

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082218\
 Data File : VN050822.D
 Acq On : 22 Aug 2018 16:16
 Operator : MD\SY
 Sample : J4586-02 10X
 Misc : 6.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-240-UST-SLUDGE

Manual Integrations
 APPROVED

MMDadoda
 8/23/2018 12:27:09 PM

Quant Time: Aug 23 09:50:56 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	793896	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1192719	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1085472	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	527611	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	459655	48.09	ug/l	0.00
Spiked Amount						
			Recovery	=	96.18%	
35) Dibromofluoromethane	7.59	113	434370	45.78	ug/l	0.00
Spiked Amount						
			Recovery	=	91.56%	
50) Toluene-d8	10.09	98	1710364	48.21	ug/l	0.00
Spiked Amount						
			Recovery	=	96.42%	
62) 4-Bromofluorobenzene	12.40	95	567418	48.13	ug/l	0.00
Spiked Amount						
			Recovery	=	96.26%	

Target Compounds

						Qvalue
39) Methylcyclohexane	9.08	83	190639	12.52	ug/l	97
40) Benzene	8.04	78	458494	10.80	ug/l	100
52) Toluene	10.16	92	1862054	74.06	ug/l	98
67) Ethyl Benzene	11.51	91	2010832	43.60	ug/l	100
68) m/p-Xylenes	11.62	106	2974344	169.89	ug/l	100
69) o-Xylene	11.95	106	1323458	78.63	ug/l	99
73) Isopropylbenzene	12.25	105	295819	6.77	ug/l	100
78) n-propylbenzene	12.59	91	1085825	22.25	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1527443	43.33	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	5571383	157.12	ug/l	99
85) sec-Butylbenzene	13.17	105	141158m	3.53	ug/l	
86) p-Isopropyltoluene	13.29	119	120697	3.54	ug/l	98
89) n-Butylbenzene	13.62	91	246456	9.04	ug/l #	70
91) 1,2-Dichlorobenzene	13.65	146	216855	11.16	ug/l	94
95) Naphthalene	15.13	128	3312320	145.56	ug/l	100

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

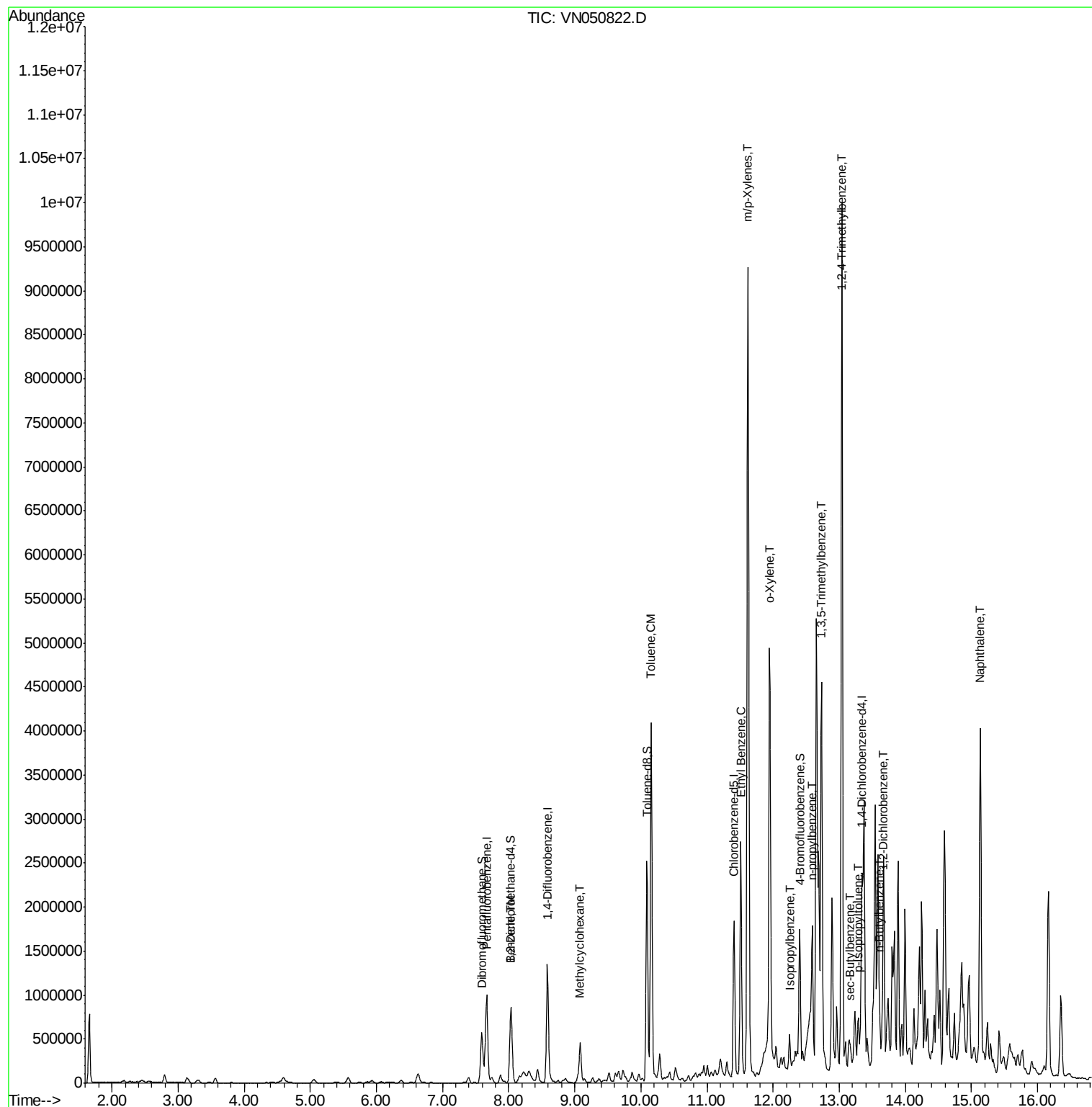
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082218\
Data File : VN050822.D
Acq On : 22 Aug 2018 16:16
Operator : MD\SY
Sample : J4586-02 10X
Misc : 6.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EP1-240-UST-SLUDGE

Quant Time: Aug 23 09:50:56 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration

Manual Integrations
APPROVED

MMDadoda
8/23/2018 12:27:09 PM





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050822.D

Acq: 22 Aug 2018 16:16

Instrument :

MSVOA_N

ClientSampleId :

EP1-240-UST-SLUDGE

Tot Ion:168 Resp: 793896

Ion Ratio Lower Upper

168 100

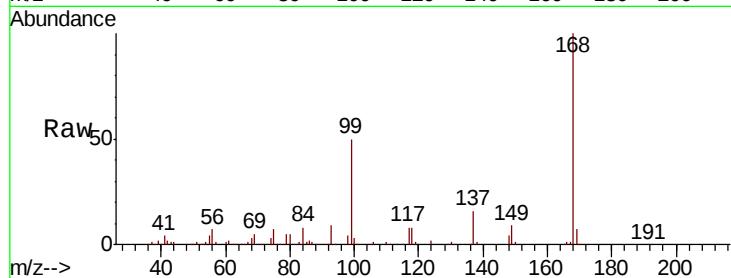
99 49.7 39.6 59.4

Manual Integrations

APPROVED

MMDadoda

8/23/2018 12:27:09 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

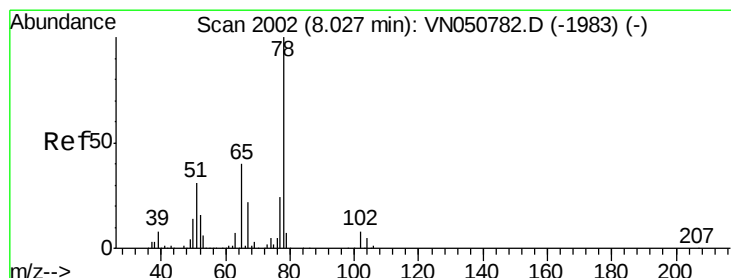
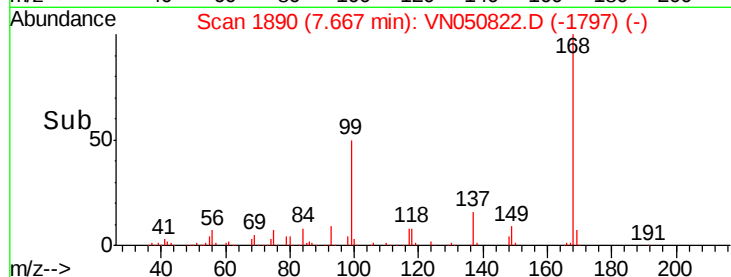
300000

200000

100000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.09 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050822.D

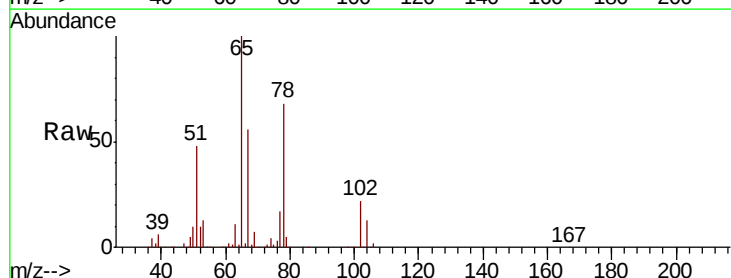
Acq: 22 Aug 2018 16:16

Tgt Ion: 65 Resp: 459655

Ion Ratio Lower Upper

65 100

67 54.8 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN

Ion 66.90 (66.60 to 67.60): VN

8.03

200000

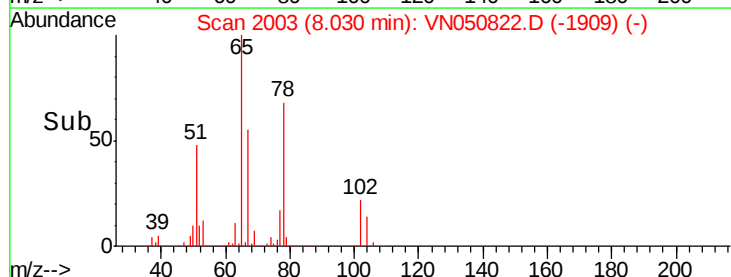
150000

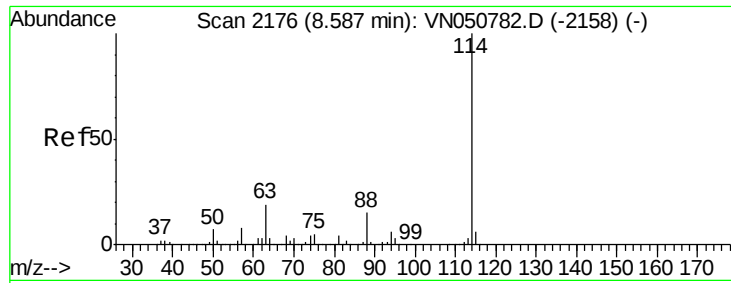
100000

50000

0

Time-->





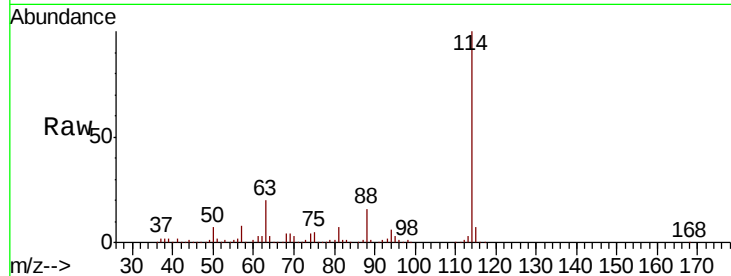
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050822.D
 Acq: 22 Aug 2018 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-240-UST-SLUDGE

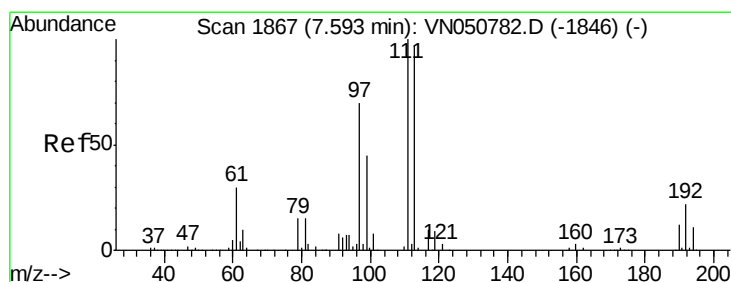
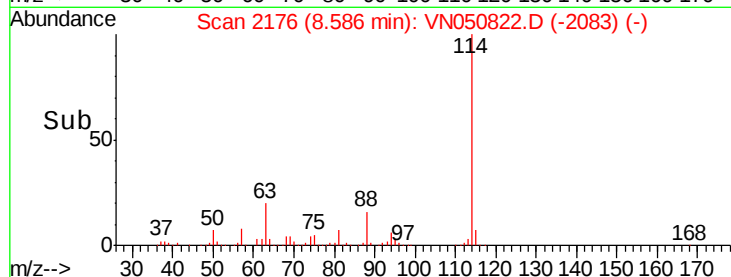
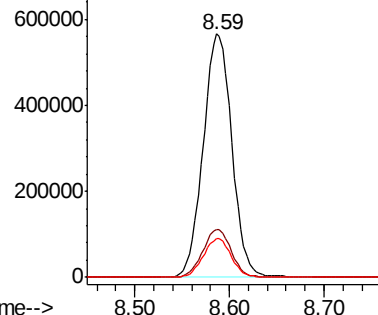
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	38.6
88	15.8	0.0	30.6

Manual Integrations
 APPROVED

MMDadoda
 8/23/2018 12:27:09 PM

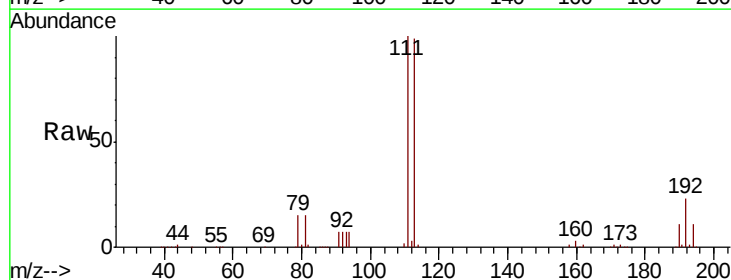


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

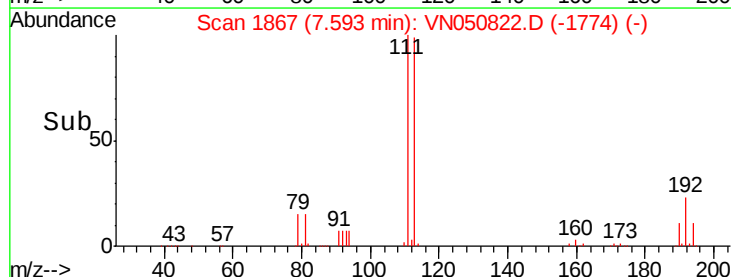
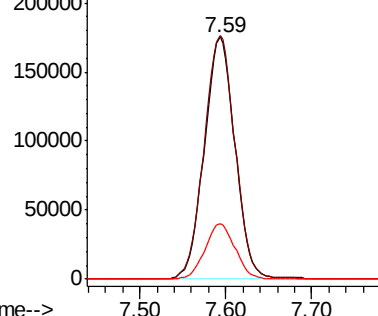


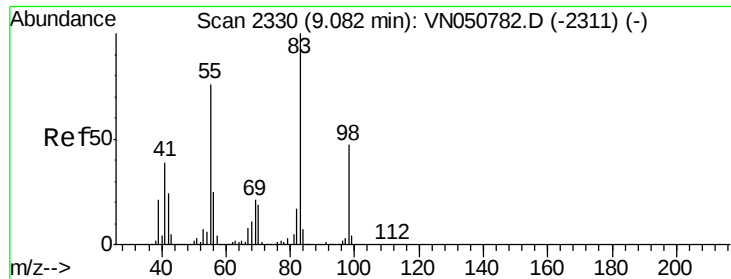
#35
 Dibromofluoromethane
 Concen: 45.78 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050822.D
 Acq: 22 Aug 2018 16:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.6	123.8
192	22.4	18.0	27.0



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





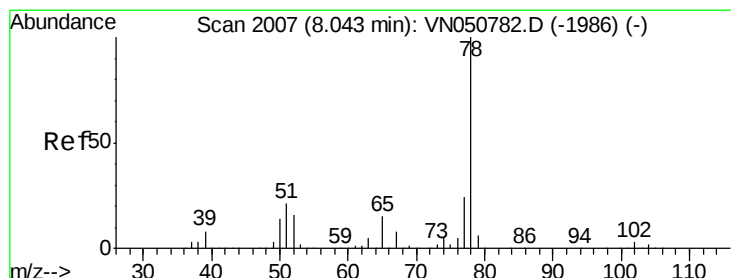
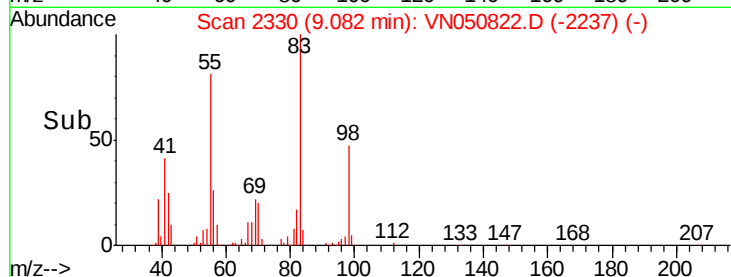
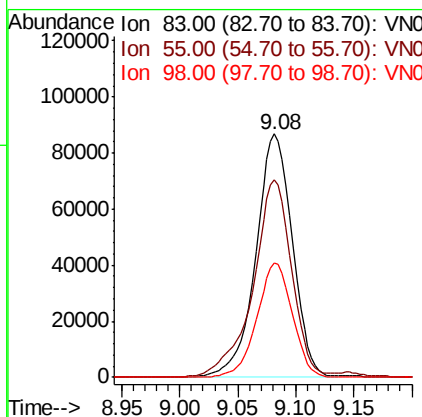
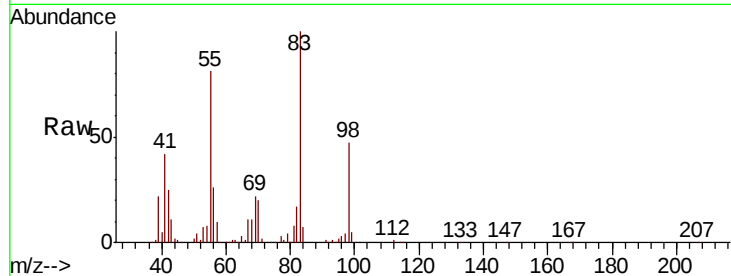
#39
Methvlcvclohexane
Concen: 12.52 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Instrument :
MSVOA_N
ClientSampleId :
EP1-240-UST-SLUDGE

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	80.7	61.0	91.4	
98	46.9	37.5	56.3	

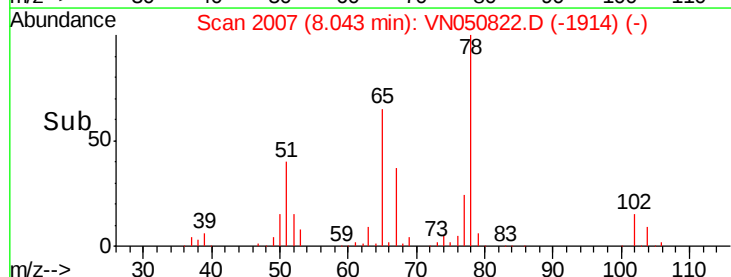
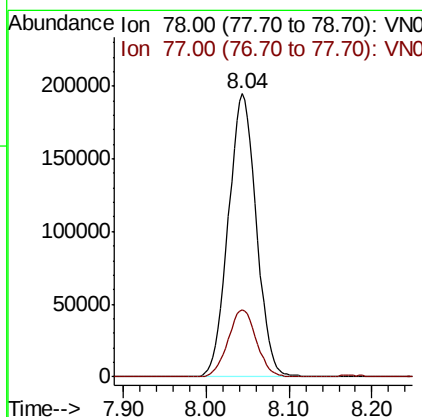
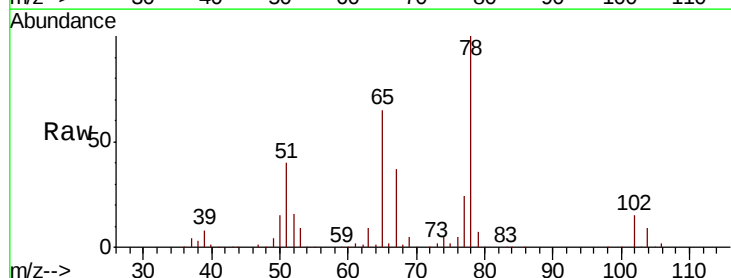
Manual Integrations
APPROVED

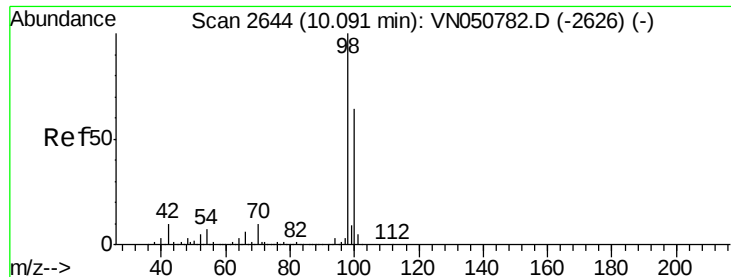
MMDadoda
8/23/2018 12:27:09 PM



#40
Benzene
Concen: 10.80 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.7	19.0	28.4	





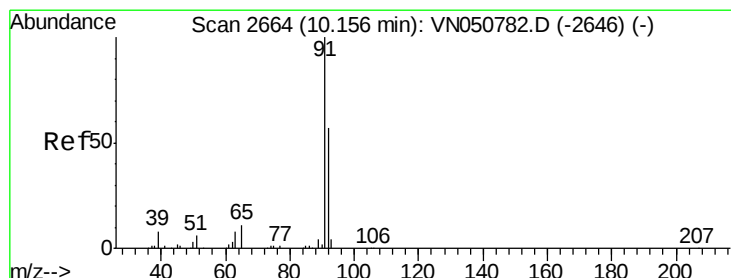
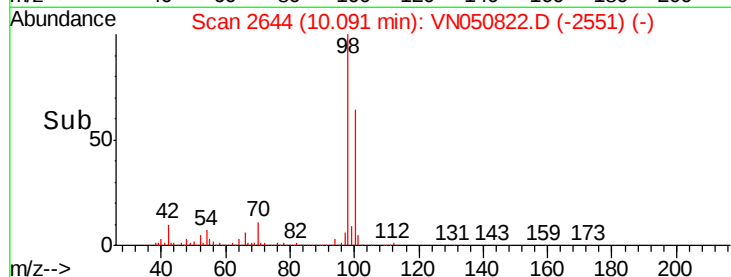
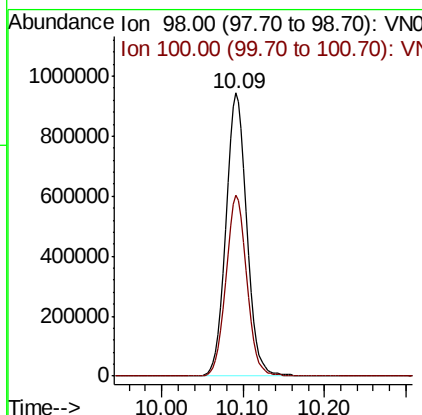
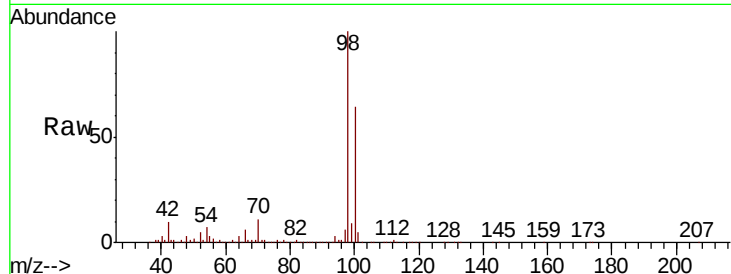
#50
Toluene-d8
Concen: 48.21 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Instrument :
MSVOA_N
ClientSampleId :
EP1-240-UST-SLUDGE

Tot Ion: 98 Resp: 1710364
Ion Ratio Lower Upper
98 100
100 64.0 51.5 77.3

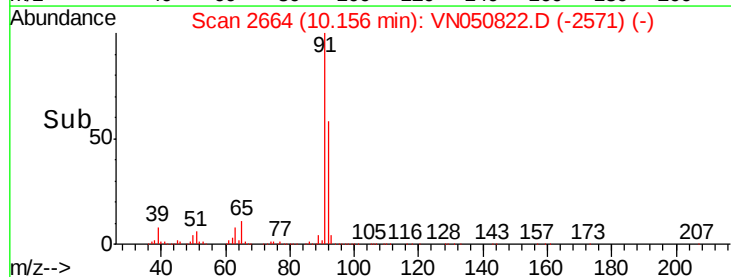
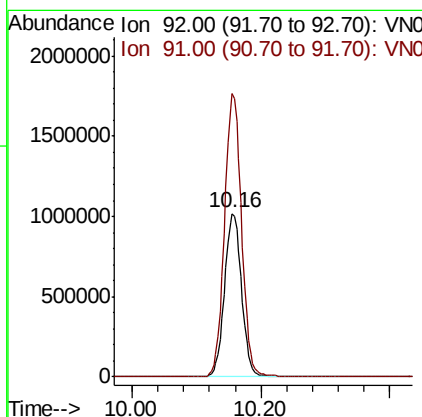
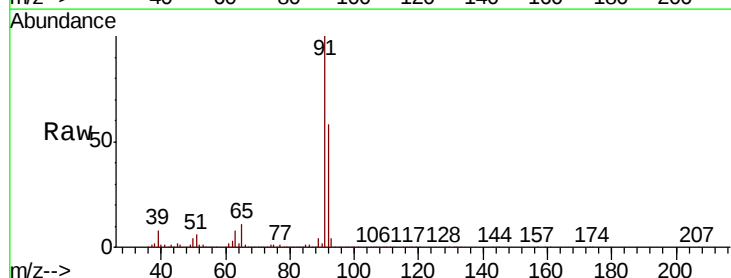
Manual Integrations
APPROVED

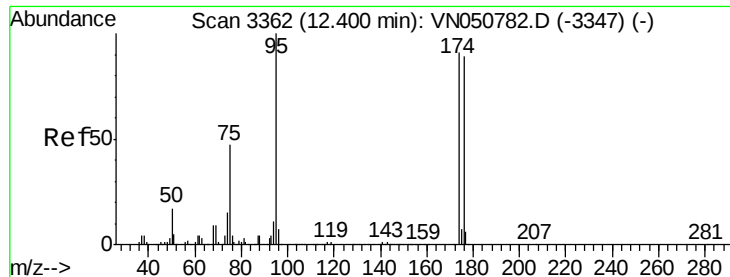
MMDadoda
8/23/2018 12:27:09 PM



#52
Toluene
Concen: 74.06 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Tgt Ion: 92 Resp: 1862054
Ion Ratio Lower Upper
92 100
91 173.2 140.6 211.0





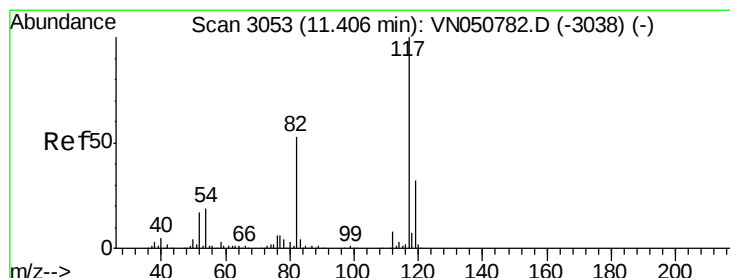
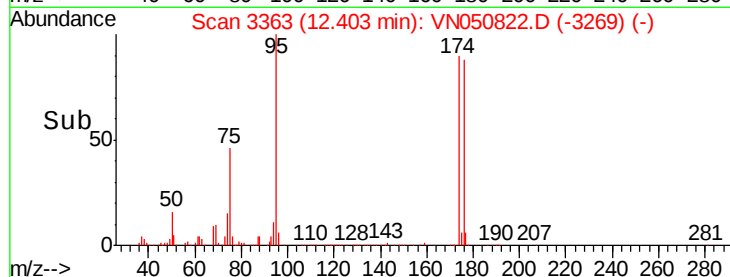
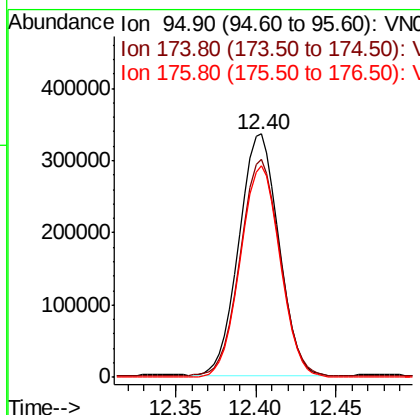
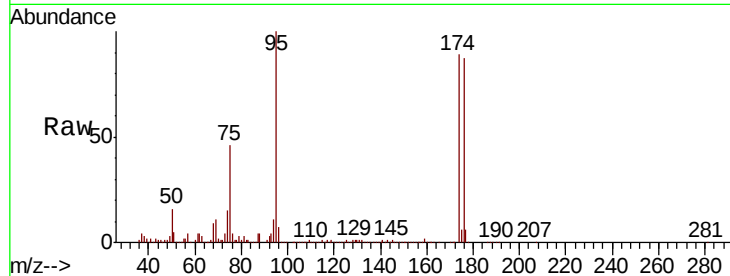
#62
 4-Bromofluorobenzene
 Concen: 48.13 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050822.D
 Acq: 22 Aug 2018 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-240-UST-SLUDGE

Tot Ion	Ratio	Resp	Lower	Upper
95	100	567418		
174	89.1	0.0	183.0	
176	87.6	0.0	178.8	

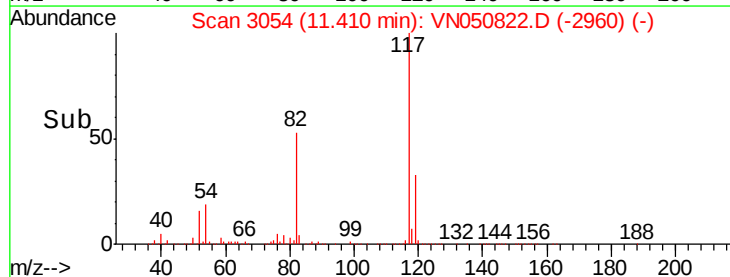
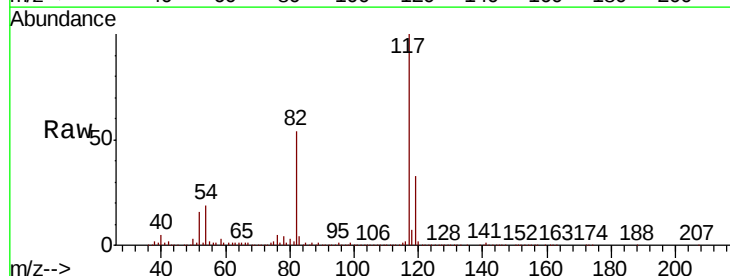
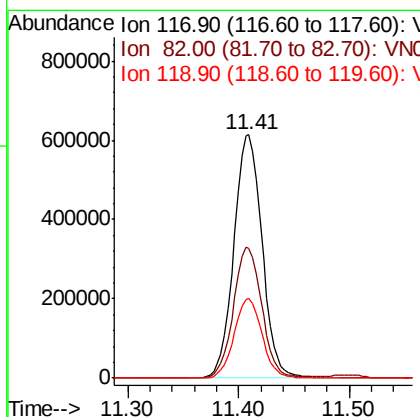
Manual Integrations
 APPROVED

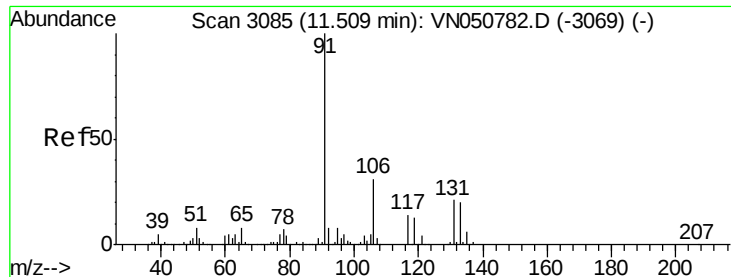
MMDadoda
 8/23/2018 12:27:09 PM



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 11.41 min Scan# 3054
 Delta R.T. 0.00 min
 Lab File: VN050822.D
 Acq: 22 Aug 2018 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1085472		
82	53.3	42.6	64.0	
119	32.6	25.8	38.6	





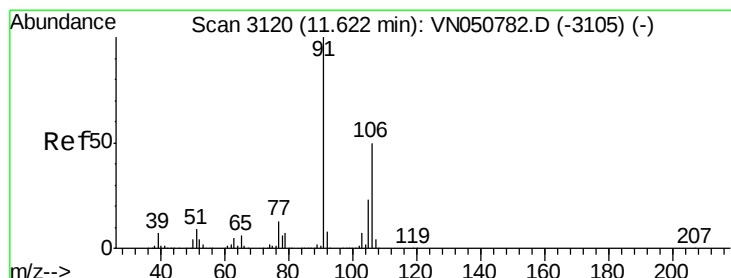
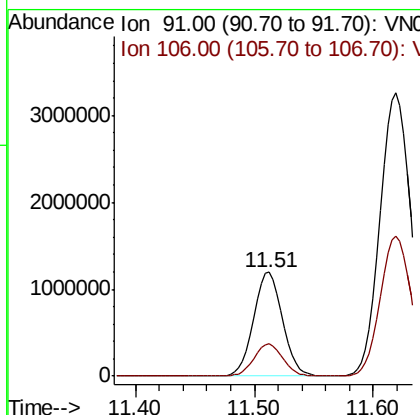
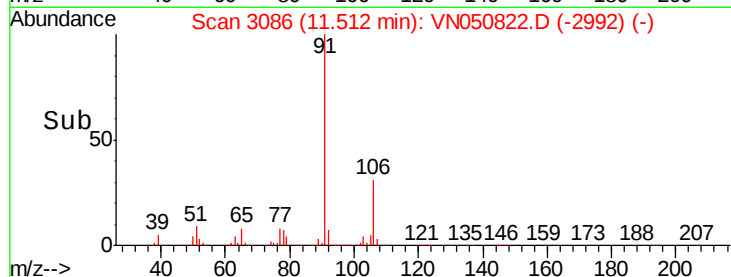
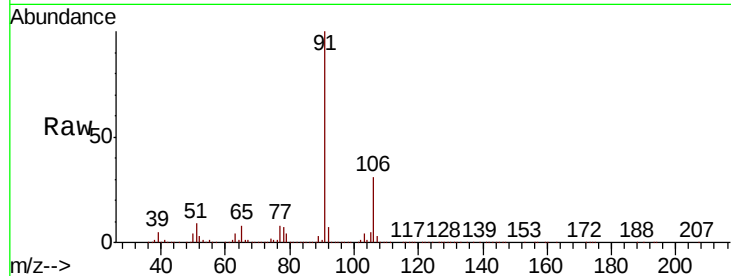
#67
Ethyl Benzene
Concen: 43.60 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Instrument :
MSVOA_N
ClientSampleId :
EP1-240-UST-SLUDGE

Tot Ion: 91 Resp: 2010832
Ion Ratio Lower Upper
91 100
106 31.1 25.0 37.4

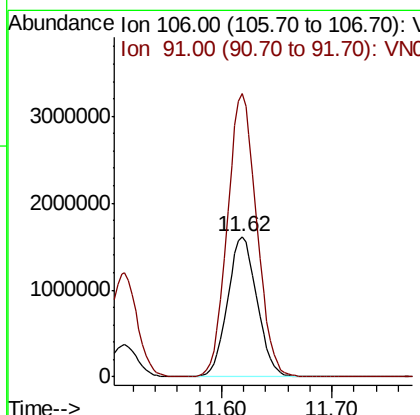
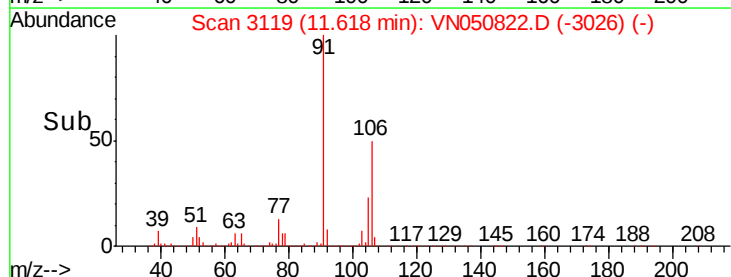
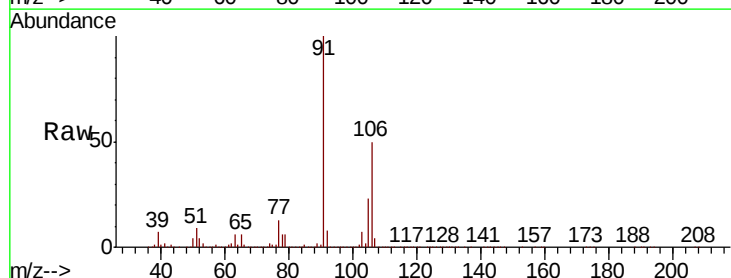
Manual Integrations
APPROVED

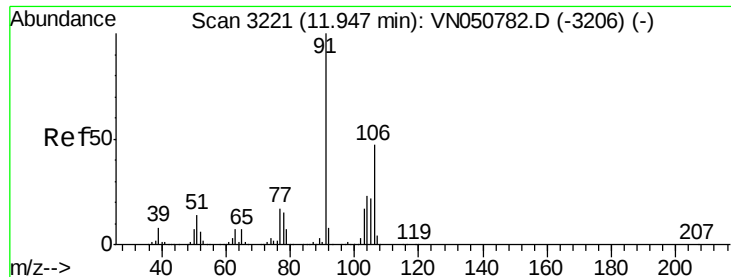
MMDadoda
8/23/2018 12:27:09 PM



#68
m/p-Xylenes
Concen: 169.89 ug/l
RT: 11.62 min Scan# 3119
Delta R.T. -0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Tgt Ion: 106 Resp: 2974344
Ion Ratio Lower Upper
106 100
91 201.5 161.0 241.6





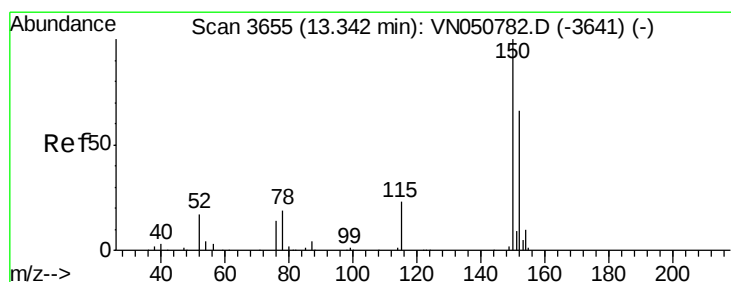
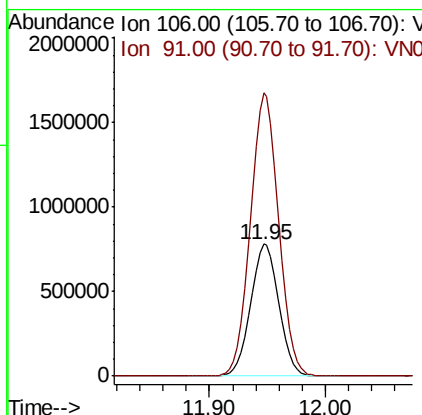
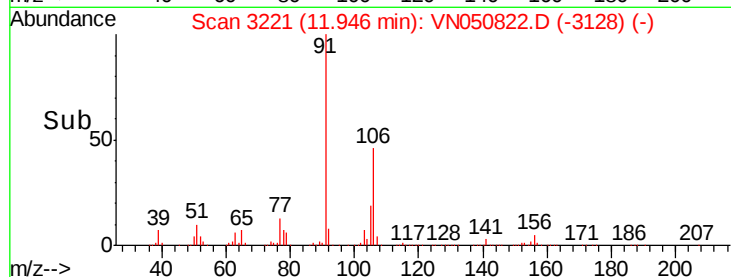
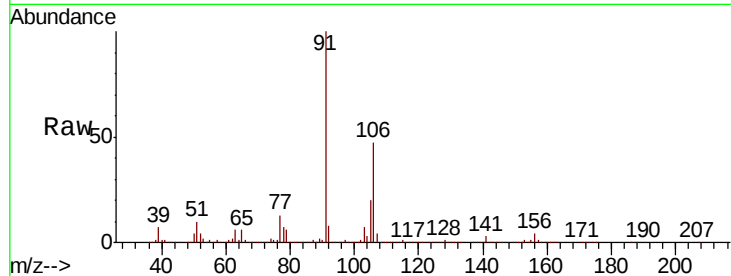
#69
o-Xylene
Concen: 78.63 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Instrument :
MSVOA_N
ClientSampleId :
EP1-240-UST-SLUDGE

Tot Ion:106 Resp: 1323458
Ion Ratio Lower Upper
106 100
91 214.0 106.5 319.5

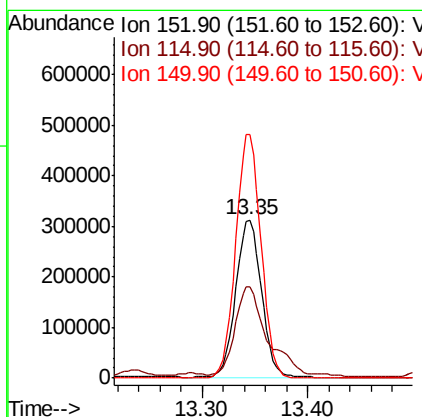
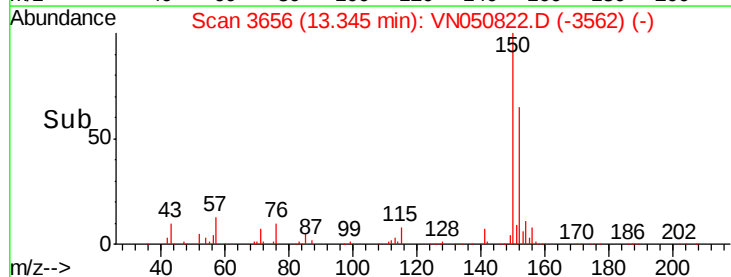
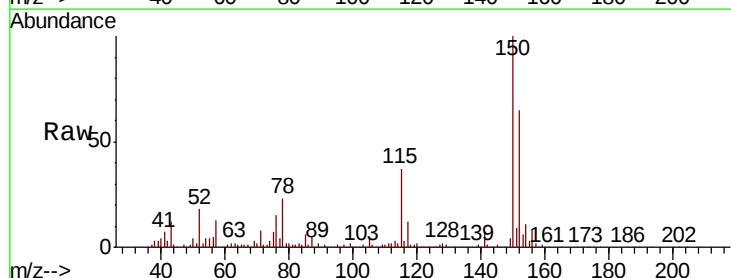
Manual Integrations
APPROVED

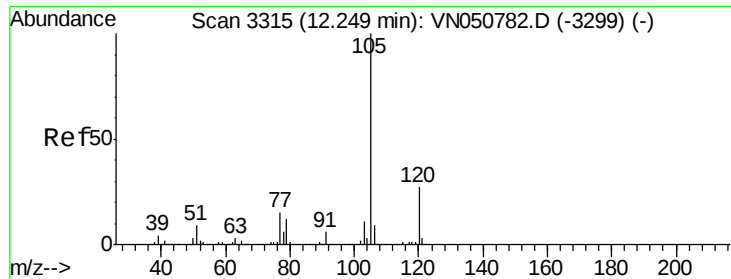
MMDadoda
8/23/2018 12:27:09 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Tgt Ion:152 Resp: 527611
Ion Ratio Lower Upper
152 100
115 68.0 27.8 83.4
150 151.1 0.0 351.4





#73

Isopropylbenzene

Concen: 6.77 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050822.D

Acq: 22 Aug 2018 16:16

Instrument :

MSVOA_N

ClientSampleId :

EP1-240-UST-SLUDGE

Tot Ion: 105 Resp: 295819

Ion Ratio Lower Upper

105 100

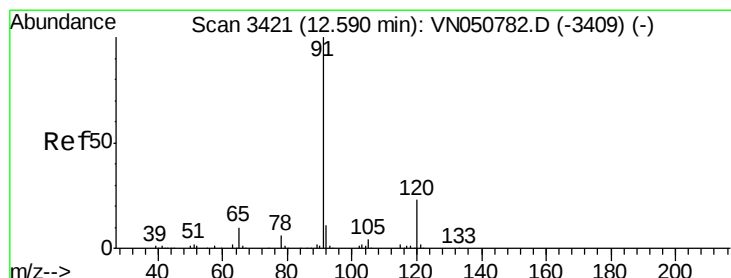
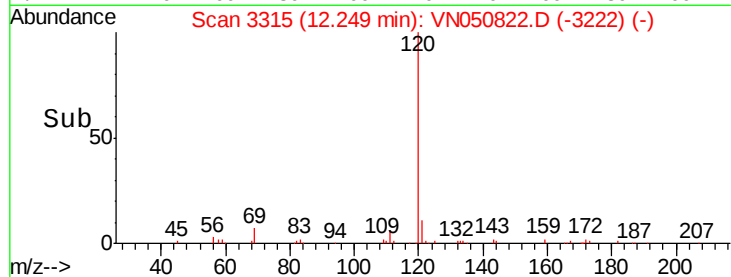
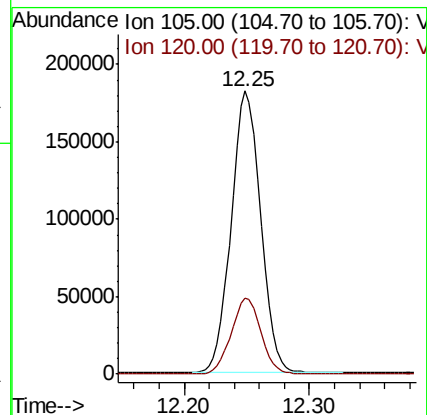
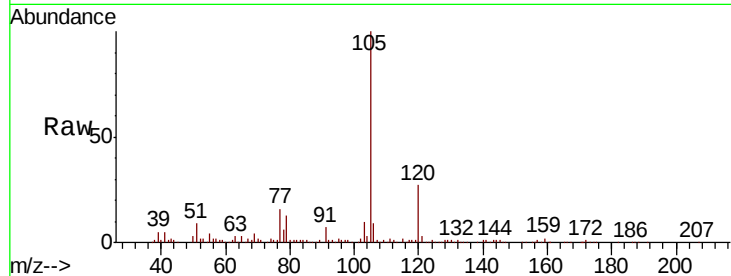
120 26.9 13.5 40.4

Manual Integrations

APPROVED

MMDadoda

8/23/2018 12:27:09 PM



#78

n-propylbenzene

Concen: 22.25 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050822.D

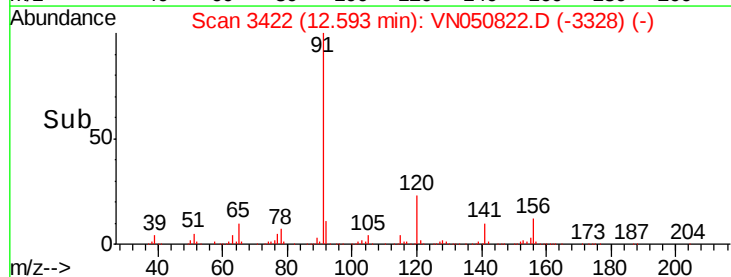
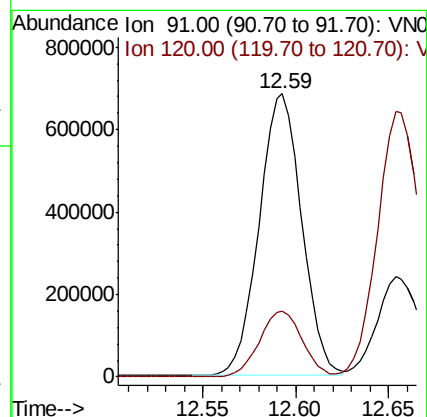
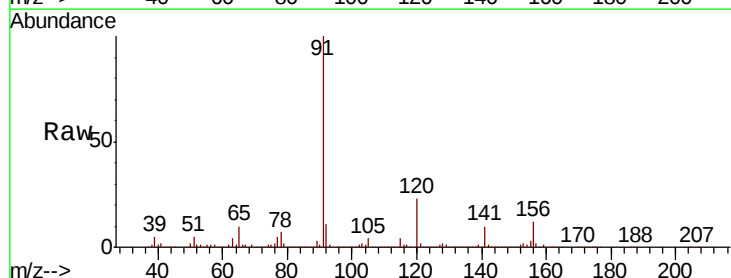
Acq: 22 Aug 2018 16:16

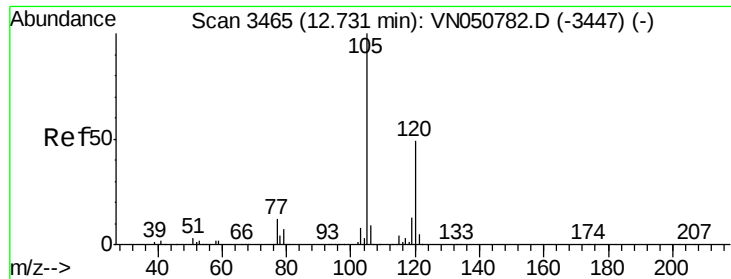
Tgt Ion: 91 Resp: 1085825

Ion Ratio Lower Upper

91 100

120 23.6 11.7 35.0





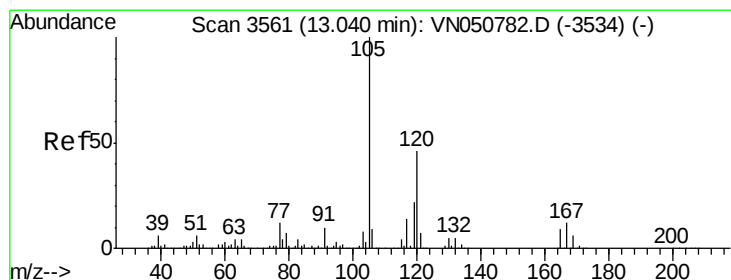
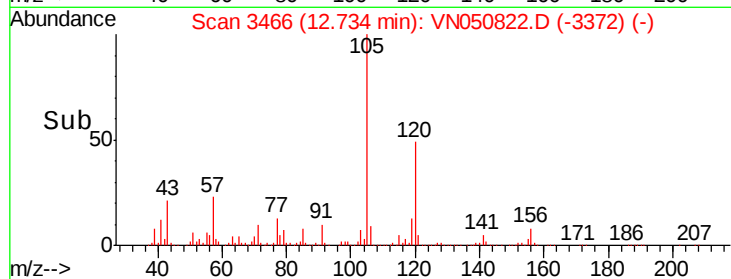
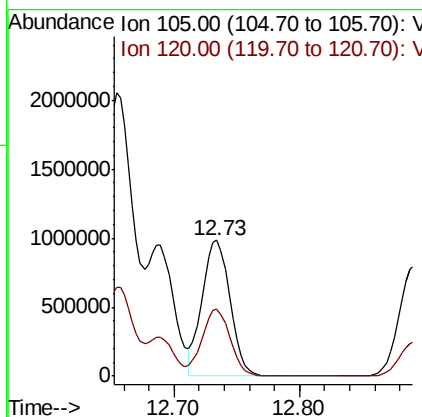
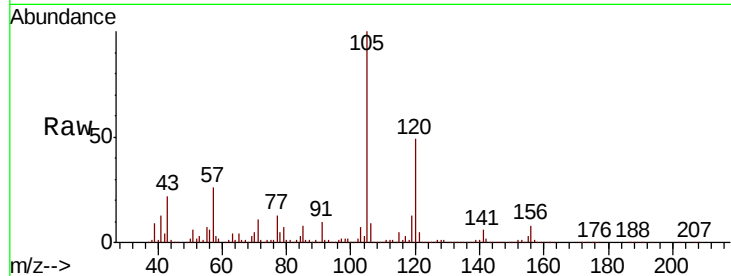
#80
 1,3,5-Trimethylbenzene
 Concen: 43.33 ug/l
 RT: 12.73 min Scan# 3466
 Delta R.T. 0.00 min
 Lab File: VN050822.D
 Acq: 22 Aug 2018 16:16

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-240-UST-SLUDGE

Tot Ion:105 Resp: 1527443
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.6 74.0

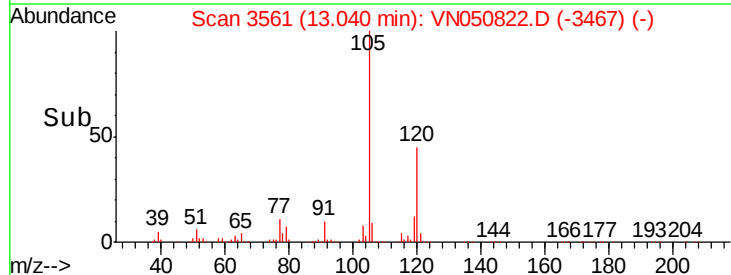
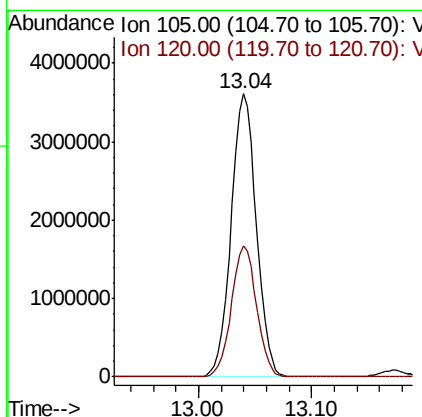
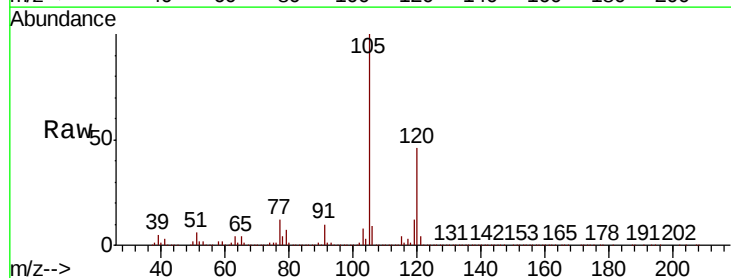
Manual Integrations
 APPROVED

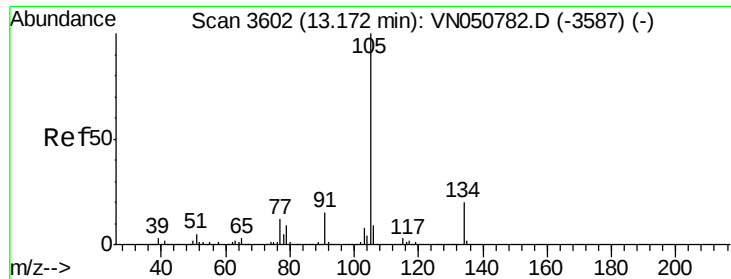
MMDadoda
 8/23/2018 12:27:09 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 157.12 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050822.D
 Acq: 22 Aug 2018 16:16

Tgt Ion:105 Resp: 5571383
 Ion Ratio Lower Upper
 105 100
 120 46.3 22.9 68.8





#85

sec-Butylbenzene

Concen: 3.53 ug/l m

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050822.D

Acq: 22 Aug 2018 16:16

Instrument :

MSVOA_N

ClientSampleId :

EP1-240-UST-SLUDGE

Tot Ion:105 Resp: 141158

Ion Ratio Lower Upper

105 100

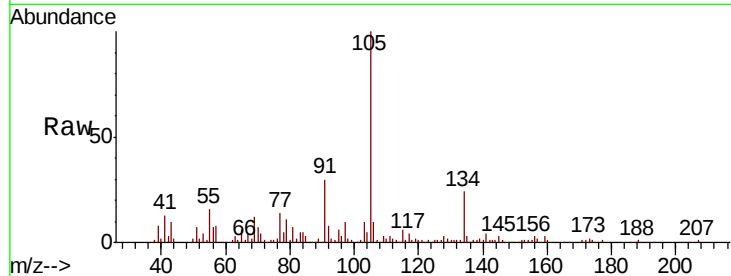
134 0.0 10.3 30.8#

Manual Integrations

APPROVED

MMDadoda

8/23/2018 12:27:09 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

80000

60000

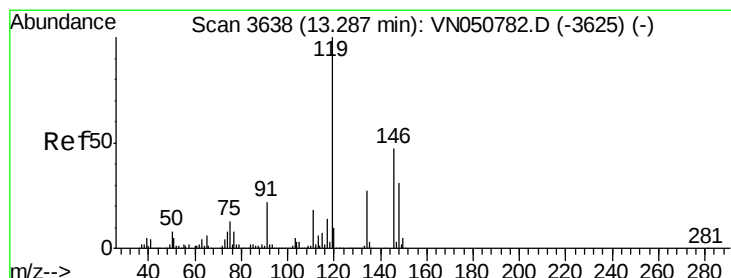
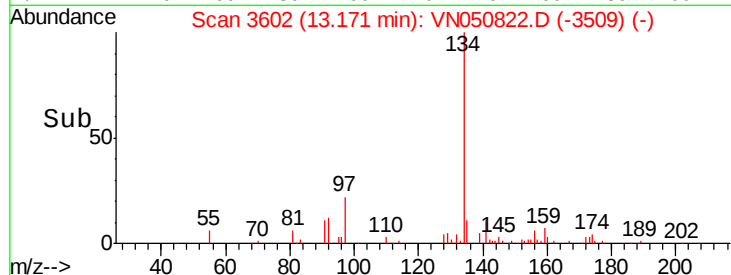
40000

20000

0

13.10 13.15 13.20

Time-->



#86

p-Isopropyltoluene

Concen: 3.54 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050822.D

Acq: 22 Aug 2018 16:16

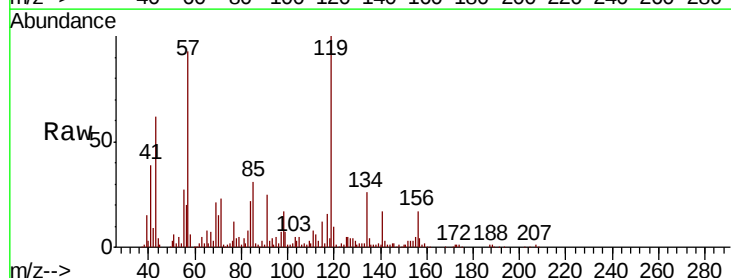
Tgt Ion:119 Resp: 120697

Ion Ratio Lower Upper

119 100

134 25.9 13.7 41.0

91 22.0 11.2 33.5



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): VNO

200000

150000

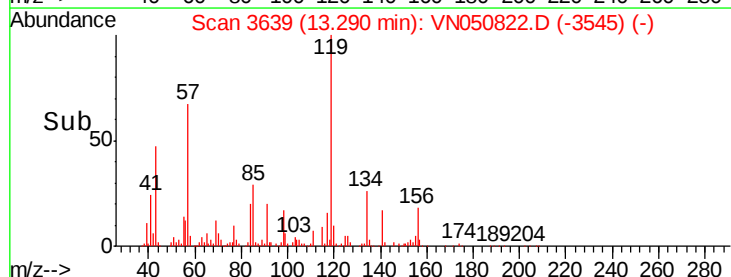
100000

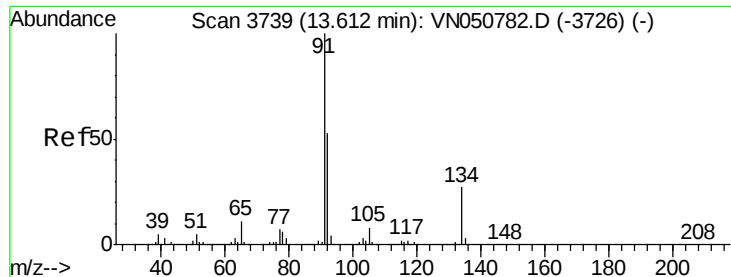
50000

0

13.25 13.30 13.35

Time-->





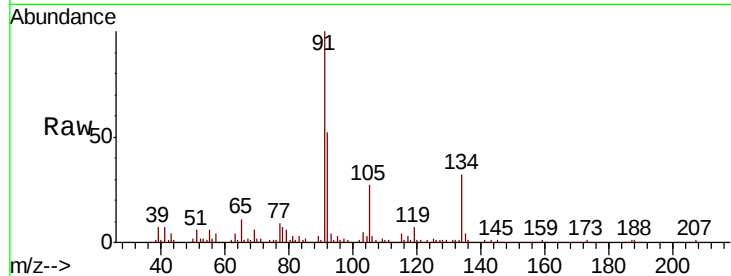
#89
n-Butylbenzene
Concen: 9.04 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Instrument :
MSVOA_N
ClientSampleId :
EP1-240-UST-SLUDGE

Tot Ion	Ratio	Lower	Upper
91	100		
92	65.8	26.1	78.2
134	0.0	13.2	39.6

Manual Integrations
APPROVED

MMDadoda
8/23/2018 12:27:09 PM

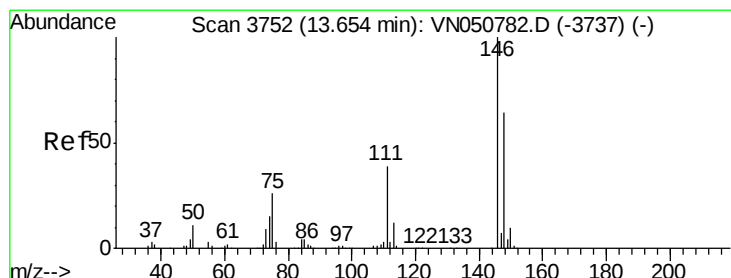
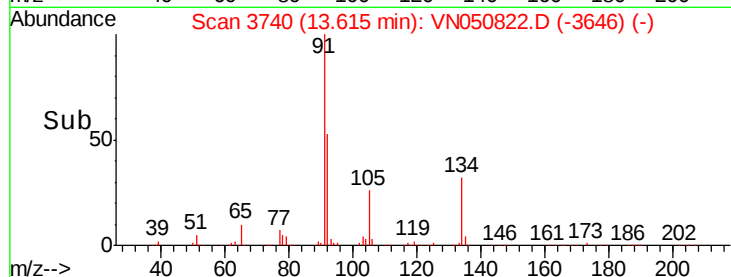
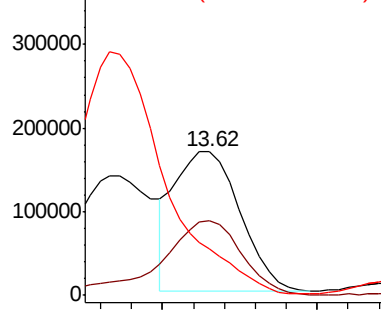


Abundance

Ion 91.00 (90.70 to 91.70): VN050822.D (-3726) (-)

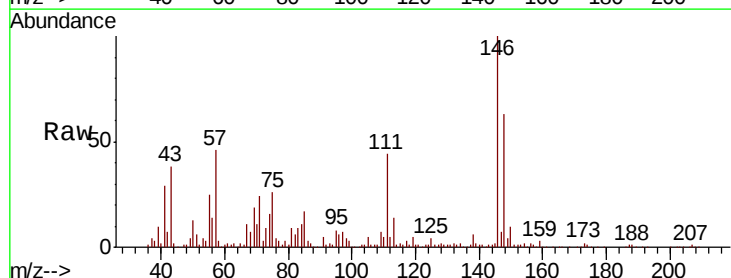
Ion 92.00 (91.70 to 92.70): VN050822.D (-3726) (-)

Ion 134.00 (133.70 to 134.70): VN050822.D (-3726) (-)



#91
1,2-Dichlorobenzene
Concen: 11.16 ug/l
RT: 13.65 min Scan# 3752
Delta R.T. -0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	19.8	59.3
148	63.3	32.3	96.8

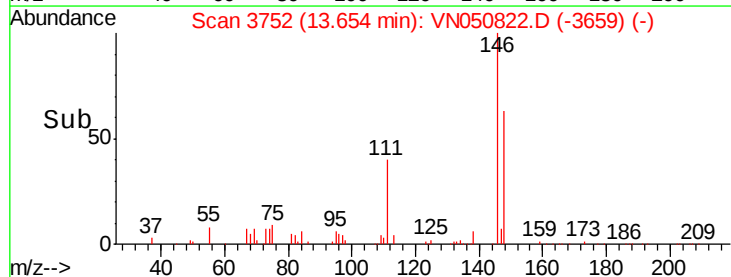
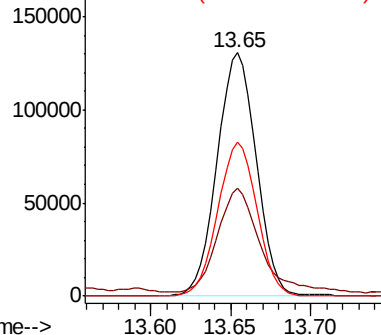


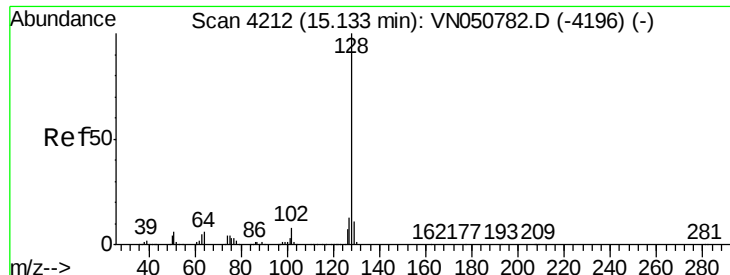
Abundance

Ion 145.90 (145.60 to 146.60): VN050822.D (-3659) (-)

Ion 110.90 (110.60 to 111.60): VN050822.D (-3659) (-)

Ion 147.90 (147.60 to 148.60): VN050822.D (-3659) (-)





#95
Naphthalene
Concen: 145.56 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050822.D
Acq: 22 Aug 2018 16:16

Instrument :
MSVOA_N
ClientSampleId :
EP1-240-UST-SLUDGE

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
8/23/2018 12:27:09 PM

