

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092120\
 Data File : VL035699.D
 Acq On : 21 Sep 2020 23:25
 Operator : SY/AP
 Sample : L3983-01DL2 1200X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-8DL2

Quant Time: Sep 22 01:30:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	997645	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3624012	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.07	117	3697452	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2671669	10.17	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

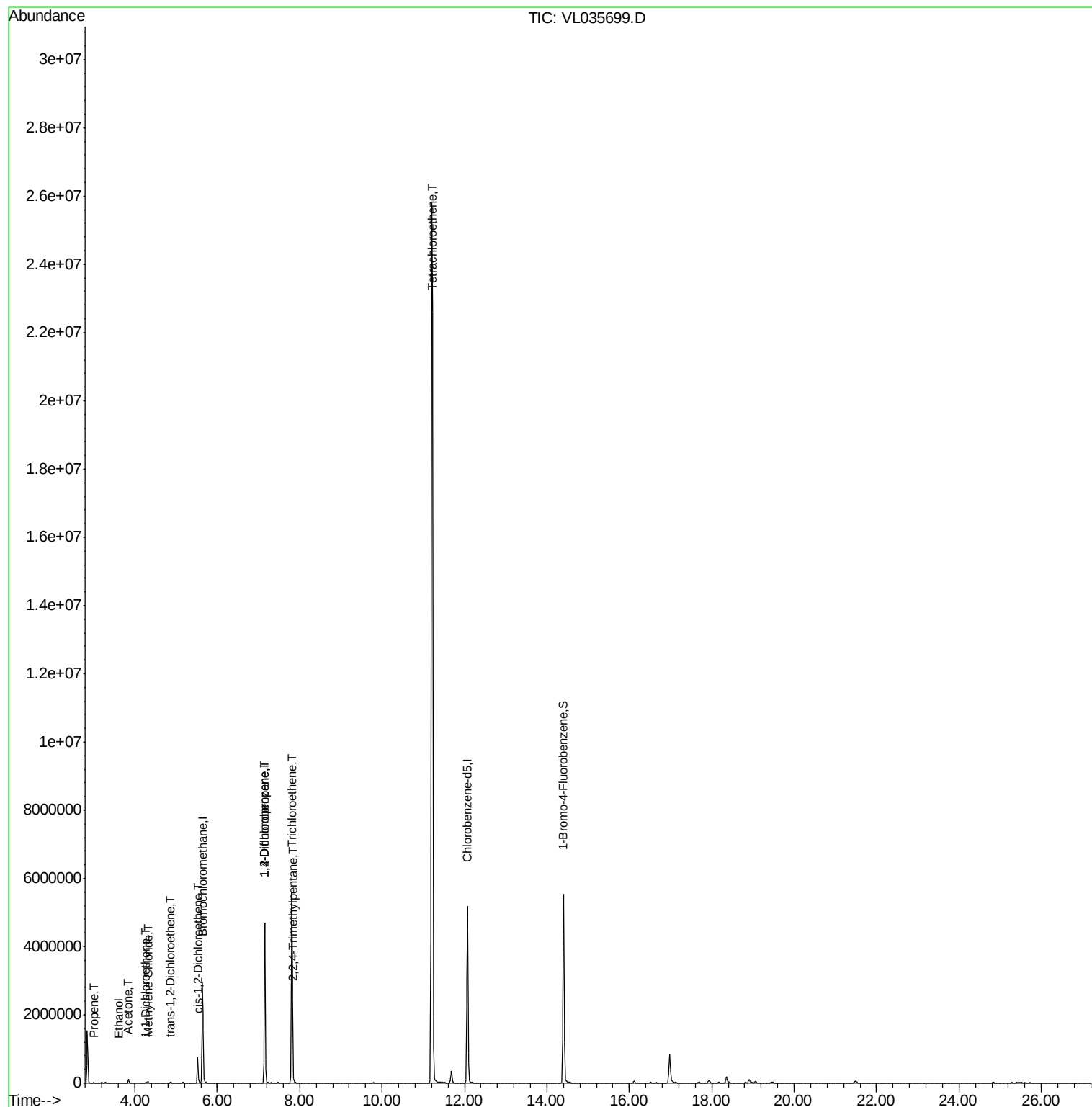
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	4215	0.099	ppbv	94
13) Ethanol	3.59	45	510	0.048	ppbv #	1
15) Acetone	3.84	43	100903	0.917	ppbv	91
18) 1,1-Dichloroethene	4.27	96	6920	0.083	ppbv	94
20) Methylene Chloride	4.32	84	15884	0.194	ppbv	94
22) trans-1,2-Dichloroethene	4.86	96	11635	0.130	ppbv #	88
31) cis-1,2-Dichloroethene	5.53	61	340486	3.013	ppbv	96
38) Trichloroethene	7.81	130	1878093	13.783	ppbv	93
39) 1,2-Dichloropropane	7.15	63	701800	8.856	ppbv #	33
44) 2,2,4-Trimethylpentane	7.84	57	21867	0.071	ppbv #	51
52) Tetrachloroethene	11.22	164	7973116	58.179	ppbv #	82

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

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QLast Update : Mon Sep 14 15:19:50 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: VL035699.D

Acq: 21 Sep 2020 23:25

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL2

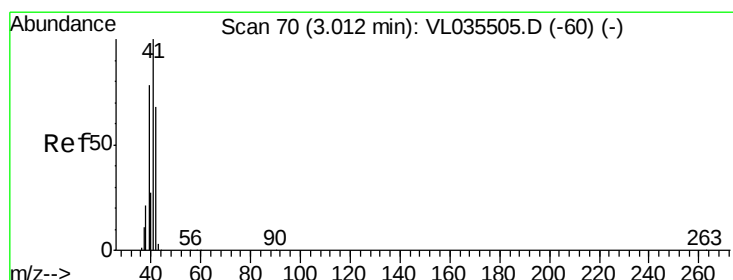
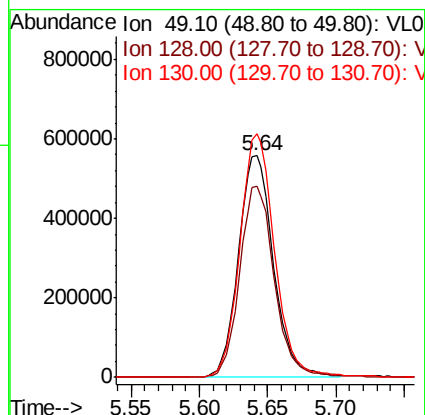
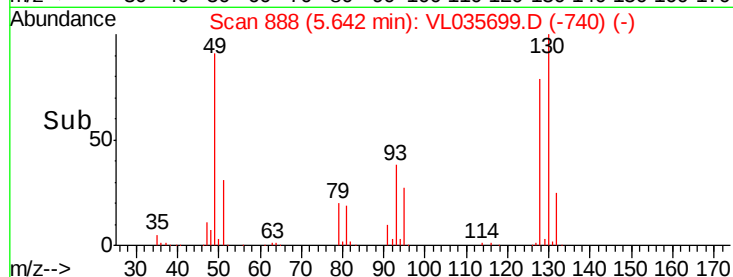
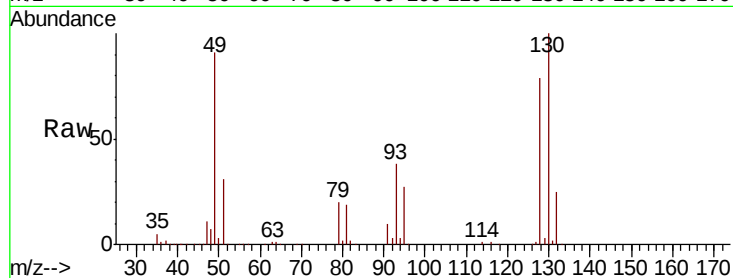
Tot Ion: 49 Resp: 997645

Ion Ratio Lower Upper

49 100

128 85.9 50.0 150.1

130 109.0 64.4 193.2



#9

Propene

Concen: 0.099 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL035699.D

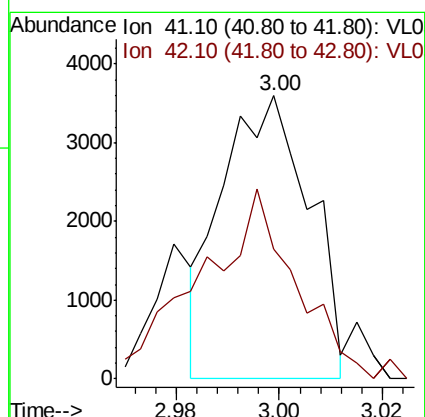
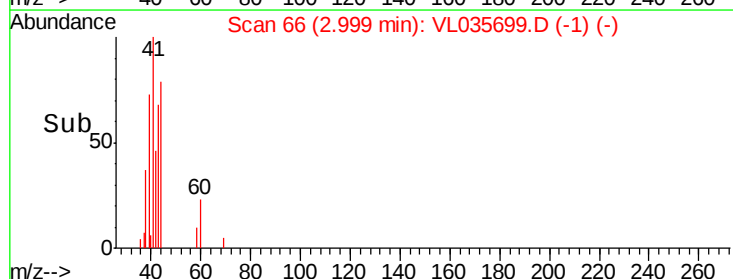
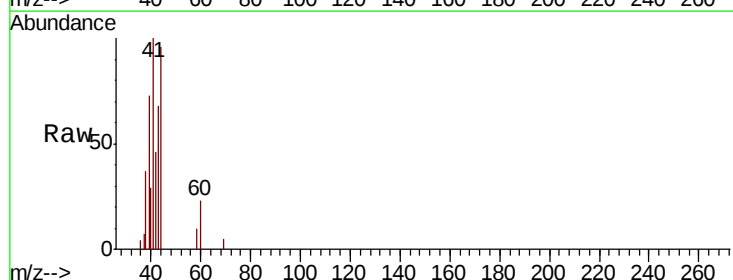
Acq: 21 Sep 2020 23:25

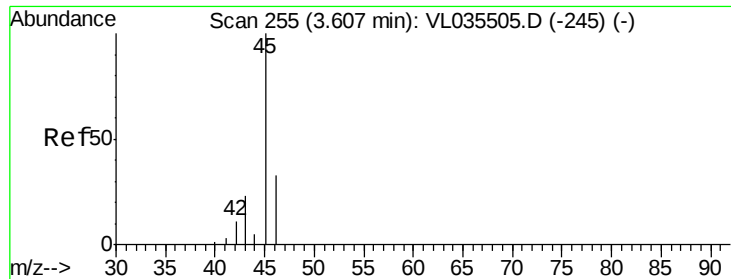
Tgt Ion: 41 Resp: 4215

Ion Ratio Lower Upper

41 100

42 75.5 56.3 84.5





#13

Ethanol

Concen: 0.048 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.00 min

Lab File: VL035699.D

Acq: 21 Sep 2020 23:25

Instrument :

MSVOA_L

ClientSampleId :

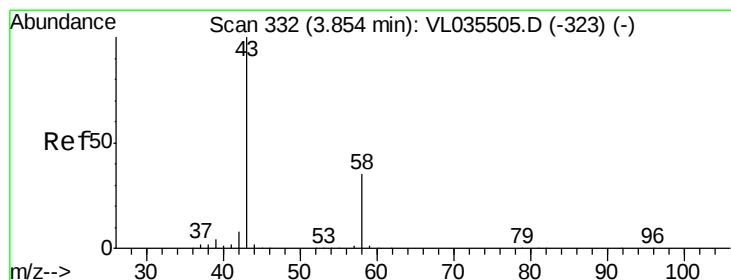
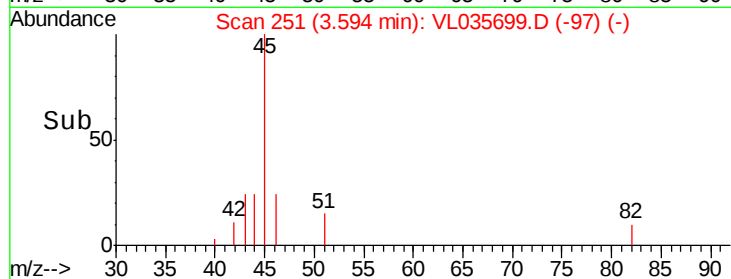
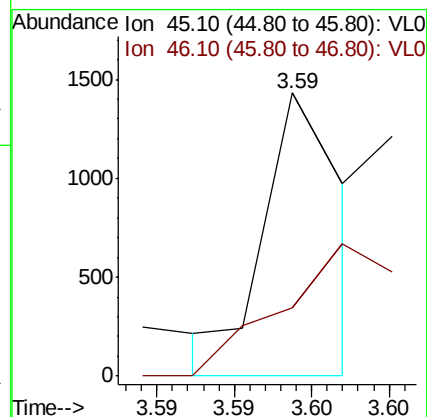
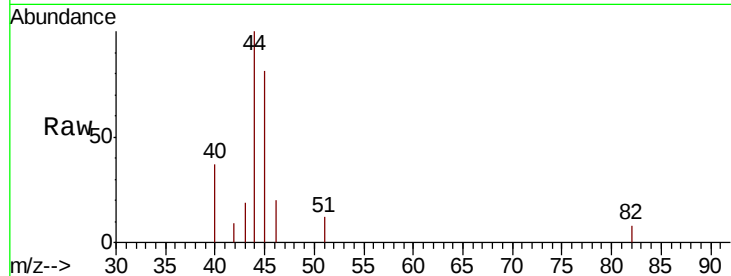
SV-8DL2

Tot Ion: 45 Resp: 510

Ion Ratio Lower Upper

45 100

46 118.0 15.2 60.6#



#15

Acetone

Concen: 0.917 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL035699.D

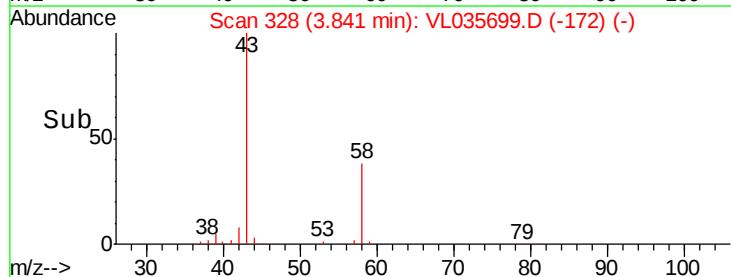
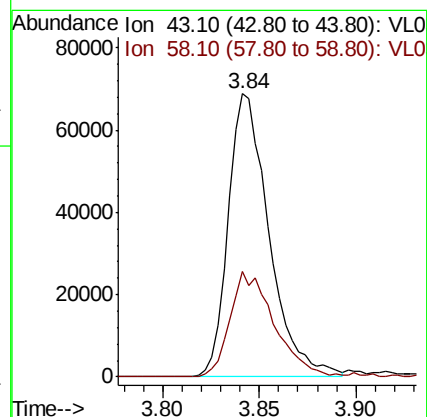
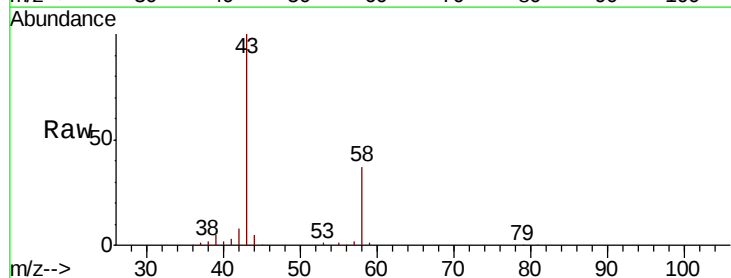
Acq: 21 Sep 2020 23:25

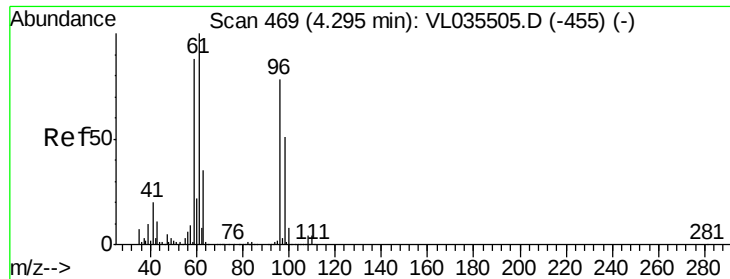
Tgt Ion: 43 Resp: 100903

Ion Ratio Lower Upper

43 100

58 40.8 28.4 42.6



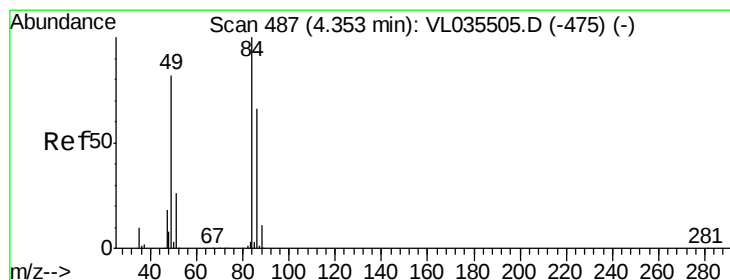
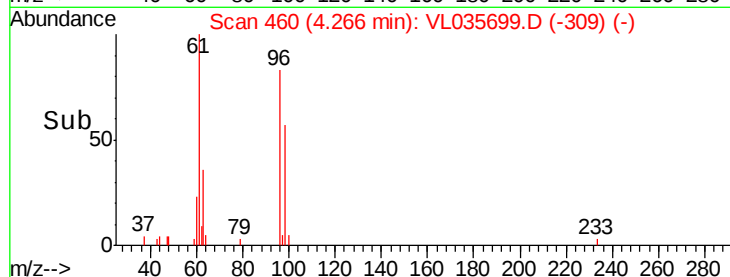
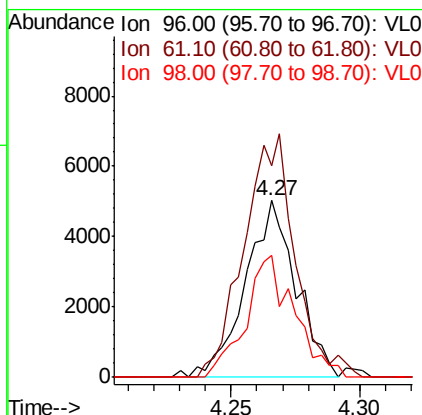
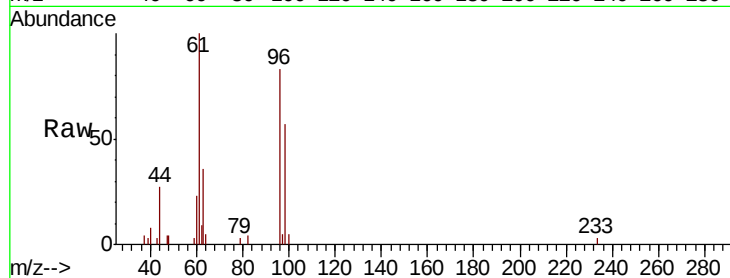


#18
 1,1-Dichloroethene
 Concen: 0.083 ppbv
 RT: 4.27 min Scan# 460
 Delta R.T. -0.01 min
 Lab File: VL035699.D
 Acq: 21 Sep 2020 23:25

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-8DL2

Tot Ion: 96 Resp: 6920

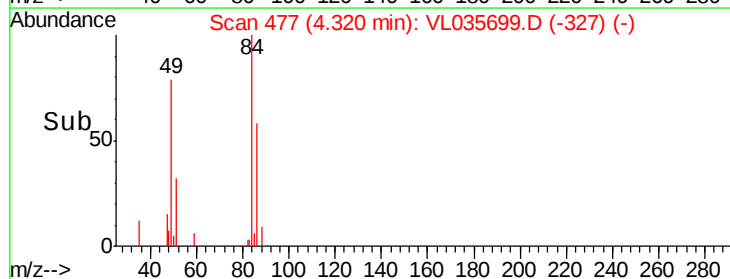
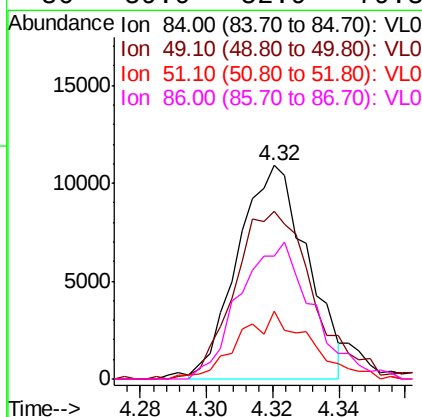
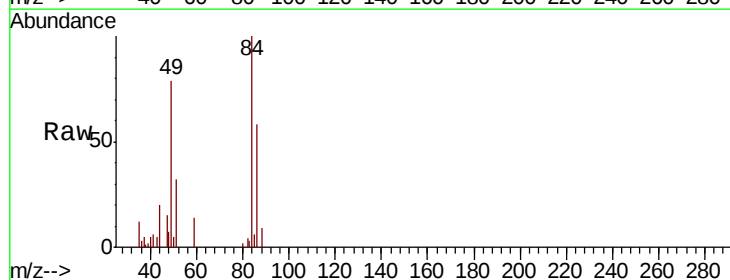
Ion	Ratio	Lower	Upper
96	100		
61	120.1	103.0	154.6
98	68.8	52.8	79.2

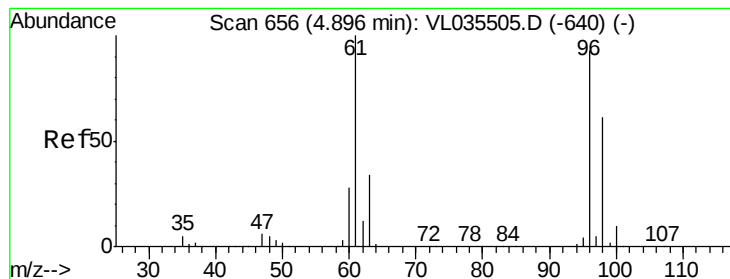


#20
 Methylene Chloride
 Concen: 0.194 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. -0.02 min
 Lab File: VL035699.D
 Acq: 21 Sep 2020 23:25

Tgt Ion: 84 Resp: 15884

Ion	Ratio	Lower	Upper
84	100		
49	78.5	65.4	98.0
51	30.4	21.5	32.3
86	59.0	52.9	79.3





#22

trans-1,2-Dichloroethene

Concen: 0.130 ppbv

RT: 4.86 min Scan# 645

Delta R.T. -0.02 min

Lab File: VL035699.D

Acq: 21 Sep 2020 23:25

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL2

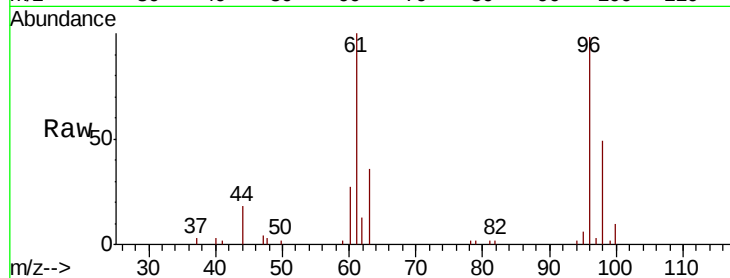
Tot Ion: 96 Resp: 11635

Ion Ratio Lower Upper

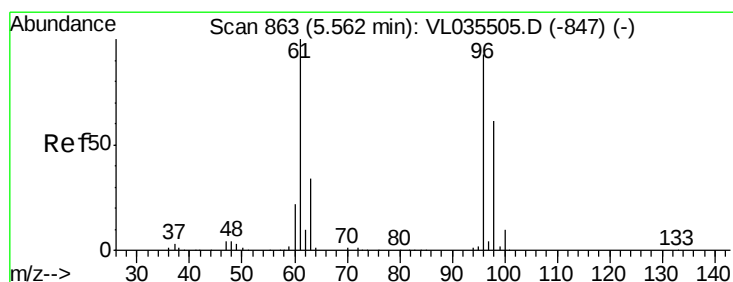
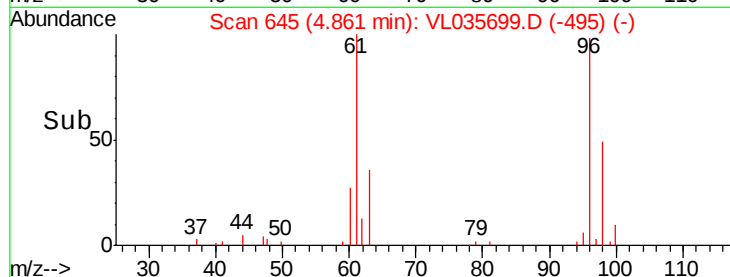
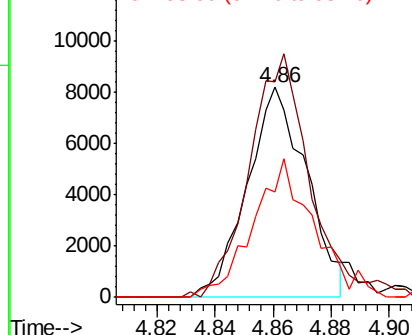
96 100

61 99.9 86.0 129.0

98 50.3 52.3 78.5#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#31

cis-1,2-Dichloroethene

Concen: 3.013 ppbv

RT: 5.53 min Scan# 852

Delta R.T. -0.02 min

Lab File: VL035699.D

Acq: 21 Sep 2020 23:25

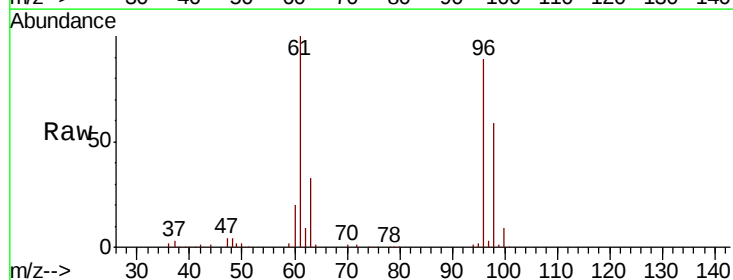
Tgt Ion: 61 Resp: 340486

Ion Ratio Lower Upper

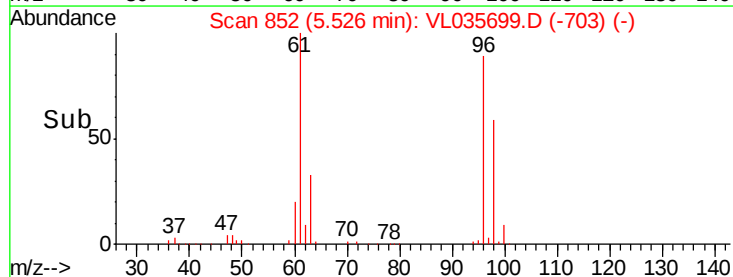
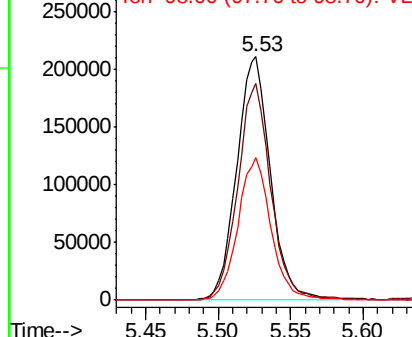
61 100

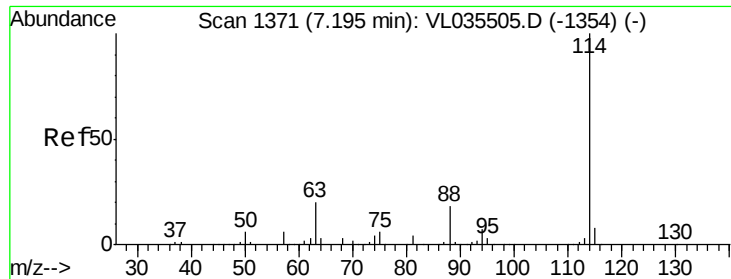
96 89.2 74.4 111.6

98 58.7 49.2 73.8



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0

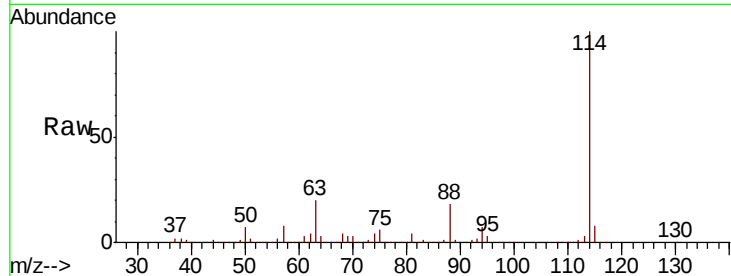




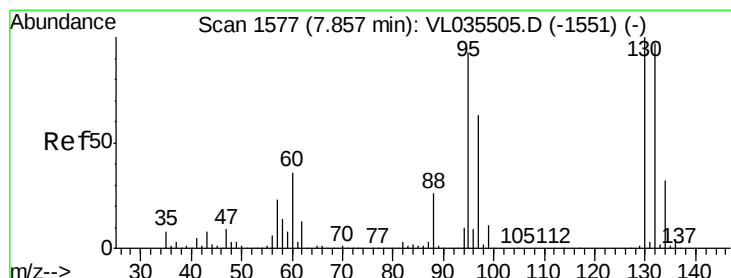
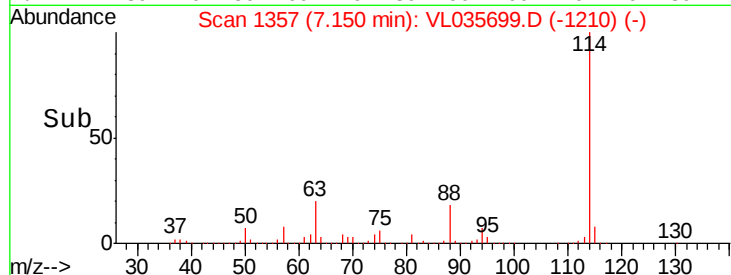
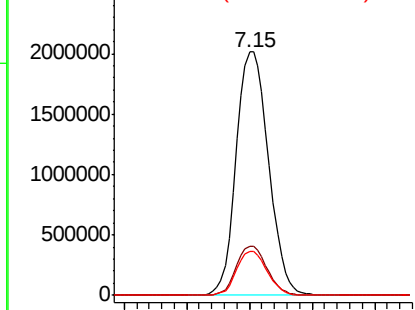
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL035699.D
 Acq: 21 Sep 2020 23:25

Instrument :
 MSVOA_L
 ClientSampled :
 SV-8DL2

Tot Ion:114 Resp: 3624012
 Ion Ratio Lower Upper
 114 100
 63 19.4 14.7 22.1
 88 17.3 13.4 20.2

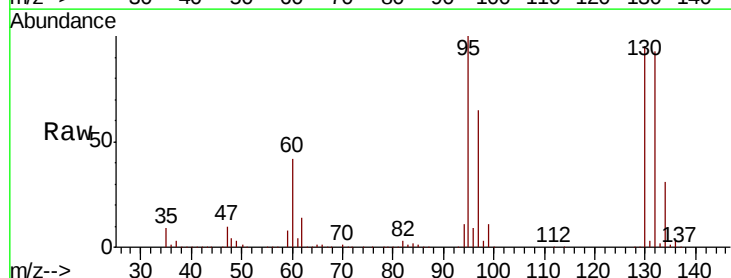


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

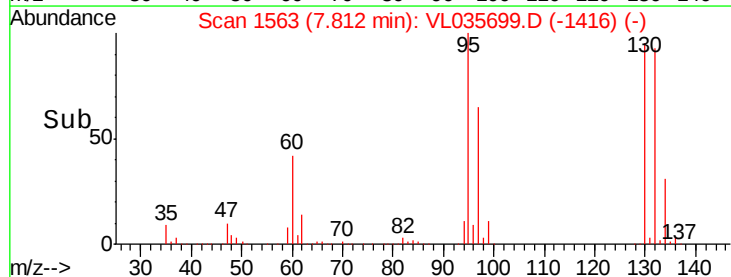
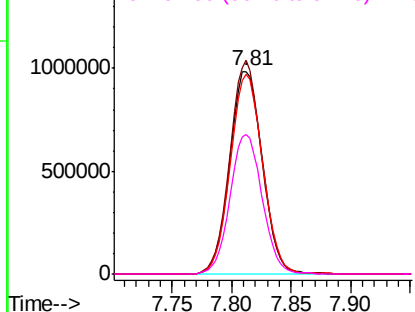


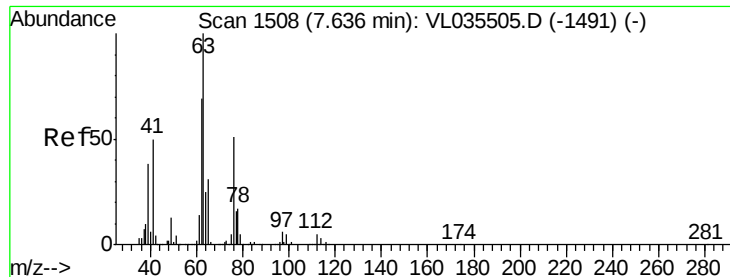
#38
 Trichloroethene
 Concen: 13.783 ppbv
 RT: 7.81 min Scan# 1563
 Delta R.T. -0.03 min
 Lab File: VL035699.D
 Acq: 21 Sep 2020 23:25

Tgt Ion:130 Resp: 1878093
 Ion Ratio Lower Upper
 130 100
 95 105.3 74.6 112.0
 132 98.2 77.6 116.4
 97 68.6 50.6 76.0



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: 8.856 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.46 min

Lab File: VL035699.D

Acq: 21 Sep 2020 23:25

Instrument :

MSVOA_L

ClientSampled :

SV-8DL2

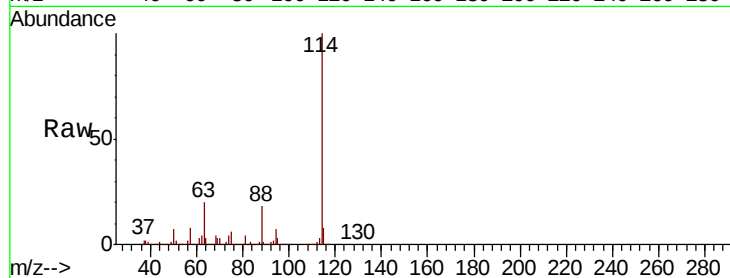
Tot Ion: 63 Resp: 701800

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

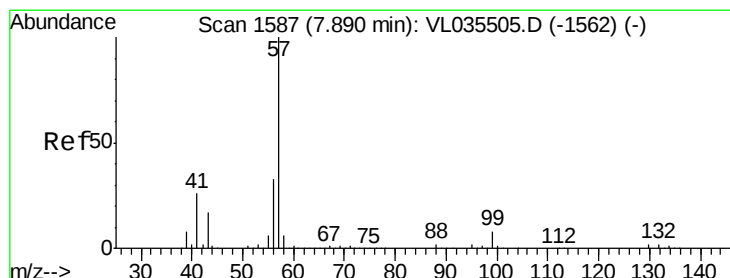
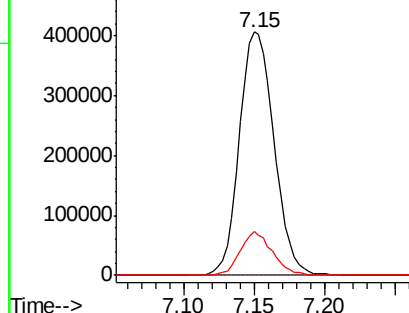
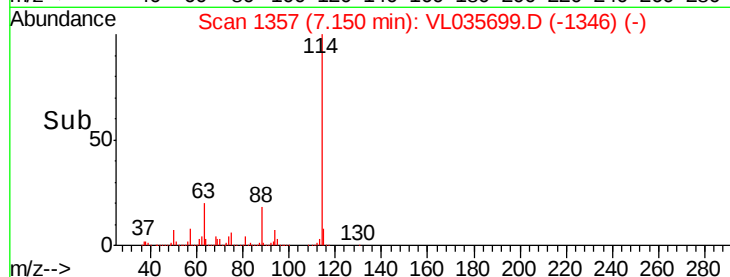
62 18.0 55.4 83.0#



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



#44

2,2,4-Trimethylpentane

Concen: 0.071 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.03 min

Lab File: VL035699.D

Acq: 21 Sep 2020 23:25

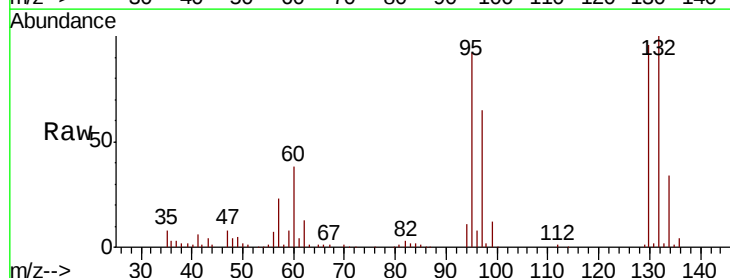
Tgt Ion: 57 Resp: 21867

Ion Ratio Lower Upper

57 100

41 0.0 20.5 30.7#

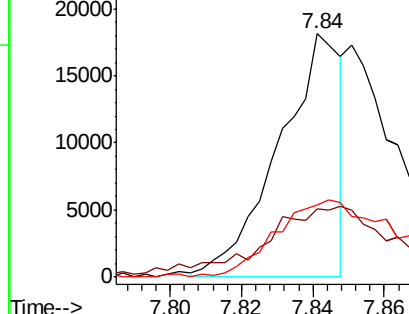
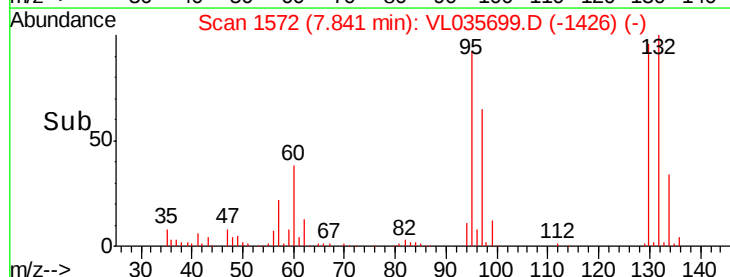
56 58.0 25.3 37.9#

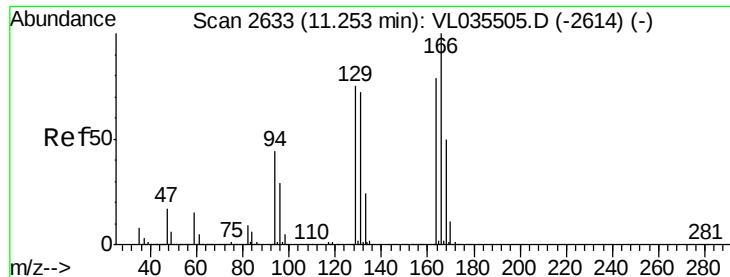


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#52

Tetrachloroethene

Concen: 58.179 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL035699.D

Acq: 21 Sep 2020 23:25

Instrument :

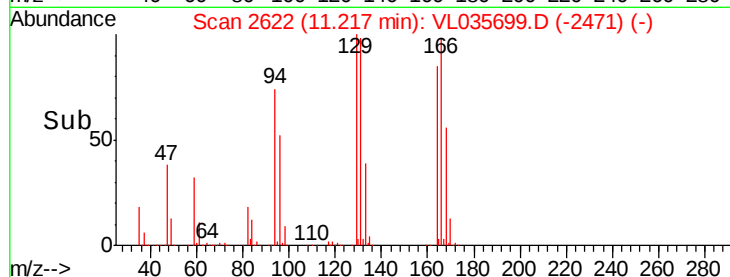
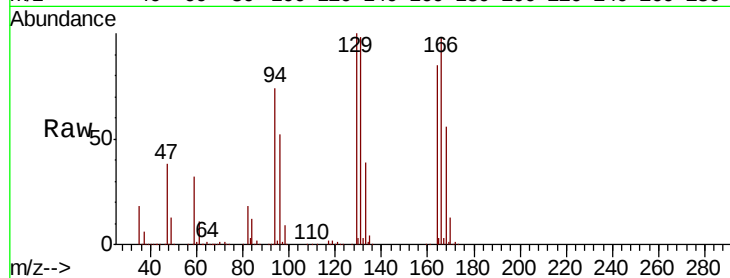
MSVOA_L

ClientSampleId :

SV-8DL2

Tot Ion:164 Resp: 7973116

Ion	Ratio	Lower	Upper
164	100		
166	115.6	100.9	151.3
129	117.4	75.3	112.9
131	115.4	73.0	109.4

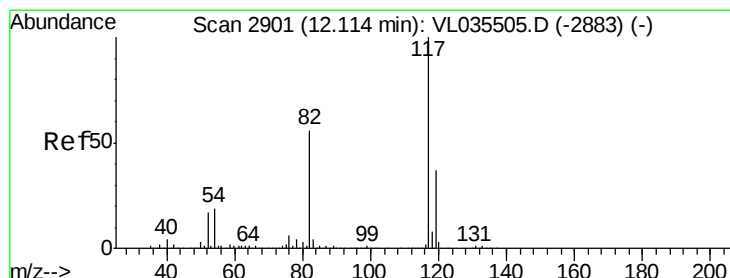


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.07 min Scan# 2888

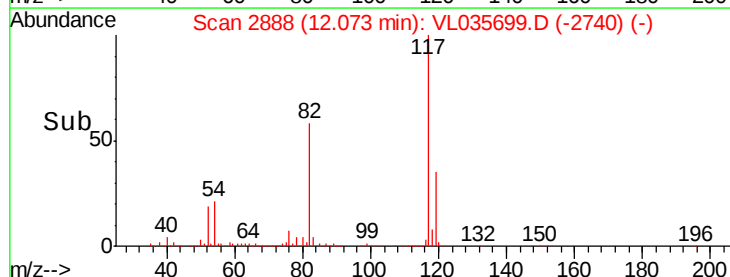
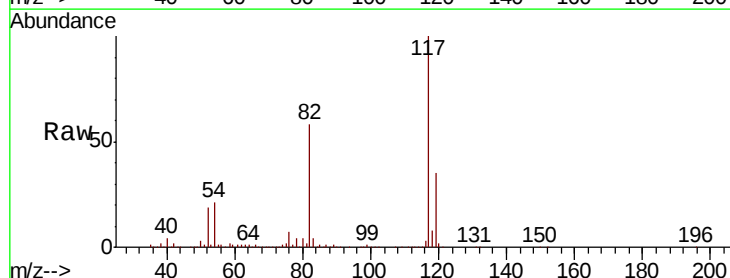
Delta R.T. -0.02 min

Lab File: VL035699.D

Acq: 21 Sep 2020 23:25

Tgt Ion:117 Resp: 3697452

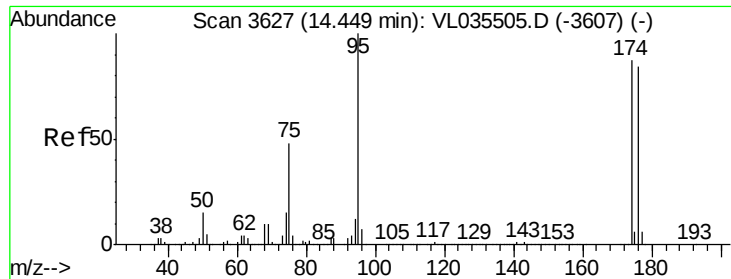
Ion	Ratio	Lower	Upper
117	100		
82	58.0	41.6	62.4
119	34.1	29.3	43.9



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

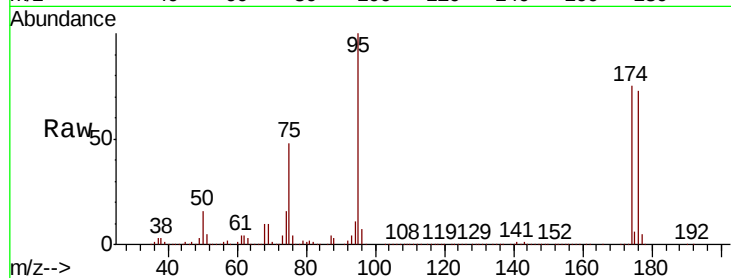
Ion 119.10 (118.80 to 119.80): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.175 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.03 min
 Lab File: VL035699.D
 Acq: 21 Sep 2020 23:25

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-8DL2

Tot Ion: 95 Resp: 2671669
 Ion Ratio Lower Upper
 95 100
 174 77.6 69.6 104.4
 175 5.6 5.1 7.7



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

