

Data File : VR026225.D
Acq On : 19 Nov 2018 17:17
Operator : SY/MD
Sample : J5997-08
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_R
ClientSampleId :
E3YA6

Quant Time: Nov 20 04:19:09 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR110918WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 20 04:16:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.48	114	548162	5.00	ug/L	0.02
28) Chlorobenzene-d5	11.30	117	671568	5.00	ug/L	0.01
60) 1,4-Dichlorobenzene-d4	13.23	152	279203	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.17	65	157646	3.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.00%
7) Chloroethane-d5	2.63	69	180282	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.60%
11) 1,1-Dichloroethene-d2	3.64	63	334229	3.13	ug/L	0.03
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.60%
20) 2-Butanone-d5	6.61	46	218746	62.20	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	124.40%
24) Chloroform-d	7.22	84	335391	4.67	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
26) 1,2-Dichloroethane-d4	7.91	65	131943	4.63	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.60%
32) Benzene-d6	7.88	84	681039	3.54	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.80%
36) 1,2-Dichloropropane-d6	8.94	67	280323	5.48	ug/L	0.04
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.60%
41) Toluene-d8	10.02	98	199366	1.12	ug/L	0.05
Spiked Amount	5.000	Range	70 - 130	Recovery	=	22.40%#
43) trans-1,3-Dichloropropene-	10.19	79	133547	10.43	ug/L	-0.05
Spiked Amount	5.000	Range	55 - 130	Recovery	=	208.60%#
46) 2-Hexanone-d5	10.61	63	461706	123.74	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	247.48%#
57) 1,1,2,2-Tetrachloroethane-	12.37	84	81547	3.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	77.40%
64) 1,2-Dichlorobenzene-d4	13.52	152	205087	5.06	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.20%

Target Compounds

					Qvalue
5) Vinyl chloride	2.18	62	8714	0.148 ug/L #	67
12) 1,1-Dichloroethene	3.66	96	23454	0.438 ug/L #	1
13) Acetone	3.73	43	43575	11.723 ug/L	77
15) Methyl Acetate	3.96	43	7999	0.828 ug/L #	57
19) 1,1-Dichloroethane	5.72	63	72946	0.964 ug/L	89
21) 2-Butanone	6.70	43	5249	1.223 ug/L #	50
22) cis-1,2-Dichloroethene	6.70	96	196731	5.382 ug/L #	92
29) 1,1,1-Trichloroethane	7.48	97	304127	3.383 ug/L	98
30) Cyclohexane	7.56	56	52142	0.662 ug/L #	83
31) Carbon tetrachloride	7.48	117	34333	0.430 ug/L	100
34) Trichloroethene	8.73	95	68105	1.103 ug/L	97
35) Methylcyclohexane	8.99	83	900938	11.219 ug/L	84
37) 1,2-Dichloropropane	8.94	63	15103	0.297 ug/L #	1
38) Bromodichloromethane	9.28	83	20808	0.367 ug/L #	41
40) 4-Methyl-2-pentanone	10.08	43	1861413	129.569 ug/L #	48
42) Toluene	10.06	91	67999245	269.275 ug/L #	56
44) trans-1,3-Dichloropropene	10.24	75	987438	25.755 ug/L #	1

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	10.46	97	983374	44.808	ug/L #	20
47) Tetrachloroethene	10.55	164	196425	4.656	ug/L	94
48) 2-Hexanone	10.61	43	44354	4.578	ug/L #	61
49) Dibromochloromethane	10.55	129	199737	7.684	ug/L #	11
52) Ethylbenzene	11.41	91	28750548	100.375	ug/L #	3
53) m,p-Xylene	11.52	106	20544160	197.599	ug/L #	33
54) o-Xylene	11.84	106	5027452	52.989	ug/L	60
55) Styrene	11.84	104	289239	1.961	ug/L #	1
56) Isopropylbenzene	12.14	105	1379470	5.384	ug/L	98
65) 1,2-Dichlorobenzene	13.53	146	18257	0.257	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.14	75	2989	1.136	ug/L #	38
69) Naphthalene	15.01	128	110758	3.573	ug/L	97

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

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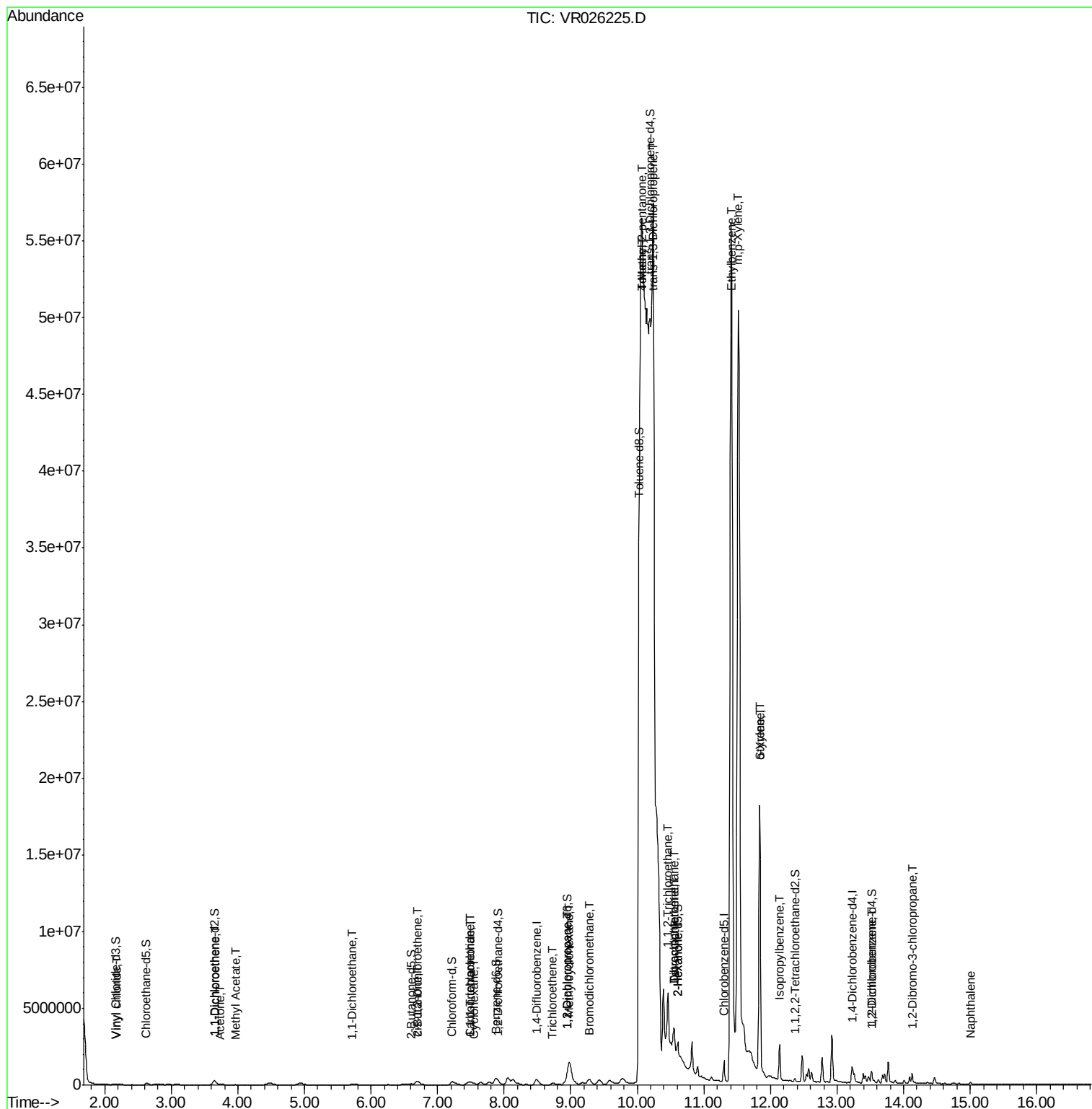
Quant Time: Nov 20 04:19:09 2018

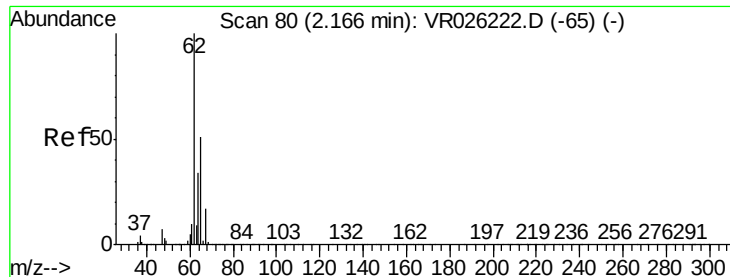
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR110918WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Tue Nov 20 04:16:20 2018

Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.148 ug/L

RT: 2.18 min Scan# 83

Delta R.T. 0.02 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

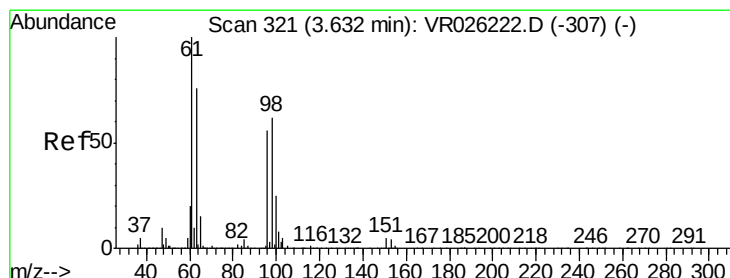
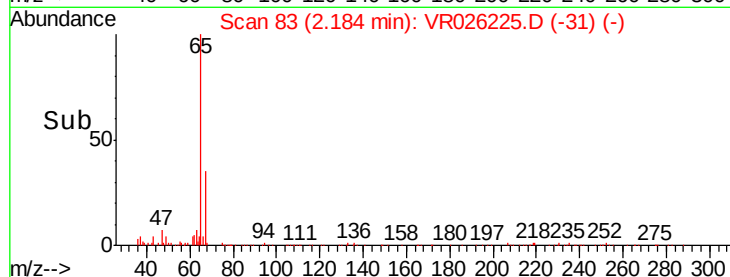
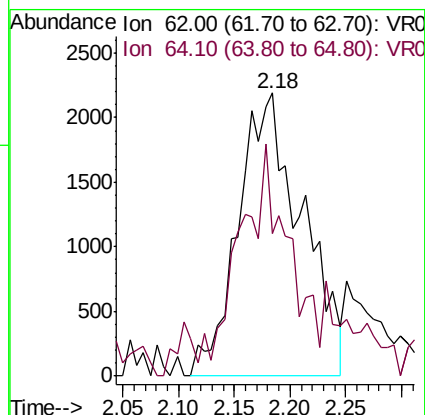
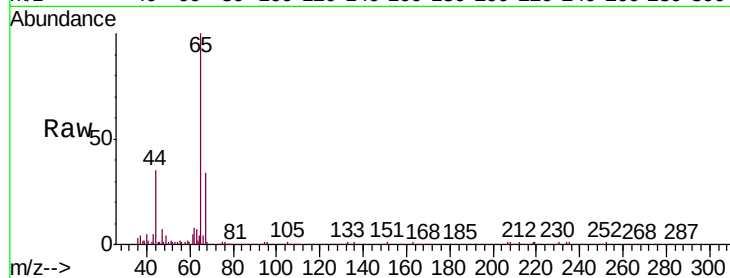
E3YA6

Tgt Ion: 62 Resp: 8714

Ion Ratio Lower Upper

62 100

64 50.5 22.5 41.7#



#12

1,1-Dichloroethene

Concen: 0.438 ug/L

RT: 3.66 min Scan# 326

Delta R.T. 0.03 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

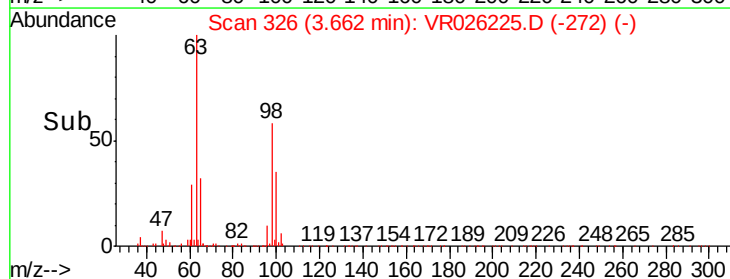
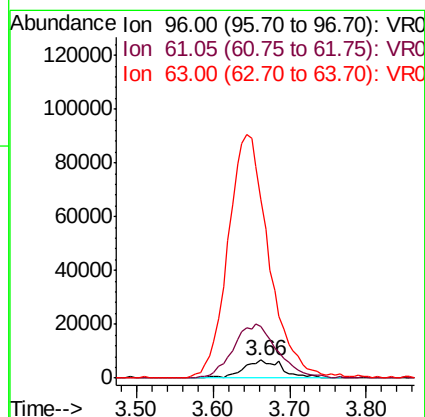
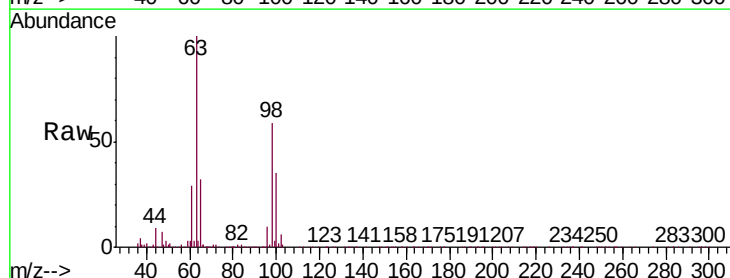
Tgt Ion: 96 Resp: 23454

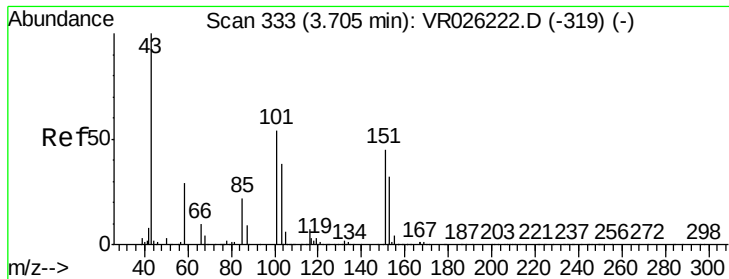
Ion Ratio Lower Upper

96 100

61 288.8 125.5 233.1#

63 986.4 93.7 174.1#

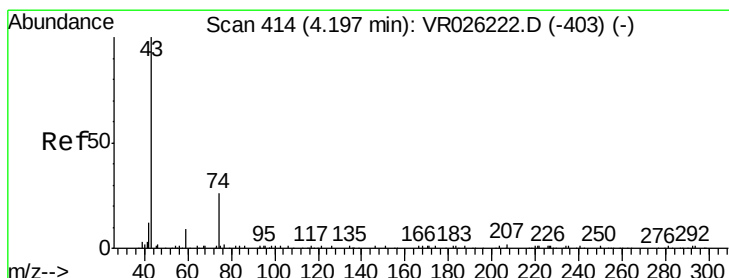
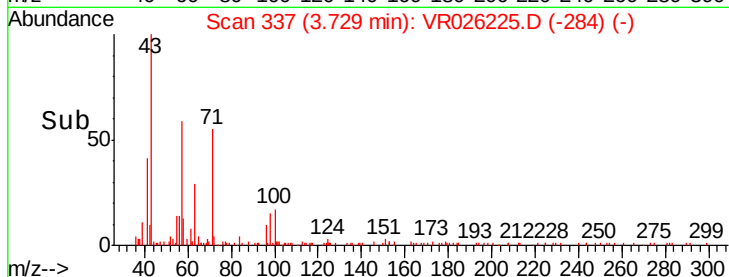
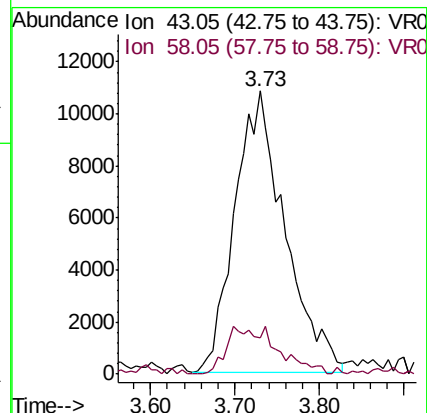
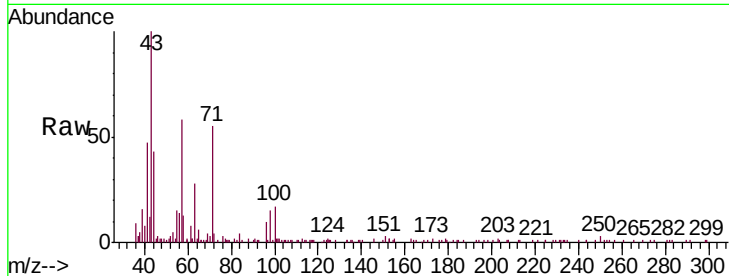




#13
Acetone
Concen: 11.723 ug/L
RT: 3.73 min Scan# 337
Delta R.T. 0.02 min
Lab File: VR026225.D
Acq: 19 Nov 2018 17:17

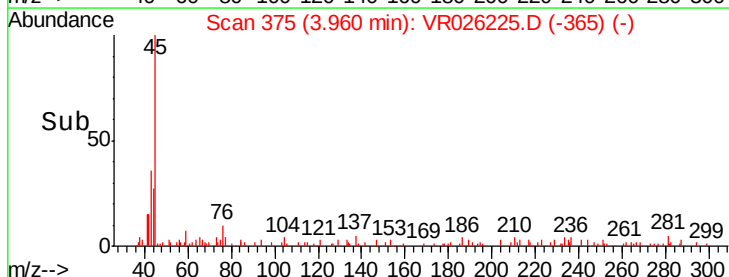
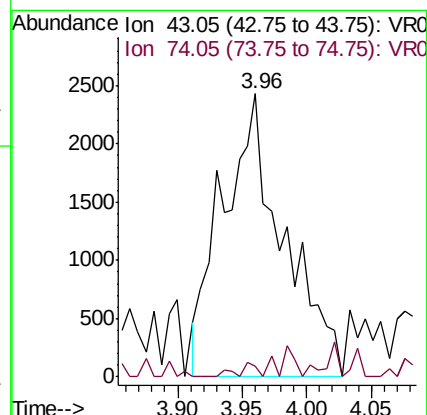
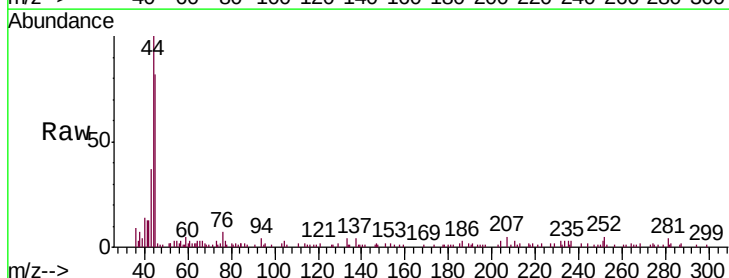
Instrument :
MSVOA_R
ClientSampleId :
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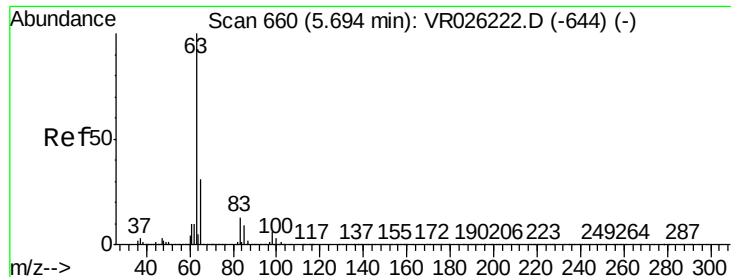
Tgt Ion: 43 Resp: 43575
Ion Ratio Lower Upper
43 100
58 17.2 0.0 58.6



#15
Methyl Acetate
Concen: 0.828 ug/L
RT: 3.96 min Scan# 375
Delta R.T. -0.24 min
Lab File: VR026225.D
Acq: 19 Nov 2018 17:17

Tgt Ion: 43 Resp: 7999
Ion Ratio Lower Upper
43 100
74 1.5 17.8 26.6#





#19

1,1-Dichloroethane

Concen: 0.964 ug/L

RT: 5.72 min Scan# 664

Delta R.T. 0.02 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

E3YA6

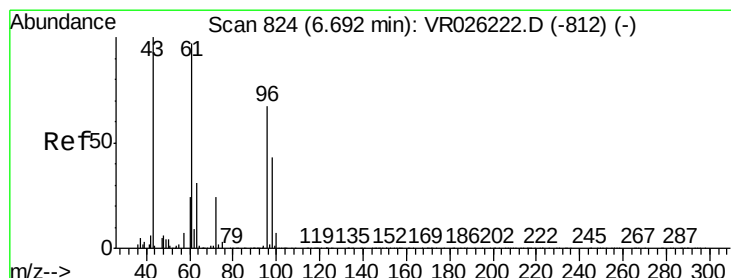
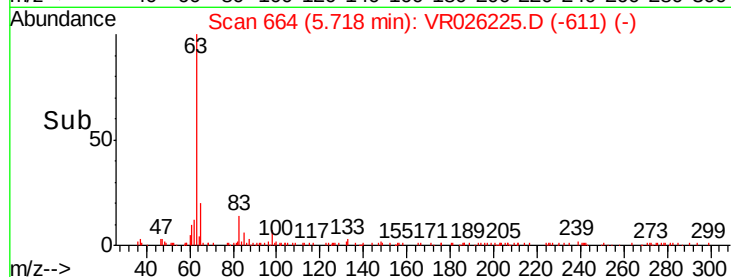
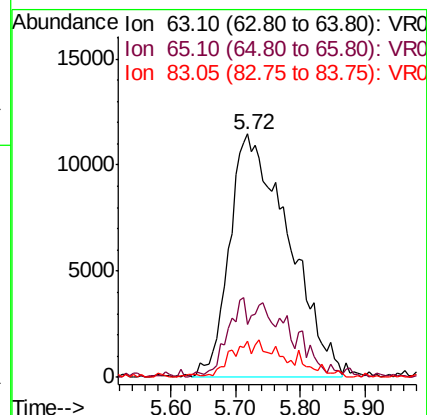
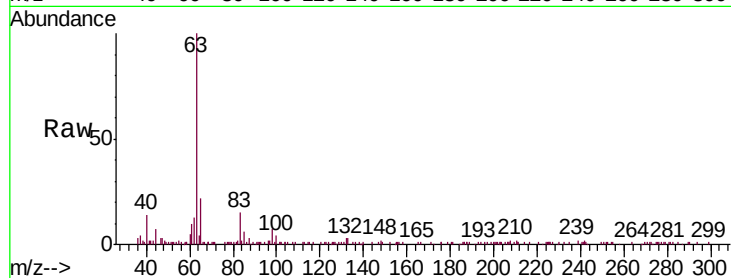
Tgt Ion: 63 Resp: 72946

Ion Ratio Lower Upper

63 100

65 22.4 20.9 38.7

83 14.9 9.1 16.9



#21

2-Butanone

Concen: 1.223 ug/L

RT: 6.70 min Scan# 825

Delta R.T. 0.01 min

Lab File: VR026225.D

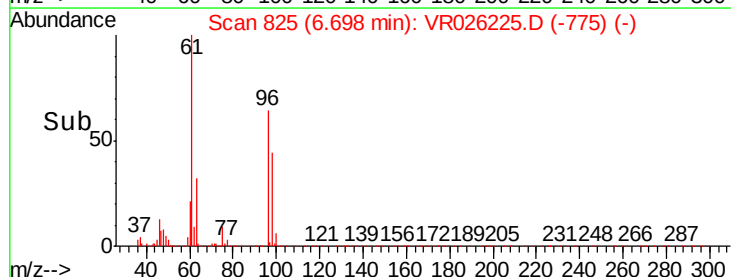
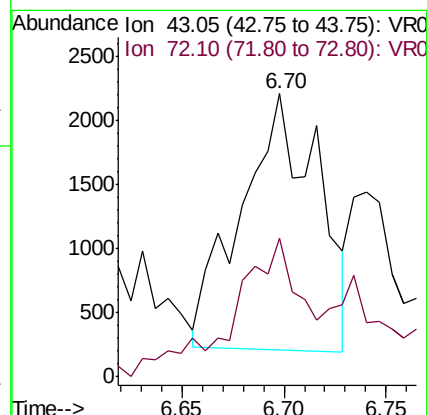
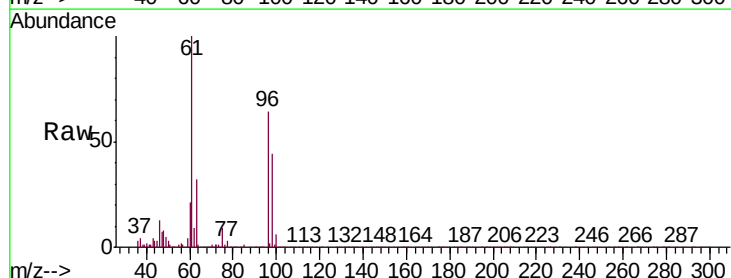
Acq: 19 Nov 2018 17:17

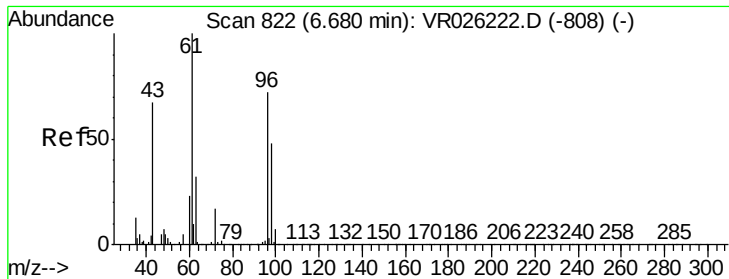
Tgt Ion: 43 Resp: 5249

Ion Ratio Lower Upper

43 100

72 48.7 11.9 35.9#



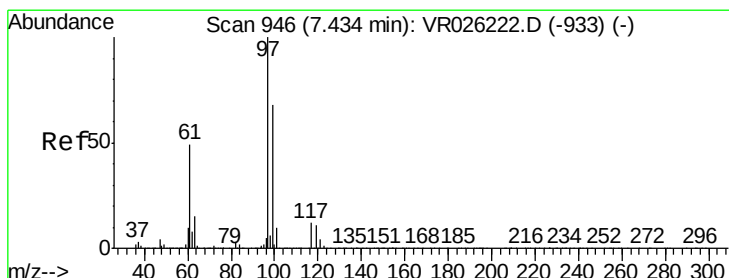
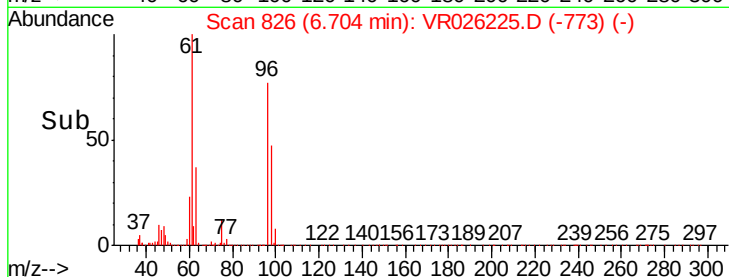
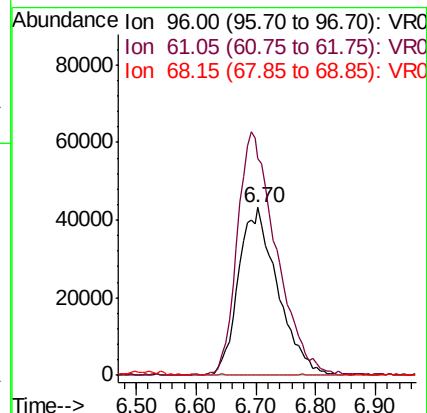
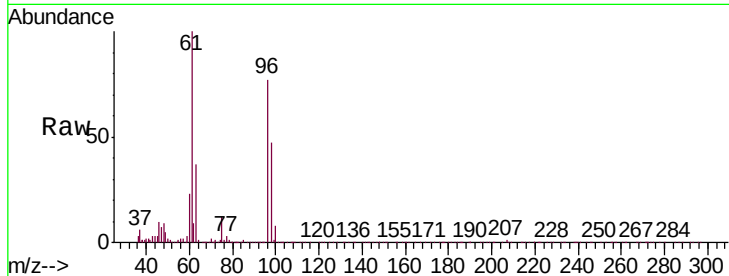


#22

cis-1,2-Dichloroethene
 Concen: 5.382 ug/L
 RT: 6.70 min Scan# 826
 Delta R.T. 0.02 min
 Lab File: VR026225.D
 Acq: 19 Nov 2018 17:17

Instrument :
 MSVOA_R
 ClientSampleId :
 E3YA6

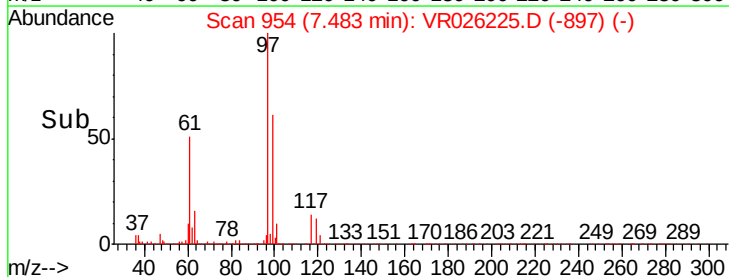
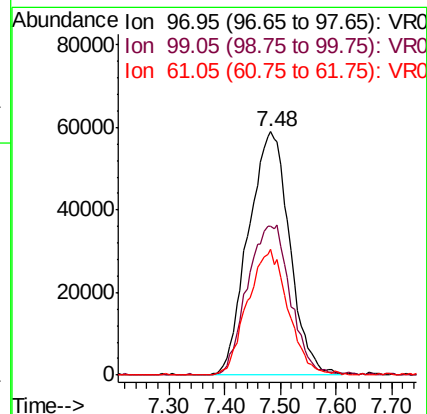
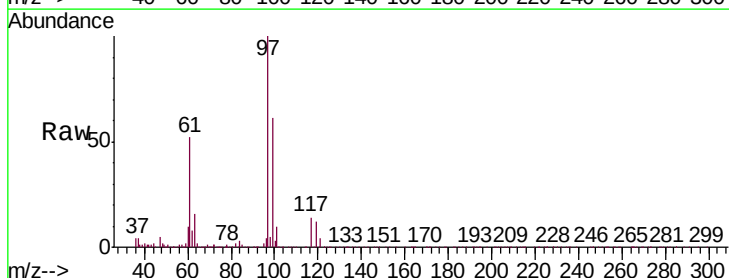
Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.1	97.4	180.8
68	0.5	0.1	0.3

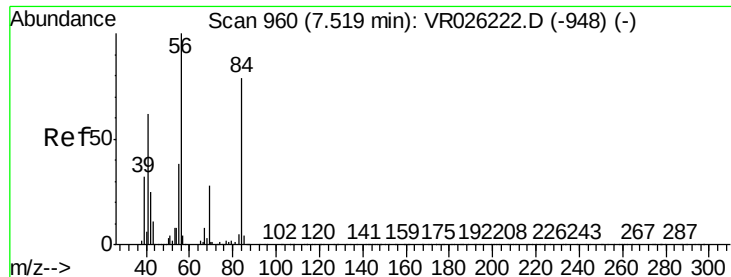


#29

1,1,1-Trichloroethane
 Concen: 3.383 ug/L
 RT: 7.48 min Scan# 954
 Delta R.T. 0.05 min
 Lab File: VR026225.D
 Acq: 19 Nov 2018 17:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	52.2	78.2
61	50.4	41.6	62.4

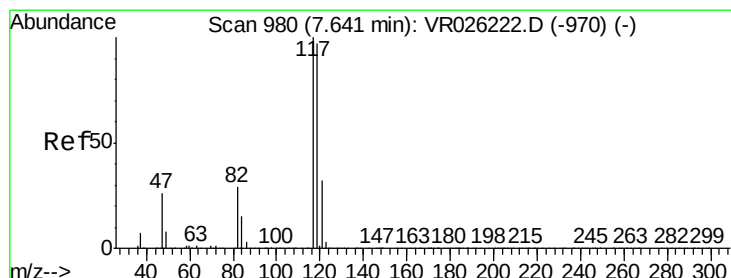
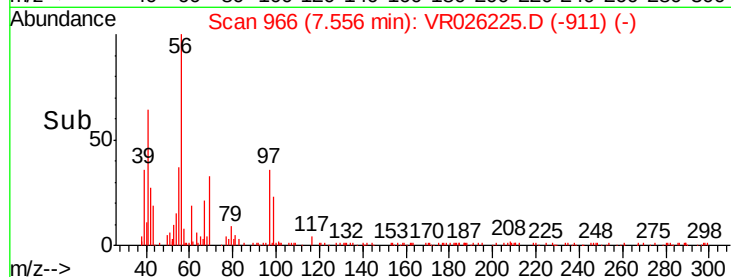
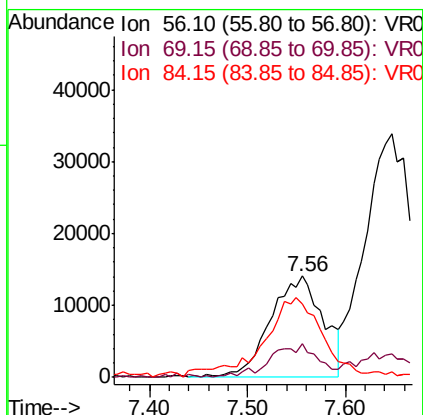
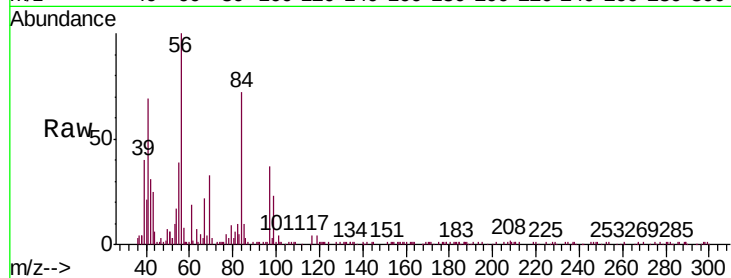




#30
Cyclohexane
Concen: 0.662 ug/L
RT: 7.56 min Scan# 966
Delta R.T. 0.04 min
Lab File: VR026225.D
Acq: 19 Nov 2018 17:17

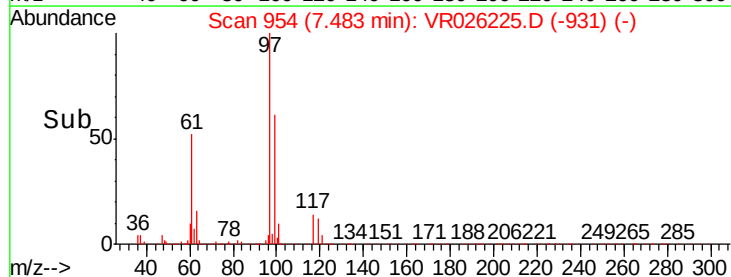
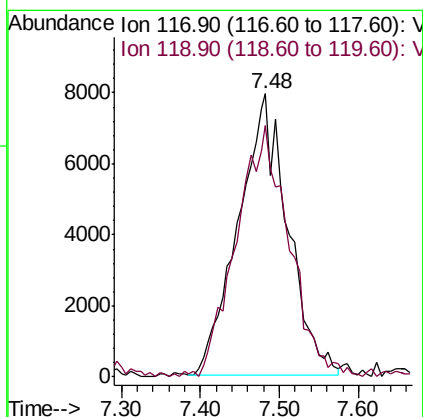
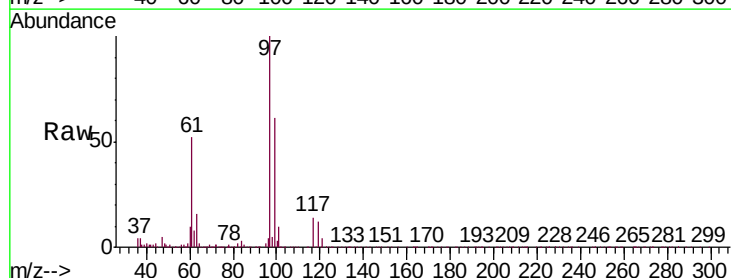
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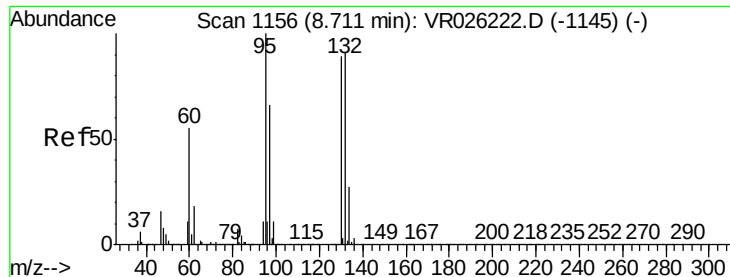
Tgt Ion: 56 Resp: 52142
Ion Ratio Lower Upper
56 100
69 18.0 23.0 34.6#
84 89.1 60.8 91.2



#31
Carbon tetrachloride
Concen: 0.430 ug/L
RT: 7.48 min Scan# 954
Delta R.T. -0.16 min
Lab File: VR026225.D
Acq: 19 Nov 2018 17:17

Tgt Ion: 117 Resp: 34333
Ion Ratio Lower Upper
117 100
119 95.7 76.7 115.1





#34

Trichloroethene

Concen: 1.103 ug/L

RT: 8.73 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

E3YA6

Tgt Ion: 95 Resp: 68105

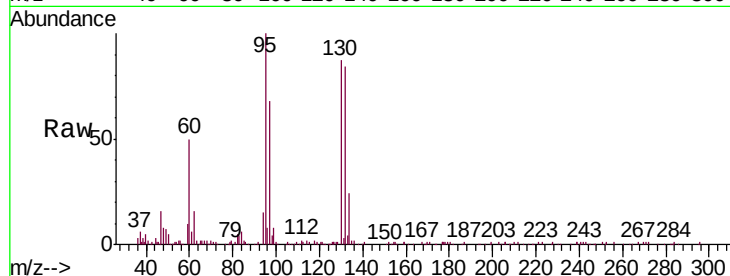
Ion Ratio Lower Upper

95 100

97 67.9 43.5 80.7

132 84.4 58.0 107.6

130 87.2 61.5 114.3

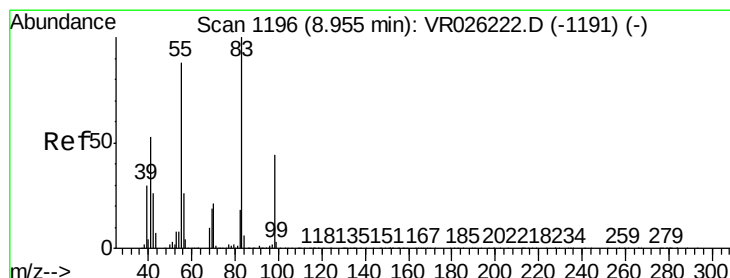
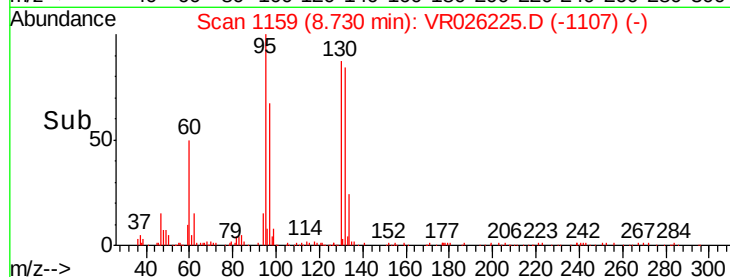
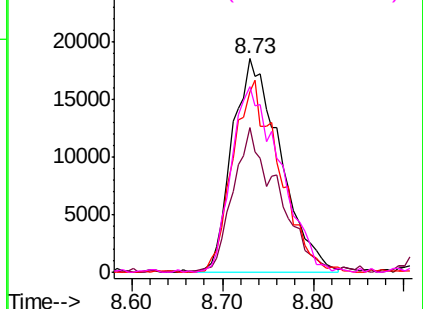


Abundance Ion 95.00 (94.70 to 95.70): VR0

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: 11.219 ug/L

RT: 8.99 min Scan# 1201

Delta R.T. 0.03 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

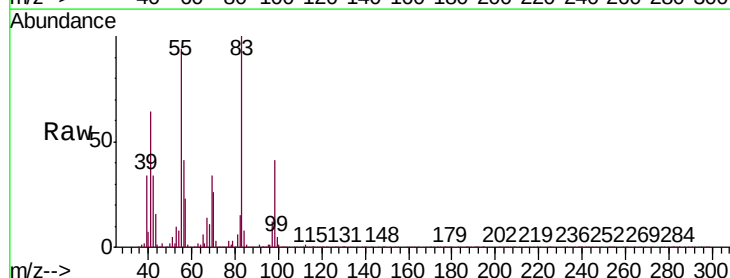
Tgt Ion: 83 Resp: 900938

Ion Ratio Lower Upper

83 100

55 100.6 67.9 101.9

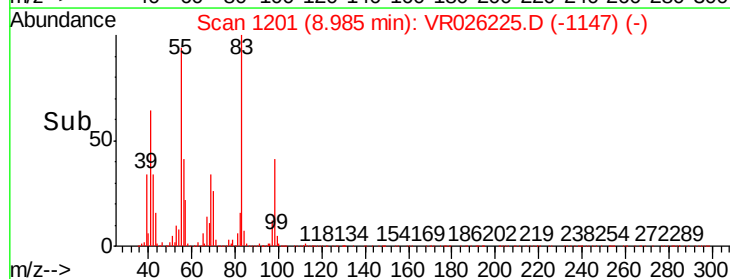
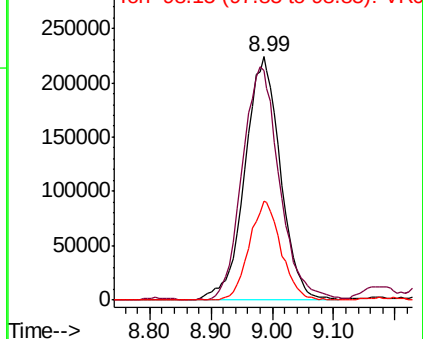
98 36.6 35.8 53.6

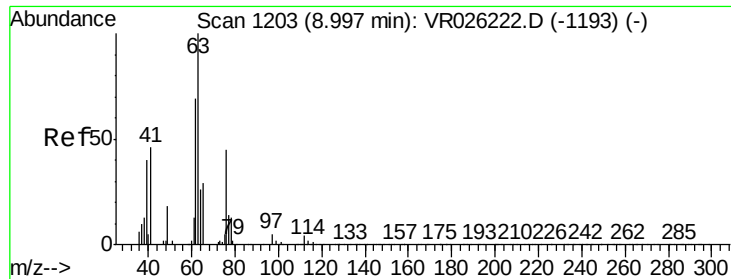


Abundance Ion 83.15 (82.85 to 83.85): VR0

Ion 55.10 (54.80 to 55.80): VR0

Ion 98.15 (97.85 to 98.85): VR0





#37

1,2-Dichloropropane

Concen: 0.297 ug/L

RT: 8.94 min Scan# 1193

Delta R.T. -0.06 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

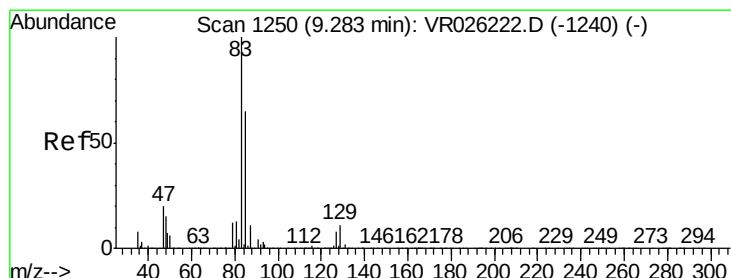
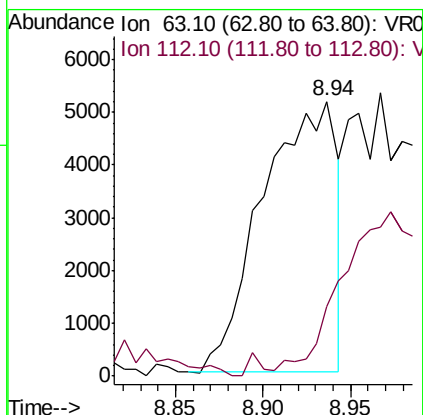
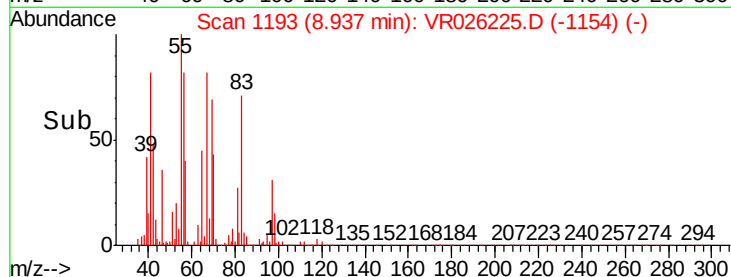
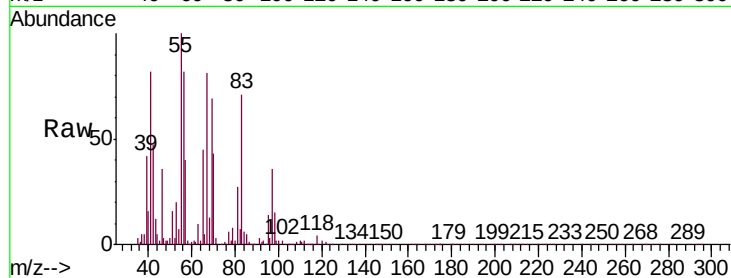
E3YA6

Tgt Ion: 63 Resp: 15103

Ion Ratio Lower Upper

63 100

112 66.9 2.8 4.2#



#38

Bromodichloromethane

Concen: 0.367 ug/L

RT: 9.28 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

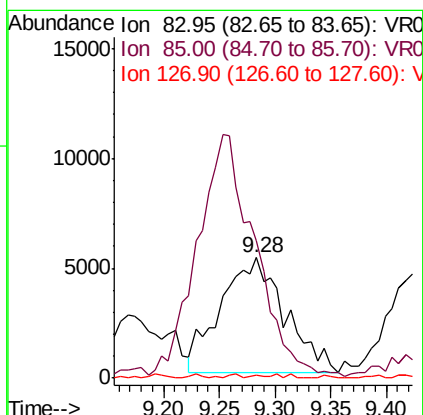
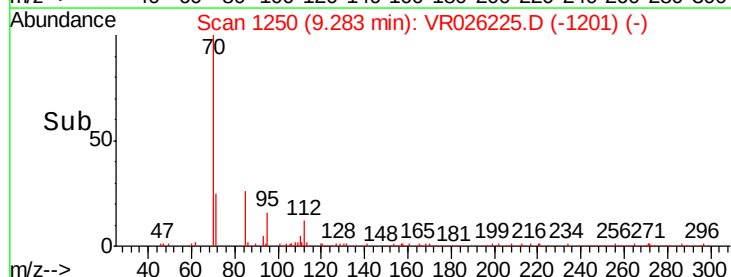
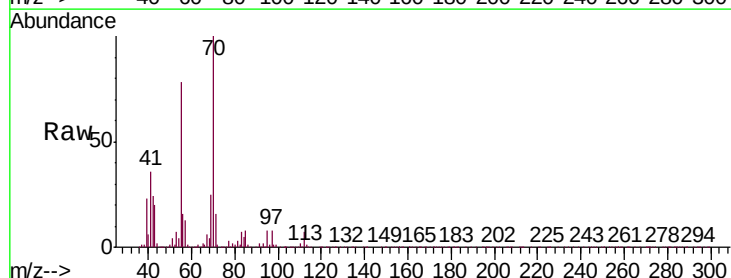
Tgt Ion: 83 Resp: 20808

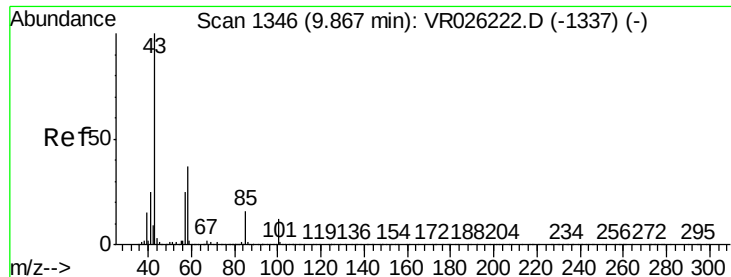
Ion Ratio Lower Upper

83 100

85 113.9 44.4 82.4#

127 2.3 6.9 10.3#

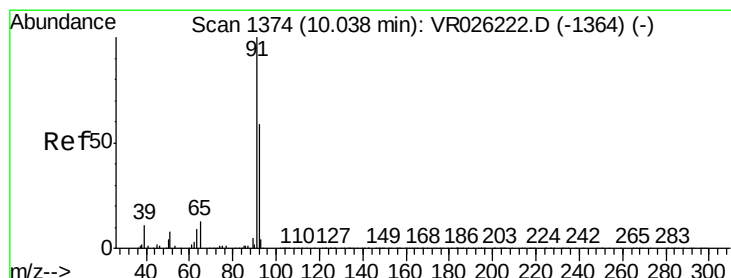
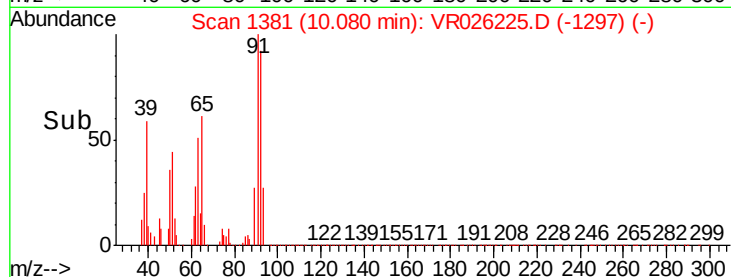
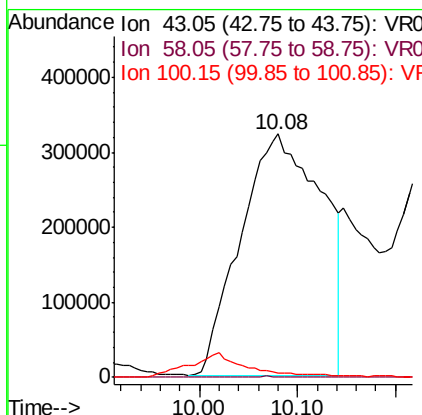
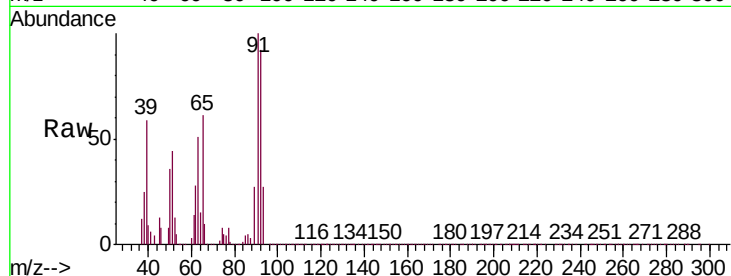




#40
4-Methyl-2-pentanone
Concen: 129.569 ug/L
RT: 10.08 min Scan# 1381
Delta R.T. 0.21 min
Lab File: VR026225.D
Acq: 19 Nov 2018 17:17

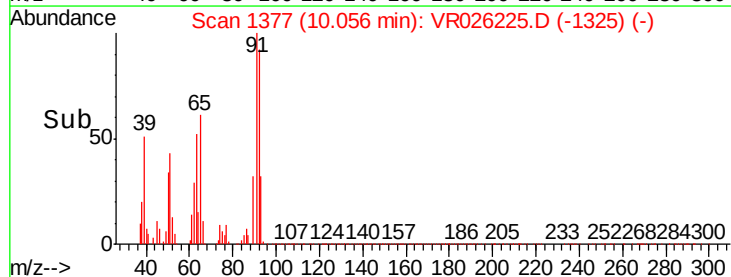
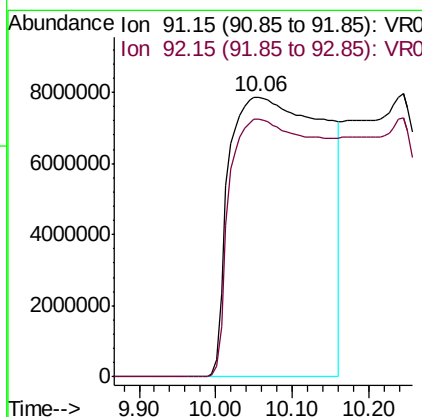
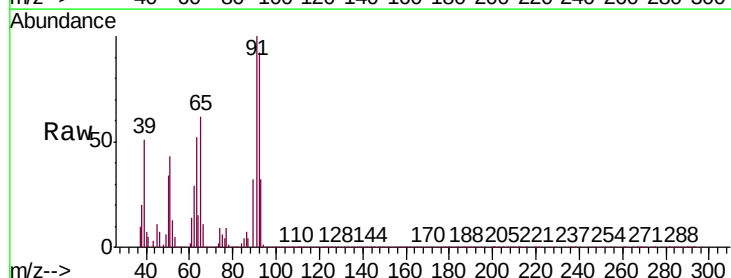
Instrument :
MSVOA_R
ClientSampleId :
E3YA6

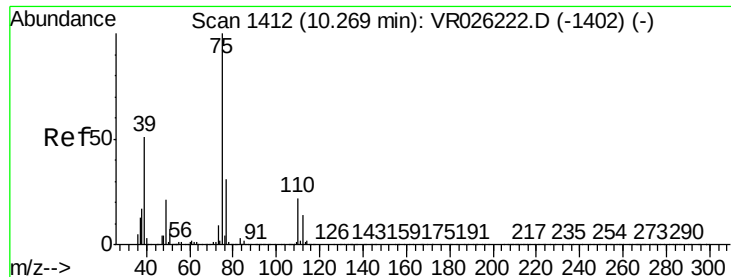
Tgt Ion: 43 Resp: 1861413
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.6#
100 0.0 9.4 14.2#



#42
Toluene
Concen: 269.275 ug/L
RT: 10.06 min Scan# 1377
Delta R.T. 0.02 min
Lab File: VR026225.D
Acq: 19 Nov 2018 17:17

Tgt Ion: 91 Resp: 67999245
Ion Ratio Lower Upper
91 100
92 92.0 41.4 76.8#





#44

trans-1,3-Dichloropropene

Concen: 25.755 ug/L

RT: 10.24 min Scan# 1408

Delta R.T. -0.02 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

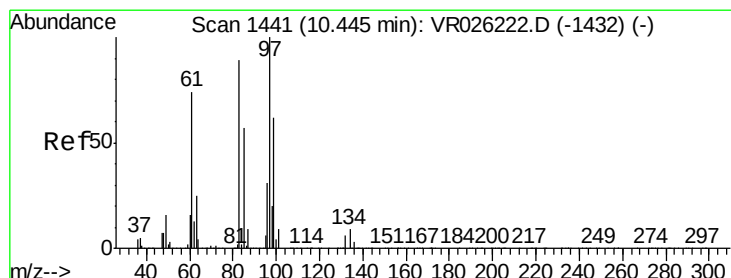
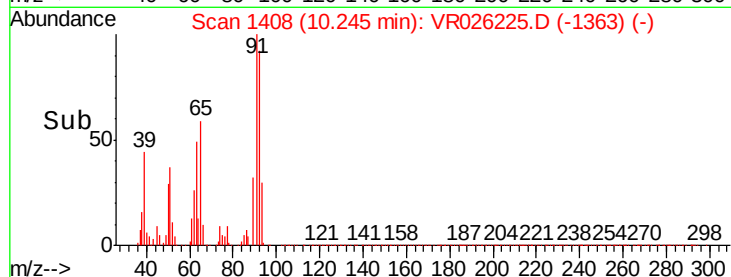
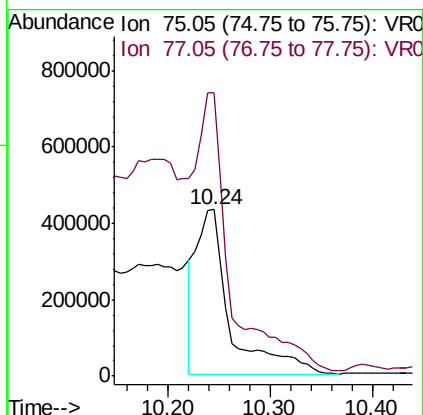
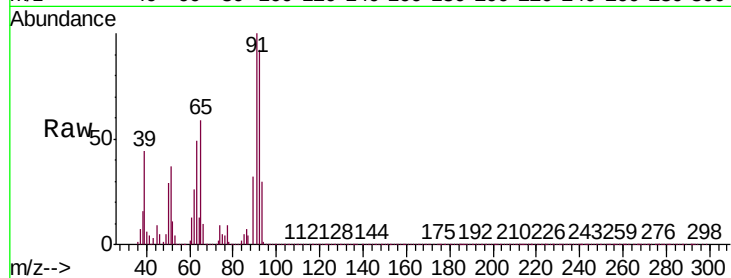
E3YA6

Tgt Ion: 75 Resp: 987438

Ion Ratio Lower Upper

75 100

77 170.0 23.7 44.1#



#45

1,1,2-Trichloroethane

Concen: 44.808 ug/L

RT: 10.46 min Scan# 1444

Delta R.T. 0.02 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Tgt Ion: 97 Resp: 983374

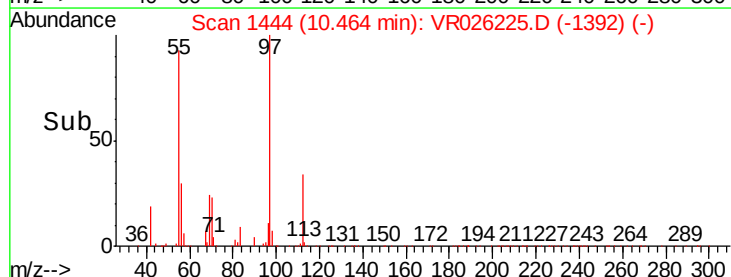
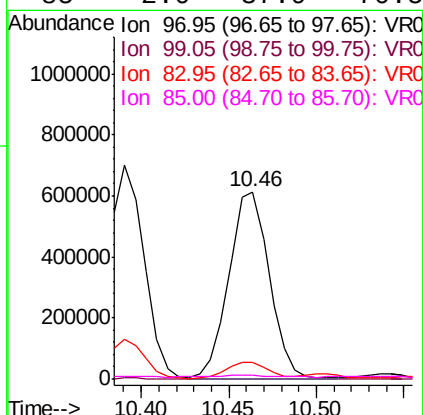
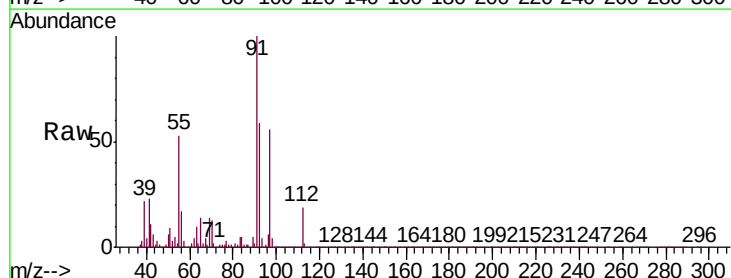
Ion Ratio Lower Upper

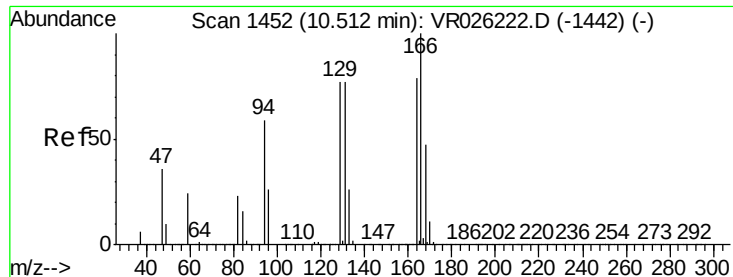
97 100

99 0.2 43.0 80.0#

83 9.1 61.0 113.2#

85 2.0 37.9 70.5#





#47

Tetrachloroethene

Concen: 4.656 ug/L

RT: 10.55 min Scan# 1458

Delta R.T. 0.04 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

E3YA6

Tgt Ion:164 Resp: 196425

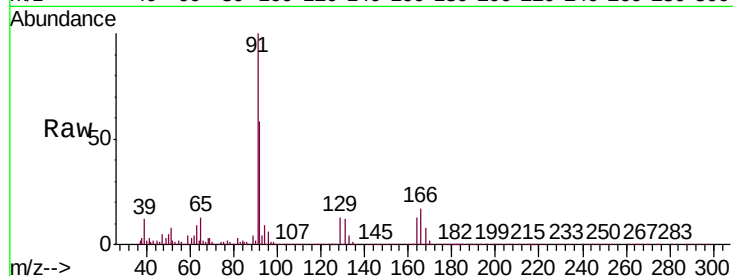
Ion Ratio Lower Upper

164 100

129 102.0 72.3 134.3

131 92.5 73.4 136.2

166 126.2 91.4 169.8

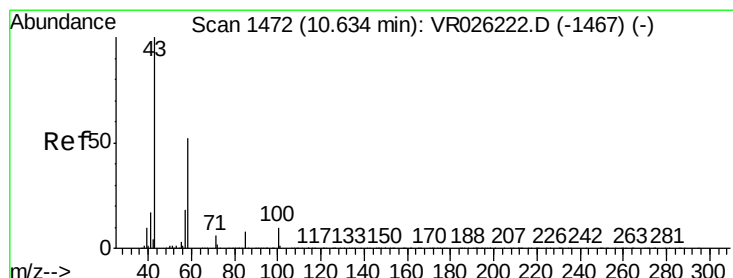
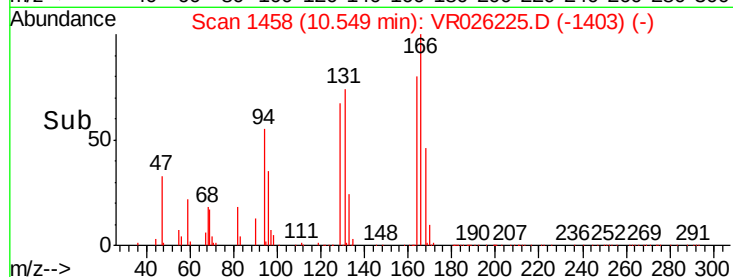
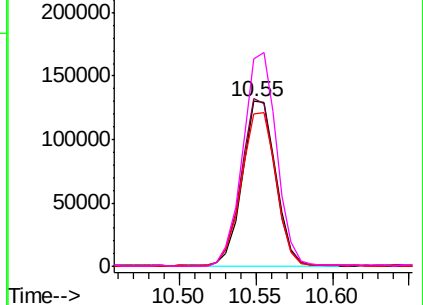


Abundance Ion 163.90 (163.60 to 164.60): V

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: 4.578 ug/L

RT: 10.61 min Scan# 1468

Delta R.T. -0.02 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Tgt Ion: 43 Resp: 44354

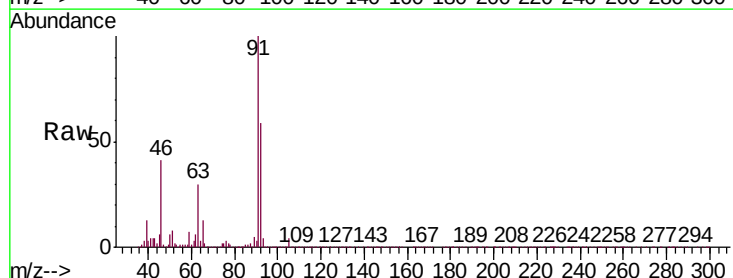
Ion Ratio Lower Upper

43 100

58 24.6 40.0 60.0#

57 41.3 14.6 21.8#

100 1.6 7.4 11.0#

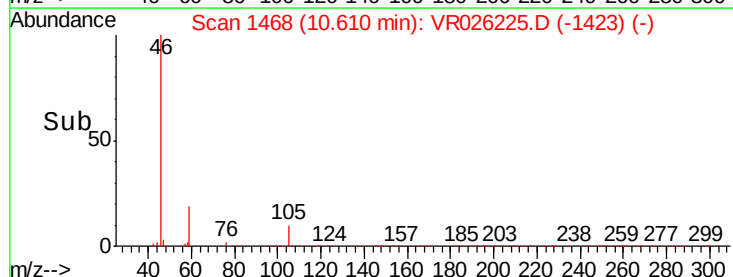
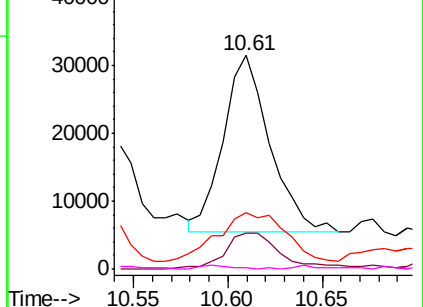


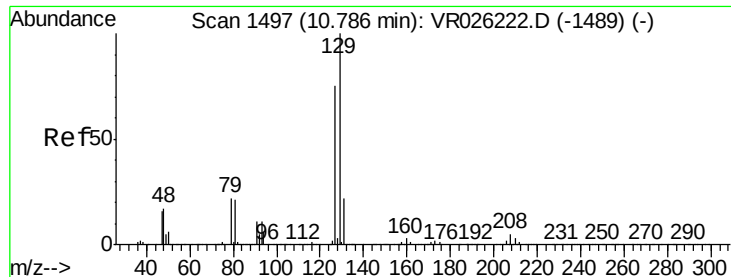
Abundance Ion 43.05 (42.75 to 43.75): VR0

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: 7.684 ug/L

RT: 10.55 min Scan# 1458

Delta R.T. -0.24 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

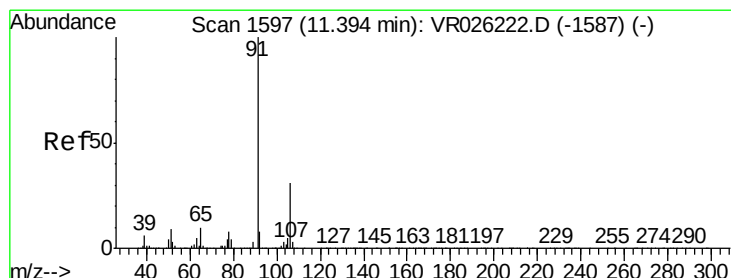
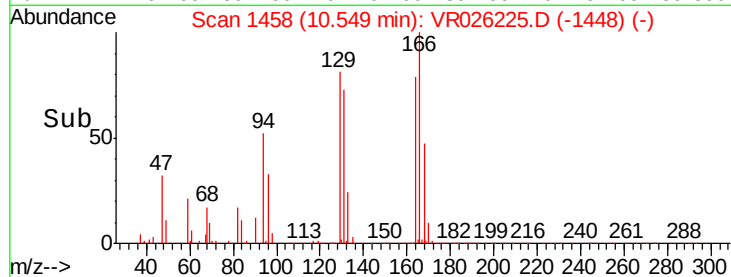
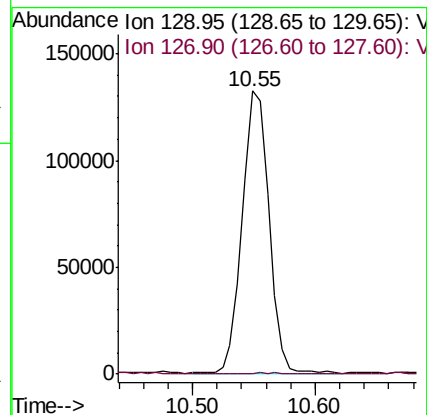
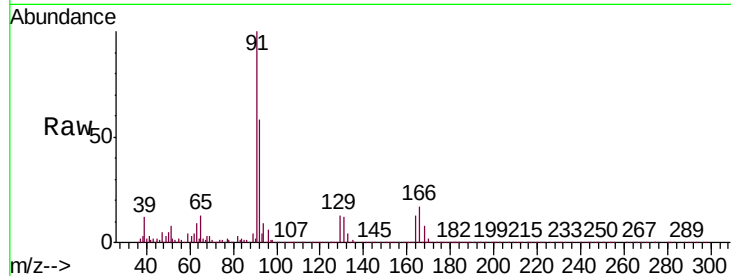
E3YA6

Tgt Ion:129 Resp: 199737

Ion Ratio Lower Upper

129 100

127 0.3 54.7 101.7#



#52

Ethylbenzene

Concen: 100.375 ug/L

RT: 11.41 min Scan# 1600

Delta R.T. 0.02 min

Lab File: VR026225.D

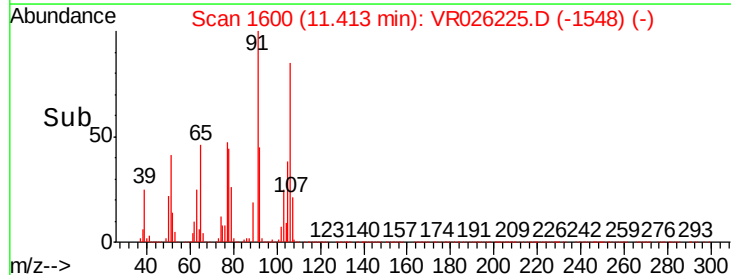
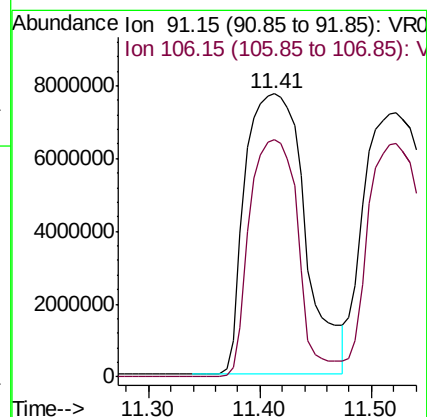
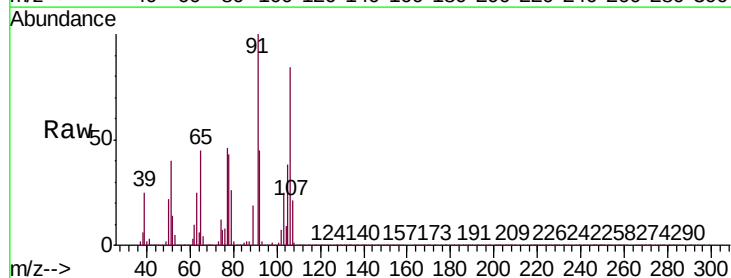
Acq: 19 Nov 2018 17:17

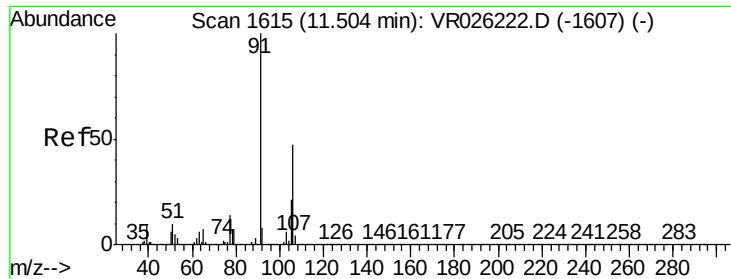
Tgt Ion: 91 Resp:28750548

Ion Ratio Lower Upper

91 100

106 83.9 21.5 39.9#





#53

m,p-Xylene

Concen: 197.599 ug/L

RT: 11.52 min Scan# 1618

Delta R.T. 0.02 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

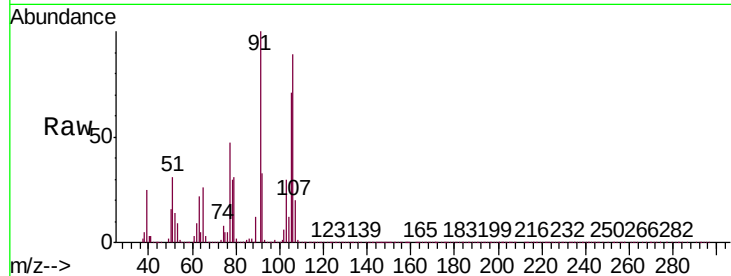
E3YA6

Tgt Ion:106 Resp:20544160

Ion Ratio Lower Upper

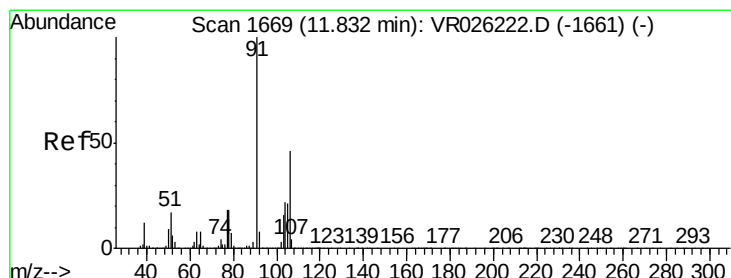
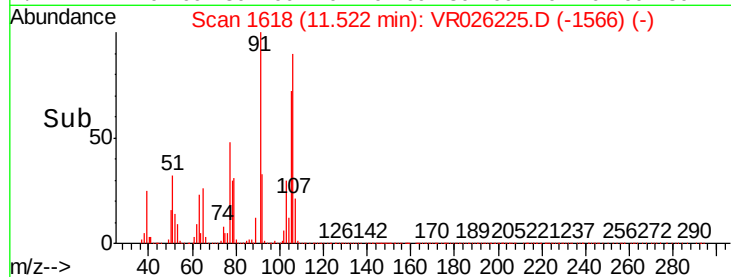
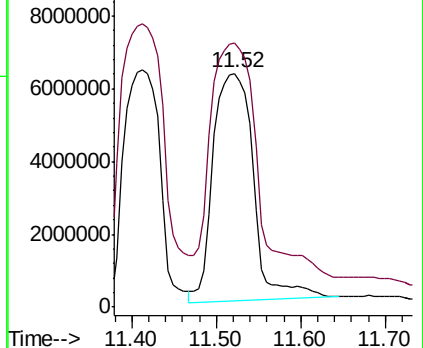
106 100

91 112.8 153.9 285.9#



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#54

o-Xylene

Concen: 52.989 ug/L

RT: 11.84 min Scan# 1670

Delta R.T. 0.01 min

Lab File: VR026225.D

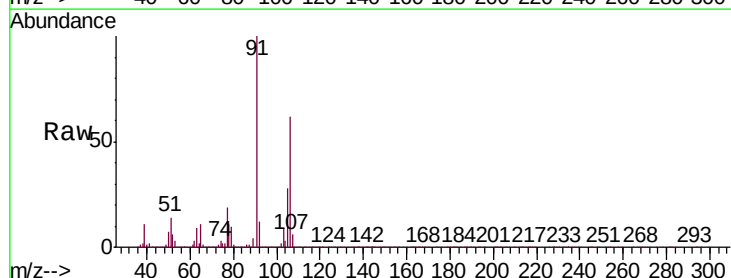
Acq: 19 Nov 2018 17:17

Tgt Ion:106 Resp: 5027452

Ion Ratio Lower Upper

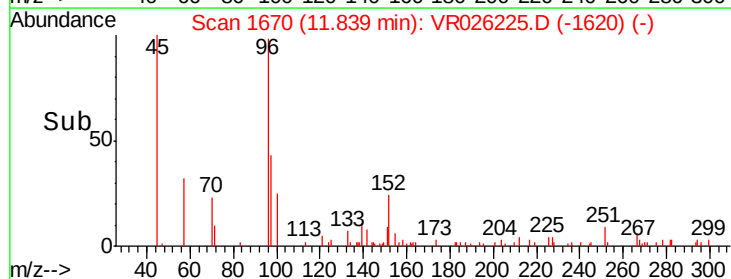
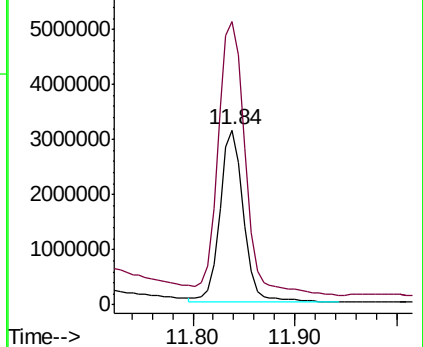
106 100

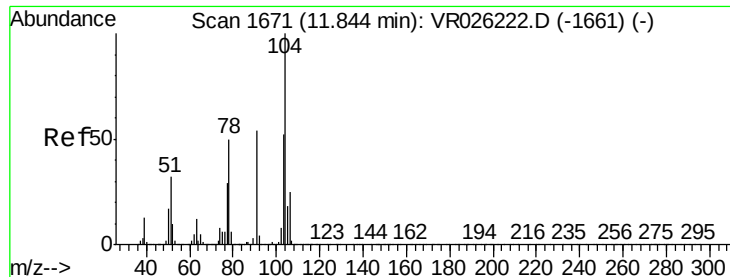
91 161.8 159.5 296.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0





#55

Styrene

Concen: 1.961 ug/L

RT: 11.84 min Scan# 1670

Delta R.T. -0.01 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

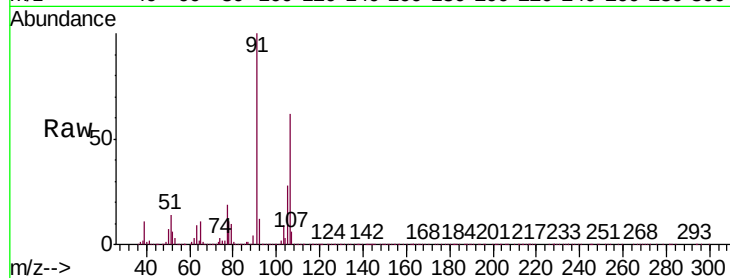
E3YA6

Tgt Ion:104 Resp: 289239

Ion Ratio Lower Upper

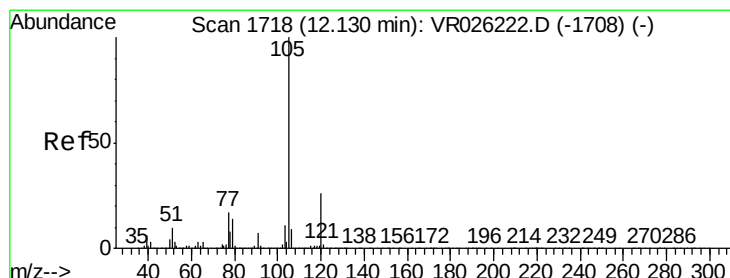
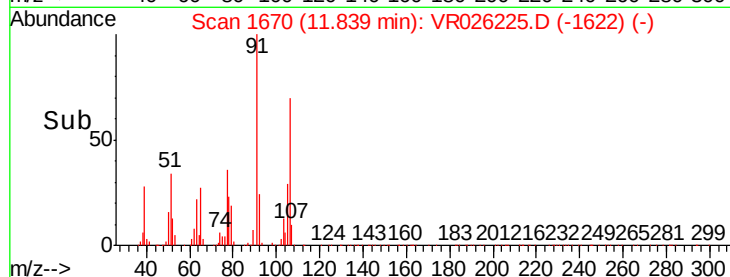
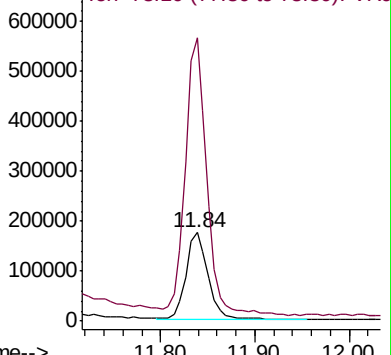
104 100

78 320.0 36.8 68.3#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VR0



#56

Isopropylbenzene

Concen: 5.384 ug/L

RT: 12.14 min Scan# 1719

Delta R.T. 0.01 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

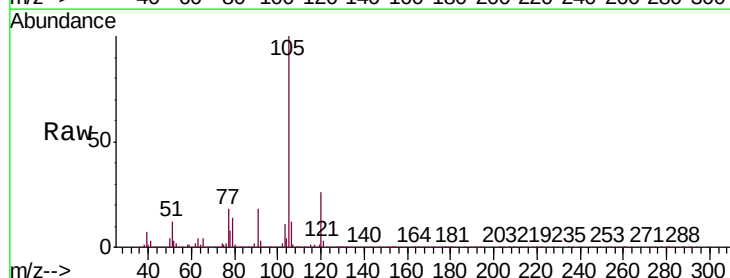
Tgt Ion:105 Resp: 1379470

Ion Ratio Lower Upper

105 100

120 26.7 20.4 30.6

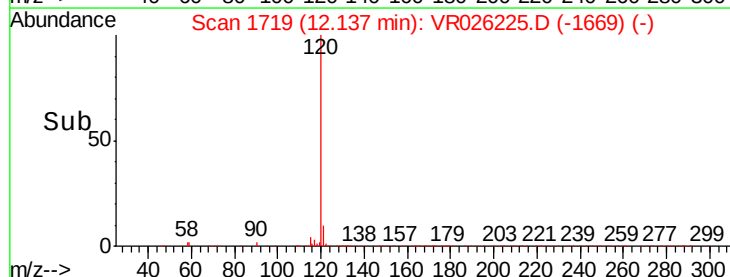
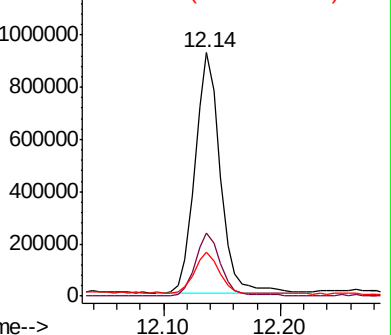
77 17.0 14.3 21.5

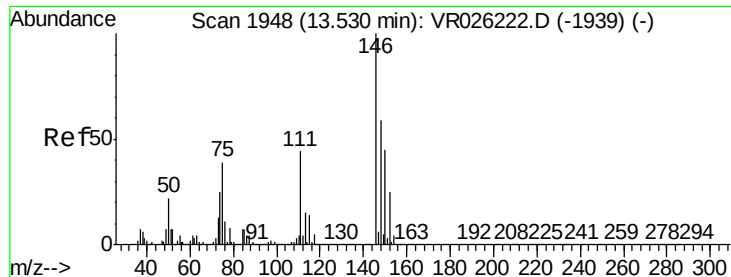


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VR0

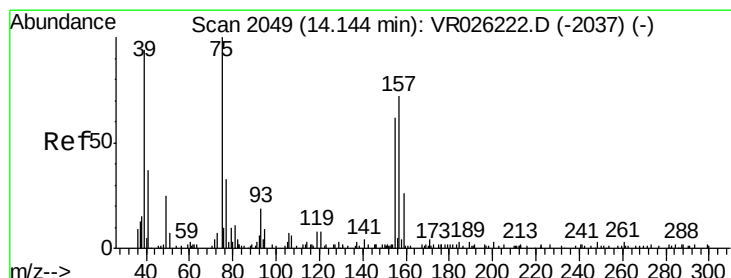
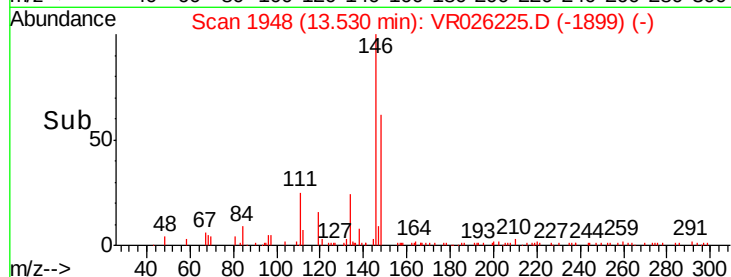
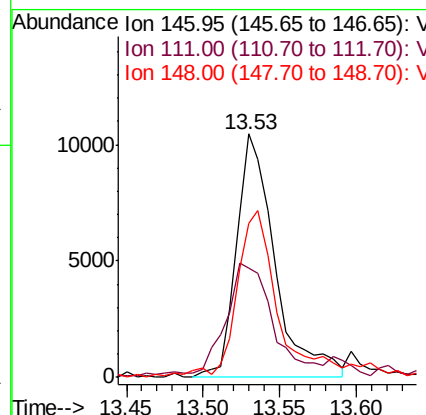
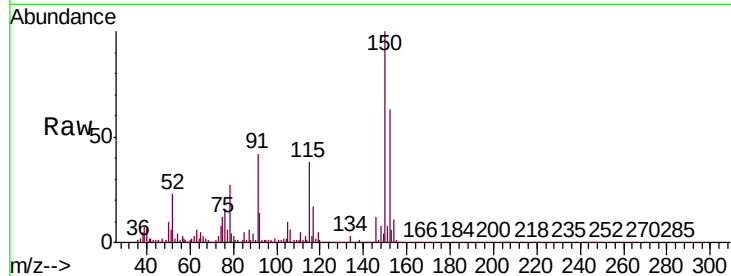




#65
 1,2-Dichlorobenzene
 Concen: 0.257 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. 0.00 min
 Lab File: VR026225.D
 Acq: 19 Nov 2018 17:17

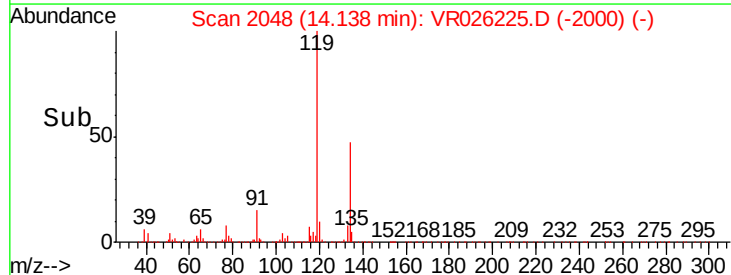
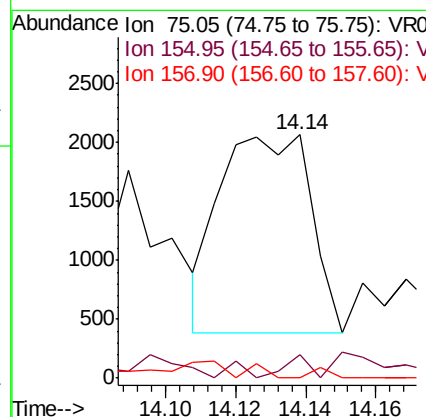
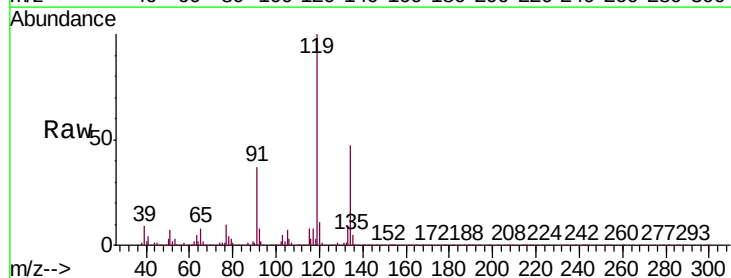
Instrument :
 MSVOA_R
 ClientSampleId :
 E3YA6

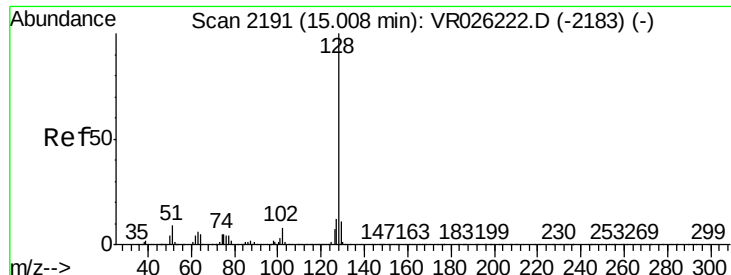
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.9	35.0	52.6
148	63.2	51.6	77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.136 ug/L
 RT: 14.14 min Scan# 2048
 Delta R.T. -0.01 min
 Lab File: VR026225.D
 Acq: 19 Nov 2018 17:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	9.5	37.8	56.6#
157	0.0	34.6	51.8#





#69

Naphthalene

Concen: 3.573 ug/L

RT: 15.01 min Scan# 2191

Delta R.T. 0.00 min

Lab File: VR026225.D

Acq: 19 Nov 2018 17:17

Instrument :

MSVOA_R

ClientSampleId :

E3YA6

Tgt Ion:128 Resp: 110758

Ion Ratio Lower Upper

128 100

127 10.9 9.8 14.8

129 9.7 8.4 12.6

