

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102918\
 Data File : VX005666.D
 Acq On : 29 Oct 2018 17:51
 Operator : JC/MD
 Sample : J5703-01
 Misc : 5.07µ/10mL/100µL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRENCH-01-BASE

Quant Time: Oct 30 02:00:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	244332	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	356902	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	309448	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	207159	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	145603	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
35) Dibromofluoromethane	5.51	113	110985	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	
50) Toluene-d8	8.71	98	416478	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	
62) 4-Bromofluorobenzene	11.14	95	156138	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	

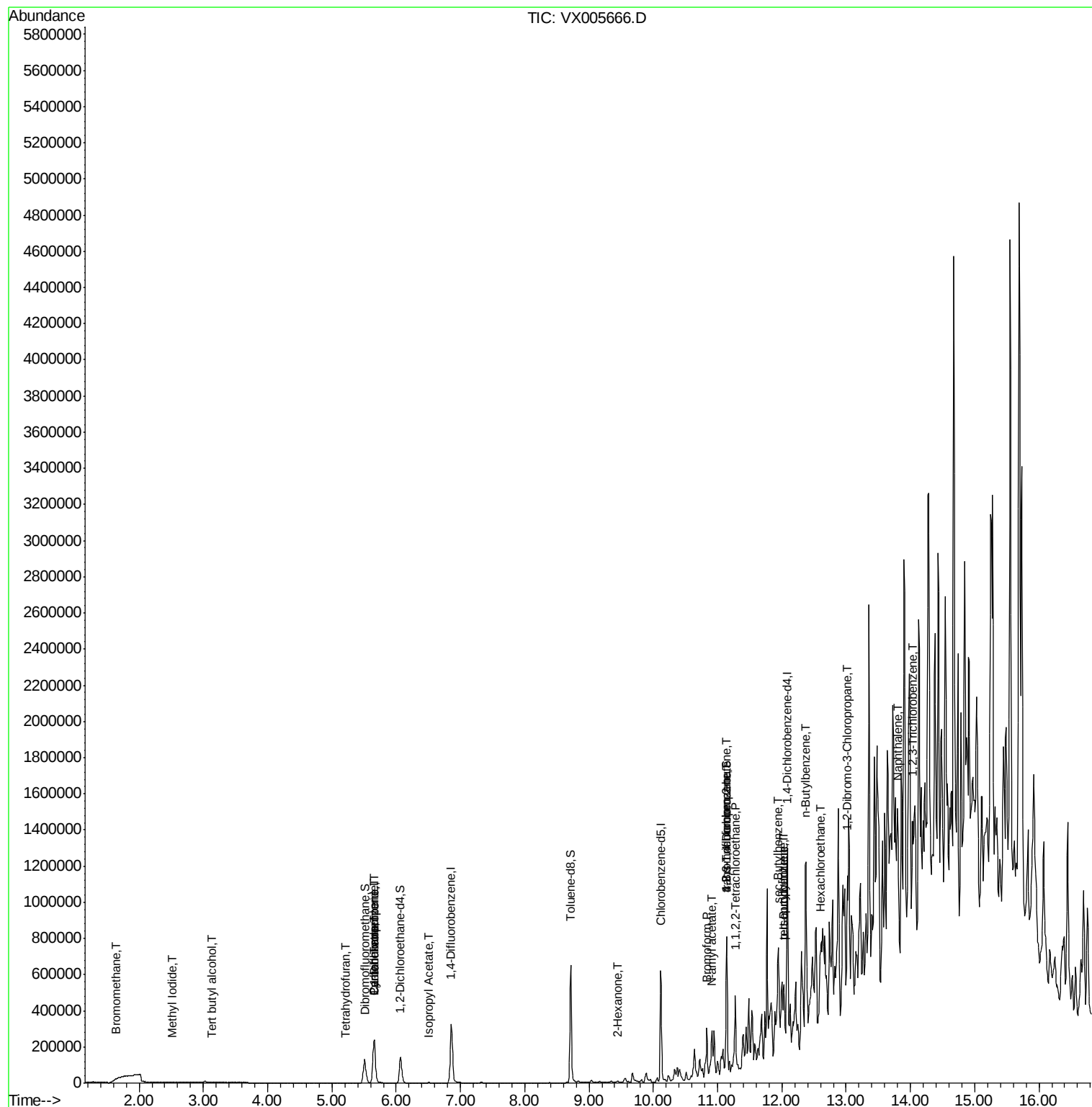
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	840	0.447	ug/l	97
10) Methyl Iodide	2.51	142	24	2.734	ug/l #	2
11) Tert butyl alcohol	3.13	59	252	0.314	ug/l #	92
18) Methyl Acetate	2.78	43	35	Below Cal	#	55
29) Tetrahydrofuran	5.21	42	2317	1.484	ug/l #	89
31) Cyclohexane	5.67	56	4467	1.111	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16279	4.700	ug/l #	49
38) Carbon Tetrachloride	5.65	117	22433	6.149	ug/l #	17
43) Isopropyl Acetate	6.50	43	1862	0.281	ug/l #	63
59) 2-Hexanone	9.44	43	2658	0.757	ug/l #	31
71) Bromoform	10.83	173	429	0.200	ug/l #	28
74) N-amyl acetate	10.91	43	38624	6.156	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.27	83	28159	6.027	ug/l #	36
76) 1,2,3-Trichloropropane	11.14	75	76730	17.481	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	76730	57.121	ug/l #	11
83) tert-Butylbenzene	12.02	119	20016	1.854	ug/l	72
85) sec-Butylbenzene	11.95	105	26815	2.081	ug/l	98
86) p-Isopropyltoluene	12.02	119	20583	1.787	ug/l	92
89) n-Butylbenzene	12.37	91	27105	2.607	ug/l #	20
90) Hexachloroethane	12.59	117	6589	3.317	ug/l #	2
92) 1,2-Dibromo-3-Chloropropan	13.02	75	2050	1.815	ug/l #	1
95) Naphthalene	13.81	128	19145	1.353	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.04	180	10786	2.186	ug/l #	1

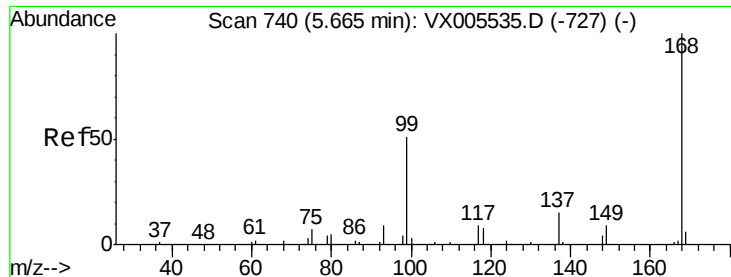
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102918\
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Misc : 5.07µ/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TRENCH-01-BASE

Quant Time: Oct 30 02:00:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 25 02:52:45 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005666.D

Acq: 29 Oct 2018 17:51

Instrument :

MSVOA_X

ClientSampleId :

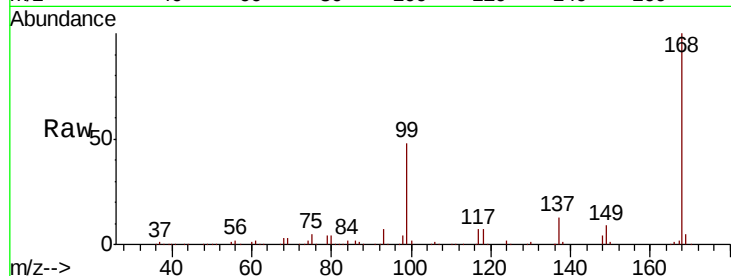
TRENCH-01-BASE

Tot Ion:168 Resp: 244332

Ion Ratio Lower Upper

168 100

99 48.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

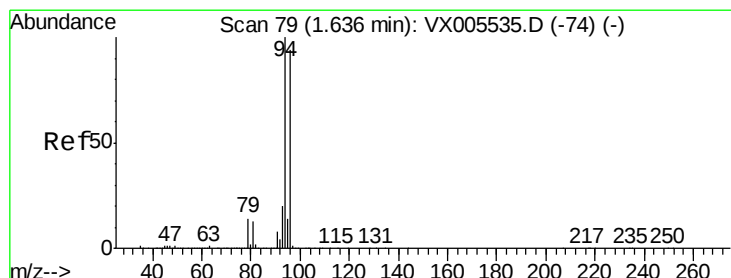
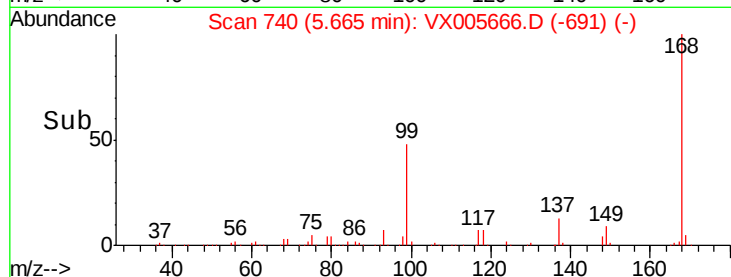
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.447 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX005666.D

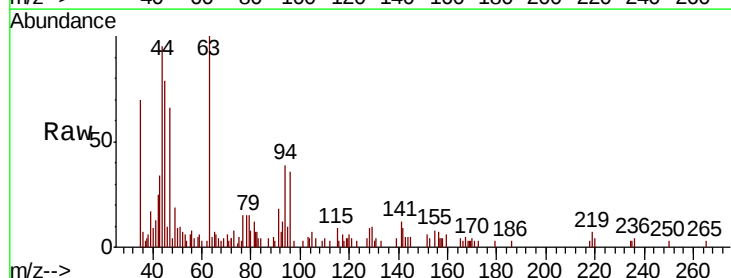
Acq: 29 Oct 2018 17:51

Tgt Ion: 94 Resp: 840

Ion Ratio Lower Upper

94 100

96 91.3 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

600

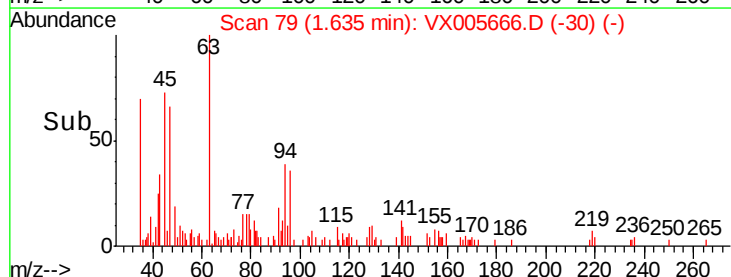
400

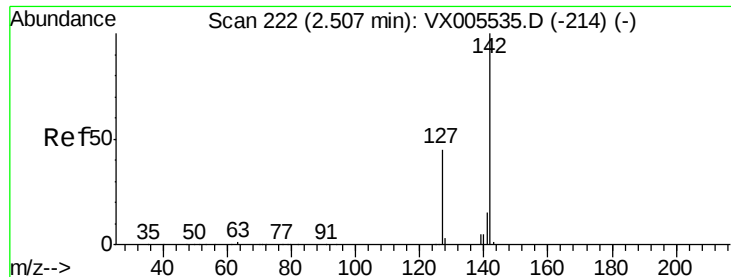
200

0

Time-->

1.60 1.62 1.64 1.66

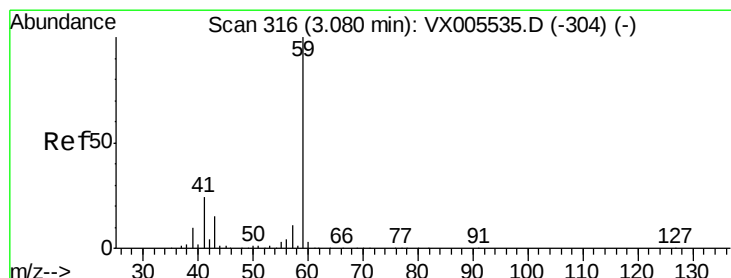
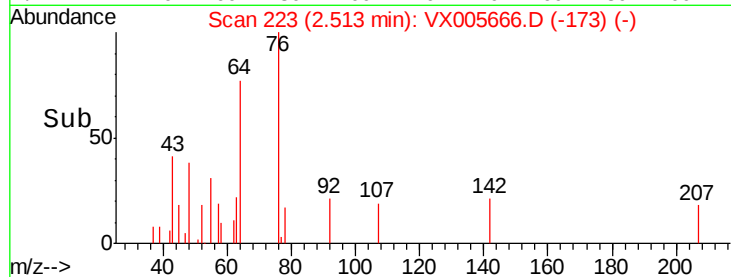
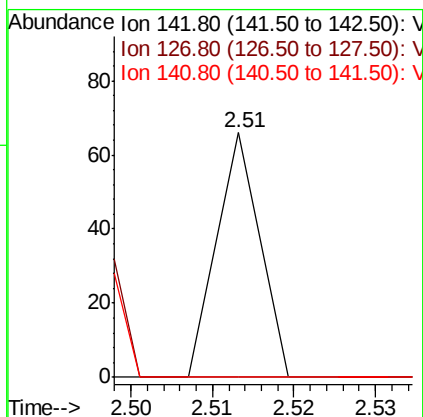
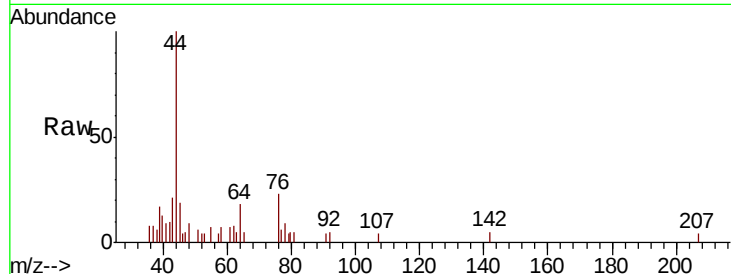




#10
Methyl Iodide
Concen: 2.734 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

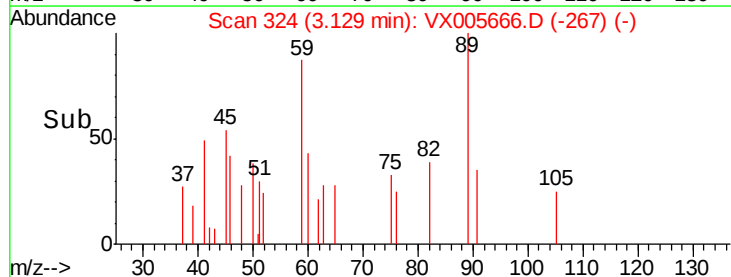
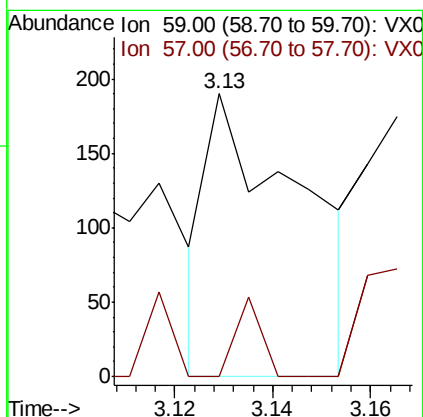
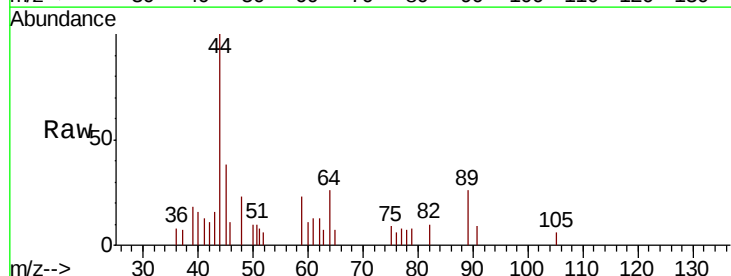
Instrument :
MSVOA_X
ClientSampleId :
TRENCH-01-BASE

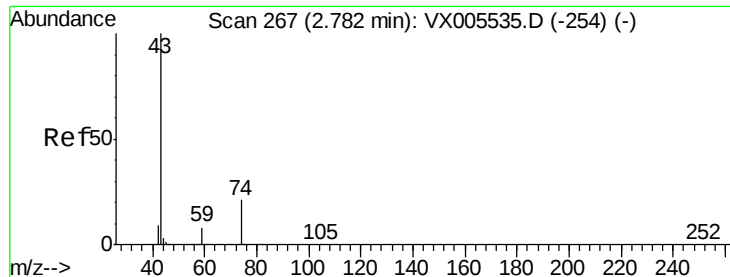
Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	36.0	54.0#
141	91.7	11.7	17.5#



#11
Tert butyl alcohol
Concen: 0.314 ug/l
RT: 3.13 min Scan# 324
Delta R.T. 0.05 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

Tgt Ion	Ratio	Lower	Upper
59	100		
57	7.5	8.5	12.7#

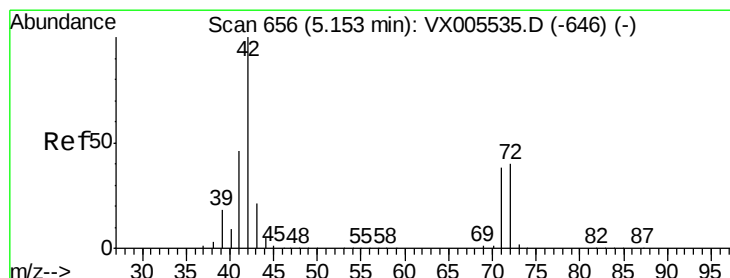
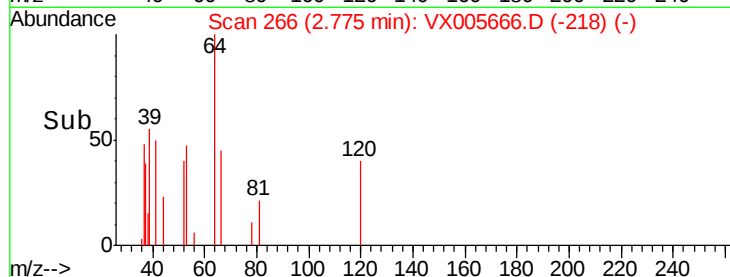
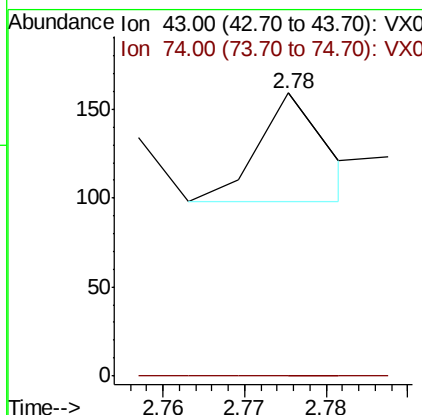
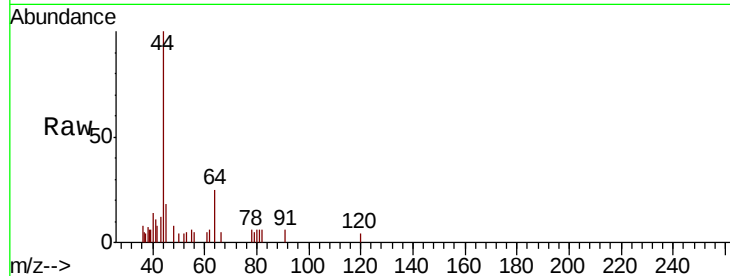




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

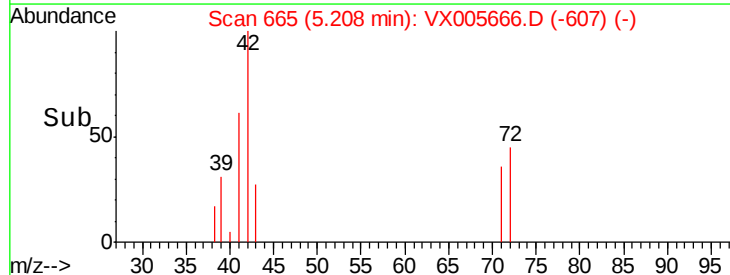
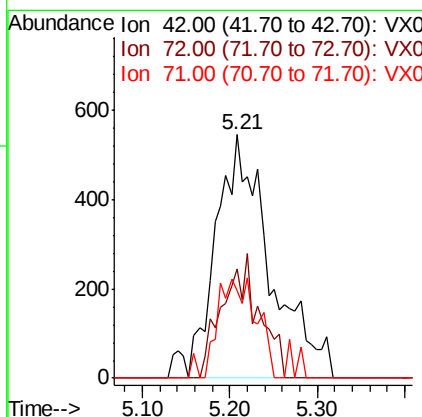
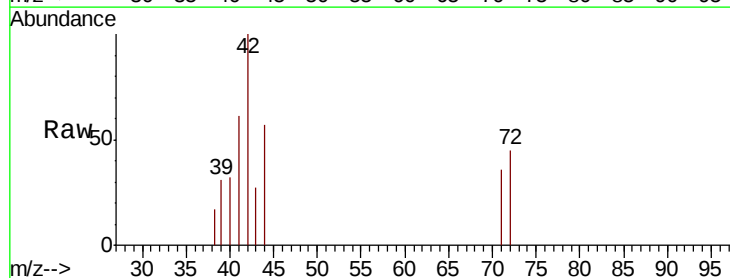
Instrument :
MSVOA_X
ClientSampleId :
TRENCH-01-BASE

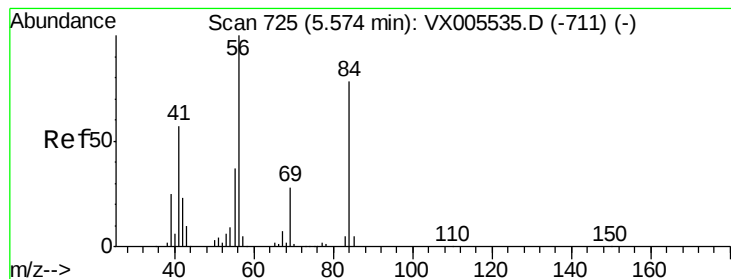
Tot Ion: 43 Resp: 35
Ion Ratio Lower Upper
43 100
74 0.0 16.8 25.2#



#29
Tetrahydrofuran
Concen: 1.484 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.05 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

Tgt Ion: 42 Resp: 2317
Ion Ratio Lower Upper
42 100
72 35.1 32.0 48.0
71 29.0 29.8 44.8#





#31

Cyclohexane

Concen: 1.111 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005666.D

Acq: 29 Oct 2018 17:51

Instrument :

MSVOA_X

ClientSampleId :

TRENCH-01-BASE

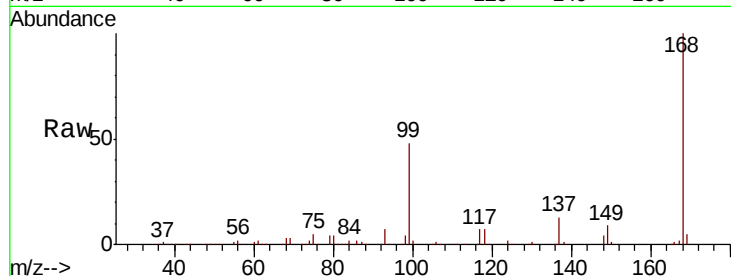
Tot Ion: 56 Resp: 4467

Ion Ratio Lower Upper

56 100

69 165.5 22.6 34.0#

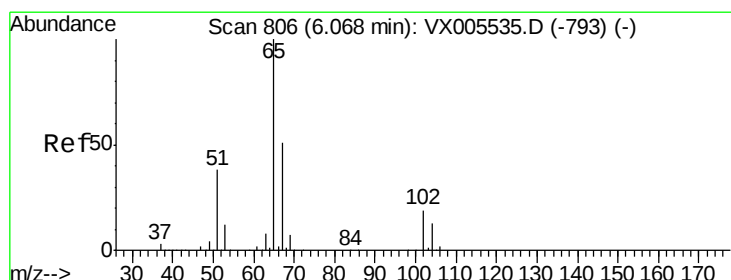
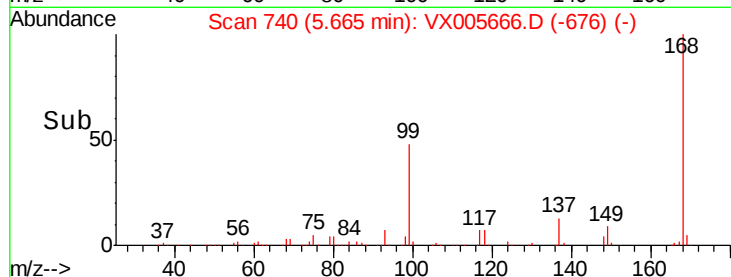
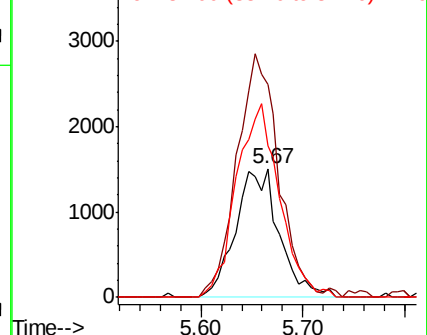
84 117.3 62.7 94.1#



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: 48.818 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005666.D

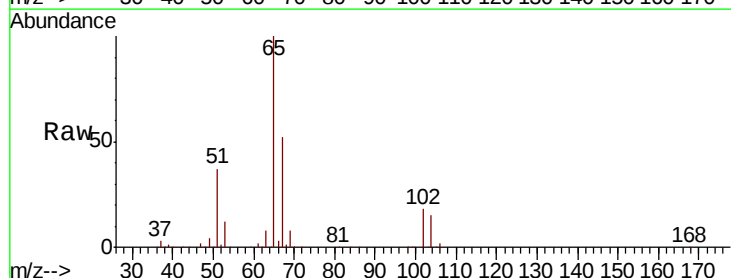
Acq: 29 Oct 2018 17:51

Tgt Ion: 65 Resp: 145603

Ion Ratio Lower Upper

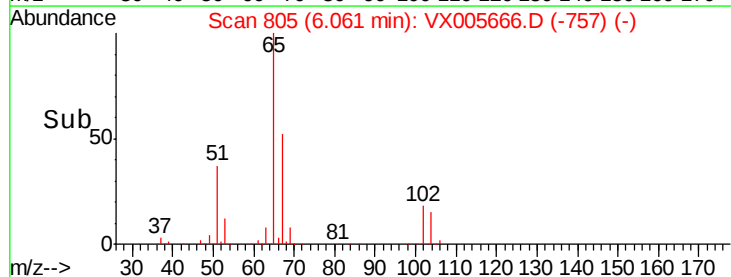
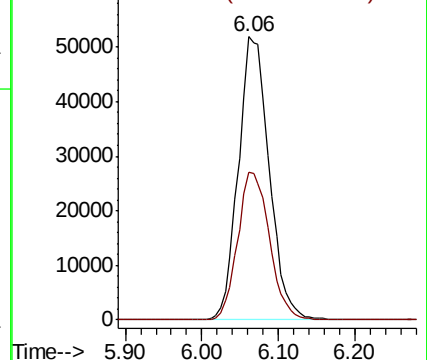
65 100

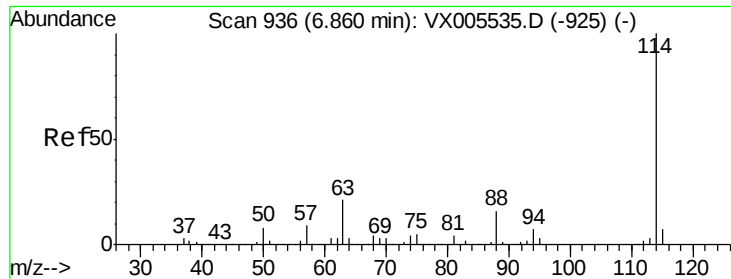
67 53.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

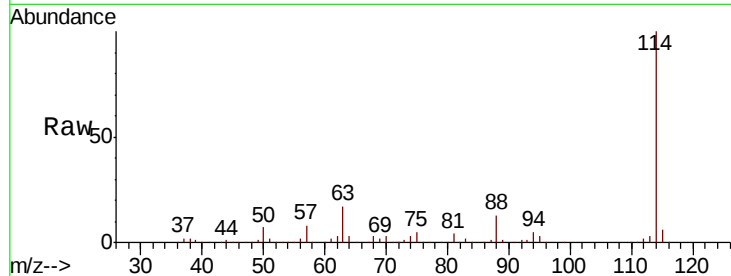




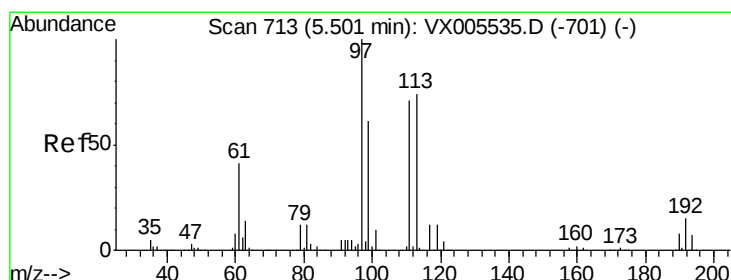
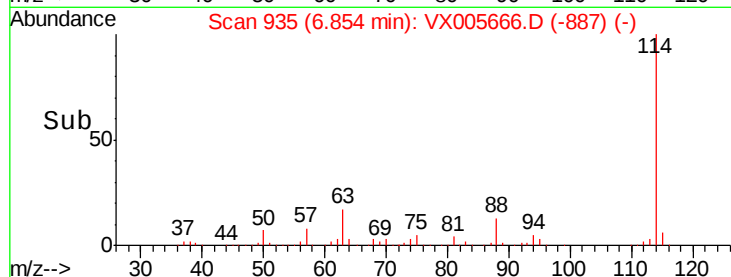
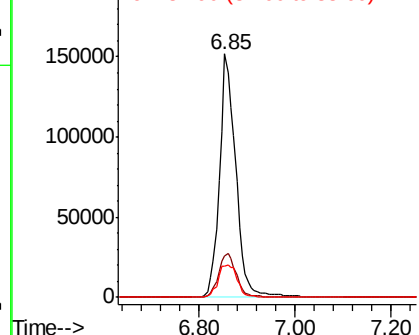
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX005666.D
 Acq: 29 Oct 2018 17:51

Instrument :
 MSVOA_X
 ClientSampleId :
 TRENCH-01-BASE

Tot Ion:114 Resp: 356902
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 42.8
 88 13.0 0.0 31.2

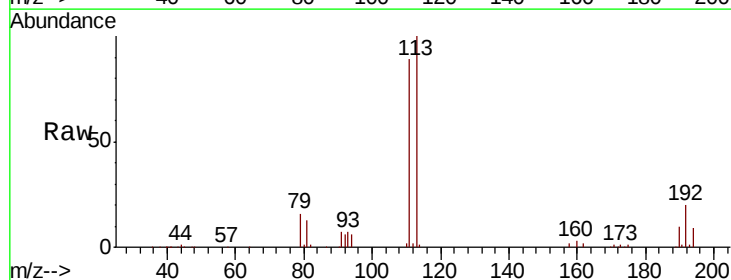


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

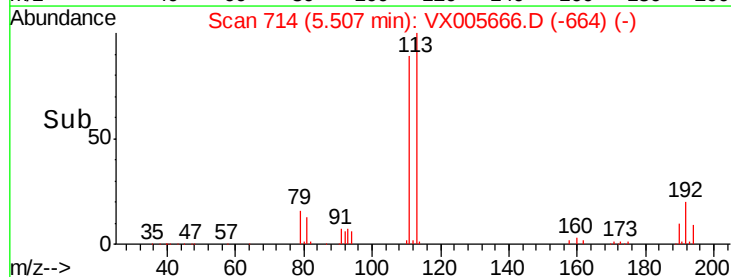
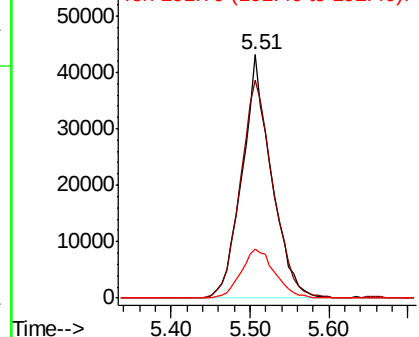


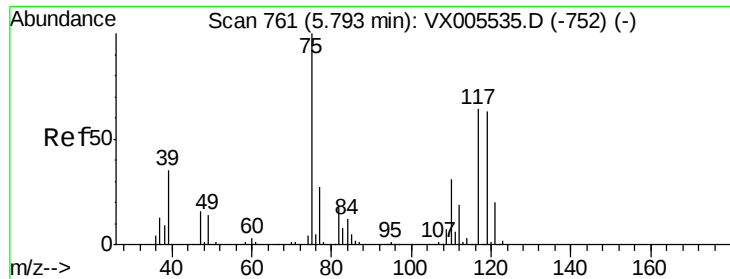
#35
 Dibromofluoromethane
 Concen: 45.925 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005666.D
 Acq: 29 Oct 2018 17:51

Tgt Ion:113 Resp: 110985
 Ion Ratio Lower Upper
 113 100
 111 99.9 82.3 123.5
 192 23.2 17.9 26.9



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

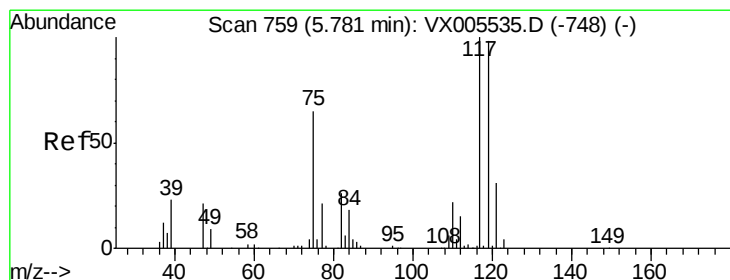
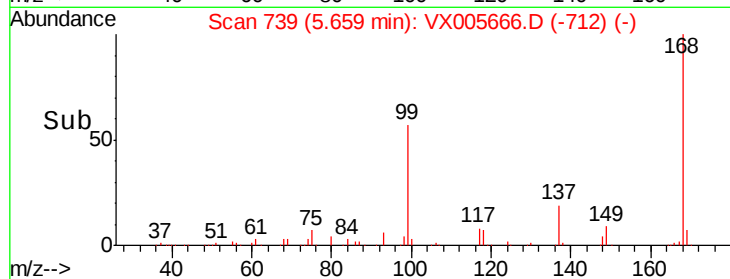
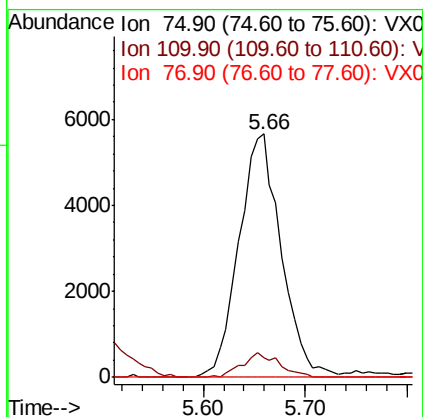
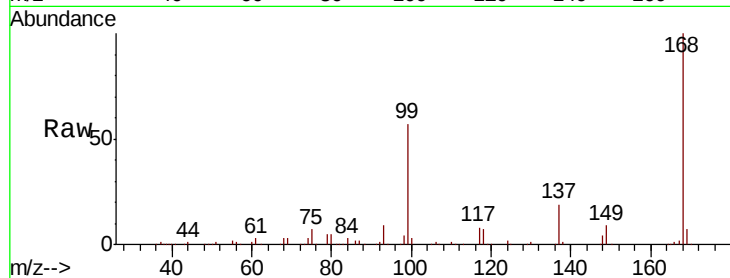




#36
 1,1-Dichloropropene
 Concen: 4.700 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX005666.D
 Acq: 29 Oct 2018 17:51

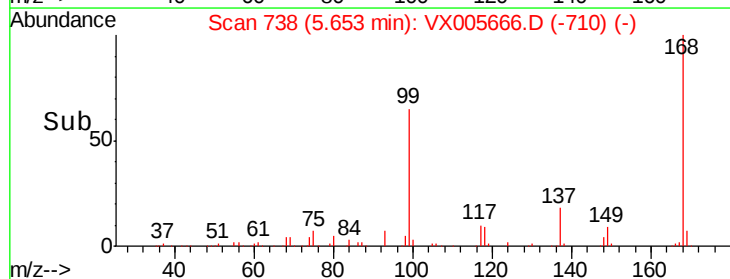
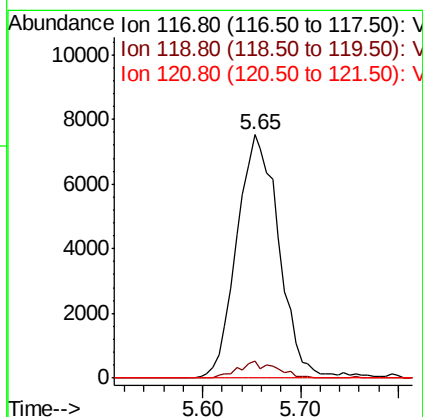
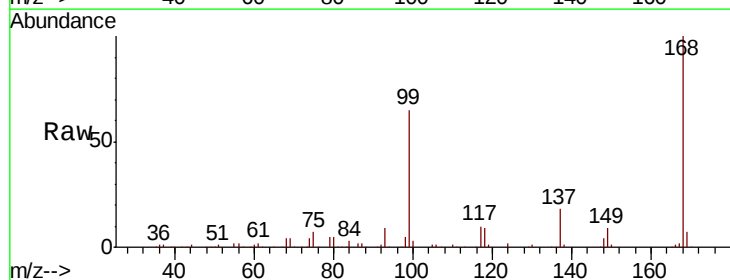
Instrument :
 MSVOA_X
 ClientSampleId :
 TRENCH-01-BASE

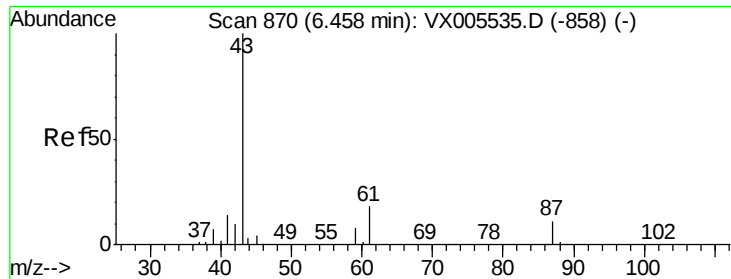
Tot Ion: 75 Resp: 16279
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.4 52.2#
 77 0.0 25.8 38.6#



#38
 Carbon Tetrachloride
 Concen: 6.149 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX005666.D
 Acq: 29 Oct 2018 17:51

Tgt Ion: 117 Resp: 22433
 Ion Ratio Lower Upper
 117 100
 119 7.0 78.1 117.1#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 0.281 ug/l

RT: 6.50 min Scan# 877

Delta R.T. 0.04 min

Lab File: VX005666.D

Acq: 29 Oct 2018 17:51

Instrument :

MSVOA_X

ClientSampleId :

TRENCH-01-BASE

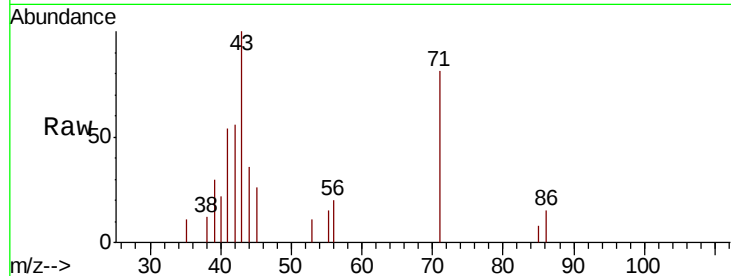
Tot Ion: 43 Resp: 1862

Ion Ratio Lower Upper

43 100

61 0.0 14.6 22.0#

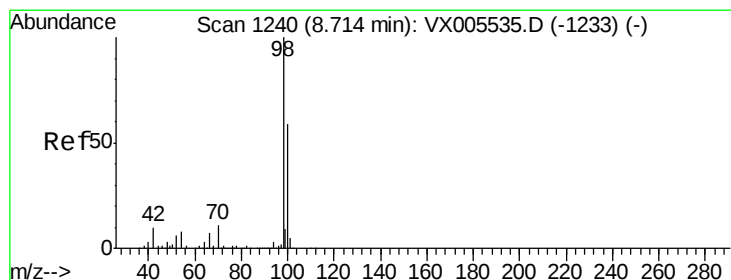
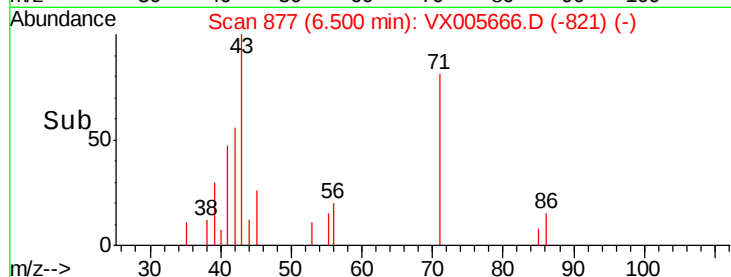
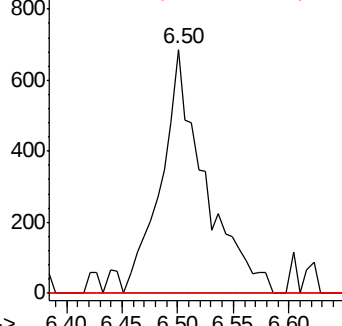
87 0.0 9.6 14.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 47.962 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005666.D

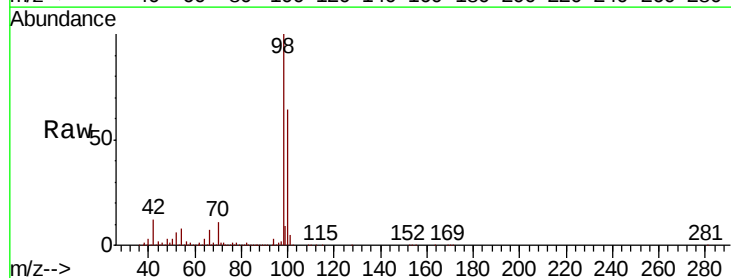
Acq: 29 Oct 2018 17:51

Tgt Ion: 98 Resp: 416478

Ion Ratio Lower Upper

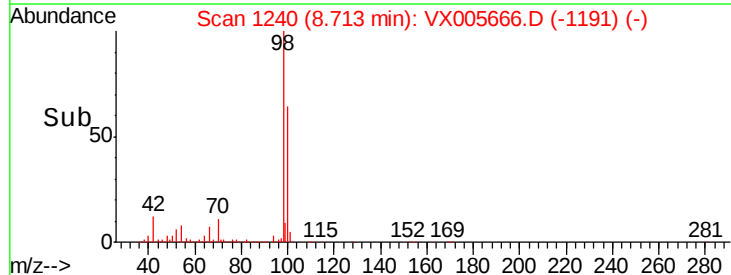
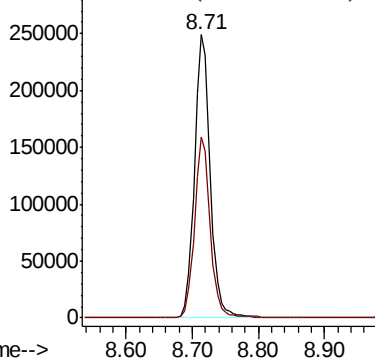
98 100

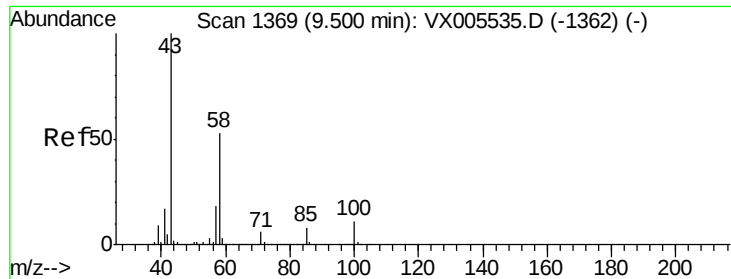
100 63.4 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

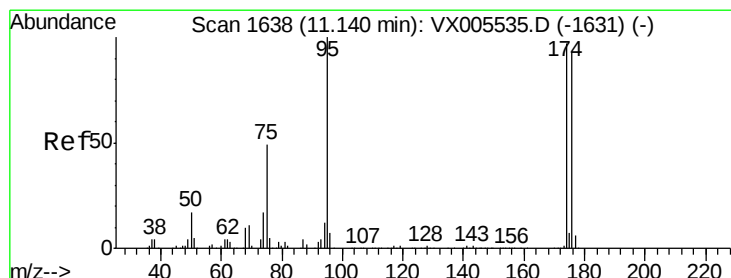
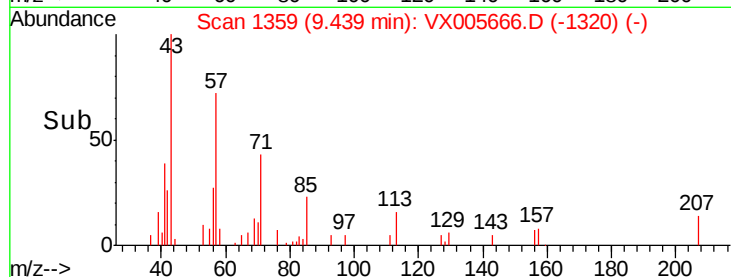
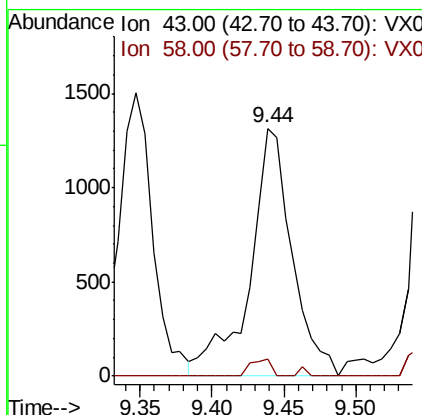
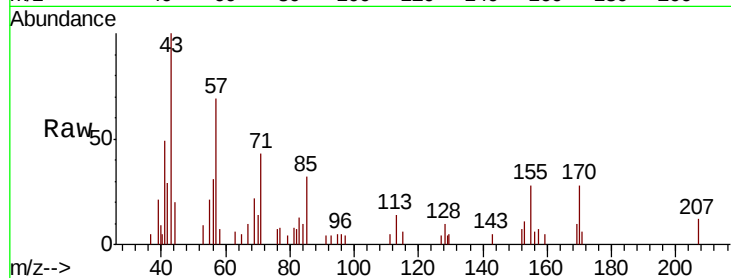




#59
2-Hexanone
Concen: 0.757 ug/l
RT: 9.44 min Scan# 1359
Delta R.T. -0.06 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

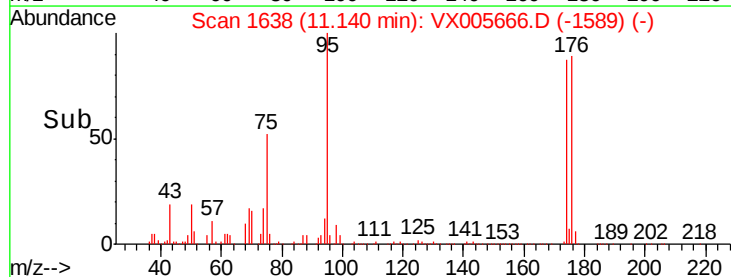
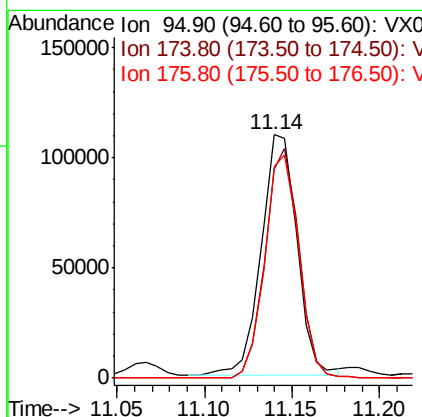
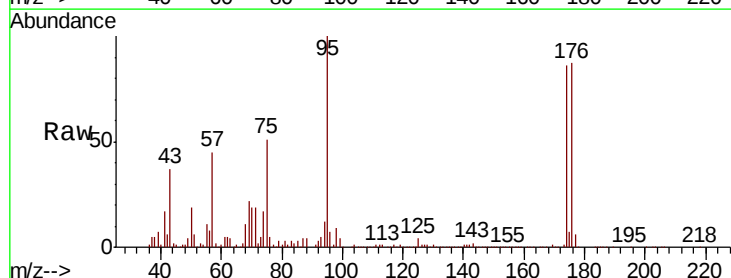
Instrument :
MSVOA_X
ClientSampleId :
TRENCH-01-BASE

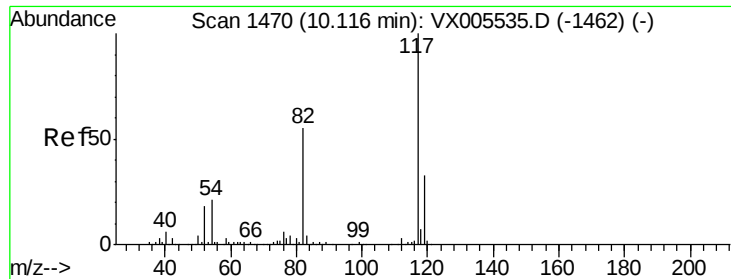
Tot Ion: 43 Resp: 2658
Ion Ratio Lower Upper
43 100
58 3.3 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 47.613 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

Tgt Ion: 95 Resp: 156138
Ion Ratio Lower Upper
95 100
174 90.2 0.0 184.4
176 88.8 0.0 177.4

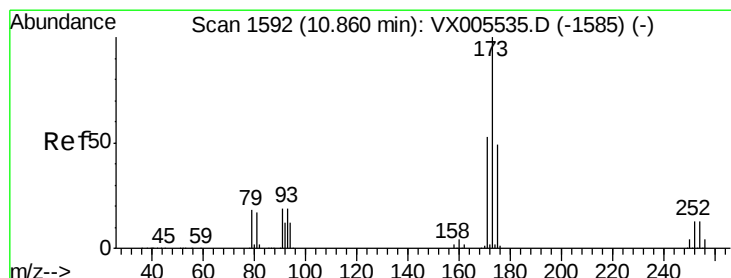
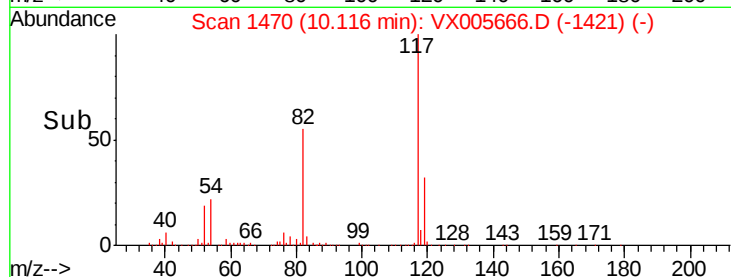
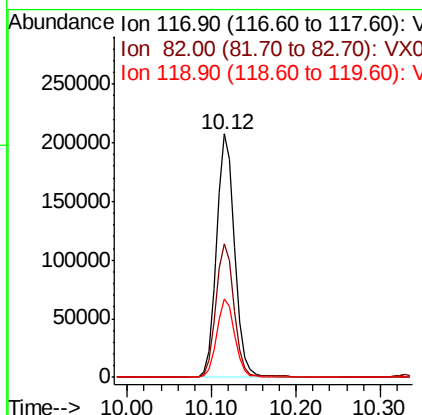
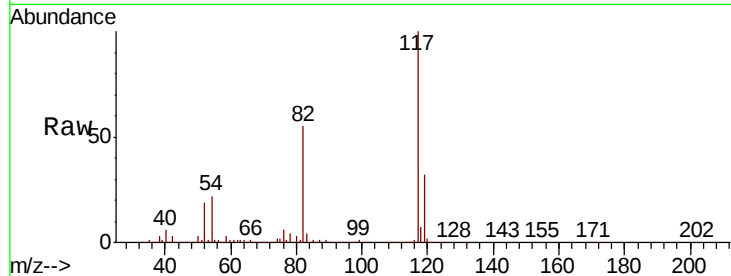




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

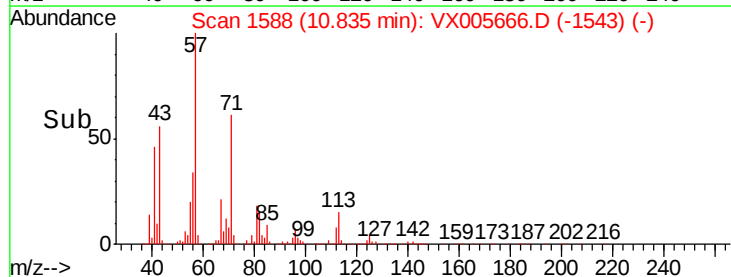
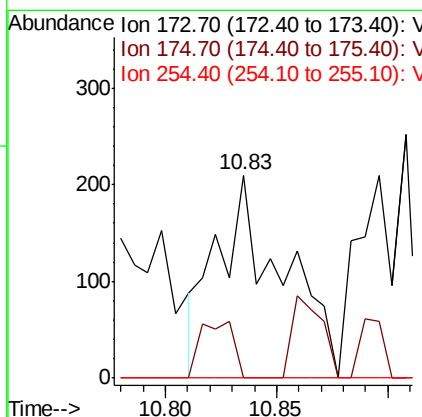
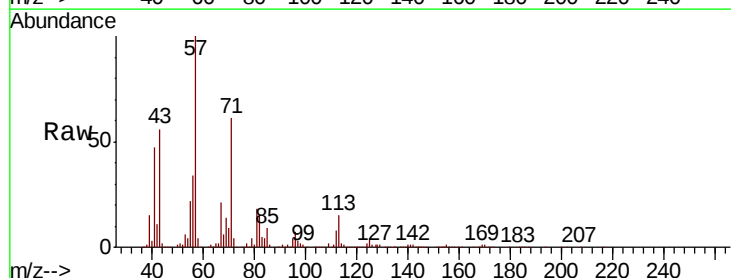
Instrument :
MSVOA_X
ClientSampleId :
TRENCH-01-BASE

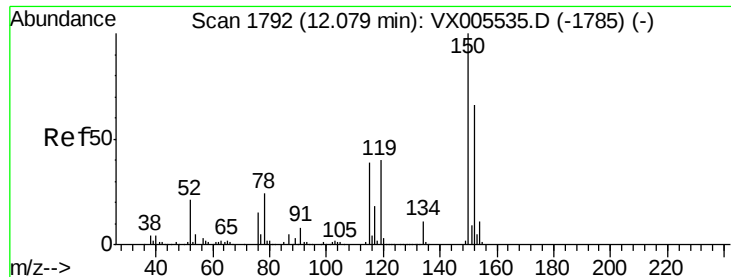
Tot Ion:117 Resp: 309448
Ion Ratio Lower Upper
117 100
82 54.4 44.1 66.1
119 32.0 26.2 39.2



#71
Bromoform
Concen: 0.200 ug/l
RT: 10.83 min Scan# 1588
Delta R.T. -0.02 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

Tgt Ion:173 Resp: 429
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1793

Delta R.T. 0.01 min

Lab File: VX005666.D

Acq: 29 Oct 2018 17:51

Instrument :

MSVOA_X

ClientSampleId :

TRENCH-01-BASE

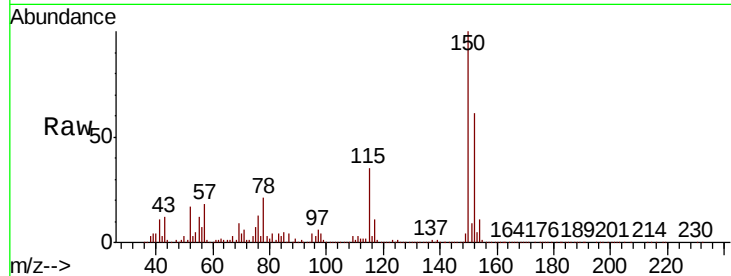
Tot Ion:152 Resp: 207159

Ion Ratio Lower Upper

152 100

115 55.3 39.4 118.1

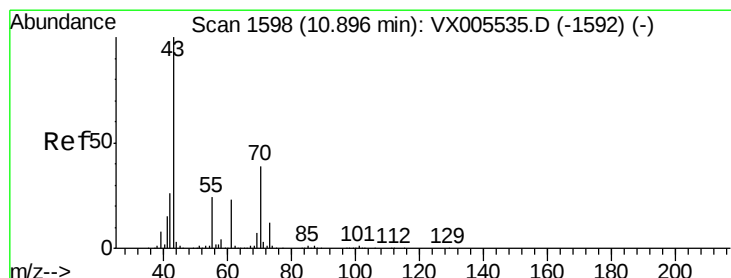
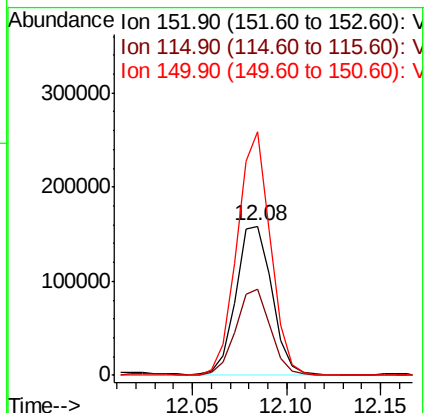
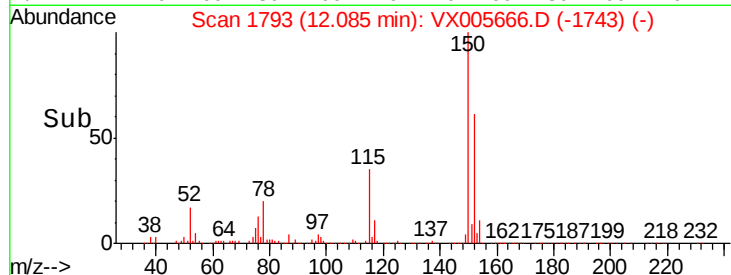
150 153.1 0.0 346.4



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



#74

N-ethyl acetate

Concen: 6.156 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005666.D

Acq: 29 Oct 2018 17:51

Tgt Ion: 43 Resp: 38624

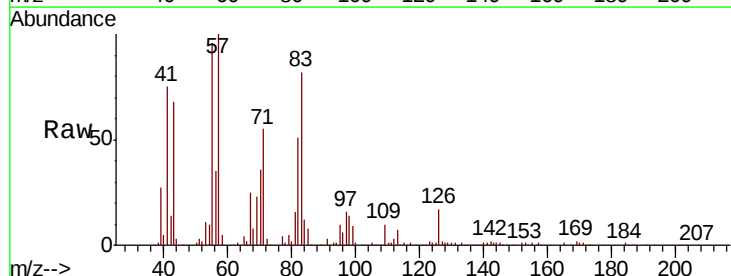
Ion Ratio Lower Upper

43 100

70 73.0 31.6 47.4#

55 137.3 19.7 29.5#

61 0.0 18.3 27.5#

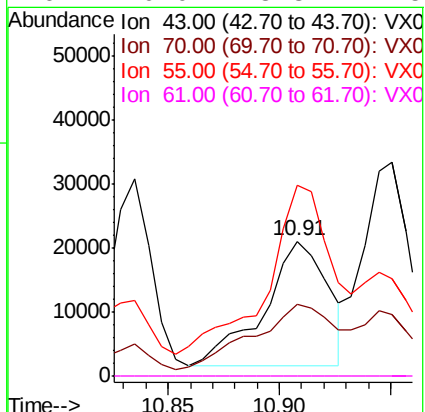
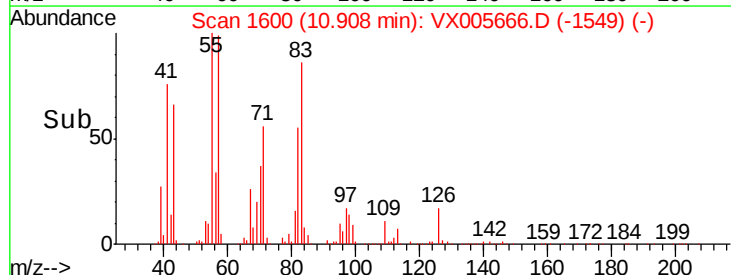


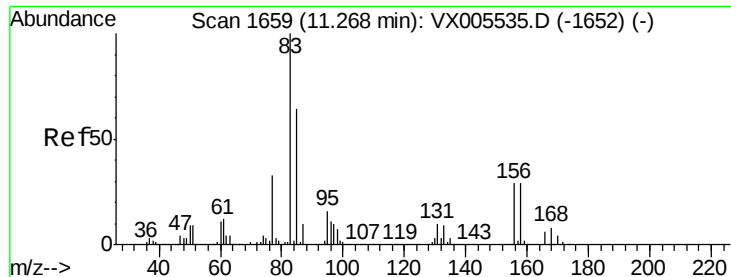
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 6.027 ug/l

RT: 11.27 min Scan# 1660

Delta R.T. 0.01 min

Lab File: VX005666.D

Acq: 29 Oct 2018 17:51

Instrument :

MSVOA_X

ClientSampleId :

TRENCH-01-BASE

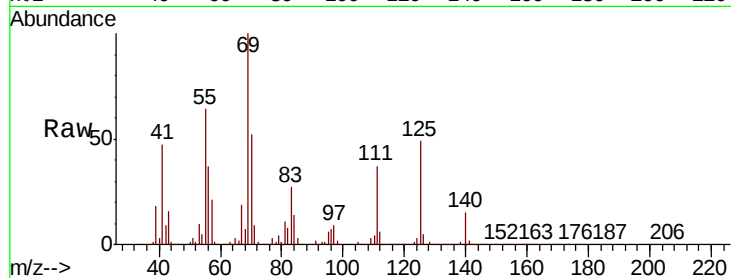
Tot Ion: 83 Resp: 28159

Ion Ratio Lower Upper

83 100

131 0.5 5.3 15.9#

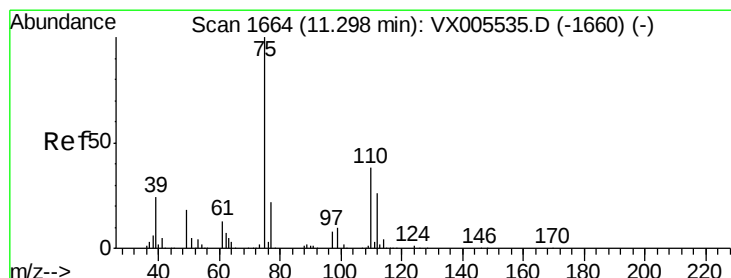
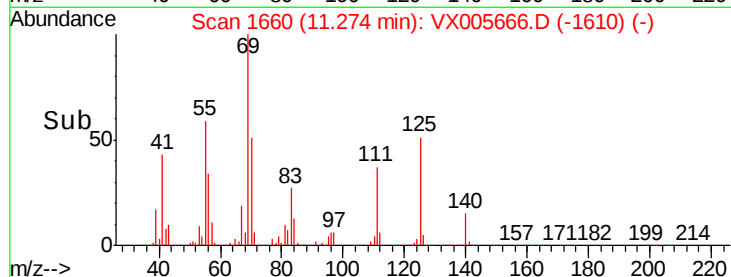
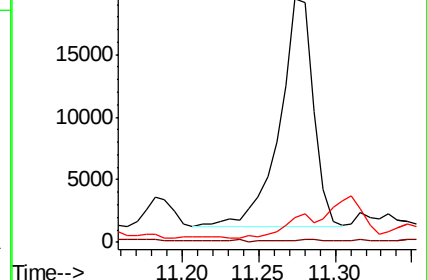
85 9.5 32.0 96.2#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 17.481 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005666.D

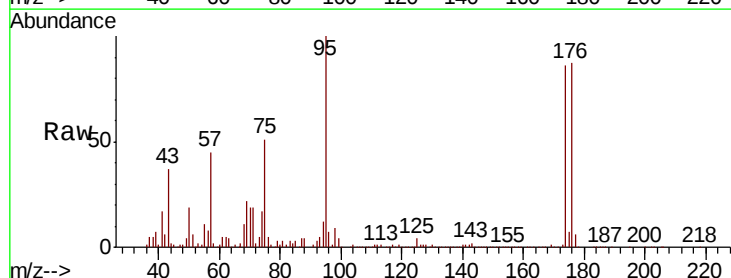
Acq: 29 Oct 2018 17:51

Tgt Ion: 75 Resp: 76730

Ion Ratio Lower Upper

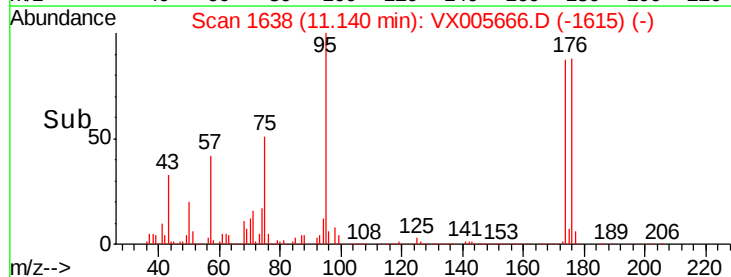
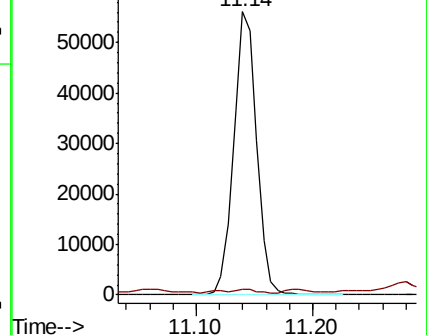
75 100

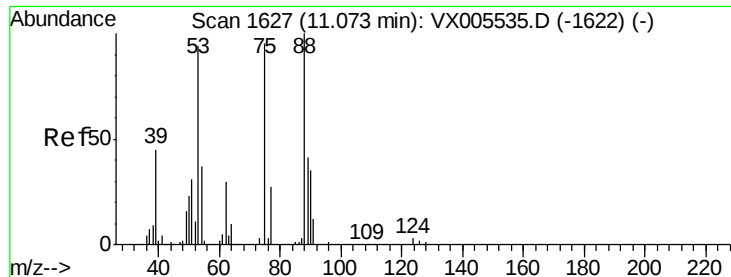
77 1.8 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

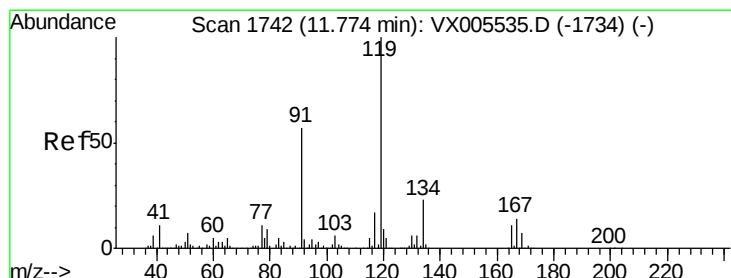
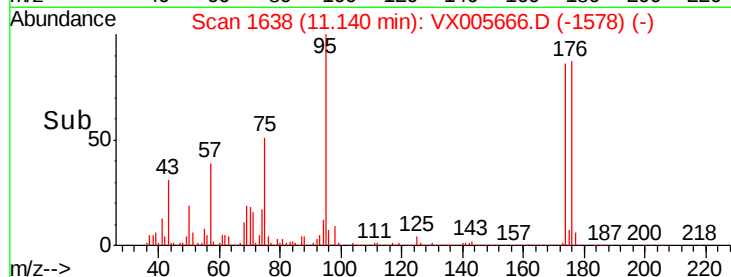
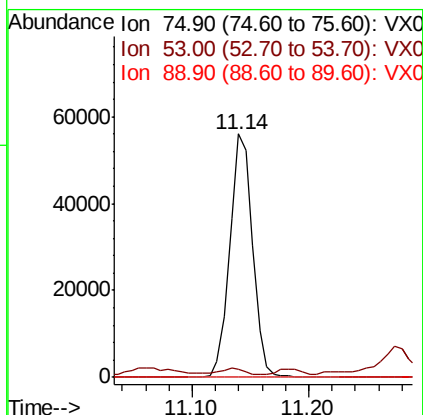
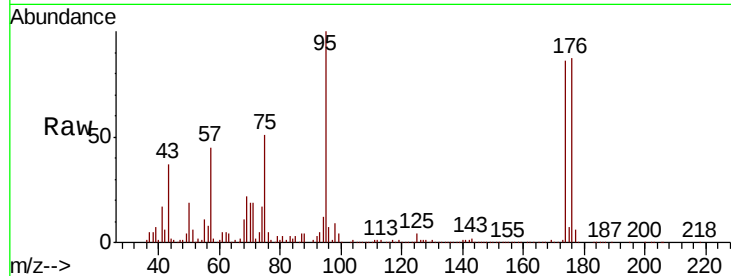




#81
trans-1,4-Dichloro-2-butene
Concen: 57.121 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.07 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

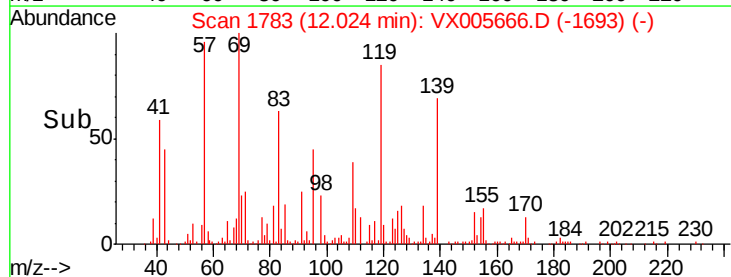
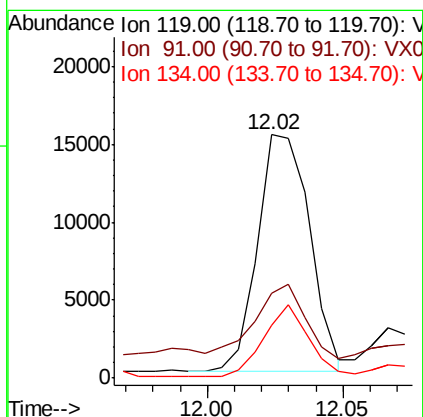
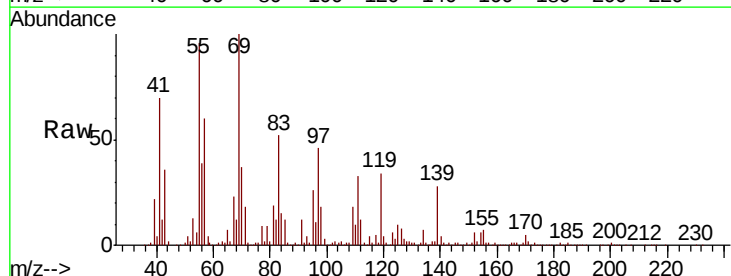
Instrument :
MSVOA_X
ClientSampleId :
TRENCH-01-BASE

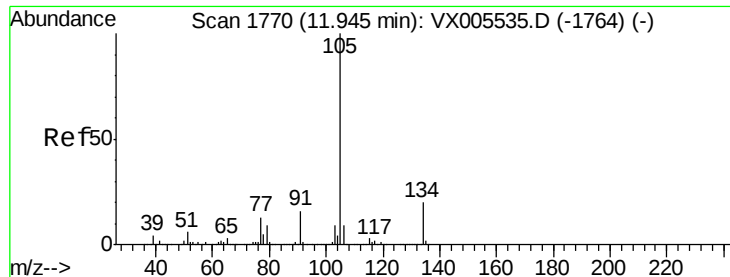
Tot Ion: 75 Resp: 76730
Ion Ratio Lower Upper
75 100
53 2.8 80.2 120.2#
89 0.2 39.8 59.8#



#83
tert-Butylbenzene
Concen: 1.854 ug/l
RT: 12.02 min Scan# 1783
Delta R.T. 0.25 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

Tgt Ion: 119 Resp: 20016
Ion Ratio Lower Upper
119 100
91 30.7 28.5 85.5
134 26.5 11.3 33.8





#85

sec-Butylbenzene

Concen: 2.081 ug/l

RT: 11.95 min Scan# 1771

Delta R.T. 0.01 min

Lab File: VX005666.D

Acq: 29 Oct 2018 17:51

Instrument :

MSVOA_X

ClientSampleId :

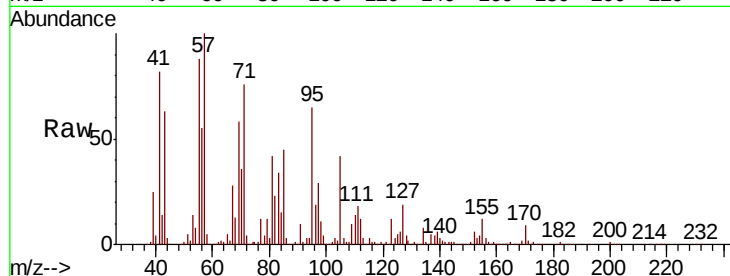
TRENCH-01-BASE

Tot Ion:105 Resp: 26815

Ion Ratio Lower Upper

105 100

134 19.2 10.2 30.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

25000

20000

15000

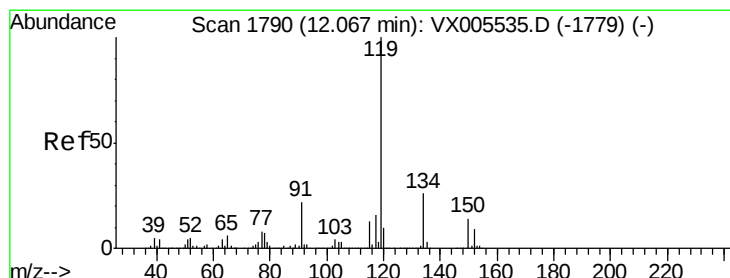
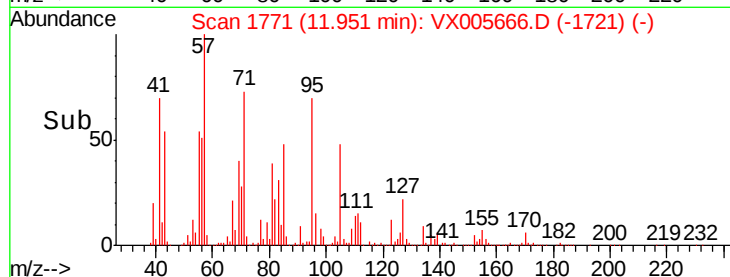
10000

5000

0

11.90 11.95 12.00

Time-->



#86

p-Isopropyltoluene

Concen: 1.787 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.04 min

Lab File: VX005666.D

Acq: 29 Oct 2018 17:51

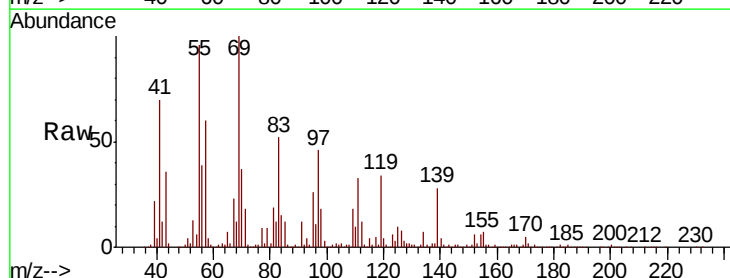
Tgt Ion:119 Resp: 20583

Ion Ratio Lower Upper

119 100

134 27.3 13.0 39.0

91 29.5 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

20000

15000

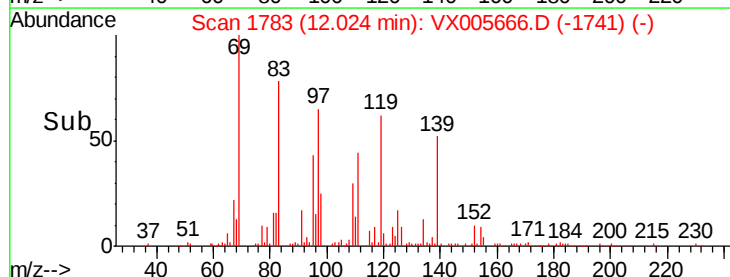
10000

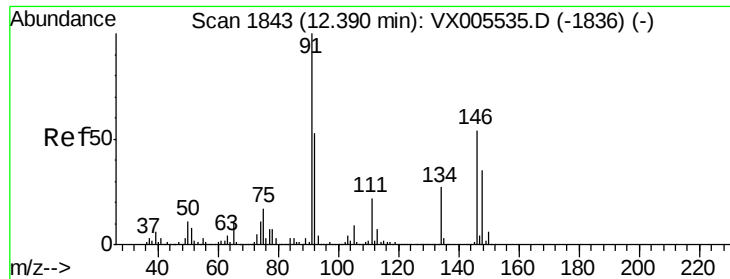
5000

0

11.95 12.00 12.05

Time-->

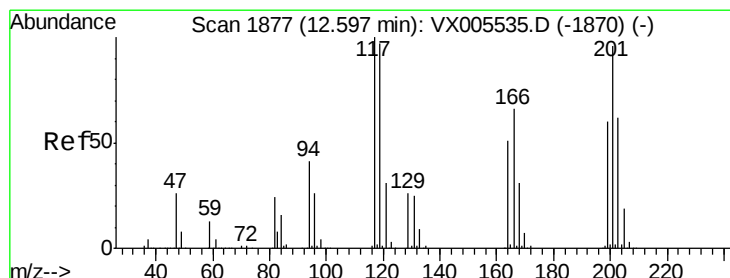
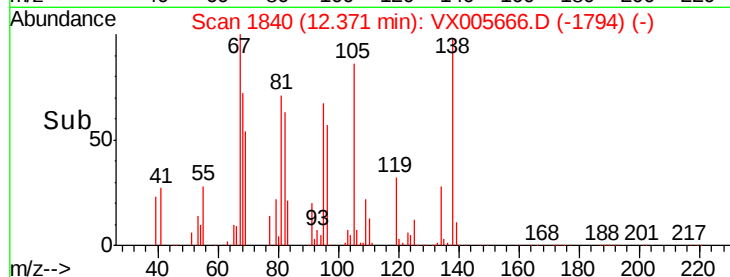
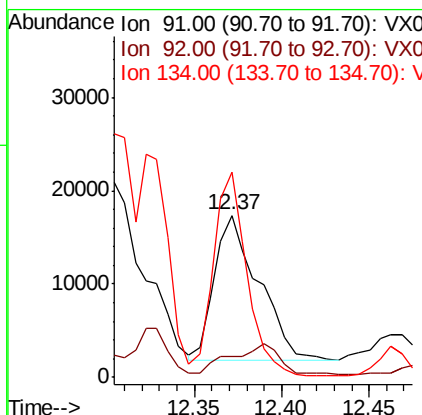
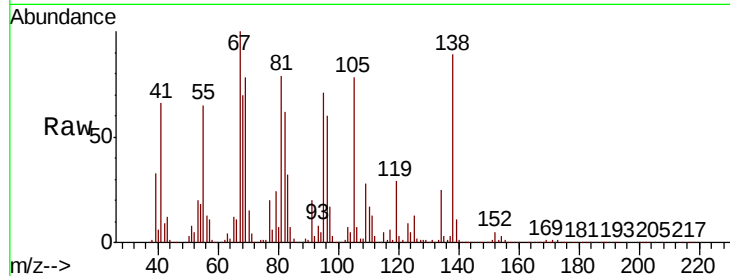




#89
n-Butylbenzene
Concen: 2.607 ug/l
RT: 12.37 min Scan# 1840
Delta R.T. -0.02 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

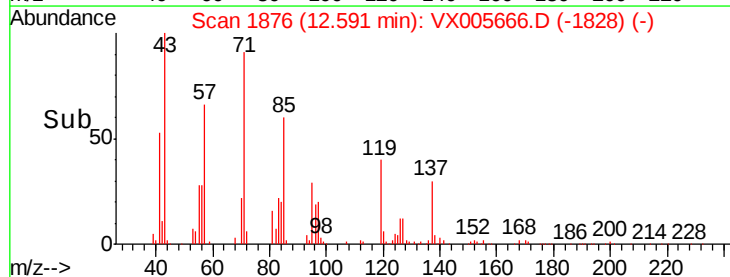
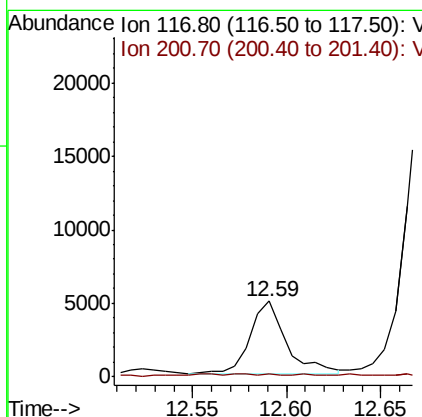
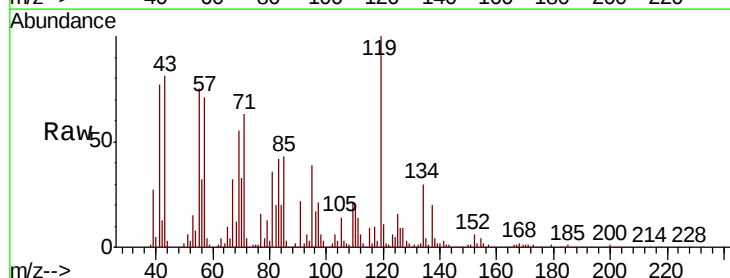
Instrument :
MSVOA_X
ClientSampleId :
TRENCH-01-BASE

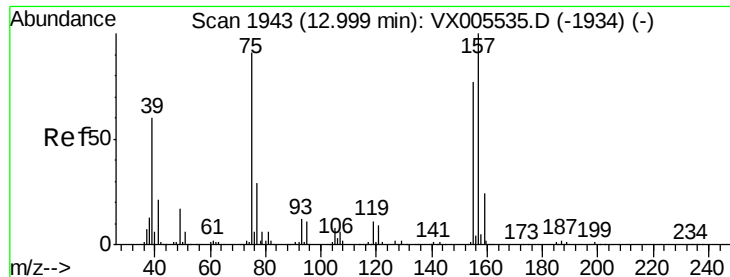
Tot Ion: 91 Resp: 27105
Ion Ratio Lower Upper
91 100
92 23.7 26.1 78.2#
134 107.5 13.1 39.3#



#90
Hexachloroethane
Concen: 3.317 ug/l
RT: 12.59 min Scan# 1876
Delta R.T. -0.01 min
Lab File: VX005666.D
Acq: 29 Oct 2018 17:51

Tgt Ion: 117 Resp: 6589
Ion Ratio Lower Upper
117 100
201 0.0 47.9 143.6#

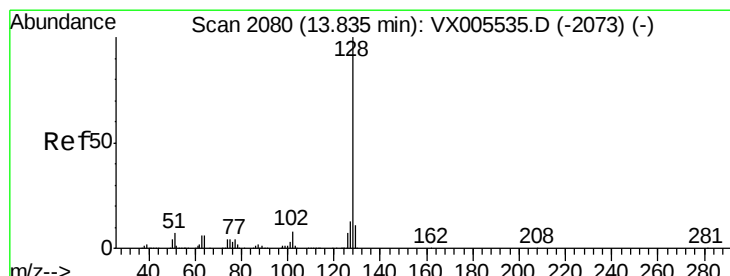
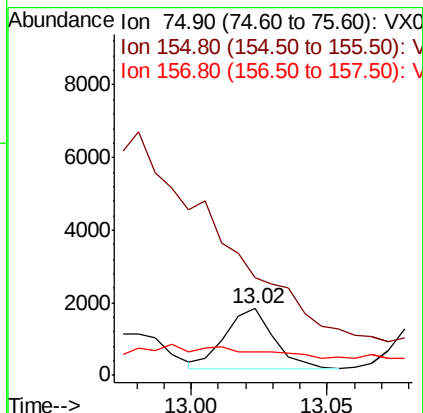
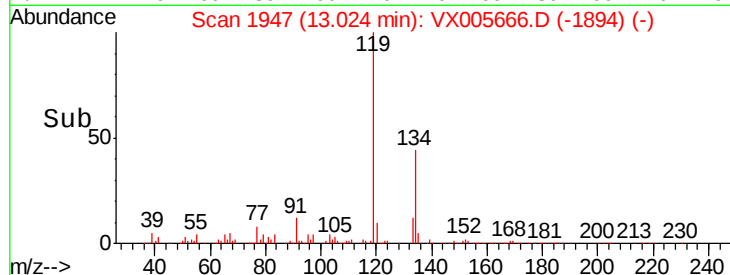
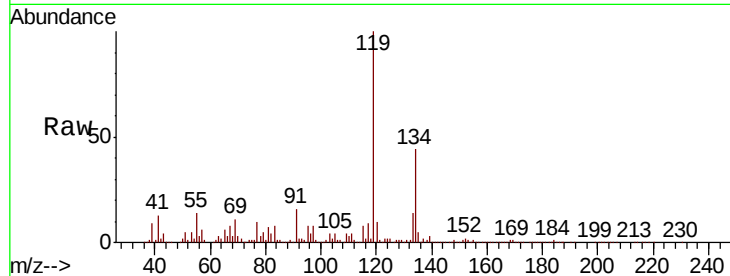




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.815 ug/l
 RT: 13.02 min Scan# 1947
 Delta R.T. 0.02 min
 Lab File: VX005666.D
 Acq: 29 Oct 2018 17:51

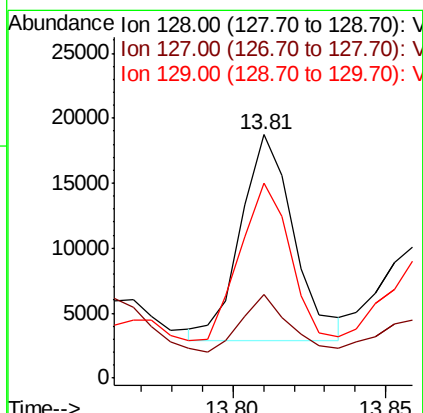
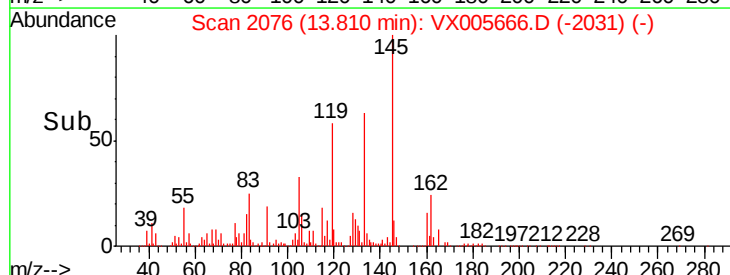
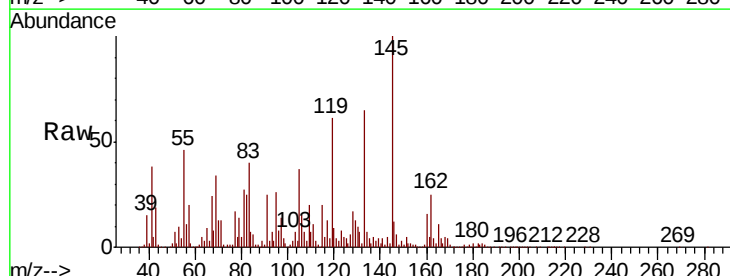
Instrument :
 MSVOA_X
 ClientSampleId :
 TRENCH-01-BASE

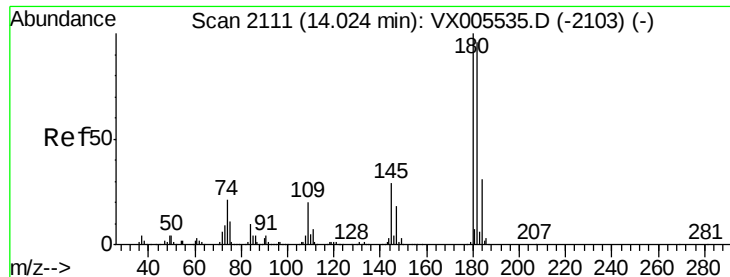
Tot Ion: 75 Resp: 2050
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.4 136.1#
 157 0.0 57.4 172.0#



#95
 Naphthalene
 Concen: 1.353 ug/l
 RT: 13.81 min Scan# 2076
 Delta R.T. -0.02 min
 Lab File: VX005666.D
 Acq: 29 Oct 2018 17:51

Tgt Ion: 128 Resp: 19145
 Ion Ratio Lower Upper
 128 100
 127 29.0 10.4 15.6#
 129 76.3 8.7 13.1#

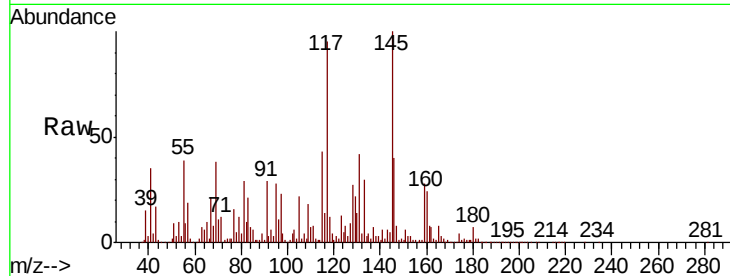




#96
 1,2,3-Trichlorobenzene
 Concen: 2.186 ug/l
 RT: 14.04 min Scan# 2113
 Delta R.T. 0.01 min
 Lab File: VX005666.D
 Acq: 29 Oct 2018 17:51

Instrument :
 MSVOA_X
 ClientSampleId :
 TRENCH-01-BASE

Tot Ion:180 Resp: 10786
 Ion Ratio Lower Upper
 180 100
 182 18.6 48.0 144.2#
 145 1325.6 15.1 45.3#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

