

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR122118\
 Data File : VR026282.D
 Acq On : 21 Dec 2018 15:00
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :

Quant Time: Dec 21 22:24:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR121718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 18 00:30:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	606749	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	510417	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	214488	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.16	65	178725	4.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.60%
7) Chloroethane-d5	2.63	69	187038	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.60%
11) 1,1-Dichloroethene-d2	3.62	63	513516	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.20%
20) 2-Butanone-d5	6.59	46	199198	58.09	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.18%
24) Chloroform-d	7.20	84	419927	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.80%
26) 1,2-Dichloroethane-d4	7.90	65	159698	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.40%
32) Benzene-d6	7.86	84	807394	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.40%
36) 1,2-Dichloropropane-d6	8.90	67	206892	4.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.20%
41) Toluene-d8	9.97	98	750165	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
43) trans-1,3-Dichloropropene-	10.24	79	53006	4.83	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.60%
46) 2-Hexanone-d5	10.59	63	148108	64.90	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	129.80%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	85115	5.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.00%
64) 1,2-Dichlorobenzene-d4	13.52	152	166392	4.87	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.84	85	245766	4.878	ug/L	98
3) Chloromethane	2.02	50	306240	5.090	ug/L	97
5) Vinyl chloride	2.17	62	305366	4.993	ug/L	98
6) Bromomethane	2.53	94	197889	4.850	ug/L	99
8) Chloroethane	2.66	64	194179	5.151	ug/L	100
9) Trichlorofluoromethane	2.94	101	211827	2.258	ug/L	87
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	254556	4.974	ug/L	98
12) 1,1-Dichloroethene	3.63	96	266528	4.905	ug/L	88
13) Acetone	3.70	43	180499	51.678	ug/L	100
14) Carbon disulfide	3.94	76	866473	4.858	ug/L	99
15) Methyl Acetate	4.20	43	47672	5.115	ug/L	98
16) Methylene chloride	4.41	84	229762	4.955	ug/L	96
17) Methyl tert-butyl Ether	4.90	73	269131	5.782	ug/L	100
18) trans-1,2-Dichloroethene	4.89	96	247397	5.138	ug/L	97
19) 1,1-Dichloroethane	5.70	63	431550	4.902	ug/L	96
21) 2-Butanone	6.69	43	245808	59.342	ug/L	98
22) cis-1,2-Dichloroethene	6.68	96	226417	5.265	ug/L #	98

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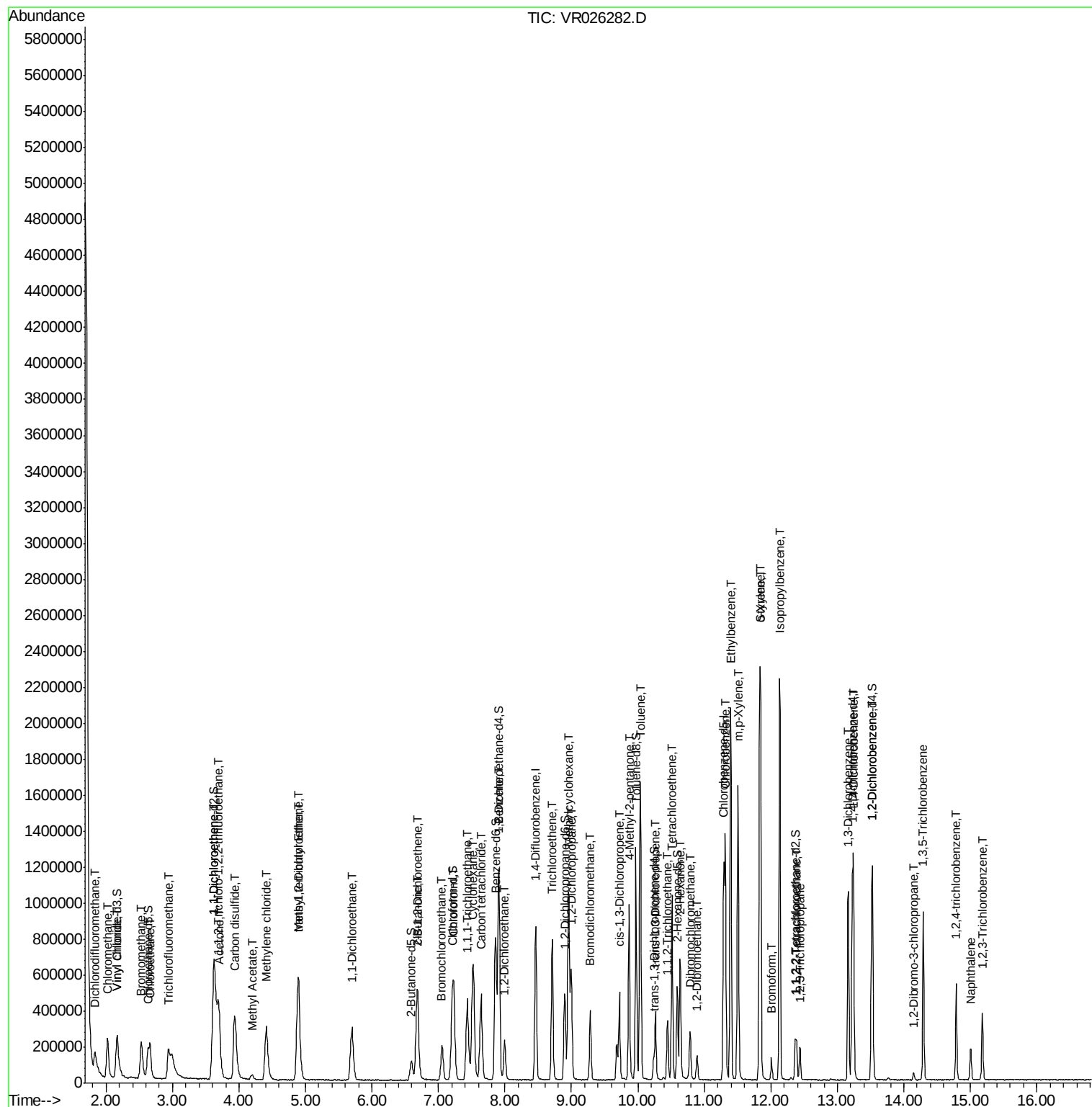
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.05	128	64135	5.063	ug/L	94
25) Chloroform	7.23	83	421826	5.054	ug/L	95
27) 1,2-Dichloroethane	7.99	62	188678	5.243	ug/L	96
29) 1,1,1-Trichloroethane	7.43	97	397113	4.751	ug/L	98
30) Cyclohexane	7.52	56	371974	5.021	ug/L	100
31) Carbon tetrachloride	7.64	117	359523	4.724	ug/L	99
33) Benzene	7.91	78	989487	4.925	ug/L	100
34) Trichloroethene	8.71	95	255322	4.819	ug/L	98
35) Methylcyclohexane	8.96	83	382027	4.974	ug/L	99
37) 1,2-Dichloropropane	9.00	63	207637	5.047	ug/L	100
38) Bromodichloromethane	9.28	83	230614	4.948	ug/L	99
39) cis-1,3-Dichloropropene	9.72	75	243648	5.384	ug/L	99
40) 4-Methyl-2-pentanone	9.87	43	596676	60.261	ug/L	99
42) Toluene	10.04	91	1069174	5.206	ug/L	100
44) trans-1,3-Dichloropropene	10.26	75	176378	5.484	ug/L	97
45) 1,1,2-Trichloroethane	10.45	97	88592	5.187	ug/L	97
47) Tetrachloroethene	10.51	164	192405	4.774	ug/L	93
48) 2-Hexanone	10.63	43	395474	61.965	ug/L	99
49) Dibromochloromethane	10.79	129	114083	5.262	ug/L	97
50) 1,2-Dibromoethane	10.89	107	75113	5.220	ug/L #	99
51) Chlorobenzene	11.32	112	579212	5.041	ug/L	96
52) Ethylbenzene	11.39	91	1235630	5.329	ug/L	100
53) m,p-Xylene	11.50	106	456635	5.266	ug/L	98
54) o-Xylene	11.83	106	411384	5.445	ug/L	98
55) Styrene	11.84	104	640437	5.614	ug/L	99
56) Isopropylbenzene	12.13	105	1184575	5.514	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.39	83	84206	5.583	ug/L	97
59) 1,2,3-Trichloropropane	12.44	75	61817	5.288	ug/L	99
61) Bromoform	12.01	173	47554	5.248	ug/L	96
62) 1,3-Dichlorobenzene	13.16	146	353690	5.073	ug/L	98
63) 1,4-Dichlorobenzene	13.24	146	367212	4.904	ug/L	98
65) 1,2-Dichlorobenzene	13.53	146	290626	5.121	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.15	75	9294	4.615	ug/L	90
67) 1,3,5-Trichlorobenzene	14.29	180	229403	5.138	ug/L	99
68) 1,2,4-trichlorobenzene	14.79	180	130599	5.384	ug/L	99
69) Naphthalene	15.00	128	119318	5.476	ug/L	98
70) 1,2,3-Trichlorobenzene	15.18	180	92964	5.527	ug/L	94

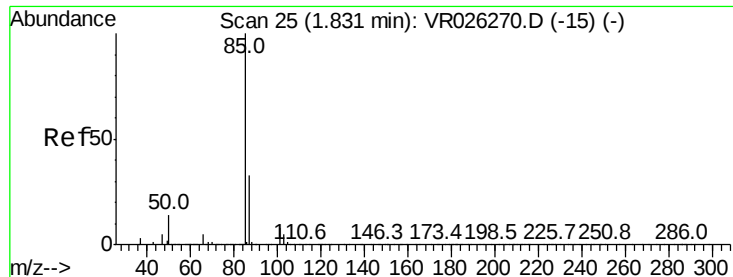
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.878 ug/L

RT: 1.84 min Scan# 26

Delta R.T. 0.01 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

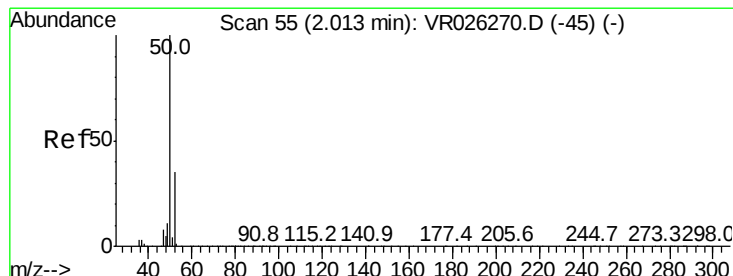
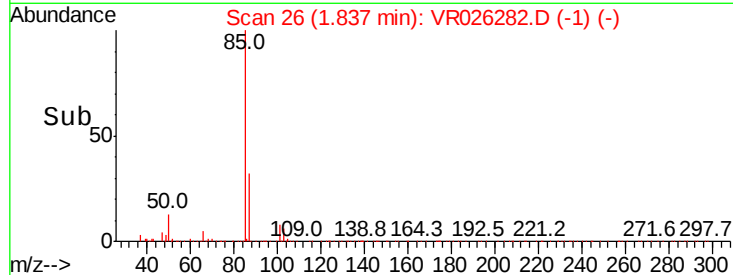
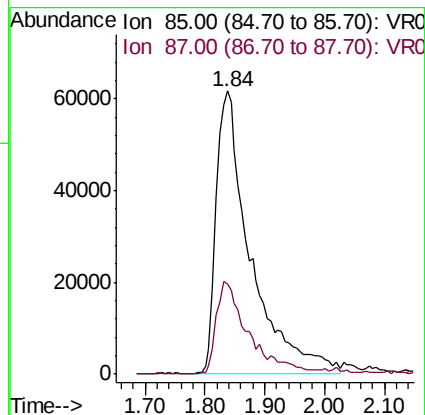
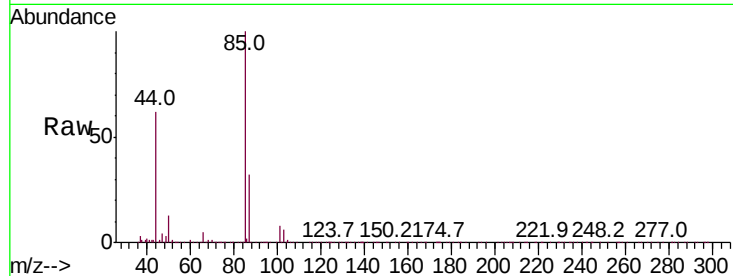
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 85 Resp: 245766

Ion Ratio Lower Upper

85 100

87 30.9 23.8 35.6



#3

Chloromethane

Concen: 5.090 ug/L

RT: 2.02 min Scan# 56

Delta R.T. 0.01 min

Lab File: VR026282.D

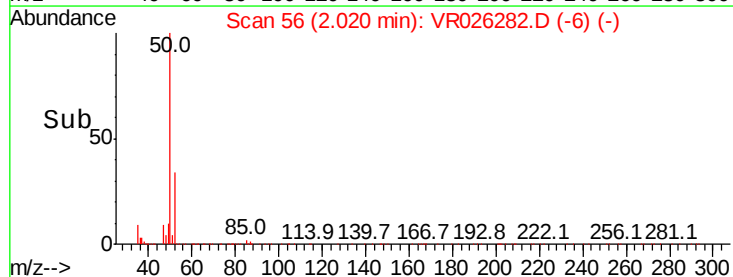
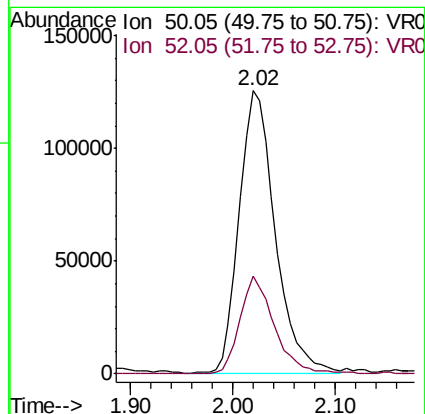
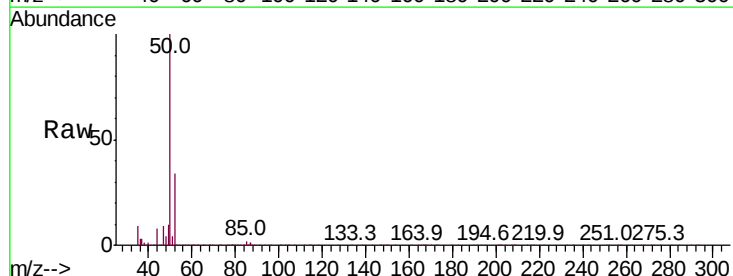
Acq: 21 Dec 2018 15:00

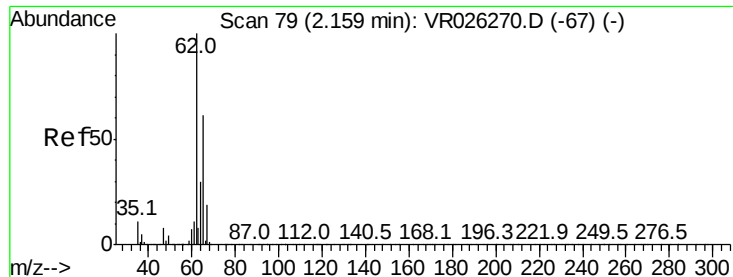
Tgt Ion: 50 Resp: 306240

Ion Ratio Lower Upper

50 100

52 34.4 22.8 42.4





#5

Vinyl chloride

Concen: 4.993 ug/L

RT: 2.17 min Scan# 81

Delta R.T. 0.01 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :

MSVOA_R

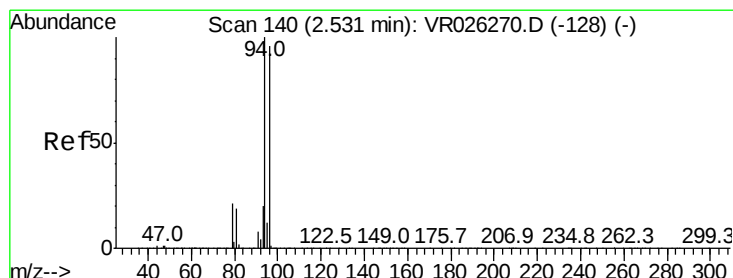
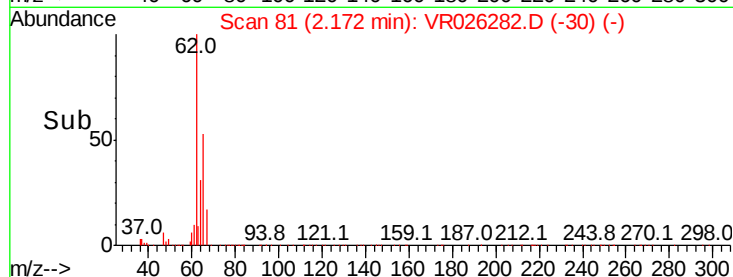
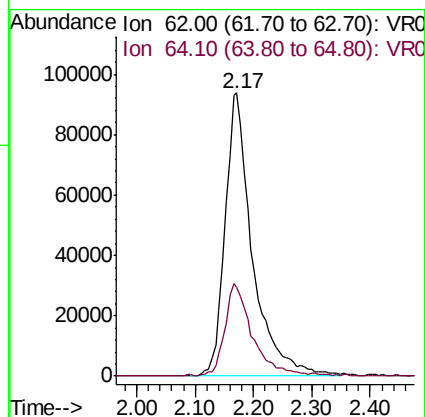
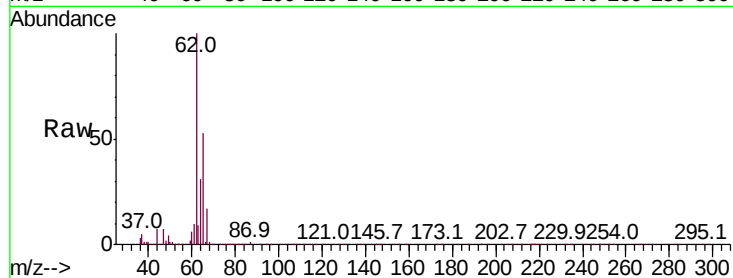
ClientSampleId :

Tot Ion: 62 Resp: 305366

Ion Ratio Lower Upper

62 100

64 31.4 22.7 42.1



#6

Bromomethane

Concen: 4.850 ug/L

RT: 2.53 min Scan# 140

Delta R.T. -0.00 min

Lab File: VR026282.D

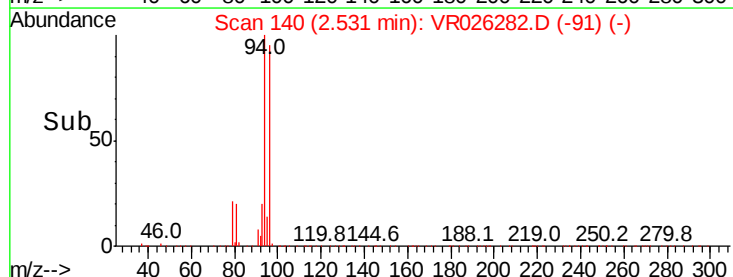
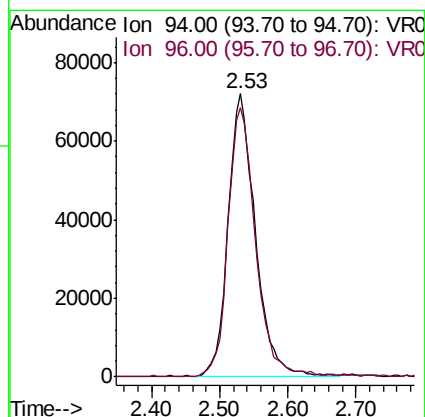
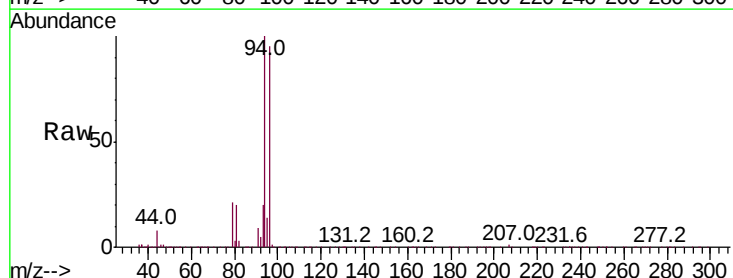
Acq: 21 Dec 2018 15:00

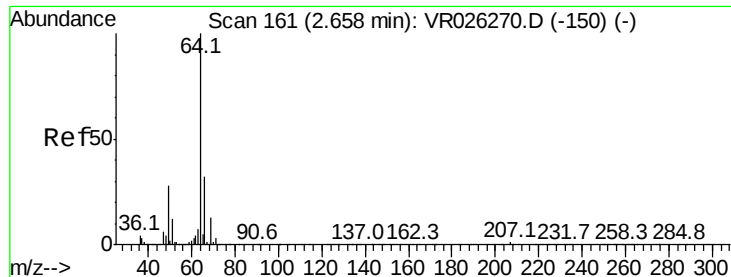
Tgt Ion: 94 Resp: 197889

Ion Ratio Lower Upper

94 100

96 95.0 67.1 124.5





#8

Chloroethane

Concen: 5.151 ug/L

RT: 2.66 min Scan# 161

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :

MSVOA_R

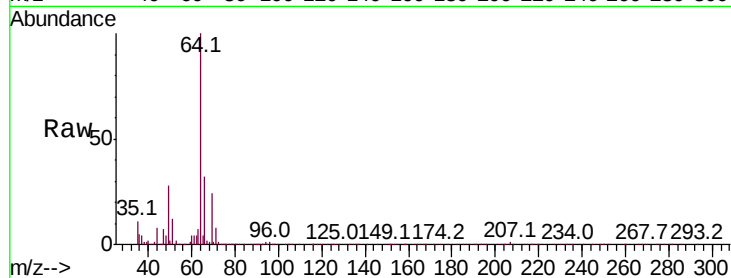
ClientSampleId :

Tot Ion: 64 Resp: 194179

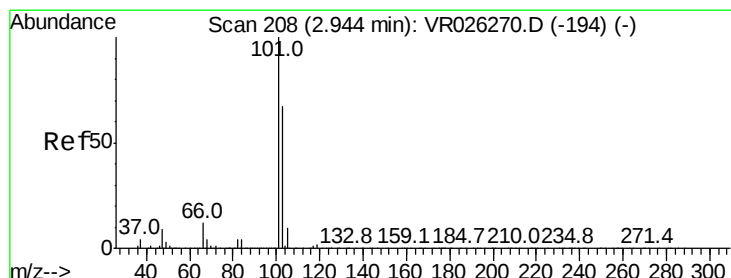
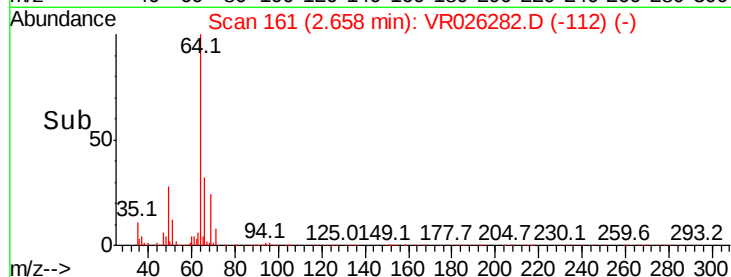
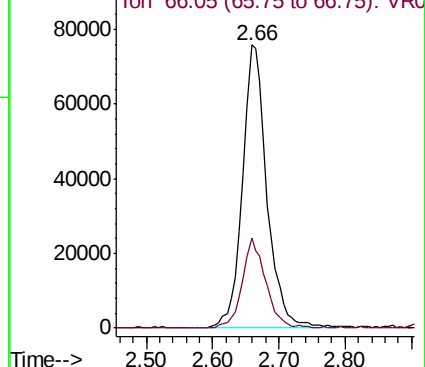
Ion Ratio Lower Upper

64 100

66 31.9 22.2 41.2



Abundance Ion 64.10 (63.80 to 64.80): VR0



#9

Trichlorofluoromethane

Concen: 2.258 ug/L

RT: 2.94 min Scan# 208

Delta R.T. -0.00 min

Lab File: VR026282.D

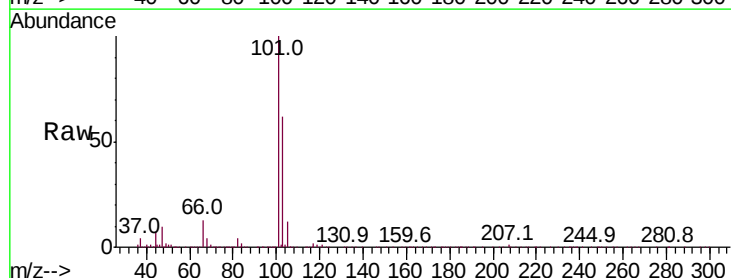
Acq: 21 Dec 2018 15:00

Tgt Ion: 101 Resp: 211827

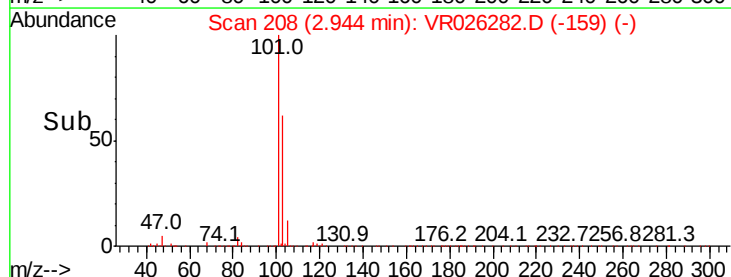
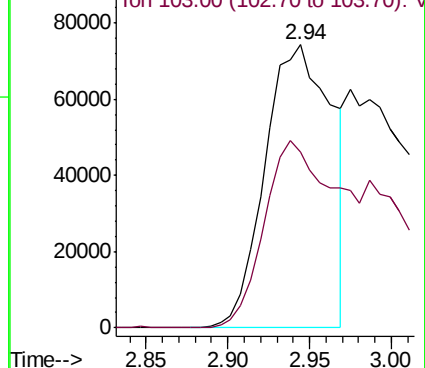
Ion Ratio Lower Upper

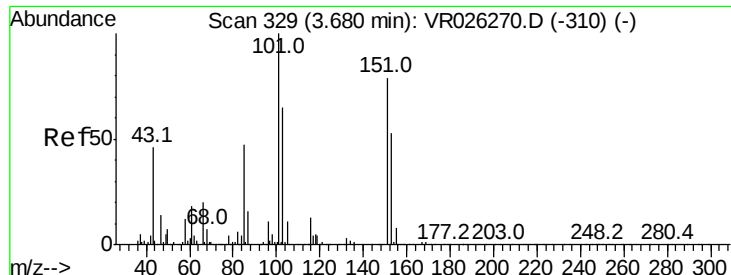
101 100

103 76.2 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V





#10

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

Concen: 4.974 ug/L

RT: 3.69 min Scan# 330

Delta R.T. 0.01 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :

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ClientSampleId :

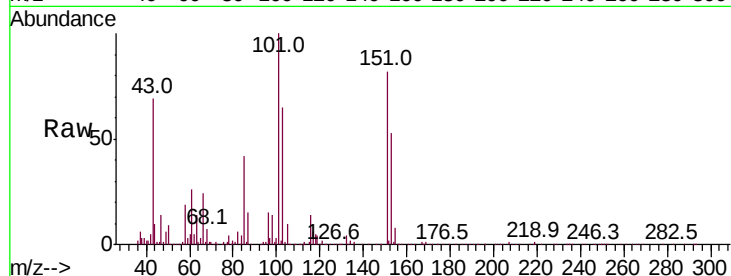
Tot Ion:101 Resp: 254556

Ion Ratio Lower Upper

101 100

85 47.0 38.2 57.2

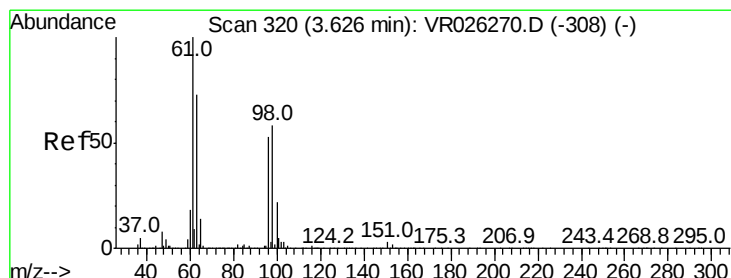
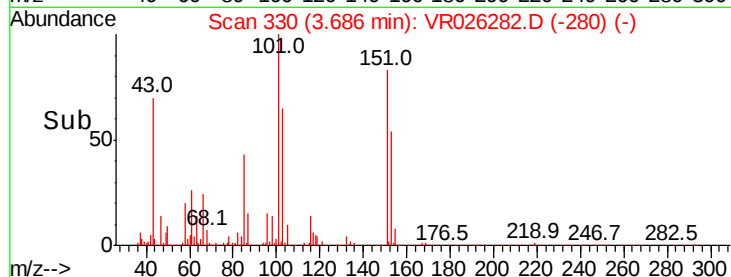
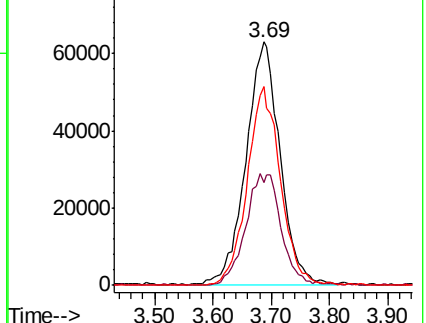
151 79.3 61.7 92.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.905 ug/L

RT: 3.63 min Scan# 320

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

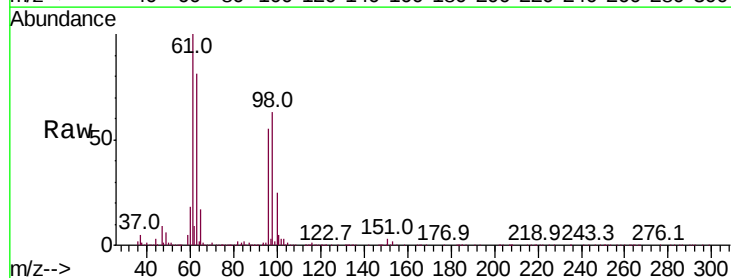
Tgt Ion: 96 Resp: 266528

Ion Ratio Lower Upper

96 100

61 183.4 127.1 236.0

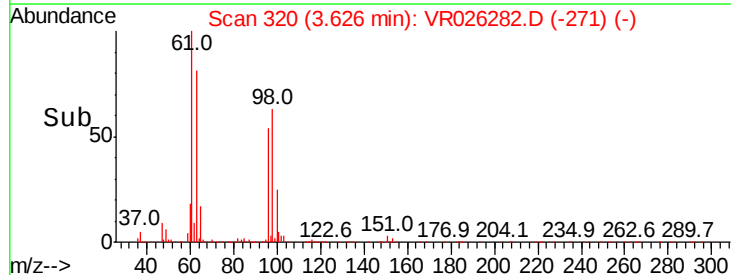
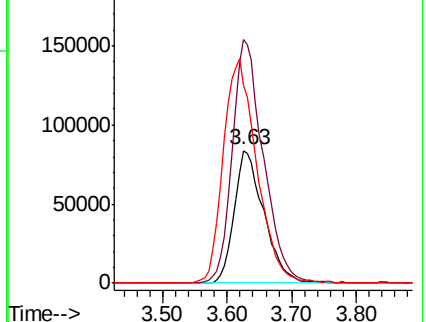
63 148.5 81.5 151.5

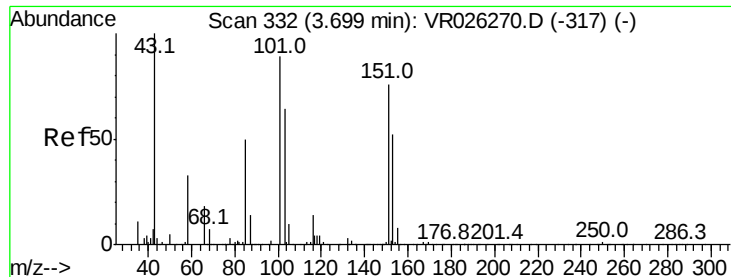


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 51.678 ug/L

RT: 3.70 min Scan# 333

Delta R.T. 0.01 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

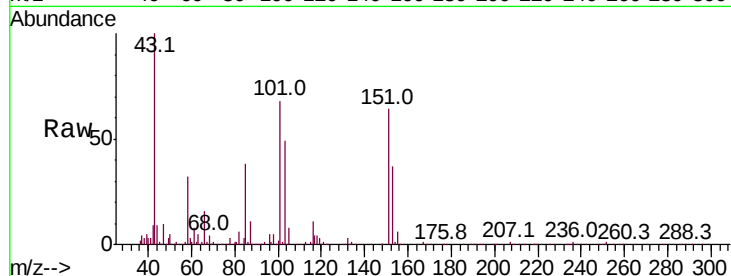
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 43 Resp: 180499

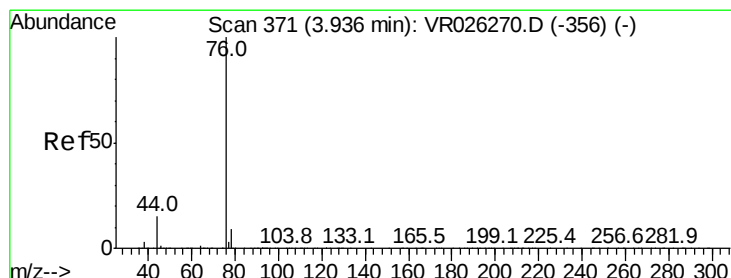
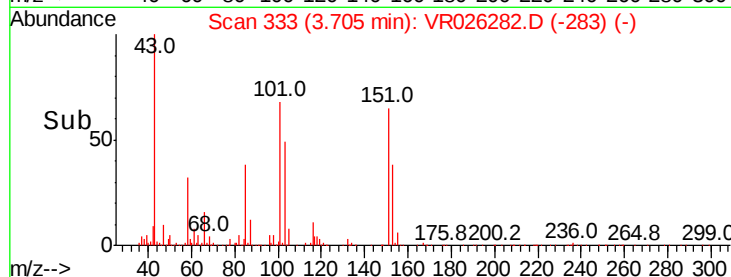
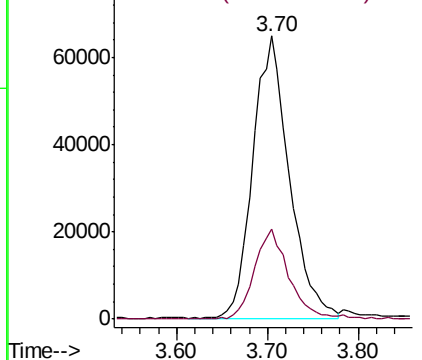
Ion Ratio Lower Upper

43 100

58 30.2 0.0 60.8



Abundance Ion 43.05 (42.75 to 43.75): VR0
Ion 58.05 (57.75 to 58.75): VR0



#14

Carbon disulfide

Concen: 4.858 ug/L

RT: 3.94 min Scan# 371

Delta R.T. -0.00 min

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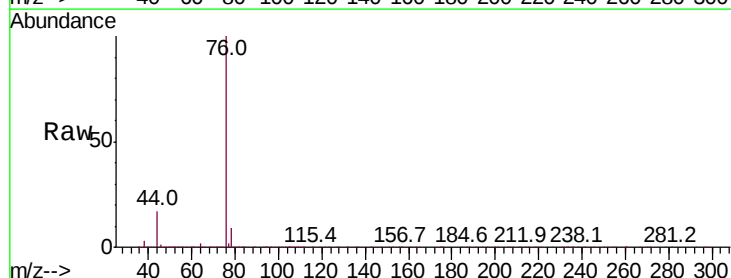
Acq: 21 Dec 2018 15:00

Tgt Ion: 76 Resp: 866473

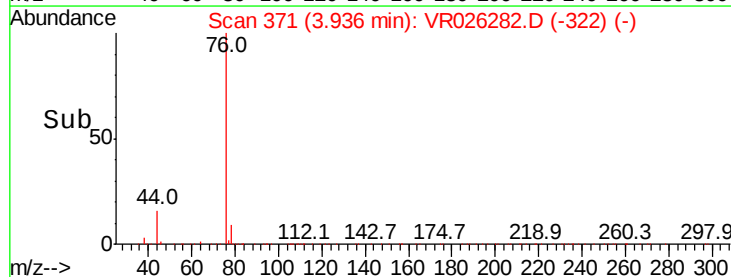
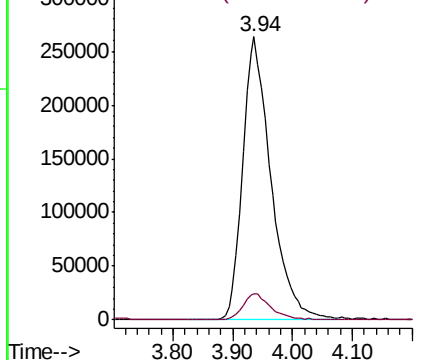
Ion Ratio Lower Upper

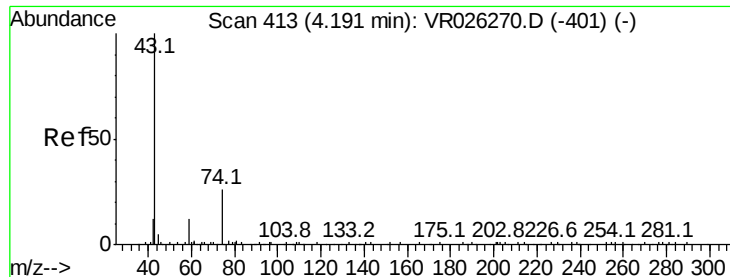
76 100

78 9.2 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VR0
Ion 78.00 (77.70 to 78.70): VR0





#15

Methyl Acetate

Concen: 5.115 ug/L

RT: 4.20 min Scan# 415

Delta R.T. 0.01 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

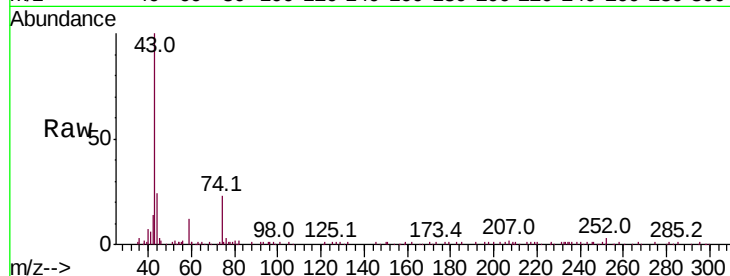
Instrument :
MSVOA_R
ClientSampled :

Tot Ion: 43 Resp: 47672

Ion Ratio Lower Upper

43 100

74 23.9 18.4 27.6



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 74.05 (73.75 to 74.75): VR0

4.20

15000

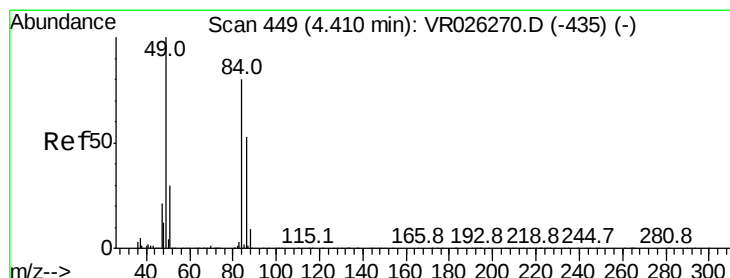
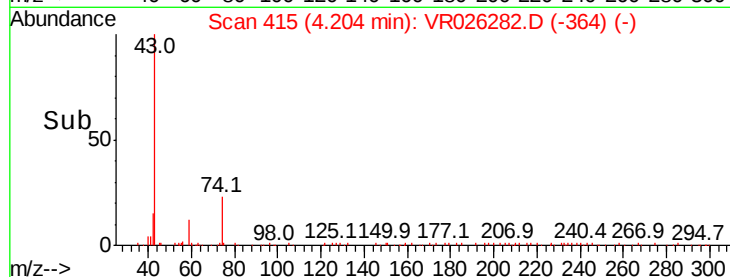
10000

5000

0

4.10 4.20 4.30

Time-->



#16

Methylene chloride

Concen: 4.955 ug/L

RT: 4.41 min Scan# 449

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

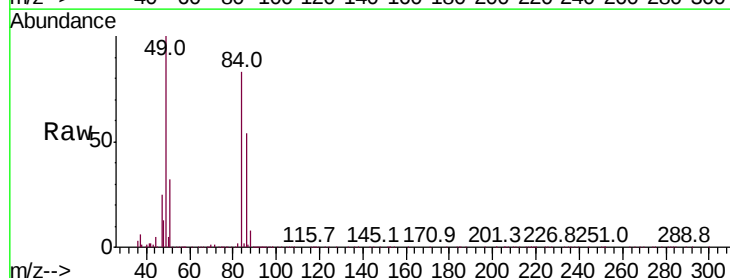
Tgt Ion: 84 Resp: 229762

Ion Ratio Lower Upper

84 100

86 64.7 45.8 85.0

49 120.8 88.7 164.7



Abundance Ion 84.05 (83.75 to 84.75): VR0

Ion 86.00 (85.70 to 86.70): VR0

Ion 49.10 (48.80 to 49.80): VR0

120000

100000

80000

60000

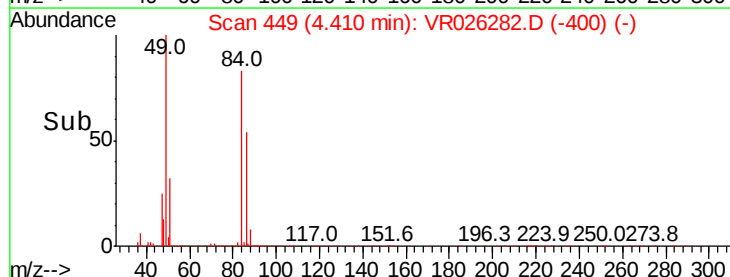
40000

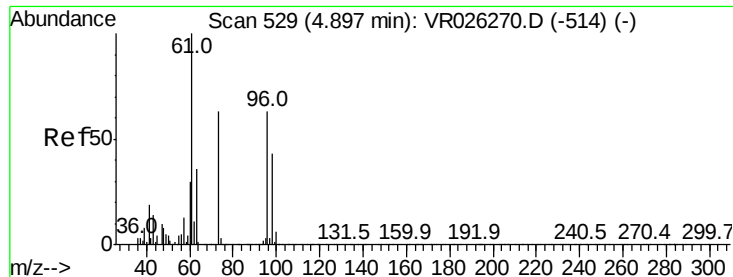
20000

0

4.30 4.40 4.50 4.60

Time-->



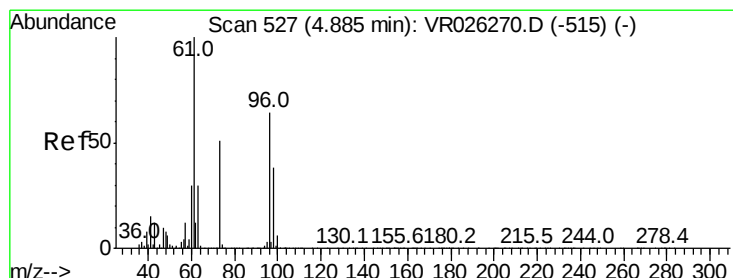
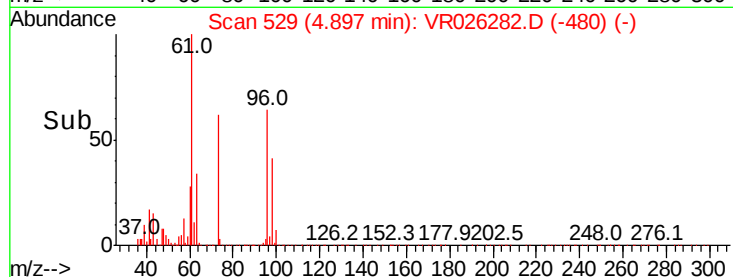
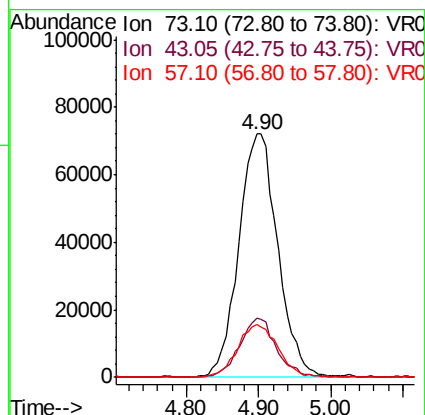
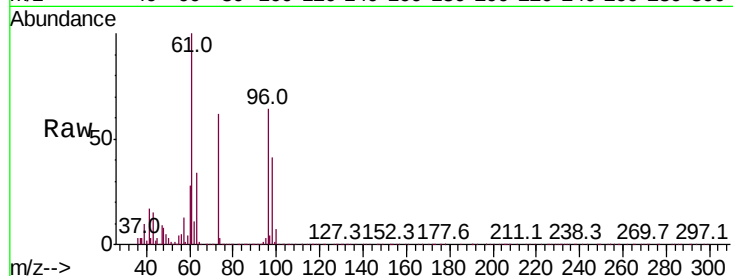


#17

Methvl tert-butvl Ether
 Concen: 5.782 ug/L
 RT: 4.90 min Scan# 529
 Delta R.T. -0.00 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

Instrument :
 MSVOA_R
 ClientSampleId :

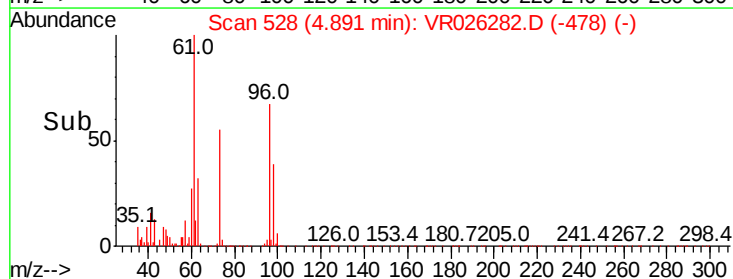
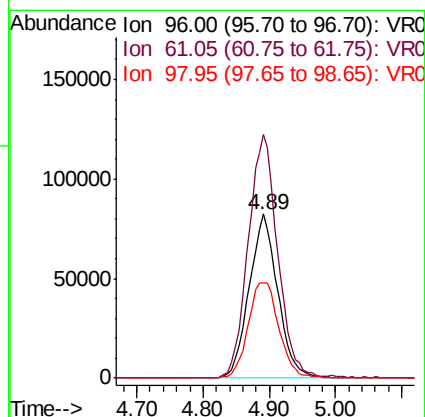
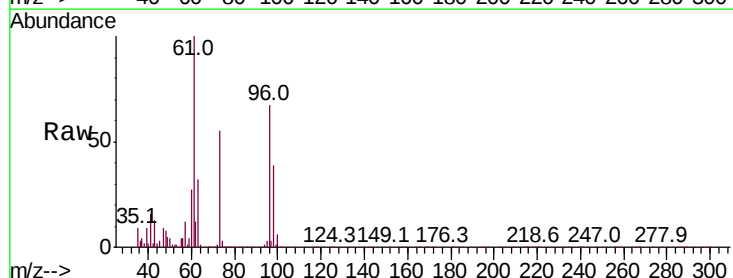
Tot Ion	Ratio	Lower	Upper
73	100		
43	23.2	18.7	28.1
57	22.7	18.2	27.2

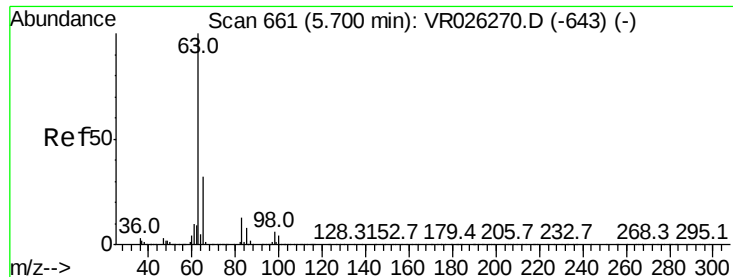


#18

trans-1,2-Dichloroethene
 Concen: 5.138 ug/L
 RT: 4.89 min Scan# 528
 Delta R.T. 0.01 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.3	101.4	188.4
98	58.0	43.3	80.5

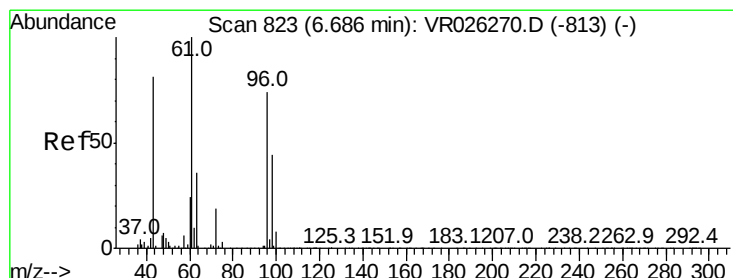
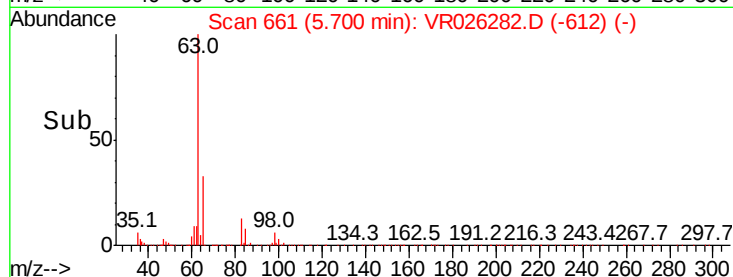
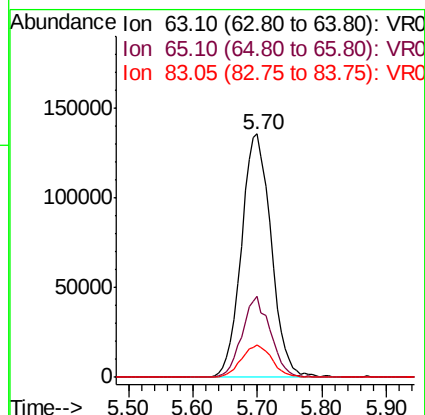
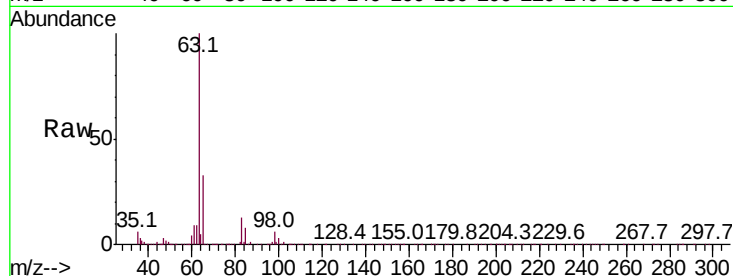




#19
 1,1-Dichloroethane
 Concen: 4.902 ug/L
 RT: 5.70 min Scan# 661
 Delta R.T. -0.00 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

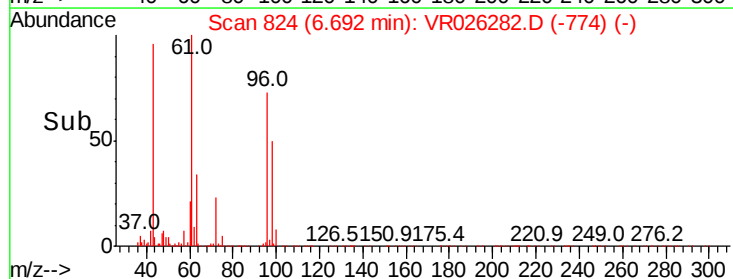
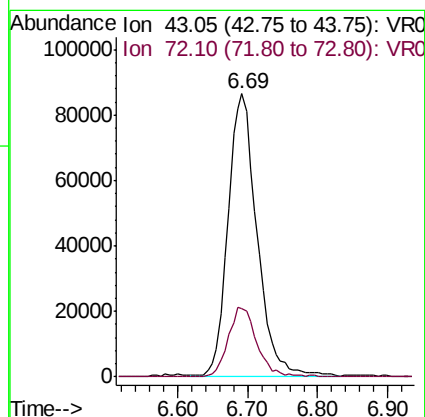
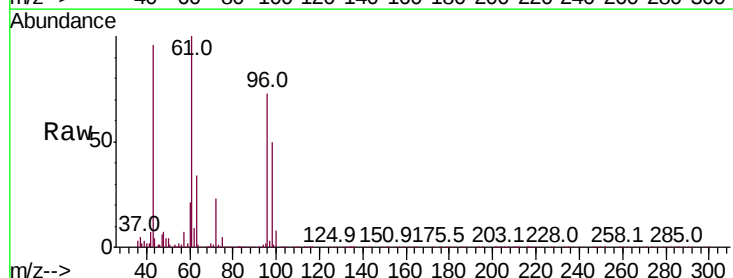
Instrument :
 MSVOA_R
 ClientSampleId :

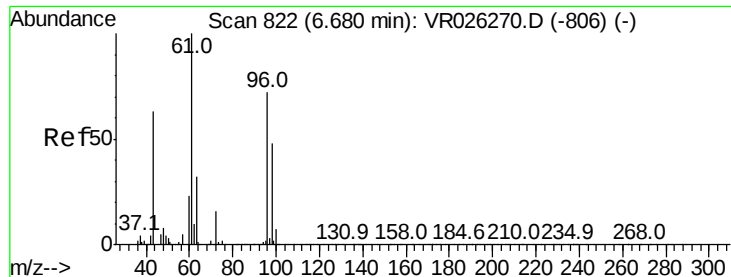
Tot Ion: 63 Resp: 431550
 Ion Ratio Lower Upper
 63 100
 65 33.3 21.6 40.0
 83 13.3 9.0 16.8



#21
 2-Butanone
 Concen: 59.342 ug/L
 RT: 6.69 min Scan# 824
 Delta R.T. 0.01 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

Tgt Ion: 43 Resp: 245808
 Ion Ratio Lower Upper
 43 100
 72 24.6 11.9 35.5



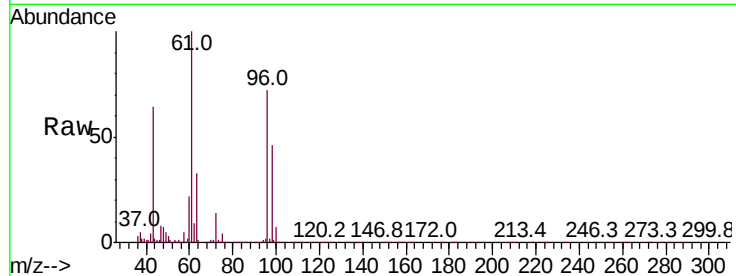


#22

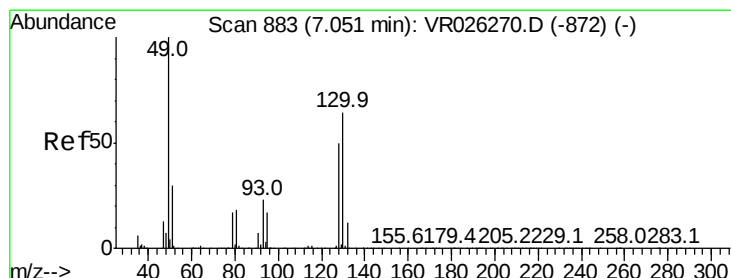
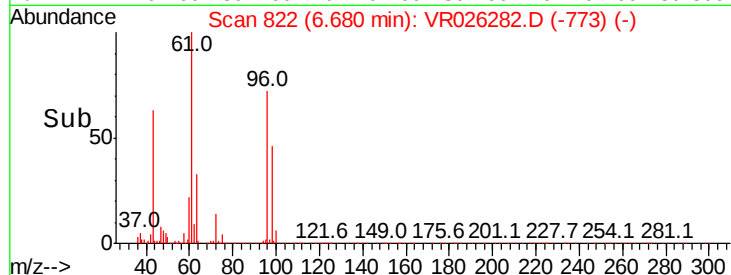
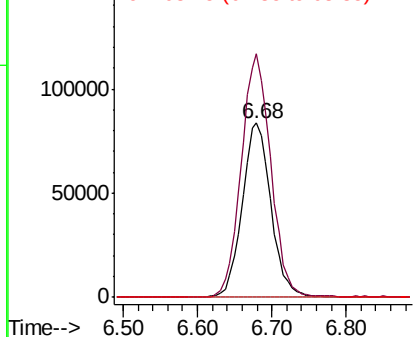
cis-1,2-Dichloroethene
Concen: 5.265 ug/L
RT: 6.68 min Scan# 822
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

Instrument :
MSVOA_R
ClientSampleId :

Tot Ion: 96 Resp: 226417
Ion Ratio Lower Upper
96 100
61 139.7 96.3 178.9
68 0.1 0.0 0.0#



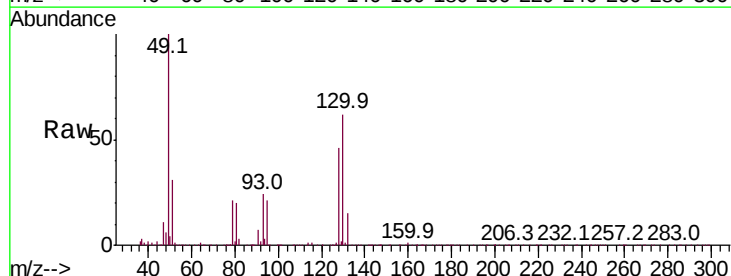
Abundance Ion 96.00 (95.70 to 96.70): VR0
Ion 61.05 (60.75 to 61.75): VR0
Ion 68.15 (67.85 to 68.85): VR0



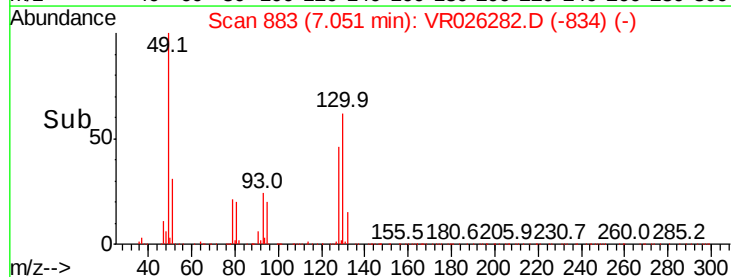
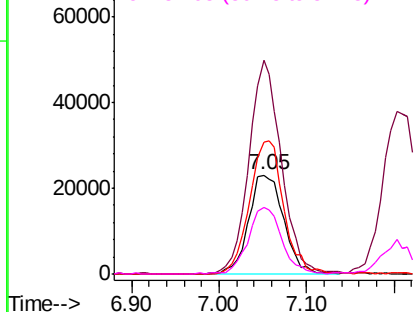
#23

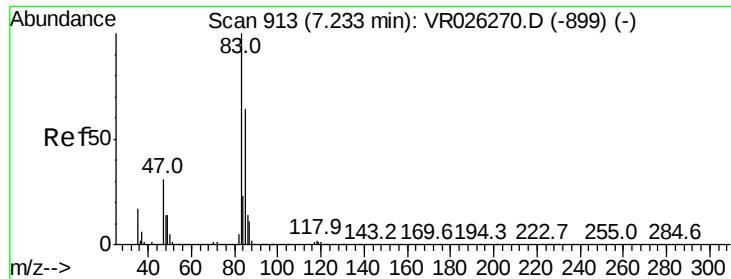
Bromochloromethane
Concen: 5.063 ug/L
RT: 7.05 min Scan# 883
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

Tgt Ion: 128 Resp: 64135
Ion Ratio Lower Upper
128 100
49 216.2 140.9 261.7
130 133.8 92.6 172.0
51 67.0 55.1 82.7



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VR0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VR0





#25

Chloroform

Concen: 5.054 ug/L

RT: 7.23 min Scan# 913

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

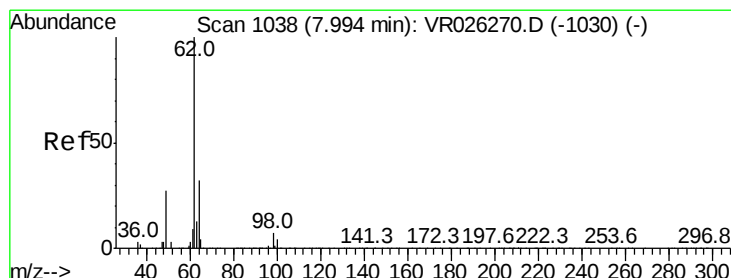
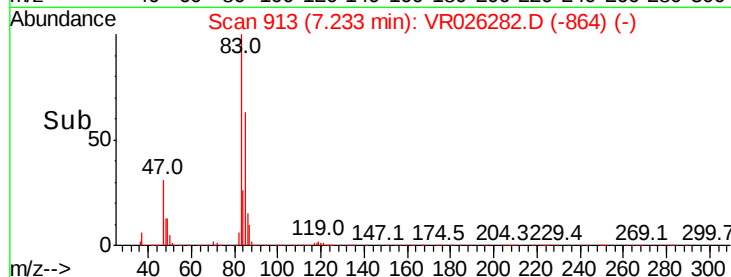
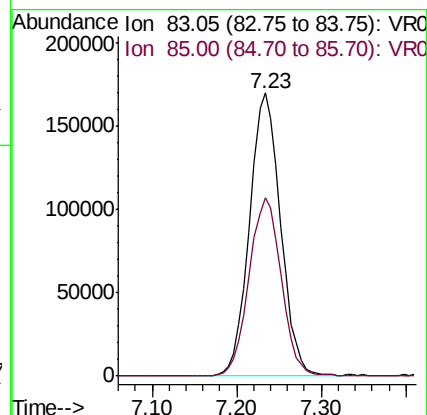
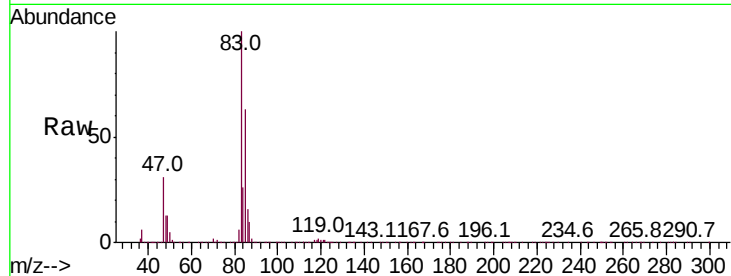
Instrument :
MSVOA_R
ClientSampled :

Tot Ion: 83 Resp: 421826

Ion Ratio Lower Upper

83 100

85 63.1 47.0 87.4



#27

1,2-Dichloroethane

Concen: 5.243 ug/L

RT: 7.99 min Scan# 1038

Delta R.T. -0.00 min

Lab File: VR026282.D

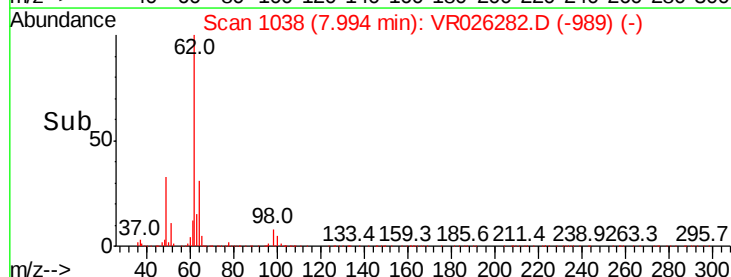
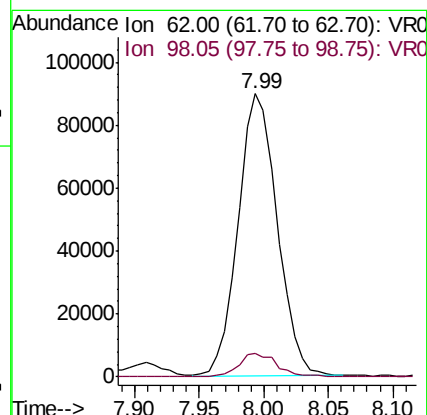
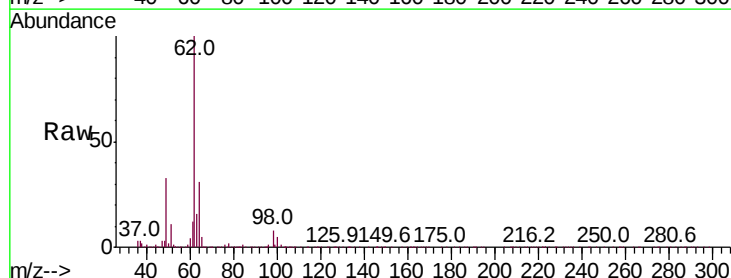
Acq: 21 Dec 2018 15:00

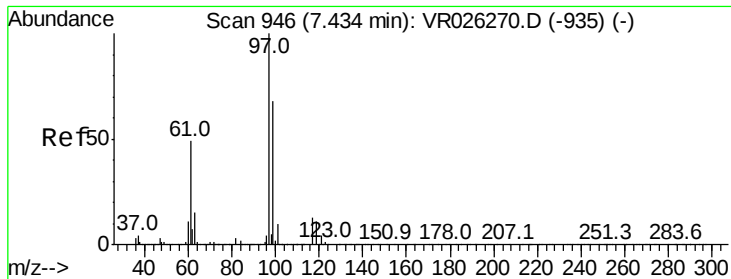
Tgt Ion: 62 Resp: 188678

Ion Ratio Lower Upper

62 100

98 8.4 5.7 8.5

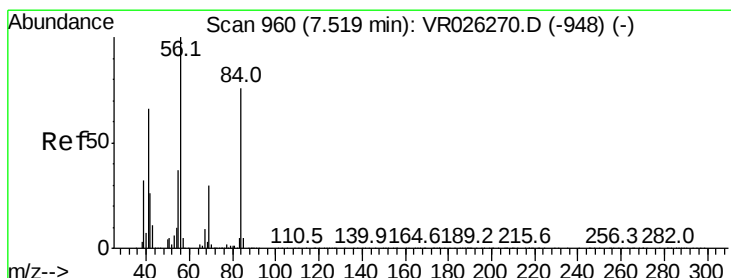
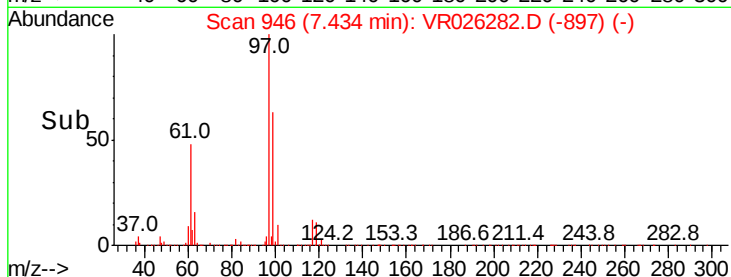
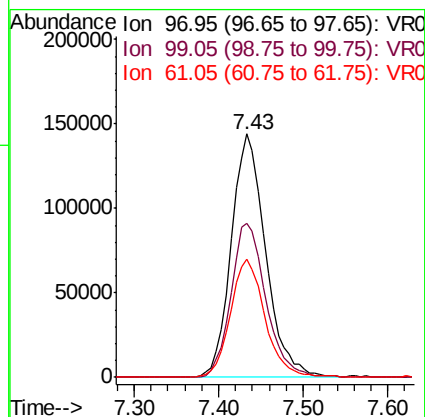
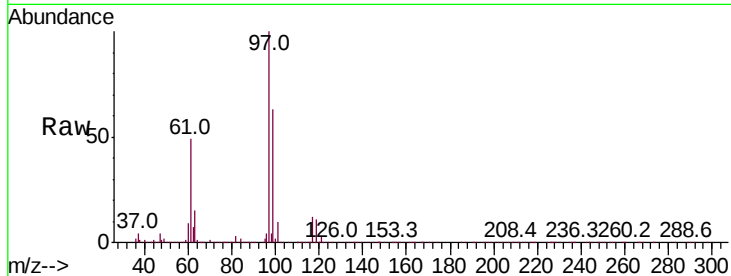




#29
 1,1,1-Trichloroethane
 Concen: 4.751 ug/L
 RT: 7.43 min Scan# 946
 Delta R.T. -0.00 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

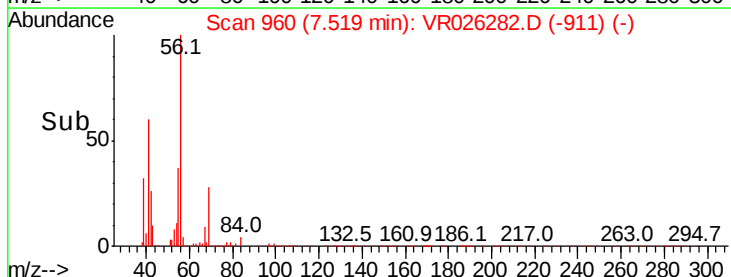
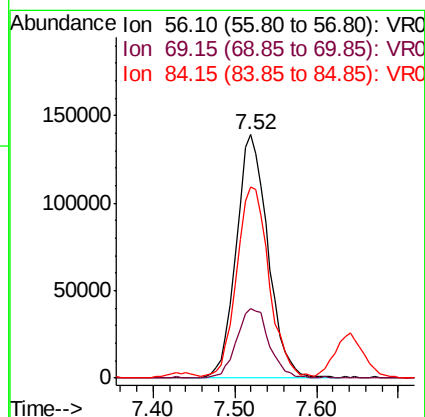
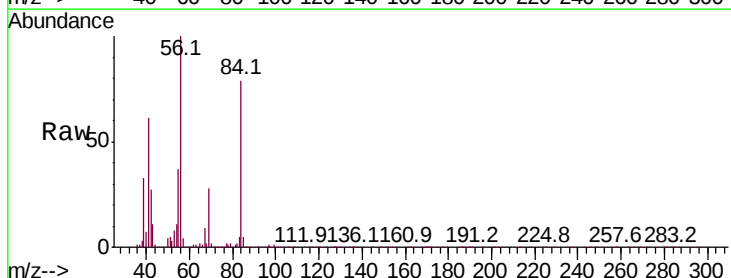
Instrument :
 MSVOA_R
 ClientSampleId :

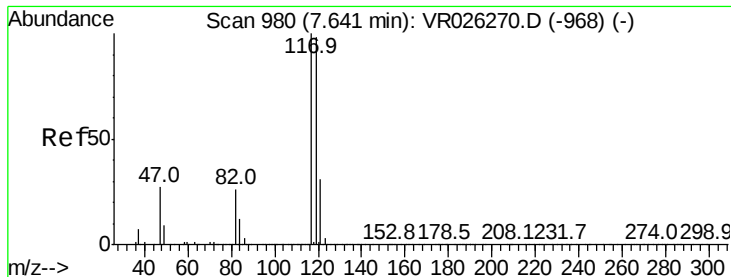
Tot Ion	Ratio	Lower	Upper
97	100		
99	64.8	50.2	75.4
61	48.6	38.0	57.0



#30
 Cyclohexane
 Concen: 5.021 ug/L
 RT: 7.52 min Scan# 960
 Delta R.T. -0.00 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.3	24.0	36.0
84	80.6	64.5	96.7





#31

Carbon tetrachloride

Concen: 4.724 ug/L

RT: 7.64 min Scan# 980

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

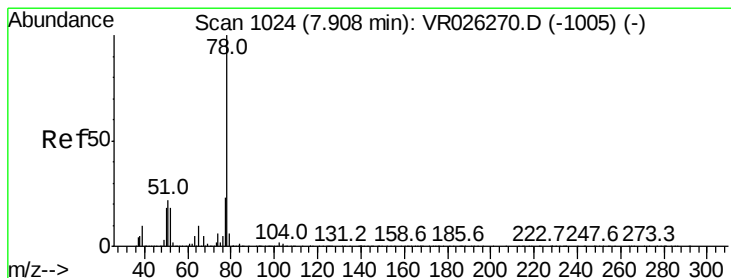
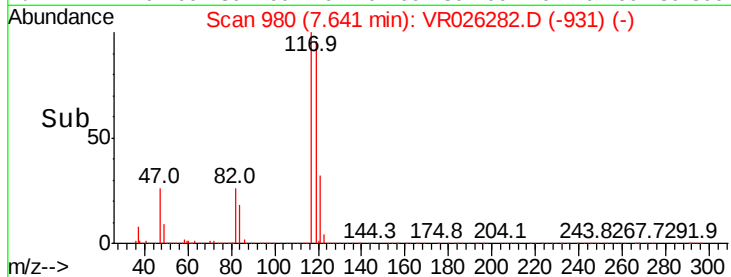
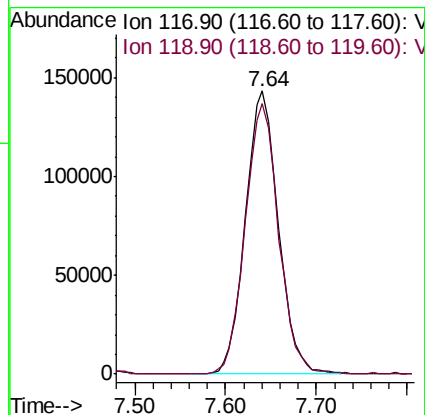
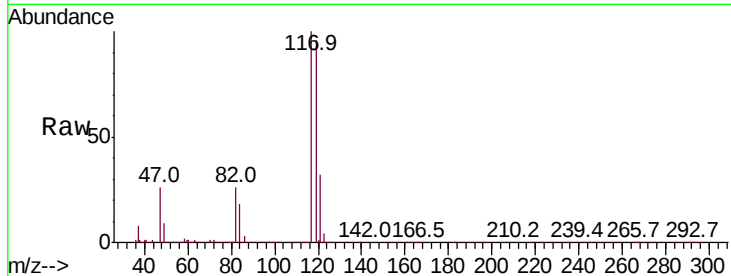
Instrument :
MSVOA_R
ClientSampleId :

Tot Ion:117 Resp: 359523

Ion Ratio Lower Upper

117 100

119 97.1 76.9 115.3



#33

Benzene

Concen: 4.925 ug/L

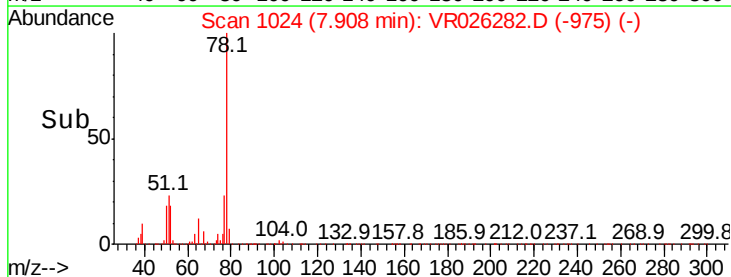
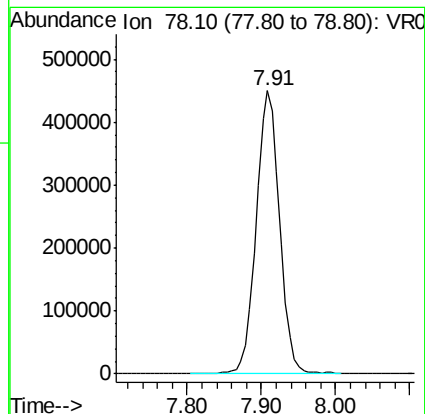
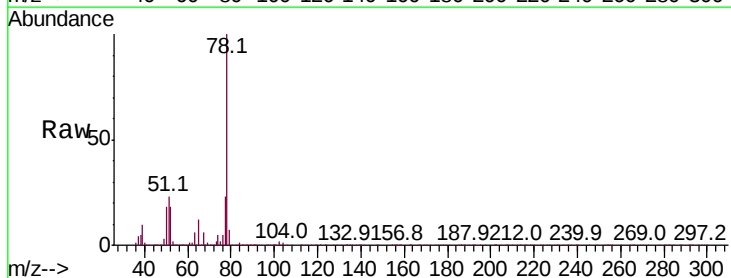
RT: 7.91 min Scan# 1024

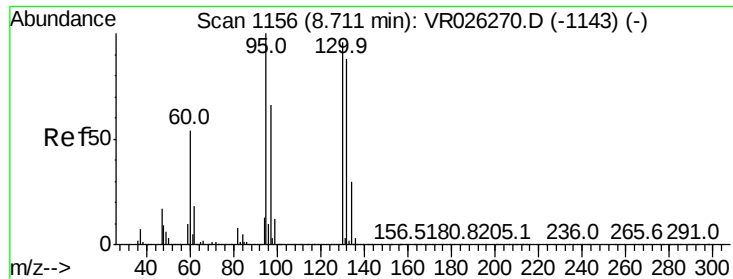
Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Tgt Ion: 78 Resp: 989487





#34

Trichloroethene

Concen: 4.819 ug/L

RT: 8.71 min Scan# 1156

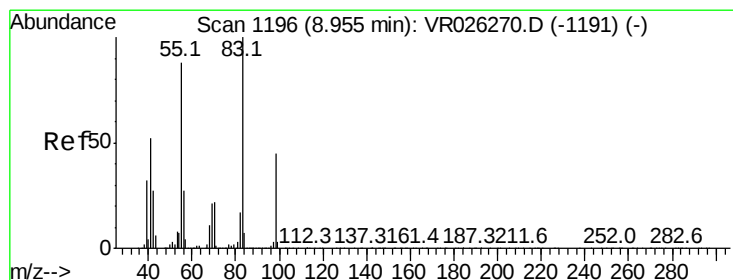
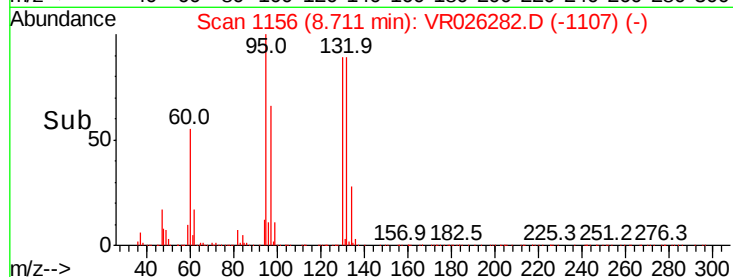
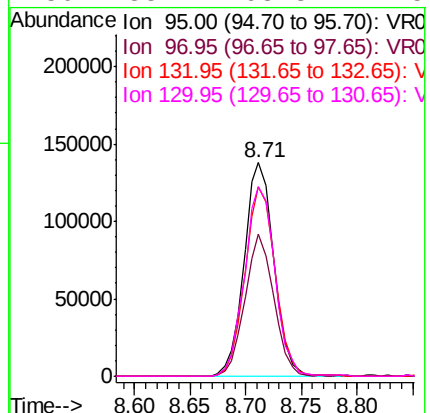
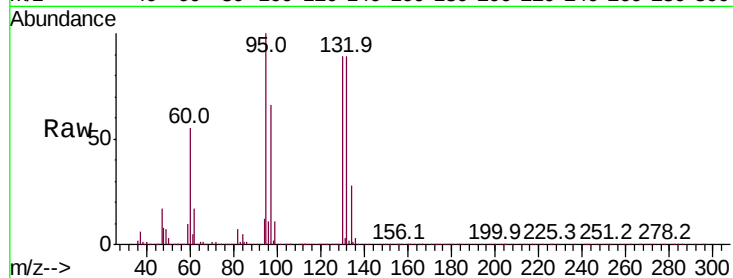
Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :
MSVOA_R
ClientSampleId :

Tot Ion:	95	Resp:	255322
Ion	Ratio	Lower	Upper
95	100		
97	66.4	44.8	83.2
132	88.6	61.7	114.5
130	88.7	63.3	117.5



#35

Methylcyclohexane

Concen: 4.974 ug/L

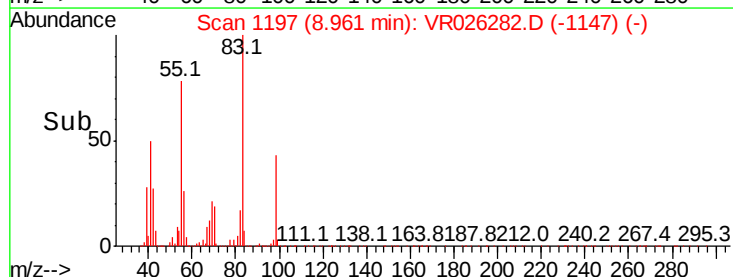
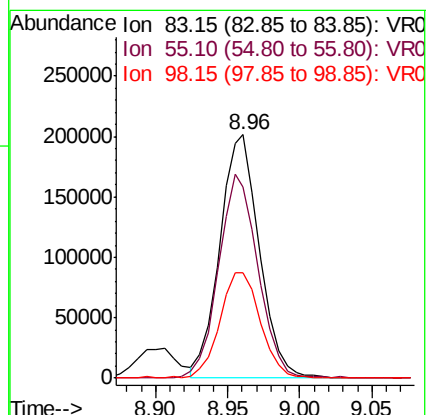
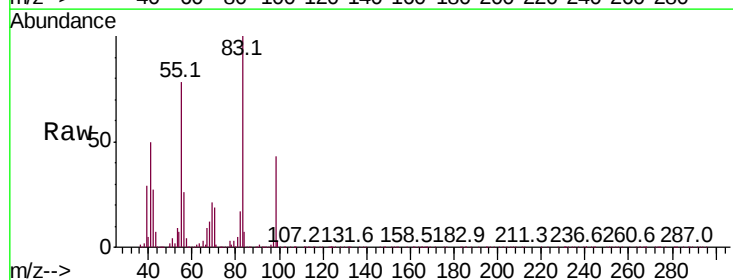
RT: 8.96 min Scan# 1197

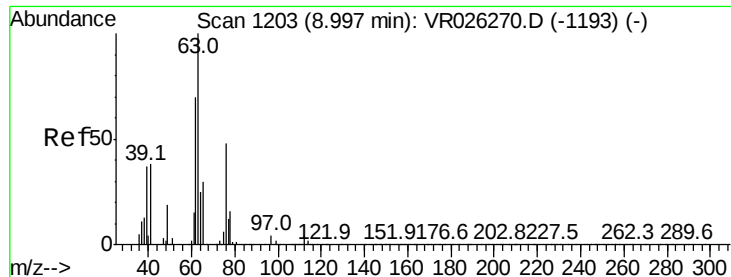
Delta R.T. 0.01 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Tgt Ion:	83	Resp:	382027
Ion	Ratio	Lower	Upper
83	100		
55	84.0	66.6	99.8
98	44.5	35.5	53.3

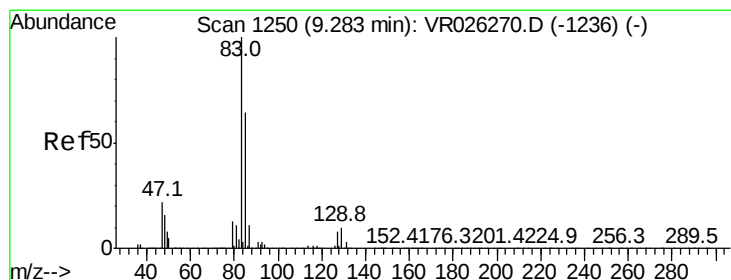
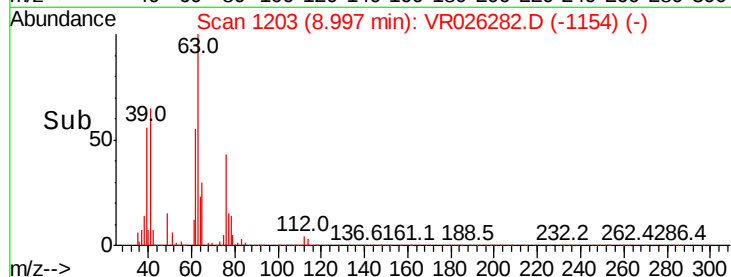
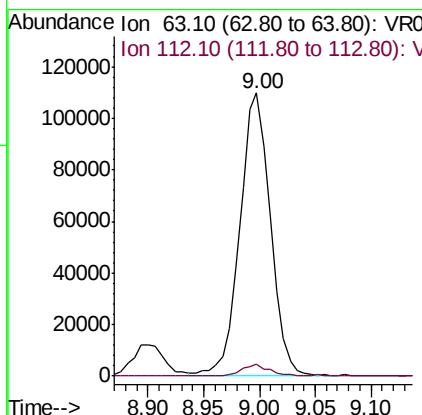
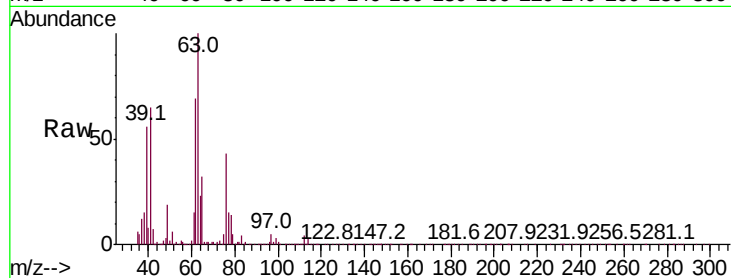




#37
1,2-Dichloropropane
Concen: 5.047 ug/L
RT: 9.00 min Scan# 1203
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

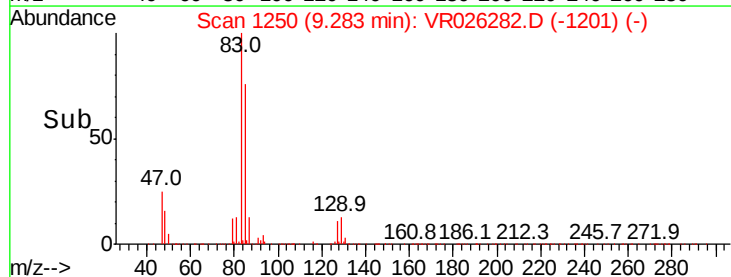
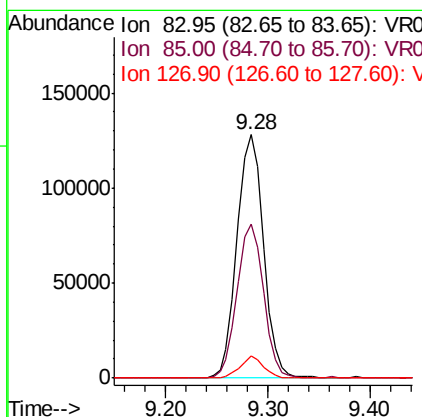
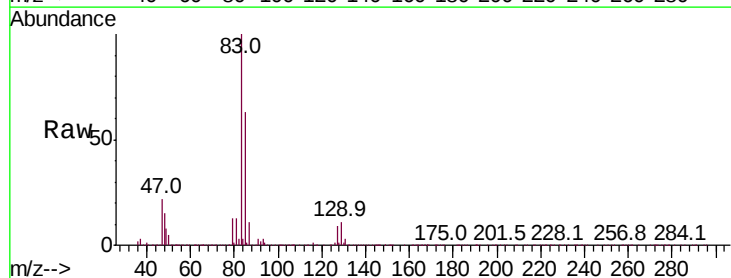
Instrument :
MSVOA_R
ClientSampleId :

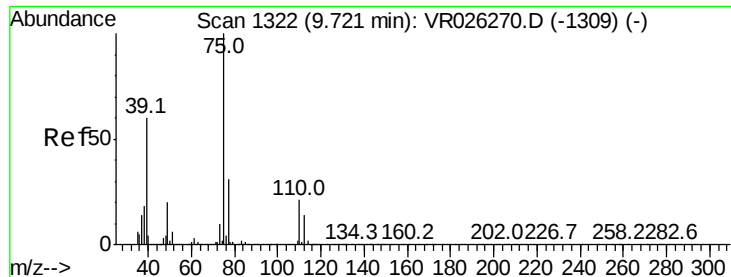
Tot Ion: 63 Resp: 207637
Ion Ratio Lower Upper
63 100
112 3.9 3.0 4.6



#38
Bromodichloromethane
Concen: 4.948 ug/L
RT: 9.28 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

Tgt Ion: 83 Resp: 230614
Ion Ratio Lower Upper
83 100
85 63.4 44.0 81.6
127 9.2 6.6 9.8



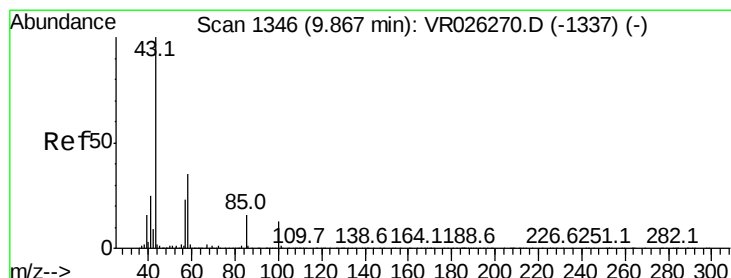
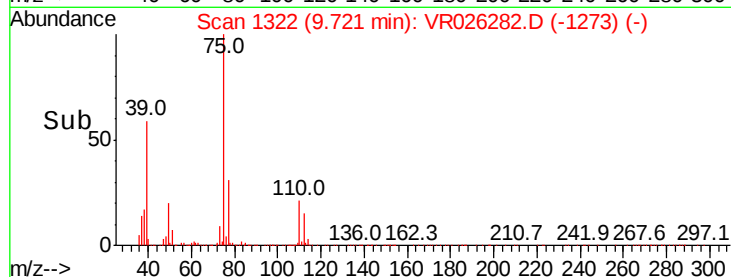
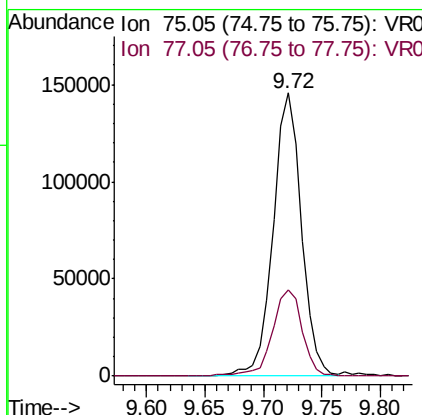
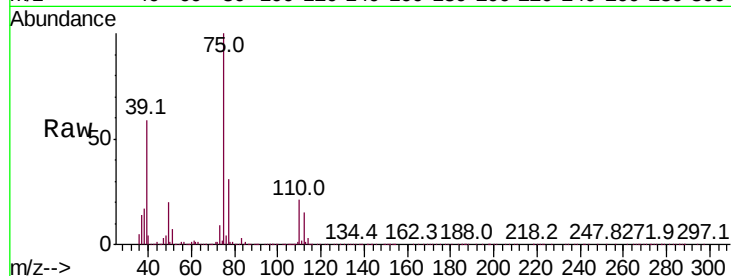


#39

cis-1,3-Dichloropropene
Concen: 5.384 ug/L
RT: 9.72 min Scan# 1322
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

Instrument :
MSVOA_R
ClientSampleId :

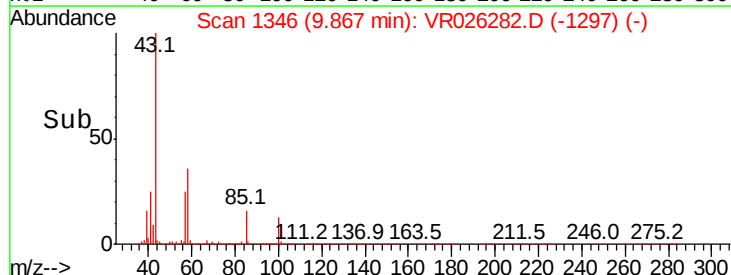
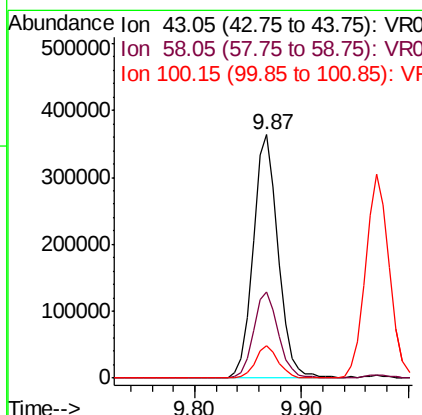
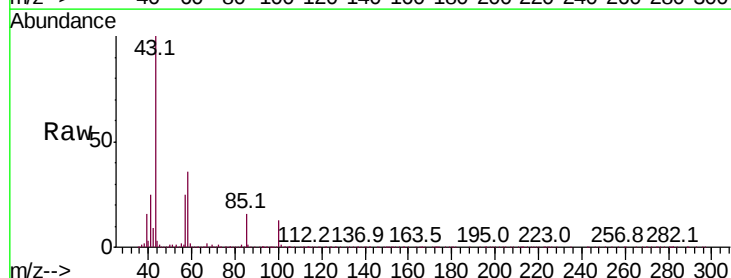
Tot Ion: 75 Resp: 243648
Ion Ratio Lower Upper
75 100
77 30.7 21.9 40.7

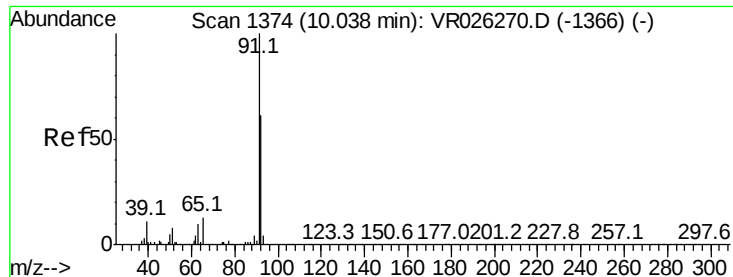


#40

4-Methyl-2-pentanone
Concen: 60.261 ug/L
RT: 9.87 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

Tgt Ion: 43 Resp: 596676
Ion Ratio Lower Upper
43 100
58 35.4 28.0 42.0
100 12.5 9.8 14.6





#42

Toluene

Concen: 5.206 ug/L

RT: 10.04 min Scan# 1374

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :

MSVOA_R

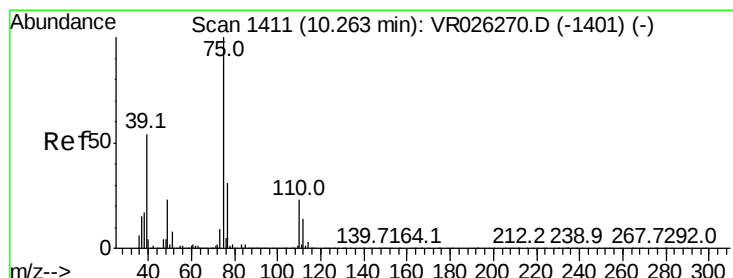
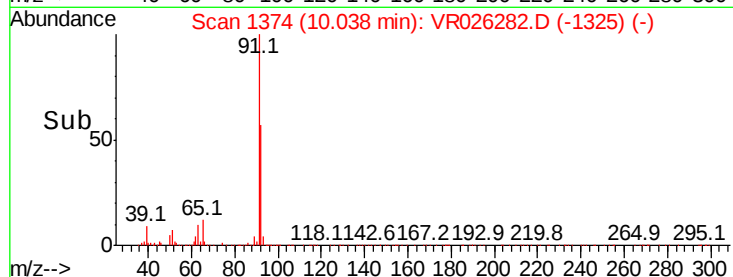
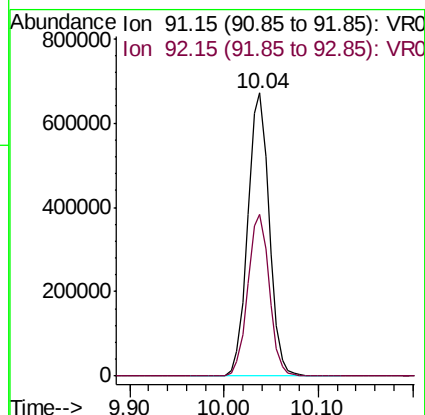
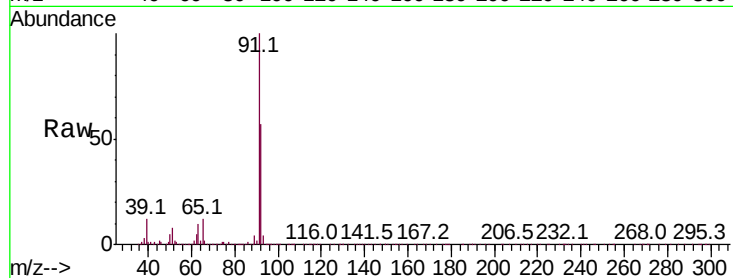
ClientSampleId :

Tot Ion: 91 Resp: 1069174

Ion Ratio Lower Upper

91 100

92 57.2 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 5.484 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. -0.00 min

Lab File: VR026282.D

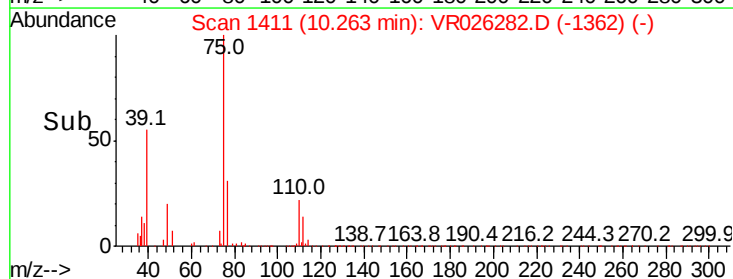
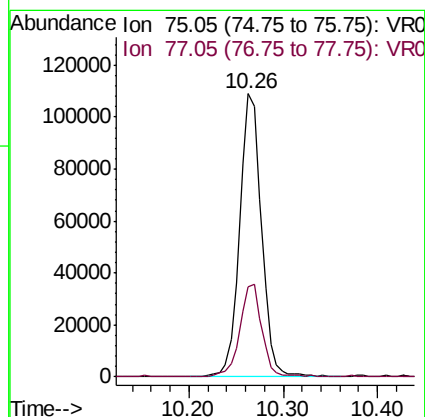
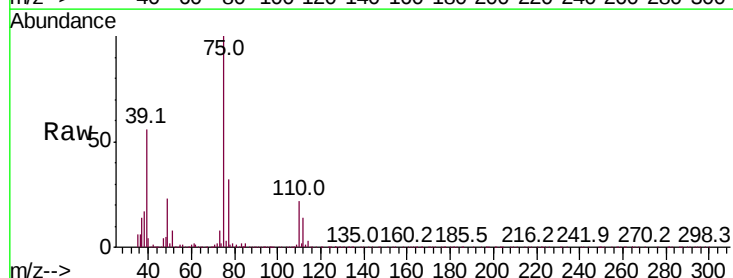
Acq: 21 Dec 2018 15:00

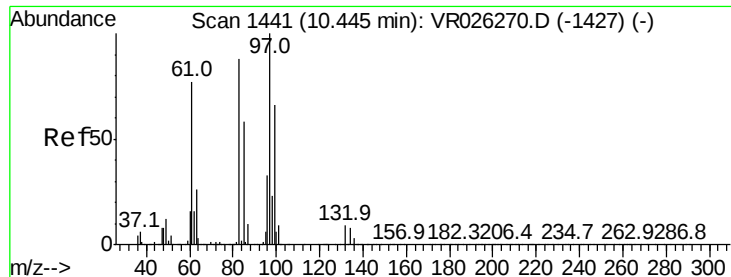
Tgt Ion: 75 Resp: 176378

Ion Ratio Lower Upper

75 100

77 31.7 21.2 39.4





#45

1,1,2-Trichloroethane

Concen: 5.187 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :

MSVOA_R

ClientSampleId :

Tot Ion: 97 Resp: 88592

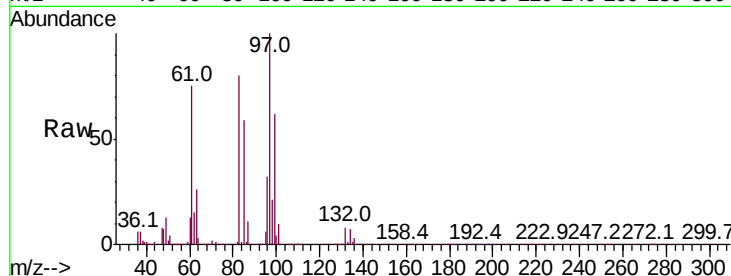
Ion Ratio Lower Upper

97 100

99 61.6 45.0 83.6

83 80.3 57.9 107.5

85 58.7 38.9 72.2

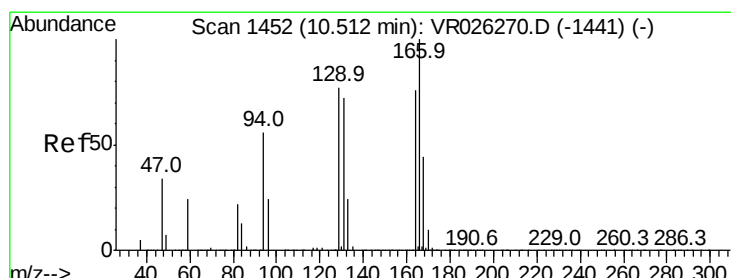
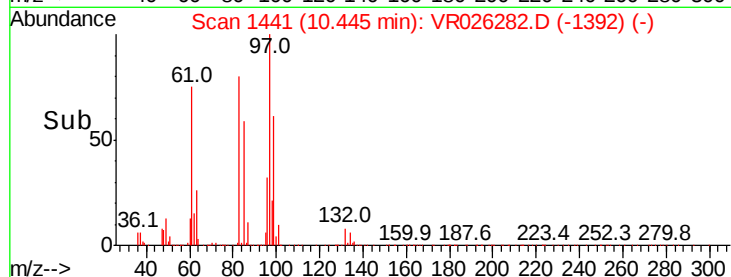
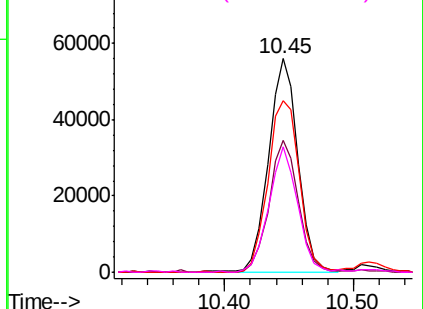


Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0



#47

Tetrachloroethene

Concen: 4.774 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Tgt Ion: 164 Resp: 192405

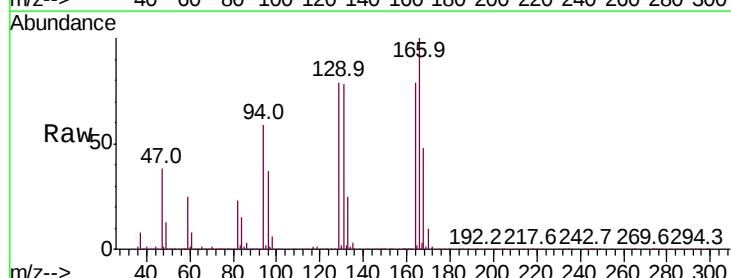
Ion Ratio Lower Upper

164 100

129 99.5 65.7 122.1

131 99.0 63.7 118.3

166 126.3 83.4 155.0

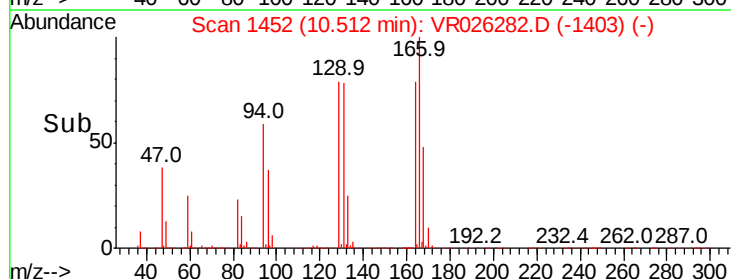
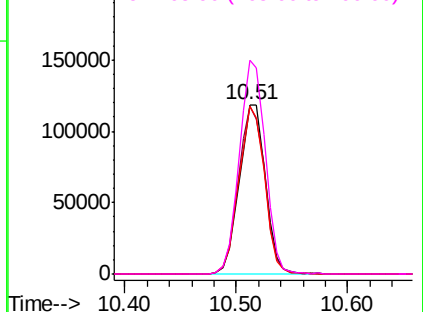


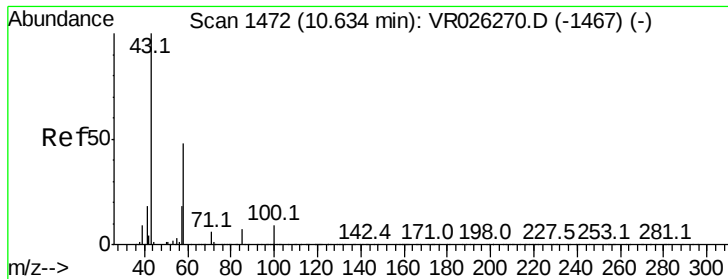
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

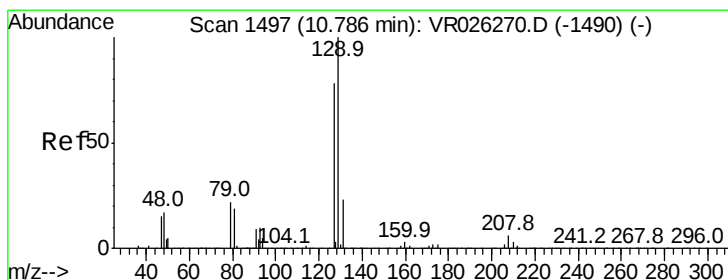
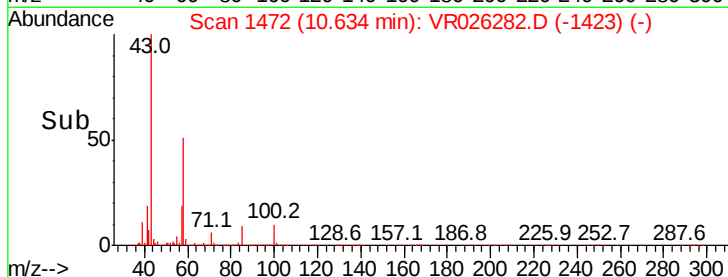
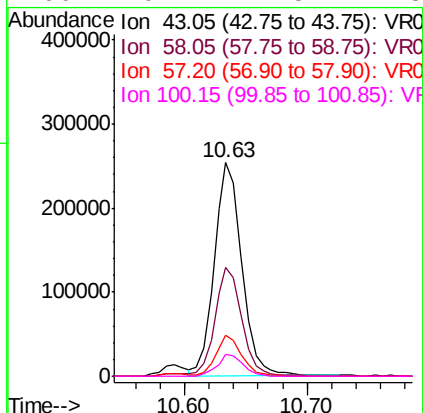
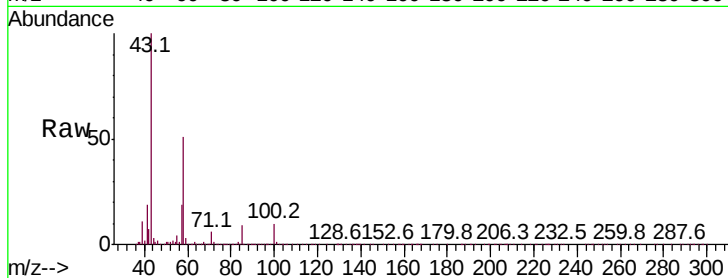




#48
2-Hexanone
Concen: 61.965 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

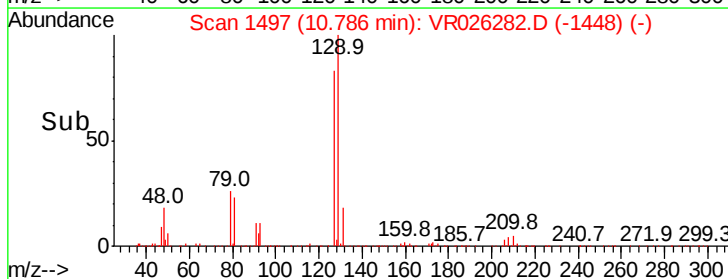
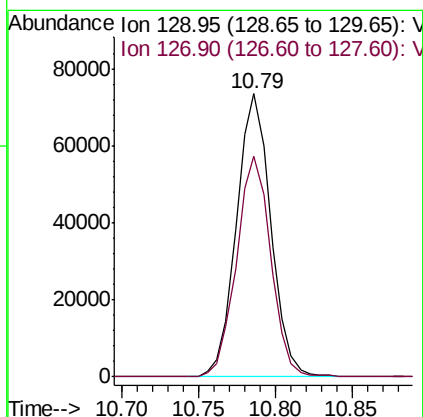
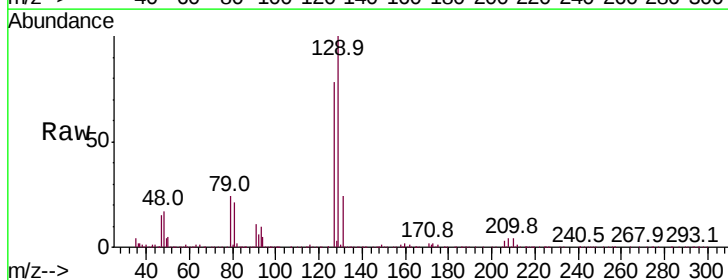
Instrument :
MSVOA_R
ClientSampleId :

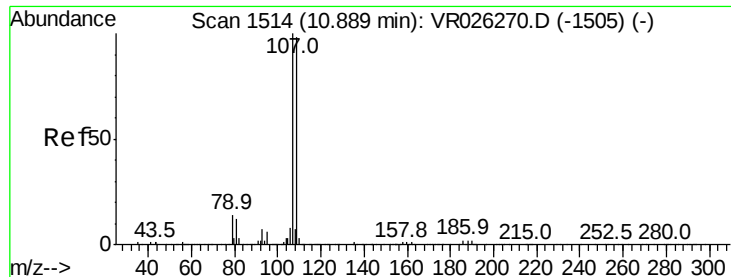
Tot Ion:	43	Resp:	395474
Ion	Ratio	Lower	Upper
43	100		
58	49.7	40.5	60.7
57	18.0	14.2	21.4
100	9.7	7.5	11.3



#49
Dibromochloromethane
Concen: 5.262 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

Tgt Ion:	129	Resp:	114083
Ion	Ratio	Lower	Upper
129	100		
127	77.8	52.6	97.6

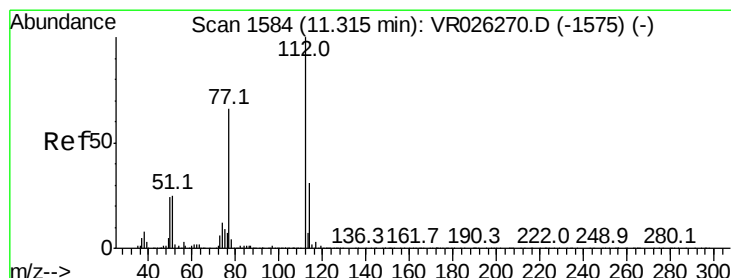
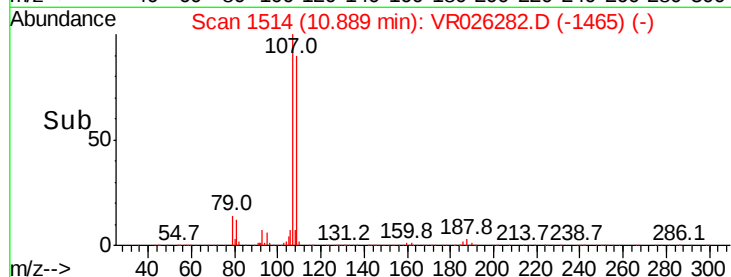
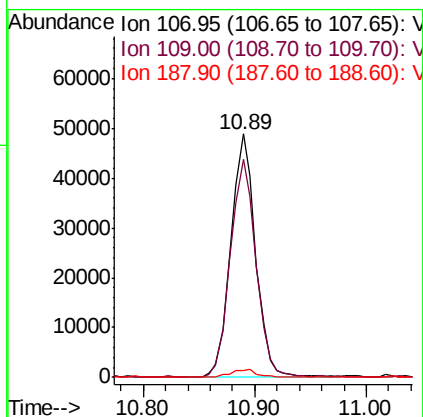
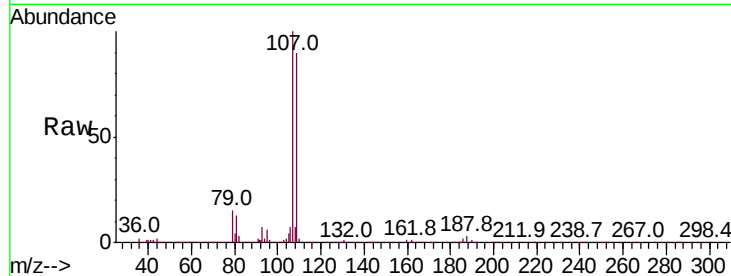




#50
 1,2-Dibromoethane
 Concen: 5.220 ug/L
 RT: 10.89 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

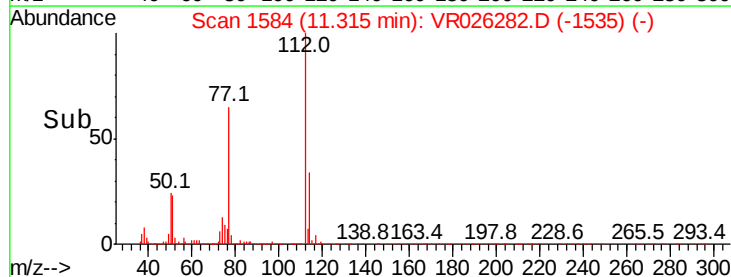
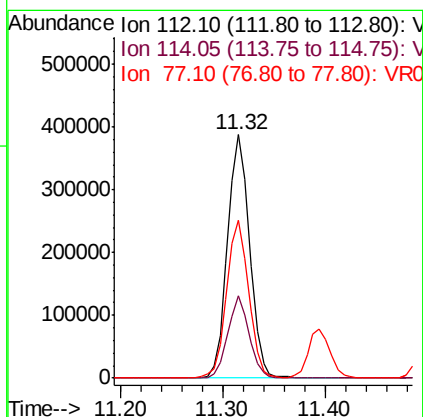
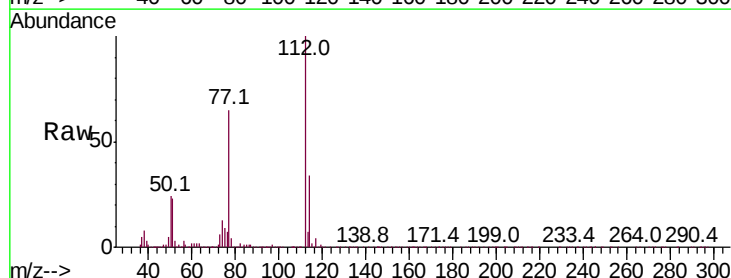
Instrument :
 MSVOA_R
 ClientSampleId :

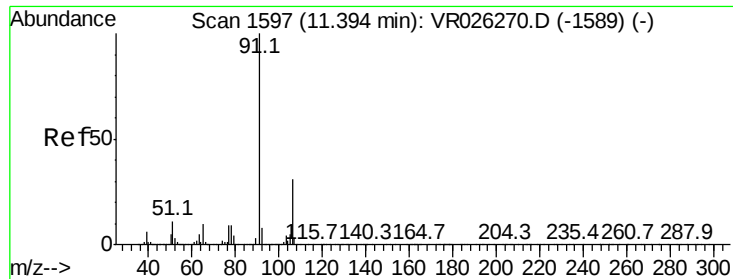
Tot Ion:107 Resp: 75113
 Ion Ratio Lower Upper
 107 100
 109 89.5 62.3 115.7
 188 2.7 3.0 4.6#



#51
 Chlorobenzene
 Concen: 5.041 ug/L
 RT: 11.32 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

Tgt Ion:112 Resp: 579212
 Ion Ratio Lower Upper
 112 100
 114 33.6 21.7 40.3
 77 64.8 49.4 74.2





#52

Ethylbenzene

Concen: 5.329 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :

MSVOA_R

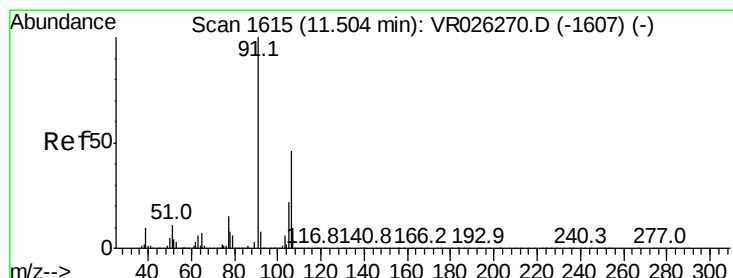
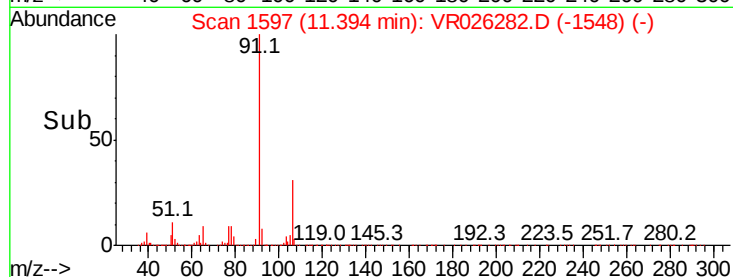
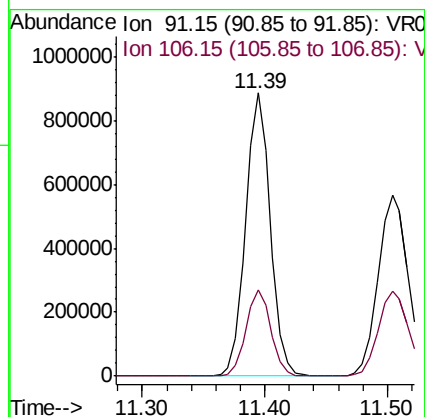
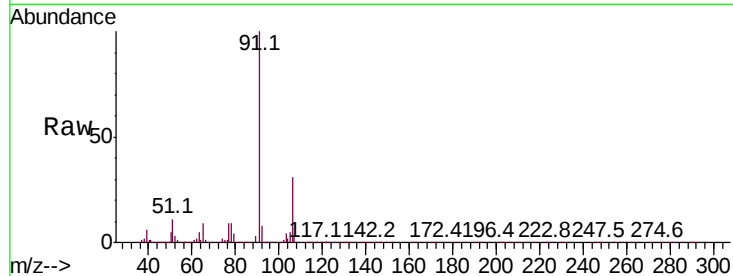
ClientSampleId :

Tot Ion: 91 Resp: 1235630

Ion Ratio Lower Upper

91 100

106 30.5 21.4 39.8



#53

m,p-Xylene

Concen: 5.266 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VR026282.D

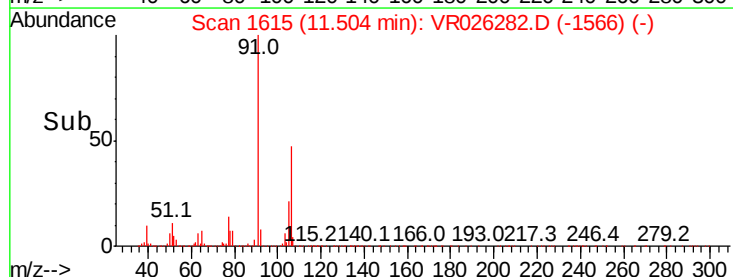
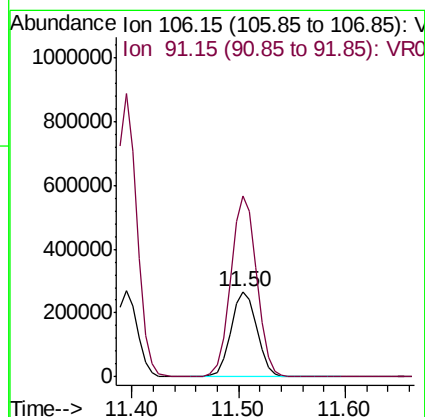
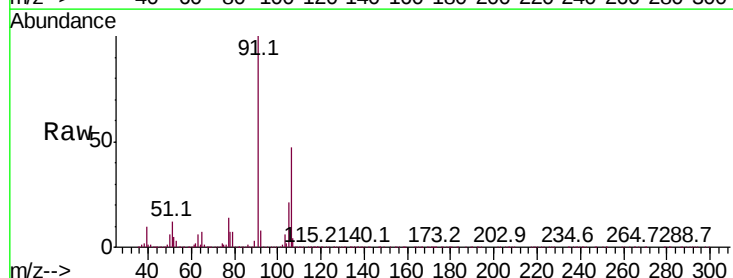
Acq: 21 Dec 2018 15:00

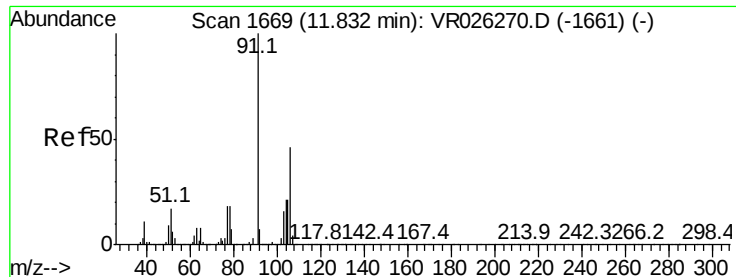
Tgt Ion: 106 Resp: 456635

Ion Ratio Lower Upper

106 100

91 210.9 145.9 271.1

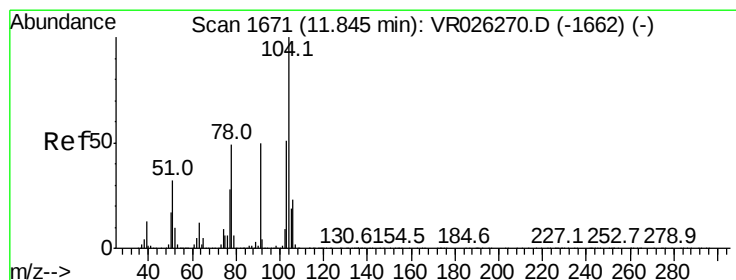
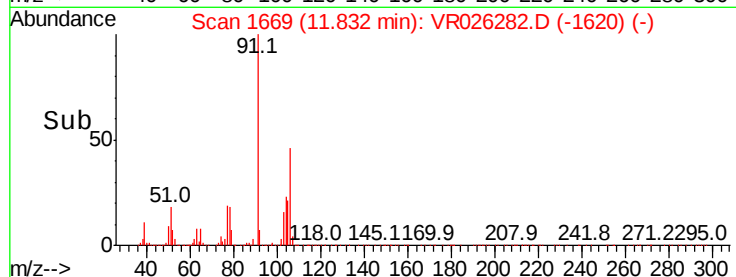
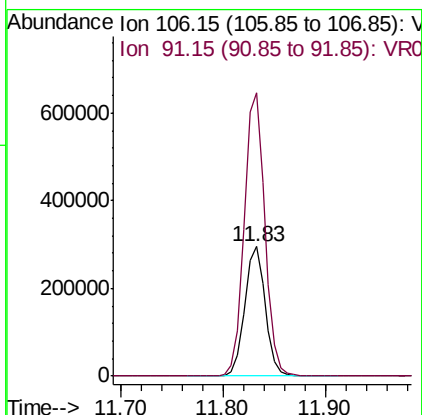
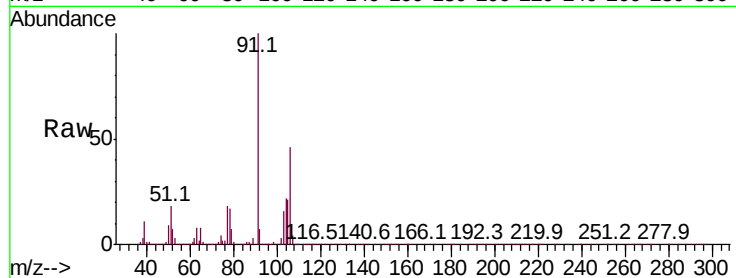




#54
o-Xylene
Concen: 5.445 ug/L
RT: 11.83 min Scan# 1669
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

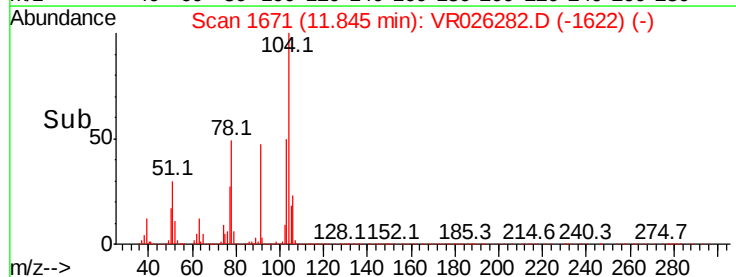
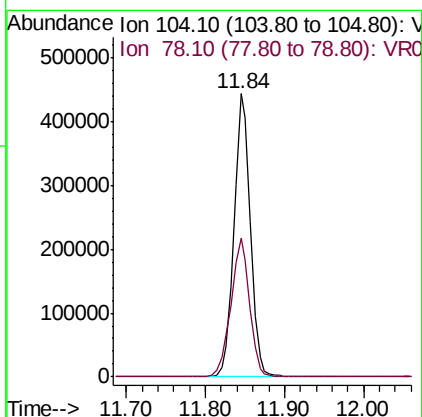
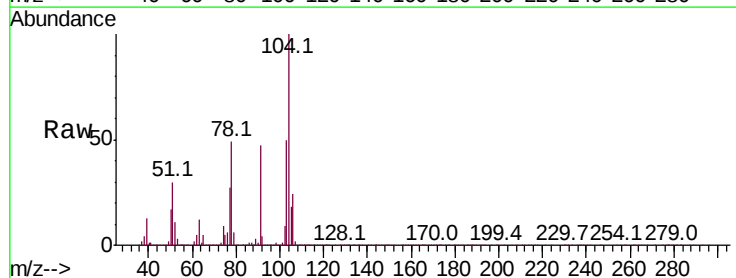
Instrument :
MSVOA_R
ClientSampled :

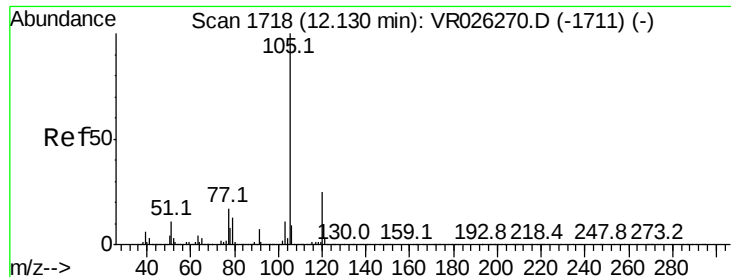
Tot Ion:106 Resp: 411384
Ion Ratio Lower Upper
106 100
91 218.5 150.4 279.4



#55
Styrene
Concen: 5.614 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VR026282.D
Acq: 21 Dec 2018 15:00

Tgt Ion:104 Resp: 640437
Ion Ratio Lower Upper
104 100
78 48.8 34.6 64.2





#56

Isopropylbenzene

Concen: 5.514 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :

MSVOA_R

ClientSampled :

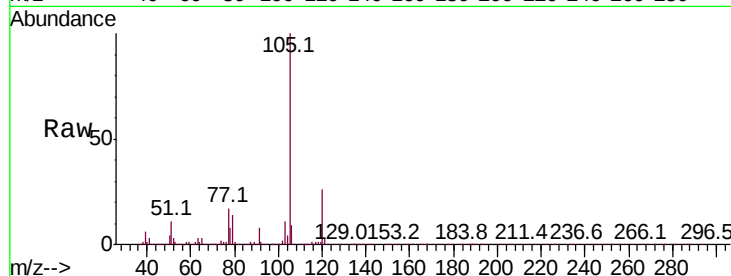
Tot Ion:105 Resp: 1184575

Ion Ratio Lower Upper

105 100

120 26.3 21.2 31.8

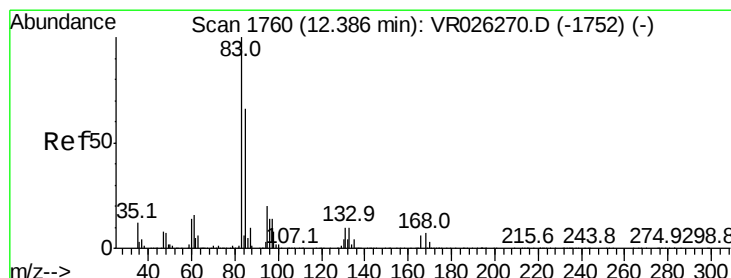
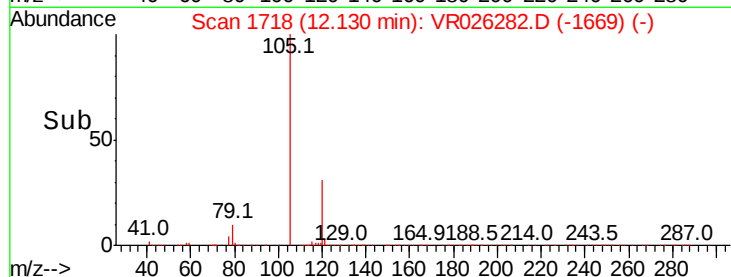
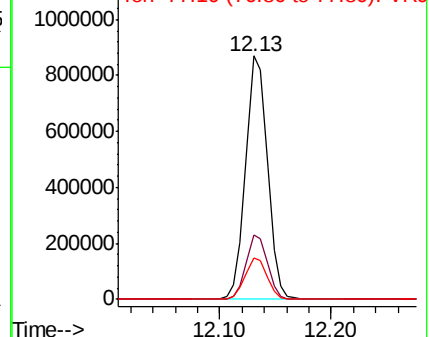
77 17.1 13.6 20.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.583 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

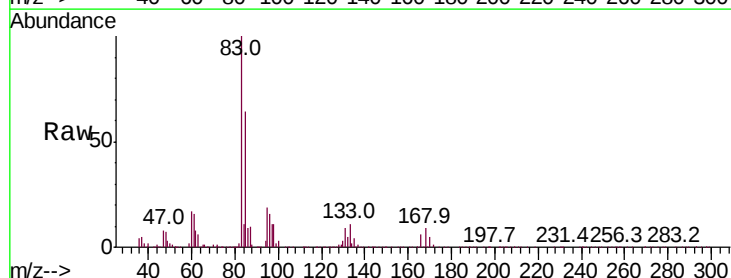
Tgt Ion: 83 Resp: 84206

Ion Ratio Lower Upper

83 100

85 64.3 46.9 87.1

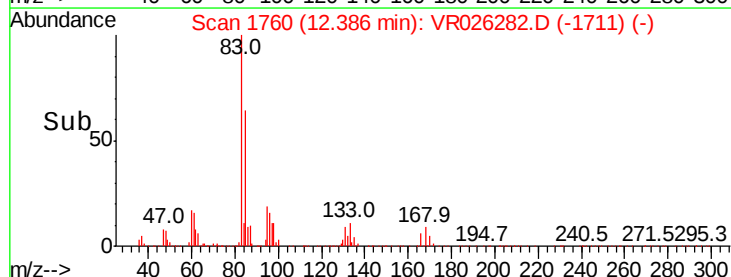
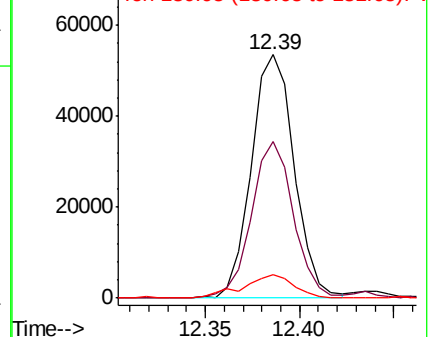
131 9.4 7.7 11.5

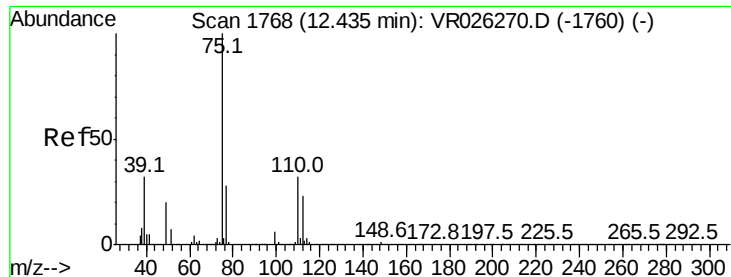


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.288 ug/L

RT: 12.44 min Scan# 1769

Delta R.T. 0.01 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :

MSVOA_R

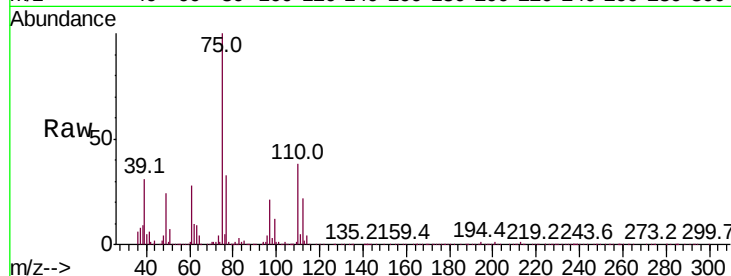
ClientSampleId :

Tot Ion: 75 Resp: 61817

Ion Ratio Lower Upper

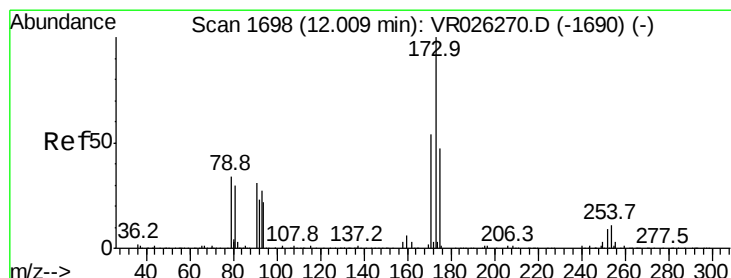
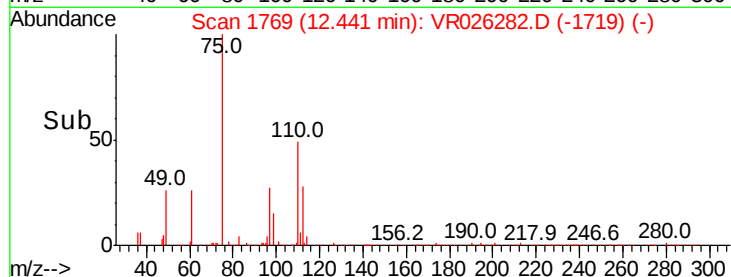
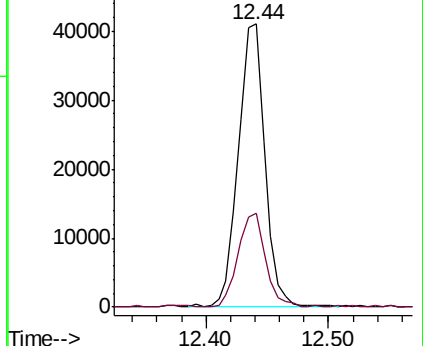
75 100

77 33.5 27.0 40.6



Abundance Ion 75.00 (74.70 to 75.70): VR0

Ion 77.00 (76.70 to 77.70): VR0



#61

Bromoform

Concen: 5.248 ug/L

RT: 12.01 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

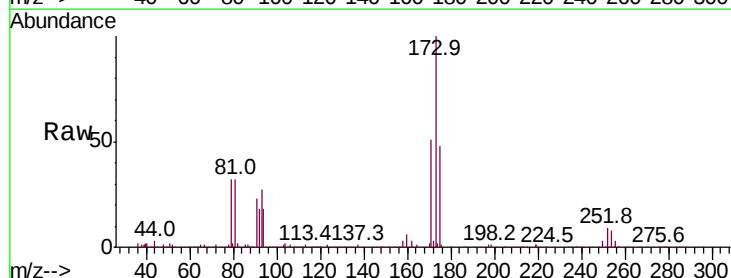
Tgt Ion:173 Resp: 47554

Ion Ratio Lower Upper

173 100

175 48.2 40.9 61.3

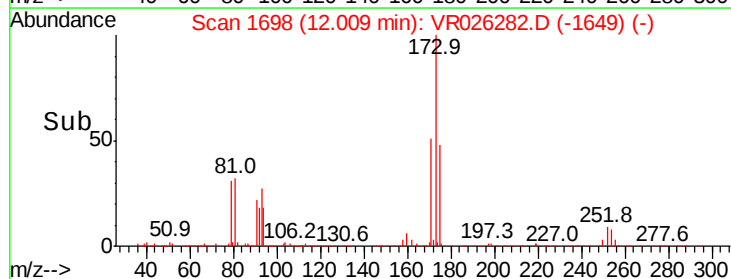
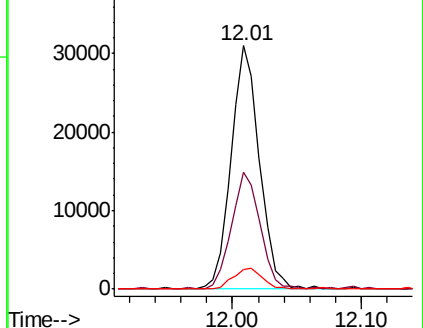
254 9.1 8.5 12.7

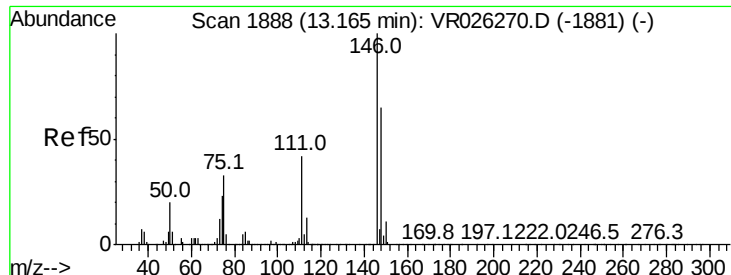


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 5.073 ug/L

RT: 13.16 min Scan# 1888

Delta R.T. -0.00 min

Lab File: VR026282.D

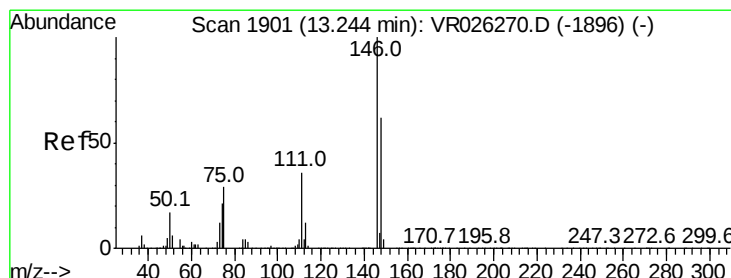
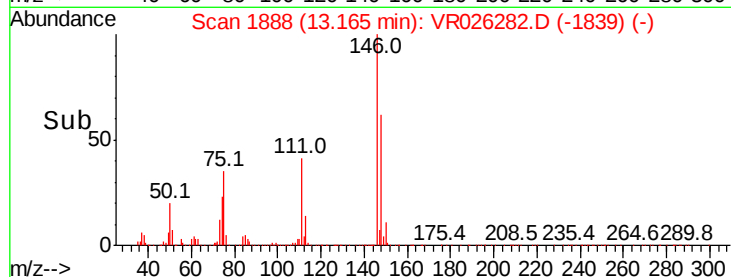
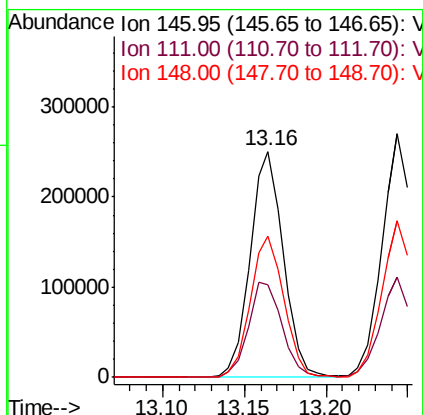
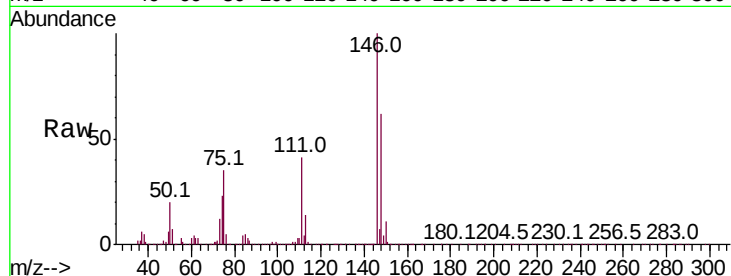
Acq: 21 Dec 2018 15:00

Instrument :

MSVOA_R

ClientSampleId :

Tot Ion:	146	Resp:	353690
Ion	Ratio	Lower	Upper
146	100		
111	41.2	30.4	56.4
148	62.5	44.4	82.5



#63

1,4-Dichlorobenzene

Concen: 4.904 ug/L

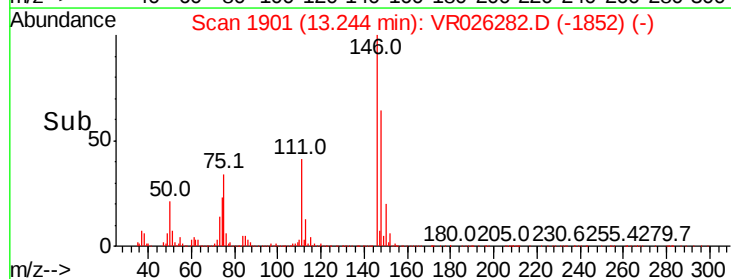
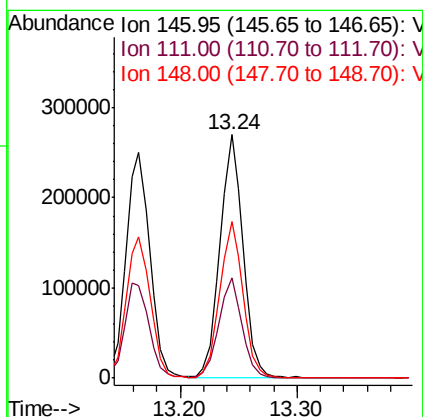
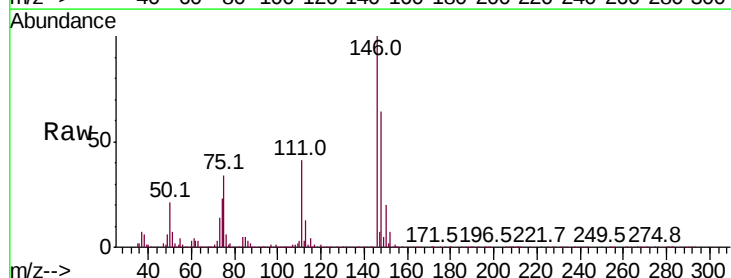
RT: 13.24 min Scan# 1901

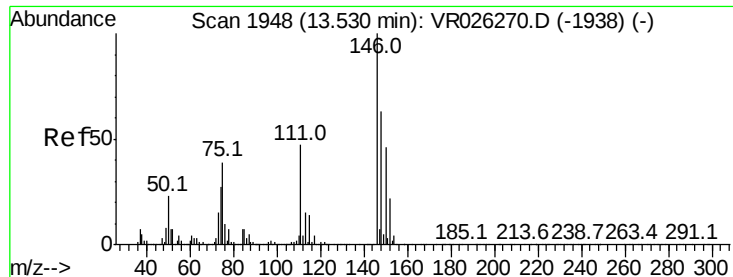
Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Tgt Ion:	146	Resp:	367212
Ion	Ratio	Lower	Upper
146	100		
111	41.2	29.0	53.9
148	64.4	46.7	86.7

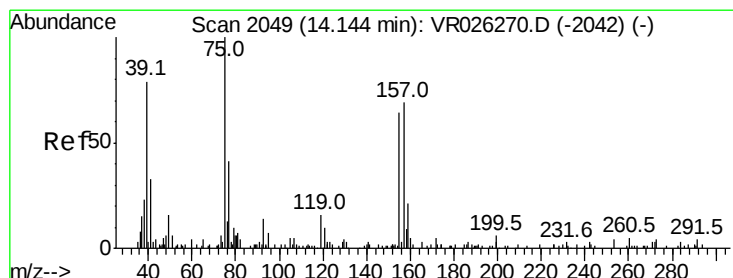
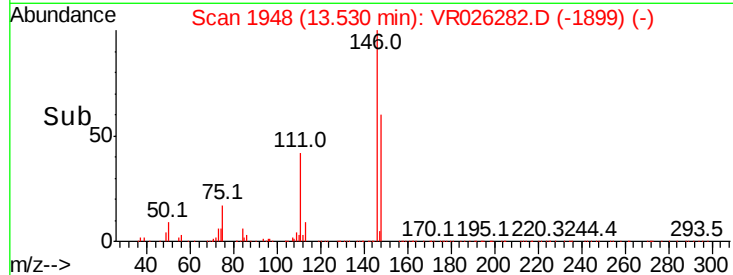
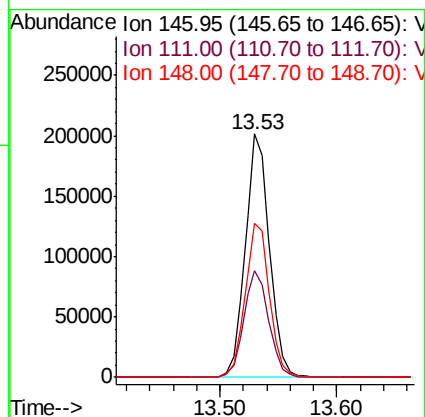
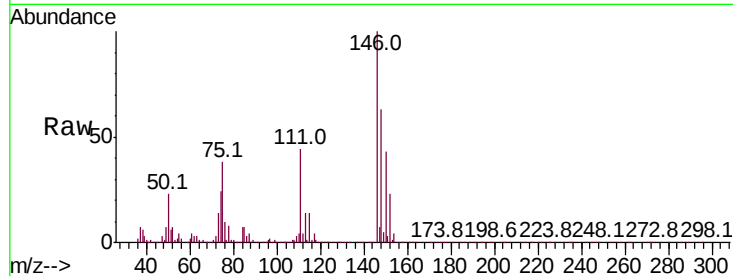




#65
 1,2-Dichlorobenzene
 Concen: 5.121 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

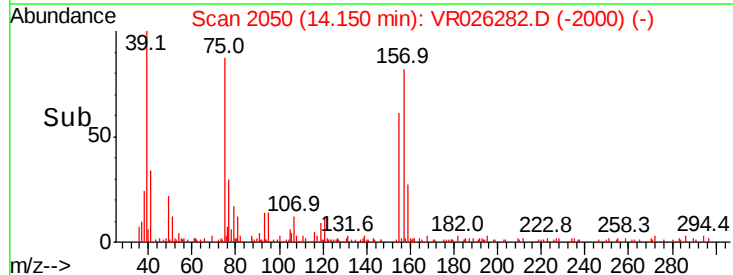
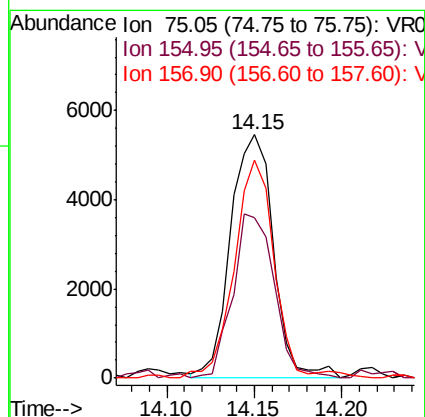
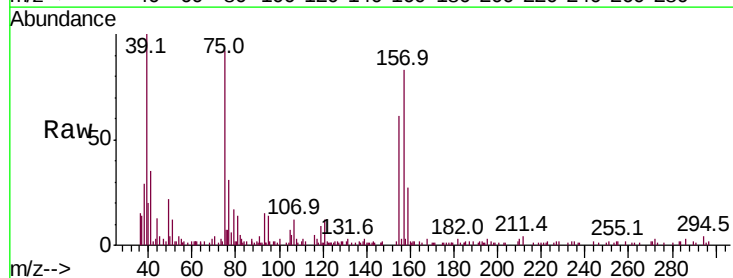
Instrument :
 MSVOA_R
 ClientSampleId :

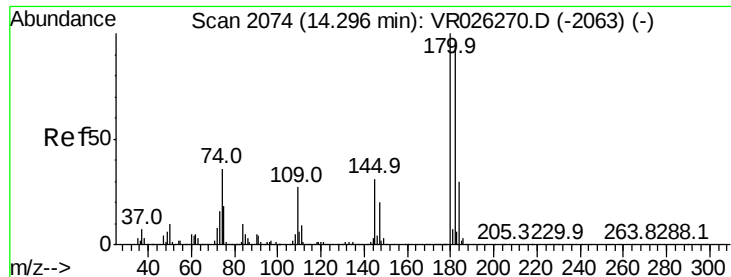
Tot Ion	Ratio	Lower	Upper
146	100		
111	44.0	34.6	52.0
148	63.2	51.0	76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.615 ug/L
 RT: 14.15 min Scan# 2050
 Delta R.T. 0.01 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	65.6	44.4	66.6
157	89.7	66.3	99.5

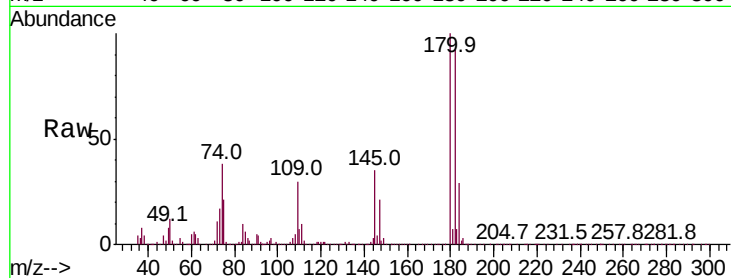




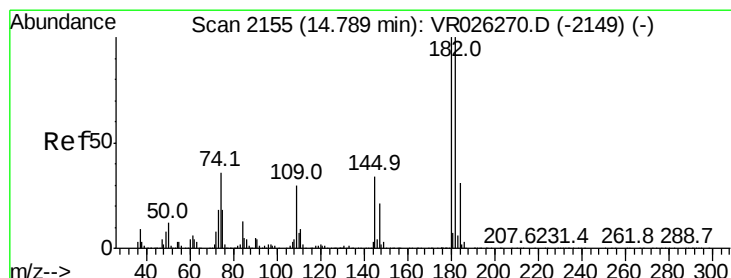
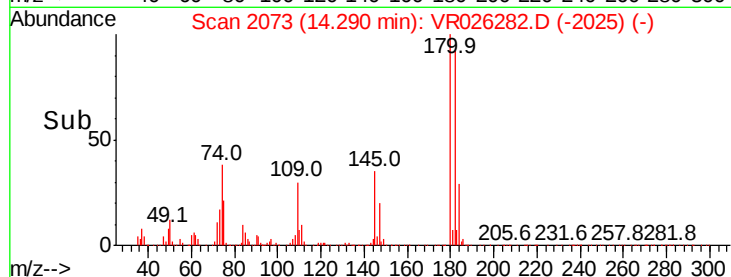
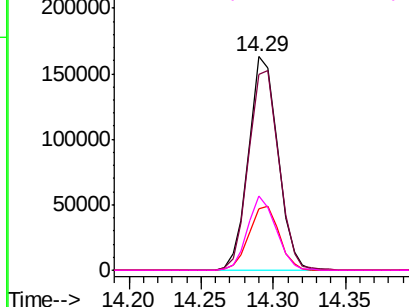
#67
 1,3,5-Trichlorobenzene
 Concen: 5.138 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. -0.01 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

Instrument :
 MSVOA_R
 ClientSampled :

Tot Ion:	180	Resp:	229403
Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.3	115.9
184	31.2	24.4	36.6
145	33.9	26.6	40.0

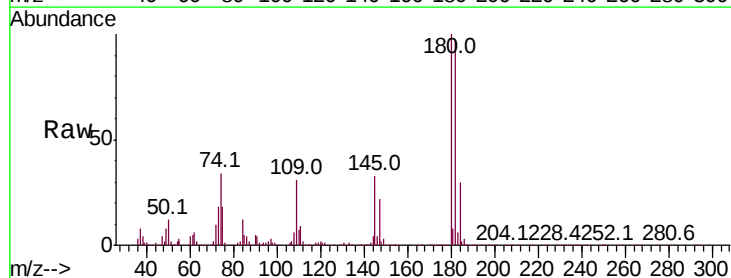


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

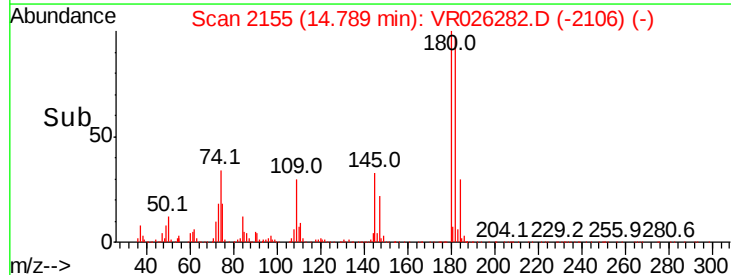
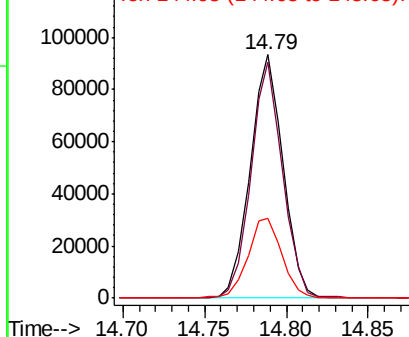


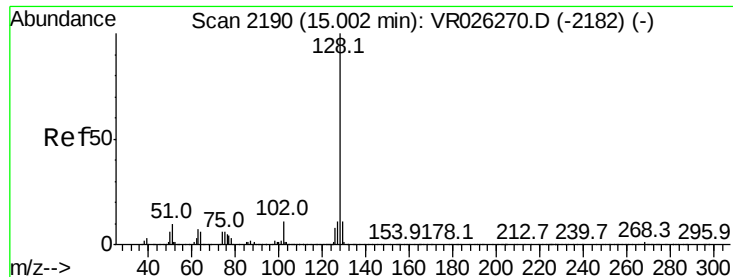
#68
 1,2,4-trichlorobenzene
 Concen: 5.384 ug/L
 RT: 14.79 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VR026282.D
 Acq: 21 Dec 2018 15:00

Tgt Ion:	180	Resp:	130599
Ion	Ratio	Lower	Upper
180	100		
182	93.4	75.8	113.6
145	34.2	27.0	40.4



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.476 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

Instrument :

MSVOA_R

ClientSampleId :

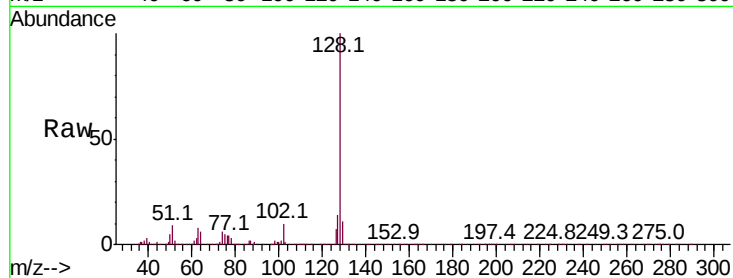
Tot Ion:128 Resp: 119318

Ion Ratio Lower Upper

128 100

127 12.9 11.1 16.7

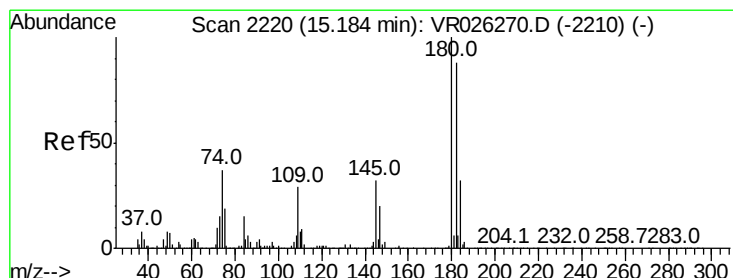
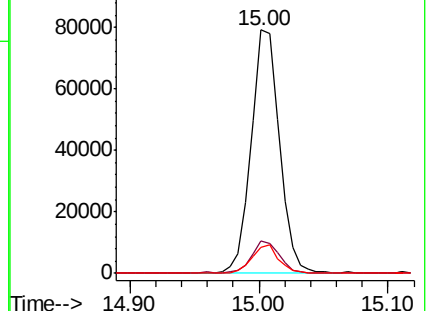
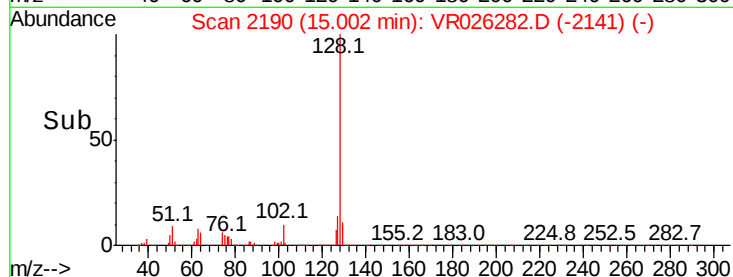
129 11.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.527 ug/L

RT: 15.18 min Scan# 2220

Delta R.T. -0.00 min

Lab File: VR026282.D

Acq: 21 Dec 2018 15:00

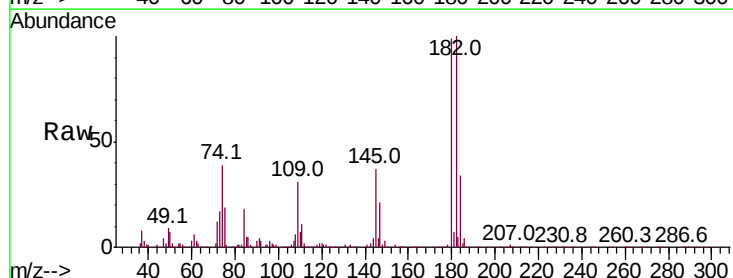
Tgt Ion:180 Resp: 92964

Ion Ratio Lower Upper

180 100

182 98.5 75.1 112.7

145 36.7 25.8 38.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

