

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034910.D
 Acq On : 17 Mar 2020 3:54
 Operator : SY/AP
 Sample : L1924-08DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 17 07:18:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	835153	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1822686	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1751580	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1415637	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

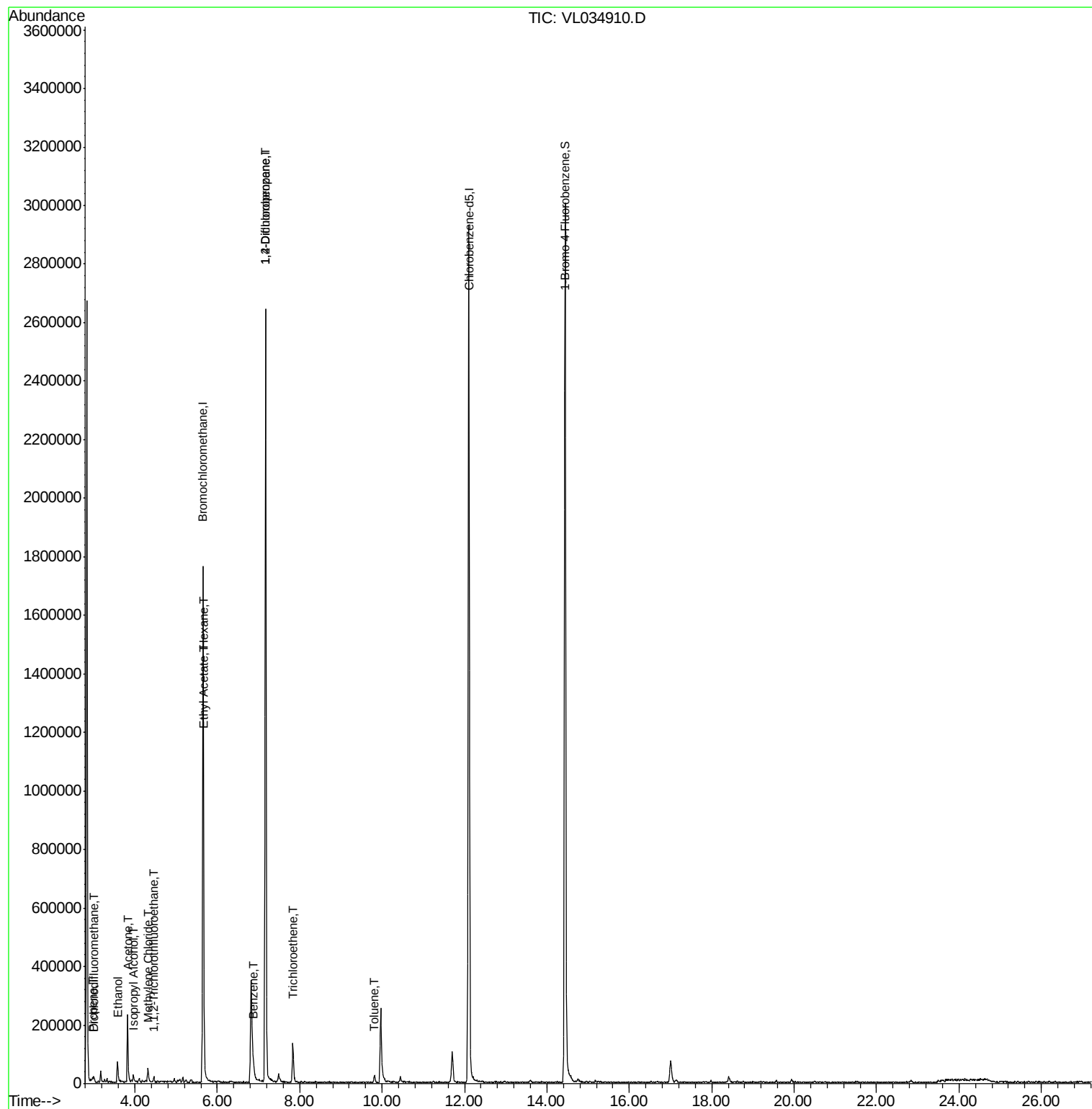
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	10823	0.095	ppbv #	71
9) Propene	2.97	41	2788	0.063	ppbv #	15
12) 1,1,2-Trichlorotrifluoroet	4.46	101	3275	0.038	ppbv #	59
13) Ethanol	3.57	45	68985	5.094	ppbv	99
15) Acetone	3.82	43	212934	1.967	ppbv	100
19) Isopropyl Alcohol	3.96	45	17420	0.255	ppbv #	1
20) Methylene Chloride	4.32	84	15222	0.445	ppbv #	87
25) Ethyl Acetate	5.67	43	7240	0.038	ppbv #	92
26) Hexane	5.67	57	8827	0.106	ppbv #	43
36) Benzene	6.89	78	4914	0.030	ppbv #	38
38) Trichloroethene	7.83	130	35898	0.582	ppbv	92
39) 1,2-Dichloropropane	7.17	63	497593	7.730	ppbv #	23
53) Toluene	9.81	91	9318	0.050	ppbv #	40

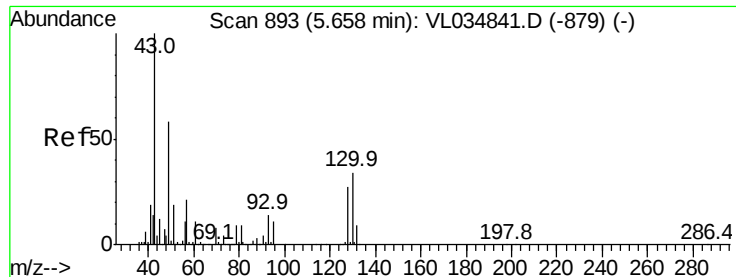
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 17 07:18:41 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034910.D

Acq: 17 Mar 2020 3:54

Instrument :
MSVOA_L
ClientSampleId :

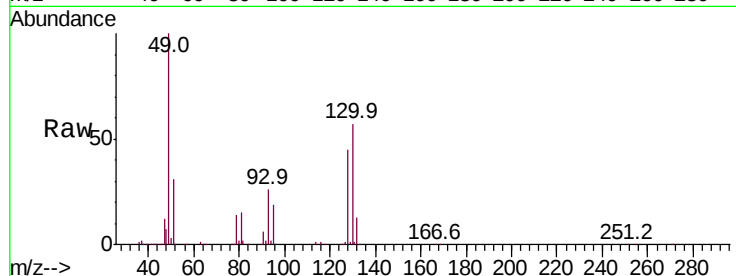
Tot Ion: 49 Resp: 835153

Ion Ratio Lower Upper

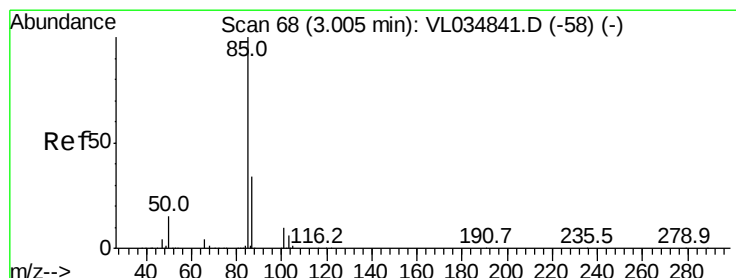
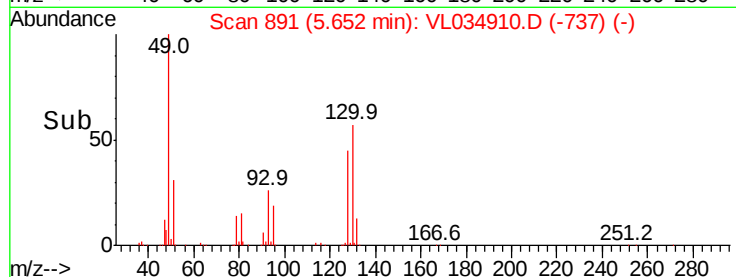
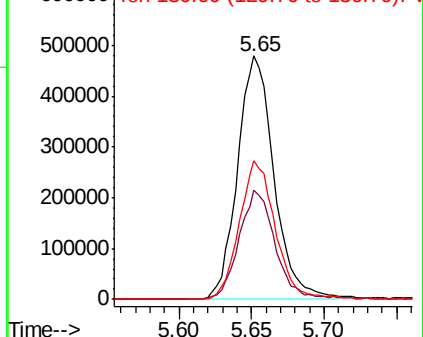
49 100

128 44.6 23.4 70.3

130 56.7 30.0 90.0



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: 0.095 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL034910.D

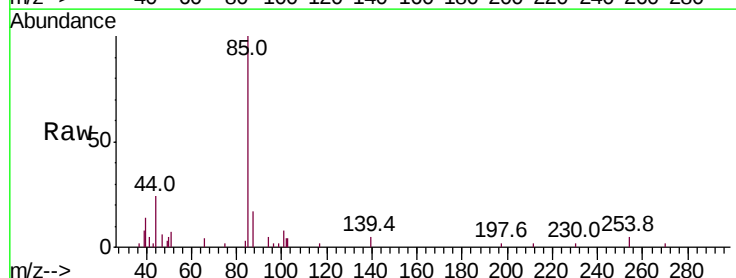
Acq: 17 Mar 2020 3:54

Tgt Ion: 85 Resp: 10823

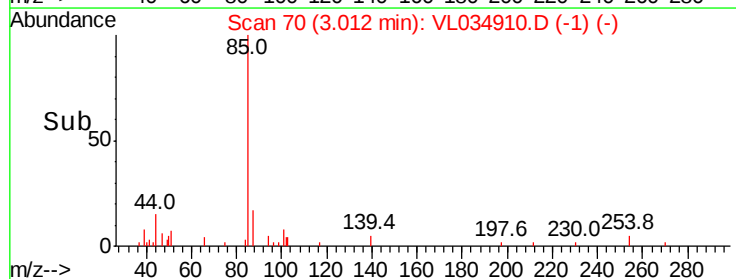
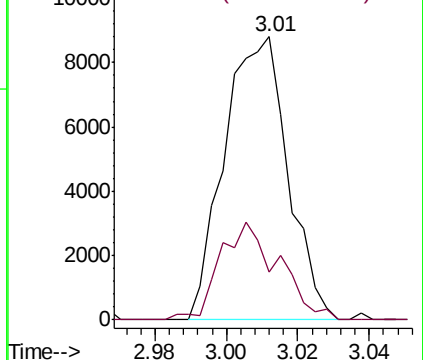
Ion Ratio Lower Upper

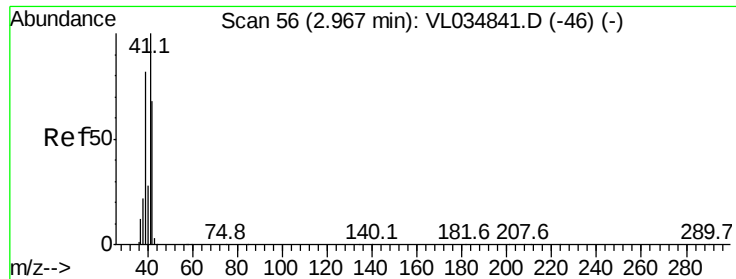
85 100

87 16.8 26.9 40.3#



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





#9

Propene

Concen: 0.063 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.01 min

Lab File: VL034910.D

Acq: 17 Mar 2020 3:54

Instrument :

MSVOA_L

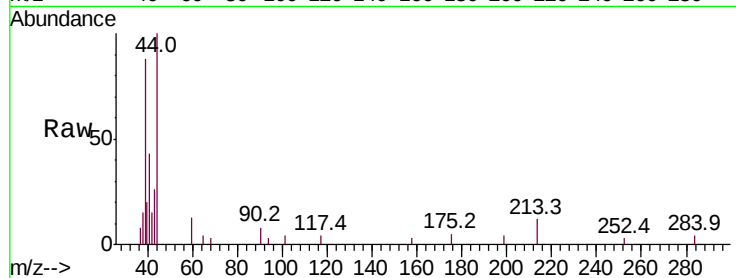
ClientSampled :

Tot Ion: 41 Resp: 2788

Ion Ratio Lower Upper

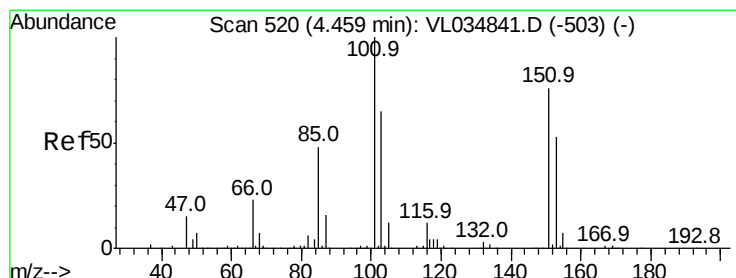
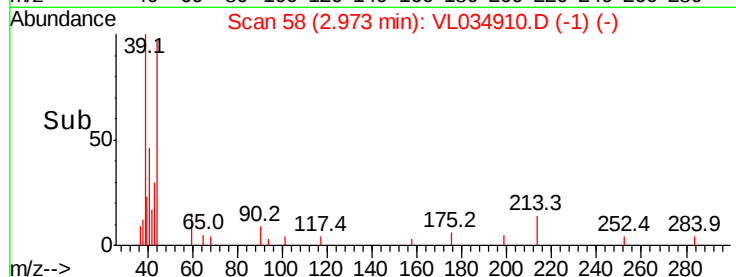
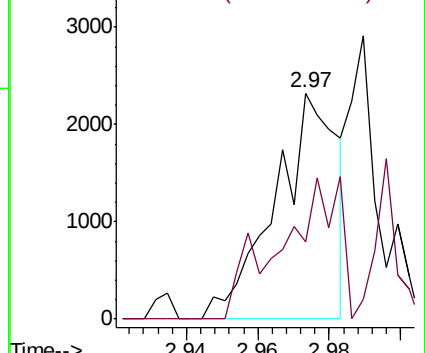
41 100

42 0.0 55.2 82.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.038 ppbv

RT: 4.46 min Scan# 520

Delta R.T. 0.00 min

Lab File: VL034910.D

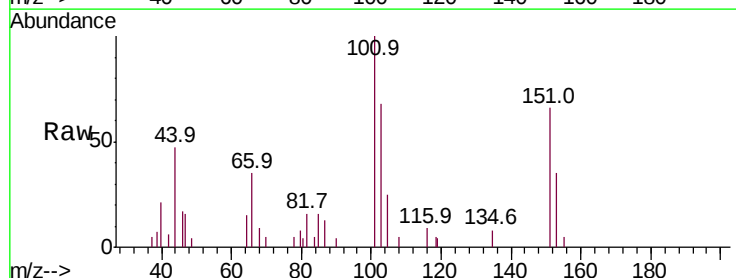
Acq: 17 Mar 2020 3:54

Tgt Ion: 101 Resp: 3275

Ion Ratio Lower Upper

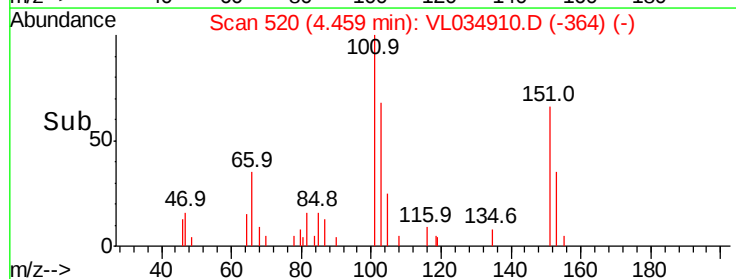
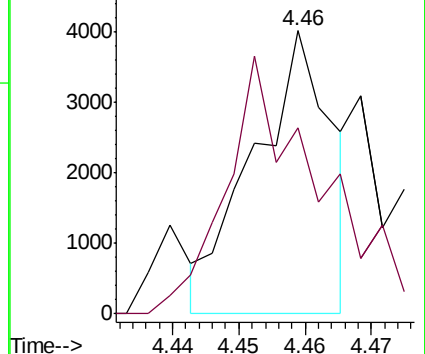
101 100

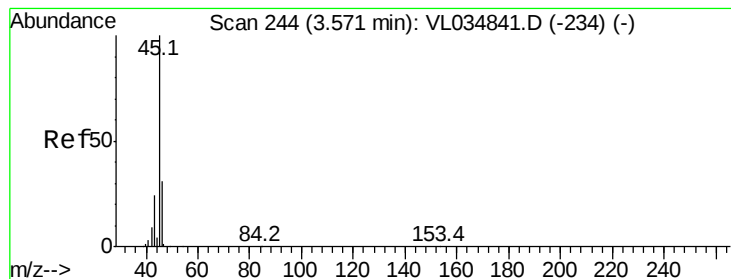
151 111.4 60.8 91.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 5.094 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL034910.D

Acq: 17 Mar 2020 3:54

Instrument :

MSVOA_L

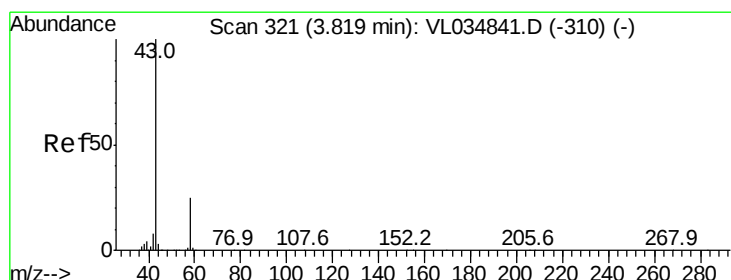
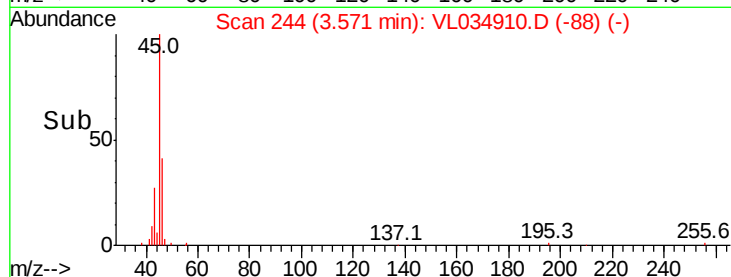
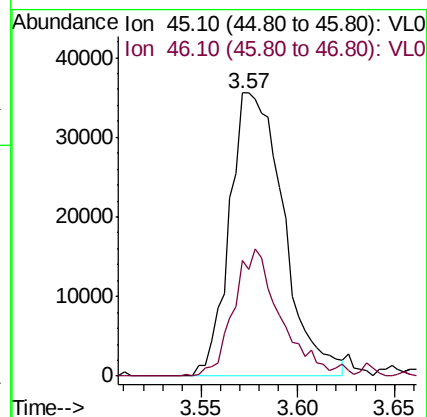
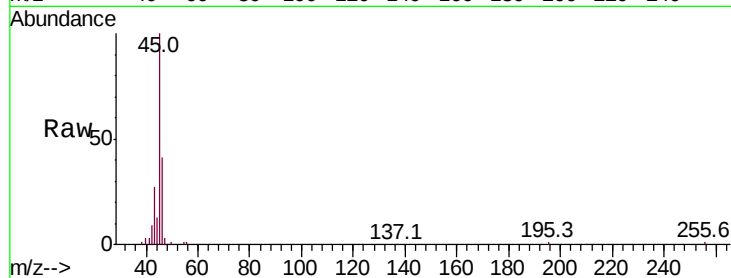
ClientSampleId :

Tot Ion: 45 Resp: 68985

Ion Ratio Lower Upper

45 100

46 39.3 16.0 64.0



#15

Acetone

Concen: 1.967 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034910.D

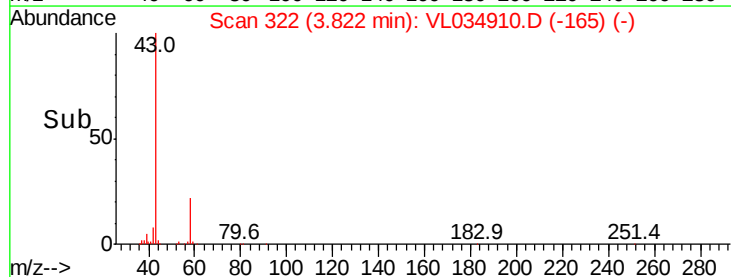
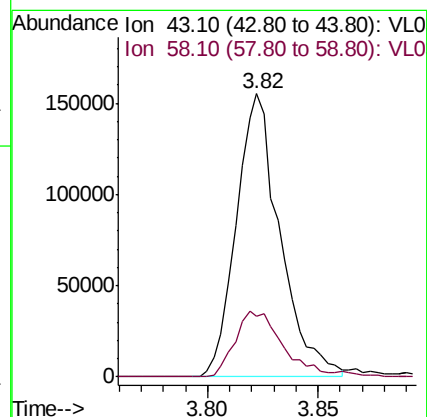
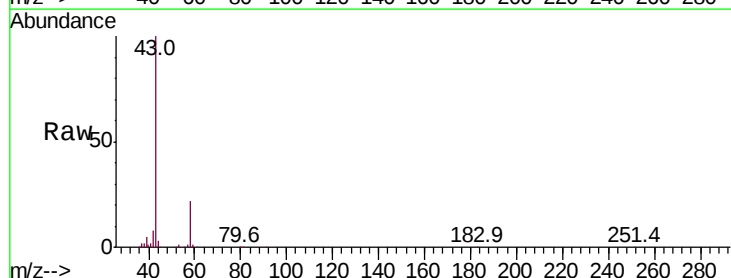
Acq: 17 Mar 2020 3:54

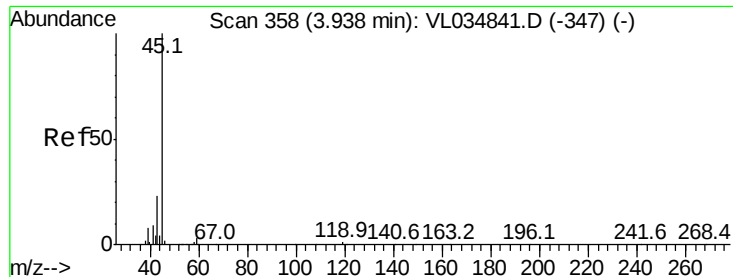
Tgt Ion: 43 Resp: 212934

Ion Ratio Lower Upper

43 100

58 26.4 21.0 31.6





#19

Isopropyl Alcohol

Concen: 0.255 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL034910.D

Acq: 17 Mar 2020 3:54

Instrument :

MSVOA_L

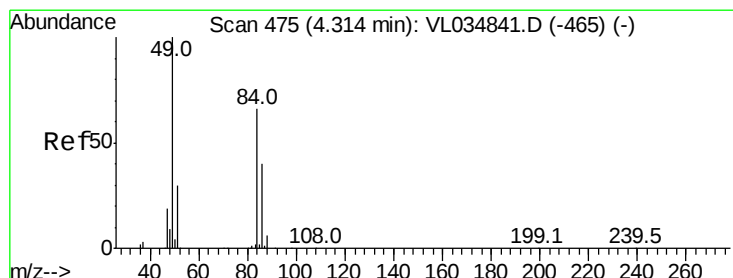
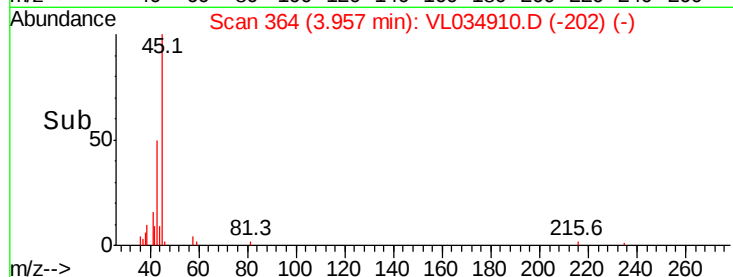
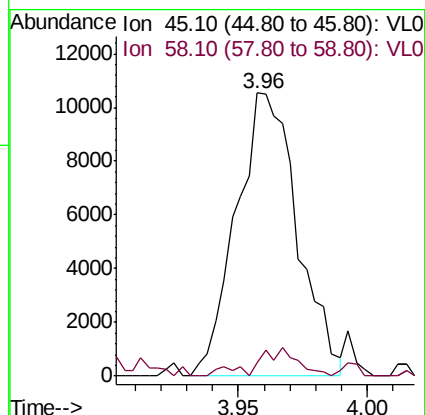
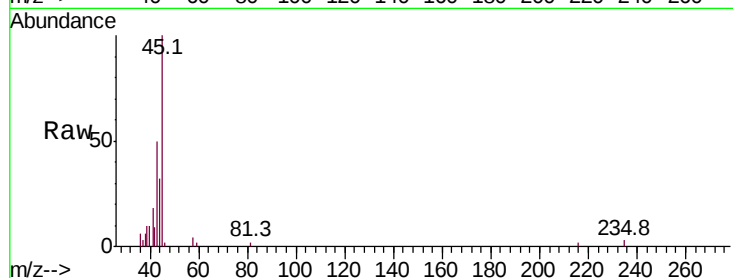
ClientSampleId :

Tot Ion: 45 Resp: 17420

Ion Ratio Lower Upper

45 100

58 327.2 30.5 45.7#



#20

Methylene Chloride

Concen: 0.445 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL034910.D

Acq: 17 Mar 2020 3:54

Tgt Ion: 84 Resp: 15222

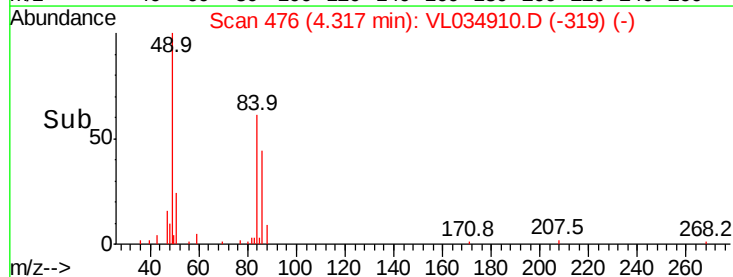
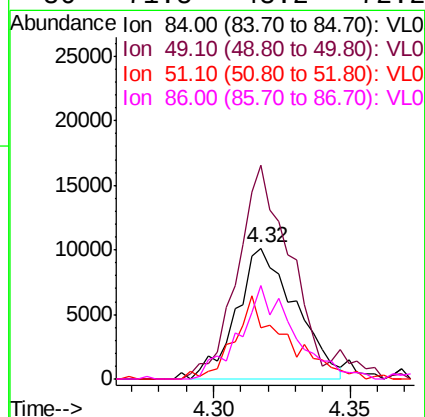
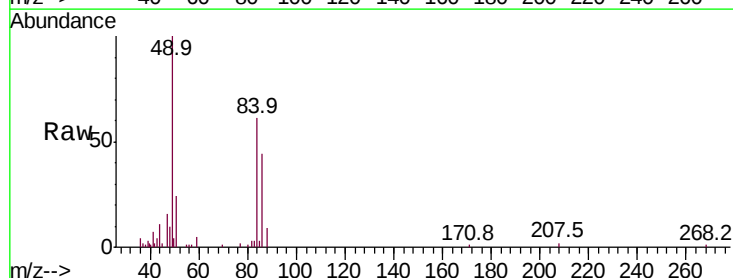
Ion Ratio Lower Upper

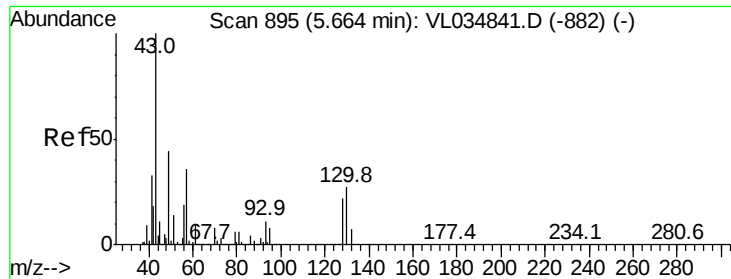
84 100

49 165.8 121.5 182.3

51 32.5 36.6 55.0#

86 71.5 48.2 72.2

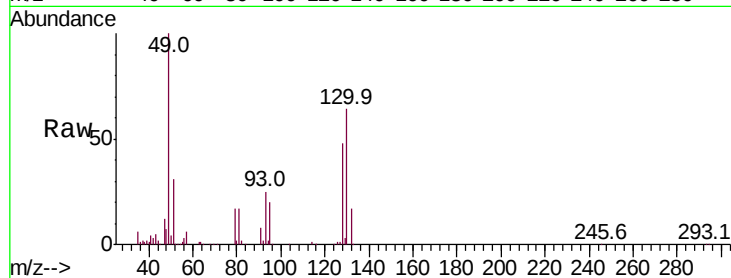




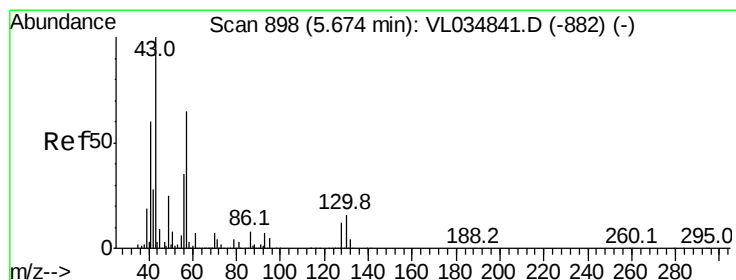
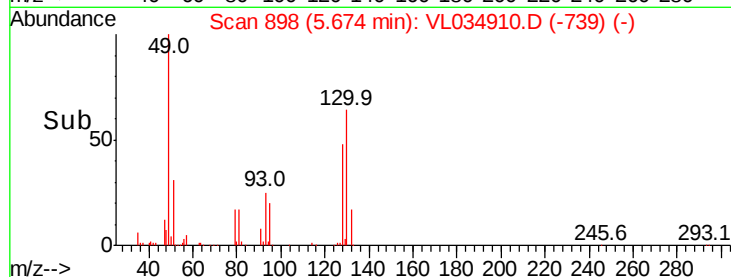
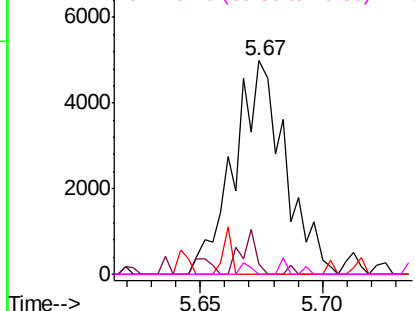
#25
Ethyl Acetate
Concen: 0.038 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL034910.D
Acq: 17 Mar 2020 3:54

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	7240
Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.2	12.2
61	6.1	7.8	11.6#
70	2.2	5.8	8.8#

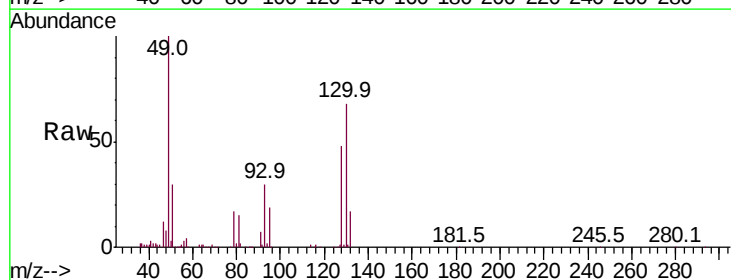


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

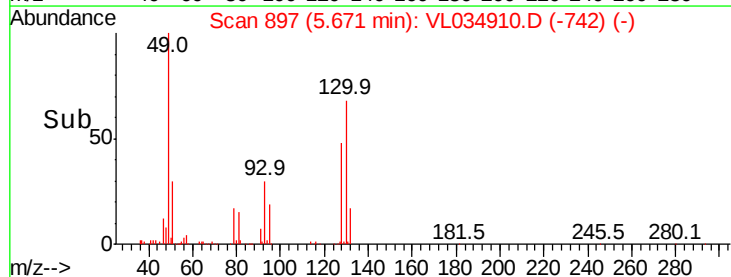
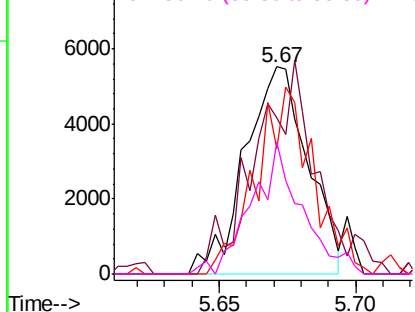


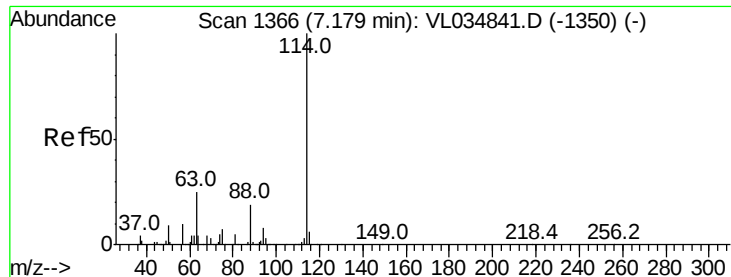
#26
Hexane
Concen: 0.106 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.00 min
Lab File: VL034910.D
Acq: 17 Mar 2020 3:54

Tgt Ion:	57	Resp:	8827
Ion	Ratio	Lower	Upper
57	100		
41	101.6	72.6	109.0
43	84.2	183.8	275.6#
56	50.7	41.9	62.9



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

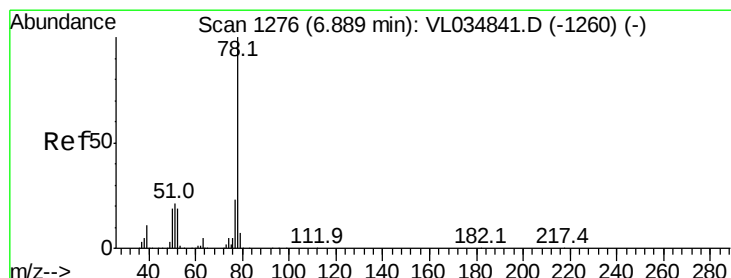
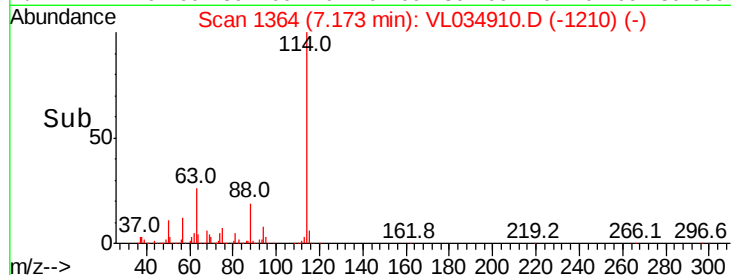
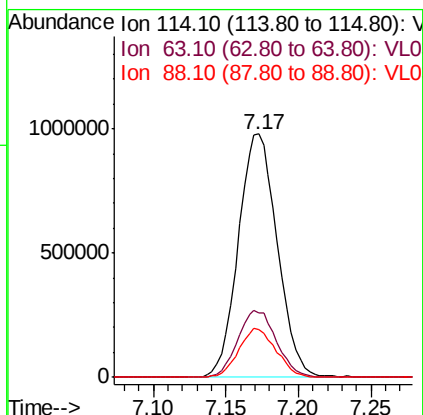
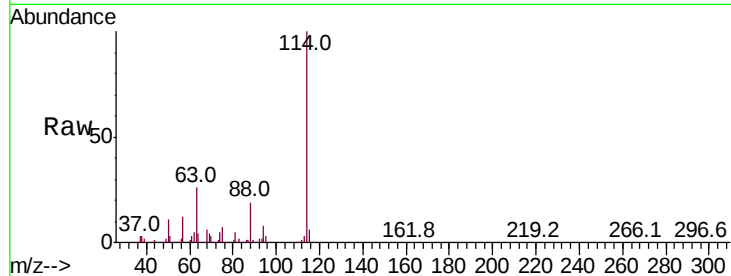




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL034910.D
 Acq: 17 Mar 2020 3:54

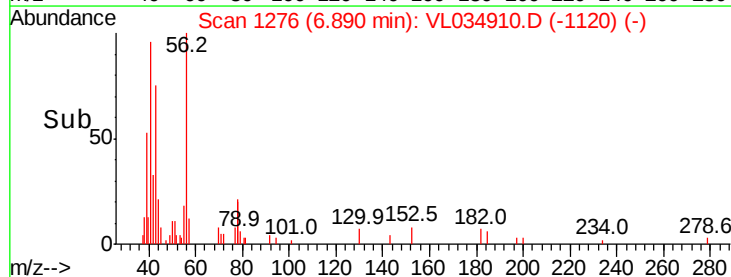
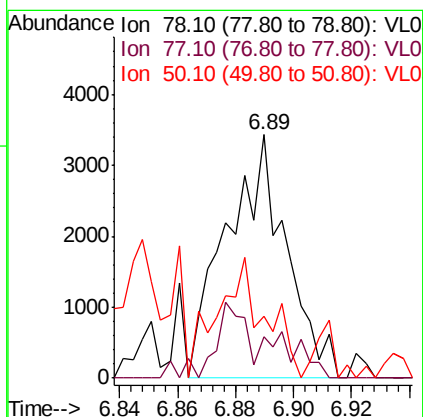
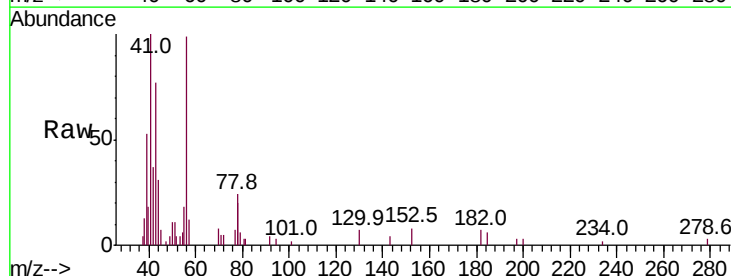
Instrument :
 MSVOA_L
 ClientSampleId :

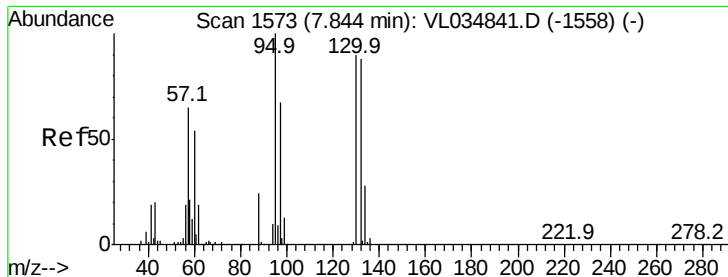
Tot Ion:114 Resp: 1822686
 Ion Ratio Lower Upper
 114 100
 63 27.4 20.6 31.0
 88 19.3 15.0 22.6



#36
 Benzene
 Concen: 0.030 ppbv
 RT: 6.89 min Scan# 1276
 Delta R.T. 0.00 min
 Lab File: VL034910.D
 Acq: 17 Mar 2020 3:54

Tgt Ion: 78 Resp: 4914
 Ion Ratio Lower Upper
 78 100
 77 71.8 18.2 27.2#
 50 25.4 15.2 22.8#

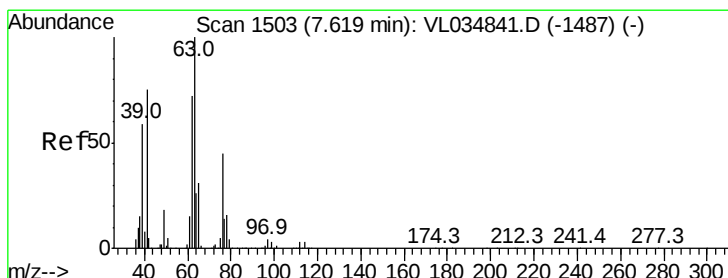
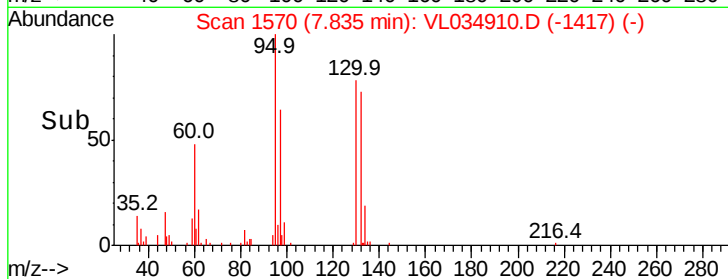
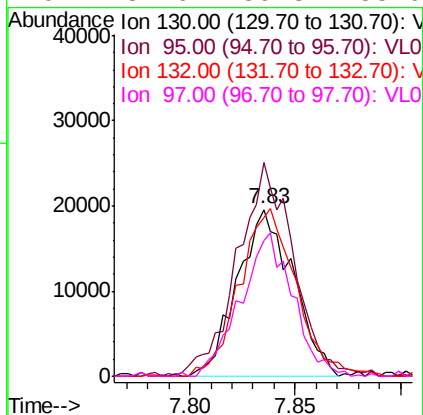
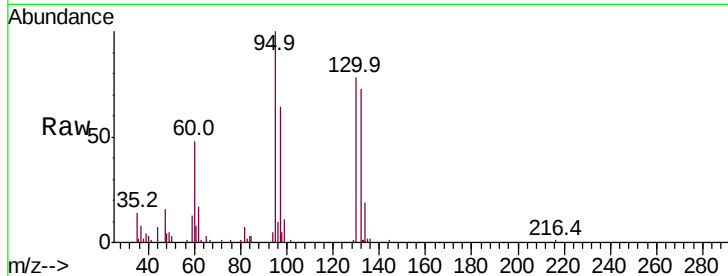




#38
 Trichloroethene
 Concen: 0.582 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: VL034910.D
 Acq: 17 Mar 2020 3:54

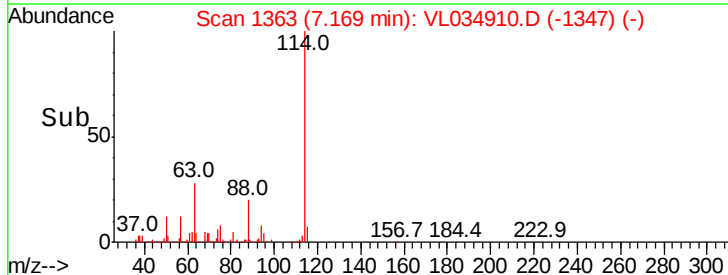
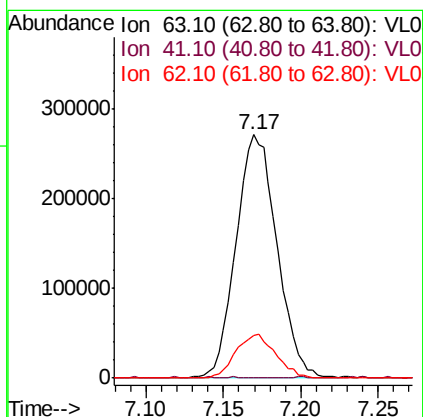
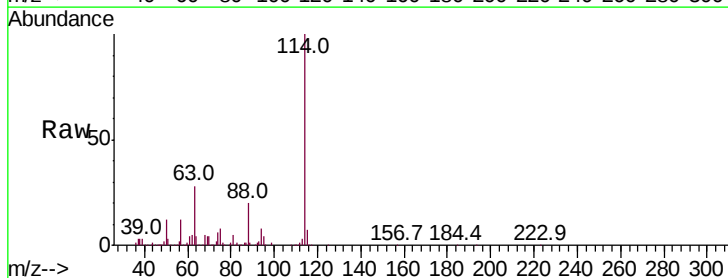
Instrument :
 MSVOA_L
 ClientSampleId :

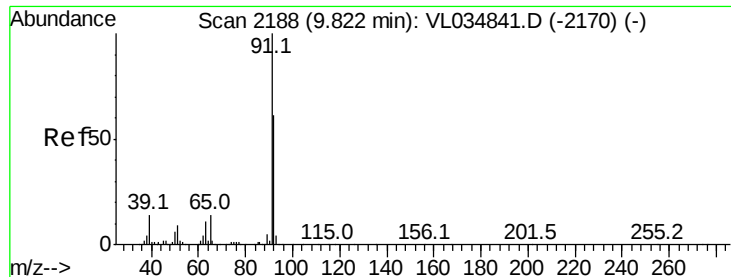
Tot Ion:	130	Resp:	35898
Ion	Ratio	Lower	Upper
130	100		
95	123.8	88.5	132.7
132	95.0	78.0	117.0
97	81.6	59.3	88.9



#39
 1,2-Dichloropropane
 Concen: 7.730 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL034910.D
 Acq: 17 Mar 2020 3:54

Tgt Ion:	63	Resp:	497593
Ion	Ratio	Lower	Upper
63	100		
41	0.3	59.8	89.8#
62	17.7	57.6	86.4#





#53

Toluene

Concen: 0.050 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.01 min

Lab File: VL034910.D

Acq: 17 Mar 2020 3:54

Instrument :

MSVOA_L

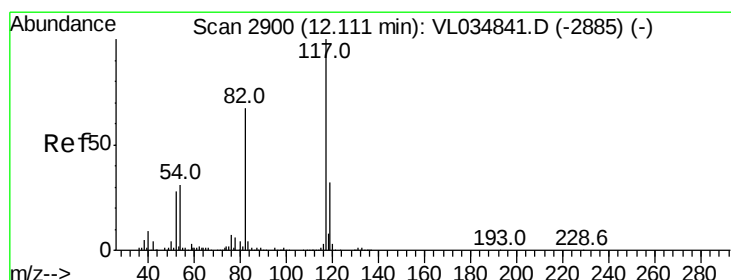
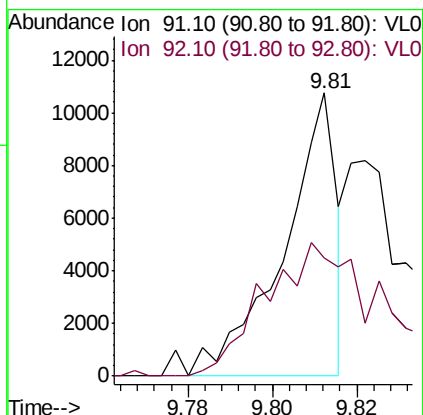
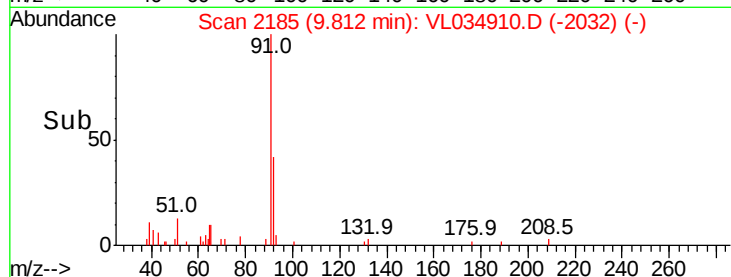
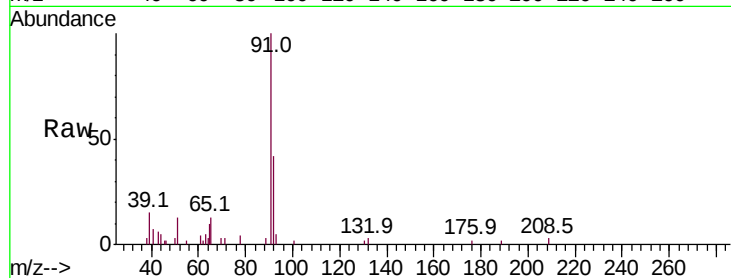
ClientSampled :

Tot Ion: 91 Resp: 9318

Ion Ratio Lower Upper

91 100

92 106.7 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034910.D

Acq: 17 Mar 2020 3:54

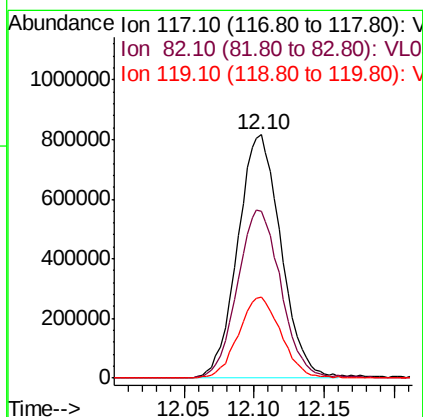
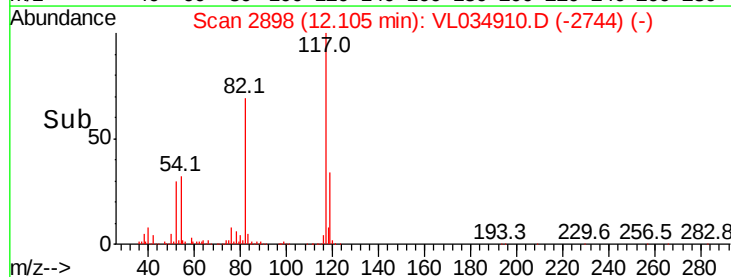
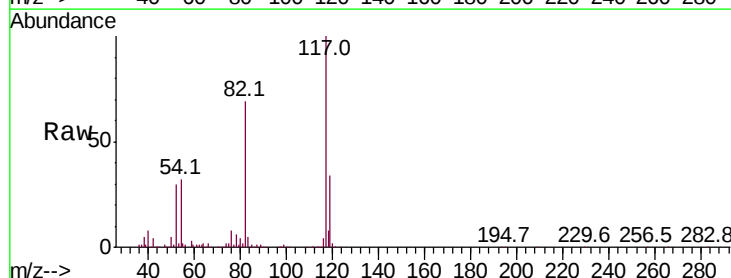
Tgt Ion: 117 Resp: 1751580

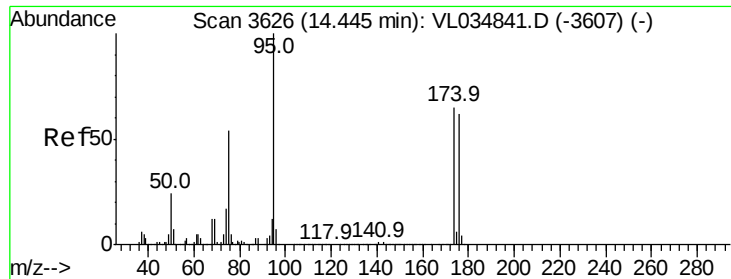
Ion Ratio Lower Upper

117 100

82 70.0 51.1 76.7

119 33.0 27.3 40.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.363 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL034910.D

Acq: 17 Mar 2020 3:54

Instrument :

MSVOA_L

ClientSampleId :

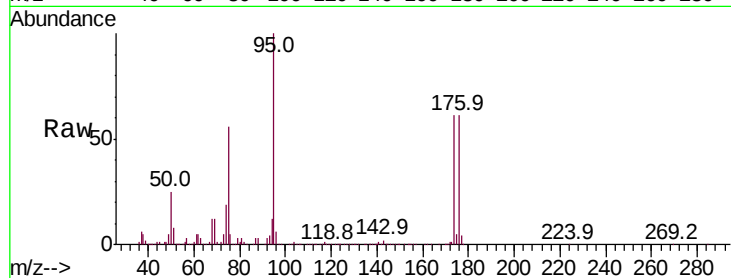
Tot Ion: 95 Resp: 1415637

Ion Ratio Lower Upper

95 100

174 64.7 55.2 82.8

175 4.7 4.3 6.5



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

