

Data File : VV008867.D
Acq On : 06 Dec 2018 20:32
Operator : SY/MD
Sample : MDL02
Misc : 5.00g/10.0 mL/MSVOA_V/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Quant Time: Dec 07 01:40:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 07 01:37:11 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	182982	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	158930	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	65999	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	51500	27.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	108.80%
7) Chloroethane-d5	1.58	69	38784	27.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	110.88%
10) 1,1-Dichloroethene-d2	2.13	63	95945	20.27	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.08%
20) 2-Butanone-d5	3.94	46	38324	55.59	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.18%
24) Chloroform-d	4.40	84	111190	25.28	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.12%
26) 1,2-Dichloroethane-d4	5.08	65	66220	27.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	110.36%
29) Benzene-d6	5.10	84	233233	26.28	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	105.12%
33) 1,2-Dichloropropane-d6	6.12	67	67946	27.34	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	109.36%
37) Toluene-d8	7.36	98	209447	25.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.00%
38) trans-1,3-Dichloropropene-	7.67	79	27386	25.08	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.32%
39) 2-Hexanone-d5	8.13	63	24443	53.69	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.38%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	53502	25.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.68%
61) 1,2-Dichlorobenzene-d4	11.68	152	65116	26.29	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.16%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	3922	1.308 ug/L	98
3) Chloromethane	1.25	50	2578	1.251 ug/L	94
5) Vinyl chloride	1.32	62	2743	1.192 ug/L #	56
6) Bromomethane	1.53	94	1759	1.590 ug/L	86
8) Chloroethane	1.60	64	1799	1.396 ug/L	97
9) Trichlorofluoromethane	1.77	101	5668	1.438 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4232	1.566 ug/L	86
12) 1,1-Dichloroethene	2.14	96	3471	1.472 ug/L #	1
13) Acetone	2.20	43	3671	3.614 ug/L	90
14) Carbon disulfide	2.32	76	8547	1.128 ug/L #	94
15) Methyl Acetate	2.46	43	1529	1.187 ug/L #	68
16) Methylene chloride	2.54	84	10677	3.465 ug/L	95
17) Methyl tert-butyl Ether	2.81	73	6321	1.180 ug/L #	91
18) trans-1,2-Dichloroethene	2.79	96	3152	1.237 ug/L	86
19) 1,1-Dichloroethane	3.23	63	4628	1.120 ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	3017	1.135 ug/L	92
23) Bromochloromethane	4.30	128	1375	1.098 ug/L #	78

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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.42	83	7444	1.679	ug/L	90
27) 1,2-Dichloroethane	5.18	62	3684	1.220	ug/L #	92
30) Cyclohexane	4.72	56	3024	0.756	ug/L #	50
31) 1,1,1-Trichloroethane	4.66	97	1533	0.374	ug/L #	1
32) Carbon tetrachloride	4.87	117	4077	1.090	ug/L	99
34) Benzene	5.15	78	10478	1.100	ug/L	100
35) Trichloroethene	5.96	95	3639	1.268	ug/L	96
36) Methylcyclohexane	6.18	83	5268	1.151	ug/L	97
40) 1,2-Dichloropropane	6.22	63	2747	1.202	ug/L #	90
41) Bromodichloromethane	6.56	83	3172	1.053	ug/L	91
42) cis-1,3-Dichloropropene	7.07	75	3674	1.098	ug/L	91
43) 4-Methyl-2-pentanone	7.28	43	5011	3.244	ug/L #	93
44) Toluene	7.43	91	11860	1.188	ug/L	96
45) trans-1,3-Dichloropropene	7.70	75	3572	1.225	ug/L	96
46) 1,1,2-Trichloroethane	7.89	97	2299	1.207	ug/L	95
47) Tetrachloroethene	8.02	164	2751	1.178	ug/L	93
49) 2-Hexanone	8.19	43	4750	3.717	ug/L #	90
50) Dibromochloromethane	8.30	129	2259	1.035	ug/L	96
51) 1,2-Dibromoethane	8.40	107	2180	1.140	ug/L #	76
52) Chlorobenzene	8.93	112	7446	1.145	ug/L #	86
53) Ethylbenzene	9.06	91	11664	1.077	ug/L	93
54) m,p-Xylene	9.18	106	4327	1.055	ug/L	97
55) o-xylene	9.59	106	4182	1.097	ug/L	94
56) Styrene	9.61	104	5978	0.972	ug/L	93
57) Isopropylbenzene	9.98	105	10737	1.037	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	2750	1.336	ug/L #	94
59) 1,2,3-Trichloropropane	10.32	75	2135	1.199	ug/L	98
62) Bromoform	9.78	173	1192	1.000	ug/L #	76
63) 1,3-Dichlorobenzene	11.23	146	5264	1.238	ug/L	96
64) 1,4-Dichlorobenzene	11.32	146	5293	1.209	ug/L	89
65) 1,2-Dichlorobenzene	11.69	146	5077	1.295	ug/L	93
67) 1,3,5-Trichlorobenzene	12.70	180	3090	1.006	ug/L	89
68) 1,2,4-trichlorobenzene	13.32	180	2008	0.933	ug/L	94
69) Naphthalene	13.56	128	2906	0.784	ug/L #	95
70) 1,2,3-Trichlorobenzene	13.80	180	1789	0.900	ug/L	93

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

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MSVOA_V
ClientSampleId :
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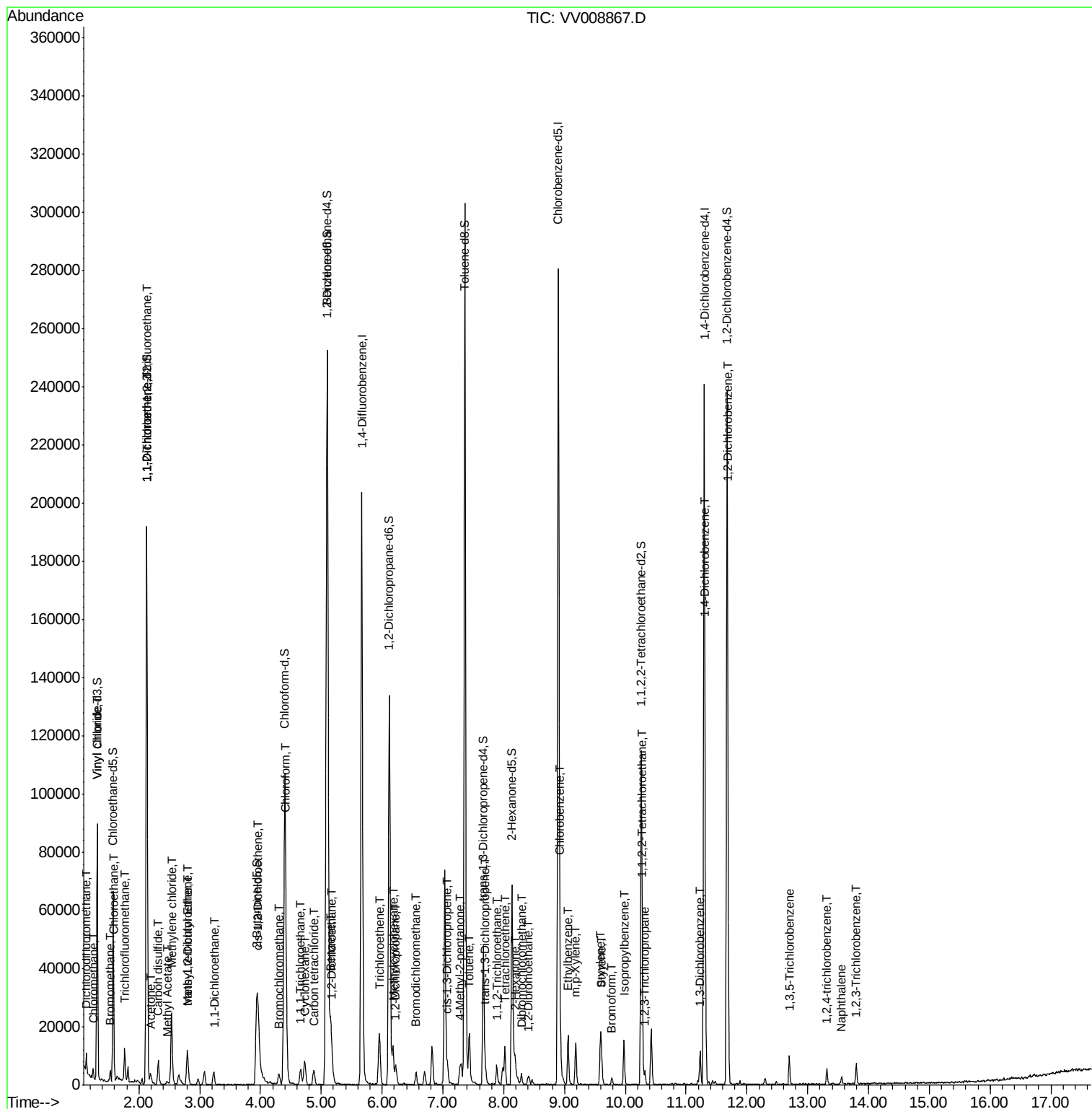
Quant Time: Dec 07 01:40:34 2018

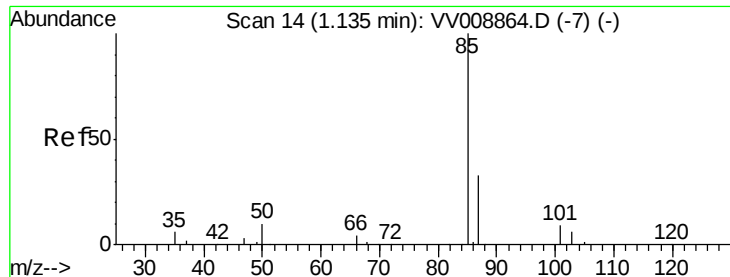
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM120618S.M

Quant Title : VOC Analysis

QLast Update : Fri Dec 07 01:37:11 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.308 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

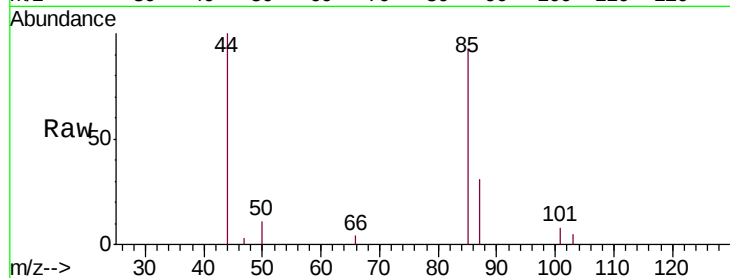
MDL02

Tgt Ion: 85 Resp: 3922

Ion Ratio Lower Upper

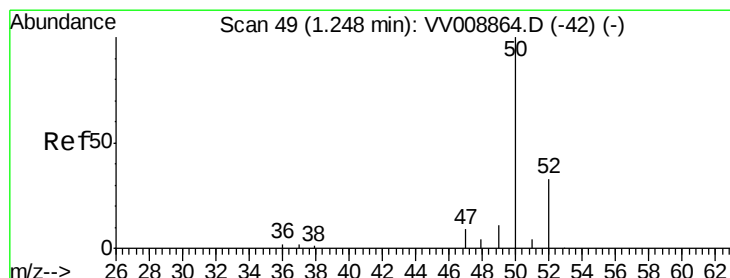
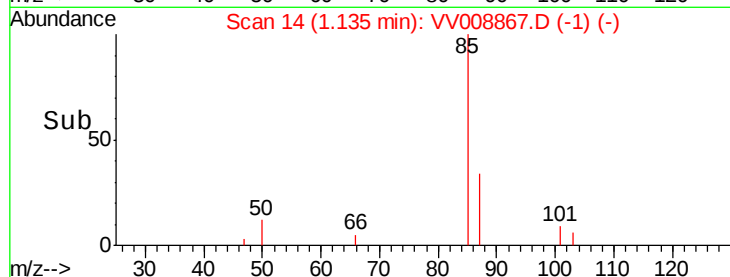
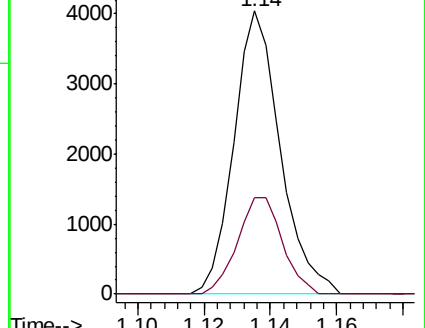
85 100

87 33.0 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV008864.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV008867.D (-1) (-)



#3

Chloromethane

Concen: 1.251 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV008867.D

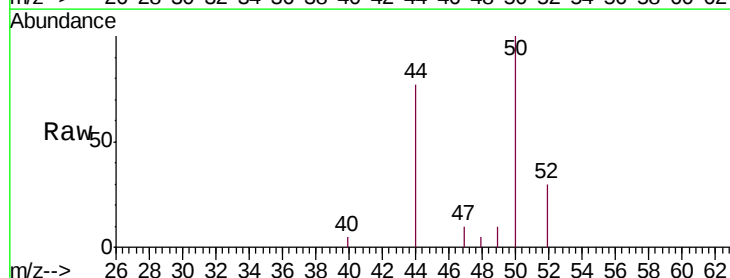
Acq: 06 Dec 2018 20:32

Tgt Ion: 50 Resp: 2578

Ion Ratio Lower Upper

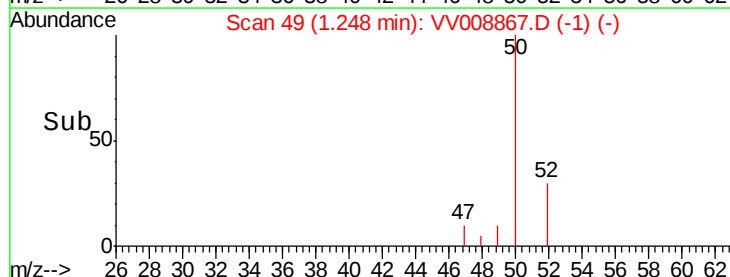
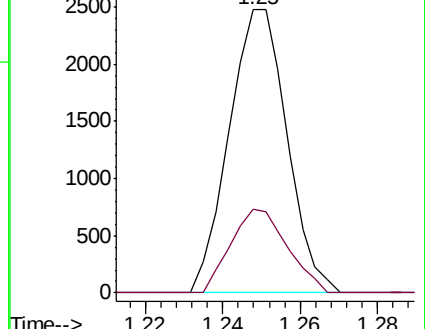
50 100

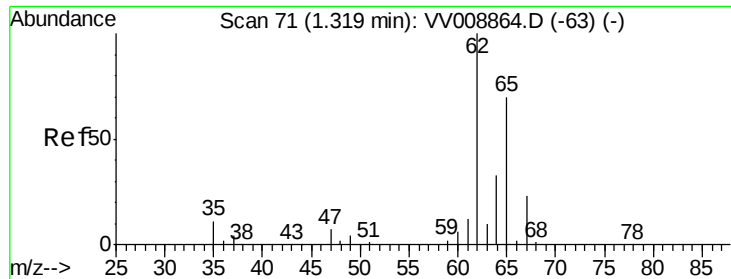
52 29.6 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV008864.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV008867.D (-1) (-)





#5

Vinyl chloride

Concen: 1.192 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

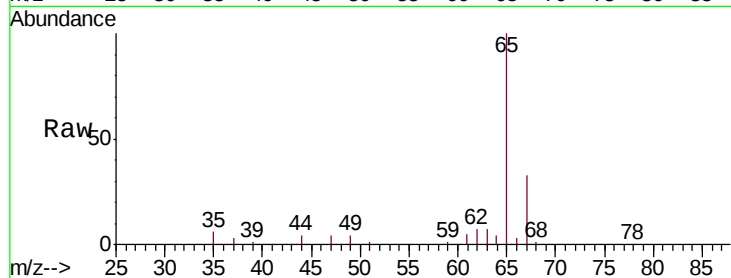
MDL02

Tgt Ion: 62 Resp: 2743

Ion Ratio Lower Upper

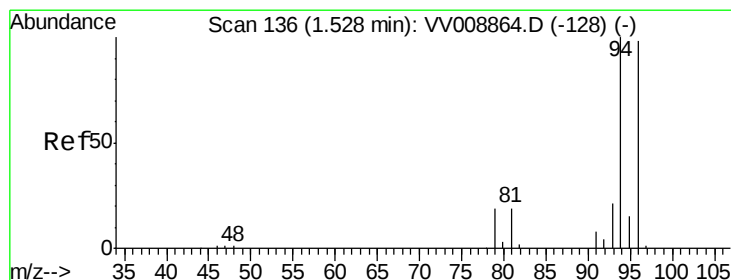
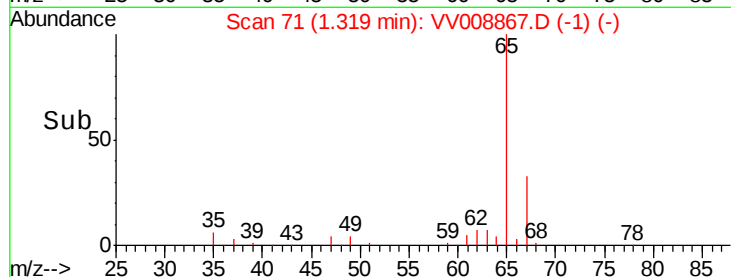
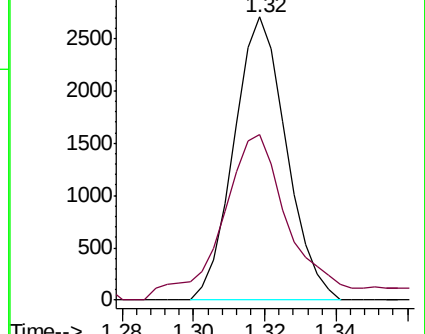
62 100

64 58.5 23.3 43.3#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 1.590 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV008867.D

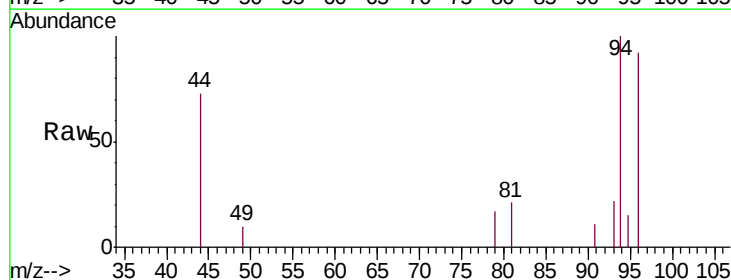
Acq: 06 Dec 2018 20:32

Tgt Ion: 94 Resp: 1759

Ion Ratio Lower Upper

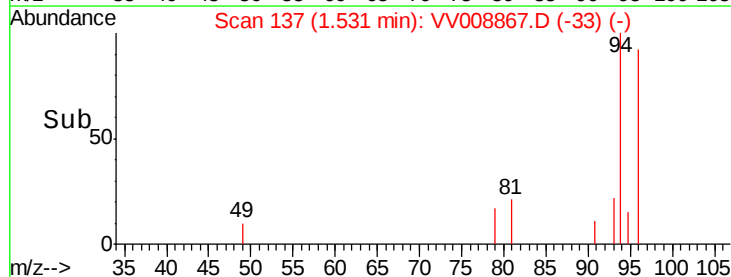
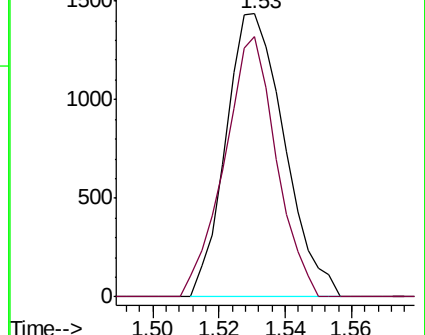
94 100

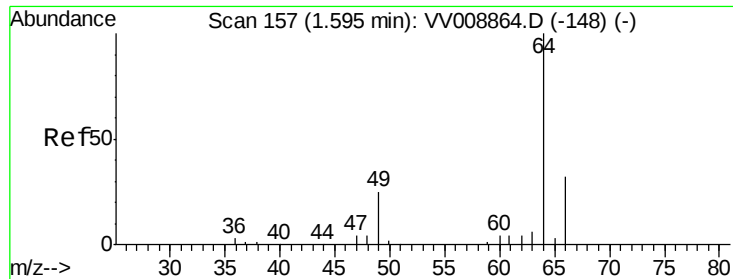
96 81.6 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 1.396 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

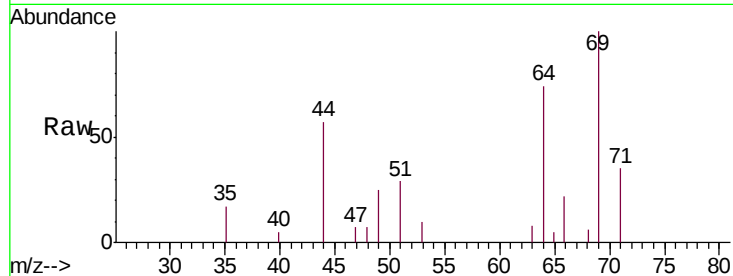
MDL02

Tgt Ion: 64 Resp: 1799

Ion Ratio Lower Upper

64 100

66 30.1 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV008864.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV008867.D (-54) (-)

1.60

1500

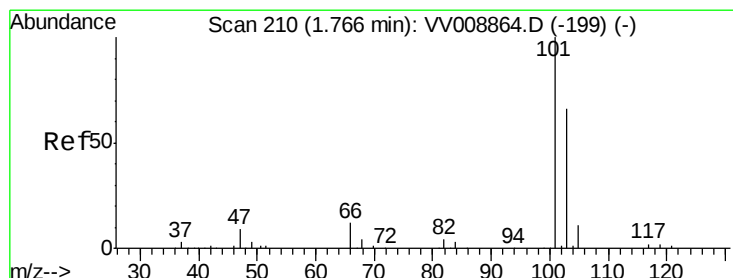
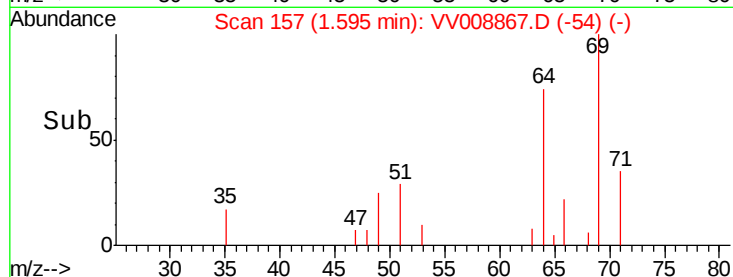
1000

500

0

1.56 1.58 1.60 1.62

Time-->



#9

Trichlorofluoromethane

Concen: 1.438 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV008867.D

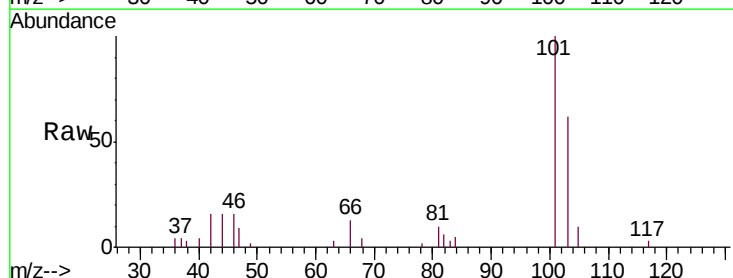
Acq: 06 Dec 2018 20:32

Tgt Ion: 101 Resp: 5668

Ion Ratio Lower Upper

101 100

103 64.6 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): VV008864.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV008867.D (-55) (-)

1.77

5000

4000

3000

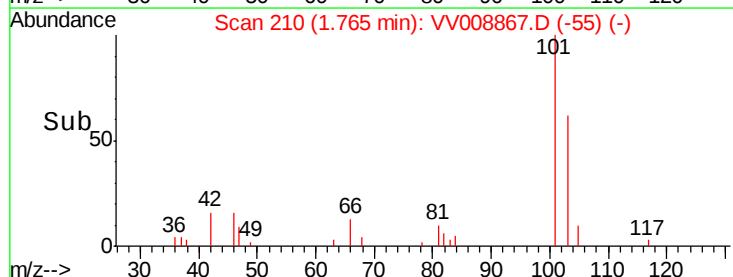
2000

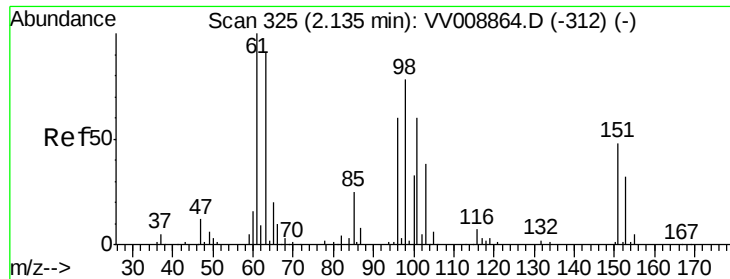
1000

0

1.72 1.74 1.76 1.78 1.80

Time-->





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.566 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampled :

MDL02

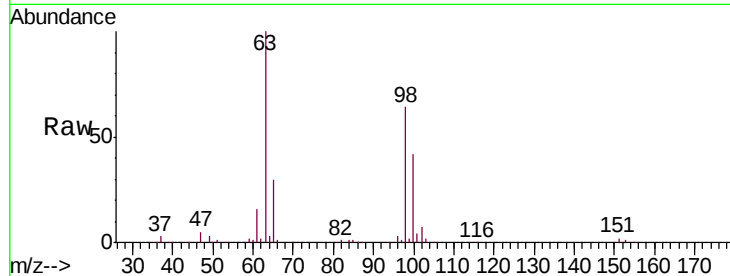
Tgt Ion:101 Resp: 4232

Ion Ratio Lower Upper

101 100

85 34.2 32.5 48.7

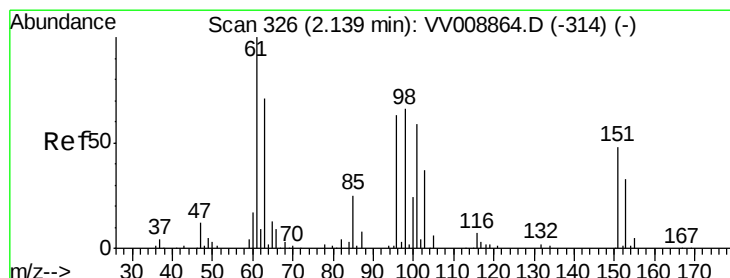
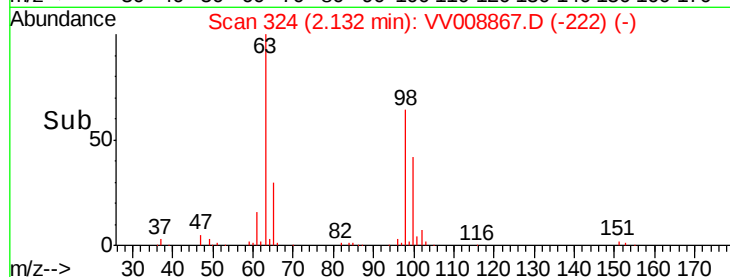
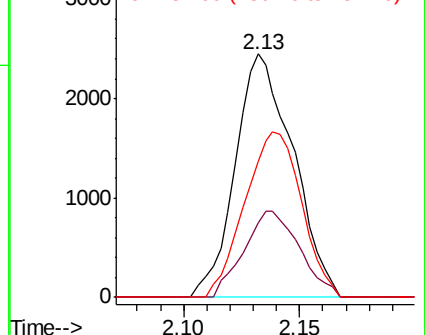
151 66.8 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 1.472 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

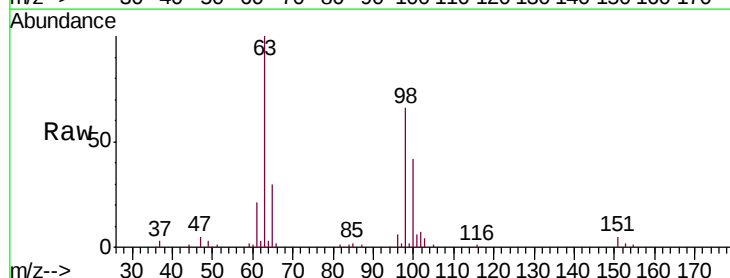
Tgt Ion: 96 Resp: 3471

Ion Ratio Lower Upper

96 100

61 359.4 114.0 211.6#

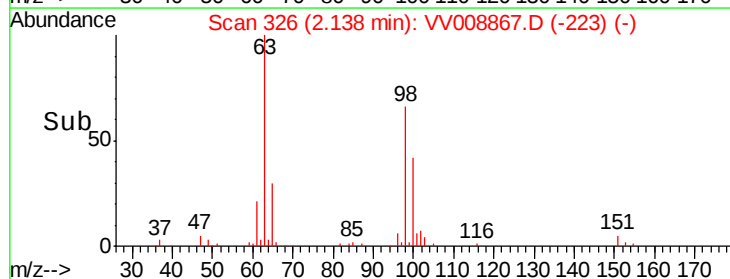
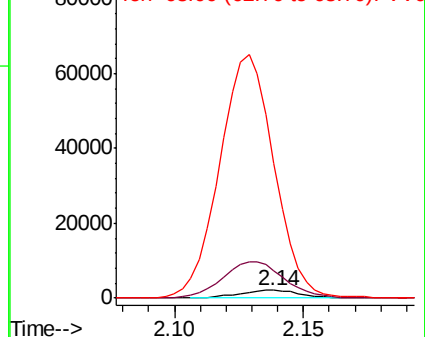
63 1747.0 82.4 153.0#

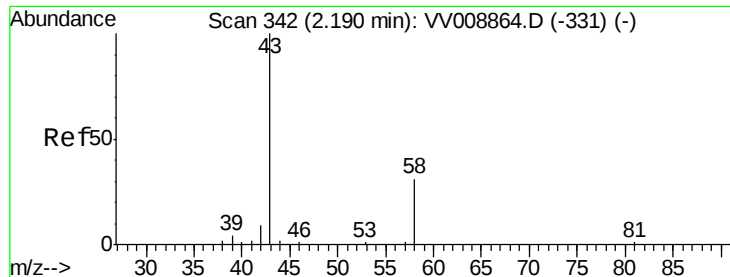


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 3.614 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

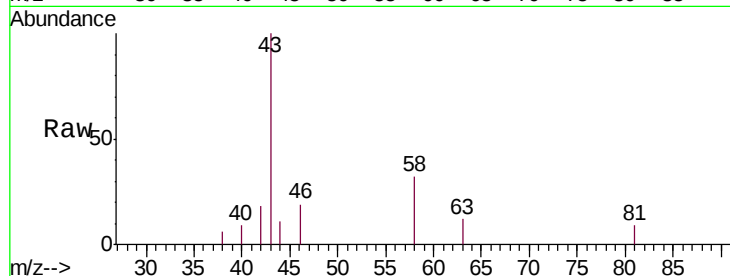
Instrument :
MSVOA_V
ClientSampled :
MDL02

Tgt Ion: 43 Resp: 3671

Ion Ratio Lower Upper

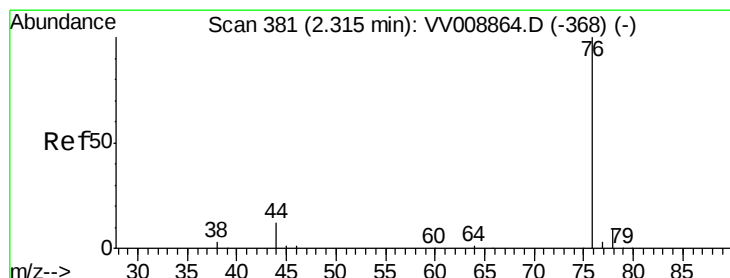
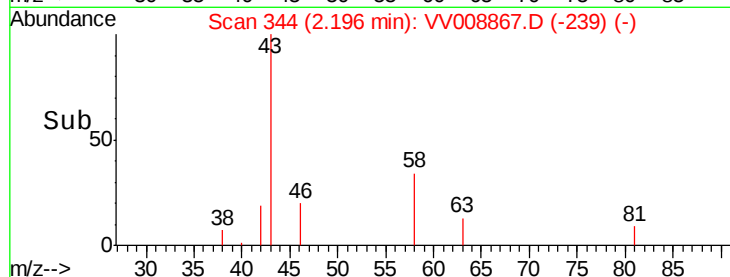
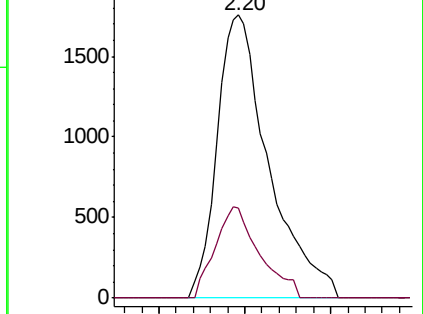
43 100

58 27.2 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VV008867.D (-239) (-)

Ion 58.00 (57.70 to 58.70): VV008867.D (-239) (-)



#14

Carbon disulfide

Concen: 1.128 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV008867.D

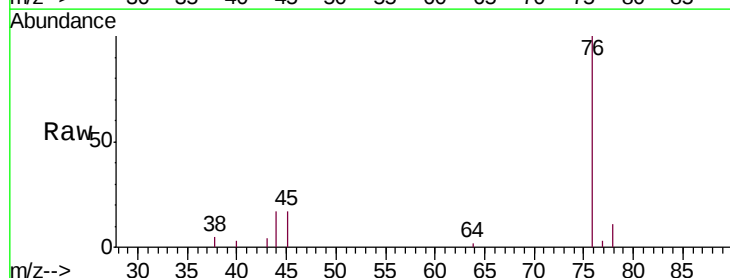
Acq: 06 Dec 2018 20:32

Tgt Ion: 76 Resp: 8547

Ion Ratio Lower Upper

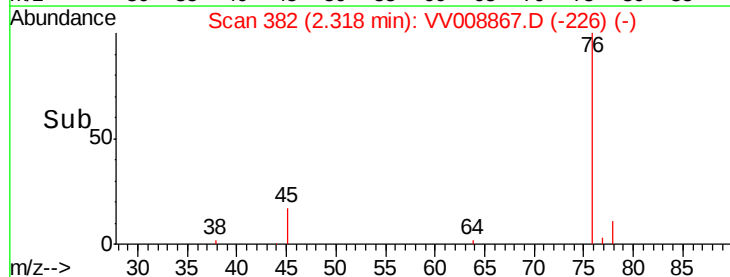
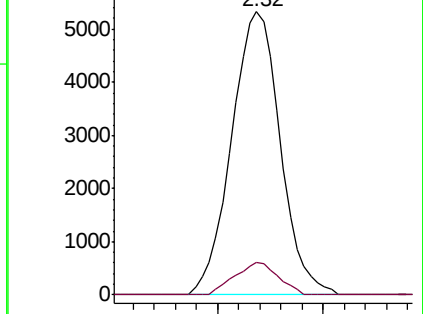
76 100

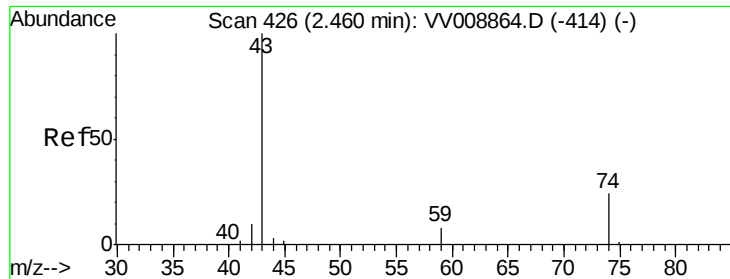
78 11.5 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VV008867.D (-226) (-)

Ion 78.00 (77.70 to 78.70): VV008867.D (-226) (-)

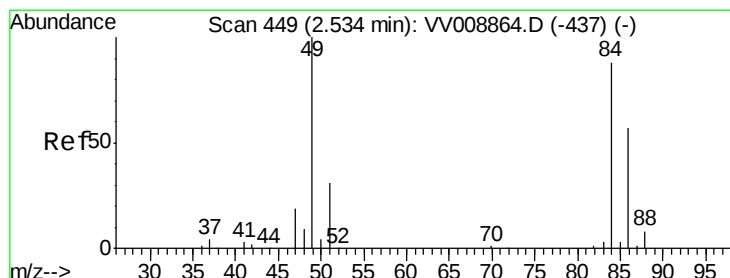
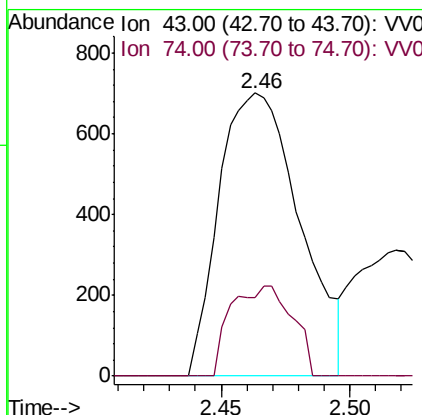
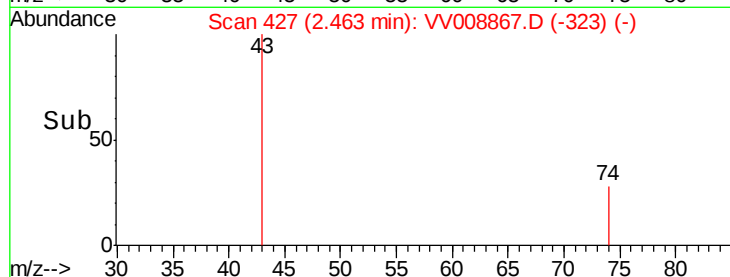
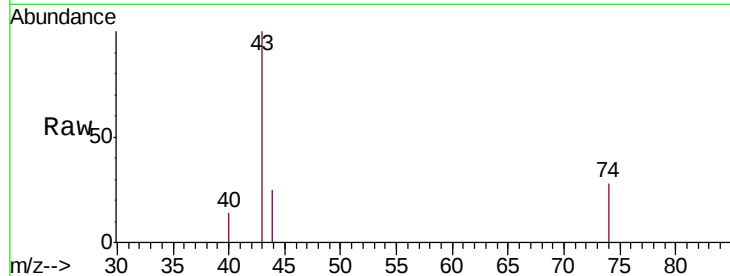




#15
Methyl Acetate
Concen: 1.187 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VV008867.D
Acq: 06 Dec 2018 20:32

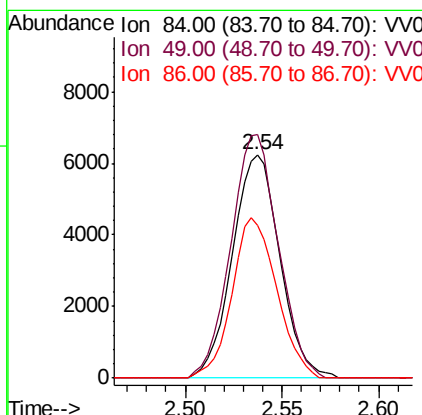
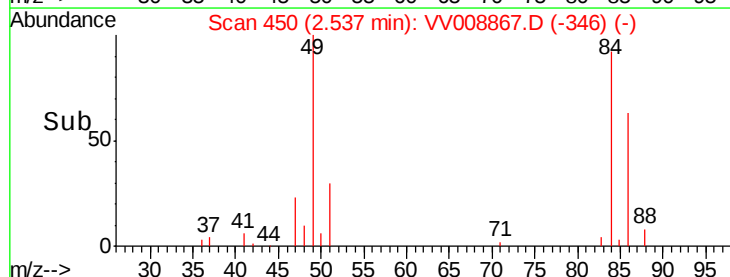
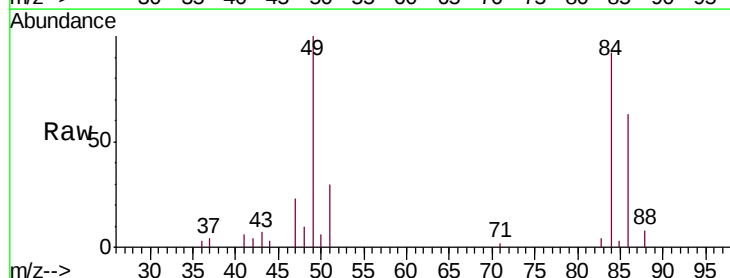
Instrument :
MSVOA_V
ClientSampled :
MDL02

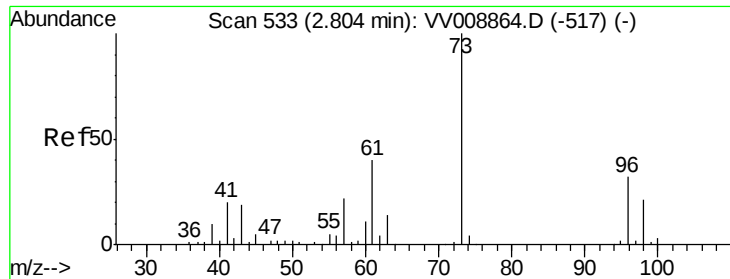
Tgt Ion: 43 Resp: 1529
Ion Ratio Lower Upper
43 100
74 8.8 19.7 29.5#



#16
Methylene chloride
Concen: 3.465 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV008867.D
Acq: 06 Dec 2018 20:32

Tgt Ion: 84 Resp: 10677
Ion Ratio Lower Upper
84 100
49 108.9 80.5 149.5
86 68.5 45.5 84.5

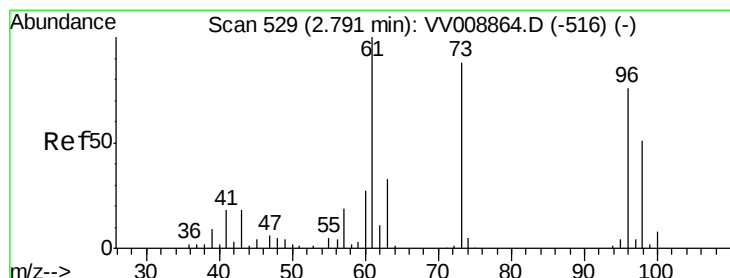
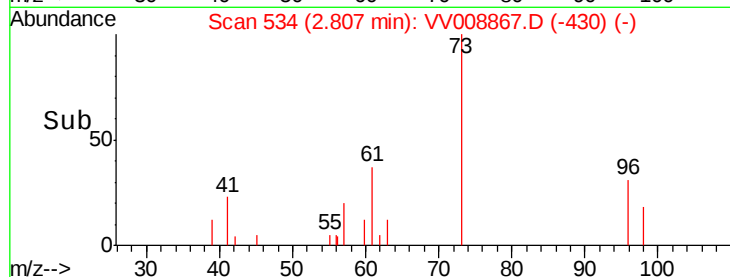
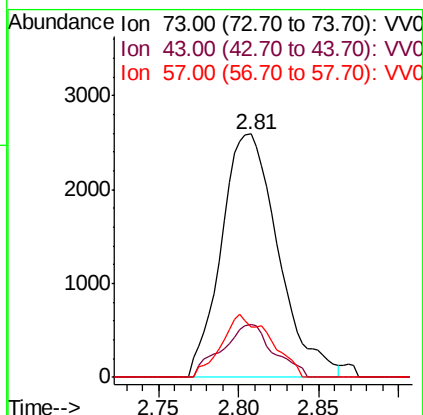
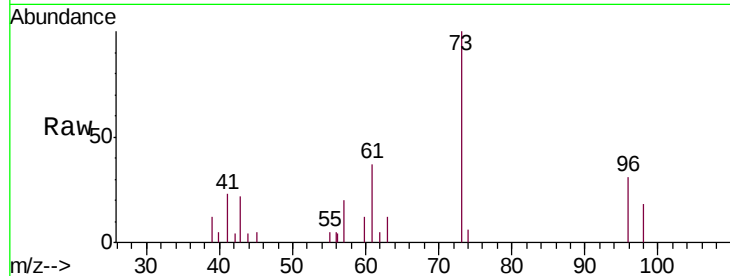




#17
Methyl tert-butyl Ether
Concen: 1.180 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV008867.D
Acq: 06 Dec 2018 20:32

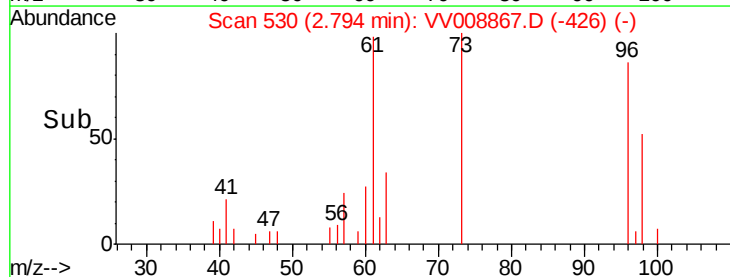
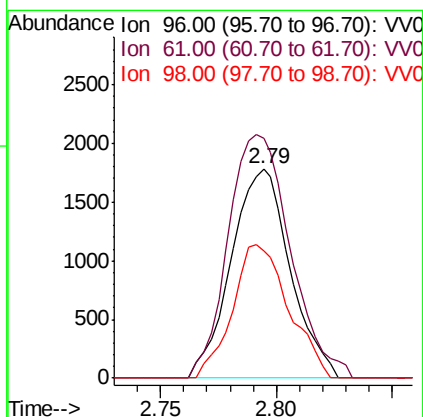
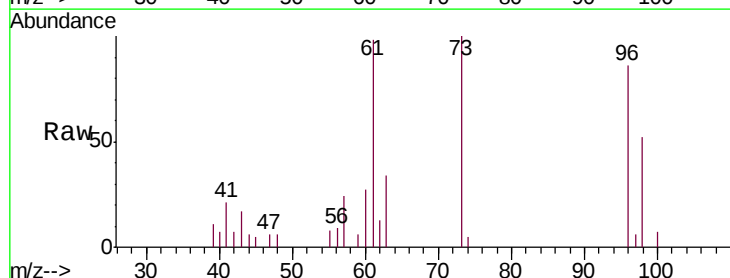
Instrument :
MSVOA_V
ClientSampleId :
MDL02

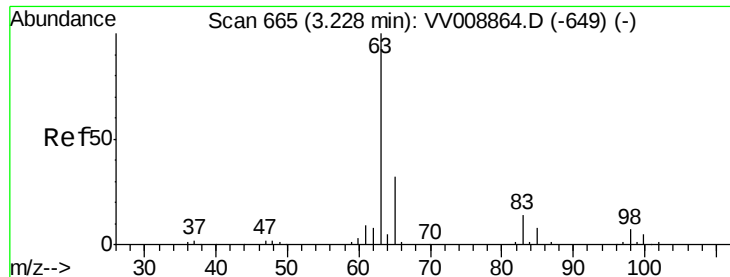
Tgt Ion: 73 Resp: 6321
Ion Ratio Lower Upper
73 100
43 19.6 14.9 22.3
57 13.0 16.0 24.0#



#18
trans-1,2-Dichloroethene
Concen: 1.237 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV008867.D
Acq: 06 Dec 2018 20:32

Tgt Ion: 96 Resp: 3152
Ion Ratio Lower Upper
96 100
61 114.1 94.6 175.8
98 60.5 45.3 84.1

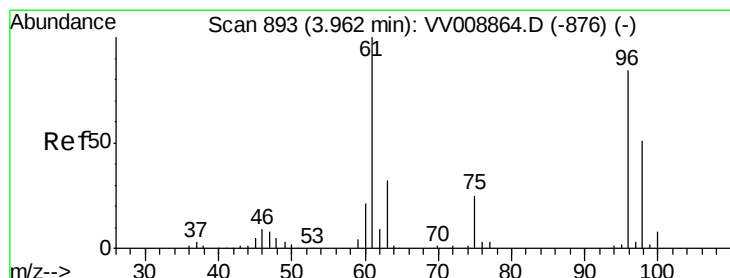
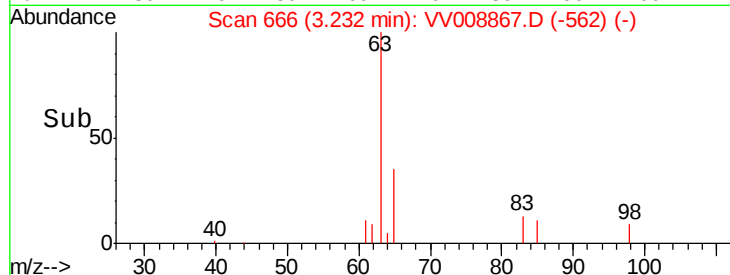
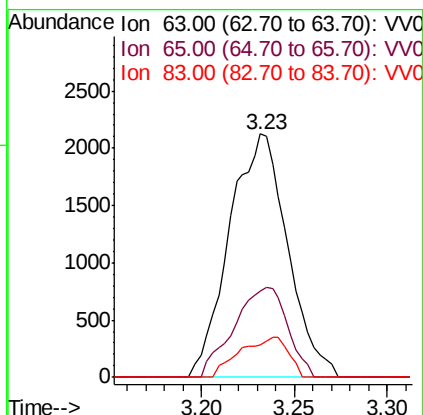
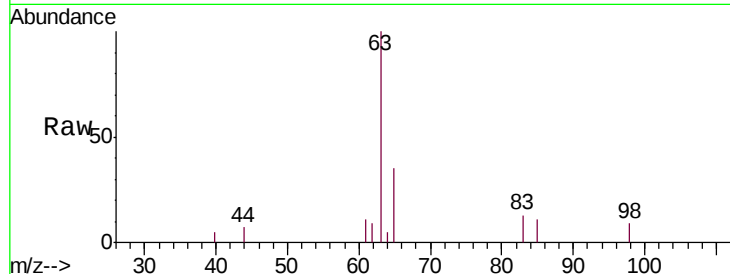




#19
 1,1-Dichloroethane
 Concen: 1.120 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV008867.D
 Acq: 06 Dec 2018 20:32

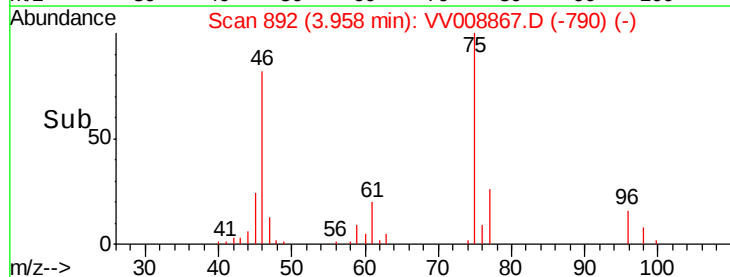
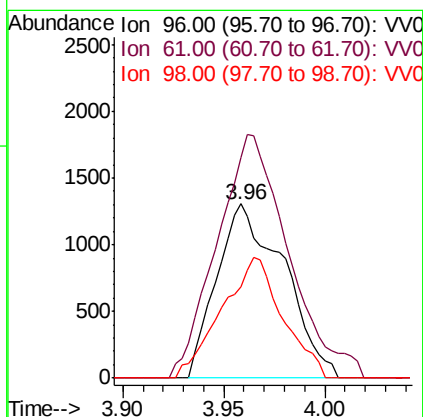
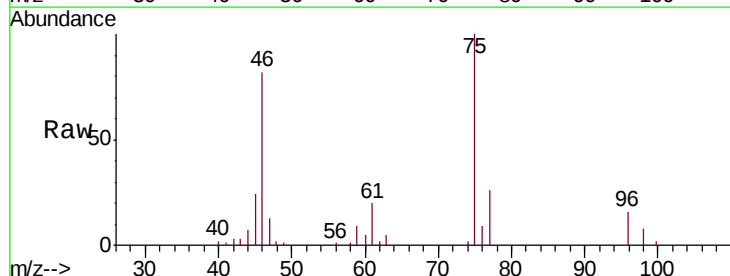
Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

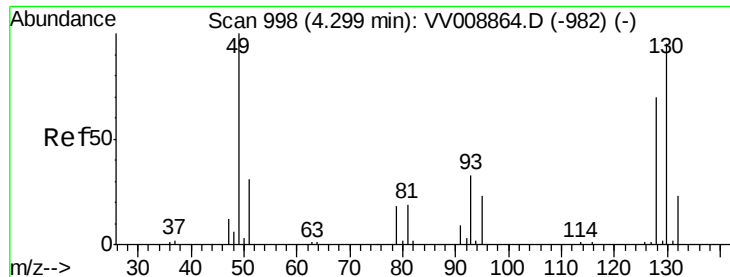
Tgt Ion: 63 Resp: 4628
 Ion Ratio Lower Upper
 63 100
 65 35.2 22.7 42.1
 83 13.4 10.2 19.0



#22
 cis-1,2-Dichloroethene
 Concen: 1.135 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV008867.D
 Acq: 06 Dec 2018 20:32

Tgt Ion: 96 Resp: 3017
 Ion Ratio Lower Upper
 96 100
 61 126.8 86.2 160.0
 98 52.1 45.6 84.6





#23

Bromochloromethane

Concen: 1.098 ug/L

RT: 4.30 min Scan# 999

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tgt Ion:128 Resp: 1375

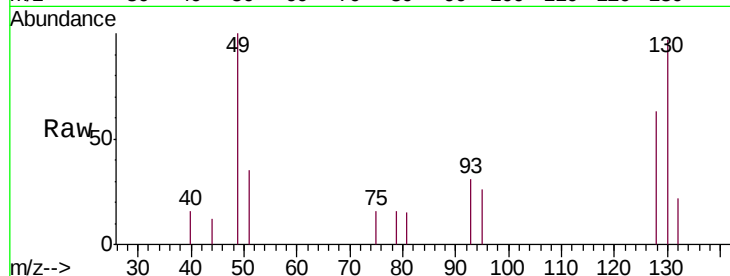
Ion Ratio Lower Upper

128 100

49 159.6 93.8 174.2

130 155.6 90.4 168.0

51 55.4 34.2 51.4#

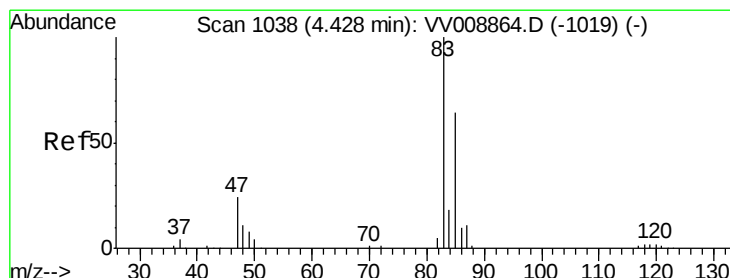
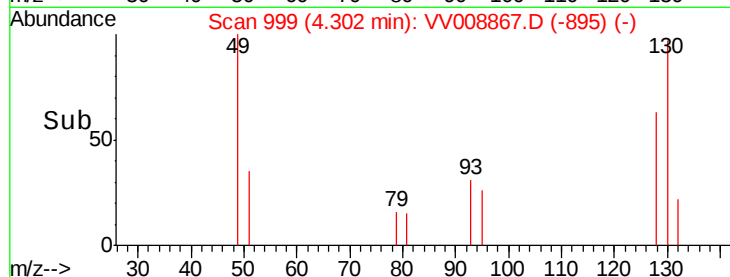
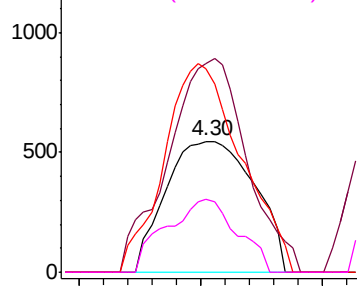


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0



#25

Chloroform

Concen: 1.679 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VV008867.D

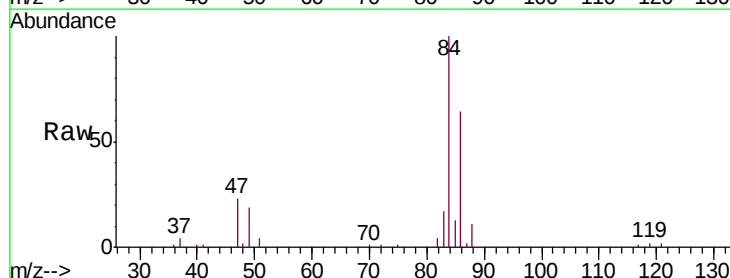
Acq: 06 Dec 2018 20:32

Tgt Ion: 83 Resp: 7444

Ion Ratio Lower Upper

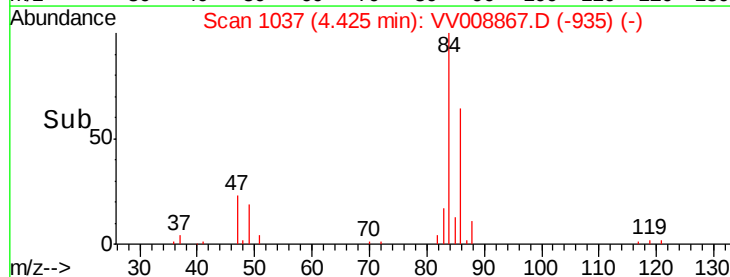
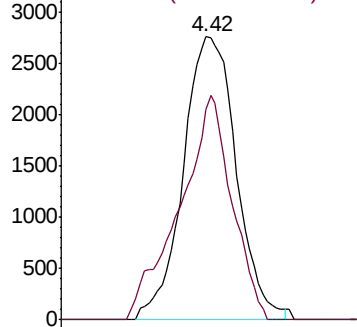
83 100

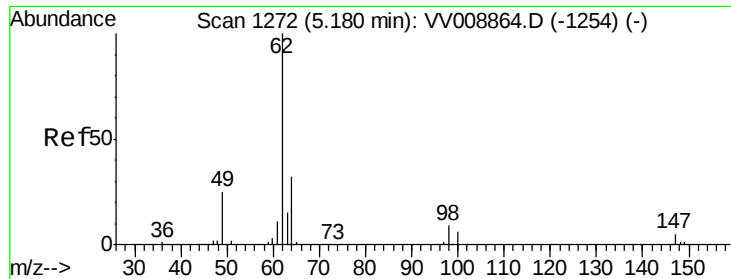
85 72.7 45.6 84.8



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 1.220 ug/L

RT: 5.18 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

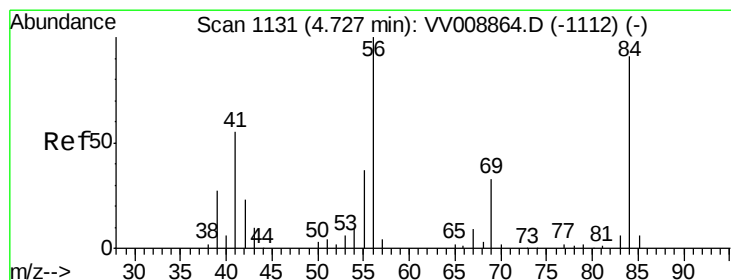
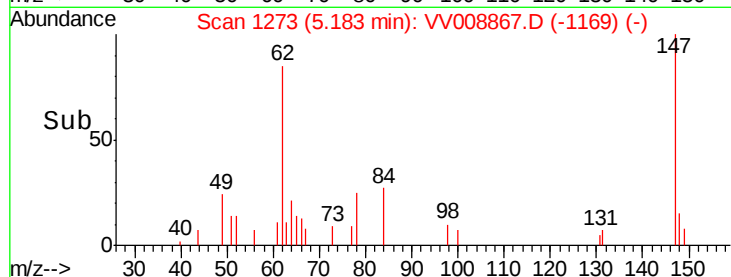
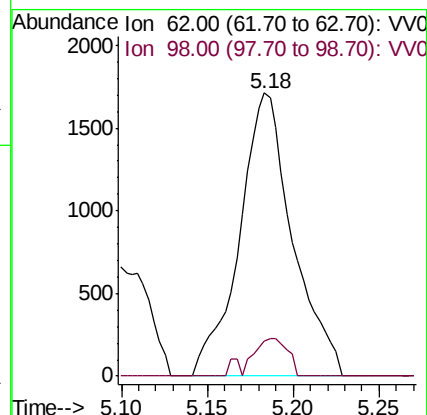
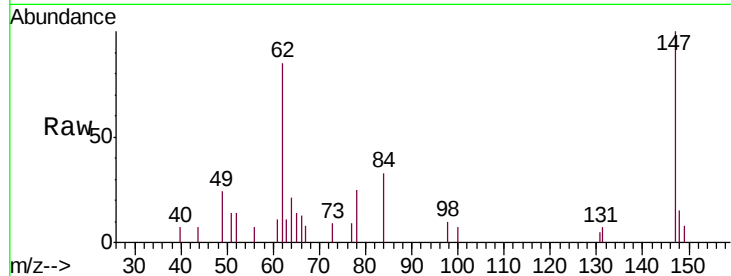
MDL02

Tgt Ion: 62 Resp: 3684

Ion Ratio Lower Upper

62 100

98 12.2 7.4 11.0#



#30

Cyclohexane

Concen: 0.756 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

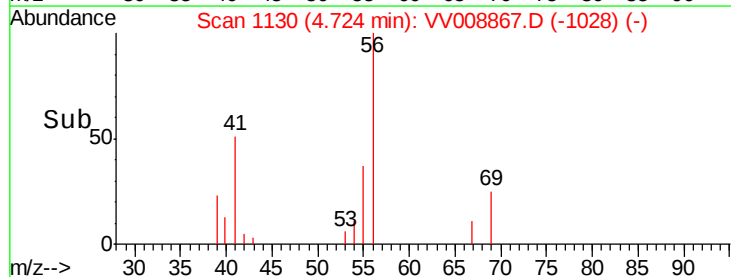
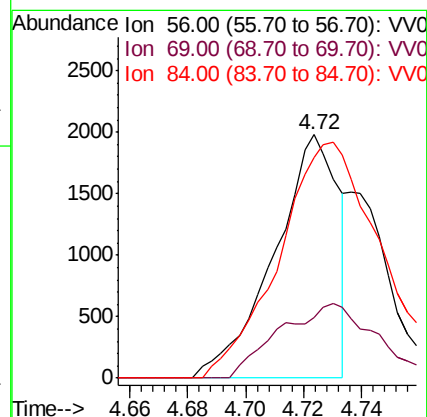
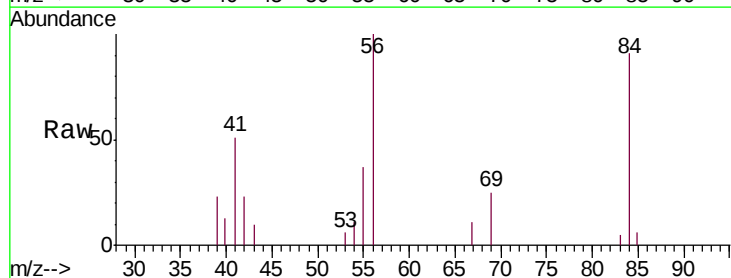
Tgt Ion: 56 Resp: 3024

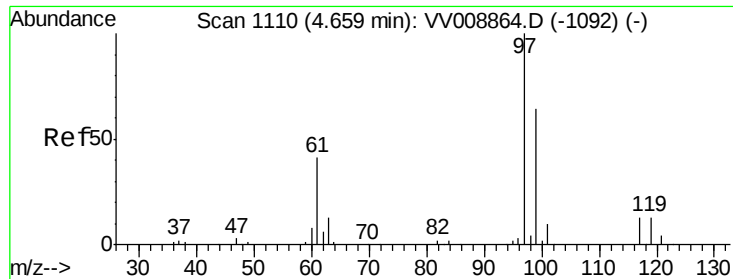
Ion Ratio Lower Upper

56 100

69 29.0 25.8 38.8

84 153.1 73.0 109.6#

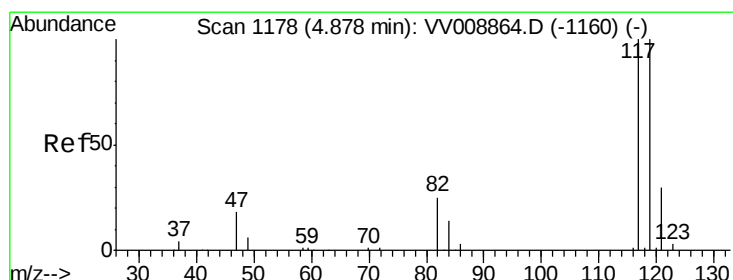
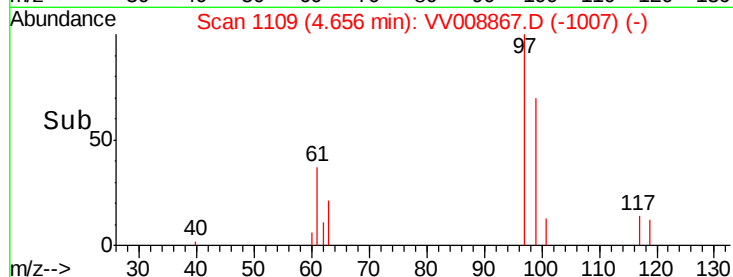
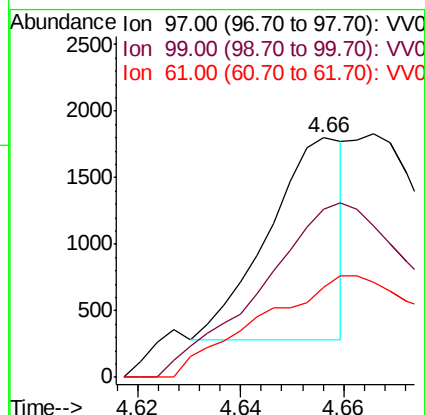
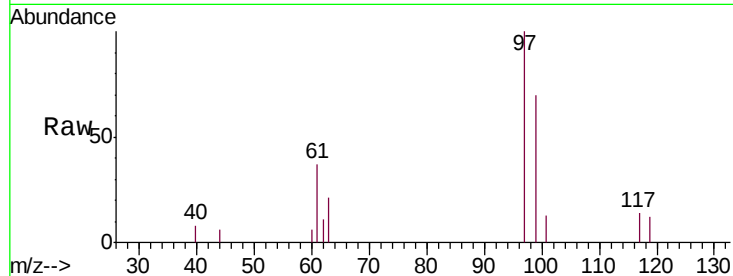




#31
 1,1,1-Trichloroethane
 Concen: 0.374 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. -0.00 min
 Lab File: VV008867.D
 Acq: 06 Dec 2018 20:32

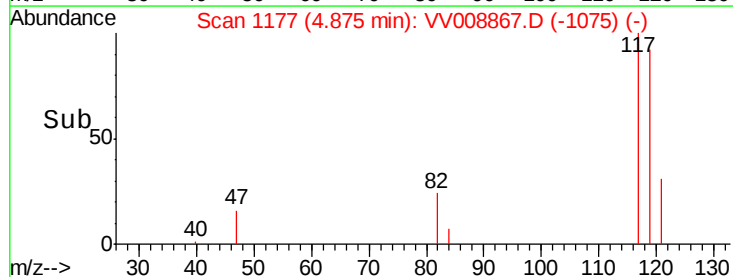
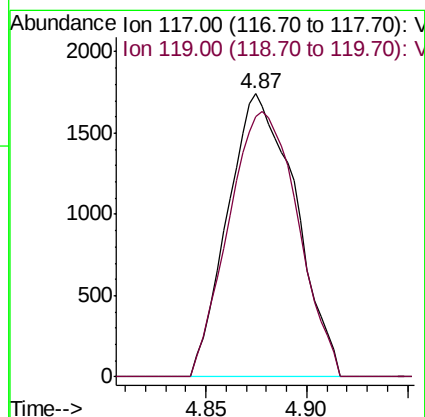
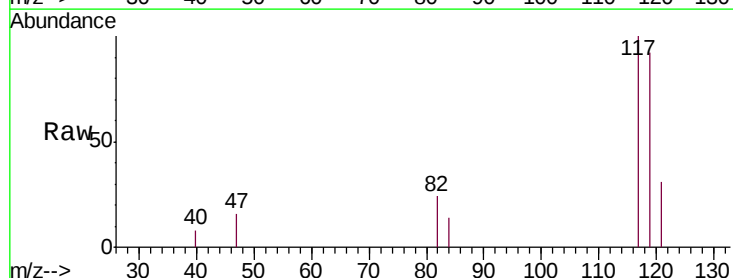
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

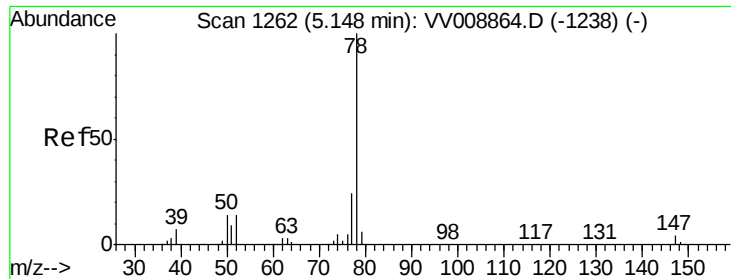
Tgt Ion: 97 Resp: 1533
 Ion Ratio Lower Upper
 97 100
 99 190.3 51.9 77.9#
 61 118.6 33.1 49.7#



#32
 Carbon tetrachloride
 Concen: 1.090 ug/L
 RT: 4.87 min Scan# 1177
 Delta R.T. -0.00 min
 Lab File: VV008867.D
 Acq: 06 Dec 2018 20:32

Tgt Ion: 117 Resp: 4077
 Ion Ratio Lower Upper
 117 100
 119 95.7 77.1 115.7





#34

Benzene

Concen: 1.100 ug/L

RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

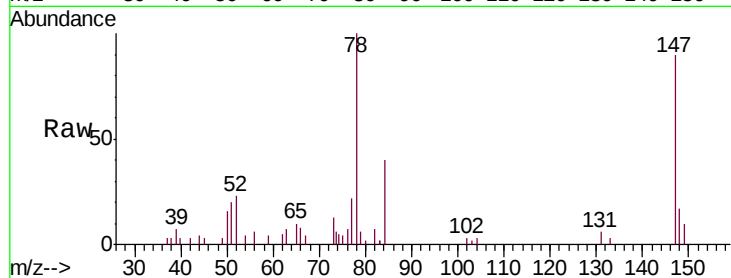
Instrument :

MSVOA_V

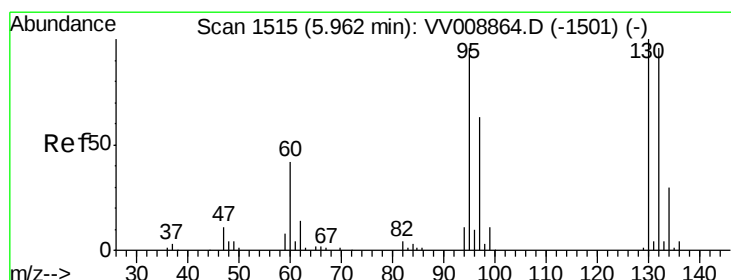
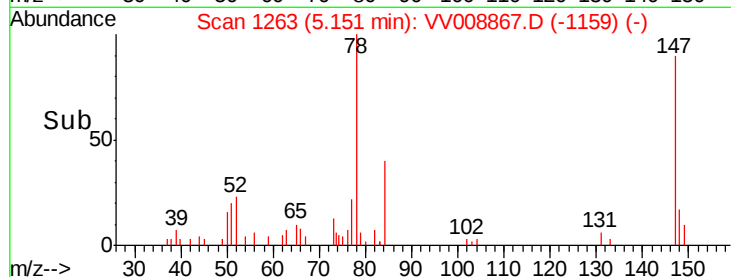
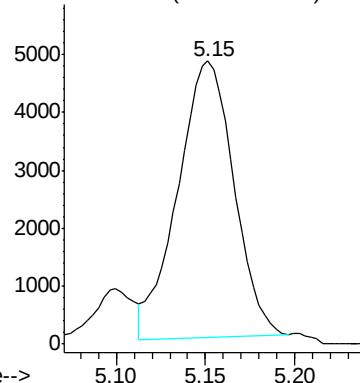
ClientSampleId :

MDL02

Tgt Ion: 78 Resp: 10478



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Trichloroethene

Concen: 1.268 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Tgt Ion: 95 Resp: 3639

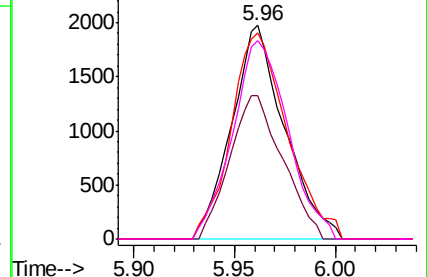
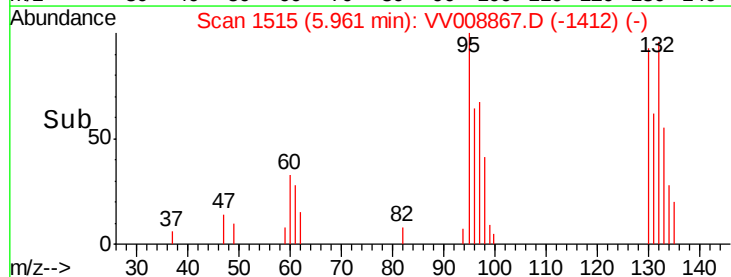
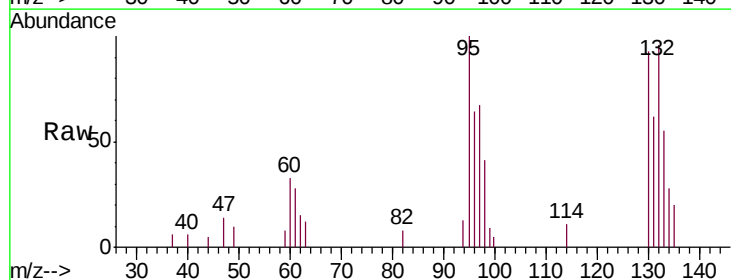
Ion	Ratio	Lower	Upper
95	100		
97	66.8	45.3	84.1
132	99.9	70.0	130.0
130	96.8	73.4	136.4

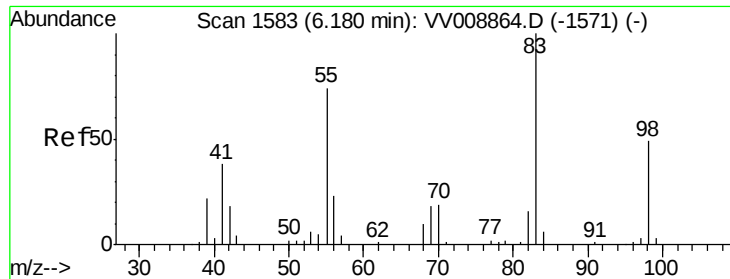
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

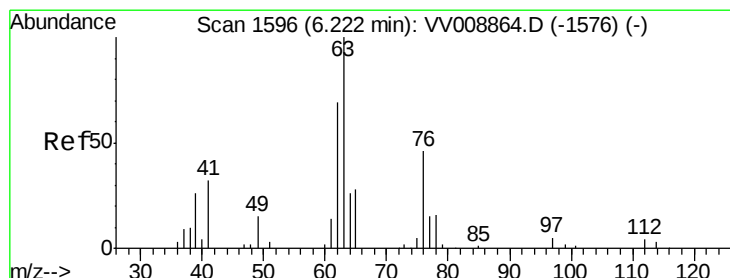
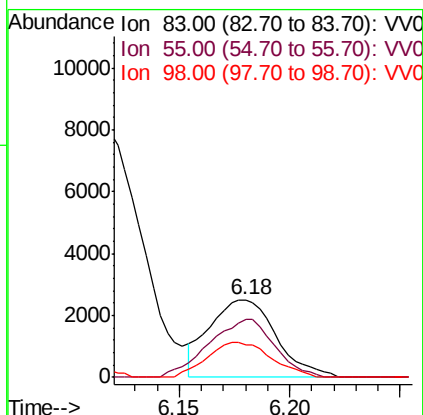
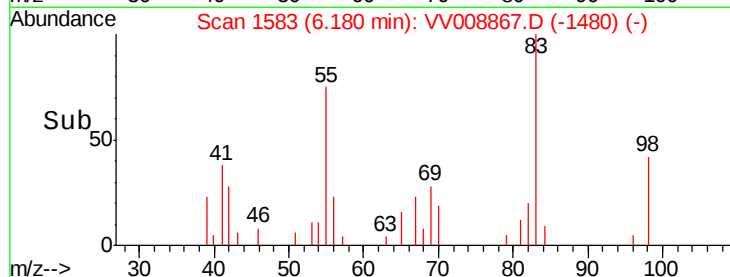
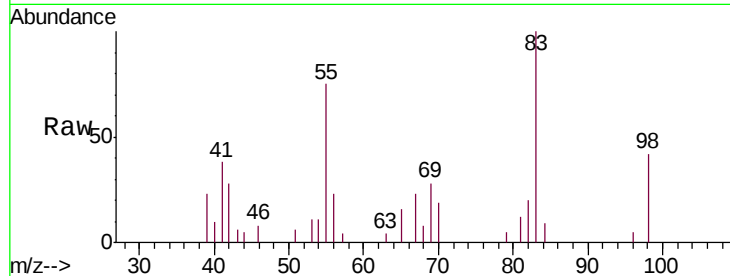




#36
Methylcyclohexane
Concen: 1.151 ug/L
RT: 6.18 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VV008867.D
Acq: 06 Dec 2018 20:32

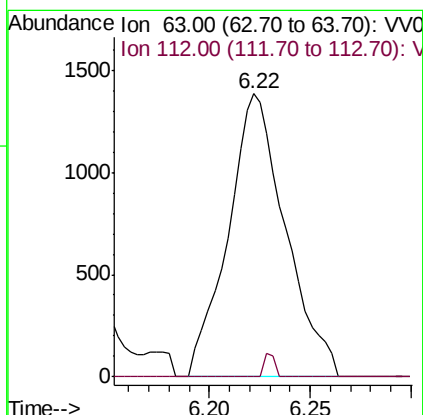
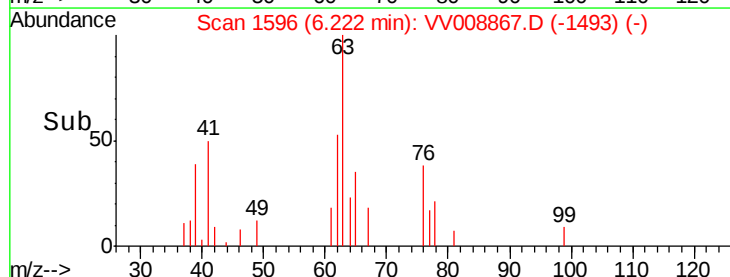
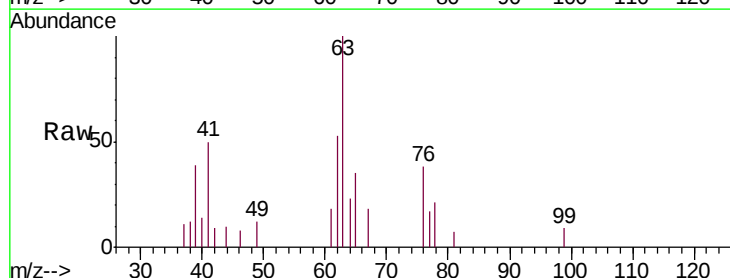
Instrument :
MSVOA_V
ClientSampled :
MDL02

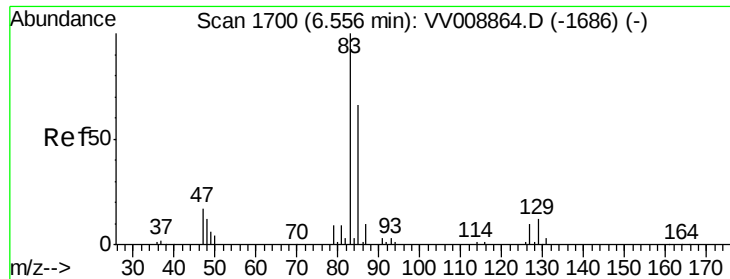
Tgt Ion: 83 Resp: 5268
Ion Ratio Lower Upper
83 100
55 73.5 58.2 87.2
98 43.2 37.8 56.8



#40
1,2-Dichloropropane
Concen: 1.202 ug/L
RT: 6.22 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VV008867.D
Acq: 06 Dec 2018 20:32

Tgt Ion: 63 Resp: 2747
Ion Ratio Lower Upper
63 100
112 1.6 3.8 5.8#





#41

Bromodichloromethane

Concen: 1.053 ug/L

RT: 6.56 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

MDL02

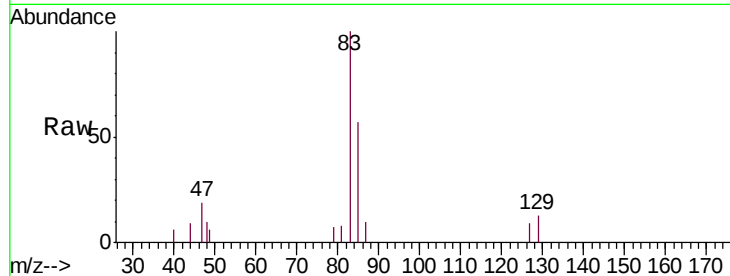
Tgt Ion: 83 Resp: 3172

Ion Ratio Lower Upper

83 100

85 56.9 45.3 84.1

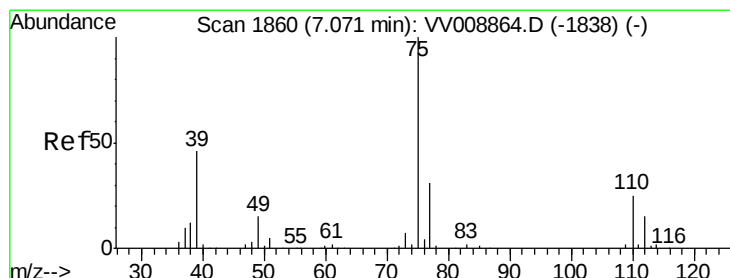
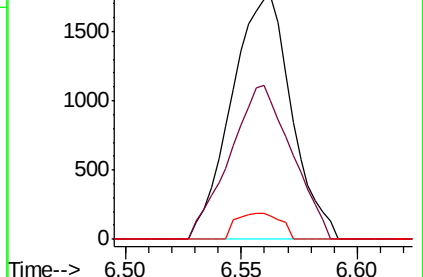
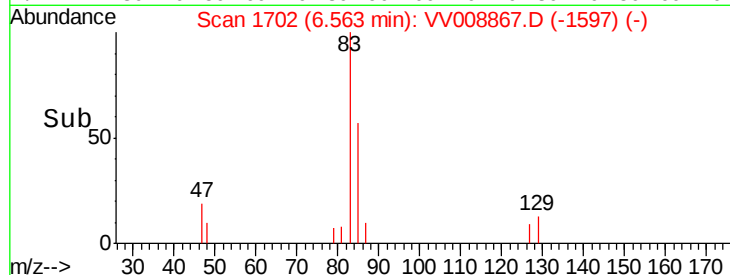
127 9.4 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VV008867.D (-1597) (-)

Ion 85.00 (84.70 to 85.70): VV008867.D (-1597) (-)

Ion 127.00 (126.70 to 127.70): VV008867.D (-1597) (-)



#42

cis-1,3-Dichloropropene

Concen: 1.098 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VV008867.D

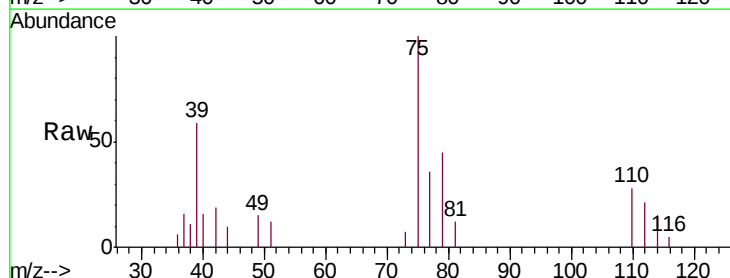
Acq: 06 Dec 2018 20:32

Tgt Ion: 75 Resp: 3674

Ion Ratio Lower Upper

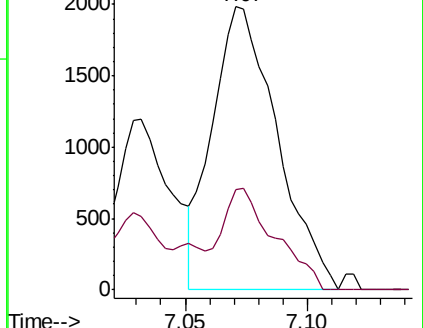
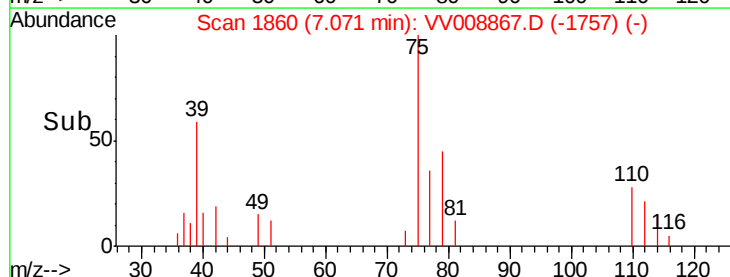
75 100

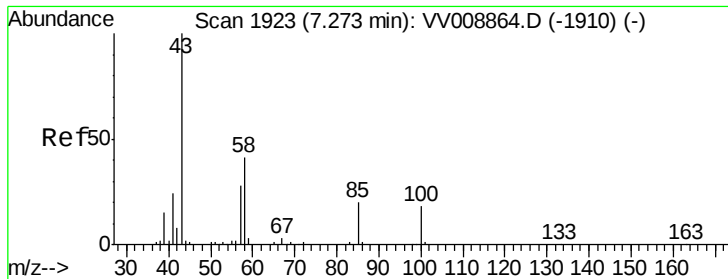
77 35.6 21.3 39.6



Abundance Ion 75.00 (74.70 to 75.70): VV008867.D (-1757) (-)

Ion 77.00 (76.70 to 77.70): VV008867.D (-1757) (-)





#43

4-Methyl-2-pentanone

Concen: 3.244 ug/L

RT: 7.28 min Scan# 1924

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampled :

MDL02

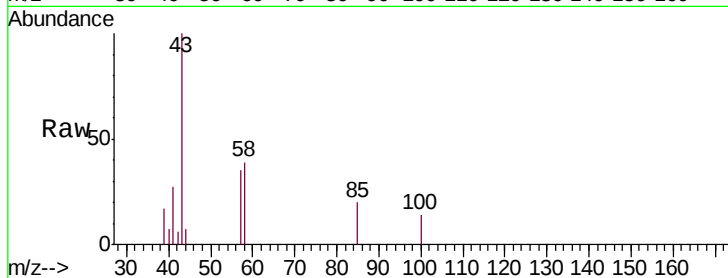
Tgt Ion: 43 Resp: 5011

Ion Ratio Lower Upper

43 100

58 37.7 32.2 48.4

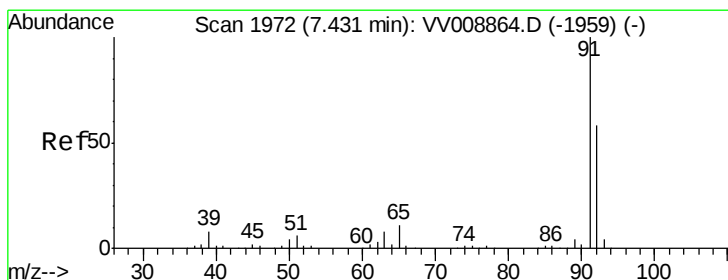
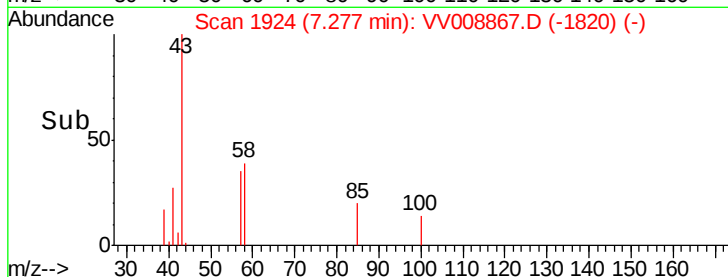
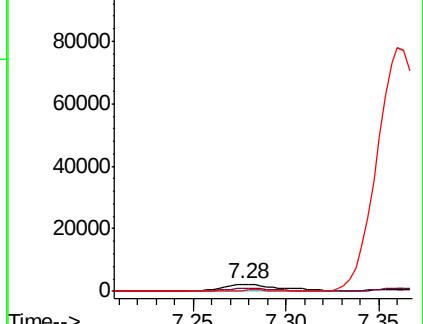
100 11.8 13.8 20.8#



Abundance Ion 43.00 (42.70 to 43.70): VV008867.D (-1910) (-)

Ion 58.00 (57.70 to 58.70): VV008867.D (-1910) (-)

Ion 100.00 (99.70 to 100.70): VV008867.D (-1910) (-)



#44

Toluene

Concen: 1.188 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008867.D

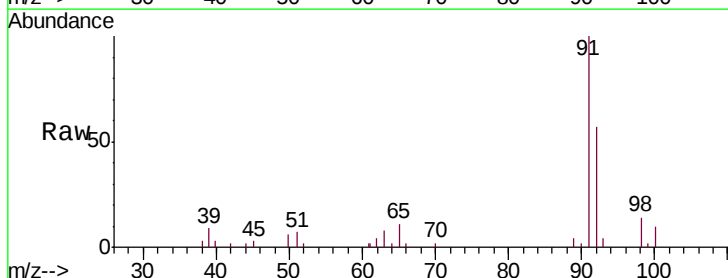
Acq: 06 Dec 2018 20:32

Tgt Ion: 91 Resp: 11860

Ion Ratio Lower Upper

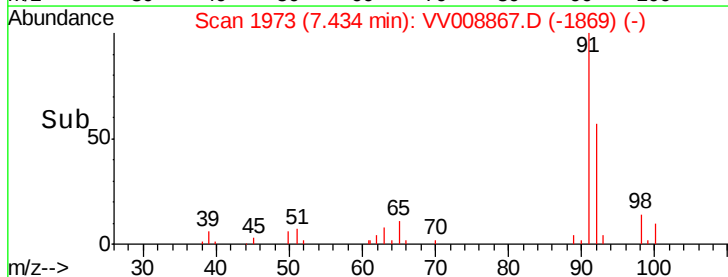
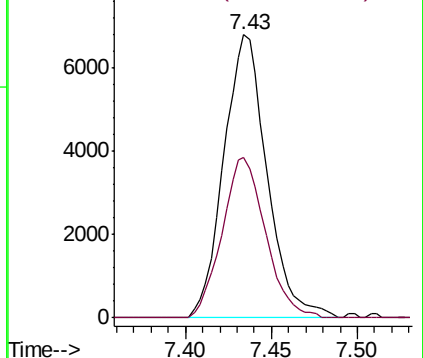
91 100

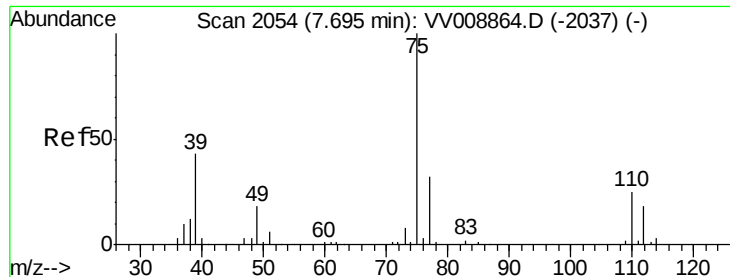
92 56.7 41.7 77.5



Abundance Ion 91.00 (90.70 to 91.70): VV008867.D (-1869) (-)

Ion 92.00 (91.70 to 92.70): VV008867.D (-1869) (-)





#45

trans-1,3-Dichloropropene

Concen: 1.225 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

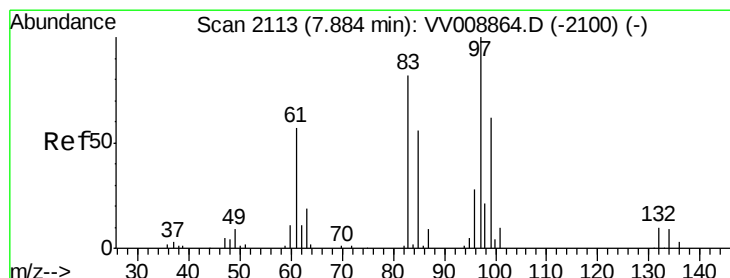
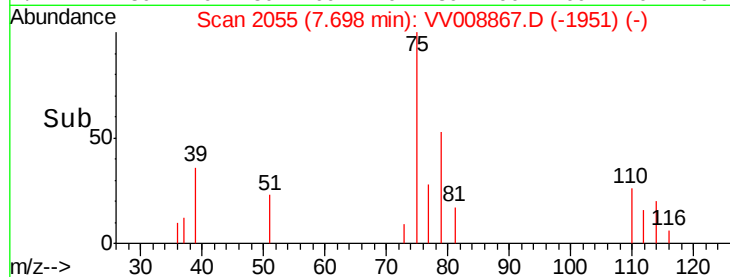
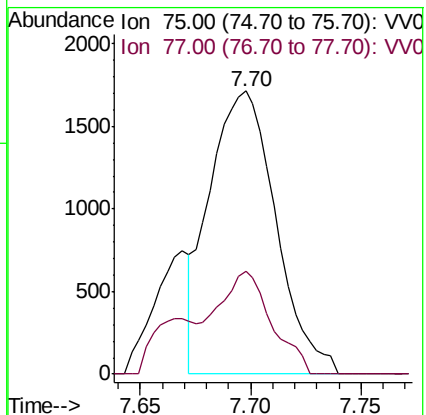
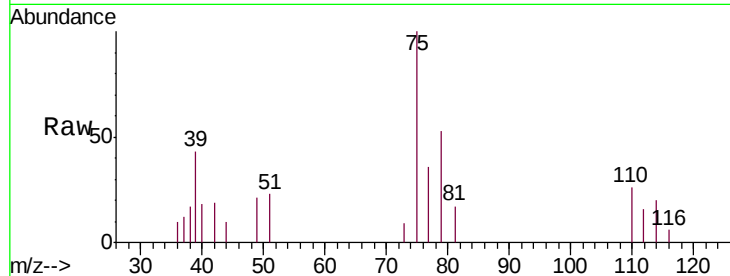
MDL02

Tgt Ion: 75 Resp: 3572

Ion Ratio Lower Upper

75 100

77 36.3 23.6 43.8



#46

1,1,2-Trichloroethane

Concen: 1.207 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Tgt Ion: 97 Resp: 2299

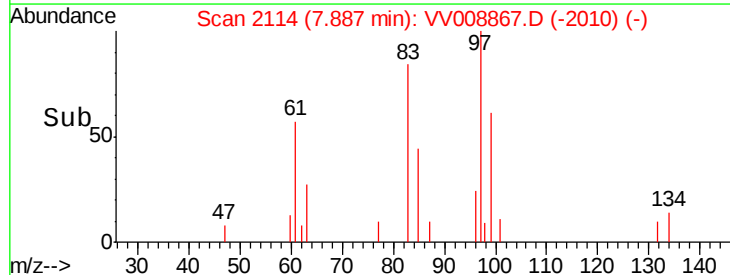
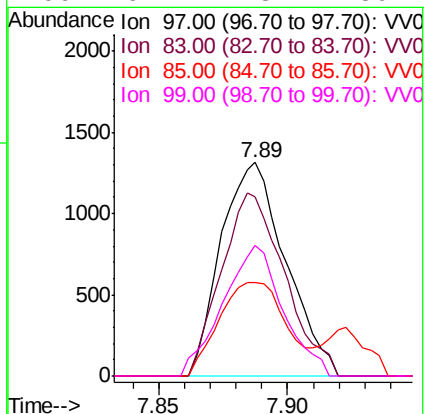
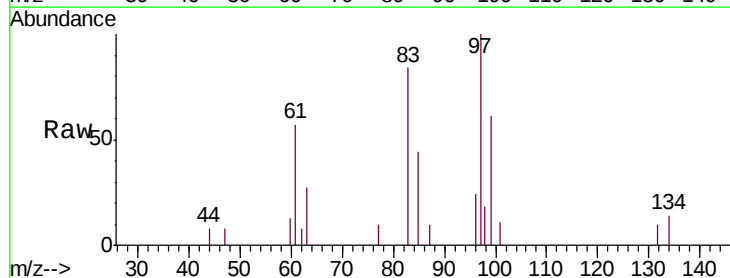
Ion Ratio Lower Upper

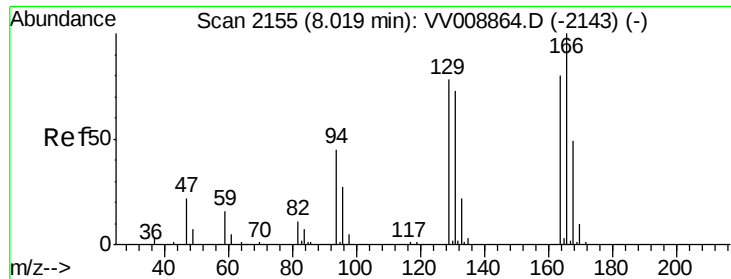
97 100

83 83.9 56.6 105.2

85 43.7 36.6 68.0

99 61.1 43.2 80.2





#47

Tetrachloroethene

Concen: 1.178 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tgt Ion:164 Resp: 2751

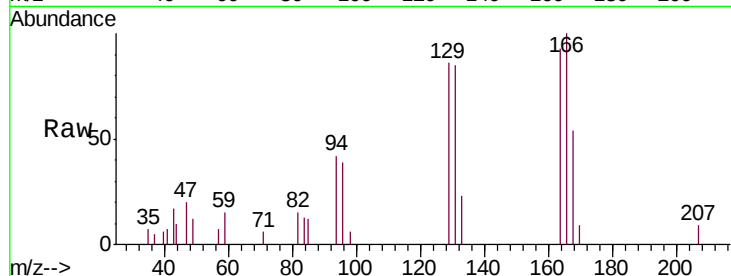
Ion Ratio Lower Upper

164 100

129 93.0 64.6 120.0

131 91.9 64.5 119.7

166 107.7 88.7 164.7

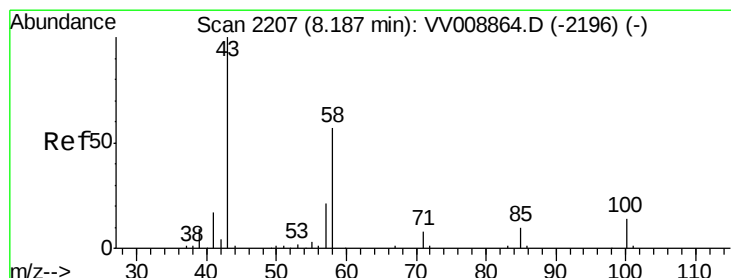
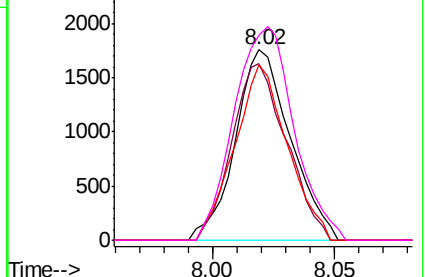
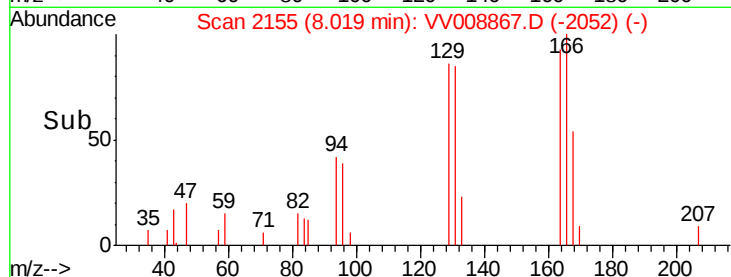


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

2-Hexanone

Concen: 3.717 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Tgt Ion: 43 Resp: 4750

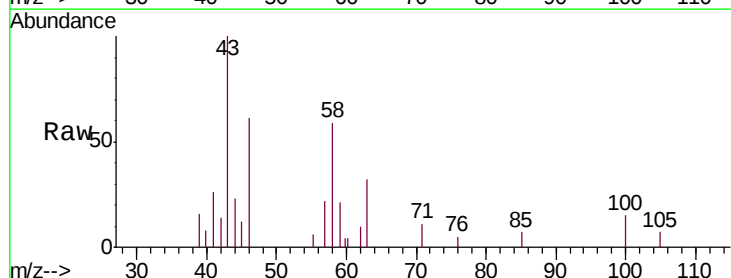
Ion Ratio Lower Upper

43 100

58 45.5 43.9 65.9

57 18.2 15.7 23.5

100 9.4 11.0 16.4#

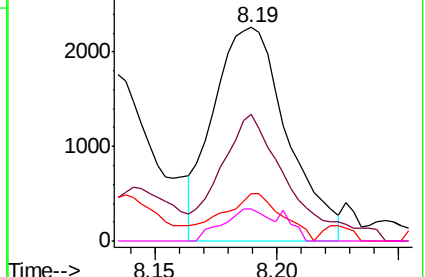
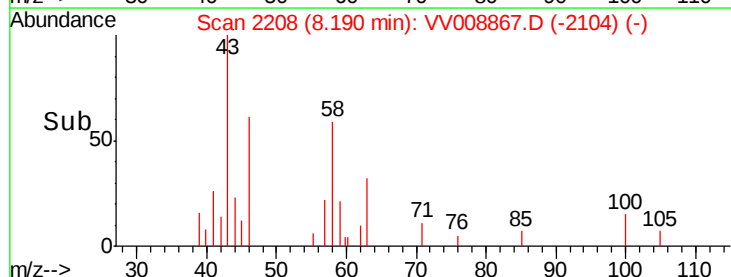


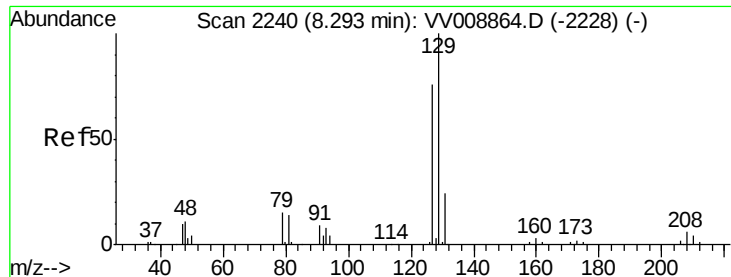
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#50

Dibromochloromethane

Concen: 1.035 ug/L

RT: 8.30 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampled :

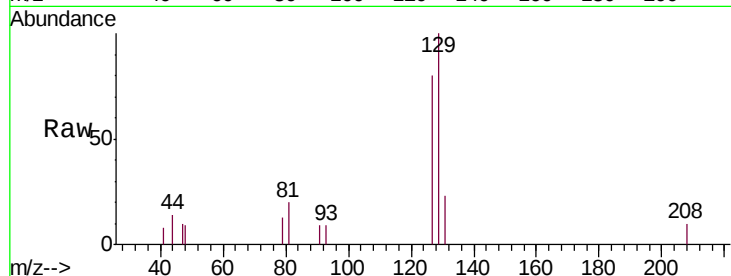
MDL02

Tgt Ion:129 Resp: 2259

Ion Ratio Lower Upper

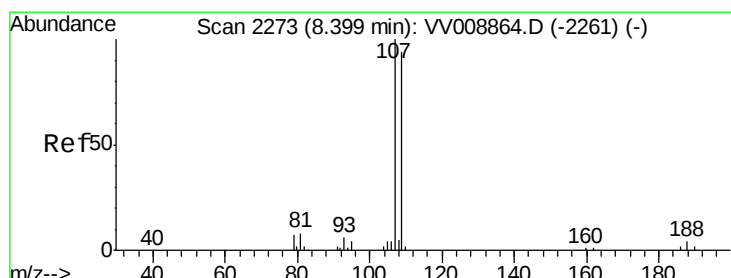
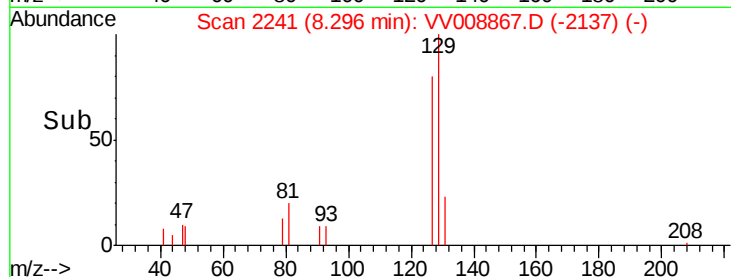
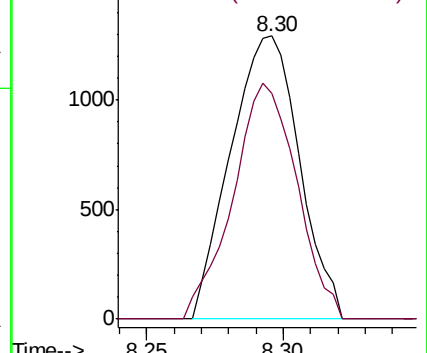
129 100

127 80.0 53.5 99.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 1.140 ug/L

RT: 8.40 min Scan# 2274

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

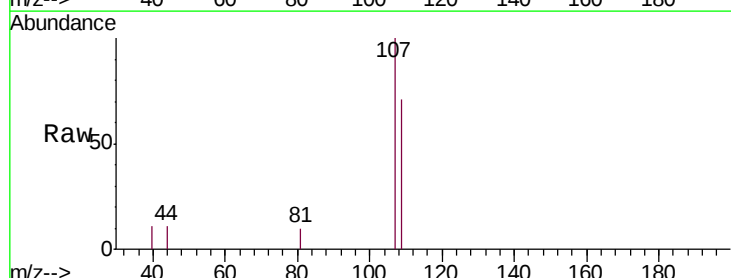
Tgt Ion:107 Resp: 2180

Ion Ratio Lower Upper

107 100

109 70.8 65.8 122.2

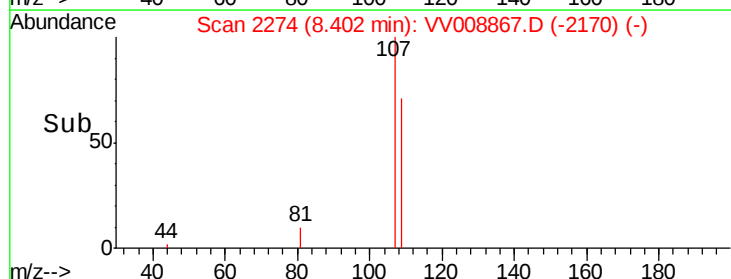
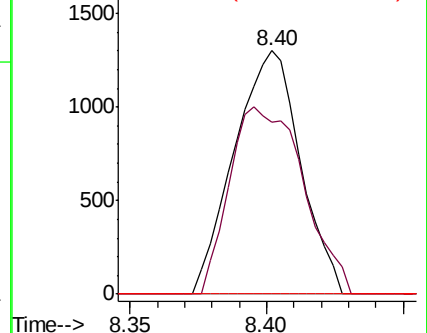
188 0.0 3.0 4.6#

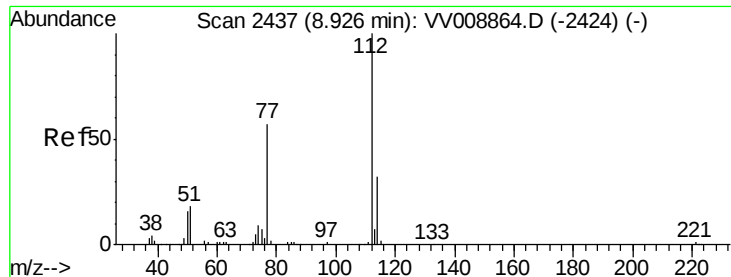


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#52

Chlorobenzene

Concen: 1.145 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampled :

MDL02

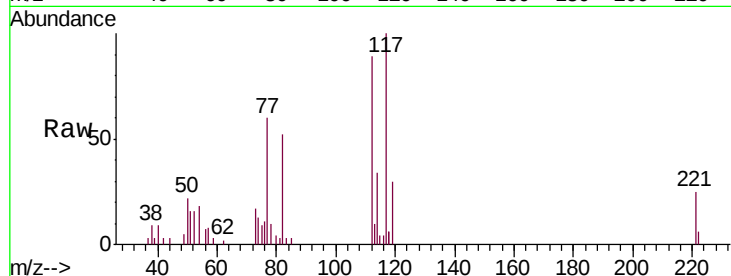
Tgt Ion: 112 Resp: 7446

Ion Ratio Lower Upper

112 100

77 67.7 44.6 66.8#

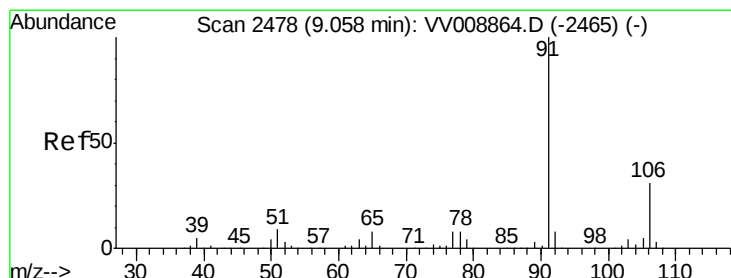
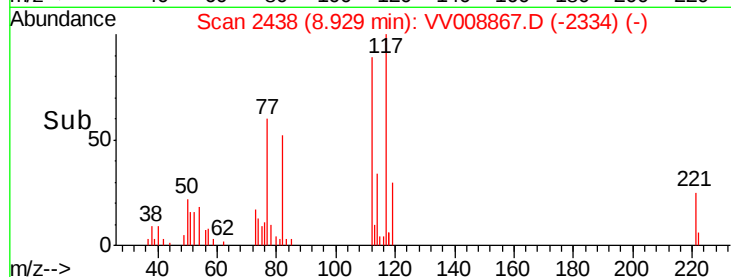
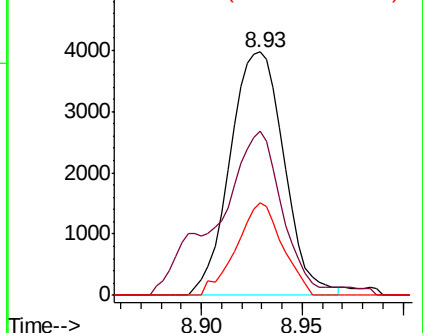
114 38.2 22.6 42.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 1.077 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. -0.00 min

Lab File: VV008867.D

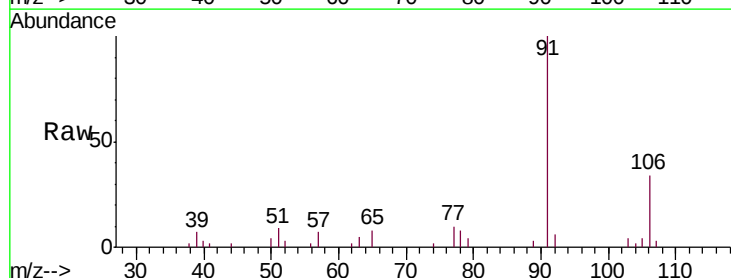
Acq: 06 Dec 2018 20:32

Tgt Ion: 91 Resp: 11664

Ion Ratio Lower Upper

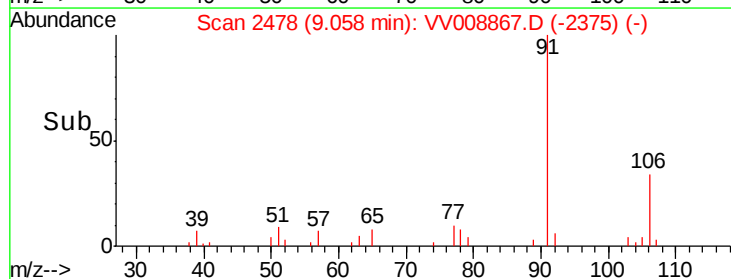
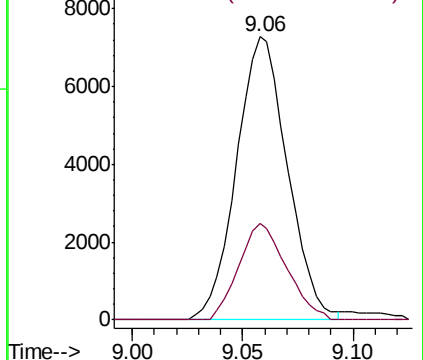
91 100

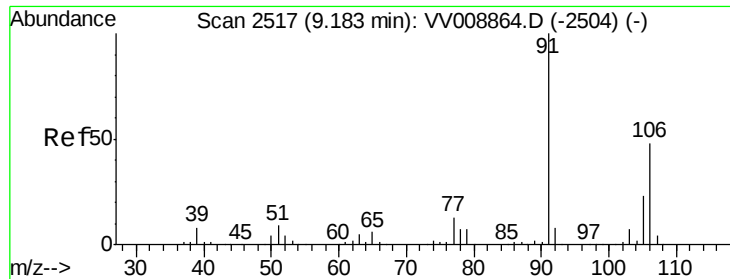
106 34.1 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 1.055 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampled :

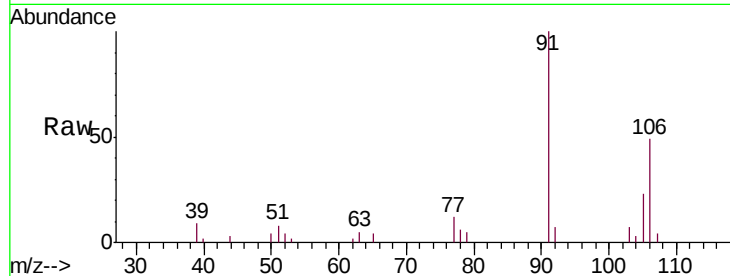
MDL02

Tgt Ion:106 Resp: 4327

Ion Ratio Lower Upper

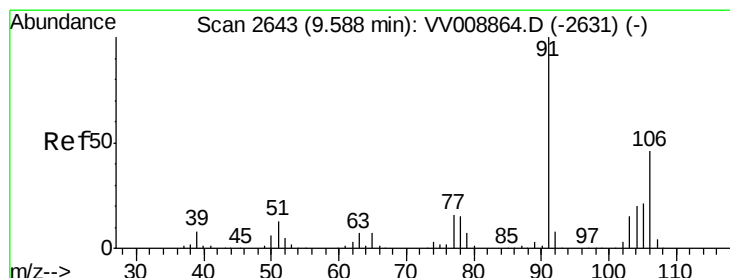
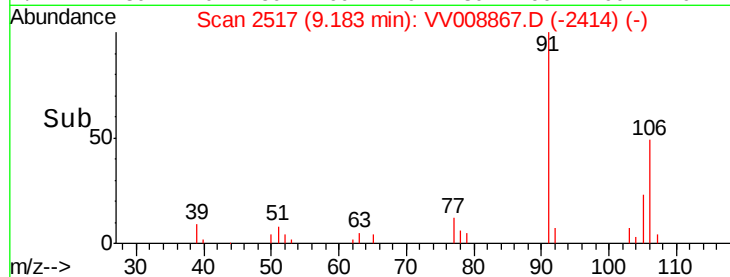
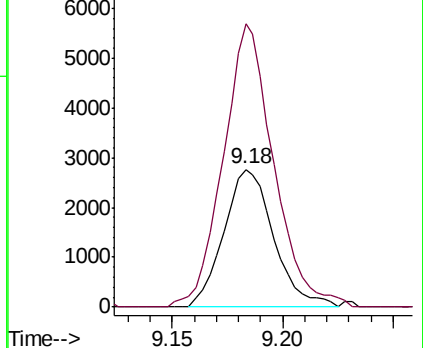
106 100

91 205.9 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

o-xylene

Concen: 1.097 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV008867.D

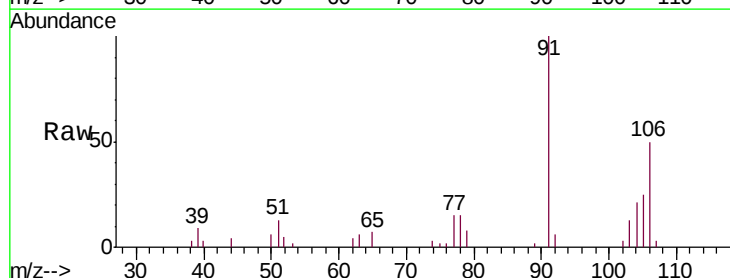
Acq: 06 Dec 2018 20:32

Tgt Ion:106 Resp: 4182

Ion Ratio Lower Upper

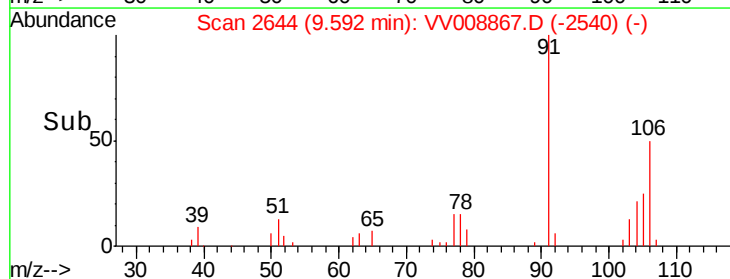
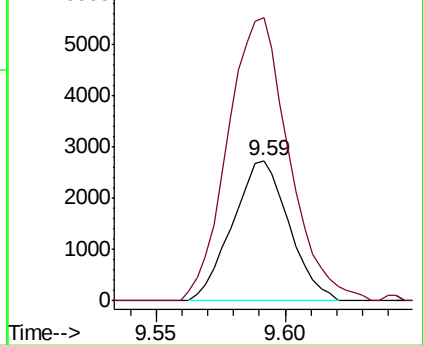
106 100

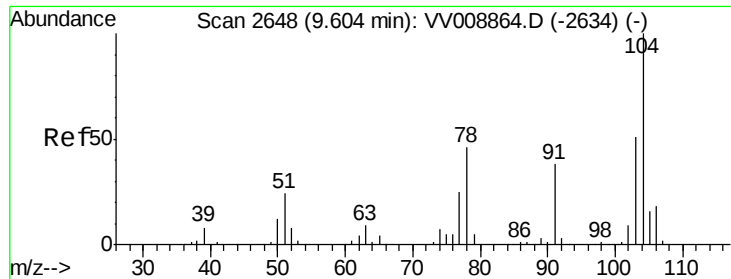
91 201.9 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Styrene

Concen: 0.972 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

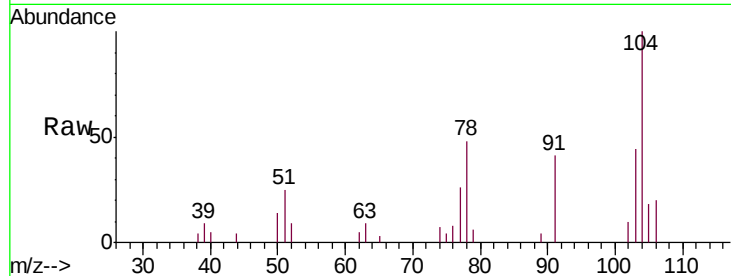
MDL02

Tgt Ion:104 Resp: 5978

Ion Ratio Lower Upper

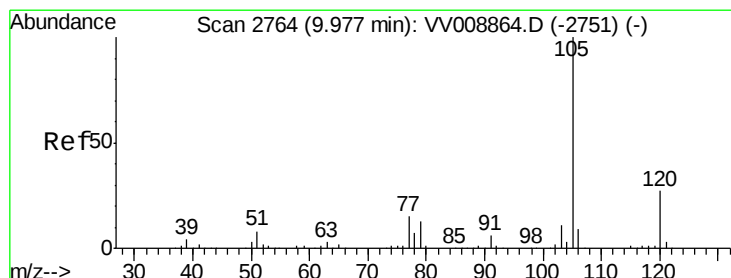
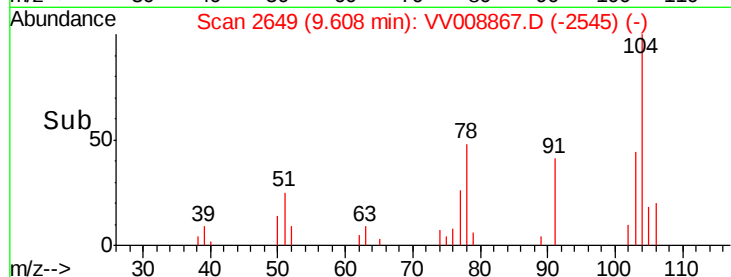
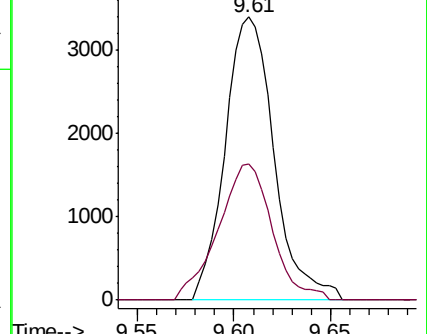
104 100

78 48.1 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#57

Isopropylbenzene

Concen: 1.037 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

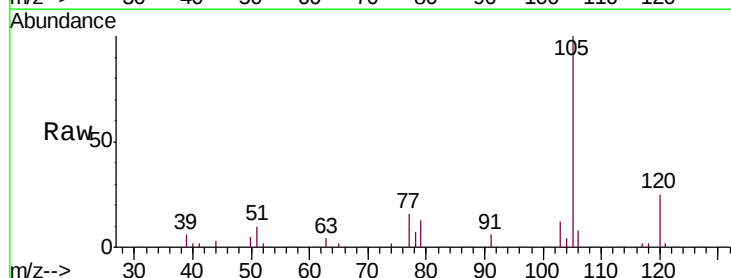
Tgt Ion:105 Resp: 10737

Ion Ratio Lower Upper

105 100

120 26.6 21.7 32.5

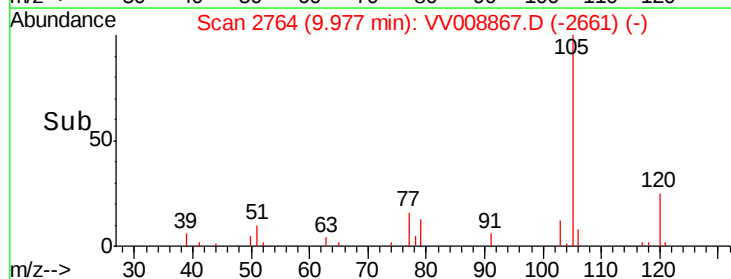
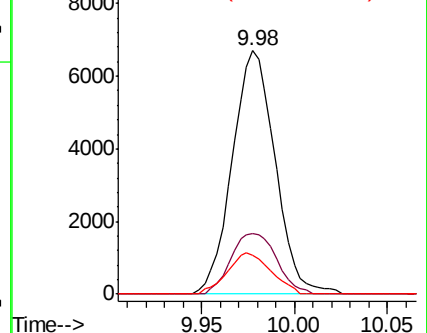
77 17.1 12.4 18.6

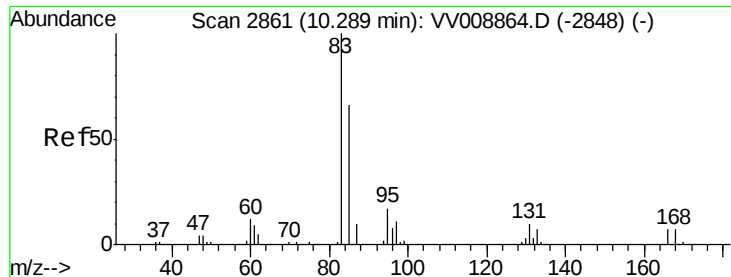


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0

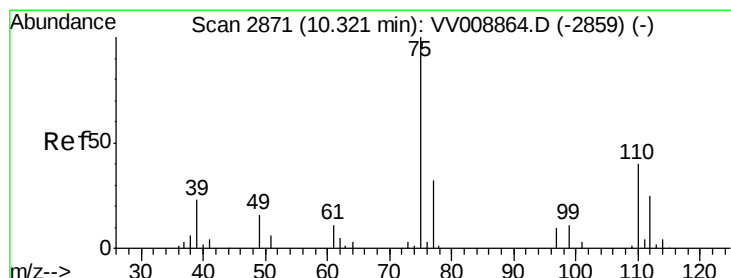
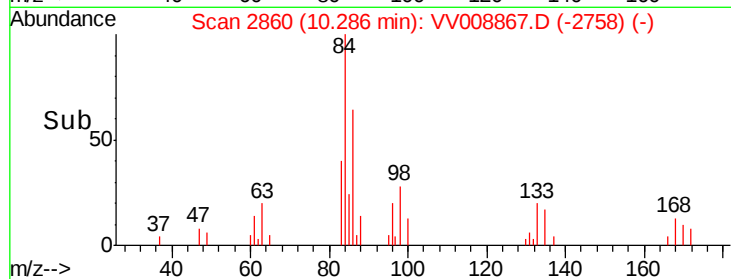
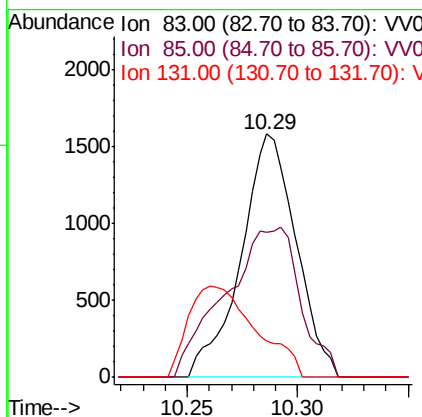
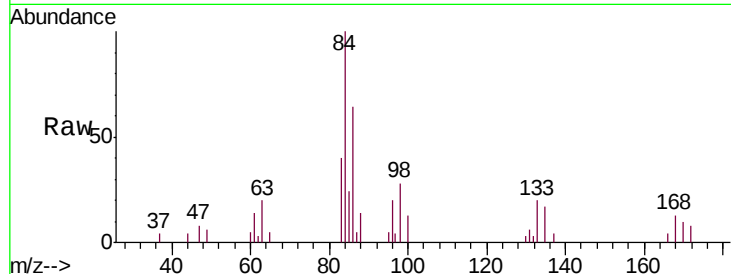




#58
 1,1,2,2-Tetrachloroethane
 Concen: 1.336 ug/L
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.00 min
 Lab File: VV008867.D
 Acq: 06 Dec 2018 20:32

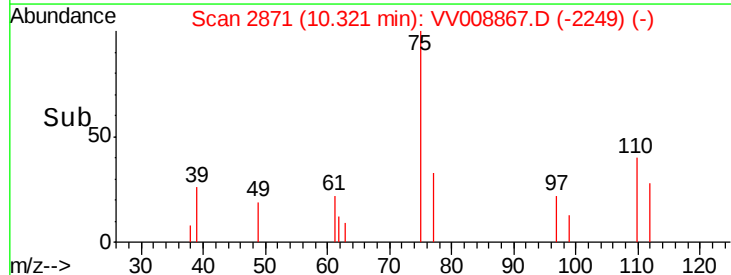
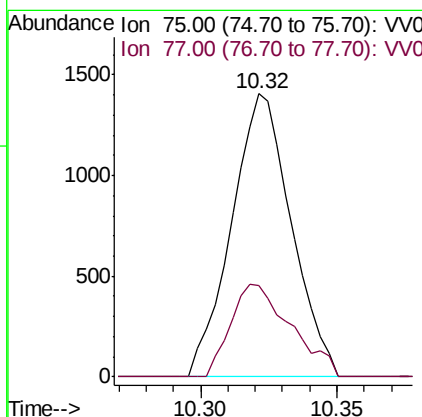
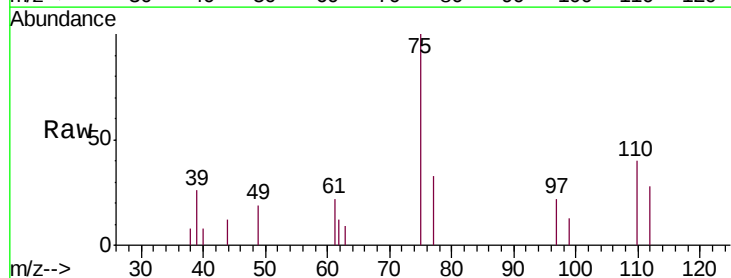
Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

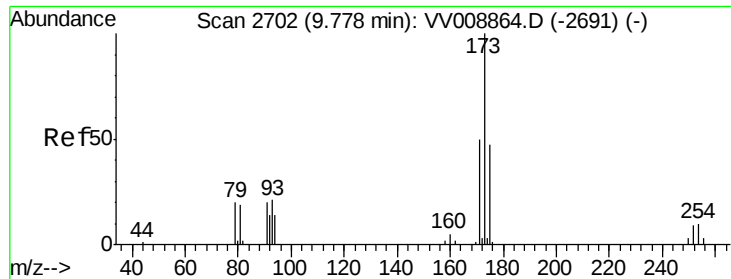
Tgt Ion: 83 Resp: 2750
 Ion Ratio Lower Upper
 83 100
 85 59.8 44.3 82.3
 131 14.9 7.8 11.8#



#59
 1,2,3-Trichloropropane
 Concen: 1.199 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VV008867.D
 Acq: 06 Dec 2018 20:32

Tgt Ion: 75 Resp: 2135
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.6 38.4





#62

Bromoform

Concen: 1.000 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

MDL02

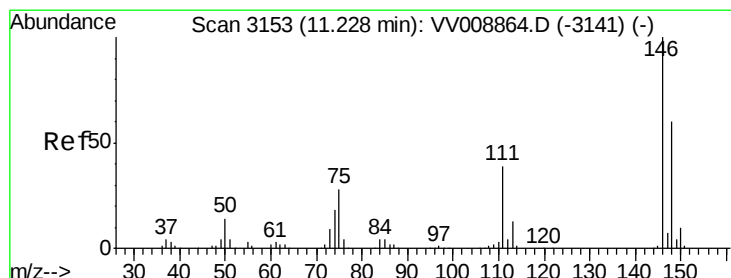
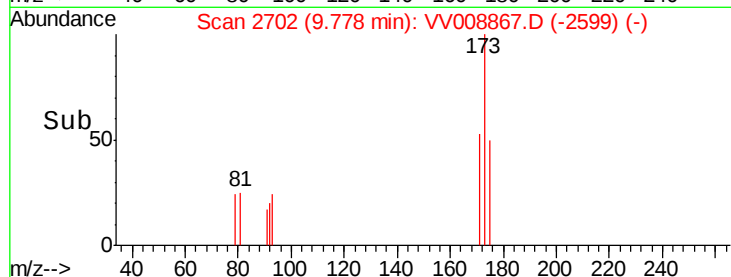
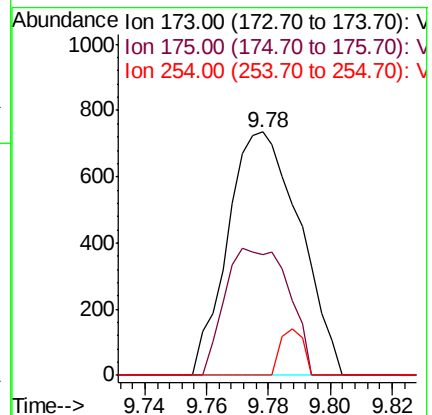
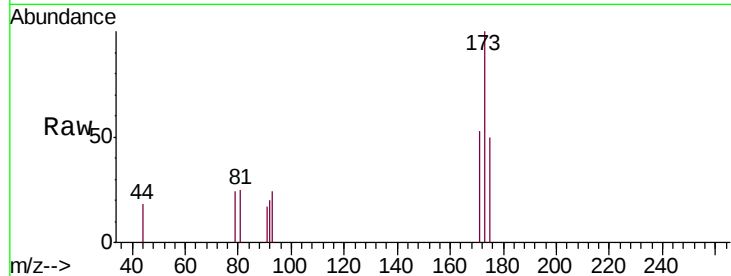
Tgt Ion:173 Resp: 1192

Ion Ratio Lower Upper

173 100

175 28.8 37.7 56.5#

254 6.0 7.1 10.7#



#63

1,3-Dichlorobenzene

Concen: 1.238 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

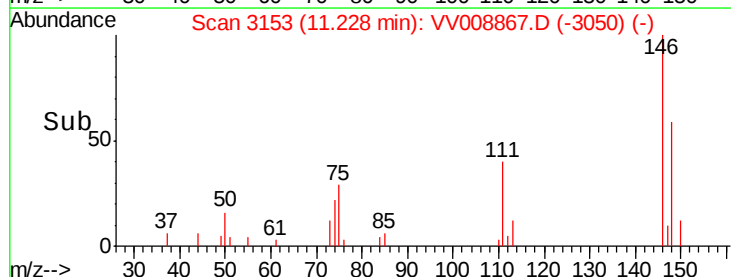
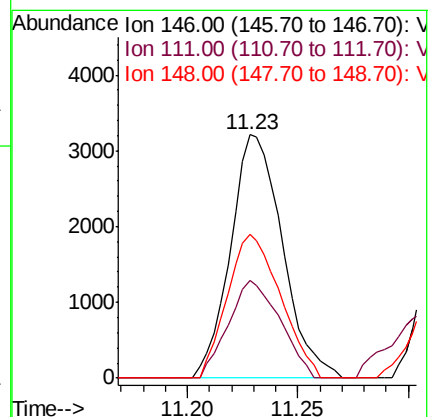
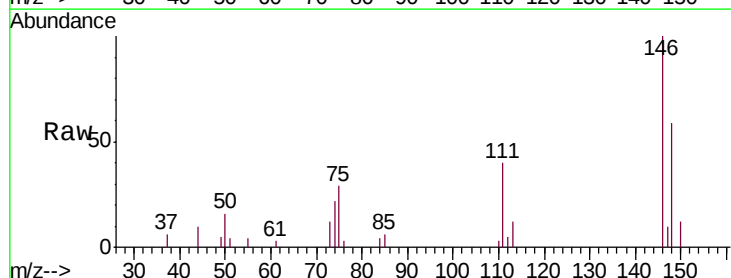
Tgt Ion:146 Resp: 5264

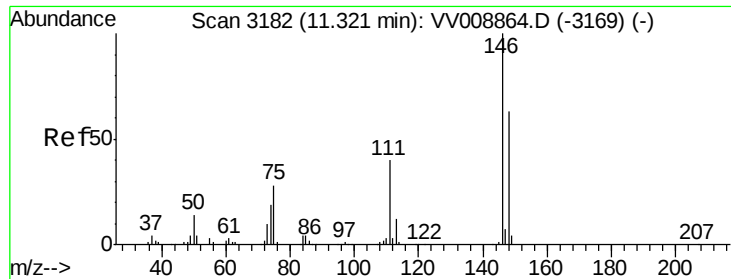
Ion Ratio Lower Upper

146 100

111 39.9 27.5 51.1

148 58.9 44.0 81.8





#64

1,4-Dichlorobenzene

Concen: 1.209 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

MDL02

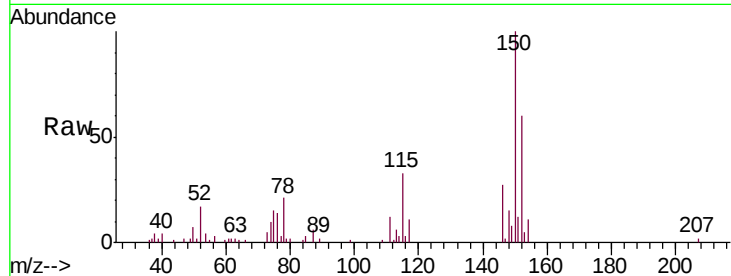
Tgt Ion:146 Resp: 5293

Ion Ratio Lower Upper

146 100

111 45.9 26.8 49.8

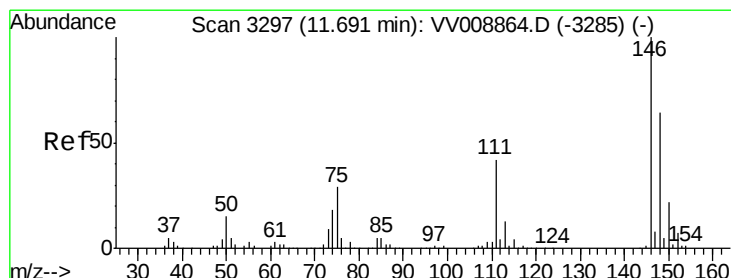
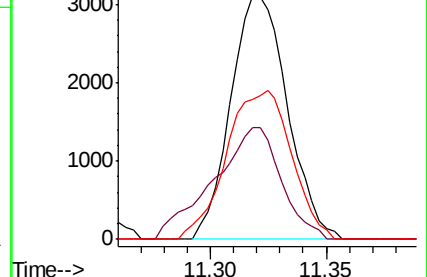
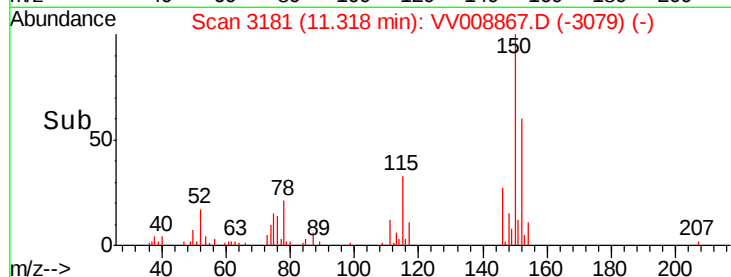
148 57.4 45.8 85.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 1.295 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

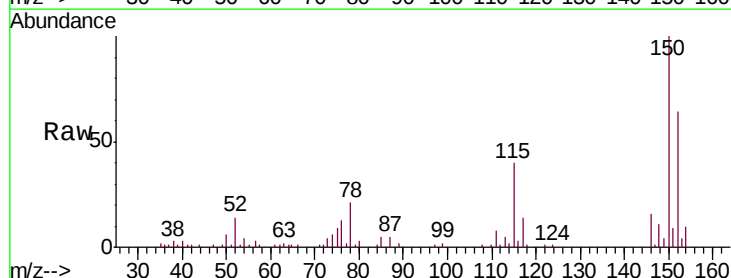
Tgt Ion:146 Resp: 5077

Ion Ratio Lower Upper

146 100

111 50.3 34.2 51.4

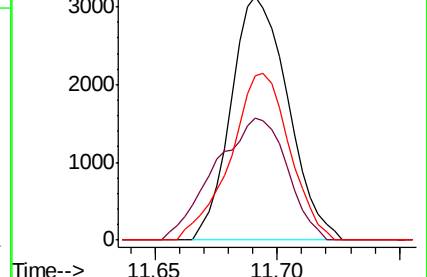
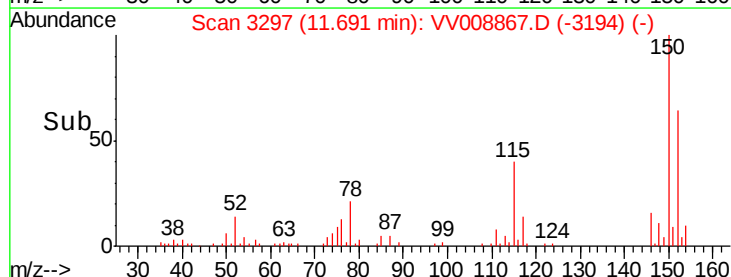
148 67.4 51.0 76.6

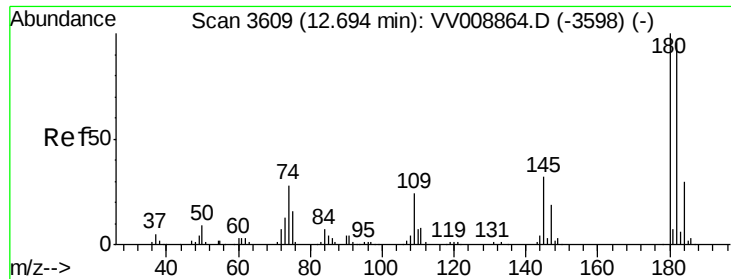


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

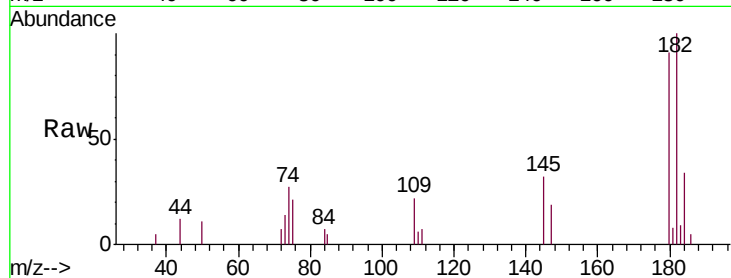




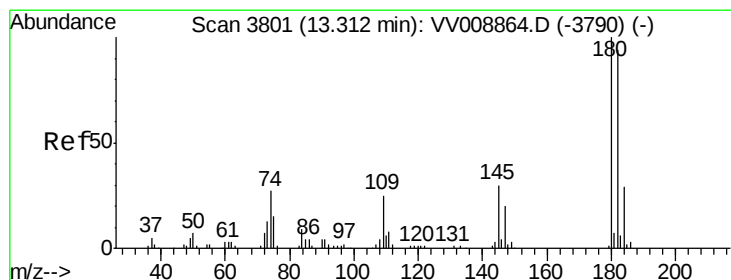
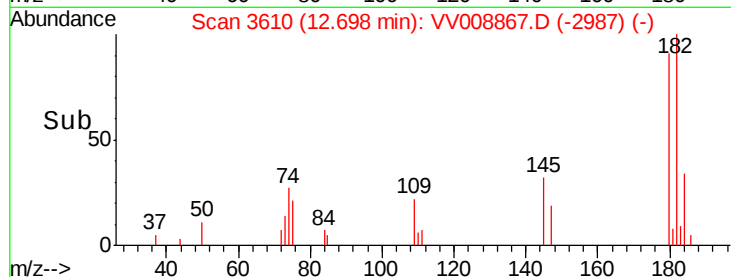
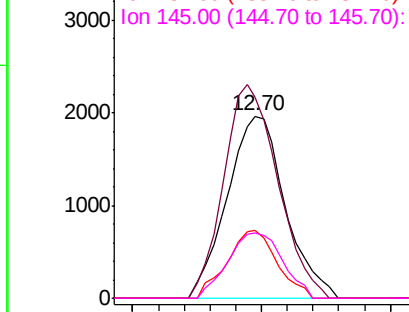
#67
 1,3,5-Trichlorobenzene
 Concen: 1.006 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV008867.D
 Acq: 06 Dec 2018 20:32

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tgt Ion:180 Resp: 3090
 Ion Ratio Lower Upper
 180 100
 182 109.0 75.9 113.9
 184 31.9 23.8 35.6
 145 34.0 24.2 36.4

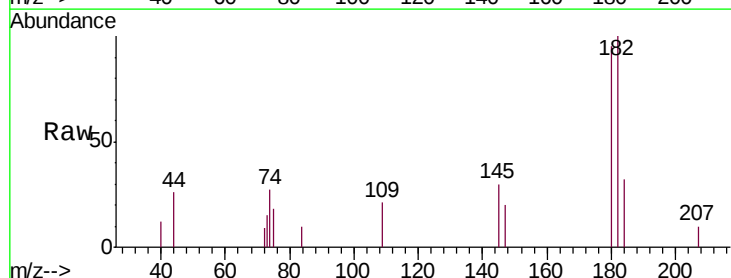


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

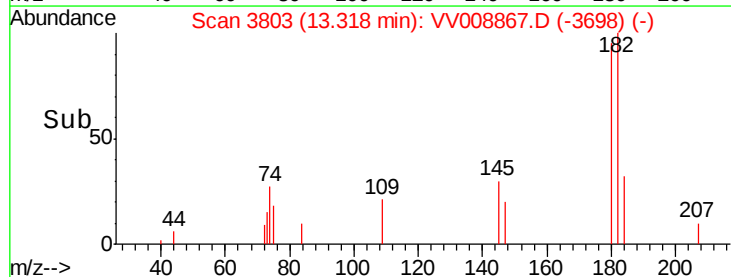
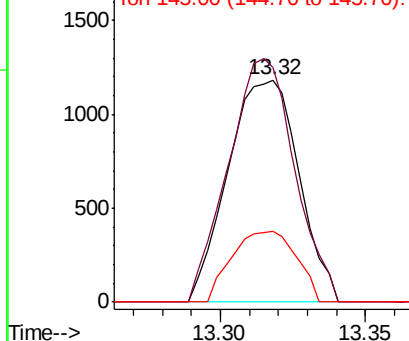


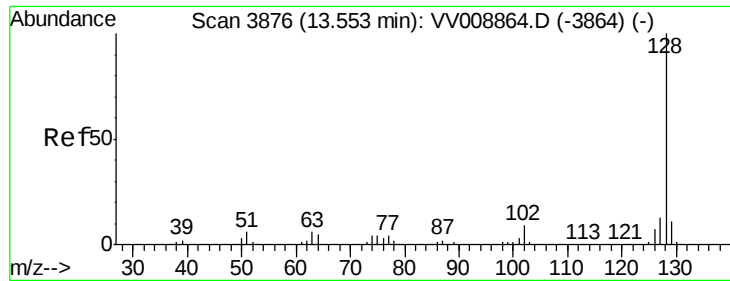
#68
 1,2,4-trichlorobenzene
 Concen: 0.933 ug/L
 RT: 13.32 min Scan# 3803
 Delta R.T. 0.01 min
 Lab File: VV008867.D
 Acq: 06 Dec 2018 20:32

Tgt Ion:180 Resp: 2008
 Ion Ratio Lower Upper
 180 100
 182 102.7 77.4 116.0
 145 29.1 25.6 38.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 0.784 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

Instrument :

MSVOA_V

ClientSampleId :

MDL02

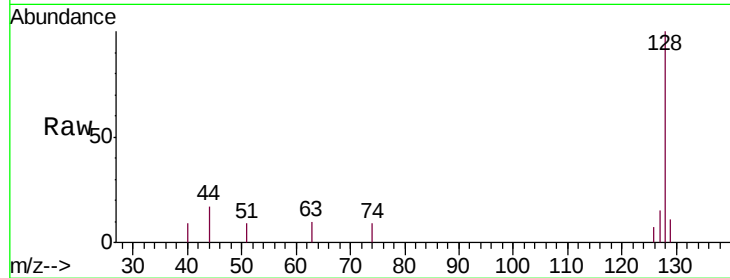
Tgt Ion:128 Resp: 2906

Ion Ratio Lower Upper

128 100

129 7.7 8.6 13.0#

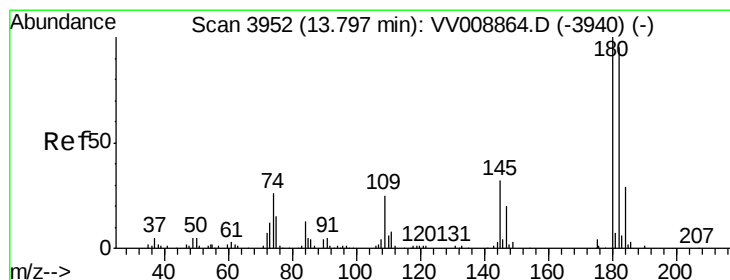
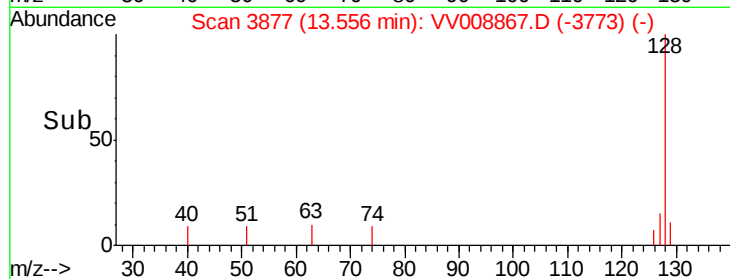
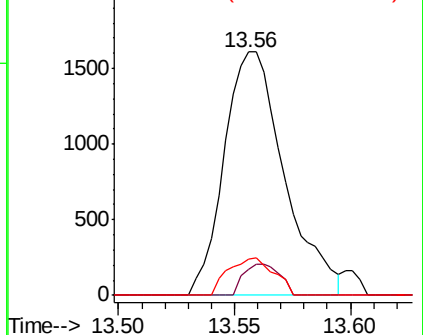
127 11.7 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.900 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV008867.D

Acq: 06 Dec 2018 20:32

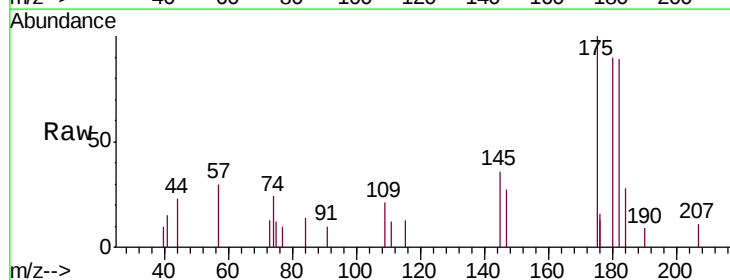
Tgt Ion:180 Resp: 1789

Ion Ratio Lower Upper

180 100

182 103.7 76.1 114.1

145 35.2 26.7 40.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

