

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034897.D
 Acq On : 16 Mar 2020 19:24
 Operator : SY/AP
 Sample : L1924-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 17 04:27:35 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	870641	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1863060	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1873392	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1490683	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

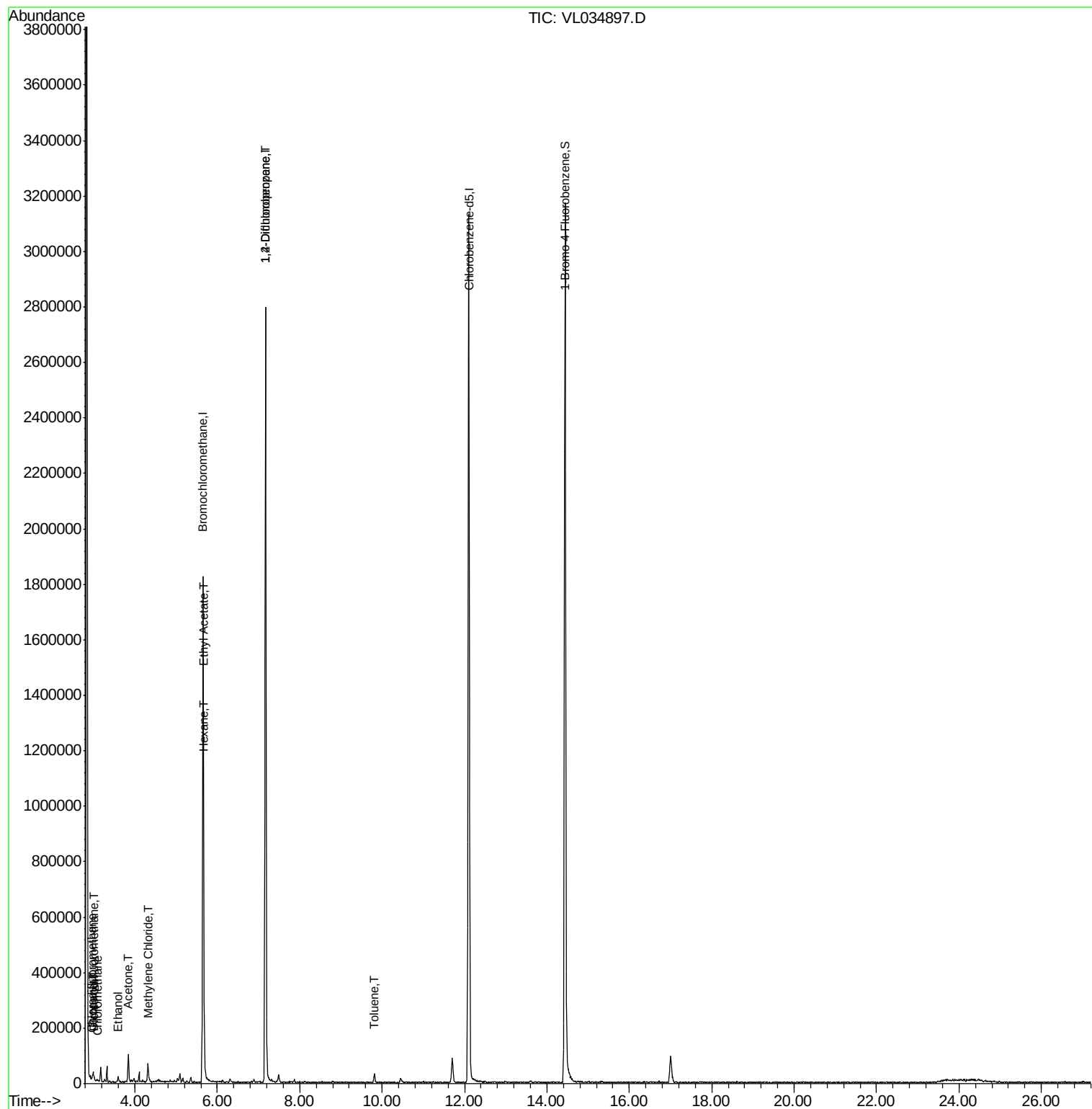
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	9948	0.083	ppbv	89
3) Chlorodifluoromethane	2.95	51	5846	0.060	ppbv #	86
4) Chloromethane	3.10	50	1709	0.031	ppbv #	73
9) Propene	2.98	41	6927	0.149	ppbv	98
13) Ethanol	3.58	45	7355	0.521	ppbv #	18
15) Acetone	3.84	43	62978	0.558	ppbv	100
20) Methylene Chloride	4.31	84	10836	0.304	ppbv #	92
25) Ethyl Acetate	5.67	43	8791	0.044	ppbv #	81
26) Hexane	5.67	57	12441	0.144	ppbv #	44
39) 1,2-Dichloropropane	7.17	63	519826	7.901	ppbv #	22
53) Toluene	9.81	91	6286	0.033	ppbv #	1

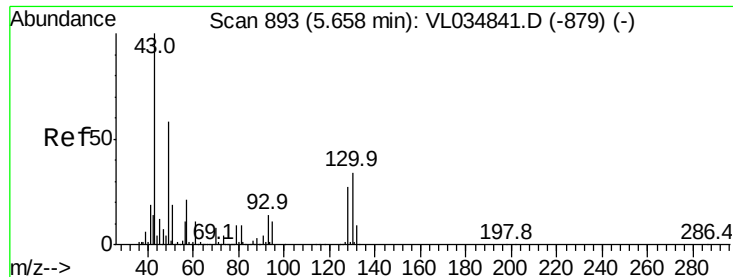
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
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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: VL034897.D

Acq: 16 Mar 2020 19:24

Instrument :
MSVOA_L
ClientSampled :

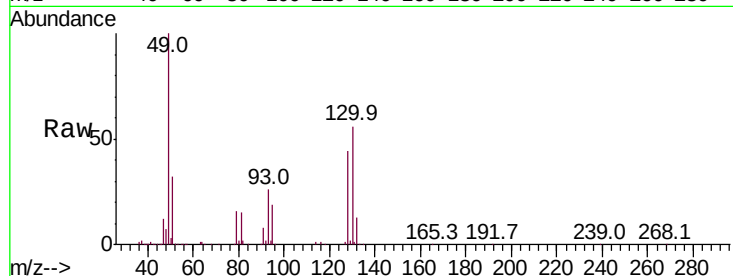
Tot Ion: 49 Resp: 870641

Ion Ratio Lower Upper

49 100

128 46.2 23.4 70.3

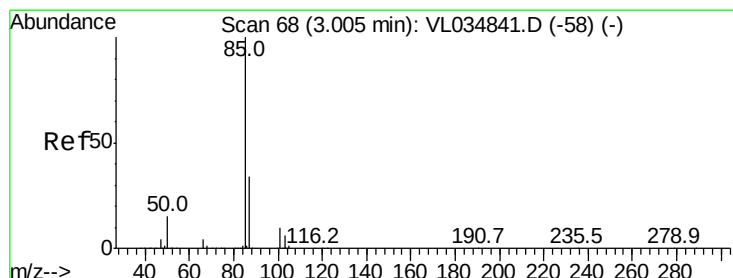
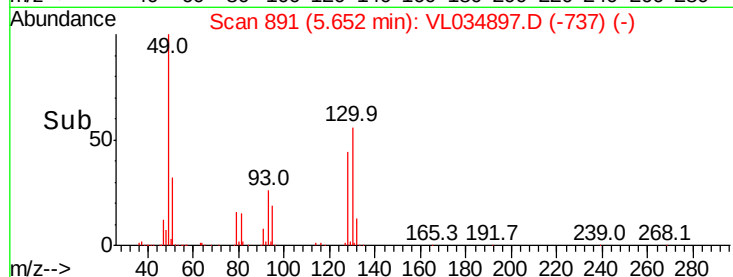
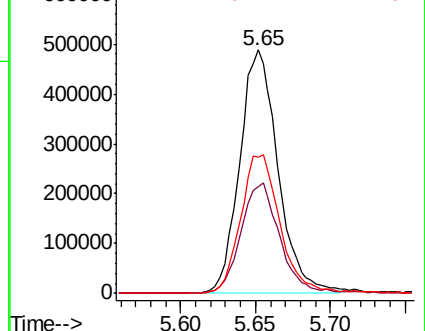
130 59.2 30.0 90.0



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: 0.083 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL034897.D

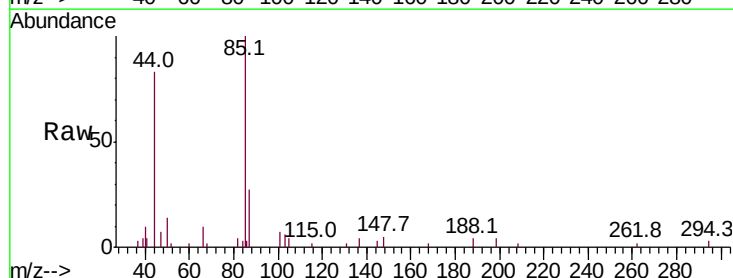
Acq: 16 Mar 2020 19:24

Tgt Ion: 85 Resp: 9948

Ion Ratio Lower Upper

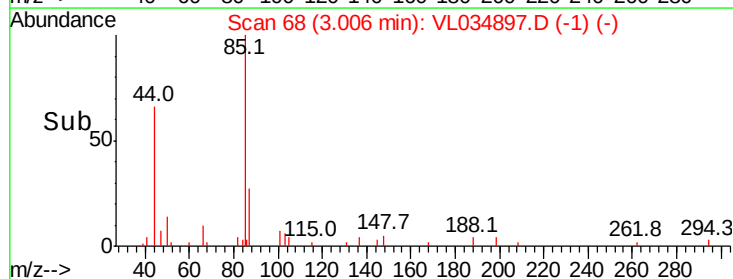
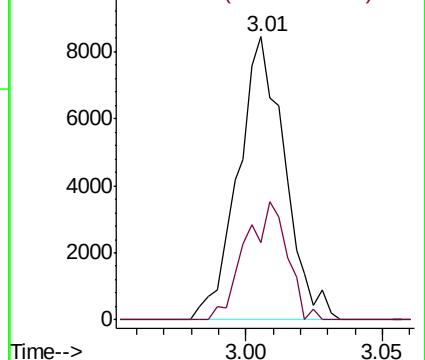
85 100

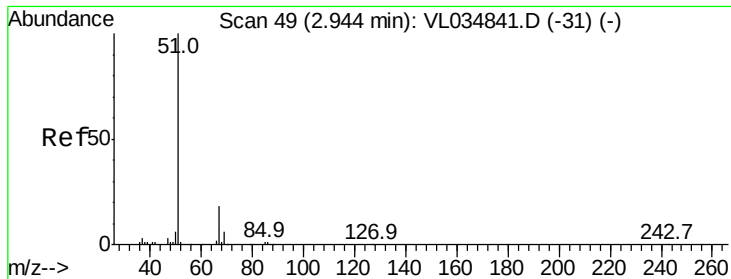
87 27.1 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.060 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.01 min

Lab File: VL034897.D

Acq: 16 Mar 2020 19:24

Instrument :

MSVOA_L

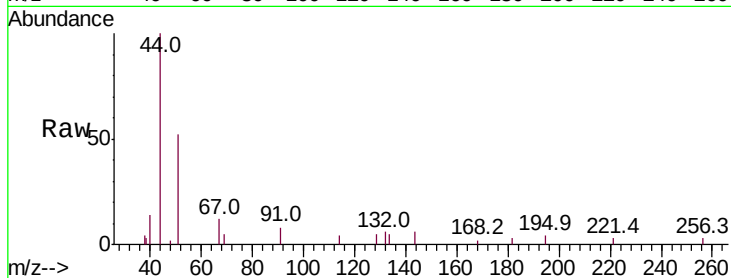
ClientSampleId :

Tot Ion: 51 Resp: 5846

Ion Ratio Lower Upper

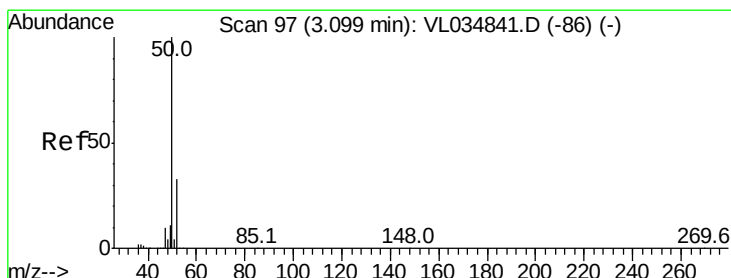
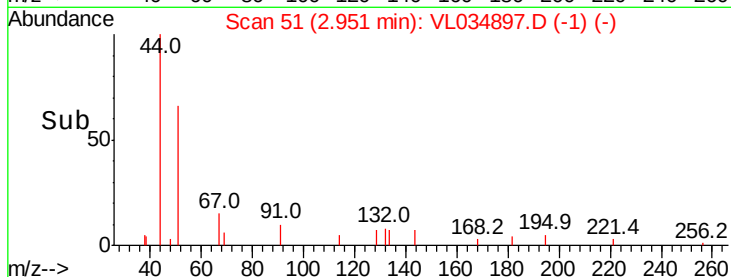
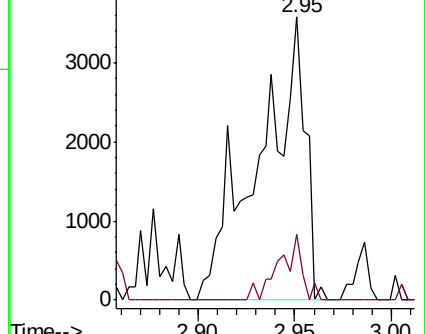
51 100

67 11.6 14.3 21.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.031 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034897.D

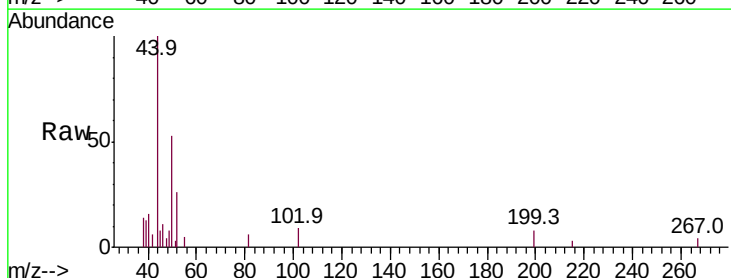
Acq: 16 Mar 2020 19:24

Tgt Ion: 50 Resp: 1709

Ion Ratio Lower Upper

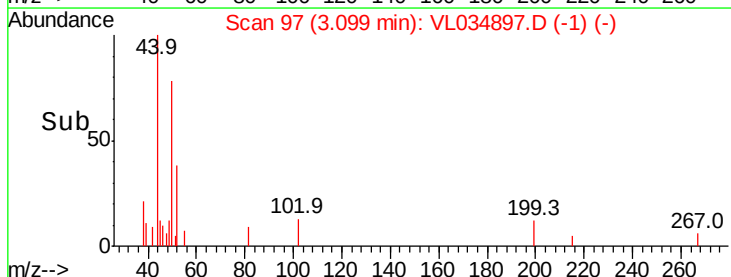
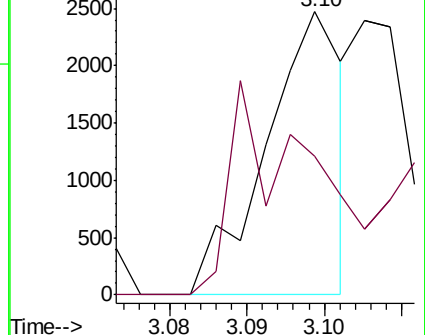
50 100

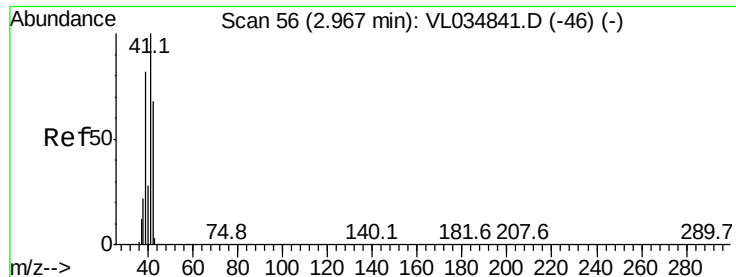
52 48.9 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.149 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.02 min

Lab File: VL034897.D

Acq: 16 Mar 2020 19:24

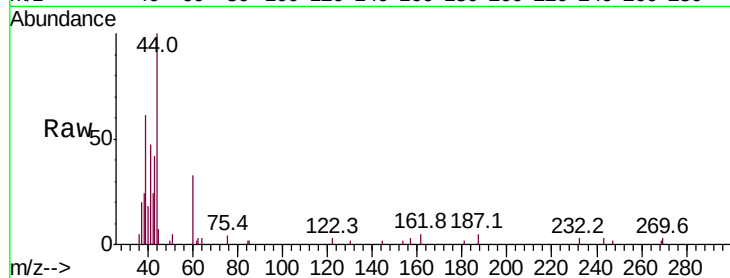
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 6927

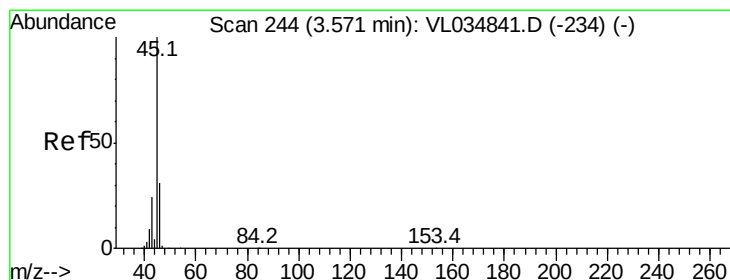
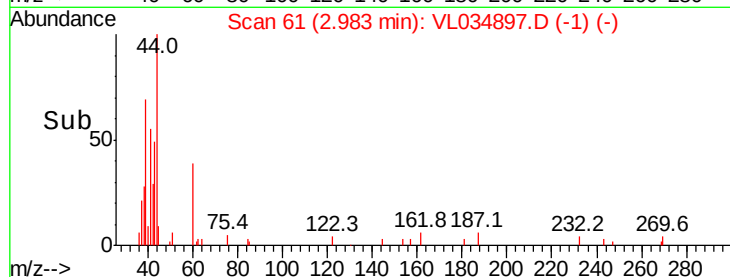
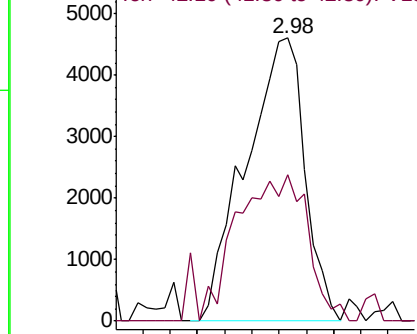
Ion Ratio Lower Upper

41 100

42 67.2 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 0.521 ppbv

RT: 3.58 min Scan# 248

Delta R.T. 0.01 min

Lab File: VL034897.D

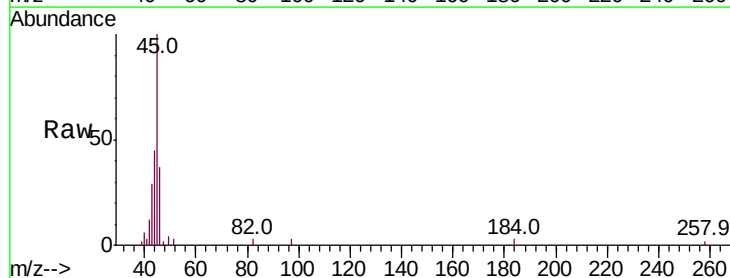
Acq: 16 Mar 2020 19:24

Tgt Ion: 45 Resp: 7355

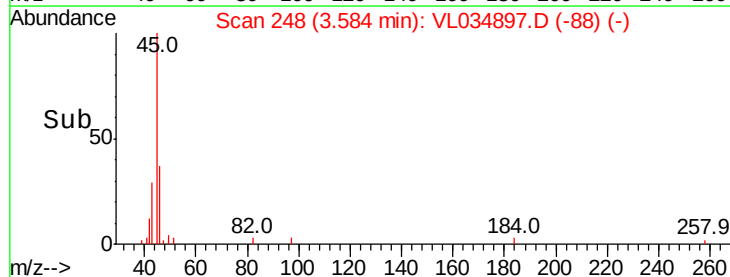
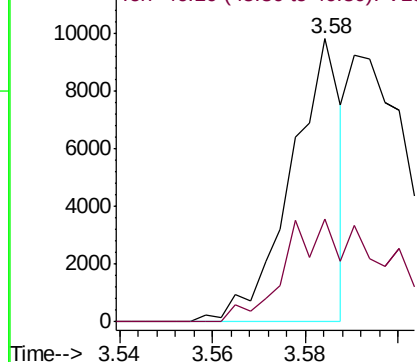
Ion Ratio Lower Upper

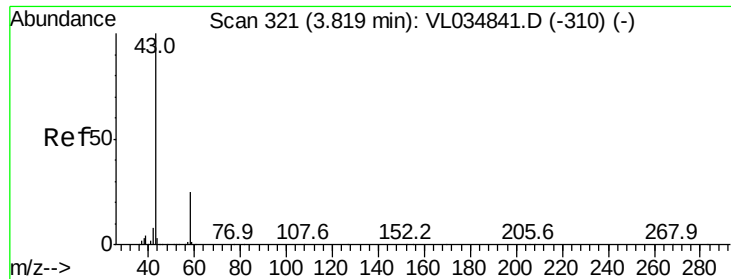
45 100

46 90.9 16.0 64.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0
Ion 46.10 (45.80 to 46.80): VL0

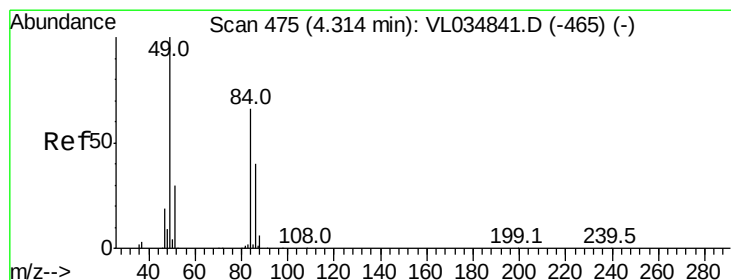
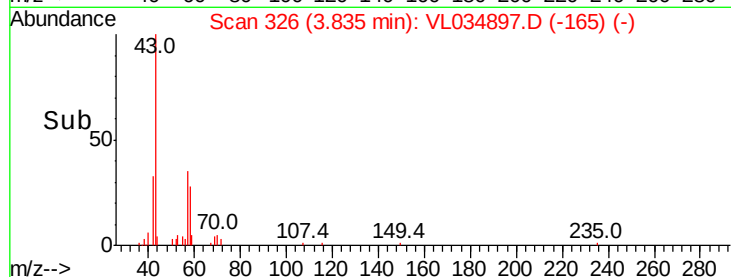
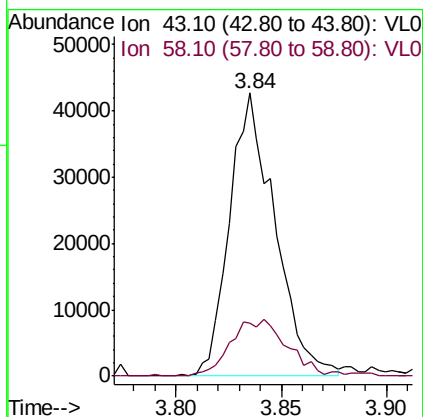
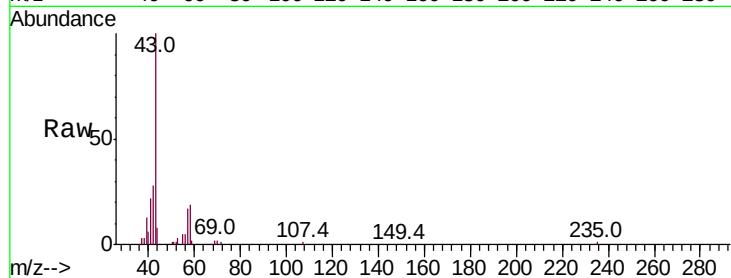




#15
Acetone
Concen: 0.558 ppbv
RT: 3.84 min Scan# 326
Delta R.T. 0.02 min
Lab File: VL034897.D
Acq: 16 Mar 2020 19:24

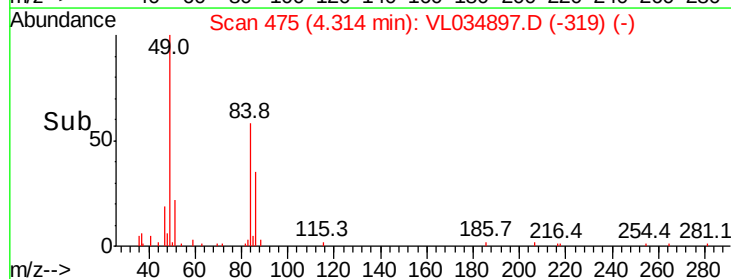
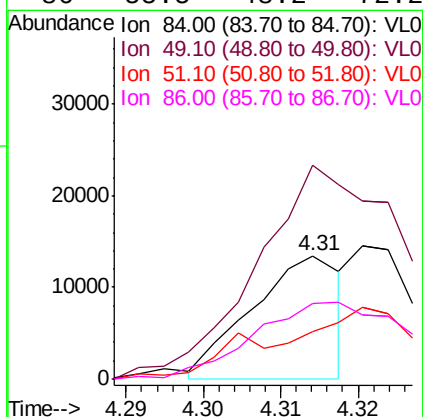
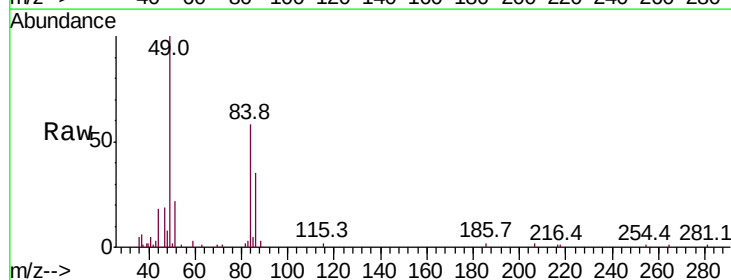
Instrument :
MSVOA_L
ClientSampled :

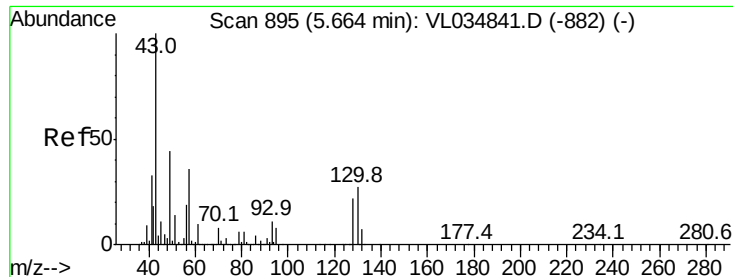
Tot Ion: 43 Resp: 62978
Ion Ratio Lower Upper
43 100
58 26.2 21.0 31.6



#20
Methylene Chloride
Concen: 0.304 ppbv
RT: 4.31 min Scan# 475
Delta R.T. 0.00 min
Lab File: VL034897.D
Acq: 16 Mar 2020 19:24

Tgt Ion: 84 Resp: 10836
Ion Ratio Lower Upper
84 100
49 160.8 121.5 182.3
51 35.1 36.6 55.0#
86 55.5 48.2 72.2

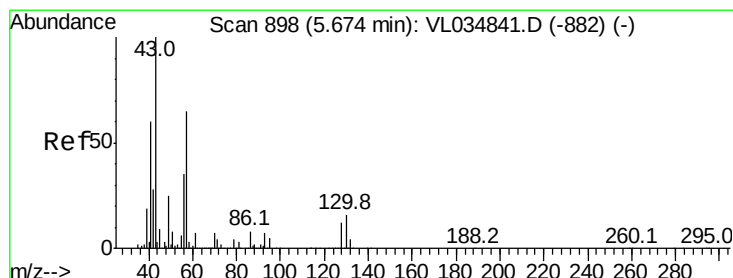
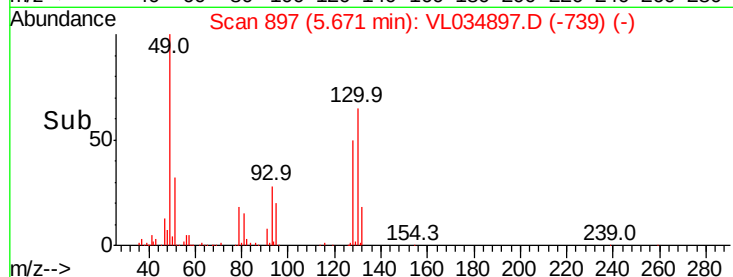
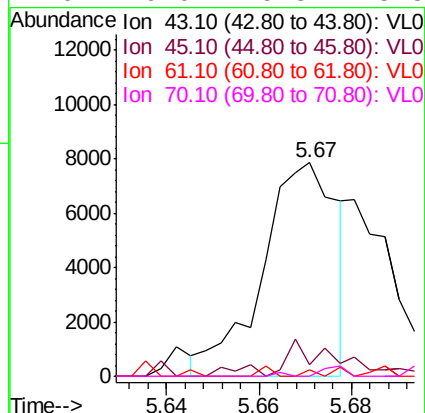
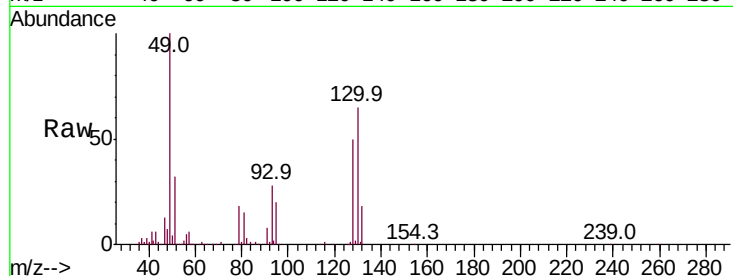




#25
Ethyl Acetate
Concen: 0.044 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL034897.D
Acq: 16 Mar 2020 19:24

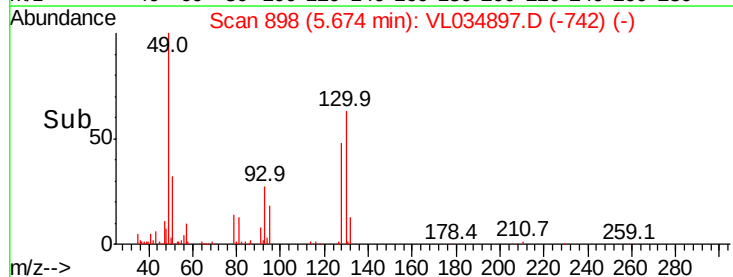
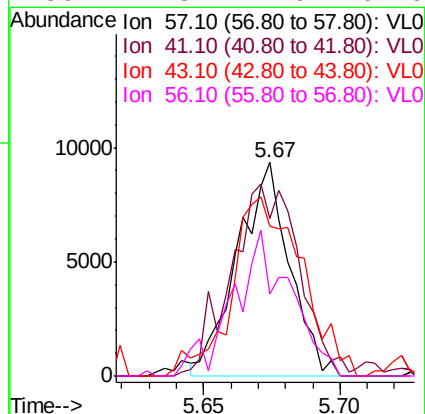
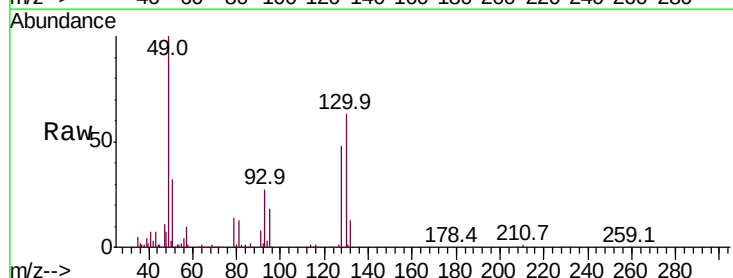
Instrument :
MSVOA_L
ClientSampleId :

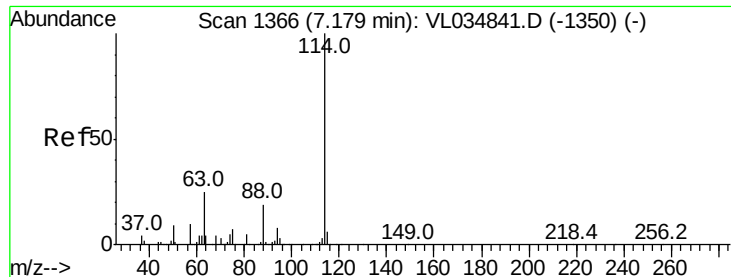
Tot Ion:	43	Resp:	8791
Ion	Ratio	Lower	Upper
43	100		
45	16.7	8.2	12.2#
61	2.6	7.8	11.6#
70	0.0	5.8	8.8#



#26
Hexane
Concen: 0.144 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034897.D
Acq: 16 Mar 2020 19:24

Tgt Ion:	57	Resp:	12441
Ion	Ratio	Lower	Upper
57	100		
41	120.5	72.6	109.0#
43	113.0	183.8	275.6#
56	74.8	41.9	62.9#



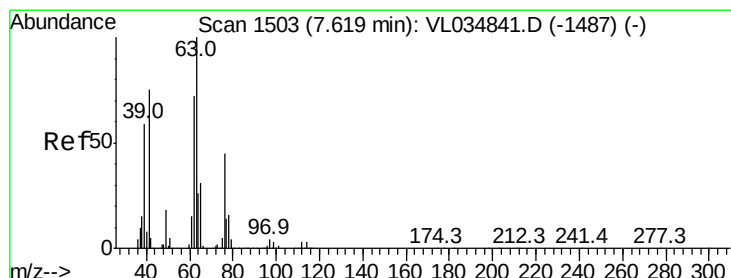
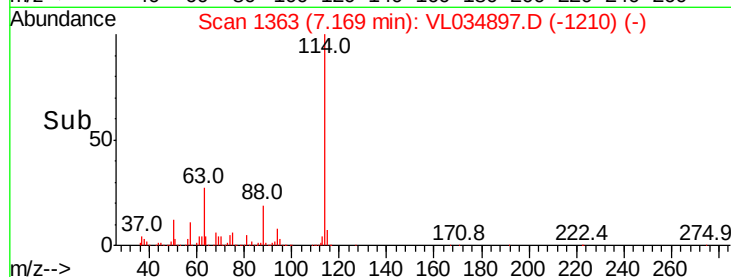
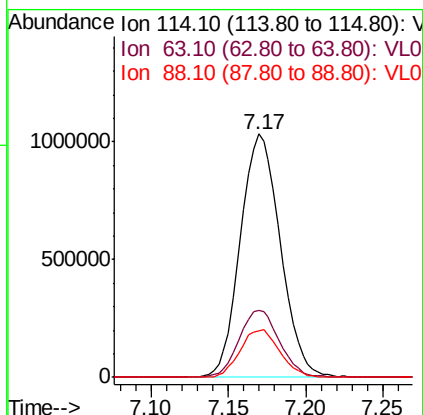
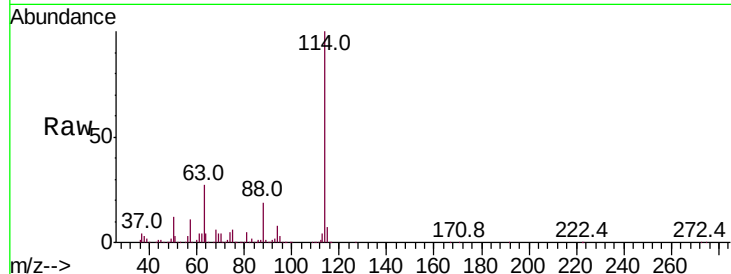


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.01 min
 Lab File: VL034897.D
 Acq: 16 Mar 2020 19:24

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 1863060

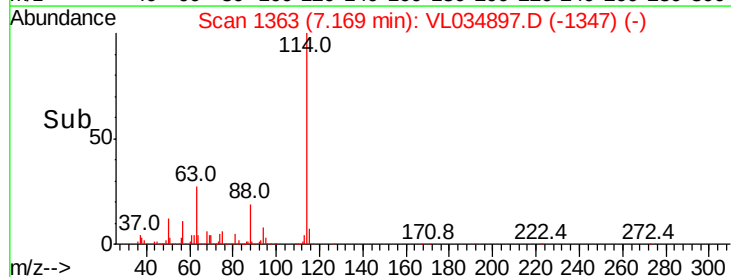
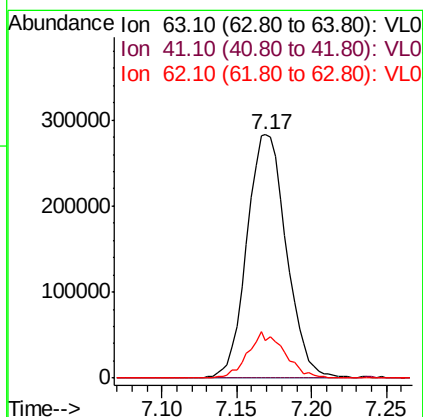
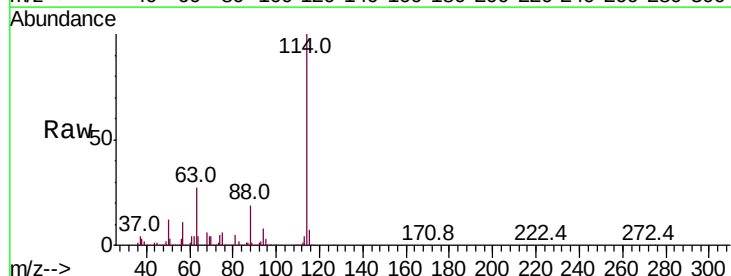
Ion	Ratio	Lower	Upper
114	100		
63	28.1	20.6	31.0
88	19.6	15.0	22.6

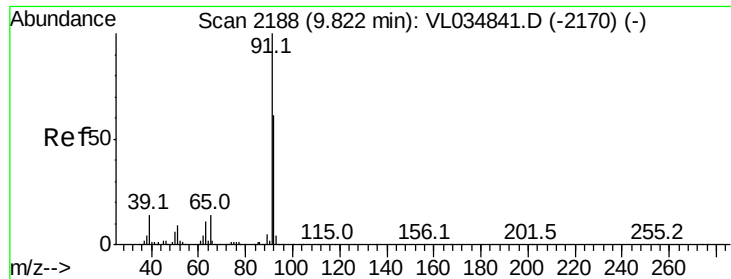


#39
 1,2-Dichloropropane
 Concen: 7.901 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL034897.D
 Acq: 16 Mar 2020 19:24

Tgt Ion: 63 Resp: 519826

Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.8	89.8#
62	15.7	57.6	86.4#





#53

Toluene

Concen: 0.033 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL034897.D

Acq: 16 Mar 2020 19:24

Instrument :

MSVOA_L

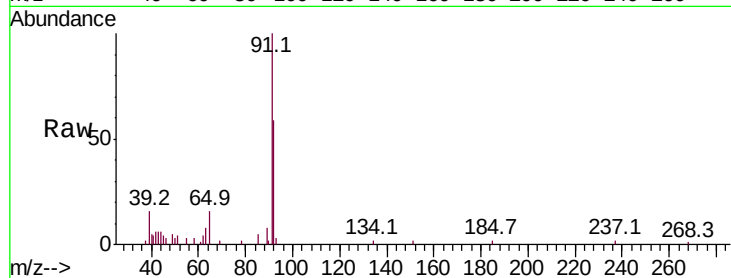
ClientSampled :

Tot Ion: 91 Resp: 6286

Ion Ratio Lower Upper

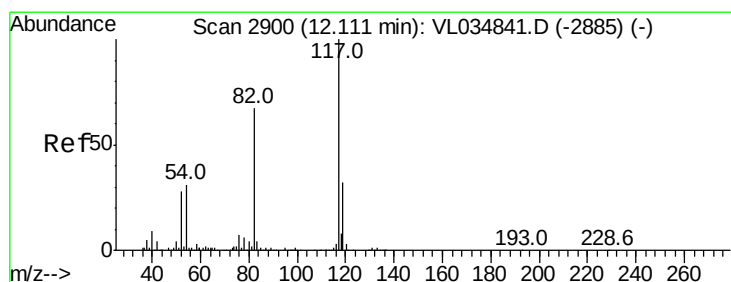
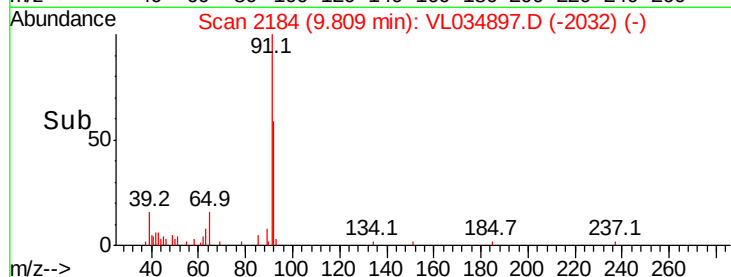
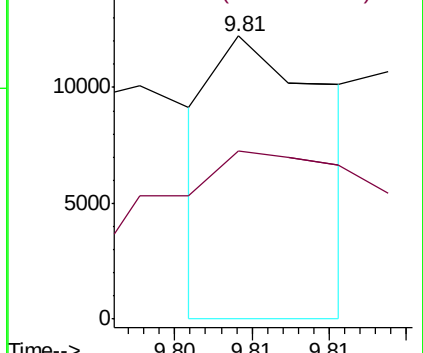
91 100

92 214.9 48.6 72.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034897.D

Acq: 16 Mar 2020 19:24

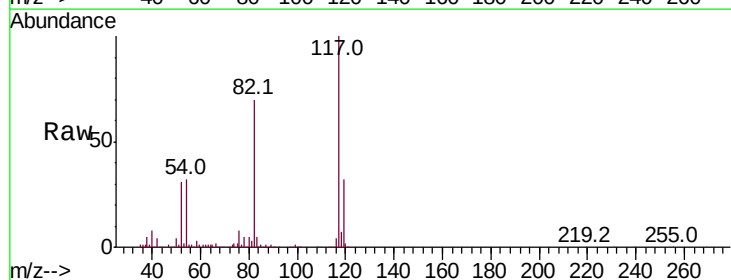
Tgt Ion: 117 Resp: 1873392

Ion Ratio Lower Upper

117 100

82 70.0 51.1 76.7

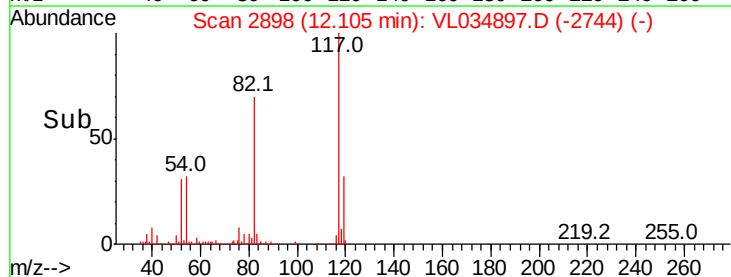
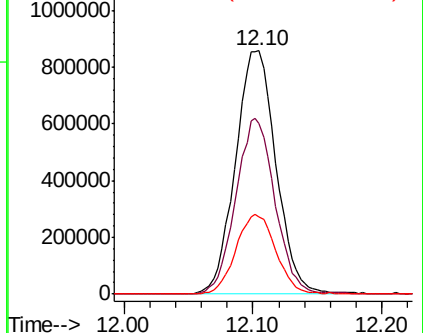
119 32.5 27.3 40.9

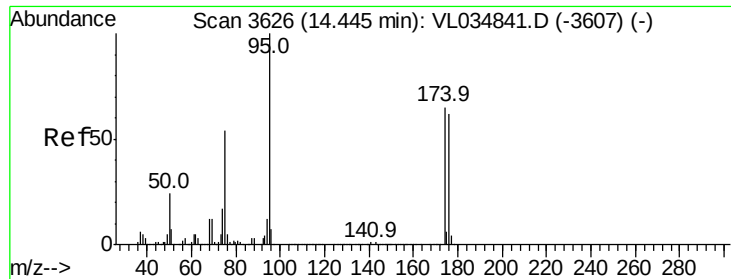


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.203 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL034897.D

Acq: 16 Mar 2020 19:24

Instrument :

MSVOA_L

ClientSampleId :

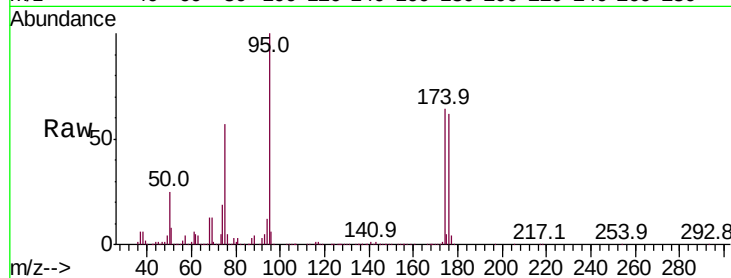
Tot Ion: 95 Resp: 1490683

Ion Ratio Lower Upper

95 100

174 65.7 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

