

Data File : VU031569.D
Acq On : 27 Apr 2019 06:29
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 54 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

Quant Time: Apr 29 01:03:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Apr 29 01:00:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	819718	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	771024	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	334248	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	298159	43.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.92%
7) Chloroethane-d5	1.68	69	237766	44.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.70%
11) 1,1-Dichloroethene-d2	2.27	63	614761	45.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.00%
21) 2-Butanone-d5	4.19	46	675065	108.60	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.60%
24) Chloroform-d	4.64	84	582797	46.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.76%
26) 1,2-Dichloroethane-d4	5.31	65	383605	46.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.46%
32) Benzene-d6	5.34	84	1127783	47.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.26%
36) 1,2-Dichloropropane-d6	6.32	67	402908	48.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.74%
41) Toluene-d8	7.56	98	992601	48.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.26%
43) trans-1,3-Dichloropropene-	7.85	79	163661	45.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.54%
47) 2-Hexanone-d5	8.31	63	408040	113.17	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.17%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	538332	48.16	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.32%
64) 1,2-Dichlorobenzene-d4	11.85	152	339216	48.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.52%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	391944	43.482	ug/L	99
3) Chloromethane	1.32	50	495091	45.396	ug/L	99
5) Vinyl chloride	1.40	62	464569	45.562	ug/L	100
6) Bromomethane	1.63	94	229069	42.601	ug/L	99
8) Chloroethane	1.70	64	254950	45.742	ug/L	98
9) Trichlorofluoromethane	1.88	101	518972	44.648	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	284408	43.284	ug/L	99
12) 1,1-Dichloroethene	2.28	96	294244	46.008	ug/L	96
13) Acetone	2.34	43	473431	67.616	ug/L	97
14) Carbon disulfide	2.47	76	939667	44.277	ug/L	99
15) Methyl Acetate	2.62	43	512951	48.417	ug/L	98
16) Methylene chloride	2.70	84	347327	46.019	ug/L	96
17) trans-1,2-Dichloroethene	2.98	96	308507	46.294	ug/L	96
18) Methyl tert-butyl Ether	2.99	73	1075688	50.665	ug/L	99
19) 1,1-Dichloroethane	3.44	63	670448	47.771	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	349827	48.937	ug/L	98
22) 2-Butanone	4.27	43	754761	97.298	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	160370	46.169	ug/L	98
25) Chloroform	4.67	83	627989	46.793	ug/L	99
27) 1,2-Dichloroethane	5.40	62	507288	46.536	ug/L	96
29) Cyclohexane	4.99	56	612007	50.153	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	504939	46.741	ug/L	99
31) Carbon tetrachloride	5.13	117	426095	46.147	ug/L	100
33) Benzene	5.39	78	1365079	48.155	ug/L	100
34) Trichloroethene	6.18	95	349615	50.879	ug/L	97
35) Methylcyclohexane	6.41	83	486028	47.196	ug/L	99
37) 1,2-Dichloropropane	6.43	63	394496	49.020	ug/L	99
38) Bromodichloromethane	6.75	83	466572	47.816	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	532806	50.105	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	1326305	107.119	ug/L	100
42) Toluene	7.63	91	1400600	49.600	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	453289	46.998	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	325880	49.120	ug/L	99
46) Tetrachloroethene	8.22	164	214603	45.811	ug/L	94
48) 2-Hexanone	8.36	43	1054894	105.341	ug/L	100
49) Dibromochloromethane	8.47	129	329036	47.666	ug/L	97
50) 1,2-Dibromoethane	8.58	107	340601	48.610	ug/L	98
51) Chlorobenzene	9.12	112	806205	48.314	ug/L	98
52) Ethylbenzene	9.24	91	1469339	50.163	ug/L	99
53) m,p-Xylene	9.37	106	526510	51.591	ug/L	98
54) o-xylene	9.77	106	521476	51.541	ug/L	99
55) Styrene	9.79	104	899773	52.052	ug/L	99
56) Isopropylbenzene	10.16	105	1343510	50.498	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	569929	48.411	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	466098	48.850	ug/L	99
61) Bromoform	9.95	173	229229	46.265	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	540289	48.832	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	547888	47.815	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	565647	48.103	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	131738	48.271	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	384029	46.342	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	317286	48.363	ug/L	95
69) Naphthalene	13.74	128	1217819	54.445	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	351399	47.047	ug/L	97

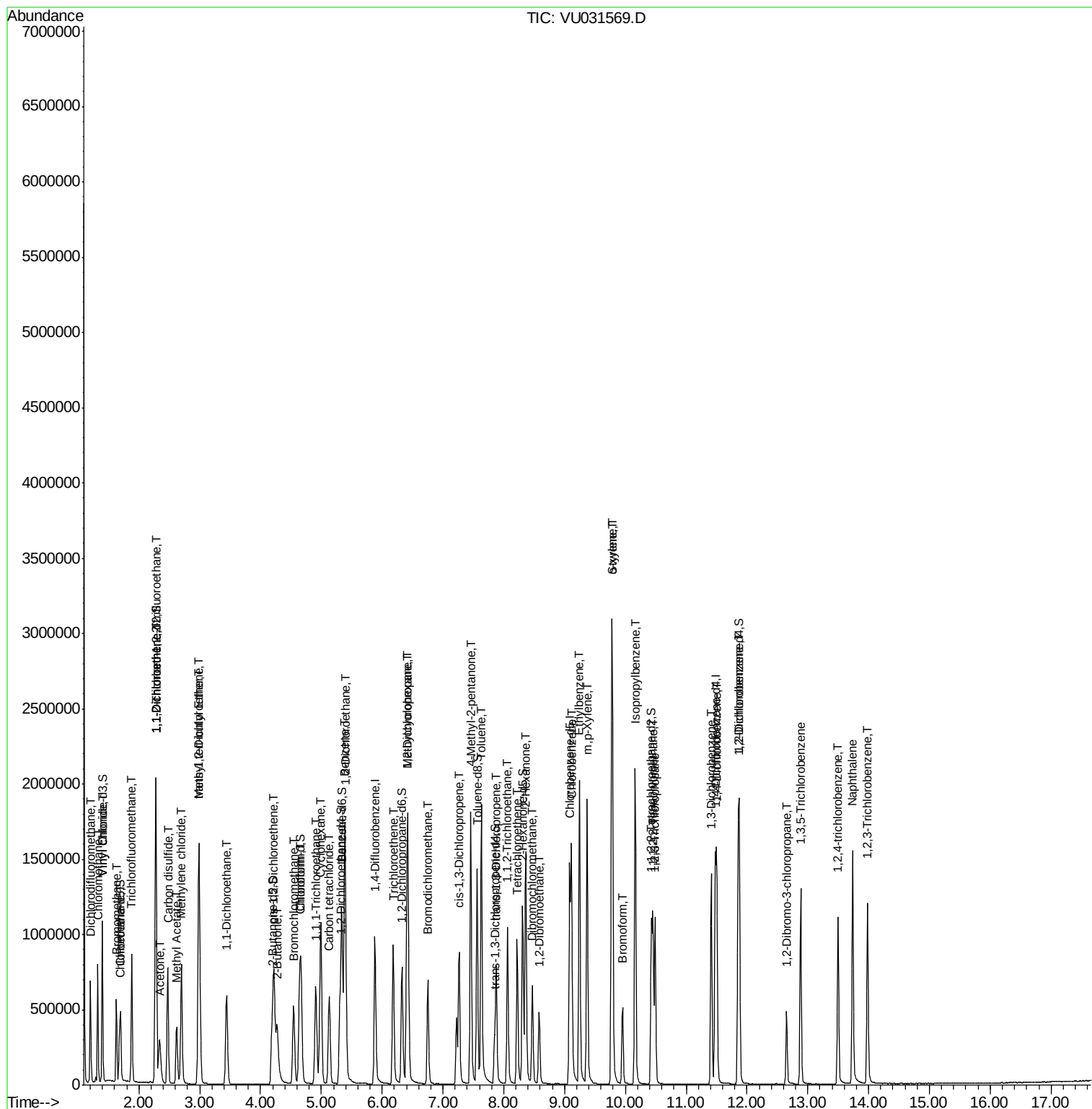
(#) = qualifier out of range (m) = manual integration (+) = signals summed

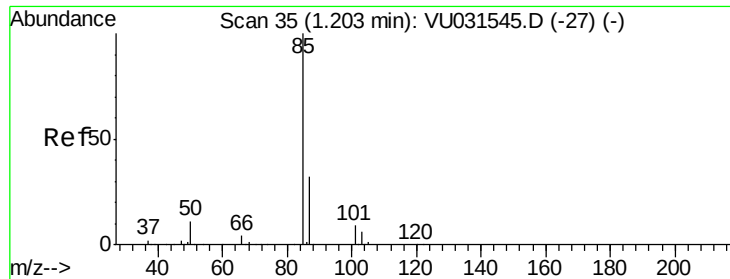
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#2

Dichlorodifluoromethane

Concen: 43.482 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

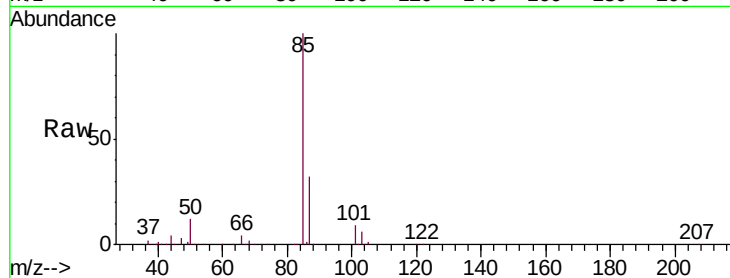
VSTD05051

Tgt Ion: 85 Resp: 391944

Ion Ratio Lower Upper

85 100

87 32.0 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031545.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031545.D (-27) (-)

1.20

400000

300000

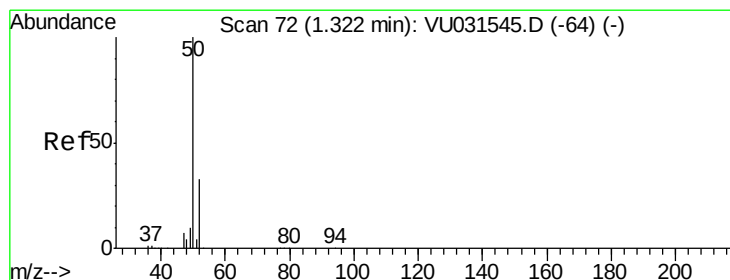
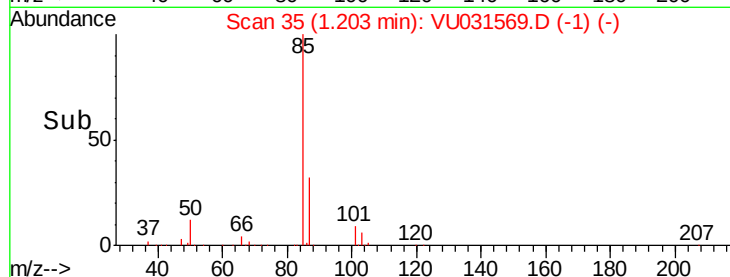
200000

100000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 45.396 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU031569.D

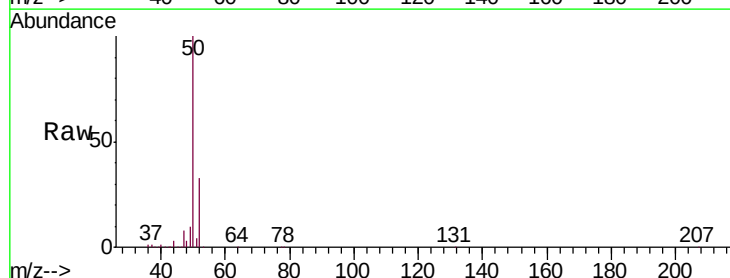
Acq: 27 Apr 2019 06:29

Tgt Ion: 50 Resp: 495091

Ion Ratio Lower Upper

50 100

52 33.1 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031545.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU031545.D (-64) (-)

1.32

500000

400000

300000

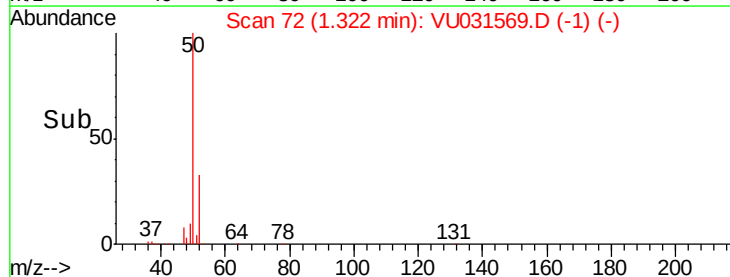
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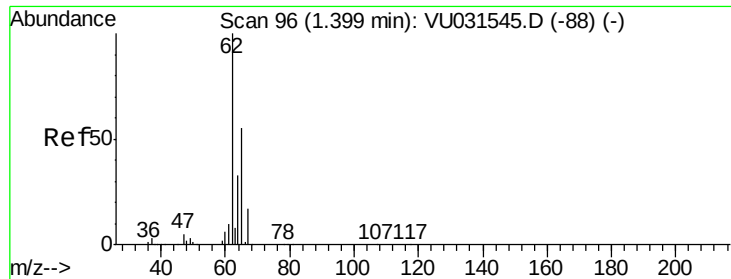
100000

0

1.30 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 45.562 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

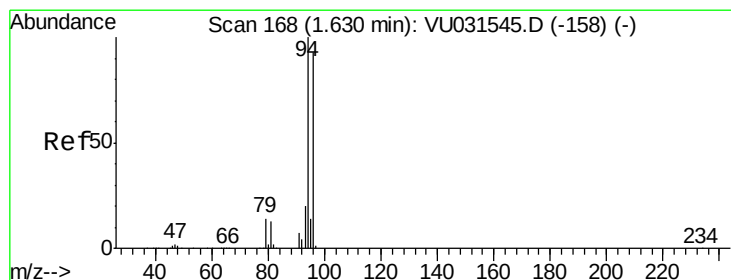
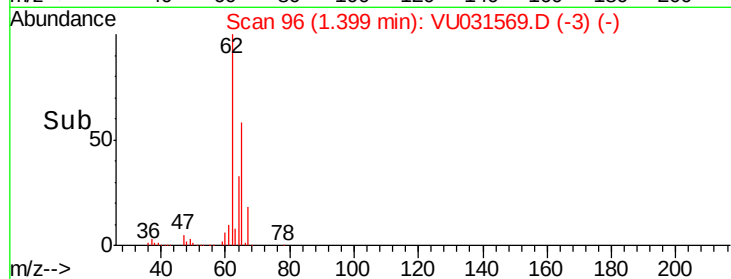
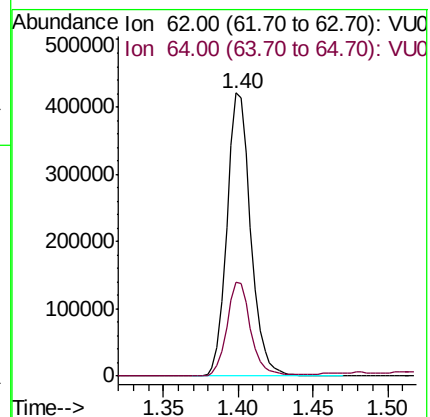
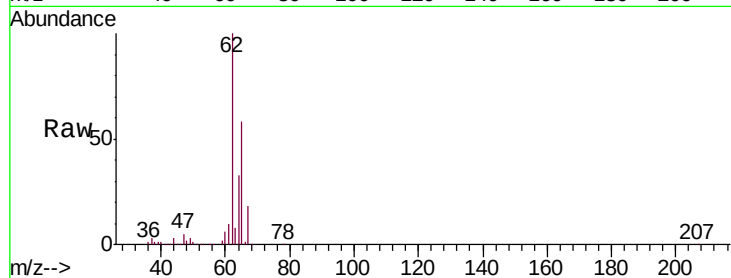
VSTD05051

Tgt Ion: 62 Resp: 464569

Ion Ratio Lower Upper

62 100

64 33.1 23.1 42.9



#6

Bromomethane

Concen: 42.601 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031569.D

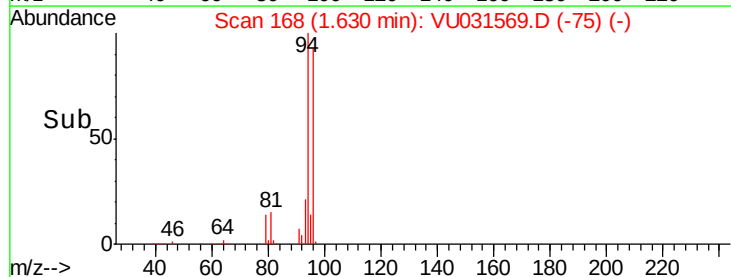
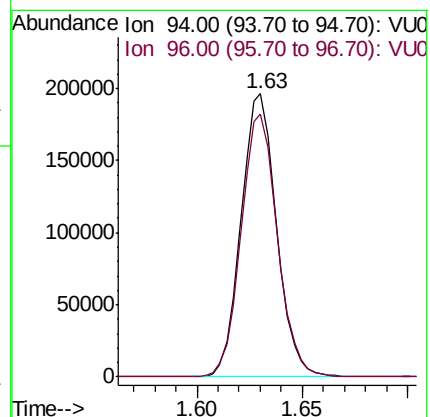
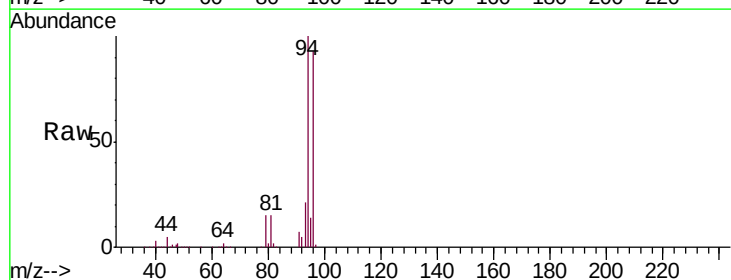
Acq: 27 Apr 2019 06:29

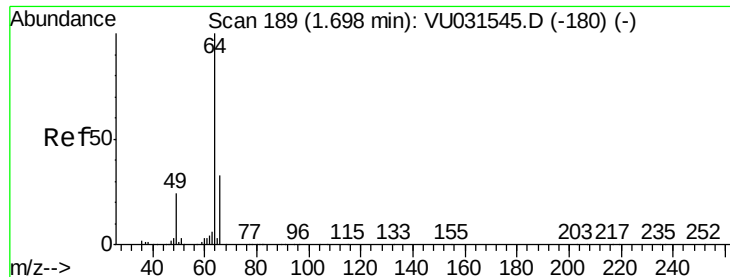
Tgt Ion: 94 Resp: 229069

Ion Ratio Lower Upper

94 100

96 93.1 65.9 122.5

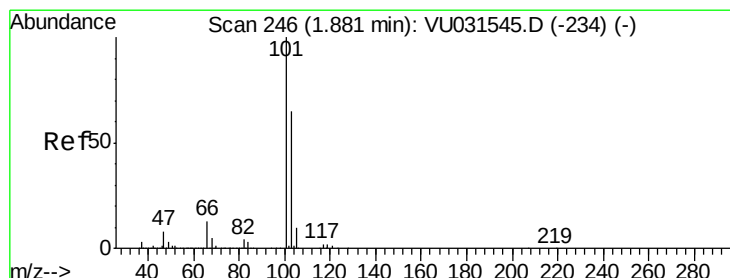
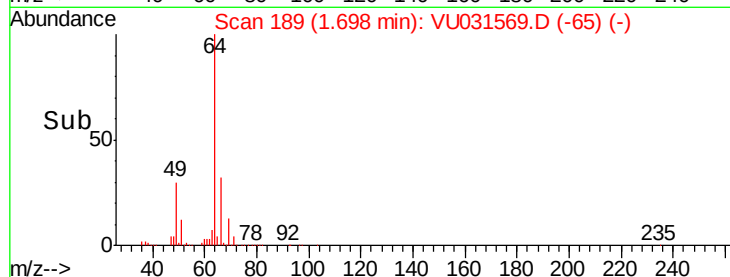
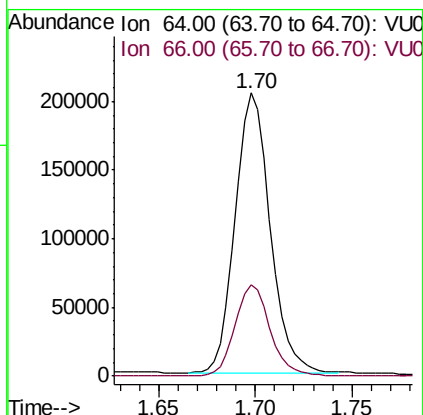
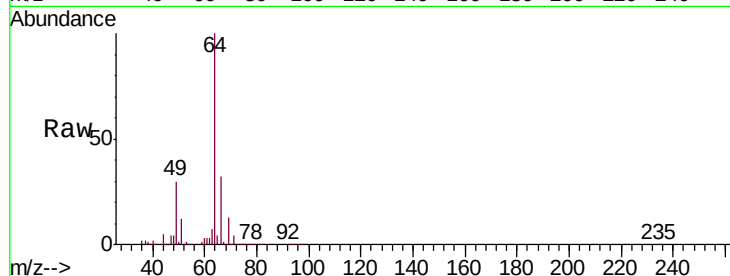




#8
Chloroethane
Concen: 45.742 ug/L
RT: 1.70 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

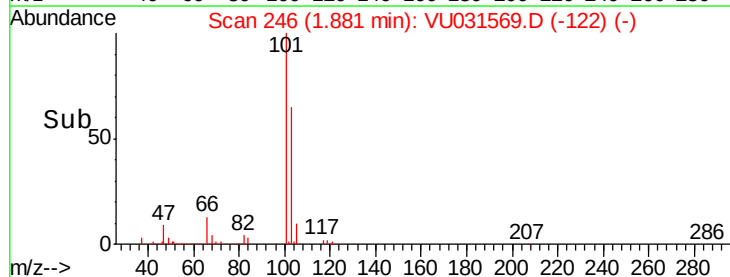
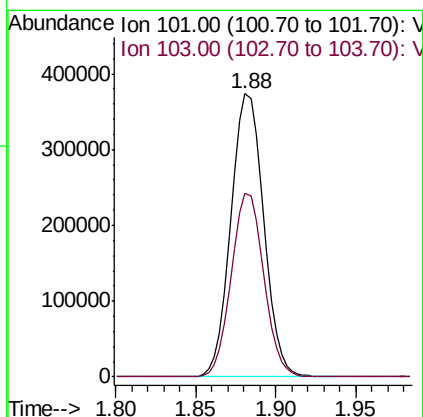
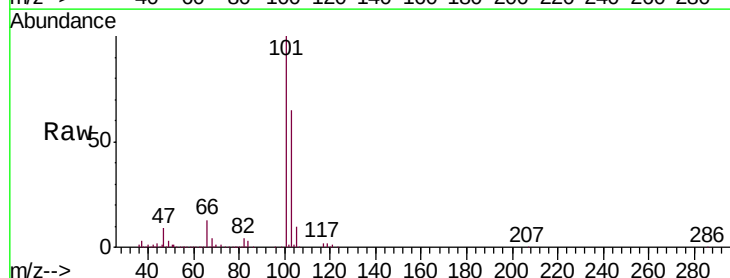
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

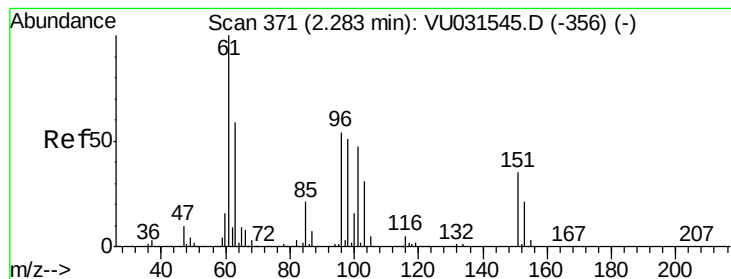
Tgt Ion: 64 Resp: 254950
Ion Ratio Lower Upper
64 100
66 32.2 23.2 43.0



#9
Trichlorofluoromethane
Concen: 44.648 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

Tgt Ion: 101 Resp: 518972
Ion Ratio Lower Upper
101 100
103 64.4 50.8 76.2





#10

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

Concen: 43.284 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampled :

VSTD05051

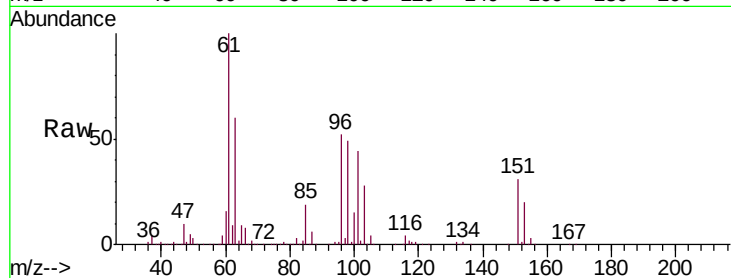
Tgt Ion: 101 Resp: 284408

Ion Ratio Lower Upper

101 100

85 44.2 36.1 54.1

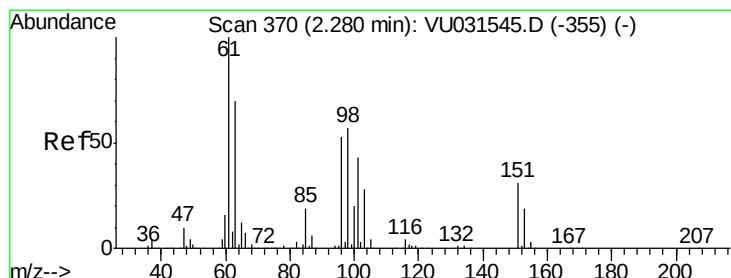
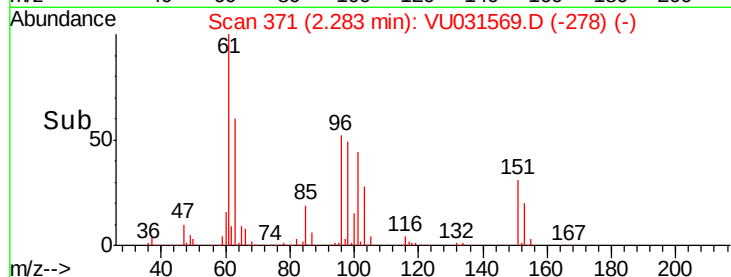
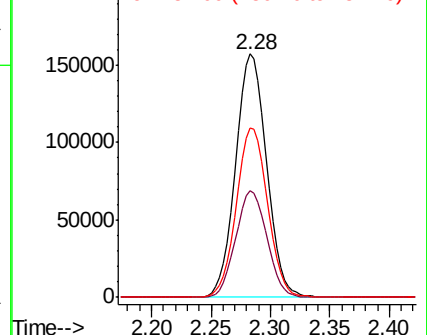
151 70.2 56.1 84.1



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: 46.008 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

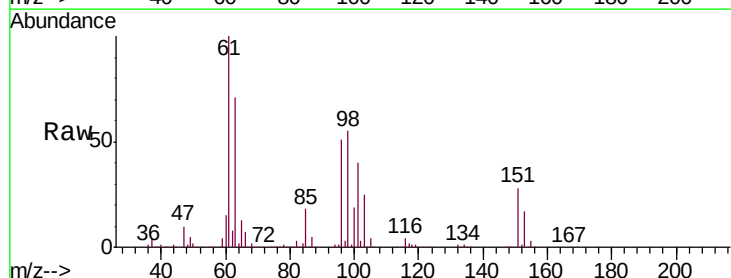
Tgt Ion: 96 Resp: 294244

Ion Ratio Lower Upper

96 100

61 197.2 135.0 250.6

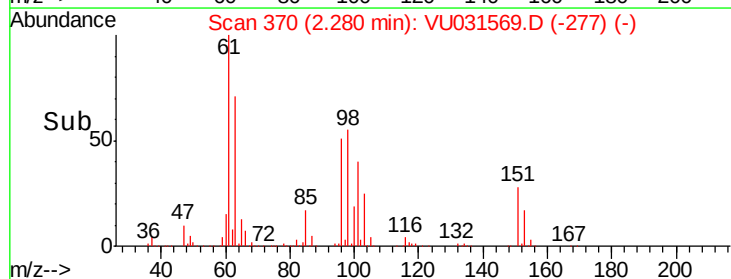
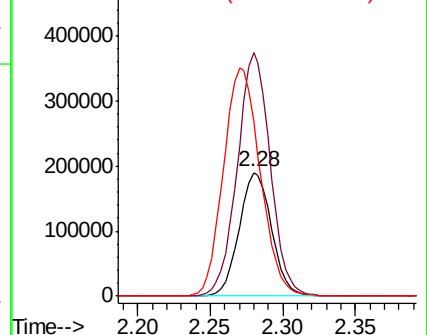
63 140.9 103.5 192.3

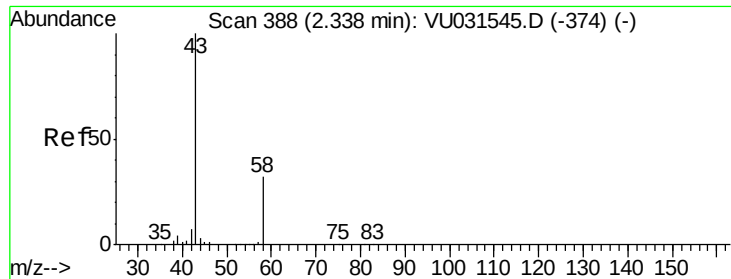


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 67.616 ug/L

RT: 2.34 min Scan# 388

Delta R.T. 0.00 min

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ClientSampleId :

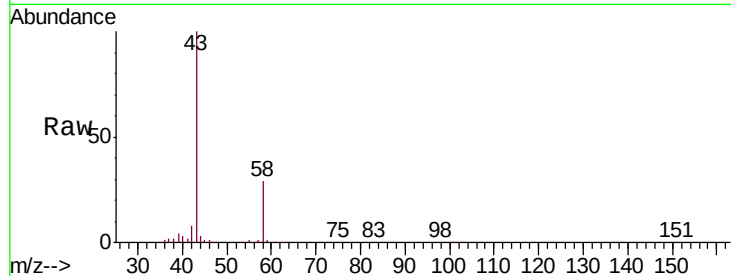
VSTD05051

Tgt Ion: 43 Resp: 473431

Ion Ratio Lower Upper

43 100

58 30.3 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031545.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031545.D (-374) (-)

2.34

200000

150000

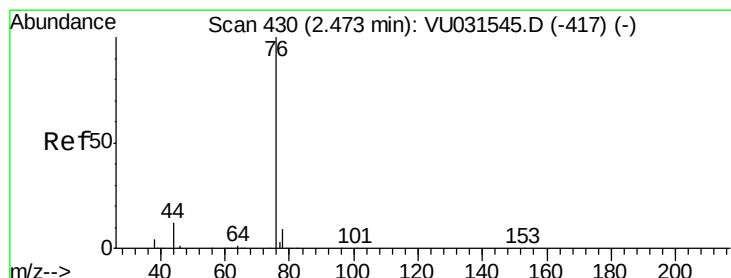
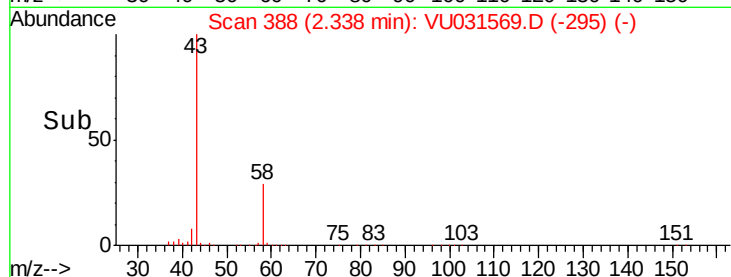
100000

50000

0

2.30 2.35 2.40 2.45 2.50

Time-->



#14

Carbon disulfide

Concen: 44.277 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031569.D

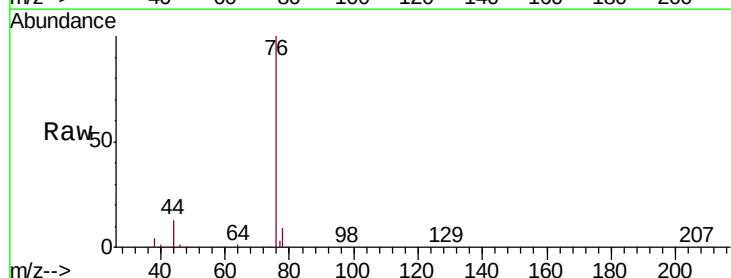
Acq: 27 Apr 2019 06:29

Tgt Ion: 76 Resp: 939667

Ion Ratio Lower Upper

76 100

78 8.7 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031545.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU031545.D (-417) (-)

2.47

600000

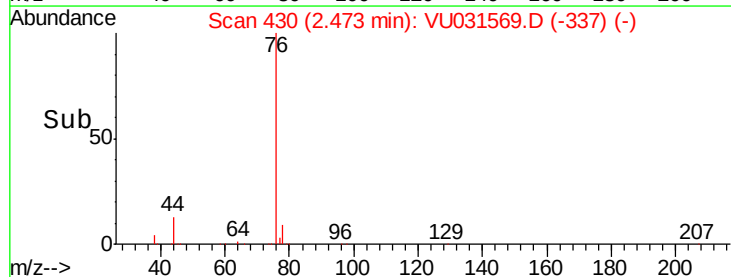
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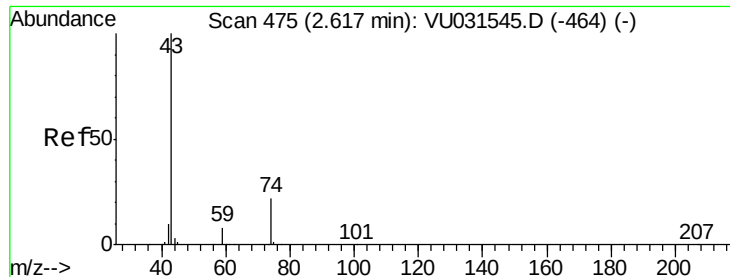
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2.40 2.45 2.50 2.55 2.60

Time-->

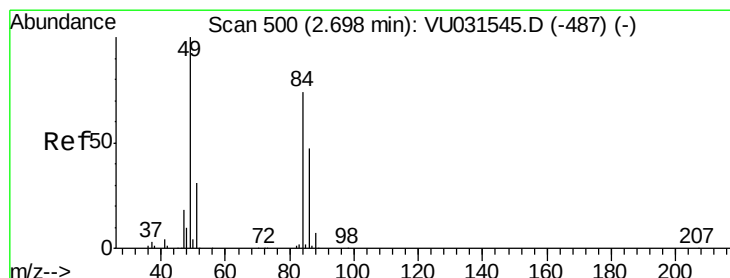
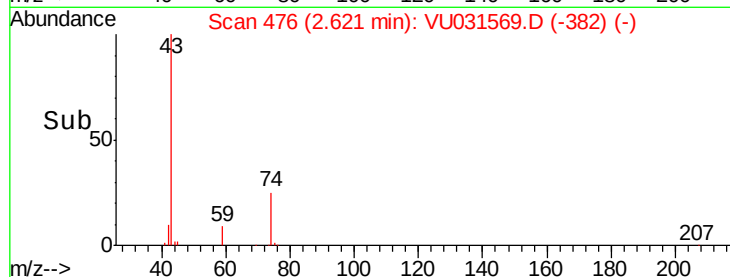
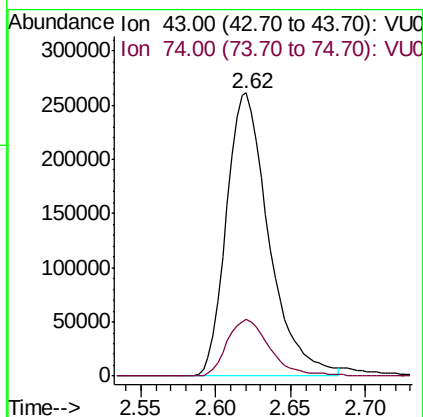
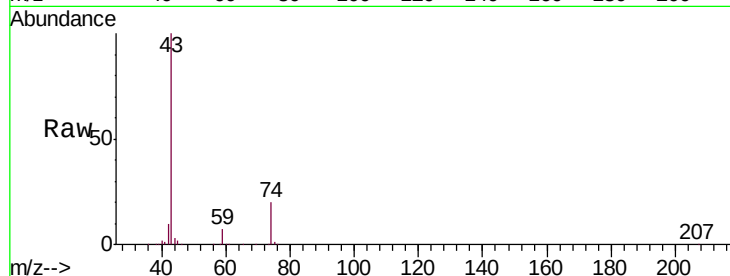




#15
Methyl Acetate
Concen: 48.417 ug/L
RT: 2.62 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

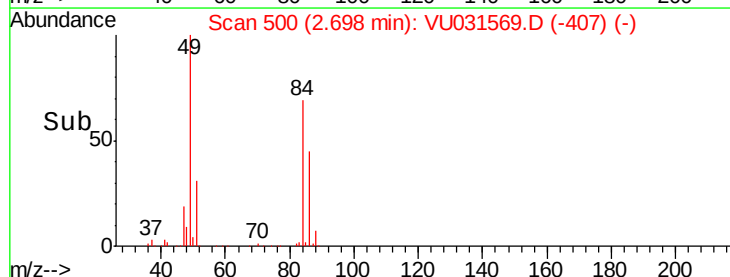
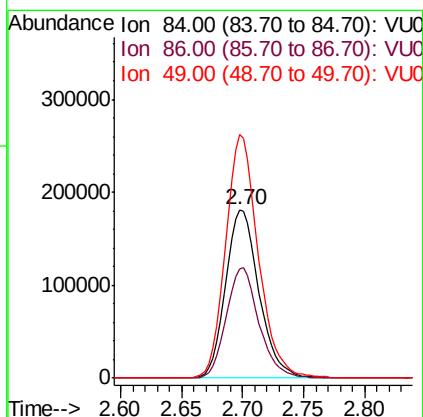
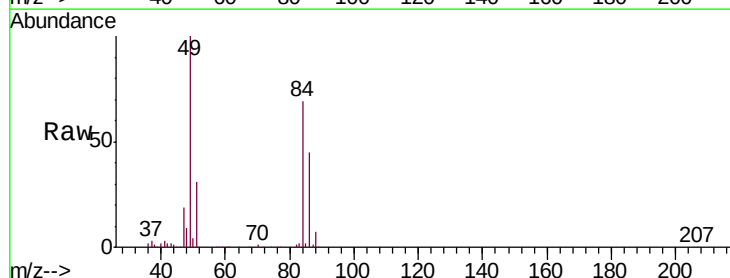
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

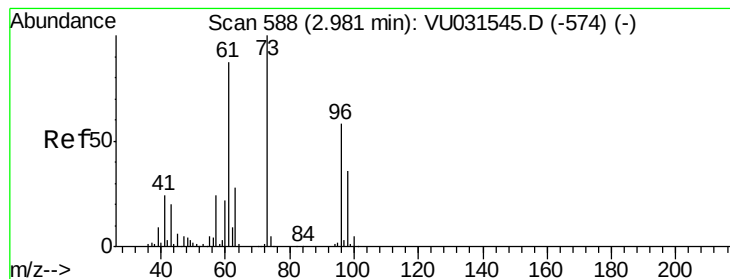
Tgt Ion: 43 Resp: 512951
Ion Ratio Lower Upper
43 100
74 20.4 15.7 23.5



#16
Methylene chloride
Concen: 46.019 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

Tgt Ion: 84 Resp: 347327
Ion Ratio Lower Upper
84 100
86 65.2 44.7 83.1
49 144.5 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 46.294 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampled :

VSTD05051

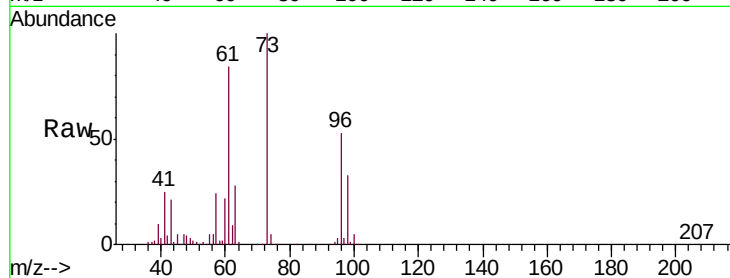
Tgt Ion: 96 Resp: 308507

Ion Ratio Lower Upper

96 100

61 157.6 114.5 212.7

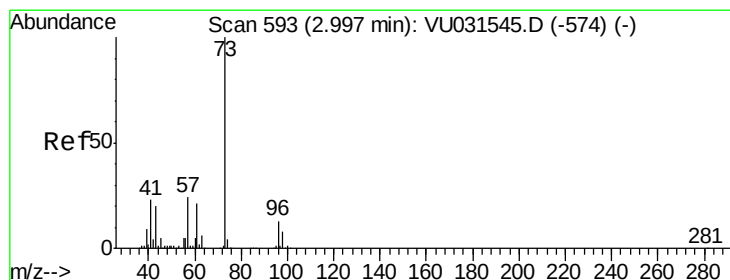
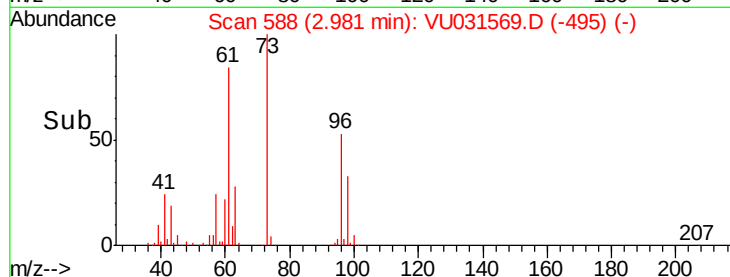
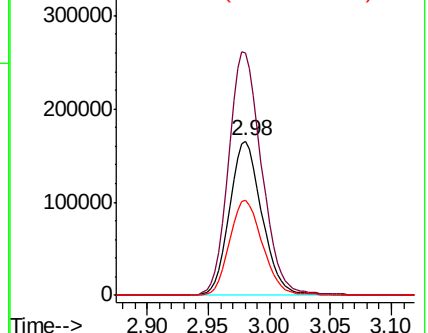
98 61.7 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031545.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031545.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031545.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 50.665 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

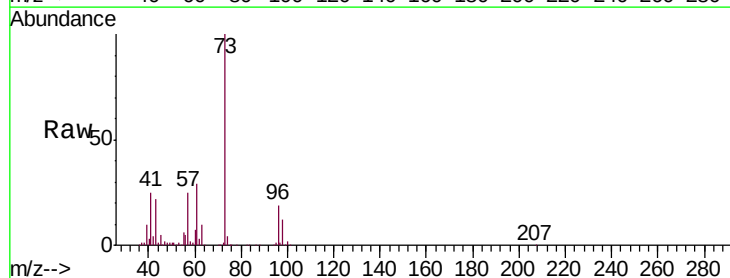
Tgt Ion: 73 Resp: 1075688

Ion Ratio Lower Upper

73 100

43 20.6 17.0 25.4

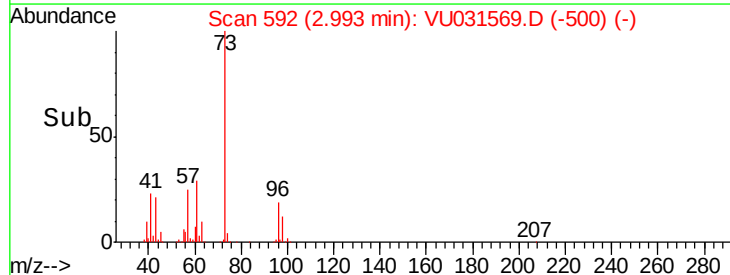
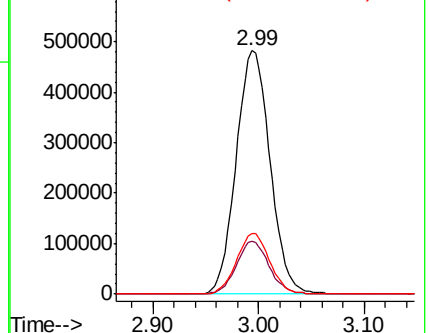
57 24.4 19.5 29.3

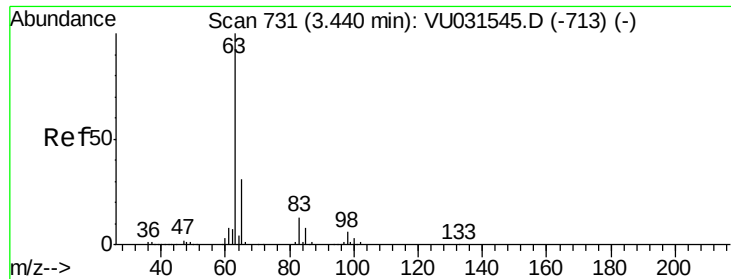


Abundance Ion 73.00 (72.70 to 73.70): VU031545.D (-574) (-)

Ion 43.00 (42.70 to 43.70): VU031545.D (-574) (-)

Ion 57.00 (56.70 to 57.70): VU031545.D (-574) (-)

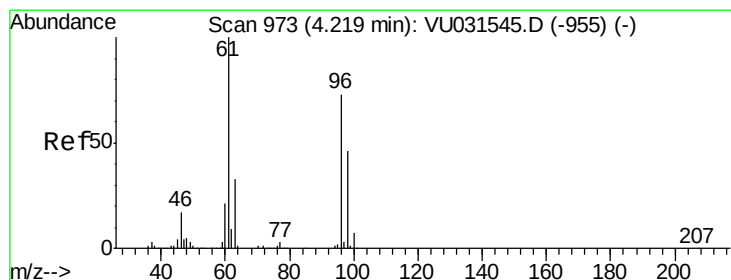
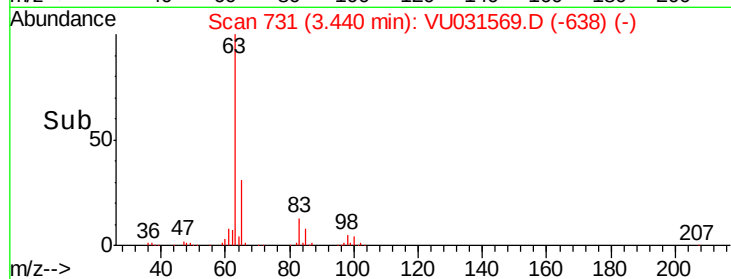
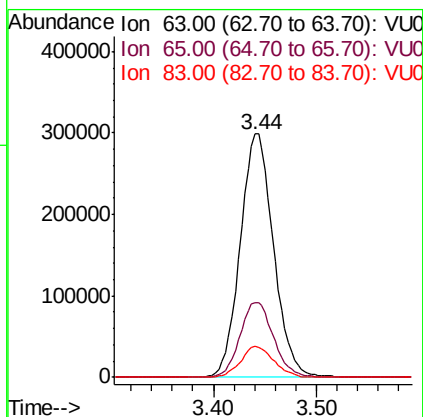
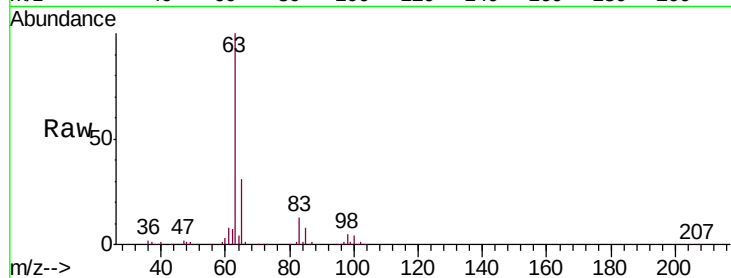




#19
 1,1-Dichloroethane
 Concen: 47.771 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

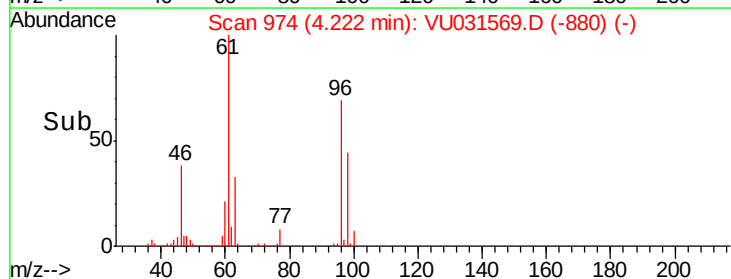
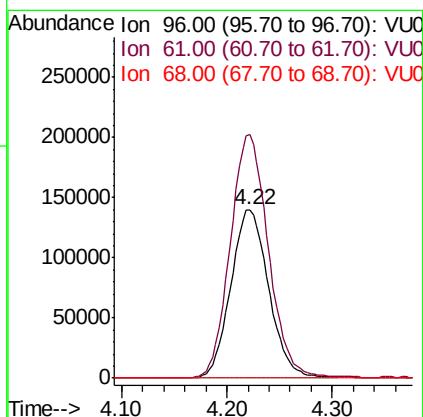
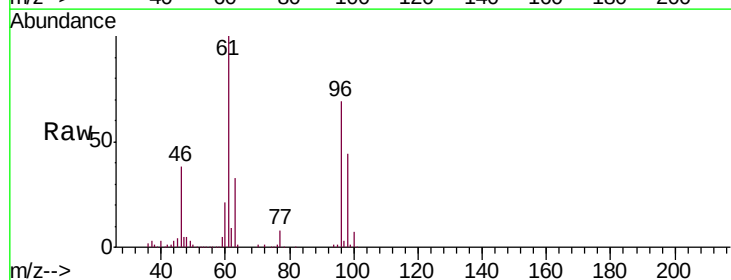
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

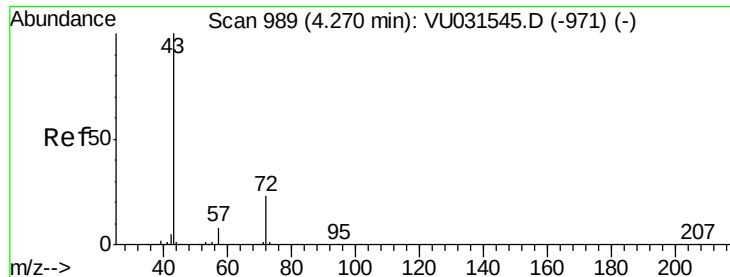
Tgt Ion: 63 Resp: 670448
 Ion Ratio Lower Upper
 63 100
 65 30.7 22.0 40.8
 83 12.8 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 48.937 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

Tgt Ion: 96 Resp: 349827
 Ion Ratio Lower Upper
 96 100
 61 144.3 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 97.298 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampled :

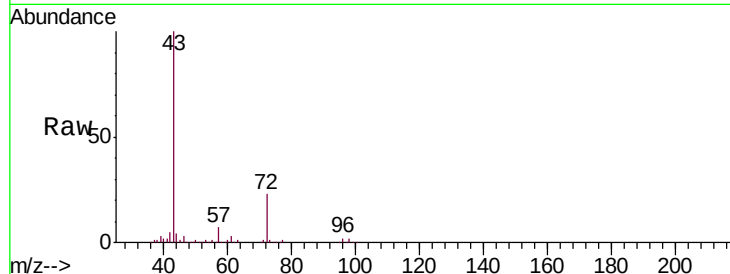
VSTD05051

Tgt Ion: 43 Resp: 754761

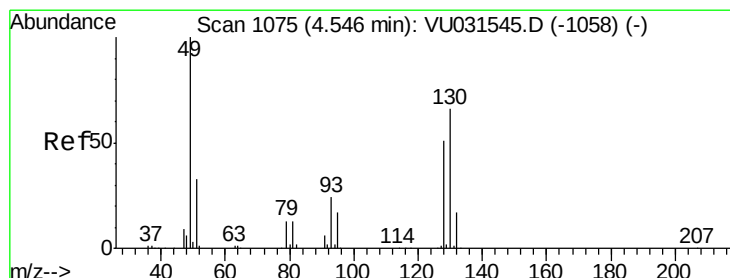
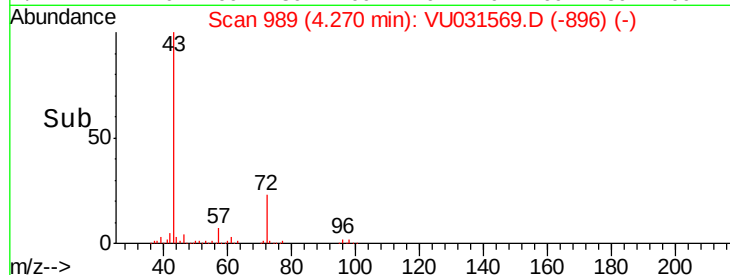
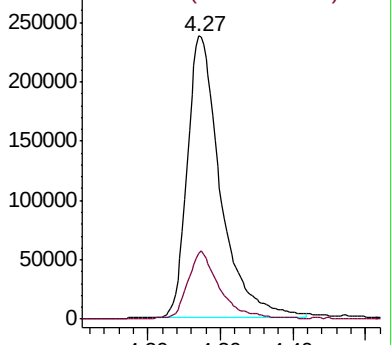
Ion Ratio Lower Upper

43 100

72 23.2 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031545.D (-971) (-)



#23

Bromochloromethane

Concen: 46.169 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Tgt Ion: 128 Resp: 160370

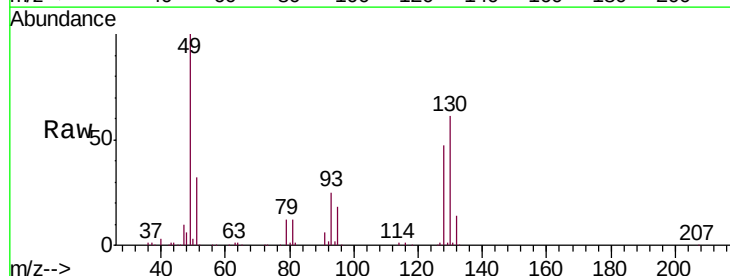
Ion Ratio Lower Upper

128 100

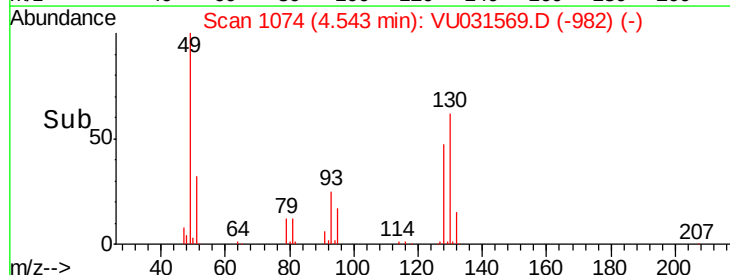
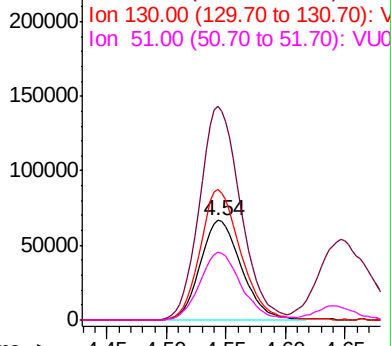
49 214.5 152.6 283.4

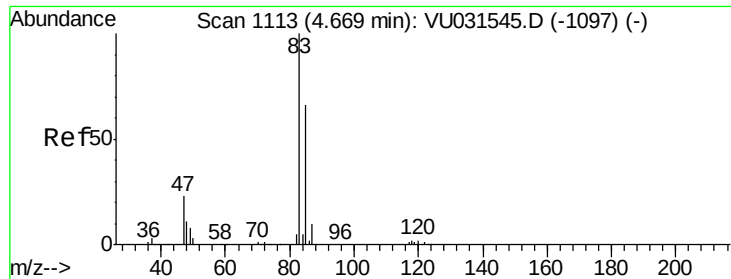
130 130.7 93.7 173.9

51 68.1 54.2 81.4



Abundance Ion 128.00 (127.70 to 128.70): VU031545.D (-1058) (-)

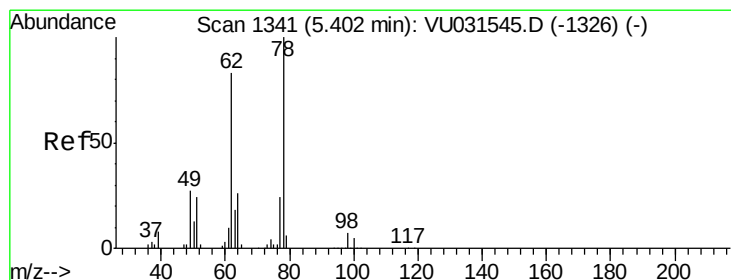
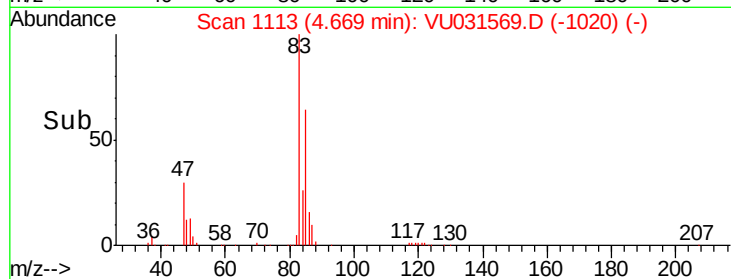
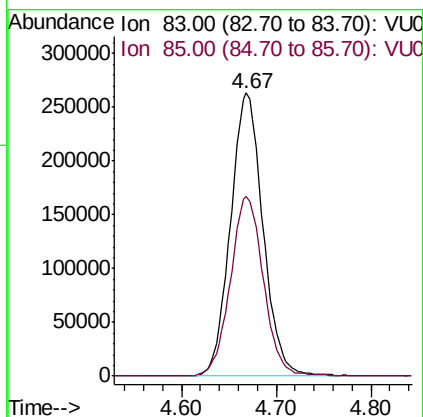
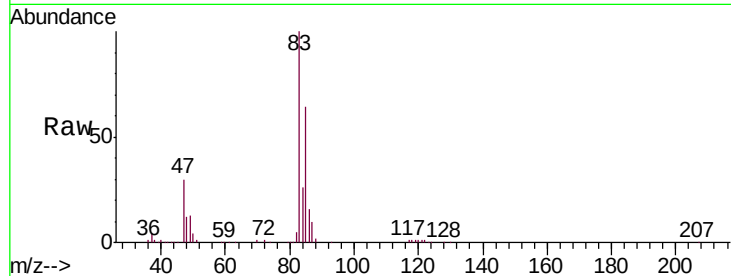




#25
Chloroform
Concen: 46.793 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

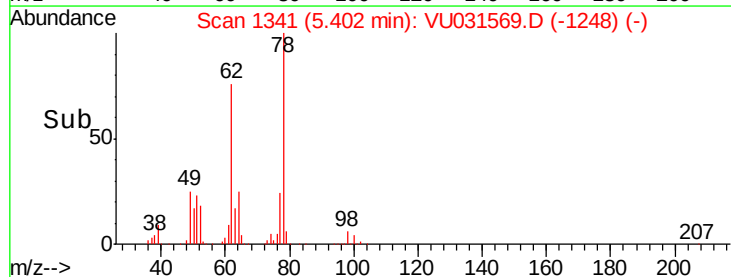
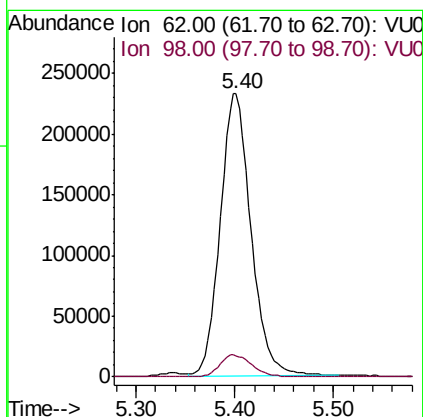
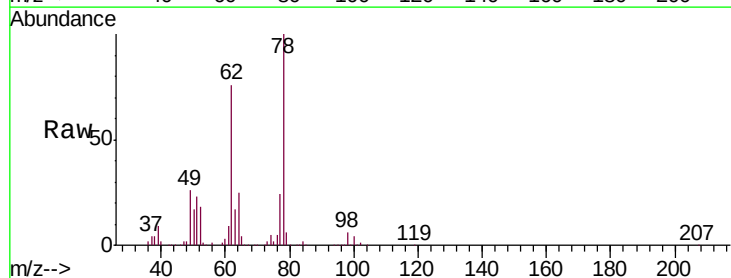
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

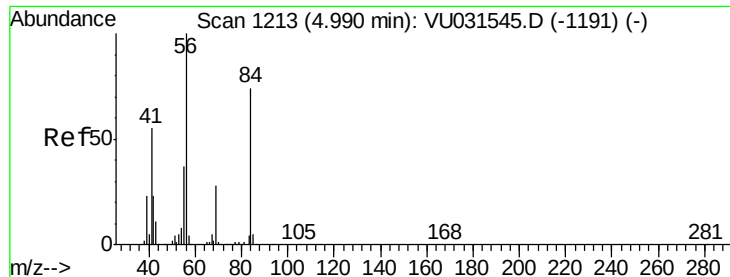
Tgt Ion: 83 Resp: 627989
Ion Ratio Lower Upper
83 100
85 63.7 44.9 83.3



#27
1,2-Dichloroethane
Concen: 46.536 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

Tgt Ion: 62 Resp: 507288
Ion Ratio Lower Upper
62 100
98 7.6 7.1 10.7

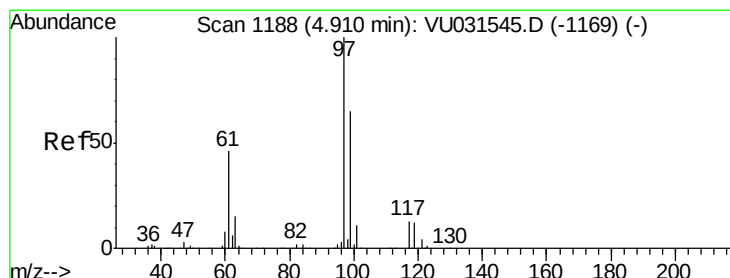
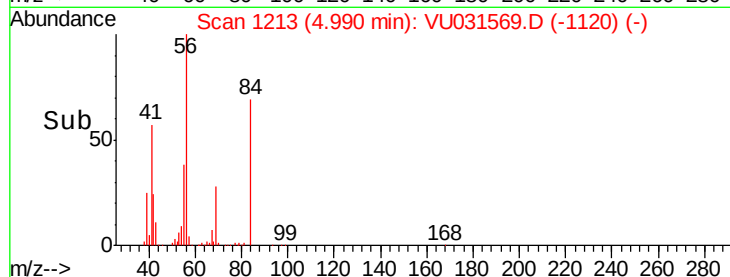
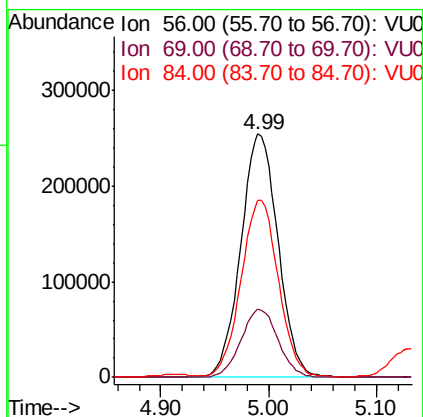
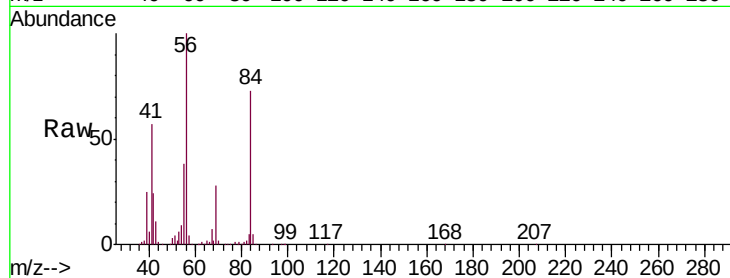




#29
Cyclohexane
Concen: 50.153 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

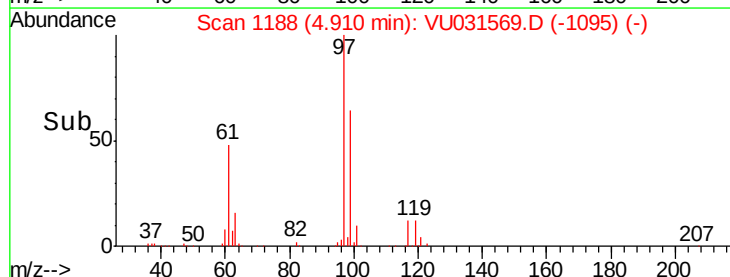
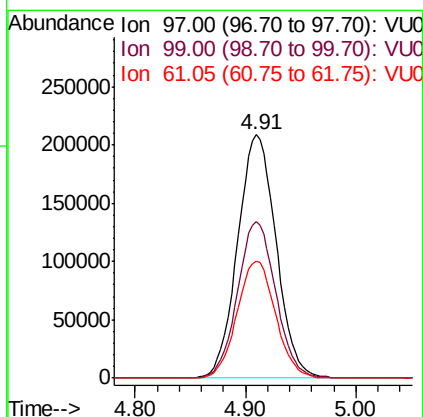
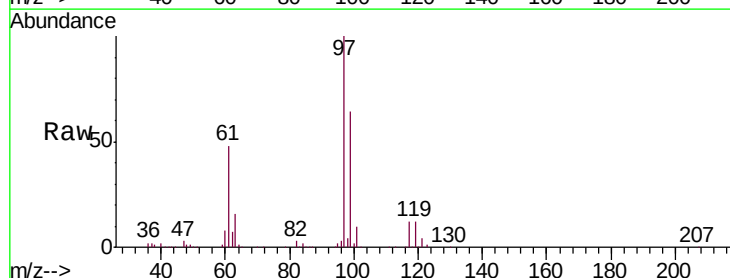
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

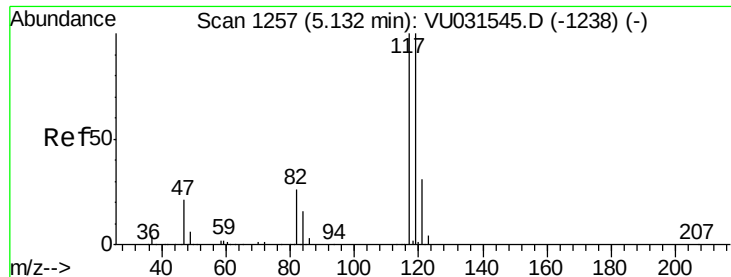
Tgt Ion: 56 Resp: 612007
Ion Ratio Lower Upper
56 100
69 28.0 22.3 33.5
84 72.4 57.5 86.3



#30
1,1,1-Trichloroethane
Concen: 46.741 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

Tgt Ion: 97 Resp: 504939
Ion Ratio Lower Upper
97 100
99 63.8 52.0 78.0
61 48.1 38.7 58.1





#31

Carbon tetrachloride

Concen: 46.147 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

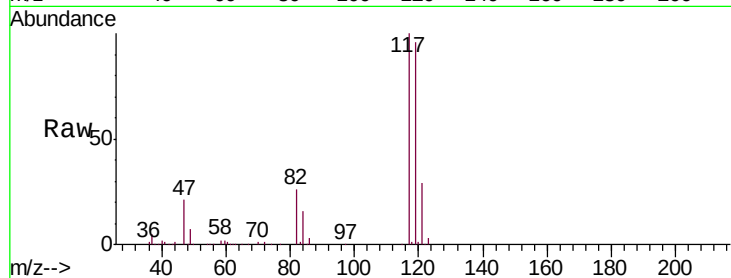
VSTD05051

Tgt Ion:117 Resp: 426095

Ion Ratio Lower Upper

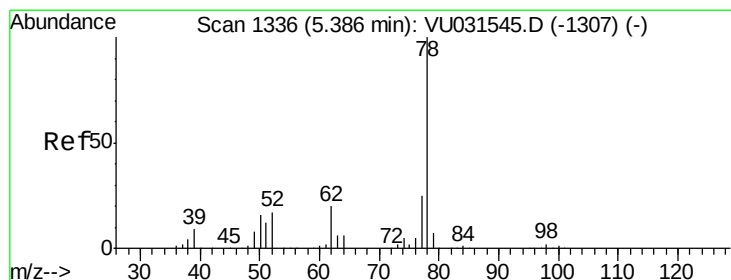
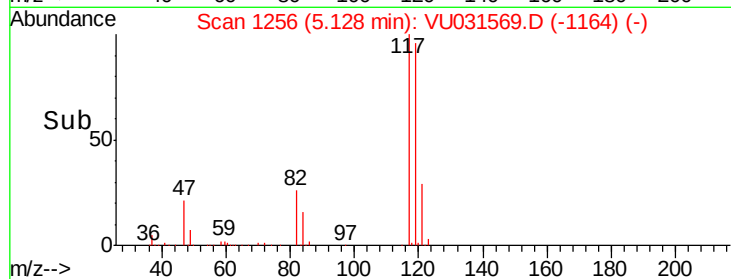
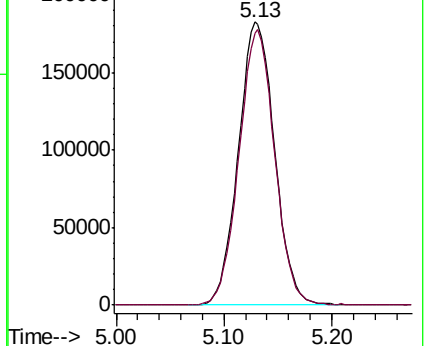
117 100

119 95.9 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.155 ug/L

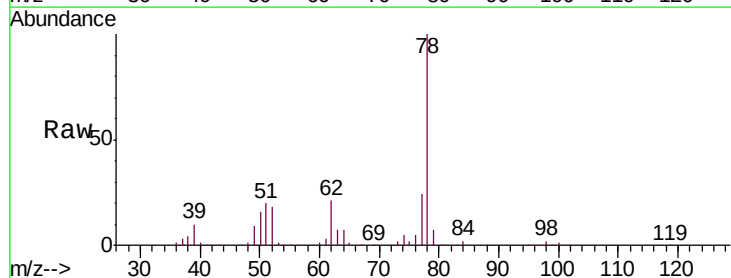
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

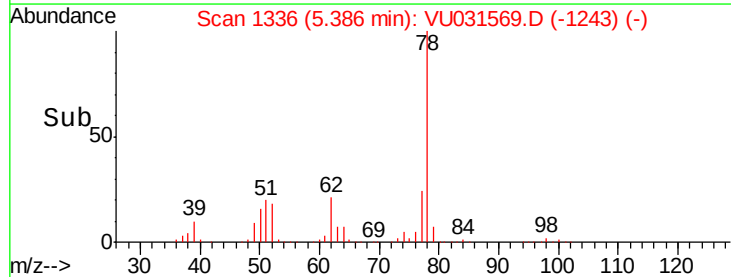
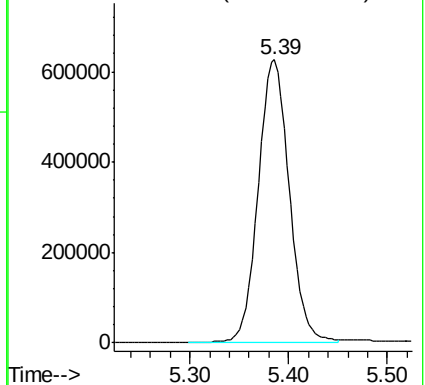
Lab File: VU031569.D

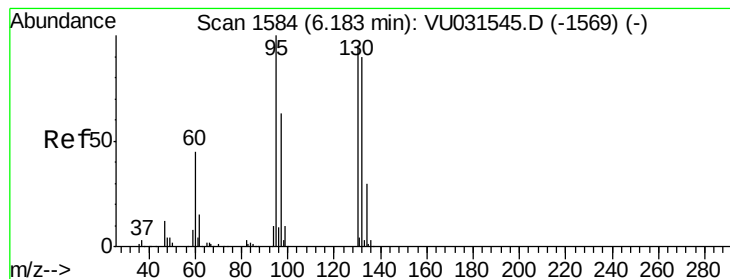
Acq: 27 Apr 2019 06:29

Tgt Ion: 78 Resp: 1365079



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.879 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

Tgt Ion: 95 Resp: 349615

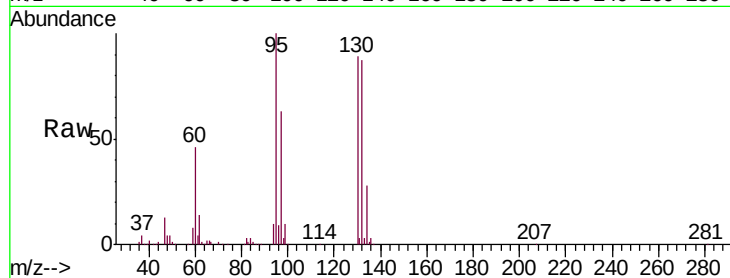
Ion Ratio Lower Upper

95 100

97 63.2 44.8 83.2

132 87.4 63.1 117.1

130 89.5 66.5 123.5

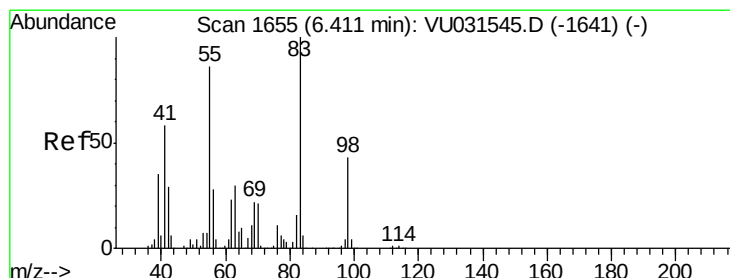
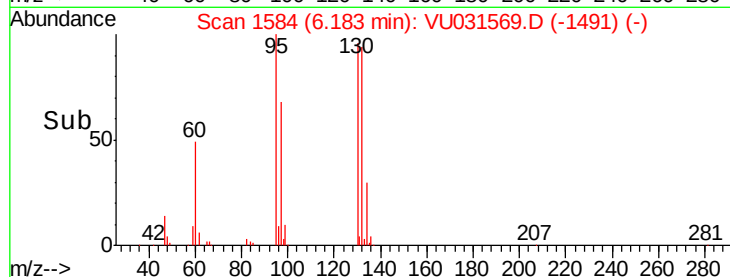
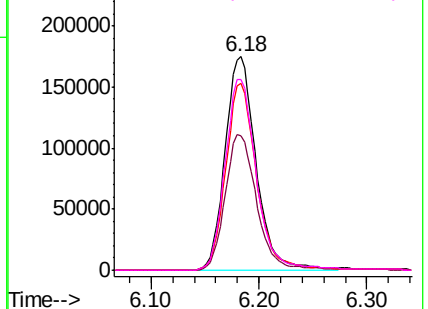


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 47.196 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

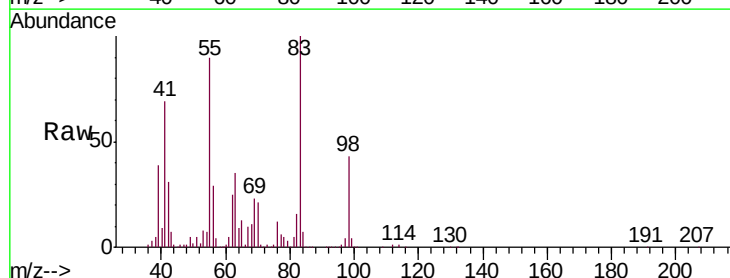
Tgt Ion: 83 Resp: 486028

Ion Ratio Lower Upper

83 100

55 91.7 73.0 109.4

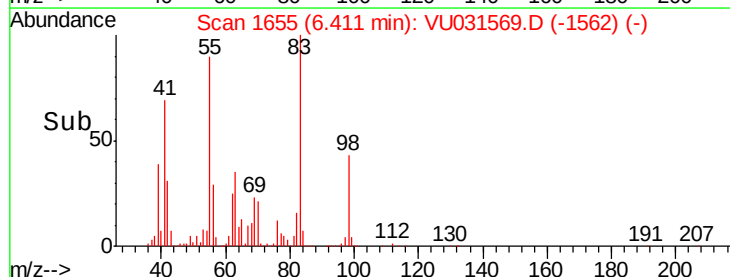
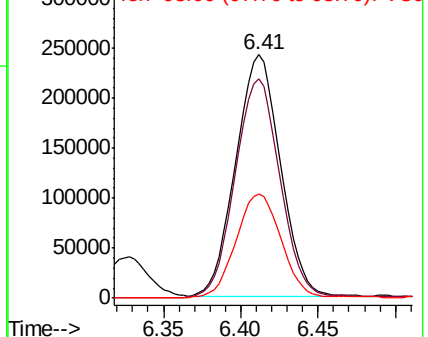
98 43.4 35.3 52.9

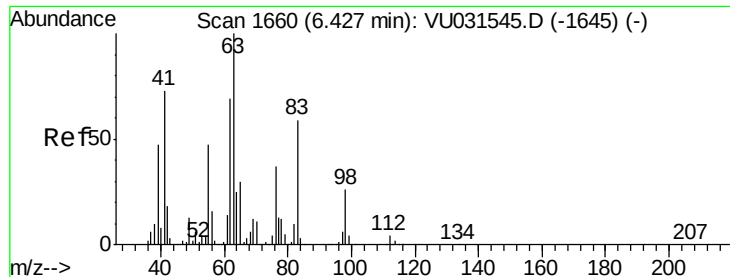


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

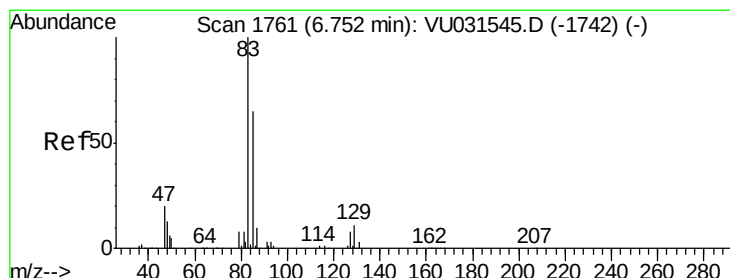
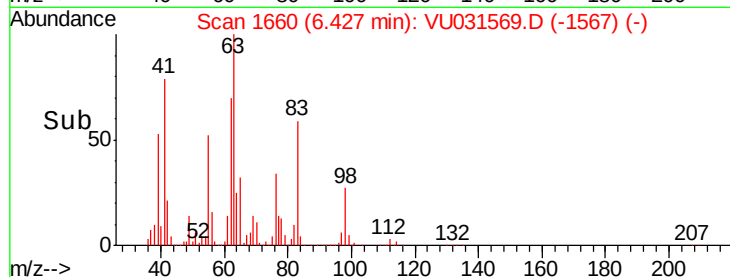
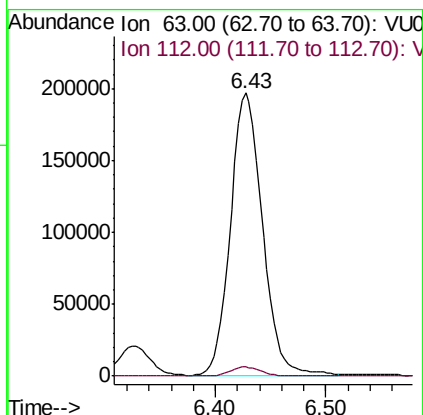
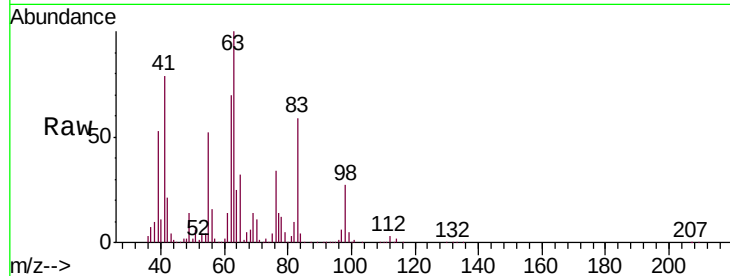




#37
 1,2-Dichloropropane
 Concen: 49.020 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

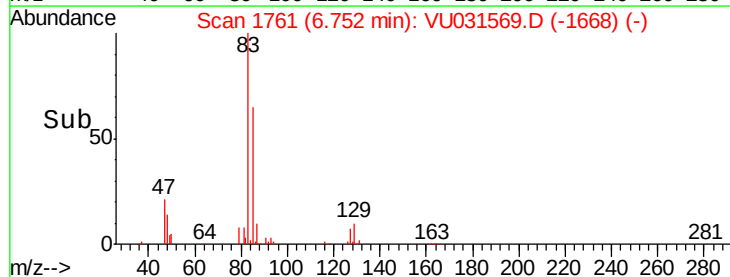
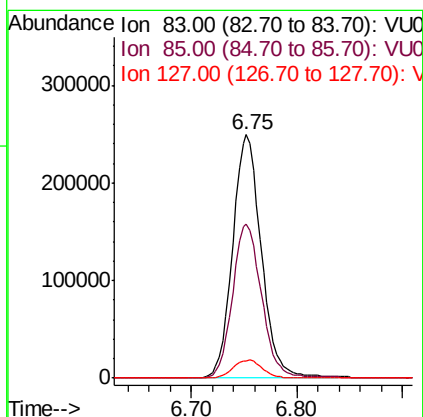
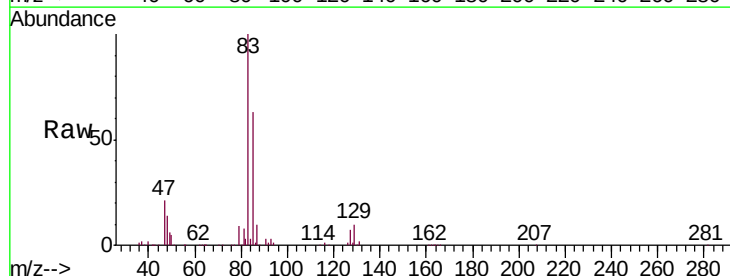
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

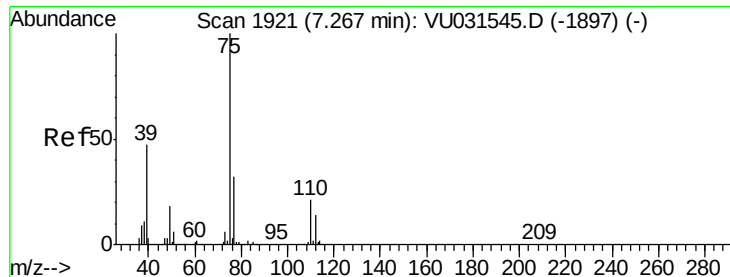
Tgt Ion: 63 Resp: 394496
 Ion Ratio Lower Upper
 63 100
 112 3.0 2.7 4.1



#38
 Bromodichloromethane
 Concen: 47.816 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

Tgt Ion: 83 Resp: 466572
 Ion Ratio Lower Upper
 83 100
 85 63.3 43.7 81.1
 127 7.2 6.7 10.1

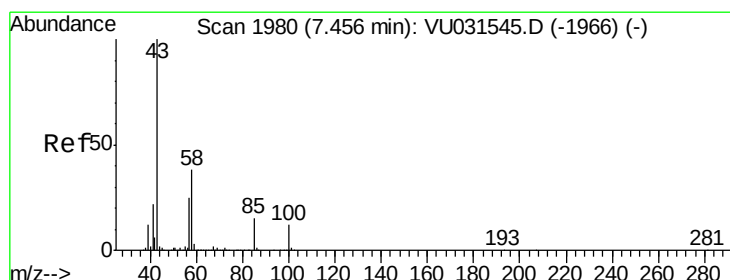
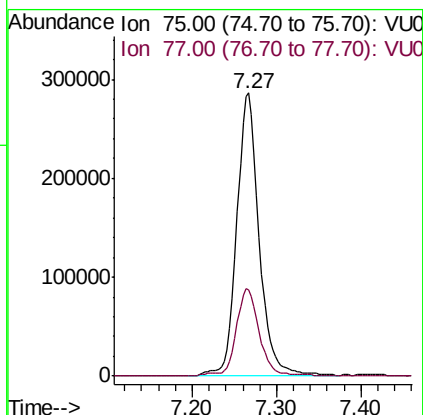
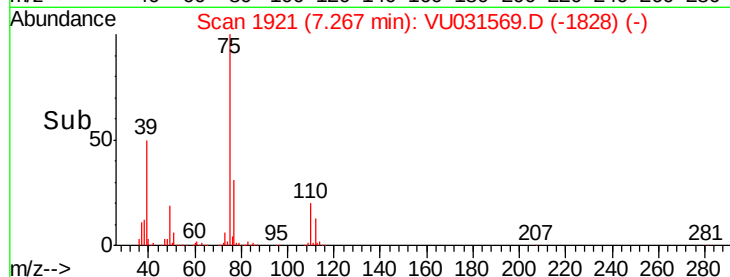
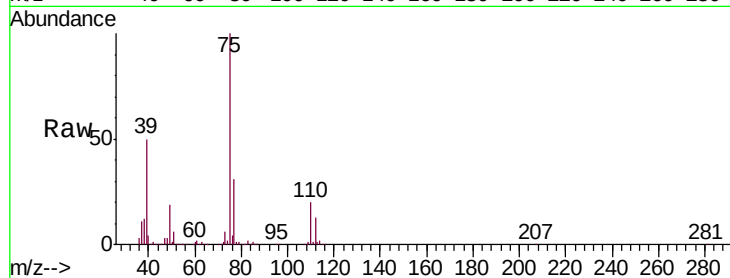




#39
 cis-1,3-Dichloropropene
 Concen: 50.105 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

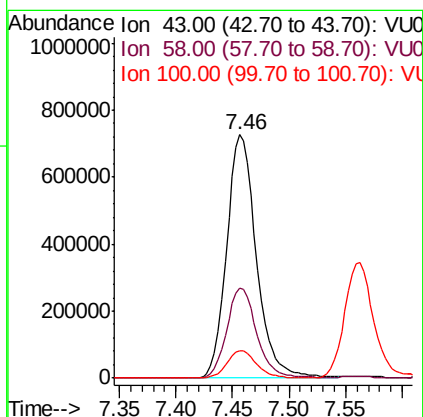
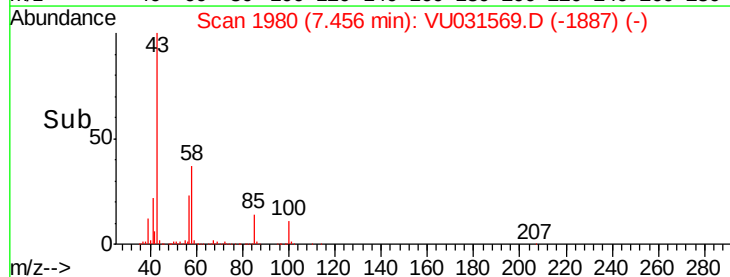
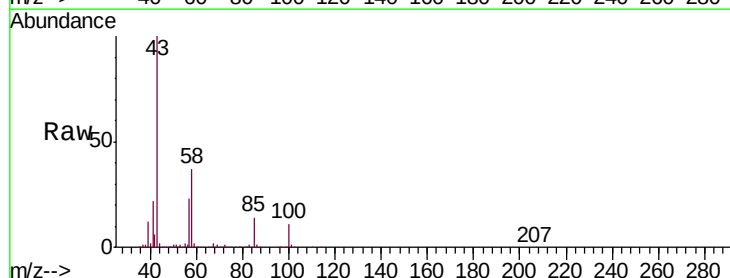
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

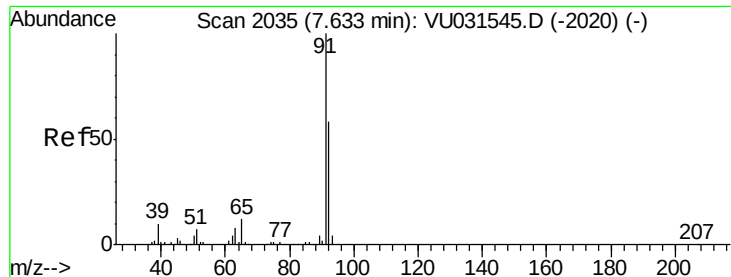
Tgt Ion: 75 Resp: 532806
 Ion Ratio Lower Upper
 75 100
 77 30.7 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 107.119 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

Tgt Ion: 43 Resp: 1326305
 Ion Ratio Lower Upper
 43 100
 58 37.5 30.1 45.1
 100 11.4 9.6 14.4





#42

Toluene

Concen: 49.600 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

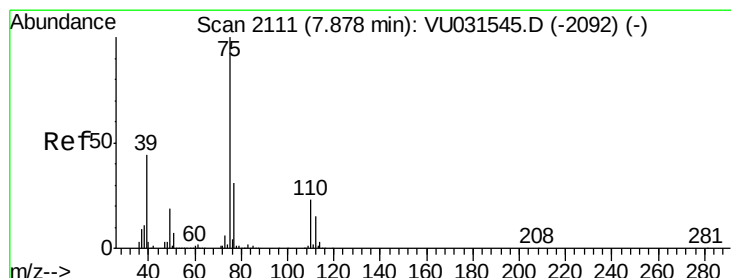
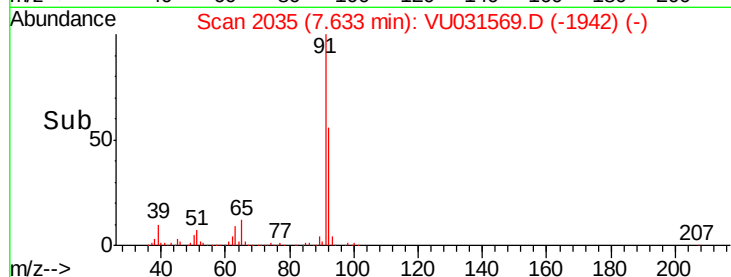
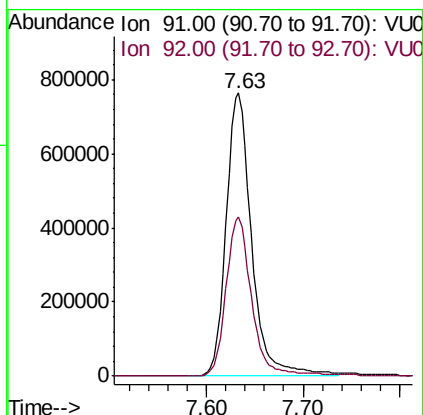
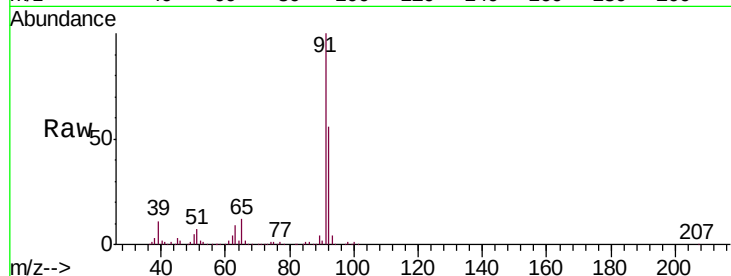
VSTD05051

Tgt Ion: 91 Resp: 1400600

Ion Ratio Lower Upper

91 100

92 56.1 39.0 72.4



#44

trans-1,3-Dichloropropene

Concen: 46.998 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031569.D

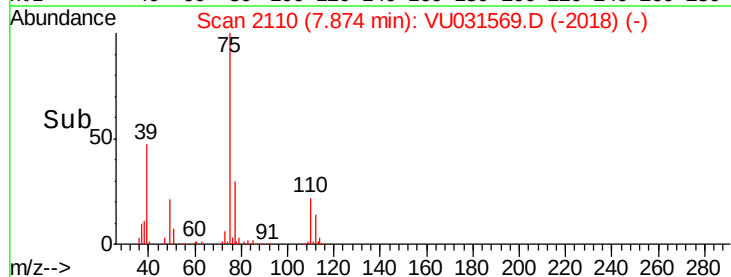
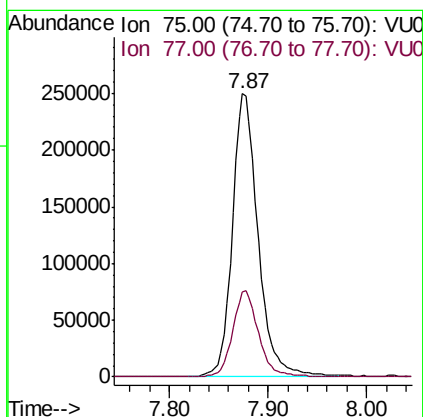
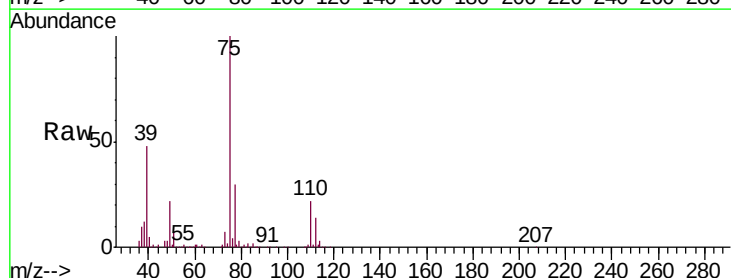
Acq: 27 Apr 2019 06:29

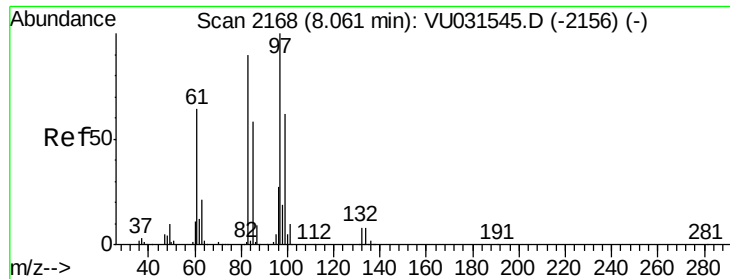
Tgt Ion: 75 Resp: 453289

Ion Ratio Lower Upper

75 100

77 29.9 22.1 41.1

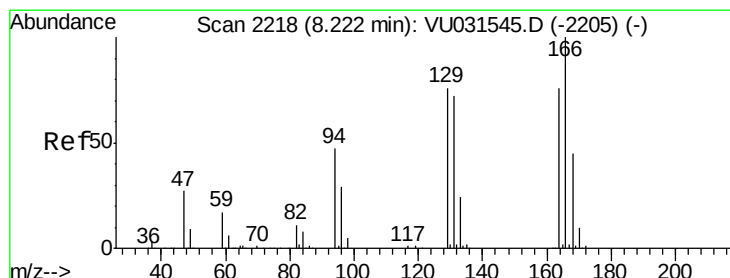
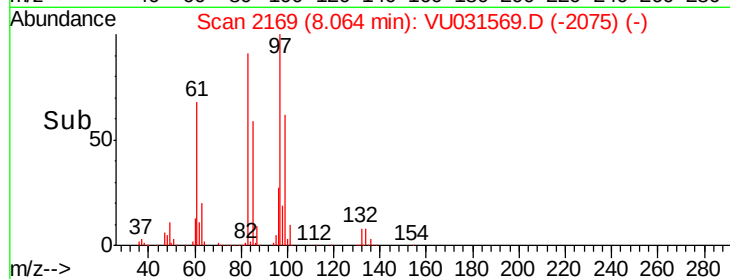
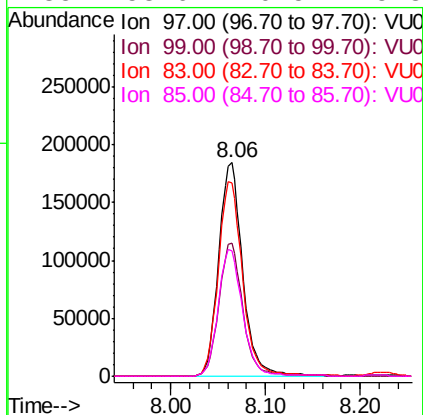
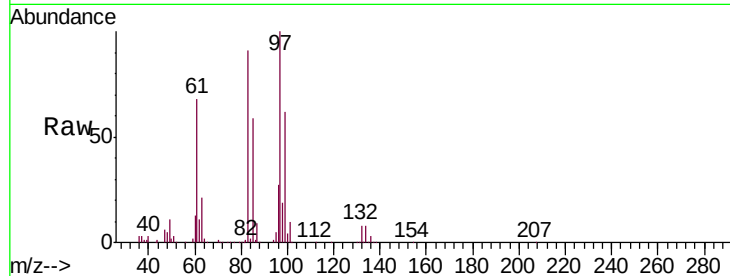




#45
 1,1,2-Trichloroethane
 Concen: 49.120 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

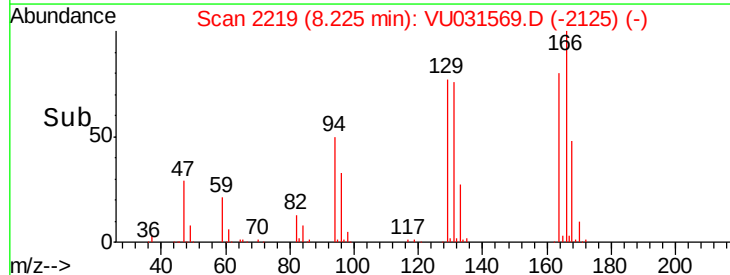
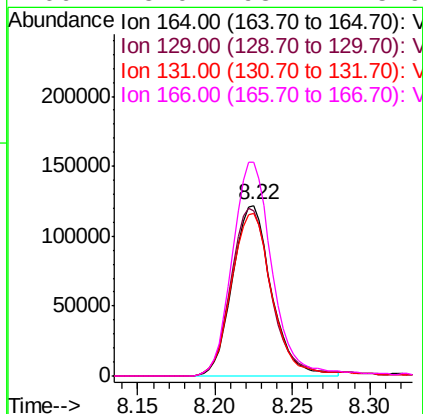
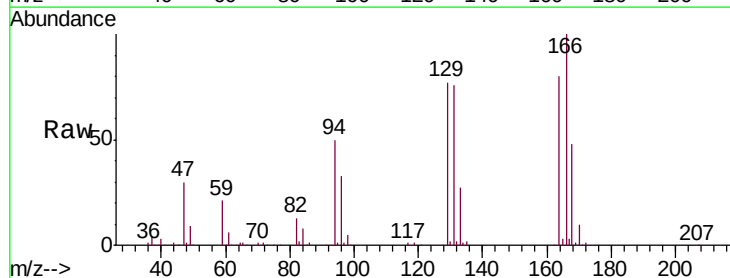
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

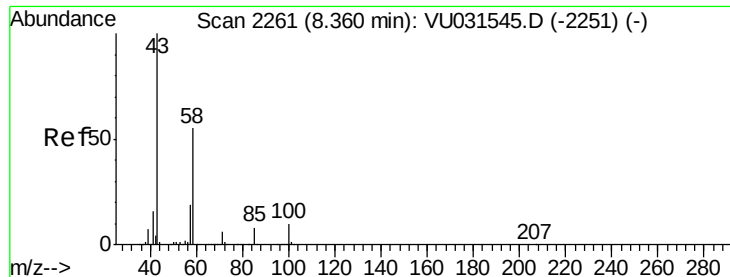
Tgt Ion:	97	Resp:	325880
Ion	Ratio	Lower	Upper
97	100		
99	62.5	43.0	80.0
83	90.5	63.6	118.2
85	58.6	40.5	75.3



#46
 Tetrachloroethene
 Concen: 45.811 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

Tgt Ion:	164	Resp:	214603
Ion	Ratio	Lower	Upper
164	100		
129	96.5	71.5	132.9
131	95.2	69.0	128.2
166	125.0	93.7	173.9

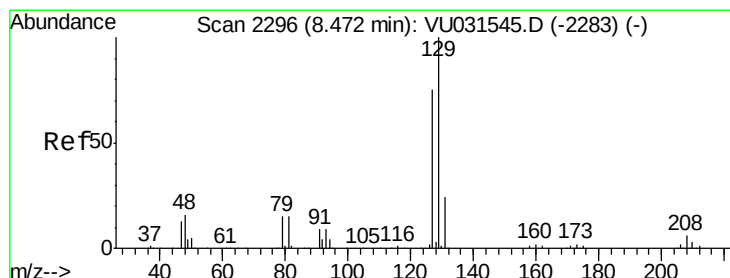
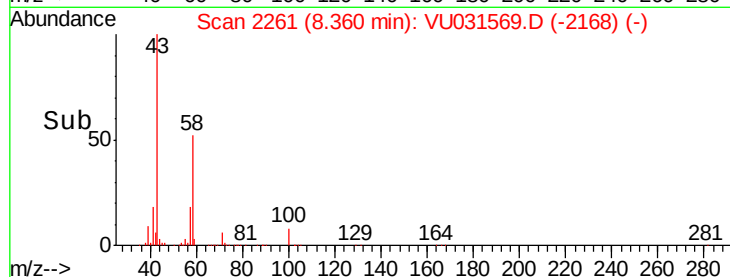
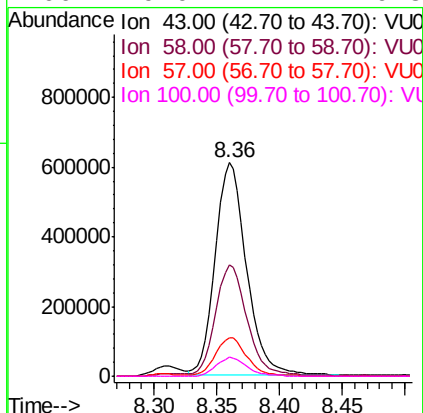
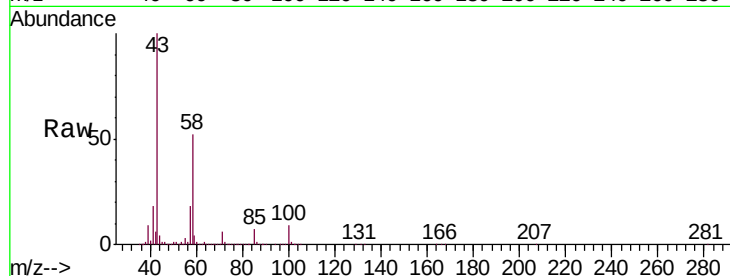




#48
2-Hexanone
Concen: 105.341 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

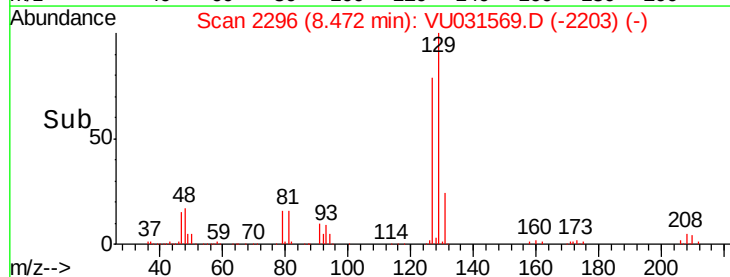
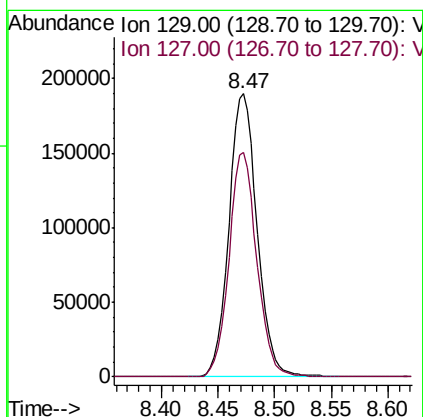
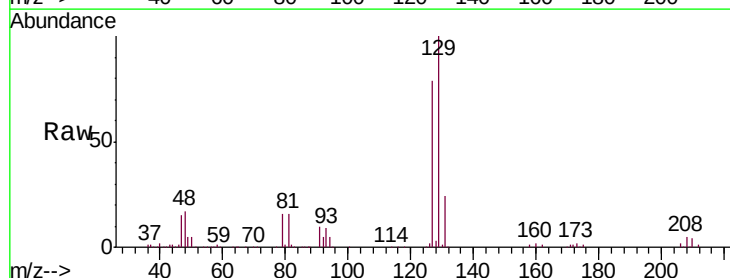
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

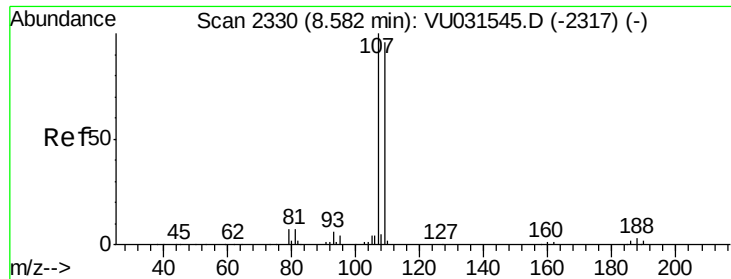
Tgt Ion: 43 Resp: 1054894
Ion Ratio Lower Upper
43 100
58 52.9 42.1 63.1
57 18.1 14.6 22.0
100 9.0 7.2 10.8



#49
Dibromochloromethane
Concen: 47.666 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

Tgt Ion: 129 Resp: 329036
Ion Ratio Lower Upper
129 100
127 79.3 54.0 100.2

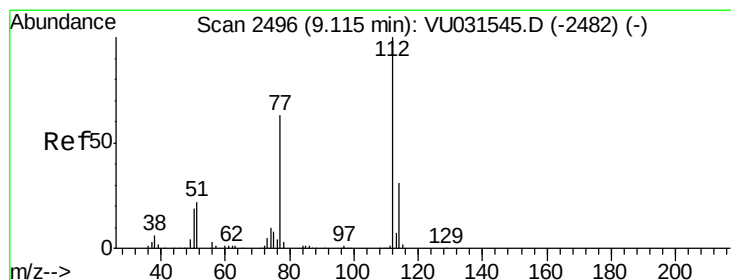
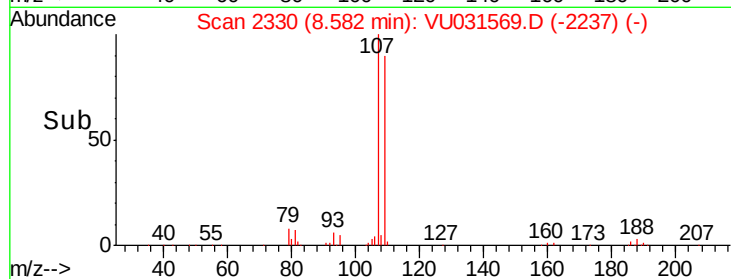
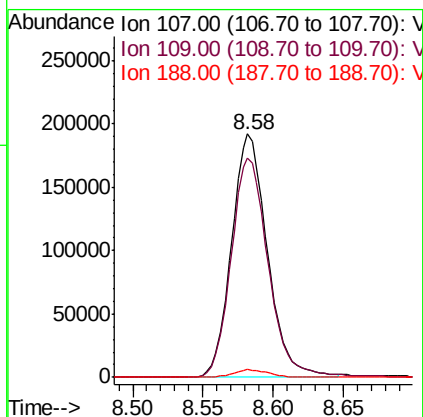
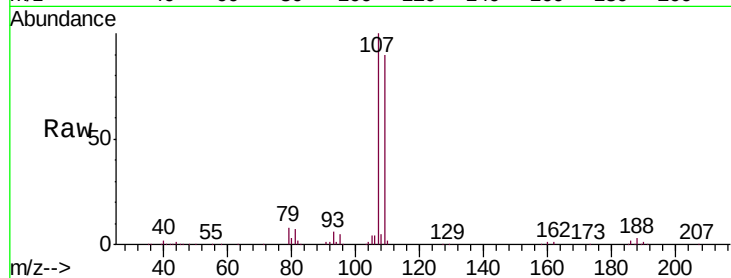




#50
1,2-Dibromoethane
Concen: 48.610 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

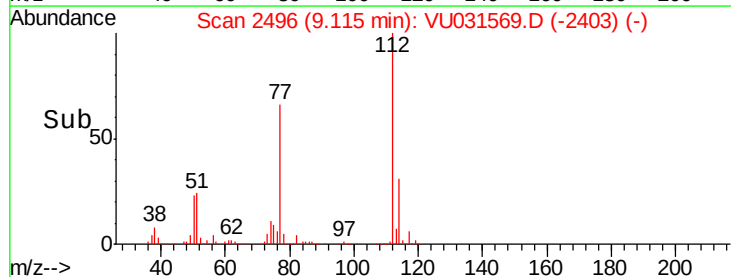
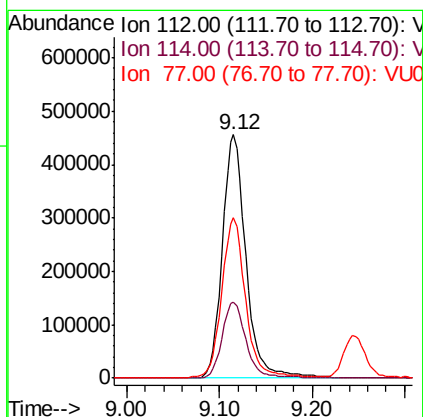
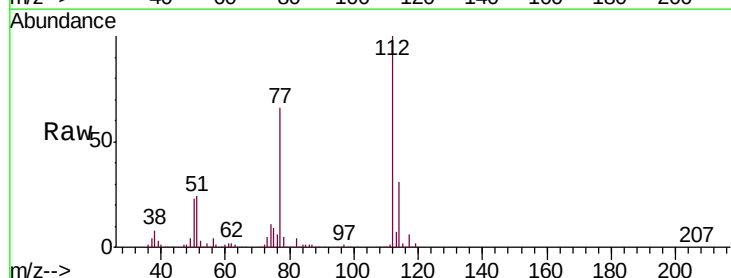
Instrument :
MSVOA_U
ClientSampleId :
VSTD05051

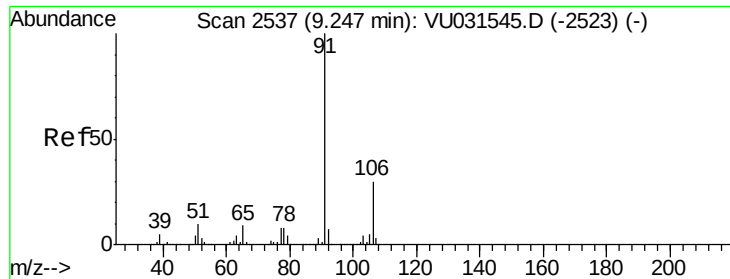
Tgt Ion:107 Resp: 340601
Ion Ratio Lower Upper
107 100
109 90.3 64.9 120.5
188 3.1 2.4 3.6



#51
Chlorobenzene
Concen: 48.314 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU031569.D
Acq: 27 Apr 2019 06:29

Tgt Ion:112 Resp: 806205
Ion Ratio Lower Upper
112 100
114 31.4 23.3 43.3
77 65.7 53.0 79.4





#52

Ethylbenzene

Concen: 50.163 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

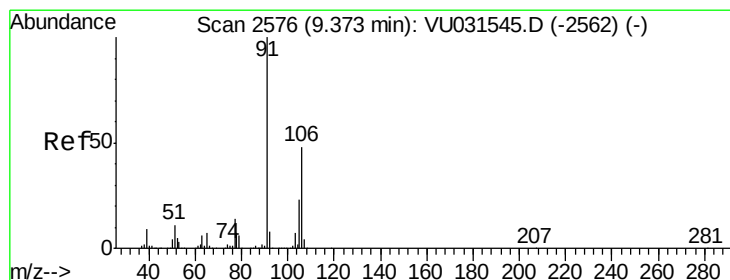
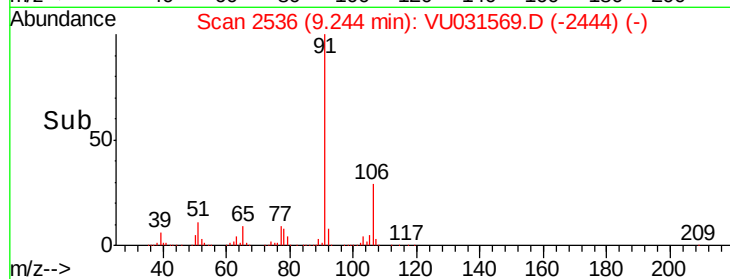
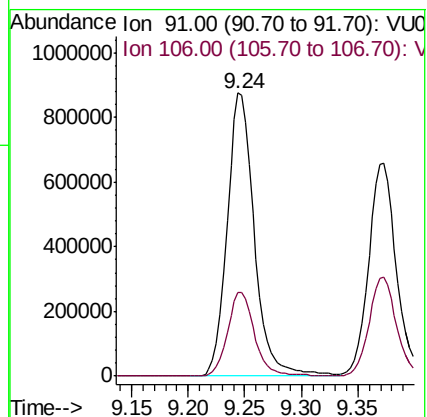
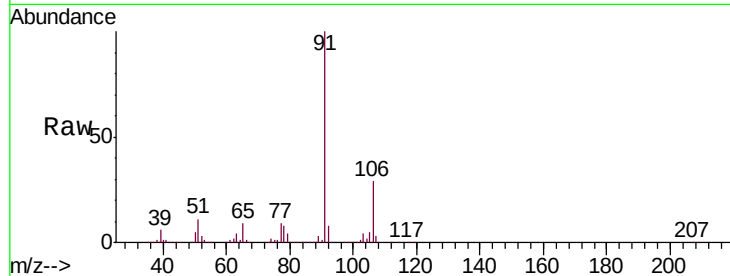
VSTD05051

Tgt Ion: 91 Resp: 1469339

Ion Ratio Lower Upper

91 100

106 29.4 20.4 37.8



#53

m,p-Xylene

Concen: 51.591 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031569.D

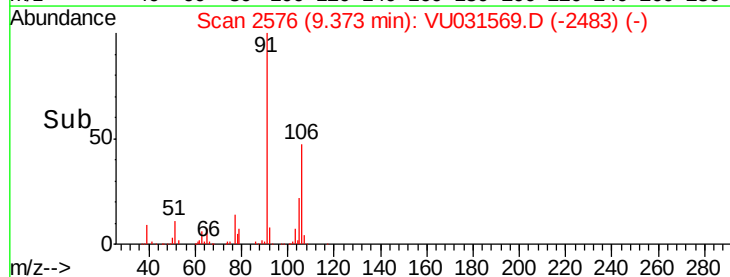
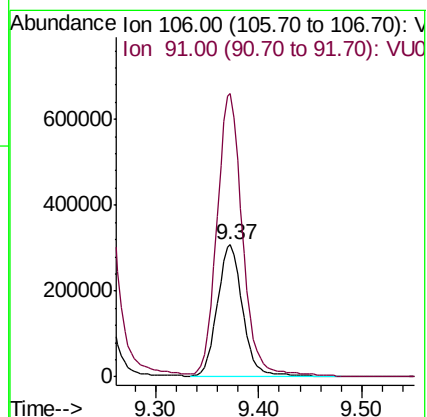
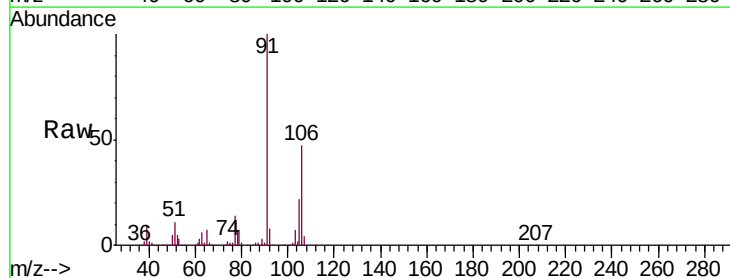
Acq: 27 Apr 2019 06:29

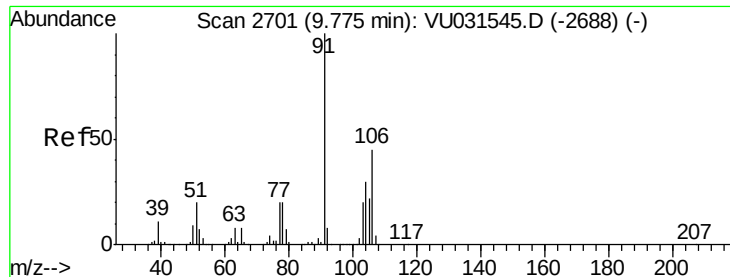
Tgt Ion: 106 Resp: 526510

Ion Ratio Lower Upper

106 100

91 214.7 152.2 282.6





#54

o-xylene

Concen: 51.541 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

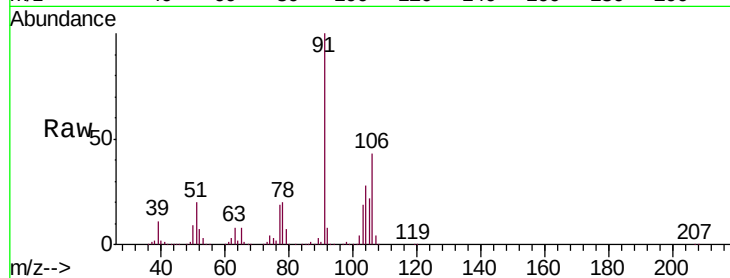
VSTD05051

Tgt Ion:106 Resp: 521476

Ion Ratio Lower Upper

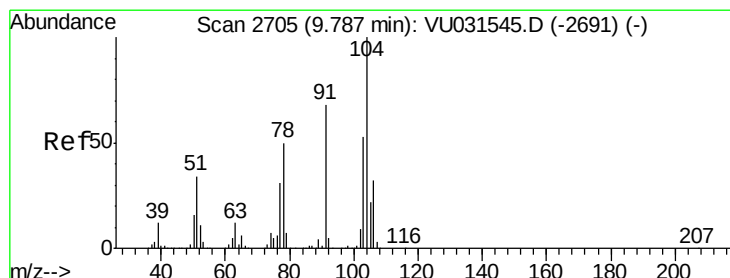
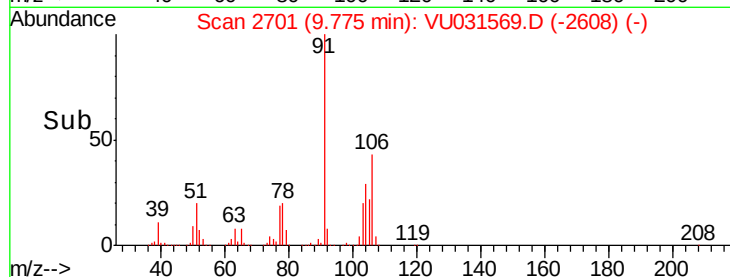
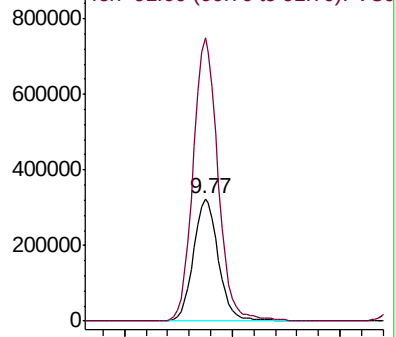
106 100

91 231.3 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.052 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU031569.D

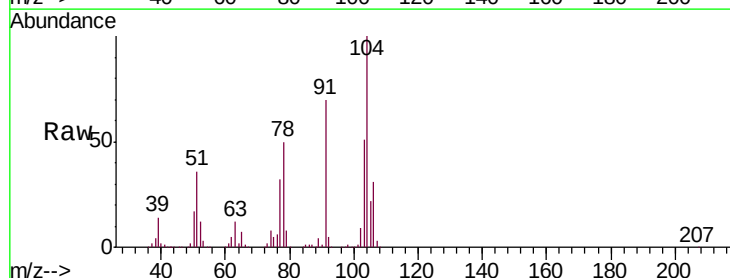
Acq: 27 Apr 2019 06:29

Tgt Ion:104 Resp: 899773

Ion Ratio Lower Upper

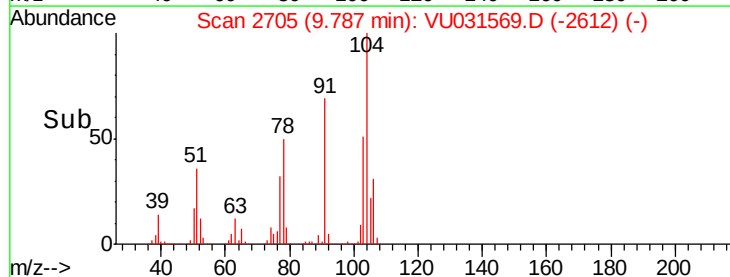
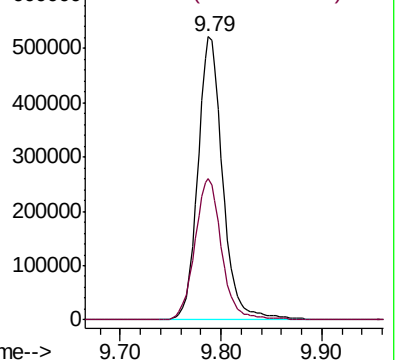
104 100

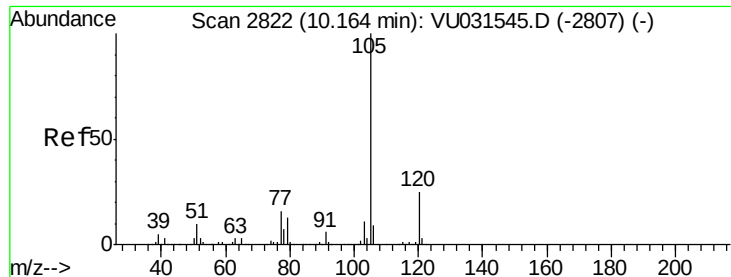
78 49.9 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.498 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

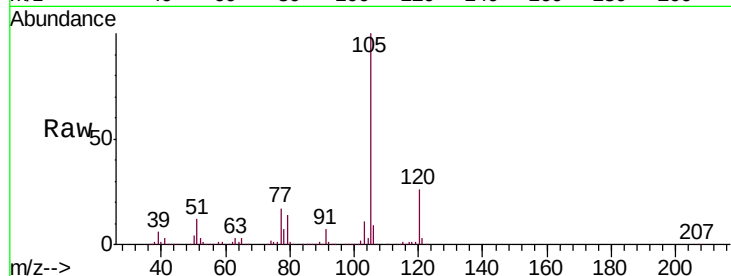
Tgt Ion:105 Resp: 1343510

Ion Ratio Lower Upper

105 100

120 25.3 20.1 30.1

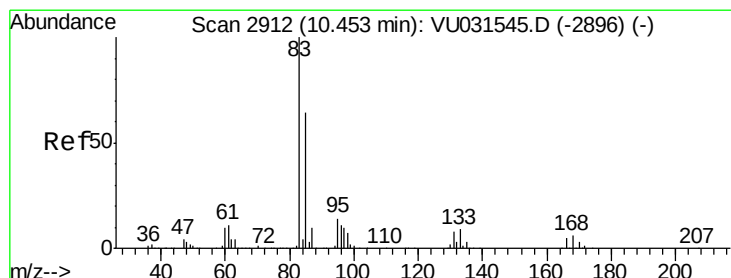
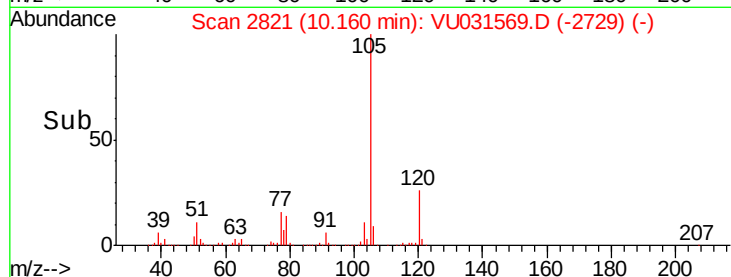
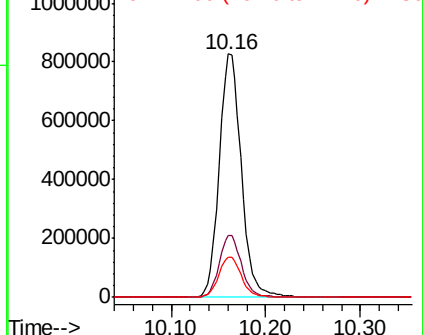
77 17.1 13.8 20.6



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: 48.411 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

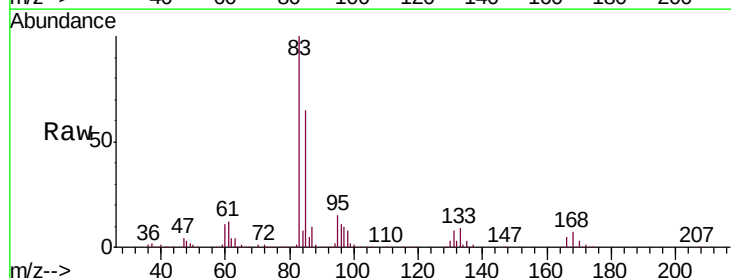
Tgt Ion: 83 Resp: 569929

Ion Ratio Lower Upper

83 100

85 64.9 46.0 85.4

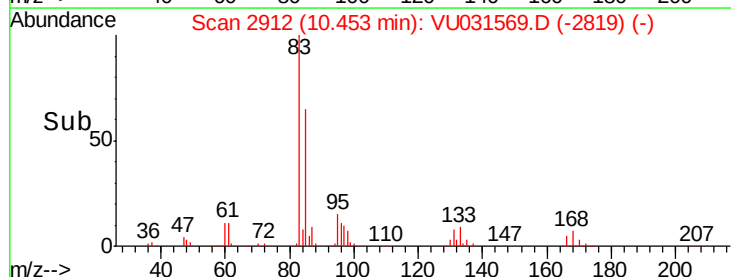
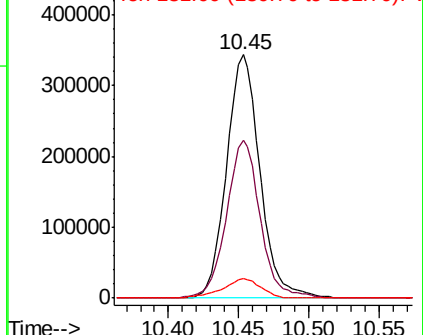
131 8.1 7.3 10.9

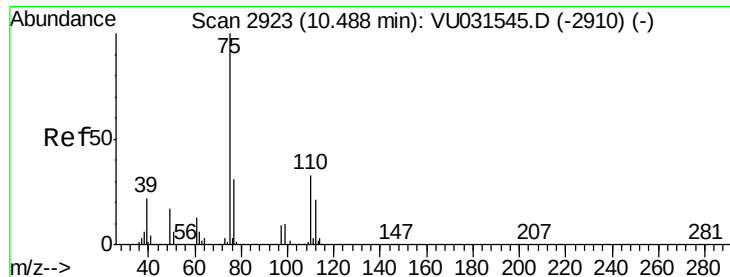


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.850 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

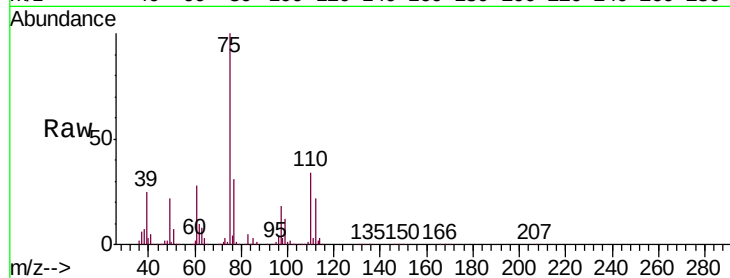
VSTD05051

Tgt Ion: 75 Resp: 466098

Ion Ratio Lower Upper

75 100

77 31.9 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VU031545.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031545.D (-2910) (-)

10.49

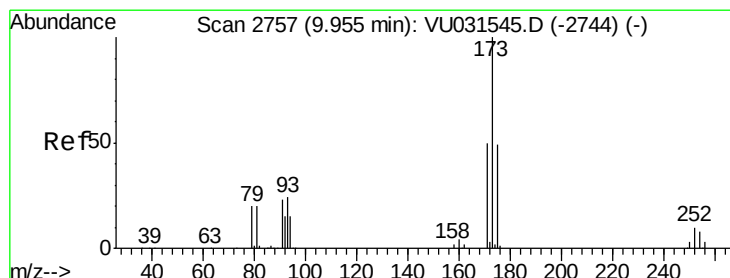
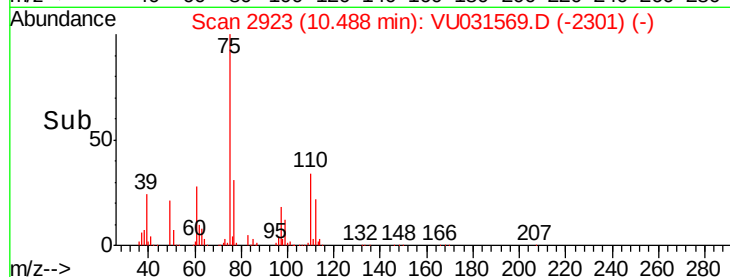
300000

200000

100000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 46.265 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

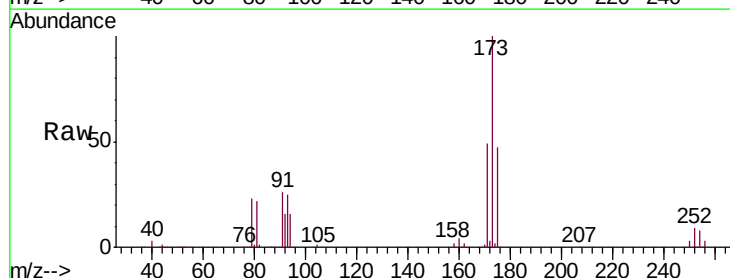
Tgt Ion: 173 Resp: 229229

Ion Ratio Lower Upper

173 100

175 47.5 38.3 57.5

254 8.4 6.6 9.8



Abundance Ion 173.00 (172.70 to 173.70): VU031545.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU031545.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU031545.D (-2744) (-)

9.95

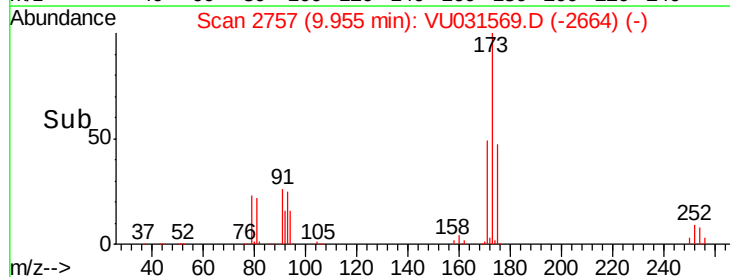
150000

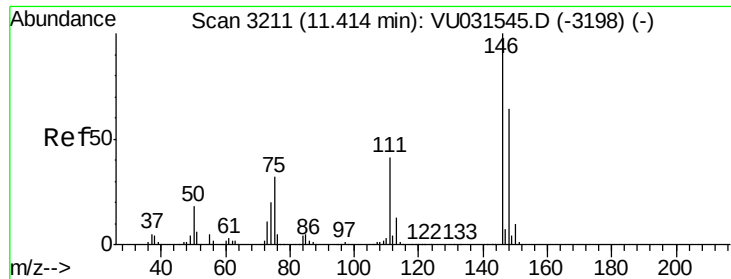
100000

50000

0

Time--> 9.90 9.95 10.00





#62

1,3-Dichlorobenzene

Concen: 48.832 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

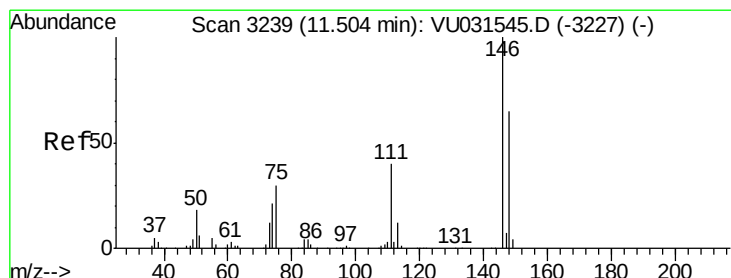
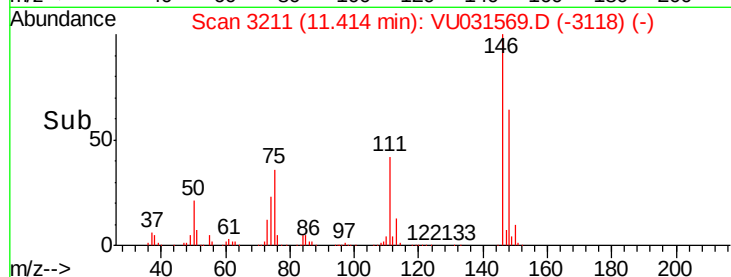
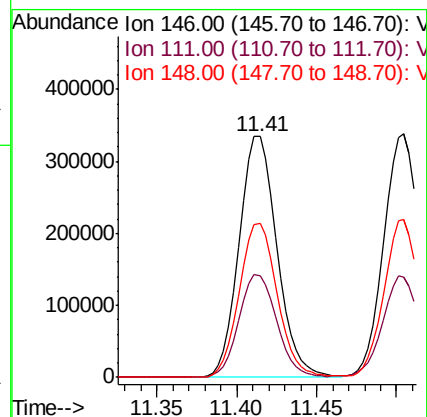
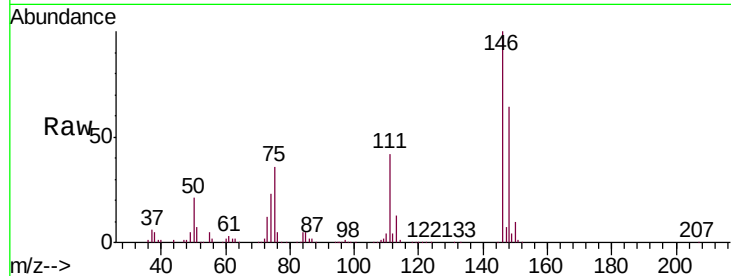
Tgt Ion:146 Resp: 540289

Ion Ratio Lower Upper

146 100

111 42.4 29.8 55.4

148 63.9 45.1 83.9



#63

1,4-Dichlorobenzene

Concen: 47.815 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

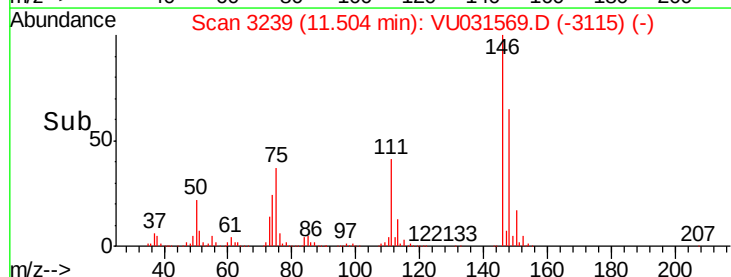
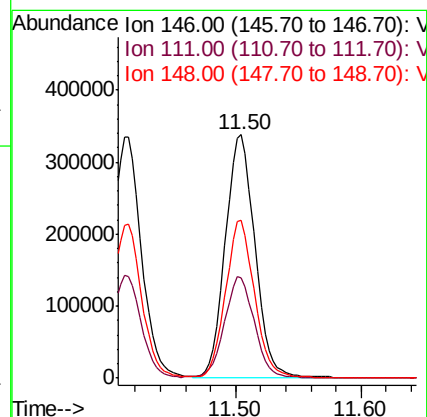
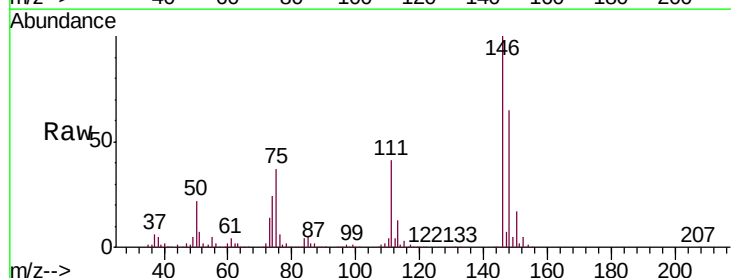
Tgt Ion:146 Resp: 547888

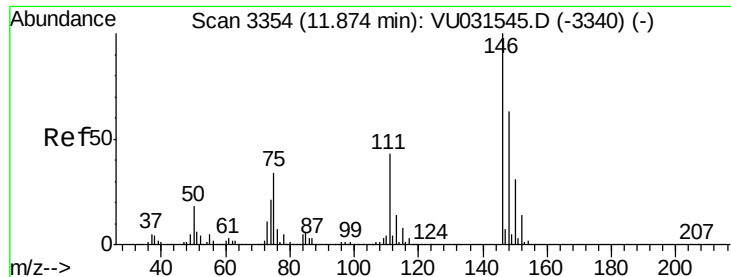
Ion Ratio Lower Upper

146 100

111 41.3 28.2 52.4

148 64.6 45.4 84.4

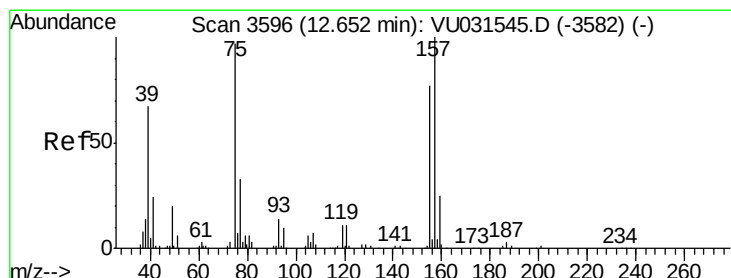
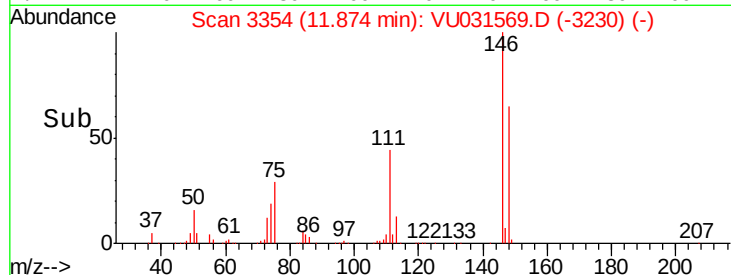
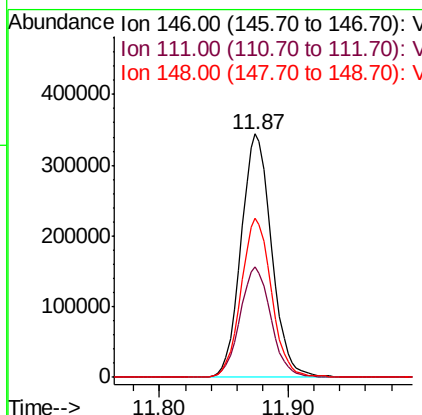
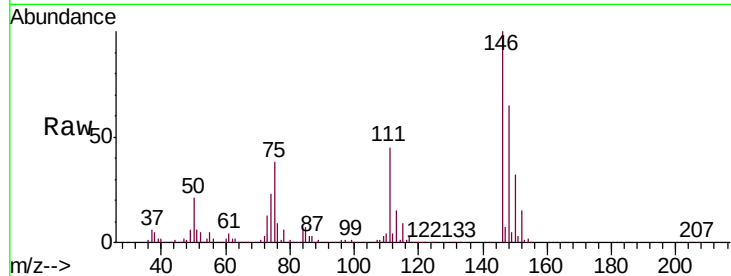




#65
 1,2-Dichlorobenzene
 Concen: 48.103 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

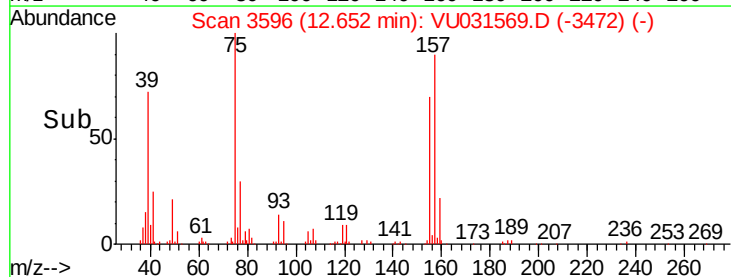
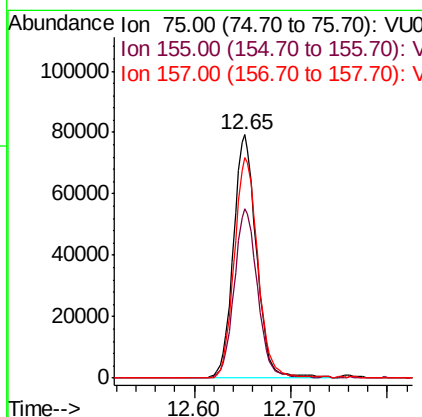
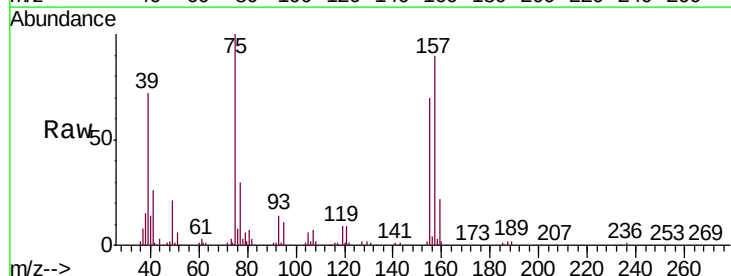
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

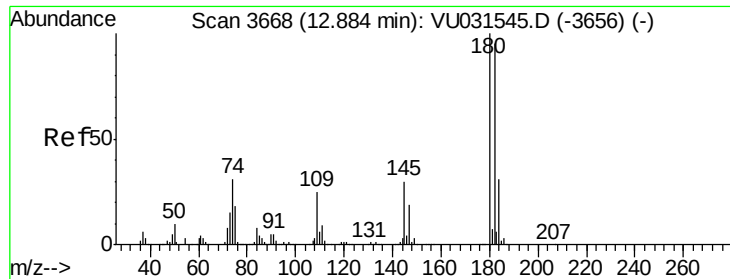
Tgt Ion: 146 Resp: 565647
 Ion Ratio Lower Upper
 146 100
 111 45.1 35.9 53.9
 148 65.2 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.271 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

Tgt Ion: 75 Resp: 131738
 Ion Ratio Lower Upper
 75 100
 155 69.7 54.0 81.0
 157 90.4 69.1 103.7

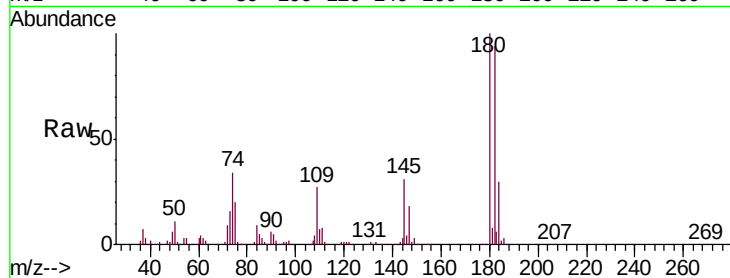




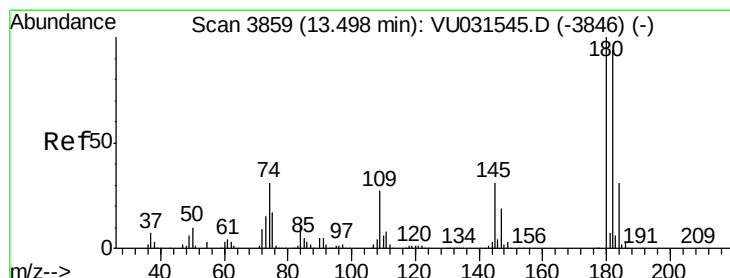
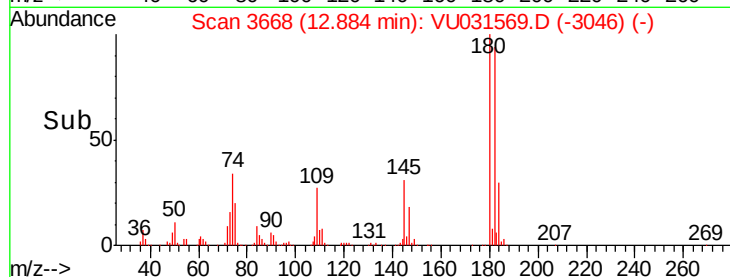
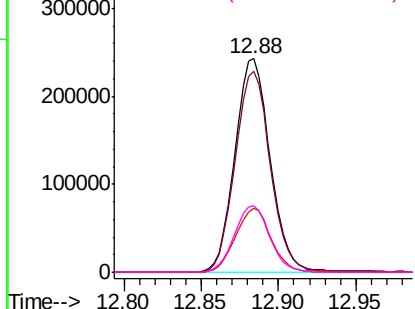
#67
 1,3,5-Trichlorobenzene
 Concen: 46.342 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05051

Tgt Ion:	180	Resp:	384029
Ion	Ratio	Lower	Upper
180	100		
182	93.9	77.3	115.9
184	30.2	24.4	36.6
145	31.2	23.8	35.8

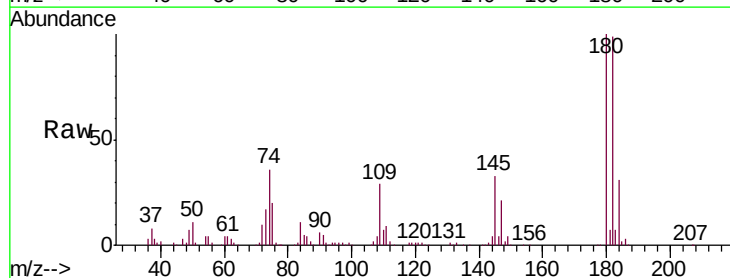


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

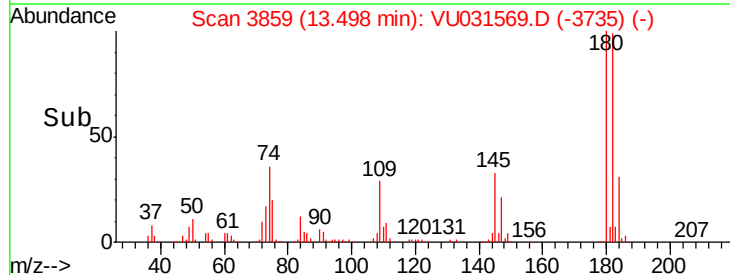
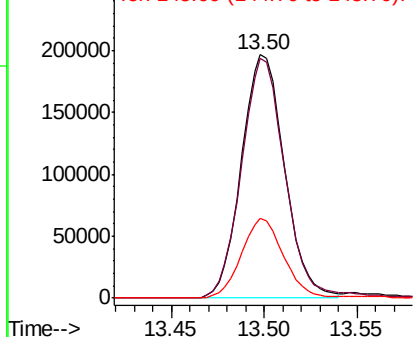


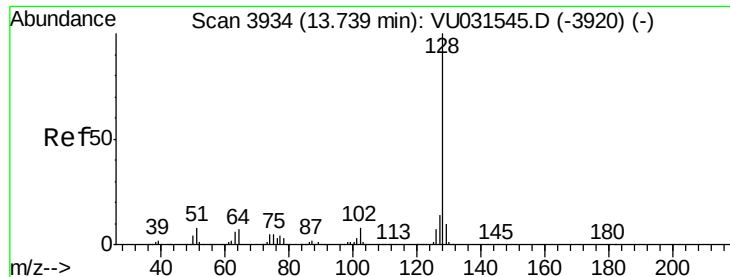
#68
 1,2,4-trichlorobenzene
 Concen: 48.363 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031569.D
 Acq: 27 Apr 2019 06:29

Tgt Ion:	180	Resp:	317286
Ion	Ratio	Lower	Upper
180	100		
182	99.9	75.8	113.8
145	32.3	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: 54.445 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05051

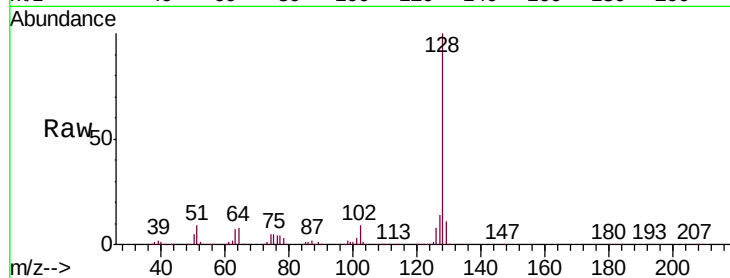
Tgt Ion:128 Resp: 1217819

Ion Ratio Lower Upper

128 100

127 13.4 10.6 15.8

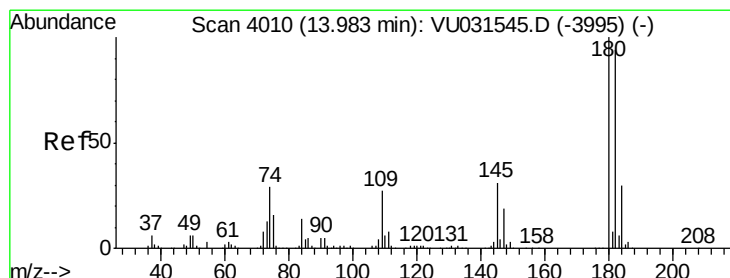
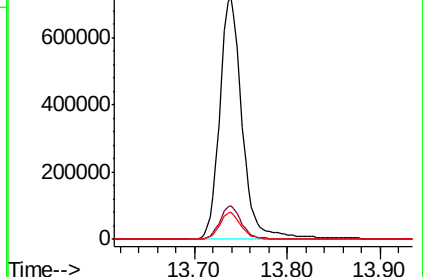
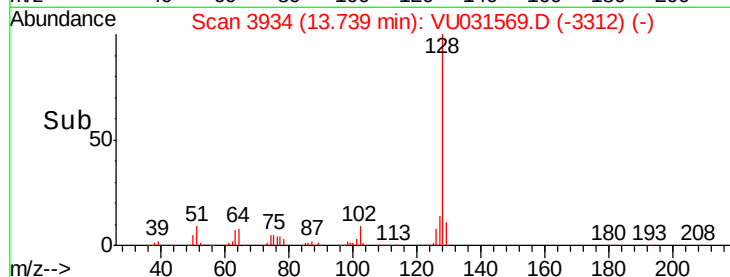
129 10.6 8.7 13.1



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: 47.047 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031569.D

Acq: 27 Apr 2019 06:29

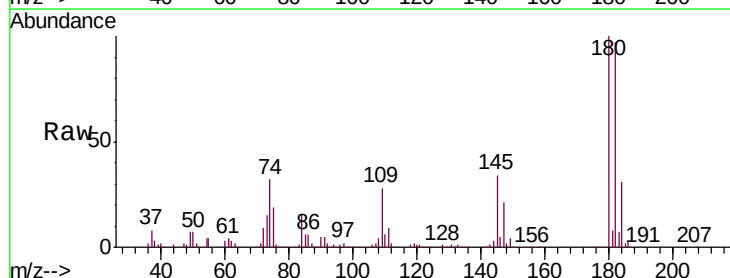
Tgt Ion:180 Resp: 351399

Ion Ratio Lower Upper

180 100

182 97.6 76.1 114.1

145 34.1 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

