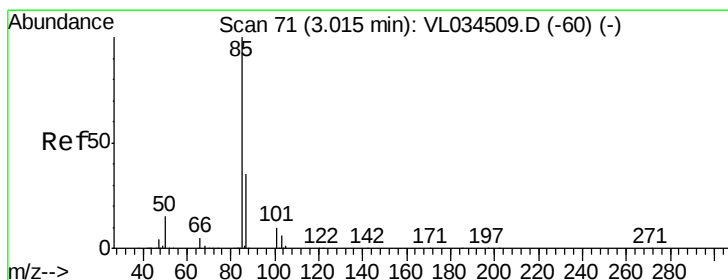
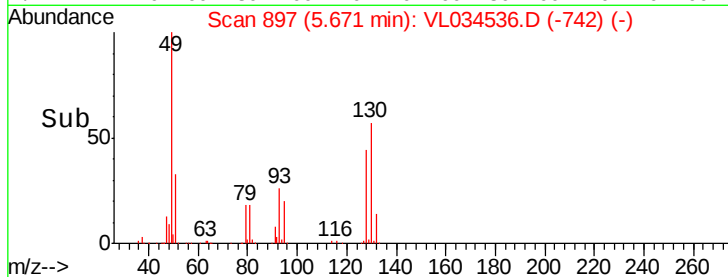
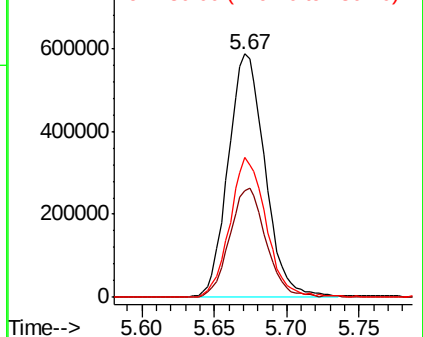
49 100

128 45.0 22.4 67.2

130 57.0 28.3 85.0



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: 0.026 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL034536.D

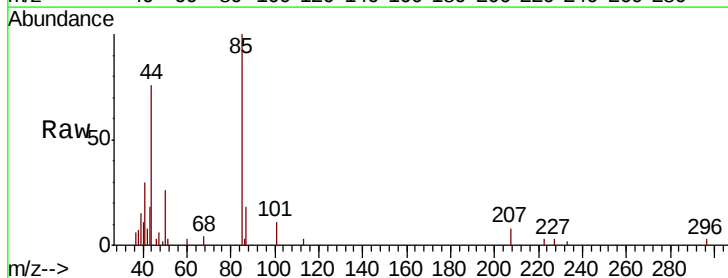
Acq: 31 Dec 2019 7:03

Tgt Ion: 85 Resp: 4265

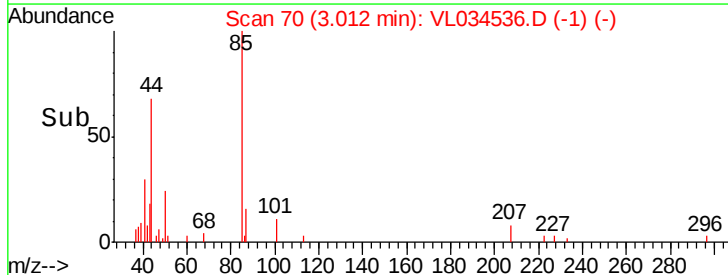
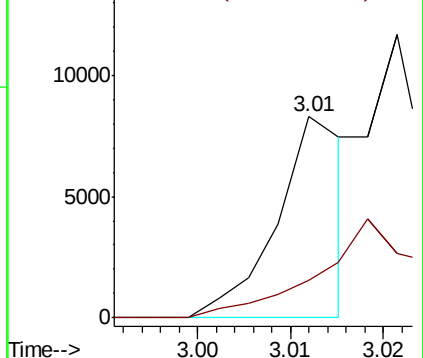
Ion Ratio Lower Upper

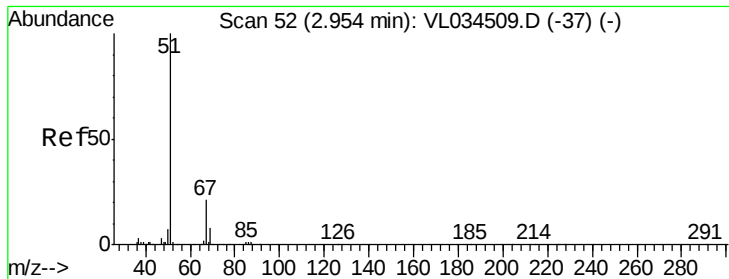
85 100

87 18.5 27.9 41.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.107 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.01 min

Lab File: VL034536.D

Acq: 31 Dec 2019 7:03

Instrument :

MSVOA_L

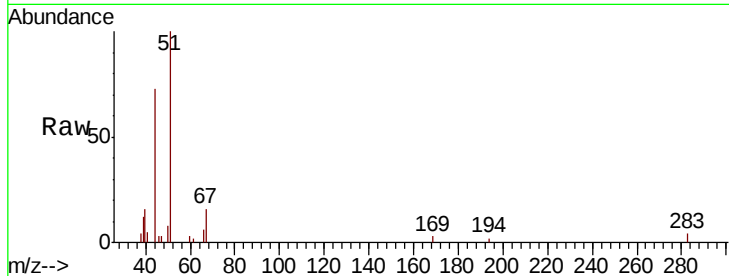
ClientSampleId :

Tot Ion: 51 Resp: 13098

Ion Ratio Lower Upper

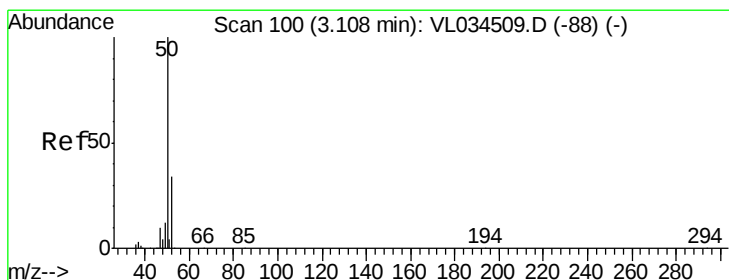
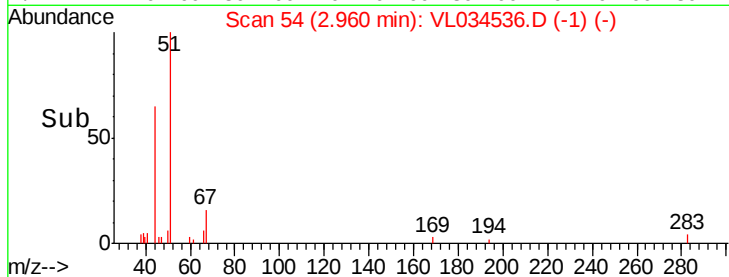
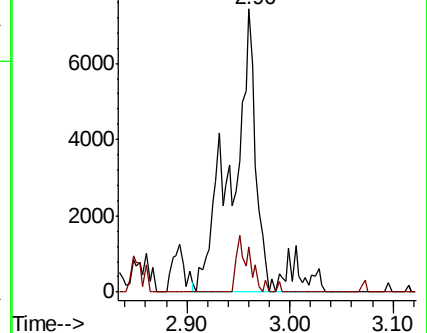
51 100

67 9.9 16.8 25.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.061 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034536.D

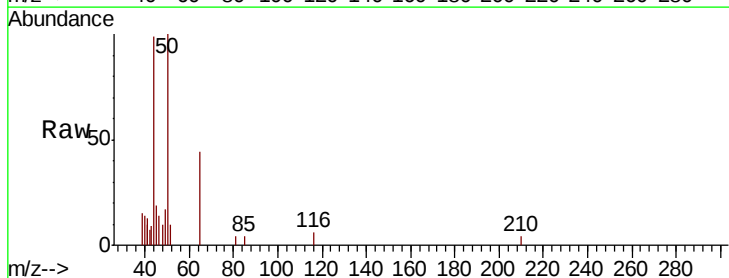
Acq: 31 Dec 2019 7:03

Tgt Ion: 50 Resp: 4446

Ion Ratio Lower Upper

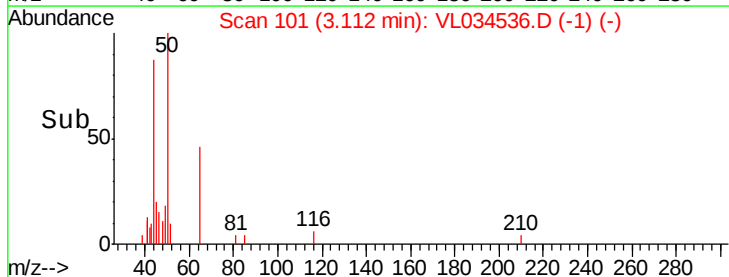
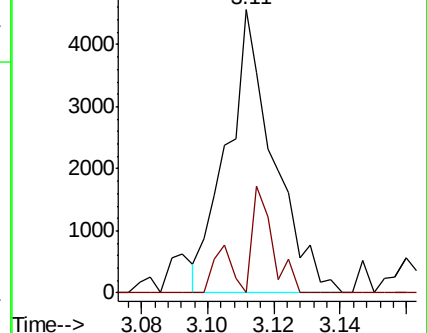
50 100

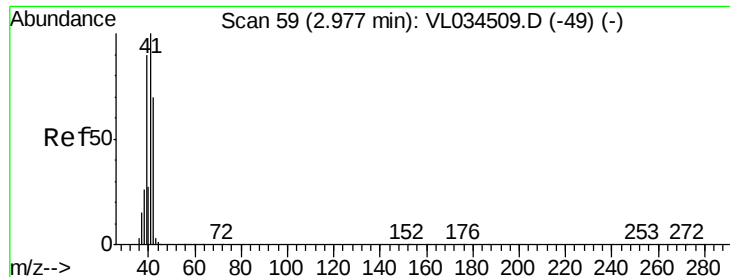
52 0.0 27.6 41.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.452 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.20 min

Lab File: VL034536.D

Acq: 31 Dec 2019 7:03

Instrument :

MSVOA_L

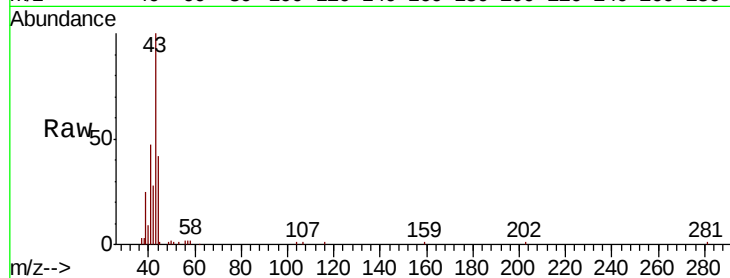
ClientSampleId :

Tot Ion: 41 Resp: 21408

Ion Ratio Lower Upper

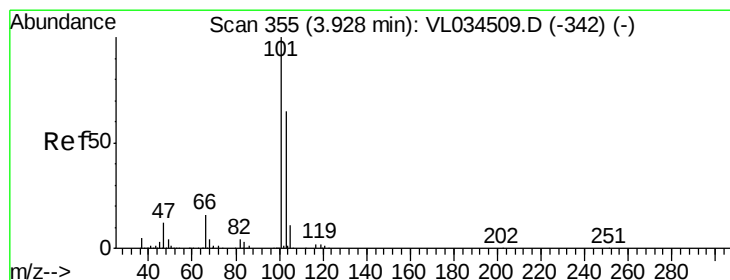
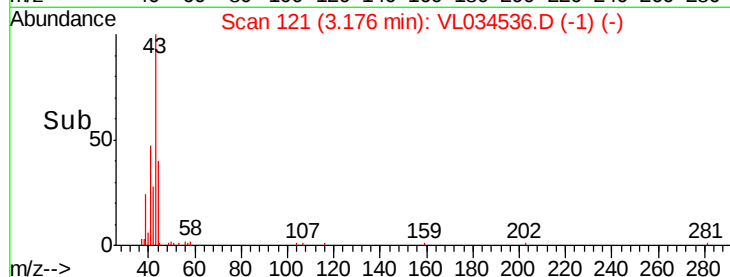
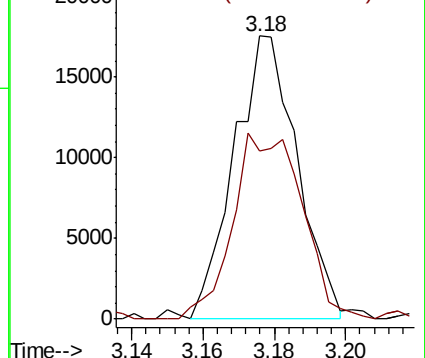
41 100

42 72.9 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.026 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.00 min

Lab File: VL034536.D

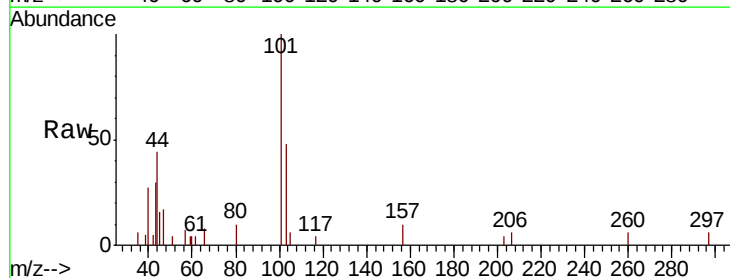
Acq: 31 Dec 2019 7:03

Tgt Ion: 101 Resp: 4809

Ion Ratio Lower Upper

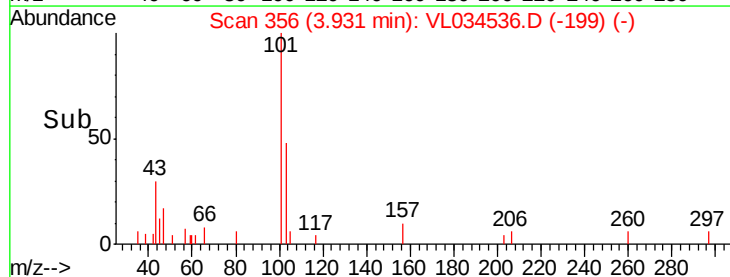
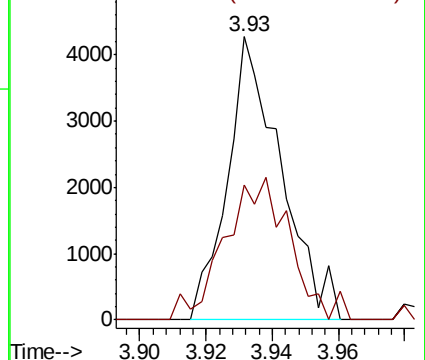
101 100

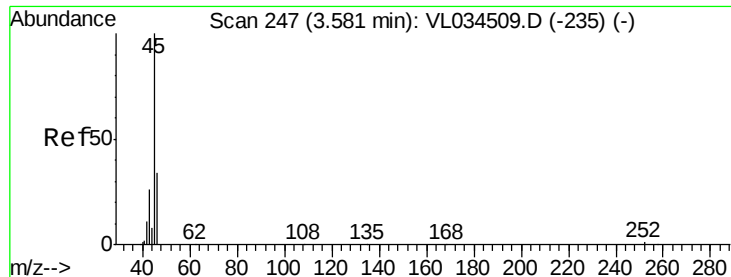
103 43.9 52.1 78.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

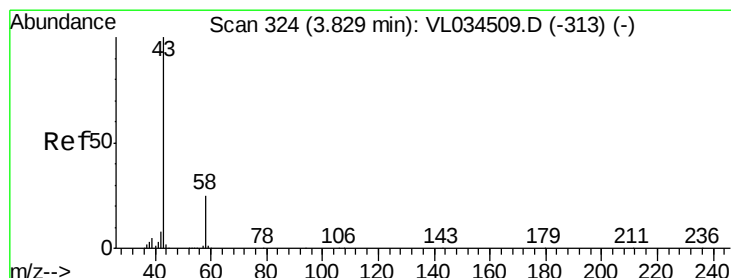
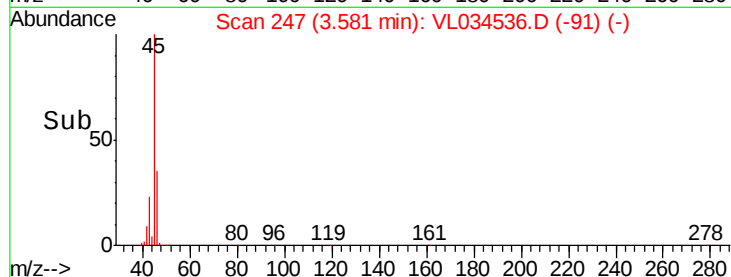
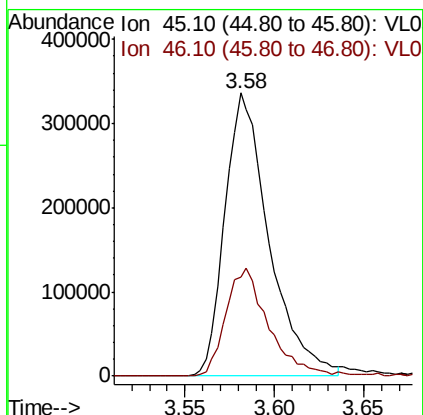
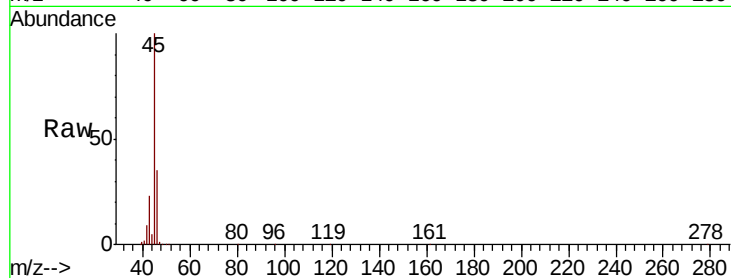




#13
Ethanol
Concen: 44.165 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.00 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

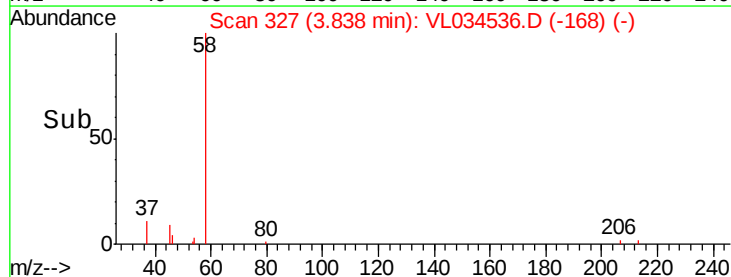
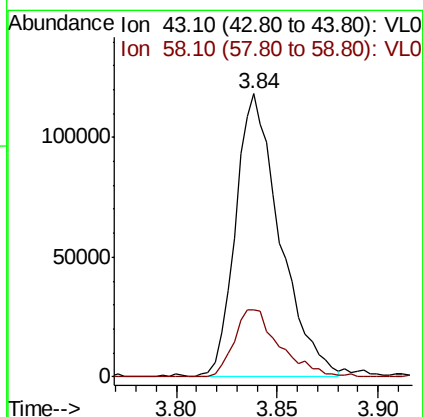
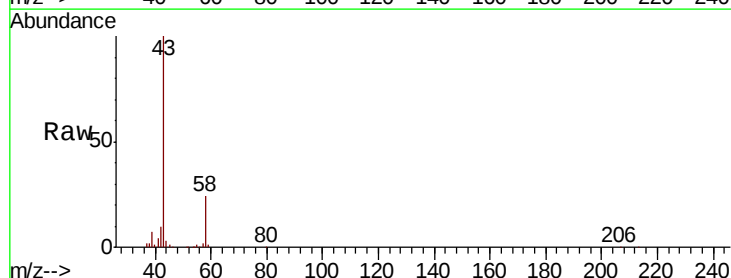
Instrument :
MSVOA_L
ClientSampleId :

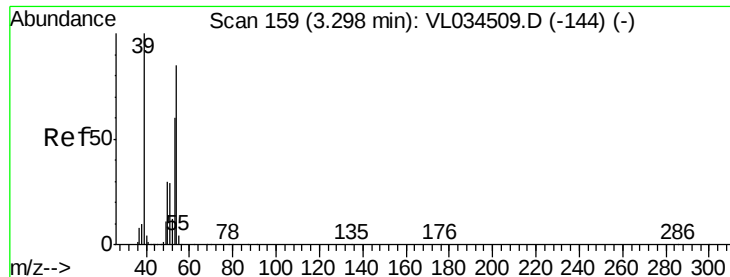
Tot Ion: 45 Resp: 580610
Ion Ratio Lower Upper
45 100
46 37.7 14.9 59.7



#15
Acetone
Concen: 1.208 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

Tgt Ion: 43 Resp: 181834
Ion Ratio Lower Upper
43 100
58 24.6 20.4 30.6





#16

1,3-Butadiene

Concen: 0.117 ppbv

RT: 3.28 min Scan# 152

Delta R.T. -0.02 min

Lab File: VL034536.D

Acq: 31 Dec 2019 7:03

Instrument :

MSVOA_L

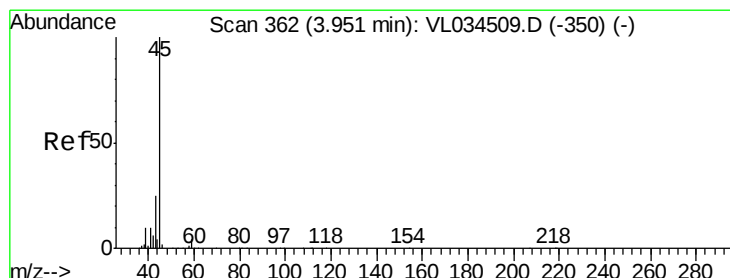
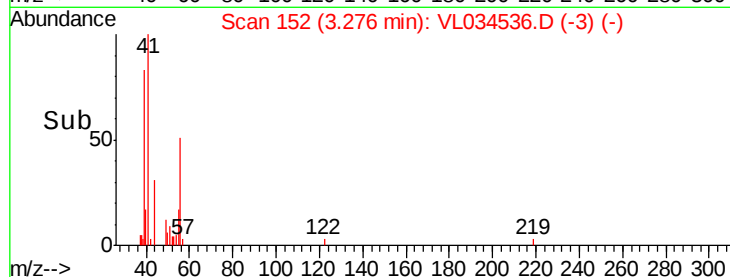
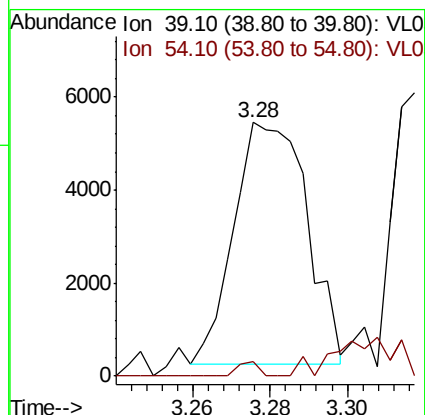
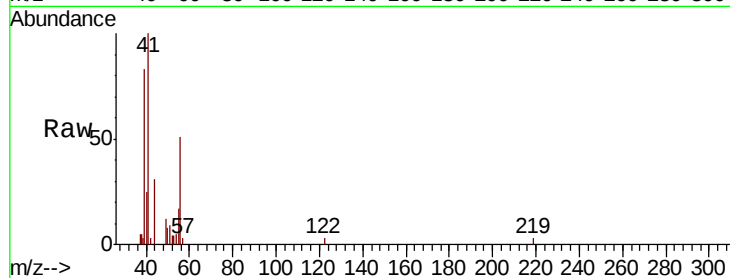
ClientSampleId :

Tot Ion: 39 Resp: 6782

Ion Ratio Lower Upper

39 100

54 16.5 66.2 99.2#



#19

Isopropyl Alcohol

Concen: 0.430 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL034536.D

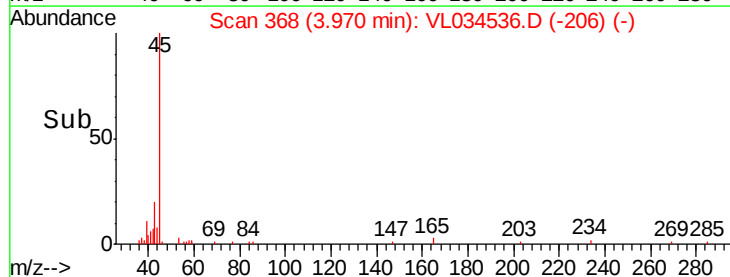
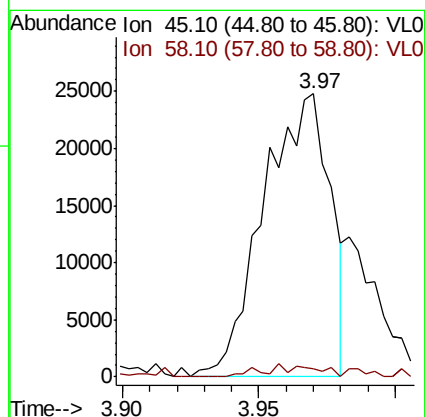
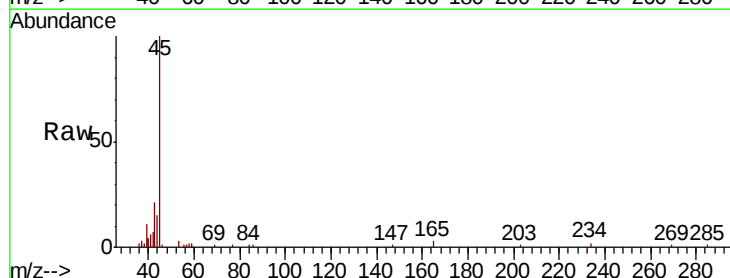
Acq: 31 Dec 2019 7:03

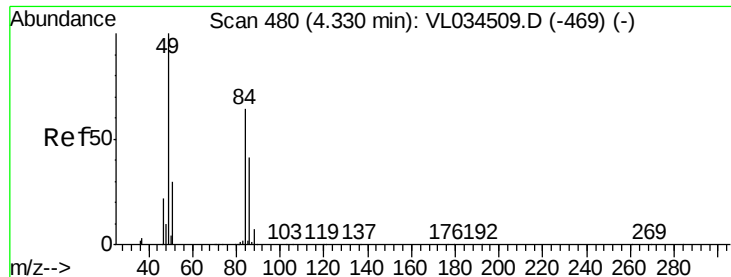
Tgt Ion: 45 Resp: 41930

Ion Ratio Lower Upper

45 100

58 4.8 1.4 2.0#

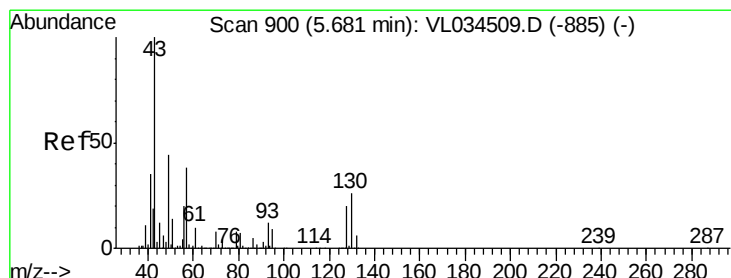
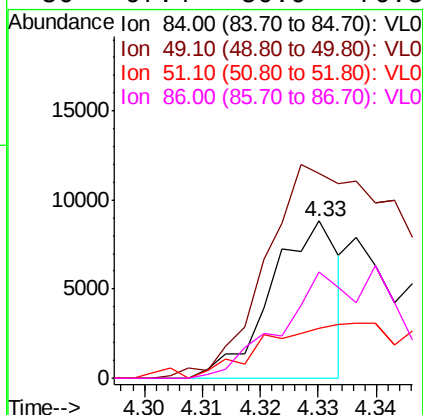
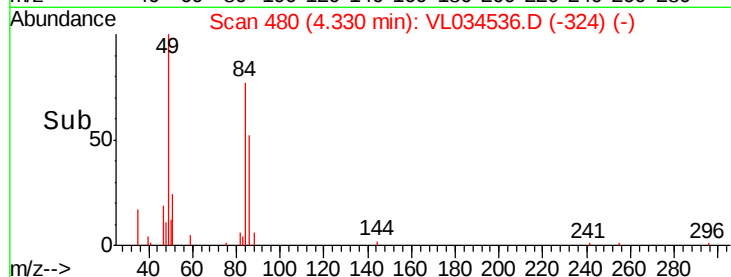
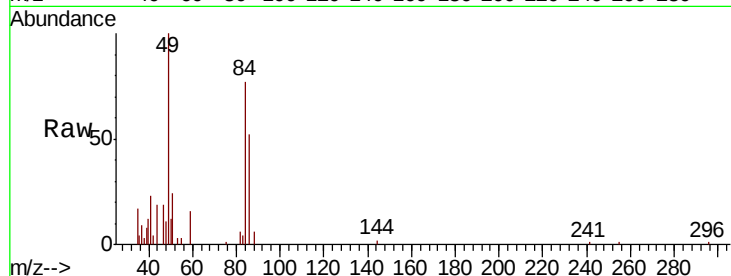




#20
Methylene Chloride
Concen: 0.121 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

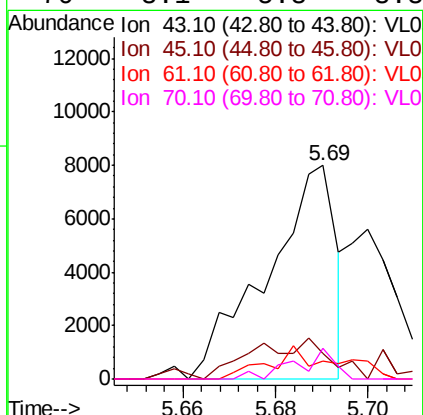
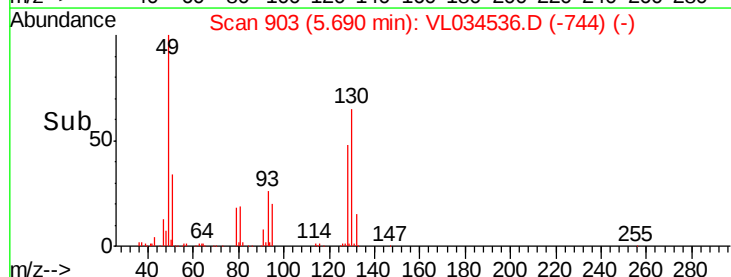
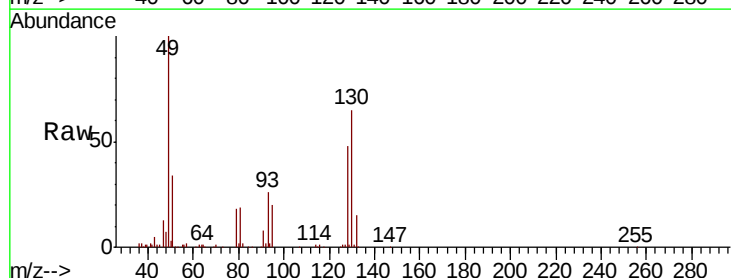
Instrument :
MSVOA_L
ClientSampleId :

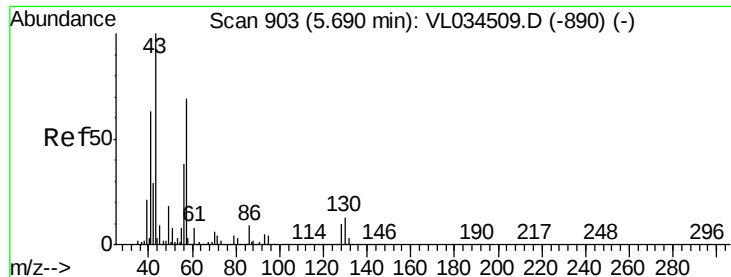
Tot Ion: 84 Resp: 7167
Ion Ratio Lower Upper
84 100
49 120.4 124.4 186.6#
51 31.7 37.0 55.6#
86 67.4 50.9 76.3



#25
Ethyl Acetate
Concen: 0.035 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

Tgt Ion: 43 Resp: 8273
Ion Ratio Lower Upper
43 100
45 28.6 8.3 12.5#
61 14.7 7.8 11.6#
70 8.1 5.8 8.8

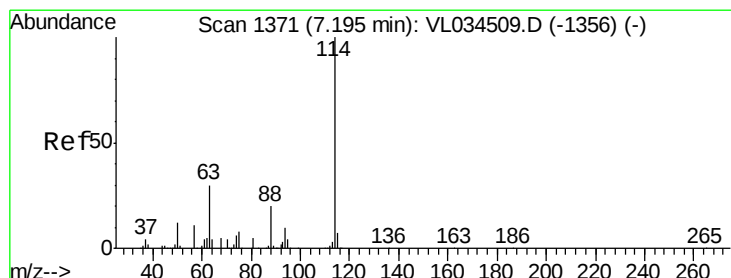
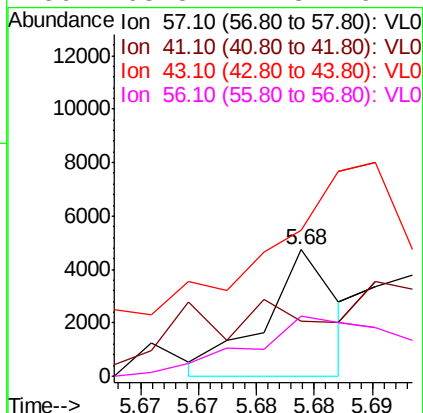
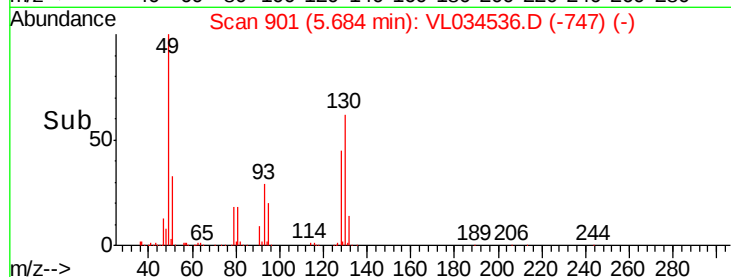
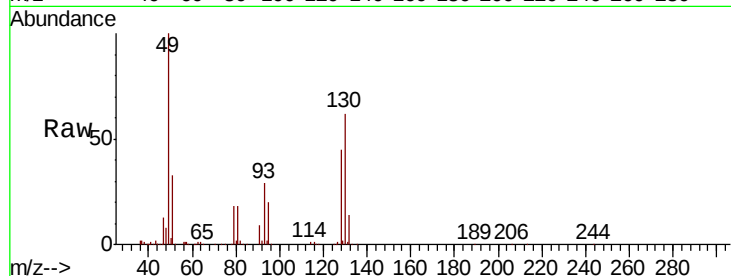




#26
Hexane
Concen: 0.020 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

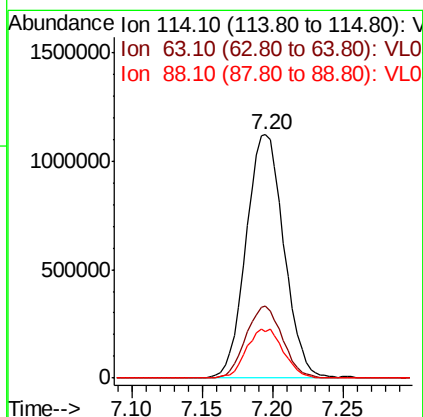
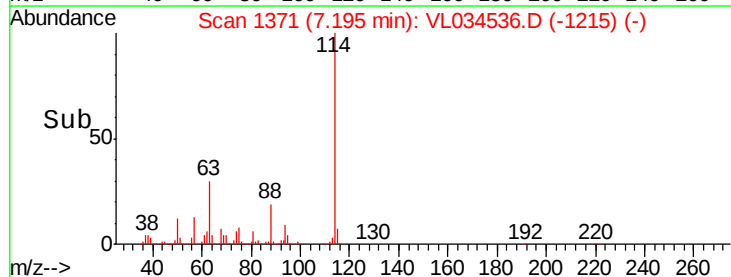
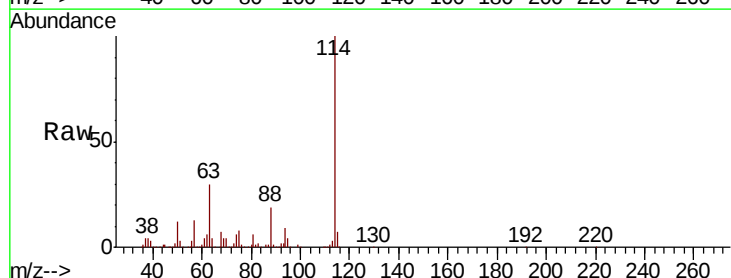
Instrument :
MSVOA_L
ClientSampleId :

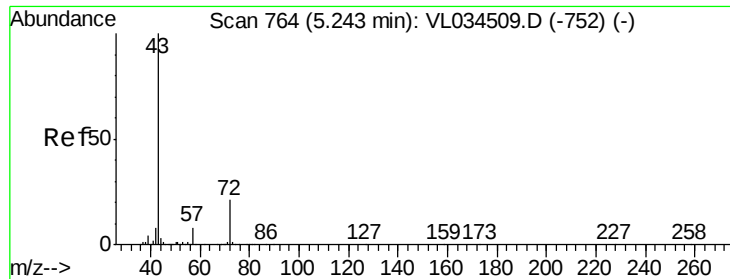
Tot Ion: 57 Resp: 2018
Ion Ratio Lower Upper
57 100
41 0.0 75.3 112.9#
43 0.0 189.4 284.2#
56 168.3 42.8 64.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

Tgt Ion: 114 Resp: 2109702
Ion Ratio Lower Upper
114 100
63 28.7 24.1 36.1
88 19.8 15.7 23.5

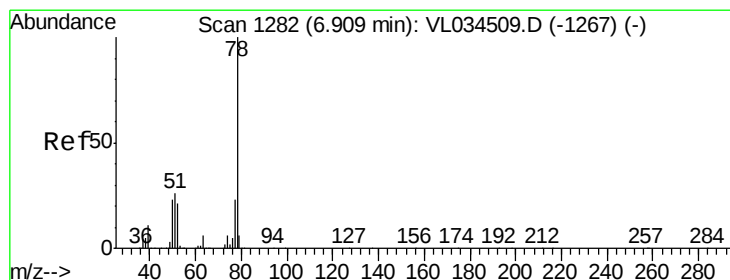
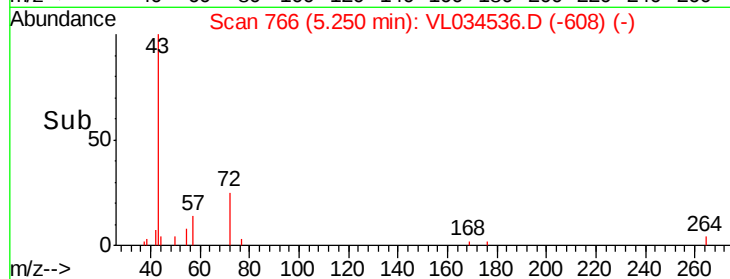
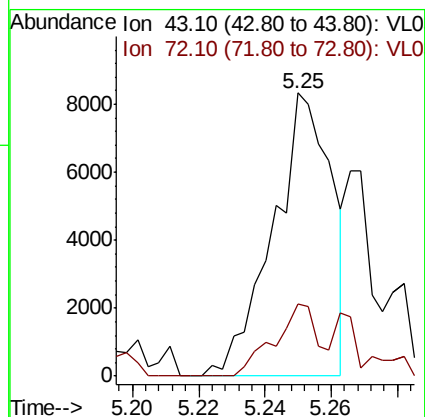
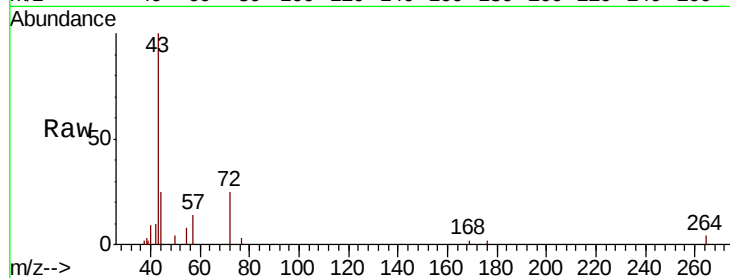




#34
2-Butanone
Concen: 0.068 ppbv
RT: 5.25 min Scan# 766
Delta R.T. 0.01 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

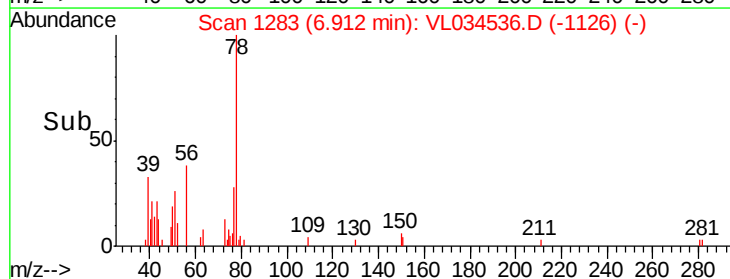
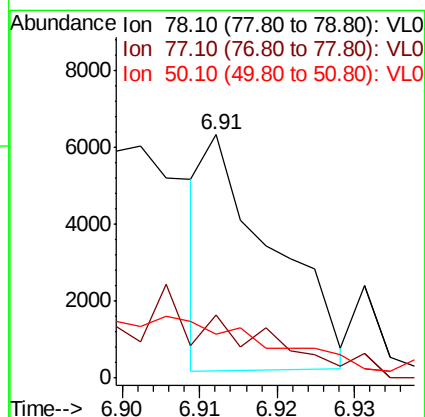
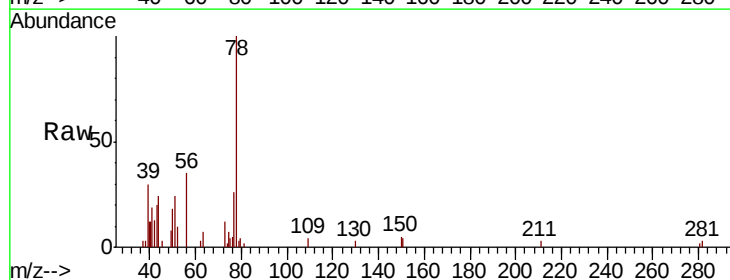
Instrument :
MSVOA_L
ClientSampleId :

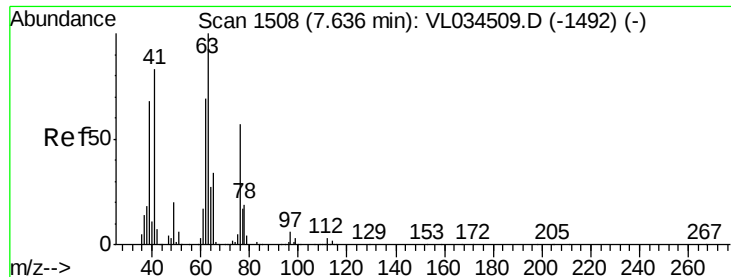
Tot Ion: 43 Resp: 10307
Ion Ratio Lower Upper
43 100
72 30.0 17.0 25.4#



#36
Benzene
Concen: 0.020 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

Tgt Ion: 78 Resp: 3734
Ion Ratio Lower Upper
78 100
77 24.5 18.6 28.0
50 9.5 18.8 28.2#

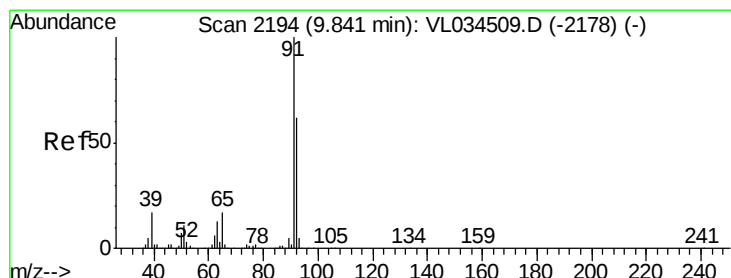
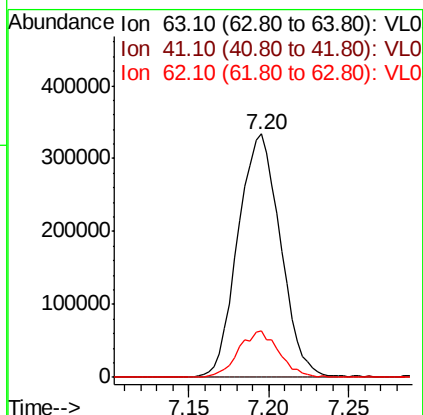
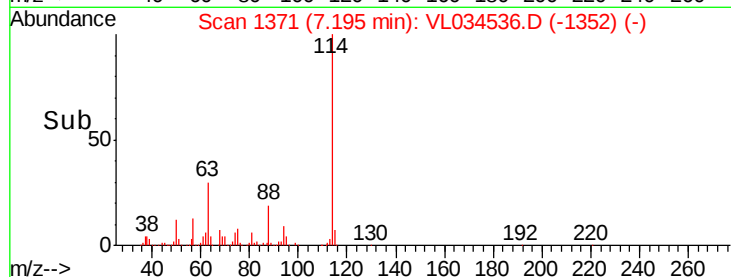
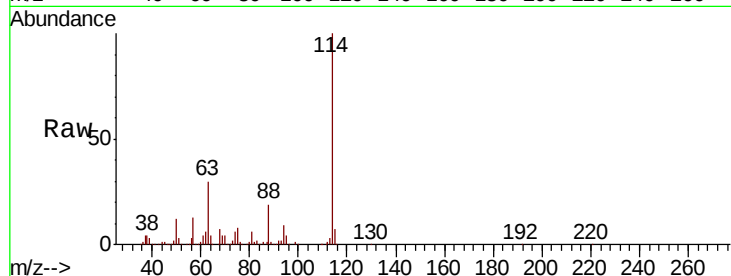




#39
 1,2-Dichloropropane
 Concen: 7.980 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.44 min
 Lab File: VL034536.D
 Acq: 31 Dec 2019 7:03

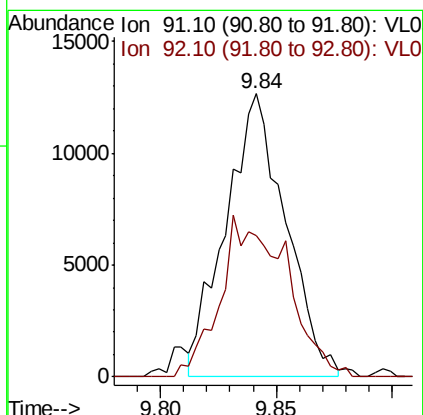
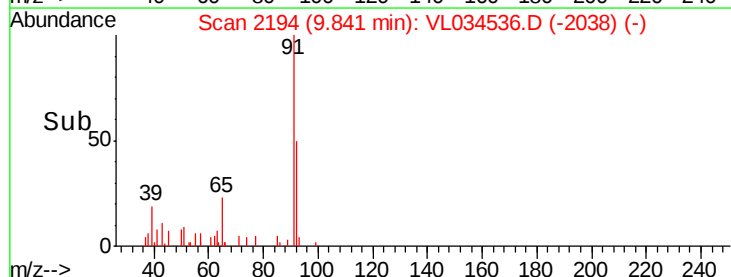
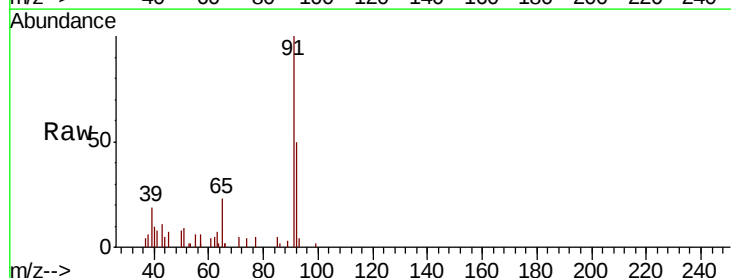
Instrument :
 MSVOA_L
 ClientSampleId :

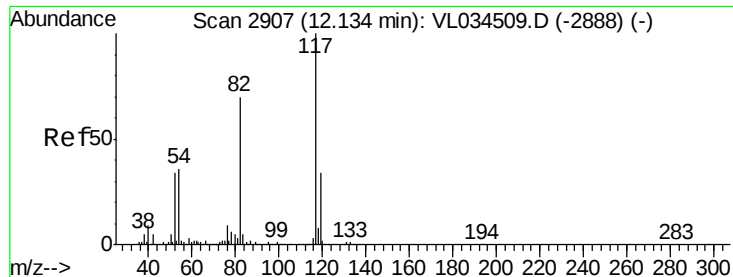
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	66.1	99.1#
62	18.9	54.9	82.3#



#53
 Toluene
 Concen: 0.113 ppbv
 RT: 9.84 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VL034536.D
 Acq: 31 Dec 2019 7:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	62.5	48.4	72.6

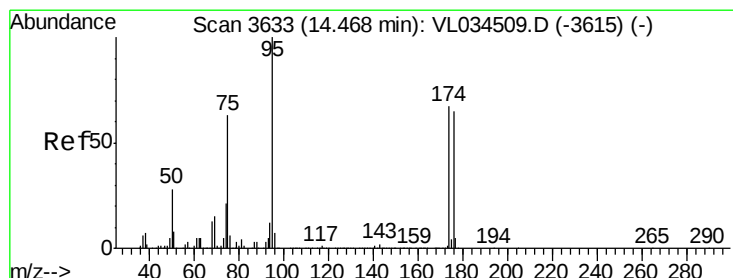
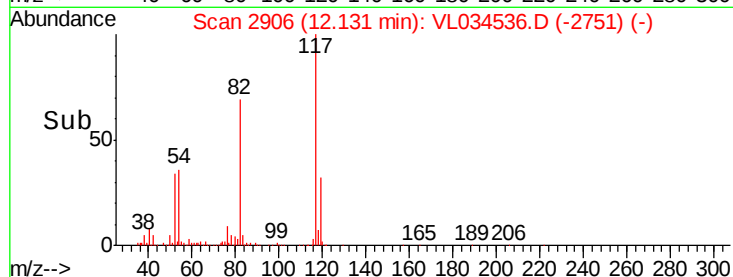
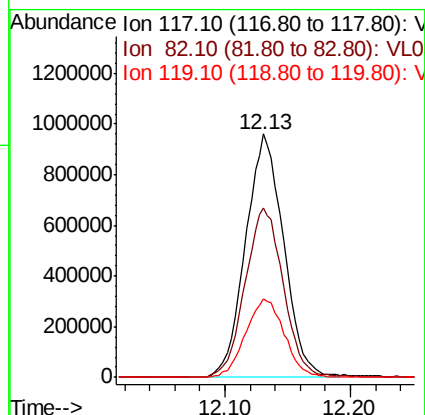
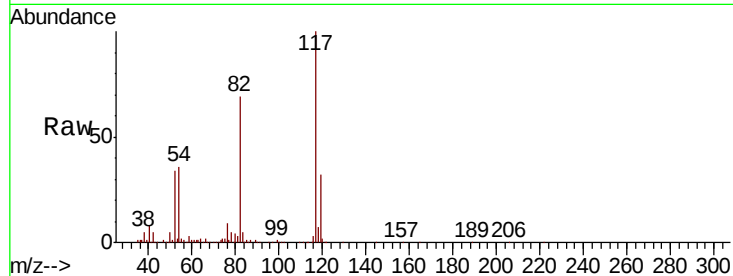




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

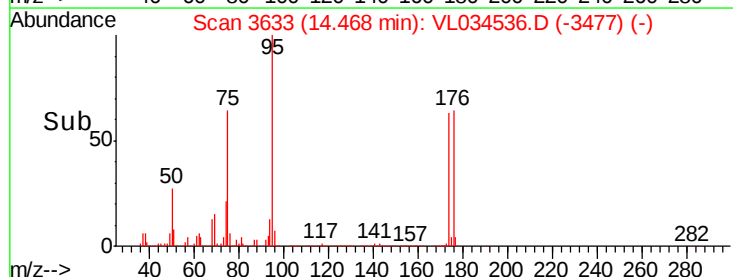
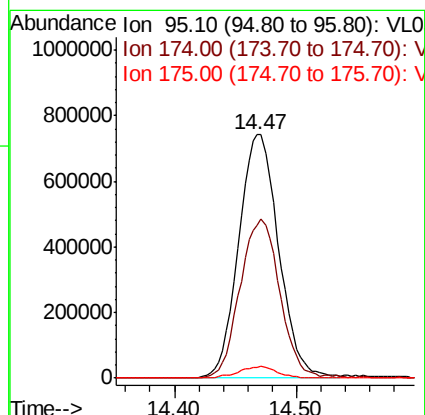
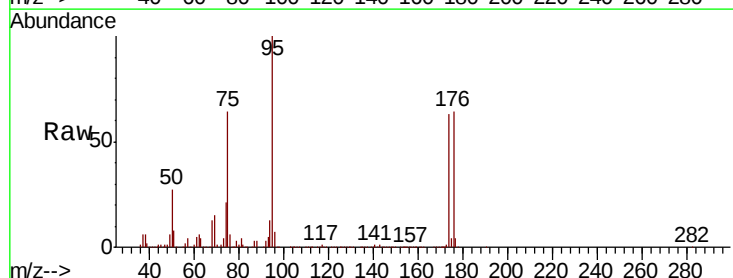
Instrument :
MSVOA_L
ClientSampleId :

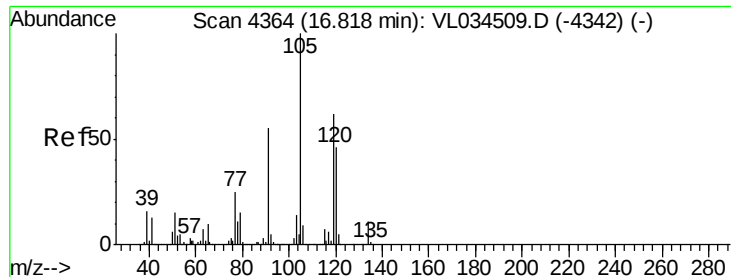
Tot Ion:117 Resp: 2027949
Ion Ratio Lower Upper
117 100
82 70.2 56.2 84.4
119 33.0 27.1 40.7



#68
1-Bromo-4-Fluorobenzene
Concen: 9.951 ppbv
RT: 14.47 min Scan# 3633
Delta R.T. 0.00 min
Lab File: VL034536.D
Acq: 31 Dec 2019 7:03

Tgt Ion: 95 Resp: 1683891
Ion Ratio Lower Upper
95 100
174 65.9 52.4 78.6
175 4.7 3.9 5.9





#74

1,2,4-Trimethylbenzene

Concen: 0.037 ppbv

RT: 16.82 min Scan# 4363

Delta R.T. -0.00 min

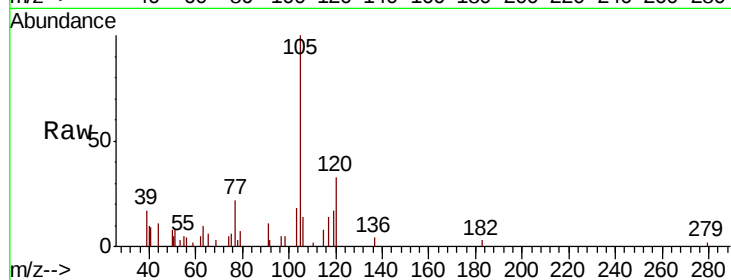
Lab File: VL034536.D

Acq: 31 Dec 2019 7:03

Instrument :

MSVOA_L

ClientSampleId :



Tot Ion:	105	Resp:	10554
Ion	Ratio	Lower	Upper
105	100		
120	33.1	36.7	55.1#
91	6.0	44.0	66.0#
77	17.6	19.9	29.9#

