

Data File : VV011538.D
Acq On : 15 Jun 2019 14:37
Operator : SY/MD
Sample : K3386-03
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
COM79

Quant Time: Jun 17 04:36:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 17 04:30:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	12059	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	4623	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	1005	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	11936	13.12	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	262.40%#
7) Chloroethane-d5	1.60	69	339	0.59	ug/L	0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	11.80%#
11) 1,1-Dichloroethene-d2	2.08	63	13889	8.01	ug/L	-0.04
Spiked Amount	5.000	Range	60 - 125	Recovery	=	160.20%#
20) 2-Butanone-d5	3.96	46	64943	253.49	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	506.98%#
24) Chloroform-d	4.40	84	9814	5.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.00%
26) 1,2-Dichloroethane-d4	5.08	65	6623	6.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	137.00%#
32) Benzene-d6	5.09	84	17825	12.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	258.40%#
36) 1,2-Dichloropropane-d6	6.11	67	5865	13.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	267.80%#
41) Toluene-d8	7.36	98	8605	7.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	140.00%#
43) trans-1,3-Dichloropropene-	7.67	79	1167	8.01	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	160.20%#
46) 2-Hexanone-d5	8.15	63	31982	380.41	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	760.82%#
57) 1,1,2,2-Tetrachloroethane-	10.27	84	5764	17.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	351.20%#
64) 1,2-Dichlorobenzene-d4	11.68	152	1243	6.20	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	124.00%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.13	85	128	0.119 ug/L #	71
3) Chloromethane	1.25	50	1454	1.248 ug/L	94
6) Bromomethane	1.52	94	101	0.210 ug/L	74
8) Chloroethane	1.32	64	631	1.132 ug/L	89
9) Trichlorofluoromethane	1.55	101	228	0.180 ug/L	88
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	67	0.093 ug/L #	33
13) Acetone	2.21	43	2122	12.291 ug/L	82
15) Methyl Acetate	2.43	43	16293	35.599 ug/L #	56
16) Methylene chloride	2.51	84	259	0.304 ug/L #	60
21) 2-Butanone	4.05	43	375	1.373 ug/L	88
22) cis-1,2-Dichloroethene	3.96	96	124	0.129 ug/L	77
25) Chloroform	4.41	83	217	0.123 ug/L	78
34) Trichloroethene	5.95	95	2618	6.799 ug/L	91
37) 1,2-Dichloropropane	6.25	63	75	0.187 ug/L #	86
40) 4-Methyl-2-pentanone	7.27	43	212	0.740 ug/L #	46
42) Toluene	7.44	91	346	0.221 ug/L	89
45) 1,1,2-Trichloroethane	7.98	97	249	0.928 ug/L #	14

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 17 04:30:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.15	43	4608	22.877	ug/L #	73
50) 1,2-Dibromoethane	8.33	107	44	0.181	ug/L #	6
52) Ethylbenzene	9.04	91	163	0.099	ug/L #	44
54) o-xylene	9.58	106	140	0.232	ug/L #	31
55) Styrene	9.62	104	105	0.105	ug/L #	70
58) 1,1,2,2-Tetrachloroethane	10.03	83	44	0.134	ug/L #	25
59) 1,2,3-Trichloropropane	10.42	75	391	1.558	ug/L	89
66) 1,2-Dibromo-3-chloropropan	12.30	75	171	7.179	ug/L #	6

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

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Operator : SY/MD

Sample : K3386-03

Misc : 25ML/MSVOA_V/WATER

```
ALS Vial      : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
C0M79

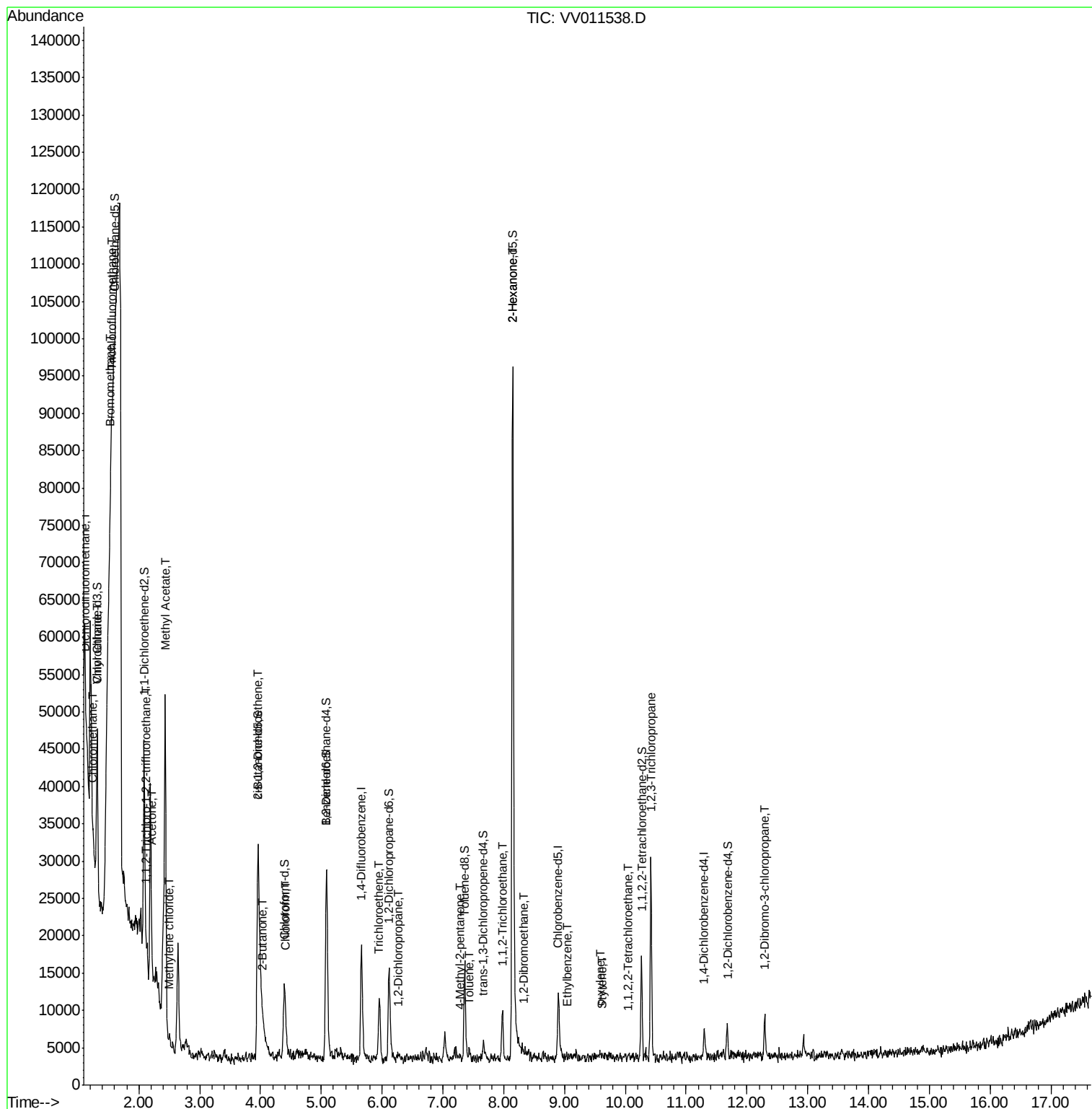
Quant Time: Jun 17 04:36:30 2019

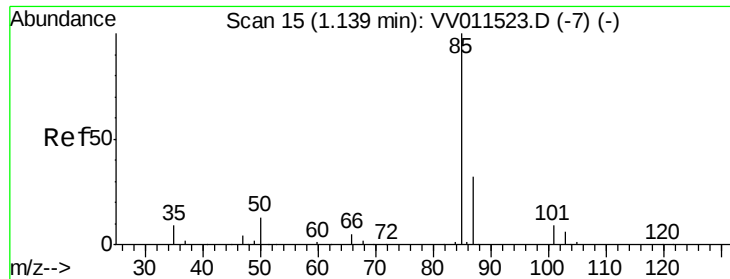
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Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Jun 17 04:30:15 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.119 ug/L

RT: 1.13 min Scan# 13

Delta R.T. -0.01 min

Lab File: VV011538.D

Acq: 15 Jun 2019 14:37

Instrument :

MSVOA_V

ClientSampleId :

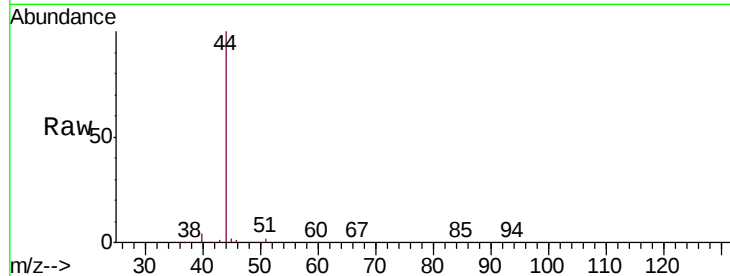
COM79

Tgt Ion: 85 Resp: 128

Ion Ratio Lower Upper

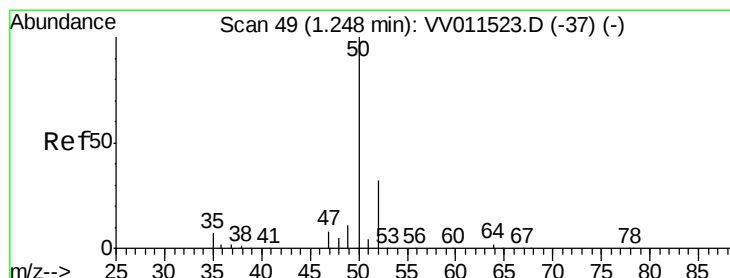
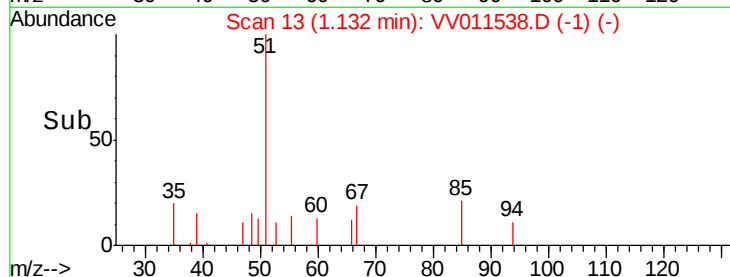
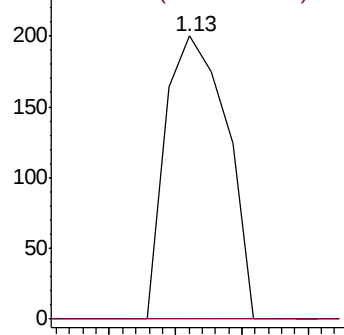
85 100

87 16.4 25.9 38.9#



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 1.248 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011538.D

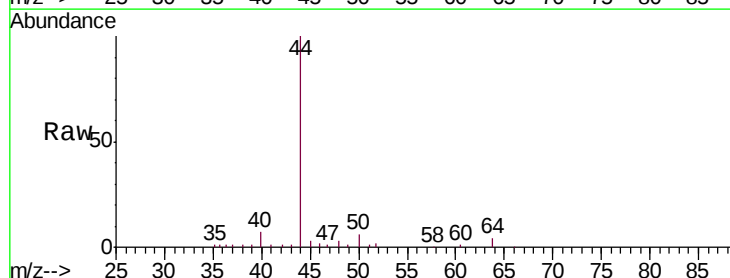
Acq: 15 Jun 2019 14:37

Tgt Ion: 50 Resp: 1454

Ion Ratio Lower Upper

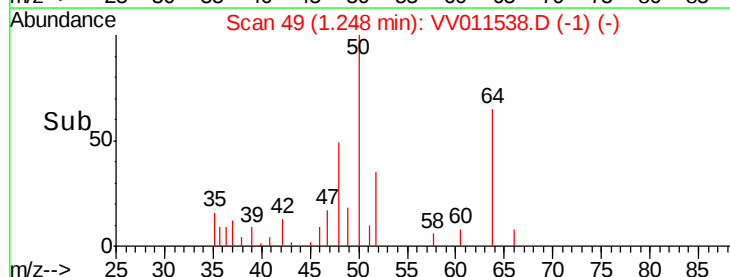
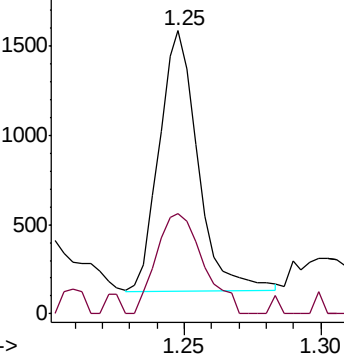
50 100

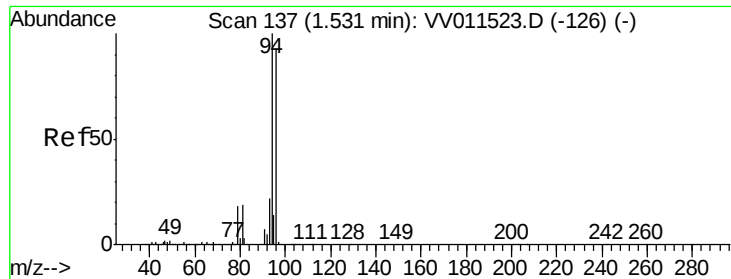
52 35.5 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#6

Bromomethane

Concen: 0.210 ug/L

RT: 1.52 min Scan# 135

Delta R.T. -0.01 min

Lab File: VV011538.D

Acq: 15 Jun 2019 14:37

Instrument :

MSVOA_V

ClientSampled :

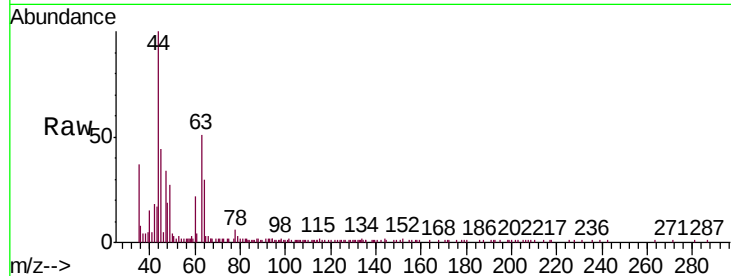
COM79

Tgt Ion: 94 Resp: 101

Ion Ratio Lower Upper

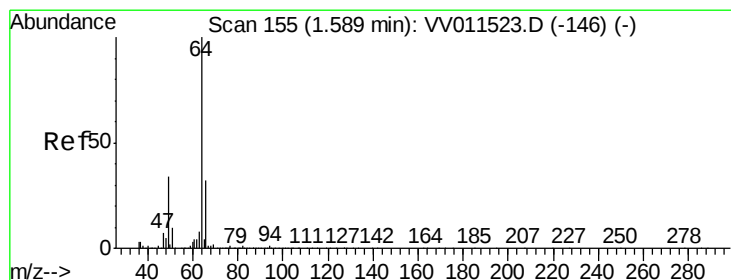
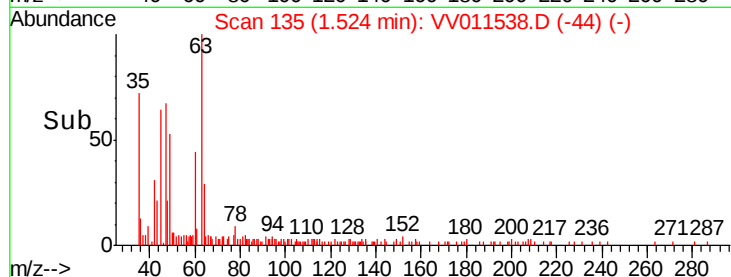
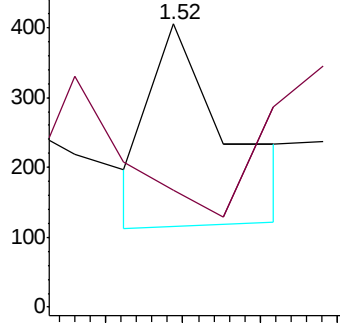
94 100

96 68.6 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



#8

Chloroethane

Concen: 1.132 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.27 min

Lab File: VV011538.D

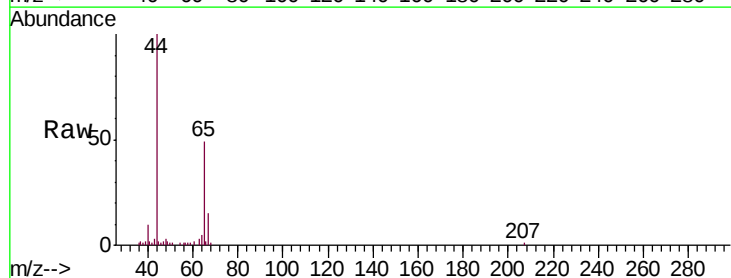
Acq: 15 Jun 2019 14:37

Tgt Ion: 64 Resp: 631

Ion Ratio Lower Upper

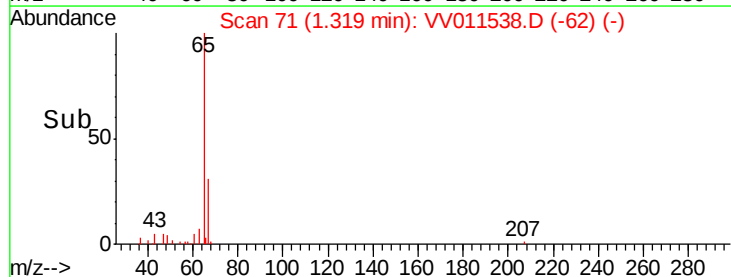
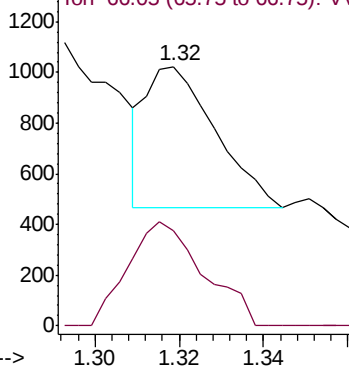
64 100

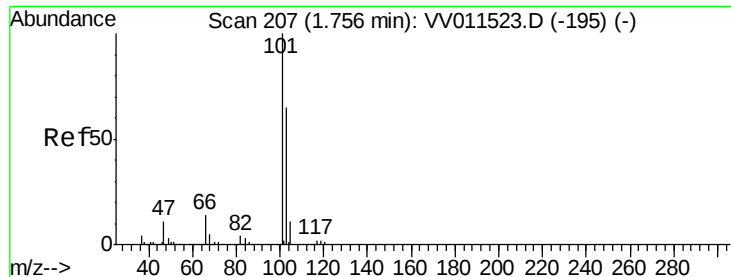
66 36.7 21.6 40.2



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0



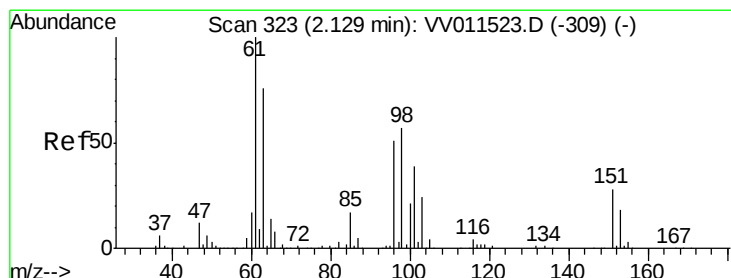
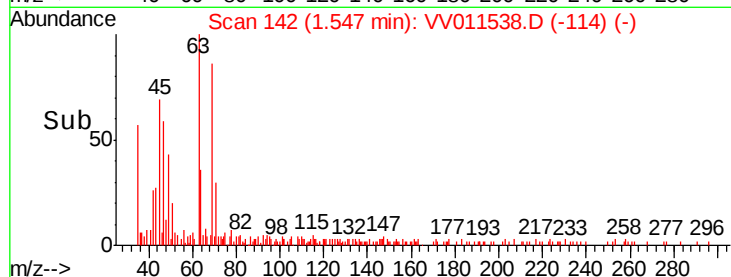
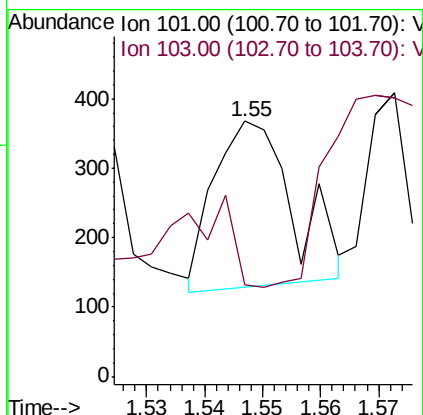
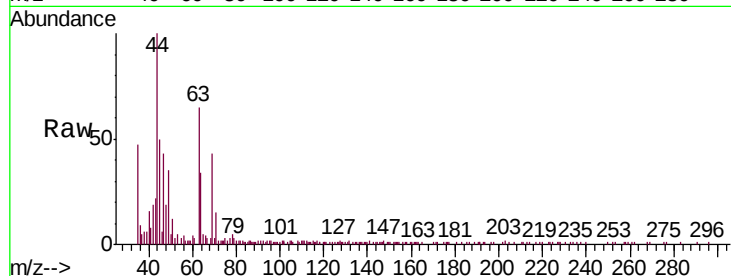


#9

Trichlorofluoromethane
 Concen: 0.180 ug/L
 RT: 1.55 min Scan# 142
 Delta R.T. -0.21 min
 Lab File: VV011538.D
 Acq: 15 Jun 2019 14:37

Instrument :
 MSVOA_V
 ClientSampled :
 COM79

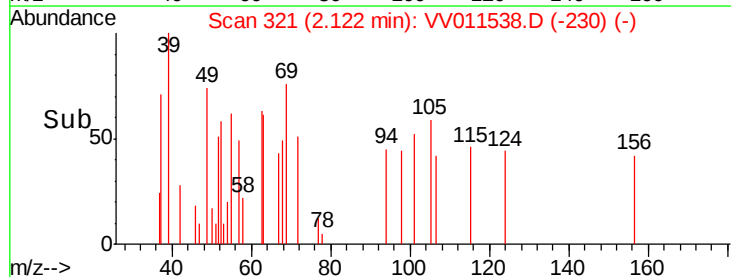
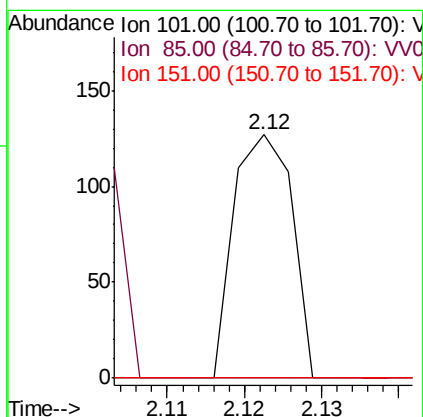
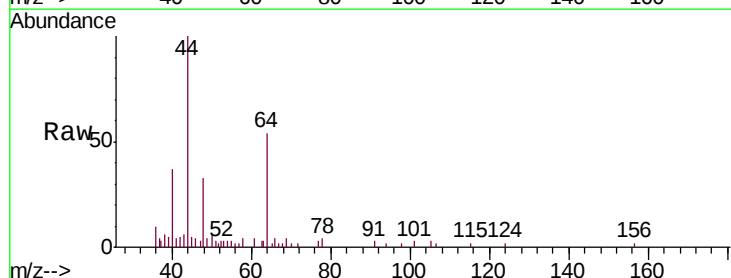
Tgt Ion:101 Resp: 228
 Ion Ratio Lower Upper
 101 100
 103 56.1 52.5 78.7

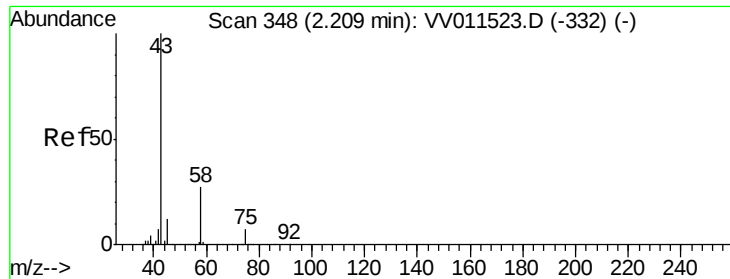


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.093 ug/L
 RT: 2.12 min Scan# 321
 Delta R.T. -0.01 min
 Lab File: VV011538.D
 Acq: 15 Jun 2019 14:37

Tgt Ion:101 Resp: 67
 Ion Ratio Lower Upper
 101 100
 85 68.7 37.3 55.9#
 151 0.0 59.4 89.2#





#13

Acetone

Concen: 12.291 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.00 min

Lab File: VV011538.D

Acq: 15 Jun 2019 14:37

Instrument :

MSVOA_V

ClientSampleId :

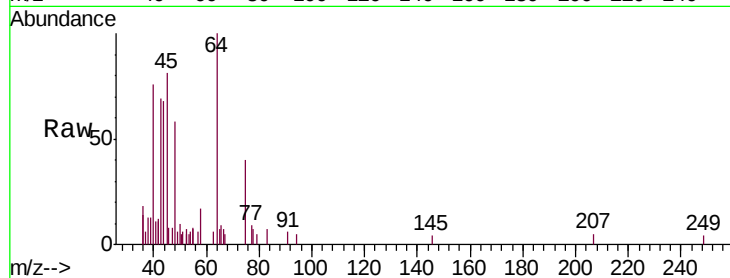
COM79

Tgt Ion: 43 Resp: 2122

Ion Ratio Lower Upper

43 100

58 38.7 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.21

1500

1000

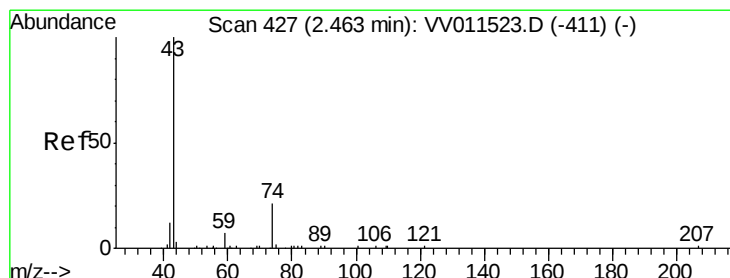
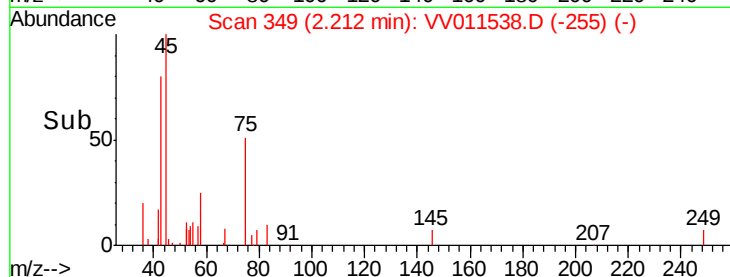
500

0

Time-->

2.20

2.25



#15

Methyl Acetate

Concen: 35.599 ug/L

RT: 2.43 min Scan# 418

Delta R.T. -0.03 min

Lab File: VV011538.D

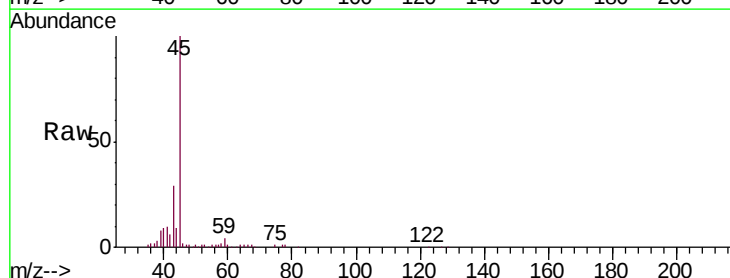
Acq: 15 Jun 2019 14:37

Tgt Ion: 43 Resp: 16293

Ion Ratio Lower Upper

43 100

74 0.3 16.5 24.7#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.43

8000

6000

4000

2000

0

Time-->

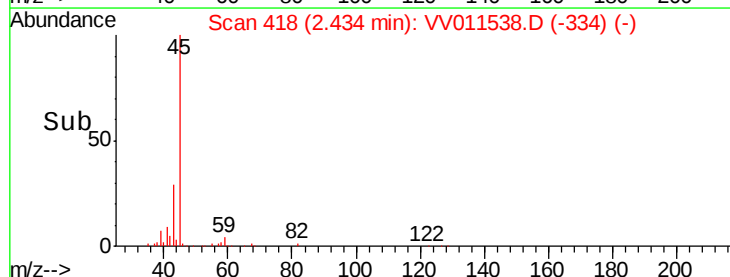
2.30

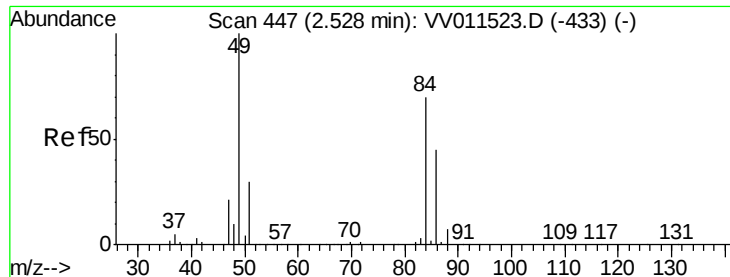
2.35

2.40

2.45

2.50

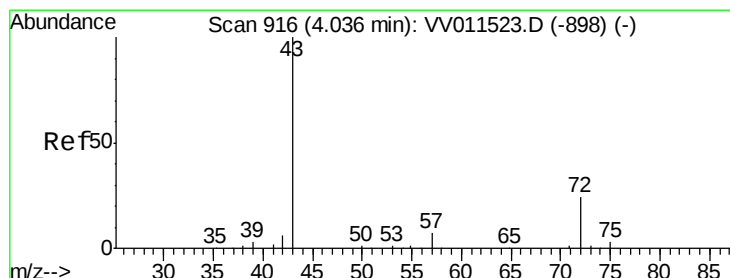
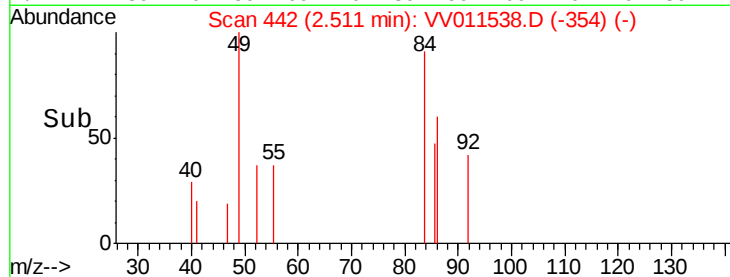
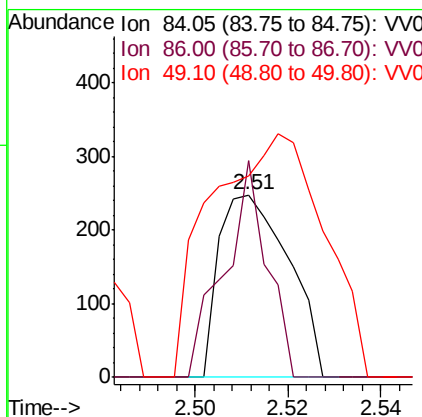
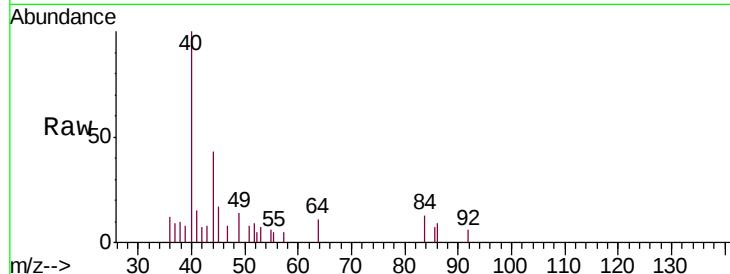




#16
Methylene chloride
Concen: 0.304 ug/L
RT: 2.51 min Scan# 442
Delta R.T. -0.02 min
Lab File: VV011538.D
Acq: 15 Jun 2019 14:37

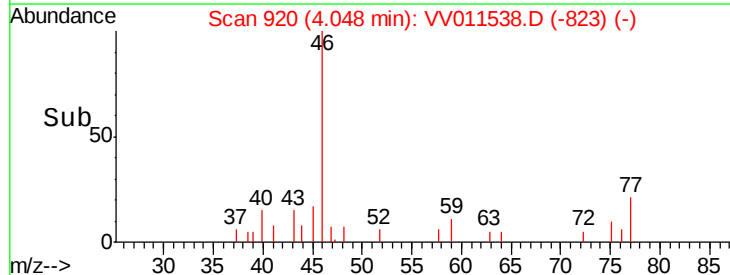
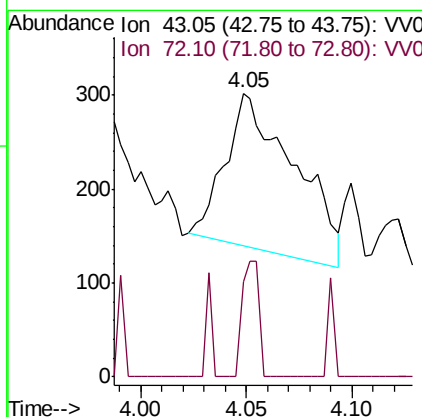
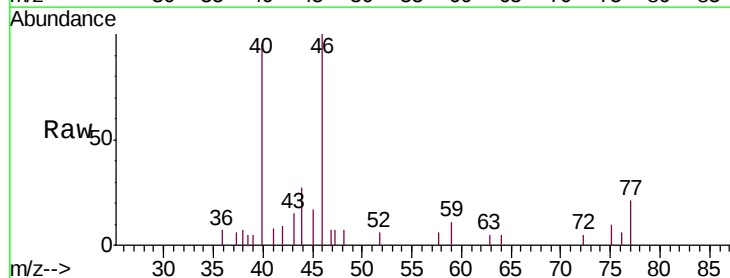
Instrument :
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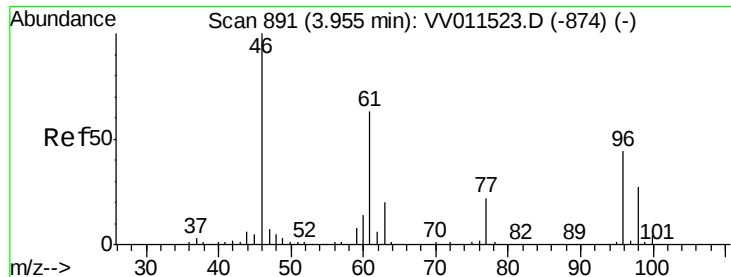
Tgt Ion: 84 Resp: 259
Ion Ratio Lower Upper
84 100
86 118.5 42.5 78.9#
49 110.5 97.7 181.5



#21
2-Butanone
Concen: 1.373 ug/L
RT: 4.05 min Scan# 920
Delta R.T. 0.01 min
Lab File: VV011538.D
Acq: 15 Jun 2019 14:37

Tgt Ion: 43 Resp: 375
Ion Ratio Lower Upper
43 100
72 17.9 11.8 35.4



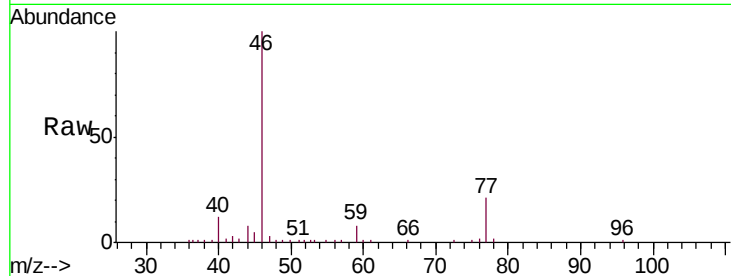


#22

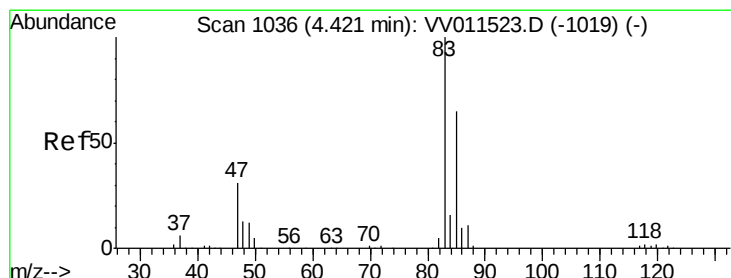
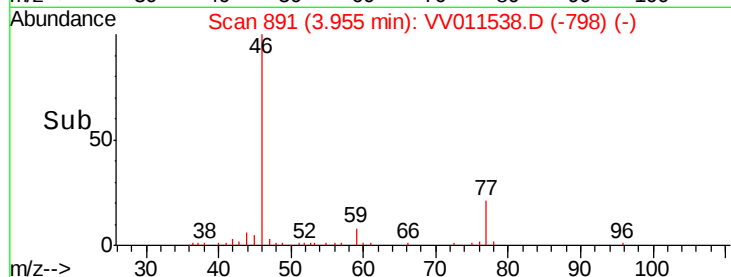
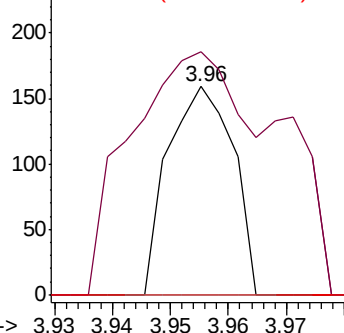
cis-1,2-Dichloroethene
 Concen: 0.129 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VV011538.D
 Acq: 15 Jun 2019 14:37

Instrument :
 MSVOA_V
 ClientSampleId :
 COM79

Tgt Ion: 96 Resp: 124
 Ion Ratio Lower Upper
 96 100
 61 117.0 102.2 189.8
 68 0.0 0.0 0.0



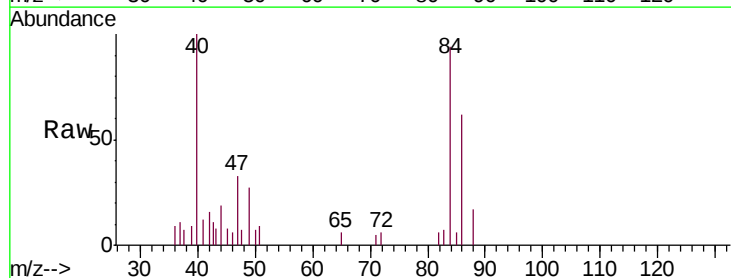
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



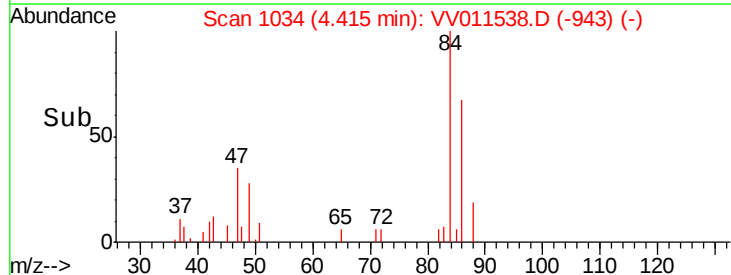
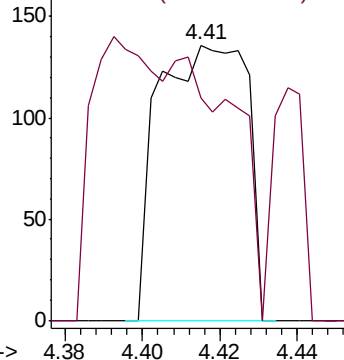
#25

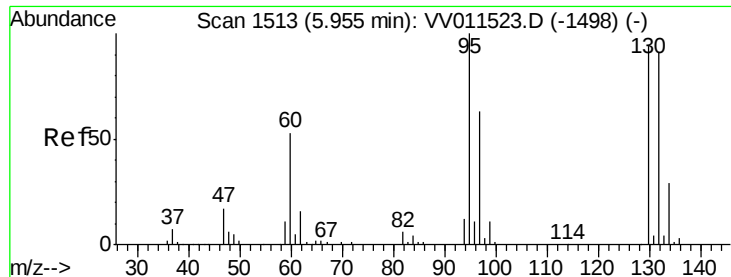
Chloroform
 Concen: 0.123 ug/L
 RT: 4.41 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: VV011538.D
 Acq: 15 Jun 2019 14:37

Tgt Ion: 83 Resp: 217
 Ion Ratio Lower Upper
 83 100
 85 80.9 44.6 82.8



Abundance Ion 83.05 (82.75 to 83.75): VV0
 Ion 85.00 (84.70 to 85.70): VV0





#34

Trichloroethene

Concen: 6.799 ug/L

RT: 5.95 min Scan# 1512

Delta R.T. -0.00 min

Lab File: VV011538.D

Acq: 15 Jun 2019 14:37

Instrument :

MSVOA_V

ClientSampleId :

COM79

Tgt Ion: 95 Resp: 2618

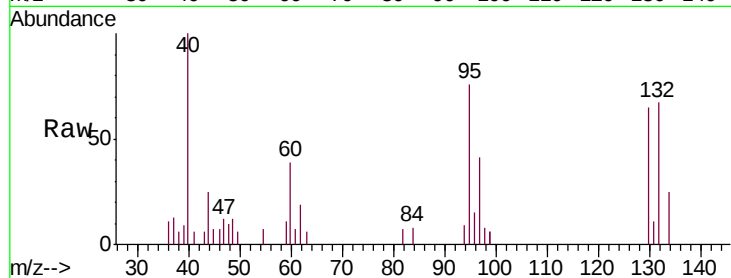
Ion Ratio Lower Upper

95 100

97 53.9 44.4 82.4

132 88.4 63.5 117.9

130 85.9 68.5 127.3

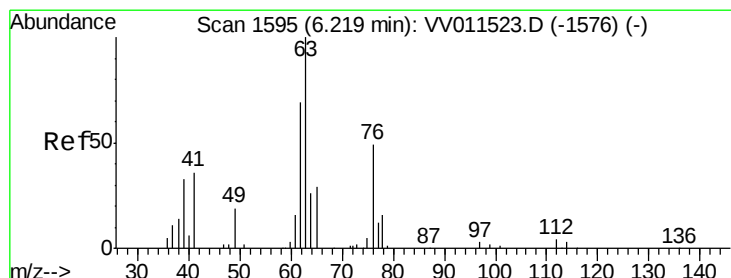
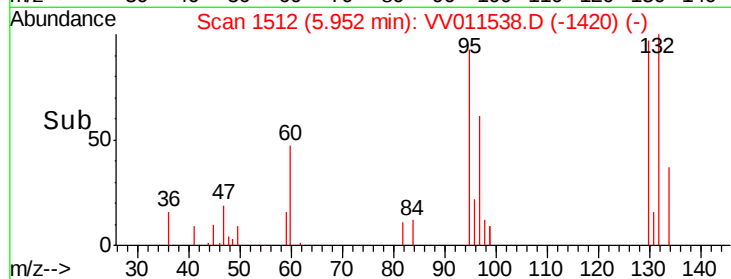
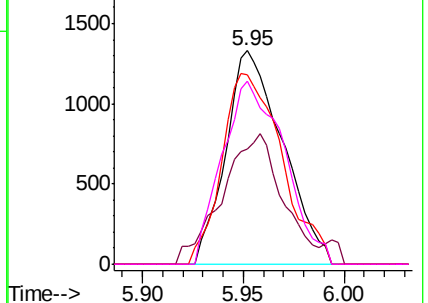


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#37

1,2-Dichloropropane

Concen: 0.187 ug/L

RT: 6.25 min Scan# 1606

Delta R.T. 0.04 min

Lab File: VV011538.D

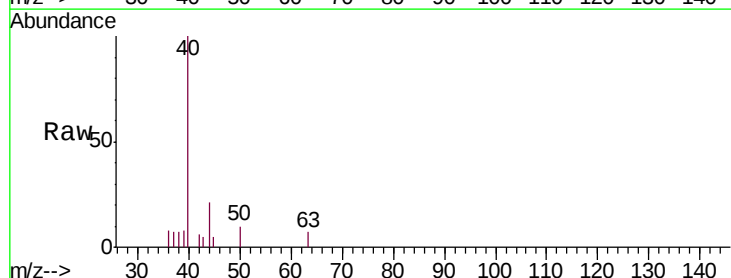
Acq: 15 Jun 2019 14:37

Tgt Ion: 63 Resp: 75

Ion Ratio Lower Upper

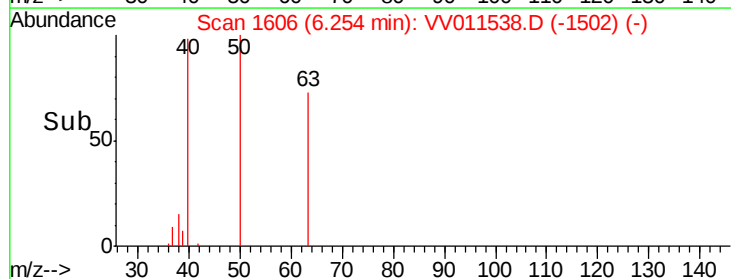
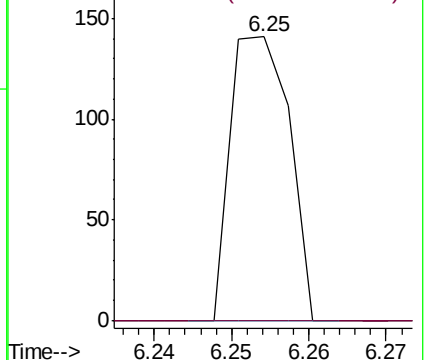
63 100

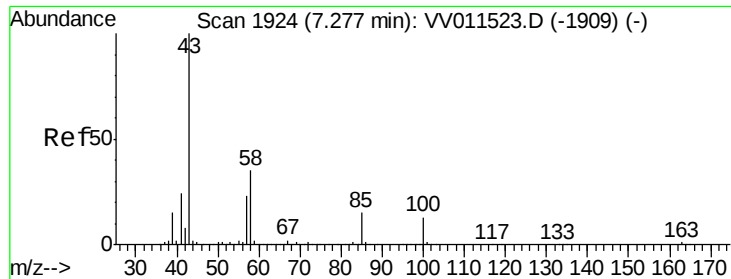
112 0.0 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V

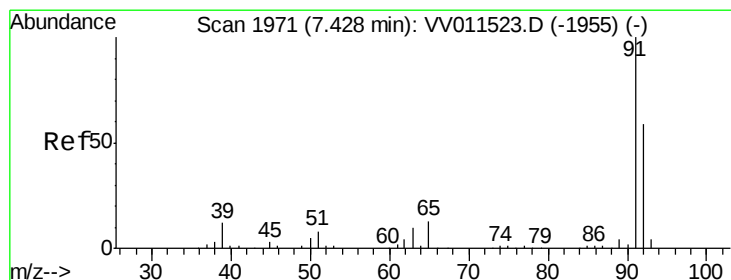
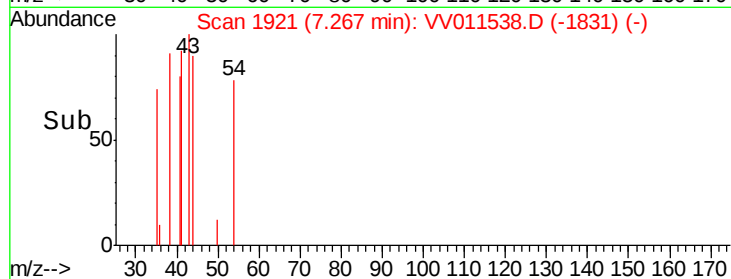
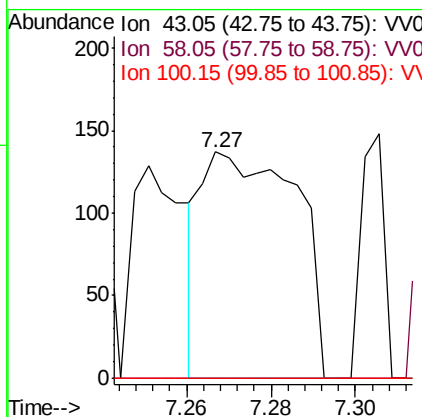
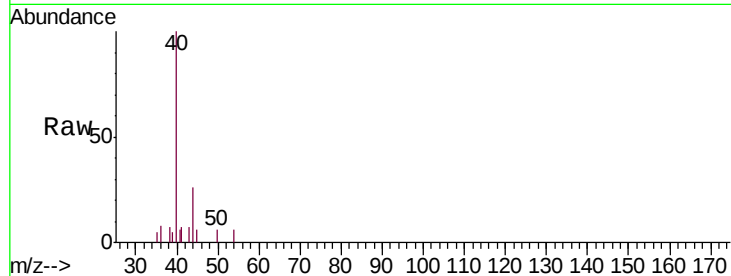




#40
 4-Methyl-2-pentanone
 Concen: 0.740 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.01 min
 Lab File: VV011538.D
 Acq: 15 Jun 2019 14:37

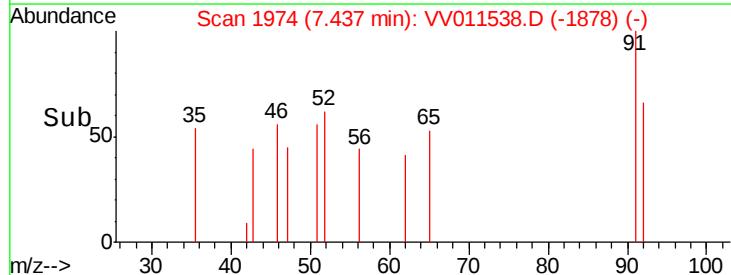
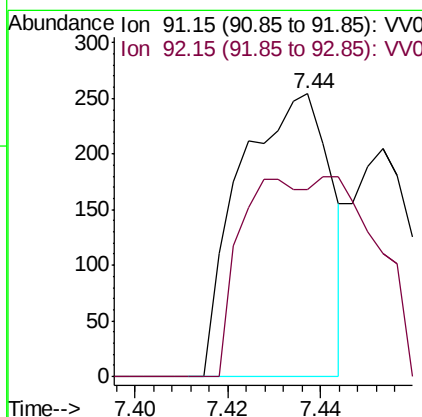
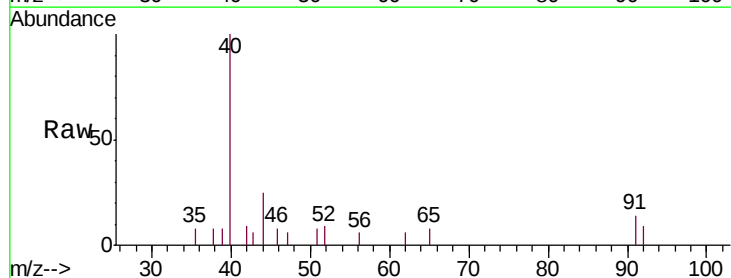
Instrument :
 MSVOA_V
 ClientSampleId :
 COM79

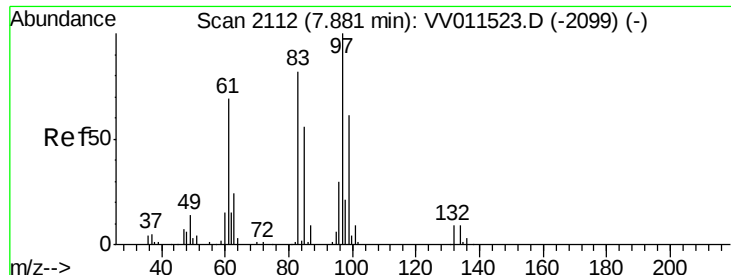
Tgt Ion: 43 Resp: 212
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.7 43.1#
 100 0.0 10.6 15.8#



#42
 Toluene
 Concen: 0.221 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. 0.01 min
 Lab File: VV011538.D
 Acq: 15 Jun 2019 14:37

Tgt Ion: 91 Resp: 346
 Ion Ratio Lower Upper
 91 100
 92 66.1 40.5 75.1

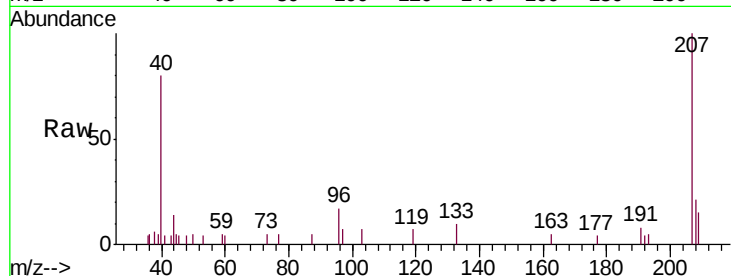




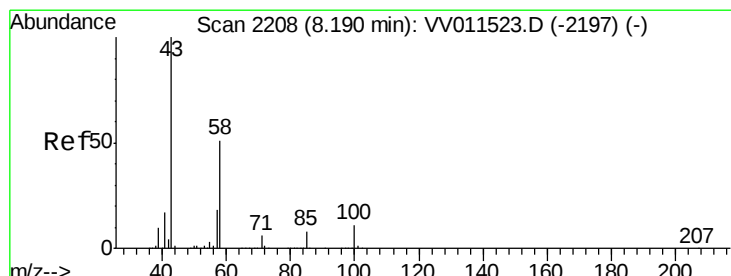
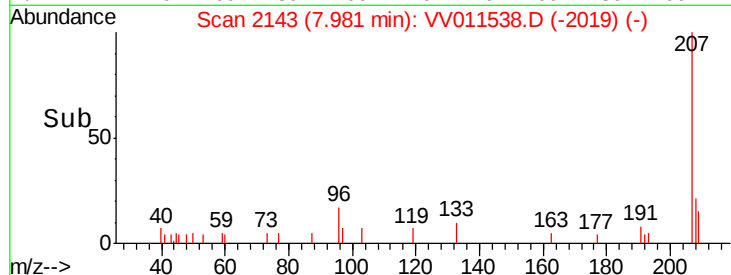
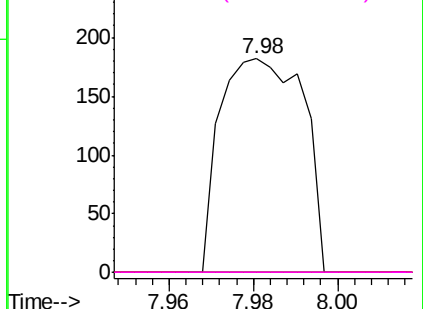
#45
 1,1,2-Trichloroethane
 Concen: 0.928 ug/L
 RT: 7.98 min Scan# 2143
 Delta R.T. 0.10 min
 Lab File: VV011538.D
 Acq: 15 Jun 2019 14:37

Instrument :
 MSVOA_V
 ClientSampleId :
 COM79

Tgt Ion:	97	Resp:	249
Ion	Ratio	Lower	Upper
97	100		
99	0.0	45.4	84.4#
83	0.0	60.6	112.6#
85	0.0	38.6	71.6#

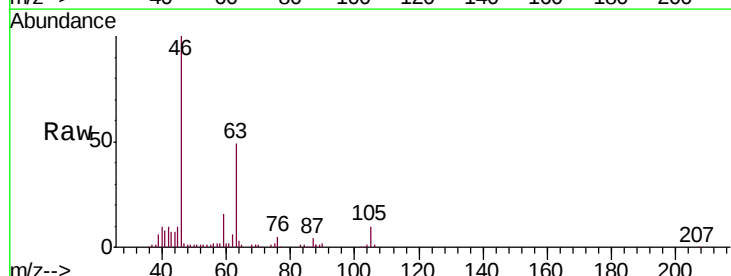


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

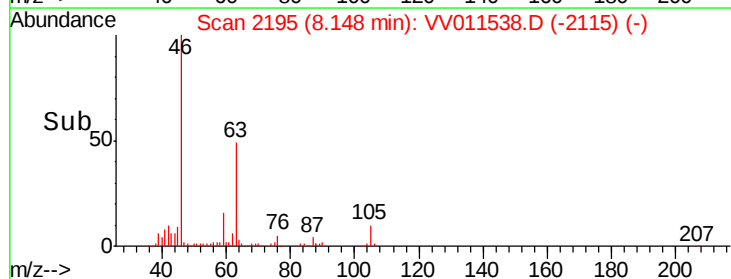
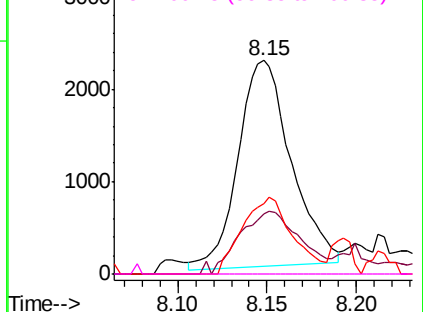


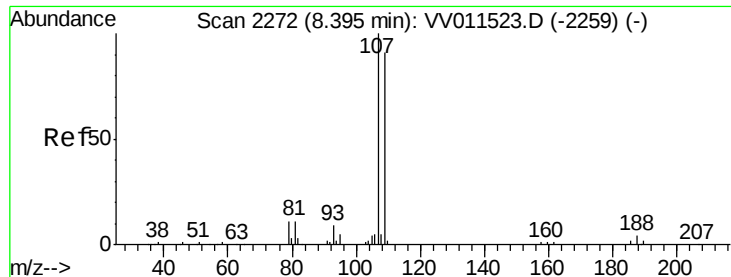
#48
 2-Hexanone
 Concen: 22.877 ug/L
 RT: 8.15 min Scan# 2195
 Delta R.T. -0.04 min
 Lab File: VV011538.D
 Acq: 15 Jun 2019 14:37

Tgt Ion:	43	Resp:	4608
Ion	Ratio	Lower	Upper
43	100		
58	35.1	40.6	60.8#
57	35.7	14.2	21.4#
100	0.0	8.6	12.8#



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 58.05 (57.75 to 58.75): VV0
 Ion 57.20 (56.90 to 57.90): VV0
 Ion 100.15 (99.85 to 100.85): VV0

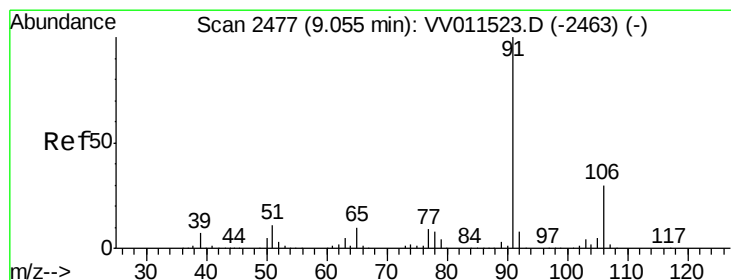
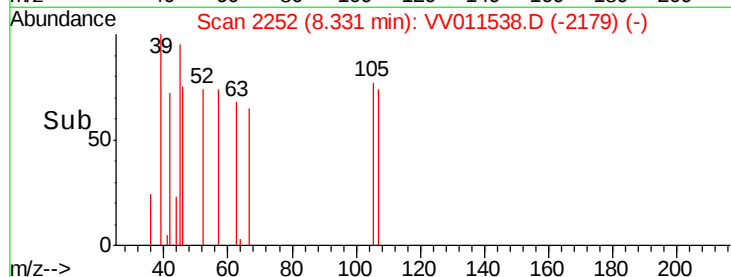
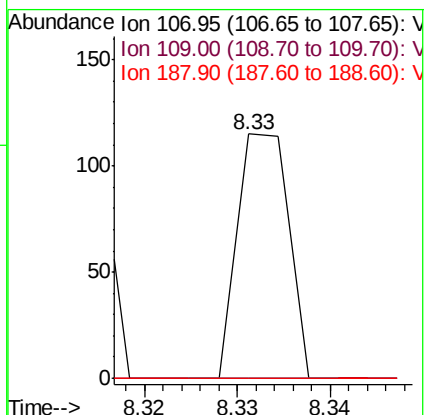
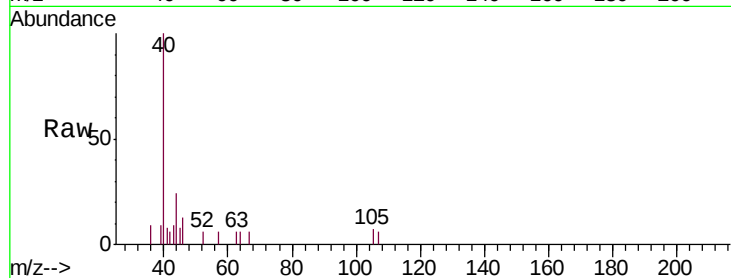




#50
1,2-Dibromoethane
Concen: 0.181 ug/L
RT: 8.33 min Scan# 2252
Delta R.T. -0.06 min
Lab File: VV011538.D
Acq: 15 Jun 2019 14:37

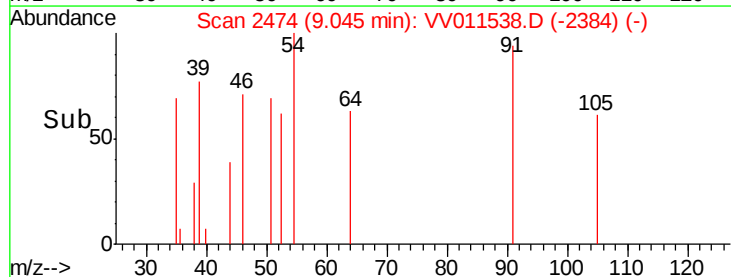
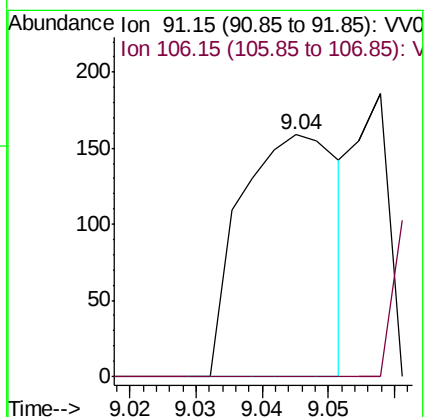
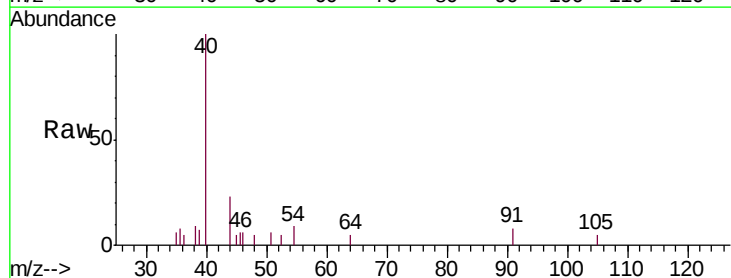
Instrument :
MSVOA_V
ClientSampled :
COM79

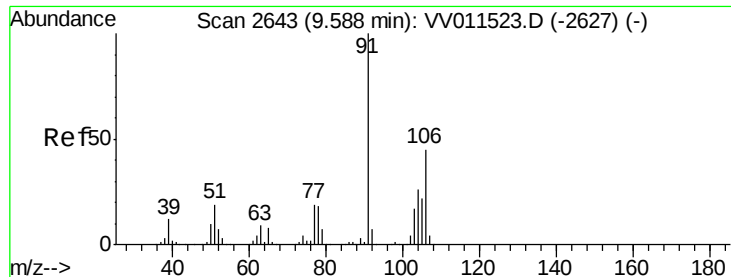
Tgt Ion	Ratio	Lower	Upper
107	100		
109	0.0	65.7	121.9#
188	0.0	2.9	4.3#



#52
Ethylbenzene
Concen: 0.099 ug/L
RT: 9.04 min Scan# 2474
Delta R.T. -0.01 min
Lab File: VV011538.D
Acq: 15 Jun 2019 14:37

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.2	39.4#





#54

o-xylene

Concen: 0.232 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.01 min

Lab File: VV011538.D

Acq: 15 Jun 2019 14:37

Instrument :

MSVOA_V

ClientSampleId :

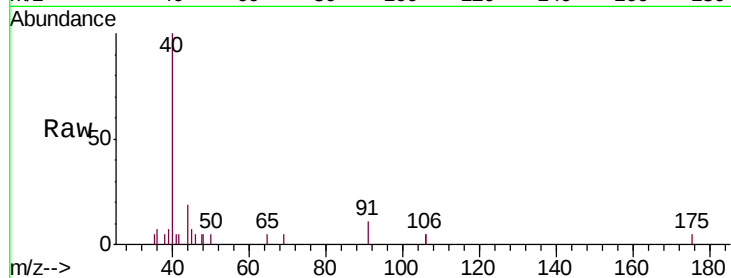
COM79

Tgt Ion:106 Resp: 140

Ion Ratio Lower Upper

106 100

91 113.2 158.8 294.8#



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

300

250

200

150

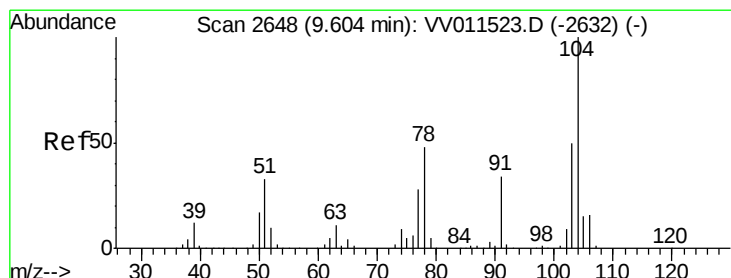
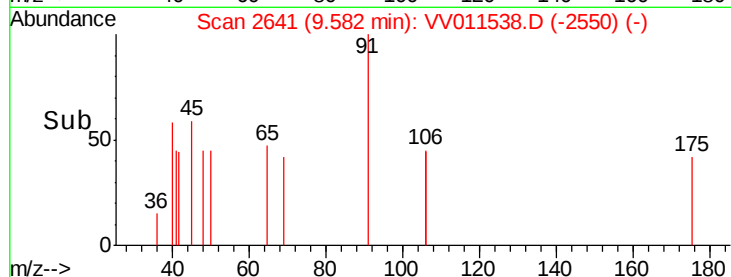
100

50

0

9.56 9.57 9.58 9.59 9.60

Time-->



#55

Styrene

Concen: 0.105 ug/L

RT: 9.62 min Scan# 2653

Delta R.T. 0.02 min

Lab File: VV011538.D

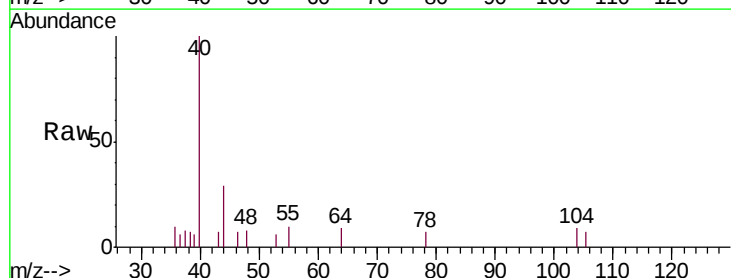
Acq: 15 Jun 2019 14:37

Tgt Ion:104 Resp: 105

Ion Ratio Lower Upper

104 100

78 69.0 34.0 63.2#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

200

150

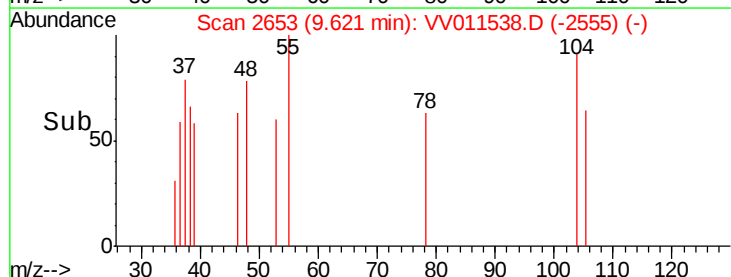
100

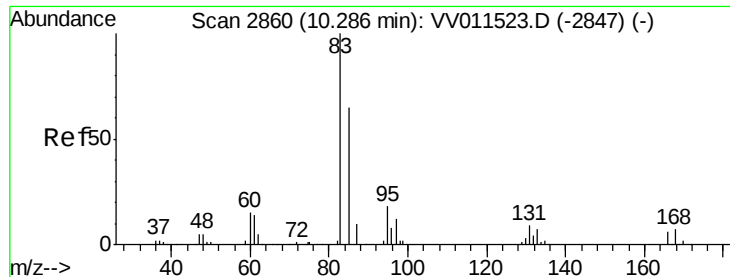
50

0

9.60 9.61 9.62 9.63

Time-->





#58

1,1,2,2-Tetrachloroethane

Concen: 0.134 ug/L

RT: 10.03 min Scan# 2781

Delta R.T. -0.25 min

Lab File: VV011538.D

Acq: 15 Jun 2019 14:37

Instrument :

MSVOA_V

ClientSampleId :

COM79

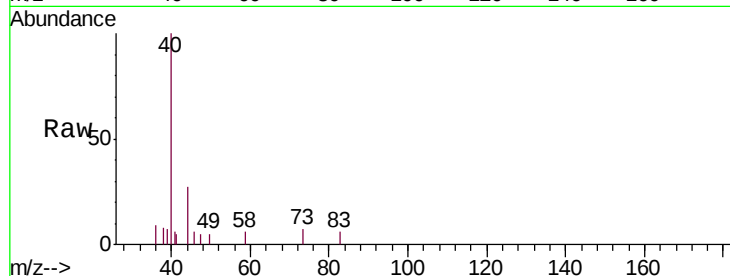
Tgt Ion: 83 Resp: 44

Ion Ratio Lower Upper

83 100

85 0.0 45.6 84.8#

131 0.0 7.9 11.9#

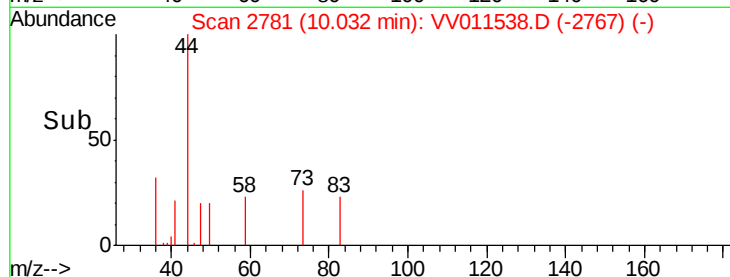


Abundance Ion 82.95 (82.65 to 83.65): VV011538.D (-2781) (-)

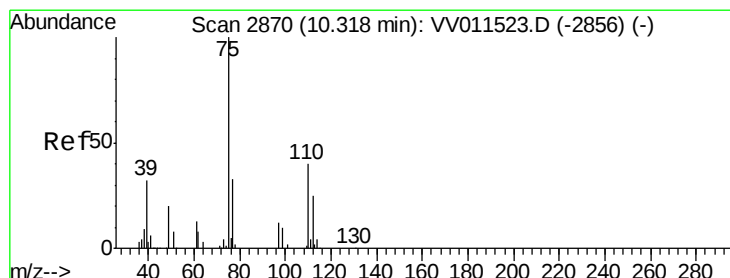
Ion 85.00 (84.70 to 85.70): VV011538.D (-2781) (-)

Ion 130.95 (130.65 to 131.65): VV011538.D (-2781) (-)

Time-->



Time-->



#59

1,2,3-Trichloropropane

Concen: 1.558 ug/L

RT: 10.42 min Scan# 2901

Delta R.T. 0.10 min

Lab File: VV011538.D

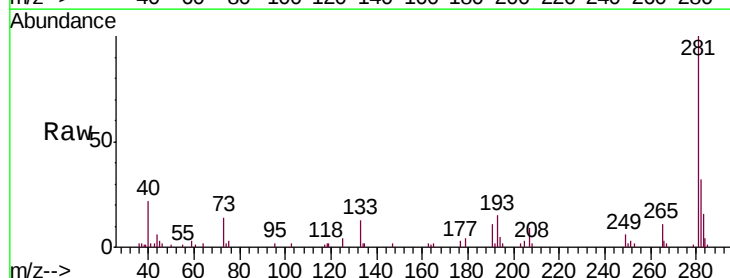
Acq: 15 Jun 2019 14:37

Tgt Ion: 75 Resp: 391

Ion Ratio Lower Upper

75 100

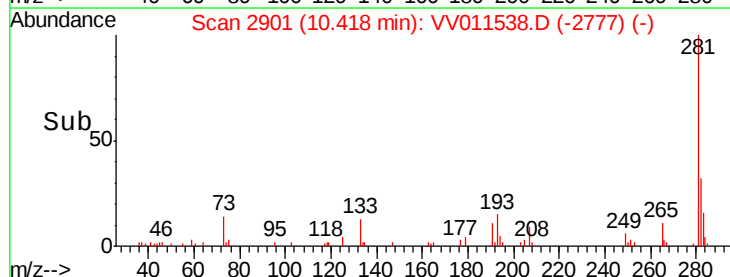
77 26.6 26.0 39.0



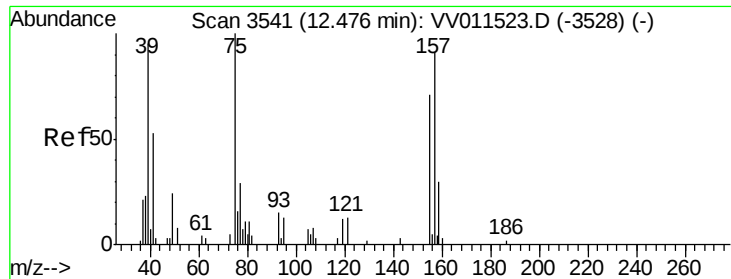
Abundance Ion 75.00 (74.70 to 75.70): VV011538.D (-2870) (-)

Ion 77.00 (76.70 to 77.70): VV011538.D (-2870) (-)

Time-->



Time-->



#66
 1,2-Dibromo-3-chloropropane
 Concen: 7.179 ug/L
 RT: 12.30 min Scan# 3485
 Delta R.T. -0.18 min
 Lab File: VV011538.D
 Acq: 15 Jun 2019 14:37

Instrument :
 MSVOA_V
 ClientSampleId :
 COM79

Tgt Ion: 75 Resp: 171
 Ion Ratio Lower Upper
 75 100
 155 0.0 58.5 87.7#
 157 0.0 79.8 119.6#

