

Data File : VU029644.D
Acq On : 23 Feb 2019 01:07
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

Quant Time: Feb 23 01:48:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 22 23:08:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	505547	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	508227	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	275798	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	162858	43.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.92%
7) Chloroethane-d5	1.68	69	143189	43.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.96%
11) 1,1-Dichloroethene-d2	2.27	63	317273	43.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.64%
21) 2-Butanone-d5	4.17	46	235371	104.41	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.41%
24) Chloroform-d	4.64	84	303857	50.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.14%
26) 1,2-Dichloroethane-d4	5.31	65	186880	49.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.26%
32) Benzene-d6	5.34	84	642060	50.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.42%
36) 1,2-Dichloropropane-d6	6.33	67	192320	49.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.98%
41) Toluene-d8	7.56	98	626509	48.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.02%
43) trans-1,3-Dichloropropene-	7.85	79	91973	45.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.14%
47) 2-Hexanone-d5	8.31	63	204197	95.30	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.30%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	305650	47.02	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.04%
64) 1,2-Dichlorobenzene-d4	11.86	152	276406	46.50	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	167124	48.213	ug/L 99
3) Chloromethane	1.32	50	150833	49.601	ug/L 100
5) Vinyl chloride	1.40	62	194386	47.069	ug/L 98
6) Bromomethane	1.62	94	85244	45.227	ug/L 99
8) Chloroethane	1.70	64	122894	44.740	ug/L 100
9) Trichlorofluoromethane	1.88	101	276204	41.955	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	154254	43.804	ug/L 100
12) 1,1-Dichloroethene	2.28	96	153834	45.950	ug/L 96
13) Acetone	2.32	43	149413	62.024	ug/L 100
14) Carbon disulfide	2.48	76	450145	51.340	ug/L 99
15) Methyl Acetate	2.61	43	166342	53.200	ug/L 99
16) Methylene chloride	2.70	84	168836	52.118	ug/L 98
17) trans-1,2-Dichloroethene	2.98	96	160014	51.785	ug/L 98
18) Methyl tert-butyl Ether	3.00	73	485892	50.791	ug/L 99
19) 1,1-Dichloroethane	3.44	63	280365	52.473	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	185551	51.679	ug/L 99
22) 2-Butanone	4.26	43	234569	85.322	ug/L 99

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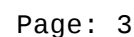
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

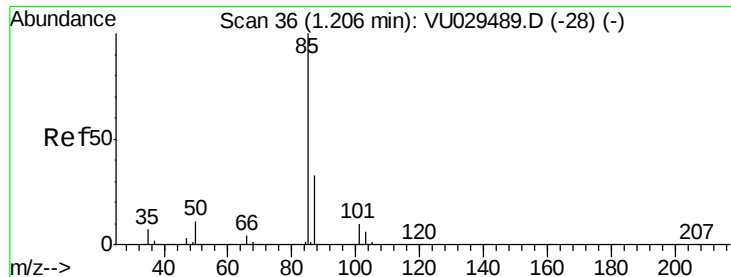
Quant Time: Feb 23 01:48:42 2019
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Quant Title : VOC Analysis
QLast Update : Fri Feb 22 23:08:46 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	97147	49.357	ug/L	95
25) Chloroform	4.67	83	305336	51.220	ug/L	99
27) 1,2-Dichloroethane	5.40	62	229808	50.140	ug/L	100
29) Cyclohexane	4.99	56	249001	49.508	ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	260512	48.344	ug/L	99
31) Carbon tetrachloride	5.13	117	226184	46.374	ug/L	99
33) Benzene	5.39	78	662963	50.879	ug/L	100
34) Trichloroethene	6.18	95	176766	50.358	ug/L	98
35) Methylcyclohexane	6.41	83	275811	47.314	ug/L	98
37) 1,2-Dichloropropane	6.43	63	172406	50.404	ug/L	100
38) Bromodichloromethane	6.76	83	222671	48.288	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	266953	48.373	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	461934	96.037	ug/L	98
42) Toluene	7.63	91	757082	49.131	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	239592	46.067	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	177890	48.793	ug/L	97
46) Tetrachloroethene	8.22	164	159289	46.363	ug/L	99
48) 2-Hexanone	8.36	43	367619	87.490	ug/L	98
49) Dibromochloromethane	8.47	129	203472	46.036	ug/L	99
50) 1,2-Dibromoethane	8.58	107	195382	48.370	ug/L	100
51) Chlorobenzene	9.12	112	510944	48.310	ug/L	98
52) Ethylbenzene	9.25	91	839631	47.976	ug/L	100
53) m,p-Xylene	9.37	106	331308	47.160	ug/L	100
54) o-xylene	9.77	106	333503	47.261	ug/L	100
55) Styrene	9.79	104	562497	47.219	ug/L	99
56) Isopropylbenzene	10.16	105	863892	46.784	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	305712	47.420	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	232129	47.597	ug/L	100
61) Bromoform	9.95	173	158514	42.679	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	420749	47.848	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	424601	47.981	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	429999	46.845	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	65786	46.055	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	320317	47.735	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	289766	49.926	ug/L	100
69) Naphthalene	13.74	128	918331	51.478	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	300634	48.778	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 48.213 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

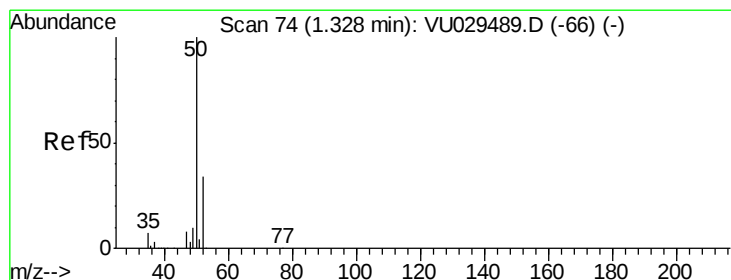
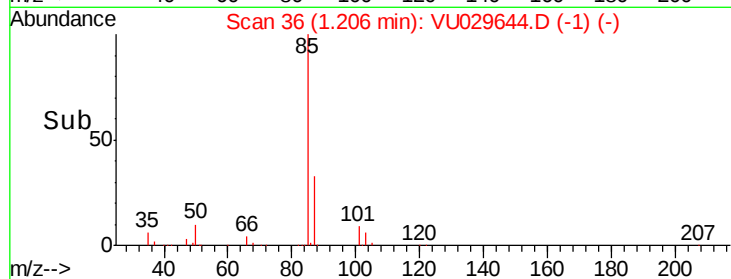
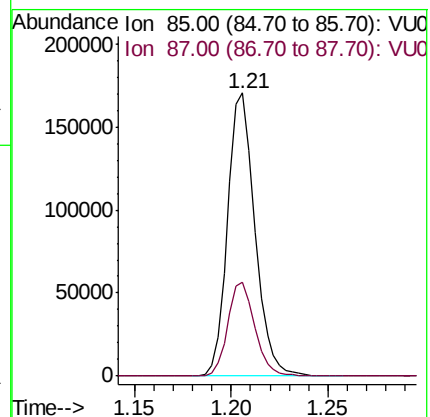
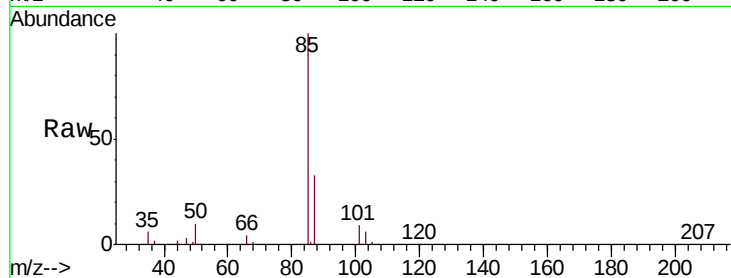
VSTD05055

Tgt Ion: 85 Resp: 167124

Ion Ratio Lower Upper

85 100

87 32.8 25.9 38.9



#3

Chloromethane

Concen: 49.601 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU029644.D

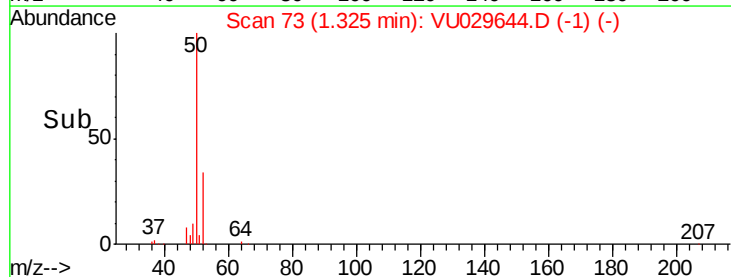
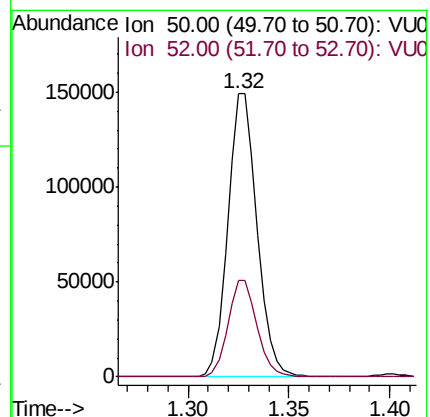
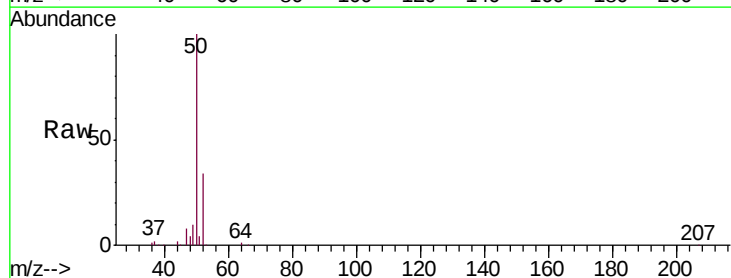
Acq: 23 Feb 2019 01:07

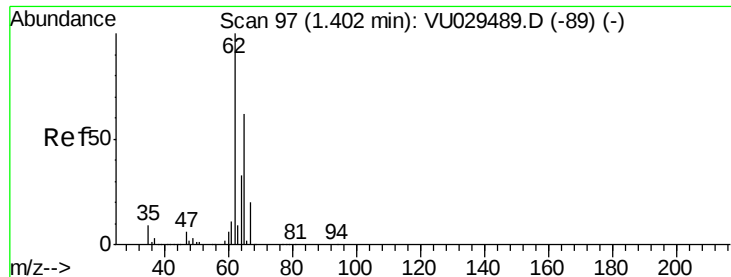
Tgt Ion: 50 Resp: 150833

Ion Ratio Lower Upper

50 100

52 34.1 23.9 44.3





#5

Vinyl chloride

Concen: 47.069 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

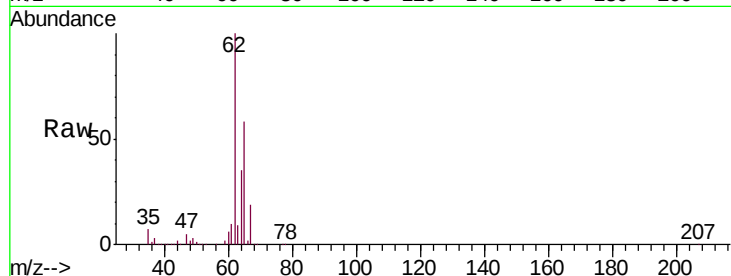
VSTD05055

Tgt Ion: 62 Resp: 194386

Ion Ratio Lower Upper

62 100

64 35.1 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

200000

150000

100000

50000

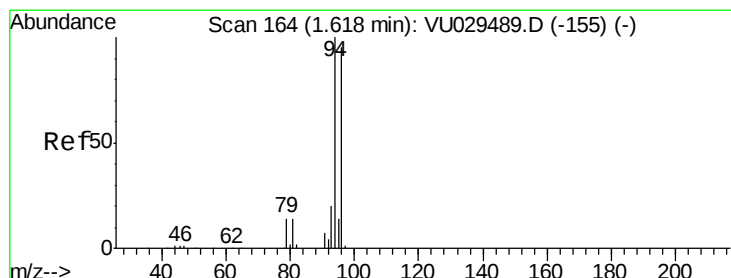
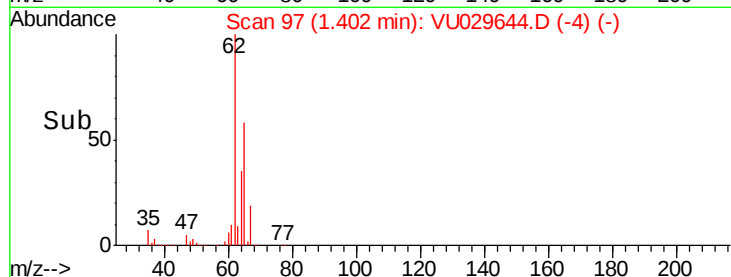
0

Time-->

1.35

1.40

1.45



#6

Bromomethane

Concen: 45.227 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU029644.D

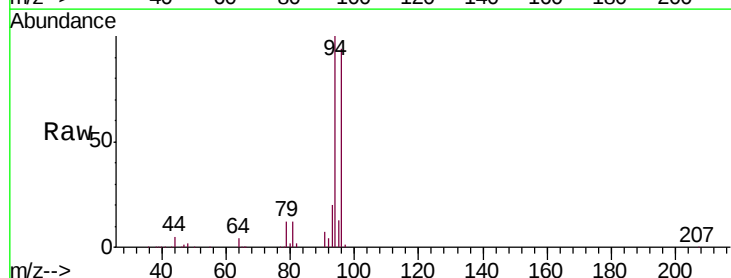
Acq: 23 Feb 2019 01:07

Tgt Ion: 94 Resp: 85244

Ion Ratio Lower Upper

94 100

96 94.0 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.62

80000

60000

40000

20000

0

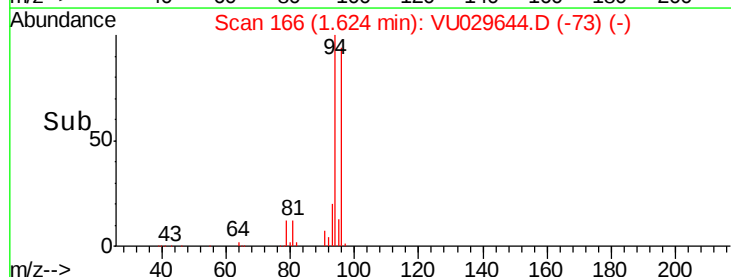
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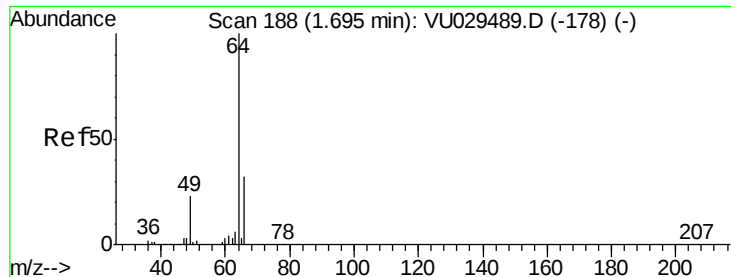
1.55

1.60

1.65

1.70





#8

Chloroethane

Concen: 44.740 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

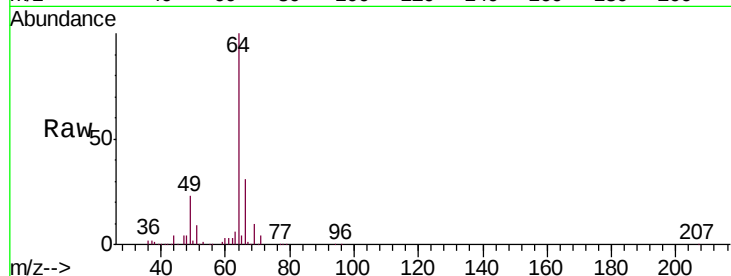
VSTD05055

Tgt Ion: 64 Resp: 122894

Ion Ratio Lower Upper

64 100

66 31.4 22.0 41.0



Abundance Ion 64.00 (63.70 to 64.70): VU029489.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU029489.D (-178) (-)

1.70

100000

80000

60000

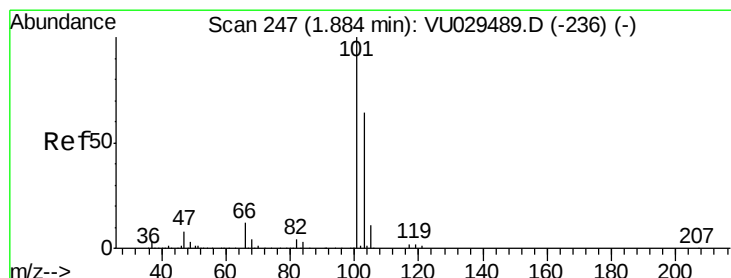
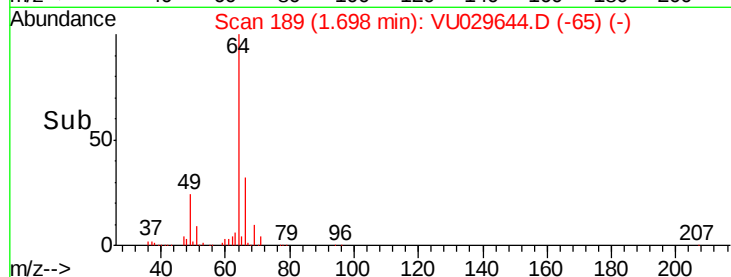
40000

20000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 41.955 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU029644.D

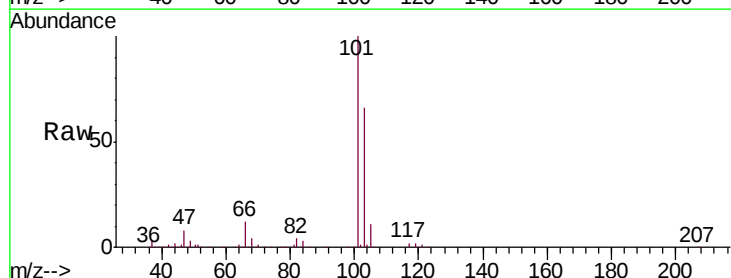
Acq: 23 Feb 2019 01:07

Tgt Ion: 101 Resp: 276204

Ion Ratio Lower Upper

101 100

103 66.1 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU029489.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU029489.D (-236) (-)

1.88

200000

150000

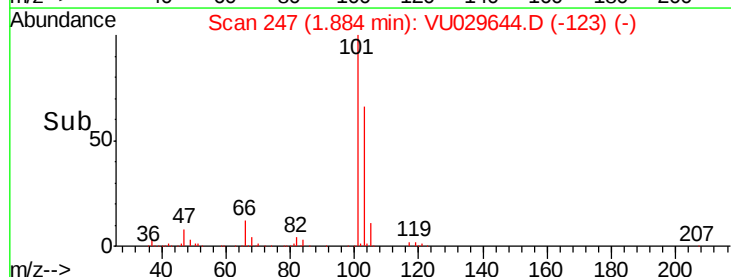
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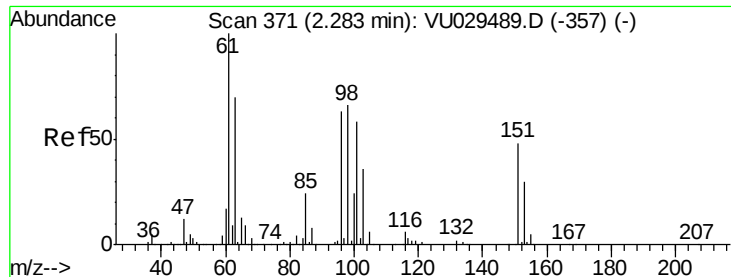
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 43.804 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

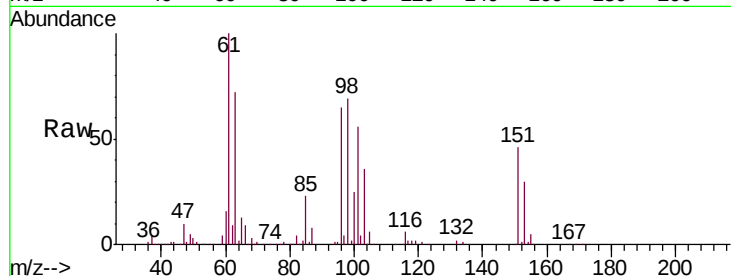
Tgt Ion:101 Resp: 154254

Ion Ratio Lower Upper

101 100

85 41.7 33.0 49.6

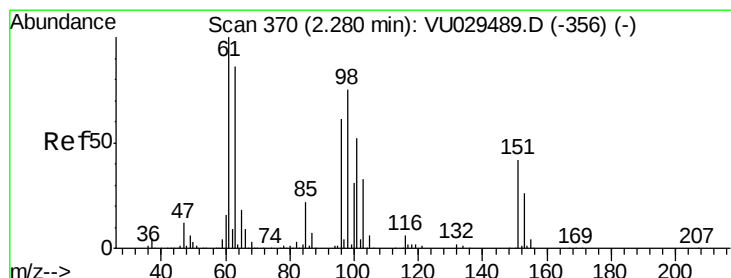
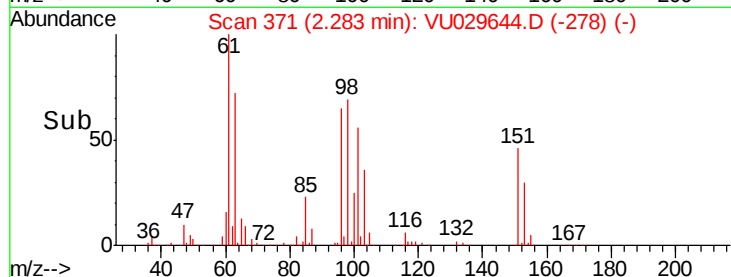
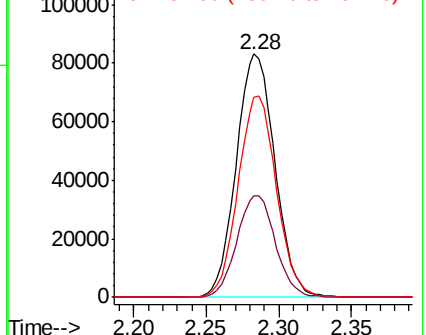
151 82.2 65.7 98.5



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: 45.950 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

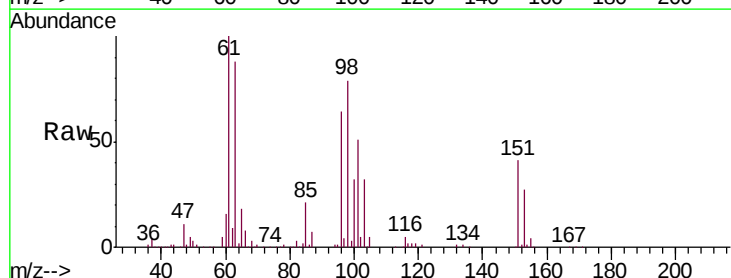
Tgt Ion: 96 Resp: 153834

Ion Ratio Lower Upper

96 100

61 156.7 114.0 211.8

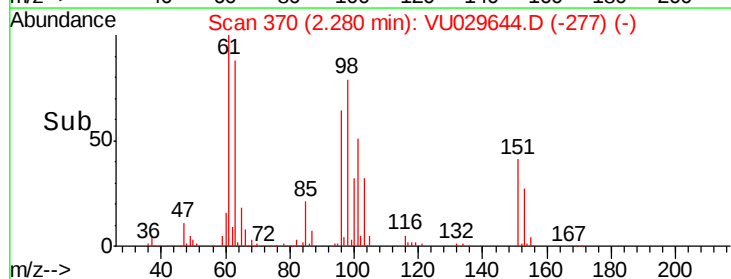
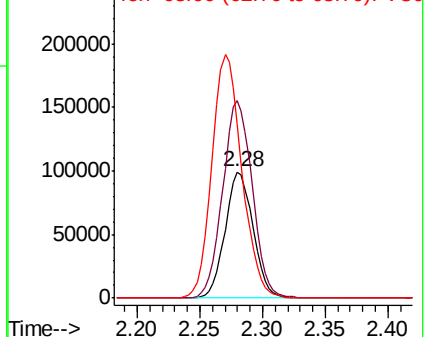
63 138.1 98.7 183.3

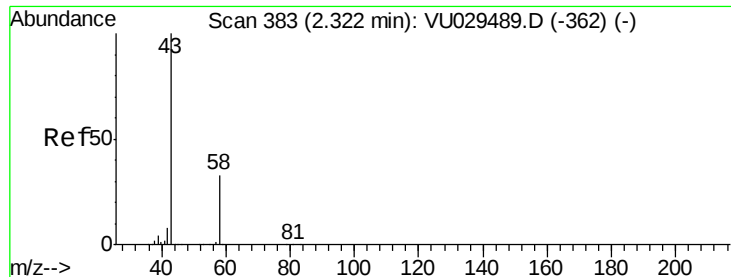


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 62.024 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

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ClientSampleId :

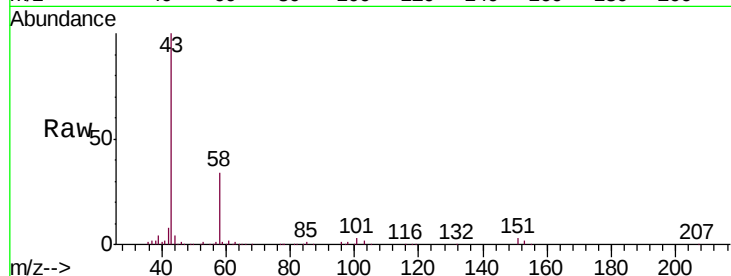
VSTD05055

Tgt Ion: 43 Resp: 149413

Ion Ratio Lower Upper

43 100

58 33.4 0.0 66.8



Abundance Ion 43.00 (42.70 to 43.70): VU029489.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU029489.D (-362) (-)

2.32

100000

80000

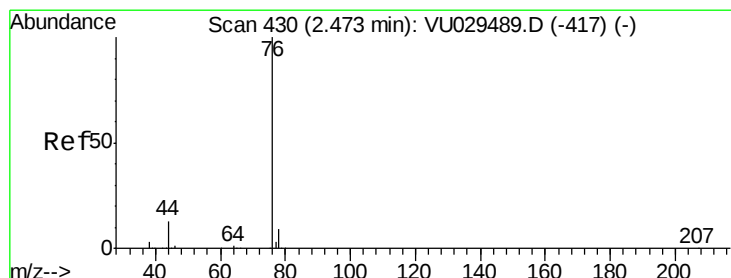
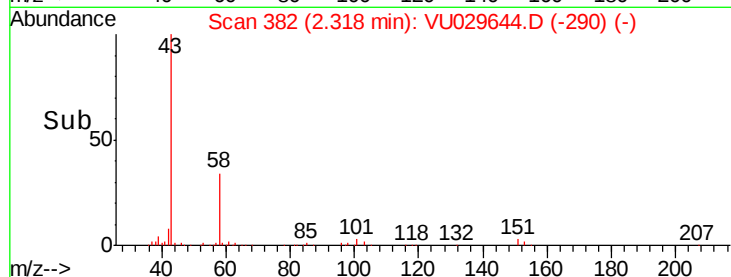
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 51.340 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029644.D

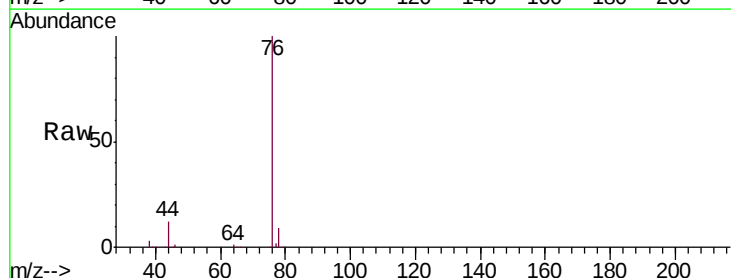
Acq: 23 Feb 2019 01:07

Tgt Ion: 76 Resp: 450145

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU029489.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU029489.D (-417) (-)

2.48

300000

250000

200000

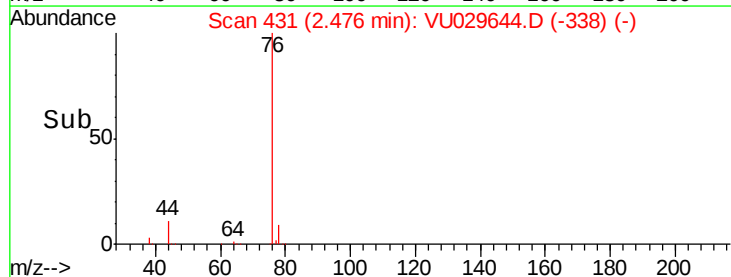
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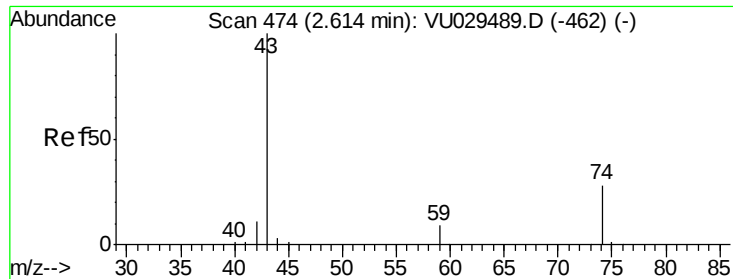
100000

50000

0

Time-->

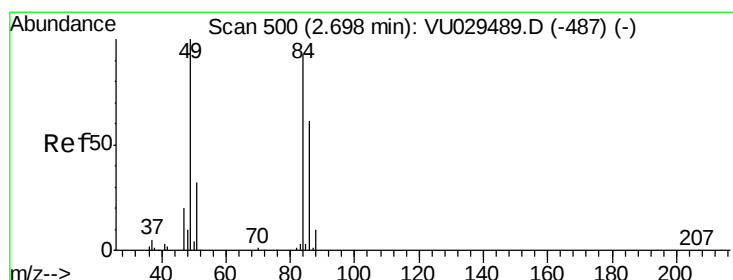
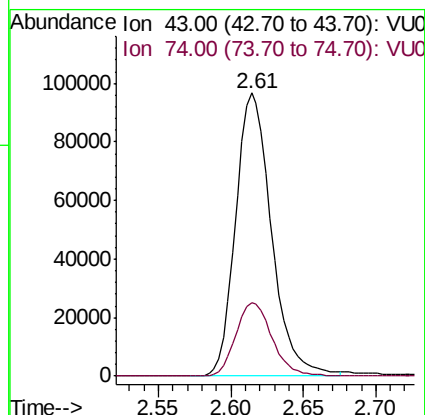
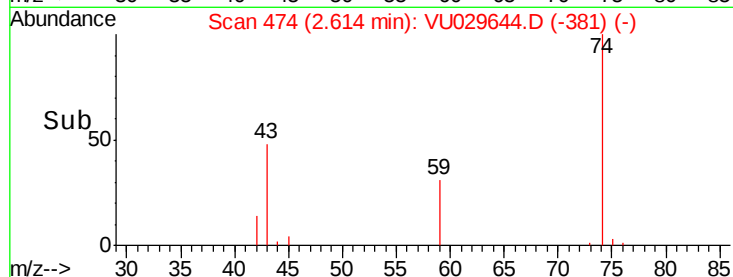
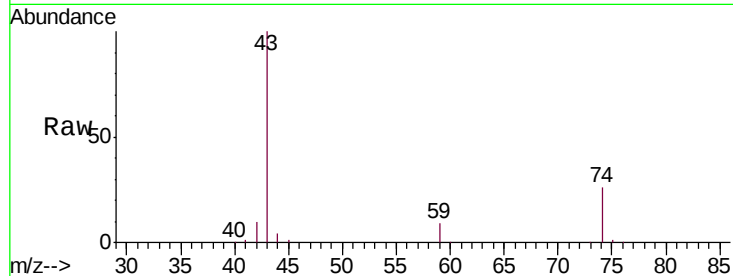




#15
Methyl Acetate
Concen: 53.200 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029644.D
Acq: 23 Feb 2019 01:07

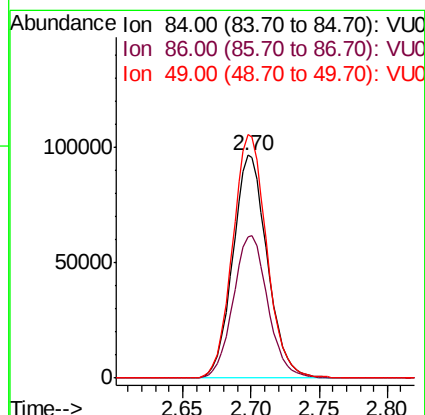
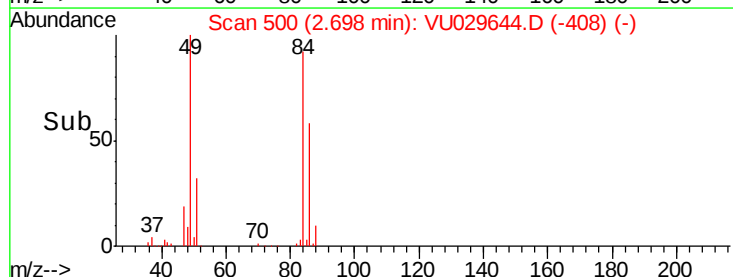
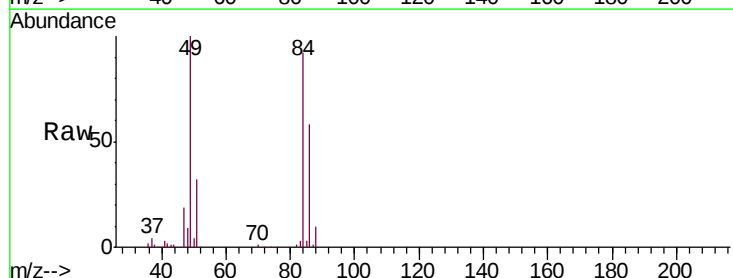
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

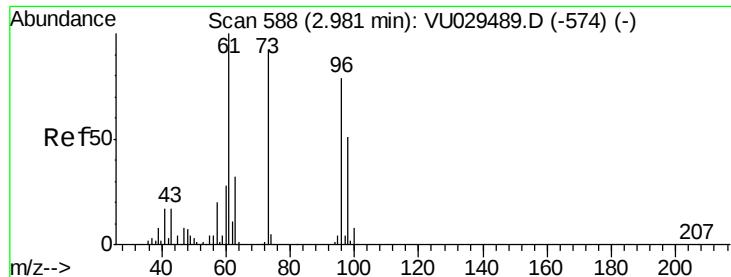
Tgt Ion: 43 Resp: 166342
Ion Ratio Lower Upper
43 100
74 26.5 21.5 32.3



#16
Methylene chloride
Concen: 52.118 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU029644.D
Acq: 23 Feb 2019 01:07

Tgt Ion: 84 Resp: 168836
Ion Ratio Lower Upper
84 100
86 63.4 45.8 85.0
49 109.2 75.1 139.5





#17

trans-1,2-Dichloroethene

Concen: 51.785 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

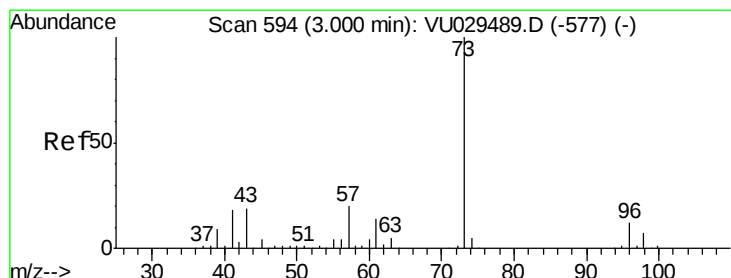
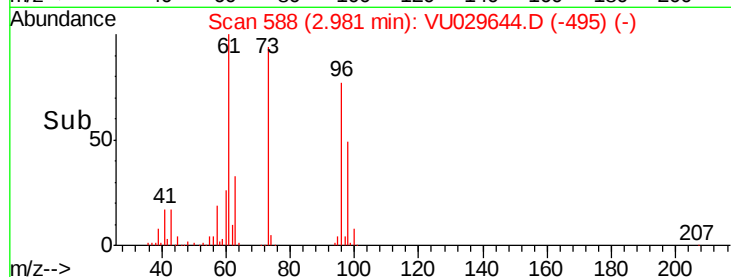
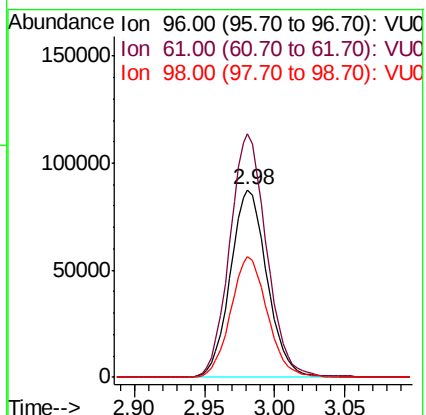
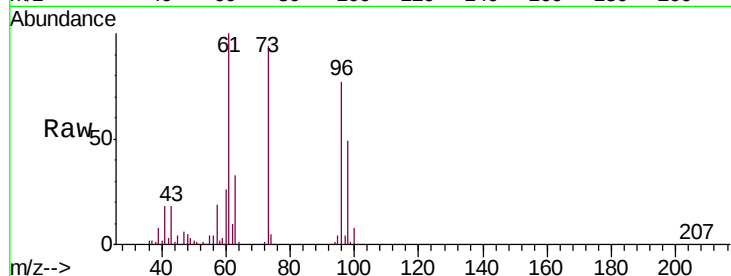
Tgt Ion: 96 Resp: 160014

Ion Ratio Lower Upper

96 100

61 129.8 88.3 163.9

98 64.2 44.8 83.2



#18

Methyl tert-butyl Ether

Concen: 50.791 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

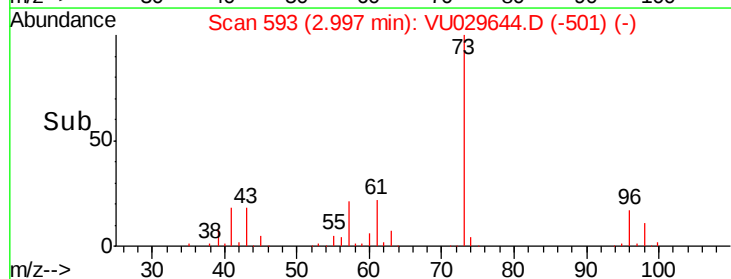
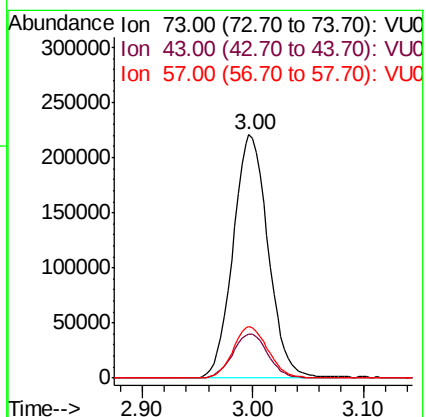
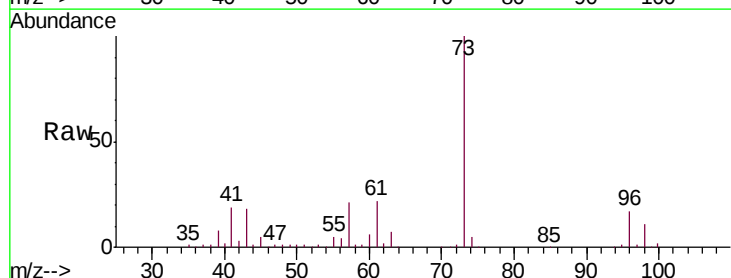
Tgt Ion: 73 Resp: 485892

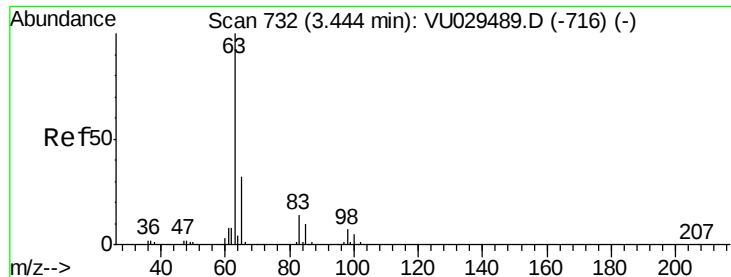
Ion Ratio Lower Upper

73 100

43 18.0 14.8 22.2

57 21.0 16.5 24.7





#19

1,1-Dichloroethane

Concen: 52.473 ug/L

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

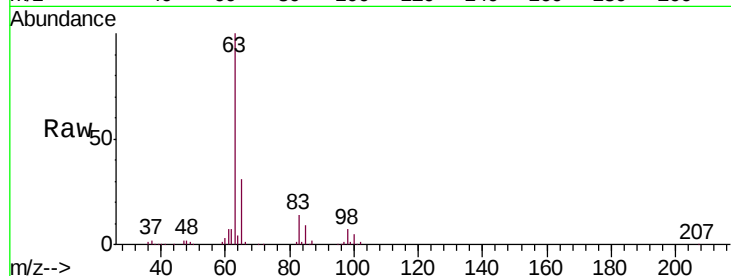
Tgt Ion: 63 Resp: 280365

Ion Ratio Lower Upper

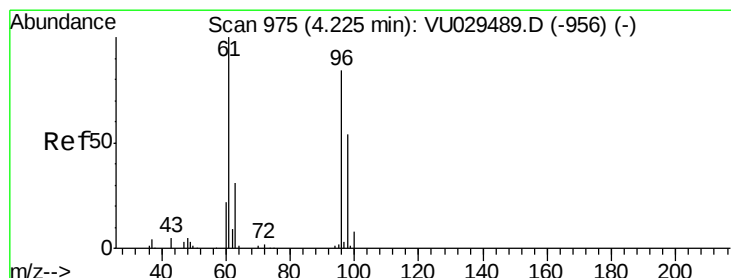
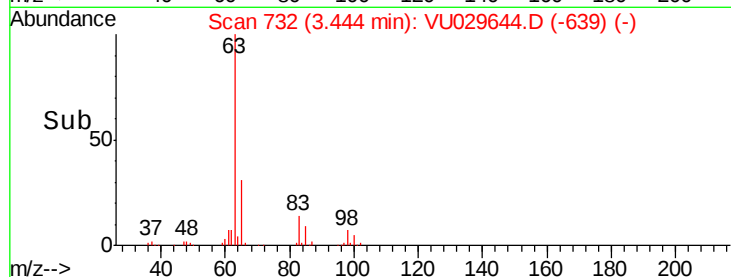
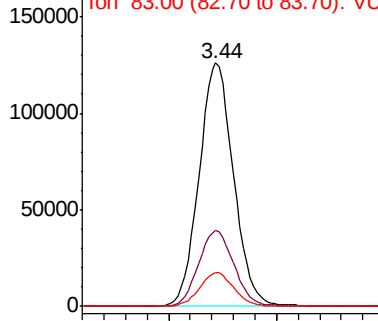
63 100

65 31.1 22.3 41.3

83 13.9 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 51.679 ug/L

RT: 4.22 min Scan# 975

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

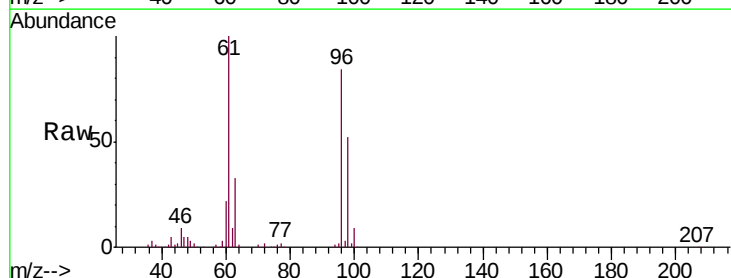
Tgt Ion: 96 Resp: 185551

Ion Ratio Lower Upper

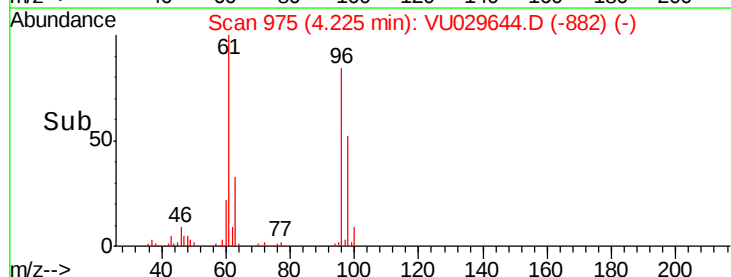
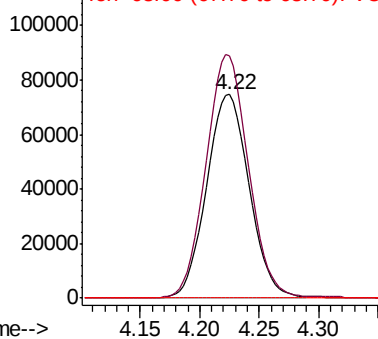
96 100

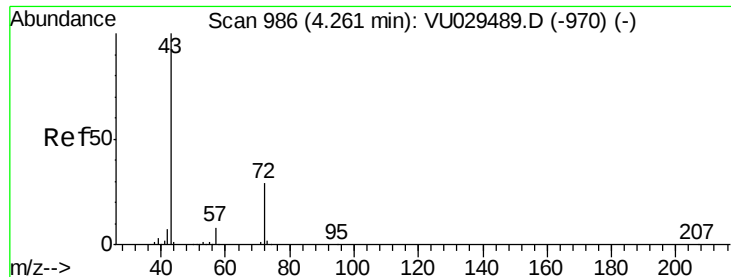
61 119.1 83.9 155.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 85.322 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

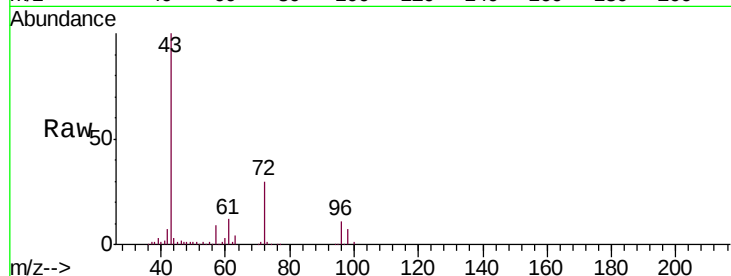
VSTD05055

Tgt Ion: 43 Resp: 234569

Ion Ratio Lower Upper

43 100

72 31.1 15.2 45.6



Abundance Ion 43.00 (42.70 to 43.70): VU029489.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU029489.D (-970) (-)

4.26

100000

80000

60000

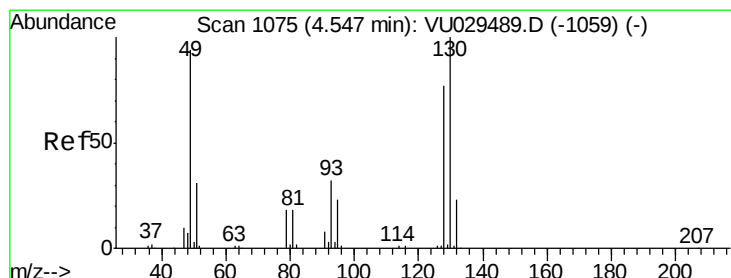
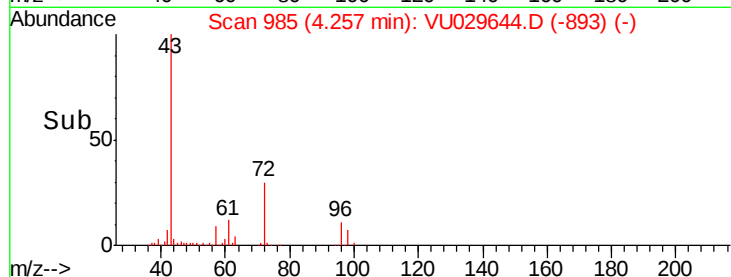
40000

20000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 49.357 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Tgt Ion: 128 Resp: 97147

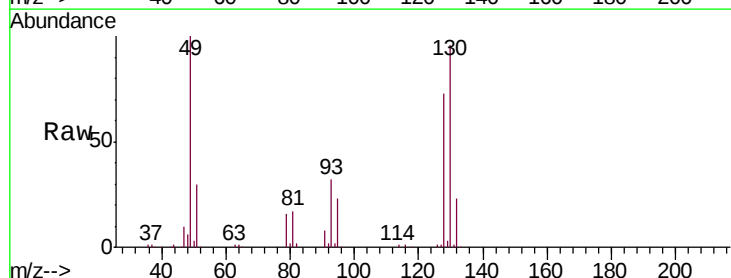
Ion Ratio Lower Upper

128 100

49 136.2 85.9 159.5

130 130.7 91.3 169.5

51 41.0 32.2 48.2



Abundance Ion 128.00 (127.70 to 128.70): VU029489.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU029489.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU029489.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU029489.D (-1059) (-)

80000

60000

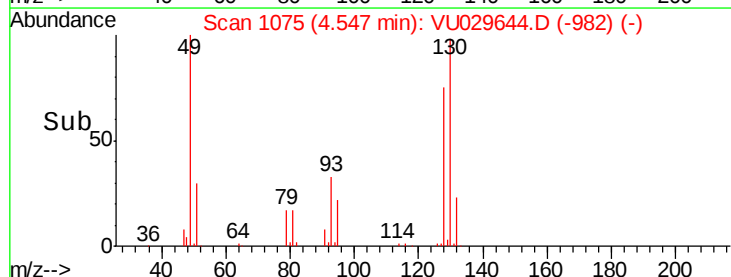
40000

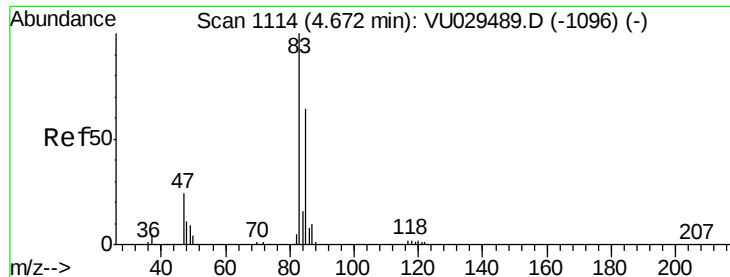
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 51.220 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

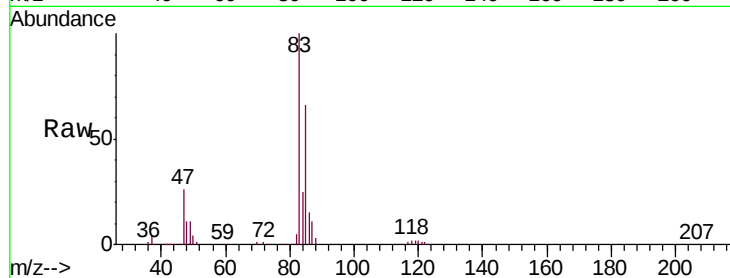
VSTD05055

Tgt Ion: 83 Resp: 305336

Ion Ratio Lower Upper

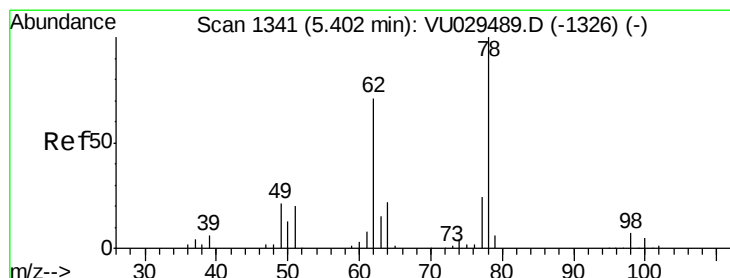
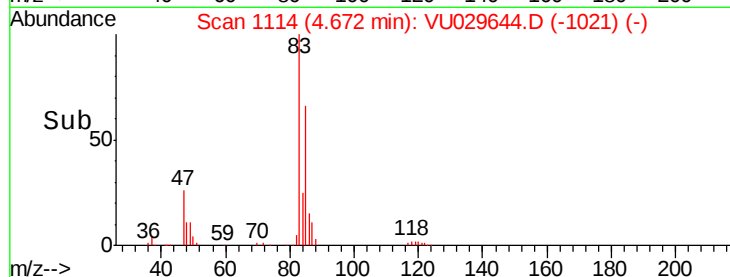
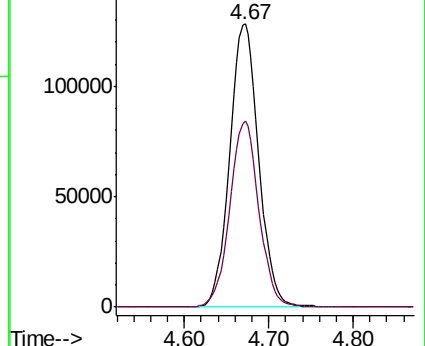
83 100

85 65.7 45.4 84.2



Abundance Ion 83.00 (82.70 to 83.70): VU029489.D (-1096) (-)

Ion 85.00 (84.70 to 85.70): VU029489.D (-1096) (-)



#27

1,2-Dichloroethane

Concen: 50.140 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU029644.D

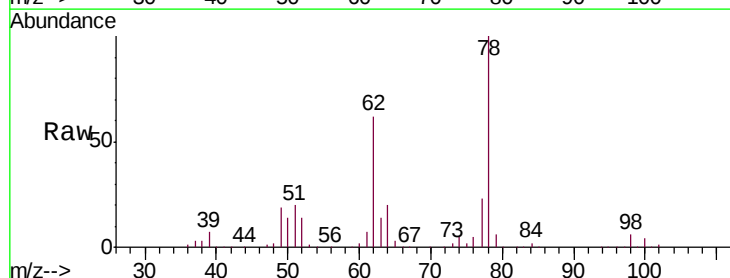
Acq: 23 Feb 2019 01:07

Tgt Ion: 62 Resp: 229808

Ion Ratio Lower Upper

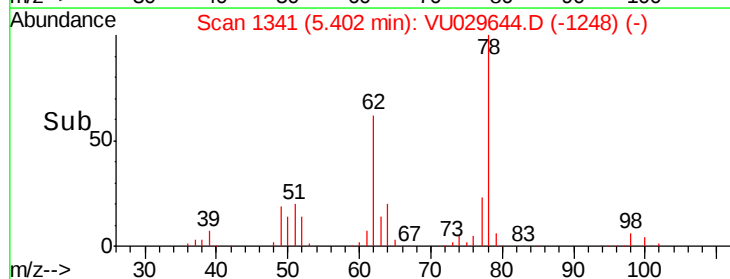
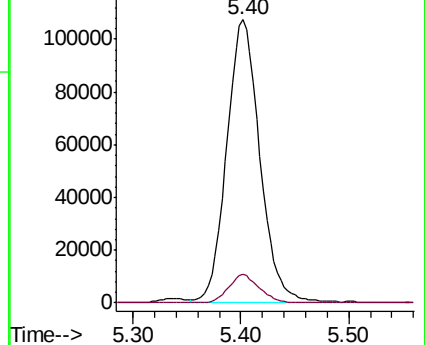
62 100

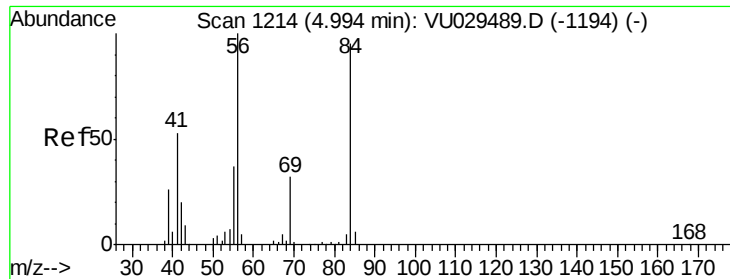
98 9.9 7.8 11.8



Abundance Ion 62.00 (61.70 to 62.70): VU029489.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU029489.D (-1326) (-)

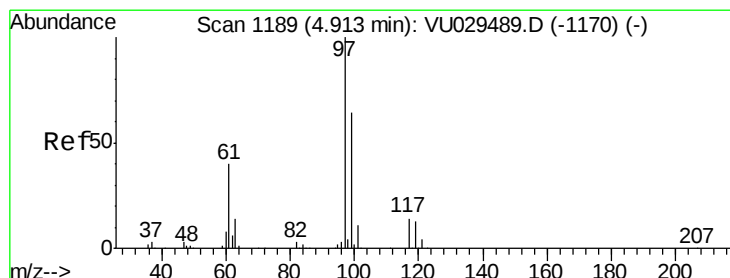
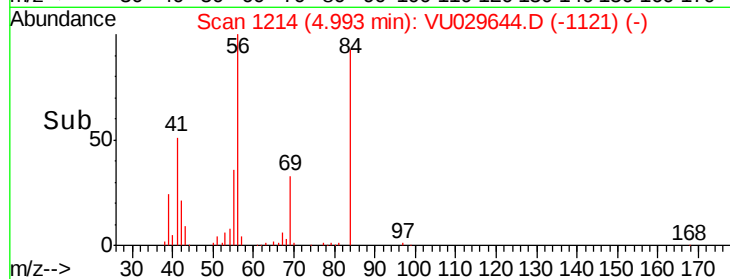
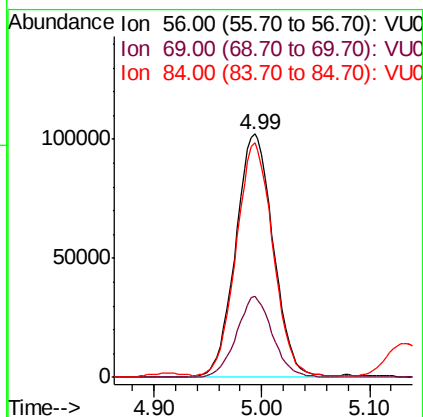
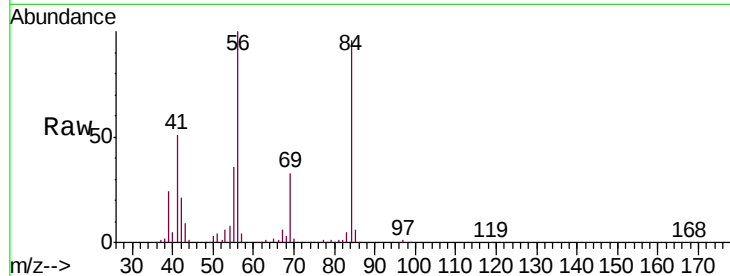




#29
Cyclohexane
Concen: 49.508 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU029644.D
Acq: 23 Feb 2019 01:07

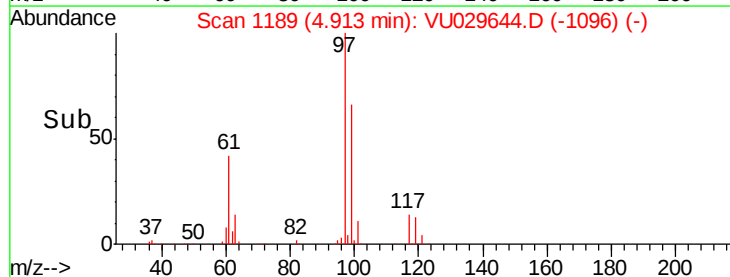
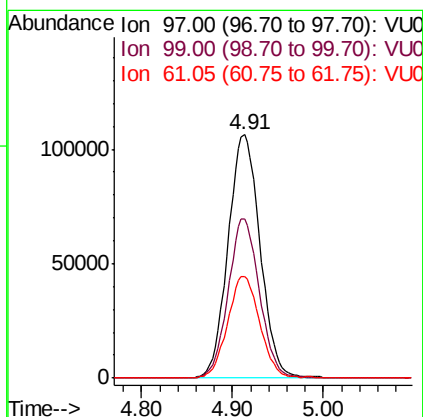
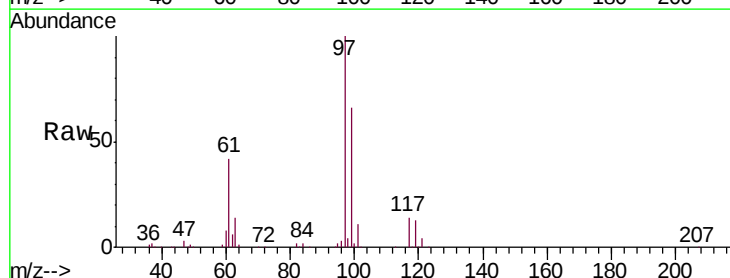
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

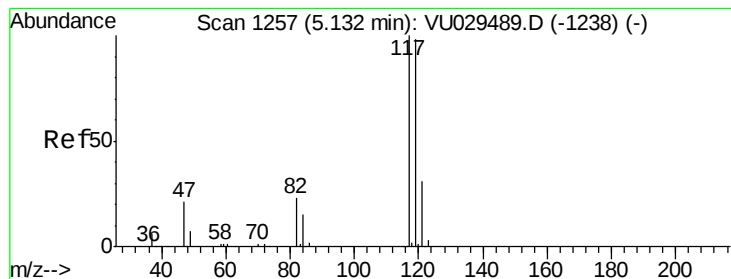
Tgt Ion: 56 Resp: 249001
Ion Ratio Lower Upper
56 100
69 31.6 25.7 38.5
84 93.3 77.1 115.7



#30
1,1,1-Trichloroethane
Concen: 48.344 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU029644.D
Acq: 23 Feb 2019 01:07

Tgt Ion: 97 Resp: 260512
Ion Ratio Lower Upper
97 100
99 63.9 51.4 77.0
61 41.9 32.3 48.5





#31

Carbon tetrachloride

Concen: 46.374 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

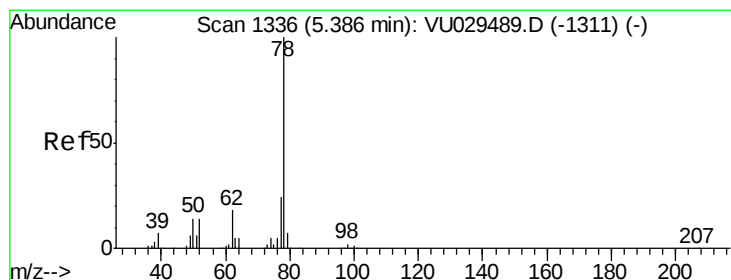
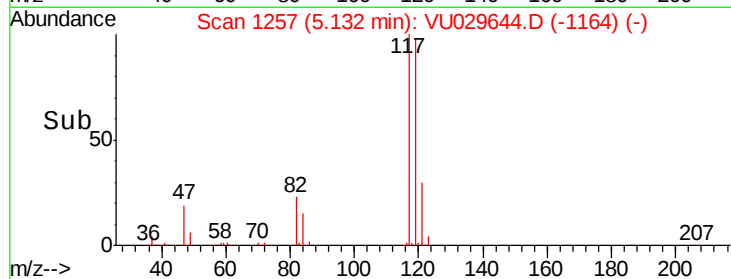
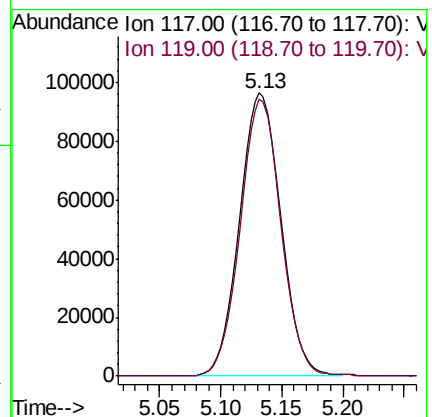
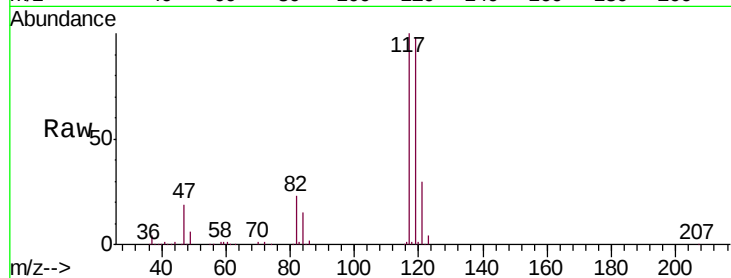
VSTD05055

Tgt Ion:117 Resp: 226184

Ion Ratio Lower Upper

117 100

119 96.2 77.8 116.8



#33

Benzene

Concen: 50.879 ug/L

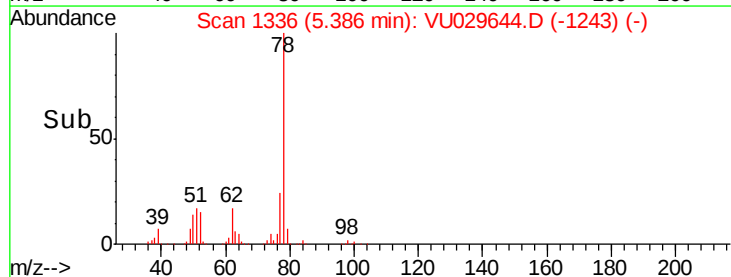
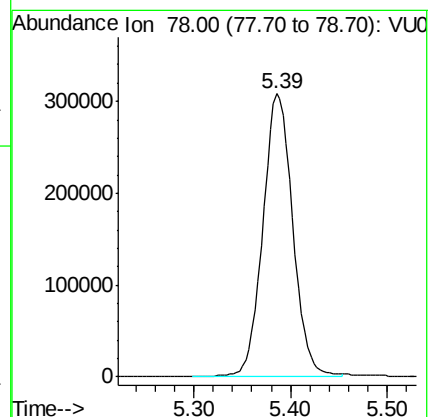
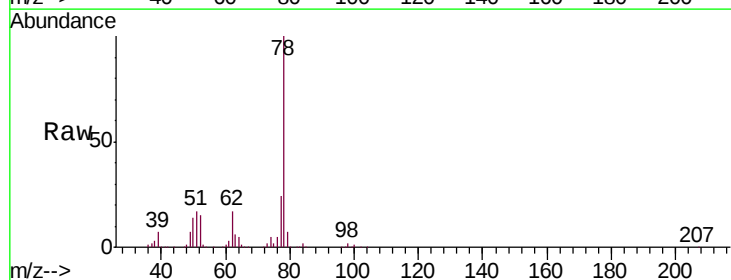
RT: 5.39 min Scan# 1336

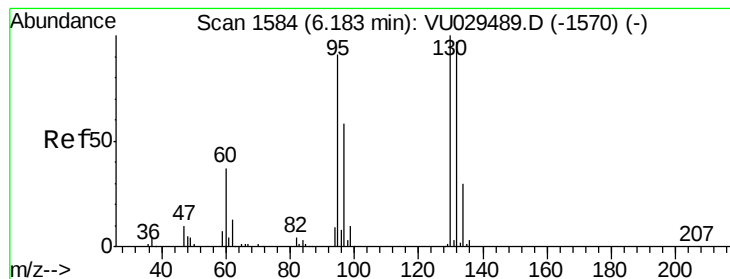
Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Tgt Ion: 78 Resp: 662963





#34

Trichloroethene

Concen: 50.358 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

Tgt Ion: 95 Resp: 176766

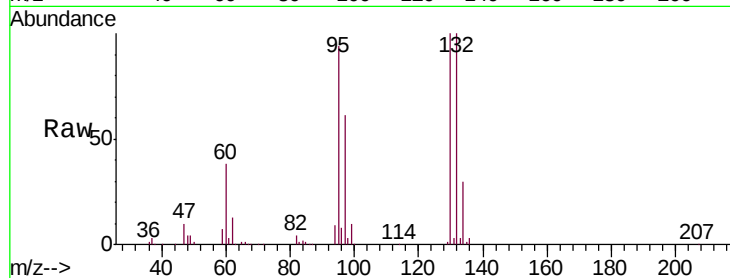
Ion Ratio Lower Upper

95 100

97 64.9 44.6 82.8

132 105.8 74.6 138.6

130 105.9 77.2 143.4

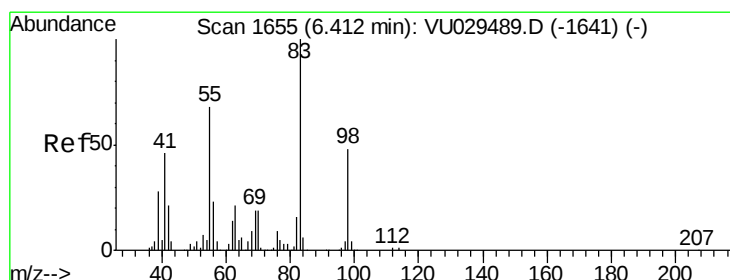
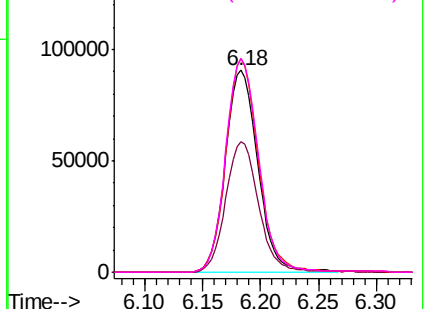
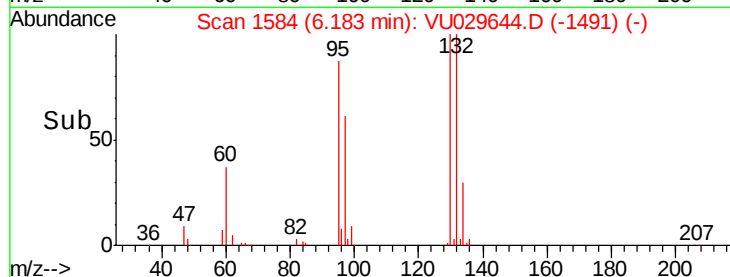


Abundance Ion 95.00 (94.70 to 95.70): VU029489.D (-1570) (-)

Ion 97.00 (96.70 to 97.70): VU029489.D (-1570) (-)

Ion 132.00 (131.70 to 132.70): VU029489.D (-1570) (-)

Ion 130.00 (129.70 to 130.70): VU029489.D (-1570) (-)



#35

Methylcyclohexane

Concen: 47.314 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

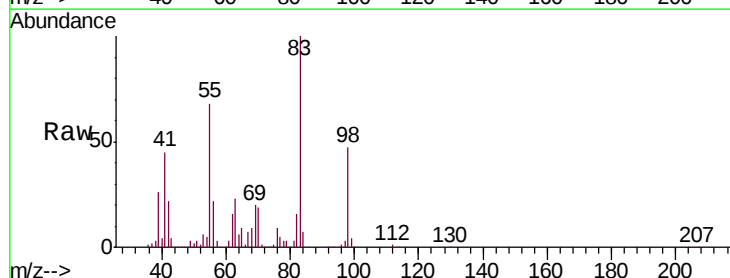
Tgt Ion: 83 Resp: 275811

Ion Ratio Lower Upper

83 100

55 70.2 55.2 82.8

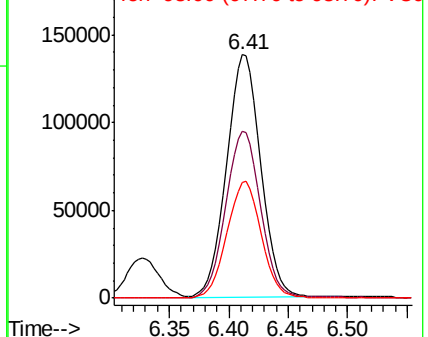
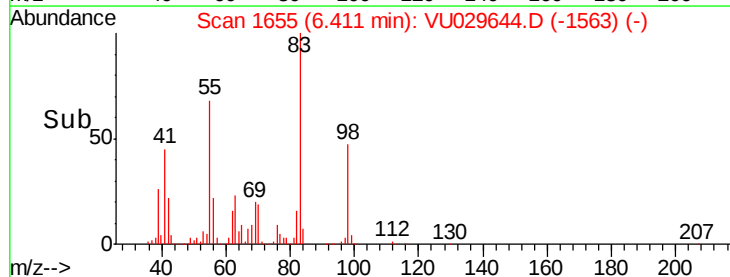
98 48.2 39.4 59.2

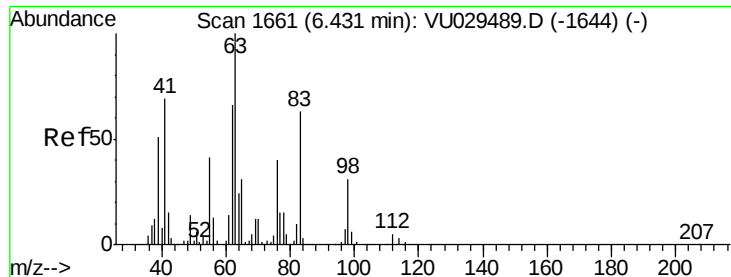


Abundance Ion 83.00 (82.70 to 83.70): VU029489.D (-1641) (-)

Ion 55.00 (54.70 to 55.70): VU029489.D (-1641) (-)

Ion 98.00 (97.70 to 98.70): VU029489.D (-1641) (-)





#37

1,2-Dichloropropane

Concen: 50.404 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

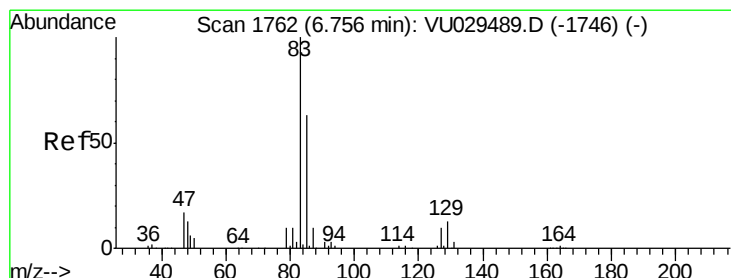
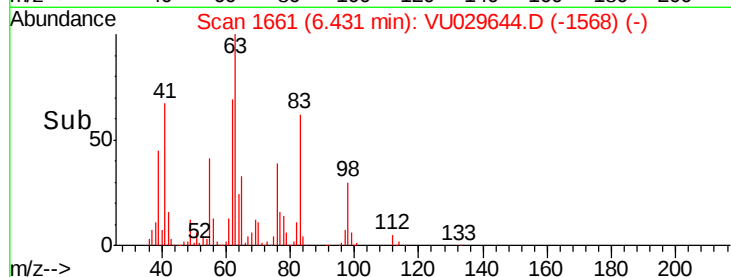
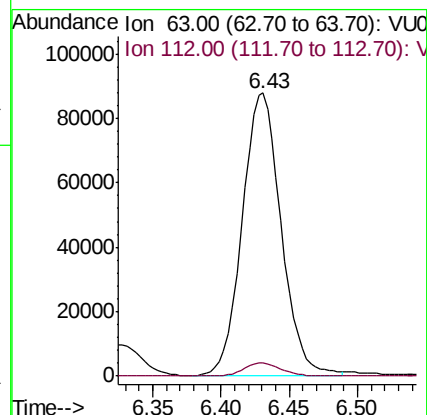
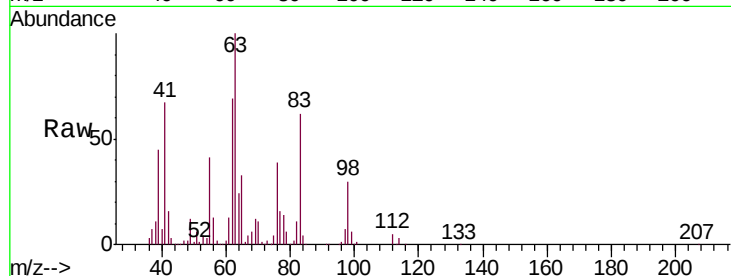
VSTD05055

Tgt Ion: 63 Resp: 172406

Ion Ratio Lower Upper

63 100

112 4.6 3.6 5.4



#38

Bromodichloromethane

Concen: 48.288 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

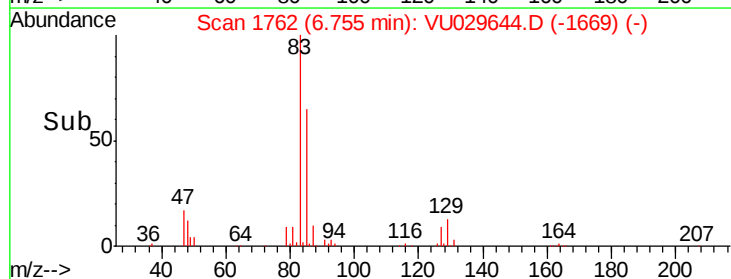
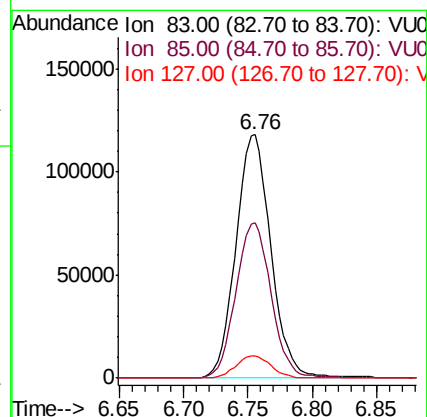
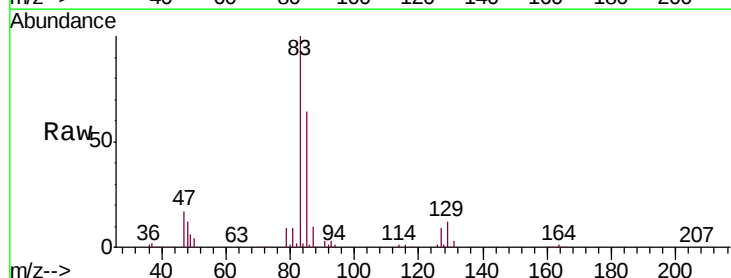
Tgt Ion: 83 Resp: 222671

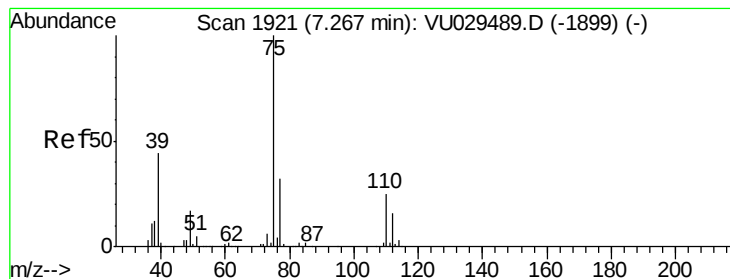
Ion Ratio Lower Upper

83 100

85 63.8 44.2 82.0

127 9.3 8.3 12.5



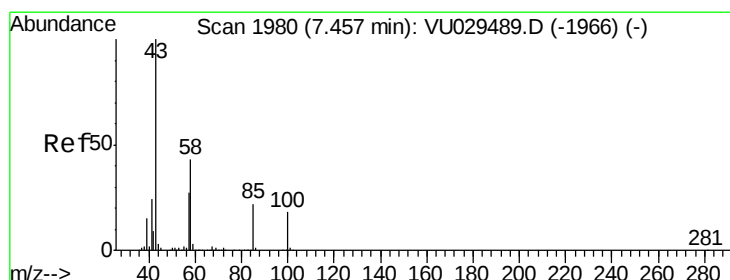
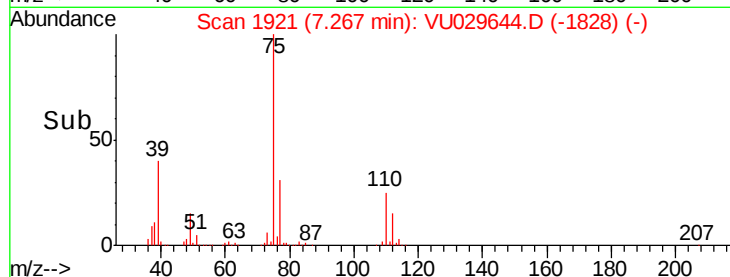
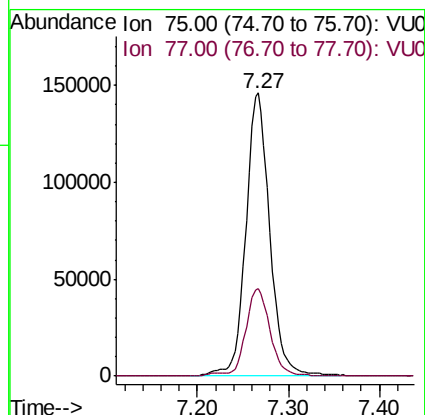
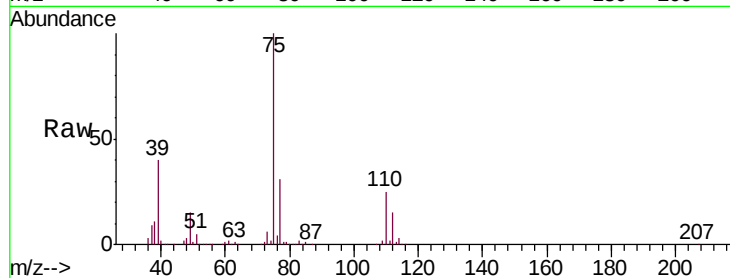


#39

cis-1,3-Dichloropropene
 Concen: 48.373 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

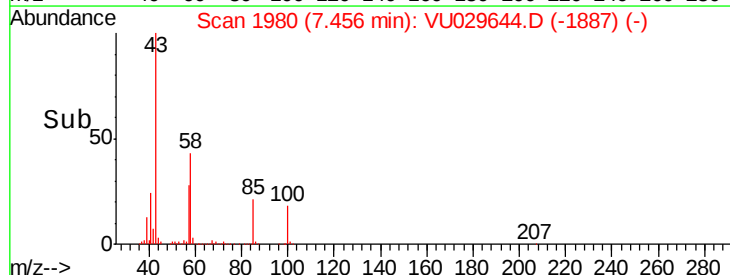
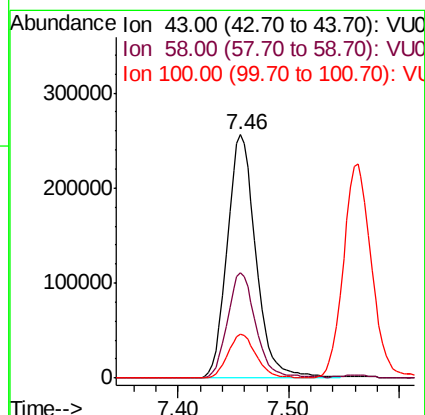
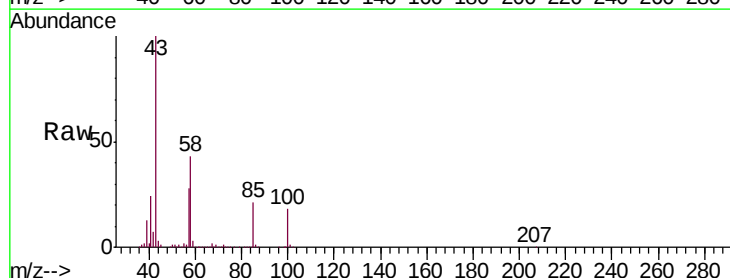
Tgt Ion: 75 Resp: 266953
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.3 41.5

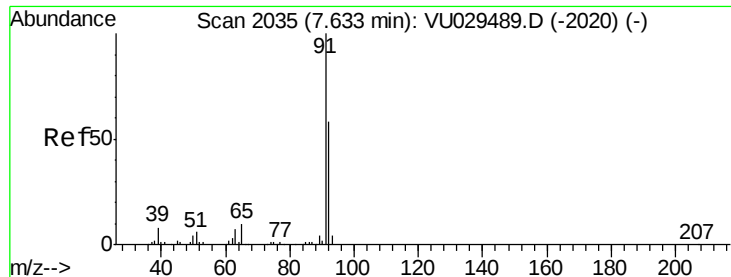


#40

4-Methyl-2-pentanone
 Concen: 96.037 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

Tgt Ion: 43 Resp: 461934
 Ion Ratio Lower Upper
 43 100
 58 42.9 33.0 49.4
 100 17.9 14.5 21.7





#42

Toluene

Concen: 49.131 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

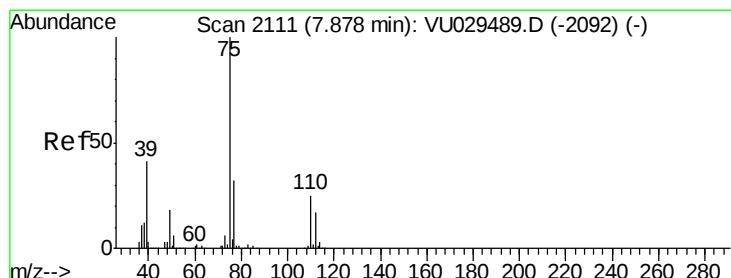
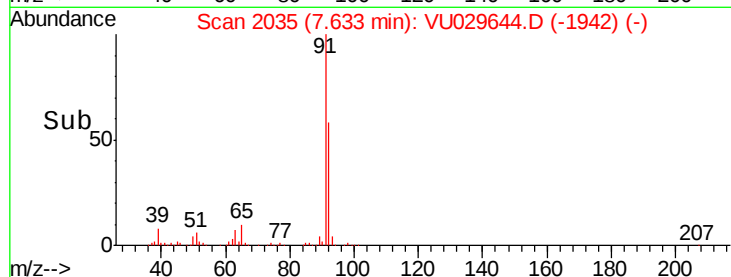
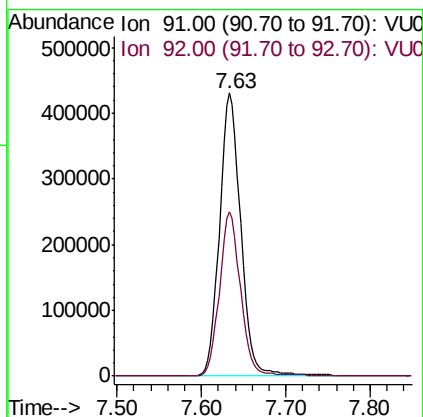
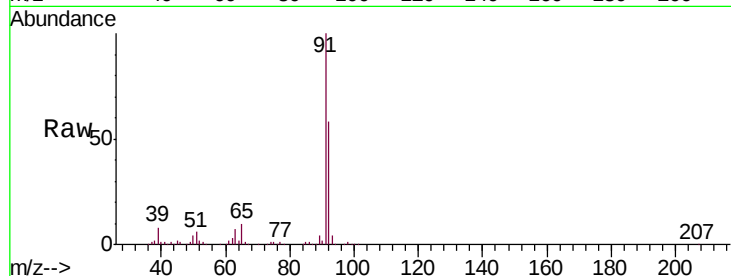
VSTD05055

Tgt Ion: 91 Resp: 757082

Ion Ratio Lower Upper

91 100

92 58.2 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 46.067 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU029644.D

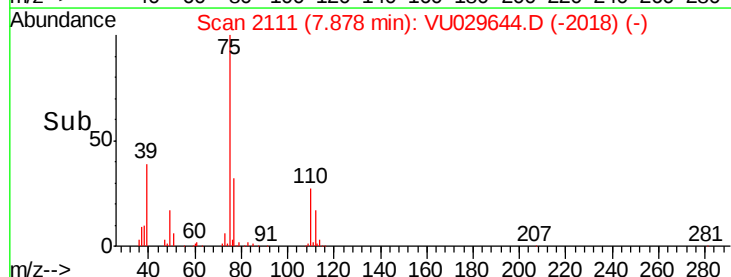
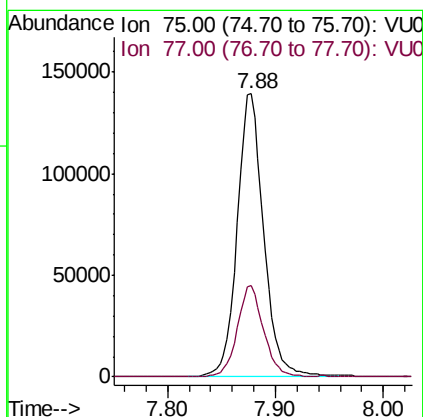
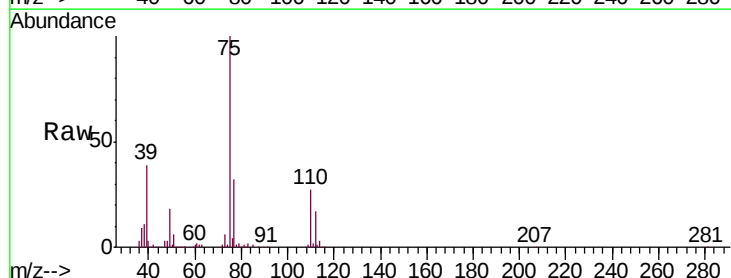
Acq: 23 Feb 2019 01:07

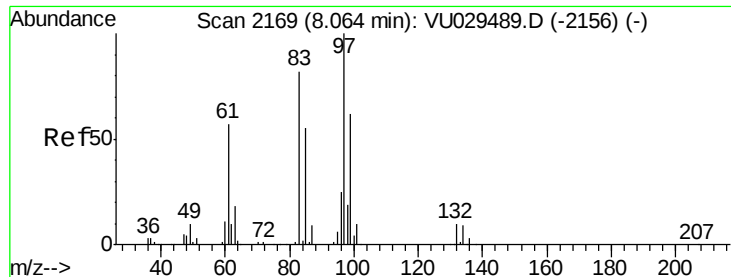
Tgt Ion: 75 Resp: 239592

Ion Ratio Lower Upper

75 100

77 32.3 22.1 41.1

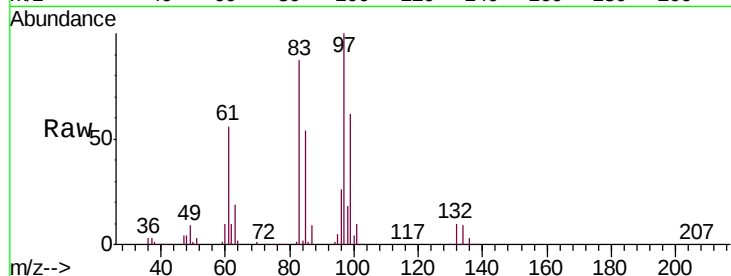




#45
 1,1,2-Trichloroethane
 Concen: 48.793 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Tgt Ion:	97	Resp:	177890
Ion	Ratio	Lower	Upper
97	100		
99	62.2	43.8	81.3
83	87.5	57.7	107.1
85	53.5	38.5	71.5



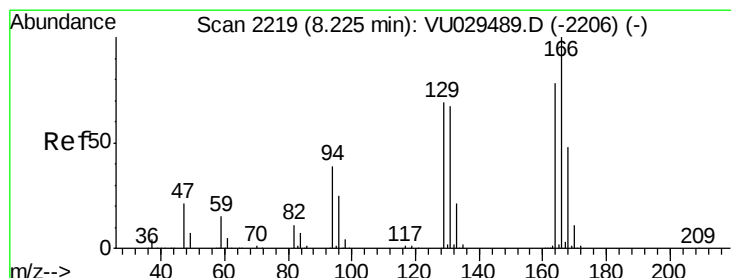
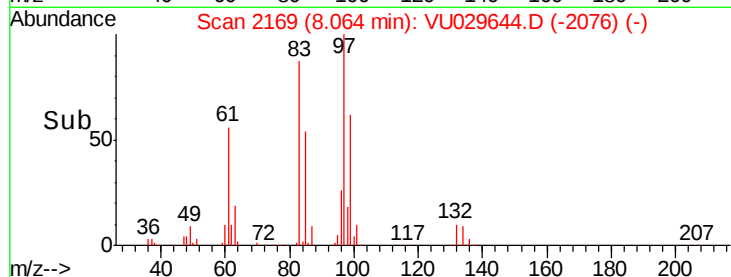
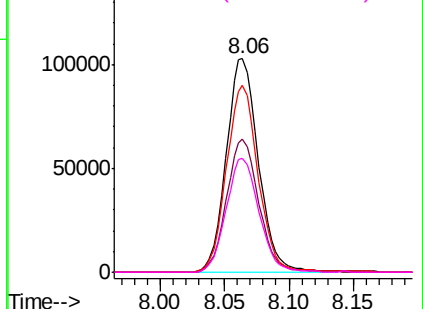
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

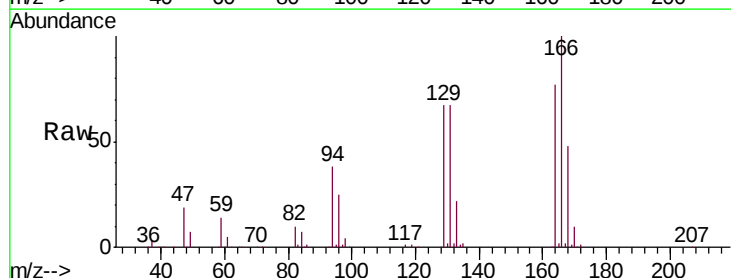
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 46.363 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

Tgt Ion:	164	Resp:	159289
Ion	Ratio	Lower	Upper
164	100		
129	87.0	62.1	115.3
131	86.5	60.1	111.5
166	129.2	89.7	166.5



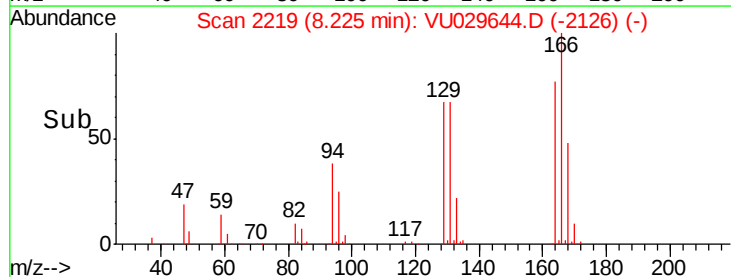
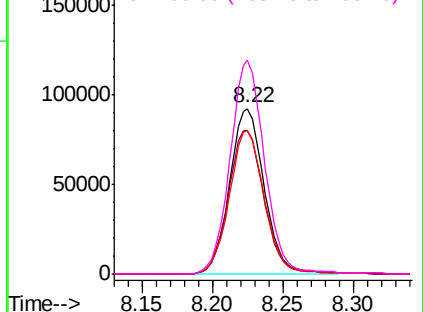
Abundance

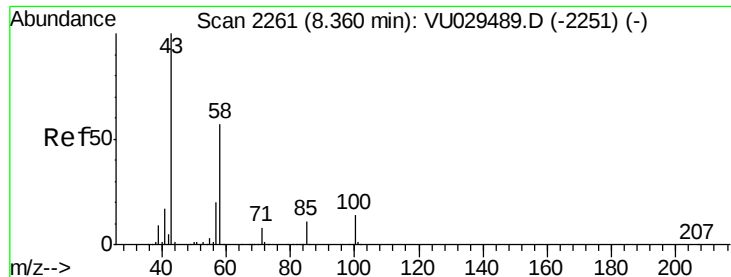
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

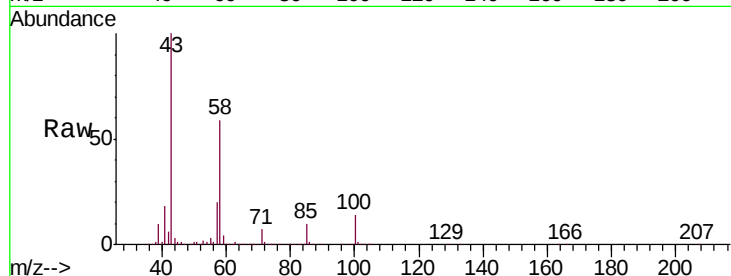




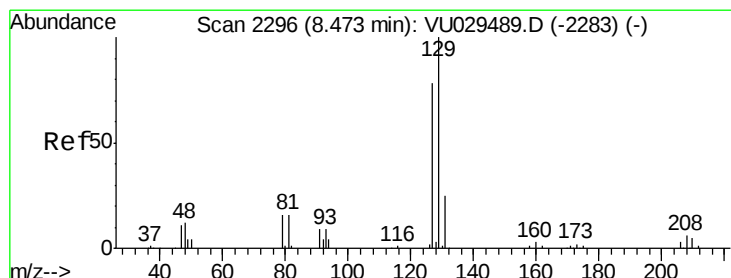
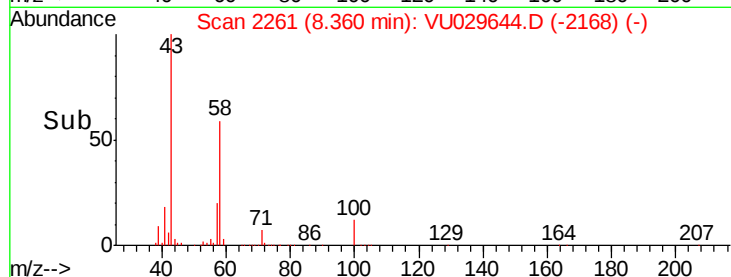
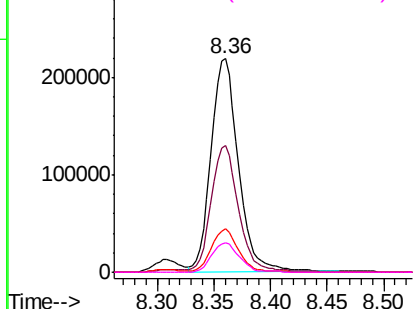
#48
2-Hexanone
Concen: 87.490 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU029644.D
Acq: 23 Feb 2019 01:07

Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

Tgt Ion: 43 Resp: 367619
Ion Ratio Lower Upper
43 100
58 59.9 46.4 69.6
57 19.8 15.7 23.5
100 14.2 10.9 16.3

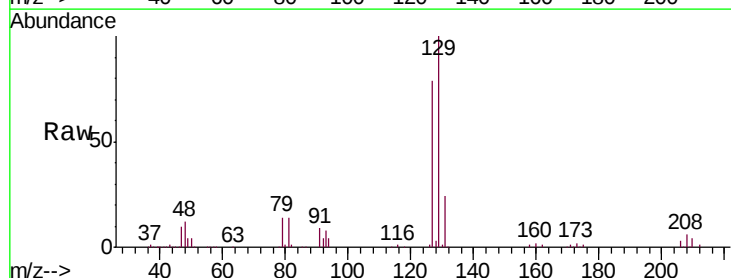


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

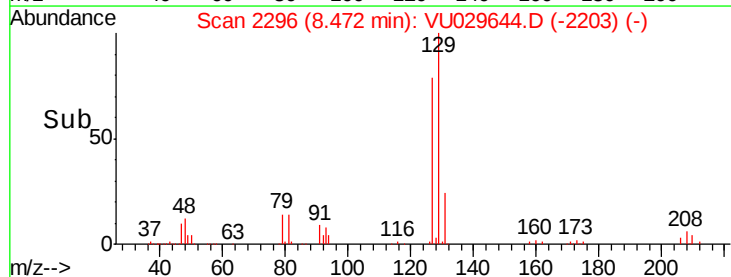
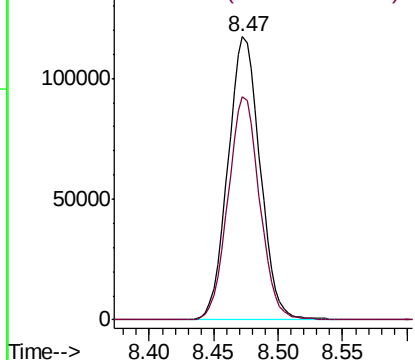


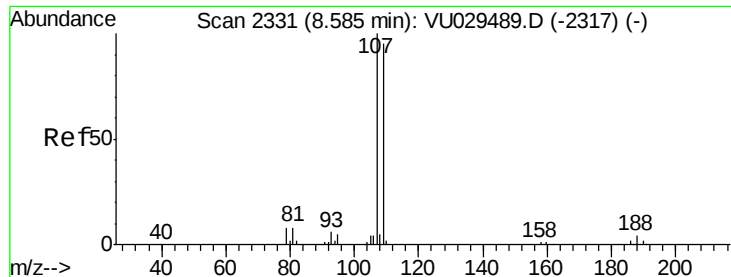
#49
Dibromochloromethane
Concen: 46.036 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU029644.D
Acq: 23 Feb 2019 01:07

Tgt Ion: 129 Resp: 203472
Ion Ratio Lower Upper
129 100
127 78.7 54.4 101.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

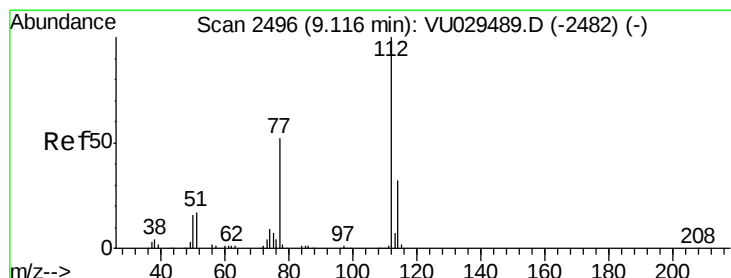
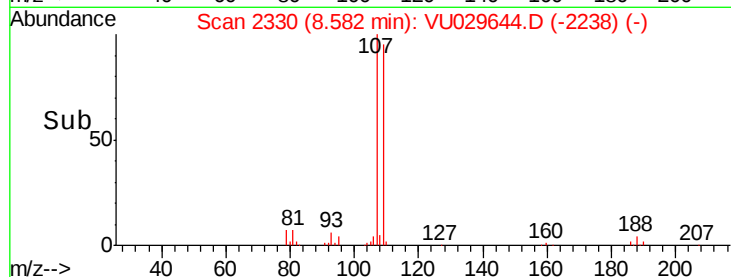
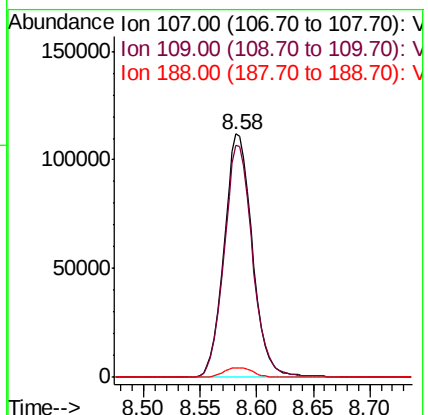
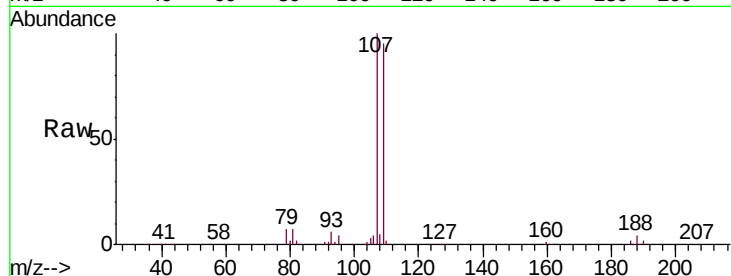




#50
1,2-Dibromoethane
Concen: 48.370 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU029644.D
Acq: 23 Feb 2019 01:07

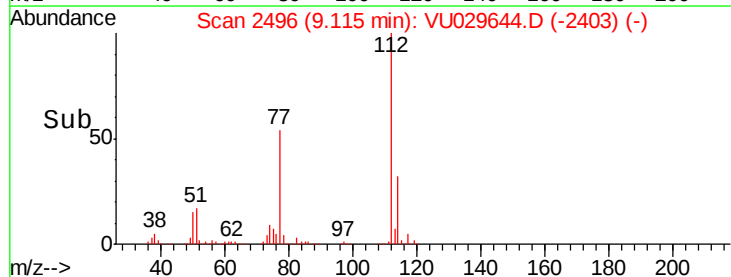
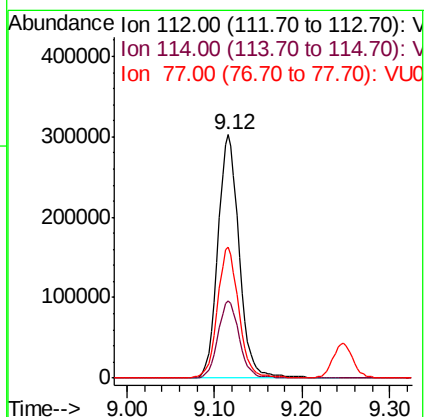
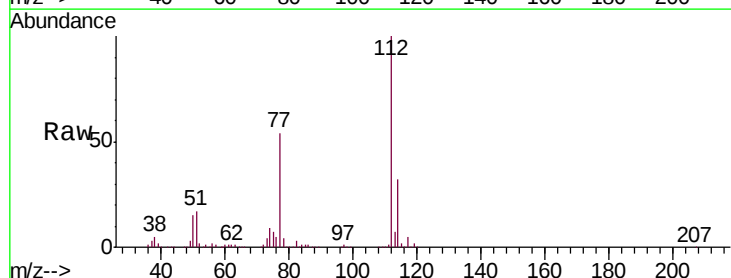
Instrument :
MSVOA_U
ClientSampleId :
VSTD05055

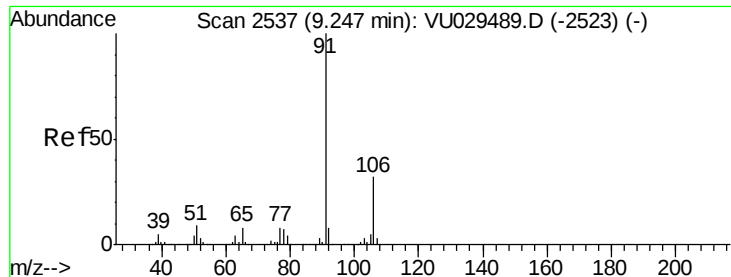
Tgt Ion:107 Resp: 195382
Ion Ratio Lower Upper
107 100
109 95.3 66.4 123.4
188 4.1 3.5 5.3



#51
Chlorobenzene
Concen: 48.310 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU029644.D
Acq: 23 Feb 2019 01:07

Tgt Ion:112 Resp: 510944
Ion Ratio Lower Upper
112 100
114 31.9 22.7 42.1
77 54.0 42.1 63.1





#52

Ethylbenzene

Concen: 47.976 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

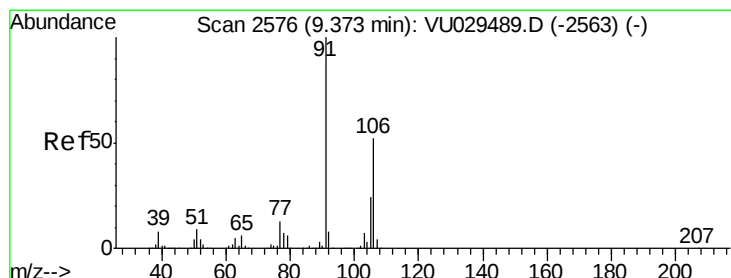
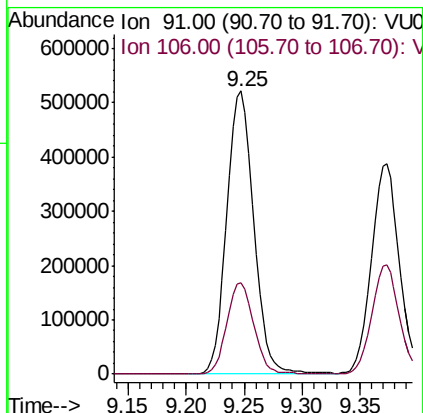
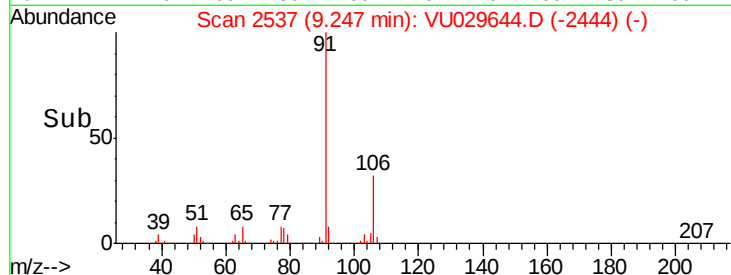
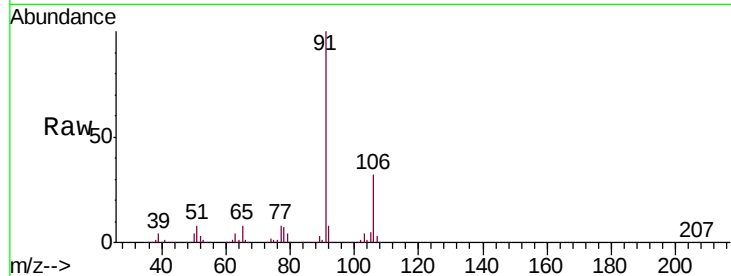
VSTD05055

Tgt Ion: 91 Resp: 839631

Ion Ratio Lower Upper

91 100

106 32.5 22.7 42.1



#53

m,p-Xylene

Concen: 47.160 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029644.D

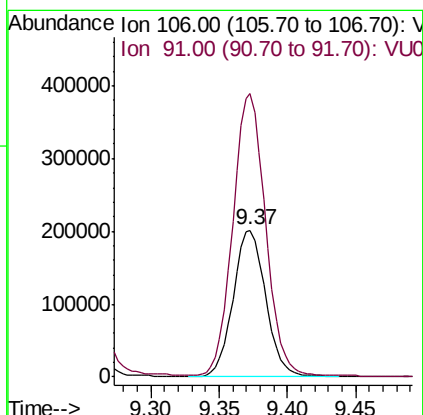
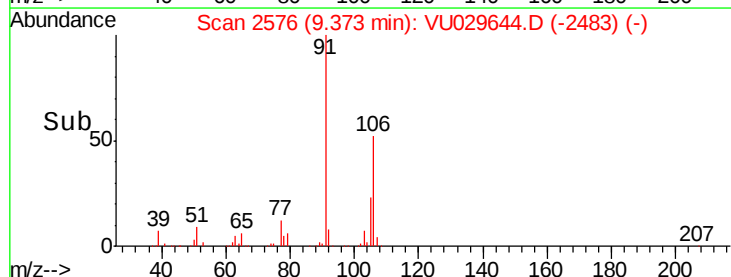
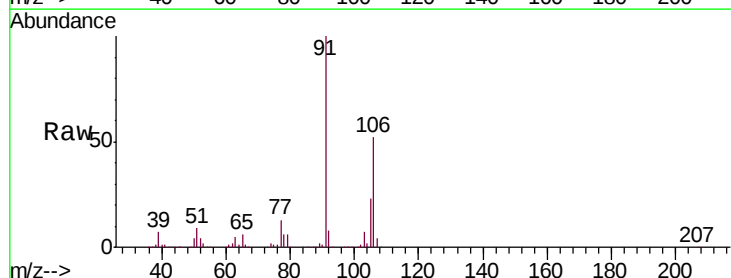
Acq: 23 Feb 2019 01:07

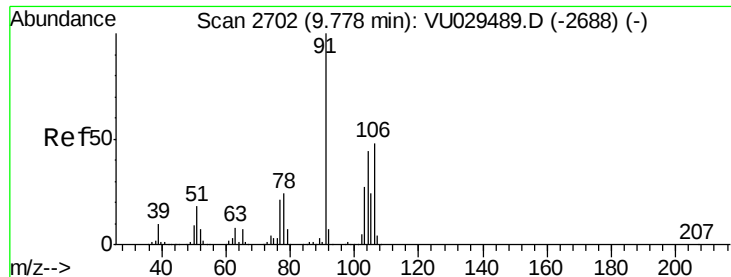
Tgt Ion: 106 Resp: 331308

Ion Ratio Lower Upper

106 100

91 193.0 135.3 251.3





#54

o-xylene

Concen: 47.261 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

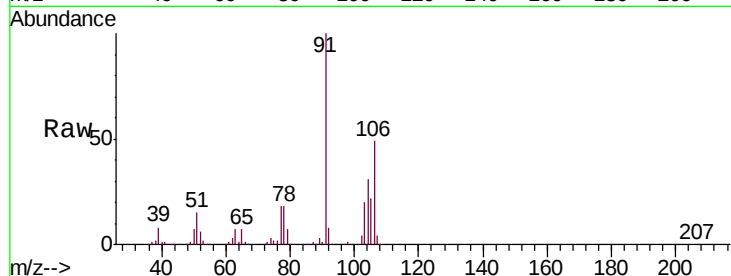
VSTD05055

Tgt Ion:106 Resp: 333503

Ion Ratio Lower Upper

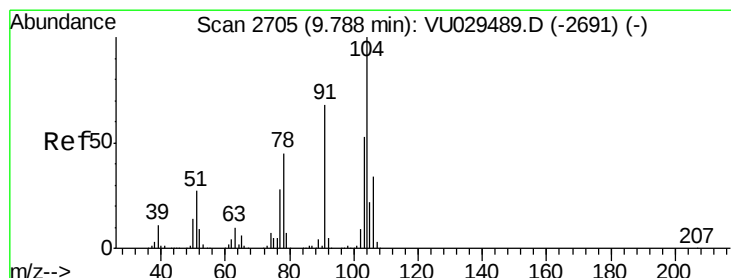
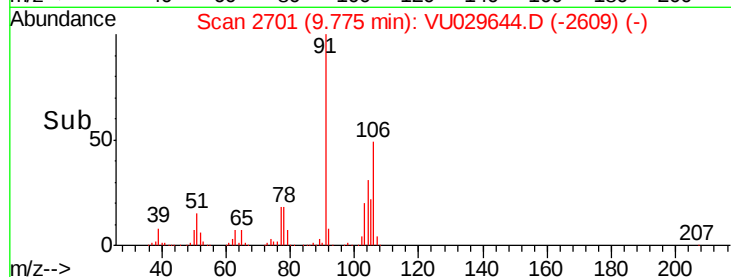
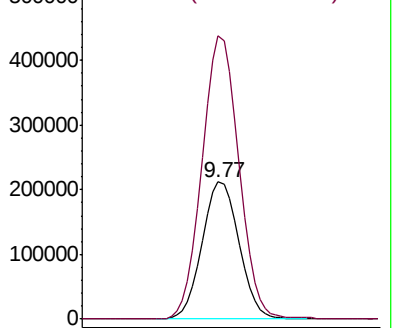
106 100

91 206.0 144.5 268.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 47.219 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU029644.D

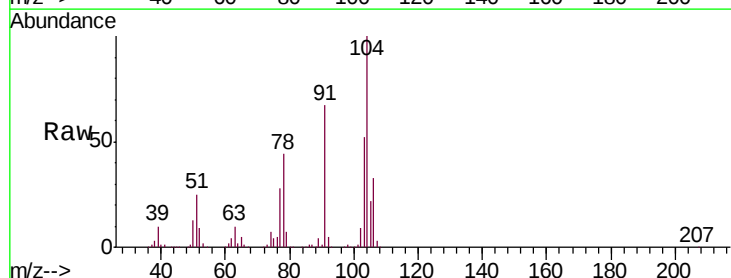
Acq: 23 Feb 2019 01:07

Tgt Ion:104 Resp: 562497

Ion Ratio Lower Upper

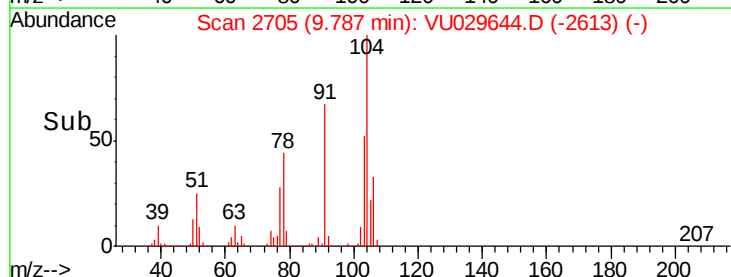
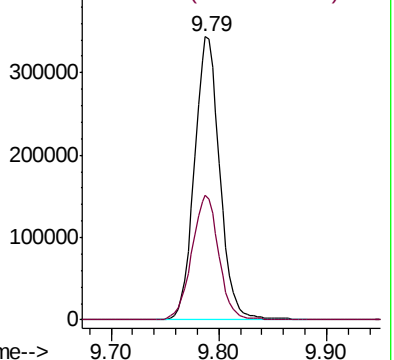
104 100

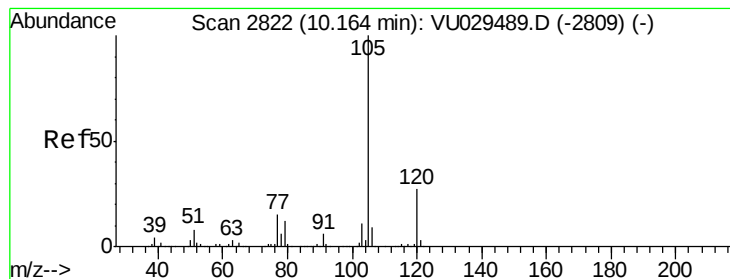
78 44.1 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 46.784 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

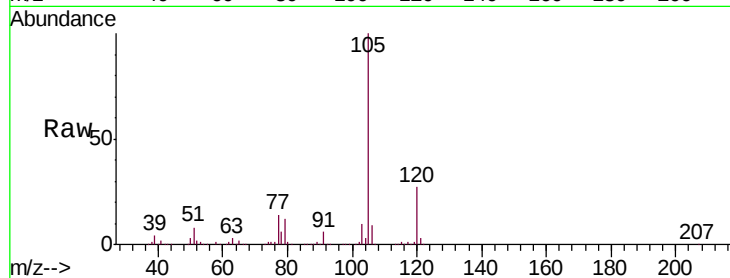
Tgt Ion: 105 Resp: 863892

Ion Ratio Lower Upper

105 100

120 27.2 21.9 32.9

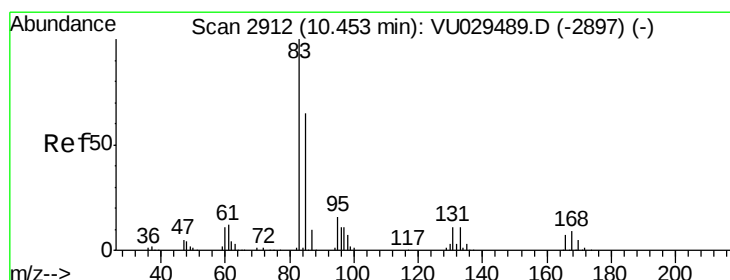
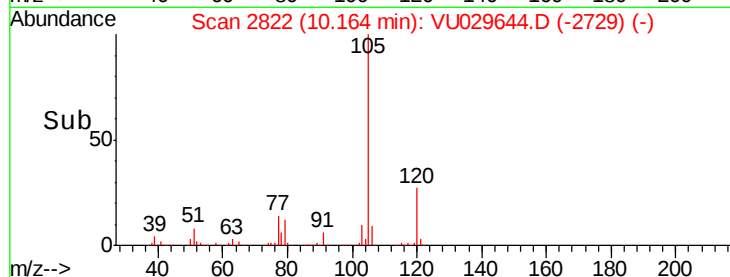
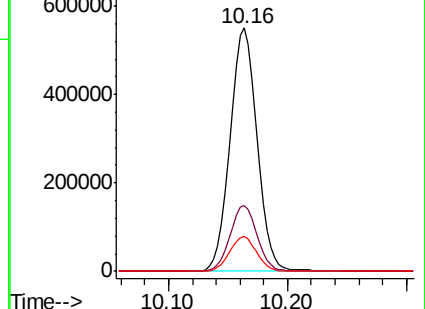
77 14.3 11.7 17.5



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 47.420 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

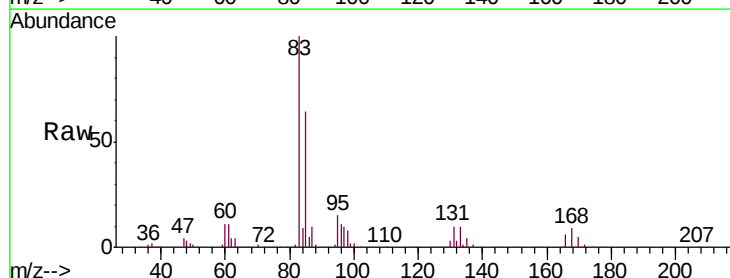
Tgt Ion: 83 Resp: 305712

Ion Ratio Lower Upper

83 100

85 64.4 45.5 84.5

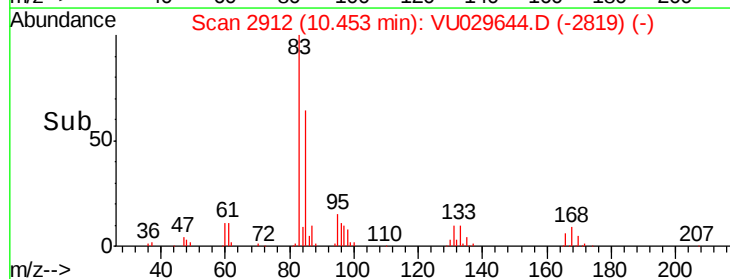
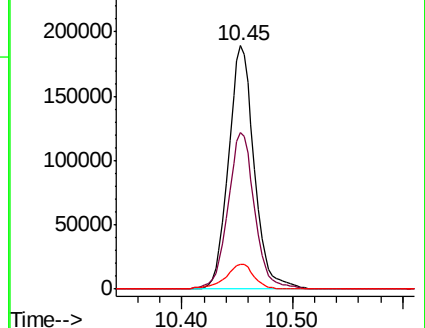
131 10.3 8.6 12.8

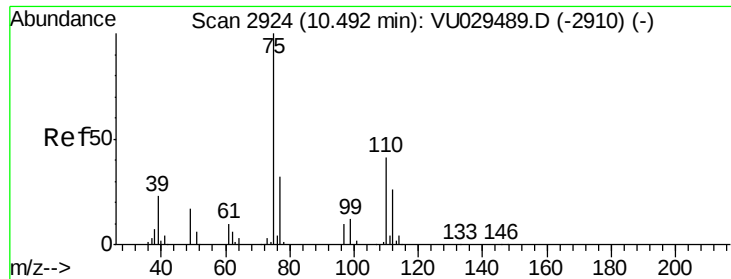


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

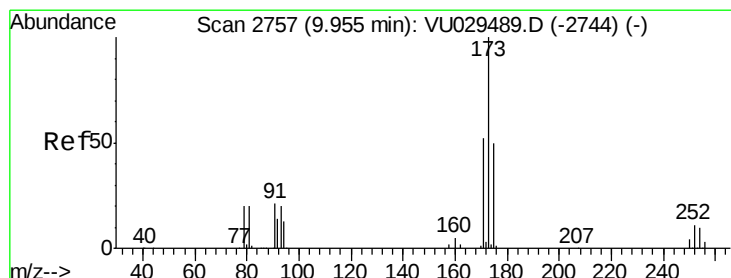
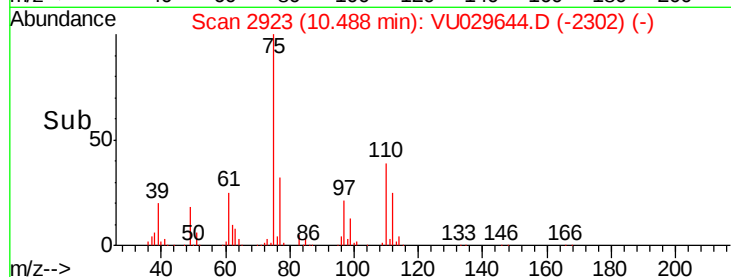
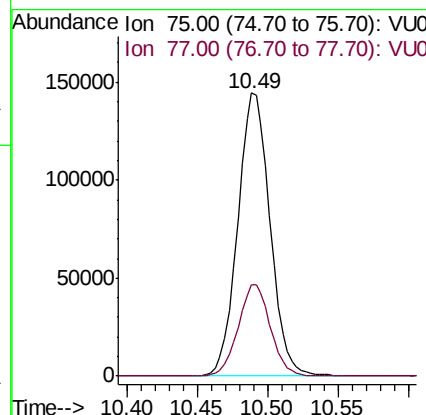
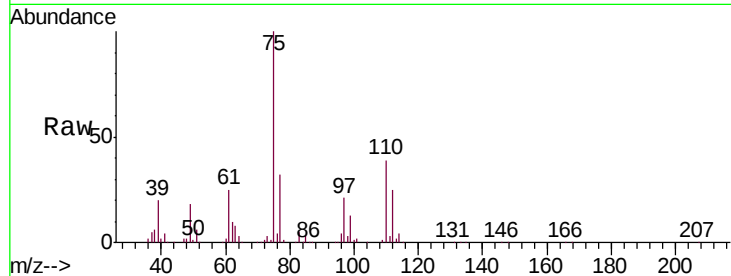




#59
 1,2,3-Trichloropropane
 Concen: 47.597 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

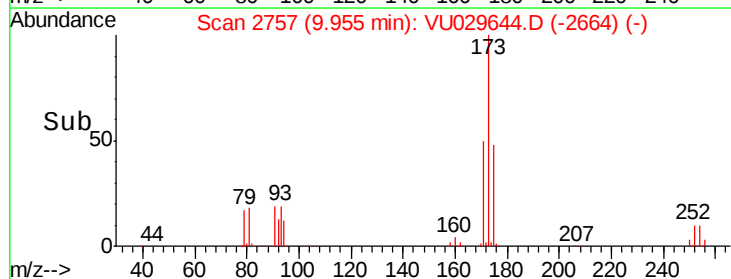
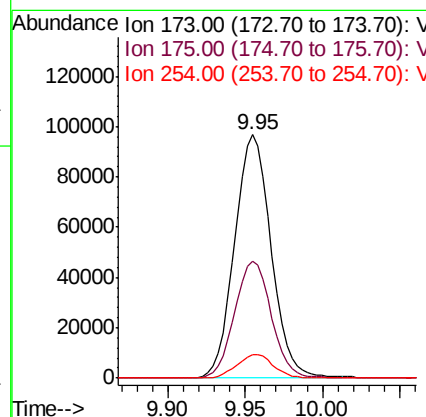
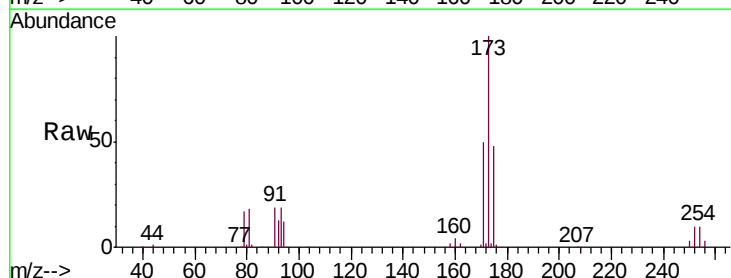
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

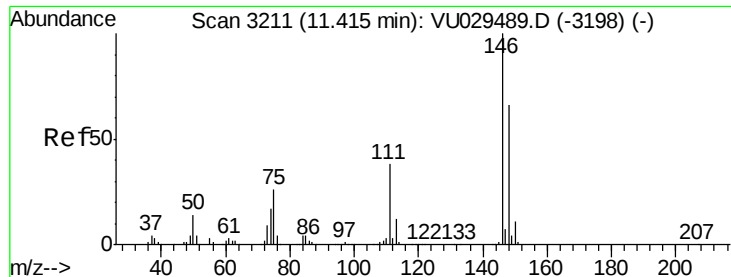
Tgt Ion: 75 Resp: 232129
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.7 38.5



#61
 Bromoform
 Concen: 42.679 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

Tgt Ion: 173 Resp: 158514
 Ion Ratio Lower Upper
 173 100
 175 48.5 39.0 58.4
 254 9.6 8.1 12.1





#62

1,3-Dichlorobenzene

Concen: 47.848 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

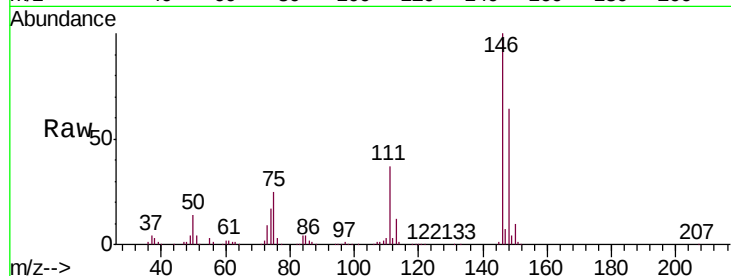
Tgt Ion:146 Resp: 420749

Ion Ratio Lower Upper

146 100

111 37.4 26.7 49.5

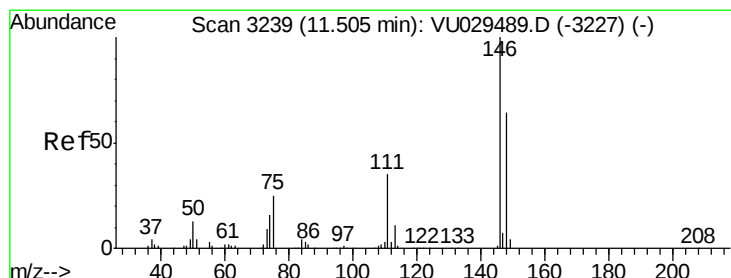
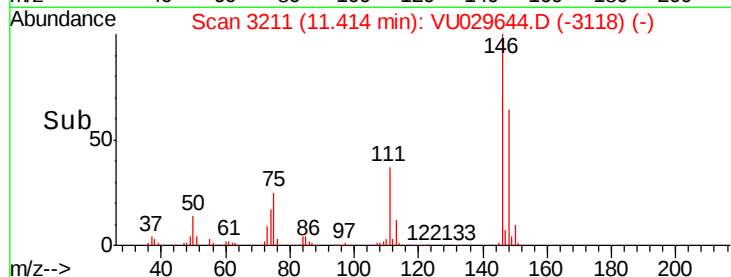
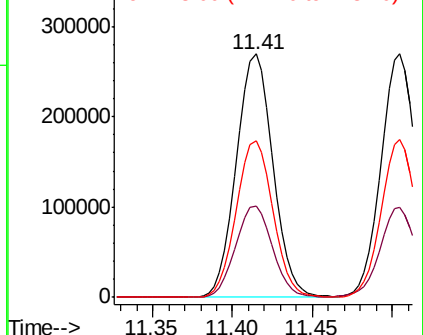
148 64.2 45.9 85.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.981 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

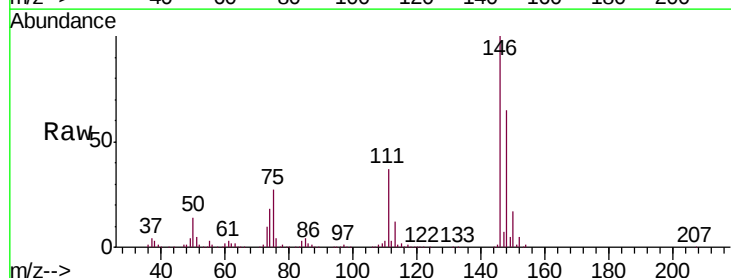
Tgt Ion:146 Resp: 424601

Ion Ratio Lower Upper

146 100

111 36.7 25.1 46.5

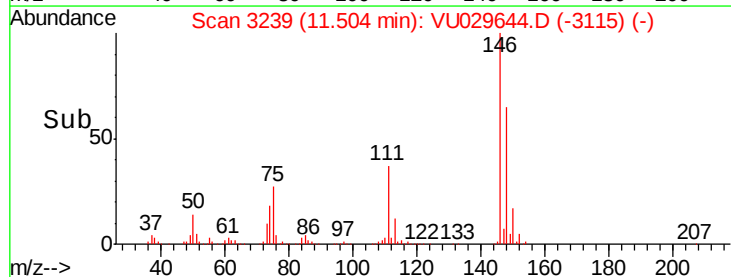
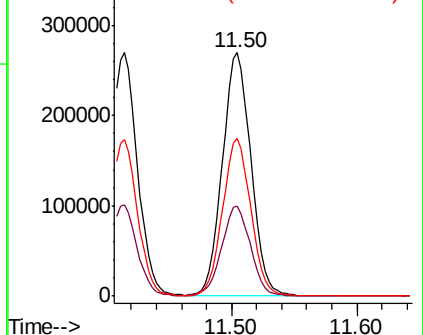
148 65.0 45.0 83.6

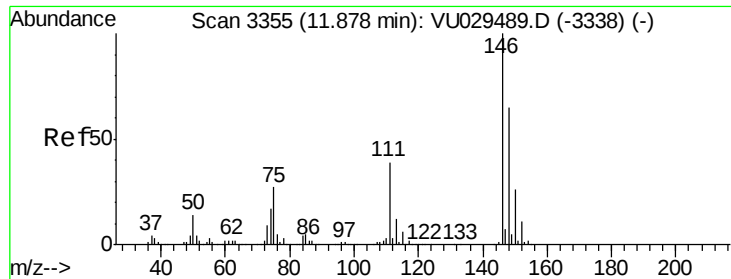


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

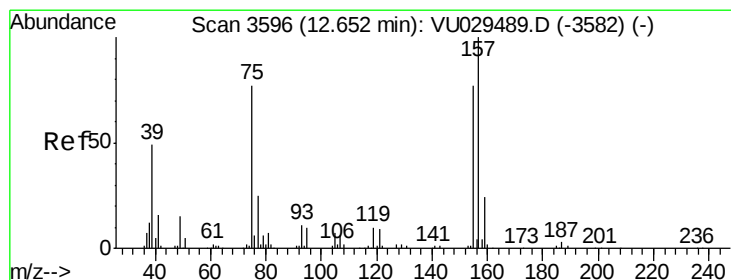
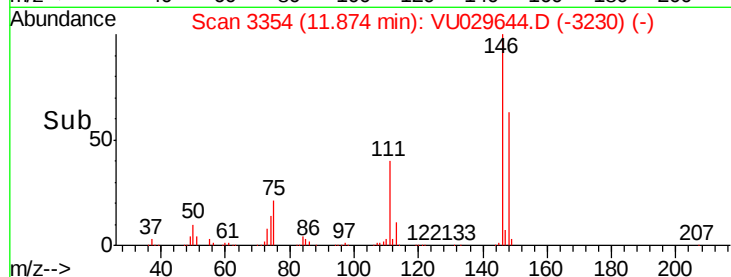
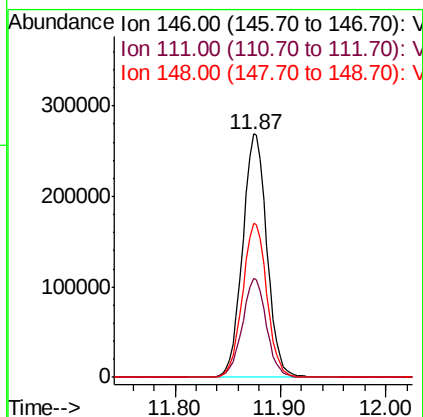
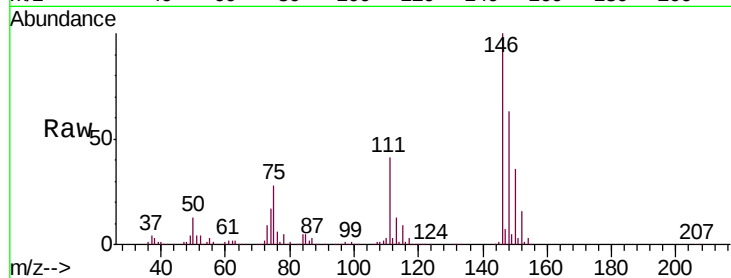




#65
 1,2-Dichlorobenzene
 Concen: 46.845 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

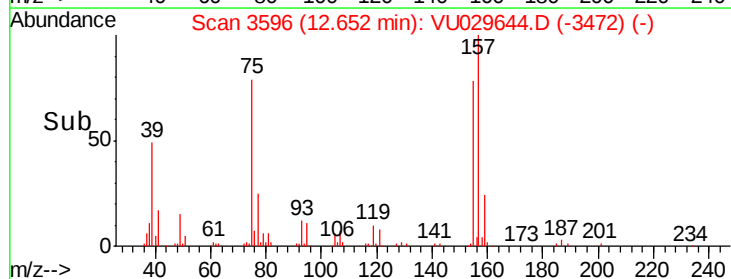
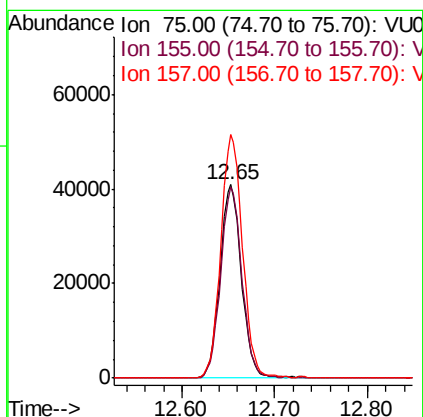
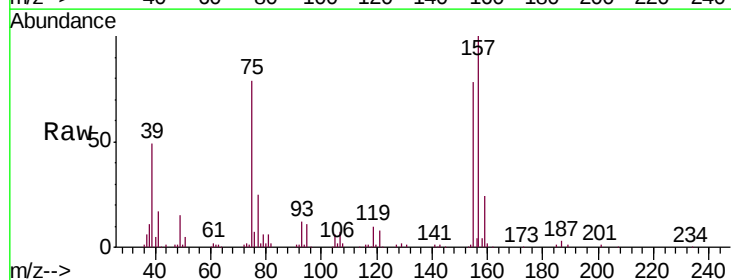
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

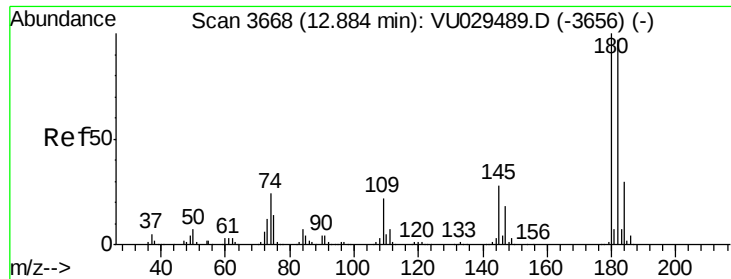
Tgt Ion: 146 Resp: 429999
 Ion Ratio Lower Upper
 146 100
 111 40.7 31.2 46.8
 148 63.1 51.6 77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.055 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

Tgt Ion: 75 Resp: 65786
 Ion Ratio Lower Upper
 75 100
 155 98.7 79.5 119.3
 157 126.0 103.4 155.0

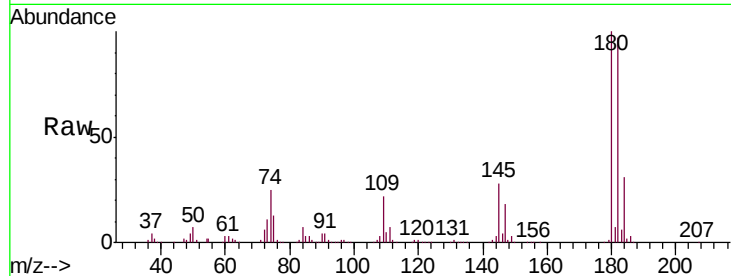




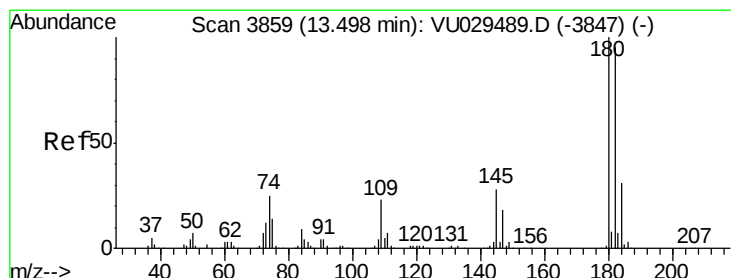
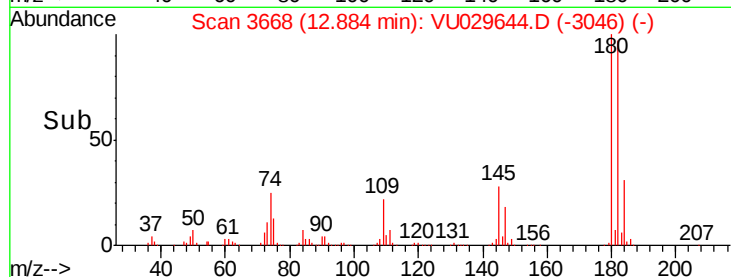
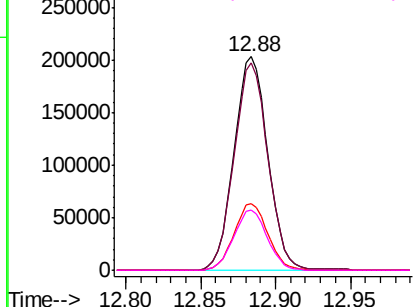
#67
 1,3,5-Trichlorobenzene
 Concen: 47.735 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05055

Tgt Ion:	180	Resp:	320317
Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.9	116.9
184	31.1	24.5	36.7
145	27.9	22.4	33.6

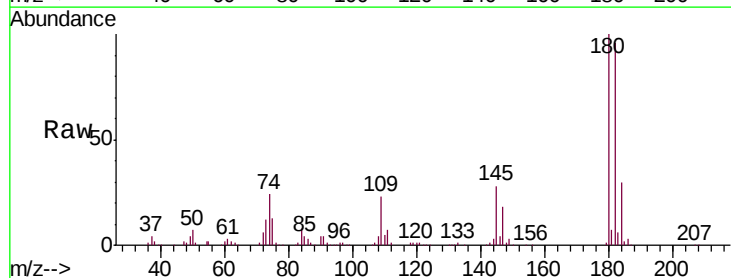


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

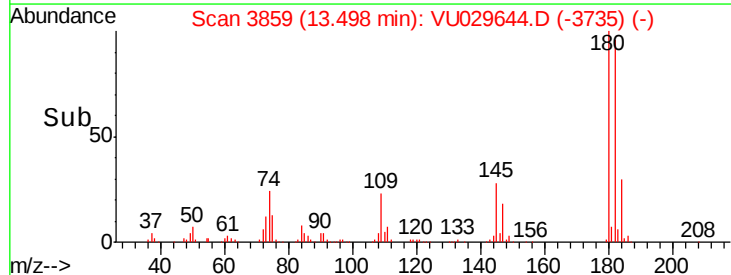
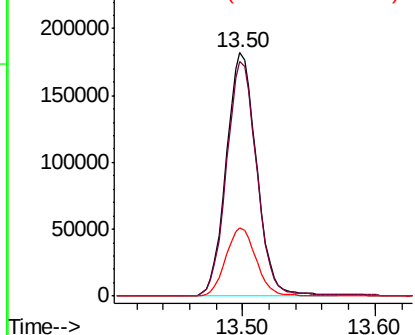


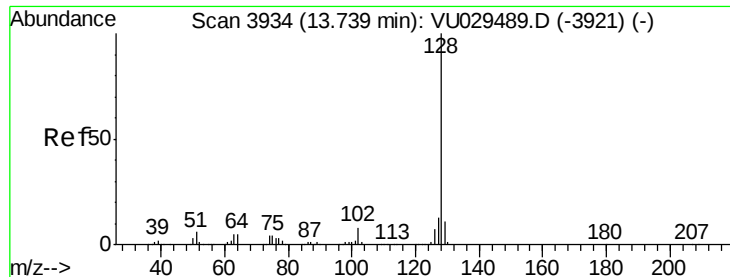
#68
 1,2,4-trichlorobenzene
 Concen: 49.926 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU029644.D
 Acq: 23 Feb 2019 01:07

Tgt Ion:	180	Resp:	289766
Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.2	114.2
145	28.3	22.7	34.1



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 51.478 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05055

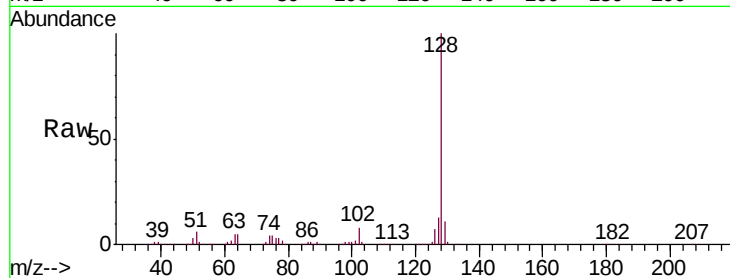
Tgt Ion:128 Resp: 918331

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

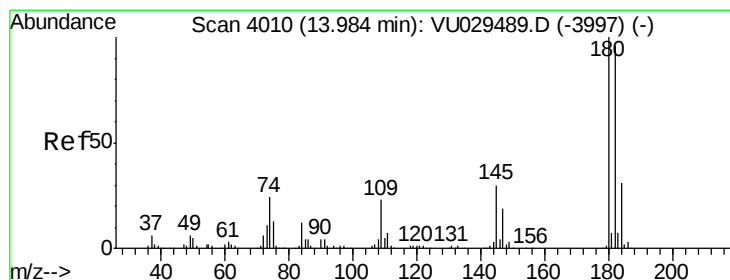
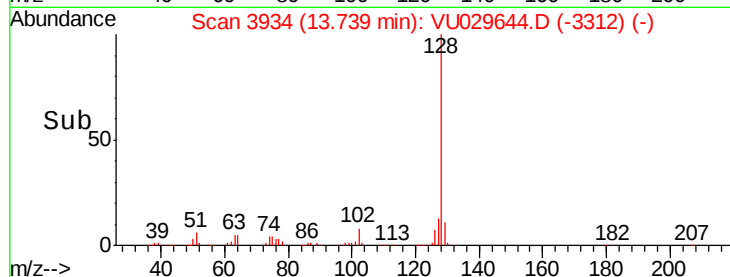
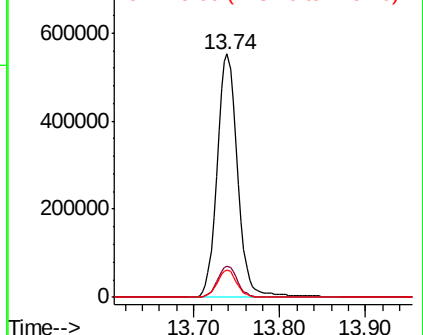
129 10.7 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.778 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU029644.D

Acq: 23 Feb 2019 01:07

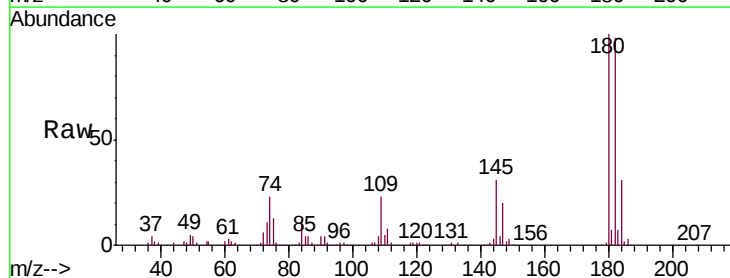
Tgt Ion:180 Resp: 300634

Ion Ratio Lower Upper

180 100

182 96.6 76.8 115.2

145 30.3 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

