

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW050719\
 Data File : VW010316.D
 Acq On : 08 May 2019 00:40
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

Quant Time: May 08 04:40:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM050719S.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 08 02:05:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	554895	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	549732	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	269372	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	146704	22.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.84%
7) Chloroethane-d5	2.89	69	119998	22.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.80%
10) 1,1-Dichloroethene-d2	4.02	63	367924	22.86	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	91.44%
20) 2-Butanone-d5	7.08	46	171045	57.14	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.28%
24) Chloroform-d	7.65	84	398115	26.94	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.76%
26) 1,2-Dichloroethane-d4	8.30	65	252739	28.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	115.56%
29) Benzene-d6	8.27	84	749608	25.10	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.40%
33) 1,2-Dichloropropane-d6	9.27	67	243005	26.62	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	106.48%
37) Toluene-d8	10.32	98	678422	25.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.92%
38) trans-1,3-Dichloropropene-	10.58	79	108576	26.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.08%
39) 2-Hexanone-d5	10.93	63	145470	62.36	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	124.72%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	254278	29.29	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	117.16%
61) 1,2-Dichlorobenzene-d4	13.85	152	242859	26.42	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.68%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	157548	21.241 ug/L	95
3) Chloromethane	2.22	50	165142	23.102 ug/L	98
5) Vinyl chloride	2.37	62	181181	21.646 ug/L	97
6) Bromomethane	2.77	94	106285	21.007 ug/L	99
8) Chloroethane	2.92	64	103493	20.538 ug/L	95
9) Trichlorofluoromethane	3.24	101	76611	14.180 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.05	101	170271	22.897 ug/L	99
12) 1,1-Dichloroethene	4.03	96	176925	23.487 ug/L	96
13) Acetone	4.12	43	123760	48.318 ug/L	99
14) Carbon disulfide	4.38	76	506968	21.991 ug/L	95
15) Methyl Acetate	4.67	43	137016	25.074 ug/L	99
16) Methylene chloride	4.92	84	202837	27.002 ug/L	99
17) Methyl tert-butyl Ether	5.43	73	259941	26.327 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	176560	22.721 ug/L	98
19) 1,1-Dichloroethane	6.21	63	358170	24.046 ug/L	100
21) 2-Butanone	7.17	43	203136	55.441 ug/L	99
22) cis-1,2-Dichloroethene	7.16	96	203105	25.311 ug/L	97

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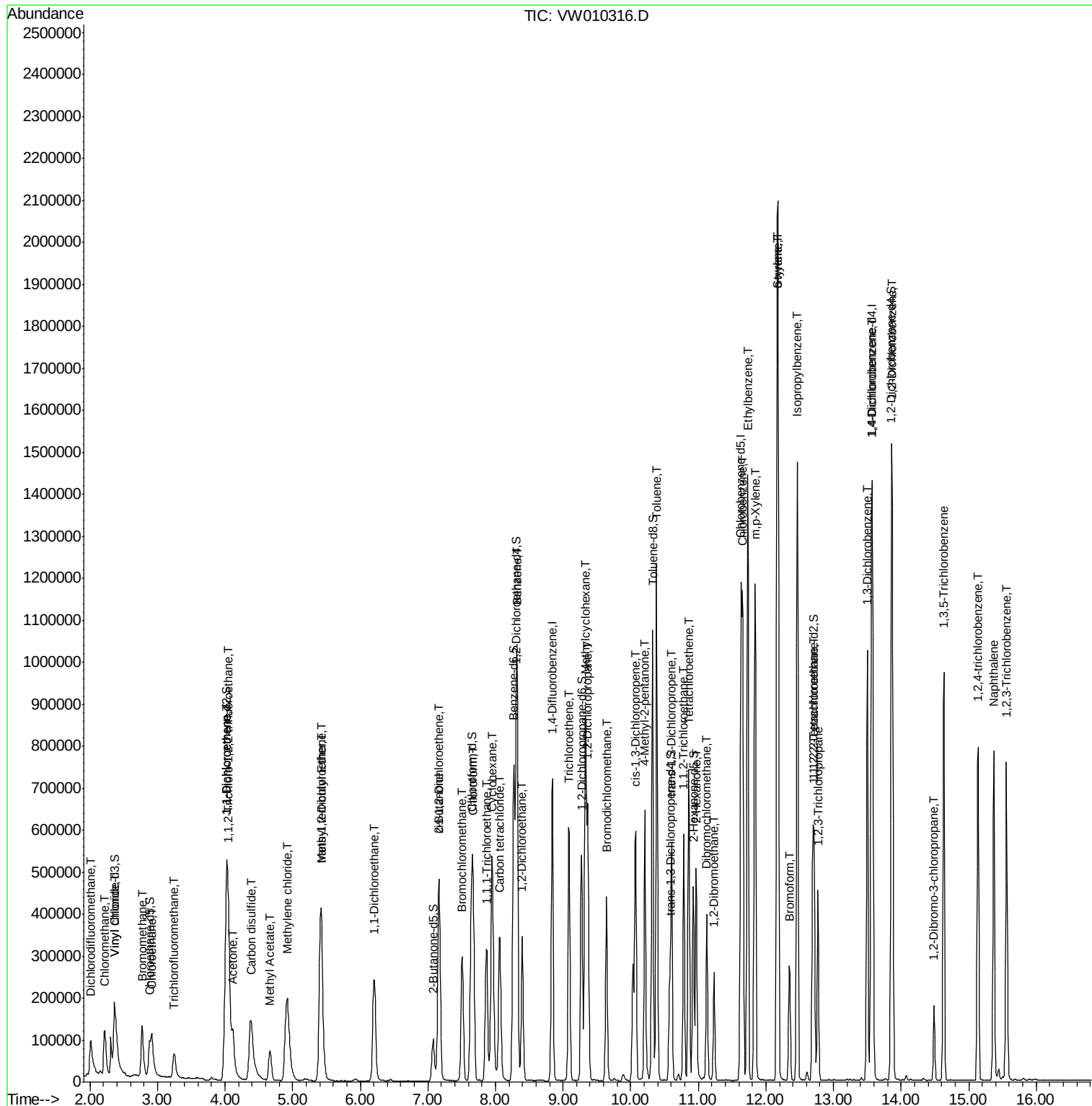
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	97914	27.198	ug/L	93
25) Chloroform	7.67	83	381014	25.903	ug/L	100
27) 1,2-Dichloroethane	8.40	62	300820	27.865	ug/L	98
30) Cyclohexane	7.95	56	304458	21.419	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	255438	20.404	ug/L	100
32) Carbon tetrachloride	8.06	117	262486	21.096	ug/L	100
34) Benzene	8.32	78	818362	24.254	ug/L	100
35) Trichloroethene	9.09	95	203780	22.857	ug/L	99
36) Methylcyclohexane	9.34	83	331688	22.026	ug/L	99
40) 1,2-Dichloropropane	9.37	63	219951	25.545	ug/L	99
41) Bromodichloromethane	9.64	83	288039	25.851	ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	321682	24.967	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	425014	55.408	ug/L	99
44) Toluene	10.38	91	873246	24.711	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	287779	25.903	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	172774	26.865	ug/L	98
47) Tetrachloroethene	10.86	164	151614	22.492	ug/L	97
49) 2-Hexanone	10.97	43	320556	55.106	ug/L	98
50) Dibromochloromethane	11.13	129	198181	26.789	ug/L	98
51) 1,2-Dibromoethane	11.23	107	171226	27.030	ug/L	98
52) Chlorobenzene	11.66	112	539167	24.424	ug/L	99
53) Ethylbenzene	11.73	91	955491	24.224	ug/L	99
54) m,p-Xylene	11.84	106	356657	24.856	ug/L	97
55) o-xylene	12.16	106	341757	25.584	ug/L	99
56) Styrene	12.18	104	619497	26.876	ug/L	99
57) Isopropylbenzene	12.46	105	897849	24.458	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	238119	26.940	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	185850	27.391	ug/L	100
62) Bromoform	12.35	173	120204	25.946	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	386926	24.125	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	420093	24.185	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	396891	25.720	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.49	75	46130	25.086	ug/L	97
67) 1,3,5-Trichlorobenzene	14.63	180	278774	23.205	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	234343	24.648	ug/L	98
69) Naphthalene	15.37	128	624314	29.117	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	244016	26.719	ug/L	98

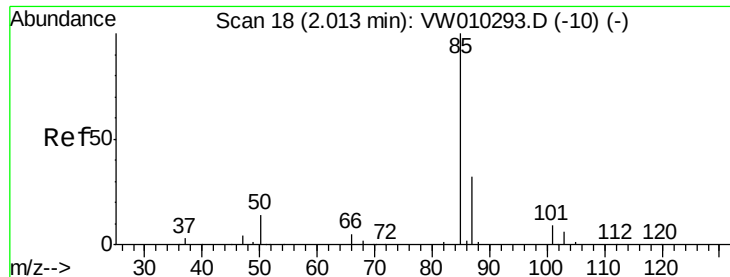
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.241 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampled :

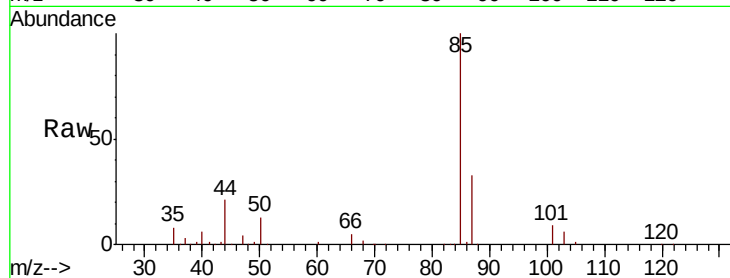
VSTD02511

Tgt Ion: 85 Resp: 157548

Ion Ratio Lower Upper

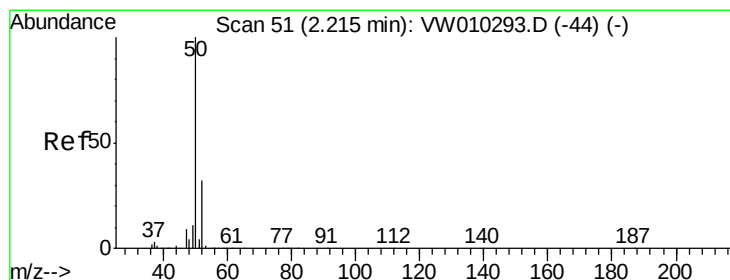
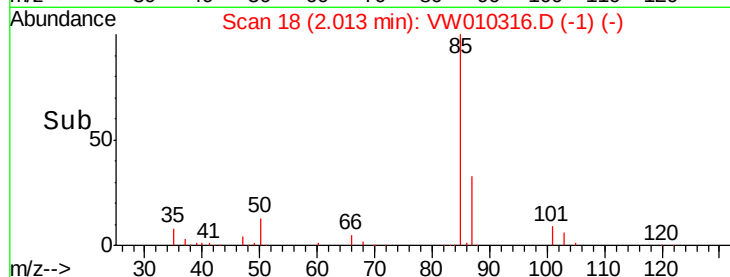
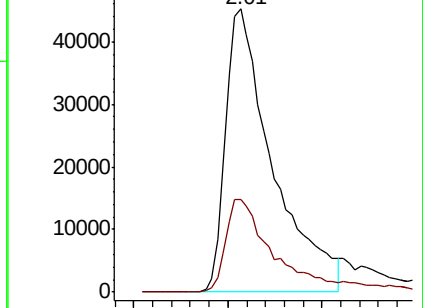
85 100

87 29.2 18.7 34.7



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 23.102 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW010316.D

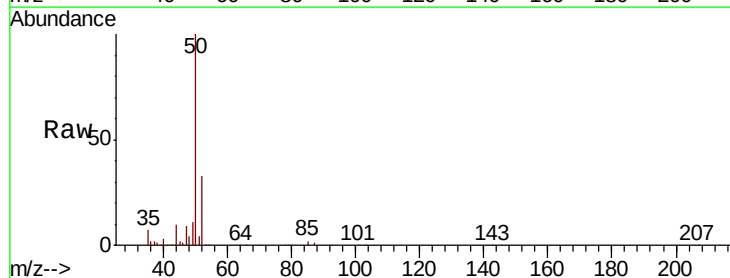
Acq: 08 May 2019 00:40

Tgt Ion: 50 Resp: 165142

Ion Ratio Lower Upper

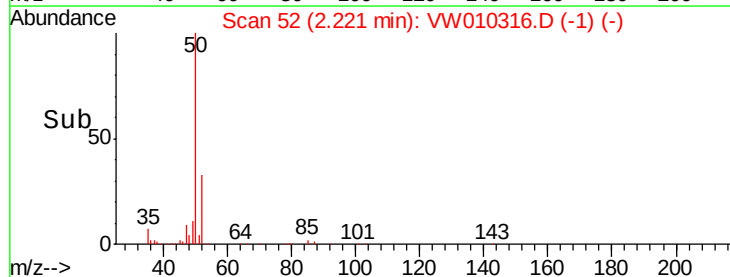
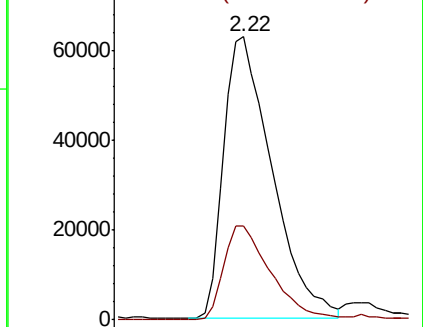
50 100

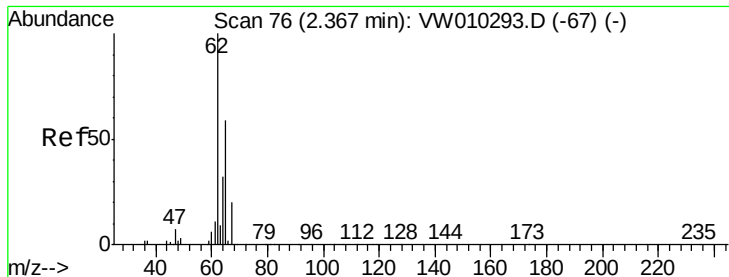
52 33.0 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 21.646 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

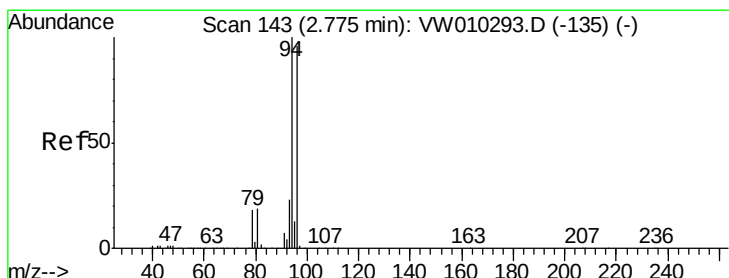
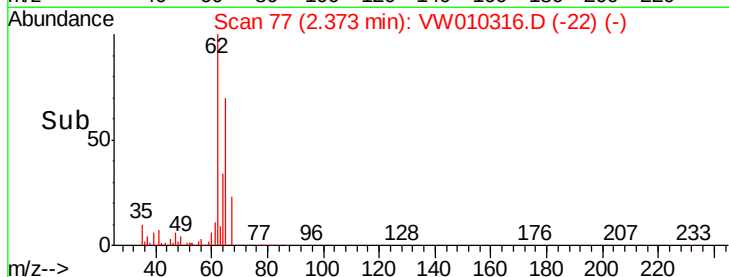
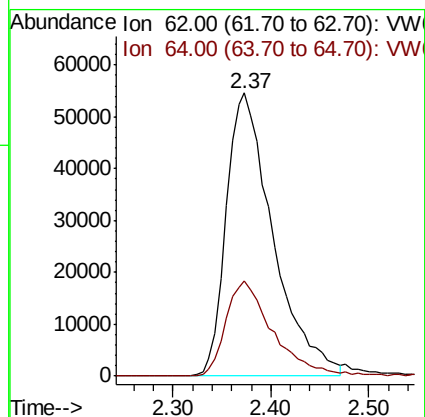
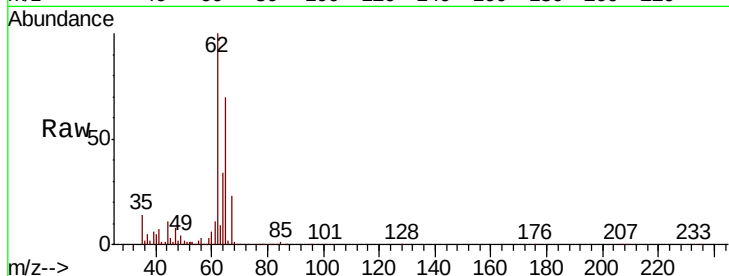
VSTD02511

Tgt Ion: 62 Resp: 181181

Ion Ratio Lower Upper

62 100

64 33.5 22.1 41.1



#6

Bromomethane

Concen: 21.007 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW010316.D

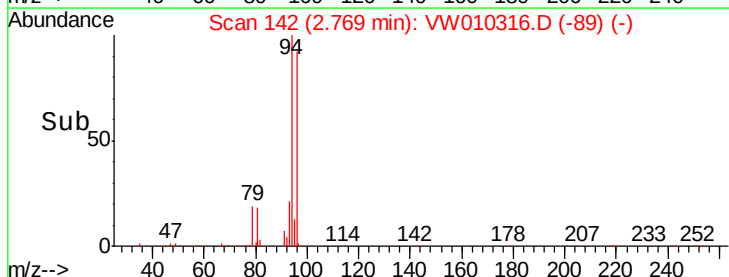
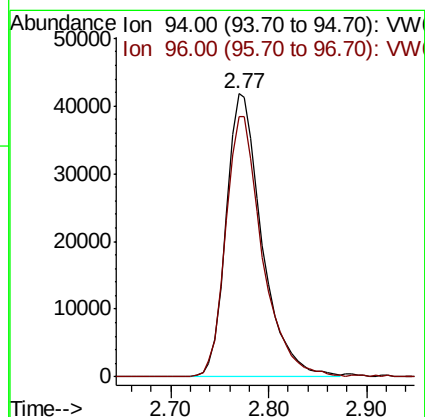
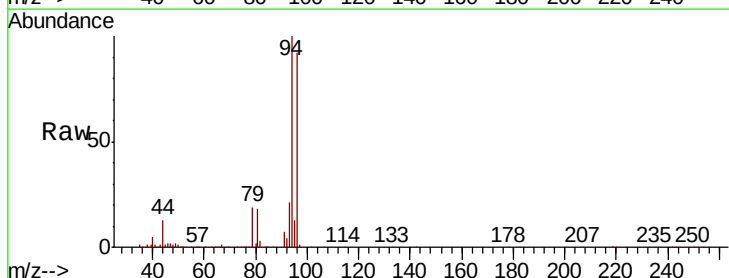
Acq: 08 May 2019 00:40

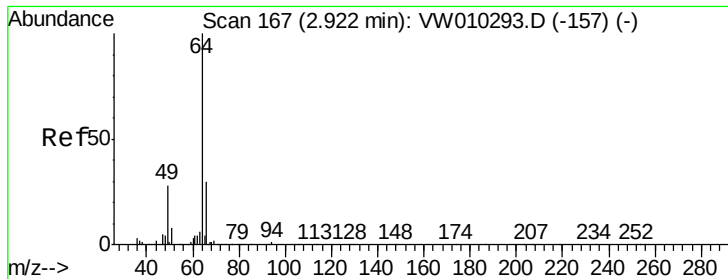
Tgt Ion: 94 Resp: 106285

Ion Ratio Lower Upper

94 100

96 93.8 9.3 177.1





#8

Chloroethane

Concen: 20.538 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

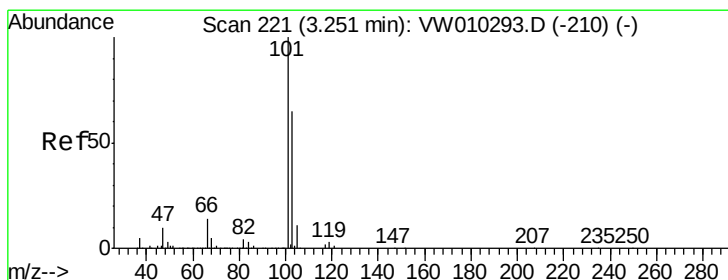
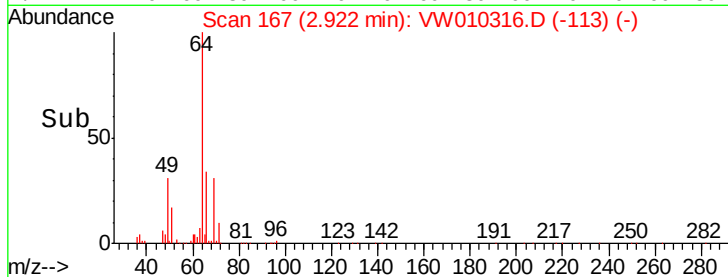
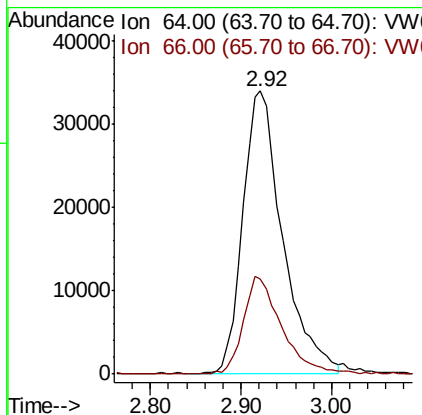
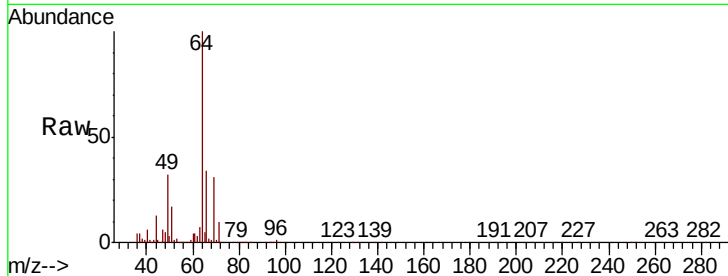
VSTD02511

Tgt Ion: 64 Resp: 103493

Ion Ratio Lower Upper

64 100

66 33.7 21.5 39.9



#9

Trichlorofluoromethane

Concen: 14.180 ug/L

RT: 3.24 min Scan# 220

Delta R.T. -0.01 min

Lab File: VW010316.D

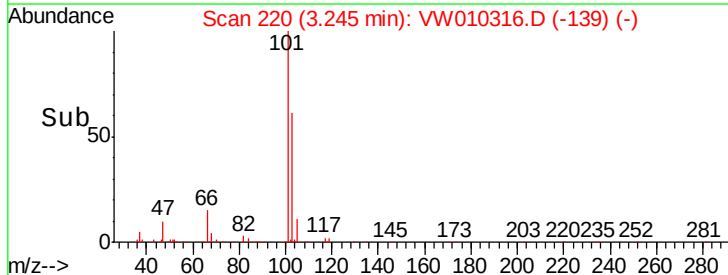
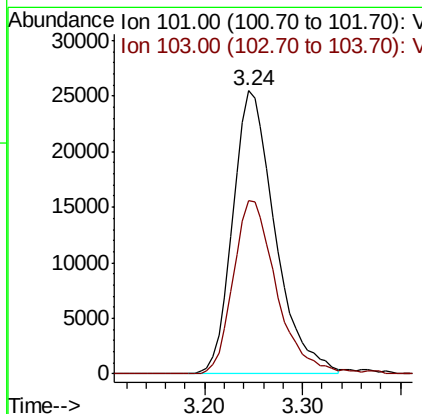
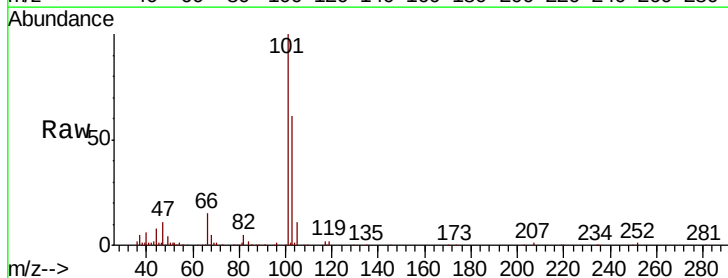
Acq: 08 May 2019 00:40

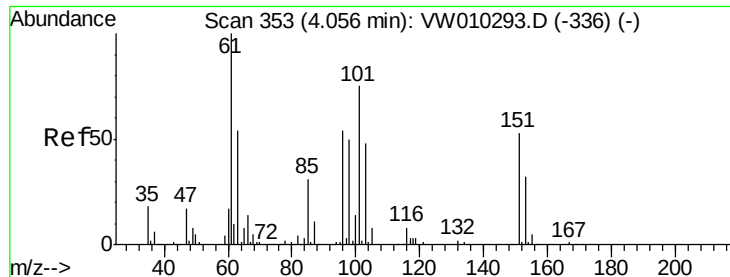
Tgt Ion: 101 Resp: 76611

Ion Ratio Lower Upper

101 100

103 62.7 45.1 83.7





#11

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

Concen: 22.897 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampled :

VSTD02511

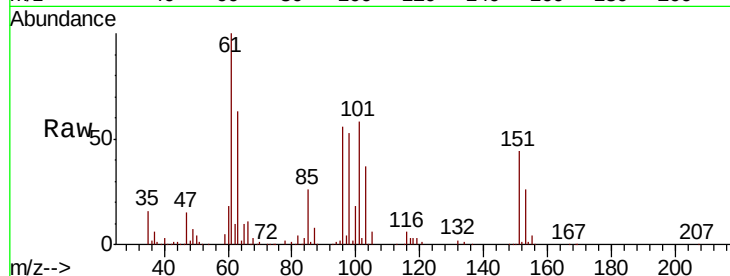
Tgt Ion:101 Resp: 170271

Ion Ratio Lower Upper

101 100

85 42.0 33.7 50.5

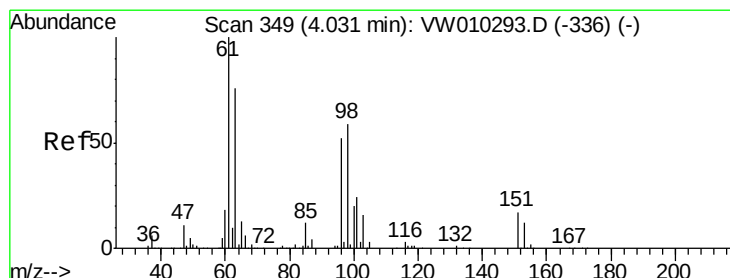
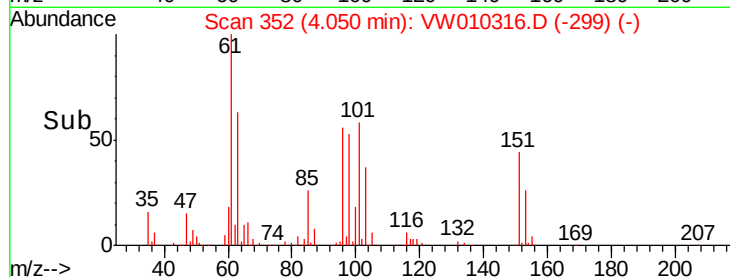
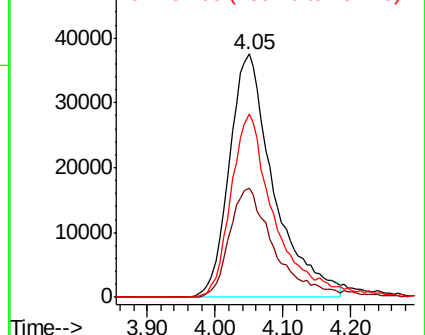
151 71.8 58.7 88.1



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: 23.487 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

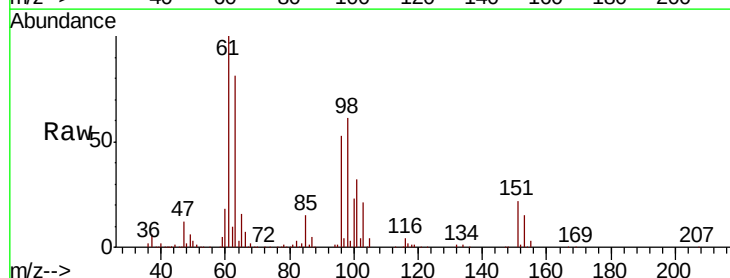
Tgt Ion: 96 Resp: 176925

Ion Ratio Lower Upper

96 100

61 187.7 135.1 250.9

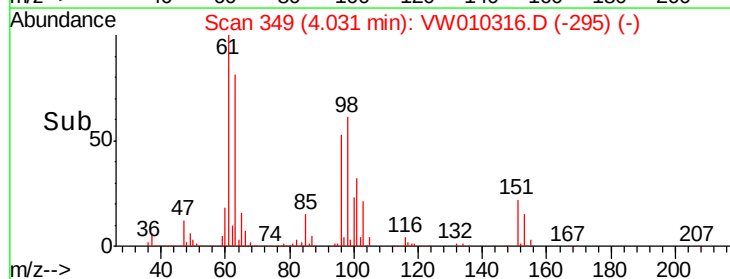
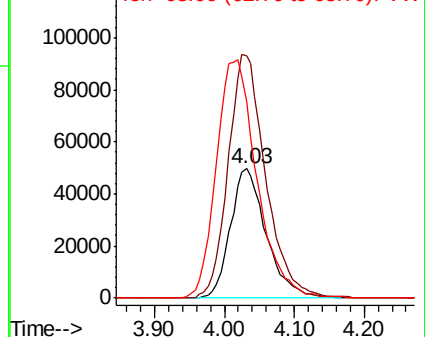
63 151.8 103.1 191.5

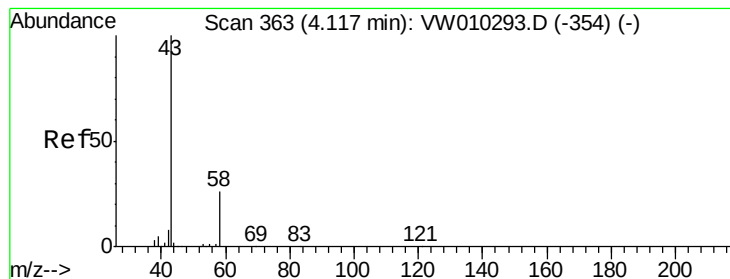


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 48.318 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampled :

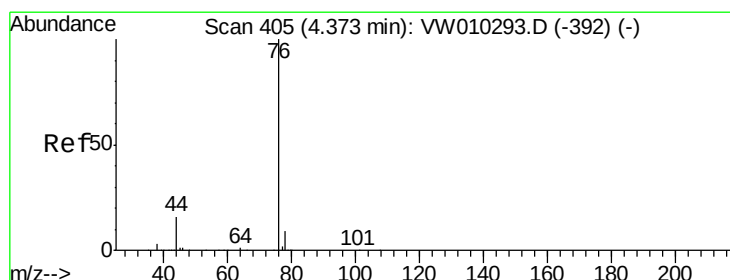
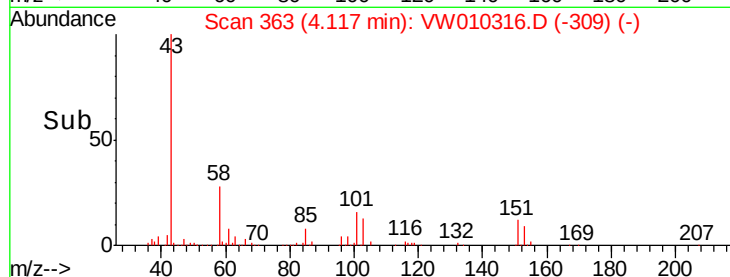
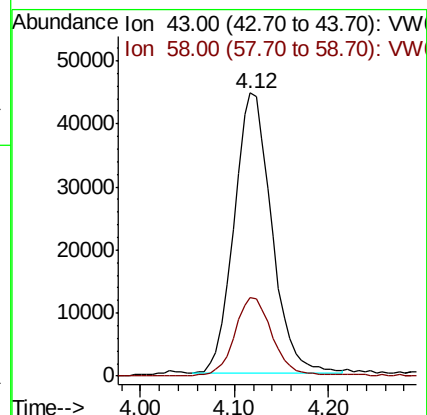
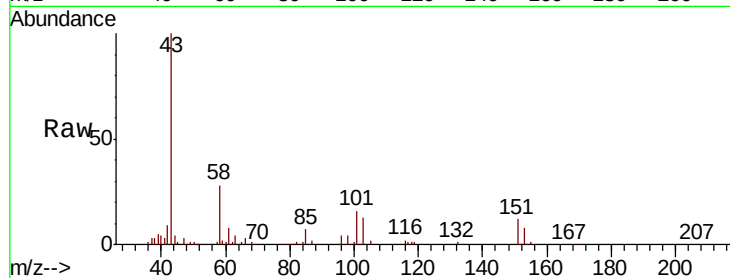
VSTD02511

Tgt Ion: 43 Resp: 123760

Ion Ratio Lower Upper

43 100

58 27.0 0.0 55.2



#14

Carbon disulfide

Concen: 21.991 ug/L

RT: 4.38 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW010316.D

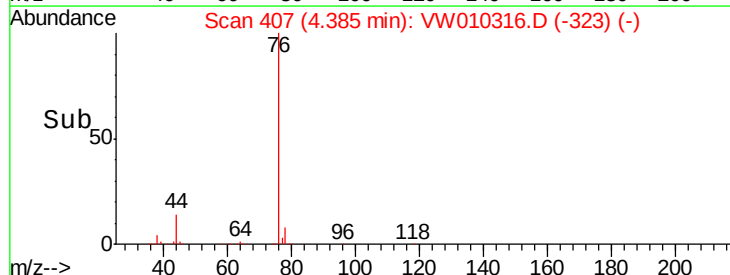
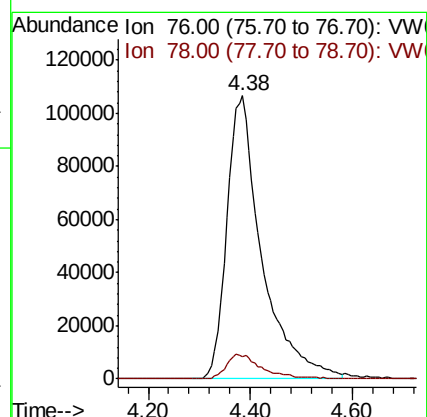
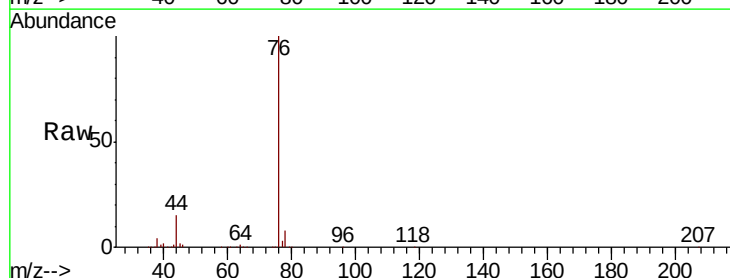
Acq: 08 May 2019 00:40

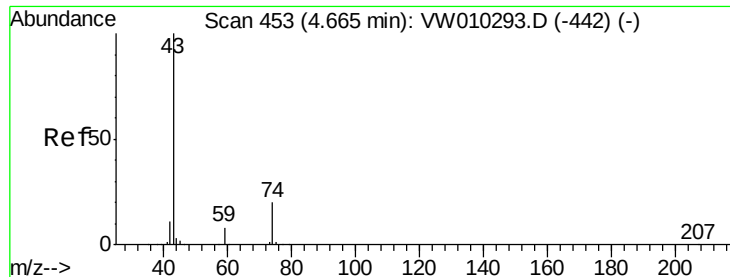
Tgt Ion: 76 Resp: 506968

Ion Ratio Lower Upper

76 100

78 7.7 7.5 11.3

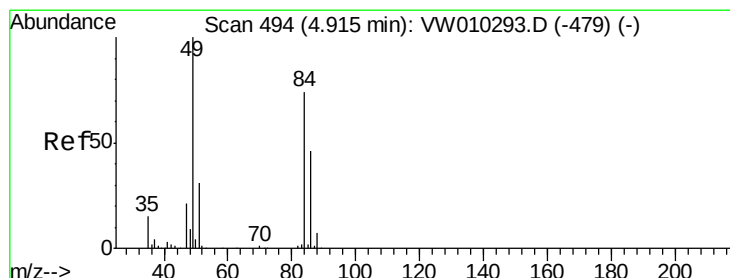
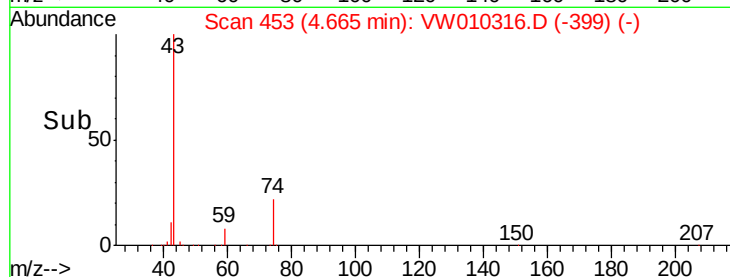
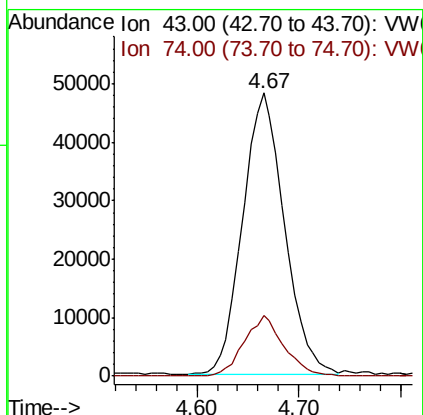
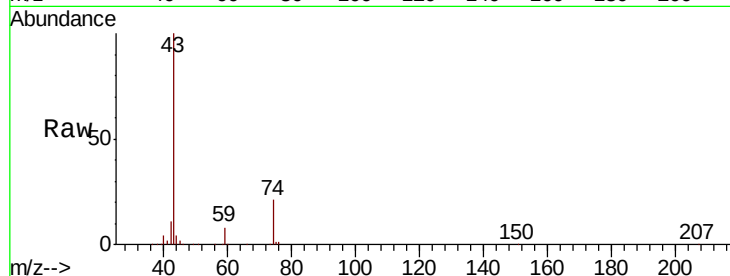




#15
Methyl Acetate
Concen: 25.074 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

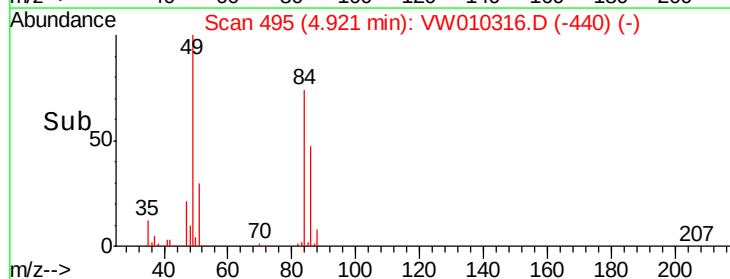
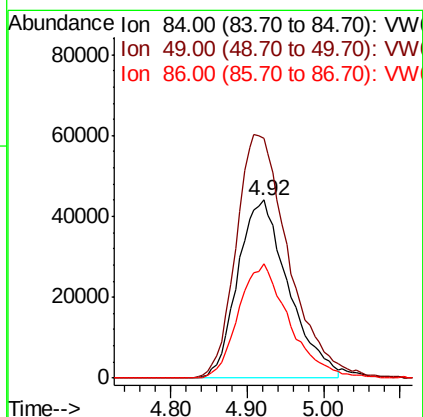
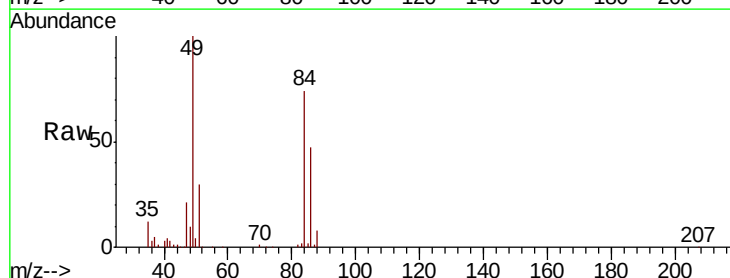
Instrument :
MSVOA_W
ClientSampled :
VSTD02511

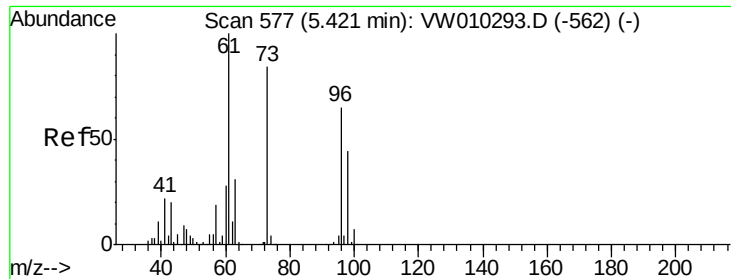
Tgt Ion: 43 Resp: 137016
Ion Ratio Lower Upper
43 100
74 20.7 16.1 24.1



#16
Methylene chloride
Concen: 27.002 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

Tgt Ion: 84 Resp: 202837
Ion Ratio Lower Upper
84 100
49 135.1 94.4 175.4
86 64.1 43.8 81.4

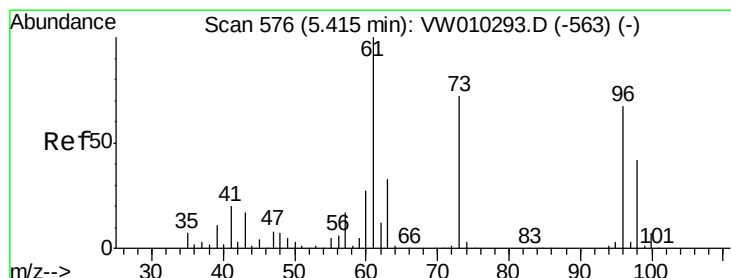
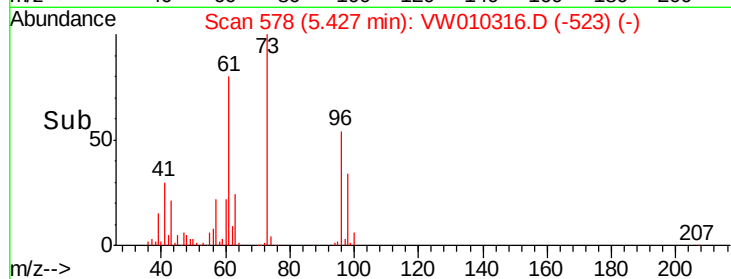
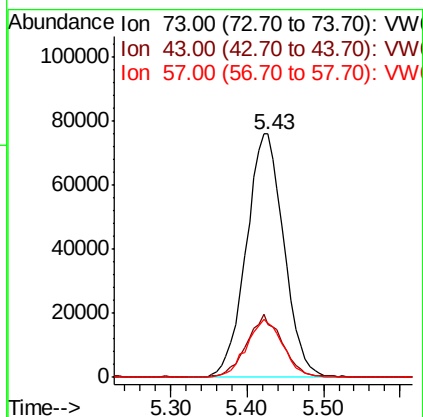
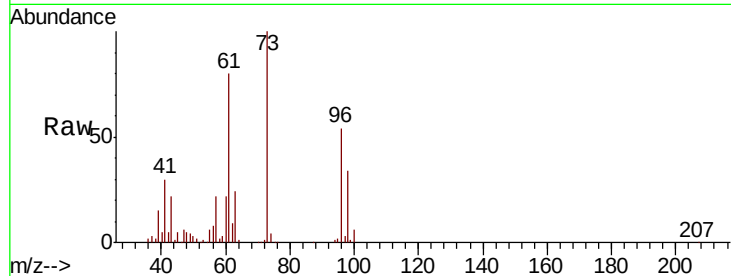




#17
Methyl tert-butyl Ether
Concen: 26.327 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

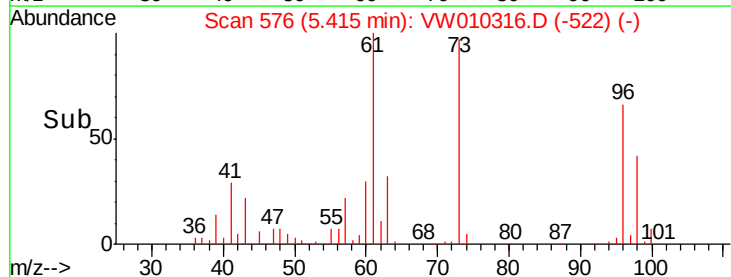
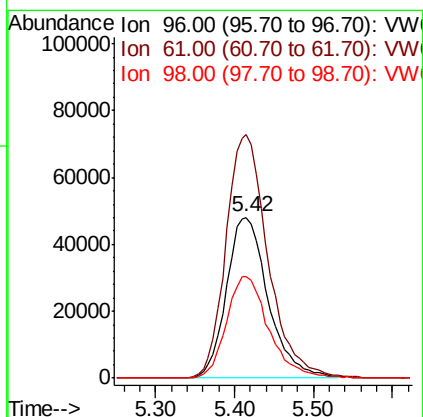
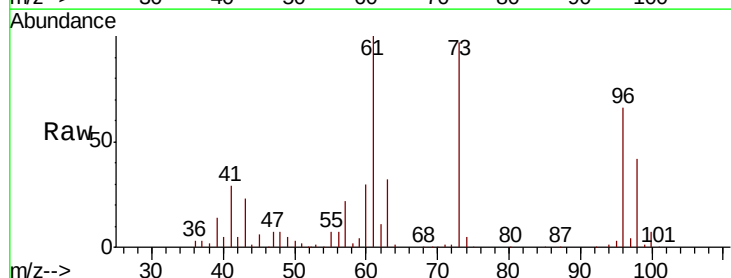
Instrument :
MSVOA_W
ClientSampled :
VSTD02511

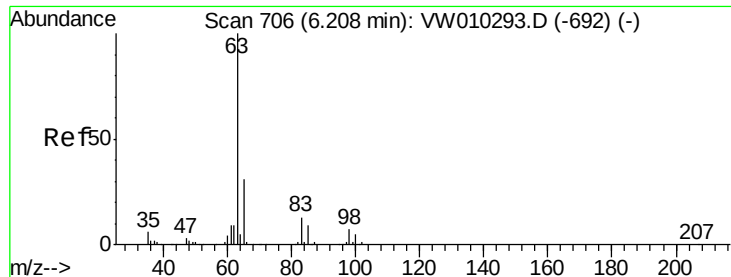
Tgt Ion: 73 Resp: 259941
Ion Ratio Lower Upper
73 100
43 23.5 19.5 29.3
57 23.1 18.9 28.3



#18
trans-1,2-Dichloroethene
Concen: 22.721 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

Tgt Ion: 96 Resp: 176560
Ion Ratio Lower Upper
96 100
61 151.3 103.7 192.7
98 63.0 43.6 81.0

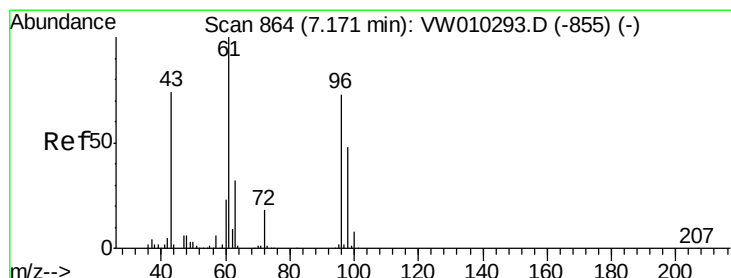
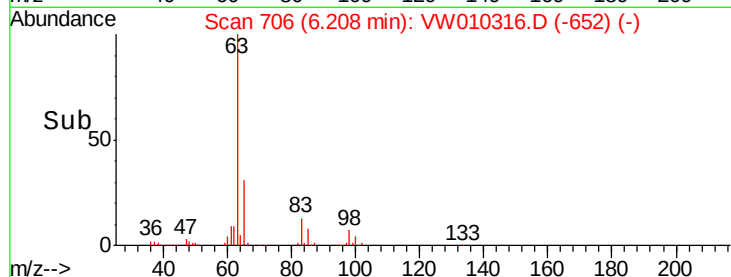
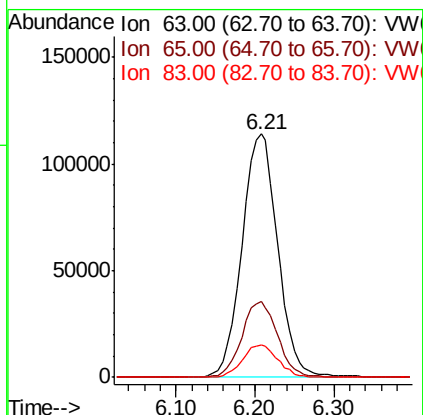
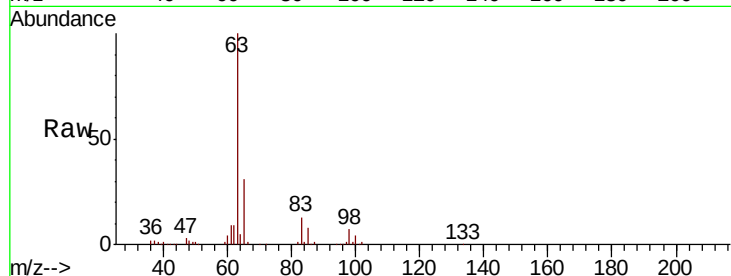




#19
 1,1-Dichloroethane
 Concen: 24.046 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VW010316.D
 Acq: 08 May 2019 00:40

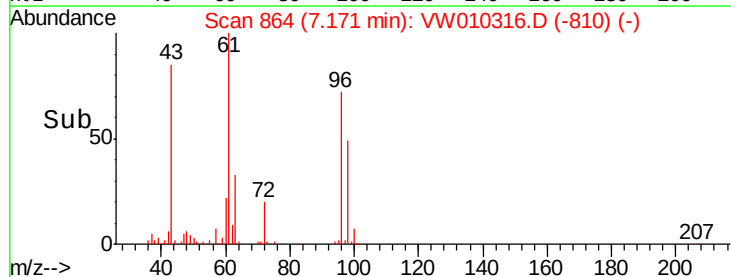
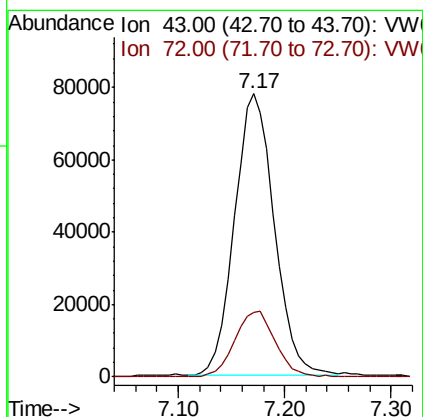
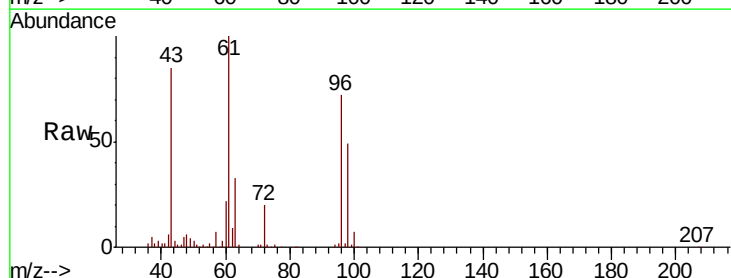
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

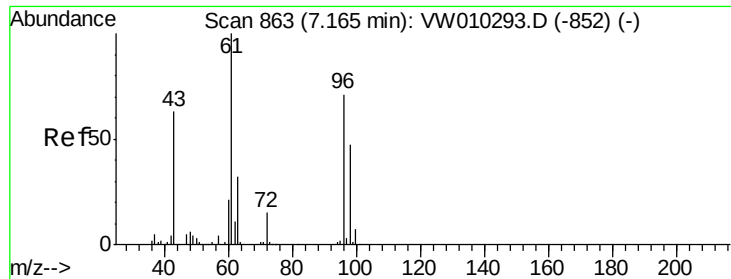
Tgt Ion: 63 Resp: 358170
 Ion Ratio Lower Upper
 63 100
 65 31.4 21.8 40.4
 83 13.3 9.2 17.2



#21
 2-Butanone
 Concen: 55.441 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW010316.D
 Acq: 08 May 2019 00:40

Tgt Ion: 43 Resp: 203136
 Ion Ratio Lower Upper
 43 100
 72 23.9 11.7 35.1



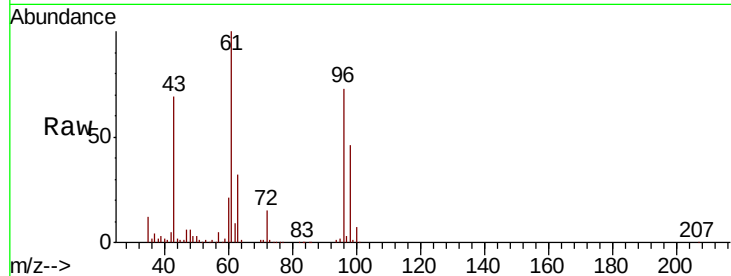


#22

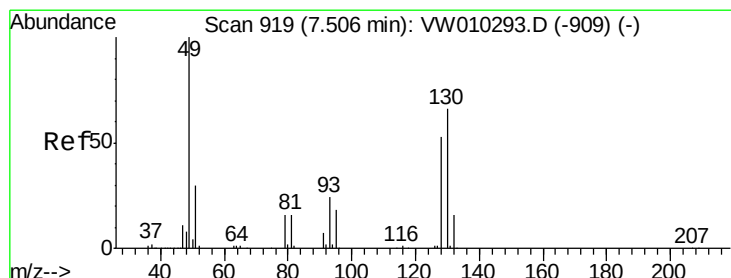
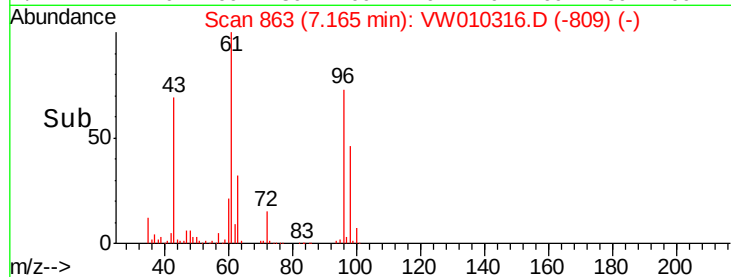
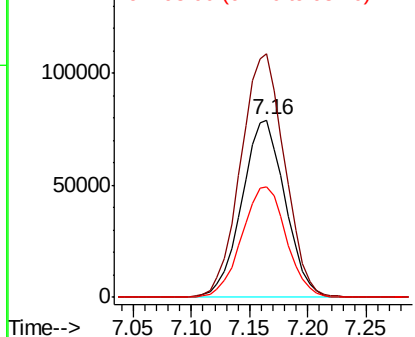
cis-1,2-Dichloroethene
Concen: 25.311 ug/L
RT: 7.16 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

Tgt Ion: 96 Resp: 203105
Ion Ratio Lower Upper
96 100
61 137.4 98.2 182.4
98 62.6 45.8 85.2



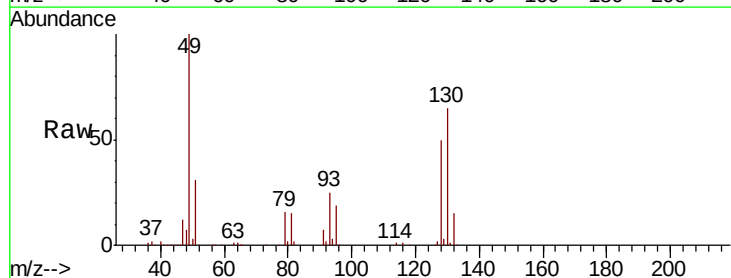
Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



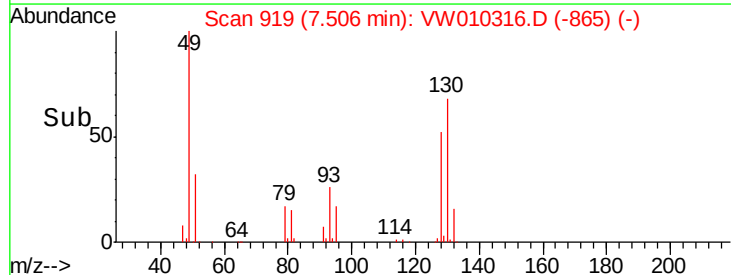
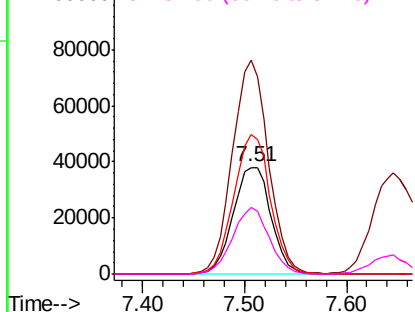
#23

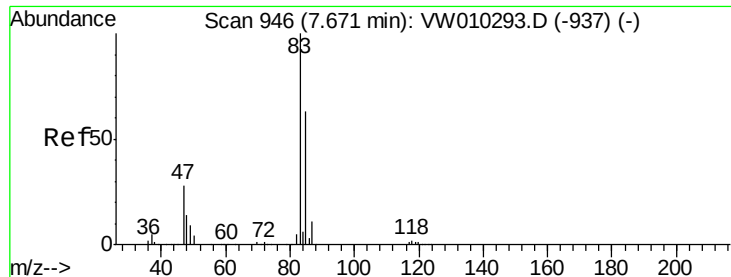
Bromochloromethane
Concen: 27.198 ug/L
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

Tgt Ion: 128 Resp: 97914
Ion Ratio Lower Upper
128 100
49 200.2 132.5 246.1
130 130.4 86.7 161.1
51 62.7 45.9 68.9



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: 25.903 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

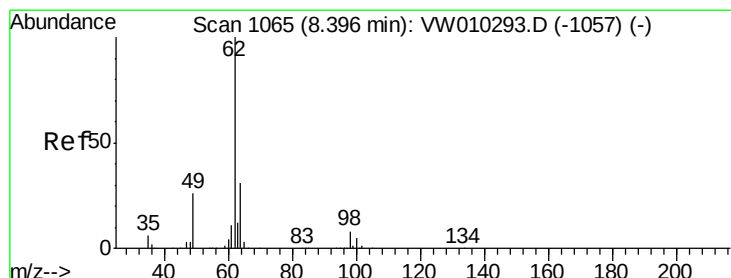
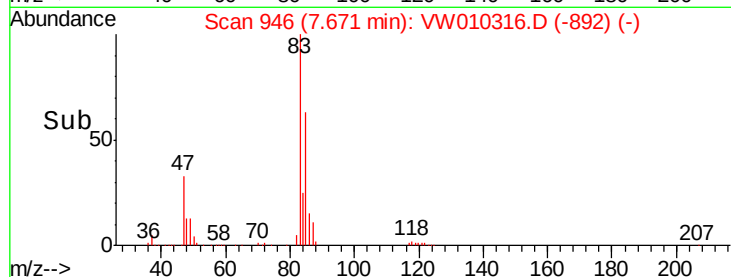
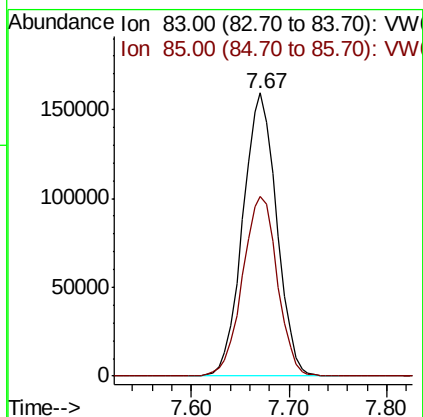
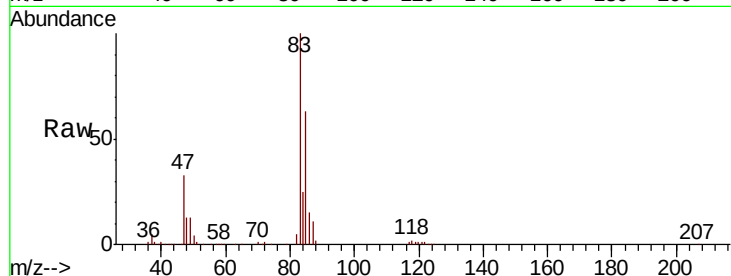
VSTD02511

Tgt Ion: 83 Resp: 381014

Ion Ratio Lower Upper

83 100

85 65.5 45.8 85.0



#27

1,2-Dichloroethane

Concen: 27.865 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW010316.D

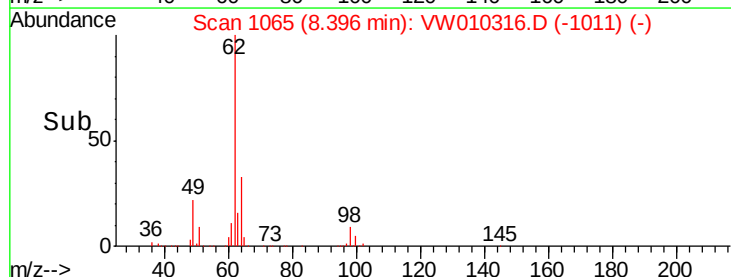
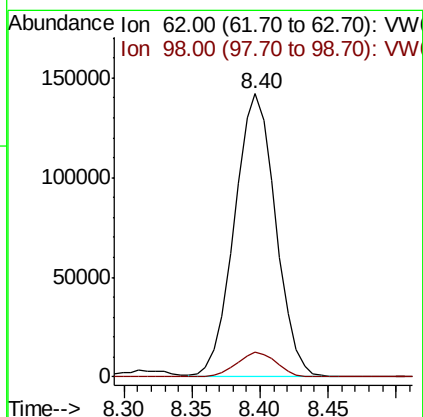
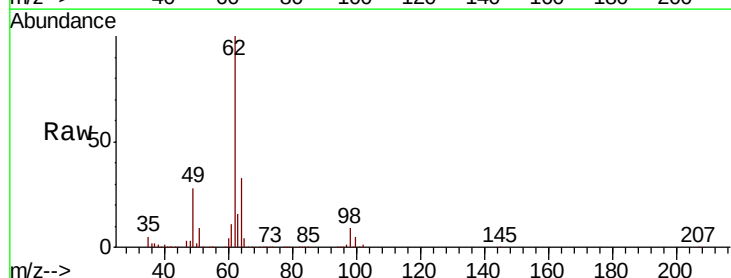
Acq: 08 May 2019 00:40

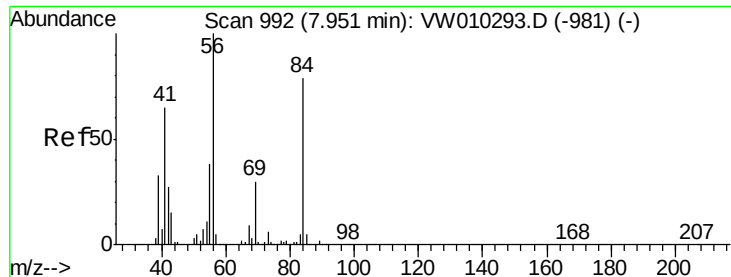
Tgt Ion: 62 Resp: 300820

Ion Ratio Lower Upper

62 100

98 8.7 6.2 9.4

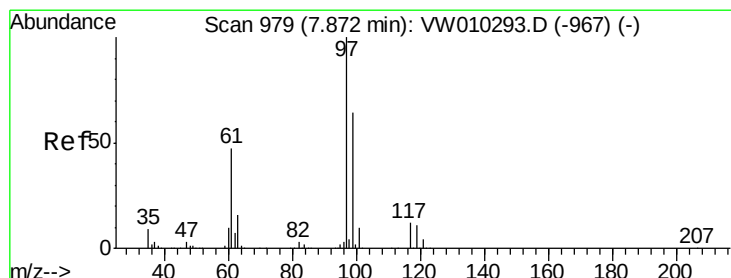
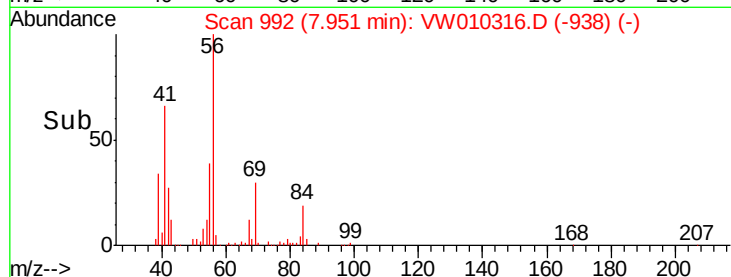
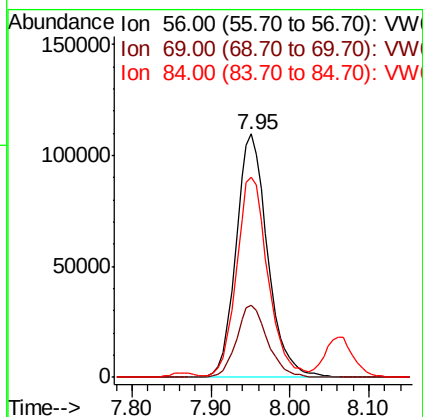
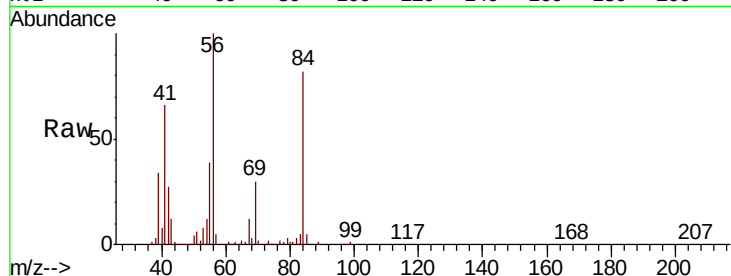




#30
Cyclohexane
Concen: 21.419 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

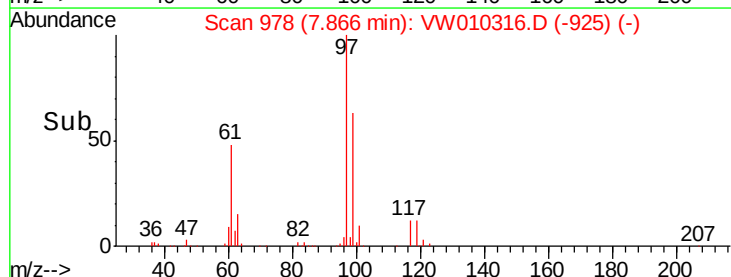
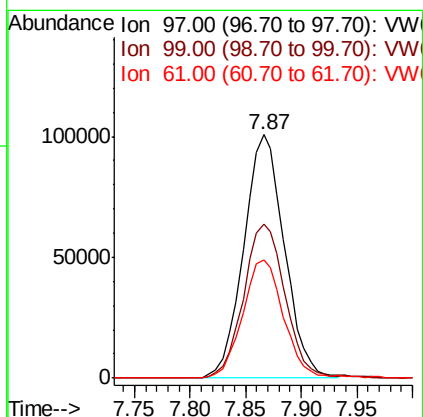
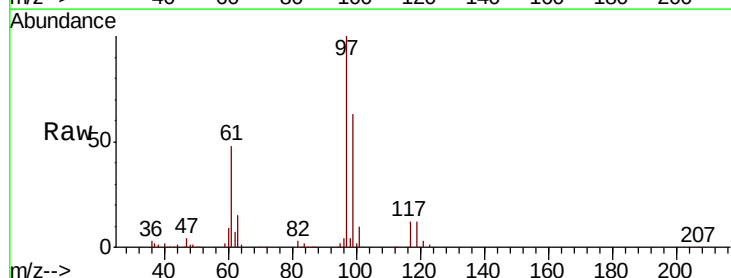
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

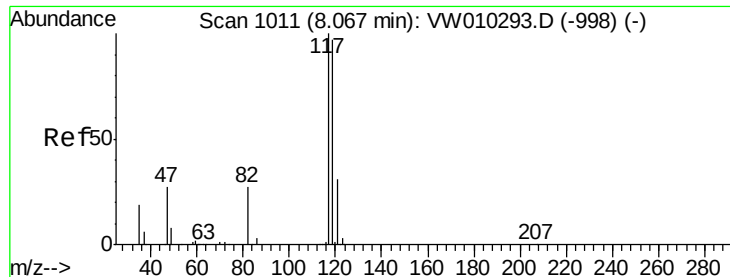
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.2	23.6	35.4
84	82.2	65.8	98.8



#31
1,1,1-Trichloroethane
Concen: 20.404 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

Tgt Ion	Ratio	Lower	Upper
97	100		
61	48.6	39.3	58.9
99	64.6	51.8	77.6





#32

Carbon tetrachloride

Concen: 21.096 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

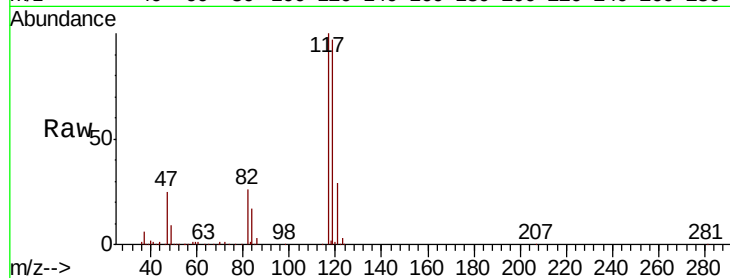
VSTD02511

Tgt Ion:117 Resp: 262486

Ion Ratio Lower Upper

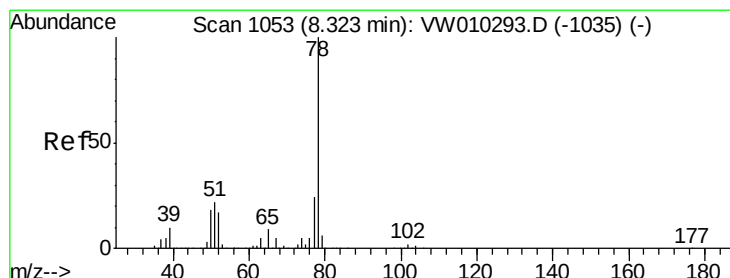
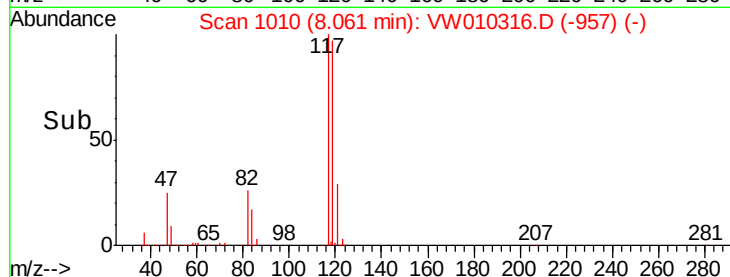
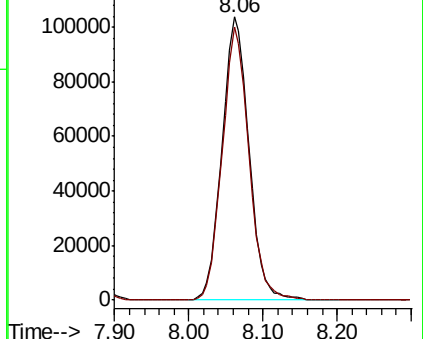
117 100

119 95.5 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.254 ug/L

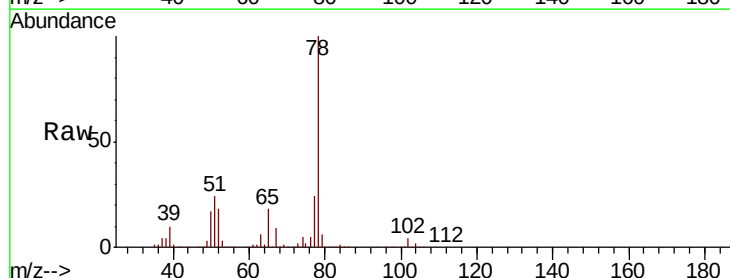
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

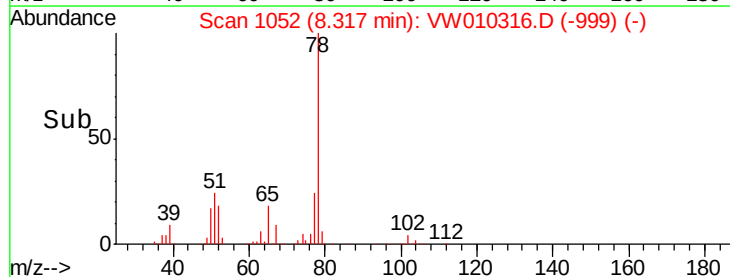
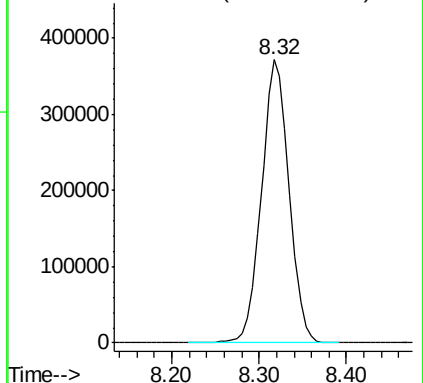
Lab File: VW010316.D

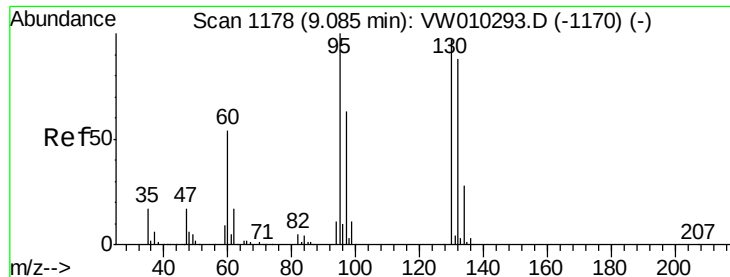
Acq: 08 May 2019 00:40

Tgt Ion: 78 Resp: 818362



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 22.857 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

Tgt Ion: 95 Resp: 203780

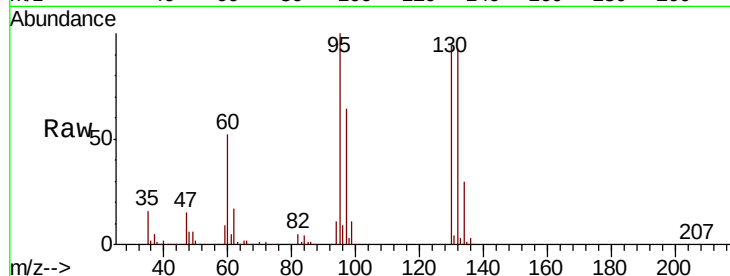
Ion Ratio Lower Upper

95 100

97 63.8 44.8 83.2

132 93.2 64.7 120.1

130 96.3 68.3 126.9

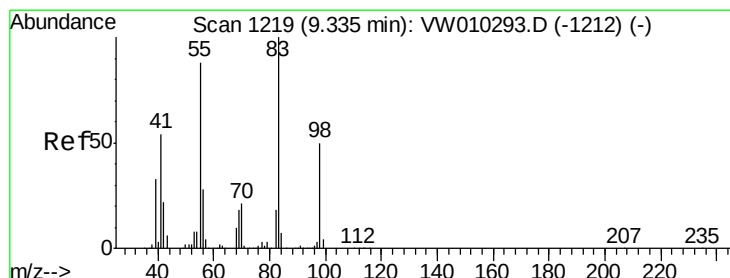
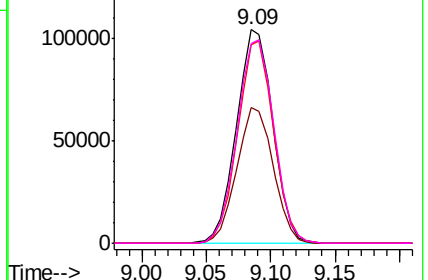
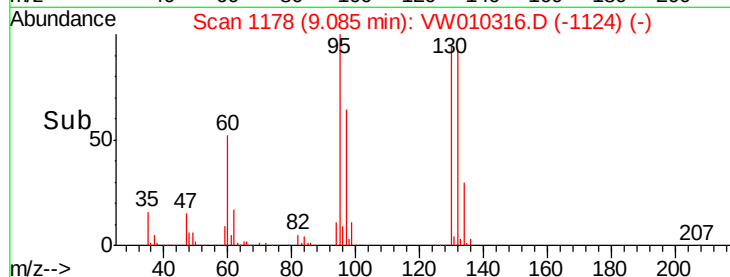


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 22.026 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

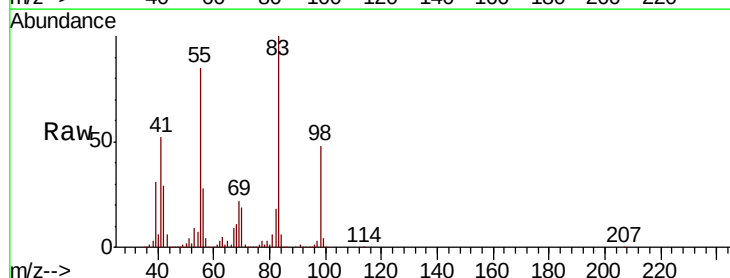
Tgt Ion: 83 Resp: 331688

Ion Ratio Lower Upper

83 100

55 85.1 67.2 100.8

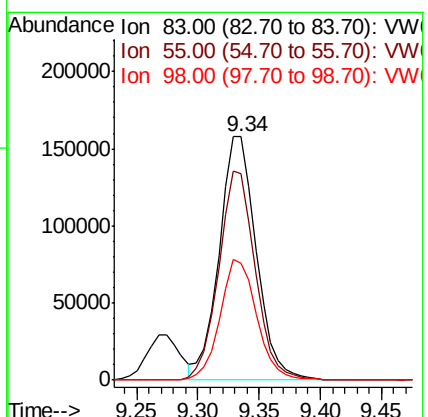
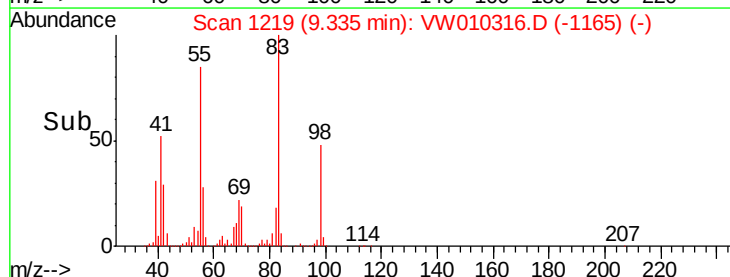
98 49.2 38.7 58.1

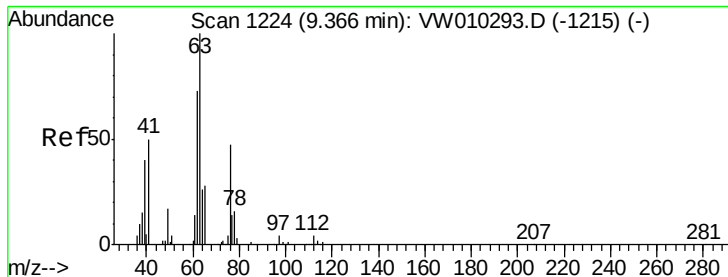


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 25.545 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

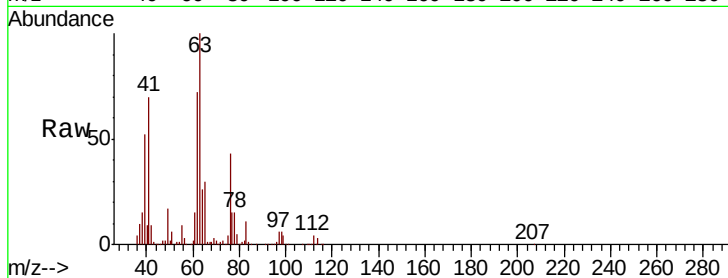
VSTD02511

Tgt Ion: 63 Resp: 219951

Ion Ratio Lower Upper

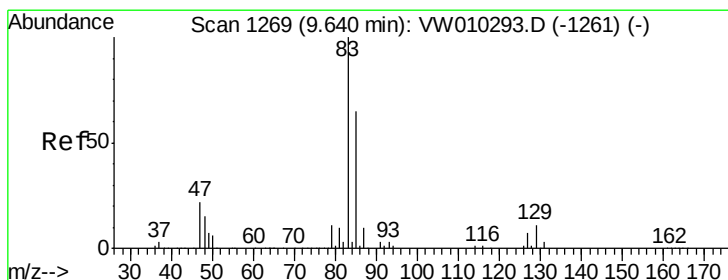
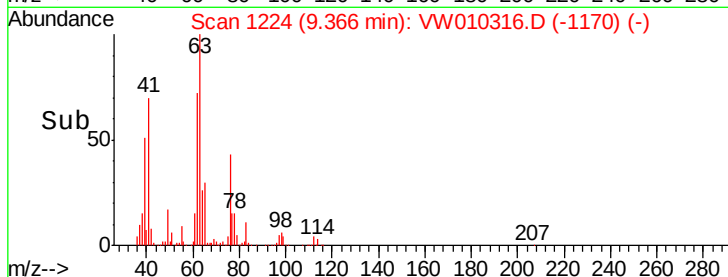
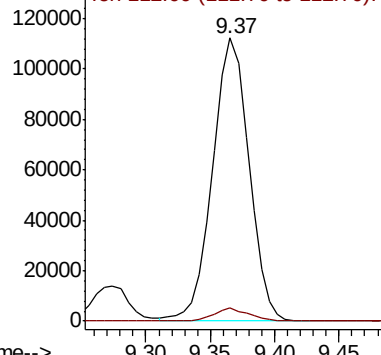
63 100

112 4.4 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 25.851 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

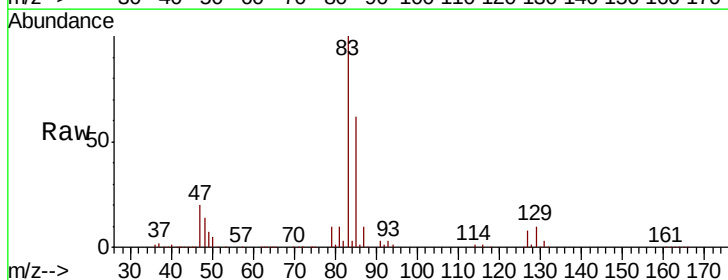
Tgt Ion: 83 Resp: 288039

Ion Ratio Lower Upper

83 100

85 62.3 45.5 84.5

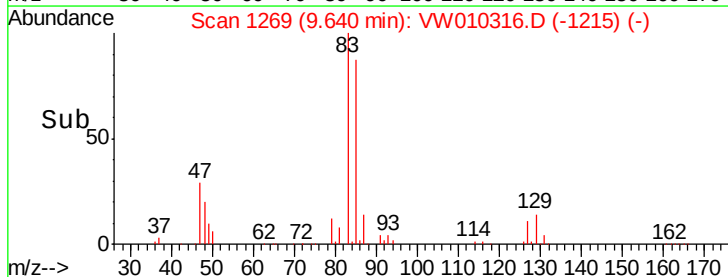
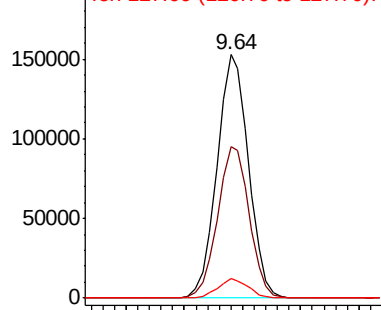
127 8.1 5.6 8.4

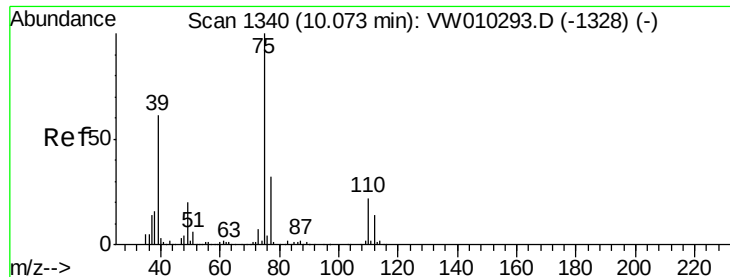


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 24.967 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

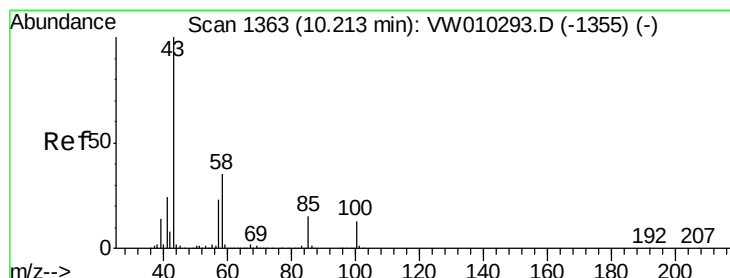
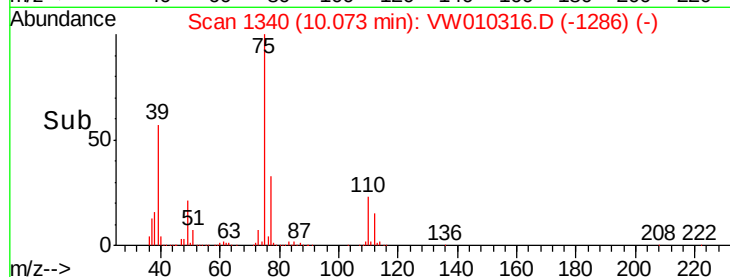
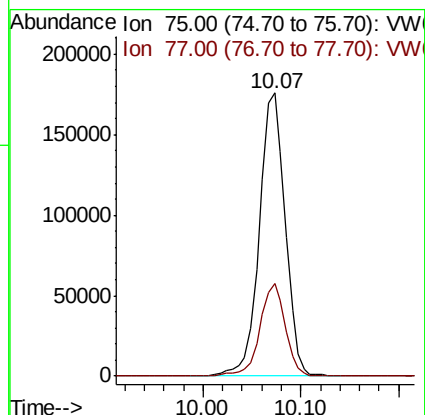
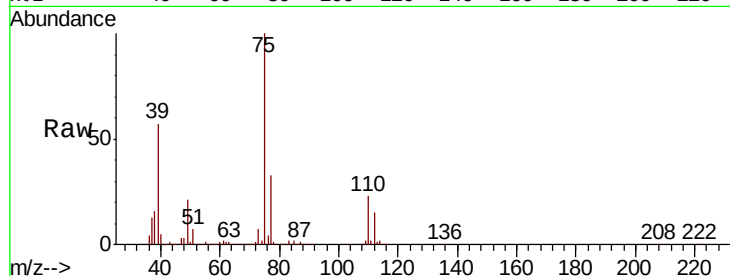
VSTD02511

Tgt Ion: 75 Resp: 321682

Ion Ratio Lower Upper

75 100

77 32.7 22.5 41.7



#43

4-Methyl-2-pentanone

Concen: 55.408 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

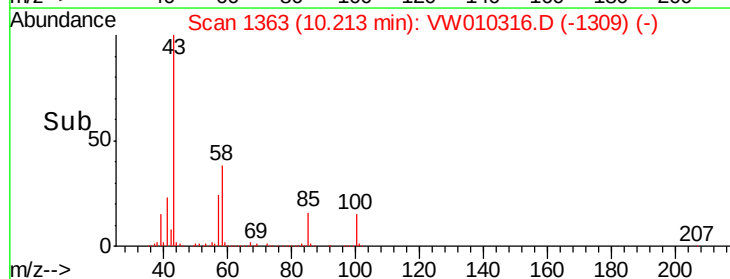
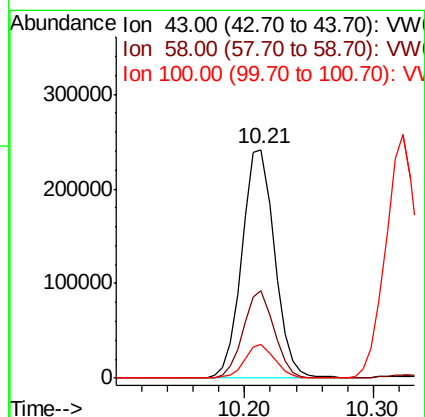
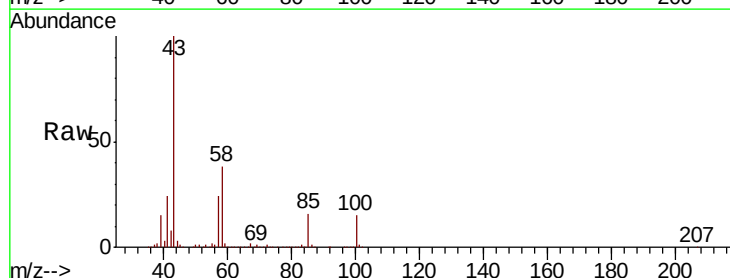
Tgt Ion: 43 Resp: 425014

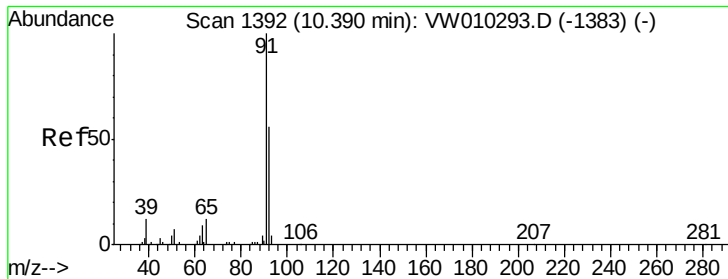
Ion Ratio Lower Upper

43 100

58 36.1 28.3 42.5

100 13.4 10.5 15.7





#44

Toluene

Concen: 24.711 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

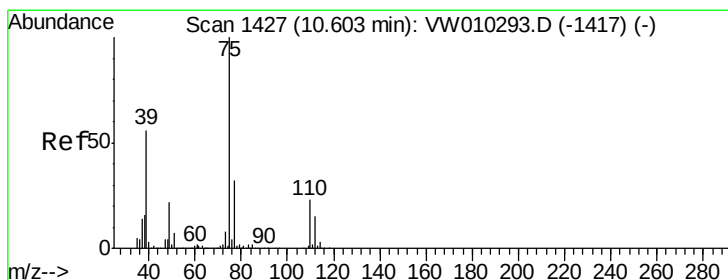
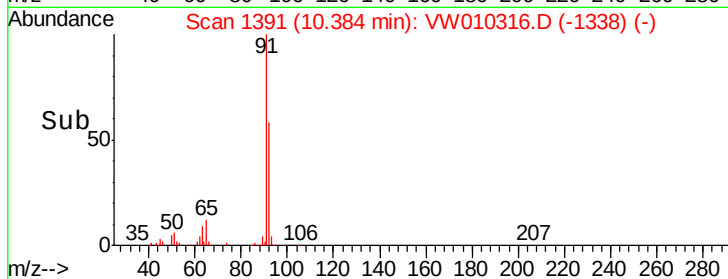
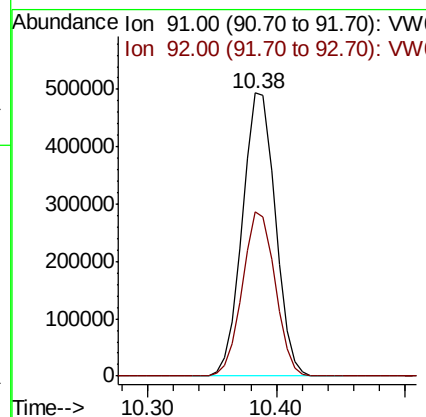
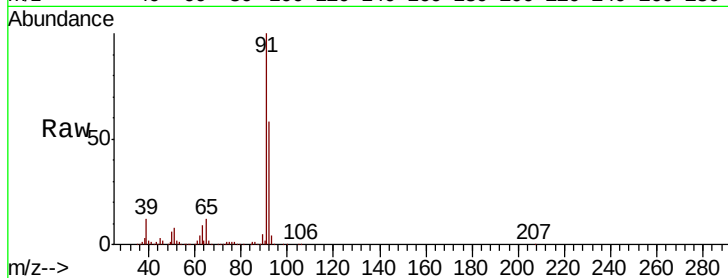
VSTD02511

Tgt Ion: 91 Resp: 873246

Ion Ratio Lower Upper

91 100

92 57.9 39.5 73.4



#45

trans-1,3-Dichloropropene

Concen: 25.903 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW010316.D

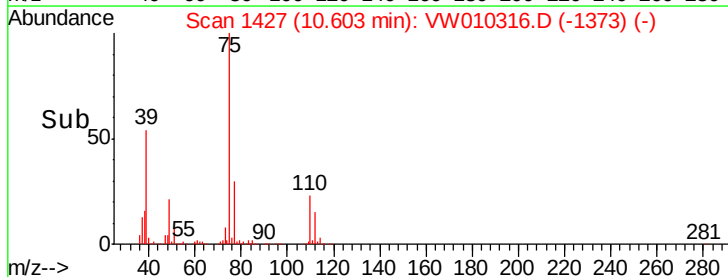
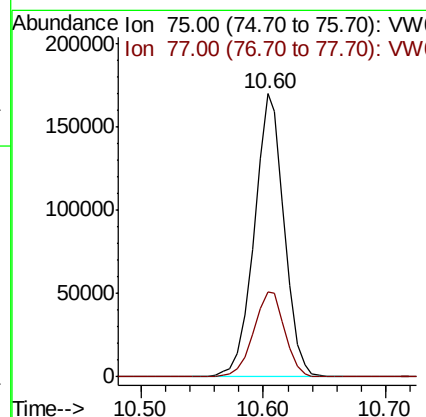
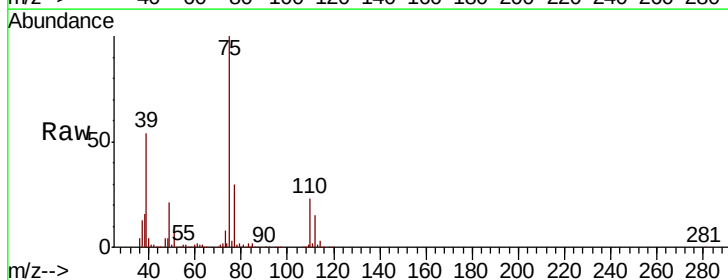
Acq: 08 May 2019 00:40

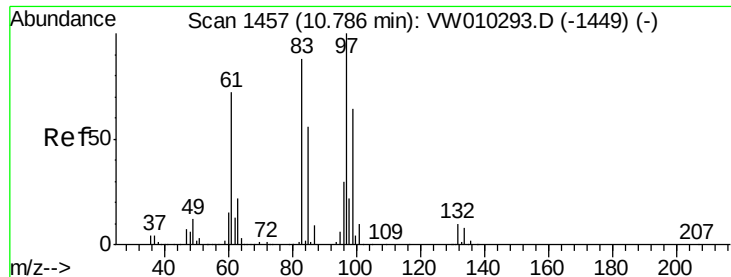
Tgt Ion: 75 Resp: 287779

Ion Ratio Lower Upper

75 100

77 30.0 22.1 41.1





#46

1,1,2-Trichloroethane

Concen: 26.865 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

Tgt Ion: 97 Resp: 172774

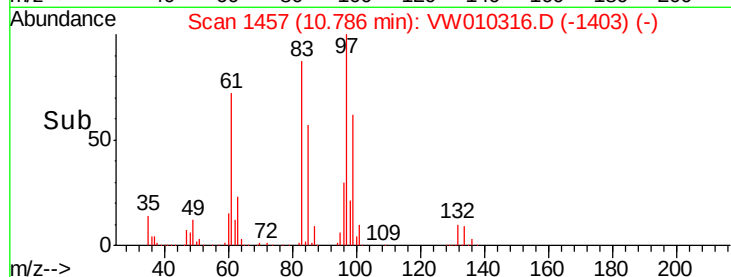
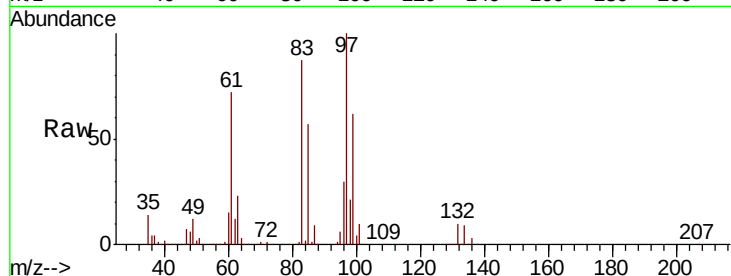
Ion Ratio Lower Upper

97 100

83 86.6 61.2 113.8

85 57.4 39.3 72.9

99 62.0 44.7 82.9



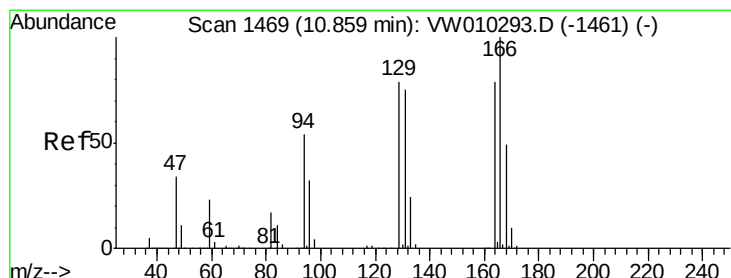
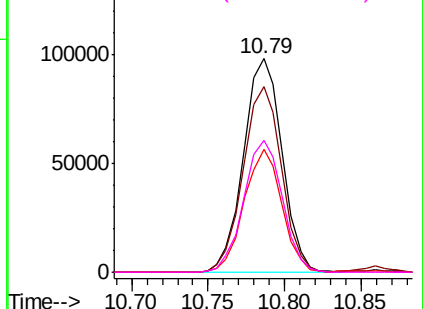
Abundance

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: 22.492 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Tgt Ion: 164 Resp: 151614

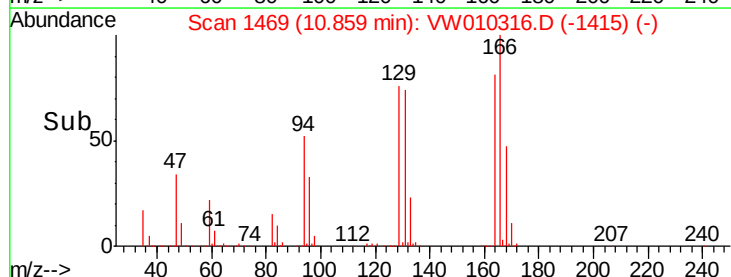
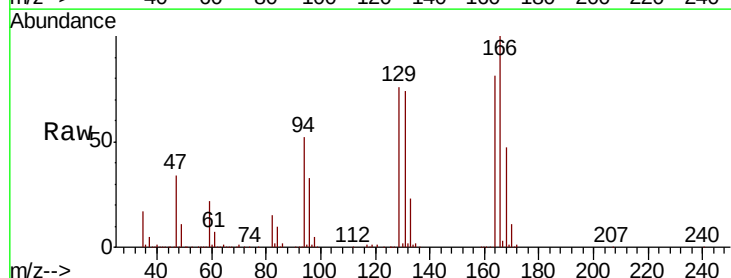
Ion Ratio Lower Upper

164 100

129 94.6 70.1 130.3

131 92.4 66.2 123.0

166 124.0 88.8 164.8



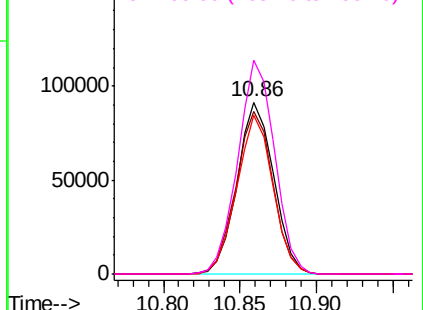
Abundance

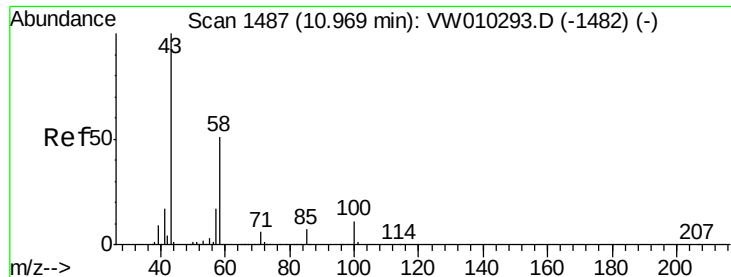
Ion 164.00 (163.70 to 164.70): V

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

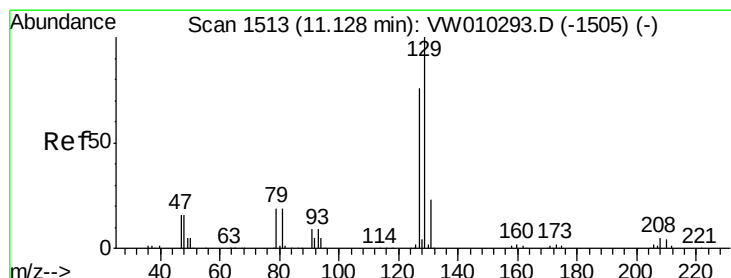
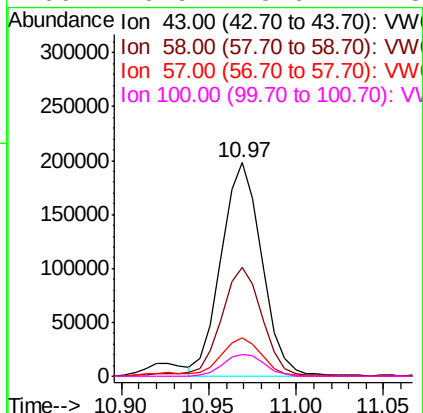
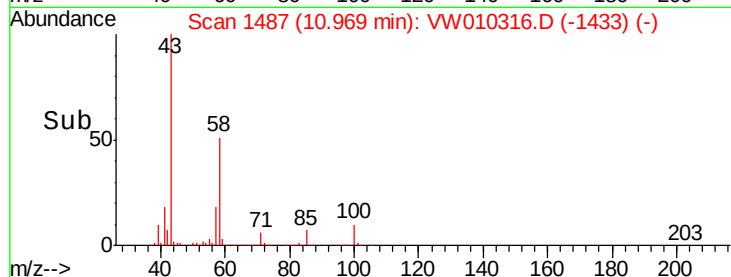
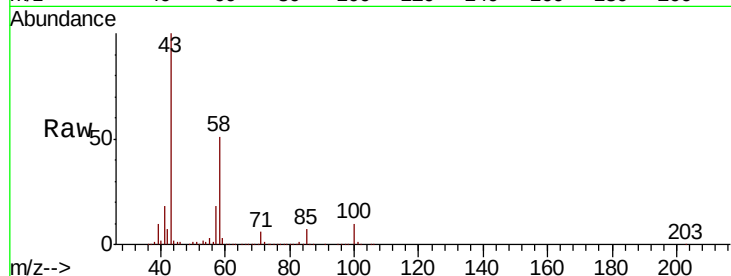




#49
2-Hexanone
Concen: 55.106 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

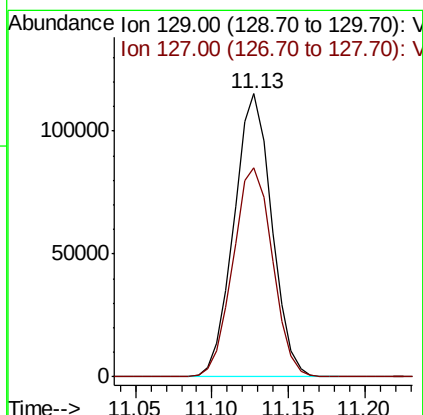
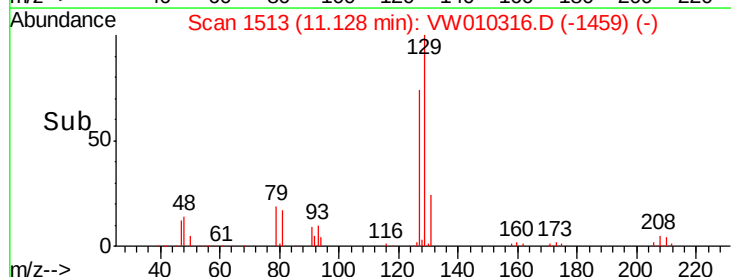
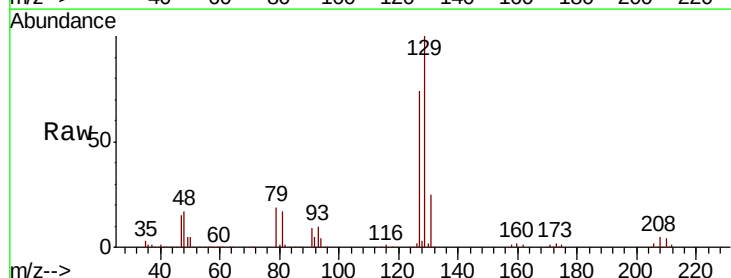
Instrument :
MSVOA_W
ClientSampled :
VSTD02511

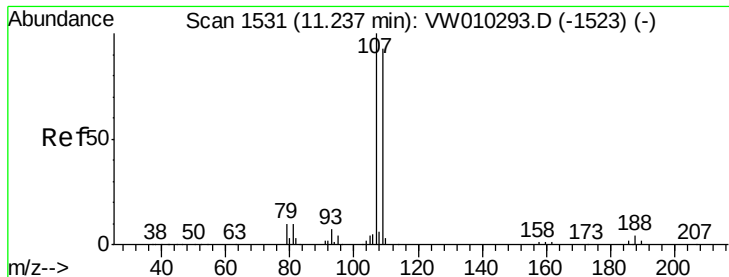
Tgt Ion:	43	Resp:	320556
Ion	Ratio	Lower	Upper
43	100		
58	50.8	39.2	58.8
57	17.9	14.1	21.1
100	10.5	8.6	12.8



#50
Dibromochloromethane
Concen: 26.789 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

Tgt Ion:	129	Resp:	198181
Ion	Ratio	Lower	Upper
129	100		
127	74.1	53.3	99.1

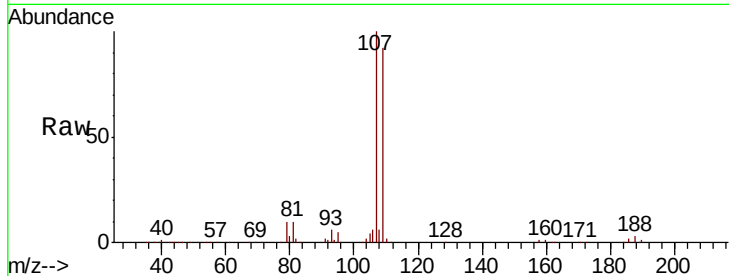




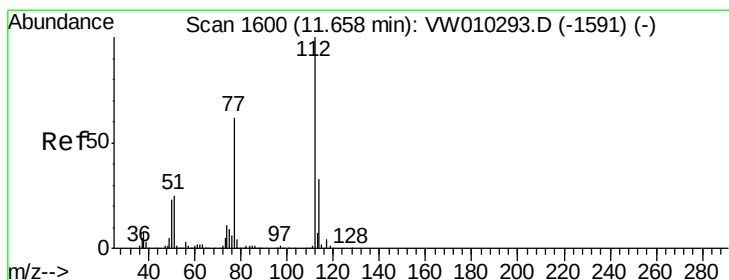
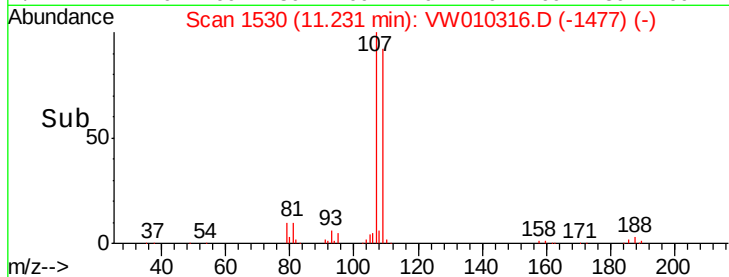
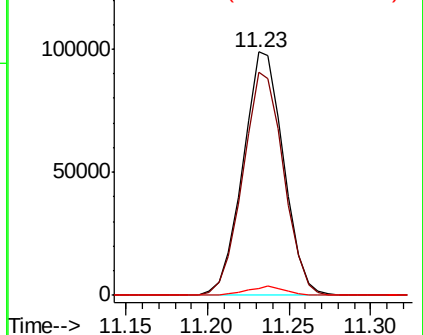
#51
1,2-Dibromoethane
Concen: 27.030 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.01 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

Tgt Ion	Ratio	Lower	Upper
107	100		
109	91.9	65.3	121.3
188	2.9	2.8	4.2

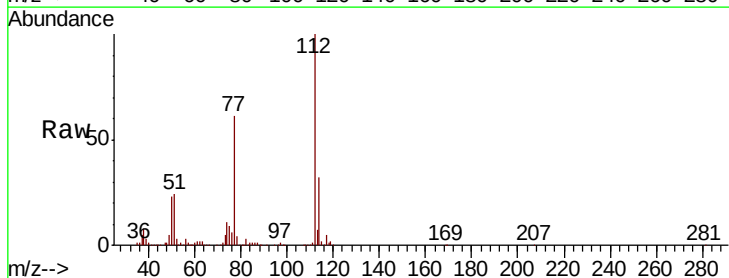


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

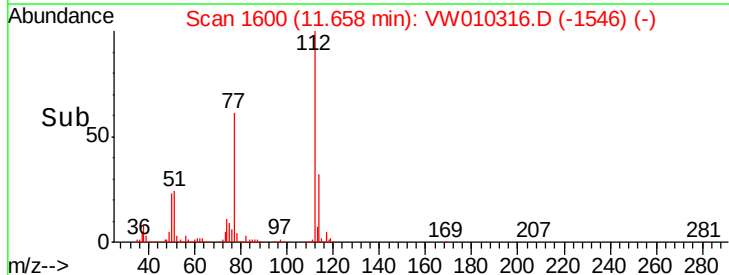
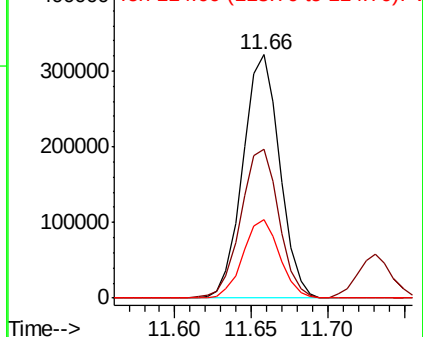


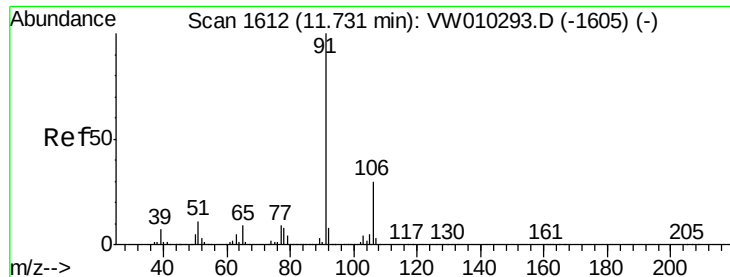
#52
Chlorobenzene
Concen: 24.424 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

Tgt Ion	Ratio	Lower	Upper
112	100		
77	60.9	49.3	73.9
114	32.2	22.9	42.5



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: 24.224 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

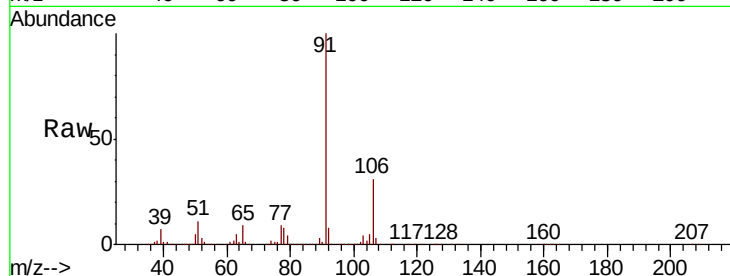
VSTD02511

Tgt Ion: 91 Resp: 955491

Ion Ratio Lower Upper

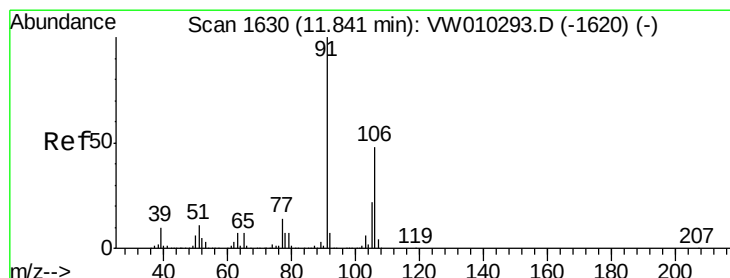
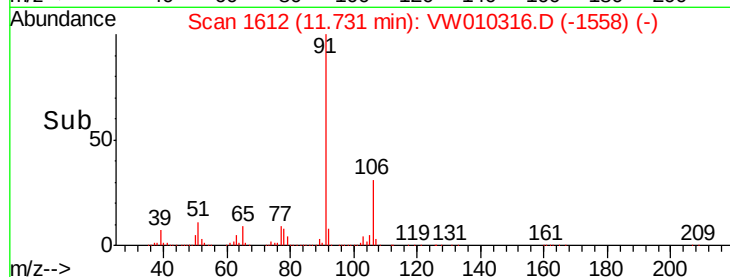
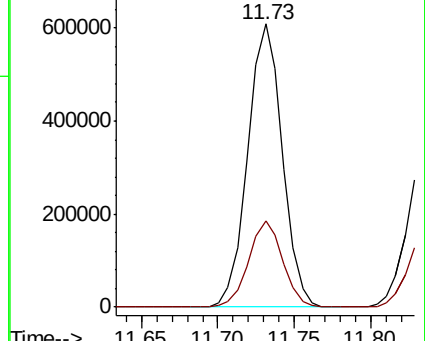
91 100

106 30.5 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: 24.856 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW010316.D

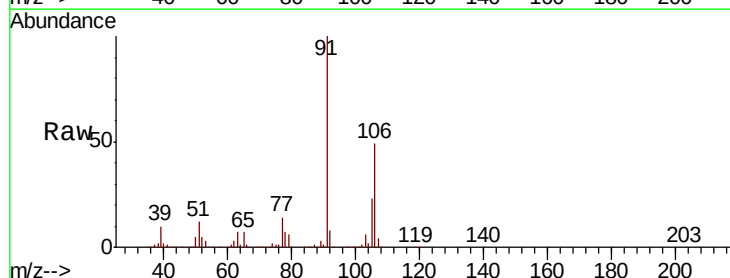
Acq: 08 May 2019 00:40

Tgt Ion: 106 Resp: 356657

Ion Ratio Lower Upper

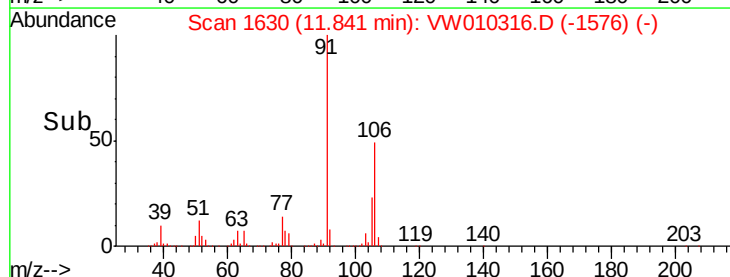
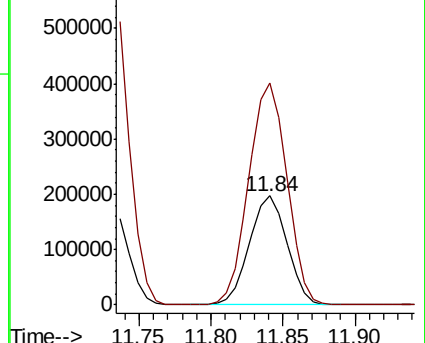
106 100

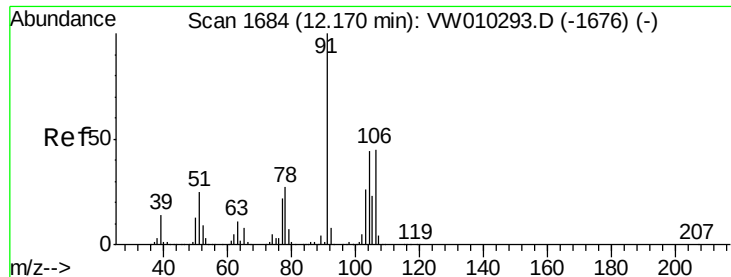
91 203.8 145.5 270.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

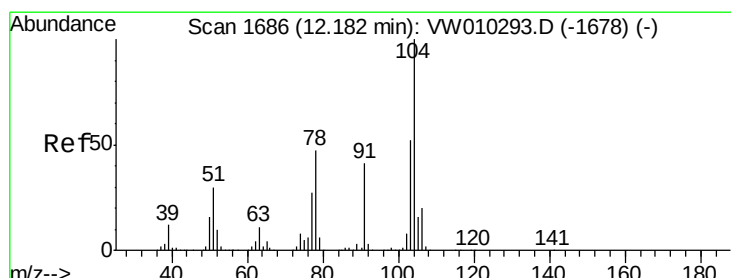
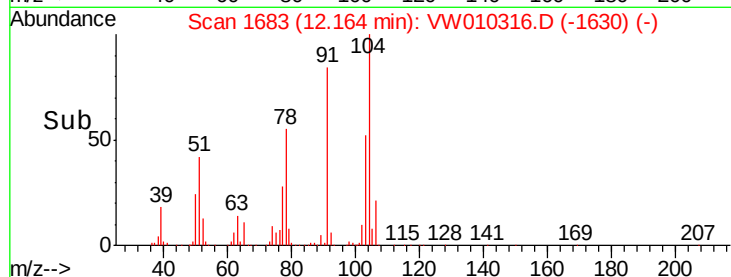
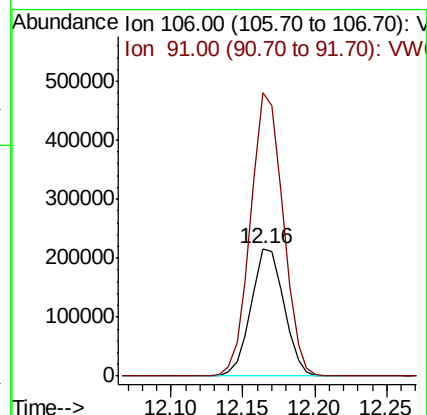
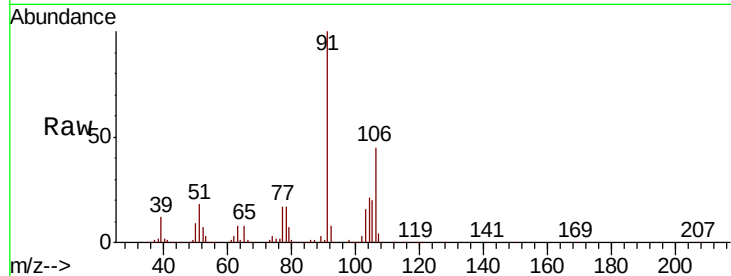




#55
o-xylene
Concen: 25.584 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

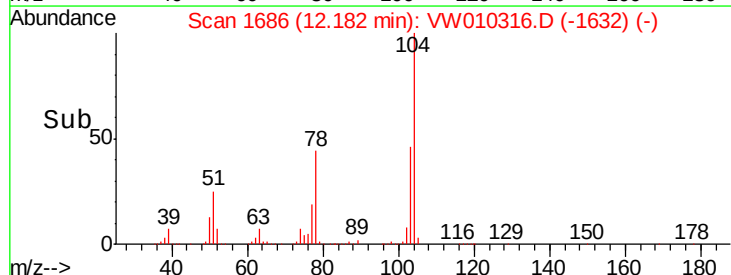
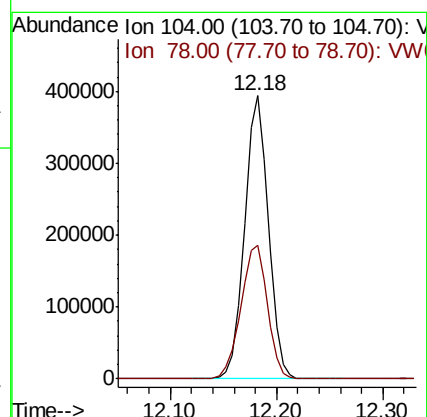
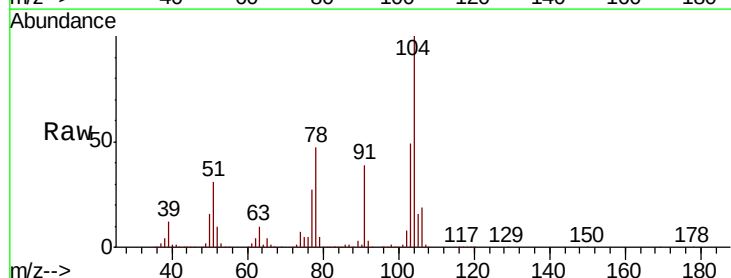
Instrument :
MSVOA_W
ClientSampleId :
VSTD02511

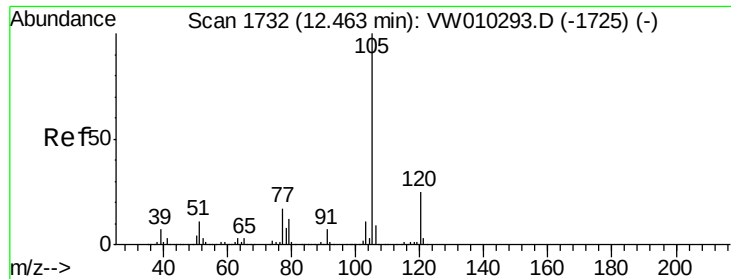
Tgt Ion:106 Resp: 341757
Ion Ratio Lower Upper
106 100
91 222.1 154.6 287.2



#56
Styrene
Concen: 26.876 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW010316.D
Acq: 08 May 2019 00:40

Tgt Ion:104 Resp: 619497
Ion Ratio Lower Upper
104 100
78 47.1 33.3 61.9





#57

Isopropylbenzene

Concen: 24.458 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

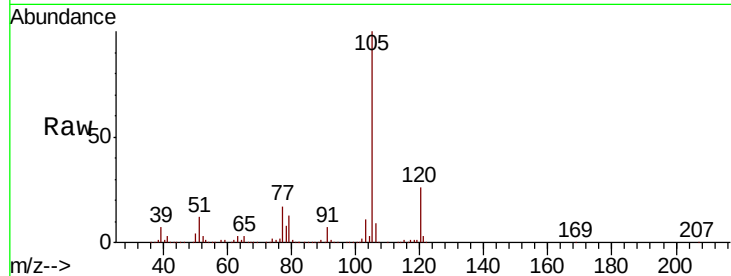
Tgt Ion:105 Resp: 897849

Ion Ratio Lower Upper

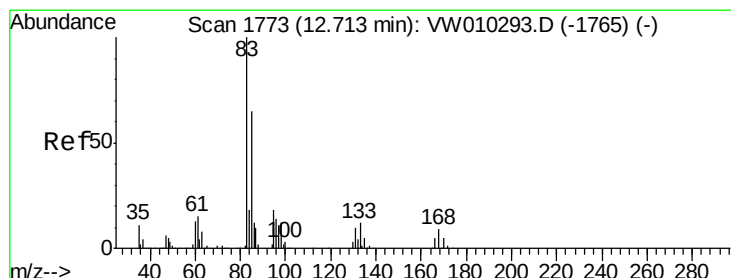
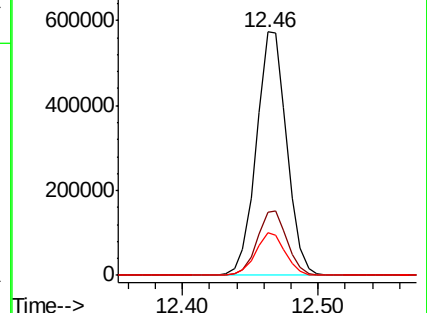
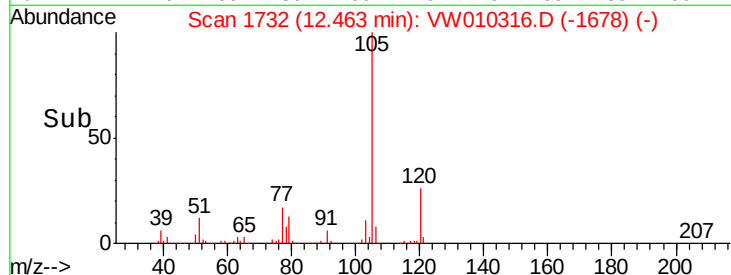
105 100

120 26.3 20.5 30.7

77 17.0 13.5 20.3



Abundance Ion 105.00 (104.70 to 105.70): VW
Ion 120.00 (119.70 to 120.70): VW
Ion 77.00 (76.70 to 77.70): VW



#58

1,1,2,2-Tetrachloroethane

Concen: 26.940 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

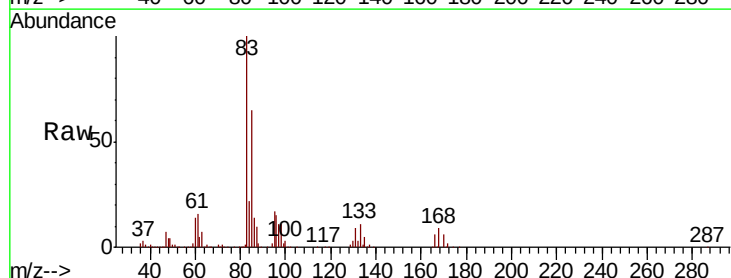
Tgt Ion: 83 Resp: 238119

Ion Ratio Lower Upper

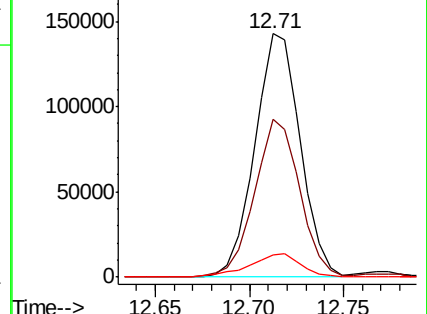
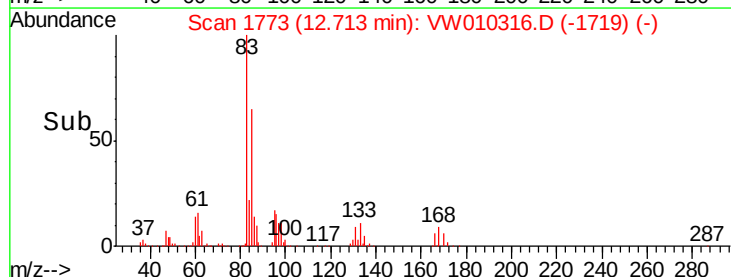
83 100

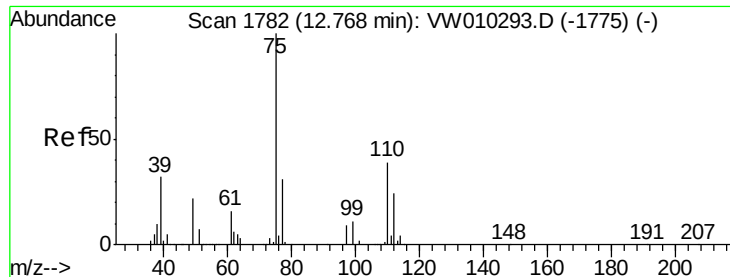
85 64.7 45.6 84.8

131 9.4 8.2 12.4



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: 27.391 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

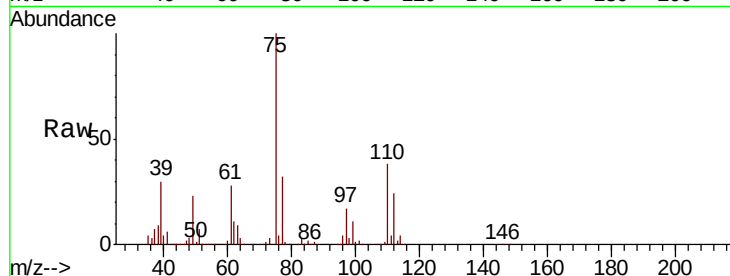
VSTD02511

Tgt Ion: 75 Resp: 185850

Ion Ratio Lower Upper

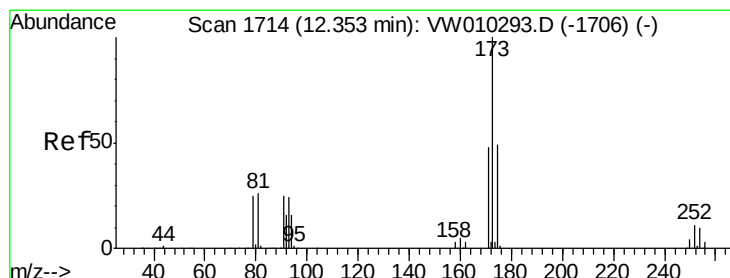
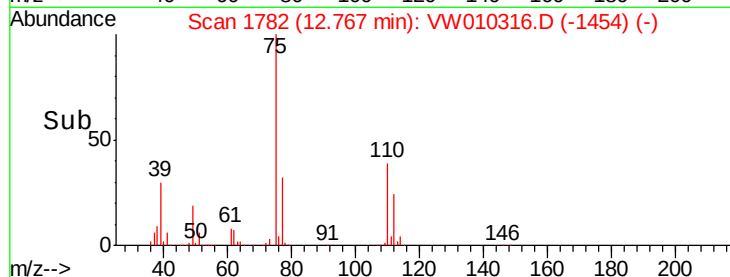
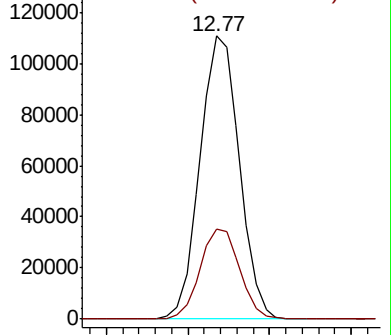
75 100

77 32.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#62

Bromoform

Concen: 25.946 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

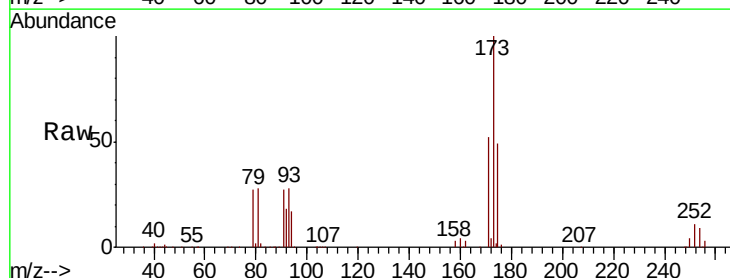
Tgt Ion: 173 Resp: 120204

Ion Ratio Lower Upper

173 100

175 48.3 39.4 59.2

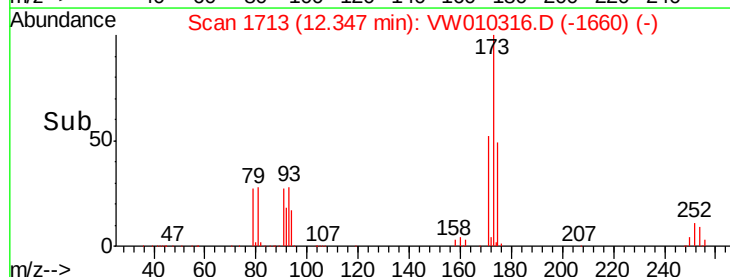
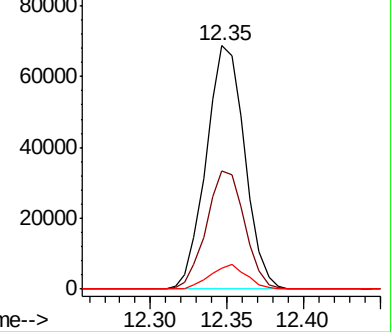
254 9.5 7.5 11.3

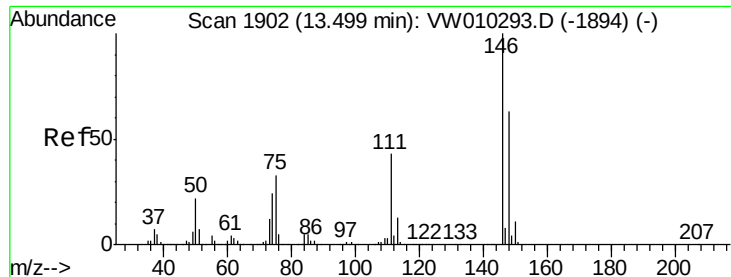


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#63

1,3-Dichlorobenzene

Concen: 24.125 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

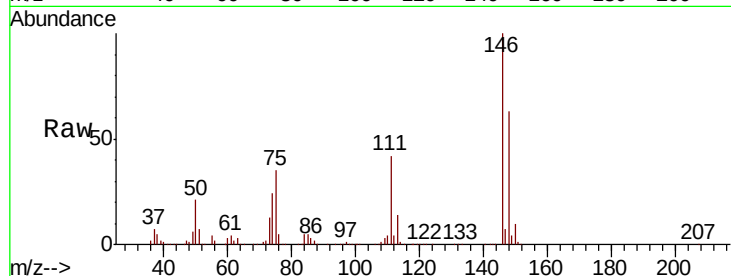
Tgt Ion:146 Resp: 386926

Ion Ratio Lower Upper

146 100

111 41.5 30.0 55.8

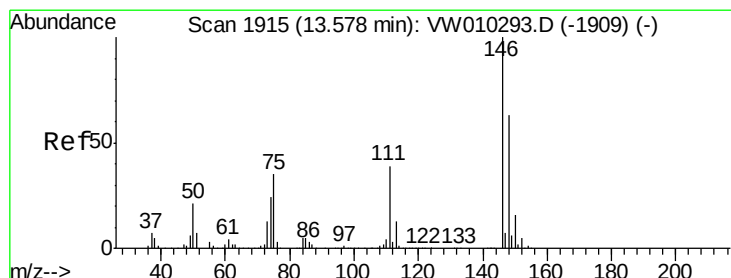
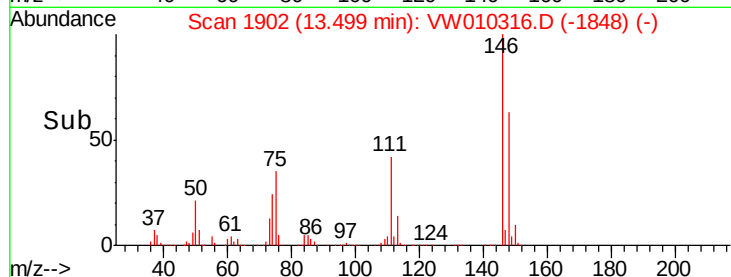
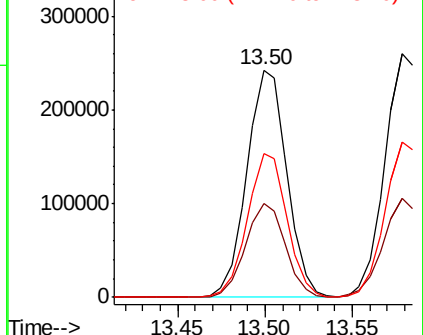
148 63.3 43.9 81.5



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: 24.185 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

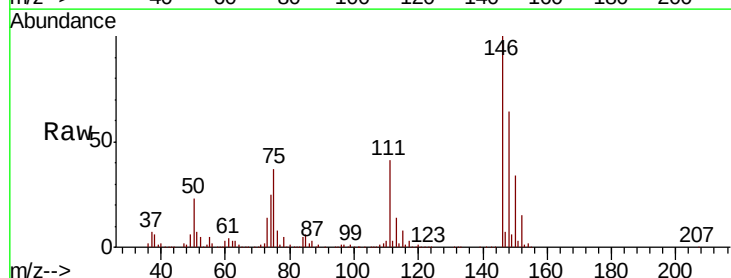
Tgt Ion:146 Resp: 420093

Ion Ratio Lower Upper

146 100

111 40.9 27.4 51.0

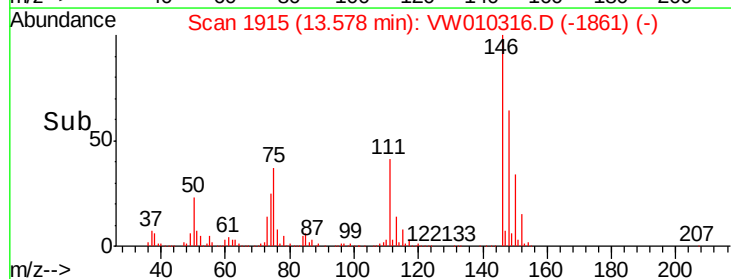
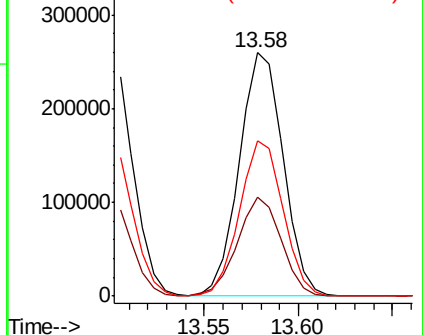
148 63.8 44.0 81.6

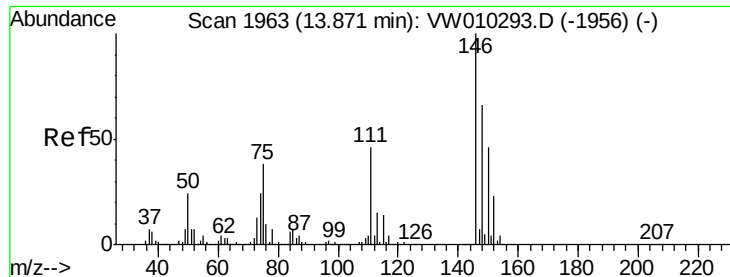


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

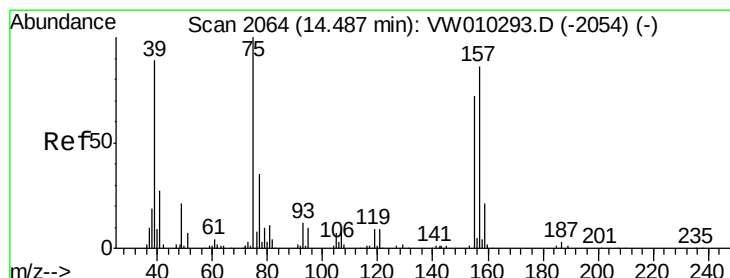
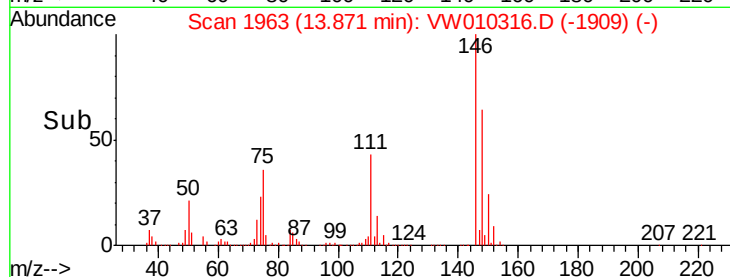
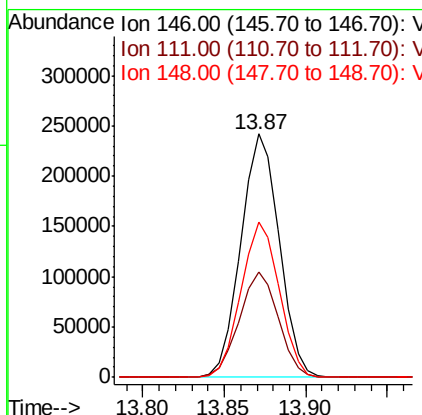
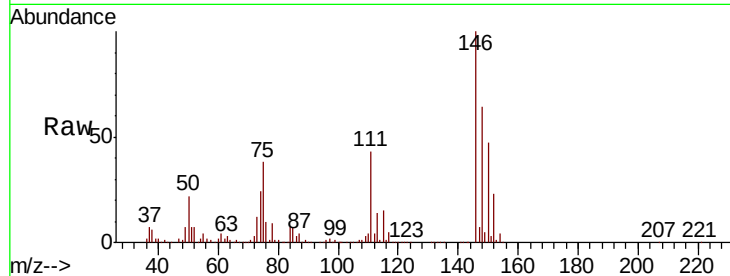




#65
 1,2-Dichlorobenzene
 Concen: 25.720 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW010316.D
 Acq: 08 May 2019 00:40

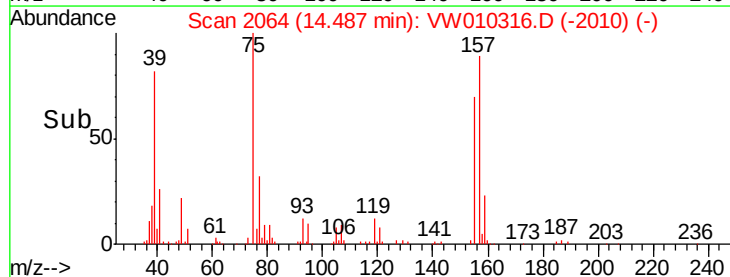
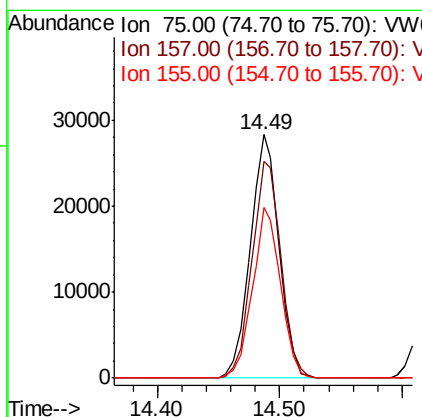
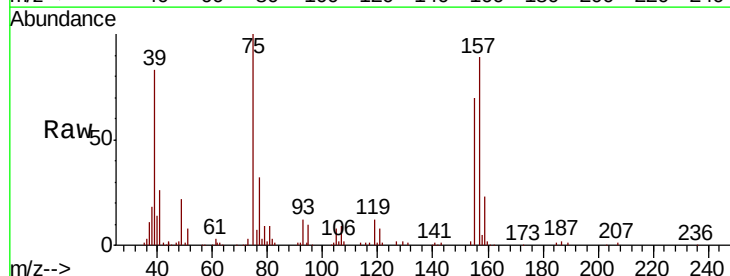
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02511

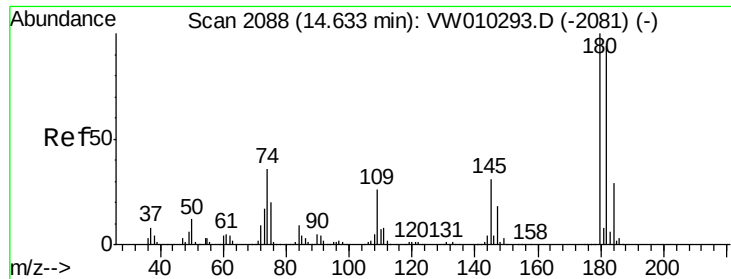
Tgt Ion: 146 Resp: 396891
 Ion Ratio Lower Upper
 146 100
 111 43.0 36.8 55.2
 148 63.7 52.9 79.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 25.086 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW010316.D
 Acq: 08 May 2019 00:40

Tgt Ion: 75 Resp: 46130
 Ion Ratio Lower Upper
 75 100
 157 88.8 68.6 103.0
 155 70.2 57.3 85.9

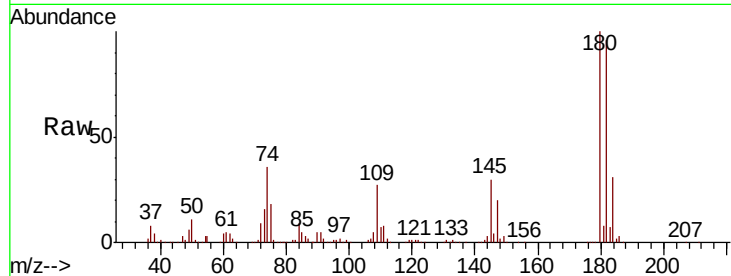




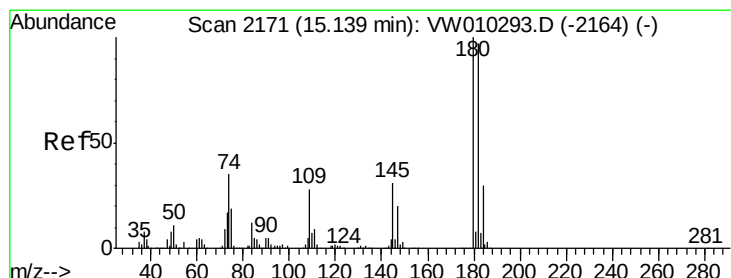
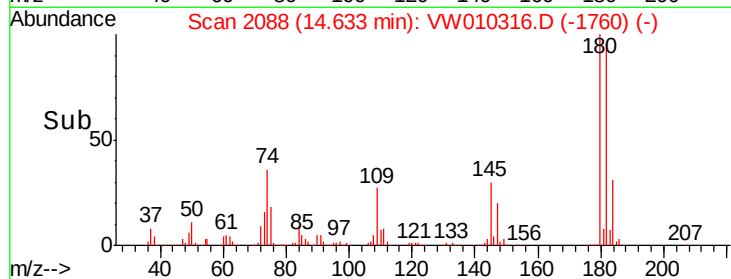
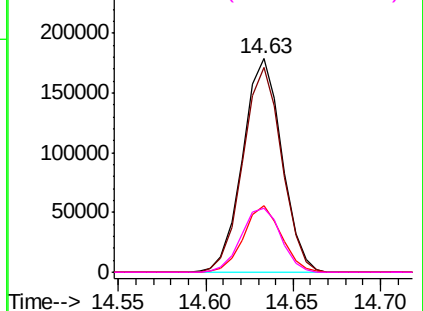
#67
 1,3,5-Trichlorobenzene
 Concen: 23.205 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW010316.D
 Acq: 08 May 2019 00:40

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02511

Tgt Ion:180 Resp: 278774
 Ion Ratio Lower Upper
 180 100
 182 94.8 75.4 113.0
 184 30.2 23.8 35.8
 145 30.7 24.6 36.8

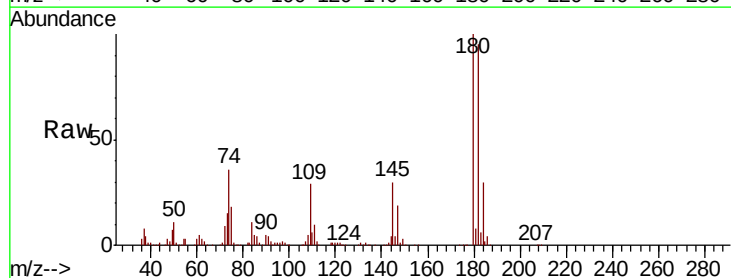


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

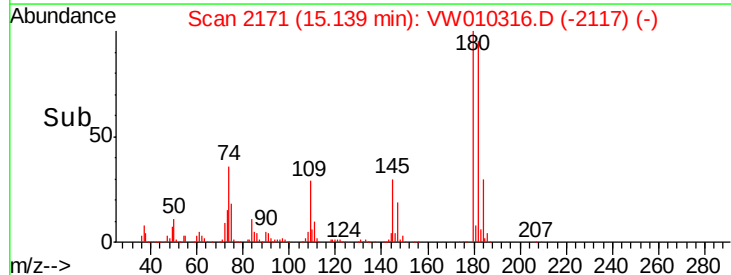
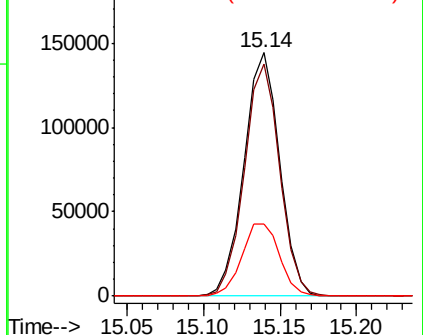


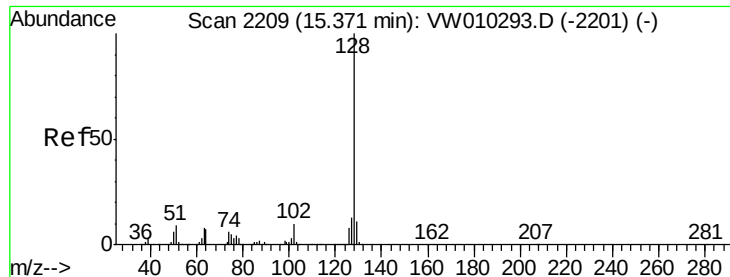
#68
 1,2,4-trichlorobenzene
 Concen: 24.648 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW010316.D
 Acq: 08 May 2019 00:40

Tgt Ion:180 Resp: 234343
 Ion Ratio Lower Upper
 180 100
 182 94.5 77.0 115.6
 145 31.6 25.0 37.4



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





#69

Naphthalene

Concen: 29.117 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

Instrument :

MSVOA_W

ClientSampleId :

VSTD02511

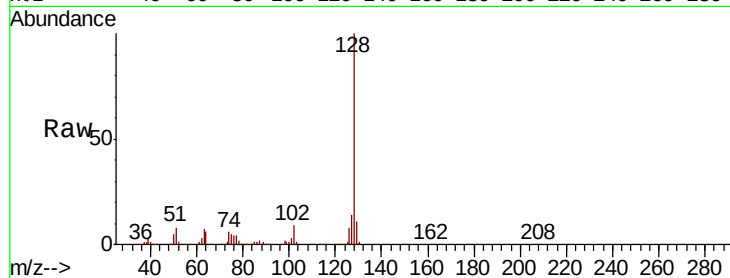
Tgt Ion:128 Resp: 624314

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

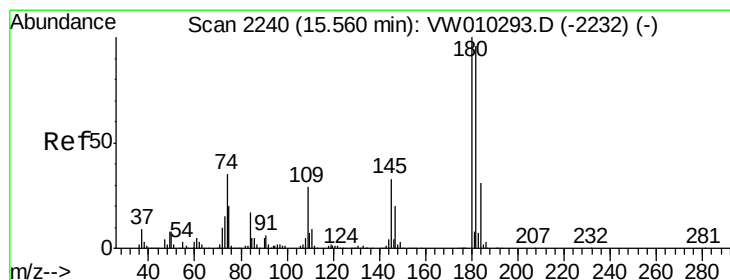
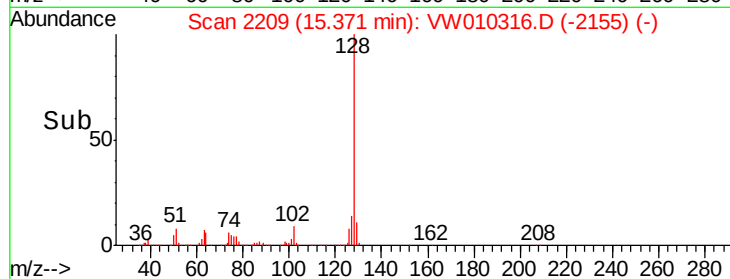
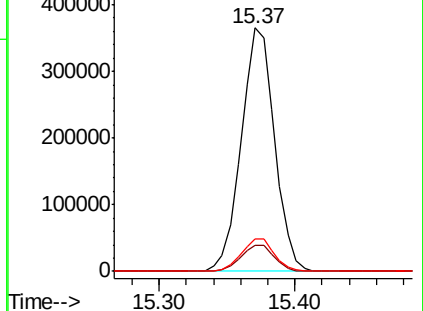
127 13.4 10.8 16.2



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: 26.719 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW010316.D

Acq: 08 May 2019 00:40

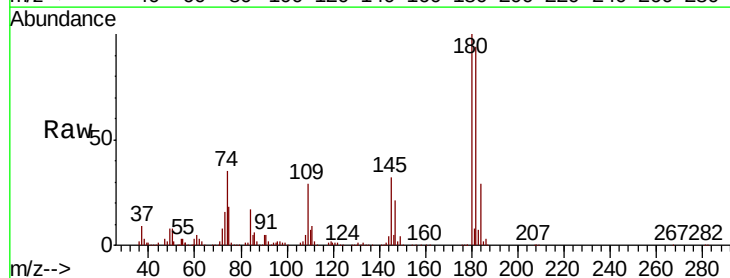
Tgt Ion:180 Resp: 244016

Ion Ratio Lower Upper

180 100

182 96.3 75.8 113.6

145 32.7 26.7 40.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

