

Data File : VU031915.D
Acq On : 11 May 2019 02:15
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

Quant Time: May 11 02:52:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Sat May 11 02:45:36 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	1071728	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	1077450	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	471103	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	411525	45.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.76%
7) Chloroethane-d5	1.67	69	344912	49.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.52%
11) 1,1-Dichloroethene-d2	2.27	63	777881	43.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.10%
21) 2-Butanone-d5	4.17	46	682183	83.94	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	83.94%
24) Chloroform-d	4.64	84	745013	45.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.70%
26) 1,2-Dichloroethane-d4	5.30	65	472164	43.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.98%
32) Benzene-d6	5.33	84	1510706	45.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.32%
36) 1,2-Dichloropropane-d6	6.32	67	499288	42.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	85.78%
41) Toluene-d8	7.56	98	1333073	46.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.52%
43) trans-1,3-Dichloropropene-	7.85	79	208849	41.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.60%
47) 2-Hexanone-d5	8.31	63	461888	91.68	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.68%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	737218	47.19	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.38%
64) 1,2-Dichlorobenzene-d4	11.85	152	464562	46.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.78%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	507014	43.021	ug/L	99
3) Chloromethane	1.32	50	599041	42.012	ug/L	100
5) Vinyl chloride	1.40	62	603153	45.244	ug/L	99
6) Bromomethane	1.61	94	337300	47.978	ug/L	99
8) Chloroethane	1.69	64	357134	49.009	ug/L	97
9) Trichlorofluoromethane	1.88	101	645996	42.508	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	373002	43.419	ug/L	98
12) 1,1-Dichloroethene	2.28	96	386029	46.166	ug/L	92
13) Acetone	2.32	43	479379	52.367	ug/L	96
14) Carbon disulfide	2.47	76	1214973	43.787	ug/L	100
15) Methyl Acetate	2.61	43	523128	37.767	ug/L #	91
16) Methylene chloride	2.69	84	479880	48.630	ug/L	90
17) trans-1,2-Dichloroethene	2.98	96	406199	46.621	ug/L	92
18) Methyl tert-butyl Ether	2.99	73	1319543	47.536	ug/L	97
19) 1,1-Dichloroethane	3.44	63	820976	44.741	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	457427	48.943	ug/L	93
22) 2-Butanone	4.26	43	746767	73.631	ug/L	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	217314	47.851	ug/L	86
25) Chloroform	4.67	83	796819	45.411	ug/L	100
27) 1,2-Dichloroethane	5.40	62	630005	44.204	ug/L	100
29) Cyclohexane	4.99	56	728449	42.718	ug/L	92
30) 1,1,1-Trichloroethane	4.91	97	625181	41.413	ug/L	99
31) Carbon tetrachloride	5.13	117	517633	40.117	ug/L	99
33) Benzene	5.38	78	1809984	45.691	ug/L	100
34) Trichloroethene	6.18	95	446706	46.520	ug/L	98
35) Methylcyclohexane	6.41	83	673503	46.801	ug/L	93
37) 1,2-Dichloropropane	6.43	63	498410	44.319	ug/L	100
38) Bromodichloromethane	6.75	83	597052	43.786	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	679376	45.718	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	1381762	79.860	ug/L	94
42) Toluene	7.63	91	1893922	47.996	ug/L	98
44) trans-1,3-Dichloropropene	7.87	75	596164	44.232	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	435448	46.968	ug/L	99
46) Tetrachloroethene	8.22	164	295639	45.161	ug/L	97
48) 2-Hexanone	8.36	43	1093778	78.161	ug/L	93
49) Dibromochloromethane	8.47	129	435563	45.153	ug/L	99
50) 1,2-Dibromoethane	8.58	107	462120	47.196	ug/L	100
51) Chlorobenzene	9.12	112	1109828	47.594	ug/L	98
52) Ethylbenzene	9.24	91	2029149	49.573	ug/L	99
53) m,p-Xylene	9.37	106	757718	53.131	ug/L	95
54) o-xylene	9.77	106	751438	53.147	ug/L	93
55) Styrene	9.79	104	1283351	53.128	ug/L	97
56) Isopropylbenzene	10.16	105	1885229	50.707	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	766093	46.567	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	612455	45.934	ug/L	100
61) Bromoform	9.95	173	305747	43.782	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	771731	49.488	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	785577	48.642	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	818993	49.416	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	161993	42.114	ug/L	91
67) 1,3,5-Trichlorobenzene	12.88	180	542917	46.483	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	456699	49.391	ug/L	100
69) Naphthalene	13.74	128	1732816	54.964	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	503944	47.871	ug/L	98

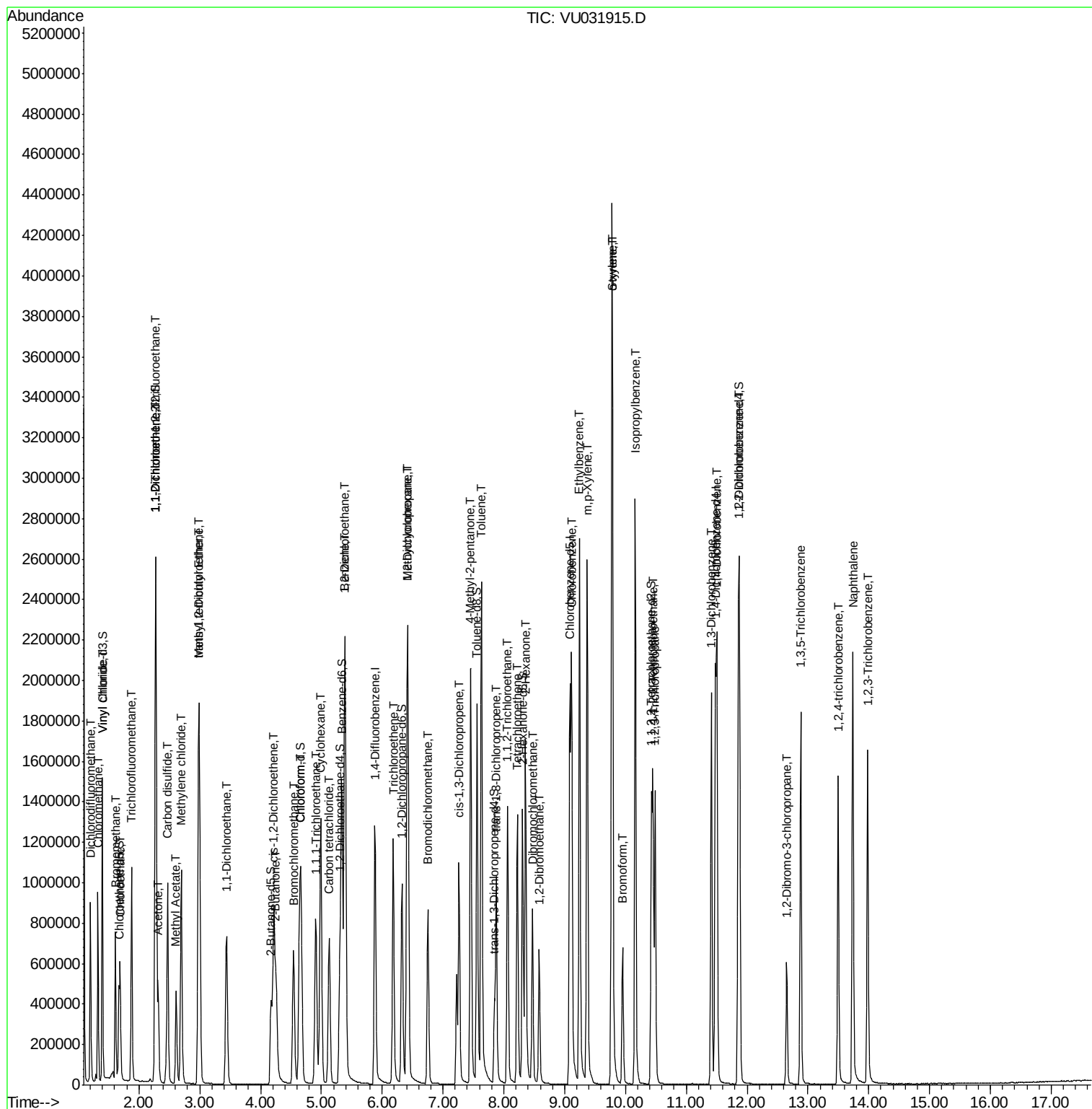
(#) = qualifier out of range (m) = manual integration (+) = signals summed

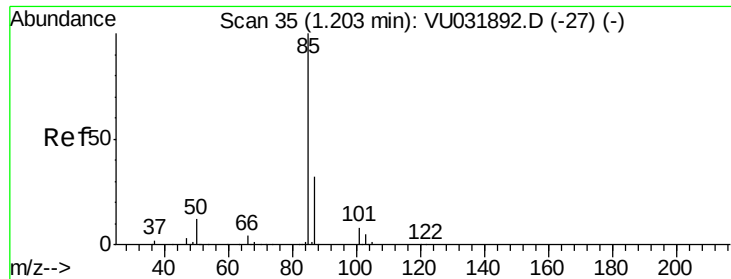
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#2

Dichlorodifluoromethane

Concen: 43.021 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

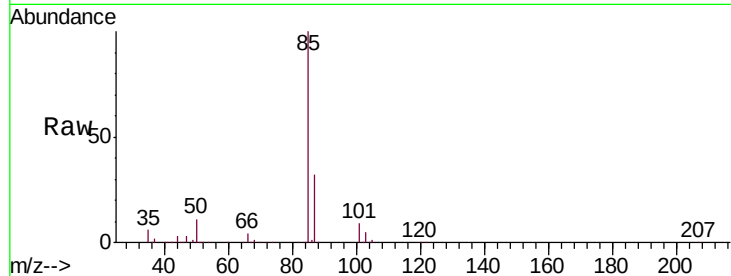
VSTD05041

Tgt Ion: 85 Resp: 507014

Ion Ratio Lower Upper

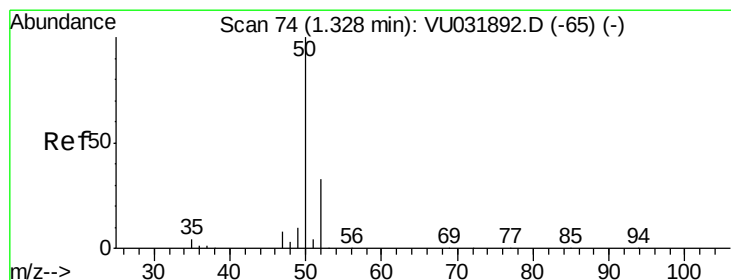
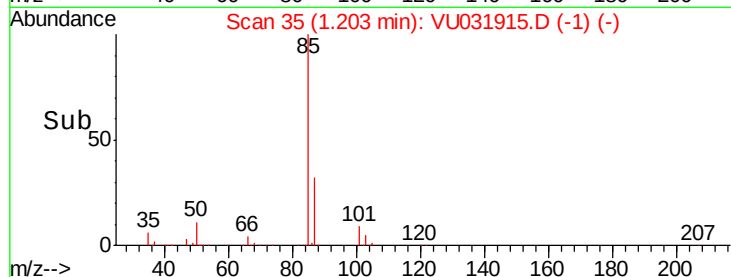
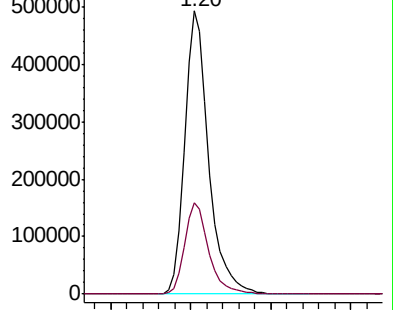
85 100

87 32.5 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031892.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031892.D (-27) (-)



#3

Chloromethane

Concen: 42.012 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU031915.D

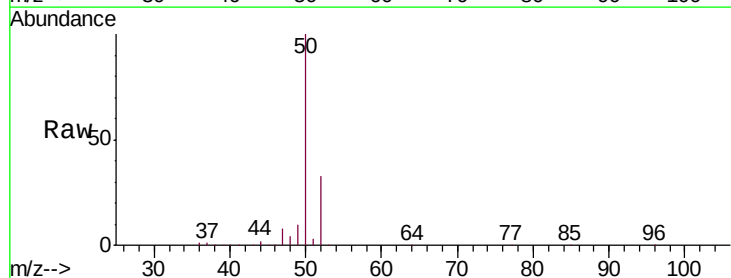
Acq: 11 May 2019 02:15

Tgt Ion: 50 Resp: 599041

Ion Ratio Lower Upper

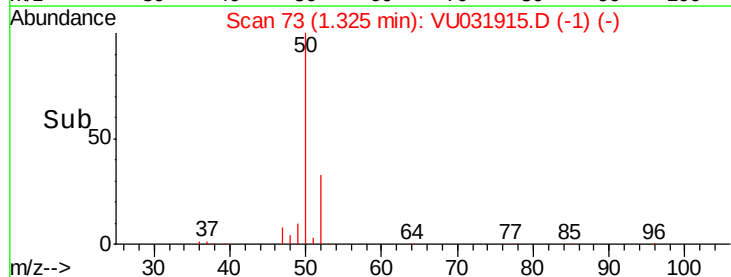
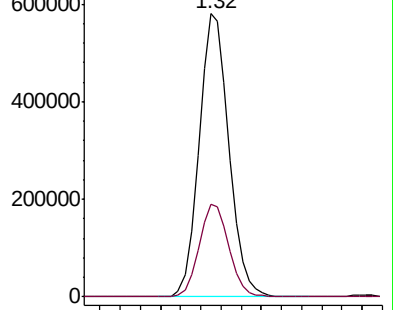
50 100

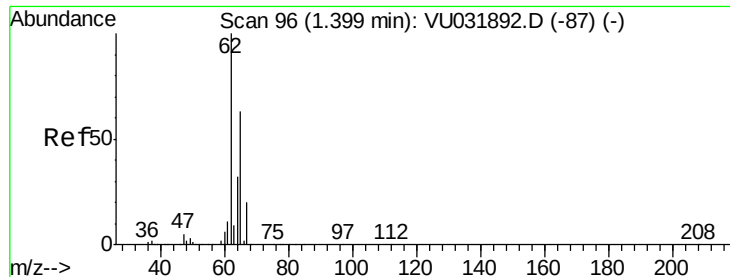
52 32.6 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031892.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU031892.D (-65) (-)





#5

Vinyl chloride

Concen: 45.244 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

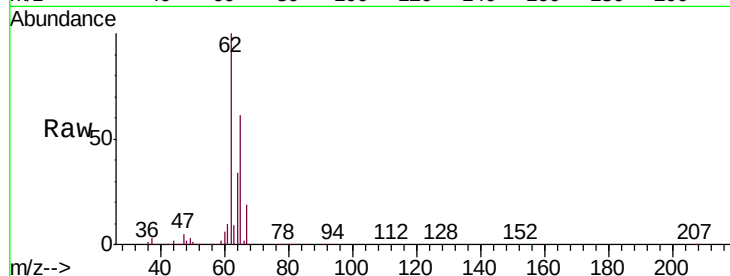
VSTD05041

Tgt Ion: 62 Resp: 603153

Ion Ratio Lower Upper

62 100

64 33.6 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031892.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU031892.D (-87) (-)

1.40

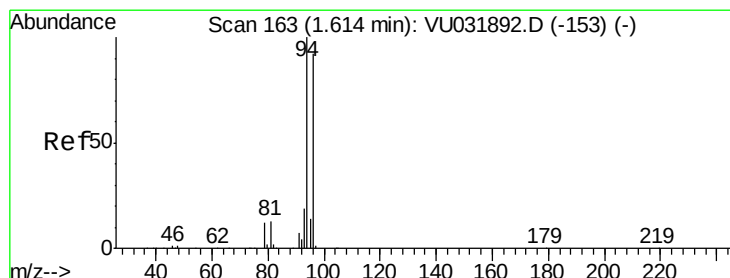
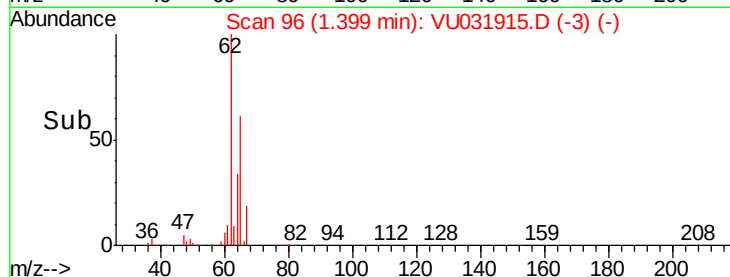
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 47.978 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU031915.D

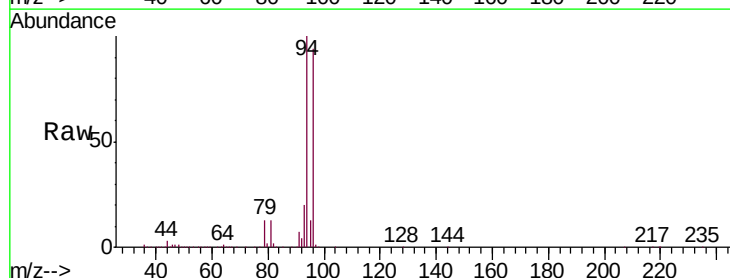
Acq: 11 May 2019 02:15

Tgt Ion: 94 Resp: 337300

Ion Ratio Lower Upper

94 100

96 93.6 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031892.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU031892.D (-153) (-)

1.61

300000

250000

200000

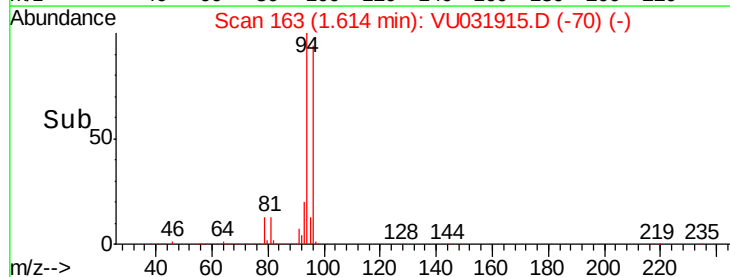
150000

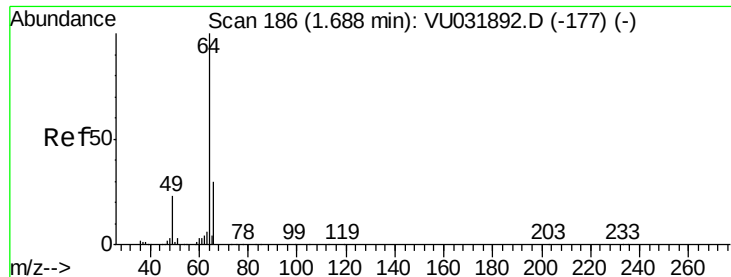
100000

50000

0

Time-->





#8

Chloroethane

Concen: 49.009 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

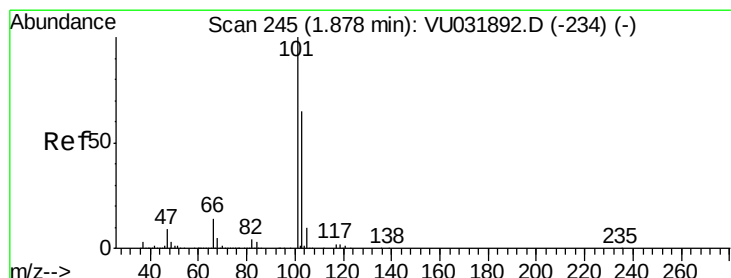
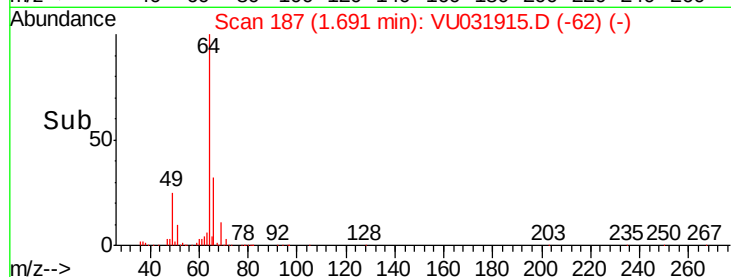
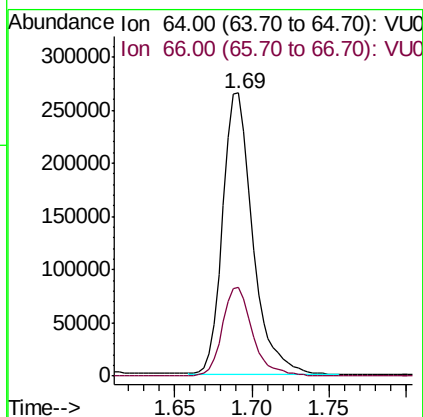
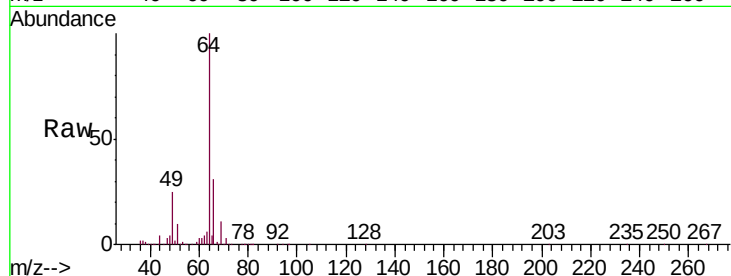
VSTD05041

Tgt Ion: 64 Resp: 357134

Ion Ratio Lower Upper

64 100

66 31.3 23.2 43.0



#9

Trichlorofluoromethane

Concen: 42.508 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031915.D

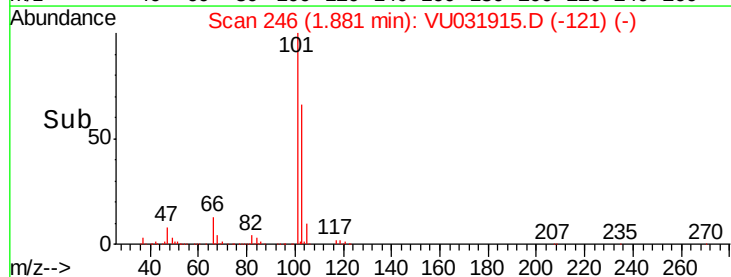
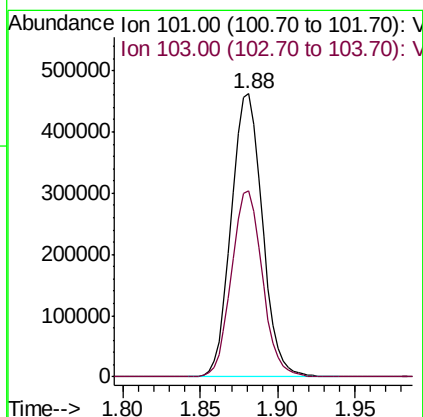
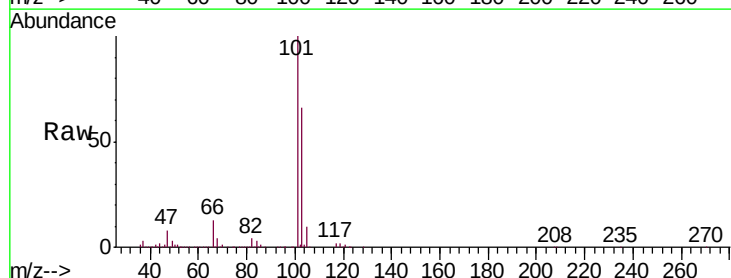
Acq: 11 May 2019 02:15

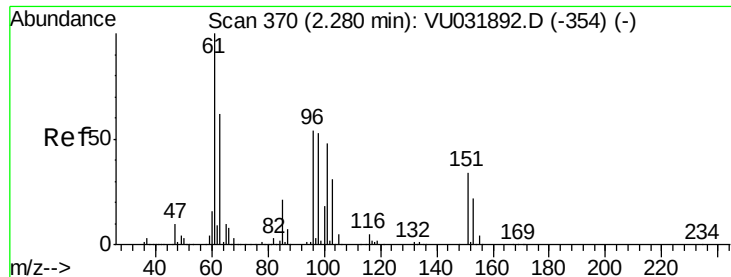
Tgt Ion: 101 Resp: 645996

Ion Ratio Lower Upper

101 100

103 65.2 50.8 76.2





#10

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

Concen: 43.419 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

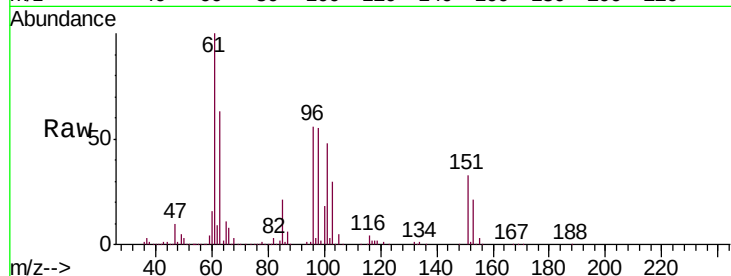
Tgt Ion: 101 Resp: 373002

Ion Ratio Lower Upper

101 100

85 43.1 36.1 54.1

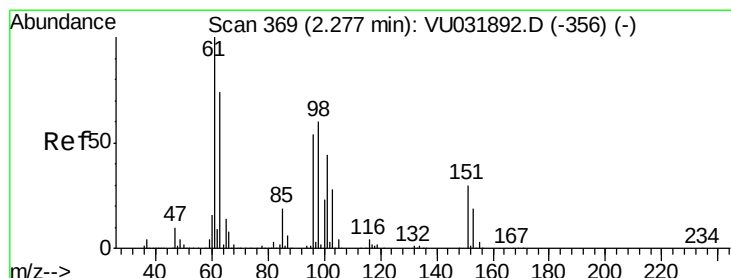
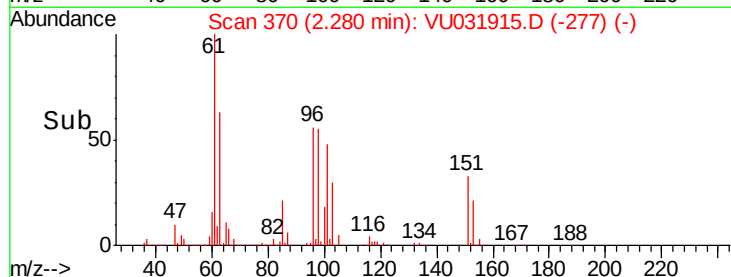
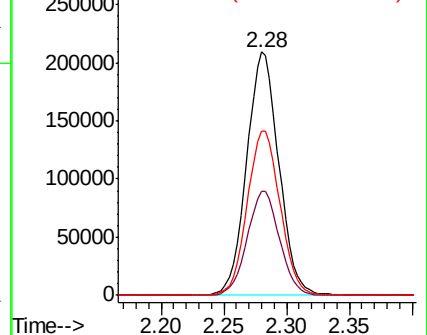
151 69.0 56.1 84.1



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: 46.166 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

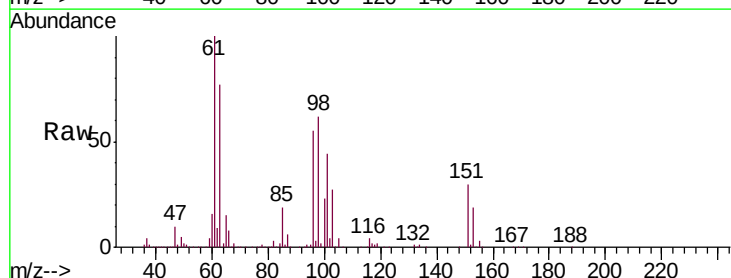
Tgt Ion: 96 Resp: 386029

Ion Ratio Lower Upper

96 100

61 180.9 135.0 250.6

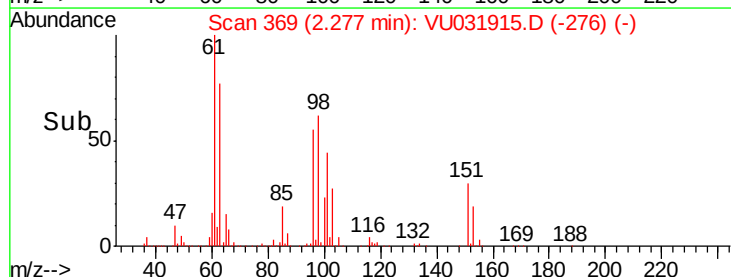
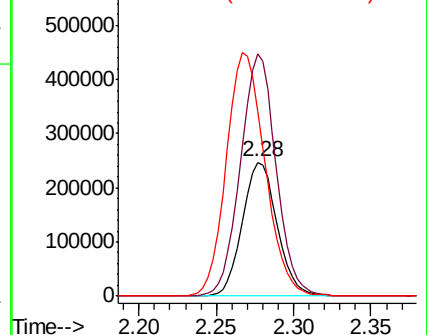
63 138.7 103.5 192.3

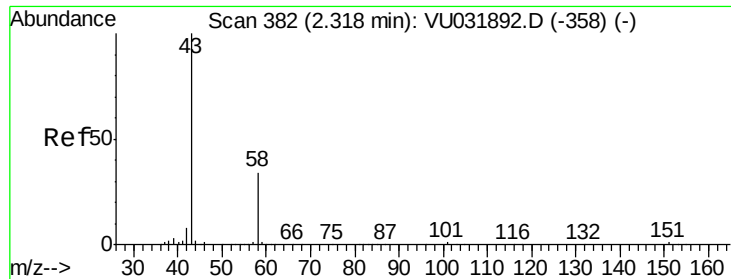


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 52.367 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

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Acq: 11 May 2019 02:15

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MSVOA_U

ClientSampleId :

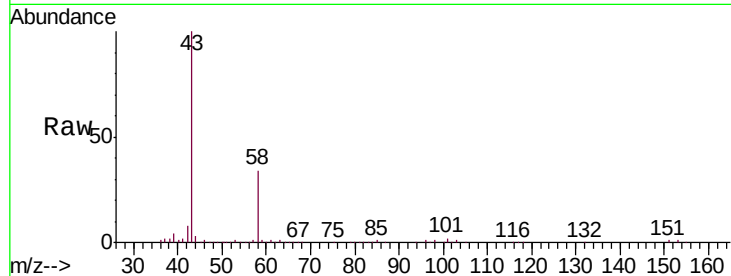
VSTD05041

Tgt Ion: 43 Resp: 479379

Ion Ratio Lower Upper

43 100

58 34.7 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031892.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU031892.D (-358) (-)

2.32

300000

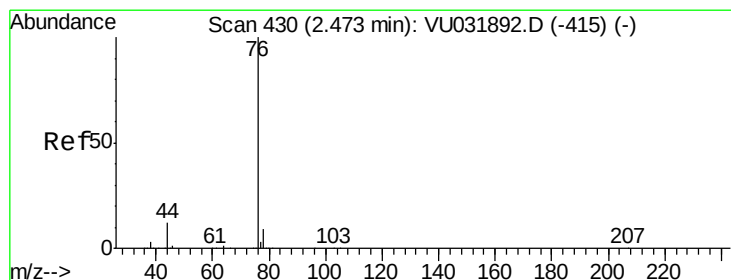
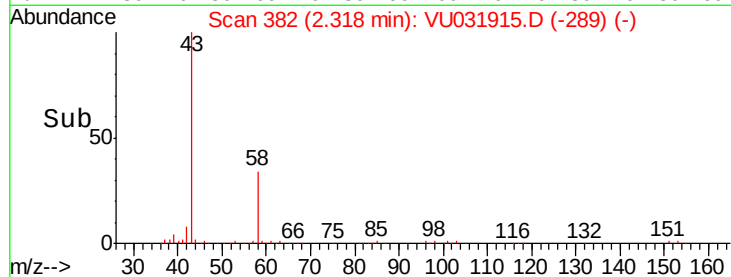
200000

100000

0

Time-->

2.20 2.30 2.40



#14

Carbon disulfide

Concen: 43.787 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU031915.D

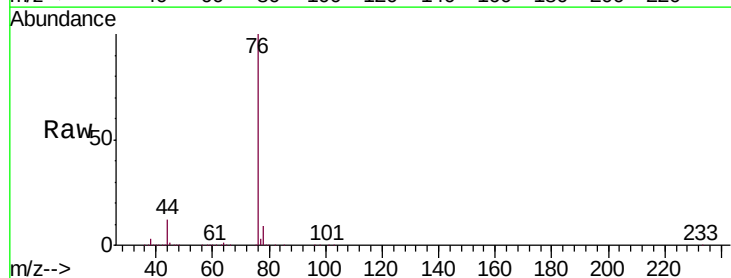
Acq: 11 May 2019 02:15

Tgt Ion: 76 Resp: 1214973

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031892.D (-415) (-)

Ion 78.00 (77.70 to 78.70): VU031892.D (-415) (-)

2.47

800000

600000

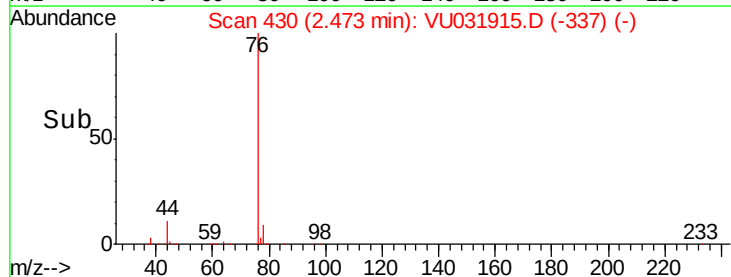
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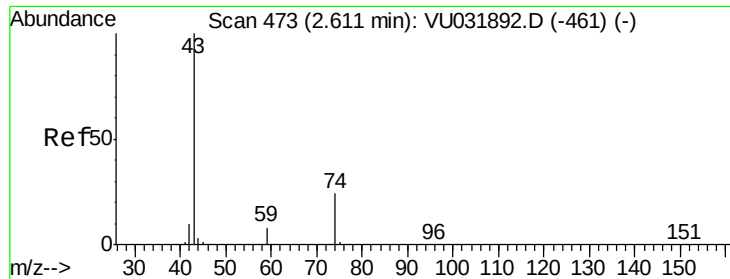
200000

0

Time-->

2.40 2.45 2.50 2.55

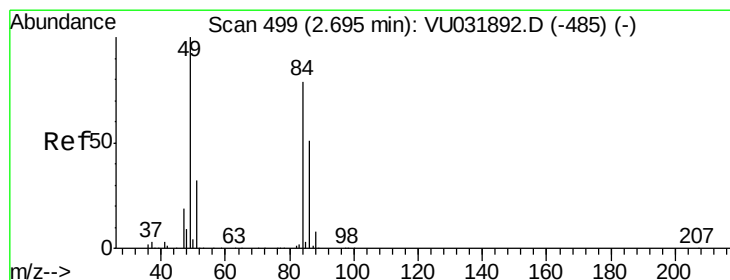
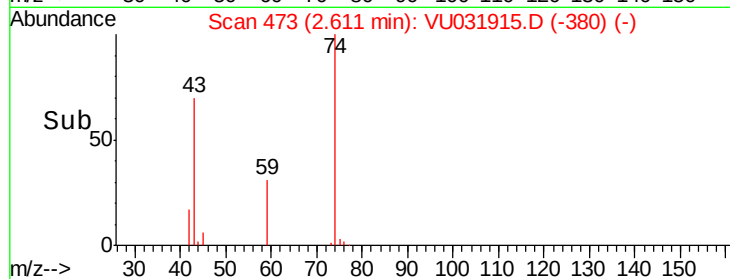
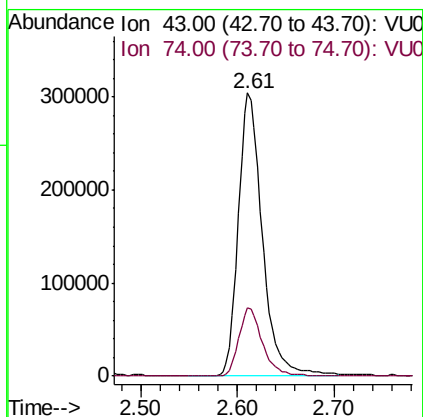
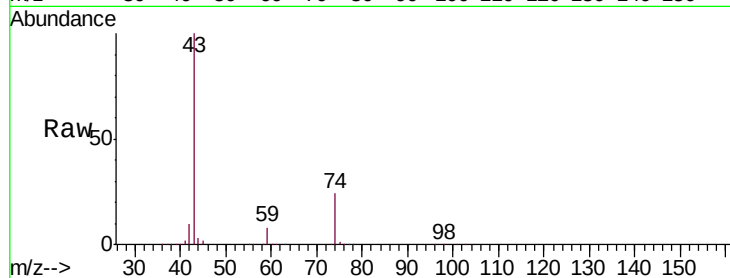




#15
Methyl Acetate
Concen: 37.767 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU031915.D
Acq: 11 May 2019 02:15

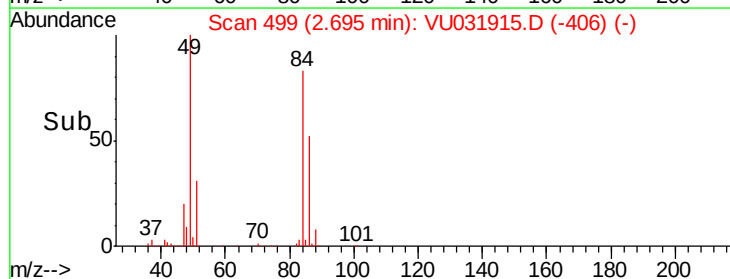
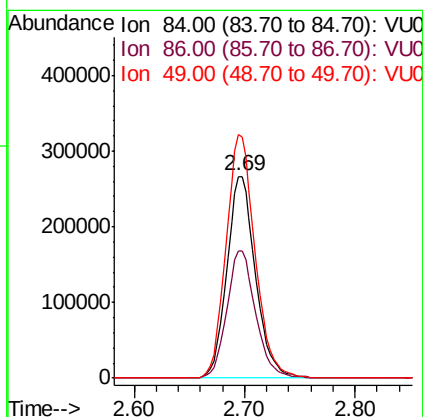
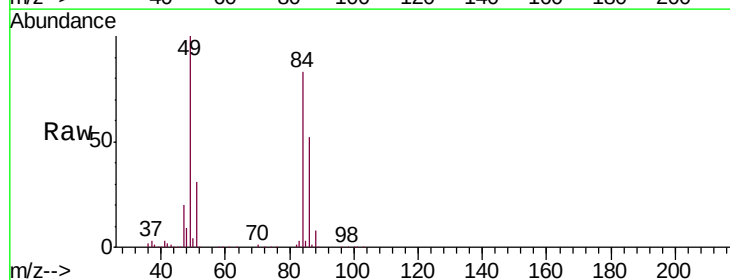
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

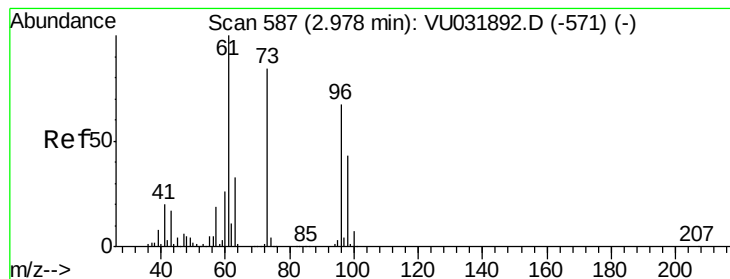
Tgt Ion: 43 Resp: 523128
Ion Ratio Lower Upper
43 100
74 23.8 15.7 23.5#



#16
Methylene chloride
Concen: 48.630 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU031915.D
Acq: 11 May 2019 02:15

Tgt Ion: 84 Resp: 479880
Ion Ratio Lower Upper
84 100
86 63.3 44.7 83.1
49 120.9 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 46.621 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

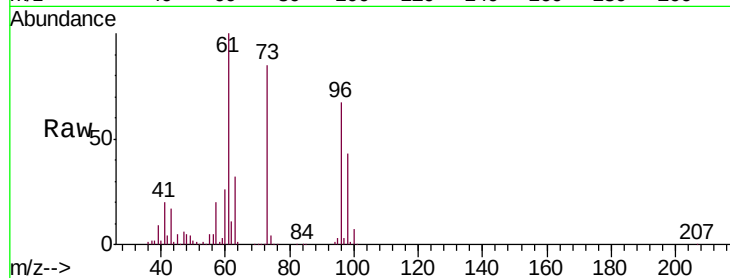
Tgt Ion: 96 Resp: 406199

Ion Ratio Lower Upper

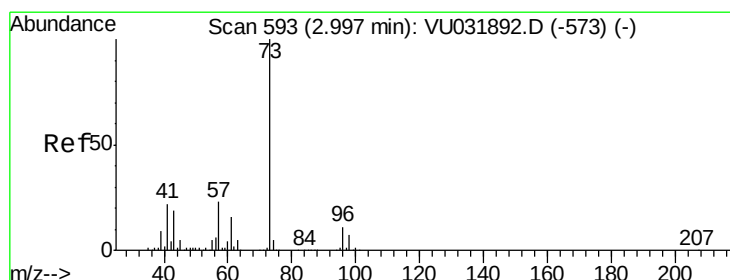
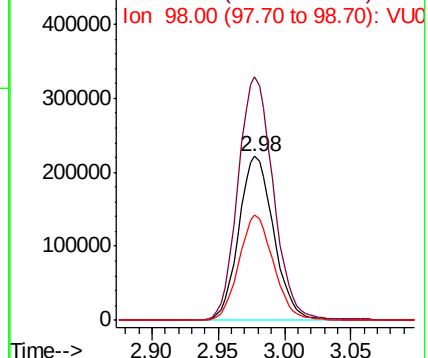
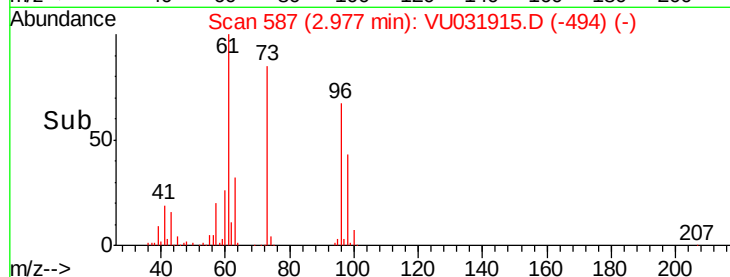
96 100

61 148.7 114.5 212.7

98 64.4 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031915.D (-494) (-)



#18

Methyl tert-butyl Ether

Concen: 47.536 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

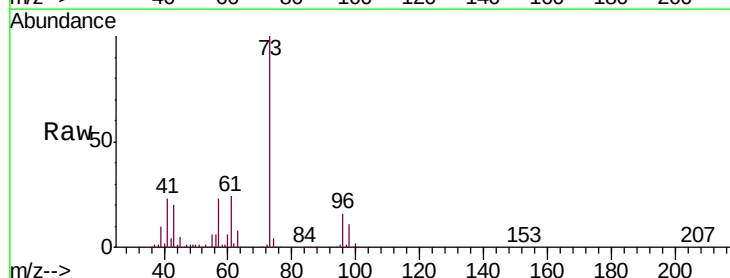
Tgt Ion: 73 Resp: 1319543

Ion Ratio Lower Upper

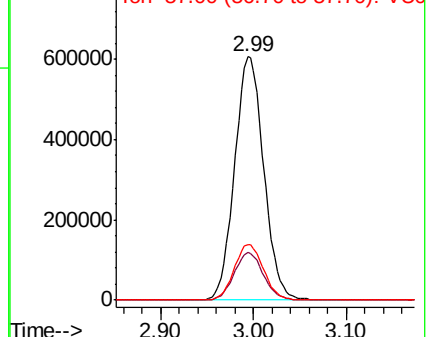
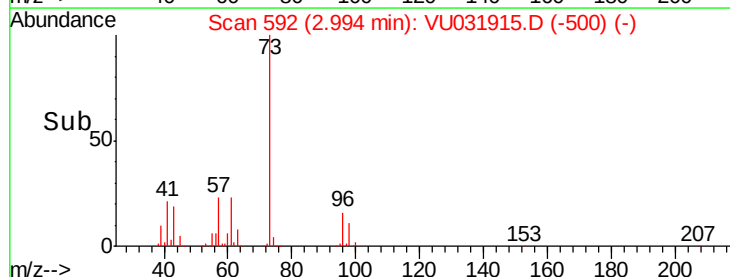
73 100

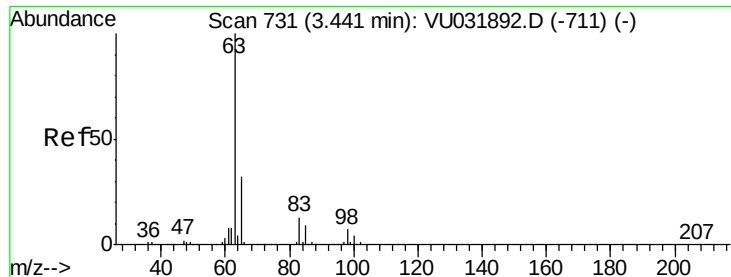
43 19.4 17.0 25.4

57 23.1 19.5 29.3



Abundance Ion 73.00 (72.70 to 73.70): VU031915.D (-500) (-)

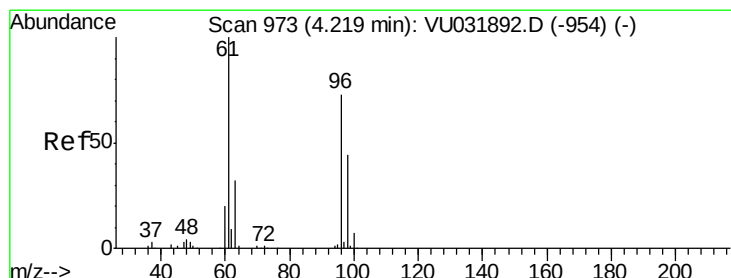
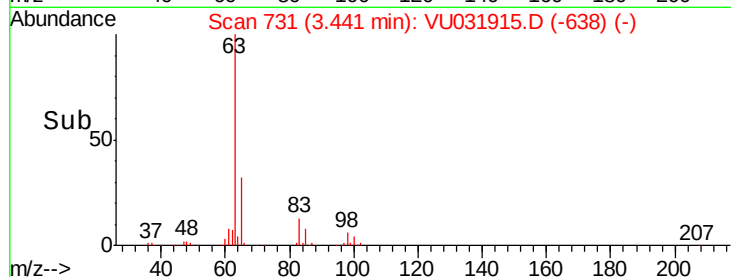
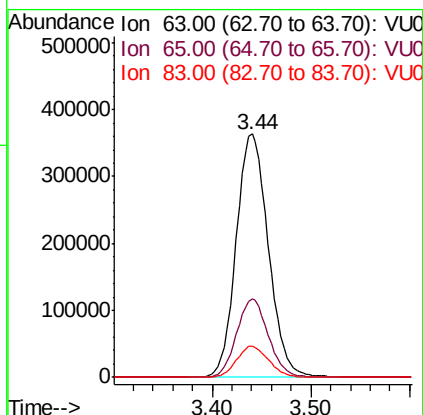
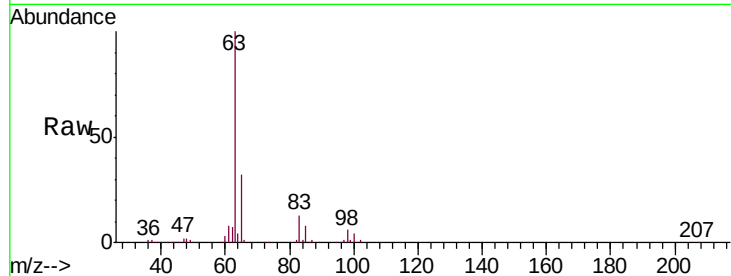




#19
 1,1-Dichloroethane
 Concen: 44.741 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

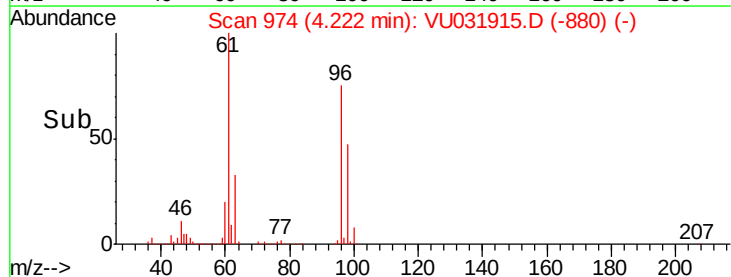
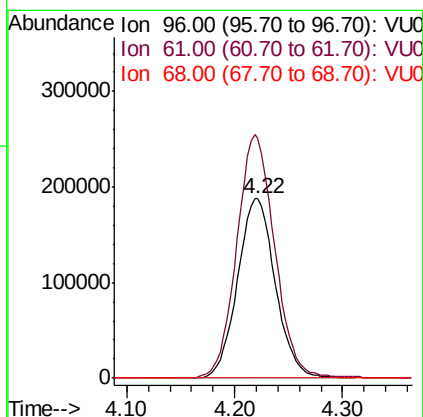
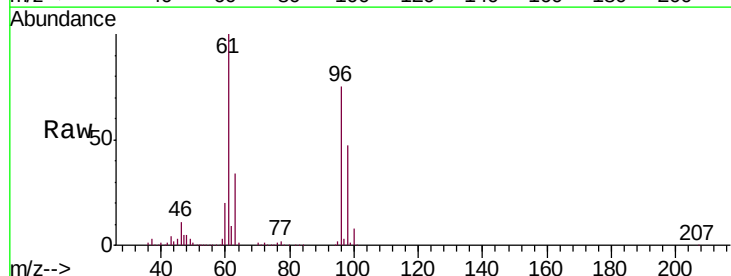
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

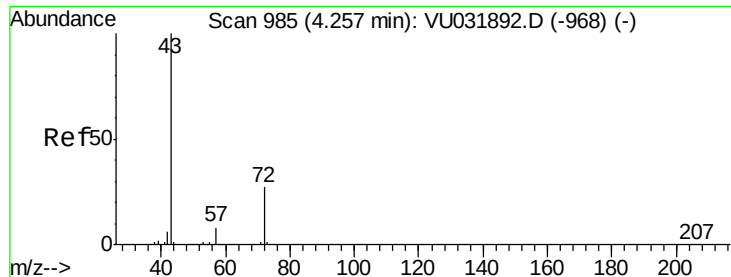
Tgt Ion: 63 Resp: 820976
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.0 40.8
 83 13.0 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 48.943 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

Tgt Ion: 96 Resp: 457427
 Ion Ratio Lower Upper
 96 100
 61 133.6 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 73.631 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

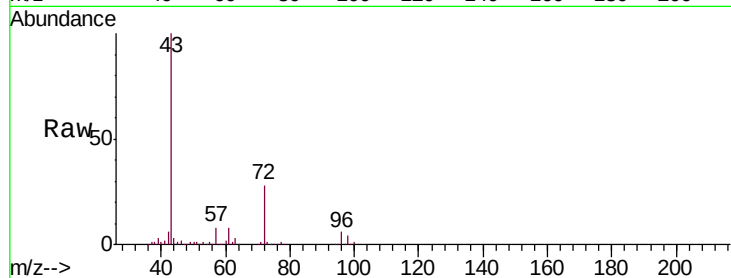
VSTD05041

Tgt Ion: 43 Resp: 746767

Ion Ratio Lower Upper

43 100

72 27.4 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031892.D (-968) (-)

Ion 72.00 (71.70 to 72.70): VU031892.D (-968) (-)

4.26

300000

250000

200000

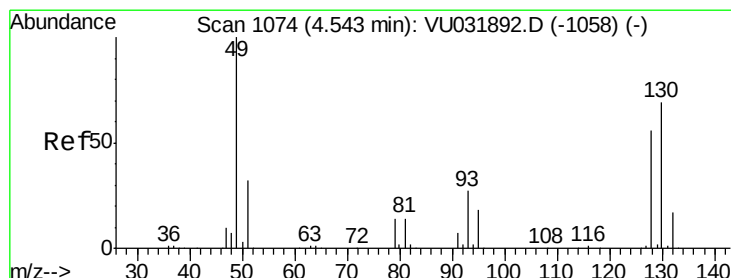
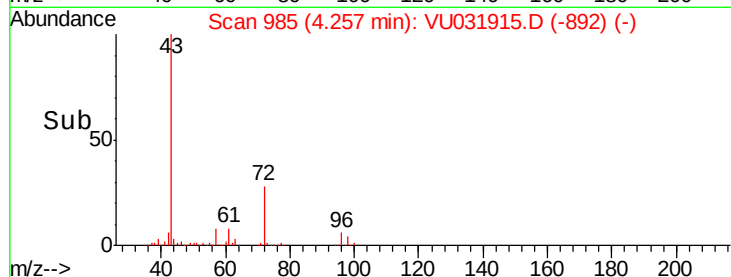
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 47.851 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Tgt Ion: 128 Resp: 217314

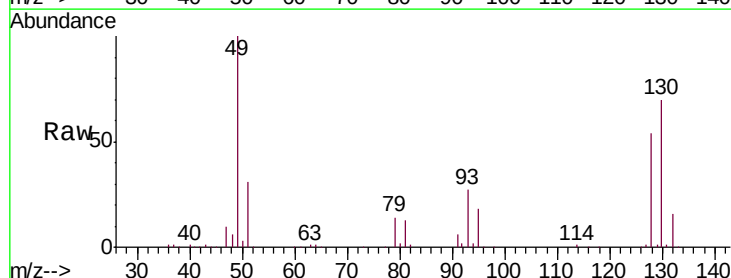
Ion Ratio Lower Upper

128 100

49 184.9 152.6 283.4

130 128.8 93.7 173.9

51 57.7 54.2 81.4



Abundance Ion 128.00 (127.70 to 128.70): VU031892.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU031892.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU031892.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU031892.D (-1058) (-)

250000

200000

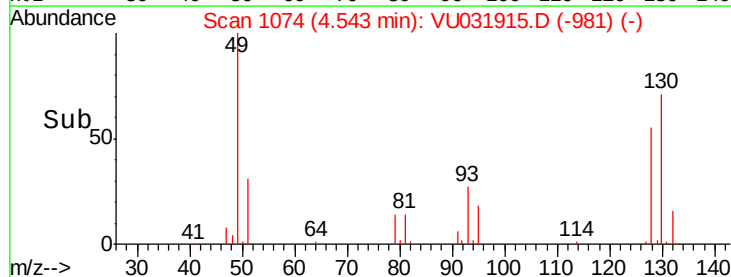
150000

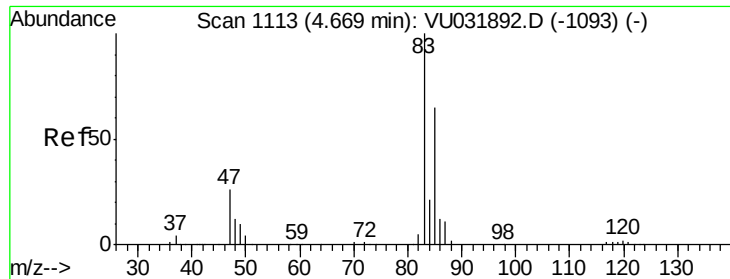
100000

50000

0

Time-->

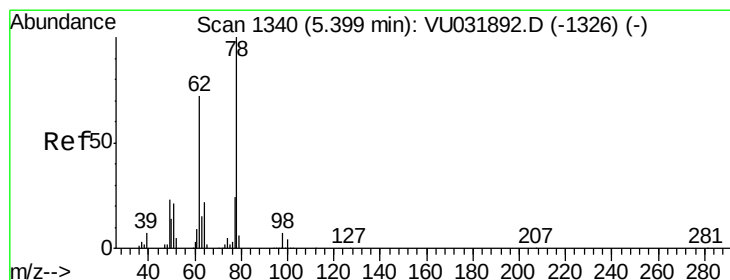
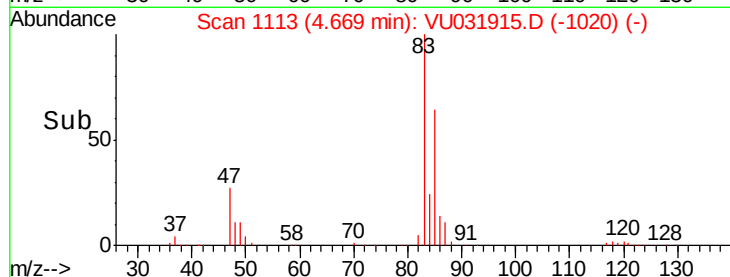
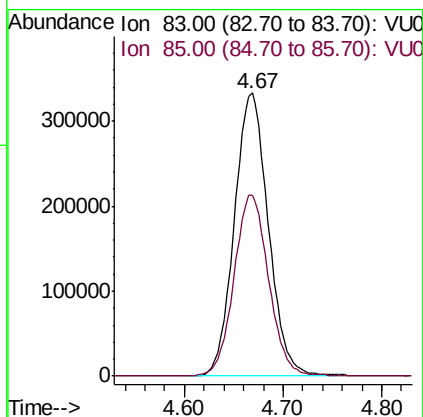
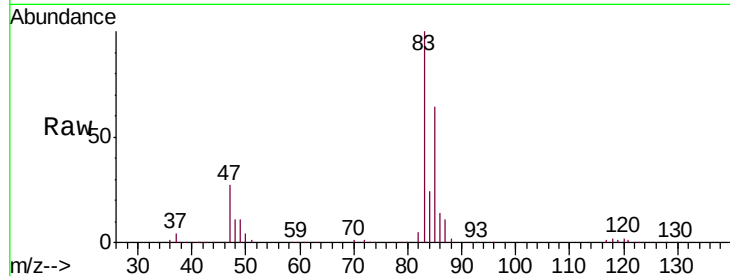




#25
Chloroform
Concen: 45.411 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU031915.D
Acq: 11 May 2019 02:15

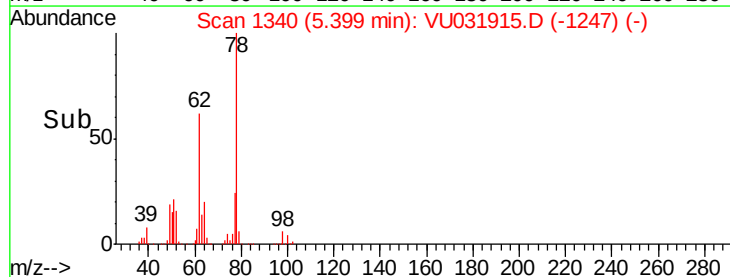
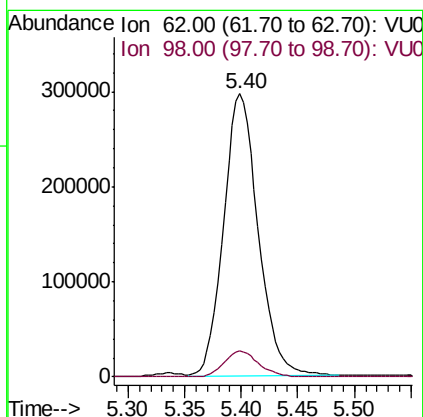
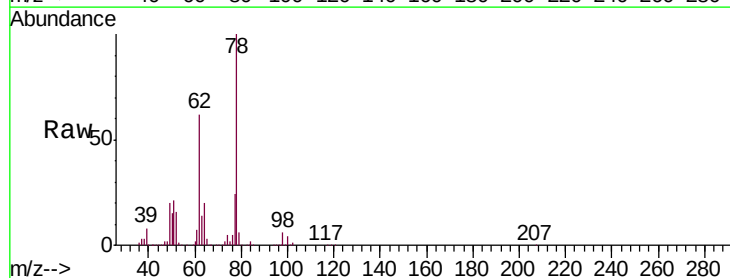
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

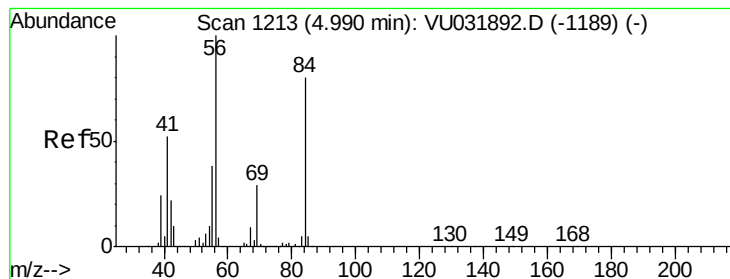
Tgt Ion: 83 Resp: 796819
Ion Ratio Lower Upper
83 100
85 63.9 44.9 83.3



#27
1,2-Dichloroethane
Concen: 44.204 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU031915.D
Acq: 11 May 2019 02:15

Tgt Ion: 62 Resp: 630005
Ion Ratio Lower Upper
62 100
98 9.0 7.1 10.7





#29

Cyclohexane

Concen: 42.718 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

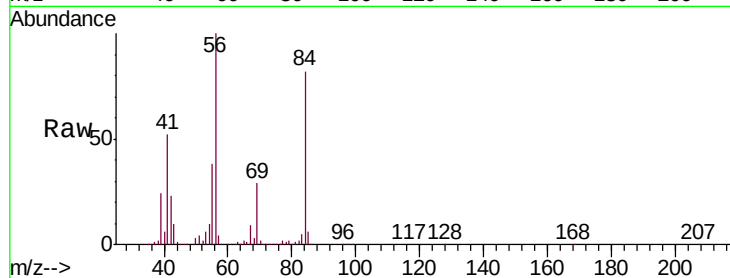
Tgt Ion: 56 Resp: 728449

Ion Ratio Lower Upper

56 100

69 29.9 22.3 33.5

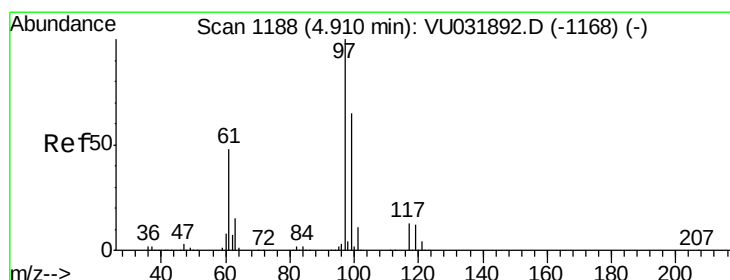
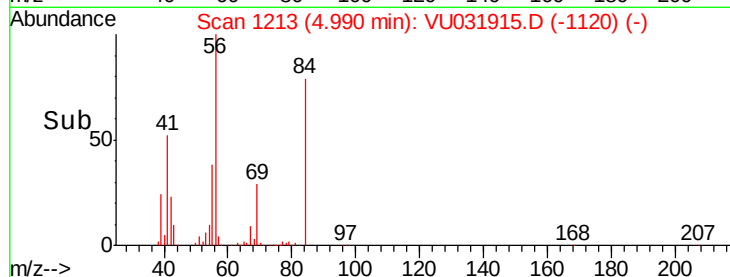
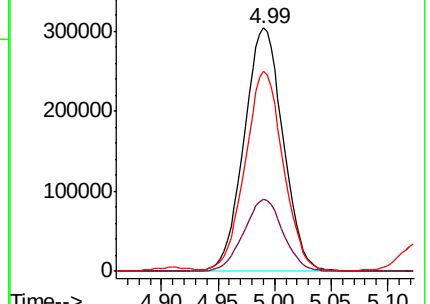
84 79.4 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VU031892.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU031892.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU031892.D (-1189) (-)



#30

1,1,1-Trichloroethane

Concen: 41.413 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

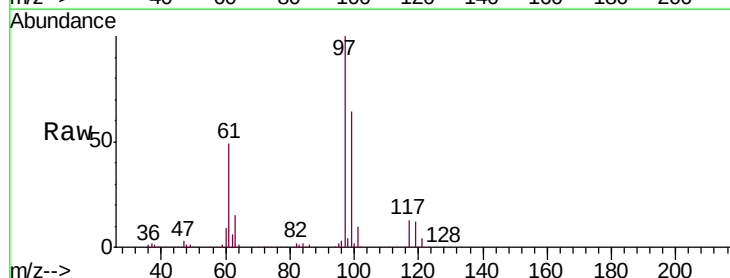
Tgt Ion: 97 Resp: 625181

Ion Ratio Lower Upper

97 100

99 64.3 52.0 78.0

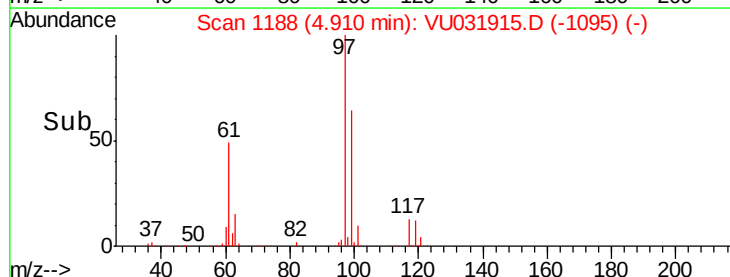
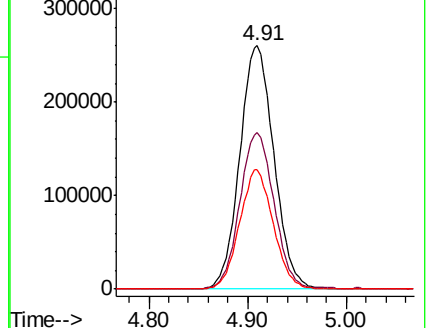
61 48.3 38.7 58.1

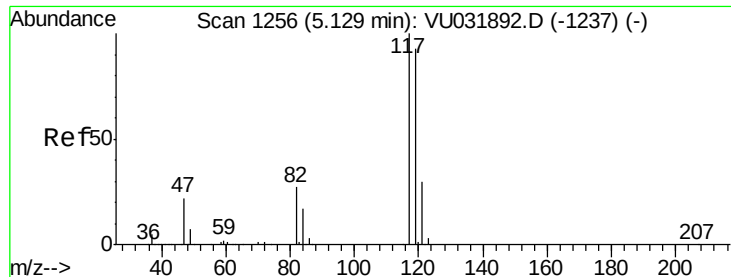


Abundance Ion 97.00 (96.70 to 97.70): VU031892.D (-1168) (-)

Ion 99.00 (98.70 to 99.70): VU031892.D (-1168) (-)

Ion 61.05 (60.75 to 61.75): VU031892.D (-1168) (-)





#31

Carbon tetrachloride

Concen: 40.117 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

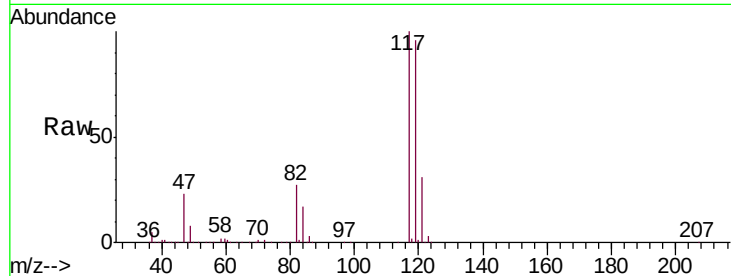
VSTD05041

Tgt Ion:117 Resp: 517633

Ion Ratio Lower Upper

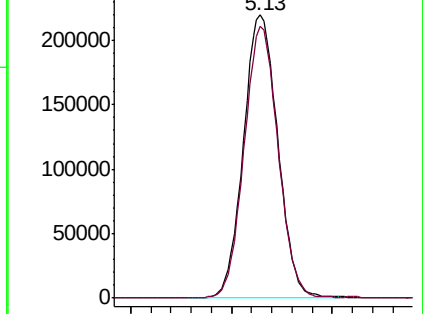
117 100

119 94.7 76.6 114.8

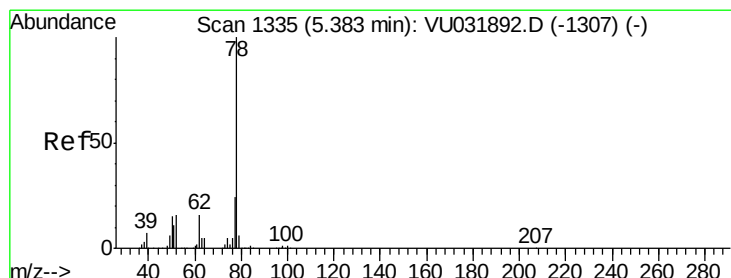
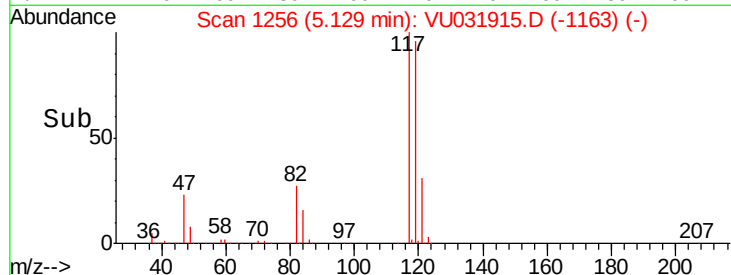


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#33

Benzene

Concen: 45.691 ug/L

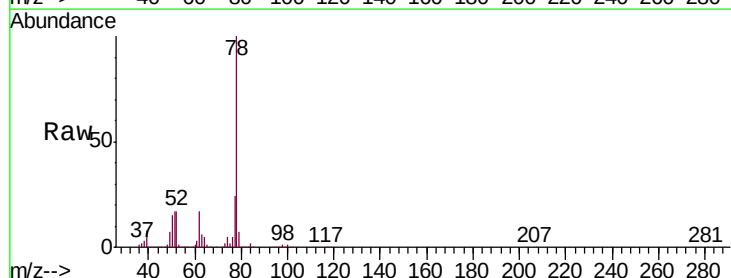
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

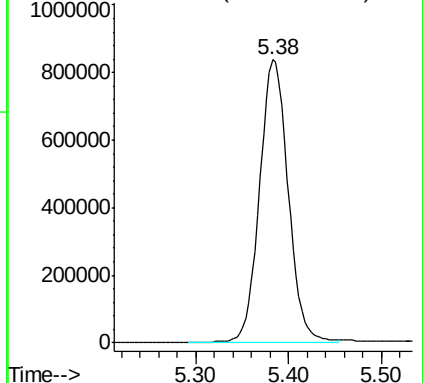
Lab File: VU031915.D

Acq: 11 May 2019 02:15

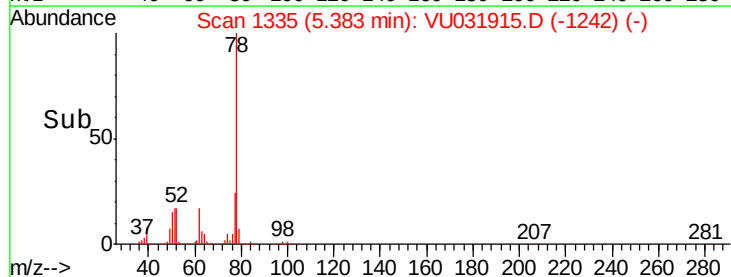
Tgt Ion: 78 Resp: 1809984

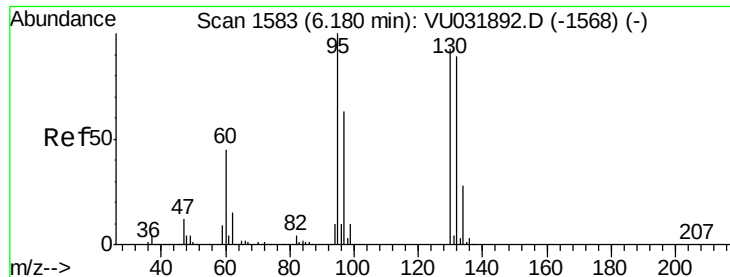


Abundance Ion 78.00 (77.70 to 78.70): VU0



Time-->





#34

Trichloroethene

Concen: 46.520 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

Tgt Ion: 95 Resp: 446706

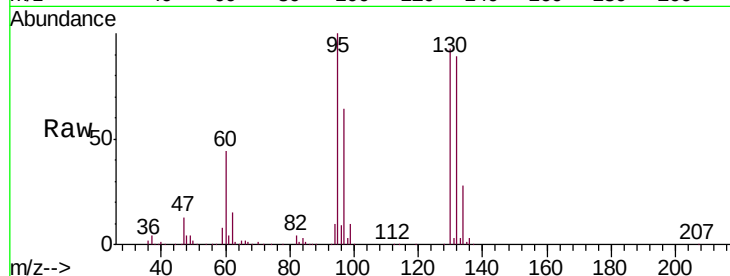
Ion Ratio Lower Upper

95 100

97 63.6 44.8 83.2

132 89.0 63.1 117.1

130 92.6 66.5 123.5

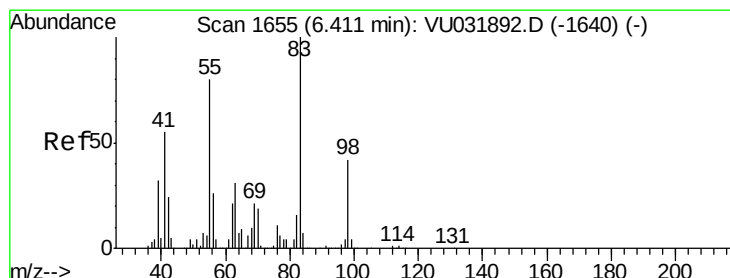
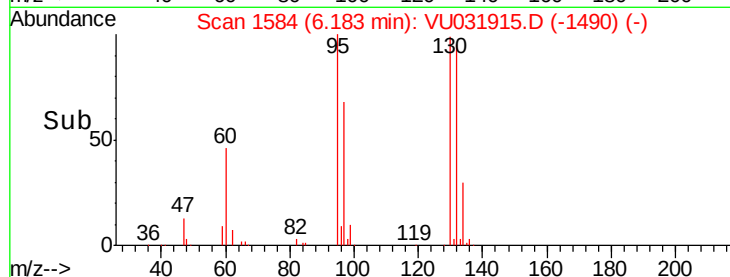
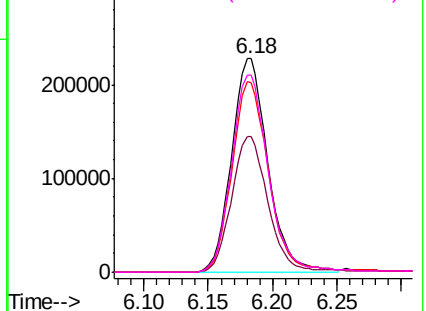


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 46.801 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

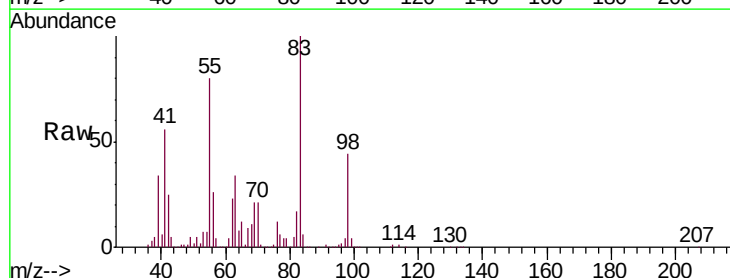
Tgt Ion: 83 Resp: 673503

Ion Ratio Lower Upper

83 100

55 82.3 73.0 109.4

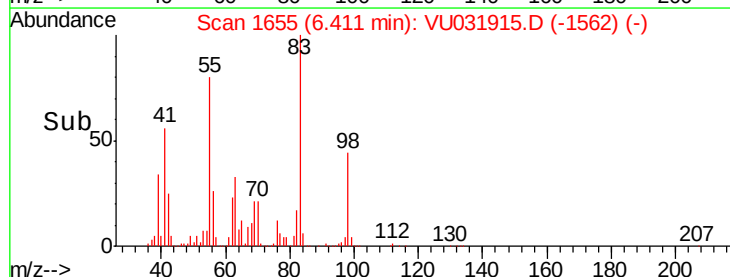
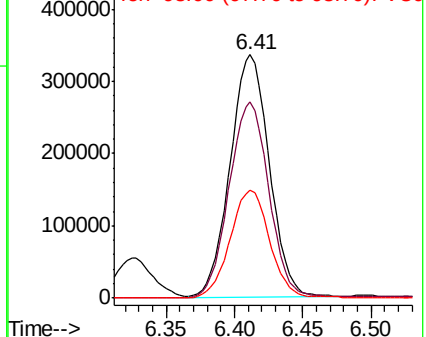
98 44.5 35.3 52.9

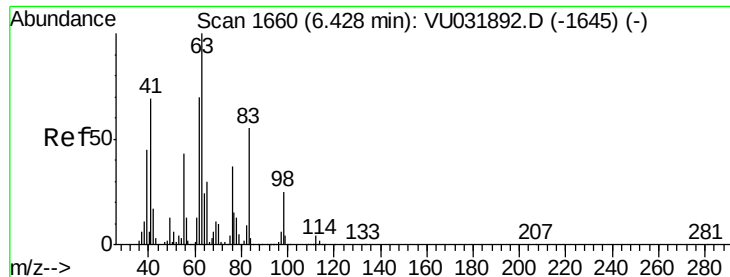


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

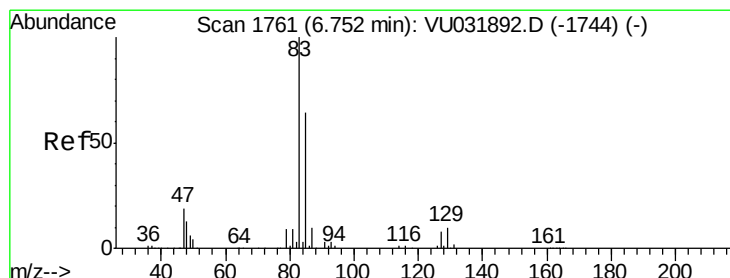
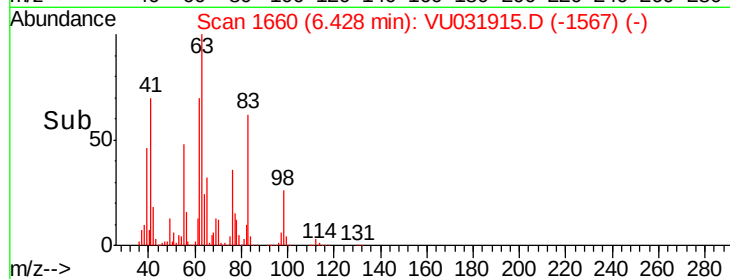
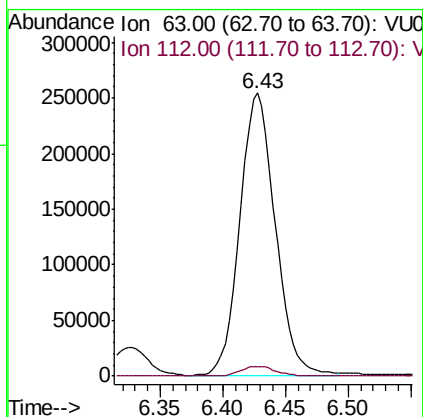
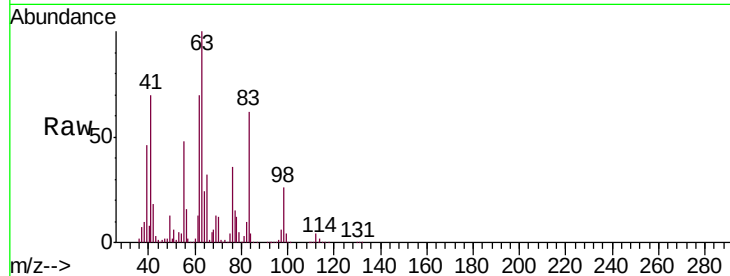




#37
 1,2-Dichloropropane
 Concen: 44.319 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

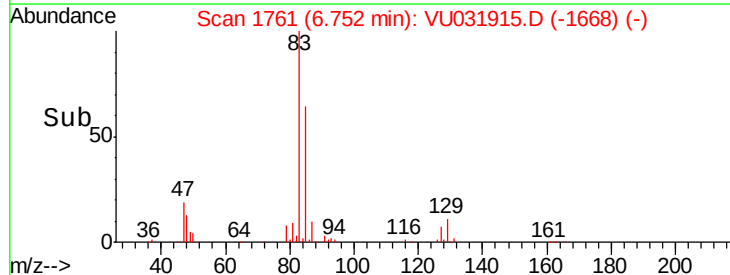
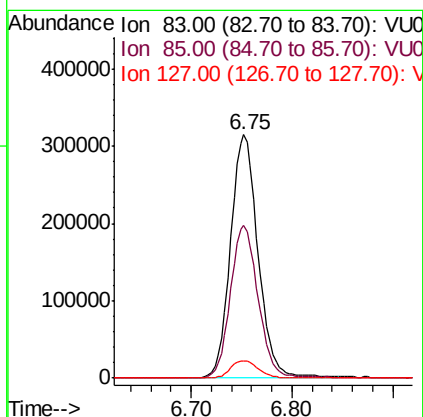
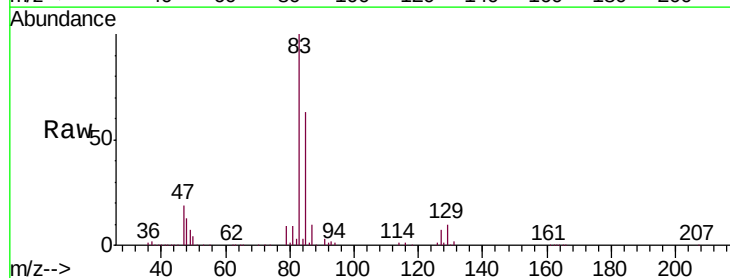
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

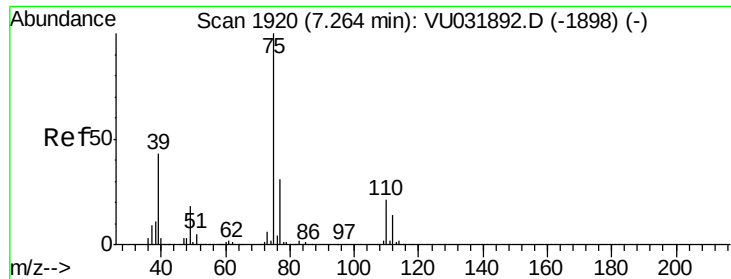
Tgt Ion: 63 Resp: 498410
 Ion Ratio Lower Upper
 63 100
 112 3.5 2.7 4.1



#38
 Bromodichloromethane
 Concen: 43.786 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

Tgt Ion: 83 Resp: 597052
 Ion Ratio Lower Upper
 83 100
 85 62.9 43.7 81.1
 127 7.0 6.7 10.1



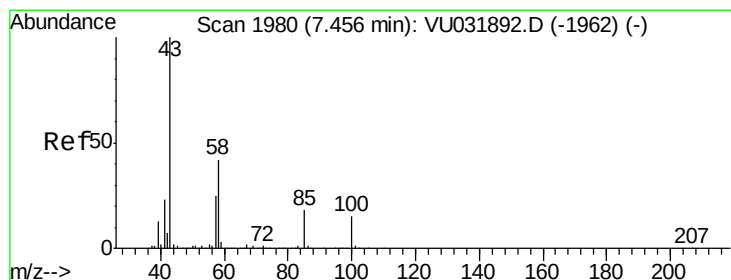
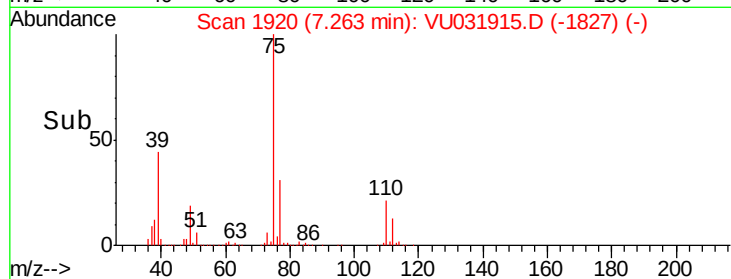
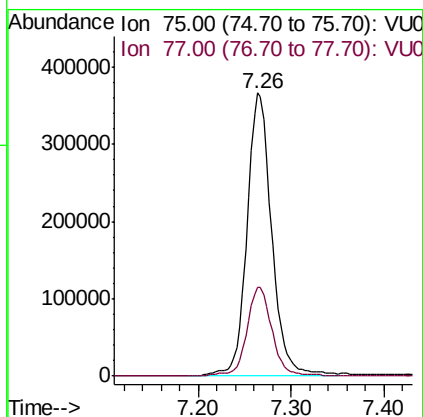
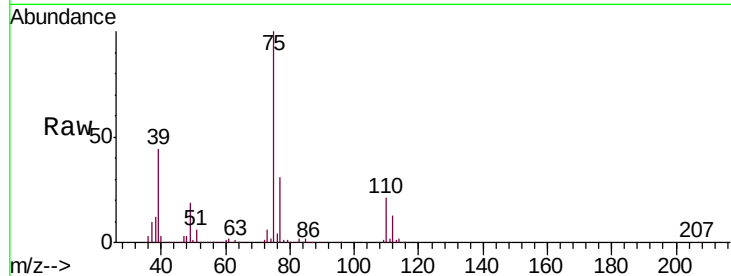


#39

cis-1,3-Dichloropropene
 Concen: 45.718 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

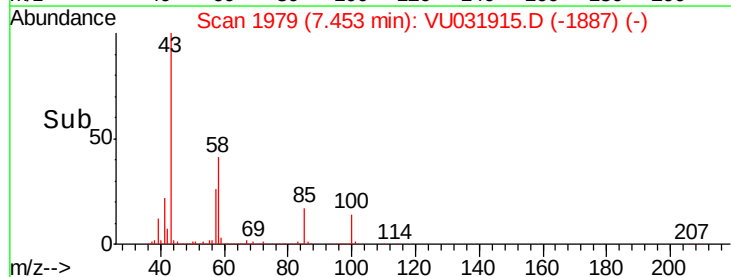
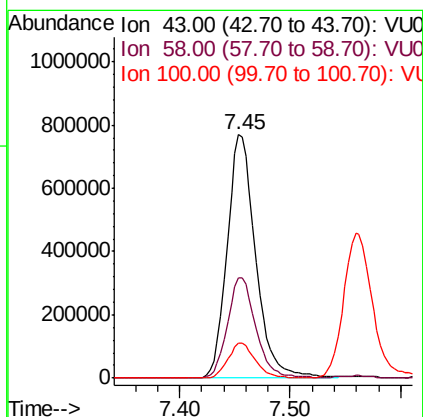
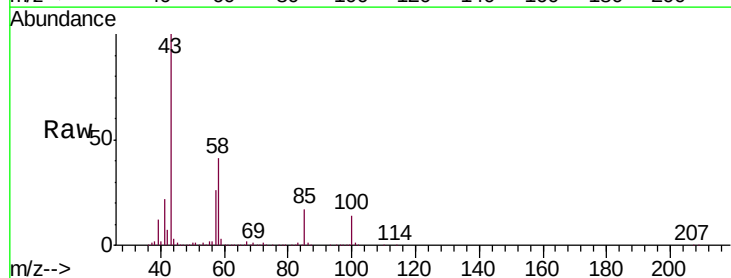
Tgt Ion: 75 Resp: 679376
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.1 41.1

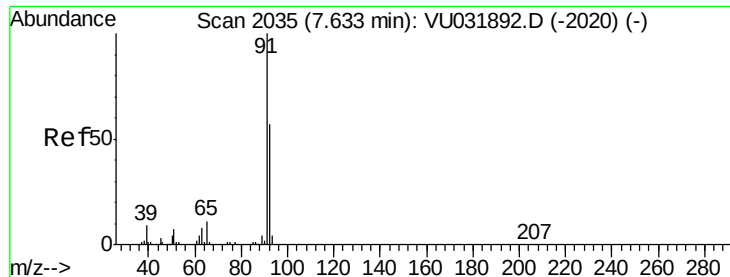


#40

4-Methyl-2-pentanone
 Concen: 79.860 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

Tgt Ion: 43 Resp: 1381762
 Ion Ratio Lower Upper
 43 100
 58 41.1 30.1 45.1
 100 14.0 9.6 14.4





#42

Toluene

Concen: 47.996 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

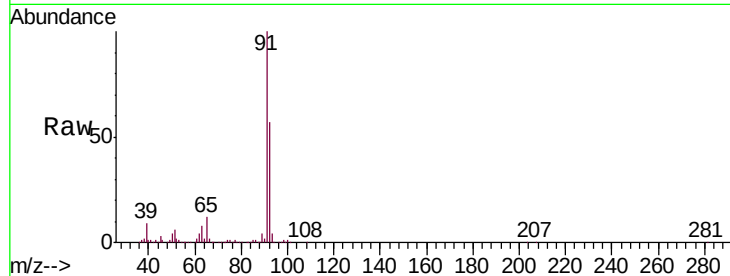
VSTD05041

Tgt Ion: 91 Resp: 1893922

Ion Ratio Lower Upper

91 100

92 57.5 39.0 72.4



Abundance Ion 91.00 (90.70 to 91.70): VU031892.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031892.D (-2020) (-)

7.63

1200000

1000000

800000

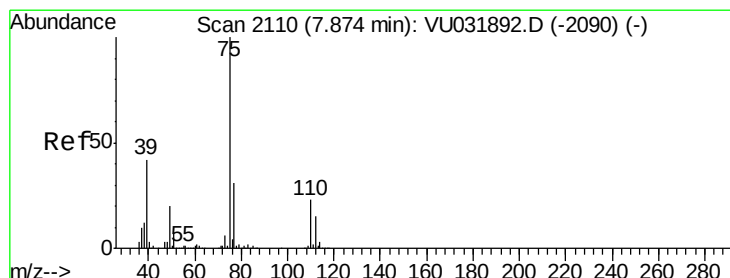
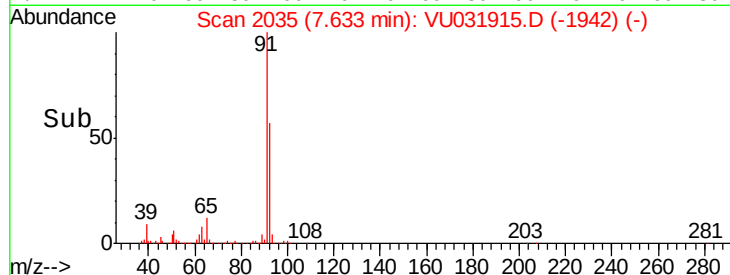
600000

400000

200000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 44.232 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031915.D

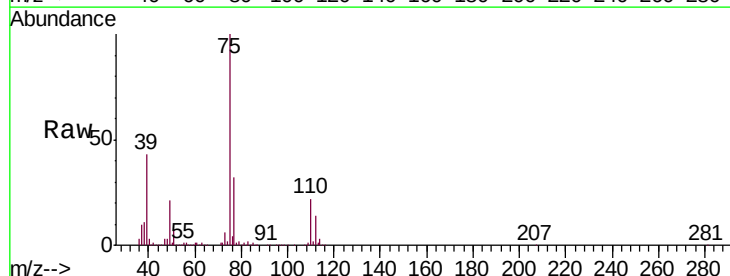
Acq: 11 May 2019 02:15

Tgt Ion: 75 Resp: 596164

Ion Ratio Lower Upper

75 100

77 31.7 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU031892.D (-2090) (-)

Ion 77.00 (76.70 to 77.70): VU031892.D (-2090) (-)

7.87

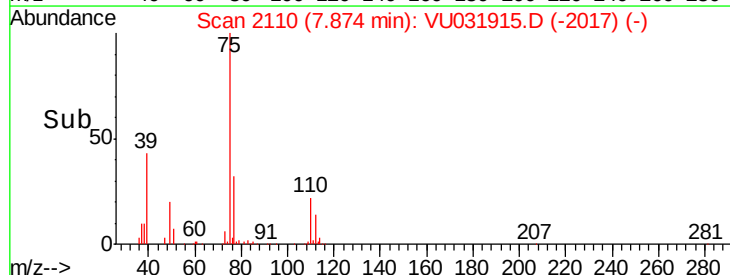
300000

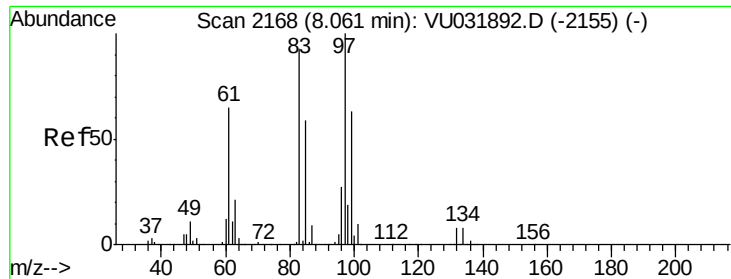
200000

100000

0

Time-->

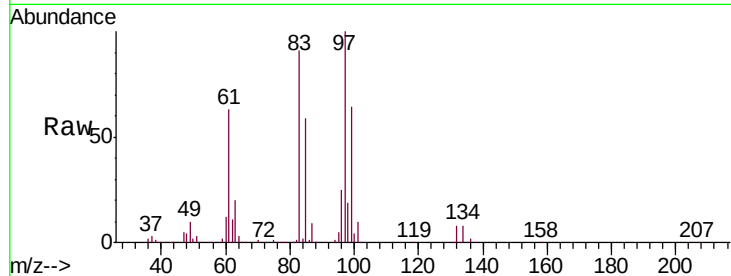




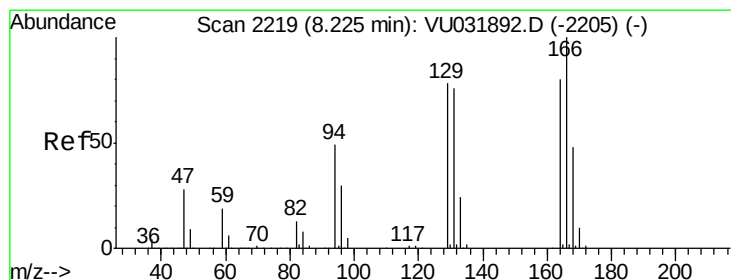
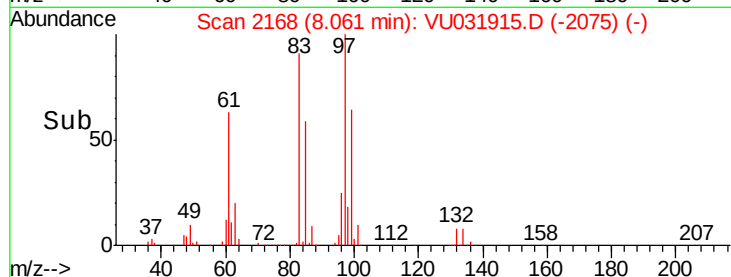
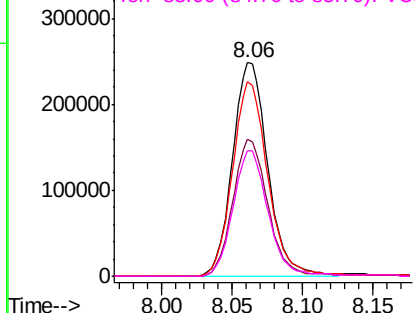
#45
 1,1,2-Trichloroethane
 Concen: 46.968 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tgt Ion:	97	Resp:	435448
Ion	Ratio	Lower	Upper
97	100		
99	64.1	43.0	80.0
83	91.1	63.6	118.2
85	58.9	40.5	75.3

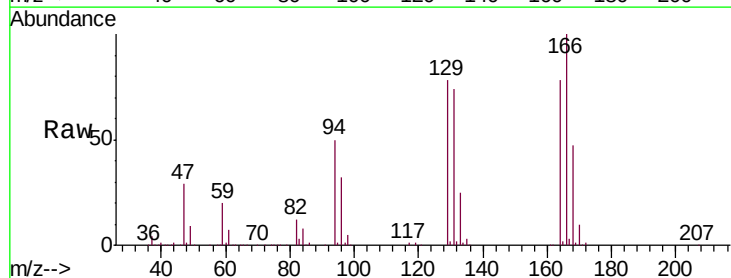


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

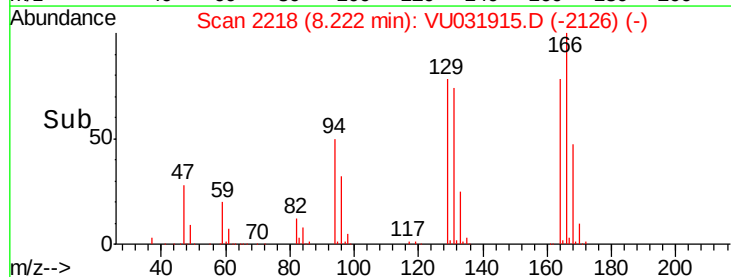
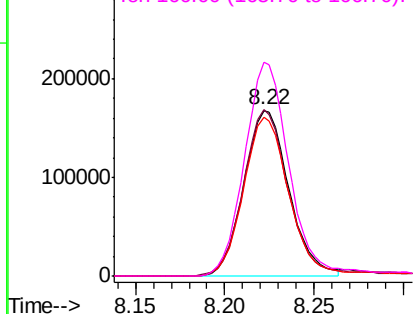


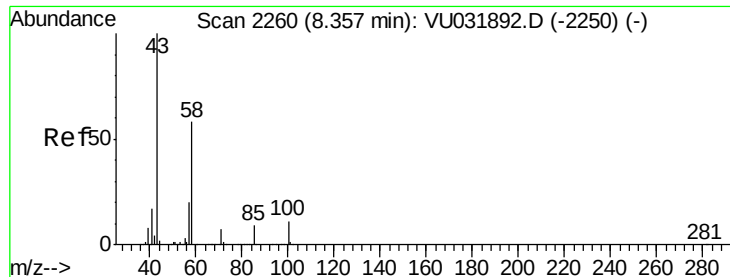
#46
 Tetrachloroethene
 Concen: 45.161 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

Tgt Ion:	164	Resp:	295639
Ion	Ratio	Lower	Upper
164	100		
129	100.3	71.5	132.9
131	95.5	69.0	128.2
166	128.9	93.7	173.9



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

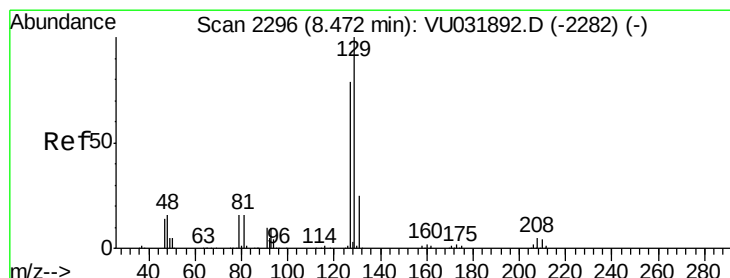
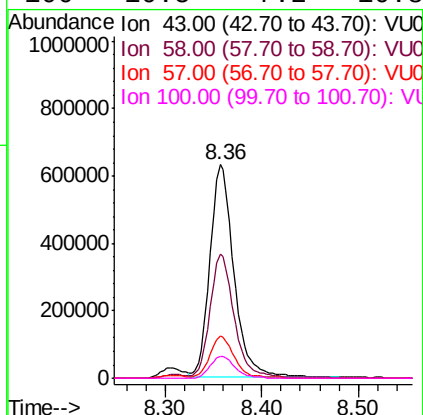
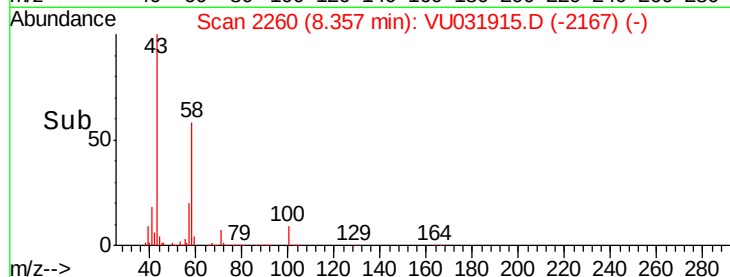
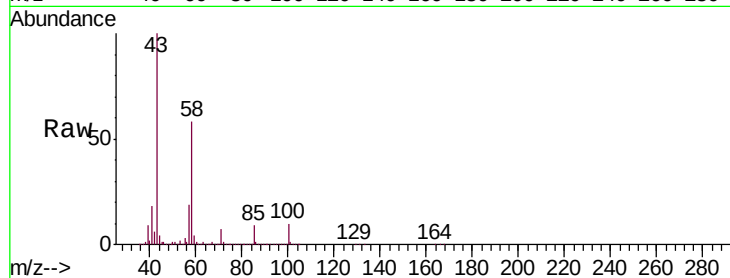




#48
2-Hexanone
Concen: 78.161 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU031915.D
Acq: 11 May 2019 02:15

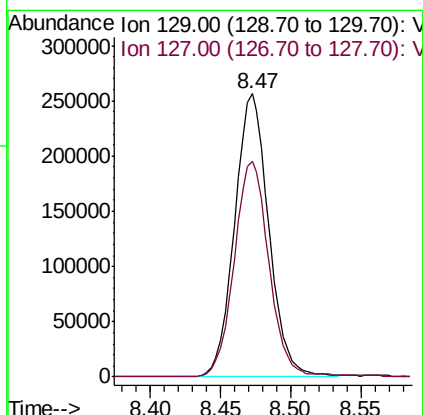
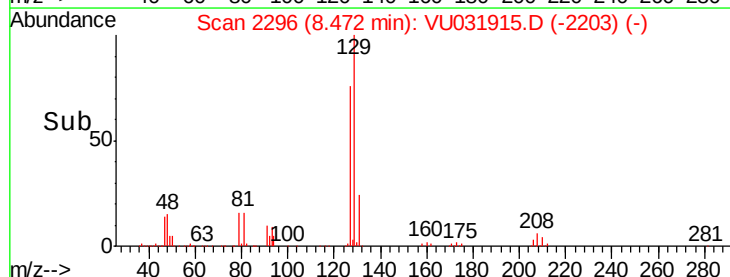
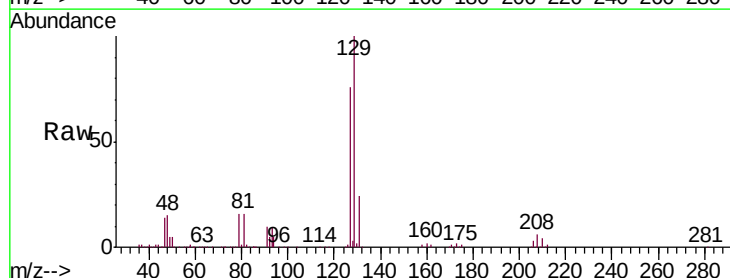
Instrument :
MSVOA_U
ClientSampleId :
VSTD05041

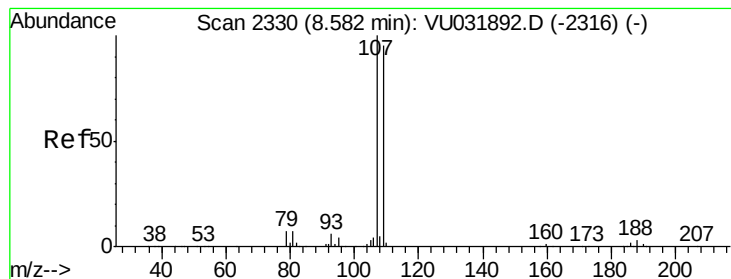
Tgt Ion: 43 Resp: 1093778
Ion Ratio Lower Upper
43 100
58 58.0 42.1 63.1
57 20.4 14.6 22.0
100 10.5 7.2 10.8



#49
Dibromochloromethane
Concen: 45.153 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031915.D
Acq: 11 May 2019 02:15

Tgt Ion: 129 Resp: 435563
Ion Ratio Lower Upper
129 100
127 76.3 54.0 100.2





#50

1,2-Dibromoethane

Concen: 47.196 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

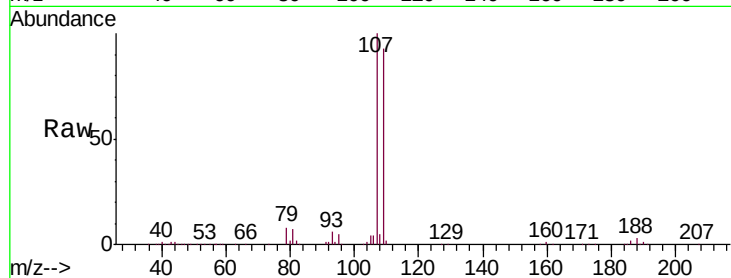
Tgt Ion:107 Resp: 462120

Ion Ratio Lower Upper

107 100

109 92.9 64.9 120.5

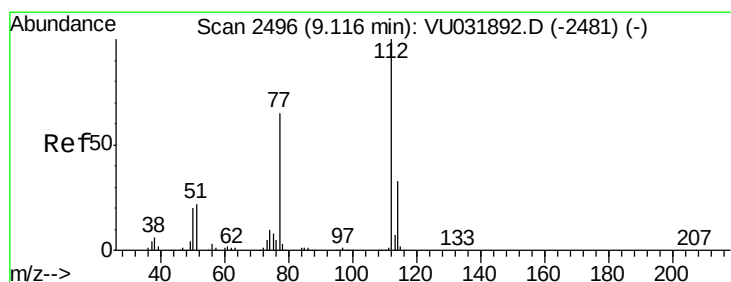
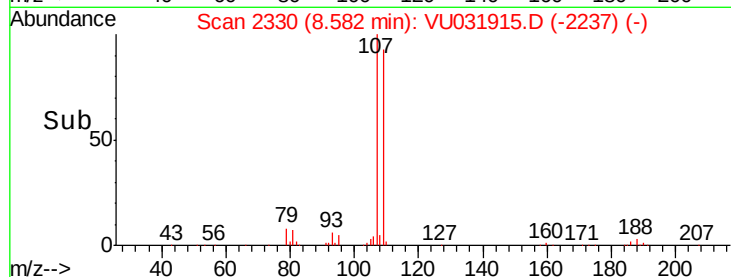
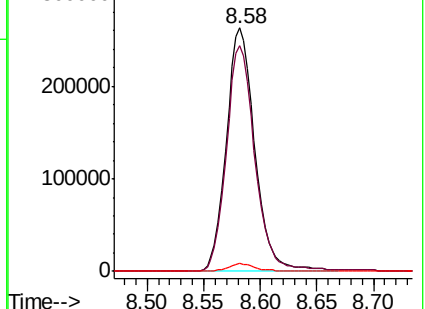
188 3.2 2.4 3.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 47.594 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

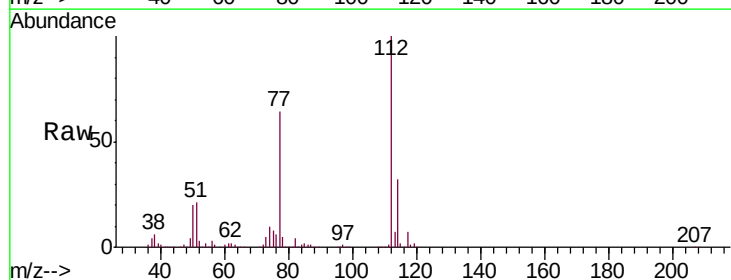
Tgt Ion:112 Resp: 1109828

Ion Ratio Lower Upper

112 100

114 32.4 23.3 43.3

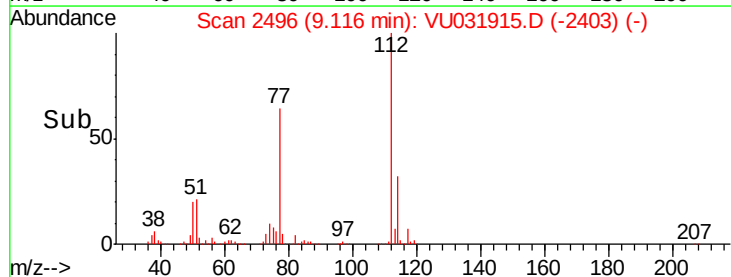
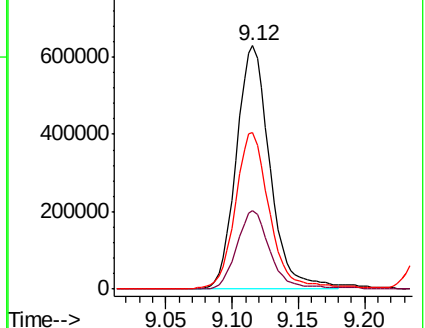
77 64.3 53.0 79.4

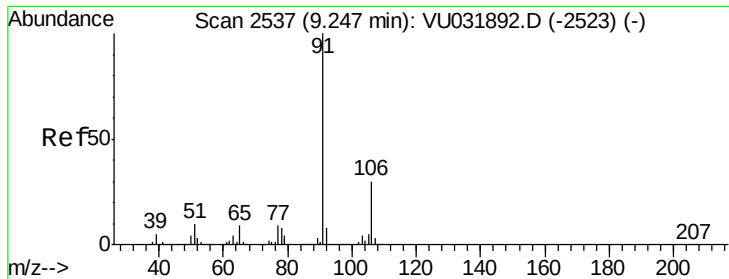


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 49.573 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

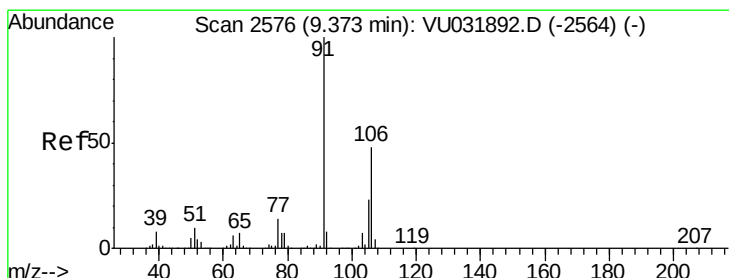
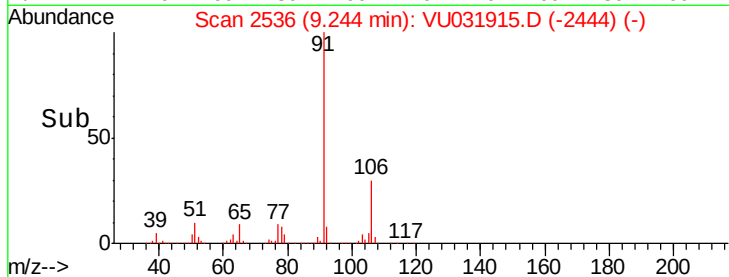
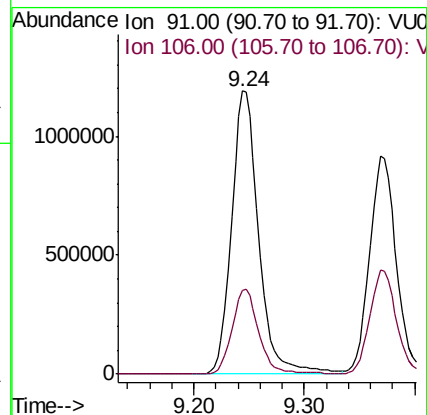
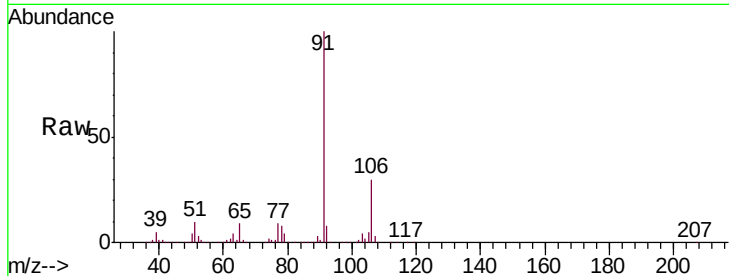
VSTD05041

Tgt Ion: 91 Resp: 2029149

Ion Ratio Lower Upper

91 100

106 29.5 20.4 37.8



#53

m,p-Xylene

Concen: 53.131 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031915.D

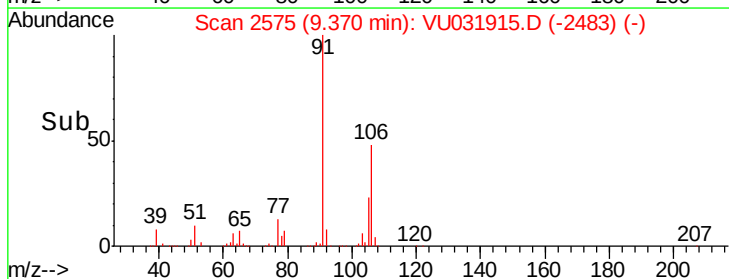
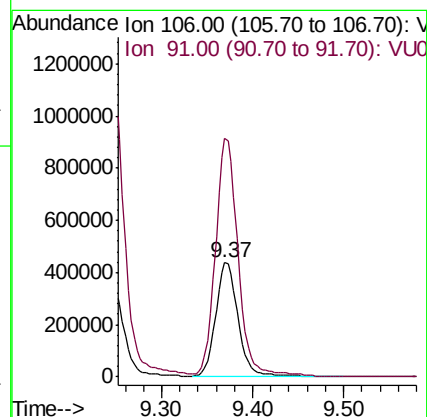
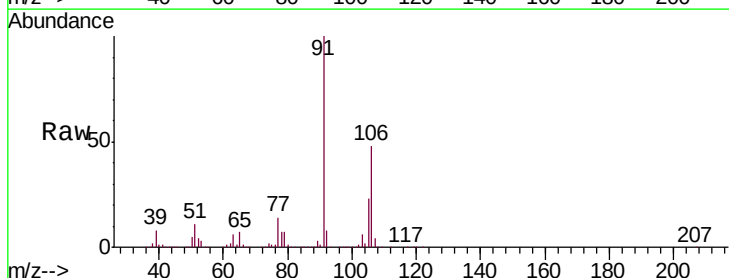
Acq: 11 May 2019 02:15

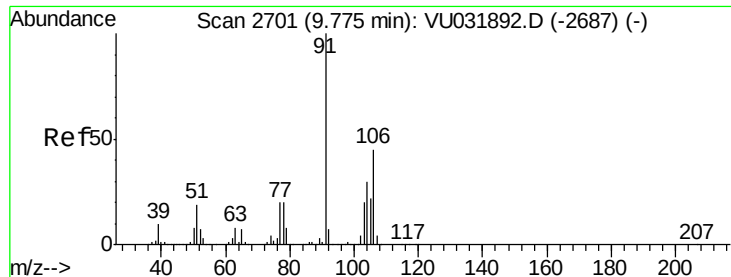
Tgt Ion: 106 Resp: 757718

Ion Ratio Lower Upper

106 100

91 209.6 152.2 282.6





#54

o-xylene

Concen: 53.147 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

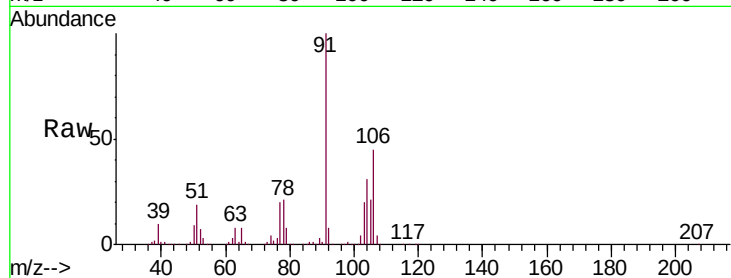
VSTD05041

Tgt Ion:106 Resp: 751438

Ion Ratio Lower Upper

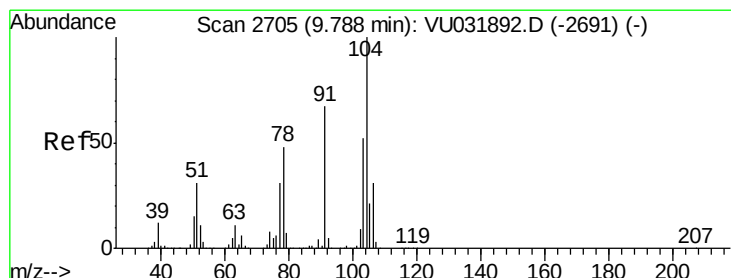
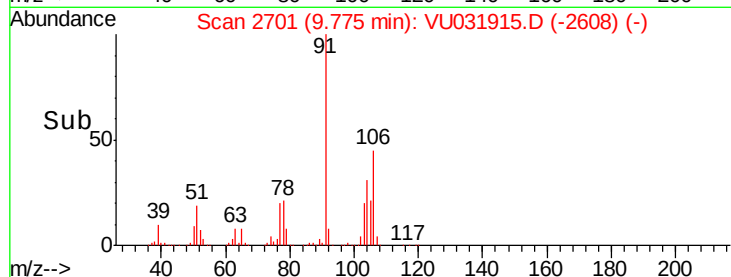
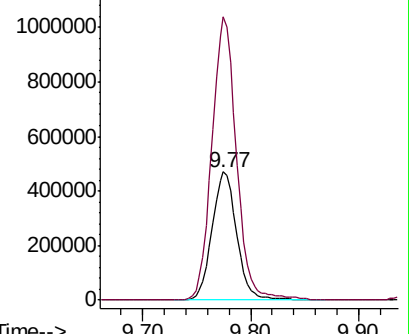
106 100

91 221.1 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.128 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031915.D

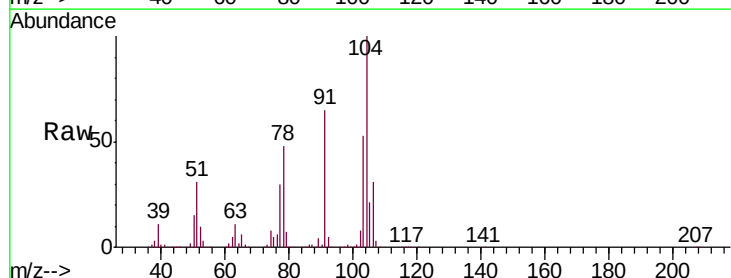
Acq: 11 May 2019 02:15

Tgt Ion:104 Resp: 1283351

Ion Ratio Lower Upper

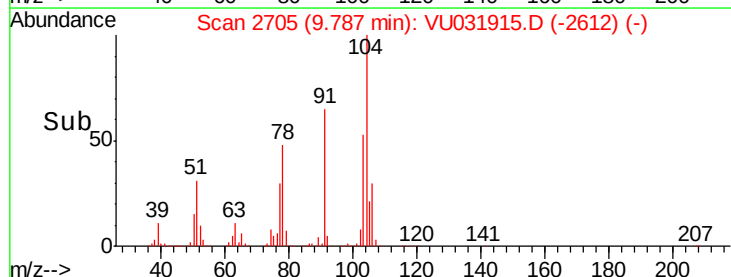
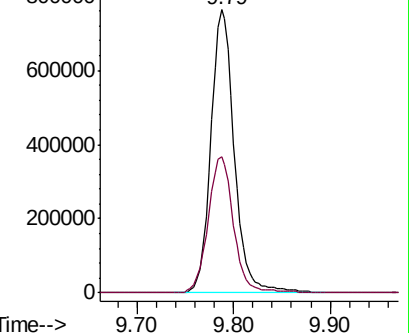
104 100

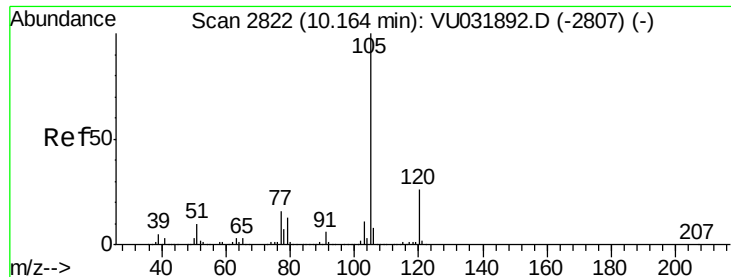
78 48.2 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.707 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

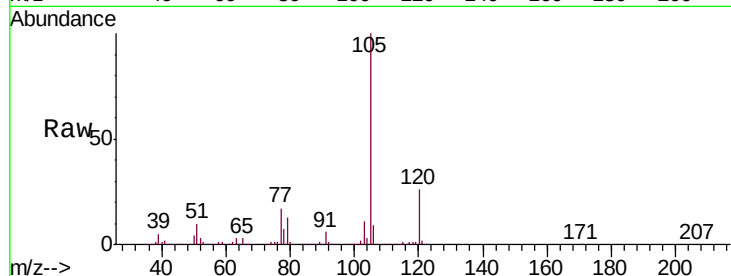
Tgt Ion:105 Resp: 1885229

Ion Ratio Lower Upper

105 100

120 25.5 20.1 30.1

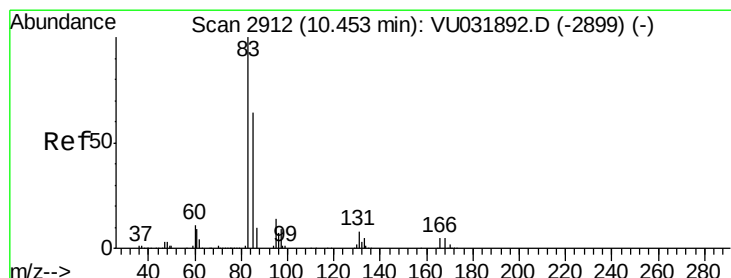
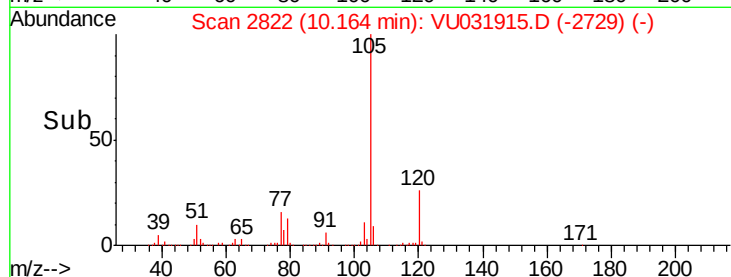
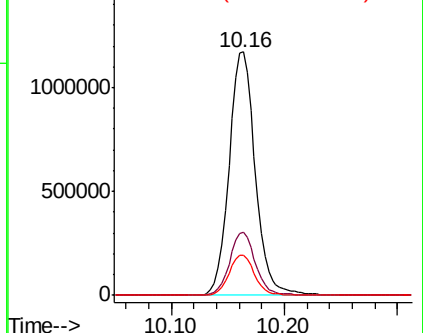
77 16.4 13.8 20.6



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: 46.567 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

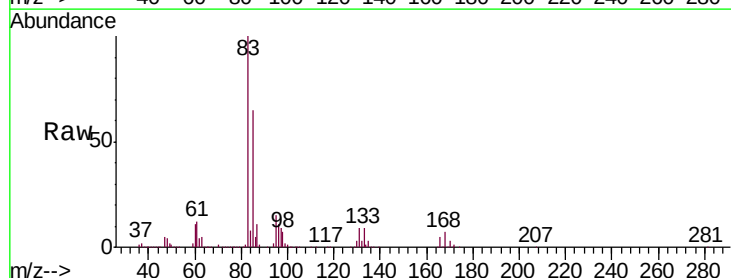
Tgt Ion: 83 Resp: 766093

Ion Ratio Lower Upper

83 100

85 64.8 46.0 85.4

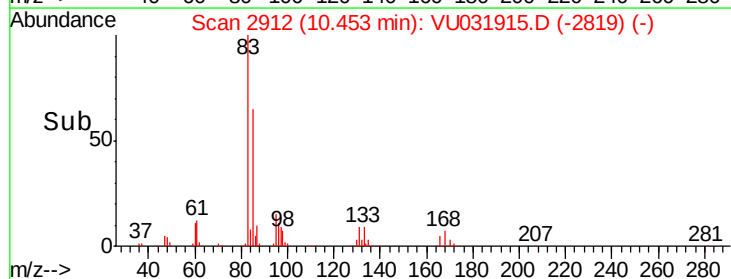
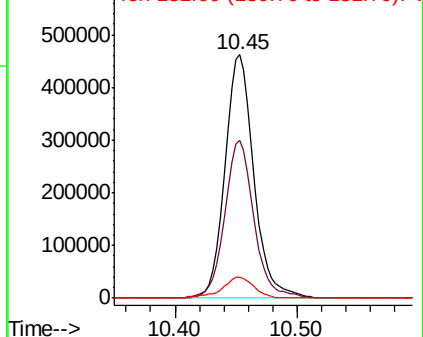
131 8.7 7.3 10.9

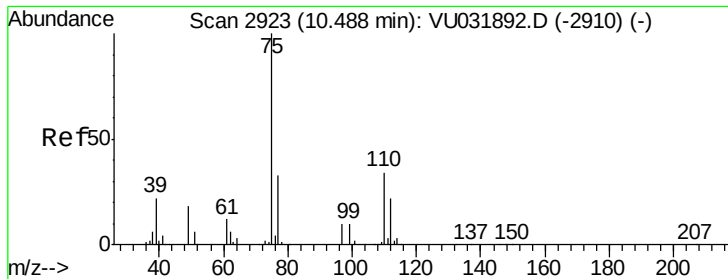


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 45.934 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

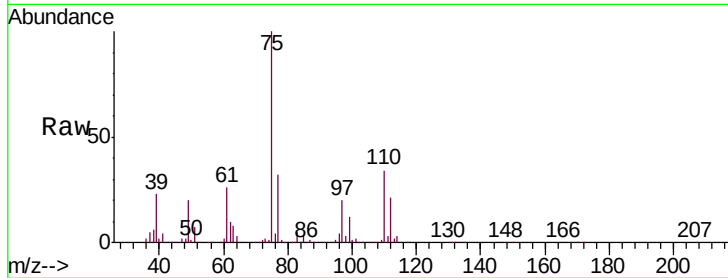
VSTD05041

Tgt Ion: 75 Resp: 612455

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VU031892.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031892.D (-2910) (-)

10.49

400000

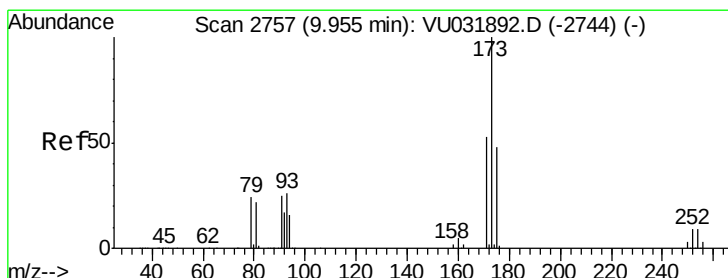
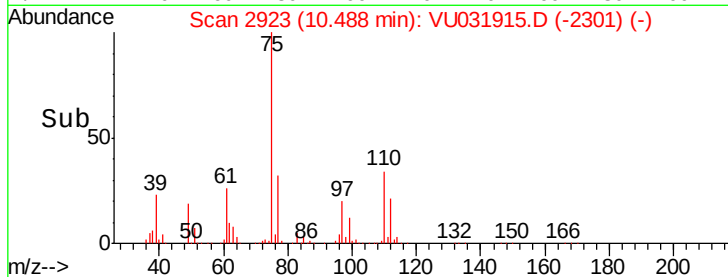
300000

200000

100000

0

Time-->



#61

Bromoform

Concen: 43.782 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

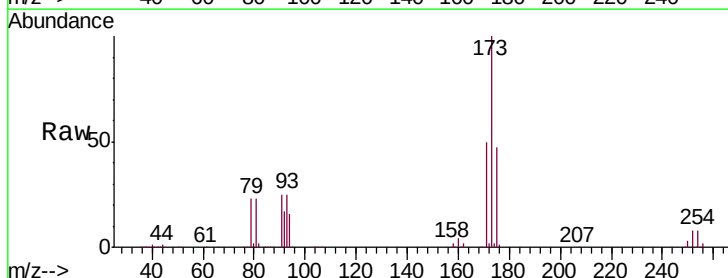
Tgt Ion: 173 Resp: 305747

Ion Ratio Lower Upper

173 100

175 47.7 38.3 57.5

254 8.1 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VU031892.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU031892.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU031892.D (-2744) (-)

9.95

250000

200000

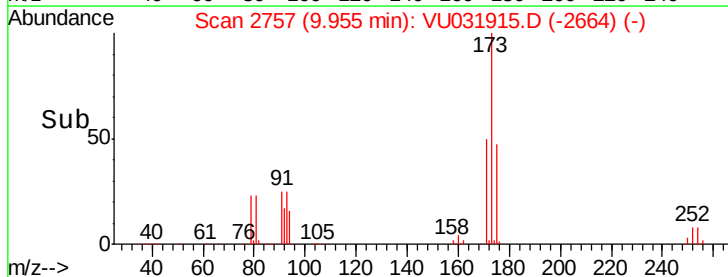
150000

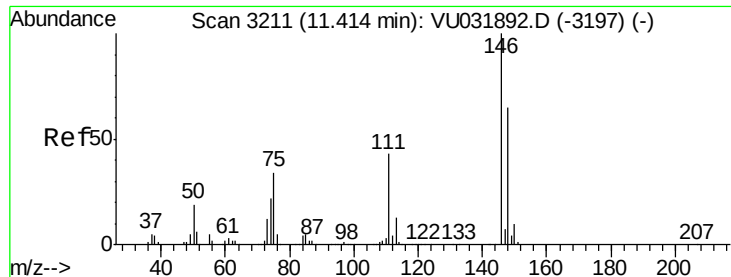
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 49.488 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05041

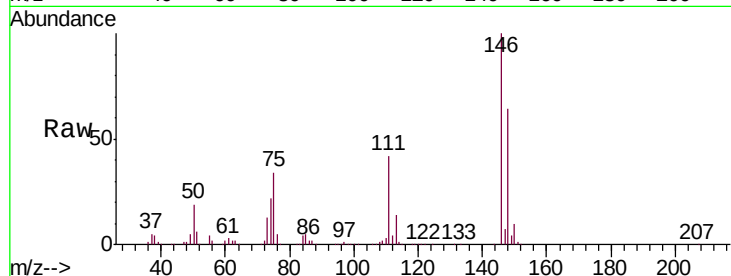
Tgt Ion:146 Resp: 771731

Ion Ratio Lower Upper

146 100

111 42.5 29.8 55.4

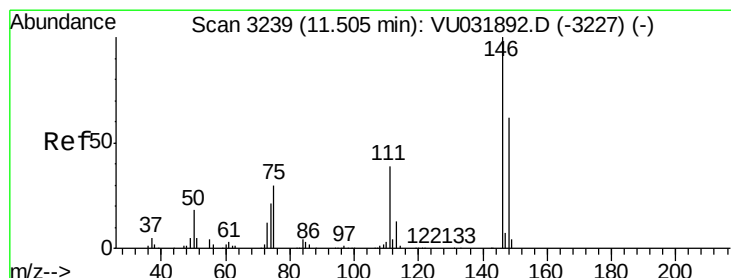
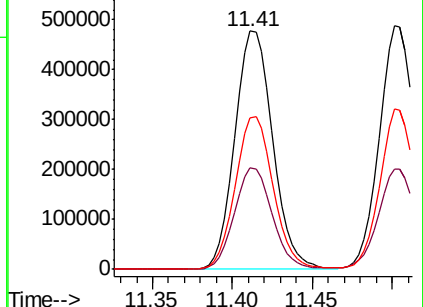
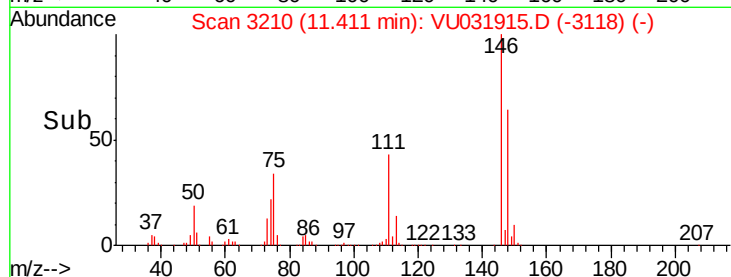
148 63.5 45.1 83.9



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: 48.642 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

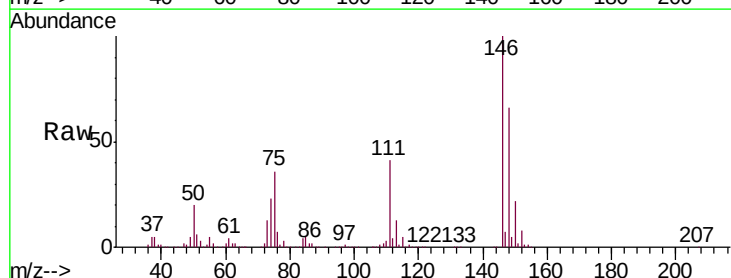
Tgt Ion:146 Resp: 785577

Ion Ratio Lower Upper

146 100

111 41.3 28.2 52.4

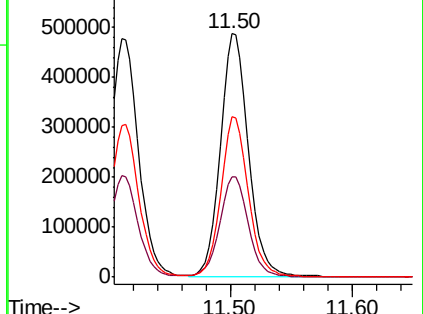
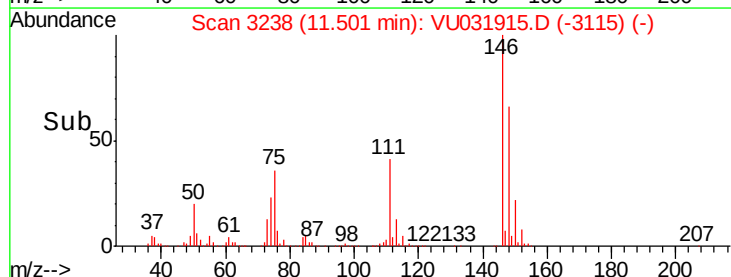
148 65.8 45.4 84.4

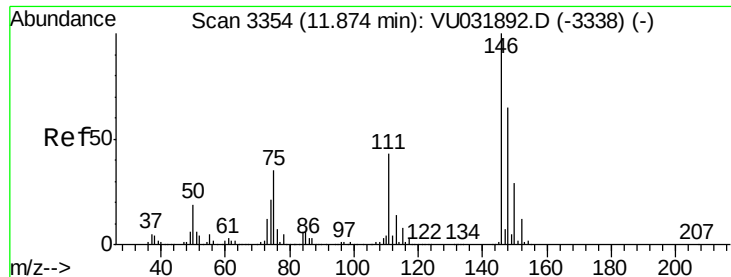


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

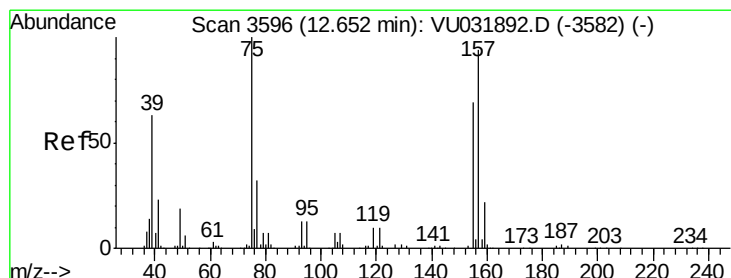
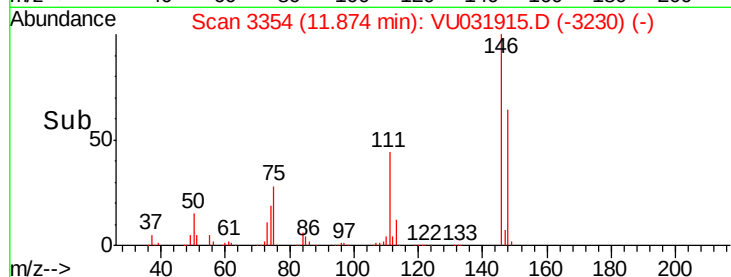
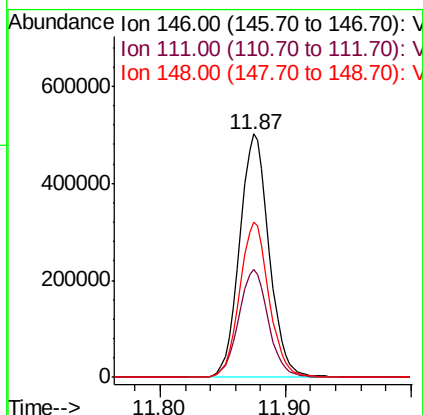
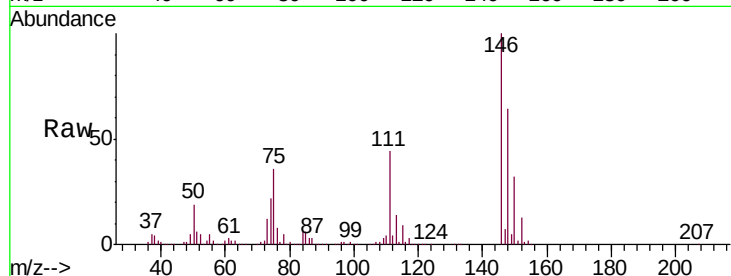




#65
 1,2-Dichlorobenzene
 Concen: 49.416 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

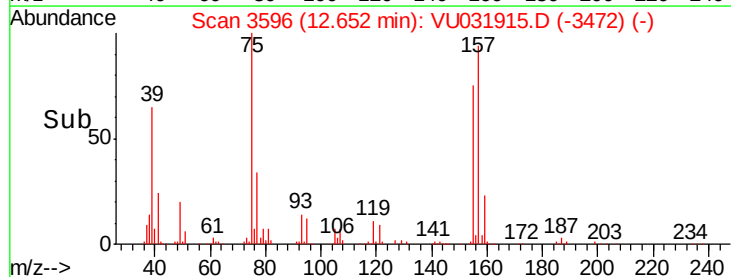
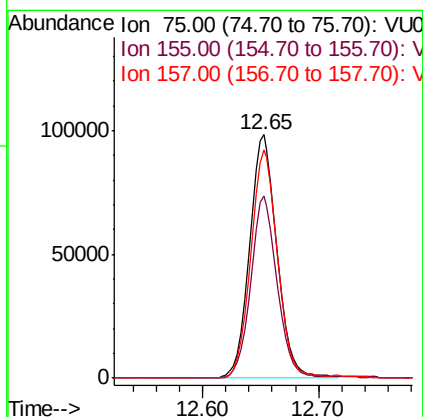
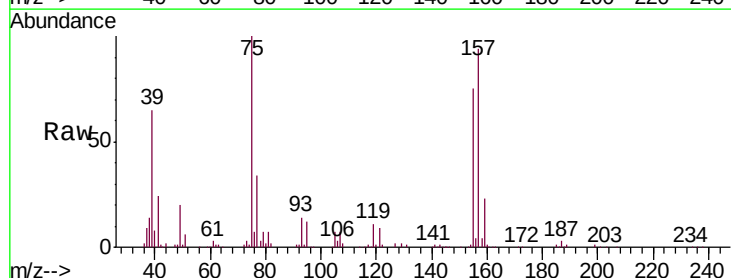
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

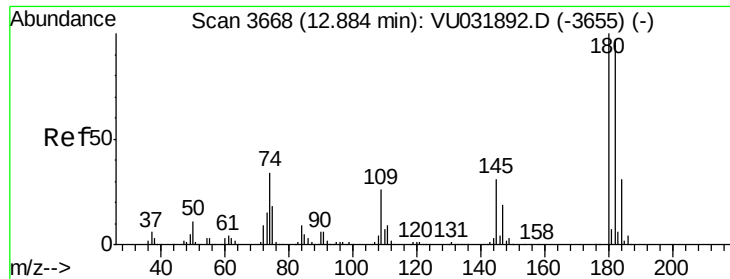
Tgt Ion: 146 Resp: 818993
 Ion Ratio Lower Upper
 146 100
 111 44.4 35.9 53.9
 148 63.9 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 42.114 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

Tgt Ion: 75 Resp: 161993
 Ion Ratio Lower Upper
 75 100
 155 75.1 54.0 81.0
 157 93.7 69.1 103.7

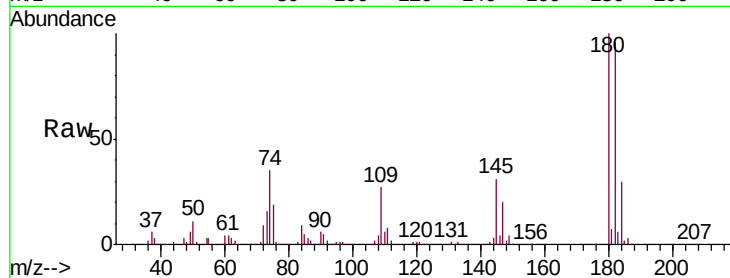




#67
 1,3,5-Trichlorobenzene
 Concen: 46.483 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05041

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	77.3	115.9
184	30.0	24.4	36.6
145	30.6	23.8	35.8



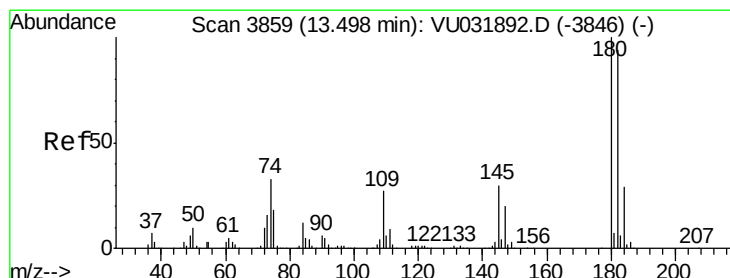
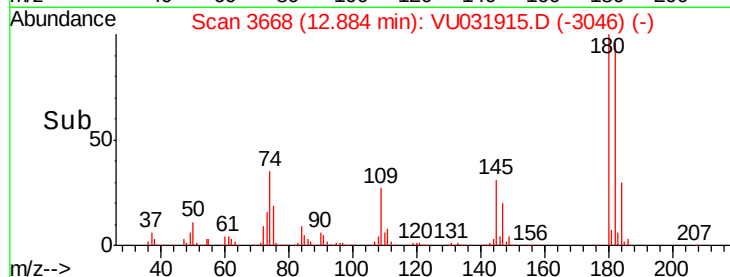
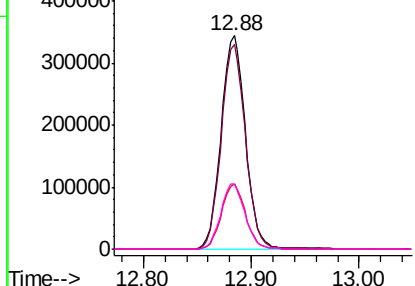
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

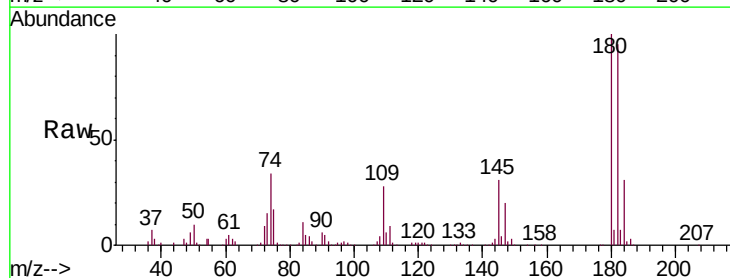
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.391 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031915.D
 Acq: 11 May 2019 02:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.8	113.8
145	30.5	24.5	36.7

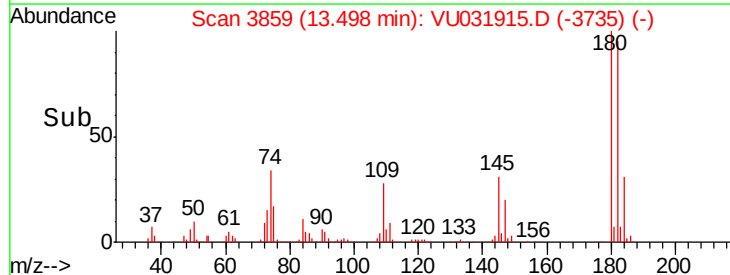
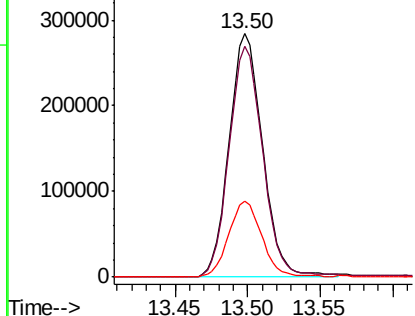


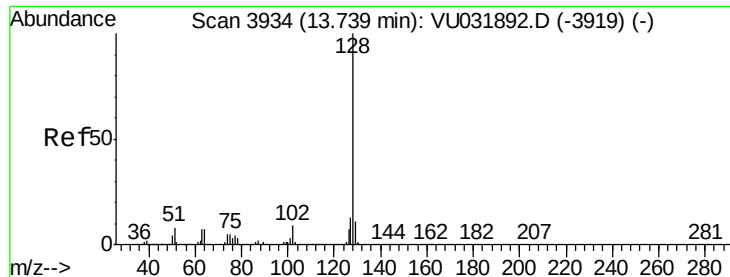
Abundance

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: 54.964 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

Instrument :

MSVOA_U

ClientSampled :

VSTD05041

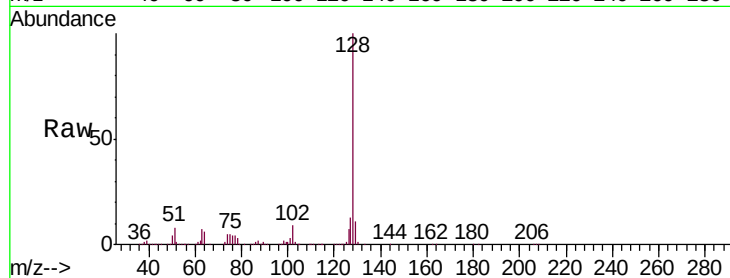
Tgt Ion:128 Resp: 1732816

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

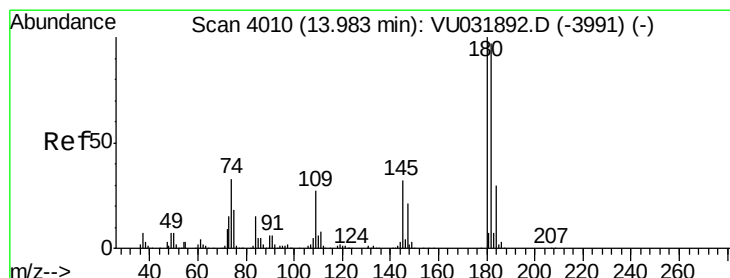
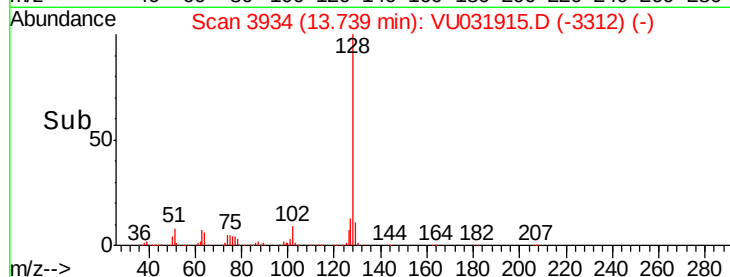
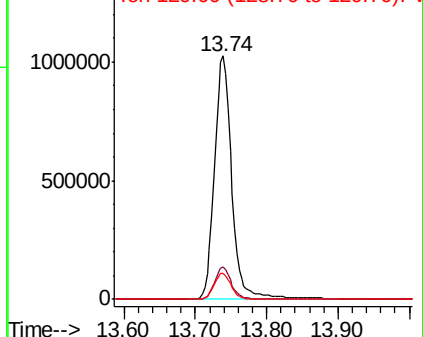
129 10.5 8.7 13.1



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: 47.871 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031915.D

Acq: 11 May 2019 02:15

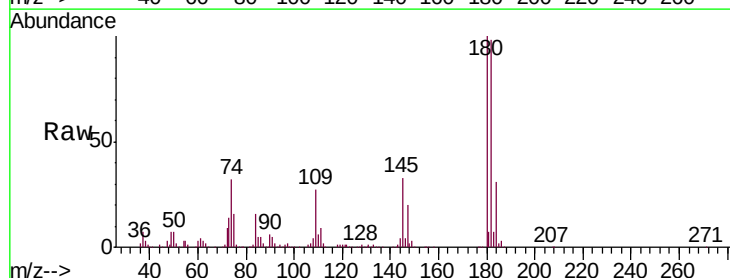
Tgt Ion:180 Resp: 503944

Ion Ratio Lower Upper

180 100

182 97.4 76.1 114.1

145 33.2 26.0 39.0



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

