

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090718\
 Data File : VX004435.D
 Acq On : 08 Sep 2018 04:32
 Operator : JC/MD
 Sample : J4809-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MS-SLUDGE-V24129

Quant Time: Sep 08 05:00:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	318294	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	525467	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	474107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	285802	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	224067	54.01	ug/l	0.00
Spiked Amount			Recovery	=	108.02%	
35) Dibromofluoromethane	5.50	113	199205	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
50) Toluene-d8	8.71	98	755142	51.18	ug/l	0.00
Spiked Amount			Recovery	=	102.36%	
62) 4-Bromofluorobenzene	11.14	95	269819	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	

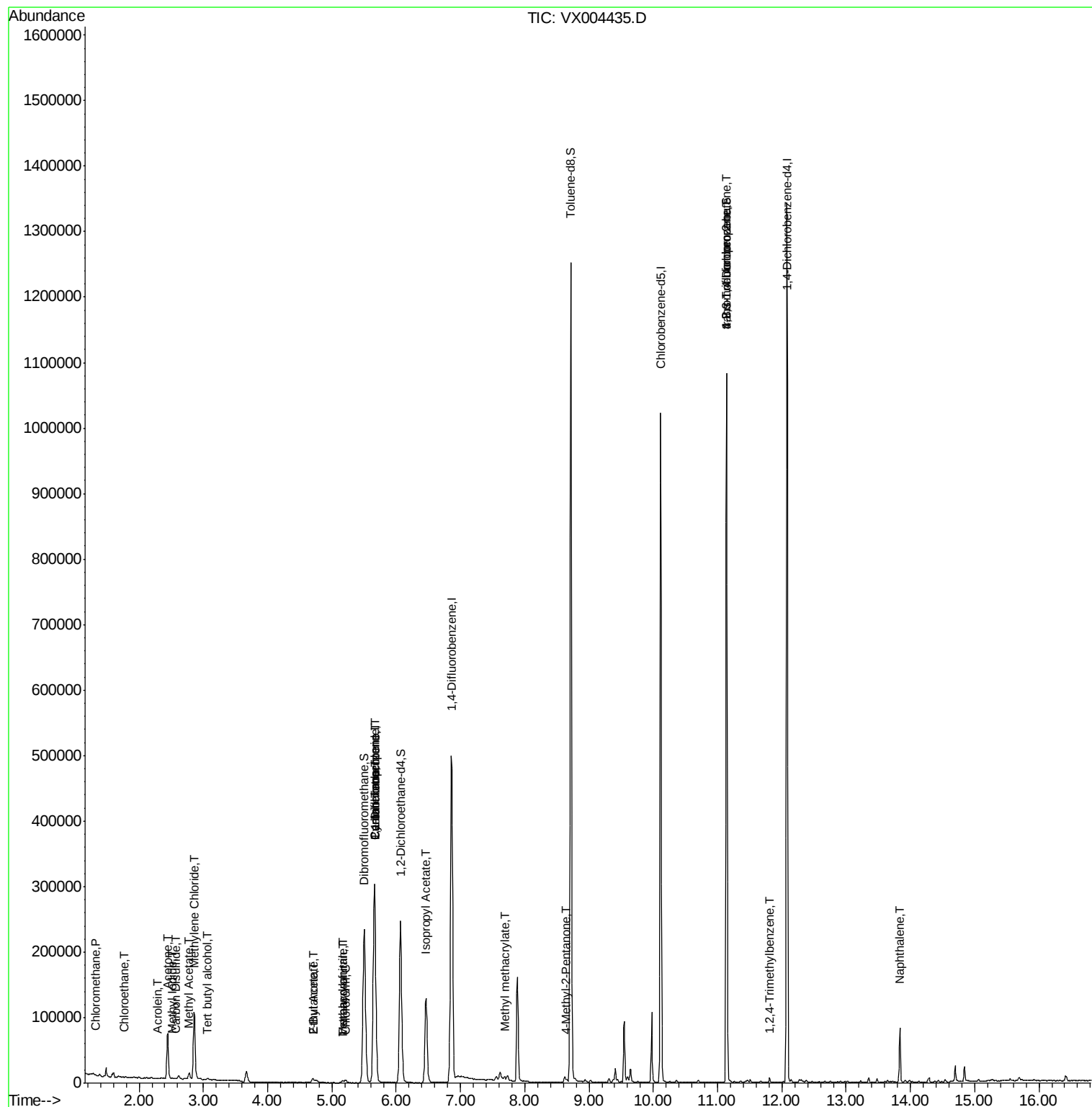
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	750	0.47	ug/l	# 62
5) Bromomethane	1.64	94	414	Below Cal		# 72
6) Chloroethane	1.76	64	4730	2.37	ug/l	# 61
10) Methyl Iodide	2.52	142	134	4.30	ug/l	# 59
11) Tert butyl alcohol	3.07	59	2978	3.37	ug/l	# 89
13) Acrolein	2.29	56	298	1.40	ug/l	# 71
16) Acetone	2.45	43	74392	37.05	ug/l	98
17) Carbon Disulfide	2.57	76	1056	0.91	ug/l	# 53
18) Methyl Acetate	2.78	43	12000	1.95	ug/l	98
20) Methylene Chloride	2.85	84	49384	12.37	ug/l	98
25) 2-Butanone	4.71	43	10557	0.96	ug/l	91
29) Tetrahydrofuran	5.17	42	2504	1.40	ug/l	89
30) Chloroform	5.21	83	3878	0.57	ug/l	97
31) Cyclohexane	5.66	56	5232	0.90	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	20811	3.52	ug/l	# 49
37) Ethyl Acetate	4.71	43	10694	1.84	ug/l	# 68
38) Carbon Tetrachloride	5.66	117	27341	4.92	ug/l	# 16
41) Methacrylonitrile	5.17	41	1655	0.49	ug/l	# 46
43) Isopropyl Acetate	6.46	43	165127	18.50	ug/l	99
48) Methyl methacrylate	7.69	41	7565	1.58	ug/l	# 21
51) 4-Methyl-2-Pentanone	8.65	43	2652	0.41	ug/l	# 81
76) 1,2,3-Trichloropropane	11.14	75	126105	21.69	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	126105	70.39	ug/l	# 10
84) 1,2,4-Trimethylbenzene	11.80	105	3494	0.22	ug/l	99
94) Hexachlorobutadiene	13.79	225	67	Below Cal		# 20
95) Naphthalene	13.83	128	52128	2.80	ug/l	99

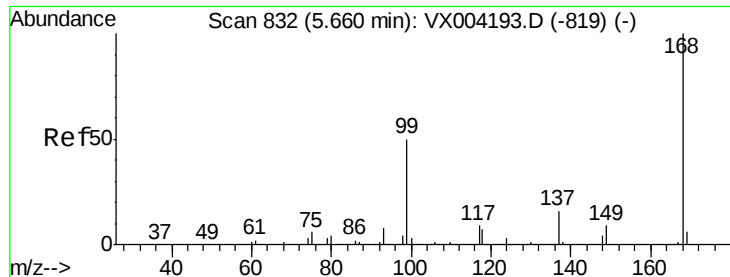
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

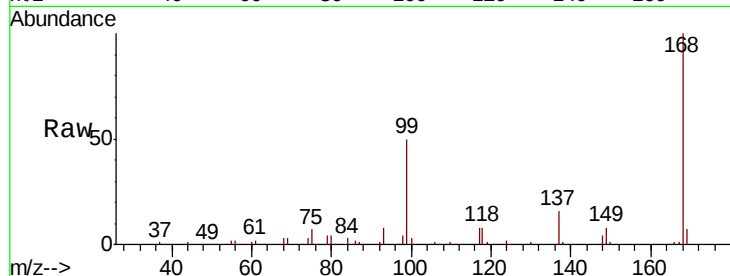
MS-SLUDGE-V24129

Tot Ion:168 Resp: 318294

Ion Ratio Lower Upper

168 100

99 49.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

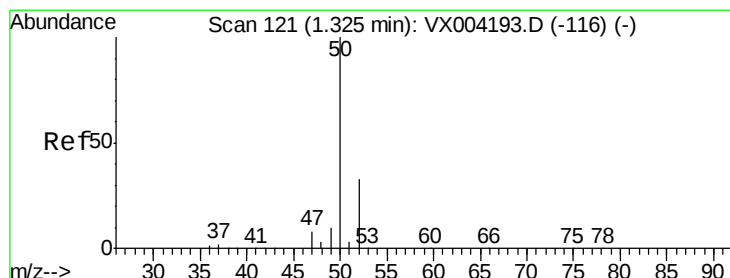
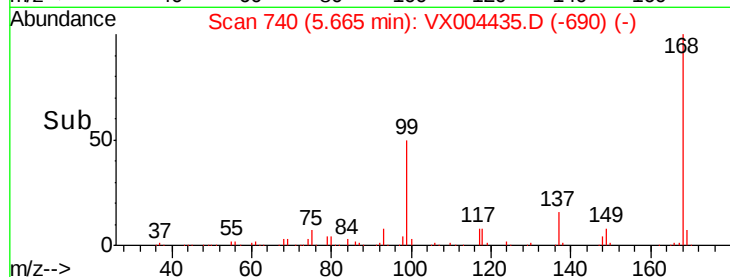
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.47 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004435.D

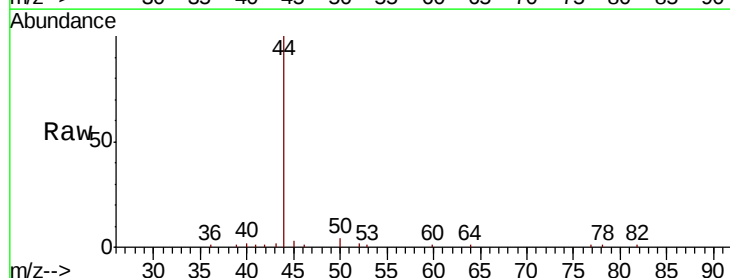
Acq: 08 Sep 2018 04:32

Tgt Ion: 50 Resp: 750

Ion Ratio Lower Upper

50 100

52 54.1 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

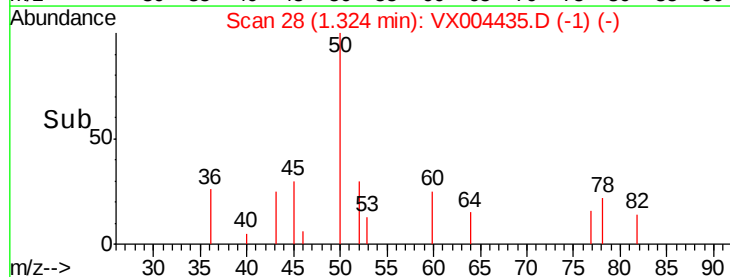
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

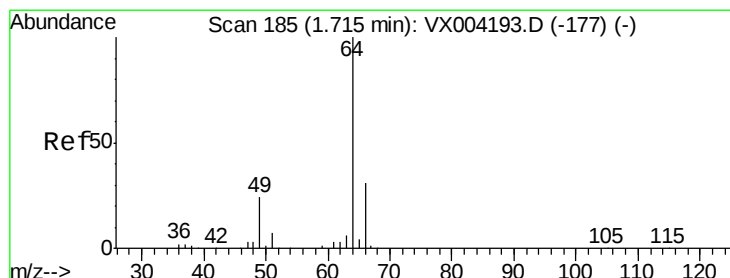
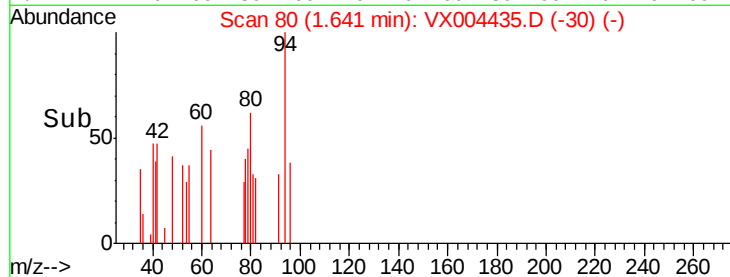
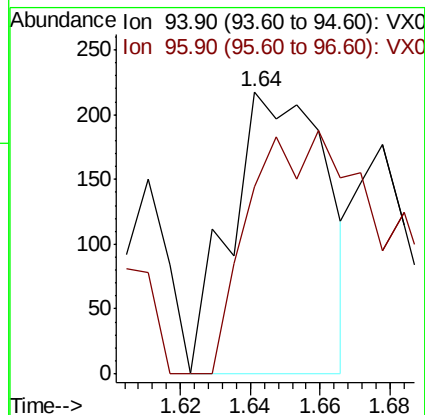
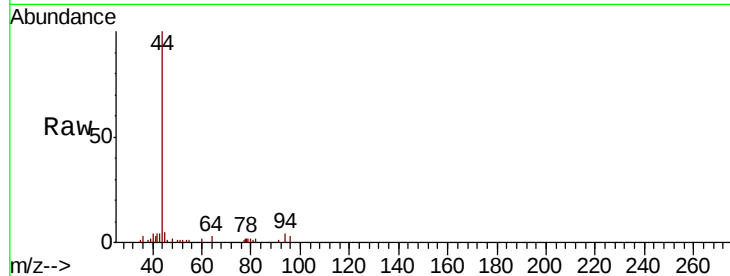
MS-SLUDGE-V24129

Tot Ion: 94 Resp: 414

Ion Ratio Lower Upper

94 100

96 66.1 74.5 111.7#



#6

Chloroethane

Concen: 2.37 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX004435.D

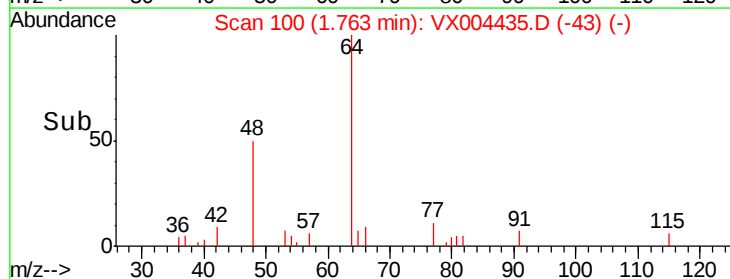
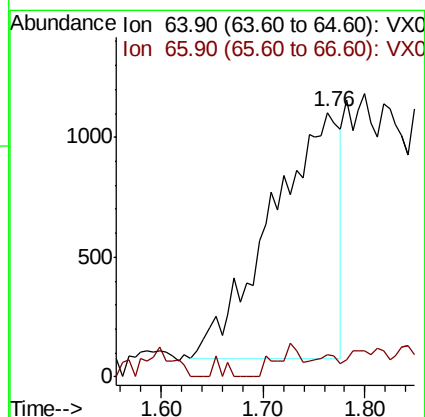
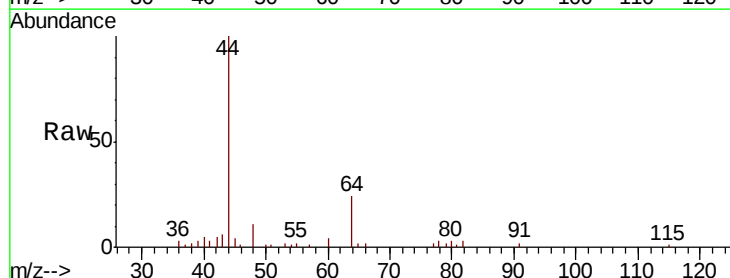
Acq: 08 Sep 2018 04:32

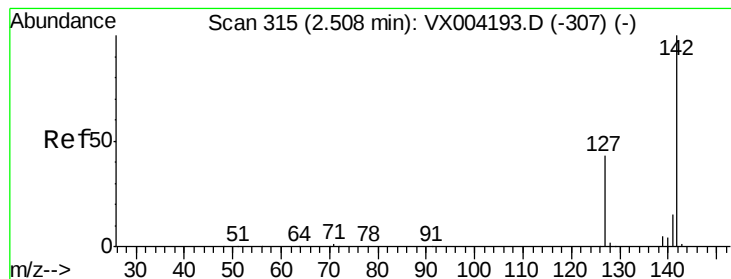
Tgt Ion: 64 Resp: 4730

Ion Ratio Lower Upper

64 100

66 9.1 24.6 36.8#





#10

Methvl Iodide

Concen: 4.30 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

MS-SLUDGE-V24129

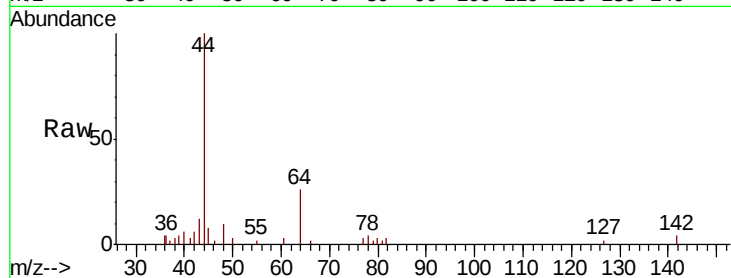
Tot Ion:142 Resp: 134

Ion Ratio Lower Upper

142 100

127 14.9 33.8 50.6#

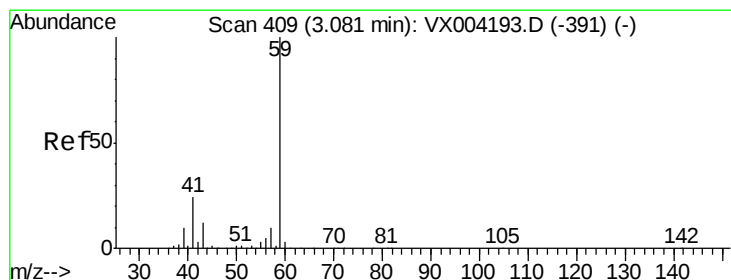
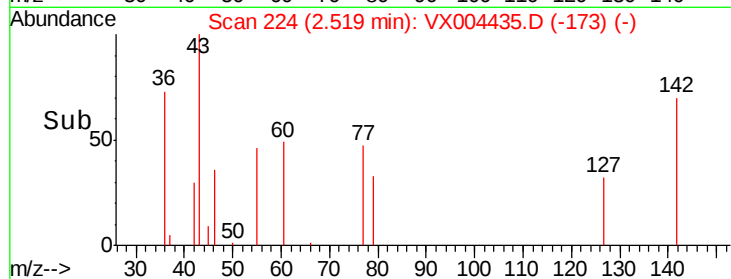
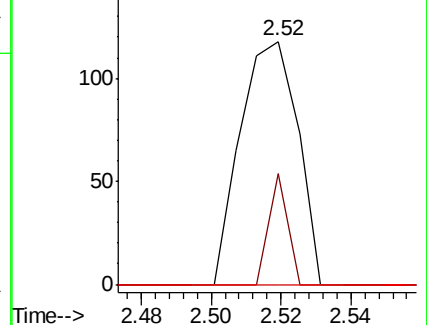
141 0.0 11.4 17.0#



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



#11

Tert butyl alcohol

Concen: 3.37 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX004435.D

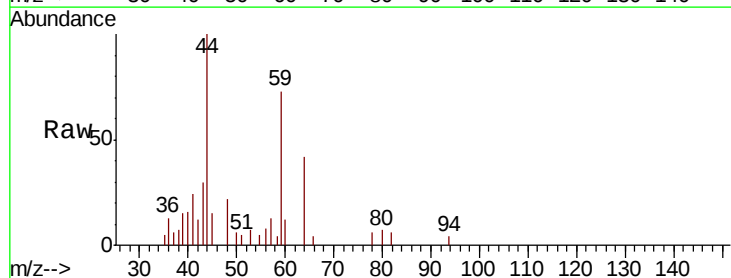
Acq: 08 Sep 2018 04:32

Tgt Ion: 59 Resp: 2978

Ion Ratio Lower Upper

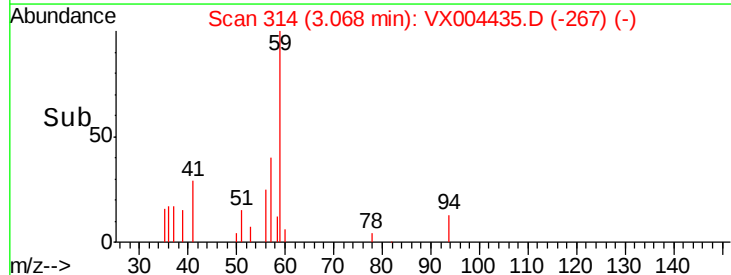
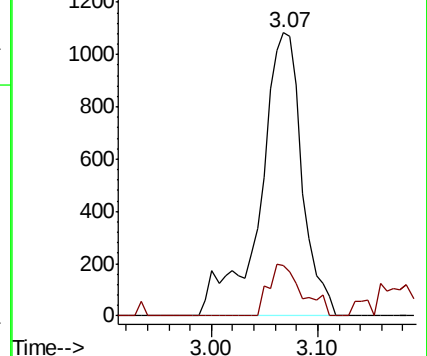
59 100

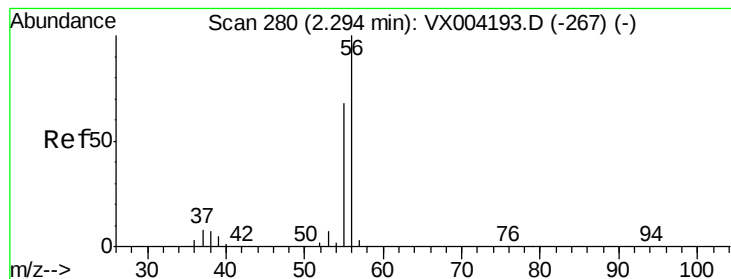
57 14.5 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.40 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

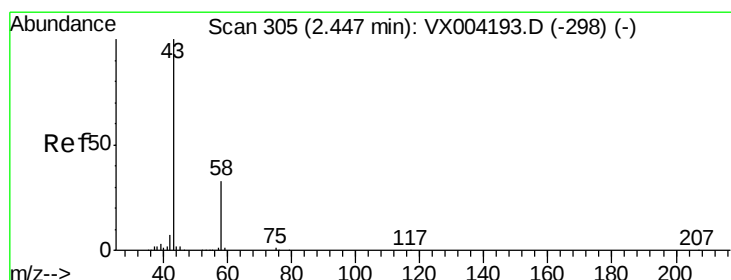
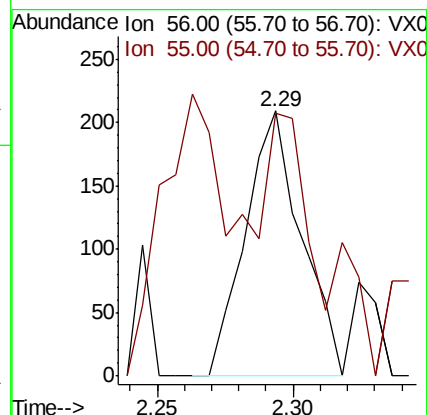
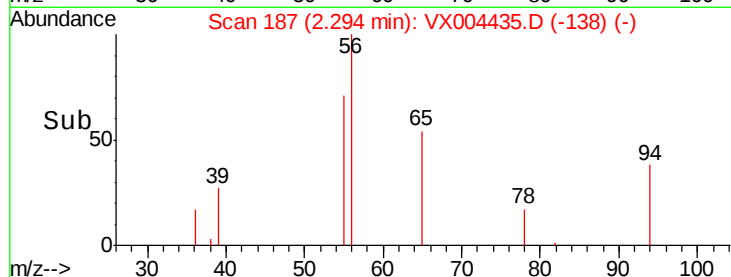
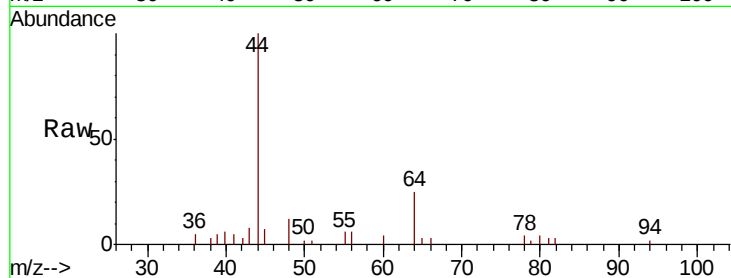
MS-SLUDGE-V24129

Tot Ion: 56 Resp: 298

Ion Ratio Lower Upper

56 100

55 91.9 54.7 82.1#



#16

Acetone

Concen: 37.05 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004435.D

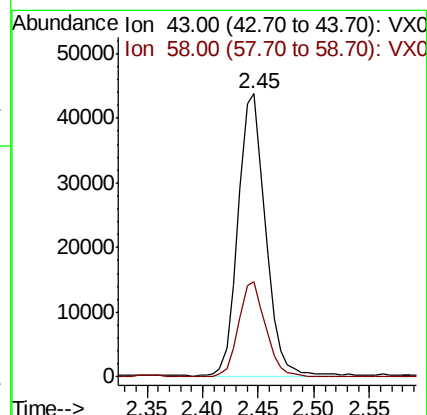
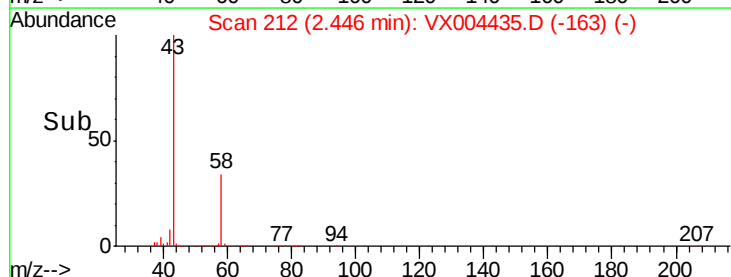
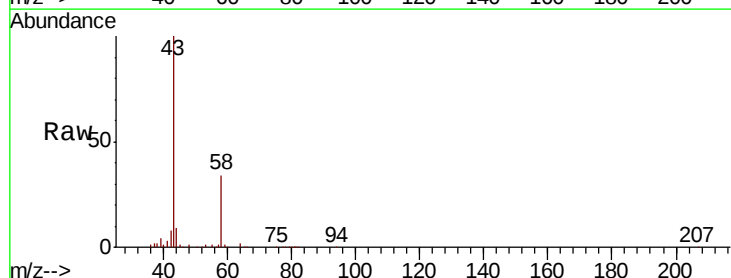
Acq: 08 Sep 2018 04:32

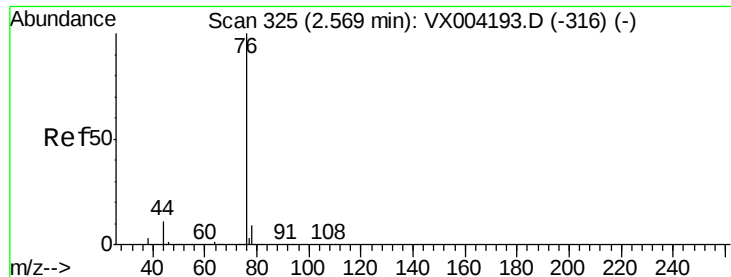
Tgt Ion: 43 Resp: 74392

Ion Ratio Lower Upper

43 100

58 33.8 26.2 39.4





#17

Carbon Disulfide

Concen: 0.91 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

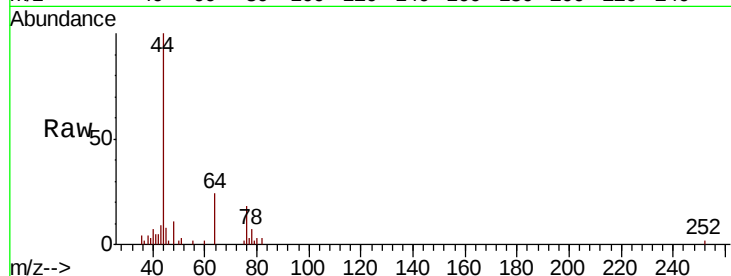
MS-SLUDGE-V24129

Tot Ion: 76 Resp: 1056

Ion Ratio Lower Upper

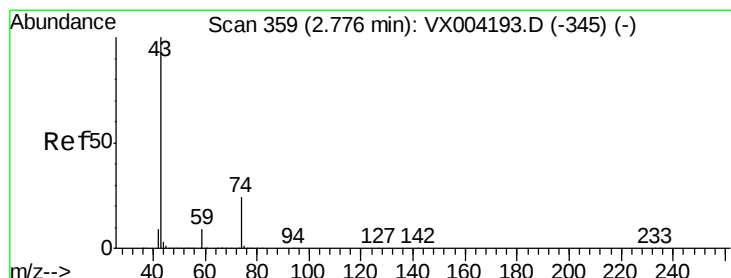
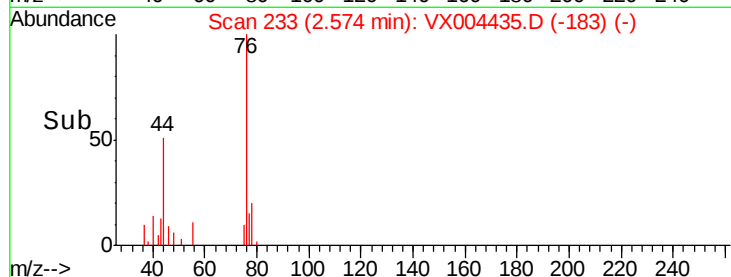
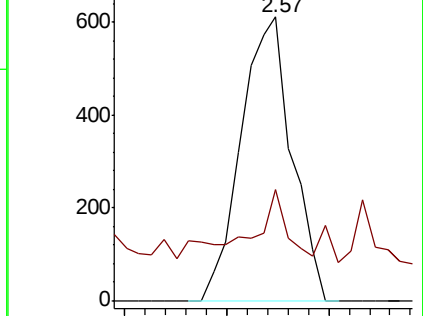
76 100

78 25.8 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 1.95 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX004435.D

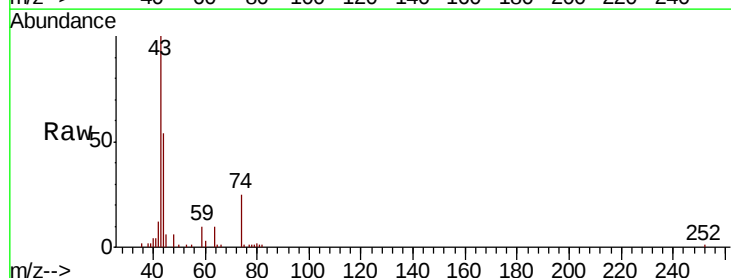
Acq: 08 Sep 2018 04:32

Tgt Ion: 43 Resp: 12000

Ion Ratio Lower Upper

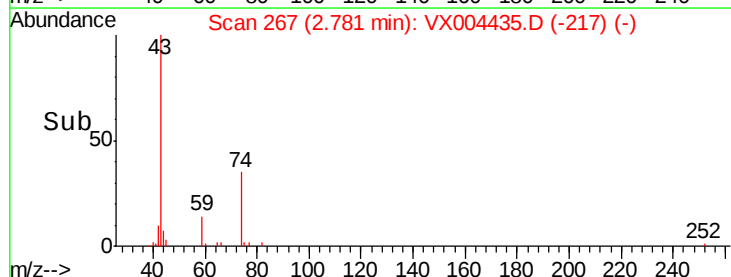
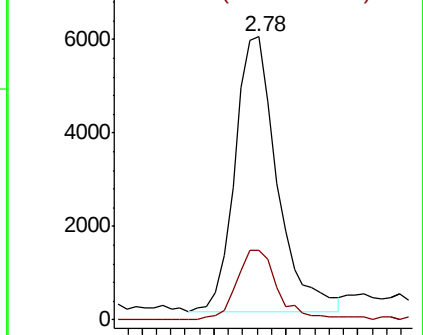
43 100

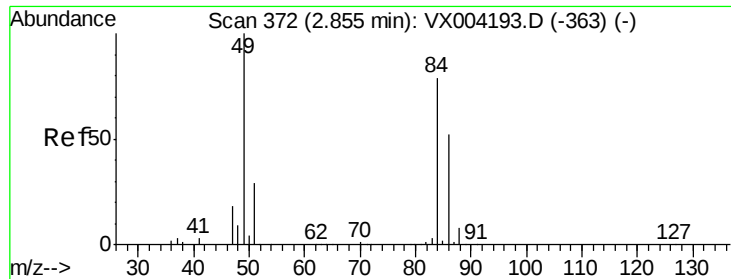
74 25.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

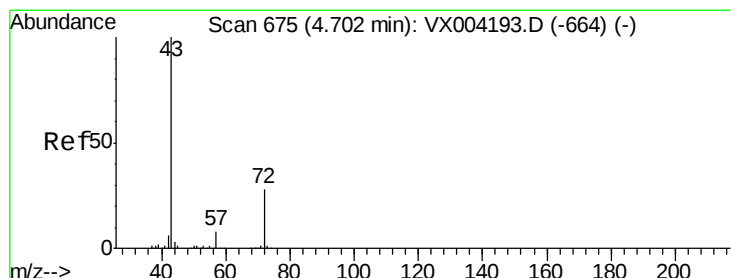
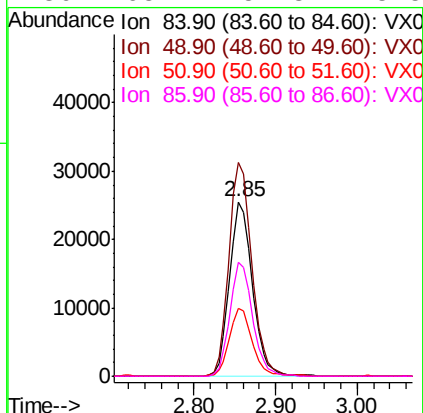
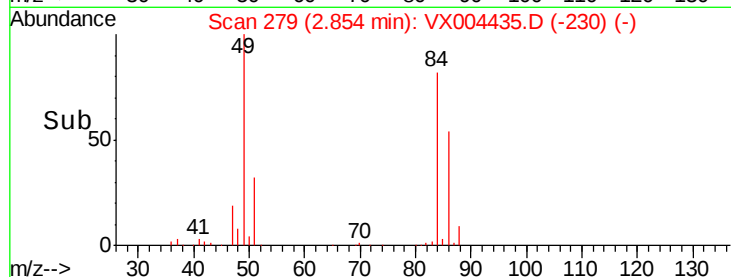
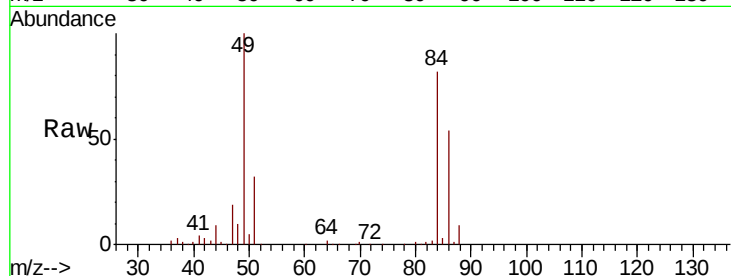




#20
Methvlene Chloride
Concen: 12.37 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004435.D
Acq: 08 Sep 2018 04:32

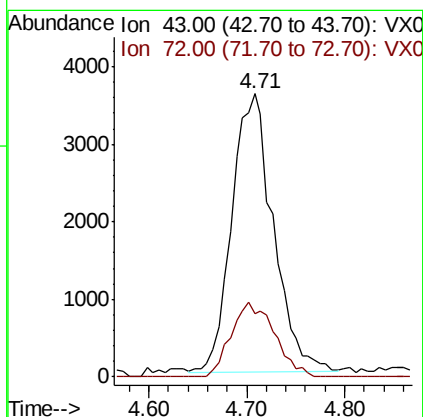
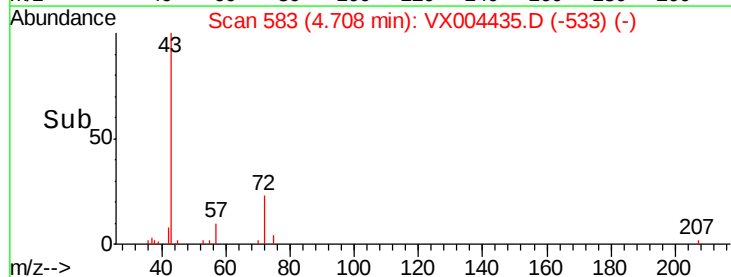
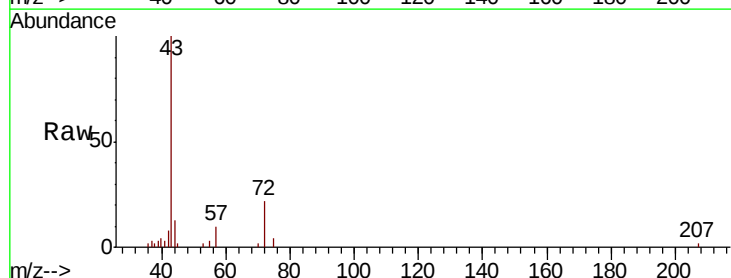
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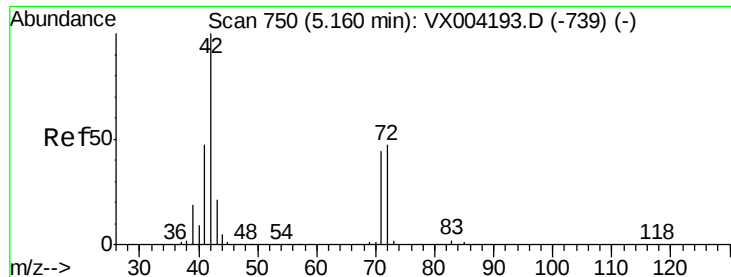
Tot Ion:	84	Resp:	49384
Ion	Ratio	Lower	Upper
84	100		
49	122.6	101.2	151.8
51	38.6	29.5	44.3
86	65.7	52.3	78.5



#25
2-Butanone
Concen: 0.96 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004435.D
Acq: 08 Sep 2018 04:32

Tgt Ion:	43	Resp:	10557
Ion	Ratio	Lower	Upper
43	100		
72	22.8	22.0	33.0





#29

Tetrahydrofuran

Concen: 1.40 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

MS-SLUDGE-V24129

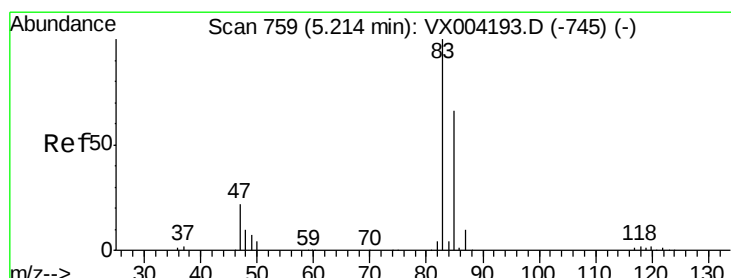
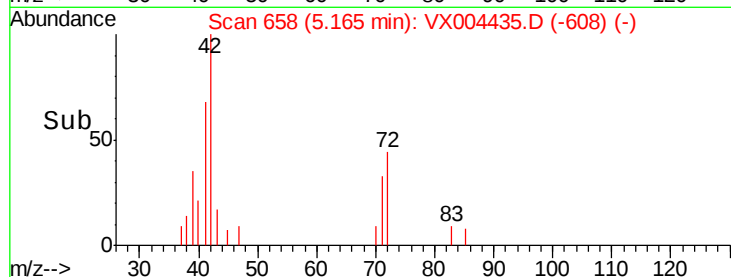
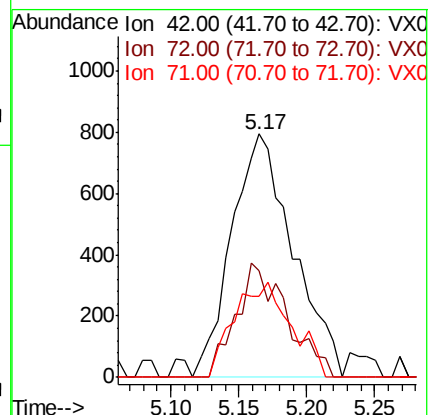
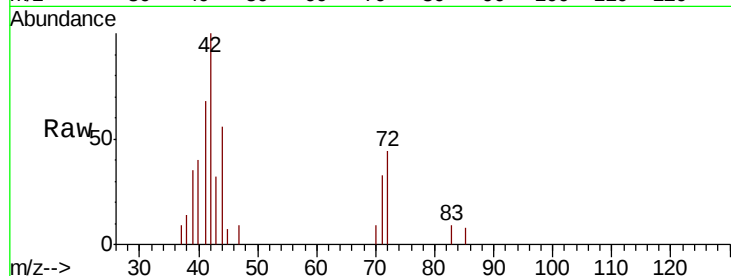
Tot Ion: 42 Resp: 2504

Ion Ratio Lower Upper

42 100

72 38.9 37.4 56.0

71 36.5 34.5 51.7



#30

Chloroform

Concen: 0.57 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX004435.D

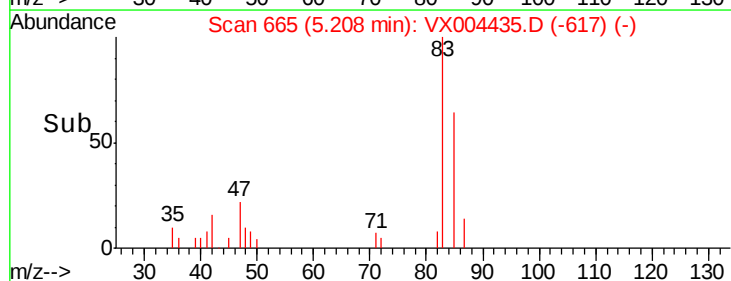
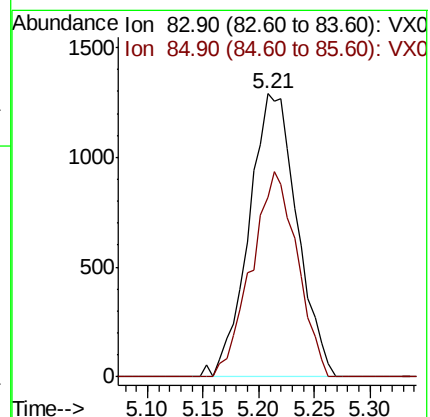
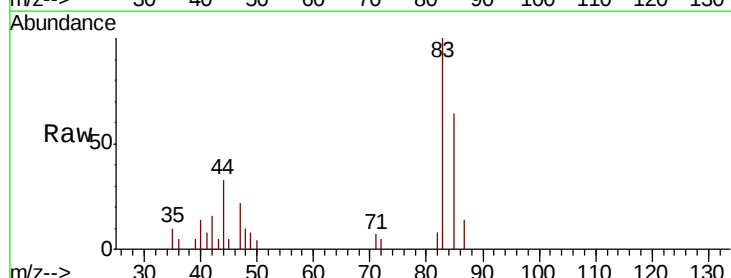
Acq: 08 Sep 2018 04:32

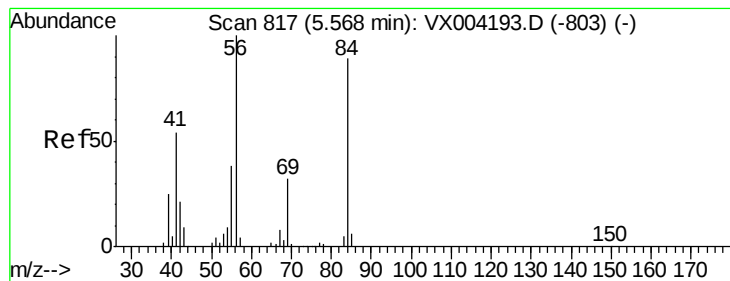
Tgt Ion: 83 Resp: 3878

Ion Ratio Lower Upper

83 100

85 63.6 52.6 79.0





#31

Cyclohexane

Concen: 0.90 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

MS-SLUDGE-V24129

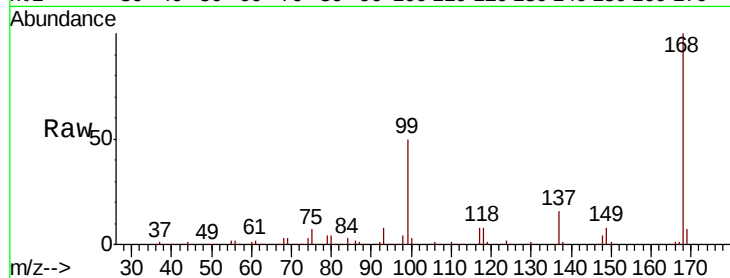
Tot Ion: 56 Resp: 5232

Ion Ratio Lower Upper

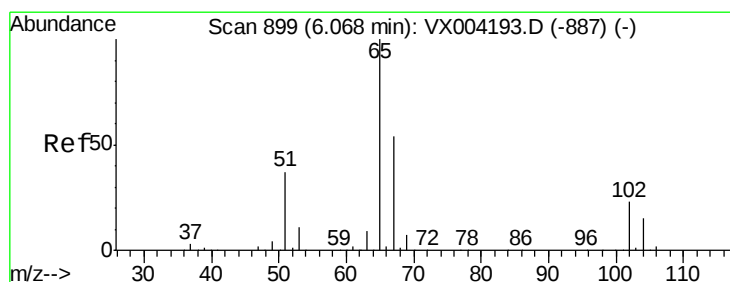
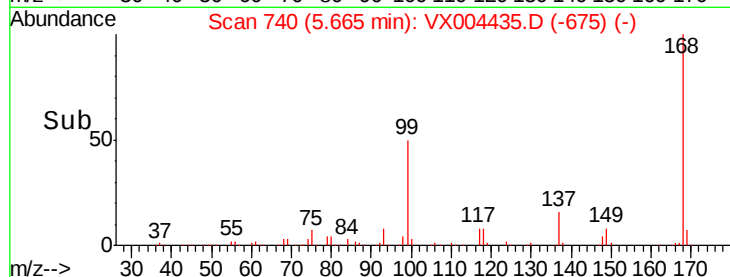
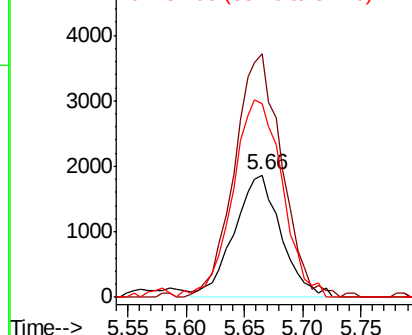
56 100

69 199.1 25.4 38.2#

84 158.6 71.4 107.2#



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: 54.01 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004435.D

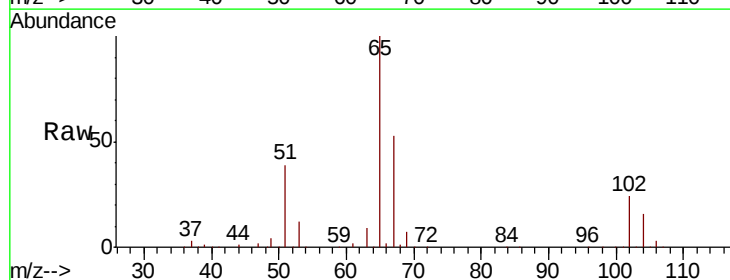
Acq: 08 Sep 2018 04:32

Tgt Ion: 65 Resp: 224067

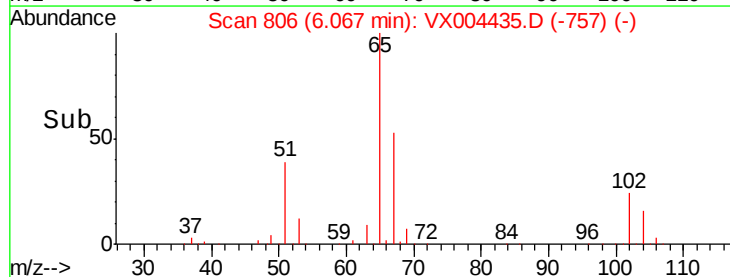
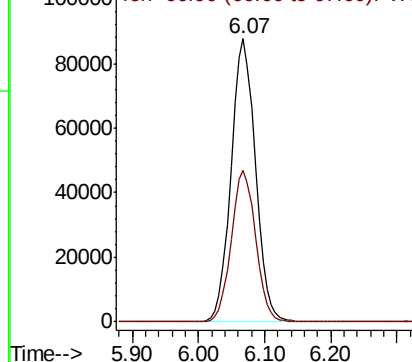
Ion Ratio Lower Upper

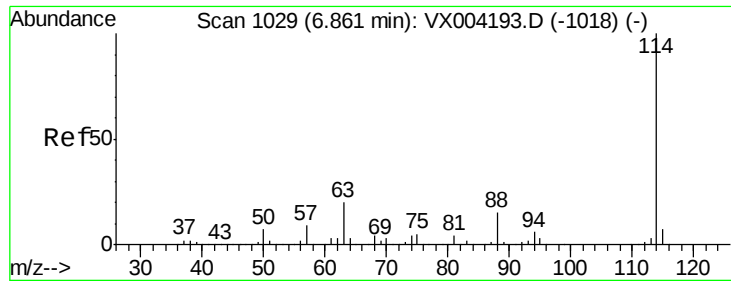
65 100

67 53.6 0.0 106.8



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

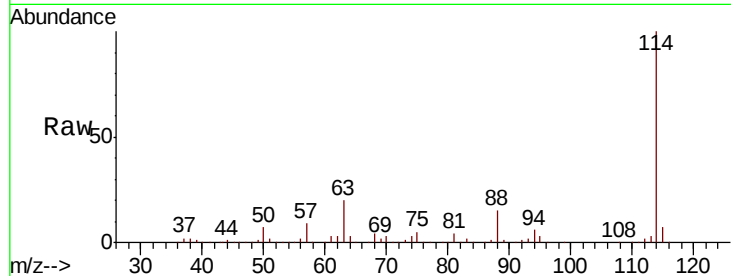




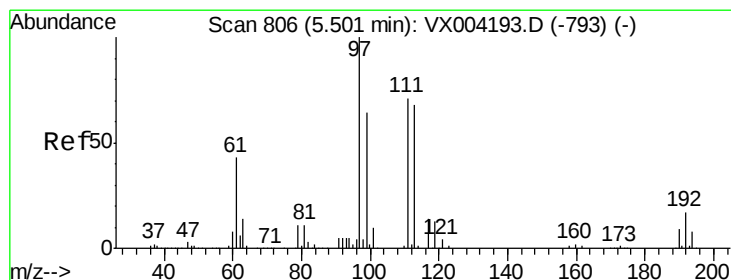
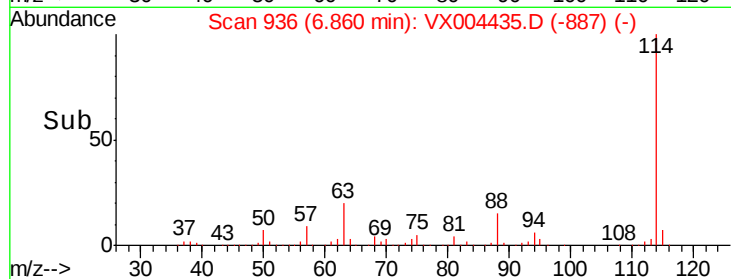
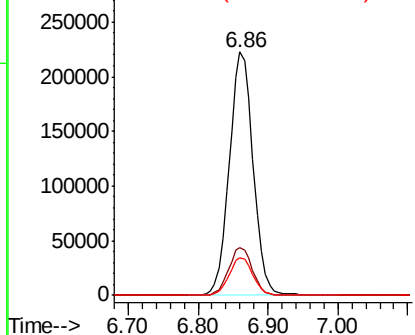
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004435.D
 Acq: 08 Sep 2018 04:32

Instrument :
 MSVOA_X
 ClientSampleId :
 MS-SLUDGE-V24129

Tot Ion:114 Resp: 525467
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.4 0.0 30.4

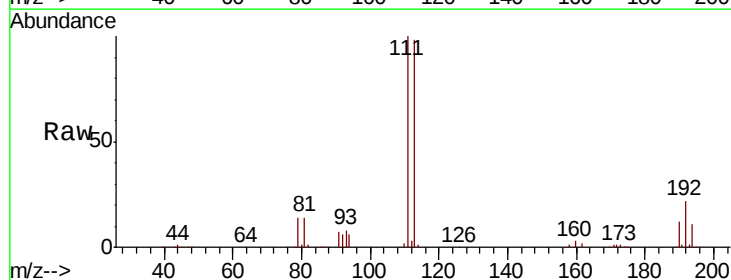


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

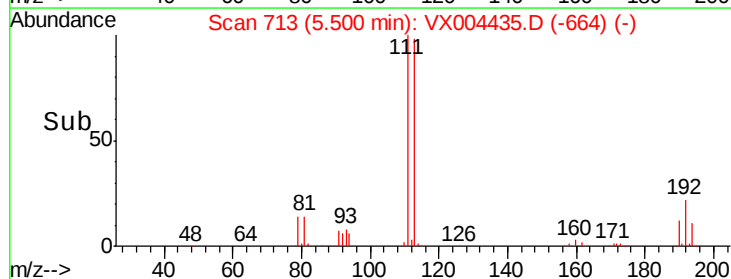
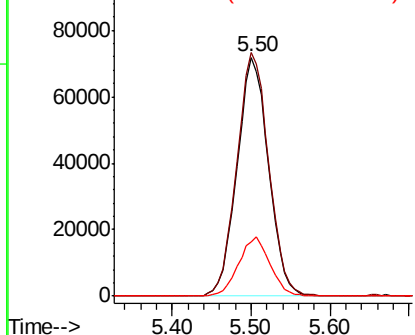


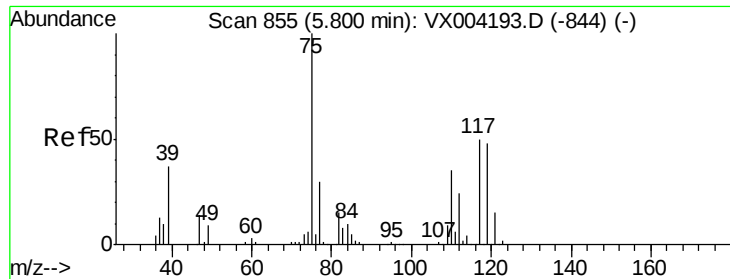
#35
 Dibromofluoromethane
 Concen: 50.96 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004435.D
 Acq: 08 Sep 2018 04:32

Tgt Ion:113 Resp: 199205
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.4 123.6
 192 24.6 19.4 29.2



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

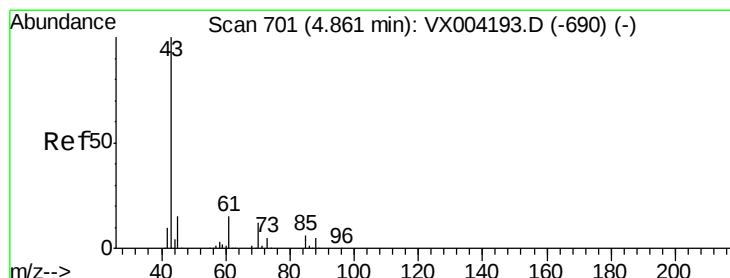
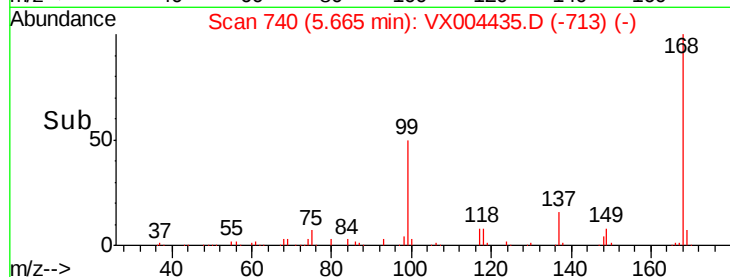
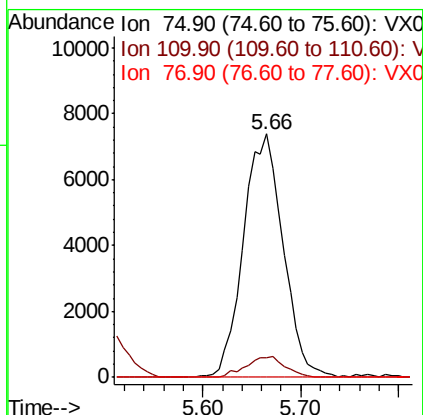
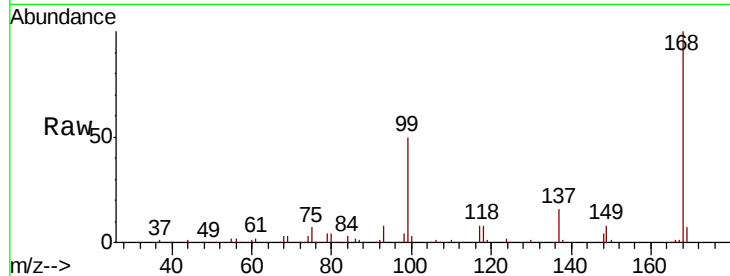




#36
 1,1-Dichloropropene
 Concen: 3.52 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004435.D
 Acq: 08 Sep 2018 04:32

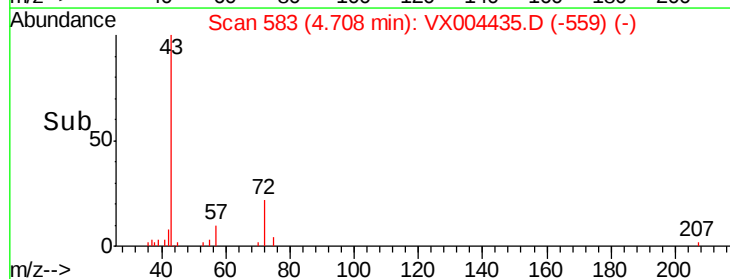
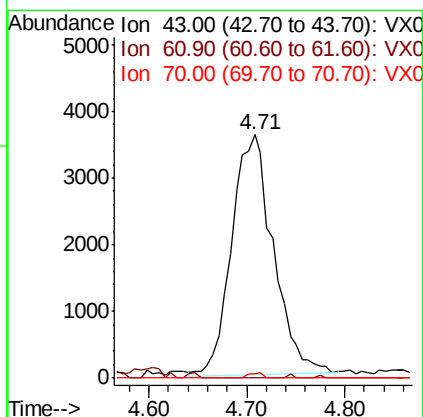
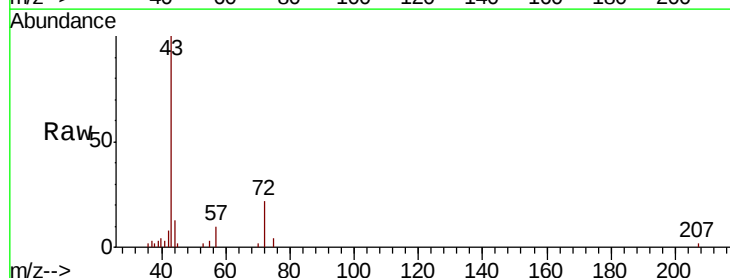
Instrument :
 MSVOA_X
 ClientSampleId :
 MS-SLUDGE-V24129

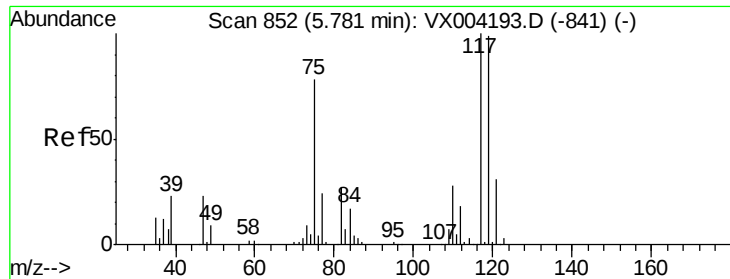
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.0	54.0#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.84 ug/l
 RT: 4.71 min Scan# 583
 Delta R.T. -0.15 min
 Lab File: VX004435.D
 Acq: 08 Sep 2018 04:32

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	0.7	9.0	13.6#

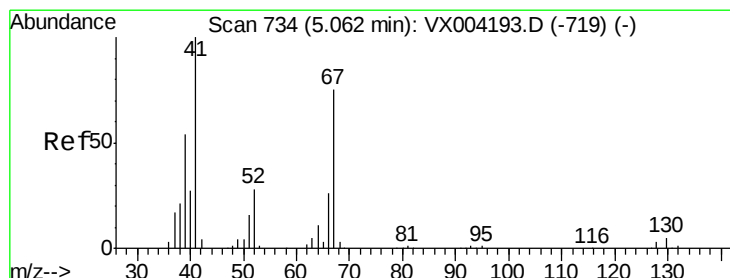
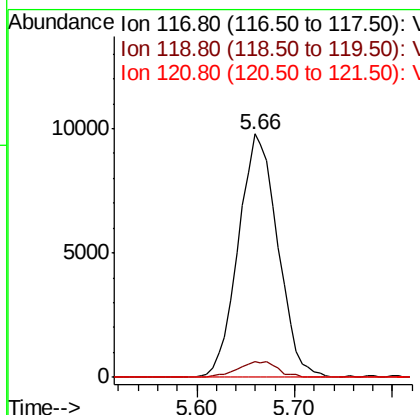
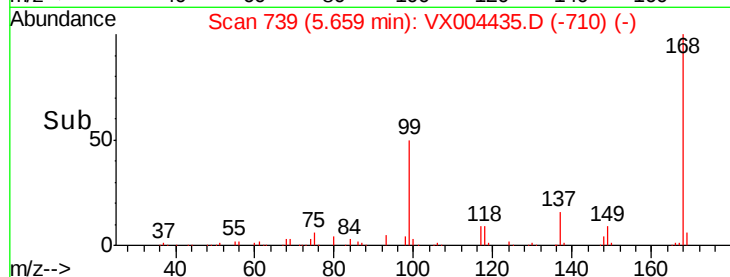
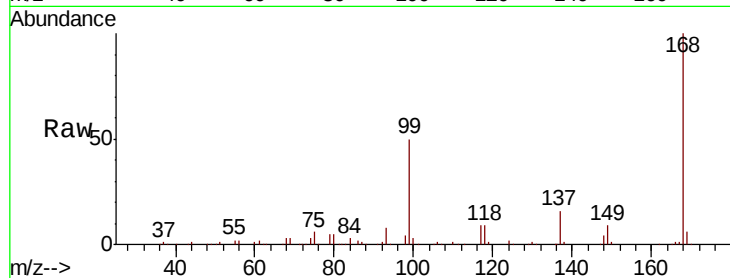




#38
Carbon Tetrachloride
Concen: 4.92 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX004435.D
Acq: 08 Sep 2018 04:32

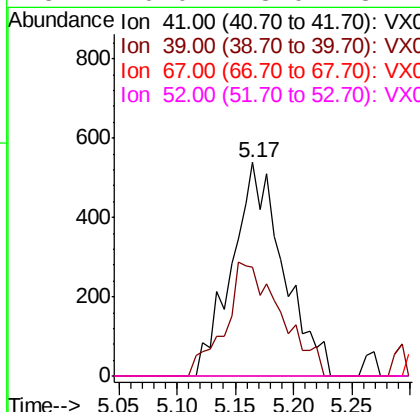
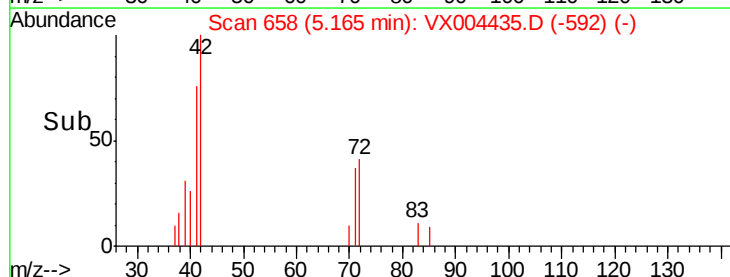
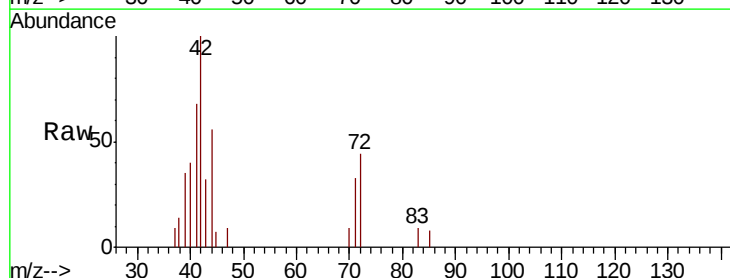
Instrument :
MSVOA_X
ClientSampleId :
MS-SLUDGE-V24129

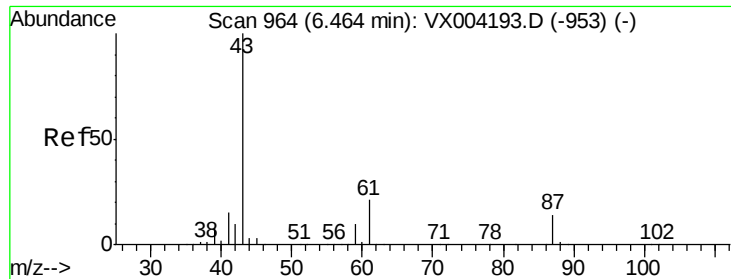
Tot Ion:117 Resp: 27341
Ion Ratio Lower Upper
117 100
119 6.7 78.8 118.2#
121 0.0 24.9 37.3#



#41
Methacrylonitrile
Concen: 0.49 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX004435.D
Acq: 08 Sep 2018 04:32

Tgt Ion: 41 Resp: 1655
Ion Ratio Lower Upper
41 100
39 57.6 42.4 63.6
67 0.0 59.2 88.8#
52 0.0 23.0 34.4#



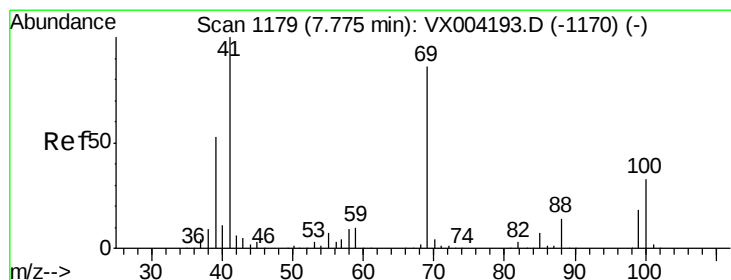
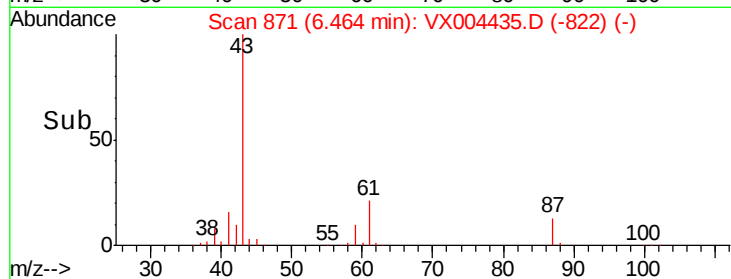
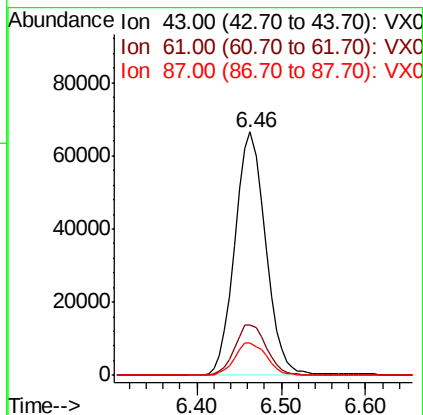
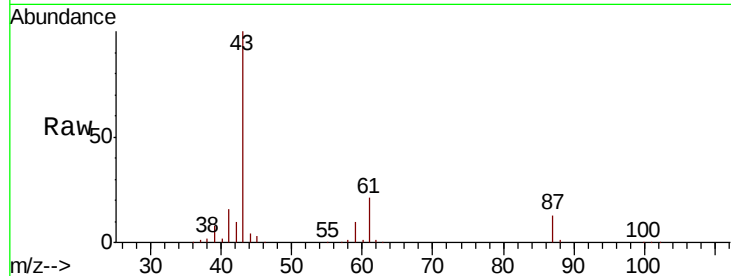


#43

Isopropyl Acetate
 Concen: 18.50 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.00 min
 Lab File: VX004435.D
 Acq: 08 Sep 2018 04:32

Instrument :
 MSVOA_X
 ClientSampleId :
 MS-SLUDGE-V24129

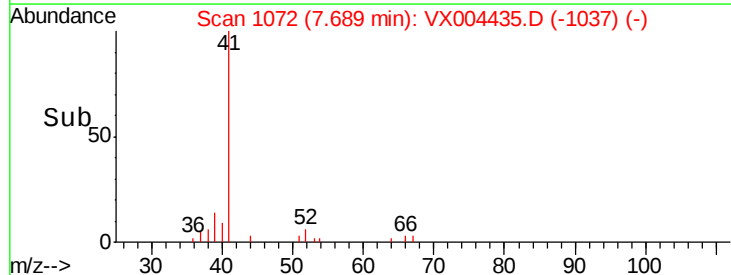
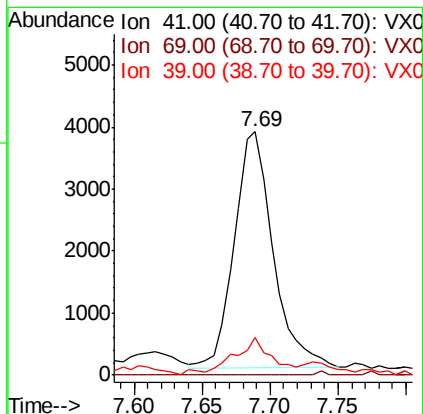
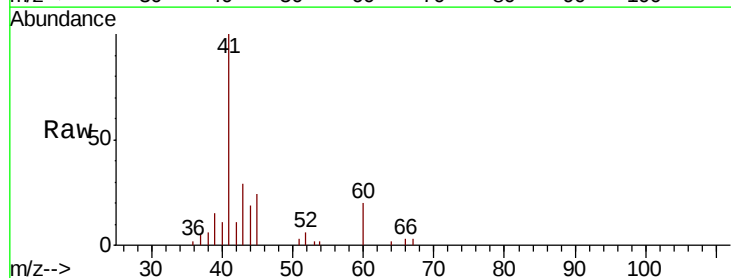
Tot Ion	43	Resp	165127
Ion Ratio	Lower	Upper	
43	100		
61	21.4	17.0	25.4
87	13.9	11.4	17.2

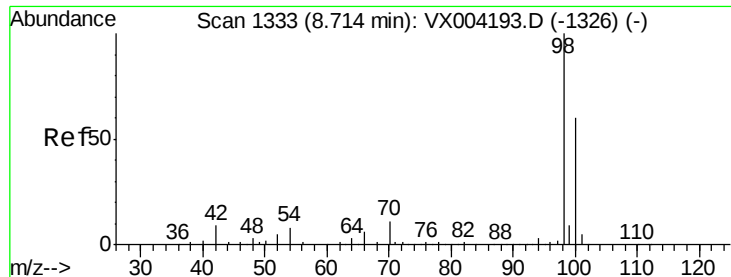


#48

Methyl methacrylate
 Concen: 1.58 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004435.D
 Acq: 08 Sep 2018 04:32

Tgt Ion	41	Resp	7565
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	16.0	42.7	64.1#





#50

Toluene-d8

Concen: 51.18 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

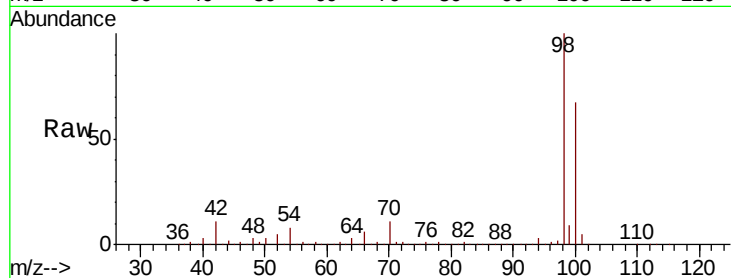
MS-SLUDGE-V24129

Tot Ion: 98 Resp: 755142

Ion Ratio Lower Upper

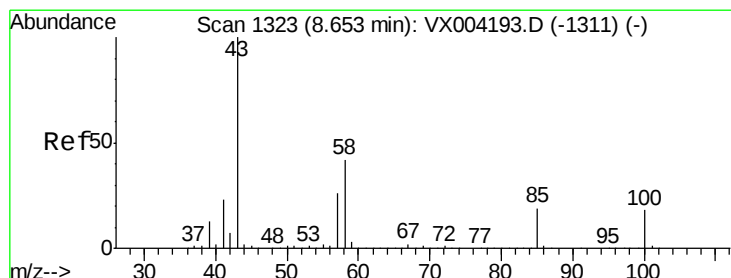
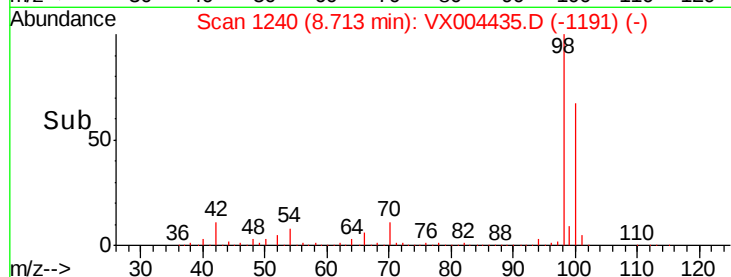
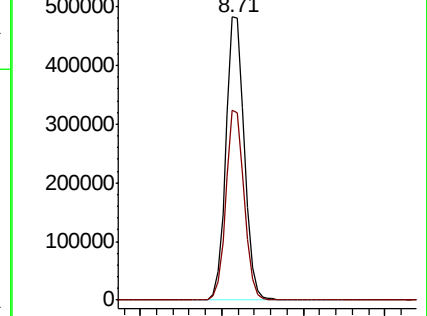
98 100

100 66.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.41 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VX004435.D

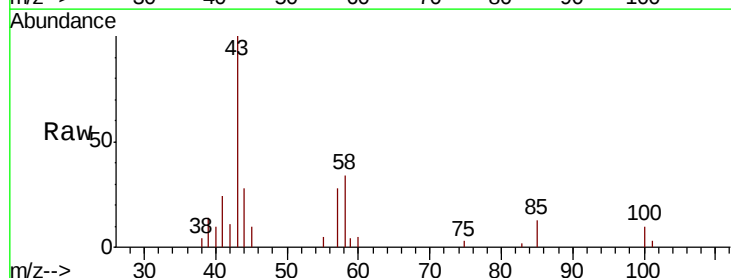
Acq: 08 Sep 2018 04:32

Tgt Ion: 43 Resp: 2652

Ion Ratio Lower Upper

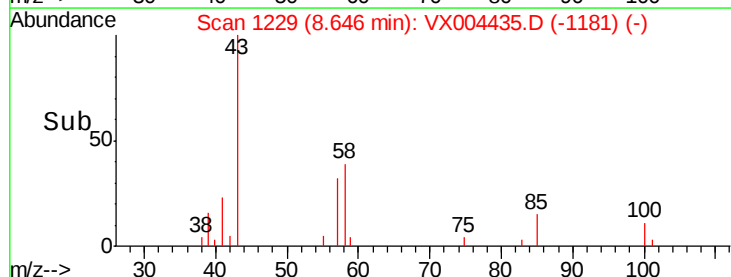
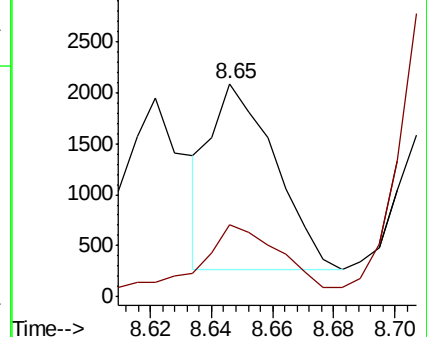
43 100

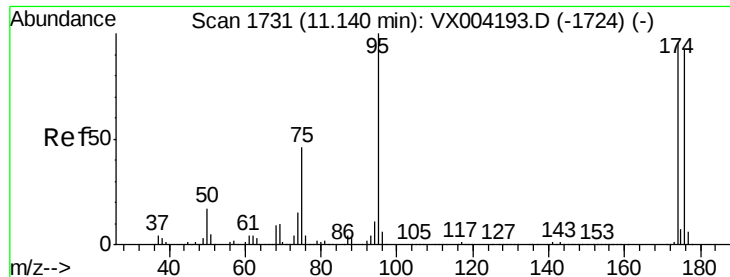
58 53.2 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

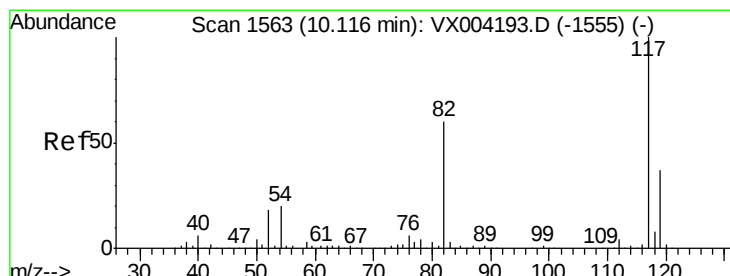
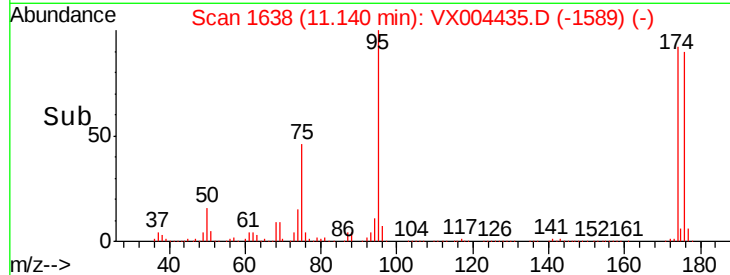
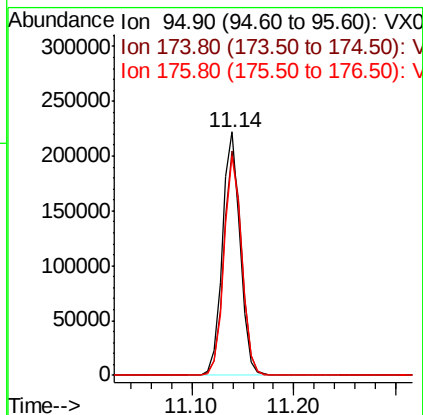
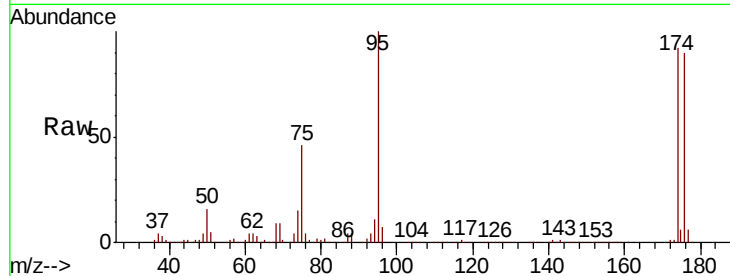




#62
4-Bromofluorobenzene
Concen: 49.01 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004435.D
Acq: 08 Sep 2018 04:32

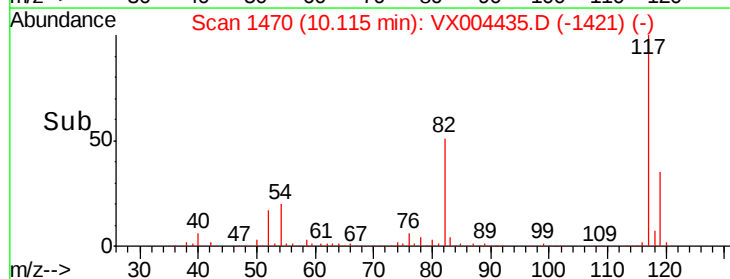
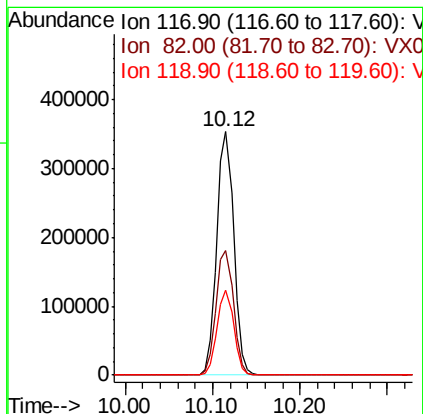
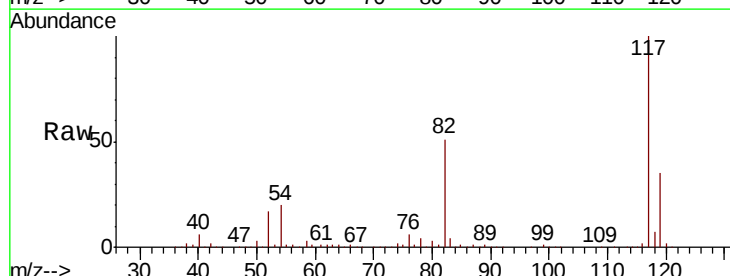
Instrument :
MSVOA_X
ClientSampleId :
MS-SLUDGE-V24129

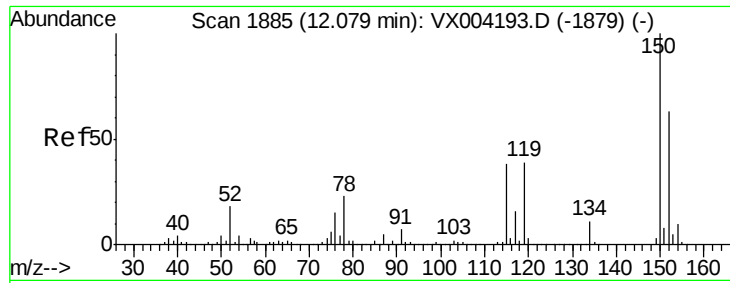
Tot Ion: 95 Resp: 269819
Ion Ratio Lower Upper
95 100
174 92.9 0.0 185.2
176 89.6 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004435.D
Acq: 08 Sep 2018 04:32

Tgt Ion: 117 Resp: 474107
Ion Ratio Lower Upper
117 100
82 51.1 47.8 71.6
119 34.9 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

MS-SLUDGE-V24129

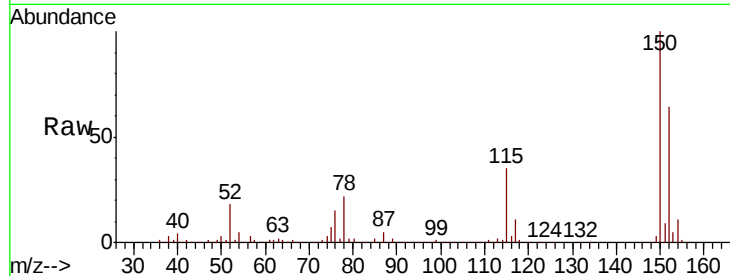
Tot Ion:152 Resp: 285802

Ion Ratio Lower Upper

152 100

115 54.7 39.0 117.0

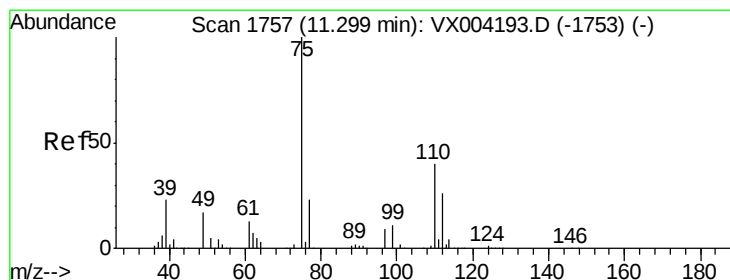
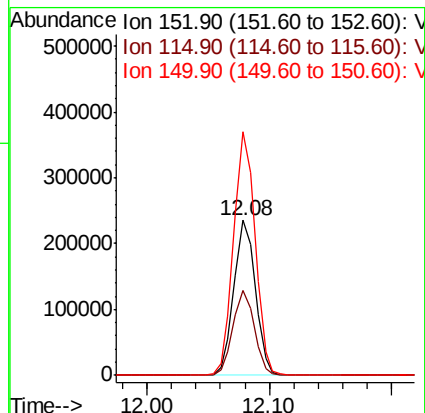
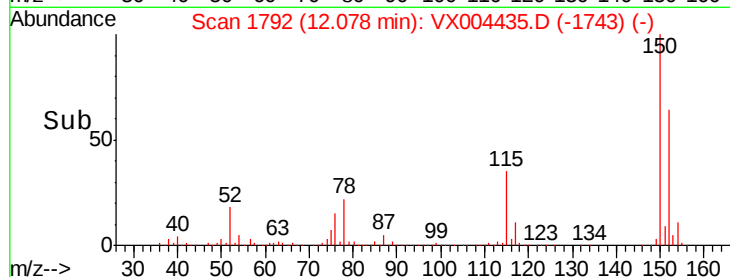
150 156.6 0.0 351.0



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



#76

1,2,3-Trichloropropane

Concen: 21.69 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004435.D

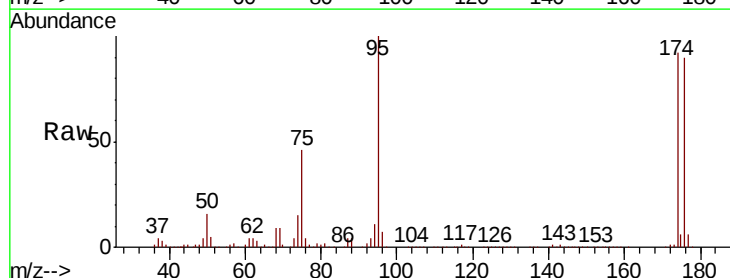
Acq: 08 Sep 2018 04:32

Tgt Ion: 75 Resp: 126105

Ion Ratio Lower Upper

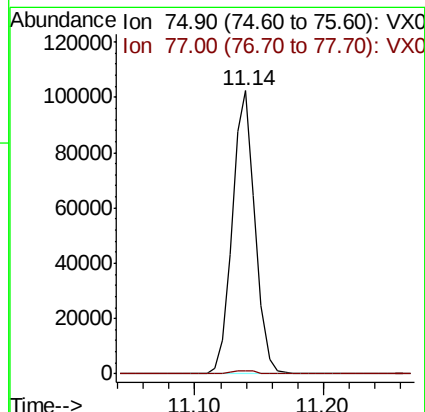
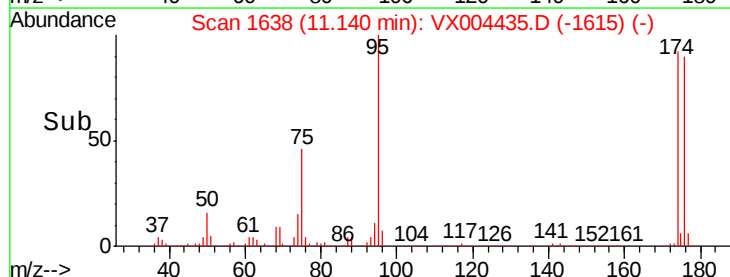
75 100

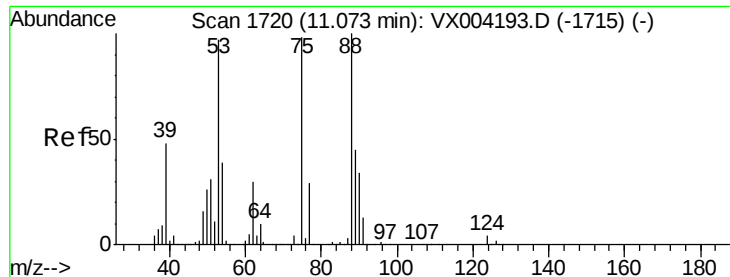
77 1.4 20.2 60.6#



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: 70.39 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004435.D

Acq: 08 Sep 2018 04:32

Instrument :

MSVOA_X

ClientSampleId :

MS-SLUDGE-V24129

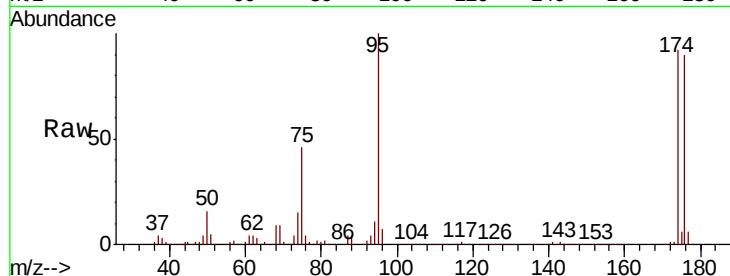
Tot Ion: 75 Resp: 126105

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

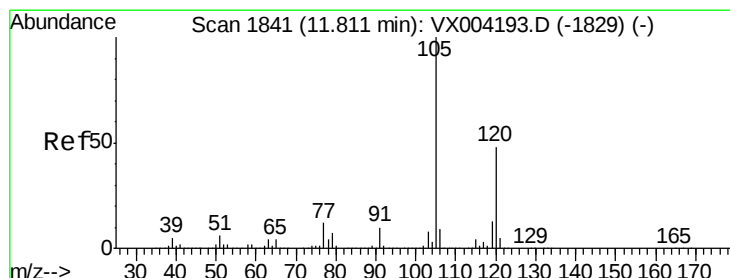
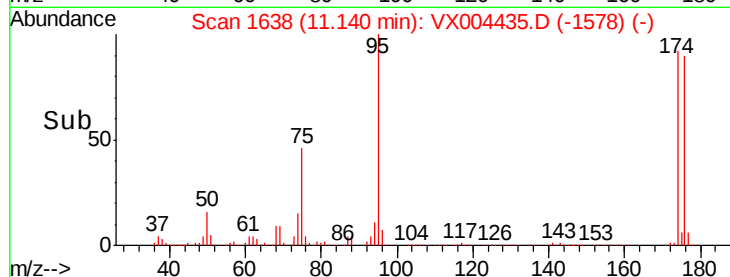
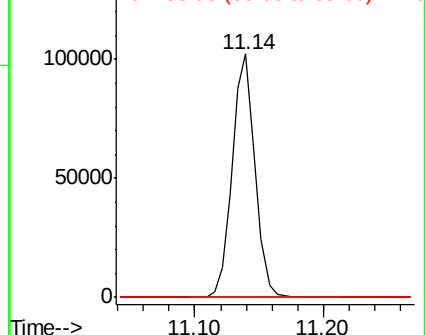
89 0.0 37.2 55.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.22 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.01 min

Lab File: VX004435.D

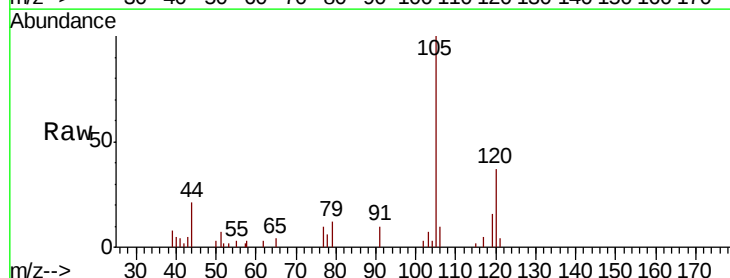
Acq: 08 Sep 2018 04:32

Tgt Ion: 105 Resp: 3494

Ion Ratio Lower Upper

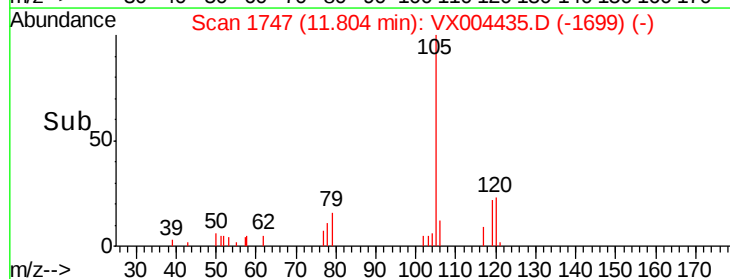
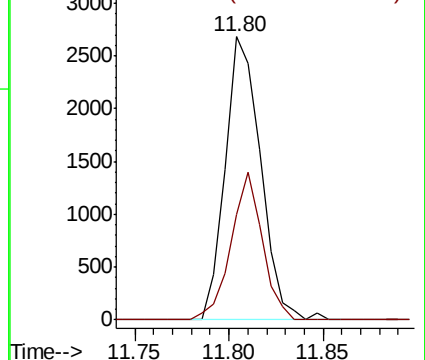
105 100

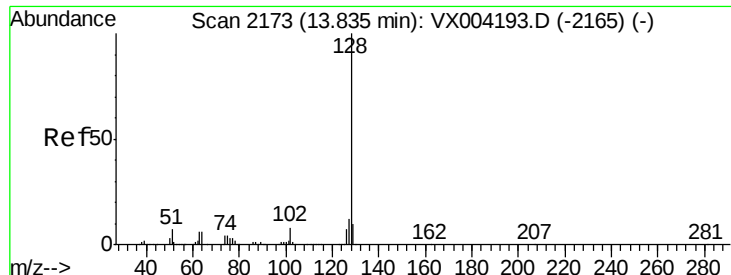
120 46.1 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

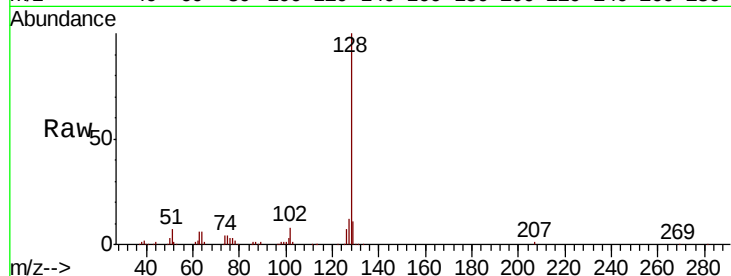




#95
Naphthalene
Concen: 2.80 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX004435.D
Acq: 08 Sep 2018 04:32

Instrument :
MSVOA_X
ClientSampleId :
MS-SLUDGE-V24129

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	11.1	8.6	12.8



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

