

Data File : VL034460.D
Acq On : 3 Dec 2019 14:46
Operator : SY/AP
Sample : K6068-02DL2 600X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-2DL2

Quant Time: Dec 03 15:17:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	975869	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1896091	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1898348	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.48 95 1595480 9.99 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 99.90%

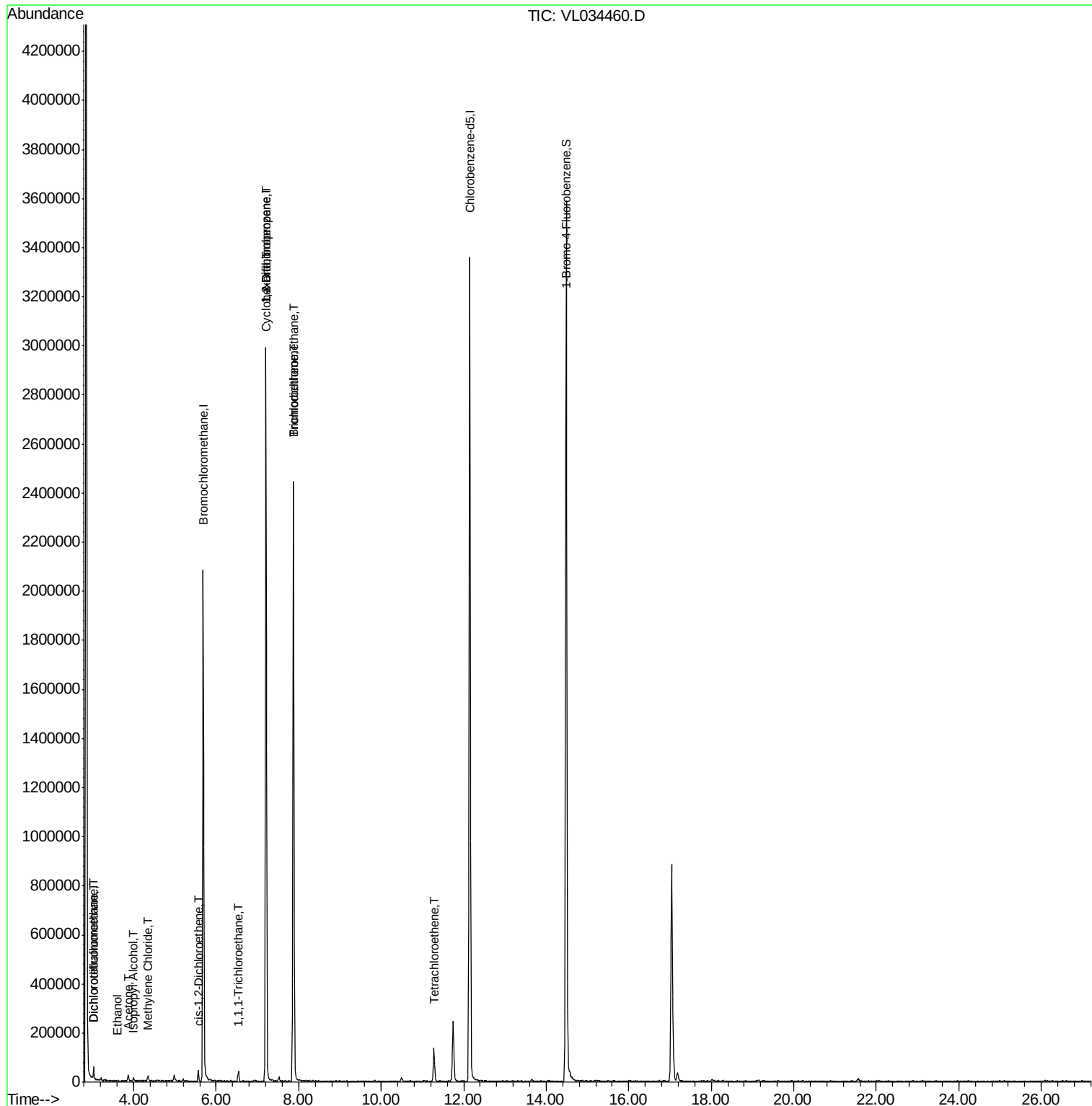
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	28314	0.160	ppbv	99
8) Dichlorotetrafluoroethane	3.03	85	28314	0.179	ppbv #	18
13) Ethanol	3.62	45	1413	0.094	ppbv	75
15) Acetone	3.87	43	23500	0.168	ppbv #	85
19) Isopropyl Alcohol	4.00	45	12334	0.138	ppbv #	96
20) Methylene Chloride	4.34	84	3488	0.070	ppbv #	64
30) Cyclohexane	7.19	84	3877	0.048	ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	25551	0.231	ppbv	91
32) 1,1,1-Trichloroethane	6.54	97	13506	0.083	ppbv #	31
38) Trichloroethene	7.87	130	685833	8.817	ppbv	97
39) 1,2-Dichloropropane	7.21	63	562760	7.707	ppbv #	23
42) Bromodichloromethane	7.87	83	8384	0.048	ppbv #	62
52) Tetrachloroethene	11.28	164	17165	0.209	ppbv	85

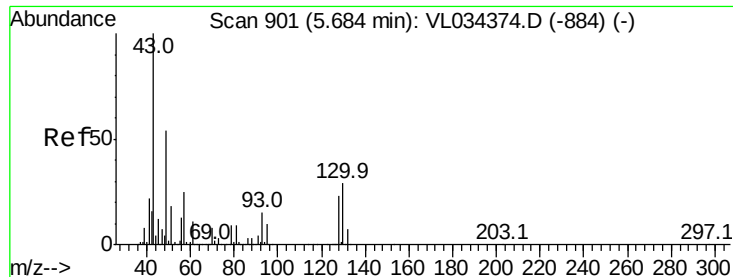
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL034460.D

Acq: 3 Dec 2019 14:46

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL2

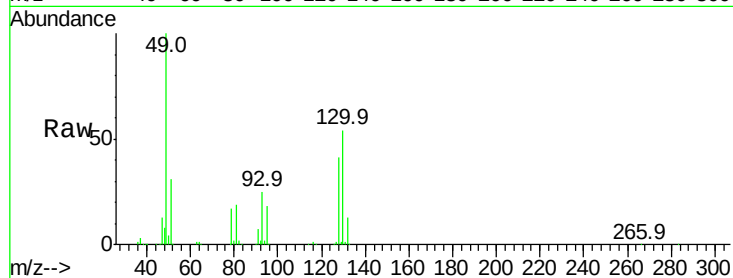
Tgt Ion: 49 Resp: 975869

Ion Ratio Lower Upper

49 100

128 42.9 21.8 65.3

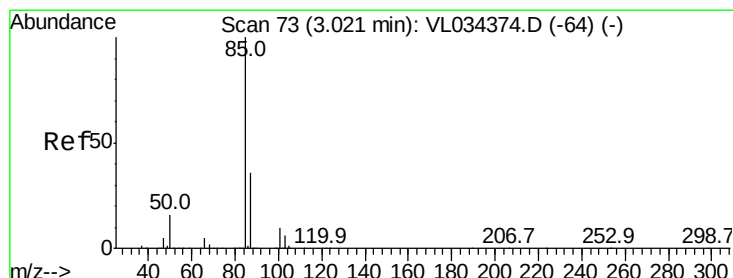
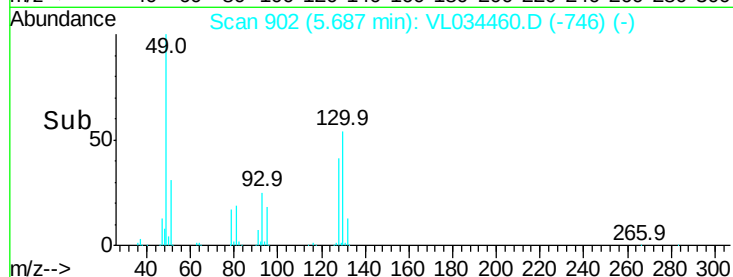
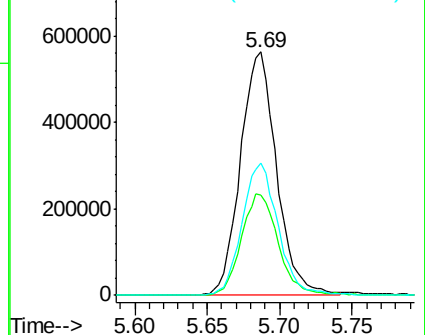
130 54.4 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.160 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.01 min

Lab File: VL034460.D

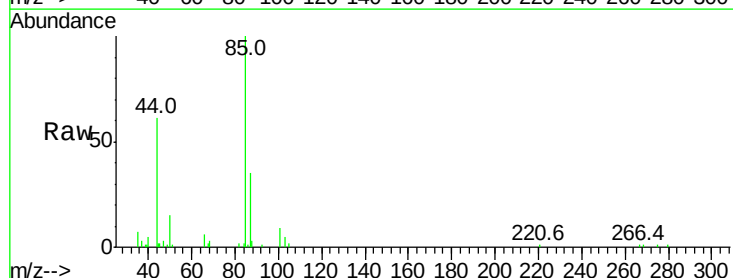
Acq: 3 Dec 2019 14:46

Tgt Ion: 85 Resp: 28314

Ion Ratio Lower Upper

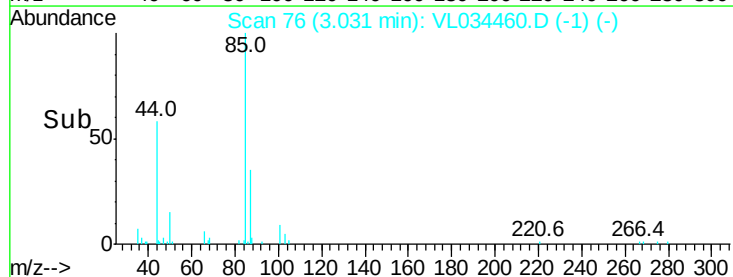
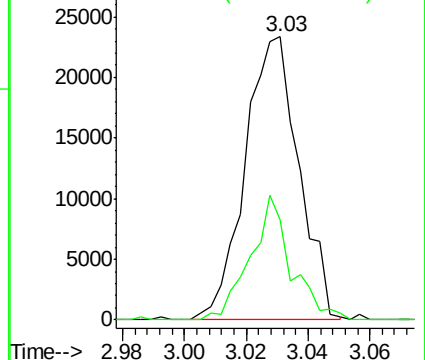
85 100

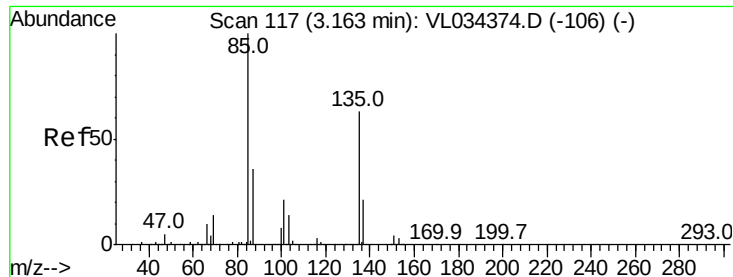
87 35.2 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.179 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.13 min

Lab File: VL034460.D

Acq: 3 Dec 2019 14:46

Instrument :

MSVOA_L

ClientSampleId :

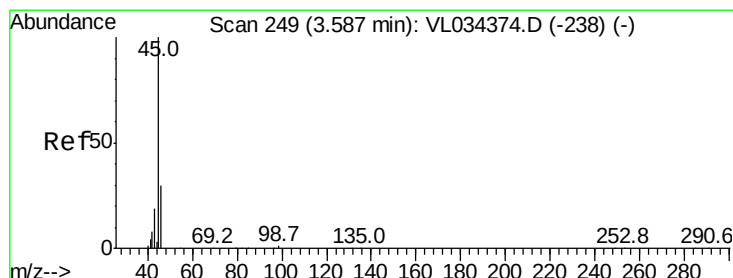
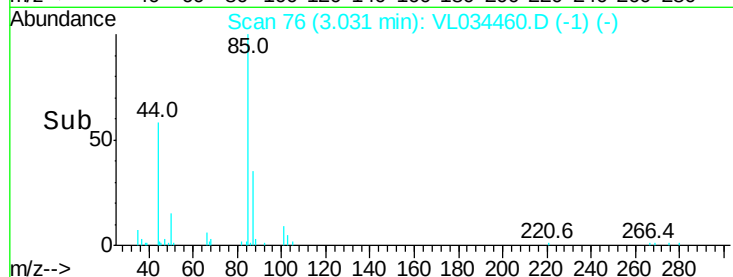
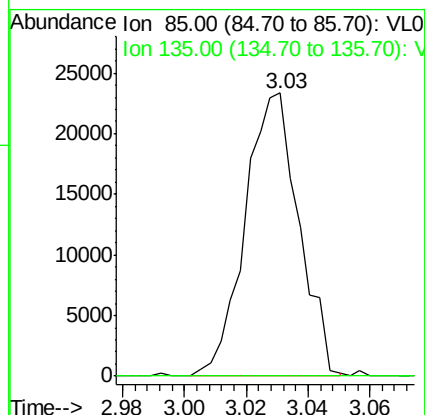
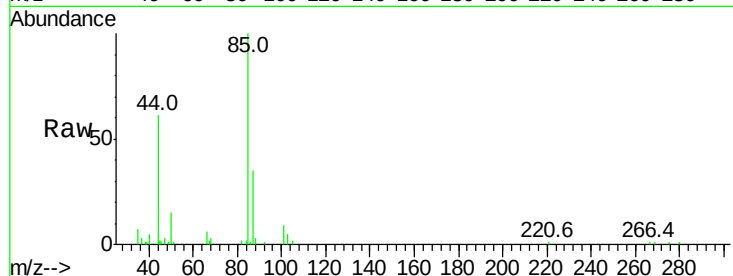
SV-2DL2

Tgt Ion: 85 Resp: 28314

Ion Ratio Lower Upper

85 100

135 0.0 51.1 76.7#



#13

Ethanol

Concen: 0.094 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.03 min

Lab File: VL034460.D

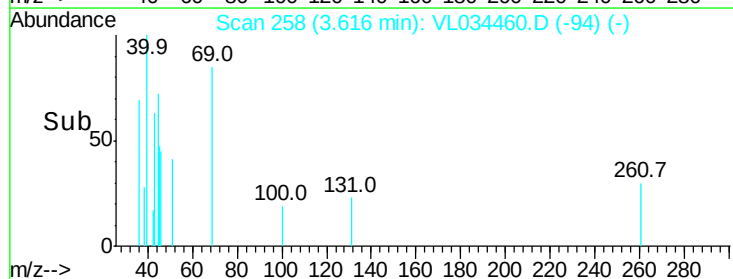
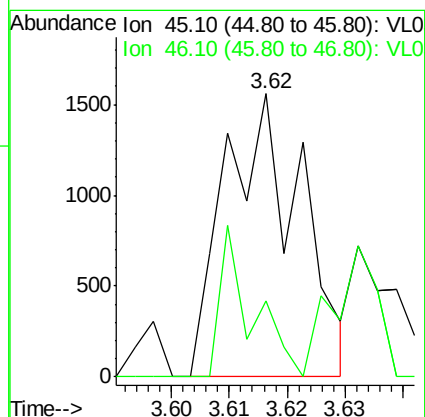
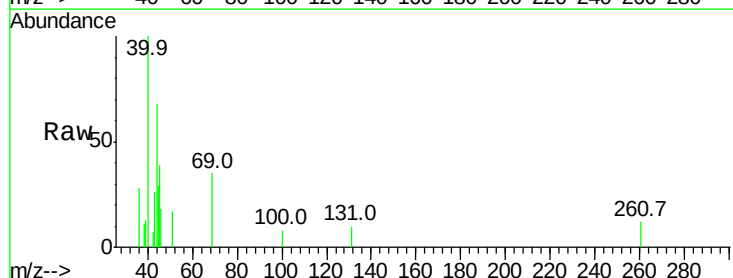
Acq: 3 Dec 2019 14:46

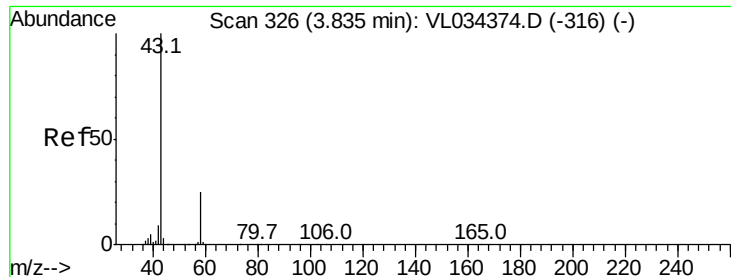
Tgt Ion: 45 Resp: 1413

Ion Ratio Lower Upper

45 100

46 49.0 13.8 55.4





#15

Acetone

Concen: 0.168 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.04 min

Lab File: VL034460.D

Acq: 3 Dec 2019 14:46

Instrument :

MSVOA_L

ClientSampleId :

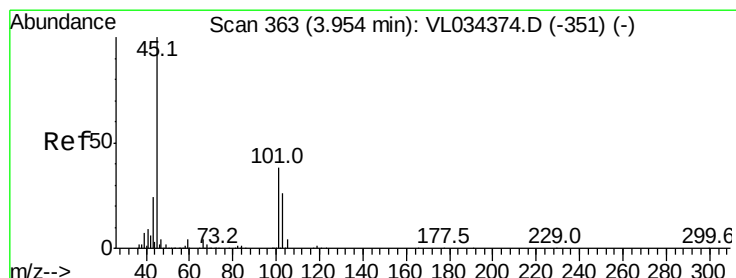
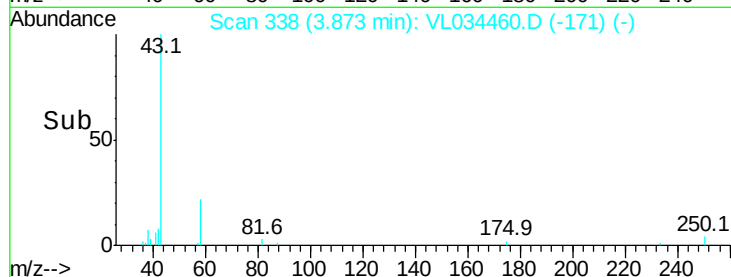
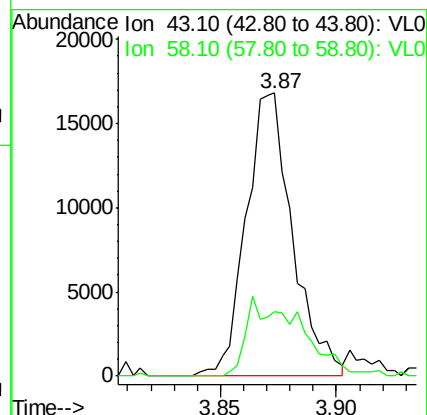
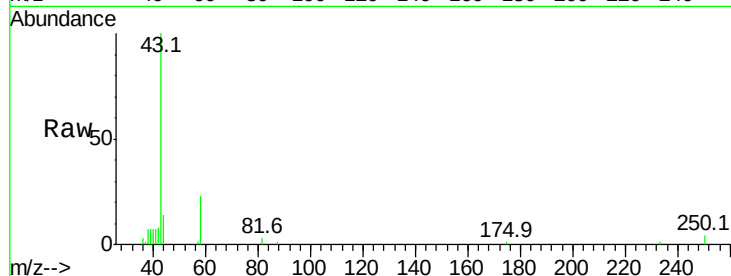
SV-2DL2

Tgt Ion: 43 Resp: 23500

Ion Ratio Lower Upper

43 100

58 32.7 20.2 30.4#



#19

Isopropyl Alcohol

Concen: 0.138 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.04 min

Lab File: VL034460.D

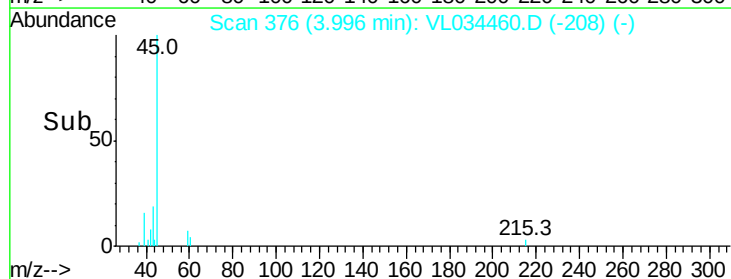
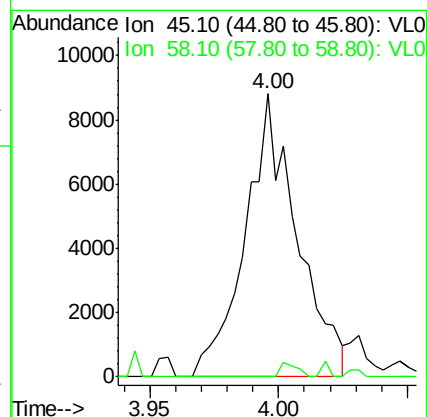
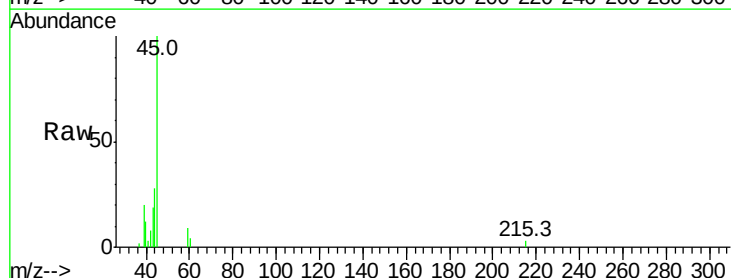
Acq: 3 Dec 2019 14:46

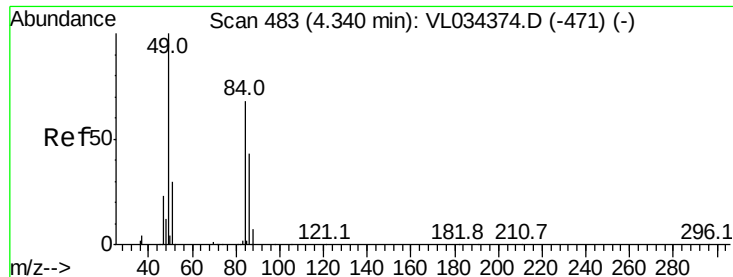
Tgt Ion: 45 Resp: 12334

Ion Ratio Lower Upper

45 100

58 0.0 1.3 1.9#

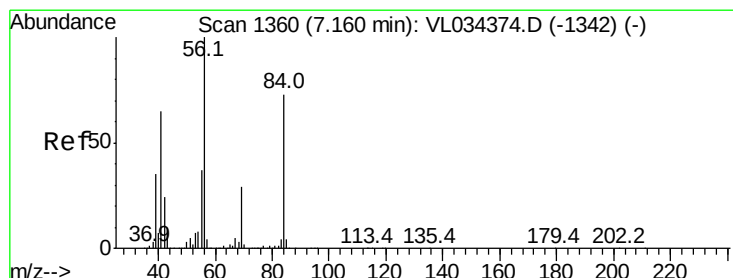
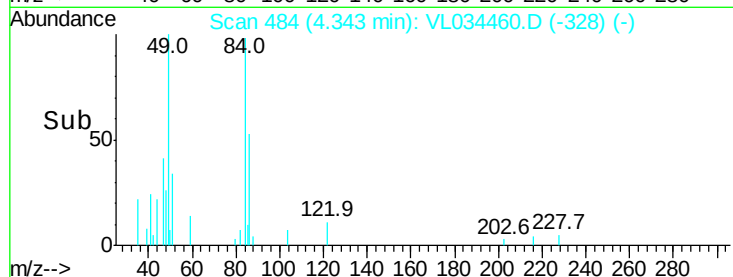
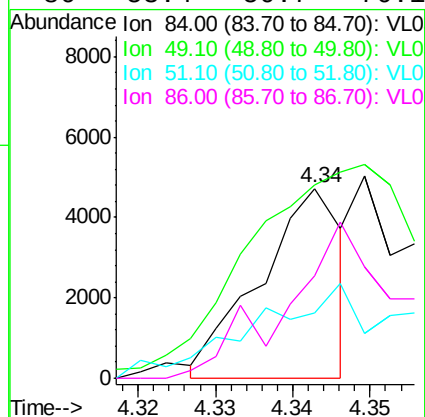
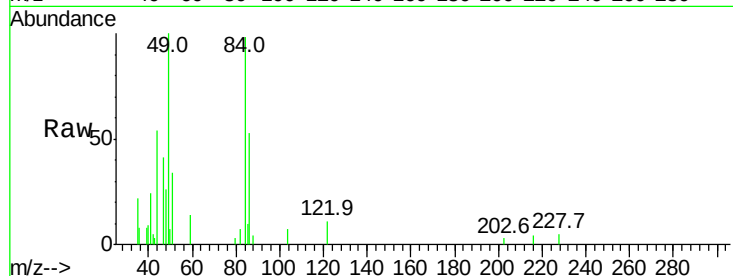




#20
Methylene Chloride
Concen: 0.070 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL034460.D
Acq: 3 Dec 2019 14:46

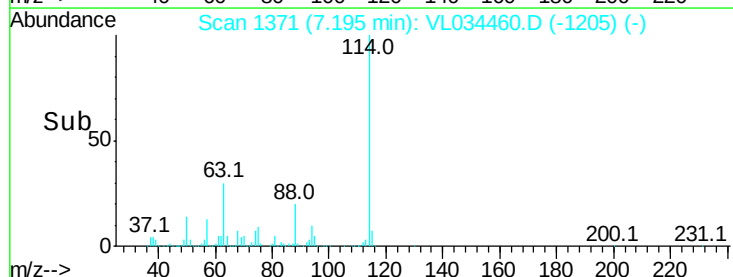
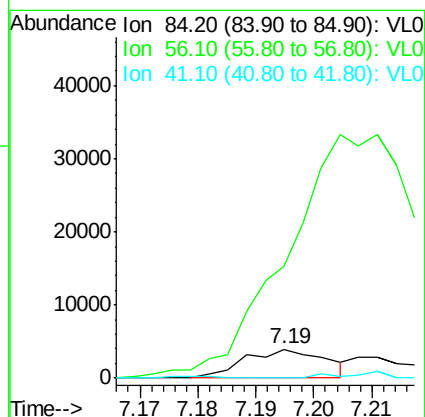
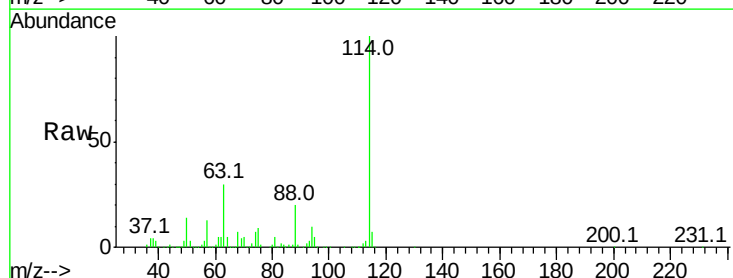
Instrument :
MSVOA_L
ClientSampleId :
SV-2DL2

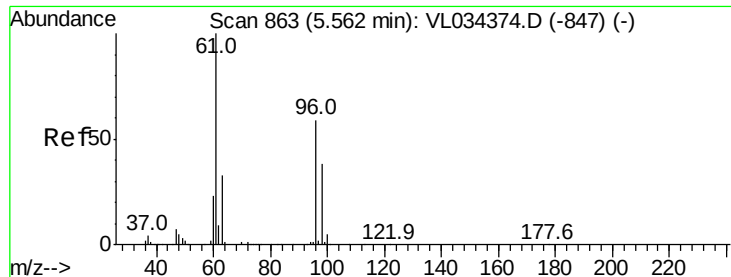
Tgt Ion: 84 Resp: 3488
Ion Ratio Lower Upper
84 100
49 86.5 116.8 175.2#
51 25.2 35.6 53.4#
86 53.4 50.7 76.1



#30
Cyclohexane
Concen: 0.048 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. 0.04 min
Lab File: VL034460.D
Acq: 3 Dec 2019 14:46

Tgt Ion: 84 Resp: 3877
Ion Ratio Lower Upper
84 100
56 0.0 112.6 169.0#
41 3.9 73.4 110.2#



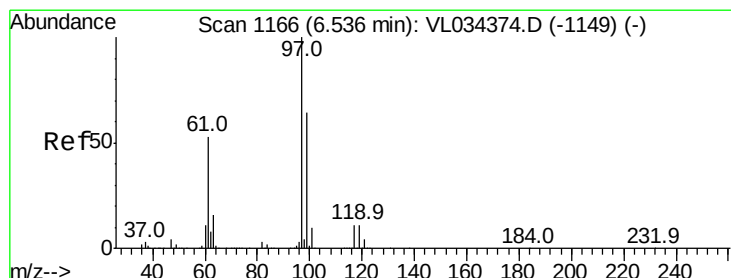
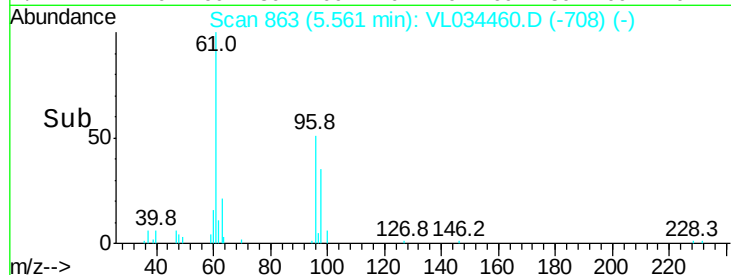
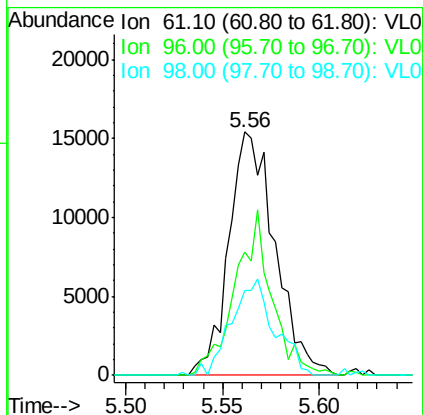
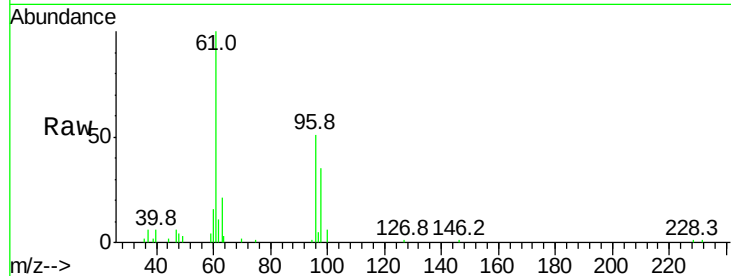


#31

cis-1,2-Dichloroethene
 Concen: 0.231 ppbv
 RT: 5.56 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VL034460.D
 Acq: 3 Dec 2019 14:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2DL2

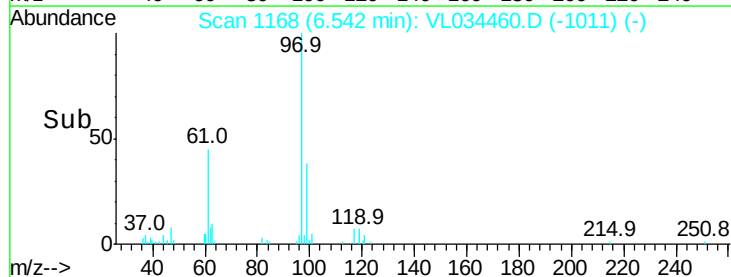
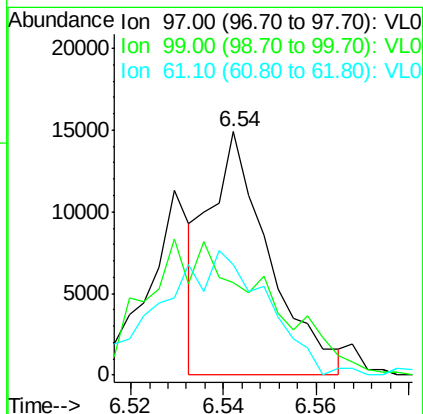
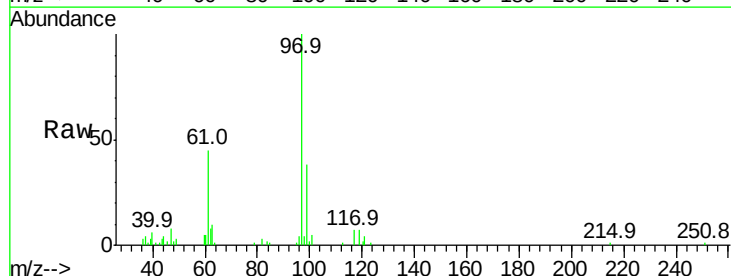
Tgt Ion	Ratio	Lower	Upper
61	100		
96	50.8	47.4	71.2
98	34.6	30.6	45.8

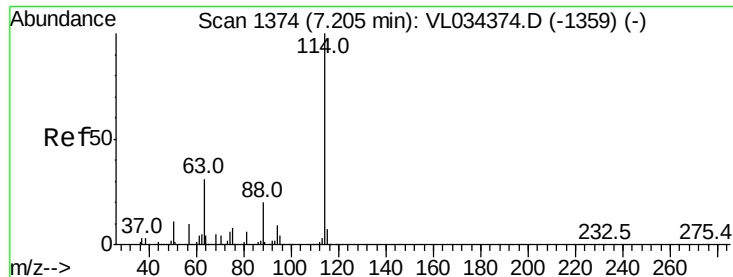


#32

1,1,1-Trichloroethane
 Concen: 0.083 ppbv
 RT: 6.54 min Scan# 1168
 Delta R.T. 0.01 min
 Lab File: VL034460.D
 Acq: 3 Dec 2019 14:46

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	92.2	43.7	65.5#

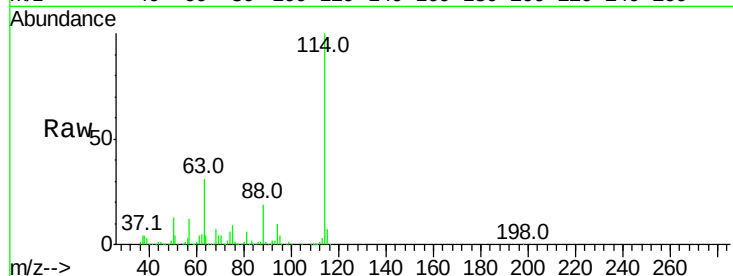




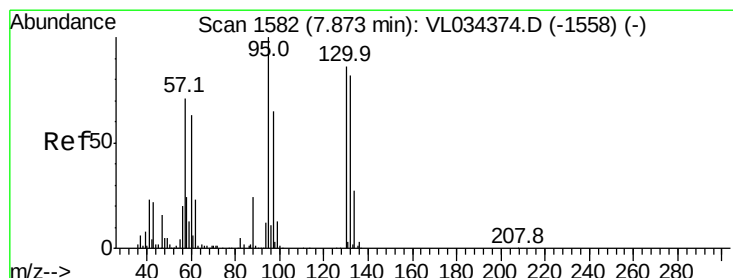
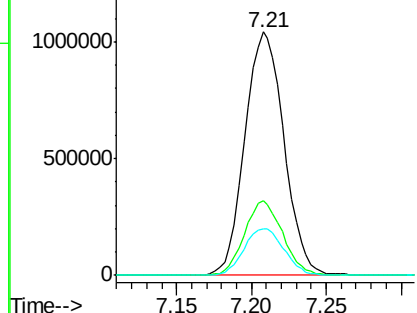
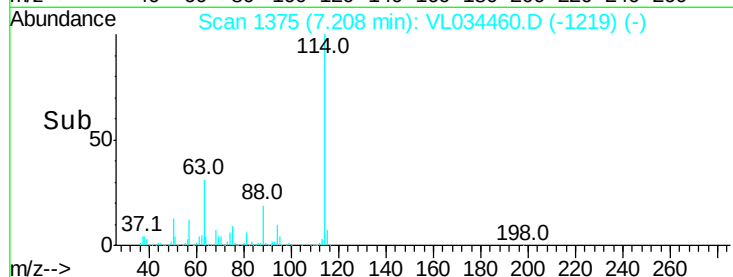
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1375
Delta R.T. 0.00 min
Lab File: VL034460.D
Acq: 3 Dec 2019 14:46

Instrument :
MSVOA_L
ClientSampleId :
SV-2DL2

Tgt Ion:114 Resp: 1896091
Ion Ratio Lower Upper
114 100
63 30.0 24.2 36.4
88 19.7 15.9 23.9

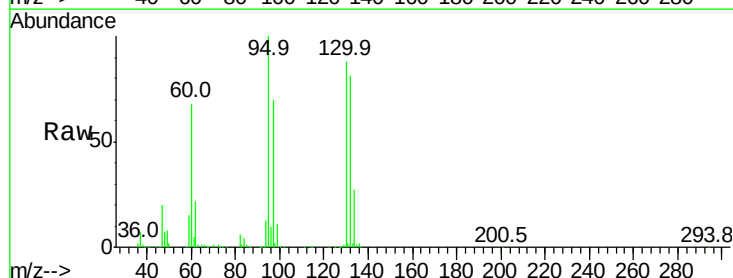


Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

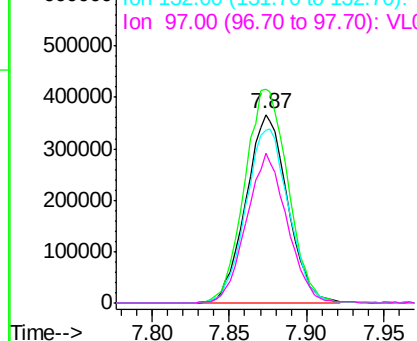
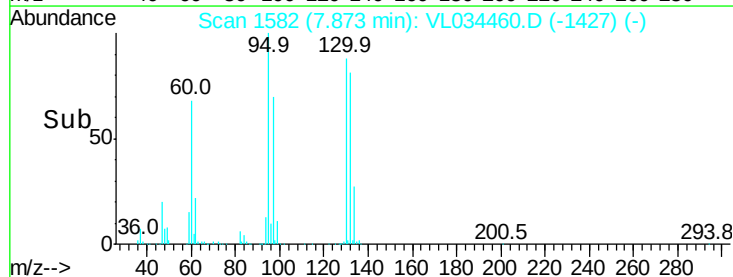


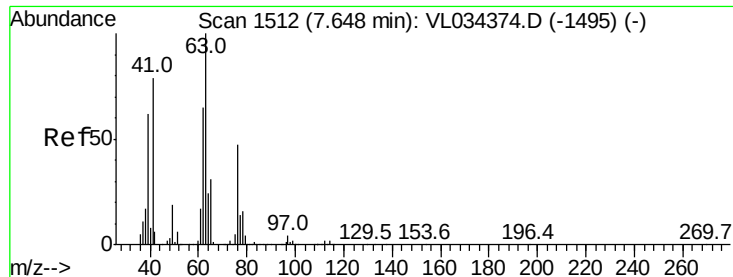
#38
Trichloroethene
Concen: 8.817 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL034460.D
Acq: 3 Dec 2019 14:46

Tgt Ion:130 Resp: 685833
Ion Ratio Lower Upper
130 100
95 113.4 93.4 140.0
132 92.1 76.4 114.6
97 79.7 61.1 91.7



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: 7.707 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. -0.44 min

Lab File: VL034460.D

Acq: 3 Dec 2019 14:46

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL2

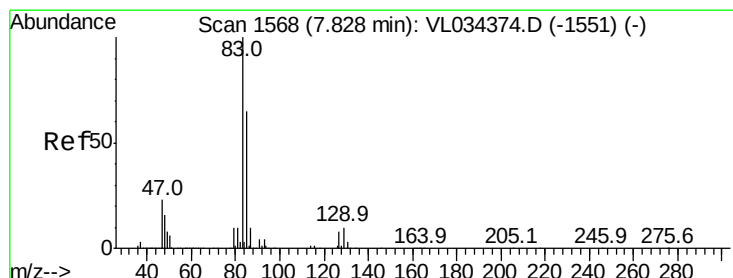
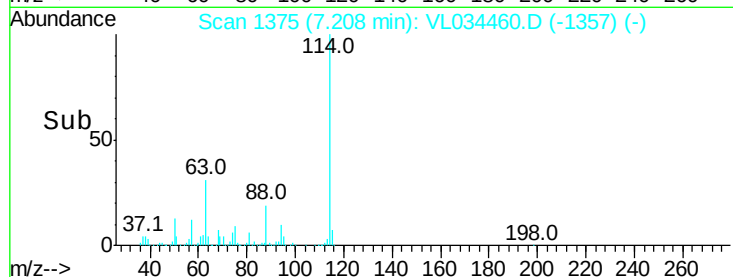
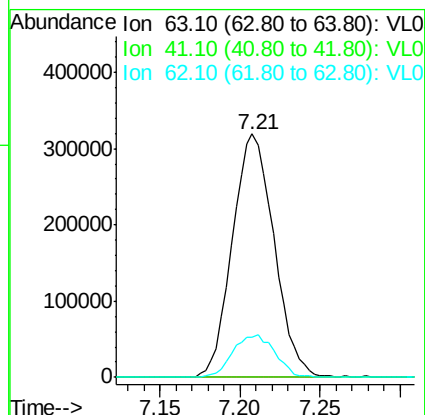
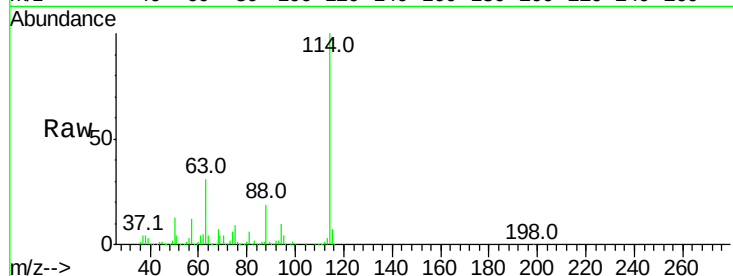
Tgt Ion: 63 Resp: 562760

Ion Ratio Lower Upper

63 100

41 0.1 63.1 94.7#

62 16.1 52.3 78.5#



#42

Bromodichloromethane

Concen: 0.048 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.04 min

Lab File: VL034460.D

Acq: 3 Dec 2019 14:46

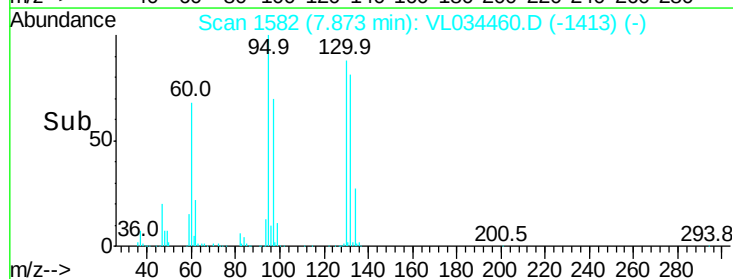
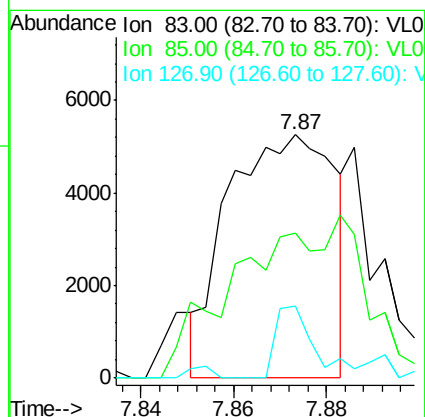
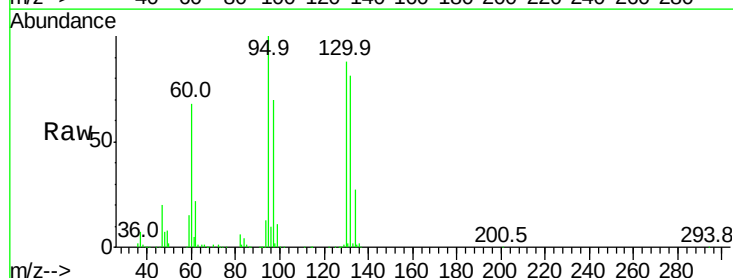
Tgt Ion: 83 Resp: 8384

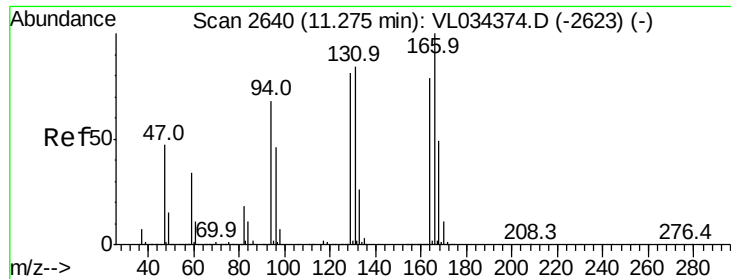
Ion Ratio Lower Upper

83 100

85 39.5 52.3 78.5#

127 35.5 6.1 9.1#





#52

Tetrachloroethene

Concen: 0.209 ppbv

RT: 11.28 min Scan# 2643

Delta R.T. 0.01 min

Lab File: VL034460.D

Acq: 3 Dec 2019 14:46

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL2

Tgt Ion:164 Resp: 17165

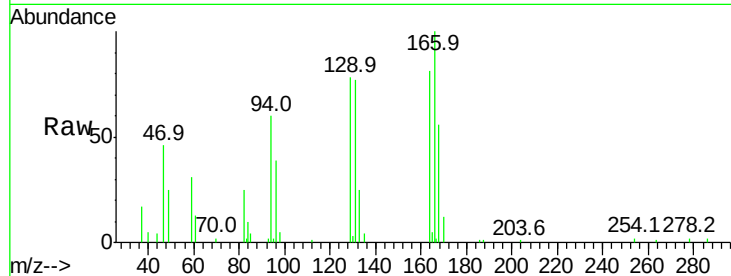
Ion Ratio Lower Upper

164 100

166 103.8 101.7 152.5

129 93.6 82.6 123.8

131 90.7 85.2 127.8

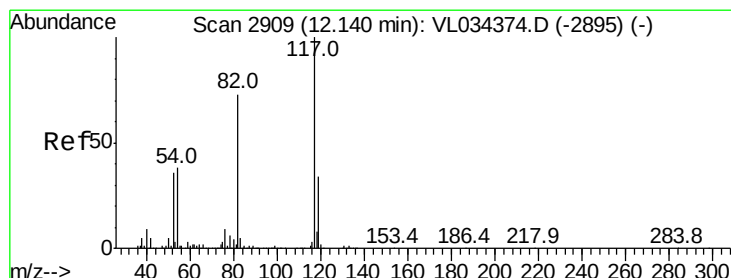
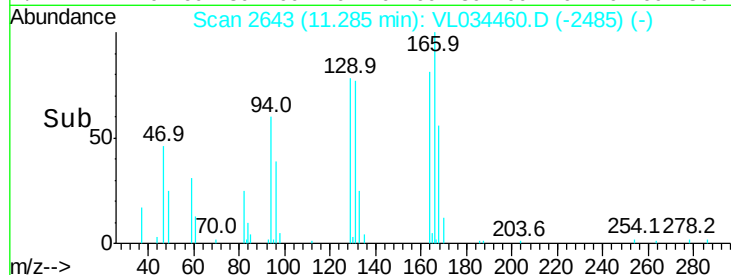
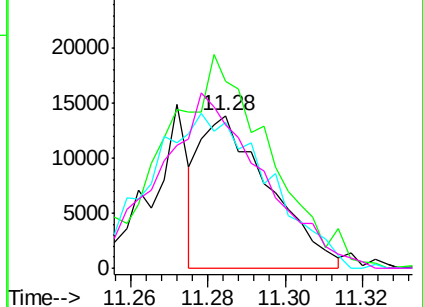


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.15 min Scan# 2911

Delta R.T. 0.01 min

Lab File: VL034460.D

Acq: 3 Dec 2019 14:46

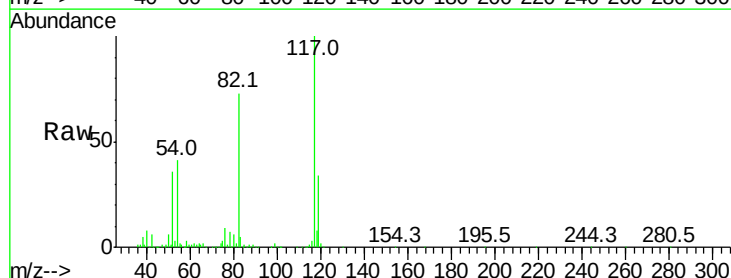
Tgt Ion:117 Resp: 1898348

Ion Ratio Lower Upper

117 100

82 71.9 57.5 86.3

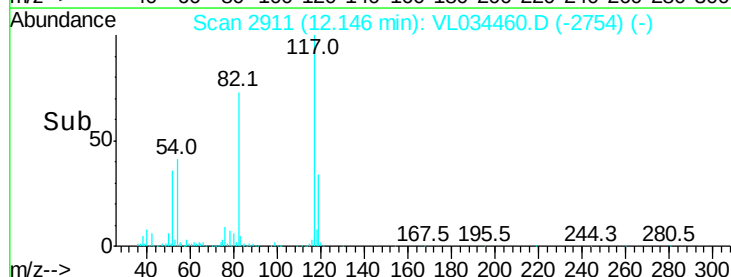
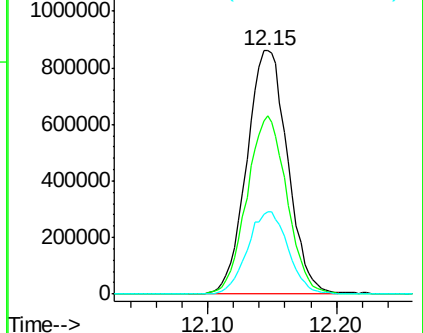
119 33.9 25.4 38.2

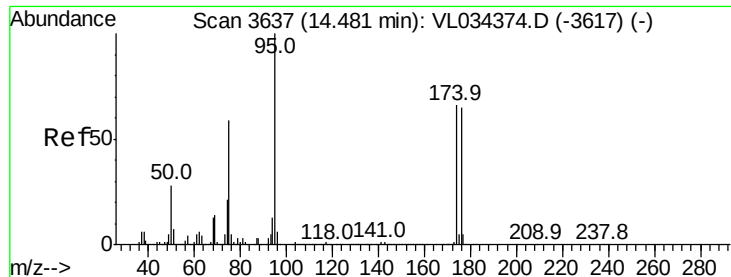


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.990 ppbv

RT: 14.48 min Scan# 3638

Delta R.T. 0.00 min

Lab File: VL034460.D

Acq: 3 Dec 2019 14:46

Instrument :

MSVOA_L

ClientSampleId :

SV-2DL2

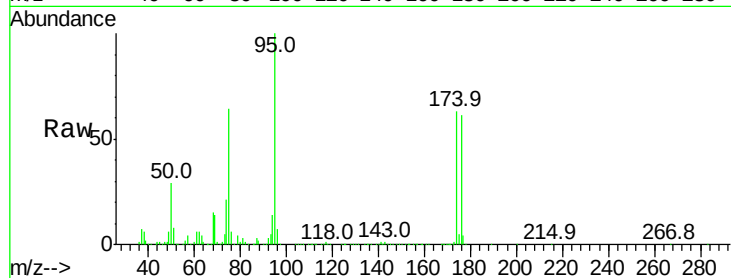
Tgt Ion: 95 Resp: 1595480

Ion Ratio Lower Upper

95 100

174 63.7 52.2 78.2

175 4.6 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

