

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011620\
 Data File : VW014663.D
 Acq On : 16 Jan 2020 09:59
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

Quant Time: Jan 17 01:17:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Jan 16 16:21:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	945112	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	823085	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	390852	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	328877	24.68	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.72%
7) Chloroethane-d5	2.89	69	270208	27.53	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	110.12%
10) 1,1-Dichloroethene-d2	4.02	63	626937	25.73	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	102.92%
20) 2-Butanone-d5	7.07	46	186959	58.97	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.94%
24) Chloroform-d	7.65	84	599884	27.59	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	110.36%
26) 1,2-Dichloroethane-d4	8.31	65	303623	26.91	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	107.64%
29) Benzene-d6	8.27	84	1258086	28.74	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	114.96%
33) 1,2-Dichloropropane-d6	9.27	67	380140	28.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	115.56%
37) Toluene-d8	10.32	98	1141263	28.76	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	115.04%
38) trans-1,3-Dichloropropene-	10.57	79	149943	27.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	110.32%
39) 2-Hexanone-d5	10.92	63	142120	63.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	126.32%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	295472	29.90	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	119.60%
61) 1,2-Dichlorobenzene-d4	13.85	152	368629	28.62	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	114.48%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	195350	23.105	ug/L 96
3) Chloromethane	2.21	50	207599	21.719	ug/L 97
5) Vinyl chloride	2.36	62	328186	24.131	ug/L 100
6) Bromomethane	2.78	94	187847	23.653	ug/L 100
8) Chloroethane	2.92	64	190291	25.021	ug/L 100
9) Trichlorofluoromethane	3.26	101	182723	25.401	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	296338	23.996	ug/L 99
12) 1,1-Dichloroethene	4.04	96	292528	24.190	ug/L 86
13) Acetone	4.12	43	192639	43.887	ug/L 98
14) Carbon disulfide	4.39	76	869381	23.285	ug/L 99
15) Methyl Acetate	4.66	43	144730	24.435	ug/L 100
16) Methylene chloride	4.92	84	298809	19.389	ug/L 98
17) Methyl tert-butyl Ether	5.42	73	371925	23.894	ug/L 100
18) trans-1,2-Dichloroethene	5.42	96	296202	23.252	ug/L 98
19) 1,1-Dichloroethane	6.21	63	536312	23.290	ug/L 99
21) 2-Butanone	7.17	43	219272	46.560	ug/L 100
22) cis-1,2-Dichloroethene	7.17	96	308724	23.024	ug/L 95

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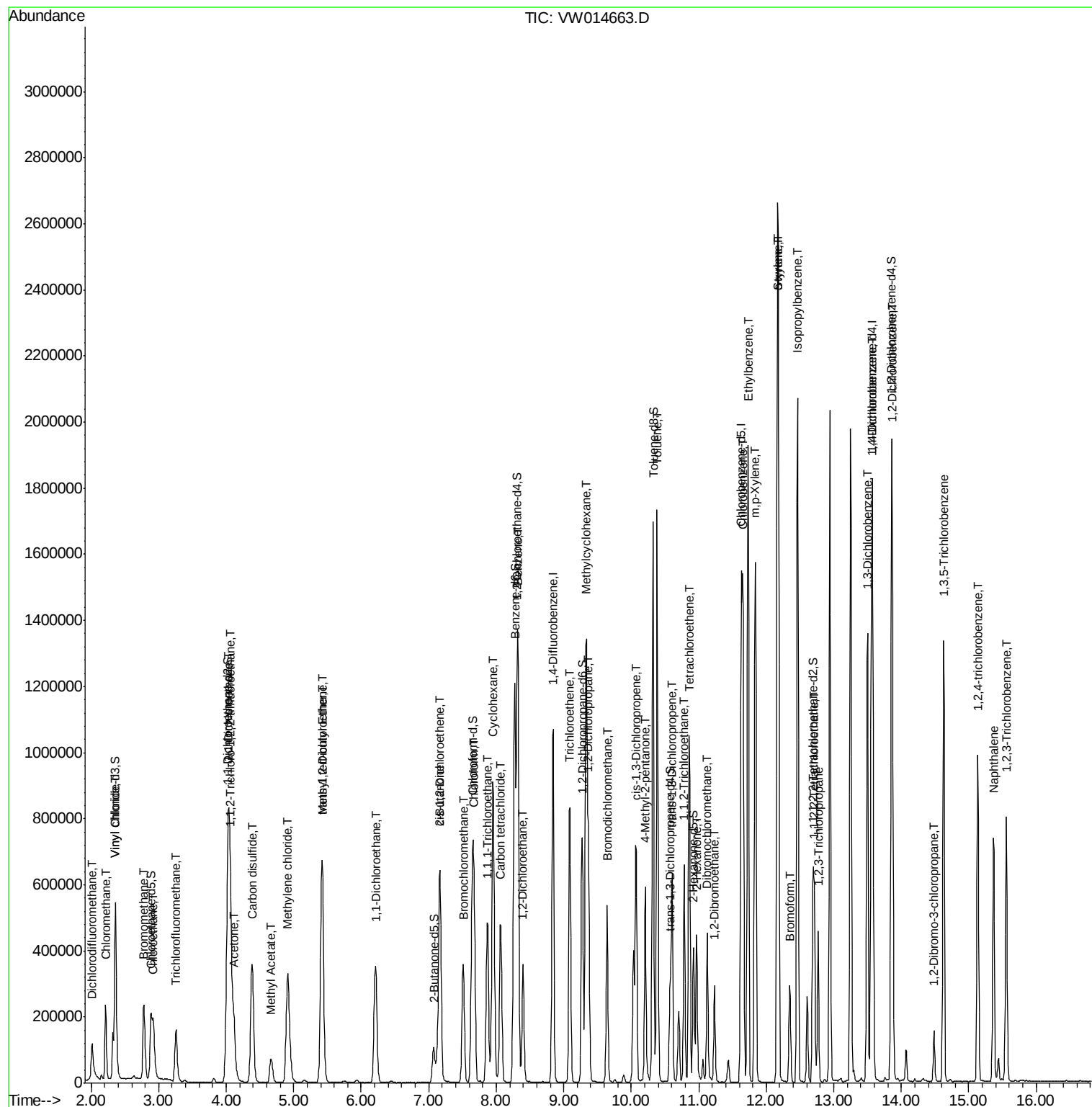
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	132766	22.872	uq/L	98
25) Chloroform	7.67	83	505554	22.953	uq/L	99
27) 1,2-Dichloroethane	8.40	62	320488	22.415	uq/L	99
30) Cyclohexane	7.95	56	527459	25.052	uq/L	99
31) 1,1,1-Trichloroethane	7.87	97	406012	24.047	uq/L	100
32) Carbon tetrachloride	8.06	117	383952	24.408	uq/L	98
34) Benzene	8.32	78	1207822	24.385	uq/L	100
35) Trichloroethene	9.09	95	305305	23.883	uq/L	99
36) Methylcyclohexane	9.34	83	559536	24.949	uq/L	99
40) 1,2-Dichloropropane	9.37	63	297975	23.768	uq/L	99
41) Bromodichloromethane	9.64	83	351199	23.289	uq/L	99
42) cis-1,3-Dichloropropene	10.07	75	443039	23.657	uq/L	98
43) 4-Methyl-2-pentanone	10.21	43	388187	48.233	uq/L	99
44) Toluene	10.38	91	1274618	24.624	uq/L	99
45) trans-1,3-Dichloropropene	10.60	75	351272	23.458	uq/L	100
46) 1,1,2-Trichloroethane	10.79	97	212110	23.886	uq/L	99
47) Tetrachloroethene	10.86	164	258511	24.083	uq/L	99
49) 2-Hexanone	10.96	43	292448	53.214	uq/L	99
50) Dibromochloromethane	11.13	129	239454	23.748	uq/L	95
51) 1,2-Dibromoethane	11.23	107	200523	23.922	uq/L	98
52) Chlorobenzene	11.66	112	772130	23.597	uq/L	98
53) Ethylbenzene	11.73	91	1375883	24.175	uq/L	99
54) m,p-Xylene	11.84	106	528804	24.553	uq/L	93
55) o-xylene	12.16	106	495111	24.338	uq/L	99
56) Styrene	12.18	104	835849	24.412	uq/L	100
57) Isopropylbenzene	12.46	105	1345222	24.860	uq/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	257171	23.852	uq/L	100
59) 1,2,3-Trichloropropane	12.77	75	192373	23.818	uq/L	100
62) Bromoform	12.35	173	141096	24.158	uq/L	97
63) 1,3-Dichlorobenzene	13.50	146	585920	23.678	uq/L	99
64) 1,4-Dichlorobenzene	13.58	146	585271	23.457	uq/L	97
65) 1,2-Dichlorobenzene	13.87	146	533190	24.036	uq/L	96
66) 1,2-Dibromo-3-chloropropan	14.49	75	39171	23.846	uq/L	91
67) 1,3,5-Trichlorobenzene	14.63	180	441527	24.087	uq/L	100
68) 1,2,4-trichlorobenzene	15.13	180	331302	24.110	uq/L	99
69) Naphthalene	15.36	128	639497	26.957	uq/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	301062	24.178	uq/L	100

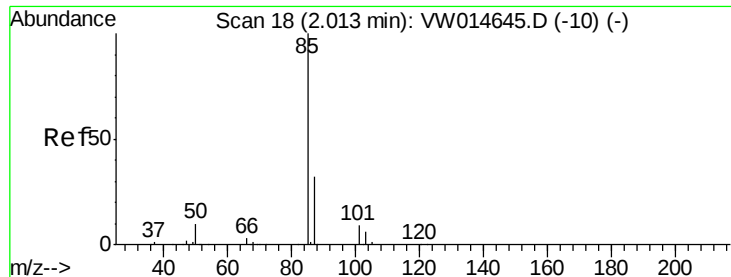
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.105 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

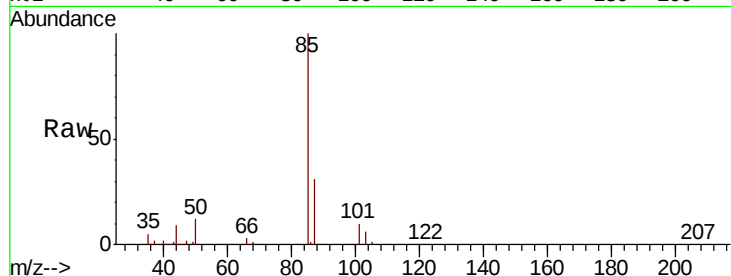
VSTD02516

Tot Ion: 85 Resp: 195350

Ion Ratio Lower Upper

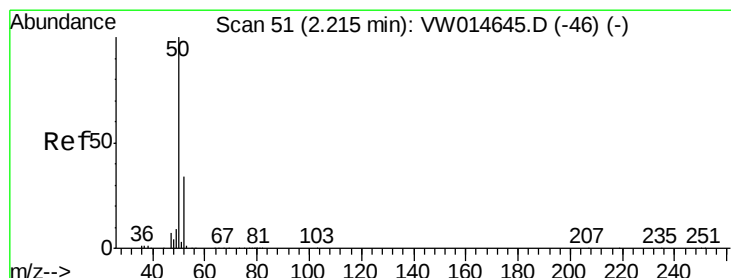
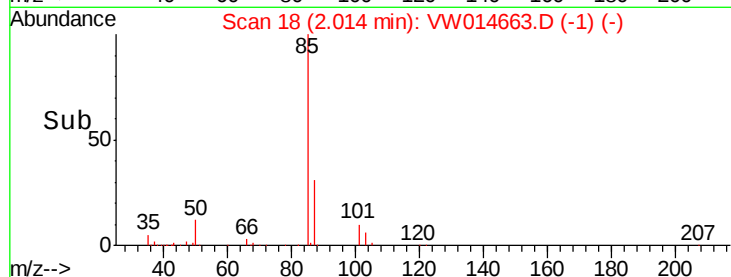
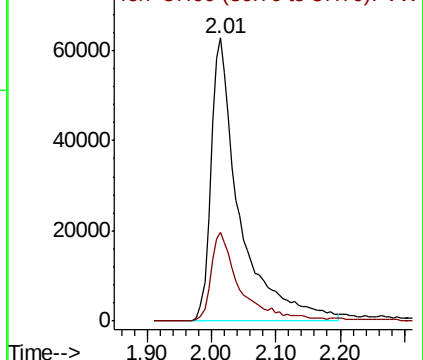
85 100

87 28.4 21.5 39.9



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.719 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW014663.D

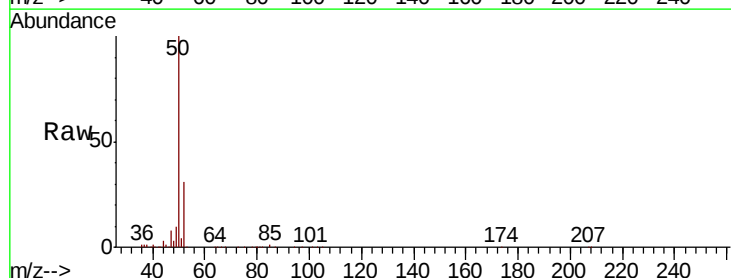
Acq: 16 Jan 2020 09:59

Tgt Ion: 50 Resp: 207599

Ion Ratio Lower Upper

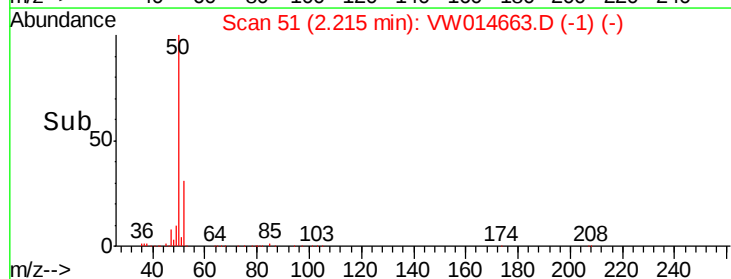
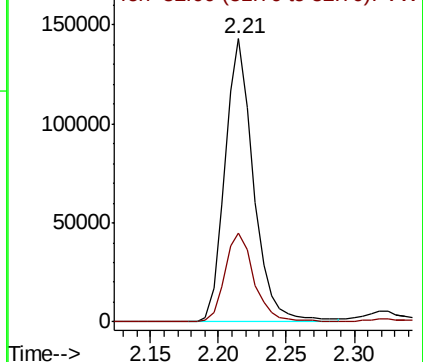
50 100

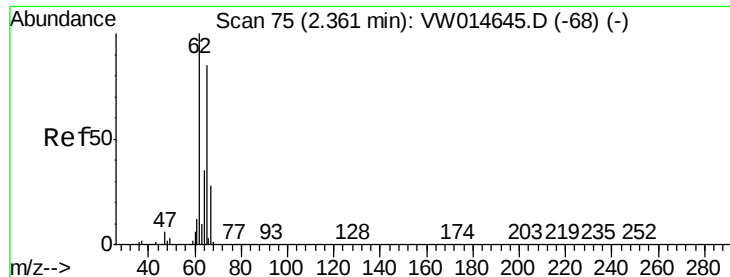
52 31.5 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.131 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

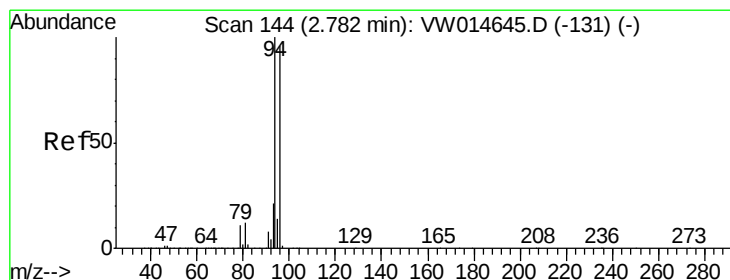
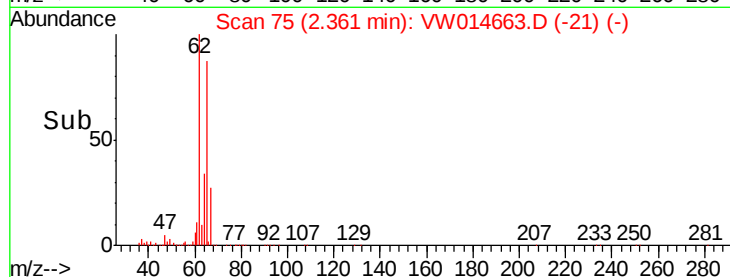
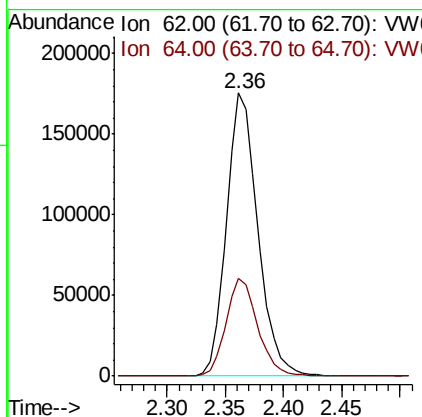
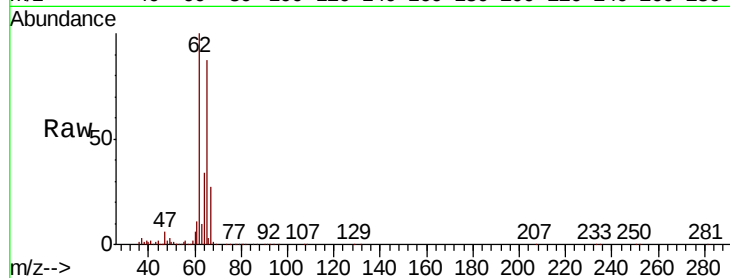
VSTD02516

Tot Ion: 62 Resp: 328186

Ion Ratio Lower Upper

62 100

64 34.3 24.1 44.8



#6

Bromomethane

Concen: 23.653 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW014663.D

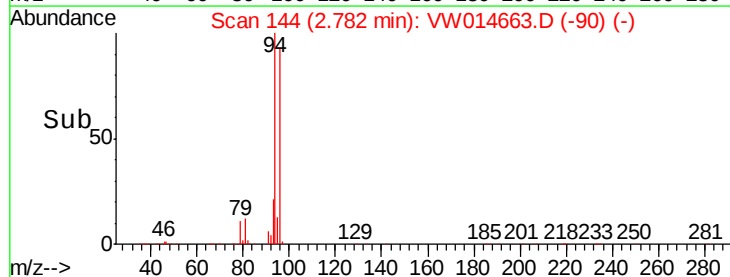
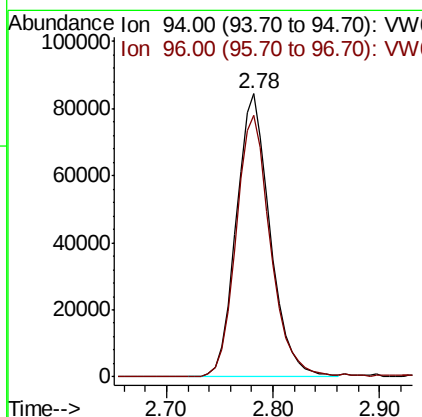
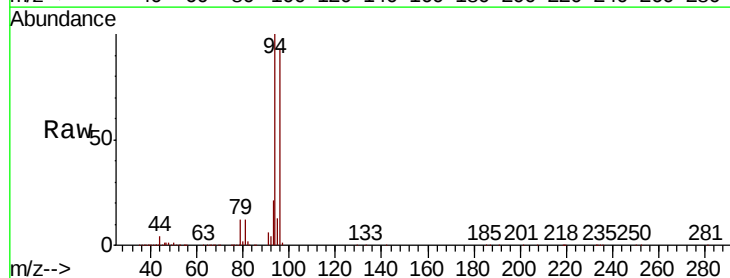
Acq: 16 Jan 2020 09:59

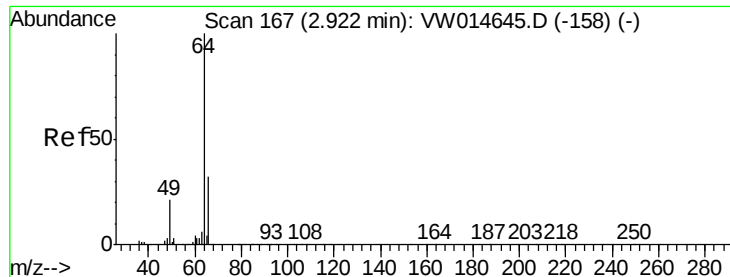
Tgt Ion: 94 Resp: 187847

Ion Ratio Lower Upper

94 100

96 94.0 9.4 178.8





#8

Chloroethane

Concen: 25.021 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

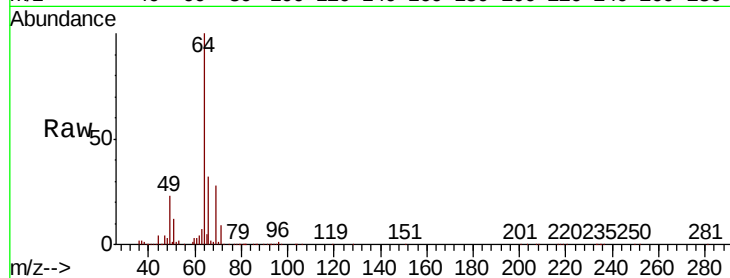
VSTD02516

Tot Ion: 64 Resp: 190291

Ion Ratio Lower Upper

64 100

66 31.8 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW

2.92

80000

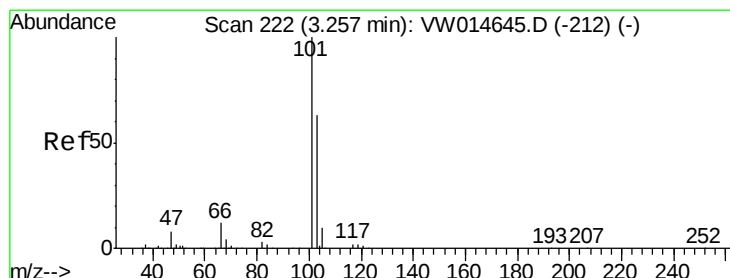
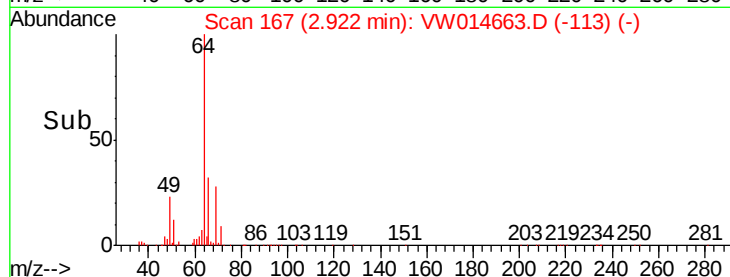
60000

40000

20000

0

Time--> 2.80 2.90 3.00 3.10



#9

Trichlorofluoromethane

Concen: 25.401 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW014663.D

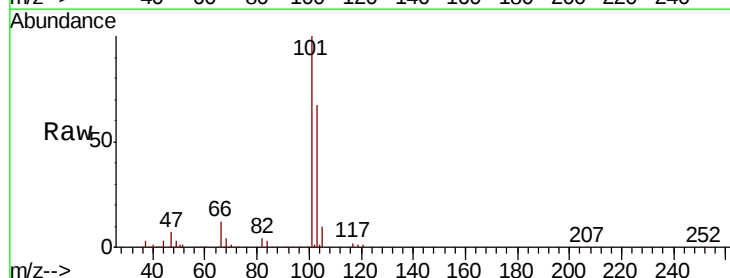
Acq: 16 Jan 2020 09:59

Tgt Ion: 101 Resp: 182723

Ion Ratio Lower Upper

101 100

103 65.6 45.5 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.26

80000

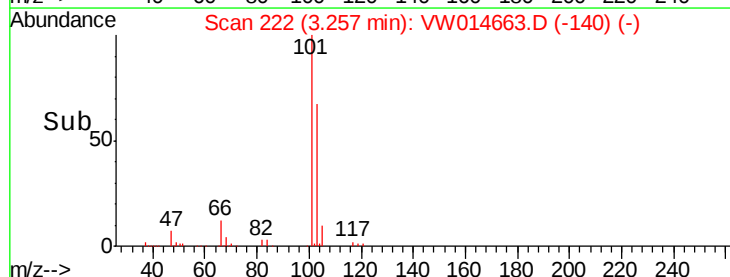
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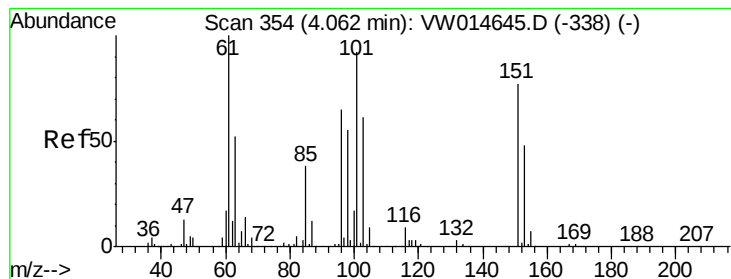
40000

20000

0

Time--> 3.20 3.30 3.40





#11

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

Concen: 23.996 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

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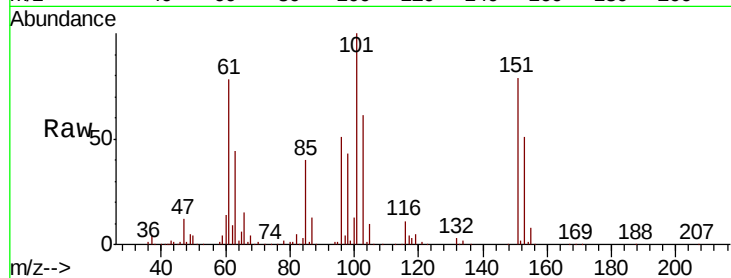
Tot Ion:101 Resp: 296338

Ion Ratio Lower Upper

101 100

85 41.1 33.3 49.9

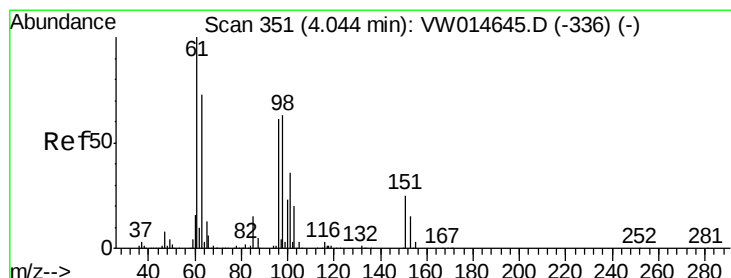
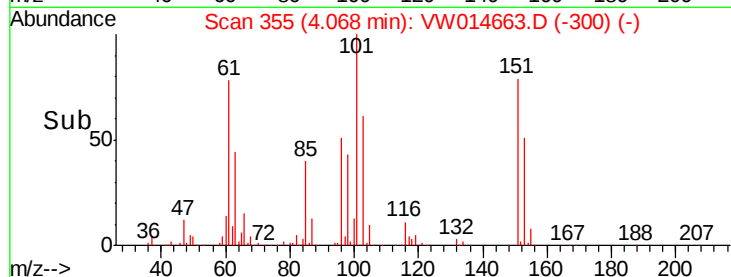
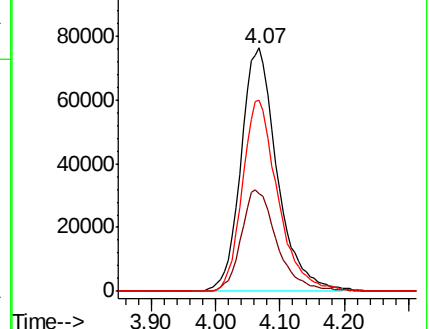
151 77.1 62.5 93.7



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: 24.190 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

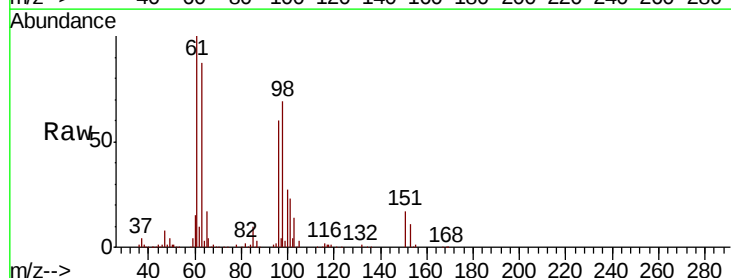
Tgt Ion: 96 Resp: 292528

Ion Ratio Lower Upper

96 100

61 166.2 114.2 212.0

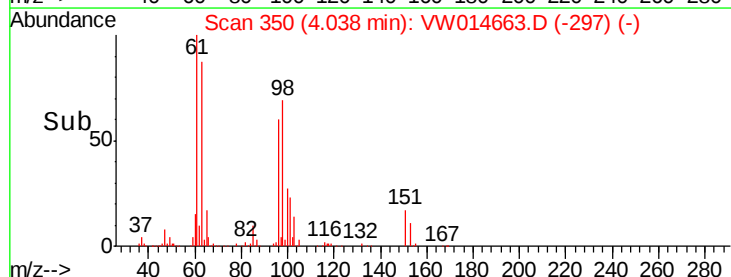
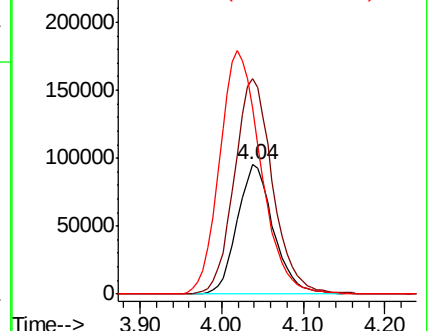
63 144.2 78.6 146.0

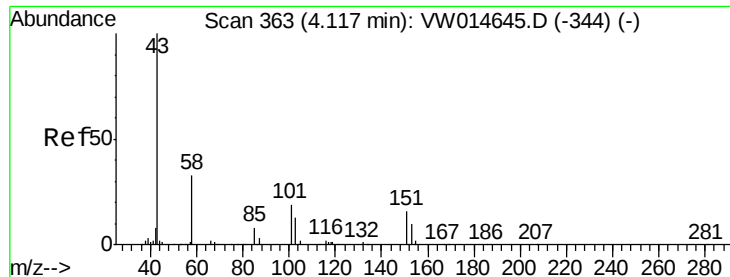


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 43.887 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

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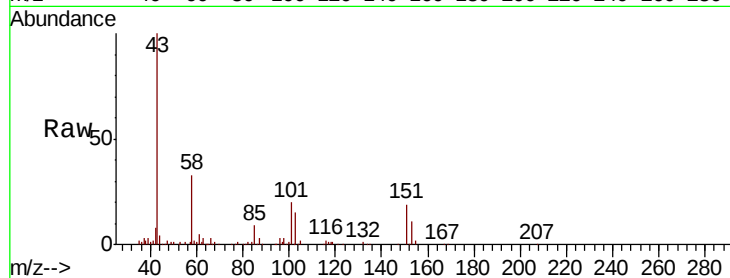
VSTD02516

Tot Ion: 43 Resp: 192639

Ion Ratio Lower Upper

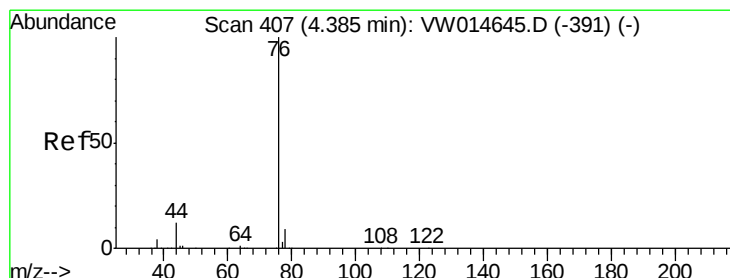
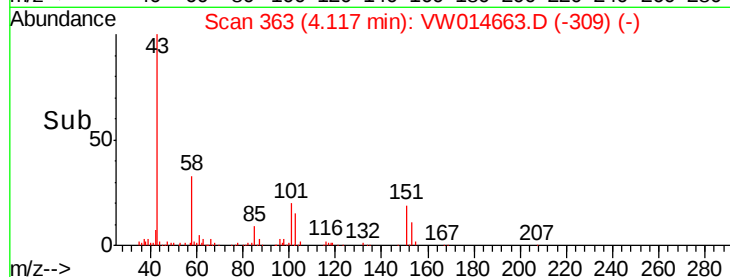
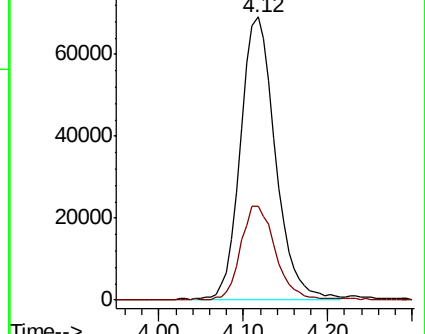
43 100

58 33.2 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 23.285 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW014663.D

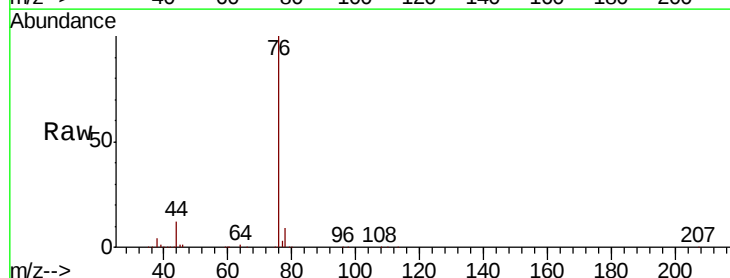
Acq: 16 Jan 2020 09:59

Tgt Ion: 76 Resp: 869381

Ion Ratio Lower Upper

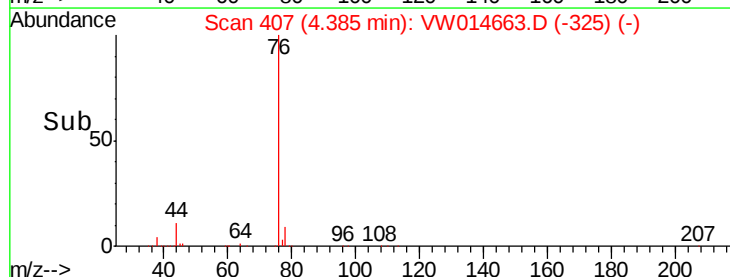
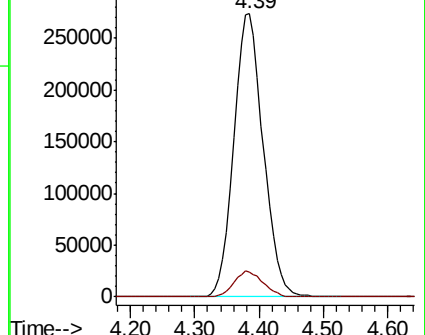
76 100

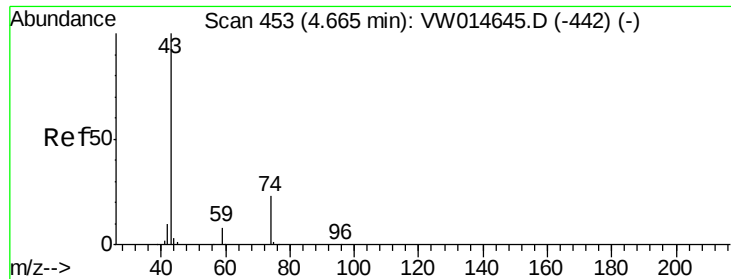
78 9.0 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

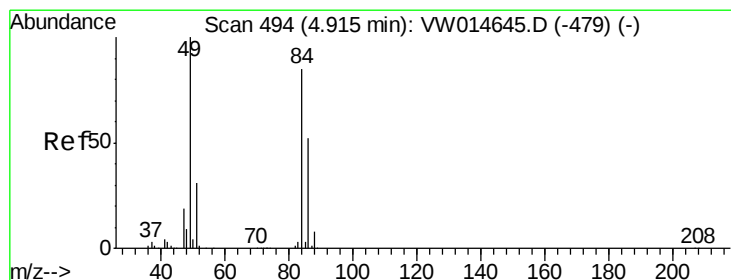
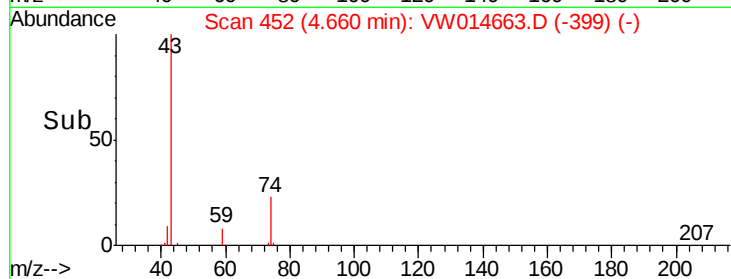
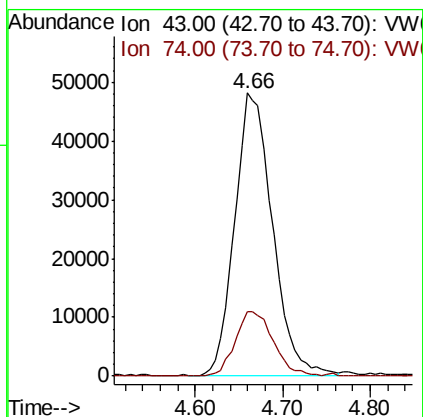
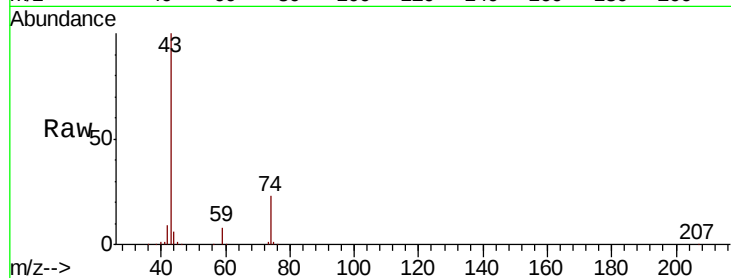




#15
Methyl Acetate
Concen: 24.435 ug/L
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW014663.D
Acq: 16 Jan 2020 09:59

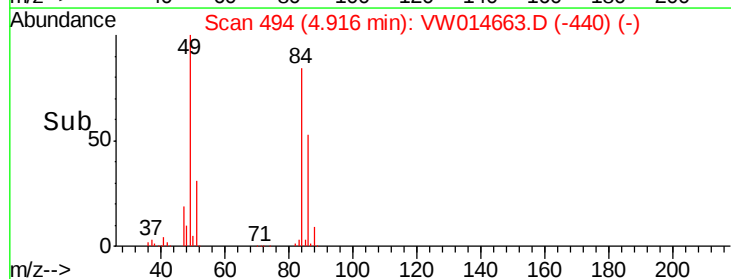
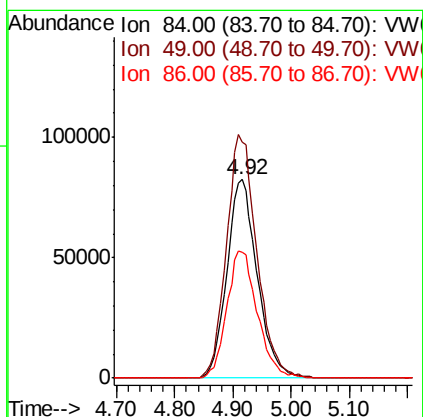
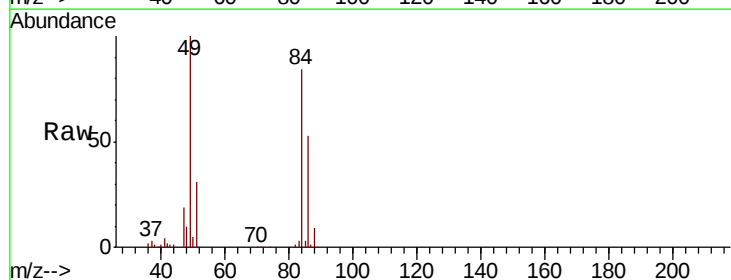
Instrument :
MSVOA_W
ClientSampled :
VSTD02516

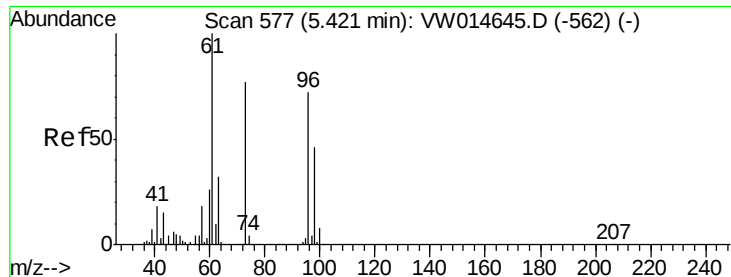
Tot Ion: 43 Resp: 144730
Ion Ratio Lower Upper
43 100
74 23.1 18.3 27.5



#16
Methylene chloride
Concen: 19.389 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW014663.D
Acq: 16 Jan 2020 09:59

Tgt Ion: 84 Resp: 298809
Ion Ratio Lower Upper
84 100
49 118.5 85.8 159.4
86 63.4 44.5 82.7

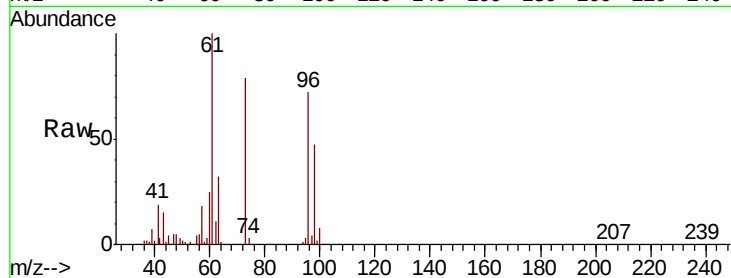




#17
Methvl tert-butvl Ether
Concen: 23.894 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014663.D
Acq: 16 Jan 2020 09:59

Instrument :
MSVOA_W
ClientSampleId :
VSTD02516

Tot Ion	Ratio	Lower	Upper
73	100		
43	19.4	15.7	23.5
57	23.0	18.3	27.5

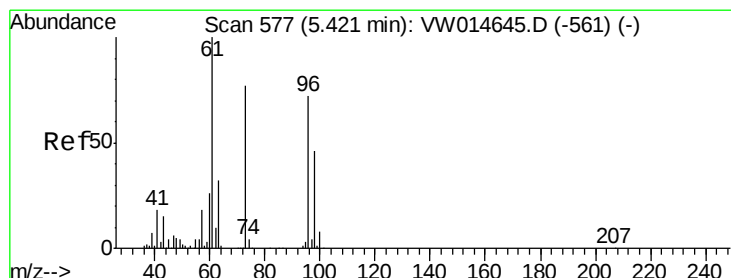
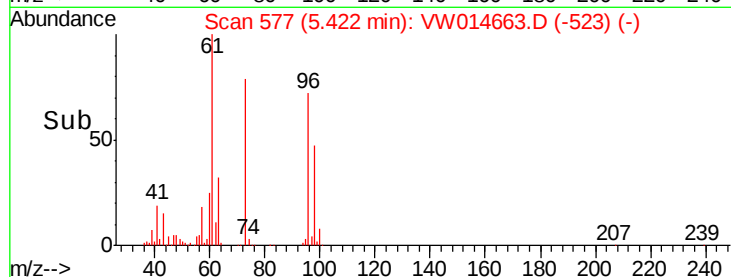
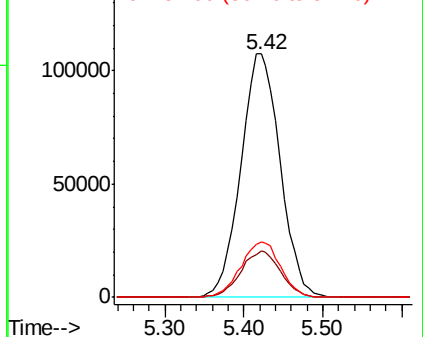


Abundance

Ion 73.00 (72.70 to 73.70): VW

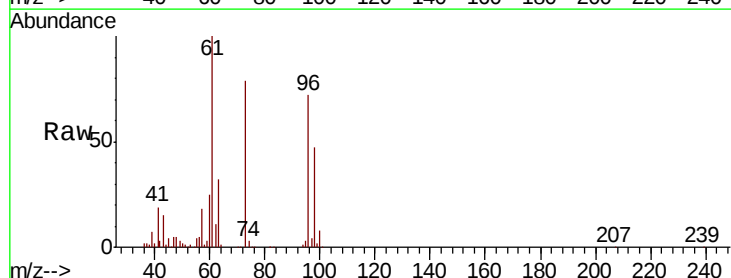
Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW



#18
trans-1,2-Dichloroethene
Concen: 23.252 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW014663.D
Acq: 16 Jan 2020 09:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.3	98.2	182.4
98	65.7	44.1	81.9

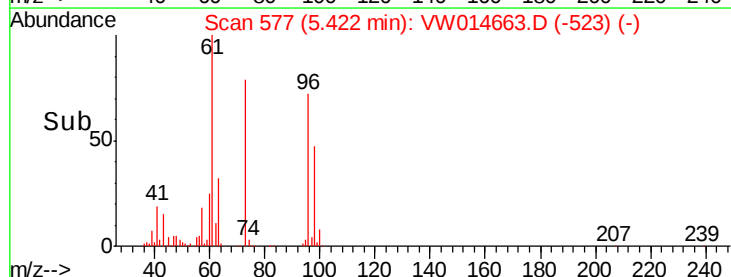
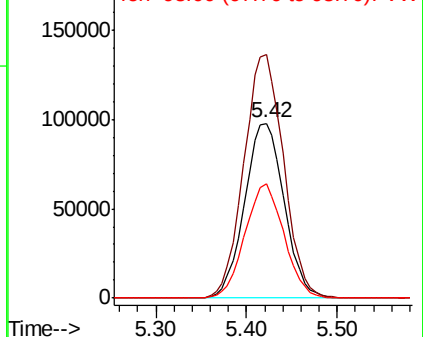


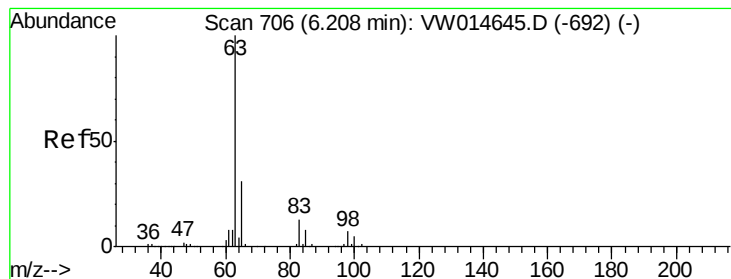
Abundance

Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 23.290 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

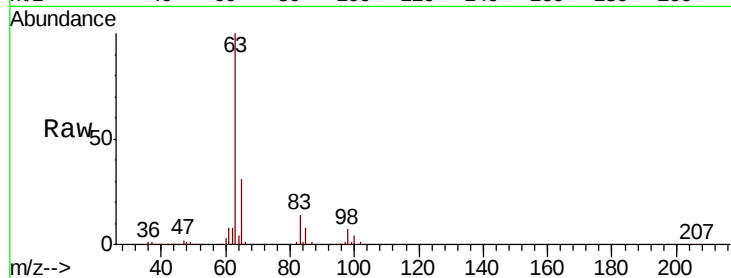
Tot Ion: 63 Resp: 536312

Ion Ratio Lower Upper

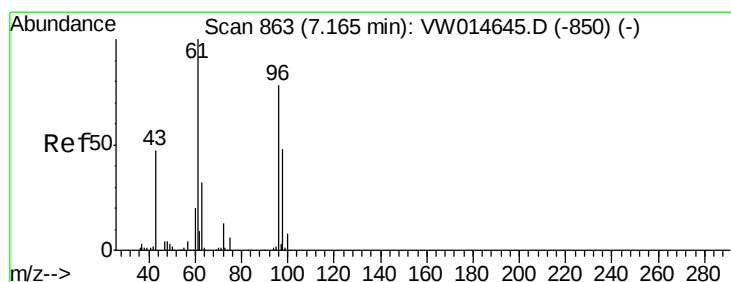
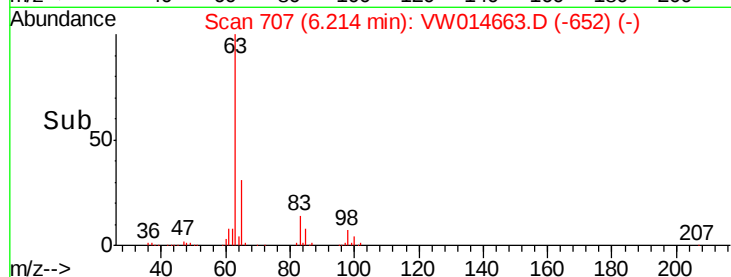
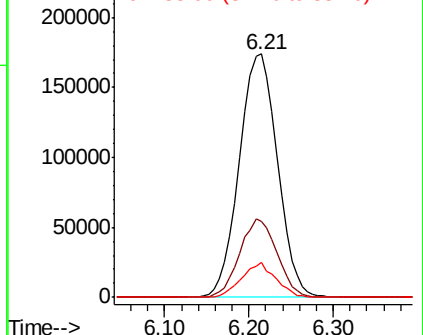
63 100

65 31.3 21.7 40.3

83 14.2 9.0 16.8



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: 46.560 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW014663.D

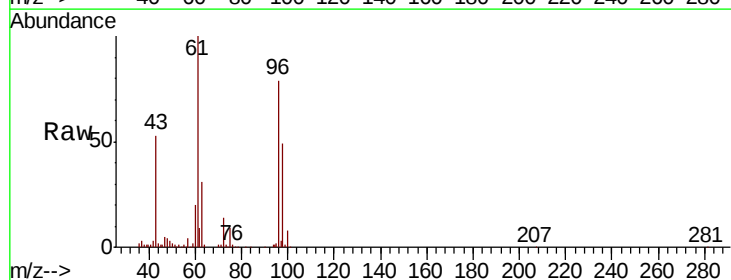
Acq: 16 Jan 2020 09:59

Tgt Ion: 43 Resp: 219272

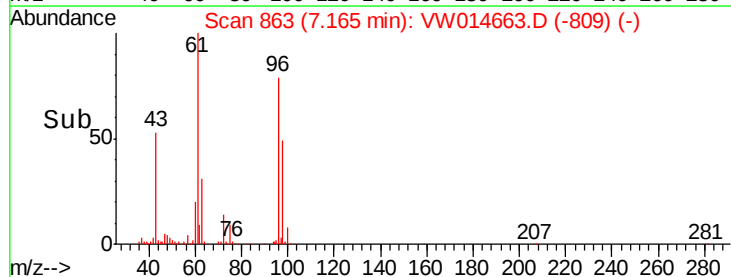
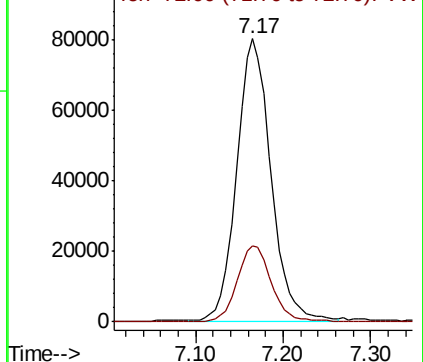
Ion Ratio Lower Upper

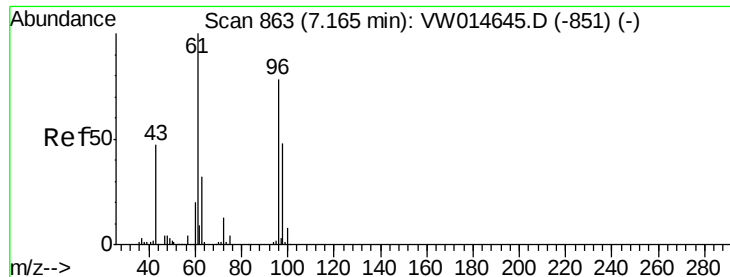
43 100

72 26.5 13.3 39.8



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



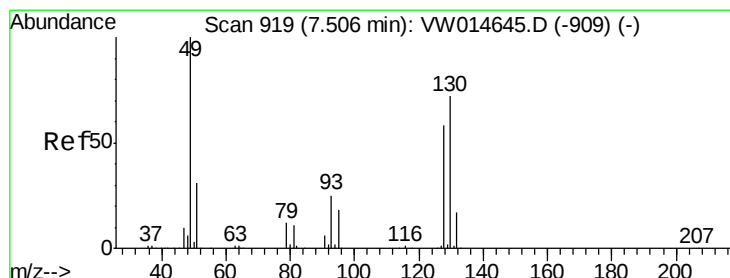
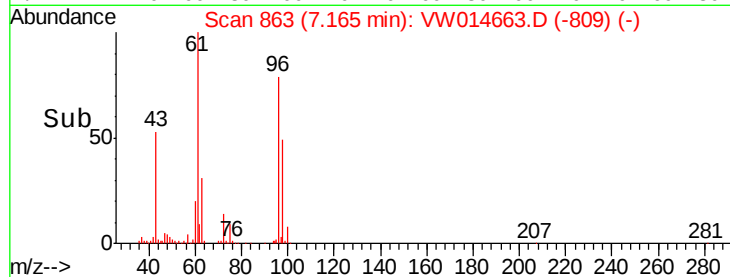
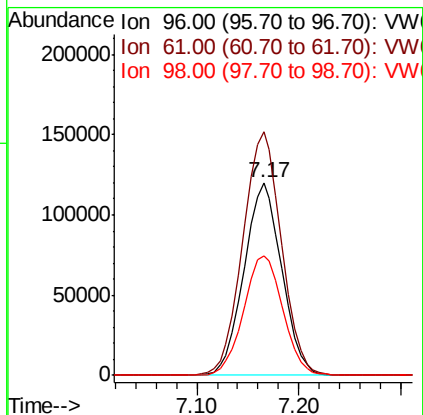
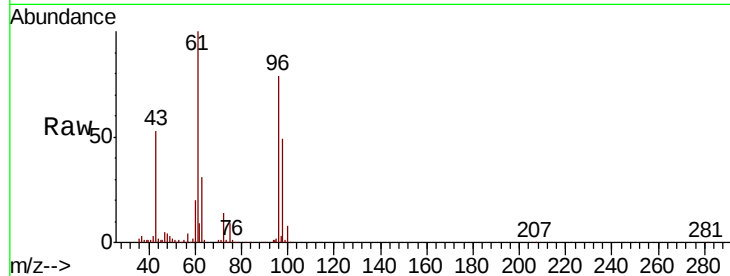


#22

cis-1,2-Dichloroethene
 Concen: 23.024 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

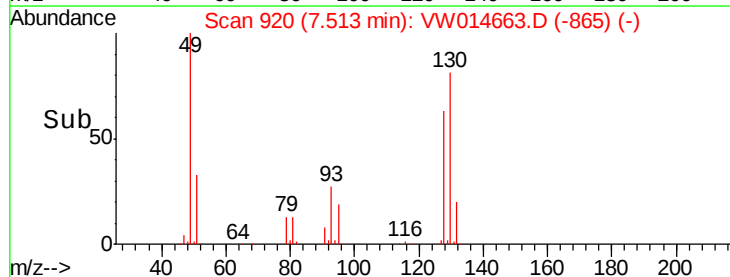
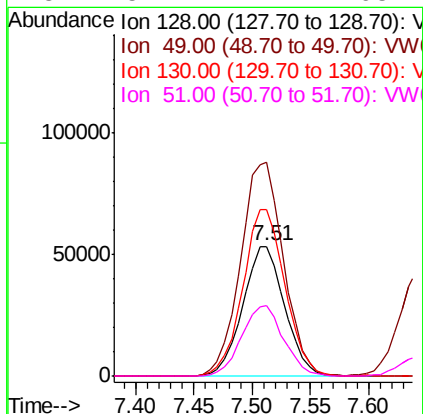
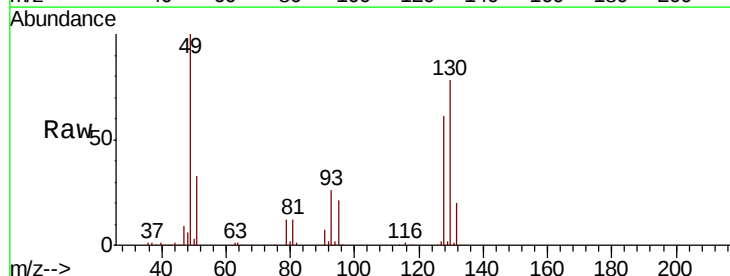
Tot Ion: 96 Resp: 308724
 Ion Ratio Lower Upper
 96 100
 61 126.2 91.5 169.9
 98 62.0 46.9 87.1

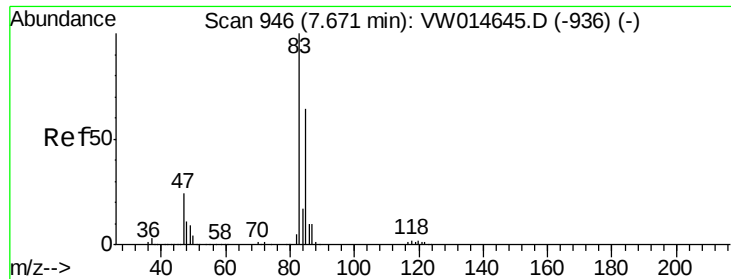


#23

Bromochloromethane
 Concen: 22.872 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

Tgt Ion: 128 Resp: 132766
 Ion Ratio Lower Upper
 128 100
 49 165.1 118.3 219.7
 130 128.9 89.5 166.1
 51 54.4 42.1 63.1





#25

Chloroform

Concen: 22.953 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

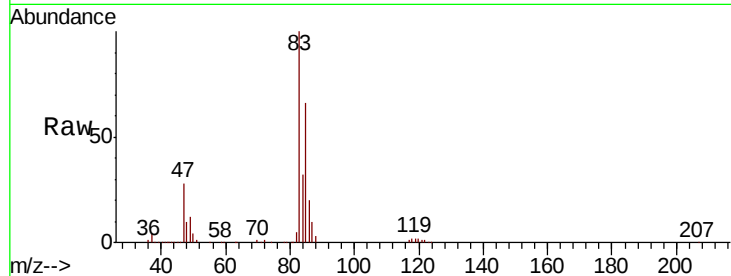
VSTD02516

Tot Ion: 83 Resp: 505554

Ion Ratio Lower Upper

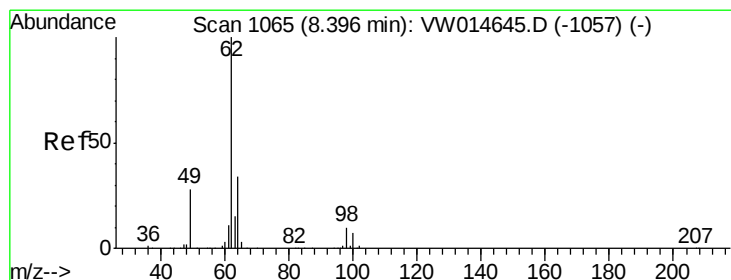
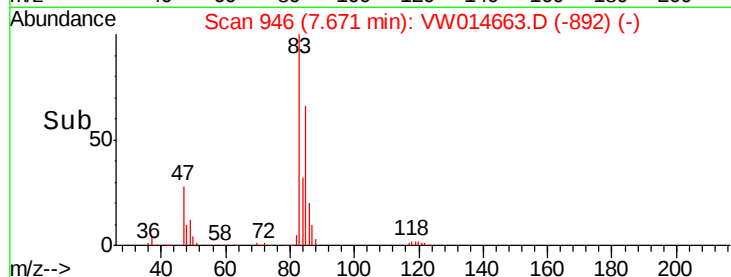
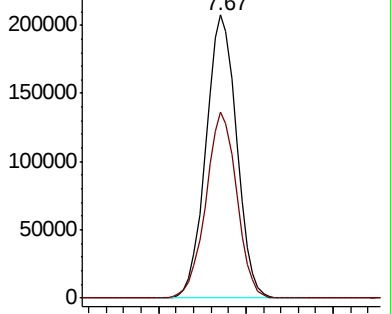
83 100

85 66.2 45.8 85.2



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 22.415 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014663.D

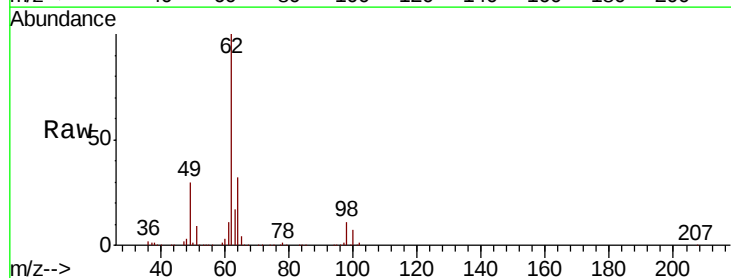
Acq: 16 Jan 2020 09:59

Tgt Ion: 62 Resp: 320488

Ion Ratio Lower Upper

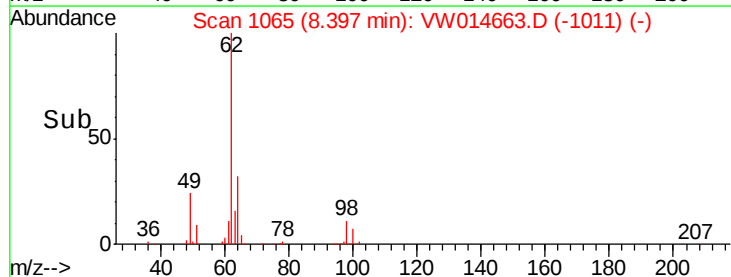
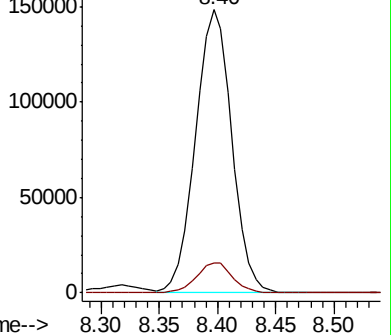
62 100

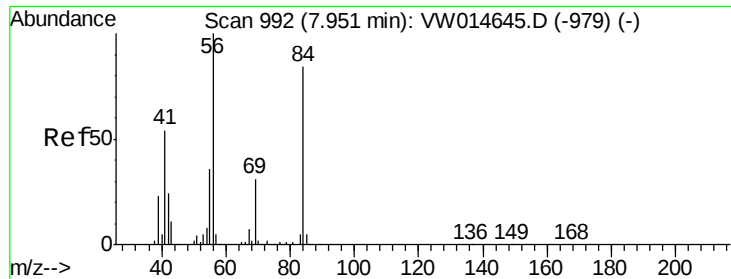
98 10.7 8.3 12.5



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

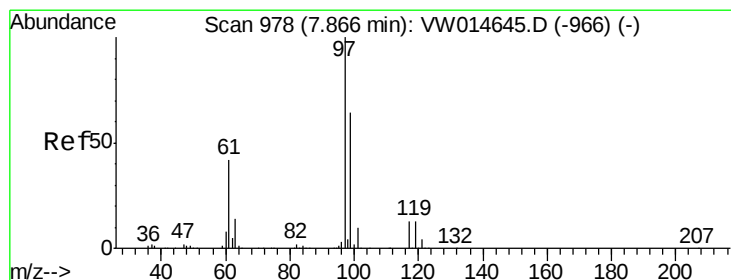
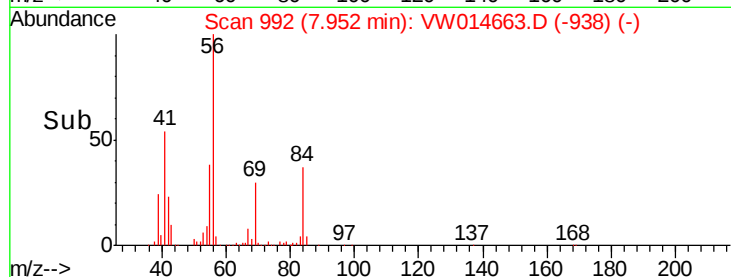
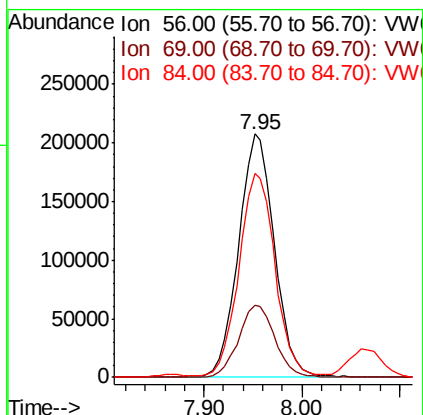
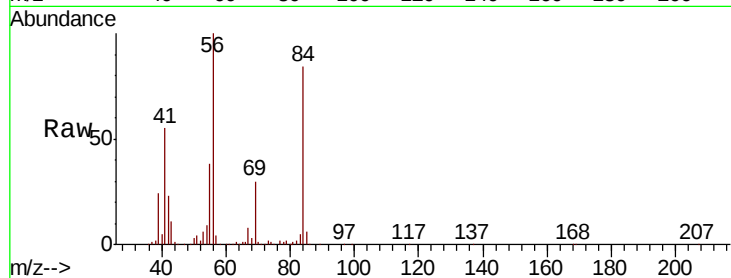




#30
Cyclohexane
Concen: 25.052 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014663.D
Acq: 16 Jan 2020 09:59

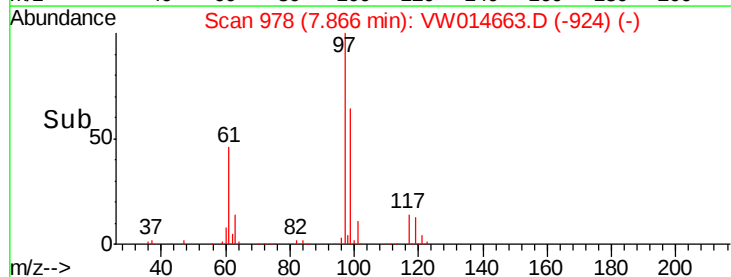
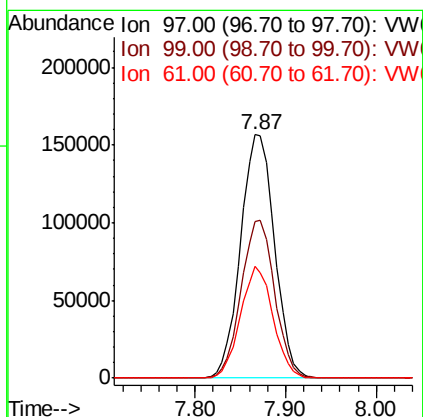
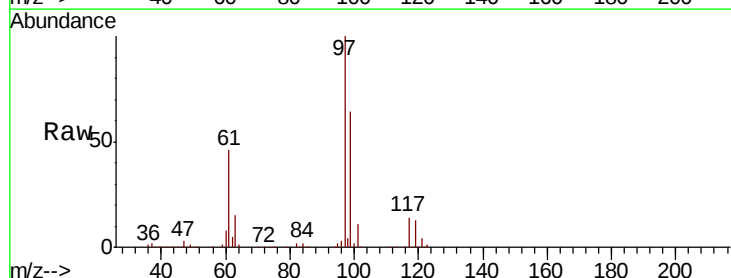
Instrument :
MSVOA_W
ClientSampleId :
VSTD02516

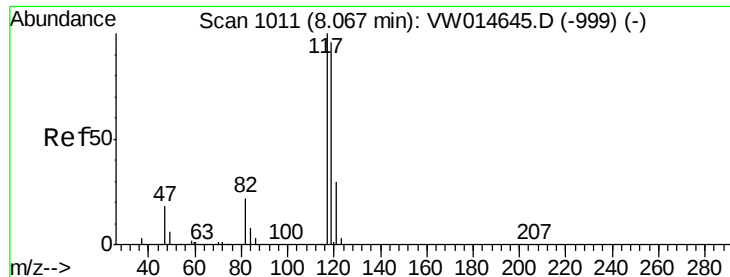
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.8	35.8
84	84.6	68.2	102.2



#31
1,1,1-Trichloroethane
Concen: 24.047 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW014663.D
Acq: 16 Jan 2020 09:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.6	77.4
61	44.1	35.3	52.9





#32

Carbon tetrachloride

Concen: 24.408 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

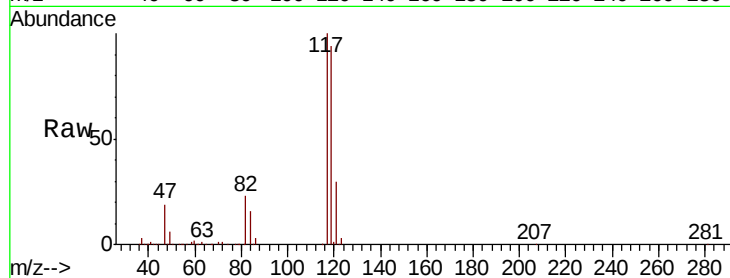
VSTD02516

Tot Ion:117 Resp: 383952

Ion Ratio Lower Upper

117 100

119 94.8 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.06

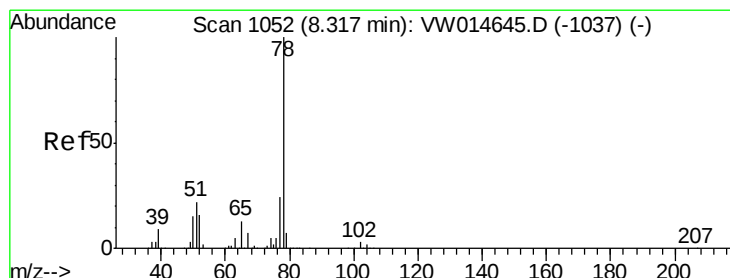
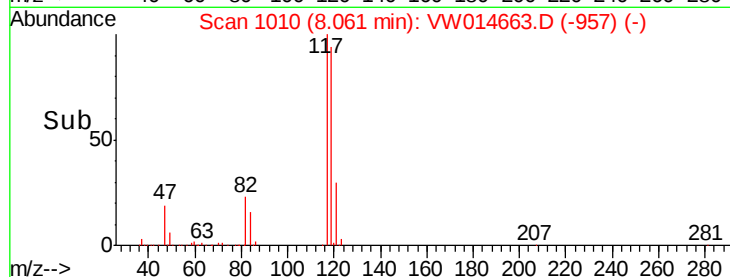
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 24.385 ug/L

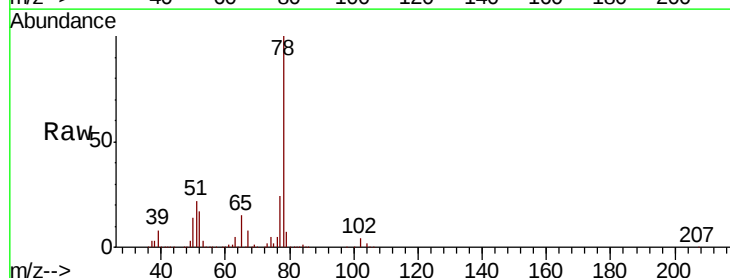
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Tgt Ion: 78 Resp: 1207822



Abundance Ion 78.00 (77.70 to 78.70): VW

600000

500000

400000

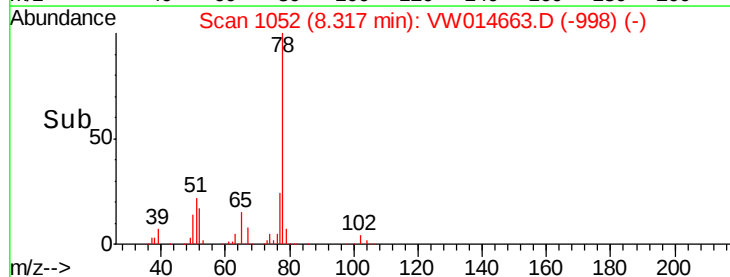
300000

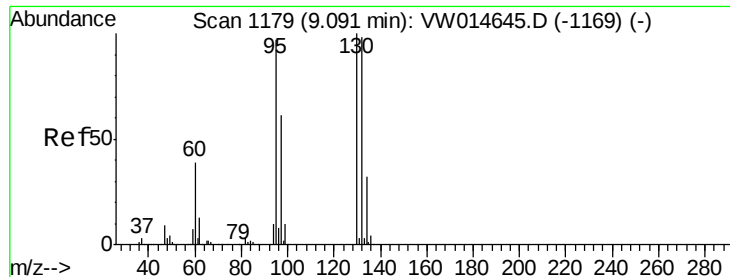
200000

100000

0

Time-->

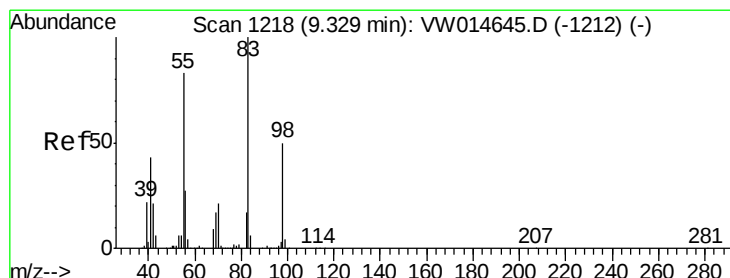
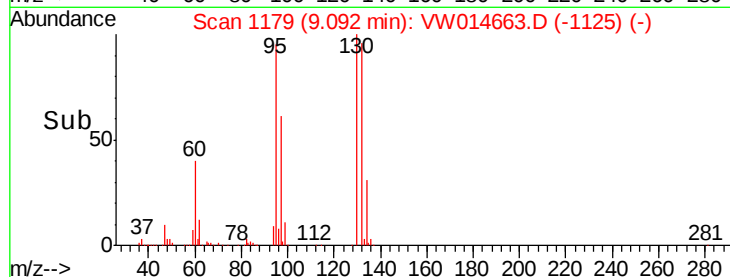
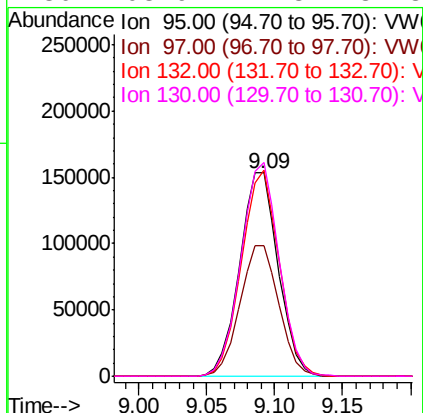
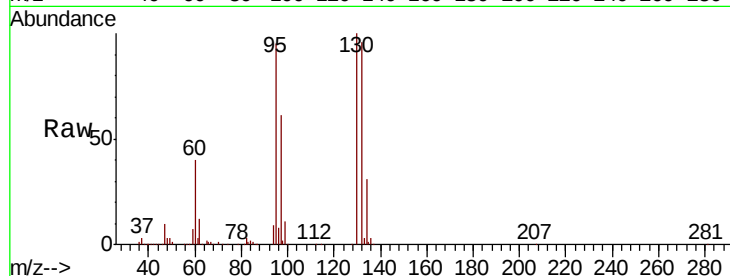




#35
 Trichloroethene
 Concen: 23.883 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.00 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

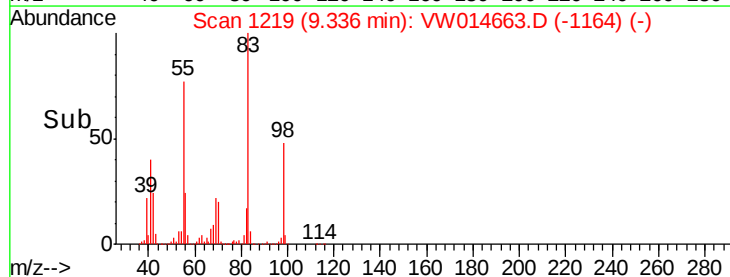
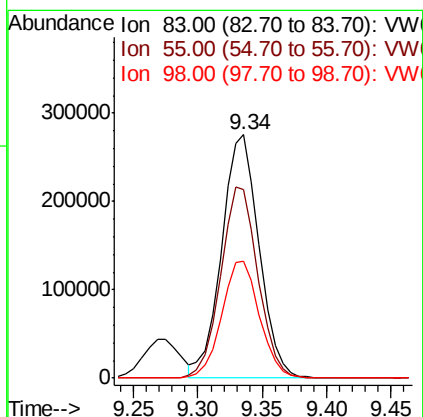
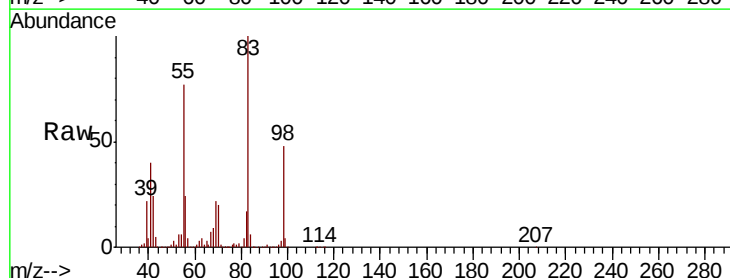
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

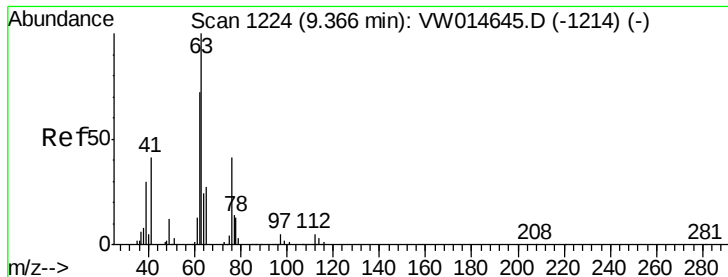
Tot Ion:	95	Resp:	305305
Ion	Ratio	Lower	Upper
95	100		
97	64.7	44.3	82.3
132	99.0	69.2	128.6
130	103.9	72.3	134.3



#36
 Methylcyclohexane
 Concen: 24.949 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

Tgt Ion:	83	Resp:	559536
Ion	Ratio	Lower	Upper
83	100		
55	78.5	63.7	95.5
98	48.3	39.4	59.2

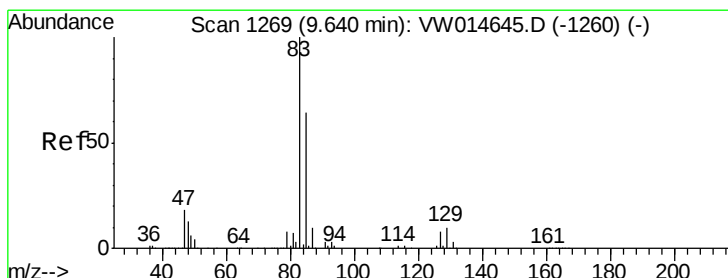
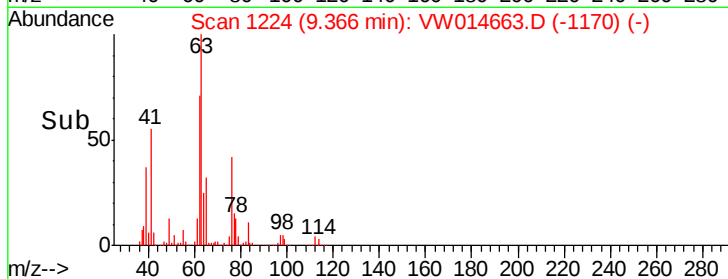
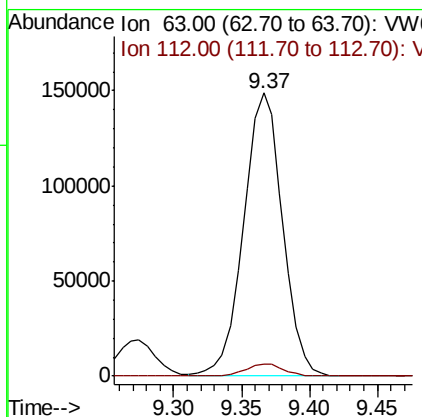
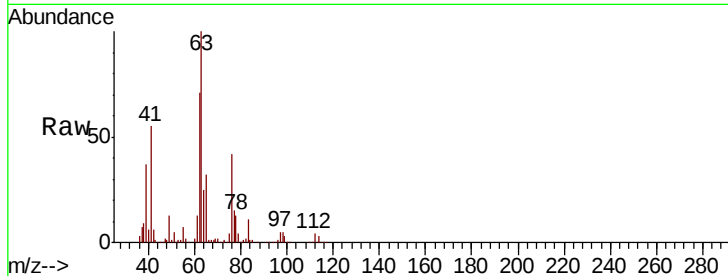




#40
 1,2-Dichloropropane
 Concen: 23.768 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

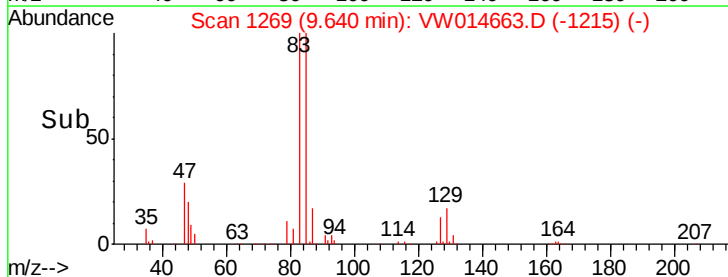
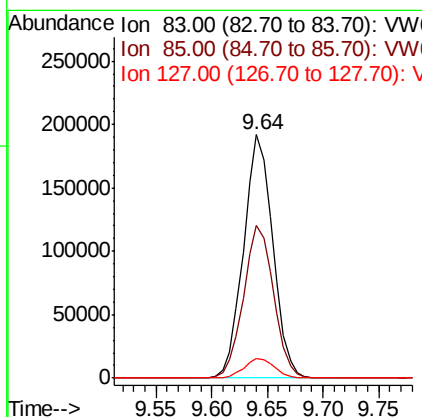
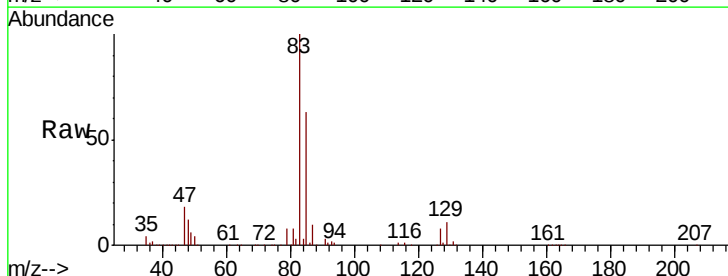
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

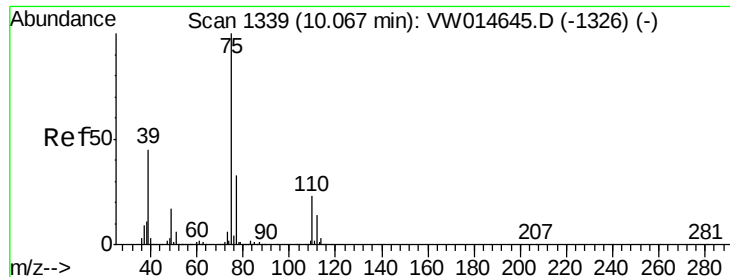
Tot Ion: 63 Resp: 297975
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.7 5.5



#41
 Bromodichloromethane
 Concen: 23.289 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

Tgt Ion: 83 Resp: 351199
 Ion Ratio Lower Upper
 83 100
 85 62.6 44.7 83.1
 127 7.8 6.3 9.5





#42

cis-1,3-Dichloropropene

Concen: 23.657 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampled :

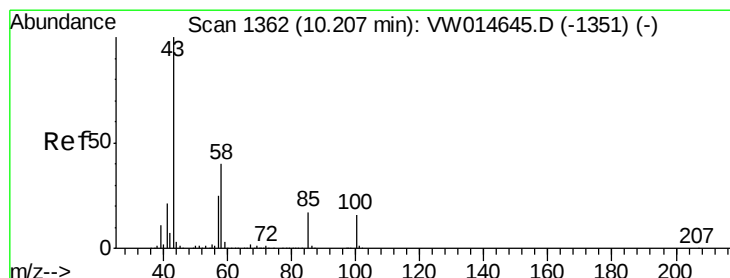
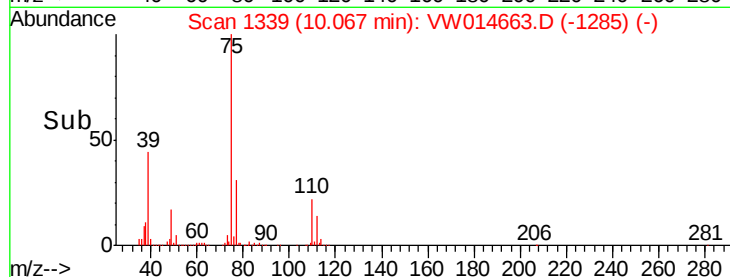
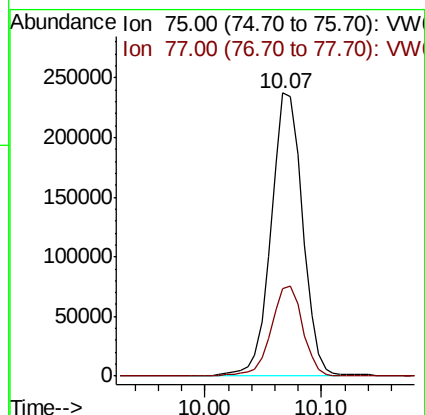
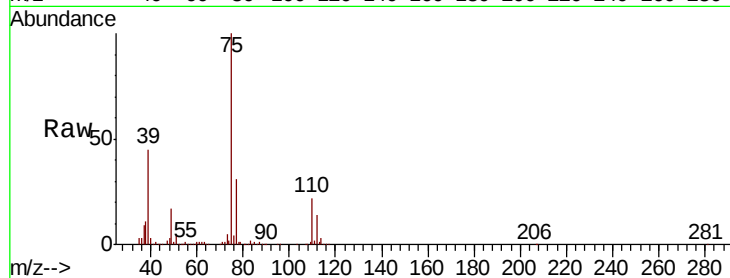
VSTD02516

Tot Ion: 75 Resp: 443039

Ion Ratio Lower Upper

75 100

77 31.0 21.0 39.0



#43

4-Methyl-2-pentanone

Concen: 48.233 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

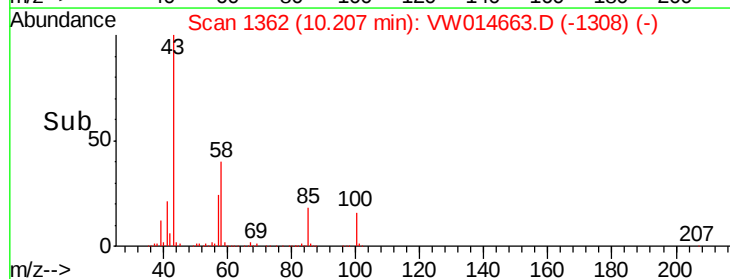
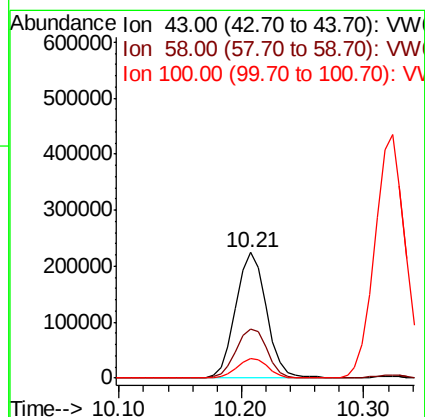
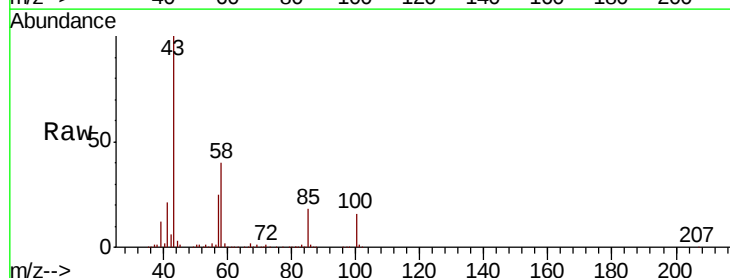
Tgt Ion: 43 Resp: 388187

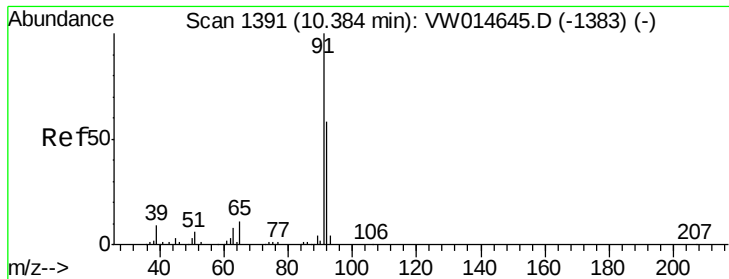
Ion Ratio Lower Upper

43 100

58 40.4 32.6 48.8

100 16.0 12.6 19.0





#44

Toluene

Concen: 24.624 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

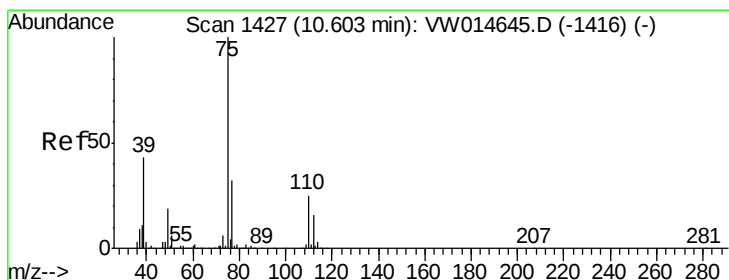
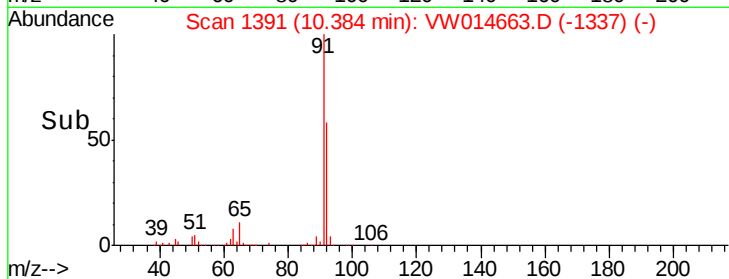
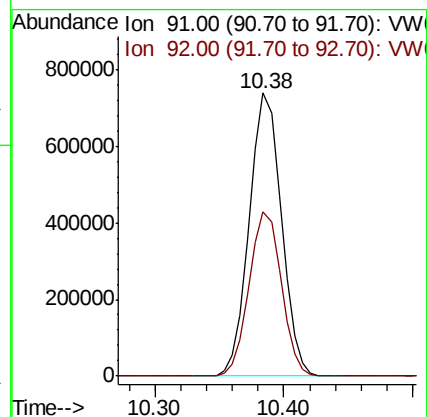
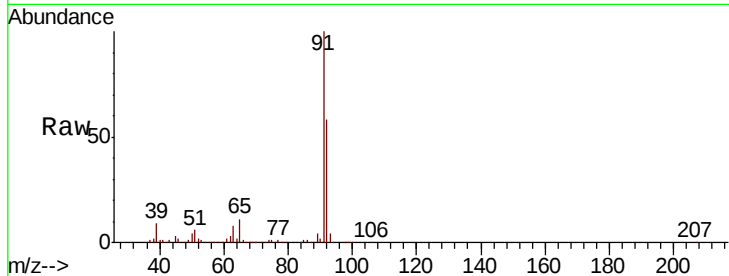
VSTD02516

Tot Ion: 91 Resp: 1274618

Ion Ratio Lower Upper

91 100

92 57.9 40.2 74.6



#45

trans-1,3-Dichloropropene

Concen: 23.458 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014663.D

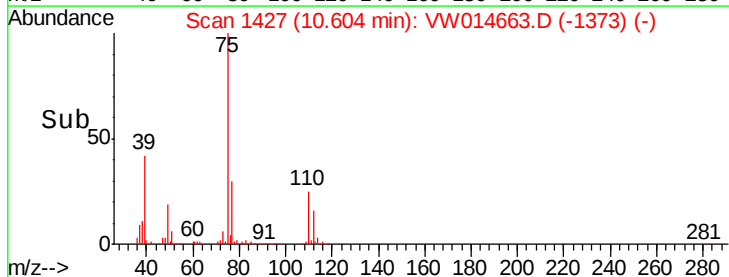
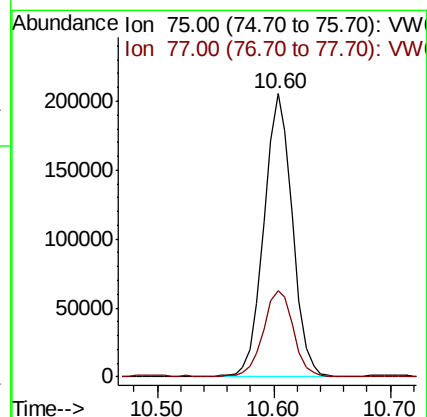
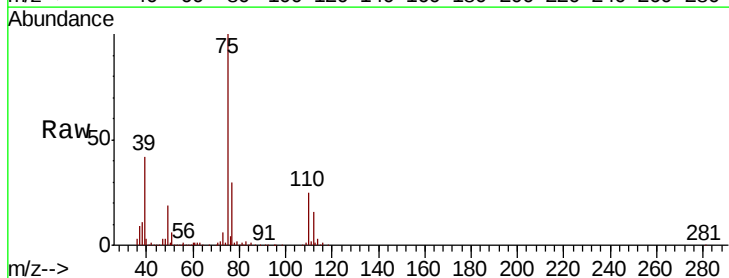
Acq: 16 Jan 2020 09:59

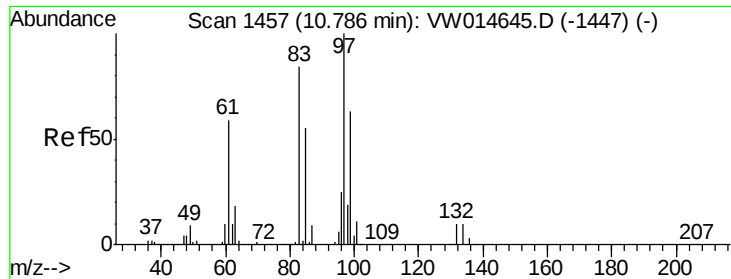
Tgt Ion: 75 Resp: 351272

Ion Ratio Lower Upper

75 100

77 30.4 21.1 39.3





#46

1,1,2-Trichloroethane

Concen: 23.886 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

Tot Ion: 97 Resp: 212110

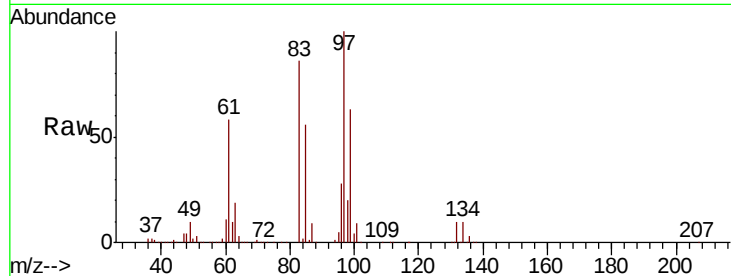
Ion Ratio Lower Upper

97 100

83 86.4 60.1 111.5

85 55.9 38.1 70.9

99 63.0 43.4 80.6



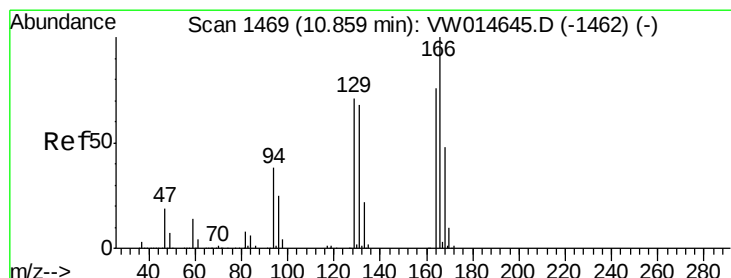
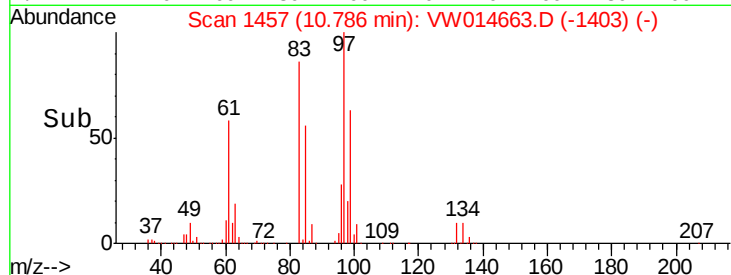
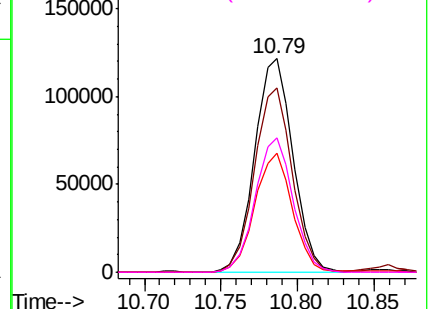
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 24.083 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Tgt Ion: 164 Resp: 258511

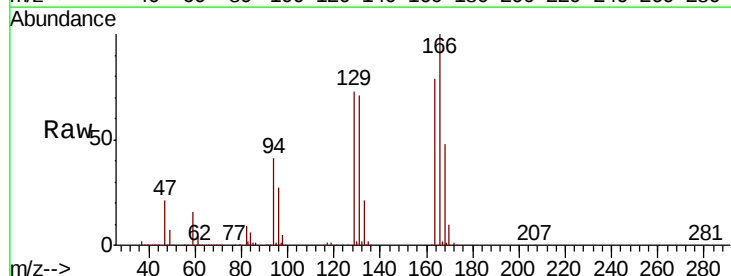
Ion Ratio Lower Upper

164 100

129 91.3 64.0 118.8

131 89.9 60.2 111.8

166 125.9 88.2 163.8



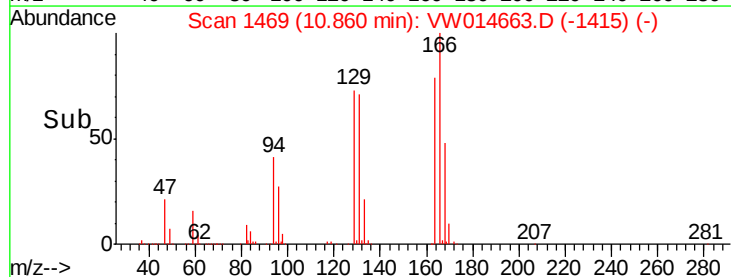
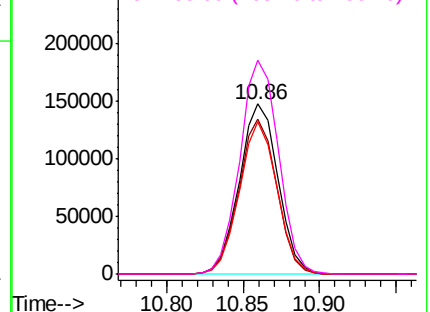
Abundance

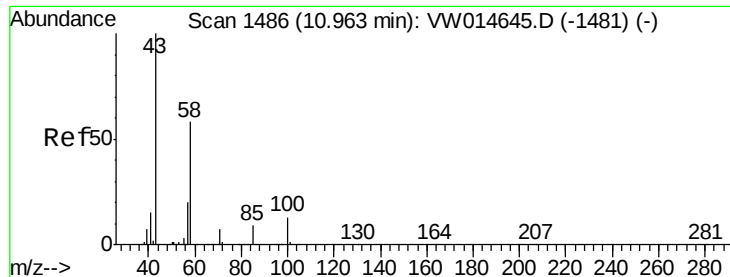
Ion 164.00 (163.70 to 164.70): V

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

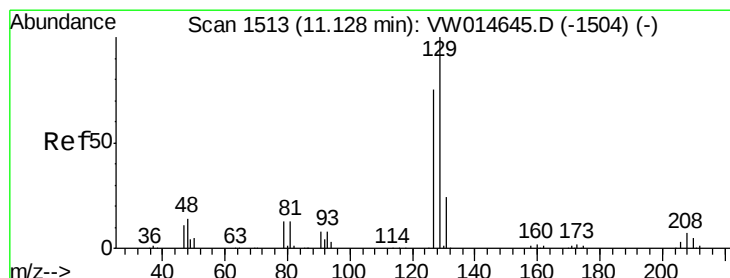
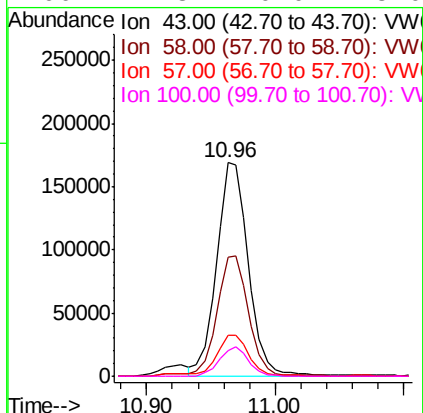
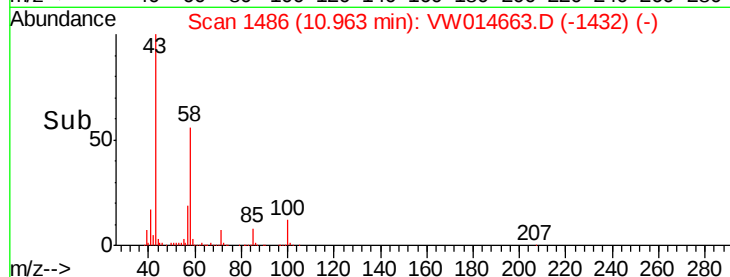
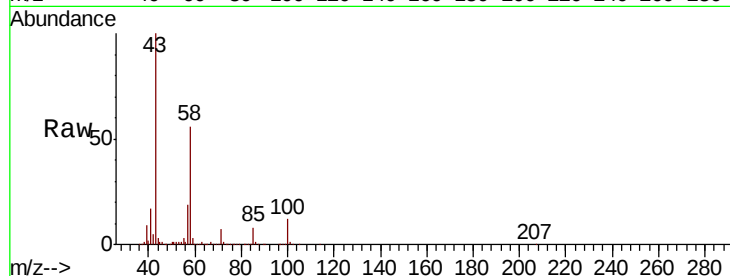




#49
2-Hexanone
Concen: 53.214 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014663.D
Acq: 16 Jan 2020 09:59

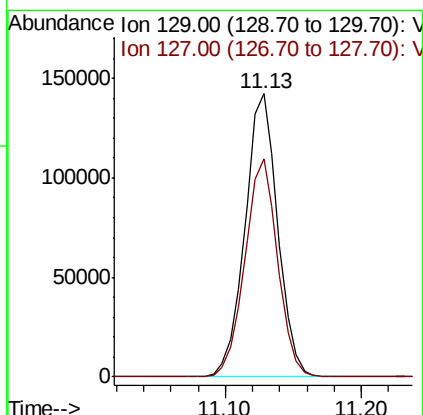
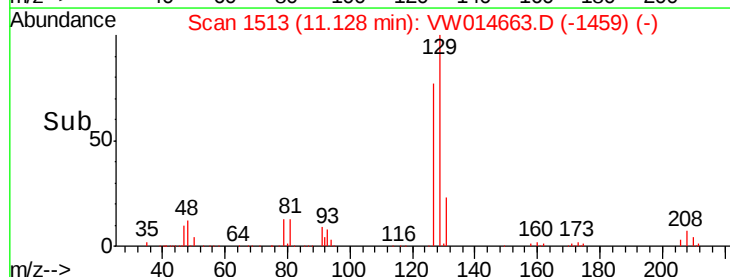
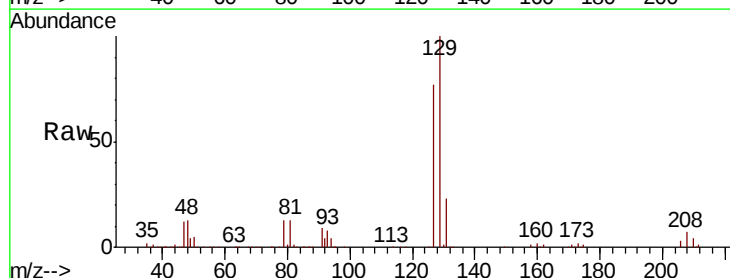
Instrument :
MSVOA_W
ClientSampleId :
VSTD02516

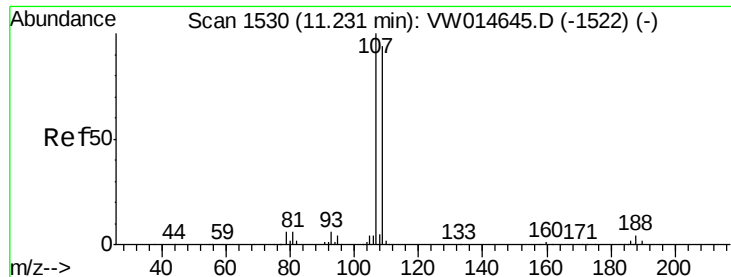
Tot Ion: 43 Resp: 292448
Ion Ratio Lower Upper
43 100
58 54.8 44.9 67.3
57 19.0 15.3 22.9
100 12.8 10.0 15.0



#50
Dibromochloromethane
Concen: 23.748 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014663.D
Acq: 16 Jan 2020 09:59

Tgt Ion: 129 Resp: 239454
Ion Ratio Lower Upper
129 100
127 76.9 51.1 94.9





#51

1,2-Dibromoethane

Concen: 23.922 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

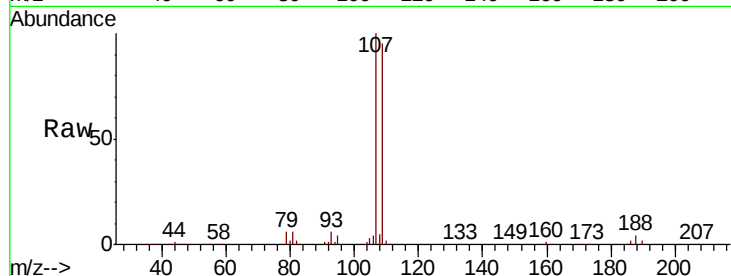
Tot Ion:107 Resp: 200523

Ion Ratio Lower Upper

107 100

109 94.5 64.7 120.1

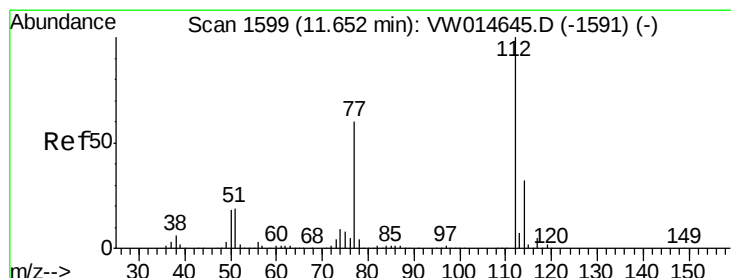
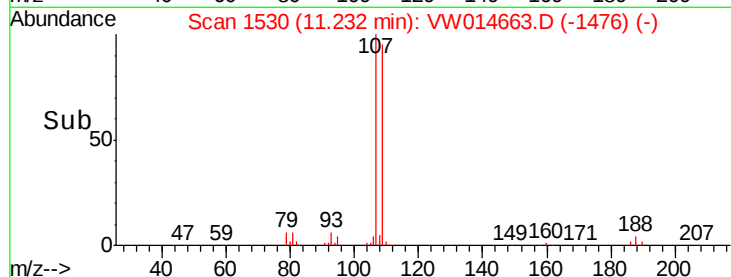
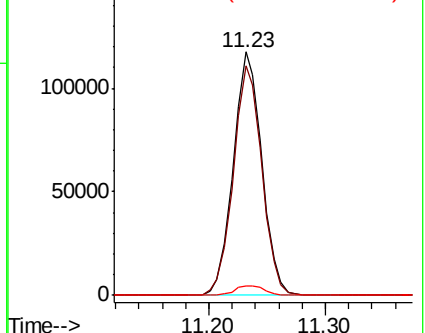
188 4.0 3.0 4.6



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: 23.597 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

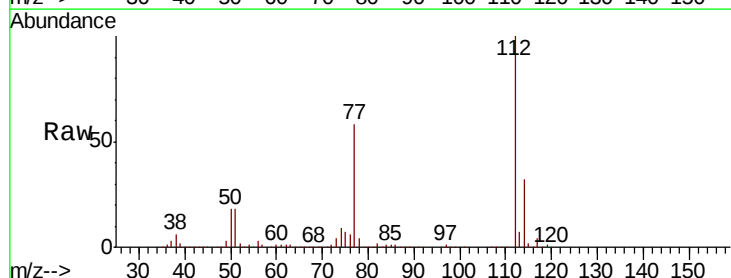
Tgt Ion:112 Resp: 772130

Ion Ratio Lower Upper

112 100

77 58.0 48.2 72.2

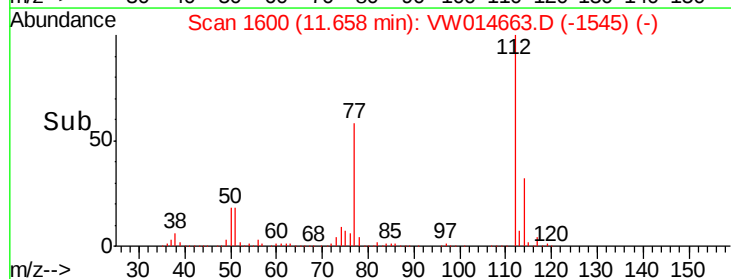
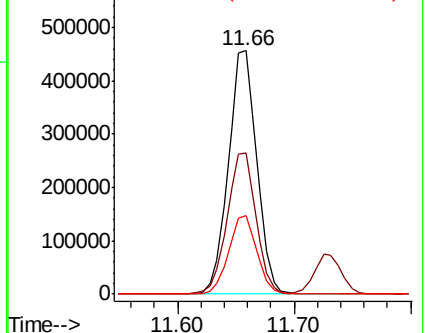
114 32.3 22.9 42.5

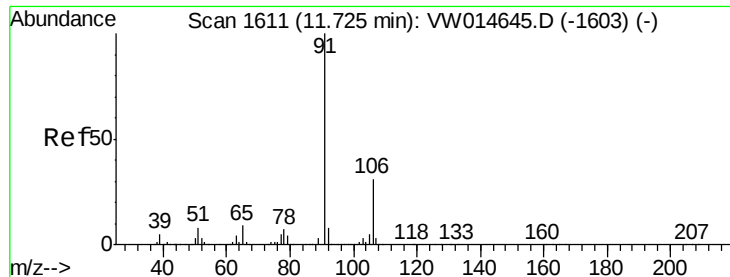


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.175 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

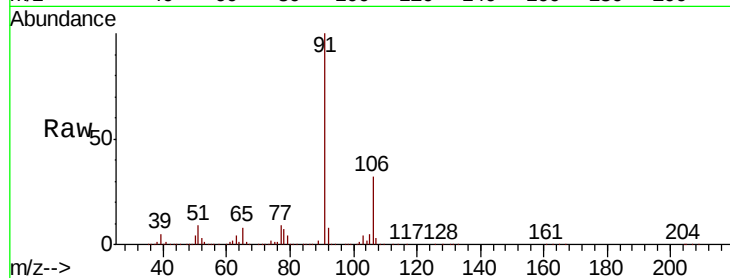
VSTD02516

Tot Ion: 91 Resp: 1375883

Ion Ratio Lower Upper

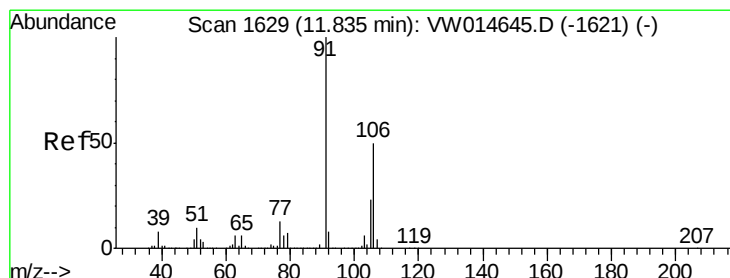
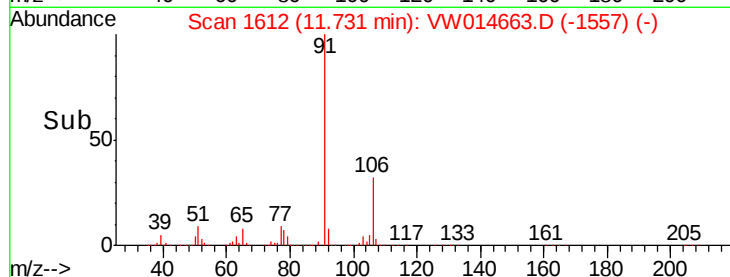
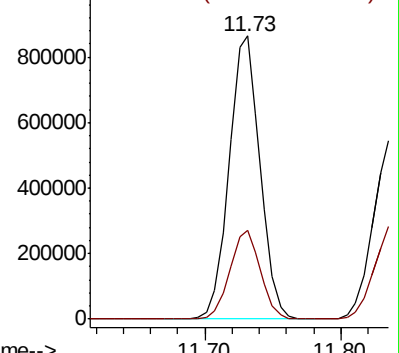
91 100

106 31.6 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 24.553 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VW014663.D

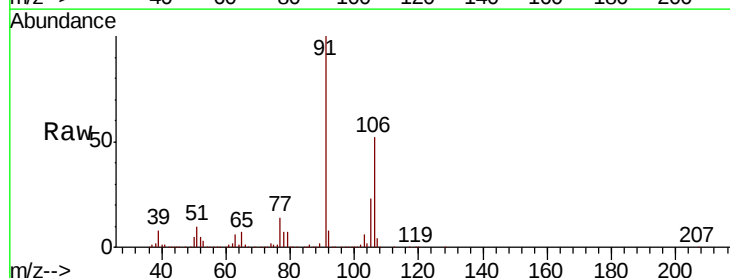
Acq: 16 Jan 2020 09:59

Tgt Ion: 106 Resp: 528804

Ion Ratio Lower Upper

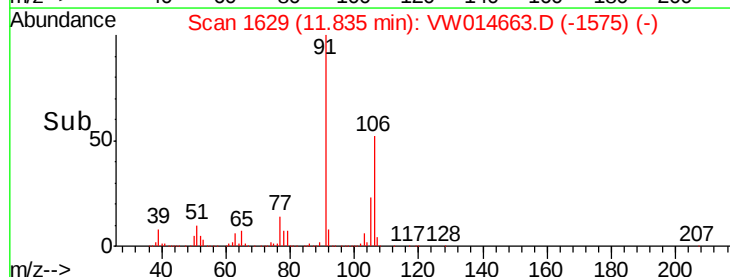
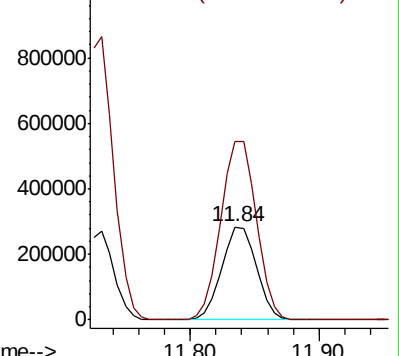
106 100

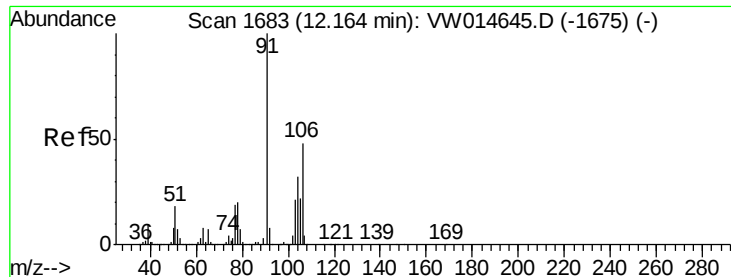
91 192.8 142.2 264.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 24.338 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

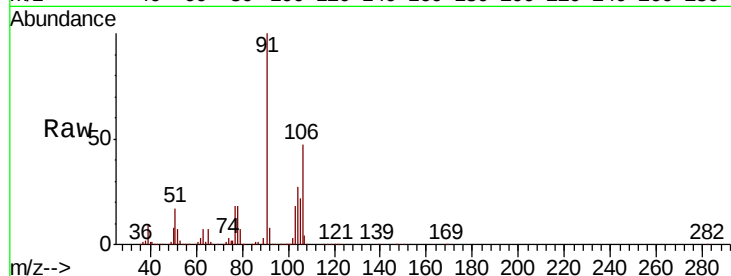
VSTD02516

Tot Ion:106 Resp: 495111

Ion Ratio Lower Upper

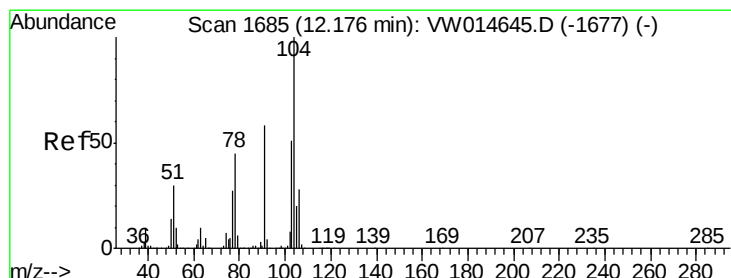
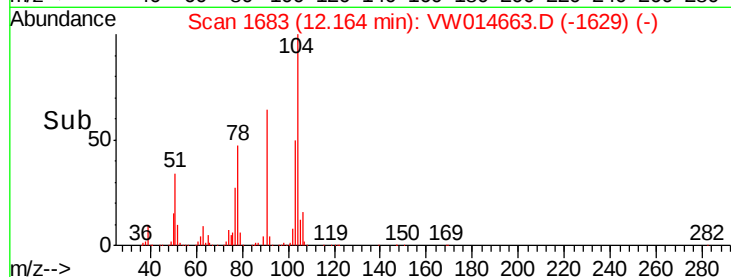
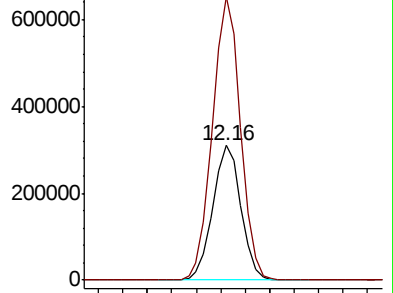
106 100

91 210.5 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 24.412 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014663.D

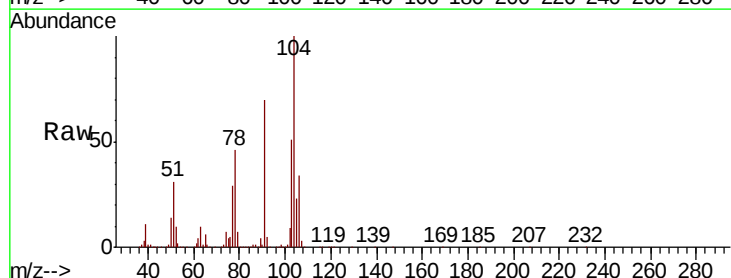
Acq: 16 Jan 2020 09:59

Tgt Ion:104 Resp: 835849

Ion Ratio Lower Upper

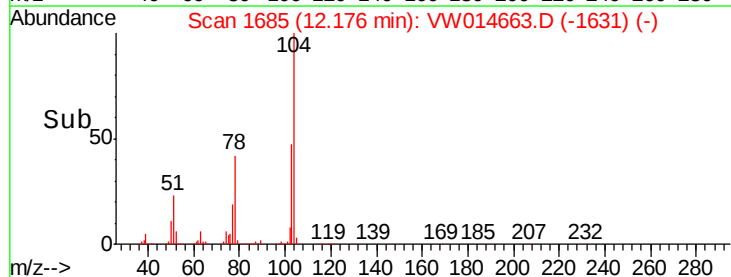
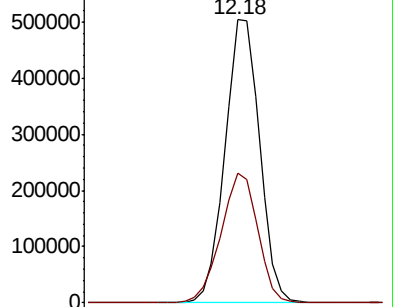
104 100

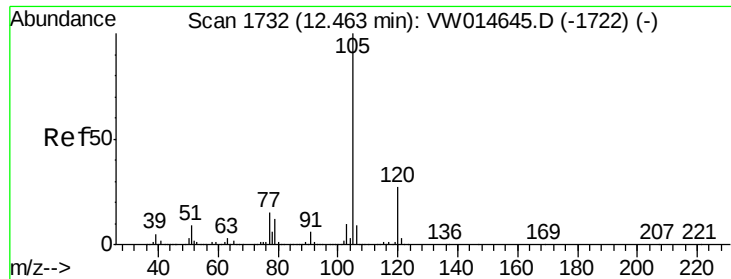
78 45.9 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 24.860 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

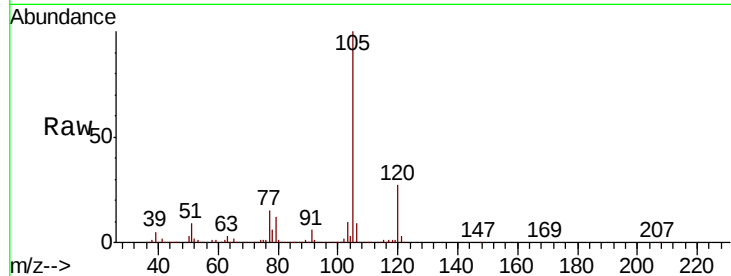
Tot Ion:105 Resp: 1345222

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.6

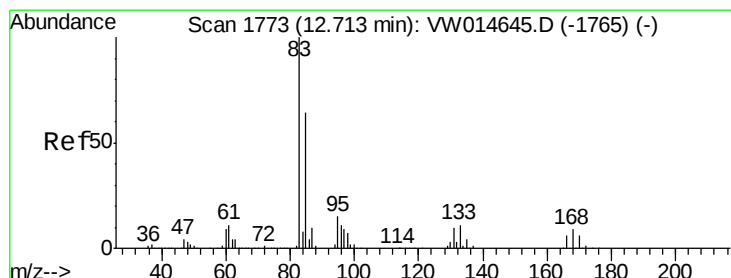
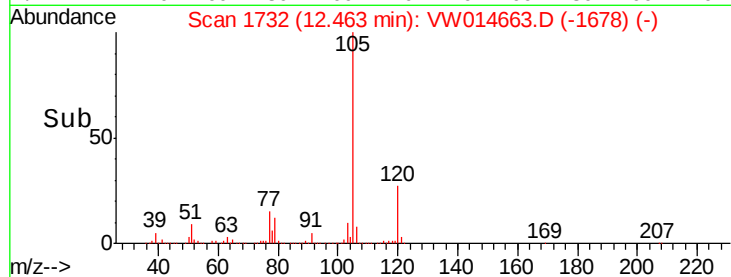
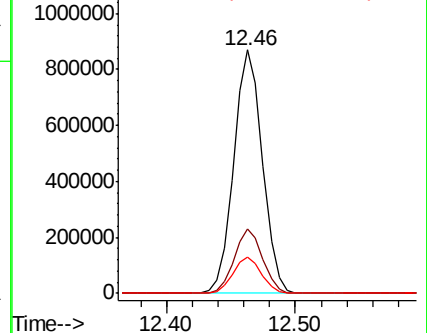
77 15.0 12.2 18.2



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: 23.852 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

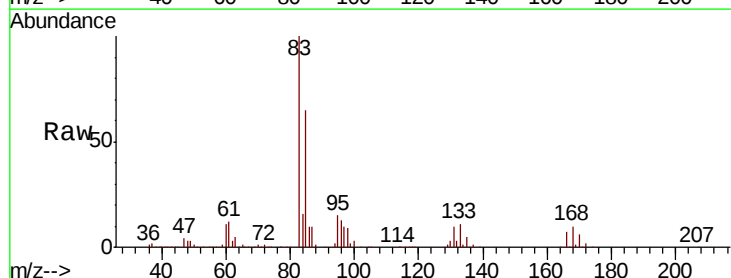
Tgt Ion: 83 Resp: 257171

Ion Ratio Lower Upper

83 100

85 64.6 45.3 84.1

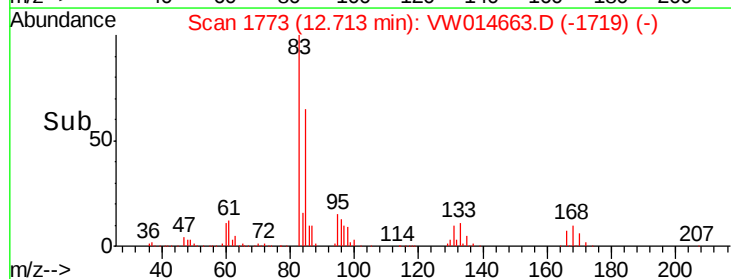
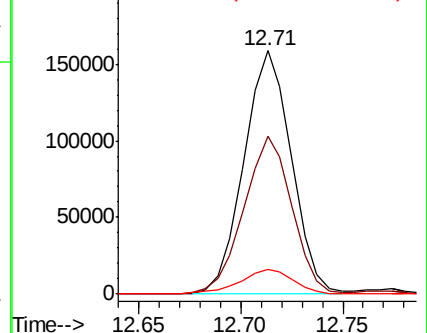
131 10.0 8.0 12.0

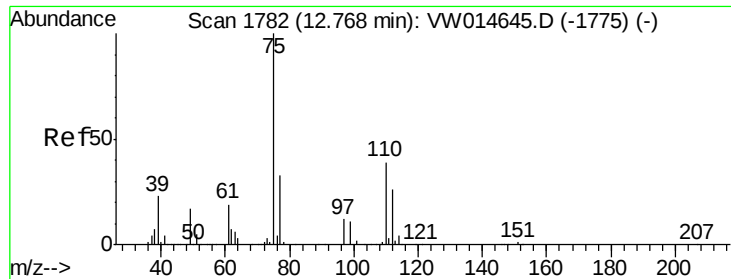


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 23.818 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

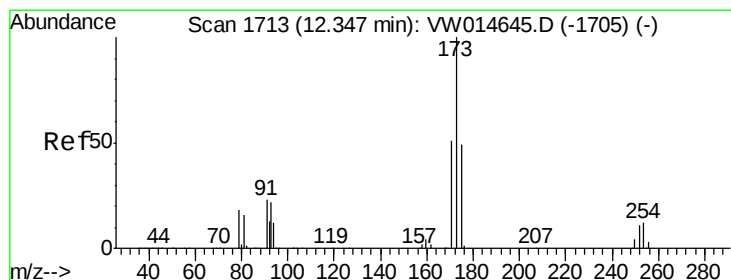
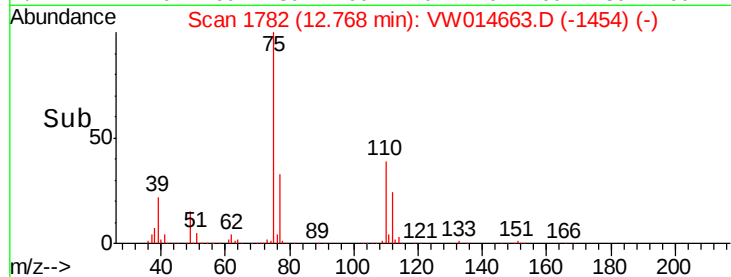
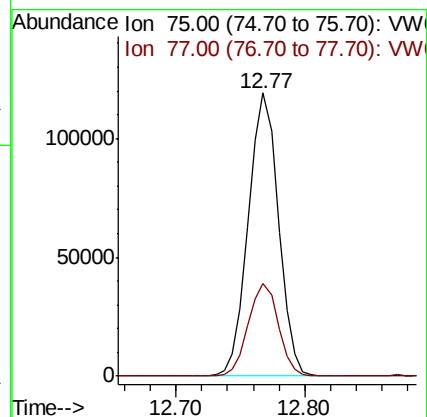
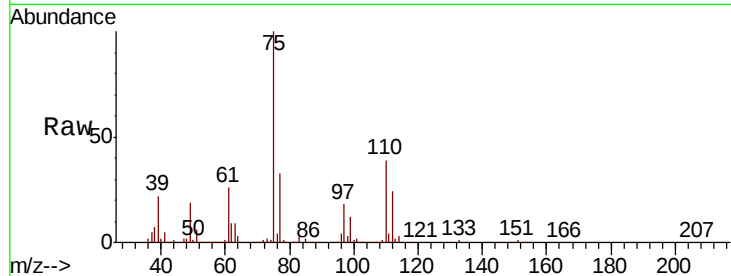
VSTD02516

Tot Ion: 75 Resp: 192373

Ion Ratio Lower Upper

75 100

77 32.8 26.2 39.2



#62

Bromoform

Concen: 24.158 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

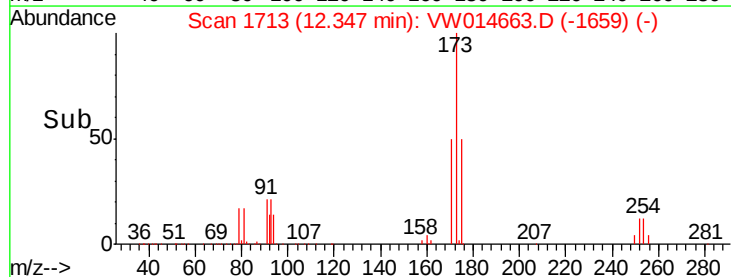
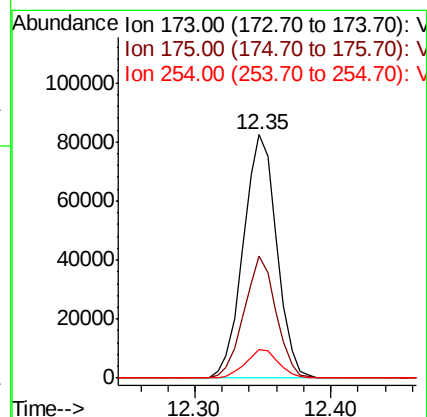
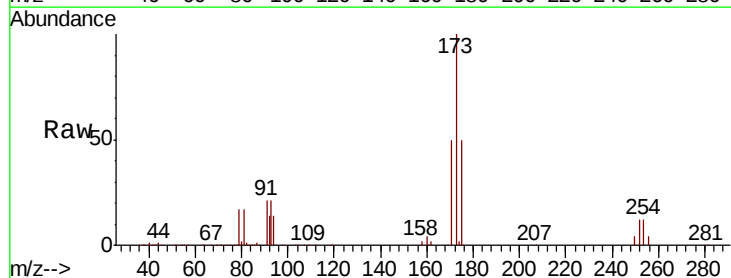
Tgt Ion: 173 Resp: 141096

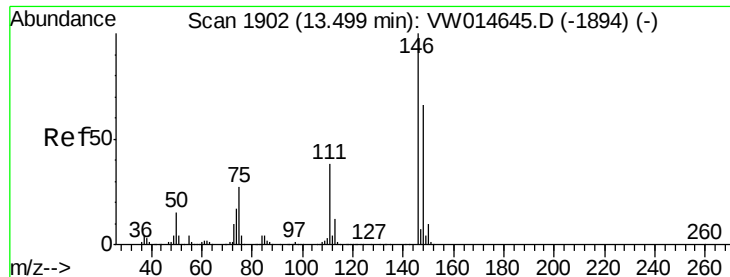
Ion Ratio Lower Upper

173 100

175 48.1 40.5 60.7

254 11.8 9.3 13.9

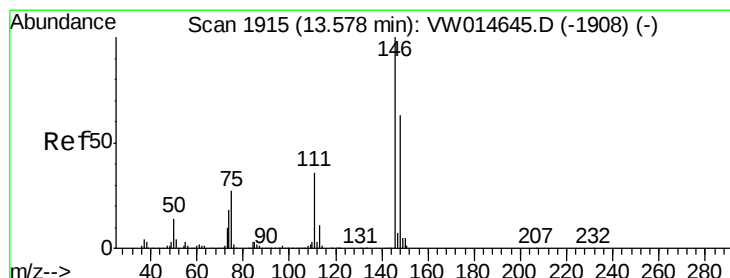
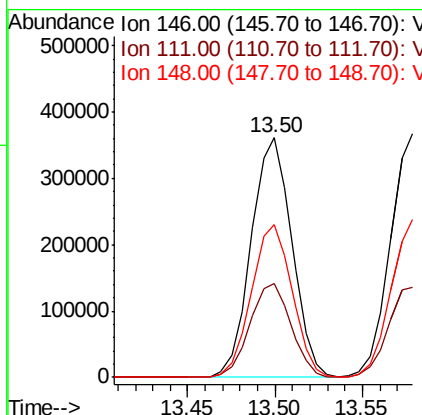
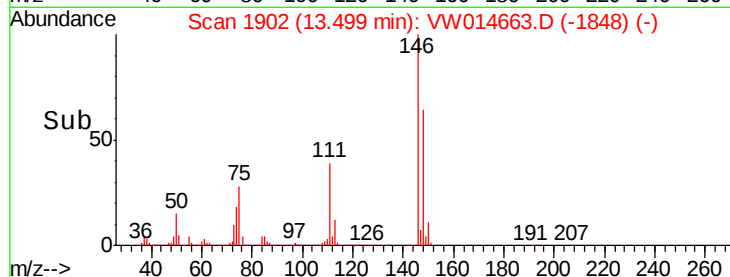
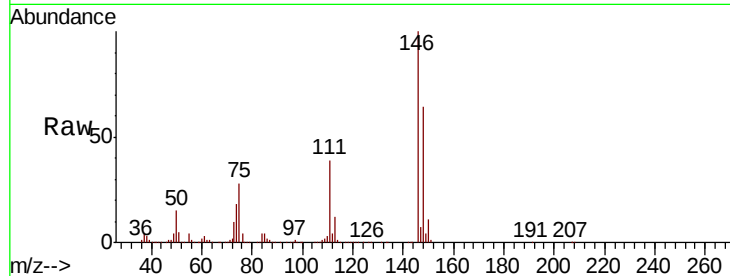




#63
 1,3-Dichlorobenzene
 Concen: 23.678 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

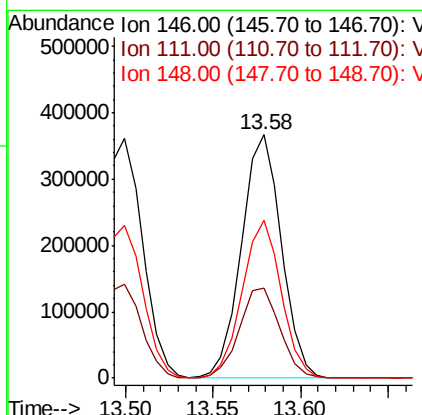
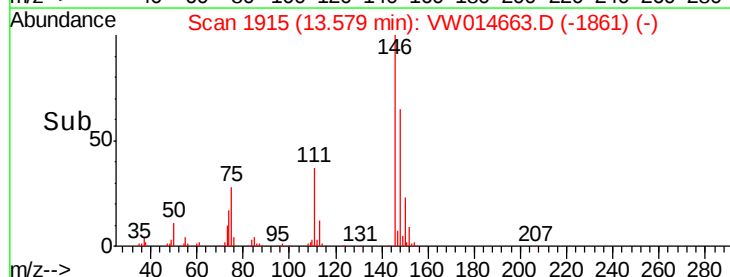
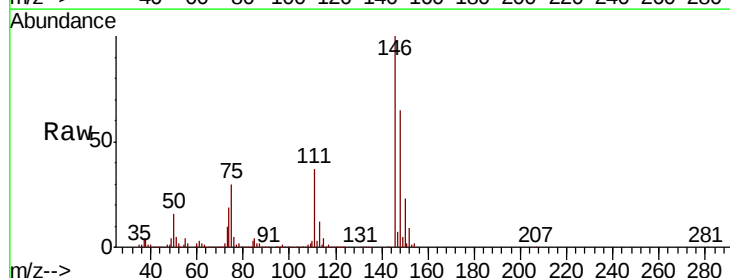
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

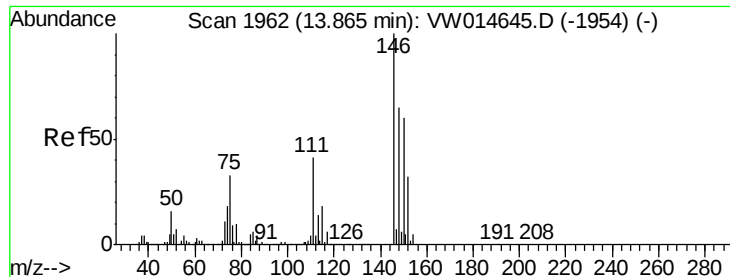
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	26.9	50.1
148	63.7	45.1	83.7



#64
 1,4-Dichlorobenzene
 Concen: 23.457 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	24.5	45.5
148	65.0	44.4	82.4





#65

1,2-Dichlorobenzene

Concen: 24.036 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.01 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

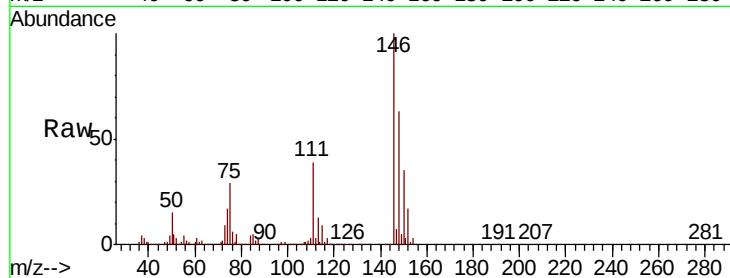
Tot Ion:146 Resp: 533190

Ion Ratio Lower Upper

146 100

111 38.6 34.2 51.2

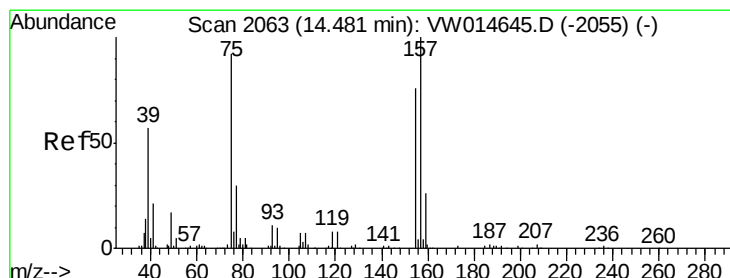
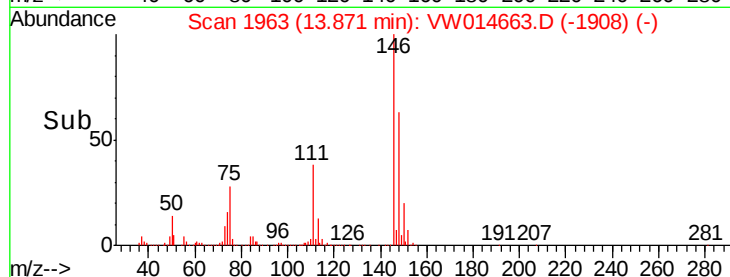
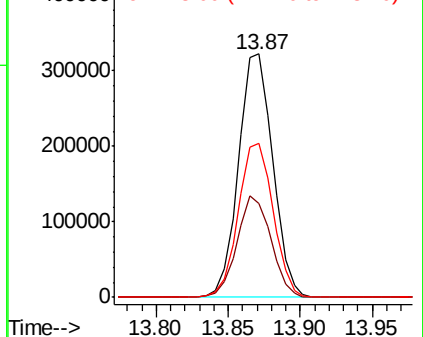
148 63.4 51.8 77.8



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: 23.846 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.01 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

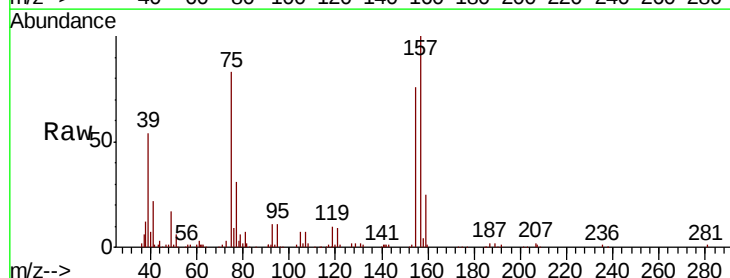
Tgt Ion: 75 Resp: 39171

Ion Ratio Lower Upper

75 100

157 120.4 87.2 130.8

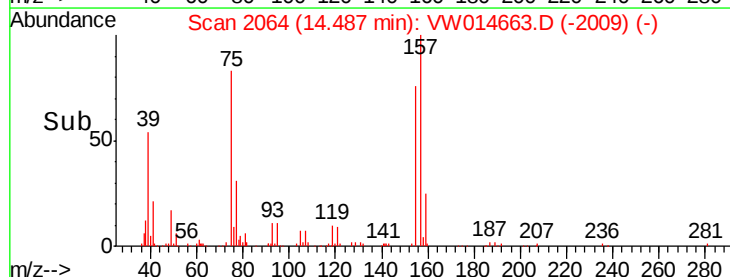
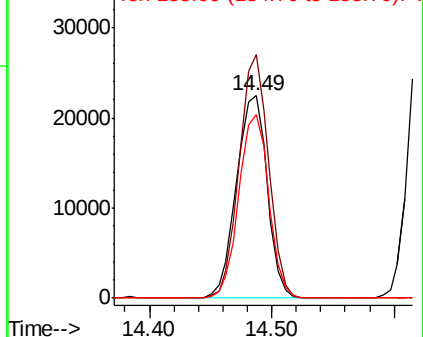
155 91.1 67.8 101.8

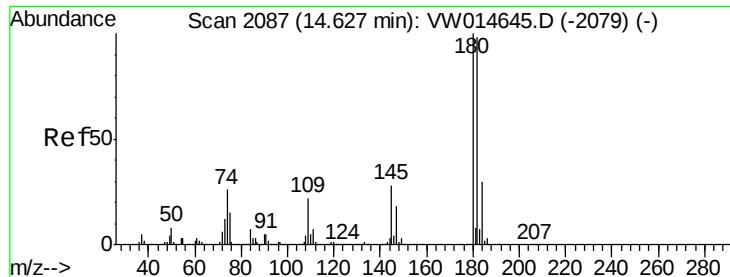


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

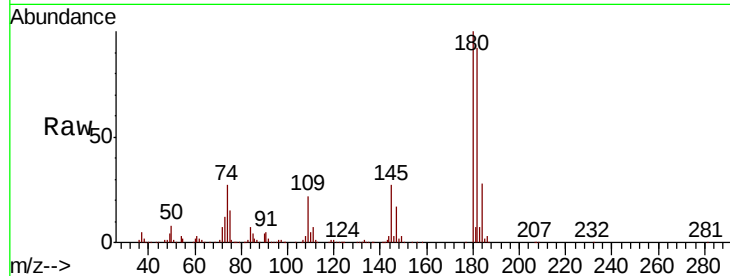




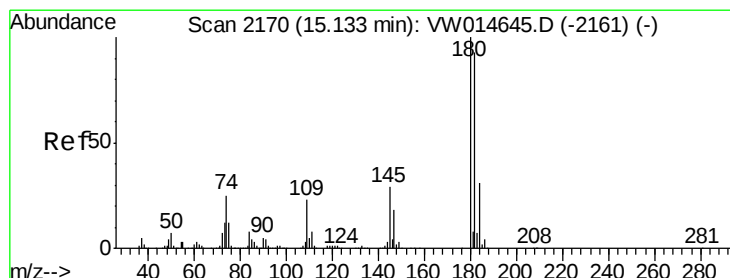
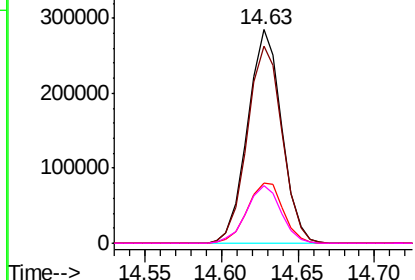
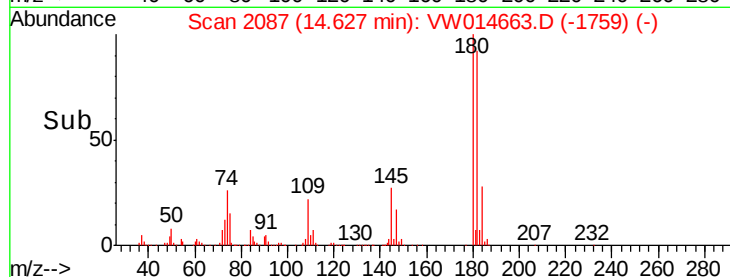
#67
 1,3,5-Trichlorobenzene
 Concen: 24.087 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02516

Tot Ion:180	Resp:	441527
Ion Ratio	Lower	Upper
180	100	
182	94.6	75.8 113.6
184	29.9	24.0 36.0
145	27.2	22.6 33.8

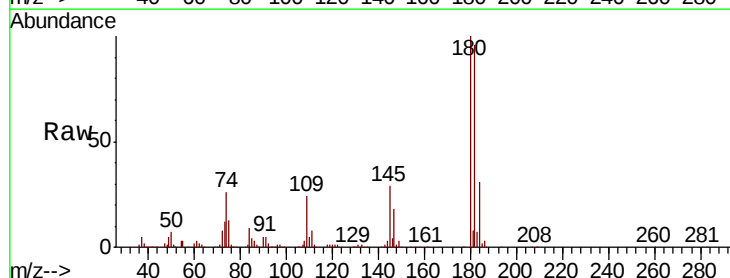


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

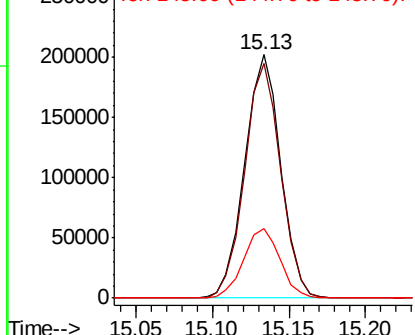
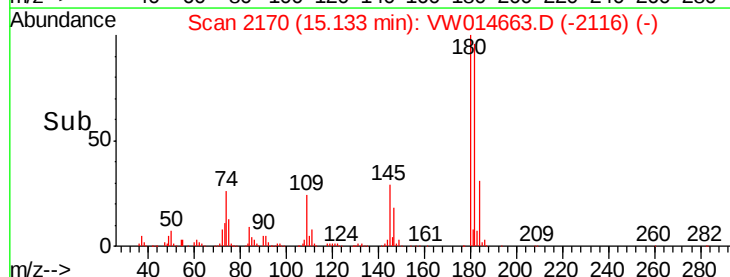


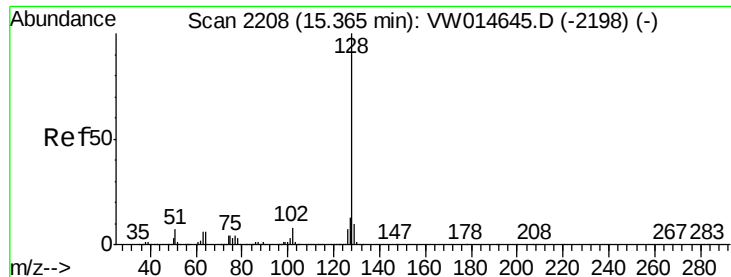
#68
 1,2,4-trichlorobenzene
 Concen: 24.110 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014663.D
 Acq: 16 Jan 2020 09:59

Tgt Ion:180	Resp:	331302
Ion Ratio	Lower	Upper
180	100	
182	96.0	76.2 114.4
145	29.1	23.1 34.7



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: 26.957 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

Instrument :

MSVOA_W

ClientSampleId :

VSTD02516

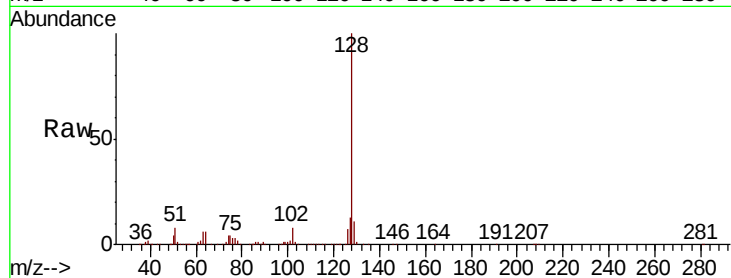
Tot Ion:128 Resp: 639497

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

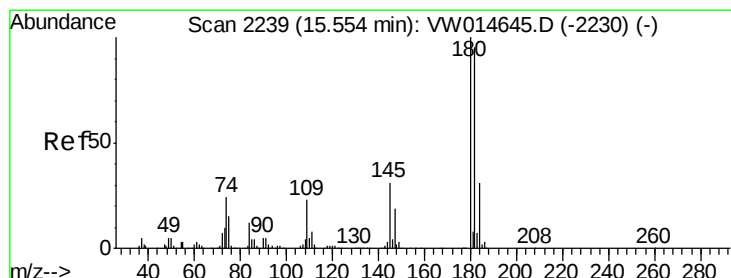
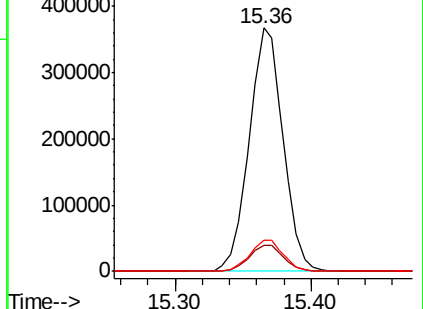
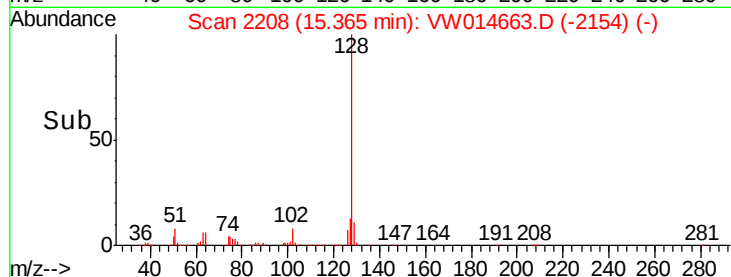
127 12.9 10.6 16.0



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: 24.178 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW014663.D

Acq: 16 Jan 2020 09:59

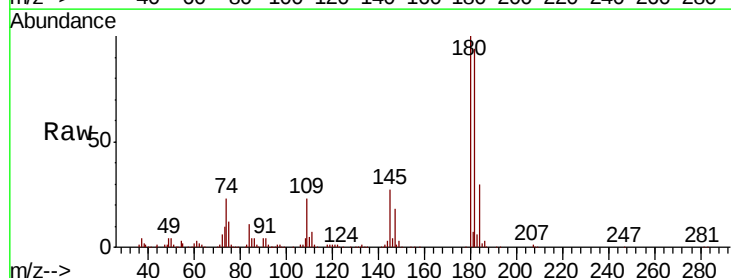
Tgt Ion:180 Resp: 301062

Ion Ratio Lower Upper

180 100

182 96.1 77.0 115.6

145 30.7 24.9 37.3



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

