

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR091119\
 Data File : VR026619.D
 Acq On : 11 Sep 2019 13:43
 Operator : SY/MD
 Sample : MDL02
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL02

Quant Time: Sep 12 09:07:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091019WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Sep 12 08:46:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.48	114	430780	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.30	117	337365	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.24	152	142268	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.19	65	58488	4.40	ug/L	0.02
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.00%
7) Chloroethane-d5	2.65	69	53836	4.77	ug/L	0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.40%
11) 1,1-Dichloroethene-d2	3.65	63	98718	3.14	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.80%
20) 2-Butanone-d5	6.62	46	119378	41.24	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	82.48%
24) Chloroform-d	7.23	84	204135	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	7.91	65	68423	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.40%
32) Benzene-d6	7.88	84	395014	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.60%
36) 1,2-Dichloropropane-d6	8.92	67	107315	4.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.40%
41) Toluene-d8	9.99	98	307262	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.80%
43) trans-1,3-Dichloropropene-	10.25	79	22067	3.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.40%
46) 2-Hexanone-d5	10.61	63	73037	39.66	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	79.32%
57) 1,1,2,2-Tetrachloroethane-	12.38	84	49120	4.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.40%
64) 1,2-Dichlorobenzene-d4	13.53	152	86893	4.62	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.86	85	13470	0.309	ug/L #	85
3) Chloromethane	2.06	50	8613	0.330	ug/L	99
5) Vinyl chloride	2.20	62	7581m	0.307	ug/L	
6) Bromomethane	2.55	94	5304	0.374	ug/L	89
8) Chloroethane	2.68	64	4690m	0.336	ug/L	
9) Trichlorofluoromethane	2.96	101	12797m	0.344	ug/L	
10) 1,1,2-Trichloro-1,2,2-trif	3.69	101	6436m	0.396	ug/L	
12) 1,1-Dichloroethene	3.64	96	4942	0.293	ug/L #	1
13) Acetone	3.72	43	5947m	3.343	ug/L	
14) Carbon disulfide	3.97	76	24564	0.365	ug/L	99
15) Methyl Acetate	4.23	43	2736	0.346	ug/L #	75
16) Methylene chloride	4.43	84	13112	0.370	ug/L #	84
17) Methyl tert-butyl Ether	4.92	73	9759m	0.230	ug/L	
18) trans-1,2-Dichloroethene	4.90	96	11410	0.314	ug/L	74
19) 1,1-Dichloroethane	5.72	63	18823	0.272	ug/L	98
21) 2-Butanone	6.73	43	10283	2.799	ug/L	91
22) cis-1,2-Dichloroethene	6.70	96	10165	0.284	ug/L #	87

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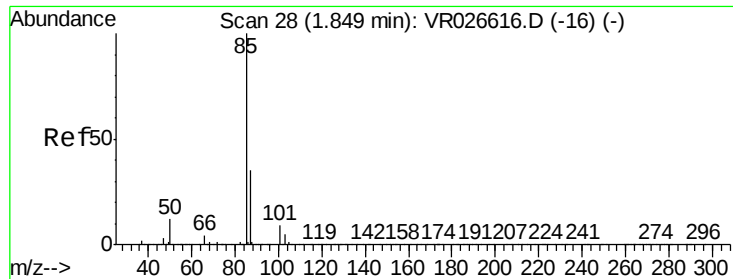
Instrument :
 MSVOA_R
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Quant Time: Sep 12 09:07:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR091019WMA.M
 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	7.08	128	2571	0.267	ug/L #	18
25) Chloroform	7.26	83	25122	0.394	ug/L	87
27) 1,2-Dichloroethane	8.01	62	6275	0.269	ug/L #	73
29) 1,1,1-Trichloroethane	7.45	97	12256	0.240	ug/L #	85
30) Cyclohexane	7.54	56	14540	0.239	ug/L	95
31) Carbon tetrachloride	7.66	117	11592	0.274	ug/L	90
33) Benzene	7.93	78	41221	0.276	ug/L	100
34) Trichloroethene	8.73	95	9436	0.256	ug/L	85
35) Methylcyclohexane	8.97	83	14482	0.261	ug/L	93
37) 1,2-Dichloropropane	9.01	63	7739	0.260	ug/L #	87
38) Bromodichloromethane	9.30	83	7158	0.233	ug/L	95
39) cis-1,3-Dichloropropene	9.73	75	8644	0.267	ug/L	99
40) 4-Methyl-2-pentanone	9.88	43	17247	2.025	ug/L #	88
42) Toluene	10.06	91	34157	0.256	ug/L	93
44) trans-1,3-Dichloropropene	10.28	75	6534m	0.325	ug/L	
45) 1,1,2-Trichloroethane	10.46	97	3422	0.275	ug/L	94
47) Tetrachloroethene	10.53	164	6670	0.322	ug/L	84
48) 2-Hexanone	10.65	43	14523	2.868	ug/L	90
49) Dibromochloromethane	10.80	129	3528	0.272	ug/L	87
50) 1,2-Dibromoethane	10.91	107	3023	0.290	ug/L #	95
51) Chlorobenzene	11.33	112	20006	0.278	ug/L	97
52) Ethylbenzene	11.41	91	36033	0.246	ug/L	91
53) m,p-Xylene	11.52	106	13571	0.253	ug/L	90
54) o-Xylene	11.84	106	12602	0.242	ug/L	62
55) Styrene	11.86	104	15918	0.221	ug/L	80
56) Isopropylbenzene	12.15	105	36836	0.254	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.40	83	4381	0.309	ug/L #	97
59) 1,2,3-Trichloropropane	12.46	75	3347m	0.326	ug/L	
61) Bromoform	12.03	173	1560	0.299	ug/L #	78
62) 1,3-Dichlorobenzene	13.18	146	13128	0.271	ug/L	93
63) 1,4-Dichlorobenzene	13.26	146	13935	0.299	ug/L	96
65) 1,2-Dichlorobenzene	13.55	146	12283	0.304	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.16	75	547	0.266	ug/L #	78
67) 1,3,5-Trichlorobenzene	14.31	180	12084	0.309	ug/L	97
68) 1,2,4-trichlorobenzene	14.80	180	8256	0.289	ug/L	98
69) Naphthalene	15.01	128	8952	0.223	ug/L #	94
70) 1,2,3-Trichlorobenzene	15.20	180	6953	0.290	ug/L #	96

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



#2

Dichlorodifluoromethane

Concen: 0.309 ug/L

RT: 1.86 min Scan# 29

Delta R.T. 0.01 min

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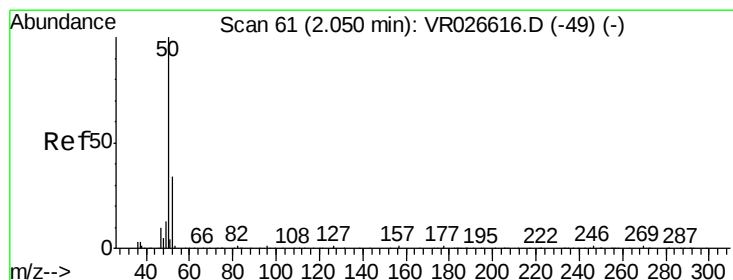
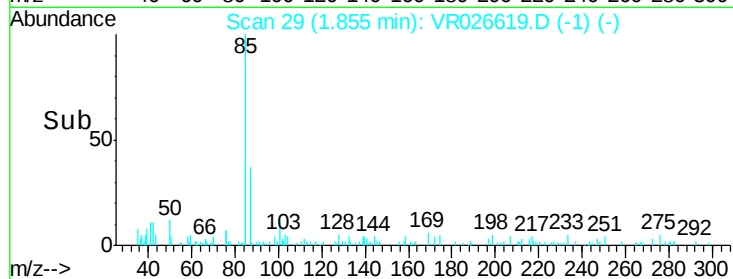
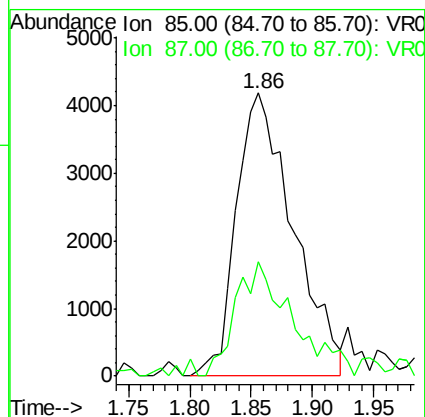
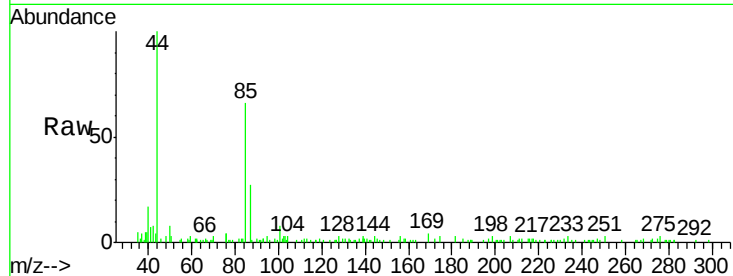
MDL02

Tot Ion: 85 Resp: 13470

Ion Ratio Lower Upper

85 100

87 40.3 25.4 38.2#



#3

Chloromethane

Concen: 0.330 ug/L

RT: 2.06 min Scan# 62

Delta R.T. 0.01 min

Lab File: VR026619.D

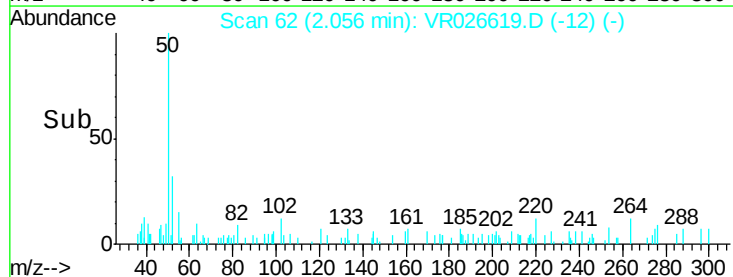
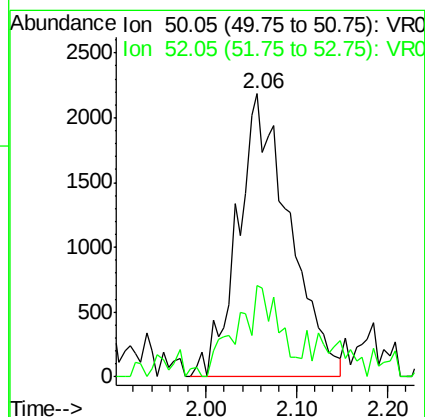
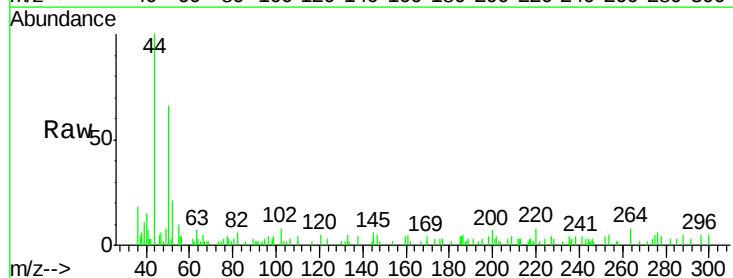
Acq: 11 Sep 2019 13:43

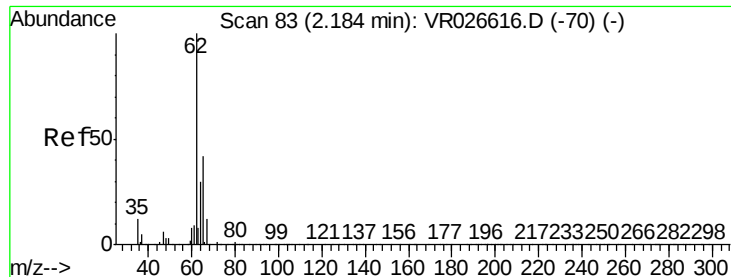
Tgt Ion: 50 Resp: 8613

Ion Ratio Lower Upper

50 100

52 32.2 22.2 41.2





#5

Vinyl chloride

Concen: 0.307 ug/L m

RT: 2.20 min Scan# 86

Delta R.T. 0.02 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

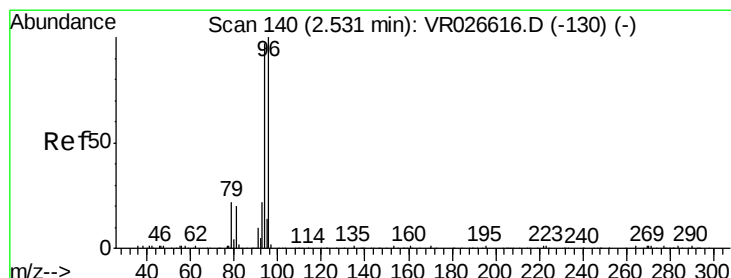
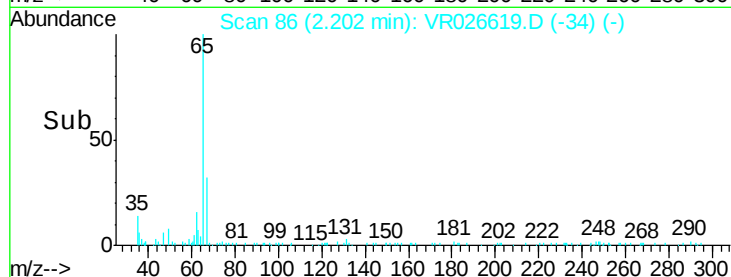
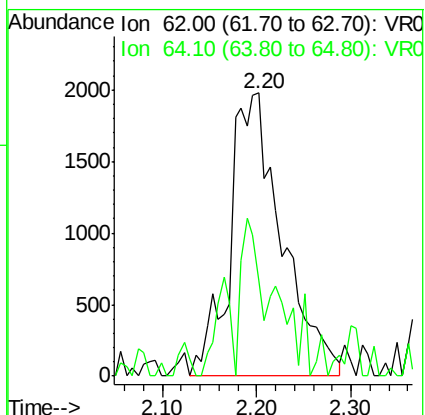
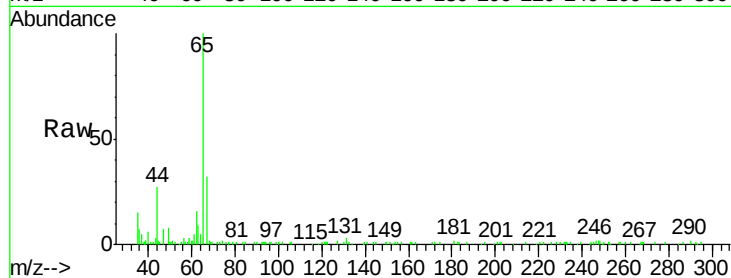
MDL02

Tot Ion: 62 Resp: 7581

Ion Ratio Lower Upper

62 100

64 33.7 25.4 47.2



#6

Bromomethane

Concen: 0.374 ug/L

RT: 2.55 min Scan# 143

Delta R.T. 0.02 min

Lab File: VR026619.D

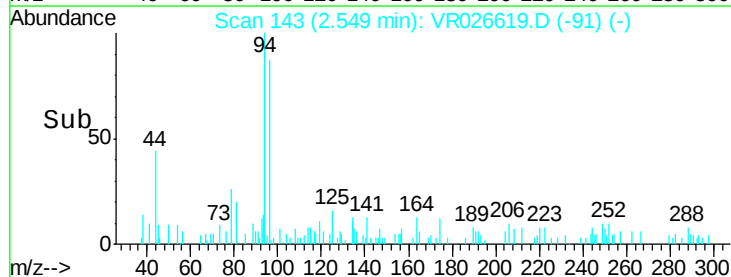
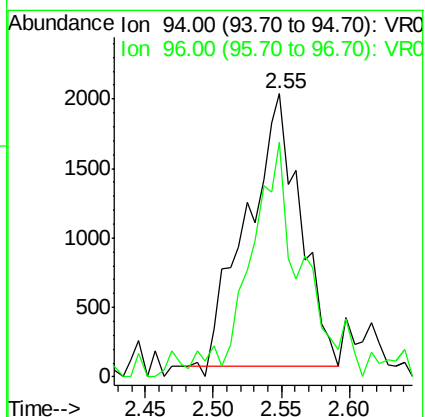
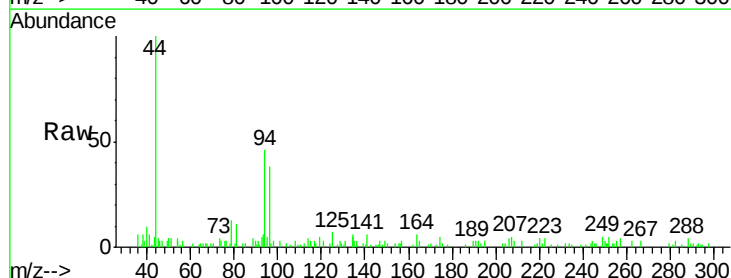
Acq: 11 Sep 2019 13:43

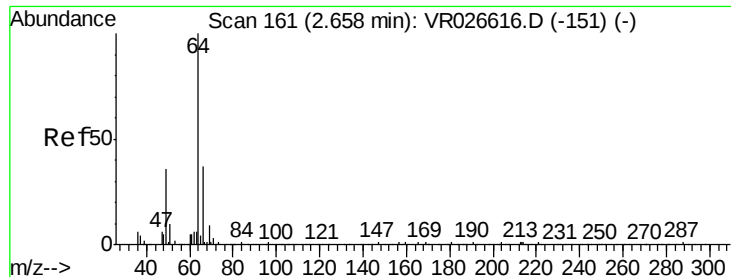
Tgt Ion: 94 Resp: 5304

Ion Ratio Lower Upper

94 100

96 82.8 65.7 122.1





#8

Chloroethane

Concen: 0.336 ug/L m

RT: 2.68 min Scan# 164

Delta R.T. 0.02 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampled :

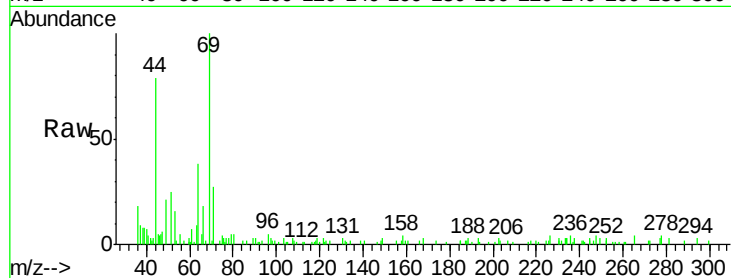
MDL02

Tot Ion: 64 Resp: 4690

Ion Ratio Lower Upper

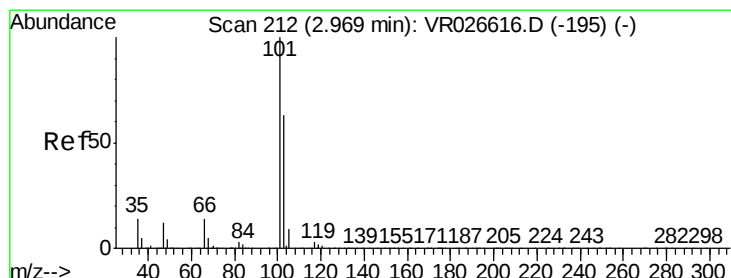
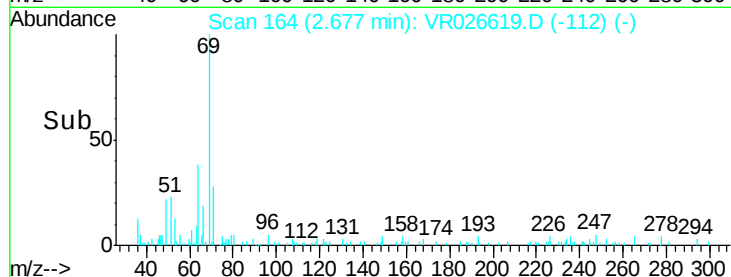
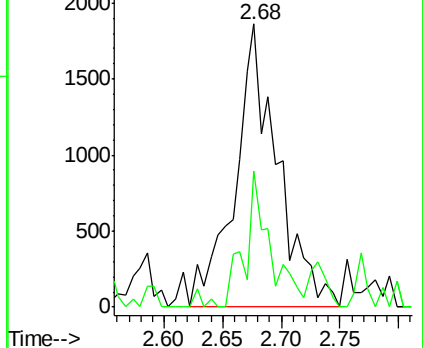
64 100

66 48.2 25.1 46.5#



Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0



#9

Trichlorofluoromethane

Concen: 0.344 ug/L m

RT: 2.96 min Scan# 211

Delta R.T. -0.01 min

Lab File: VR026619.D

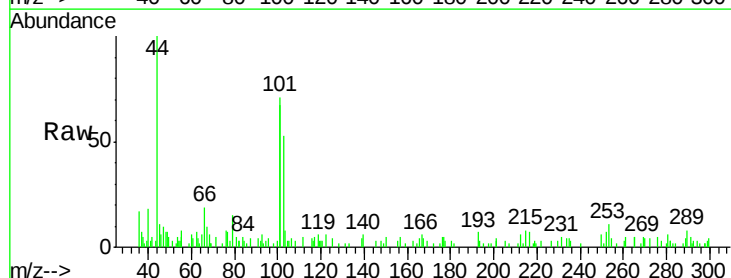
Acq: 11 Sep 2019 13:43

Tgt Ion: 101 Resp: 12797

Ion Ratio Lower Upper

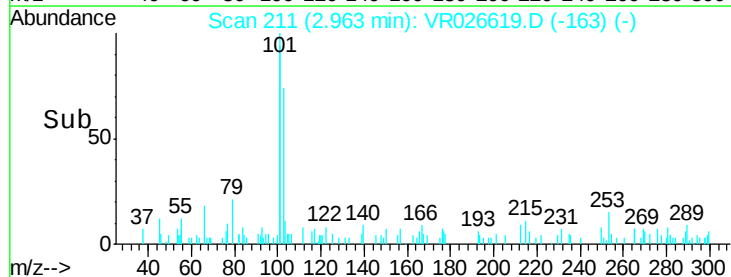
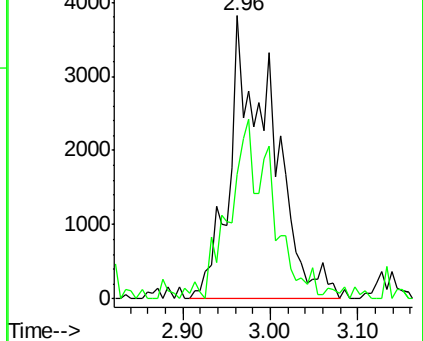
101 100

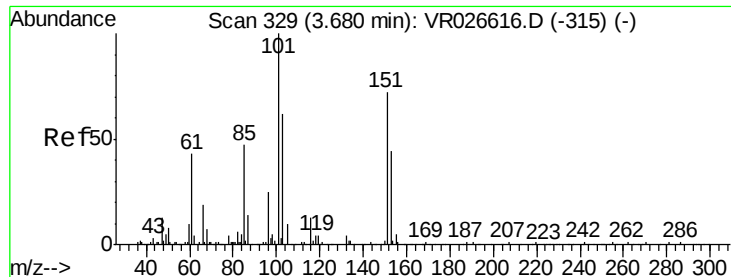
103 40.5 51.1 76.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.396 ug/L m

RT: 3.69 min Scan# 331

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

MDL02

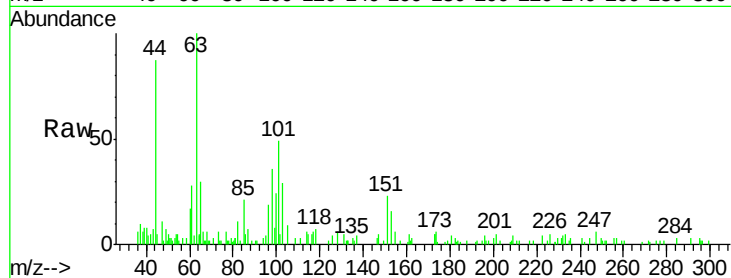
Tot Ion:101 Resp: 6436

Ion Ratio Lower Upper

101 100

85 30.6 40.6 61.0#

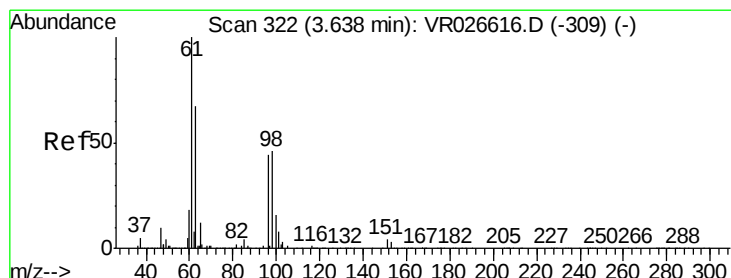
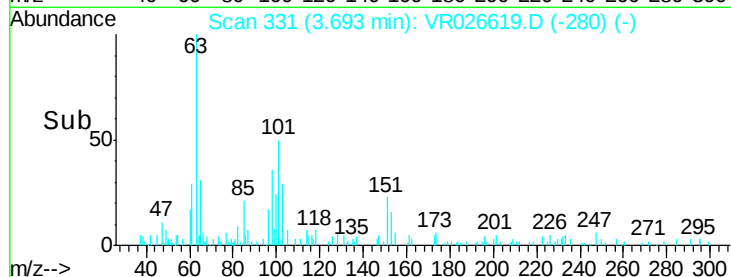
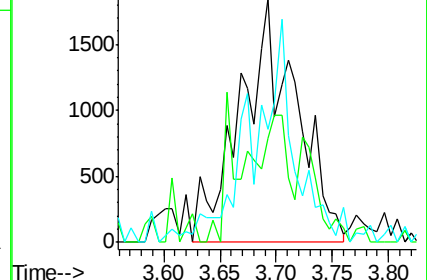
151 40.4 58.6 87.8#



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: 0.293 ug/L

RT: 3.64 min Scan# 323

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

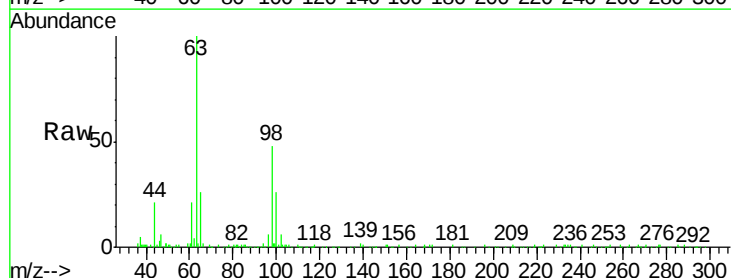
Tgt Ion: 96 Resp: 4942

Ion Ratio Lower Upper

96 100

61 336.4 137.8 255.8#

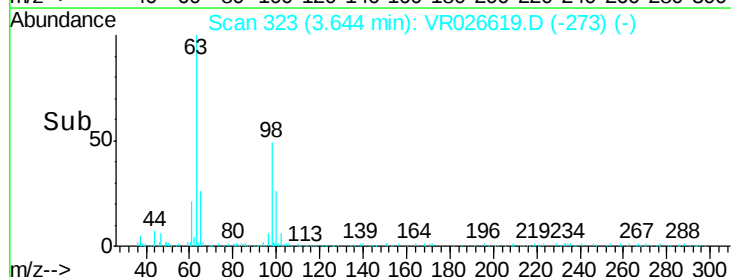
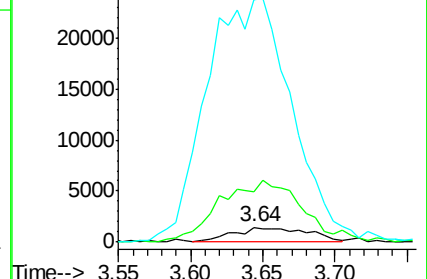
63 1623.0 108.6 201.8#

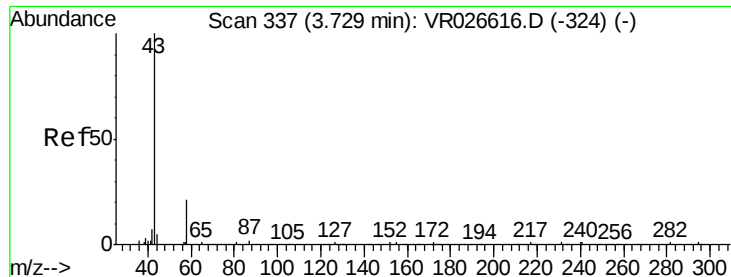


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 3.343 ug/L m

RT: 3.72 min Scan# 336

Delta R.T. -0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

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ClientSampleId :

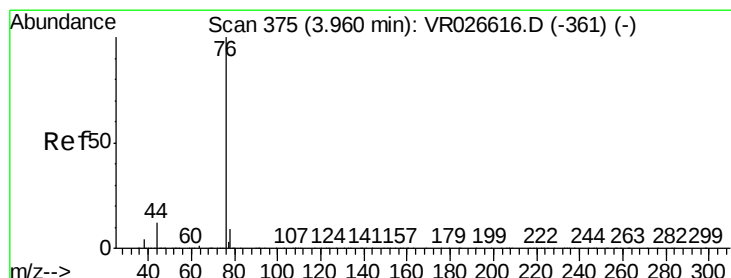
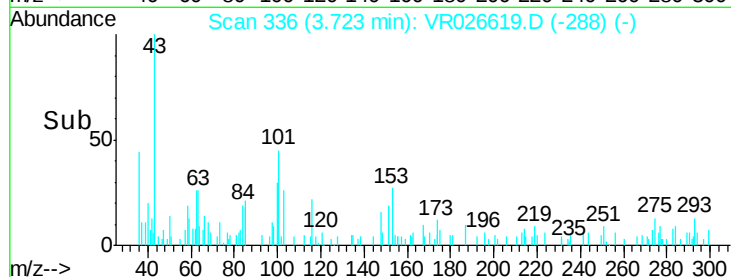
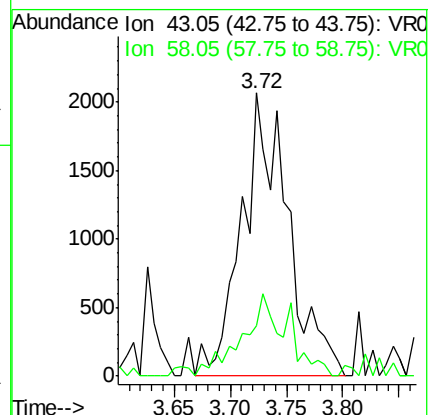
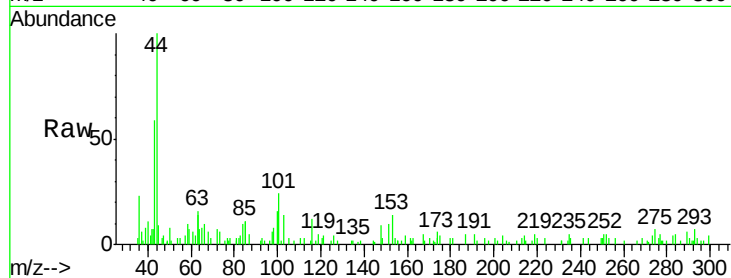
MDL02

Tot Ion: 43 Resp: 5947

Ion Ratio Lower Upper

43 100

58 1.0 0.0 46.2



#14

Carbon disulfide

Concen: 0.365 ug/L

RT: 3.97 min Scan# 377

Delta R.T. 0.01 min

Lab File: VR026619.D

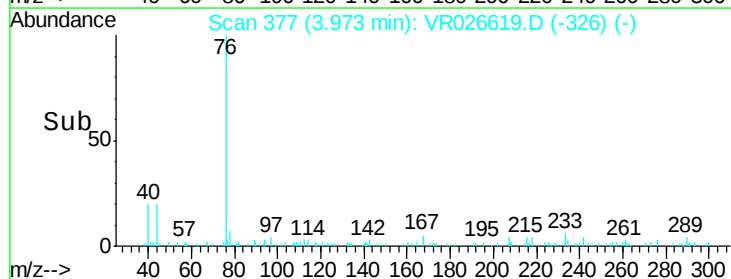
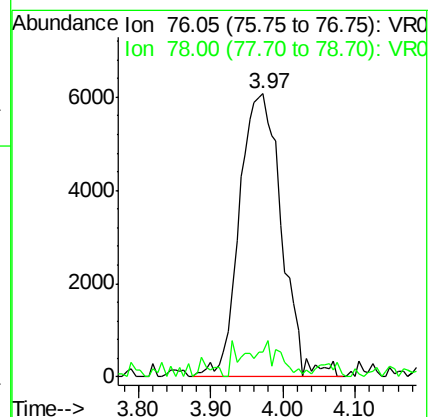
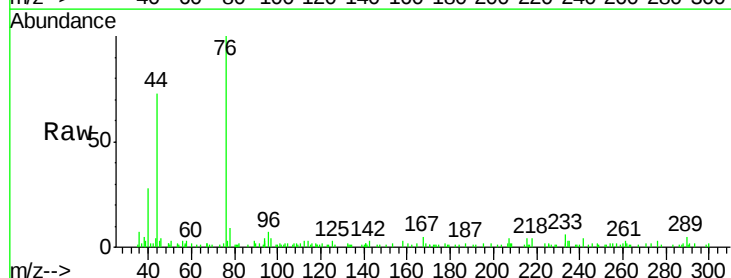
Acq: 11 Sep 2019 13:43

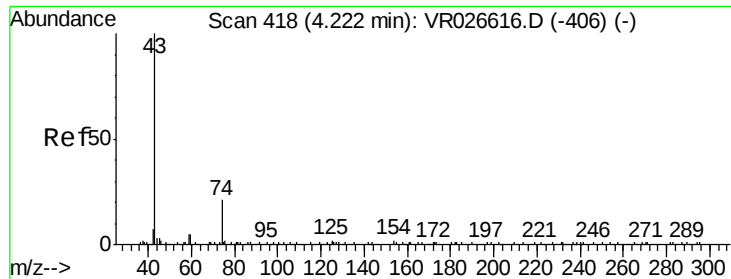
Tgt Ion: 76 Resp: 24564

Ion Ratio Lower Upper

76 100

78 8.6 7.3 10.9





#15

Methyl Acetate

Concen: 0.346 ug/L

RT: 4.23 min Scan# 419

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampled :

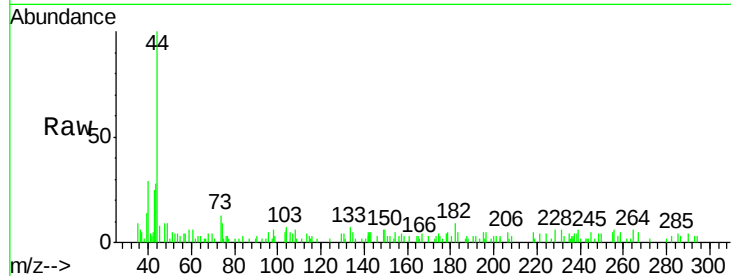
MDL02

Tot Ion: 43 Resp: 2736

Ion Ratio Lower Upper

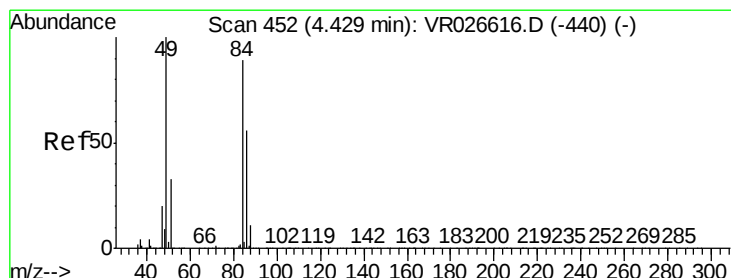
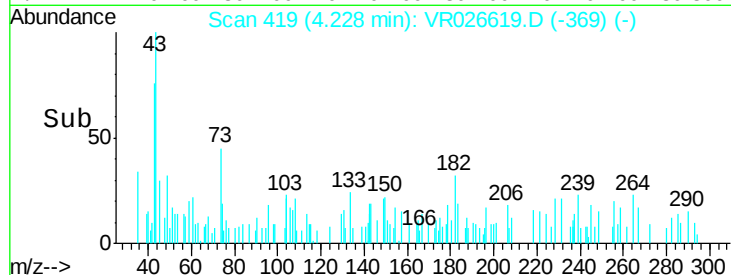
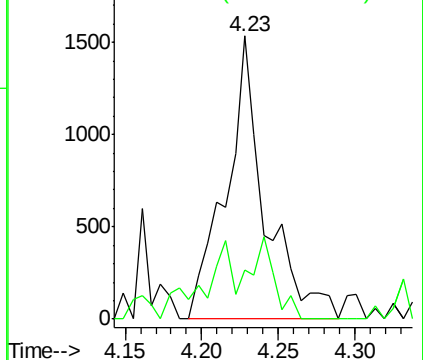
43 100

74 11.8 19.4 29.2#



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 74.05 (73.75 to 74.75): VR0



#16

Methylene chloride

Concen: 0.370 ug/L

RT: 4.43 min Scan# 453

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

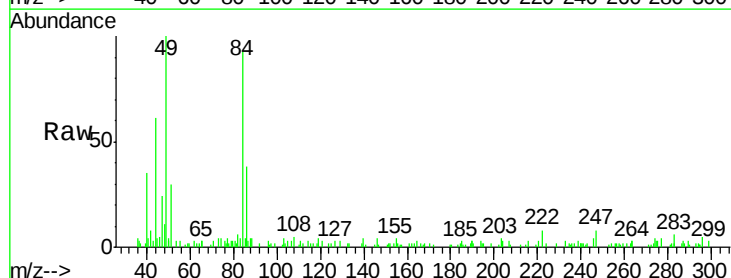
Tgt Ion: 84 Resp: 13112

Ion Ratio Lower Upper

84 100

86 40.9 43.6 81.0#

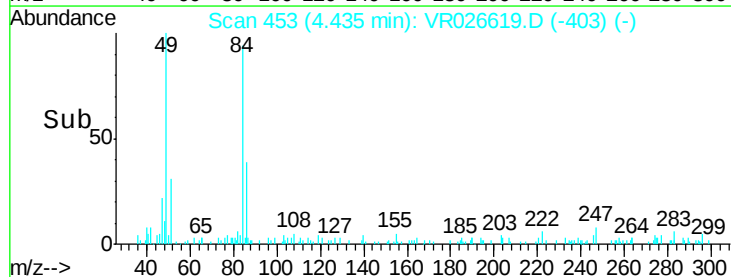
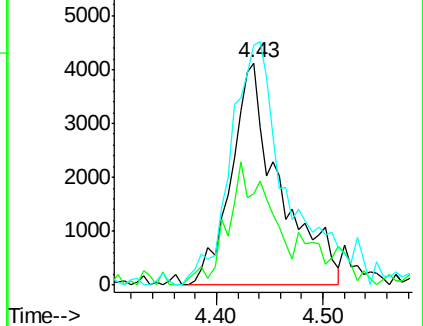
49 112.1 85.9 159.5

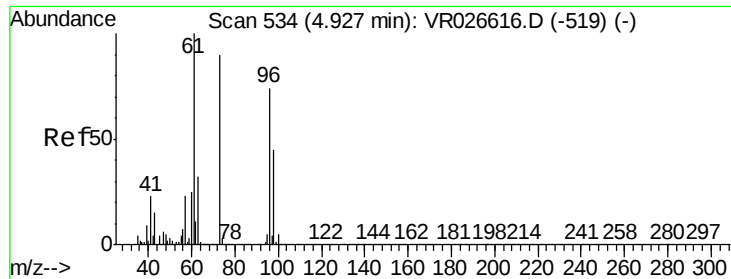


Abundance Ion 84.05 (83.75 to 84.75): VR0

Ion 86.00 (85.70 to 86.70): VR0

Ion 49.10 (48.80 to 49.80): VR0

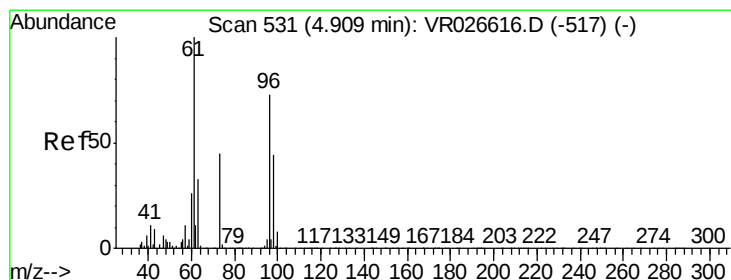
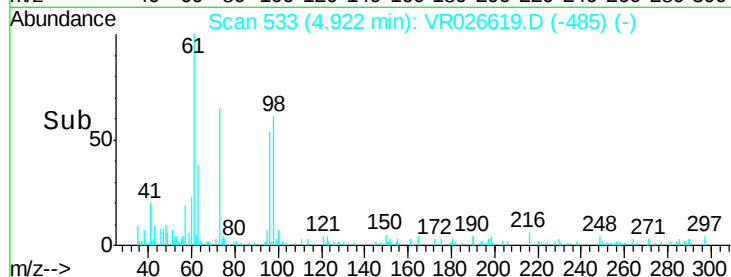
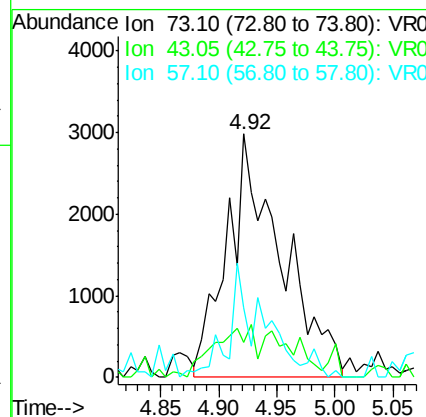
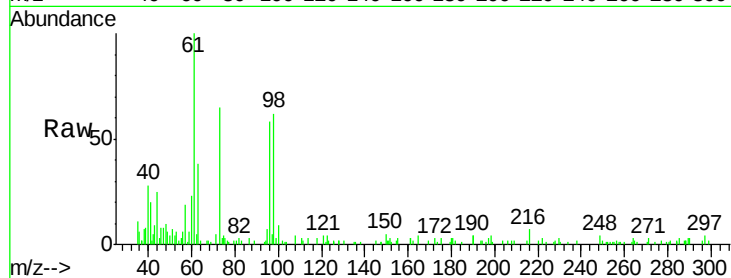




#17
Methvl tert-butvl Ether
Concen: 0.230 ug/L m
RT: 4.92 min Scan# 533
Delta R.T. -0.01 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

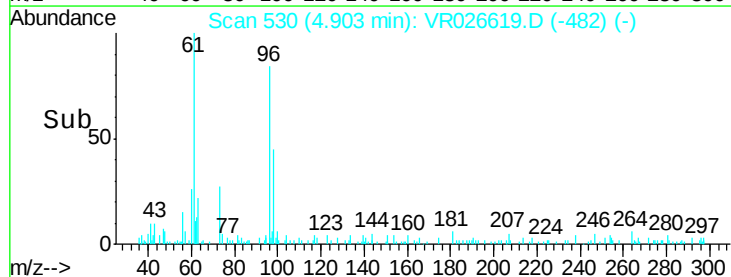
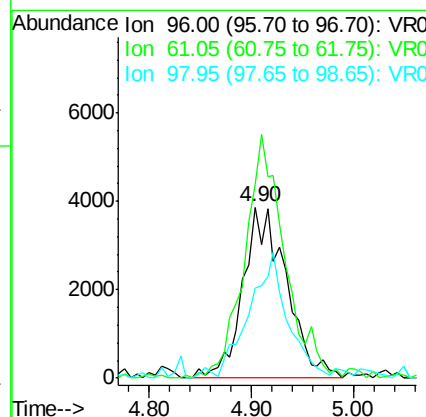
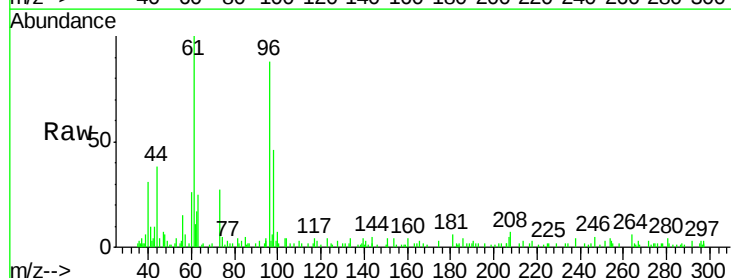
Instrument :
MSVOA_R
ClientSampleId :
MDL02

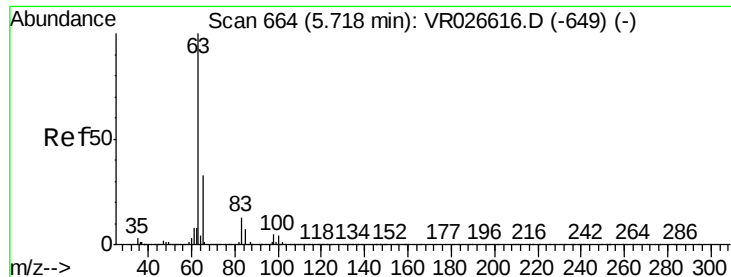
Tot Ion	Ratio	Lower	Upper
73	100		
43	15.2	15.4	23.2#
57	13.1	19.0	28.4#



#18
trans-1,2-Dichloroethene
Concen: 0.314 ug/L
RT: 4.90 min Scan# 530
Delta R.T. -0.01 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	113.7	106.7	198.1
98	52.6	45.4	84.4

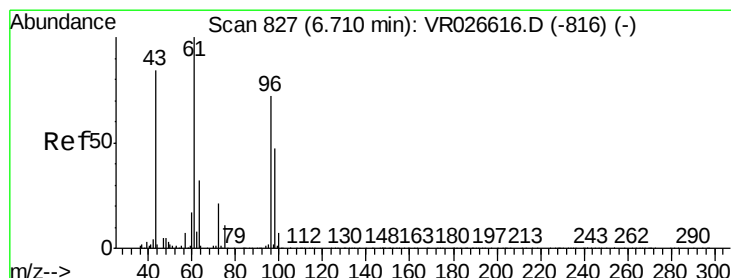
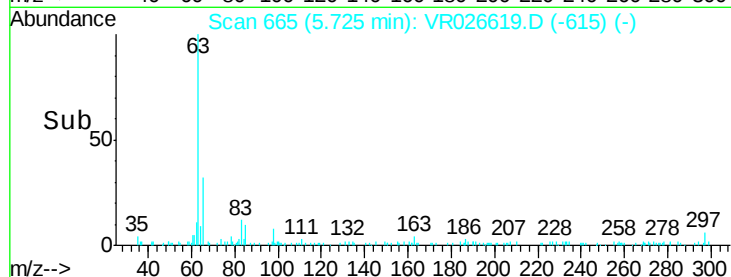
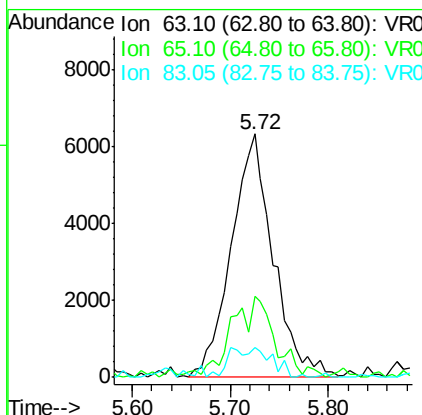
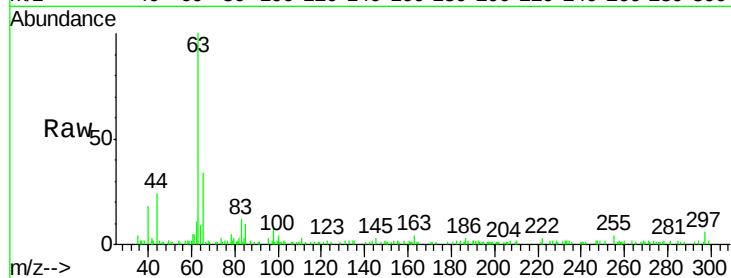




#19
 1,1-Dichloroethane
 Concen: 0.272 ug/L
 RT: 5.72 min Scan# 665
 Delta R.T. 0.01 min
 Lab File: VR026619.D
 Acq: 11 Sep 2019 13:43

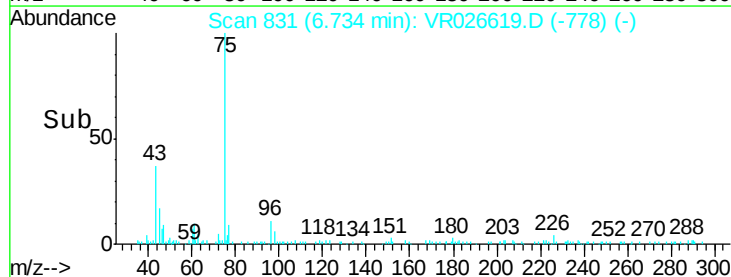
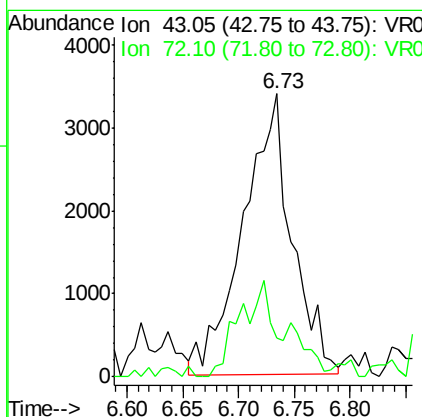
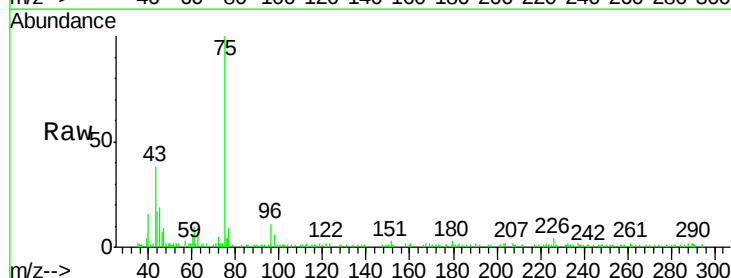
Instrument :
 MSVOA_R
 ClientSampleId :
 MDL02

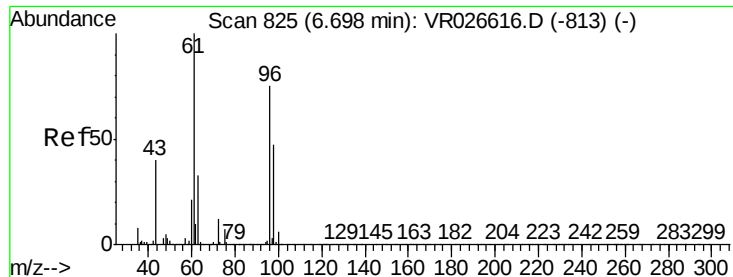
Tot Ion: 63 Resp: 18823
 Ion Ratio Lower Upper
 63 100
 65 33.5 23.2 43.0
 83 12.1 9.5 17.7



#21
 2-Butanone
 Concen: 2.799 ug/L
 RT: 6.73 min Scan# 831
 Delta R.T. 0.02 min
 Lab File: VR026619.D
 Acq: 11 Sep 2019 13:43

Tgt Ion: 43 Resp: 10283
 Ion Ratio Lower Upper
 43 100
 72 23.8 14.2 42.6



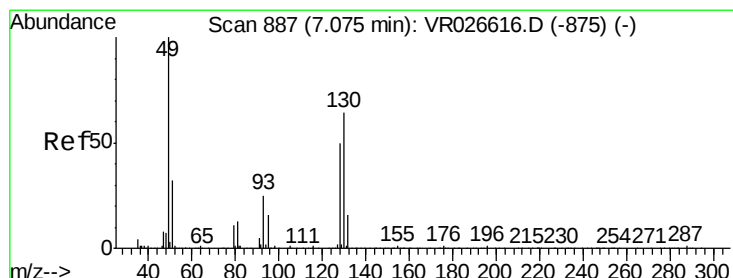
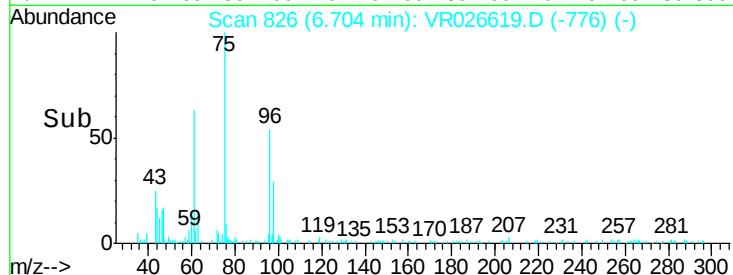
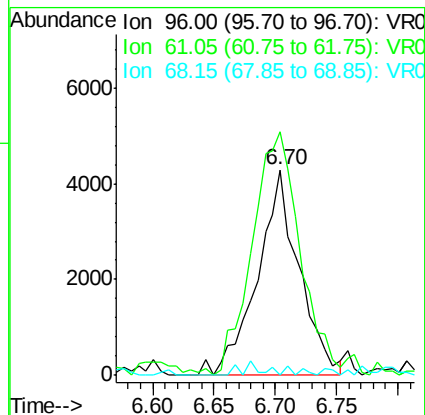
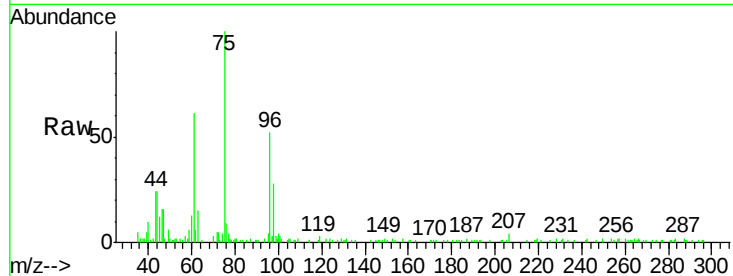


#22

cis-1,2-Dichloroethene
Concen: 0.284 ug/L
RT: 6.70 min Scan# 826
Delta R.T. 0.01 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Instrument :
MSVOA_R
ClientSampleId :
MDL02

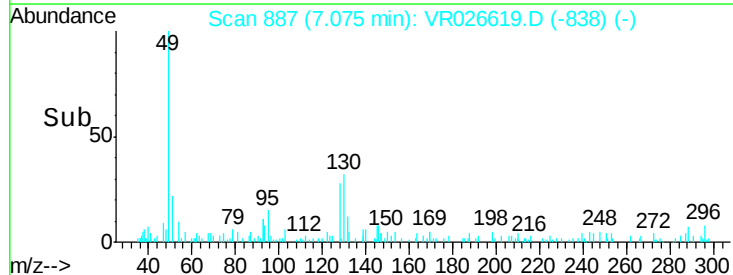
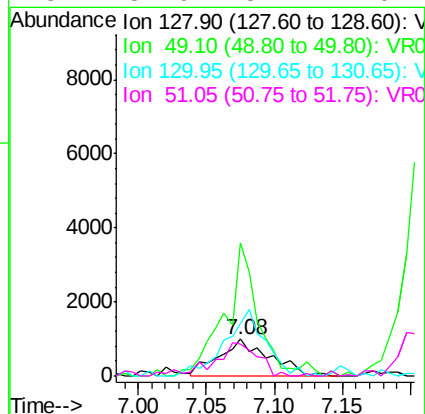
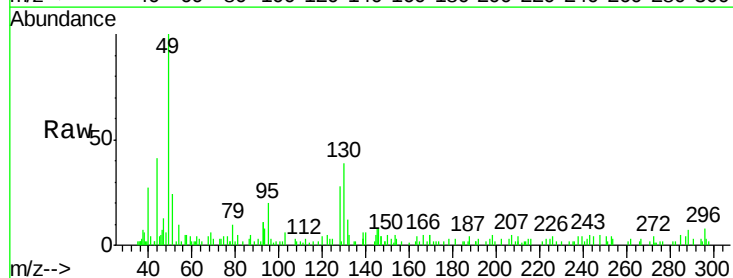
Tot Ion	Ratio	Lower	Upper
96	100		
61	118.4	94.0	174.6
68	0.0	0.1	0.1#

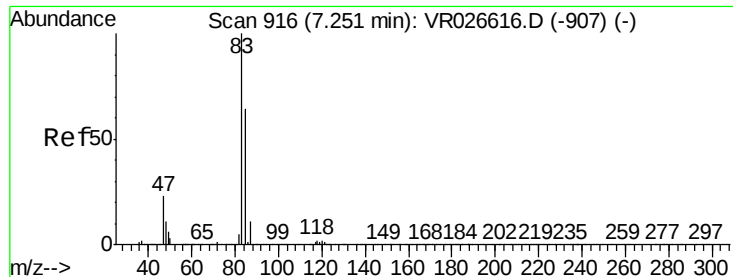


#23

Bromochloromethane
Concen: 0.267 ug/L
RT: 7.08 min Scan# 887
Delta R.T. 0.00 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Tgt Ion	Ratio	Lower	Upper
128	100		
49	360.1	113.2	210.2#
130	142.1	84.1	156.1
51	87.9	51.1	76.7#





#25

Chloroform

Concen: 0.394 ug/L

RT: 7.26 min Scan# 917

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

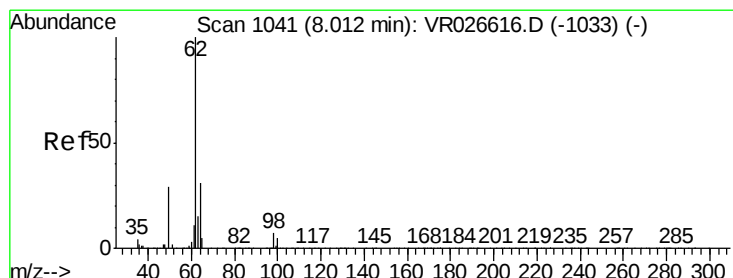
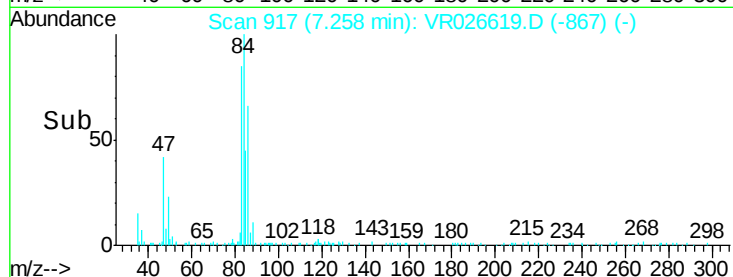
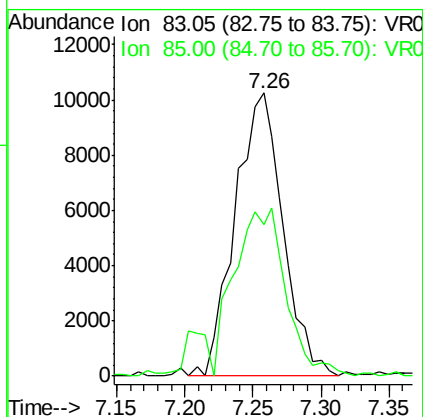
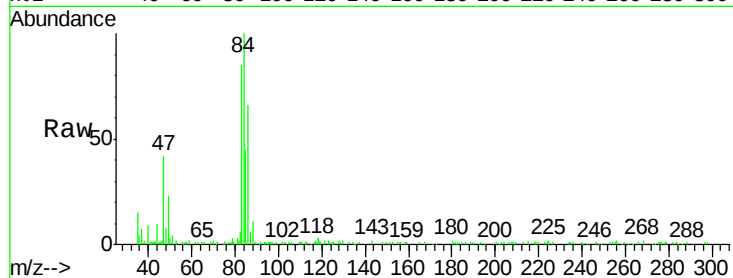
MDL02

Tot Ion: 83 Resp: 25122

Ion Ratio Lower Upper

83 100

85 53.5 44.5 82.7



#27

1,2-Dichloroethane

Concen: 0.269 ug/L

RT: 8.01 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VR026619.D

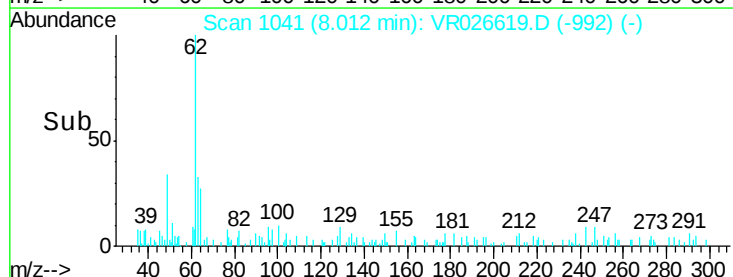
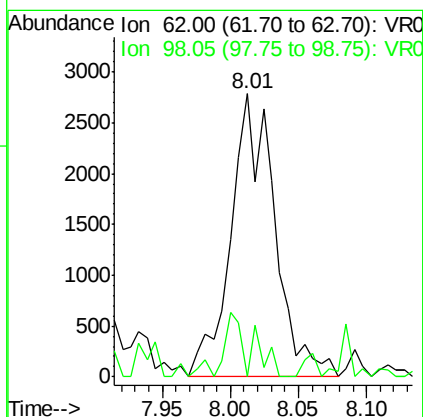
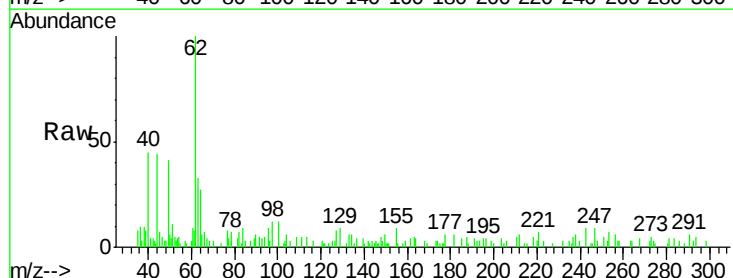
Acq: 11 Sep 2019 13:43

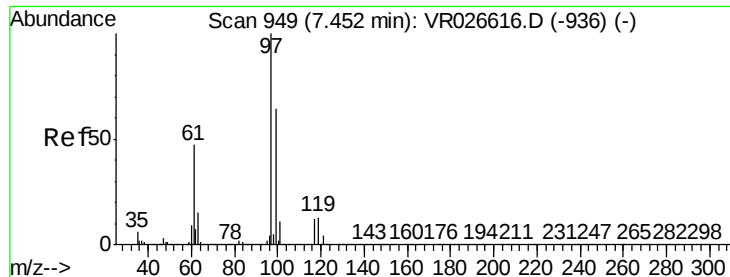
Tgt Ion: 62 Resp: 6275

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.8#

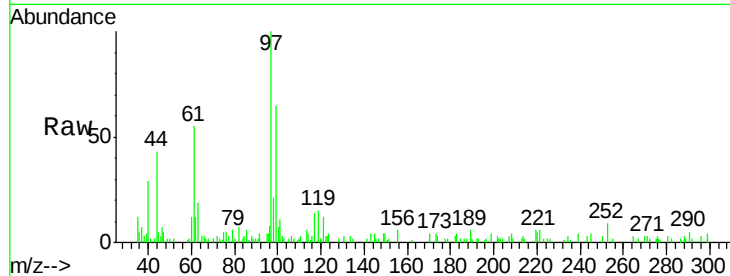




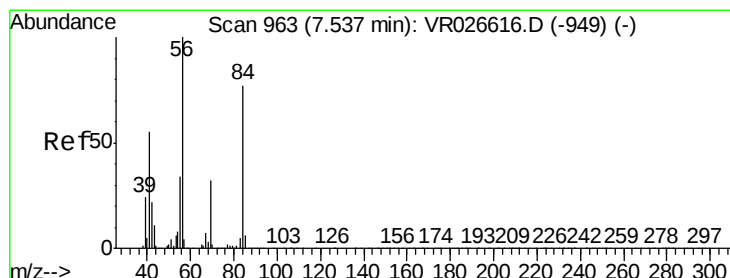
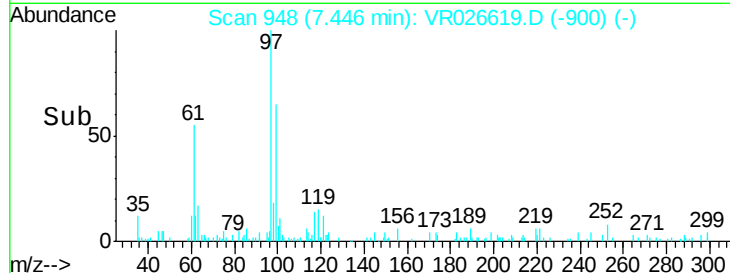
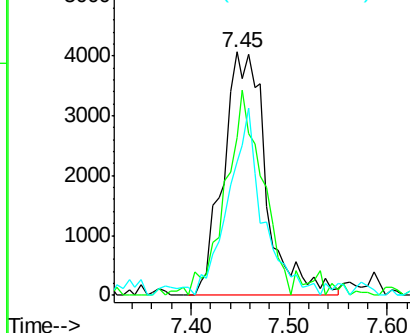
#29
1,1,1-Trichloroethane
Concen: 0.240 ug/L
RT: 7.45 min Scan# 948
Delta R.T. -0.01 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Instrument :
MSVOA_R
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
97	100		
99	73.0	50.8	76.2
61	61.7	39.2	58.8#

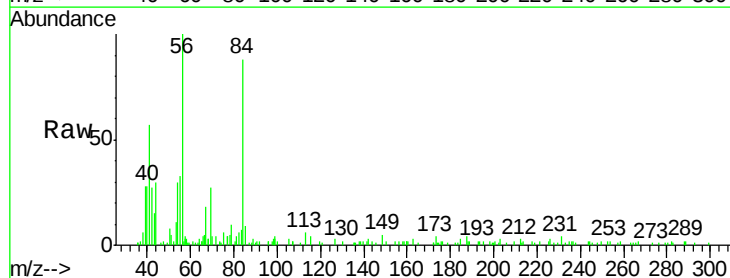


Abundance Ion 96.95 (96.65 to 97.65): VR0
Ion 99.05 (98.75 to 99.75): VR0
Ion 61.05 (60.75 to 61.75): VR0

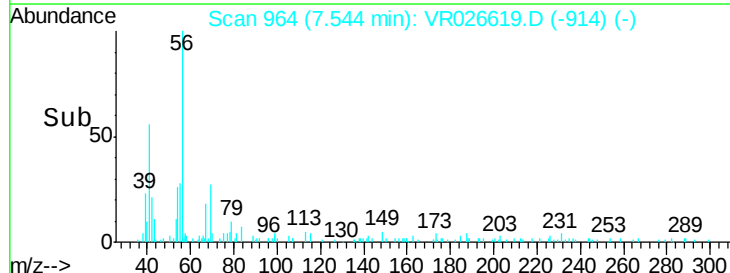
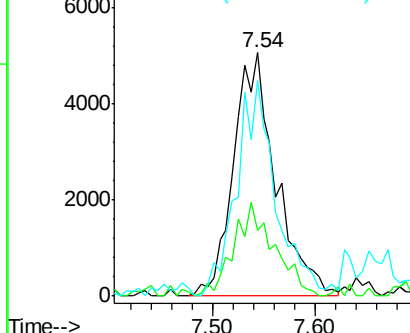


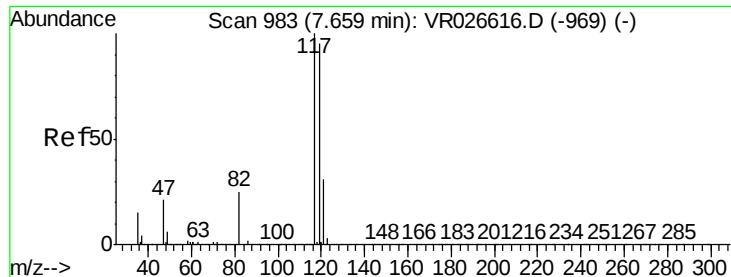
#30
Cyclohexane
Concen: 0.239 ug/L
RT: 7.54 min Scan# 964
Delta R.T. 0.01 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Tgt Ion	Ratio	Lower	Upper
56	100		
69	36.6	25.0	37.4
84	81.7	63.6	95.4



Abundance Ion 56.10 (55.80 to 56.80): VR0
Ion 69.15 (68.85 to 69.85): VR0
Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 0.274 ug/L

RT: 7.66 min Scan# 983

Delta R.T. 0.00 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

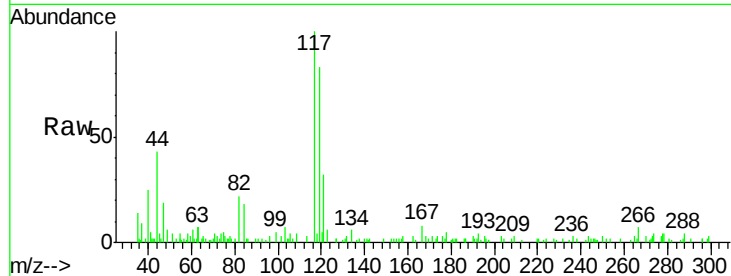
MDL02

Tot Ion:117 Resp: 11592

Ion Ratio Lower Upper

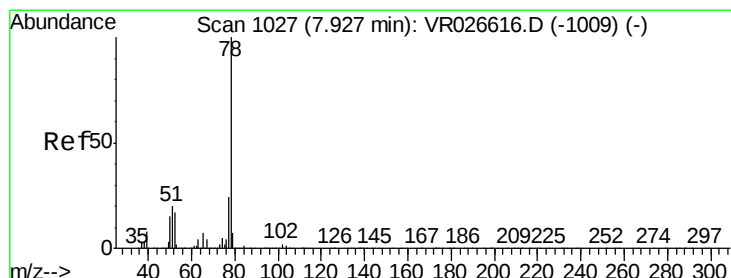
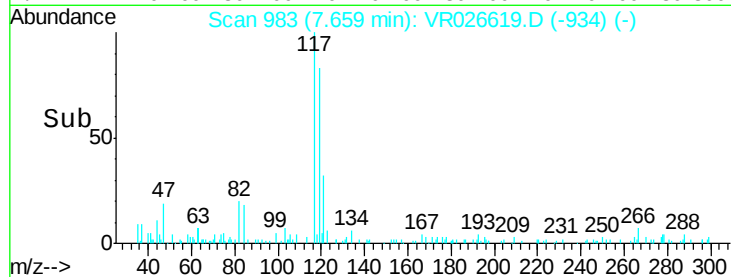
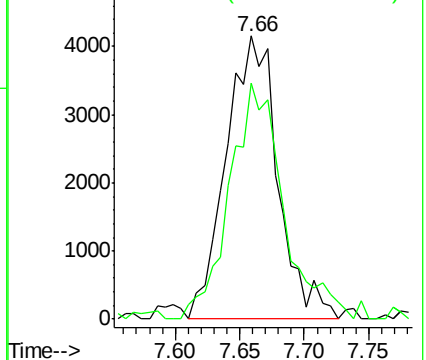
117 100

119 86.1 76.7 115.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.276 ug/L

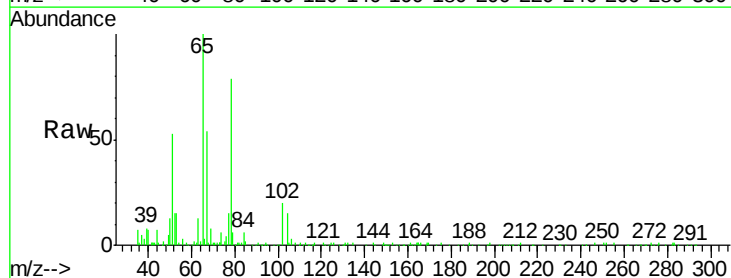
RT: 7.93 min Scan# 1027

Delta R.T. 0.00 min

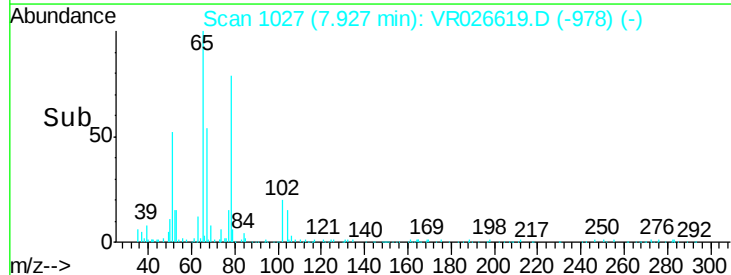
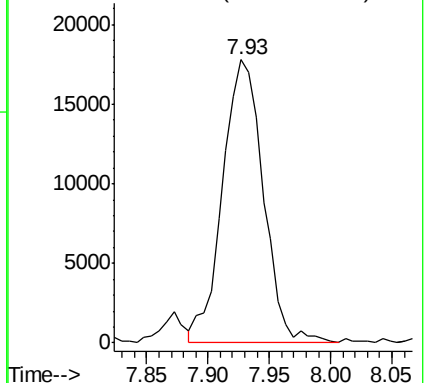
Lab File: VR026619.D

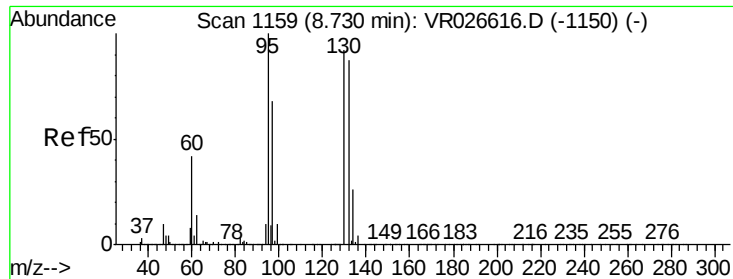
Acq: 11 Sep 2019 13:43

Tgt Ion: 78 Resp: 41221



Abundance Ion 78.10 (77.80 to 78.80): VR0





#34

Trichloroethene

Concen: 0.256 ug/L

RT: 8.73 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampled :

MDL02

Tot Ion: 95 Resp: 9436

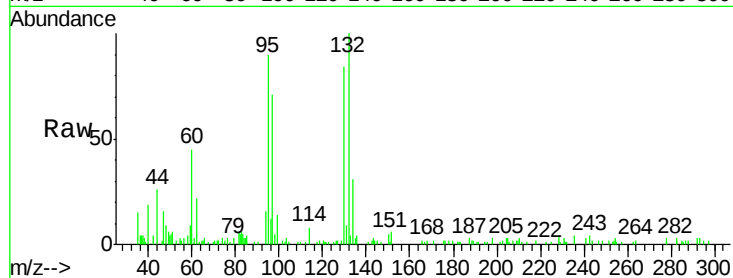
Ion Ratio Lower Upper

95 100

97 78.8 42.8 79.4

132 111.3 61.5 114.1

130 93.0 64.5 119.7

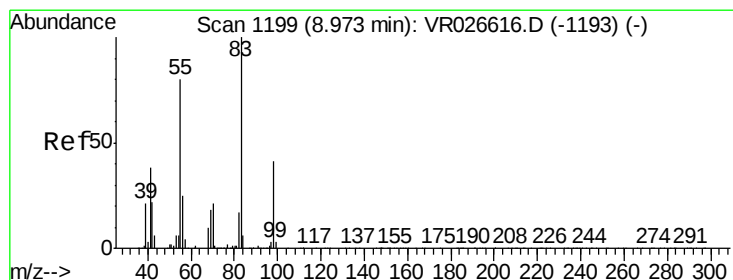
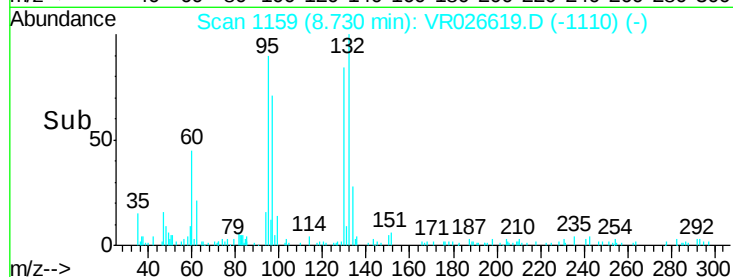
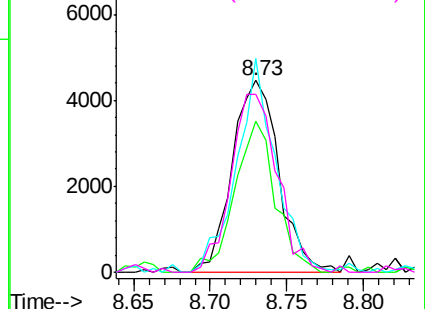


Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.261 ug/L

RT: 8.97 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

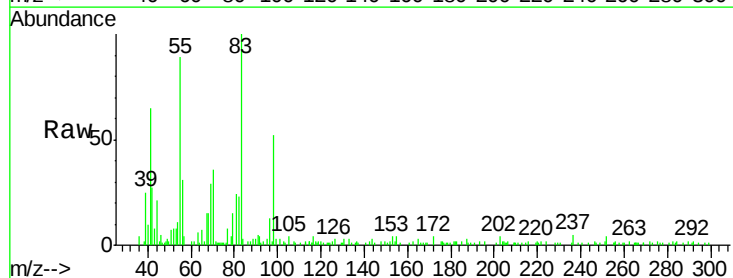
Tgt Ion: 83 Resp: 14482

Ion Ratio Lower Upper

83 100

55 90.6 65.0 97.6

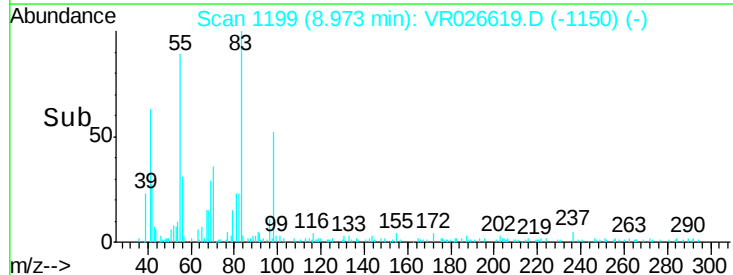
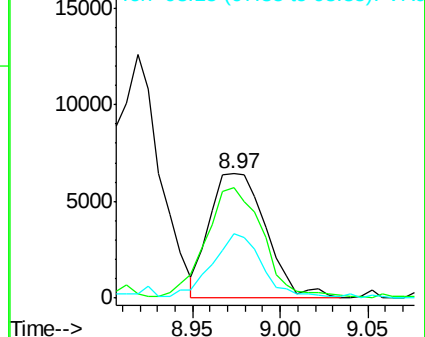
98 43.7 35.8 53.8

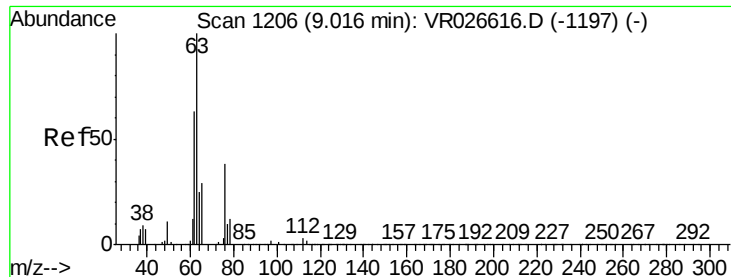


Abundance Ion 83.15 (82.85 to 83.85): VR0

Ion 55.10 (54.80 to 55.80): VR0

Ion 98.15 (97.85 to 98.85): VR0





#37

1,2-Dichloropropane

Concen: 0.260 ug/L

RT: 9.01 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

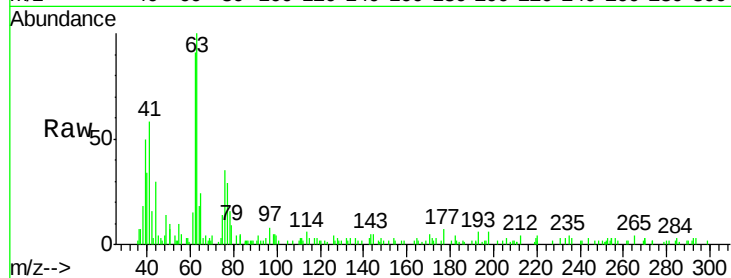
MDL02

Tot Ion: 63 Resp: 7739

Ion Ratio Lower Upper

63 100

112 8.0 2.9 4.3#



Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 112.10 (111.80 to 112.80): V

6000

5000

4000

3000

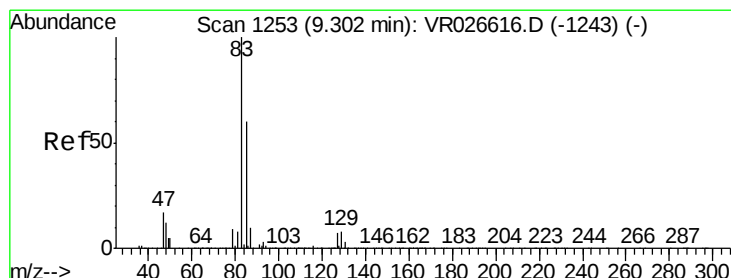
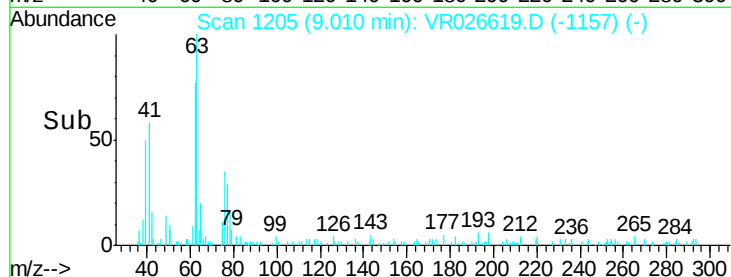
2000

1000

0

8.95 9.00 9.05 9.10

Time-->



#38

Bromodichloromethane

Concen: 0.233 ug/L

RT: 9.30 min Scan# 1252

Delta R.T. -0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

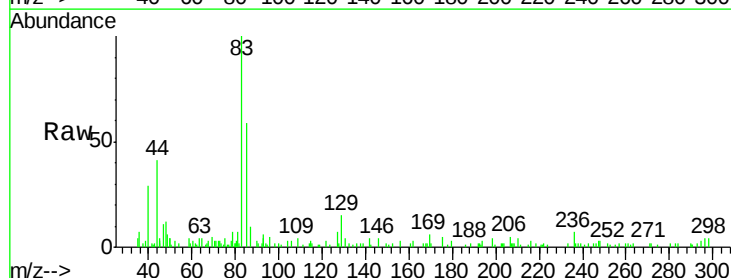
Tgt Ion: 83 Resp: 7158

Ion Ratio Lower Upper

83 100

85 58.8 44.0 81.6

127 7.3 6.9 10.3



Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 126.90 (126.60 to 127.60): V

6000

5000

4000

3000

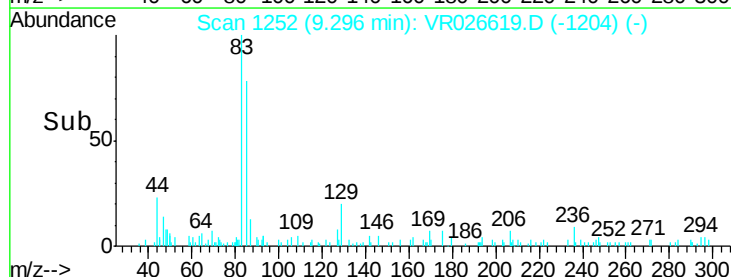
2000

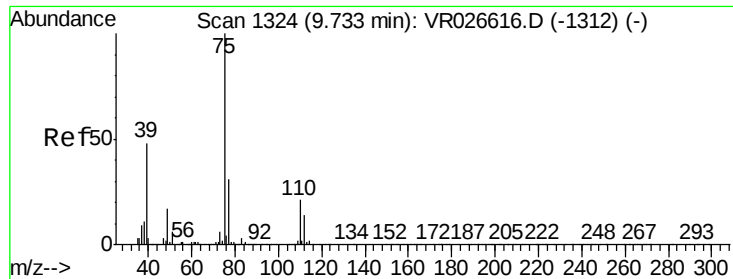
1000

0

9.25 9.30 9.35

Time-->



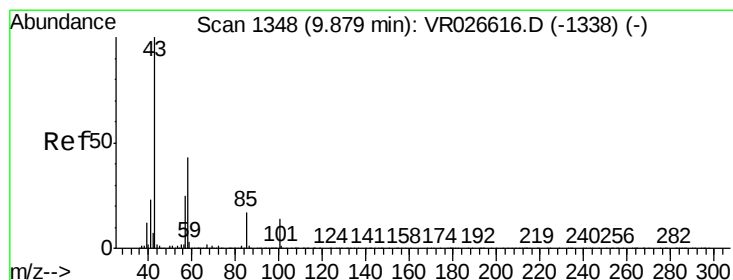
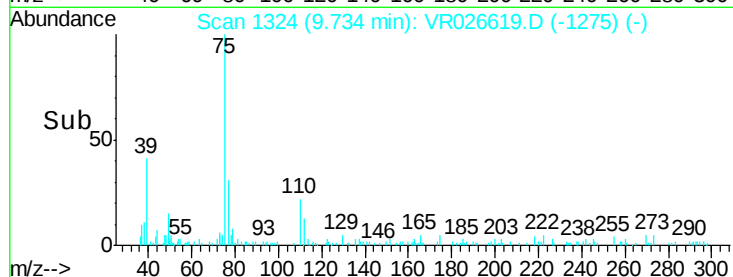
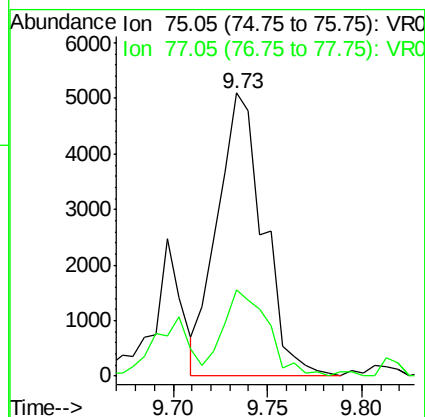
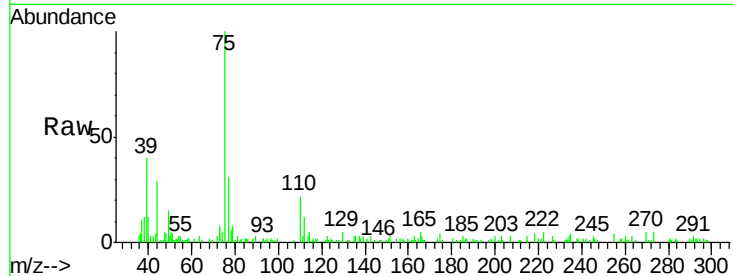


#39

cis-1,3-Dichloropropene
Concen: 0.267 ug/L
RT: 9.73 min Scan# 1324
Delta R.T. 0.00 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Instrument :
MSVOA_R
ClientSampleId :
MDL02

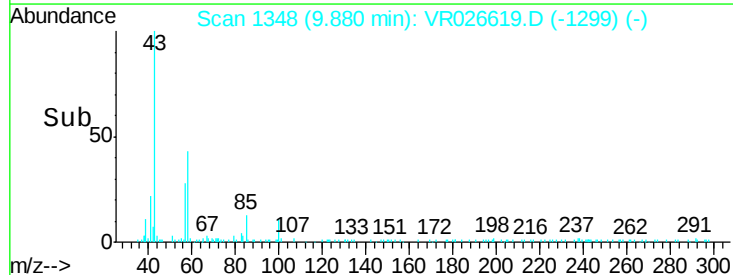
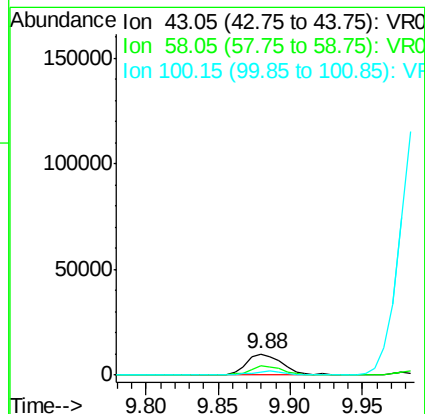
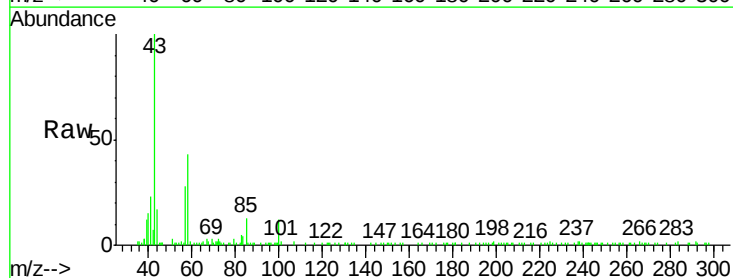
Tot Ion: 75 Resp: 8644
Ion Ratio Lower Upper
75 100
77 30.7 21.0 39.0

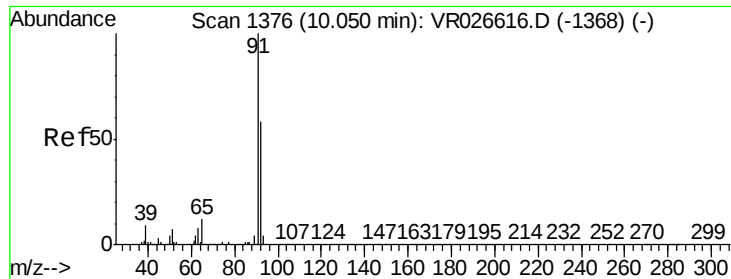


#40

4-Methyl-2-pentanone
Concen: 2.025 ug/L
RT: 9.88 min Scan# 1348
Delta R.T. 0.00 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Tgt Ion: 43 Resp: 17247
Ion Ratio Lower Upper
43 100
58 41.6 31.6 47.4
100 0.0 11.4 17.0#





#42

Toluene

Concen: 0.256 ug/L

RT: 10.06 min Scan# 1377

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

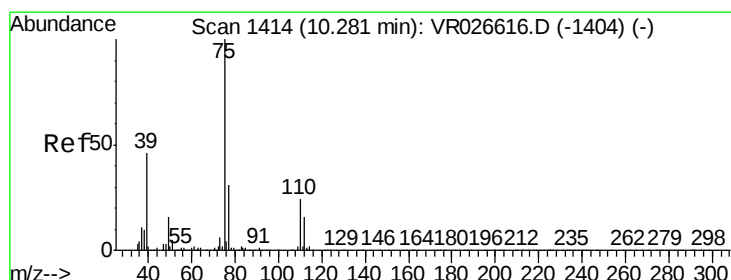
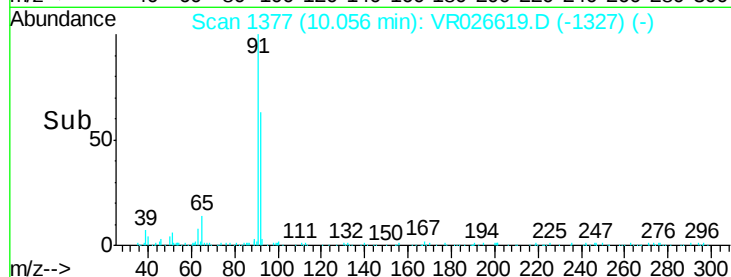
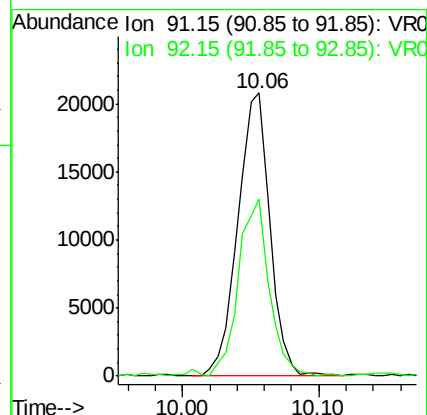
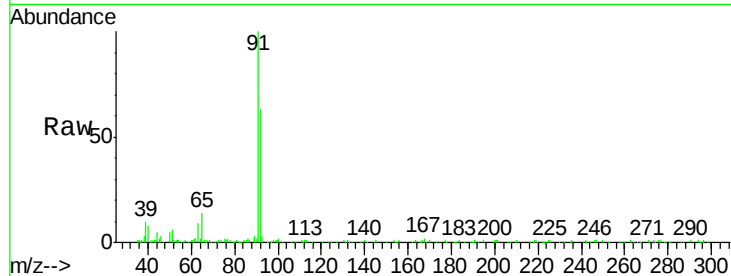
MDL02

Tot Ion: 91 Resp: 34157

Ion Ratio Lower Upper

91 100

92 62.6 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 0.325 ug/L m

RT: 10.28 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VR026619.D

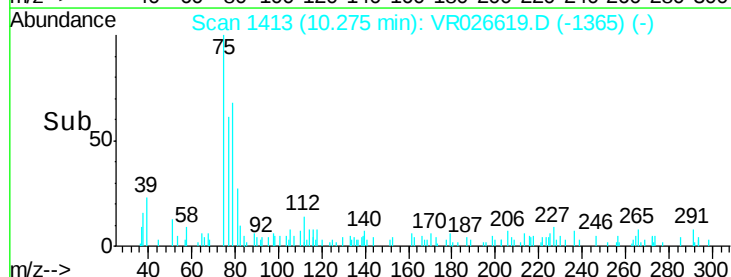
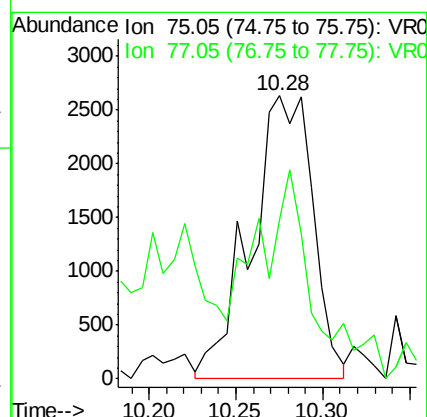
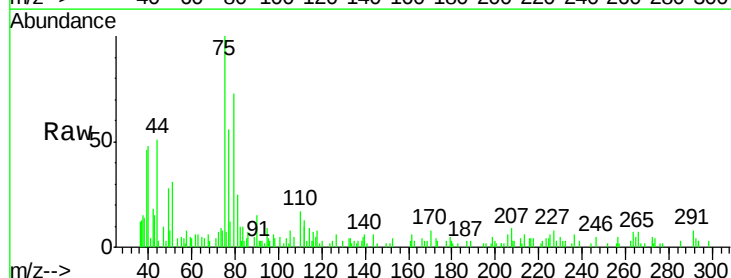
Acq: 11 Sep 2019 13:43

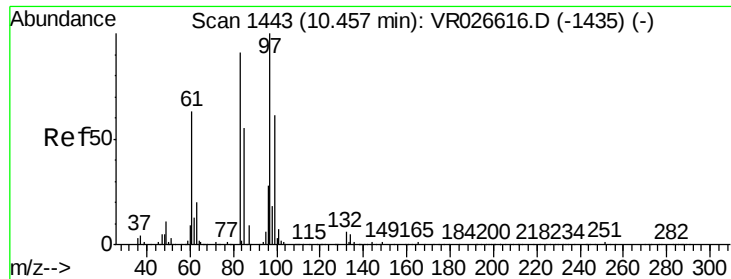
Tgt Ion: 75 Resp: 6534

Ion Ratio Lower Upper

75 100

77 56.3 24.3 45.1#





#45

1,1,2-Trichloroethane

Concen: 0.275 ug/L

RT: 10.46 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

MDL02

Tot Ion: 97 Resp: 3422

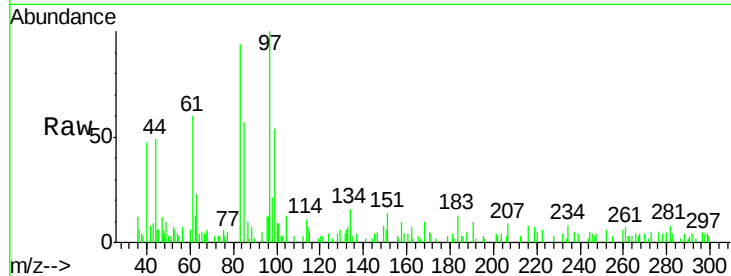
Ion Ratio Lower Upper

97 100

99 53.6 40.4 75.0

83 93.8 61.2 113.8

85 57.1 37.5 69.7

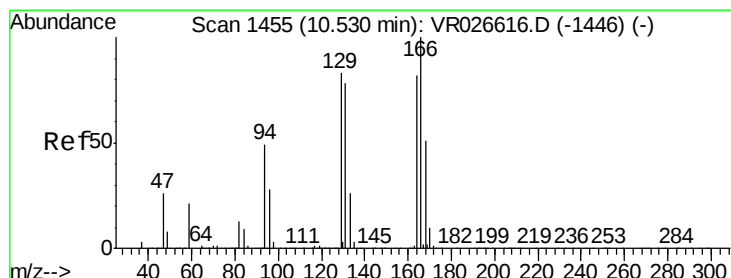
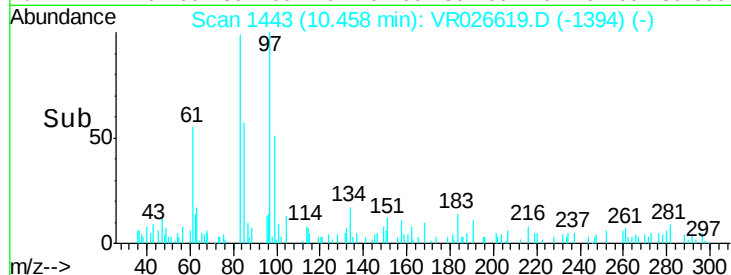
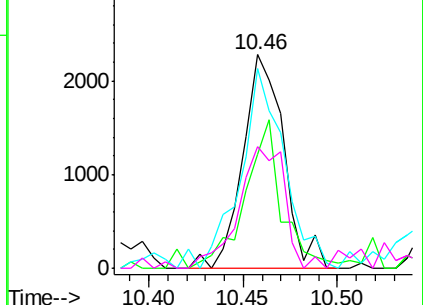


Abundance Ion 96.95 (96.65 to 97.65): VR0

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: 0.322 ug/L

RT: 10.53 min Scan# 1455

Delta R.T. 0.00 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Tgt Ion: 164 Resp: 6670

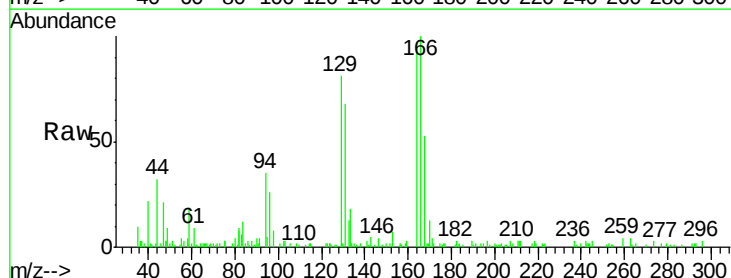
Ion Ratio Lower Upper

164 100

129 83.2 69.4 128.8

131 70.5 63.6 118.0

166 103.1 80.4 149.2

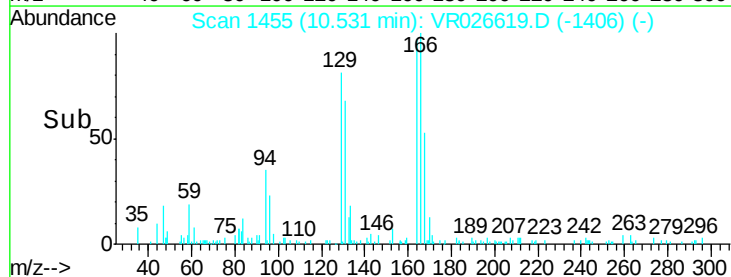
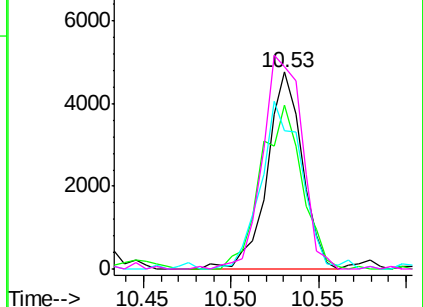


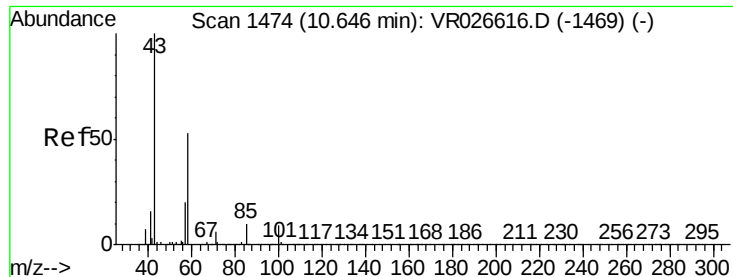
Abundance Ion 163.90 (163.60 to 164.60): V

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

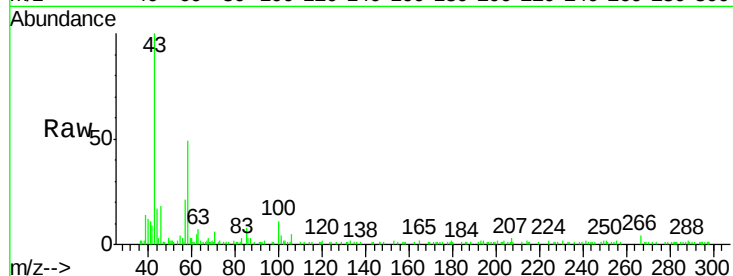




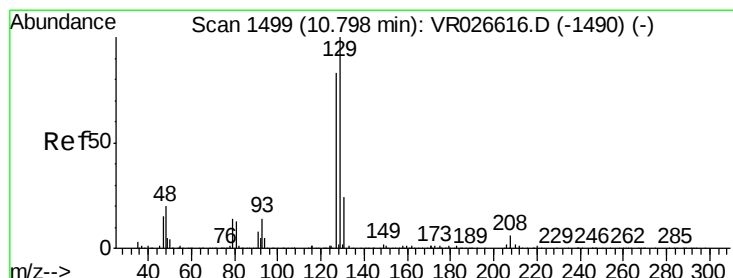
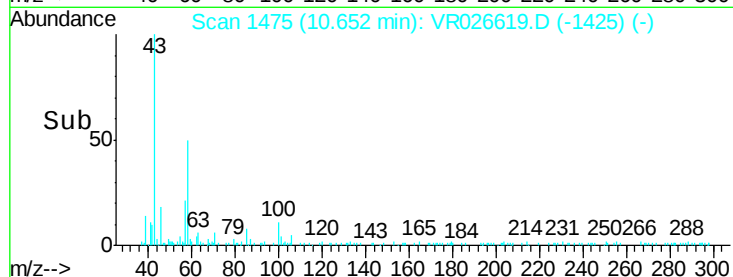
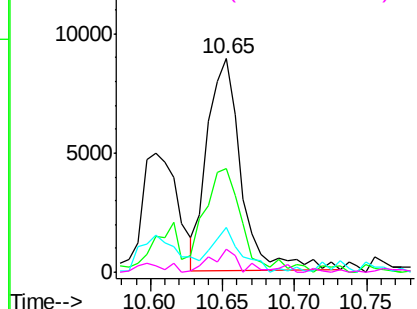
#48
2-Hexanone
Concen: 2.868 ug/L
RT: 10.65 min Scan# 1475
Delta R.T. 0.01 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Instrument :
MSVOA_R
ClientSampleID :
MDL02

Tot Ion:	43	Resp:	14523
Ion	Ratio	Lower	Upper
43	100		
58	48.0	46.0	69.0
57	18.1	16.1	24.1
100	9.0	8.9	13.3

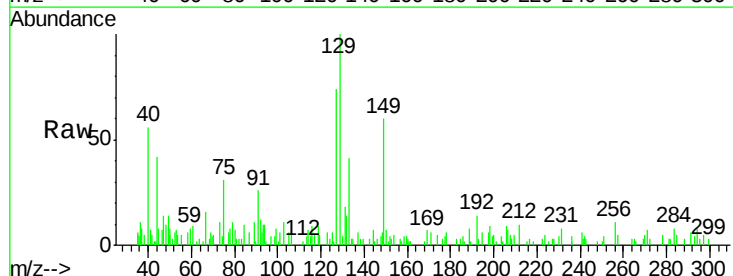


Abundance Ion 43.05 (42.75 to 43.75): VR0
Ion 58.05 (57.75 to 58.75): VR0
Ion 57.20 (56.90 to 57.90): VR0
Ion 100.15 (99.85 to 100.85): VR0

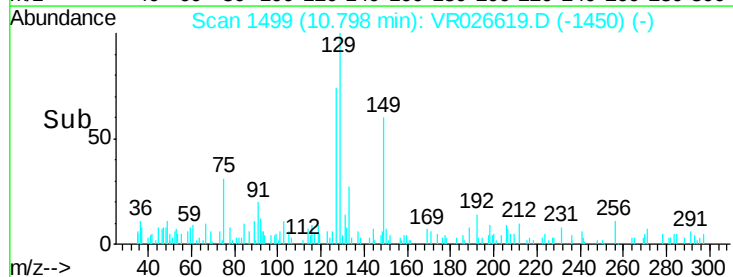
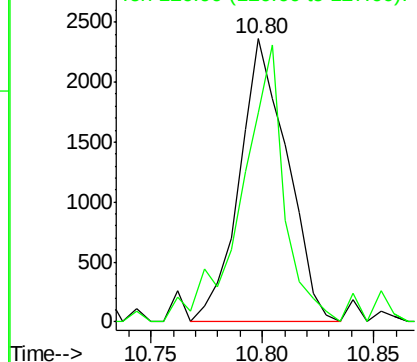


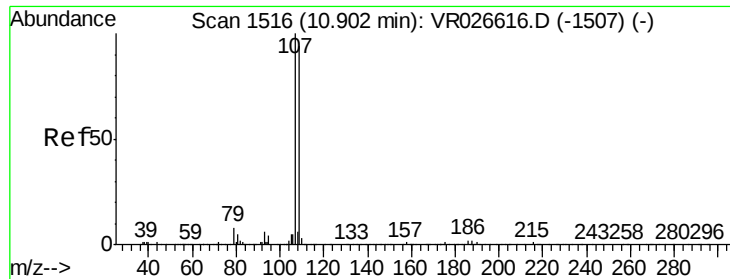
#49
Dibromochloromethane
Concen: 0.272 ug/L
RT: 10.80 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Tgt Ion:	129	Resp:	3528
Ion	Ratio	Lower	Upper
129	100		
127	73.7	59.9	111.3



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

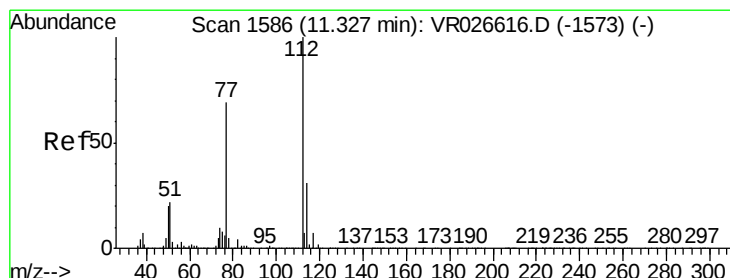
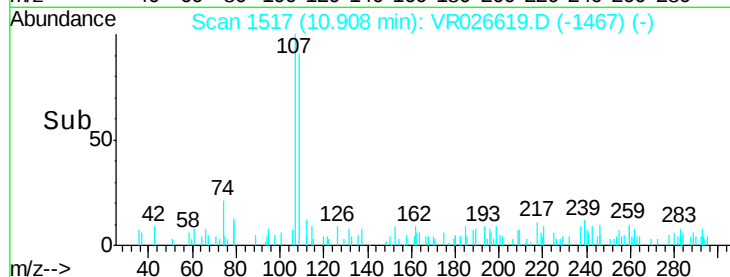
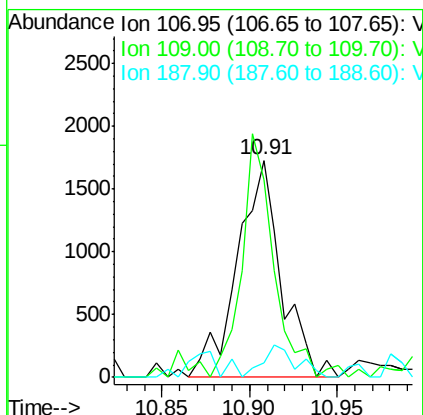
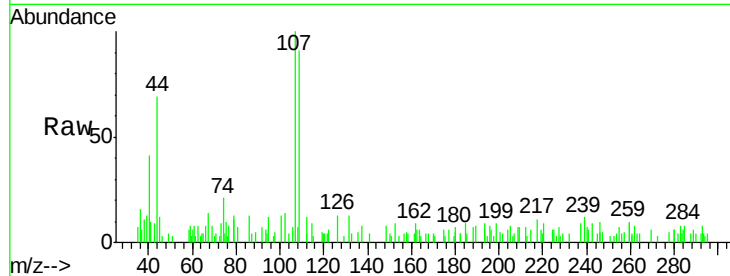




#50
1,2-Dibromoethane
Concen: 0.290 ug/L
RT: 10.91 min Scan# 1517
Delta R.T. 0.01 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

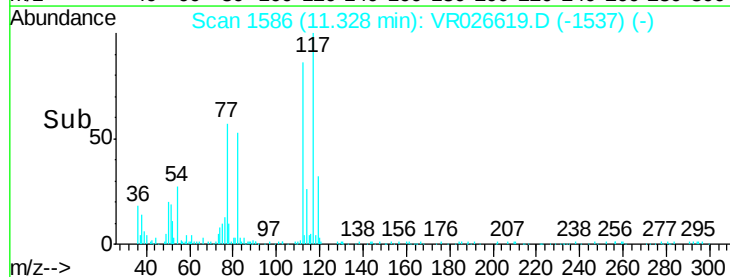
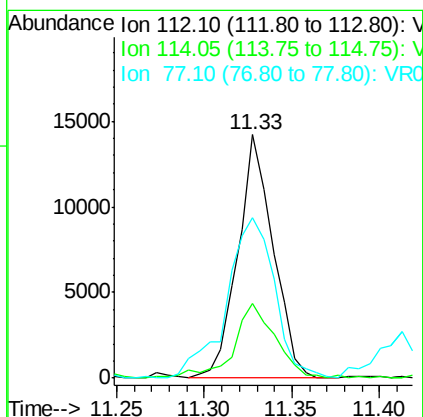
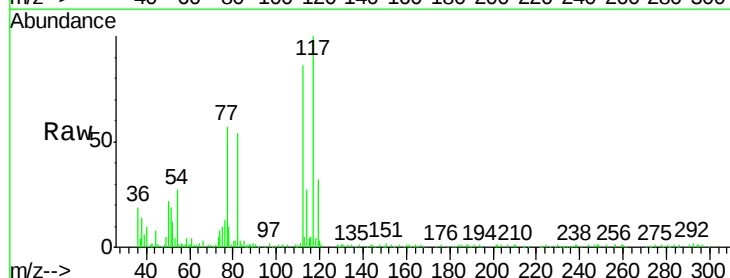
Instrument :
MSVOA_R
ClientSampled :
MDL02

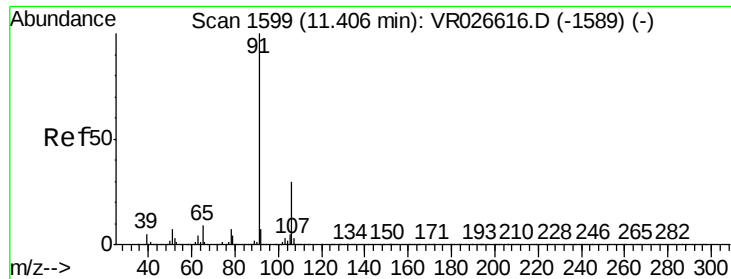
Tot Ion:107 Resp: 3023
Ion Ratio Lower Upper
107 100
109 91.1 66.8 124.2
188 6.7 1.9 2.9#



#51
Chlorobenzene
Concen: 0.278 ug/L
RT: 11.33 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Tgt Ion:112 Resp: 20006
Ion Ratio Lower Upper
112 100
114 30.9 22.7 42.3
77 65.7 54.3 81.5





#52

Ethylbenzene

Concen: 0.246 ug/L

RT: 11.41 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

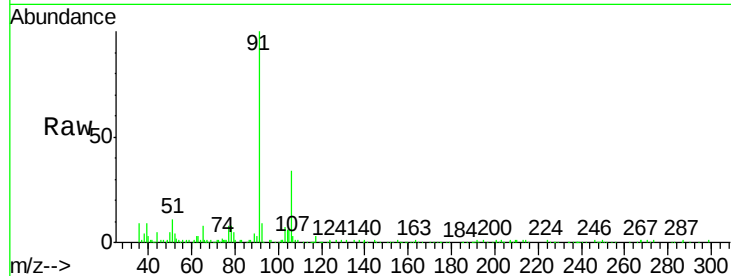
MDL02

Tot Ion: 91 Resp: 36033

Ion Ratio Lower Upper

91 100

106 34.1 20.6 38.2



Abundance Ion 91.15 (90.85 to 91.85): VR0

Ion 106.15 (105.85 to 106.85): V

11.41

25000

20000

15000

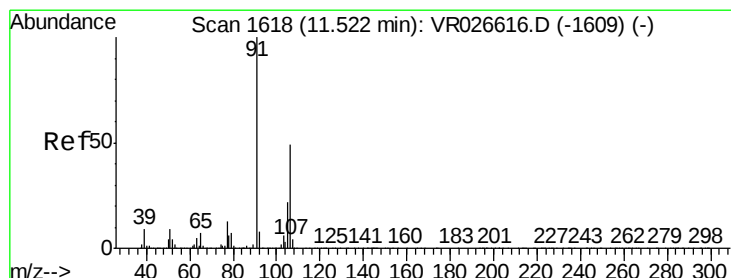
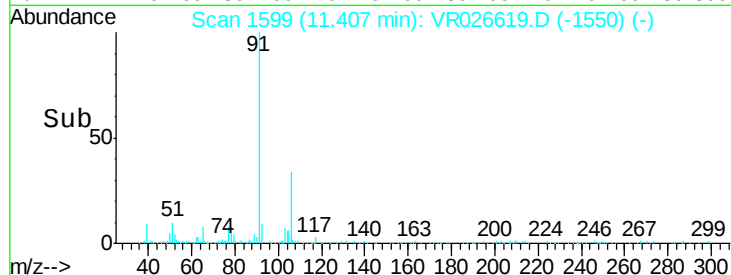
10000

5000

0

Time-->

11.35 11.40 11.45



#53

m,p-Xylene

Concen: 0.253 ug/L

RT: 11.52 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VR026619.D

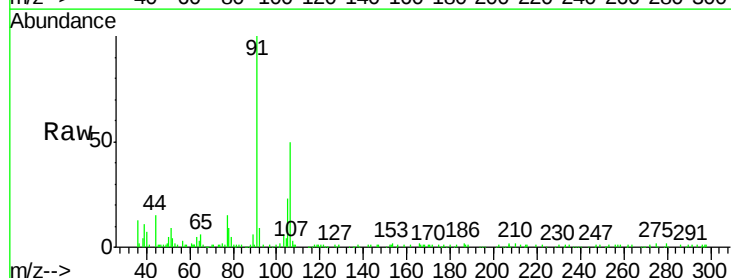
Acq: 11 Sep 2019 13:43

Tgt Ion: 106 Resp: 13571

Ion Ratio Lower Upper

106 100

91 200.3 151.8 282.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0

11.52

25000

20000

15000

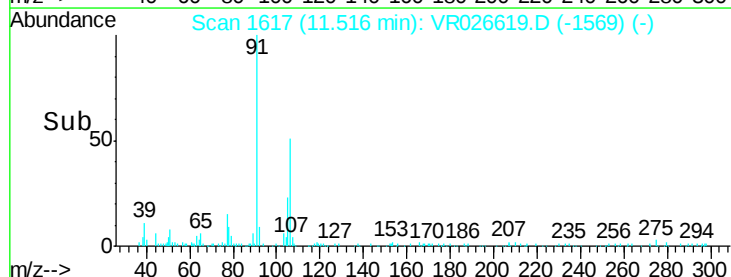
10000

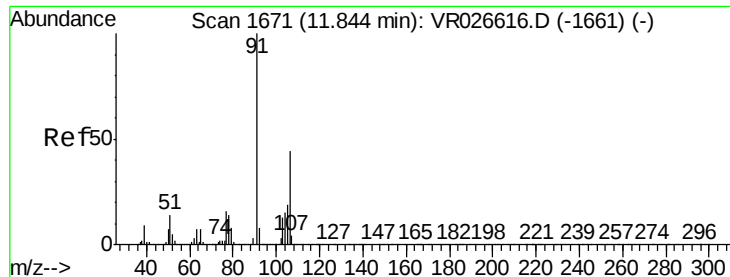
5000

0

Time-->

11.50 11.52 11.54

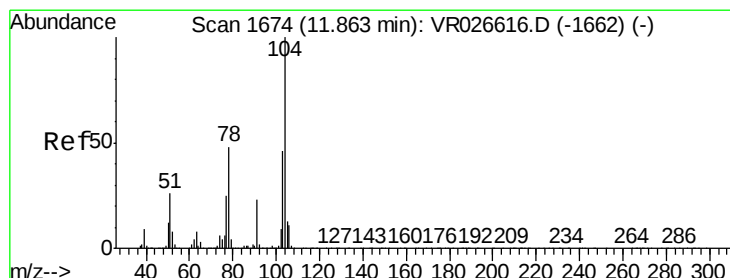
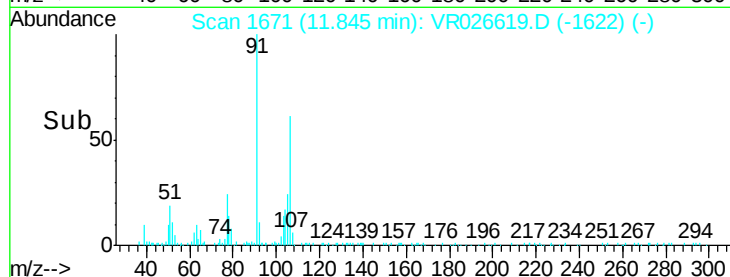
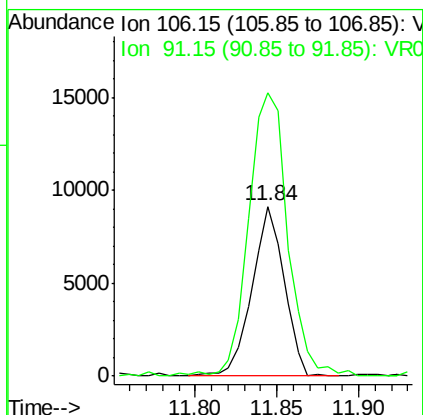
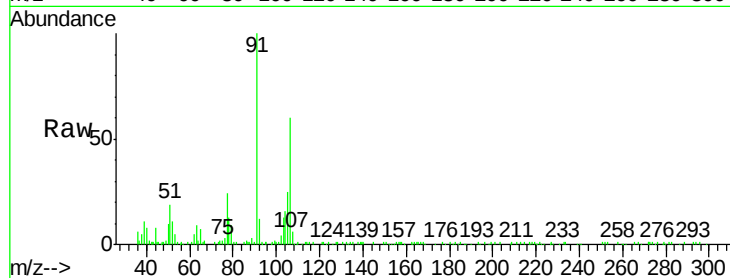




#54
o-Xylene
Concen: 0.242 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

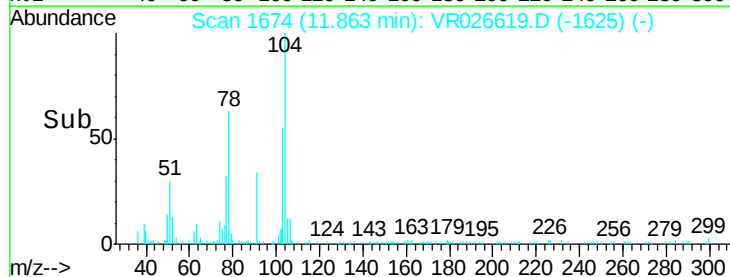
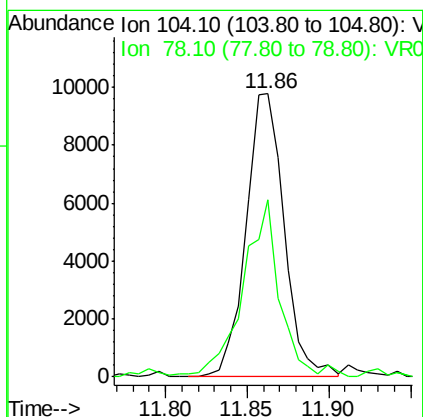
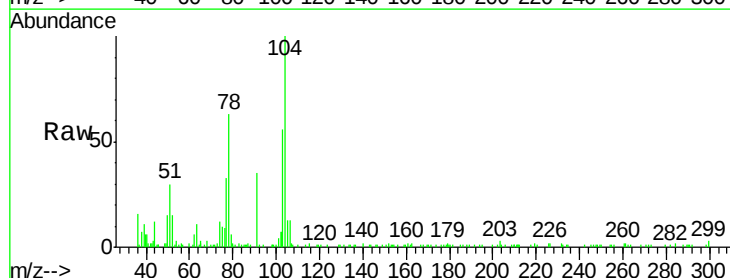
Instrument :
MSVOA_R
ClientSampled :
MDL02

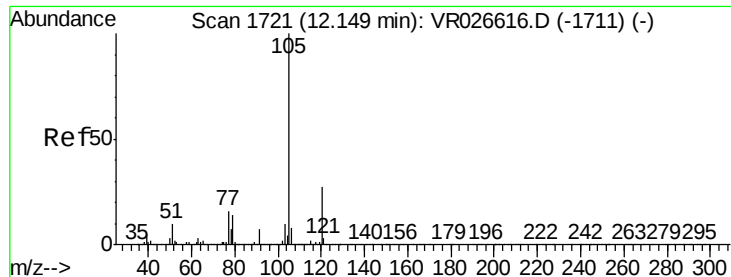
Tot Ion:106 Resp: 12602
Ion Ratio Lower Upper
106 100
91 166.9 161.3 299.5



#55
Styrene
Concen: 0.221 ug/L
RT: 11.86 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VR026619.D
Acq: 11 Sep 2019 13:43

Tgt Ion:104 Resp: 15918
Ion Ratio Lower Upper
104 100
78 62.8 34.3 63.7





#56

Isopropylbenzene

Concen: 0.254 ug/L

RT: 12.15 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

MDL02

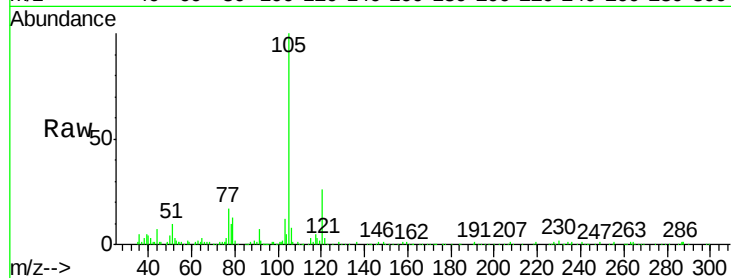
Tot Ion:105 Resp: 36836

Ion Ratio Lower Upper

105 100

120 26.4 20.7 31.1

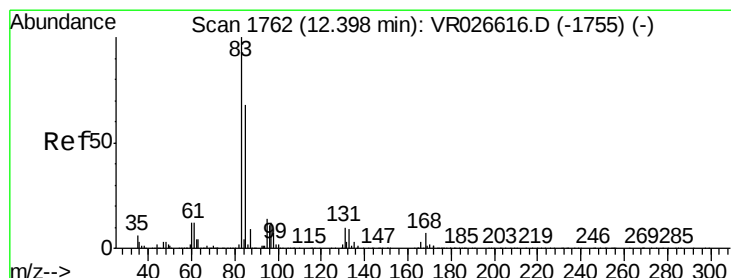
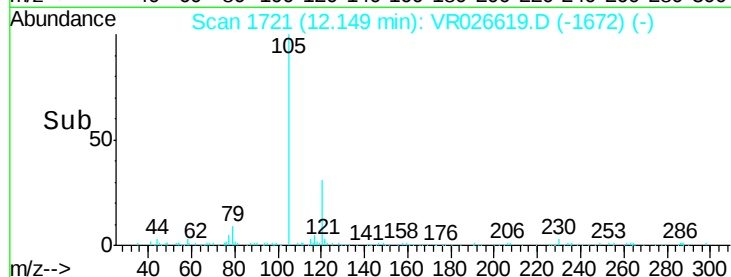
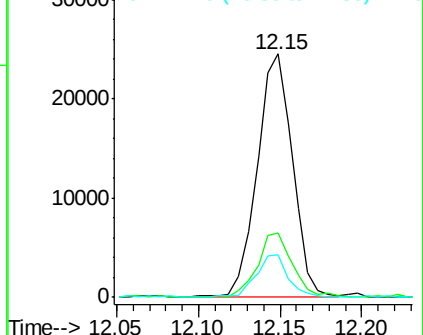
77 16.2 13.1 19.7



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: 0.309 ug/L

RT: 12.40 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

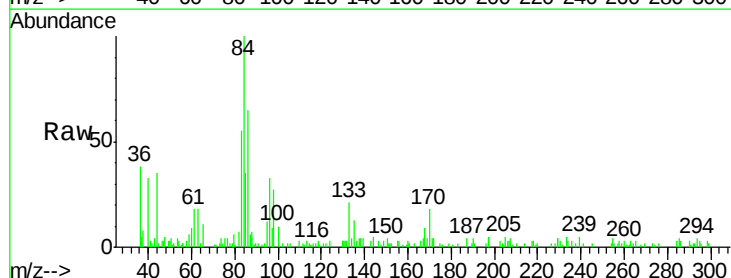
Tgt Ion: 83 Resp: 4381

Ion Ratio Lower Upper

83 100

85 63.7 45.7 84.9

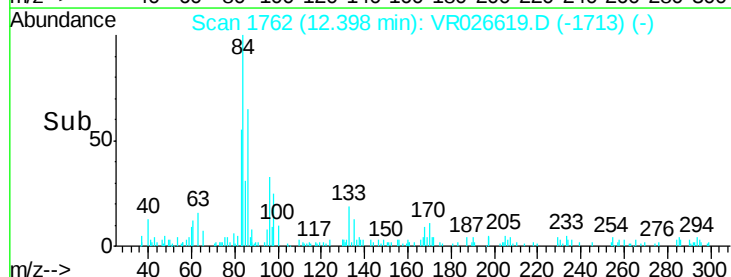
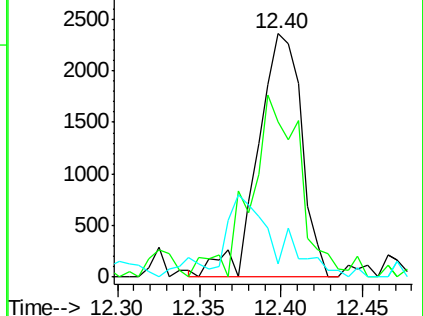
131 5.5 7.9 11.9#

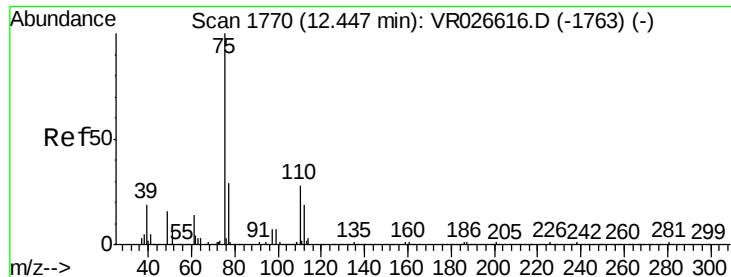


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.326 ug/L m

RT: 12.46 min Scan# 1772

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampled :

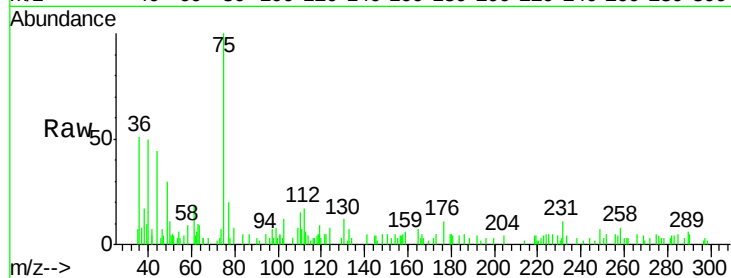
MDL02

Tot Ion: 75 Resp: 3347

Ion Ratio Lower Upper

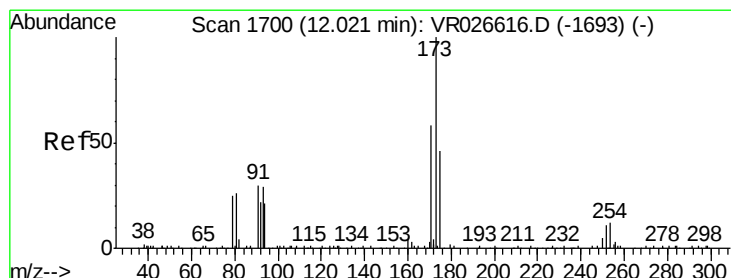
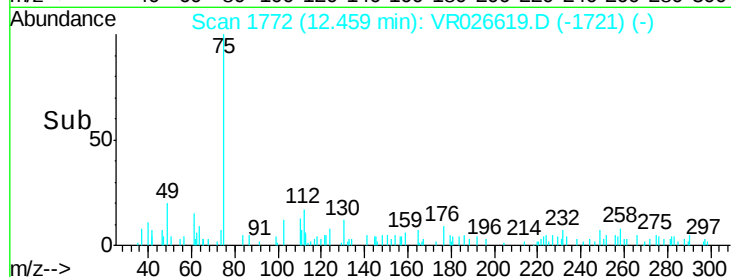
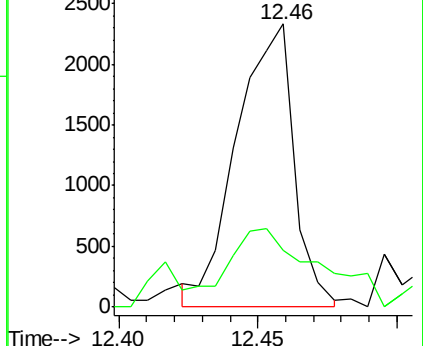
75 100

77 5.2 27.3 40.9#



Abundance Ion 75.00 (74.70 to 75.70): VR0

Ion 77.00 (76.70 to 77.70): VR0



#61

Bromoform

Concen: 0.299 ug/L

RT: 12.03 min Scan# 1701

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

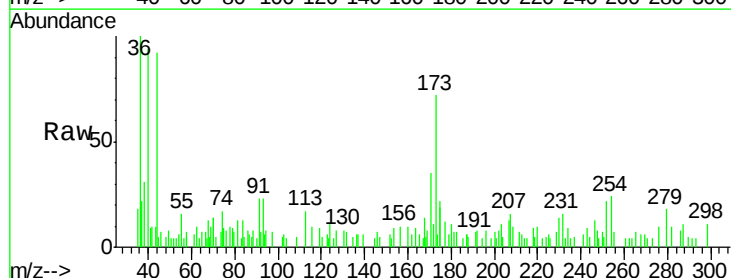
Tgt Ion: 173 Resp: 1560

Ion Ratio Lower Upper

173 100

175 60.8 38.8 58.2#

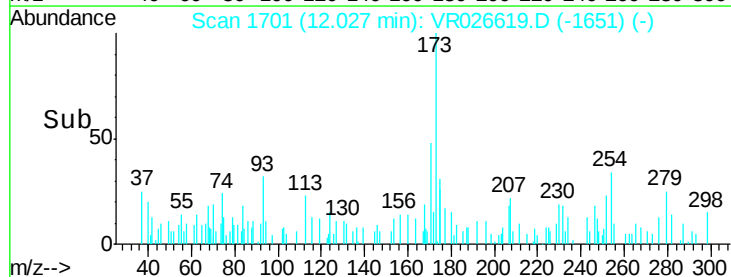
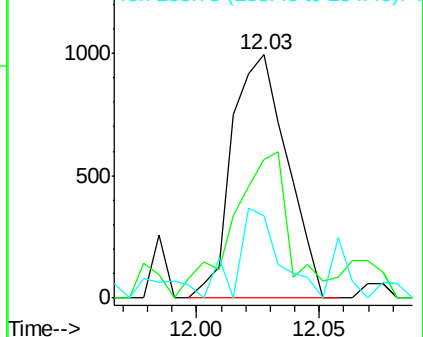
254 27.9 10.0 15.0#

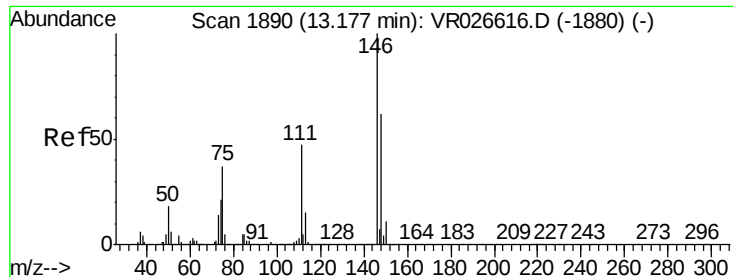


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 0.271 ug/L

RT: 13.18 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampled :

MDL02

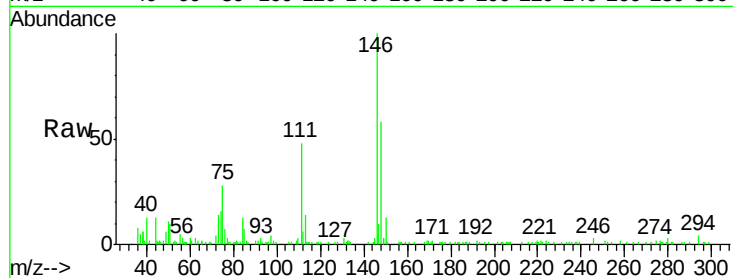
Tot Ion:146 Resp: 13128

Ion Ratio Lower Upper

146 100

111 47.9 32.2 59.8

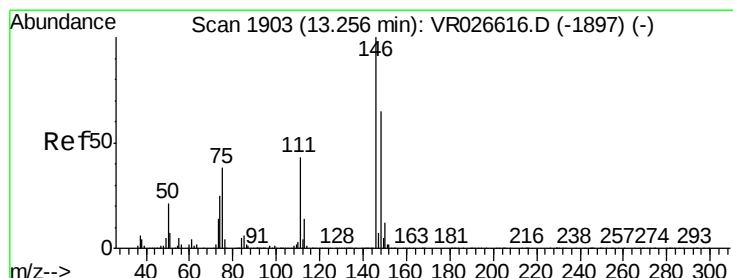
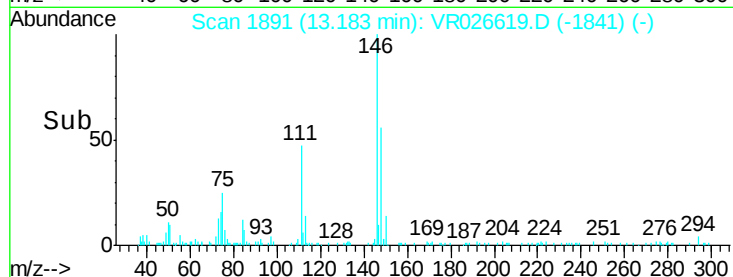
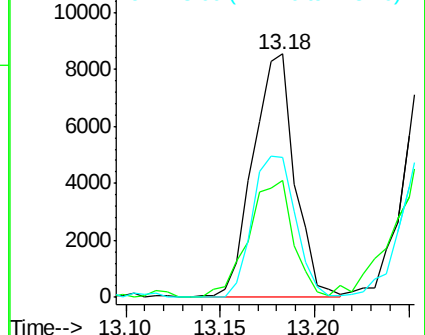
148 57.6 45.6 84.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.299 ug/L

RT: 13.26 min Scan# 1904

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

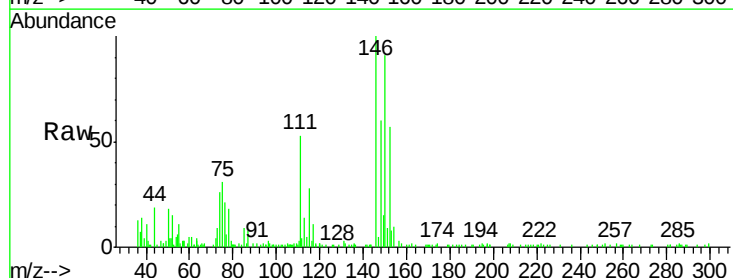
Tgt Ion:146 Resp: 13935

Ion Ratio Lower Upper

146 100

111 53.1 33.2 61.7

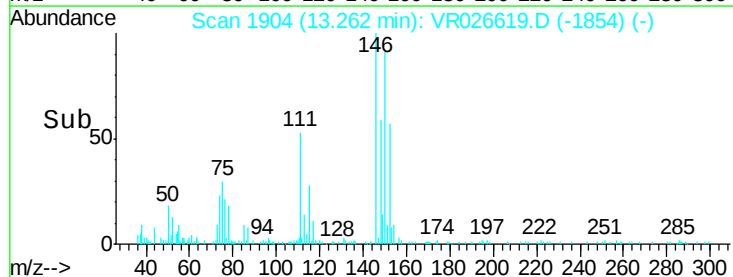
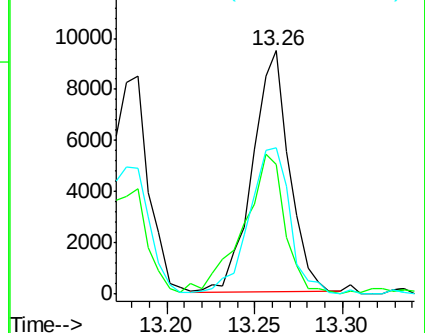
148 60.2 42.4 78.6

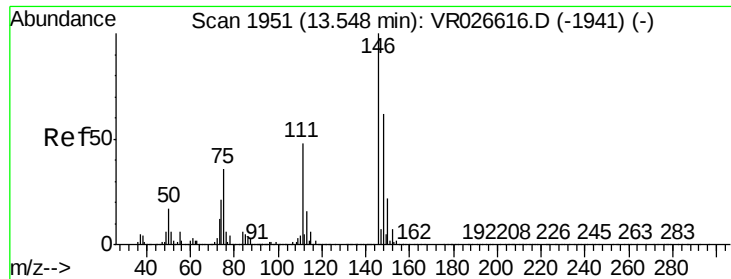


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

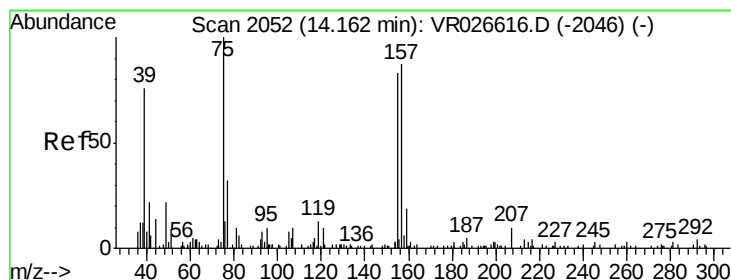
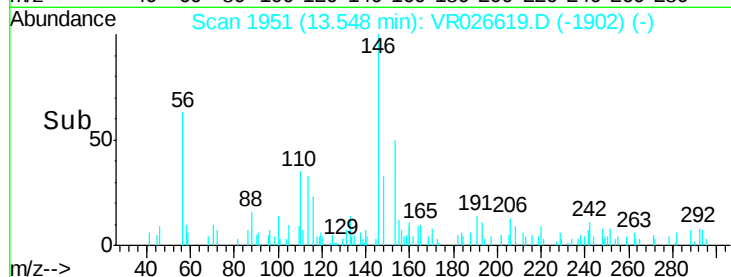
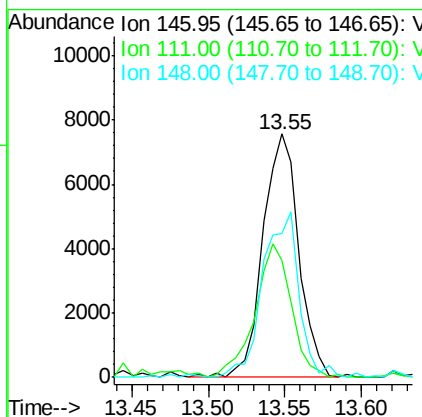
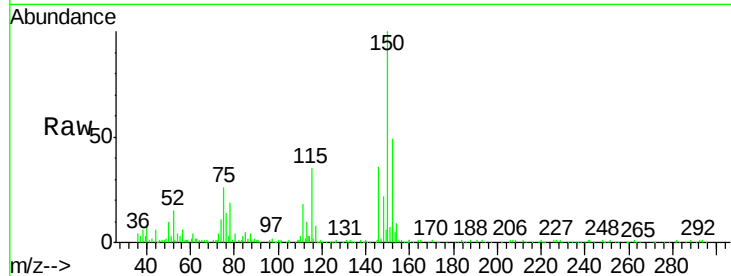




#65
 1,2-Dichlorobenzene
 Concen: 0.304 ug/L
 RT: 13.55 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VR026619.D
 Acq: 11 Sep 2019 13:43

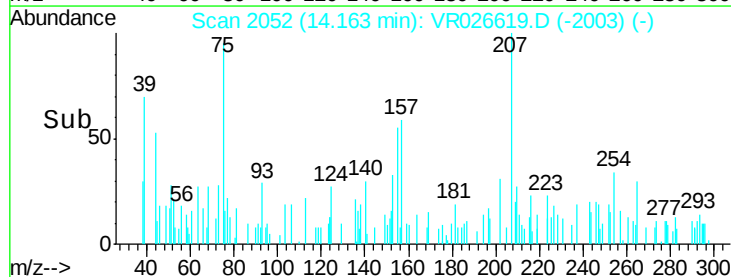
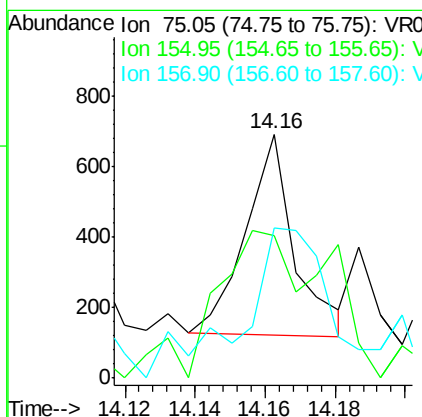
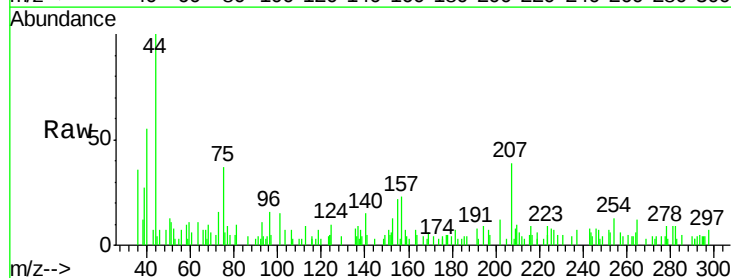
Instrument :
 MSVOA_R
 ClientSampleID :
 MDL02

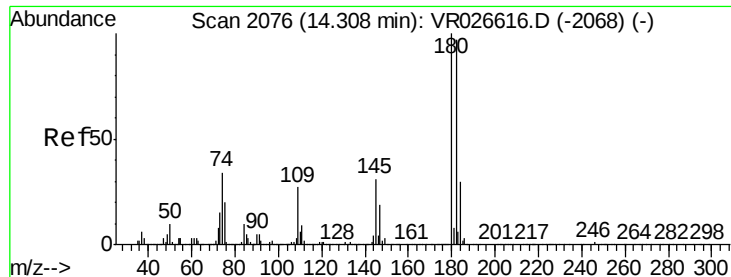
Tot Ion	Ratio	Lower	Upper
146	100		
111	48.0	39.3	58.9
148	59.2	49.3	73.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.266 ug/L
 RT: 14.16 min Scan# 2052
 Delta R.T. 0.00 min
 Lab File: VR026619.D
 Acq: 11 Sep 2019 13:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	58.5	50.2	75.4
157	61.6	74.5	111.7#

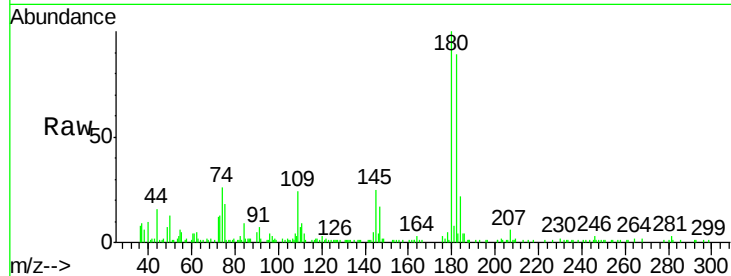




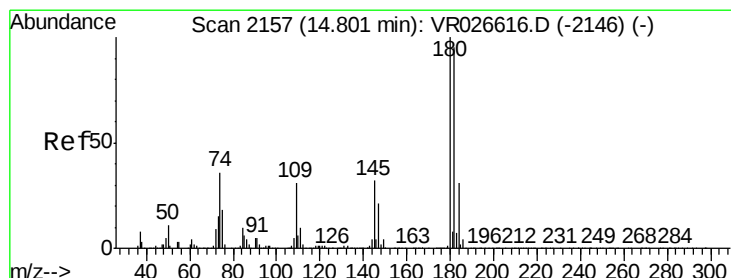
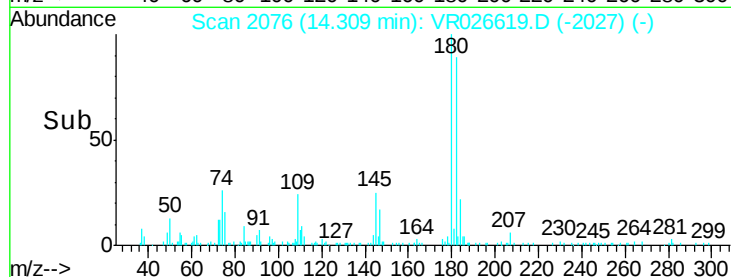
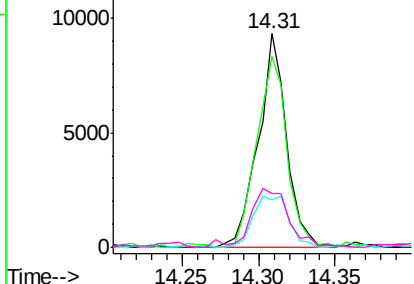
#67
 1,3,5-Trichlorobenzene
 Concen: 0.309 ug/L
 RT: 14.31 min Scan# 2076
 Delta R.T. 0.00 min
 Lab File: VR026619.D
 Acq: 11 Sep 2019 13:43

Instrument :
 MSVOA_R
 ClientSampleId :
 MDL02

Tot Ion:180 Resp: 12084
 Ion Ratio Lower Upper
 180 100
 182 95.8 75.1 112.7
 184 29.8 23.5 35.3
 145 37.4 25.8 38.8

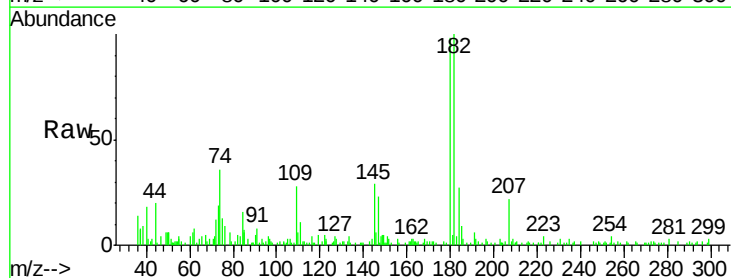


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

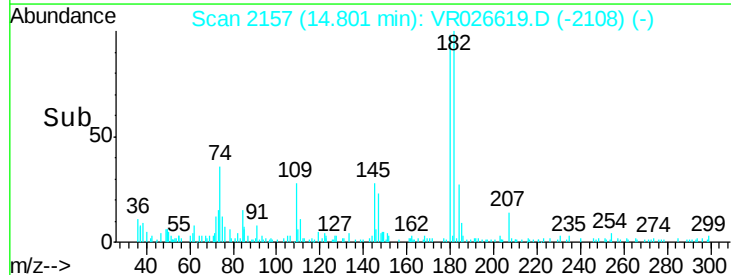
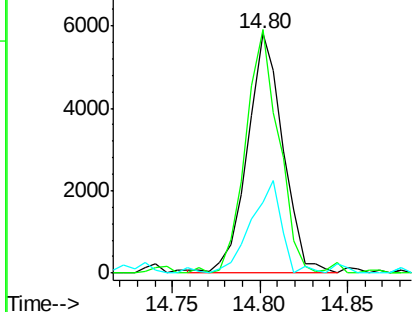


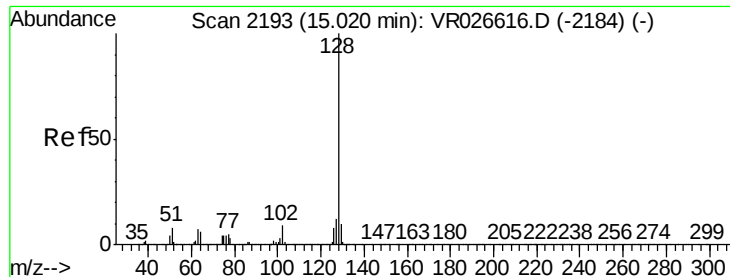
#68
 1,2,4-trichlorobenzene
 Concen: 0.289 ug/L
 RT: 14.80 min Scan# 2157
 Delta R.T. 0.00 min
 Lab File: VR026619.D
 Acq: 11 Sep 2019 13:43

Tgt Ion:180 Resp: 8256
 Ion Ratio Lower Upper
 180 100
 182 94.4 77.7 116.5
 145 33.3 26.0 39.0



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: 0.223 ug/L

RT: 15.01 min Scan# 2192

Delta R.T. -0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

Instrument :

MSVOA_R

ClientSampleId :

MDL02

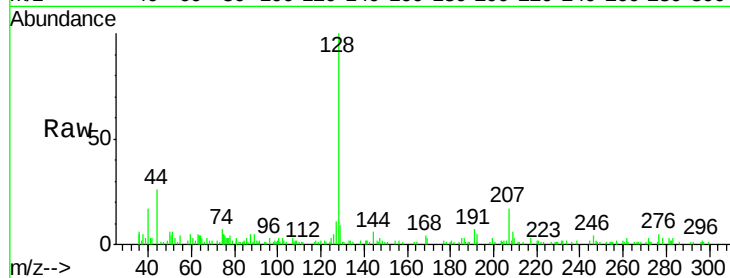
Tot Ion:128 Resp: 8952

Ion Ratio Lower Upper

128 100

127 14.5 11.4 17.2

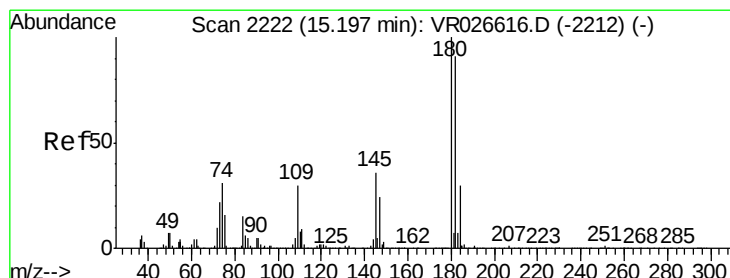
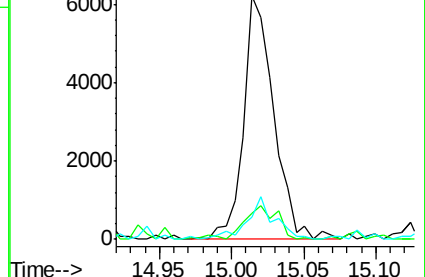
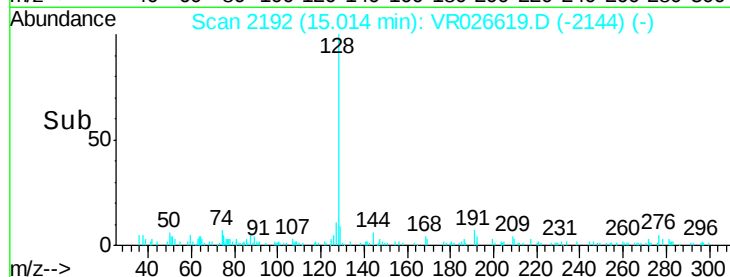
129 15.9 9.0 13.4#



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: 0.290 ug/L

RT: 15.20 min Scan# 2223

Delta R.T. 0.01 min

Lab File: VR026619.D

Acq: 11 Sep 2019 13:43

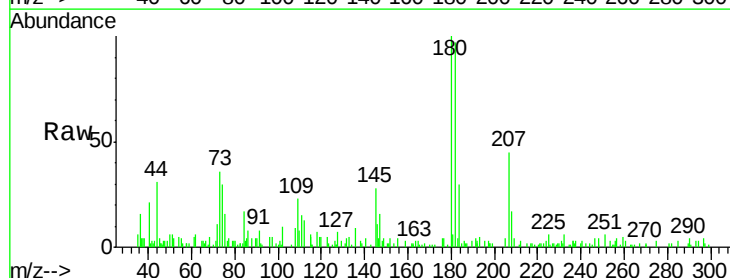
Tgt Ion:180 Resp: 6953

Ion Ratio Lower Upper

180 100

182 94.0 76.1 114.1

145 42.0 27.4 41.2#



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

