

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082418\
 Data File : VW004939.D
 Acq On : 24 Aug 2018 16:47
 Operator : SY/AP
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BFB83

Quant Time: Aug 25 01:19:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM082218S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 24 08:18:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	670659	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	686651	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	359979	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	264848	20.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.56%
7) Chloroethane-d5	2.89	69	206865	22.01	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.04%
10) 1,1-Dichloroethene-d2	4.03	63	351759	21.73	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	86.92%
20) 2-Butanone-d5	7.09	46	106930	41.45	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	82.90%
24) Chloroform-d	7.65	84	351848	23.63	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.52%
26) 1,2-Dichloroethane-d4	8.31	65	191320	23.65	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.60%
29) Benzene-d6	8.28	84	906192	25.66	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.64%
33) 1,2-Dichloropropane-d6	9.28	67	256714	24.74	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.96%
37) Toluene-d8	10.33	98	940966	25.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.60%
38) trans-1,3-Dichloropropene-	10.59	79	107885	24.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.64%
39) 2-Hexanone-d5	10.93	63	114066	44.37	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.74%
48) 1,1,2,2-Tetrachloroethane-	12.70	84	241876	23.20	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.80%
61) 1,2-Dichlorobenzene-d4	13.86	152	363960	25.17	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.68%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.00	85	309064	24.499 ug/L	100
3) Chloromethane	2.22	50	351411	24.579 ug/L	98
5) Vinyl chloride	2.36	62	342889	23.679 ug/L	97
6) Bromomethane	2.78	94	201666	26.585 ug/L	99
8) Chloroethane	2.92	64	195433	24.150 ug/L	98
9) Trichlorofluoromethane	3.26	101	343739	23.458 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	214548	24.477 ug/L	98
12) 1,1-Dichloroethene	4.05	96	185079	23.704 ug/L	88
13) Acetone	4.14	43	79931	39.999 ug/L	98
14) Carbon disulfide	4.39	76	735652	22.739 ug/L	100
15) Methyl Acetate	4.68	43	95726	21.185 ug/L	97
16) Methylene chloride	4.92	84	289605	22.269 ug/L	96
17) Methyl tert-butyl Ether	5.44	73	425324	25.219 ug/L	100
18) trans-1,2-Dichloroethene	5.43	96	202101	24.857 ug/L	98
19) 1,1-Dichloroethane	6.23	63	360719	24.305 ug/L	97
21) 2-Butanone	7.18	43	131624	42.775 ug/L	98
22) cis-1,2-Dichloroethene	7.18	96	217113	24.746 ug/L	97

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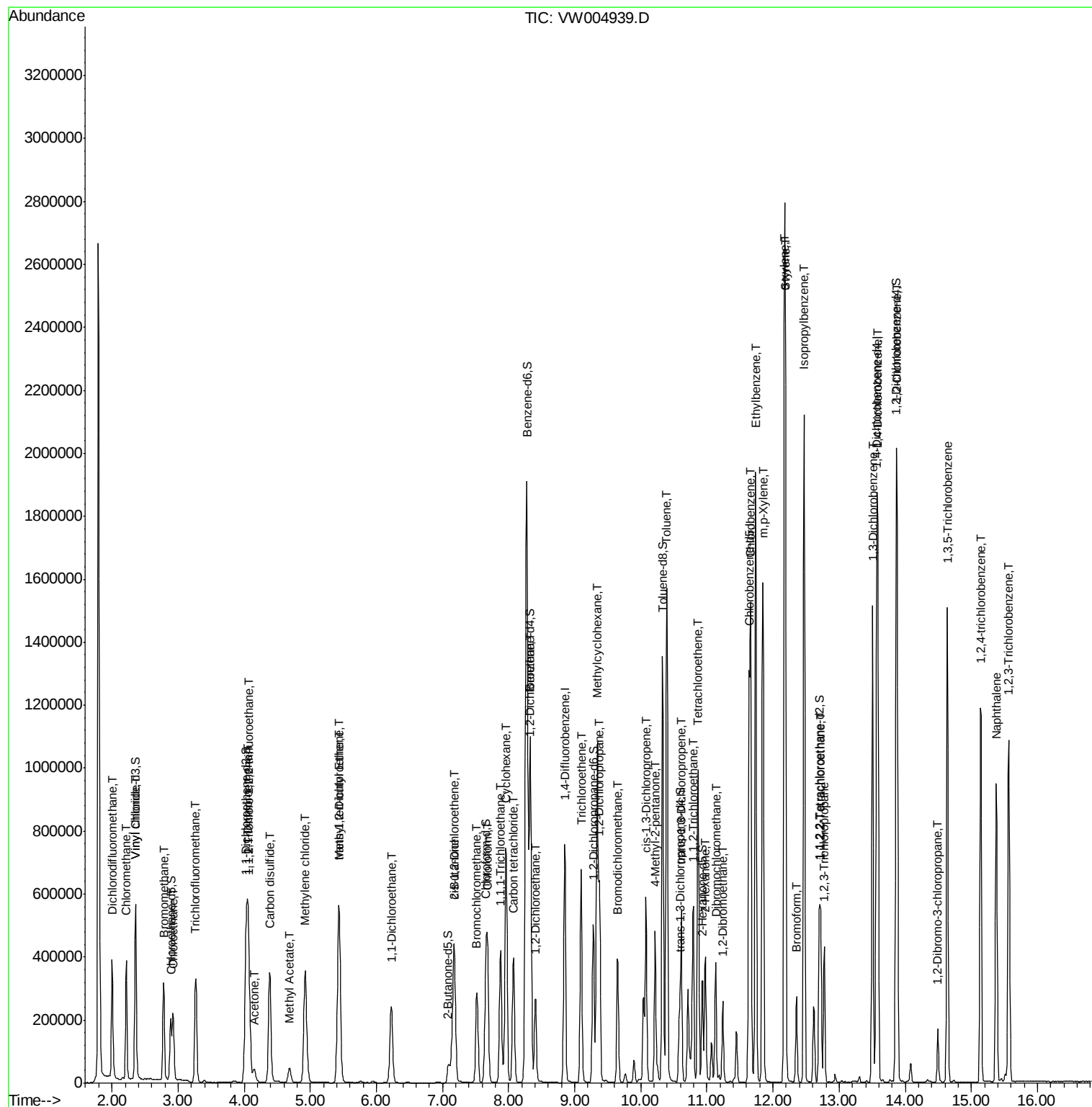
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	110727	23.900	ug/L	97
25) Chloroform	7.68	83	370342	24.897	ug/L	99
27) 1,2-Dichloroethane	8.40	62	238698	24.482	ug/L	99
30) Cyclohexane	7.96	56	387389	26.503	ug/L	98
31) 1,1,1-Trichloroethane	7.88	97	337250	25.500	ug/L	99
32) Carbon tetrachloride	8.07	117	306880	25.942	ug/L	99
34) Benzene	8.33	78	1030717	26.326	ug/L	100
35) Trichloroethene	9.10	95	245254	25.192	ug/L	99
36) Methylcyclohexane	9.34	83	450806	25.035	ug/L	100
40) 1,2-Dichloropropane	9.37	63	247381	25.686	ug/L	100
41) Bromodichloromethane	9.65	83	276321	26.038	ug/L	98
42) cis-1,3-Dichloropropene	10.08	75	347337	25.981	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	318449	44.792	ug/L	99
44) Toluene	10.40	91	1231171	26.185	ug/L	100
45) trans-1,3-Dichloropropene	10.61	75	301503	24.866	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	183390	24.396	ug/L	99
47) Tetrachloroethene	10.87	164	241267	25.314	ug/L	96
49) 2-Hexanone	10.98	43	248352	45.203	ug/L	100
50) Dibromochloromethane	11.13	129	206741	24.772	ug/L	99
51) 1,2-Dibromoethane	11.24	107	175369	23.765	ug/L	97
52) Chlorobenzene	11.66	112	795709	25.476	ug/L	99
53) Ethylbenzene	11.74	91	1382372	26.128	ug/L	99
54) m,p-Xylene	11.85	106	548379	26.718	ug/L	98
55) o-xylene	12.17	106	513568	26.780	ug/L	96
56) Styrene	12.19	104	898196	27.260	ug/L	99
57) Isopropylbenzene	12.47	105	1365029	26.648	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.72	83	249490	23.287	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	188874	22.878	ug/L	99
62) Bromoform	12.35	173	133491	23.388	ug/L	100
63) 1,3-Dichlorobenzene	13.51	146	640087	25.809	ug/L	96
64) 1,4-Dichlorobenzene	13.59	146	663037	25.536	ug/L	97
65) 1,2-Dichlorobenzene	13.88	146	613447	25.815	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	41730	20.708	ug/L	98
67) 1,3,5-Trichlorobenzene	14.64	180	515598	25.982	ug/L	100
68) 1,2,4-trichlorobenzene	15.15	180	416595	26.000	ug/L	99
69) Naphthalene	15.38	128	815808	25.049	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	401226	26.586	ug/L	99

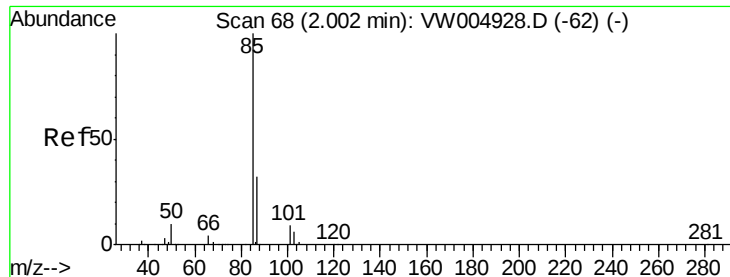
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 24.499 ug/L

RT: 2.00 min Scan# 68

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

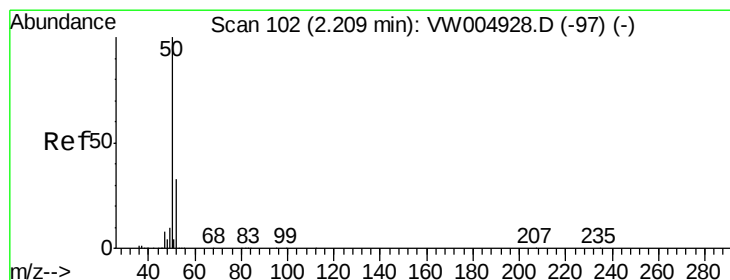
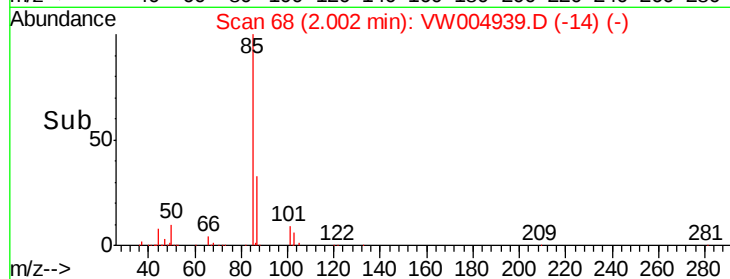
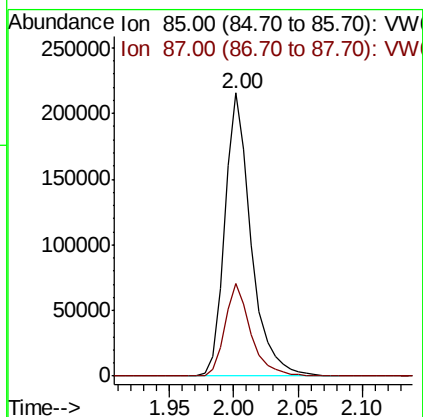
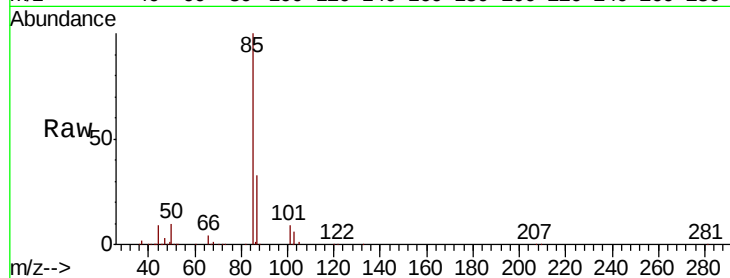
BFB83

Tgt Ion: 85 Resp: 309064

Ion Ratio Lower Upper

85 100

87 32.1 22.6 42.0



#3

Chloromethane

Concen: 24.579 ug/L

RT: 2.22 min Scan# 103

Delta R.T. 0.01 min

Lab File: VW004939.D

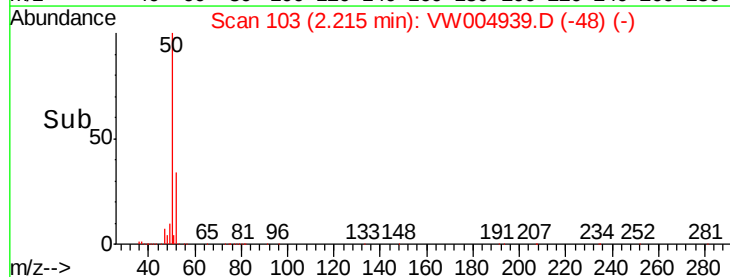
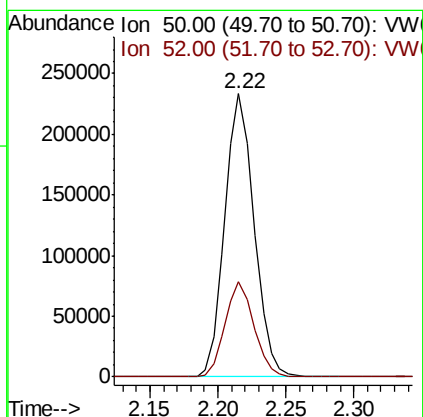
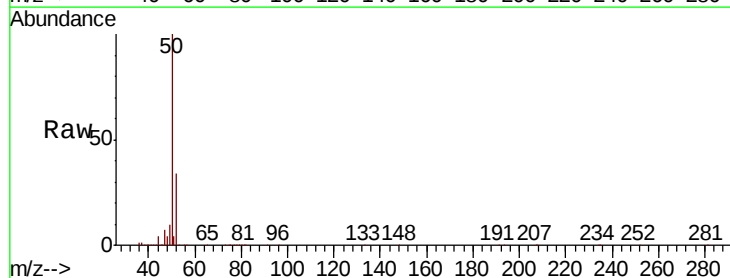
Acq: 24 Aug 2018 16:47

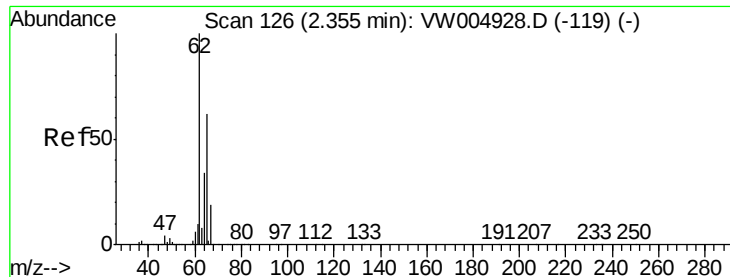
Tgt Ion: 50 Resp: 351411

Ion Ratio Lower Upper

50 100

52 33.5 22.5 41.9





#5

Vinyl chloride

Concen: 23.679 ug/L

RT: 2.36 min Scan# 127

Delta R.T. 0.01 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

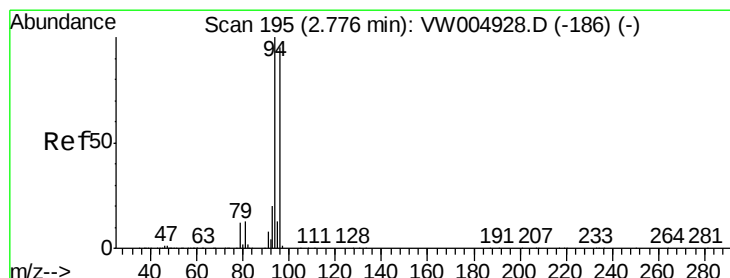
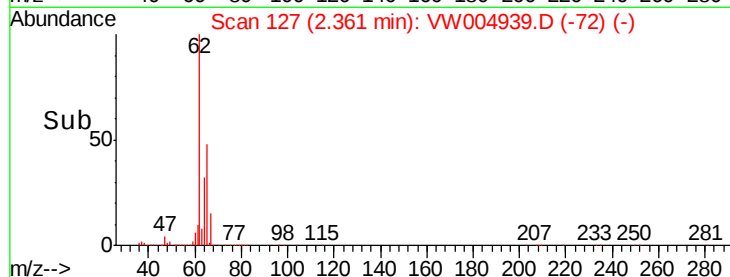
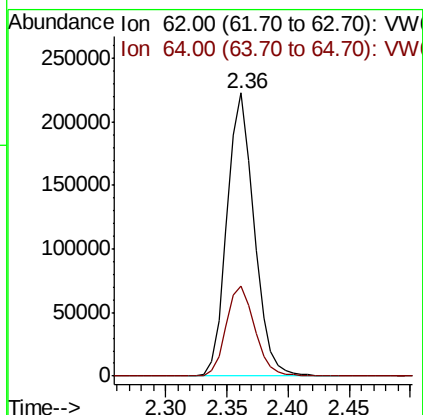
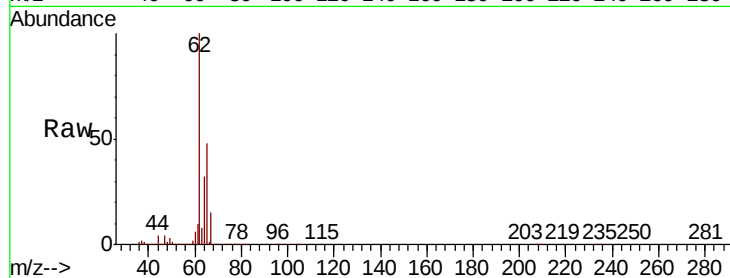
BFB83

Tgt Ion: 62 Resp: 342889

Ion Ratio Lower Upper

62 100

64 31.8 23.3 43.3



#6

Bromomethane

Concen: 26.585 ug/L

RT: 2.78 min Scan# 196

Delta R.T. 0.01 min

Lab File: VW004939.D

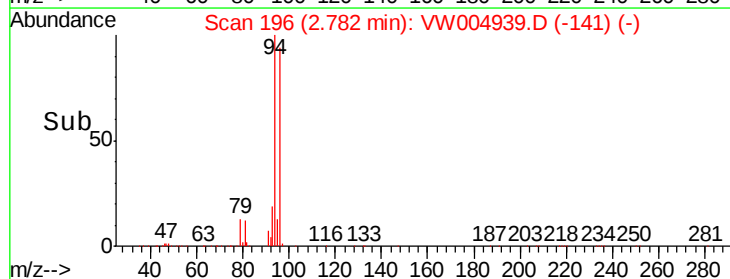
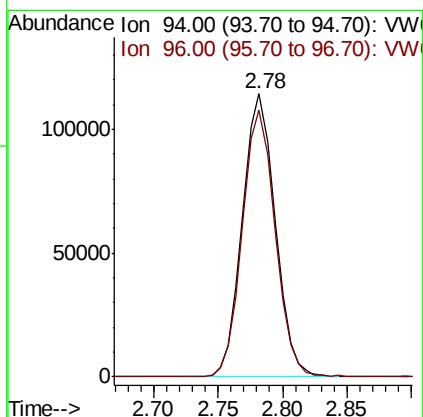
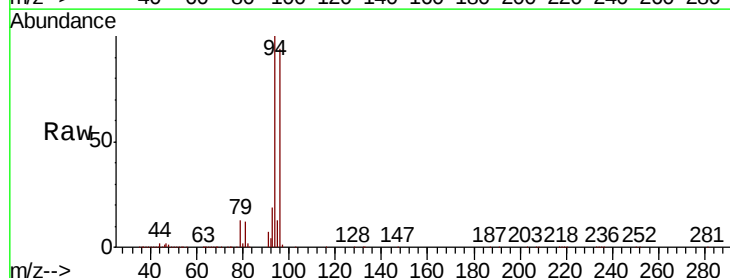
Acq: 24 Aug 2018 16:47

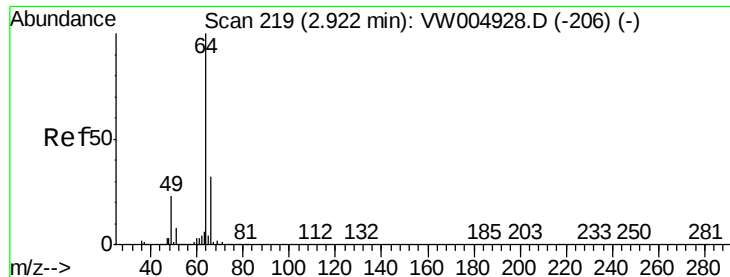
Tgt Ion: 94 Resp: 201666

Ion Ratio Lower Upper

94 100

96 94.2 9.3 177.7





#8

Chloroethane

Concen: 24.150 ug/L

RT: 2.92 min Scan# 219

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampled :

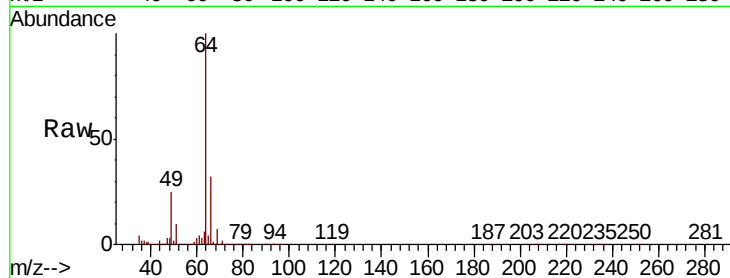
BFB83

Tgt Ion: 64 Resp: 195433

Ion Ratio Lower Upper

64 100

66 31.5 21.5 39.9



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW

2.92

100000

80000

60000

40000

20000

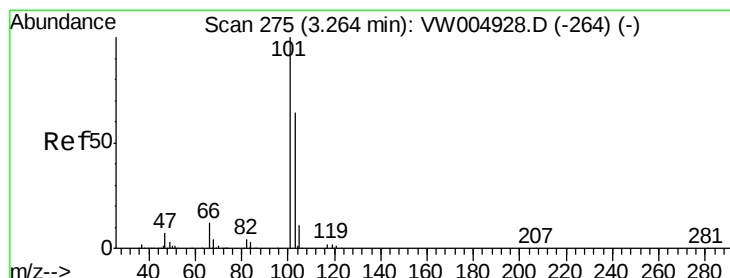
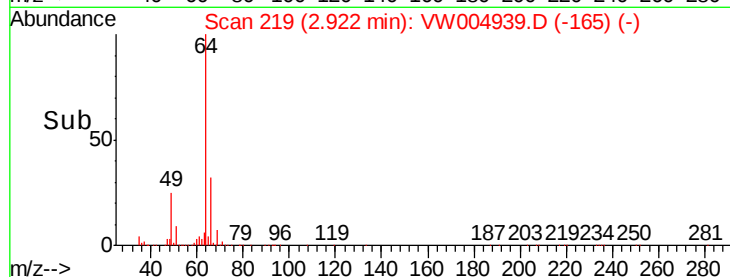
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Time-->

2.80

2.90

3.00



#9

Trichlorofluoromethane

Concen: 23.458 ug/L

RT: 3.26 min Scan# 275

Delta R.T. -0.00 min

Lab File: VW004939.D

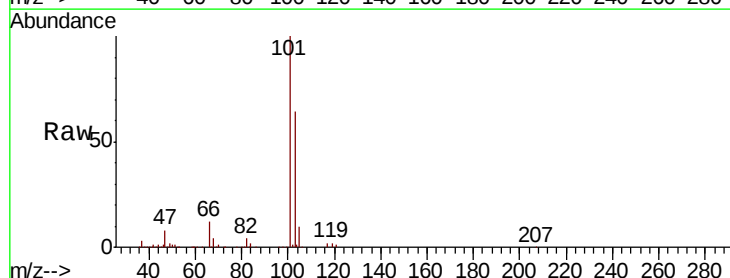
Acq: 24 Aug 2018 16:47

Tgt Ion: 101 Resp: 343739

Ion Ratio Lower Upper

101 100

103 64.5 45.1 83.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.26

150000

100000

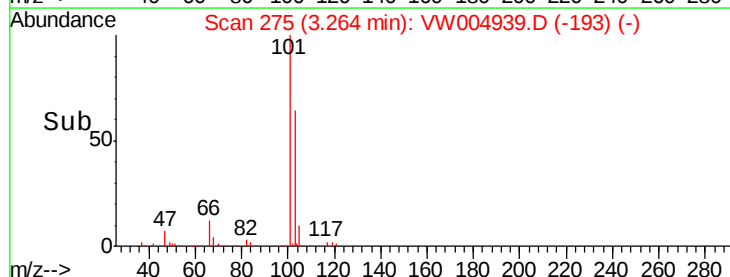
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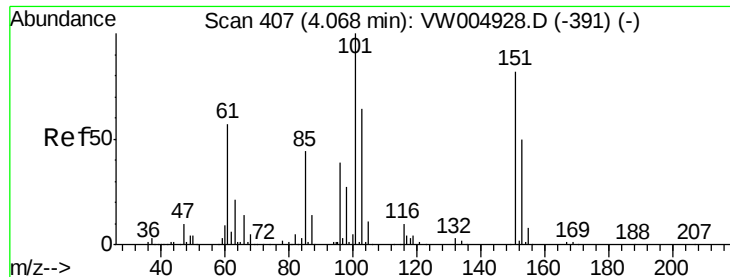
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Time-->

3.20

3.30





#11

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

Concen: 24.477 ug/L

RT: 4.07 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

BFB83

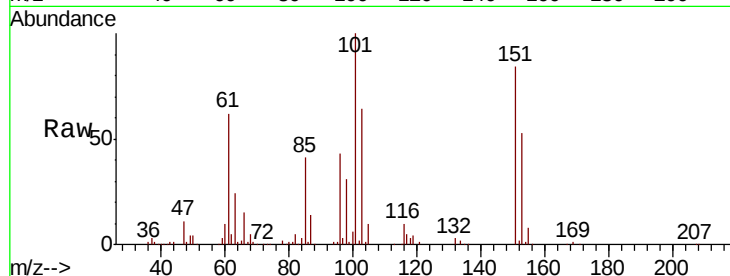
Tgt Ion: 101 Resp: 214548

Ion Ratio Lower Upper

101 100

85 41.4 34.2 51.2

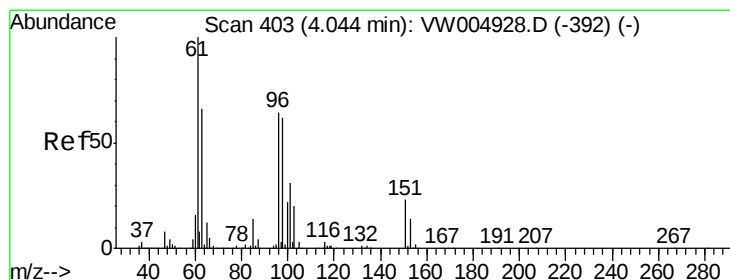
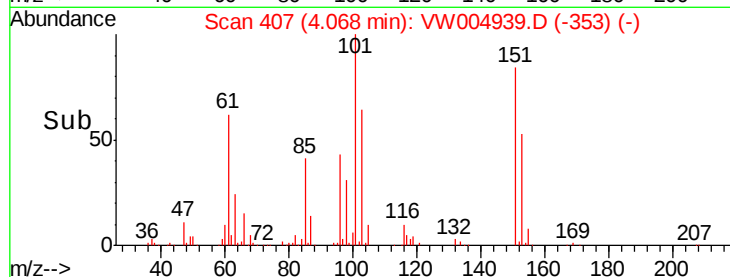
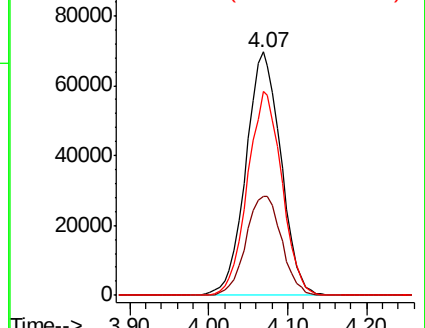
151 82.2 64.1 96.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 23.704 ug/L

RT: 4.05 min Scan# 404

Delta R.T. 0.01 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

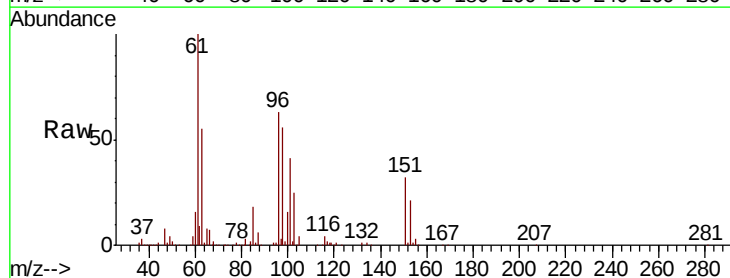
Tgt Ion: 96 Resp: 185079

Ion Ratio Lower Upper

96 100

61 159.3 107.0 198.8

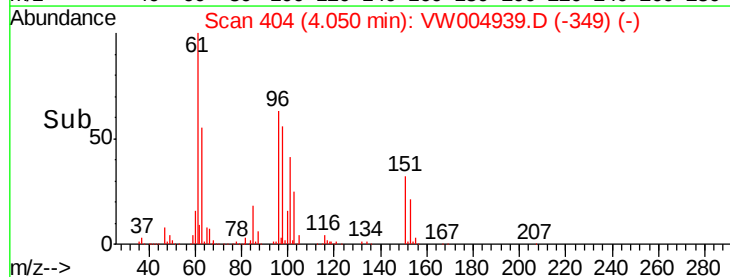
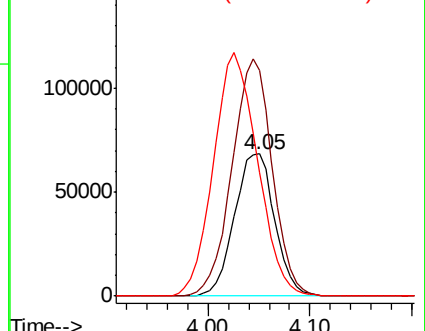
63 86.9 76.9 142.7

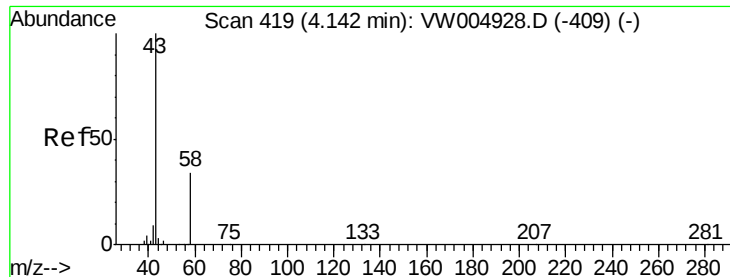


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 39.999 ug/L

RT: 4.14 min Scan# 419

Delta R.T. -0.00 min

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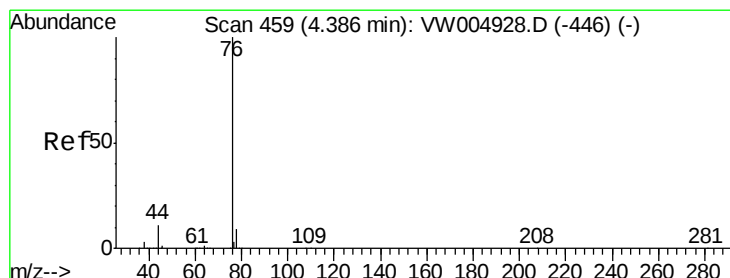
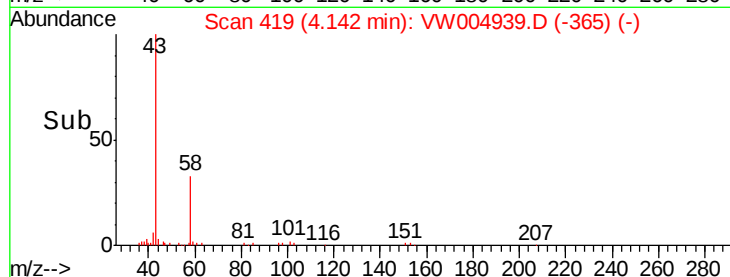
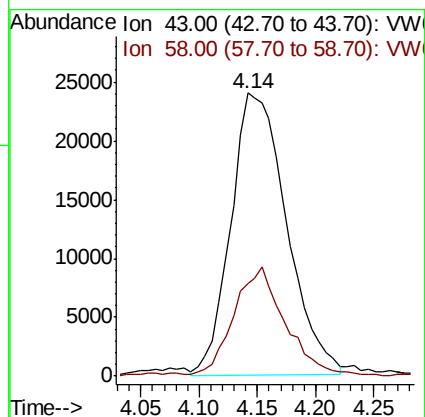
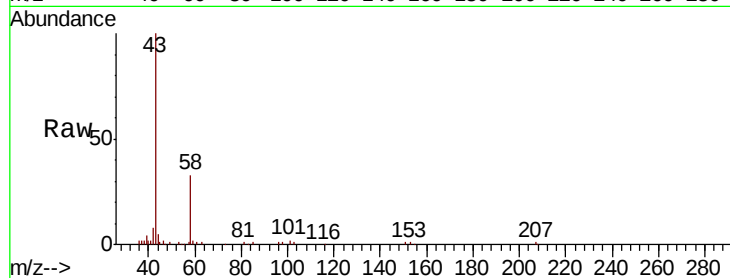
BFB83

Tgt Ion: 43 Resp: 79931

Ion Ratio Lower Upper

43 100

58 35.7 0.0 69.4



#14

Carbon disulfide

Concen: 22.739 ug/L

RT: 4.39 min Scan# 459

Delta R.T. -0.00 min

Lab File: VW004939.D

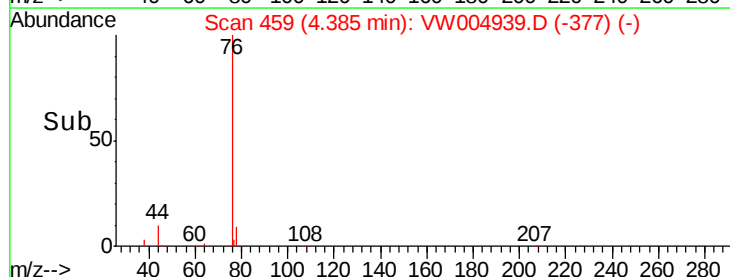
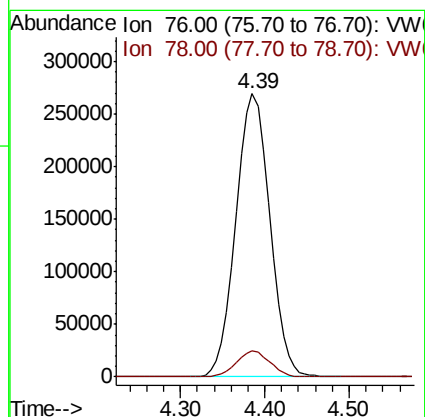
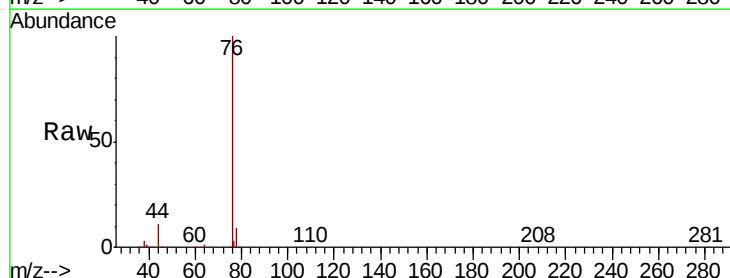
Acq: 24 Aug 2018 16:47

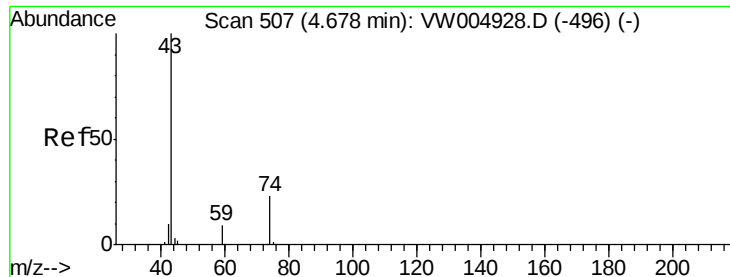
Tgt Ion: 76 Resp: 735652

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0

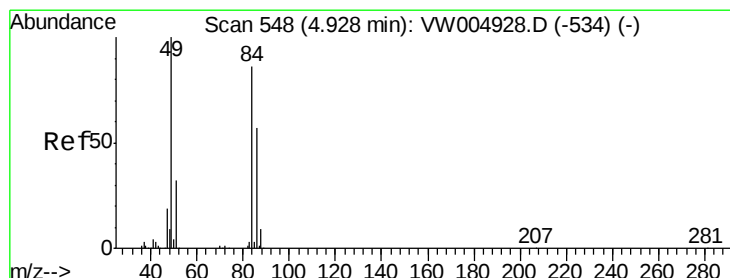
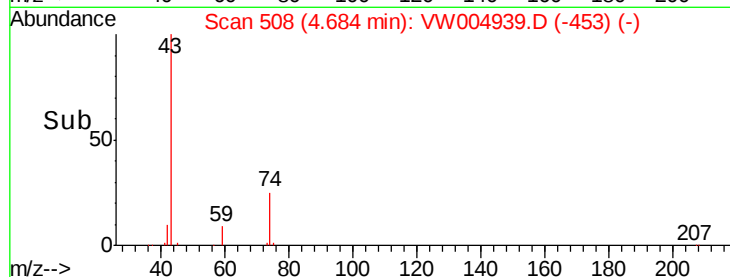
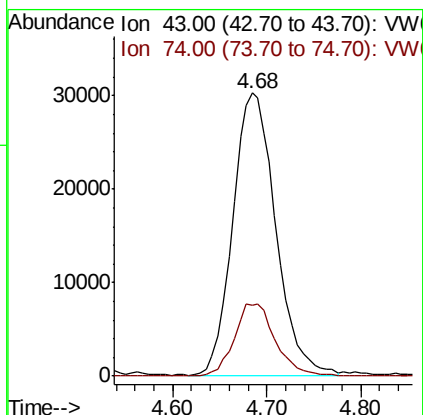
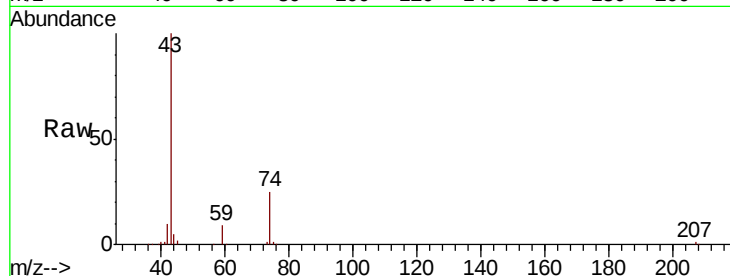




#15
Methyl Acetate
Concen: 21.185 ug/L
RT: 4.68 min Scan# 508
Delta R.T. 0.01 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

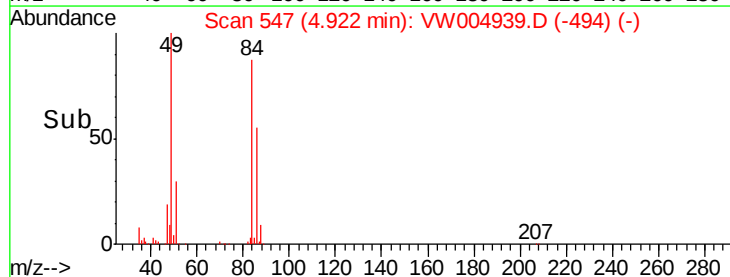
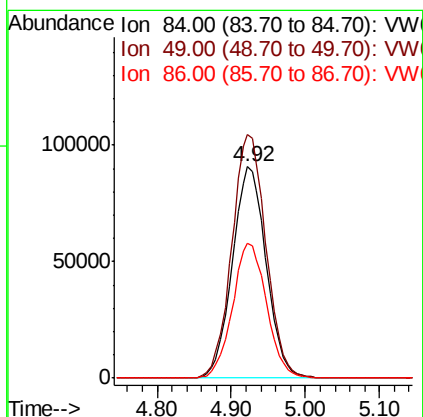
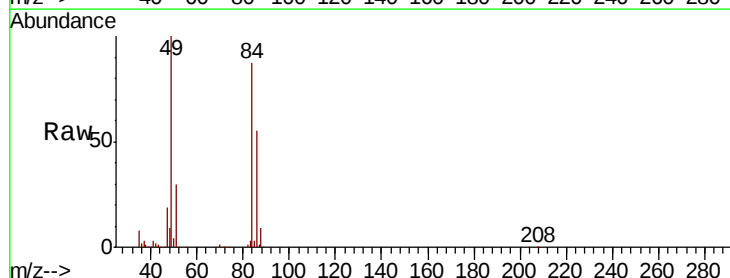
Instrument :
MSVOA_W
ClientSampleId :
BFB83

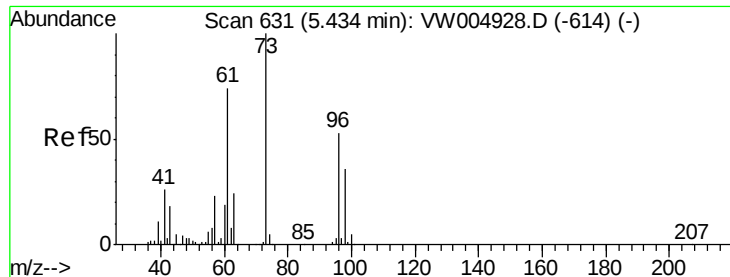
Tgt Ion: 43 Resp: 95726
Ion Ratio Lower Upper
43 100
74 24.6 18.6 27.8



#16
Methylene chloride
Concen: 22.269 ug/L
RT: 4.92 min Scan# 547
Delta R.T. -0.01 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

Tgt Ion: 84 Resp: 289605
Ion Ratio Lower Upper
84 100
49 115.3 83.8 155.6
86 63.7 42.6 79.0

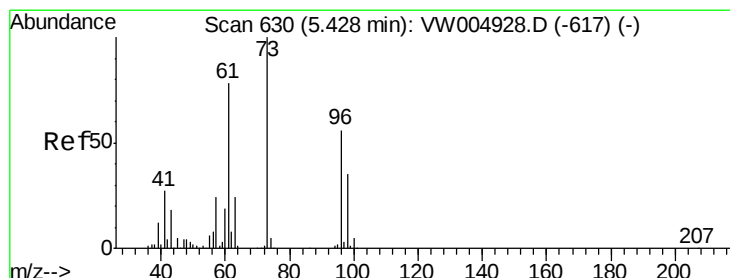
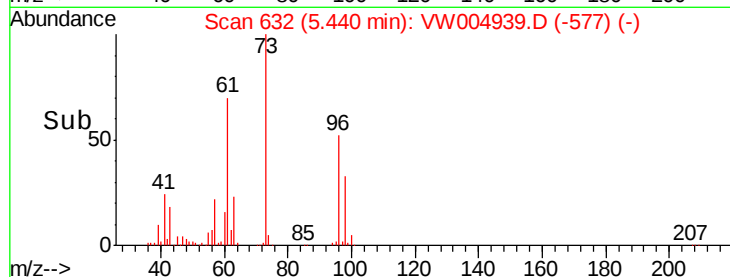
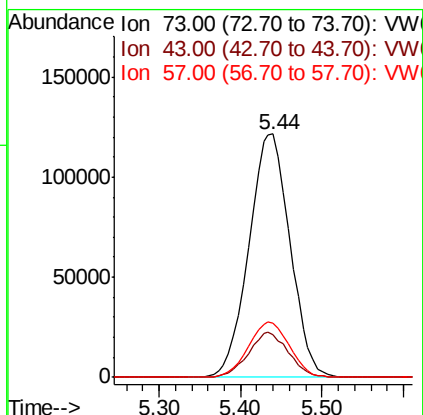
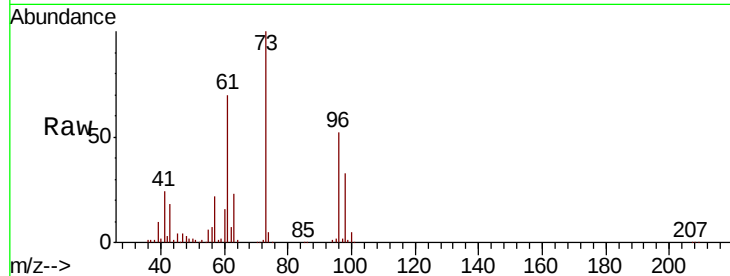




#17
Methyl tert-butyl Ether
Concen: 25.219 ug/L
RT: 5.44 min Scan# 632
Delta R.T. 0.01 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

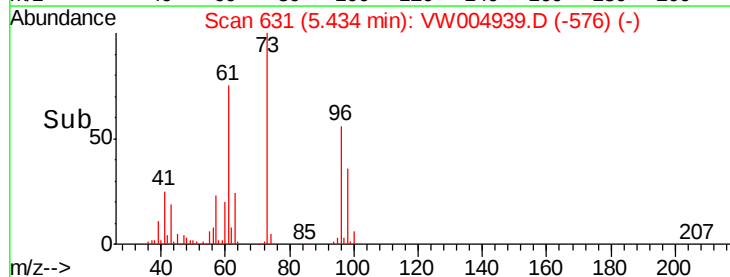
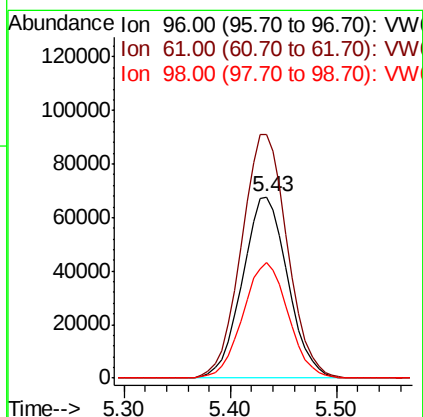
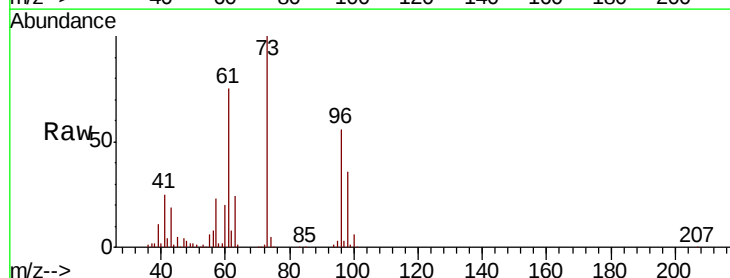
Instrument :
MSVOA_W
ClientSampleId :
BFB83

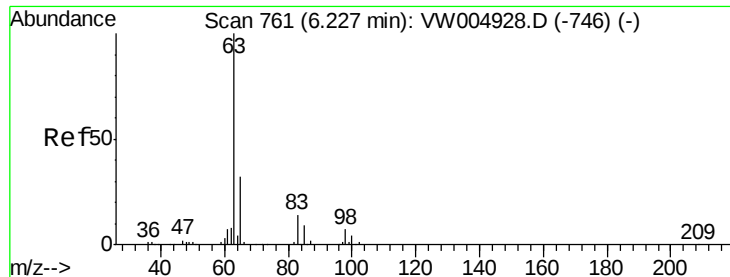
Tgt Ion: 73 Resp: 425324
Ion Ratio Lower Upper
73 100
43 18.2 14.6 22.0
57 22.9 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 24.857 ug/L
RT: 5.43 min Scan# 631
Delta R.T. 0.01 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

Tgt Ion: 96 Resp: 202101
Ion Ratio Lower Upper
96 100
61 134.2 92.5 171.9
98 64.0 42.8 79.4

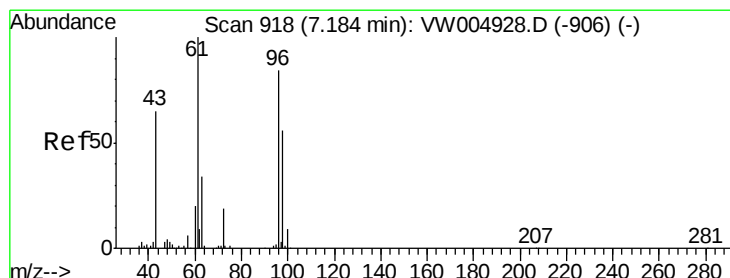
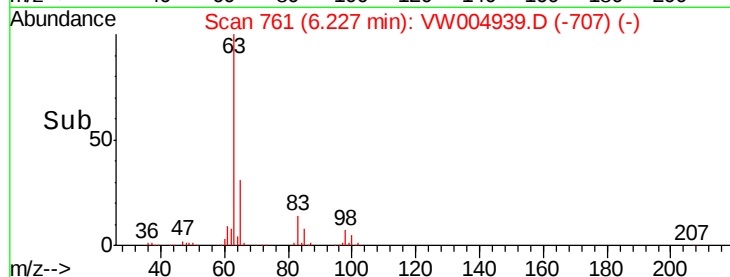
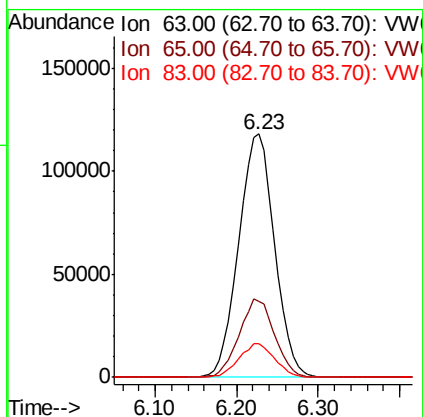
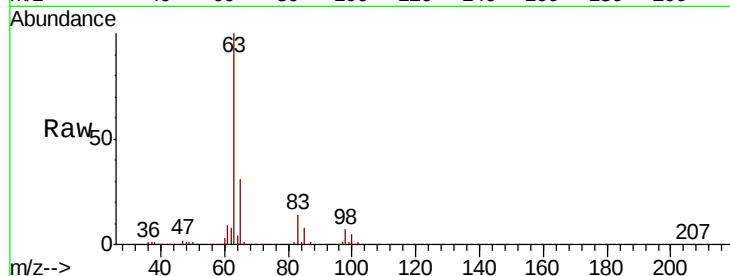




#19
 1,1-Dichloroethane
 Concen: 24.305 ug/L
 RT: 6.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VW004939.D
 Acq: 24 Aug 2018 16:47

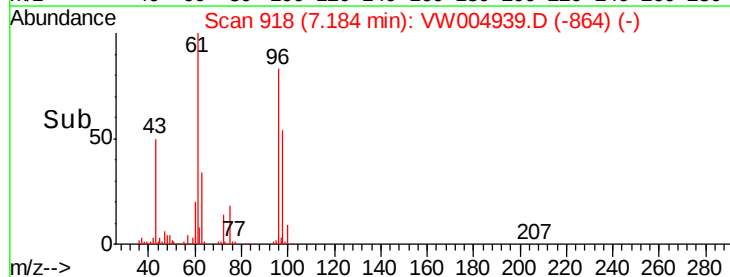
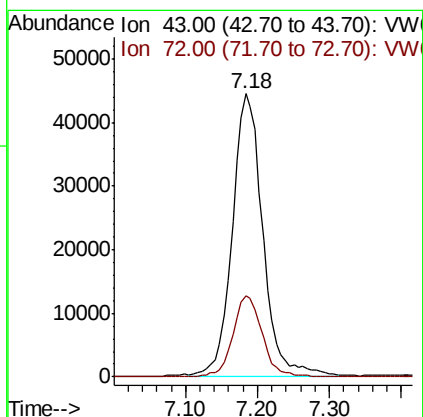
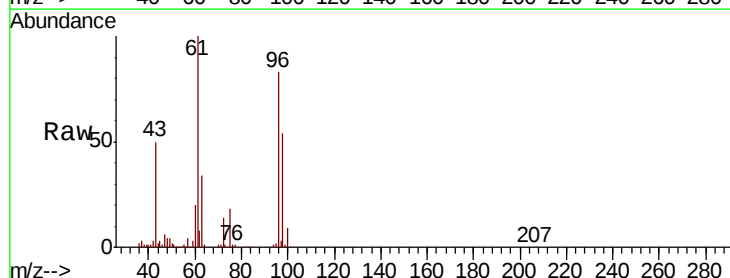
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB83

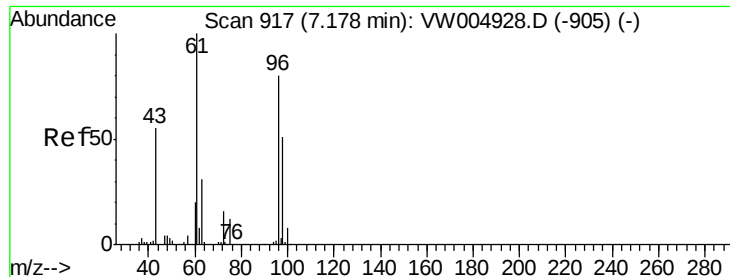
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.1	20.5	38.1
83	13.8	8.8	16.4



#21
 2-Butanone
 Concen: 42.775 ug/L
 RT: 7.18 min Scan# 918
 Delta R.T. -0.00 min
 Lab File: VW004939.D
 Acq: 24 Aug 2018 16:47

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.7	14.2	42.8



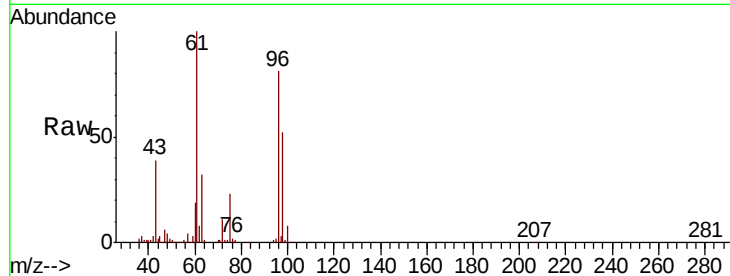


#22

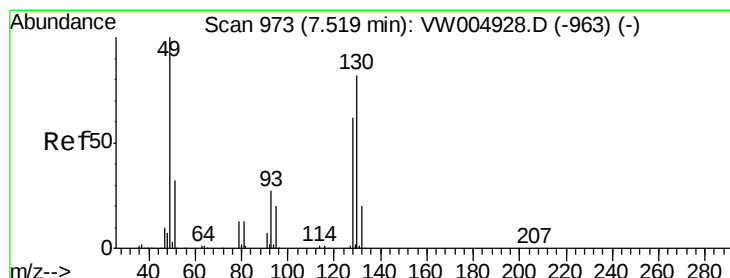
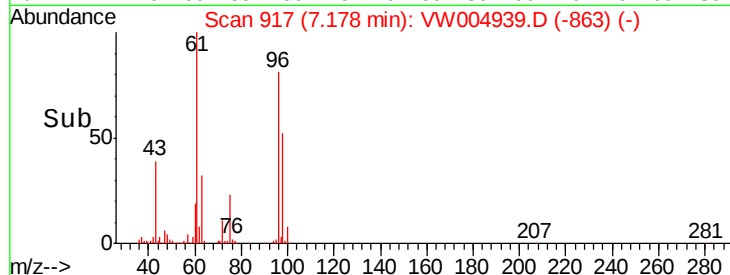
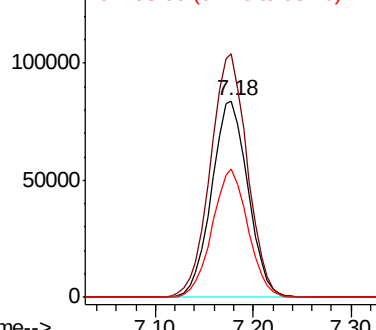
cis-1,2-Dichloroethene
 Concen: 24.746 ug/L
 RT: 7.18 min Scan# 917
 Delta R.T. -0.00 min
 Lab File: VW004939.D
 Acq: 24 Aug 2018 16:47

Instrument :
 MSVOA_W
 ClientSampleId :
 BFB83

Tgt Ion: 96 Resp: 217113
 Ion Ratio Lower Upper
 96 100
 61 123.9 89.7 166.7
 98 65.0 45.0 83.6



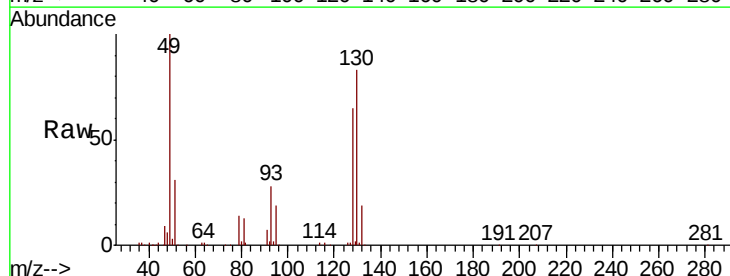
Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW



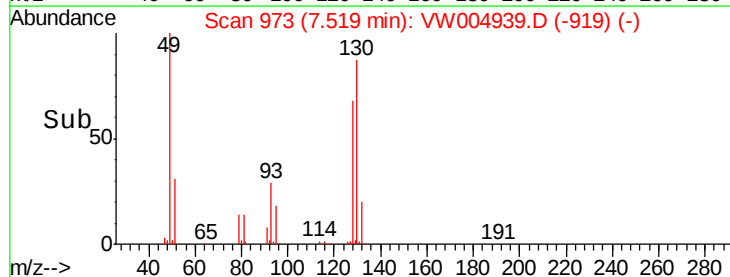
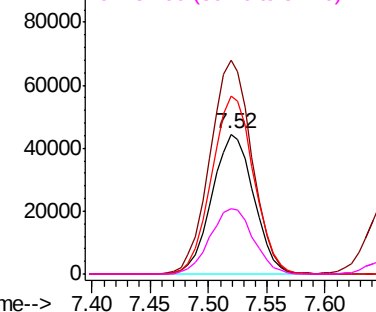
#23

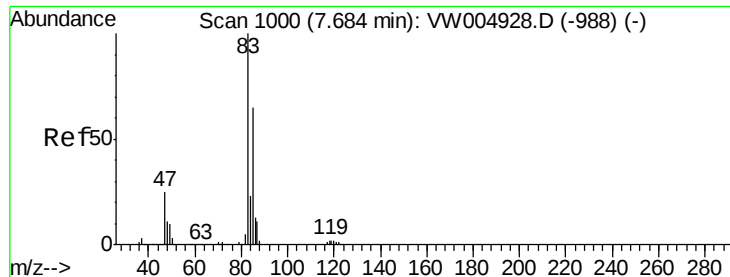
Bromochloromethane
 Concen: 23.900 ug/L
 RT: 7.52 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VW004939.D
 Acq: 24 Aug 2018 16:47

Tgt Ion: 128 Resp: 110727
 Ion Ratio Lower Upper
 128 100
 49 152.9 111.3 206.7
 130 127.6 90.2 167.6
 51 46.9 39.3 58.9



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

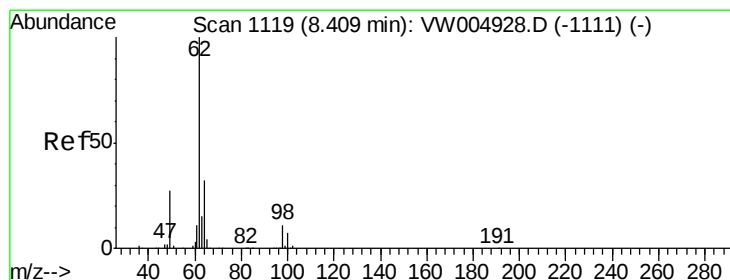
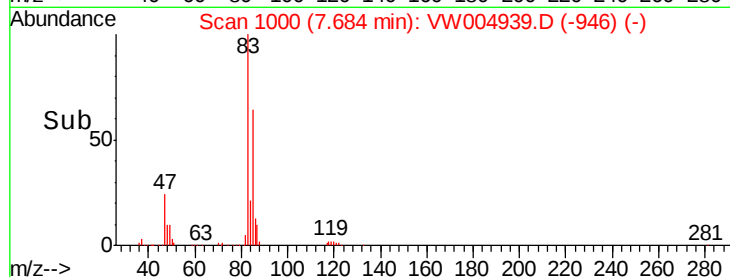
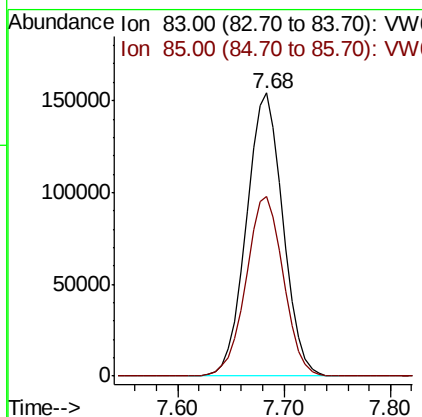
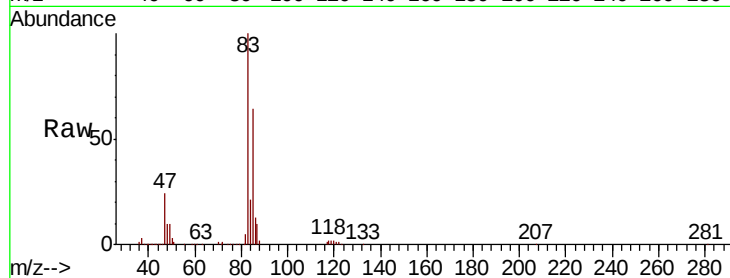




#25
Chloroform
Concen: 24.897 ug/L
RT: 7.68 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

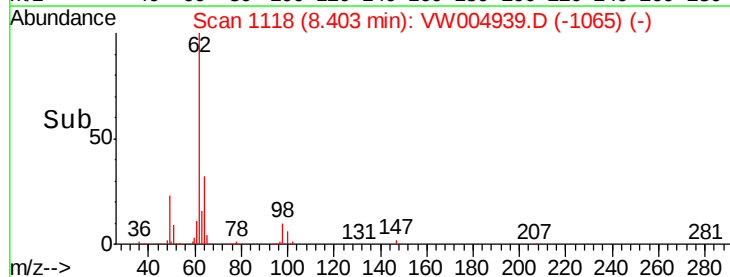
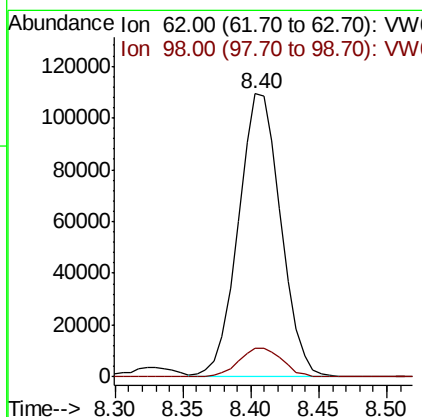
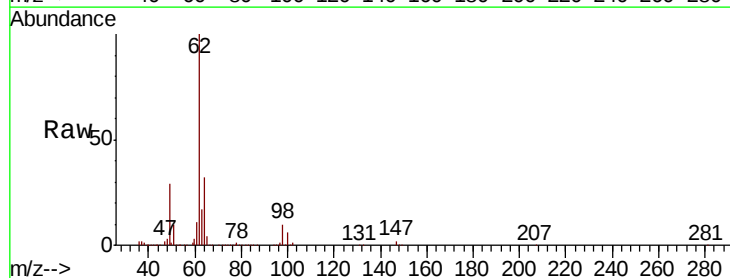
Instrument :
MSVOA_W
ClientSampleId :
BFB83

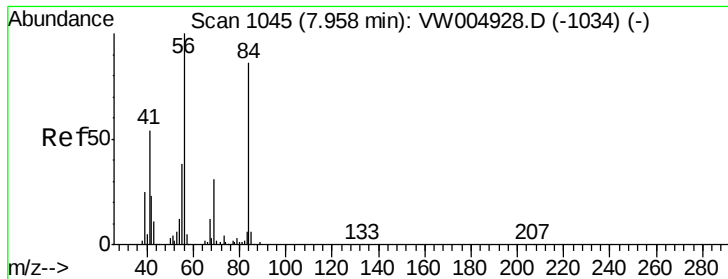
Tgt Ion: 83 Resp: 370342
Ion Ratio Lower Upper
83 100
85 65.0 46.3 85.9



#27
1,2-Dichloroethane
Concen: 24.482 ug/L
RT: 8.40 min Scan# 1118
Delta R.T. -0.01 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

Tgt Ion: 62 Resp: 238698
Ion Ratio Lower Upper
62 100
98 10.2 8.0 12.0

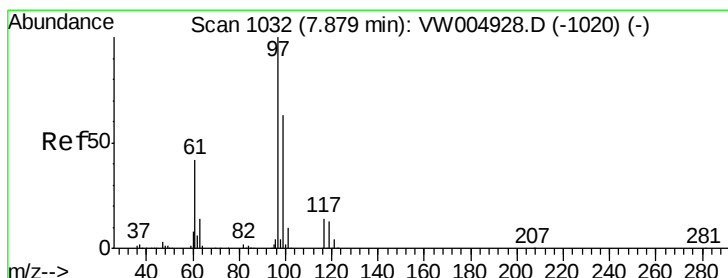
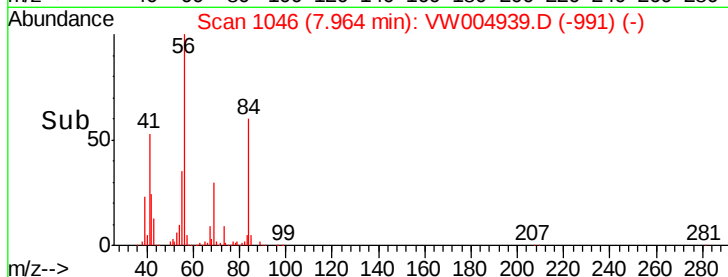
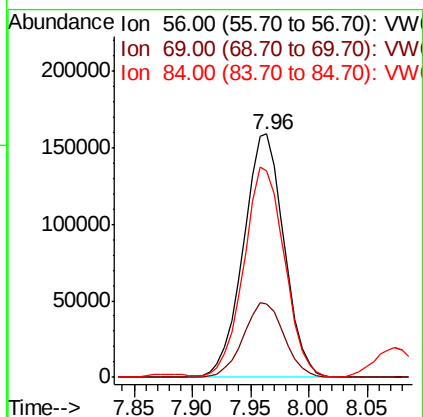
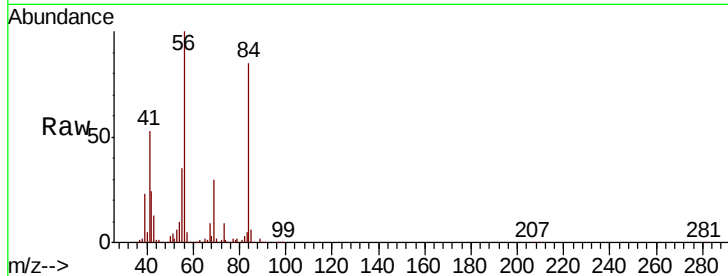




#30
Cyclohexane
Concen: 26.503 ug/L
RT: 7.96 min Scan# 1046
Delta R.T. 0.01 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

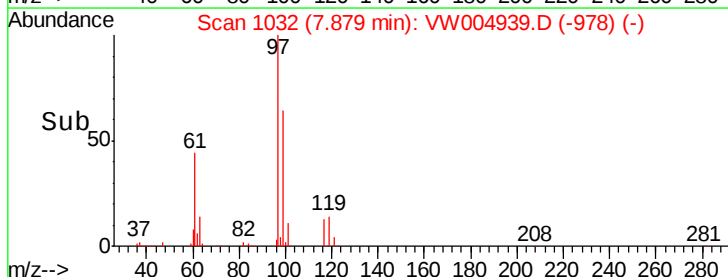
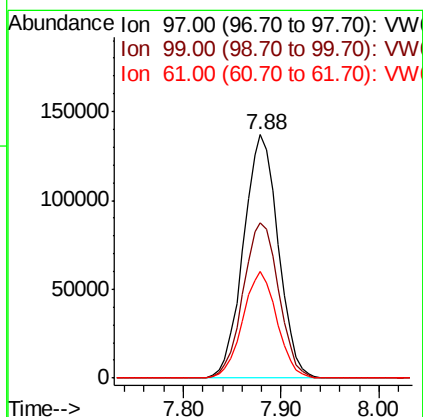
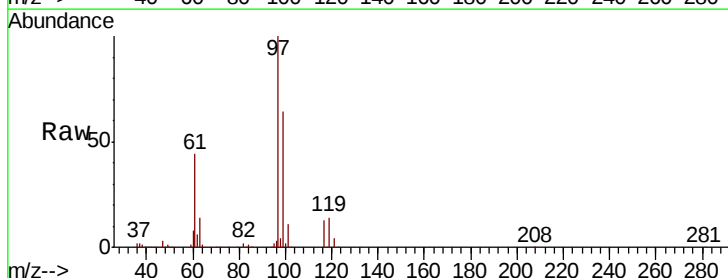
Instrument :
MSVOA_W
ClientSampleId :
BFB83

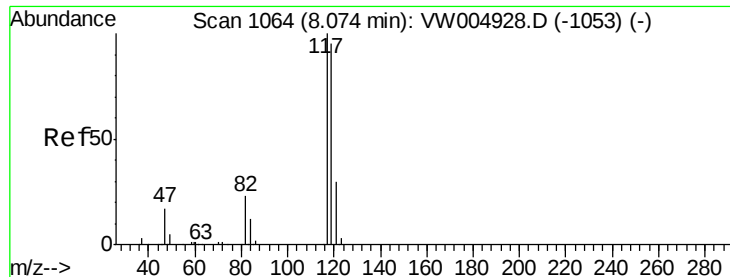
Tgt Ion: 56 Resp: 387389
Ion Ratio Lower Upper
56 100
69 30.9 24.1 36.1
84 86.6 67.7 101.5



#31
1,1,1-Trichloroethane
Concen: 25.500 ug/L
RT: 7.88 min Scan# 1032
Delta R.T. -0.00 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

Tgt Ion: 97 Resp: 337250
Ion Ratio Lower Upper
97 100
99 65.2 51.2 76.8
61 43.1 34.9 52.3





#32

Carbon tetrachloride

Concen: 25.942 ug/L

RT: 8.07 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

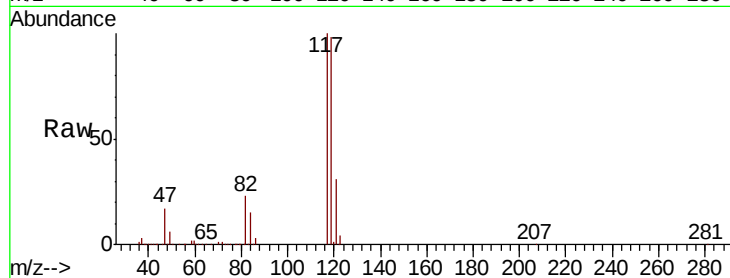
BFB83

Tgt Ion:117 Resp: 306880

Ion Ratio Lower Upper

117 100

119 96.7 78.2 117.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

150000

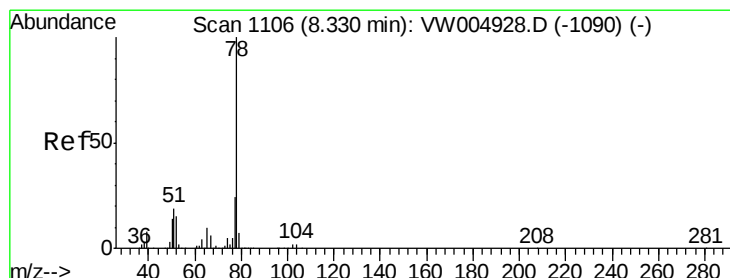
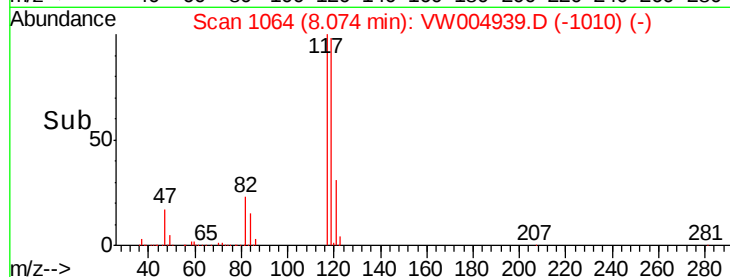
100000

50000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 26.326 ug/L

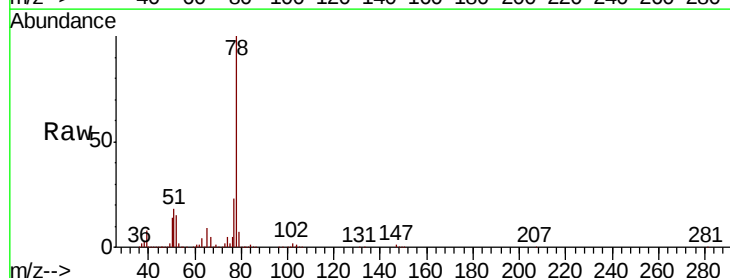
RT: 8.33 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Tgt Ion: 78 Resp: 1030717



Abundance Ion 78.00 (77.70 to 78.70): VW

8.33

500000

400000

300000

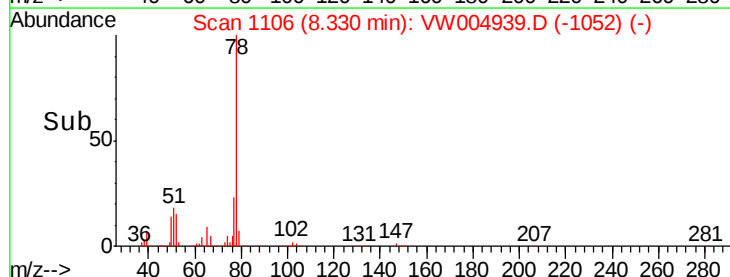
200000

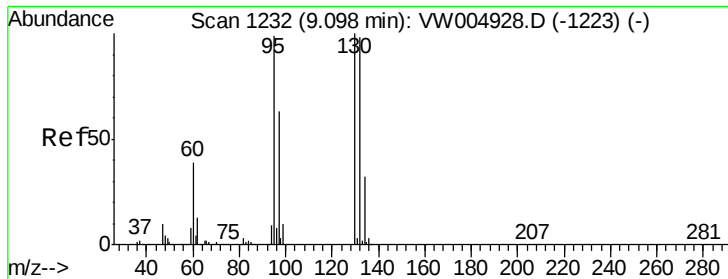
100000

0

8.20 8.30 8.40 8.50

Time-->

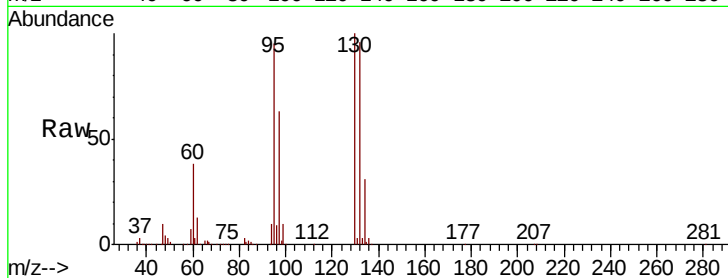




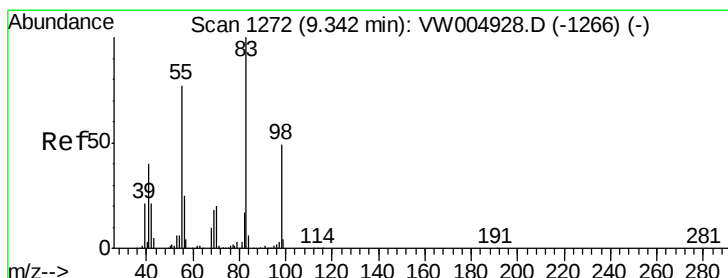
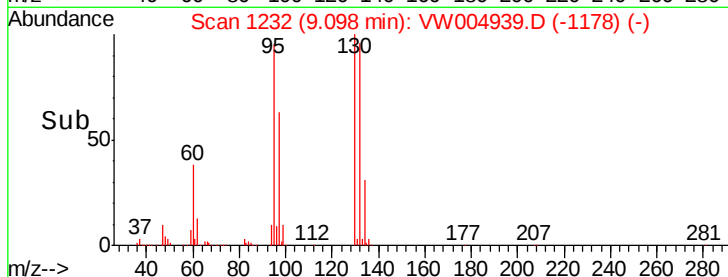
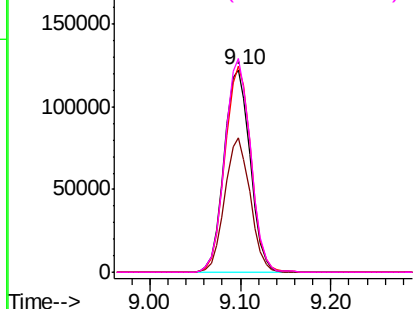
#35
 Trichloroethene
 Concen: 25.192 ug/L
 RT: 9.10 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VW004939.D
 Acq: 24 Aug 2018 16:47

Instrument :
 MSVOA_W
 ClientSampleId :
 BFB83

Tgt Ion:	95	Resp:	245254
Ion	Ratio	Lower	Upper
95	100		
97	64.9	45.9	85.3
132	101.0	69.2	128.4
130	103.6	72.7	135.1

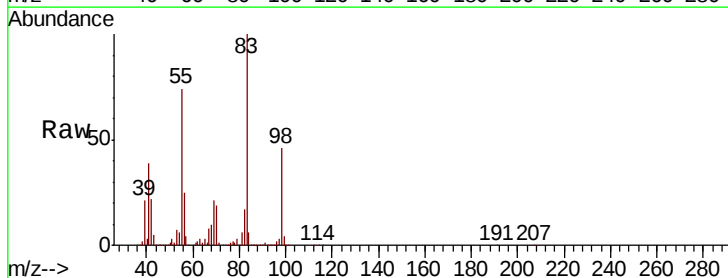


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

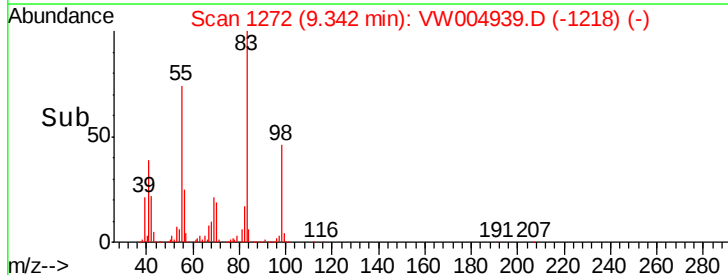
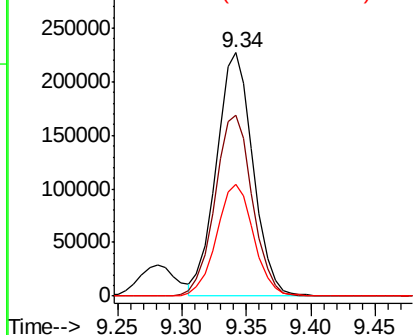


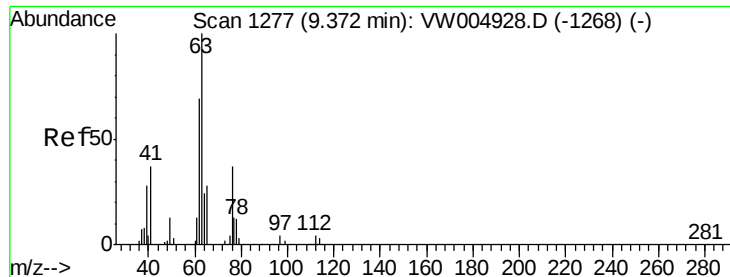
#36
 Methylcyclohexane
 Concen: 25.035 ug/L
 RT: 9.34 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VW004939.D
 Acq: 24 Aug 2018 16:47

Tgt Ion:	83	Resp:	450806
Ion	Ratio	Lower	Upper
83	100		
55	76.3	61.1	91.7
98	46.6	37.0	55.4



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





#40

1,2-Dichloropropane

Concen: 25.686 ug/L

RT: 9.37 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

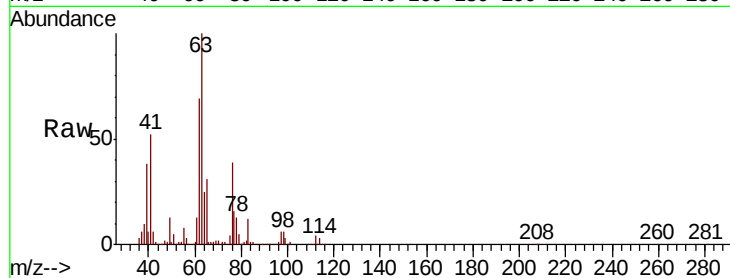
BFB83

Tgt Ion: 63 Resp: 247381

Ion Ratio Lower Upper

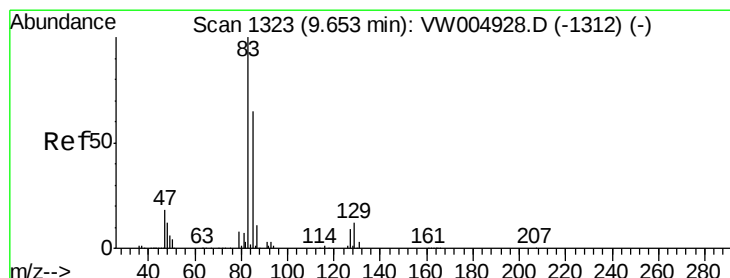
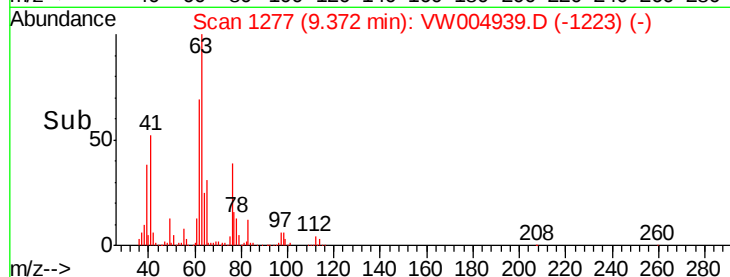
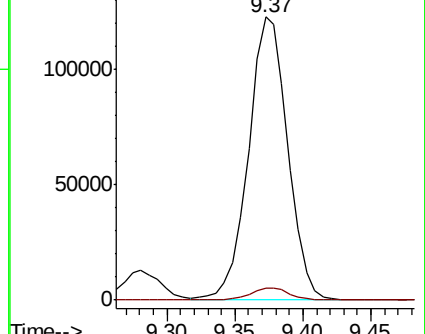
63 100

112 4.1 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 26.038 ug/L

RT: 9.65 min Scan# 1322

Delta R.T. -0.01 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

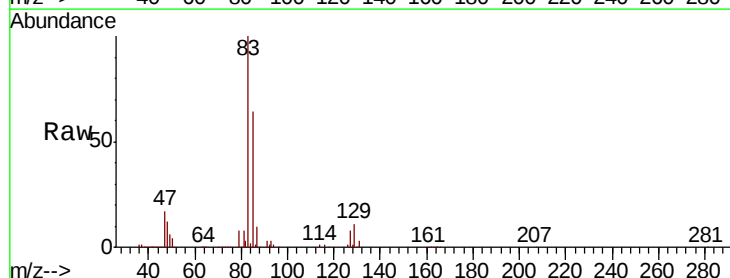
Tgt Ion: 83 Resp: 276321

Ion Ratio Lower Upper

83 100

85 63.6 43.6 81.0

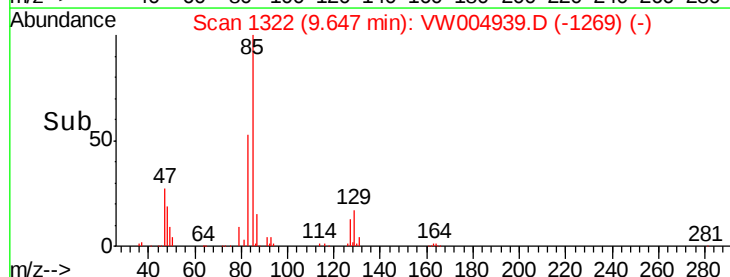
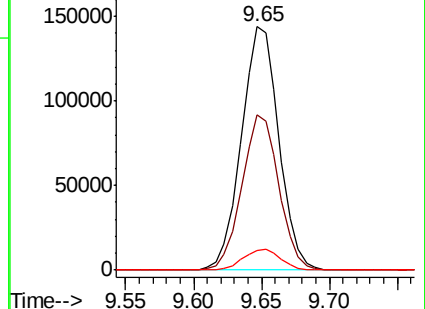
127 8.2 7.0 10.6

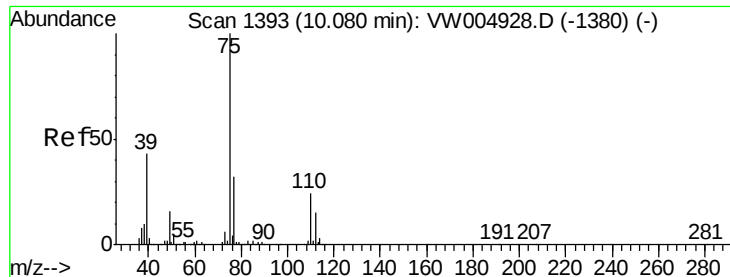


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 25.981 ug/L

RT: 10.08 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

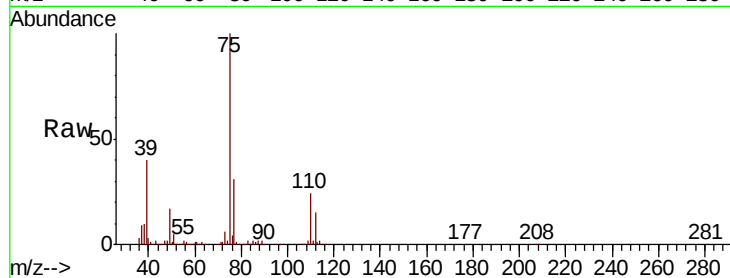
BFB83

Tgt Ion: 75 Resp: 347337

Ion Ratio Lower Upper

75 100

77 31.0 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.08

200000

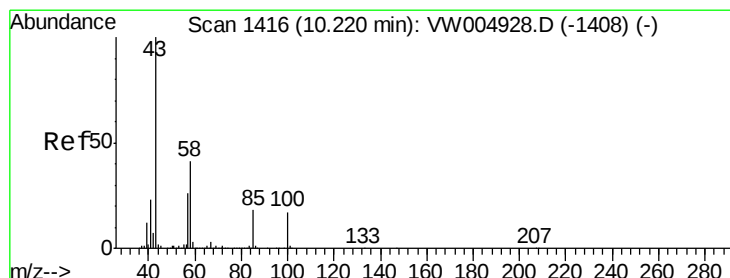
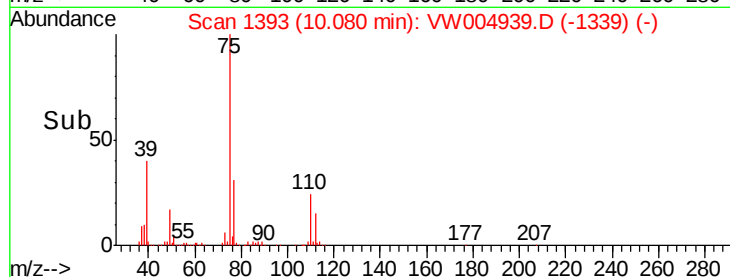
150000

100000

50000

0

Time--> 9.90 10.00 10.10 10.20



#43

4-Methyl-2-pentanone

Concen: 44.792 ug/L

RT: 10.21 min Scan# 1415

Delta R.T. -0.01 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

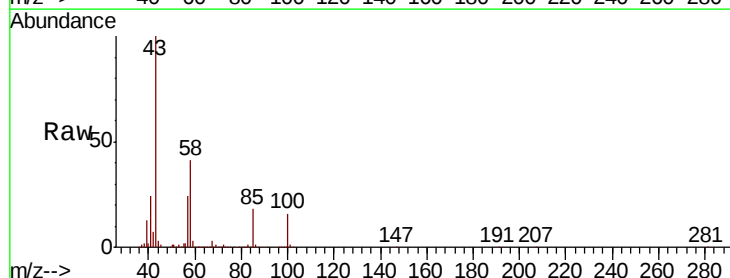
Tgt Ion: 43 Resp: 318449

Ion Ratio Lower Upper

43 100

58 41.0 32.1 48.1

100 16.1 12.6 18.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.21

400000

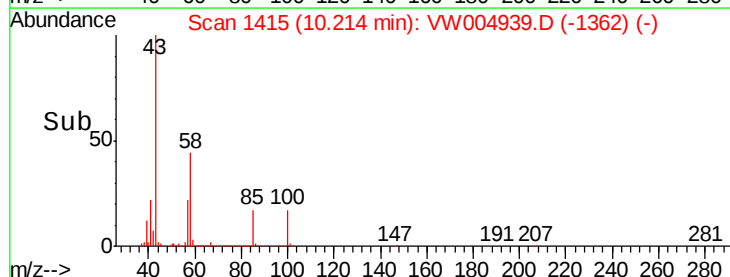
300000

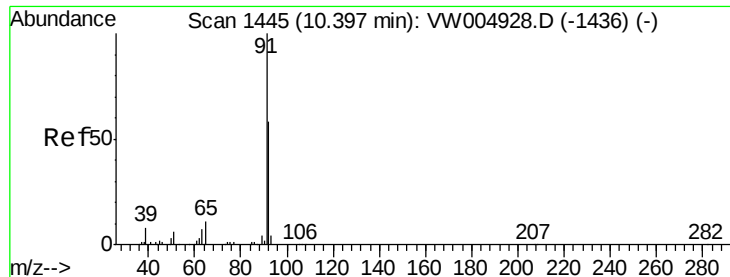
200000

100000

0

Time--> 10.10 10.20 10.30





#44

Toluene

Concen: 26.185 ug/L

RT: 10.40 min Scan# 1445

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

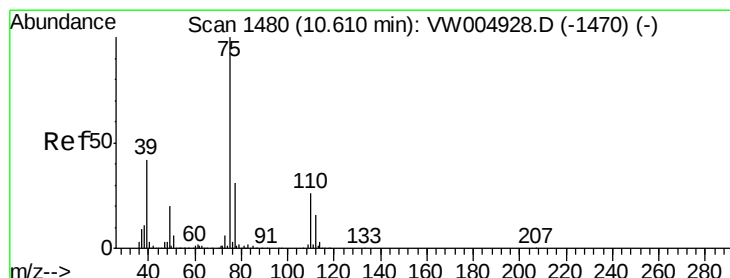
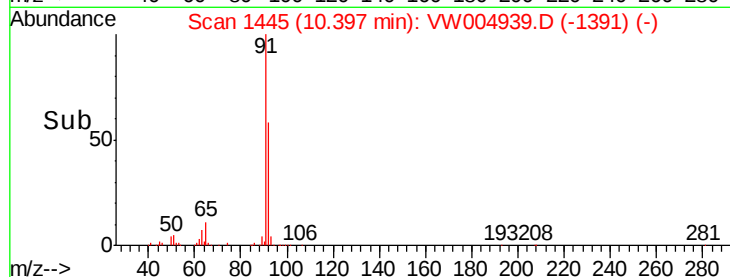
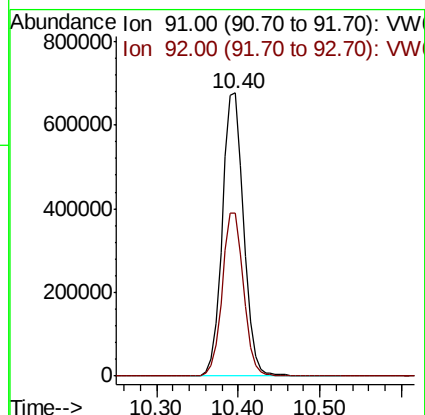
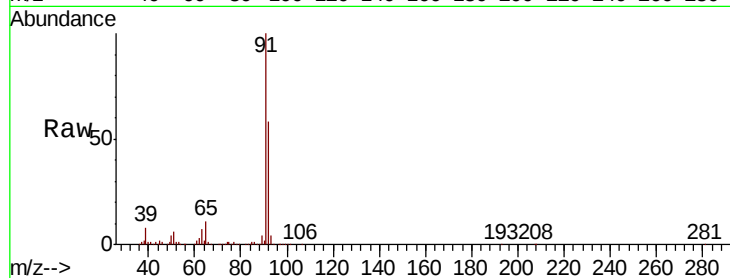
BFB83

Tgt Ion: 91 Resp: 1231171

Ion Ratio Lower Upper

91 100

92 57.7 40.6 75.4



#45

trans-1,3-Dichloropropene

Concen: 24.866 ug/L

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW004939.D

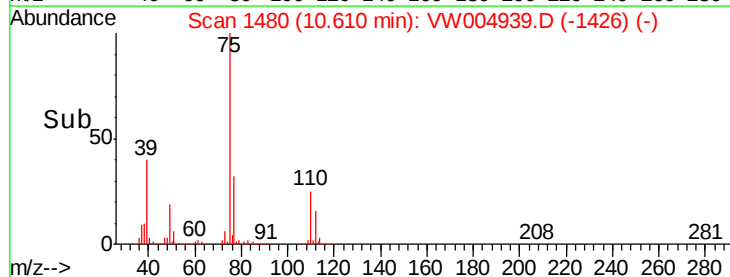
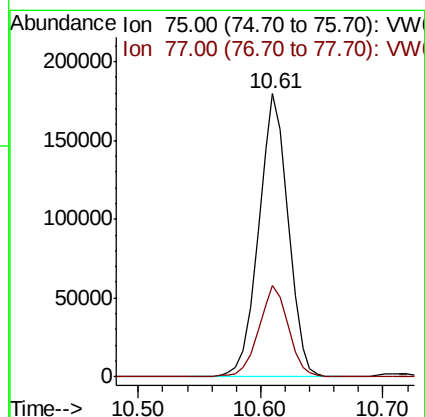
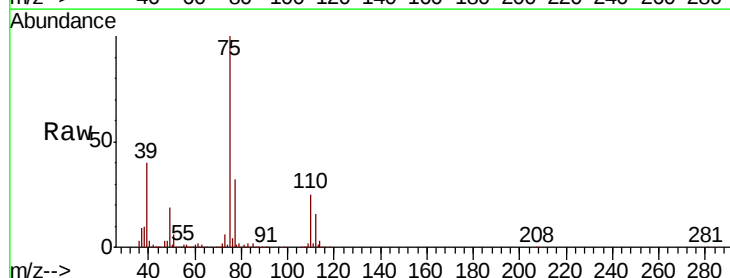
Acq: 24 Aug 2018 16:47

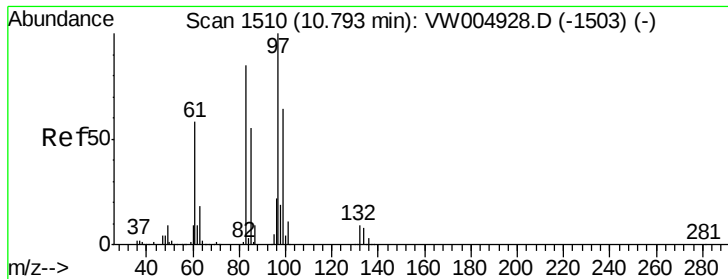
Tgt Ion: 75 Resp: 301503

Ion Ratio Lower Upper

75 100

77 32.2 22.2 41.2





#46

1,1,2-Trichloroethane

Concen: 24.396 ug/L

RT: 10.79 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

BFB83

Tgt Ion: 97 Resp: 183390

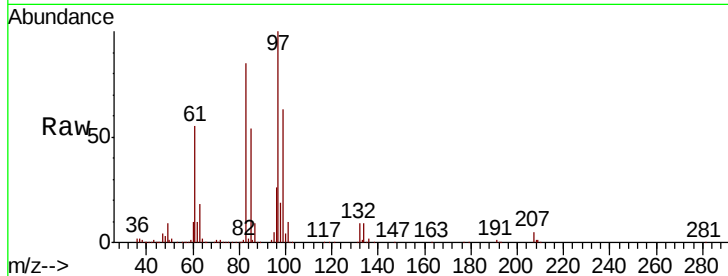
Ion Ratio Lower Upper

97 100

83 84.9 59.6 110.8

85 53.8 38.1 70.9

99 63.2 43.8 81.3

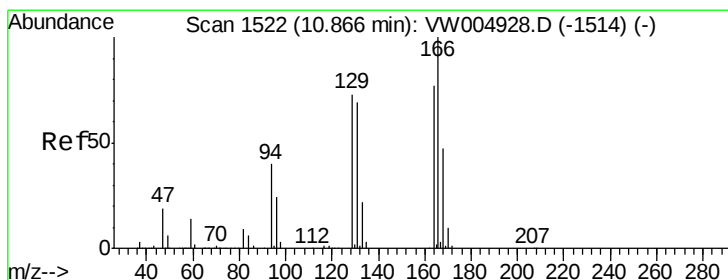
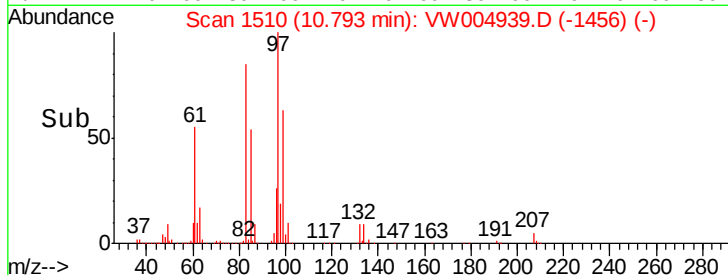
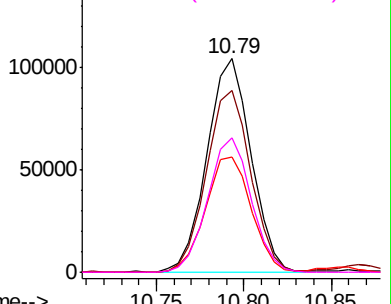


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 25.314 ug/L

RT: 10.87 min Scan# 1522

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Tgt Ion: 164 Resp: 241267

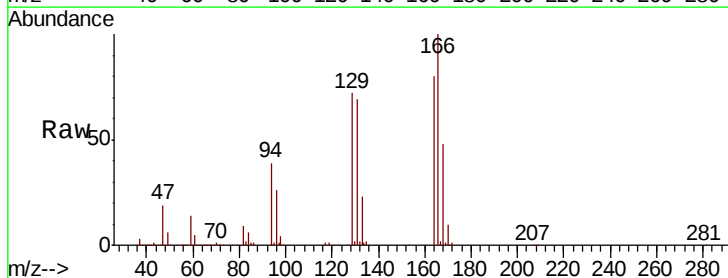
Ion Ratio Lower Upper

164 100

129 90.0 66.8 124.0

131 87.0 64.0 119.0

166 125.3 89.8 166.8

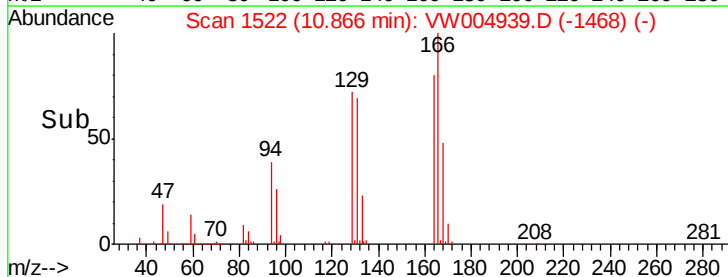
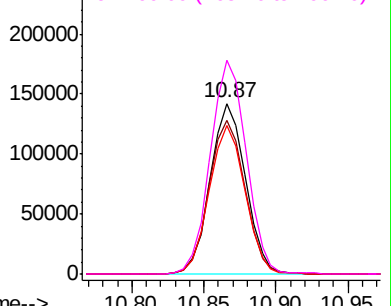


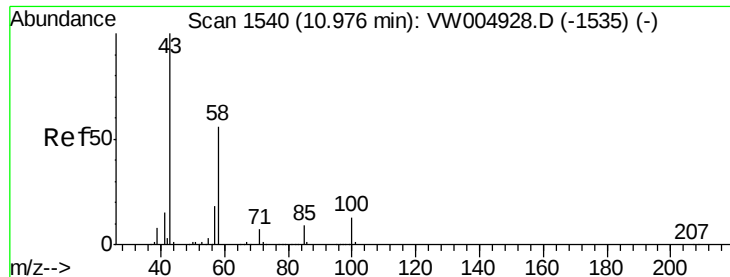
Abundance Ion 164.00 (163.70 to 164.70): V

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

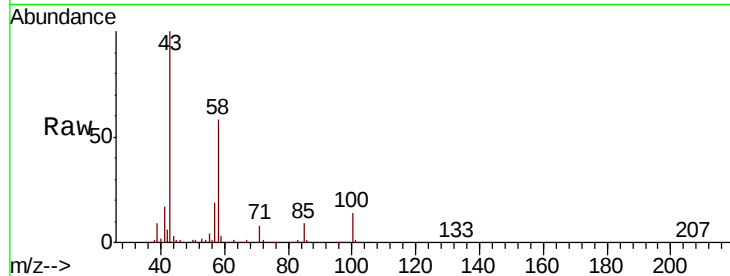




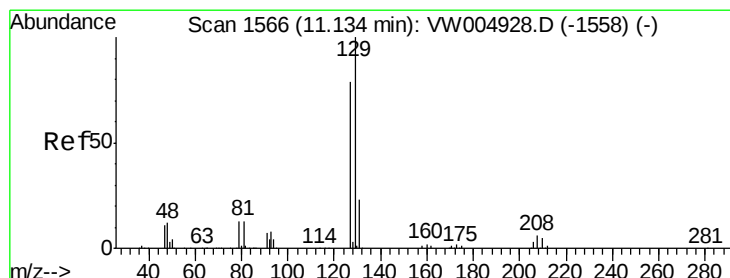
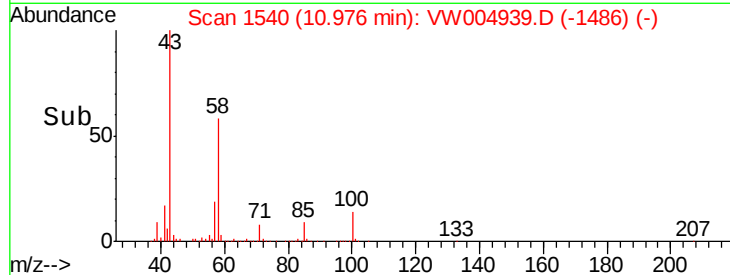
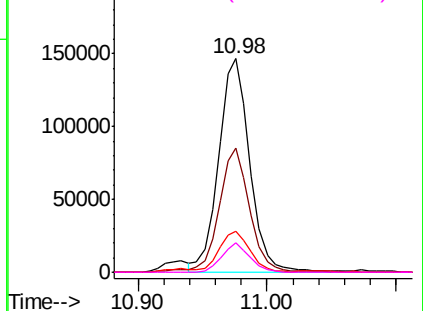
#49
2-Hexanone
Concen: 45.203 ug/L
RT: 10.98 min Scan# 1540
Delta R.T. -0.00 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

Instrument :
MSVOA_W
ClientSampleId :
BFB83

Tgt Ion: 43 Resp: 248352
Ion Ratio Lower Upper
43 100
58 55.8 44.6 67.0
57 19.0 15.4 23.2
100 12.5 9.6 14.4

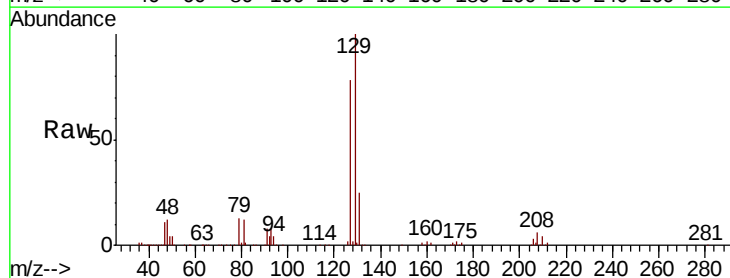


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW
Ion 57.00 (56.70 to 57.70): VW
Ion 100.00 (99.70 to 100.70): VW

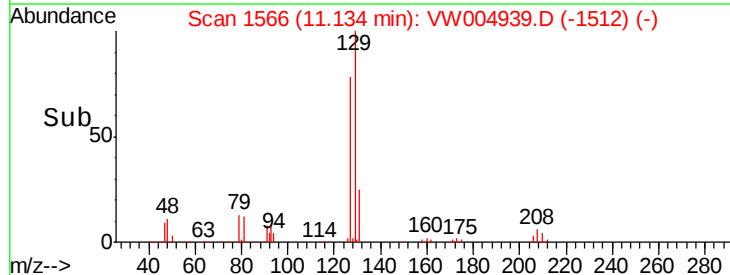
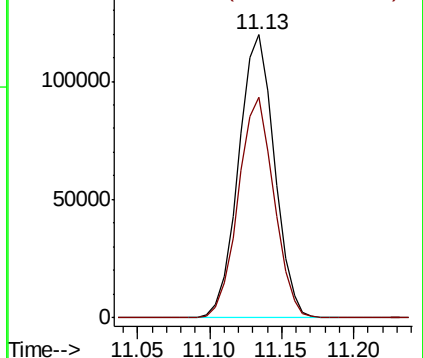


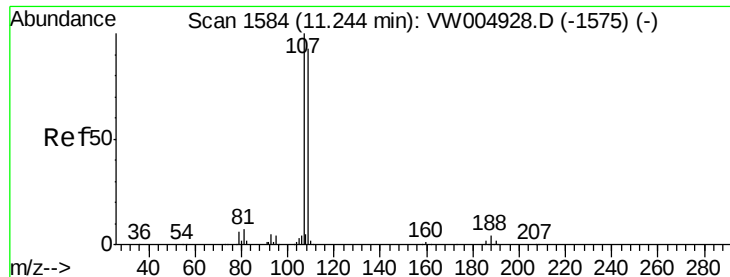
#50
Dibromochloromethane
Concen: 24.772 ug/L
RT: 11.13 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VW004939.D
Acq: 24 Aug 2018 16:47

Tgt Ion: 129 Resp: 206741
Ion Ratio Lower Upper
129 100
127 78.0 53.8 99.8



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





#51

1,2-Dibromoethane

Concen: 23.765 ug/L

RT: 11.24 min Scan# 1583

Delta R.T. -0.01 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

BFB83

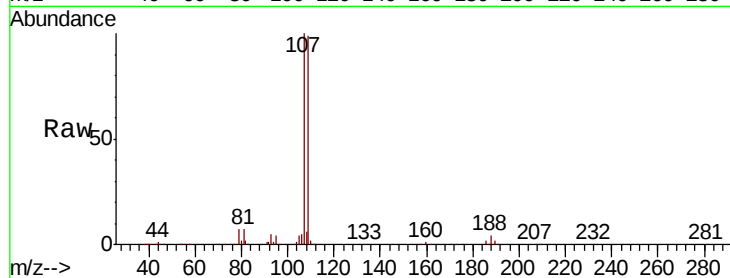
Tgt Ion:107 Resp: 175369

Ion Ratio Lower Upper

107 100

109 98.6 67.3 124.9

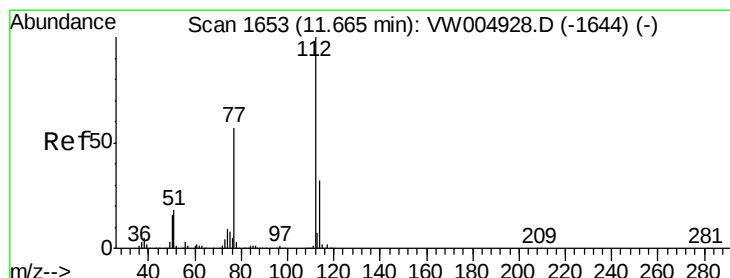
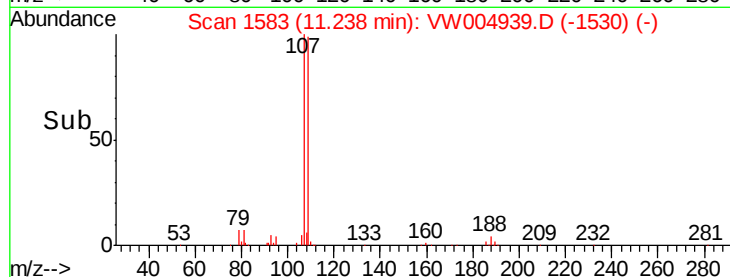
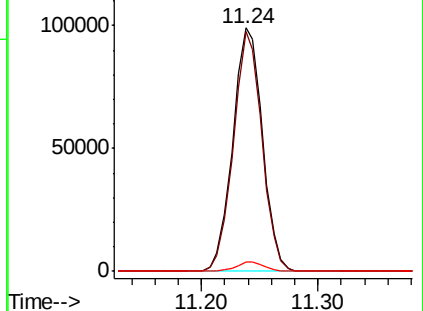
188 3.9 3.0 4.6



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: 25.476 ug/L

RT: 11.66 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

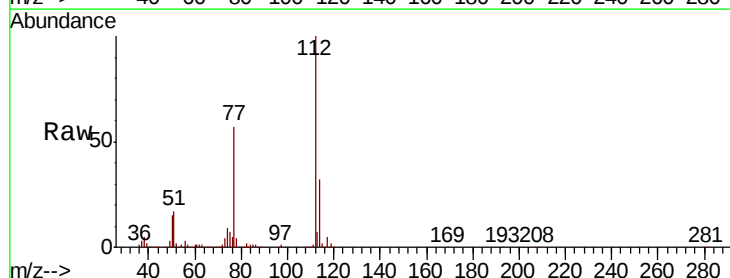
Tgt Ion:112 Resp: 795709

Ion Ratio Lower Upper

112 100

77 56.8 45.8 68.8

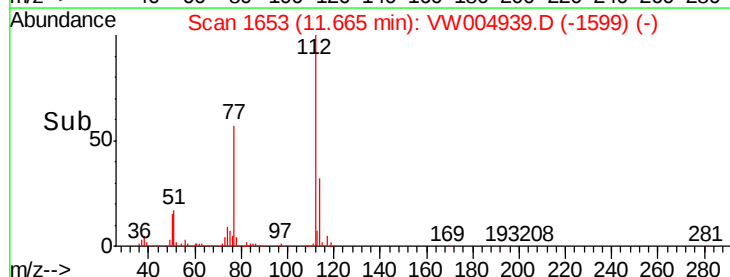
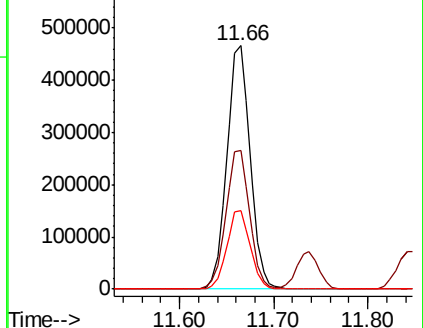
114 32.3 22.5 41.7

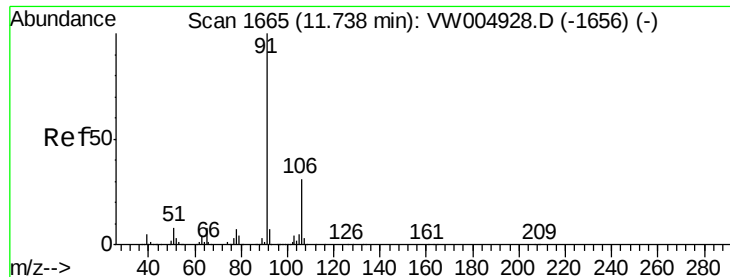


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 26.128 ug/L

RT: 11.74 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

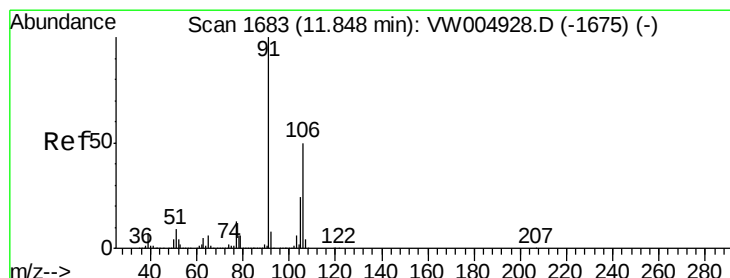
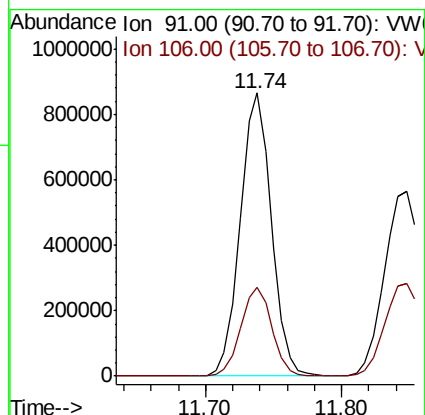
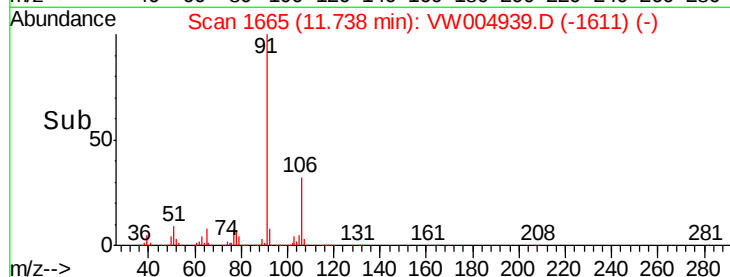
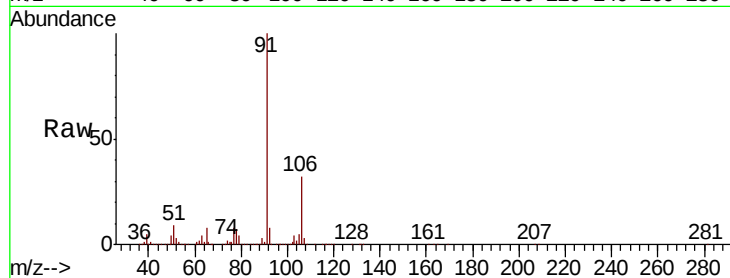
BFB83

Tgt Ion: 91 Resp: 1382372

Ion Ratio Lower Upper

91 100

106 31.6 21.6 40.2



#54

m,p-Xylene

Concen: 26.718 ug/L

RT: 11.85 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW004939.D

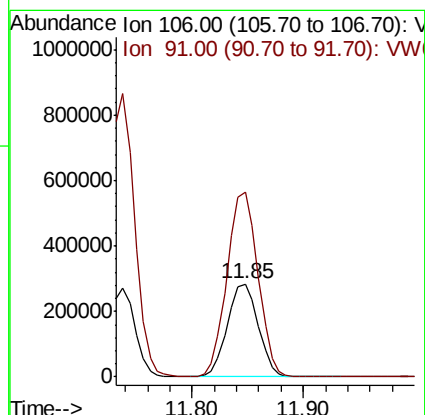
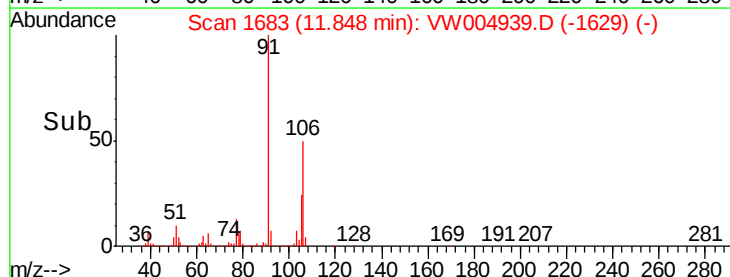
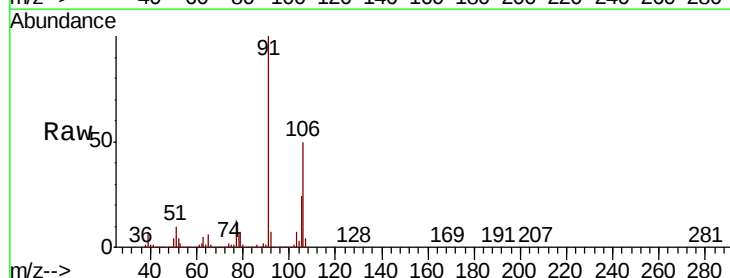
Acq: 24 Aug 2018 16:47

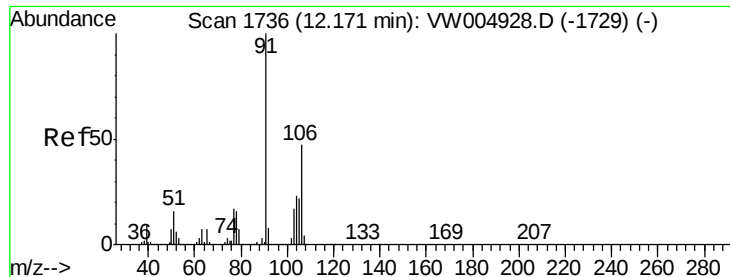
Tgt Ion: 106 Resp: 548379

Ion Ratio Lower Upper

106 100

91 198.4 141.4 262.6





#55

o-xylene

Concen: 26.780 ug/L

RT: 12.17 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

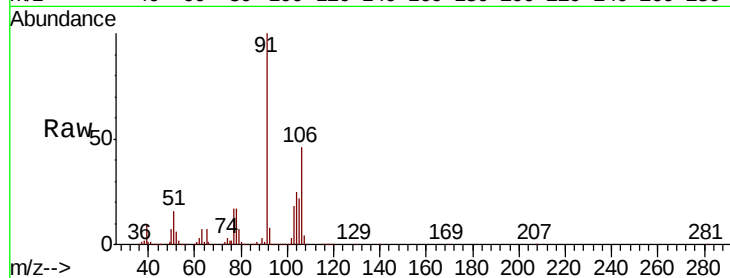
BFB83

Tgt Ion:106 Resp: 513568

Ion Ratio Lower Upper

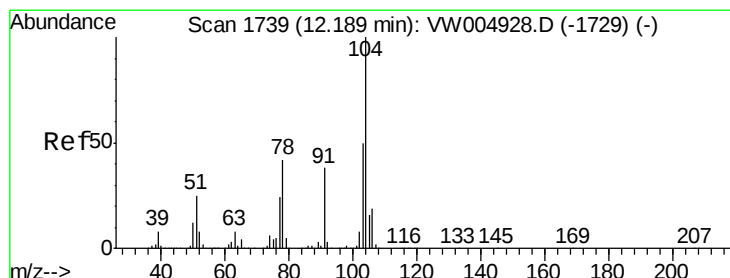
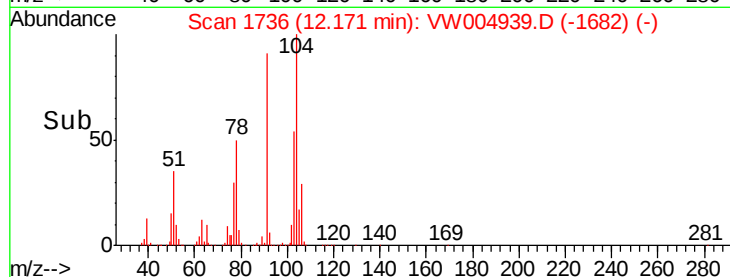
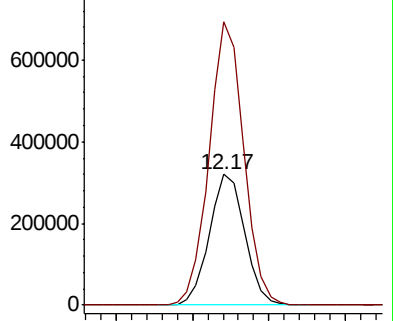
106 100

91 216.4 147.0 273.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 27.260 ug/L

RT: 12.19 min Scan# 1739

Delta R.T. -0.00 min

Lab File: VW004939.D

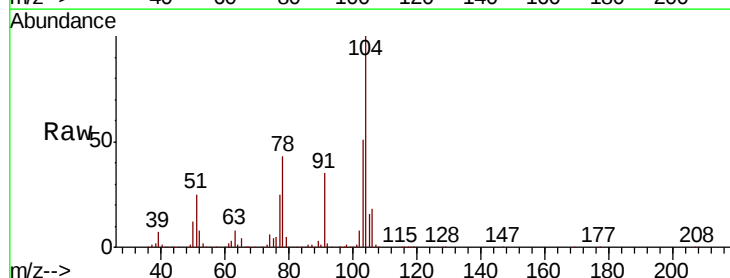
Acq: 24 Aug 2018 16:47

Tgt Ion:104 Resp: 898196

Ion Ratio Lower Upper

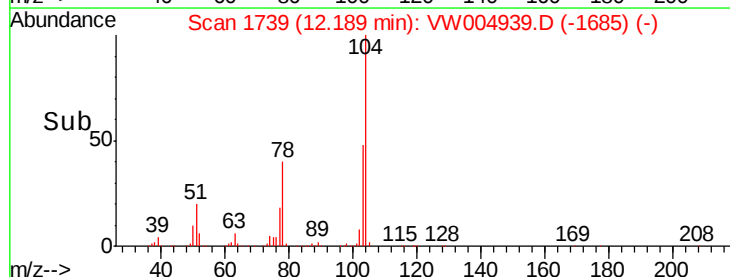
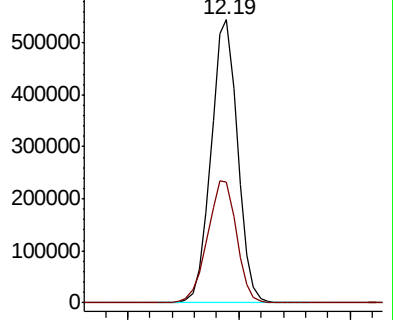
104 100

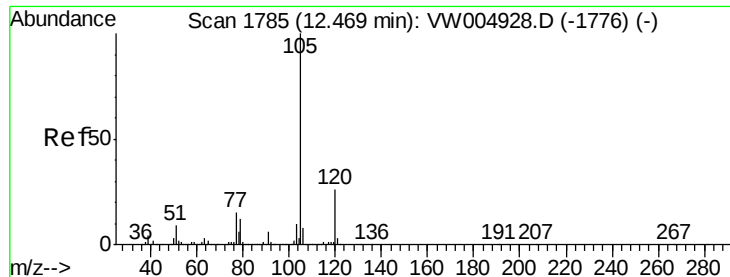
78 42.8 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.648 ug/L

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleID :

BFB83

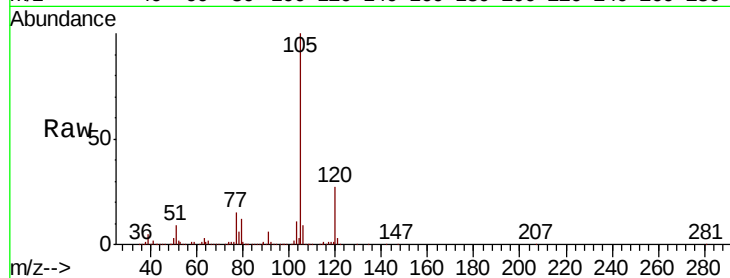
Tgt Ion: 105 Resp: 1365029

Ion Ratio Lower Upper

105 100

120 26.5 21.3 31.9

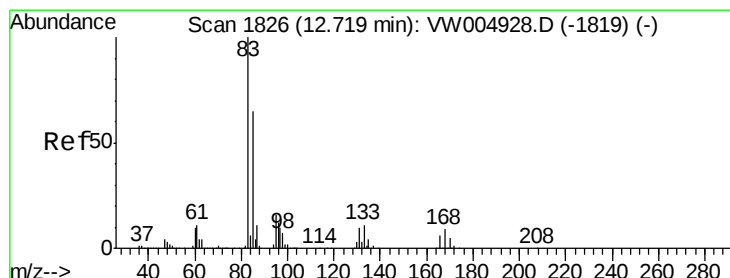
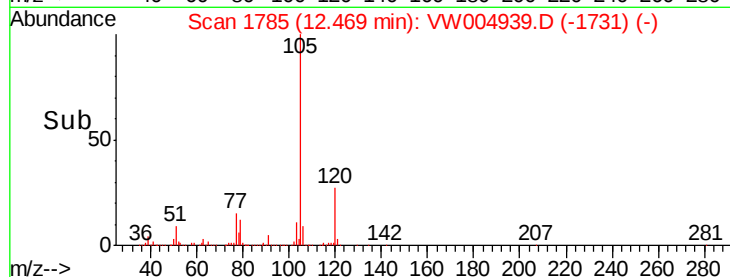
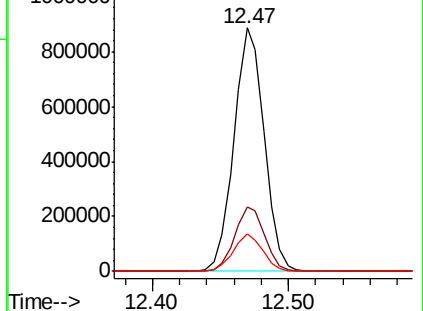
77 14.8 12.0 18.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 23.287 ug/L

RT: 12.72 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

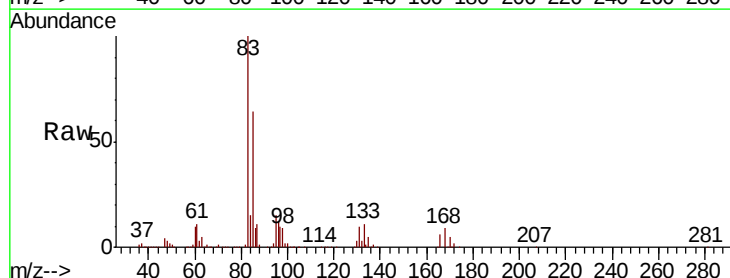
Tgt Ion: 83 Resp: 249490

Ion Ratio Lower Upper

83 100

85 63.8 46.3 85.9

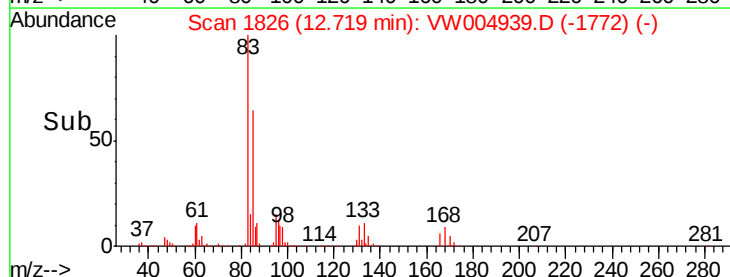
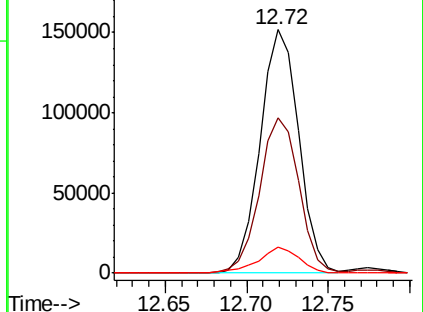
131 10.5 7.8 11.6

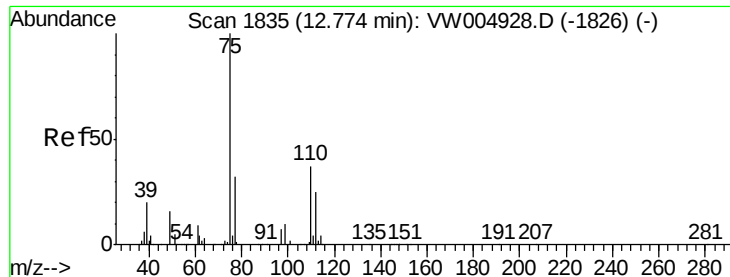


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.878 ug/L

RT: 12.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

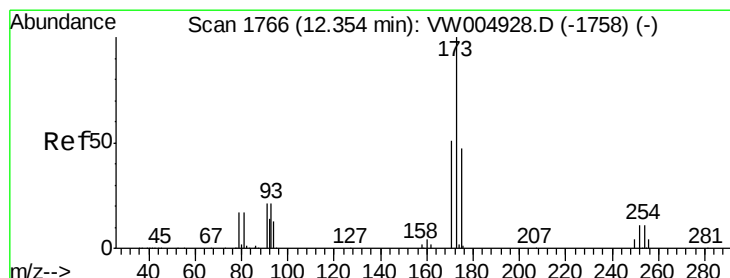
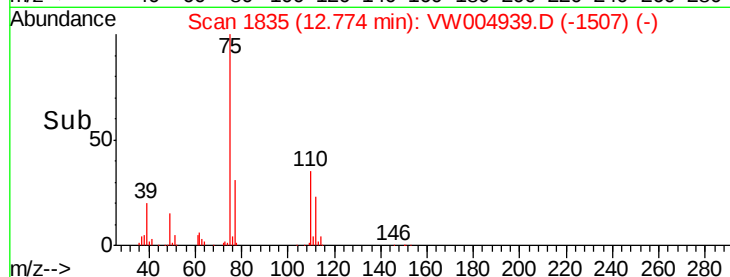
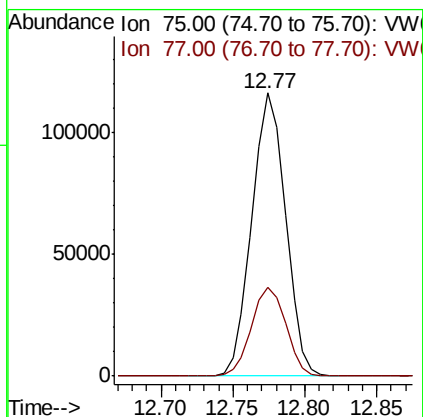
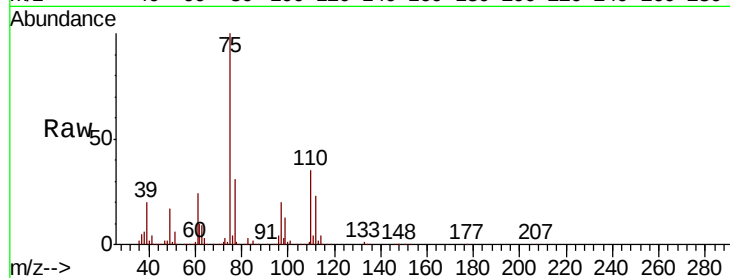
BFB83

Tgt Ion: 75 Resp: 188874

Ion Ratio Lower Upper

75 100

77 32.2 25.3 37.9



#62

Bromoform

Concen: 23.388 ug/L

RT: 12.35 min Scan# 1766

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

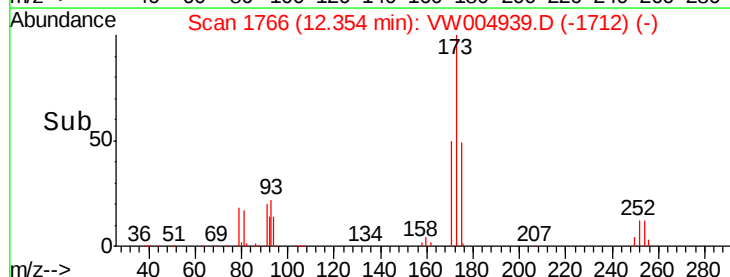
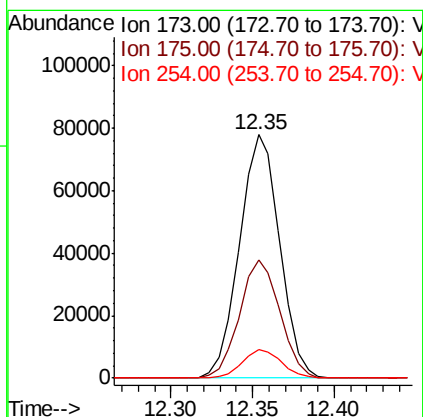
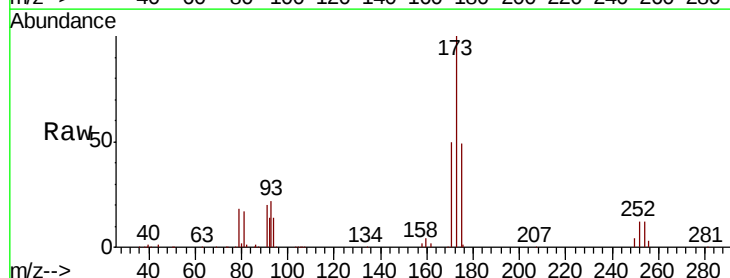
Tgt Ion: 173 Resp: 133491

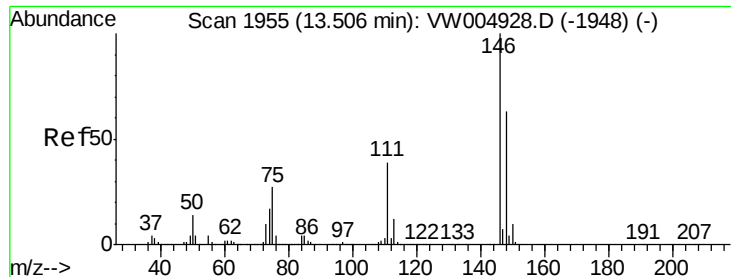
Ion Ratio Lower Upper

173 100

175 48.7 39.0 58.6

254 11.4 9.0 13.6





#63

1,3-Dichlorobenzene

Concen: 25.809 ug/L

RT: 13.51 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

BFB83

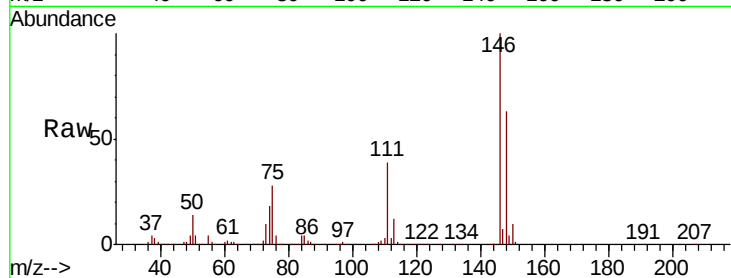
Tgt Ion:146 Resp: 640087

Ion Ratio Lower Upper

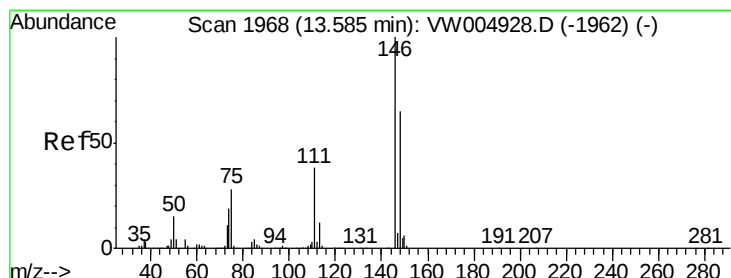
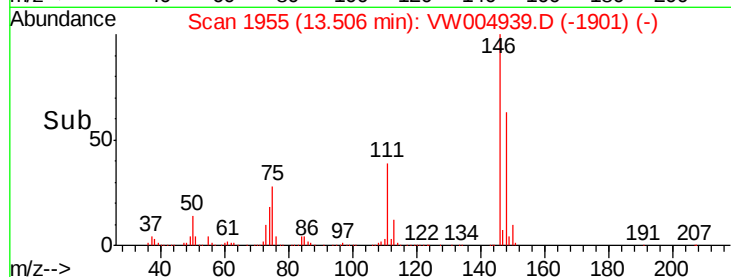
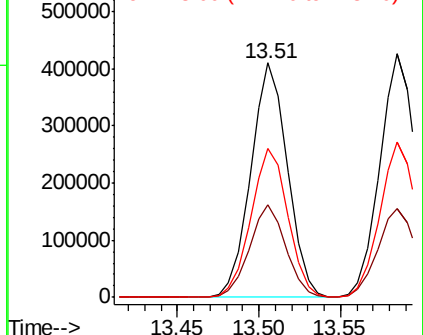
146 100

111 39.3 25.6 47.6

148 63.4 42.7 79.3



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 25.536 ug/L

RT: 13.59 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

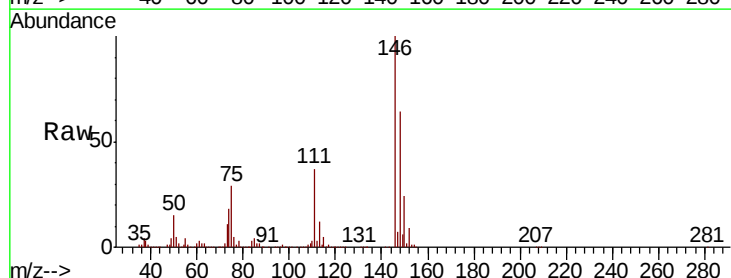
Tgt Ion:146 Resp: 663037

Ion Ratio Lower Upper

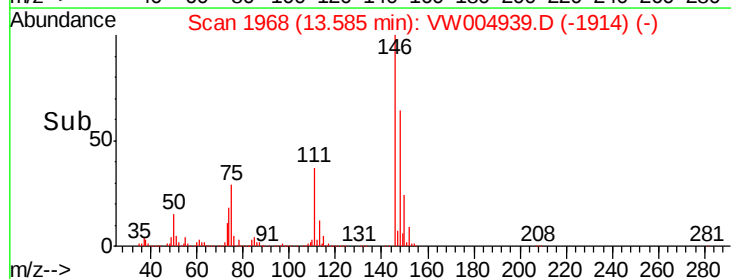
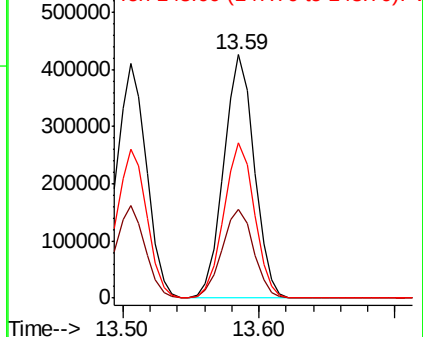
146 100

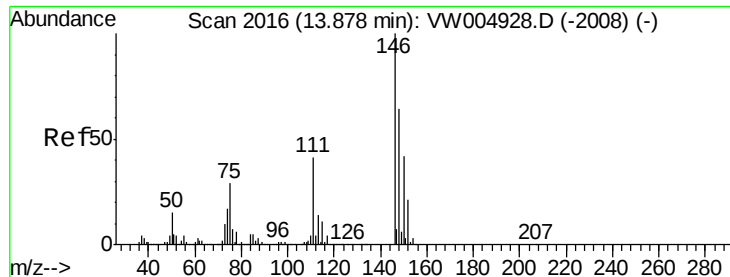
111 36.5 27.6 51.4

148 63.8 45.8 85.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 25.815 ug/L

RT: 13.88 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

BFB83

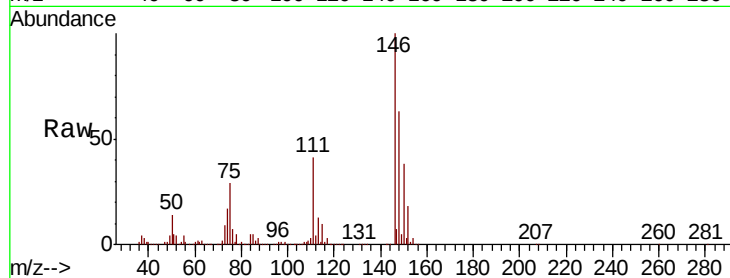
Tgt Ion:146 Resp: 613447

Ion Ratio Lower Upper

146 100

111 40.6 32.0 48.0

148 62.9 50.6 75.8

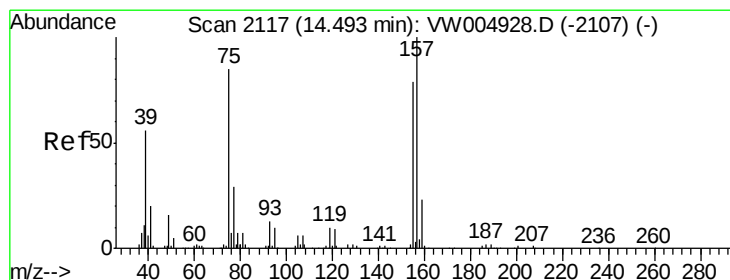
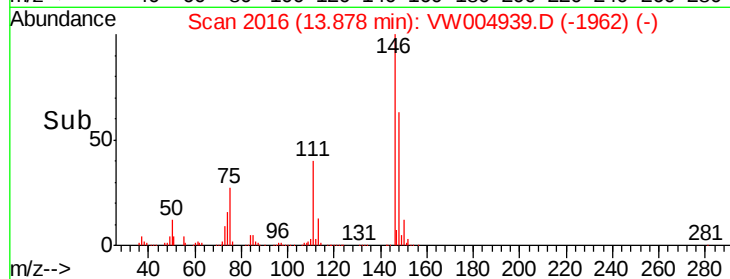
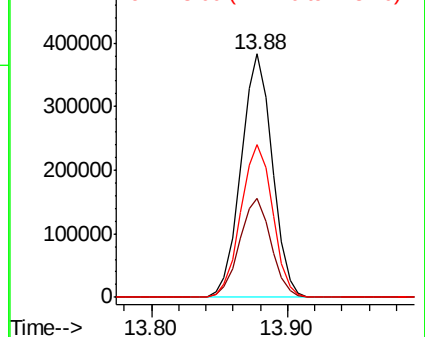


Abundance

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: 20.708 ug/L

RT: 14.49 min Scan# 2117

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

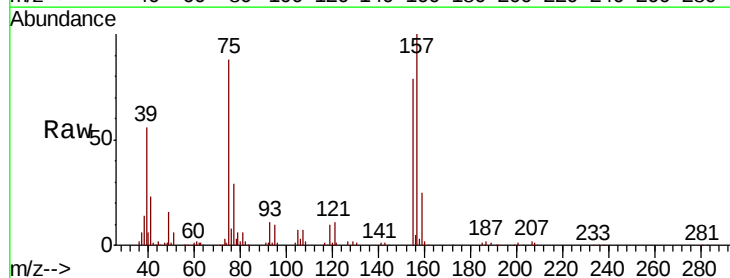
Tgt Ion: 75 Resp: 41730

Ion Ratio Lower Upper

75 100

157 113.7 90.7 136.1

155 90.3 69.5 104.3

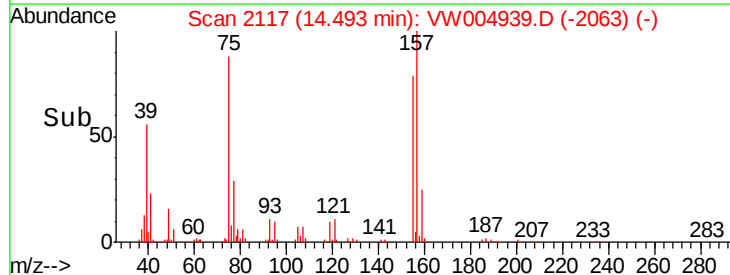
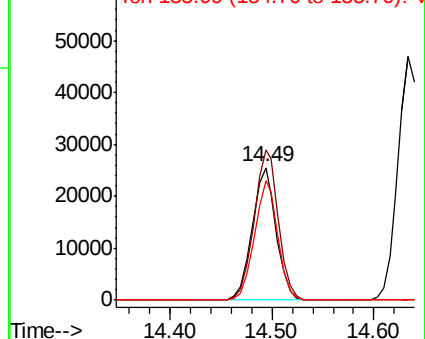


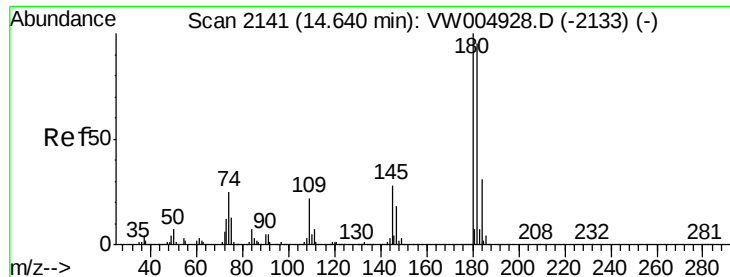
Abundance

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

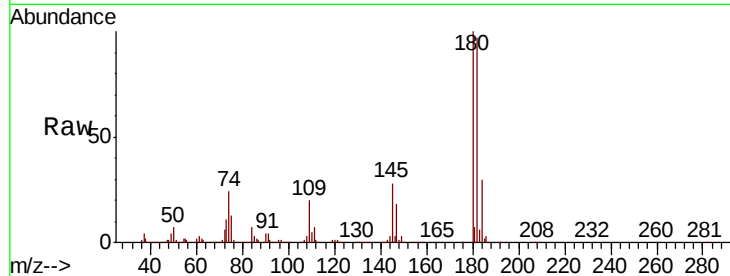




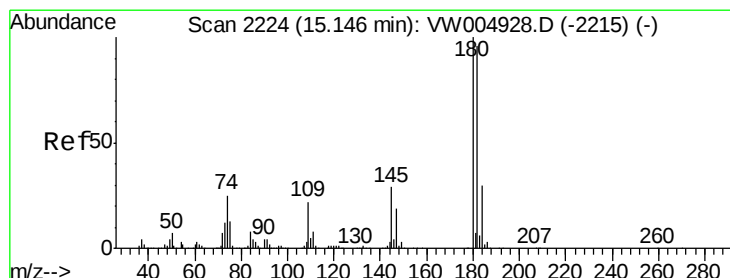
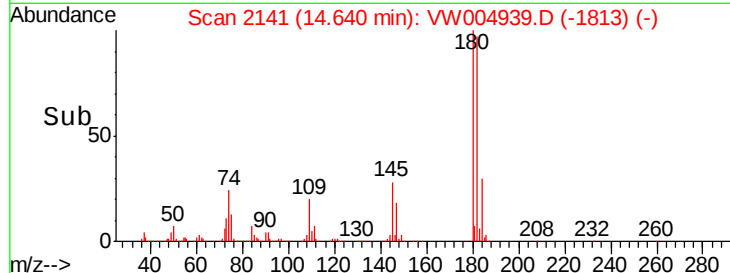
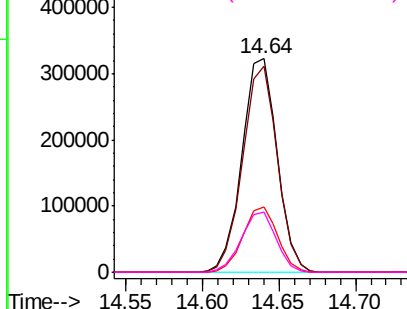
#67
 1,3,5-Trichlorobenzene
 Concen: 25.982 ug/L
 RT: 14.64 min Scan# 2141
 Delta R.T. -0.00 min
 Lab File: VW004939.D
 Acq: 24 Aug 2018 16:47

Instrument :
 MSVOA_W
 ClientSampleID :
 BFB83

Tgt Ion:	180	Resp:	515598
Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.0	114.0
184	30.2	24.3	36.5
145	28.0	23.0	34.6

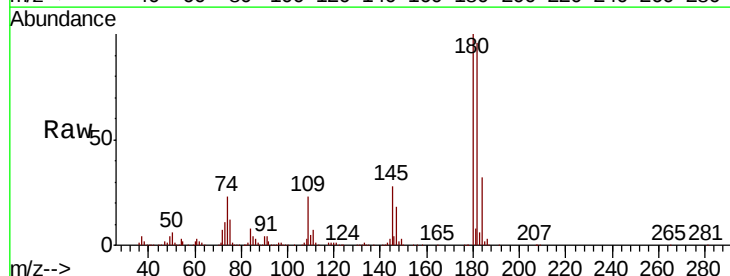


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

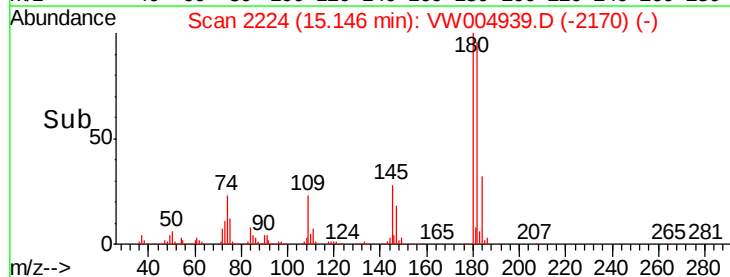
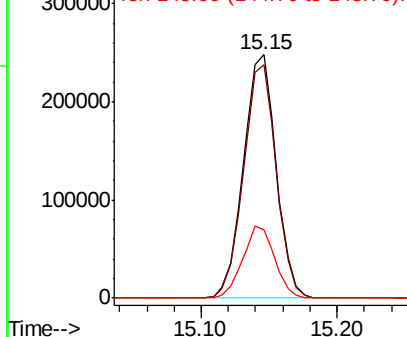


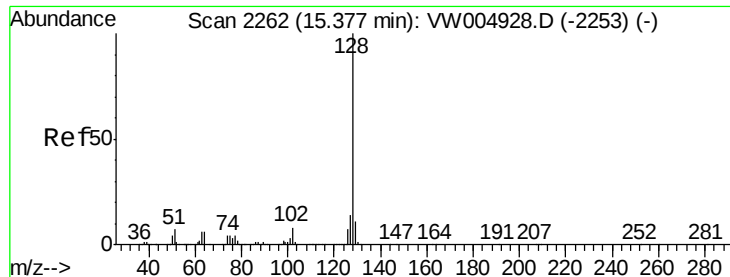
#68
 1,2,4-trichlorobenzene
 Concen: 26.000 ug/L
 RT: 15.15 min Scan# 2224
 Delta R.T. -0.00 min
 Lab File: VW004939.D
 Acq: 24 Aug 2018 16:47

Tgt Ion:	180	Resp:	416595
Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
145	29.1	23.3	34.9



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





#69

Naphthalene

Concen: 25.049 ug/L

RT: 15.38 min Scan# 2262

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

Instrument :

MSVOA_W

ClientSampleId :

BFB83

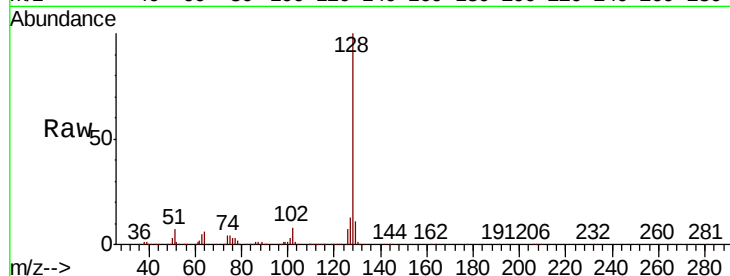
Tgt Ion:128 Resp: 815808

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

127 13.1 10.6 15.8



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

600000

500000

400000

300000

200000

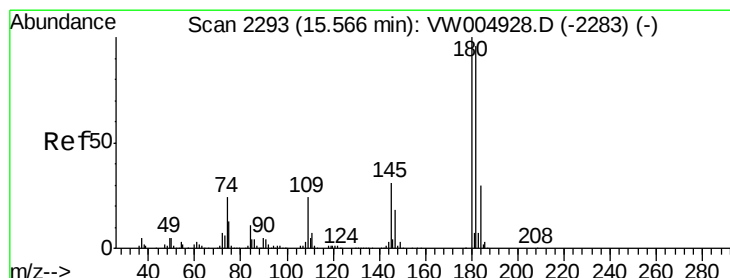
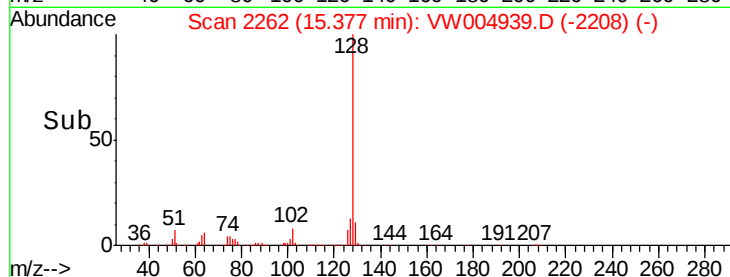
100000

0

15.30

15.40

Time-->



#70

1,2,3-Trichlorobenzene

Concen: 26.586 ug/L

RT: 15.57 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VW004939.D

Acq: 24 Aug 2018 16:47

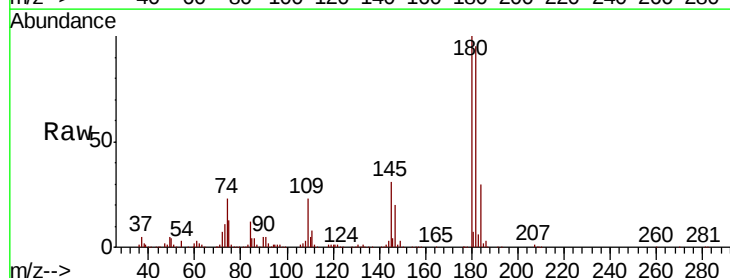
Tgt Ion:180 Resp: 401226

Ion Ratio Lower Upper

180 100

182 95.4 75.8 113.6

145 30.6 24.6 37.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

300000

250000

200000

150000

100000

50000

0

15.50

15.60

Time-->

