

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034907.D
 Acq On : 17 Mar 2020 1:58
 Operator : SY/AP
 Sample : L1924-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03DL

Quant Time: Mar 17 04:29:15 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

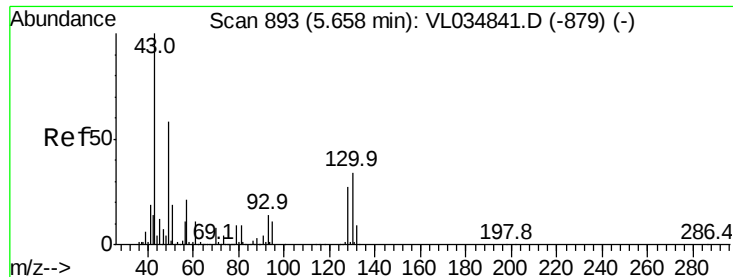
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	829406	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1810185	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1760375	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1418733	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	9308	0.082	ppbv #	73
3) Chlorodifluoromethane	2.95	51	5515	0.060	ppbv #	79
12) 1,1,2-Trichlorotrifluoroet	4.45	101	2587	0.031	ppbv #	1
13) Ethanol	3.57	45	45066	3.351	ppbv	76
15) Acetone	3.82	43	214466	1.995	ppbv	98
19) Isopropyl Alcohol	3.96	45	10468	0.154	ppbv #	37
20) Methylene Chloride	4.32	84	10651	0.313	ppbv	96
38) Trichloroethene	7.83	130	38834	0.634	ppbv	90
39) 1,2-Dichloropropane	7.17	63	489138	7.651	ppbv #	23
53) Toluene	9.81	91	12622	0.068	ppbv	91

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

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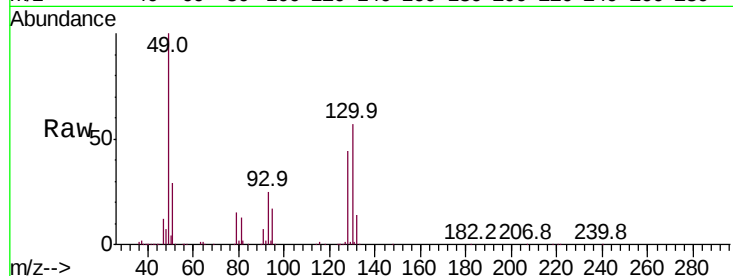
Tot Ion: 49 Resp: 829406

Ion Ratio Lower Upper

49 100

128 45.1 23.4 70.3

130 58.4 30.0 90.0



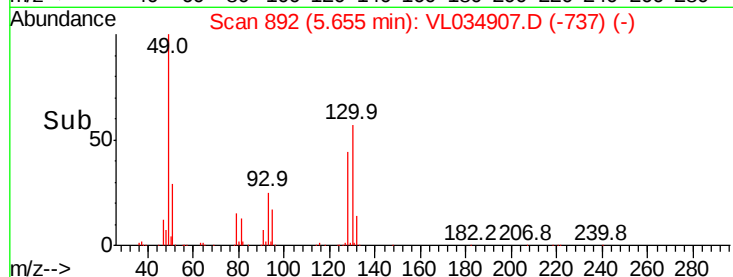
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

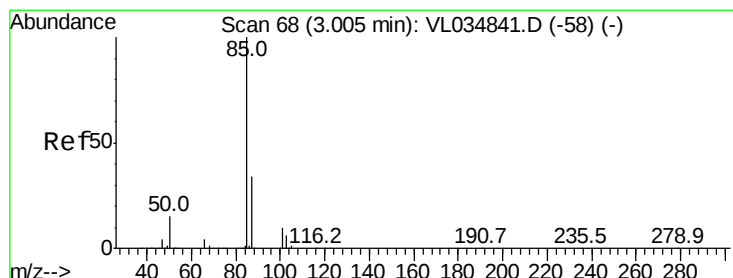
Ion 130.00 (129.70 to 130.70): V

5.65

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.082 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL034907.D

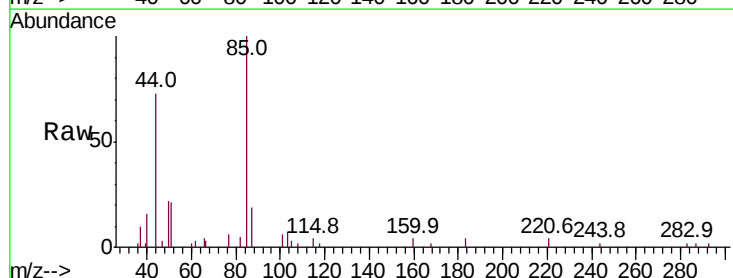
Acq: 17 Mar 2020 1:58

Tgt Ion: 85 Resp: 9308

Ion Ratio Lower Upper

85 100

87 18.0 26.9 40.3#

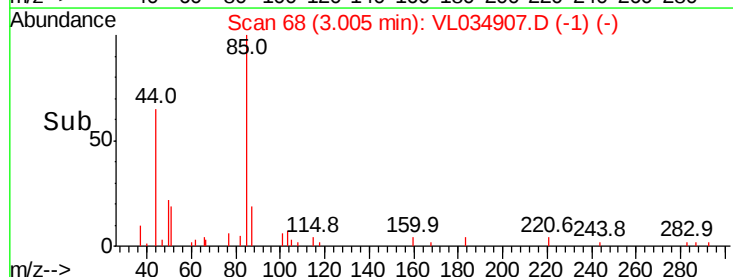


Abundance Ion 85.00 (84.70 to 85.70): VL0

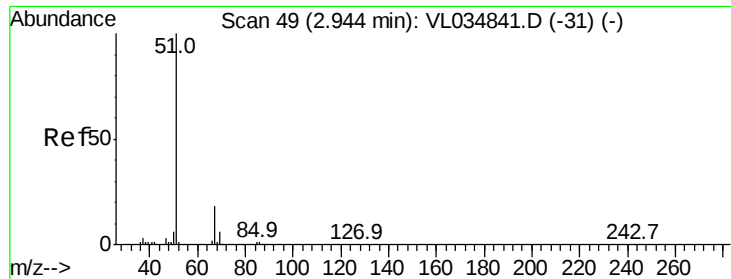
Ion 87.00 (86.70 to 87.70): VL0

3.01

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 0.060 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034907.D

Acq: 17 Mar 2020 1:58

Instrument :

MSVOA_L

ClientSampleId :

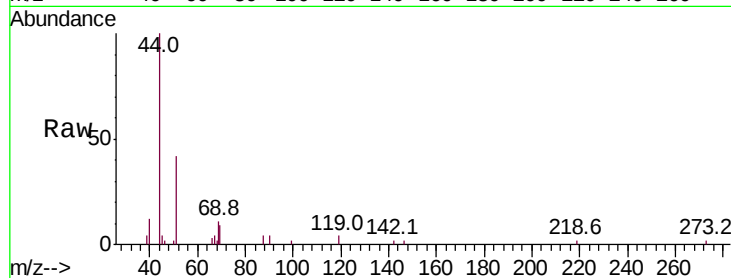
SV-03DL

Tot Ion: 51 Resp: 5515

Ion Ratio Lower Upper

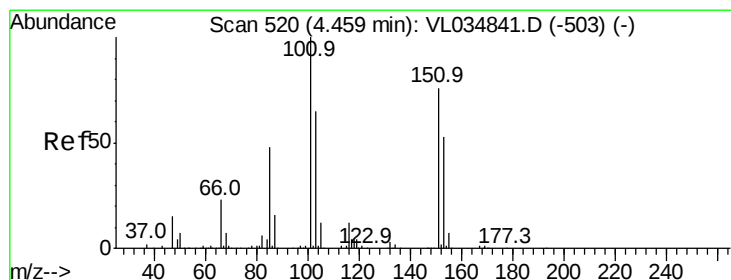
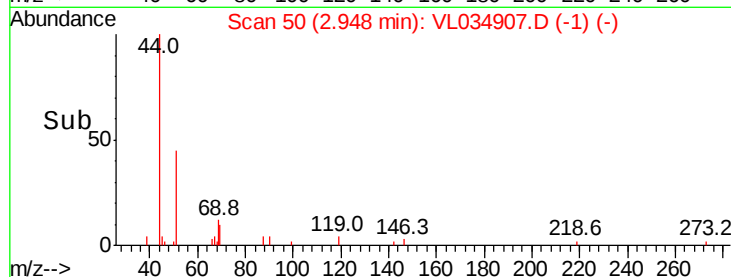
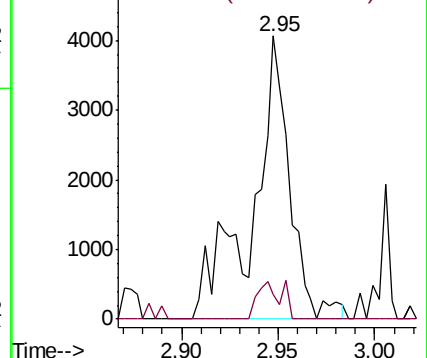
51 100

67 8.5 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.45 min Scan# 518

Delta R.T. -0.01 min

Lab File: VL034907.D

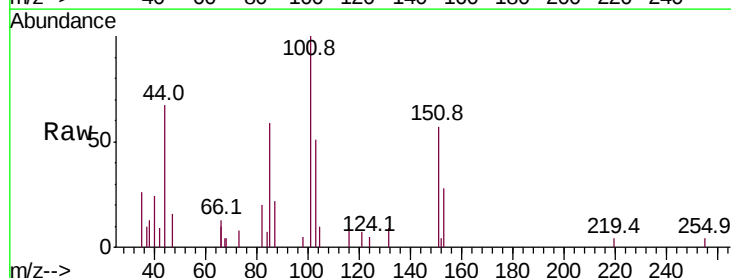
Acq: 17 Mar 2020 1:58

Tgt Ion: 101 Resp: 2587

Ion Ratio Lower Upper

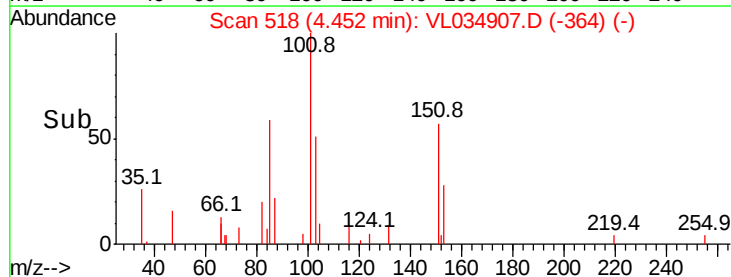
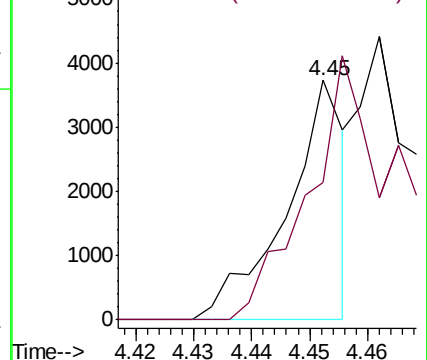
101 100

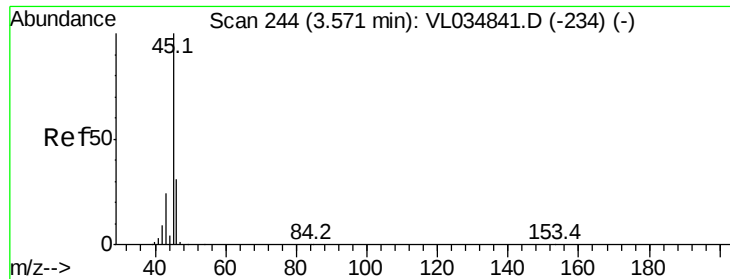
151 172.7 60.8 91.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 3.351 ppbv

RT: 3.57 min Scan# 245

Delta R.T. 0.00 min

Lab File: VL034907.D

Acq: 17 Mar 2020 1:58

Instrument :

MSVOA_L

ClientSampleId :

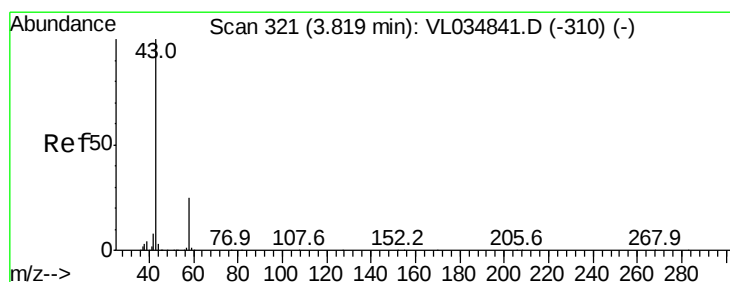
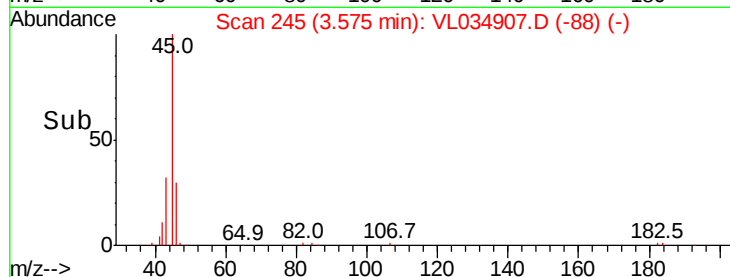
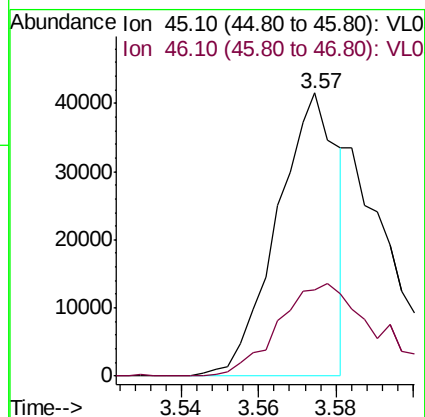
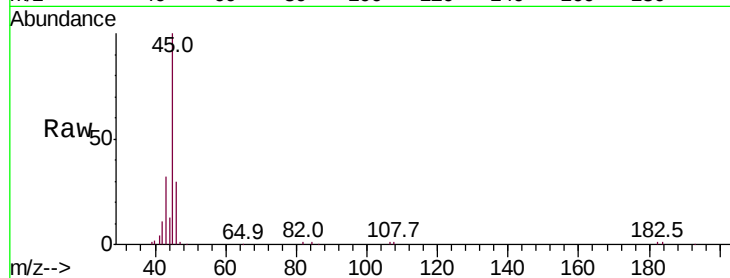
SV-03DL

Tot Ion: 45 Resp: 45066

Ion Ratio Lower Upper

45 100

46 54.6 16.0 64.0



#15

Acetone

Concen: 1.995 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034907.D

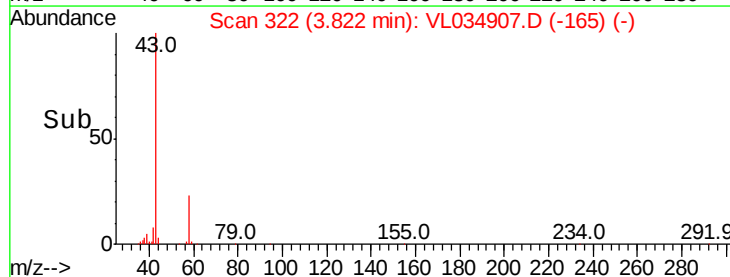
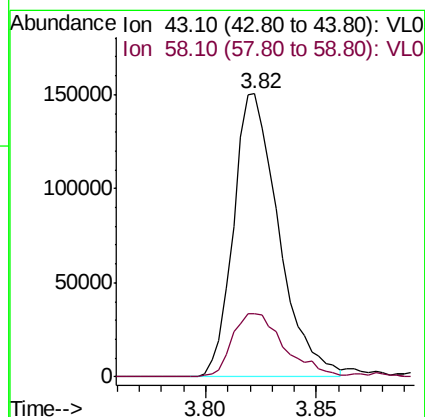
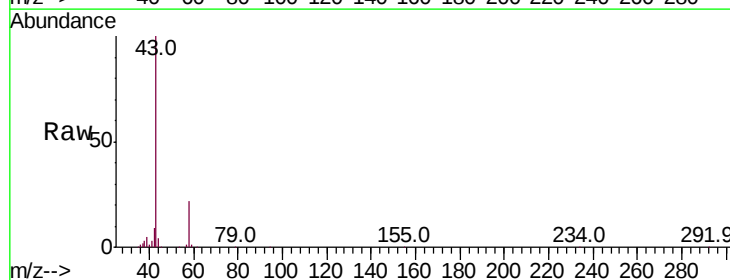
Acq: 17 Mar 2020 1:58

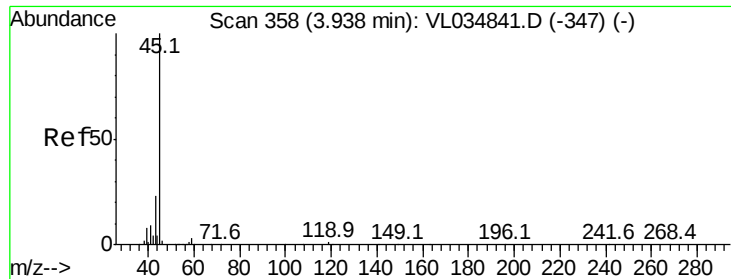
Tgt Ion: 43 Resp: 214466

Ion Ratio Lower Upper

43 100

58 27.1 21.0 31.6





#19

Isopropyl Alcohol

Concen: 0.154 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034907.D

Acq: 17 Mar 2020 1:58

Instrument :

MSVOA_L

ClientSampleId :

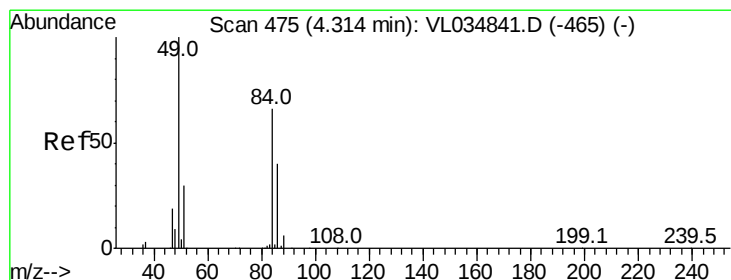
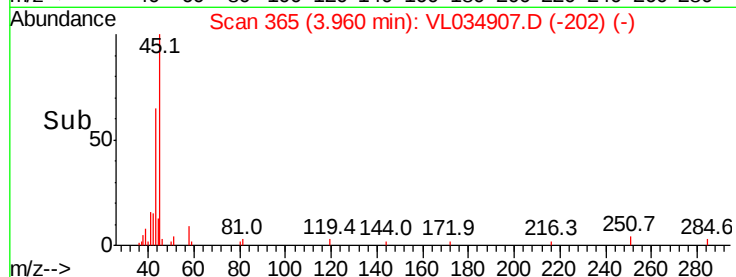
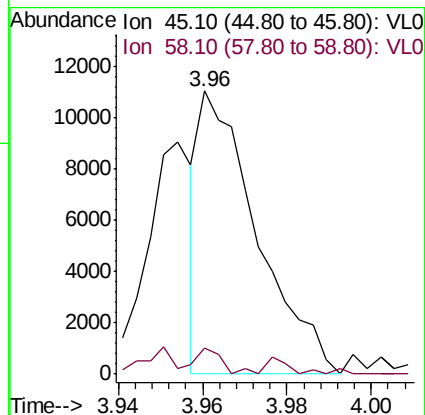
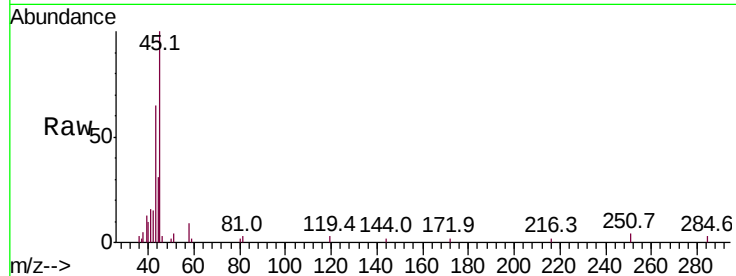
SV-03DL

Tot Ion: 45 Resp: 10468

Ion Ratio Lower Upper

45 100

58 0.0 30.5 45.7#



#20

Methylene Chloride

Concen: 0.313 ppbv

RT: 4.32 min Scan# 477

Delta R.T. 0.01 min

Lab File: VL034907.D

Acq: 17 Mar 2020 1:58

Tgt Ion: 84 Resp: 10651

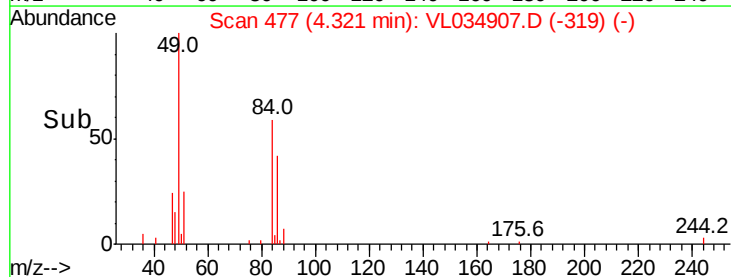
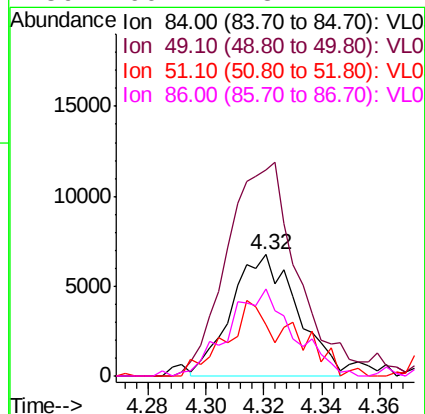
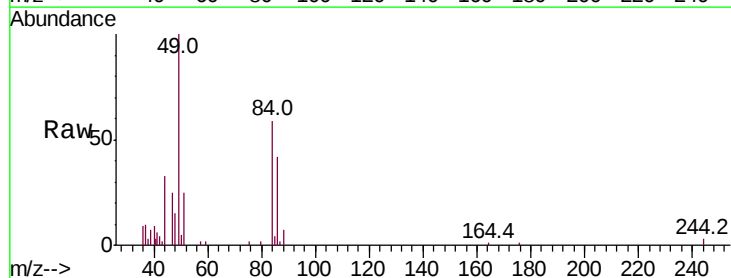
Ion Ratio Lower Upper

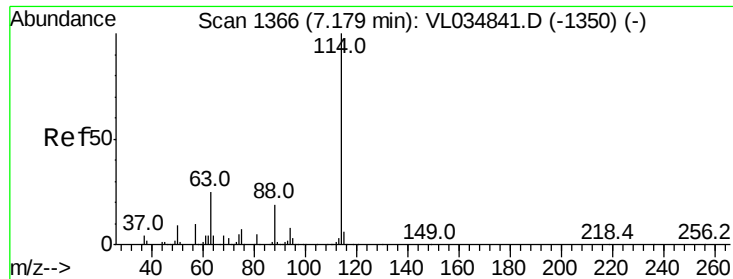
84 100

49 153.7 121.5 182.3

51 41.1 36.6 55.0

86 66.2 48.2 72.2

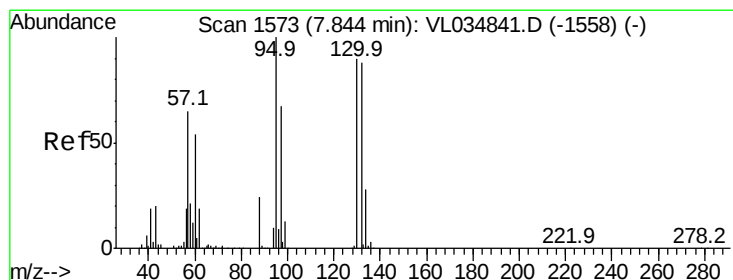
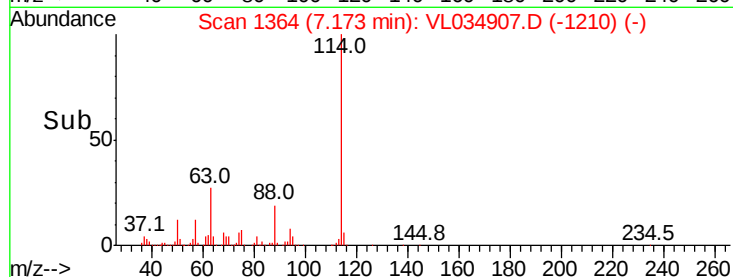
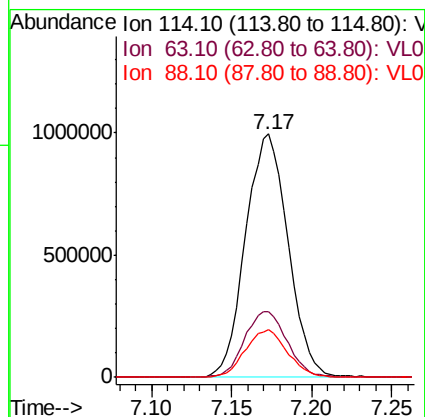
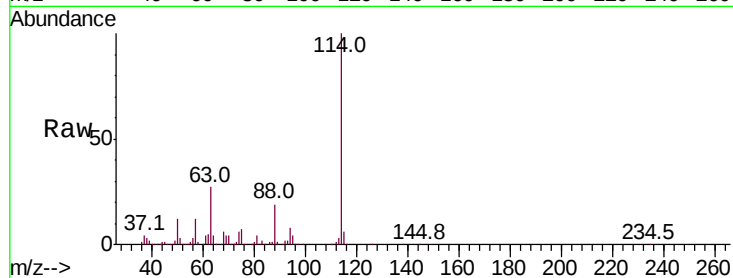




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL034907.D
 Acq: 17 Mar 2020 1:58

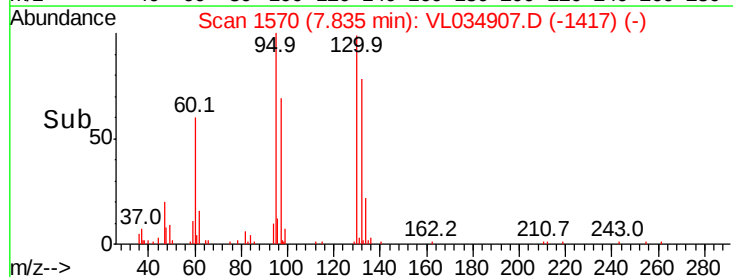
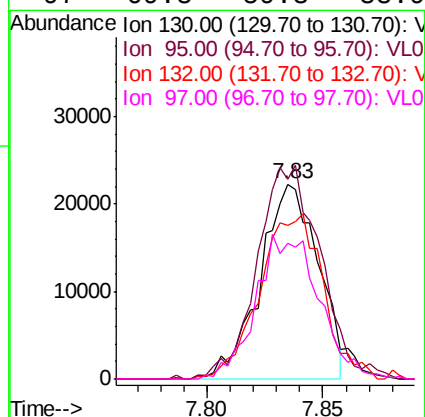
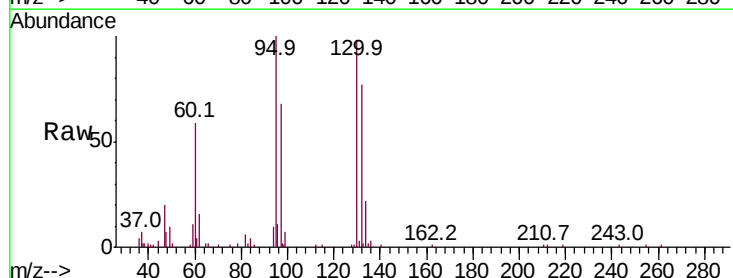
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03DL

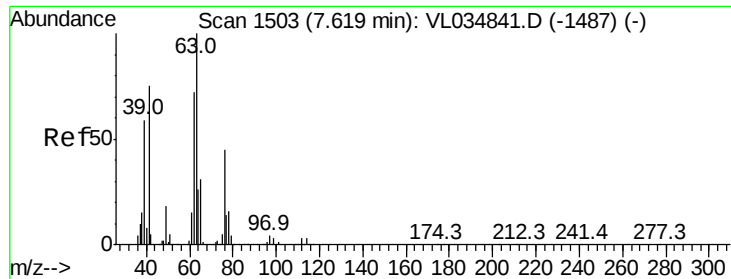
Tot Ion:114 Resp: 1810185
 Ion Ratio Lower Upper
 114 100
 63 27.2 20.6 31.0
 88 19.3 15.0 22.6



#38
 Trichloroethene
 Concen: 0.634 ppbv
 RT: 7.83 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: VL034907.D
 Acq: 17 Mar 2020 1:58

Tgt Ion:130 Resp: 38834
 Ion Ratio Lower Upper
 130 100
 95 102.3 88.5 132.7
 132 80.3 78.0 117.0
 97 69.8 59.3 88.9

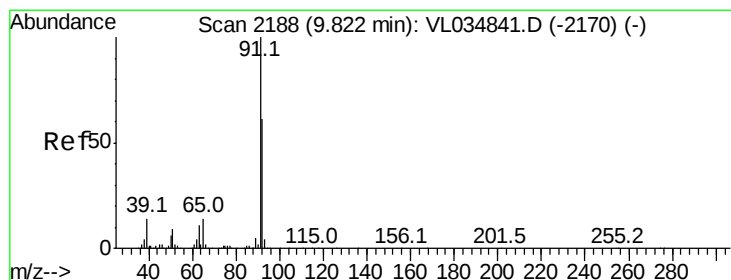
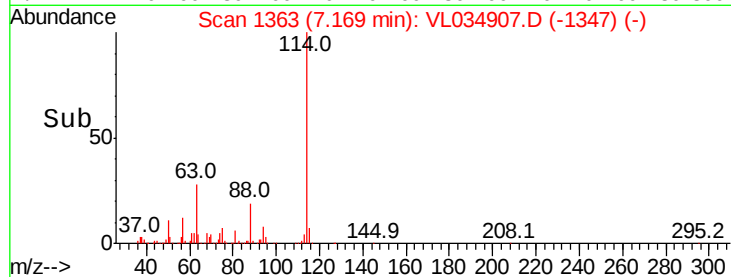
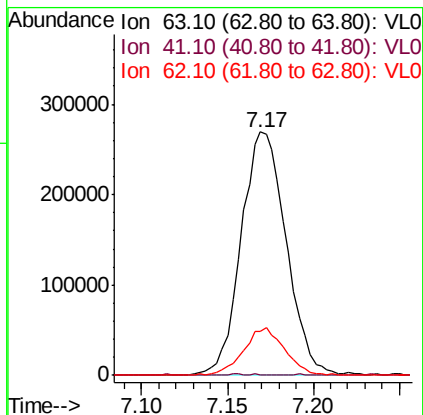
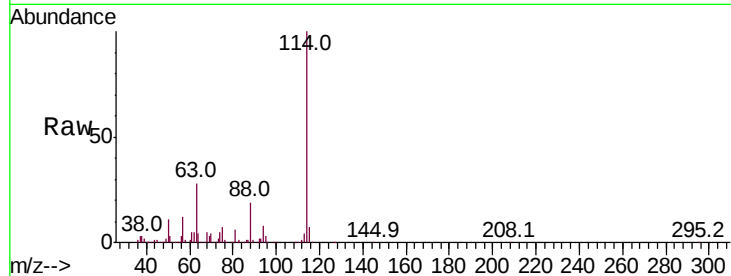




#39
 1,2-Dichloropropane
 Concen: 7.651 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL034907.D
 Acq: 17 Mar 2020 1:58

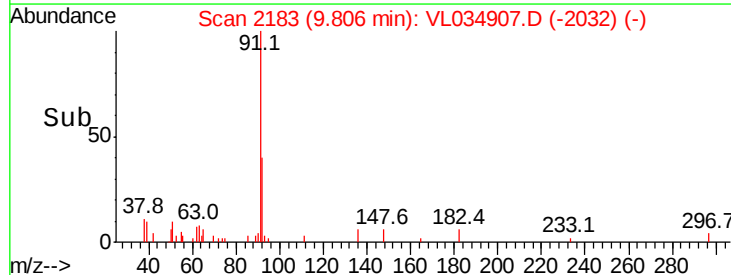
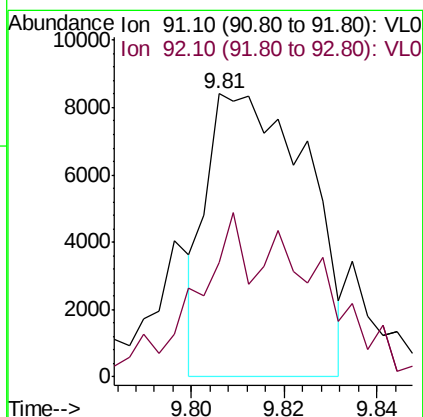
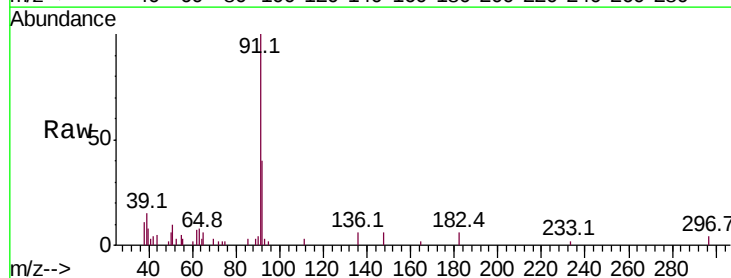
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-03DL

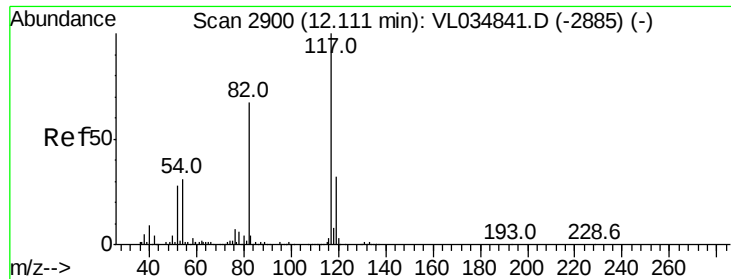
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	59.8	89.8#
62	17.8	57.6	86.4#



#53
 Toluene
 Concen: 0.068 ppbv
 RT: 9.81 min Scan# 2183
 Delta R.T. -0.02 min
 Lab File: VL034907.D
 Acq: 17 Mar 2020 1:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	67.7	48.6	72.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL034907.D

Acq: 17 Mar 2020 1:58

Instrument :

MSVOA_L

ClientSampleId :

SV-03DL

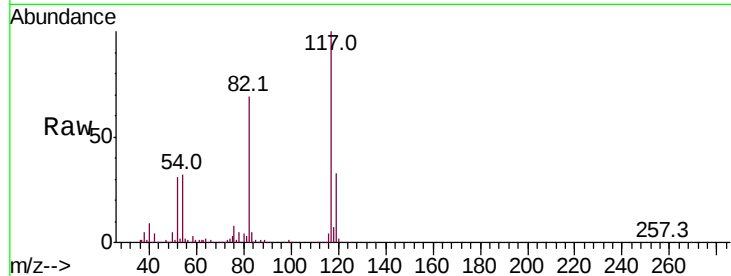
Tot Ion:117 Resp: 1760375

Ion Ratio Lower Upper

117 100

82 69.9 51.1 76.7

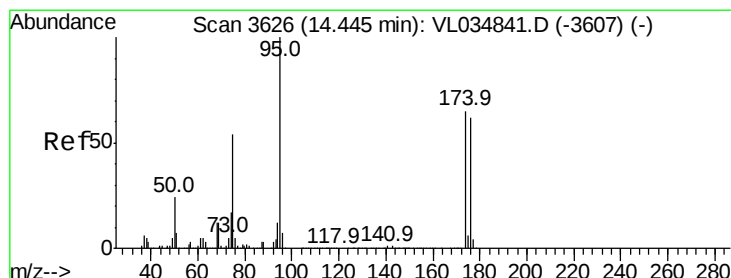
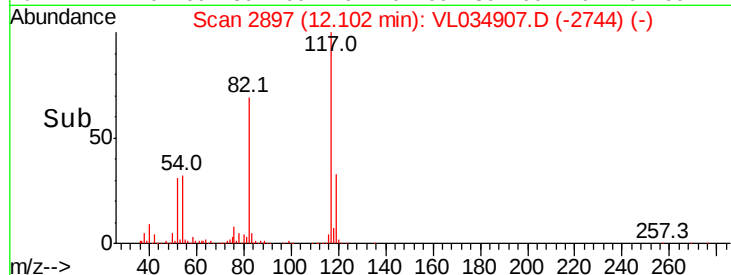
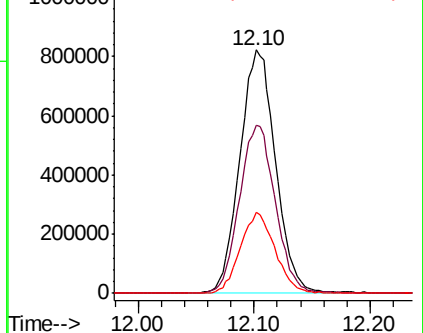
119 32.4 27.3 40.9



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.334 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL034907.D

Acq: 17 Mar 2020 1:58

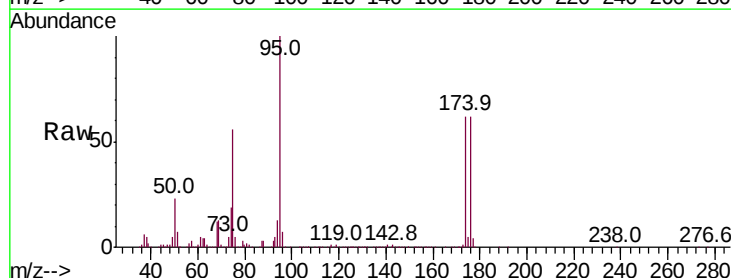
Tgt Ion: 95 Resp: 1418733

Ion Ratio Lower Upper

95 100

174 64.4 55.2 82.8

175 4.8 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

