

Data File : VW013783.D
Acq On : 29 Oct 2019 09:38
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02530

Quant Time: Oct 30 06:59:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 29 12:39:24 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	313382	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	303580	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	183981	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	89348	23.24	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.96%
7) Chloroethane-d5	2.89	69	79503	22.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.60%
10) 1,1-Dichloroethene-d2	4.03	63	207788	24.47	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	97.88%
20) 2-Butanone-d5	7.07	46	74396	54.10	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.20%
24) Chloroform-d	7.65	84	213908	24.39	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.56%
26) 1,2-Dichloroethane-d4	8.30	65	110958	24.20	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.80%
29) Benzene-d6	8.27	84	421609	23.12	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.48%
33) 1,2-Dichloropropane-d6	9.27	67	132355	24.30	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.20%
37) Toluene-d8	10.32	98	393704	23.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.60%
38) trans-1,3-Dichloropropene-	10.58	79	57755	23.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.00%
39) 2-Hexanone-d5	10.92	63	59476	57.12	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.24%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	117745	26.39	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	105.56%
61) 1,2-Dichlorobenzene-d4	13.85	152	153545	23.62	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.48%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	90647	25.717 ug/L	95
3) Chloromethane	2.21	50	85450	22.395 ug/L	100
5) Vinyl chloride	2.37	62	141961	29.772 ug/L	100
6) Bromomethane	2.78	94	88435	25.667 ug/L	98
8) Chloroethane	2.93	64	85668	26.586 ug/L	96
9) Trichlorofluoromethane	3.26	101	75135	23.378 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	139052	27.477 ug/L	100
12) 1,1-Dichloroethene	4.04	96	141622	28.435 ug/L	96
13) Acetone	4.11	43	85085	55.746 ug/L	95
14) Carbon disulfide	4.38	76	406752	28.542 ug/L	100
15) Methyl Acetate	4.67	43	69964	28.054 ug/L	99
16) Methylene chloride	4.92	84	143320	23.883 ug/L	99
17) Methyl tert-butyl Ether	5.42	73	182159	26.433 ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	147223	26.740 ug/L	99
19) 1,1-Dichloroethane	6.21	63	251807	27.020 ug/L	99
21) 2-Butanone	7.16	43	104600	53.976 ug/L	99
22) cis-1,2-Dichloroethene	7.16	96	155628	26.334 ug/L	96

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	72465	27.129	ug/L	94
25) Chloroform	7.67	83	254303	27.165	ug/L	99
27) 1,2-Dichloroethane	8.40	62	161188	26.865	ug/L	96
30) Cyclohexane	7.95	56	245076	27.556	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	198636	28.053	ug/L	99
32) Carbon tetrachloride	8.06	117	194148	28.158	ug/L	99
34) Benzene	8.32	78	593791	27.260	ug/L	100
35) Trichloroethene	9.09	95	153115	27.398	ug/L	100
36) Methylcyclohexane	9.34	83	271758	27.588	ug/L	100
40) 1,2-Dichloropropane	9.37	63	144327	27.099	ug/L	100
41) Bromodichloromethane	9.64	83	181963	27.884	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	228323	27.153	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	194047	53.402	ug/L	99
44) Toluene	10.38	91	642200	27.441	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	185680	27.356	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	111882	27.238	ug/L	96
47) Tetrachloroethene	10.86	164	139168	27.204	ug/L	97
49) 2-Hexanone	10.97	43	146714	56.912	ug/L	98
50) Dibromochloromethane	11.13	129	133713	27.583	ug/L	91
51) 1,2-Dibromoethane	11.24	107	107876	27.007	ug/L	96
52) Chlorobenzene	11.66	112	405413	27.075	ug/L	99
53) Ethylbenzene	11.73	91	716045	27.692	ug/L	100
54) m,p-Xylene	11.84	106	277439	27.766	ug/L	96
55) o-xylene	12.16	106	260987	27.524	ug/L	100
56) Styrene	12.18	104	453129	27.935	ug/L	99
57) Isopropylbenzene	12.46	105	706314	27.770	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	134148	27.865	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	97773	27.234	ug/L	99
62) Bromoform	12.35	173	85654	27.166	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	329340	26.381	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	332164	26.478	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	300454	26.563	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	21540	27.706	ug/L	87
67) 1,3,5-Trichlorobenzene	14.63	180	256622	27.651	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	210018	26.655	ug/L	99
69) Naphthalene	15.36	128	385659	27.013	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	188196	26.672	ug/L	99

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

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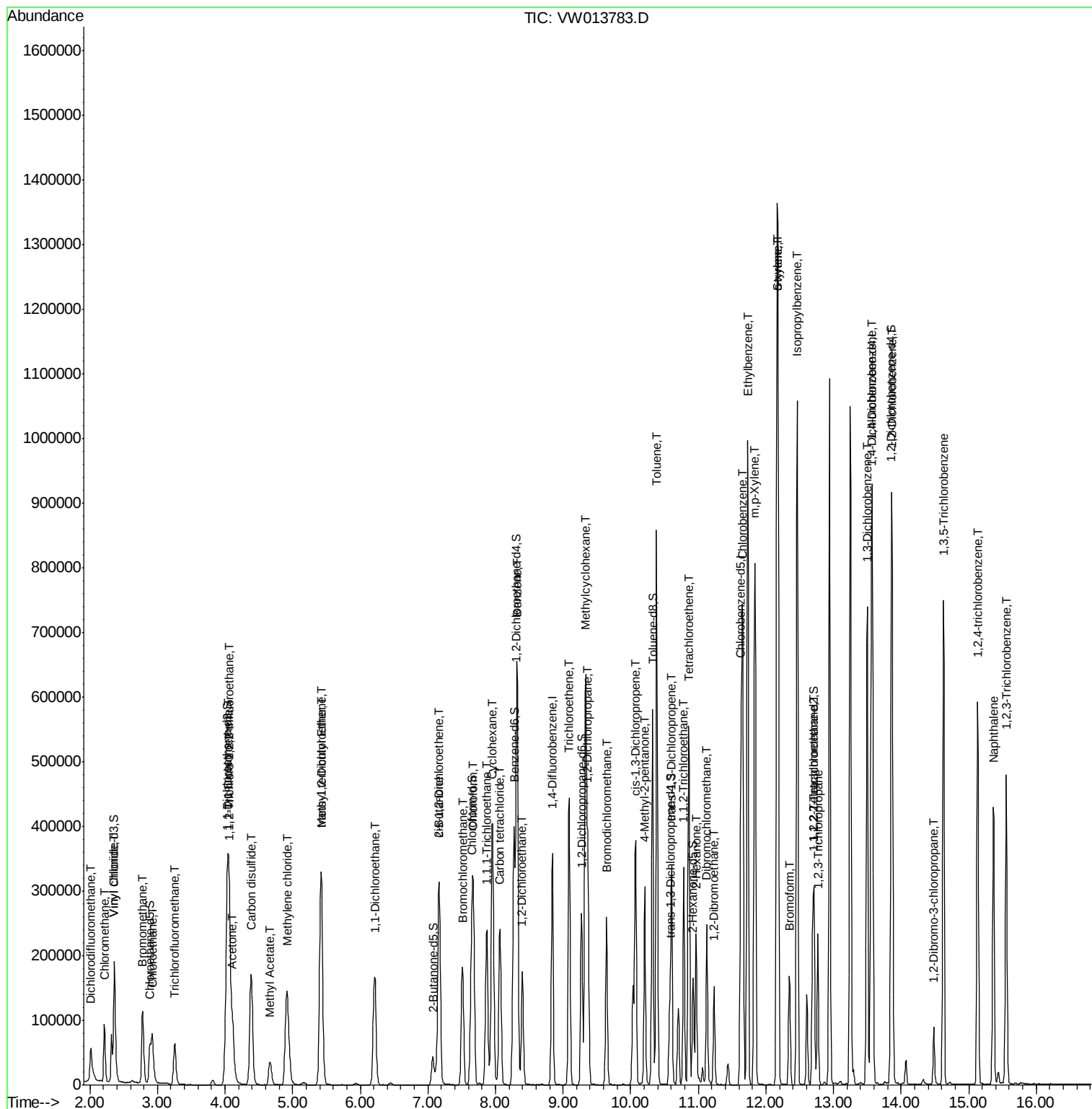
Quant Time: Oct 30 06:59:28 2019

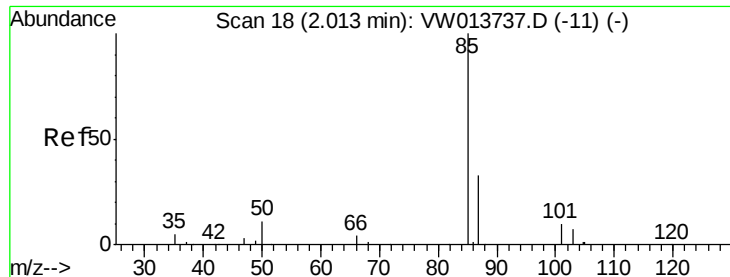
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M

Quant Title : VOC Analysis

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#2

Dichlorodifluoromethane

Concen: 25.717 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

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Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

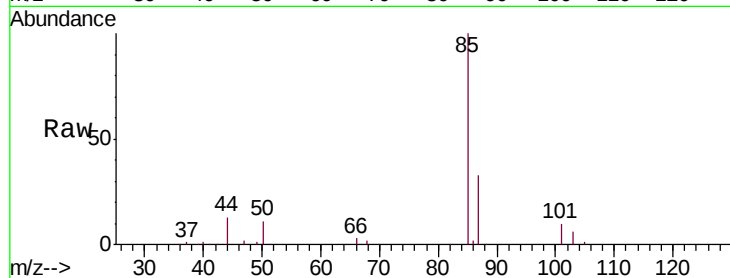
VSTD02530

Tgt Ion: 85 Resp: 90647

Ion Ratio Lower Upper

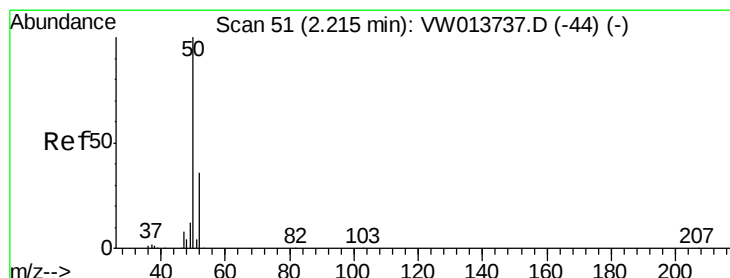
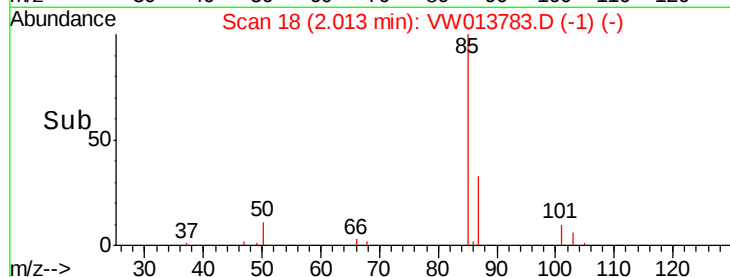
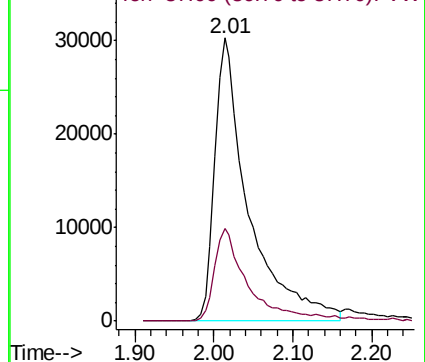
85 100

87 31.3 20.2 37.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 22.395 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW013783.D

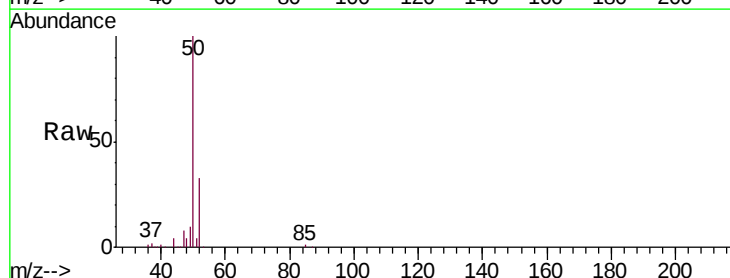
Acq: 29 Oct 2019 09:38

Tgt Ion: 50 Resp: 85450

Ion Ratio Lower Upper

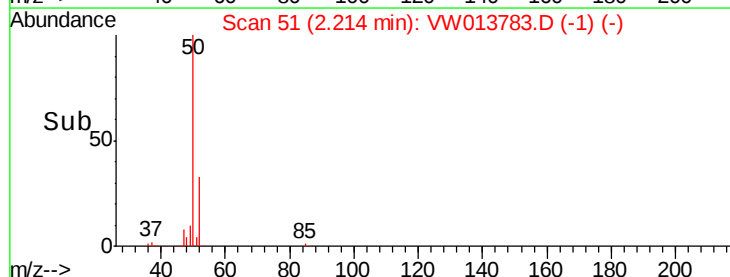
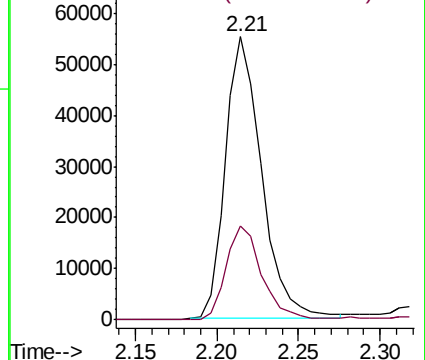
50 100

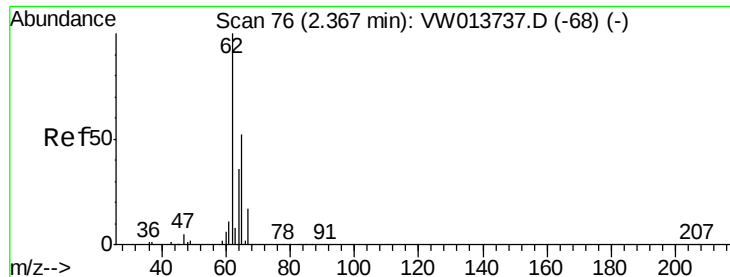
52 33.1 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 29.772 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

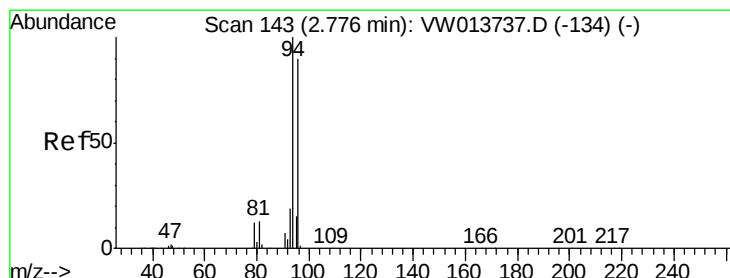
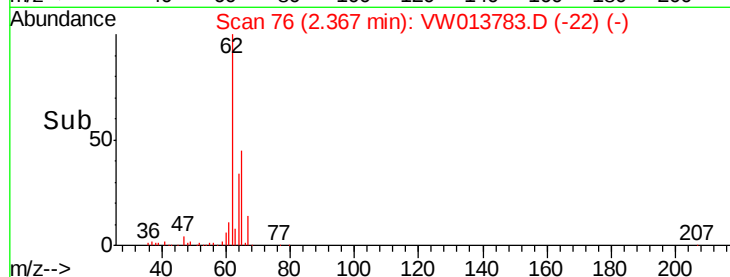
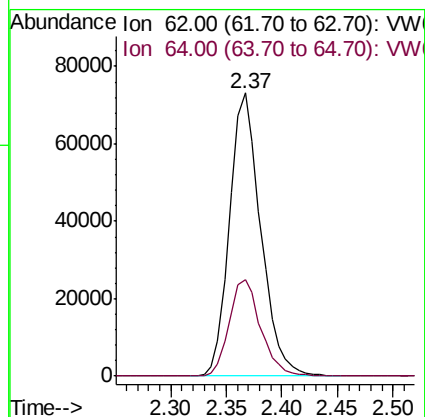
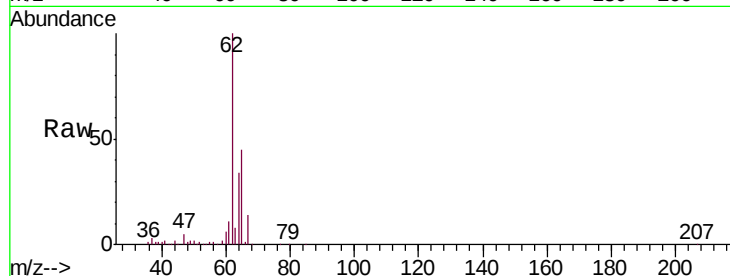
VSTD02530

Tgt Ion: 62 Resp: 141961

Ion Ratio Lower Upper

62 100

64 34.0 23.9 44.5



#6

Bromomethane

Concen: 25.667 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW013783.D

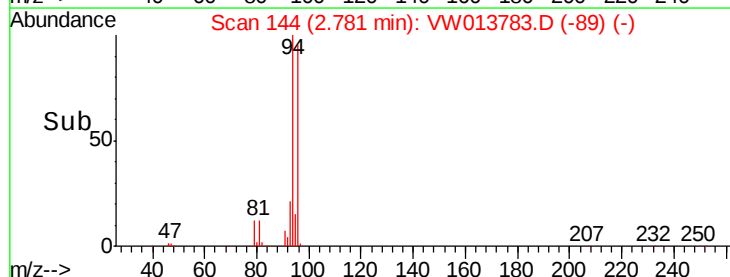
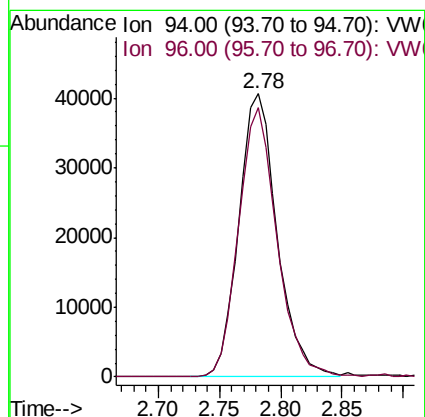
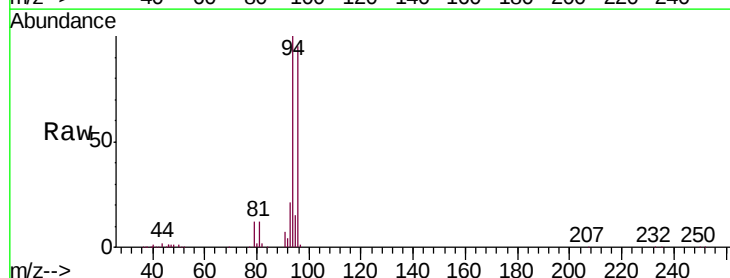
Acq: 29 Oct 2019 09:38

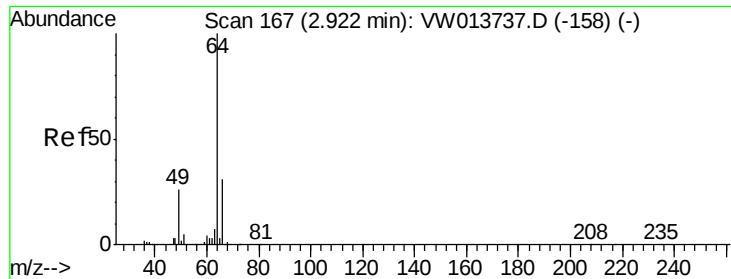
Tgt Ion: 94 Resp: 88435

Ion Ratio Lower Upper

94 100

96 95.2 9.3 176.9





#8

Chloroethane

Concen: 26.586 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

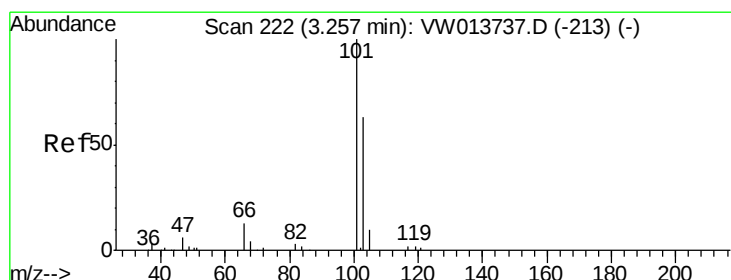
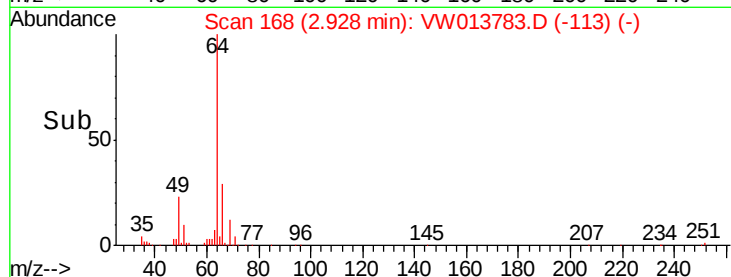
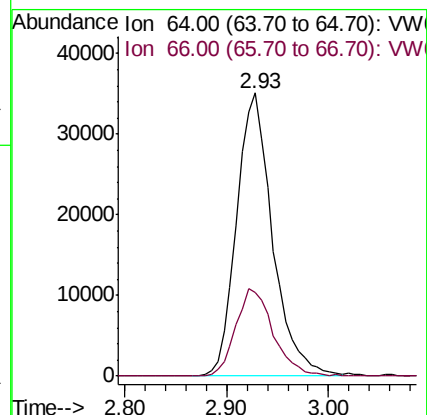
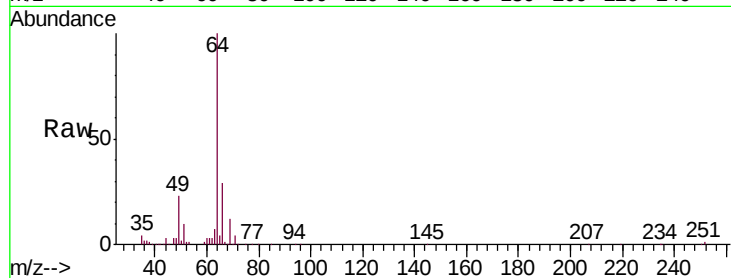
VSTD02530

Tgt Ion: 64 Resp: 85668

Ion Ratio Lower Upper

64 100

66 29.4 22.2 41.2



#9

Trichlorofluoromethane

Concen: 23.378 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW013783.D

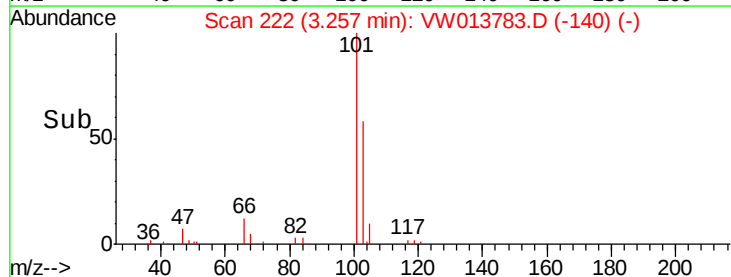
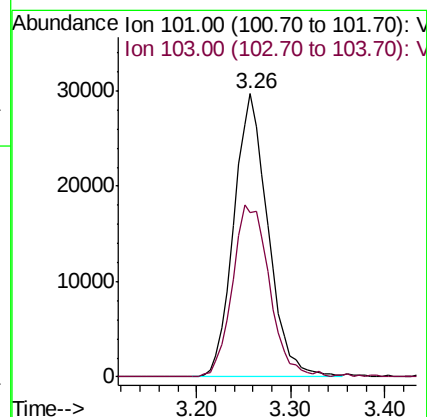
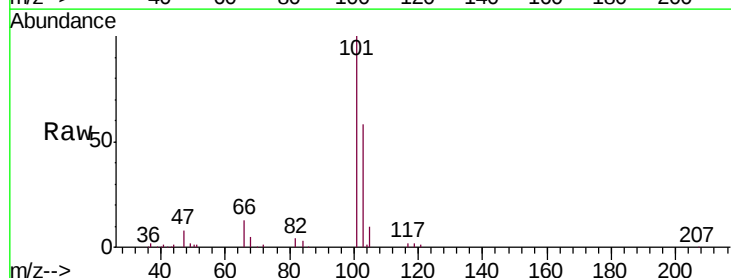
Acq: 29 Oct 2019 09:38

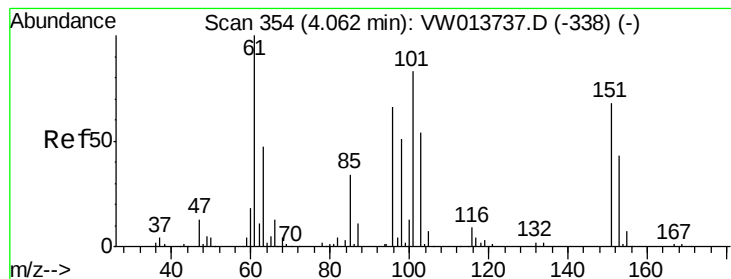
Tgt Ion: 101 Resp: 75135

Ion Ratio Lower Upper

101 100

103 65.0 46.5 86.5





#11

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

Concen: 27.477 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

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ClientSampleId :

VSTD02530

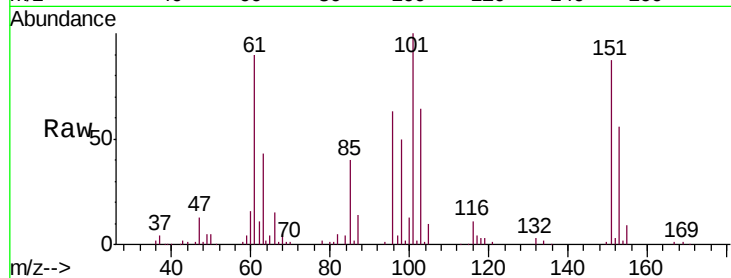
Tgt Ion: 101 Resp: 139052

Ion Ratio Lower Upper

101 100

85 40.2 32.0 48.0

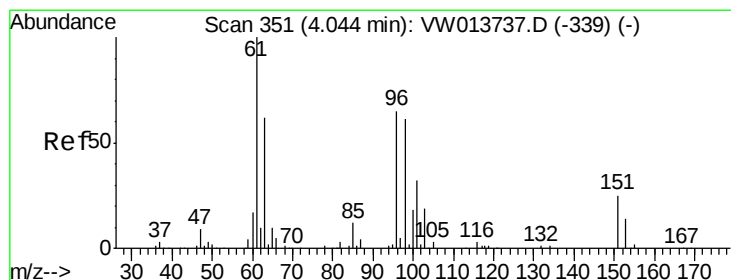
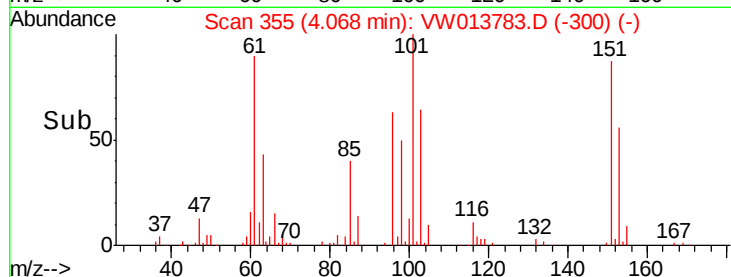
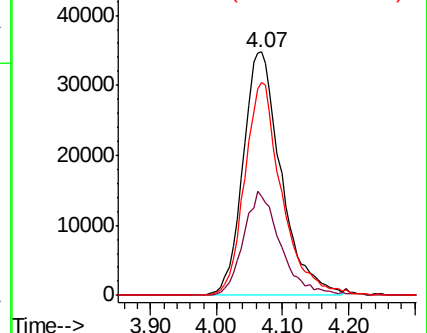
151 84.0 66.9 100.3



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: 28.435 ug/L

RT: 4.04 min Scan# 351

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

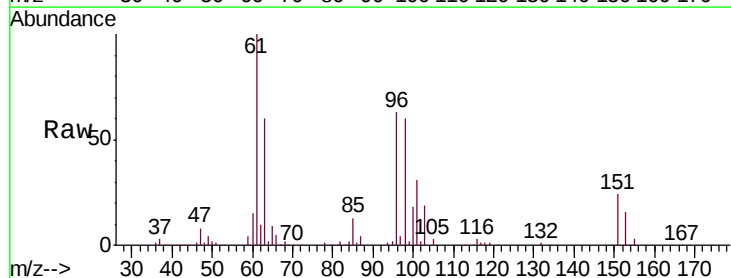
Tgt Ion: 96 Resp: 141622

Ion Ratio Lower Upper

96 100

61 158.7 112.7 209.3

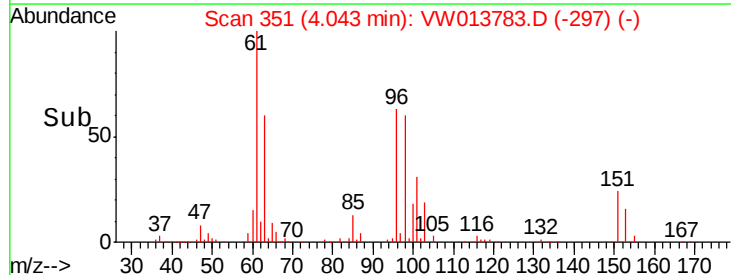
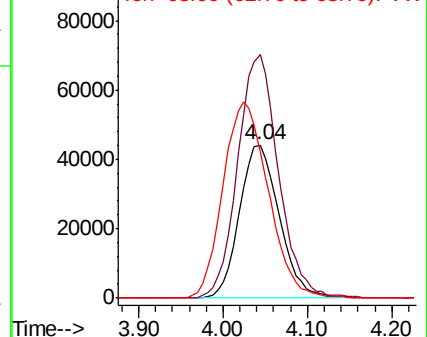
63 95.3 72.8 135.2

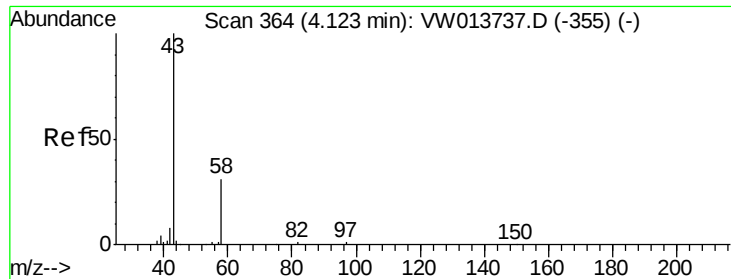


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 55.746 ug/L

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

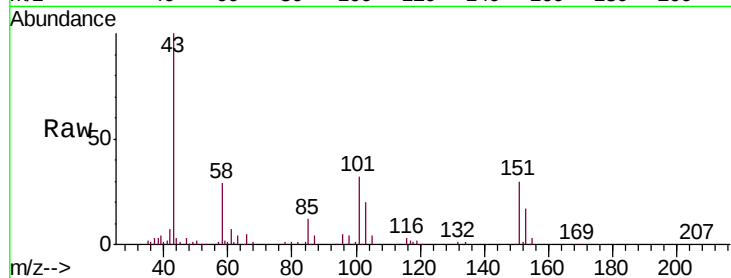
VSTD02530

Tgt Ion: 43 Resp: 85085

Ion Ratio Lower Upper

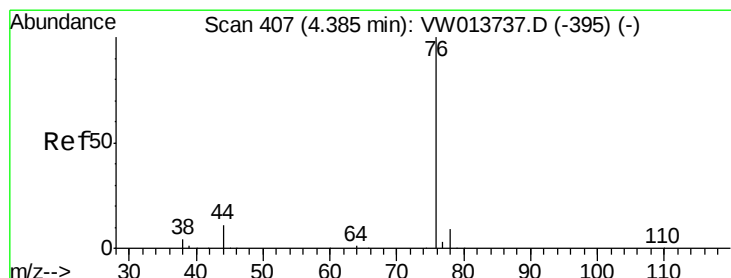
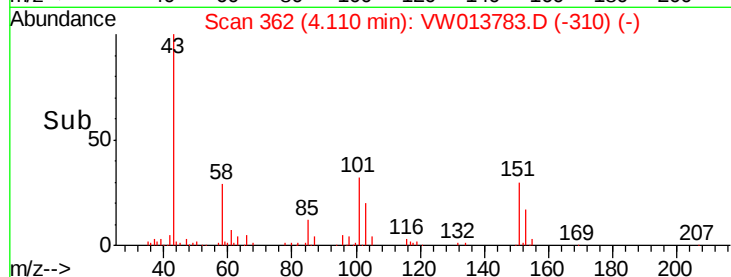
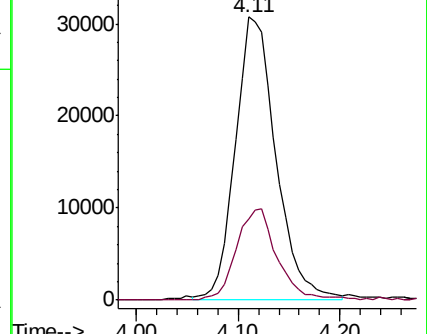
43 100

58 32.2 0.0 70.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 28.542 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW013783.D

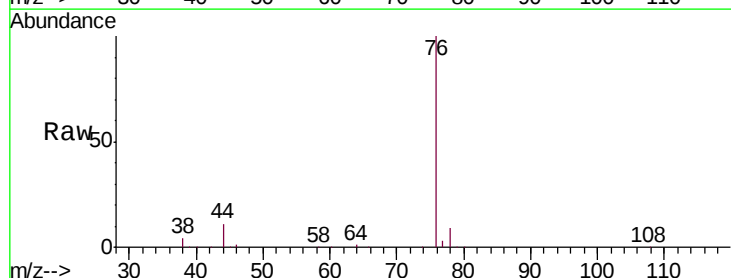
Acq: 29 Oct 2019 09:38

Tgt Ion: 76 Resp: 406752

Ion Ratio Lower Upper

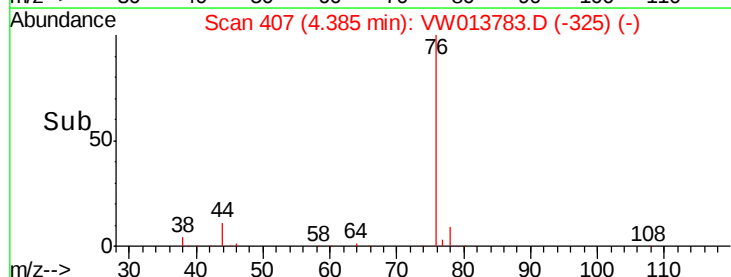
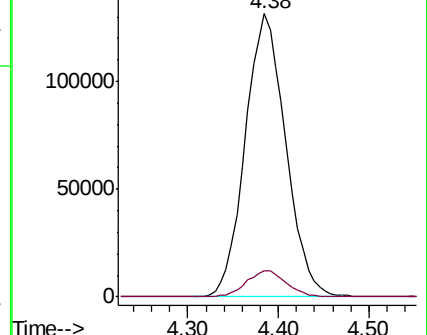
76 100

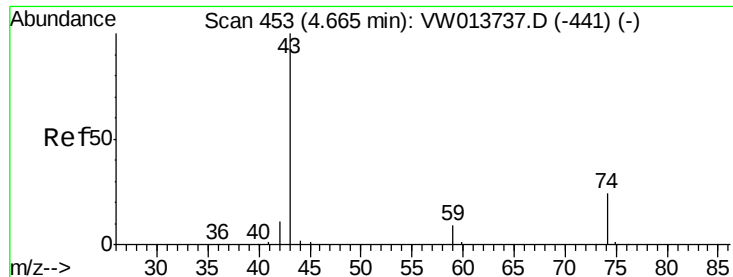
78 9.0 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

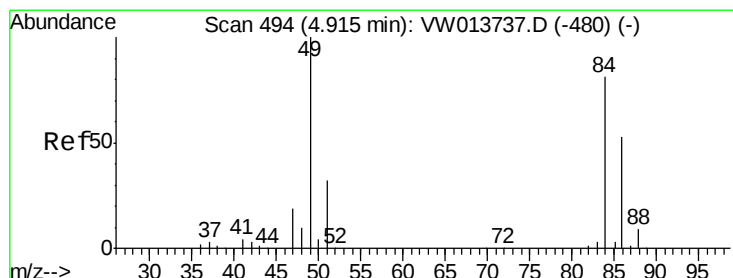
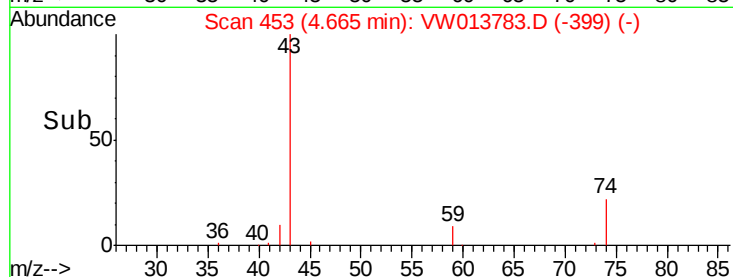
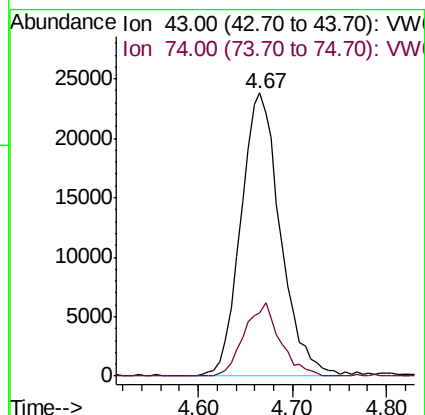
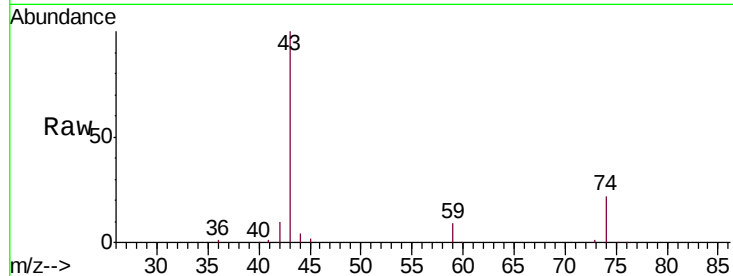




#15
Methyl Acetate
Concen: 28.054 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW013783.D
Acq: 29 Oct 2019 09:38

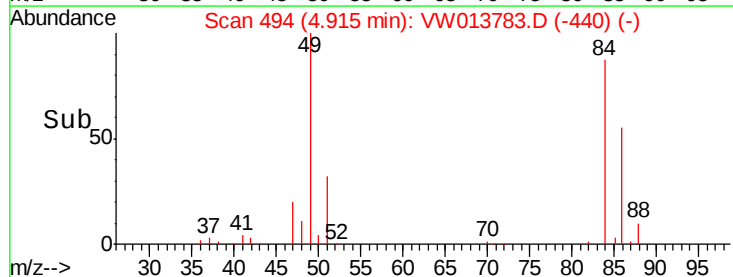
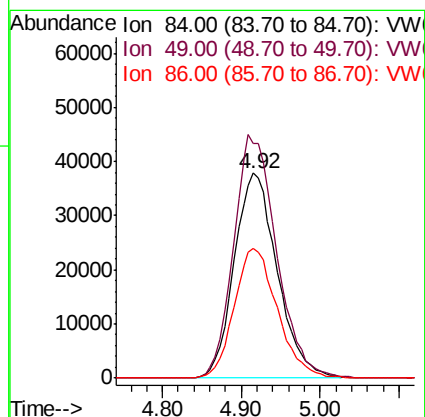
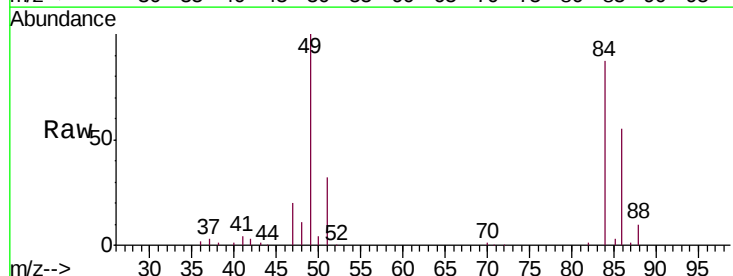
Instrument :
MSVOA_W
ClientSampled :
VSTD02530

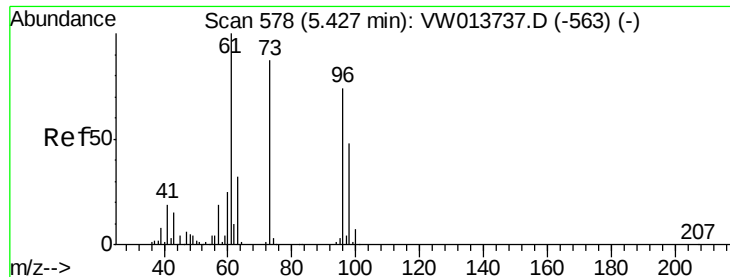
Tgt Ion: 43 Resp: 69964
Ion Ratio Lower Upper
43 100
74 23.4 19.2 28.8



#16
Methylene chloride
Concen: 23.883 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW013783.D
Acq: 29 Oct 2019 09:38

Tgt Ion: 84 Resp: 143320
Ion Ratio Lower Upper
84 100
49 114.3 80.2 148.9
86 63.2 42.7 79.3





#17

Methyl tert-butyl Ether

Concen: 26.433 ug/L

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

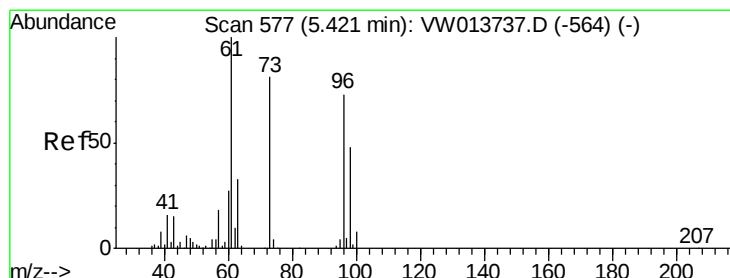
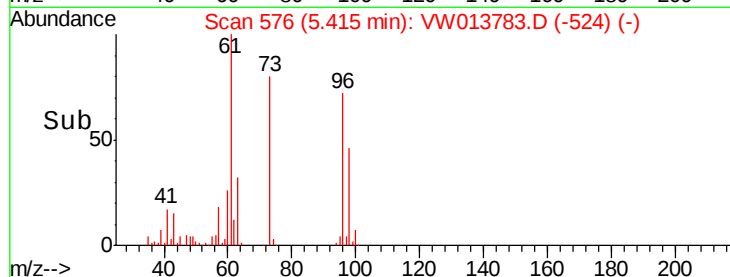
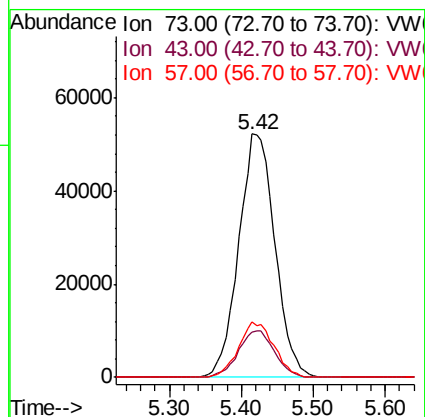
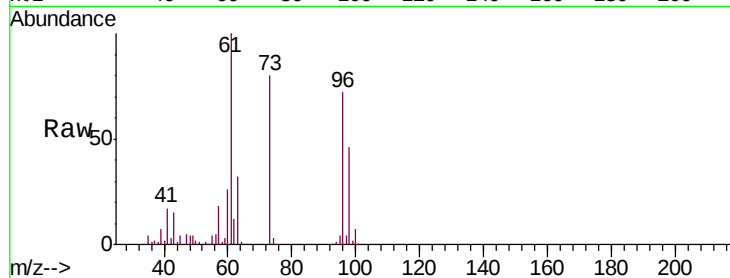
Tgt Ion: 73 Resp: 182159

Ion Ratio Lower Upper

73 100

43 19.1 15.4 23.2

57 22.4 17.7 26.5



#18

trans-1,2-Dichloroethene

Concen: 26.740 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

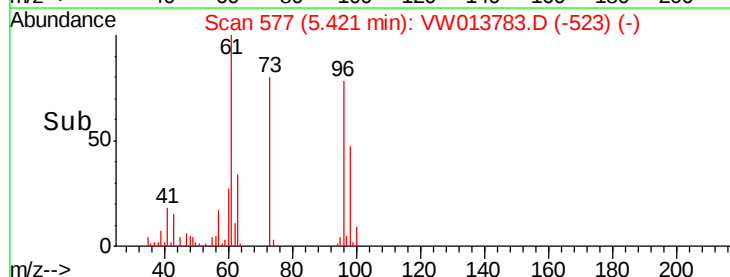
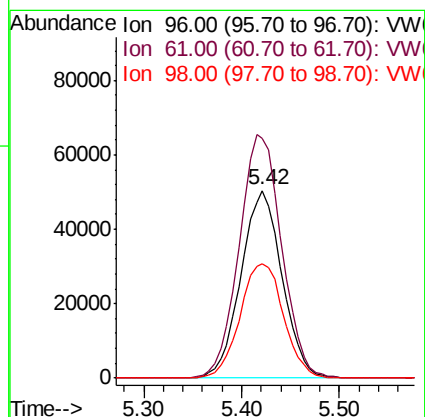
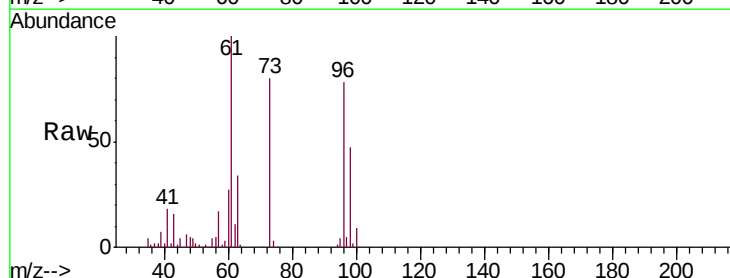
Tgt Ion: 96 Resp: 147223

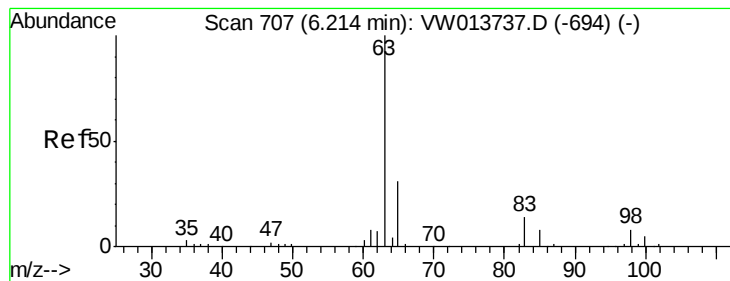
Ion Ratio Lower Upper

96 100

61 128.1 88.4 164.2

98 60.7 43.0 79.8





#19

1,1-Dichloroethane

Concen: 27.020 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampled :

VSTD02530

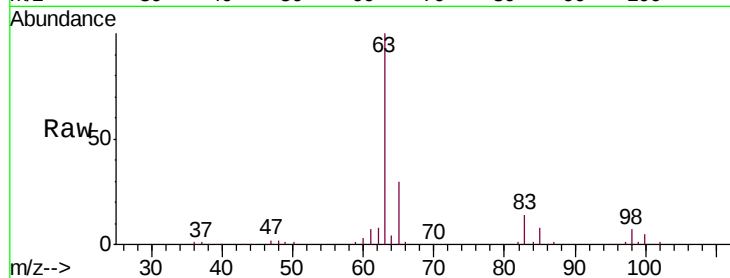
Tgt Ion: 63 Resp: 251807

Ion Ratio Lower Upper

63 100

65 30.4 20.9 38.7

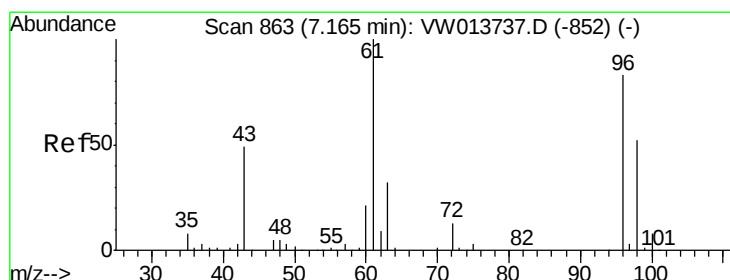
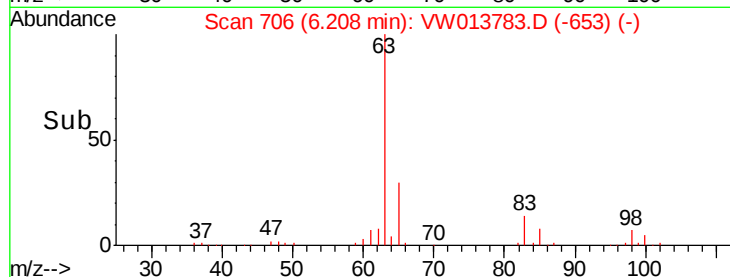
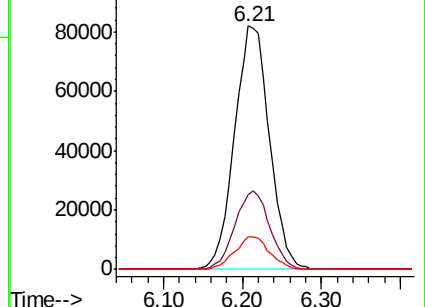
83 13.6 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 53.976 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW013783.D

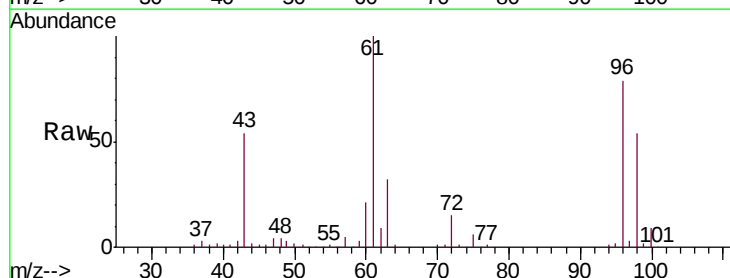
Acq: 29 Oct 2019 09:38

Tgt Ion: 43 Resp: 104600

Ion Ratio Lower Upper

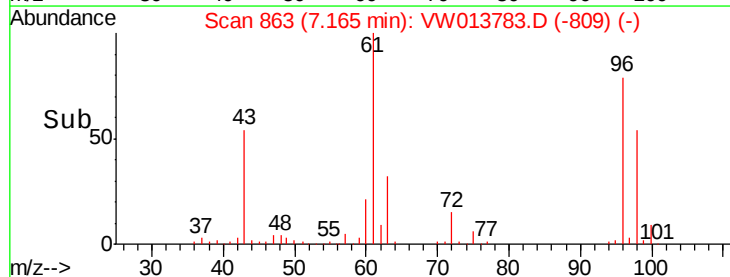
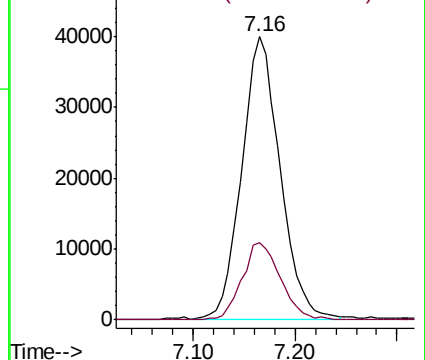
43 100

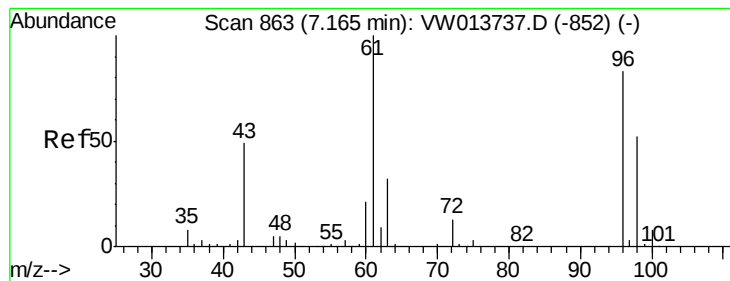
72 27.1 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



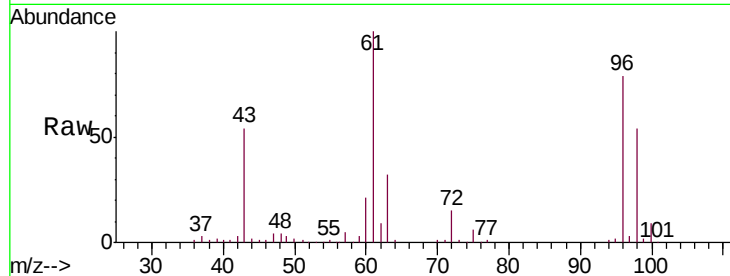


#22

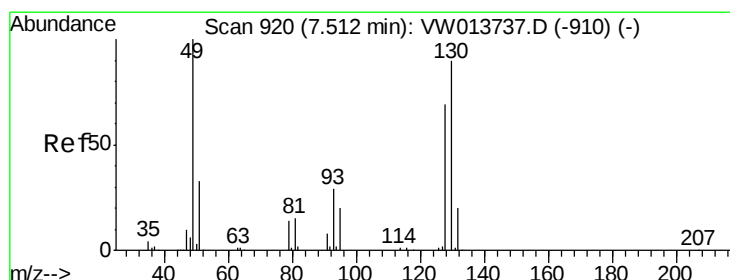
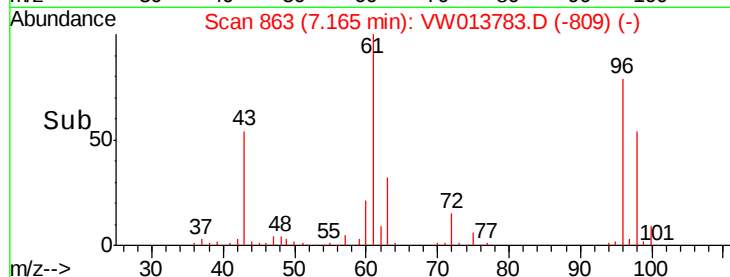
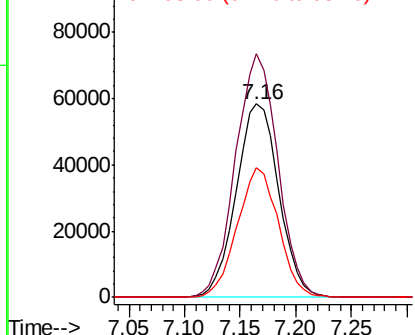
cis-1,2-Dichloroethene
 Concen: 26.334 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

Tgt Ion: 96 Resp: 155628
 Ion Ratio Lower Upper
 96 100
 61 125.9 86.2 160.0
 98 67.4 43.0 79.8



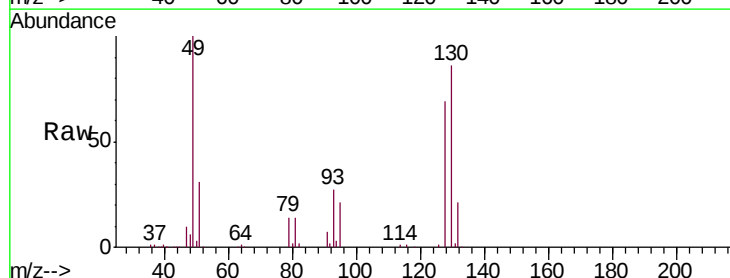
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



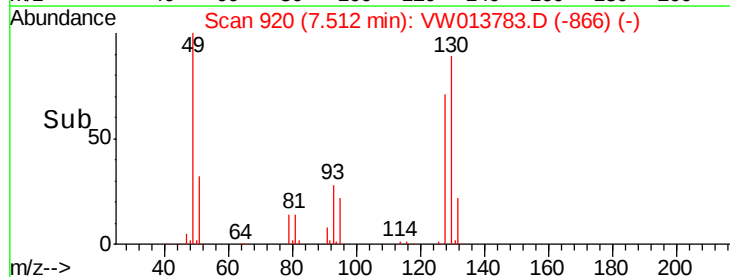
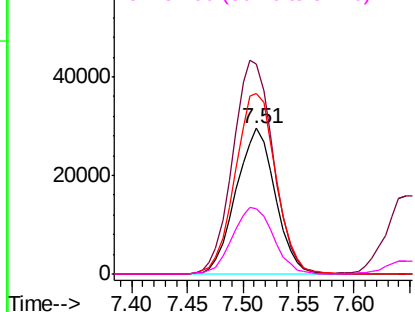
#23

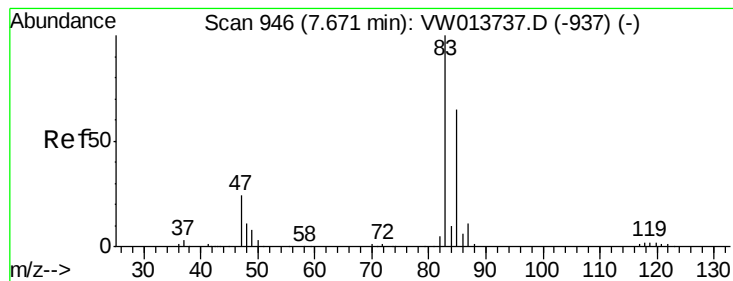
Bromochloromethane
 Concen: 27.129 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

Tgt Ion: 128 Resp: 72465
 Ion Ratio Lower Upper
 128 100
 49 144.4 106.3 197.3
 130 124.1 93.2 173.2
 51 44.8 37.4 56.0



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VW
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 27.165 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

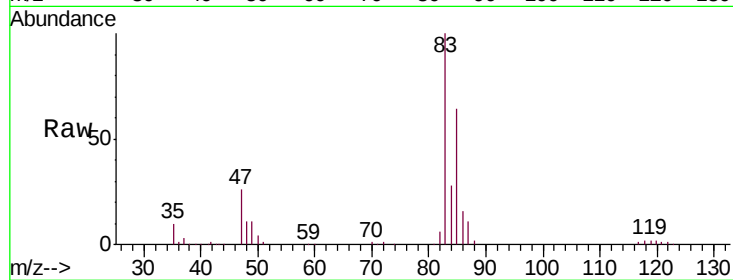
VSTD02530

Tgt Ion: 83 Resp: 254303

Ion Ratio Lower Upper

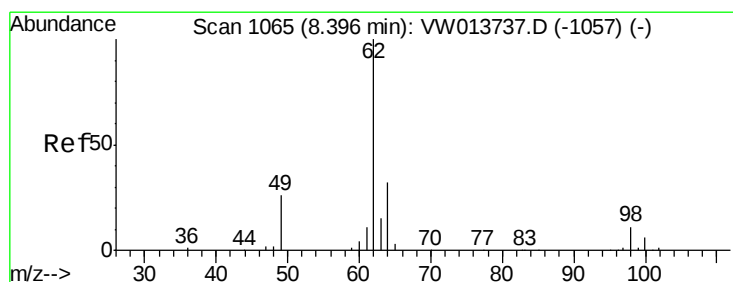
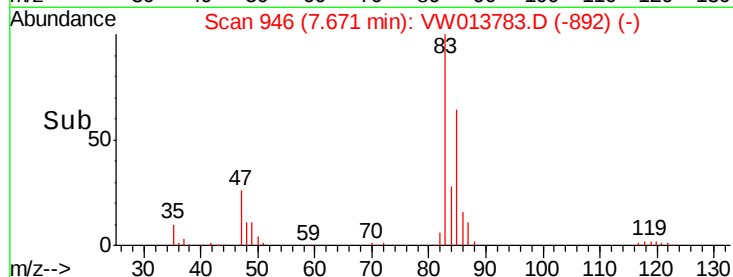
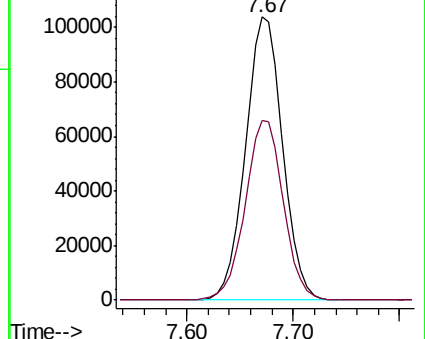
83 100

85 65.2 46.1 85.7



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 26.865 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW013783.D

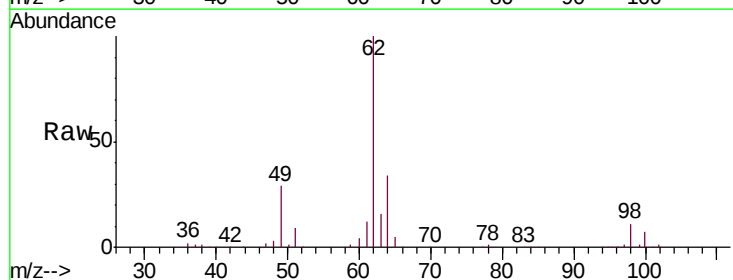
Acq: 29 Oct 2019 09:38

Tgt Ion: 62 Resp: 161188

Ion Ratio Lower Upper

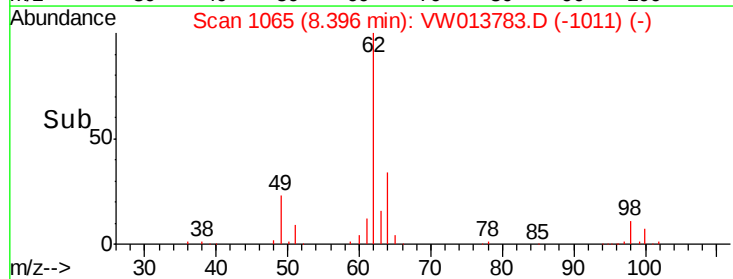
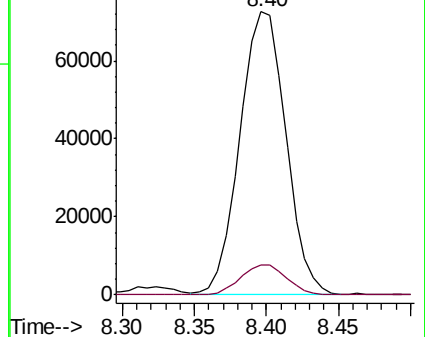
62 100

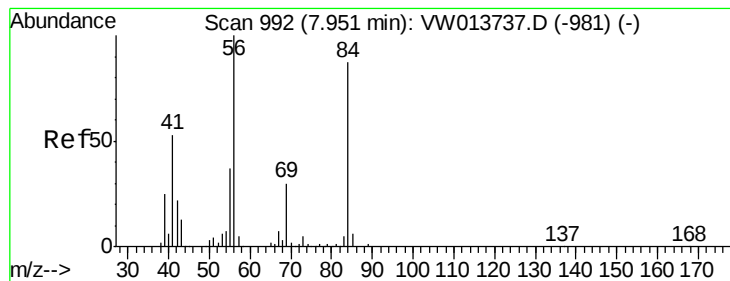
98 10.6 9.6 14.4



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW





#30

Cyclohexane

Concen: 27.556 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

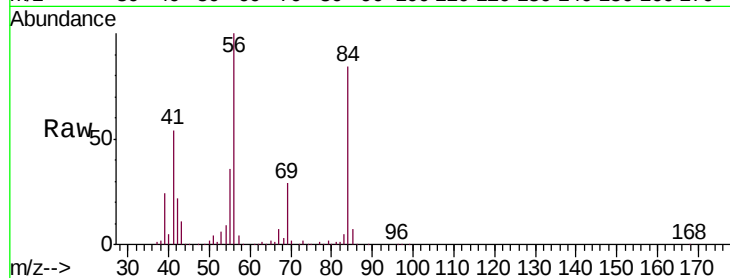
Tgt Ion: 56 Resp: 245076

Ion Ratio Lower Upper

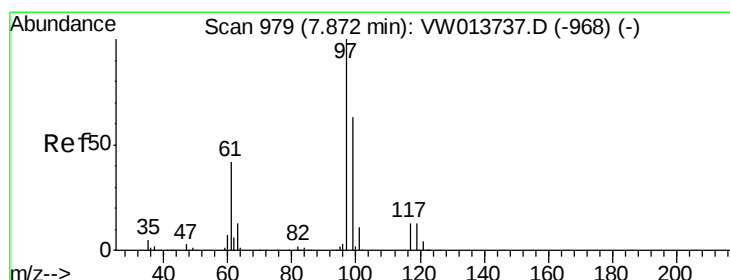
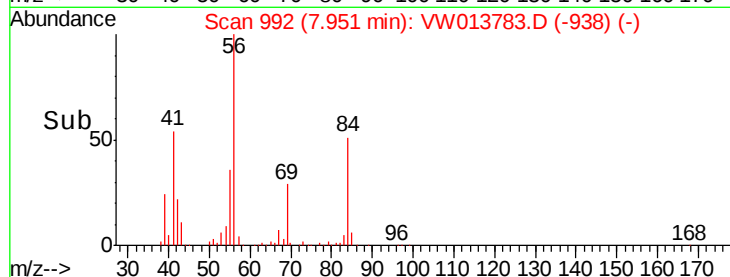
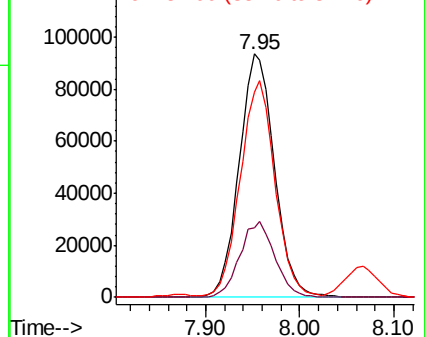
56 100

69 30.8 24.6 37.0

84 88.1 71.1 106.7



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 28.053 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

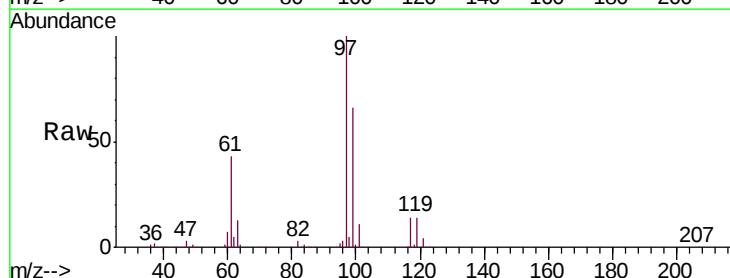
Tgt Ion: 97 Resp: 198636

Ion Ratio Lower Upper

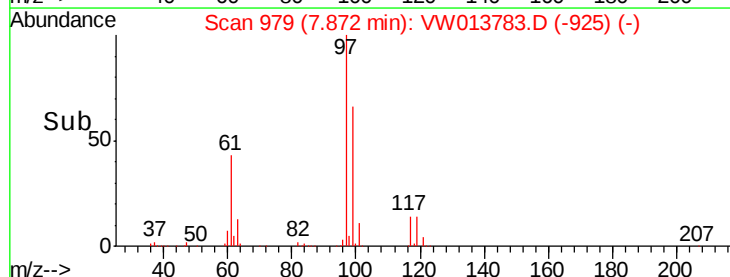
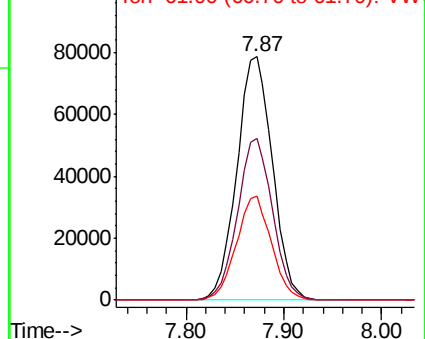
97 100

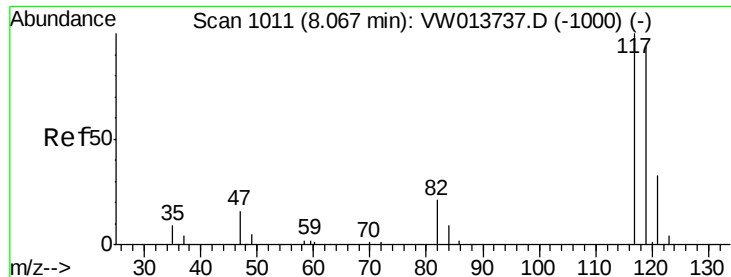
99 65.4 51.7 77.5

61 42.0 33.8 50.8



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 28.158 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

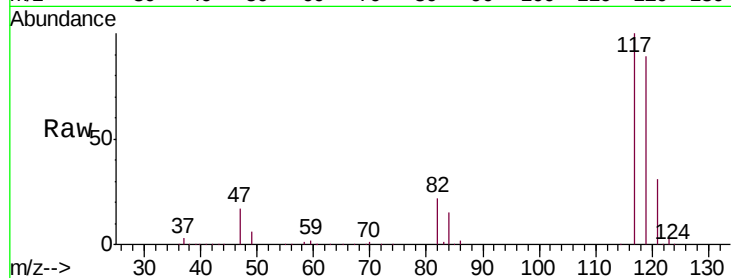
VSTD02530

Tgt Ion:117 Resp: 194148

Ion Ratio Lower Upper

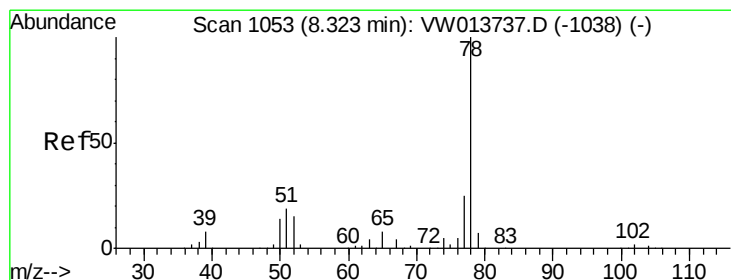
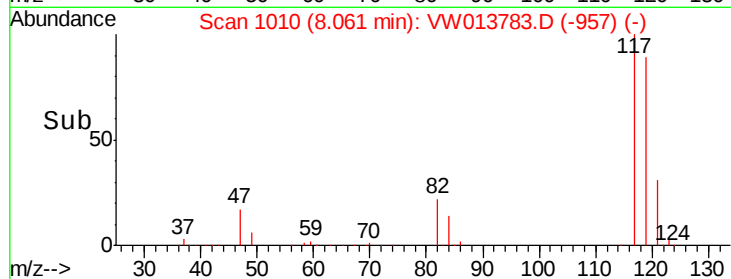
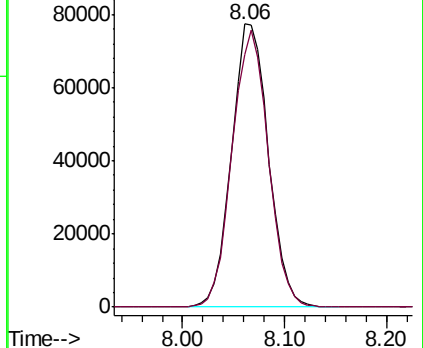
117 100

119 95.6 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 27.260 ug/L

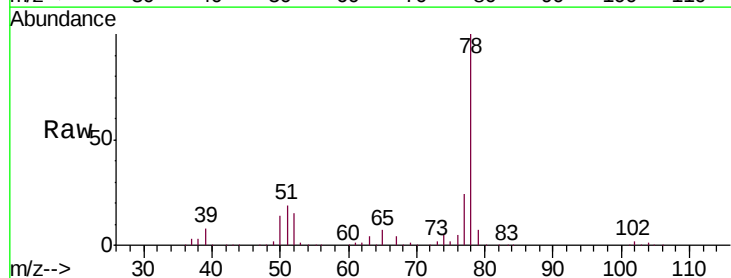
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

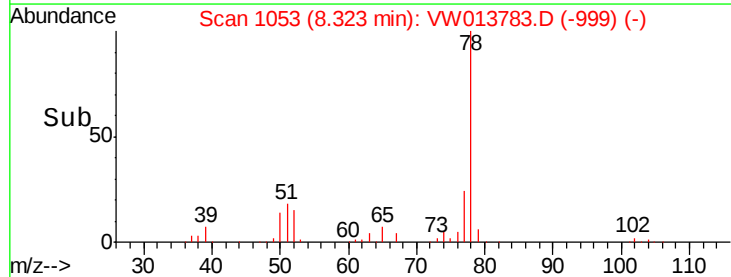
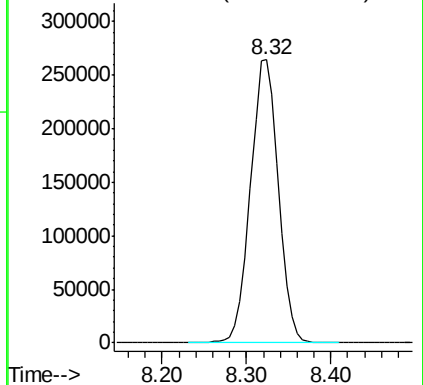
Lab File: VW013783.D

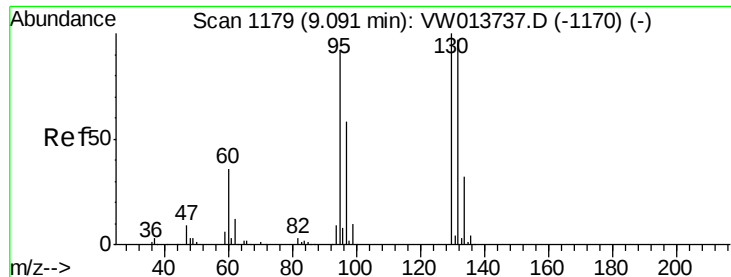
Acq: 29 Oct 2019 09:38

Tgt Ion: 78 Resp: 593791



Abundance Ion 78.00 (77.70 to 78.70): VW

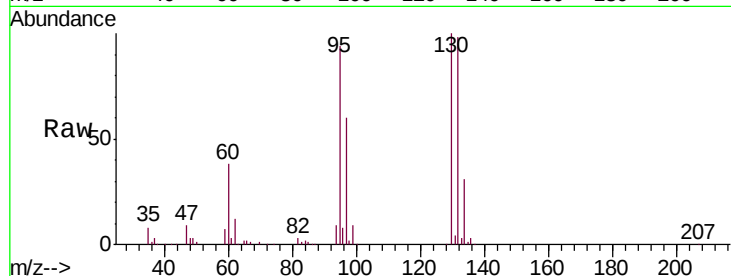




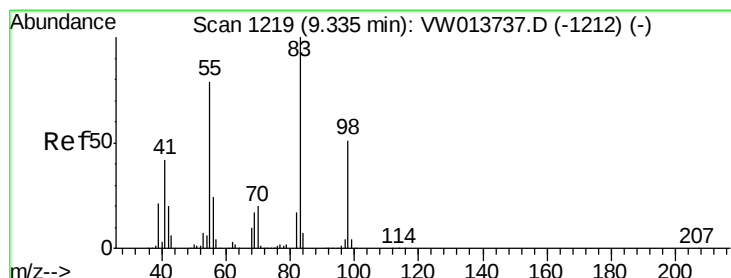
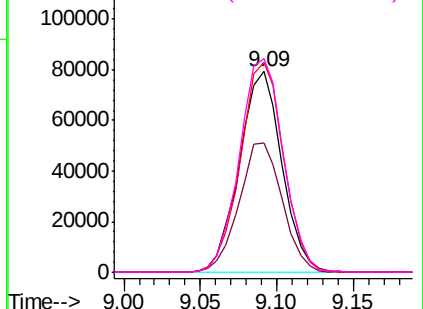
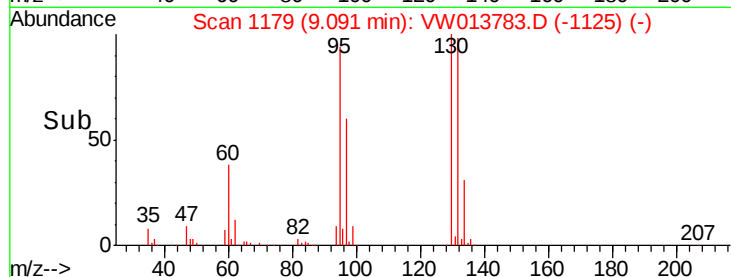
#35
 Trichloroethene
 Concen: 27.398 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

Tgt Ion:	95	Resp:	153115
Ion	Ratio	Lower	Upper
95	100		
97	65.6	45.8	85.2
132	106.1	74.3	138.1
130	110.3	76.6	142.3

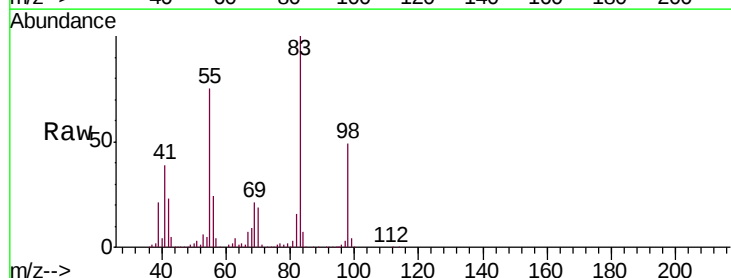


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

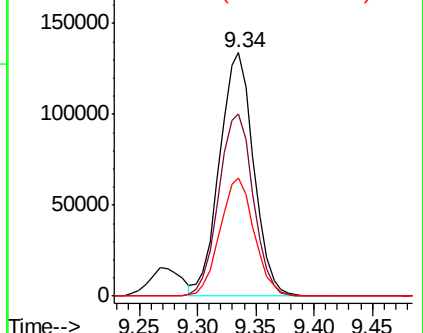
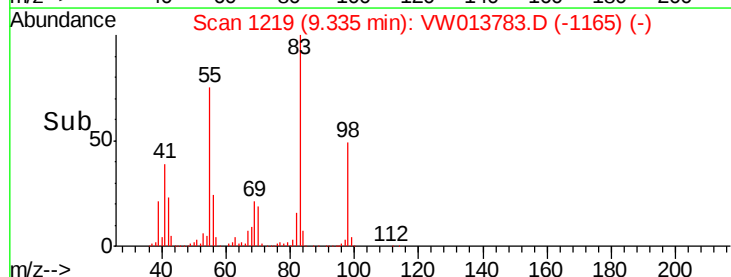


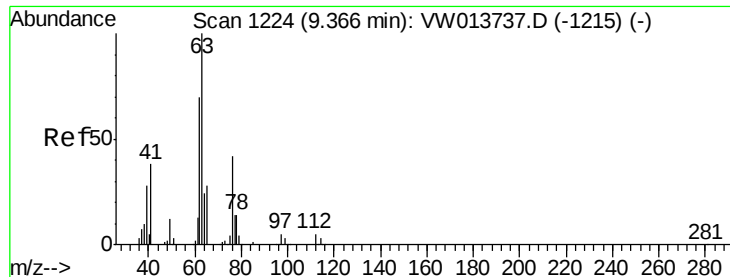
#36
 Methylcyclohexane
 Concen: 27.588 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

Tgt Ion:	83	Resp:	271758
Ion	Ratio	Lower	Upper
83	100		
55	75.8	60.2	90.4
98	48.8	39.1	58.7



Abundance Ion 83.00 (82.70 to 83.70): VW
 Ion 55.00 (54.70 to 55.70): VW
 Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 27.099 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

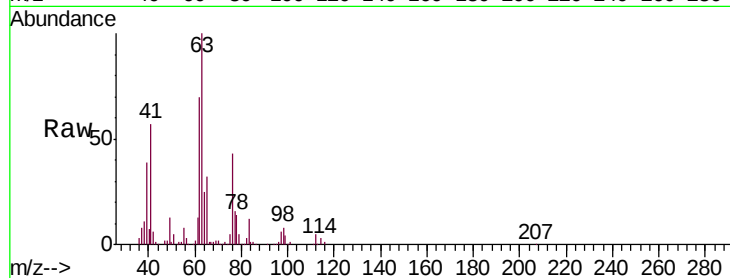
VSTD02530

Tgt Ion: 63 Resp: 144327

Ion Ratio Lower Upper

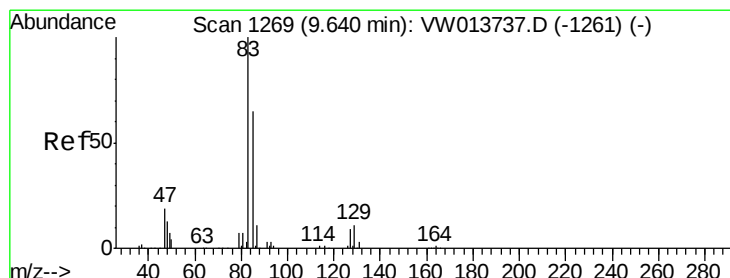
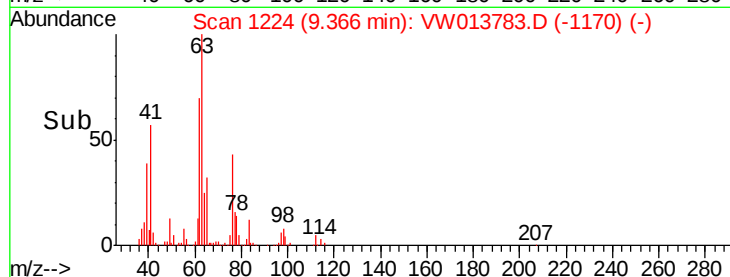
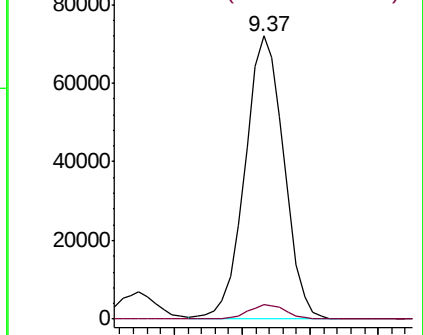
63 100

112 5.0 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 27.884 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

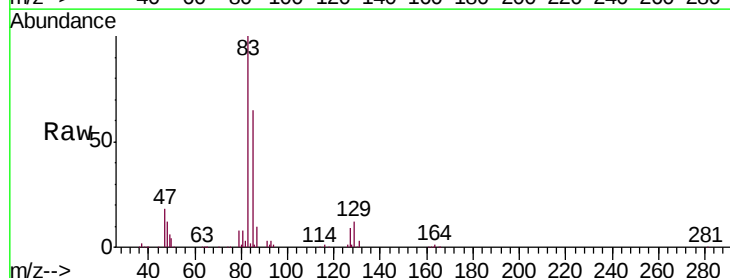
Tgt Ion: 83 Resp: 181963

Ion Ratio Lower Upper

83 100

85 64.7 45.8 85.0

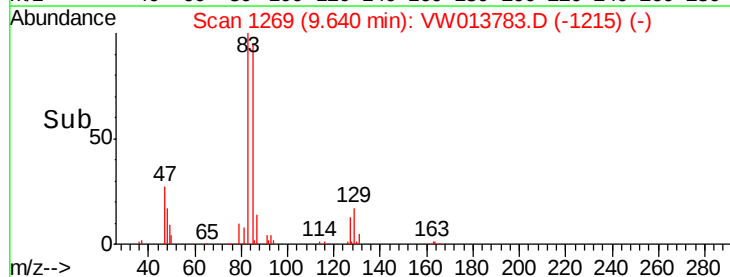
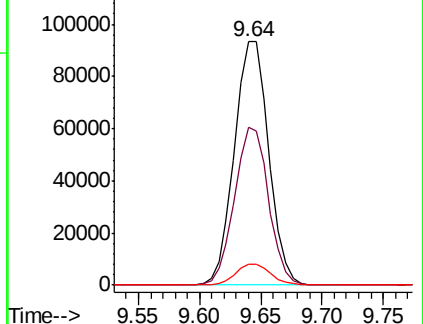
127 8.7 6.6 10.0

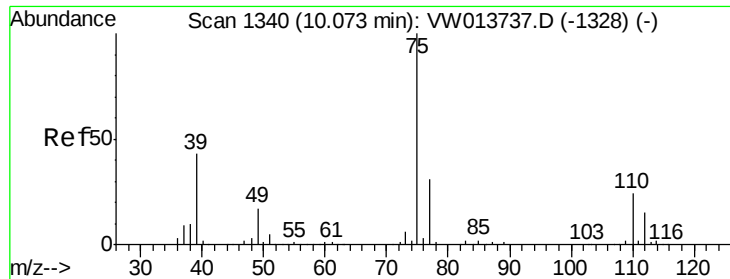


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

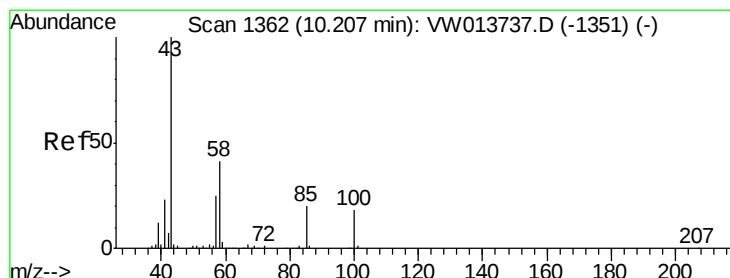
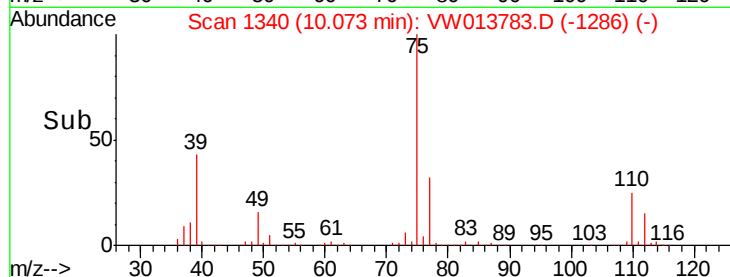
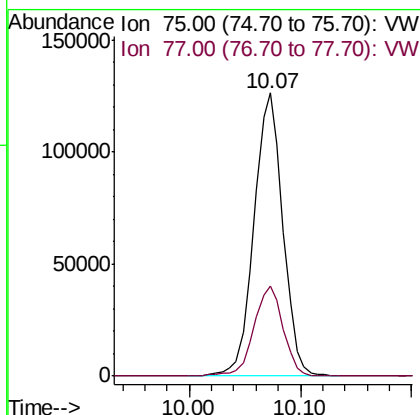
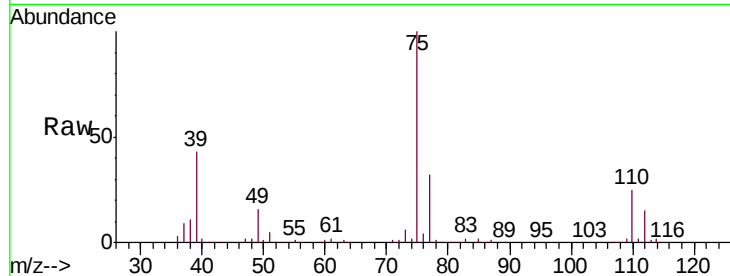




#42
 cis-1,3-Dichloropropene
 Concen: 27.153 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

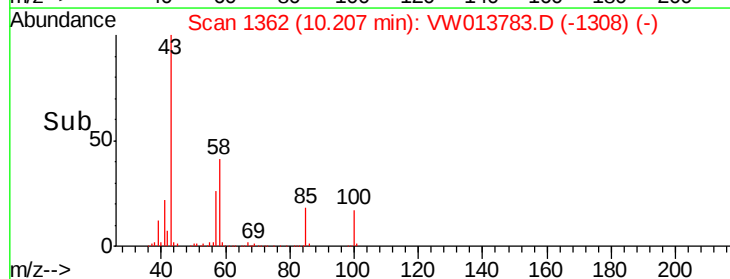
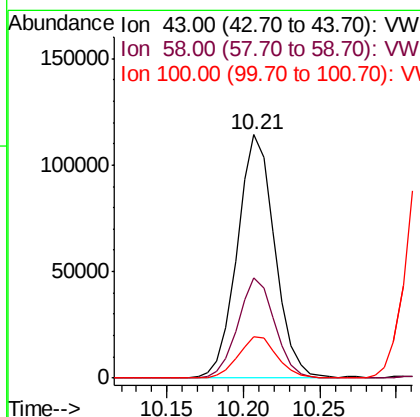
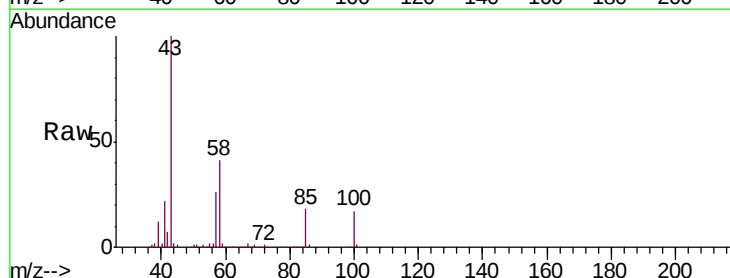
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

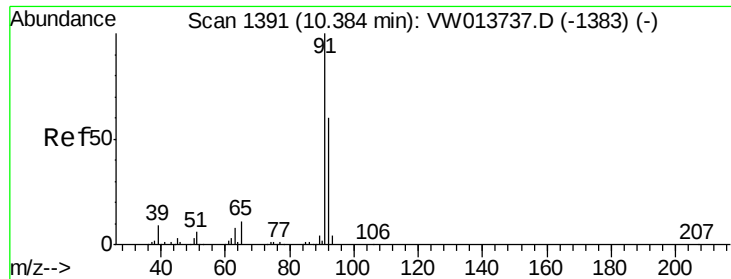
Tgt Ion: 75 Resp: 228323
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.5 41.9



#43
 4-Methyl-2-pentanone
 Concen: 53.402 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

Tgt Ion: 43 Resp: 194047
 Ion Ratio Lower Upper
 43 100
 58 40.5 32.8 49.2
 100 17.6 13.7 20.5





#44

Toluene

Concen: 27.441 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

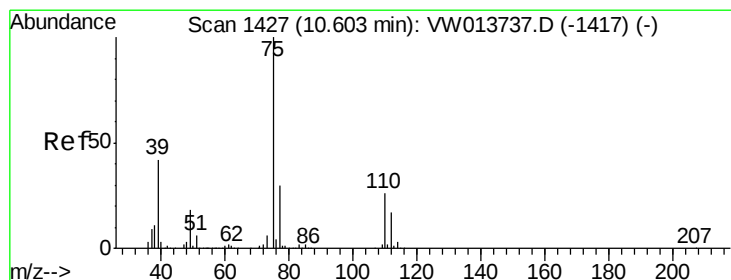
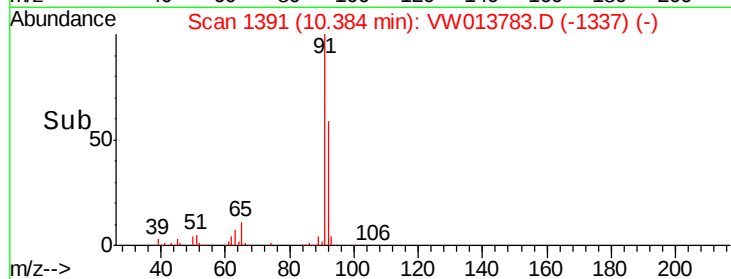
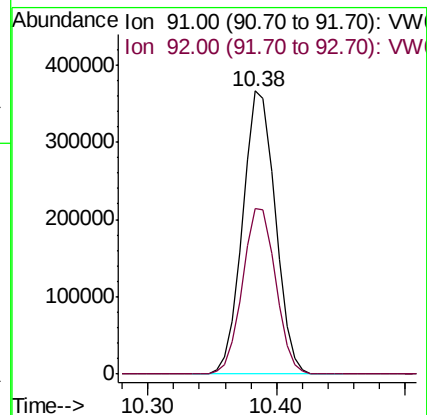
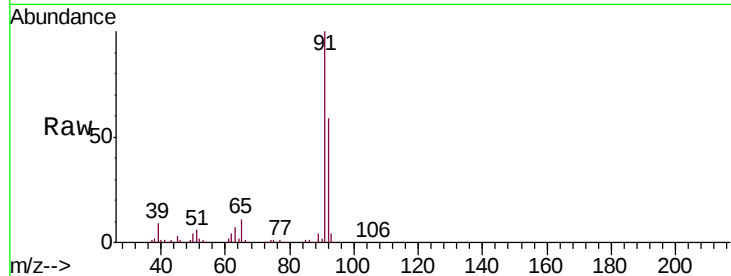
VSTD02530

Tgt Ion: 91 Resp: 642200

Ion Ratio Lower Upper

91 100

92 58.7 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 27.356 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013783.D

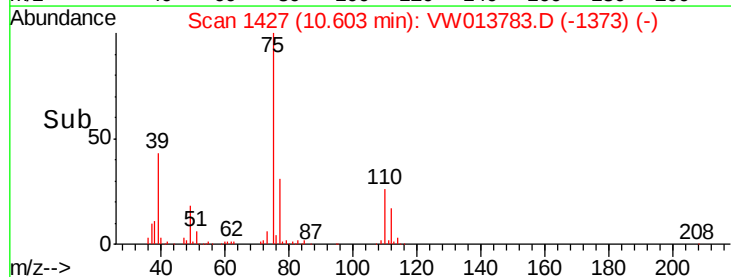
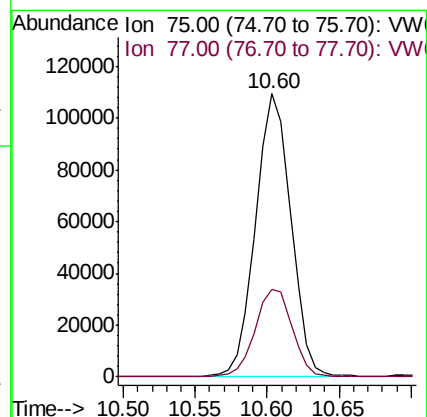
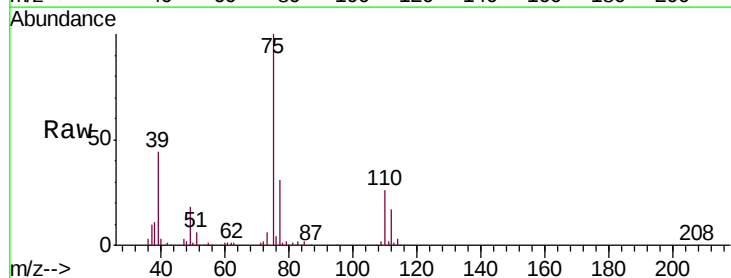
Acq: 29 Oct 2019 09:38

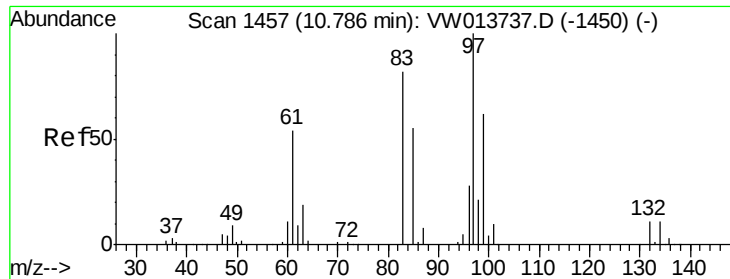
Tgt Ion: 75 Resp: 185680

Ion Ratio Lower Upper

75 100

77 30.8 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 27.238 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

Tgt Ion: 97 Resp: 111882

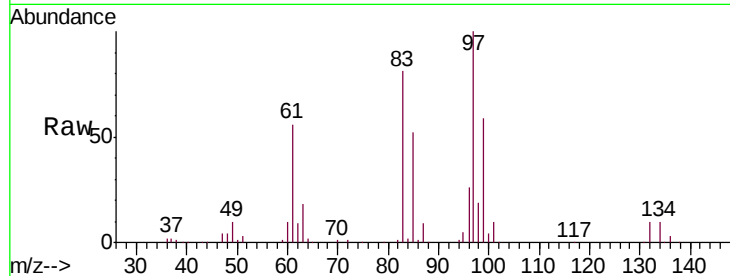
Ion Ratio Lower Upper

97 100

83 80.9 57.7 107.3

85 52.1 38.6 71.6

99 59.3 44.7 82.9

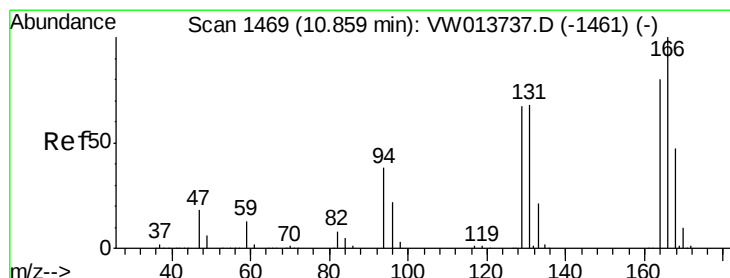
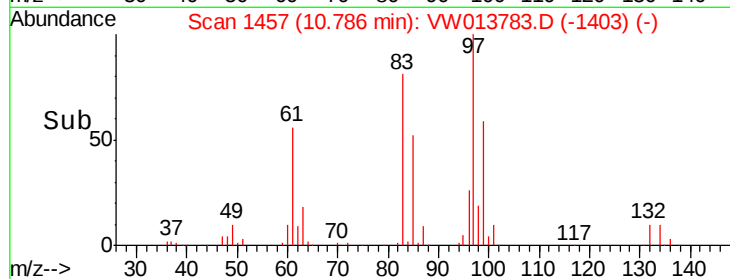
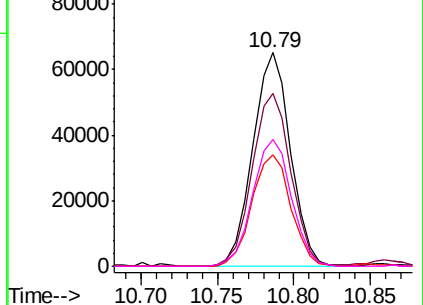


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 27.204 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Tgt Ion: 164 Resp: 139168

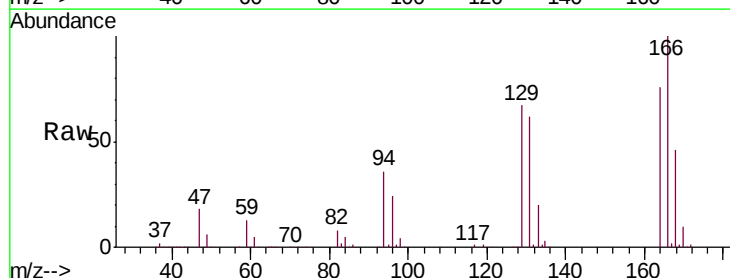
Ion Ratio Lower Upper

164 100

129 88.1 61.8 114.8

131 80.9 59.2 110.0

166 131.2 89.2 165.8

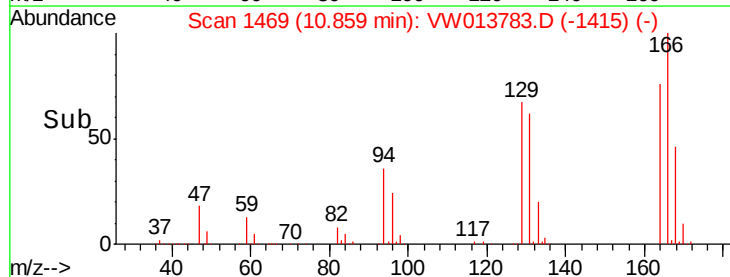
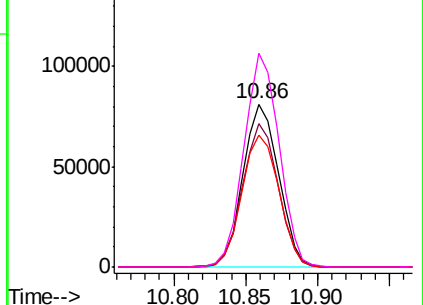


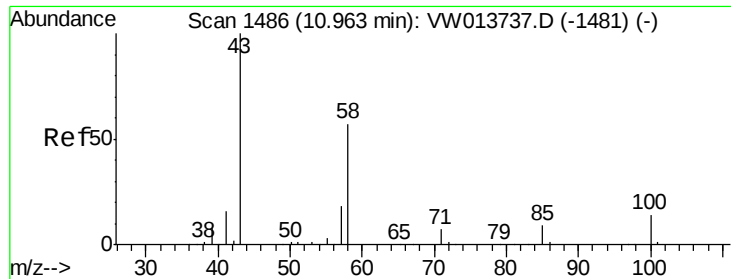
Abundance Ion 164.00 (163.70 to 164.70): V

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

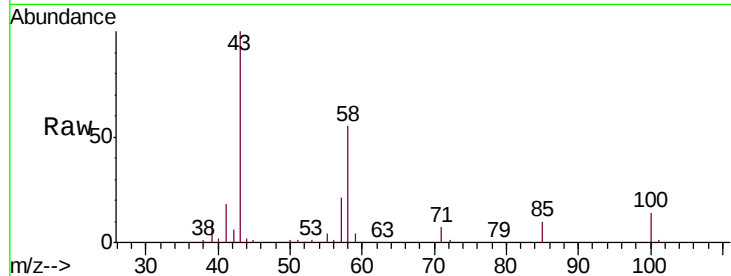




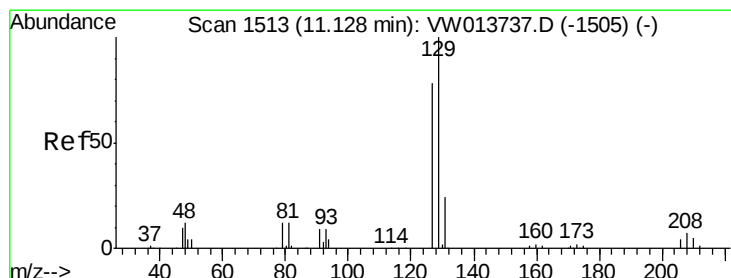
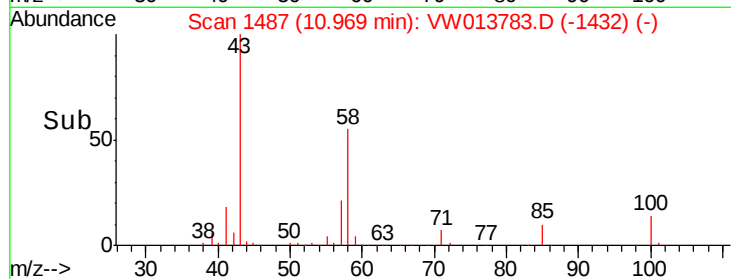
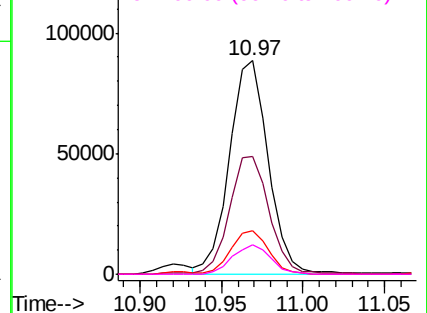
#49
2-Hexanone
Concen: 56.912 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW013783.D
Acq: 29 Oct 2019 09:38

Instrument :
MSVOA_W
ClientSampleId :
VSTD02530

Tgt Ion: 43 Resp: 146714
Ion Ratio Lower Upper
43 100
58 55.1 45.8 68.6
57 19.9 15.4 23.2
100 13.8 10.8 16.2

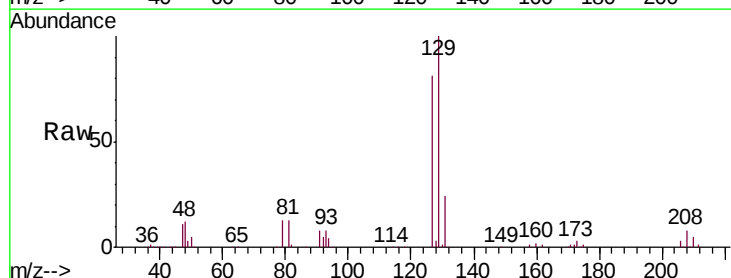


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

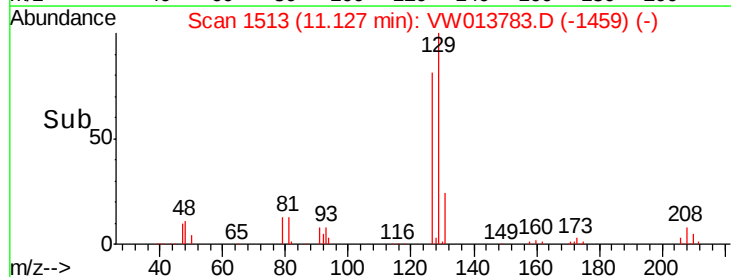
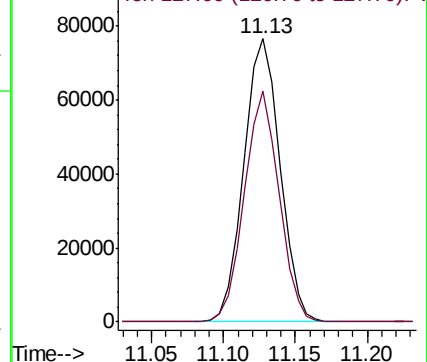


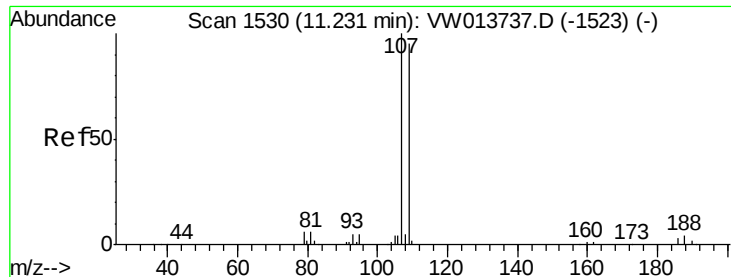
#50
Dibromochloromethane
Concen: 27.583 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013783.D
Acq: 29 Oct 2019 09:38

Tgt Ion: 129 Resp: 133713
Ion Ratio Lower Upper
129 100
127 81.4 51.4 95.5



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

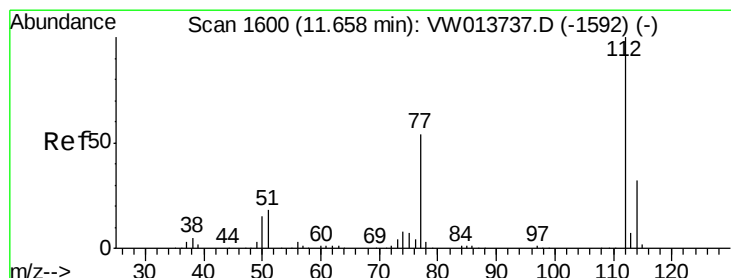
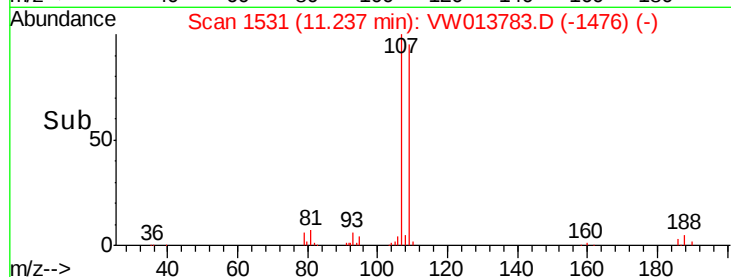
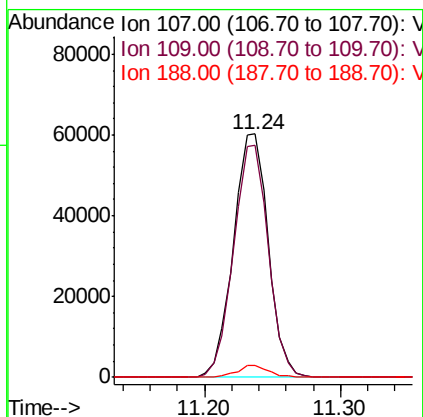
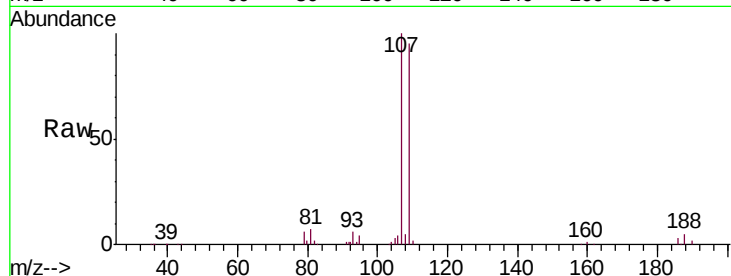




#51
1,2-Dibromoethane
Concen: 27.007 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. 0.01 min
Lab File: VW013783.D
Acq: 29 Oct 2019 09:38

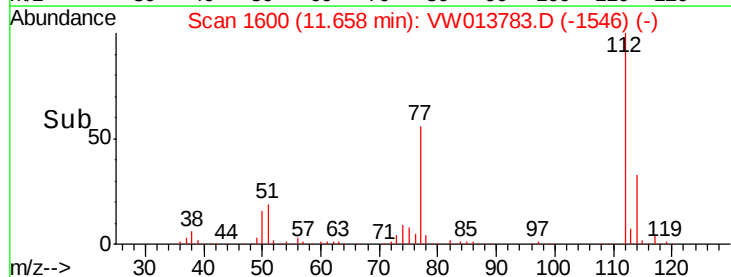
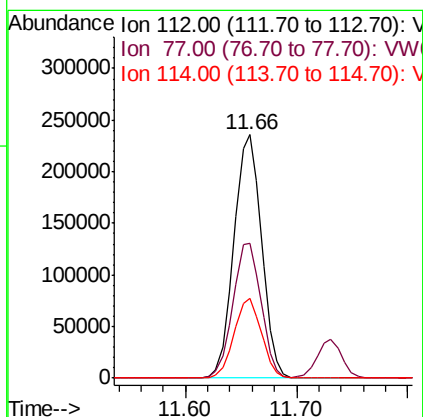
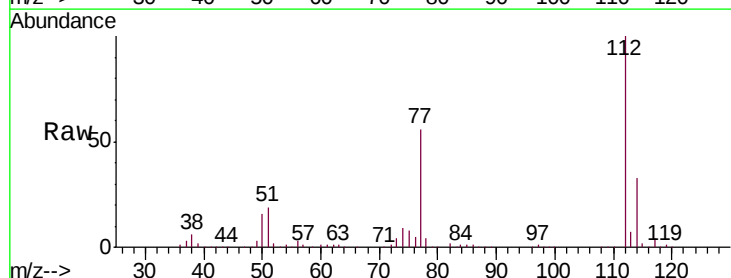
Instrument :
MSVOA_W
ClientSampleId :
VSTD02530

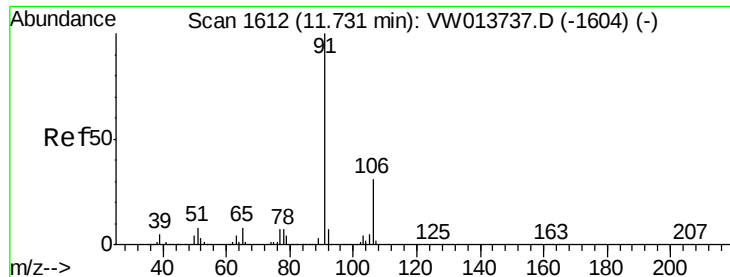
Tgt Ion:107 Resp: 107876
Ion Ratio Lower Upper
107 100
109 95.2 64.0 118.8
188 4.7 3.4 5.2



#52
Chlorobenzene
Concen: 27.075 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013783.D
Acq: 29 Oct 2019 09:38

Tgt Ion:112 Resp: 405413
Ion Ratio Lower Upper
112 100
77 55.6 44.1 66.1
114 32.7 23.4 43.4





#53

Ethylbenzene

Concen: 27.692 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

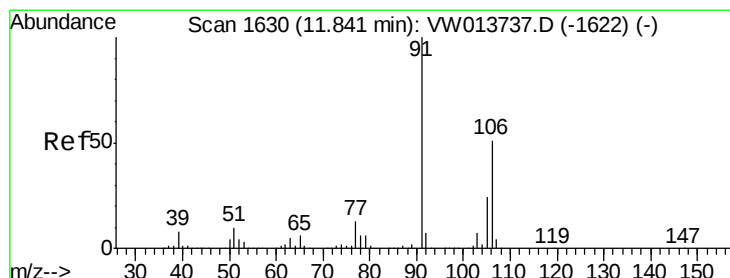
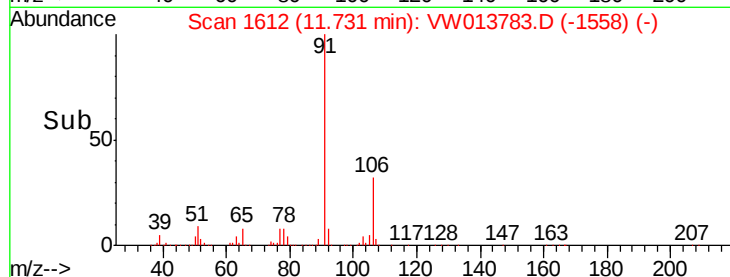
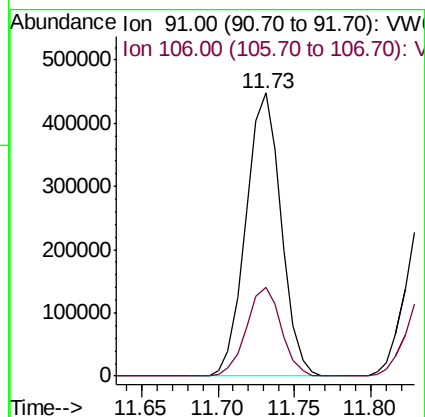
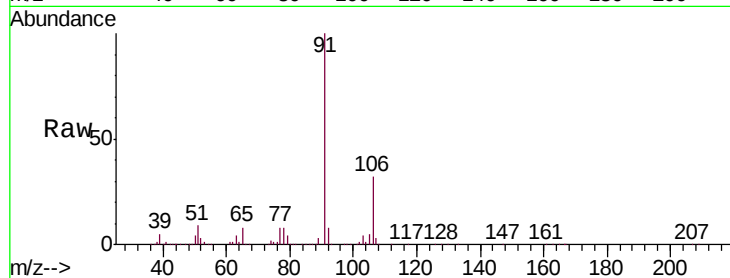
VSTD02530

Tgt Ion: 91 Resp: 716045

Ion Ratio Lower Upper

91 100

106 31.6 22.3 41.3



#54

m,p-Xylene

Concen: 27.766 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW013783.D

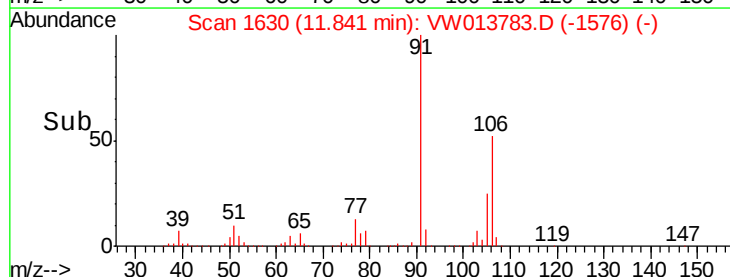
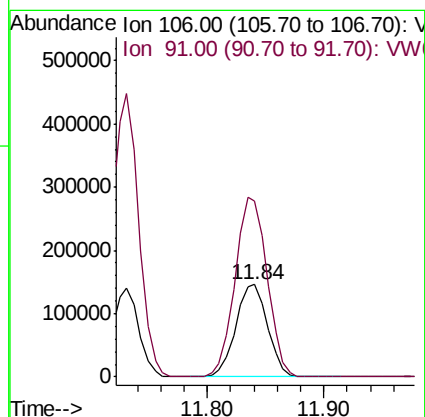
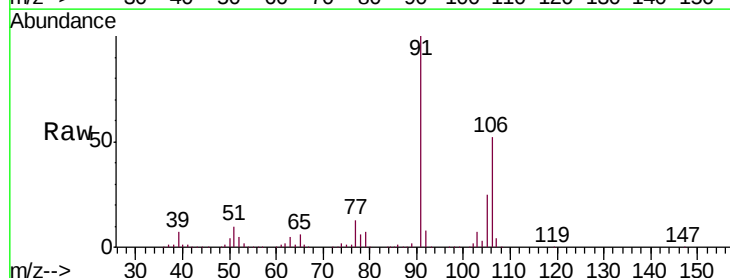
Acq: 29 Oct 2019 09:38

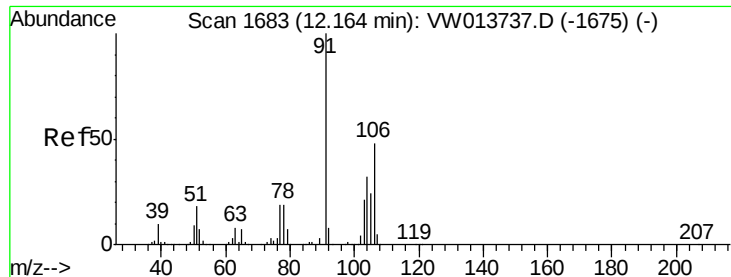
Tgt Ion: 106 Resp: 277439

Ion Ratio Lower Upper

106 100

91 190.7 137.7 255.7





#55

o-xylene

Concen: 27.524 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

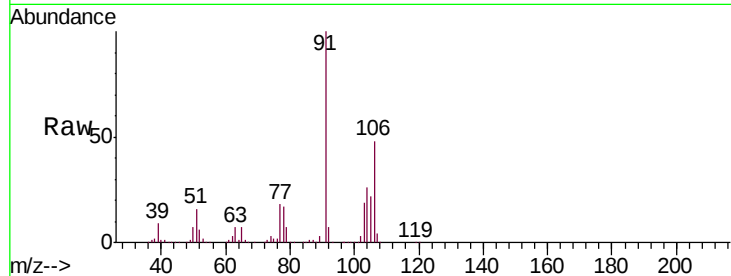
VSTD02530

Tgt Ion:106 Resp: 260987

Ion Ratio Lower Upper

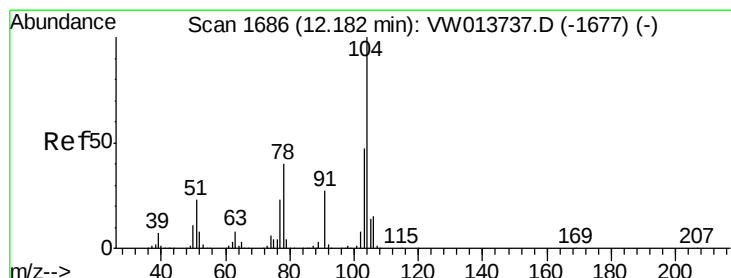
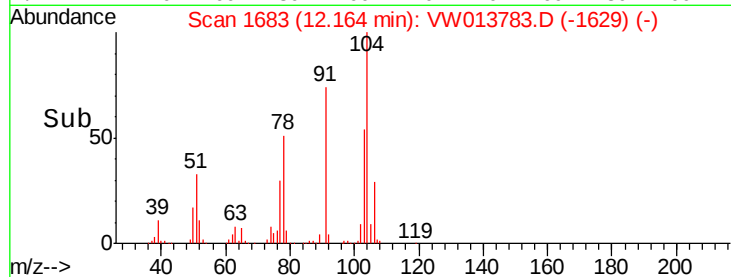
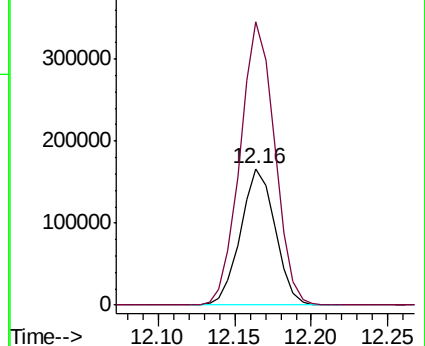
106 100

91 207.5 144.8 269.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 27.935 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW013783.D

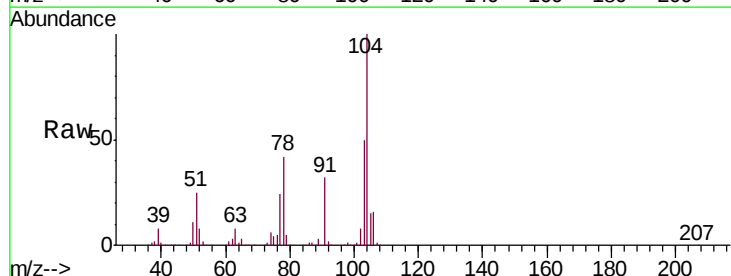
Acq: 29 Oct 2019 09:38

Tgt Ion:104 Resp: 453129

Ion Ratio Lower Upper

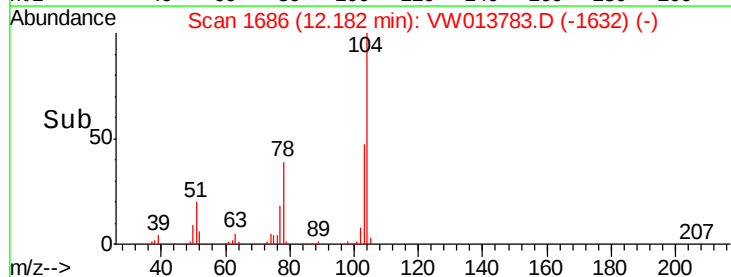
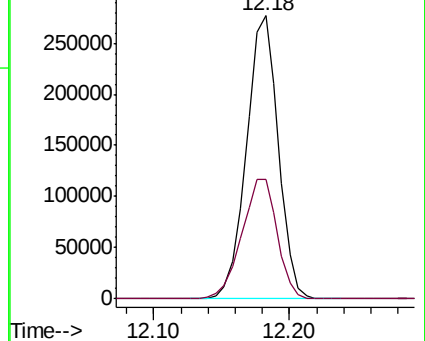
104 100

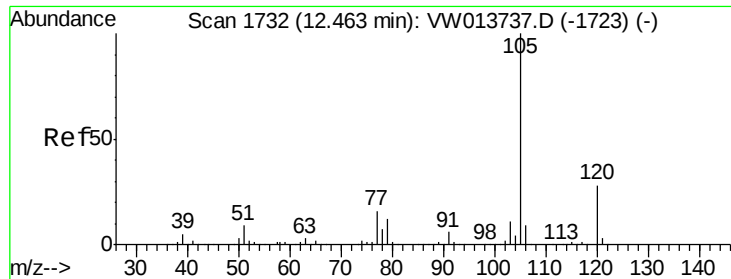
78 42.2 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 27.770 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

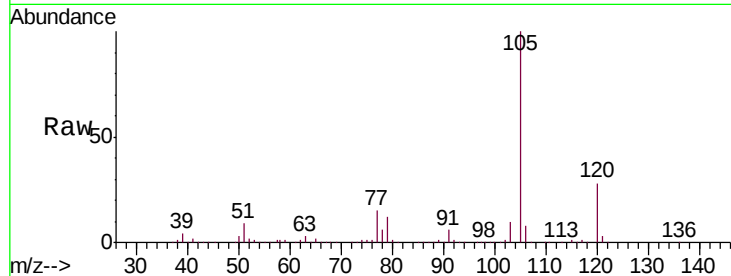
Tgt Ion: 105 Resp: 706314

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

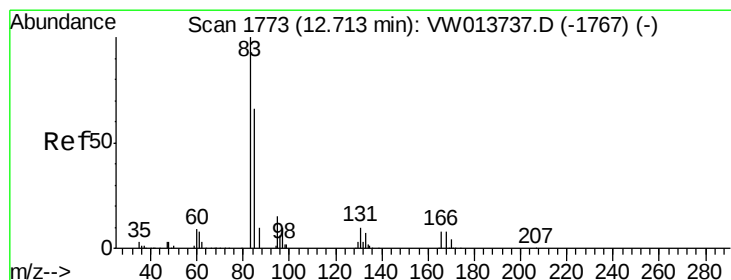
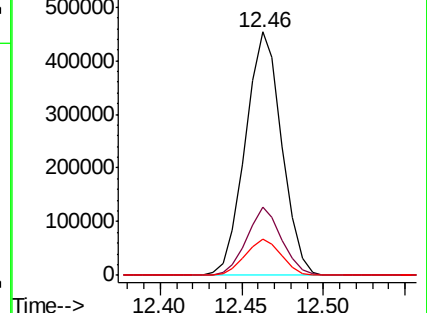
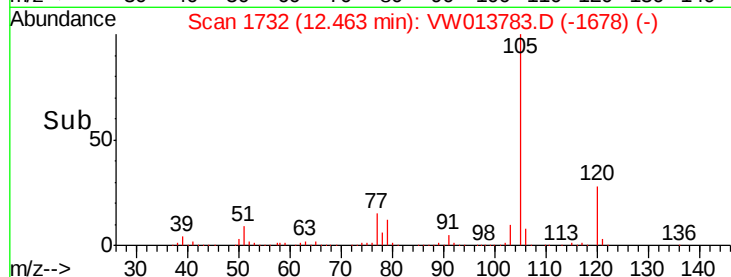
77 14.8 11.4 17.0



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: 27.865 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

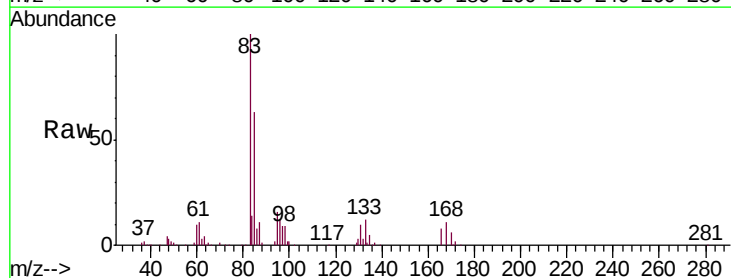
Tgt Ion: 83 Resp: 134148

Ion Ratio Lower Upper

83 100

85 63.3 44.9 83.3

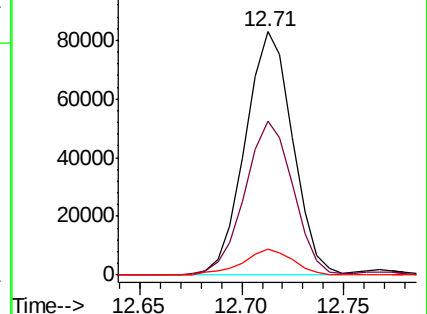
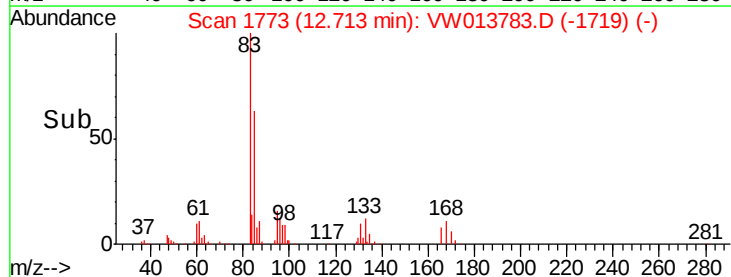
131 10.5 8.6 13.0

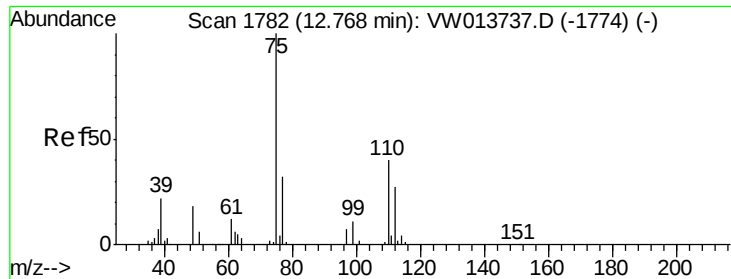


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

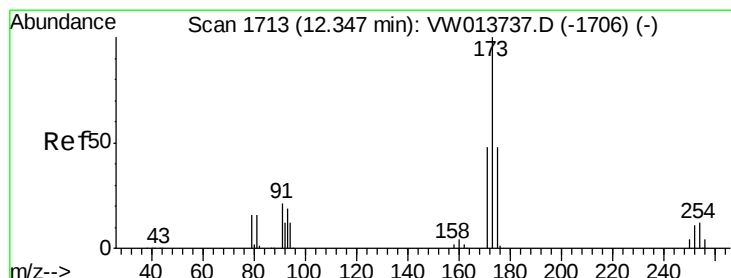
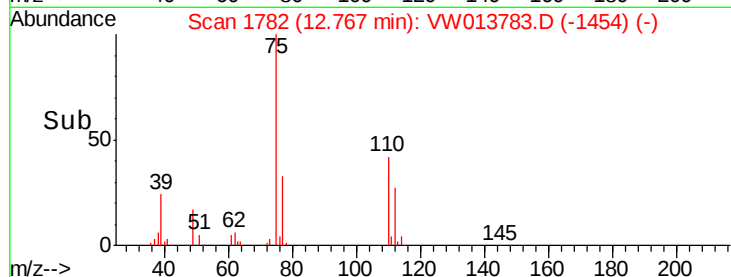
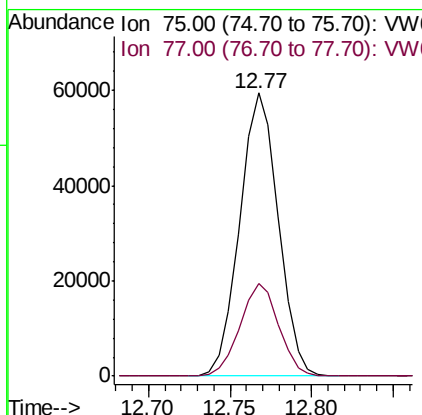
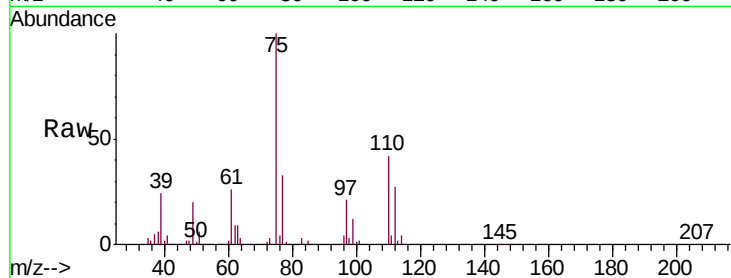




#59
 1,2,3-Trichloropropane
 Concen: 27.234 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

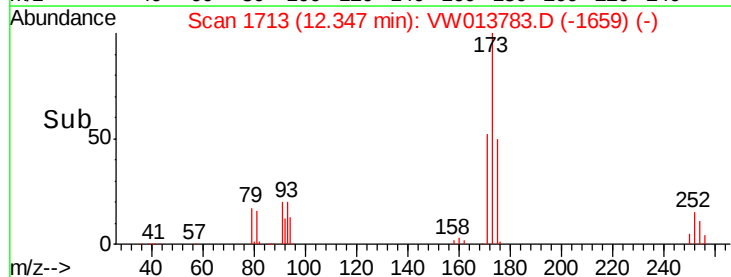
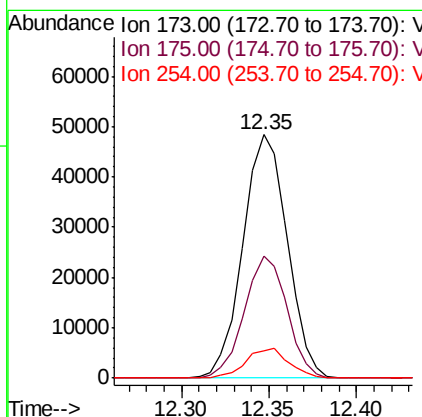
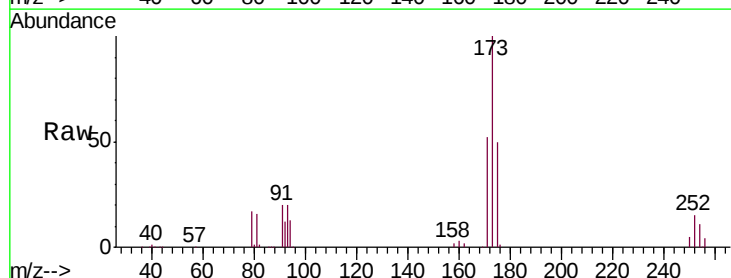
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

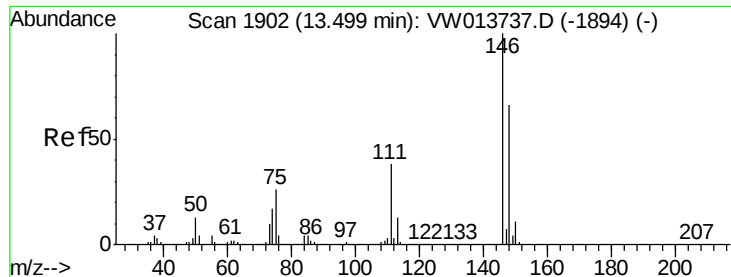
Tgt Ion: 75 Resp: 97773
 Ion Ratio Lower Upper
 75 100
 77 32.6 26.4 39.6



#62
 Bromoform
 Concen: 27.166 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

Tgt Ion: 173 Resp: 85654
 Ion Ratio Lower Upper
 173 100
 175 47.9 39.1 58.7
 254 11.7 9.6 14.4

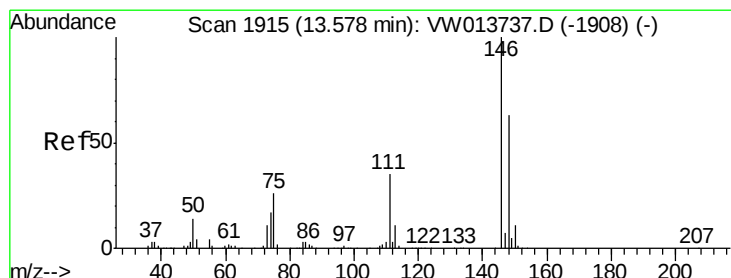
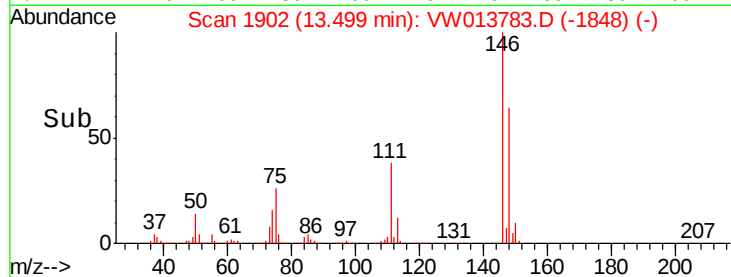
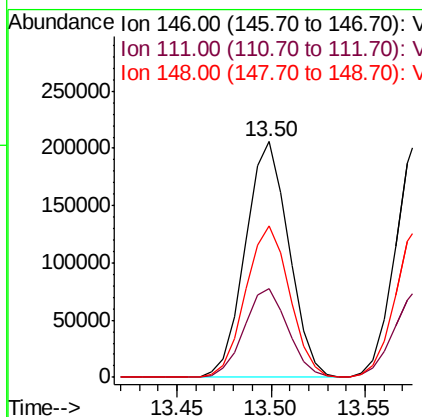
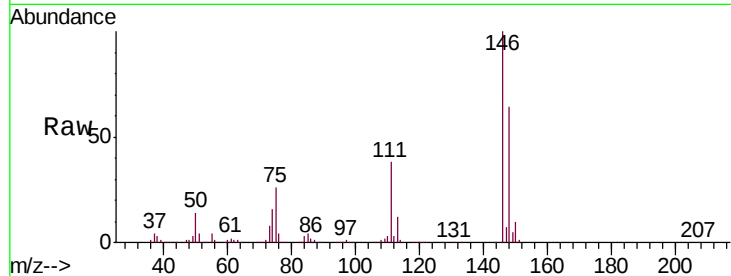




#63
 1,3-Dichlorobenzene
 Concen: 26.381 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

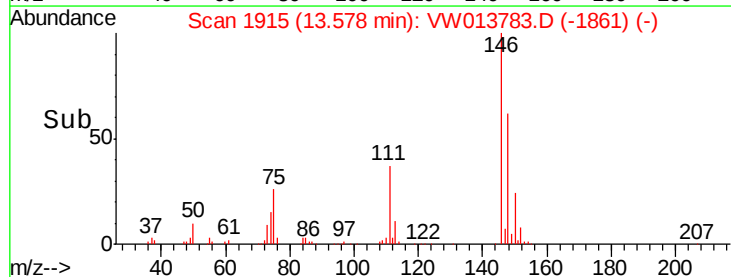
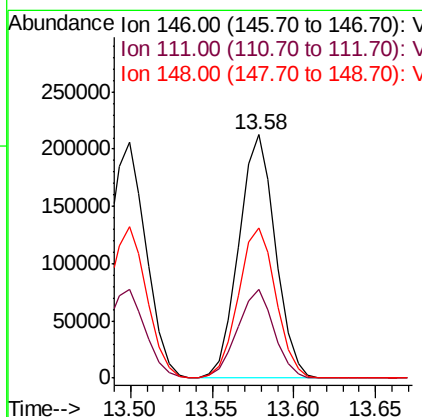
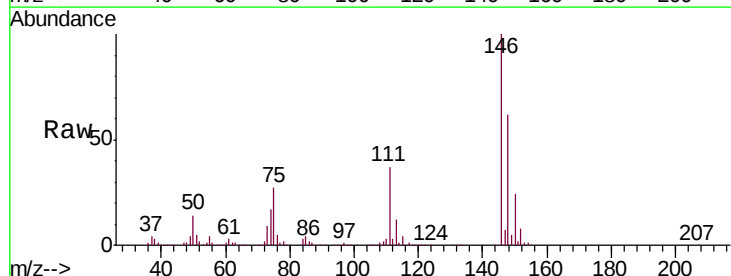
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

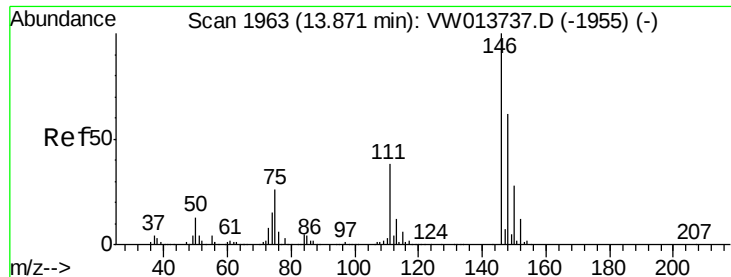
Tgt Ion:146 Resp: 329340
 Ion Ratio Lower Upper
 146 100
 111 37.6 26.1 48.5
 148 64.3 45.8 85.2



#64
 1,4-Dichlorobenzene
 Concen: 26.478 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

Tgt Ion:146 Resp: 332164
 Ion Ratio Lower Upper
 146 100
 111 36.6 24.8 46.0
 148 61.6 43.0 79.8





#65

1,2-Dichlorobenzene

Concen: 26.563 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

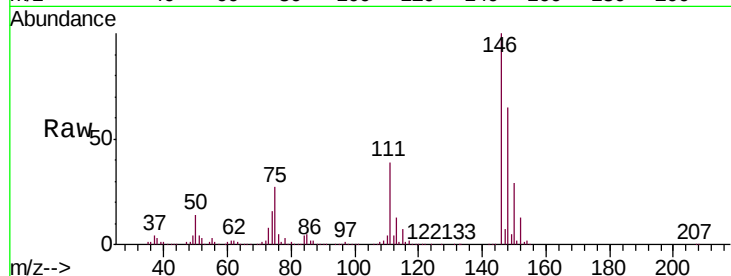
Tgt Ion:146 Resp: 300454

Ion Ratio Lower Upper

146 100

111 38.8 30.7 46.1

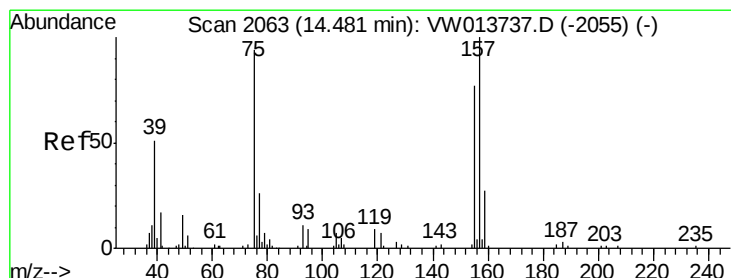
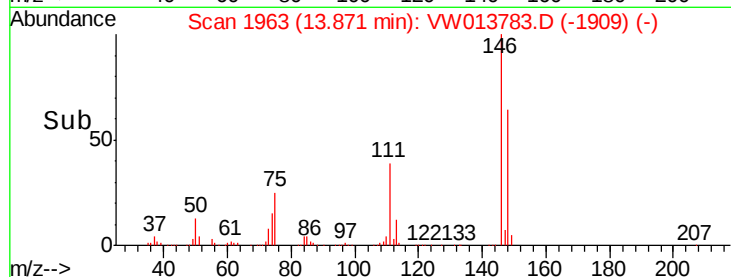
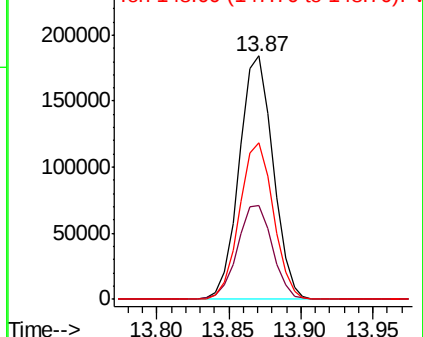
148 64.6 53.3 79.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 27.706 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

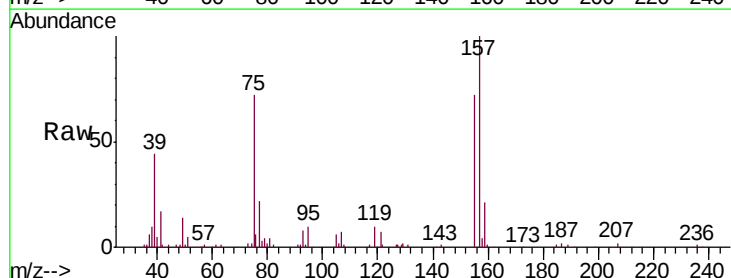
Tgt Ion: 75 Resp: 21540

Ion Ratio Lower Upper

75 100

157 138.7 99.4 149.0

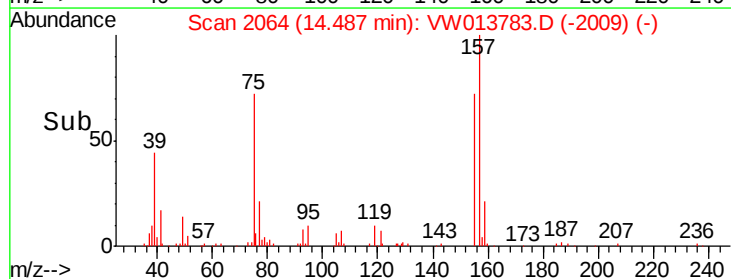
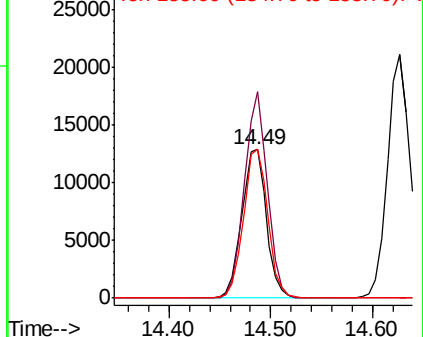
155 100.1 69.7 104.5

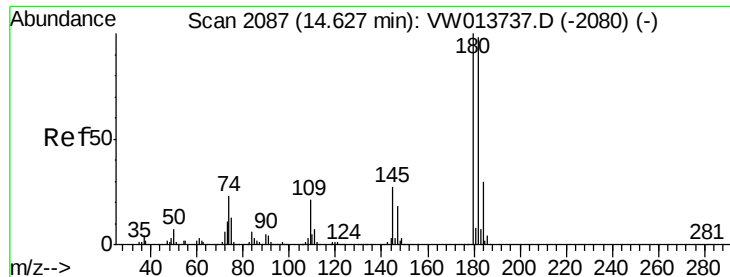


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

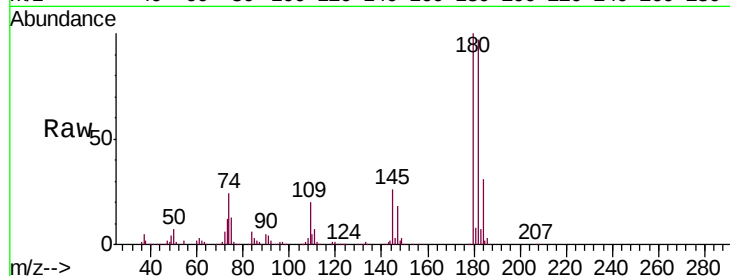




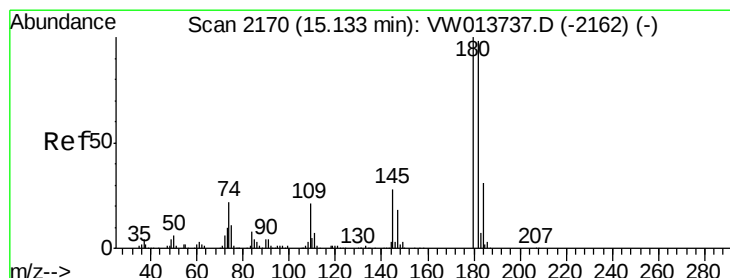
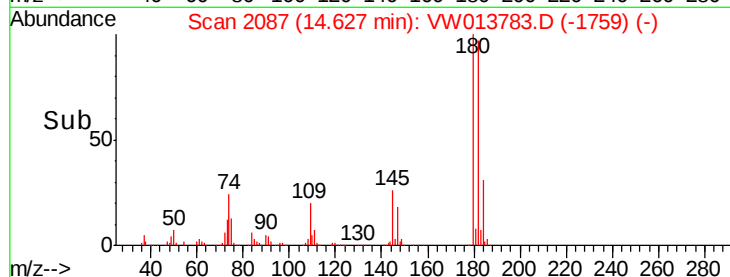
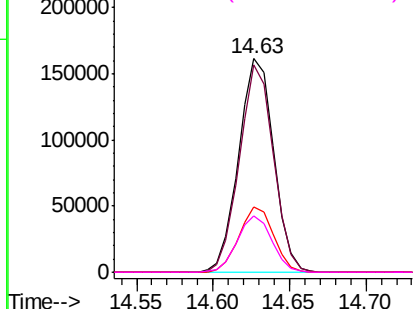
#67
 1,3,5-Trichlorobenzene
 Concen: 27.651 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

Tgt Ion:	180	Resp:	256622
Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.2	114.4
184	30.4	24.1	36.1
145	26.1	21.8	32.8

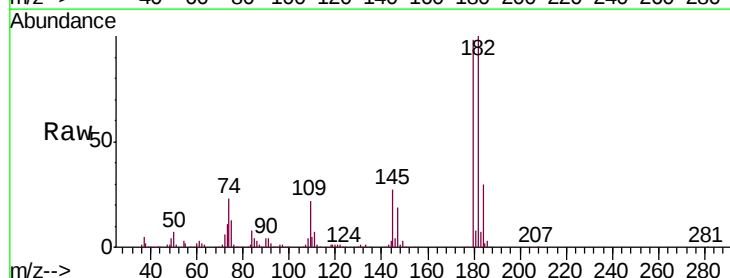


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

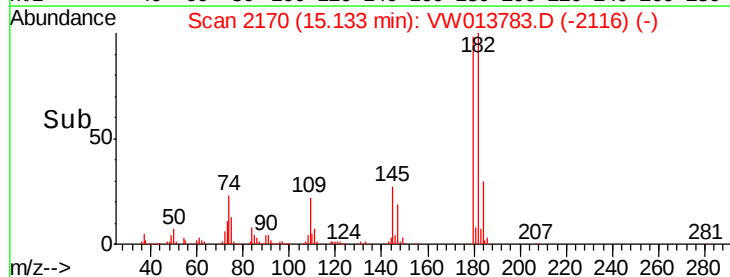
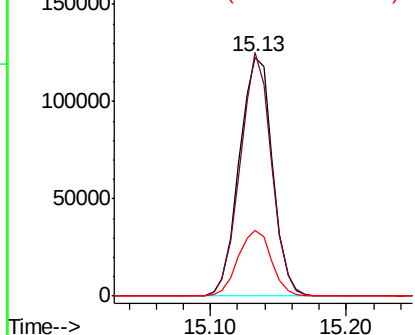


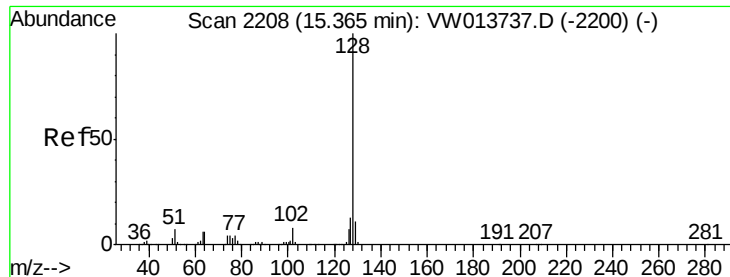
#68
 1,2,4-trichlorobenzene
 Concen: 26.655 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013783.D
 Acq: 29 Oct 2019 09:38

Tgt Ion:	180	Resp:	210018
Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.8	113.8
145	27.4	22.6	34.0



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





#69

Naphthalene

Concen: 27.013 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

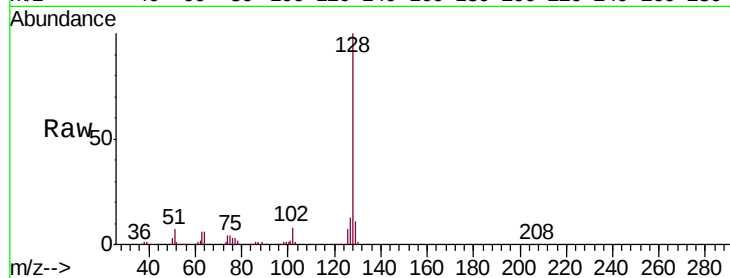
Tgt Ion:128 Resp: 385659

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

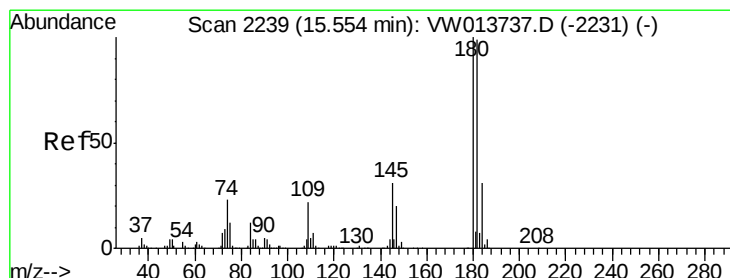
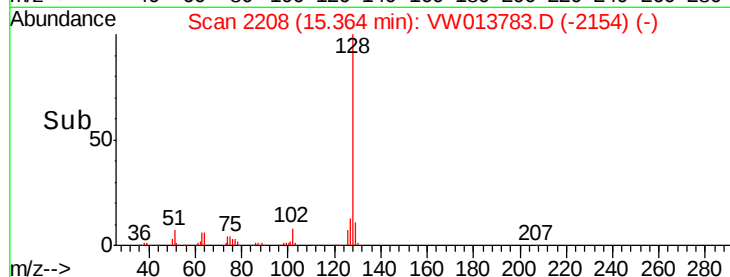
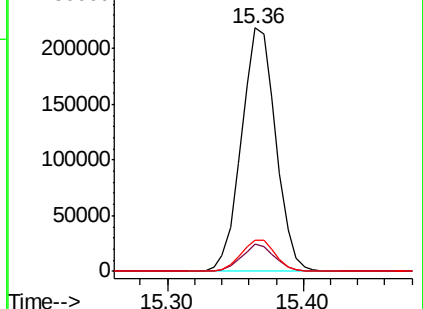
127 13.0 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 26.672 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW013783.D

Acq: 29 Oct 2019 09:38

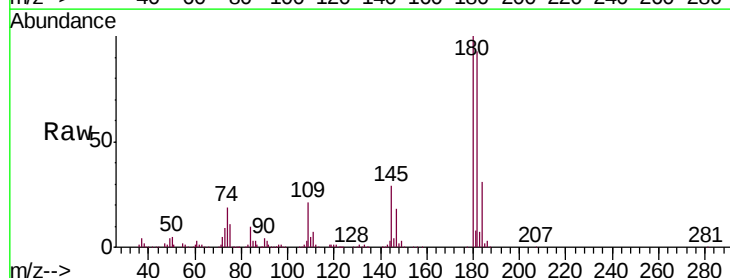
Tgt Ion:180 Resp: 188196

Ion Ratio Lower Upper

180 100

182 95.9 77.0 115.4

145 29.4 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

