

Data File : VW009946.D
Acq On : 12 Apr 2019 07:33
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.01G/10ML/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02529

Quant Time: Apr 12 08:41:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM040319S.M
Quant Title : VOC Analysis
QLast Update : Fri Apr 12 05:38:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	495208	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	483370	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	240569	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	148258	22.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.52%
7) Chloroethane-d5	2.89	69	134474	22.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.60%
10) 1,1-Dichloroethene-d2	4.02	63	363699	26.10	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	104.40%
20) 2-Butanone-d5	7.08	46	113700	54.04	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.08%
24) Chloroform-d	7.65	84	377513	27.94	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	111.76%
26) 1,2-Dichloroethane-d4	8.30	65	228803	27.58	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	110.32%
29) Benzene-d6	8.27	84	710824	28.01	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	112.04%
33) 1,2-Dichloropropane-d6	9.27	67	218630	27.90	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	111.60%
37) Toluene-d8	10.32	98	638798	27.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	108.92%
38) trans-1,3-Dichloropropene-	10.58	79	93699	25.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.28%
39) 2-Hexanone-d5	10.93	63	79579	53.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.74%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	194425	26.68	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	106.72%
61) 1,2-Dichlorobenzene-d4	13.86	152	230246	27.28	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	109.12%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	124927	19.151 ug/L	# 78
3) Chloromethane	2.21	50	149252	22.140 ug/L	100
5) Vinyl chloride	2.37	62	187123	21.640 ug/L	96
6) Bromomethane	2.78	94	120891	20.204 ug/L	99
8) Chloroethane	2.93	64	122799	21.637 ug/L	95
9) Trichlorofluoromethane	3.26	101	97222	18.328 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	171350	24.834 ug/L	97
12) 1,1-Dichloroethene	4.04	96	166075	25.249 ug/L	96
13) Acetone	4.12	43	95987	42.579 ug/L	99
14) Carbon disulfide	4.38	76	465369	22.763 ug/L	99
15) Methyl Acetate	4.67	43	122633	29.835 ug/L	98
16) Methylene chloride	4.92	84	208944	23.924 ug/L	96
17) Methyl tert-butyl Ether	5.42	73	272086	30.029 ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	182265	26.645 ug/L	97
19) 1,1-Dichloroethane	6.21	63	377083	28.725 ug/L	98
21) 2-Butanone	7.17	43	149015	51.974 ug/L	100
22) cis-1,2-Dichloroethene	7.16	96	208322	28.475 ug/L	98

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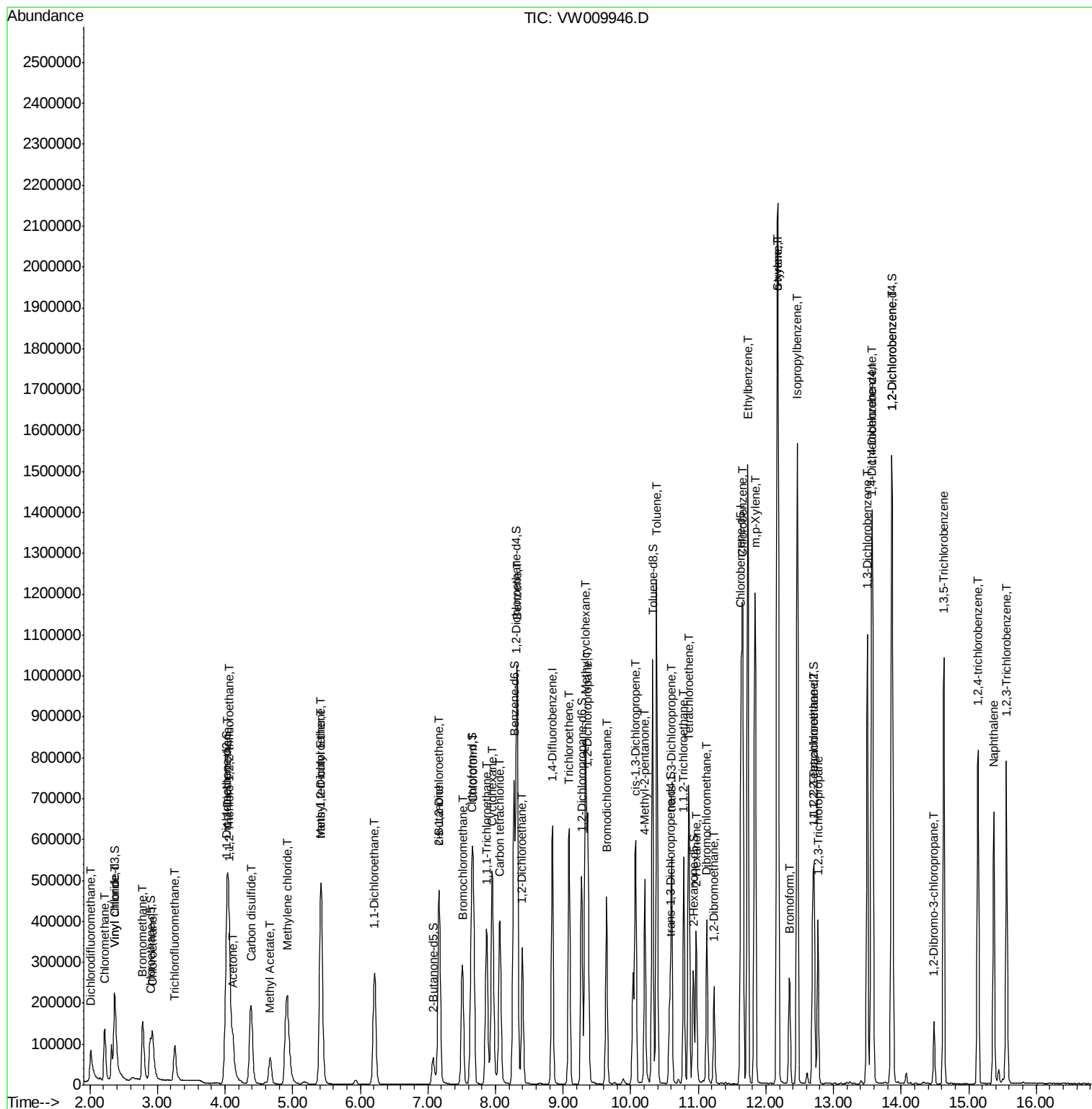
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	95757	28.529	ug/L	94
25) Chloroform	7.67	83	398197	28.959	ug/L	100
27) 1,2-Dichloroethane	8.40	62	297912	28.645	ug/L	98
30) Cyclohexane	7.96	56	289556	25.380	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	297011	27.087	ug/L	98
32) Carbon tetrachloride	8.07	117	282194	25.669	ug/L	99
34) Benzene	8.32	78	815095	28.027	ug/L	100
35) Trichloroethene	9.09	95	203743	26.770	ug/L	99
36) Methylcyclohexane	9.34	83	315259	25.195	ug/L	98
40) 1,2-Dichloropropane	9.37	63	216304	29.055	ug/L	99
41) Bromodichloromethane	9.65	83	292153	28.441	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	313360	27.170	ug/L	96
43) 4-Methyl-2-pentanone	10.21	43	336566	58.202	ug/L	100
44) Toluene	10.38	91	871393	28.285	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	274552	27.611	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	158048	28.284	ug/L	98
47) Tetrachloroethene	10.86	164	150180	25.054	ug/L	97
49) 2-Hexanone	10.97	43	236248	54.867	ug/L	98
50) Dibromochloromethane	11.13	129	191828	27.943	ug/L	99
51) 1,2-Dibromoethane	11.24	107	154599	27.604	ug/L	99
52) Chlorobenzene	11.66	112	546576	27.562	ug/L	100
53) Ethylbenzene	11.73	91	981608	27.971	ug/L	98
54) m,p-Xylene	11.84	106	363724	28.022	ug/L	99
55) o-xylene	12.17	106	357318	28.904	ug/L	95
56) Styrene	12.18	104	627985	29.276	ug/L	100
57) Isopropylbenzene	12.47	105	961298	28.398	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	212717	28.310	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	157031	28.075	ug/L	99
62) Bromoform	12.35	173	112935	26.700	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	411099	27.625	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	435083	27.417	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	400265	28.114	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.49	75	37231	26.865	ug/L	97
67) 1,3,5-Trichlorobenzene	14.63	180	297017	26.899	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	246426	27.790	ug/L	99
69) Naphthalene	15.37	128	537870	30.179	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	245306	29.572	ug/L	98

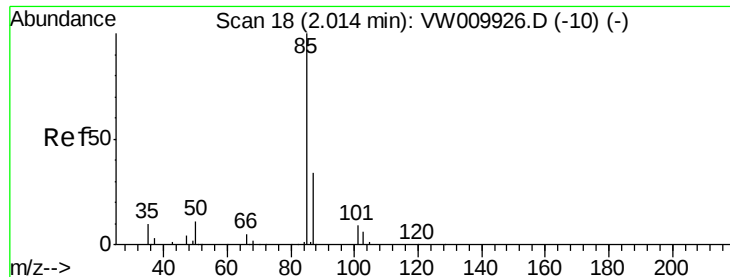
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 19.151 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

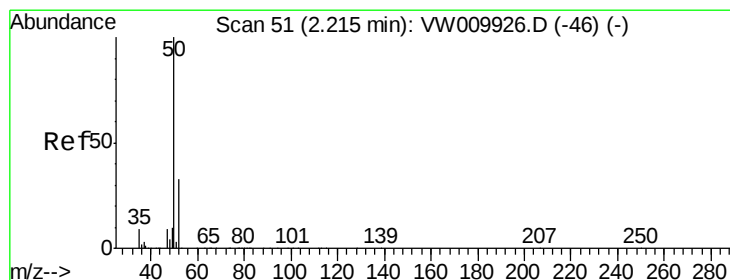
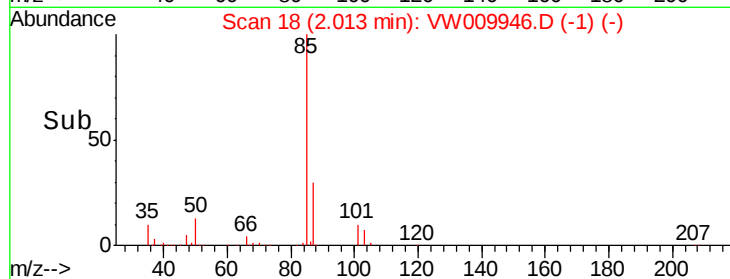
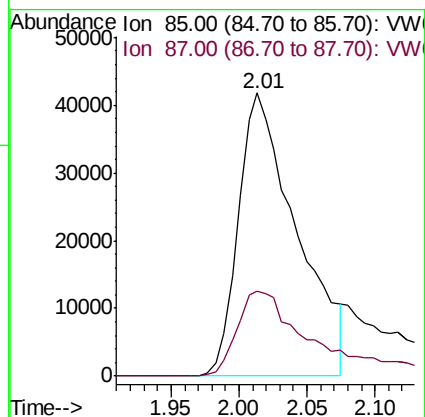
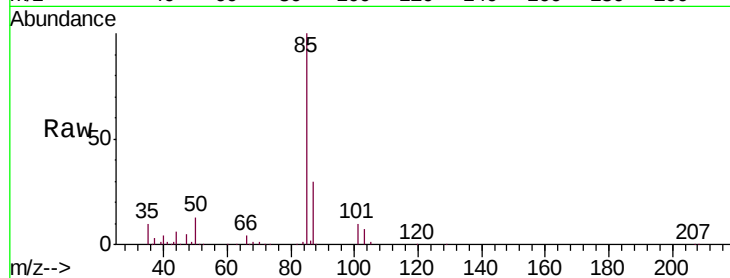
VSTD02529

Tgt Ion: 85 Resp: 124927

Ion Ratio Lower Upper

85 100

87 36.9 18.1 33.5#



#3

Chloromethane

Concen: 22.140 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW009946.D

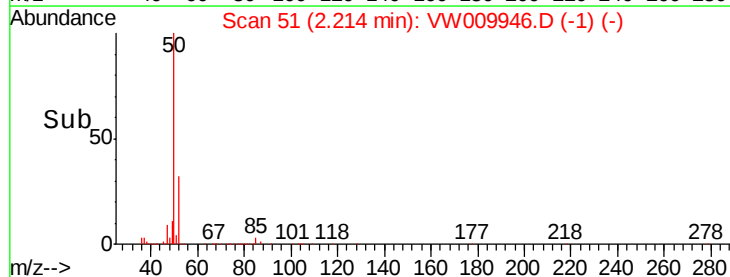
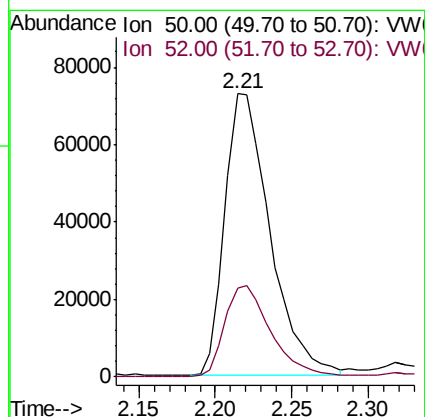
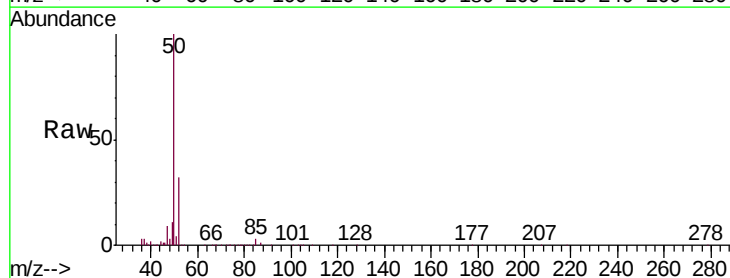
Acq: 12 Apr 2019 07:33

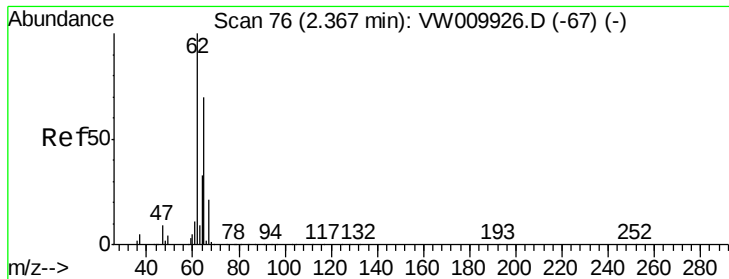
Tgt Ion: 50 Resp: 149252

Ion Ratio Lower Upper

50 100

52 31.6 22.3 41.3





#5

Vinyl chloride

Concen: 21.640 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

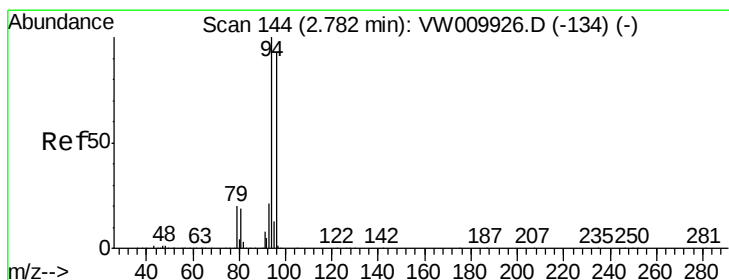
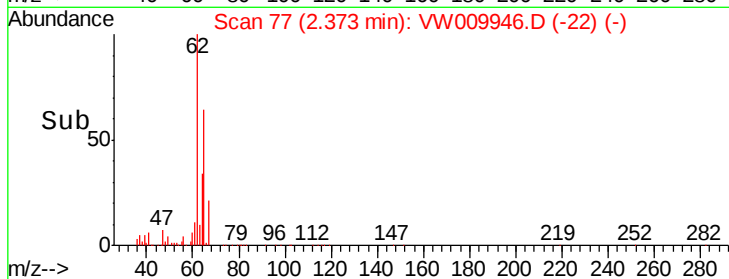
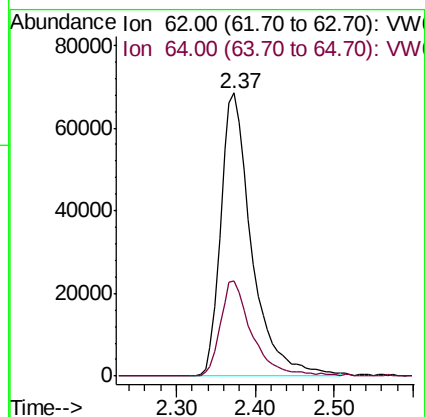
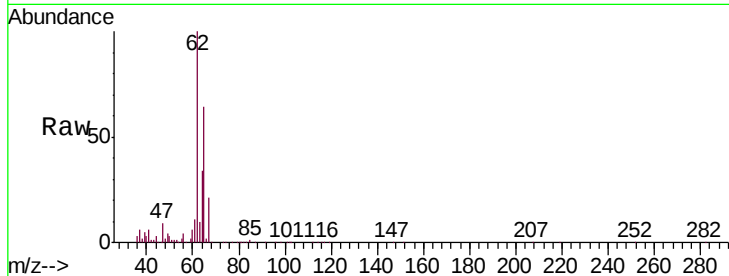
VSTD02529

Tgt Ion: 62 Resp: 187123

Ion Ratio Lower Upper

62 100

64 33.7 21.8 40.6



#6

Bromomethane

Concen: 20.204 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW009946.D

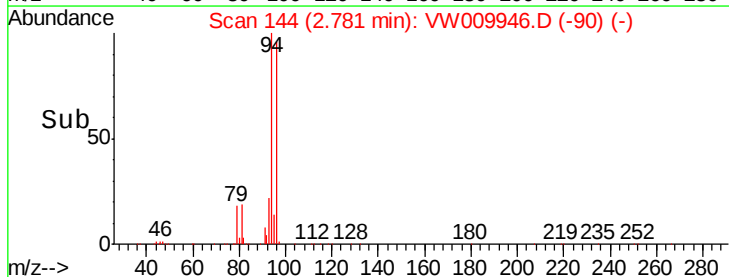
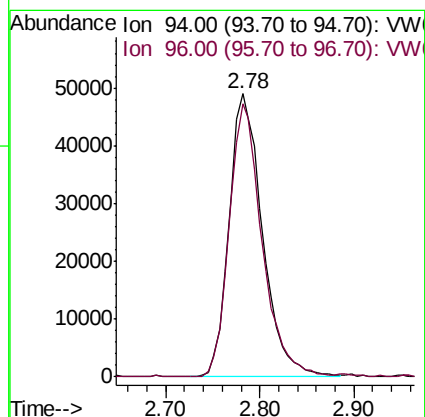
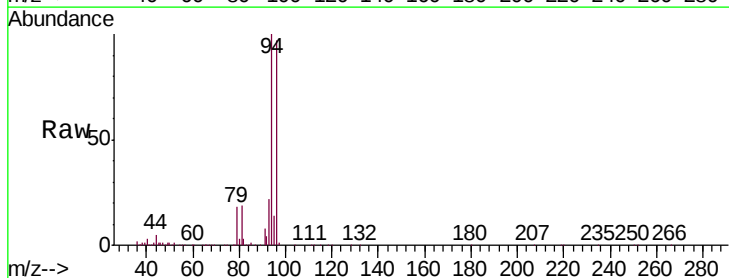
Acq: 12 Apr 2019 07:33

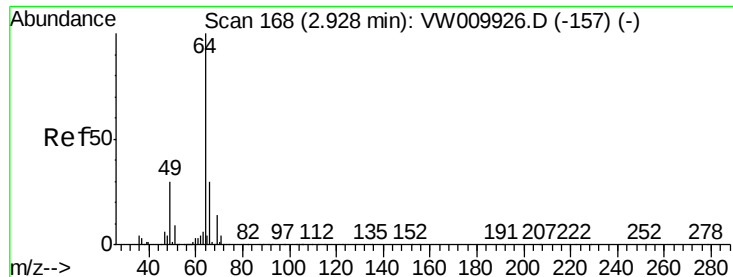
Tgt Ion: 94 Resp: 120891

Ion Ratio Lower Upper

94 100

96 94.7 9.3 177.3





#8

Chloroethane

Concen: 21.637 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

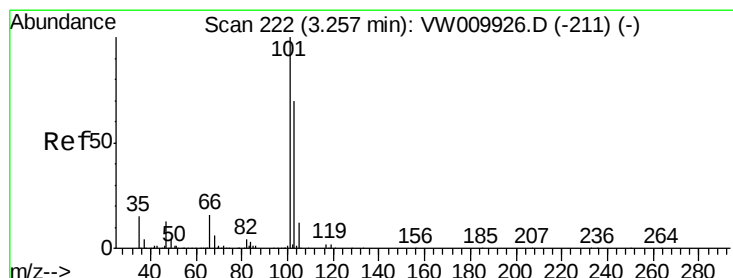
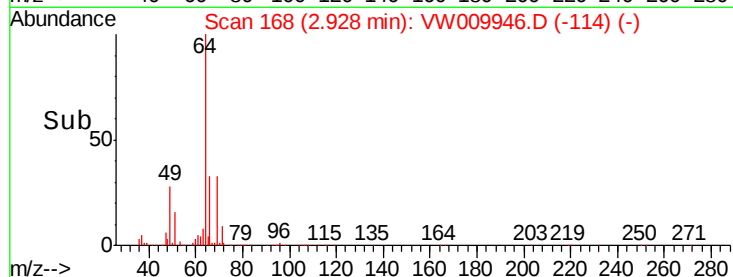
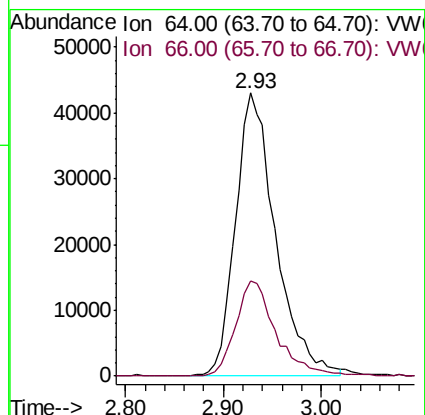
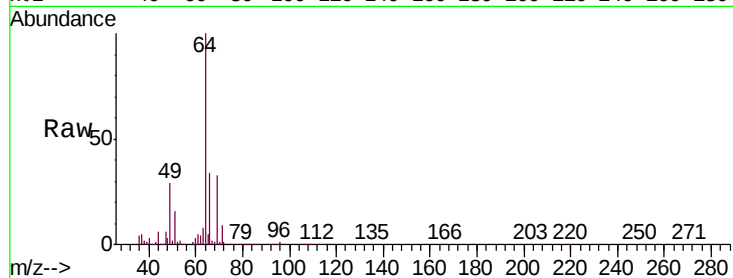
VSTD02529

Tgt Ion: 64 Resp: 122799

Ion Ratio Lower Upper

64 100

66 33.6 21.6 40.2



#9

Trichlorofluoromethane

Concen: 18.328 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW009946.D

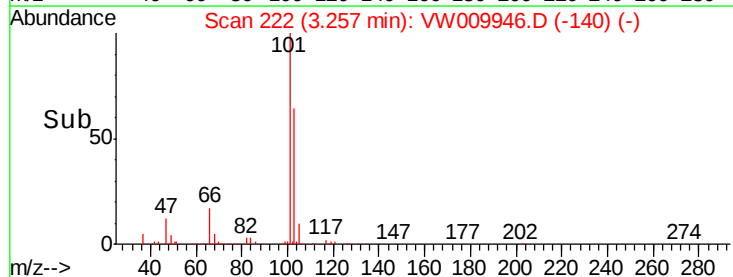
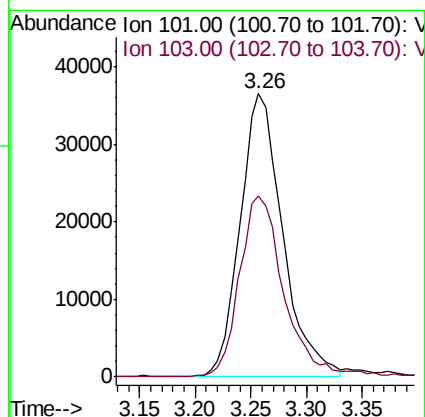
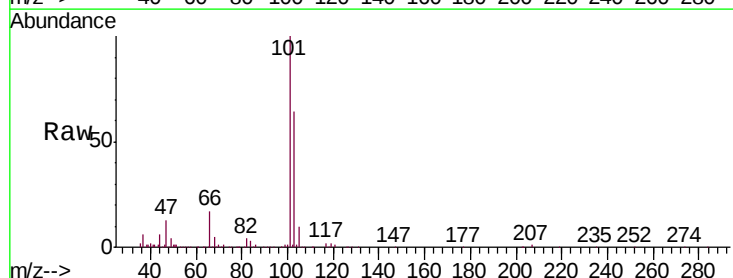
Acq: 12 Apr 2019 07:33

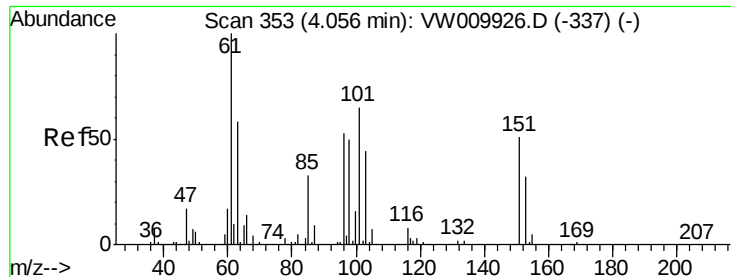
Tgt Ion: 101 Resp: 97222

Ion Ratio Lower Upper

101 100

103 65.4 45.1 83.7





#11

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

Concen: 24.834 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

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ClientSampled :

VSTD02529

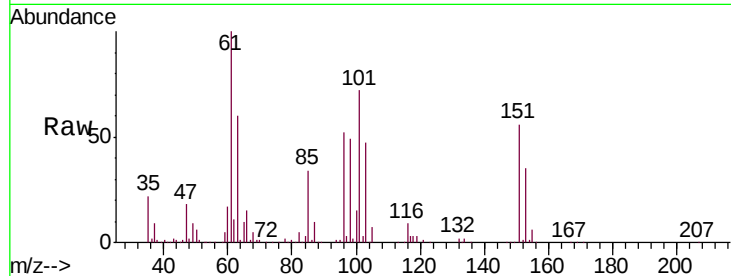
Tgt Ion:101 Resp: 171350

Ion Ratio Lower Upper

101 100

85 43.7 37.8 56.6

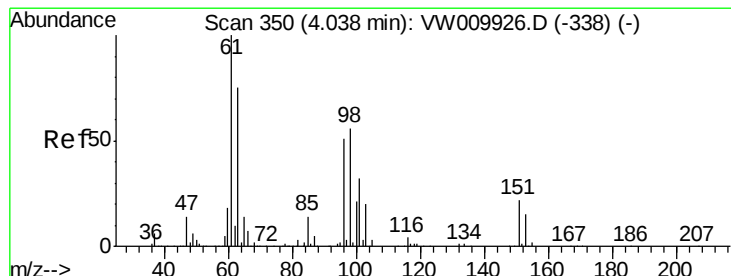
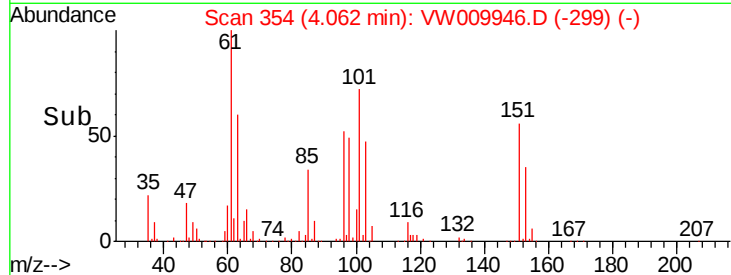
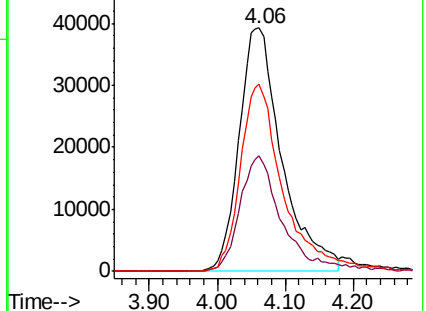
151 74.6 60.6 91.0



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: 25.249 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

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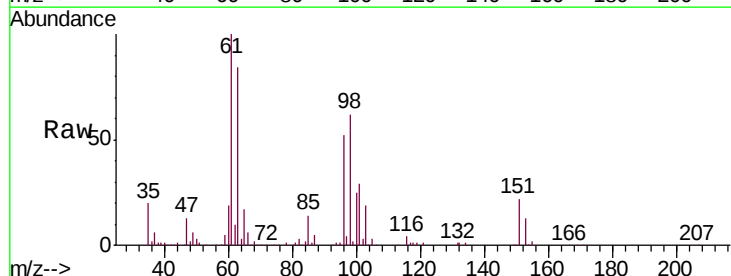
Tgt Ion: 96 Resp: 166075

Ion Ratio Lower Upper

96 100

61 191.2 138.8 257.8

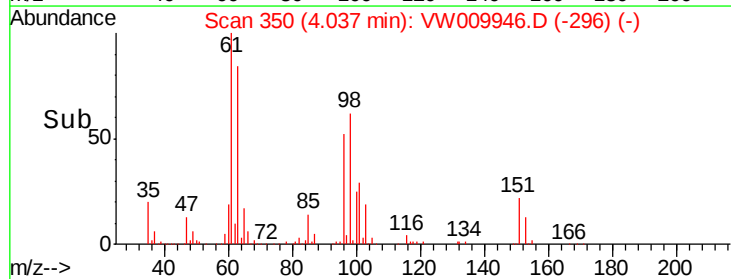
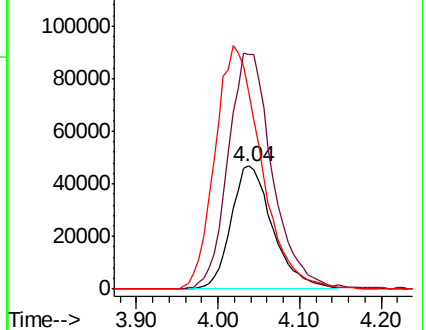
63 160.6 114.6 212.8

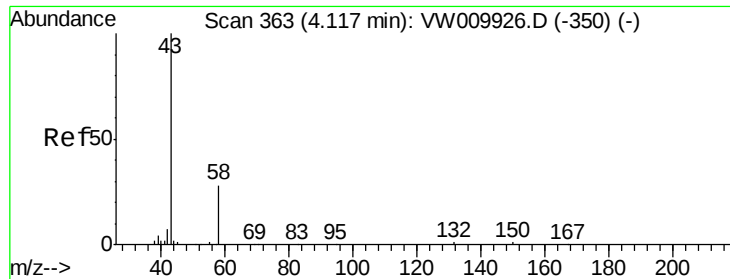


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 42.579 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

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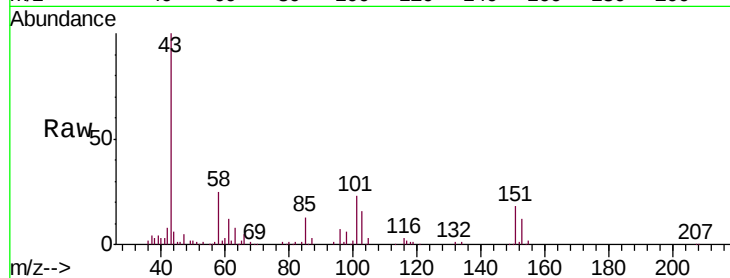
VSTD02529

Tgt Ion: 43 Resp: 95987

Ion Ratio Lower Upper

43 100

58 27.2 0.0 53.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

40000

30000

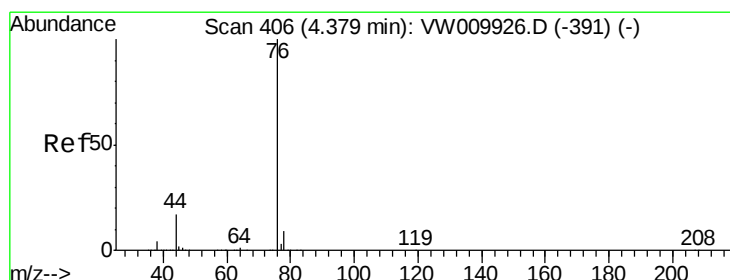
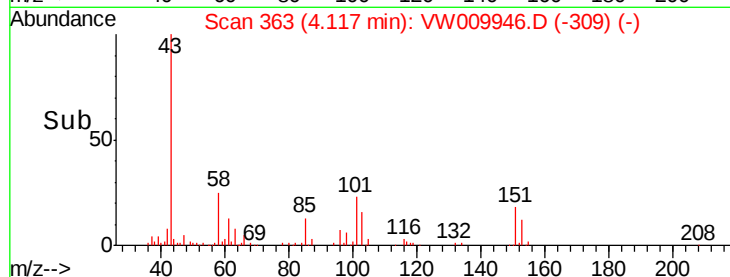
20000

10000

0

Time-->

4.00 4.05 4.10 4.15 4.20



#14

Carbon disulfide

Concen: 22.763 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW009946.D

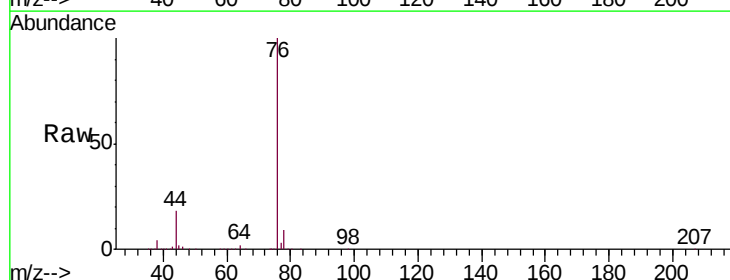
Acq: 12 Apr 2019 07:33

Tgt Ion: 76 Resp: 465369

Ion Ratio Lower Upper

76 100

78 8.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.38

150000

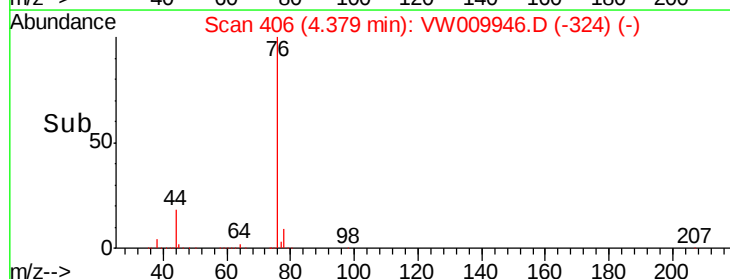
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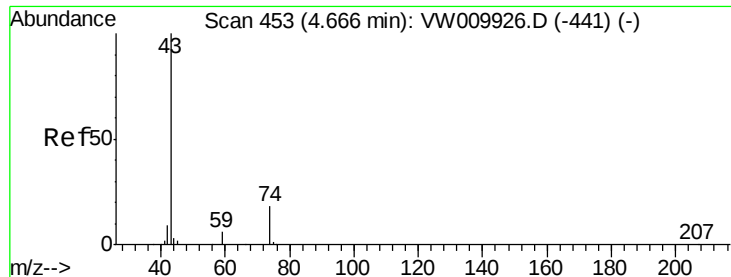
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Time-->

4.20 4.30 4.40 4.50

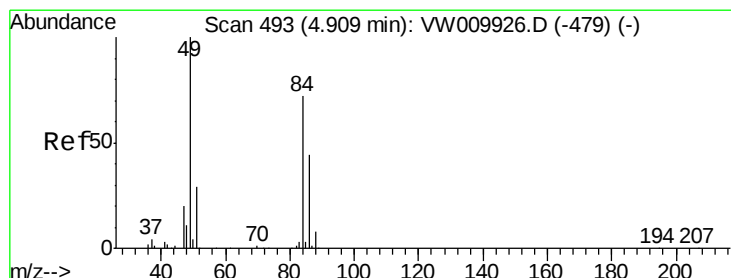
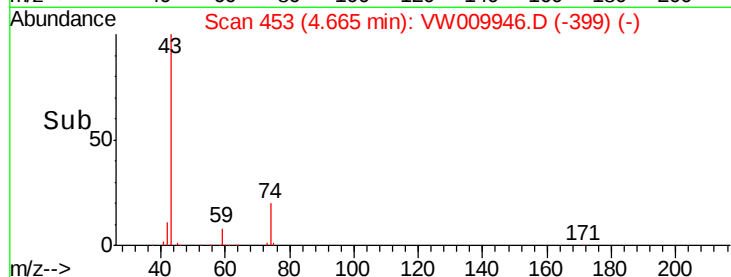
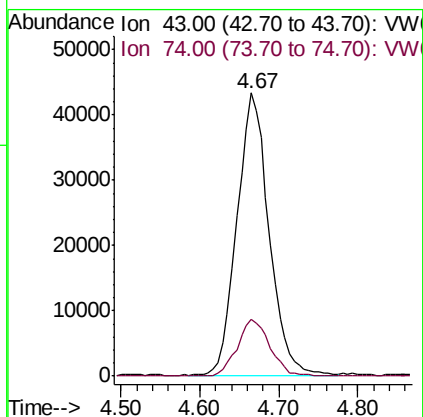
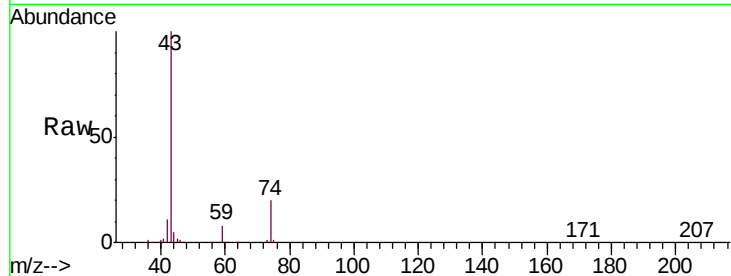




#15
Methyl Acetate
Concen: 29.835 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW009946.D
Acq: 12 Apr 2019 07:33

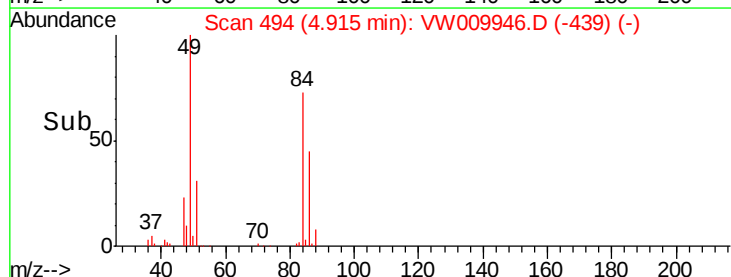
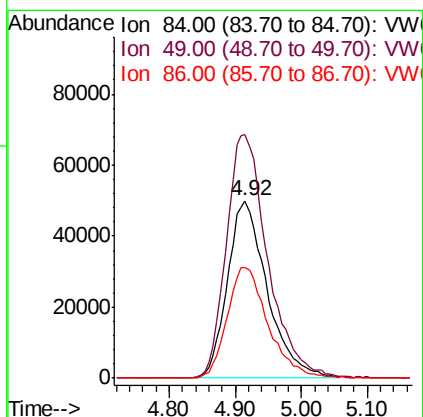
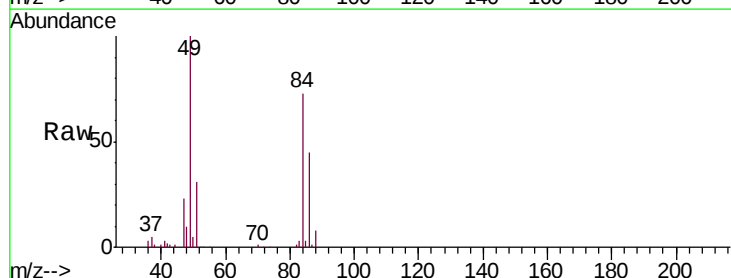
Instrument :
MSVOA_W
ClientSampleId :
VSTD02529

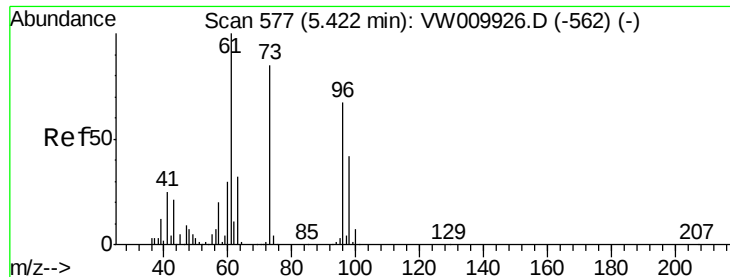
Tgt Ion: 43 Resp: 122633
Ion Ratio Lower Upper
43 100
74 20.4 17.2 25.8



#16
Methylene chloride
Concen: 23.924 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW009946.D
Acq: 12 Apr 2019 07:33

Tgt Ion: 84 Resp: 208944
Ion Ratio Lower Upper
84 100
49 137.2 98.3 182.5
86 61.9 46.4 86.2

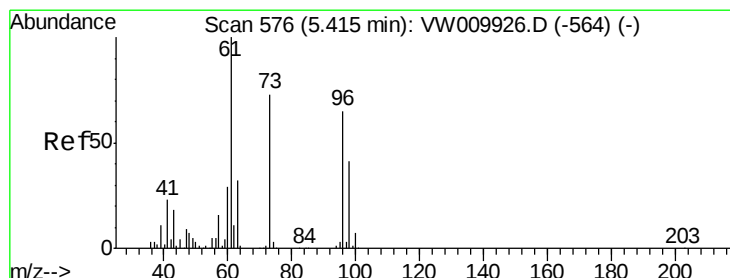
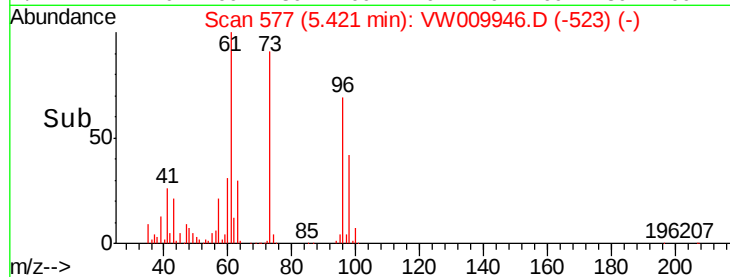
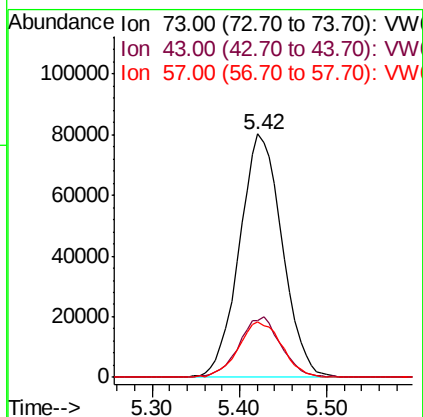
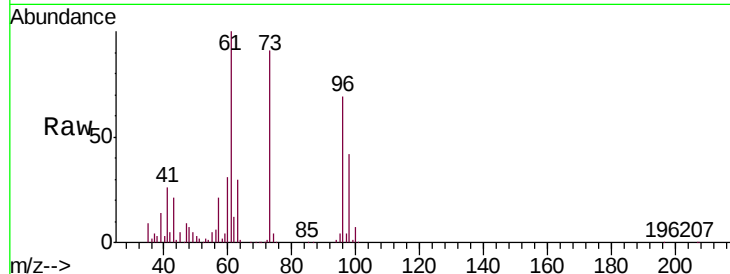




#17
Methyl tert-butyl Ether
Concen: 30.029 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW009946.D
Acq: 12 Apr 2019 07:33

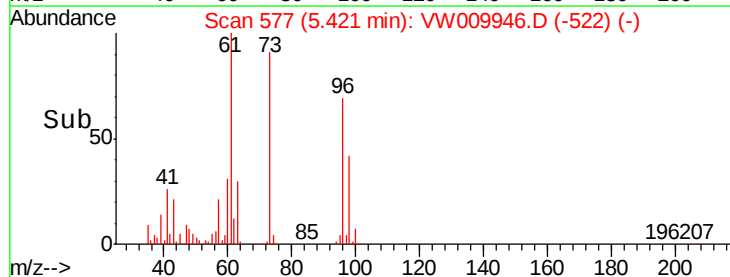
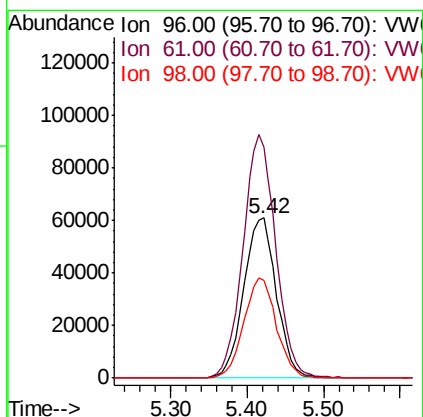
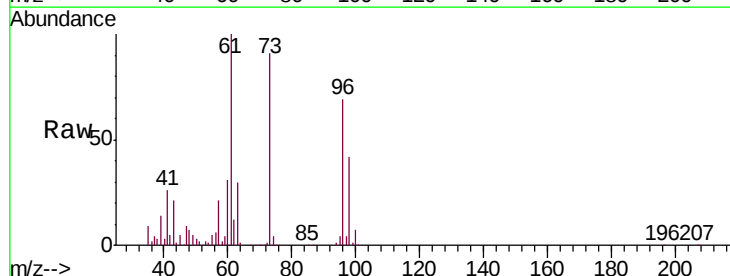
Instrument :
MSVOA_W
ClientSampleId :
VSTD02529

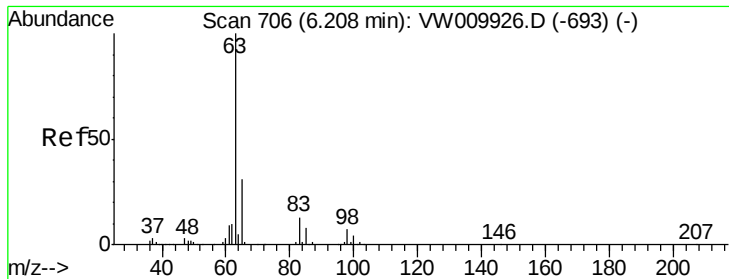
Tgt Ion: 73 Resp: 272086
Ion Ratio Lower Upper
73 100
43 24.4 20.2 30.2
57 23.2 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 26.645 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW009946.D
Acq: 12 Apr 2019 07:33

Tgt Ion: 96 Resp: 182265
Ion Ratio Lower Upper
96 100
61 144.2 103.7 192.5
98 61.0 43.7 81.1





#19

1,1-Dichloroethane

Concen: 28.725 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02529

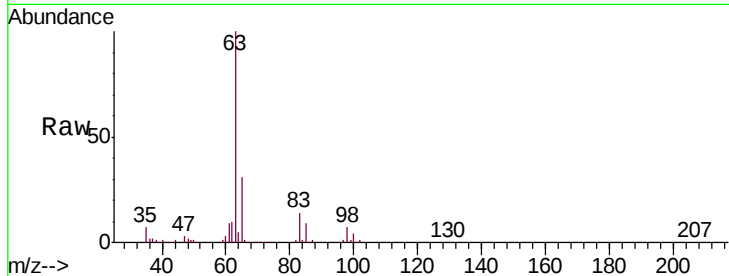
Tgt Ion: 63 Resp: 377083

Ion Ratio Lower Upper

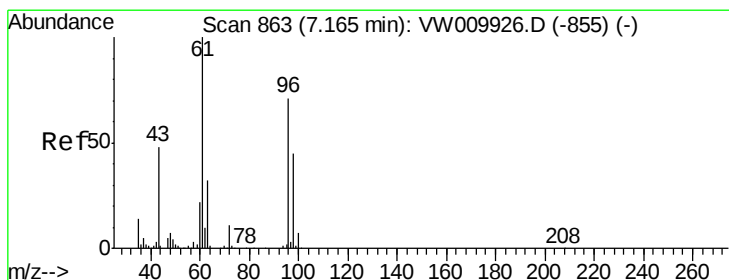
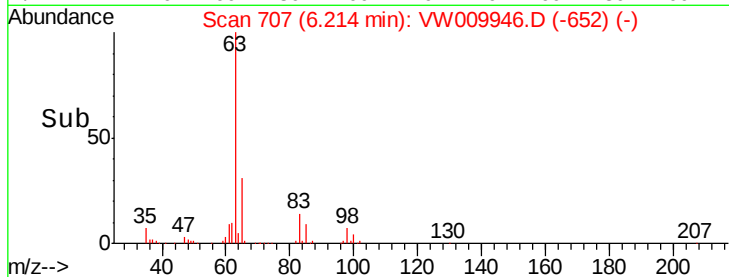
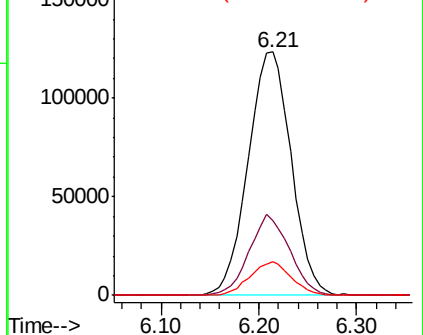
63 100

65 30.9 22.6 42.0

83 13.7 9.8 18.2



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: 51.974 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW009946.D

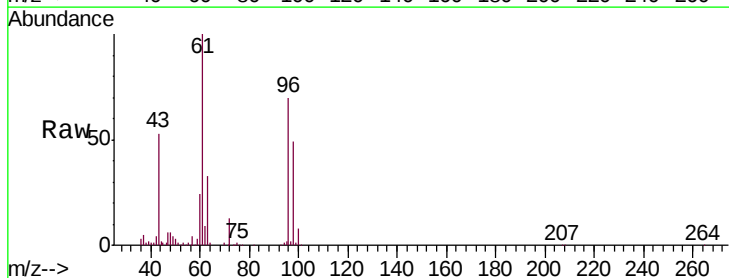
Acq: 12 Apr 2019 07:33

Tgt Ion: 43 Resp: 149015

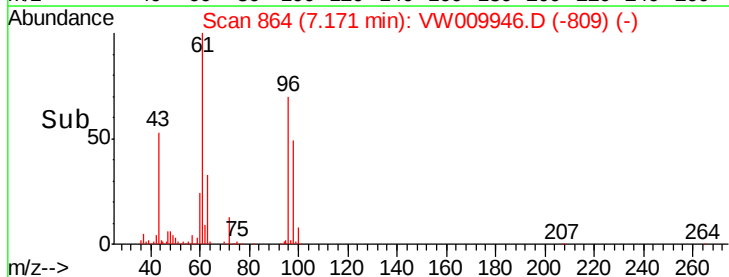
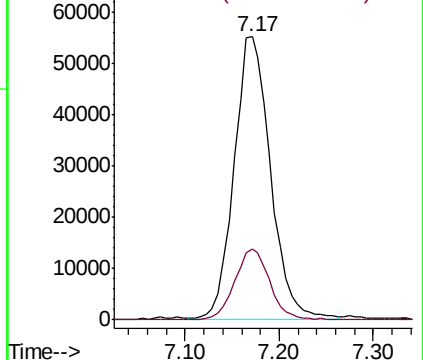
Ion Ratio Lower Upper

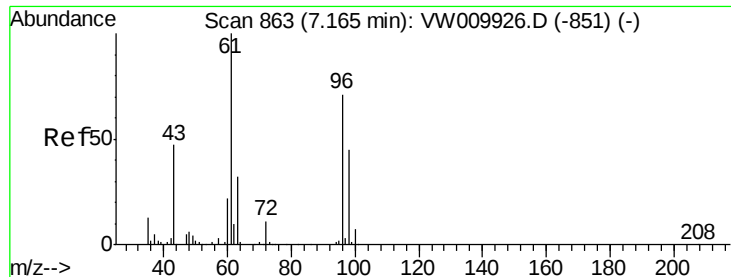
43 100

72 24.2 12.0 36.1



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



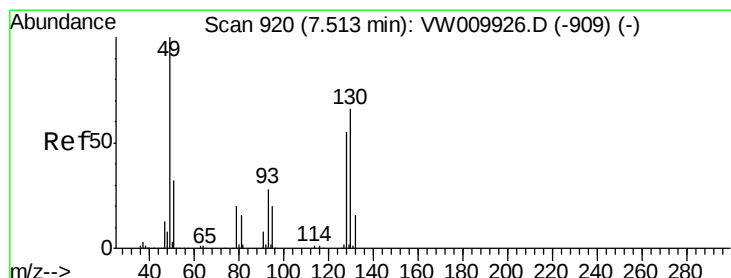
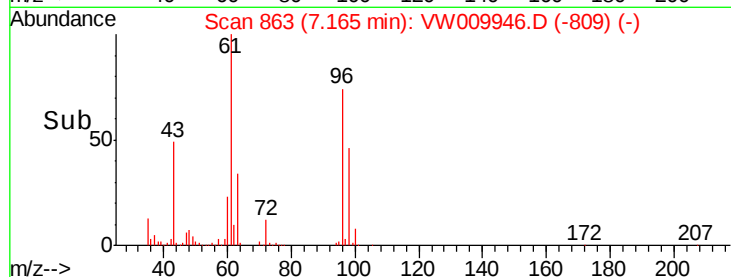
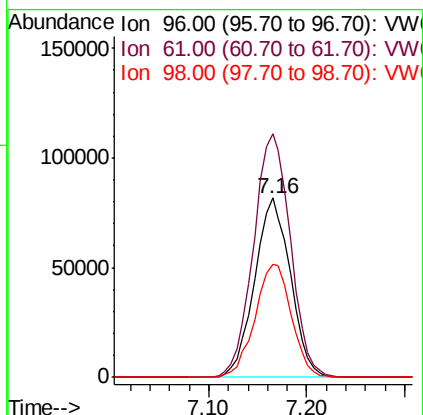
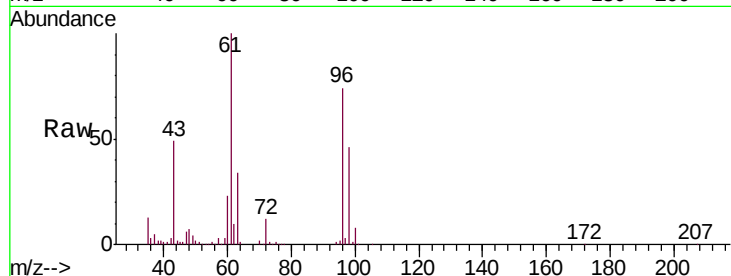


#22

cis-1,2-Dichloroethene
 Concen: 28.475 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02529

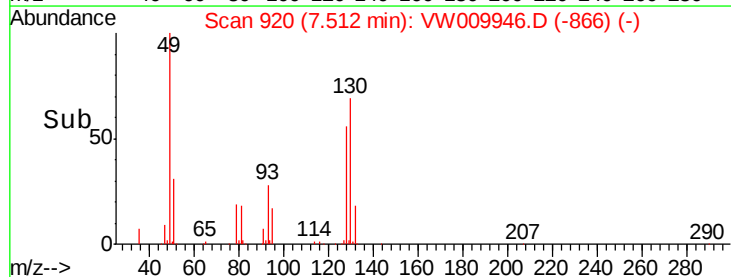
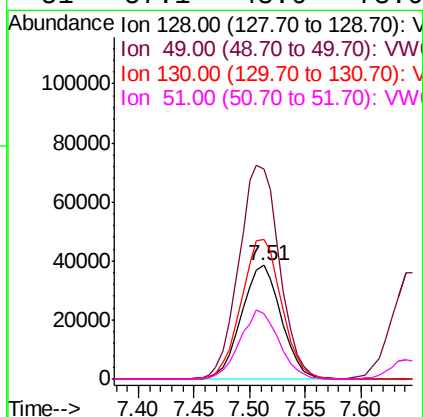
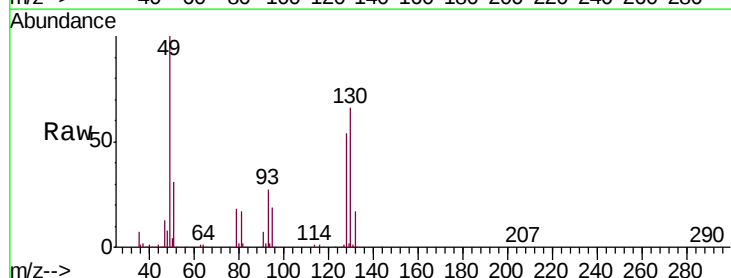
Tgt Ion: 96 Resp: 208322
 Ion Ratio Lower Upper
 96 100
 61 136.0 96.8 179.8
 98 62.8 43.5 80.9

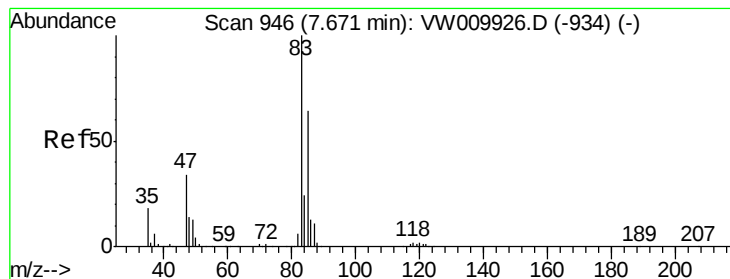


#23

Bromochloromethane
 Concen: 28.529 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

Tgt Ion: 128 Resp: 95757
 Ion Ratio Lower Upper
 128 100
 49 185.5 132.6 246.2
 130 123.3 95.5 177.4
 51 57.1 48.6 73.0





#25

Chloroform

Concen: 28.959 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

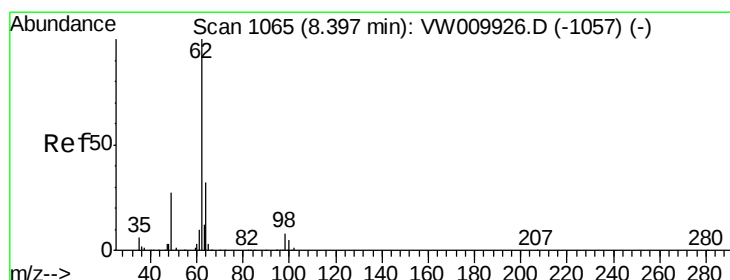
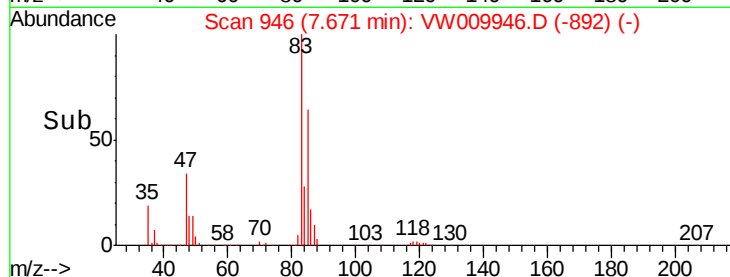
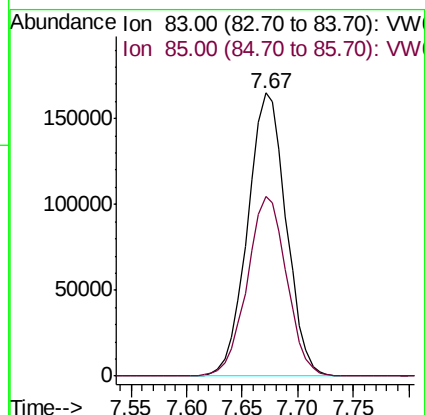
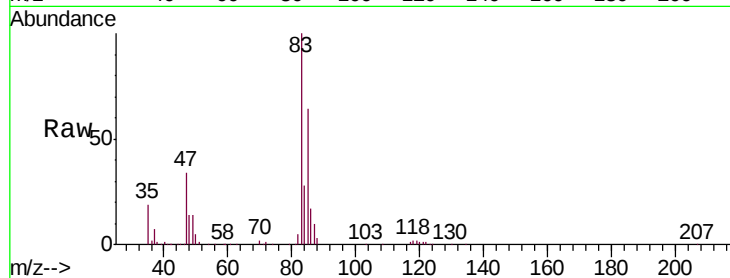
VSTD02529

Tgt Ion: 83 Resp: 398197

Ion Ratio Lower Upper

83 100

85 64.9 45.6 84.8



#27

1,2-Dichloroethane

Concen: 28.645 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW009946.D

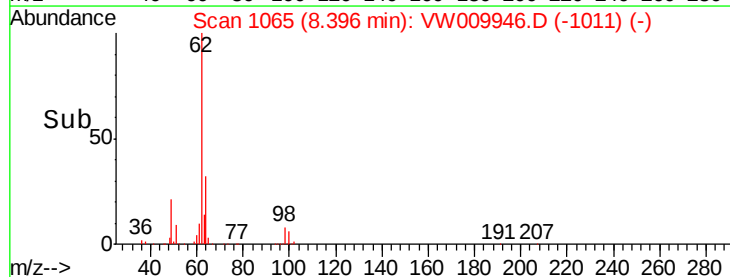
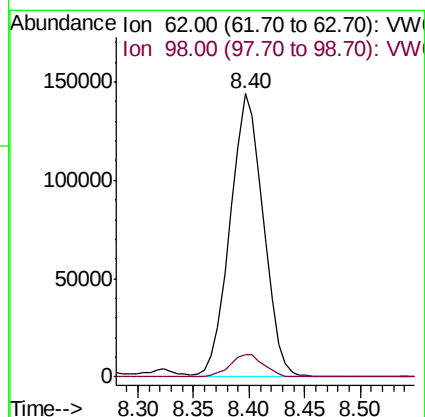
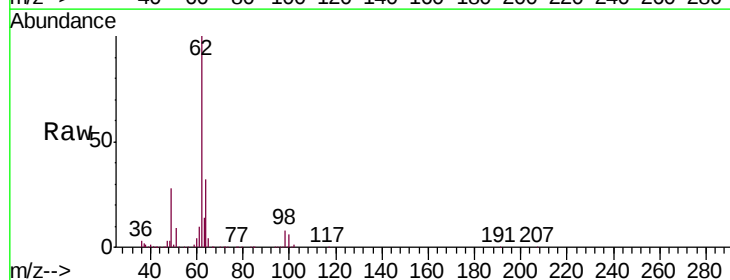
Acq: 12 Apr 2019 07:33

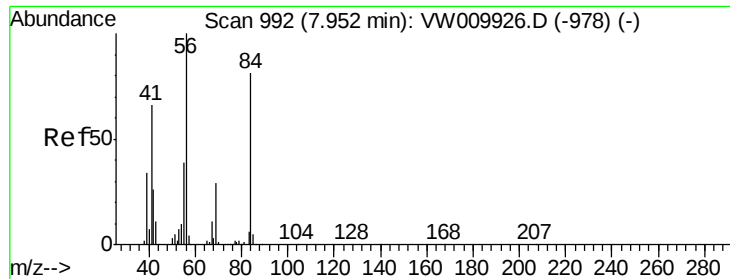
Tgt Ion: 62 Resp: 297912

Ion Ratio Lower Upper

62 100

98 8.0 7.0 10.4

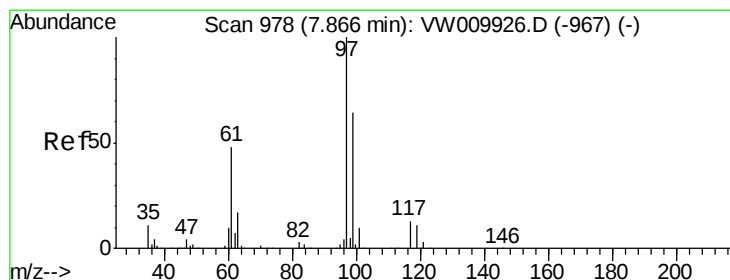
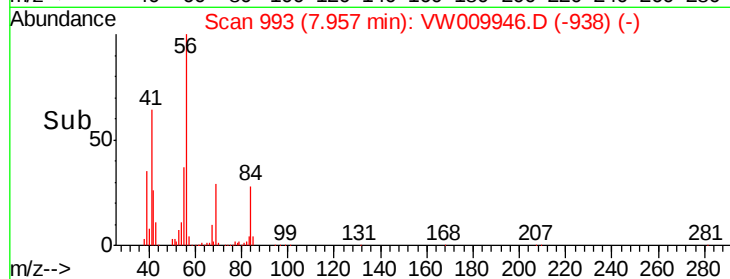
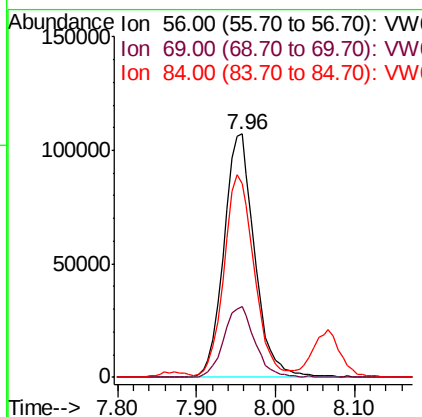
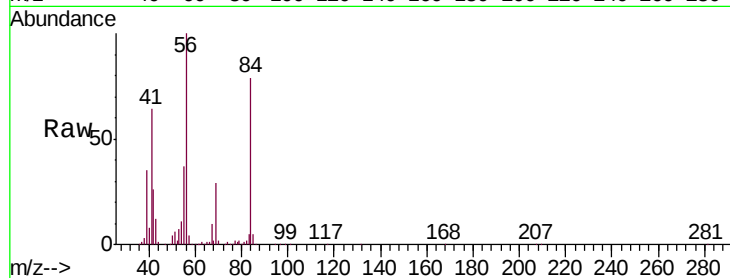




#30
Cyclohexane
Concen: 25.380 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW009946.D
Acq: 12 Apr 2019 07:33

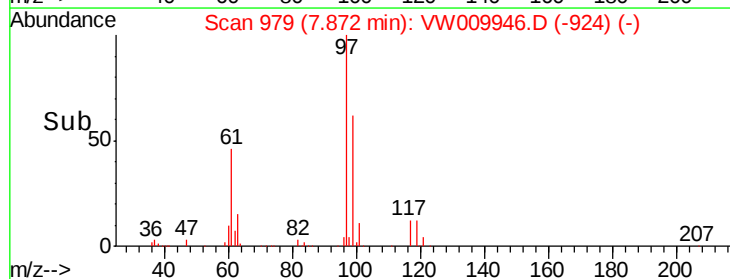
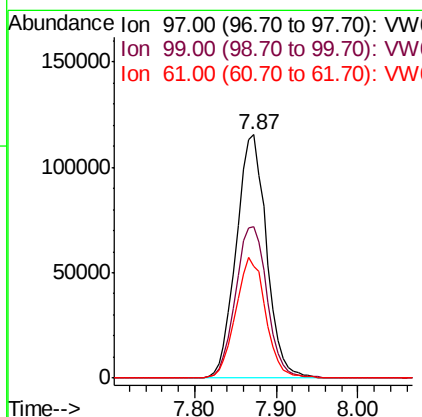
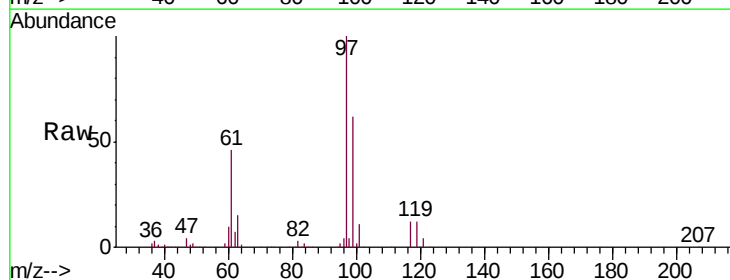
Instrument :
MSVOA_W
ClientSampleId :
VSTD02529

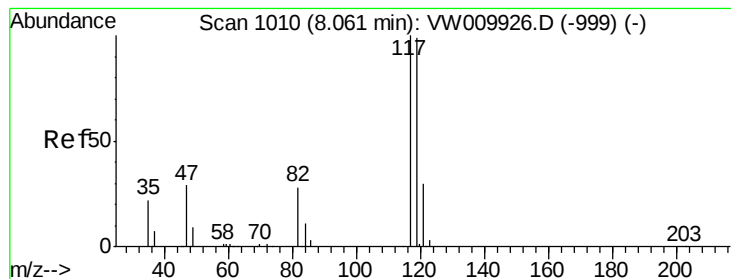
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.5	23.4	35.2
84	81.9	67.7	101.5



#31
1,1,1-Trichloroethane
Concen: 27.087 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW009946.D
Acq: 12 Apr 2019 07:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	50.8	76.2
61	49.2	38.6	57.8





#32

Carbon tetrachloride

Concen: 25.669 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

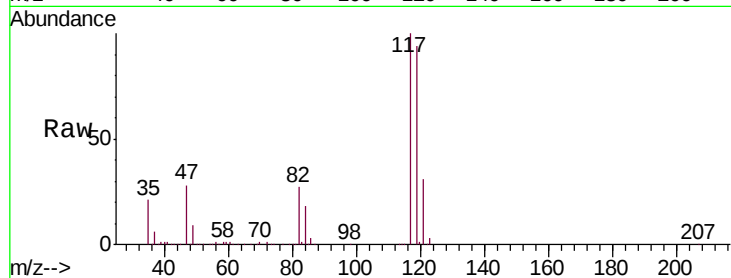
VSTD02529

Tgt Ion:117 Resp: 282194

Ion Ratio Lower Upper

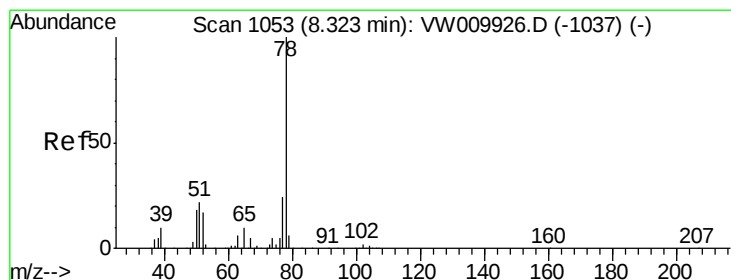
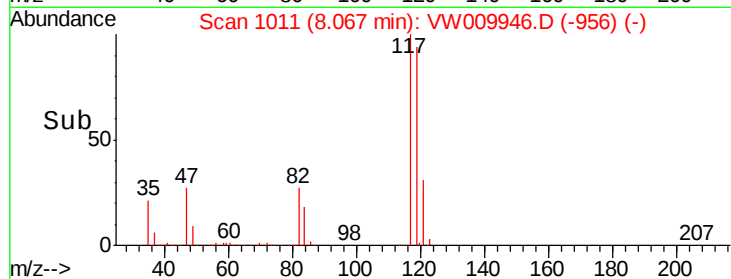
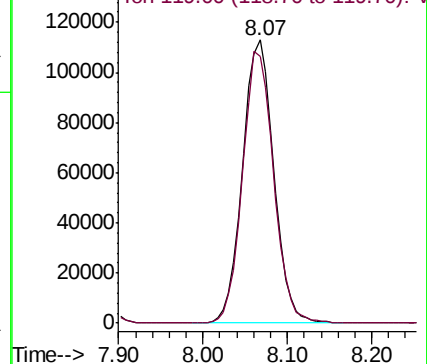
117 100

119 95.5 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 28.027 ug/L

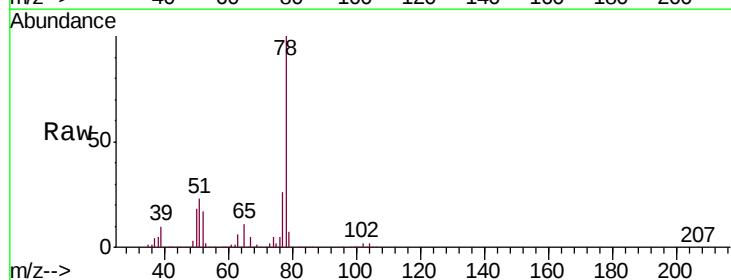
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

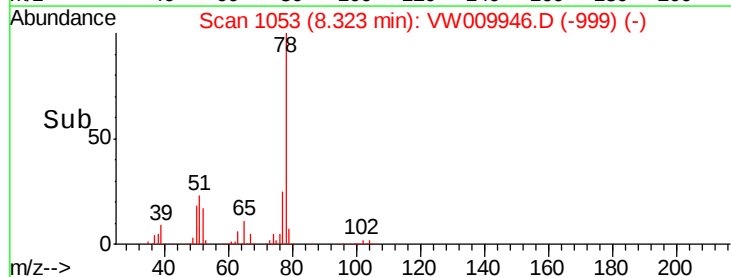
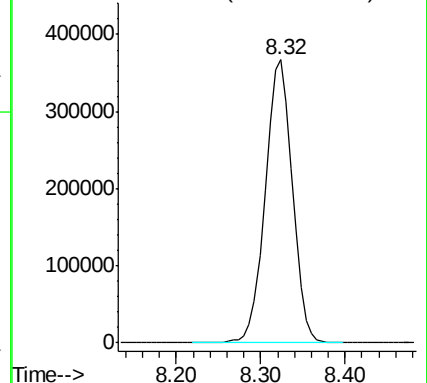
Lab File: VW009946.D

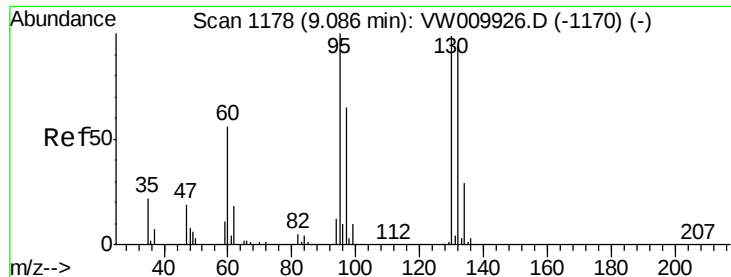
Acq: 12 Apr 2019 07:33

Tgt Ion: 78 Resp: 815095



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 26.770 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02529

Tgt Ion: 95 Resp: 203743

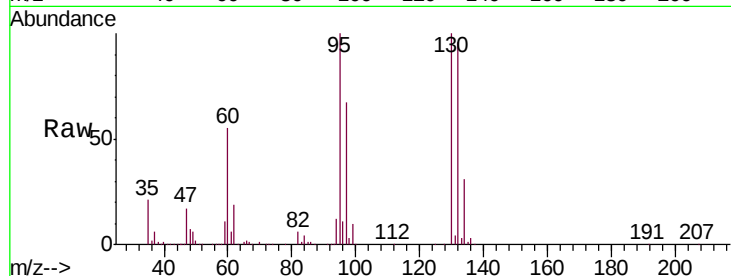
Ion Ratio Lower Upper

95 100

97 64.6 44.9 83.5

132 94.2 67.1 124.7

130 97.3 69.2 128.6



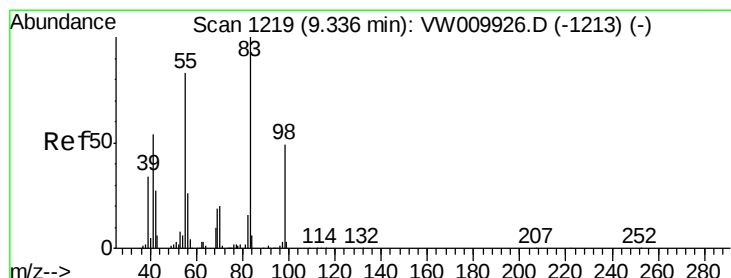
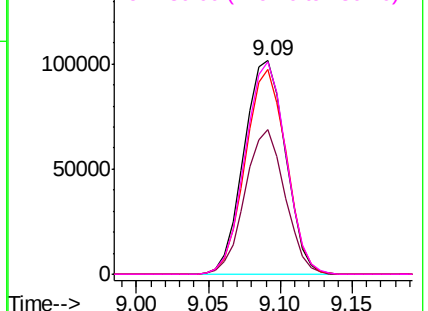
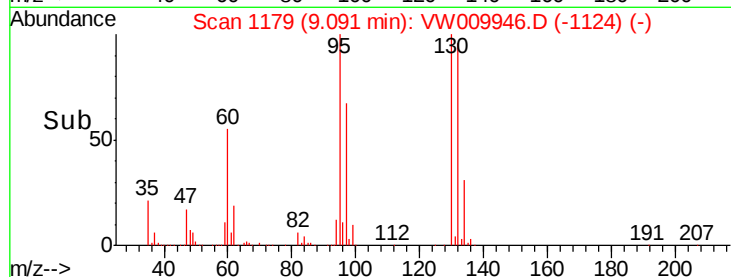
Abundance

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: 25.195 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

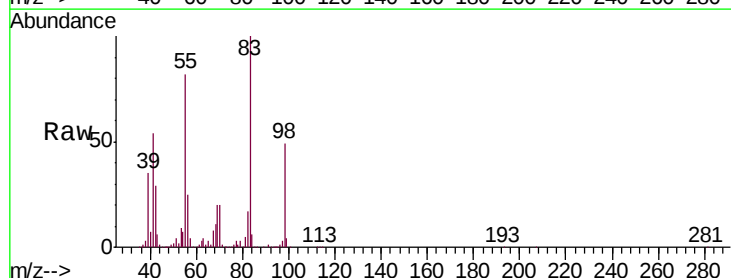
Tgt Ion: 83 Resp: 315259

Ion Ratio Lower Upper

83 100

55 85.5 66.3 99.5

98 49.2 39.4 59.0

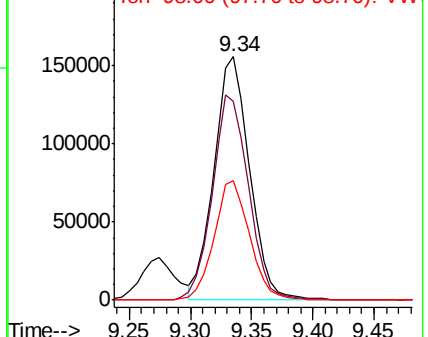
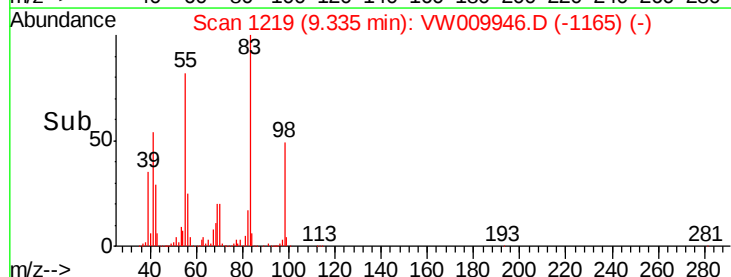


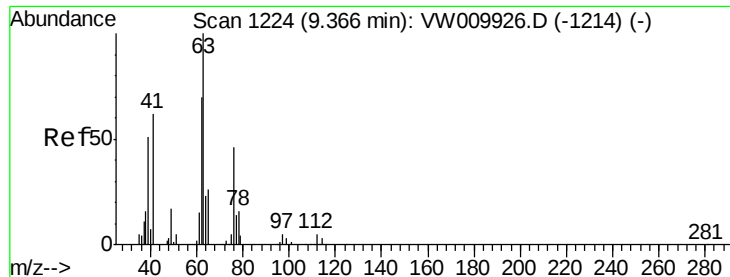
Abundance

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

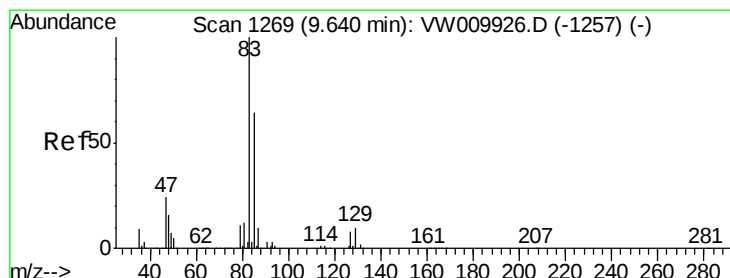
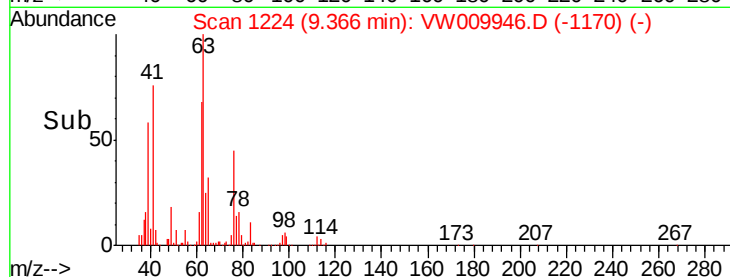
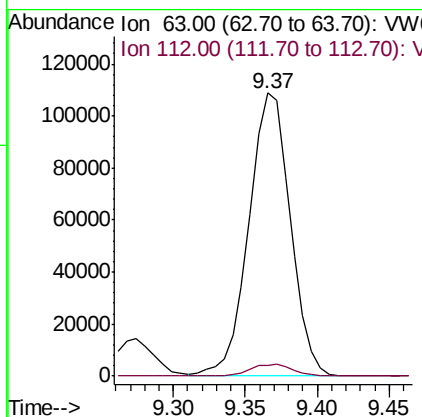
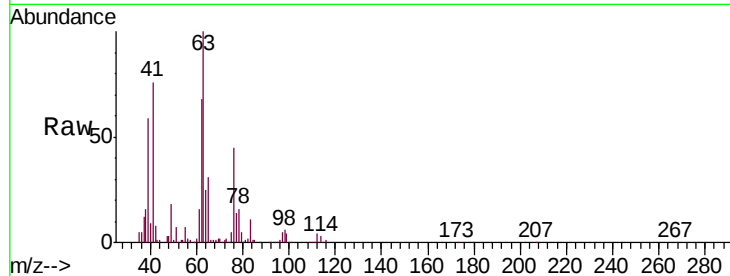




#40
 1,2-Dichloropropane
 Concen: 29.055 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

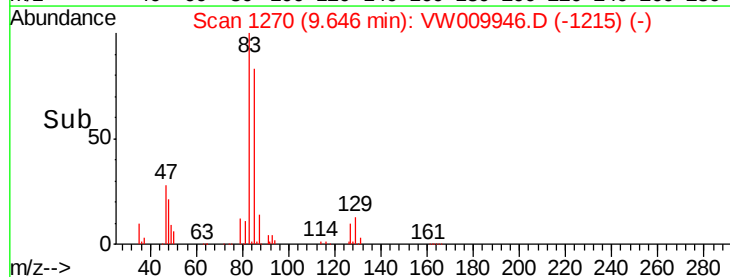
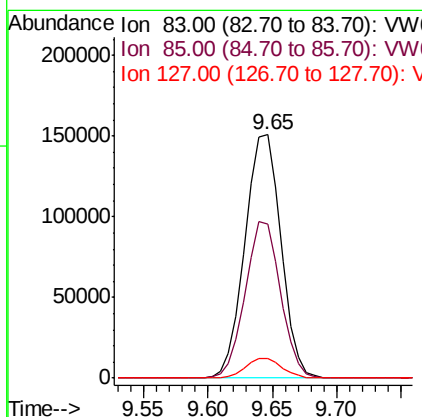
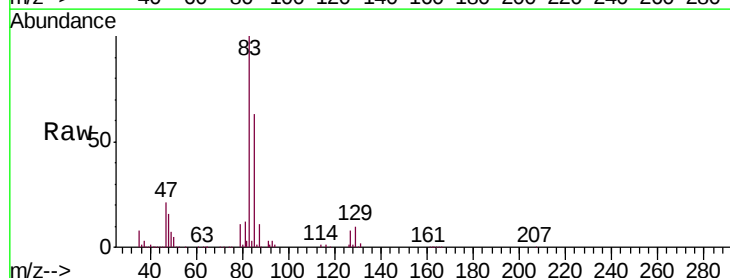
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02529

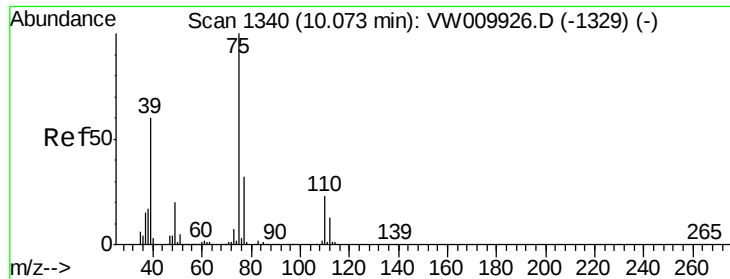
Tgt Ion: 63 Resp: 216304
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.8 5.8



#41
 Bromodichloromethane
 Concen: 28.441 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.01 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

Tgt Ion: 83 Resp: 292153
 Ion Ratio Lower Upper
 83 100
 85 63.1 45.0 83.6
 127 7.9 6.7 10.1

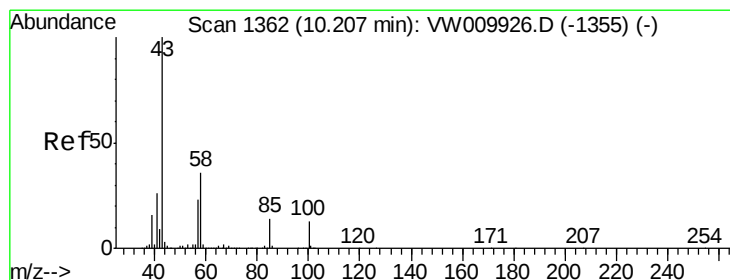
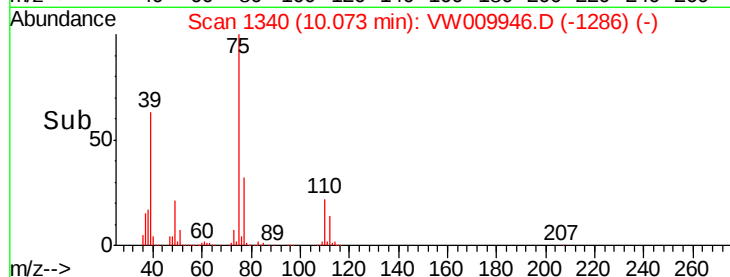
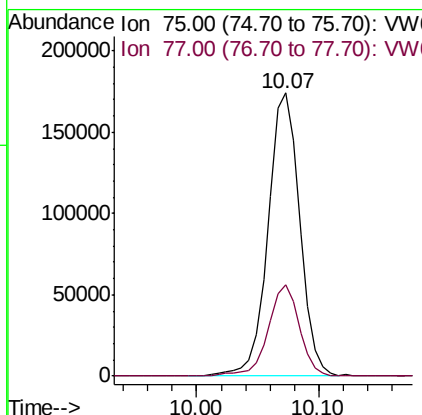
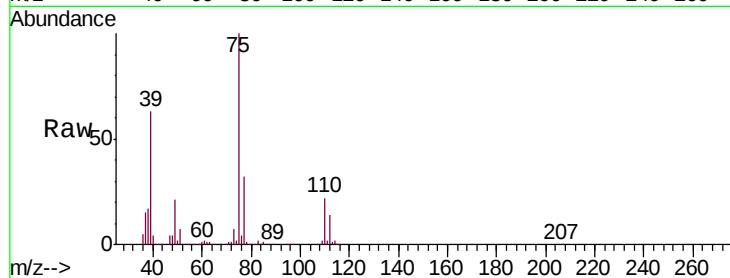




#42
 cis-1,3-Dichloropropene
 Concen: 27.170 ug/L
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

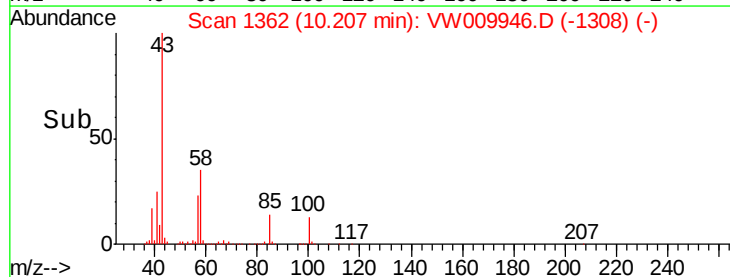
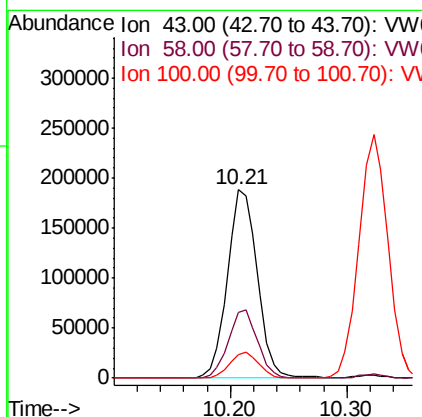
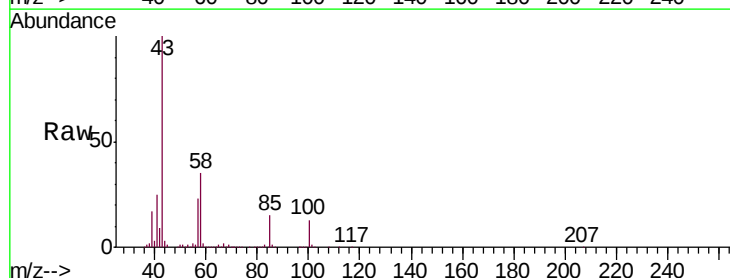
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02529

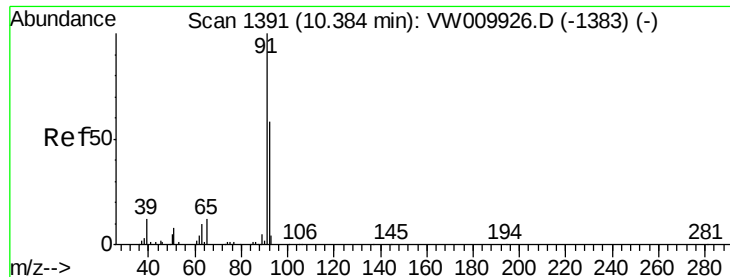
Tgt Ion: 75 Resp: 313360
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.0 39.0



#43
 4-Methyl-2-pentanone
 Concen: 58.202 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

Tgt Ion: 43 Resp: 336566
 Ion Ratio Lower Upper
 43 100
 58 35.4 28.2 42.4
 100 13.5 10.9 16.3





#44

Toluene

Concen: 28.285 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampled :

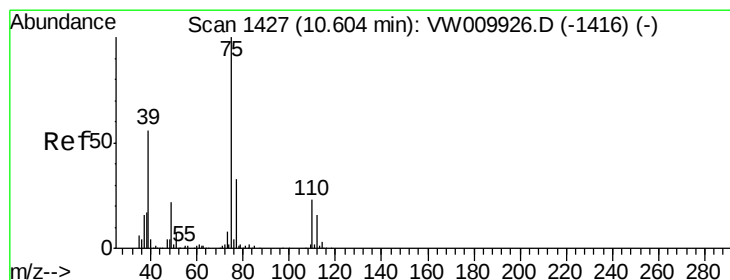
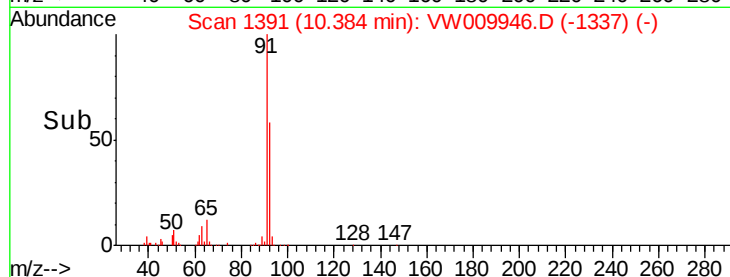
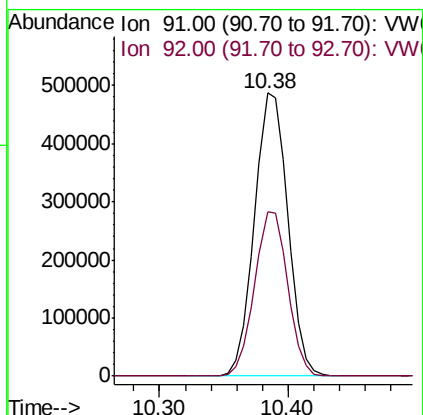
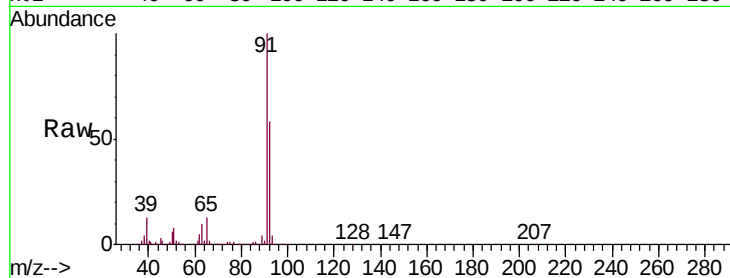
VSTD02529

Tgt Ion: 91 Resp: 871393

Ion Ratio Lower Upper

91 100

92 58.0 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 27.611 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW009946.D

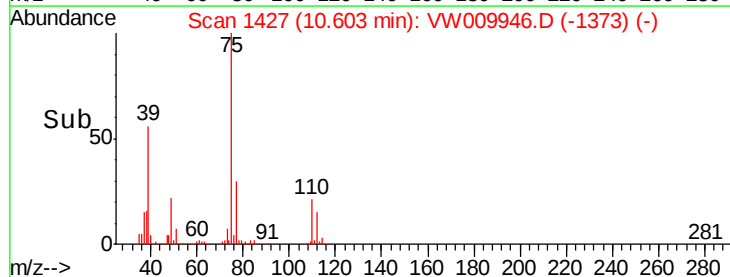
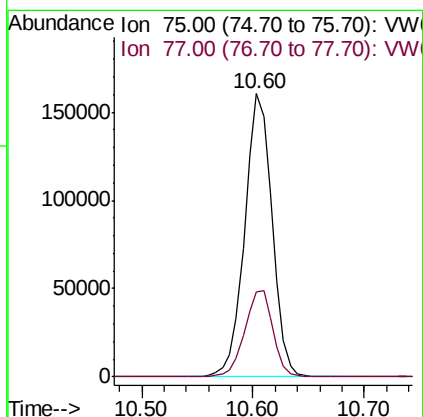
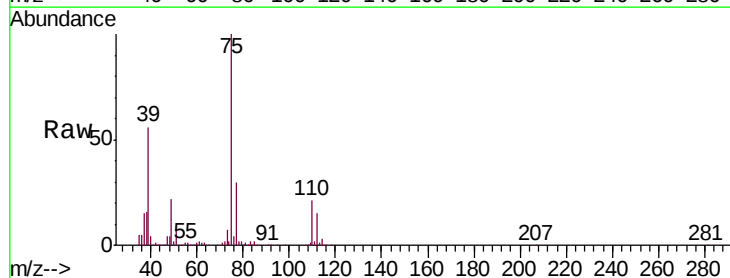
Acq: 12 Apr 2019 07:33

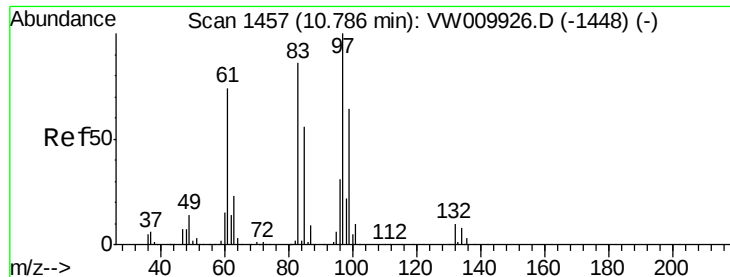
Tgt Ion: 75 Resp: 274552

Ion Ratio Lower Upper

75 100

77 30.1 21.1 39.3

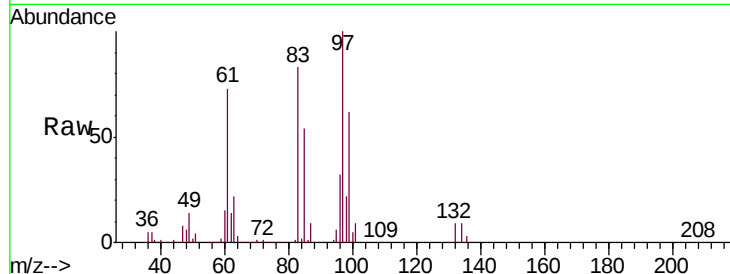




#46
1,1,2-Trichloroethane
Concen: 28.284 ug/L
RT: 10.79 min Scan# 1457
Delta R.T. -0.00 min
Lab File: VW009946.D
Acq: 12 Apr 2019 07:33

Instrument :
MSVOA_W
ClientSampleId :
VSTD02529

Tgt Ion:	97	Resp:	158048
Ion	Ratio	Lower	Upper
97	100		
83	82.8	57.3	106.3
85	53.9	38.1	70.7
99	62.2	40.9	75.9



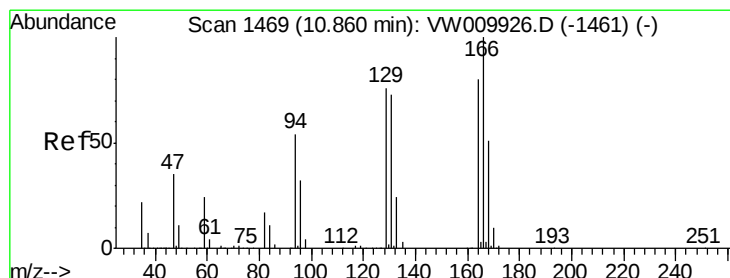
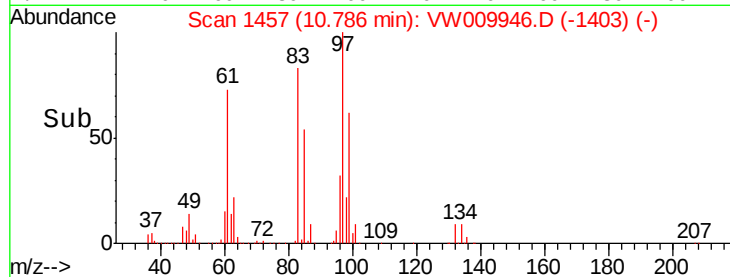
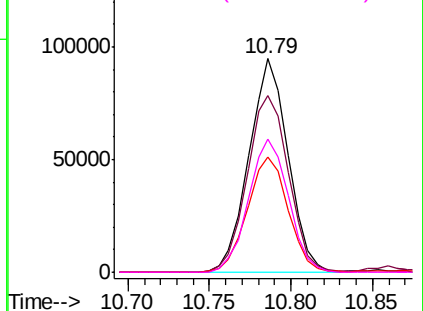
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

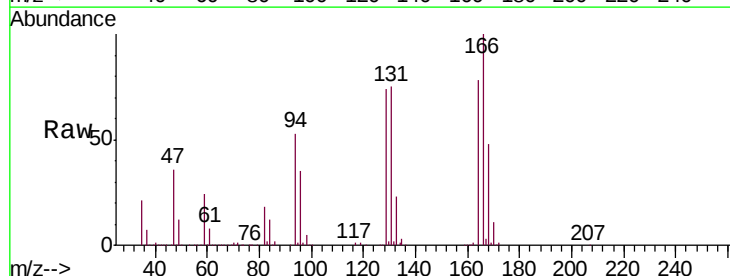
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47
Tetrachloroethene
Concen: 25.054 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW009946.D
Acq: 12 Apr 2019 07:33

Tgt Ion:	164	Resp:	150180
Ion	Ratio	Lower	Upper
164	100		
129	94.7	68.9	127.9
131	95.4	63.1	117.1
166	127.7	88.5	164.4



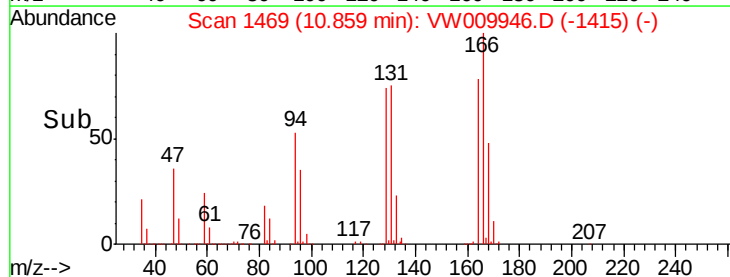
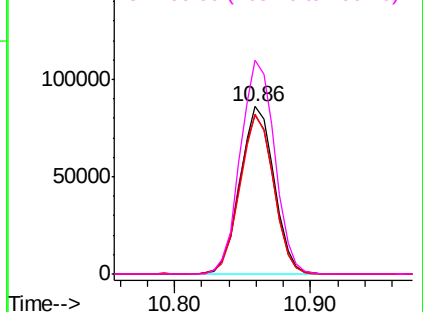
Abundance

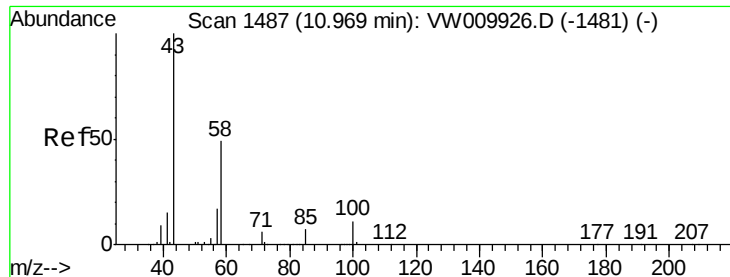
Ion 164.00 (163.70 to 164.70): V

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: 54.867 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02529

Tgt Ion: 43 Resp: 236248

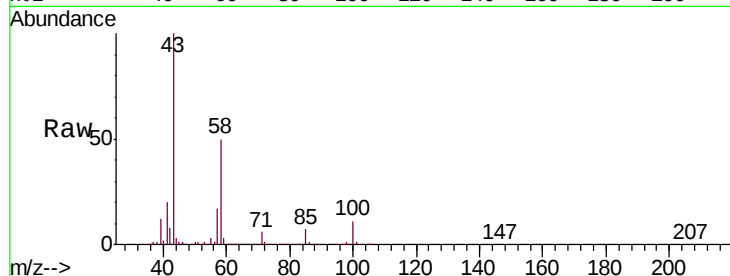
Ion Ratio Lower Upper

43 100

58 50.6 38.9 58.3

57 17.3 13.8 20.6

100 10.6 8.6 13.0

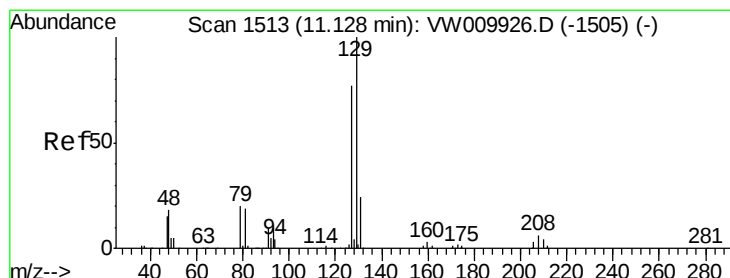
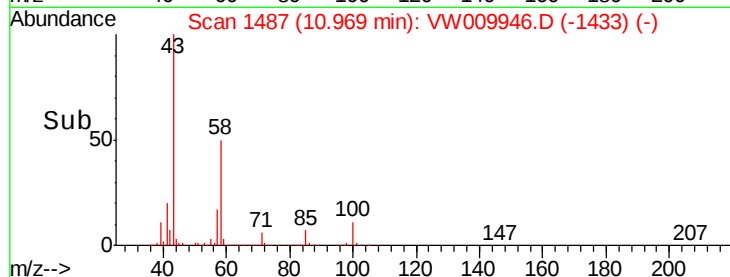
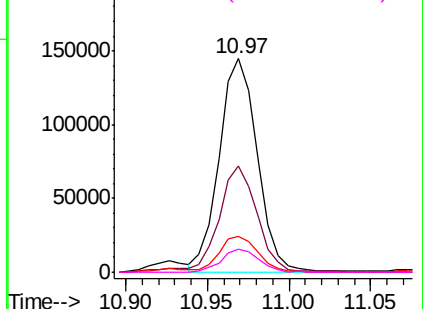


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 27.943 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW009946.D

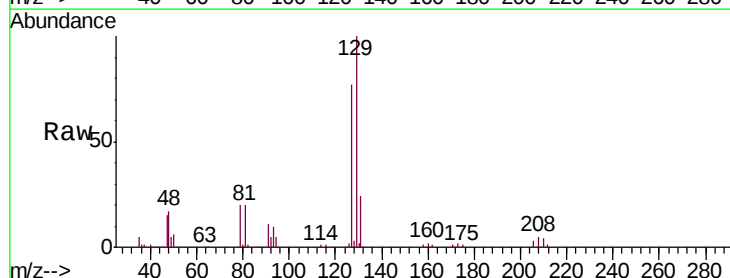
Acq: 12 Apr 2019 07:33

Tgt Ion: 129 Resp: 191828

Ion Ratio Lower Upper

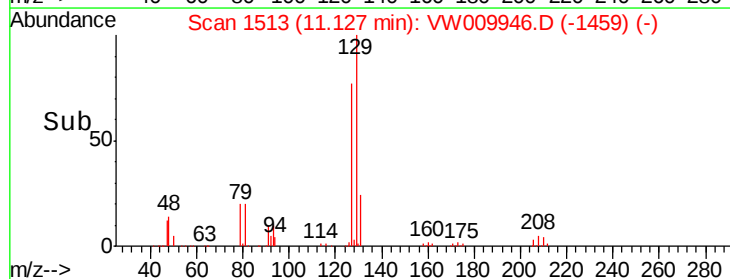
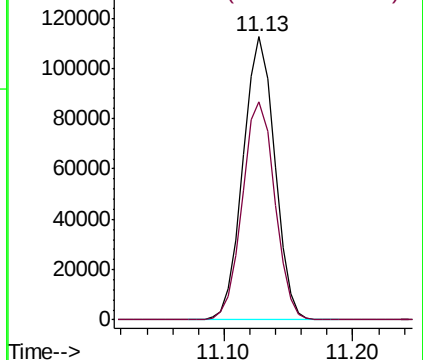
129 100

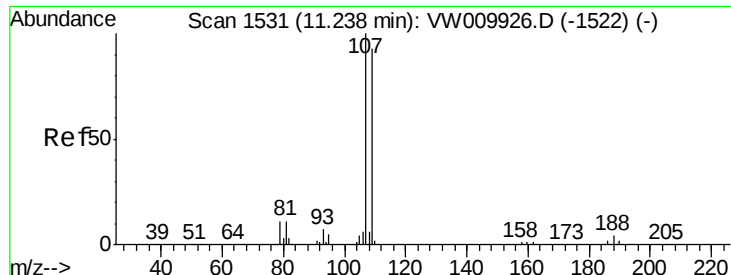
127 76.9 53.0 98.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

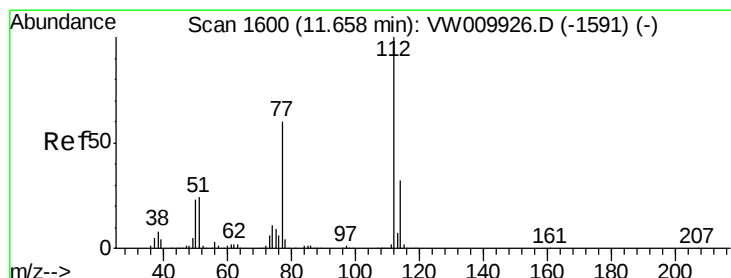
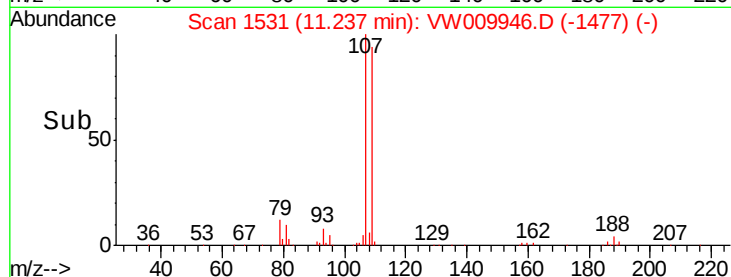
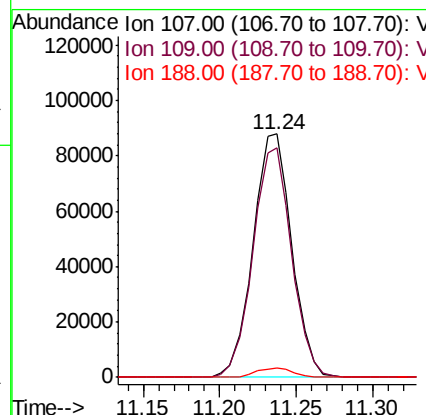
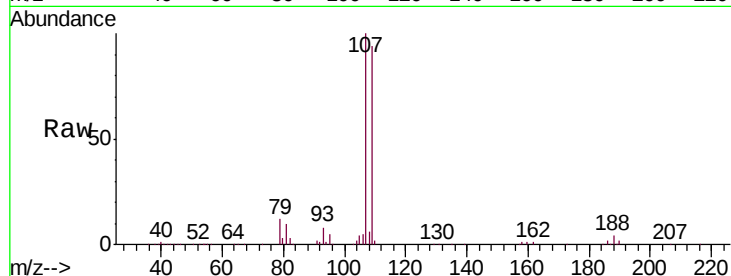




#51
 1,2-Dibromoethane
 Concen: 27.604 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

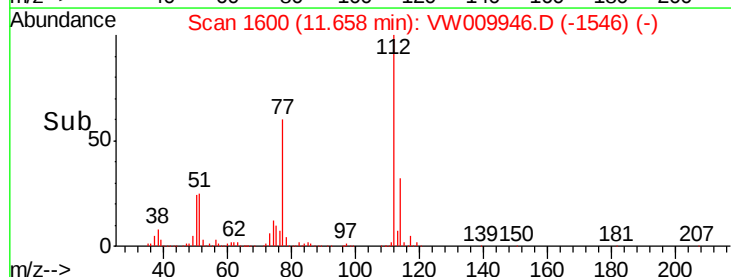
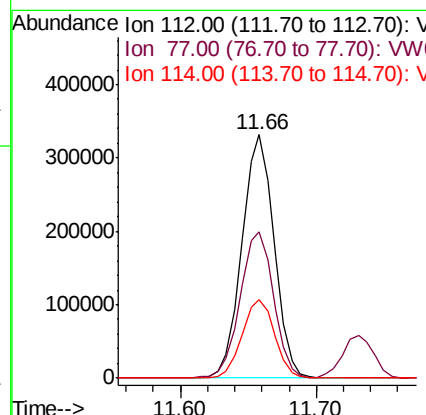
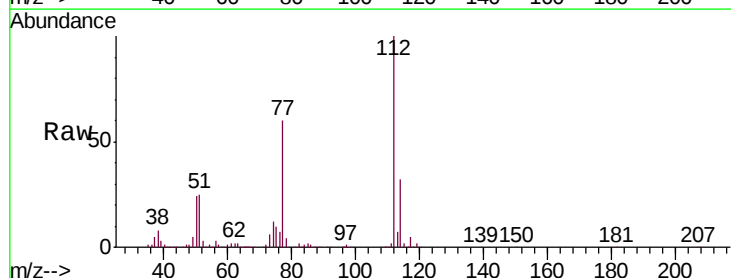
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02529

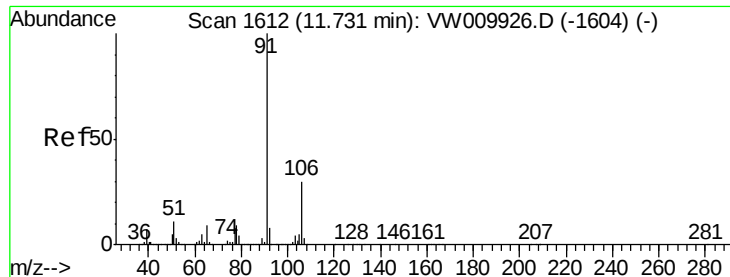
Tgt Ion:107 Resp: 154599
 Ion Ratio Lower Upper
 107 100
 109 94.4 65.4 121.4
 188 4.1 3.2 4.8



#52
 Chlorobenzene
 Concen: 27.562 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

Tgt Ion:112 Resp: 546576
 Ion Ratio Lower Upper
 112 100
 77 60.0 48.2 72.2
 114 32.5 23.0 42.6





#53

Ethylbenzene

Concen: 27.971 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

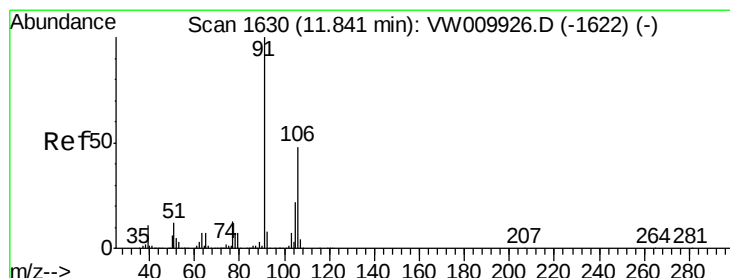
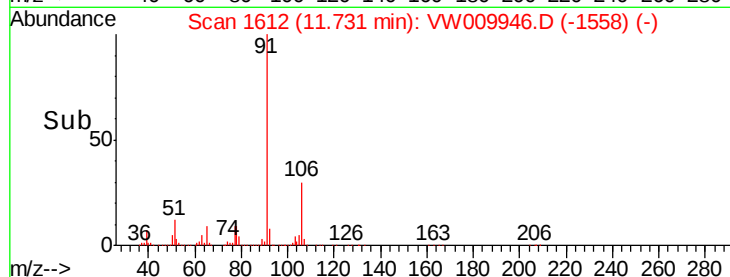
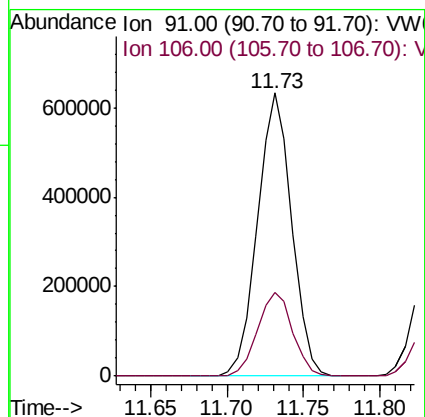
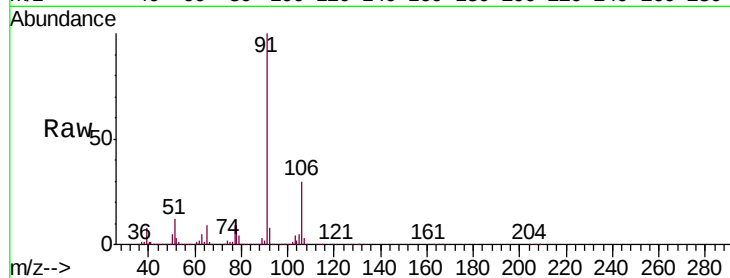
VSTD02529

Tgt Ion: 91 Resp: 981608

Ion Ratio Lower Upper

91 100

106 29.7 21.5 39.9



#54

m,p-Xylene

Concen: 28.022 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW009946.D

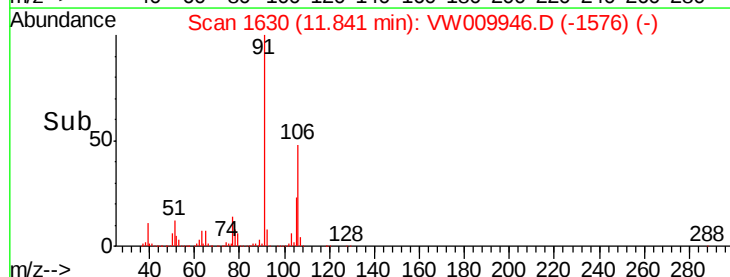
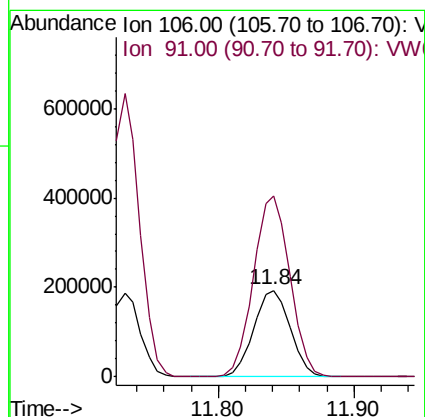
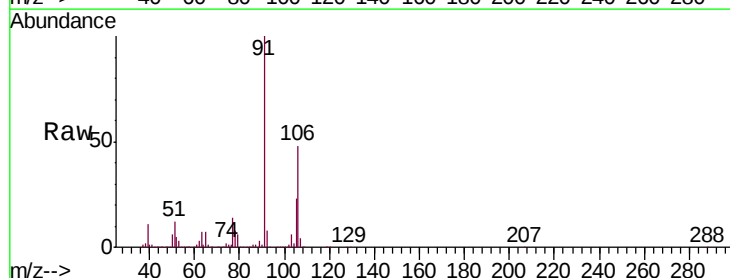
Acq: 12 Apr 2019 07:33

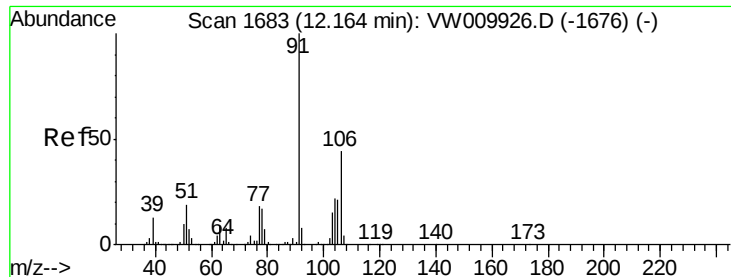
Tgt Ion: 106 Resp: 363724

Ion Ratio Lower Upper

106 100

91 209.4 145.3 269.9





#55

o-xylene

Concen: 28.904 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

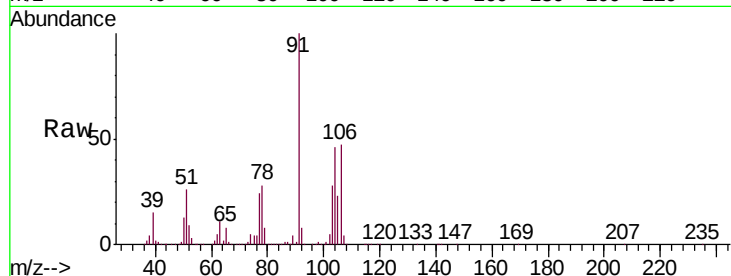
VSTD02529

Tgt Ion:106 Resp: 357318

Ion Ratio Lower Upper

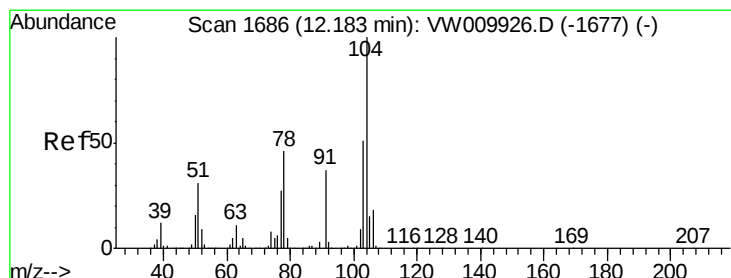
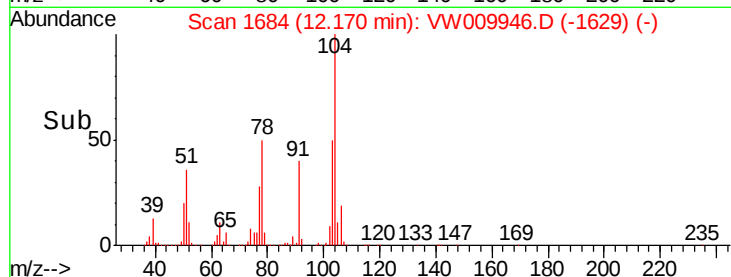
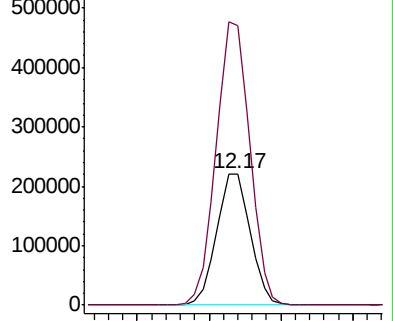
106 100

91 212.3 153.9 285.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 29.276 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW009946.D

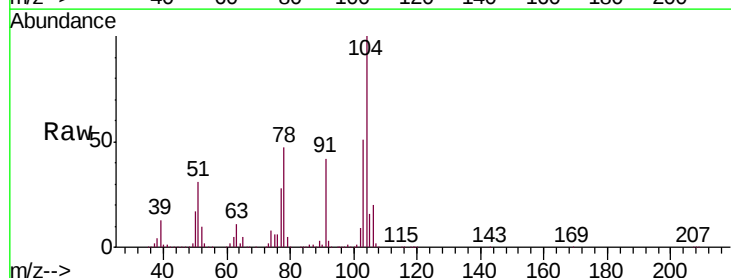
Acq: 12 Apr 2019 07:33

Tgt Ion:104 Resp: 627985

Ion Ratio Lower Upper

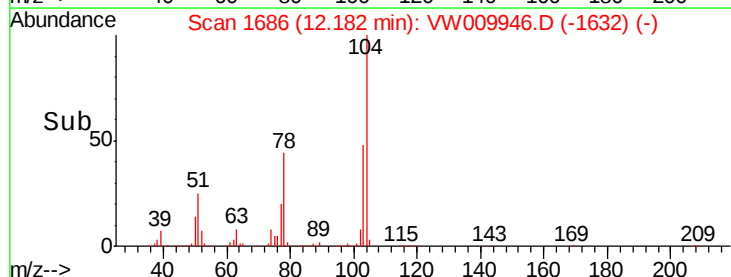
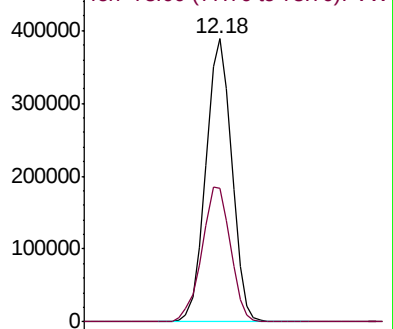
104 100

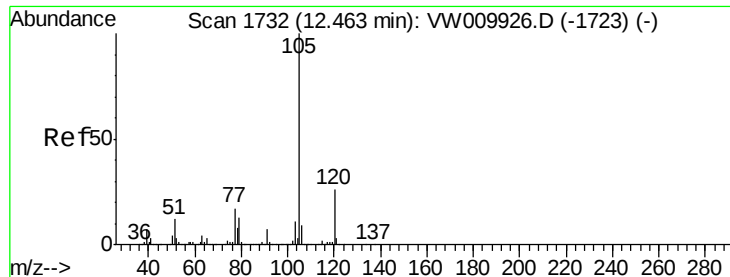
78 47.3 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 28.398 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02529

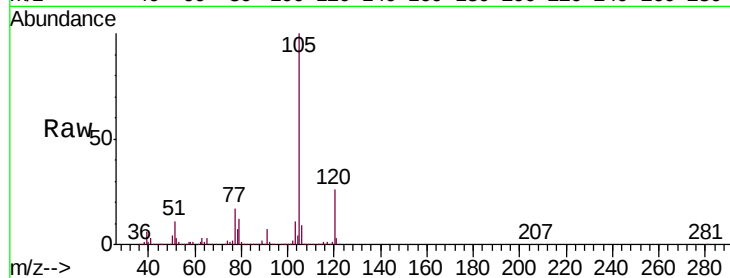
Tgt Ion: 105 Resp: 961298

Ion Ratio Lower Upper

105 100

120 25.9 21.0 31.4

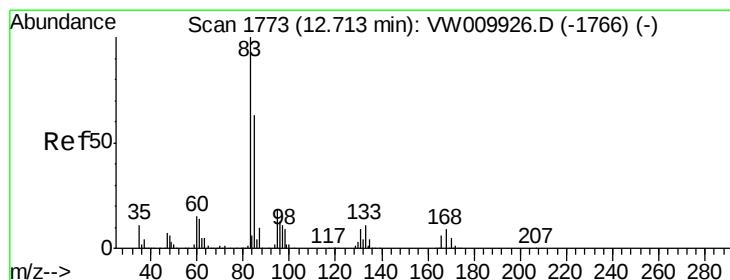
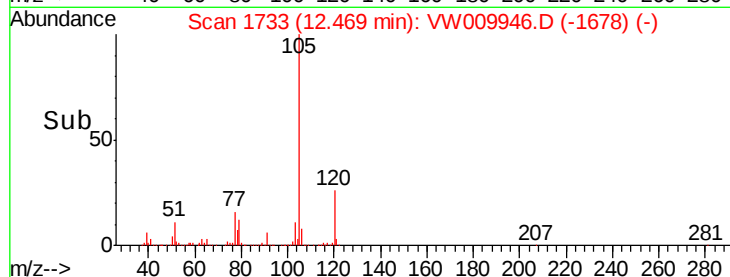
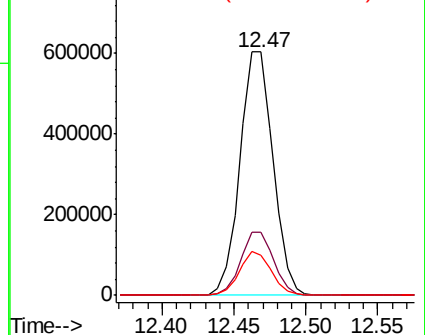
77 17.2 13.4 20.2



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: 28.310 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

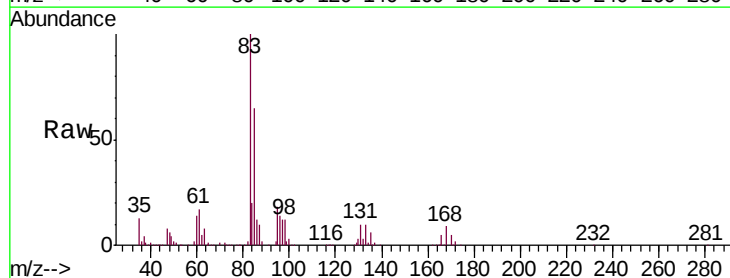
Tgt Ion: 83 Resp: 212717

Ion Ratio Lower Upper

83 100

85 65.2 44.9 83.3

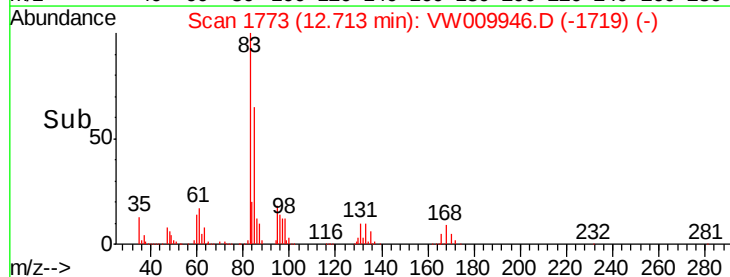
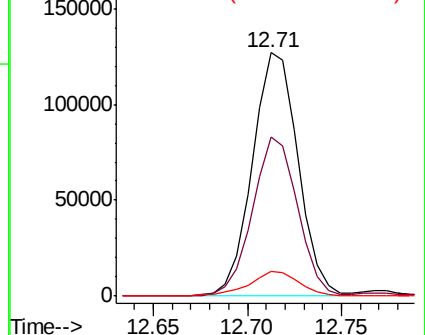
131 10.4 7.2 10.8

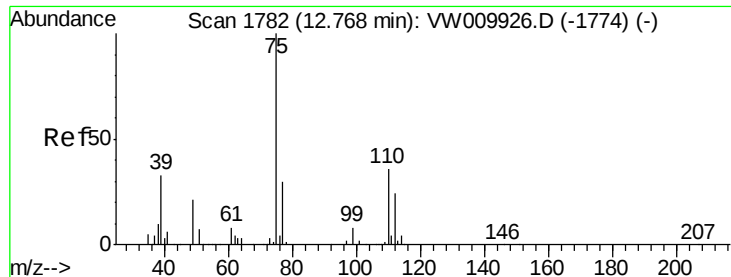


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 28.075 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

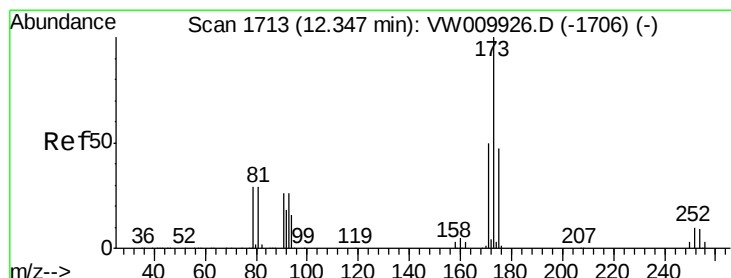
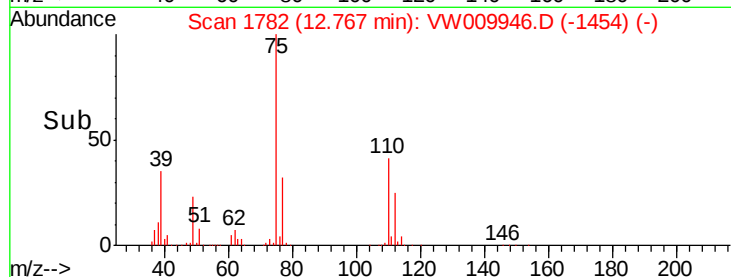
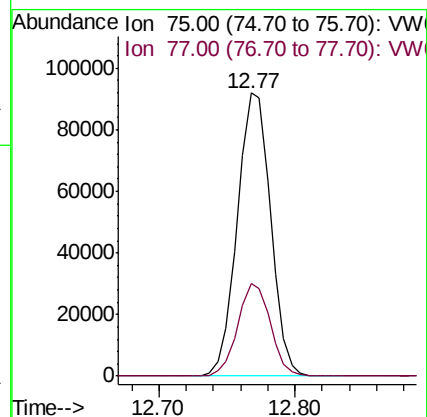
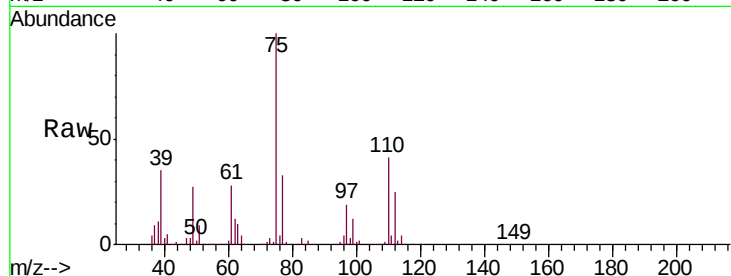
VSTD02529

Tgt Ion: 75 Resp: 157031

Ion Ratio Lower Upper

75 100

77 32.0 26.2 39.2



#62

Bromoform

Concen: 26.700 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

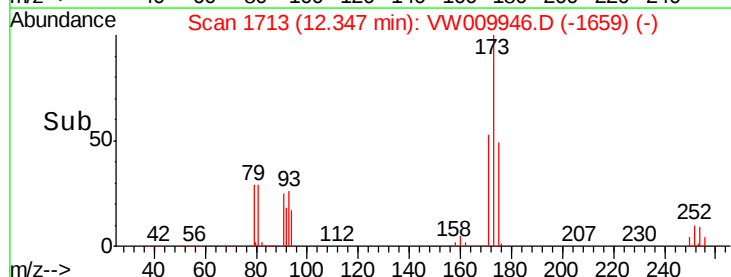
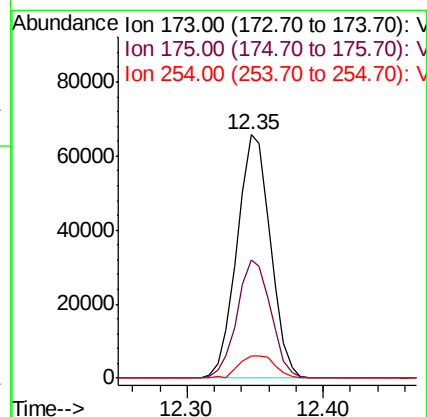
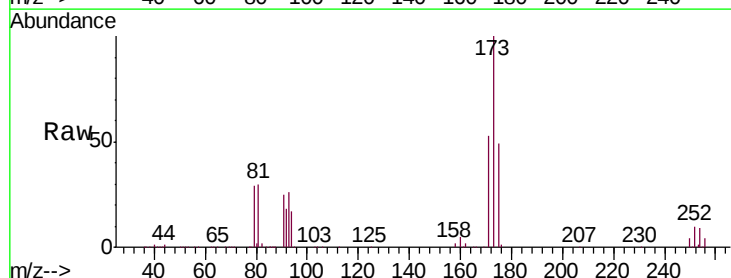
Tgt Ion: 173 Resp: 112935

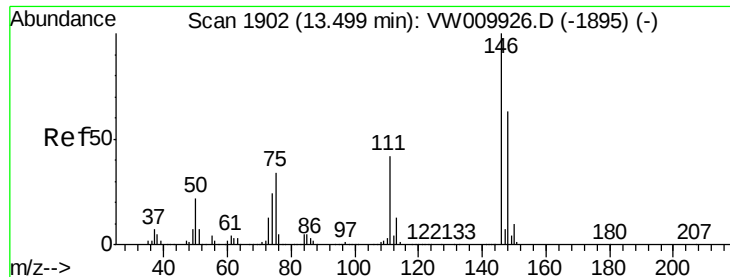
Ion Ratio Lower Upper

173 100

175 49.0 39.4 59.2

254 9.8 8.5 12.7

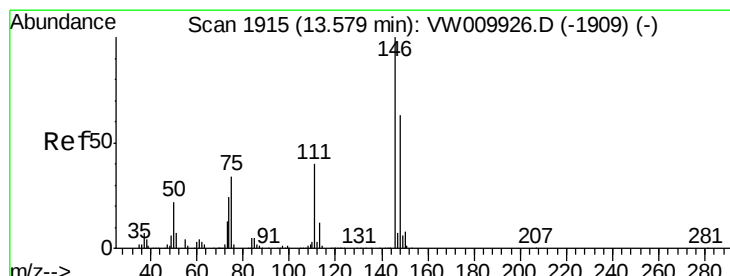
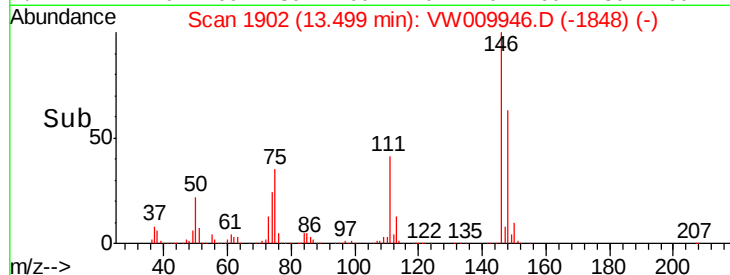
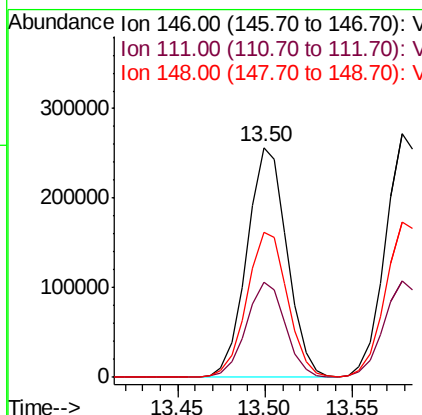
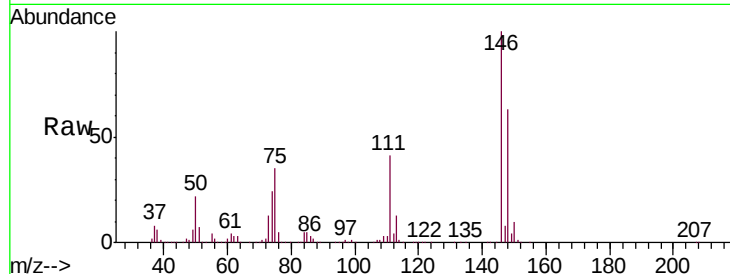




#63
 1,3-Dichlorobenzene
 Concen: 27.625 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

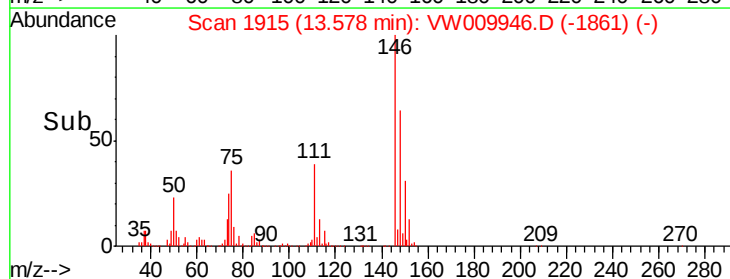
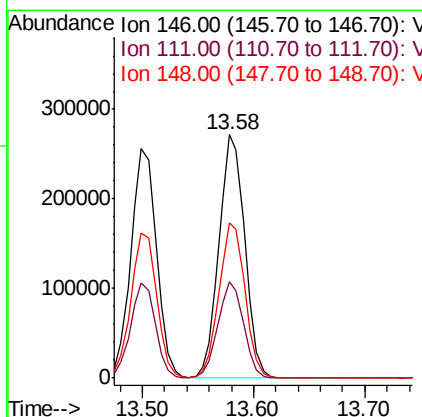
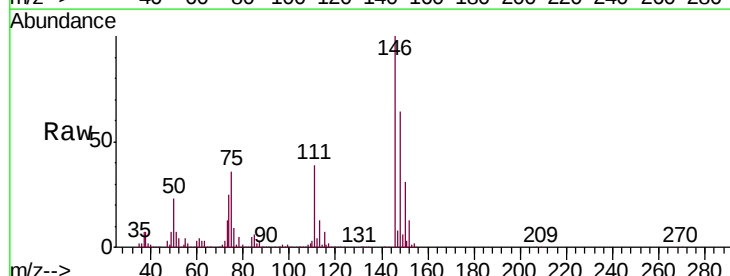
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02529

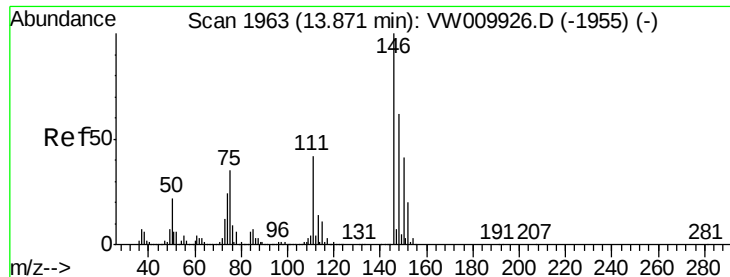
Tgt Ion:146 Resp: 411099
 Ion Ratio Lower Upper
 146 100
 111 41.1 28.1 52.3
 148 62.8 44.3 82.3



#64
 1,4-Dichlorobenzene
 Concen: 27.417 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

Tgt Ion:146 Resp: 435083
 Ion Ratio Lower Upper
 146 100
 111 39.5 27.4 50.8
 148 63.8 43.8 81.3

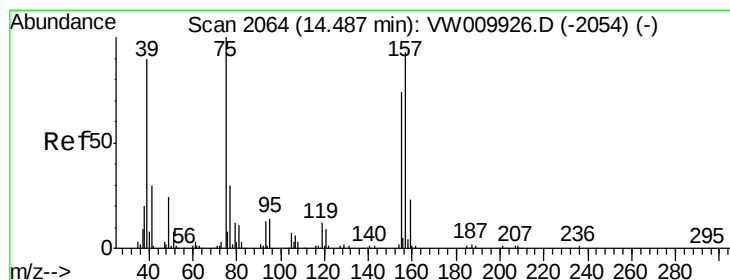
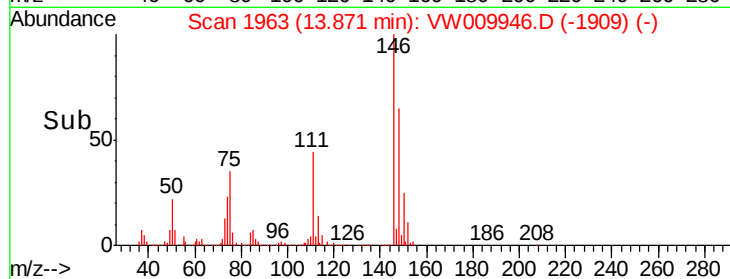
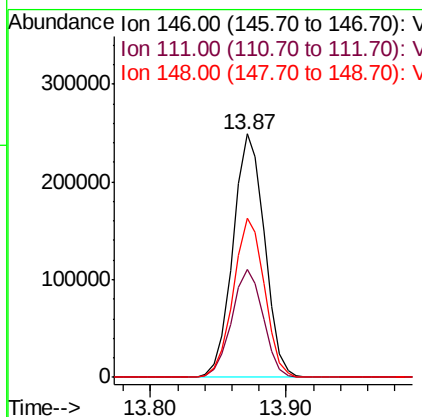
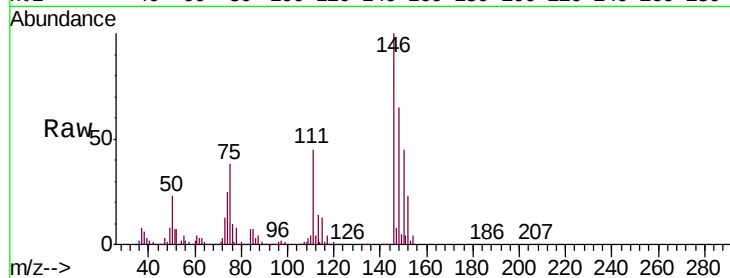




#65
 1,2-Dichlorobenzene
 Concen: 28.114 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

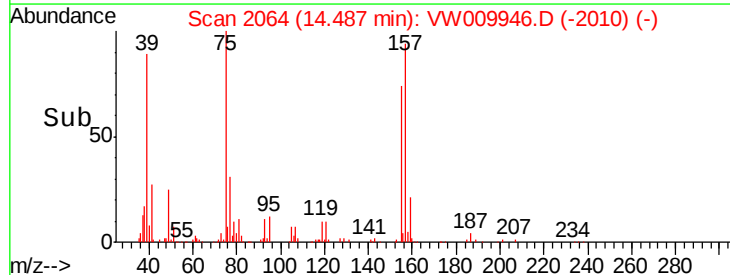
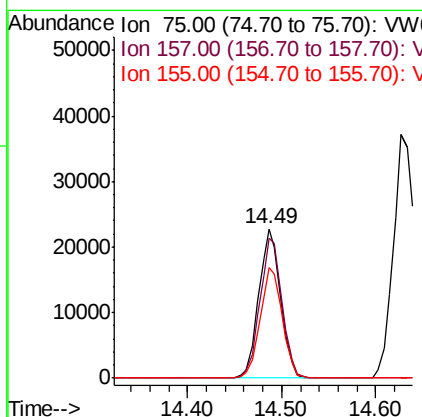
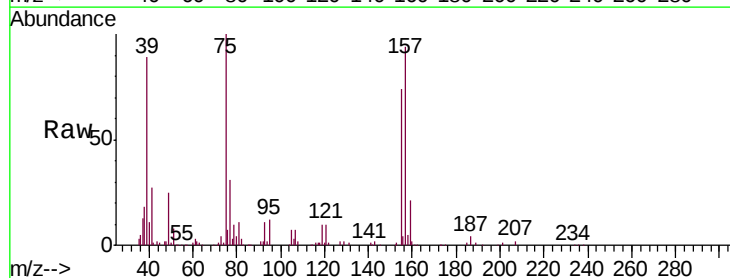
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02529

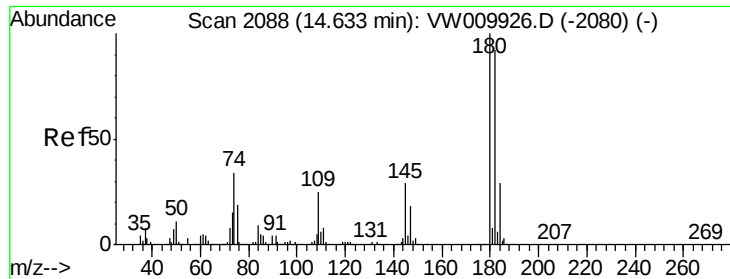
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.5	32.4	48.6
148	65.1	50.5	75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 26.865 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

Tgt Ion	Ratio	Lower	Upper
75	100		
157	93.7	77.2	115.8
155	73.7	61.9	92.9

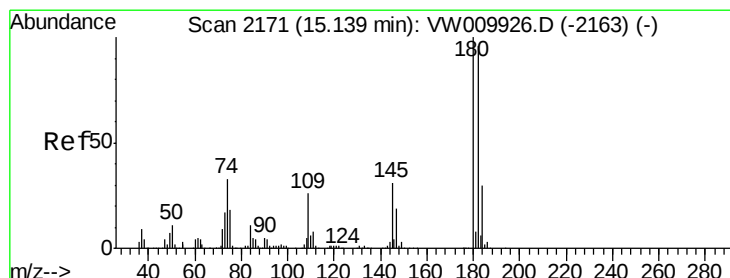
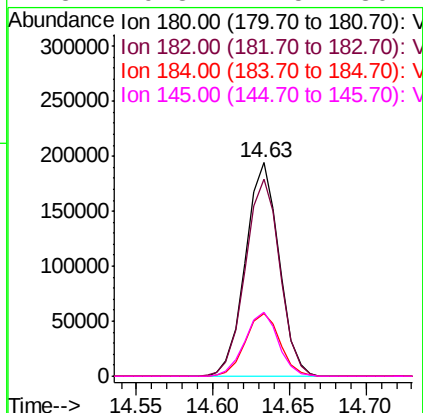
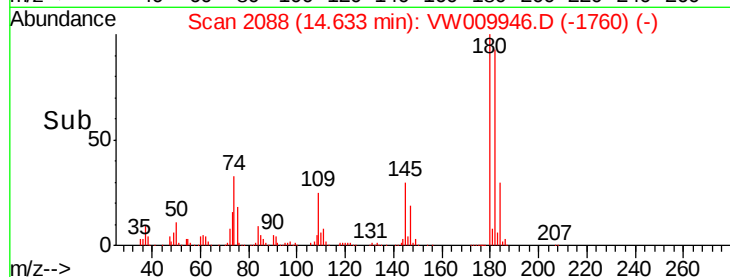
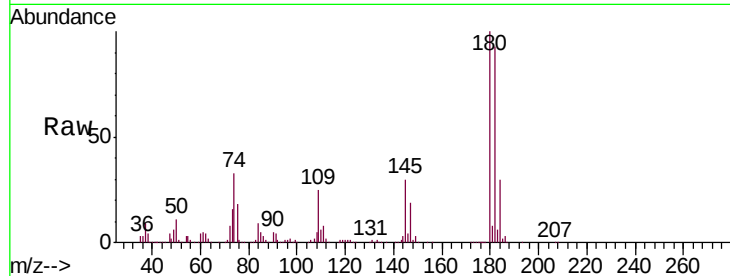




#67
 1,3,5-Trichlorobenzene
 Concen: 26.899 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

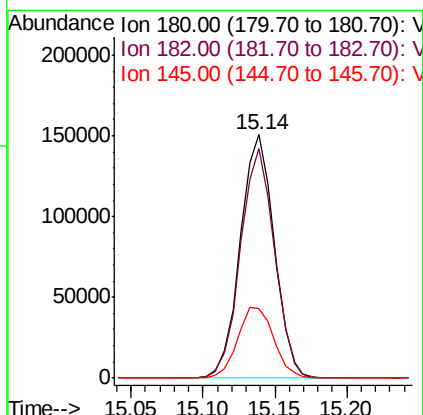
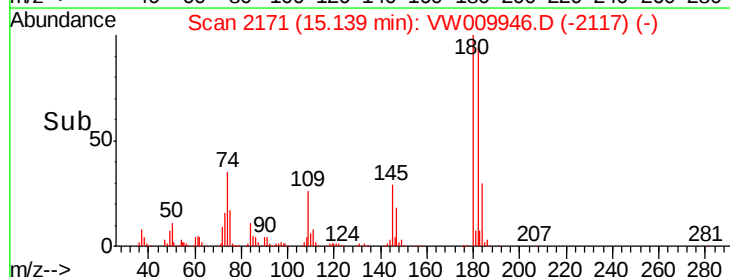
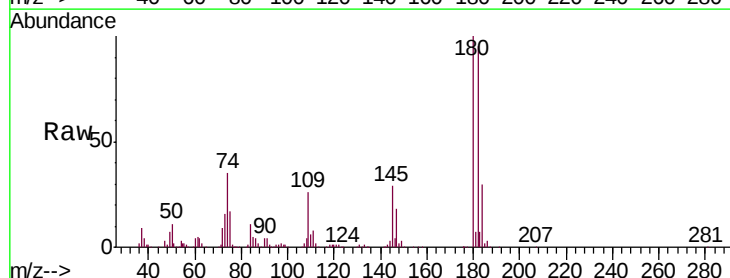
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02529

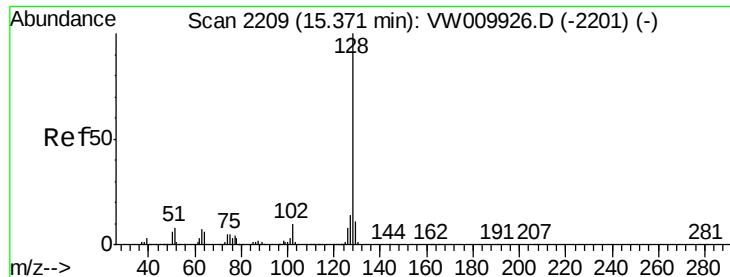
Tgt Ion:	180	Resp:	297017
Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.8	113.6
184	30.3	24.7	37.1
145	29.8	24.5	36.7



#68
 1,2,4-trichlorobenzene
 Concen: 27.790 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW009946.D
 Acq: 12 Apr 2019 07:33

Tgt Ion:	180	Resp:	246426
Ion	Ratio	Lower	Upper
180	100		
182	94.1	75.8	113.8
145	30.9	24.3	36.5





#69

Naphthalene

Concen: 30.179 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

Instrument :

MSVOA_W

ClientSampleId :

VSTD02529

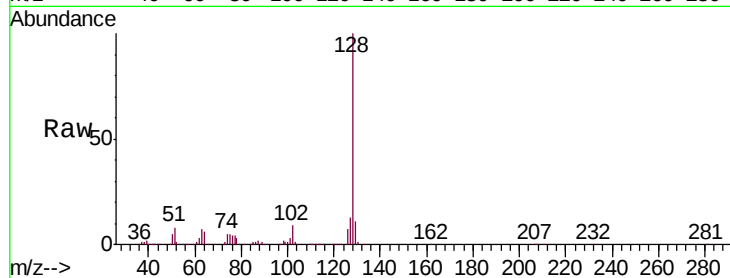
Tgt Ion:128 Resp: 537870

Ion Ratio Lower Upper

128 100

129 10.9 8.5 12.7

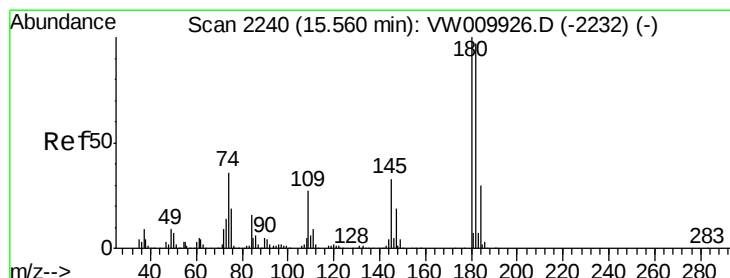
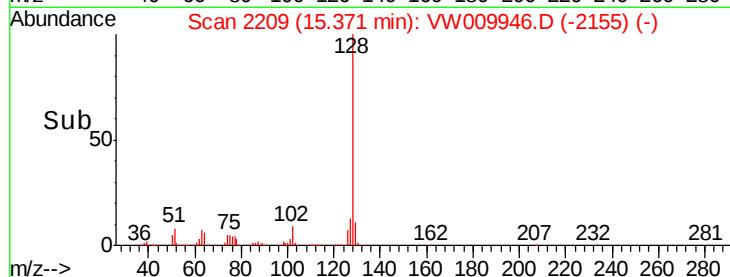
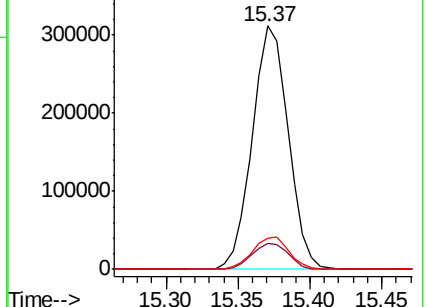
127 13.5 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 29.572 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW009946.D

Acq: 12 Apr 2019 07:33

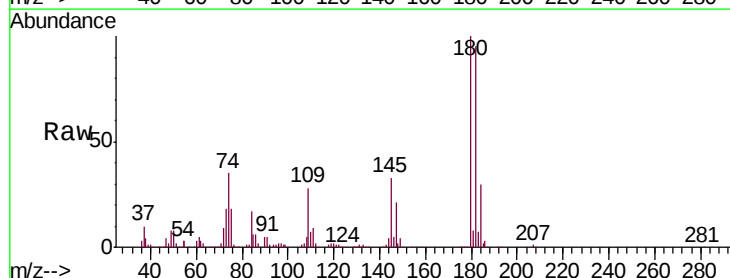
Tgt Ion:180 Resp: 245306

Ion Ratio Lower Upper

180 100

182 95.6 75.0 112.4

145 33.7 25.8 38.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

