

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025667.D
 Acq On : 27 Jul 2018 14:24
 Operator : MD/SY
 Sample : J3762-07 LOD/MDL 0.2PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/31/2018 3:48:37 PM

Quant Time: Jul 30 13:26:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	166441	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	253621	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	244640	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	138890	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	133884	51.63	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.26%		
35) Dibromofluoromethane	4.89	113	107232	48.61	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.22%		
50) Toluene-d8	7.57	98	369803	47.91	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.82%		
62) 4-Bromofluorobenzene	10.31	95	134453	44.88	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.76%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	567	0.23	ug/l	89
3) Chloromethane	1.33	50	798	0.33	ug/l #	75
4) Vinyl Chloride	1.40	62	512	0.23	ug/l	93
7) Trichlorofluoromethane	1.89	101	668	0.20	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.28	101	609	0.32	ug/l	94
12) 1,1-Dichloroethene	2.28	96	522	0.29	ug/l	82
14) Allyl chloride	2.59	41	683	0.21	ug/l #	90
15) Acrylonitrile	2.94	53	1238	1.09	ug/l #	82
16) Acetone	2.33	43	1973	1.56	ug/l #	82
17) Carbon Disulfide	2.48	76	3588	0.62	ug/l #	91
20) Methylene Chloride	2.70	84	656	0.29	ug/l #	89
21) trans-1,2-Dichloroethene	2.98	96	678	0.33	ug/l	85
23) Vinyl Acetate	3.54	43	4413	0.80	ug/l #	92
25) 2-Butanone	4.27	43	1492	0.87	ug/l	92
27) cis-1,2-Dichloroethene	4.23	96	558	0.24	ug/l	88
29) Tetrahydrofuran	4.65	42	955	0.93	ug/l	93
31) Cyclohexane	5.00	56	4169	Below Cal	#	37
36) 1,1-Dichloropropene	5.14	75	750	0.25	ug/l #	73
39) Methylcyclohexane	6.43	83	1059	0.31	ug/l #	78
40) Benzene	5.40	78	1824	0.21	ug/l #	87
44) Trichloroethene	6.19	130	860	0.36	ug/l	96
51) 4-Methyl-2-Pentanone	7.47	43	2620	0.82	ug/l	97
52) Toluene	7.64	92	1078	0.20	ug/l	82
58) 2-Chloroethyl Vinyl ether	7.14	63	793	7.61	ug/l #	58
59) 2-Hexanone	8.37	43	2145	0.86	ug/l	96
64) Tetrachloroethene	8.23	164	735	0.34	ug/l #	82
65) Chlorobenzene	9.12	112	1623	0.26	ug/l	89
67) Ethyl Benzene	9.26	91	2349	0.22	ug/l	91
68) m/p-Xylenes	9.38	106	1352	0.34	ug/l #	58
70) Styrene	9.80	104	1273	0.20	ug/l	96
73) Isopropylbenzene	10.17	105	2081	0.22	ug/l	92
74) N-amyl acetate	10.02	43	933	0.24	ug/l #	64
77) Bromobenzene	10.46	156	558	0.21	ug/l	69
78) n-propylbenzene	10.59	91	2651	0.24	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072718\
 Data File : VU025667.D
 Acq On : 27 Jul 2018 14:24
 Operator : MD/SY
 Sample : J3762-07 LOD/MDL 0.2PPB
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/31/2018 3:48:37 PM

Quant Time: Jul 30 13:26:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 13:11:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 2-Chlorotoluene	10.66	91	1620	0.25	ug/l	80
80) 1,3,5-Trimethylbenzene	10.78	105	1663	0.21	ug/l	94
82) 4-Chlorotoluene	10.78	91	2218	0.29	ug/l	97
84) 1,2,4-Trimethylbenzene	11.15	105	1700	0.21	ug/l	97
85) sec-Butylbenzene	11.33	105	2308	0.24	ug/l	95
86) p-Isopropyltoluene	11.48	119	2287	0.26	ug/l #	80
87) 1,3-Dichlorobenzene	11.43	146	1778	0.37	ug/l	96
88) 1,4-Dichlorobenzene	11.51	146	2314m	0.46	ug/l	
89) n-Butylbenzene	11.90	91	2359	0.29	ug/l	95
91) 1,2-Dichlorobenzene	11.89	146	1360	0.29	ug/l	86
93) 1,2,4-Trichlorobenzene	13.51	180	1063	0.33	ug/l	83
94) Hexachlorobutadiene	13.70	225	622	0.37	ug/l	81
95) Naphthalene	13.75	128	2296	1.47	ug/l #	86
96) 1,2,3-Trichlorobenzene	13.99	180	959	0.30	ug/l #	81

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

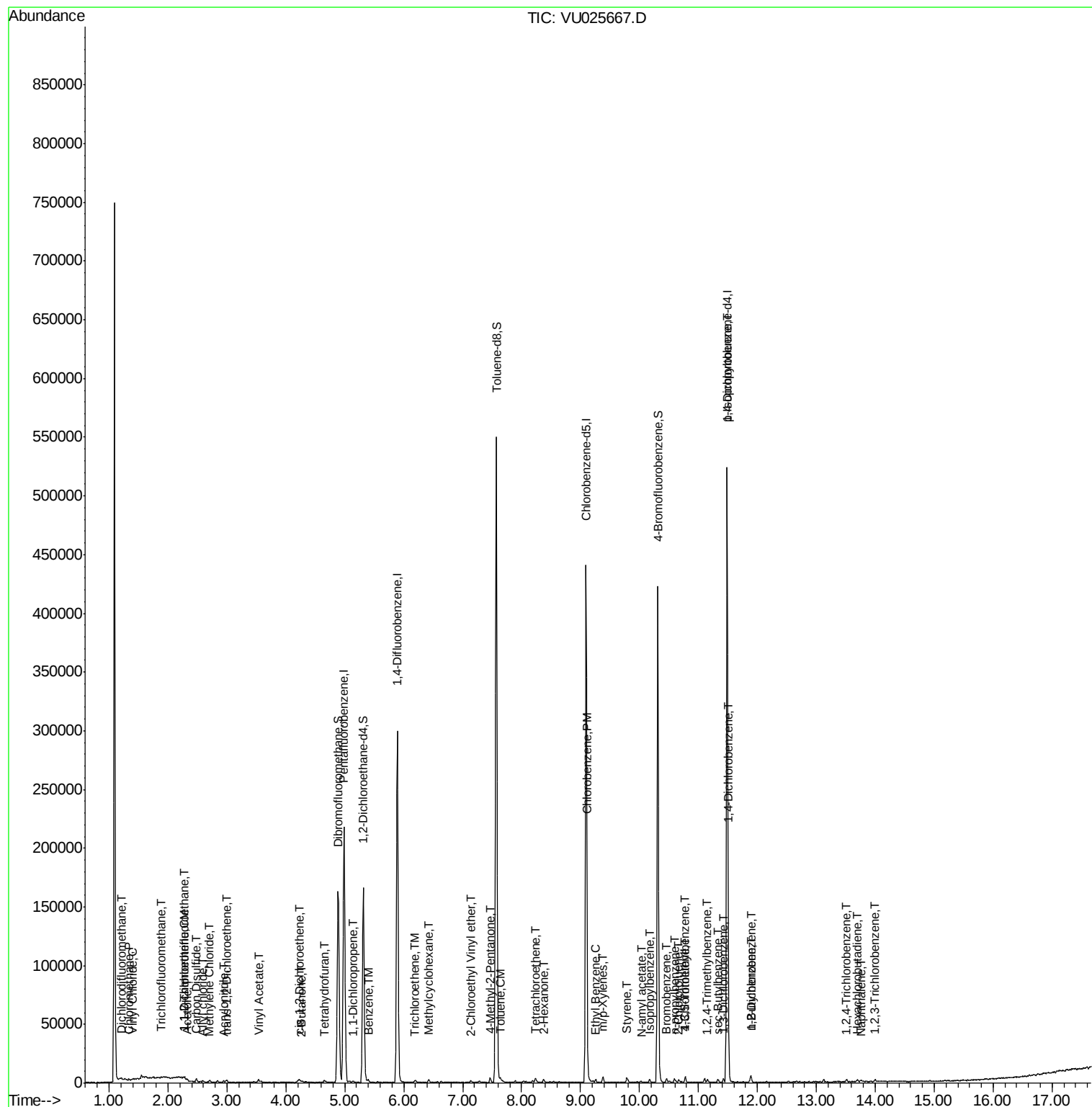
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU072718\
Data File : VU025667.D
Acq On : 27 Jul 2018 14:24
Operator : MD/SY
Sample : J3762-07 LOD/MDL 0.2PPB
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 11 Sample Multiplier: 1

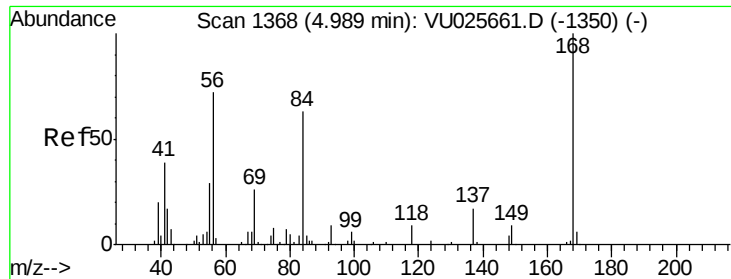
Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:48:37 PM

Quant Time: Jul 30 13:26:55 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U072718W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 27 13:11:52 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:168 Resp: 166441

Ion Ratio Lower Upper

168 100

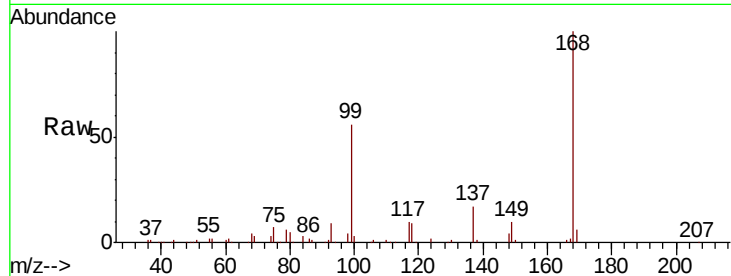
99 55.9 42.8 64.2

Manual Integrations

APPROVED

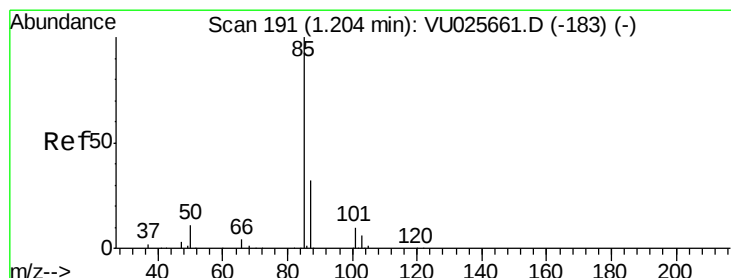
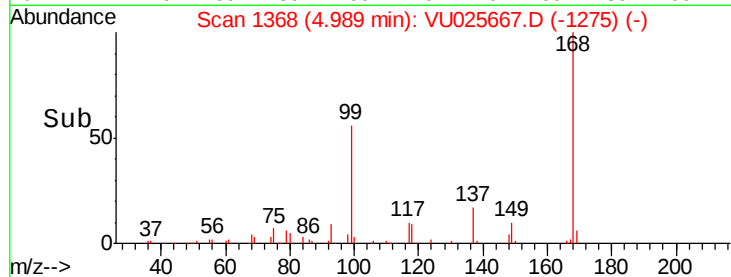
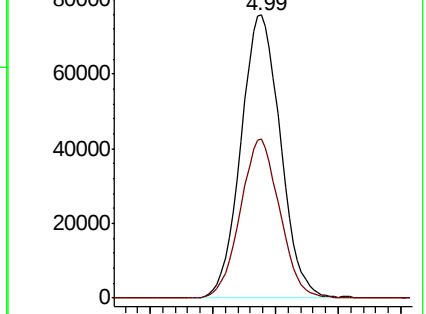
MMDadoda

7/31/2018 3:48:37 PM



Abundance Ion 167.90 (167.60 to 168.60): VU025667.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU025667.D (-1275) (-)



#2

Dichlorodifluoromethane

Concen: 0.23 ug/l

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU025667.D

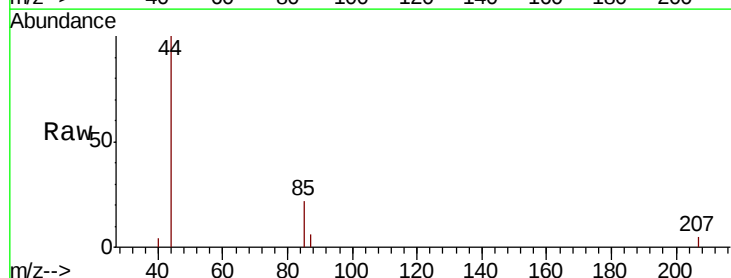
Acq: 27 Jul 2018 14:24

Tgt Ion: 85 Resp: 567

Ion Ratio Lower Upper

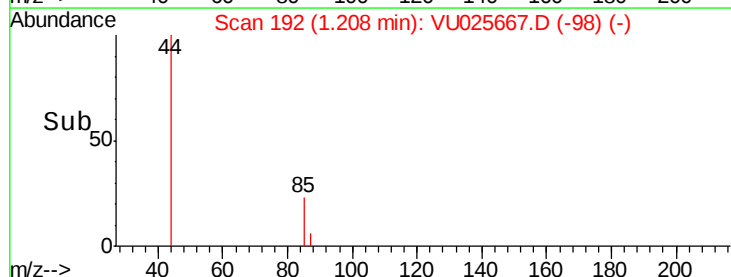
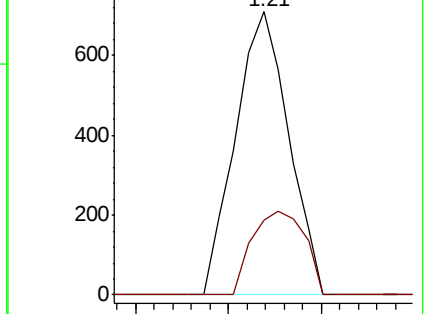
85 100

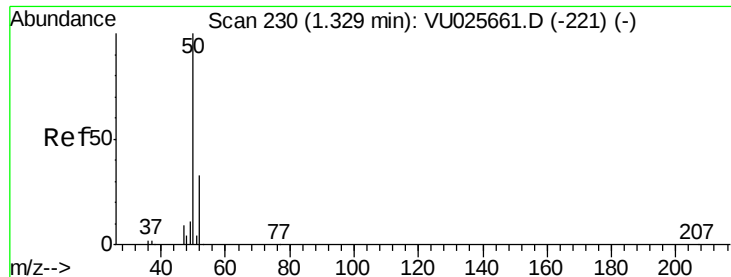
87 26.7 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU025667.D (-98) (-)

Ion 86.90 (86.60 to 87.60): VU025667.D (-98) (-)





#3

Chloromethane

Concen: 0.33 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 50 Resp: 798

Ion Ratio Lower Upper

50 100

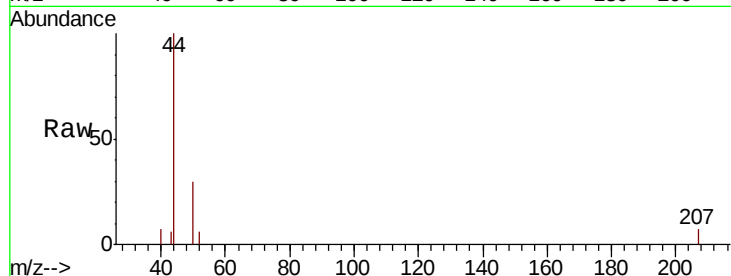
52 18.9 26.5 39.7#

Manual Integrations

APPROVED

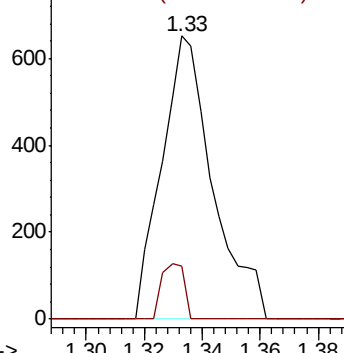
MMDadoda

7/31/2018 3:48:37 PM

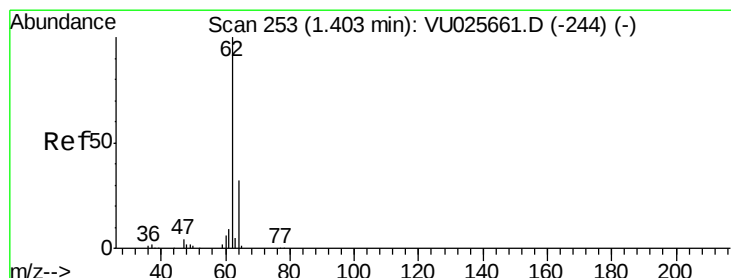
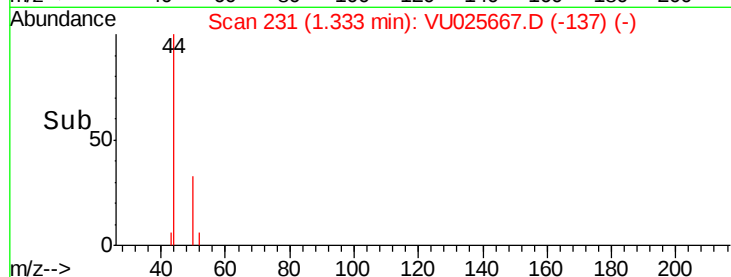


Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



Time-->



#4

Vinyl Chloride

Concen: 0.23 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025667.D

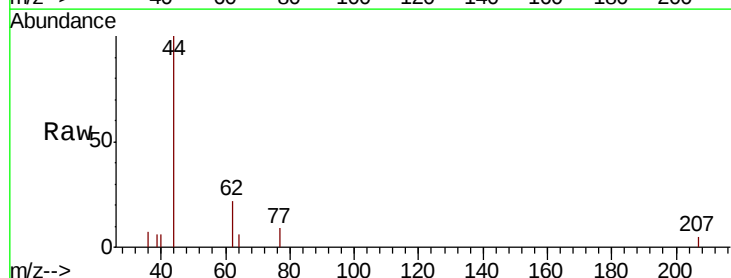
Acq: 27 Jul 2018 14:24

Tgt Ion: 62 Resp: 512

Ion Ratio Lower Upper

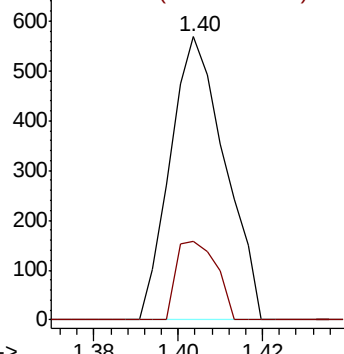
62 100

64 27.8 25.4 38.0

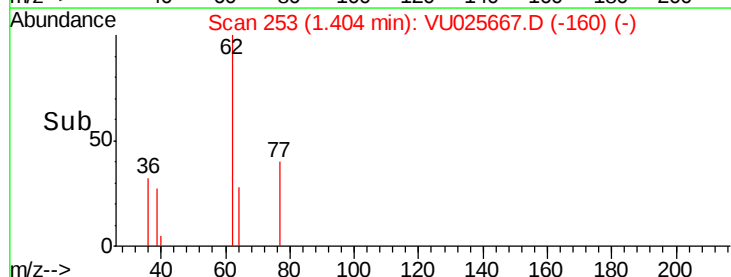


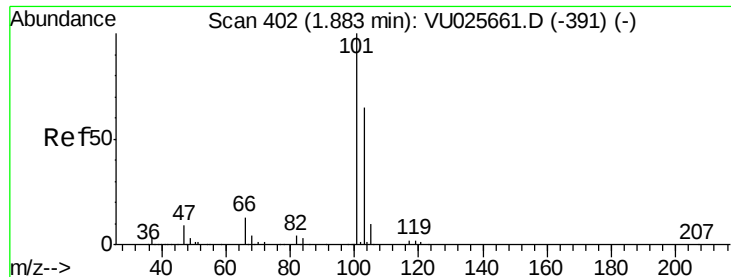
Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



Time-->





#7

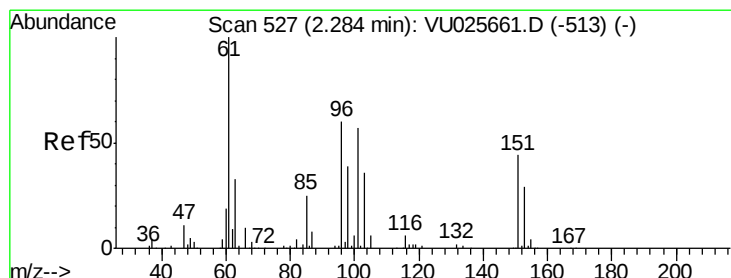
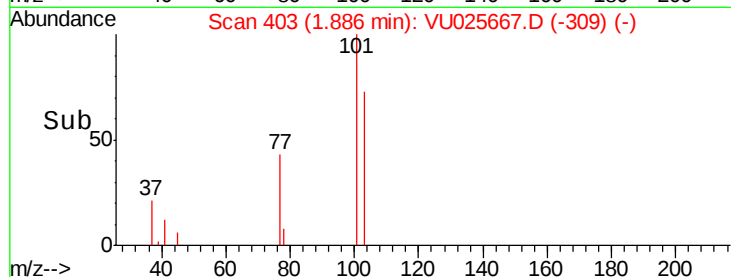
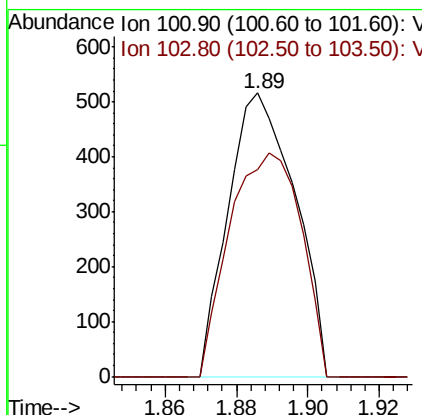
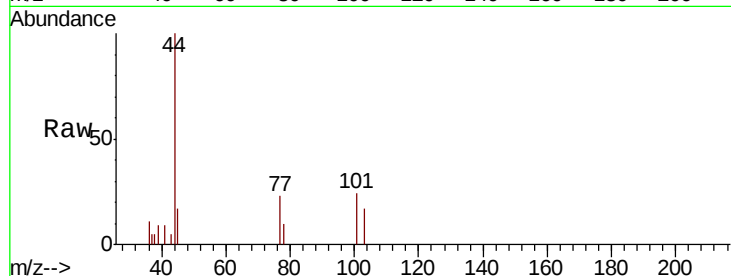
Trichlorofluoromethane
 Concen: 0.20 ug/l
 RT: 1.89 min Scan# 403
 Delta R.T. 0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
101	100		
103	72.9	52.2	78.2

Manual Integrations
 APPROVED

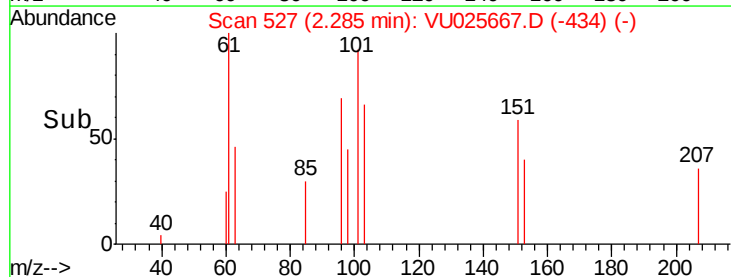
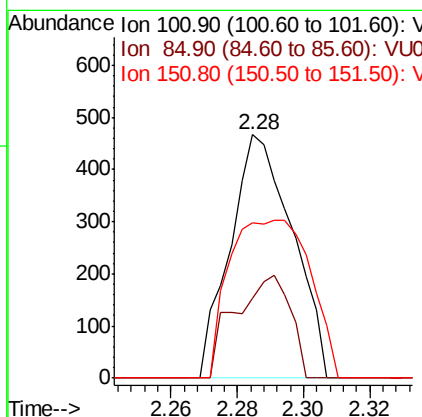
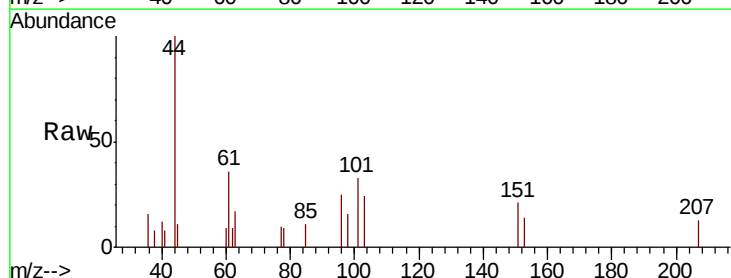
MMDadoda
 7/31/2018 3:48:37 PM

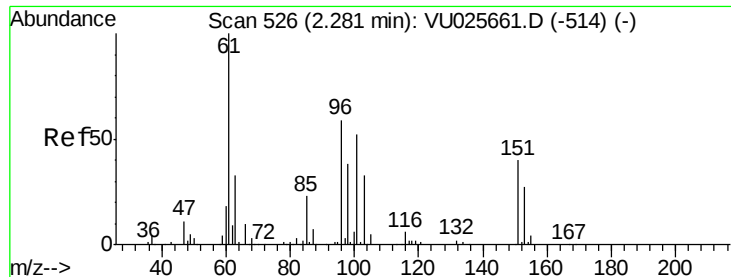


#9

1,1,2-Trichlorotrifluoroethane
 Concen: 0.32 ug/l
 RT: 2.28 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Tgt Ion	Ratio	Lower	Upper
101	100		
85	37.3	36.0	54.0
151	84.7	65.6	98.4





#12

1,1-Dichloroethene

Concen: 0.29 ug/l

RT: 2.28 min Scan# 526

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

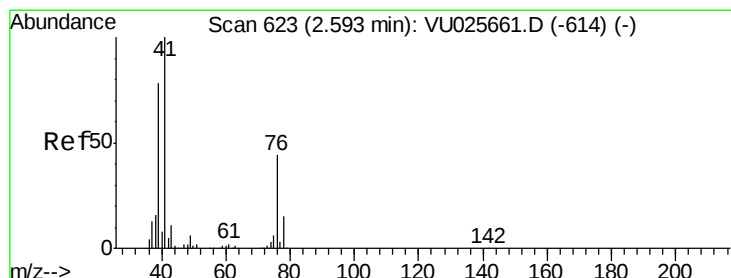
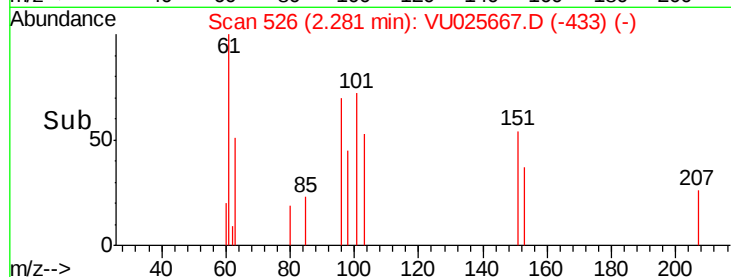
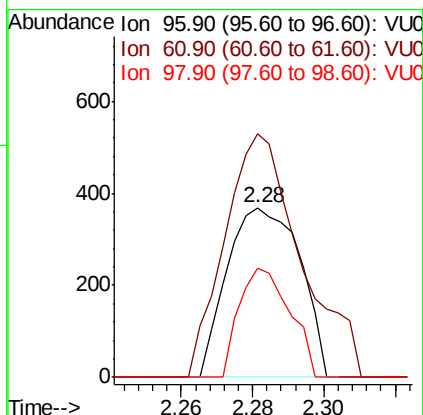
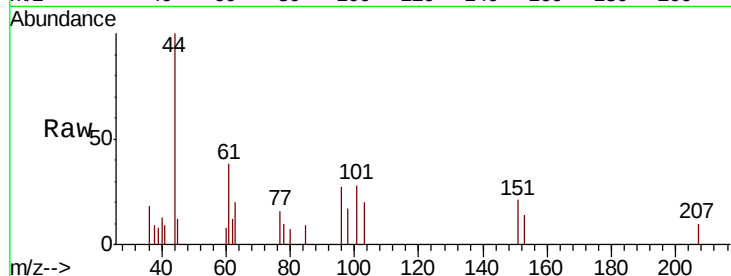
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	96	Resp:	522
Ion	Ratio	Lower	Upper
96	100		
61	143.4	140.2	210.4
98	64.5	49.3	73.9

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:48:37 PM



#14

Allyl chloride

Concen: 0.21 ug/l

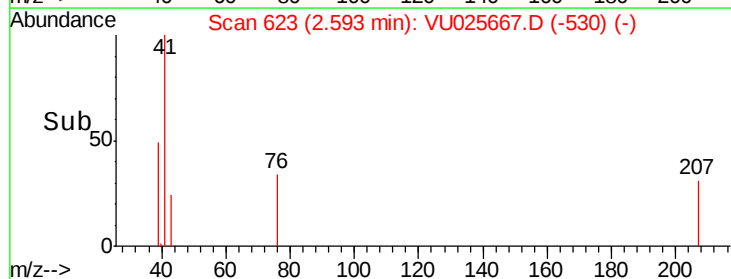
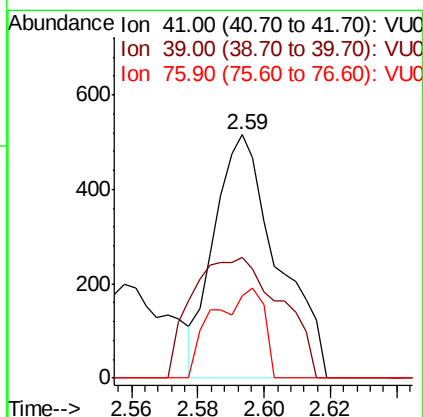
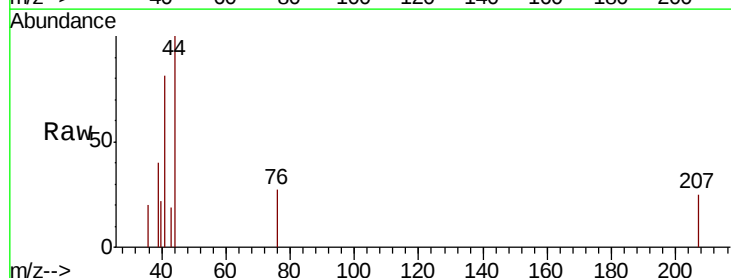
RT: 2.59 min Scan# 623

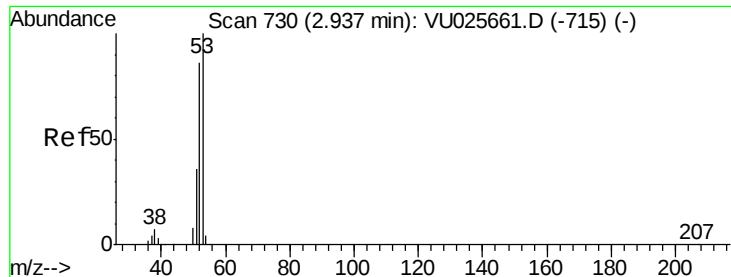
Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Tgt Ion:	41	Resp:	683
Ion	Ratio	Lower	Upper
41	100		
39	69.5	60.6	91.0
76	29.6	30.5	45.7#





#15

Acrylonitrile

Concen: 1.09 ug/l

RT: 2.94 min Scan# 732

Delta R.T. 0.01 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

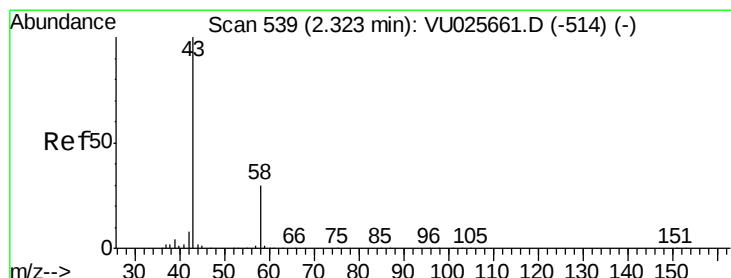
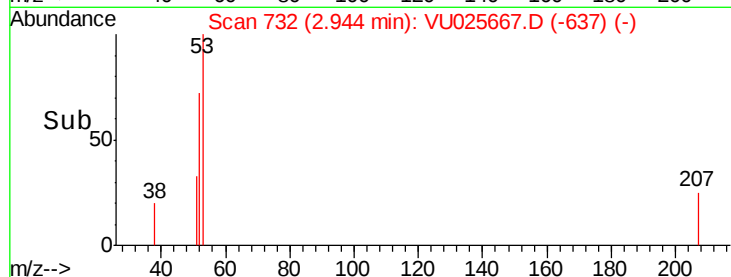
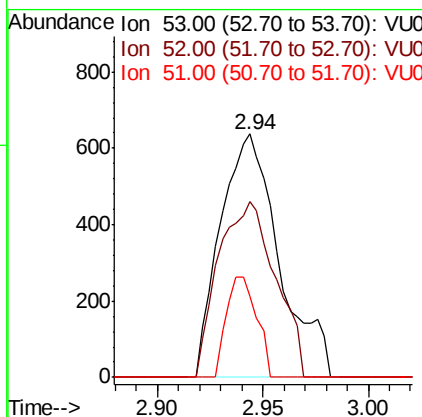
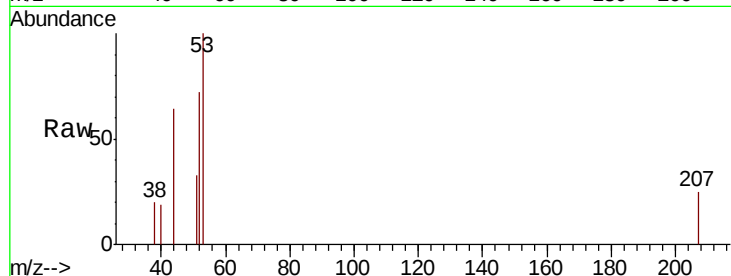
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	53	Resp:	1238
Ion Ratio	Lower	Upper	
53	100		
52	69.9	66.6	99.8
51	20.9	29.4	44.2#

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:48:37 PM



#16

Acetone

Concen: 1.56 ug/l

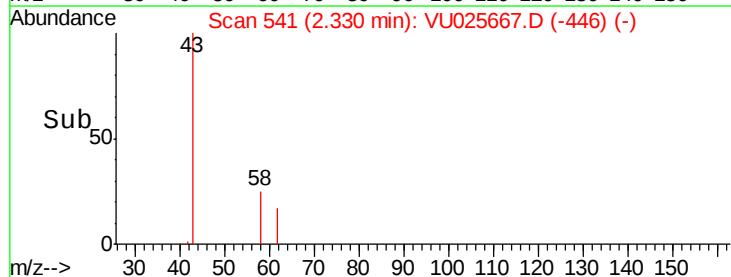
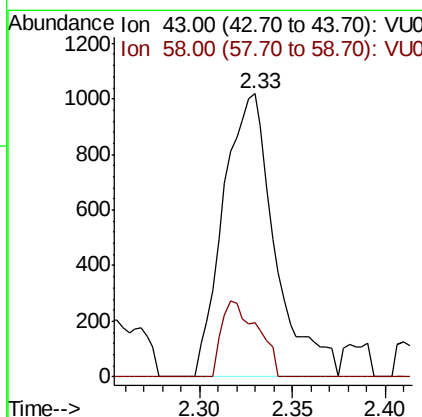
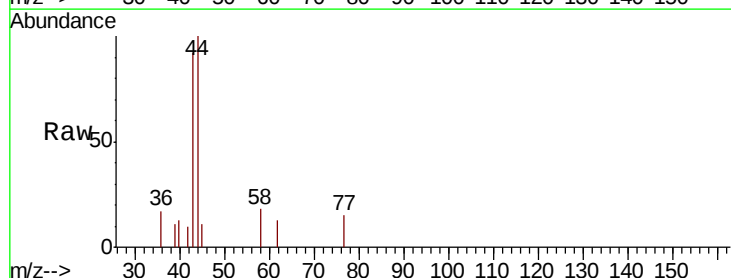
RT: 2.33 min Scan# 541

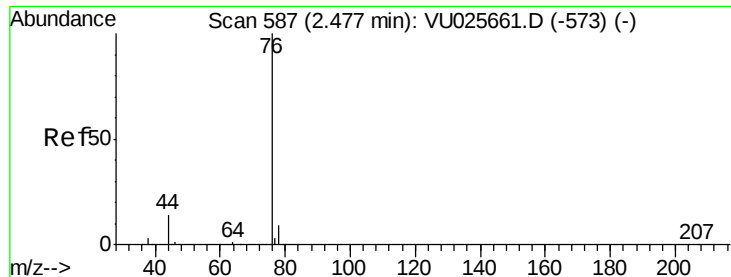
Delta R.T. 0.01 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Tgt Ion:	43	Resp:	1973
Ion Ratio	Lower	Upper	
43	100		
58	19.3	23.1	34.7#





#17

Carbon Disulfide

Concen: 0.62 ug/l

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 76 Resp: 3588

Ion Ratio Lower Upper

76 100

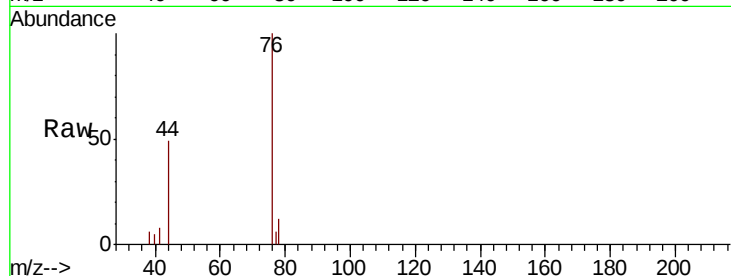
78 12.4 7.4 11.2#

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:48:37 PM



Abundance Ion 75.90 (75.60 to 76.60): VU025667.D (-573) (-)

Ion 77.90 (77.60 to 78.60): VU025667.D (-573) (-)

2500

2000

1500

1000

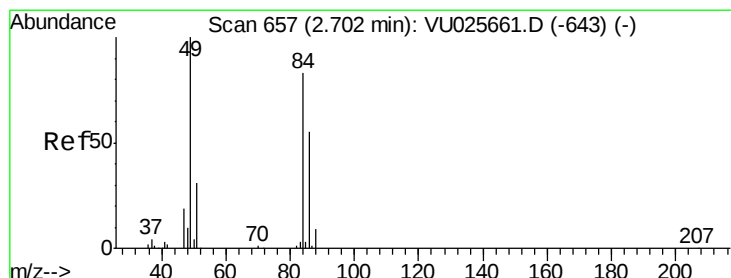
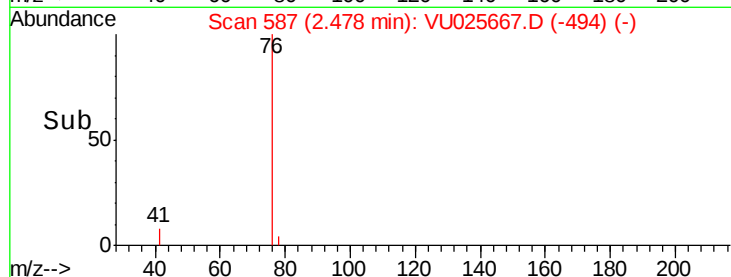
500

0

2.45

2.50

Time-->



#20

Methylene Chloride

Concen: 0.29 ug/l

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Tgt Ion: 84 Resp: 656

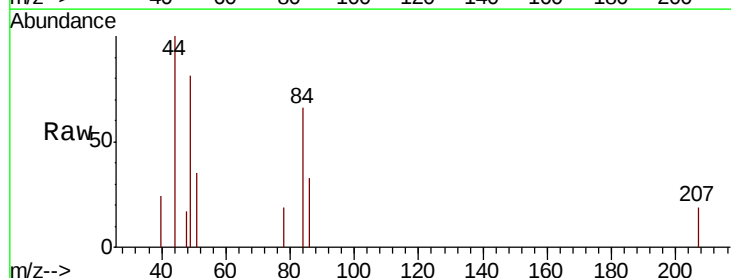
Ion Ratio Lower Upper

84 100

49 123.0 101.8 152.6

51 54.0 30.8 46.2#

86 50.5 51.9 77.9#



Abundance Ion 83.90 (83.60 to 84.60): VU025667.D (-643) (-)

Ion 48.90 (48.60 to 49.60): VU025667.D (-643) (-)

Ion 50.90 (50.60 to 51.60): VU025667.D (-643) (-)

Ion 85.90 (85.60 to 86.60): VU025667.D (-643) (-)

600

400

200

0

2.66

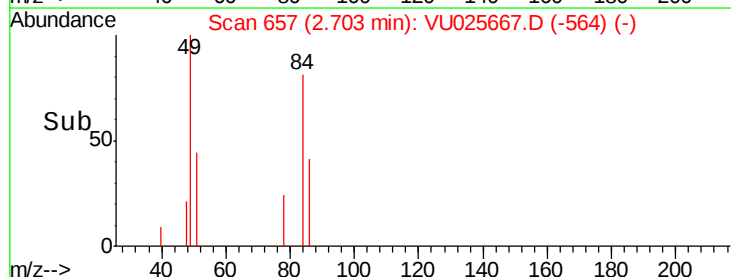
2.68

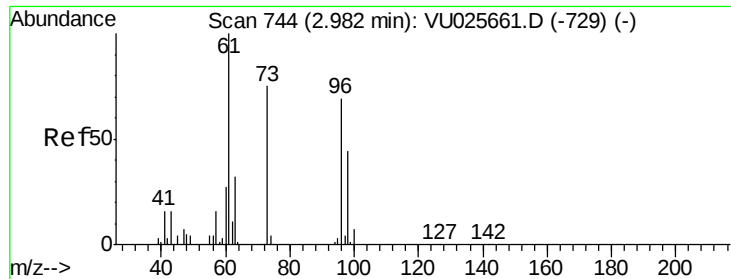
2.70

2.72

2.74

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.33 ug/l

RT: 2.98 min Scan# 744

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

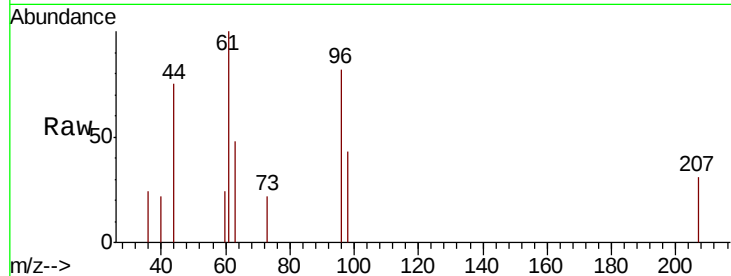
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

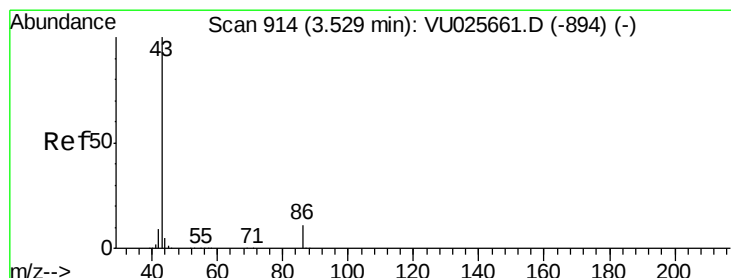
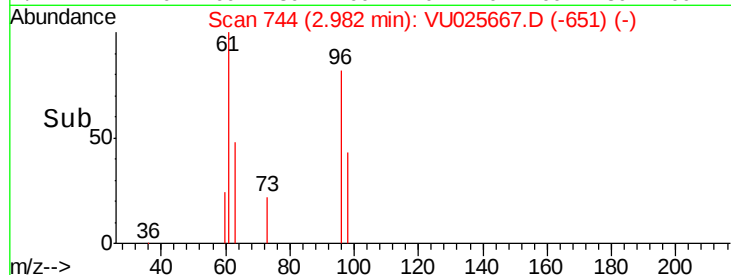
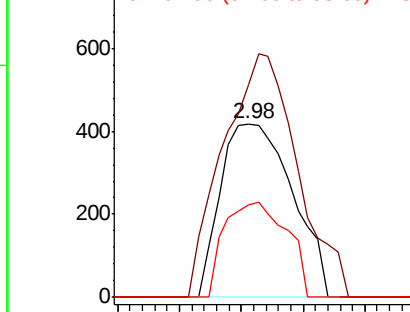
Tot Ion:	96	Resp:	678
Ion	Ratio	Lower	Upper
96	100		
61	122.7	114.5	171.7
98	53.2	50.5	75.7

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:48:37 PM



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



#23

Vinyl Acetate

Concen: 0.80 ug/l

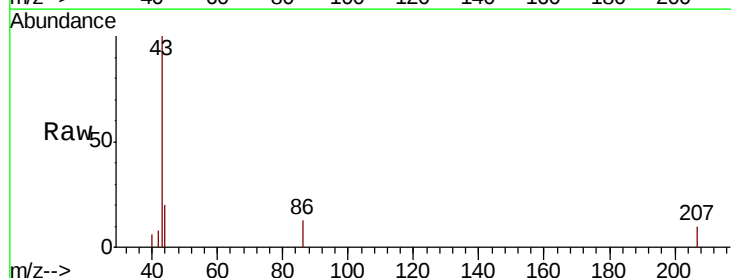
RT: 3.54 min Scan# 916

Delta R.T. 0.01 min

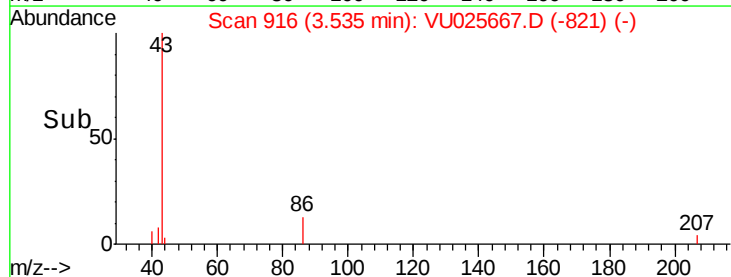
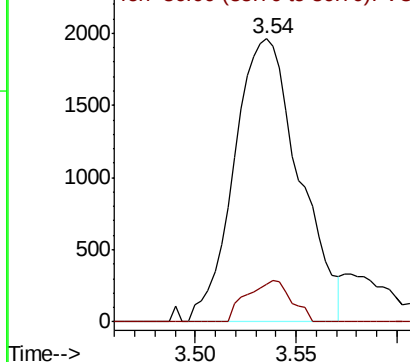
Lab File: VU025667.D

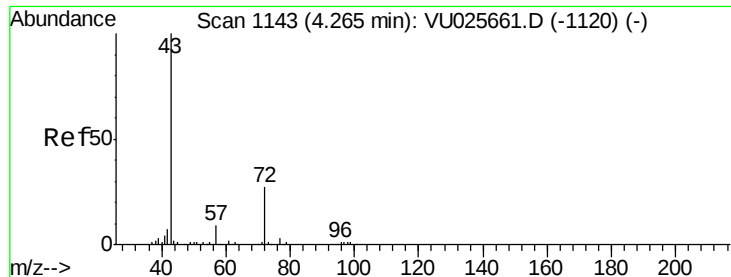
Acq: 27 Jul 2018 14:24

Tgt Ion:	43	Resp:	4413
Ion	Ratio	Lower	Upper
43	100		
86	13.3	8.2	12.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 86.00 (85.70 to 86.70): VU0





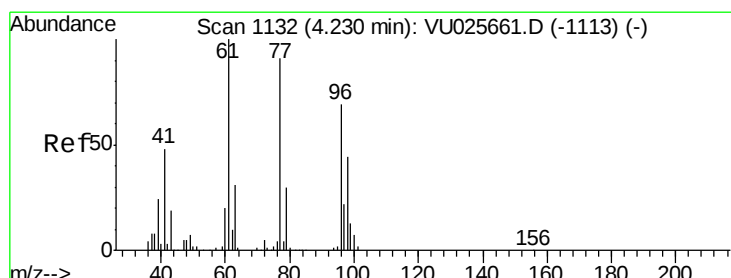
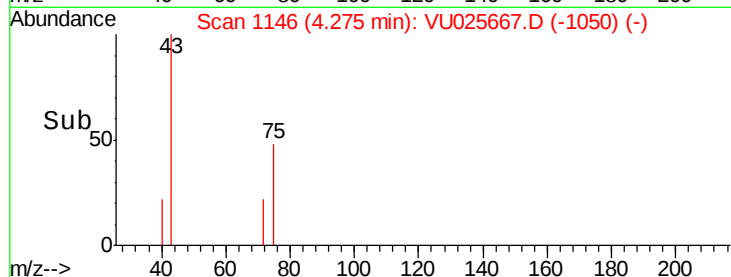
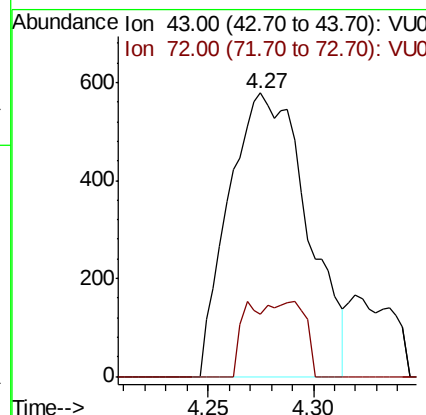
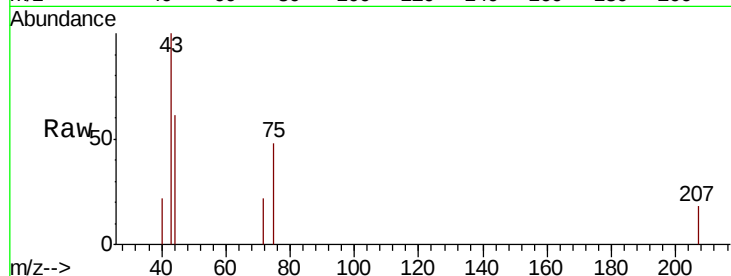
#25
2-Butanone
Concen: 0.87 ug/l
RT: 4.27 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 43 Resp: 1492
Ion Ratio Lower Upper
43 100
72 22.1 21.0 31.4

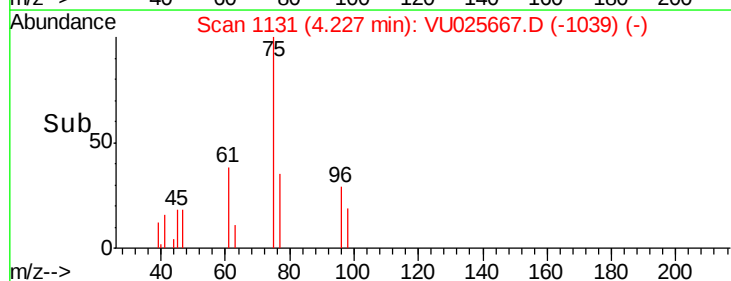
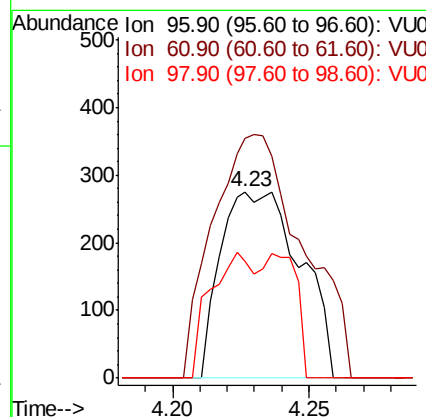
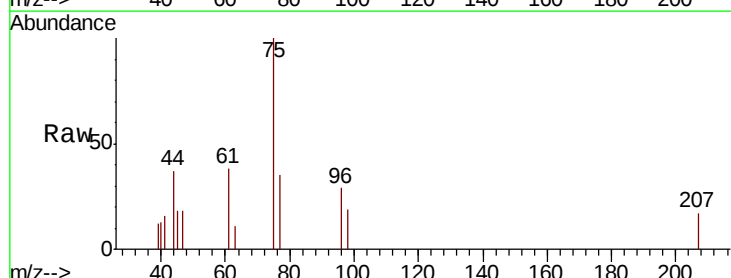
Manual Integrations
APPROVED

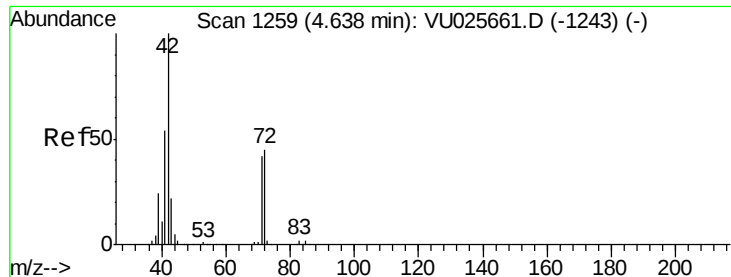
MMDadoda
7/31/2018 3:48:37 PM



#27
cis-1,2-Dichloroethene
Concen: 0.24 ug/l
RT: 4.23 min Scan# 1131
Delta R.T. -0.00 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Tgt Ion: 96 Resp: 558
Ion Ratio Lower Upper
96 100
61 146.4 0.0 299.8
98 36.7 0.0 128.6





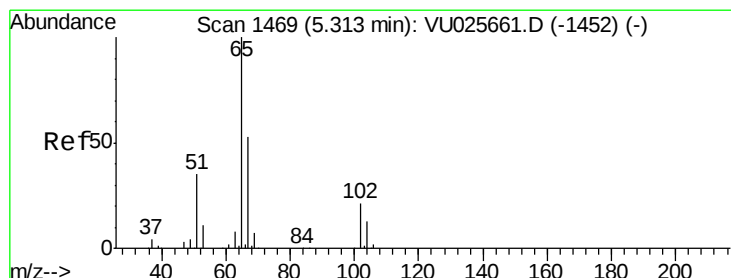
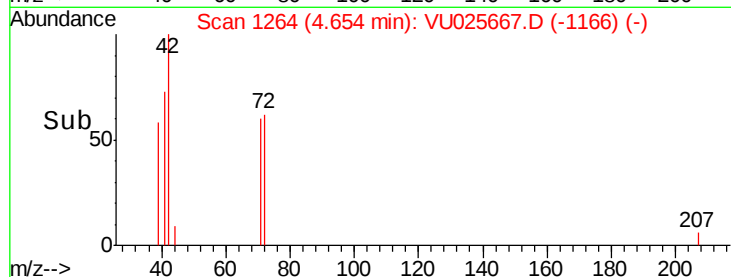
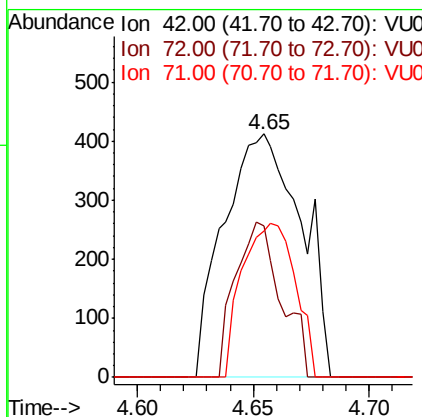
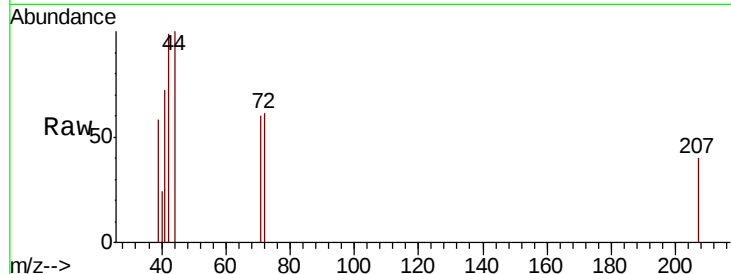
#29
Tetrahydrofuran
Concen: 0.93 ug/l
RT: 4.65 min Scan# 1264
Delta R.T. 0.02 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.9	36.7	55.1
71	43.5	33.9	50.9

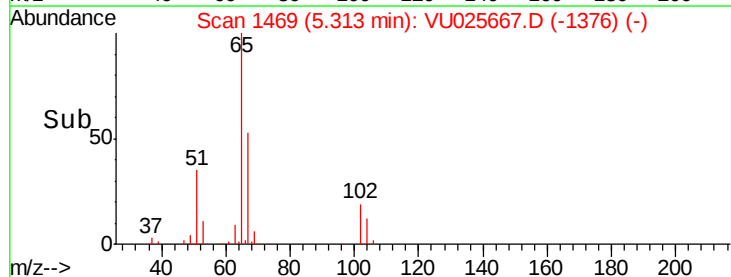
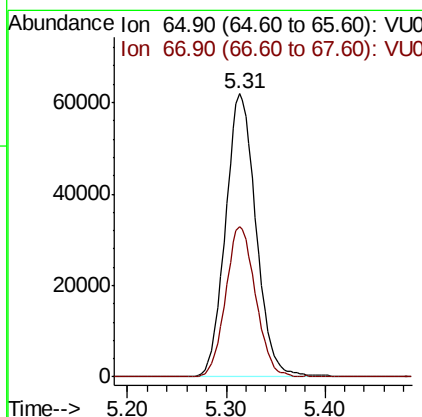
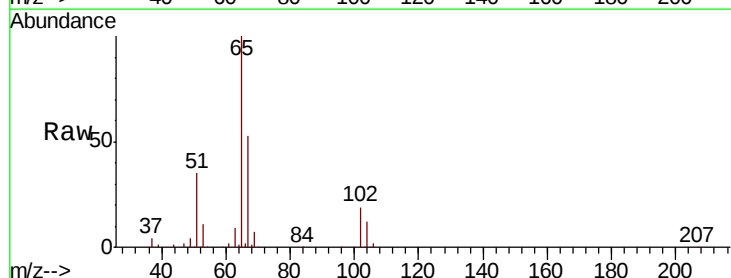
Manual Integrations
APPROVED

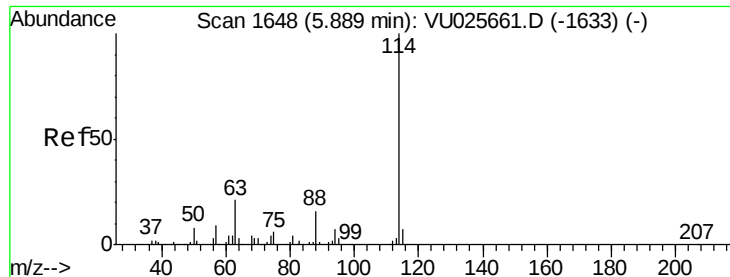
MMDadoda
7/31/2018 3:48:37 PM



#33
1,2-Dichloroethane-d4
Concen: 51.63 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	103.6





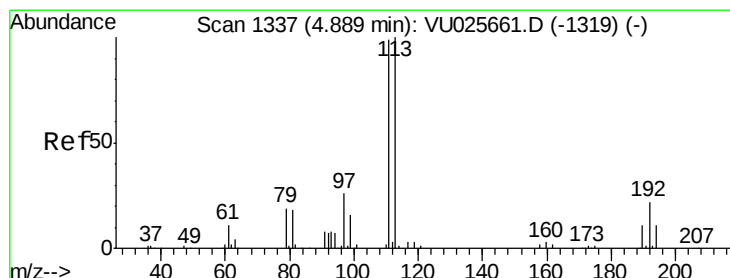
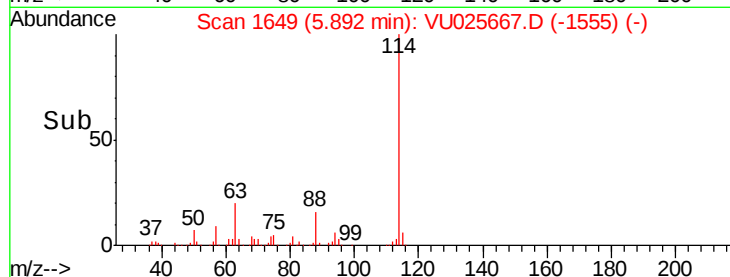
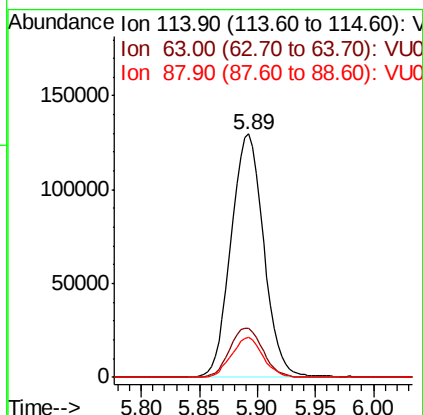
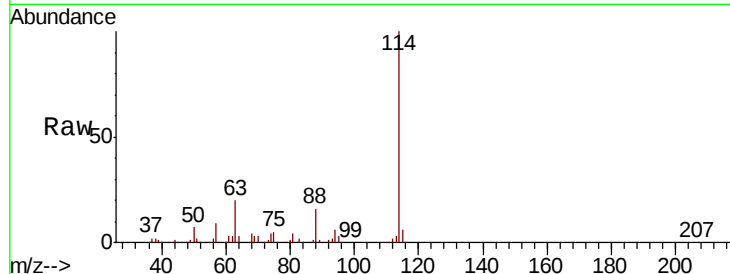
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
114	100	253621		
63	20.1		0.0	41.6
88	16.4		0.0	32.4

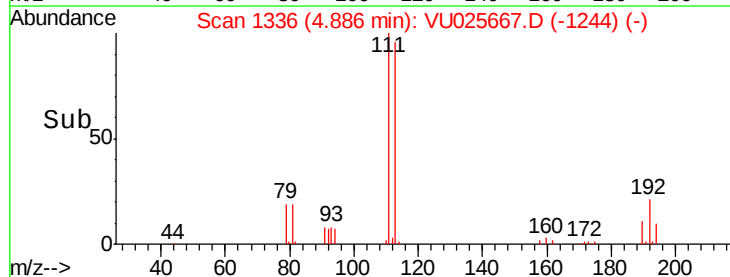
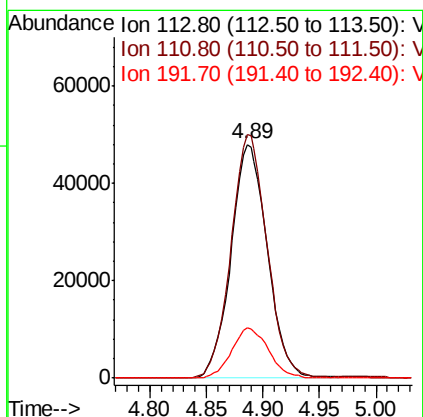
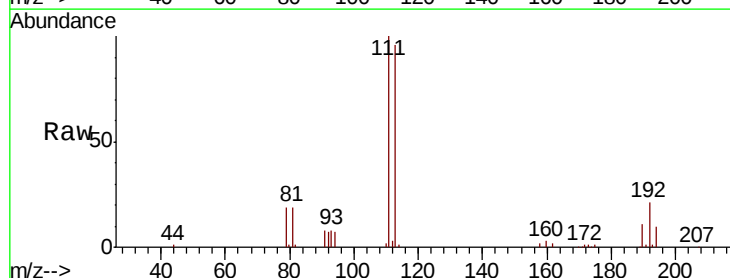
Manual Integrations
 APPROVED

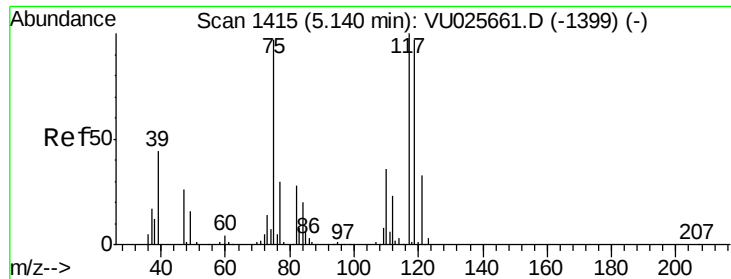
MMDadoda
 7/31/2018 3:48:37 PM



#35
 Dibromofluoromethane
 Concen: 48.61 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	107232		
111	103.2		81.7	122.5
192	21.7		17.1	25.7





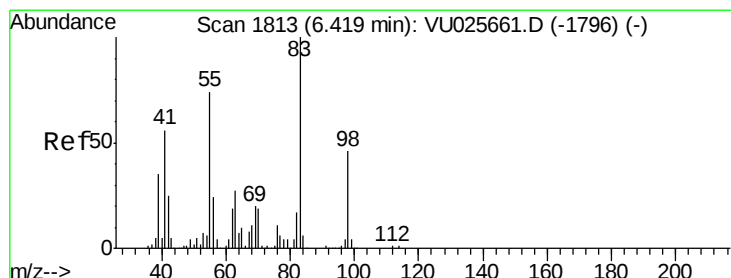
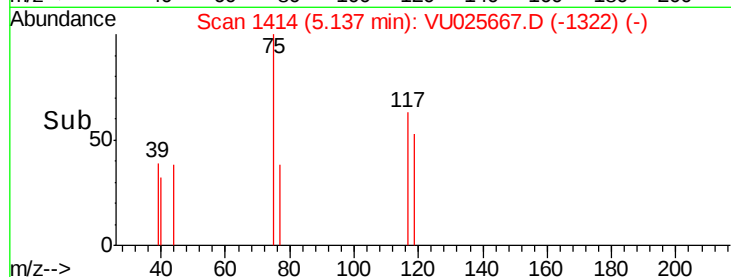
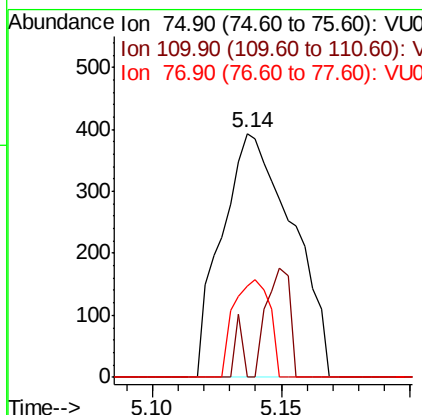
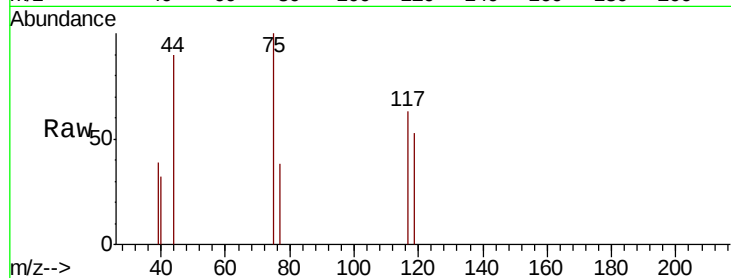
#36
 1,1-Dichloropropene
 Concen: 0.25 ug/l
 RT: 5.14 min Scan# 1414
 Delta R.T. -0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
75	100		
110	15.1	17.6	52.9#
77	20.4	24.4	36.6#

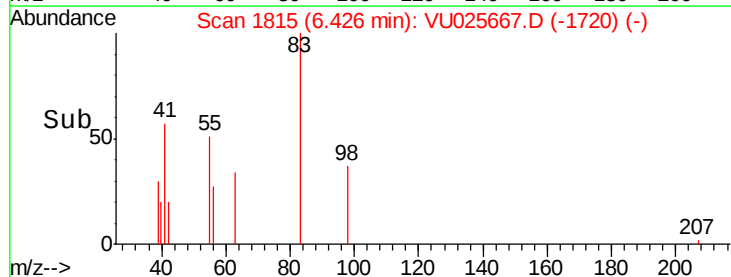
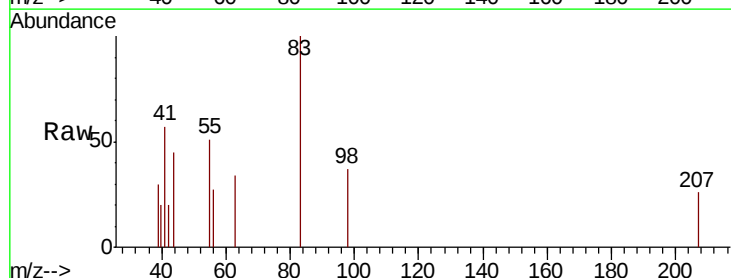
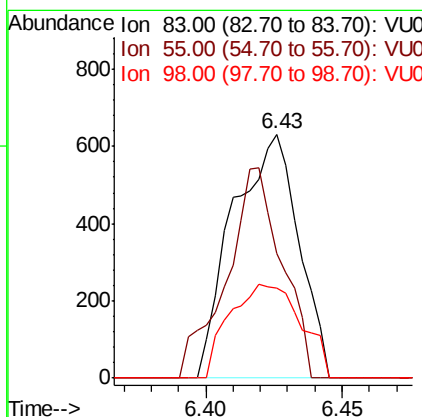
Manual Integrations
 APPROVED

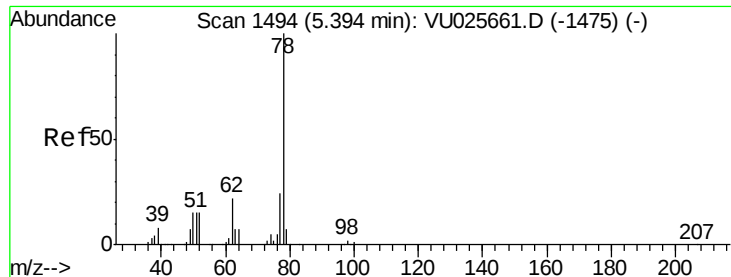
MMDadoda
 7/31/2018 3:48:37 PM



#39
 Methylcyclohexane
 Concen: 0.31 ug/l
 RT: 6.43 min Scan# 1815
 Delta R.T. 0.01 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Tgt Ion	Ratio	Lower	Upper
83	100		
55	51.2	60.0	90.0#
98	36.9	36.1	54.1





#40

Benzene

Concen: 0.21 ug/l

RT: 5.40 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 78 Resp: 1824

Ion Ratio Lower Upper

78 100

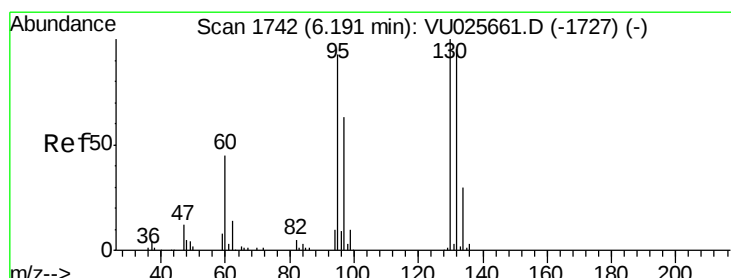
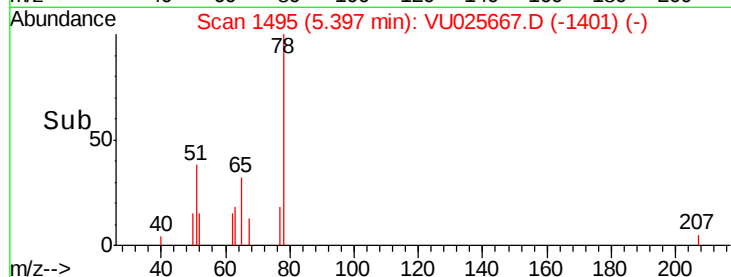
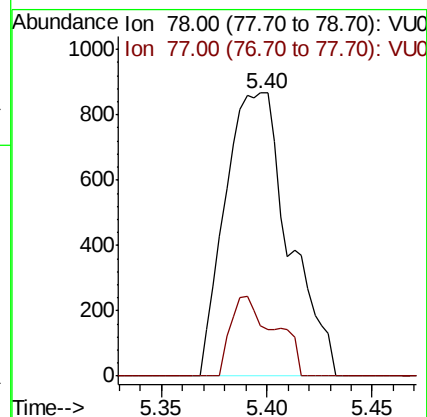
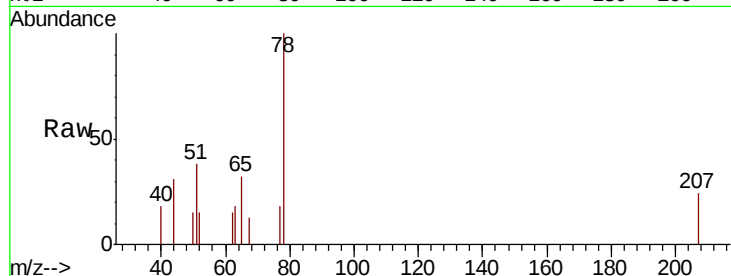
77 18.0 19.8 29.6#

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:48:37 PM



#44

Trichloroethene

Concen: 0.36 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU025667.D

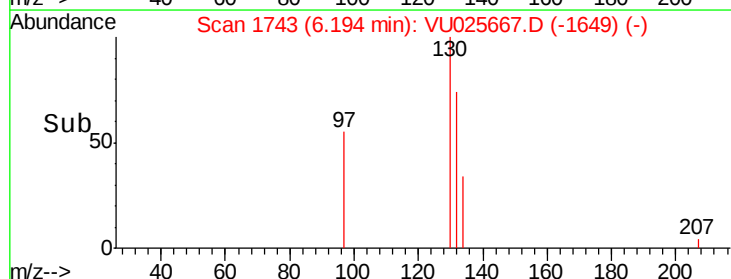
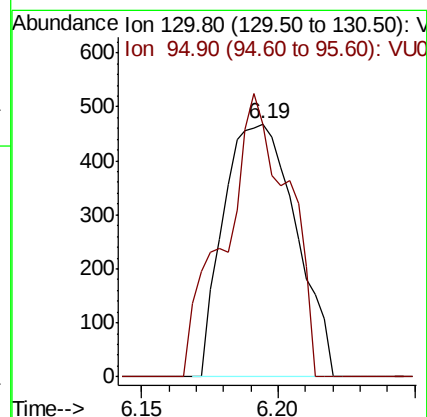
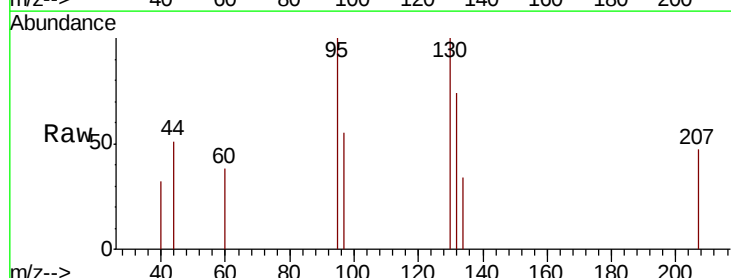
Acq: 27 Jul 2018 14:24

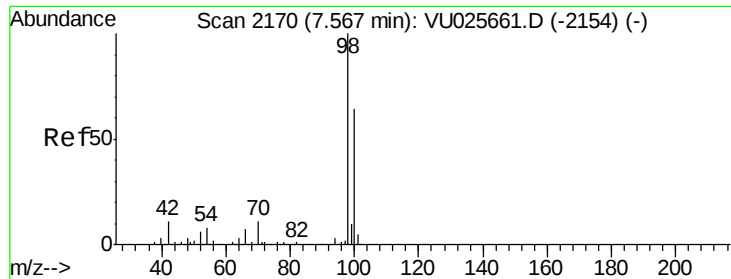
Tgt Ion: 130 Resp: 860

Ion Ratio Lower Upper

130 100

95 99.6 0.0 192.2





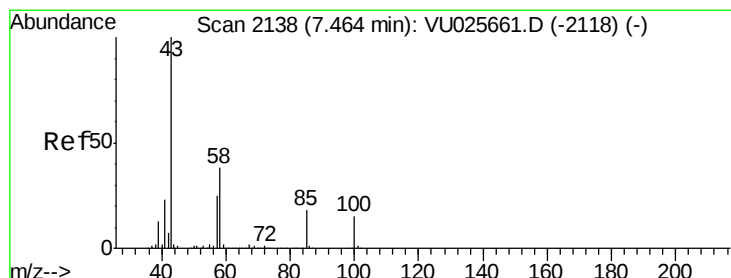
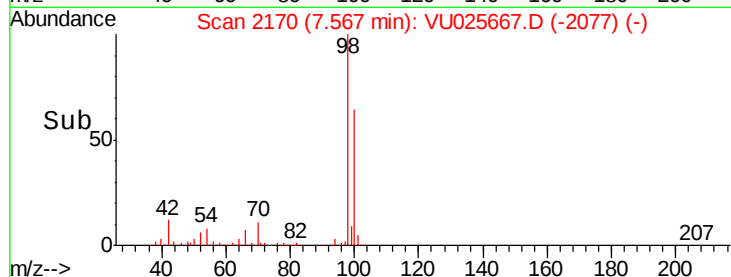
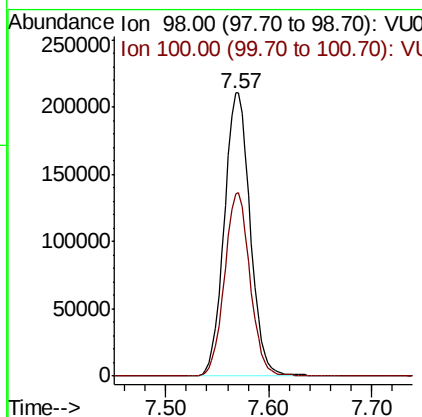
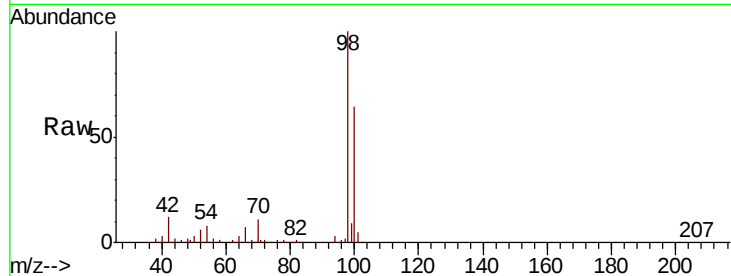
#50
Toluene-d8
Concen: 47.91 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 98 Resp: 369803
Ion Ratio Lower Upper
98 100
100 63.6 51.1 76.7

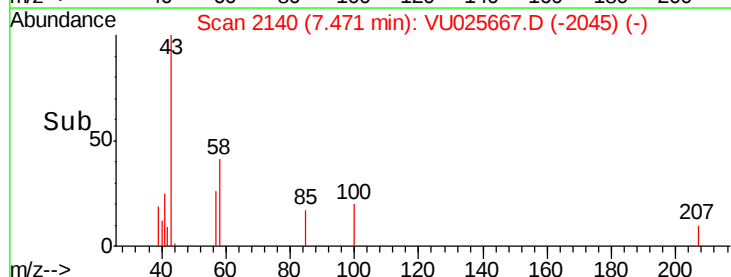
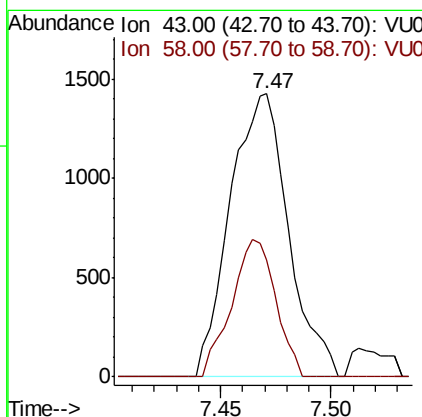
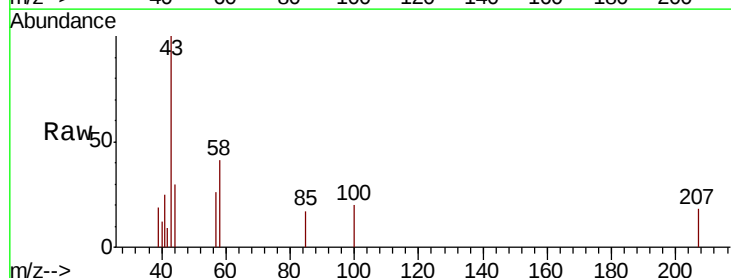
Manual Integrations
APPROVED

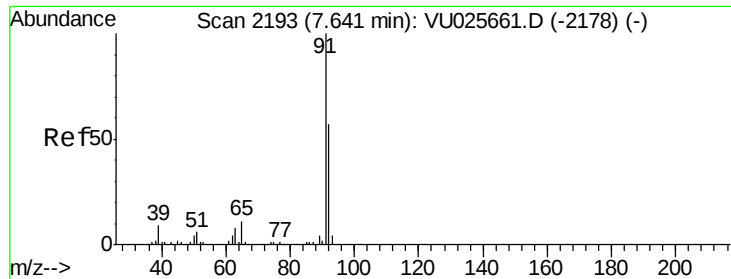
MMDadoda
7/31/2018 3:48:37 PM



#51
4-Methyl-2-Pentanone
Concen: 0.82 ug/l
RT: 7.47 min Scan# 2140
Delta R.T. 0.01 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Tgt Ion: 43 Resp: 2620
Ion Ratio Lower Upper
43 100
58 36.9 31.0 46.4





#52

Toluene

Concen: 0.20 ug/l

RT: 7.64 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 92 Resp: 1078

Ion Ratio Lower Upper

92 100

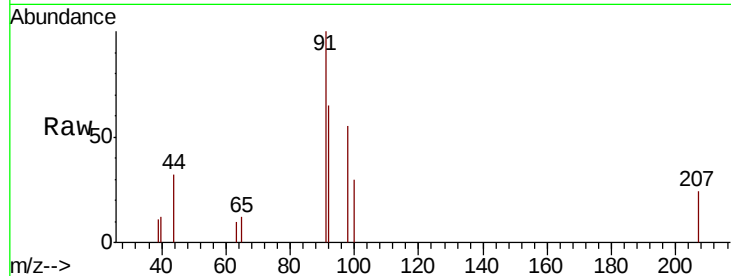
91 199.4 139.2 208.8

Manual Integrations

APPROVED

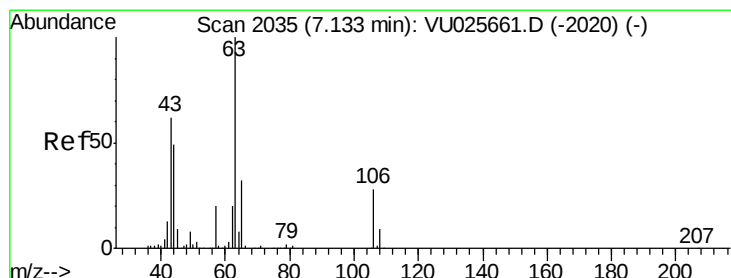
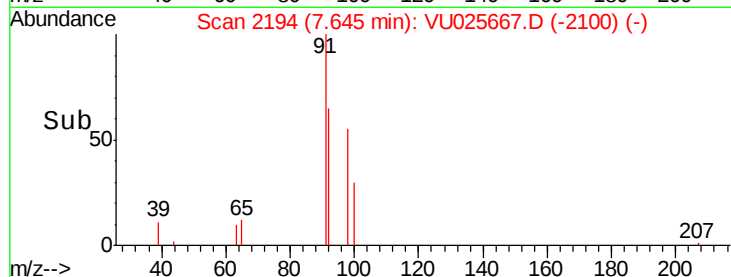
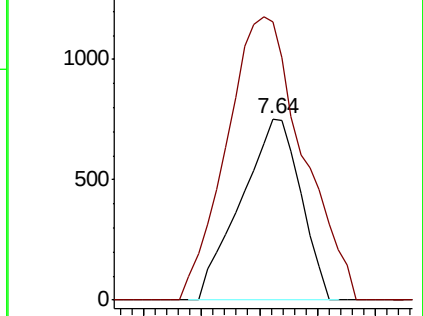
MMDadoda

7/31/2018 3:48:37 PM



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 7.61 ug/l

RT: 7.14 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU025667.D

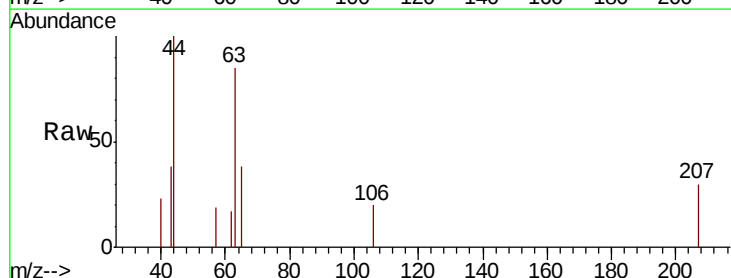
Acq: 27 Jul 2018 14:24

Tgt Ion: 63 Resp: 793

Ion Ratio Lower Upper

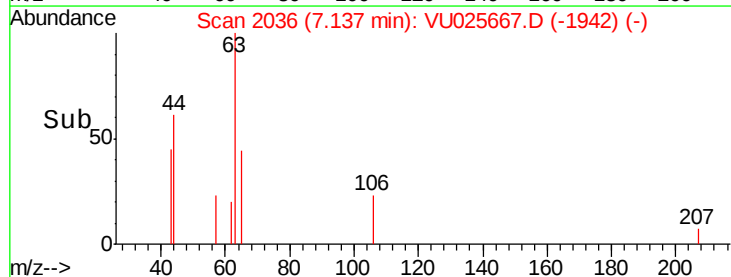
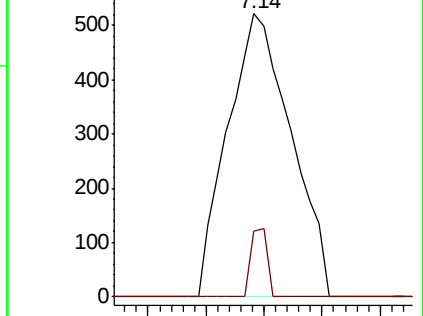
63 100

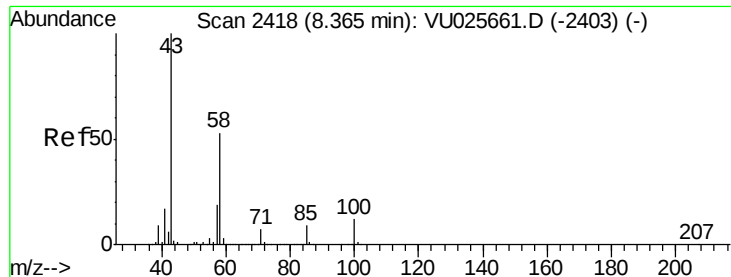
106 6.1 22.3 33.5#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





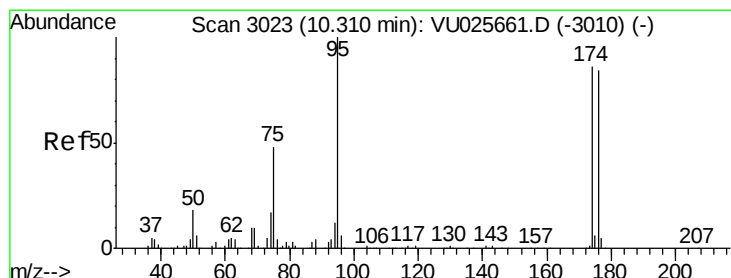
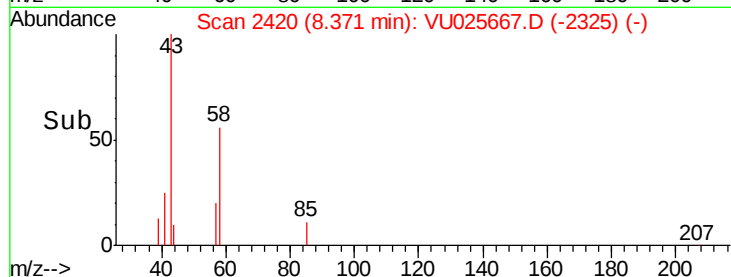
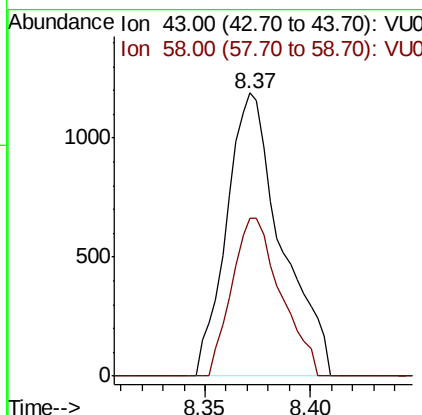
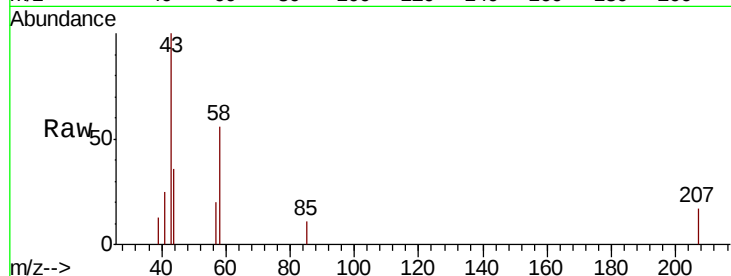
#59
2-Hexanone
Concen: 0.86 ug/l
RT: 8.37 min Scan# 2420
Delta R.T. 0.01 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 43 Resp: 2145
Ion Ratio Lower Upper
43 100
58 49.6 26.2 78.5

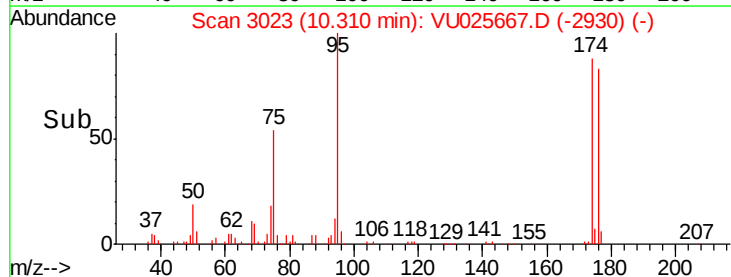
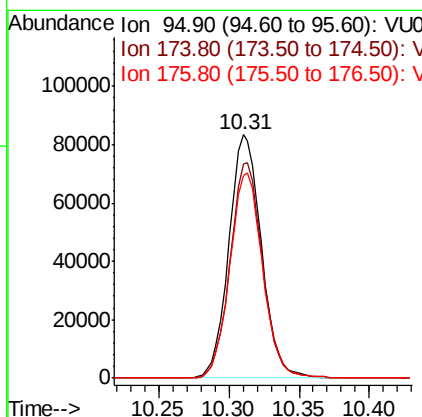
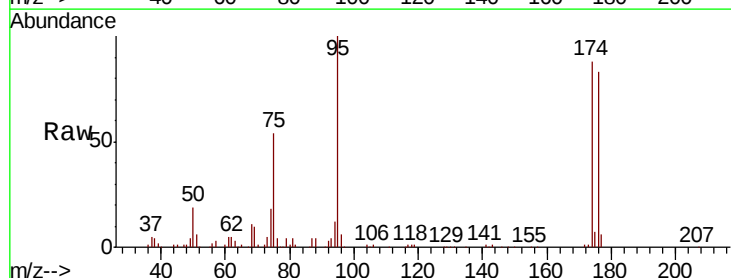
Manual Integrations
APPROVED

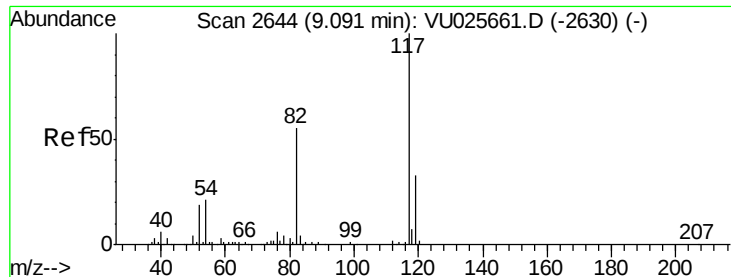
MMDadoda
7/31/2018 3:48:37 PM



#62
4-Bromofluorobenzene
Concen: 44.88 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Tgt Ion: 95 Resp: 134453
Ion Ratio Lower Upper
95 100
174 88.6 0.0 172.2
176 85.2 0.0 162.6





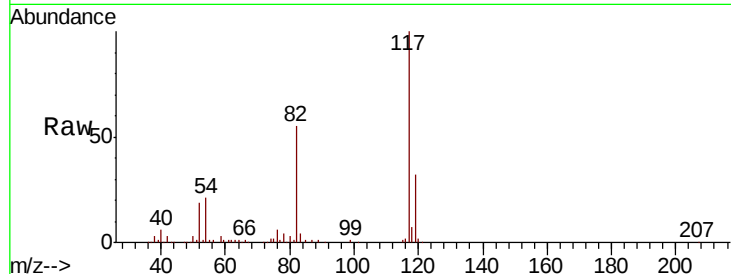
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
117	100	244640		
82	54.9	46.0	69.0	
119	31.9	26.0	39.0	

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:48:37 PM

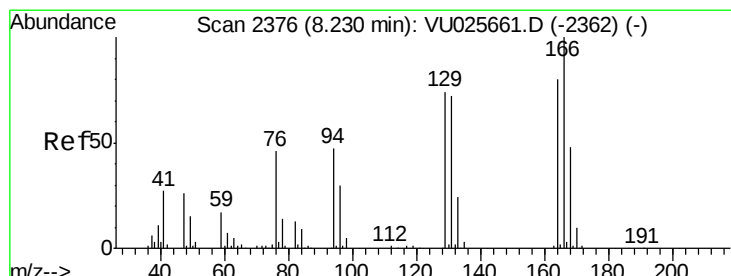
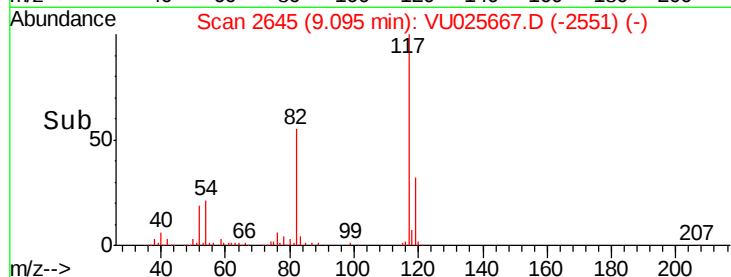
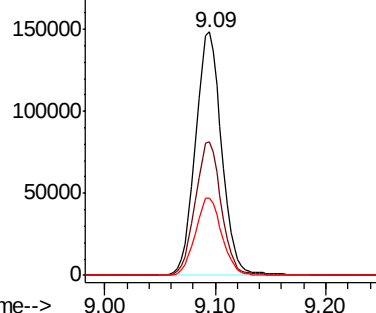


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 0.34 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	735		
166	107.7	101.1	151.7	
129	80.0	73.0	109.6	
131	64.9	72.1	108.1	

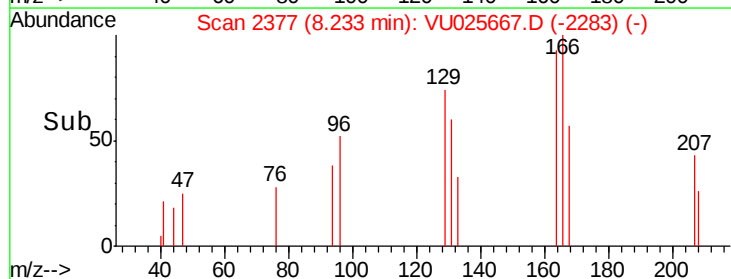
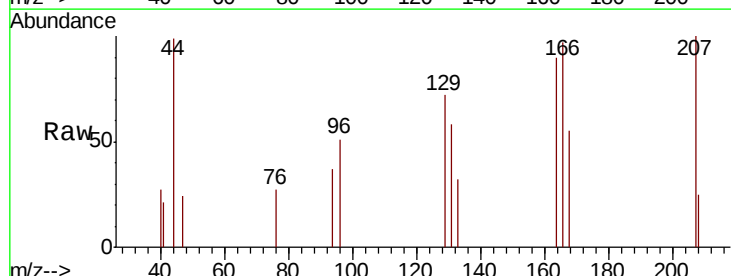
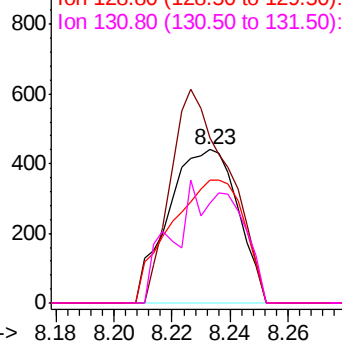
Abundance

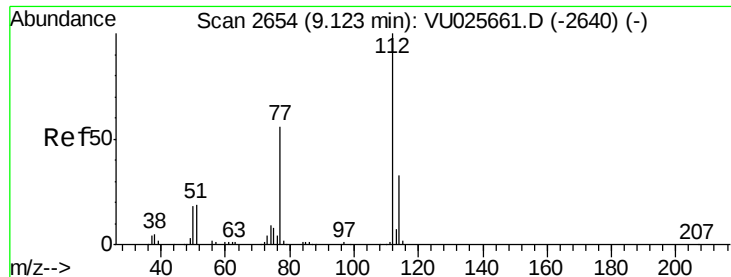
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 0.26 ug/l

RT: 9.12 min Scan# 2652

Delta R.T. -0.01 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:112 Resp: 1623

Ion Ratio Lower Upper

112 100

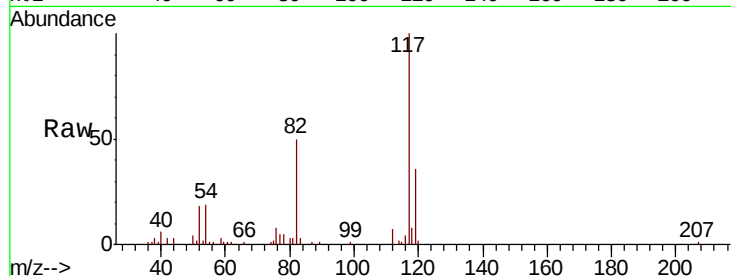
114 25.9 25.8 38.8

Manual Integrations

APPROVED

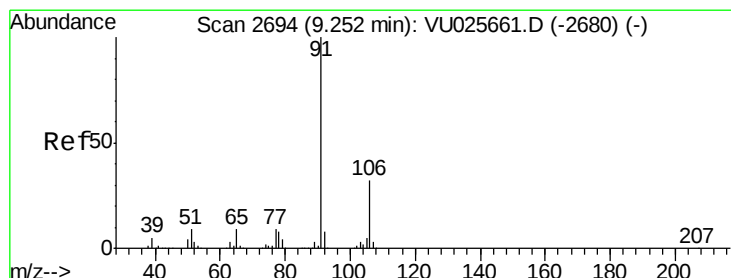
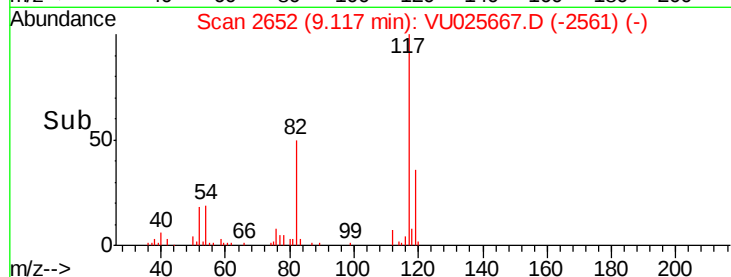
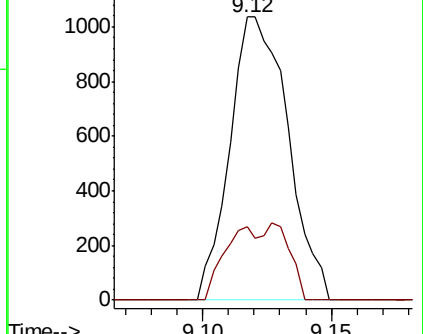
MMDadoda

7/31/2018 3:48:37 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#67

Ethyl Benzene

Concen: 0.22 ug/l

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU025667.D

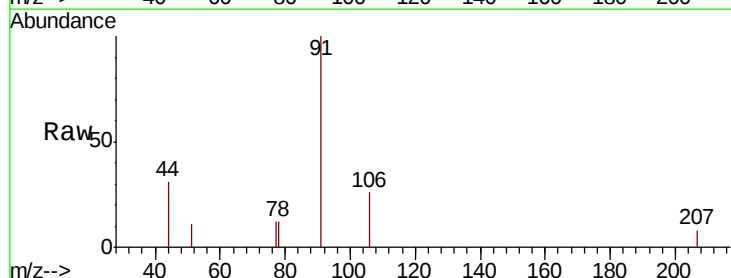
Acq: 27 Jul 2018 14:24

Tgt Ion: 91 Resp: 2349

Ion Ratio Lower Upper

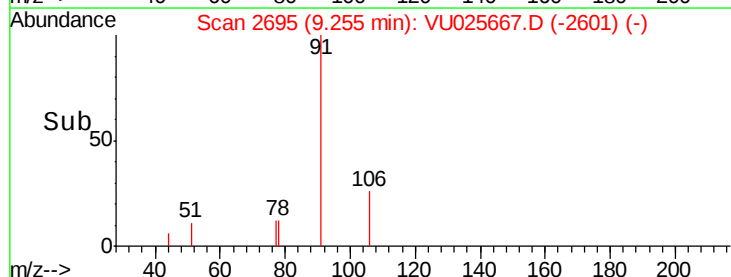
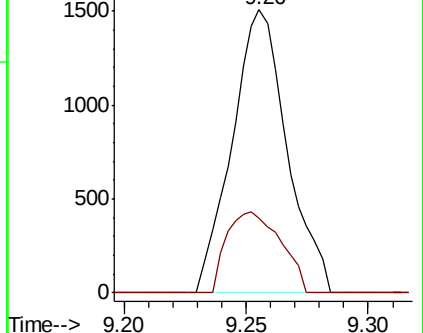
91 100

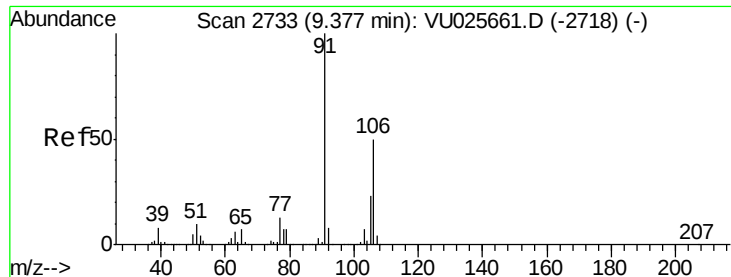
106 26.4 25.3 37.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





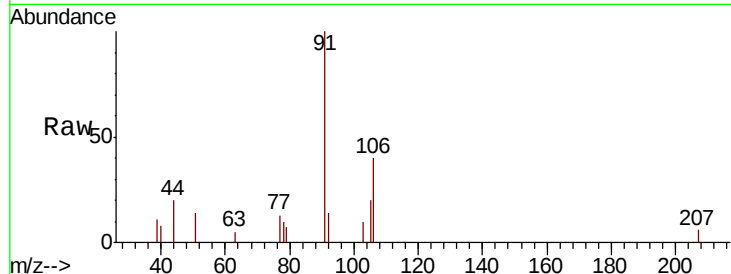
#68
m/p-Xylenes
Concen: 0.34 ug/l
RT: 9.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

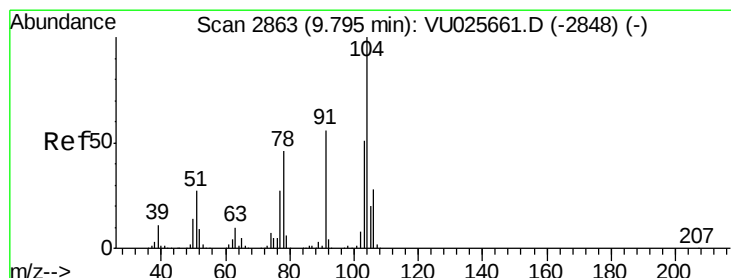
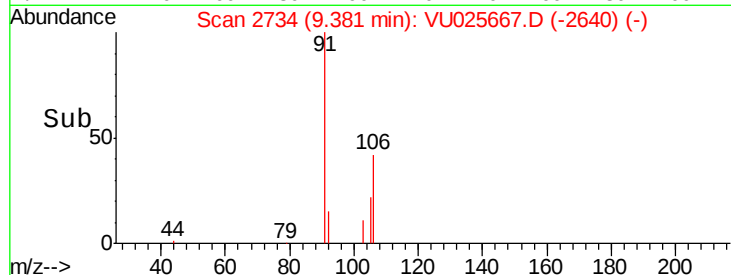
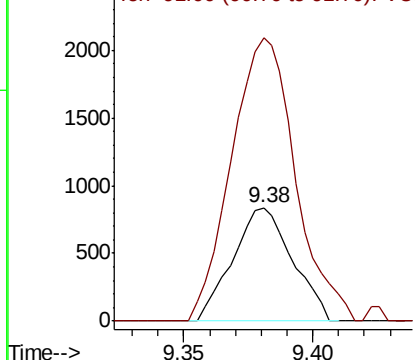
Tot Ion	Ratio	Lower	Upper
106	100		
91	267.7	162.3	243.5#

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:48:37 PM

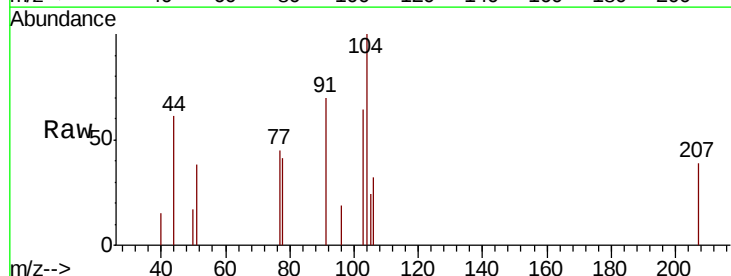


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

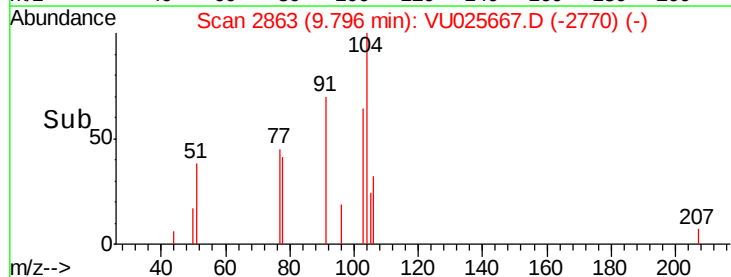
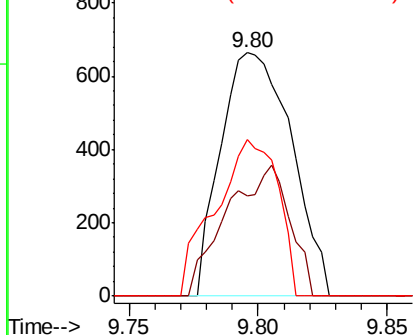


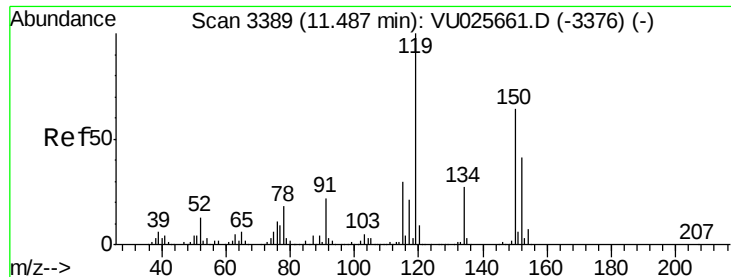
#70
Styrene
Concen: 0.20 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU025667.D
Acq: 27 Jul 2018 14:24

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.0	41.6	62.4
103	57.0	44.6	66.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

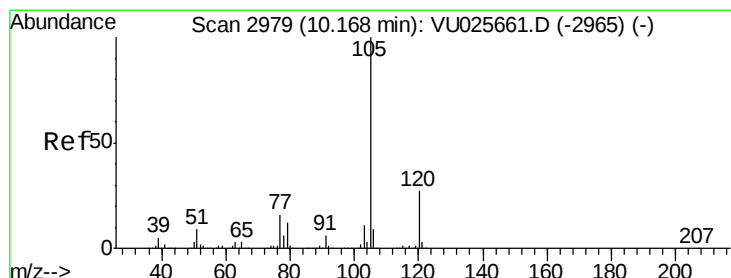
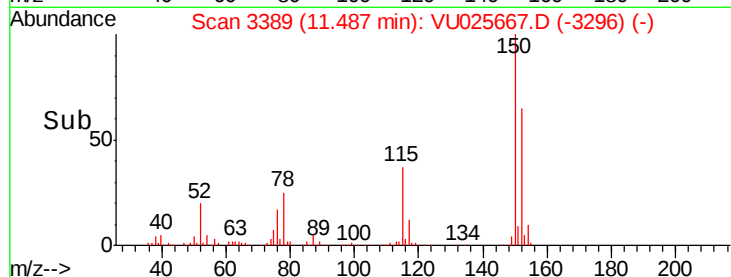
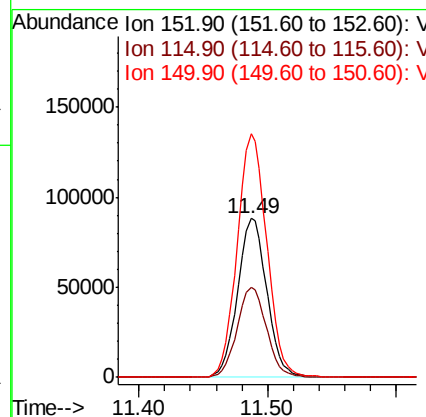
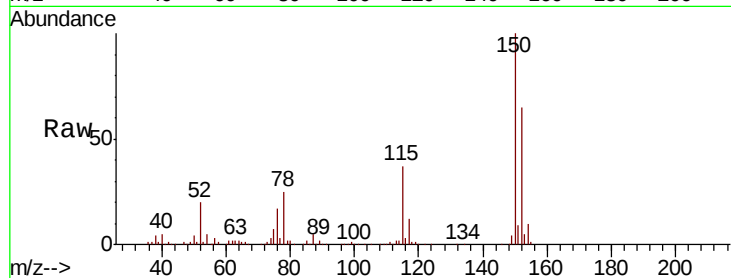
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	152	Resp:	138890
Ion Ratio	Lower	Upper	
152	100		
115	56.8	40.1	120.3
150	155.3	0.0	351.4

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:48:37 PM



#73

Isopropylbenzene

Concen: 0.22 ug/l

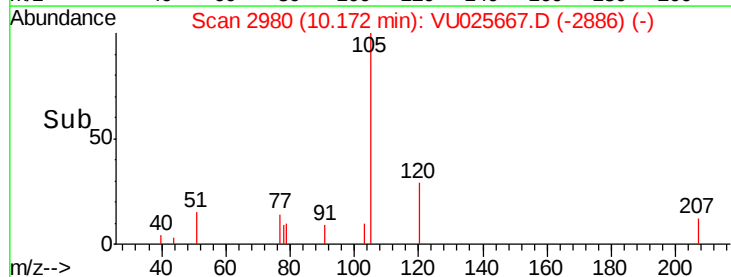
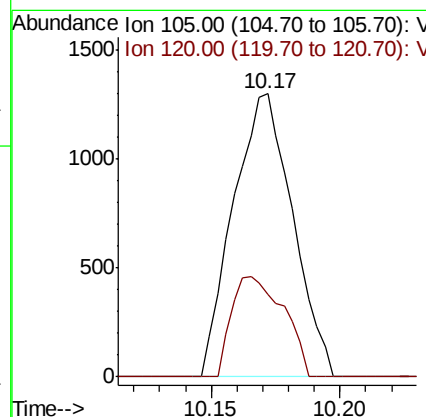
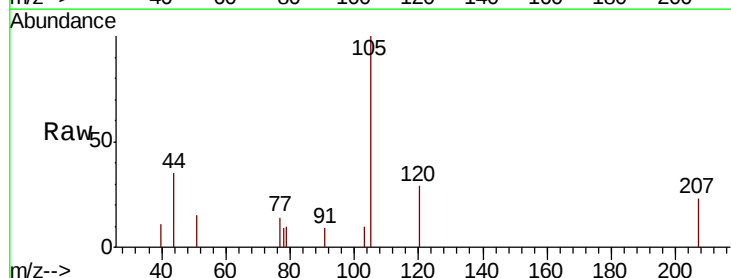
RT: 10.17 min Scan# 2980

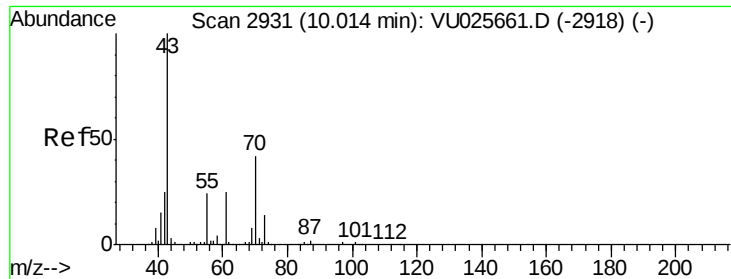
Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Tgt Ion:	105	Resp:	2081
Ion Ratio	Lower	Upper	
105	100		
120	31.1	13.5	40.5





#74

N-amvl acetate

Concen: 0.24 ug/l

RT: 10.02 min Scan# 2934

Delta R.T. 0.01 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

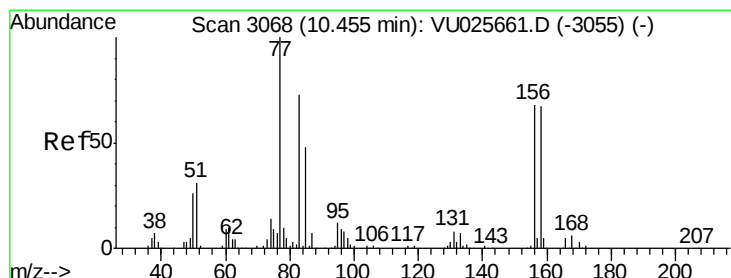
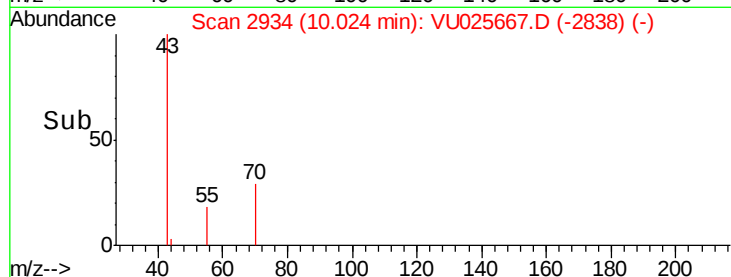
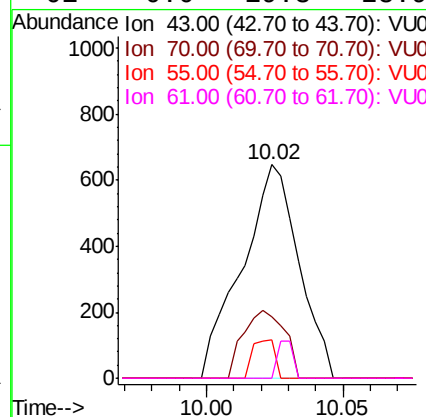
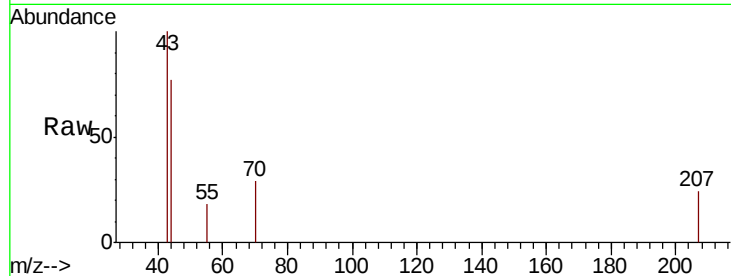
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	43	Resp:	933
Ion	Ratio	Lower	Upper
43	100		
70	23.0	33.4	50.2#
55	6.9	19.0	28.6#
61	0.0	19.3	28.9#

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:48:37 PM



#77

Bromobenzene

Concen: 0.21 ug/l

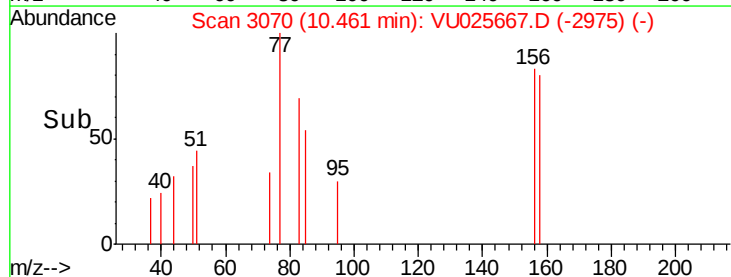
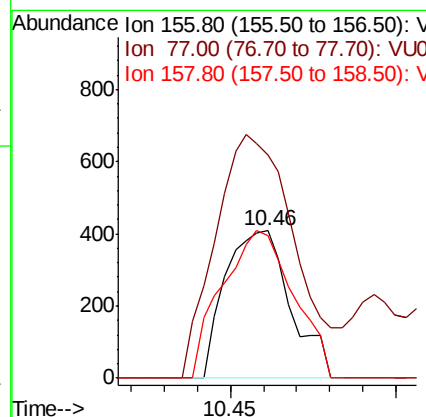
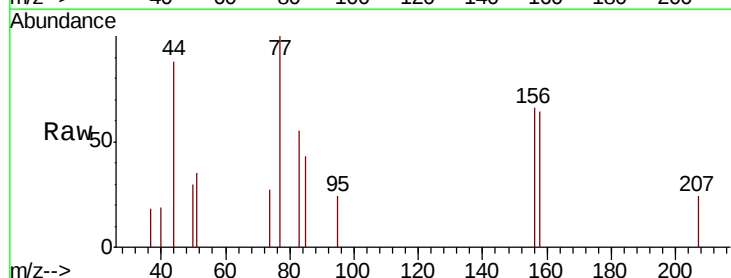
RT: 10.46 min Scan# 3070

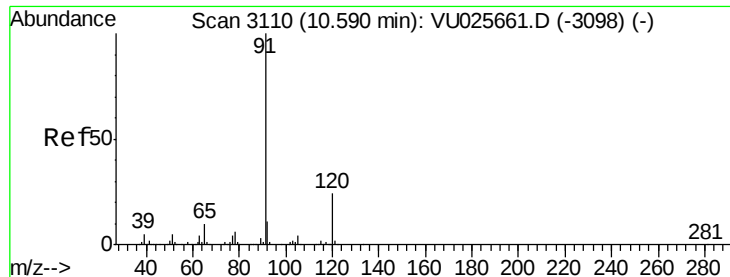
Delta R.T. 0.01 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Tgt Ion:	156	Resp:	558
Ion	Ratio	Lower	Upper
156	100		
77	199.1	73.8	221.4
158	110.8	48.0	144.0





#78

n-propylbenzene

Concen: 0.24 ug/l

RT: 10.59 min Scan# 3111

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 91 Resp: 2651

Ion Ratio Lower Upper

91 100

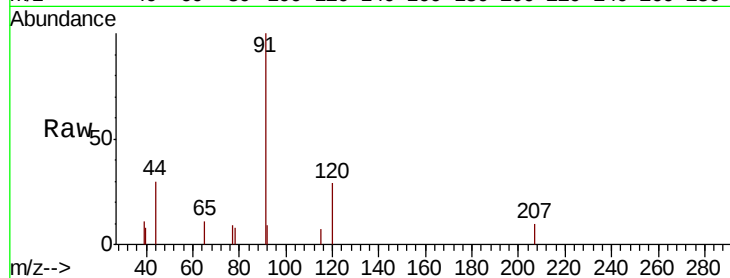
120 24.7 11.8 35.3

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:48:37 PM



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V

10.59

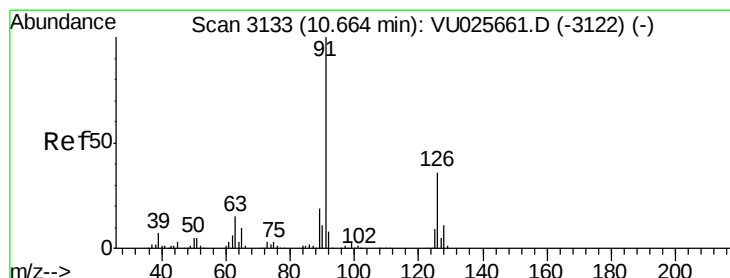
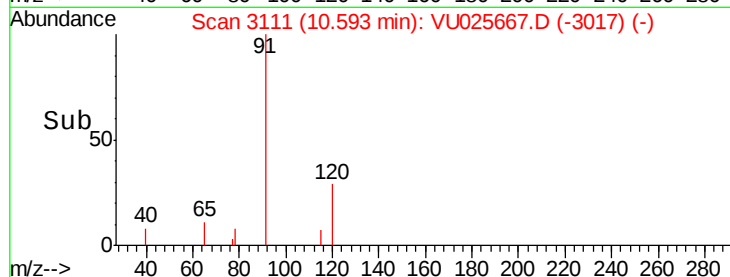
1500

1000

500

0

Time-->



#79

2-Chlorotoluene

Concen: 0.25 ug/l

RT: 10.66 min Scan# 3133

Delta R.T. 0.00 min

Lab File: VU025667.D

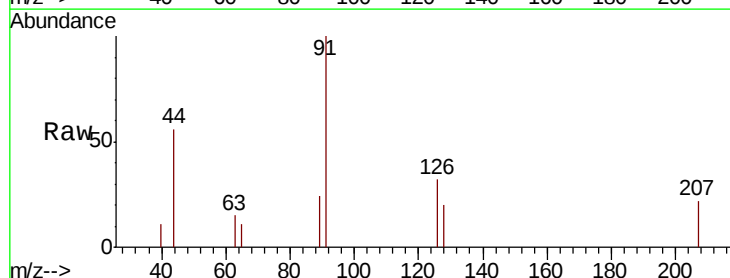
Acq: 27 Jul 2018 14:24

Tgt Ion: 91 Resp: 1620

Ion Ratio Lower Upper

91 100

126 23.4 17.5 52.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

10.66

1000

800

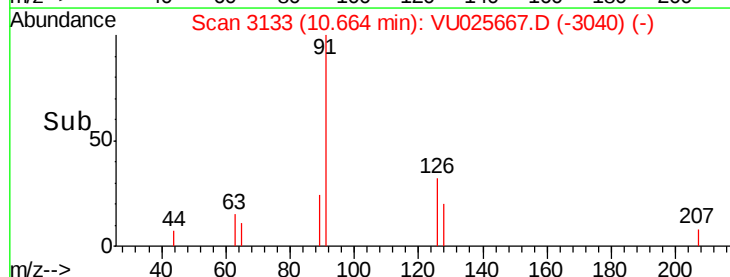
600

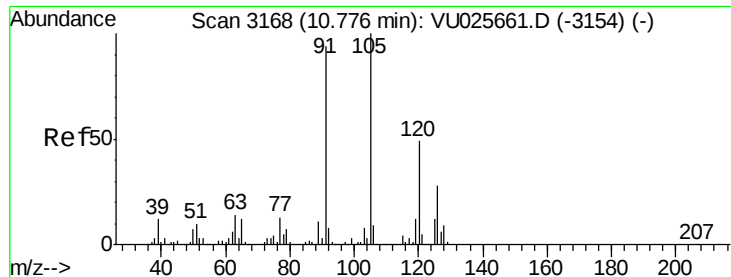
400

200

0

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:105 Resp: 1663

Ion Ratio Lower Upper

105 100

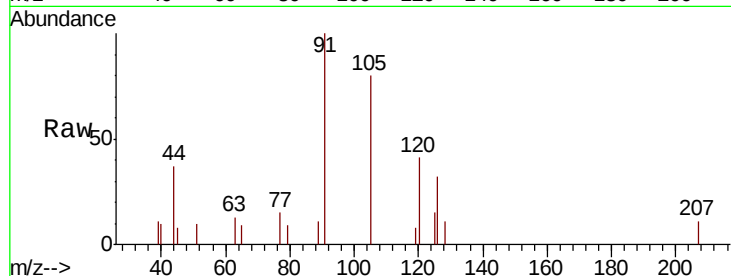
120 44.2 24.1 72.2

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:48:37 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.78

1200

1000

800

600

400

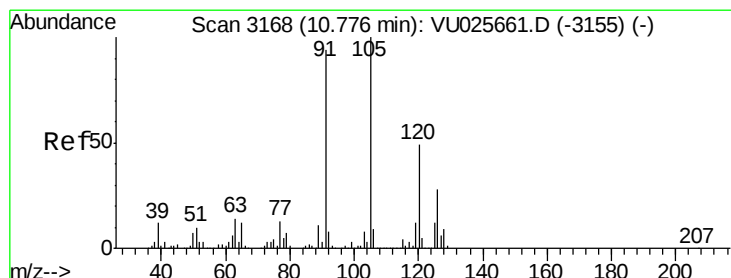
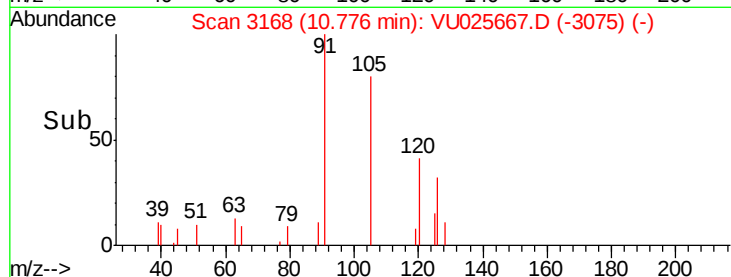
200

0

10.75

10.80

Time-->



#82

4-Chlorotoluene

Concen: 0.29 ug/l

RT: 10.78 min Scan# 3168

Delta R.T. 0.00 min

Lab File: VU025667.D

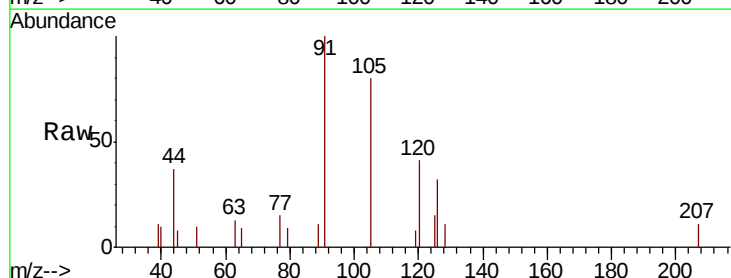
Acq: 27 Jul 2018 14:24

Tgt Ion: 91 Resp: 2218

Ion Ratio Lower Upper

91 100

126 28.8 15.3 45.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

10.78

1500

1000

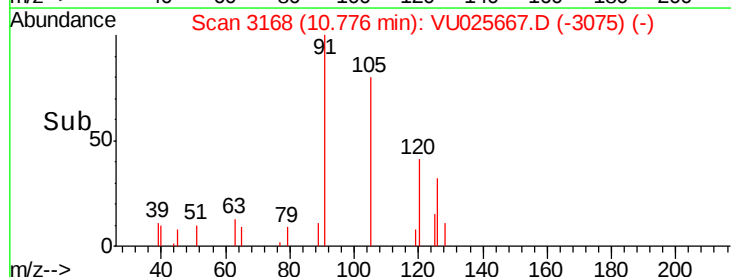
500

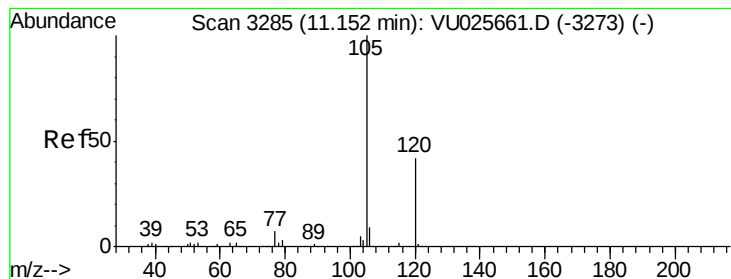
0

10.75

10.80

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 0.21 ug/l

RT: 11.15 min Scan# 3285

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:105 Resp: 1700

Ion Ratio Lower Upper

105 100

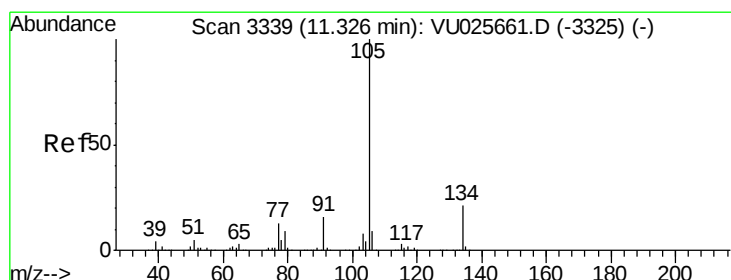
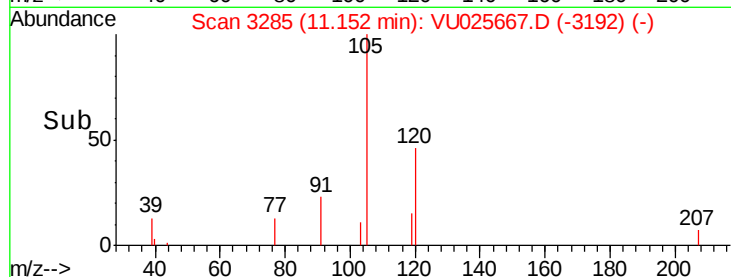
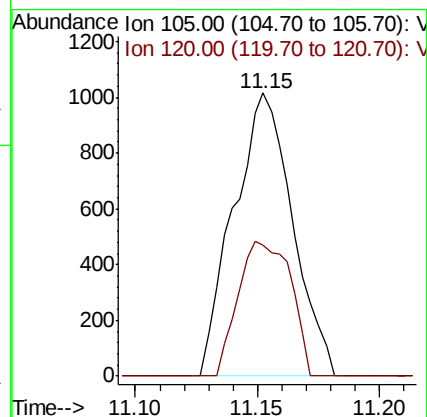
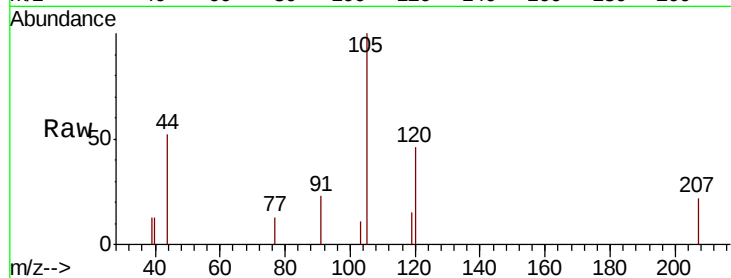
120 42.6 22.3 66.8

Manual Integrations

APPROVED

MMDadoda

7/31/2018 3:48:37 PM



#85

sec-Butylbenzene

Concen: 0.24 ug/l

RT: 11.33 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VU025667.D

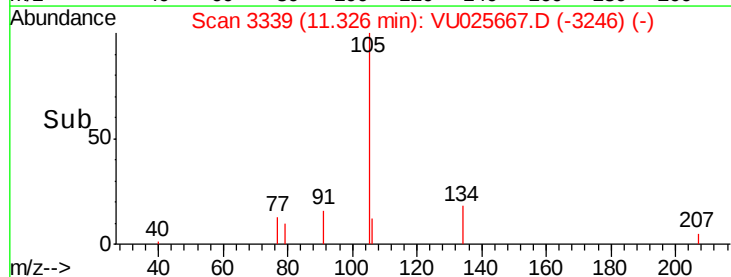
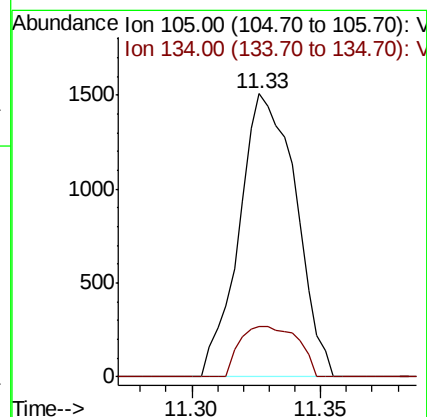
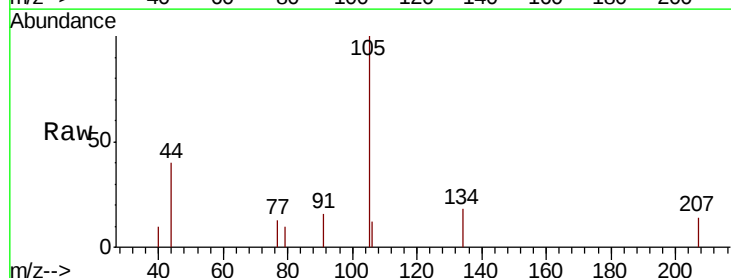
Acq: 27 Jul 2018 14:24

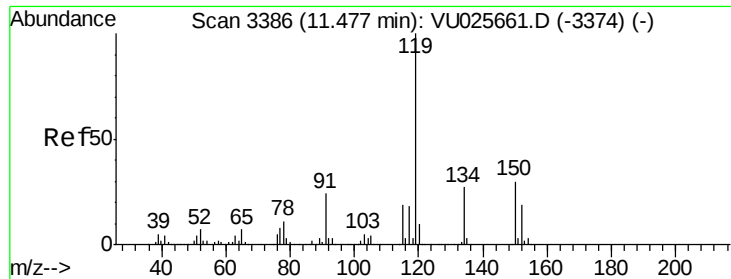
Tgt Ion:105 Resp: 2308

Ion Ratio Lower Upper

105 100

134 18.3 10.3 30.8





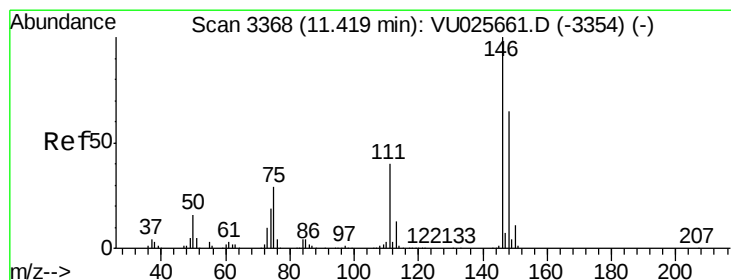
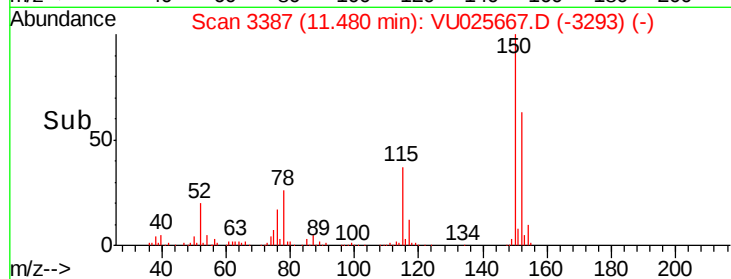
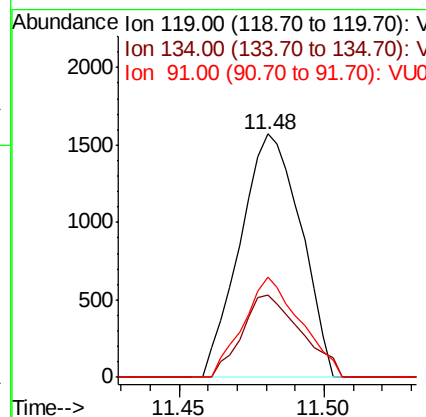
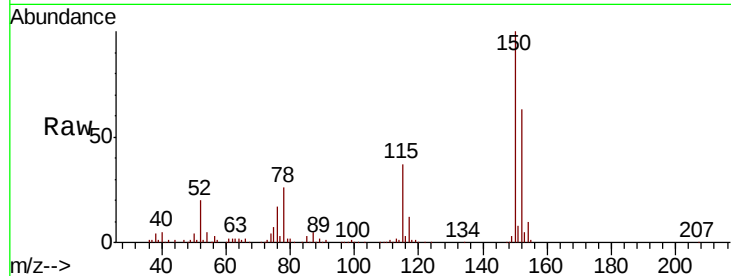
#86
 p-Isopropyltoluene
 Concen: 0.26 ug/l
 RT: 11.48 min Scan# 3387
 Delta R.T. 0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
119	100		
134	32.8	13.2	39.5
91	38.4	12.0	36.1

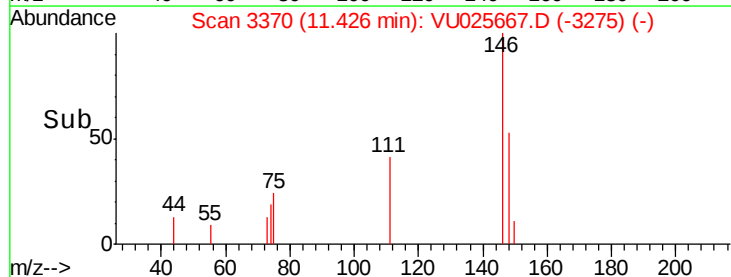
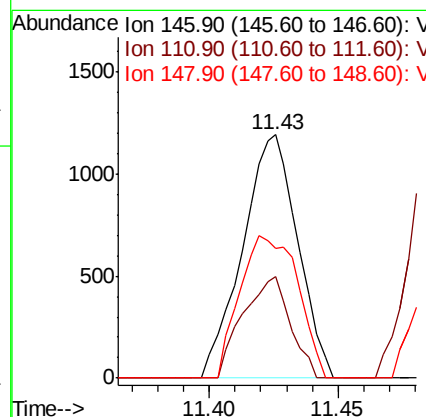
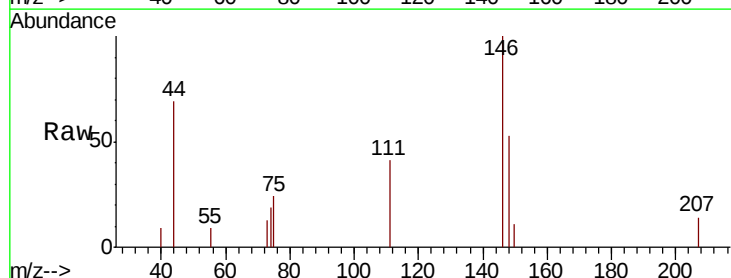
Manual Integrations
 APPROVED

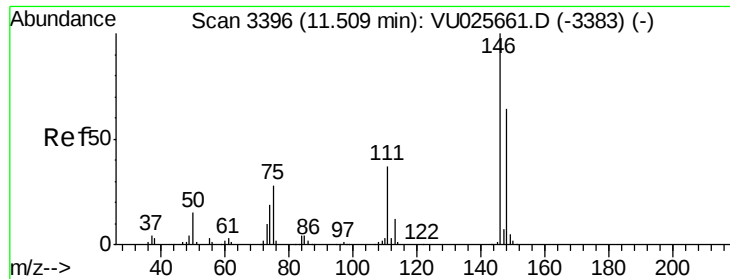
MMDadoda
 7/31/2018 3:48:37 PM



#87
 1,3-Dichlorobenzene
 Concen: 0.37 ug/l
 RT: 11.43 min Scan# 3370
 Delta R.T. 0.01 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.8	19.7	59.1
148	61.5	32.1	96.3





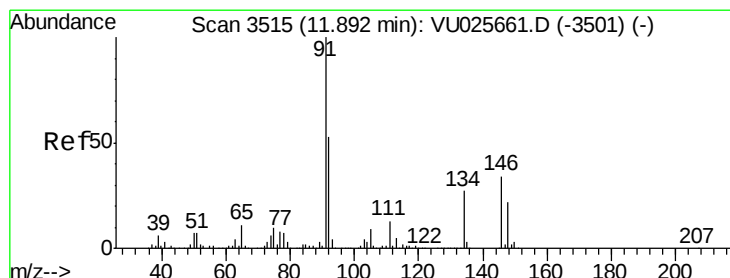
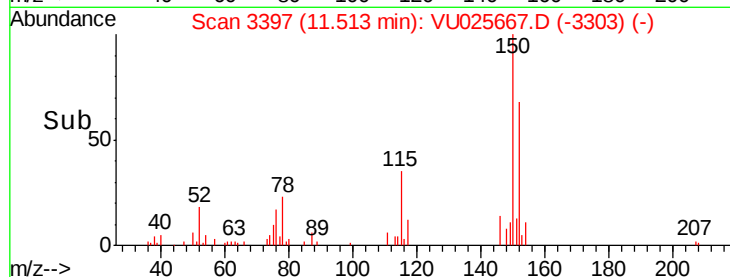
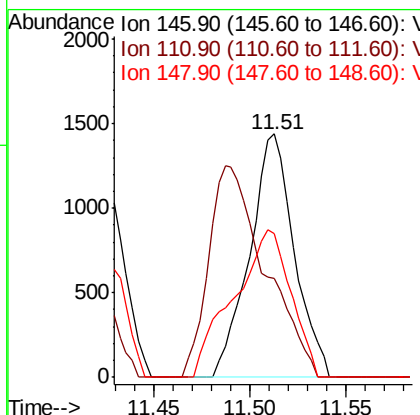
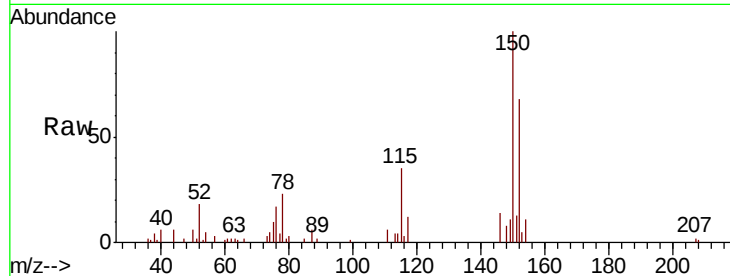
#88
 1,4-Dichlorobenzene
 Concen: 0.46 ug/l m
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	27.5	19.4	58.1
148	47.2	31.7	95.1

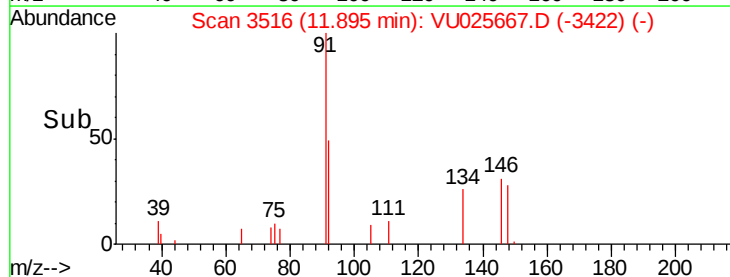
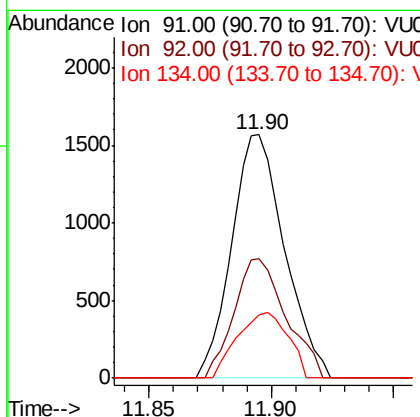
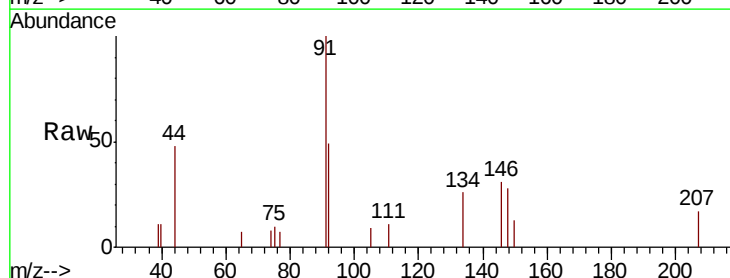
Manual Integrations
 APPROVED

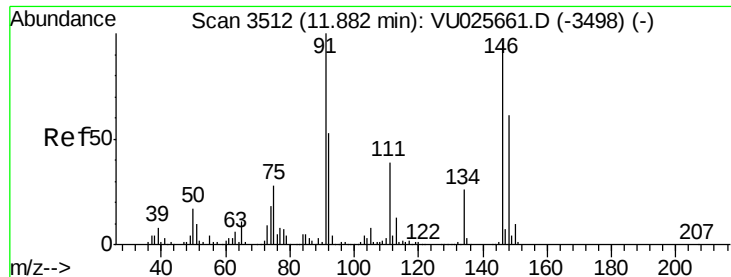
MMDadoda
 7/31/2018 3:48:37 PM



#89
 n-Butylbenzene
 Concen: 0.29 ug/l
 RT: 11.90 min Scan# 3516
 Delta R.T. 0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	48.0	26.5	79.5
134	25.8	13.6	40.7





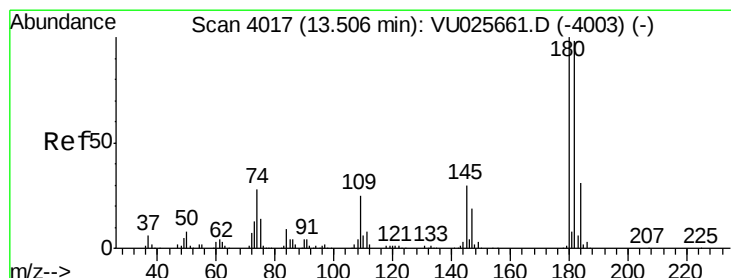
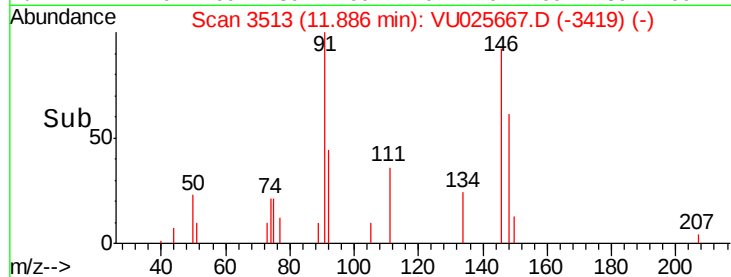
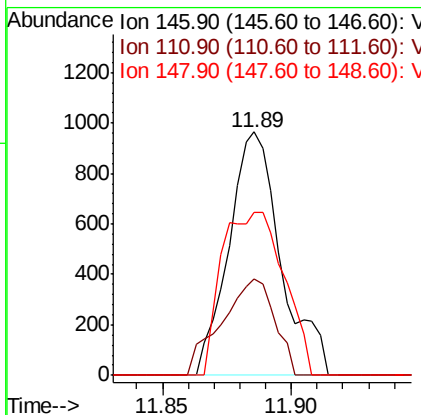
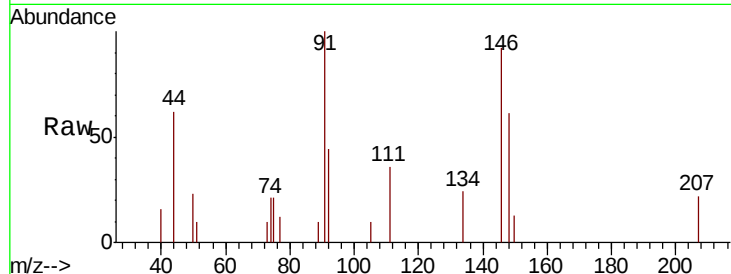
#91
 1,2-Dichlorobenzene
 Concen: 0.29 ug/l
 RT: 11.89 min Scan# 3513
 Delta R.T. 0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.6	61.8
148	80.0	31.5	94.5

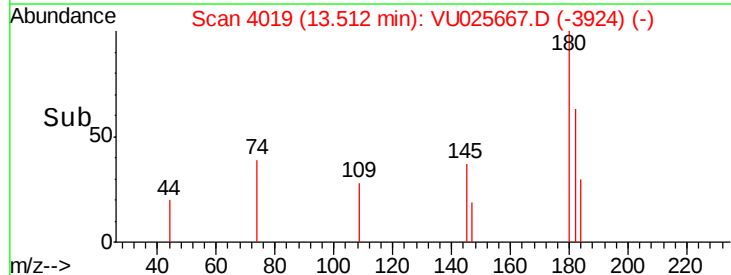
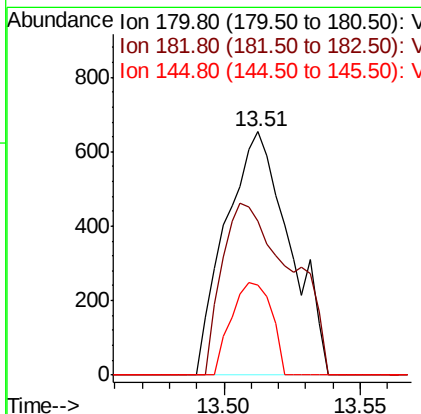
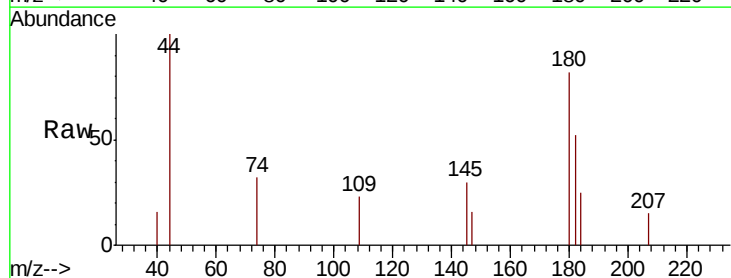
Manual Integrations
 APPROVED

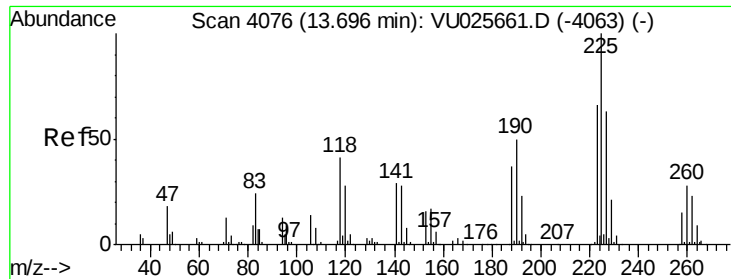
MMDadoda
 7/31/2018 3:48:37 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 0.33 ug/l
 RT: 13.51 min Scan# 4019
 Delta R.T. 0.01 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	76.7	47.3	141.9
145	23.8	14.9	44.7





#94

Hexachlorobutadiene

Concen: 0.37 ug/l

RT: 13.70 min Scan# 4076

Delta R.T. 0.00 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Instrument :

MSVOA_U

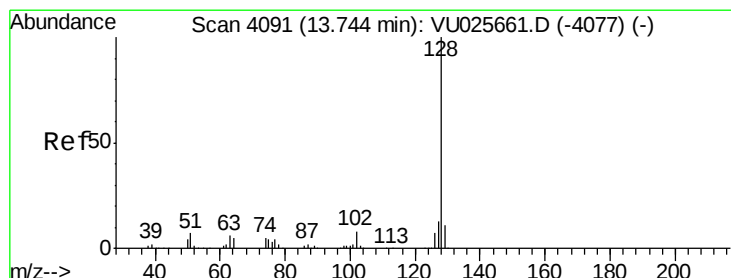
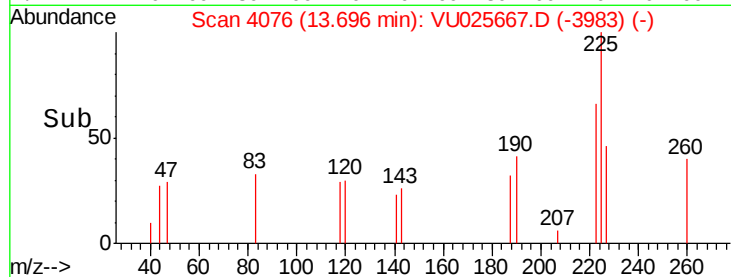
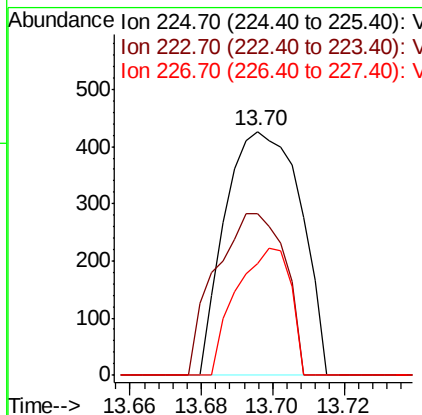
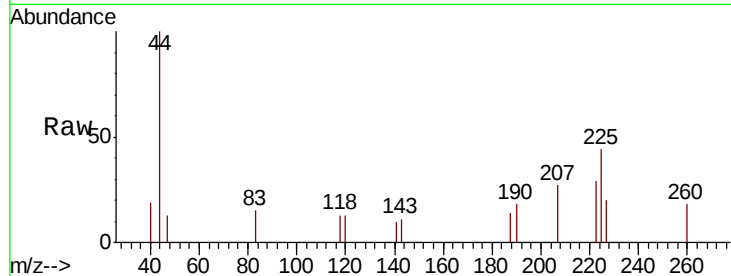
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	225	Resp:	622
Ion Ratio	Lower	Upper	
225	100		
223	60.9	31.9	95.7
227	37.6	32.3	96.9

Manual Integrations
APPROVED

MMDadoda
7/31/2018 3:48:37 PM



#95

Naphthalene

Concen: 1.47 ug/l

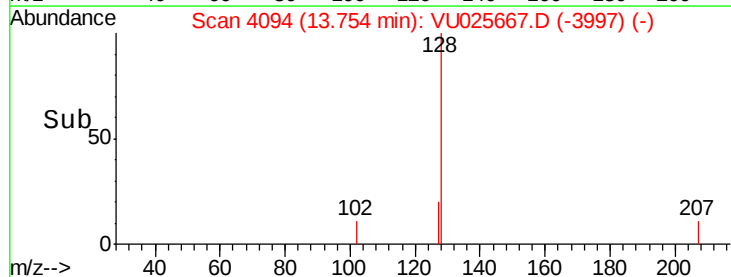
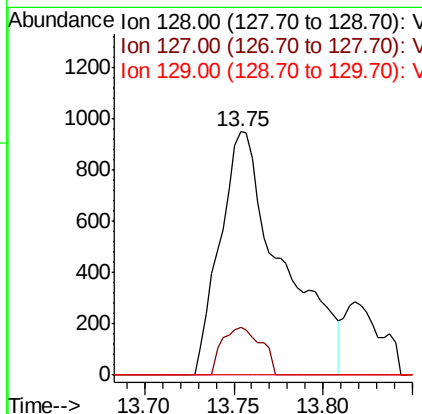
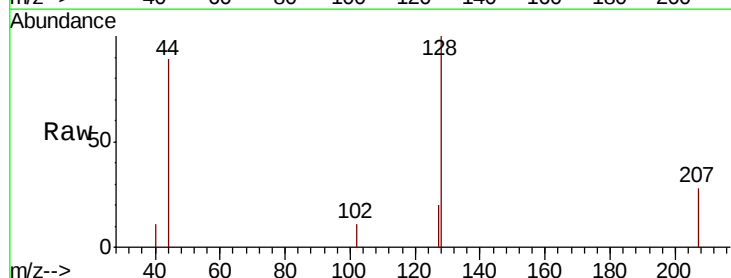
RT: 13.75 min Scan# 4094

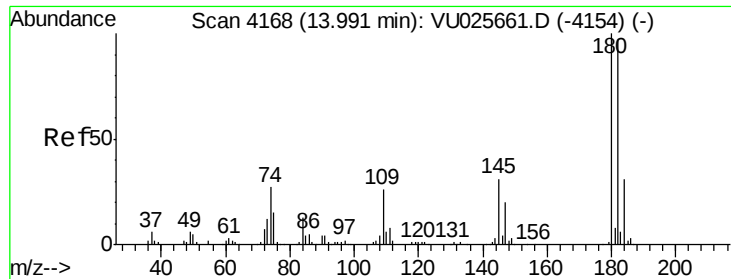
Delta R.T. 0.01 min

Lab File: VU025667.D

Acq: 27 Jul 2018 14:24

Tgt Ion:	128	Resp:	2296
Ion Ratio	Lower	Upper	
128	100		
127	12.2	10.5	15.7
129	0.0	8.3	12.5#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.30 ug/l
 RT: 13.99 min Scan# 4169
 Delta R.T. 0.00 min
 Lab File: VU025667.D
 Acq: 27 Jul 2018 14:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	108.7	47.8	143.3
145	11.1	15.6	46.8

Manual Integrations
 APPROVED

MMDadoda
 7/31/2018 3:48:37 PM

