

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100118\
 Data File : VU027332.D
 Acq On : 01 Oct 2018 20:43
 Operator : MD/SY
 Sample : J5137-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RAV-GT-103-TRAFILER-EFFLUENT-

Quant Time: Oct 02 07:25:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 02:04:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	99396	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	168188	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	157567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	76460	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	98249	59.20	ug/l	0.00
Spiked Amount			Recovery	=	118.40%	
35) Dibromofluoromethane	4.88	113	68753	59.65	ug/l	0.00
Spiked Amount			Recovery	=	119.30%	
50) Toluene-d8	7.57	98	263181	61.01	ug/l	0.00
Spiked Amount			Recovery	=	122.02%	
62) 4-Bromofluorobenzene	10.31	95	89205	55.64	ug/l	0.00
Spiked Amount			Recovery	=	111.28%	

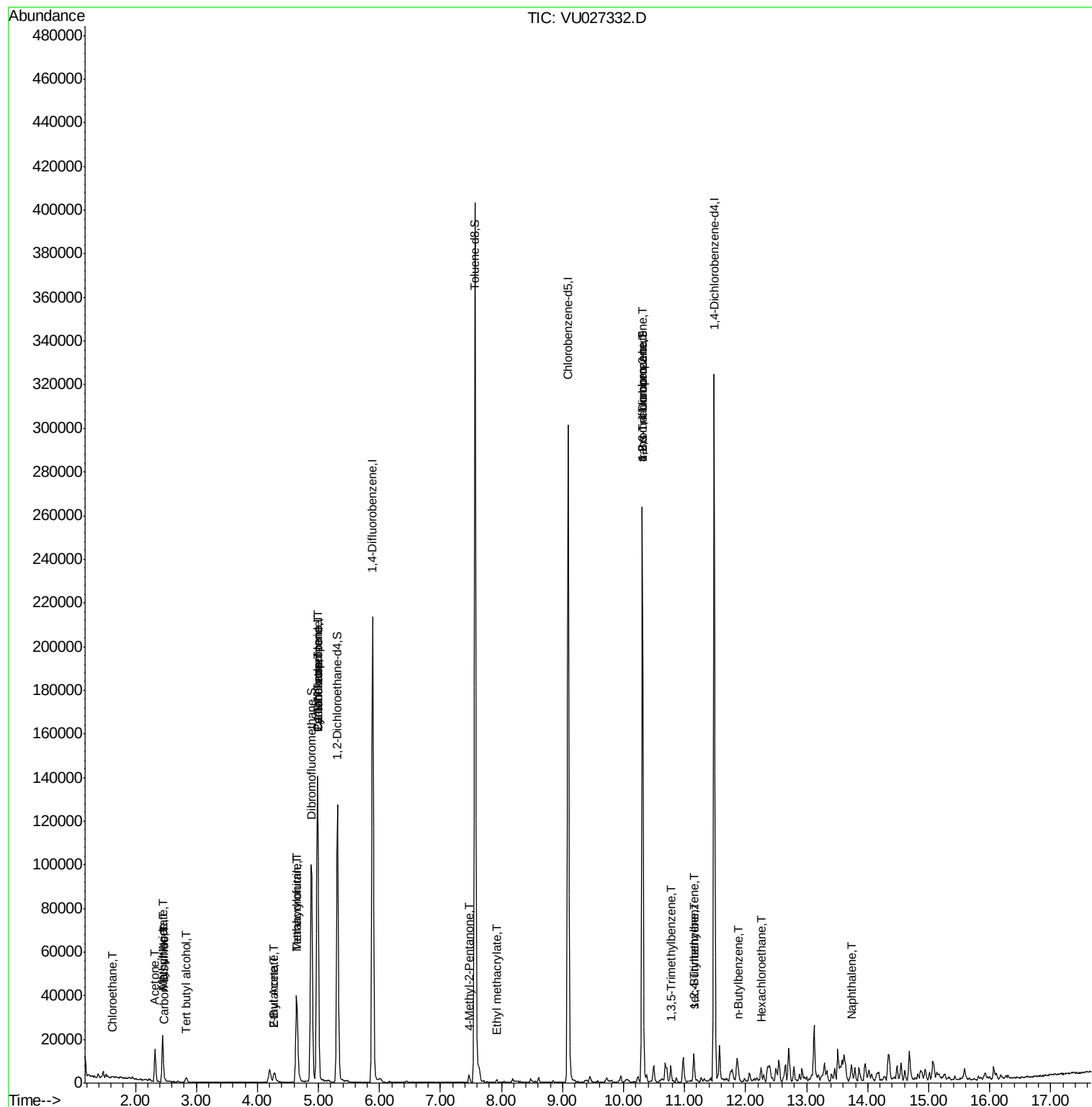
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.62	64	288	0.263	ug/l #	44
11) Tert butyl alcohol	2.83	59	2565	7.339	ug/l #	72
14) Allyl chloride	2.45	41	2060	0.826	ug/l #	65
16) Acetone	2.32	43	15793	16.107	ug/l	99
17) Carbon Disulfide	2.48	76	816	0.215	ug/l #	75
18) Methyl Acetate	2.45	43	5647	2.525	ug/l #	56
25) 2-Butanone	4.28	43	8887	6.647	ug/l	95
29) Tetrahydrofuran	4.64	42	32259	38.283	ug/l	98
31) Cyclohexane	4.99	56	2540	0.720	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	9305	5.095	ug/l #	50
37) Ethyl Acetate	4.28	43	8887	3.766	ug/l #	70
38) Carbon Tetrachloride	4.98	117	10388	6.297	ug/l #	17
41) Methacrylonitrile	4.64	41	18389	13.785	ug/l #	50
51) 4-Methyl-2-Pentanone	7.47	43	2927	1.229	ug/l #	85
56) Ethyl methacrylate	7.93	69	40	2.288	ug/l #	56
76) 1,2,3-Trichloropropane	10.31	75	47360	23.895	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	3773	0.835	ug/l	95
81) trans-1,4-Dichloro-2-buten	10.31	75	47360	62.535	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	6329	1.370	ug/l	99
85) sec-Butylbenzene	11.15	105	6329	1.149	ug/l #	58
89) n-Butylbenzene	11.88	91	787	2.101	ug/l #	8
90) Hexachloroethane	12.25	117	414	0.466	ug/l #	12
95) Naphthalene	13.74	128	2528	2.083	ug/l #	75

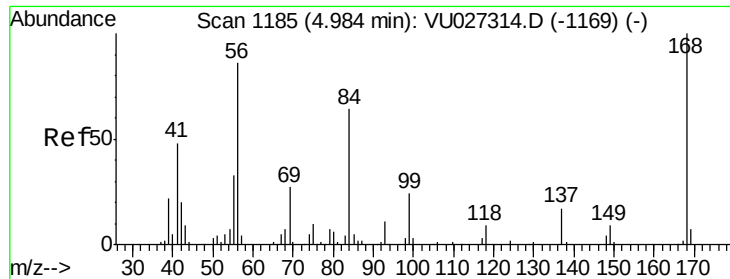
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 02 07:25:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 02:04:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

Instrument :

MSVOA_U

ClientSampleId :

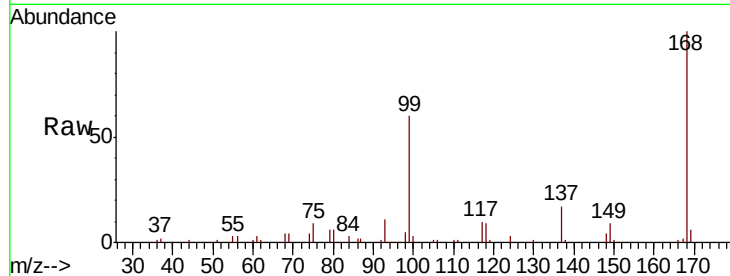
RAV-GT-103-TRAFILER-EFFLUENT-

Tot Ion:168 Resp: 99396

Ion Ratio Lower Upper

168 100

99 59.8 50.8 76.2



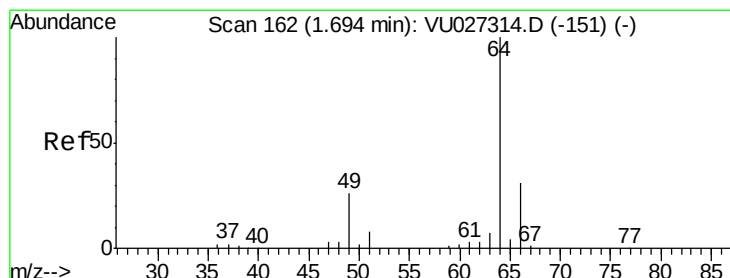
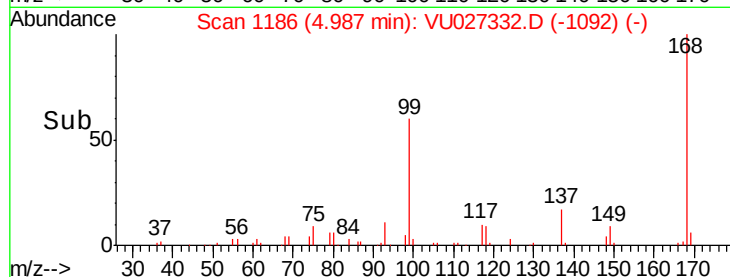
Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)

4.99

4.95 5.00 5.05

Time-->



#6

Chloroethane

Concen: 0.263 ug/l

RT: 1.62 min Scan# 139

Delta R.T. -0.07 min

Lab File: VU027332.D

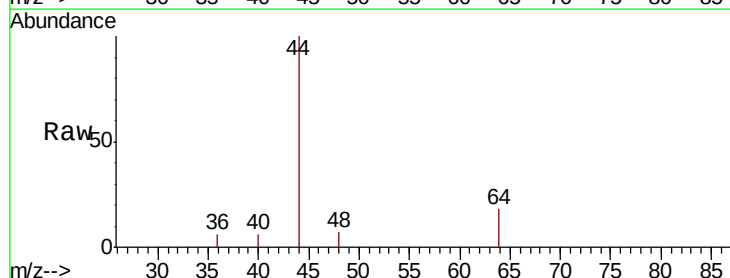
Acq: 01 Oct 2018 20:43

Tgt Ion: 64 Resp: 288

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



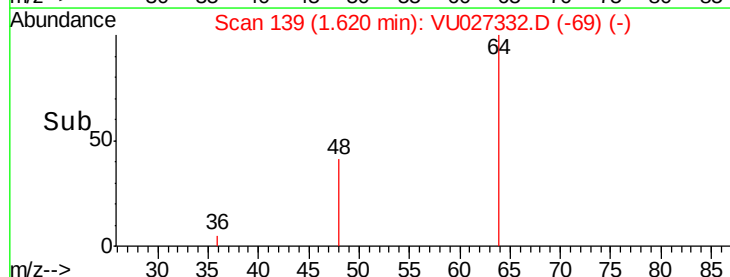
Abundance Ion 63.90 (63.60 to 64.60): VU027314.D (-151) (-)

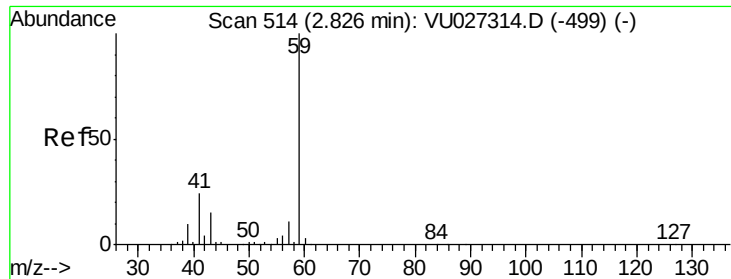
Ion 65.90 (65.60 to 66.60): VU027314.D (-151) (-)

1.62

1.58 1.60 1.62

Time-->



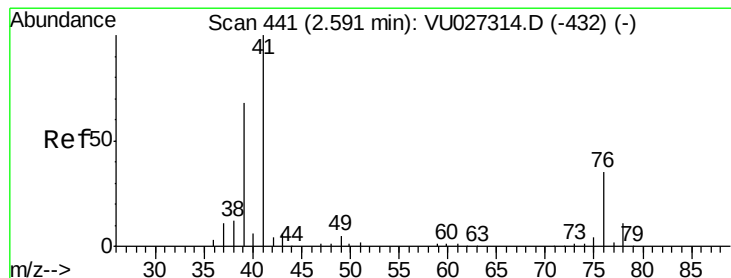
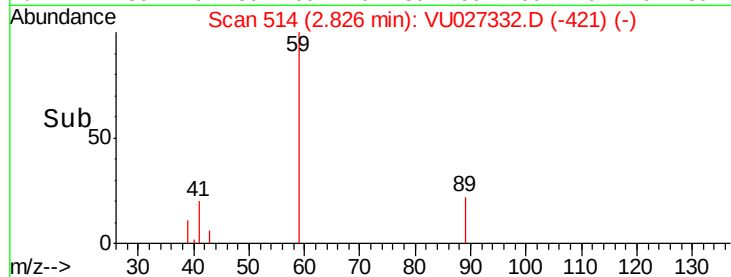
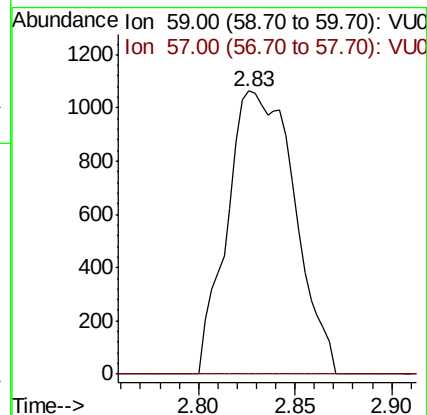
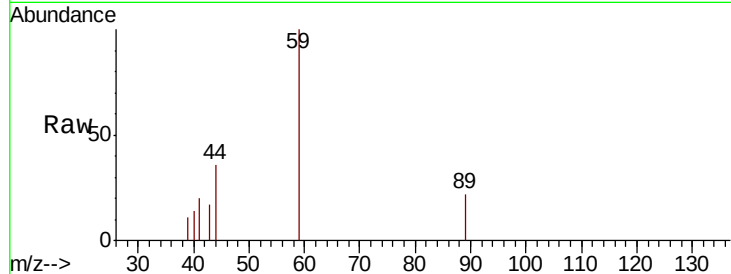


#11

Tert butyl alcohol
 Concen: 7.339 ug/l
 RT: 2.83 min Scan# 514
 Delta R.T. -0.00 min
 Lab File: VU027332.D
 Acq: 01 Oct 2018 20:43

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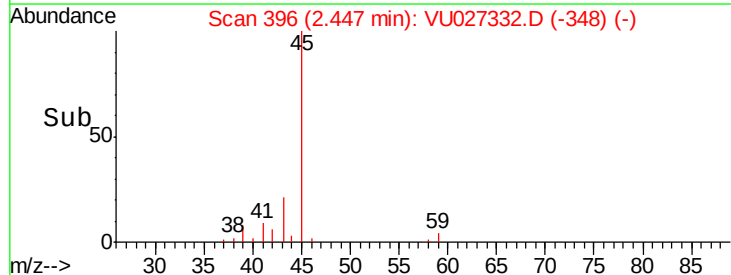
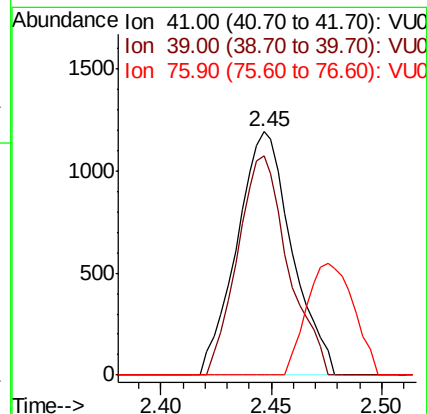
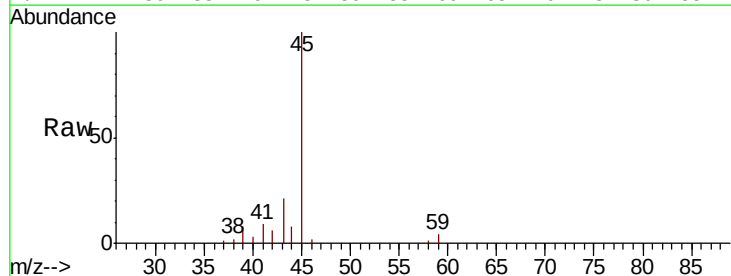
Tot Ion: 59 Resp: 2565
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

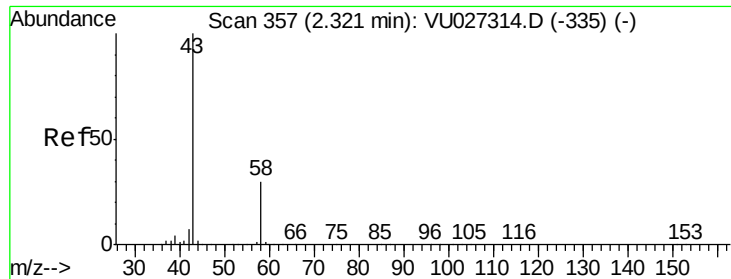


#14

Allyl chloride
 Concen: 0.826 ug/l
 RT: 2.45 min Scan# 396
 Delta R.T. -0.14 min
 Lab File: VU027332.D
 Acq: 01 Oct 2018 20:43

Tgt Ion: 41 Resp: 2060
 Ion Ratio Lower Upper
 41 100
 39 82.8 51.8 77.8#
 76 0.0 25.9 38.9#





#16

Acetone

Concen: 16.107 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

Instrument :

MSVOA_U

ClientSampleId :

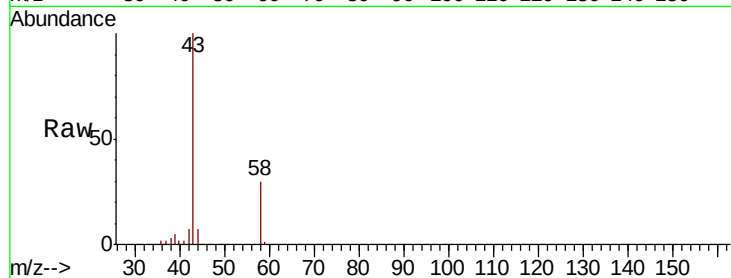
RAV-GT-103-TRAFILER-EFFLUENT-

Tot Ion: 43 Resp: 15793

Ion Ratio Lower Upper

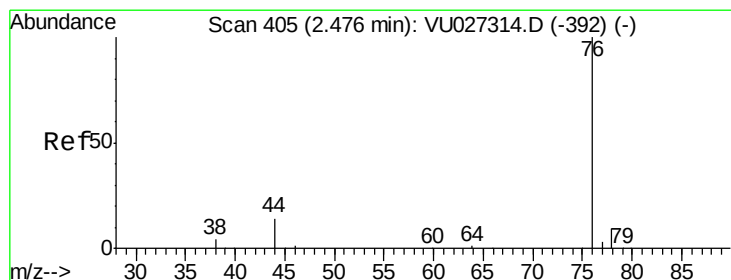
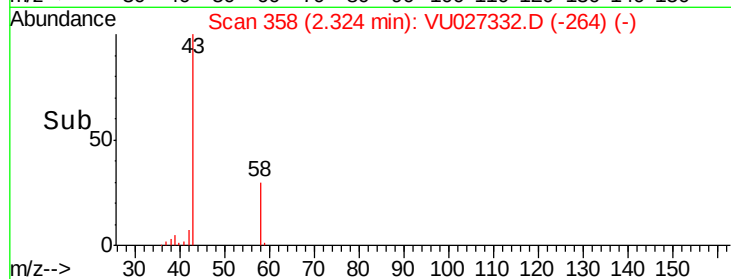
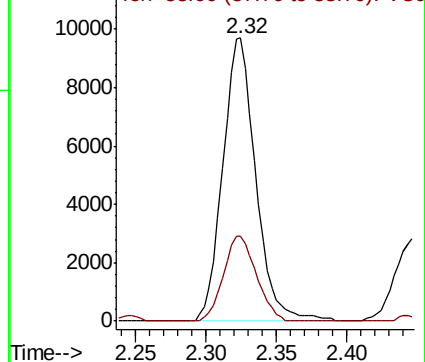
43 100

58 29.8 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 0.215 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU027332.D

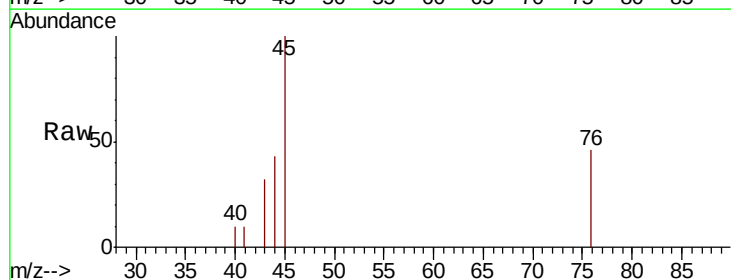
Acq: 01 Oct 2018 20:43

Tgt Ion: 76 Resp: 816

Ion Ratio Lower Upper

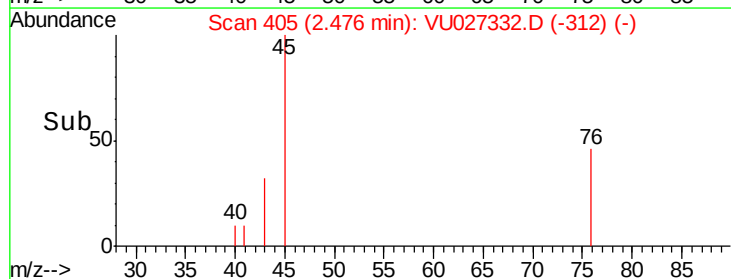
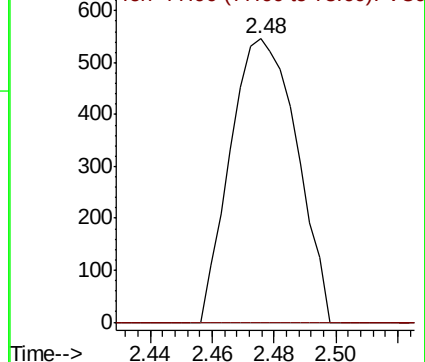
76 100

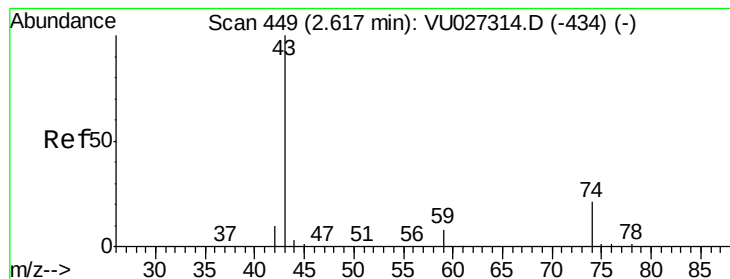
78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0





#18

Methvl Acetate

Concen: 2.525 ug/l

RT: 2.45 min Scan# 396

Delta R.T. -0.17 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

Instrument :

MSVOA_U

ClientSampleId :

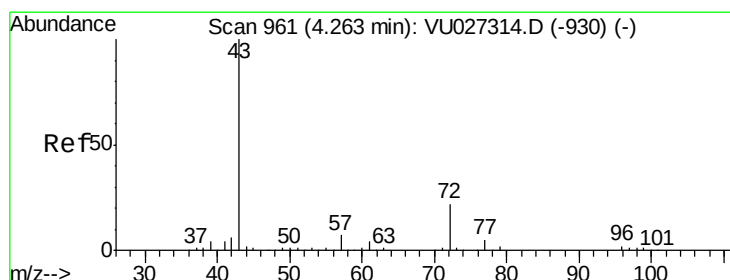
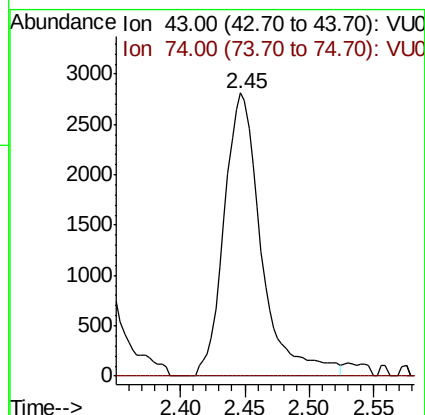
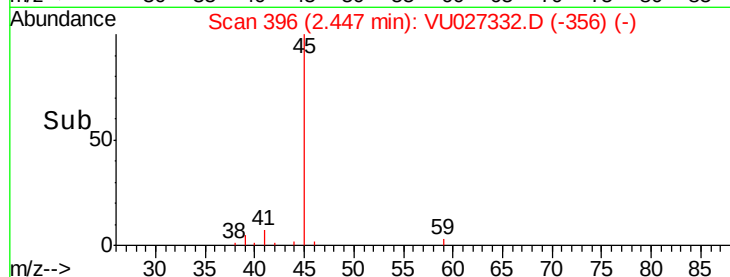
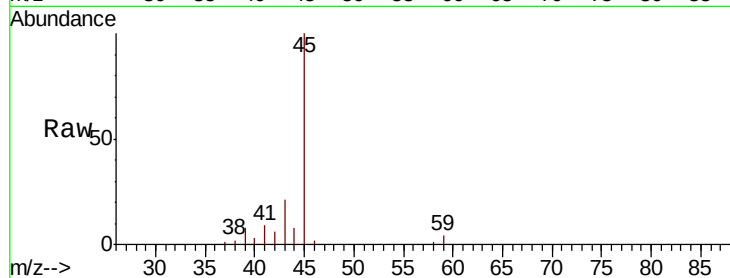
RAV-GT-103-TRAFILER-EFFLUENT-

Tot Ion: 43 Resp: 5647

Ion Ratio Lower Upper

43 100

74 0.0 16.5 24.7#



#25

2-Butanone

Concen: 6.647 ug/l

RT: 4.28 min Scan# 965

Delta R.T. 0.01 min

Lab File: VU027332.D

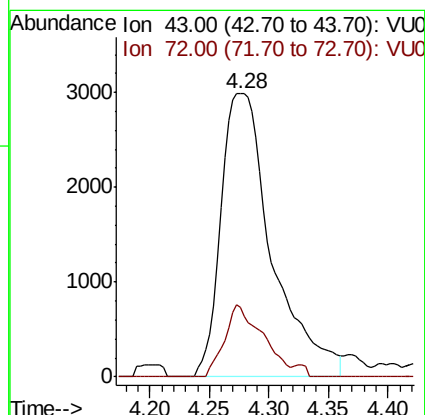
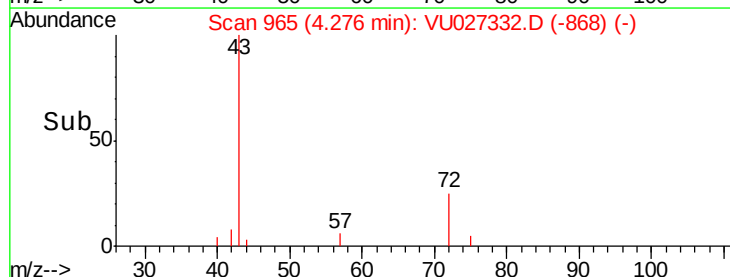
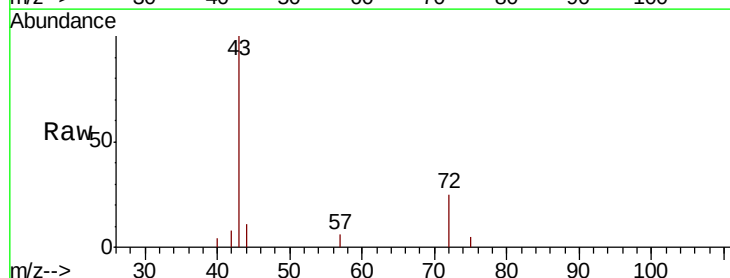
Acq: 01 Oct 2018 20:43

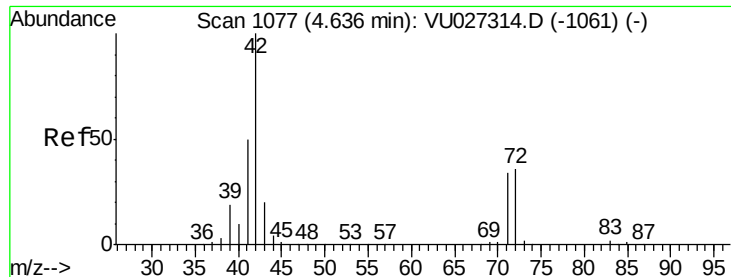
Tgt Ion: 43 Resp: 8887

Ion Ratio Lower Upper

43 100

72 24.6 17.8 26.6





#29

Tetrahydrofuran

Concen: 38.283 ug/l

RT: 4.64 min Scan# 1079

Delta R.T. 0.01 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

Instrument :

MSVOA_U

ClientSampleId :

RAV-GT-103-TRAFILER-EFFLUENT-

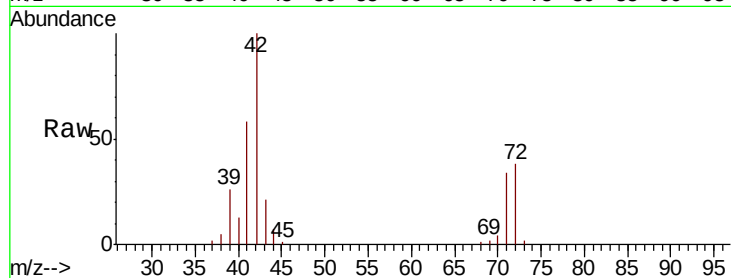
Tot Ion: 42 Resp: 32259

Ion Ratio Lower Upper

42 100

72 36.5 30.1 45.1

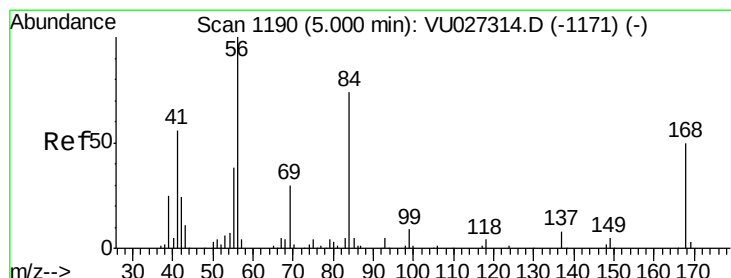
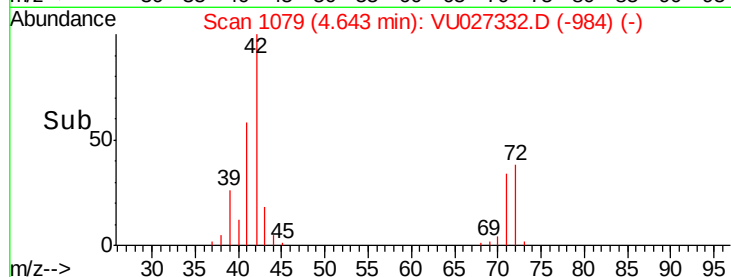
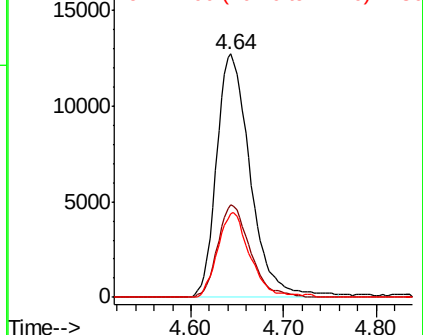
71 32.9 27.7 41.5



Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0



#31

Cyclohexane

Concen: 0.720 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

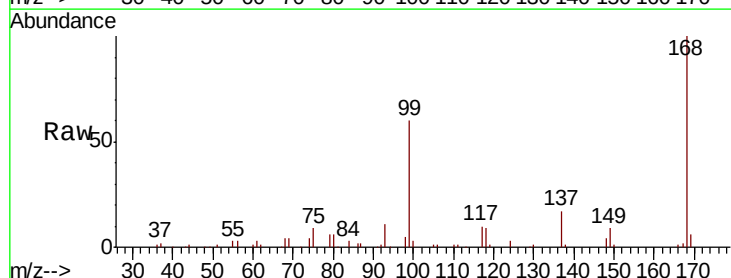
Tgt Ion: 56 Resp: 2540

Ion Ratio Lower Upper

56 100

69 160.4 24.1 36.1#

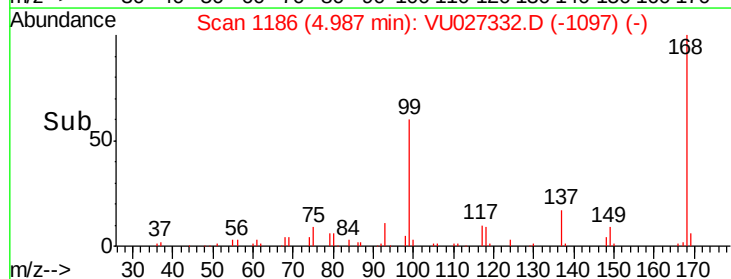
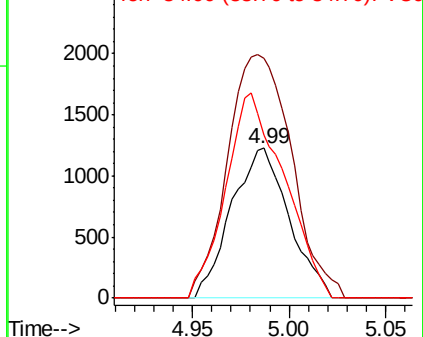
84 108.7 59.1 88.7#

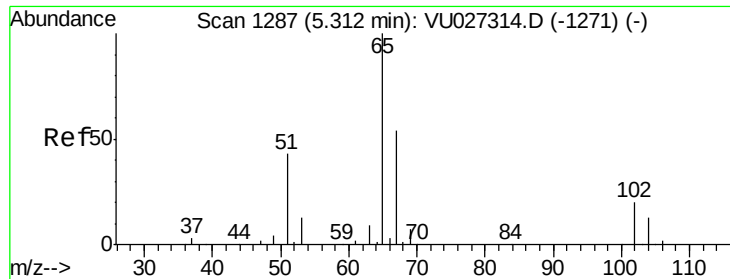


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

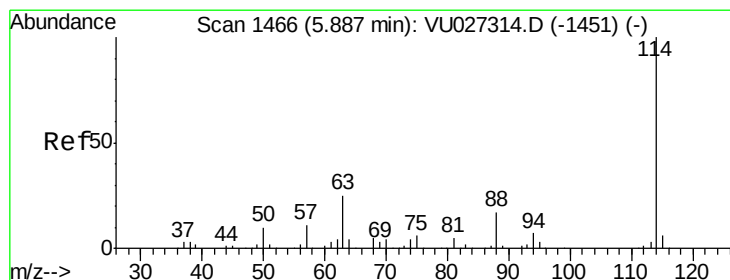
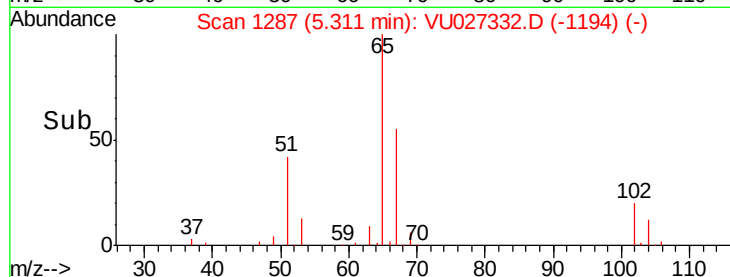
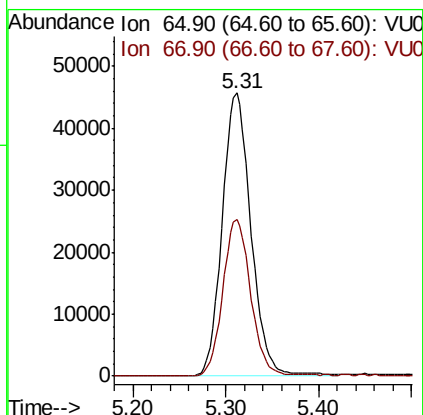
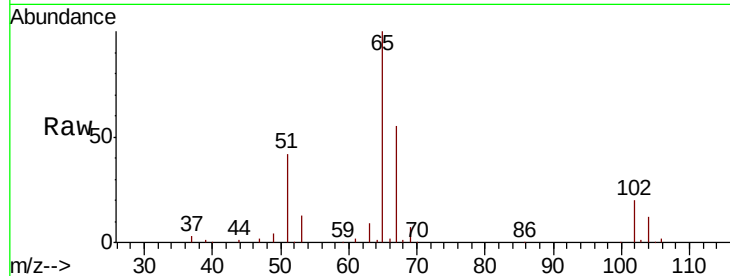




#33
 1,2-Dichloroethane-d4
 Concen: 59.195 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027332.D
 Acq: 01 Oct 2018 20:43

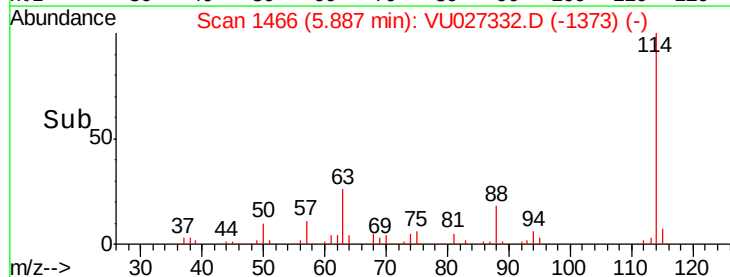
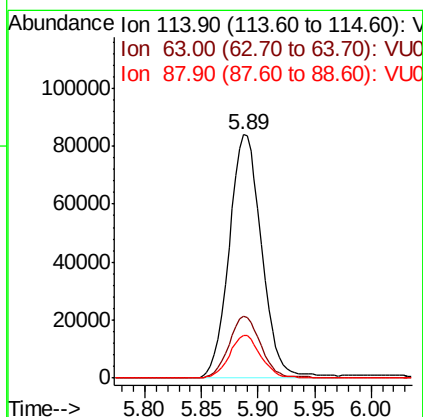
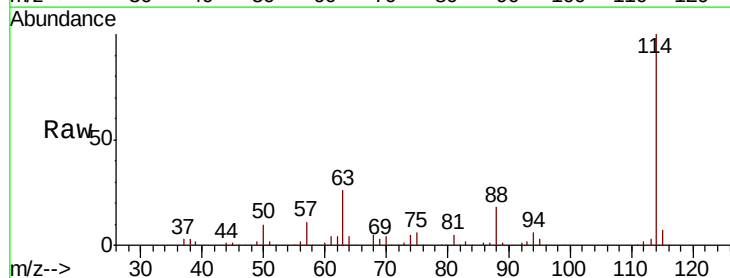
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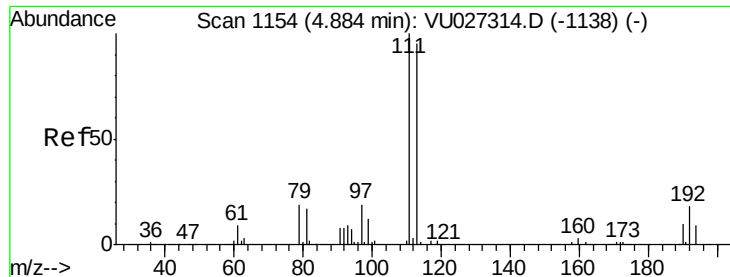
Tot Ion: 65 Resp: 98249
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027332.D
 Acq: 01 Oct 2018 20:43

Tgt Ion: 114 Resp: 168188
 Ion Ratio Lower Upper
 114 100
 63 25.5 0.0 50.2
 88 17.5 0.0 33.8

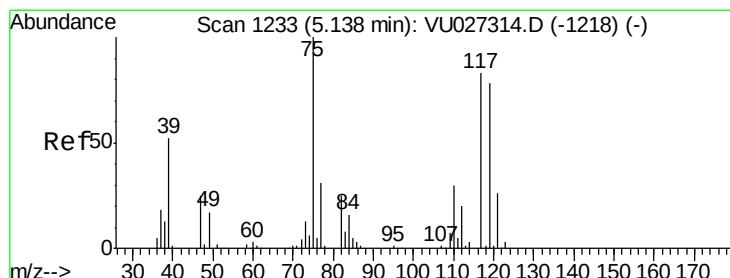
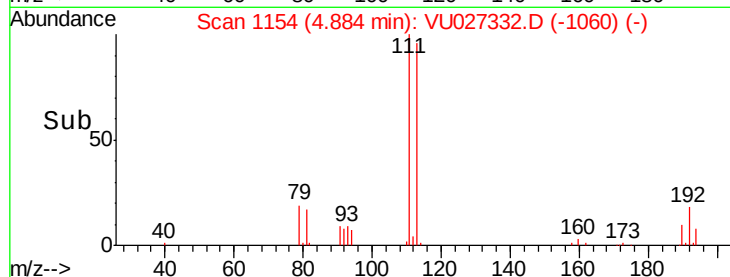
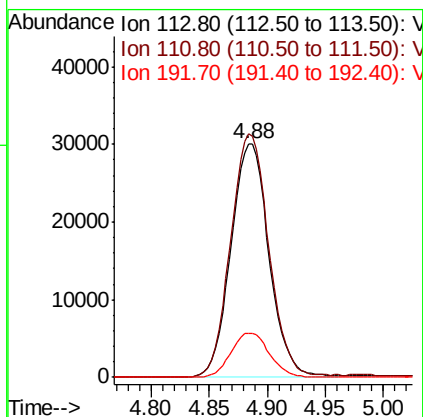
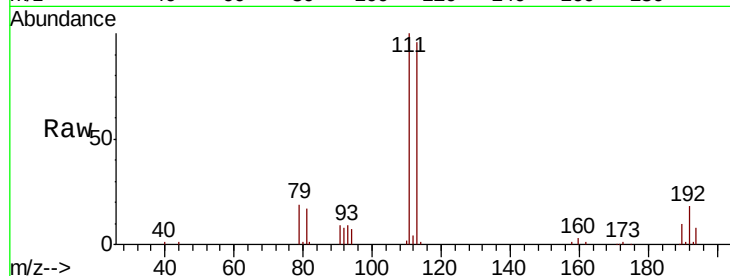




#35
 Dibromofluoromethane
 Concen: 59.648 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU027332.D
 Acq: 01 Oct 2018 20:43

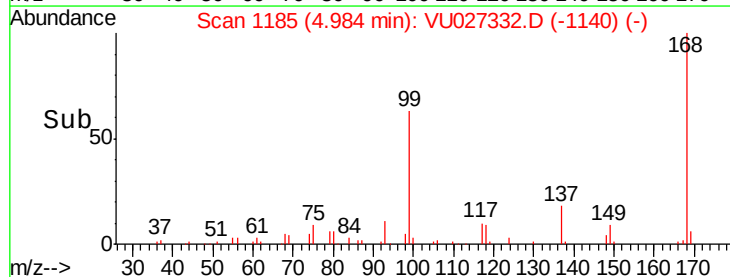
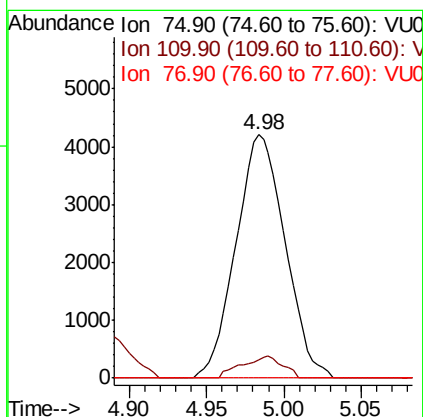
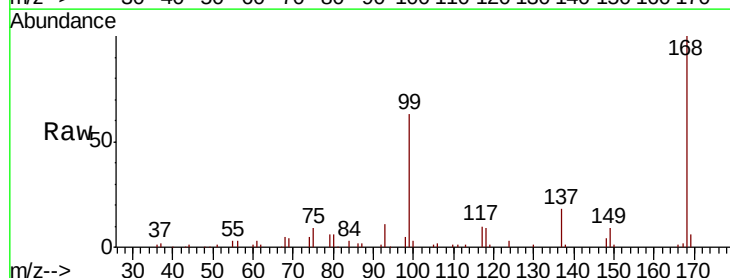
Instrument :
 MSVOA_U
 ClientSampleId :
 RAV-GT-103-TRAFILER-EFFLUENT-

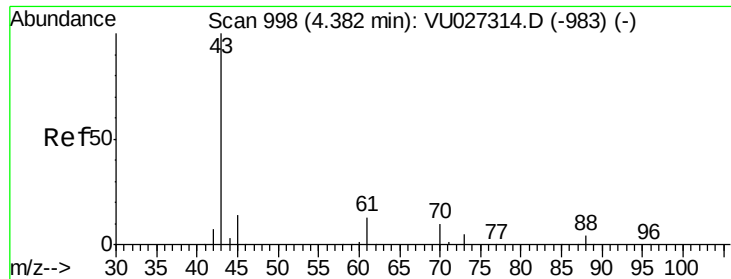
Tot Ion:113 Resp: 68753
 Ion Ratio Lower Upper
 113 100
 111 104.4 83.1 124.7
 192 19.1 15.4 23.0



#36
 1,1-Dichloropropene
 Concen: 5.095 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027332.D
 Acq: 01 Oct 2018 20:43

Tgt Ion: 75 Resp: 9305
 Ion Ratio Lower Upper
 75 100
 110 7.6 15.5 46.5#
 77 0.0 25.4 38.0#

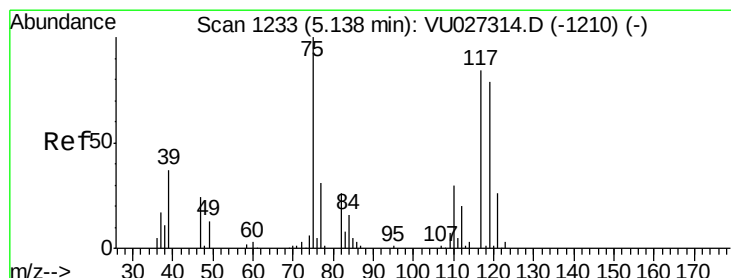
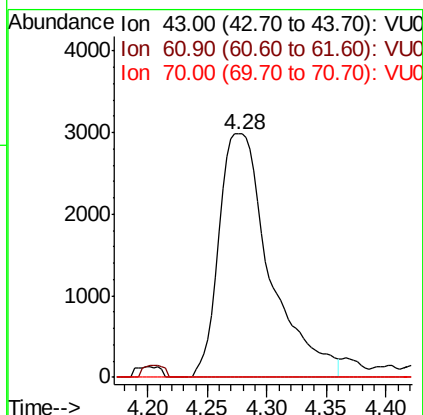
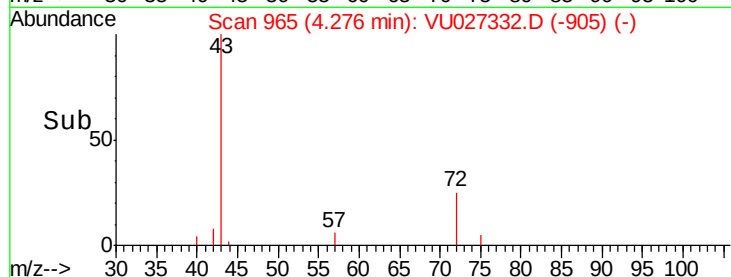
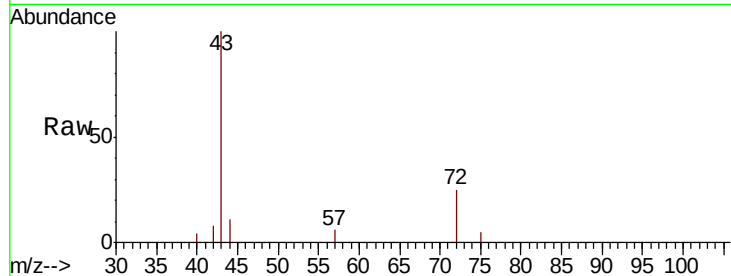




#37
Ethyl Acetate
Concen: 3.766 ug/l
RT: 4.28 min Scan# 965
Delta R.T. -0.11 min
Lab File: VU027332.D
Acq: 01 Oct 2018 20:43

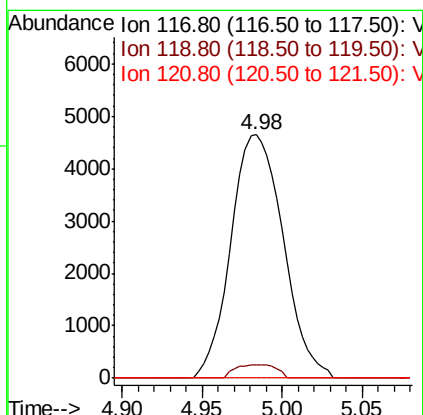
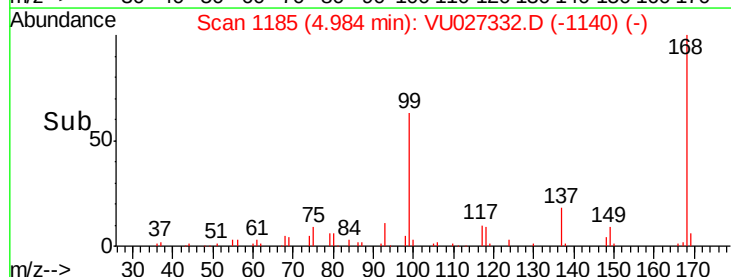
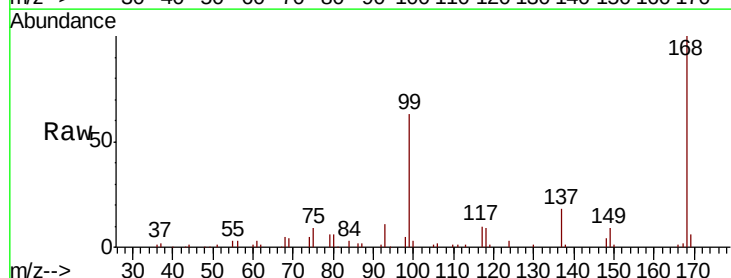
Instrument :
MSVOA_U
ClientSampleId :
RAV-GT-103-TRAFILER-EFFLUENT-

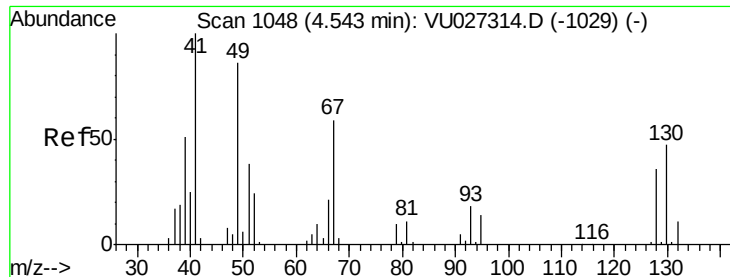
Tot Ion: 43 Resp: 8887
Ion Ratio Lower Upper
43 100
61 0.0 10.7 16.1#
70 0.0 7.4 11.2#



#38
Carbon Tetrachloride
Concen: 6.297 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.15 min
Lab File: VU027332.D
Acq: 01 Oct 2018 20:43

Tgt Ion: 117 Resp: 10388
Ion Ratio Lower Upper
117 100
119 5.3 74.5 111.7#
121 0.0 24.6 37.0#

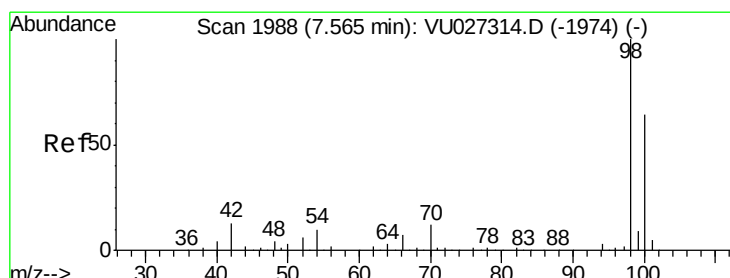
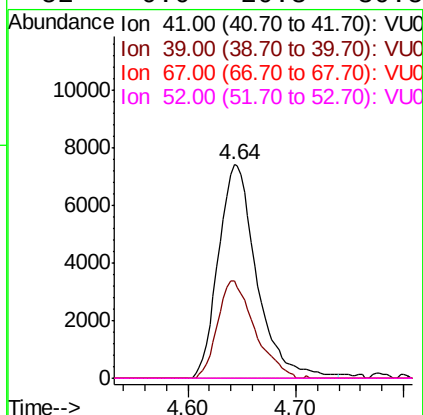
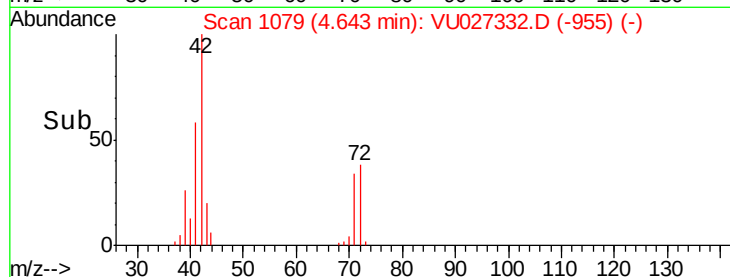
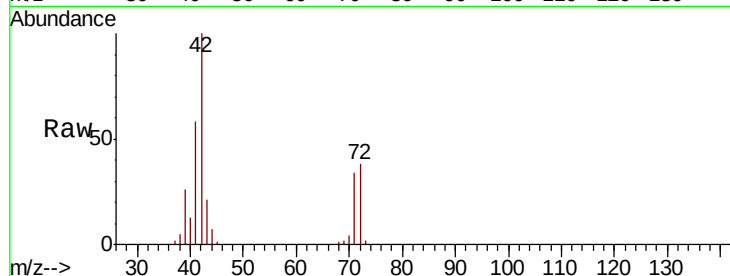




#41
Methacrylonitrile
Concen: 13.785 ug/l
RT: 4.64 min Scan# 1079
Delta R.T. 0.10 min
Lab File: VU027332.D
Acq: 01 Oct 2018 20:43

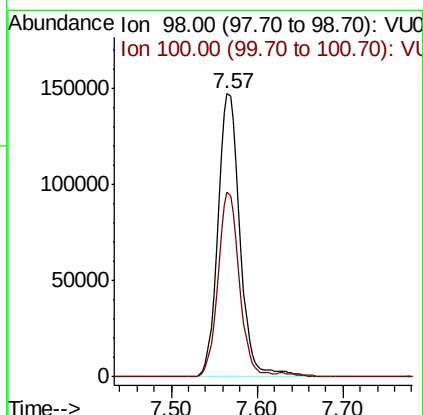
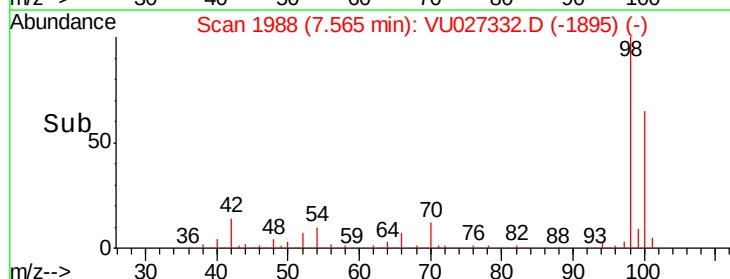
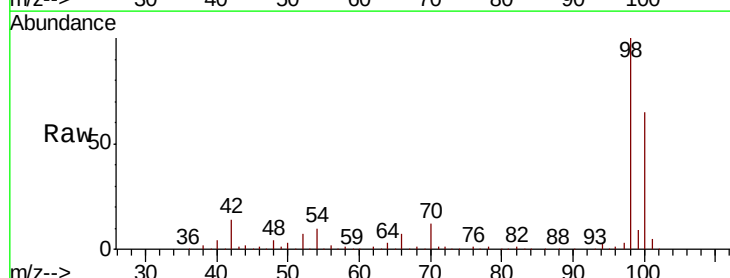
Instrument :
MSVOA_U
ClientSampleId :
RAV-GT-103-TRAFILER-EFFLUENT-

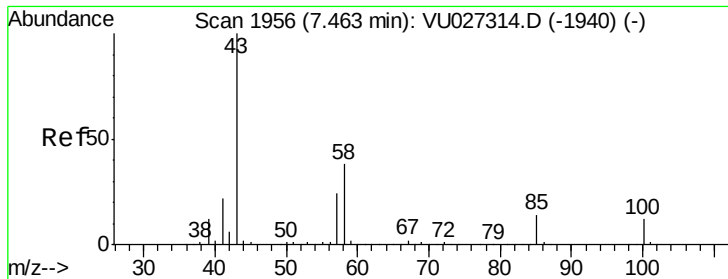
Tot Ion: 41 Resp: 18389
Ion Ratio Lower Upper
41 100
39 43.9 41.1 61.7
67 0.0 50.4 75.6#
52 0.0 20.3 30.5#



#50
Toluene-d8
Concen: 61.006 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU027332.D
Acq: 01 Oct 2018 20:43

Tgt Ion: 98 Resp: 263181
Ion Ratio Lower Upper
98 100
100 62.9 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.229 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

Instrument :

MSVOA_U

ClientSampleId :

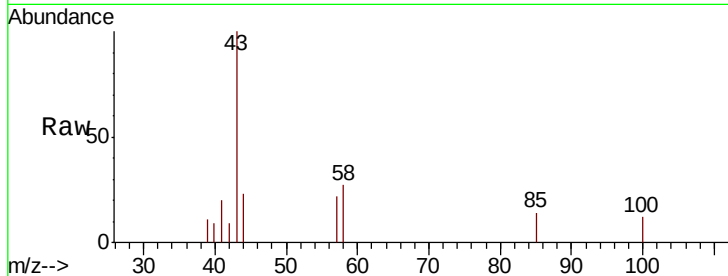
RAV-GT-103-TRAFILER-EFFLUENT-

Tot Ion: 43 Resp: 2927

Ion Ratio Lower Upper

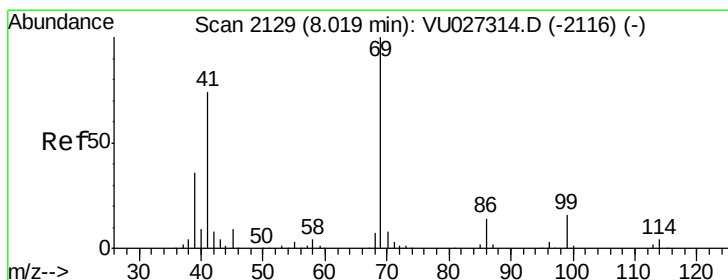
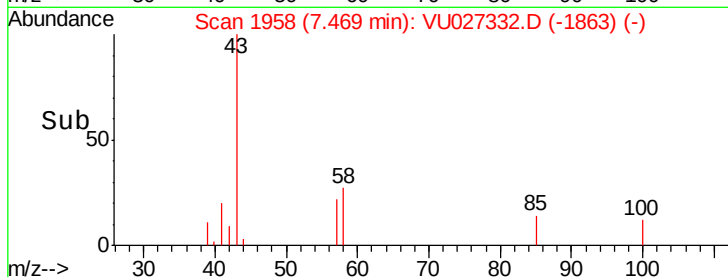
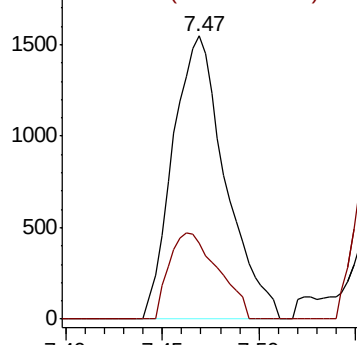
43 100

58 28.4 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#56

Ethyl methacrylate

Concen: 2.288 ug/l

RT: 7.93 min Scan# 2101

Delta R.T. -0.09 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

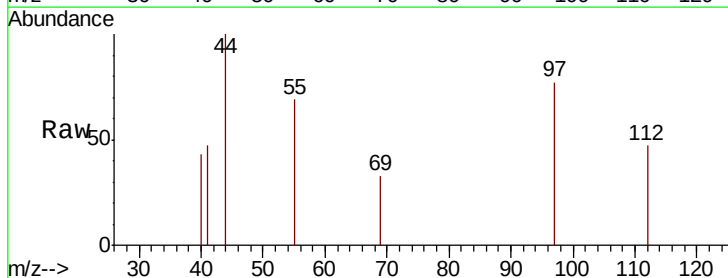
Tgt Ion: 69 Resp: 40

Ion Ratio Lower Upper

69 100

41 105.0 60.0 90.0#

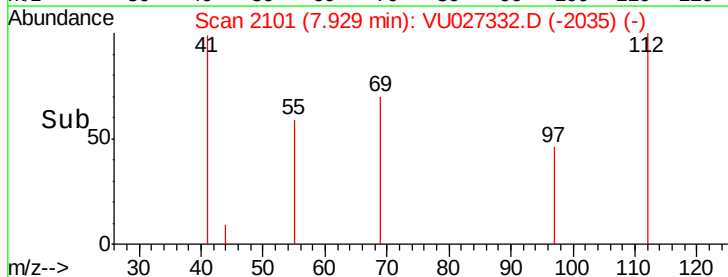
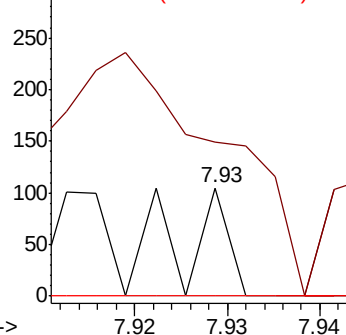
39 0.0 29.5 44.3#

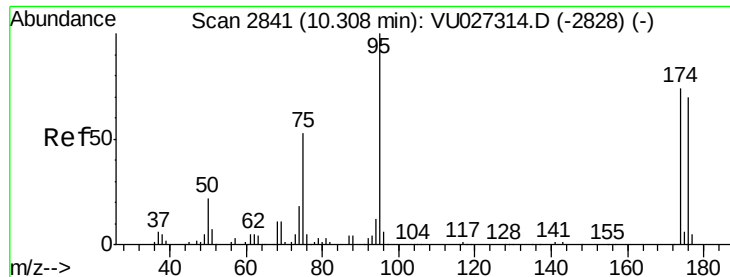


Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

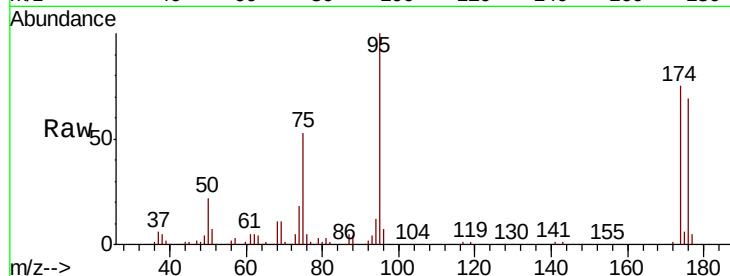




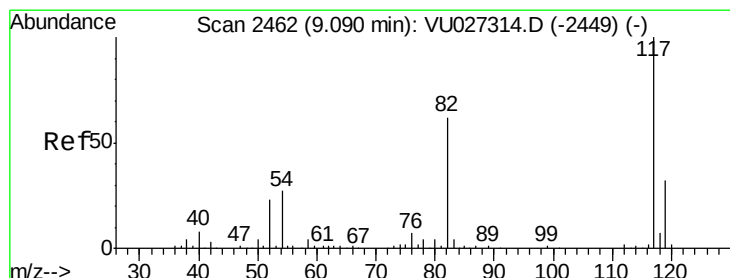
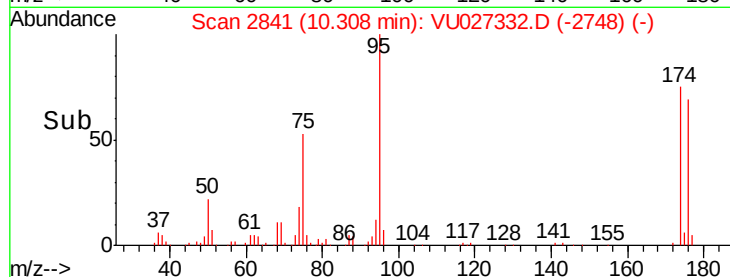
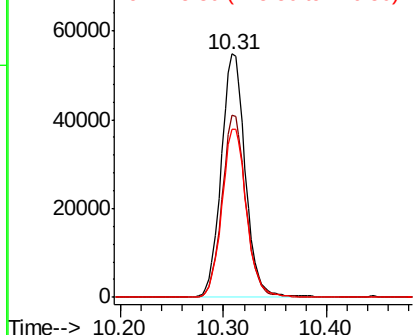
#62
 4-Bromofluorobenzene
 Concen: 55.640 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027332.D
 Acq: 01 Oct 2018 20:43

Instrument :
 MSVOA_U
 ClientSampleId :
 RAV-GT-103-TRAFILER-EFFLUENT-

Tot Ion: 95 Resp: 89205
 Ion Ratio Lower Upper
 95 100
 174 73.9 0.0 147.8
 176 70.2 0.0 140.8

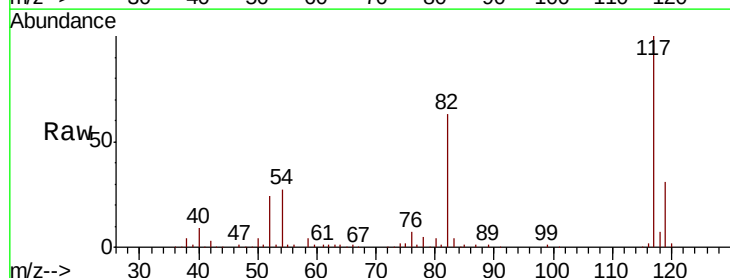


Abundance Ion 94.90 (94.60 to 95.60): VU0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

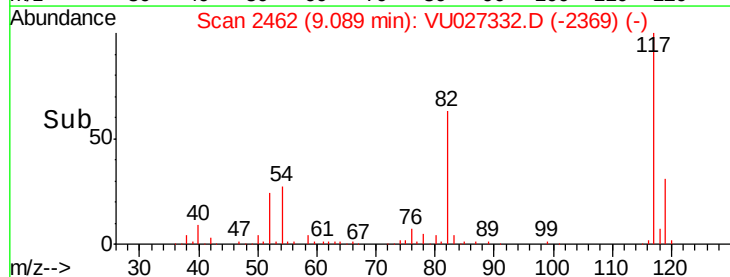
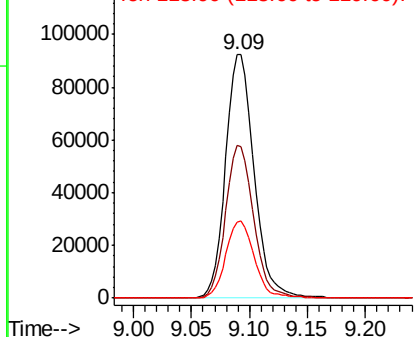


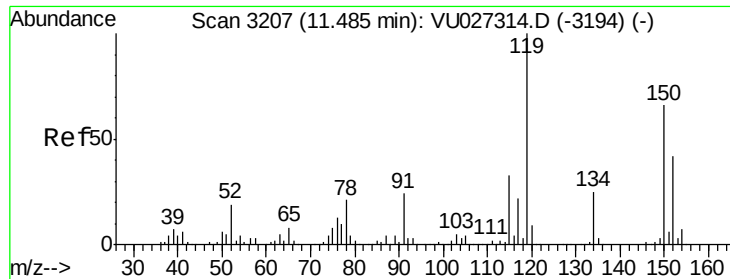
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027332.D
 Acq: 01 Oct 2018 20:43

Tgt Ion: 117 Resp: 157567
 Ion Ratio Lower Upper
 117 100
 82 62.6 49.2 73.8
 119 31.4 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VU0
 Ion 118.90 (118.60 to 119.60): V



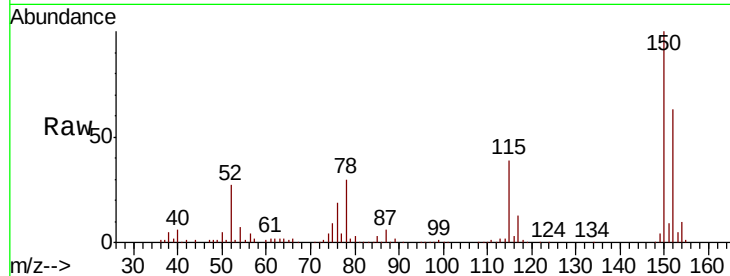


#72

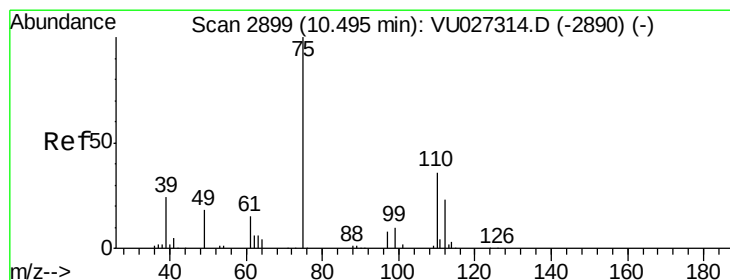
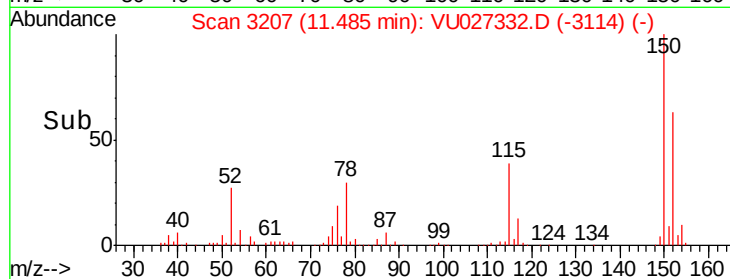
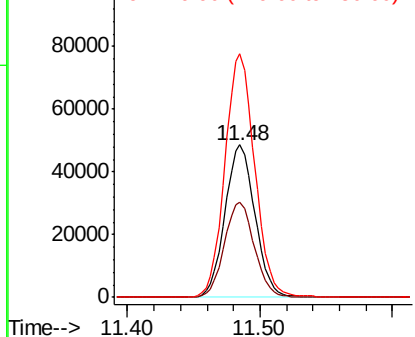
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027332.D
Acq: 01 Oct 2018 20:43

Instrument :
MSVOA_U
ClientSampleId :
RAV-GT-103-TRAFILER-EFFLUENT-

Tot Ion:152 Resp: 76460
Ion Ratio Lower Upper
152 100
115 62.3 43.4 130.2
150 158.7 0.0 349.2



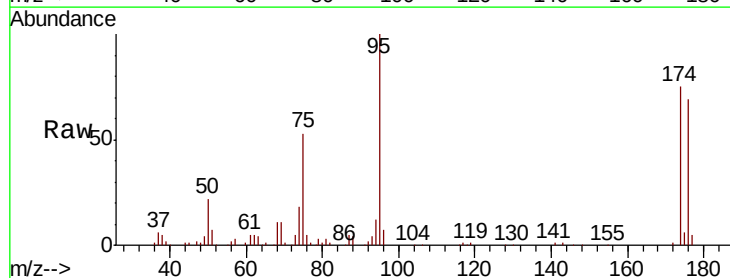
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



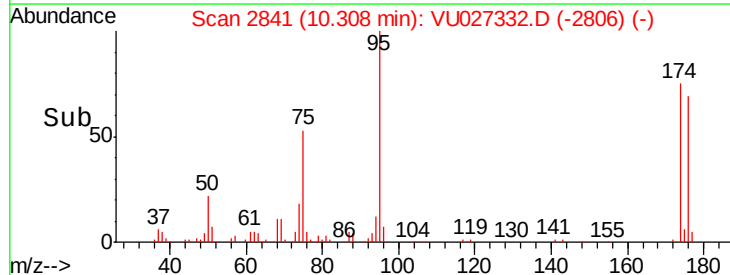
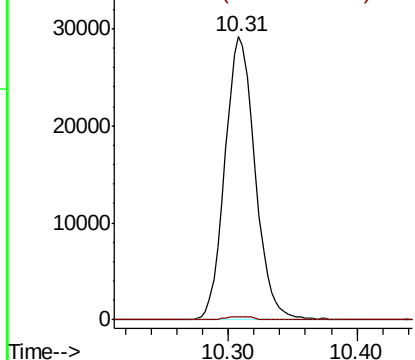
#76

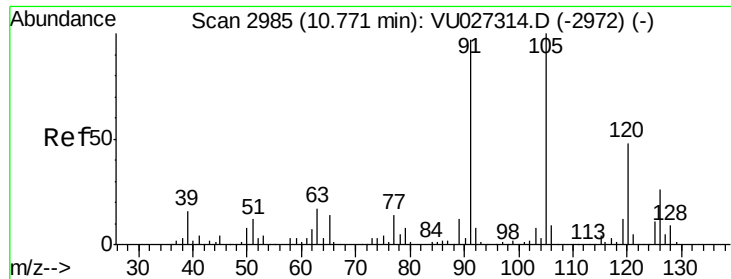
1,2,3-Trichloropropane
Concen: 23.895 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU027332.D
Acq: 01 Oct 2018 20:43

Tgt Ion: 75 Resp: 47360
Ion Ratio Lower Upper
75 100
77 1.0 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.835 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

Instrument :

MSVOA_U

ClientSampleId :

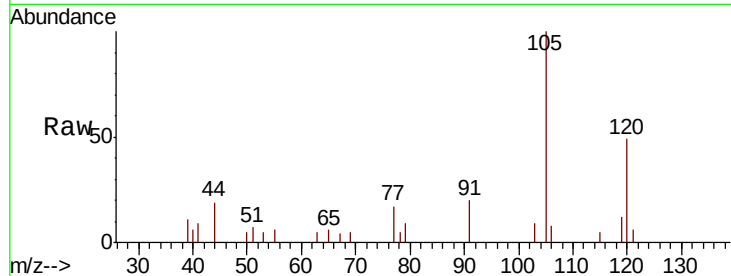
RAV-GT-103-TRAFILER-EFFLUENT-

Tot Ion:105 Resp: 3773

Ion Ratio Lower Upper

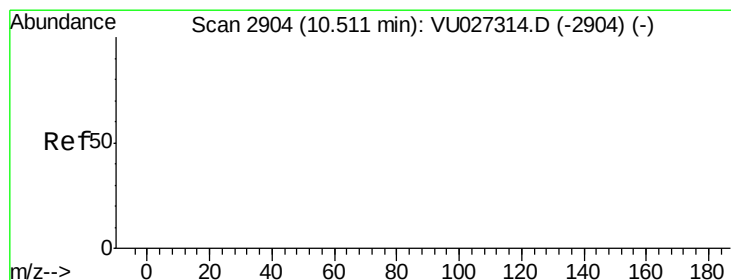
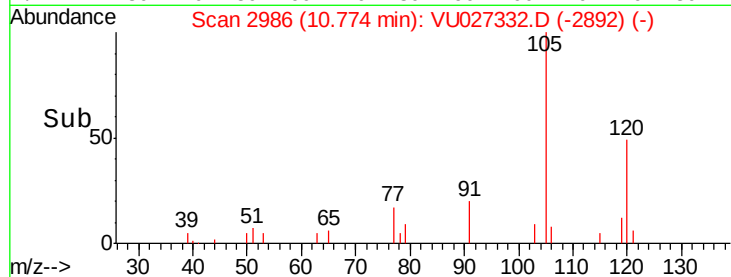
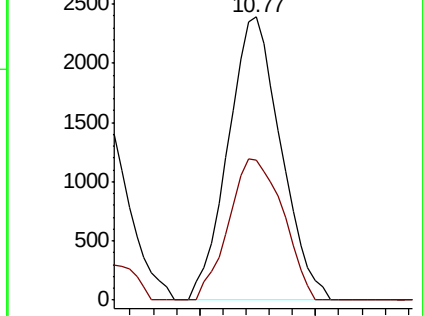
105 100

120 51.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 62.535 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

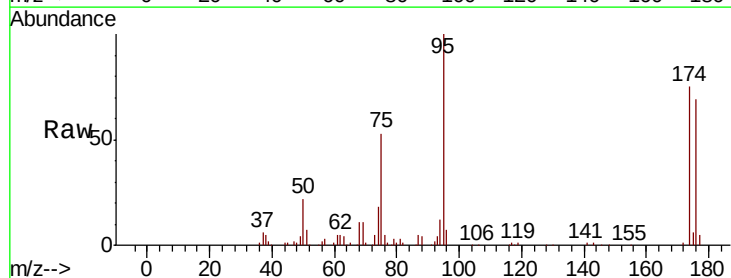
Tgt Ion: 75 Resp: 47360

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

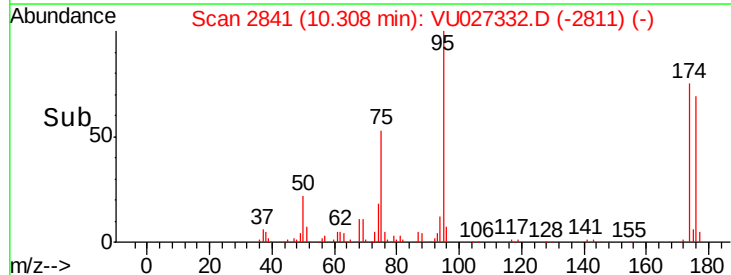
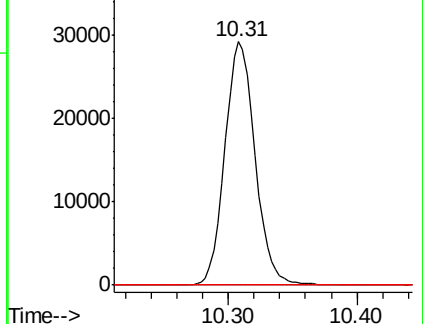
89 0.0 0.0 0.0

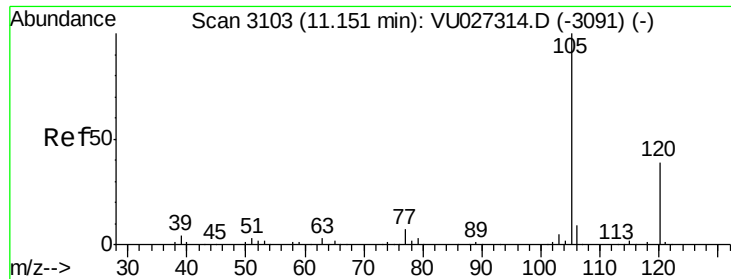


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#84

1,2,4-Trimethylbenzene

Concen: 1.370 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. -0.00 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

Instrument :

MSVOA_U

ClientSampleId :

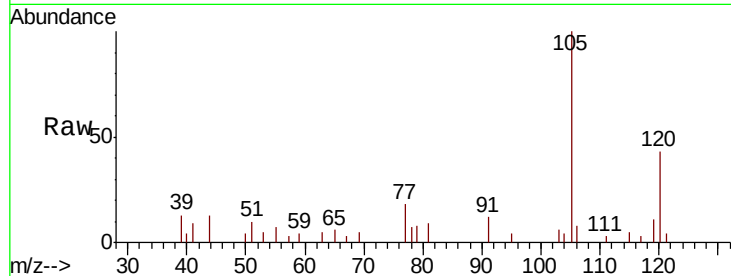
RAV-GT-103-TRAFILER-EFFLUENT-

Tot Ion:105 Resp: 6329

Ion Ratio Lower Upper

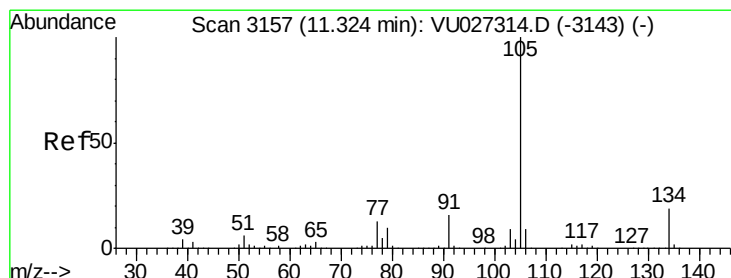
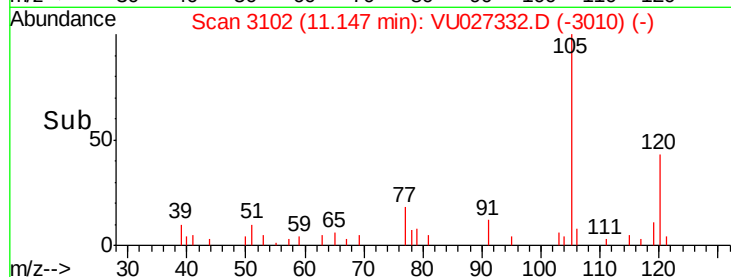
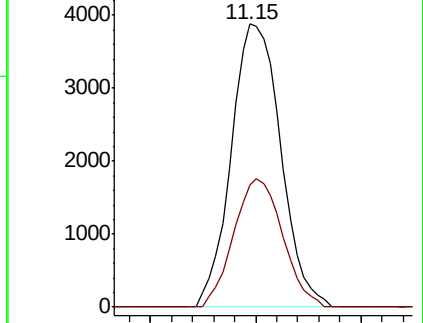
105 100

120 44.7 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 1.149 ug/l

RT: 11.15 min Scan# 3102

Delta R.T. -0.18 min

Lab File: VU027332.D

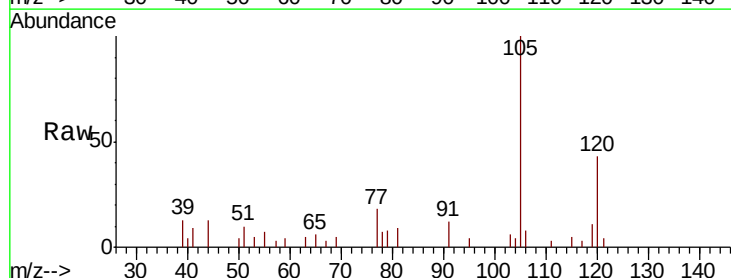
Acq: 01 Oct 2018 20:43

Tgt Ion:105 Resp: 6329

Ion Ratio Lower Upper

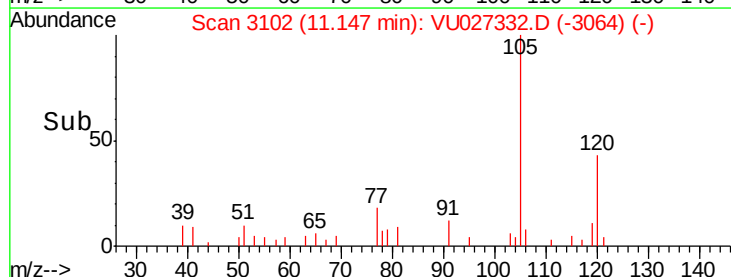
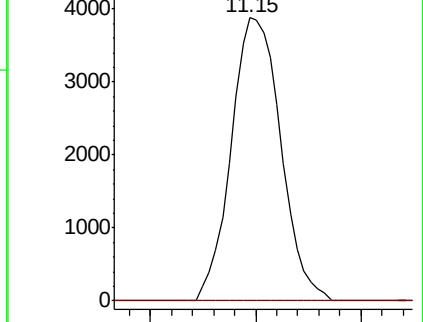
105 100

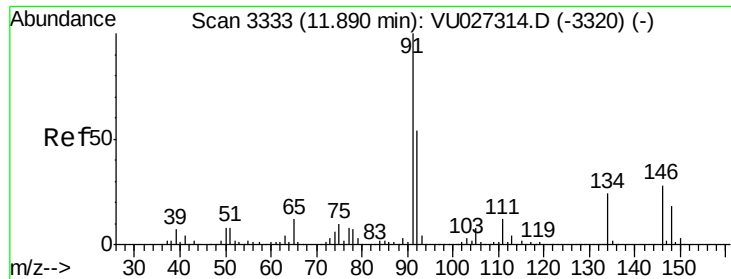
134 0.0 9.6 28.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#89

n-Butylbenzene

Concen: 2.101 ug/l

RT: 11.88 min Scan# 3331

Delta R.T. -0.01 min

Lab File: VU027332.D

Acq: 01 Oct 2018 20:43

Instrument :

MSVOA_U

ClientSampleId :

RAV-GT-103-TRAFILER-EFFLUENT-

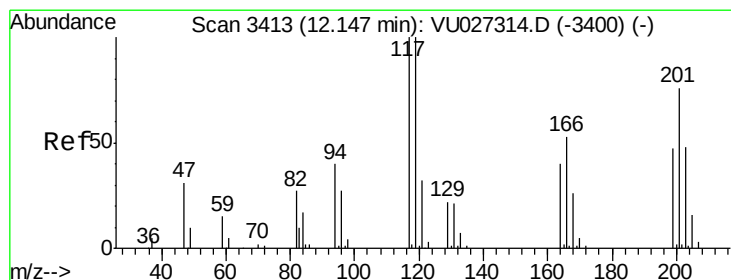
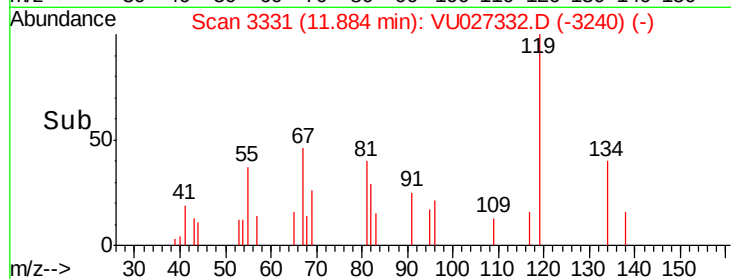
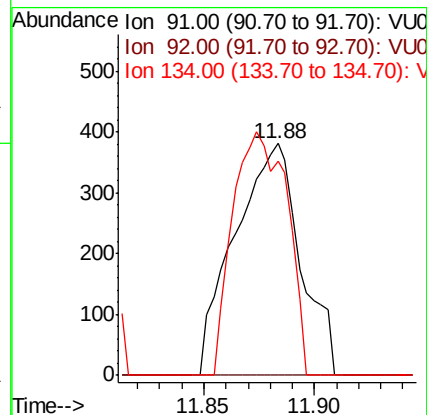
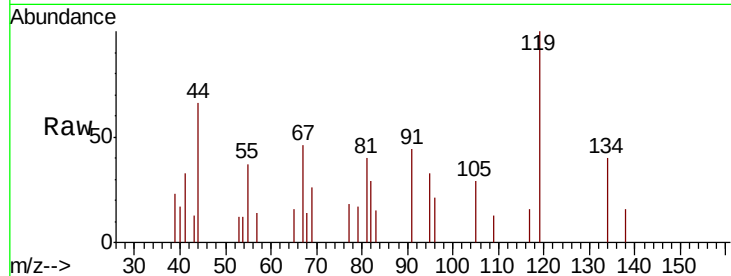
Tot Ion: 91 Resp: 787

Ion Ratio Lower Upper

91 100

92 0.0 27.0 81.0#

134 86.4 11.7 35.1#



#90

Hexachloroethane

Concen: 0.466 ug/l

RT: 12.25 min Scan# 3446

Delta R.T. 0.11 min

Lab File: VU027332.D

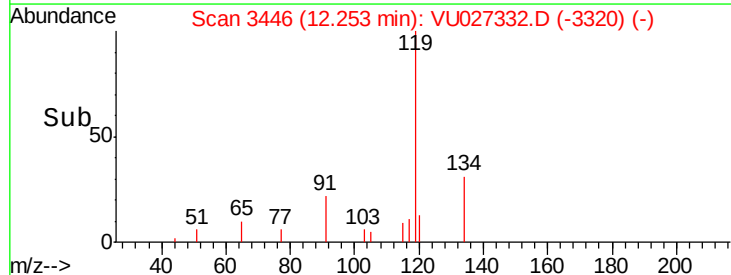
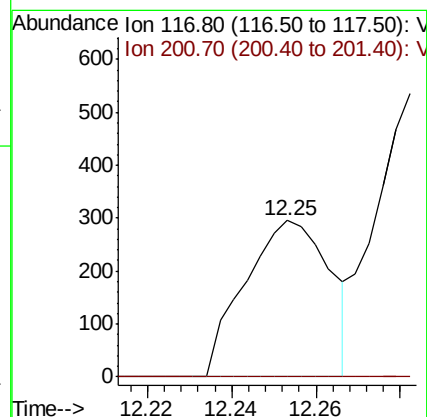
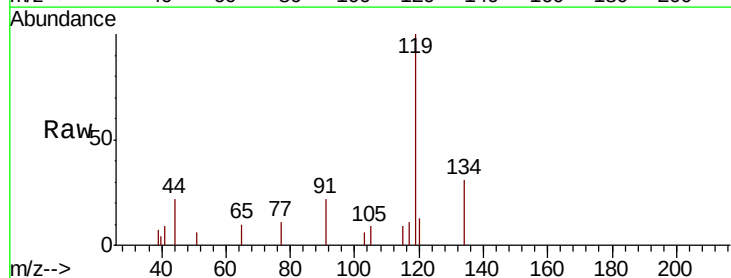
Acq: 01 Oct 2018 20:43

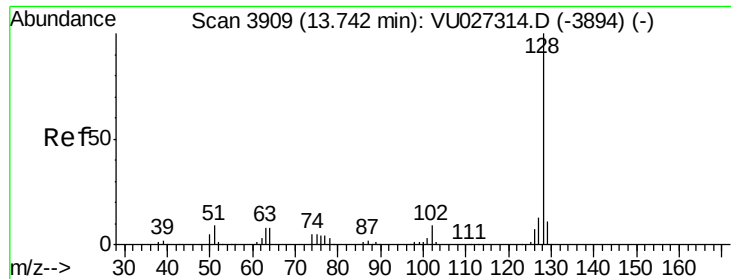
Tgt Ion: 117 Resp: 414

Ion Ratio Lower Upper

117 100

201 0.0 37.9 113.6#





#95
Naphthalene
Concen: 2.083 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. -0.00 min
Lab File: VU027332.D
Acq: 01 Oct 2018 20:43

Instrument :
MSVOA_U
ClientSampleId :
RAV-GT-103-TRAFILER-EFFLUENT-

Tot Ion:128 Resp: 2528
Ion Ratio Lower Upper
128 100
127 4.0 10.5 15.7#
129 0.0 8.6 12.8#

