

Data File : VU028940.D
Acq On : 24 Dec 2018 12:17
Operator : MD/SY
Sample : J6542-08
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
F9F71

Quant Time: Dec 25 00:06:37 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 25 00:02:36 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	243792	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	224092	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	103675	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	78772	40.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.60%
7) Chloroethane-d5	1.67	69	66223	43.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.74%
11) 1,1-Dichloroethene-d2	2.27	63	109565	33.33	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.66%
21) 2-Butanone-d5	4.17	46	132378	96.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.67%
24) Chloroform-d	4.65	84	146824	47.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.54%
26) 1,2-Dichloroethane-d4	5.31	65	91290	48.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.38%
32) Benzene-d6	5.34	84	321437	50.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.54%
36) 1,2-Dichloropropane-d6	6.33	67	106893	49.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.40%
41) Toluene-d8	7.56	98	298526	52.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.06%
43) trans-1,3-Dichloropropene-	7.85	79	49358	51.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.44%
47) 2-Hexanone-d5	8.31	63	113264	110.88	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.88%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	150925	50.58	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.16%
64) 1,2-Dichlorobenzene-d4	11.86	152	115427	55.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.10%

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	3442	1.273 ug/L #	69
8) Chloroethane	1.39	64	270643	198.555 ug/L #	56
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1056	0.668 ug/L #	20
12) 1,1-Dichloroethene	2.27	96	991	0.634 ug/L #	1
13) Acetone	2.32	43	3299	2.364 ug/L	79
14) Carbon disulfide	2.48	76	8745	1.602 ug/L	98
15) Methyl Acetate	2.63	43	1813	0.833 ug/L #	52
29) Cyclohexane	4.99	56	40675	13.638 ug/L	97
33) Benzene	5.39	78	35033	4.911 ug/L	100
35) Methylcyclohexane	6.41	83	60543	21.105 ug/L	98
39) cis-1,3-Dichloropropene	7.22	75	2729	0.960 ug/L #	43
42) Toluene	7.64	91	35751	4.943 ug/L	97
44) trans-1,3-Dichloropropene	8.10	75	4499	1.775 ug/L	85
45) 1,1,2-Trichloroethane	8.04	97	6785	3.979 ug/L #	18
48) 2-Hexanone	8.31	43	12346	5.612 ug/L #	60
52) Ethylbenzene	9.25	91	34317	4.416 ug/L	97
53) m,p-Xylene	9.38	106	48452	16.861 ug/L	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU122418\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Dec 25 00:02:36 2018
Response via : Initial Calibration

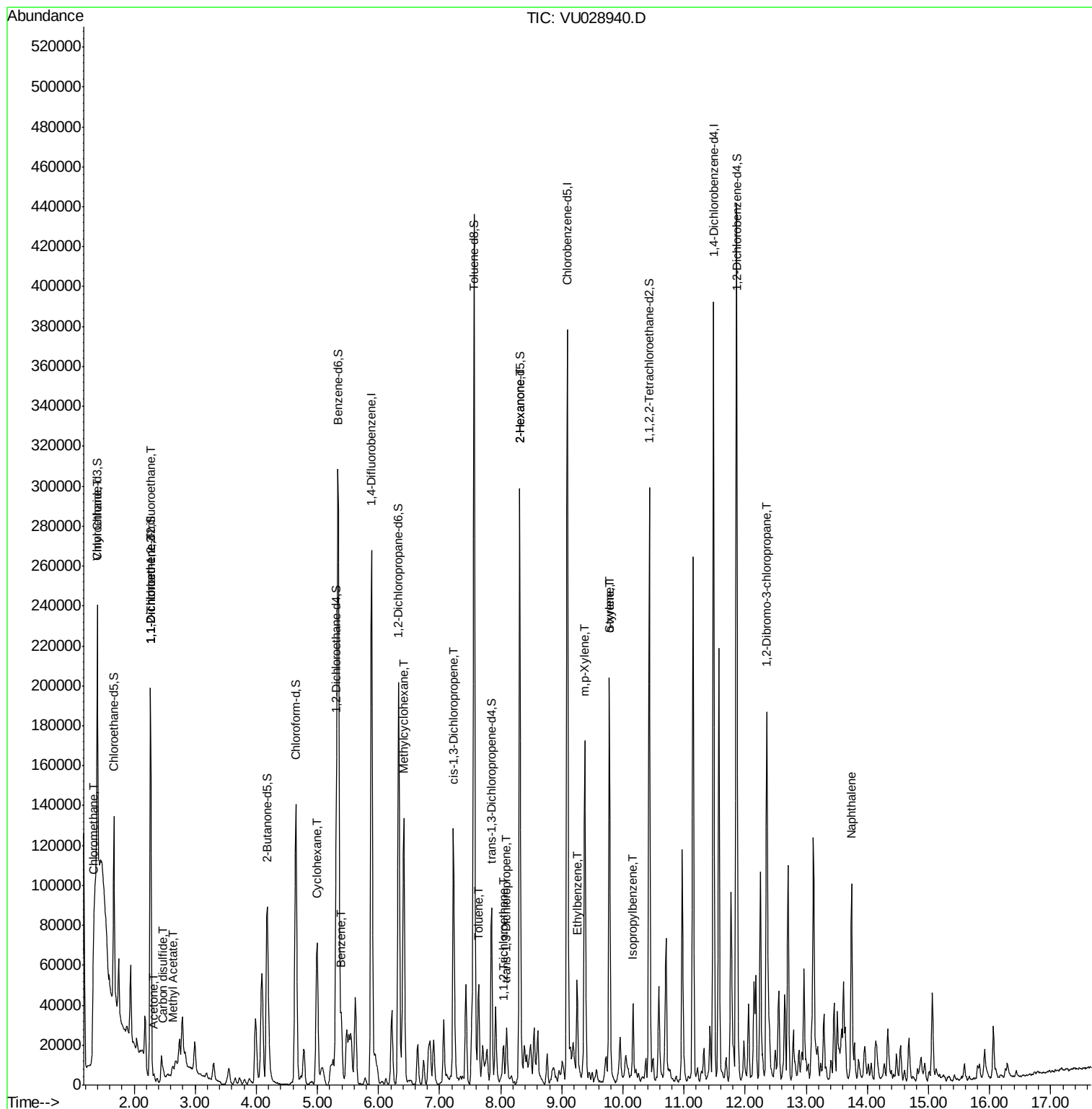
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.78	106	56667	19.676	ug/L	95
55) Styrene	9.78	104	2925	0.600	ug/L #	1
56) Isopropylbenzene	10.17	105	25070	3.431	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.35	75	1608	2.713	ug/L #	1
69) Naphthalene	13.74	128	82365	11.667	ug/L	99

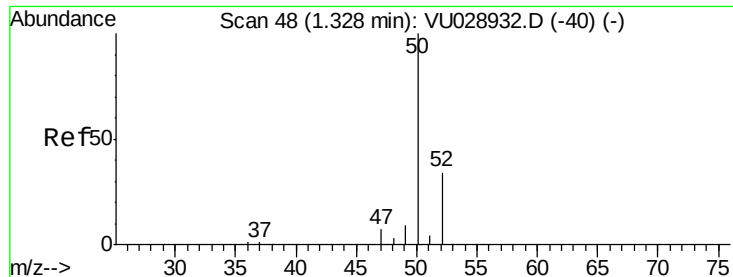
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 1.273 ug/L

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028940.D

Acq: 24 Dec 2018 12:17

Instrument :

MSVOA_U

ClientSampleId :

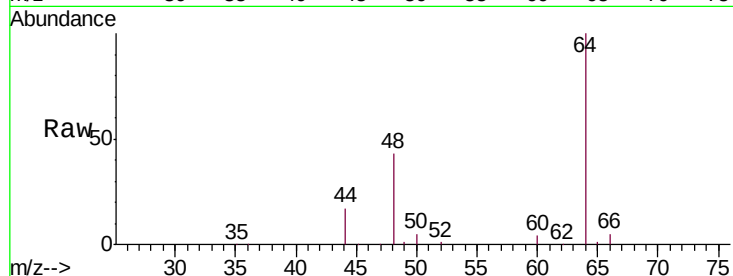
F9F71

Tgt Ion: 50 Resp: 3442

Ion Ratio Lower Upper

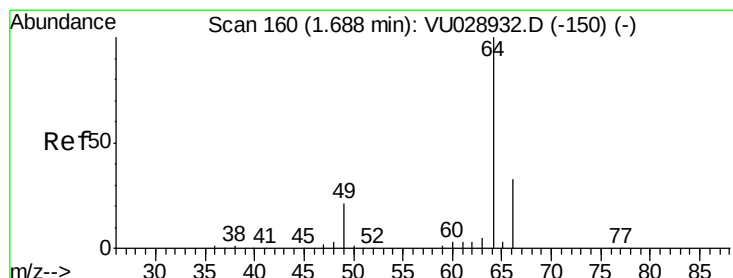
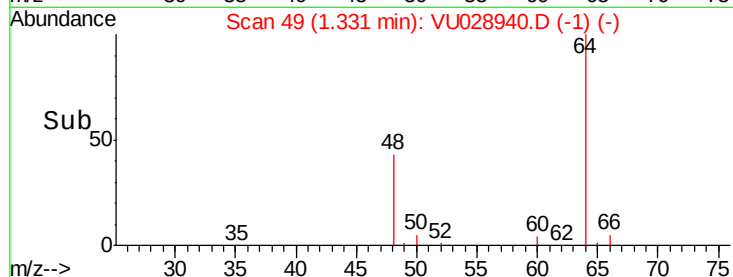
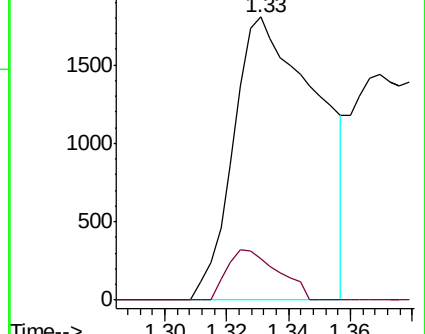
50 100

52 14.8 22.3 41.3#



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#8

Chloroethane

Concen: 198.555 ug/L

RT: 1.39 min Scan# 68

Delta R.T. -0.30 min

Lab File: VU028940.D

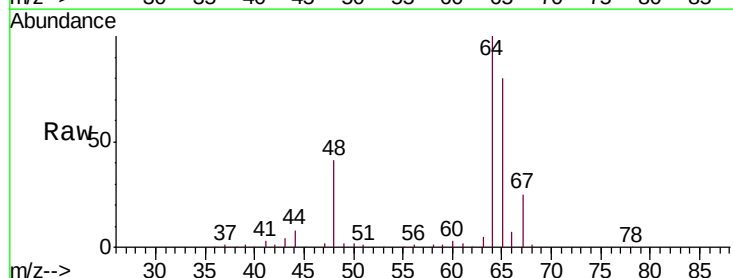
Acq: 24 Dec 2018 12:17

Tgt Ion: 64 Resp: 270643

Ion Ratio Lower Upper

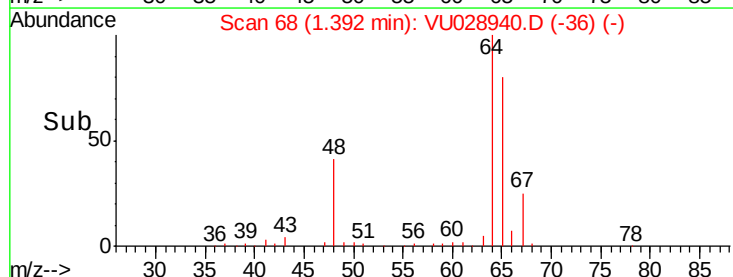
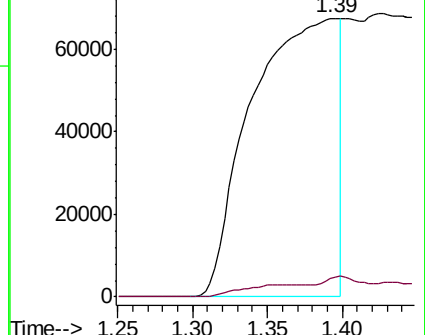
64 100

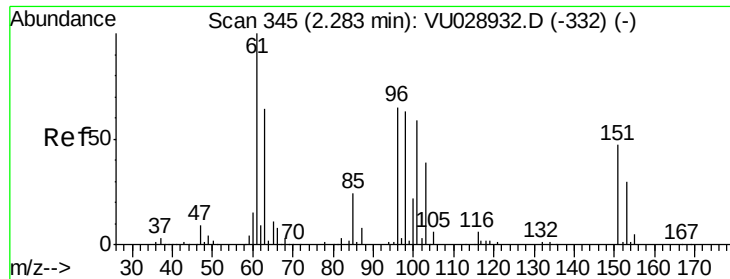
66 6.5 21.5 39.9#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.668 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU028940.D

Acq: 24 Dec 2018 12:17

Instrument :

MSVOA_U

ClientSampled :

F9F71

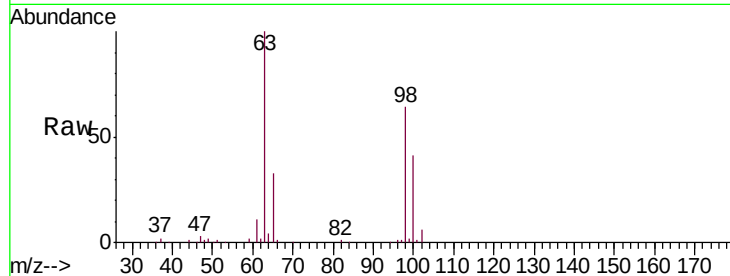
Tgt Ion: 101 Resp: 1056

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

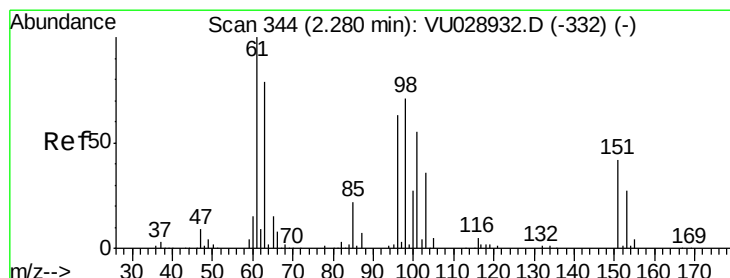
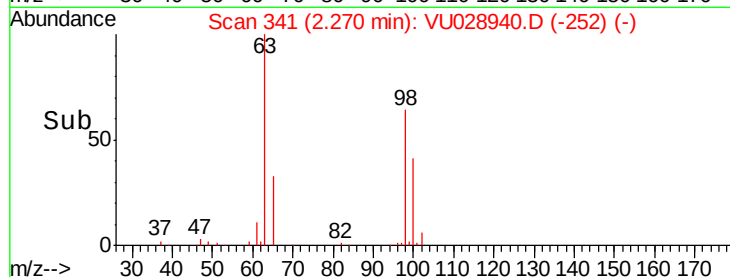
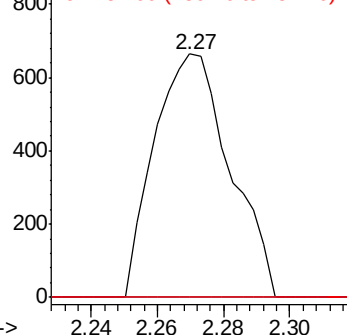
151 0.0 59.4 89.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.634 ug/L

RT: 2.27 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU028940.D

Acq: 24 Dec 2018 12:17

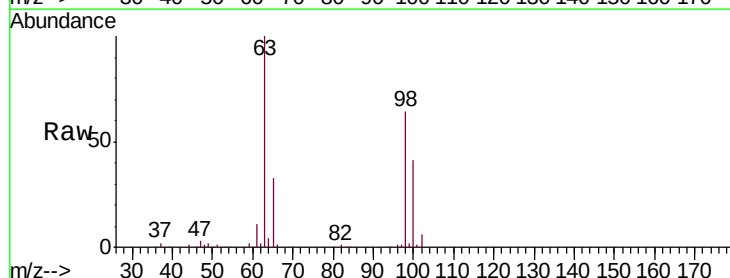
Tgt Ion: 96 Resp: 991

Ion Ratio Lower Upper

96 100

61 1226.0 119.3 221.5#

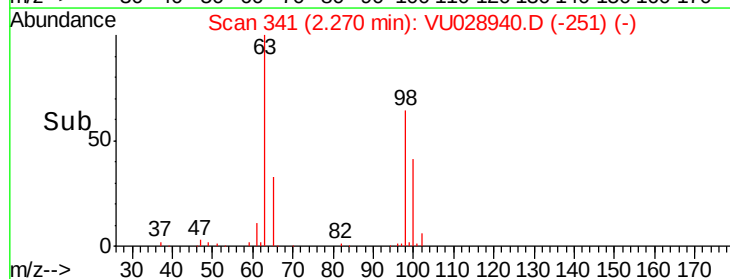
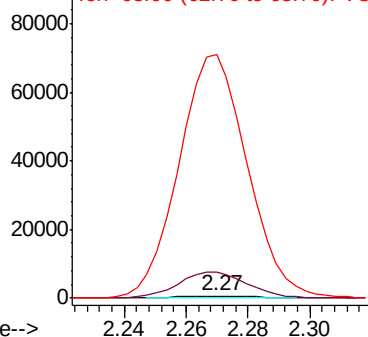
63 11382.1 107.4 199.6#

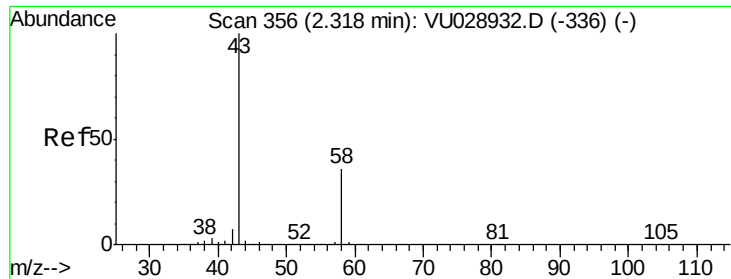


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.364 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU028940.D

Acq: 24 Dec 2018 12:17

Instrument :

MSVOA_U

ClientSampleId :

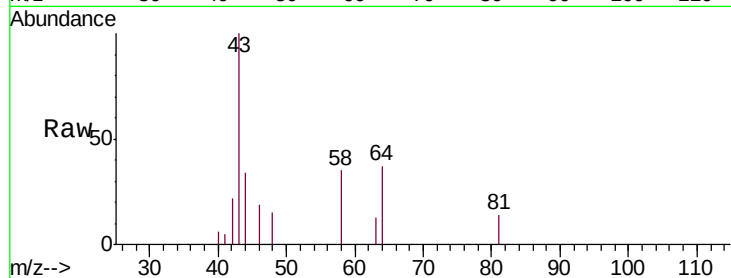
F9F71

Tgt Ion: 43 Resp: 3299

Ion Ratio Lower Upper

43 100

58 22.8 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU028932.D (-336) (-)

Ion 58.00 (57.70 to 58.70): VU028932.D (-336) (-)

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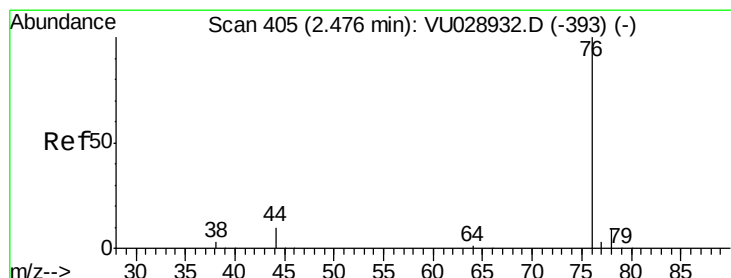
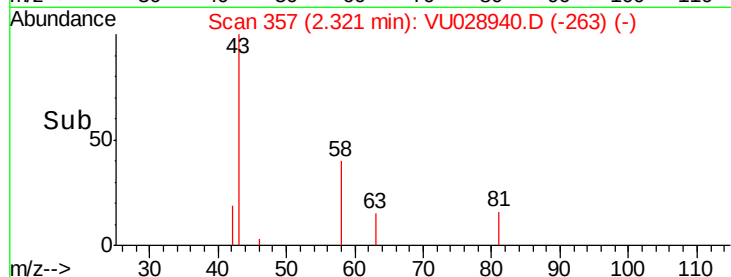
2.32

2.32

2.32

2.32

2.32



#14

Carbon disulfide

Concen: 1.602 ug/L

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU028940.D

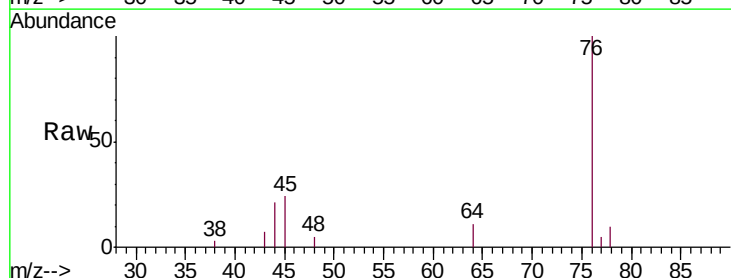
Acq: 24 Dec 2018 12:17

Tgt Ion: 76 Resp: 8745

Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU028932.D (-393) (-)

Ion 78.00 (77.70 to 78.70): VU028932.D (-393) (-)

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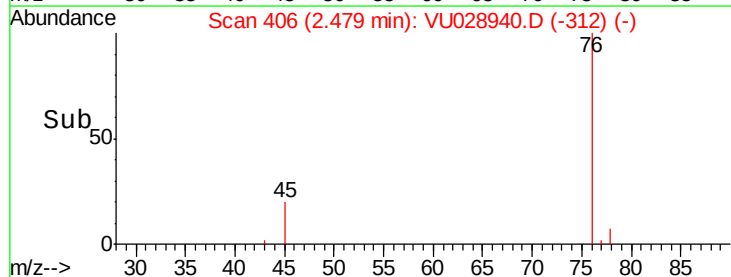
2.48

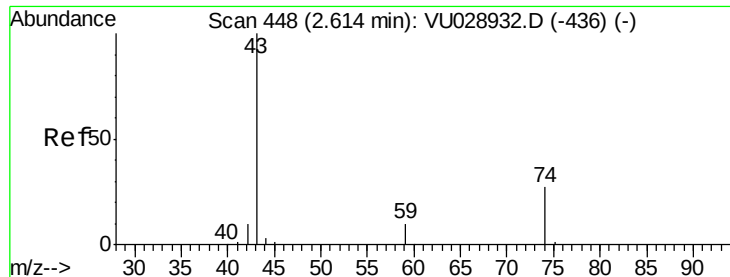
2.48

2.48

2.48

2.48

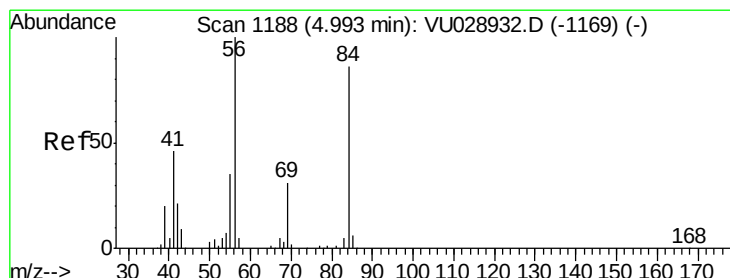
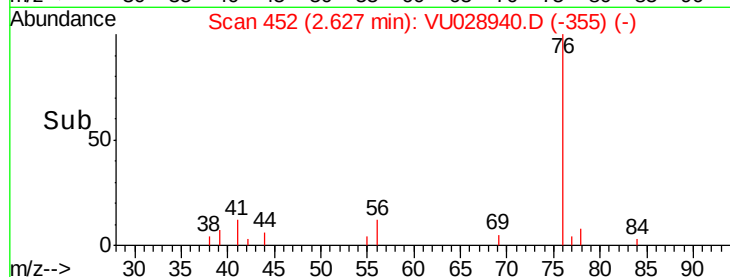
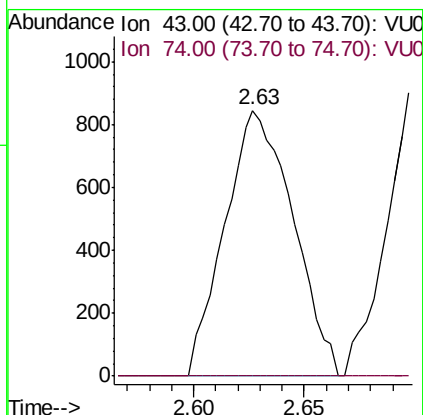
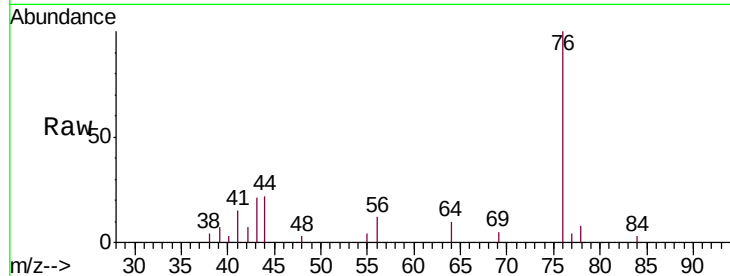




#15
Methyl Acetate
Concen: 0.833 ug/L
RT: 2.63 min Scan# 452
Delta R.T. 0.01 min
Lab File: VU028940.D
Acq: 24 Dec 2018 12:17

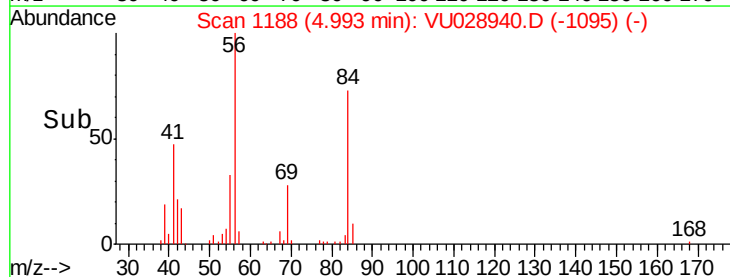
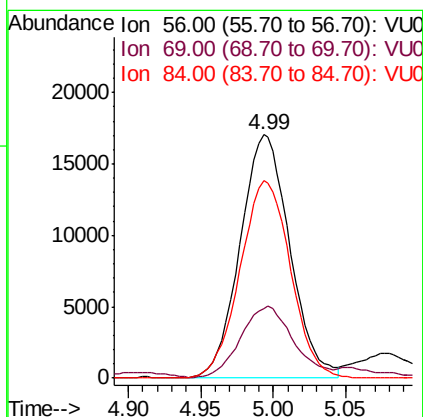
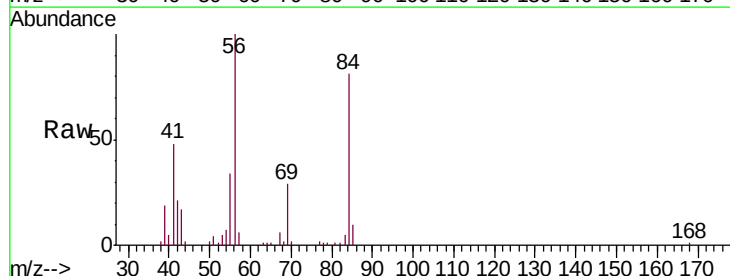
Instrument :
MSVOA_U
ClientSampled :
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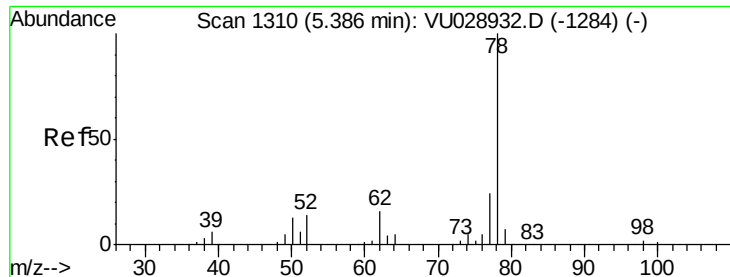
Tgt Ion: 43 Resp: 1813
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.4#



#29
Cyclohexane
Concen: 13.638 ug/L
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU028940.D
Acq: 24 Dec 2018 12:17

Tgt Ion: 56 Resp: 40675
Ion Ratio Lower Upper
56 100
69 31.6 23.8 35.8
84 82.4 63.8 95.8





#33

Benzene

Concen: 4.911 ug/L

RT: 5.39 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VU028940.D

Acq: 24 Dec 2018 12:17

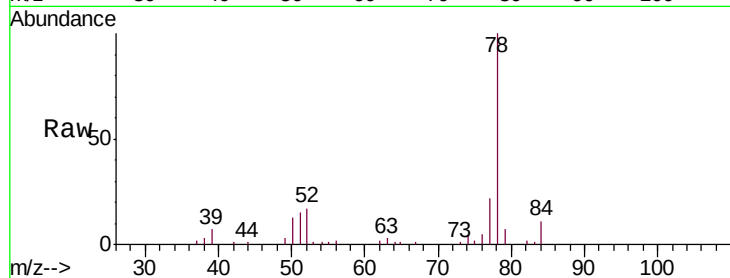
Instrument :

MSVOA_U

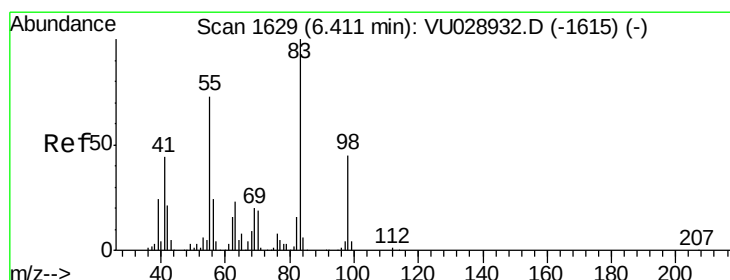
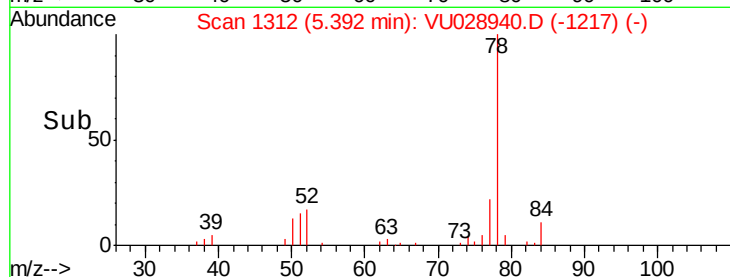
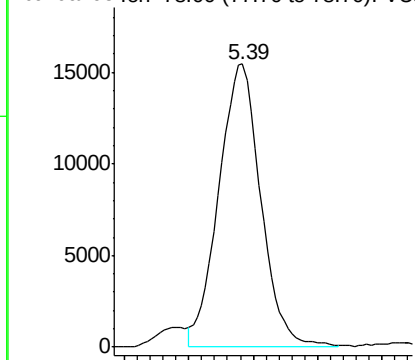
ClientSampleId :

F9F71

Tgt Ion: 78 Resp: 35033



Abundance Ion 78.00 (77.70 to 78.70): VU0



#35

Methylcyclohexane

Concen: 21.105 ug/L

RT: 6.41 min Scan# 1630

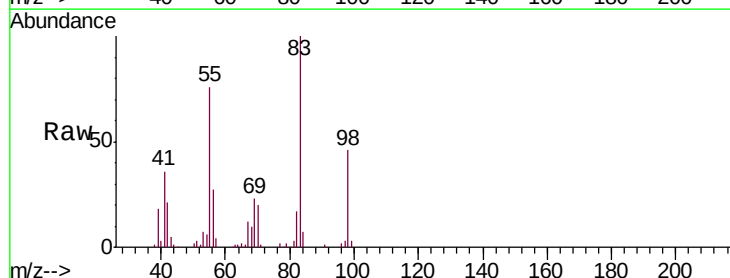
Delta R.T. 0.00 min

Lab File: VU028940.D

Acq: 24 Dec 2018 12:17

Tgt Ion: 83 Resp: 60543

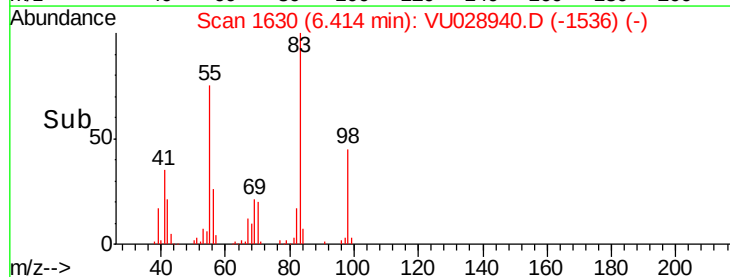
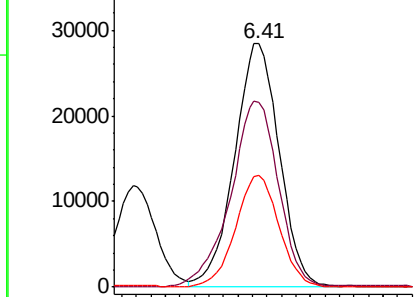
Ion	Ratio	Lower	Upper
83	100		
55	82.1	63.7	95.5
98	44.8	35.6	53.4

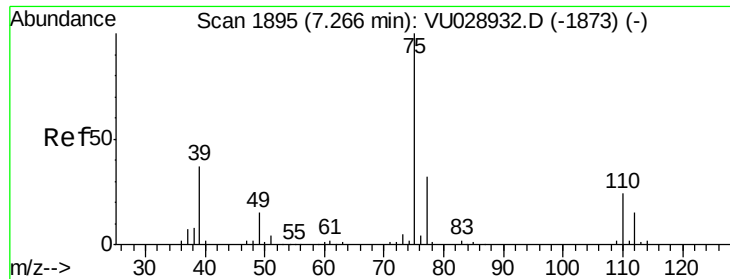


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

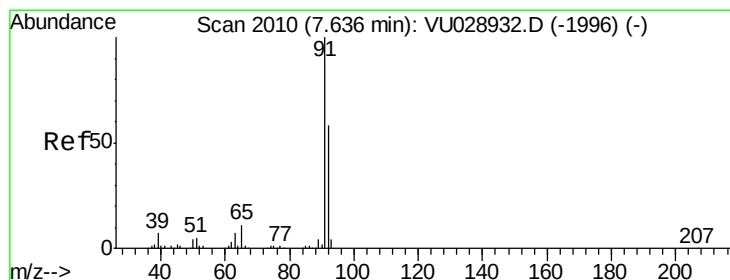
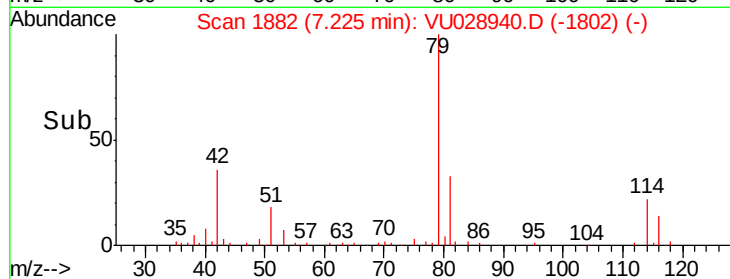
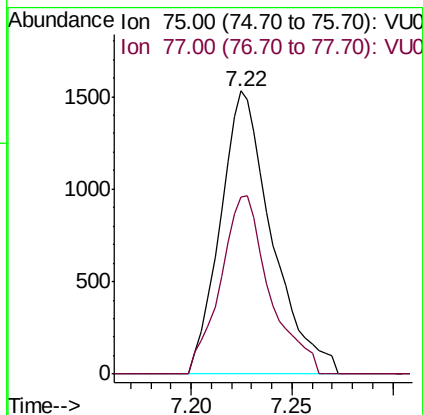
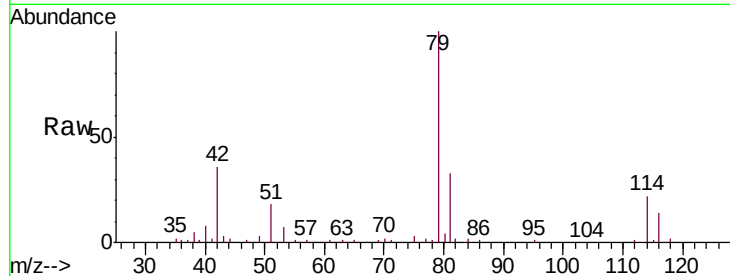




#39
 cis-1,3-Dichloropropene
 Concen: 0.960 ug/L
 RT: 7.22 min Scan# 1882
 Delta R.T. -0.04 min
 Lab File: VU028940.D
 Acq: 24 Dec 2018 12:17

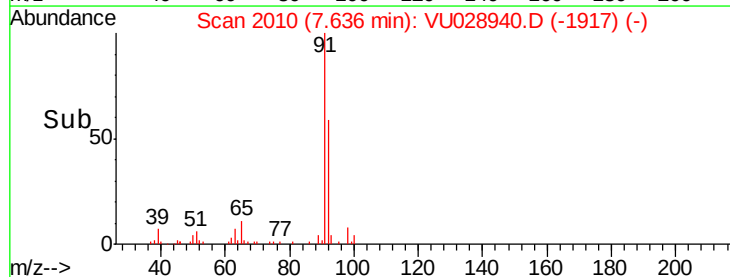
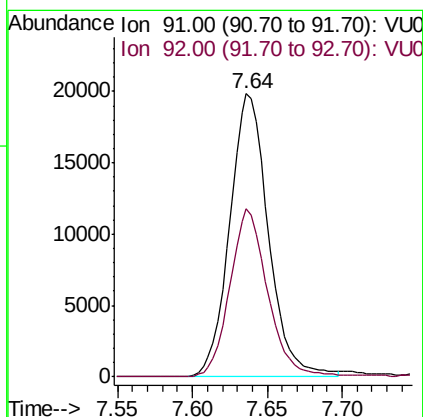
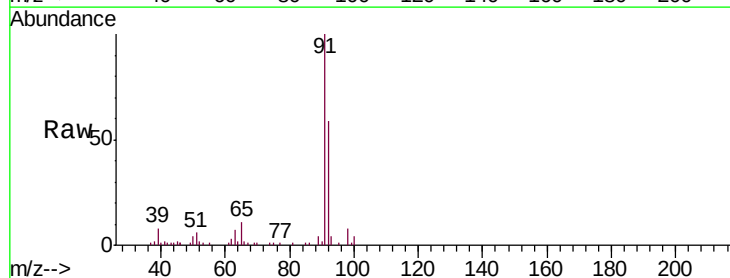
Instrument :
 MSVOA_U
 ClientSampleId :
 F9F71

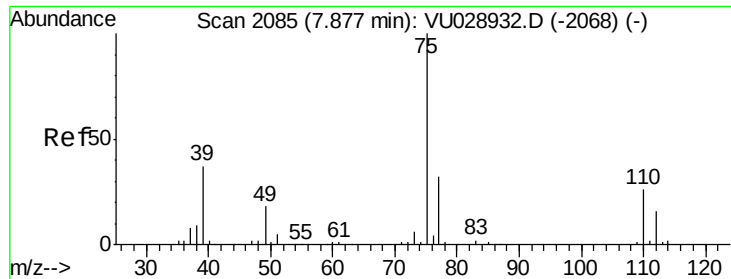
Tgt Ion: 75 Resp: 2729
 Ion Ratio Lower Upper
 75 100
 77 62.4 21.8 40.6#



#42
 Toluene
 Concen: 4.943 ug/L
 RT: 7.64 min Scan# 2010
 Delta R.T. -0.00 min
 Lab File: VU028940.D
 Acq: 24 Dec 2018 12:17

Tgt Ion: 91 Resp: 35751
 Ion Ratio Lower Upper
 91 100
 92 59.3 39.9 74.1

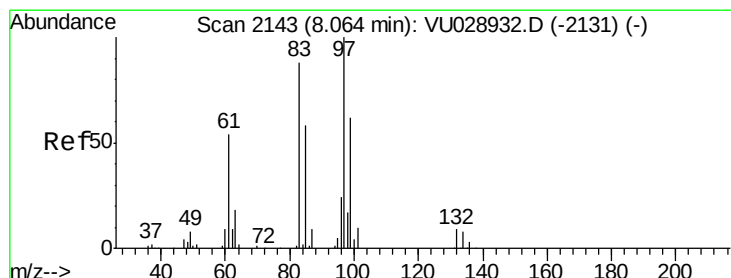
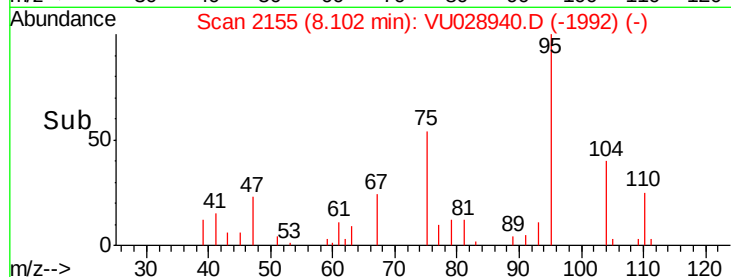
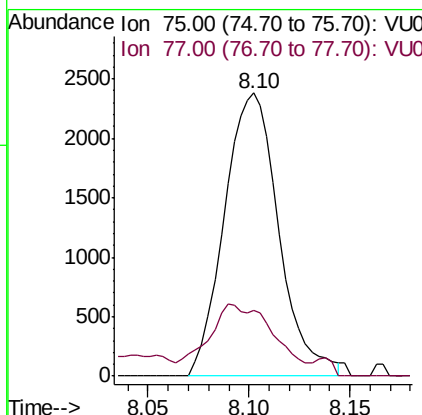
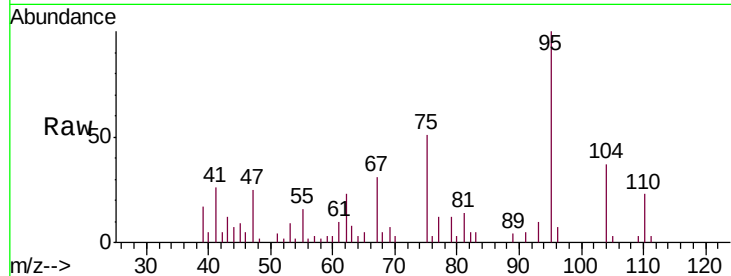




#44
trans-1,3-Dichloropropene
Concen: 1.775 ug/L
RT: 8.10 min Scan# 2155
Delta R.T. 0.22 min
Lab File: VU028940.D
Acq: 24 Dec 2018 12:17

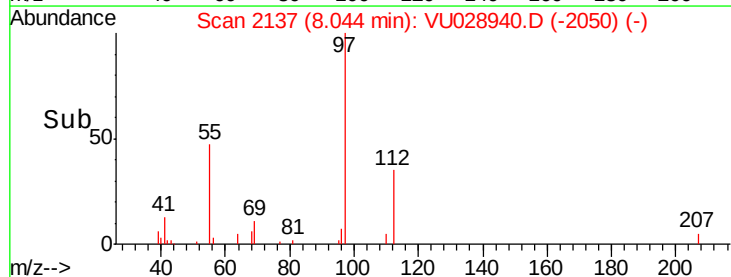
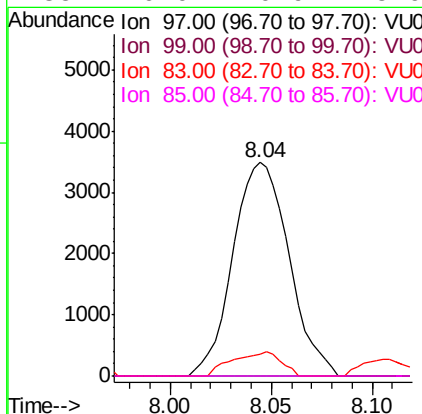
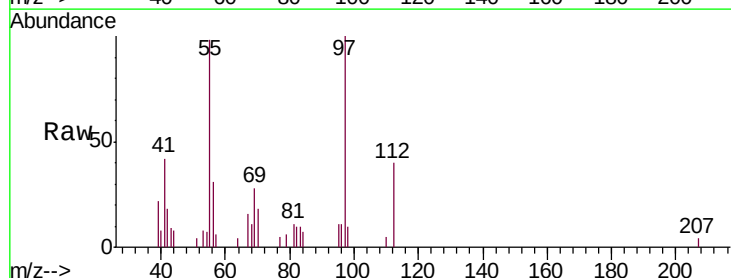
Instrument :
MSVOA_U
ClientSampleId :
F9F71

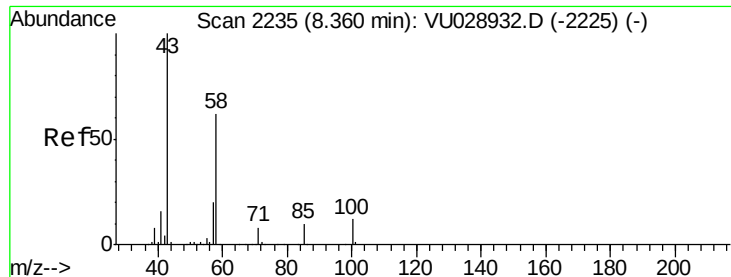
Tgt Ion: 75 Resp: 4499
Ion Ratio Lower Upper
75 100
77 23.1 21.8 40.6



#45
1,1,2-Trichloroethane
Concen: 3.979 ug/L
RT: 8.04 min Scan# 2137
Delta R.T. -0.02 min
Lab File: VU028940.D
Acq: 24 Dec 2018 12:17

Tgt Ion: 97 Resp: 6785
Ion Ratio Lower Upper
97 100
99 0.0 44.2 82.2#
83 10.5 64.5 119.9#
85 0.0 40.9 75.9#

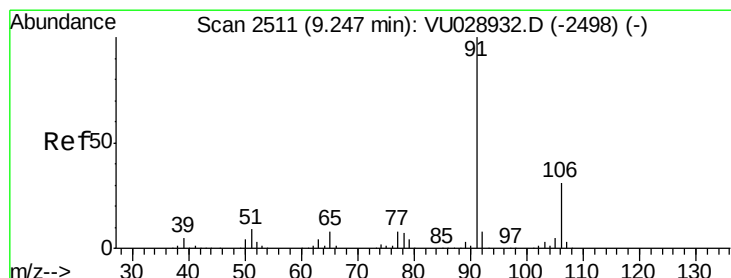
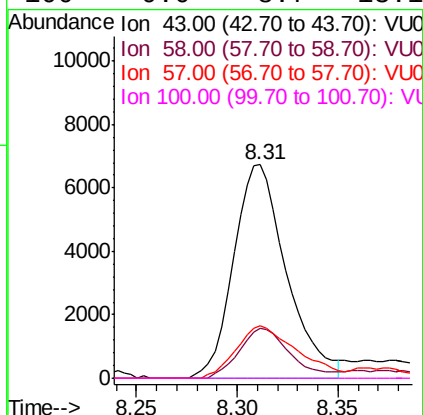
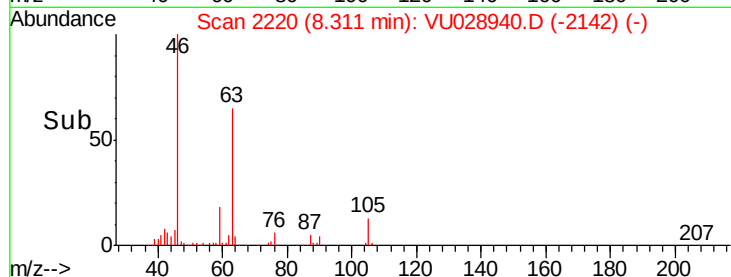
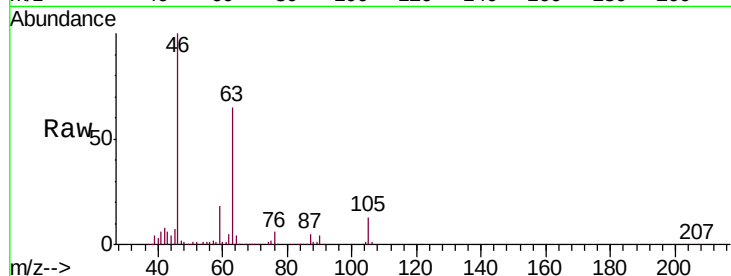




#48
2-Hexanone
Concen: 5.612 ug/L
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU028940.D
Acq: 24 Dec 2018 12:17

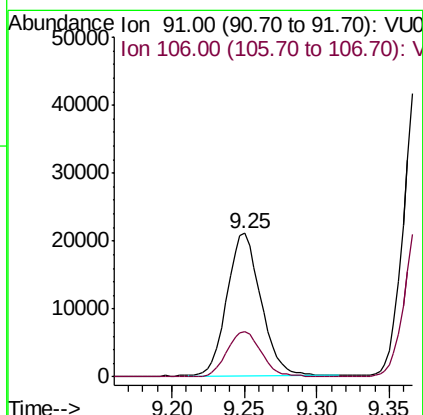
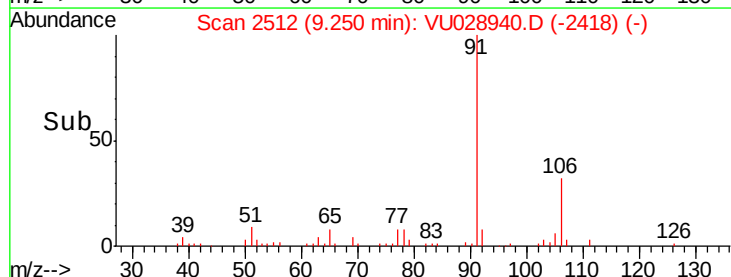
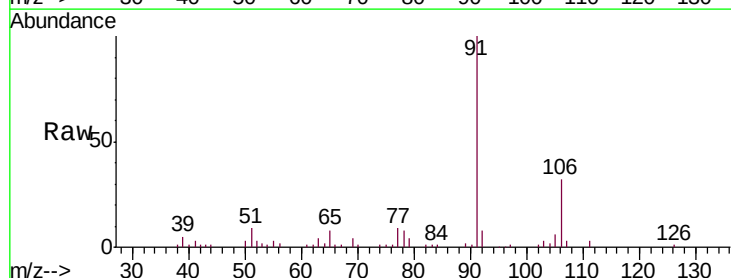
Instrument :
MSVOA_U
ClientSampled :
F9F71

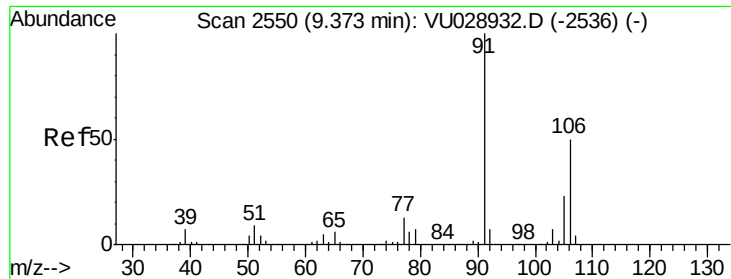
Tgt Ion:	43	Resp:	12346
Ion	Ratio	Lower	Upper
43	100		
58	22.3	45.9	68.9#
57	28.4	15.0	22.4#
100	0.0	8.7	13.1#



#52
Ethylbenzene
Concen: 4.416 ug/L
RT: 9.25 min Scan# 2512
Delta R.T. 0.00 min
Lab File: VU028940.D
Acq: 24 Dec 2018 12:17

Tgt Ion:	91	Resp:	34317
Ion	Ratio	Lower	Upper
91	100		
106	31.7	20.9	38.9

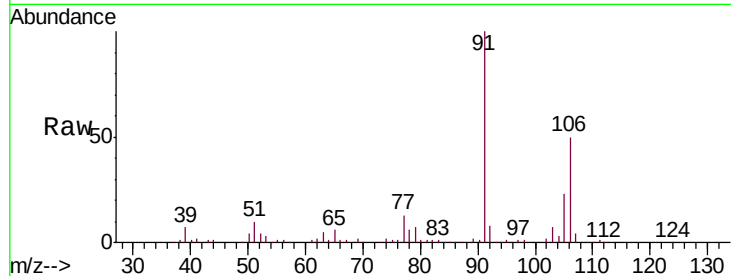




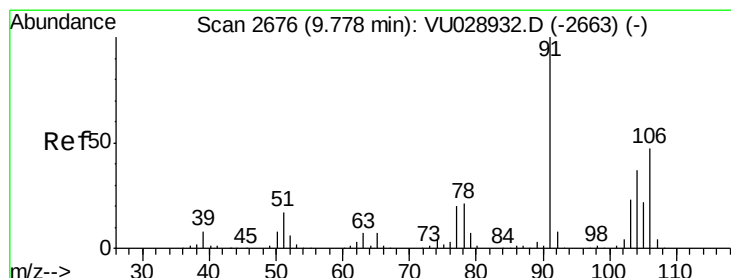
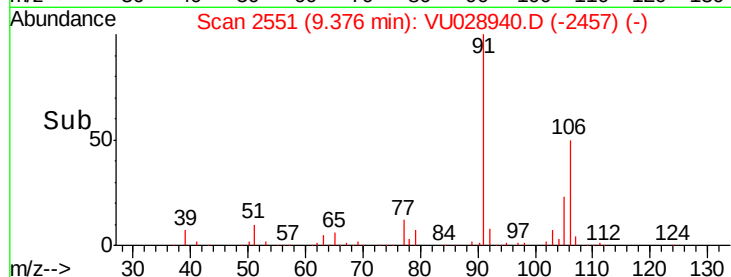
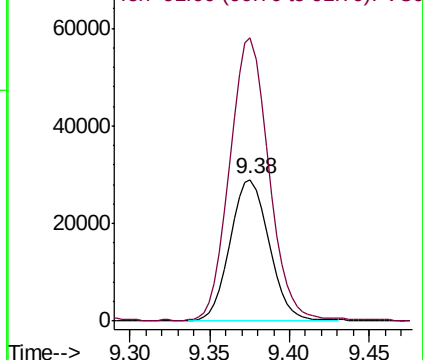
#53
m,p-Xylene
Concen: 16.861 ug/L
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU028940.D
Acq: 24 Dec 2018 12:17

Instrument :
MSVOA_U
ClientSampleId :
F9F71

Tgt Ion:106 Resp: 48452
Ion Ratio Lower Upper
106 100
91 200.1 144.1 267.5

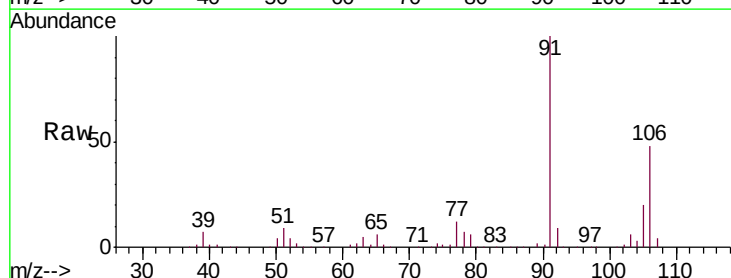


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

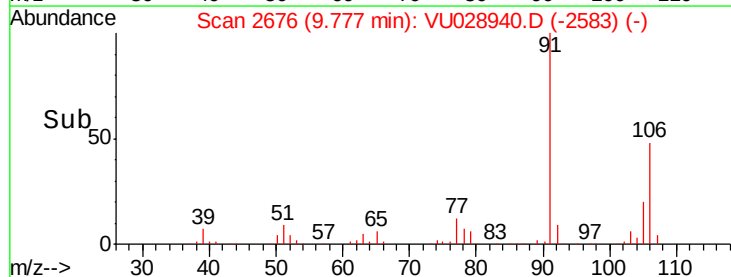
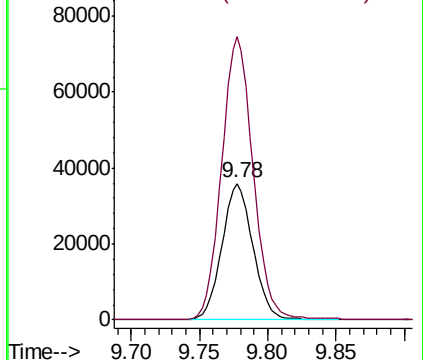


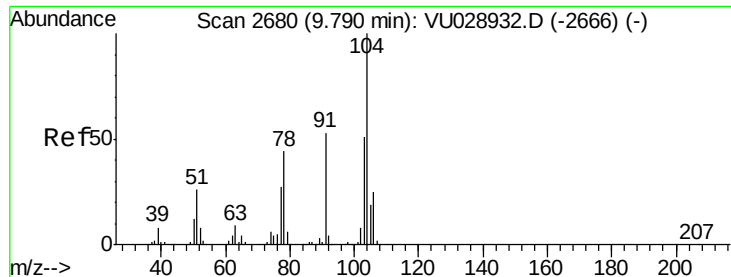
#54
o-xylene
Concen: 19.676 ug/L
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028940.D
Acq: 24 Dec 2018 12:17

Tgt Ion:106 Resp: 56667
Ion Ratio Lower Upper
106 100
91 207.7 150.4 279.4



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





#55

Styrene

Concen: 0.600 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.01 min

Lab File: VU028940.D

Acq: 24 Dec 2018 12:17

Instrument :

MSVOA_U

ClientSampleId :

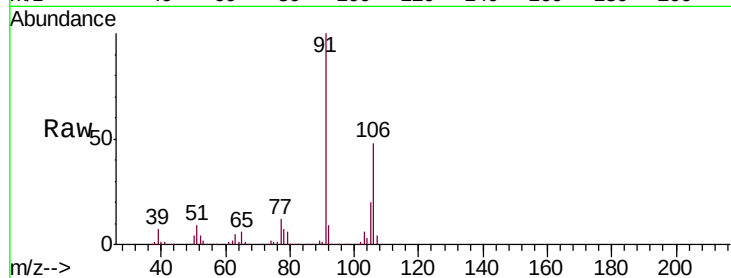
F9F71

Tgt Ion:104 Resp: 2925

Ion Ratio Lower Upper

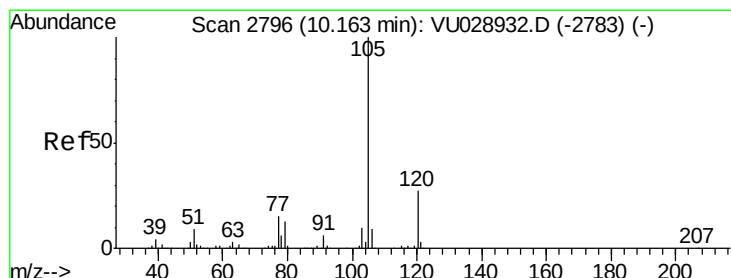
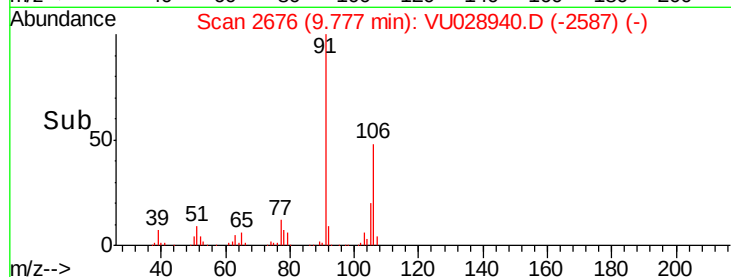
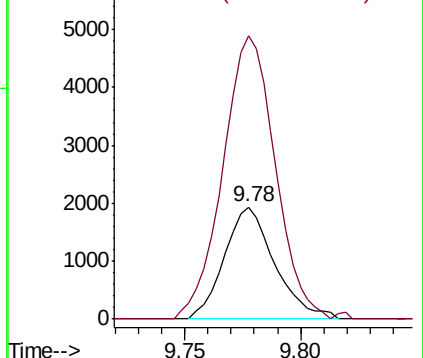
104 100

78 252.2 31.3 58.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 3.431 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU028940.D

Acq: 24 Dec 2018 12:17

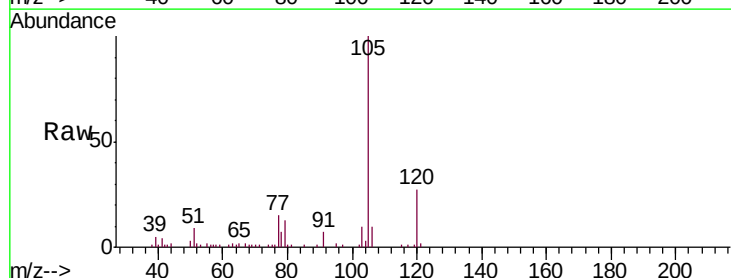
Tgt Ion:105 Resp: 25070

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

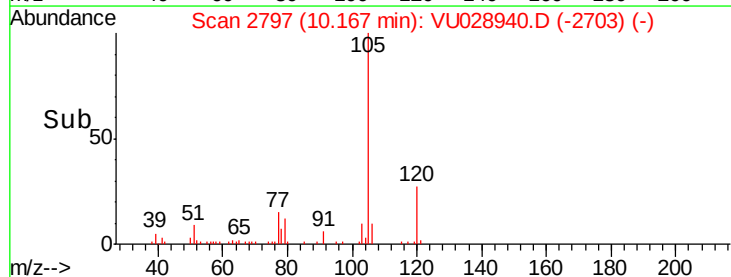
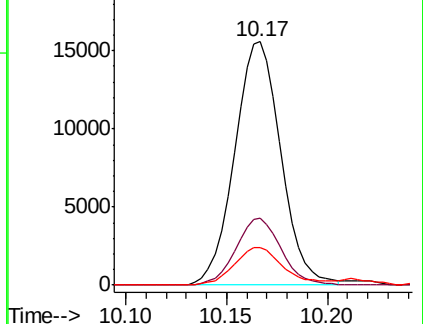
77 16.4 12.3 18.5

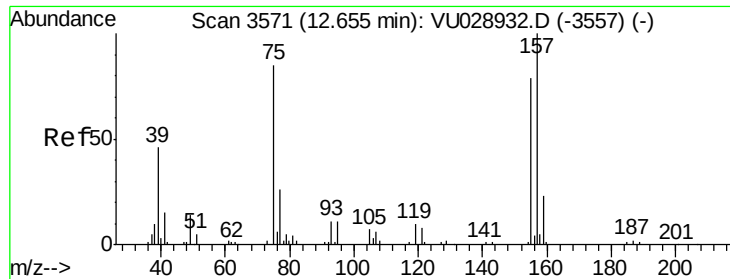


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

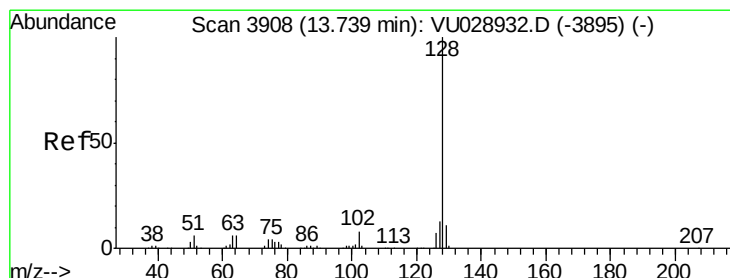
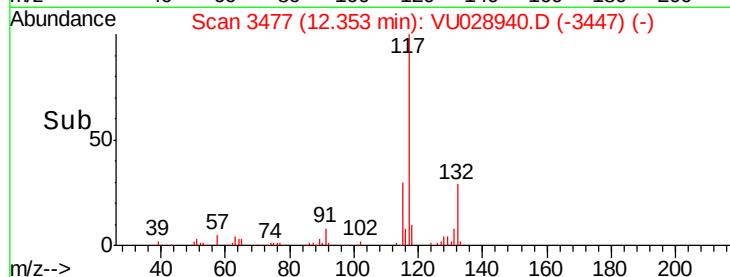
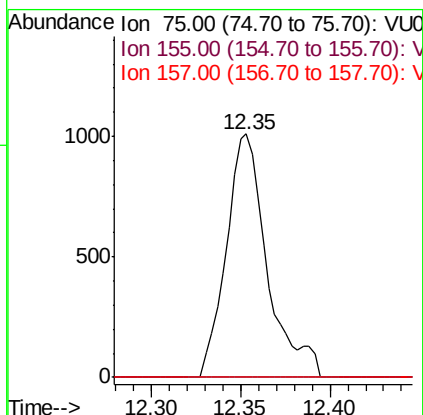
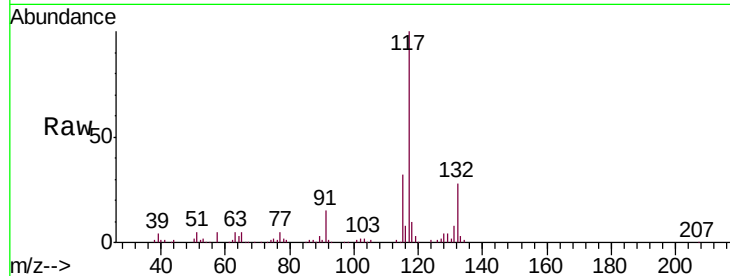




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.713 ug/L
 RT: 12.35 min Scan# 3477
 Delta R.T. -0.30 min
 Lab File: VU028940.D
 Acq: 24 Dec 2018 12:17

Instrument :
 MSVOA_U
 ClientSampleId :
 F9F71

Tgt Ion: 75 Resp: 1608
 Ion Ratio Lower Upper
 75 100
 155 0.0 71.4 107.2#
 157 0.0 89.6 134.4#



#69
 Naphthalene
 Concen: 11.667 ug/L
 RT: 13.74 min Scan# 3909
 Delta R.T. 0.00 min
 Lab File: VU028940.D
 Acq: 24 Dec 2018 12:17

Tgt Ion: 128 Resp: 82365
 Ion Ratio Lower Upper
 128 100
 127 12.5 10.5 15.7
 129 10.7 8.7 13.1

