

Data File : VW014443.D
Acq On : 18 Dec 2019 19:49
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02526

Quant Time: Dec 19 01:11:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 19 01:06:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1086066	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1001559	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	489883	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	298895	18.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.68%
7) Chloroethane-d5	2.88	69	271325	22.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.76%
10) 1,1-Dichloroethene-d2	4.02	63	638283	21.97	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.88%
20) 2-Butanone-d5	7.07	46	238965	55.76	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.52%
24) Chloroform-d	7.65	84	714159	25.83	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.32%
26) 1,2-Dichloroethane-d4	8.30	65	386032	26.63	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.52%
29) Benzene-d6	8.27	84	1418019	24.16	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.64%
33) 1,2-Dichloropropane-d6	9.27	67	457021	25.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.24%
37) Toluene-d8	10.32	98	1282681	24.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.68%
38) trans-1,3-Dichloropropene-	10.57	79	180636	23.84	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.36%
39) 2-Hexanone-d5	10.92	63	193797	53.97	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.94%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	386295	26.25	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	105.00%
61) 1,2-Dichlorobenzene-d4	13.85	152	450488	24.07	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.28%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	221168	21.411	ug/L	97
3) Chloromethane	2.21	50	237997	22.919	ug/L	96
5) Vinyl chloride	2.36	62	374890	24.382	ug/L	96
6) Bromomethane	2.78	94	222736	23.485	ug/L	99
8) Chloroethane	2.92	64	220539	25.107	ug/L	98
9) Trichlorofluoromethane	3.25	101	186834	24.546	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	354580	24.752	ug/L	93
12) 1,1-Dichloroethene	4.04	96	344005	23.719	ug/L	85
13) Acetone	4.12	43	164389	39.784	ug/L	98
14) Carbon disulfide	4.38	76	1001004	22.504	ug/L	99
15) Methyl Acetate	4.67	43	192260	24.599	ug/L	97
16) Methylene chloride	4.92	84	400331	24.045	ug/L	93
17) Methyl tert-butyl Ether	5.42	73	470425	24.596	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	370420	23.850	ug/L	90
19) 1,1-Dichloroethane	6.21	63	706596	25.322	ug/L	99
21) 2-Butanone	7.16	43	253394	45.677	ug/L	97
22) cis-1,2-Dichloroethene	7.16	96	402883	24.378	ug/L	96

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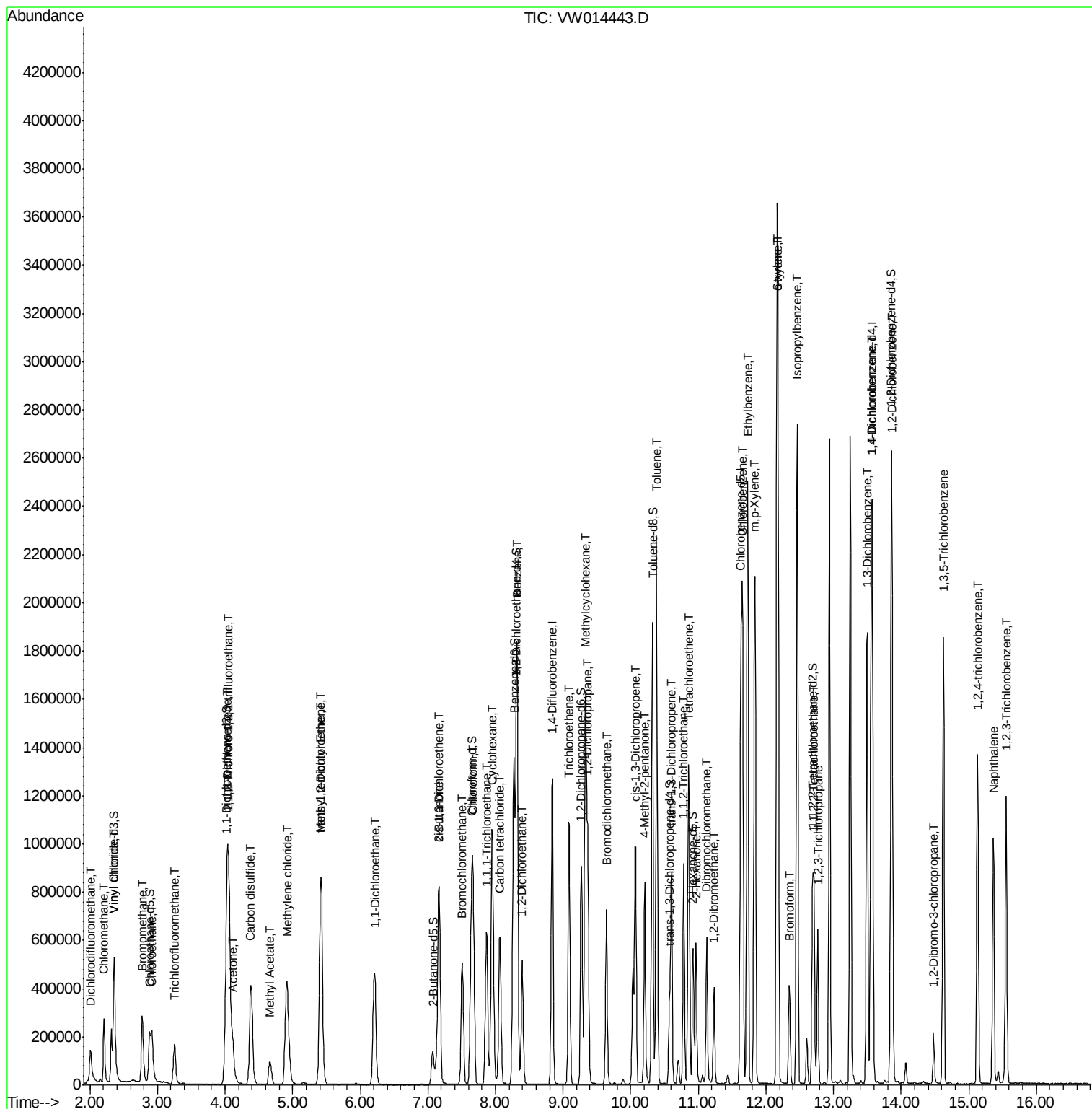
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	180031	23.682	ug/L	87
25) Chloroform	7.67	83	694812	25.623	ug/L	99
27) 1,2-Dichloroethane	8.40	62	451398	25.422	ug/L	96
30) Cyclohexane	7.95	56	615401	24.617	ug/L	96
31) 1,1,1-Trichloroethane	7.87	97	514696	25.589	ug/L	97
32) Carbon tetrachloride	8.07	117	478738	25.084	ug/L	100
34) Benzene	8.32	78	1579745	24.911	ug/L	100
35) Trichloroethene	9.09	95	393493	24.251	ug/L	94
36) Methylcyclohexane	9.34	83	661174	24.249	ug/L	95
40) 1,2-Dichloropropane	9.37	63	404905	24.853	ug/L	99
41) Bromodichloromethane	9.64	83	492126	24.856	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	603303	24.727	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	545301	50.758	ug/L	97
44) Toluene	10.38	91	1670065	25.119	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	488040	24.711	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	295315	24.189	ug/L	98
47) Tetrachloroethene	10.86	164	319464	23.622	ug/L	97
49) 2-Hexanone	10.96	43	380349	49.728	ug/L	98
50) Dibromochloromethane	11.13	129	331788	24.215	ug/L	96
51) 1,2-Dibromoethane	11.23	107	275048	23.785	ug/L	97
52) Chlorobenzene	11.65	112	1036046	24.111	ug/L	93
53) Ethylbenzene	11.73	91	1816215	25.176	ug/L	98
54) m,p-Xylene	11.83	106	692588	24.957	ug/L	98
55) o-xylene	12.16	106	657422	24.976	ug/L	99
56) Styrene	12.18	104	1158780	25.733	ug/L	96
57) Isopropylbenzene	12.46	105	1744940	25.535	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	361484	23.856	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	270108	23.989	ug/L	100
62) Bromoform	12.35	173	194385	23.379	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	793983	24.114	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	803725	24.025	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	738037	24.103	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	55373	23.443	ug/L	85
67) 1,3,5-Trichlorobenzene	14.63	180	586463	24.756	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	454576	24.614	ug/L	99
69) Naphthalene	15.36	128	872585	25.125	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	423624	24.461	ug/L	97

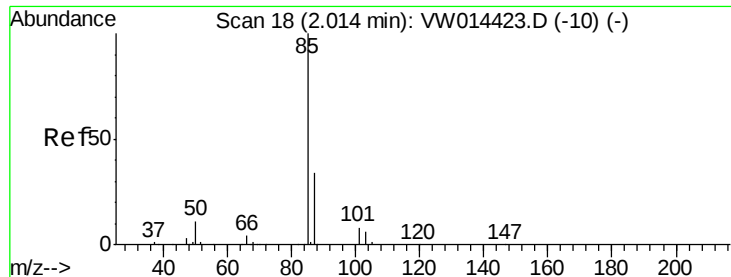
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.411 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

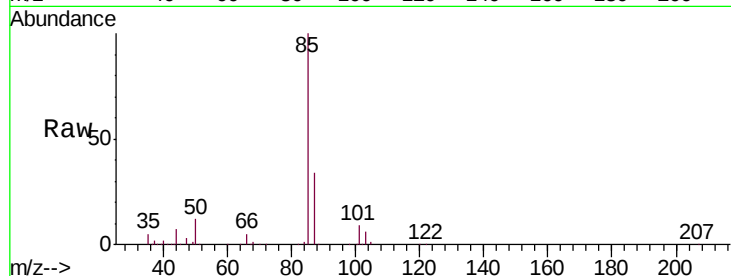
VSTD02526

Tgt Ion: 85 Resp: 221168

Ion Ratio Lower Upper

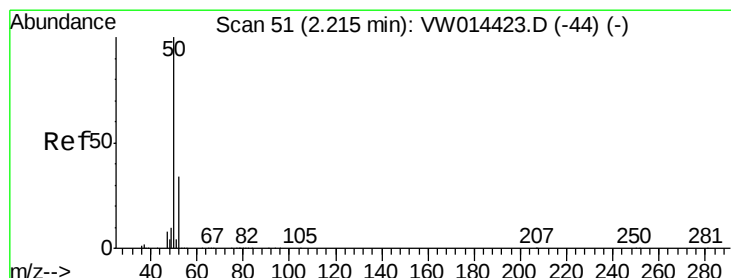
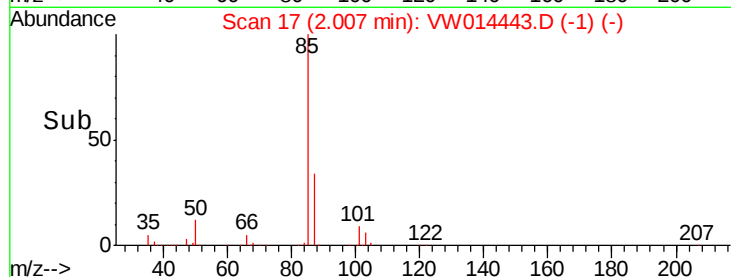
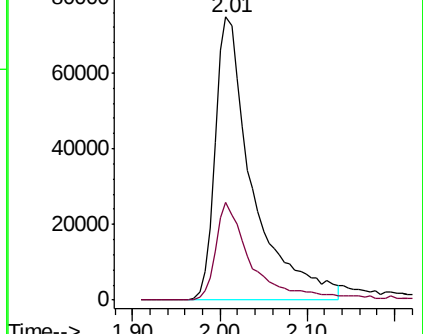
85 100

87 29.7 22.1 41.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 22.919 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014443.D

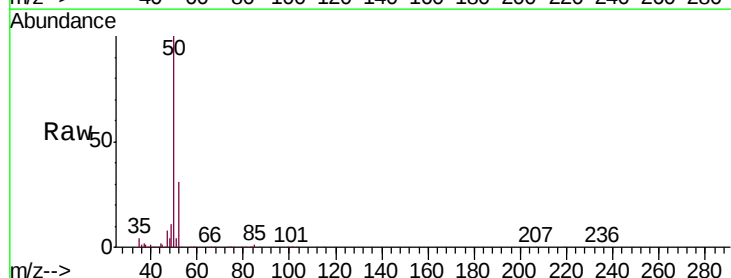
Acq: 18 Dec 2019 19:49

Tgt Ion: 50 Resp: 237997

Ion Ratio Lower Upper

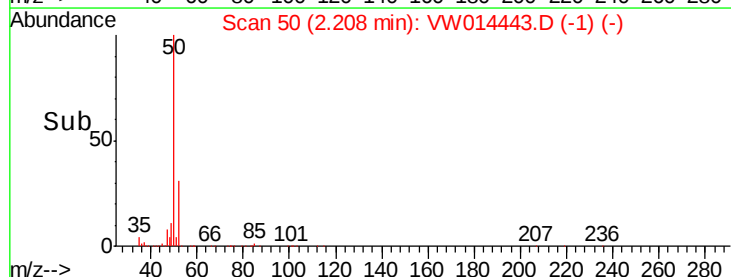
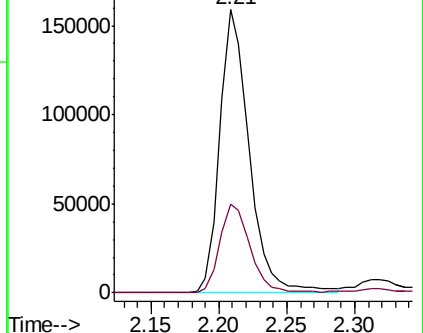
50 100

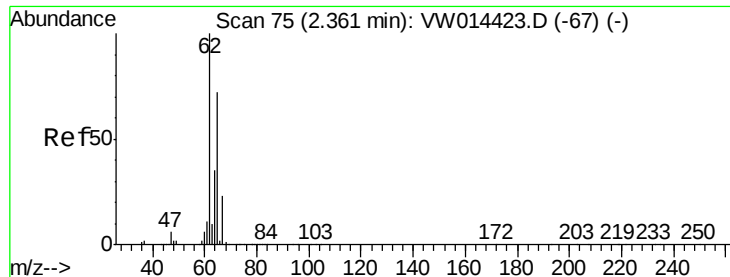
52 31.4 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.382 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014443.D

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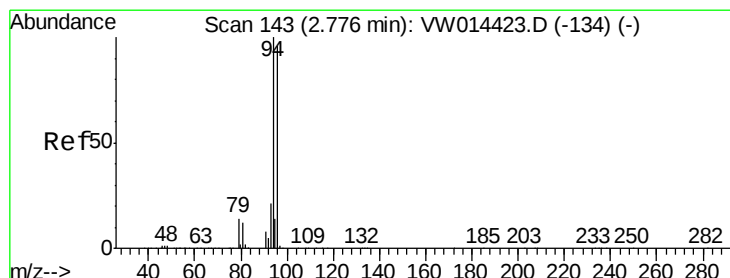
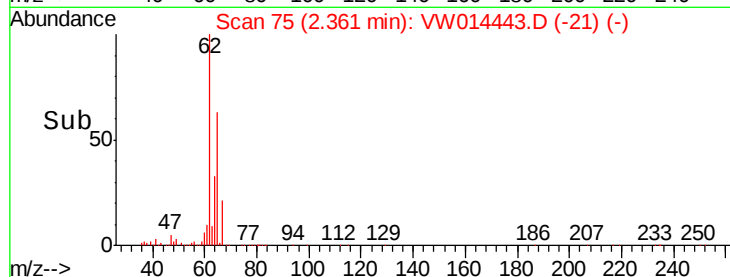
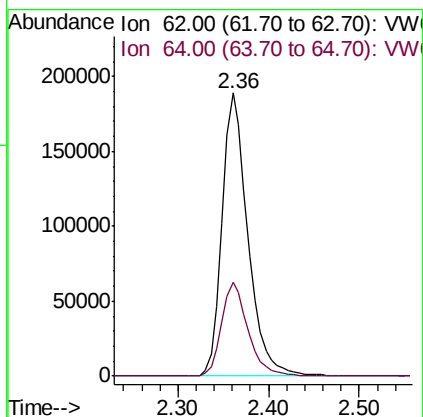
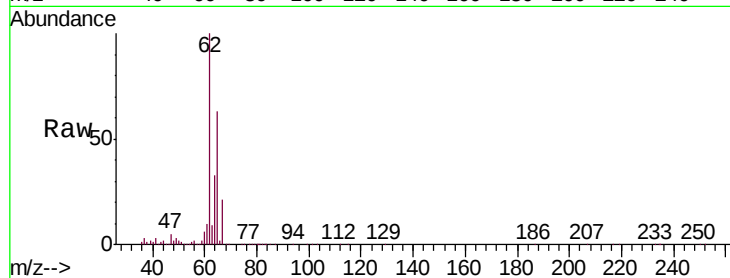
VSTD02526

Tgt Ion: 62 Resp: 374890

Ion Ratio Lower Upper

62 100

64 33.4 21.8 40.4



#6

Bromomethane

Concen: 23.485 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW014443.D

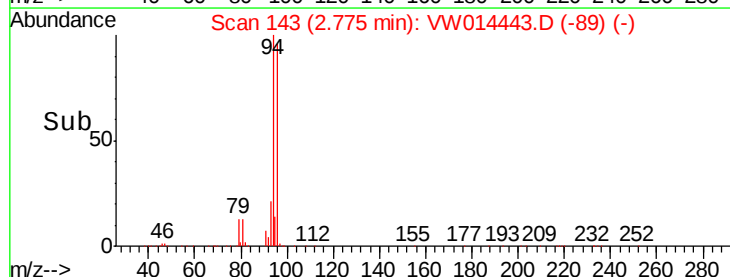
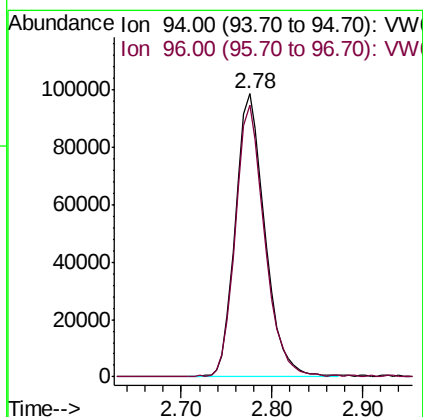
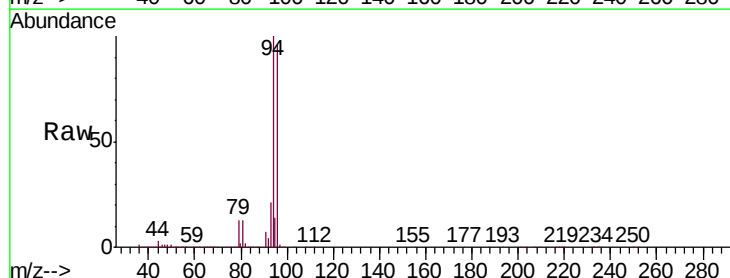
Acq: 18 Dec 2019 19:49

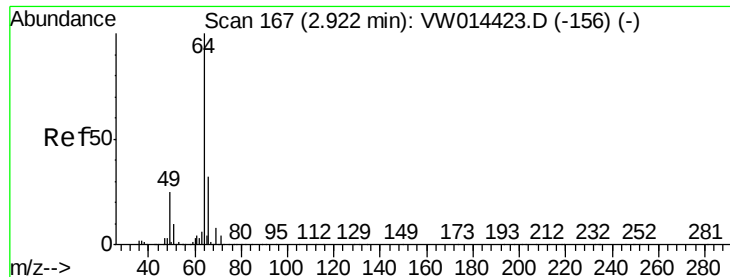
Tgt Ion: 94 Resp: 222736

Ion Ratio Lower Upper

94 100

96 94.9 9.4 178.8

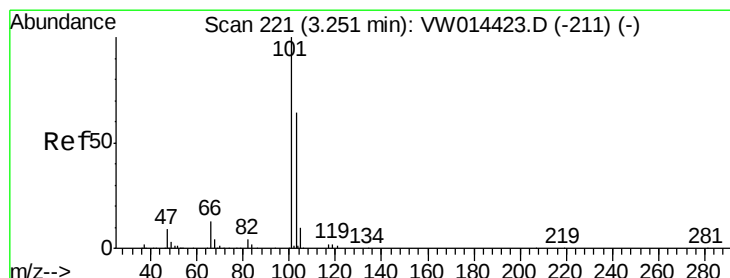
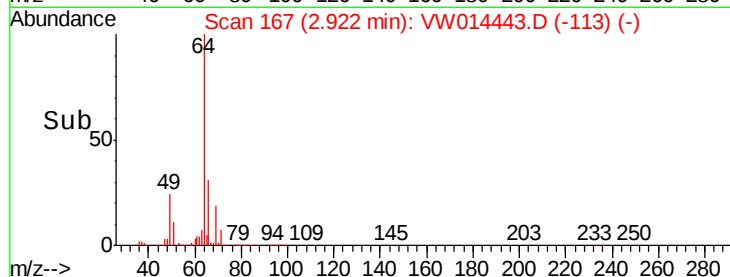
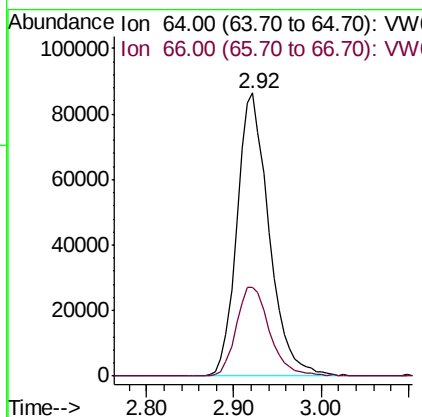
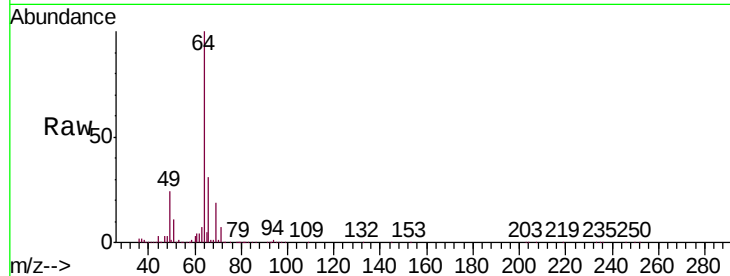




#8
Chloroethane
Concen: 25.107 ug/L
RT: 2.92 min Scan# 167
Delta R.T. -0.00 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

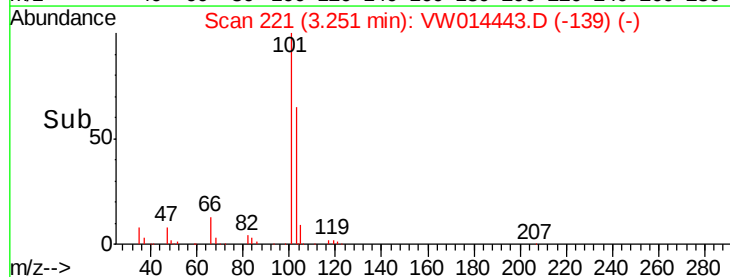
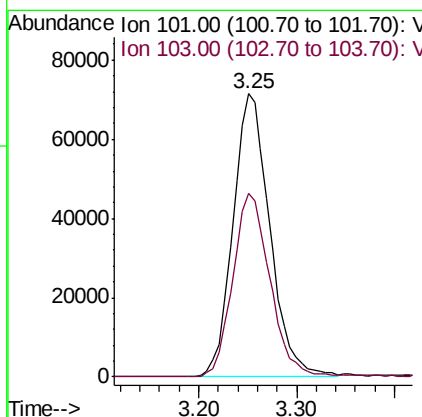
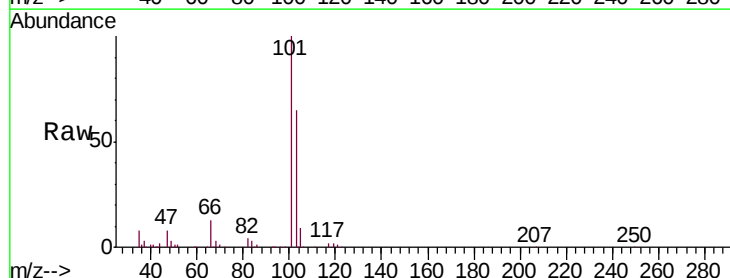
Instrument :
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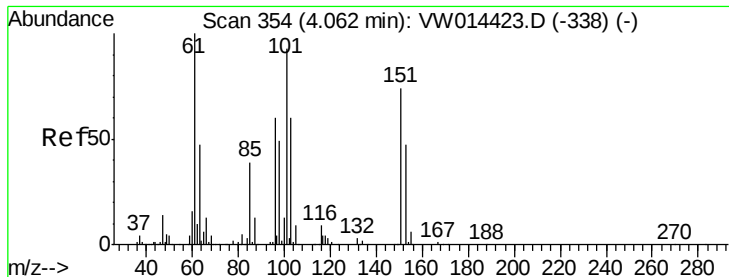
Tgt Ion: 64 Resp: 220539
Ion Ratio Lower Upper
64 100
66 31.5 21.2 39.4



#9
Trichlorofluoromethane
Concen: 24.546 ug/L
RT: 3.25 min Scan# 221
Delta R.T. -0.00 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

Tgt Ion: 101 Resp: 186834
Ion Ratio Lower Upper
101 100
103 65.4 45.4 84.2





#11

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

Concen: 24.752 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

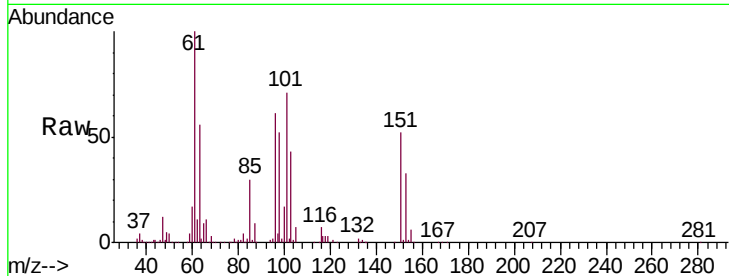
Tgt Ion:101 Resp: 354580

Ion Ratio Lower Upper

101 100

85 42.3 31.4 47.2

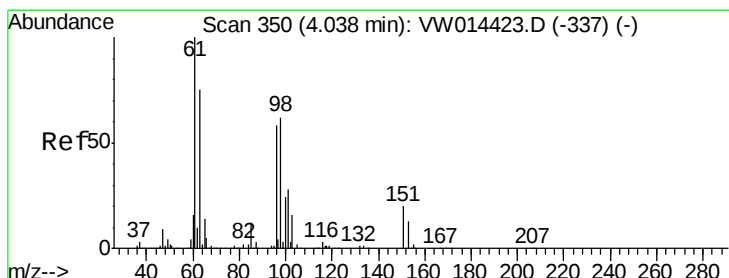
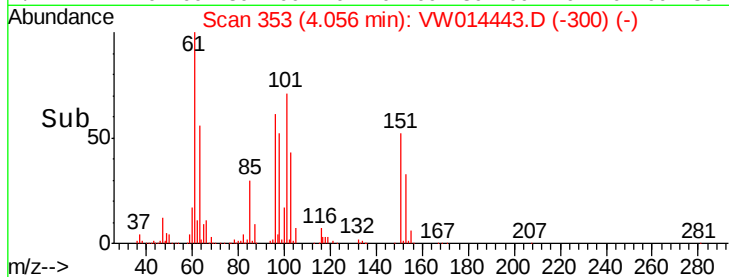
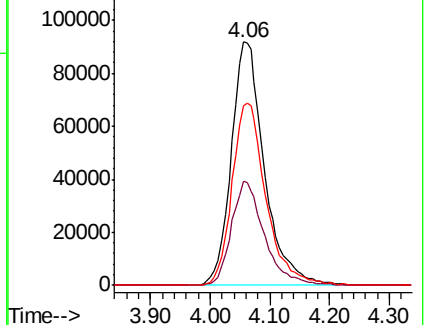
151 75.9 66.9 100.3



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: 23.719 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW014443.D

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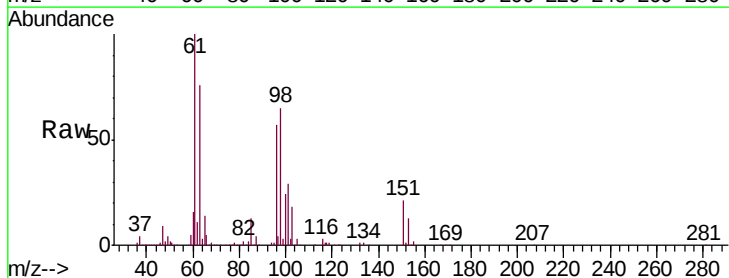
Tgt Ion: 96 Resp: 344005

Ion Ratio Lower Upper

96 100

61 176.1 109.8 204.0

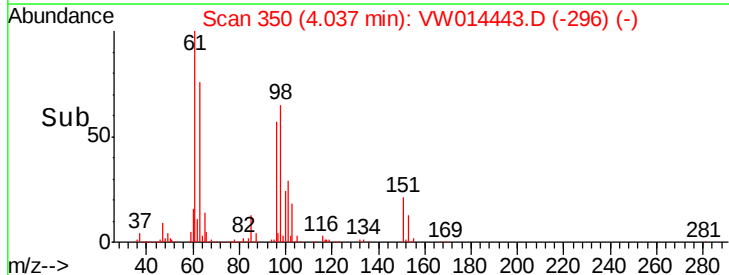
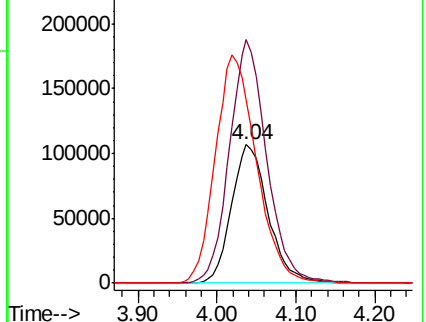
63 133.0 80.7 149.9

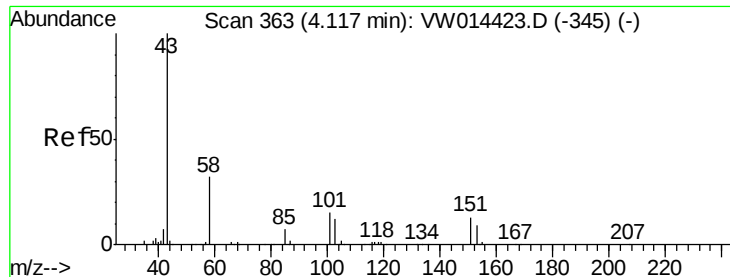


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 39.784 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

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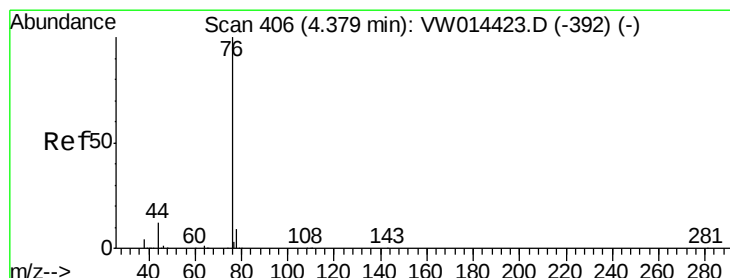
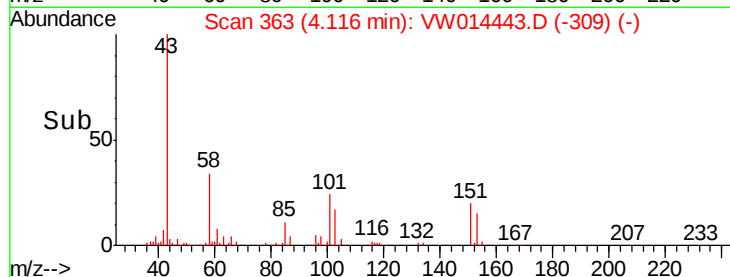
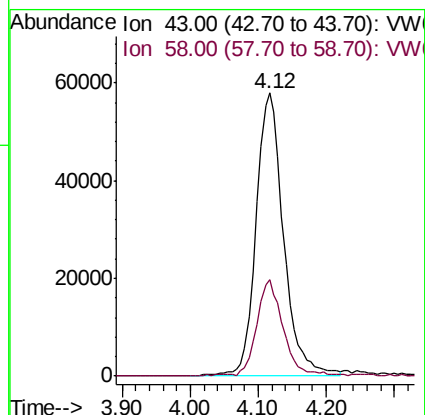
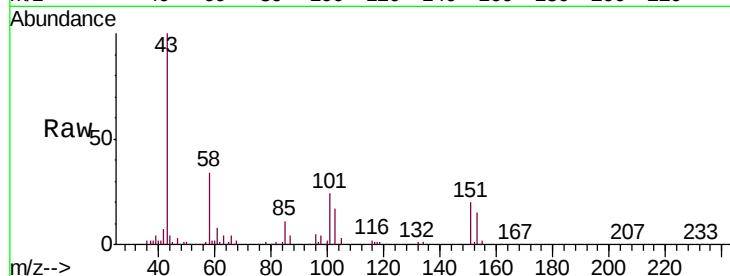
VSTD02526

Tgt Ion: 43 Resp: 164389

Ion Ratio Lower Upper

43 100

58 31.5 0.0 65.4



#14

Carbon disulfide

Concen: 22.504 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

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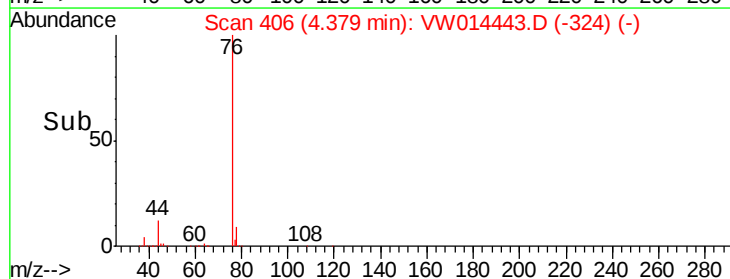
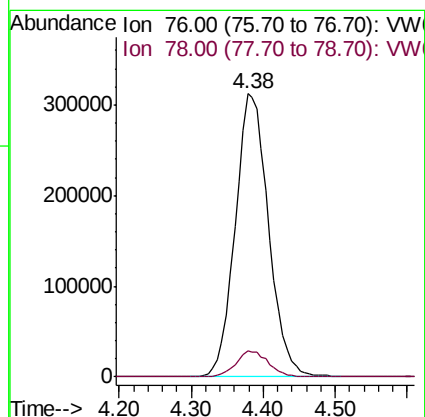
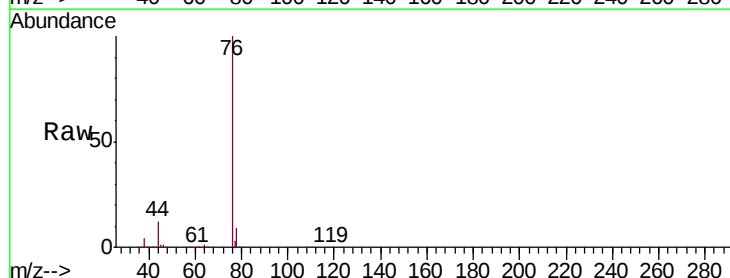
Acq: 18 Dec 2019 19:49

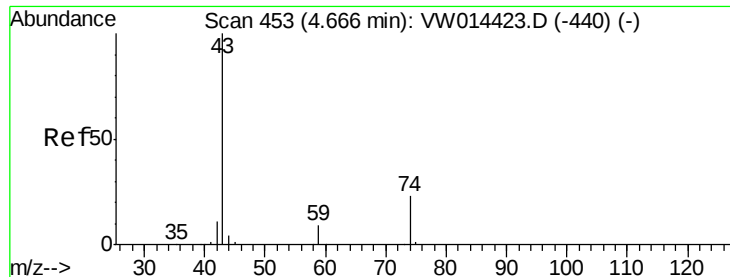
Tgt Ion: 76 Resp: 1001004

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8





#15

Methyl Acetate

Concen: 24.599 ug/L

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

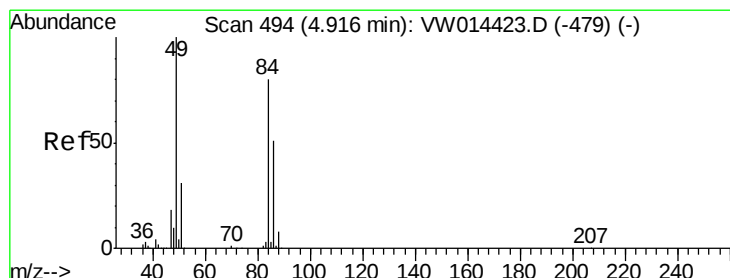
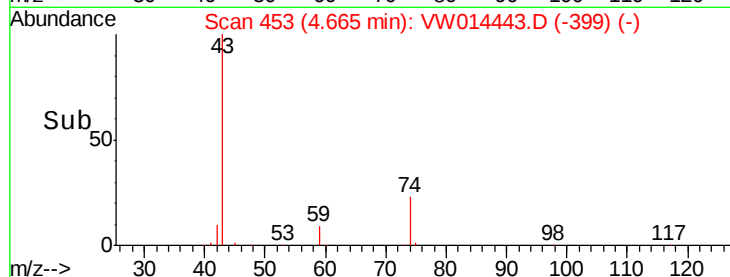
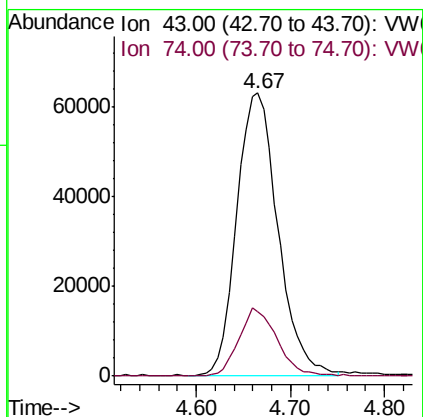
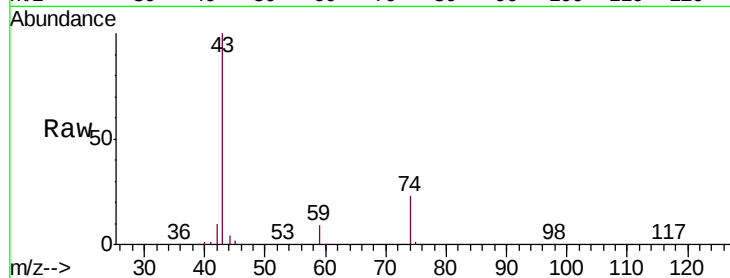
VSTD02526

Tgt Ion: 43 Resp: 192260

Ion Ratio Lower Upper

43 100

74 22.4 19.3 28.9



#16

Methylene chloride

Concen: 24.045 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

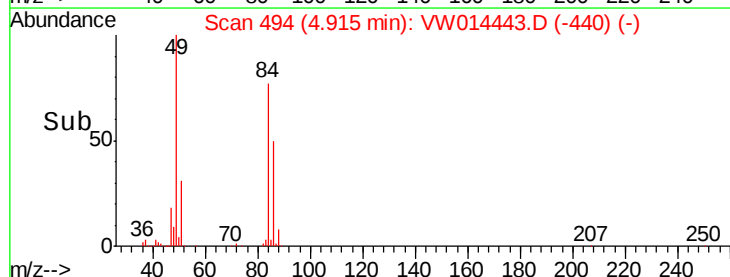
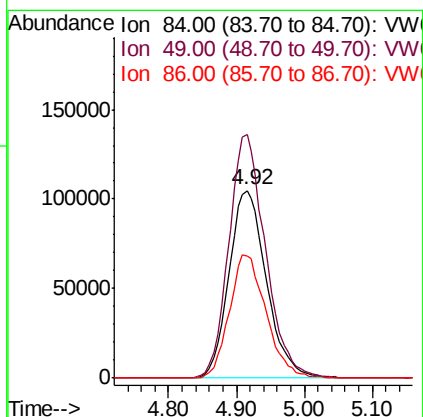
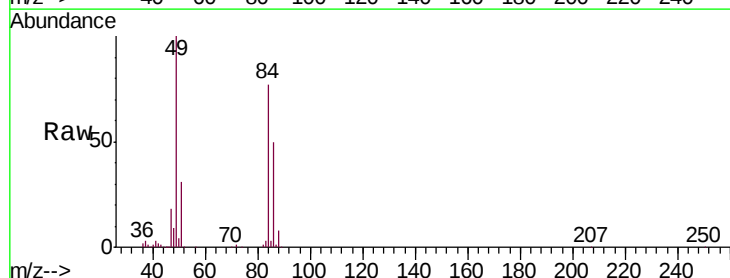
Tgt Ion: 84 Resp: 400331

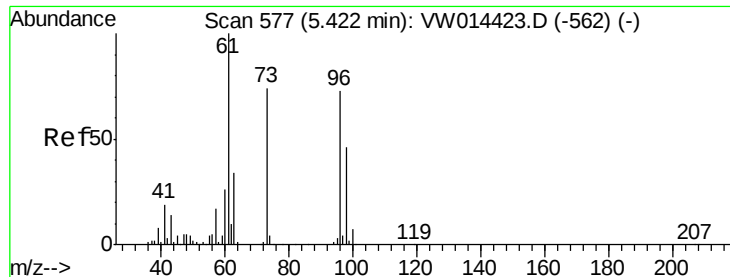
Ion Ratio Lower Upper

84 100

49 129.7 84.2 156.4

86 64.8 43.7 81.1

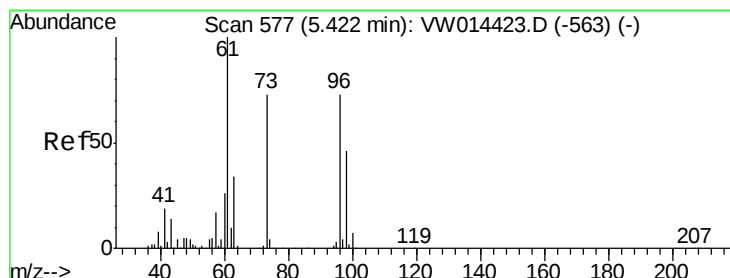
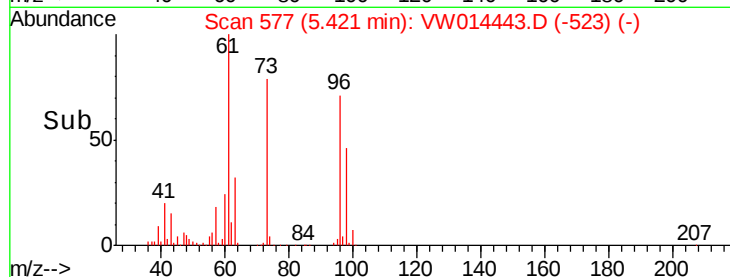
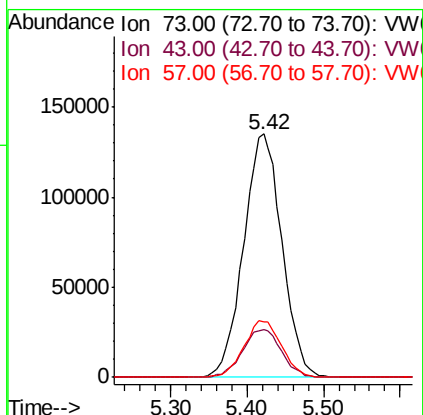
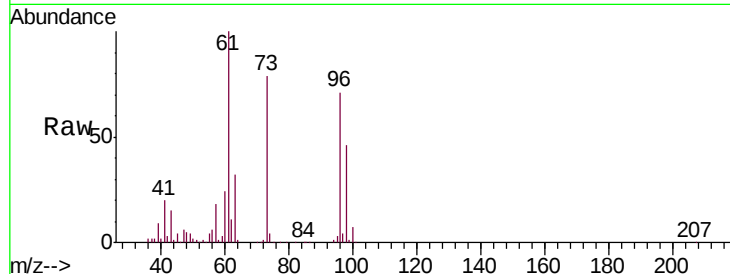




#17
Methyl tert-butyl Ether
Concen: 24.596 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

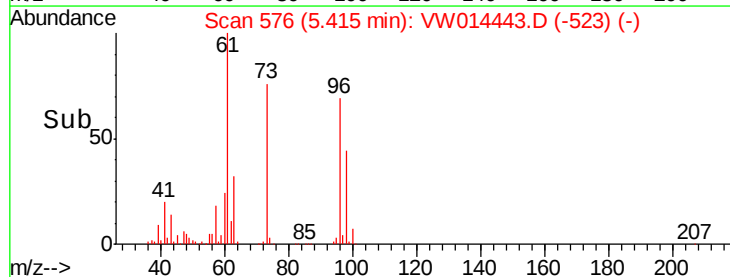
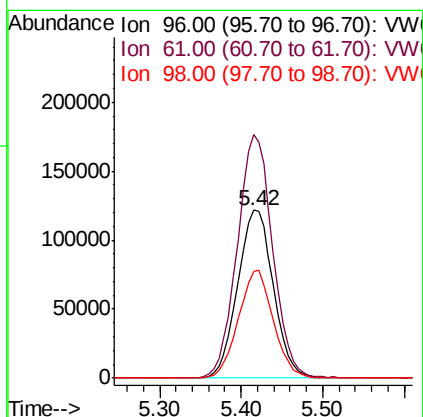
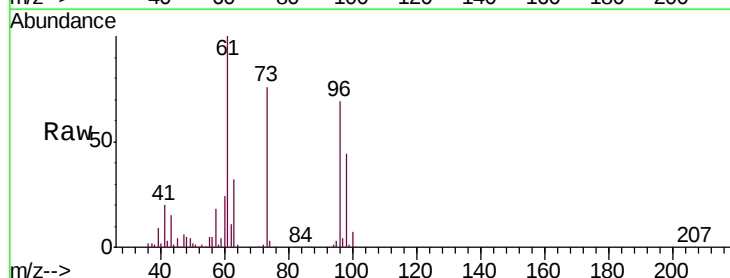
Instrument :
MSVOA_W
ClientSampleId :
VSTD02526

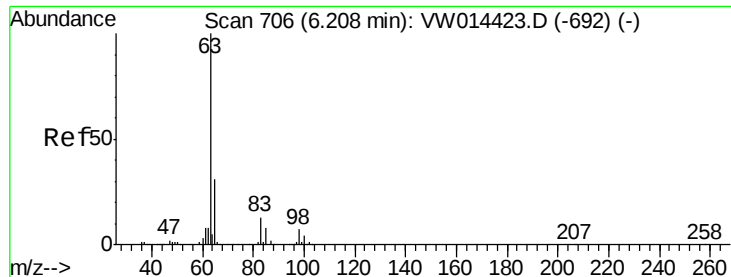
Tgt Ion: 73 Resp: 470425
Ion Ratio Lower Upper
73 100
43 20.1 15.5 23.3
57 22.8 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 23.850 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

Tgt Ion: 96 Resp: 370420
Ion Ratio Lower Upper
96 100
61 145.1 90.6 168.2
98 63.9 42.9 79.7

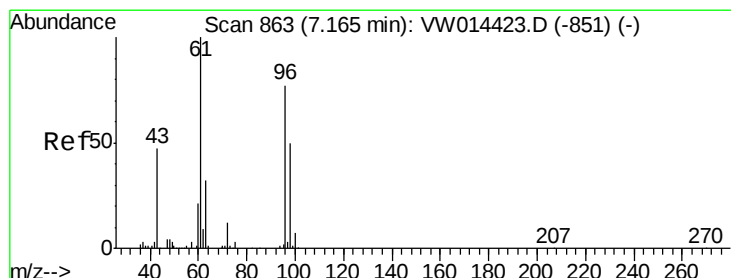
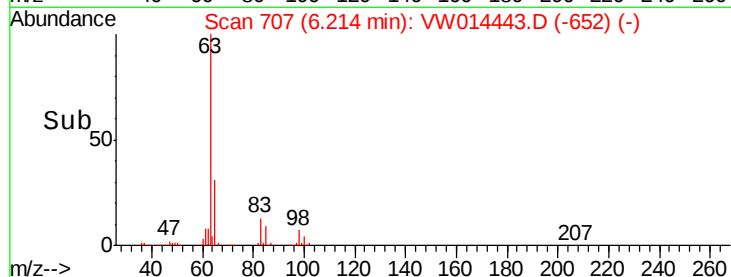
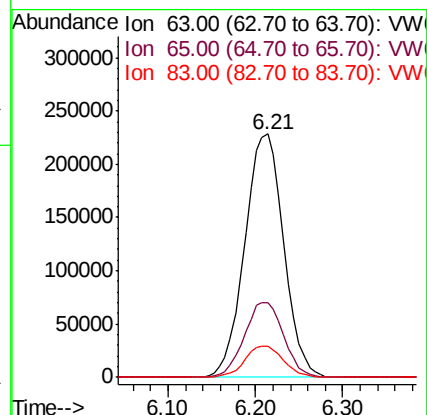
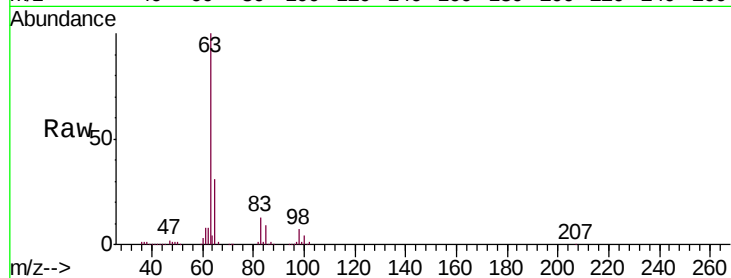




#19
 1,1-Dichloroethane
 Concen: 25.322 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.01 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

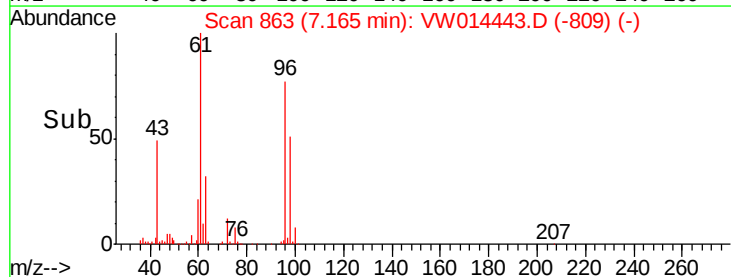
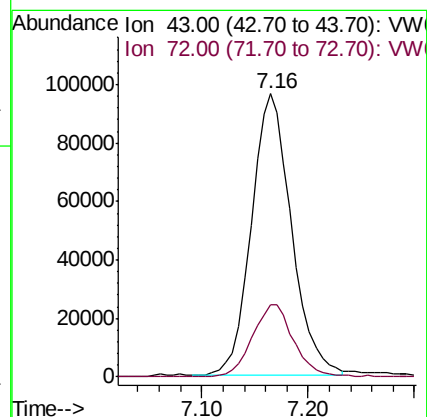
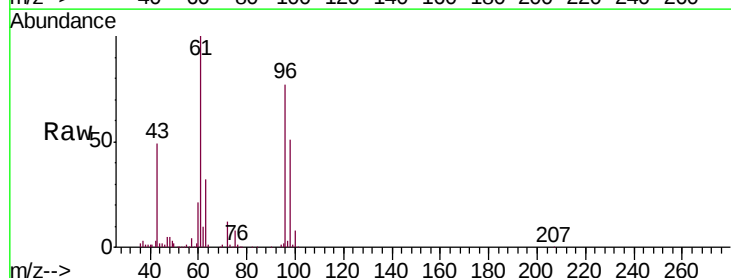
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02526

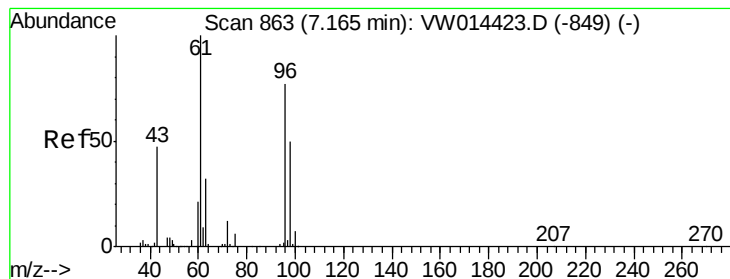
Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.8	22.1	41.1
83	13.0	9.0	16.6



#21
 2-Butanone
 Concen: 45.677 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.4	14.1	42.2



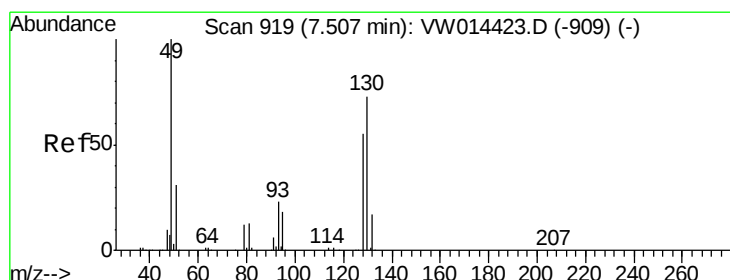
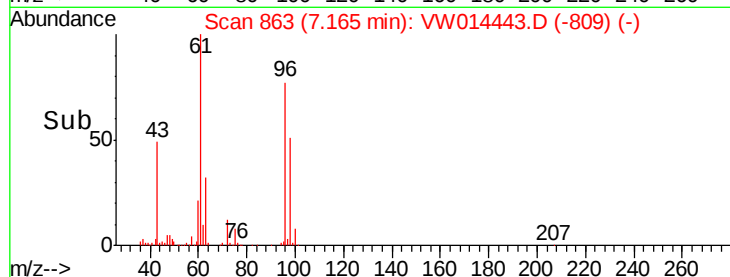
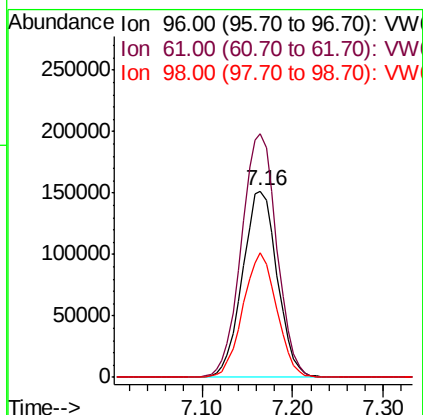
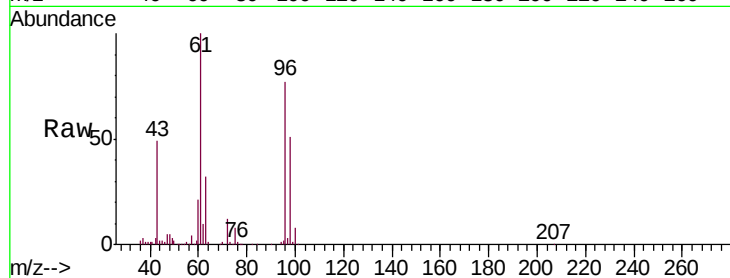


#22

cis-1,2-Dichloroethene
 Concen: 24.378 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02526

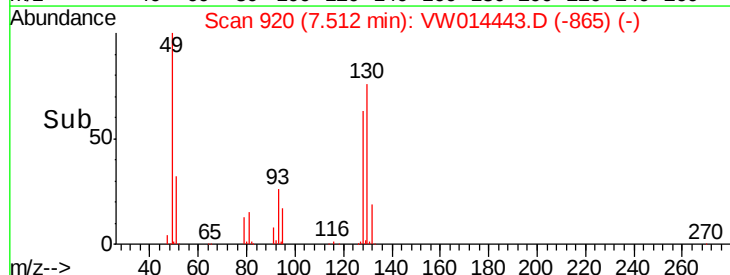
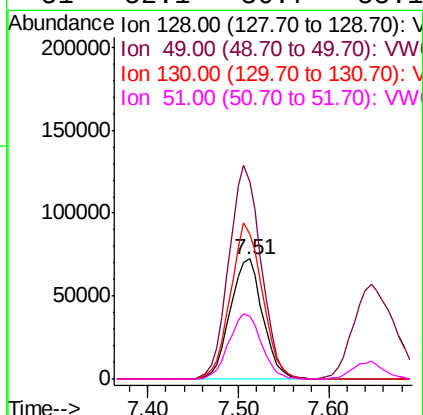
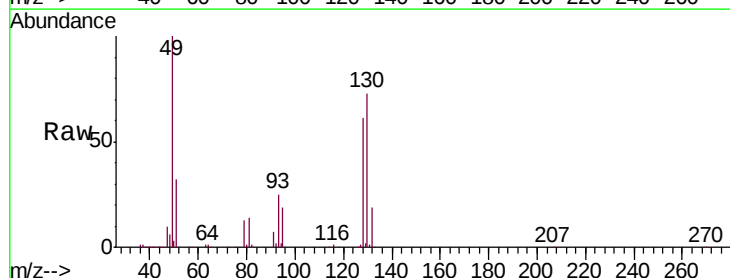
Tgt Ion: 96 Resp: 402883
 Ion Ratio Lower Upper
 96 100
 61 130.6 86.9 161.5
 98 66.6 45.5 84.5

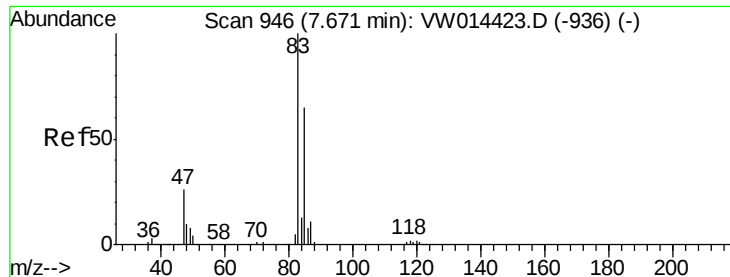


#23

Bromochloromethane
 Concen: 23.682 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

Tgt Ion: 128 Resp: 180031
 Ion Ratio Lower Upper
 128 100
 49 164.6 95.1 176.5
 130 120.7 85.0 158.0
 51 52.1 36.7 55.1





#25

Chloroform

Concen: 25.623 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

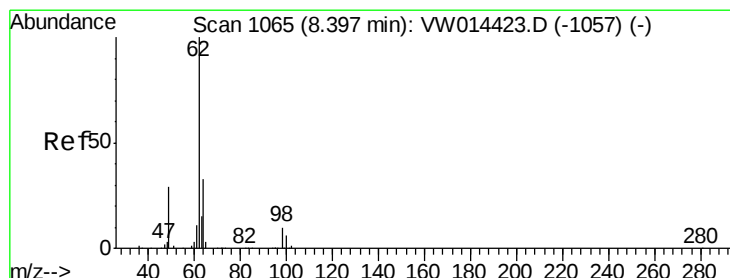
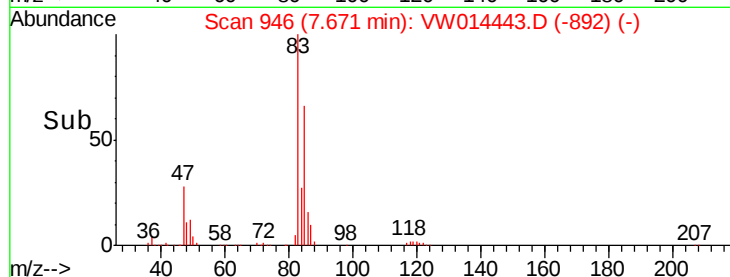
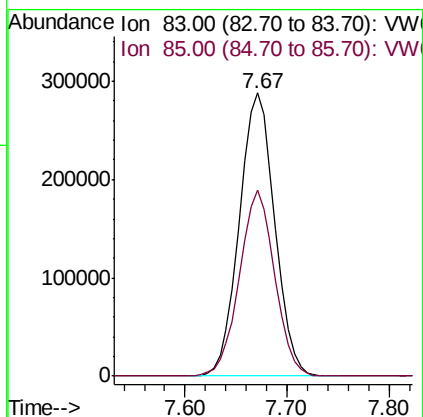
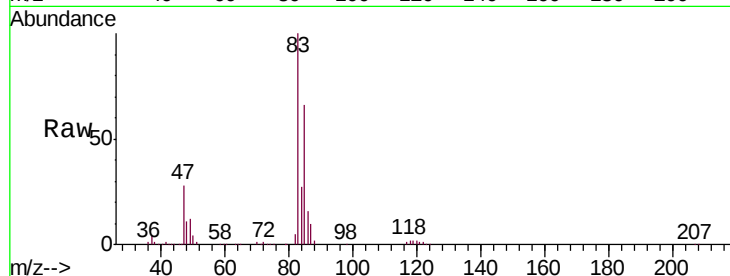
VSTD02526

Tgt Ion: 83 Resp: 694812

Ion Ratio Lower Upper

83 100

85 65.3 46.1 85.7



#27

1,2-Dichloroethane

Concen: 25.422 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014443.D

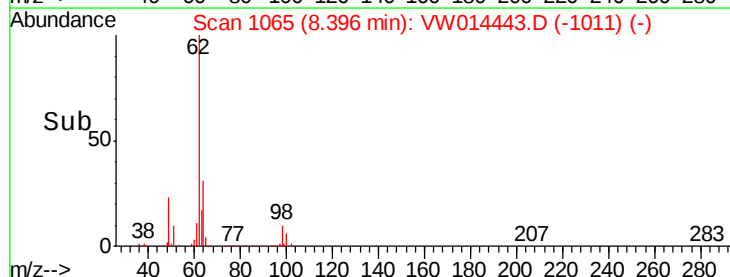
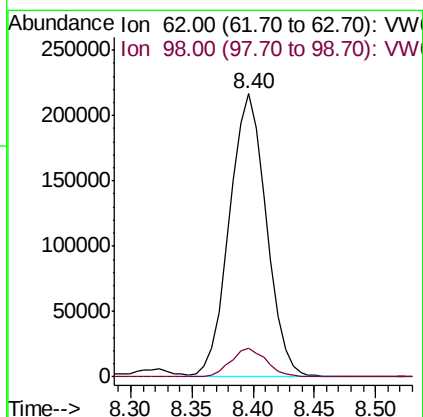
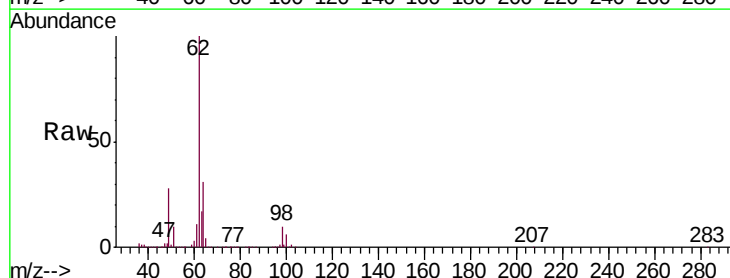
Acq: 18 Dec 2019 19:49

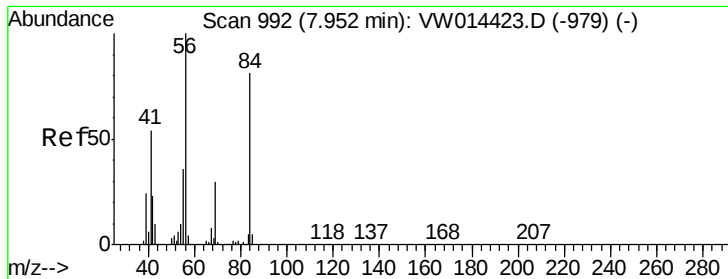
Tgt Ion: 62 Resp: 451398

Ion Ratio Lower Upper

62 100

98 10.2 9.3 13.9

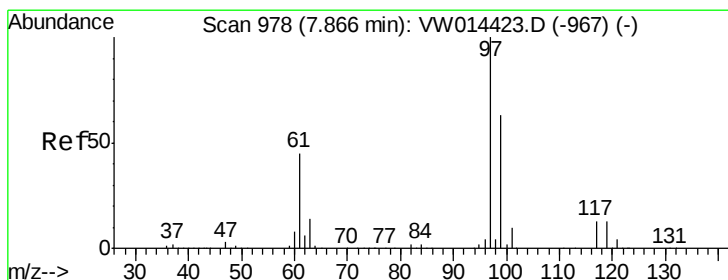
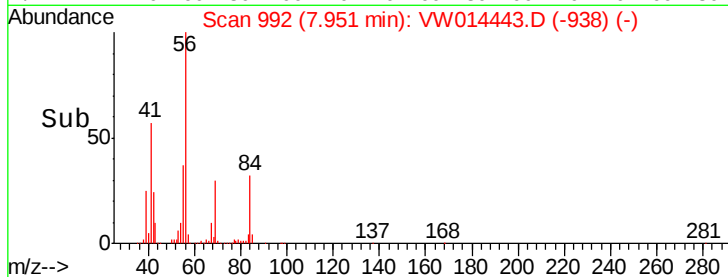
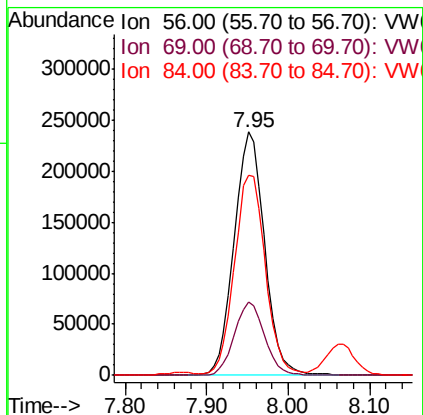
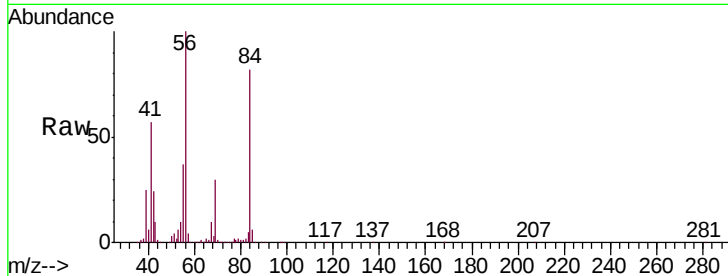




#30
Cyclohexane
Concen: 24.617 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

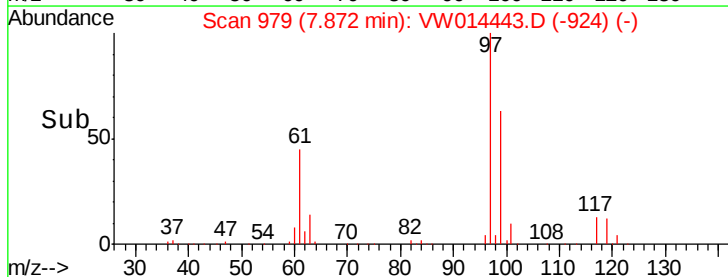
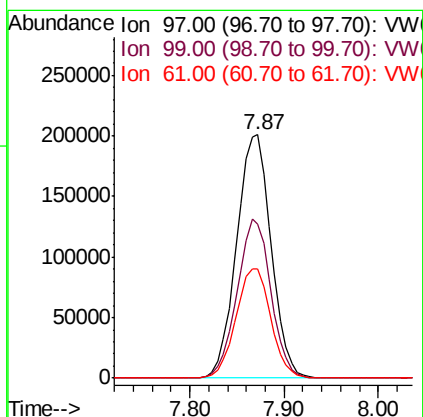
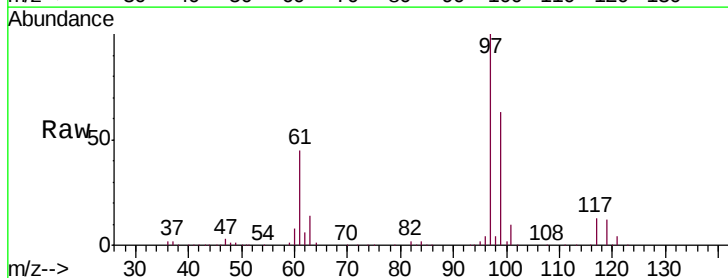
Instrument :
MSVOA_W
ClientSampleId :
VSTD02526

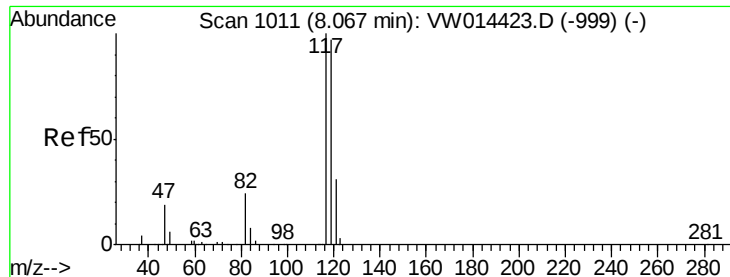
Tgt Ion: 56 Resp: 615401
Ion Ratio Lower Upper
56 100
69 29.9 24.6 37.0
84 83.8 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 25.589 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

Tgt Ion: 97 Resp: 514696
Ion Ratio Lower Upper
97 100
99 64.1 51.1 76.7
61 45.3 32.8 49.2





#32

Carbon tetrachloride

Concen: 25.084 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

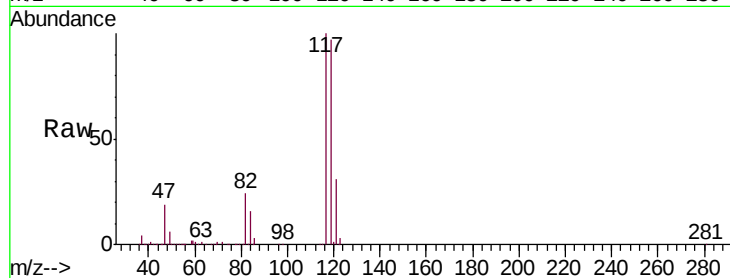
VSTD02526

Tgt Ion:117 Resp: 478738

Ion Ratio Lower Upper

117 100

119 95.9 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

200000

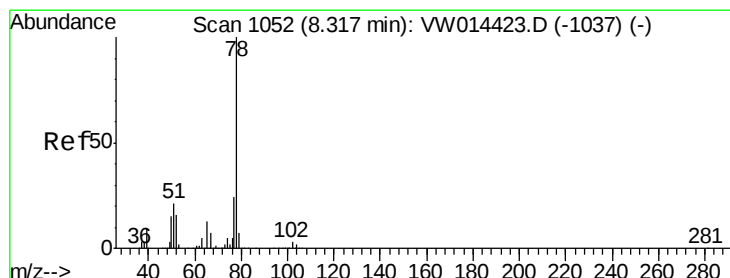
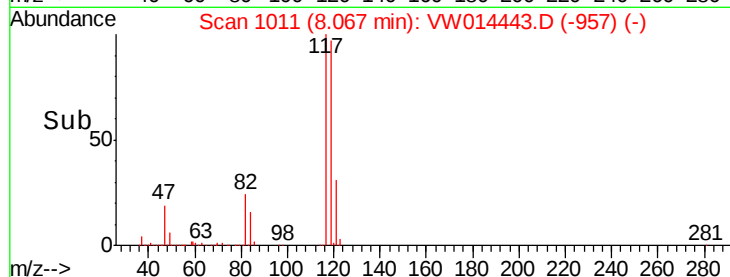
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 24.911 ug/L

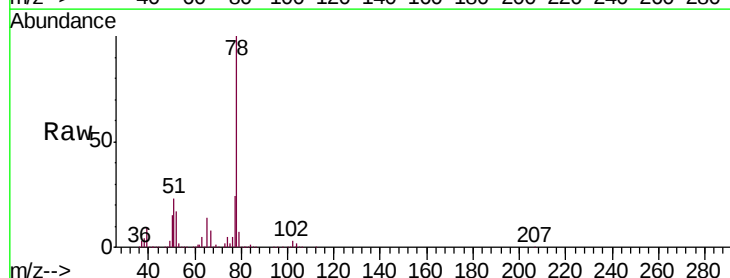
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Tgt Ion: 78 Resp: 1579745



Abundance Ion 78.00 (77.70 to 78.70): VW

800000

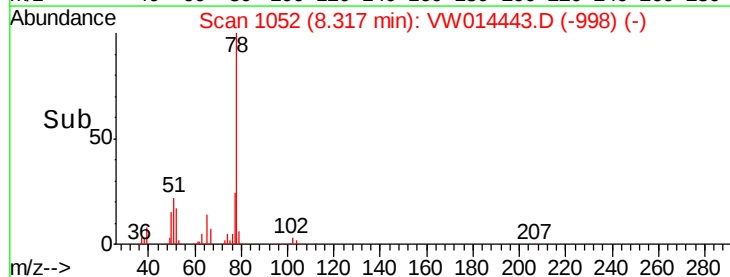
600000

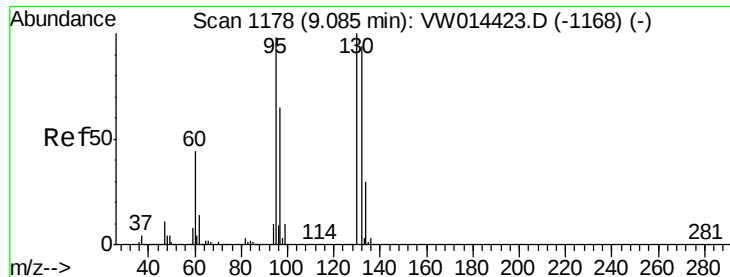
400000

200000

0

Time-->





#35

Trichloroethene

Concen: 24.251 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

Tgt Ion: 95 Resp: 393493

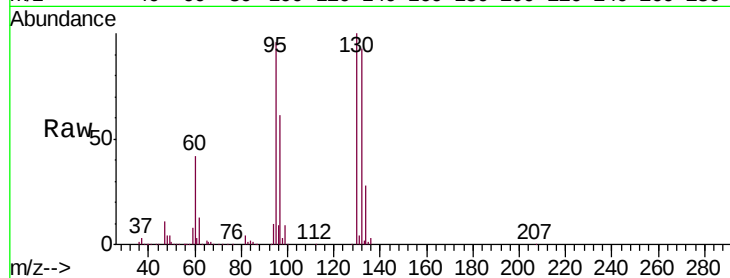
Ion Ratio Lower Upper

95 100

97 63.3 45.1 83.9

132 97.8 73.7 136.9

130 102.7 76.6 142.2

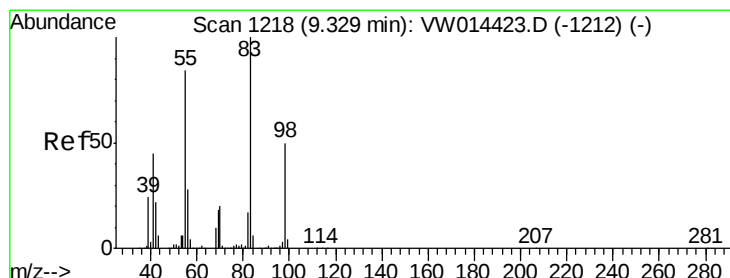
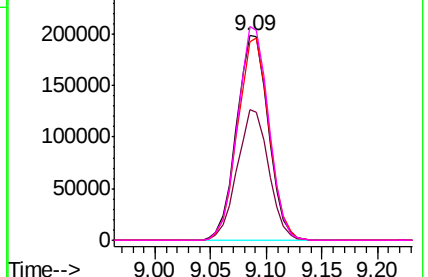
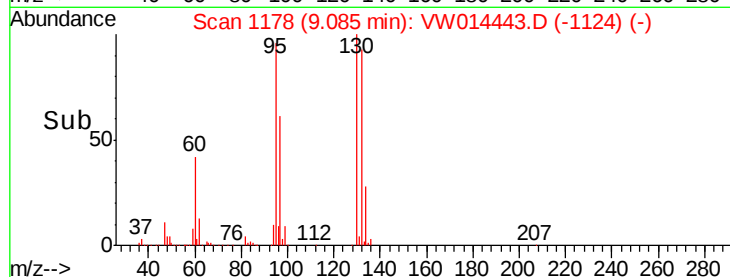


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 24.249 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

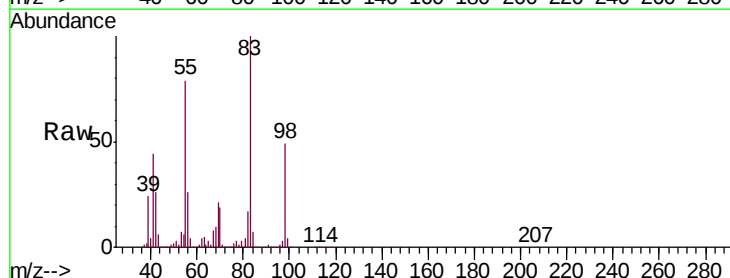
Tgt Ion: 83 Resp: 661174

Ion Ratio Lower Upper

83 100

55 80.0 59.8 89.8

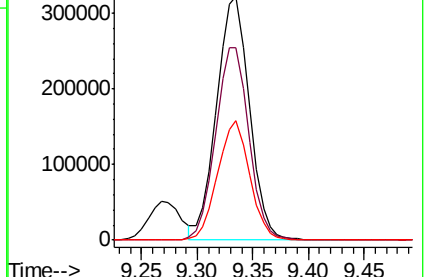
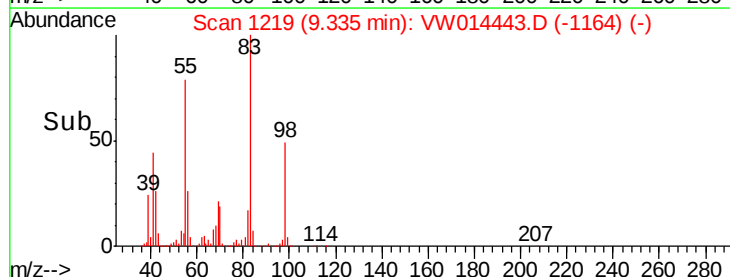
98 47.8 39.5 59.3

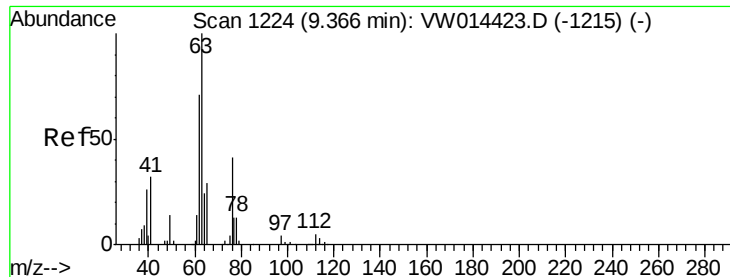


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

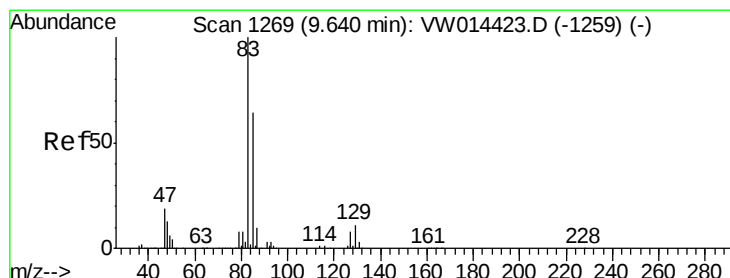
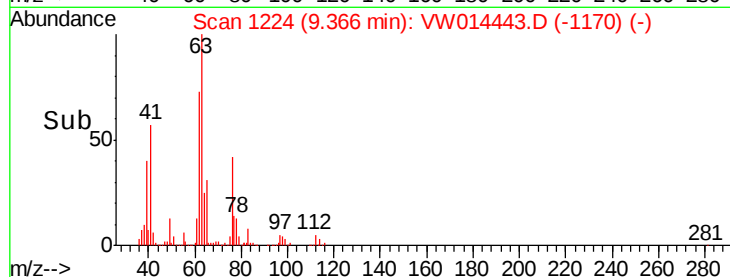
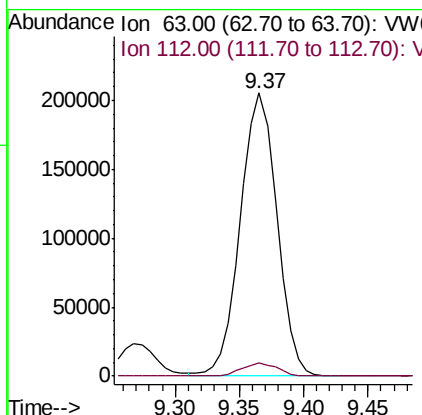
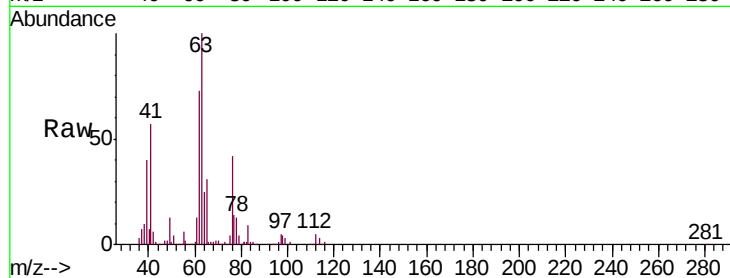




#40
 1,2-Dichloropropane
 Concen: 24.853 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

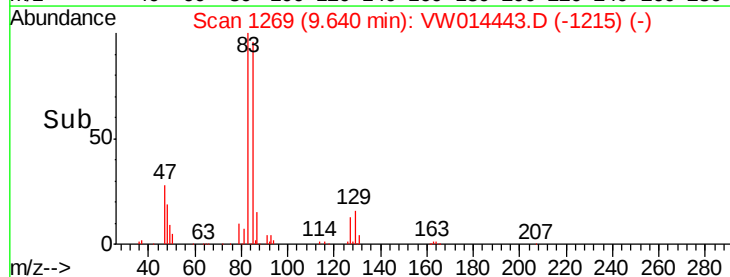
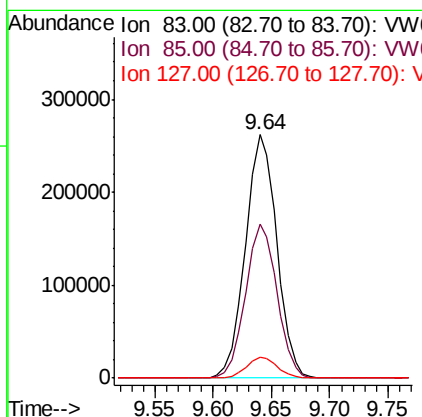
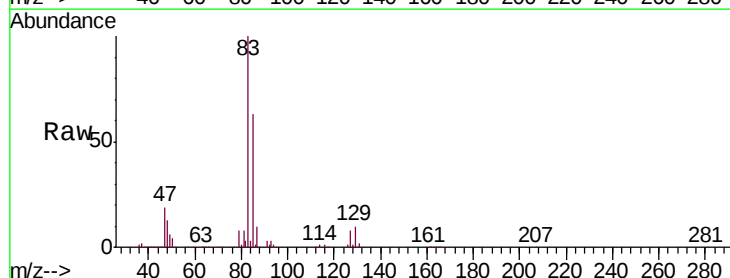
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02526

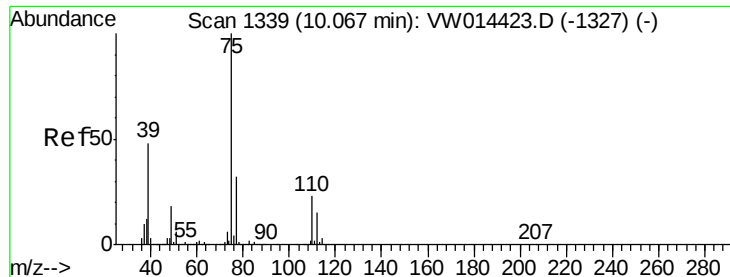
Tgt Ion: 63 Resp: 404905
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.9 5.9



#41
 Bromodichloromethane
 Concen: 24.856 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

Tgt Ion: 83 Resp: 492126
 Ion Ratio Lower Upper
 83 100
 85 63.1 45.1 83.7
 127 8.4 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 24.727 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

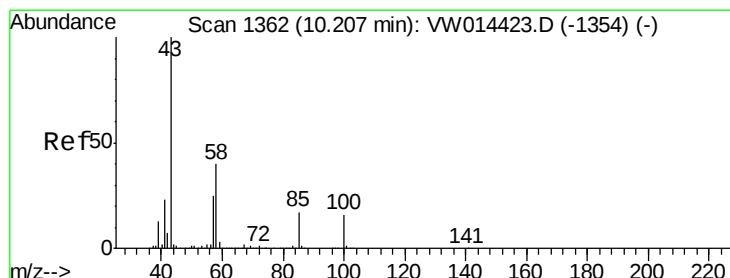
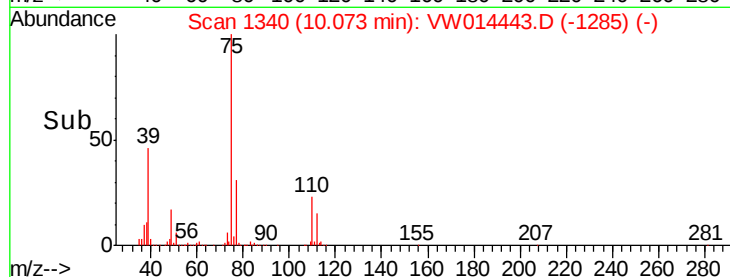
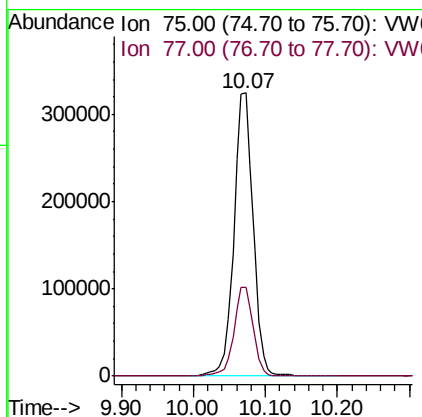
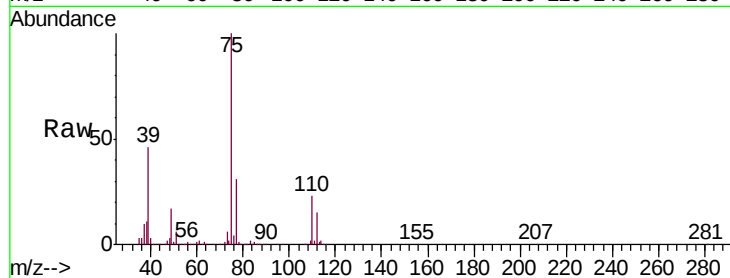
VSTD02526

Tgt Ion: 75 Resp: 603303

Ion Ratio Lower Upper

75 100

77 31.4 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 50.758 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

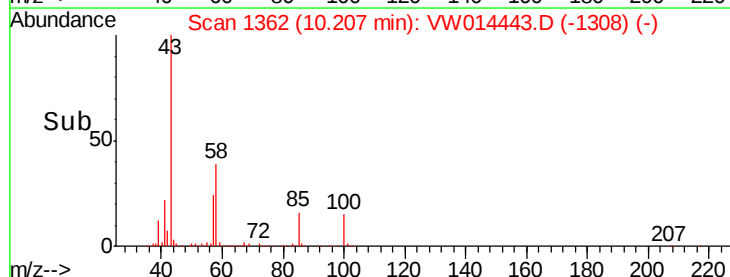
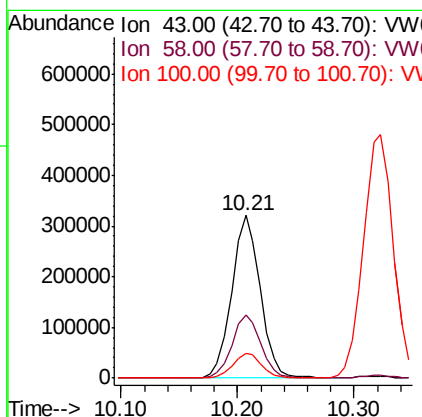
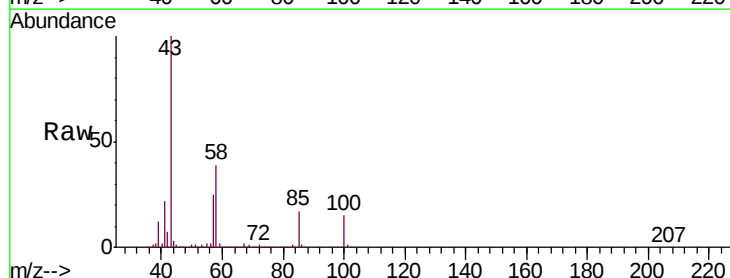
Tgt Ion: 43 Resp: 545301

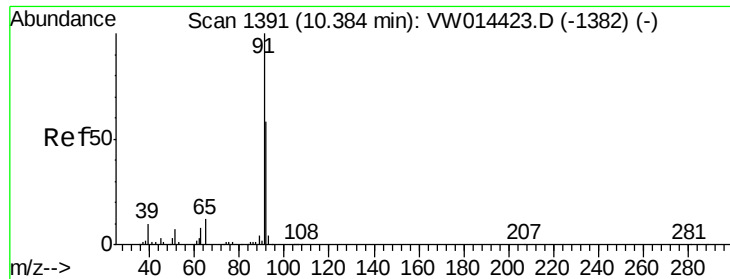
Ion Ratio Lower Upper

43 100

58 39.3 32.6 49.0

100 15.3 13.8 20.8





#44

Toluene

Concen: 25.119 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

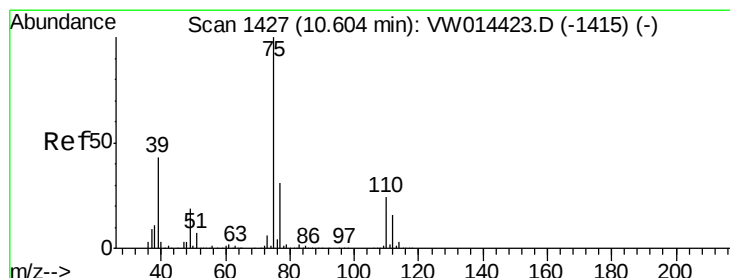
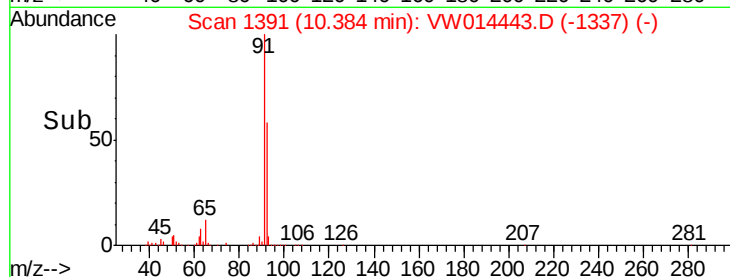
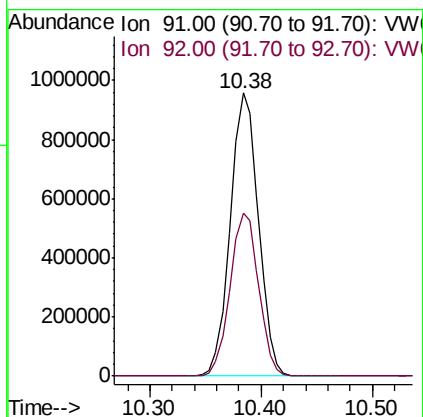
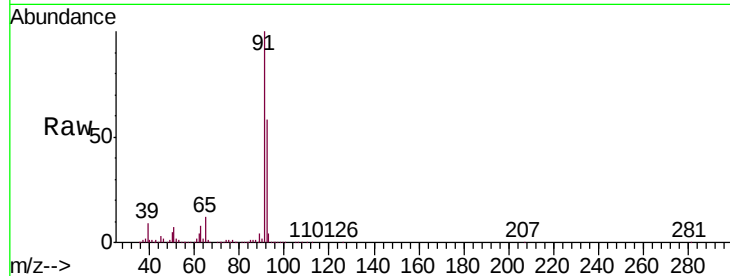
VSTD02526

Tgt Ion: 91 Resp: 1670065

Ion Ratio Lower Upper

91 100

92 57.8 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 24.711 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014443.D

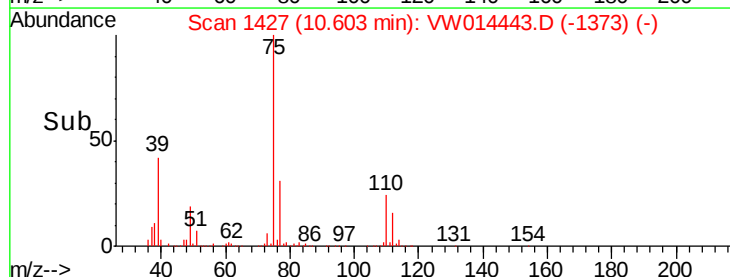
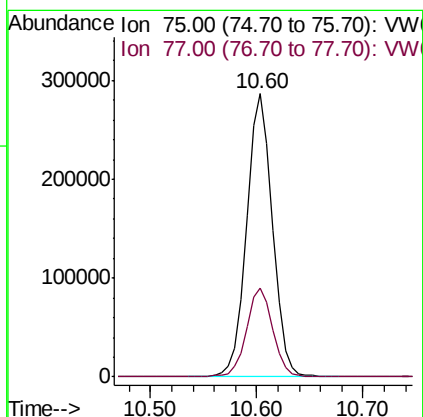
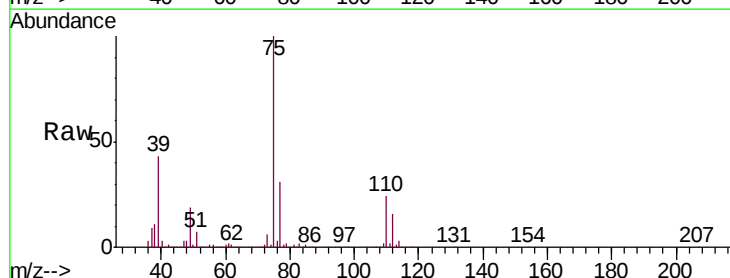
Acq: 18 Dec 2019 19:49

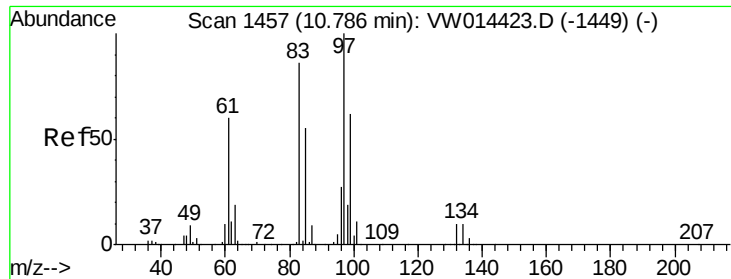
Tgt Ion: 75 Resp: 488040

Ion Ratio Lower Upper

75 100

77 31.3 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 24.189 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

Tgt Ion: 97 Resp: 295315

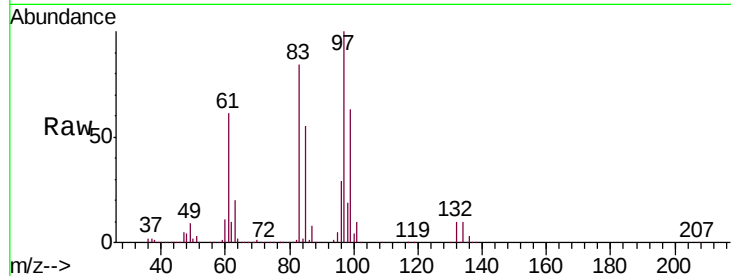
Ion Ratio Lower Upper

97 100

83 84.0 58.9 109.5

85 55.4 38.1 70.9

99 63.5 46.5 86.3



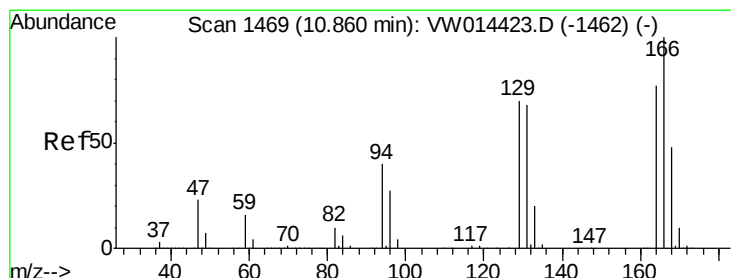
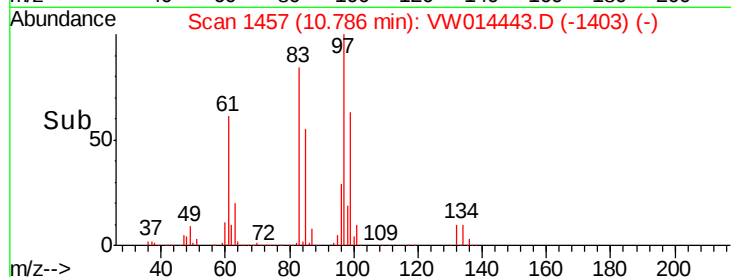
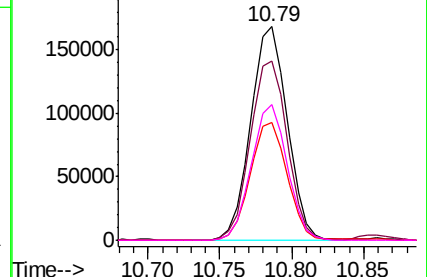
Abundance

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: 23.622 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Tgt Ion: 164 Resp: 319464

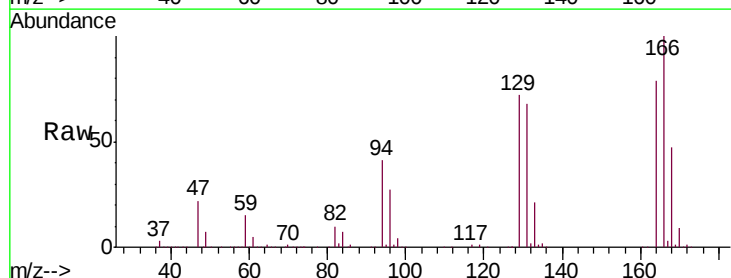
Ion Ratio Lower Upper

164 100

129 91.3 60.6 112.6

131 86.7 59.1 109.7

166 127.2 90.8 168.6



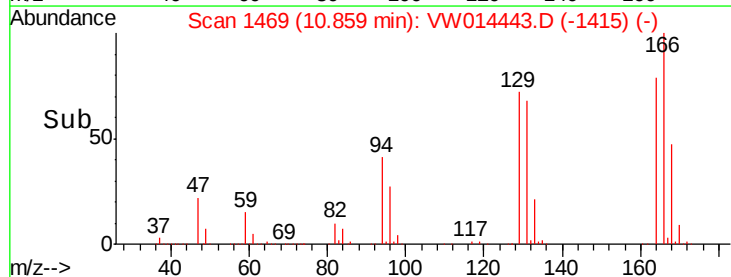
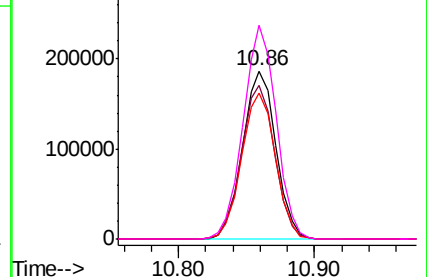
Abundance

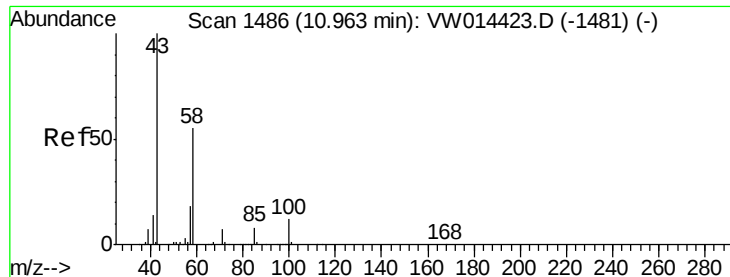
Ion 164.00 (163.70 to 164.70): V

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

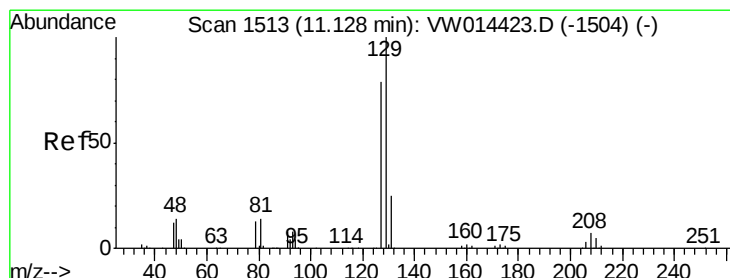
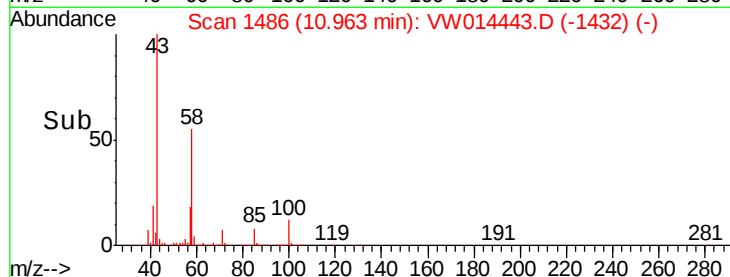
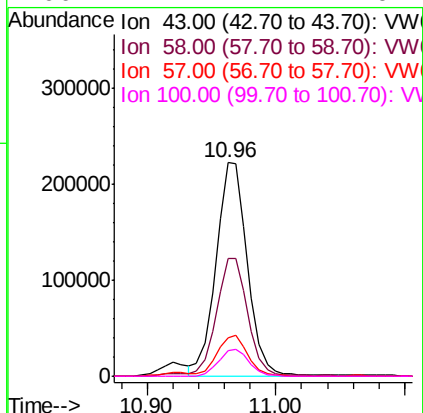
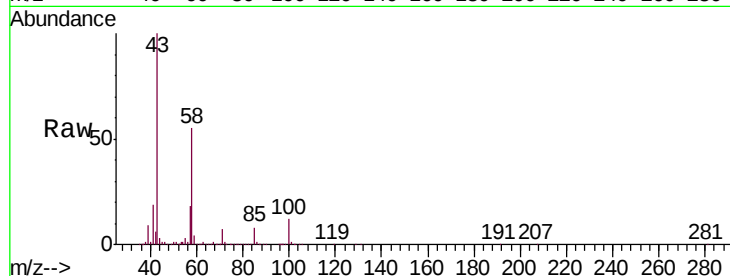




#49
2-Hexanone
Concen: 49.728 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

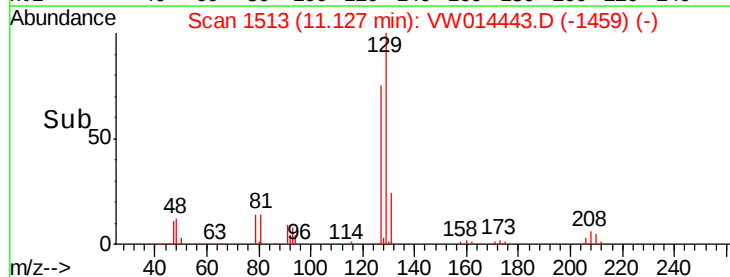
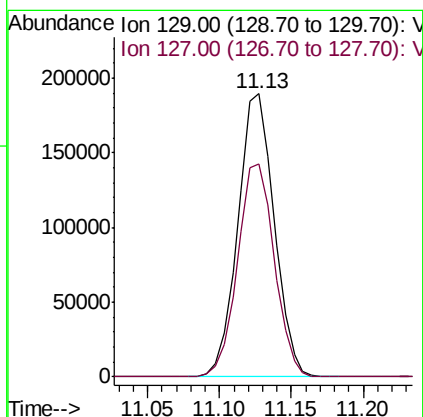
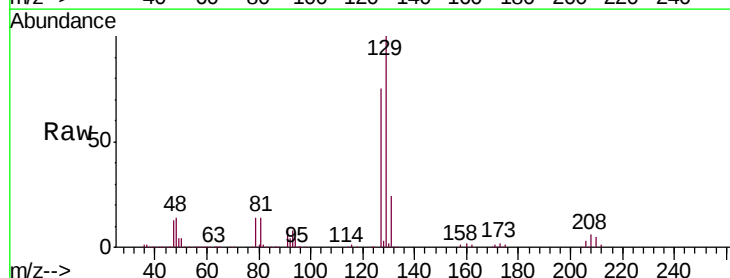
Instrument :
MSVOA_W
ClientSampleId :
VSTD02526

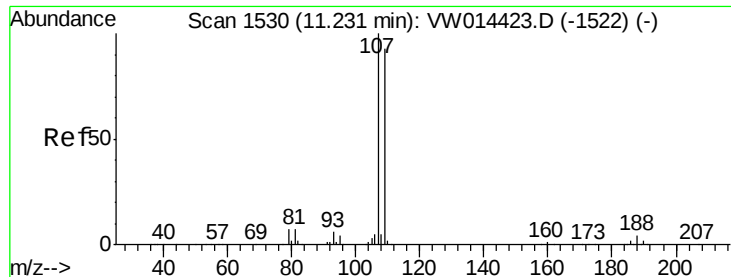
Tgt Ion: 43 Resp: 380349
Ion Ratio Lower Upper
43 100
58 55.0 44.4 66.6
57 18.5 16.5 24.7
100 12.1 11.1 16.7



#50
Dibromochloromethane
Concen: 24.215 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

Tgt Ion: 129 Resp: 331788
Ion Ratio Lower Upper
129 100
127 75.0 54.9 102.1





#51

1,2-Dibromoethane

Concen: 23.785 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

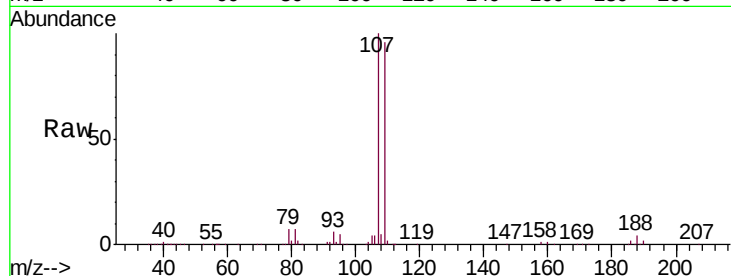
Tgt Ion:107 Resp: 275048

Ion Ratio Lower Upper

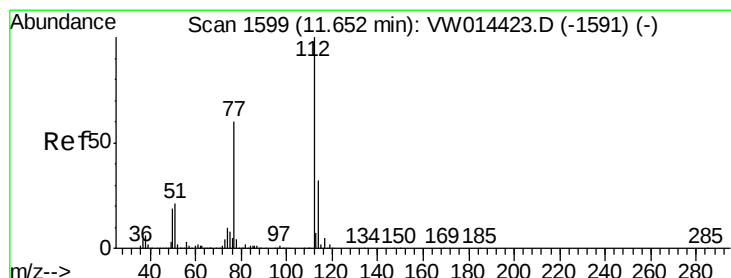
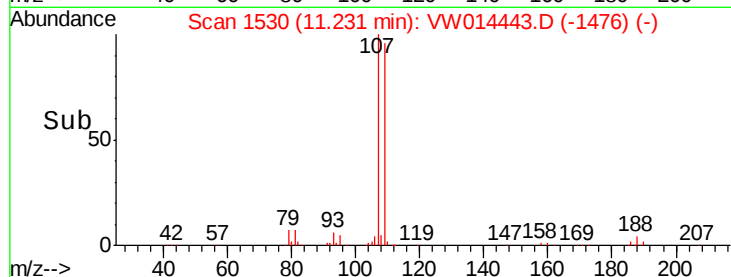
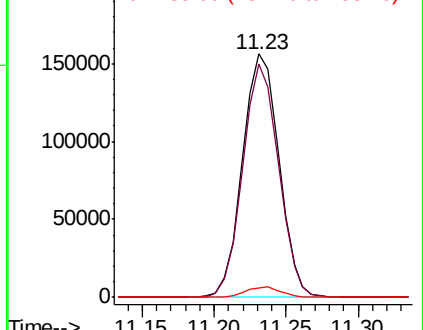
107 100

109 95.6 64.6 120.0

188 4.0 3.9 5.9



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: 24.111 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

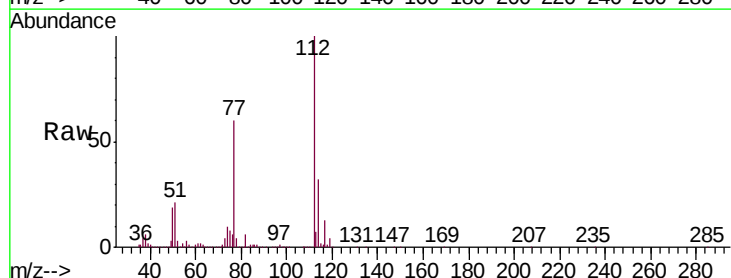
Tgt Ion:112 Resp: 1036046

Ion Ratio Lower Upper

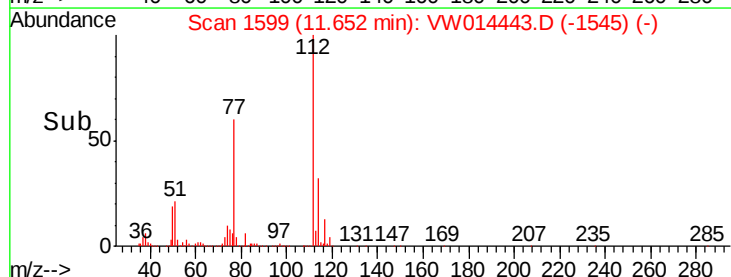
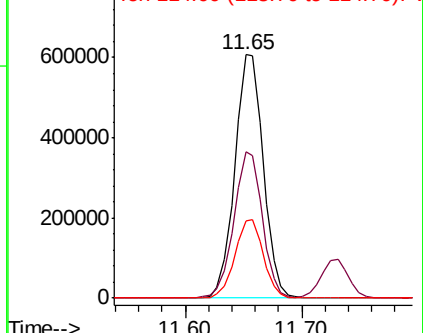
112 100

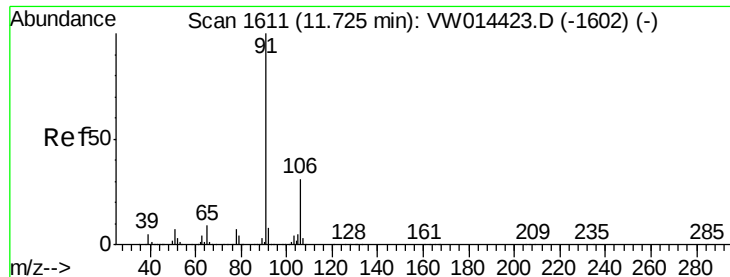
77 60.0 42.2 63.4

114 31.8 22.5 41.9



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: 25.176 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

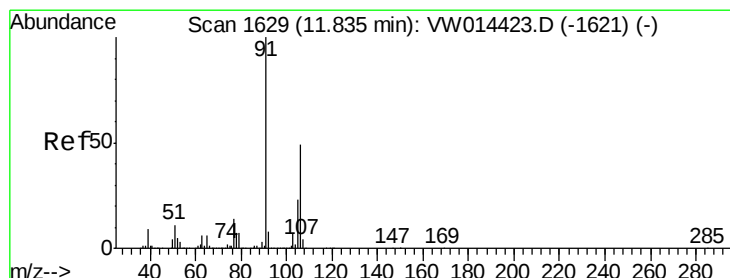
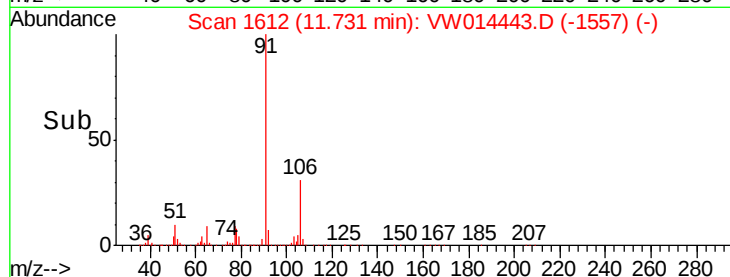
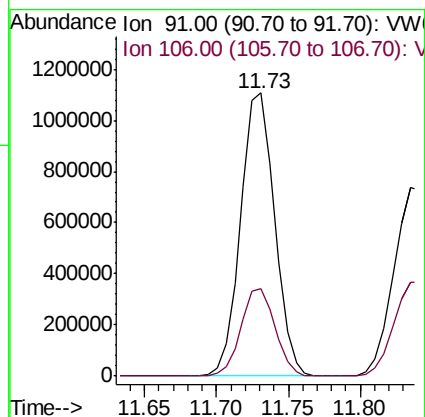
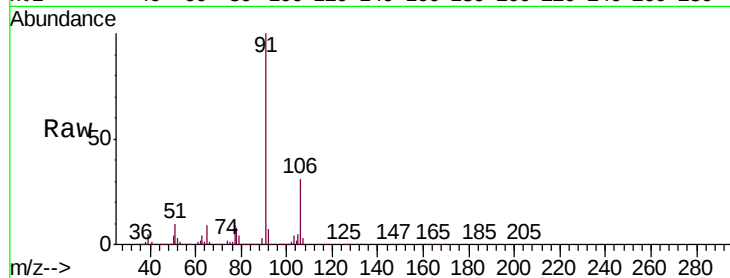
VSTD02526

Tgt Ion: 91 Resp: 1816215

Ion Ratio Lower Upper

91 100

106 31.0 22.3 41.5



#54

m,p-Xylene

Concen: 24.957 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014443.D

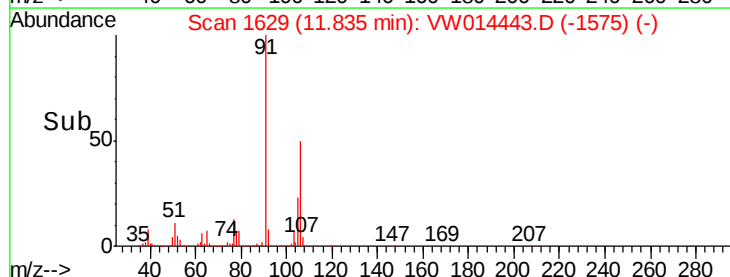
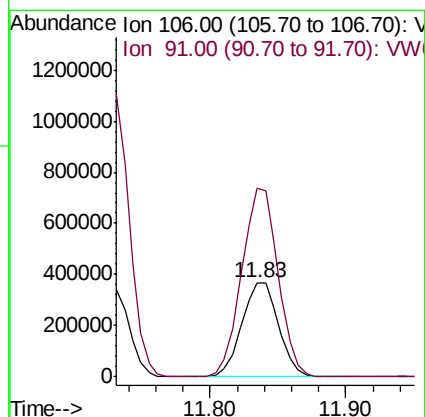
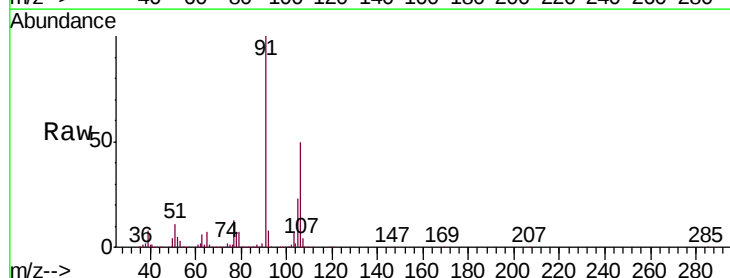
Acq: 18 Dec 2019 19:49

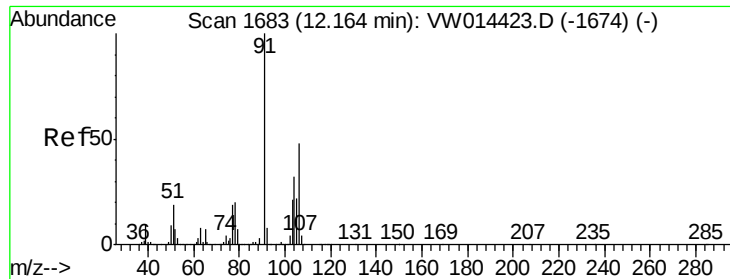
Tgt Ion: 106 Resp: 692588

Ion Ratio Lower Upper

106 100

91 201.3 138.7 257.5

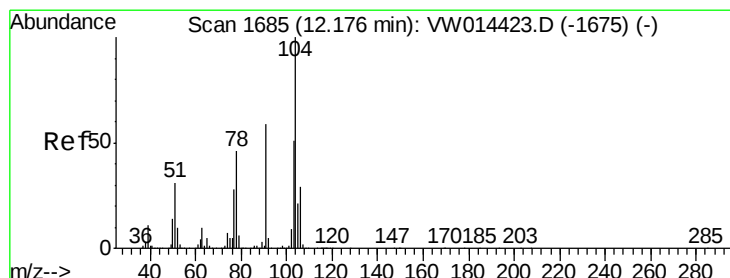
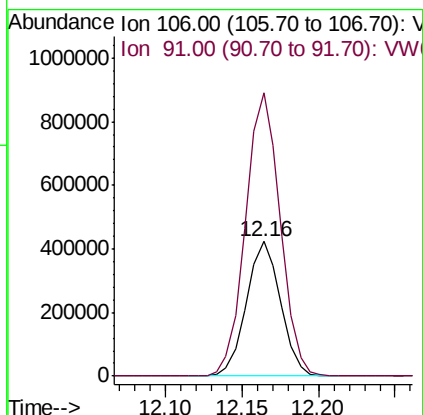
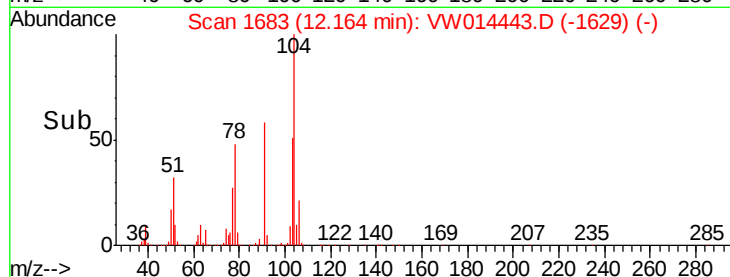
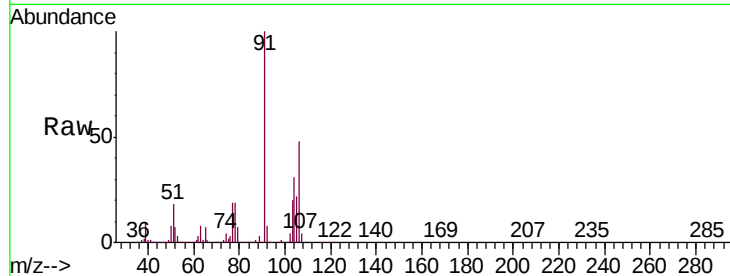




#55
o-xylene
Concen: 24.976 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

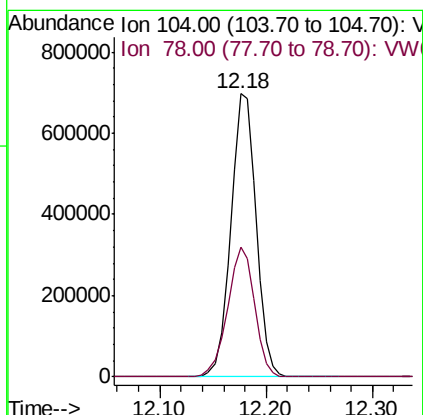
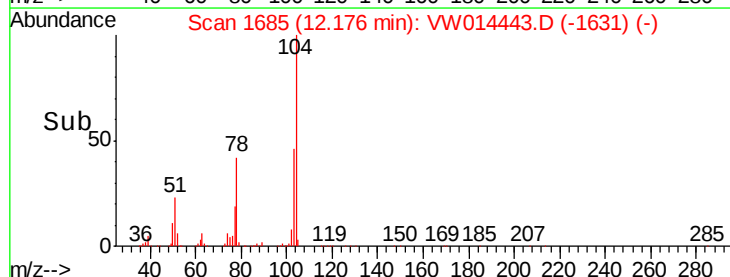
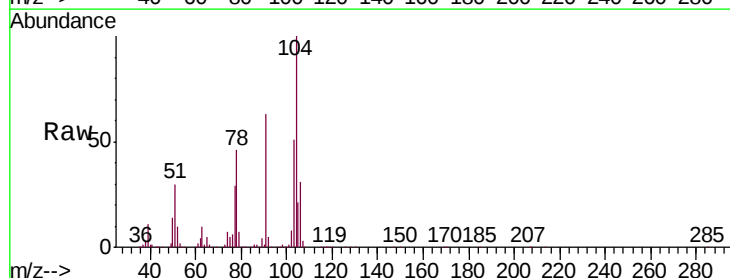
Instrument :
MSVOA_W
ClientSampleId :
VSTD02526

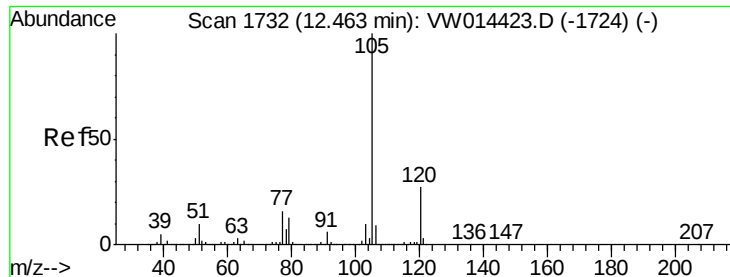
Tgt Ion:106 Resp: 657422
Ion Ratio Lower Upper
106 100
91 210.4 148.3 275.5



#56
Styrene
Concen: 25.733 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VW014443.D
Acq: 18 Dec 2019 19:49

Tgt Ion:104 Resp: 1158780
Ion Ratio Lower Upper
104 100
78 46.1 30.6 56.8





#57

Isopropylbenzene

Concen: 25.535 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

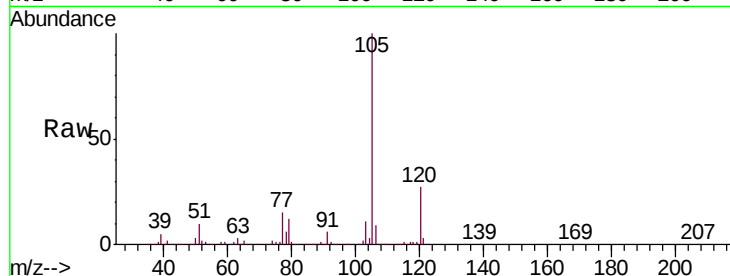
Tgt Ion: 105 Resp: 1744940

Ion Ratio Lower Upper

105 100

120 26.5 21.6 32.4

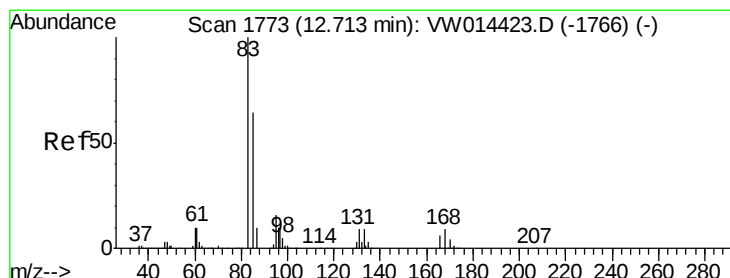
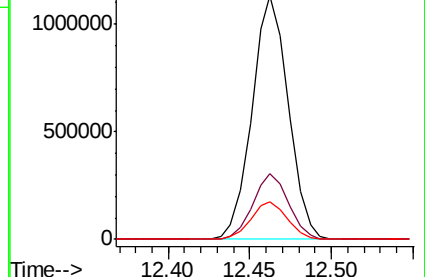
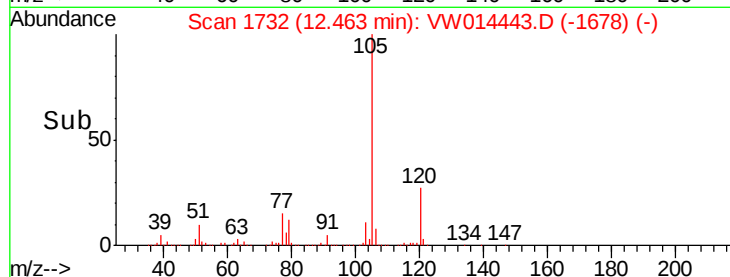
77 15.4 11.6 17.4



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: 23.856 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

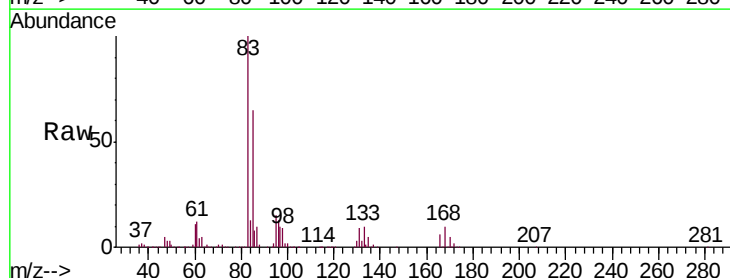
Tgt Ion: 83 Resp: 361484

Ion Ratio Lower Upper

83 100

85 65.2 43.7 81.1

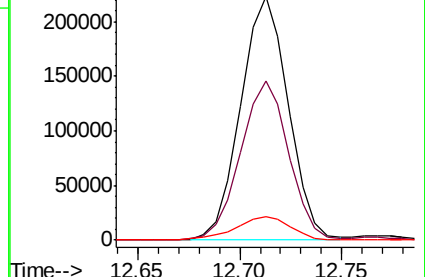
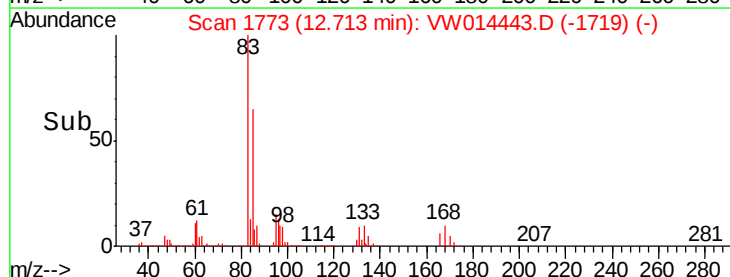
131 9.5 8.2 12.2

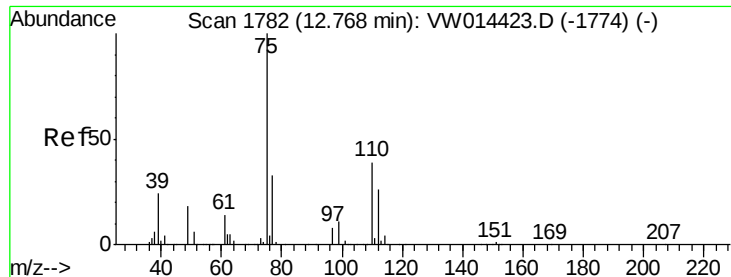


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.989 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

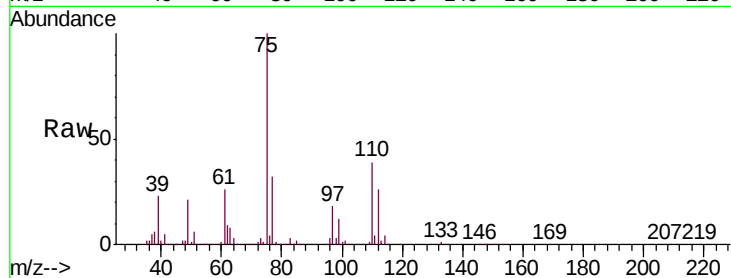
VSTD02526

Tgt Ion: 75 Resp: 270108

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

12.77

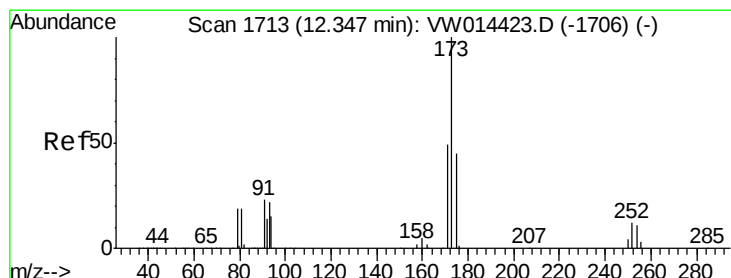
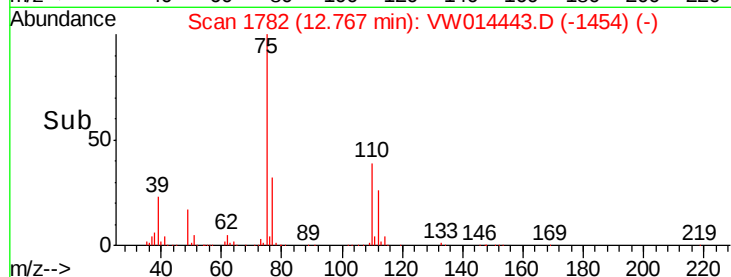
150000

100000

50000

0

Time-->



#62

Bromoform

Concen: 23.379 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

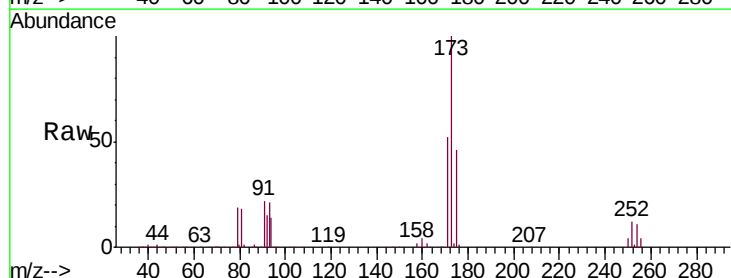
Tgt Ion: 173 Resp: 194385

Ion Ratio Lower Upper

173 100

175 47.2 38.8 58.2

254 11.6 9.4 14.0



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

12.35

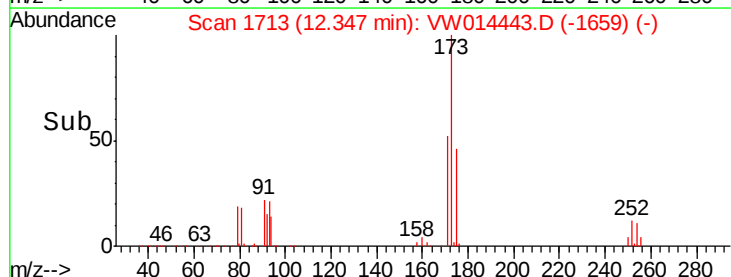
150000

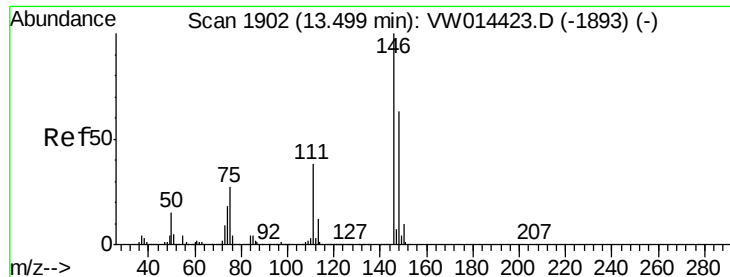
100000

50000

0

Time-->





#63

1,3-Dichlorobenzene

Concen: 24.114 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

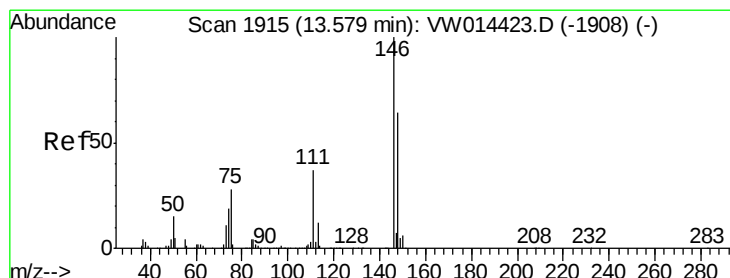
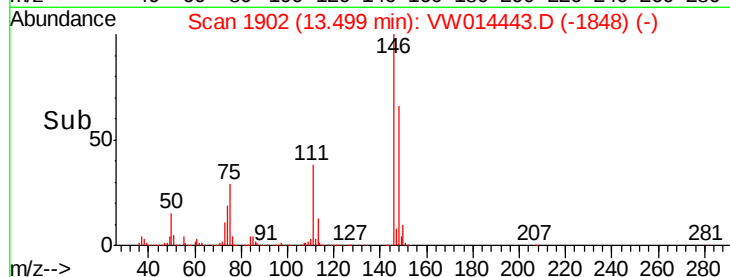
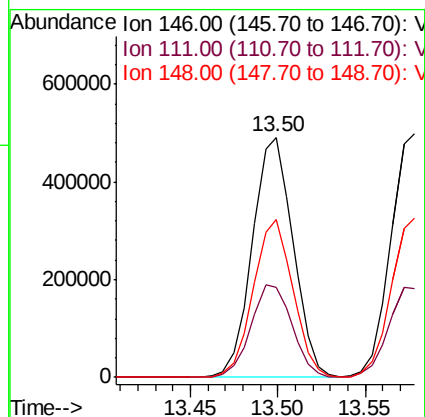
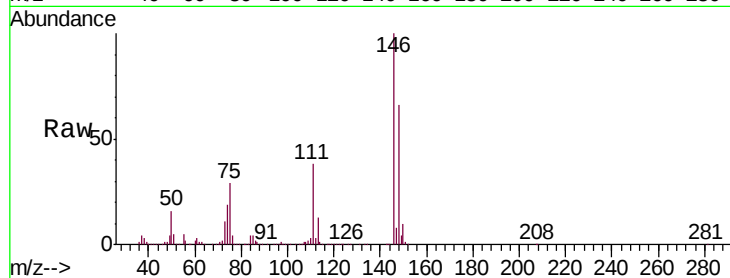
Tgt Ion:146 Resp: 793983

Ion Ratio Lower Upper

146 100

111 37.6 26.0 48.2

148 66.0 44.7 82.9



#64

1,4-Dichlorobenzene

Concen: 24.025 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

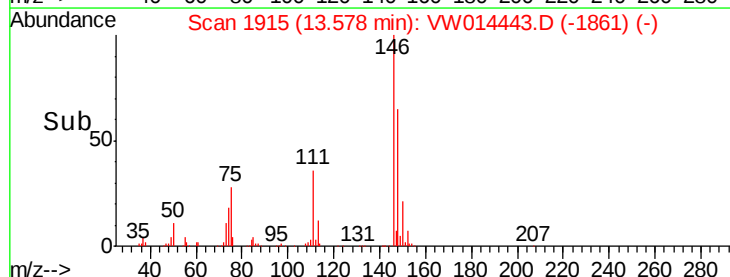
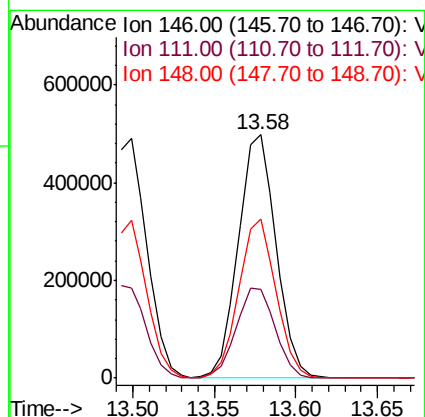
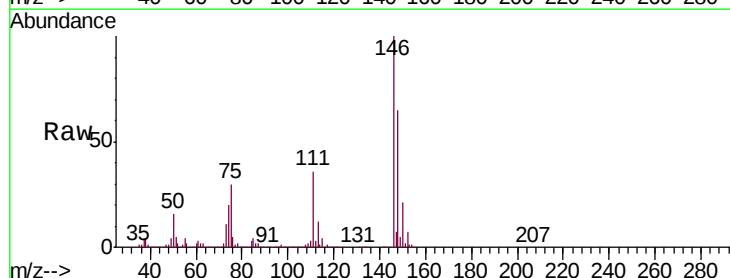
Tgt Ion:146 Resp: 803725

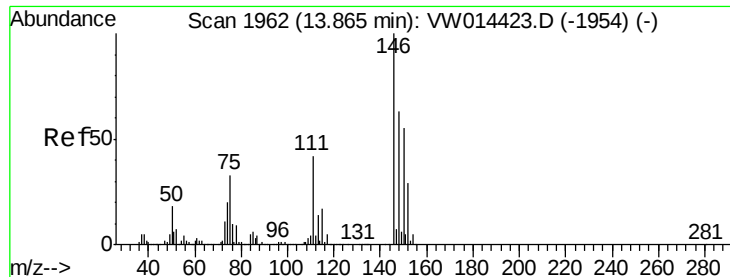
Ion Ratio Lower Upper

146 100

111 36.4 24.9 46.3

148 65.4 43.9 81.5

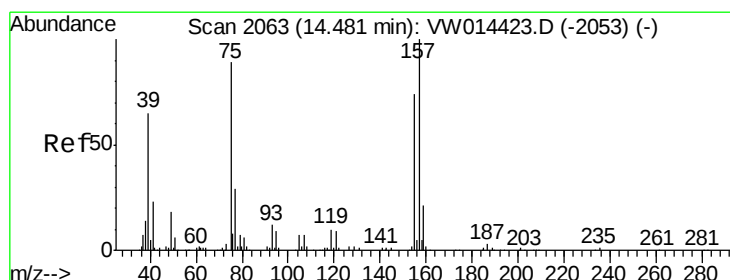
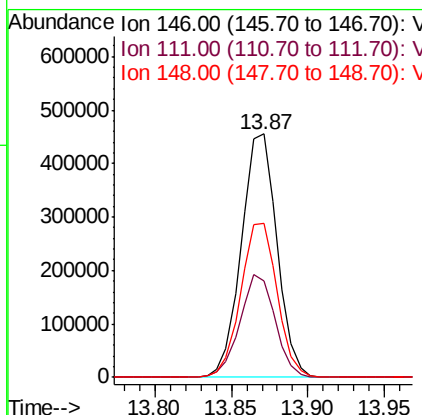
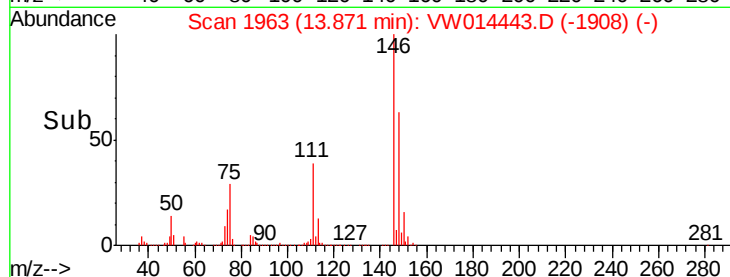
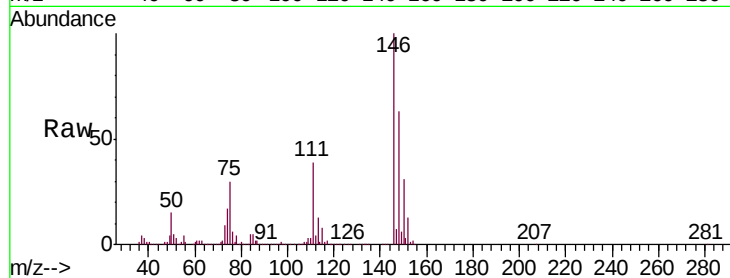




#65
 1,2-Dichlorobenzene
 Concen: 24.103 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.01 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

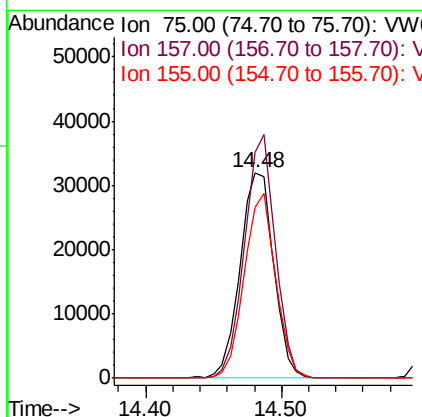
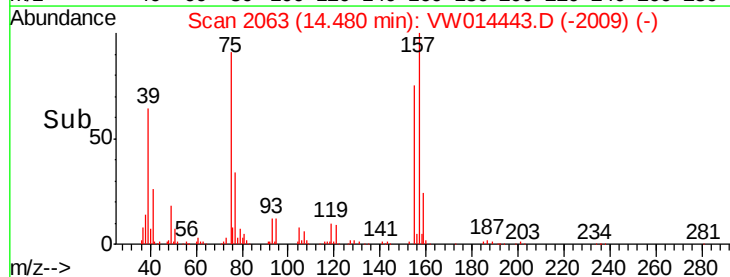
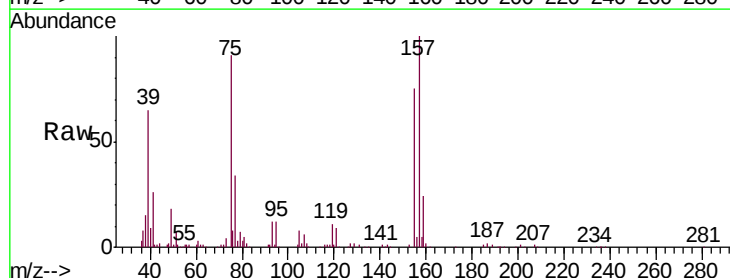
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02526

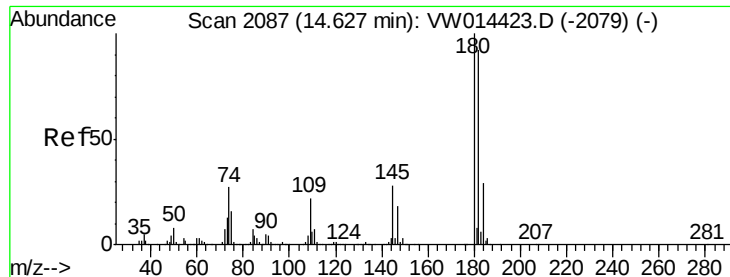
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	30.5	45.7
148	63.2	49.4	74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.443 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

Tgt Ion	Ratio	Lower	Upper
75	100		
157	109.9	96.9	145.3
155	82.9	82.9	124.3

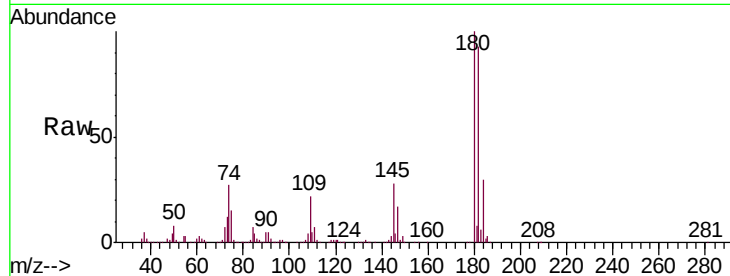




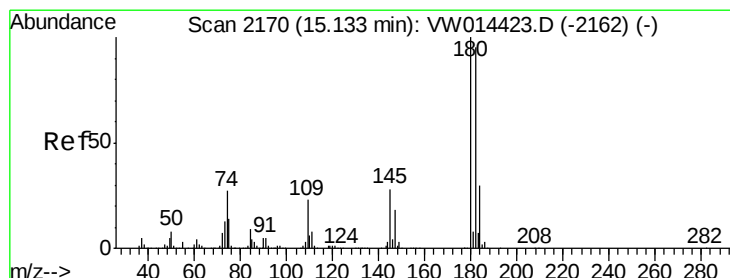
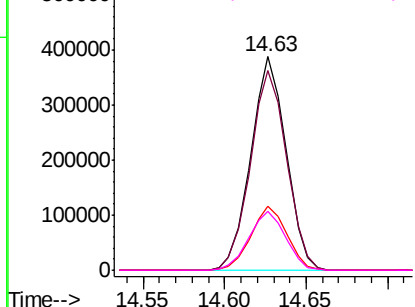
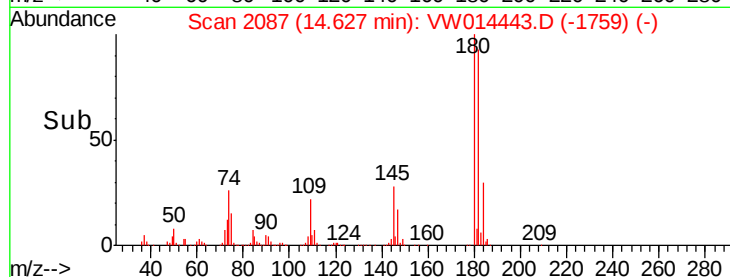
#67
 1,3,5-Trichlorobenzene
 Concen: 24.756 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02526

Tgt Ion:	180	Resp:	586463
Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.2
184	30.2	24.3	36.5
145	28.7	21.9	32.9

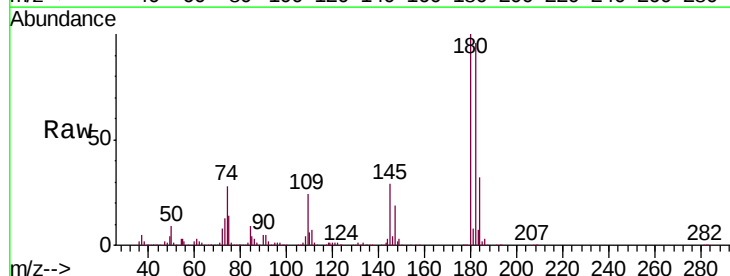


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

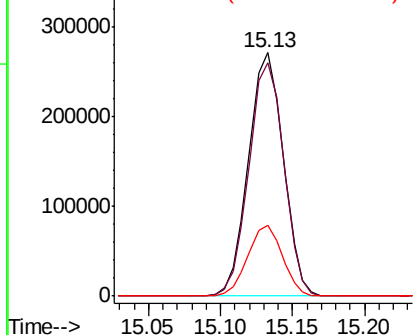
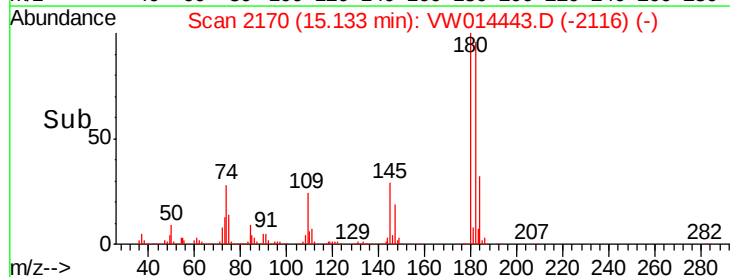


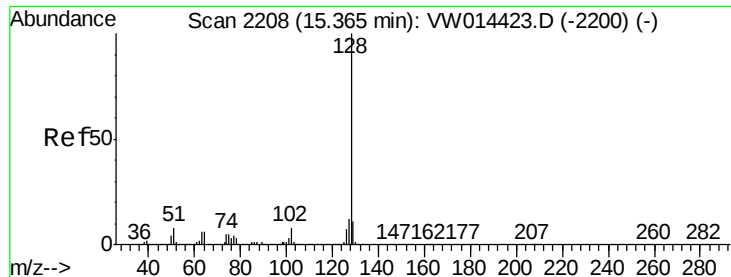
#68
 1,2,4-trichlorobenzene
 Concen: 24.614 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014443.D
 Acq: 18 Dec 2019 19:49

Tgt Ion:	180	Resp:	454576
Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.8	113.8
145	29.0	22.4	33.6



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





#69

Naphthalene

Concen: 25.125 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

Instrument :

MSVOA_W

ClientSampleId :

VSTD02526

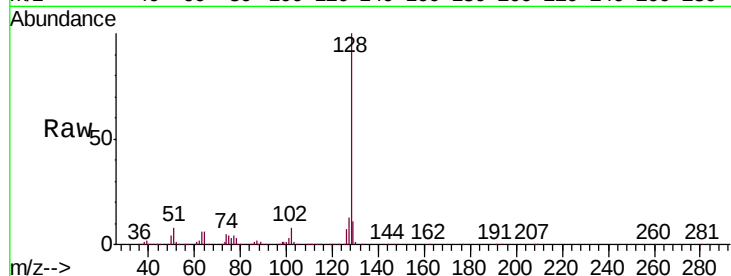
Tgt Ion:128 Resp: 872585

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

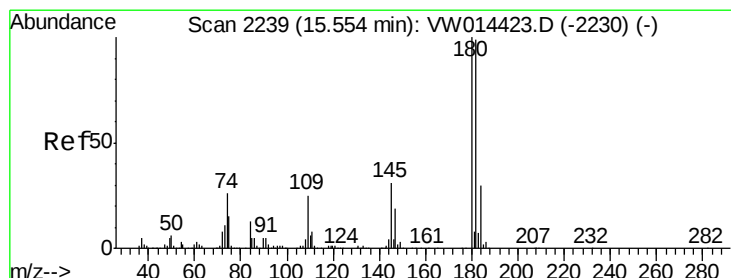
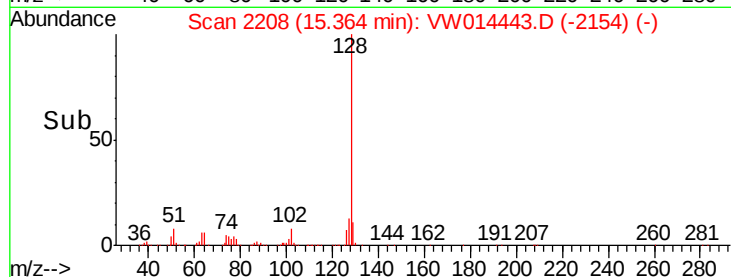
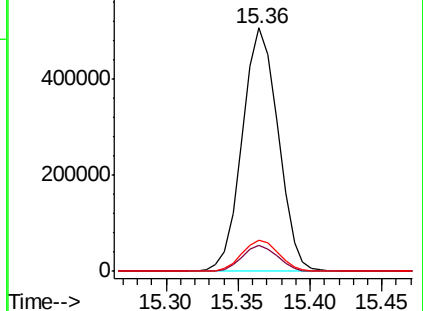
127 13.0 10.4 15.6



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: 24.461 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014443.D

Acq: 18 Dec 2019 19:49

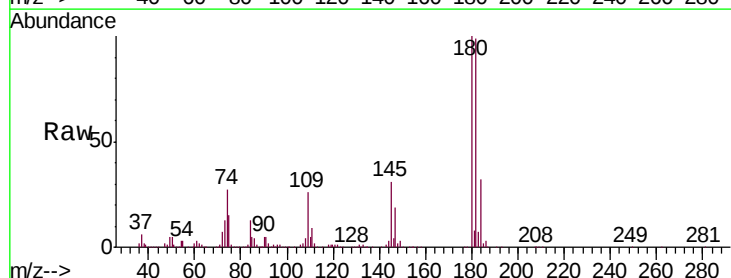
Tgt Ion:180 Resp: 423624

Ion Ratio Lower Upper

180 100

182 98.0 75.8 113.6

145 31.4 24.0 36.0



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

