

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 :
 FD-01DL

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%

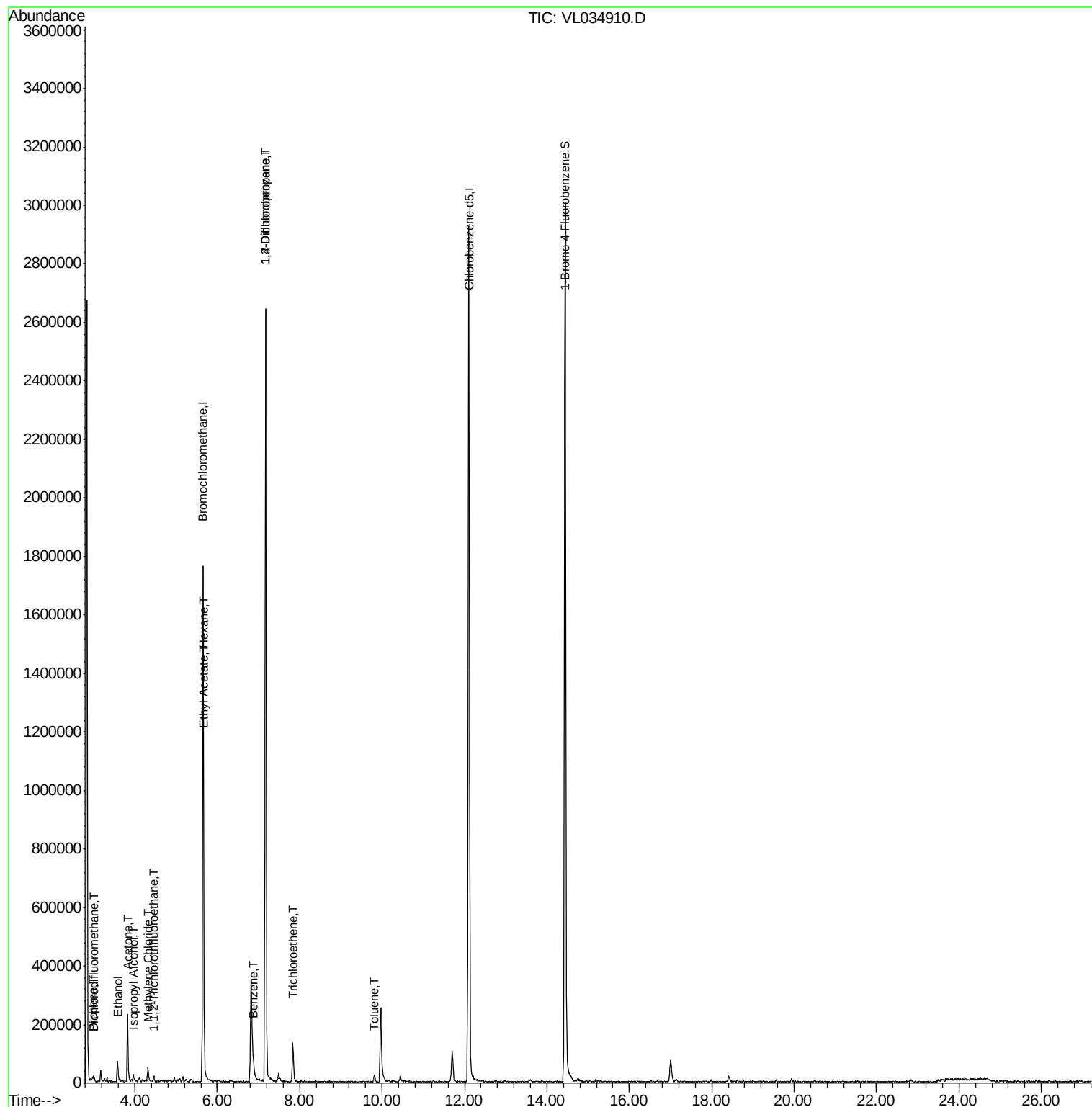
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	10823	0.095	ppbv #	71
9) Propene	2.97	41	2788	0.063	ppbv #	15
12) 1,1,2-Trichlorotrifluoroet	4.46	101	3275	0.038	ppbv #	59
13) Ethanol	3.57	45	68985	5.094	ppbv	99
15) Acetone	3.82	43	212934	1.967	ppbv	100
19) Isopropyl 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

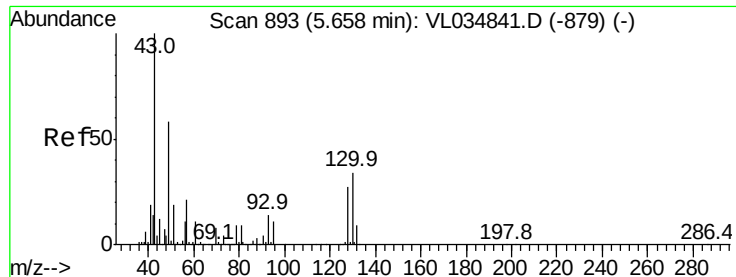
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

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Instrument :

MSVOA_L

ClientSampleId :

FD-01DL

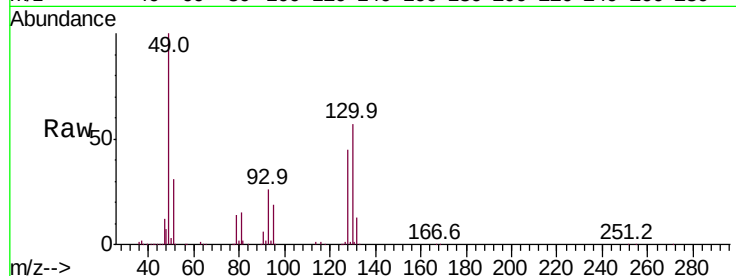
Tot Ion: 49 Resp: 835153

Ion Ratio Lower Upper

49 100

128 44.6 23.4 70.3

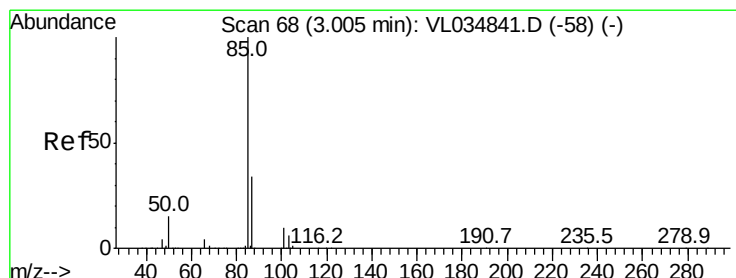
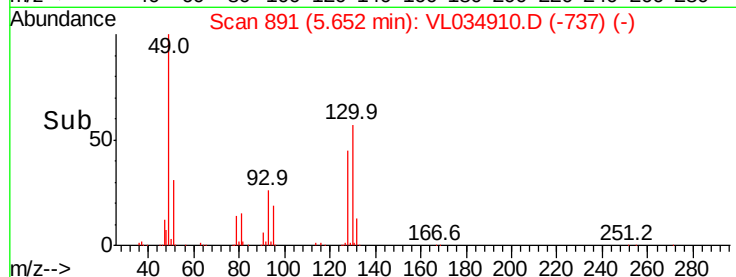
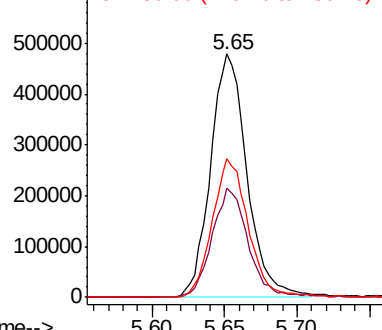
130 56.7 30.0 90.0



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

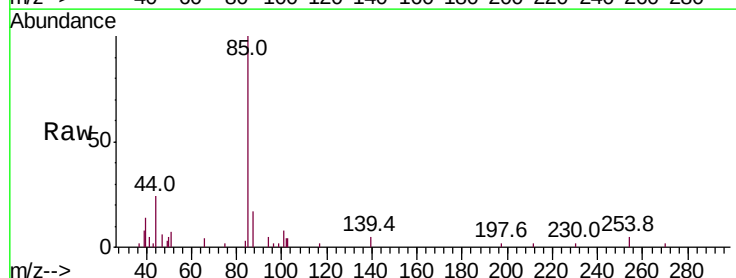
Acq: 17 Mar 2020 3:54

Tgt Ion: 85 Resp: 10823

Ion Ratio Lower Upper

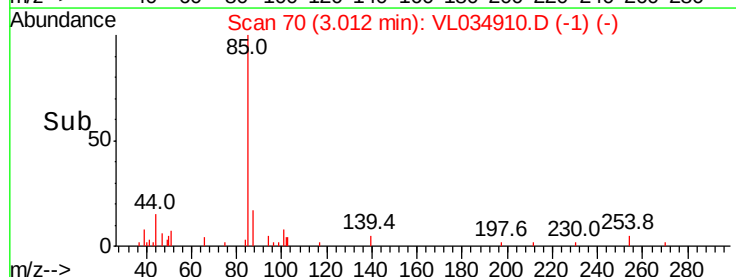
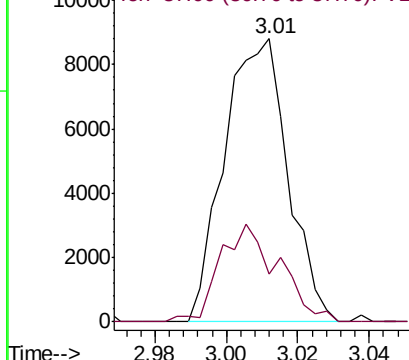
85 100

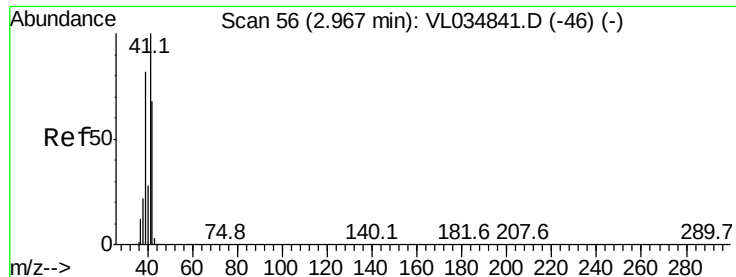
87 16.8 26.9 40.3#



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

ClientSampleId :

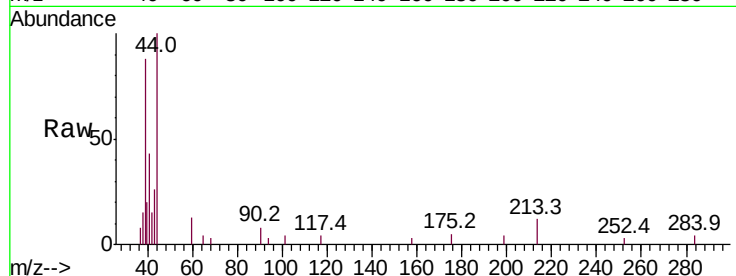
FD-01DL

Tot Ion: 41 Resp: 2788

Ion Ratio Lower Upper

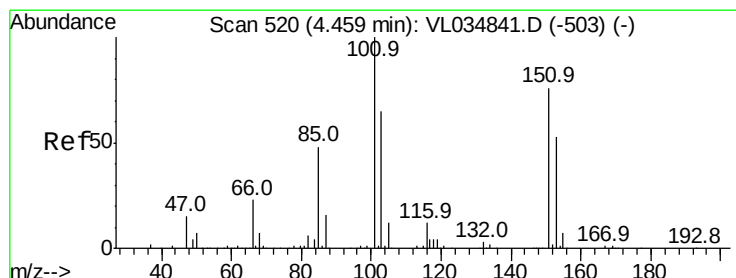
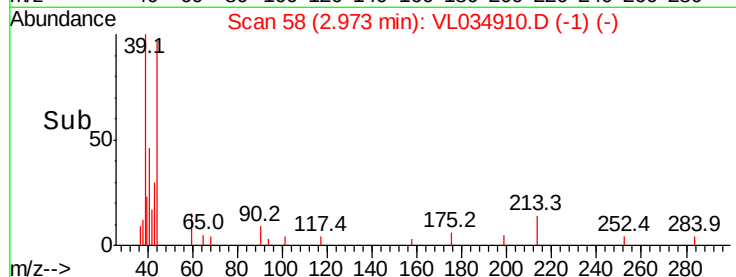
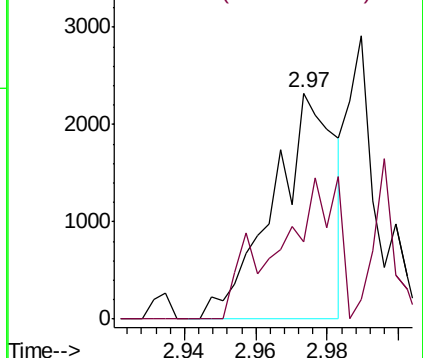
41 100

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

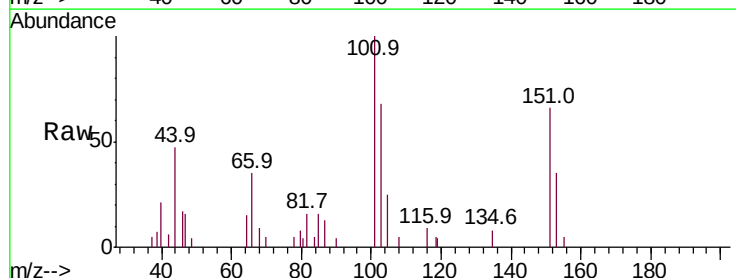
Acq: 17 Mar 2020 3:54

Tgt Ion: 101 Resp: 3275

Ion Ratio Lower Upper

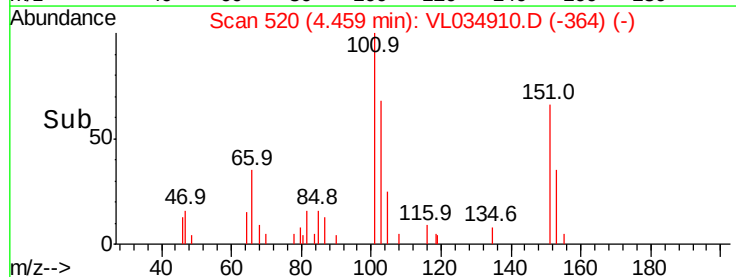
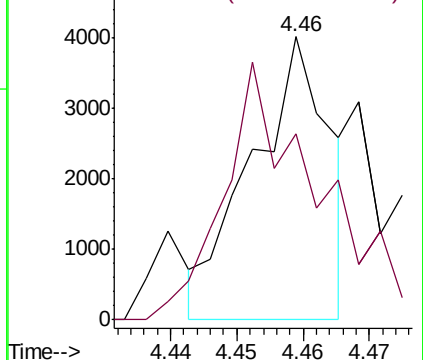
101 100

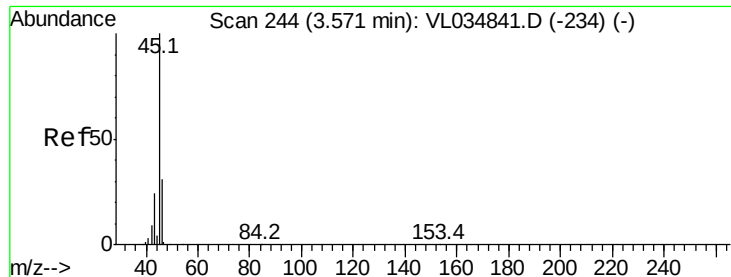
151 111.4 60.8 91.2#



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 :

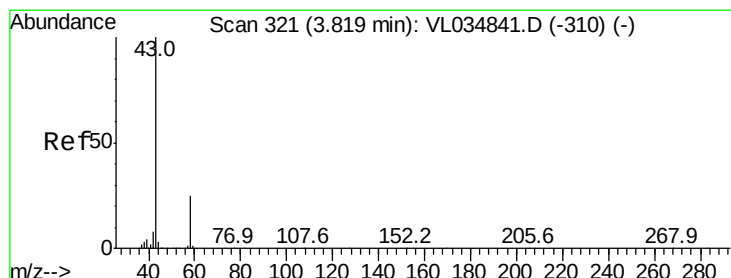
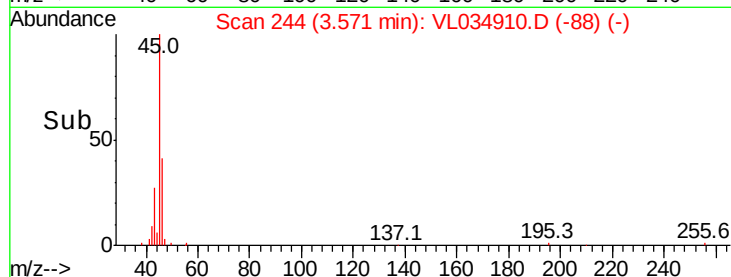
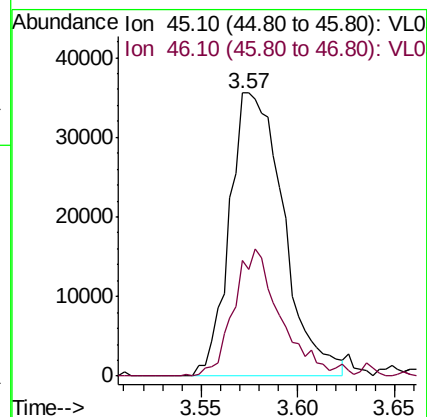
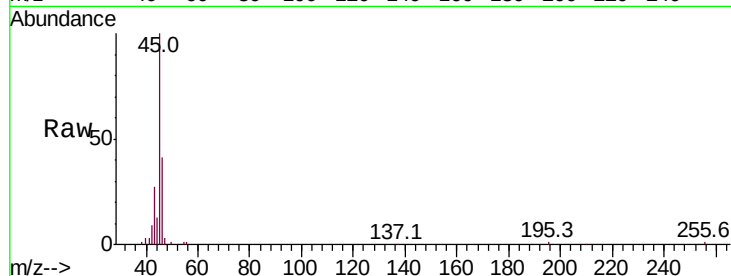
FD-01DL

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

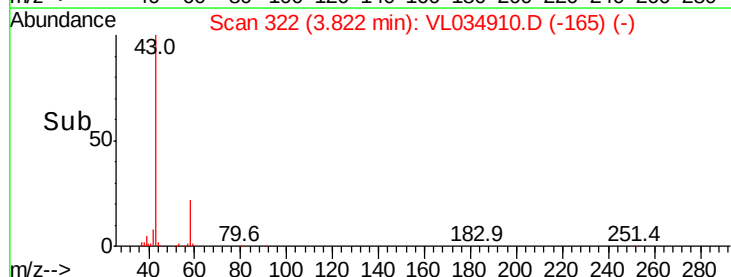
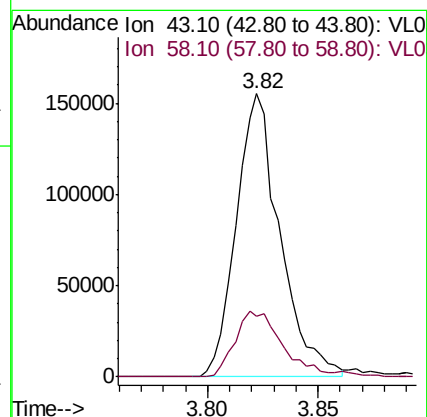
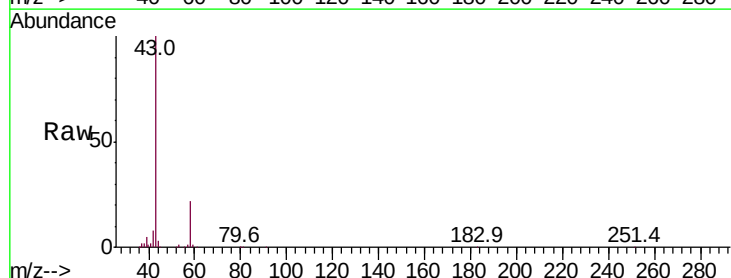
Acq: 17 Mar 2020 3:54

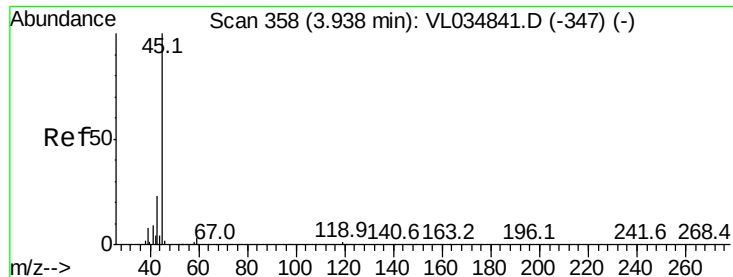
Tgt Ion: 43 Resp: 212934

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 :

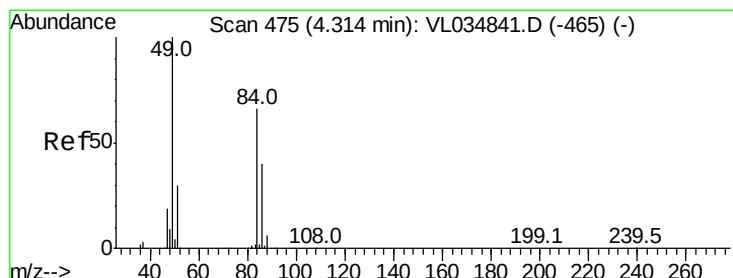
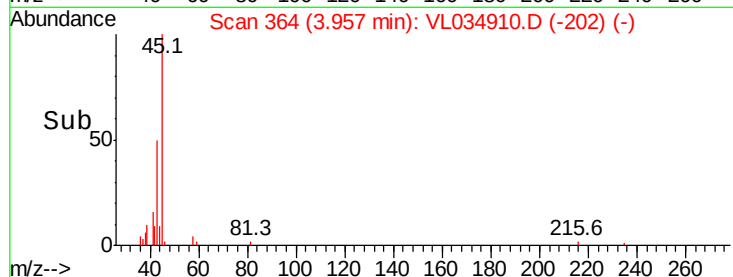
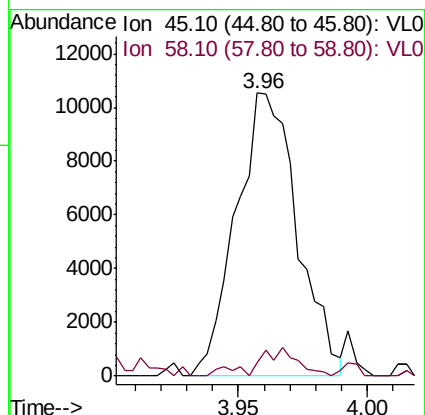
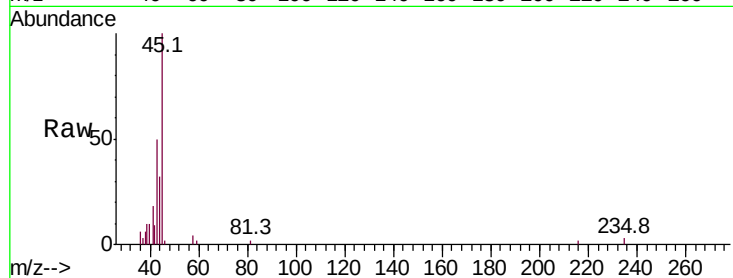
FD-01DL

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

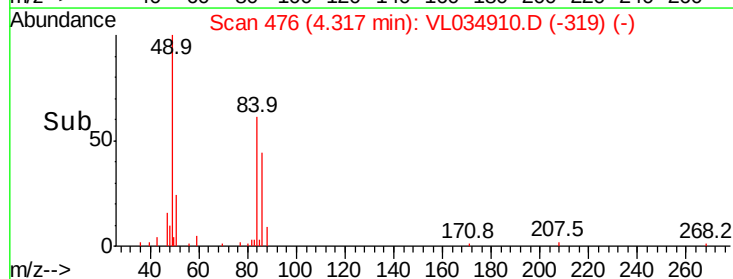
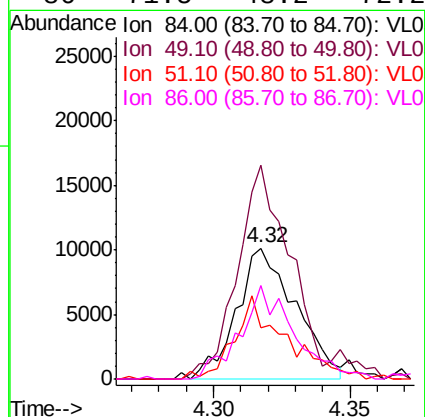
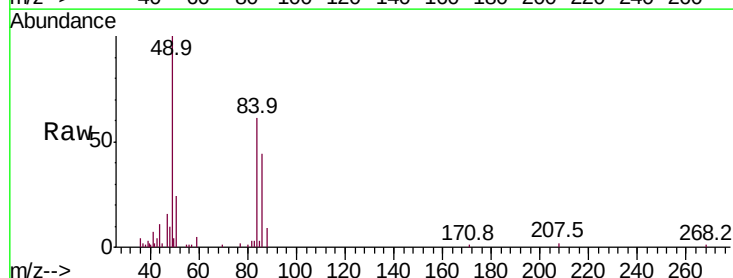
Ion Ratio Lower Upper

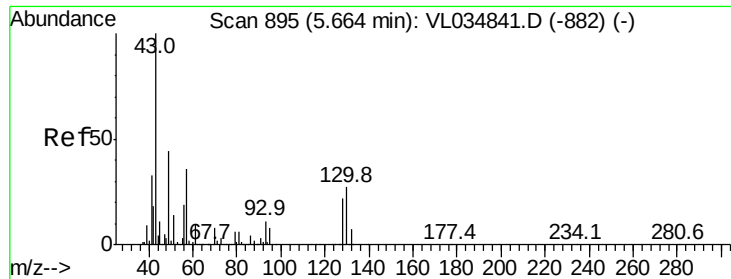
84 100

49 165.8 121.5 182.3

51 32.5 36.6 55.0#

86 71.5 48.2 72.2

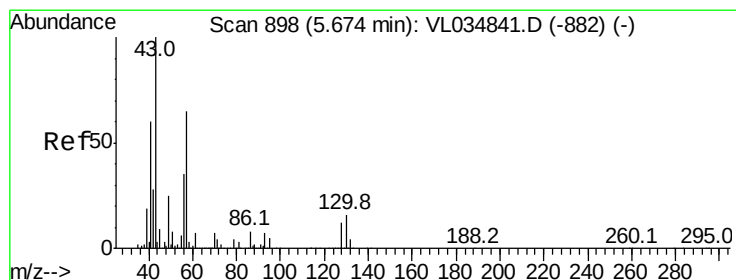
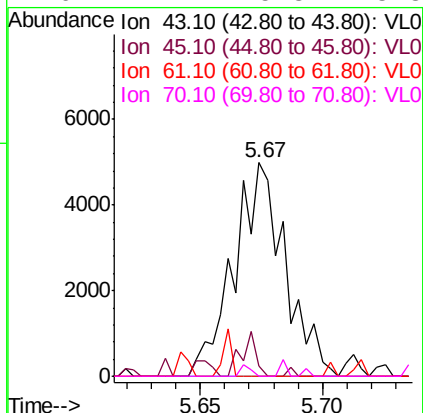
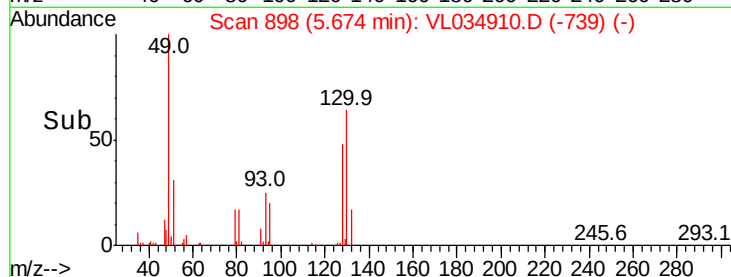
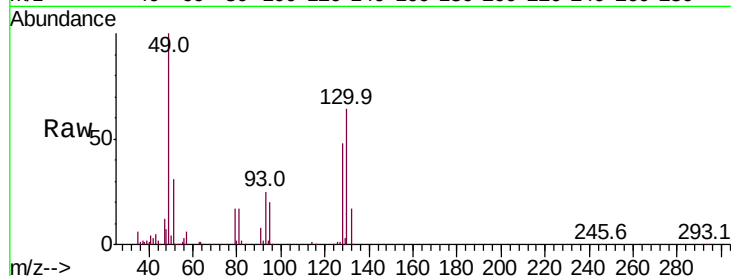




#25
Ethyl Acetate
Concen: 0.038 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL034910.D
Acq: 17 Mar 2020 3:54

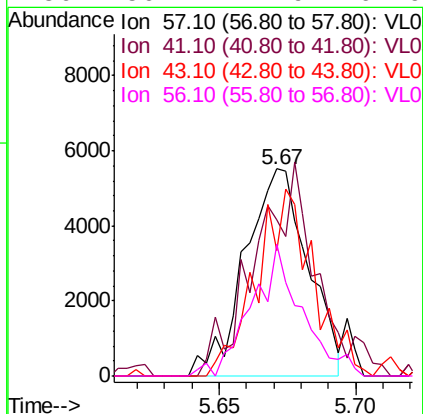
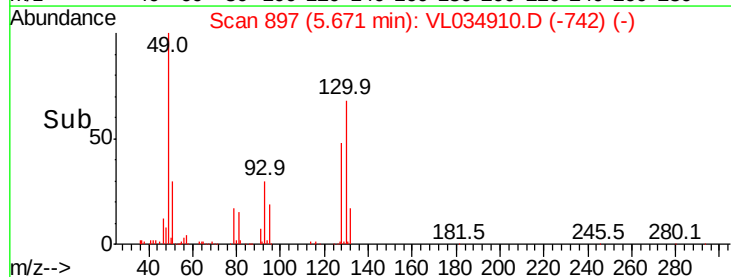
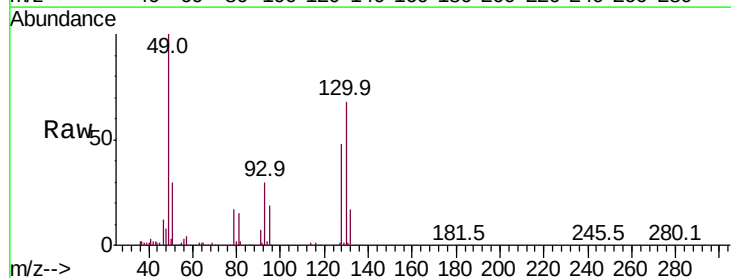
Instrument :
MSVOA_L
ClientSampleId :
FD-01DL

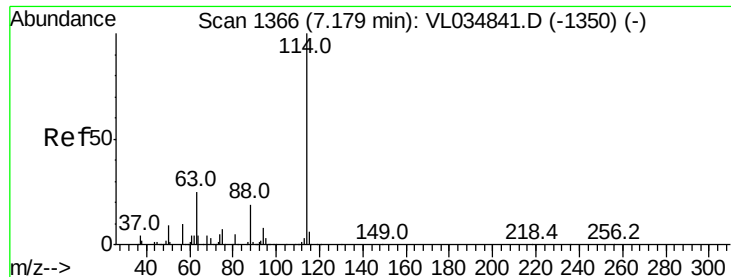
Tot Ion:	43	Resp:	7240
Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.2	12.2
61	6.1	7.8	11.6#
70	2.2	5.8	8.8#



#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





#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 :

FD-01DL

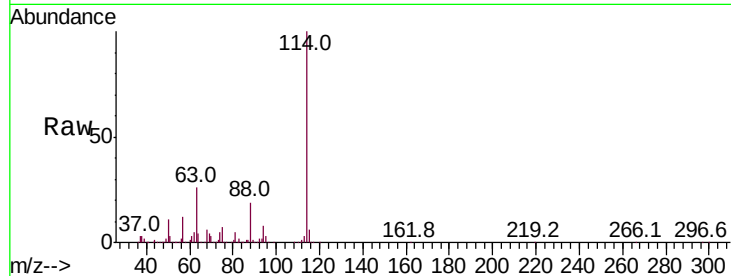
Tot Ion:114 Resp: 1822686

Ion Ratio Lower Upper

114 100

63 27.4 20.6 31.0

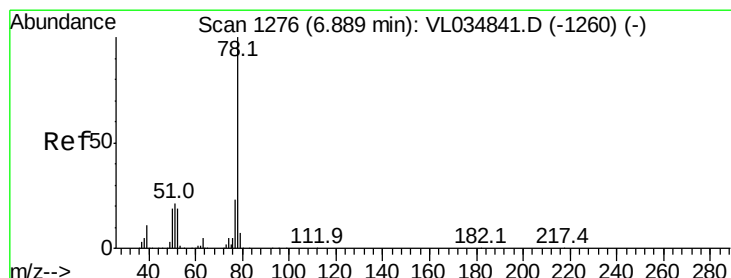
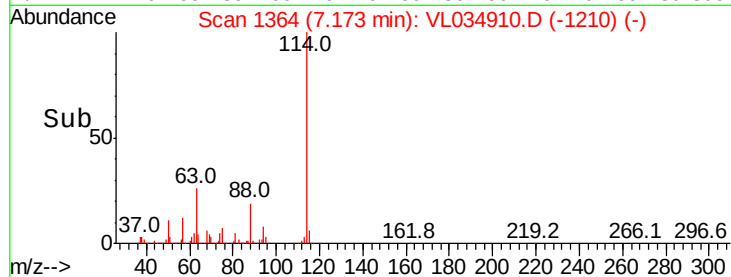
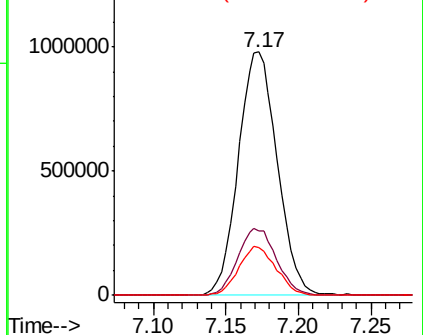
88 19.3 15.0 22.6



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#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

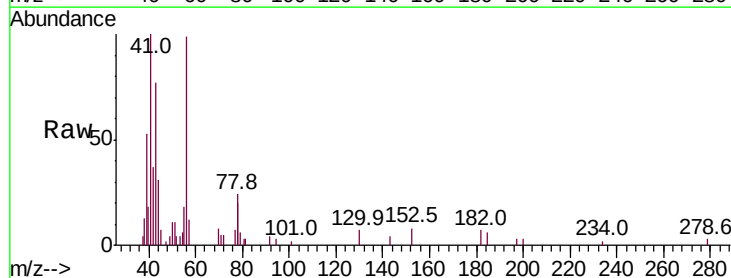
Tgt Ion: 78 Resp: 4914

Ion Ratio Lower Upper

78 100

77 71.8 18.2 27.2#

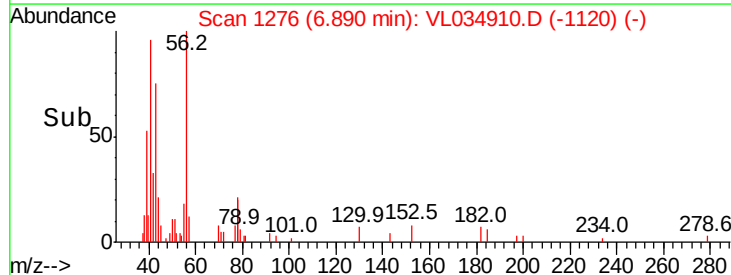
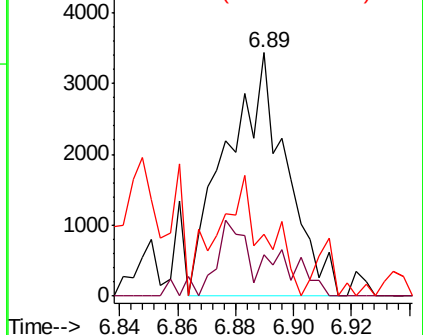
50 25.4 15.2 22.8#

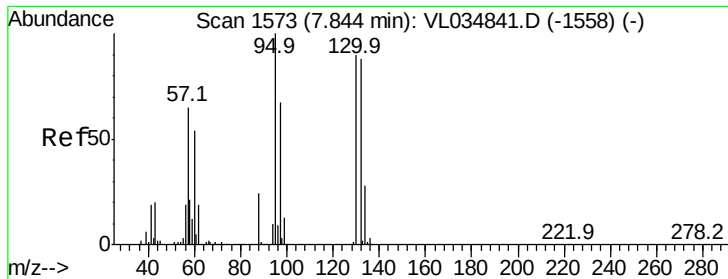


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#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 :

FD-01DL

Tot Ion:130 Resp: 35898

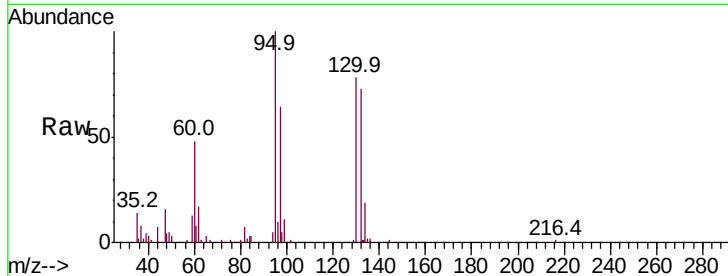
Ion Ratio Lower Upper

130 100

95 123.8 88.5 132.7

132 95.0 78.0 117.0

97 81.6 59.3 88.9

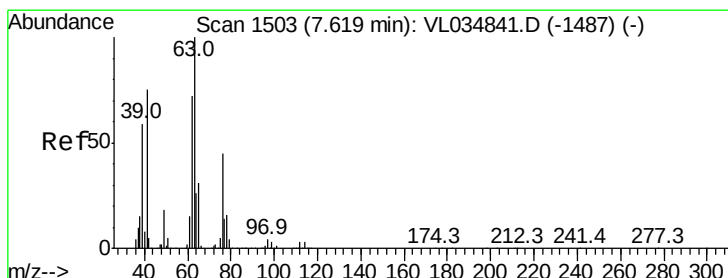
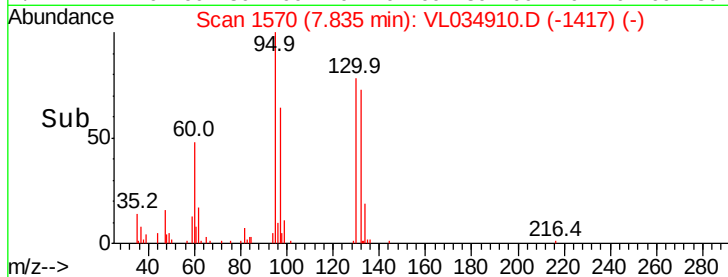
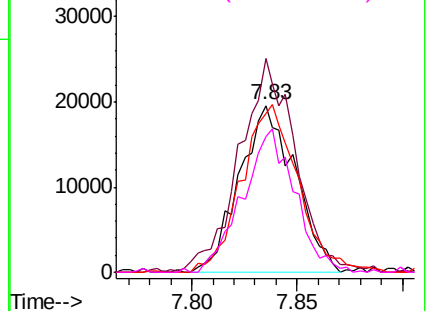


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#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

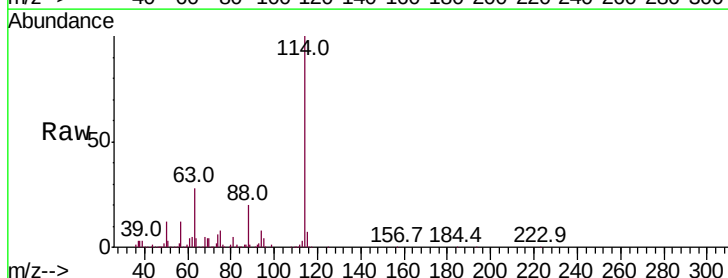
Tgt Ion: 63 Resp: 497593

Ion Ratio Lower Upper

63 100

41 0.3 59.8 89.8#

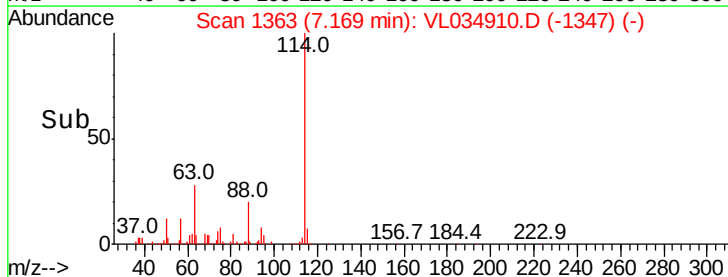
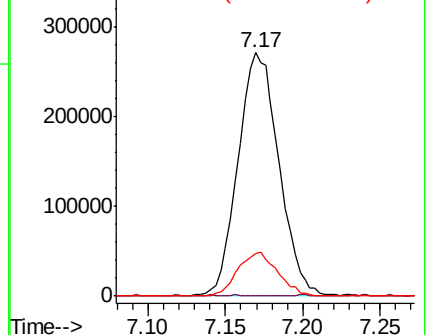
62 17.7 57.6 86.4#

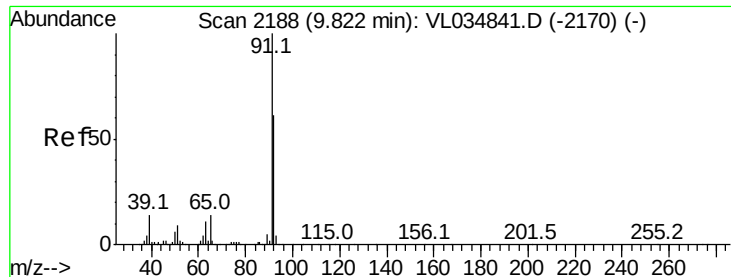


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#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

ClientSampleId :

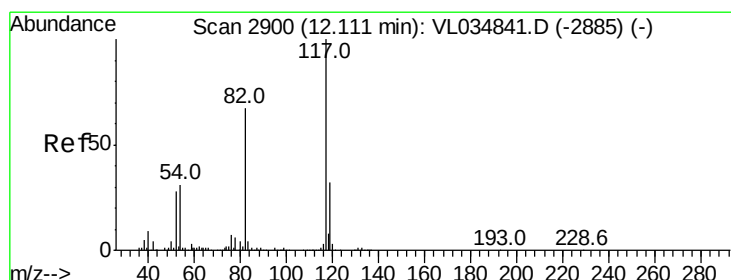
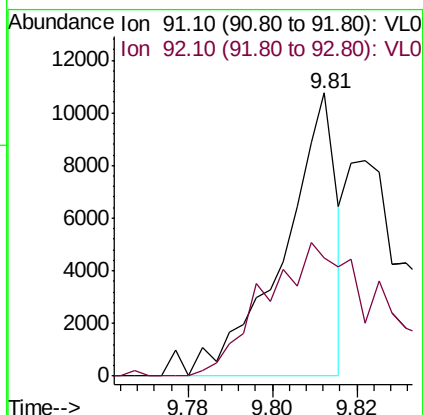
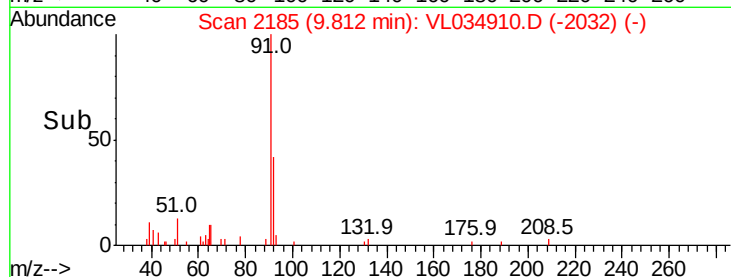
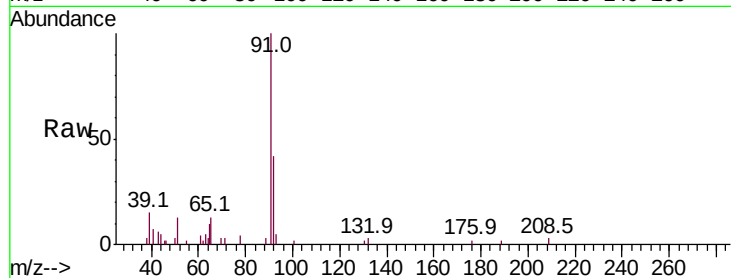
FD-01DL

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

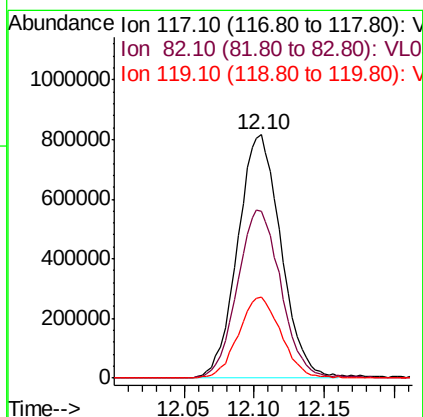
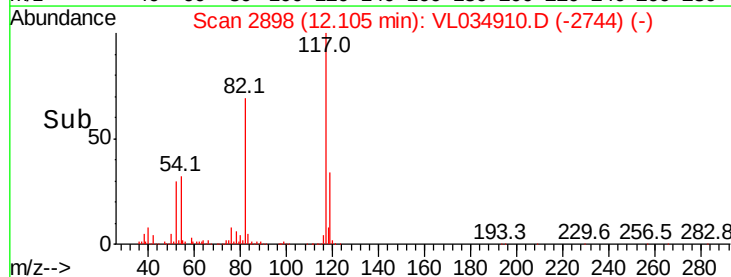
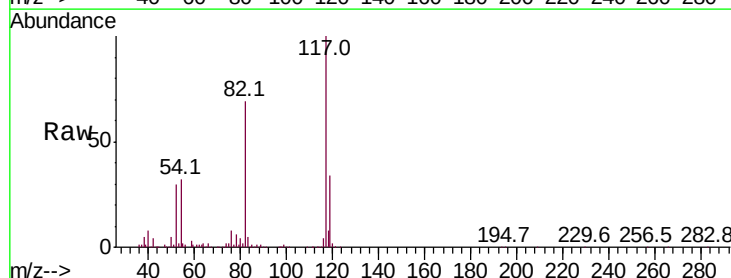
Tgt Ion: 117 Resp: 1751580

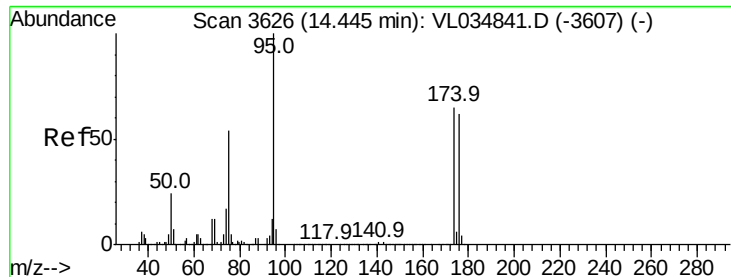
Ion Ratio Lower Upper

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 :

FD-01DL

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

