

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101819\
 Data File : VX013128.D
 Acq On : 18 Oct 2019 15:34
 Operator : JC/SP
 Sample : K5414-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-1-SRI4

Quant Time: Oct 18 23:57:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	167991	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	265261	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	215885	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	80268	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	101302	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	
35) Dibromofluoromethane	5.49	113	79913	52.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.98%	
50) Toluene-d8	8.71	98	306234	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	
62) 4-Bromofluorobenzene	11.14	95	97536	42.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.54%	

Target Compounds

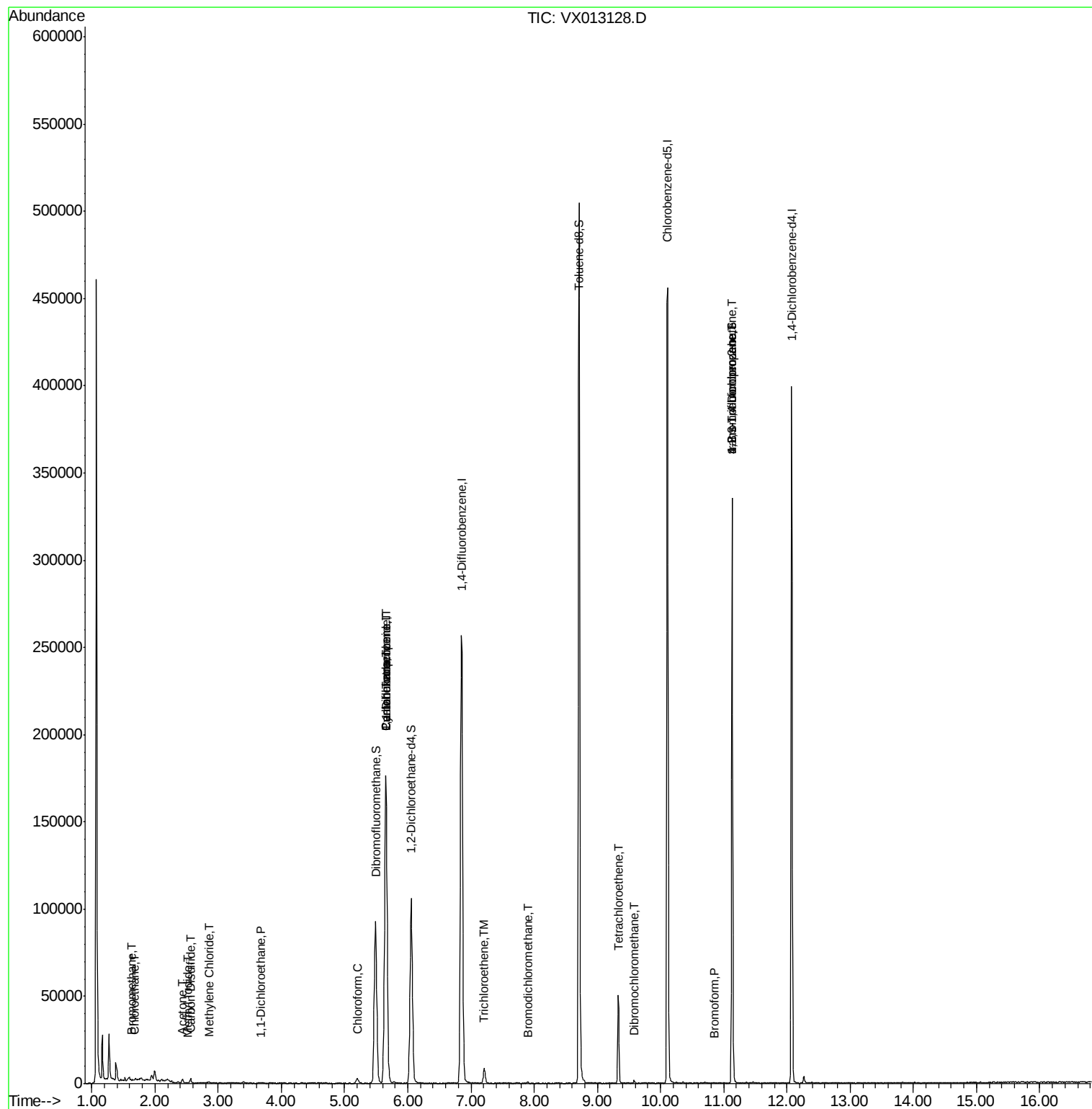
						Qvalue
5) Bromomethane	1.64	94	402	0.503	ug/l	93
6) Chloroethane	1.67	64	185	0.524	ug/l	89
10) Methyl Iodide	2.51	142	374	5.258	ug/l #	70
16) Acetone	2.44	43	2232	2.017	ug/l #	81
17) Carbon Disulfide	2.56	76	3575	0.739	ug/l	98
20) Methylene Chloride	2.85	84	488	0.240	ug/l #	83
24) 1,1-Dichloroethane	3.68	63	771	0.237	ug/l #	81
28) Bromochloromethane	5.01	49	21	Below Cal	#	13
30) Chloroform	5.20	83	3382	1.011	ug/l	86
31) Cyclohexane	5.65	56	3377	1.108	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13000	5.574	ug/l #	50
38) Carbon Tetrachloride	5.65	117	16576	7.302	ug/l #	19
44) Trichloroethene	7.21	130	3628	1.899	ug/l	98
47) Bromodichloromethane	7.90	83	742	0.325	ug/l #	90
60) Dibromochloromethane	9.58	129	570	2.140	ug/l	79
64) Tetrachloroethene	9.33	164	9515	6.354	ug/l	95
71) Bromoform	10.85	173	121	3.222	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	48679	27.343	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	48679	68.652	ug/l #	10

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

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QLast Update : Wed Oct 16 07:26:22 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

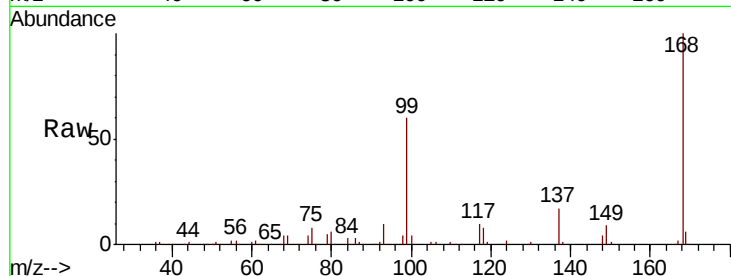
DUP-1-SRI4

Tot Ion:168 Resp: 167991

Ion Ratio Lower Upper

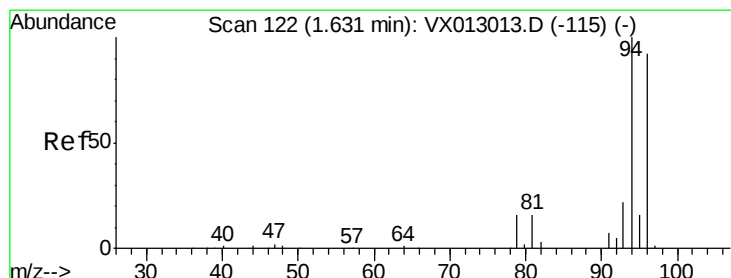
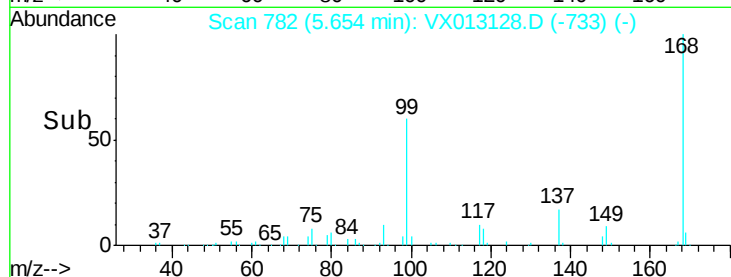
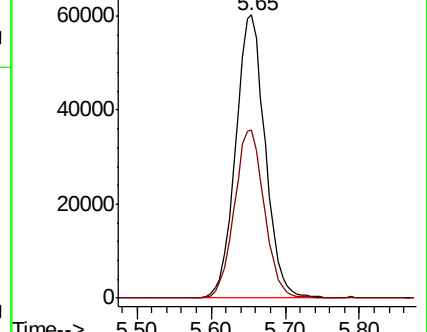
168 100

99 59.5 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.503 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013128.D

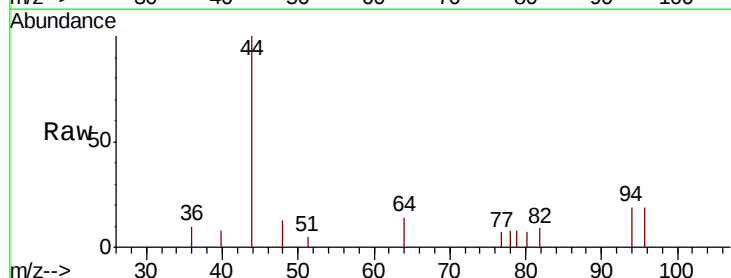
Acq: 18 Oct 2019 15:34

Tgt Ion: 94 Resp: 402

Ion Ratio Lower Upper

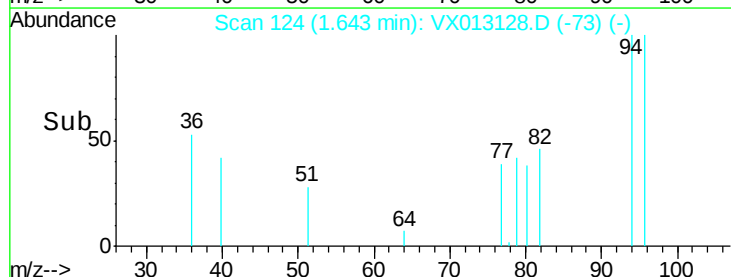
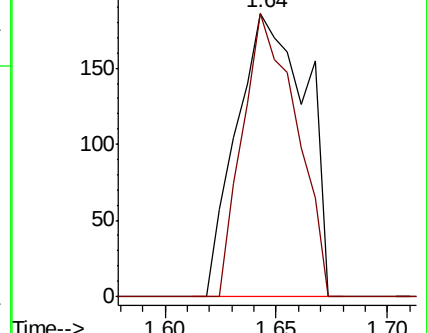
94 100

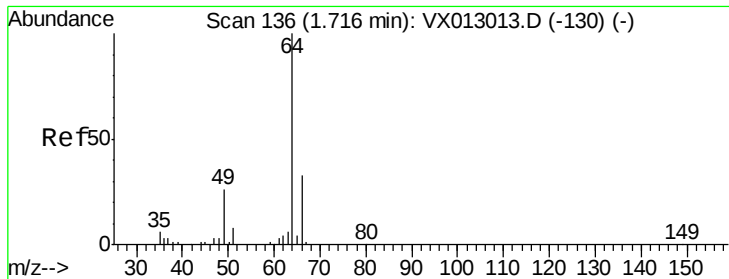
96 100.0 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.524 ug/l

RT: 1.67 min Scan# 129

Delta R.T. -0.04 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampled :

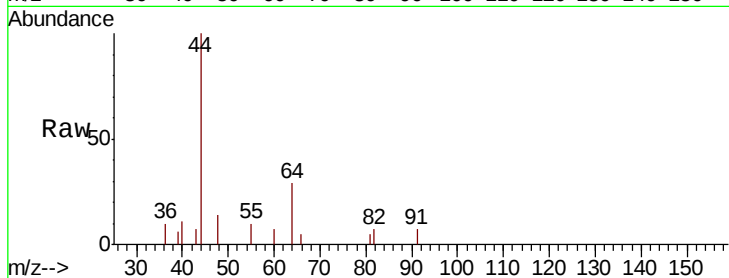
DUP-1-SRI4

Tot Ion: 64 Resp: 185

Ion Ratio Lower Upper

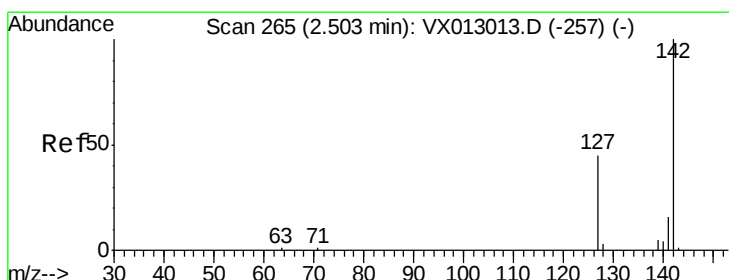
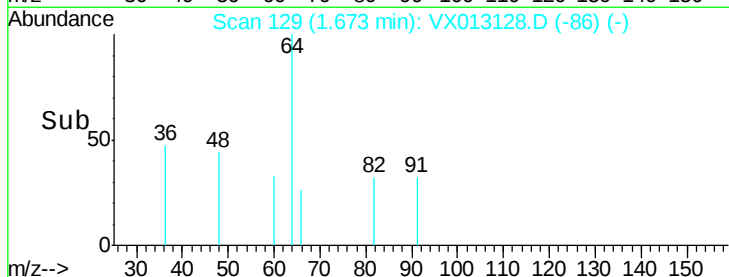
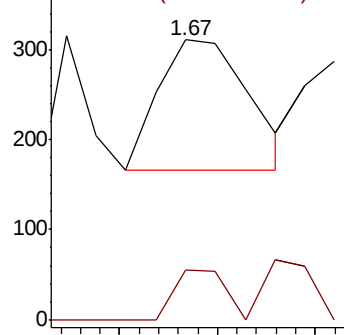
64 100

66 37.9 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.258 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

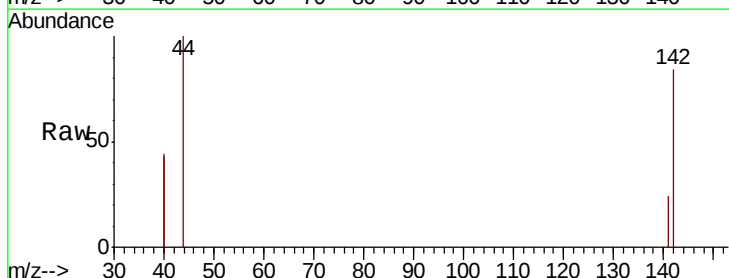
Tgt Ion: 142 Resp: 374

Ion Ratio Lower Upper

142 100

127 23.0 34.9 52.3#

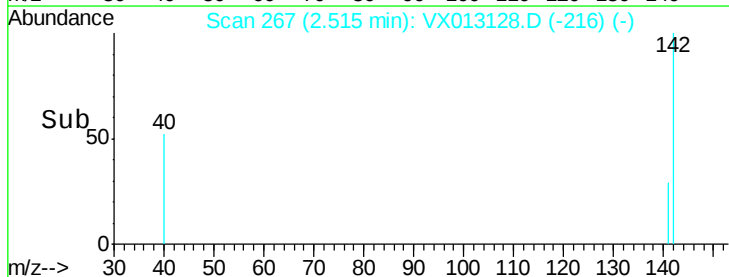
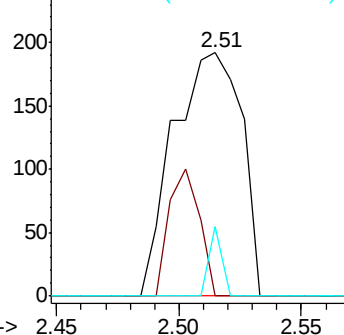
141 5.3 11.6 17.4#

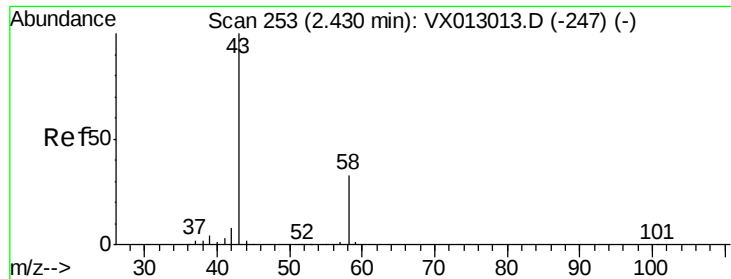


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 2.017 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampled :

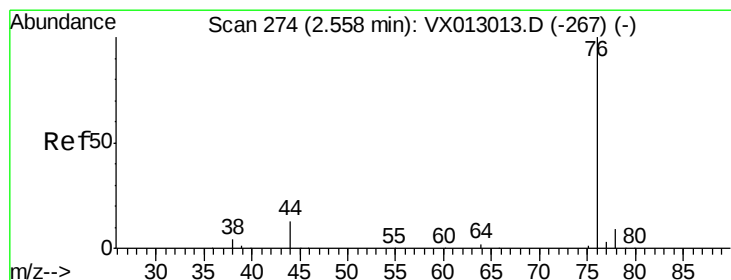
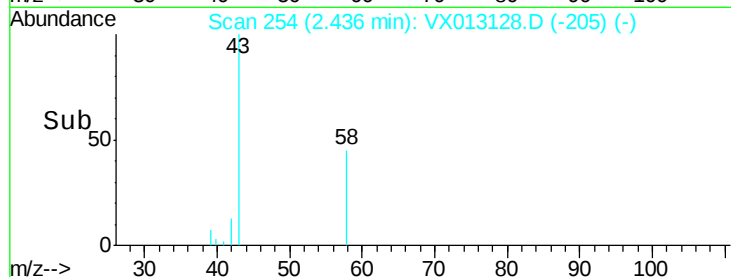
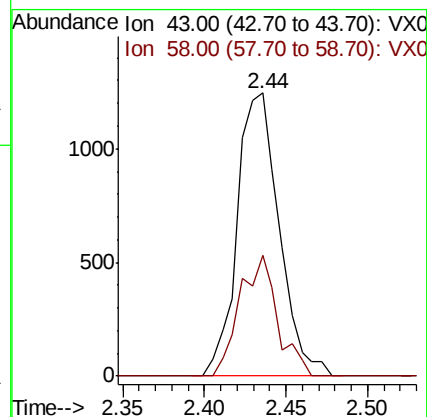
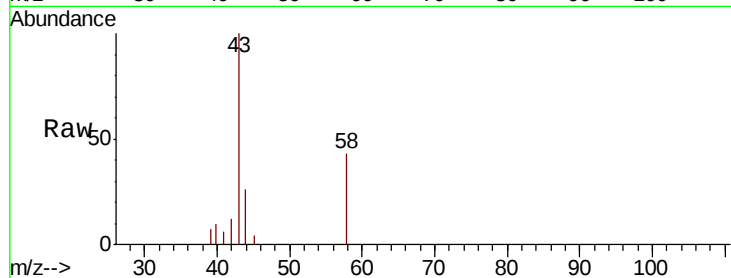
DUP-1-SRI4

Tot Ion: 43 Resp: 2232

Ion Ratio Lower Upper

43 100

58 42.6 25.4 38.2#



#17

Carbon Disulfide

Concen: 0.739 ug/l

RT: 2.56 min Scan# 275

Delta R.T. -0.00 min

Lab File: VX013128.D

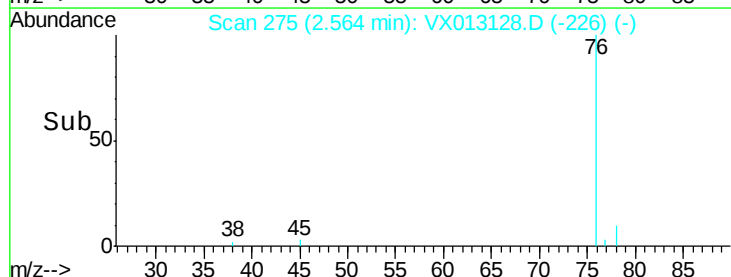
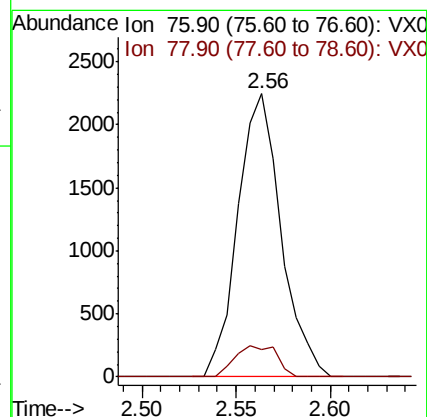
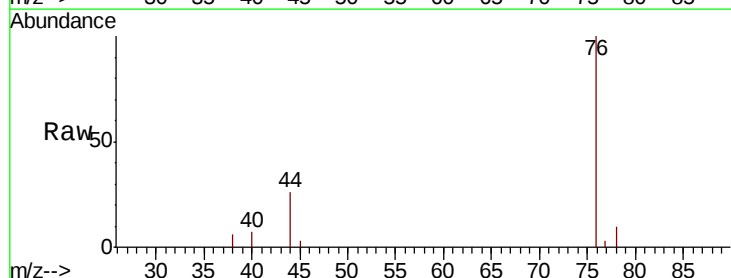
Acq: 18 Oct 2019 15:34

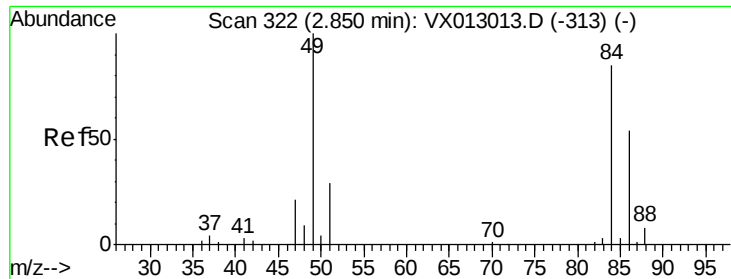
Tgt Ion: 76 Resp: 3575

Ion Ratio Lower Upper

76 100

78 9.7 7.1 10.7

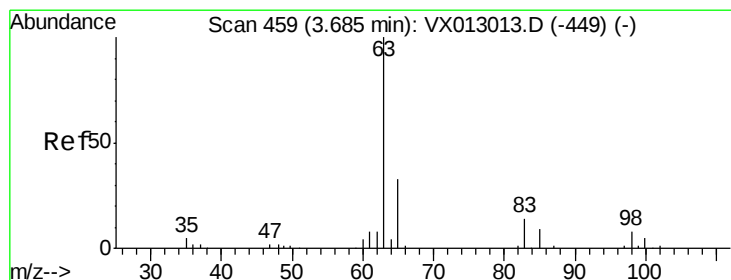
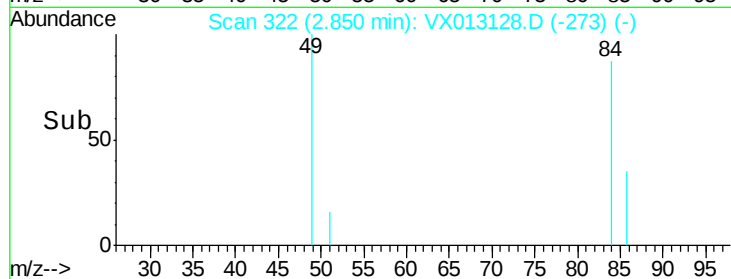
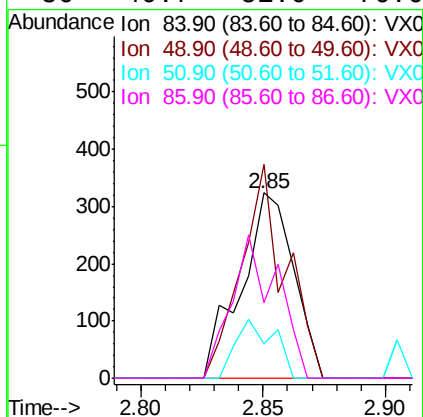
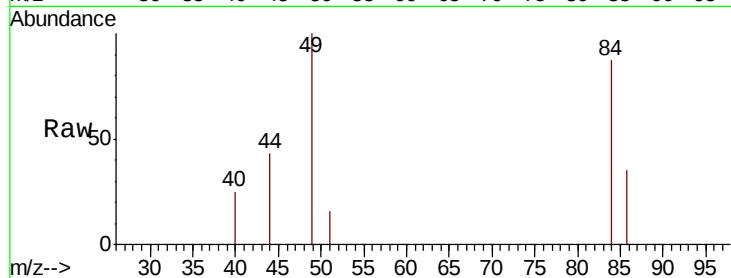




#20
Methvlene Chloride
Concen: 0.240 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013128.D
Acq: 18 Oct 2019 15:34

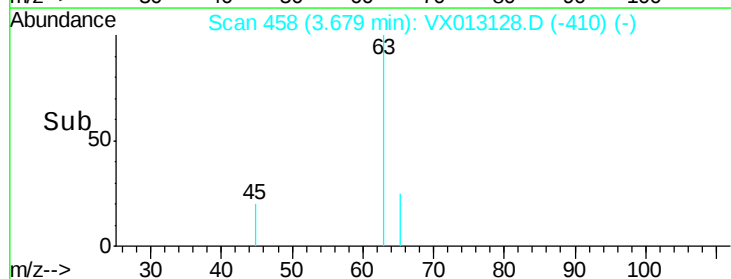
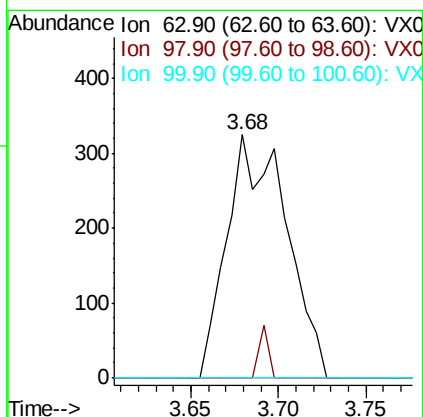
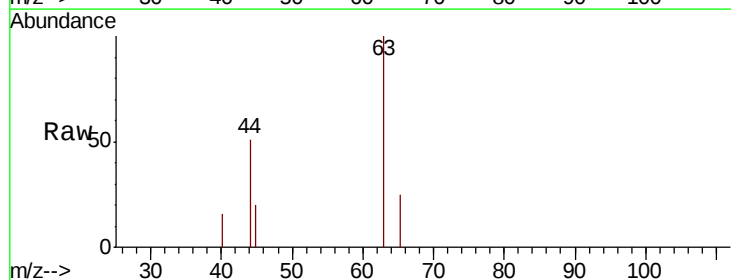
Instrument :
MSVOA_X
ClientSampled :
DUP-1-SRI4

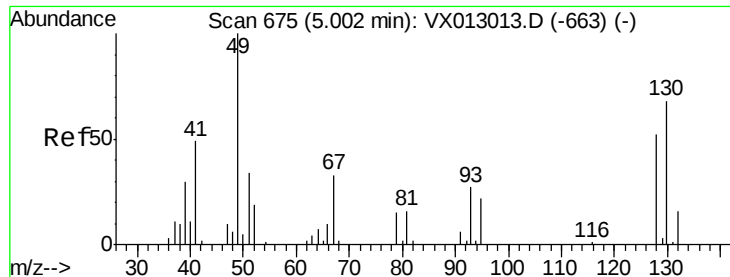
Tot Ion: 84 Resp: 488
Ion Ratio Lower Upper
84 100
49 115.1 96.6 144.8
51 18.8 30.7 46.1#
86 40.7 51.0 76.6#



#24
1,1-Dichloroethane
Concen: 0.237 ug/l
RT: 3.68 min Scan# 458
Delta R.T. -0.01 min
Lab File: VX013128.D
Acq: 18 Oct 2019 15:34

Tgt Ion: 63 Resp: 771
Ion Ratio Lower Upper
63 100
98 0.0 3.9 11.5#
100 0.0 2.3 6.9#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

DUP-1-SRI4

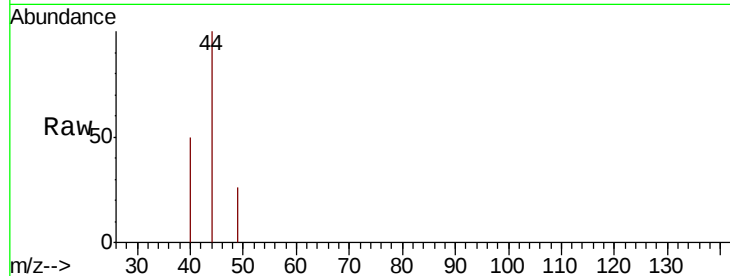
Tot Ion: 49 Resp: 21

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

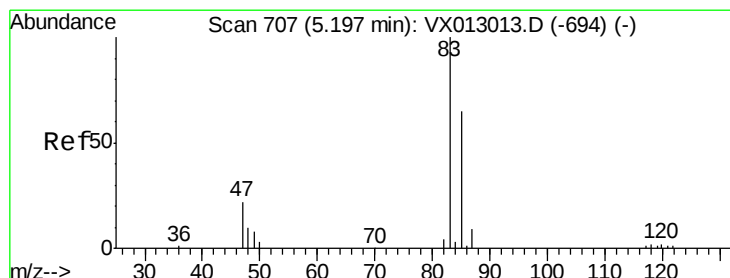
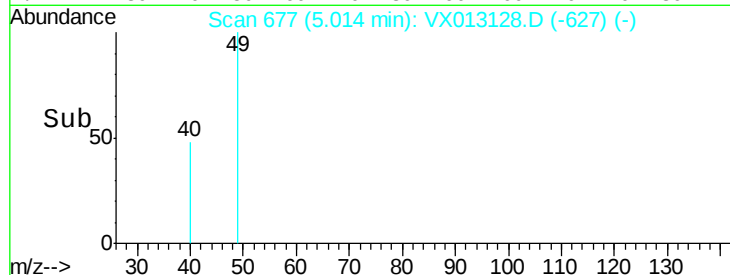
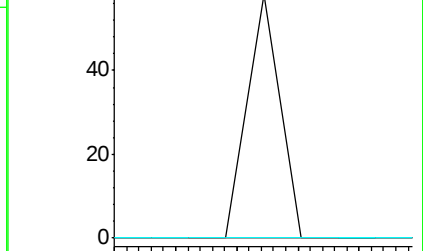
130 0.0 62.1 93.1#



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



#30

Chloroform

Concen: 1.011 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX013128.D

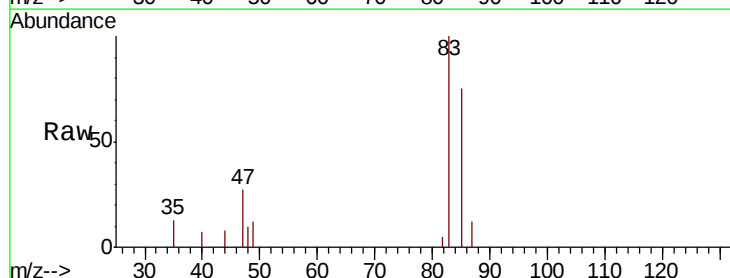
Acq: 18 Oct 2019 15:34

Tgt Ion: 83 Resp: 3382

Ion Ratio Lower Upper

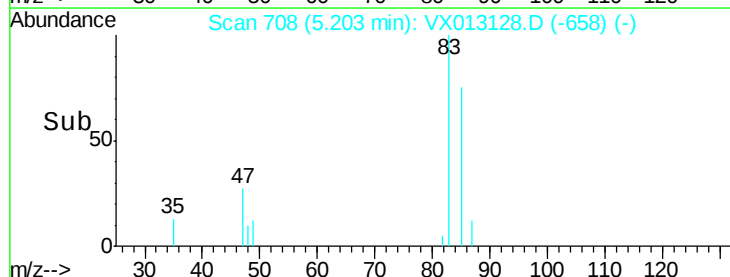
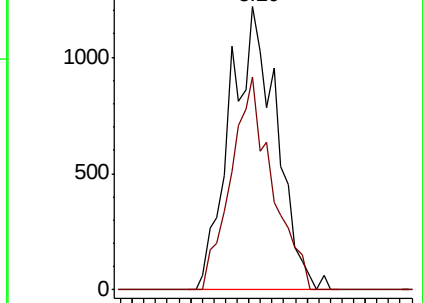
83 100

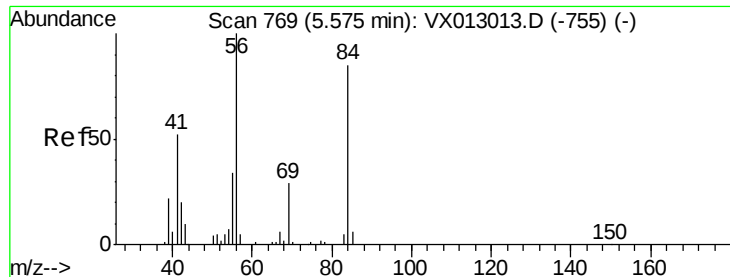
85 75.2 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

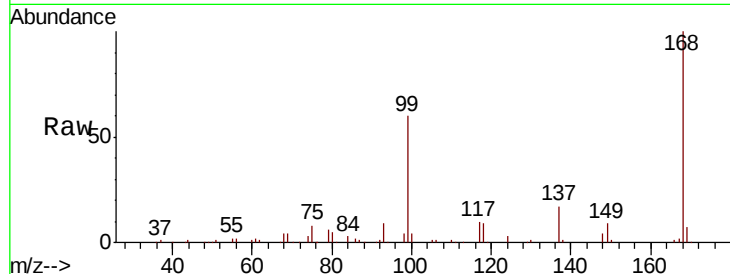




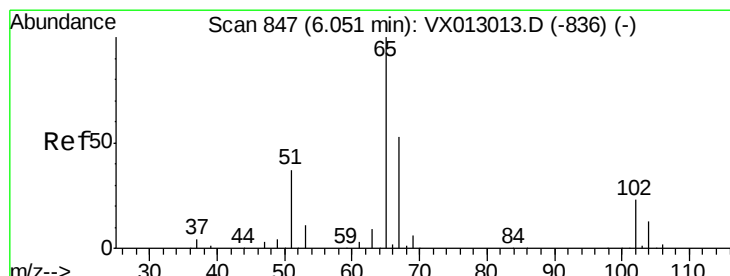
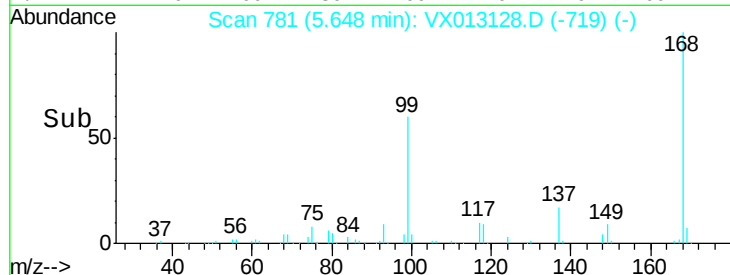
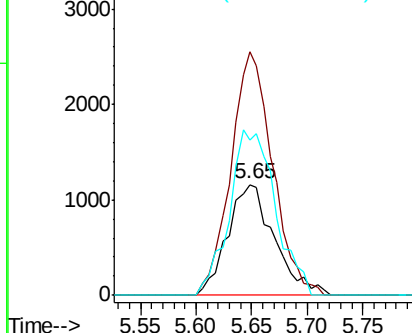
#31
Cyclohexane
Concen: 1.108 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013128.D
Acq: 18 Oct 2019 15:34

Instrument :
MSVOA_X
ClientSampleId :
DUP-1-SRI4

Tot Ion: 56 Resp: 3377
Ion Ratio Lower Upper
56 100
69 219.3 25.2 37.8#
84 139.6 71.3 106.9#

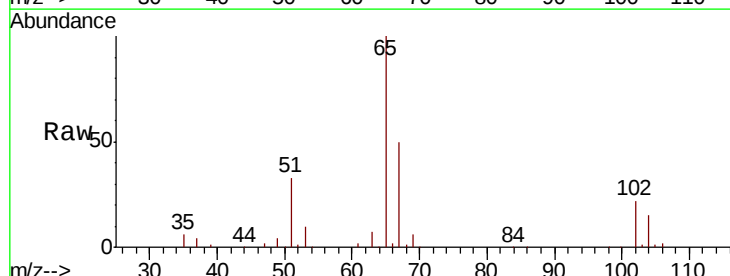


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

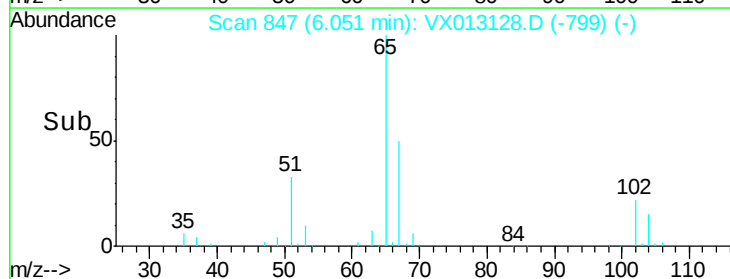
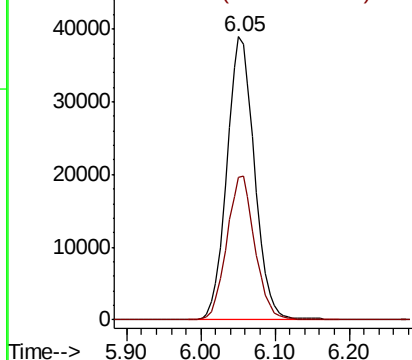


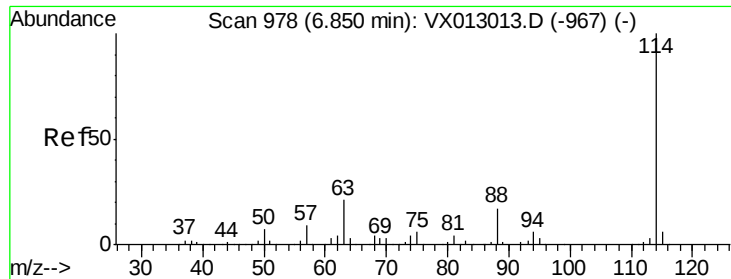
#33
1,2-Dichloroethane-d4
Concen: 48.247 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.01 min
Lab File: VX013128.D
Acq: 18 Oct 2019 15:34

Tgt Ion: 65 Resp: 101302
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

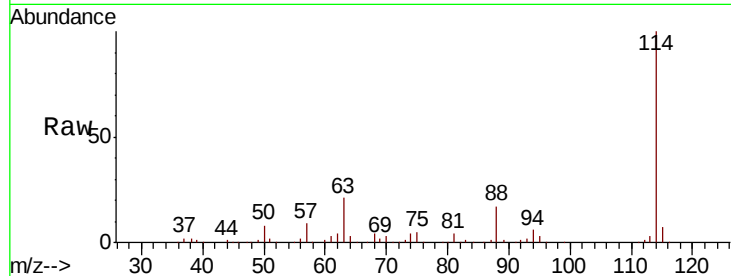




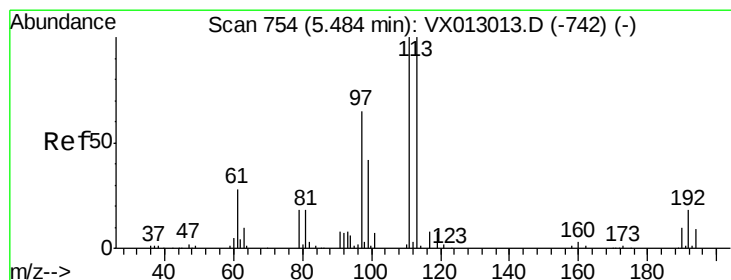
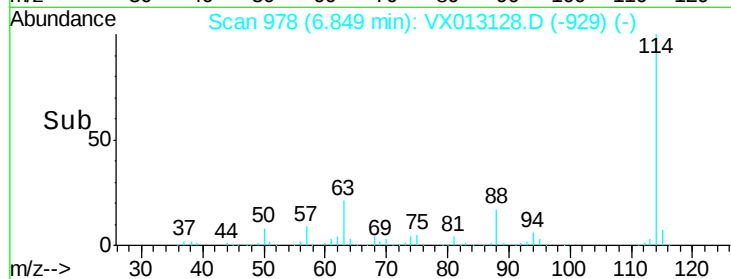
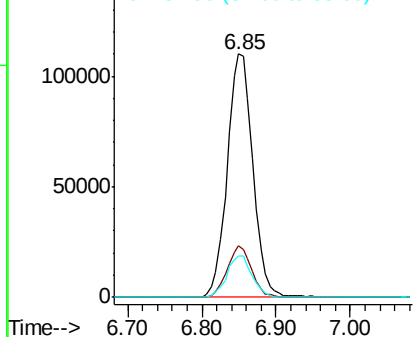
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013128.D
 Acq: 18 Oct 2019 15:34

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-1-SRI4

Tot Ion:114 Resp: 265261
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.8
 88 17.2 0.0 33.8

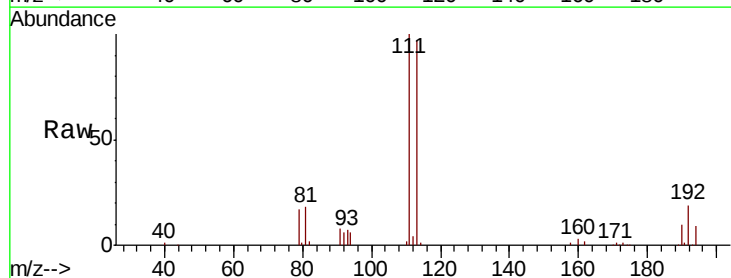


Abundance Ion 113.90 (113.60 to 114.60): V
 150000 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

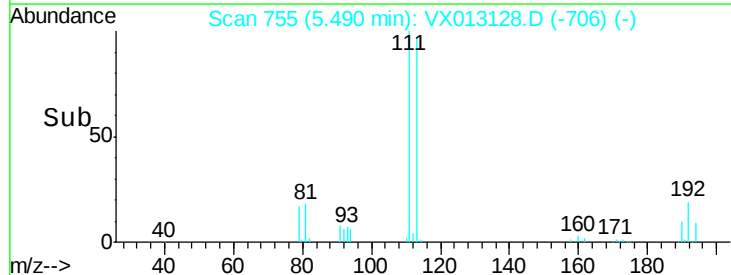
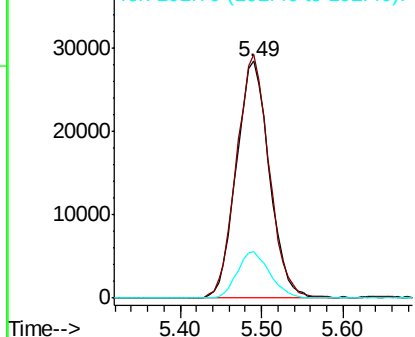


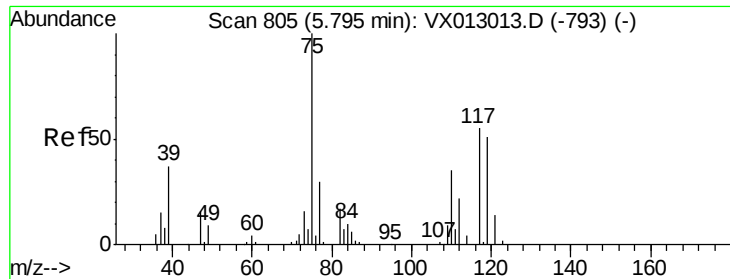
#35
 Dibromofluoromethane
 Concen: 52.489 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX013128.D
 Acq: 18 Oct 2019 15:34

Tgt Ion:113 Resp: 79913
 Ion Ratio Lower Upper
 113 100
 111 101.7 83.2 124.8
 192 19.4 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
 40000 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

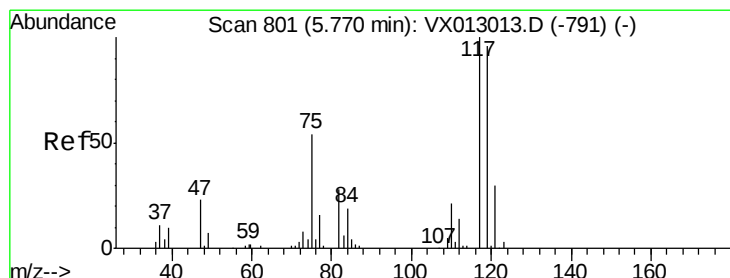
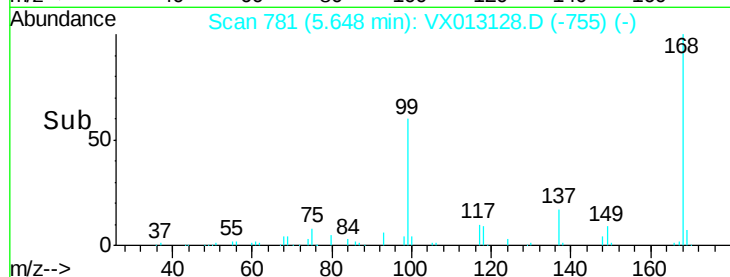
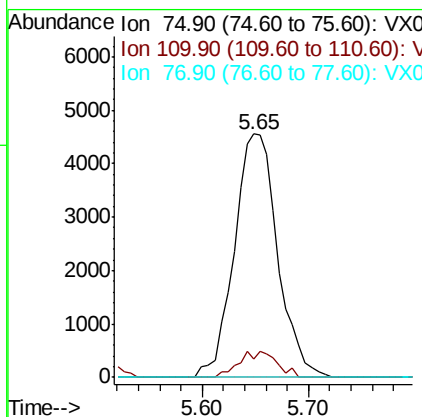
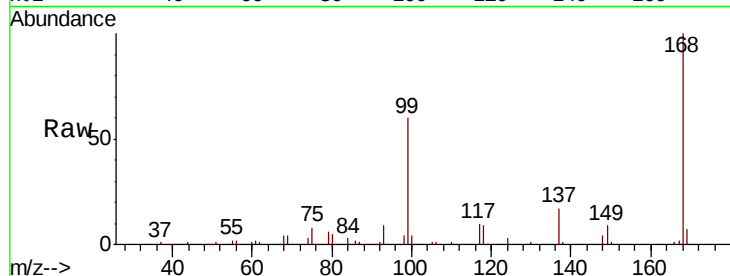




#36
 1,1-Dichloropropene
 Concen: 5.574 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013128.D
 Acq: 18 Oct 2019 15:34

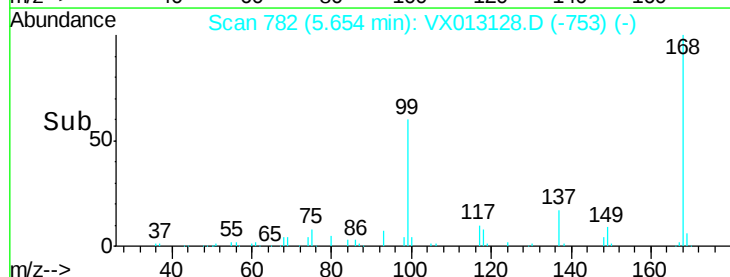
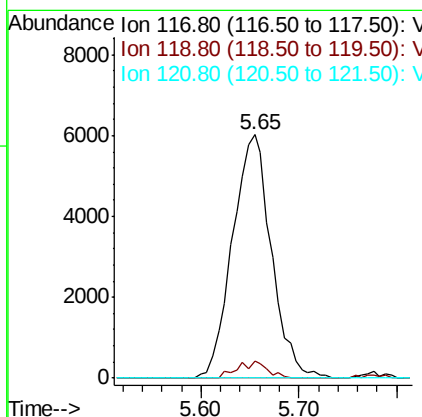
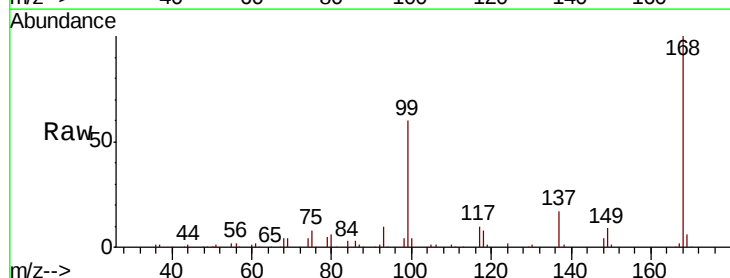
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-1-SRI4

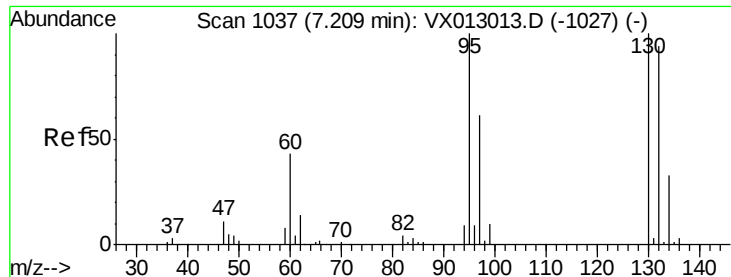
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.6	52.9#
77	0.0	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 7.302 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013128.D
 Acq: 18 Oct 2019 15:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.9	74.5	111.7#
121	0.0	24.2	36.4#





#44

Trichloroethene

Concen: 1.899 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

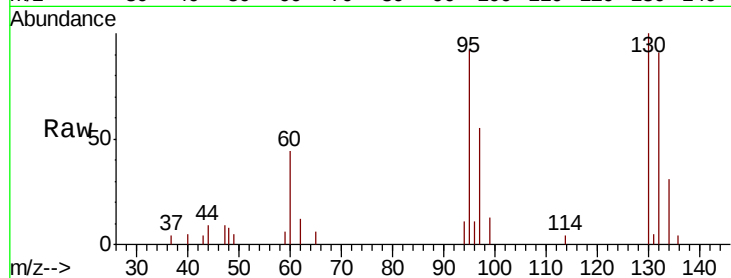
DUP-1-SRI4

Tot Ion:130 Resp: 3628

Ion Ratio Lower Upper

130 100

95 92.3 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

2000 Ion 94.90 (94.60 to 95.60): VX0

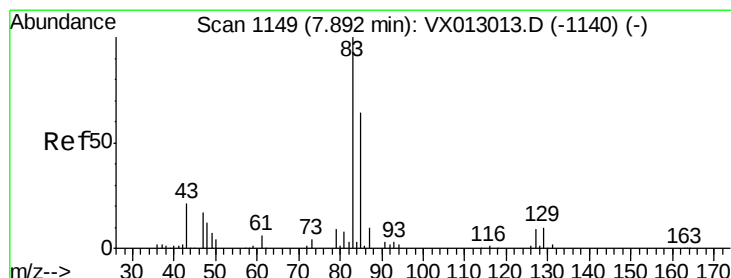
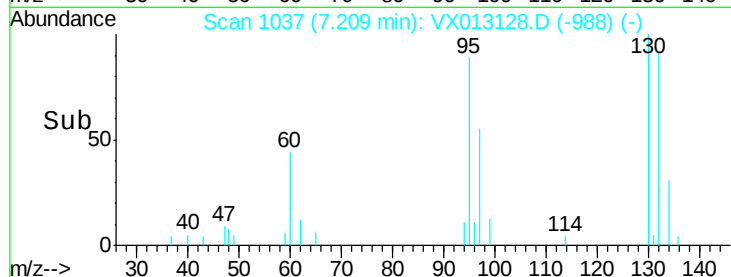
1500

1000

500

0

Time--> 7.10 7.15 7.20 7.25 7.30



#47

Bromodichloromethane

Concen: 0.325 ug/l

RT: 7.90 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

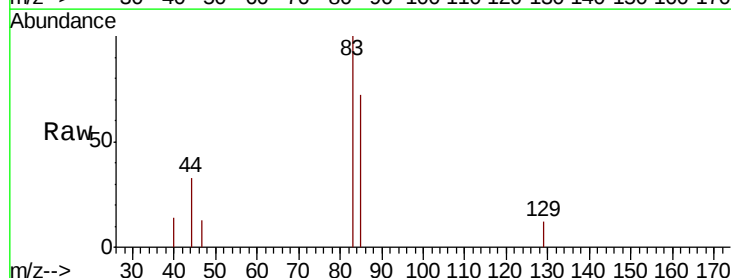
Tgt Ion: 83 Resp: 742

Ion Ratio Lower Upper

83 100

85 72.4 52.4 78.6

127 0.0 6.6 10.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

600

500

400

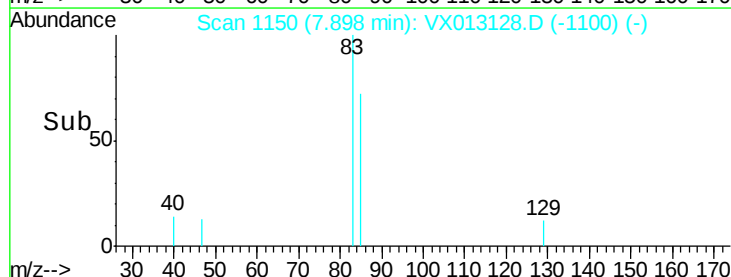
300

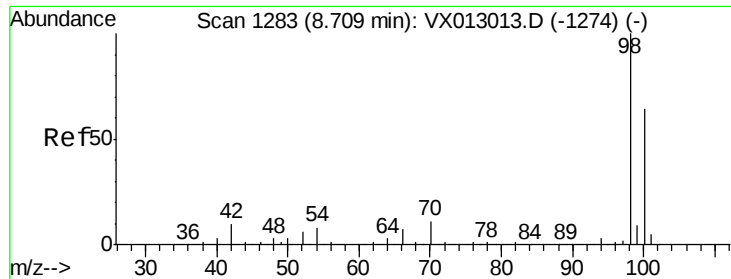
200

100

0

Time--> 7.85 7.90 7.95





#50

Toluene-d8

Concen: 51.572 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

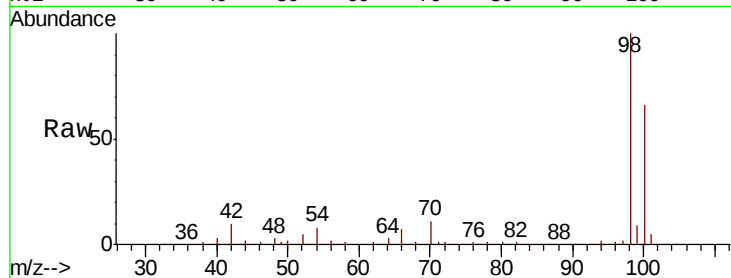
DUP-1-SRI4

Tot Ion: 98 Resp: 306234

Ion Ratio Lower Upper

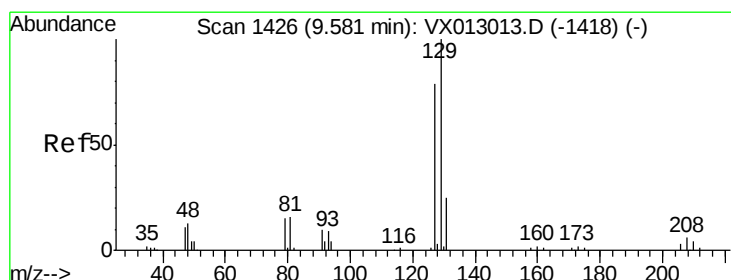
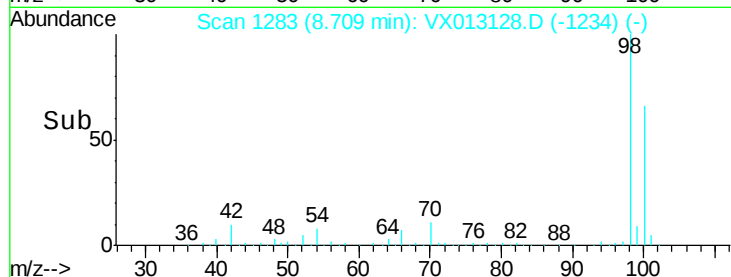
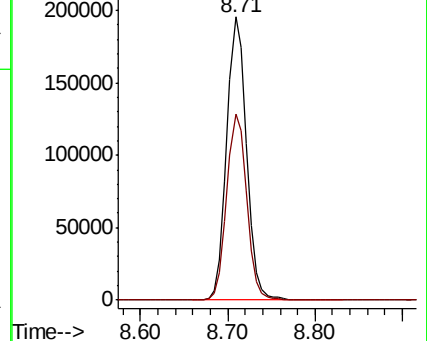
98 100

100 66.6 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 2.140 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.00 min

Lab File: VX013128.D

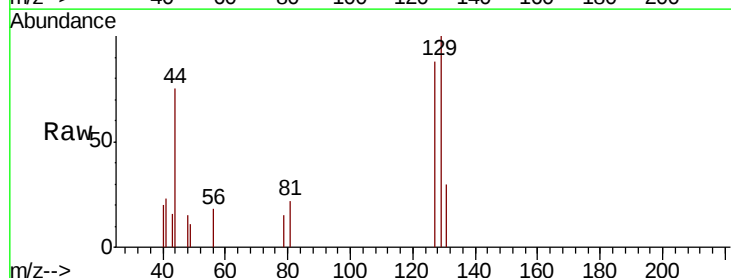
Acq: 18 Oct 2019 15:34

Tgt Ion:129 Resp: 570

Ion Ratio Lower Upper

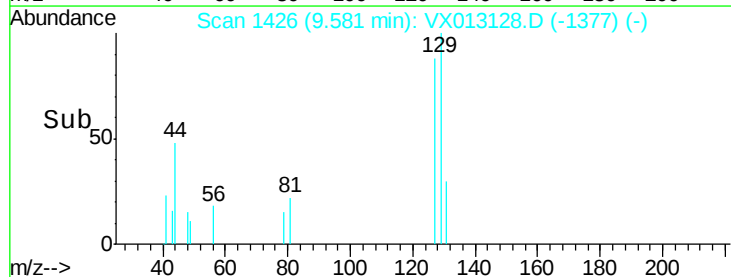
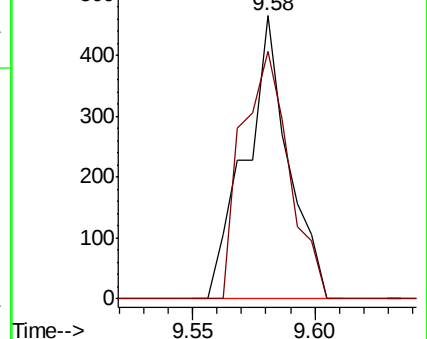
129 100

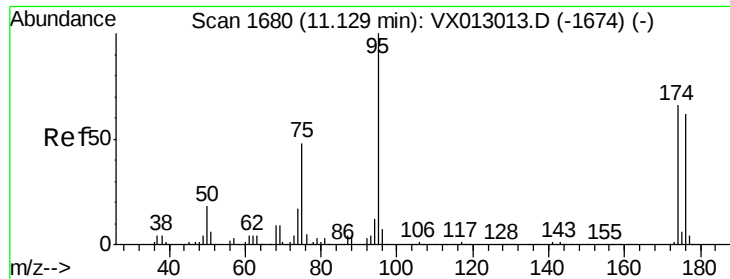
127 96.3 38.9 116.7



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 42.274 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

DUP-1-SRI4

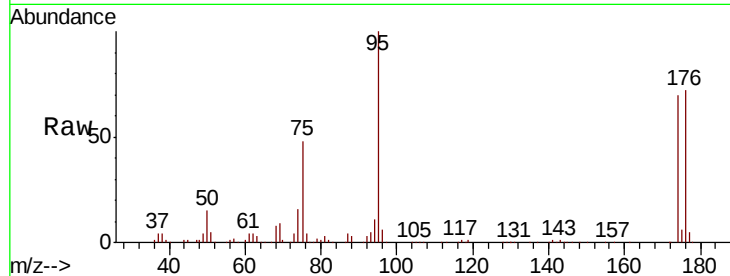
Tot Ion: 95 Resp: 97536

Ion Ratio Lower Upper

95 100

174 73.4 0.0 143.4

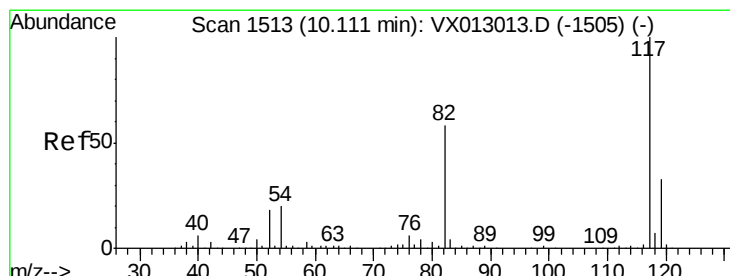
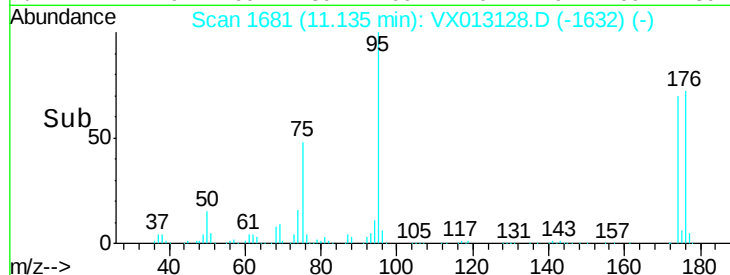
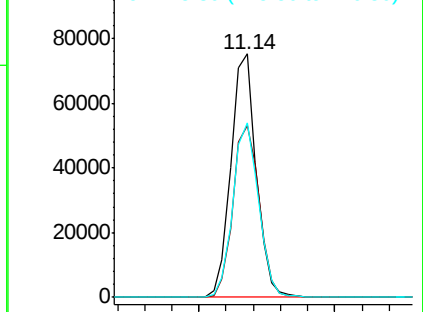
176 72.7 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

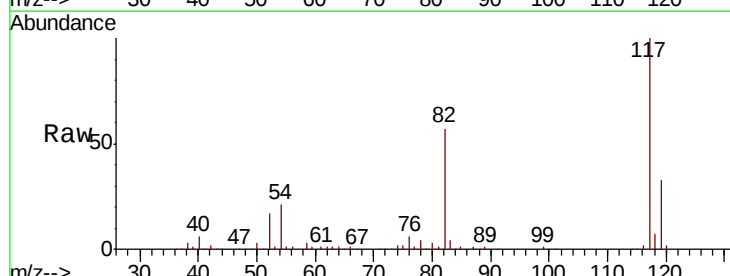
Tgt Ion: 117 Resp: 215885

Ion Ratio Lower Upper

117 100

82 56.9 44.1 66.1

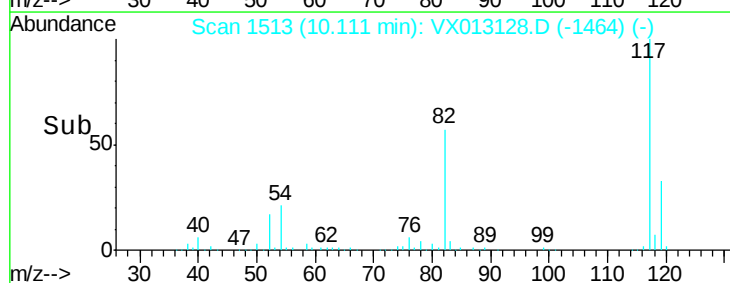
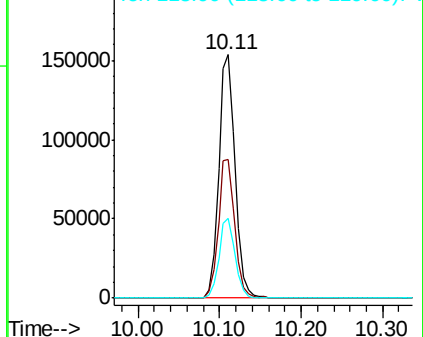
119 33.0 25.8 38.8

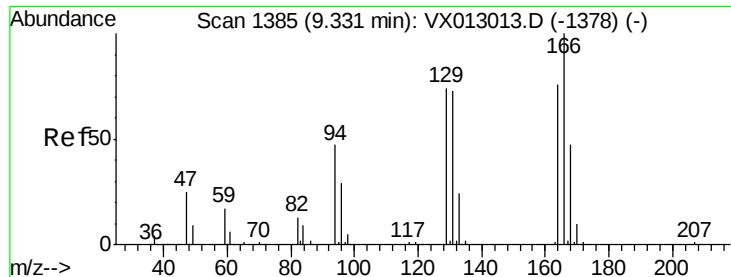


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 6.354 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

DUP-1-SRI4

Tot Ion:164 Resp: 9515

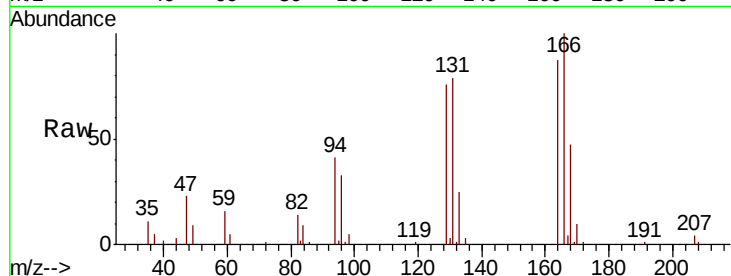
Ion Ratio Lower Upper

164 100

166 115.2 96.9 145.3

129 87.4 77.9 116.9

131 91.3 72.7 109.1

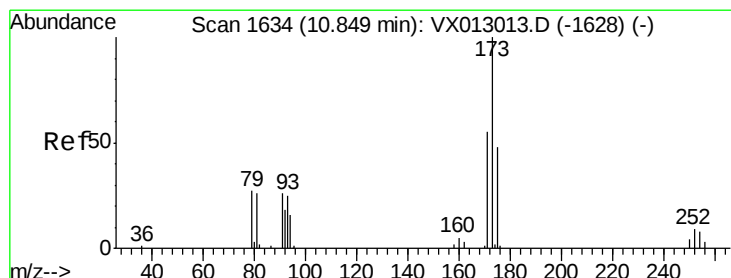
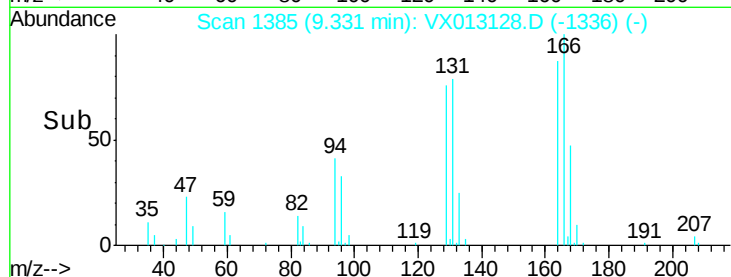
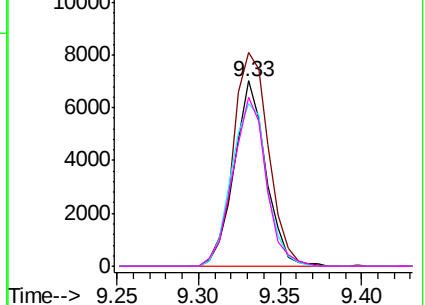


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 3.222 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

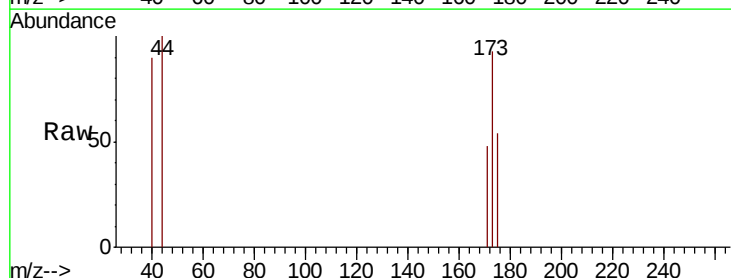
Tgt Ion:173 Resp: 121

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

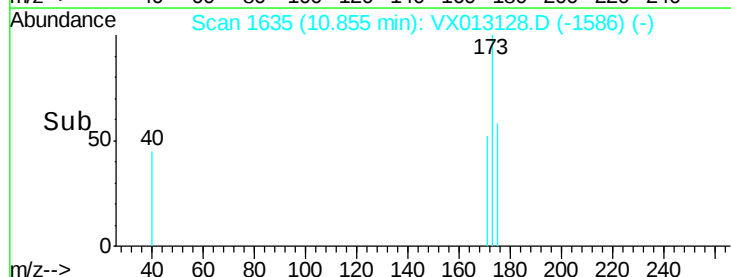
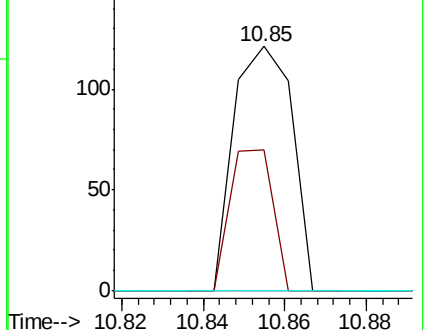
254 0.0 0.1 0.1#

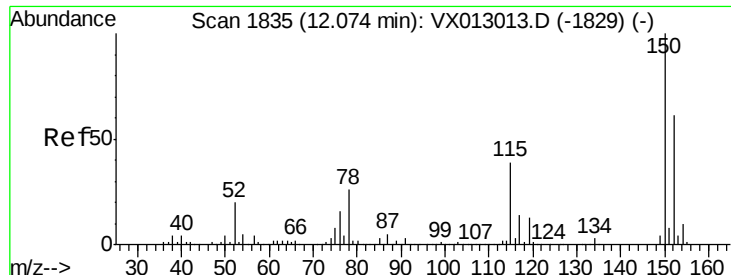


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

DUP-1-SRI4

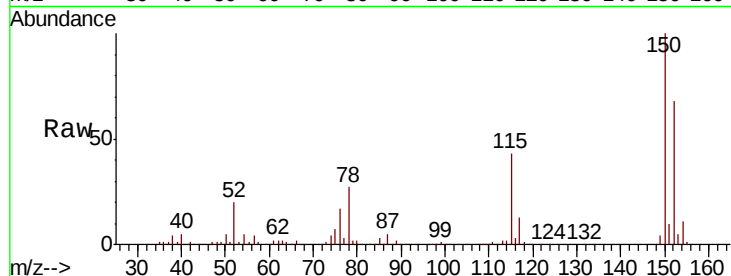
Tot Ion:152 Resp: 80268

Ion Ratio Lower Upper

152 100

115 64.0 44.5 133.5

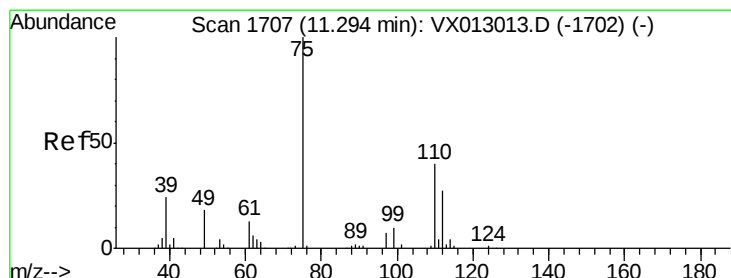
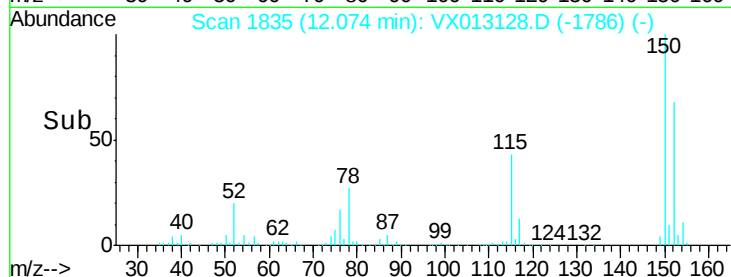
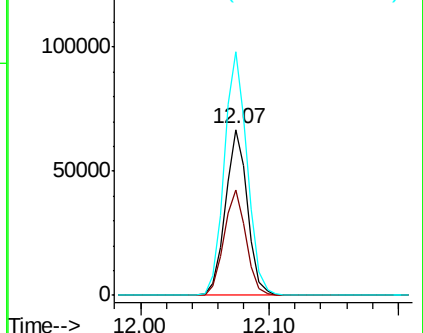
150 153.2 0.0 353.4



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: 27.343 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013128.D

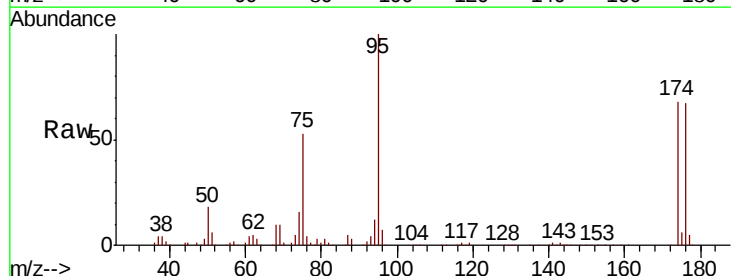
Acq: 18 Oct 2019 15:34

Tgt Ion: 75 Resp: 48679

Ion Ratio Lower Upper

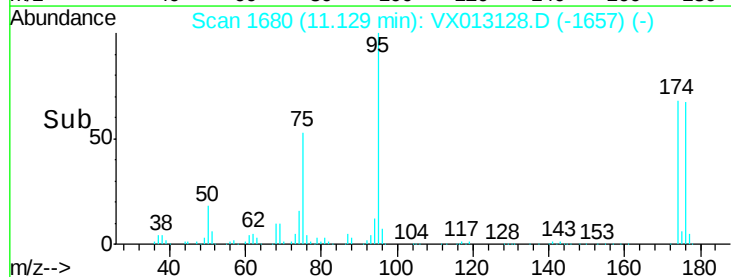
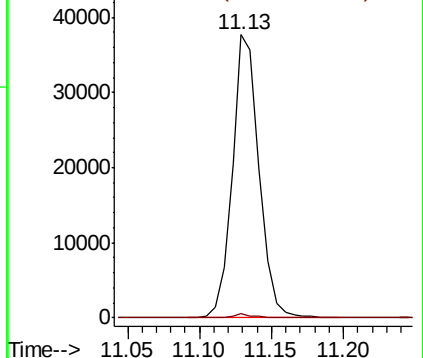
75 100

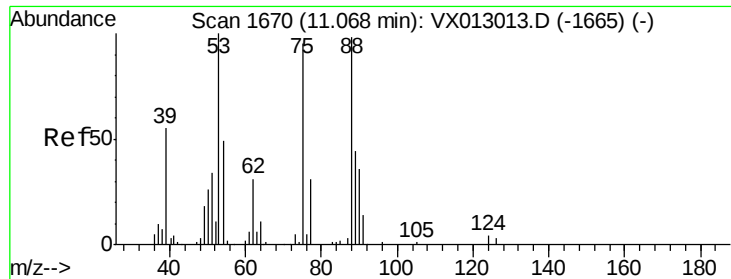
77 1.2 22.9 68.8#



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: 68.652 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013128.D

Acq: 18 Oct 2019 15:34

Instrument :

MSVOA_X

ClientSampleId :

DUP-1-SRI4

Tot Ion: 75 Resp: 48679

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

