

Data File : VW009647.D
Acq On : 02 Apr 2019 10:18
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

Quant Time: Apr 03 04:03:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 02 09:09:28 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	473304	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	446393	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	231065	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	112045	19.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.24%
7) Chloroethane-d5	2.89	69	128230	19.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.52%
10) 1,1-Dichloroethene-d2	4.01	63	301547	24.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	98.68%
20) 2-Butanone-d5	7.07	46	126278	53.99	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.98%
24) Chloroform-d	7.64	84	347643	26.91	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.64%
26) 1,2-Dichloroethane-d4	8.30	65	208340	26.78	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	107.12%
29) Benzene-d6	8.27	84	600235	24.38	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.52%
33) 1,2-Dichloropropane-d6	9.27	67	192001	25.97	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	103.88%
37) Toluene-d8	10.32	98	554449	24.36	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.44%
38) trans-1,3-Dichloropropene-	10.57	79	90493	24.37	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.48%
39) 2-Hexanone-d5	10.93	63	96478	53.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.74%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	201413	27.66	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	110.64%
61) 1,2-Dichlorobenzene-d4	13.86	152	221694	25.02	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.08%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	136919	21.960	ug/L	93
3) Chloromethane	2.21	50	142940	21.608	ug/L	99
5) Vinyl chloride	2.37	62	201009	29.522	ug/L	97
6) Bromomethane	2.78	94	139452	24.446	ug/L	97
8) Chloroethane	2.92	64	141811	25.174	ug/L	90
9) Trichlorofluoromethane	3.26	101	144900	26.941	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	167799	27.016	ug/L #	68
12) 1,1-Dichloroethene	4.03	96	162041	27.802	ug/L	92
13) Acetone	4.12	43	105248	54.869	ug/L	98
14) Carbon disulfide	4.37	76	437136	27.868	ug/L	98
16) Methylene chloride	4.91	84	165744	24.014	ug/L	96
17) Methyl tert-butyl Ether	5.42	73	223379	27.087	ug/L #	90
18) trans-1,2-Dichloroethene	5.41	96	164370	26.824	ug/L	97
19) 1,1-Dichloroethane	6.21	63	324213	29.017	ug/L	97
21) 2-Butanone	7.16	43	135628	51.209	ug/L	94
22) cis-1,2-Dichloroethene	7.16	96	178137	26.835	ug/L	91
23) Bromochloromethane	7.51	128	80883	25.404	ug/L	87

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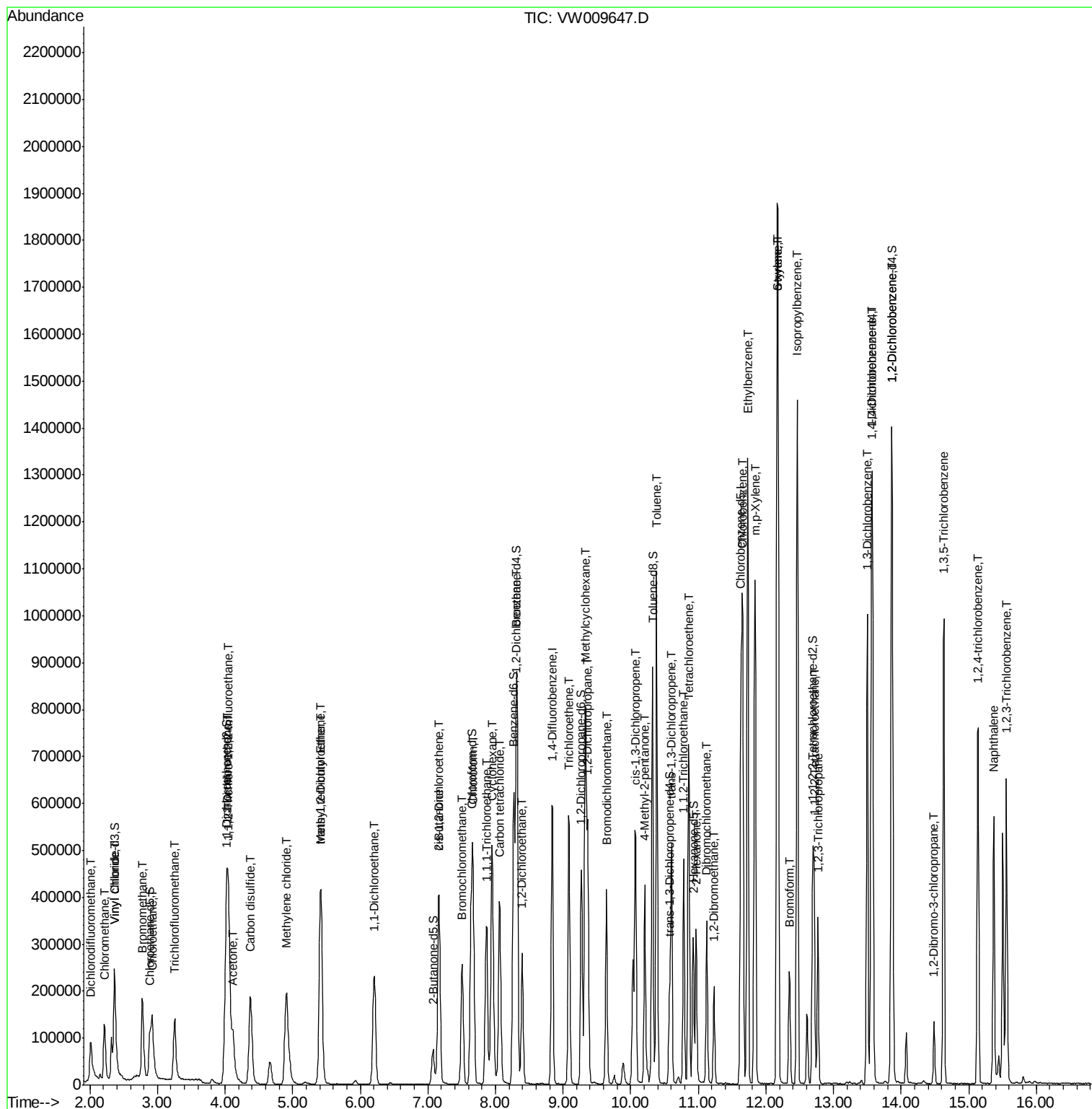
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.67	83	338172	28.902	ug/L	99
27) 1,2-Dichloroethane	8.40	62	252045	28.892	ug/L	96
30) Cyclohexane	7.95	56	278758	27.496	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	270557	30.347	ug/L	99
32) Carbon tetrachloride	8.06	117	271204	30.150	ug/L	98
34) Benzene	8.32	78	692351	28.337	ug/L	100
35) Trichloroethene	9.09	95	181060	27.811	ug/L	97
36) Methylcyclohexane	9.33	83	307069	27.262	ug/L	97
40) 1,2-Dichloropropane	9.37	63	176911	28.217	ug/L	100
41) Bromodichloromethane	9.64	83	248369	28.590	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	283898	27.801	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	277206	48.793	ug/L	99
44) Toluene	10.38	91	758305	28.386	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	246788	27.782	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	133270	26.644	ug/L	97
47) Tetrachloroethene	10.86	164	144145	26.203	ug/L	98
49) 2-Hexanone	10.97	43	208687	52.153	ug/L	100
50) Dibromochloromethane	11.13	129	164687	26.671	ug/L	98
51) 1,2-Dibromoethane	11.23	107	131718	25.976	ug/L	97
52) Chlorobenzene	11.66	112	478720	27.940	ug/L	99
53) Ethylbenzene	11.73	91	869620	28.955	ug/L	99
54) m,p-Xylene	11.84	106	326058	28.575	ug/L	93
55) o-xylene	12.16	106	314213	28.227	ug/L	98
56) Styrene	12.18	104	546770	28.788	ug/L	96
57) Isopropylbenzene	12.46	105	884125	29.649	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	178916	26.514	ug/L	100
59) 1,2,3-Trichloropropane	12.77	75	132967	26.552	ug/L	99
62) Bromoform	12.35	173	99612	25.514	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	367754	26.705	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	387052	27.185	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	356463	27.142	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	31151	24.202	ug/L	86
67) 1,3,5-Trichlorobenzene	14.63	180	283647	26.407	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	227079	25.168	ug/L	99
69) Naphthalene	15.37	128	450178	24.066	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	210214	24.875	ug/L	98

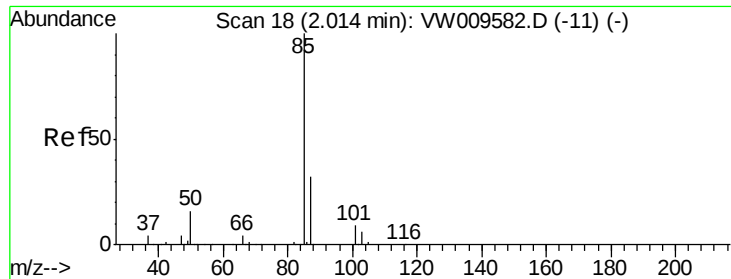
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.960 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampled :

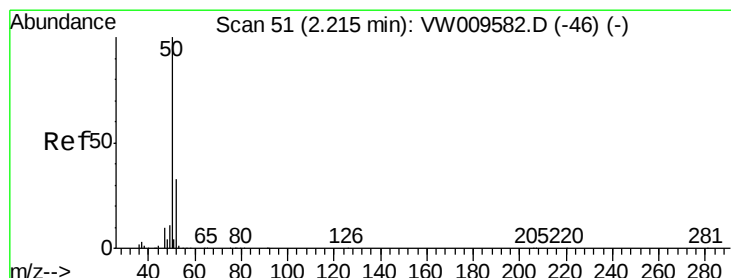
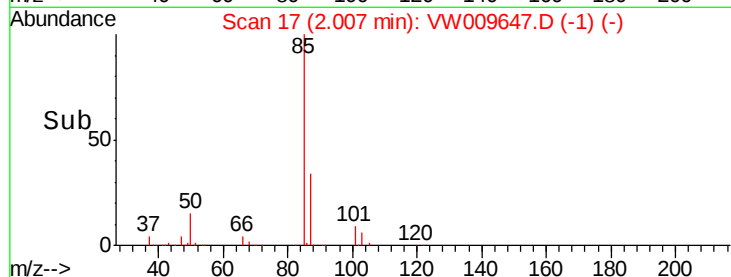
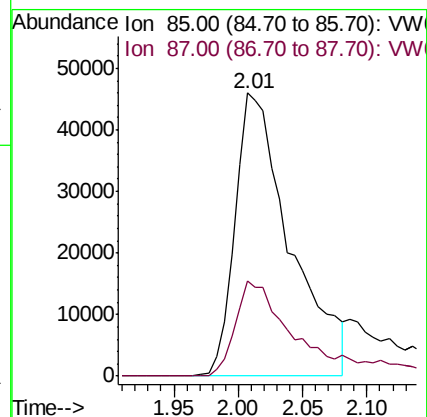
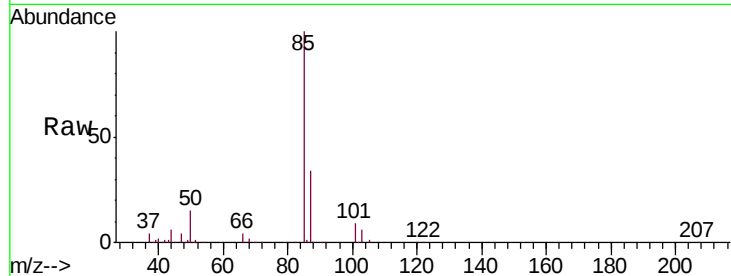
VSTD02508

Tgt Ion: 85 Resp: 136919

Ion Ratio Lower Upper

85 100

87 31.8 19.5 36.3



#3

Chloromethane

Concen: 21.608 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW009647.D

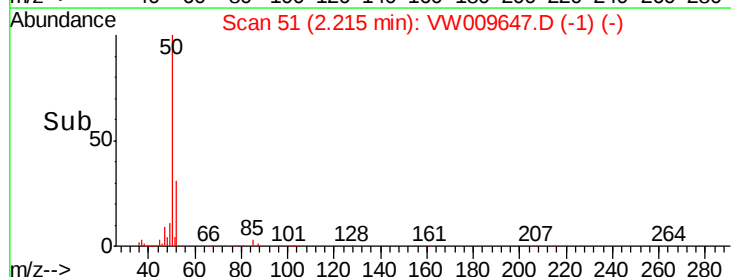
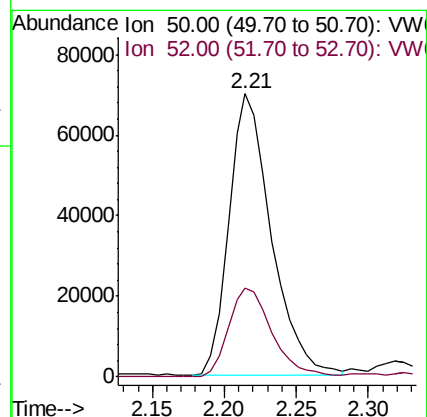
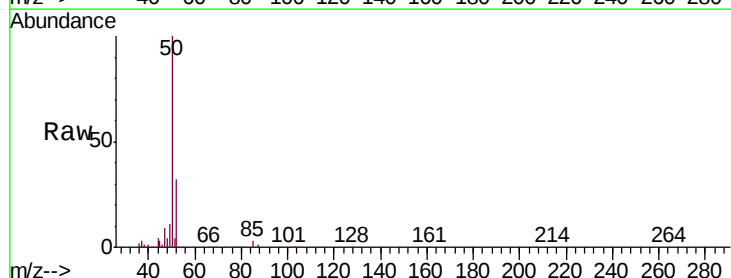
Acq: 02 Apr 2019 10:18

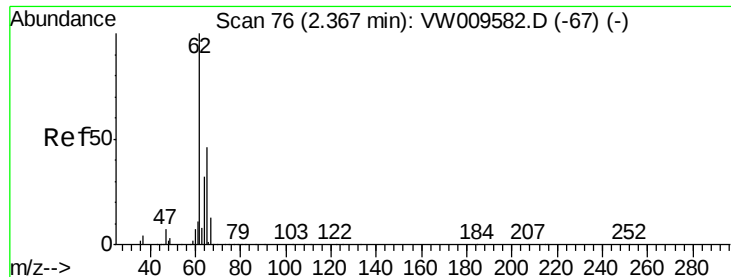
Tgt Ion: 50 Resp: 142940

Ion Ratio Lower Upper

50 100

52 31.5 21.6 40.2





#5

Vinyl chloride

Concen: 29.522 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.01 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

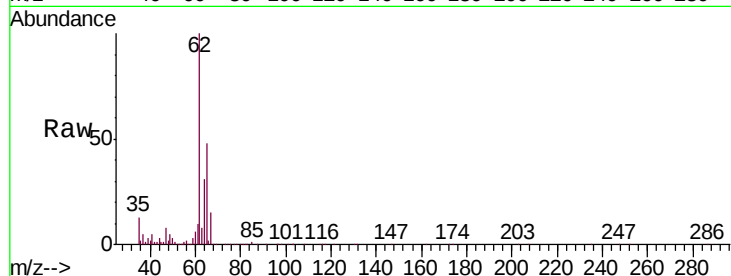
VSTD02508

Tgt Ion: 62 Resp: 201009

Ion Ratio Lower Upper

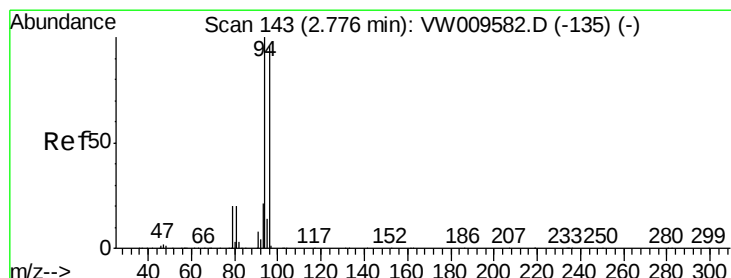
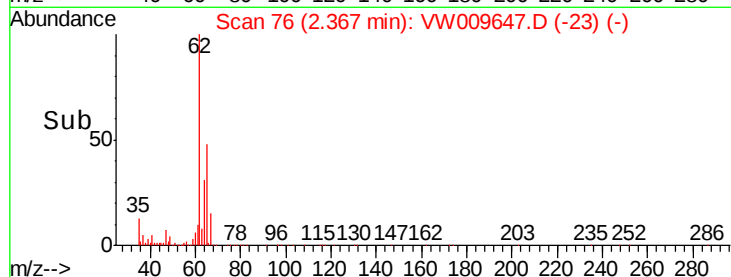
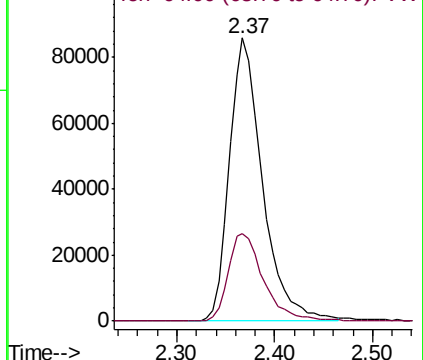
62 100

64 31.1 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#6

Bromomethane

Concen: 24.446 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW009647.D

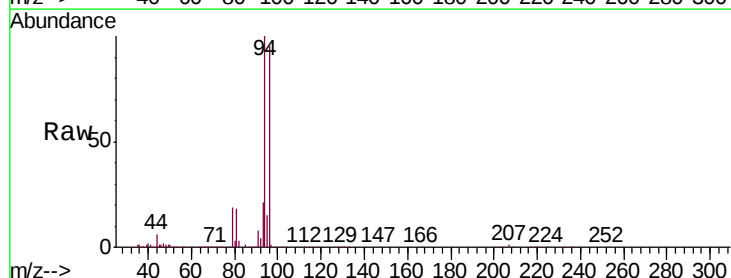
Acq: 02 Apr 2019 10:18

Tgt Ion: 94 Resp: 139452

Ion Ratio Lower Upper

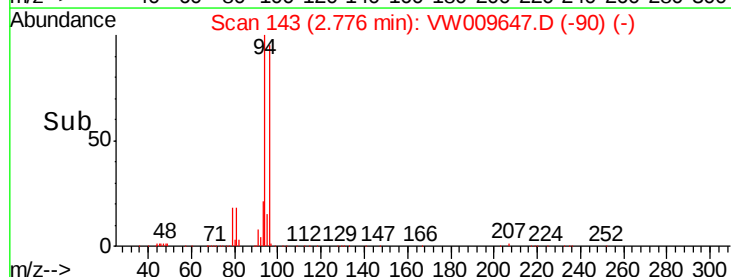
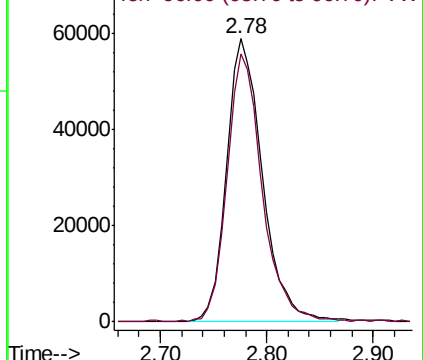
94 100

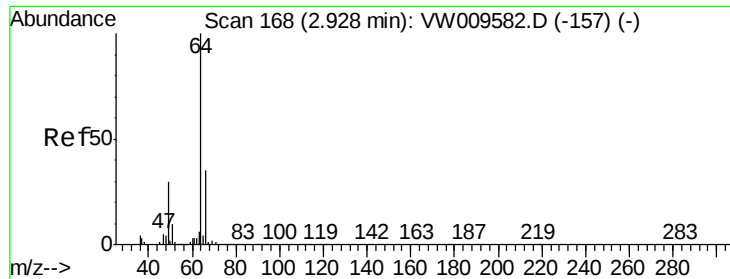
96 91.4 9.4 178.4



Abundance Ion 94.00 (93.70 to 94.70): VW

Ion 96.00 (95.70 to 96.70): VW





#8

Chloroethane

Concen: 25.174 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

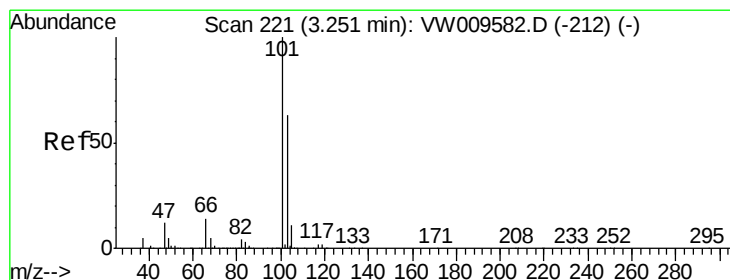
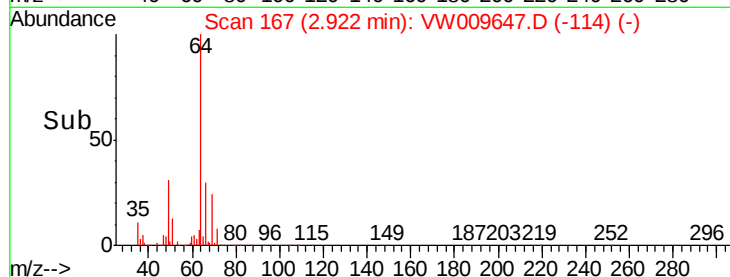
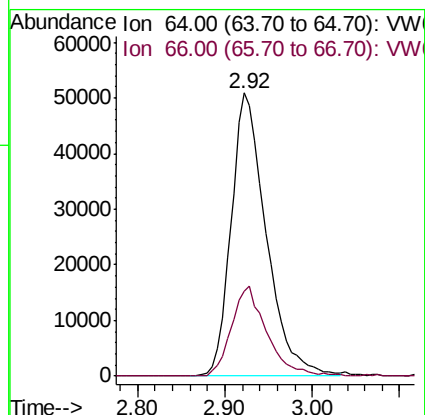
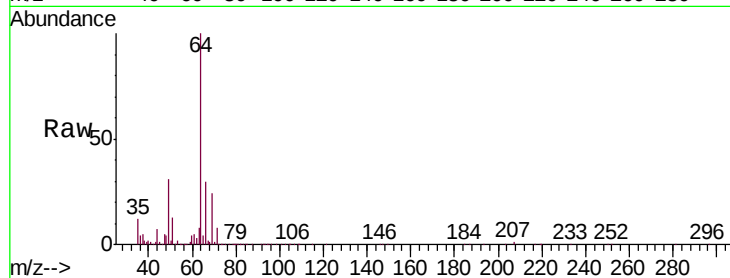
VSTD02508

Tgt Ion: 64 Resp: 141811

Ion Ratio Lower Upper

64 100

66 30.1 25.1 46.7



#9

Trichlorofluoromethane

Concen: 26.941 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW009647.D

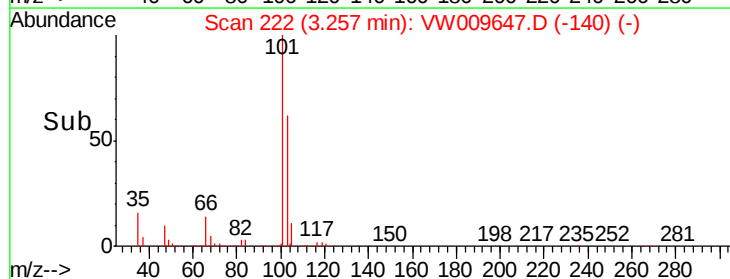
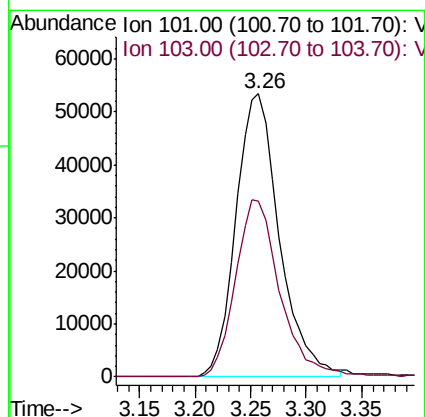
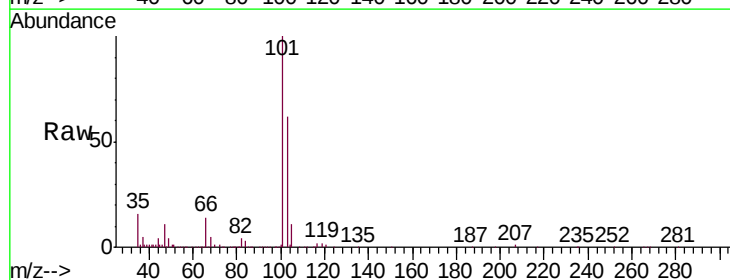
Acq: 02 Apr 2019 10:18

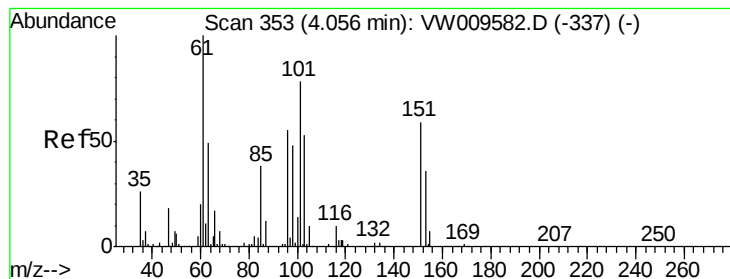
Tgt Ion: 101 Resp: 144900

Ion Ratio Lower Upper

101 100

103 63.2 45.0 83.6





#11

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

Concen: 27.016 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.00 min

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Instrument :

MSVOA_W

ClientSampled :

VSTD02508

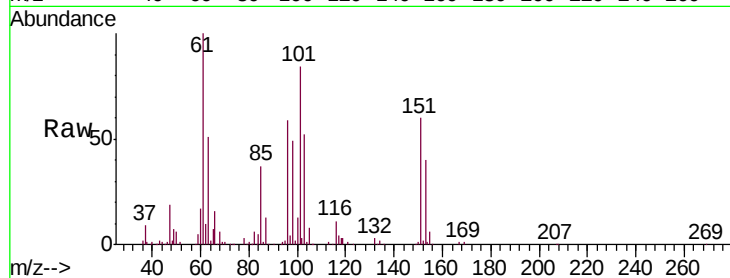
Tgt Ion: 101 Resp: 167799

Ion Ratio Lower Upper

101 100

85 45.5 32.6 48.8

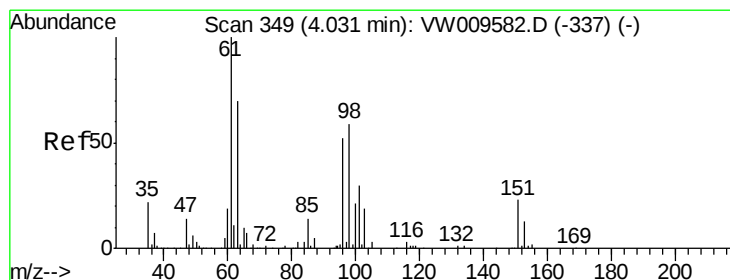
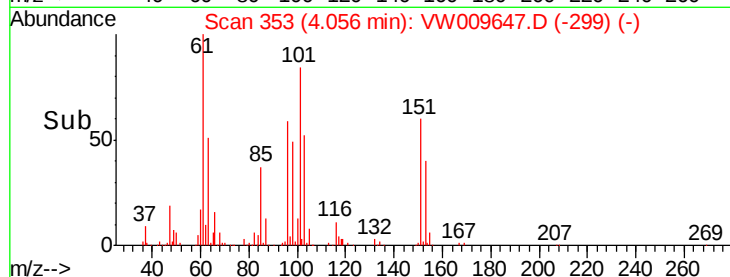
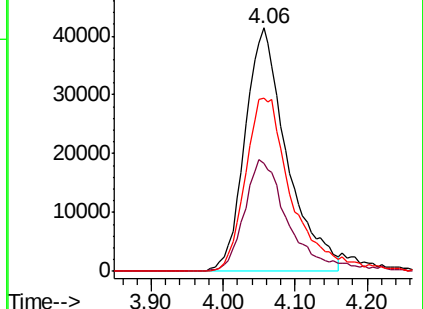
151 39.7 63.3 94.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 27.802 ug/L

RT: 4.03 min Scan# 348

Delta R.T. -0.01 min

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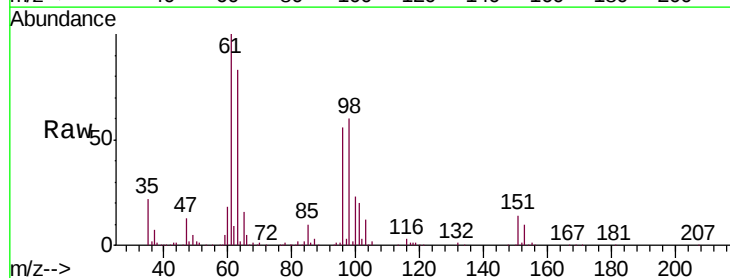
Tgt Ion: 96 Resp: 162041

Ion Ratio Lower Upper

96 100

61 179.6 129.4 240.2

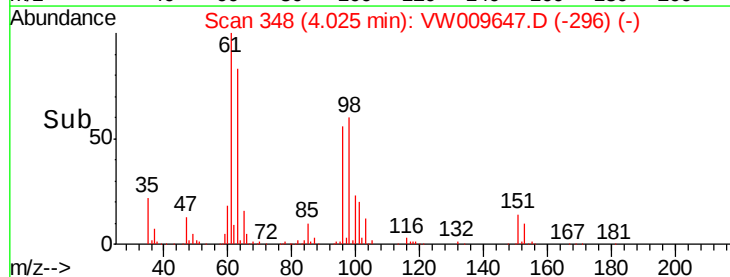
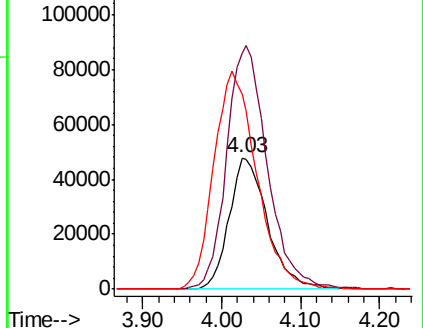
63 148.6 116.8 217.0

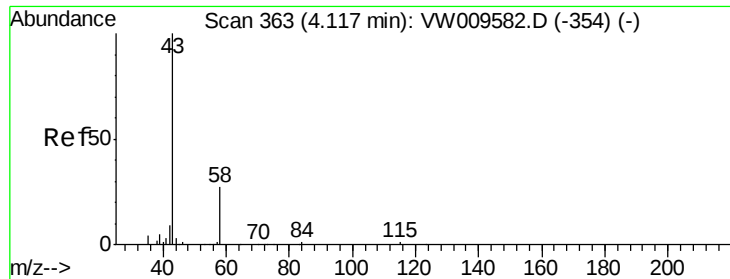


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 54.869 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

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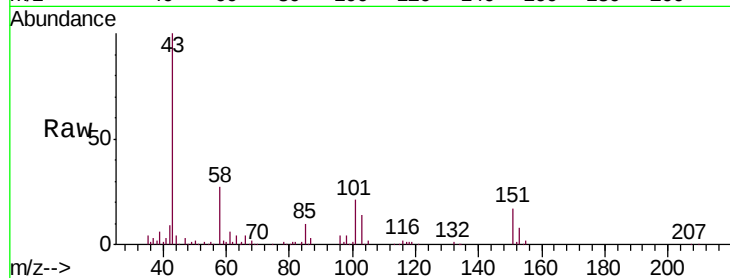
VSTD02508

Tgt Ion: 43 Resp: 105248

Ion Ratio Lower Upper

43 100

58 26.9 0.0 56.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

40000

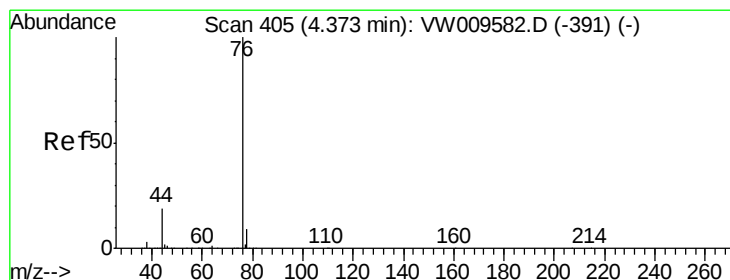
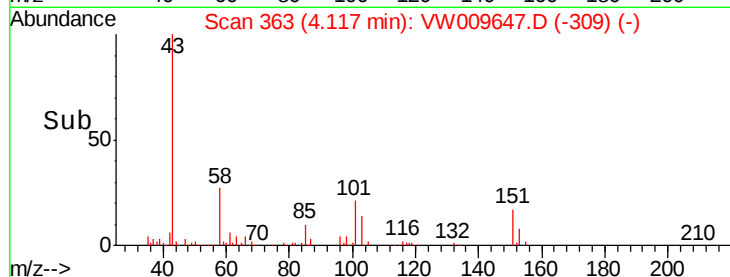
30000

20000

10000

0

Time--> 4.00 4.10 4.20



#14

Carbon disulfide

Concen: 27.868 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW009647.D

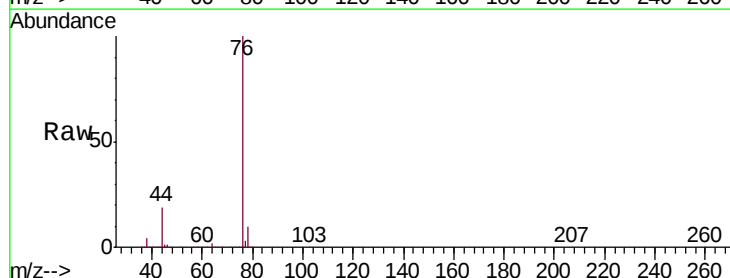
Acq: 02 Apr 2019 10:18

Tgt Ion: 76 Resp: 437136

Ion Ratio Lower Upper

76 100

78 9.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.37

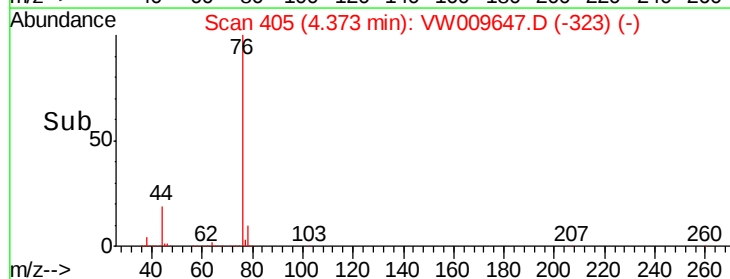
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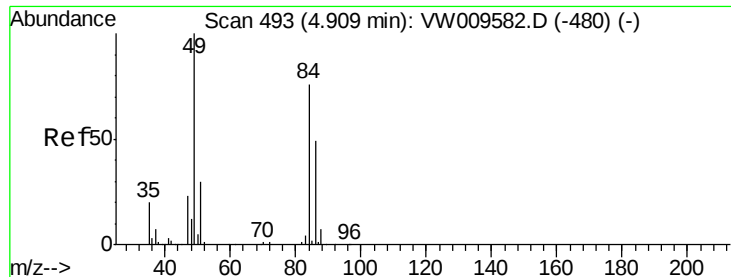
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50000

0

Time--> 4.20 4.30 4.40 4.50

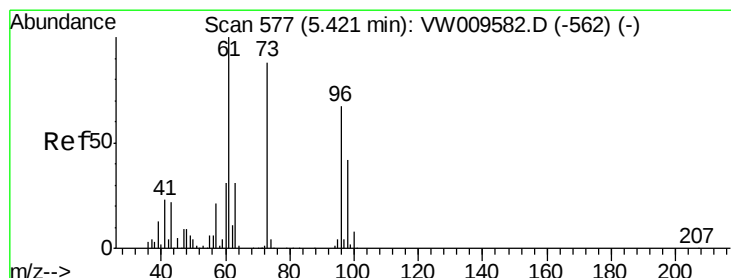
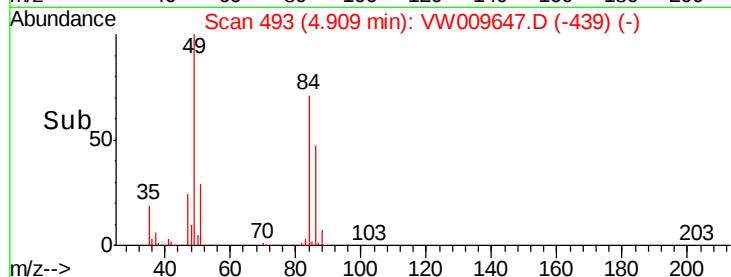
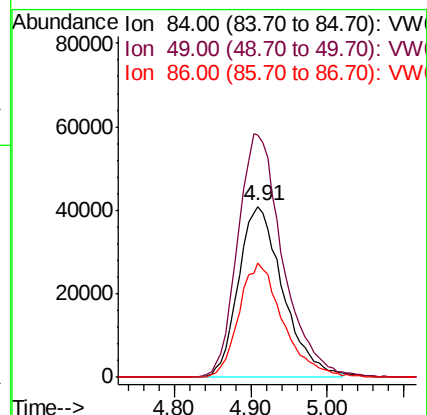
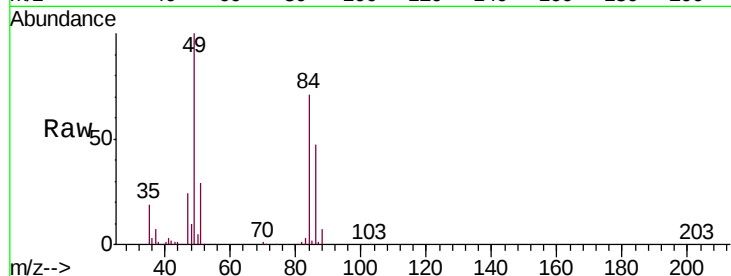




#16
Methylene chloride
Concen: 24.014 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.00 min
Lab File: VW009647.D
Acq: 02 Apr 2019 10:18

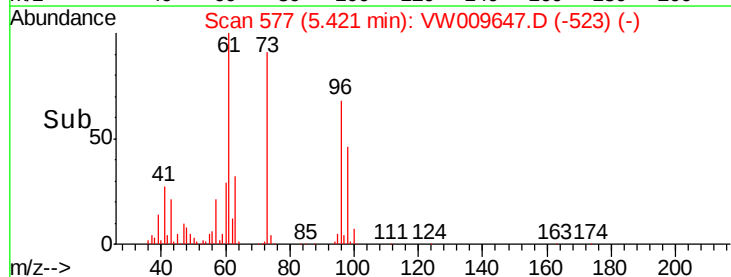
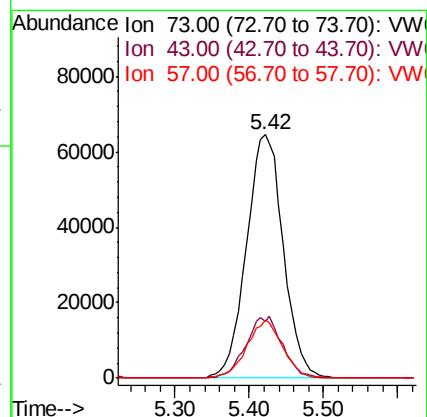
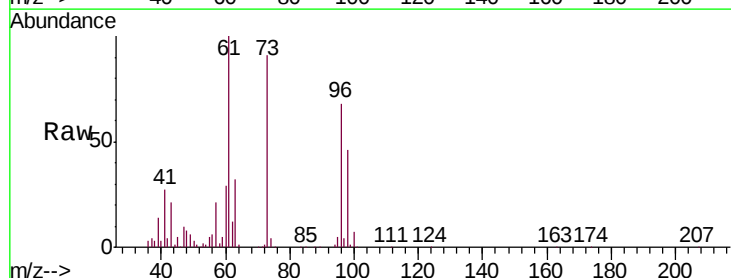
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

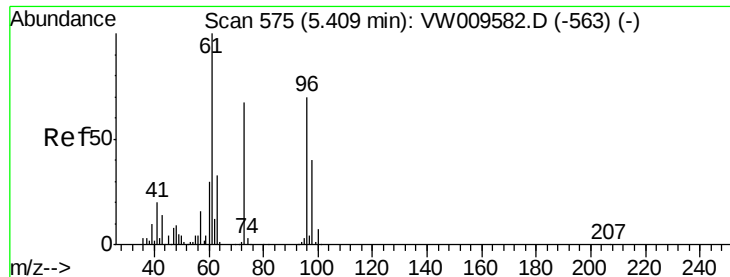
Tgt Ion: 84 Resp: 165744
Ion Ratio Lower Upper
84 100
49 141.4 96.0 178.2
86 66.6 44.4 82.5



#17
Methyl tert-butyl Ether
Concen: 27.087 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW009647.D
Acq: 02 Apr 2019 10:18

Tgt Ion: 73 Resp: 223379
Ion Ratio Lower Upper
73 100
43 13.8 18.2 27.4#
57 23.1 17.8 26.8





#18

trans-1,2-Dichloroethene

Concen: 26.824 ug/L

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampled :

VSTD02508

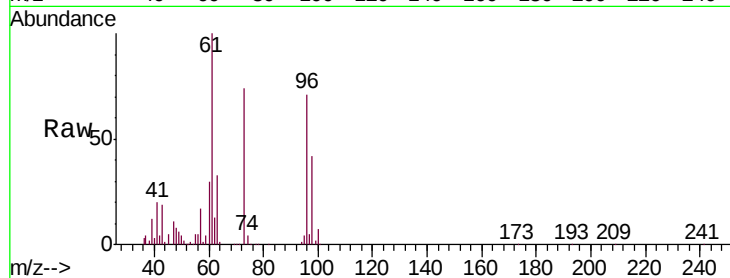
Tgt Ion: 96 Resp: 164370

Ion Ratio Lower Upper

96 100

61 140.9 96.7 179.5

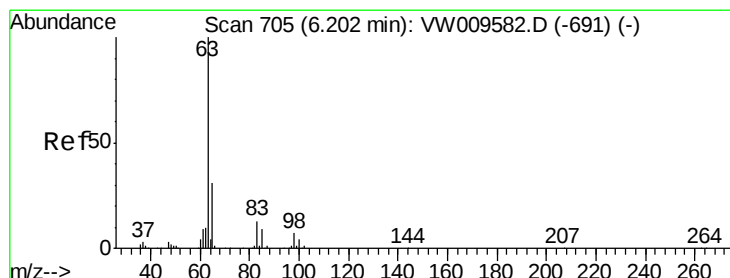
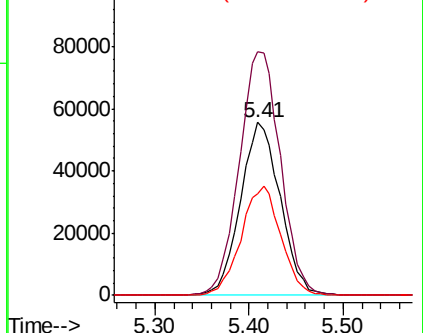
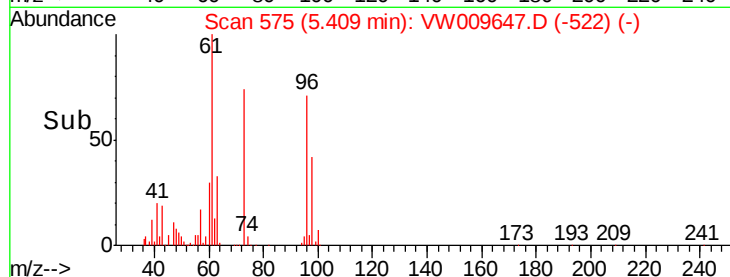
98 59.1 43.8 81.4



Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW



#19

1,1-Dichloroethane

Concen: 29.017 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

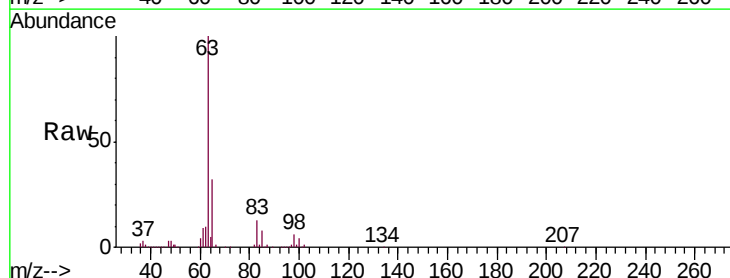
Tgt Ion: 63 Resp: 324213

Ion Ratio Lower Upper

63 100

65 32.2 21.6 40.0

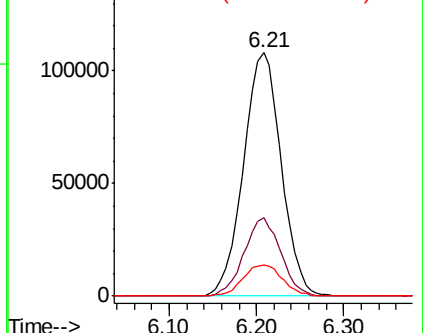
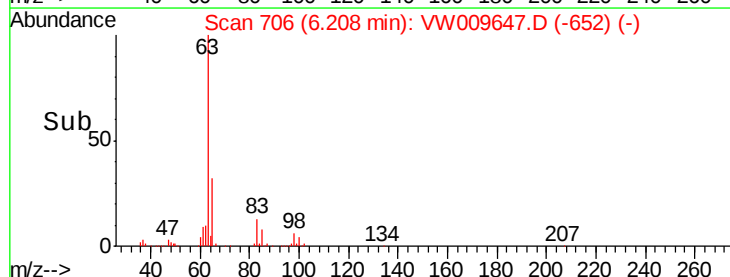
83 12.9 10.1 18.7

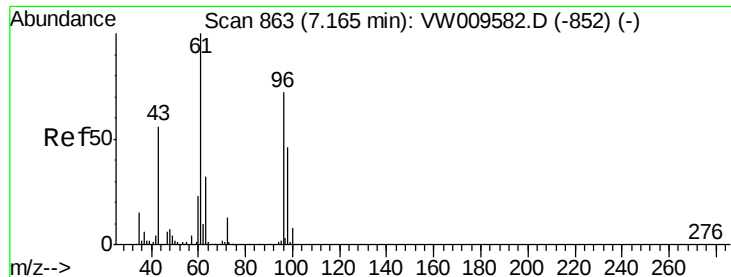


Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW





#21

2-Butanone

Concen: 51.209 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampled :

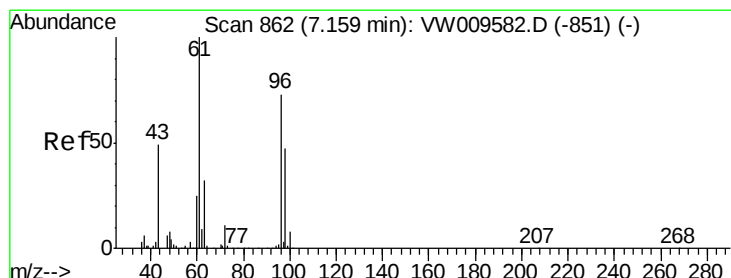
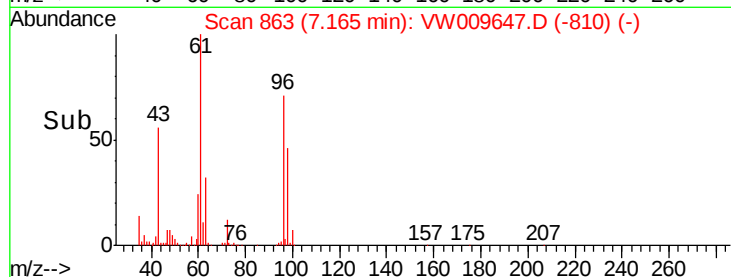
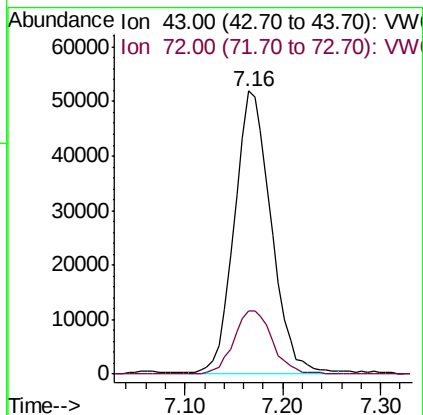
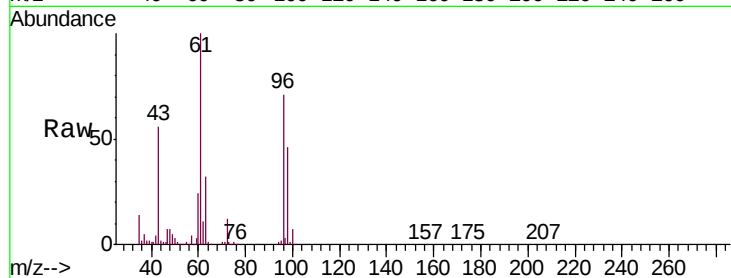
VSTD02508

Tgt Ion: 43 Resp: 135628

Ion Ratio Lower Upper

43 100

72 23.2 13.1 39.1



#22

cis-1,2-Dichloroethene

Concen: 26.835 ug/L

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

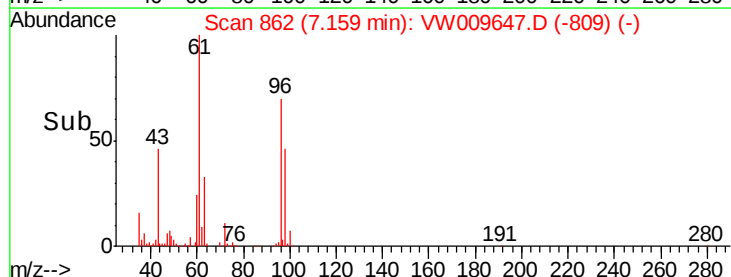
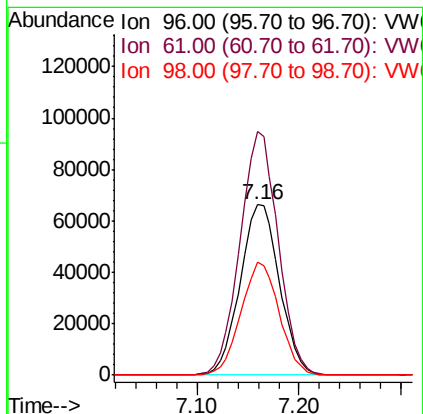
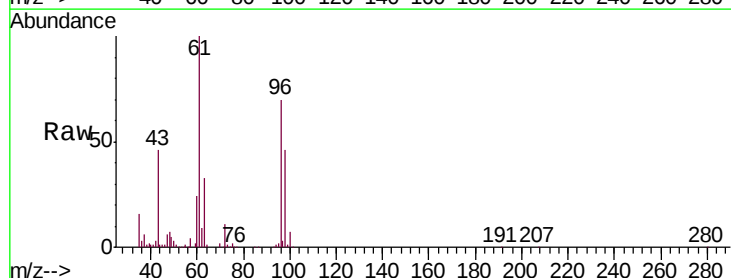
Tgt Ion: 96 Resp: 178137

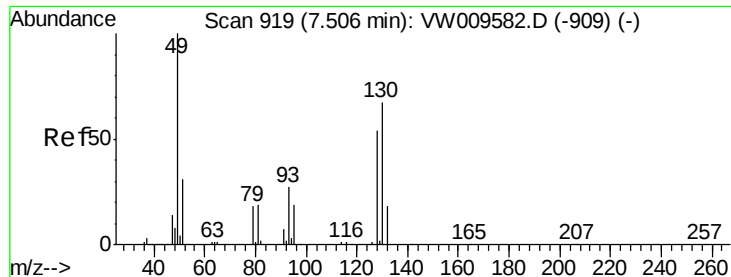
Ion Ratio Lower Upper

96 100

61 143.2 90.6 168.3

98 66.2 44.0 81.8





#23

Bromochloromethane

Concen: 25.404 ug/L

RT: 7.51 min Scan# 919

Delta R.T. -0.01 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

Tgt Ion:128 Resp: 80883

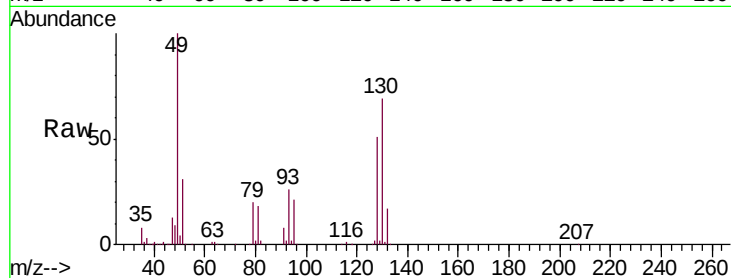
Ion Ratio Lower Upper

128 100

49 195.6 118.4 219.8

130 134.2 87.8 163.2

51 61.0 44.6 67.0

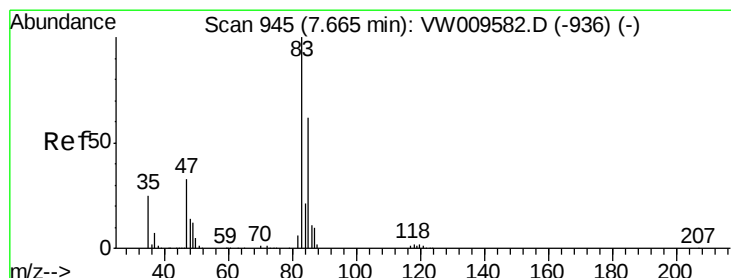
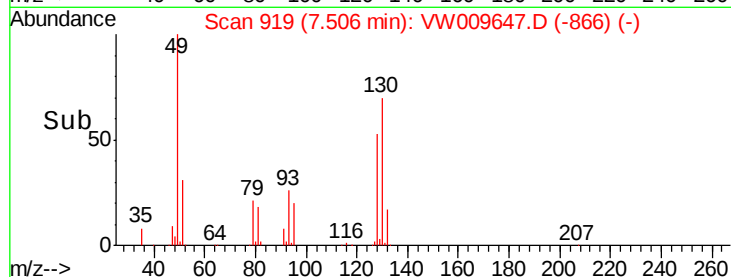
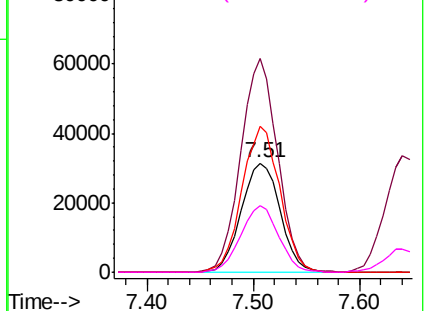


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#25

Chloroform

Concen: 28.902 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.01 min

Lab File: VW009647.D

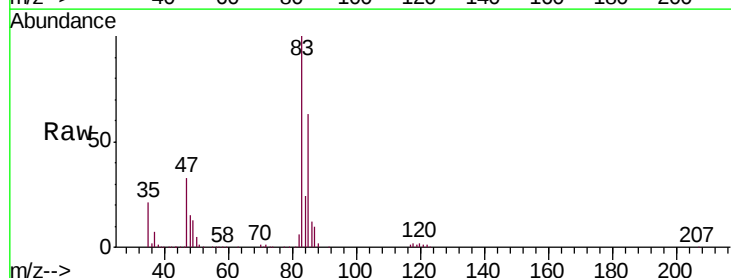
Acq: 02 Apr 2019 10:18

Tgt Ion: 83 Resp: 338172

Ion Ratio Lower Upper

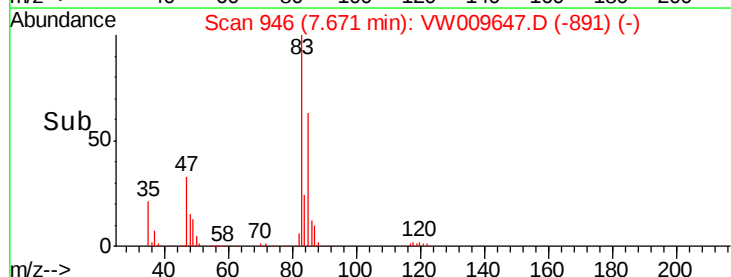
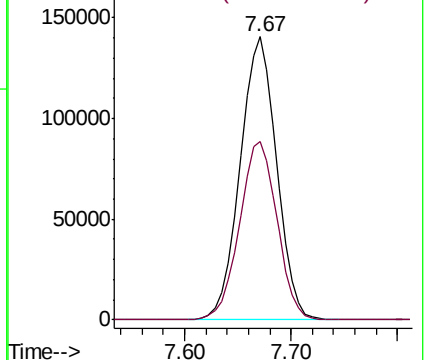
83 100

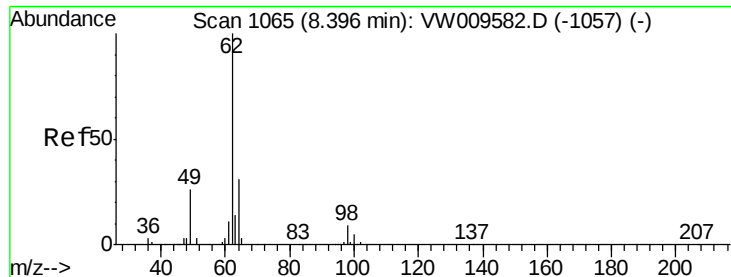
85 64.9 46.0 85.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 28.892 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

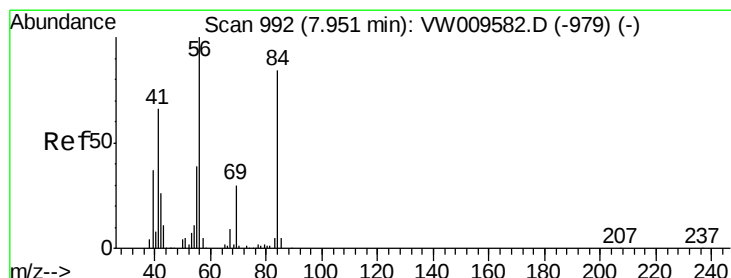
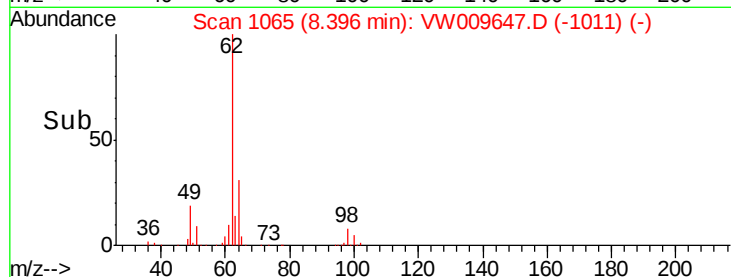
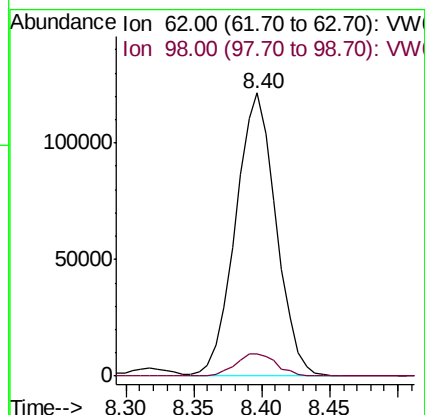
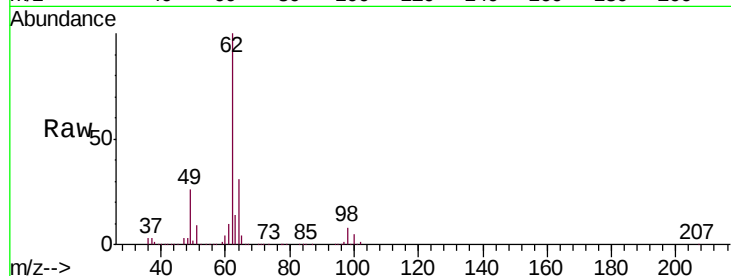
VSTD02508

Tgt Ion: 62 Resp: 252045

Ion Ratio Lower Upper

62 100

98 7.7 7.3 10.9



#30

Cyclohexane

Concen: 27.496 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

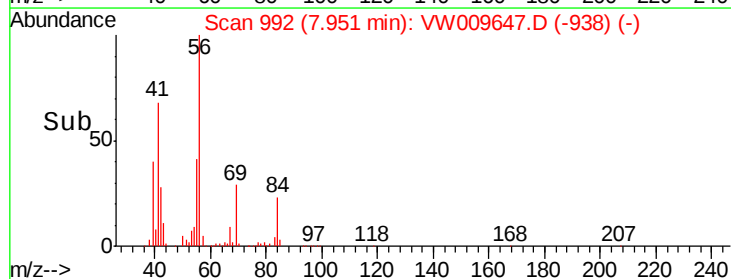
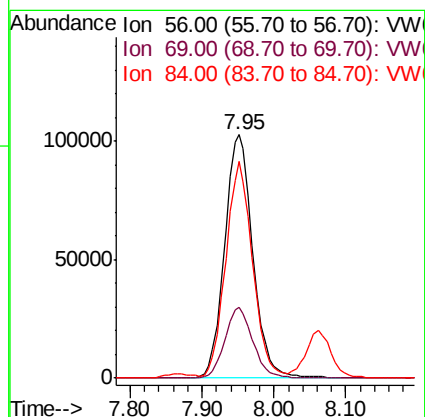
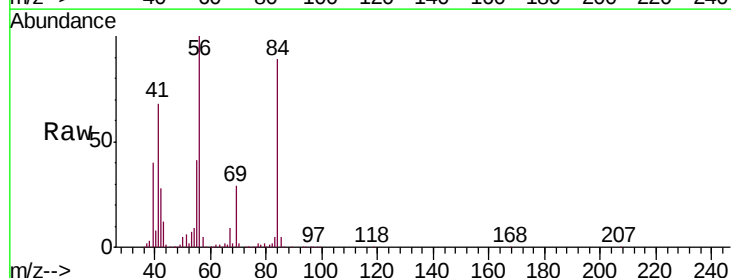
Tgt Ion: 56 Resp: 278758

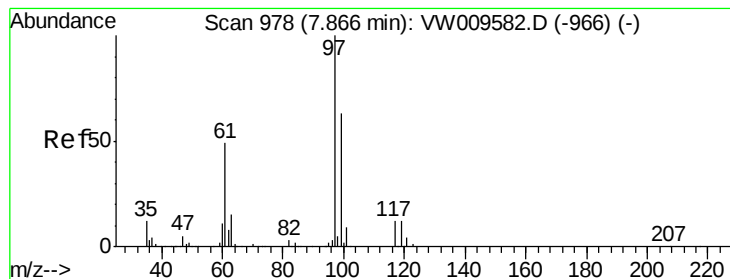
Ion Ratio Lower Upper

56 100

69 28.8 24.0 36.0

84 85.2 69.2 103.8





#31

1,1,1-Trichloroethane

Concen: 30.347 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

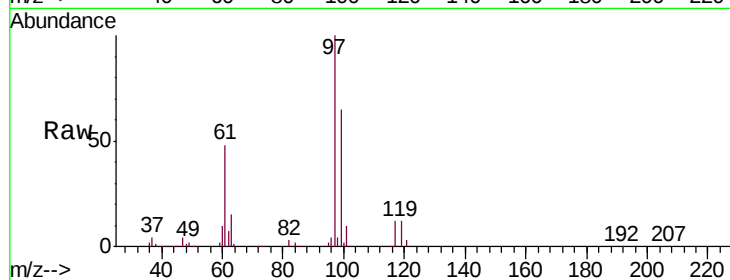
Tgt Ion: 97 Resp: 270557

Ion Ratio Lower Upper

97 100

99 64.5 51.2 76.8

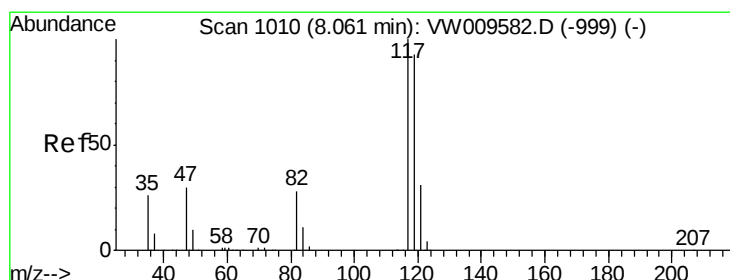
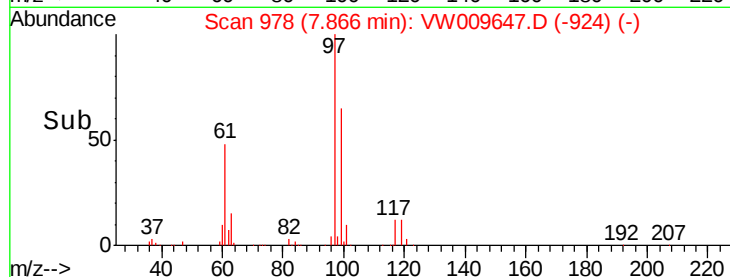
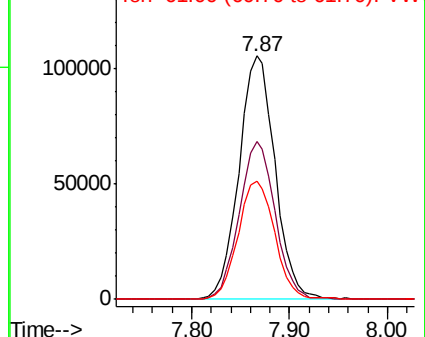
61 49.2 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 30.150 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW009647.D

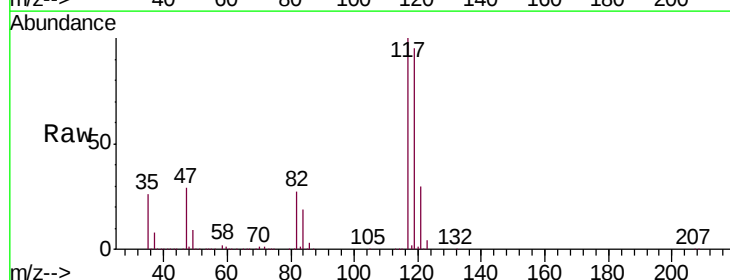
Acq: 02 Apr 2019 10:18

Tgt Ion: 117 Resp: 271204

Ion Ratio Lower Upper

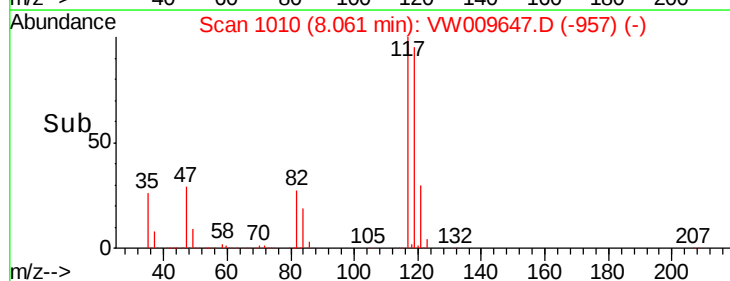
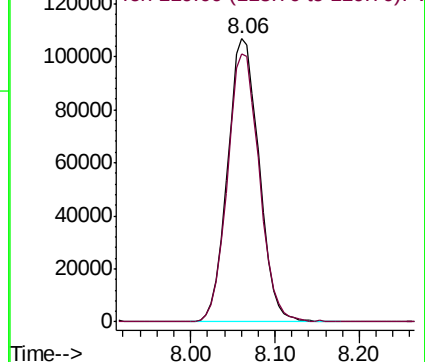
117 100

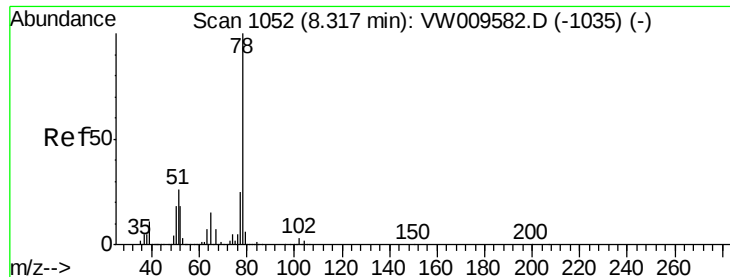
119 95.7 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 28.337 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

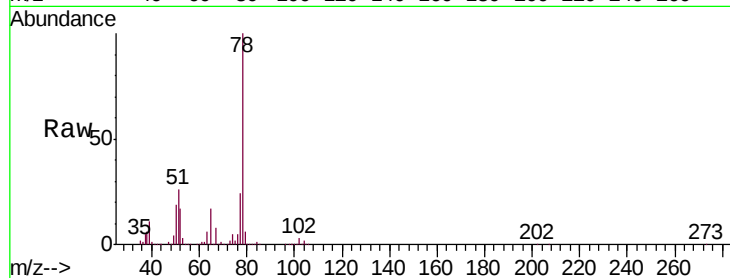
Instrument :

MSVOA_W

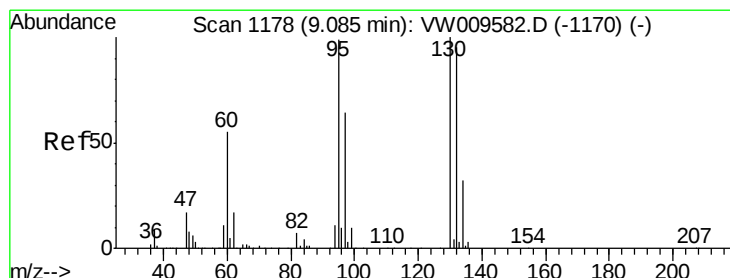
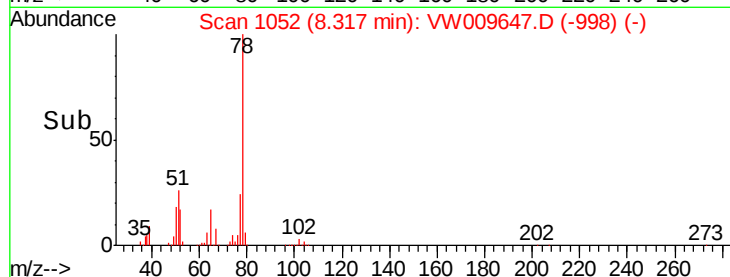
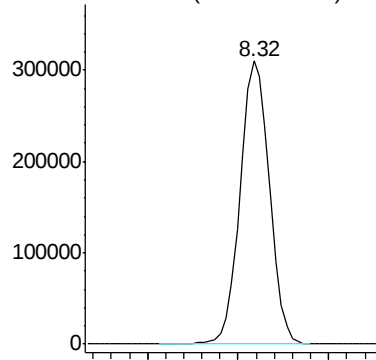
ClientSampleId :

VSTD02508

Tgt Ion: 78 Resp: 692351



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 27.811 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Tgt Ion: 95 Resp: 181060

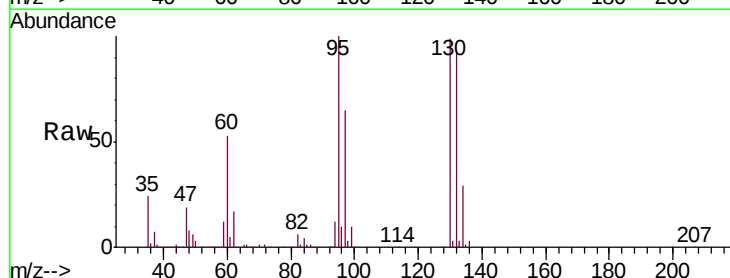
Ion	Ratio	Lower	Upper
95	100		
97	64.6	44.7	82.9
132	95.9	69.0	128.2
130	99.6	72.7	134.9

95 100

97 64.6 44.7 82.9

132 95.9 69.0 128.2

130 99.6 72.7 134.9

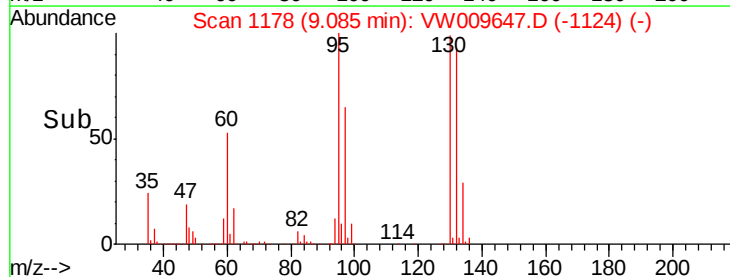
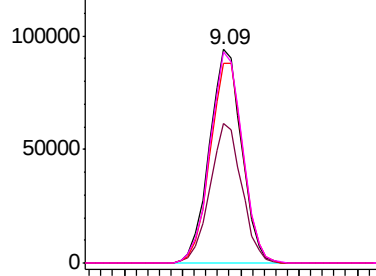


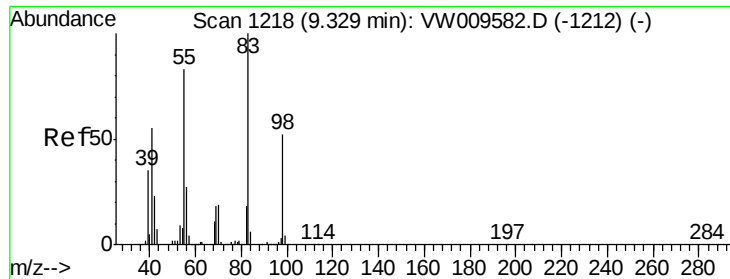
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

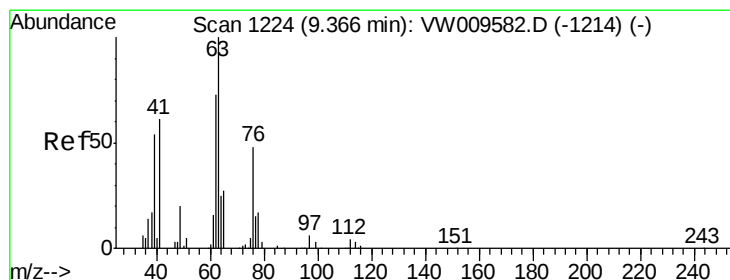
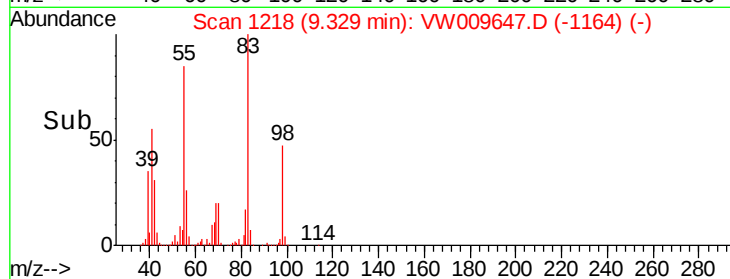
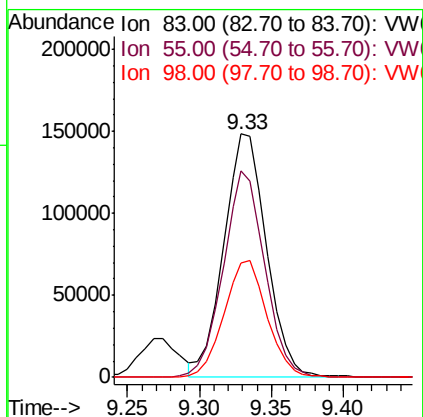
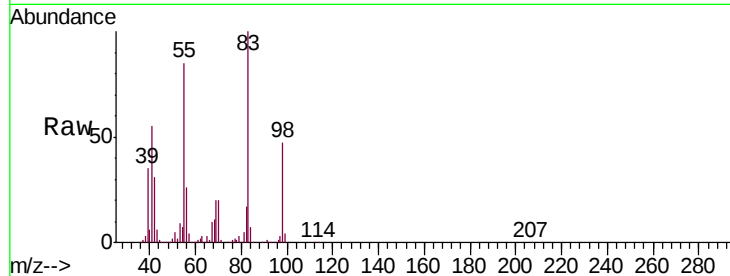




#36
Methylcyclohexane
Concen: 27.262 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.00 min
Lab File: VW009647.D
Acq: 02 Apr 2019 10:18

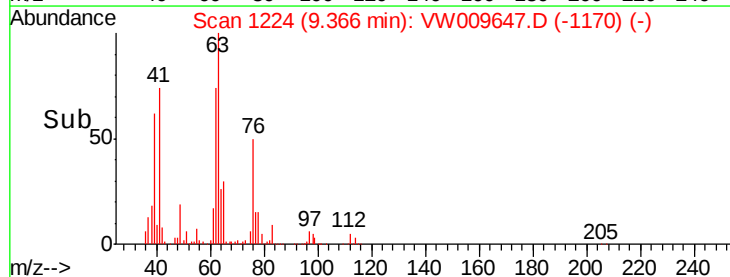
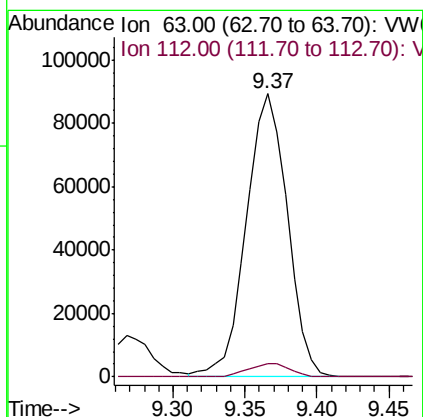
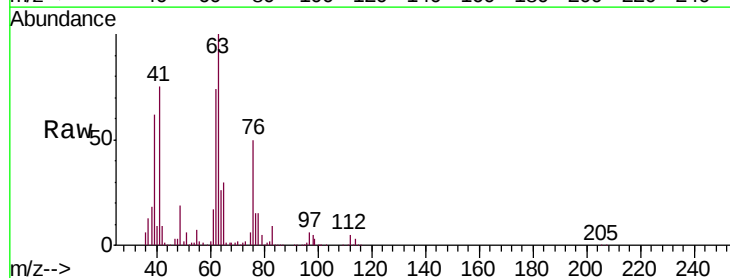
Instrument :
MSVOA_W
ClientSampled :
VSTD02508

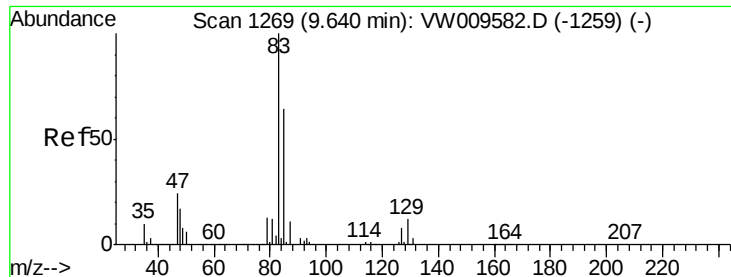
Tgt Ion: 83 Resp: 307069
Ion Ratio Lower Upper
83 100
55 82.0 63.5 95.3
98 48.4 39.8 59.8



#40
1,2-Dichloropropane
Concen: 28.217 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW009647.D
Acq: 02 Apr 2019 10:18

Tgt Ion: 63 Resp: 176911
Ion Ratio Lower Upper
63 100
112 4.9 4.0 6.0





#41

Bromodichloromethane

Concen: 28.590 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

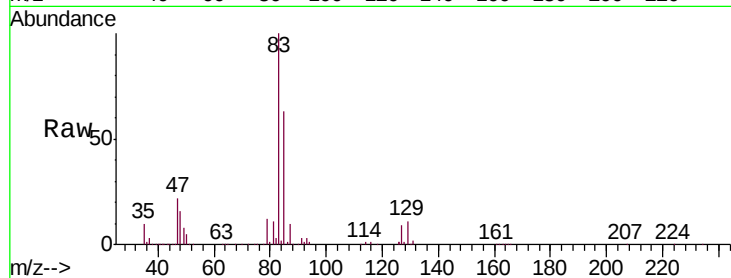
Tgt Ion: 83 Resp: 248369

Ion Ratio Lower Upper

83 100

85 62.8 43.5 80.7

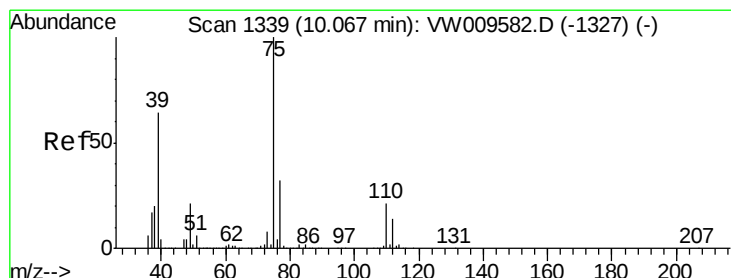
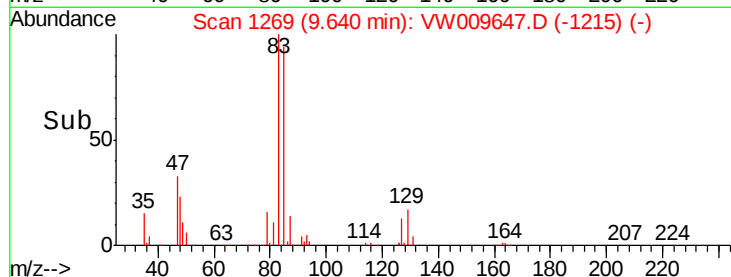
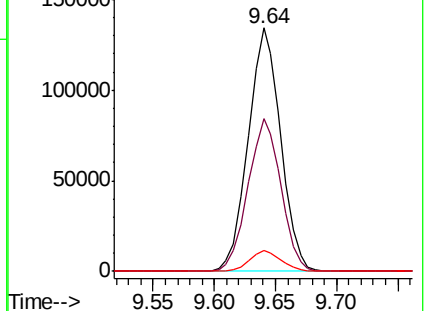
127 8.6 6.2 9.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): VW



#42

cis-1,3-Dichloropropene

Concen: 27.801 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW009647.D

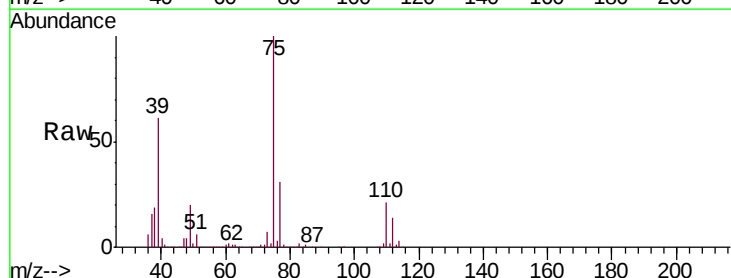
Acq: 02 Apr 2019 10:18

Tgt Ion: 75 Resp: 283898

Ion Ratio Lower Upper

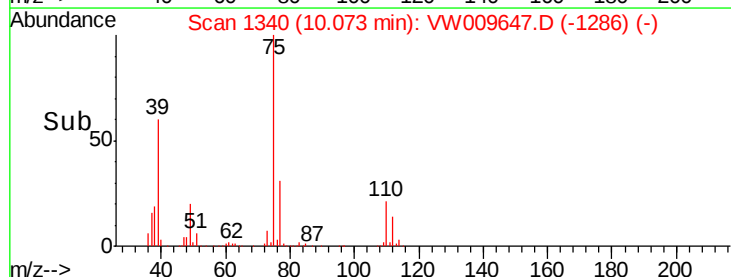
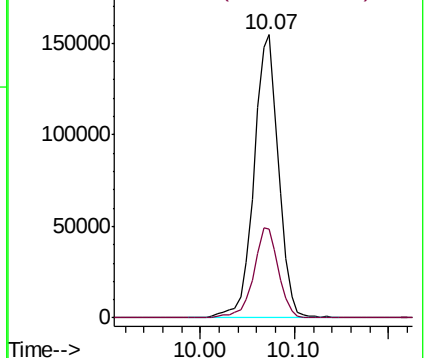
75 100

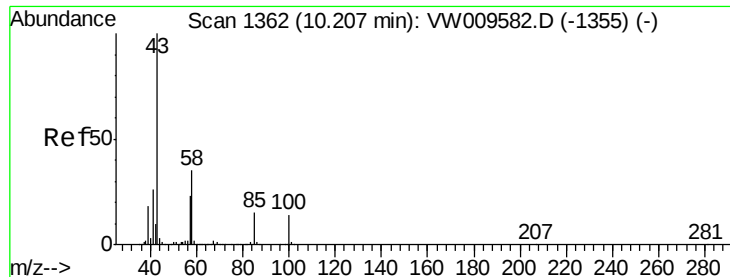
77 31.3 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

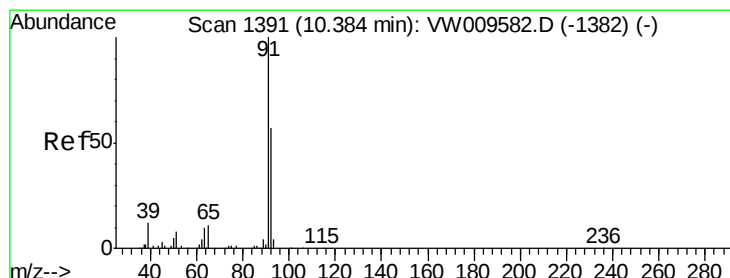
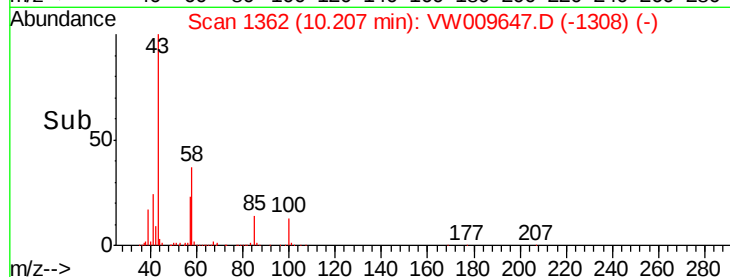
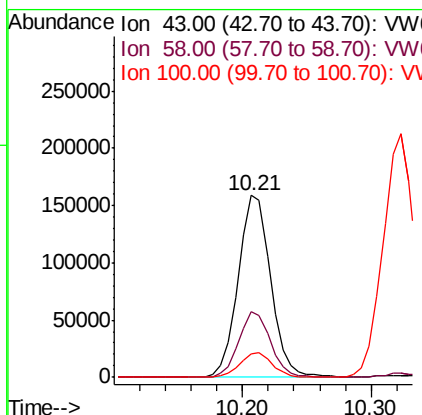
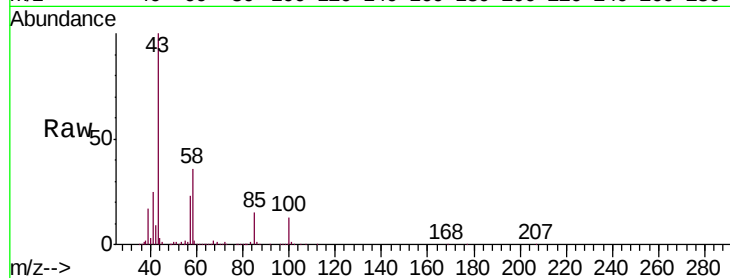




#43
4-Methyl-2-pentanone
Concen: 48.793 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VW009647.D
Acq: 02 Apr 2019 10:18

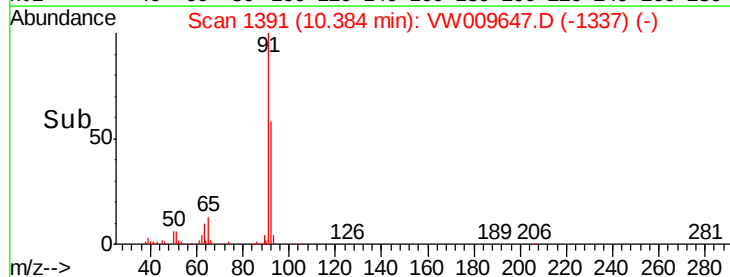
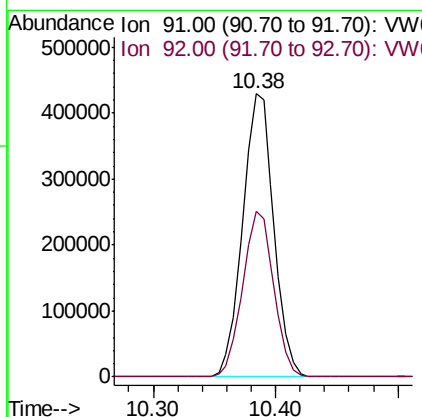
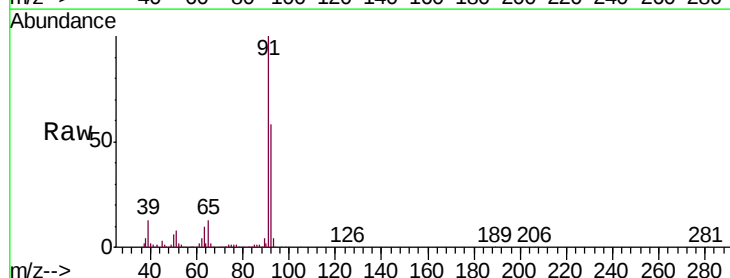
Instrument :
MSVOA_W
ClientSampleId :
VSTD02508

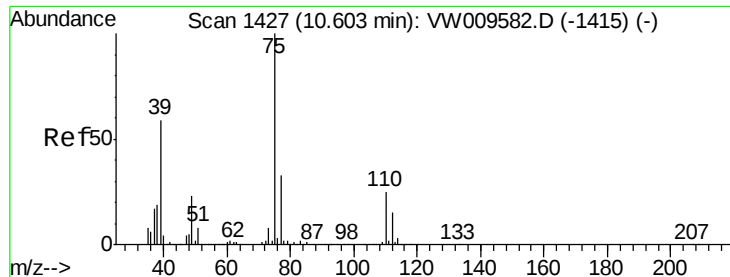
Tgt Ion: 43 Resp: 277206
Ion Ratio Lower Upper
43 100
58 35.4 28.2 42.2
100 13.3 11.4 17.2



#44
Toluene
Concen: 28.386 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VW009647.D
Acq: 02 Apr 2019 10:18

Tgt Ion: 91 Resp: 758305
Ion Ratio Lower Upper
91 100
92 58.3 39.8 73.8





#45

trans-1,3-Dichloropropene

Concen: 27.782 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

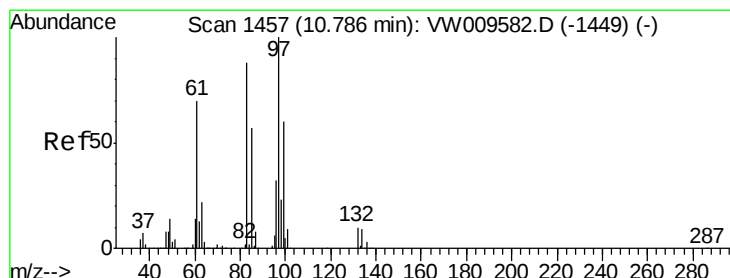
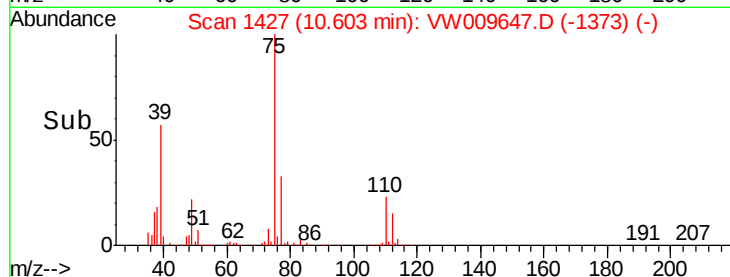
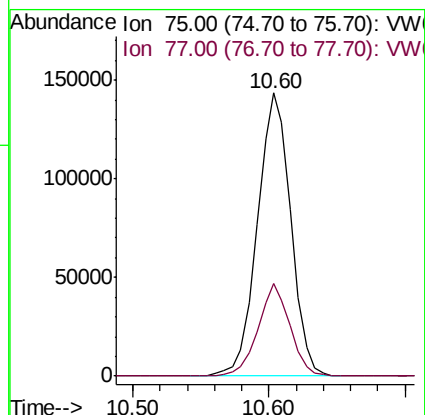
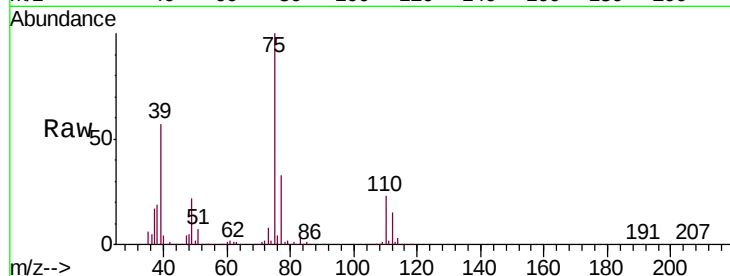
VSTD02508

Tgt Ion: 75 Resp: 246788

Ion Ratio Lower Upper

75 100

77 32.6 22.5 41.7



#46

1,1,2-Trichloroethane

Concen: 26.644 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Tgt Ion: 97 Resp: 133270

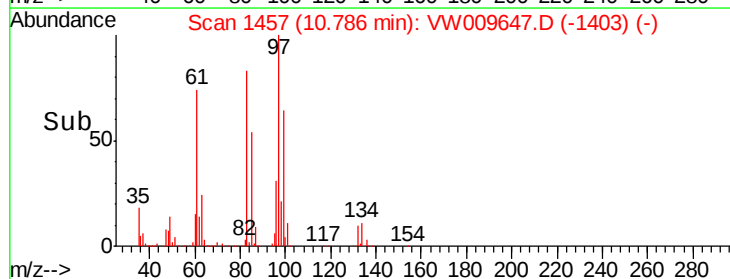
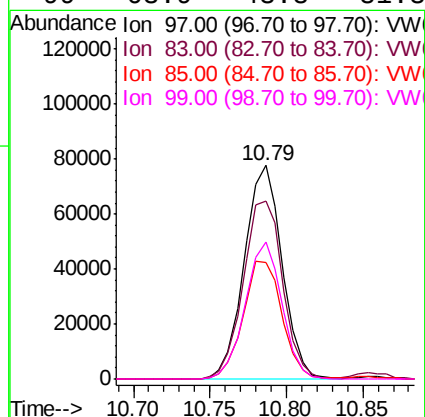
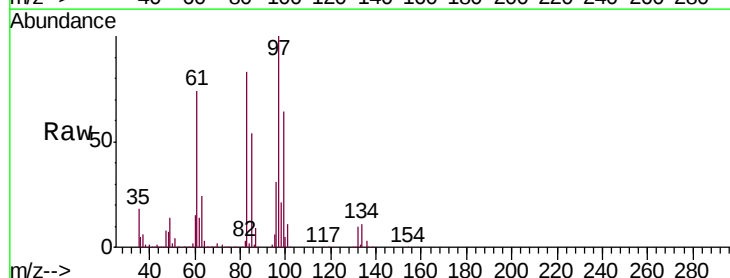
Ion Ratio Lower Upper

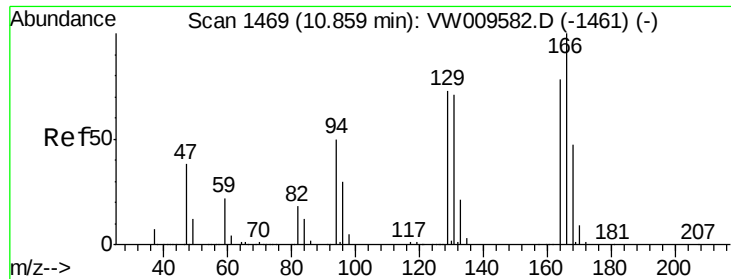
97 100

83 83.0 60.7 112.7

85 54.5 40.1 74.5

99 63.9 43.8 81.3





#47

Tetrachloroethene

Concen: 26.203 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

Tgt Ion:164 Resp: 144145

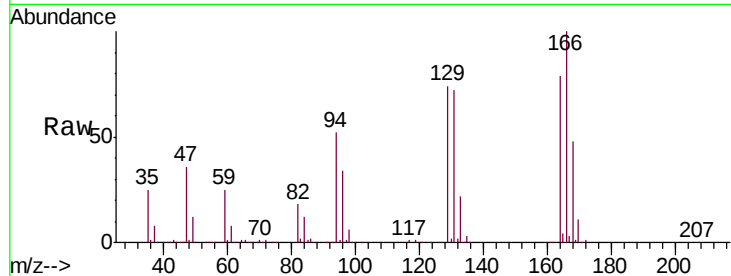
Ion Ratio Lower Upper

164 100

129 94.0 66.5 123.5

131 90.3 62.6 116.3

166 126.2 91.6 170.0

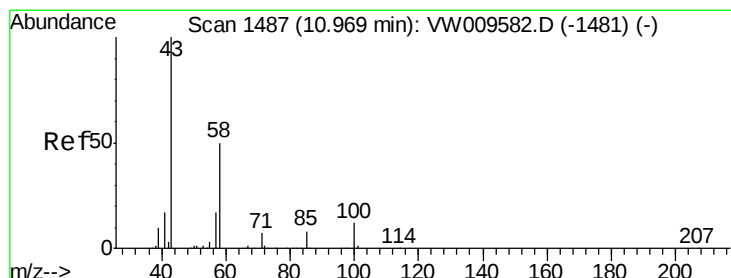
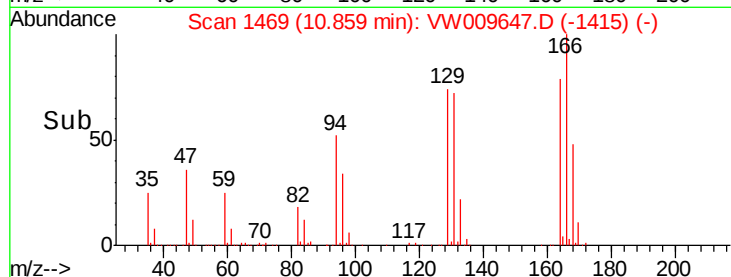
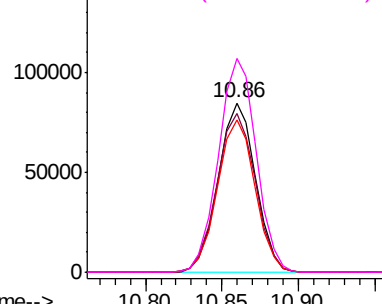


Abundance Ion 164.00 (163.70 to 164.70): V

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: 52.153 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Tgt Ion: 43 Resp: 208687

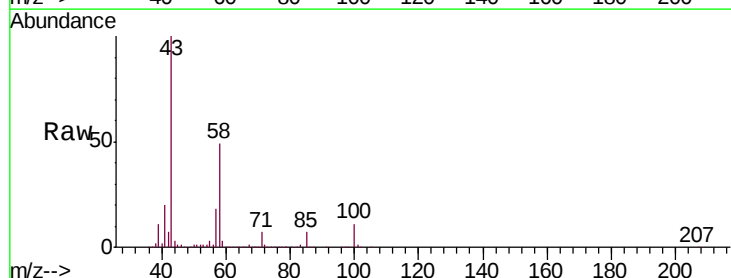
Ion Ratio Lower Upper

43 100

58 49.0 39.2 58.8

57 17.5 14.2 21.2

100 10.9 8.9 13.3

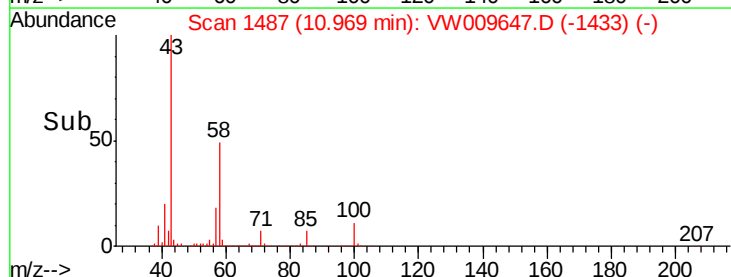
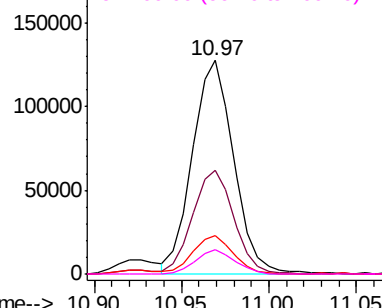


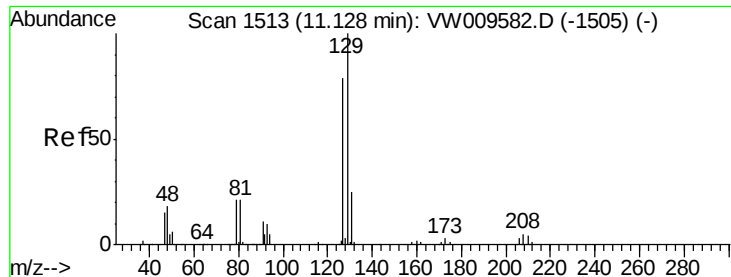
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#50

Dibromochloromethane

Concen: 26.671 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampled :

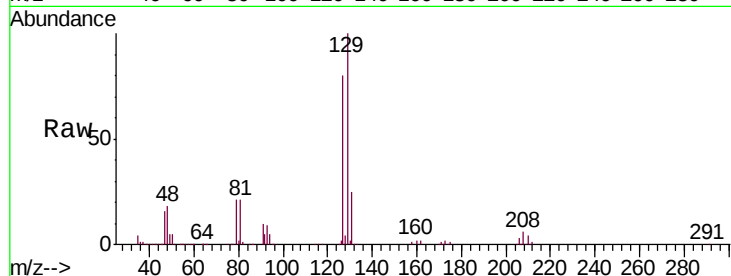
VSTD02508

Tgt Ion:129 Resp: 164687

Ion Ratio Lower Upper

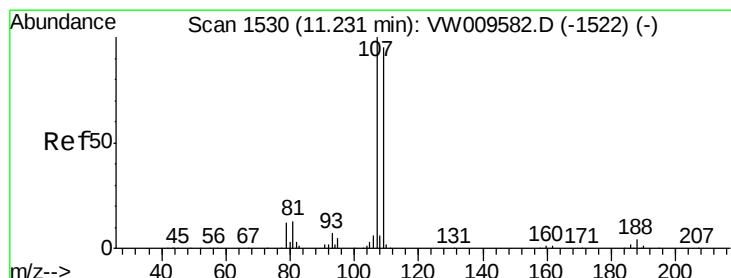
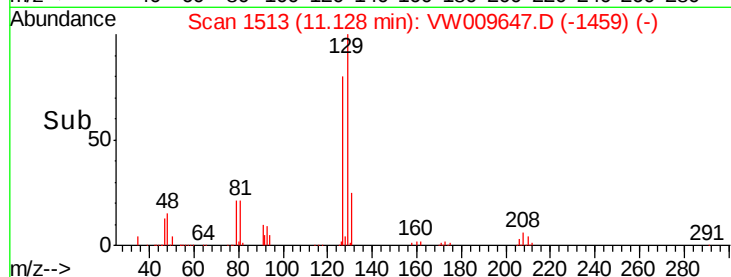
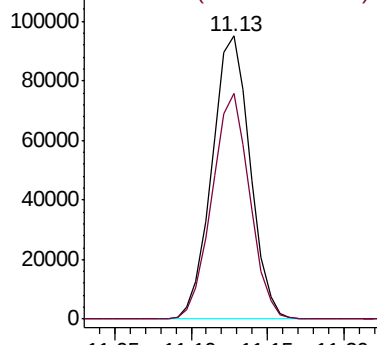
129 100

127 79.8 56.8 105.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 25.976 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

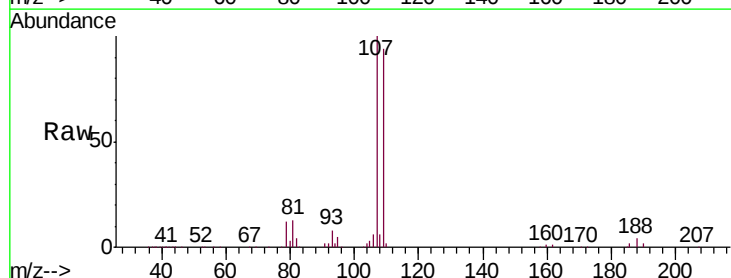
Tgt Ion:107 Resp: 131718

Ion Ratio Lower Upper

107 100

109 94.4 68.0 126.4

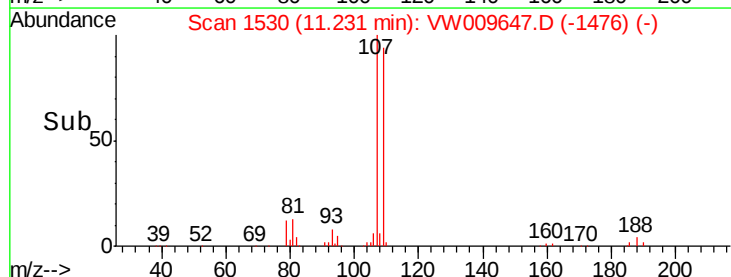
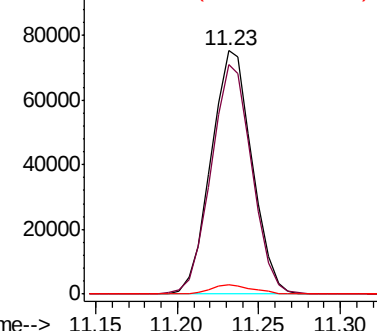
188 3.8 3.5 5.3

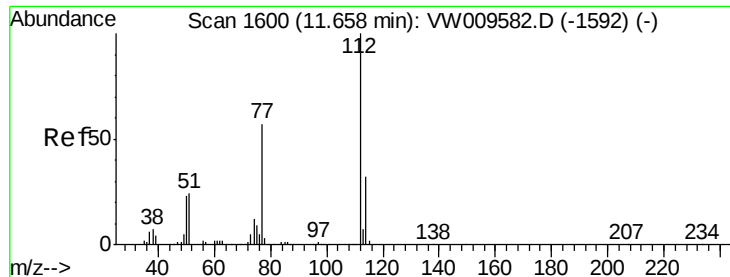


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#52

Chlorobenzene

Concen: 27.940 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

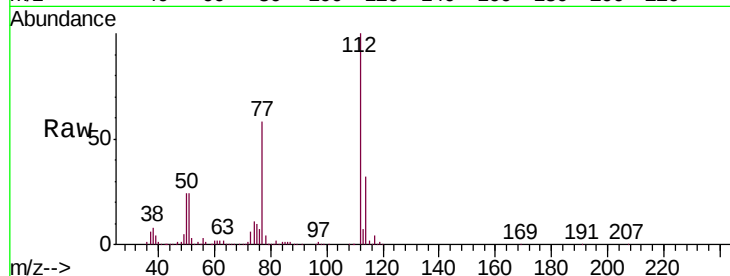
Tgt Ion: 112 Resp: 478720

Ion Ratio Lower Upper

112 100

77 58.4 45.7 68.5

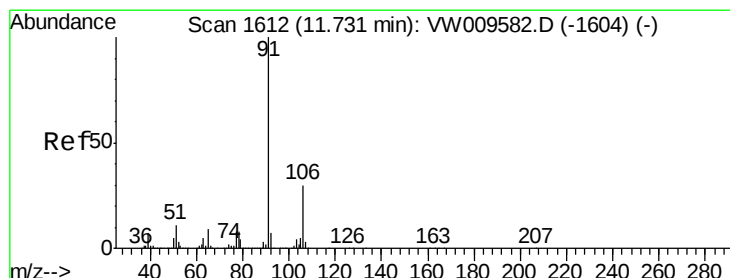
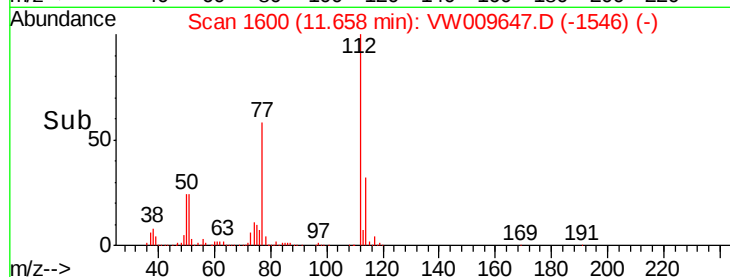
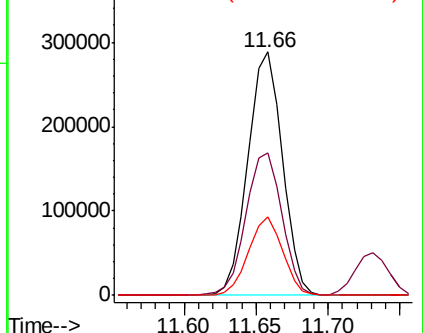
114 32.3 22.8 42.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 28.955 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW009647.D

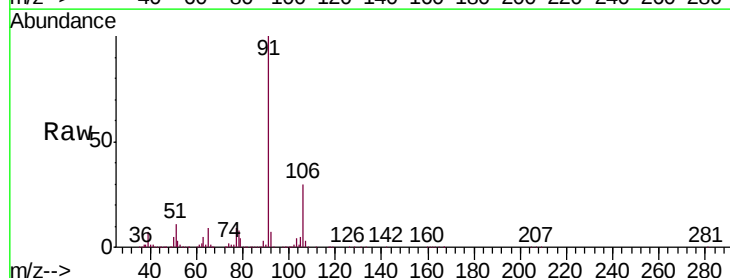
Acq: 02 Apr 2019 10:18

Tgt Ion: 91 Resp: 869620

Ion Ratio Lower Upper

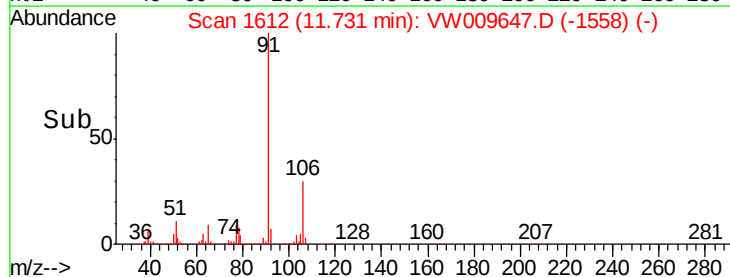
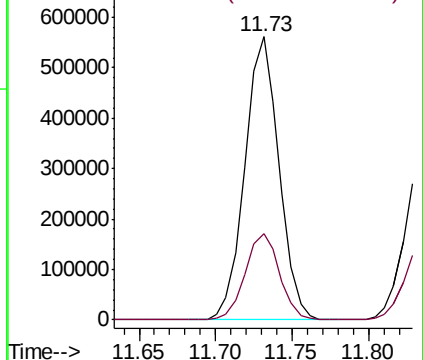
91 100

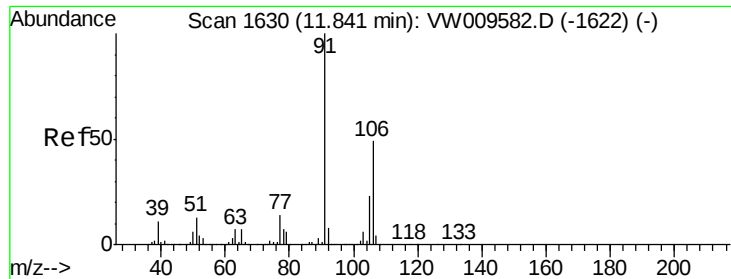
106 30.4 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 28.575 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

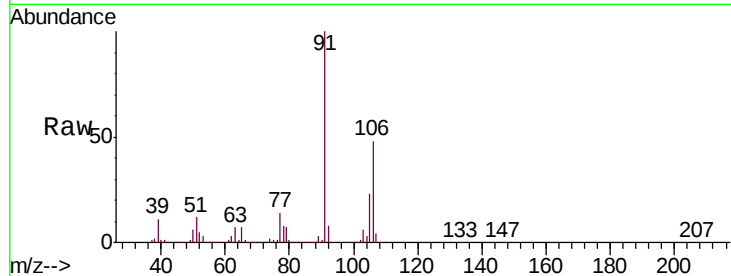
VSTD02508

Tgt Ion:106 Resp: 326058

Ion Ratio Lower Upper

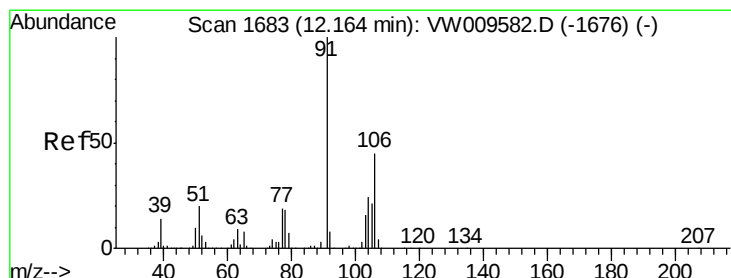
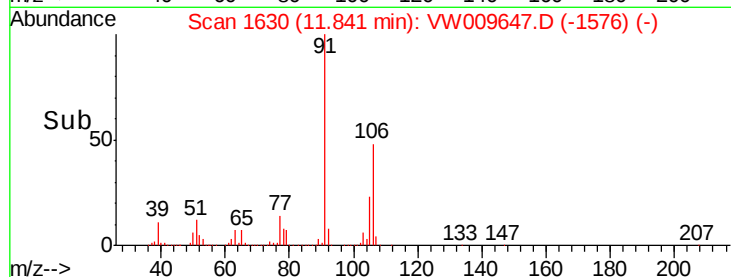
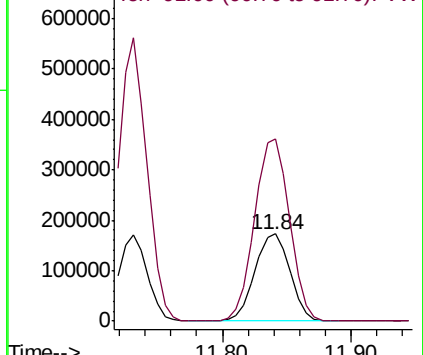
106 100

91 208.8 138.4 257.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 28.227 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW009647.D

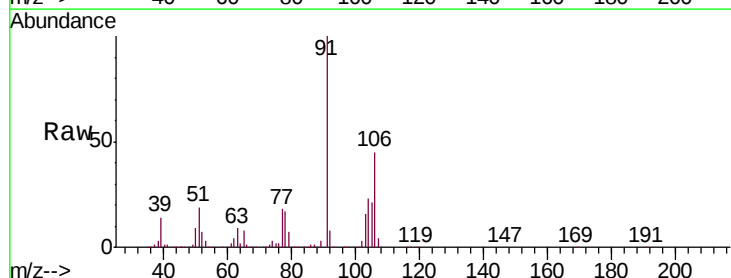
Acq: 02 Apr 2019 10:18

Tgt Ion:106 Resp: 314213

Ion Ratio Lower Upper

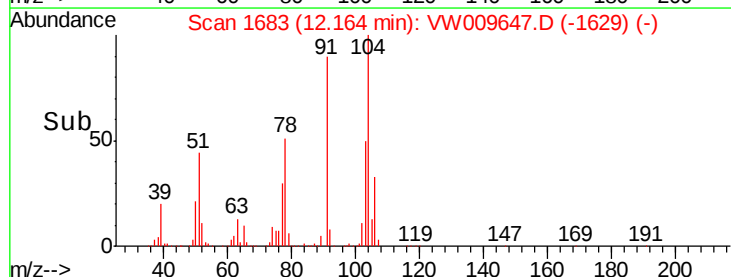
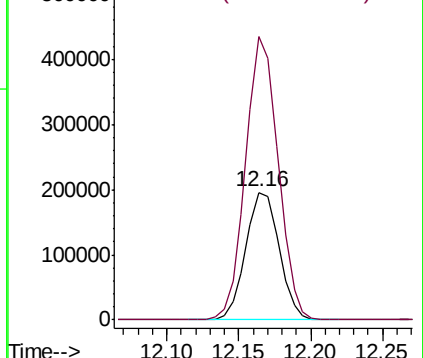
106 100

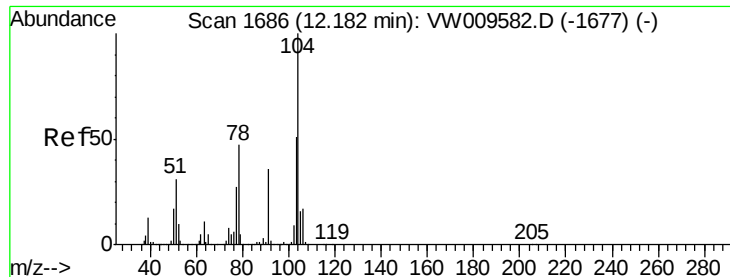
91 221.9 153.2 284.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 28.788 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

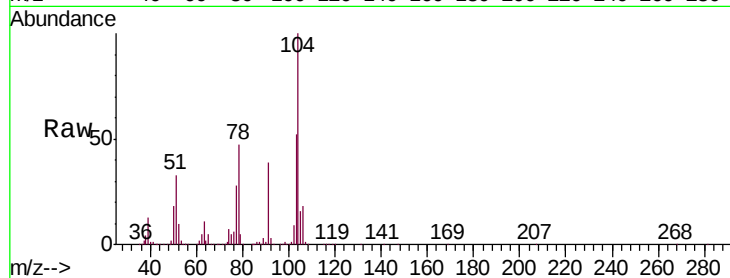
VSTD02508

Tgt Ion:104 Resp: 546770

Ion Ratio Lower Upper

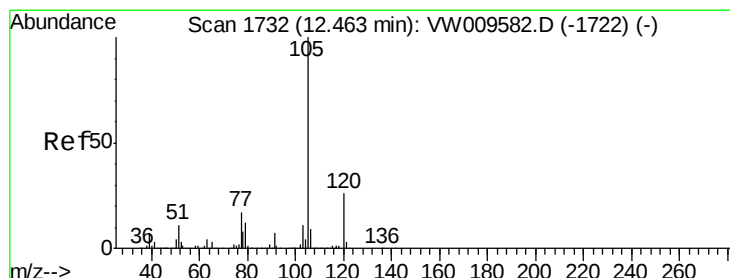
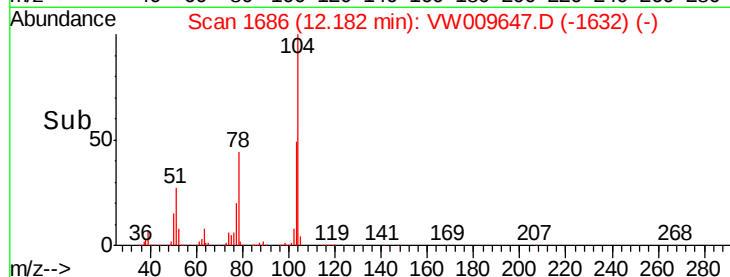
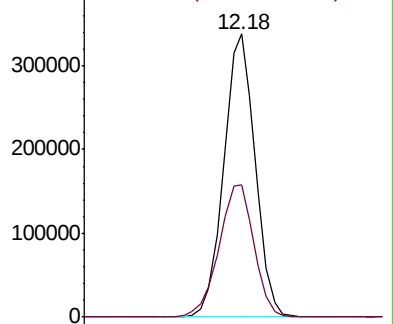
104 100

78 46.7 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 29.649 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

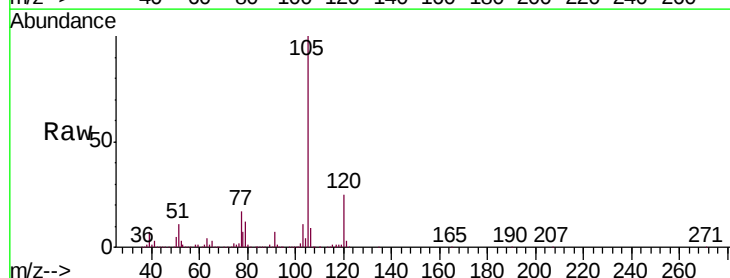
Tgt Ion:105 Resp: 884125

Ion Ratio Lower Upper

105 100

120 26.0 21.3 31.9

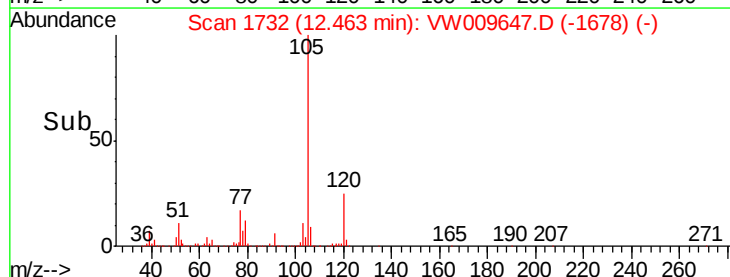
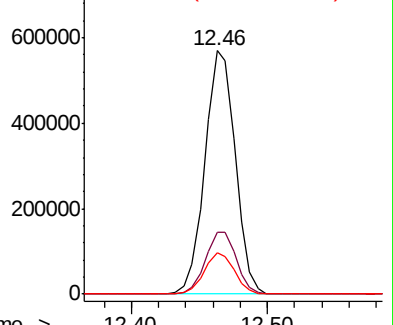
77 16.9 13.1 19.7

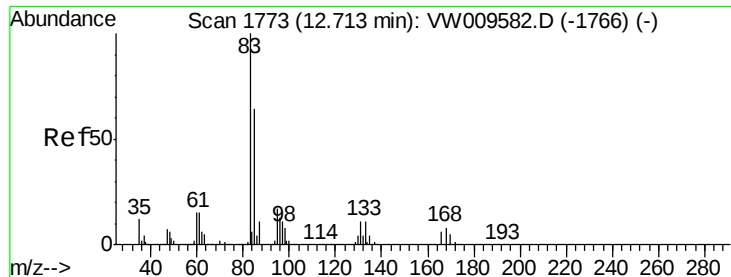


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 26.514 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

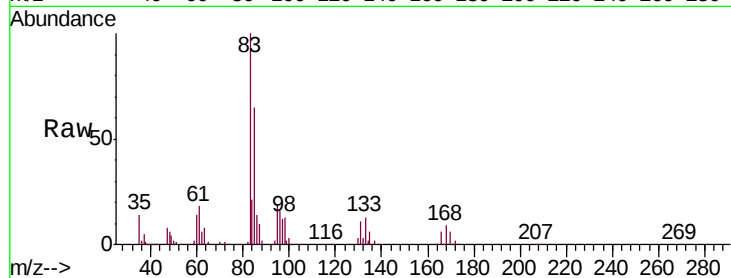
Tgt Ion: 83 Resp: 178916

Ion Ratio Lower Upper

83 100

85 65.1 45.6 84.8

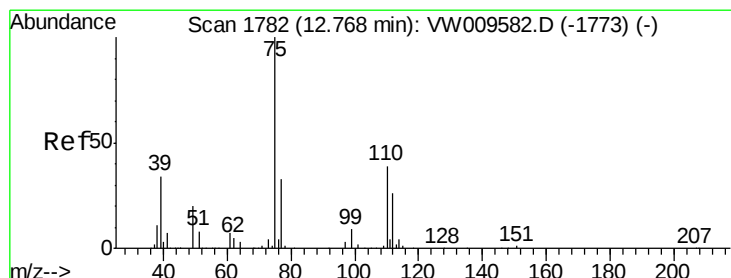
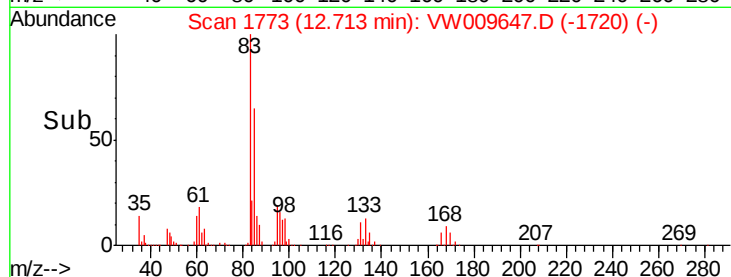
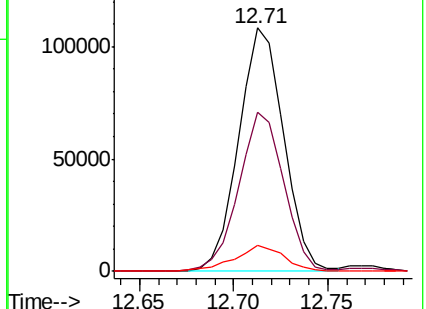
131 10.6 9.2 13.8



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): VW



#59

1,2,3-Trichloropropane

Concen: 26.552 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW009647.D

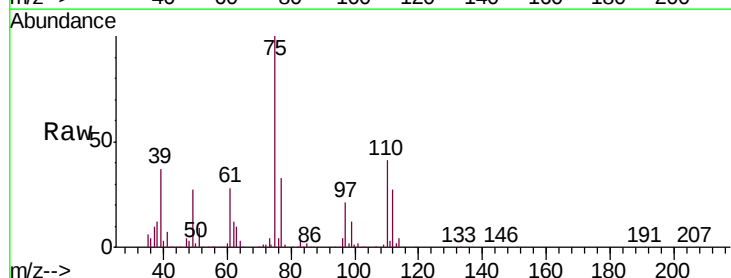
Acq: 02 Apr 2019 10:18

Tgt Ion: 75 Resp: 132967

Ion Ratio Lower Upper

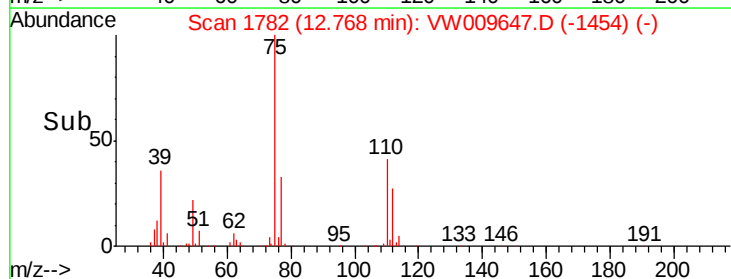
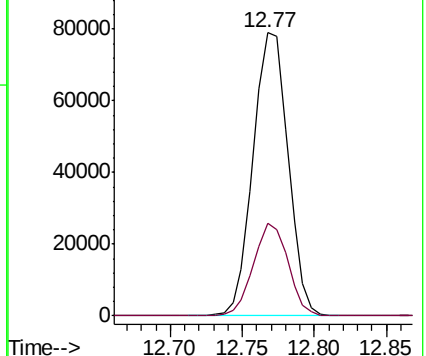
75 100

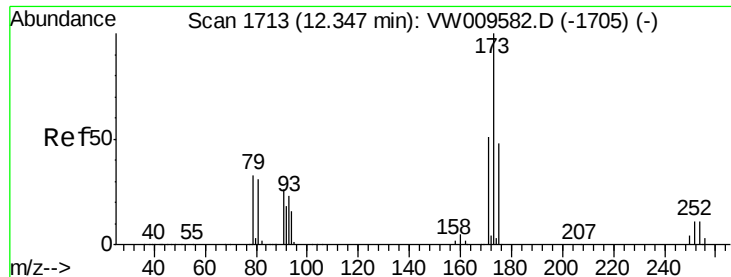
77 32.4 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#62

Bromoform

Concen: 25.514 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

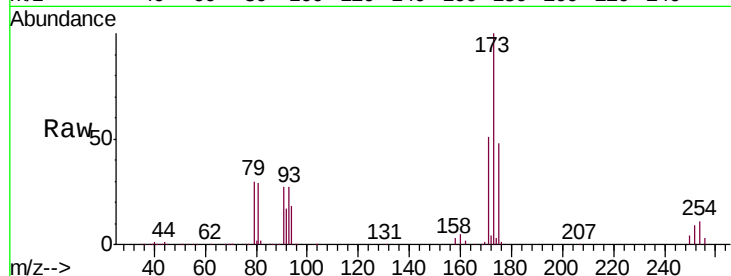
Tgt Ion:173 Resp: 99612

Ion Ratio Lower Upper

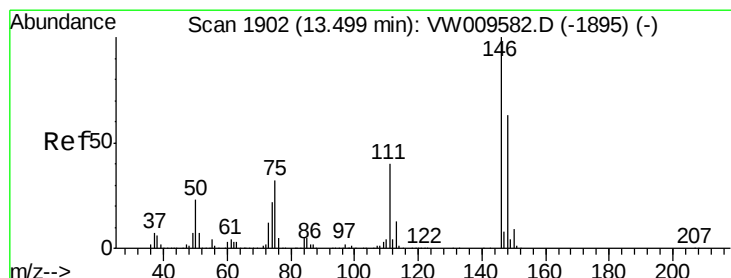
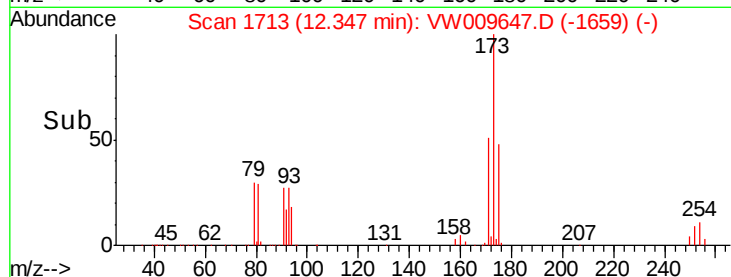
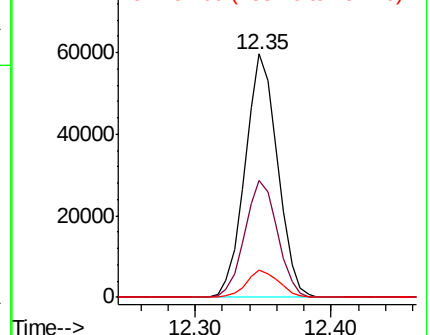
173 100

175 48.4 39.7 59.5

254 11.0 8.5 12.7



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 26.705 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

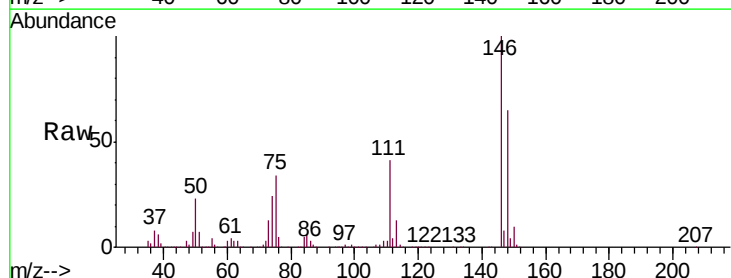
Tgt Ion:146 Resp: 367754

Ion Ratio Lower Upper

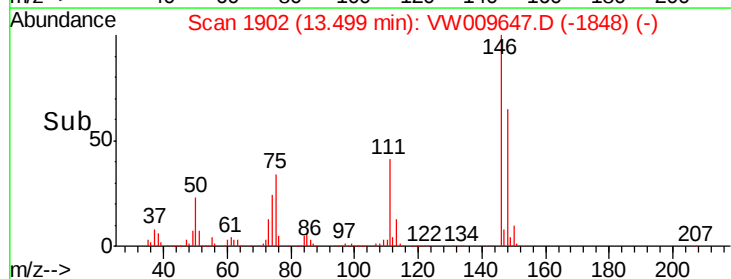
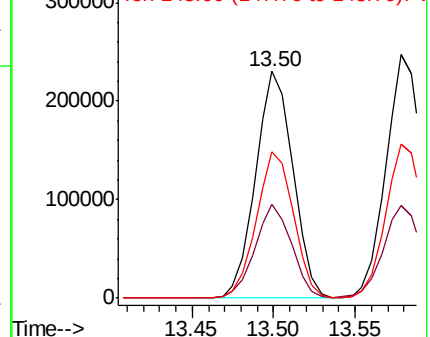
146 100

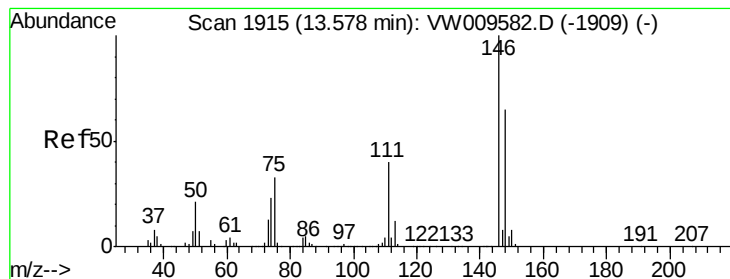
111 41.1 26.9 49.9

148 64.5 45.1 83.7



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





#64

1,4-Dichlorobenzene

Concen: 27.185 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

Instrument :

MSVOA_W

ClientSampleId :

VSTD02508

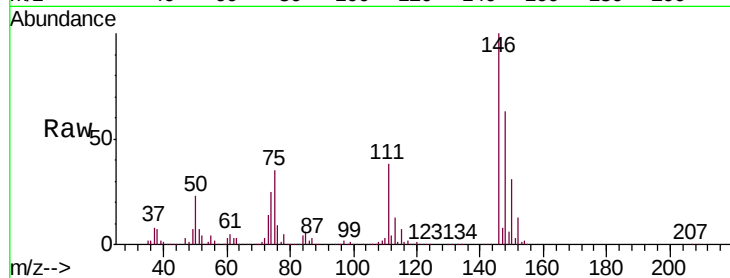
Tgt Ion:146 Resp: 387052

Ion Ratio Lower Upper

146 100

111 38.0 27.8 51.6

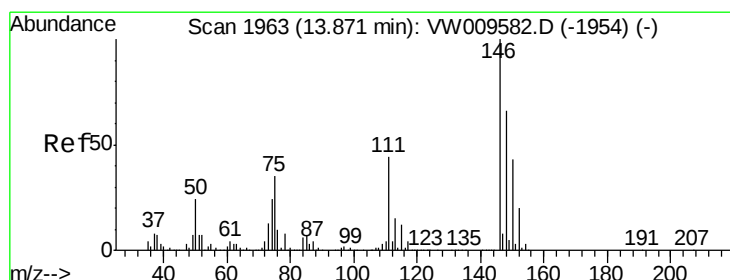
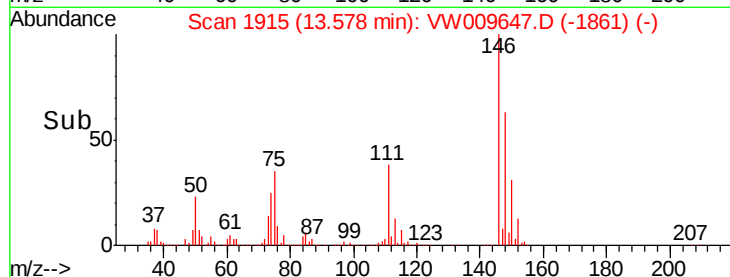
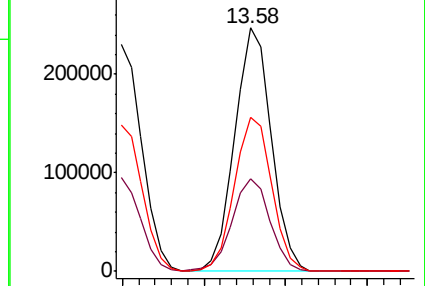
148 63.1 46.3 86.1



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: 27.142 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW009647.D

Acq: 02 Apr 2019 10:18

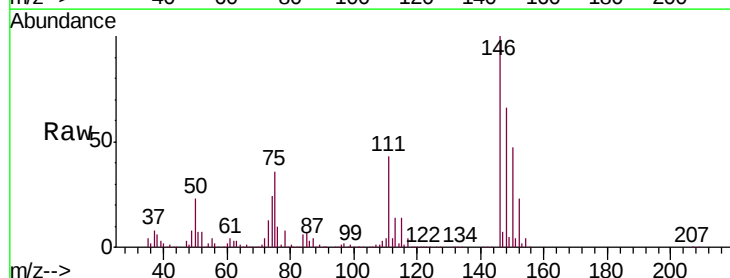
Tgt Ion:146 Resp: 356463

Ion Ratio Lower Upper

146 100

111 42.8 33.5 50.3

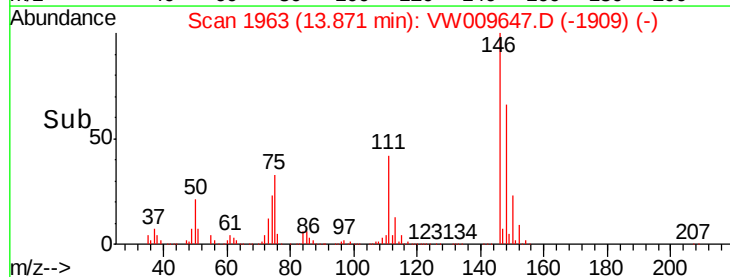
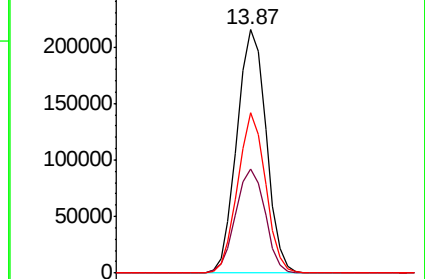
148 65.9 50.2 75.2

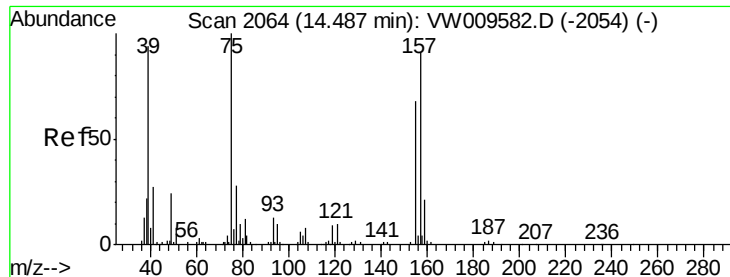


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

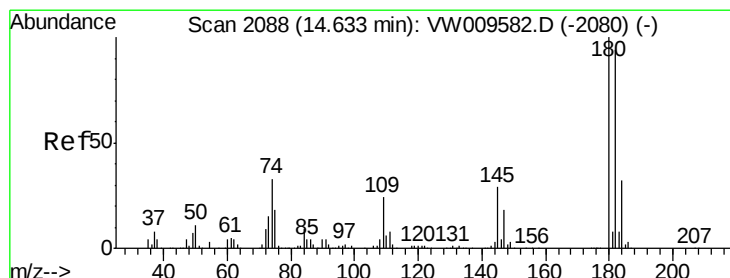
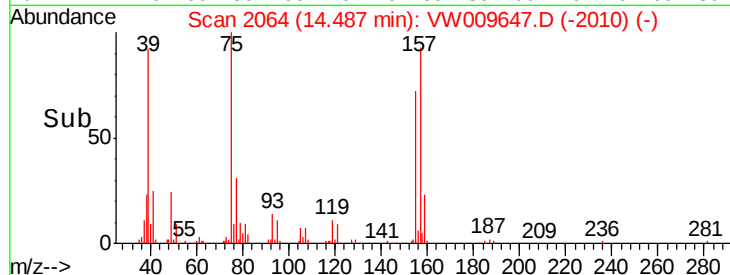
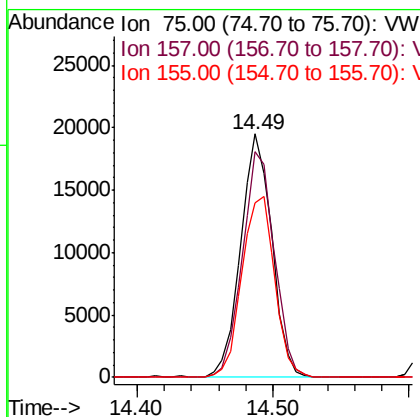
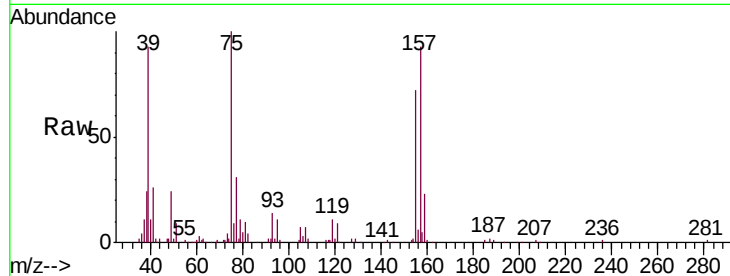




#66
 1,2-Dibromo-3-chloropropane
 Concen: 24.202 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW009647.D
 Acq: 02 Apr 2019 10:18

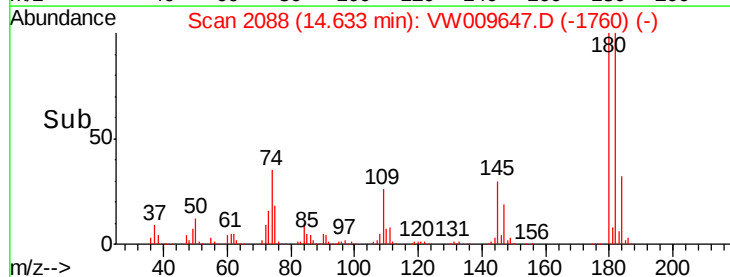
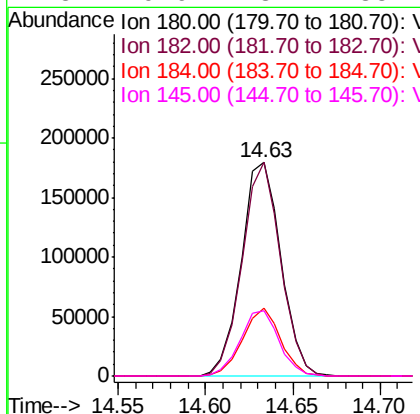
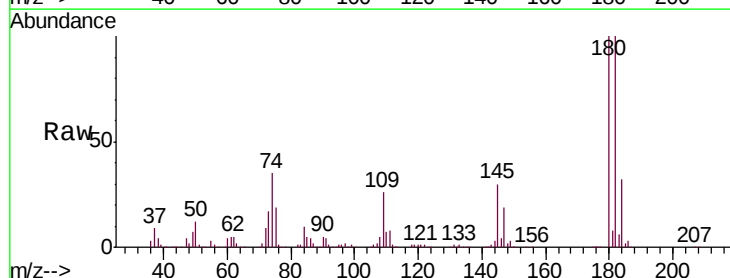
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

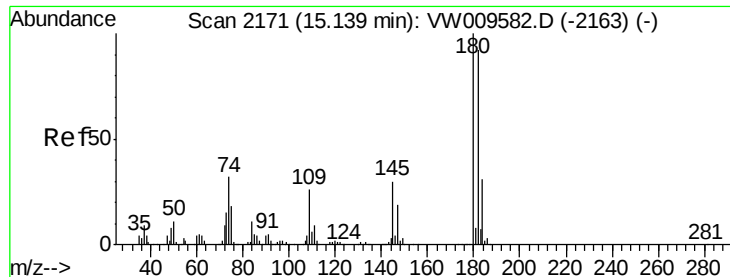
Tgt Ion: 75 Resp: 31151
 Ion Ratio Lower Upper
 75 100
 157 92.7 89.0 133.4
 155 71.7 64.2 96.2



#67
 1,3,5-Trichlorobenzene
 Concen: 26.407 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW009647.D
 Acq: 02 Apr 2019 10:18

Tgt Ion: 180 Resp: 283647
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.1 114.1
 184 30.3 23.8 35.6
 145 29.9 23.4 35.2

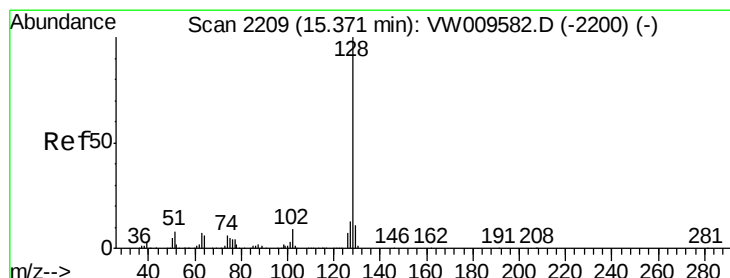
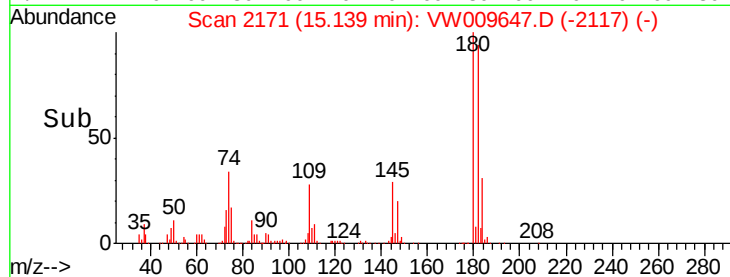
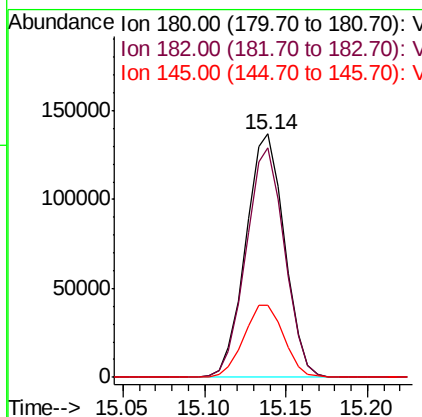
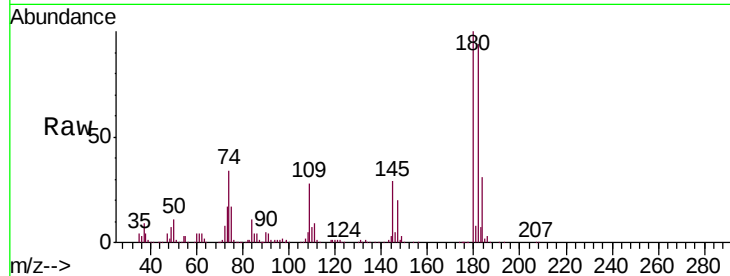




#68
 1,2,4-trichlorobenzene
 Concen: 25.168 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW009647.D
 Acq: 02 Apr 2019 10:18

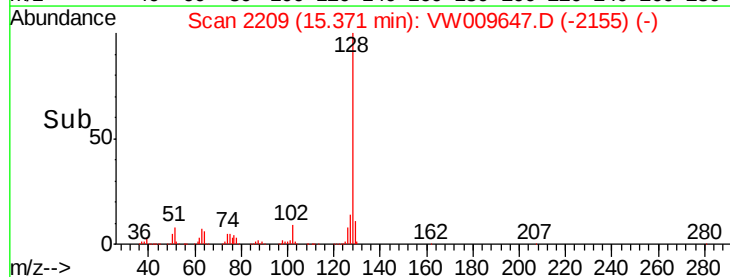
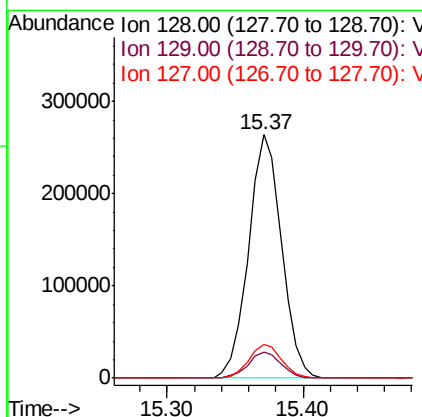
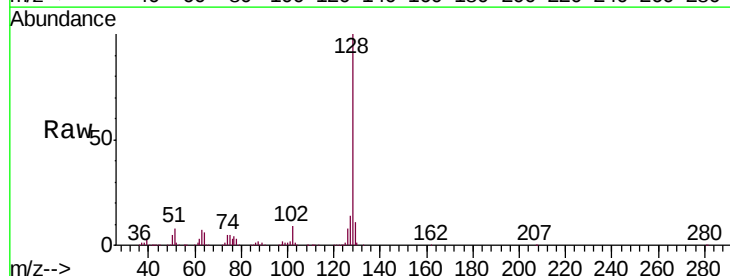
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

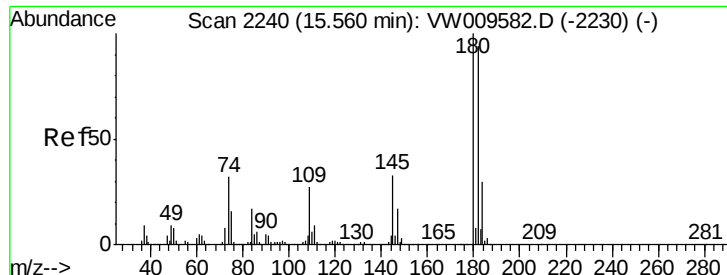
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	75.5	113.3
145	30.5	24.1	36.1



#69
 Naphthalene
 Concen: 24.066 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.00 min
 Lab File: VW009647.D
 Acq: 02 Apr 2019 10:18

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.7	13.1
127	13.7	11.1	16.7

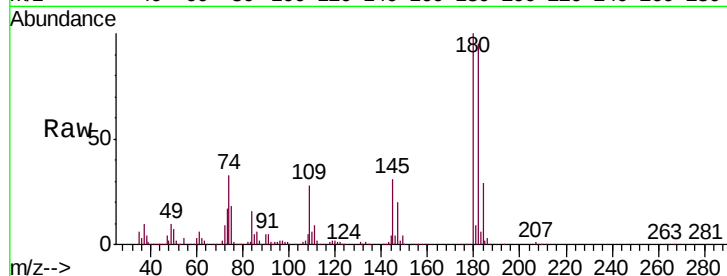




#70
 1,2,3-Trichlorobenzene
 Concen: 24.875 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. -0.00 min
 Lab File: VW009647.D
 Acq: 02 Apr 2019 10:18

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02508

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	77.2	115.8
145	32.1	25.8	38.6



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

