

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121118\
 Data File : VU028564.D
 Acq On : 10 Dec 2018 20:24
 Operator : MD/SY
 Sample : J6325-06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D3-20181204

Quant Time: Dec 11 03:40:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	82802	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	153437	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	137517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	54214	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	71838	56.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.70%	
35) Dibromofluoromethane	4.88	113	51920	53.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.54%	
50) Toluene-d8	7.57	98	201791	52.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.66%	
62) 4-Bromofluorobenzene	10.30	95	65305	45.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.48%	

Target Compounds

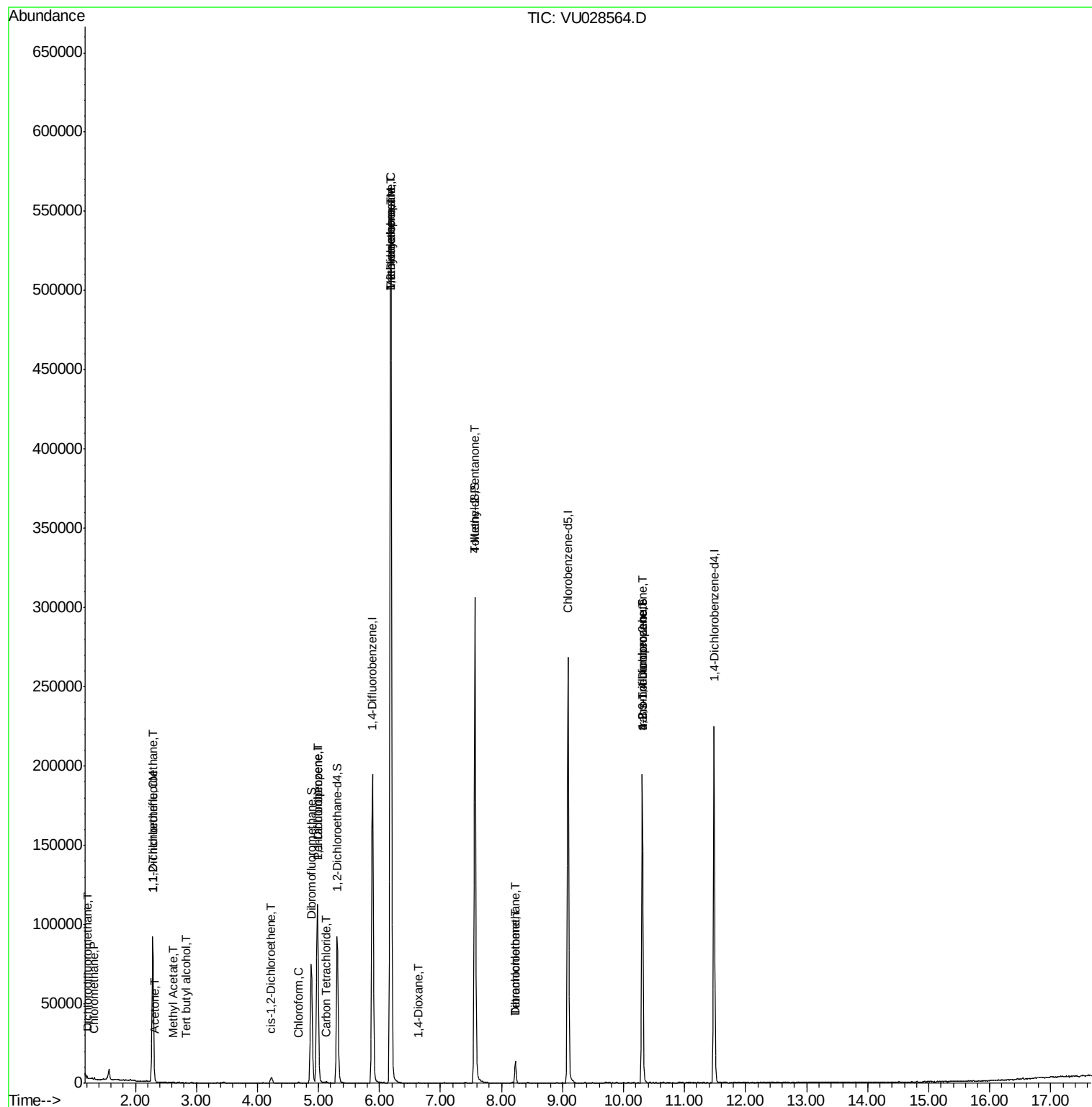
						Qvalue
2) Dichlorodifluoromethane	1.21	85	274	0.247	ug/l #	43
3) Chloromethane	1.33	50	1257	0.616	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	2.29	101	34628	37.373	ug/l	98
11) Tert butyl alcohol	2.83	59	69	0.245	ug/l #	73
12) 1,1-Dichloroethene	2.28	96	787	0.854	ug/l #	95
16) Acetone	2.33	43	418	0.507	ug/l #	44
18) Methyl Acetate	2.62	43	473	0.221	ug/l #	56
27) cis-1,2-Dichloroethene	4.22	96	1057	0.900	ug/l #	8
30) Chloroform	4.68	83	537	0.278	ug/l	87
31) Cyclohexane	4.98	56	2001	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7533	4.486	ug/l #	50
38) Carbon Tetrachloride	5.14	117	567	0.419	ug/l #	69
39) Methylcyclohexane	6.18	83	2668	1.302	ug/l #	1
44) Trichloroethene	6.19	130	181883	165.417	ug/l	97
45) 1,2-Dichloropropane	6.19	63	711	0.511	ug/l #	1
49) 1,4-Dioxane	6.64	88	44	1.632	ug/l #	19
51) 4-Methyl-2-Pentanone	7.57	43	1007	0.465	ug/l #	1
60) Dibromochloromethane	8.22	129	2812	2.497	ug/l #	10
64) Tetrachloroethene	8.23	164	3135	3.418	ug/l	94
76) 1,2,3-Trichloropropane	10.30	75	34015	24.571	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	34015	60.303	ug/l #	100

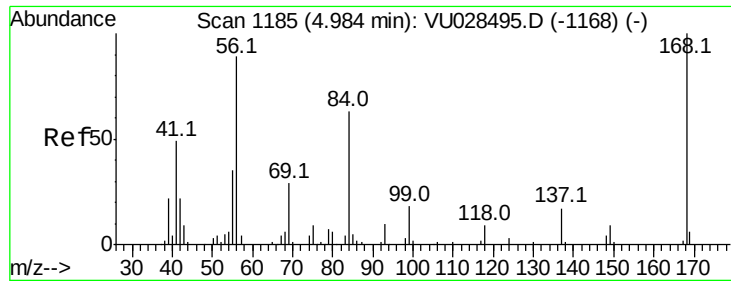
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration

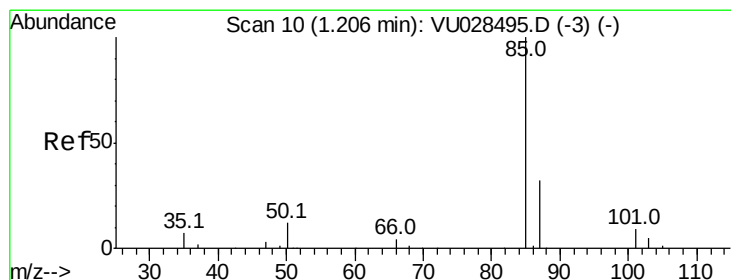
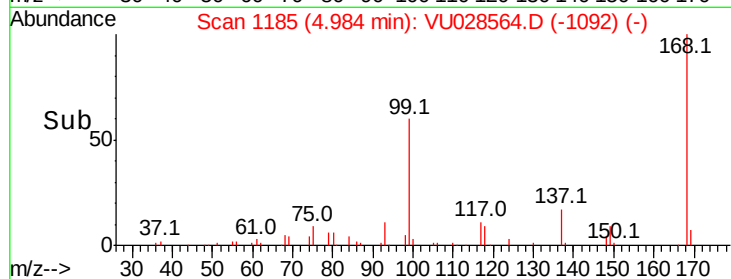
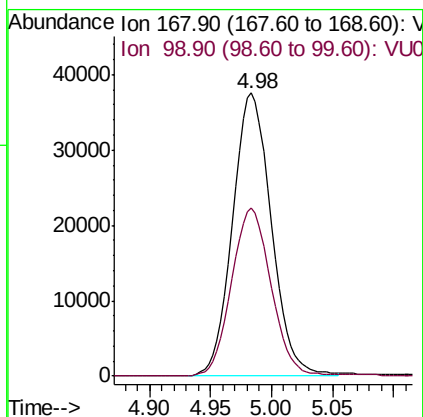
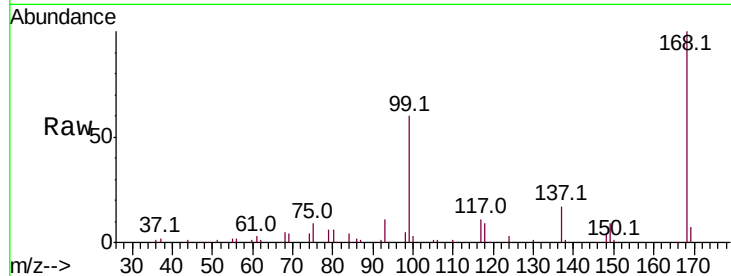




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.00 min
Lab File: VU028564.D
Acq: 10 Dec 2018 20:24

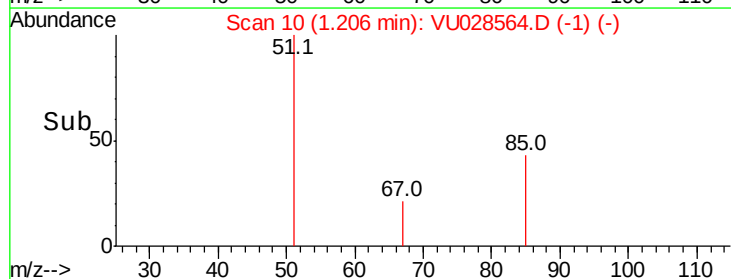
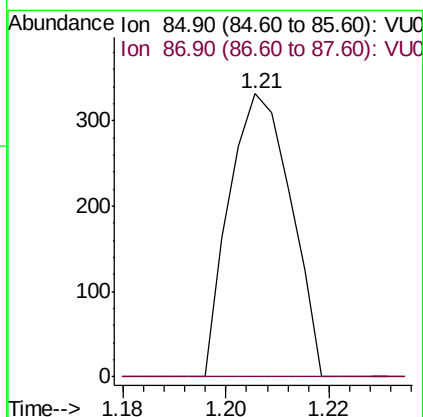
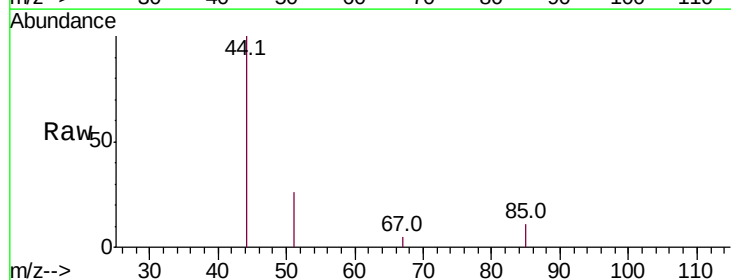
Instrument :
MSVOA_U
ClientSampleId :
RE-125D3-20181204

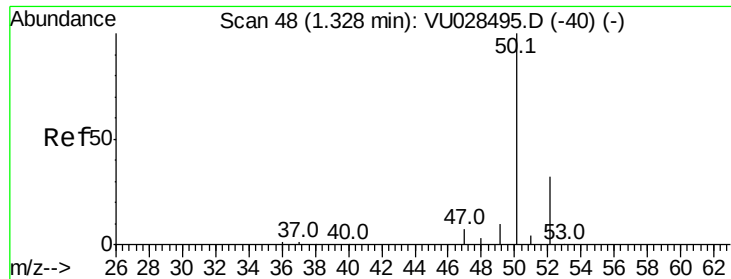
Tot Ion:168 Resp: 82802
Ion Ratio Lower Upper
168 100
99 59.3 46.6 69.8



#2
Dichlorodifluoromethane
Concen: 0.247 ug/l
RT: 1.21 min Scan# 10
Delta R.T. -0.00 min
Lab File: VU028564.D
Acq: 10 Dec 2018 20:24

Tgt Ion: 85 Resp: 274
Ion Ratio Lower Upper
85 100
87 0.0 15.9 47.6#





#3

Chloromethane

Concen: 0.616 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

Instrument :

MSVOA_U

ClientSampleId :

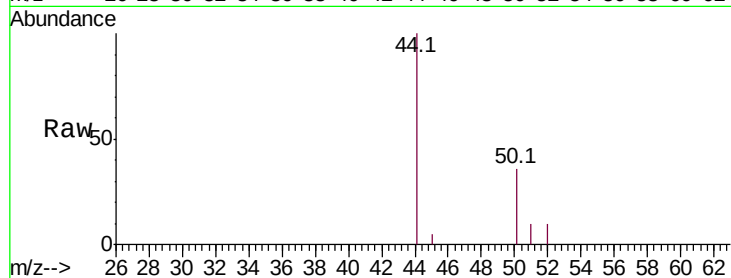
RE-125D3-20181204

Tot Ion: 50 Resp: 1257

Ion Ratio Lower Upper

50 100

52 27.0 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

800

600

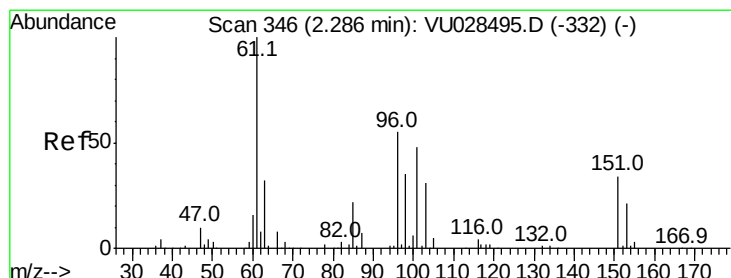
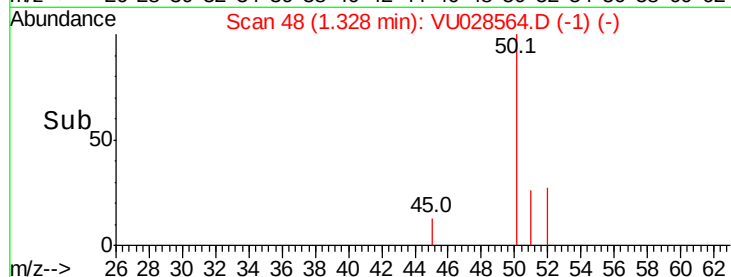
400

200

0

1.30 1.35 1.40

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 37.373 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

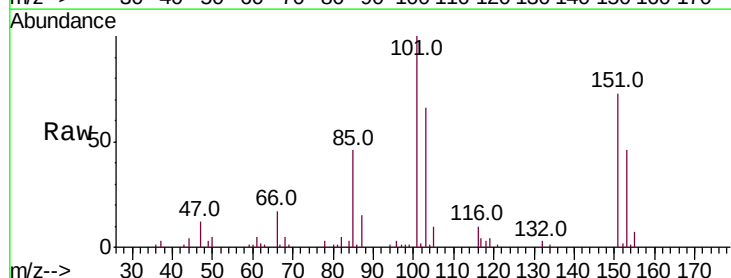
Tgt Ion:101 Resp: 34628

Ion Ratio Lower Upper

101 100

85 45.7 36.4 54.6

151 70.0 58.2 87.2



Abundance Ion 100.90 (100.60 to 101.60): VU028495.D (-332) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-332) (-)

Ion 150.80 (150.50 to 151.50): VU028495.D (-332) (-)

2.29

25000

20000

15000

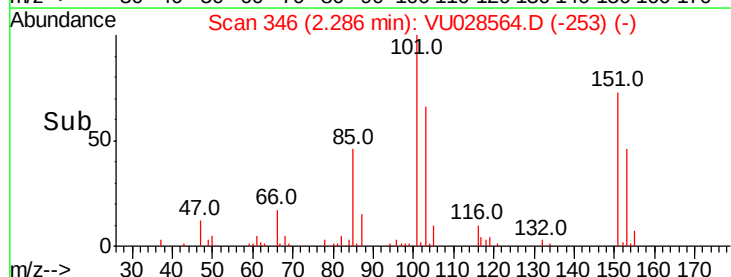
10000

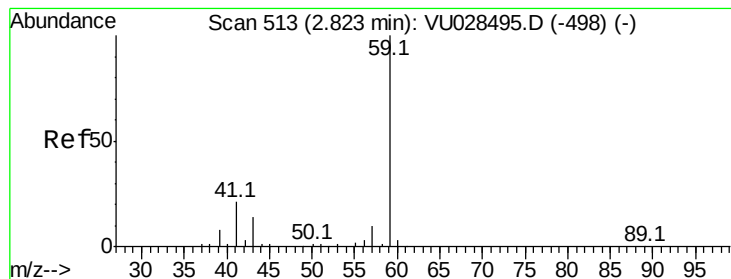
5000

0

2.20 2.25 2.30 2.35

Time-->



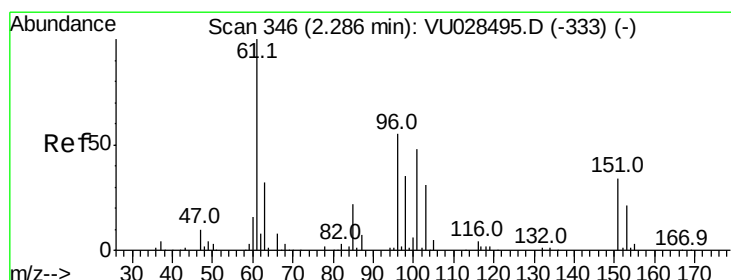
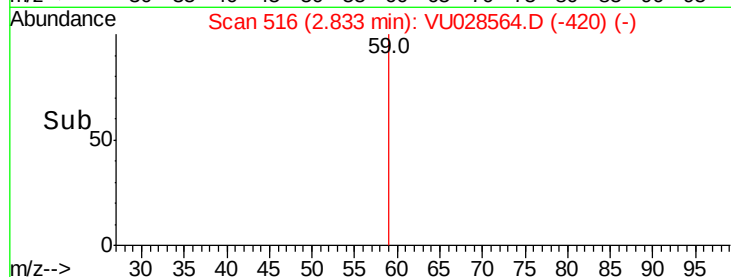
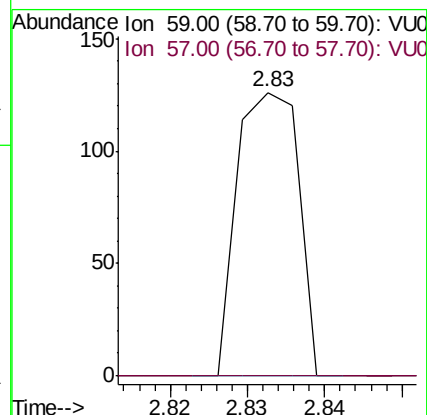
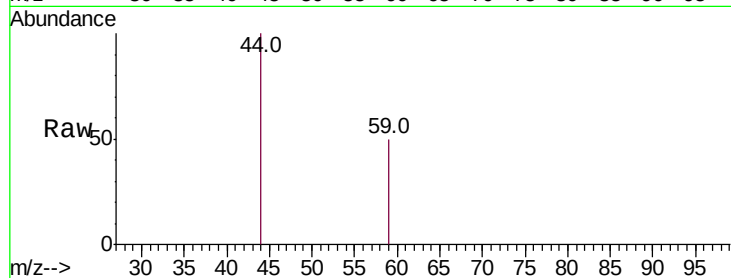


#11

Tert butyl alcohol
 Concen: 0.245 ug/l
 RT: 2.83 min Scan# 516
 Delta R.T. 0.01 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D3-20181204

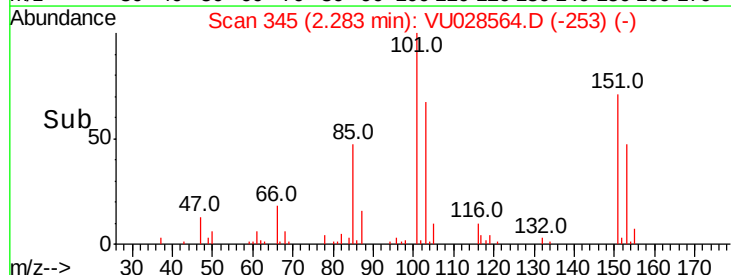
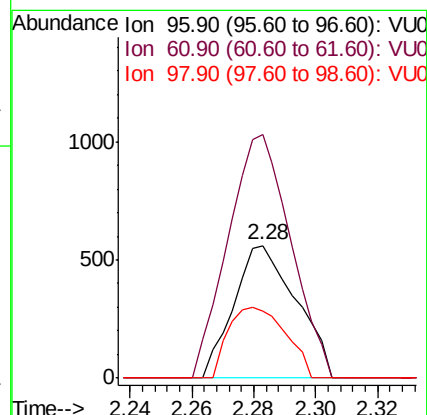
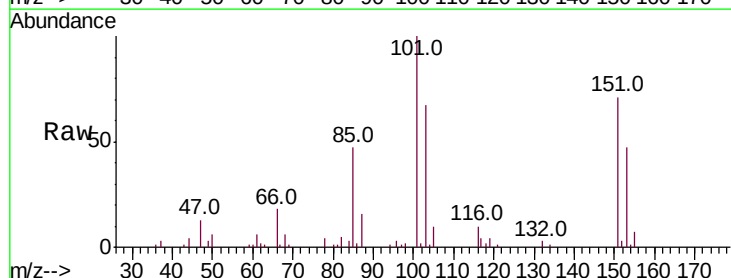
Tot Ion: 59 Resp: 69
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

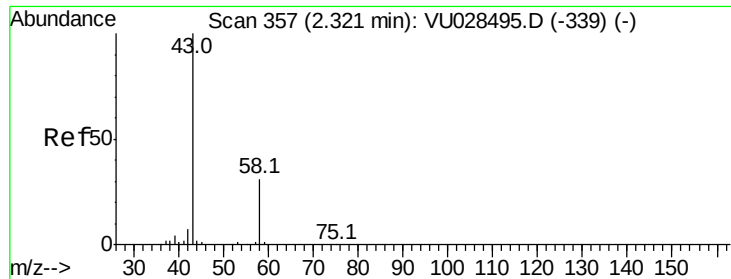


#12

1,1-Dichloroethene
 Concen: 0.854 ug/l
 RT: 2.28 min Scan# 345
 Delta R.T. -0.00 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

Tgt Ion: 96 Resp: 787
 Ion Ratio Lower Upper
 96 100
 61 183.3 146.4 219.6
 98 50.7 51.8 77.8#





#16

Acetone

Concen: 0.507 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.01 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

Instrument :

MSVOA_U

ClientSampleId :

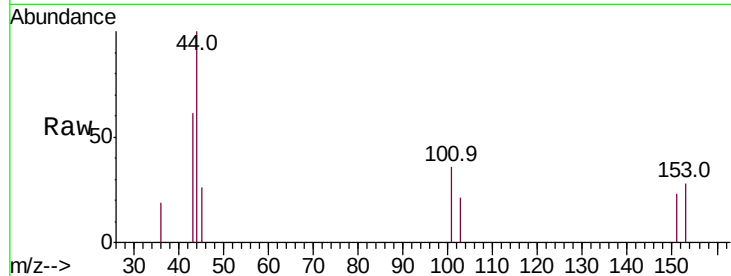
RE-125D3-20181204

Tot Ion: 43 Resp: 418

Ion Ratio Lower Upper

43 100

58 0.0 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.33

300

200

100

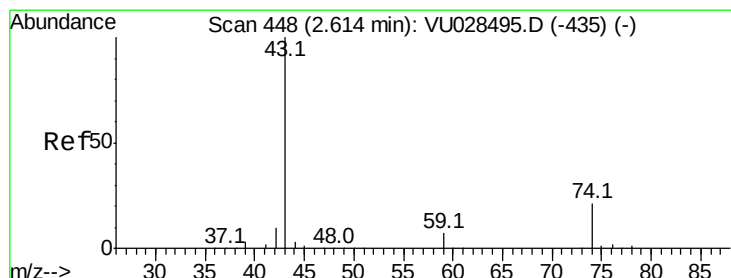
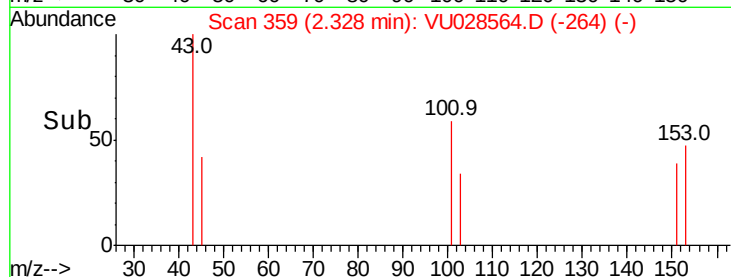
0

Time-->

2.30

2.32

2.34



#18

Methyl Acetate

Concen: 0.221 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU028564.D

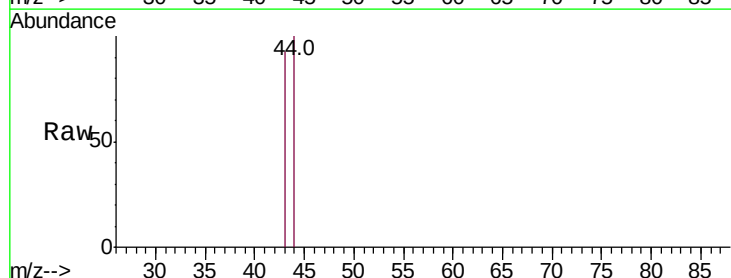
Acq: 10 Dec 2018 20:24

Tgt Ion: 43 Resp: 473

Ion Ratio Lower Upper

43 100

74 0.0 16.4 24.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

300

200

100

0

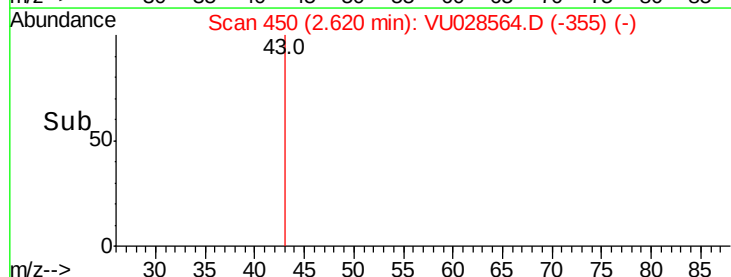
Time-->

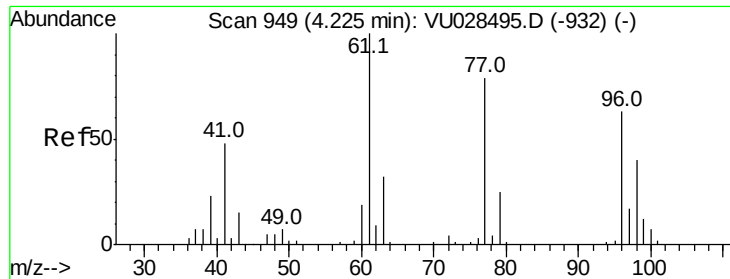
2.60

2.62

2.64

2.66



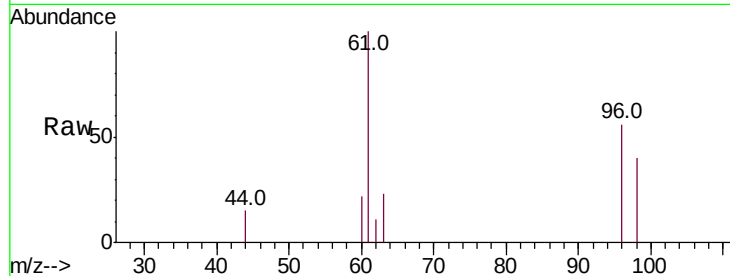


#27

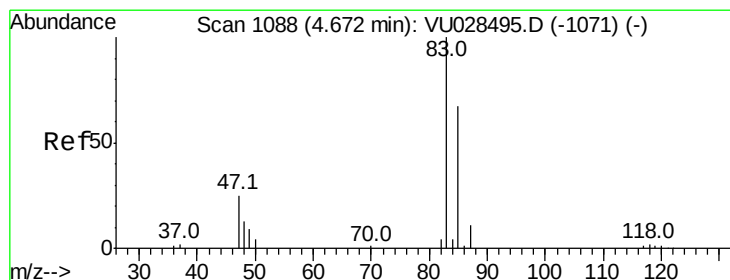
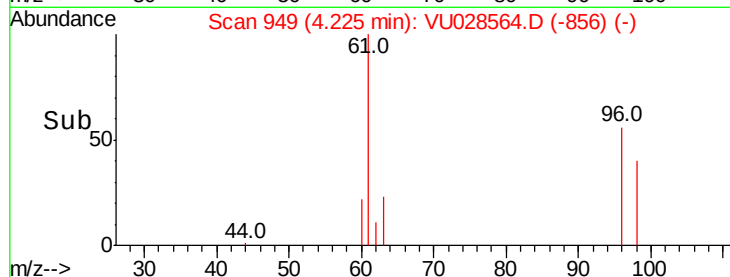
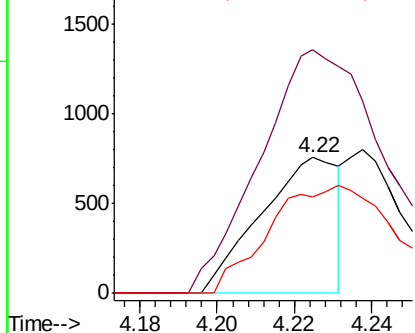
cis-1,2-Dichloroethene
 Concen: 0.900 ug/l
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D3-20181204

Tot Ion: 96 Resp: 1057
 Ion Ratio Lower Upper
 96 100
 61 294.7 0.0 332.4
 98 130.4 0.0 129.0#



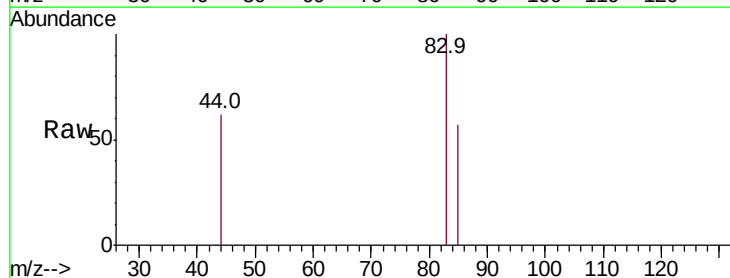
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



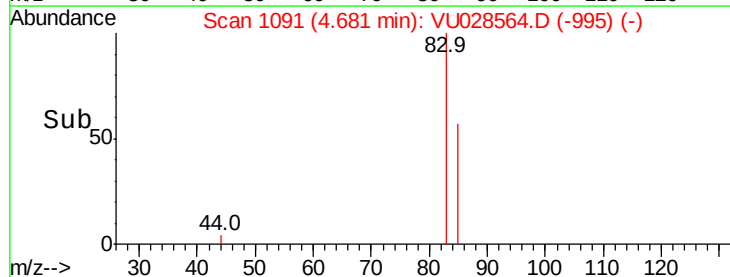
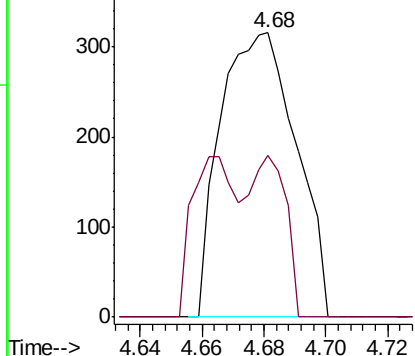
#30

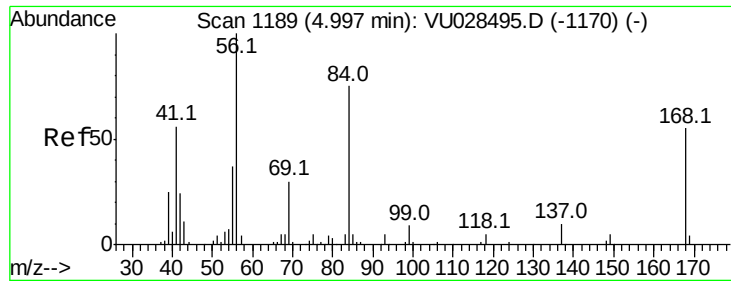
Chloroform
 Concen: 0.278 ug/l
 RT: 4.68 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

Tgt Ion: 83 Resp: 537
 Ion Ratio Lower Upper
 83 100
 85 56.6 53.6 80.4



Abundance Ion 82.90 (82.60 to 83.60): VU0
 Ion 84.90 (84.60 to 85.60): VU0

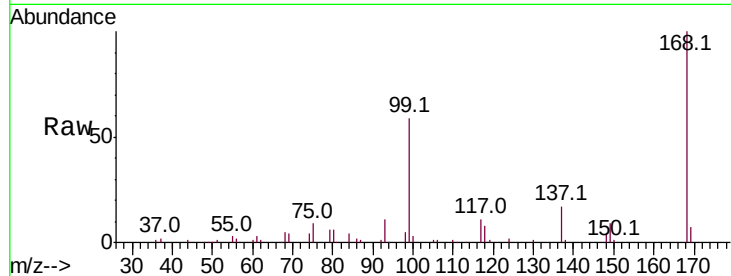




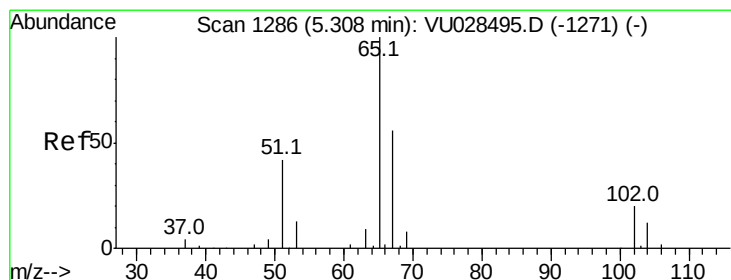
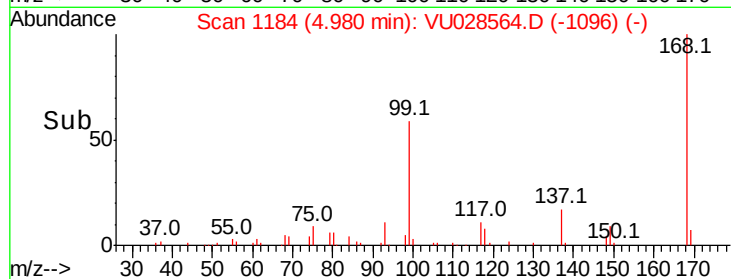
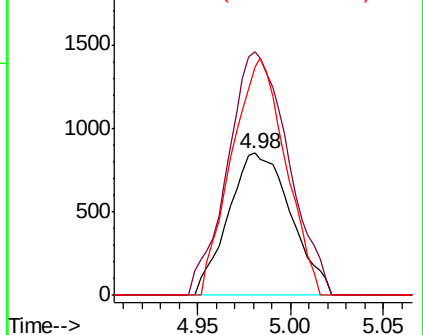
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.02 min
Lab File: VU028564.D
Acq: 10 Dec 2018 20:24

Instrument :
MSVOA_U
ClientSampleId :
RE-125D3-20181204

Tot Ion: 56 Resp: 2001
Ion Ratio Lower Upper
56 100
69 171.0 24.0 36.0#
84 160.7 59.7 89.5#

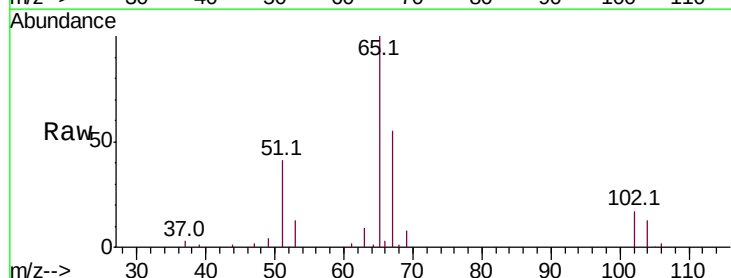


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

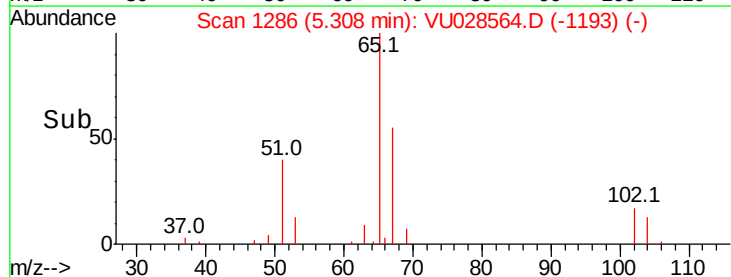
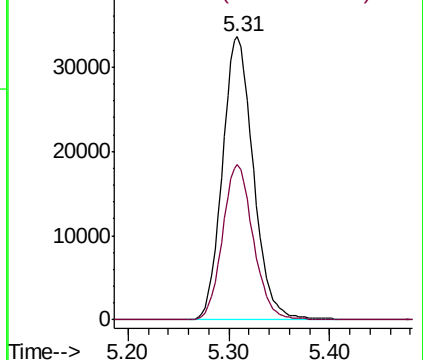


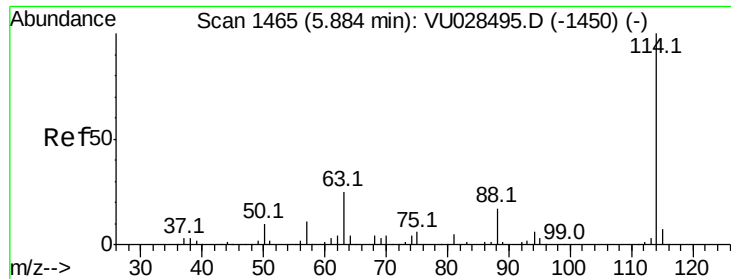
#33
1,2-Dichloroethane-d4
Concen: 56.851 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028564.D
Acq: 10 Dec 2018 20:24

Tgt Ion: 65 Resp: 71838
Ion Ratio Lower Upper
65 100
67 54.3 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

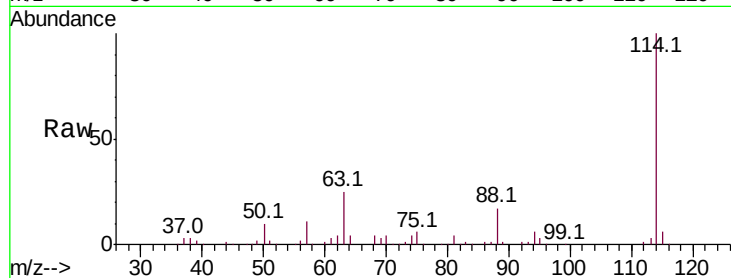




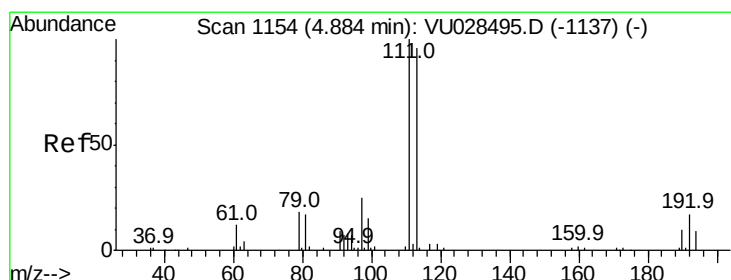
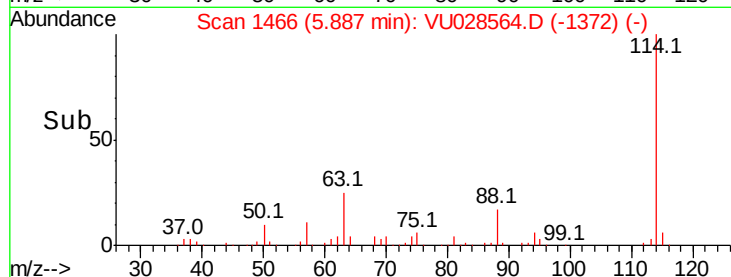
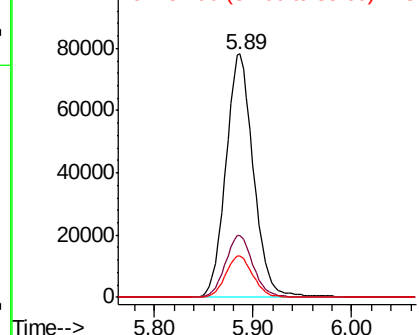
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D3-20181204

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.3	0.0	49.2
88	16.9	0.0	33.4

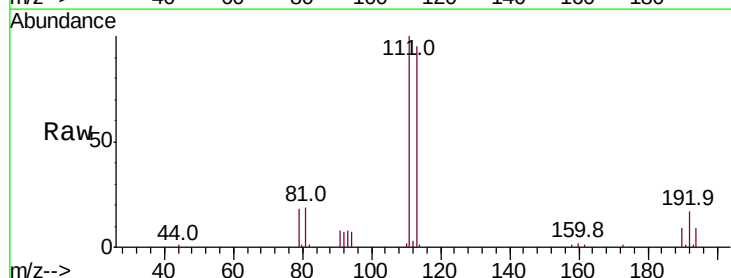


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

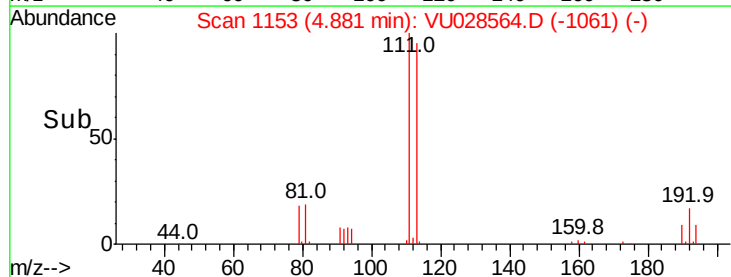
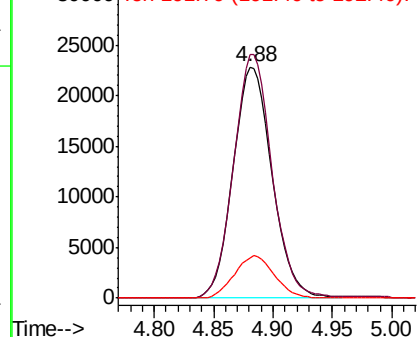


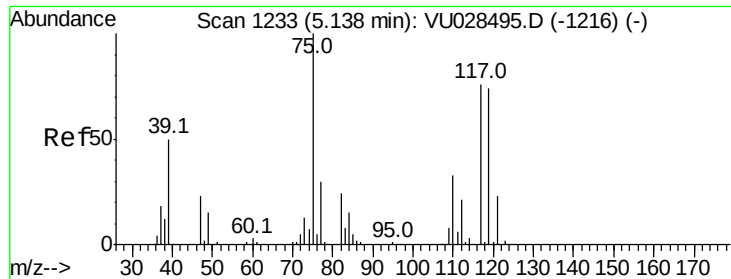
#35
 Dibromofluoromethane
 Concen: 53.770 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	83.4	125.0
192	18.6	14.8	22.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

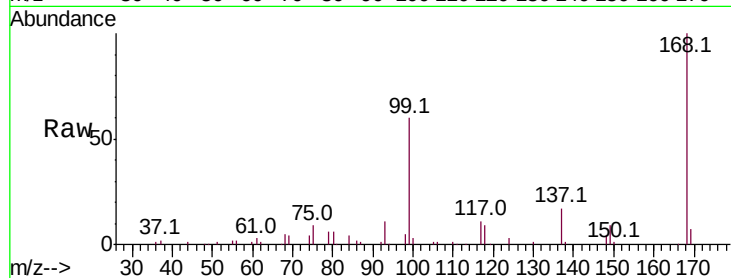




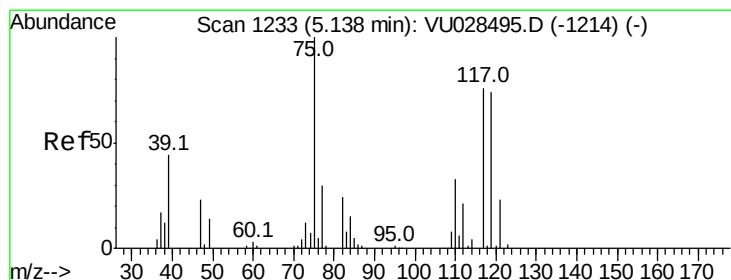
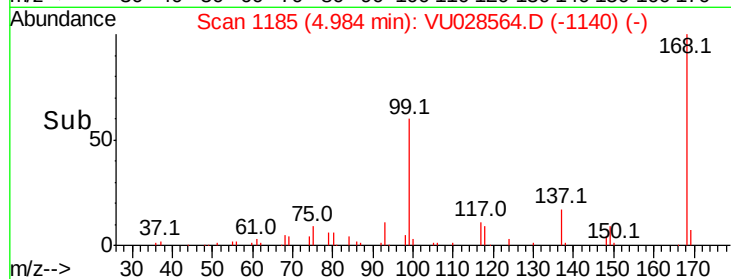
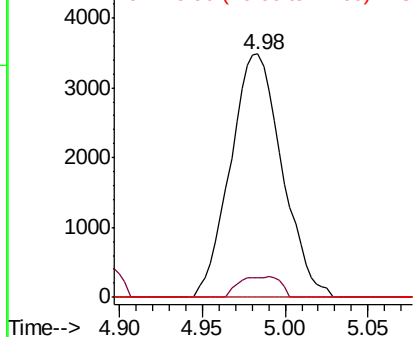
#36
 1,1-Dichloropropene
 Concen: 4.486 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D3-20181204

Tot Ion	Ratio	Lower	Upper
75	100		
110	6.9	16.1	48.2#
77	0.0	24.5	36.7#

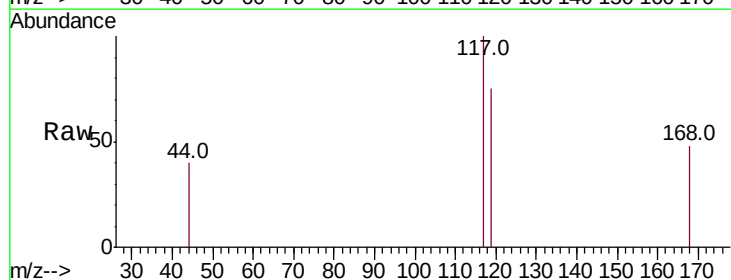


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

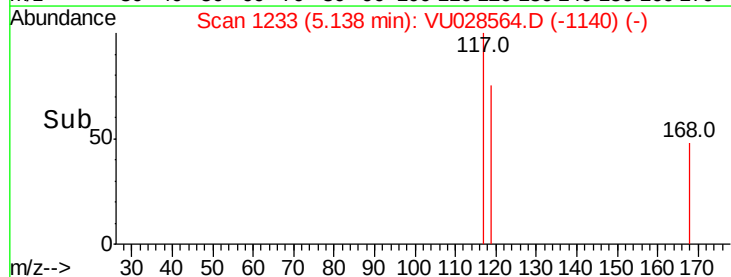
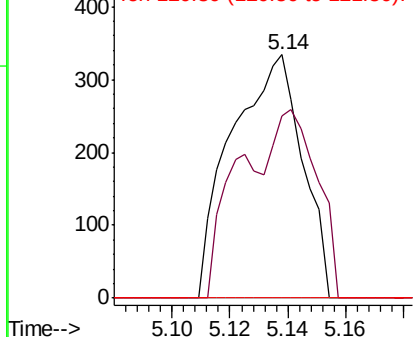


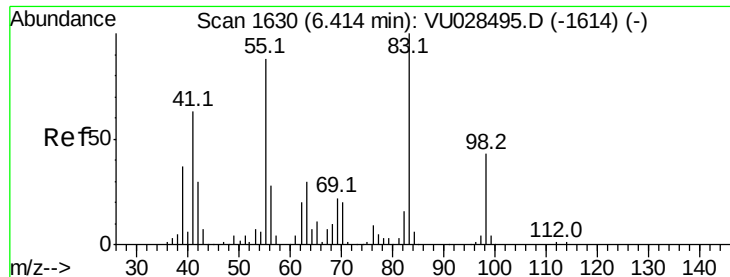
#38
 Carbon Tetrachloride
 Concen: 0.419 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. -0.00 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	74.9	77.6	116.4#
121	0.0	24.6	36.8#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 1.302 ug/l

RT: 6.18 min Scan# 1558

Delta R.T. -0.23 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

Instrument :

MSVOA_U

ClientSampleId :

RE-125D3-20181204

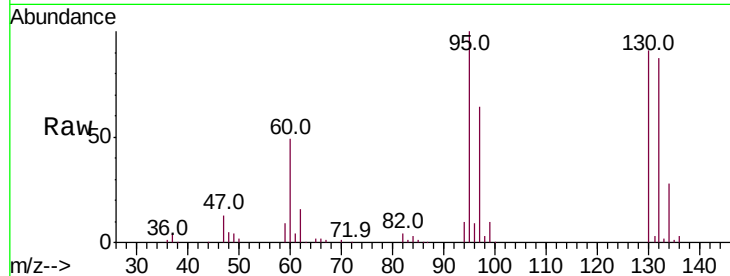
Tot Ion: 83 Resp: 2668

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

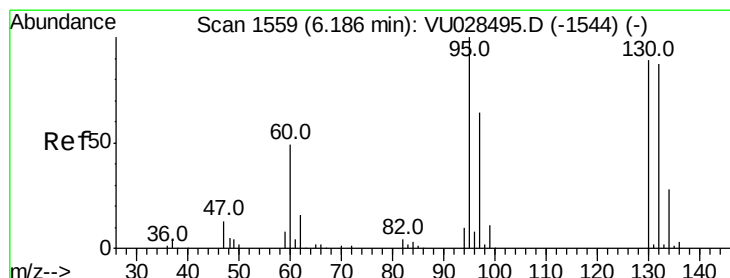
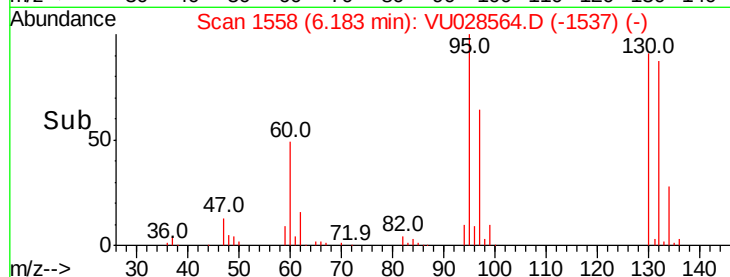
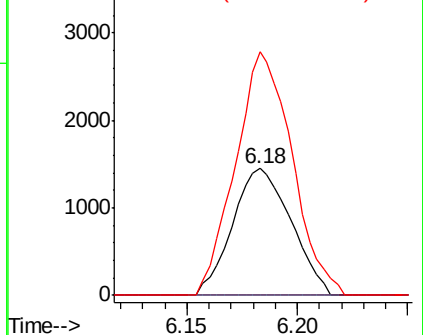
98 192.4 34.2 51.4#



Abundance Ion 83.00 (82.70 to 83.70): VU028495.D (-1614) (-)

Ion 55.00 (54.70 to 55.70): VU028495.D (-1614) (-)

Ion 98.00 (97.70 to 98.70): VU028495.D (-1614) (-)



#44

Trichloroethene

Concen: 165.417 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028564.D

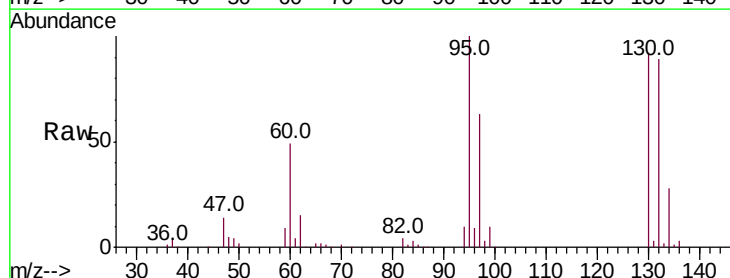
Acq: 10 Dec 2018 20:24

Tgt Ion:130 Resp: 181883

Ion Ratio Lower Upper

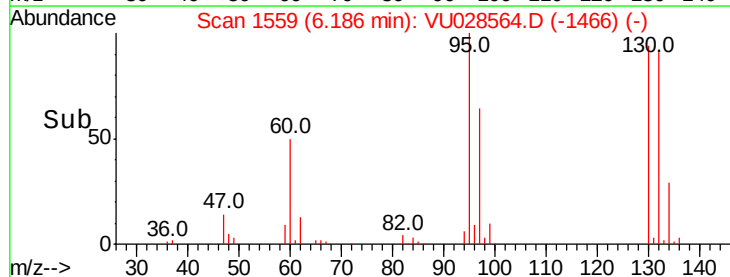
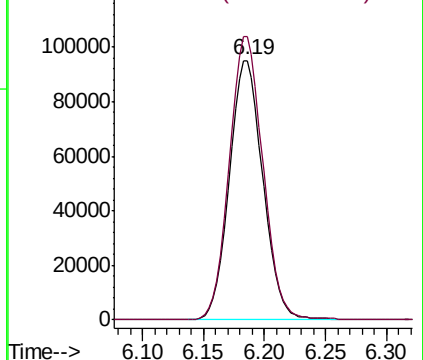
130 100

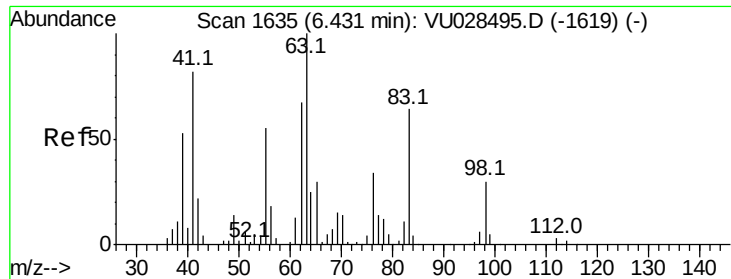
95 109.2 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): VU028495.D (-1544) (-)

Ion 94.90 (94.60 to 95.60): VU028495.D (-1544) (-)





#45

1,2-Dichloropropane

Concen: 0.511 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.24 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

Instrument :

MSVOA_U

ClientSampleId :

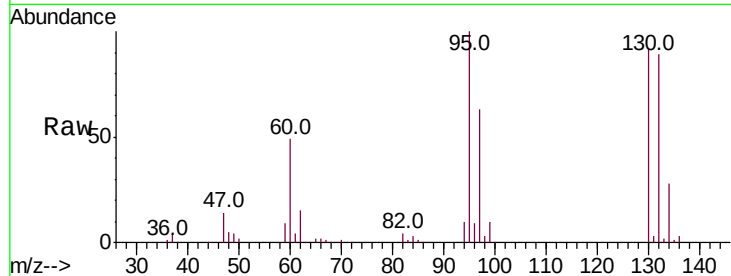
RE-125D3-20181204

Tot Ion: 63 Resp: 711

Ion Ratio Lower Upper

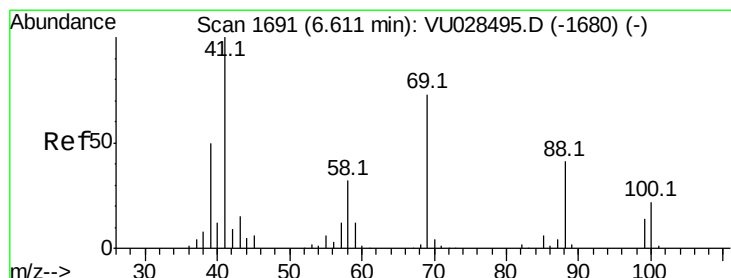
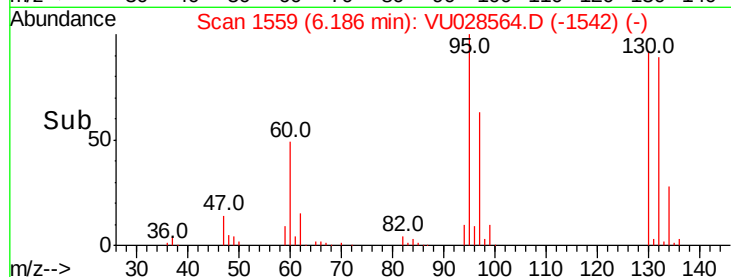
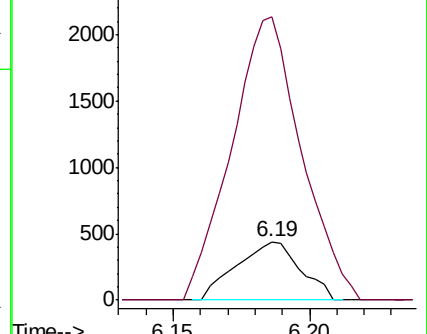
63 100

65 444.3 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#49

1,4-Dioxane

Concen: 1.632 ug/l

RT: 6.64 min Scan# 1700

Delta R.T. 0.03 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

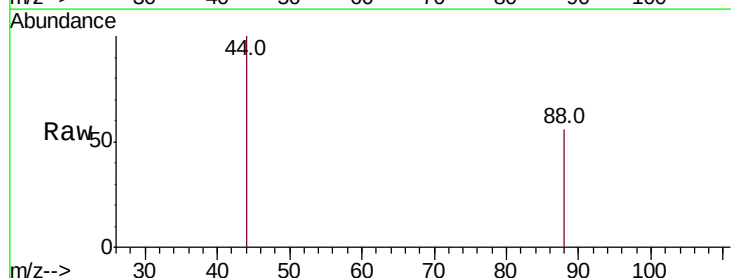
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 0.0 30.9 46.3#

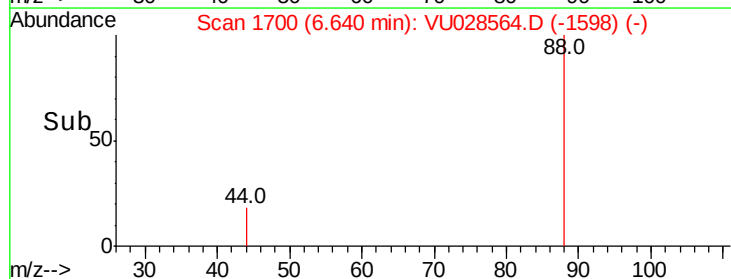
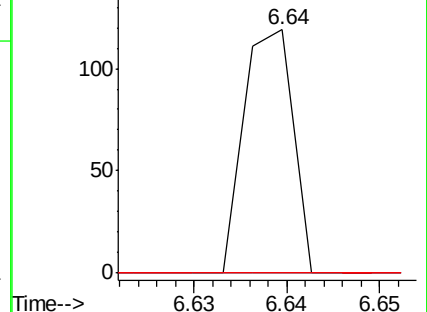
58 0.0 62.4 93.6#

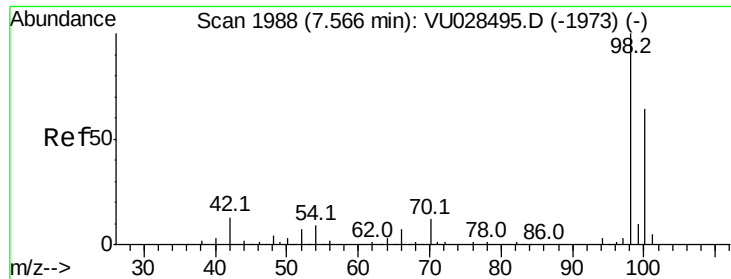


Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#50

Toluene-d8

Concen: 52.829 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

Instrument :

MSVOA_U

ClientSampleId :

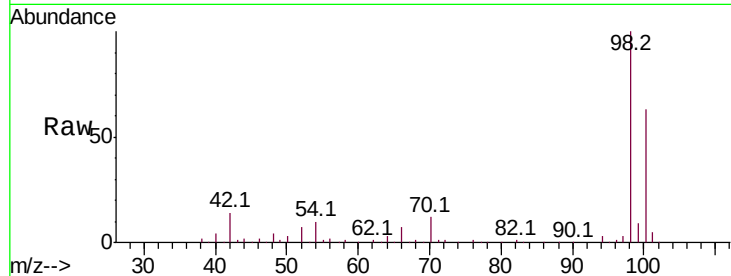
RE-125D3-20181204

Tot Ion: 98 Resp: 201791

Ion Ratio Lower Upper

98 100

100 62.8 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)

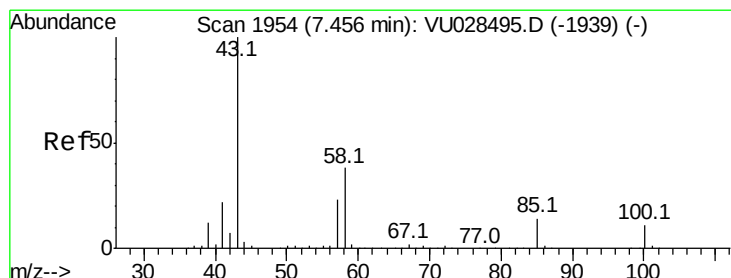
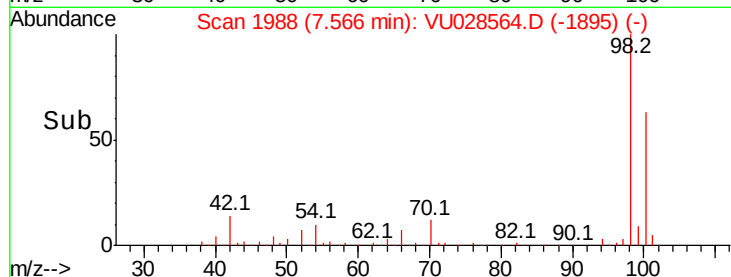
7.57

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.465 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VU028564.D

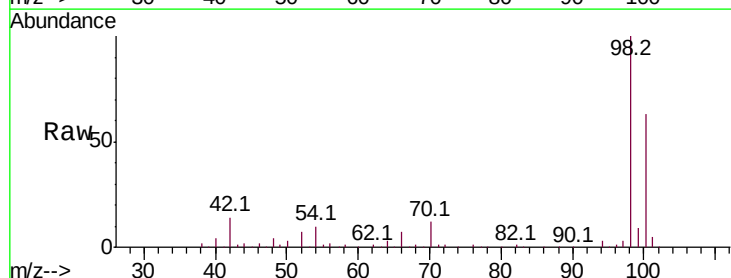
Acq: 10 Dec 2018 20:24

Tgt Ion: 43 Resp: 1007

Ion Ratio Lower Upper

43 100

58 179.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)

7.57

1200

1000

800

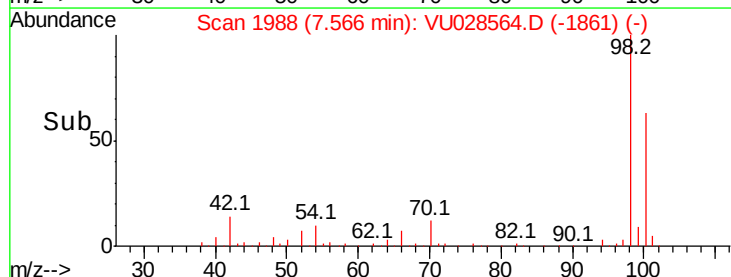
600

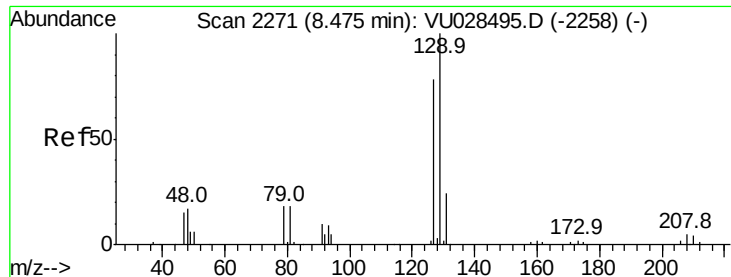
400

200

0

Time-->





#60

Dibromochloromethane

Concen: 2.497 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

Instrument :

MSVOA_U

ClientSampleId :

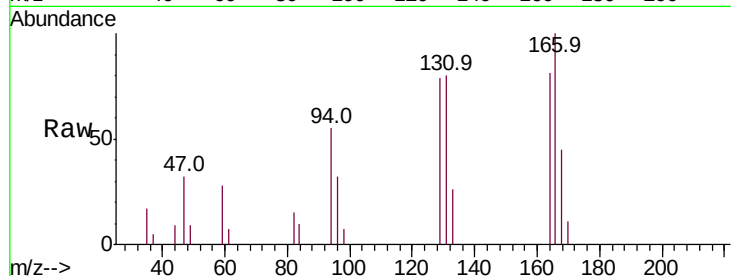
RE-125D3-20181204

Tot Ion:129 Resp: 2812

Ion Ratio Lower Upper

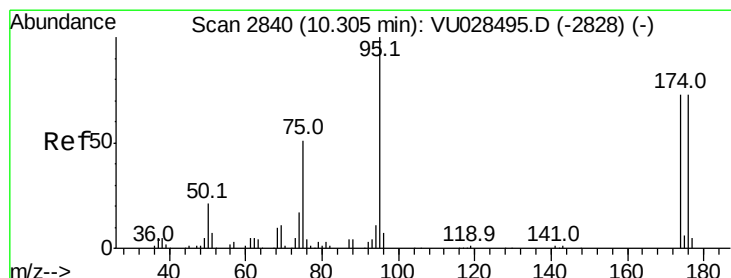
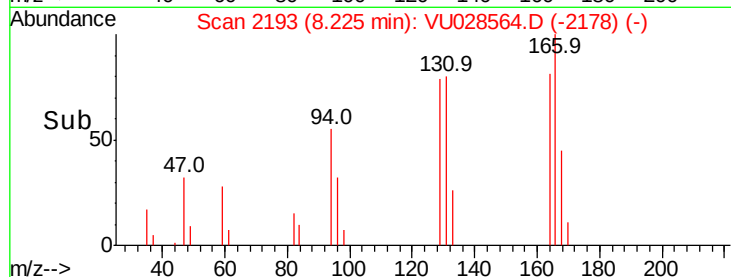
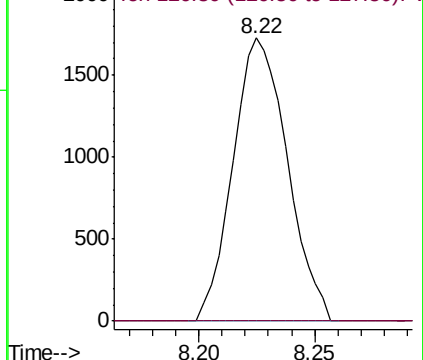
129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.743 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

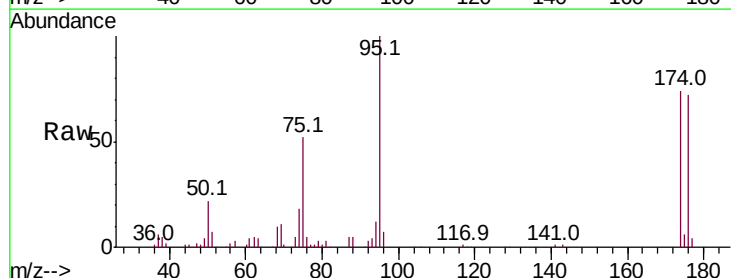
Tgt Ion: 95 Resp: 65305

Ion Ratio Lower Upper

95 100

174 75.7 0.0 150.4

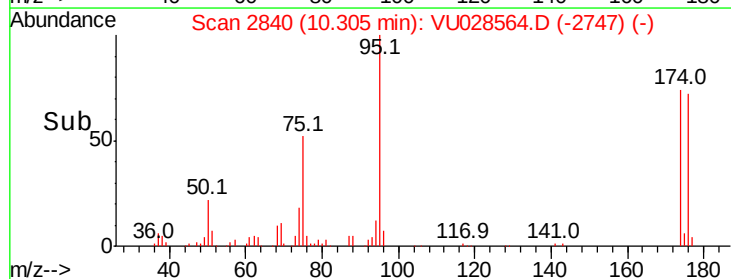
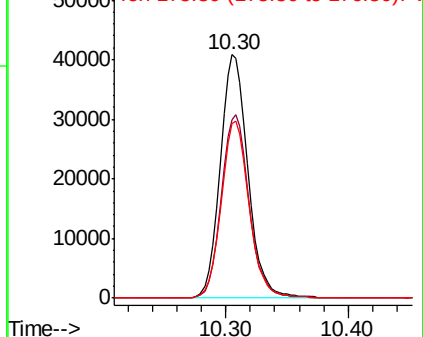
176 73.0 0.0 145.2

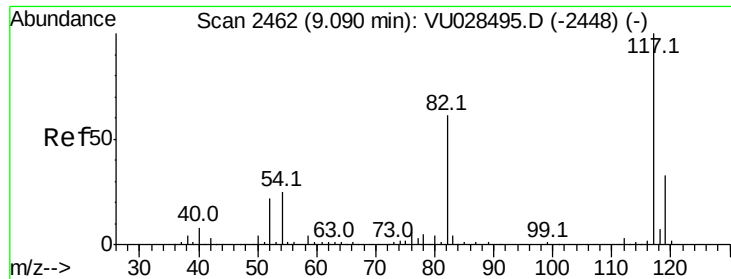


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

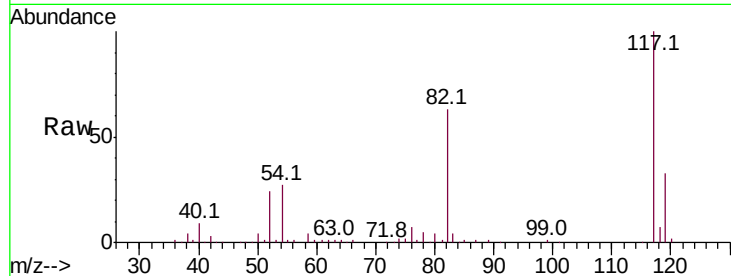




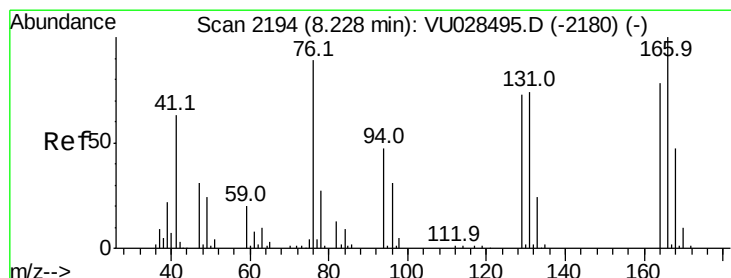
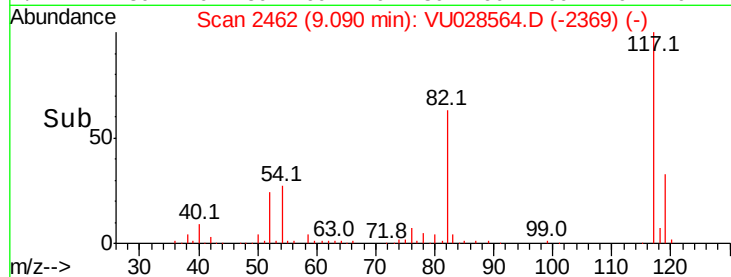
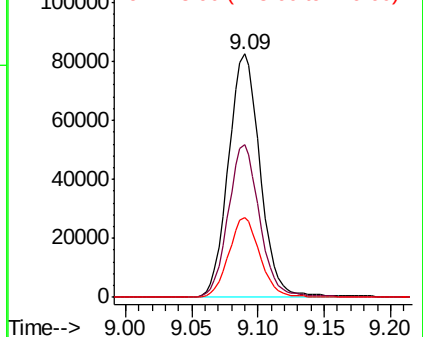
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028564.D
Acq: 10 Dec 2018 20:24

Instrument :
MSVOA_U
ClientSampleId :
RE-125D3-20181204

Tot Ion:117 Resp: 137517
Ion Ratio Lower Upper
117 100
82 62.9 48.9 73.3
119 32.8 26.2 39.4

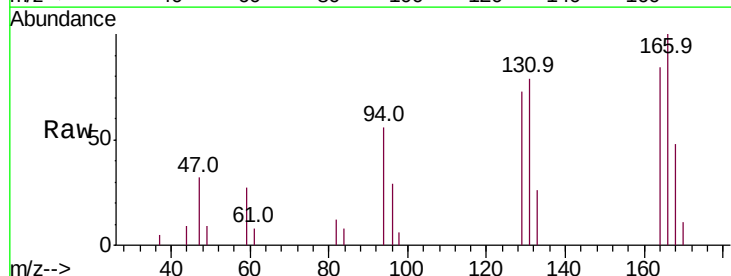


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

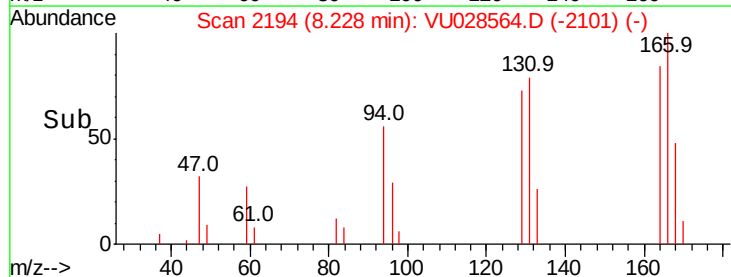
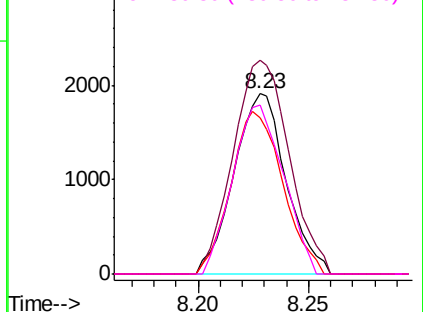


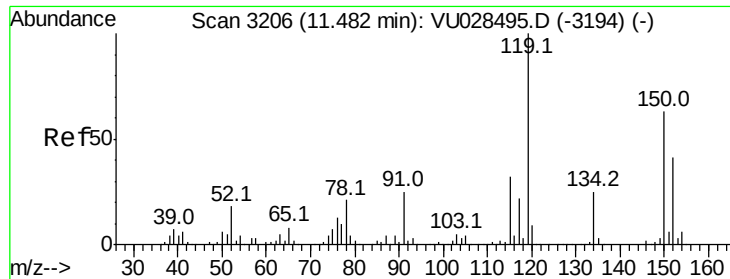
#64
Tetrachloroethene
Concen: 3.418 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028564.D
Acq: 10 Dec 2018 20:24

Tgt Ion:164 Resp: 3135
Ion Ratio Lower Upper
164 100
166 118.5 101.9 152.9
129 86.4 74.9 112.3
131 93.6 75.4 113.0



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

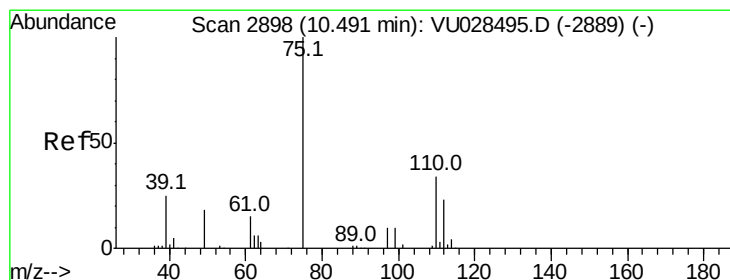
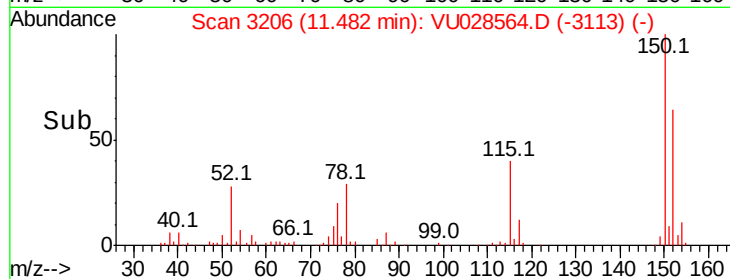
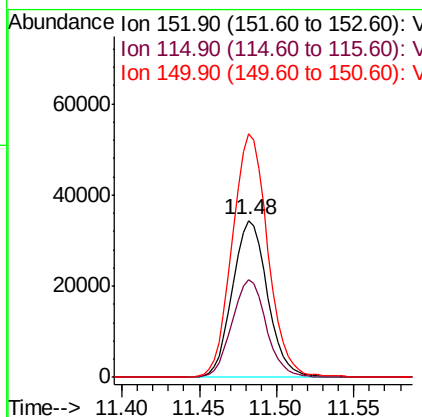
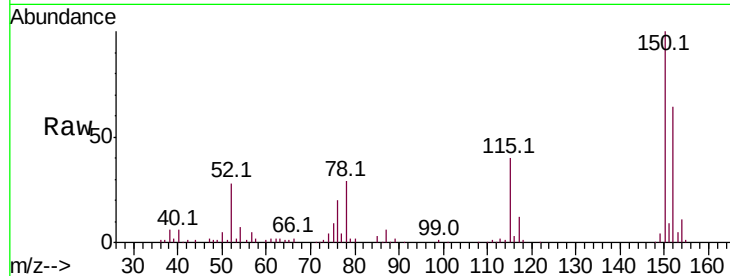




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.48 min Scan# 3206
 Delta R.T. -0.00 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

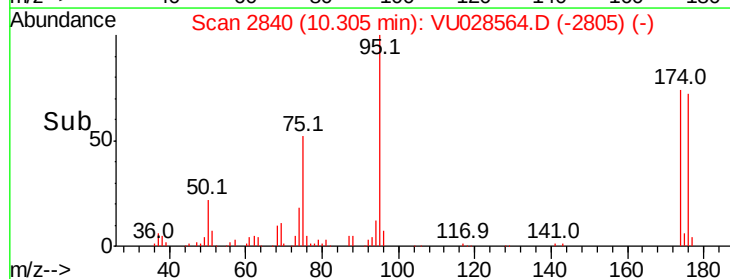
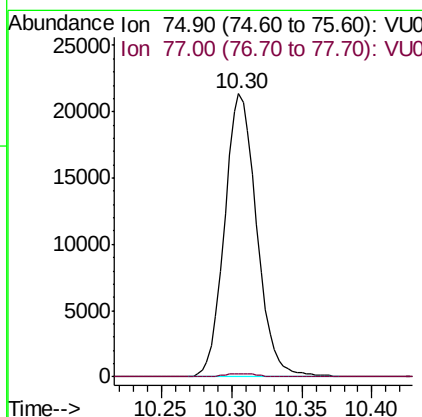
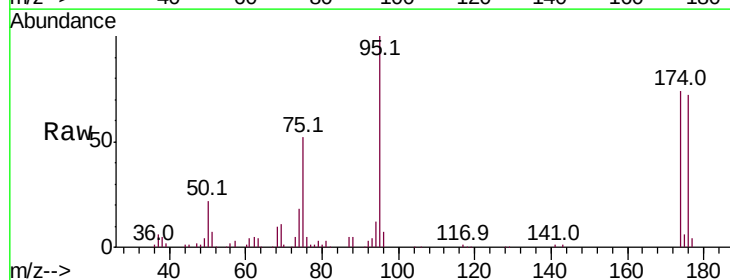
Instrument :
 MSVOA_U
 ClientSampleId :
 RE-125D3-20181204

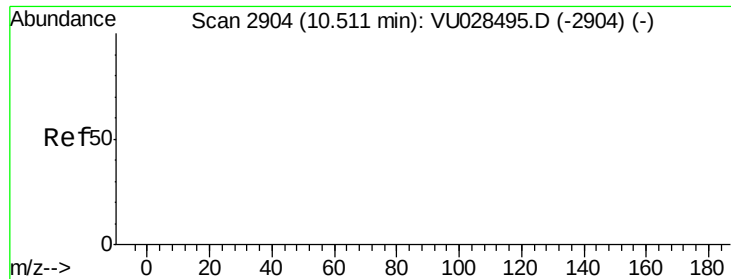
Tot Ion:152 Resp: 54214
 Ion Ratio Lower Upper
 152 100
 115 60.7 42.7 128.1
 150 157.5 0.0 346.0



#76
 1,2,3-Trichloropropane
 Concen: 24.571 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028564.D
 Acq: 10 Dec 2018 20:24

Tgt Ion: 75 Resp: 34015
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.8 62.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.303 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028564.D

Acq: 10 Dec 2018 20:24

Instrument :

MSVOA_U

ClientSampleId :

RE-125D3-20181204

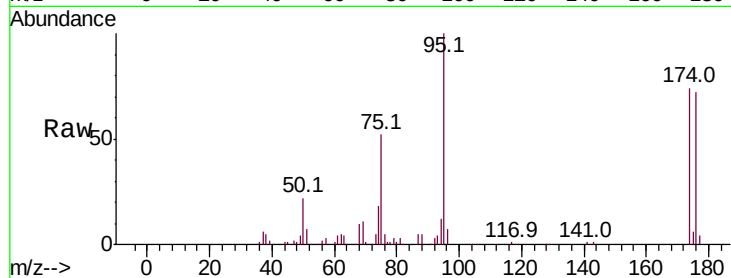
Tot Ion: 75 Resp: 34015

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

