

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100818\
 Data File : VX005149.D
 Acq On : 09 Oct 2018 01:50
 Operator : JC/MD
 Sample : J5189-06DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-131D3-20180927DL

Quant Time: Oct 09 06:02:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	196106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	288185	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	284730	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	156503	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	153619	54.84	ug/l	0.00
Spiked Amount			Recovery	=	109.68%	
35) Dibromofluoromethane	5.51	113	127028	52.01	ug/l	0.00
Spiked Amount			Recovery	=	104.02%	
50) Toluene-d8	8.72	98	421526	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
62) 4-Bromofluorobenzene	11.14	95	146899	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	

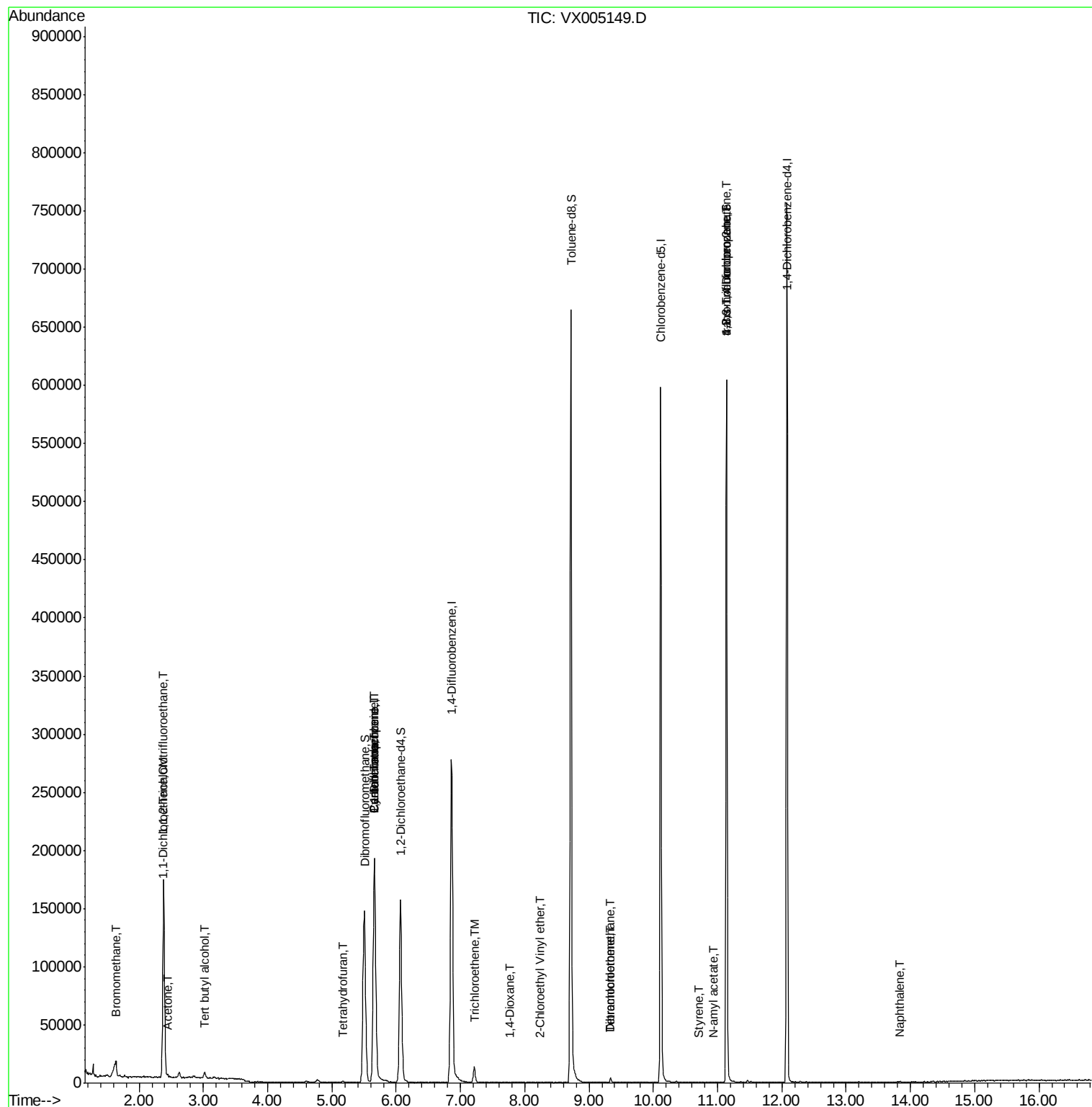
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1056	0.585	ug/l	87
6) Chloroethane	1.73	64	54	Below Cal	#	5
9) 1,1,2-Trichlorotrifluoroet	2.38	101	68617	31.980	ug/l	99
11) Tert butyl alcohol	3.02	59	2960	3.779	ug/l #	78
12) 1,1-Dichloroethene	2.37	96	819	0.385	ug/l	92
16) Acetone	2.45	43	1706	1.043	ug/l	99
20) Methylene Chloride	2.85	84	524	Below Cal	#	67
29) Tetrahydrofuran	5.17	42	840	0.561	ug/l #	57
31) Cyclohexane	5.66	56	3719	1.043	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13511	4.054	ug/l #	47
38) Carbon Tetrachloride	5.66	117	16969	4.844	ug/l #	18
44) Trichloroethene	7.21	130	5228	2.038	ug/l	94
49) 1,4-Dioxane	7.76	88	23	0.319	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.24	63	19	14.250	ug/l #	49
60) Dibromochloromethane	9.34	129	711	0.283	ug/l #	10
64) Tetrachloroethene	9.33	164	831	0.297	ug/l #	75
70) Styrene	10.72	104	50	2.147	ug/l #	25
74) N-amyl acetate	10.94	43	115	1.768	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	73458	20.941	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	101	Below Cal		80
81) trans-1,4-Dichloro-2-buten	11.14	75	73458	56.832	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	220	Below Cal		94
95) Naphthalene	13.83	128	337	0.745	ug/l #	69

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

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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

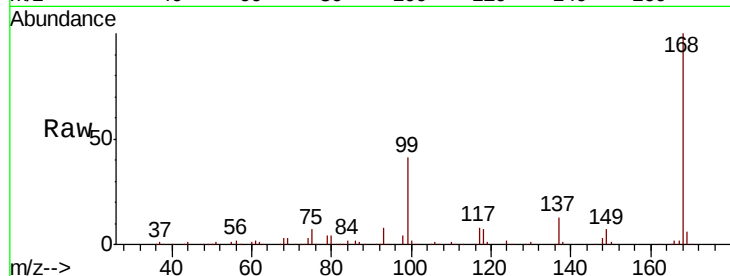
RE-131D3-20180927DL

Tot Ion:168 Resp: 196106

Ion Ratio Lower Upper

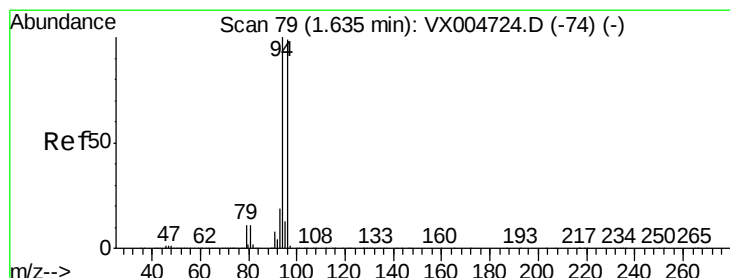
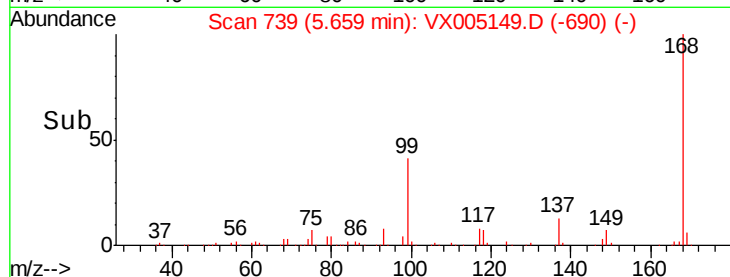
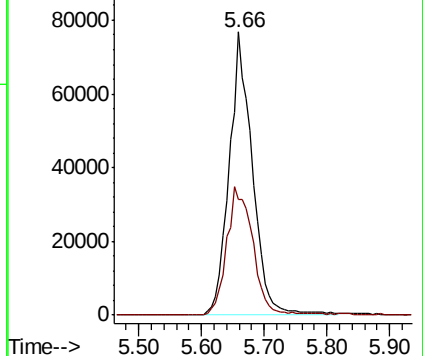
168 100

99 41.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.585 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005149.D

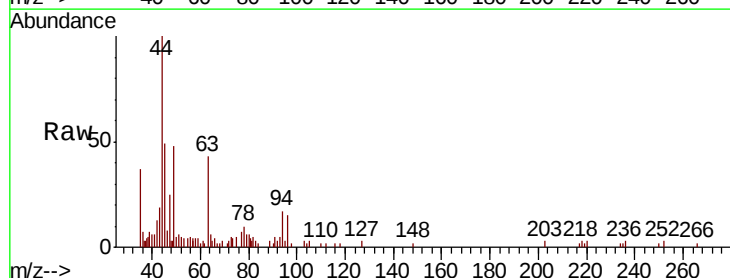
Acq: 09 Oct 2018 01:50

Tgt Ion: 94 Resp: 1056

Ion Ratio Lower Upper

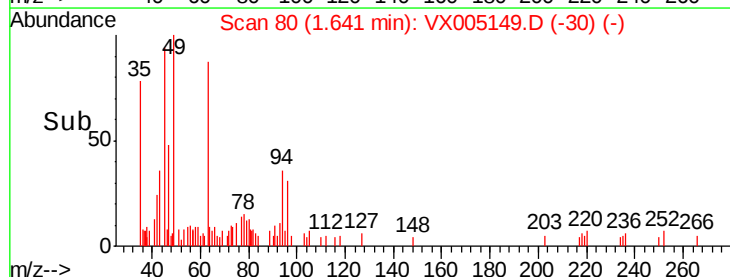
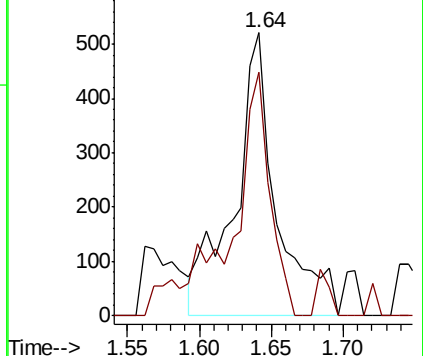
94 100

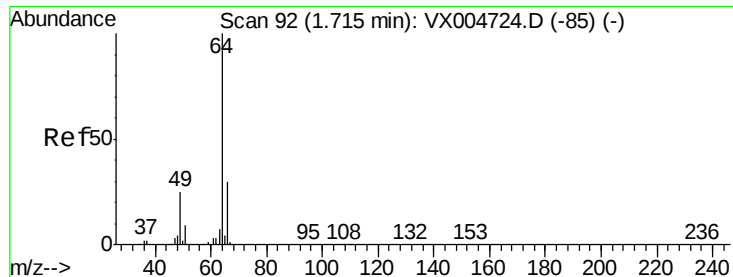
96 86.0 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

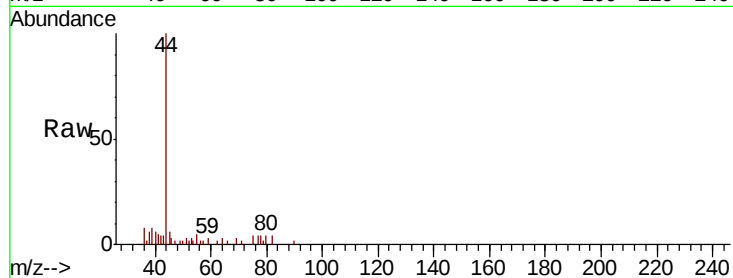
RE-131D3-20180927DL

Tot Ion: 64 Resp: 54

Ion Ratio Lower Upper

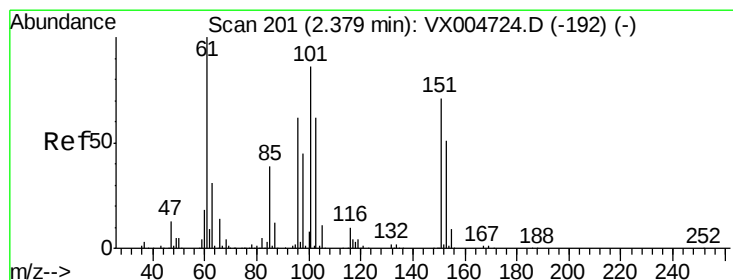
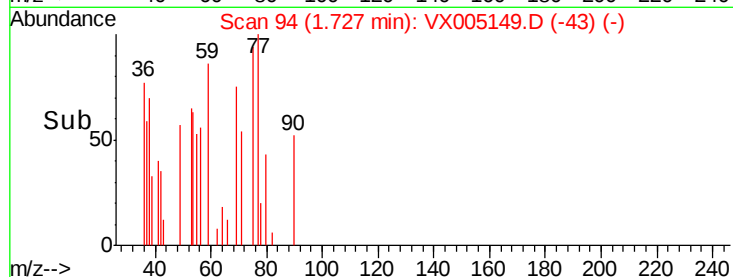
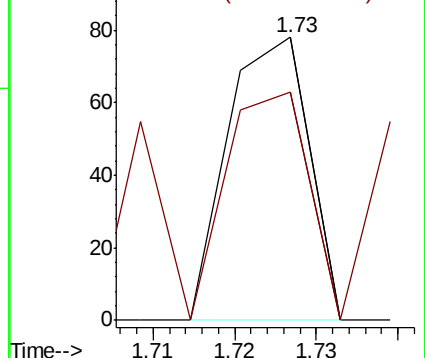
64 100

66 80.8 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 31.980 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.00 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

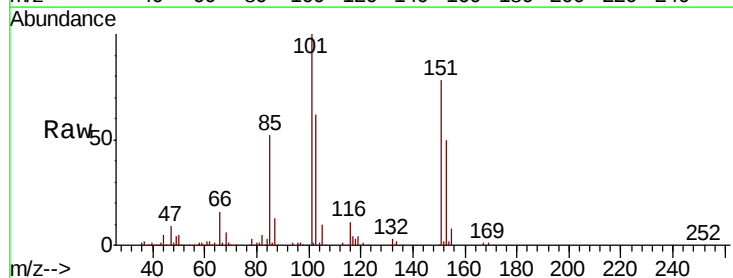
Tgt Ion:101 Resp: 68617

Ion Ratio Lower Upper

101 100

85 44.5 35.9 53.9

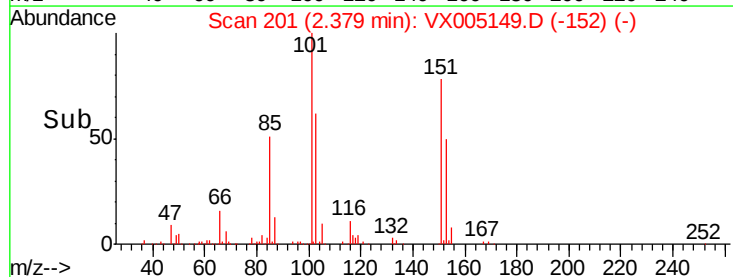
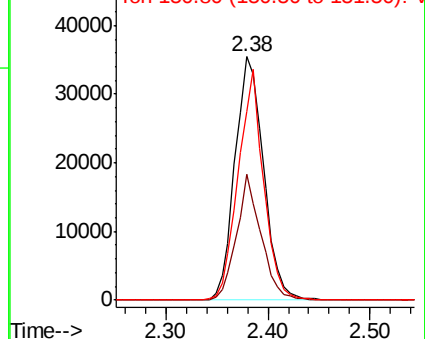
151 84.2 66.6 100.0

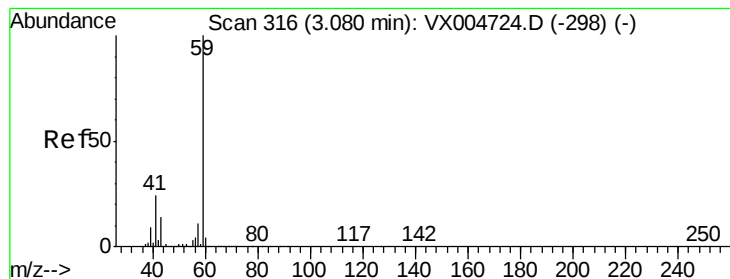


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



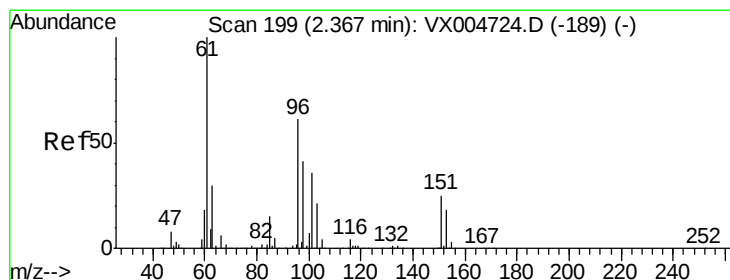
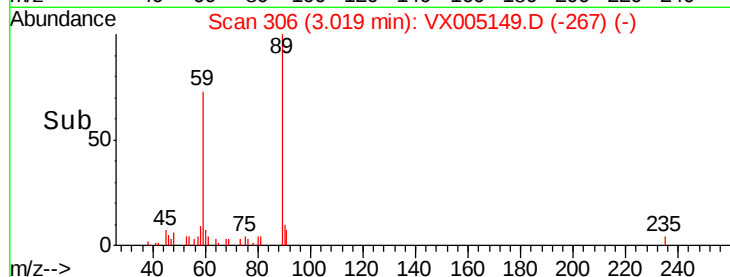
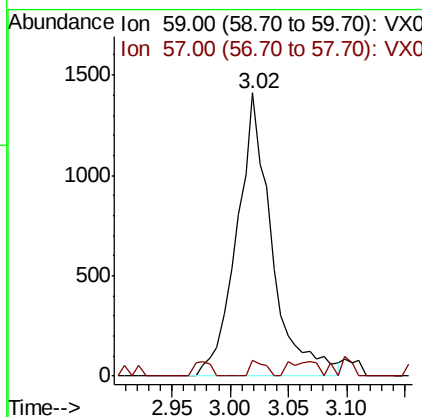
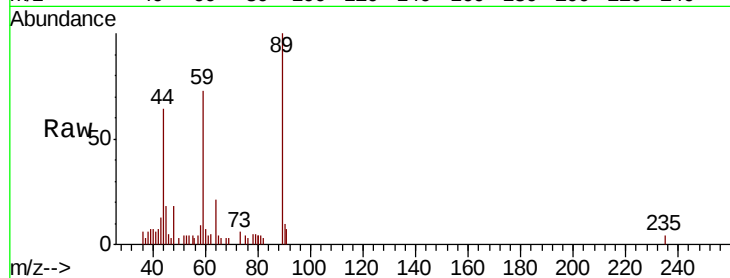


#11

Tert butyl alcohol
 Concen: 3.779 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005149.D
 Acq: 09 Oct 2018 01:50

Instrument :
 MSVOA_X
 ClientSampleId :
 RE-131D3-20180927DL

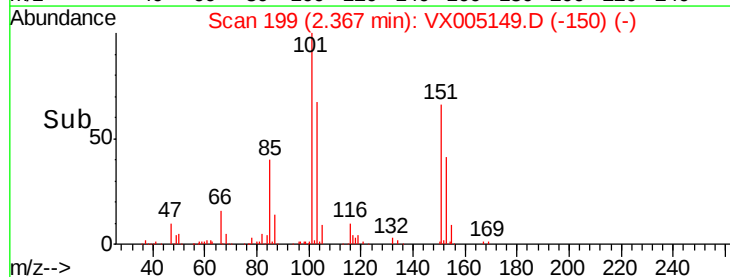
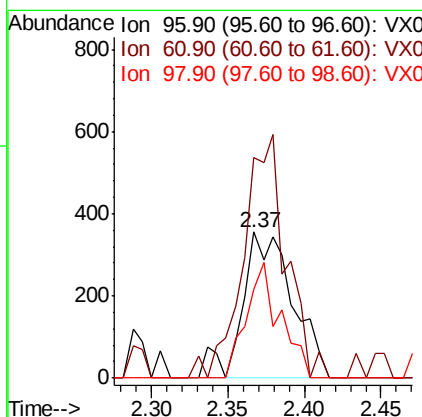
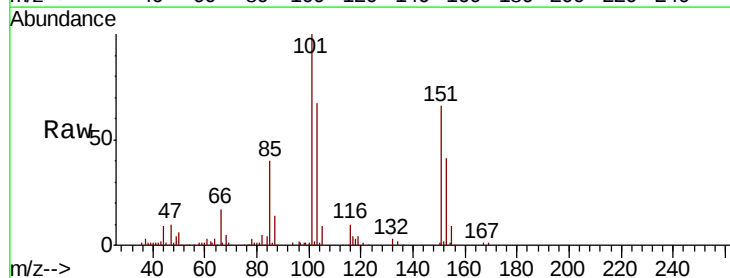
Tot Ion: 59 Resp: 2960
 Ion Ratio Lower Upper
 59 100
 57 2.4 8.6 12.8#

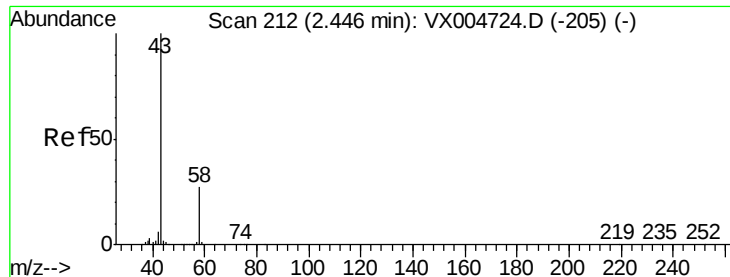


#12

1,1-Dichloroethene
 Concen: 0.385 ug/l
 RT: 2.37 min Scan# 199
 Delta R.T. -0.00 min
 Lab File: VX005149.D
 Acq: 09 Oct 2018 01:50

Tgt Ion: 96 Resp: 819
 Ion Ratio Lower Upper
 96 100
 61 151.1 130.2 195.4
 98 60.7 53.4 80.0





#16

Acetone

Concen: 1.043 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

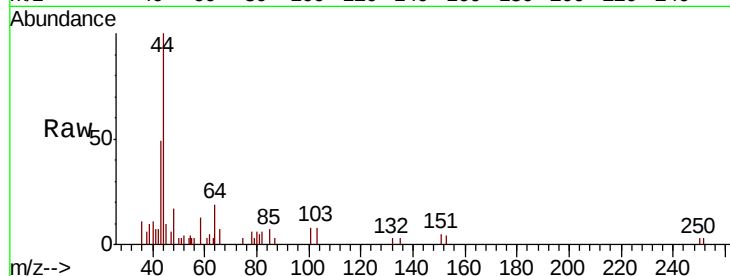
RE-131D3-20180927DL

Tot Ion: 43 Resp: 1706

Ion Ratio Lower Upper

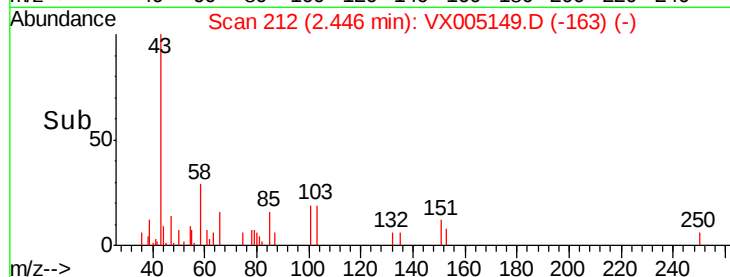
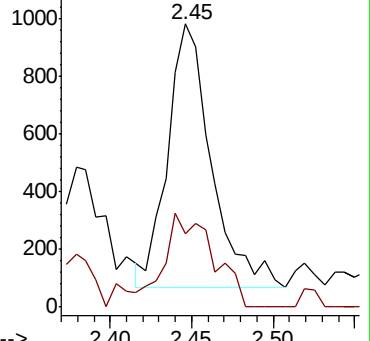
43 100

58 27.7 21.8 32.6

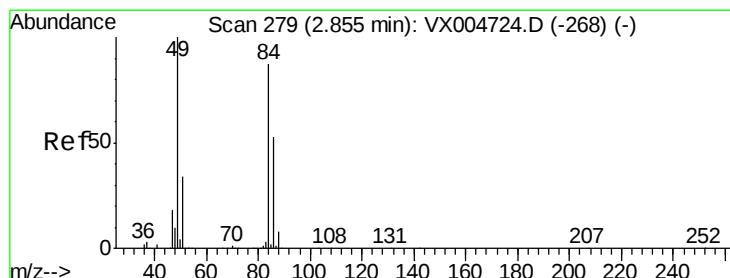


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Tgt Ion: 84 Resp: 524

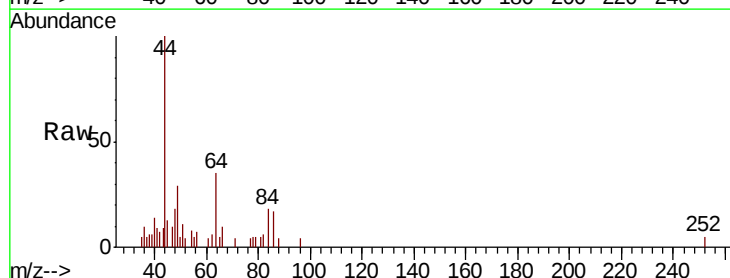
Ion Ratio Lower Upper

84 100

49 155.1 92.3 138.5#

51 34.4 31.8 47.6

86 92.6 48.5 72.7#

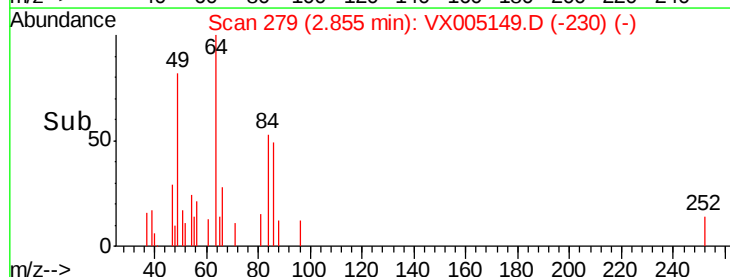
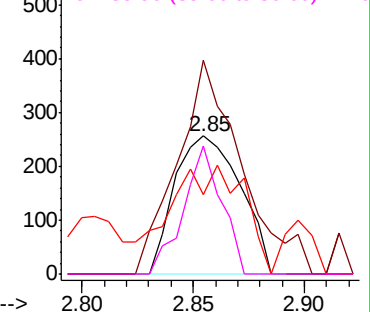


Abundance Ion 83.90 (83.60 to 84.60): VX0

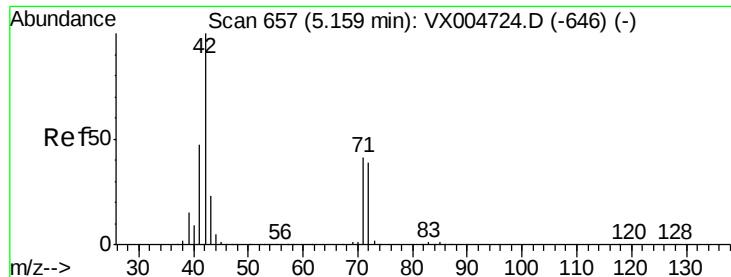
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->



#29

Tetrahydrofuran

Concen: 0.561 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

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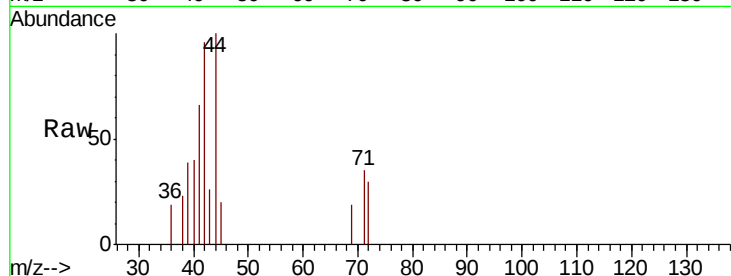
Tot Ion: 42 Resp: 840

Ion Ratio Lower Upper

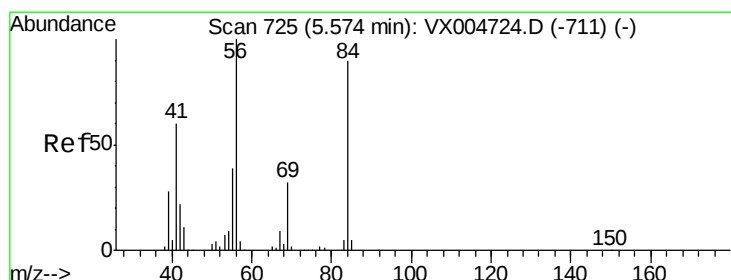
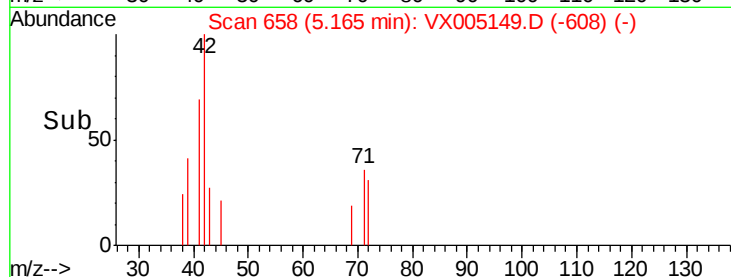
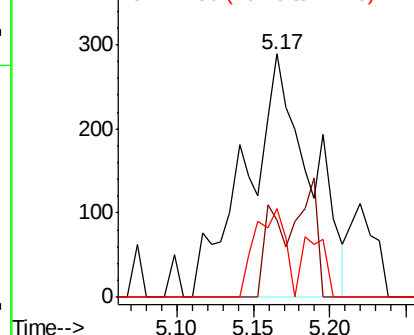
42 100

72 11.3 33.7 50.5#

71 17.4 32.2 48.4#



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: 1.043 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

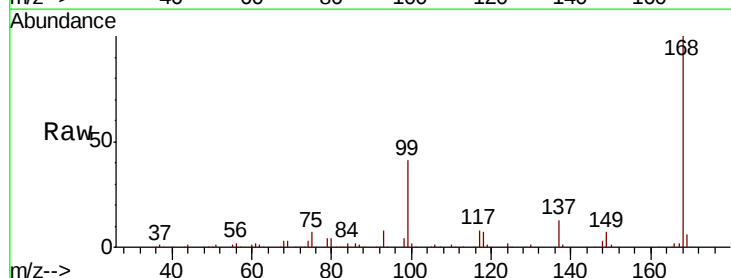
Tgt Ion: 56 Resp: 3719

Ion Ratio Lower Upper

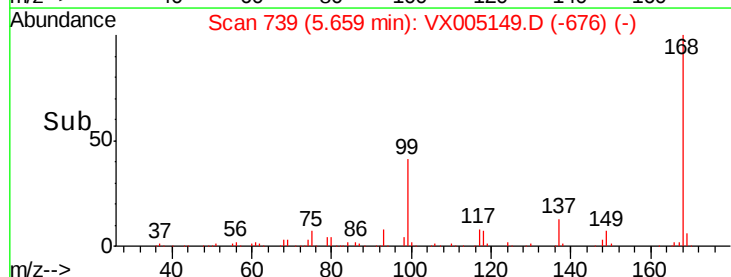
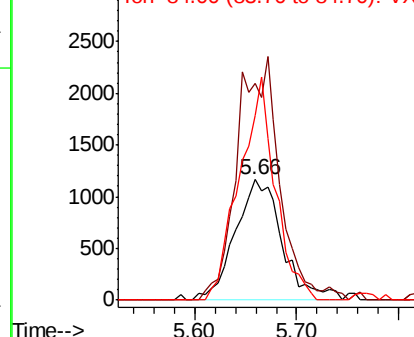
56 100

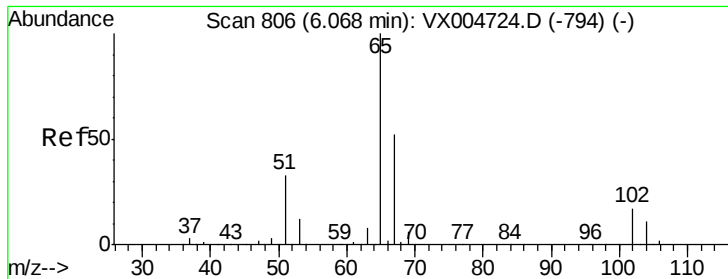
69 180.6 25.9 38.9#

84 153.5 71.9 107.9#



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: 54.837 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Instrument :

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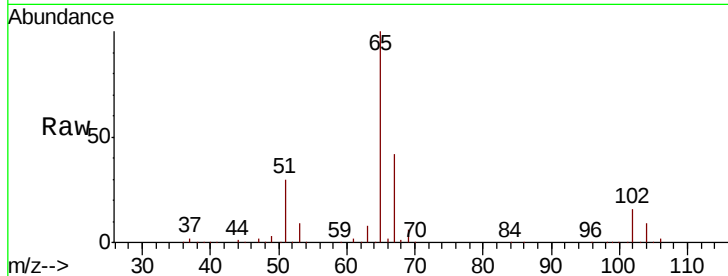
RE-131D3-20180927DL

Tot Ion: 65 Resp: 153619

Ion Ratio Lower Upper

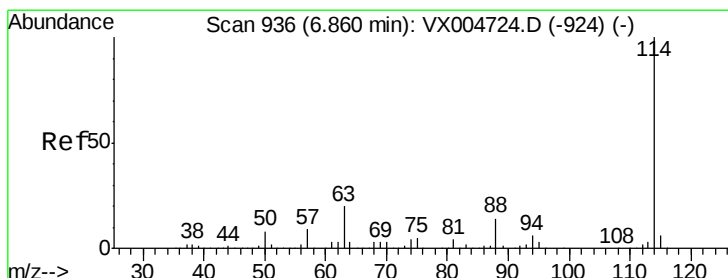
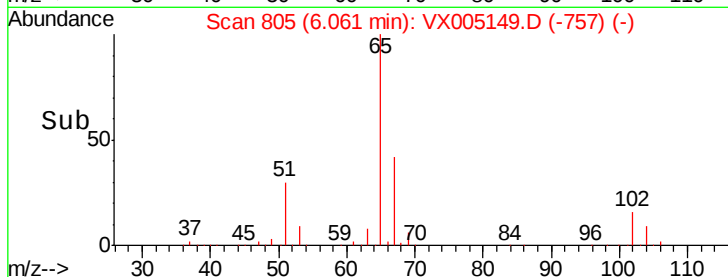
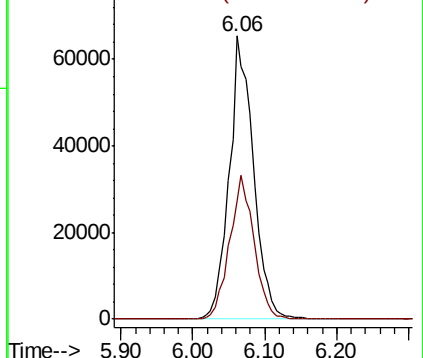
65 100

67 51.2 0.0 107.4



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

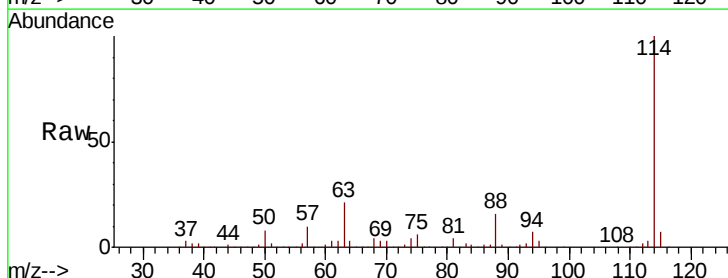
Tgt Ion: 114 Resp: 288185

Ion Ratio Lower Upper

114 100

63 21.5 0.0 39.8

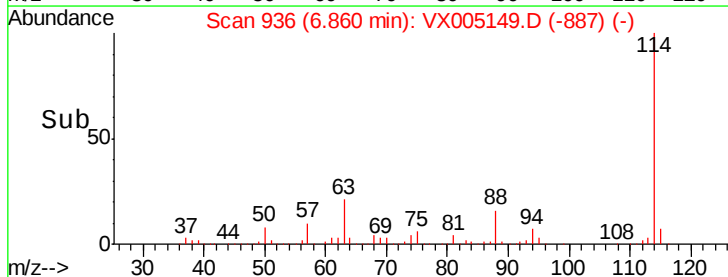
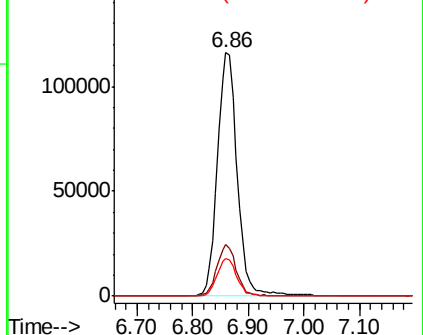
88 15.6 0.0 27.0

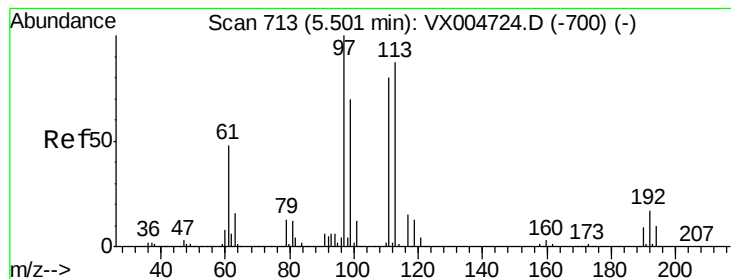


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 52.009 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005149.D

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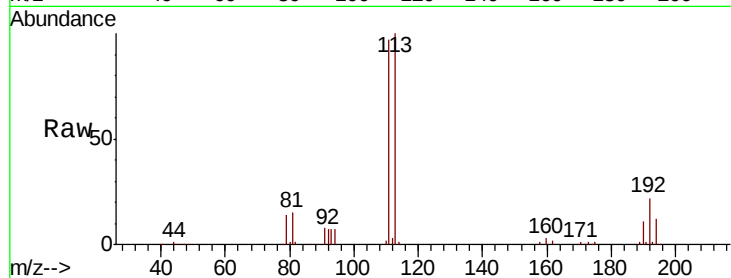
Tot Ion:113 Resp: 127028

Ion Ratio Lower Upper

113 100

111 100.3 77.0 115.4

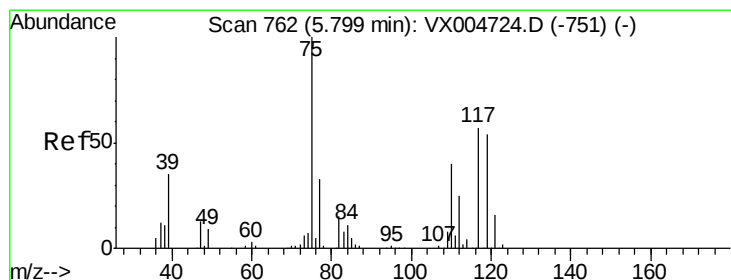
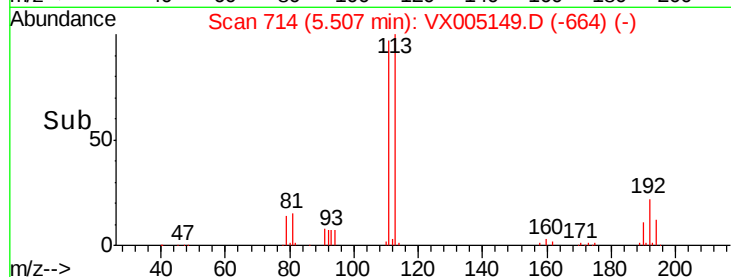
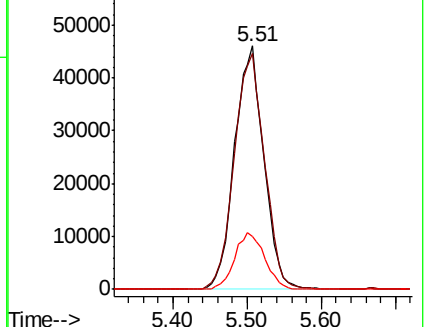
192 24.0 17.0 25.6



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: 4.054 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

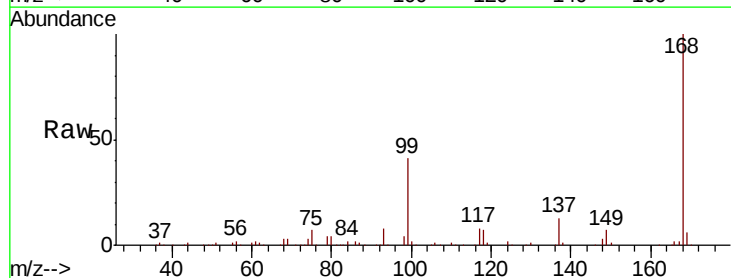
Tgt Ion: 75 Resp: 13511

Ion Ratio Lower Upper

75 100

110 10.1 20.0 59.9#

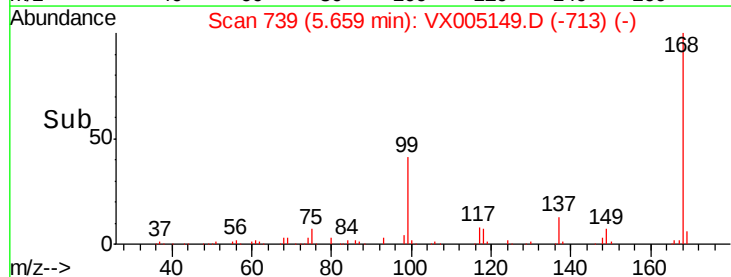
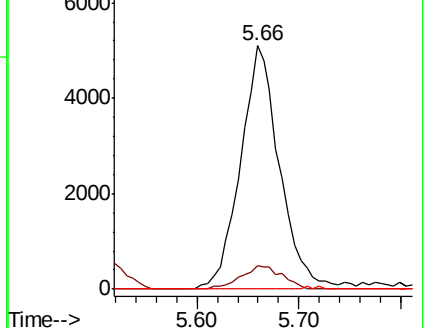
77 0.0 27.1 40.7#

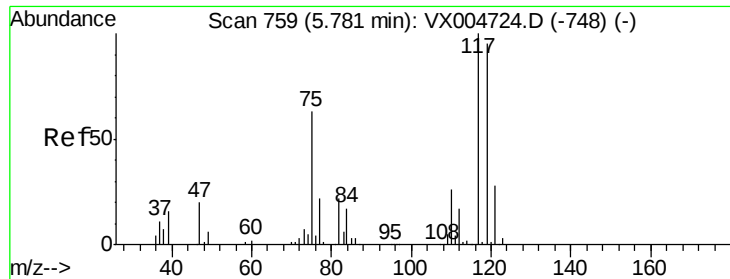


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

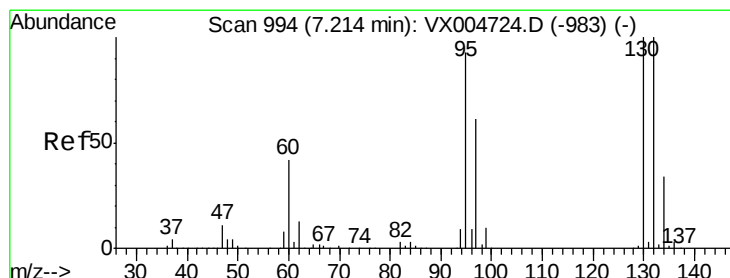
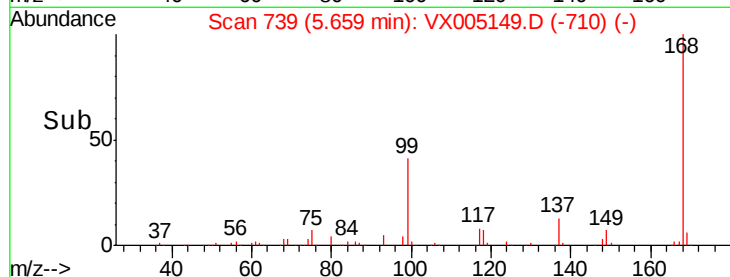
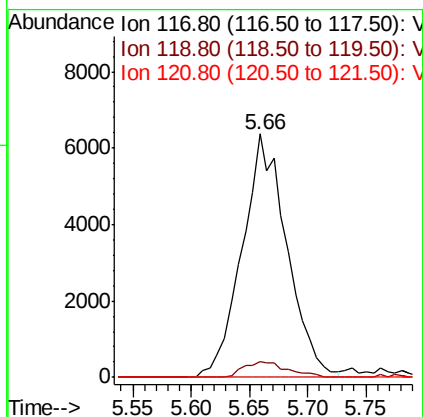
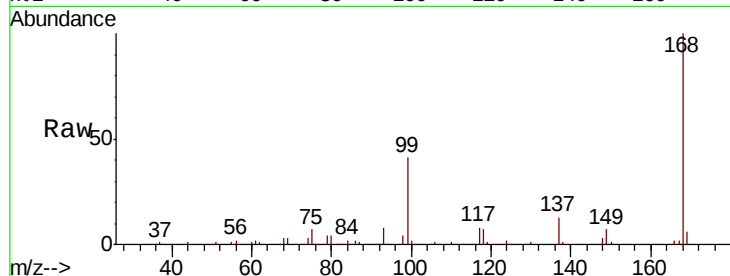




#38
Carbon Tetrachloride
Concen: 4.844 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX005149.D
Acq: 09 Oct 2018 01:50

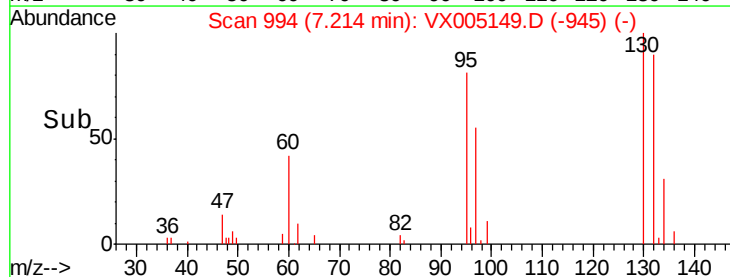
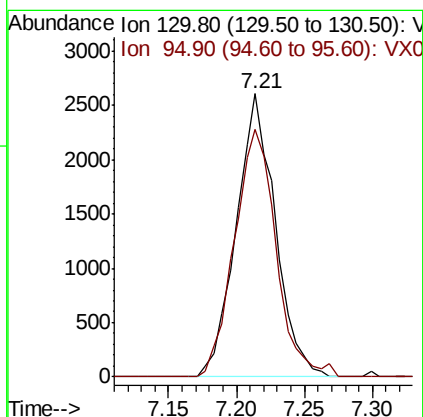
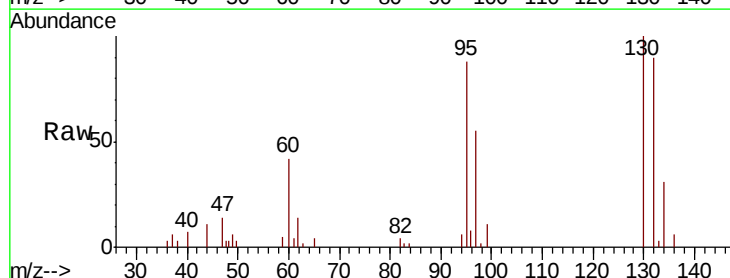
Instrument :
MSVOA_X
ClientSampleId :
RE-131D3-20180927DL

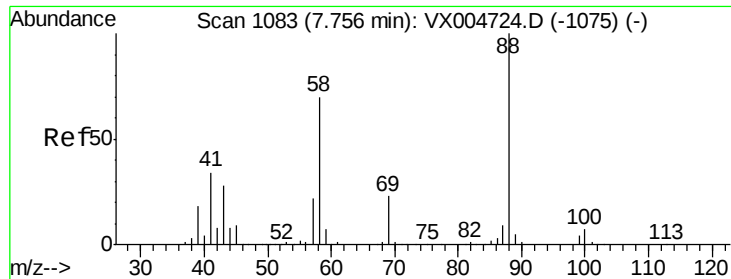
Tot Ion:117 Resp: 16969
Ion Ratio Lower Upper
117 100
119 6.3 75.2 112.8#
121 0.0 22.5 33.7#



#44
Trichloroethene
Concen: 2.038 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX005149.D
Acq: 09 Oct 2018 01:50

Tgt Ion:130 Resp: 5228
Ion Ratio Lower Upper
130 100
95 87.6 0.0 186.8





#49

1,4-Dioxane

Concen: 0.319 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

RE-131D3-20180927DL

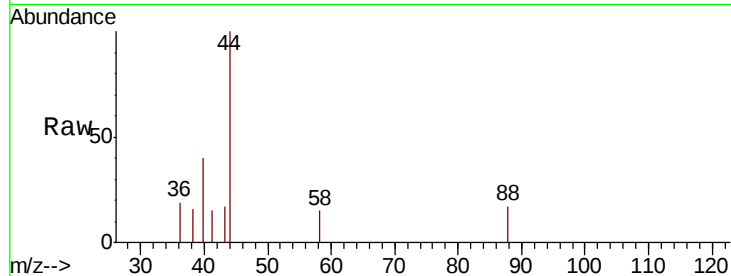
Tot Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 182.6 25.1 37.7#

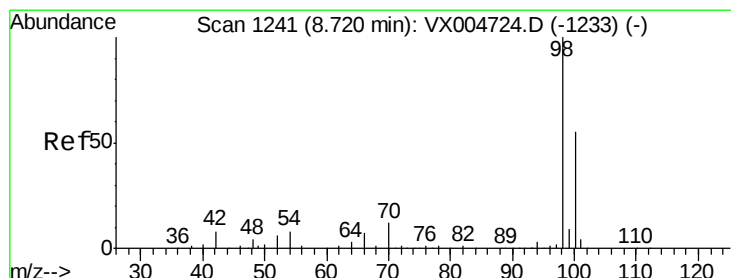
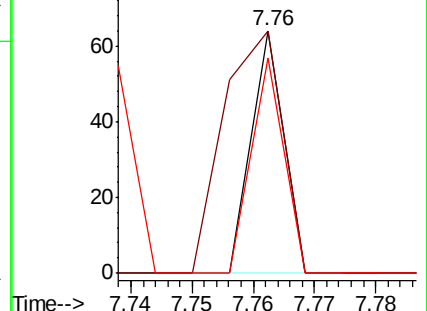
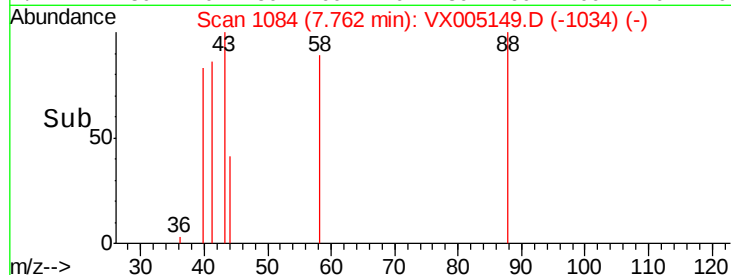
58 91.3 56.2 84.2#



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: 51.914 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX005149.D

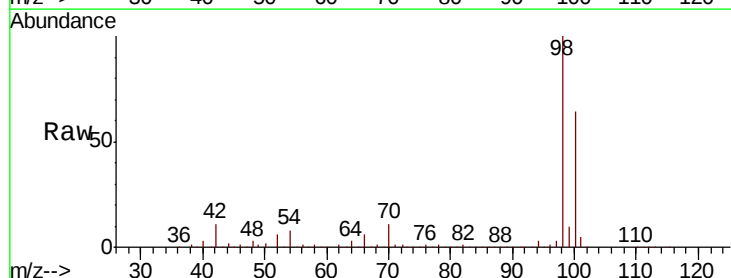
Acq: 09 Oct 2018 01:50

Tgt Ion: 98 Resp: 421526

Ion Ratio Lower Upper

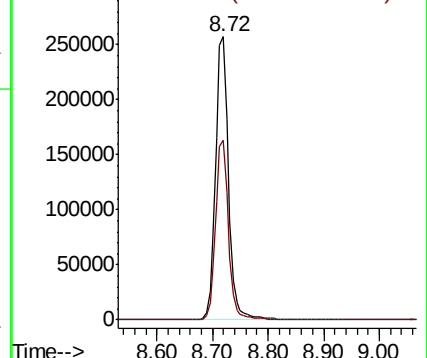
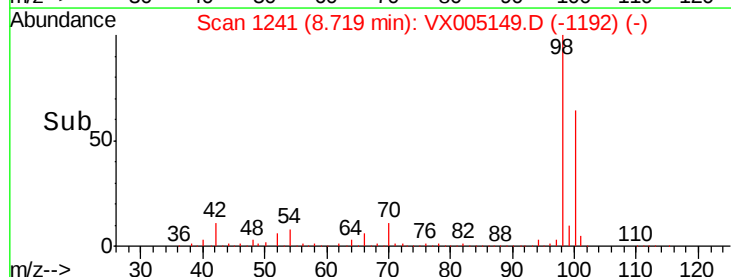
98 100

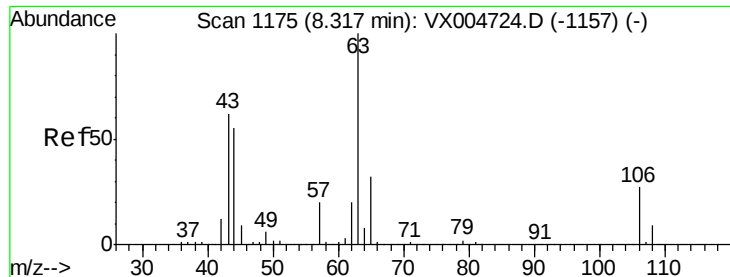
100 63.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#58

2-Chloroethyl Vinyl ether

Concen: 14.250 ug/l

RT: 8.24 min Scan# 1162

Delta R.T. -0.08 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

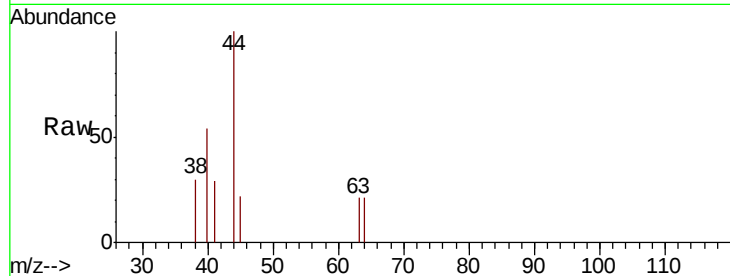
RE-131D3-20180927DL

Tot Ion: 63 Resp: 19

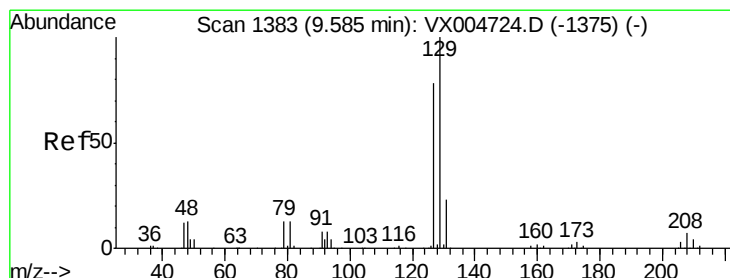
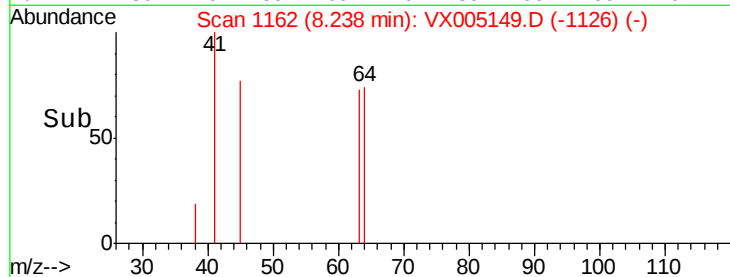
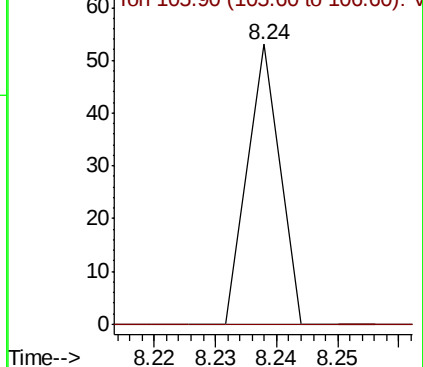
Ion Ratio Lower Upper

63 100

106 0.0 21.0 31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX004724.D (-1157) (-)



#60

Dibromochloromethane

Concen: 0.283 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX005149.D

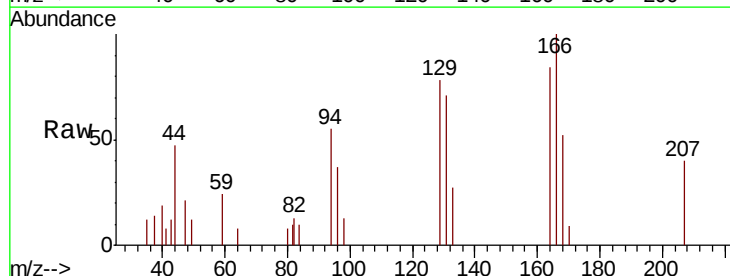
Acq: 09 Oct 2018 01:50

Tgt Ion: 129 Resp: 711

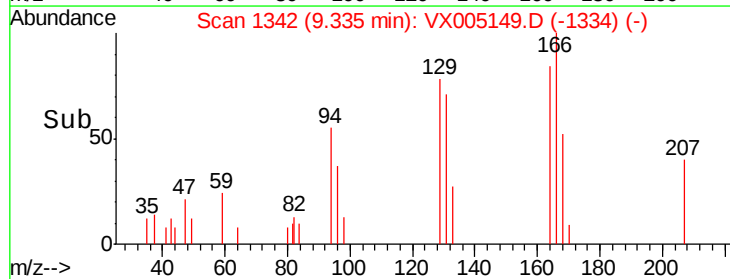
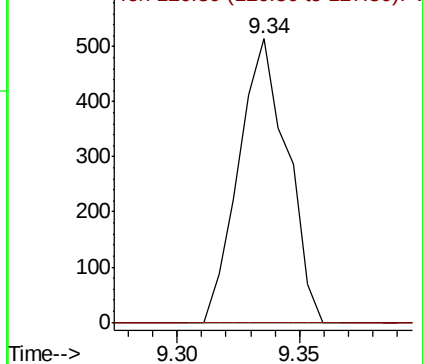
Ion Ratio Lower Upper

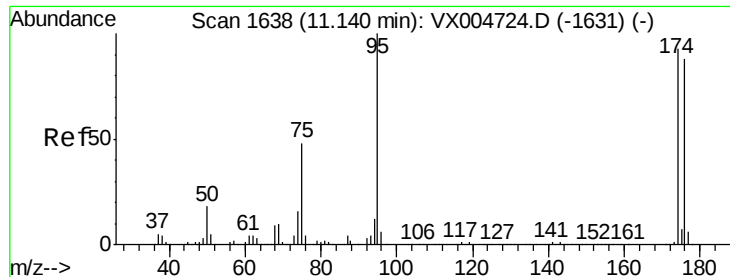
129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): VX004724.D (-1375) (-)

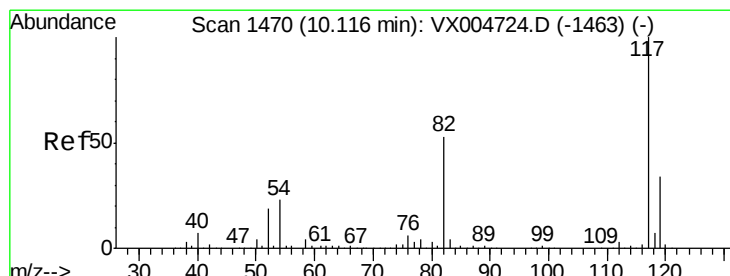
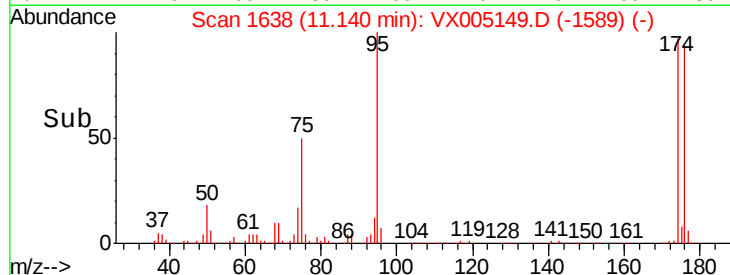
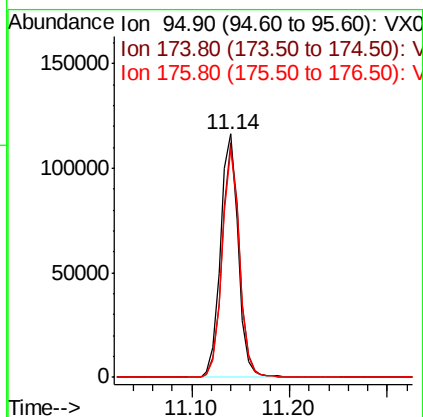
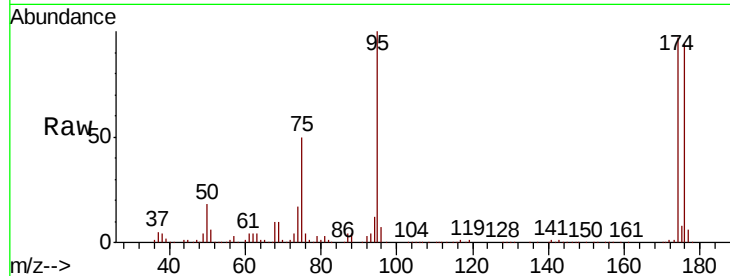




#62
4-Bromofluorobenzene
Concen: 50.219 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005149.D
Acq: 09 Oct 2018 01:50

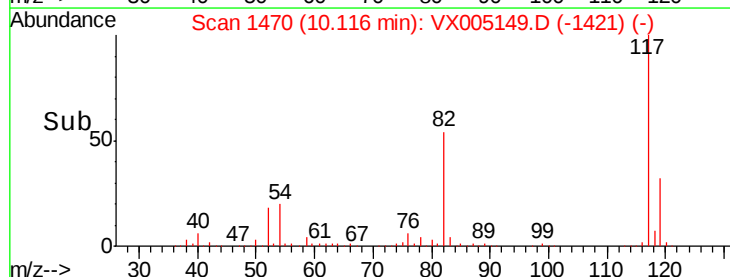
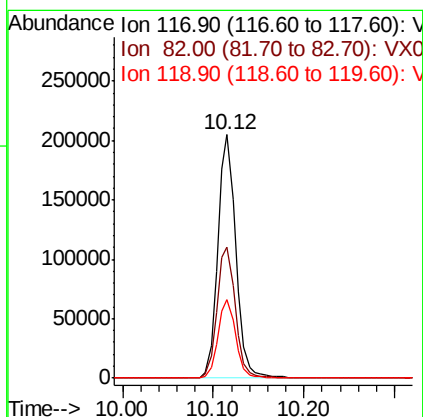
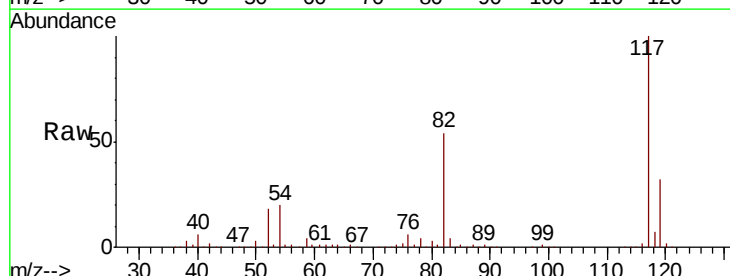
Instrument :
MSVOA_X
ClientSampleId :
RE-131D3-20180927DL

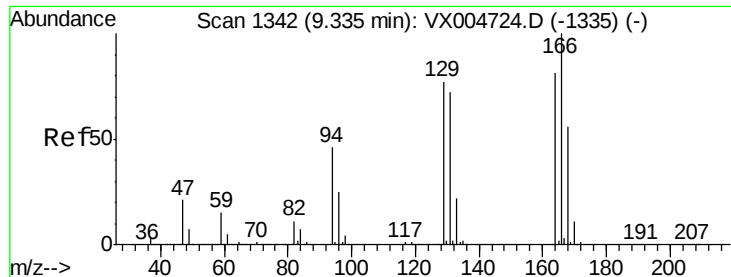
Tot Ion: 95 Resp: 146899
Ion Ratio Lower Upper
95 100
174 94.0 0.0 185.0
176 91.1 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005149.D
Acq: 09 Oct 2018 01:50

Tgt Ion: 117 Resp: 284730
Ion Ratio Lower Upper
117 100
82 53.9 42.2 63.4
119 32.3 27.4 41.0

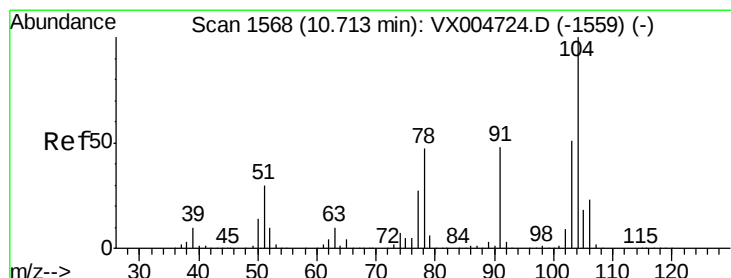
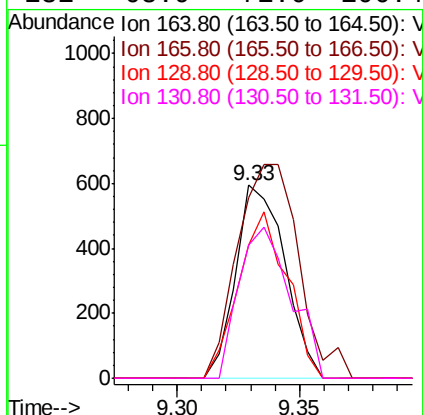
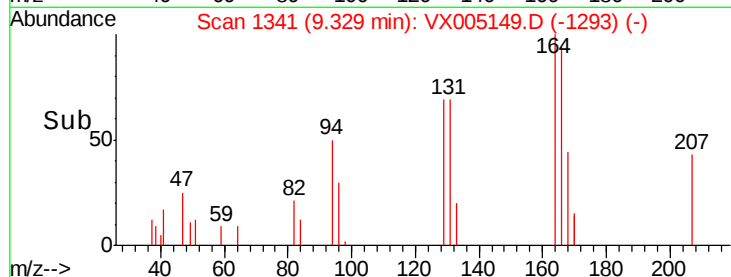
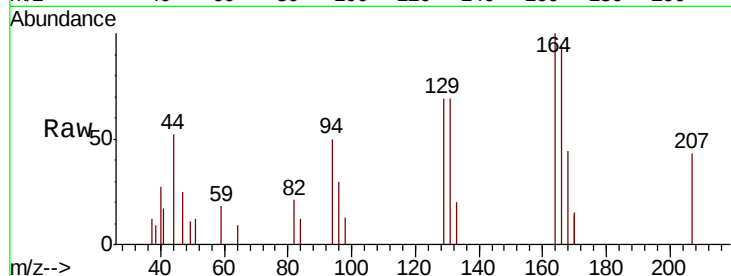




#64
 Tetrachloroethene
 Concen: 0.297 ug/l
 RT: 9.33 min Scan# 1341
 Delta R.T. -0.01 min
 Lab File: VX005149.D
 Acq: 09 Oct 2018 01:50

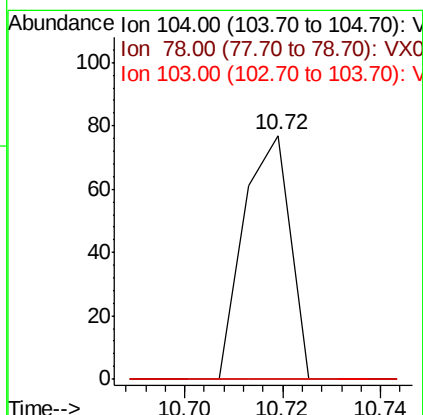
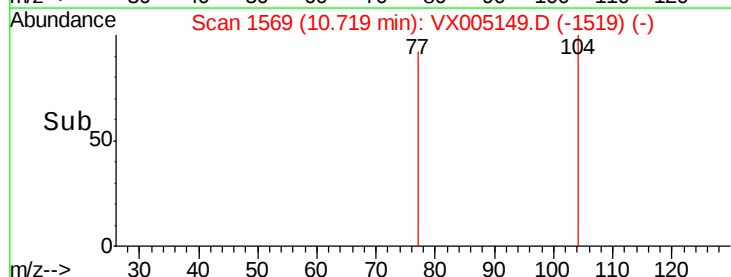
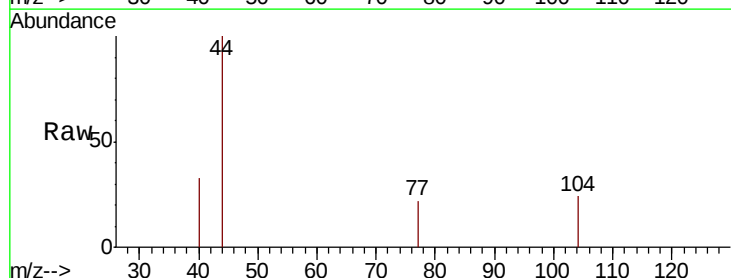
Instrument :
 MSVOA_X
 ClientSampleId :
 RE-131D3-20180927DL

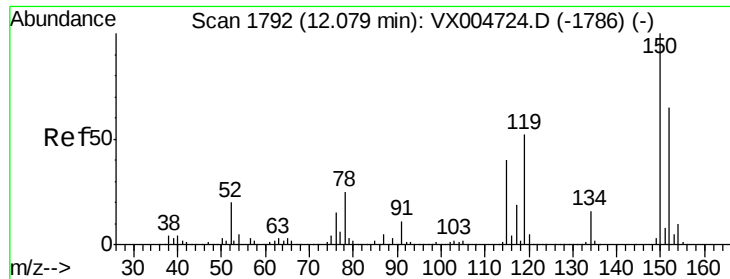
Tot Ion:	164	Resp:	831
Ion	Ratio	Lower	Upper
164	100		
166	93.8	98.4	147.6#
129	69.2	76.1	114.1#
131	68.9	71.0	106.4#



#70
 Styrene
 Concen: 2.147 ug/l
 RT: 10.72 min Scan# 1569
 Delta R.T. 0.01 min
 Lab File: VX005149.D
 Acq: 09 Oct 2018 01:50

Tgt Ion:	104	Resp:	50
Ion	Ratio	Lower	Upper
104	100		
78	0.0	40.0	60.0#
103	0.0	44.3	66.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

RE-131D3-20180927DL

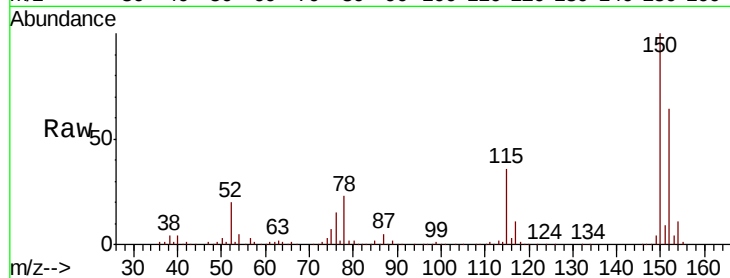
Tot Ion:152 Resp: 156503

Ion Ratio Lower Upper

152 100

115 55.6 40.2 120.6

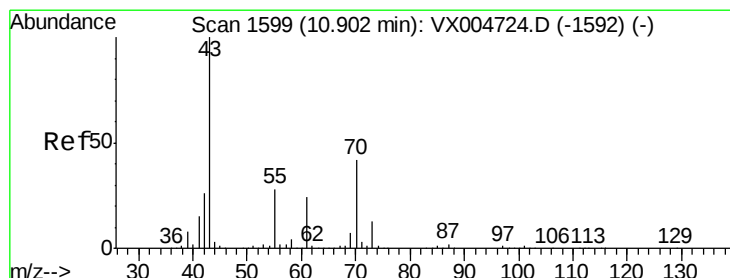
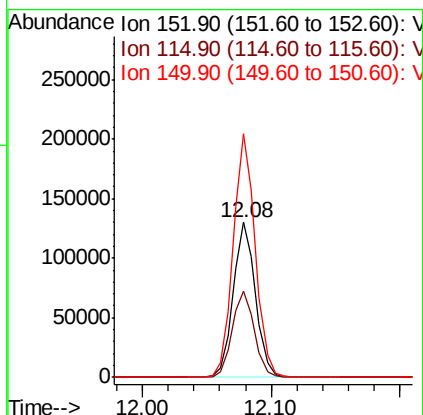
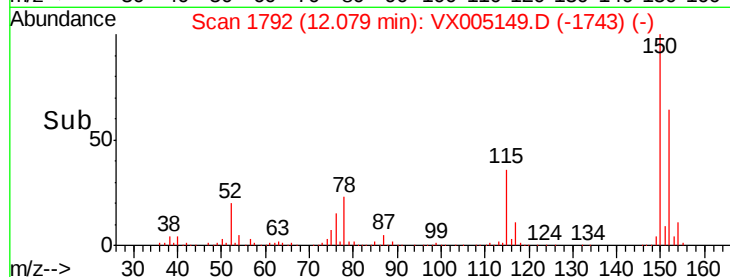
150 156.0 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.768 ug/l

RT: 10.94 min Scan# 1605

Delta R.T. 0.04 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Tgt Ion: 43 Resp: 115

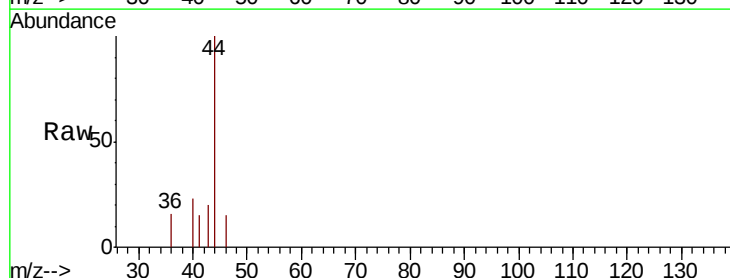
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

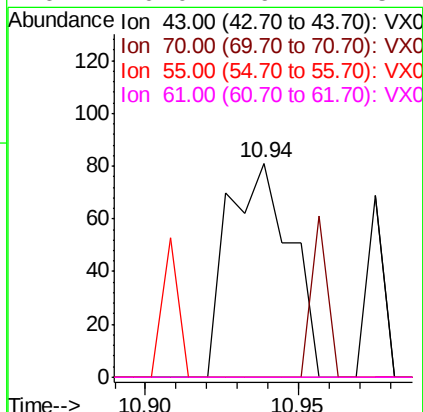
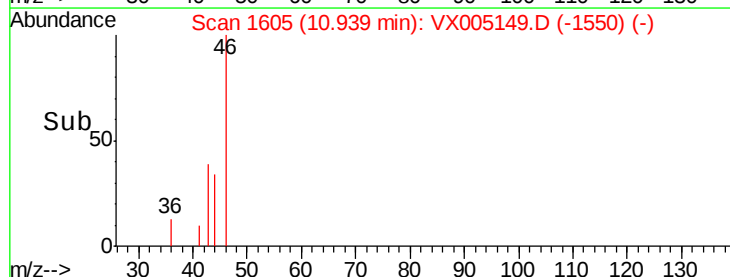


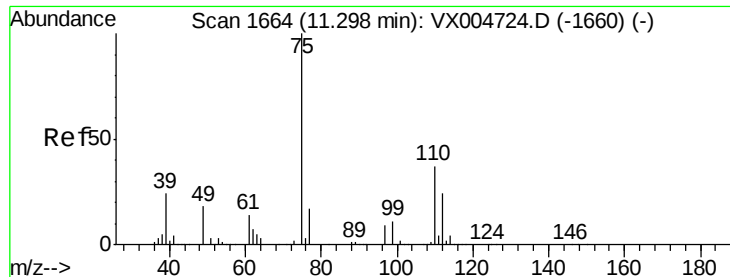
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 20.941 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

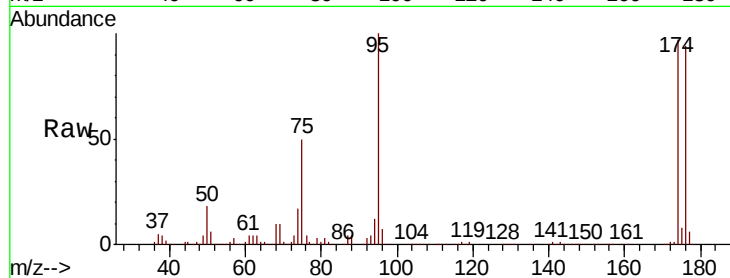
RE-131D3-20180927DL

Tot Ion: 75 Resp: 73458

Ion Ratio Lower Upper

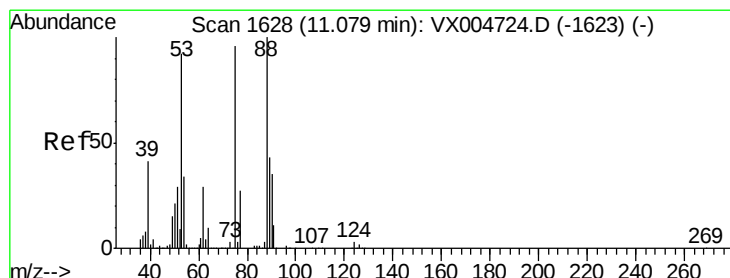
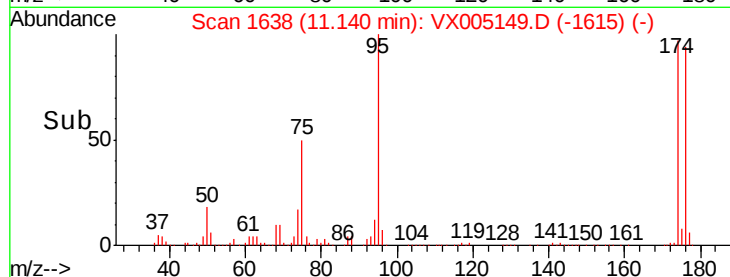
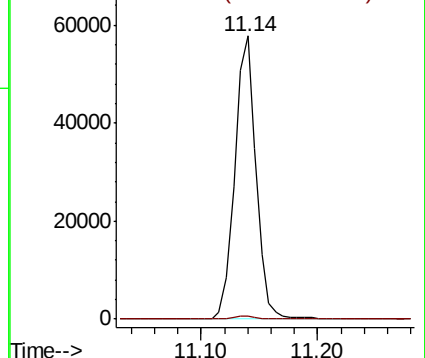
75 100

77 1.5 21.4 64.3#



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: 56.832 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005149.D

Acq: 09 Oct 2018 01:50

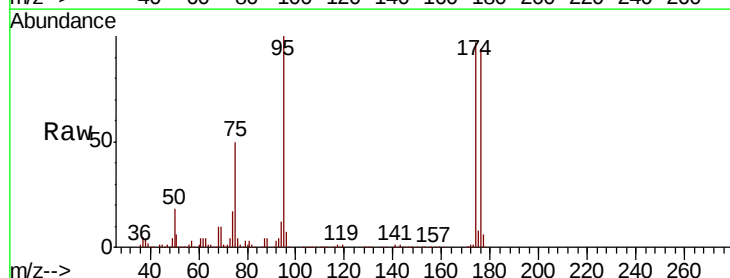
Tgt Ion: 75 Resp: 73458

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.4#

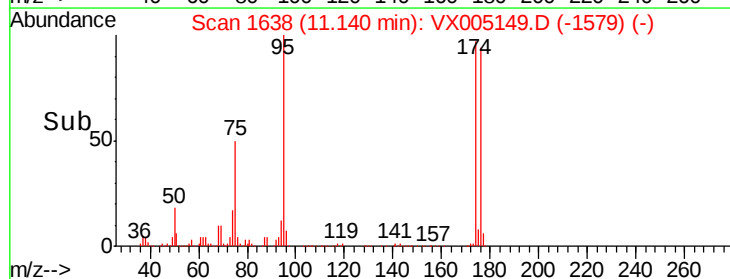
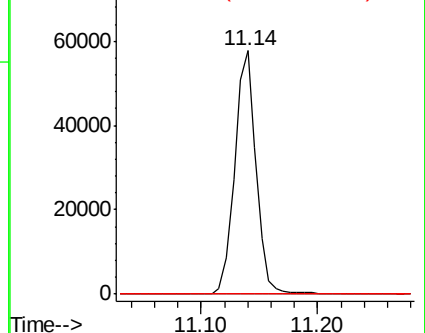
89 0.0 37.1 55.7#

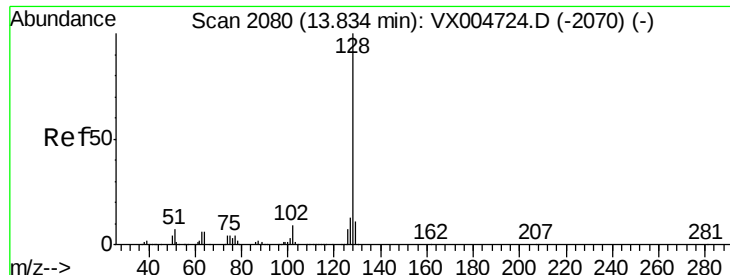


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.745 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005149.D

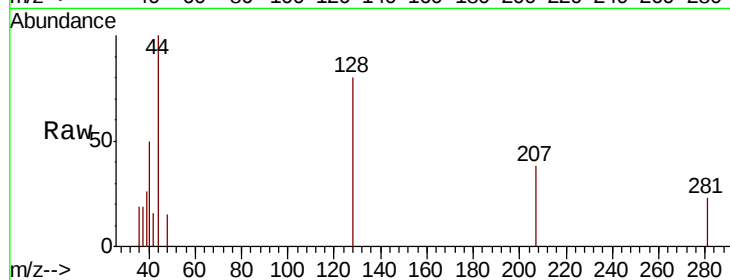
Acq: 09 Oct 2018 01:50

Instrument :

MSVOA_X

ClientSampleId :

RE-131D3-20180927DL



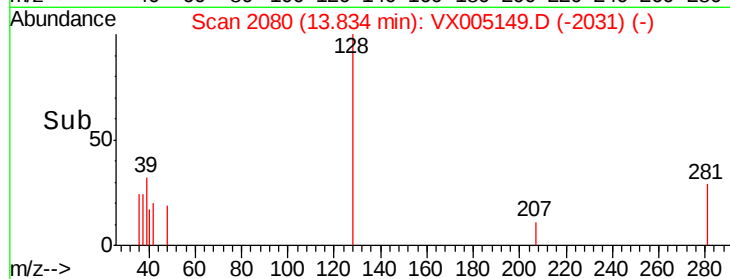
Tot Ion:128 Resp: 337

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

