

Data File : VW009416.D
Acq On : 24 Mar 2019 03:33
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 4.92G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

Quant Time: Mar 24 04:00:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Sat Mar 23 23:52:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	401185	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	395176	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	204106	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	100206	20.90	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.60%
7) Chloroethane-d5	2.89	69	115562	20.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.40%
10) 1,1-Dichloroethene-d2	4.02	63	236619	22.84	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	91.36%
20) 2-Butanone-d5	7.08	46	107434	54.19	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.38%
24) Chloroform-d	7.64	84	282058	25.76	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.04%
26) 1,2-Dichloroethane-d4	8.31	65	174547	26.47	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.88%
29) Benzene-d6	8.27	84	510540	23.43	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.72%
33) 1,2-Dichloropropane-d6	9.27	67	165430	25.27	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.08%
37) Toluene-d8	10.32	98	476345	23.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.56%
38) trans-1,3-Dichloropropene-	10.57	79	74344	22.61	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	90.44%
39) 2-Hexanone-d5	10.93	63	85027	53.63	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.26%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	177034	27.46	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	109.84%
61) 1,2-Dichlorobenzene-d4	13.86	152	189902	24.26	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.04%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	112235	21.237	ug/L	90
3) Chloromethane	2.21	50	129842	23.157	ug/L	99
5) Vinyl chloride	2.37	62	159878	27.702	ug/L	98
6) Bromomethane	2.78	94	125281	25.910	ug/L	98
8) Chloroethane	2.93	64	121124	25.367	ug/L	90
9) Trichlorofluoromethane	3.25	101	86639	19.005	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	129257	24.551	ug/L	97
12) 1,1-Dichloroethene	4.03	96	129446	26.202	ug/L	91
13) Acetone	4.12	43	73151	44.991	ug/L	97
14) Carbon disulfide	4.38	76	357079	26.857	ug/L	100
15) Methyl Acetate	4.67	43	92137	28.846	ug/L	97
16) Methylene chloride	4.92	84	153651	26.263	ug/L	98
17) Methyl tert-butyl Ether	5.42	73	187825	26.870	ug/L #	79
18) trans-1,2-Dichloroethene	5.42	96	137072	26.390	ug/L	98
19) 1,1-Dichloroethane	6.21	63	266373	28.126	ug/L	99
21) 2-Butanone	7.17	43	123586	55.050	ug/L	98
22) cis-1,2-Dichloroethene	7.16	96	156333	27.784	ug/L	97

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Quant Title : VOC Analysis
QLast Update : Sat Mar 23 23:52:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	75283	27.896	ug/L	93
25) Chloroform	7.67	83	286468	28.884	ug/L	99
27) 1,2-Dichloroethane	8.40	62	221204	29.914	ug/L	98
30) Cyclohexane	7.95	56	216508	24.124	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	212795	26.961	ug/L	99
32) Carbon tetrachloride	8.06	117	211628	26.576	ug/L	99
34) Benzene	8.32	78	601068	27.789	ug/L	100
35) Trichloroethene	9.09	95	151600	26.303	ug/L	99
36) Methylcyclohexane	9.33	83	243764	24.446	ug/L	99
40) 1,2-Dichloropropane	9.37	63	155297	27.980	ug/L	99
41) Bromodichloromethane	9.64	83	218650	28.431	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	239905	26.538	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	279162	55.505	ug/L	99
44) Toluene	10.38	91	650448	27.504	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	209796	26.678	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	126672	28.607	ug/L	98
47) Tetrachloroethene	10.86	164	120798	24.805	ug/L	99
49) 2-Hexanone	10.97	43	204623	57.765	ug/L	100
50) Dibromochloromethane	11.13	129	155353	28.421	ug/L	97
51) 1,2-Dibromoethane	11.23	107	124596	27.756	ug/L	94
52) Chlorobenzene	11.66	112	413072	27.233	ug/L	98
53) Ethylbenzene	11.73	91	729618	27.442	ug/L	100
54) m,p-Xylene	11.84	106	272064	26.934	ug/L	95
55) o-xylene	12.16	106	269247	27.322	ug/L	96
56) Styrene	12.18	104	475683	28.291	ug/L	97
57) Isopropylbenzene	12.46	105	722007	27.351	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	172930	28.949	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	127696	28.804	ug/L	99
62) Bromoform	12.35	173	98326	28.512	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	321211	26.406	ug/L	96
64) 1,4-Dichlorobenzene	13.58	146	336444	26.752	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	322916	27.836	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	32516	28.599	ug/L	86
67) 1,3,5-Trichlorobenzene	14.63	180	239478	25.240	ug/L	100
68) 1,2,4-trichlorobenzene	15.14	180	201143	25.238	ug/L	100
69) Naphthalene	15.37	128	475002	28.747	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	202155	27.081	ug/L	99

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

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Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

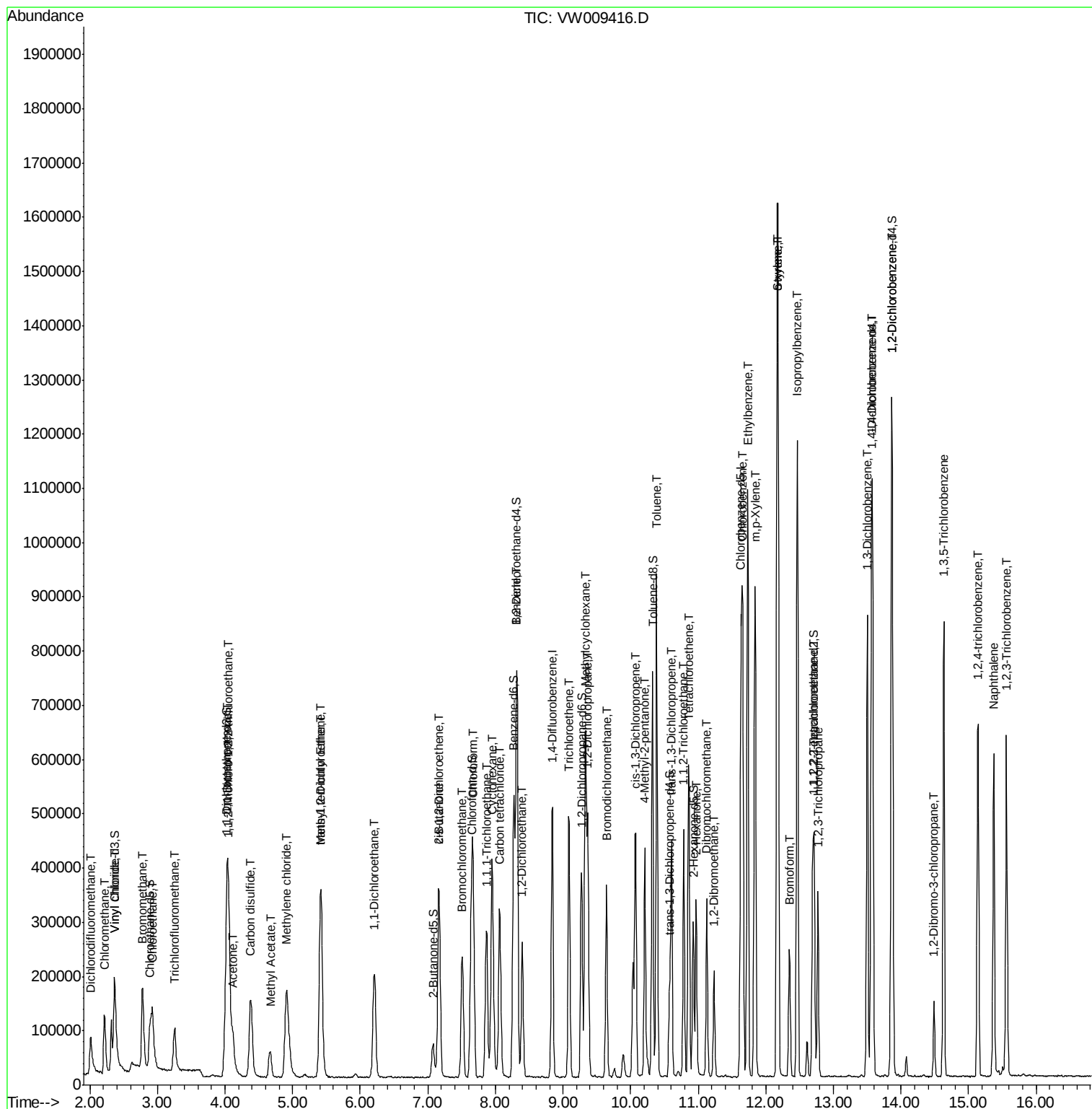
Quant Time: Mar 24 04:00:50 2019

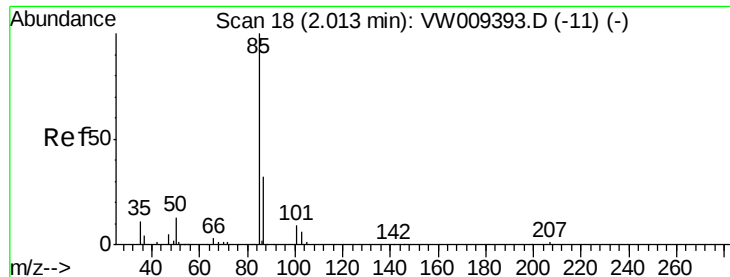
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_W\METHOD\SOM2WLM031419S.M

Quant Title : VOC Analysis

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 21.237 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

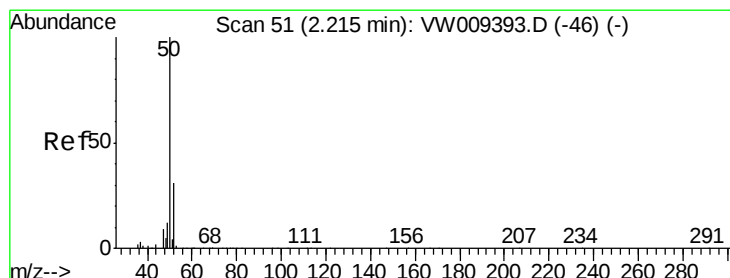
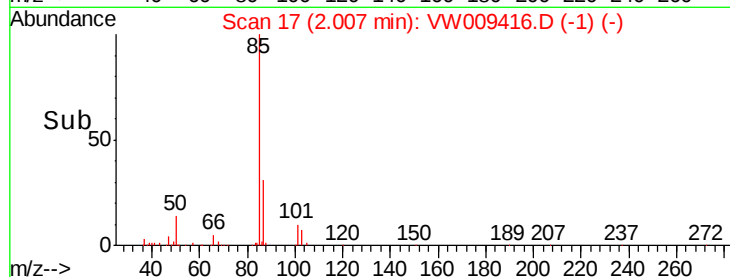
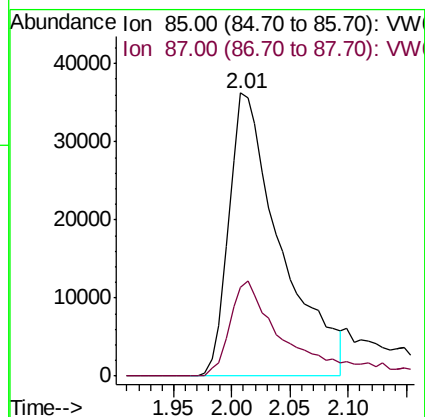
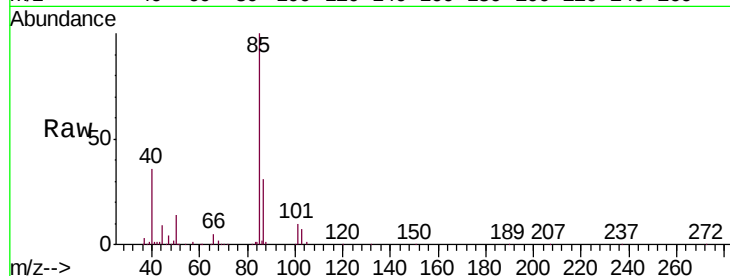
VSTD02524

Tgt Ion: 85 Resp: 112235

Ion Ratio Lower Upper

85 100

87 33.3 19.5 36.3



#3

Chloromethane

Concen: 23.157 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW009416.D

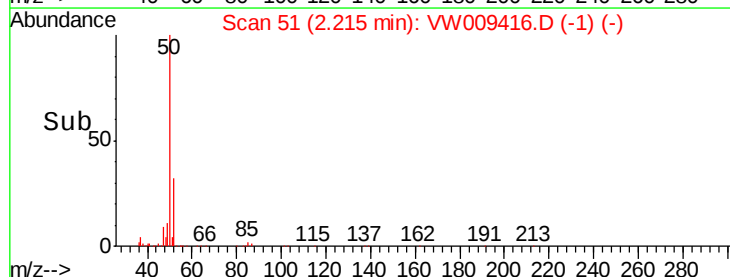
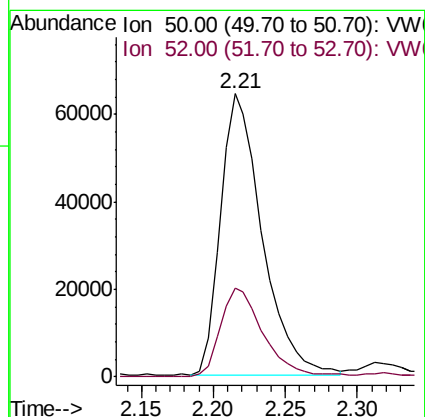
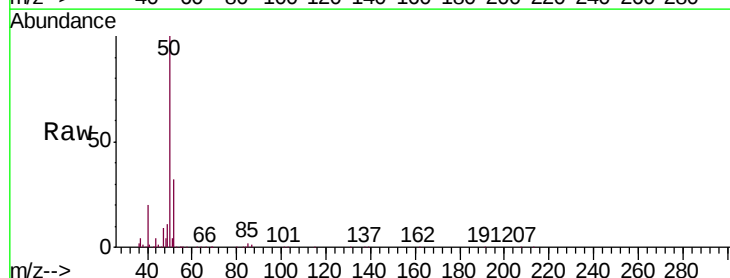
Acq: 24 Mar 2019 03:33

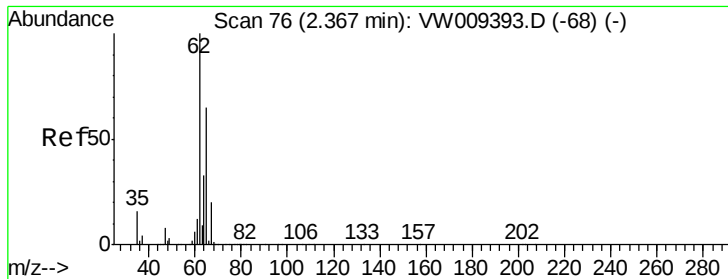
Tgt Ion: 50 Resp: 129842

Ion Ratio Lower Upper

50 100

52 31.6 21.6 40.2





#5

Vinyl chloride

Concen: 27.702 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

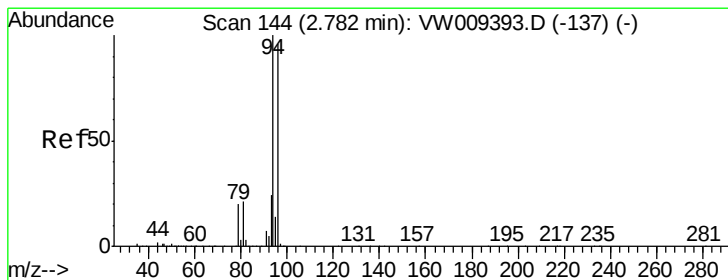
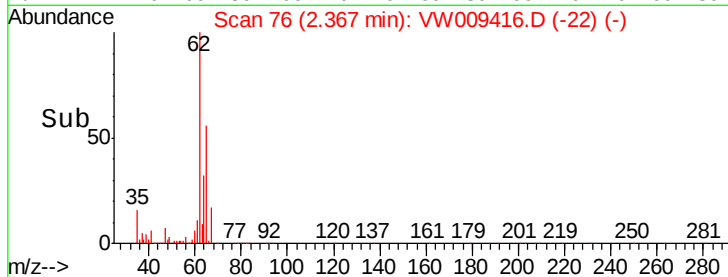
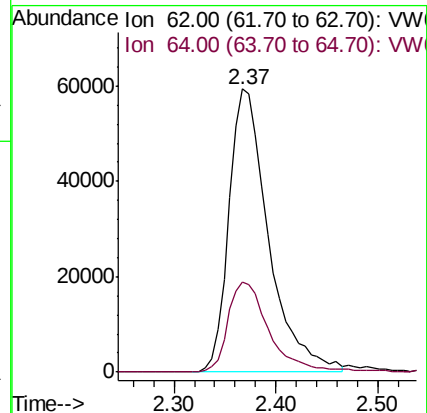
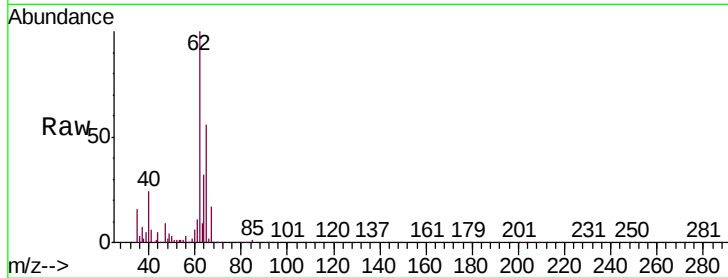
VSTD02524

Tgt Ion: 62 Resp: 159878

Ion Ratio Lower Upper

62 100

64 31.7 23.0 42.6



#6

Bromomethane

Concen: 25.910 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW009416.D

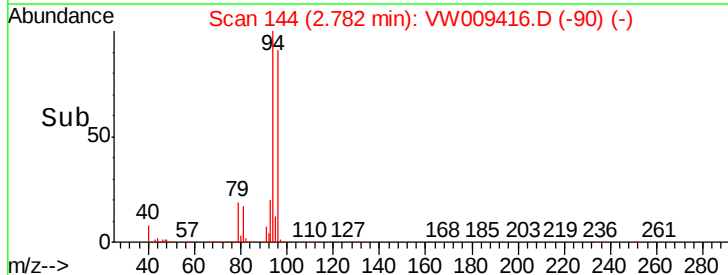
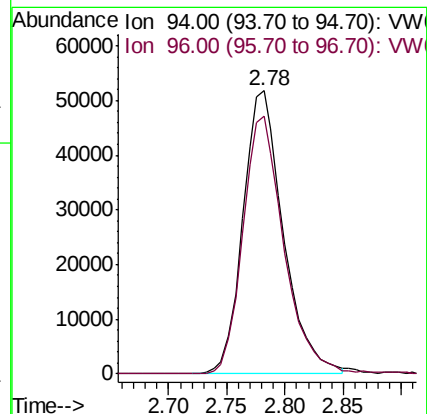
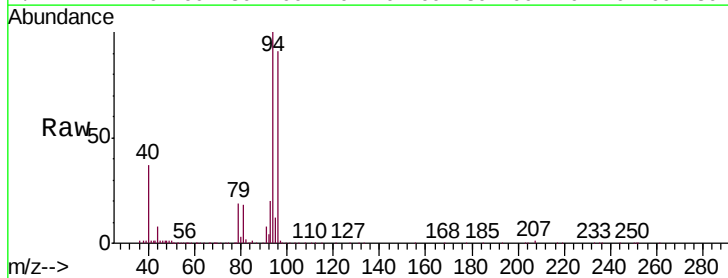
Acq: 24 Mar 2019 03:33

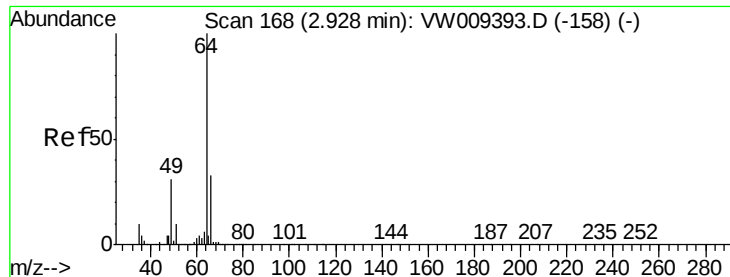
Tgt Ion: 94 Resp: 125281

Ion Ratio Lower Upper

94 100

96 91.8 9.4 178.4





#8

Chloroethane

Concen: 25.367 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

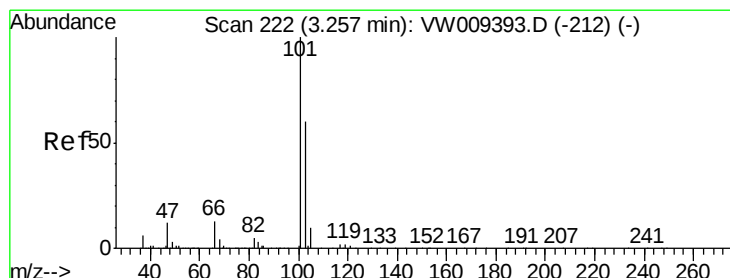
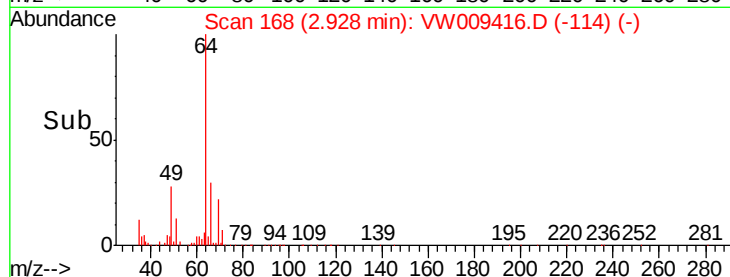
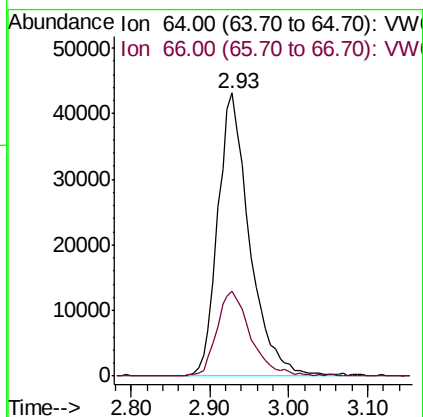
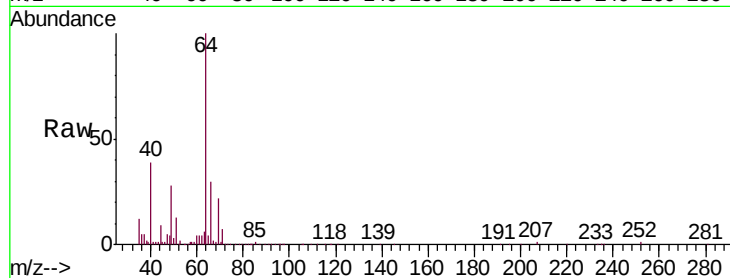
VSTD02524

Tgt Ion: 64 Resp: 121124

Ion Ratio Lower Upper

64 100

66 29.8 25.1 46.7



#9

Trichlorofluoromethane

Concen: 19.005 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW009416.D

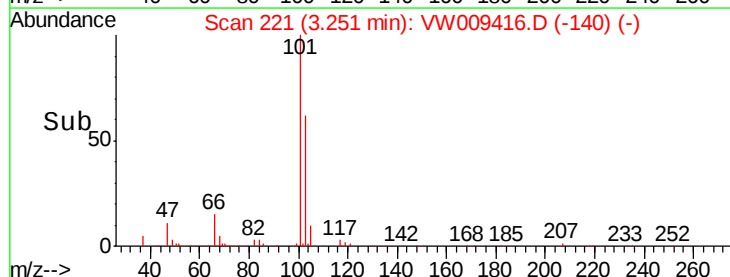
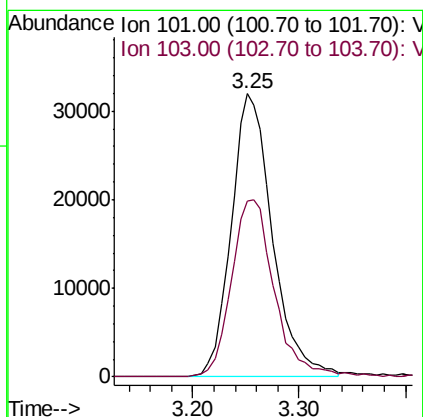
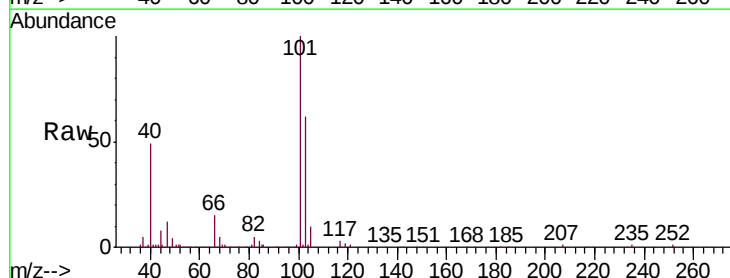
Acq: 24 Mar 2019 03:33

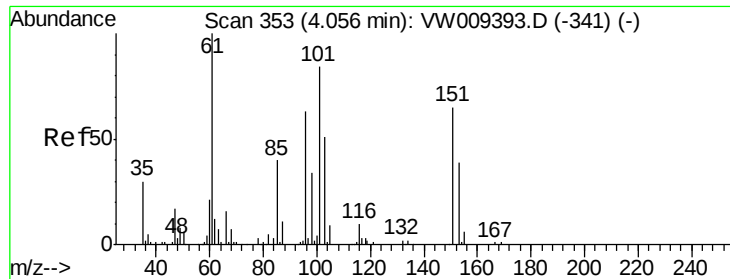
Tgt Ion: 101 Resp: 86639

Ion Ratio Lower Upper

101 100

103 65.0 45.0 83.6





#11

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

Concen: 24.551 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

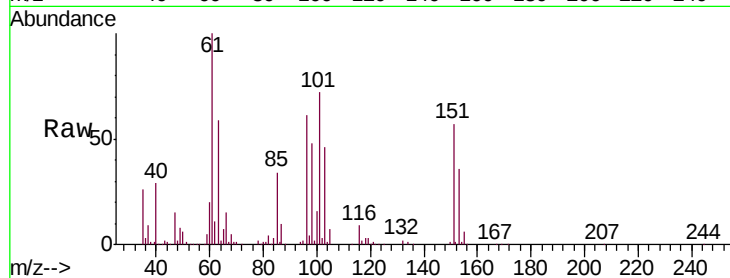
Tgt Ion: 101 Resp: 129257

Ion Ratio Lower Upper

101 100

85 46.4 32.6 48.8

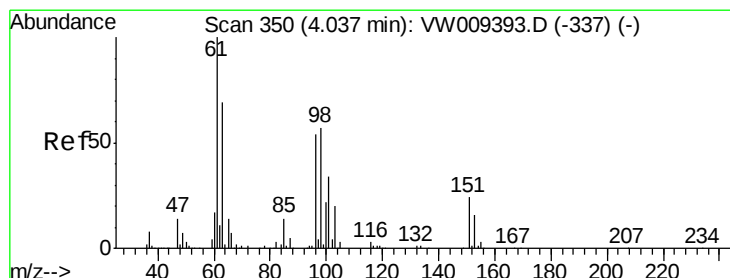
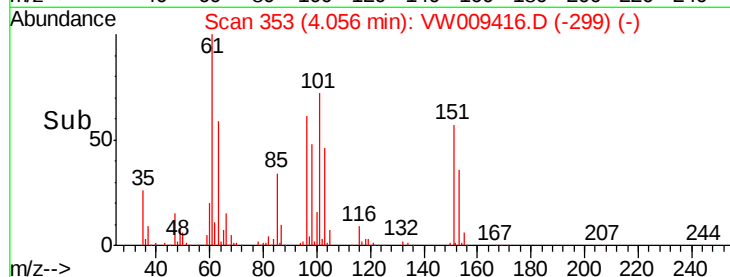
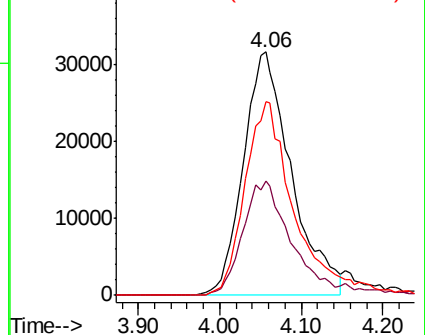
151 79.1 63.3 94.9



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: 26.202 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

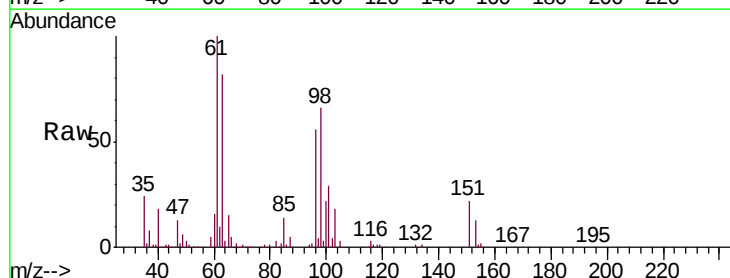
Tgt Ion: 96 Resp: 129446

Ion Ratio Lower Upper

96 100

61 178.5 129.4 240.2

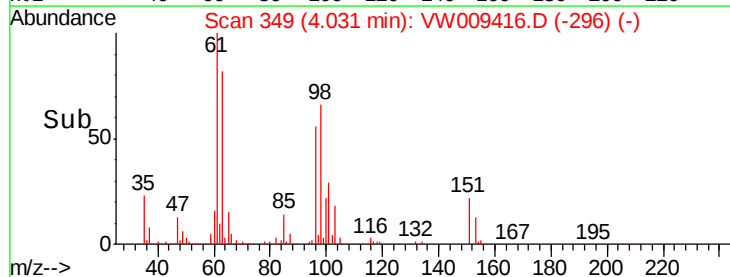
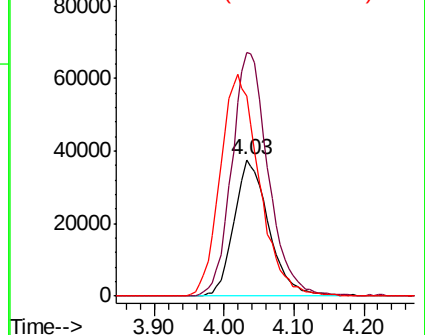
63 146.5 116.8 217.0

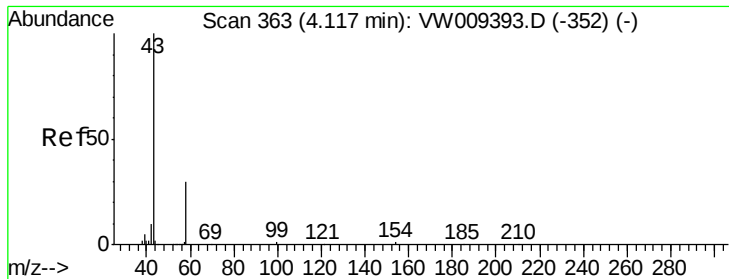


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 44.991 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

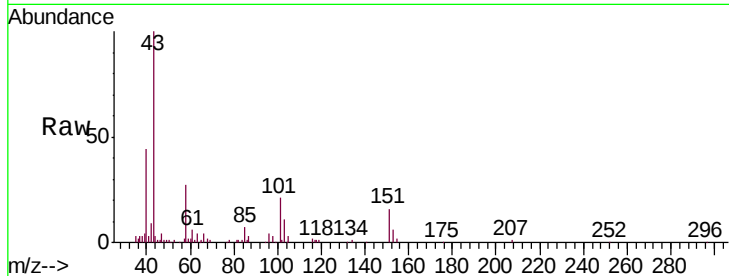
VSTD02524

Tgt Ion: 43 Resp: 73151

Ion Ratio Lower Upper

43 100

58 29.6 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

30000

25000

20000

15000

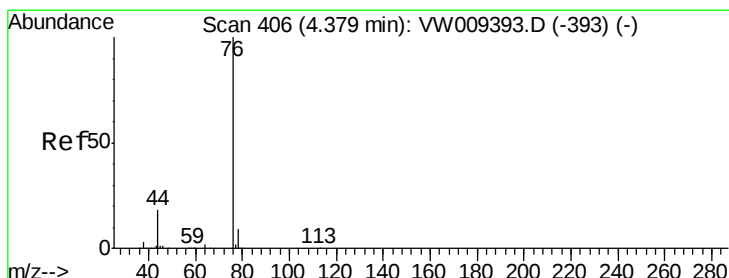
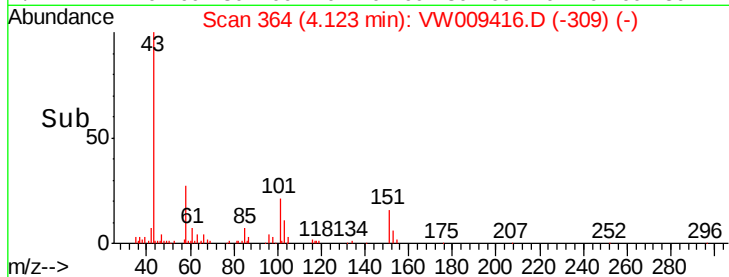
10000

5000

0

4.05 4.10 4.15 4.20

Time-->



#14

Carbon disulfide

Concen: 26.857 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW009416.D

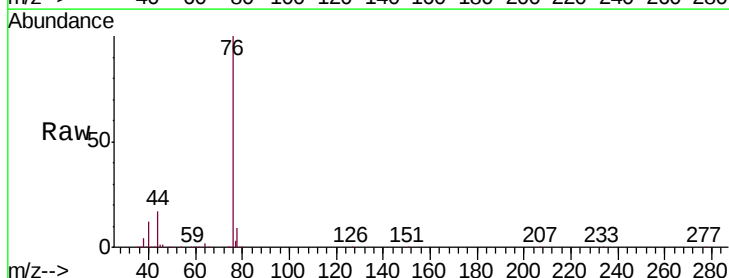
Acq: 24 Mar 2019 03:33

Tgt Ion: 76 Resp: 357079

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

120000

100000

80000

60000

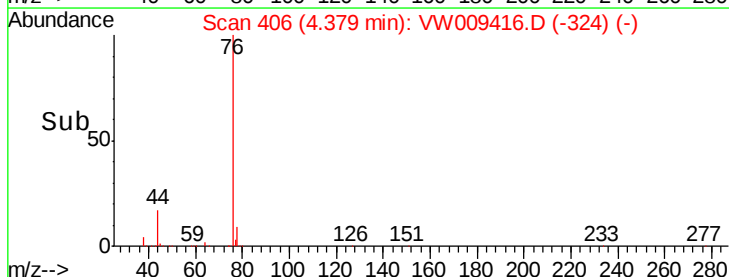
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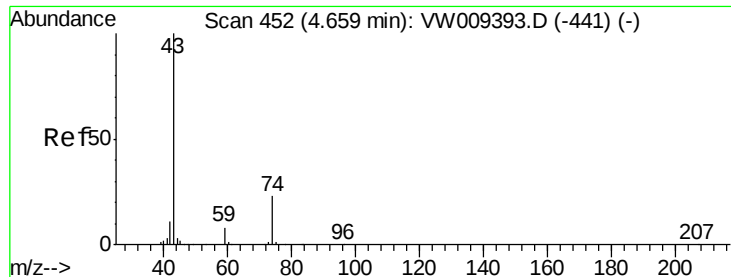
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4.20 4.30 4.40 4.50

Time-->

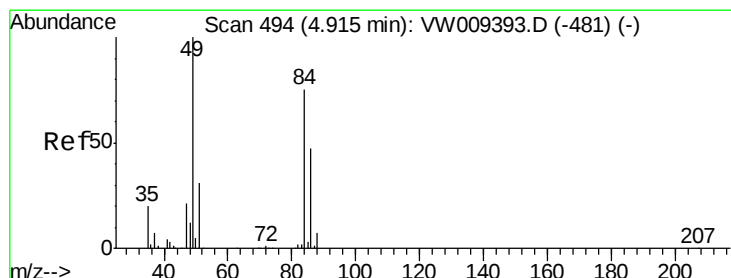
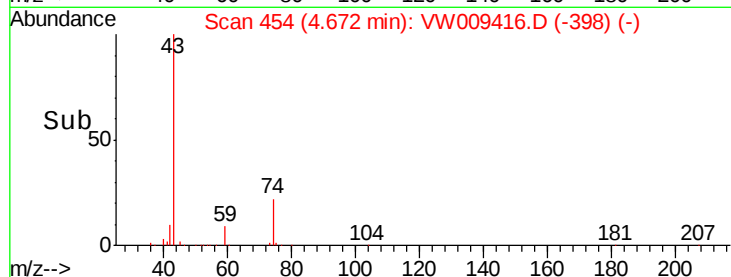
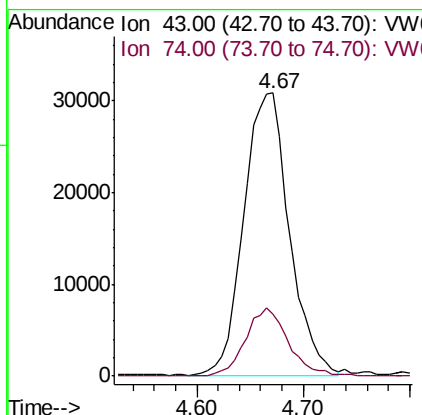
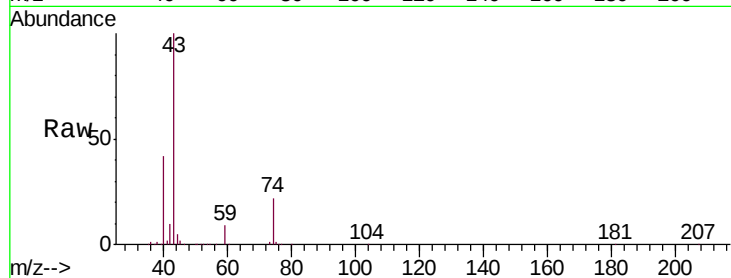




#15
Methyl Acetate
Concen: 28.846 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

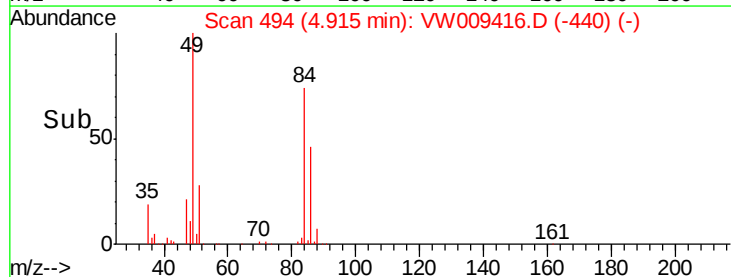
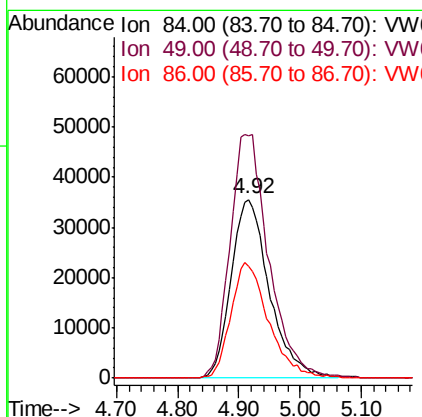
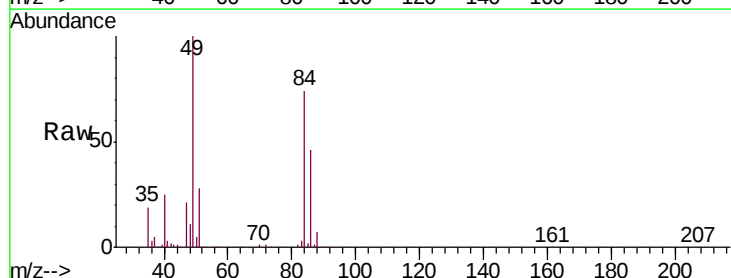
Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

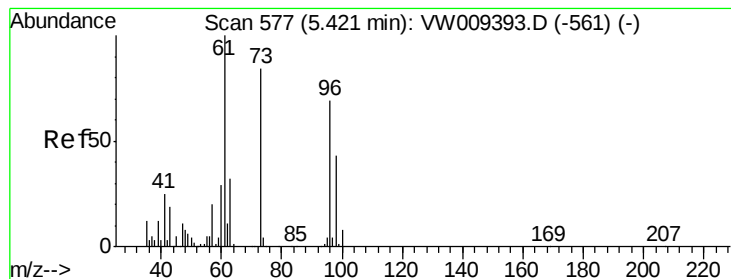
Tgt Ion: 43 Resp: 92137
Ion Ratio Lower Upper
43 100
74 22.1 16.7 25.1



#16
Methylene chloride
Concen: 26.263 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

Tgt Ion: 84 Resp: 153651
Ion Ratio Lower Upper
84 100
49 135.3 96.0 178.2
86 62.2 44.4 82.5





#17

Methyl tert-butyl Ether

Concen: 26.870 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

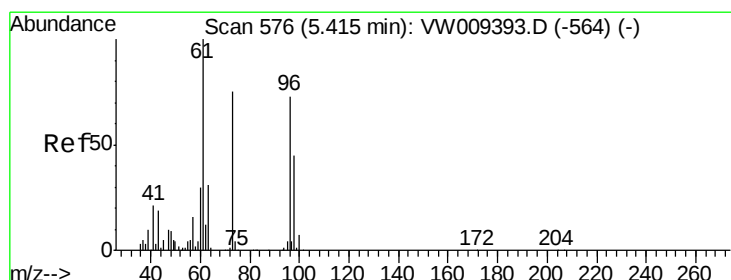
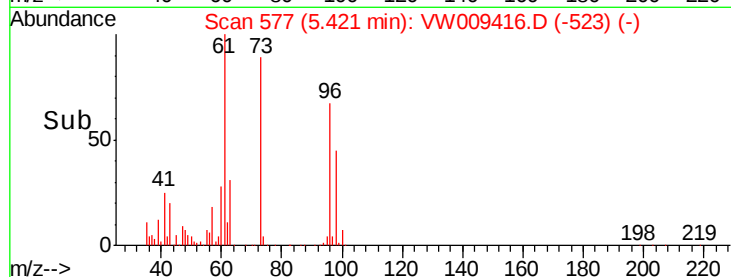
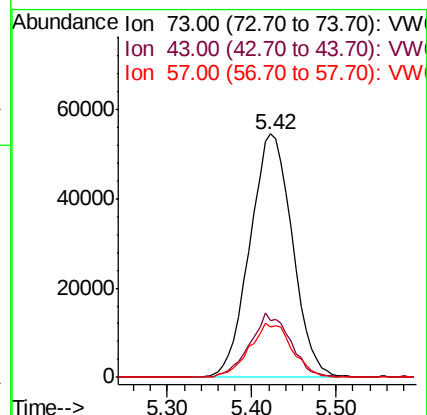
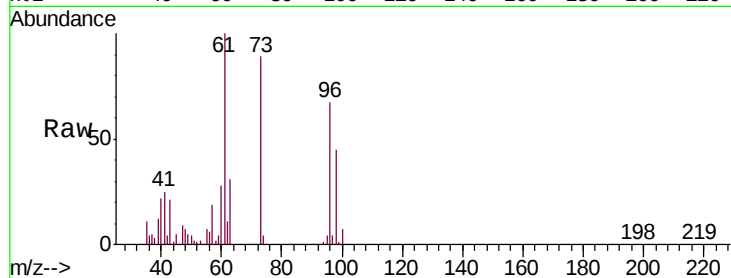
Tgt Ion: 73 Resp: 187825

Ion Ratio Lower Upper

73 100

43 13.1 18.2 27.4#

57 11.8 17.8 26.8#



#18

trans-1,2-Dichloroethene

Concen: 26.390 ug/L

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

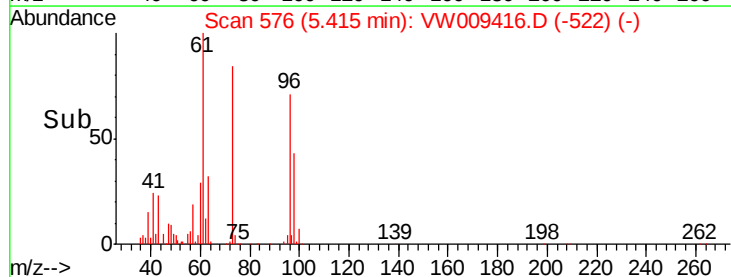
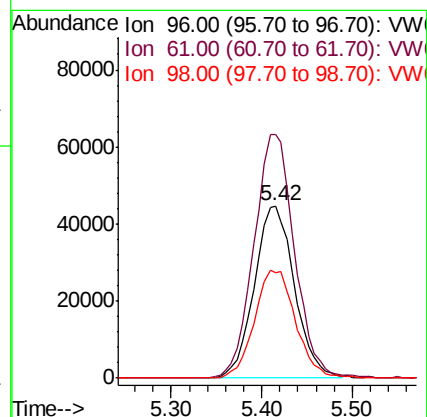
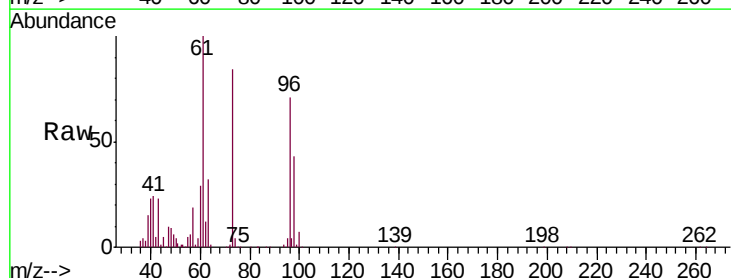
Tgt Ion: 96 Resp: 137072

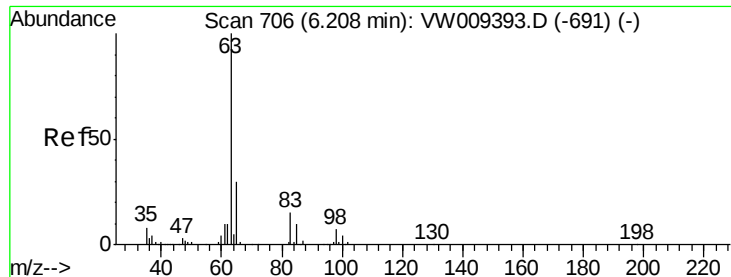
Ion Ratio Lower Upper

96 100

61 140.9 96.7 179.5

98 61.0 43.8 81.4

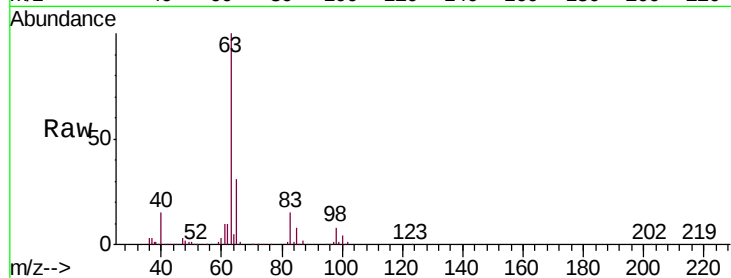




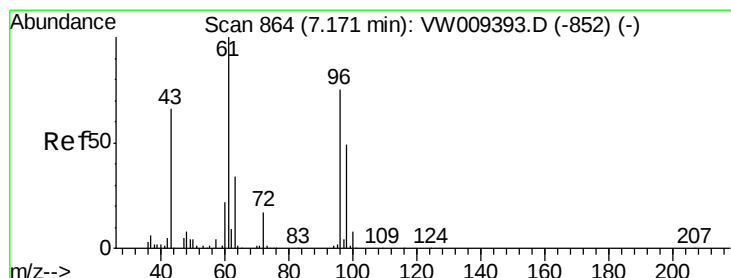
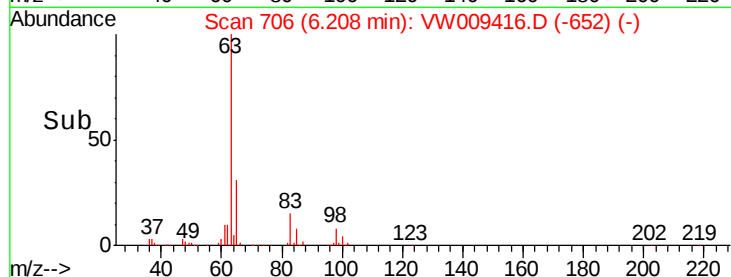
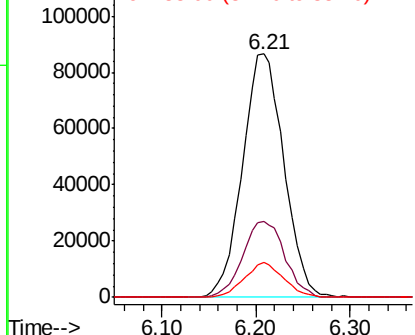
#19
 1,1-Dichloroethane
 Concen: 28.126 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VW009416.D
 Acq: 24 Mar 2019 03:33

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02524

Tgt Ion: 63 Resp: 266373
 Ion Ratio Lower Upper
 63 100
 65 31.4 21.6 40.0
 83 14.6 10.1 18.7

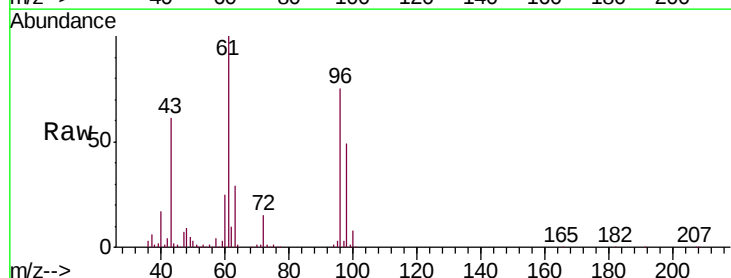


Abundance Ion 63.00 (62.70 to 63.70): VW
 Ion 65.00 (64.70 to 65.70): VW
 Ion 83.00 (82.70 to 83.70): VW

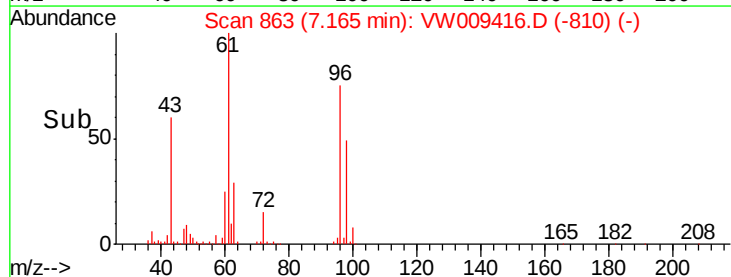
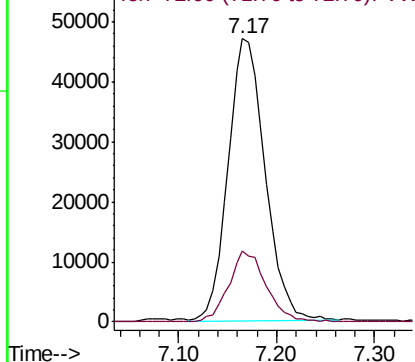


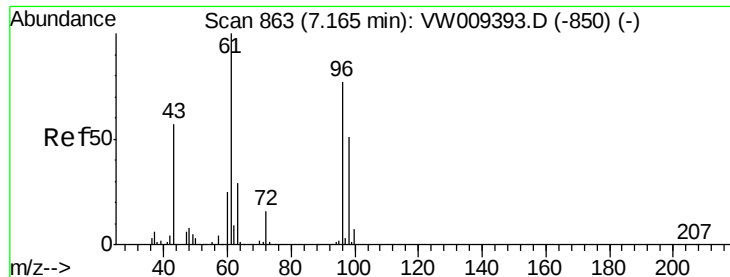
#21
 2-Butanone
 Concen: 55.050 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW009416.D
 Acq: 24 Mar 2019 03:33

Tgt Ion: 43 Resp: 123586
 Ion Ratio Lower Upper
 43 100
 72 25.2 13.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VW
 Ion 72.00 (71.70 to 72.70): VW



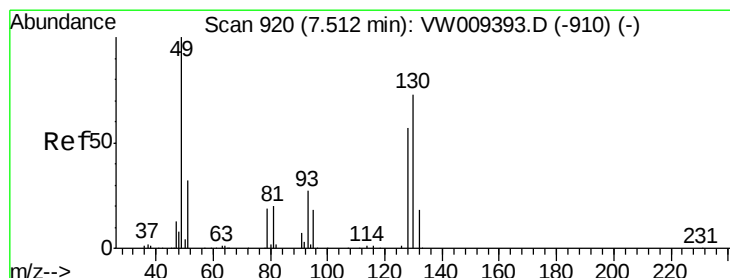
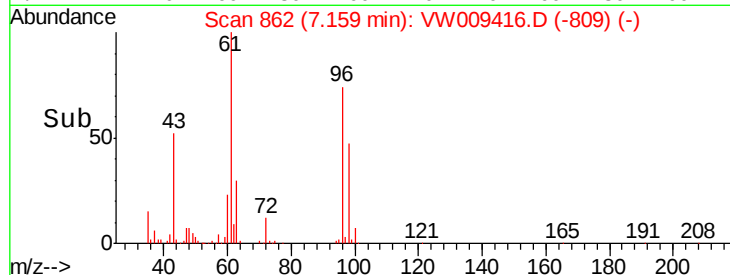
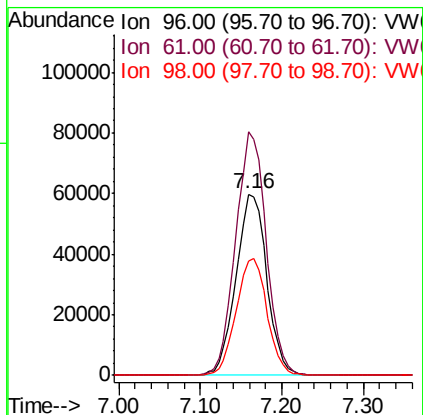
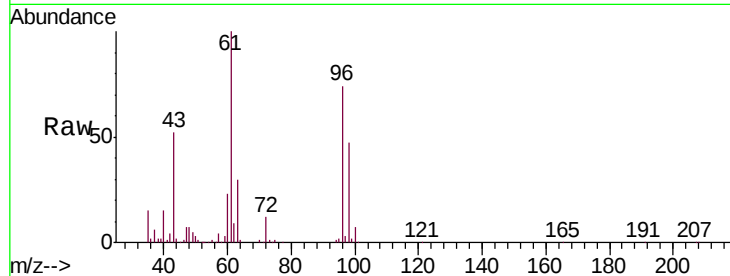


#22

cis-1,2-Dichloroethene
Concen: 27.784 ug/L
RT: 7.16 min Scan# 862
Delta R.T. -0.01 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

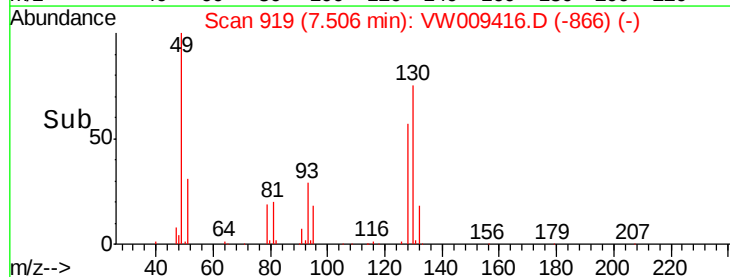
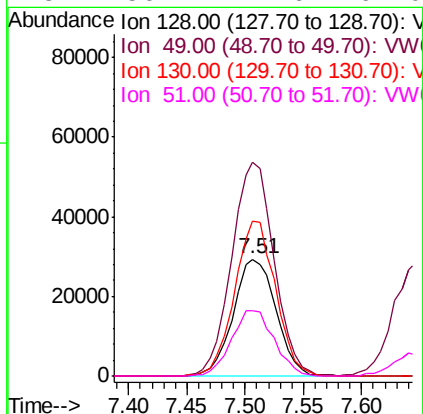
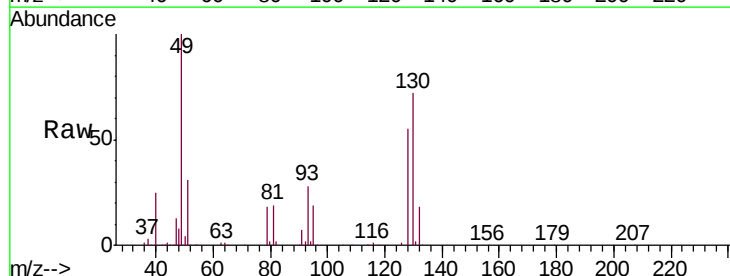
Tgt Ion: 96 Resp: 156333
Ion Ratio Lower Upper
96 100
61 134.4 90.6 168.3
98 63.2 44.0 81.8

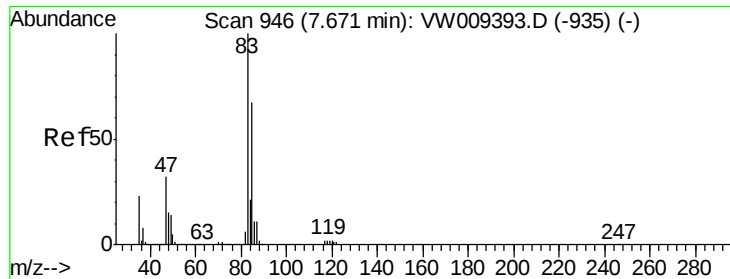


#23

Bromochloromethane
Concen: 27.896 ug/L
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

Tgt Ion: 128 Resp: 75283
Ion Ratio Lower Upper
128 100
49 182.5 118.4 219.8
130 132.0 87.8 163.2
51 56.1 44.6 67.0

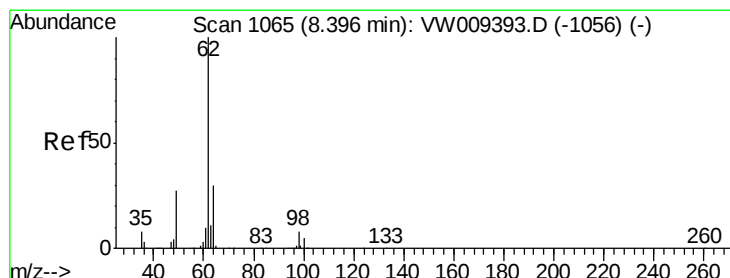
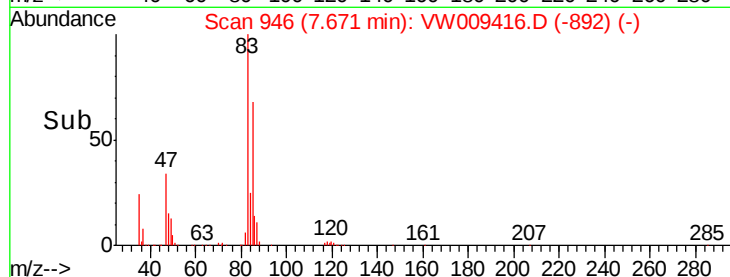
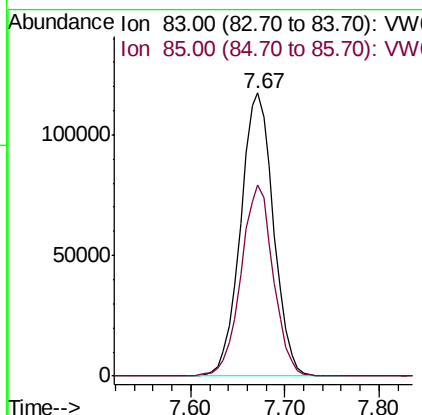
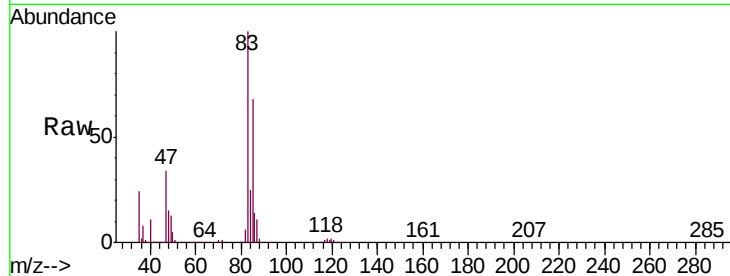




#25
Chloroform
Concen: 28.884 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

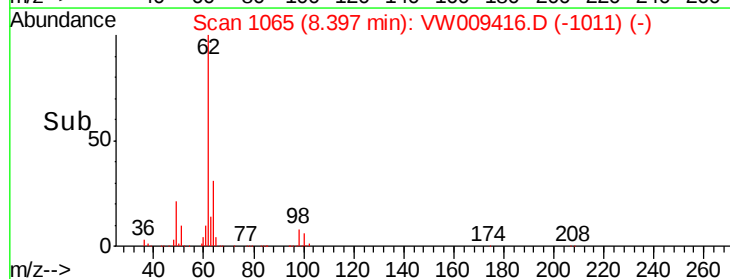
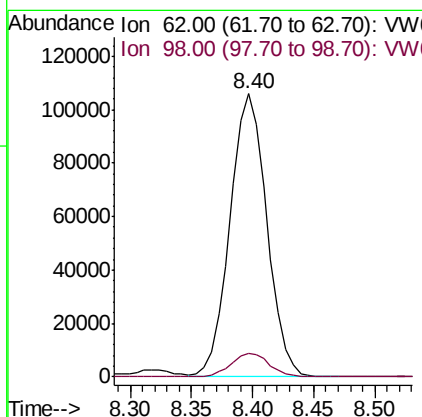
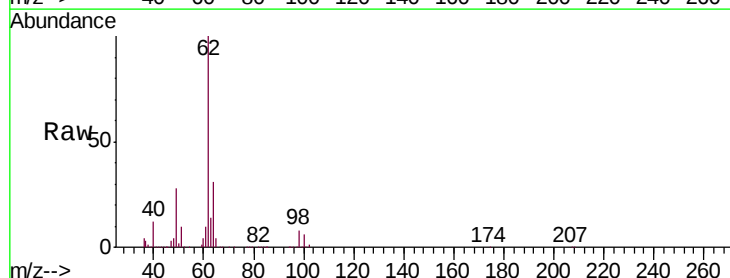
Instrument :
MSVOA_W
ClientSampled :
VSTD02524

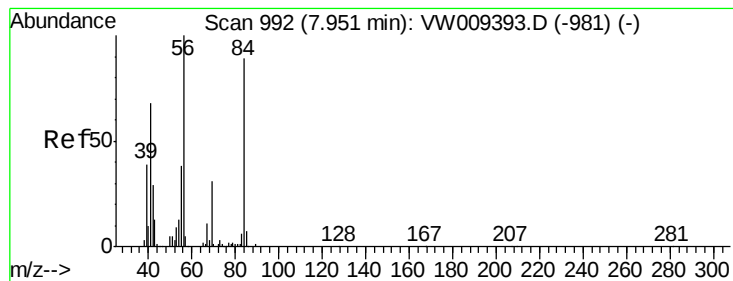
Tgt Ion: 83 Resp: 286468
Ion Ratio Lower Upper
83 100
85 66.2 46.0 85.4



#27
1,2-Dichloroethane
Concen: 29.914 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

Tgt Ion: 62 Resp: 221204
Ion Ratio Lower Upper
62 100
98 8.2 7.3 10.9





#30

Cyclohexane

Concen: 24.124 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

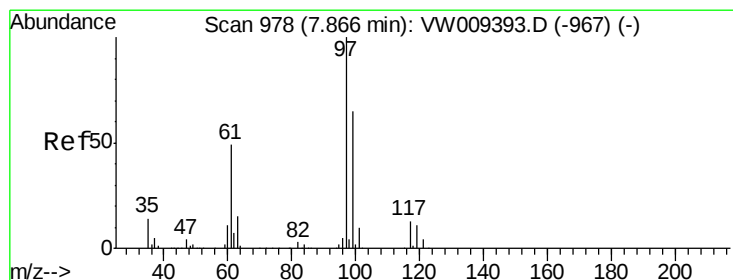
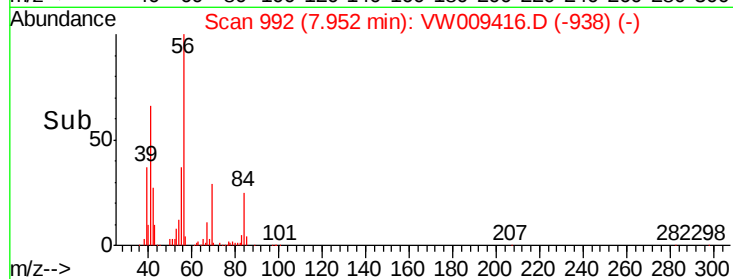
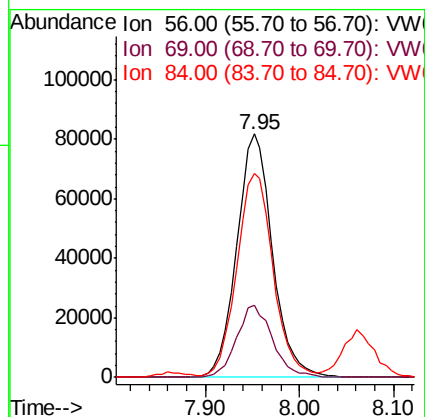
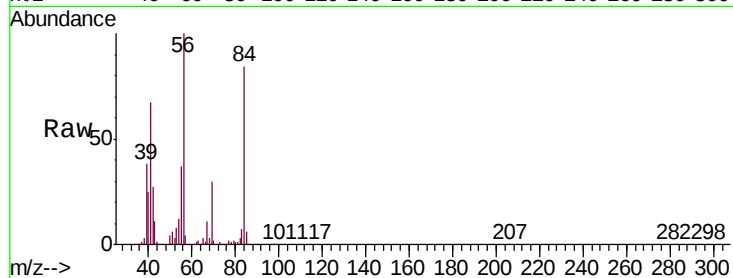
Tgt Ion: 56 Resp: 216508

Ion Ratio Lower Upper

56 100

69 29.8 24.0 36.0

84 85.7 69.2 103.8



#31

1,1,1-Trichloroethane

Concen: 26.961 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

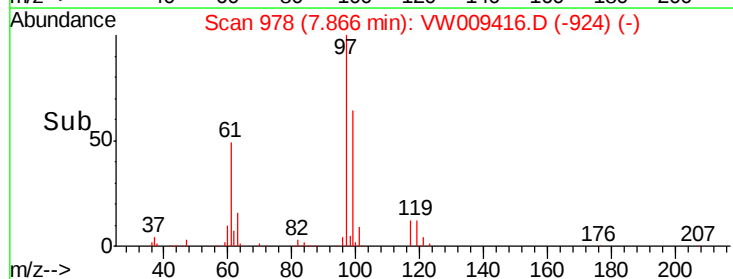
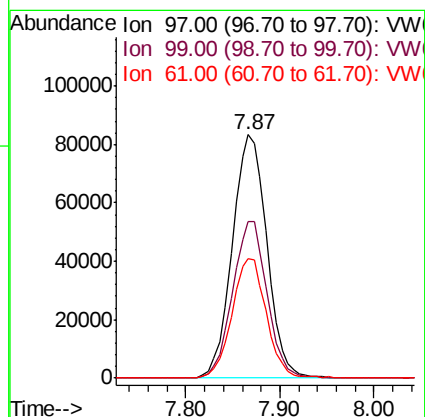
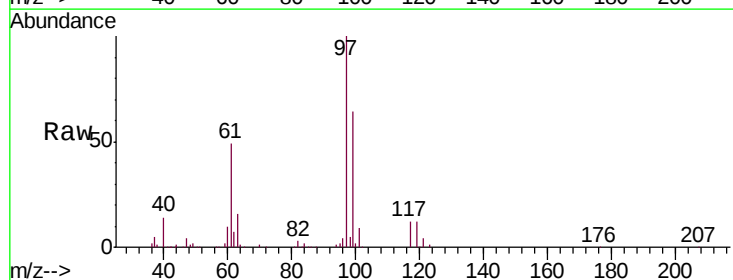
Tgt Ion: 97 Resp: 212795

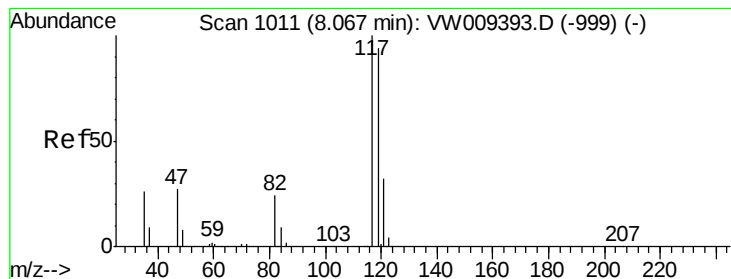
Ion Ratio Lower Upper

97 100

99 64.2 51.2 76.8

61 48.6 38.4 57.6





#32

Carbon tetrachloride

Concen: 26.576 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

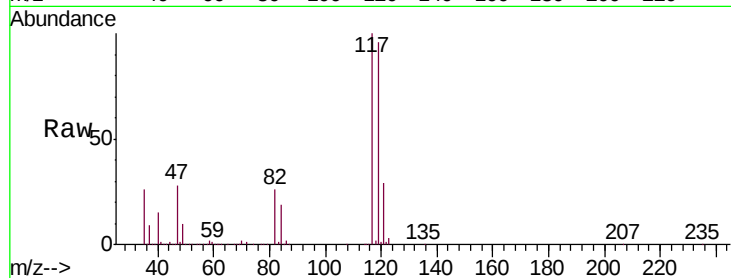
VSTD02524

Tgt Ion:117 Resp: 211628

Ion Ratio Lower Upper

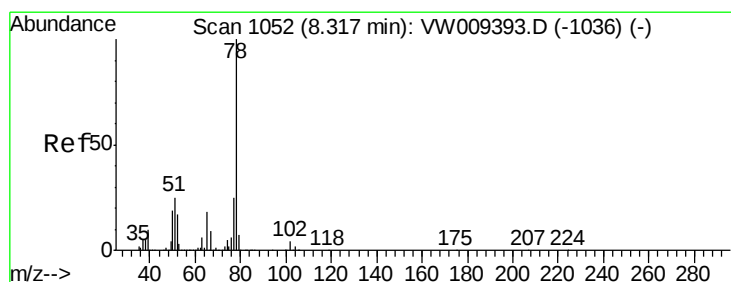
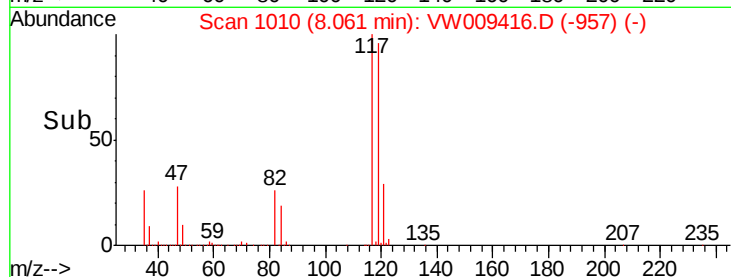
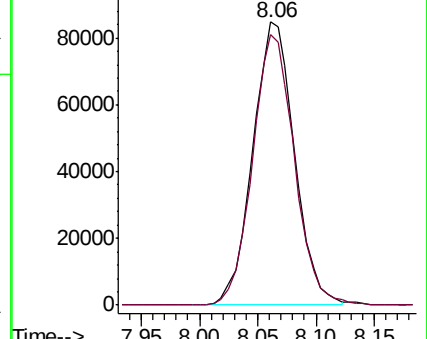
117 100

119 96.0 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: 27.789 ug/L

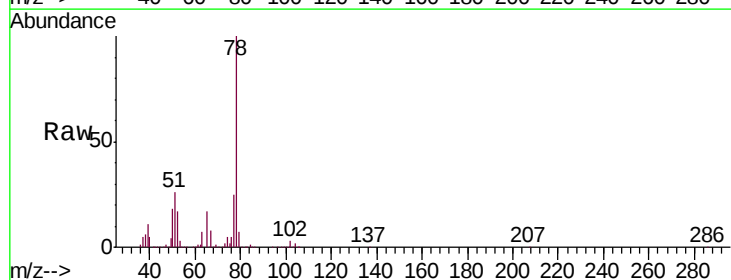
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

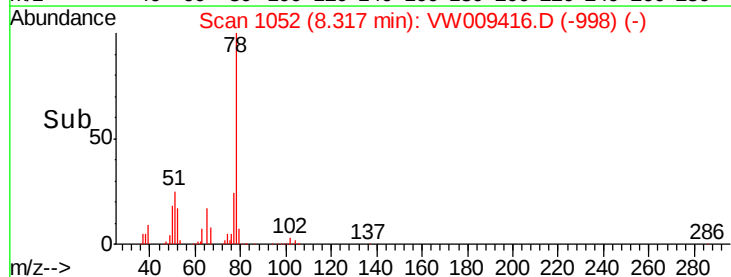
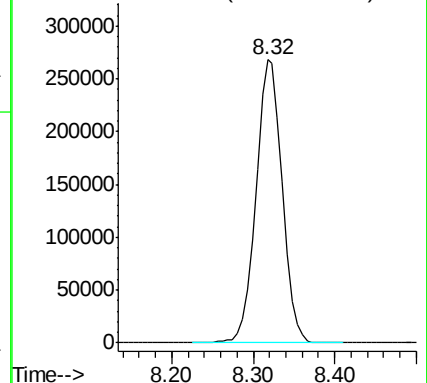
Lab File: VW009416.D

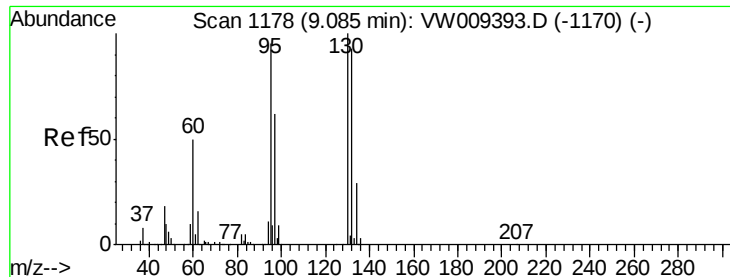
Acq: 24 Mar 2019 03:33

Tgt Ion: 78 Resp: 601068



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 26.303 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

Tgt Ion: 95 Resp: 151600

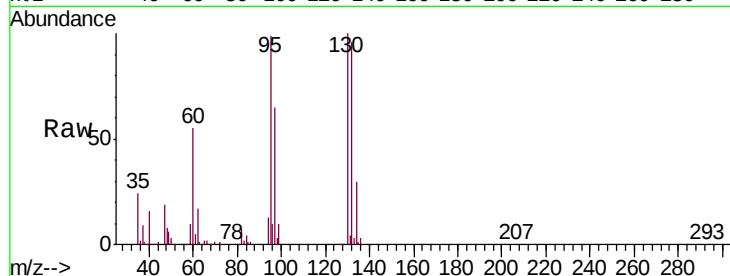
Ion Ratio Lower Upper

95 100

97 65.0 44.7 82.9

132 98.3 69.0 128.2

130 102.8 72.7 134.9



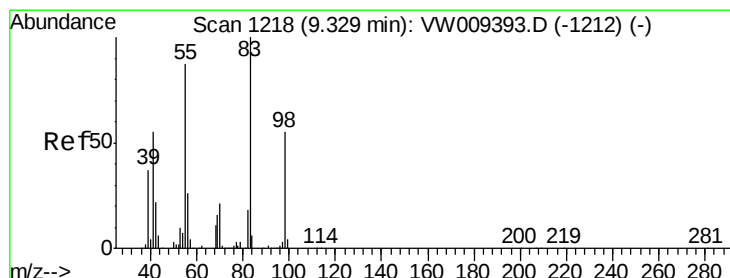
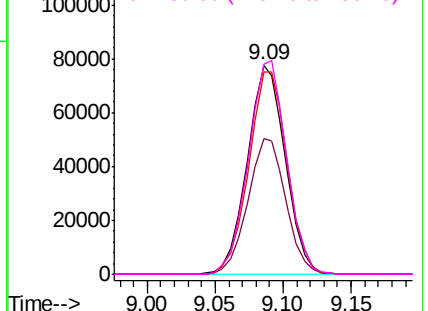
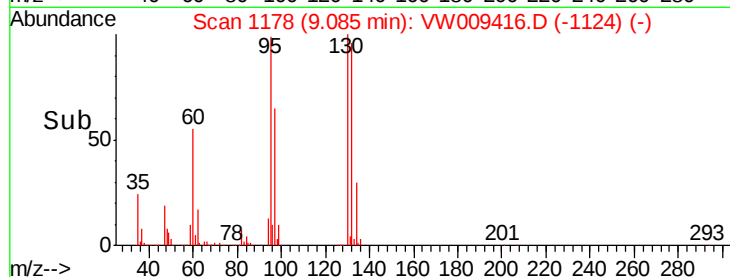
Abundance

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: 24.446 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

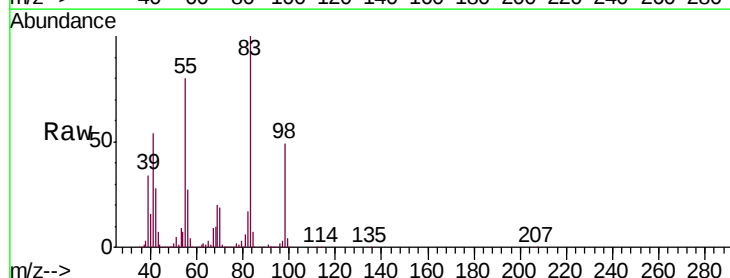
Tgt Ion: 83 Resp: 243764

Ion Ratio Lower Upper

83 100

55 80.1 63.5 95.3

98 50.0 39.8 59.8

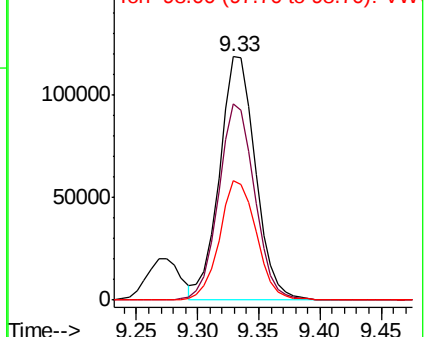
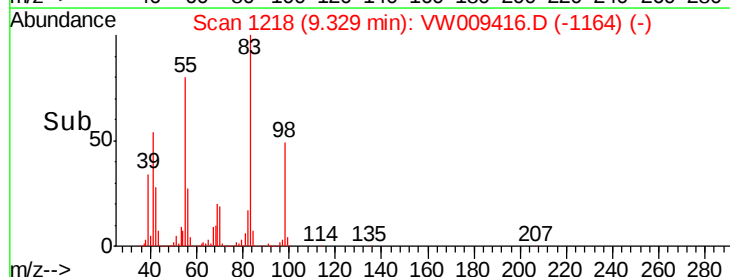


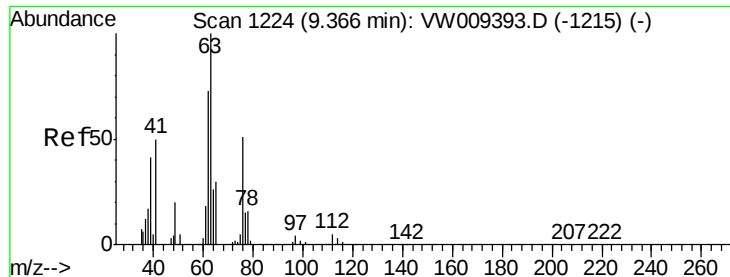
Abundance

Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 27.980 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

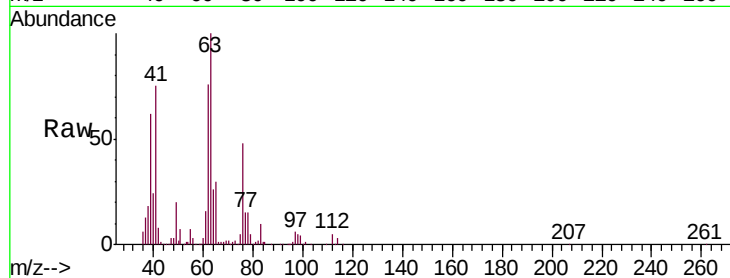
VSTD02524

Tgt Ion: 63 Resp: 155297

Ion Ratio Lower Upper

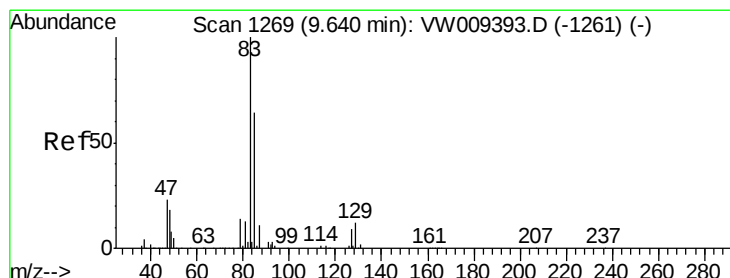
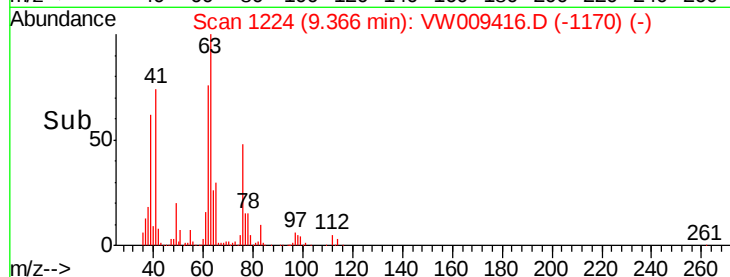
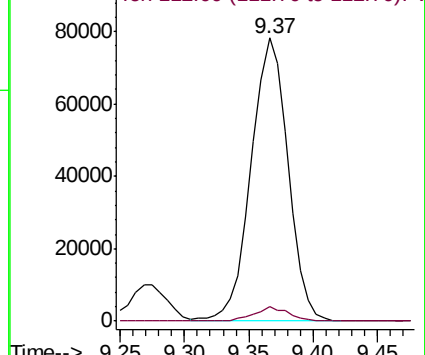
63 100

112 4.7 4.0 6.0



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 28.431 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

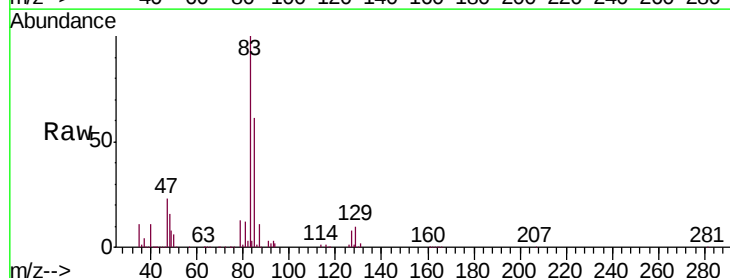
Tgt Ion: 83 Resp: 218650

Ion Ratio Lower Upper

83 100

85 61.2 43.5 80.7

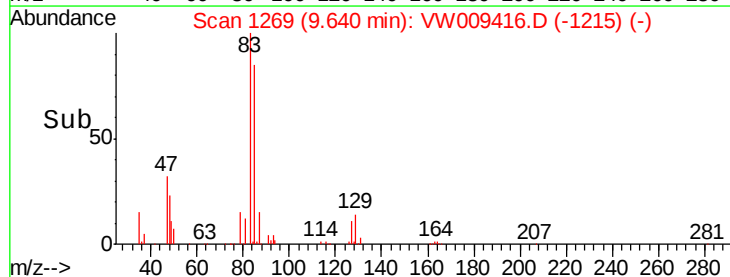
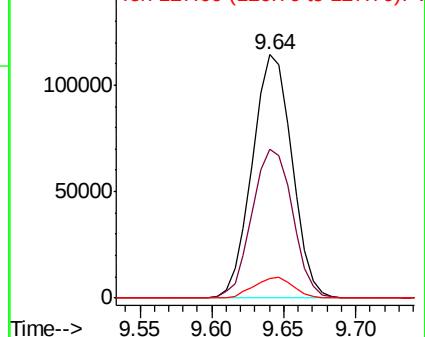
127 8.2 6.2 9.4

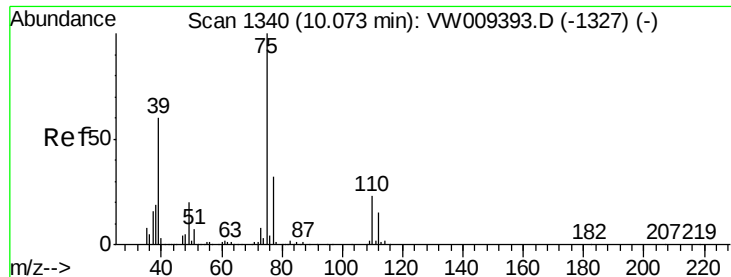


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 26.538 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampled :

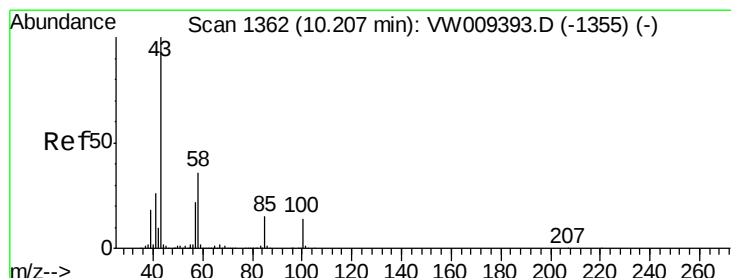
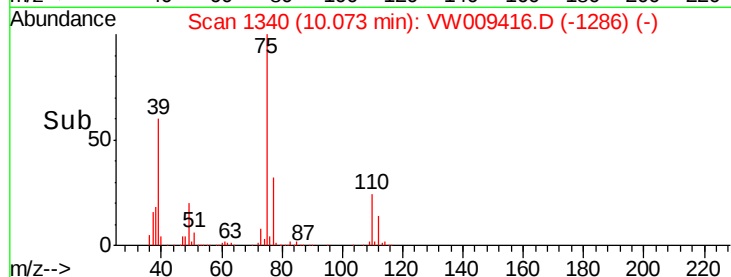
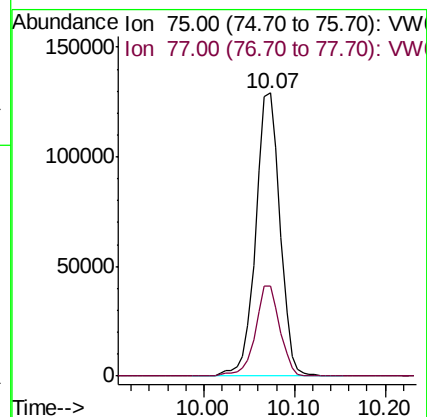
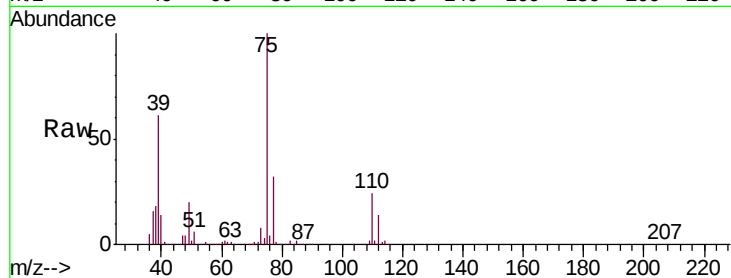
VSTD02524

Tgt Ion: 75 Resp: 239905

Ion Ratio Lower Upper

75 100

77 32.0 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 55.505 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

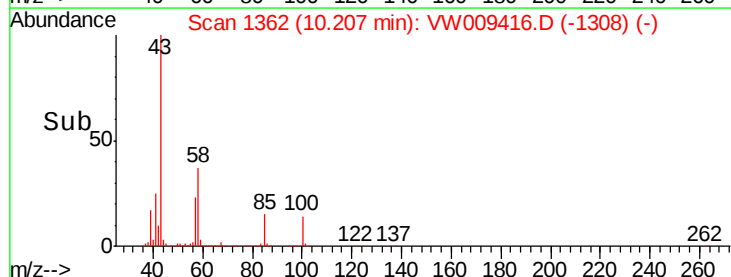
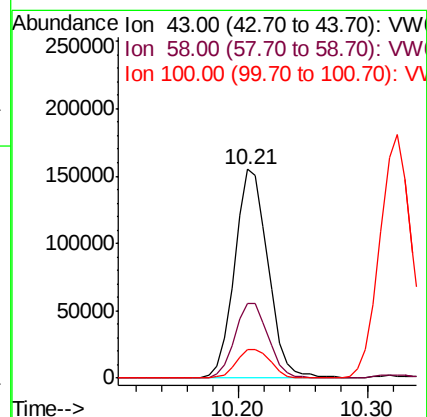
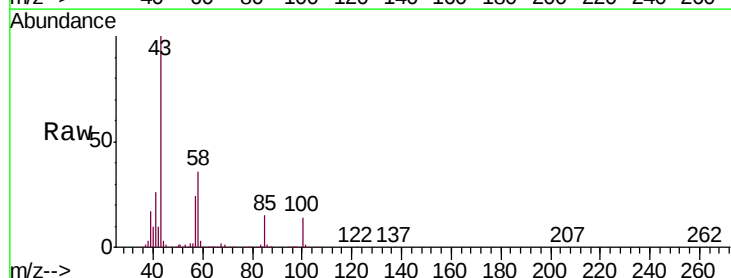
Tgt Ion: 43 Resp: 279162

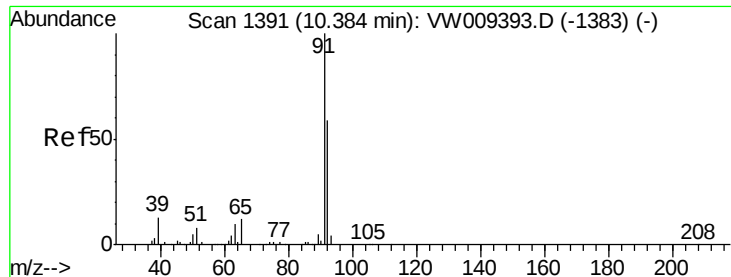
Ion Ratio Lower Upper

43 100

58 36.1 28.2 42.2

100 14.1 11.4 17.2





#44

Toluene

Concen: 27.504 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

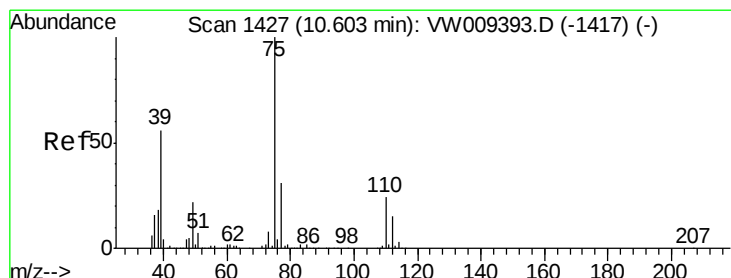
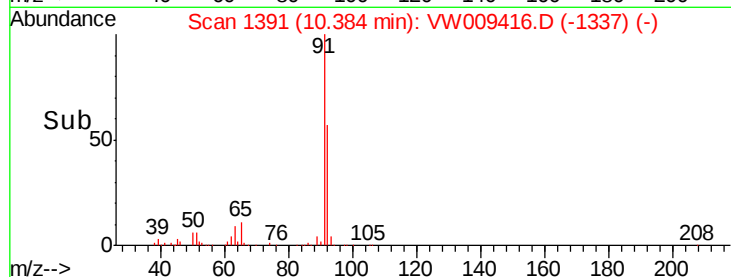
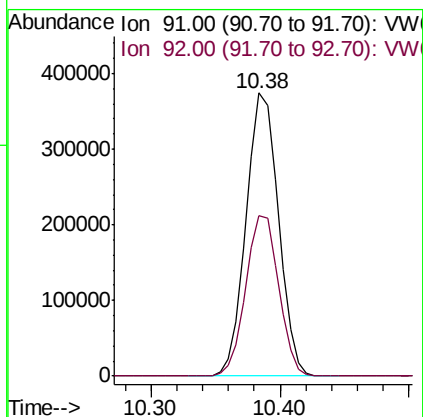
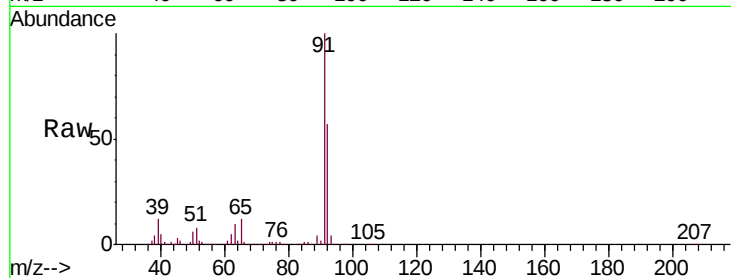
VSTD02524

Tgt Ion: 91 Resp: 650448

Ion Ratio Lower Upper

91 100

92 56.5 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 26.678 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009416.D

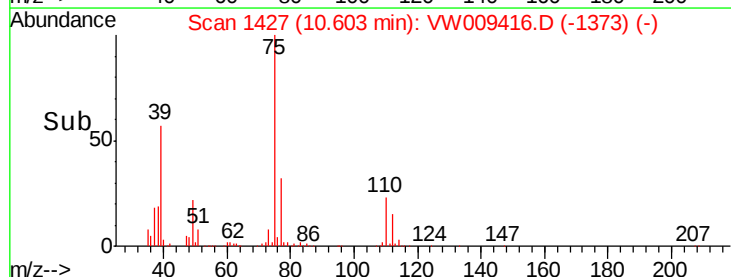
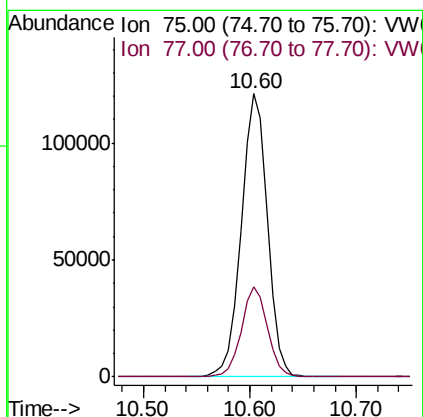
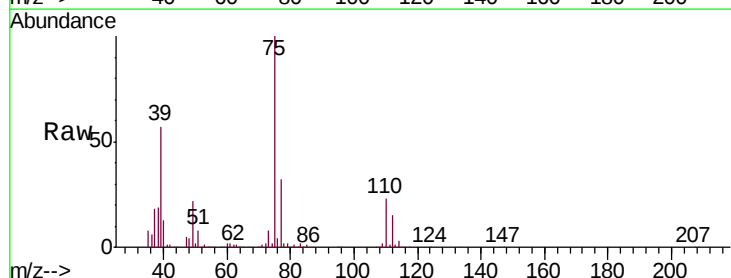
Acq: 24 Mar 2019 03:33

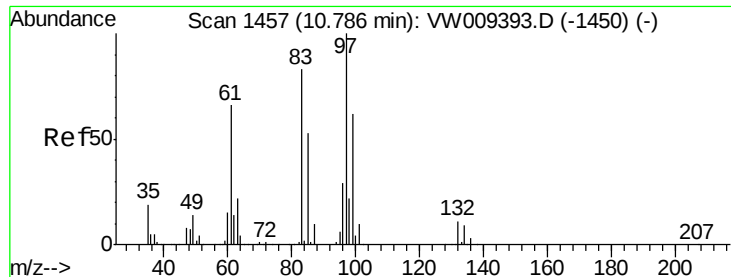
Tgt Ion: 75 Resp: 209796

Ion Ratio Lower Upper

75 100

77 32.0 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 28.607 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampled :

VSTD02524

Tgt Ion: 97 Resp: 126672

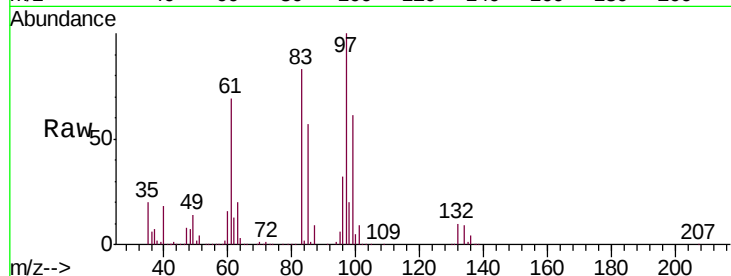
Ion Ratio Lower Upper

97 100

83 83.1 60.7 112.7

85 56.5 40.1 74.5

99 61.3 43.8 81.3

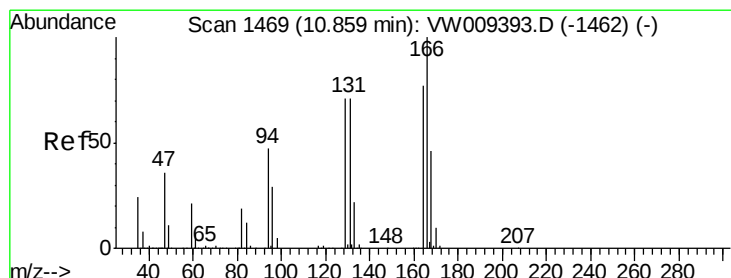
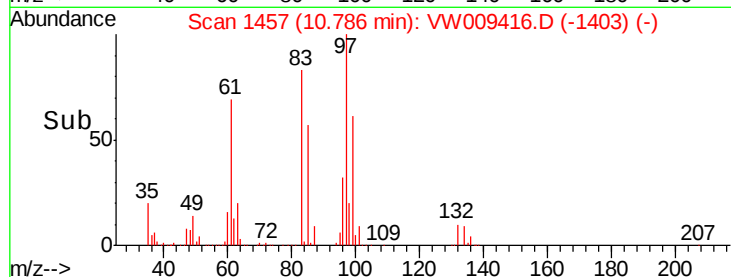
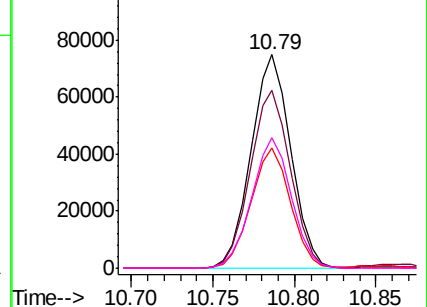


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 24.805 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Tgt Ion: 164 Resp: 120798

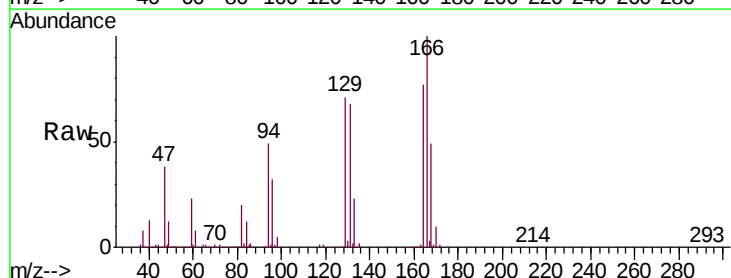
Ion Ratio Lower Upper

164 100

129 92.7 66.5 123.5

131 88.6 62.6 116.3

166 130.5 91.6 170.0

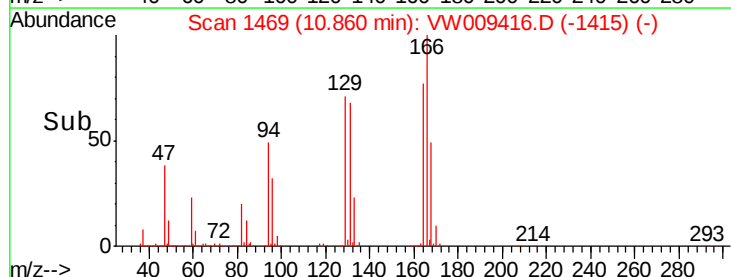
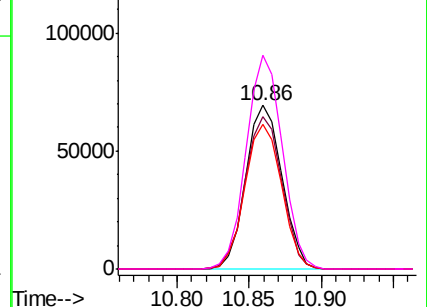


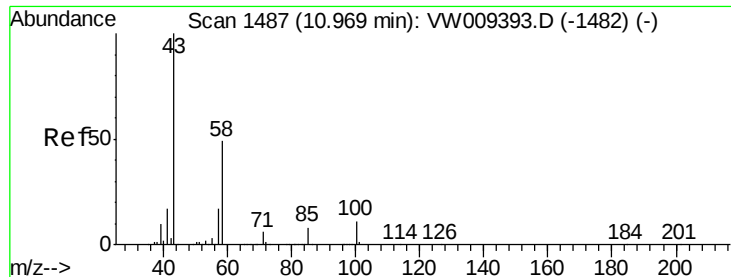
Abundance Ion 164.00 (163.70 to 164.70): V

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: 57.765 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

Tgt Ion: 43 Resp: 204623

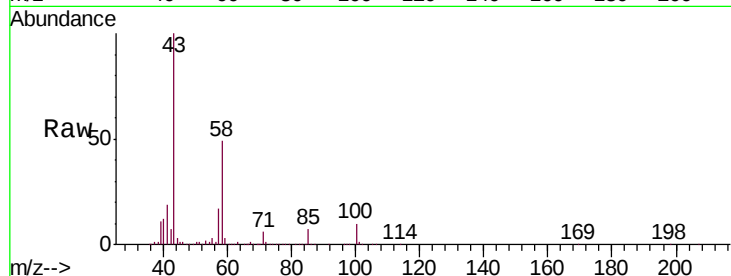
Ion Ratio Lower Upper

43 100

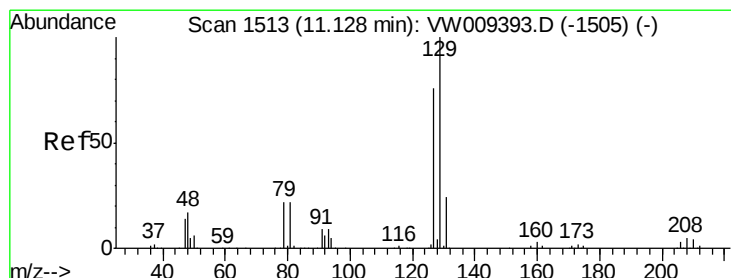
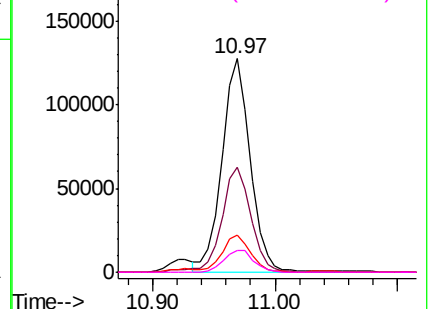
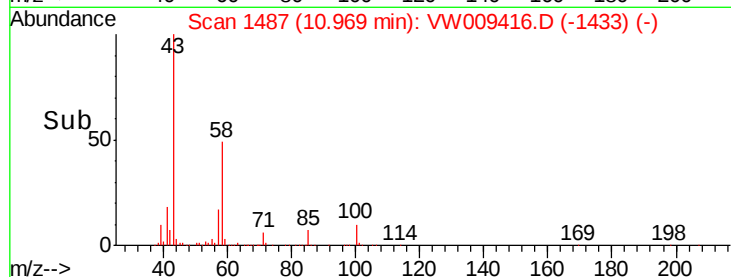
58 49.3 39.2 58.8

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: 28.421 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW009416.D

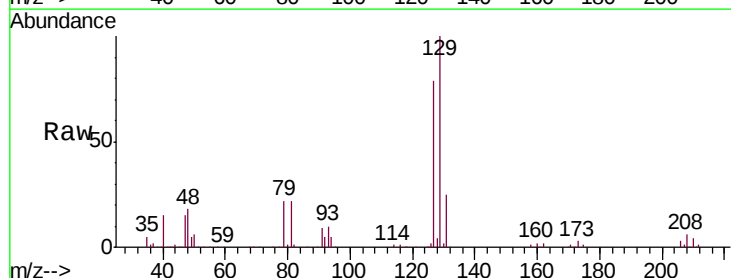
Acq: 24 Mar 2019 03:33

Tgt Ion: 129 Resp: 155353

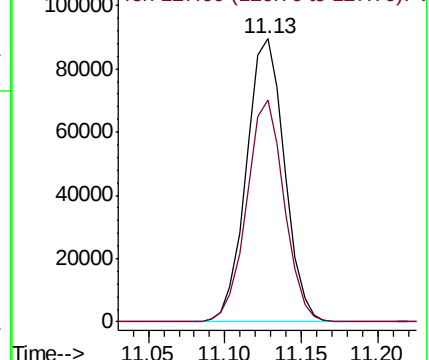
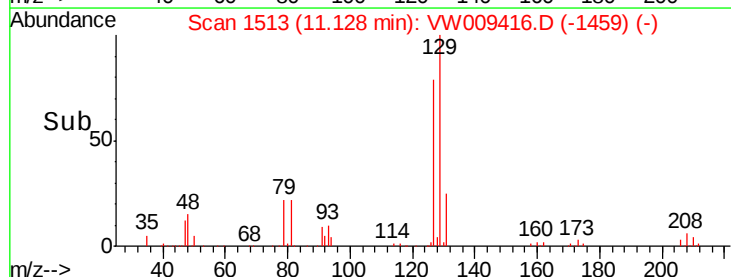
Ion Ratio Lower Upper

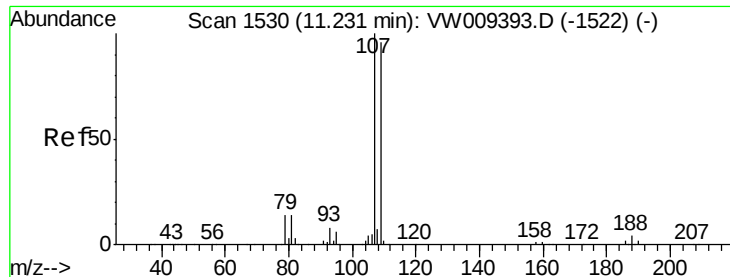
129 100

127 78.5 56.8 105.6



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

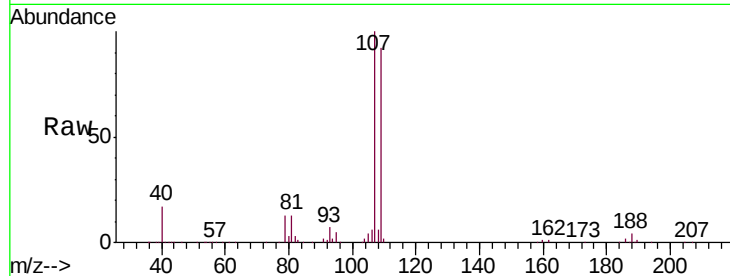




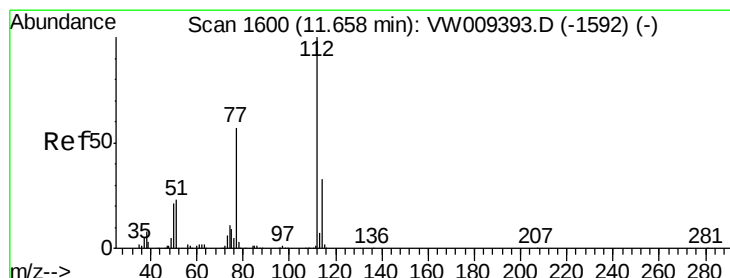
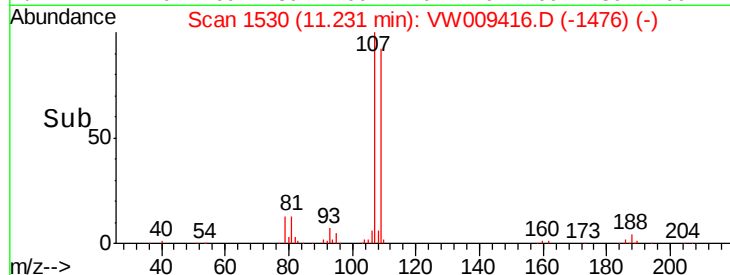
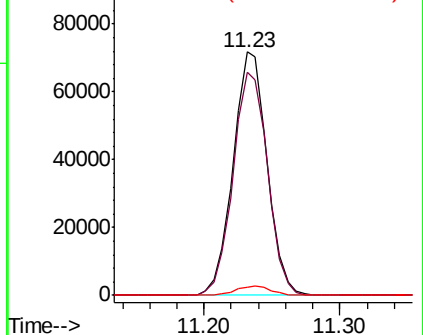
#51
1,2-Dibromoethane
Concen: 27.756 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

Tgt Ion	Ratio	Lower	Upper
107	100		
109	91.6	68.0	126.4
188	3.5	3.5	5.3

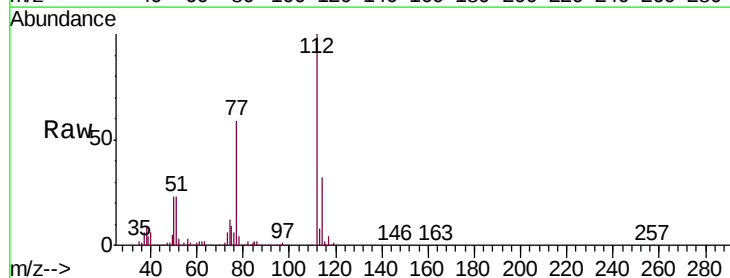


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

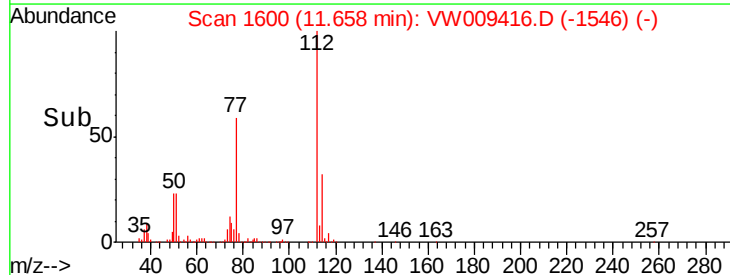
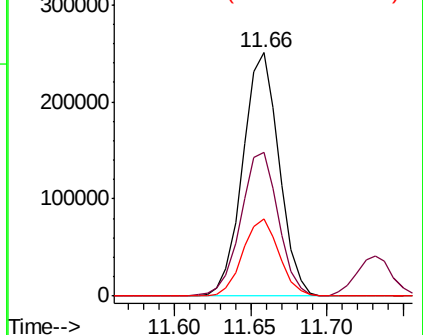


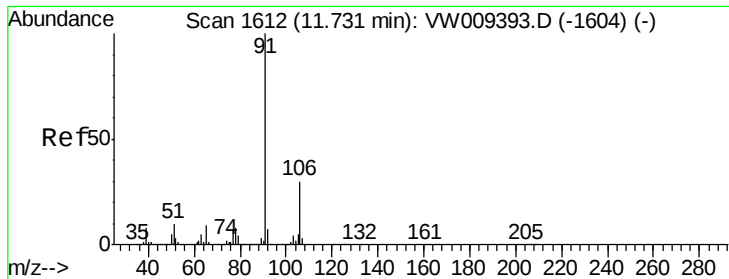
#52
Chlorobenzene
Concen: 27.233 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

Tgt Ion	Ratio	Lower	Upper
112	100		
77	59.0	45.7	68.5
114	31.9	22.8	42.4



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V

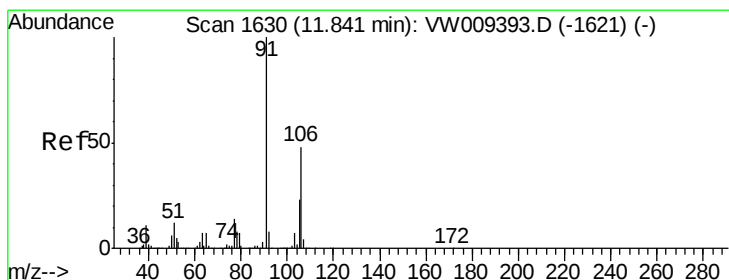
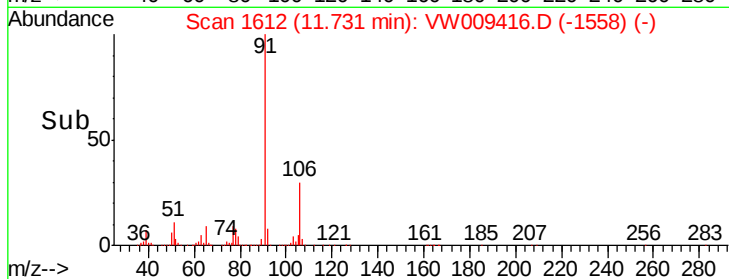
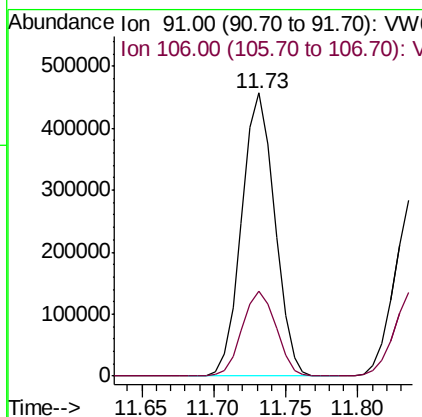
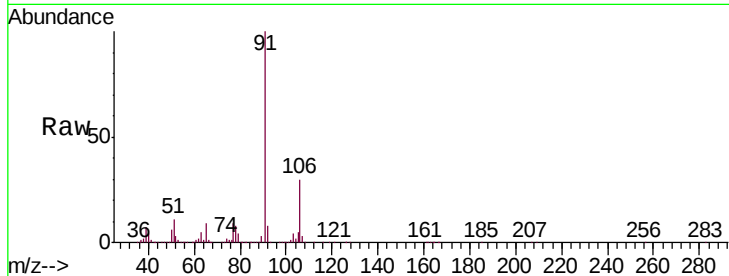




#53
Ethylbenzene
Concen: 27.442 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

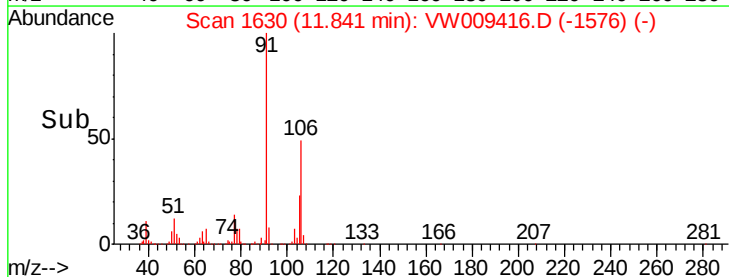
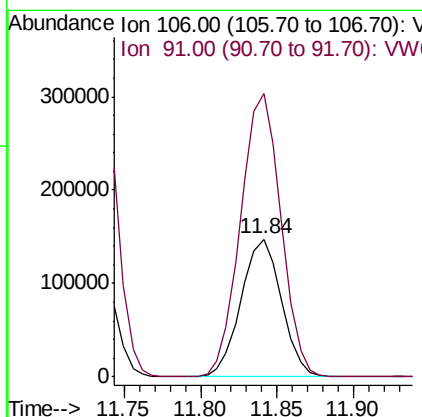
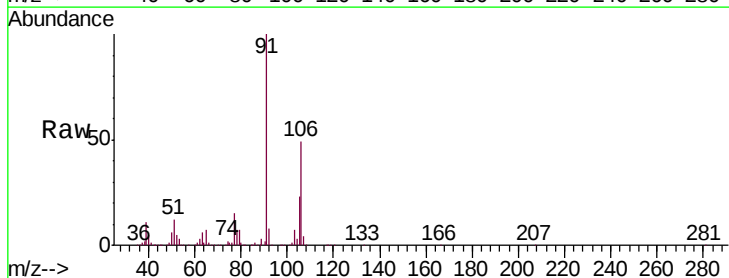
Instrument :
MSVOA_W
ClientSampled :
VSTD02524

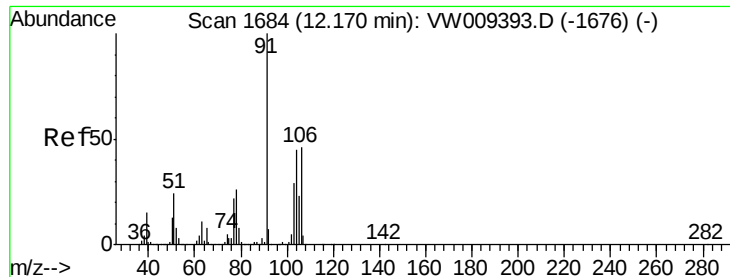
Tgt Ion: 91 Resp: 729618
Ion Ratio Lower Upper
91 100
106 30.2 21.0 39.0



#54
m,p-Xylene
Concen: 26.934 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

Tgt Ion: 106 Resp: 272064
Ion Ratio Lower Upper
106 100
91 205.1 138.4 257.0

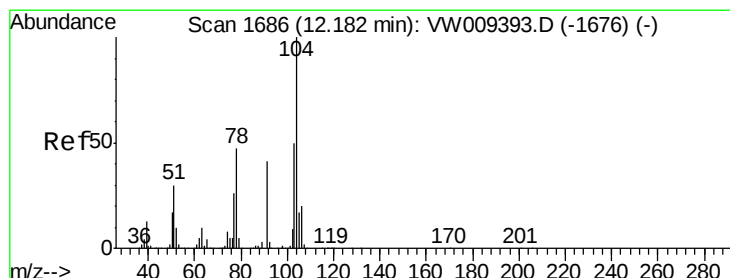
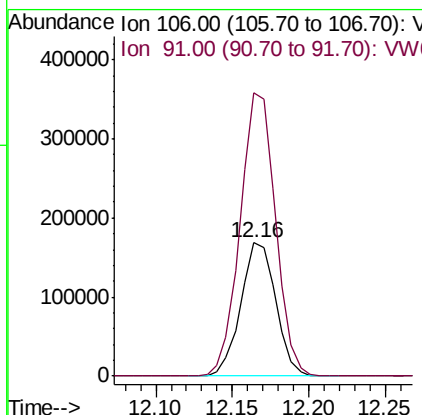
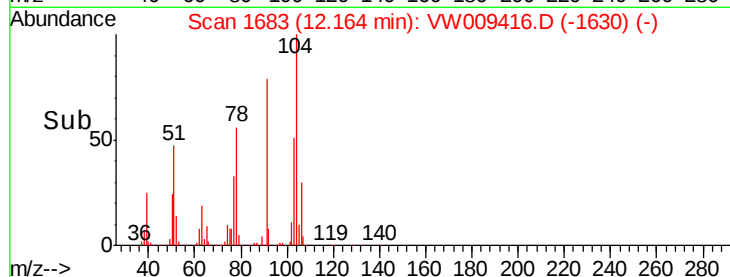
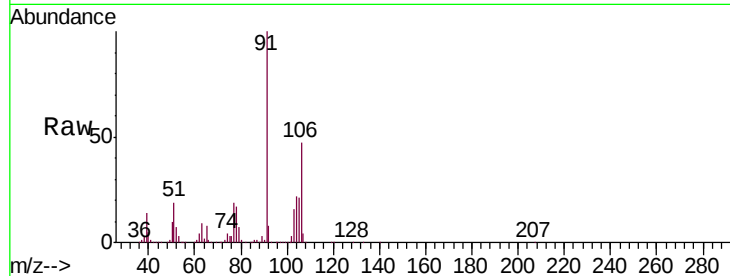




#55
o-xylene
Concen: 27.322 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

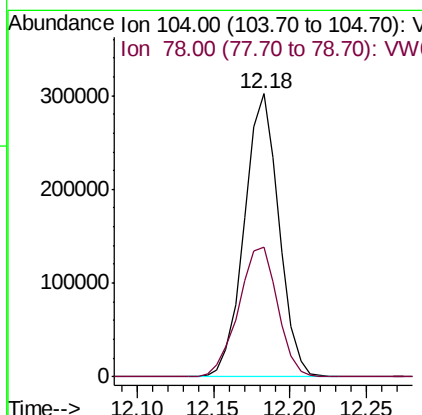
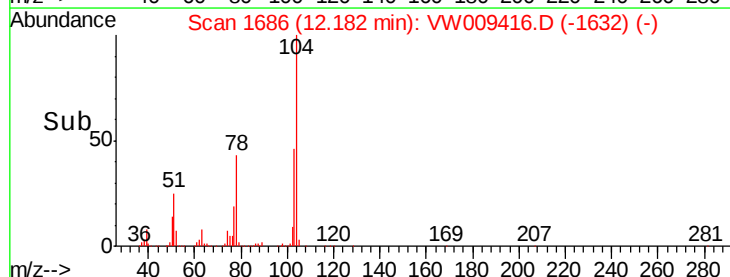
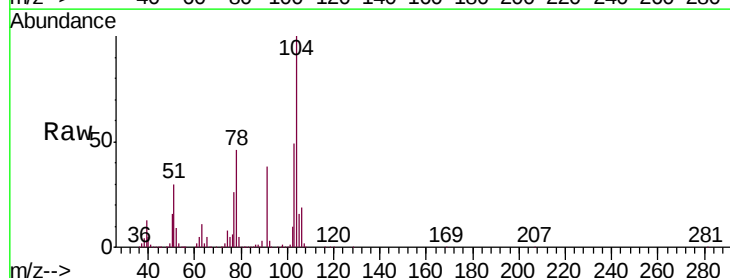
Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

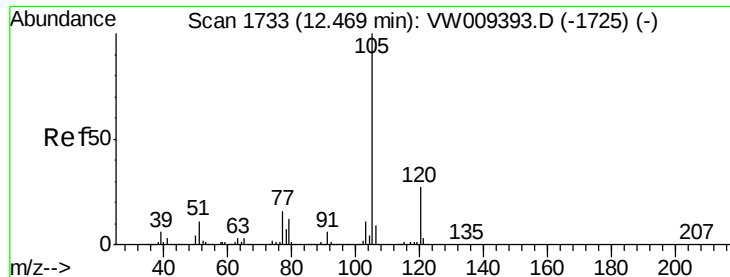
Tgt Ion:106 Resp: 269247
Ion Ratio Lower Upper
106 100
91 212.3 153.2 284.4



#56
Styrene
Concen: 28.291 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW009416.D
Acq: 24 Mar 2019 03:33

Tgt Ion:104 Resp: 475683
Ion Ratio Lower Upper
104 100
78 45.9 30.9 57.3





#57

Isopropylbenzene

Concen: 27.351 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

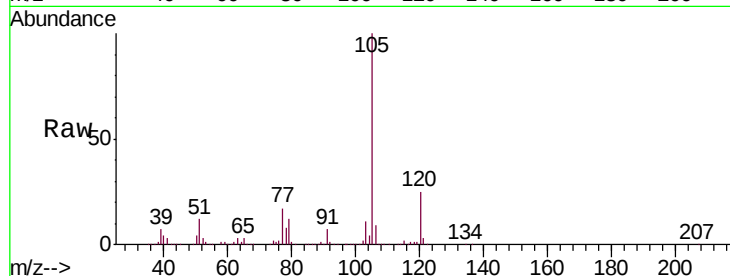
Tgt Ion: 105 Resp: 722007

Ion Ratio Lower Upper

105 100

120 26.3 21.3 31.9

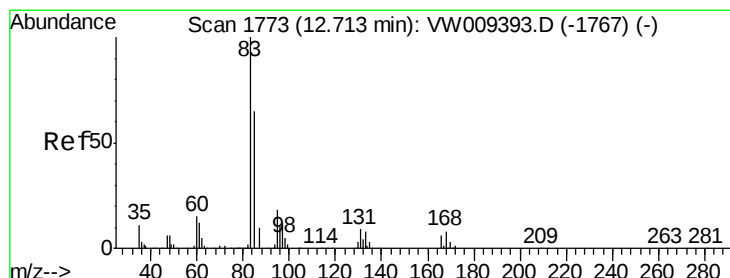
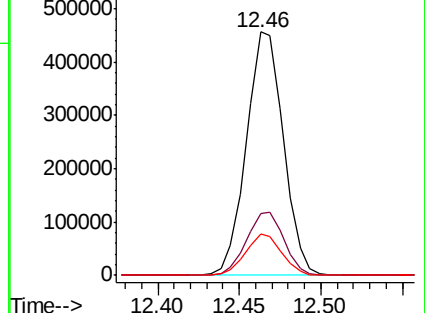
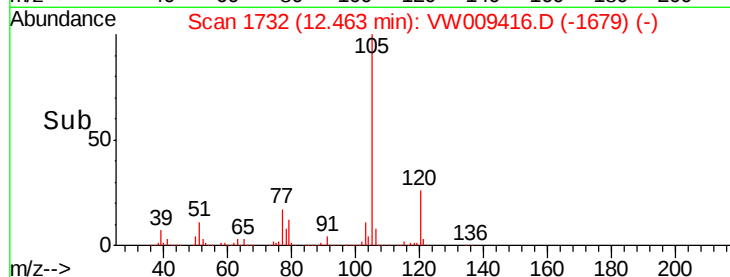
77 16.8 13.1 19.7



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 28.949 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

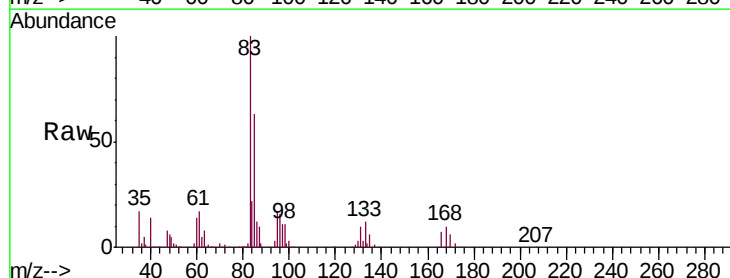
Tgt Ion: 83 Resp: 172930

Ion Ratio Lower Upper

83 100

85 63.0 45.6 84.8

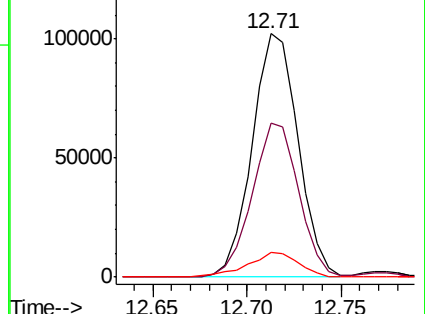
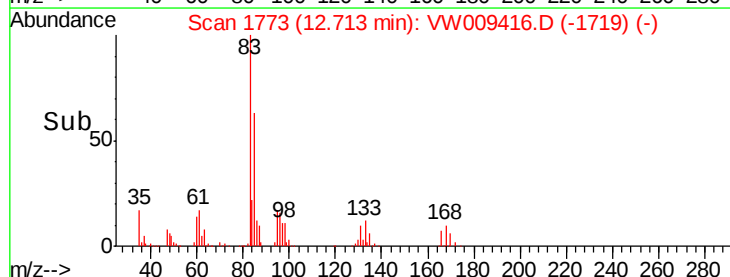
131 10.0 9.2 13.8

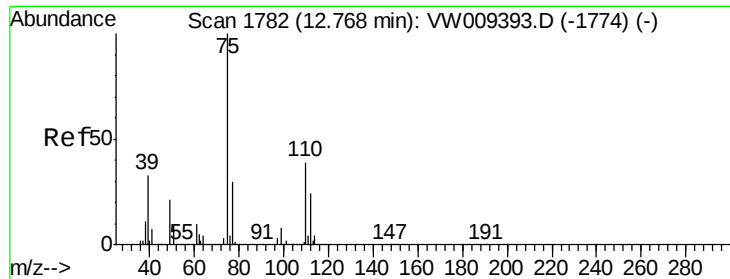


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 28.804 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

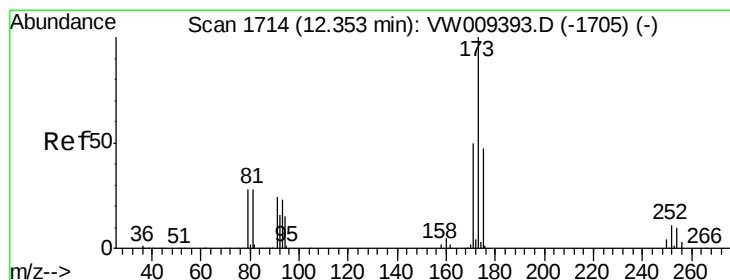
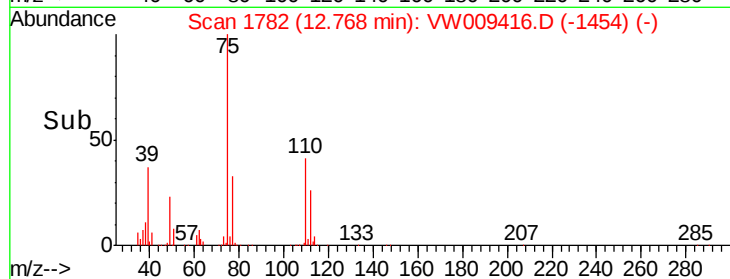
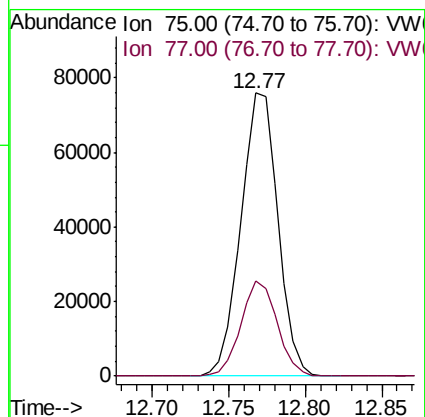
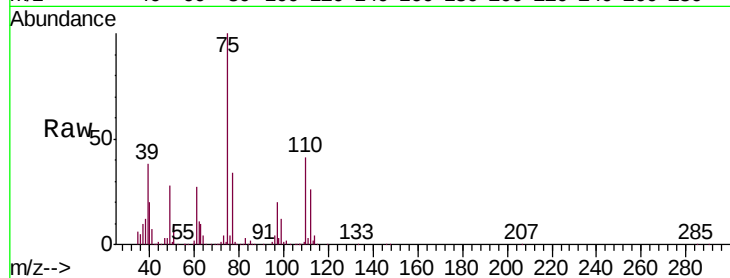
VSTD02524

Tgt Ion: 75 Resp: 127696

Ion Ratio Lower Upper

75 100

77 33.0 26.2 39.2



#62

Bromoform

Concen: 28.512 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

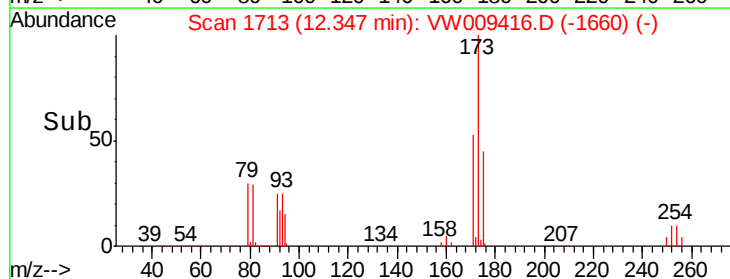
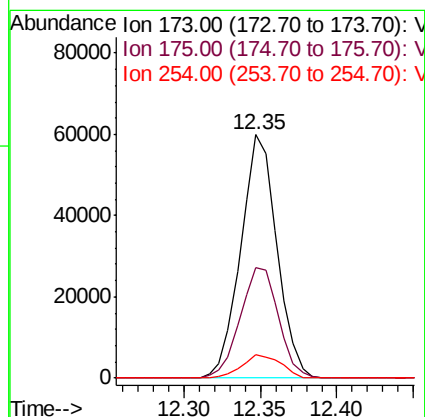
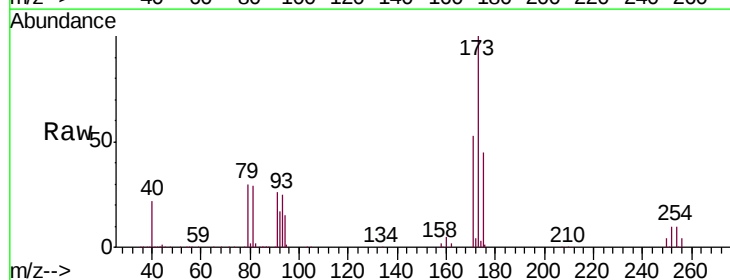
Tgt Ion: 173 Resp: 98326

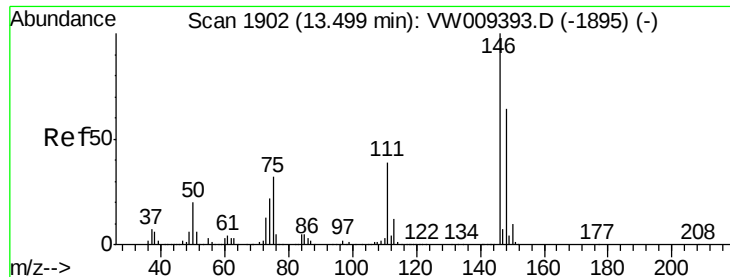
Ion Ratio Lower Upper

173 100

175 48.0 39.7 59.5

254 10.6 8.5 12.7

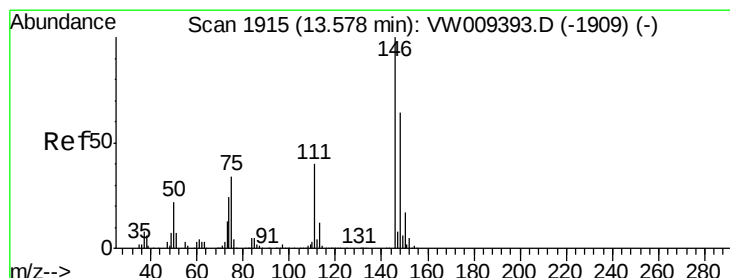
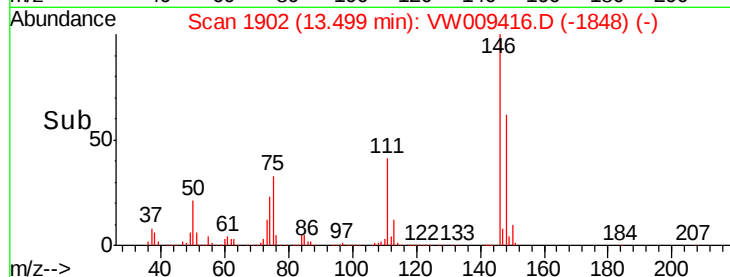
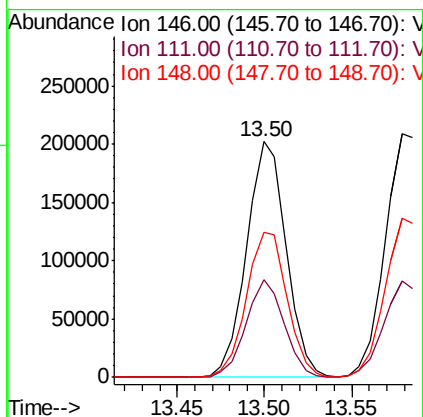
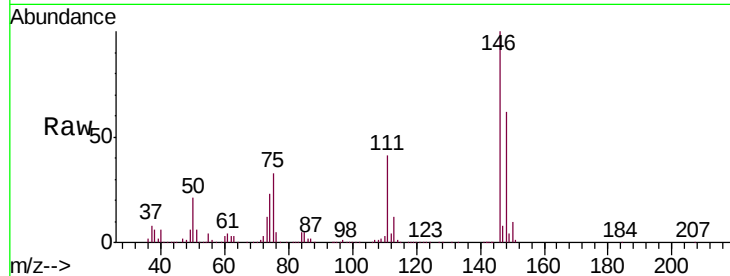




#63
 1,3-Dichlorobenzene
 Concen: 26.406 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW009416.D
 Acq: 24 Mar 2019 03:33

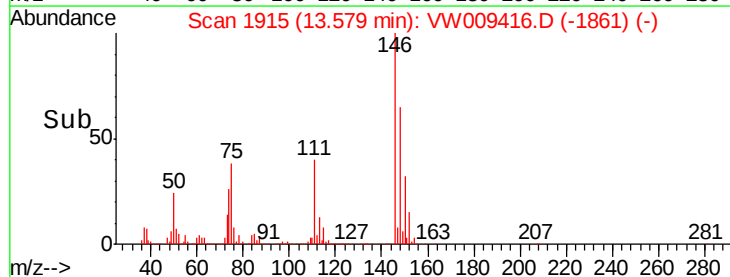
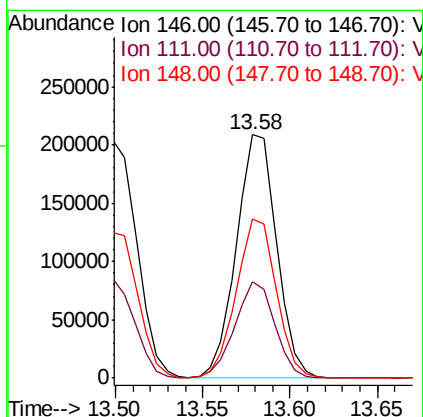
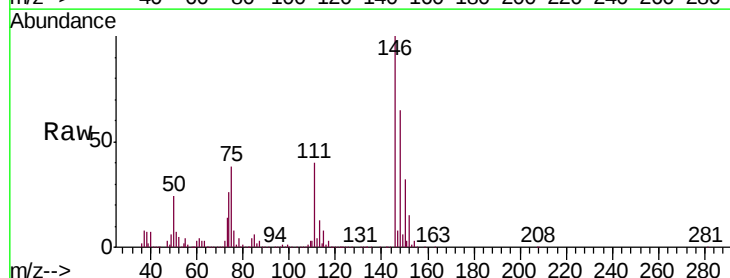
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02524

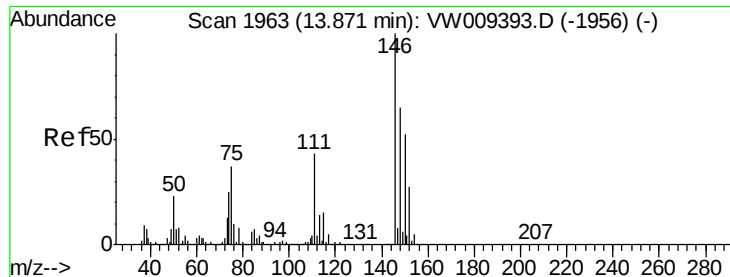
Tgt Ion:146 Resp: 321211
 Ion Ratio Lower Upper
 146 100
 111 41.2 26.9 49.9
 148 61.8 45.1 83.7



#64
 1,4-Dichlorobenzene
 Concen: 26.752 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW009416.D
 Acq: 24 Mar 2019 03:33

Tgt Ion:146 Resp: 336444
 Ion Ratio Lower Upper
 146 100
 111 39.5 27.8 51.6
 148 65.5 46.3 86.1

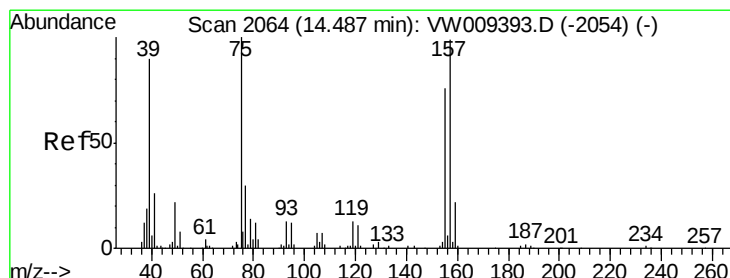
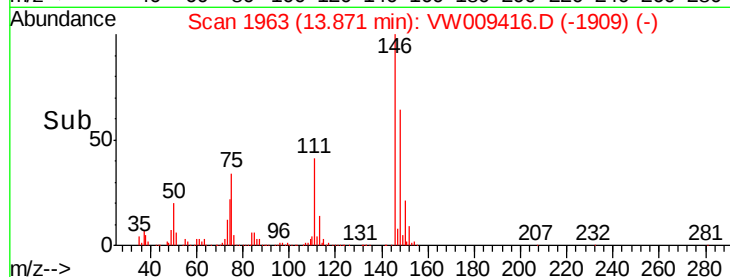
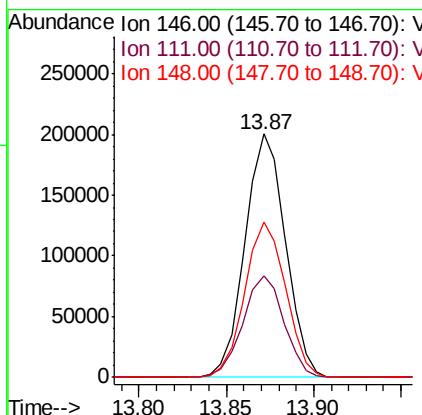
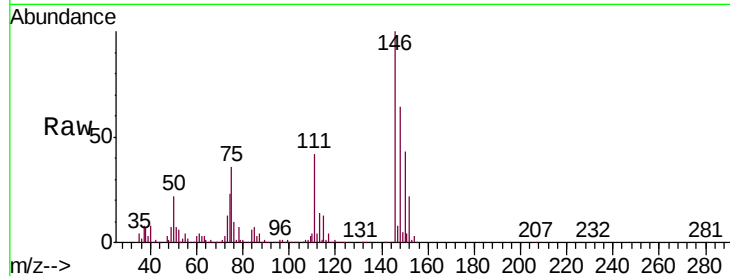




#65
 1,2-Dichlorobenzene
 Concen: 27.836 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW009416.D
 Acq: 24 Mar 2019 03:33

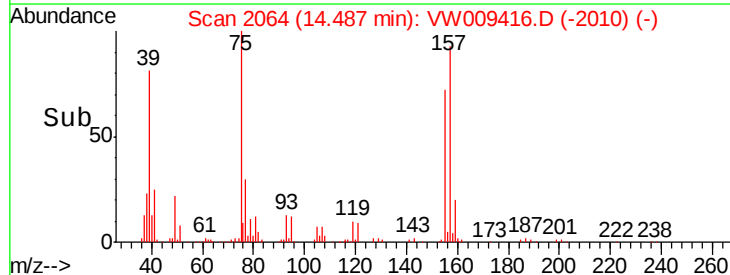
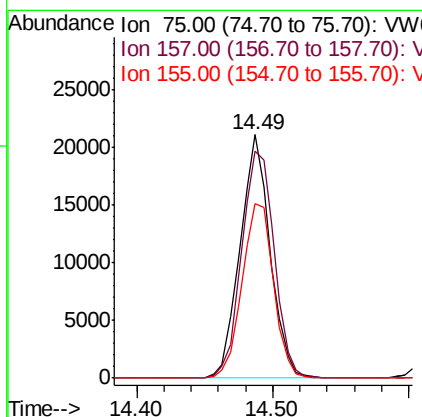
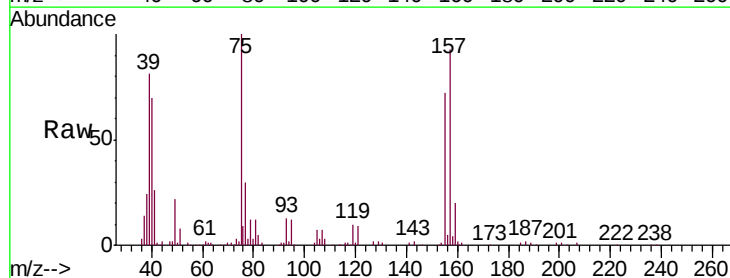
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02524

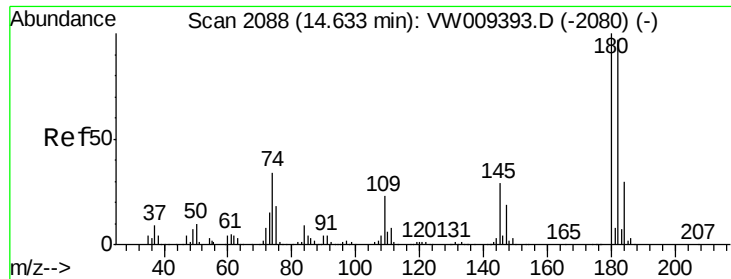
Tgt Ion:146 Resp: 322916
 Ion Ratio Lower Upper
 146 100
 111 41.6 33.5 50.3
 148 63.9 50.2 75.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 28.599 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW009416.D
 Acq: 24 Mar 2019 03:33

Tgt Ion: 75 Resp: 32516
 Ion Ratio Lower Upper
 75 100
 157 93.3 89.0 133.4
 155 71.7 64.2 96.2

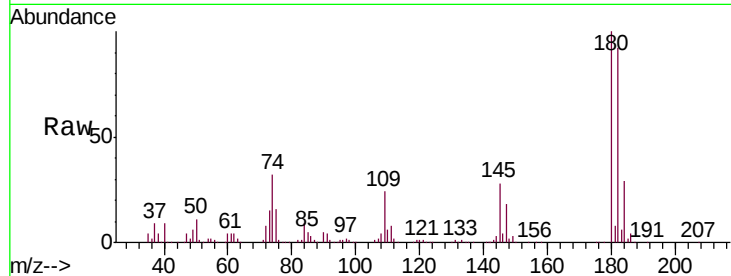




#67
 1,3,5-Trichlorobenzene
 Concen: 25.240 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW009416.D
 Acq: 24 Mar 2019 03:33

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02524

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.1	114.1
184	29.9	23.8	35.6
145	29.1	23.4	35.2



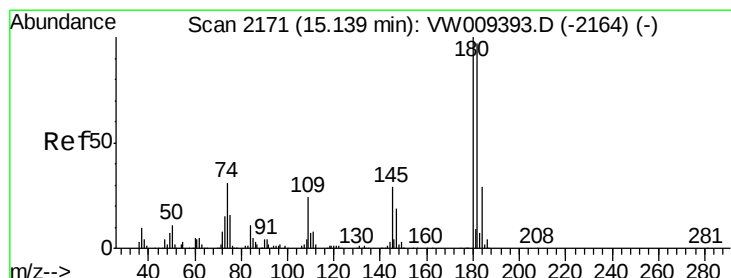
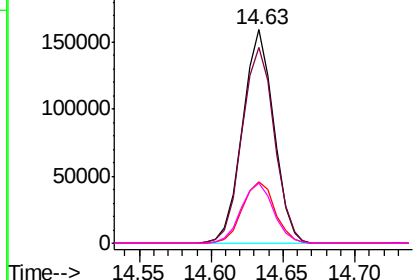
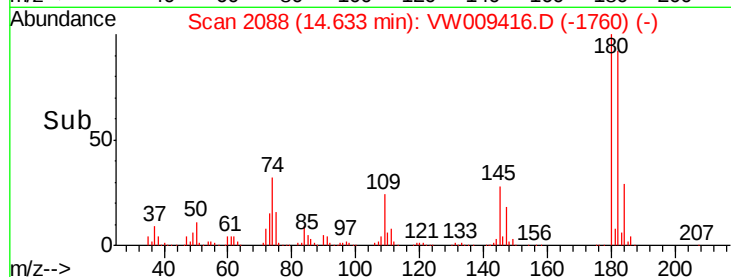
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

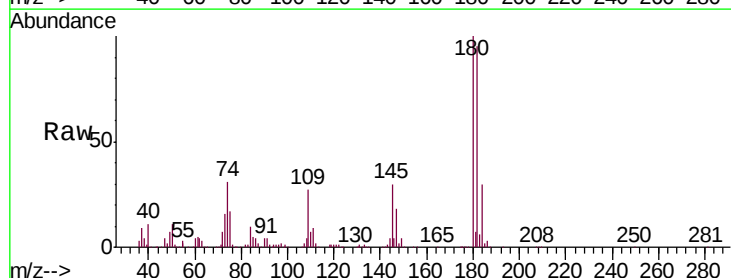
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.238 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW009416.D
 Acq: 24 Mar 2019 03:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.5	113.3
145	29.7	24.1	36.1

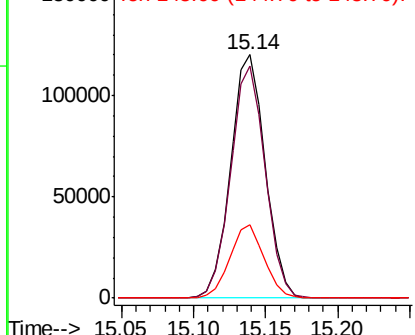
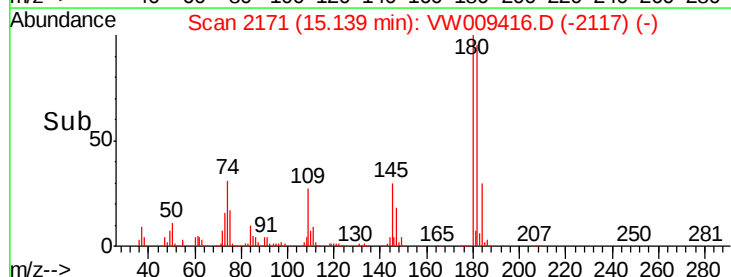


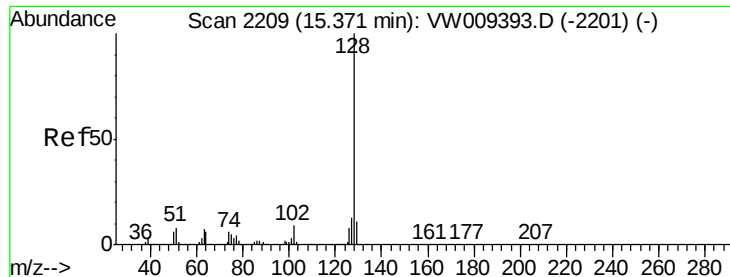
Abundance

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





#69

Naphthalene

Concen: 28.747 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

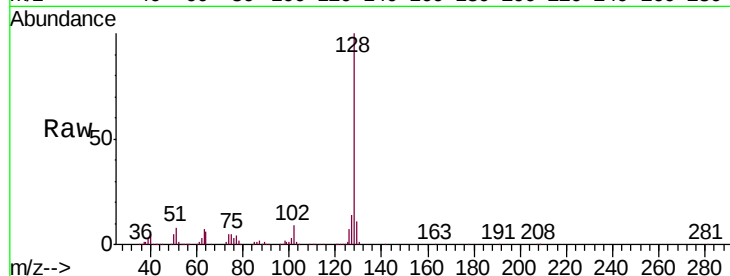
Tgt Ion:128 Resp: 475002

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

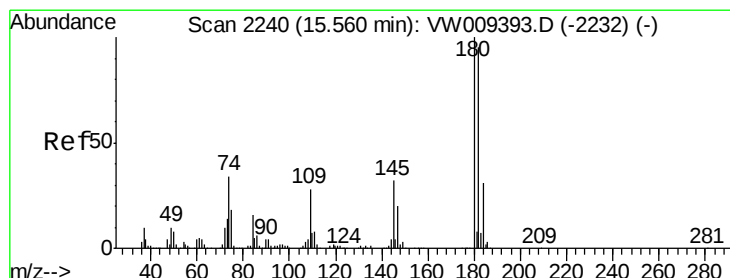
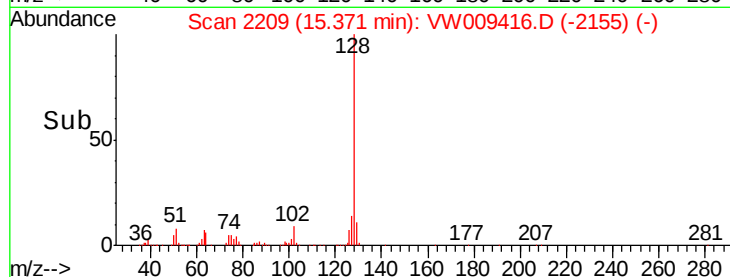
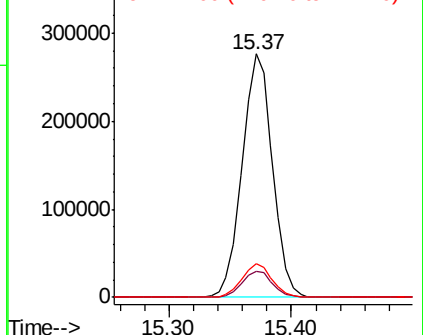
127 13.5 11.1 16.7



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: 27.081 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW009416.D

Acq: 24 Mar 2019 03:33

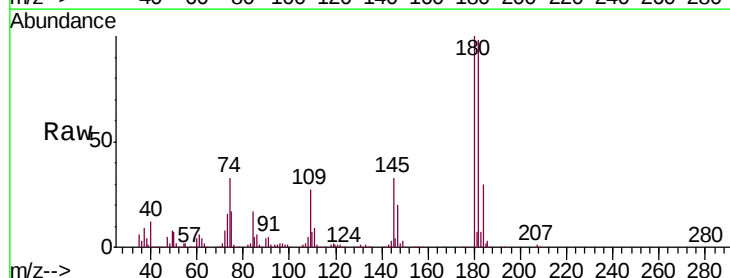
Tgt Ion:180 Resp: 202155

Ion Ratio Lower Upper

180 100

182 95.5 77.2 115.8

145 32.0 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

