

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010419\
 Data File : VX006914.D
 Acq On : 04 Jan 2019 15:38
 Operator : JC/MD
 Sample : K1032-04DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0646DL

Quant Time: Jan 04 22:18:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	644722	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	993573	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	902145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	436451	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	339948	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
35) Dibromofluoromethane	5.51	113	306232	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
50) Toluene-d8	8.71	98	1155080	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
62) 4-Bromofluorobenzene	11.13	95	411023	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	

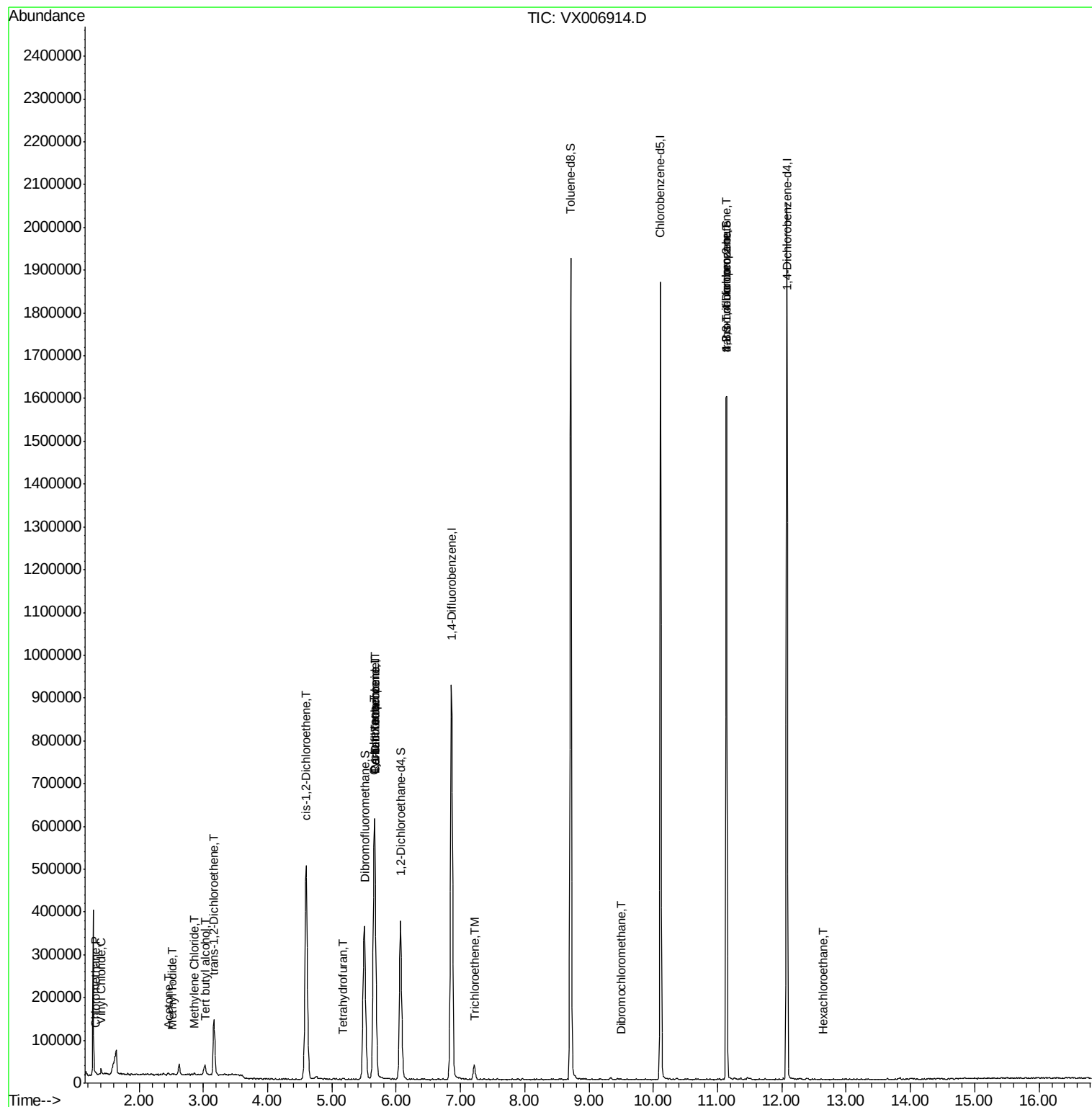
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	3400	0.535	ug/l #	82
4) Vinyl Chloride	1.41	62	9555	1.440	ug/l	93
5) Bromomethane	1.64	94	4321	Below Cal		99
10) Methyl Iodide	2.52	142	2210	0.254	ug/l #	90
11) Tert butyl alcohol	3.03	59	15135	9.760	ug/l #	83
16) Acetone	2.45	43	4547	1.424	ug/l	93
20) Methylene Chloride	2.85	84	2422	0.367	ug/l #	88
21) trans-1,2-Dichloroethene	3.17	96	53197	8.335	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	336162	47.737	ug/l	92
28) Bromochloromethane	5.02	49	421	Below Cal	#	50
29) Tetrahydrofuran	5.16	42	772	0.261	ug/l	89
31) Cyclohexane	5.65	56	12394	1.288	ug/l #	5
36) 1,1-Dichloropropene	5.67	75	41421	5.033	ug/l #	49
38) Carbon Tetrachloride	5.66	117	58587	7.326	ug/l #	14
44) Trichloroethene	7.21	130	14166	1.871	ug/l	98
49) 1,4-Dioxane	7.75	88	76	Below Cal	#	1
60) Dibromochloromethane	9.50	129	58	2.332	ug/l	59
76) 1,2,3-Trichloropropane	11.13	75	199003	24.535	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	199003	72.578	ug/l #	10
90) Hexachloroethane	12.65	117	123	3.321	ug/l	87

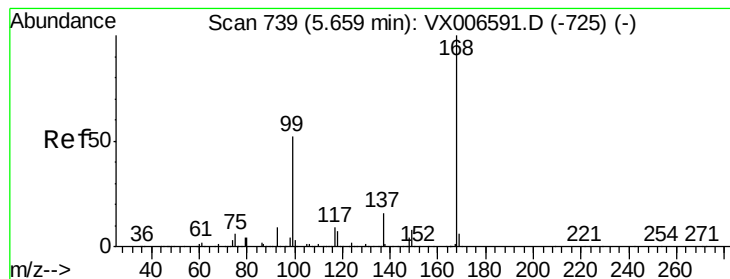
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010419\
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Instrument :
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ClientSampleId :
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Quant Time: Jan 04 22:18:41 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

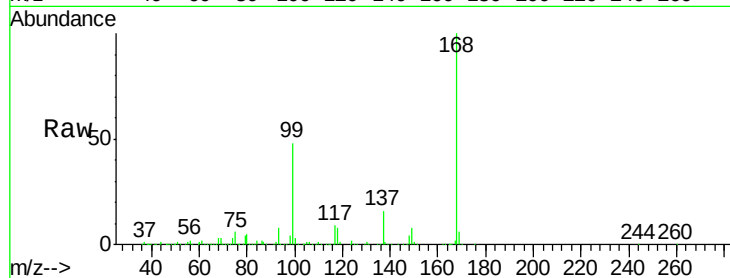
S32-0646DL

Tot Ion:168 Resp: 644722

Ion Ratio Lower Upper

168 100

99 47.6 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

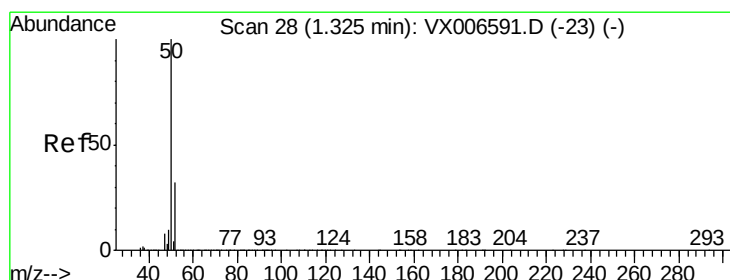
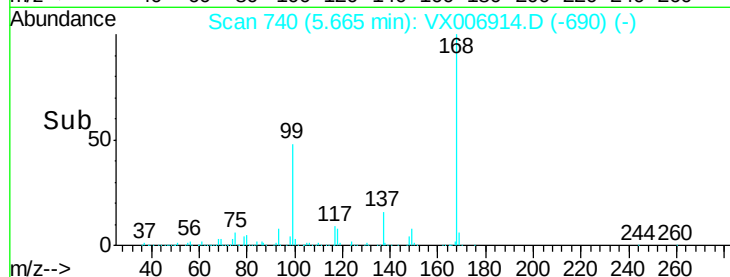
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.535 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006914.D

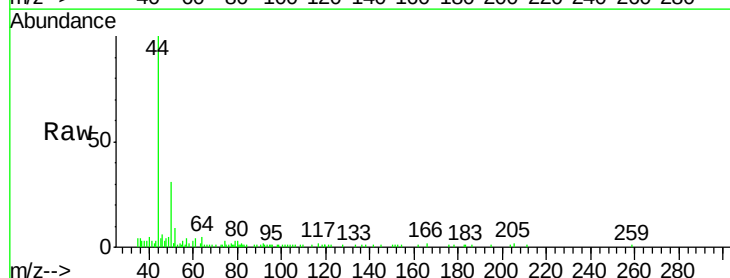
Acq: 04 Jan 2019 15:38

Tgt Ion: 50 Resp: 3400

Ion Ratio Lower Upper

50 100

52 21.6 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

3000

2500

2000

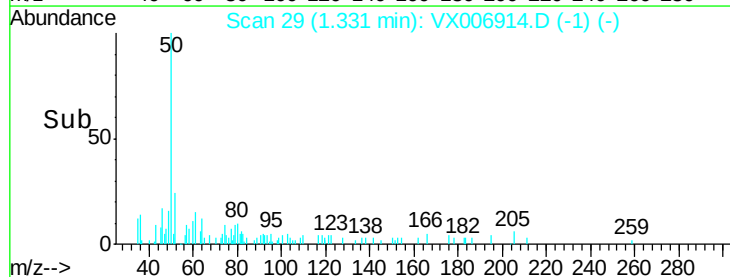
1500

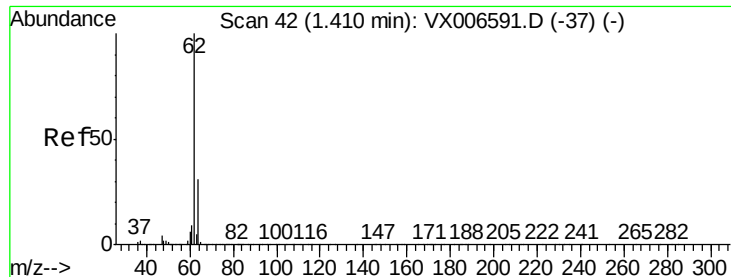
1000

500

0

Time--> 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 1.440 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

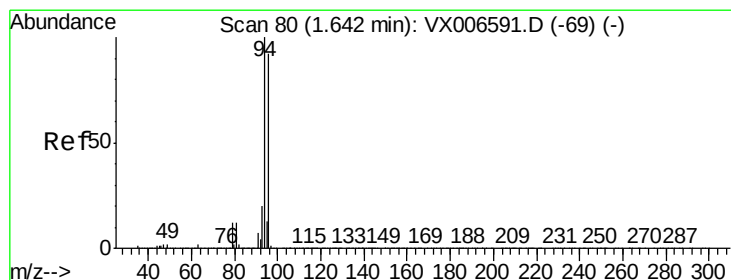
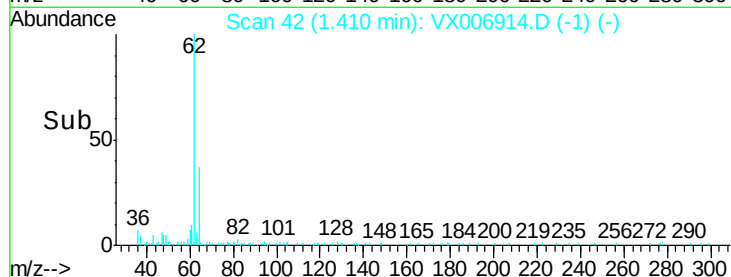
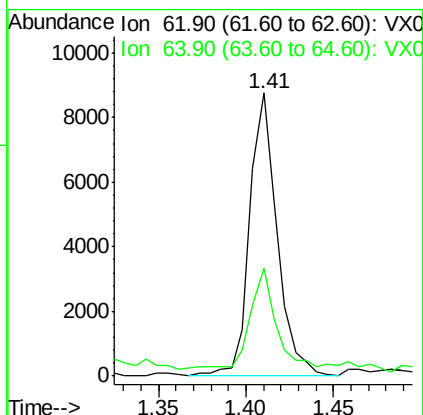
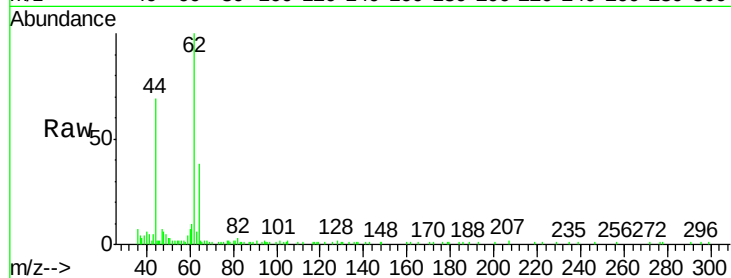
S32-0646DL

Tot Ion: 62 Resp: 9555

Ion Ratio Lower Upper

62 100

64 35.0 25.1 37.7



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006914.D

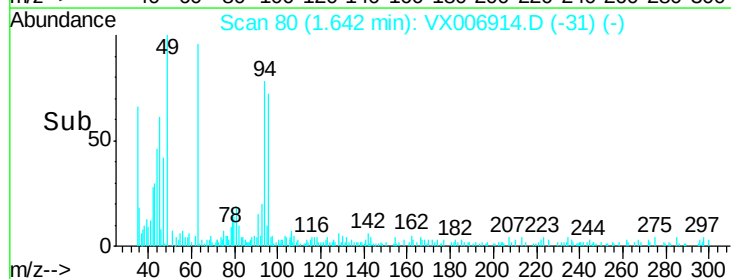
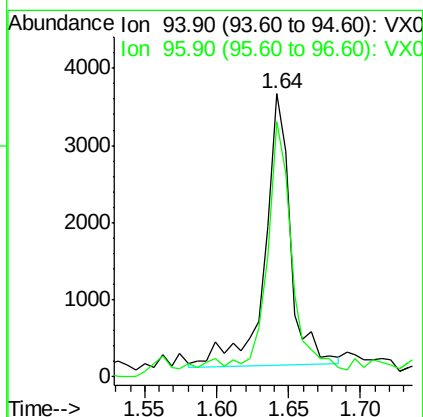
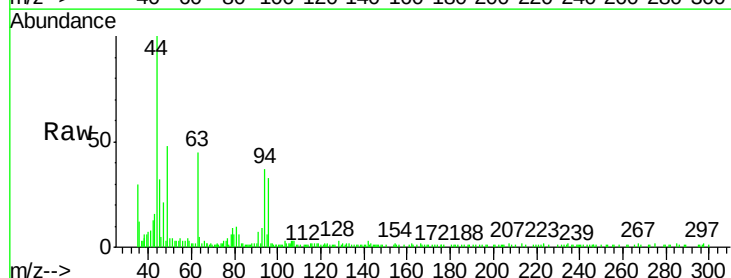
Acq: 04 Jan 2019 15:38

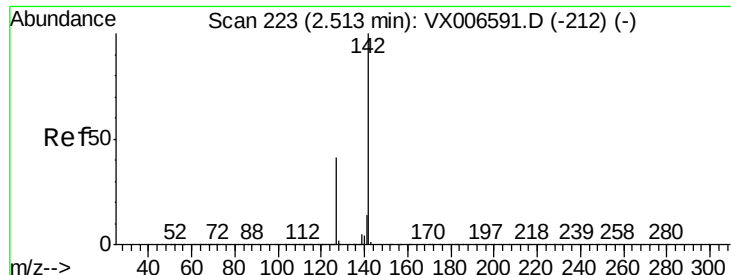
Tgt Ion: 94 Resp: 4321

Ion Ratio Lower Upper

94 100

96 91.2 73.4 110.2

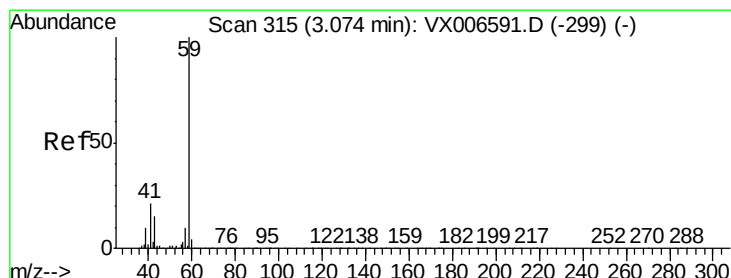
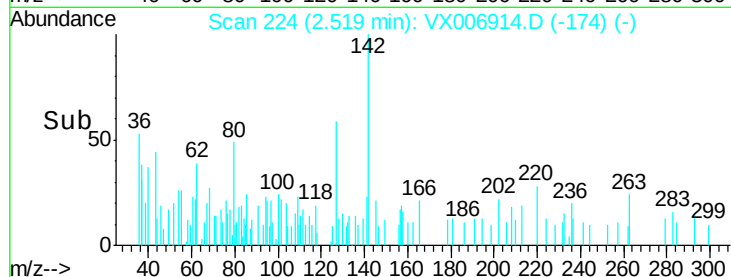
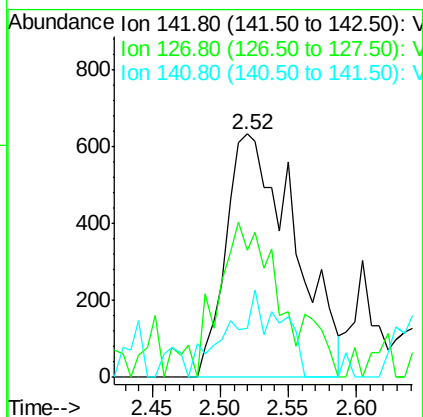
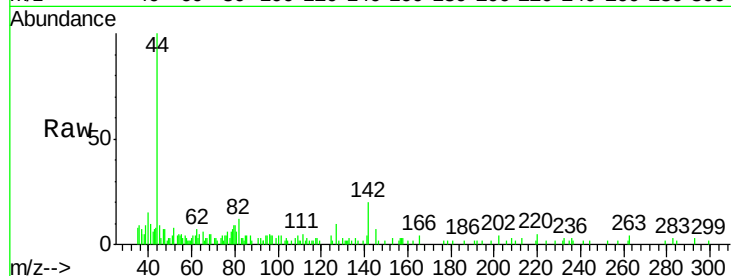




#10
Methvl Iodide
Concen: 0.254 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX006914.D
Acq: 04 Jan 2019 15:38

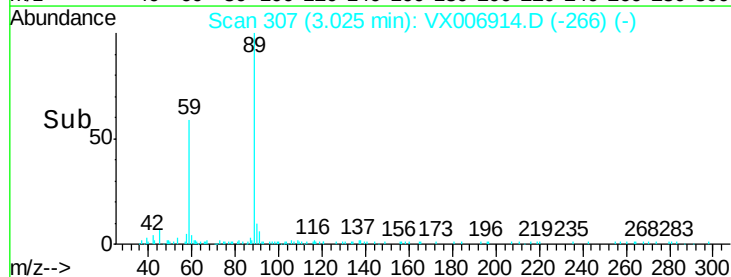
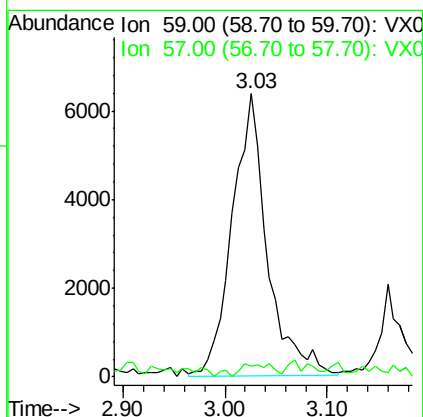
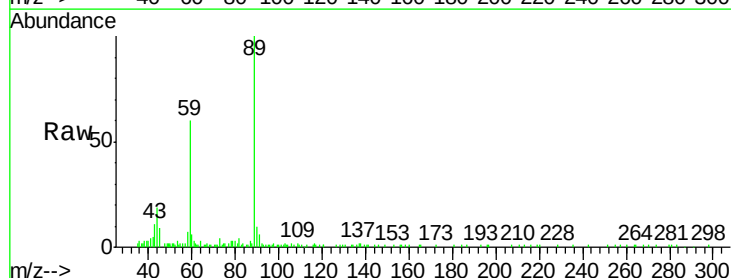
Instrument :
MSVOA_X
ClientSampled :
S32-0646DL

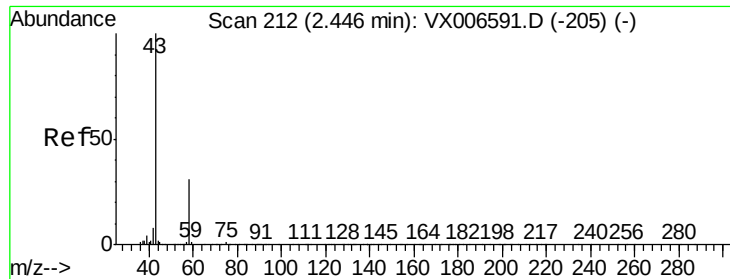
Tot Ion:142 Resp: 2210
Ion Ratio Lower Upper
142 100
127 44.0 33.9 50.9
141 27.4 11.4 17.0#



#11
Tert butyl alcohol
Concen: 9.760 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006914.D
Acq: 04 Jan 2019 15:38

Tgt Ion: 59 Resp: 15135
Ion Ratio Lower Upper
59 100
57 4.1 8.5 12.7#





#16

Acetone

Concen: 1.424 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

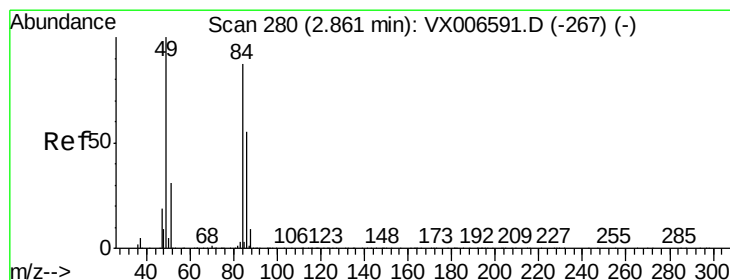
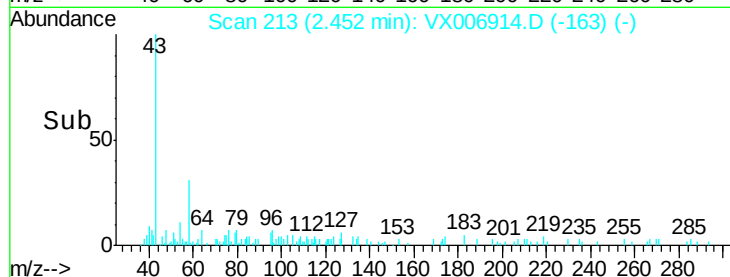
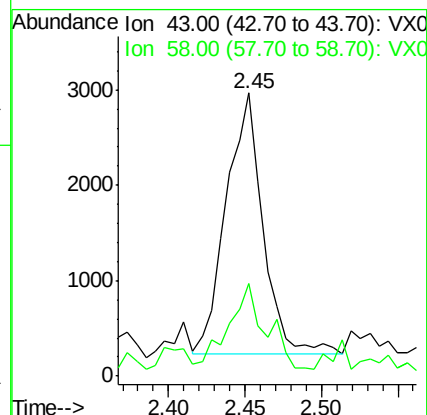
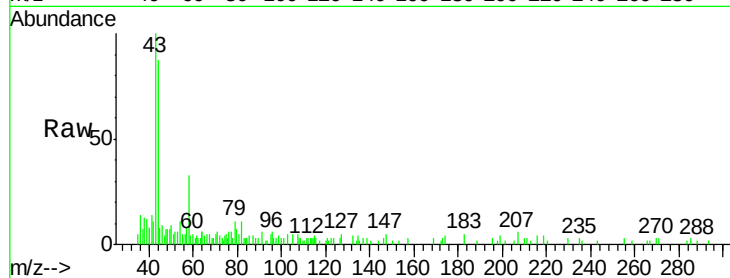
S32-0646DL

Tot Ion: 43 Resp: 4547

Ion Ratio Lower Upper

43 100

58 27.4 25.0 37.6



#20

Methylene Chloride

Concen: 0.367 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Tgt Ion: 84 Resp: 2422

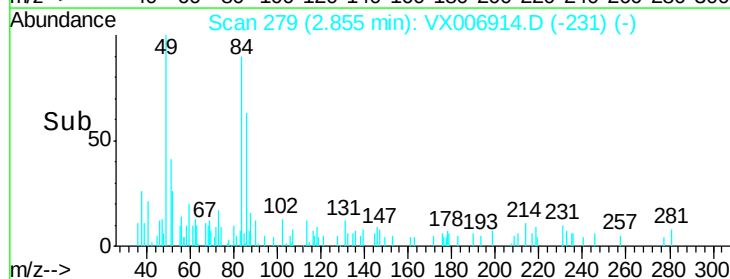
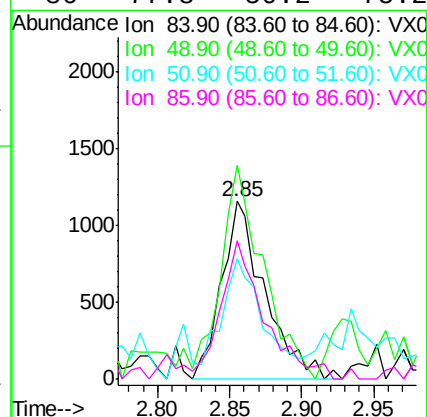
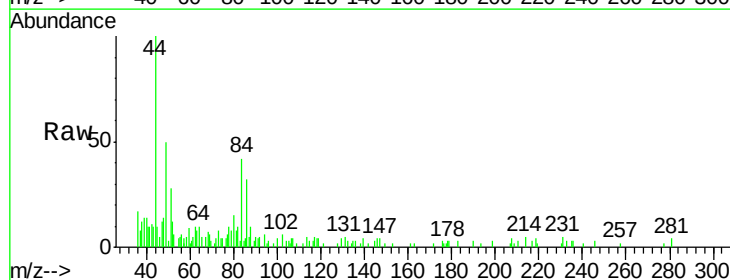
Ion Ratio Lower Upper

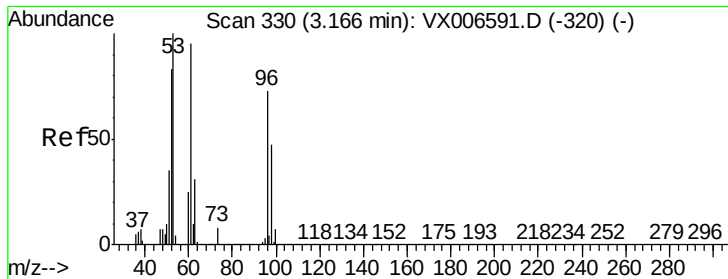
84 100

49 114.9 91.8 137.6

51 58.7 28.5 42.7#

86 77.8 50.2 75.2#





#21

trans-1,2-Dichloroethene

Concen: 8.335 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

S32-0646DL

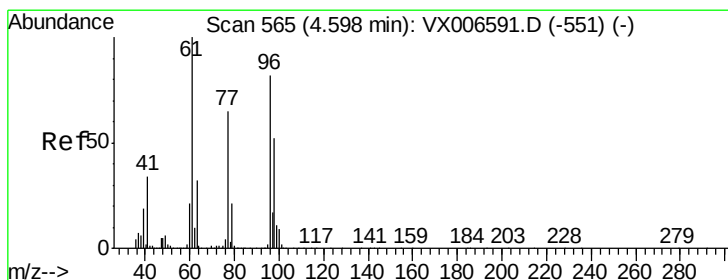
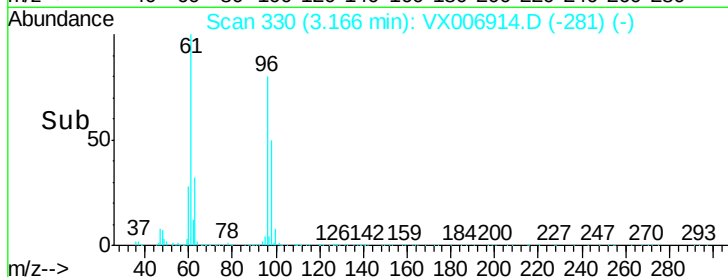
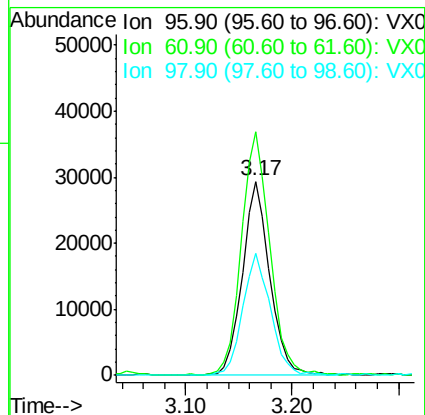
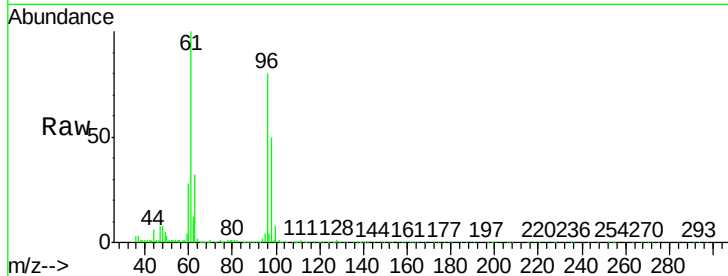
Tot Ion: 96 Resp: 53197

Ion Ratio Lower Upper

96 100

61 124.8 103.7 155.5

98 62.5 51.0 76.6



#27

cis-1,2-Dichloroethene

Concen: 47.737 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

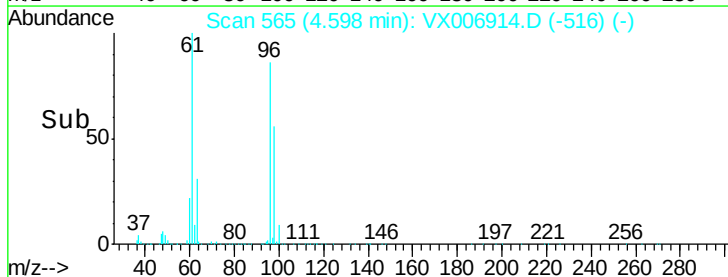
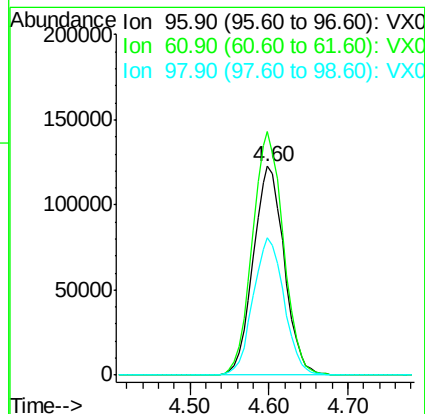
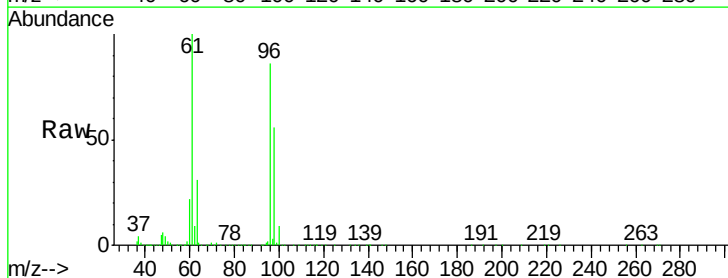
Tgt Ion: 96 Resp: 336162

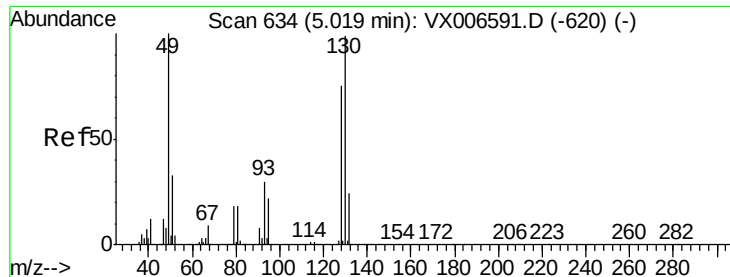
Ion Ratio Lower Upper

96 100

61 116.0 0.0 258.6

98 65.7 0.0 132.0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

S32-0646DL

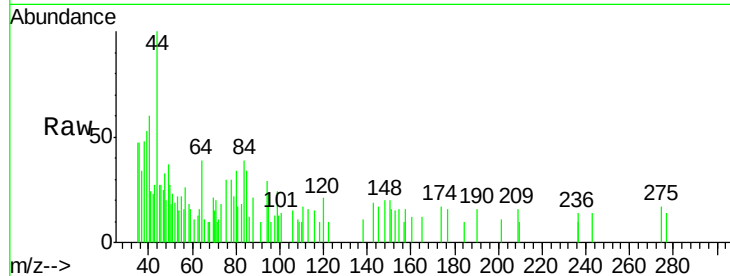
Tot Ion: 49 Resp: 421

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

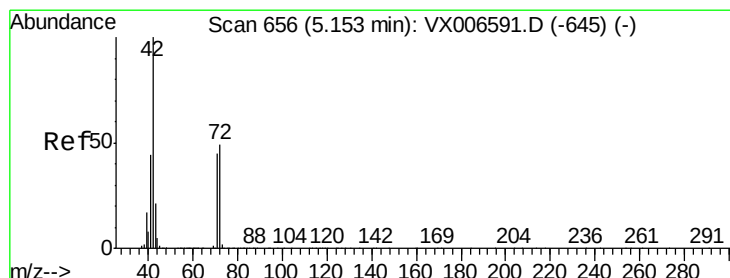
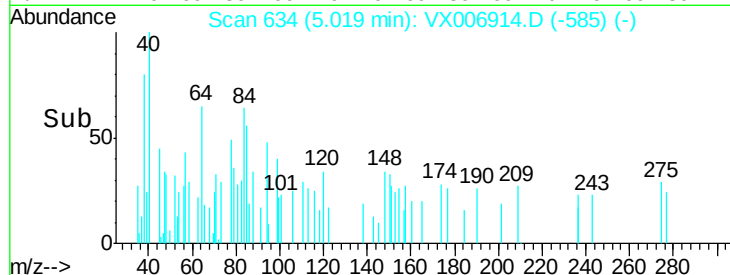
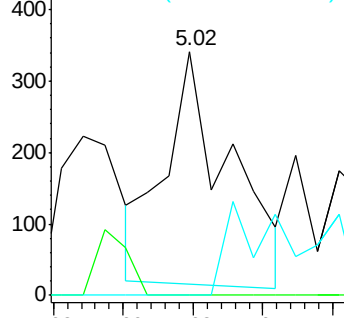
130 46.6 77.7 116.5#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.261 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

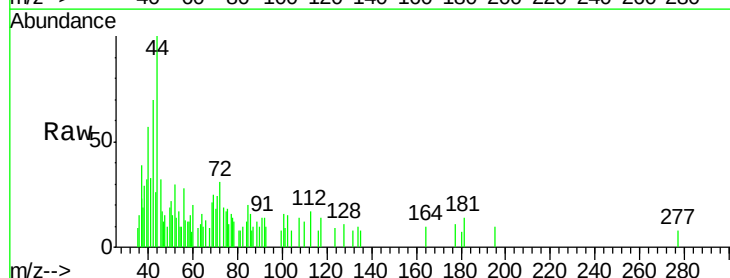
Tgt Ion: 42 Resp: 772

Ion Ratio Lower Upper

42 100

72 57.9 38.9 58.3

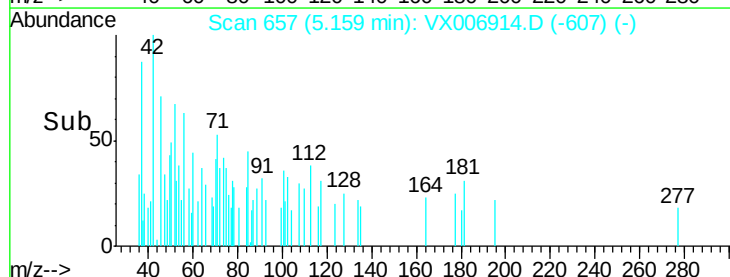
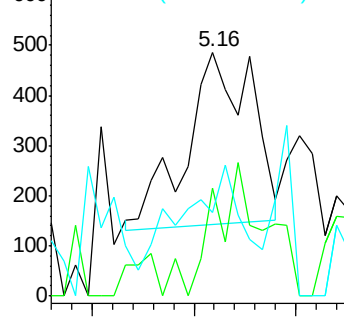
71 50.8 36.2 54.4

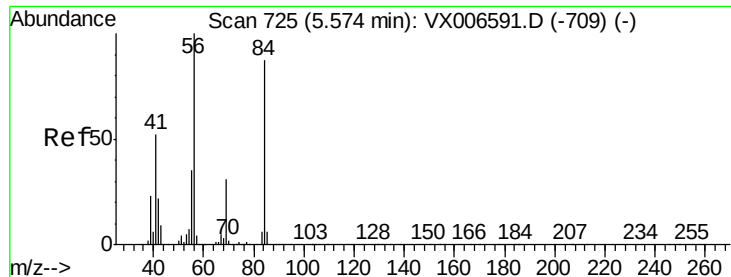


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

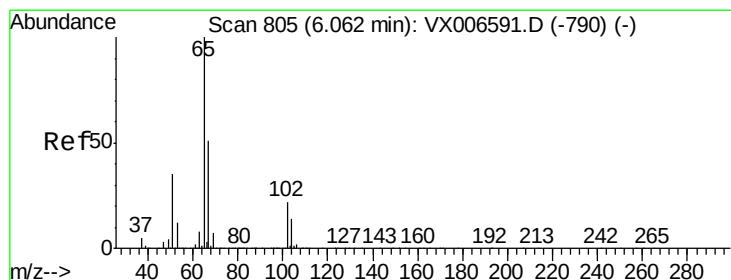
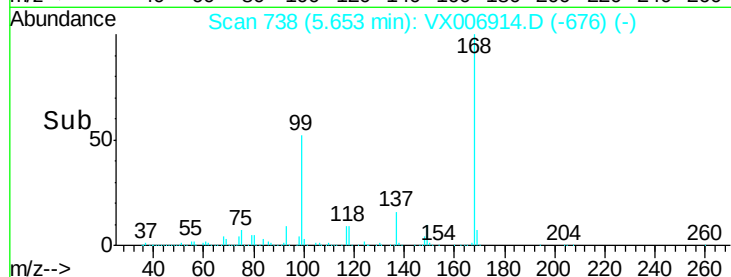
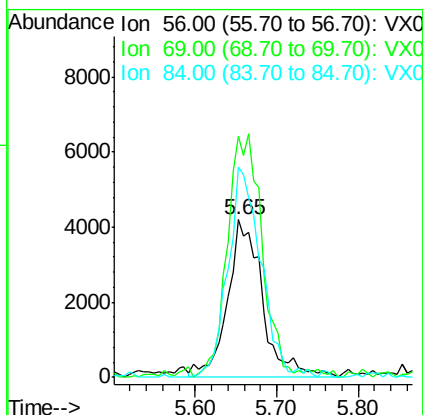
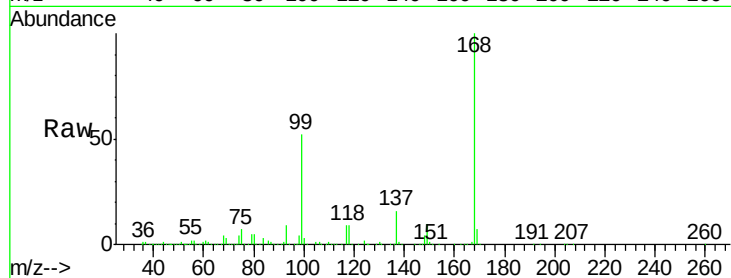




#31
Cyclohexane
Concen: 1.288 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX006914.D
Acq: 04 Jan 2019 15:38

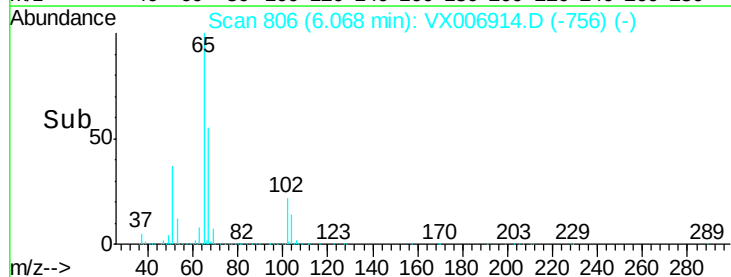
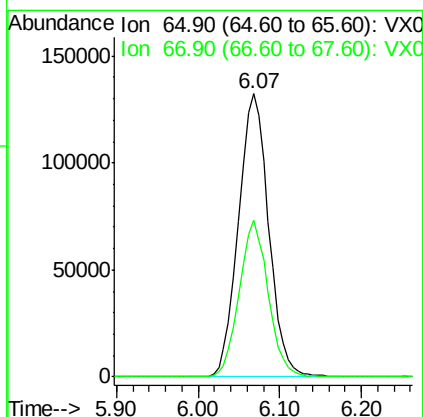
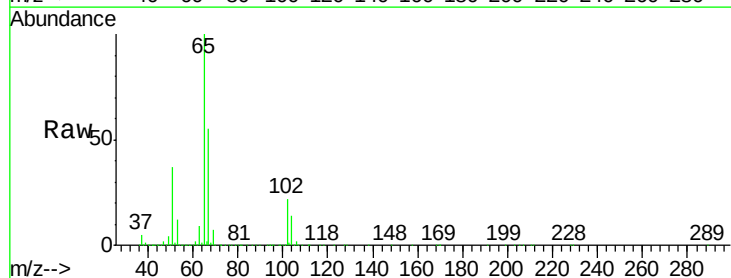
Instrument :
MSVOA_X
ClientSampled :
S32-0646DL

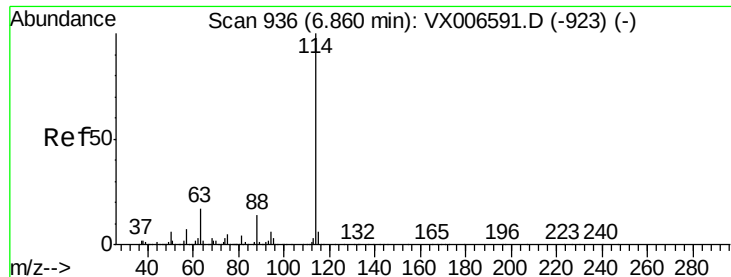
Tot Ion: 56 Resp: 12394
Ion Ratio Lower Upper
56 100
69 152.7 24.4 36.6#
84 133.4 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.924 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006914.D
Acq: 04 Jan 2019 15:38

Tgt Ion: 65 Resp: 339948
Ion Ratio Lower Upper
65 100
67 52.7 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

S32-0646DL

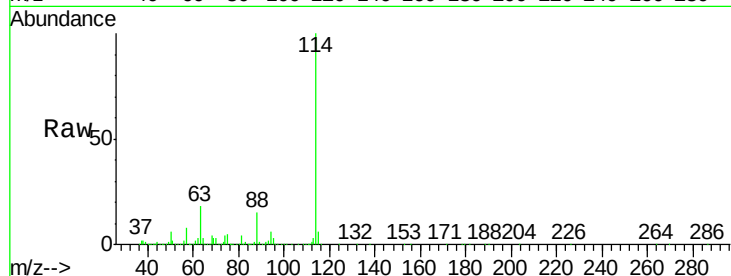
Tot Ion:114 Resp: 993573

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

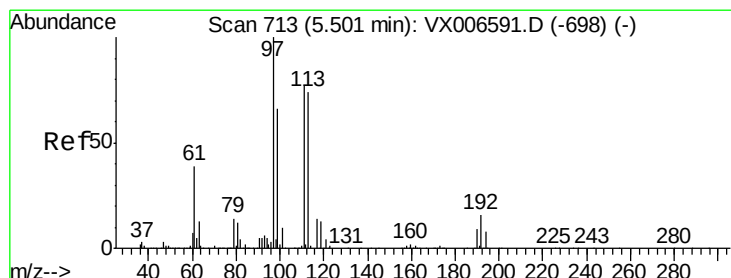
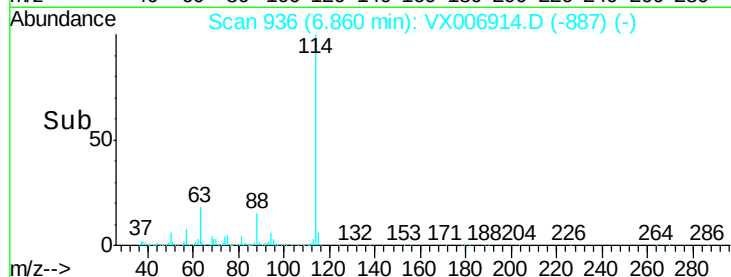
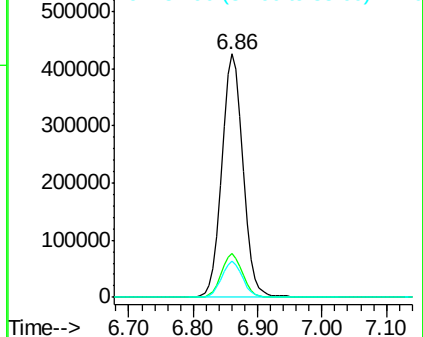
88 14.7 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.738 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

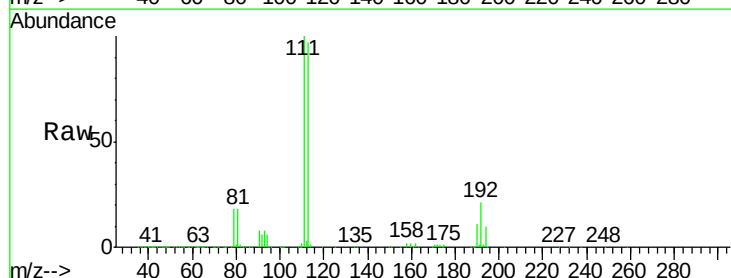
Tgt Ion:113 Resp: 306232

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

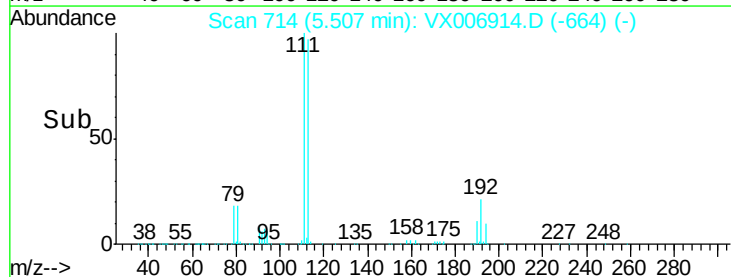
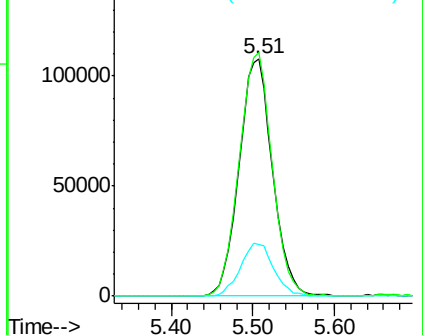
192 22.3 16.7 25.1

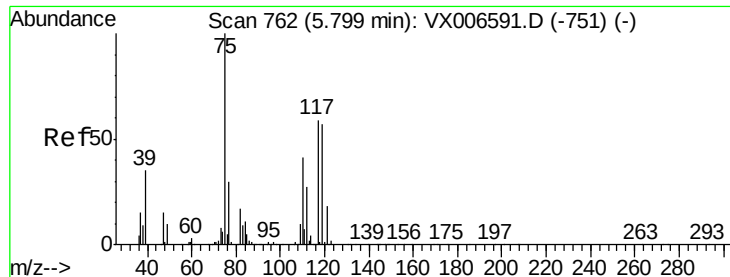


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.033 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

S32-0646DL

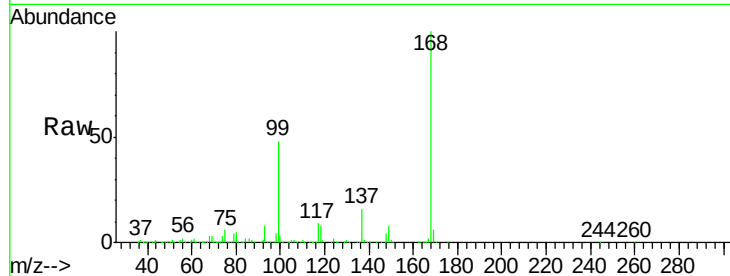
Tot Ion: 75 Resp: 41421

Ion Ratio Lower Upper

75 100

110 11.1 20.2 60.5#

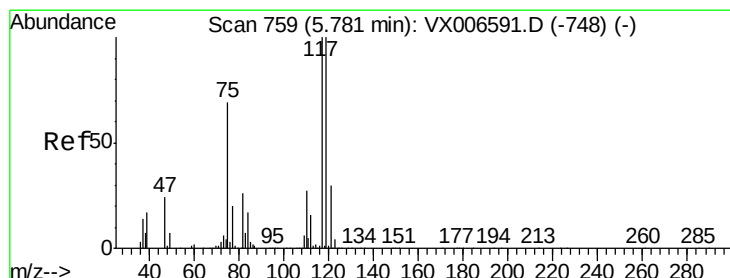
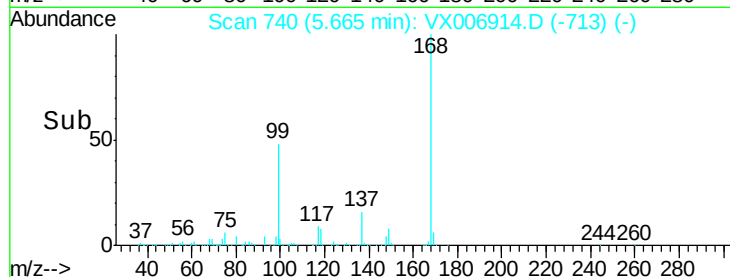
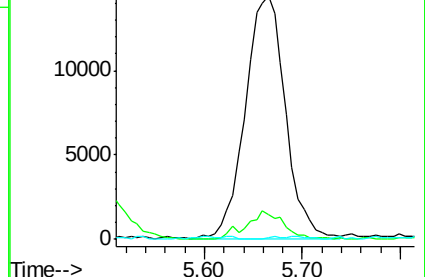
77 0.4 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX006914.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX006914.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX006914.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 7.326 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

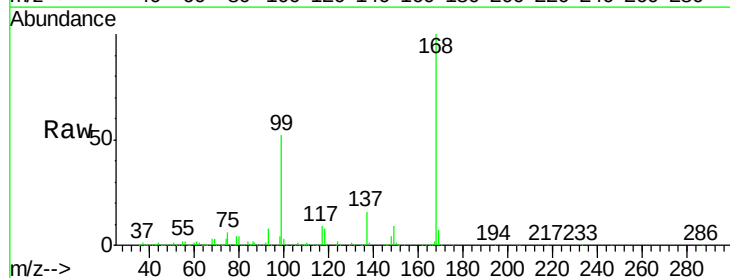
Tgt Ion: 117 Resp: 58587

Ion Ratio Lower Upper

117 100

119 5.0 79.4 119.2#

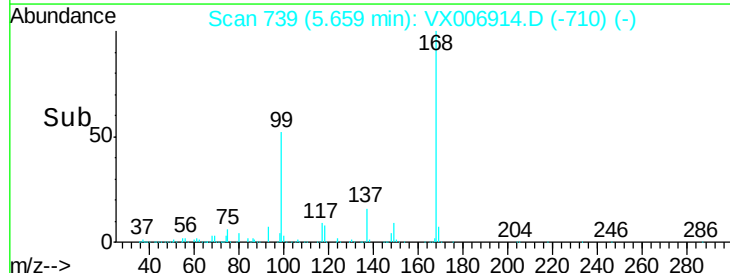
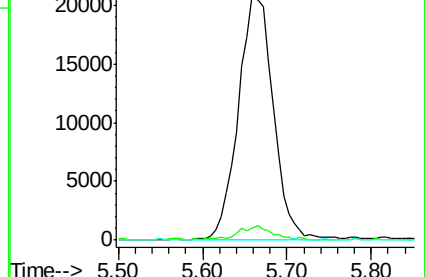
121 0.0 24.0 36.0#

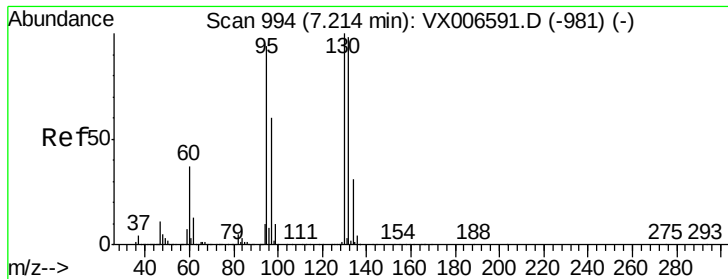


Abundance Ion 116.80 (116.50 to 117.50): VX006914.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX006914.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX006914.D (-710) (-)





#44

Trichloroethene

Concen: 1.871 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

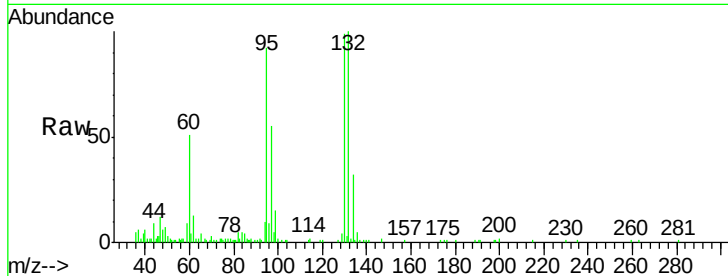
S32-0646DL

Tot Ion:130 Resp: 14166

Ion Ratio Lower Upper

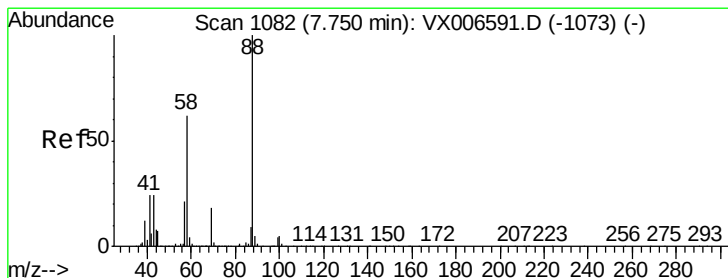
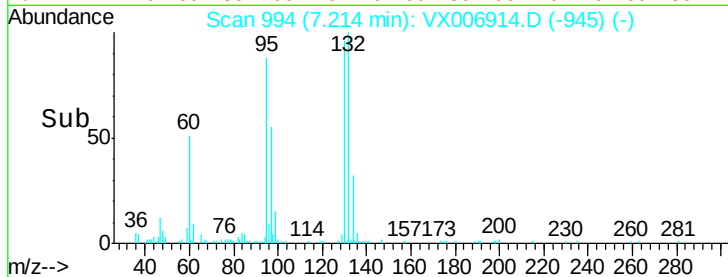
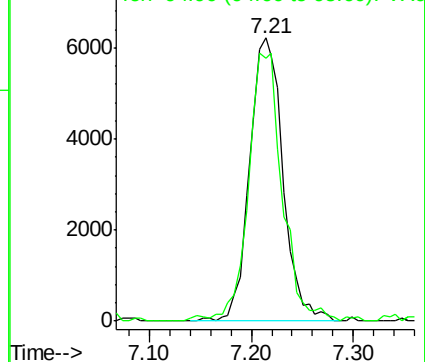
130 100

95 91.7 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

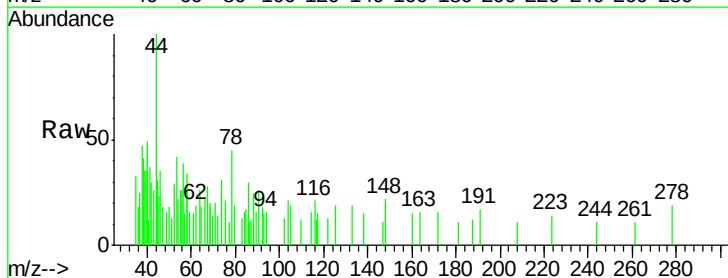
Tgt Ion: 88 Resp: 76

Ion Ratio Lower Upper

88 100

43 172.4 22.2 33.4#

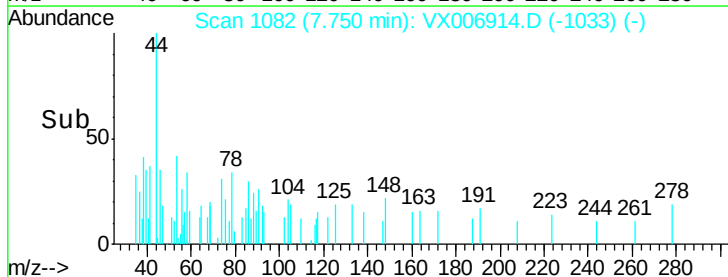
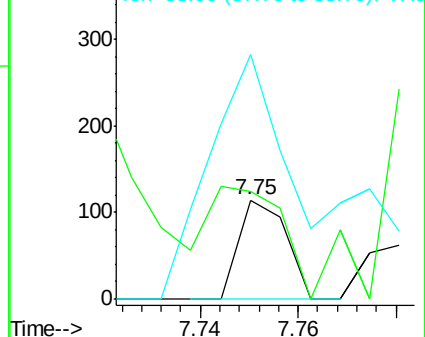
58 555.3 51.0 76.4#

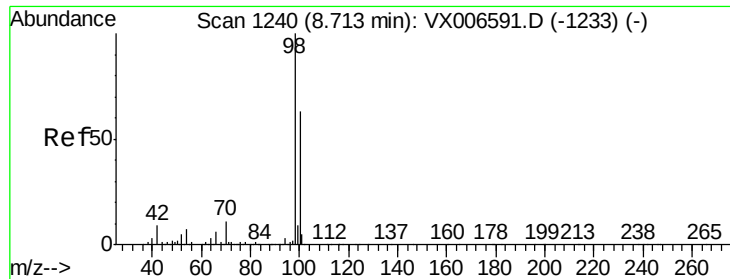


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.763 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampleId :

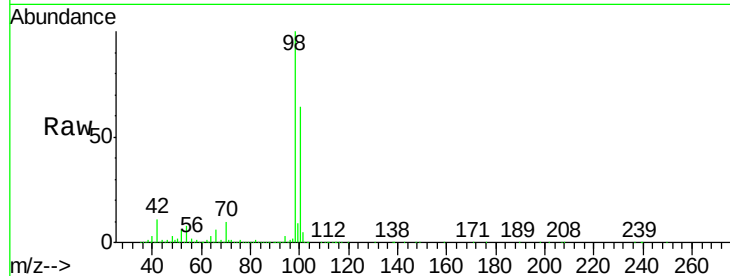
S32-0646DL

Tot Ion: 98 Resp: 1155080

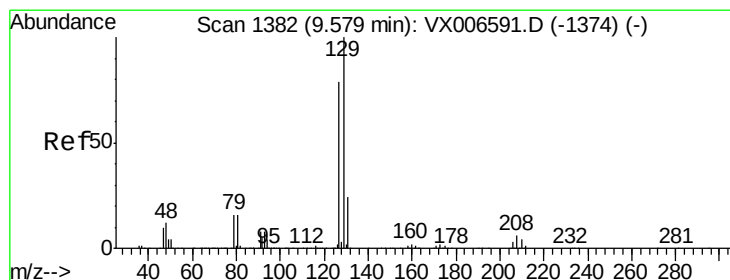
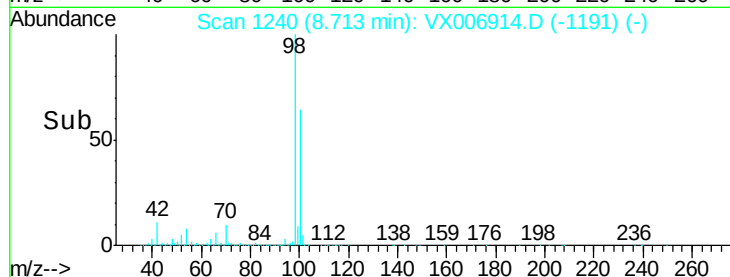
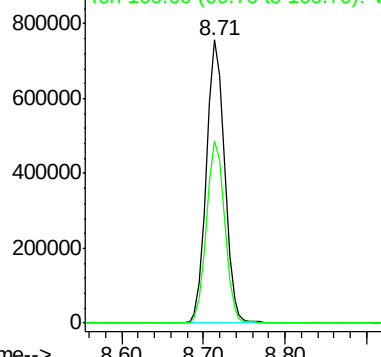
Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX006914.D (-1191) (-)



#60

Dibromochloromethane

Concen: 2.332 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. -0.08 min

Lab File: VX006914.D

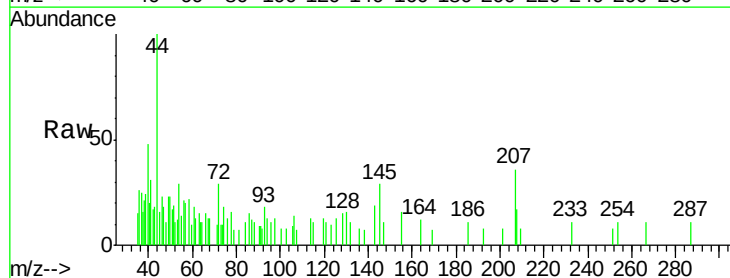
Acq: 04 Jan 2019 15:38

Tgt Ion: 129 Resp: 58

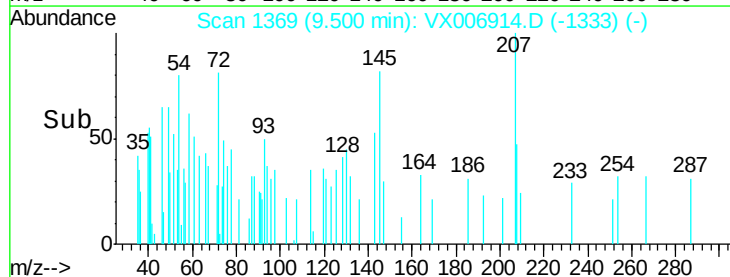
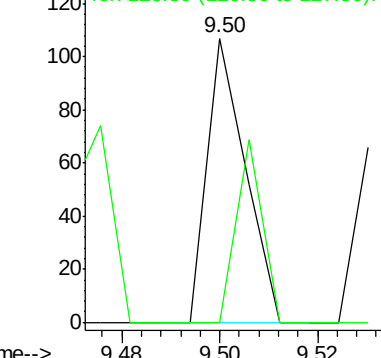
Ion Ratio Lower Upper

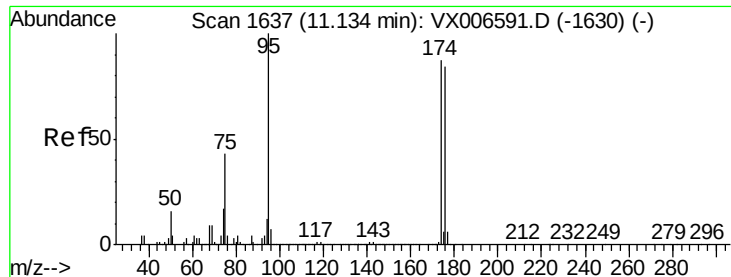
129 100

127 43.1 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): VX006914.D (-1333) (-)





#62

4-Bromofluorobenzene

Concen: 47.378 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

S32-0646DL

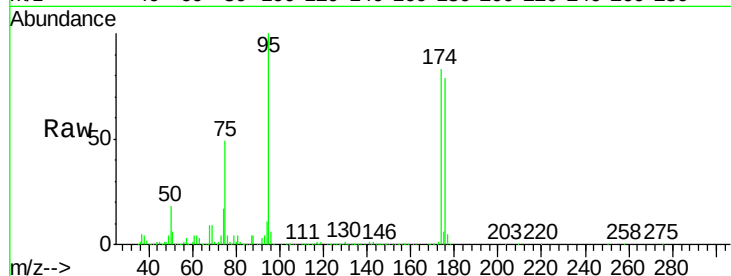
Tot Ion: 95 Resp: 411023

Ion Ratio Lower Upper

95 100

174 91.7 0.0 182.2

176 89.1 0.0 178.8

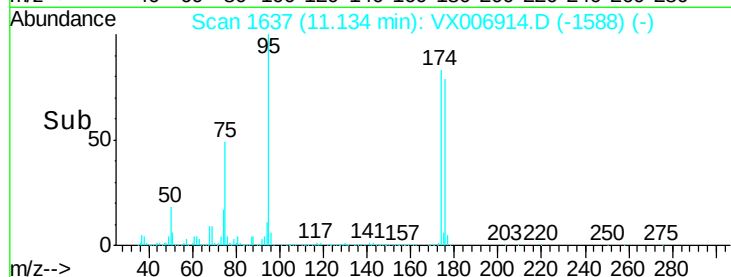


Abundance Ion 94.90 (94.60 to 95.60): VX006591.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX006591.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX006591.D (-1630) (-)

Time-->

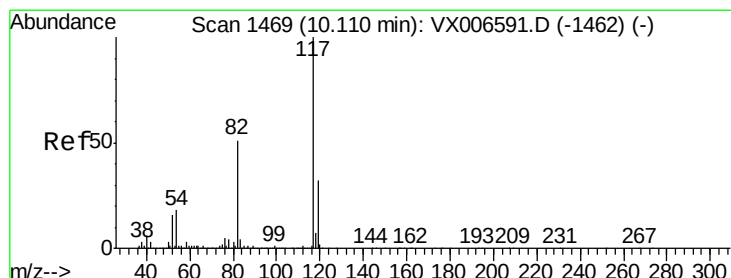


Abundance Ion 94.90 (94.60 to 95.60): VX006914.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX006914.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX006914.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

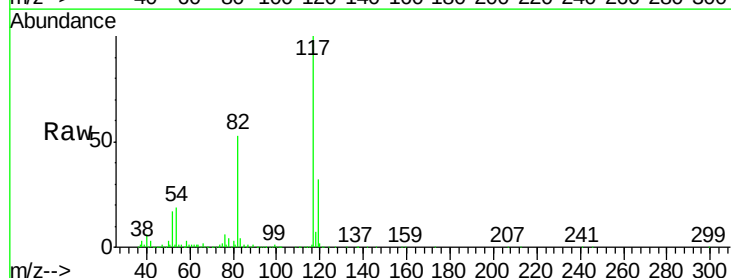
Tgt Ion: 117 Resp: 902145

Ion Ratio Lower Upper

117 100

82 52.7 41.0 61.6

119 31.8 25.4 38.0

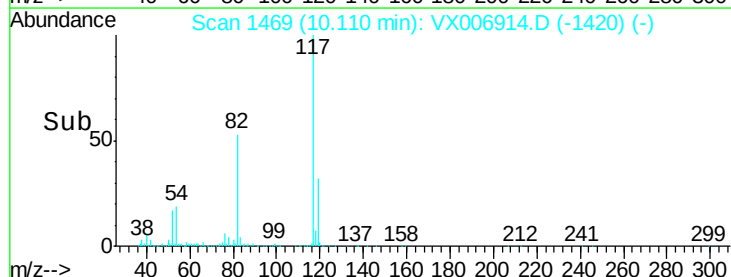


Abundance Ion 116.90 (116.60 to 117.60): VX006591.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006591.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006591.D (-1462) (-)

Time-->

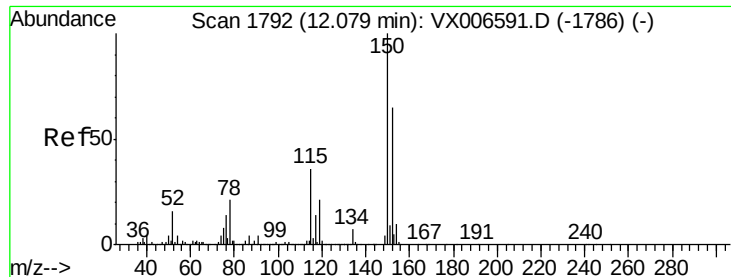


Abundance Ion 116.90 (116.60 to 117.60): VX006914.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX006914.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX006914.D (-1420) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

S32-0646DL

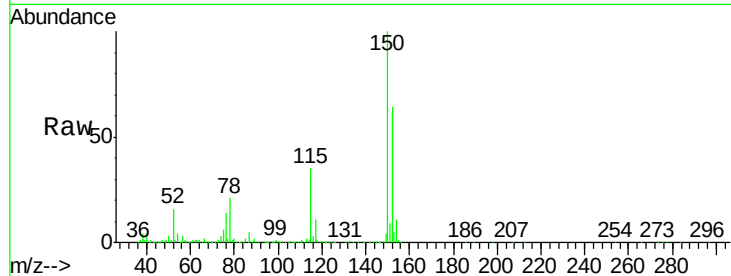
Tot Ion:152 Resp: 436451

Ion Ratio Lower Upper

152 100

115 55.1 39.1 117.2

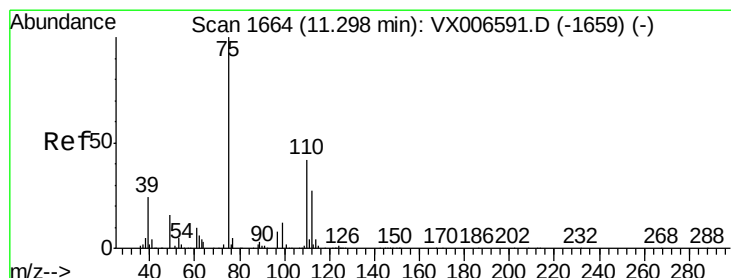
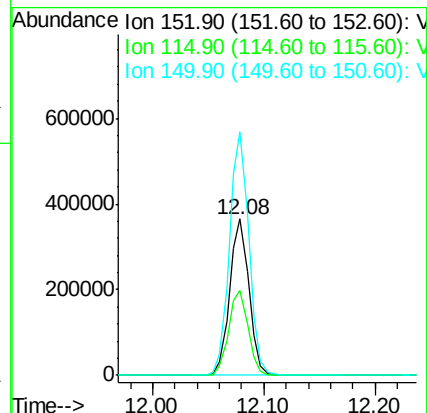
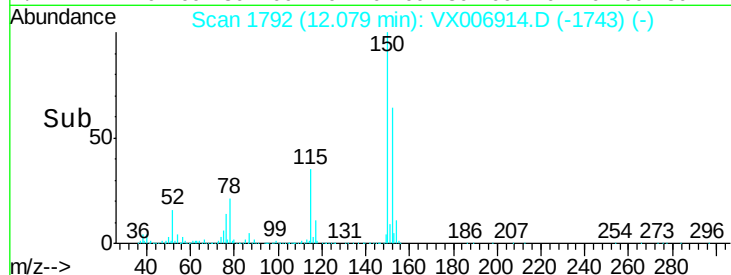
150 156.0 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.535 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006914.D

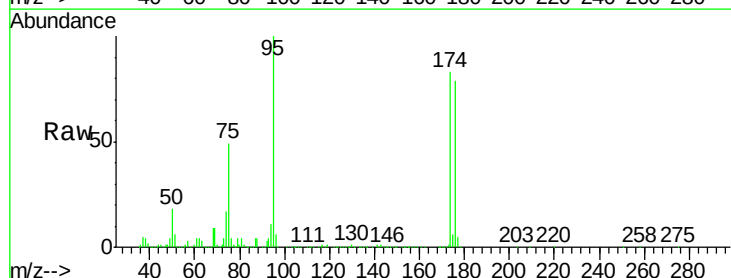
Acq: 04 Jan 2019 15:38

Tgt Ion: 75 Resp: 199003

Ion Ratio Lower Upper

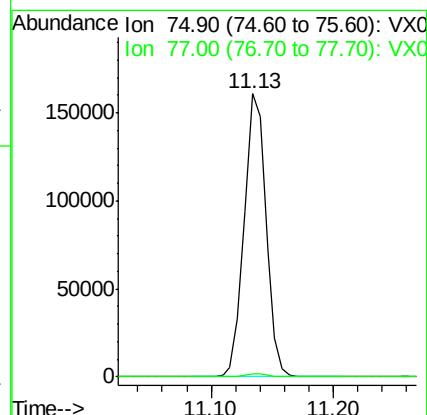
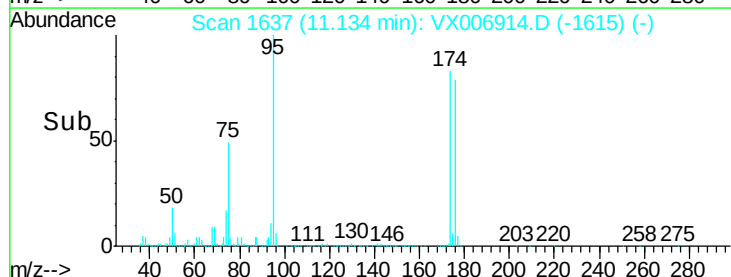
75 100

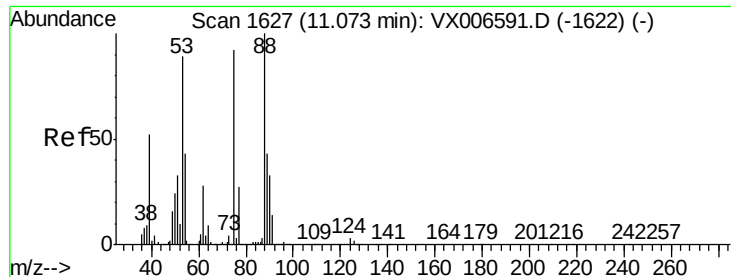
77 1.2 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 72.578 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Instrument :

MSVOA_X

ClientSampled :

S32-0646DL

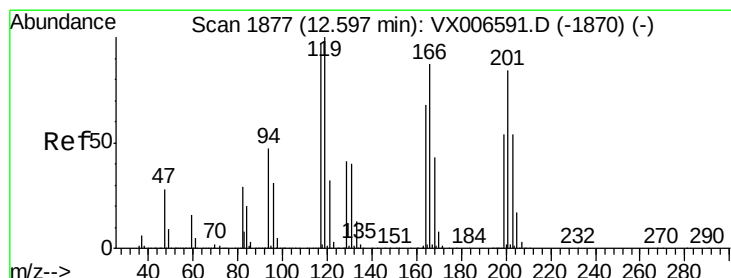
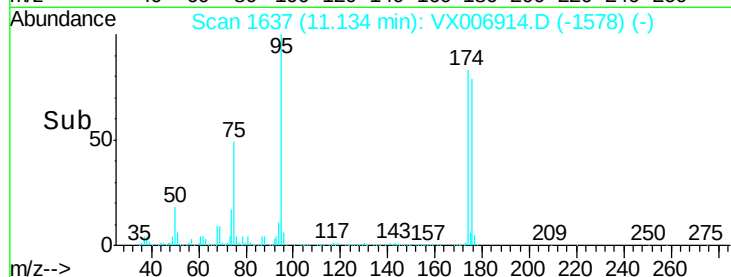
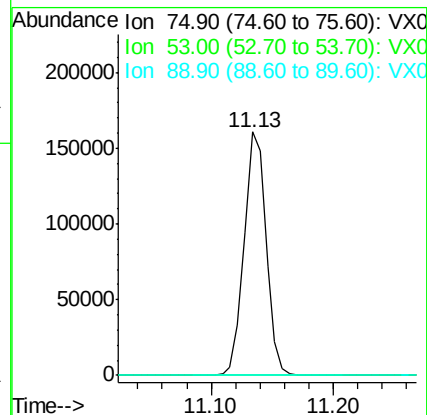
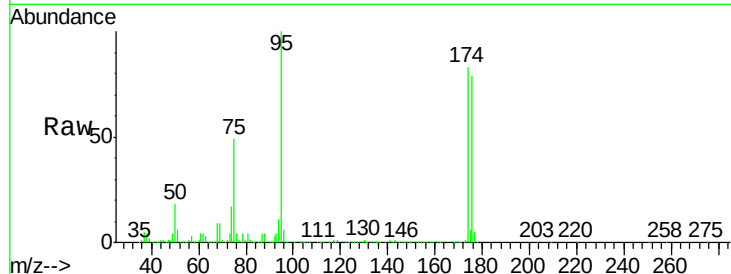
Tot Ion: 75 Resp: 199003

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#



#90

Hexachloroethane

Concen: 3.321 ug/l

RT: 12.65 min Scan# 1885

Delta R.T. 0.05 min

Lab File: VX006914.D

Acq: 04 Jan 2019 15:38

Tgt Ion: 117 Resp: 123

Ion Ratio Lower Upper

117 100

201 74.0 42.9 128.7

