

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035060.D
 Acq On : 20 May 2020 1:31
 Operator : SY/AP
 Sample : L2683-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 20 04:49:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1150227	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2621651	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2512932	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2127811	10.46	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

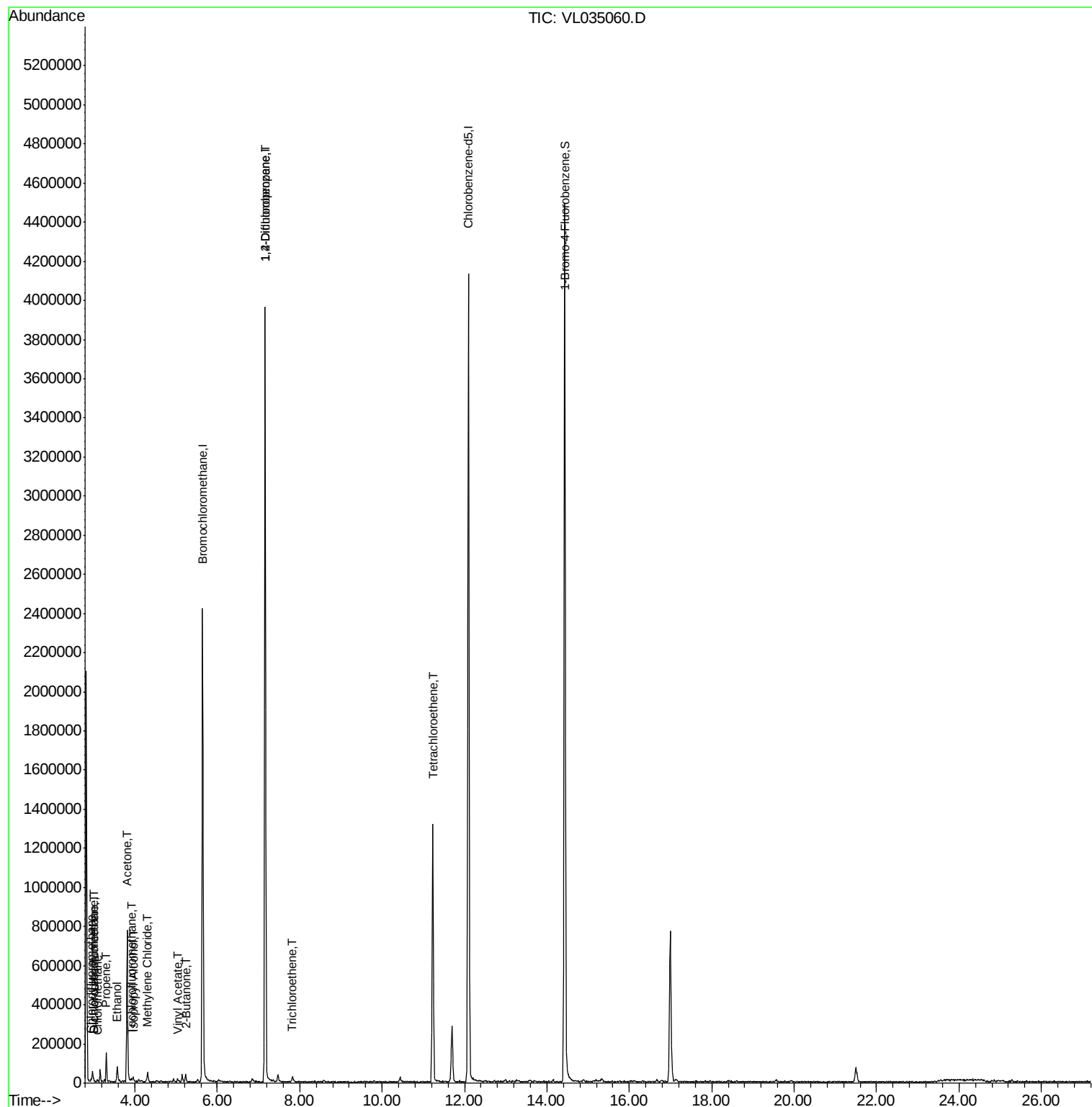
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	11057	0.068	ppbv	97
3) Chlorodifluoromethane	2.93	51	10346	0.079	ppbv	93
4) Chloromethane	3.10	50	2676	0.036	ppbv #	74
8) Dichlorotetrafluoroethane	3.00	85	11057	0.065	ppbv #	19
9) Propene	3.30	41	23495	0.412	ppbv	89
11) Trichlorofluoromethane	3.91	101	5691	0.034	ppbv #	68
13) Ethanol	3.56	45	38267	2.035	ppbv #	43
15) Acetone	3.81	43	774421	5.093	ppbv	99
19) Isopropyl Alcohol	3.94	45	10628	0.105	ppbv #	94
20) Methylene Chloride	4.31	84	13663	0.271	ppbv	85
23) Vinyl Acetate	5.03	43	9493	0.049	ppbv #	90
34) 2-Butanone	5.23	43	38249	0.235	ppbv	98
38) Trichloroethene	7.82	130	3428	0.041	ppbv #	85
39) 1,2-Dichloropropane	7.16	63	727176	8.392	ppbv #	25
52) Tetrachloroethene	11.23	164	298514	3.884	ppbv	96

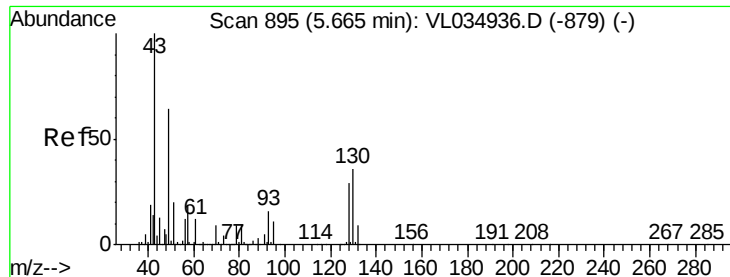
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035060.D
Acq On : 20 May 2020 1:31
Operator : SY/AP
Sample : L2683-07DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: May 20 04:49:41 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

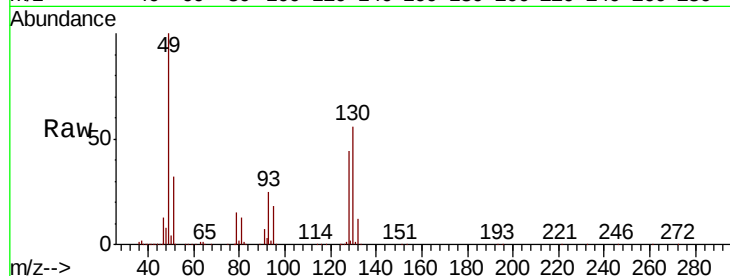
Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 49 Resp: 1150227

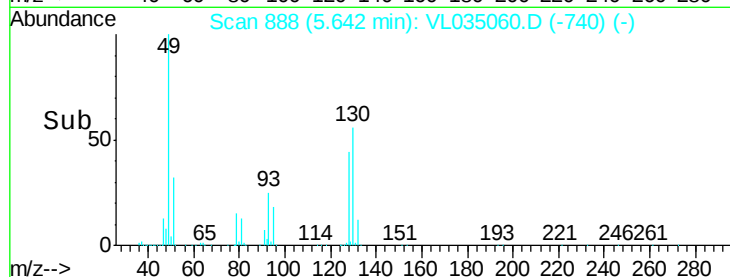
Ion	Ratio	Lower	Upper
49	100		
128	45.8	22.1	66.5
130	58.1	29.1	87.3



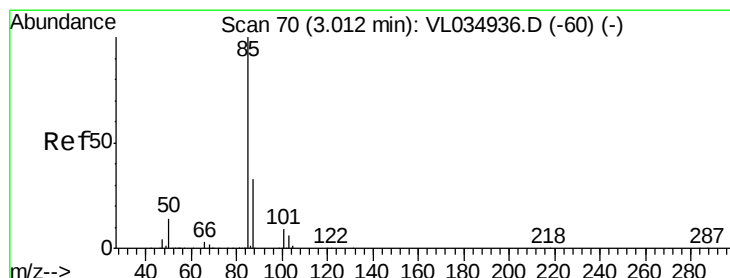
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time--> 5.55 5.60 5.65 5.70



#2

Dichlorodifluoromethane

Concen: 0.068 ppbv

RT: 3.00 min Scan# 66

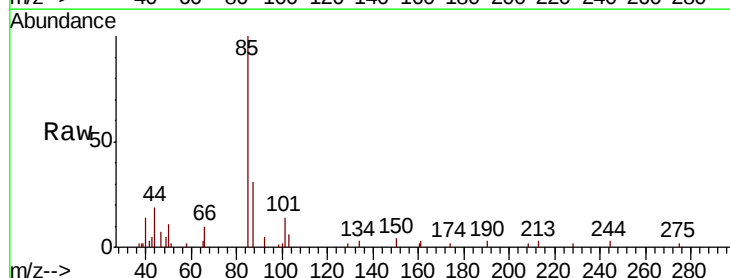
Delta R.T. -0.01 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

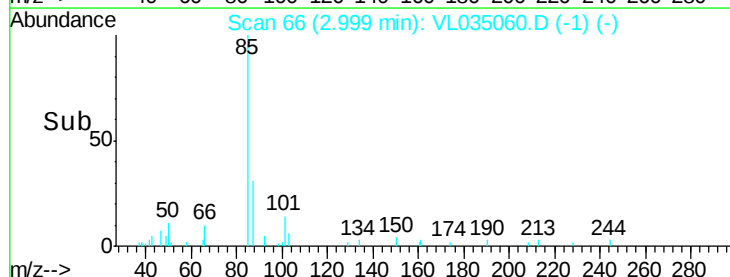
Tgt Ion: 85 Resp: 11057

Ion	Ratio	Lower	Upper
85	100		
87	30.7	26.2	39.2

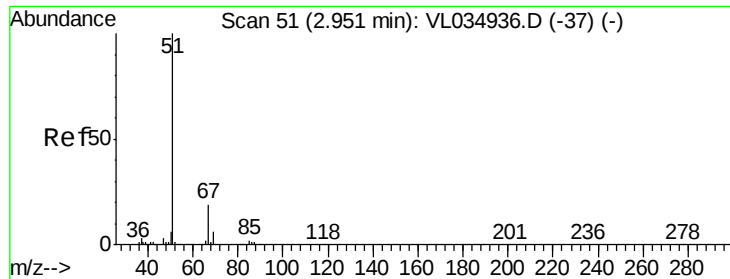


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Time--> 2.96 2.98 3.00 3.02



#3

Chlorodifluoromethane

Concen: 0.079 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

Instrument :

MSVOA_L

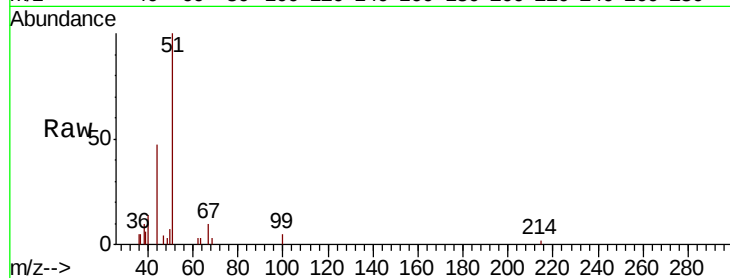
ClientSampleId :

Tot Ion: 51 Resp: 10346

Ion Ratio Lower Upper

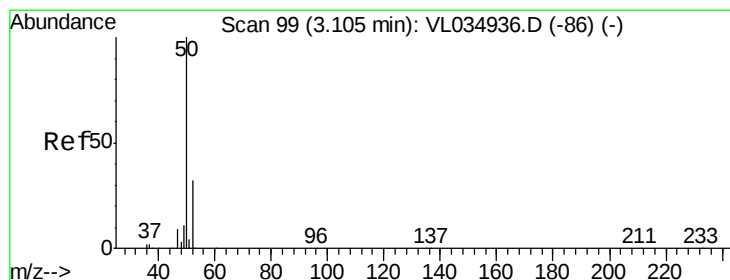
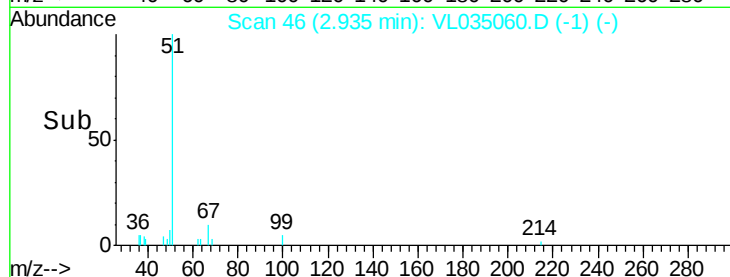
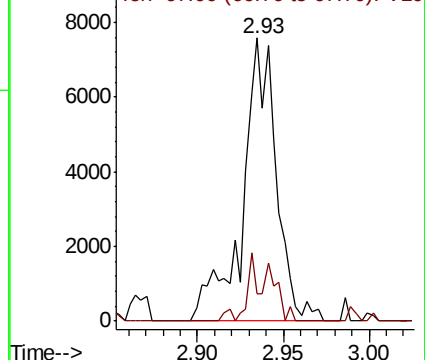
51 100

67 15.4 15.0 22.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL035060.D

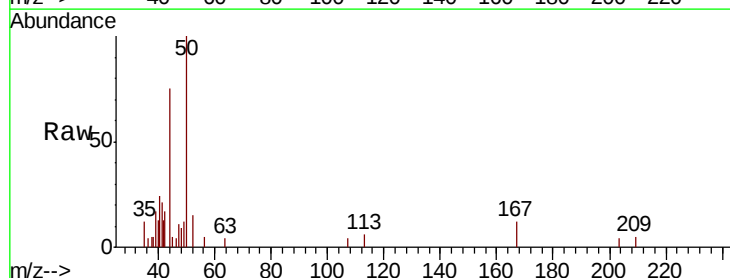
Acq: 20 May 2020 1:31

Tgt Ion: 50 Resp: 2676

Ion Ratio Lower Upper

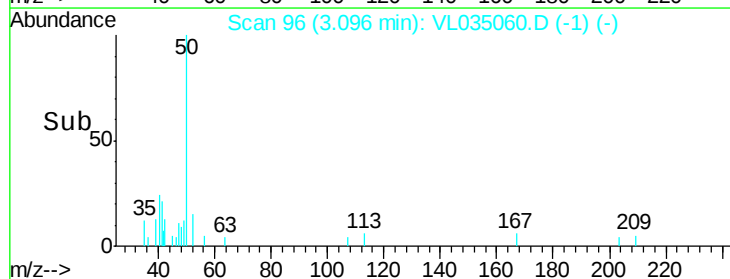
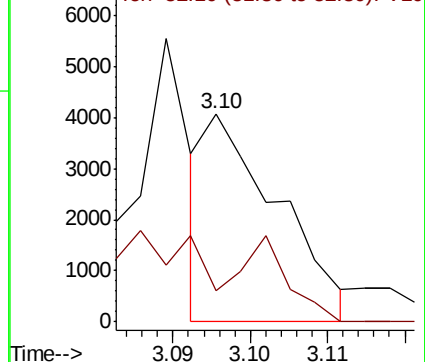
50 100

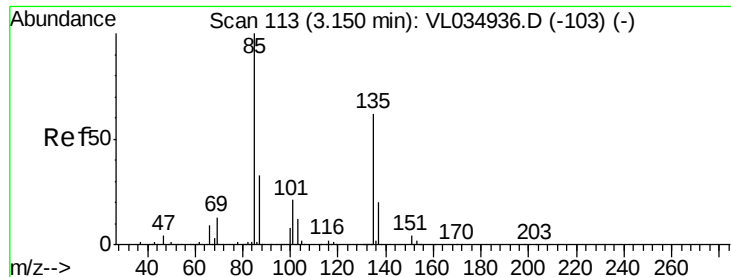
52 17.6 25.4 38.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.065 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.15 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

Instrument :

MSVOA_L

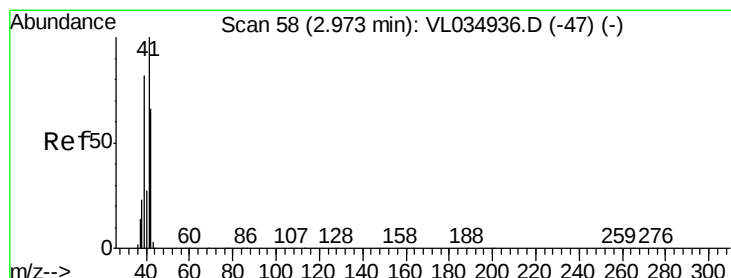
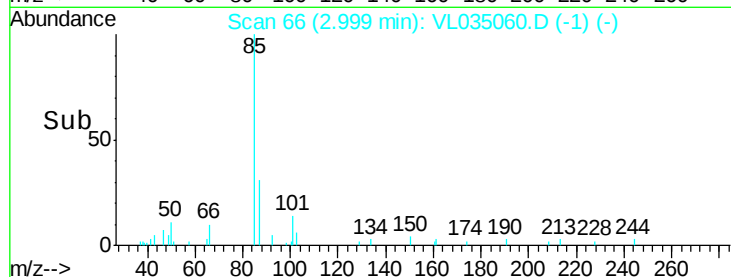
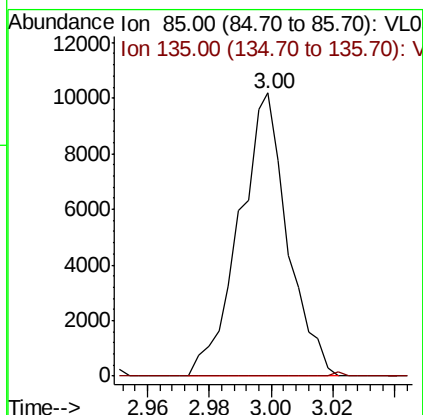
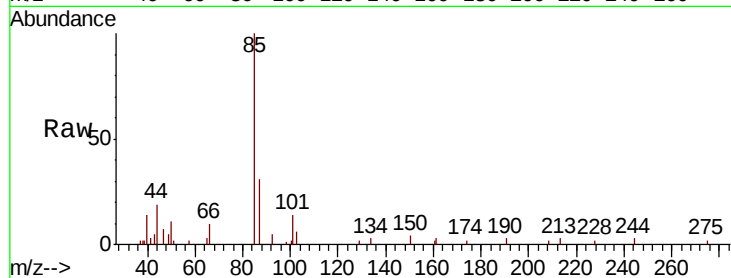
ClientSampleId :

Tot Ion: 85 Resp: 11057

Ion Ratio Lower Upper

85 100

135 0.3 50.9 76.3#



#9

Propene

Concen: 0.412 ppbv

RT: 3.30 min Scan# 161

Delta R.T. 0.33 min

Lab File: VL035060.D

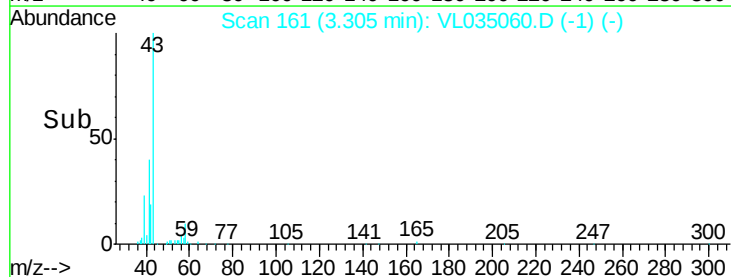
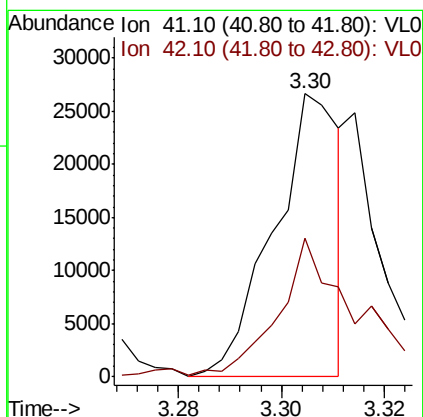
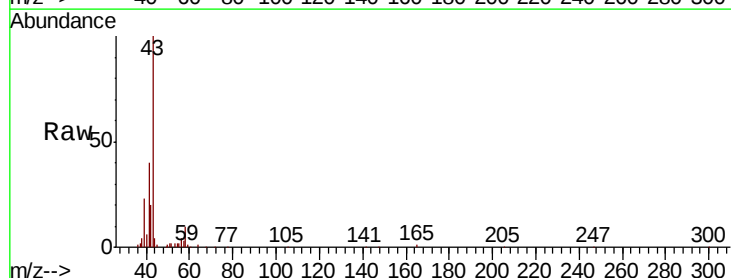
Acq: 20 May 2020 1:31

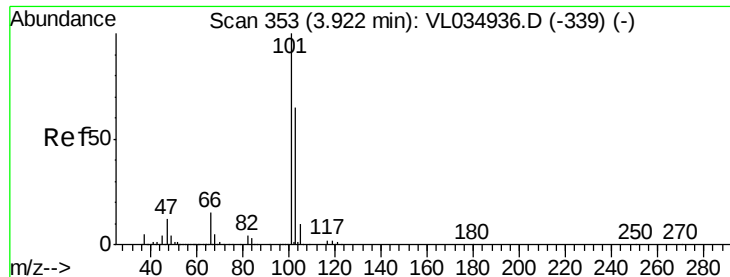
Tgt Ion: 41 Resp: 23495

Ion Ratio Lower Upper

41 100

42 59.3 54.5 81.7





#11

Trichlorofluoromethane

Concen: 0.034 ppbv

RT: 3.91 min Scan# 348

Delta R.T. -0.02 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

Instrument :

MSVOA_L

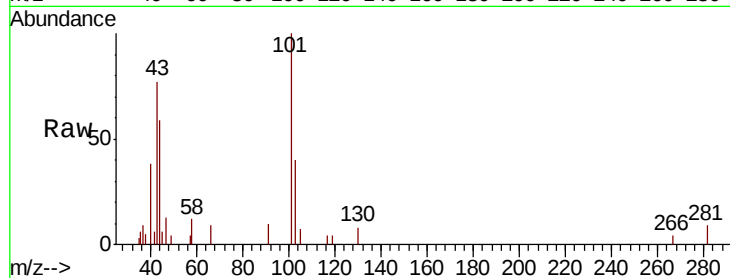
ClientSampleId :

Tot Ion:101 Resp: 5691

Ion Ratio Lower Upper

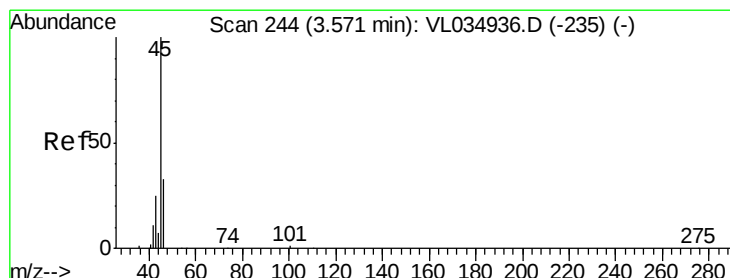
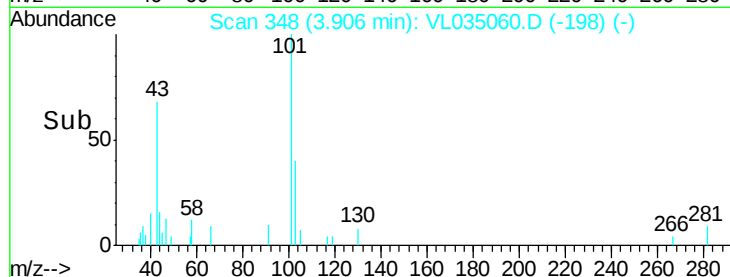
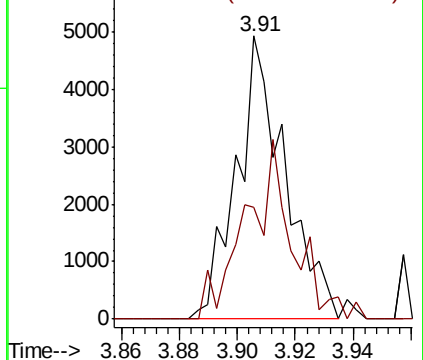
101 100

103 39.7 51.9 77.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 2.035 ppbv

RT: 3.56 min Scan# 242

Delta R.T. -0.01 min

Lab File: VL035060.D

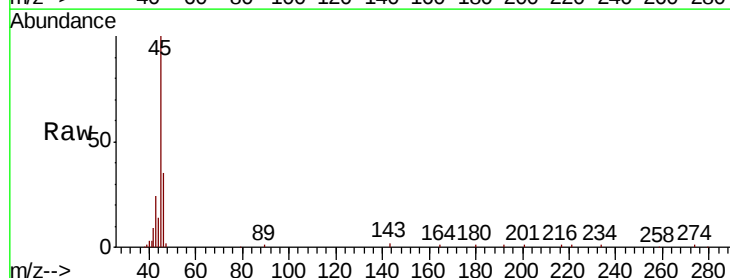
Acq: 20 May 2020 1:31

Tgt Ion: 45 Resp: 38267

Ion Ratio Lower Upper

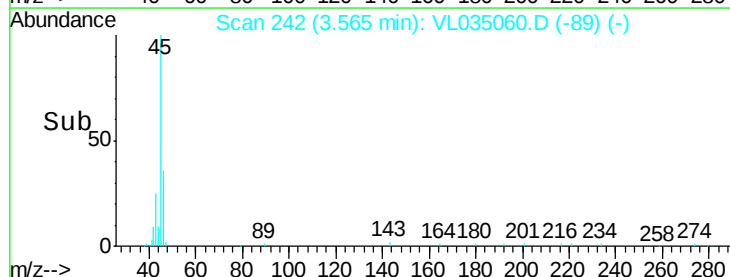
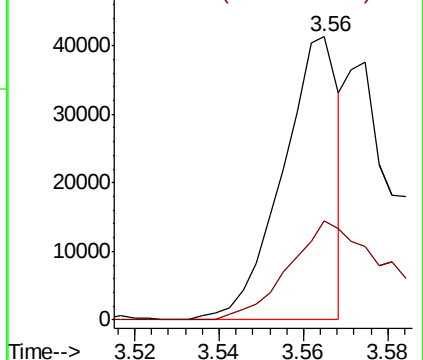
45 100

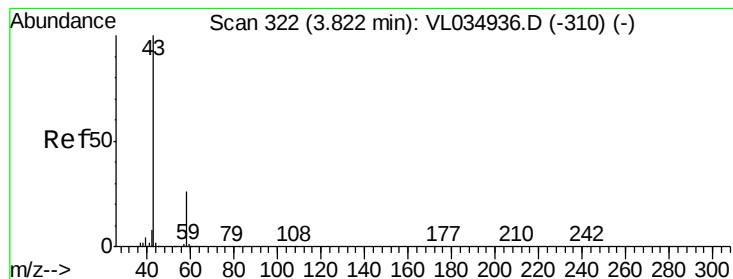
46 69.2 14.3 57.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.093 ppbv

RT: 3.81 min Scan# 317

Delta R.T. -0.02 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

Instrument :

MSVOA_L

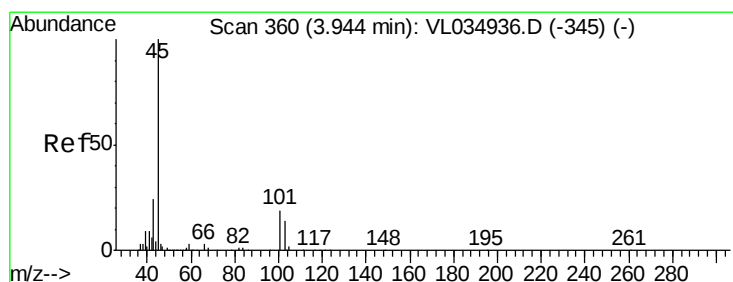
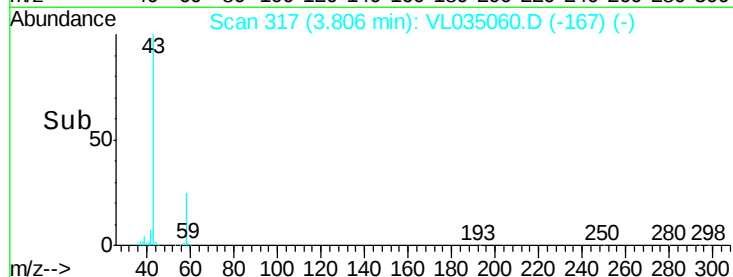
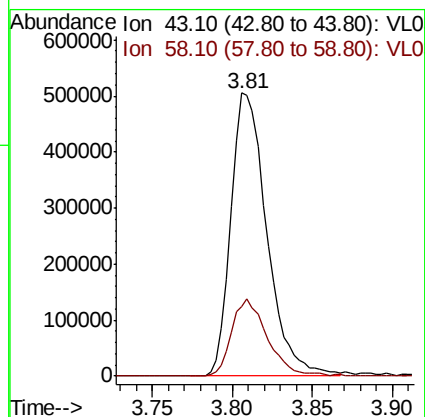
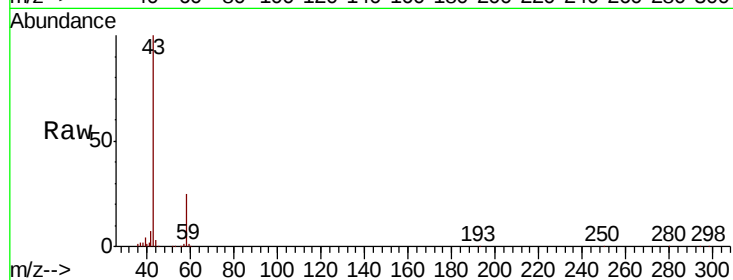
ClientSampleId :

Tot Ion: 43 Resp: 774421

Ion Ratio Lower Upper

43 100

58 27.5 21.7 32.5



#19

Isopropyl Alcohol

Concen: 0.105 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL035060.D

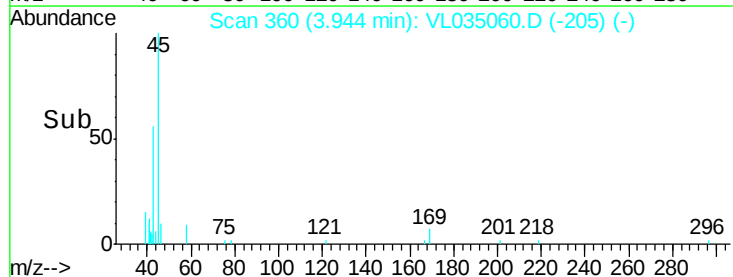
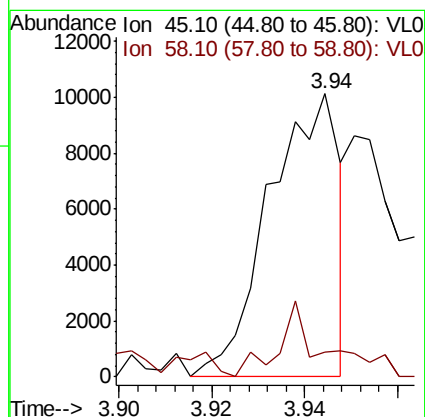
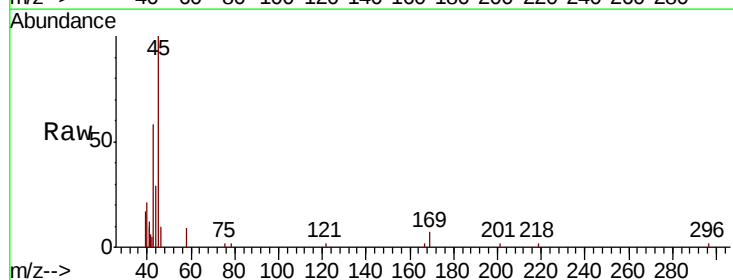
Acq: 20 May 2020 1:31

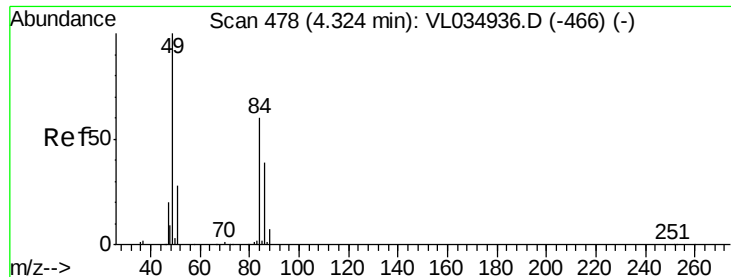
Tgt Ion: 45 Resp: 10628

Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

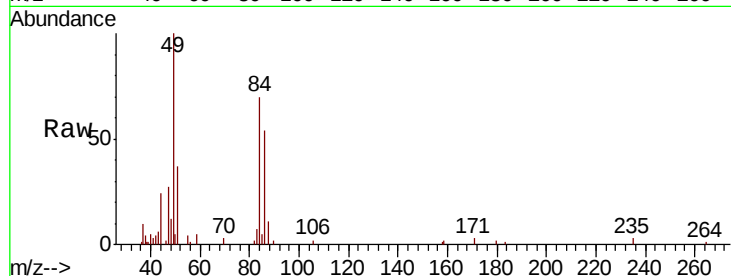




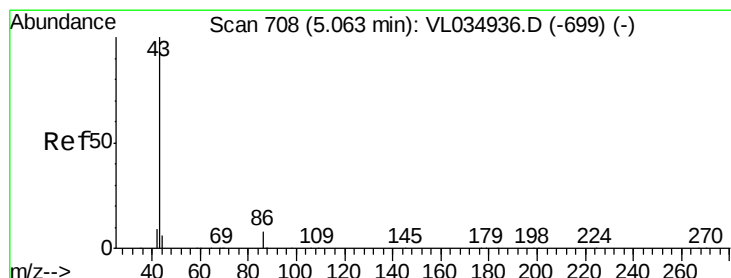
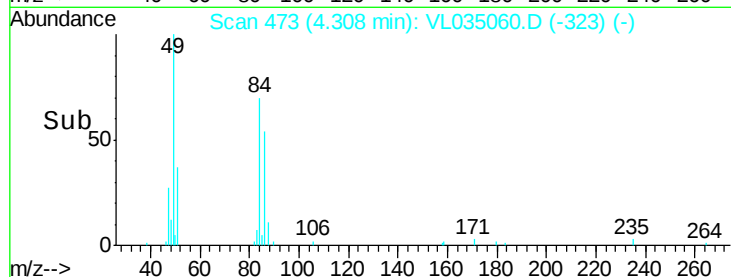
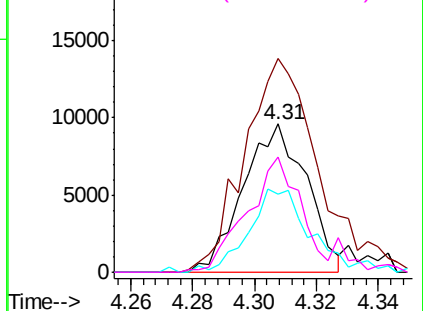
#20
Methvlene Chloride
Concen: 0.271 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035060.D
Acq: 20 May 2020 1:31

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 13663
Ion Ratio Lower Upper
84 100
49 141.9 132.5 198.7
51 52.5 38.4 57.6
86 75.8 51.2 76.8

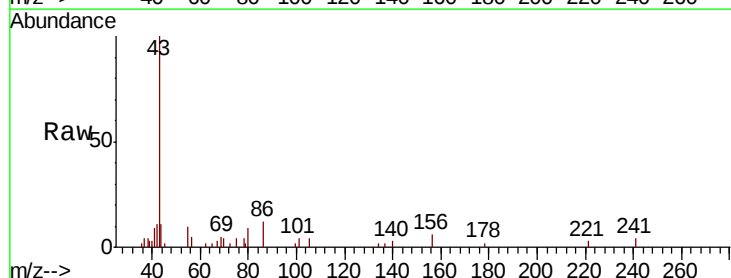


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

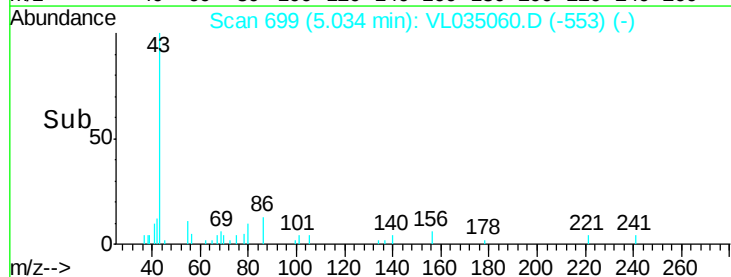
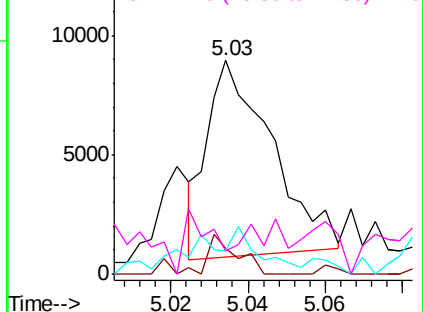


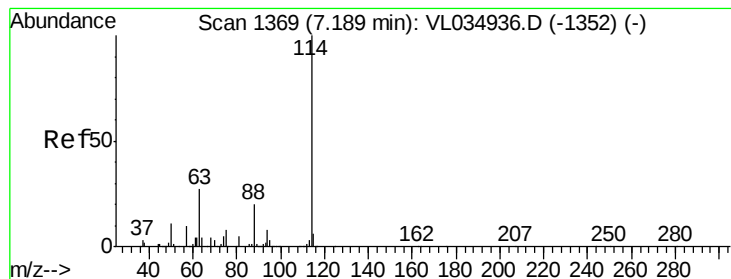
#23
Vinyl Acetate
Concen: 0.049 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.03 min
Lab File: VL035060.D
Acq: 20 May 2020 1:31

Tgt Ion: 43 Resp: 9493
Ion Ratio Lower Upper
43 100
86 9.9 5.5 8.3#
42 7.6 8.0 12.0#
44 0.0 4.5 6.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.03 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

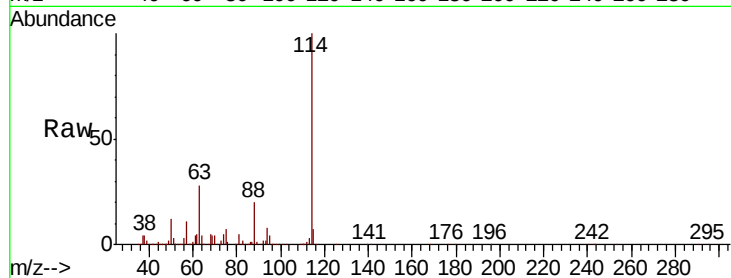
Tot Ion:114 Resp: 2621651

Ion Ratio Lower Upper

114 100

63 28.0 22.2 33.4

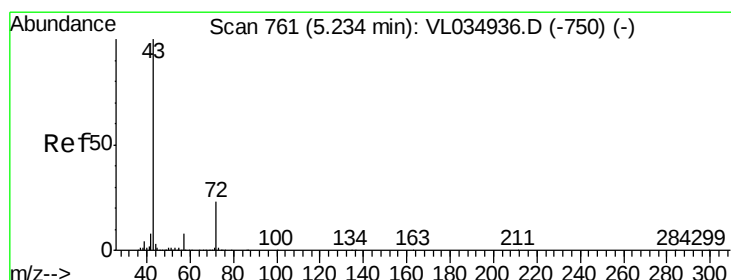
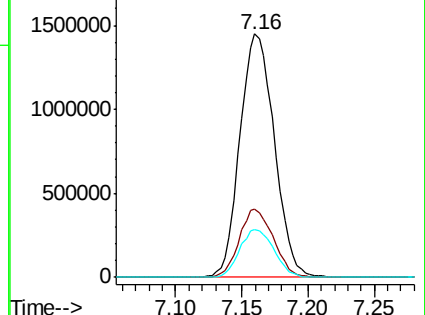
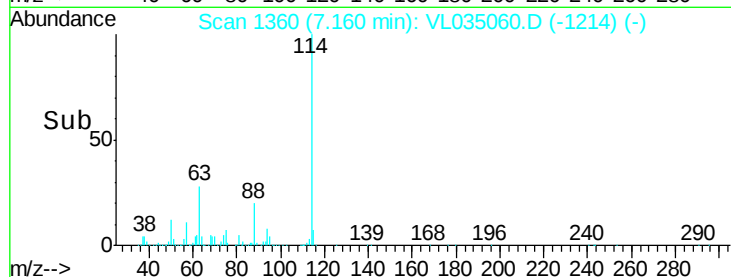
88 19.7 15.5 23.3



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



#34

2-Butanone

Concen: 0.235 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.00 min

Lab File: VL035060.D

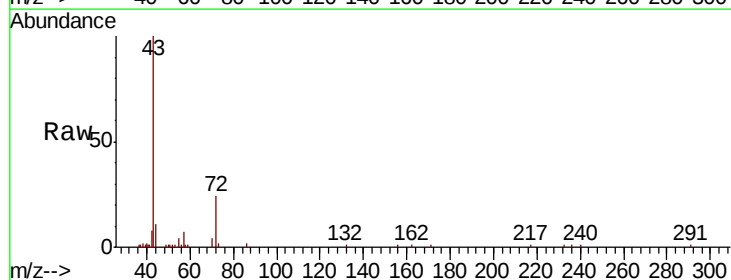
Acq: 20 May 2020 1:31

Tgt Ion: 43 Resp: 38249

Ion Ratio Lower Upper

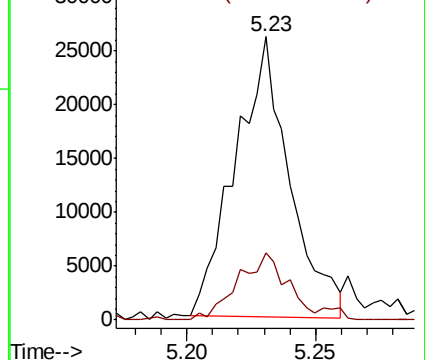
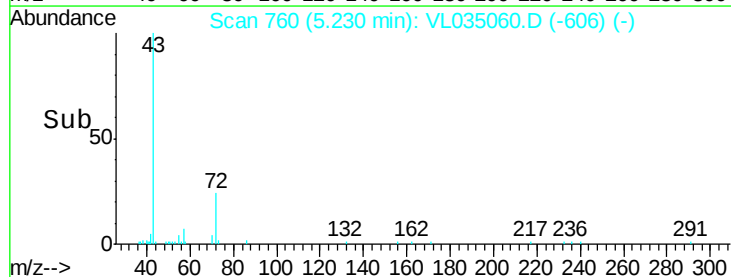
43 100

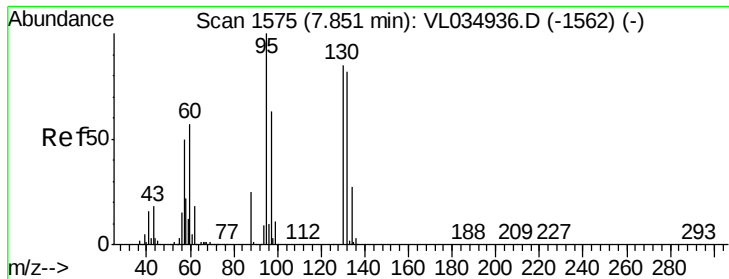
72 23.7 18.0 27.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

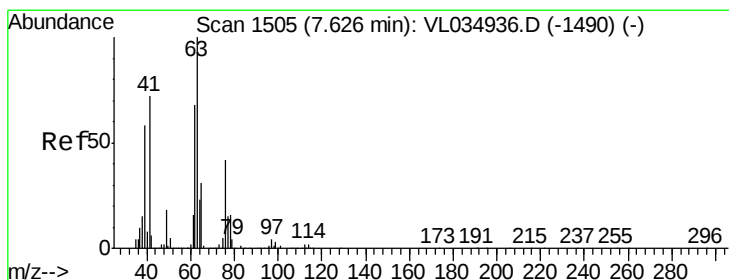
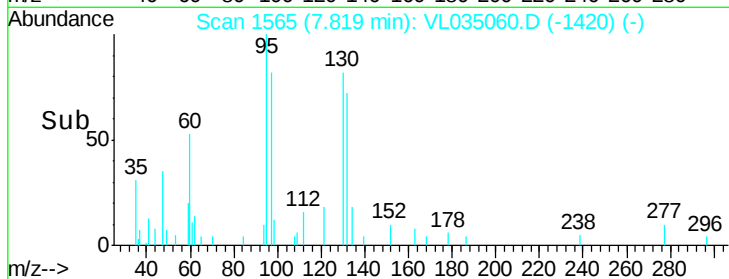
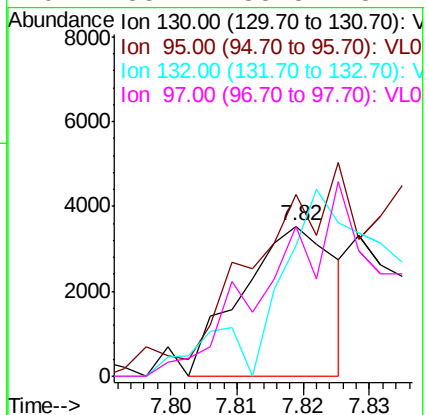
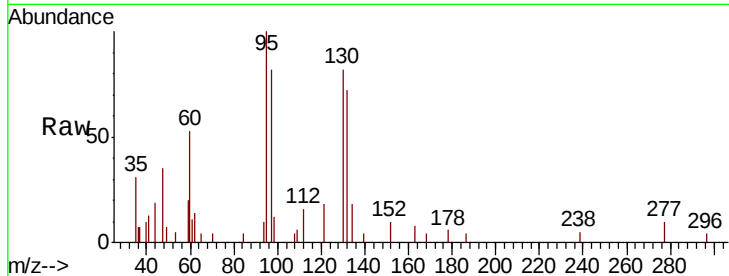




#38
 Trichloroethene
 Concen: 0.041 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. -0.03 min
 Lab File: VL035060.D
 Acq: 20 May 2020 1:31

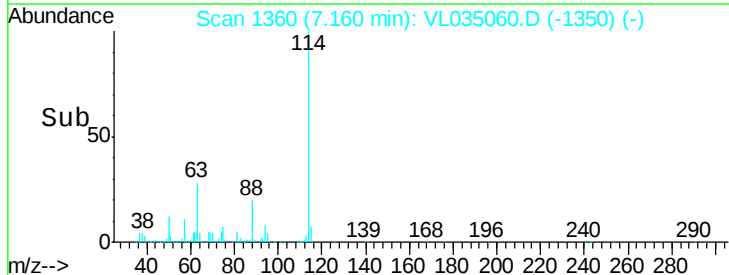
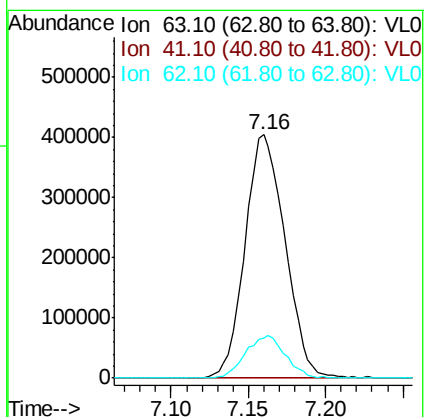
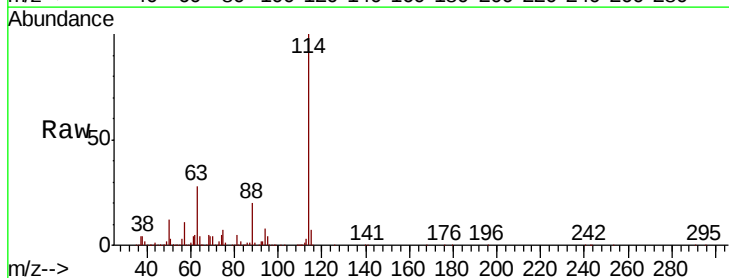
Instrument :
 MSVOA_L
 ClientSampleId :

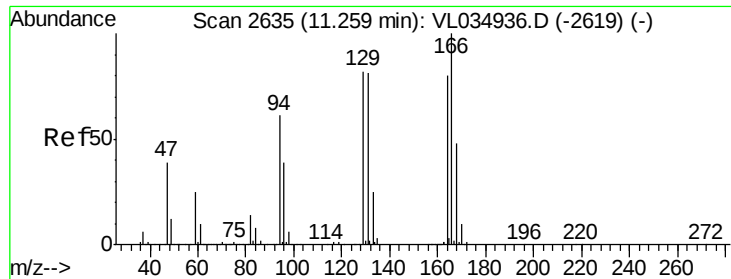
Tot Ion:130 Resp: 3428
 Ion Ratio Lower Upper
 130 100
 95 109.9 93.4 140.0
 132 73.4 76.4 114.6#
 97 88.2 58.5 87.7#



#39
 1,2-Dichloropropane
 Concen: 8.392 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.47 min
 Lab File: VL035060.D
 Acq: 20 May 2020 1:31

Tgt Ion: 63 Resp: 727176
 Ion Ratio Lower Upper
 63 100
 41 0.1 57.8 86.8#
 62 16.3 54.2 81.2#





#52

Tetrachloroethene

Concen: 3.884 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. -0.03 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 298514

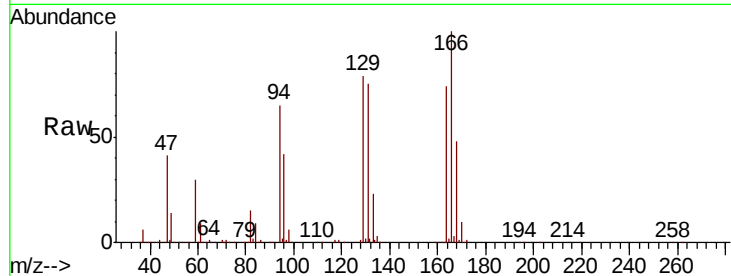
Ion Ratio Lower Upper

164 100

166 134.1 100.7 151.1

129 106.0 83.0 124.4

131 100.2 81.0 121.4

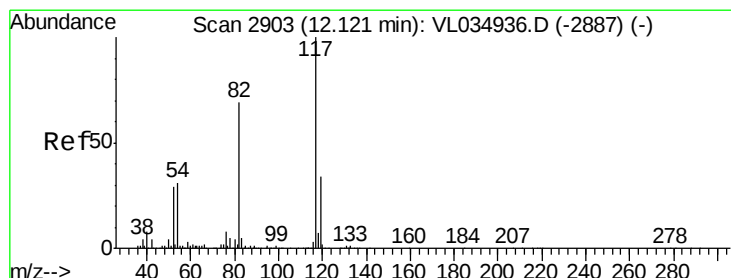
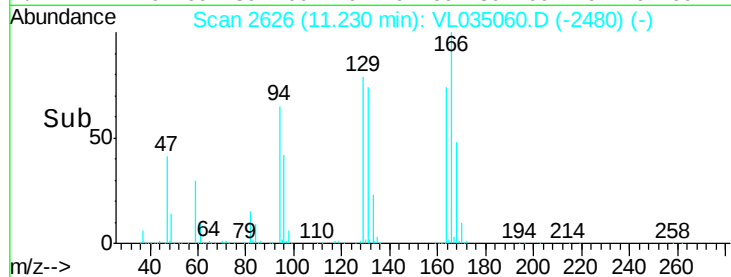
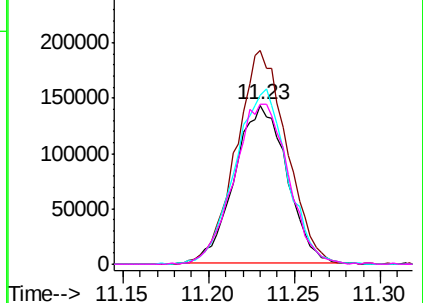


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.03 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

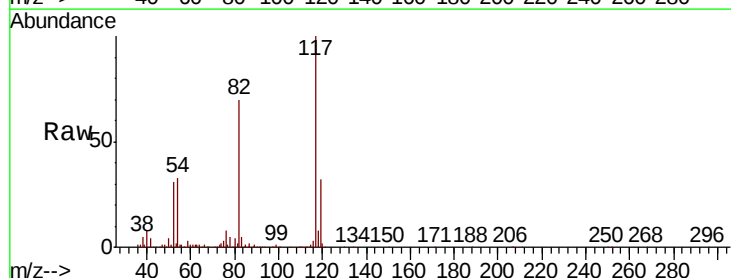
Tgt Ion:117 Resp: 2512932

Ion Ratio Lower Upper

117 100

82 69.5 53.1 79.7

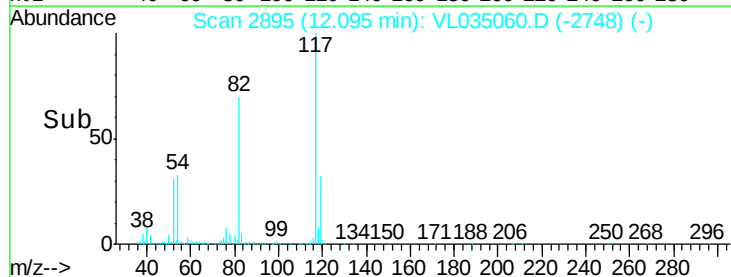
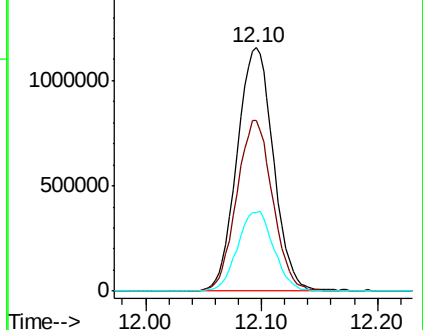
119 32.9 26.7 40.1

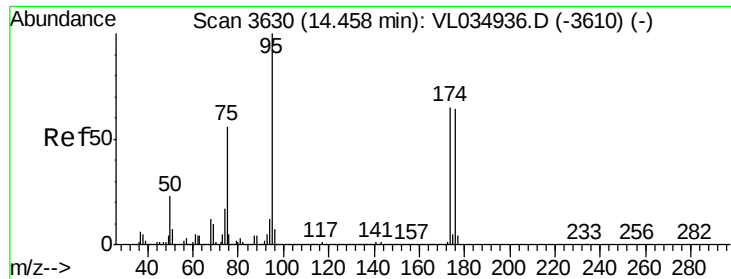


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.461 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. -0.03 min

Lab File: VL035060.D

Acq: 20 May 2020 1:31

Instrument :

MSVOA_L

ClientSampleId :

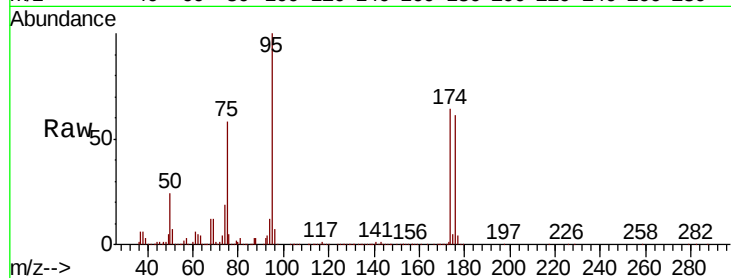
Tot Ion: 95 Resp: 2127811

Ion Ratio Lower Upper

95 100

174 64.0 51.5 77.3

175 4.7 3.8 5.8



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

