

Data File : VU030429.D
Acq On : 26 Mar 2019 09:11
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

Quant Time: Mar 27 04:27:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 26 01:25:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	440716	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	416243	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	194220	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	193404	54.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	109.06%
7) Chloroethane-d5	1.67	69	154920	55.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	110.22%
11) 1,1-Dichloroethene-d2	2.27	63	360478	53.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.16%
21) 2-Butanone-d5	4.17	46	341575	102.45	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.45%
24) Chloroform-d	4.64	84	329710	53.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.90%
26) 1,2-Dichloroethane-d4	5.31	65	209829	52.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.94%
32) Benzene-d6	5.34	84	638822	53.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.04%
36) 1,2-Dichloropropane-d6	6.33	67	223838	54.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	109.62%
41) Toluene-d8	7.56	98	570437	53.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.42%
43) trans-1,3-Dichloropropene-	7.85	79	102169	53.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	106.40%
47) 2-Hexanone-d5	8.31	63	224178	101.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.29%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	307474	52.61	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.22%
64) 1,2-Dichlorobenzene-d4	11.85	152	202634	52.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.14%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	247886	50.978	ug/L	99
3) Chloromethane	1.33	50	266791	49.057	ug/L	100
5) Vinyl chloride	1.40	62	259957	50.408	ug/L	98
6) Bromomethane	1.61	94	107743	45.542	ug/L	97
8) Chloroethane	1.69	64	149605	51.386	ug/L	96
9) Trichlorofluoromethane	1.88	101	295088	52.472	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	169762	52.778	ug/L	99
12) 1,1-Dichloroethene	2.28	96	158177	50.164	ug/L	89
13) Acetone	2.32	43	385747	114.402	ug/L	100
14) Carbon disulfide	2.47	76	512243	49.132	ug/L	100
15) Methyl Acetate	2.61	43	256264	49.634	ug/L #	100
16) Methylene chloride	2.70	84	188508	50.712	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	162992	49.270	ug/L	97
18) Methyl tert-butyl Ether	3.00	73	555912	50.815	ug/L	99
19) 1,1-Dichloroethane	3.44	63	350494	51.642	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	183123	49.359	ug/L	97
22) 2-Butanone	4.26	43	432688	106.165	ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	87261	50.603	ug/L	96
25) Chloroform	4.67	83	327578	50.764	ug/L	98
27) 1,2-Dichloroethane	5.40	62	261919	51.726	ug/L	98
29) Cyclohexane	4.99	56	336928	53.489	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	268141	52.611	ug/L	100
31) Carbon tetrachloride	5.13	117	230957	53.462	ug/L	100
33) Benzene	5.39	78	746687	52.697	ug/L	100
34) Trichloroethene	6.18	95	178677	51.296	ug/L	97
35) Methylcyclohexane	6.41	83	303506	52.950	ug/L	99
37) 1,2-Dichloropropane	6.43	63	208423	51.832	ug/L	100
38) Bromodichloromethane	6.75	83	247715	51.846	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	307651	53.229	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	663089	98.174	ug/L	99
42) Toluene	7.63	91	770311	52.383	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	270784	53.246	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	176120	51.837	ug/L	100
46) Tetrachloroethene	8.22	164	127646	52.466	ug/L	97
48) 2-Hexanone	8.36	43	549789	99.317	ug/L	99
49) Dibromochloromethane	8.47	129	185465	52.535	ug/L	99
50) 1,2-Dibromoethane	8.58	107	187646	51.462	ug/L	97
51) Chlorobenzene	9.12	112	456444	51.215	ug/L	99
52) Ethylbenzene	9.25	91	832660	52.270	ug/L	100
53) m,p-Xylene	9.37	106	295882	51.441	ug/L	98
54) o-xylene	9.77	106	296529	52.835	ug/L	96
55) Styrene	9.79	104	509865	52.739	ug/L	100
56) Isopropylbenzene	10.16	105	780502	52.521	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	316643	50.567	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	245828	50.226	ug/L	100
61) Bromoform	9.95	173	133193	51.580	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	322999	50.854	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	330227	50.503	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	335326	52.212	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	66973	46.833	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	242891	51.082	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	201065	48.667	ug/L	98
69) Naphthalene	13.74	128	624636	42.519	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	208235	47.732	ug/L	100

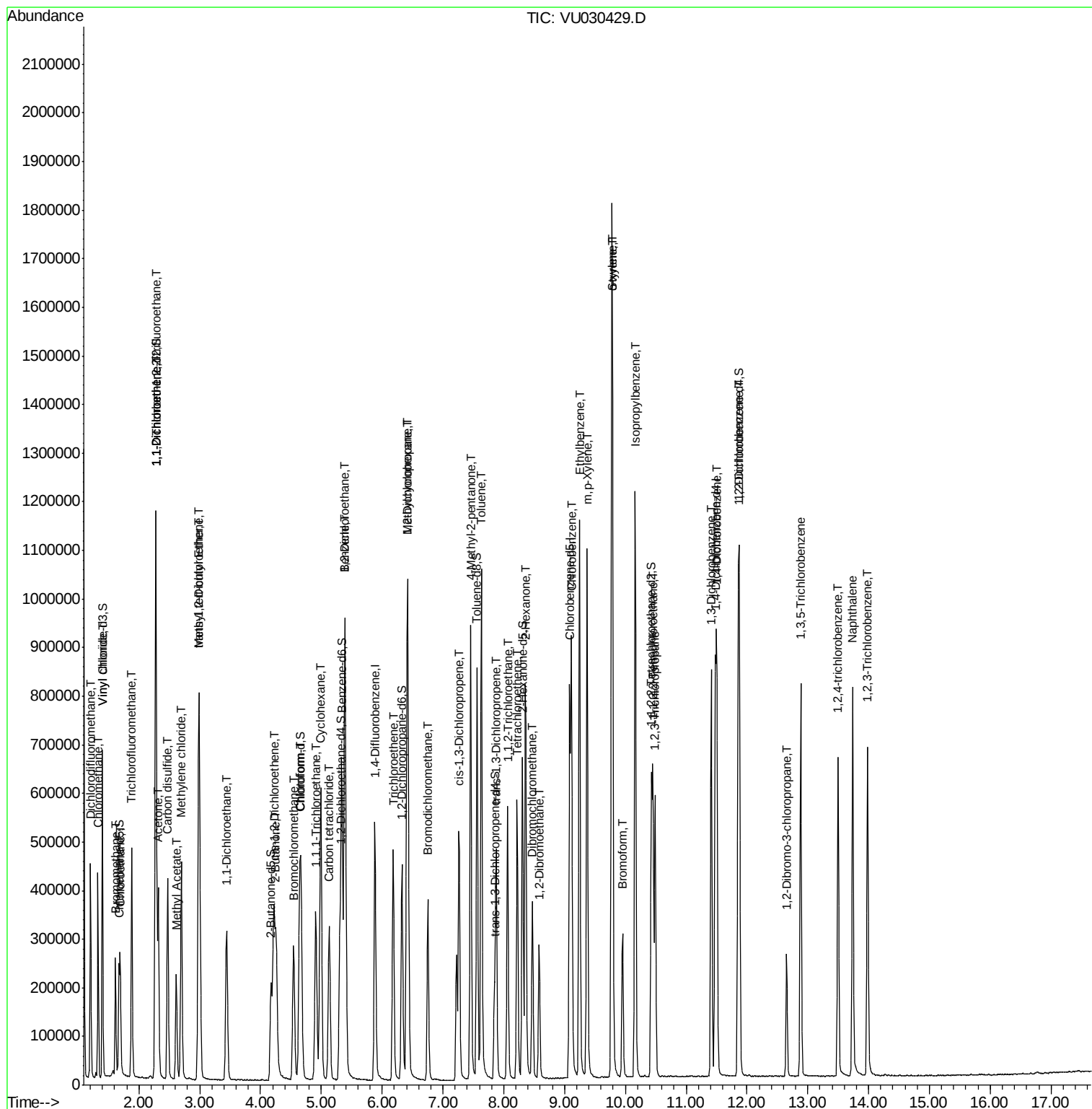
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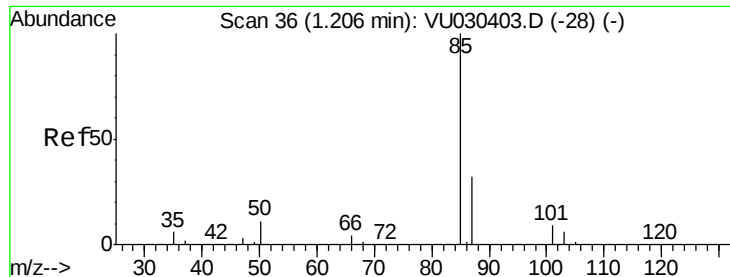
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#2

Dichlorodifluoromethane

Concen: 50.978 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampled :

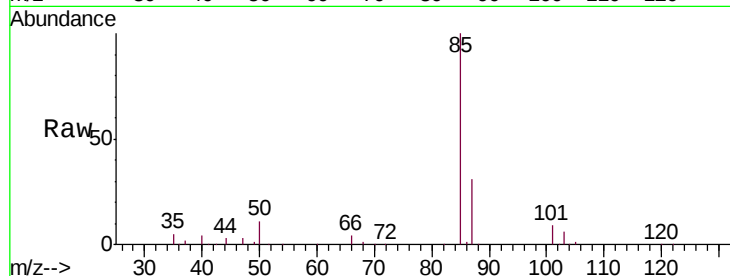
VSTD05032

Tgt Ion: 85 Resp: 247886

Ion Ratio Lower Upper

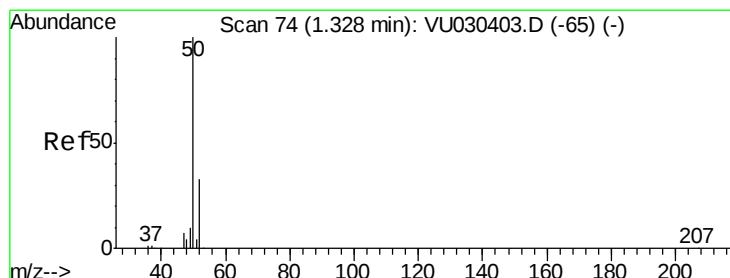
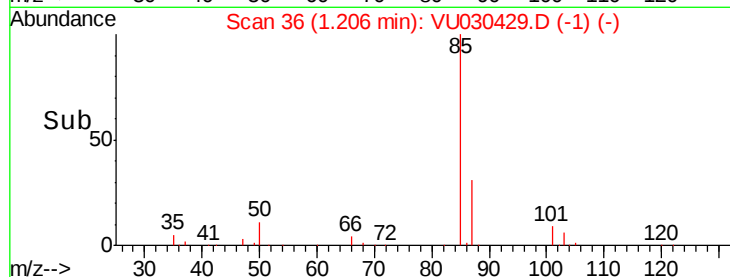
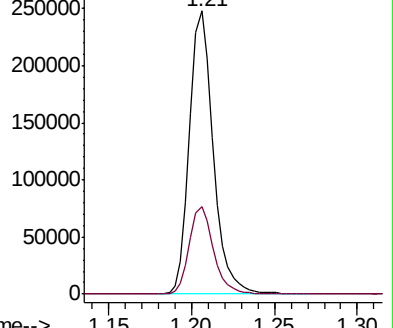
85 100

87 31.4 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU030403.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU030403.D (-28) (-)



#3

Chloromethane

Concen: 49.057 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU030429.D

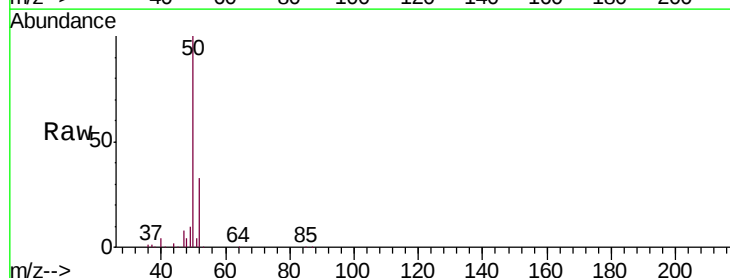
Acq: 26 Mar 2019 09:11

Tgt Ion: 50 Resp: 266791

Ion Ratio Lower Upper

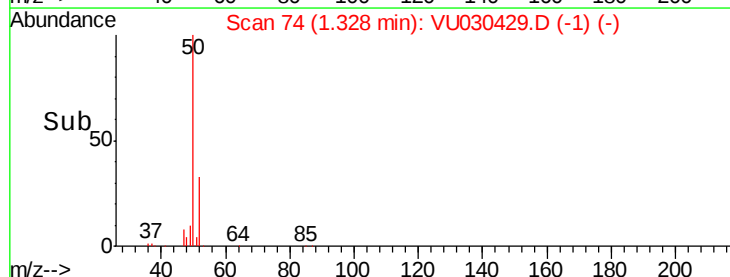
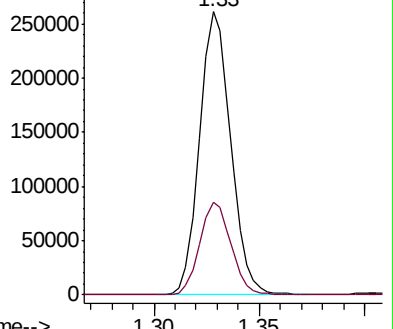
50 100

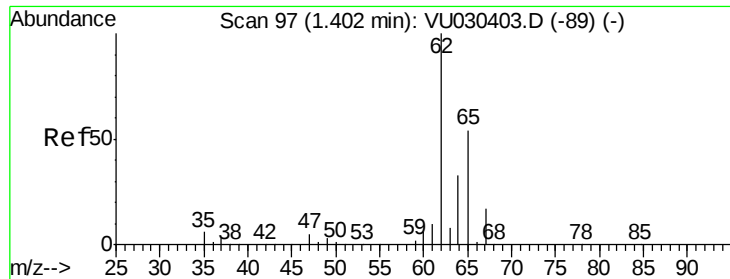
52 32.9 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU030403.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU030403.D (-65) (-)





#5

Vinyl chloride

Concen: 50.408 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

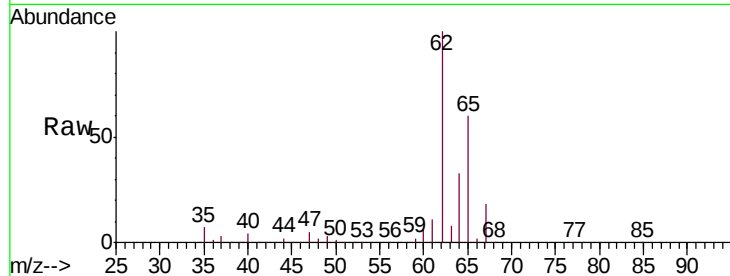
VSTD05032

Tgt Ion: 62 Resp: 259957

Ion Ratio Lower Upper

62 100

64 33.3 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU030403.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU030403.D (-89) (-)

1.40

250000

200000

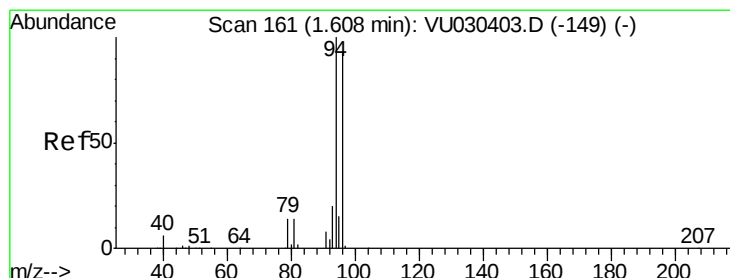
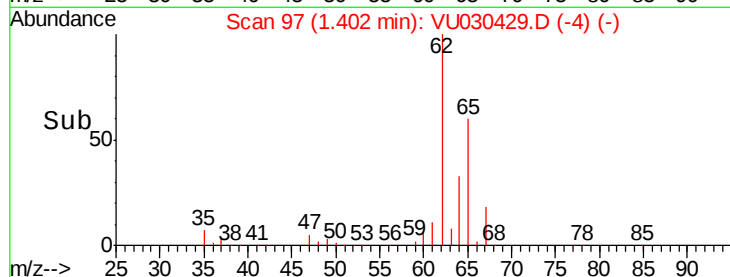
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 45.542 ug/L

RT: 1.61 min Scan# 163

Delta R.T. 0.01 min

Lab File: VU030429.D

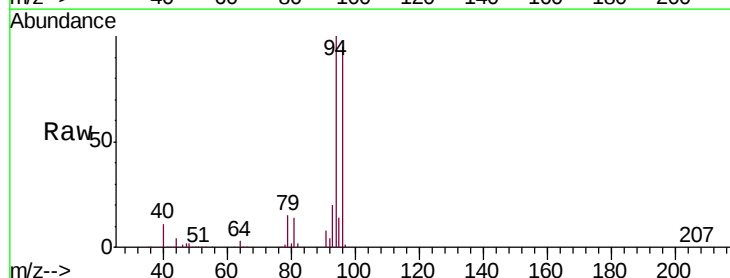
Acq: 26 Mar 2019 09:11

Tgt Ion: 94 Resp: 107743

Ion Ratio Lower Upper

94 100

96 95.4 64.8 120.3



Abundance Ion 94.00 (93.70 to 94.70): VU030403.D (-149) (-)

Ion 96.00 (95.70 to 96.70): VU030403.D (-149) (-)

1.61

100000

80000

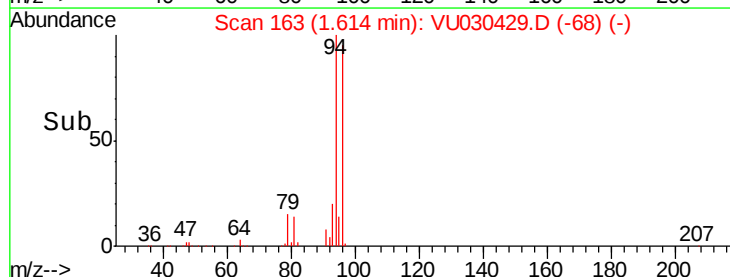
60000

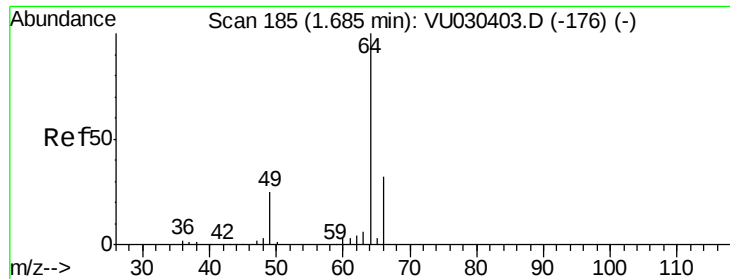
40000

20000

0

Time-->





#8

Chloroethane

Concen: 51.386 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.01 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

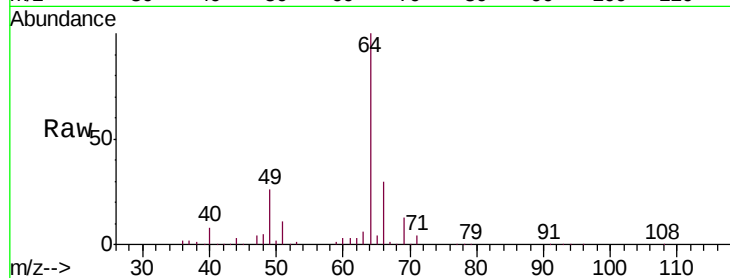
VSTD05032

Tgt Ion: 64 Resp: 149605

Ion Ratio Lower Upper

64 100

66 29.8 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU030429.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU030429.D (-176) (-)

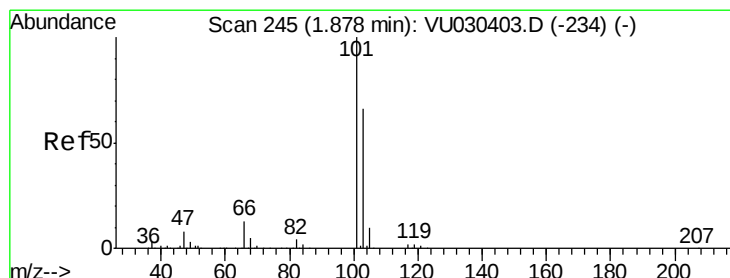
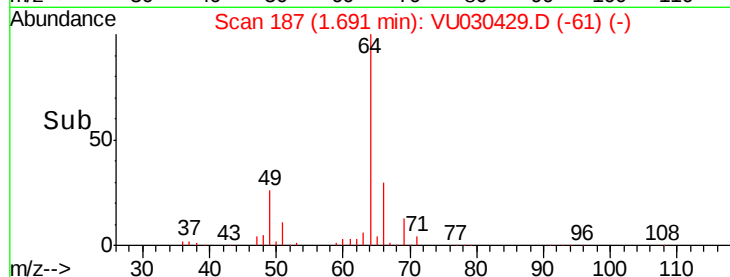
1.69

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 52.472 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU030429.D

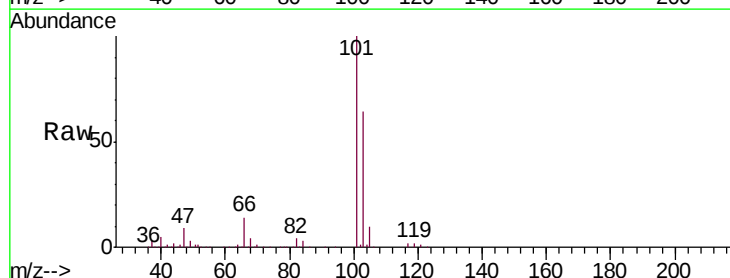
Acq: 26 Mar 2019 09:11

Tgt Ion: 101 Resp: 295088

Ion Ratio Lower Upper

101 100

103 64.2 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU030429.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU030429.D (-234) (-)

1.88

200000

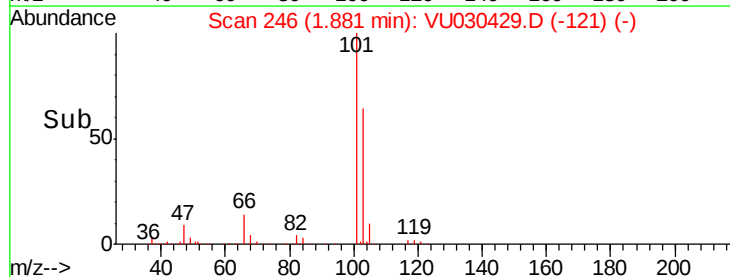
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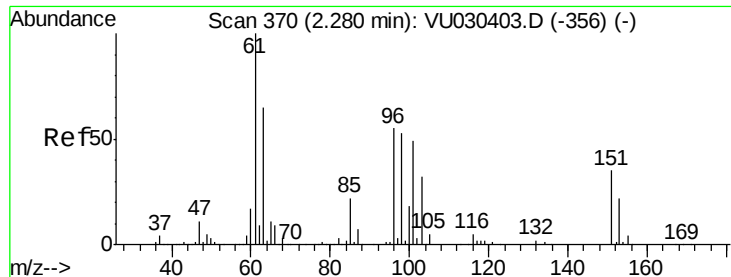
100000

50000

0

Time-->





#10

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

Concen: 52.778 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

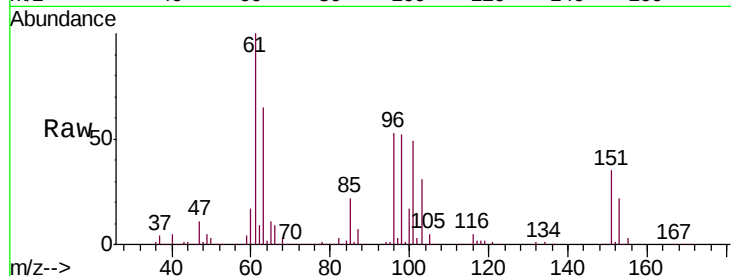
Tgt Ion: 101 Resp: 169762

Ion Ratio Lower Upper

101 100

85 43.9 34.8 52.2

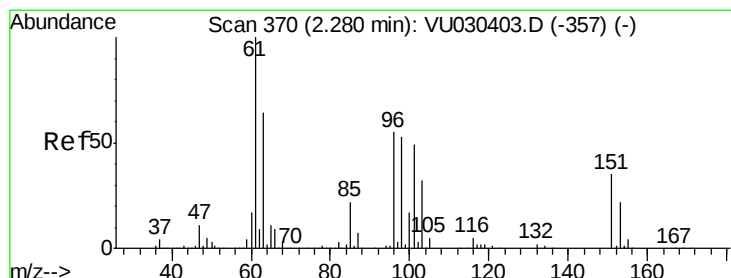
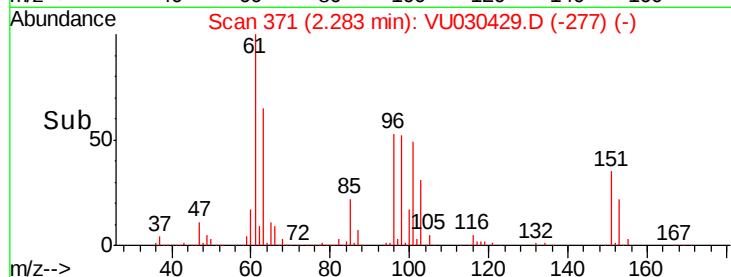
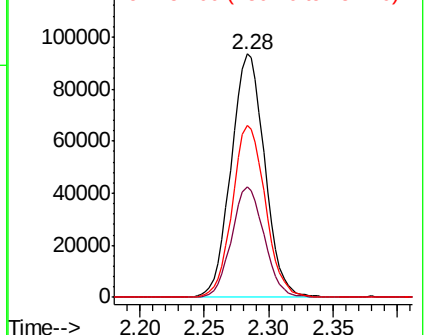
151 69.4 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 50.164 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

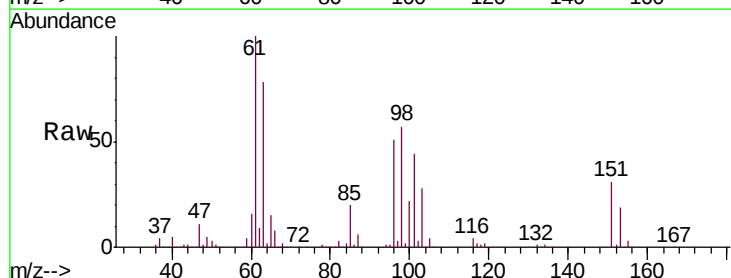
Tgt Ion: 96 Resp: 158177

Ion Ratio Lower Upper

96 100

61 196.6 131.0 243.4

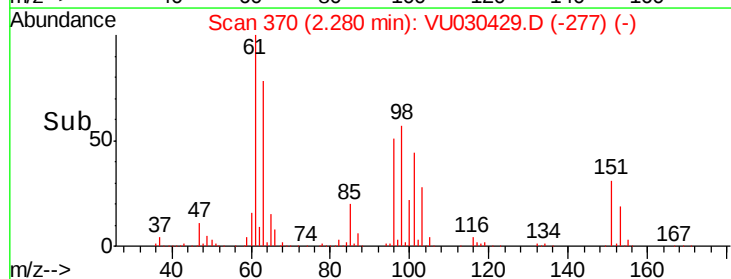
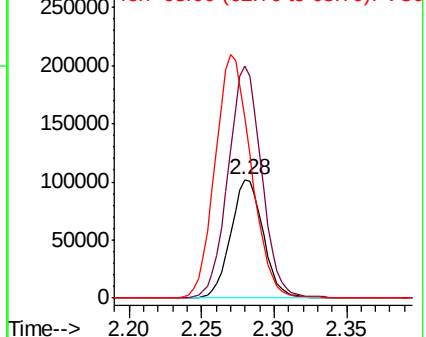
63 152.6 92.4 171.6

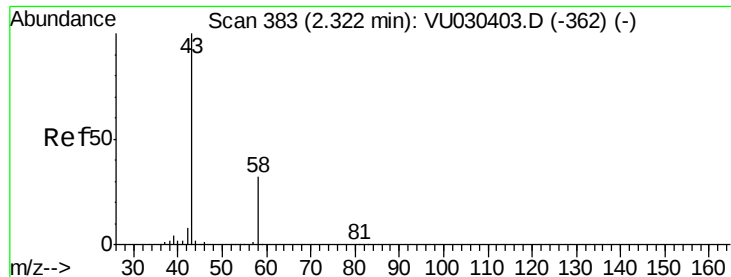


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 114.402 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

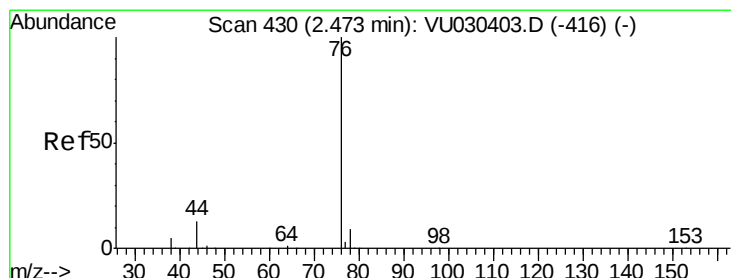
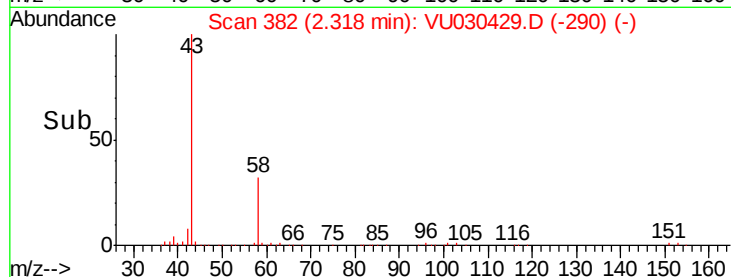
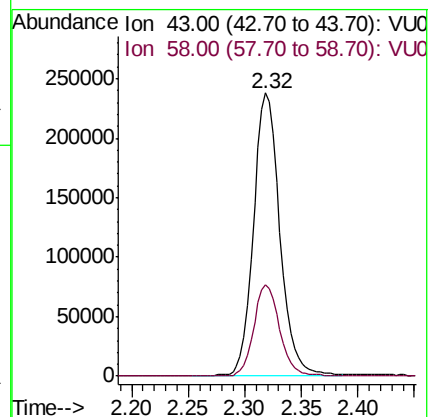
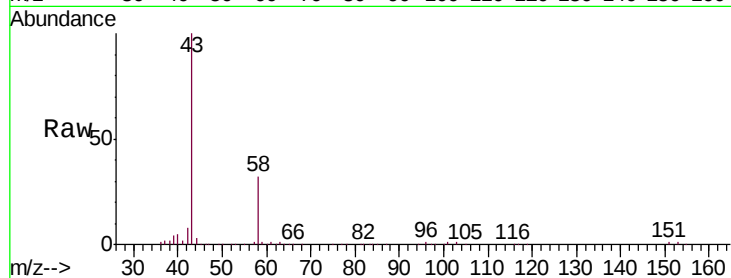
VSTD05032

Tgt Ion: 43 Resp: 385747

Ion Ratio Lower Upper

43 100

58 31.6 0.0 62.8



#14

Carbon disulfide

Concen: 49.132 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU030429.D

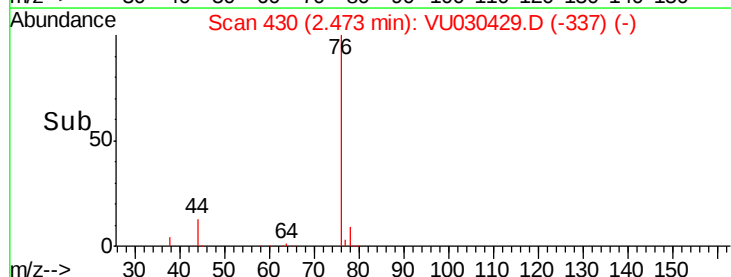
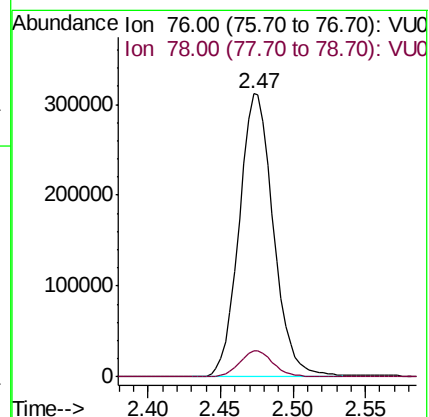
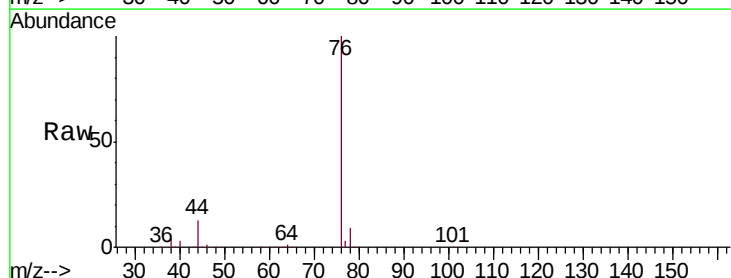
Acq: 26 Mar 2019 09:11

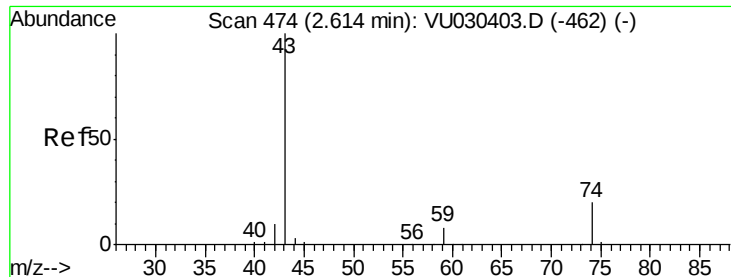
Tgt Ion: 76 Resp: 512243

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9

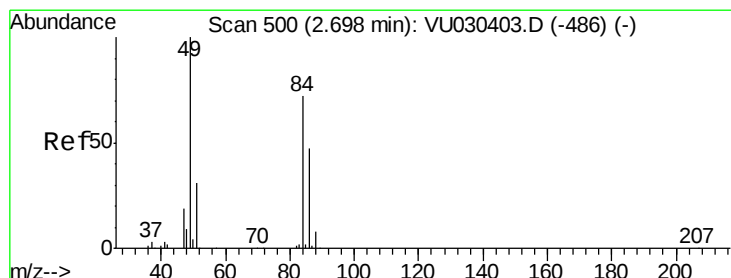
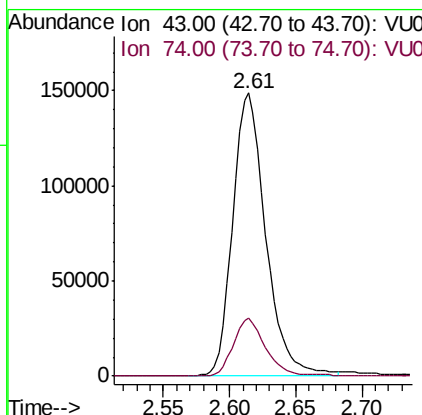
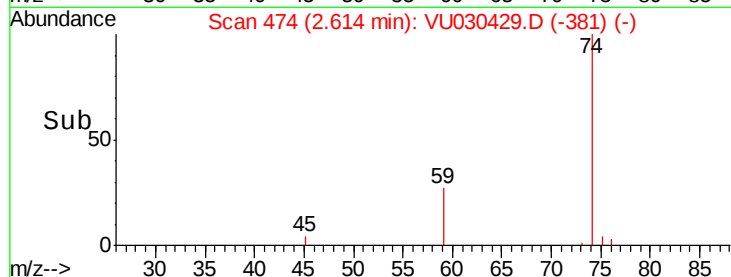
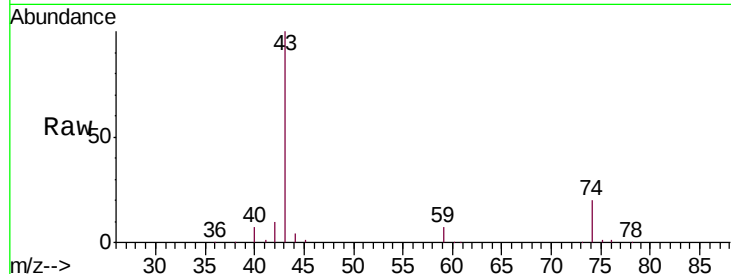




#15
Methyl Acetate
Concen: 49.634 ug/L
RT: 2.61 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU030429.D
Acq: 26 Mar 2019 09:11

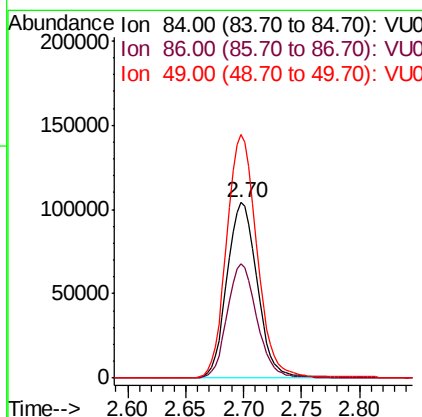
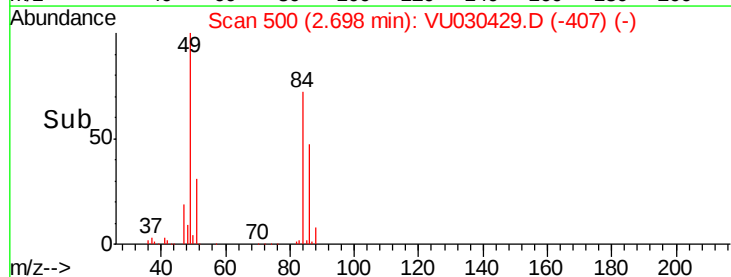
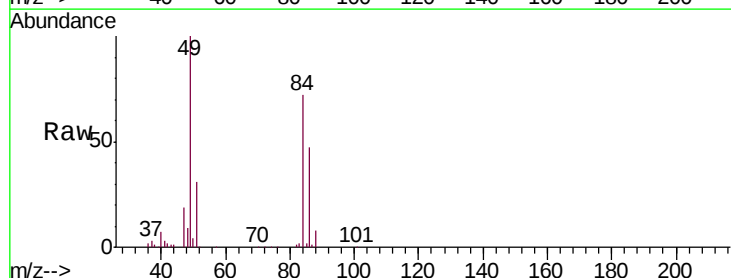
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

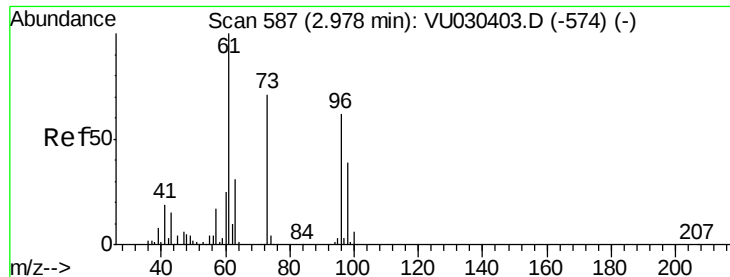
Tgt Ion: 43 Resp: 256264
Ion Ratio Lower Upper
43 100
74 19.9 0.0 0.0#



#16
Methylene chloride
Concen: 50.712 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU030429.D
Acq: 26 Mar 2019 09:11

Tgt Ion: 84 Resp: 188508
Ion Ratio Lower Upper
84 100
86 65.3 44.3 82.3
49 138.5 94.9 176.3





#17

trans-1,2-Dichloroethene

Concen: 49.270 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

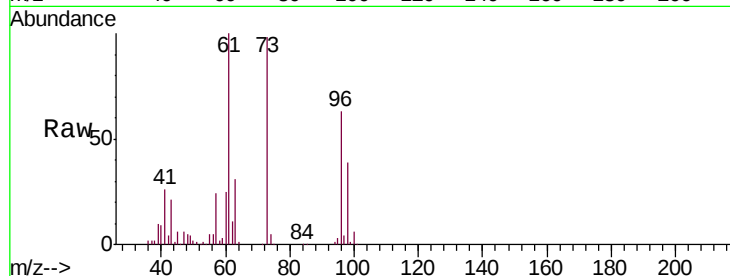
Tgt Ion: 96 Resp: 162992

Ion Ratio Lower Upper

96 100

61 158.7 108.6 201.8

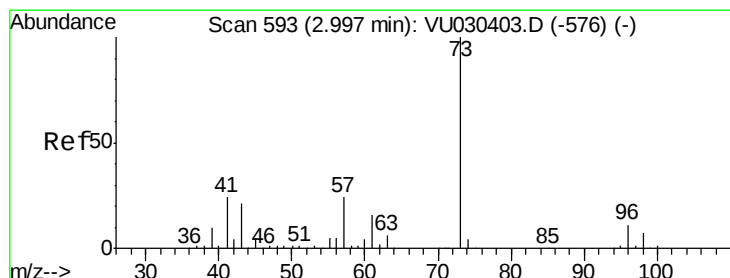
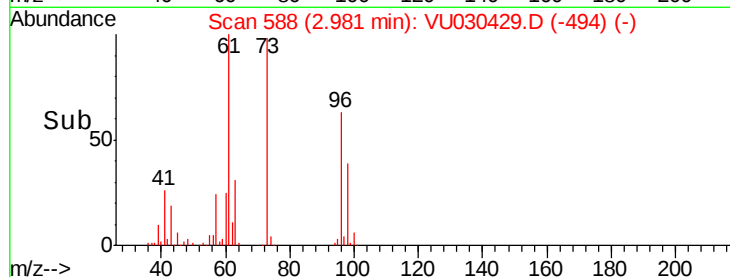
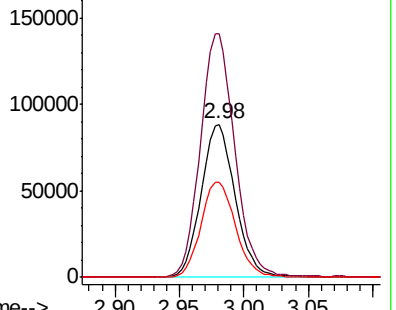
98 62.1 42.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VU030403.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU030403.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU030403.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 50.815 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

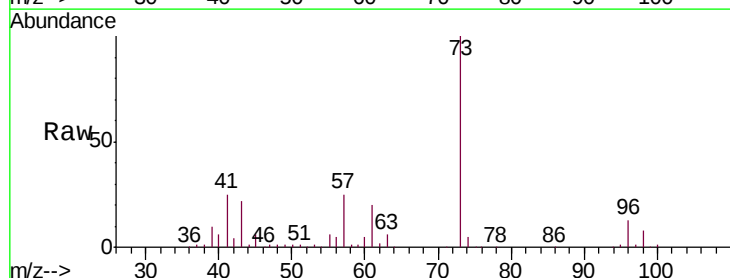
Tgt Ion: 73 Resp: 555912

Ion Ratio Lower Upper

73 100

43 21.1 16.6 24.8

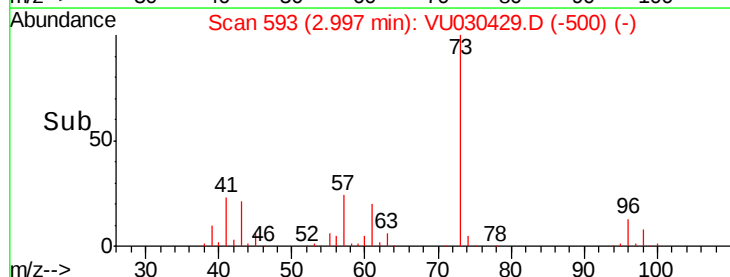
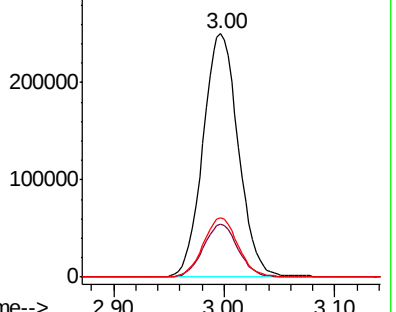
57 24.0 18.9 28.3

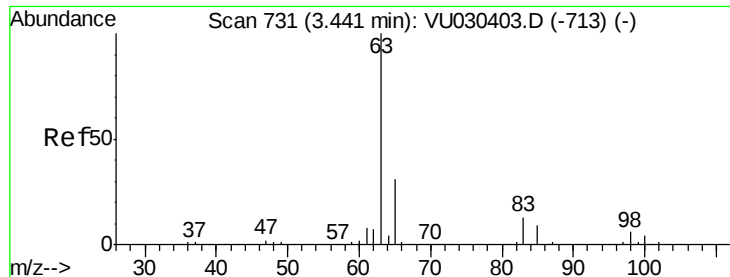


Abundance Ion 73.00 (72.70 to 73.70): VU030403.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030403.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU030403.D (-576) (-)

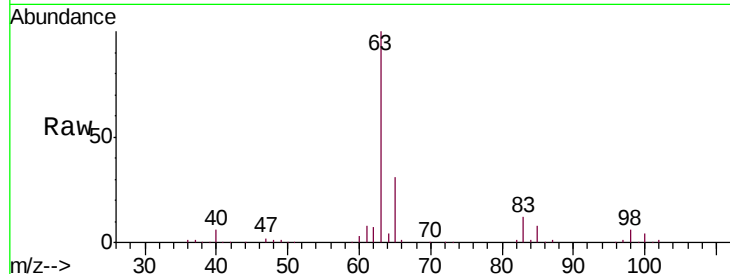




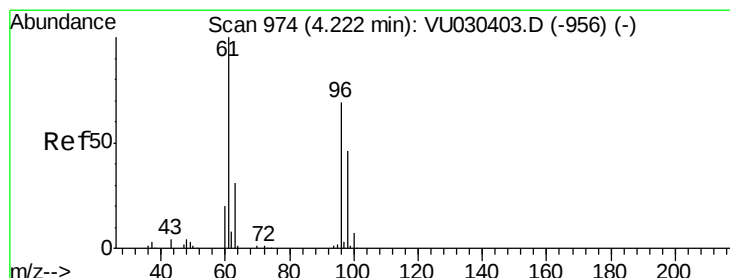
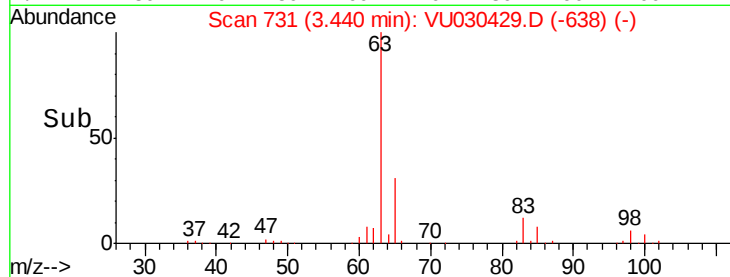
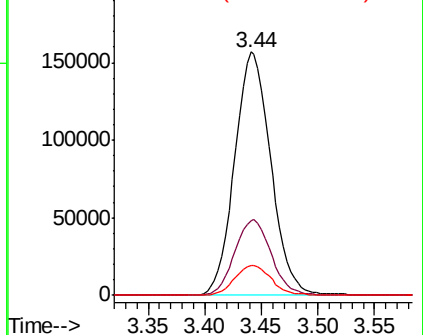
#19
 1,1-Dichloroethane
 Concen: 51.642 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

Tgt Ion: 63 Resp: 350494
 Ion Ratio Lower Upper
 63 100
 65 30.8 22.0 40.8
 83 12.2 9.1 16.9

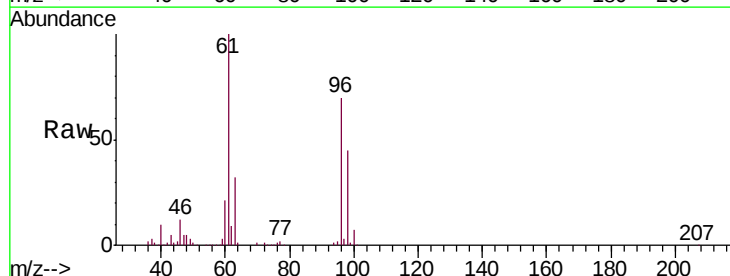


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

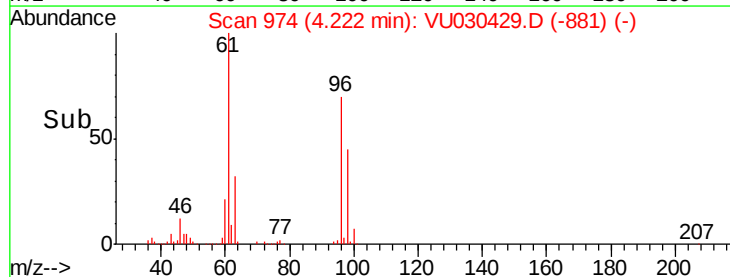
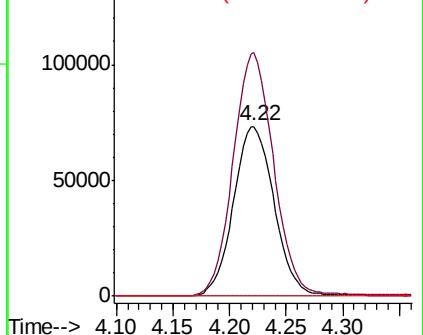


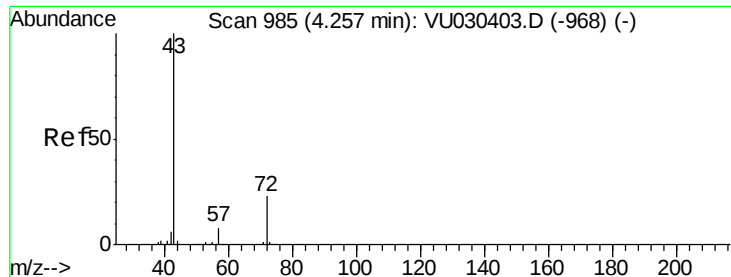
#20
 cis-1,2-Dichloroethene
 Concen: 49.359 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

Tgt Ion: 96 Resp: 183123
 Ion Ratio Lower Upper
 96 100
 61 143.7 98.4 182.8
 68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 106.165 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

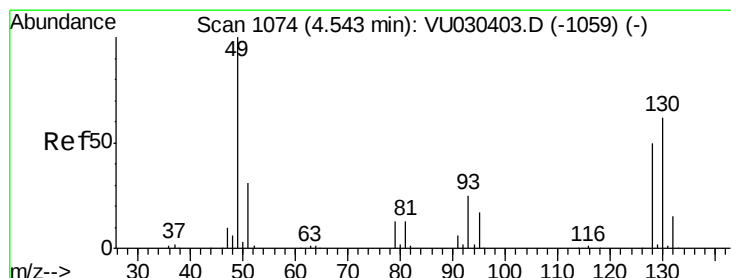
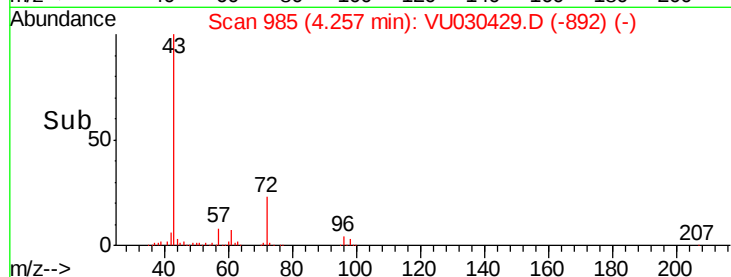
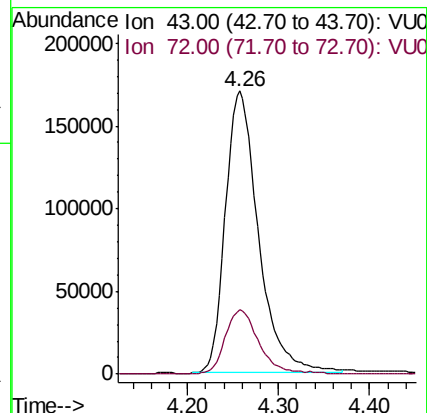
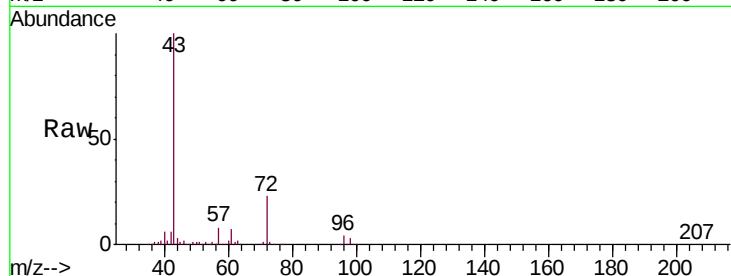
VSTD05032

Tgt Ion: 43 Resp: 432688

Ion Ratio Lower Upper

43 100

72 23.2 12.0 36.1



#23

Bromochloromethane

Concen: 50.603 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Tgt Ion: 128 Resp: 87261

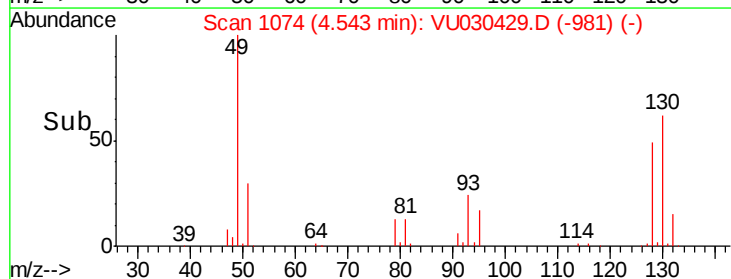
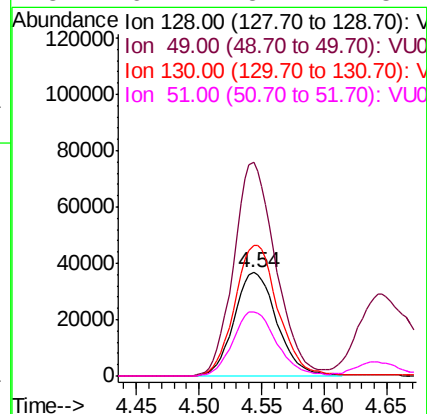
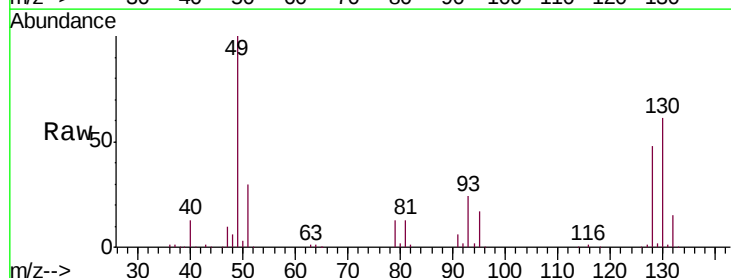
Ion Ratio Lower Upper

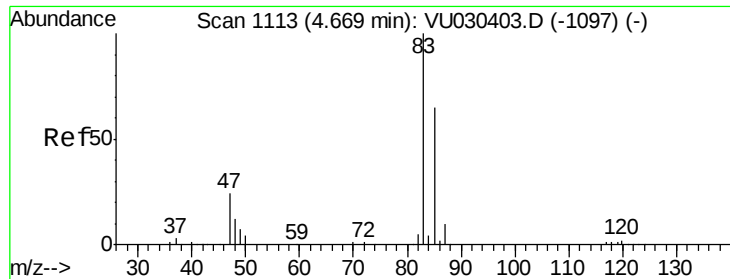
128 100

49 206.7 145.5 270.3

130 126.0 95.3 177.1

51 62.4 52.2 78.2





#25

Chloroform

Concen: 50.764 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

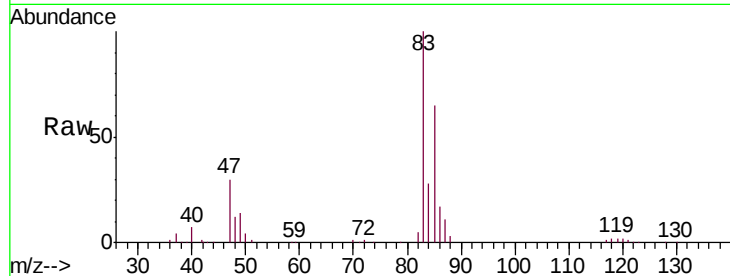
VSTD05032

Tgt Ion: 83 Resp: 327578

Ion Ratio Lower Upper

83 100

85 65.3 44.4 82.4



Abundance Ion 83.00 (82.70 to 83.70): VU030403.D (-1097) (-)

Ion 85.00 (84.70 to 85.70): VU030403.D (-1097) (-)

4.67

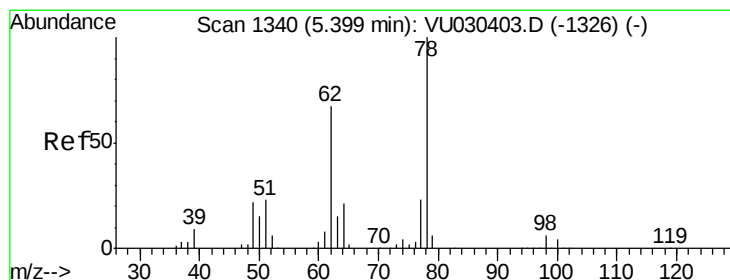
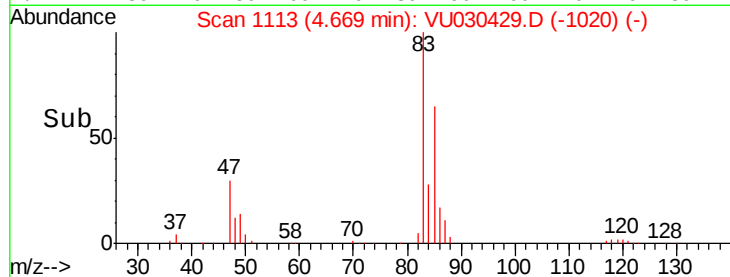
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 51.726 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU030429.D

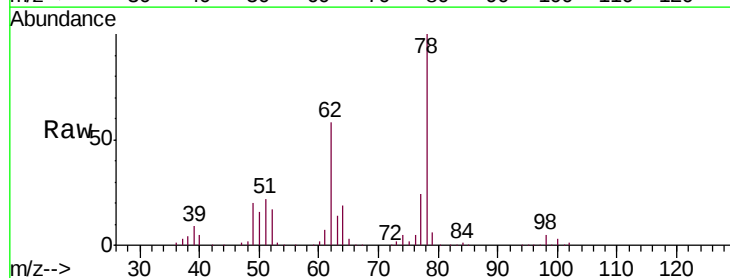
Acq: 26 Mar 2019 09:11

Tgt Ion: 62 Resp: 261919

Ion Ratio Lower Upper

62 100

98 8.2 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU030403.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU030403.D (-1326) (-)

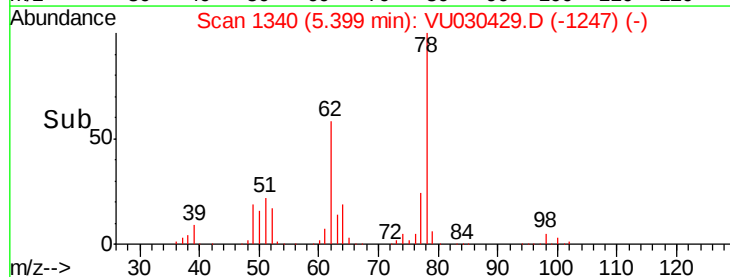
5.40

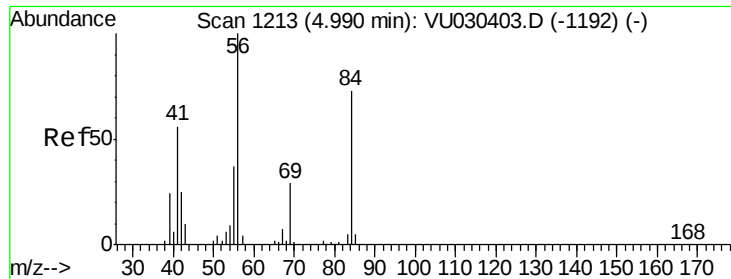
100000

50000

0

Time-->

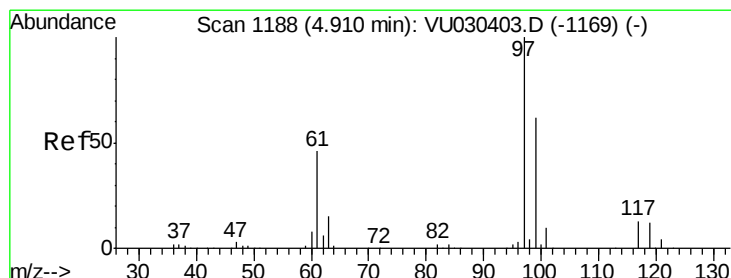
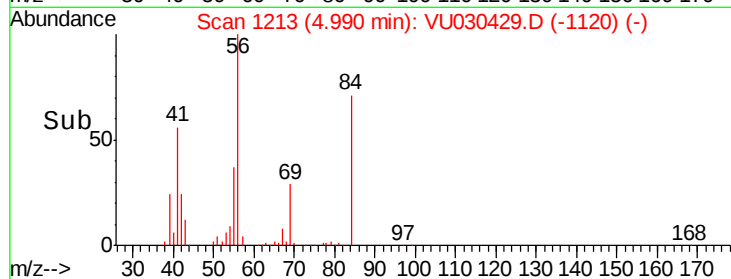
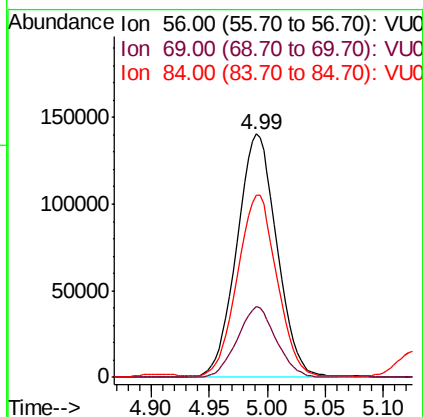
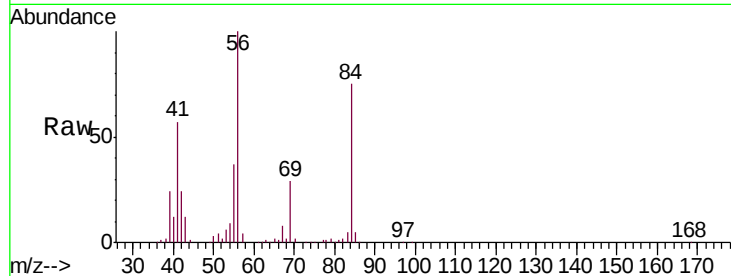




#29
Cyclohexane
Concen: 53.489 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU030429.D
Acq: 26 Mar 2019 09:11

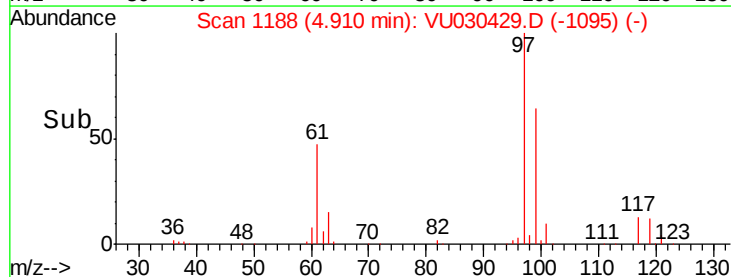
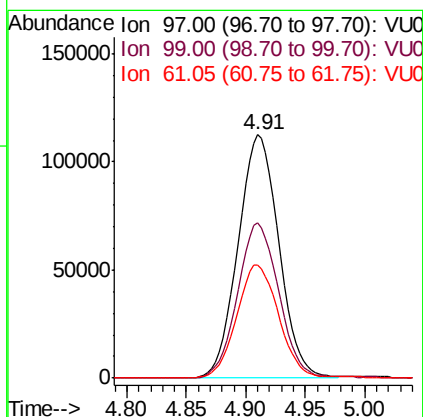
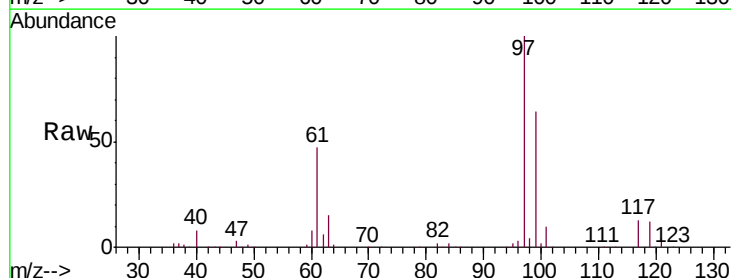
Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

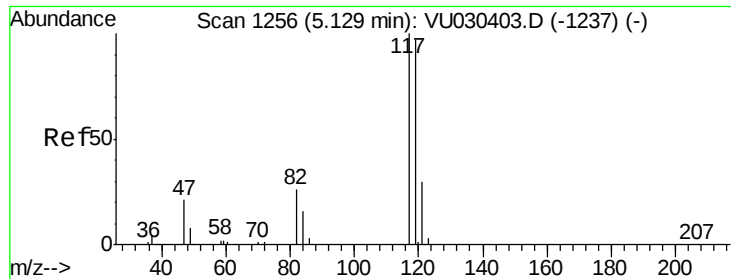
Tgt Ion: 56 Resp: 336928
Ion Ratio Lower Upper
56 100
69 28.3 22.9 34.3
84 73.2 58.9 88.3



#30
1,1,1-Trichloroethane
Concen: 52.611 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU030429.D
Acq: 26 Mar 2019 09:11

Tgt Ion: 97 Resp: 268141
Ion Ratio Lower Upper
97 100
99 64.4 51.8 77.6
61 47.9 38.2 57.4





#31

Carbon tetrachloride

Concen: 53.462 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

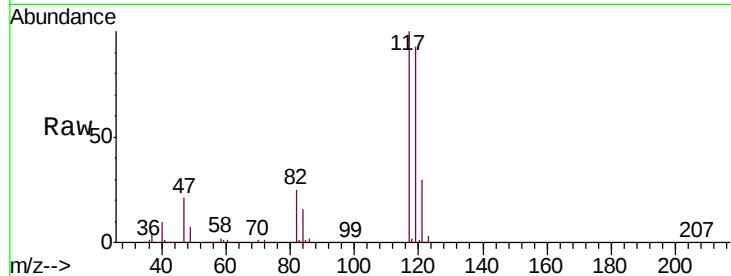
VSTD05032

Tgt Ion:117 Resp: 230957

Ion Ratio Lower Upper

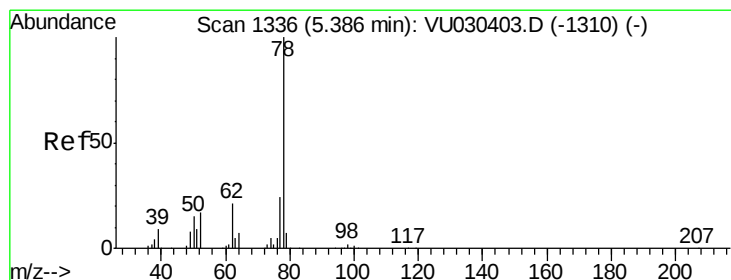
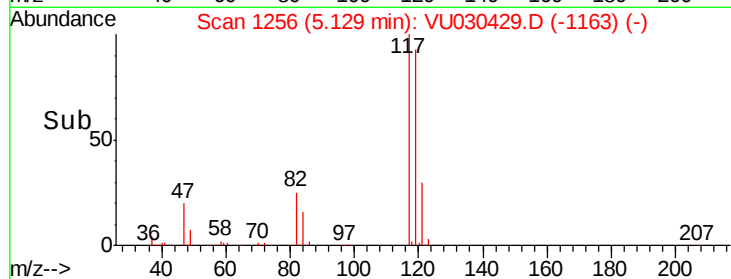
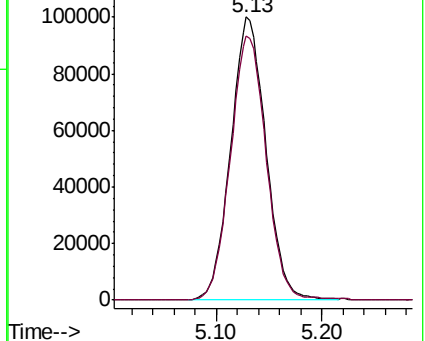
117 100

119 94.7 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.697 ug/L

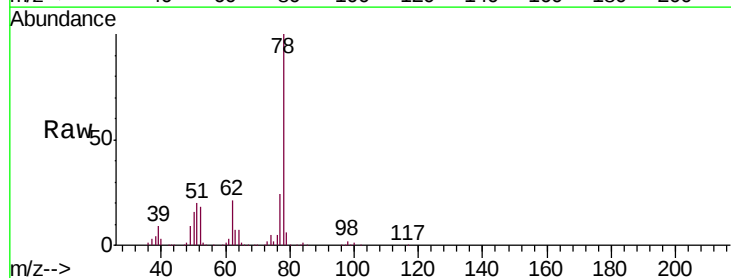
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

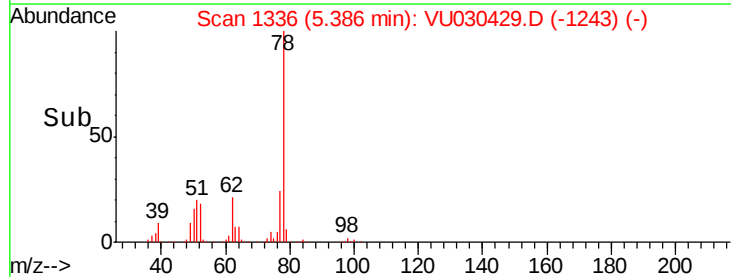
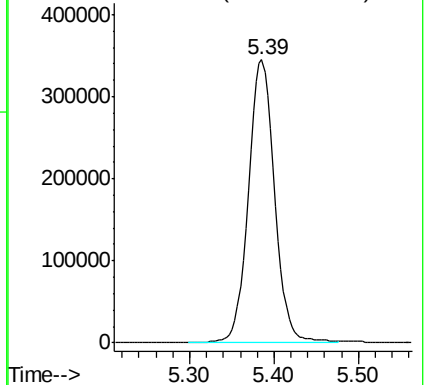
Lab File: VU030429.D

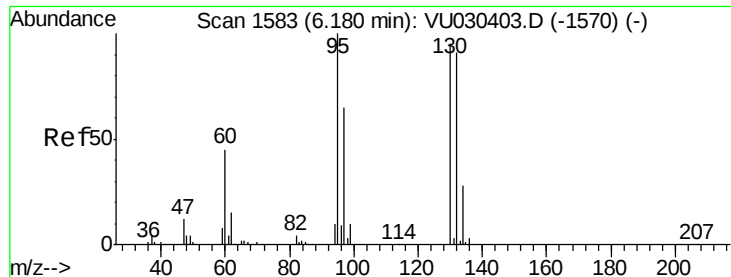
Acq: 26 Mar 2019 09:11

Tgt Ion: 78 Resp: 746687



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 51.296 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

Tgt Ion: 95 Resp: 178677

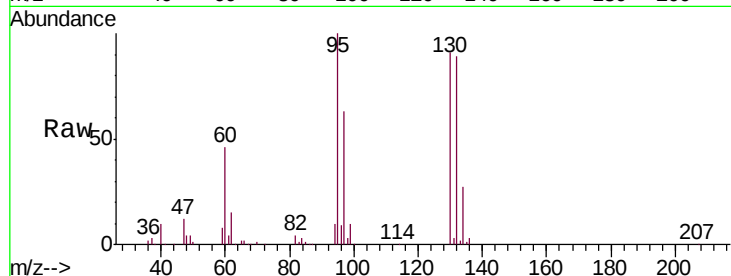
Ion Ratio Lower Upper

95 100

97 63.0 45.7 84.9

132 88.6 63.8 118.4

130 91.0 65.7 121.9

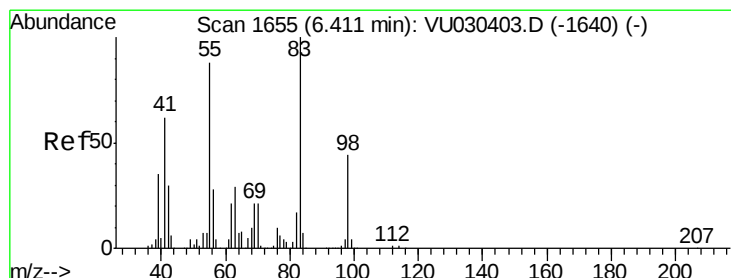
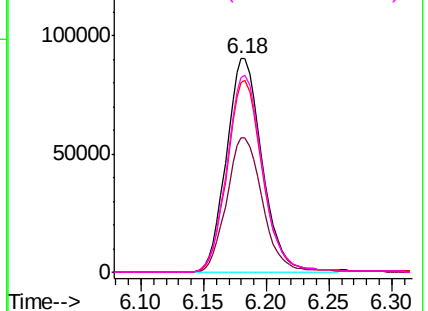
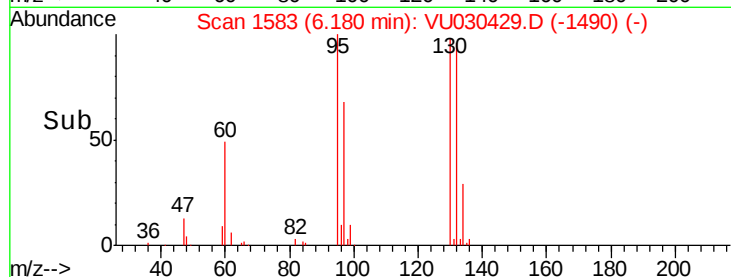


Abundance Ion 95.00 (94.70 to 95.70): VU030429.D (-1490) (-)

Ion 97.00 (96.70 to 97.70): VU030429.D (-1490) (-)

Ion 132.00 (131.70 to 132.70): VU030429.D (-1490) (-)

Ion 130.00 (129.70 to 130.70): VU030429.D (-1490) (-)



#35

Methylcyclohexane

Concen: 52.950 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

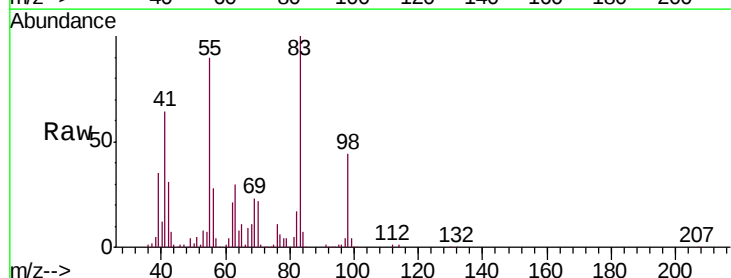
Tgt Ion: 83 Resp: 303506

Ion Ratio Lower Upper

83 100

55 90.8 71.4 107.0

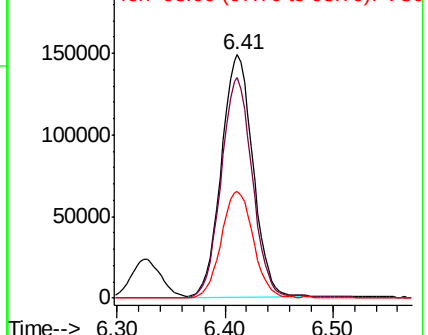
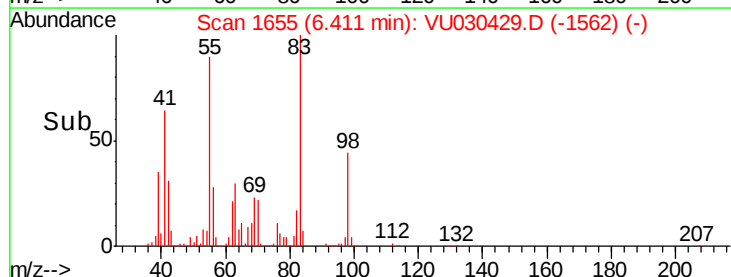
98 44.6 36.0 54.0

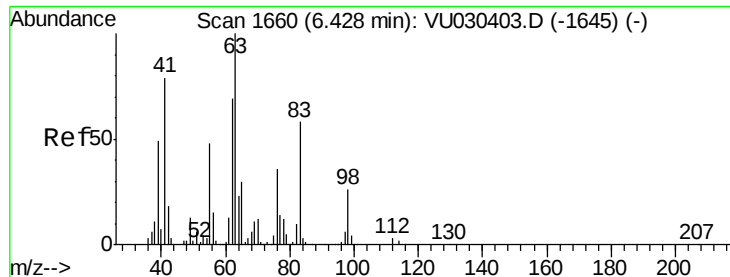


Abundance Ion 83.00 (82.70 to 83.70): VU030429.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU030429.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU030429.D (-1562) (-)





#37

1,2-Dichloropropane

Concen: 51.832 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

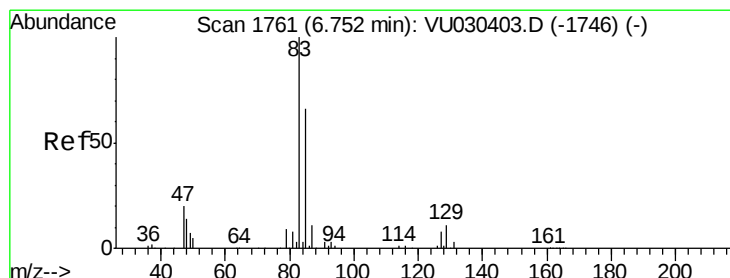
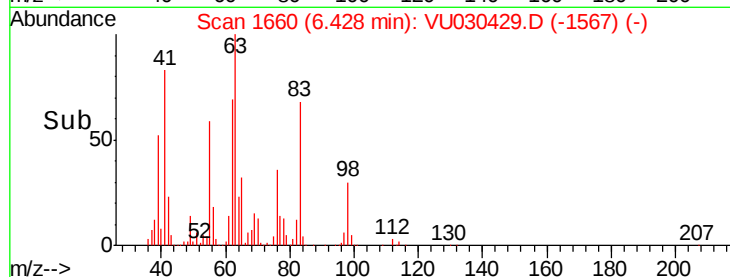
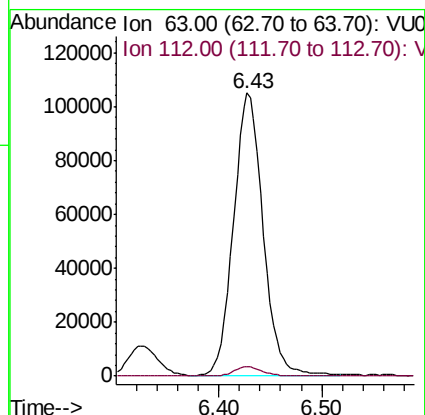
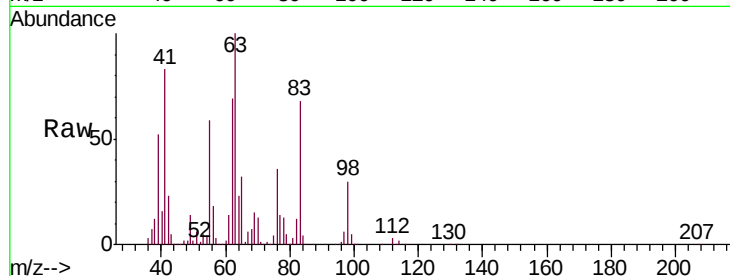
VSTD05032

Tgt Ion: 63 Resp: 208423

Ion Ratio Lower Upper

63 100

112 3.2 2.6 4.0



#38

Bromodichloromethane

Concen: 51.846 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

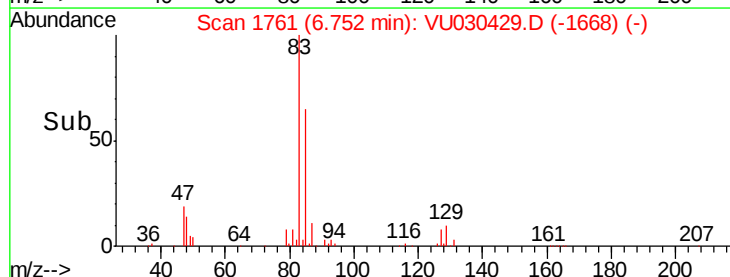
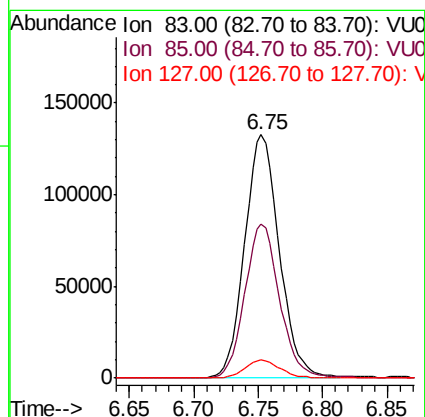
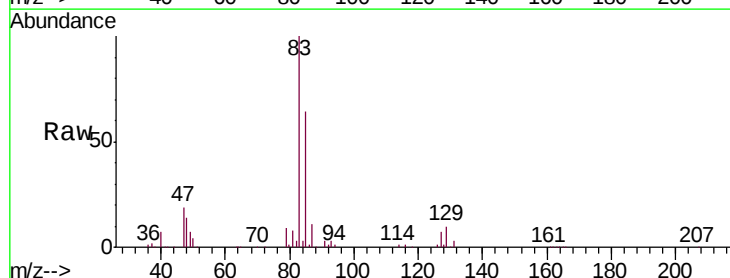
Tgt Ion: 83 Resp: 247715

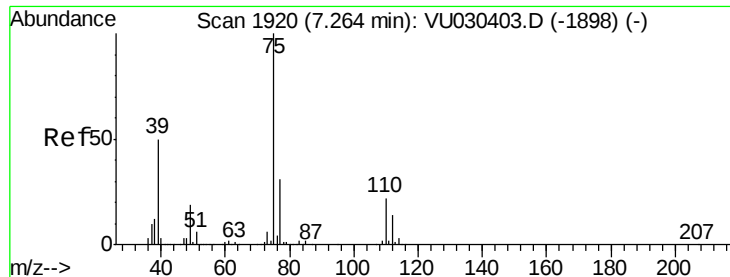
Ion Ratio Lower Upper

83 100

85 63.5 45.0 83.6

127 7.4 6.6 10.0

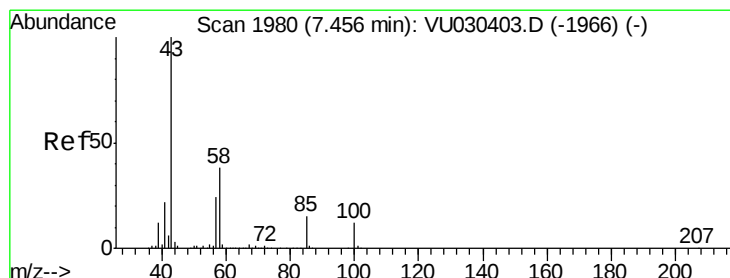
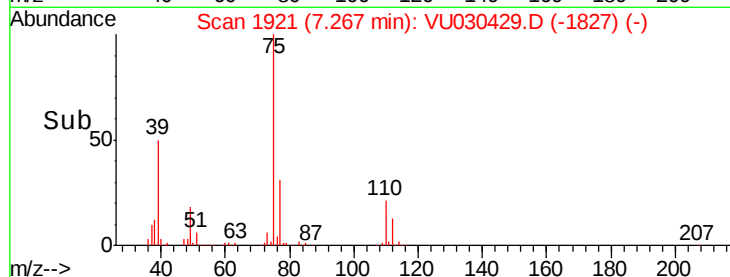
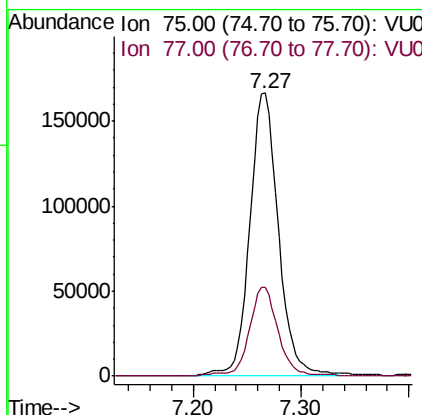
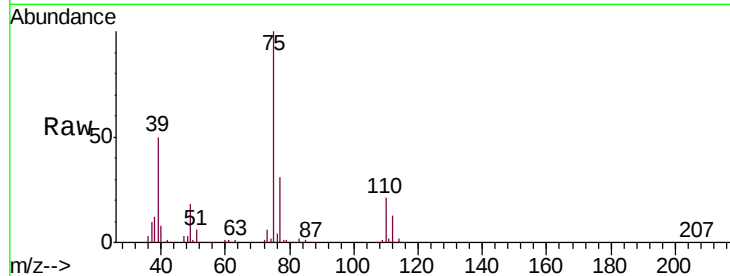




#39
 cis-1,3-Dichloropropene
 Concen: 53.229 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

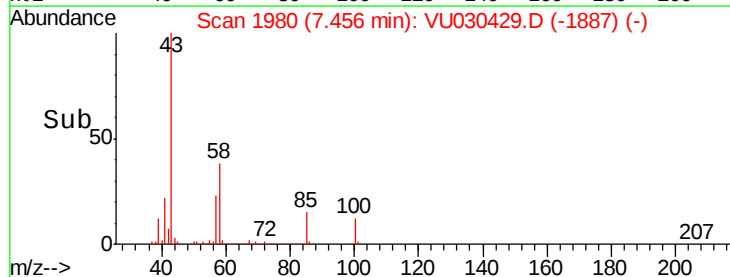
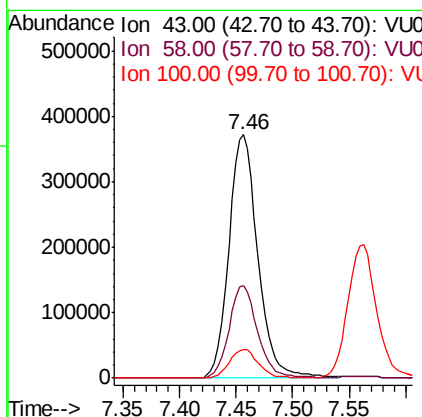
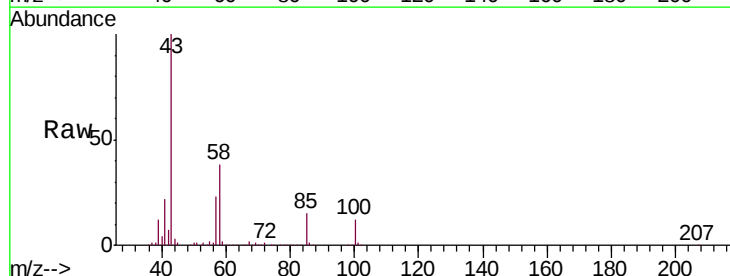
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

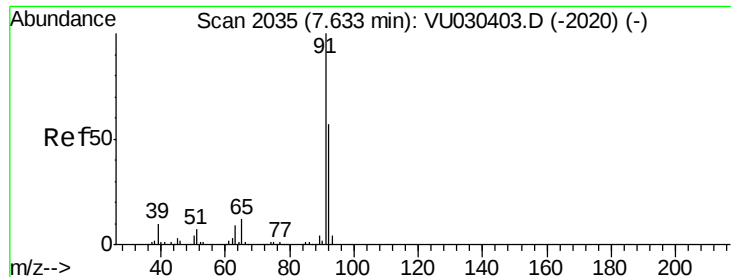
Tgt Ion: 75 Resp: 307651
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 98.174 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

Tgt Ion: 43 Resp: 663089
 Ion Ratio Lower Upper
 43 100
 58 37.4 30.6 45.8
 100 11.9 9.5 14.3





#42

Toluene

Concen: 52.383 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

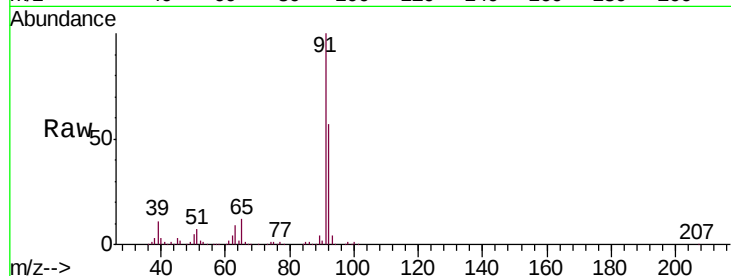
VSTD05032

Tgt Ion: 91 Resp: 770311

Ion Ratio Lower Upper

91 100

92 57.1 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VU030429.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU030429.D (-2020) (-)

7.63

400000

300000

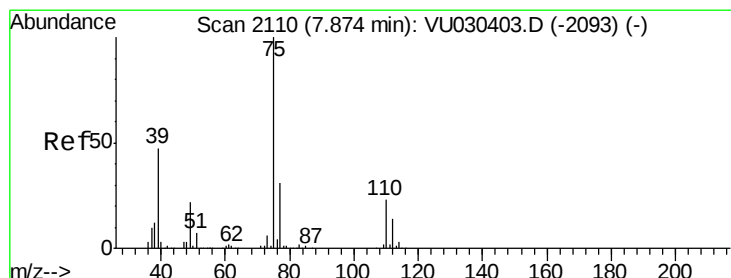
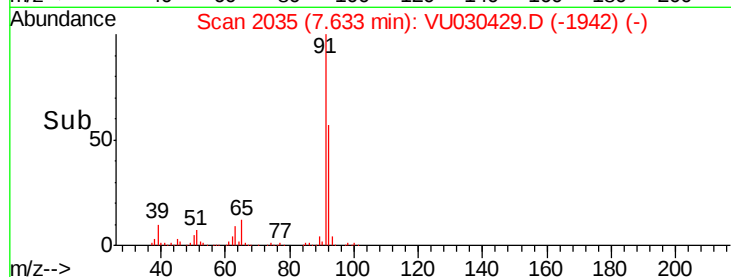
200000

100000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#44

trans-1,3-Dichloropropene

Concen: 53.246 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU030429.D

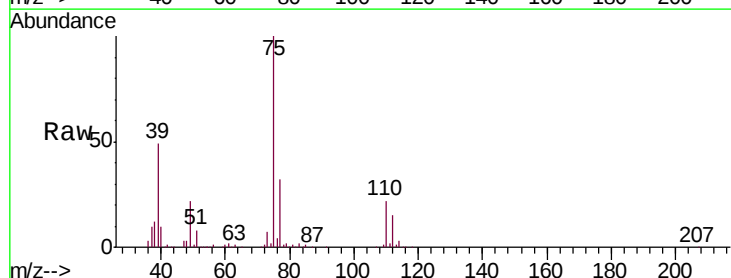
Acq: 26 Mar 2019 09:11

Tgt Ion: 75 Resp: 270784

Ion Ratio Lower Upper

75 100

77 31.8 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU030429.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU030429.D (-2093) (-)

7.87

150000

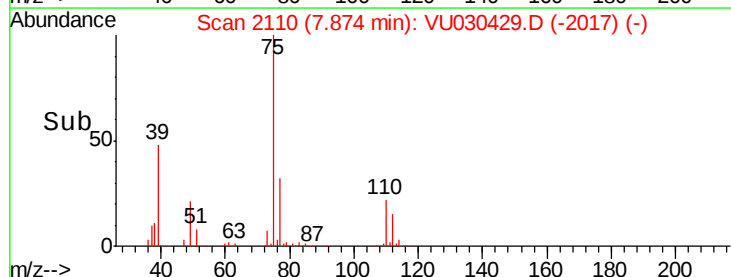
100000

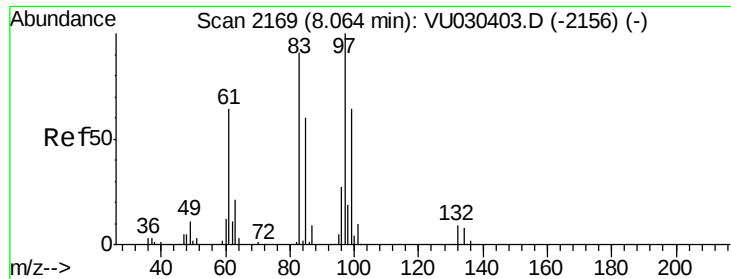
50000

0

7.80 7.90 8.00

Time-->

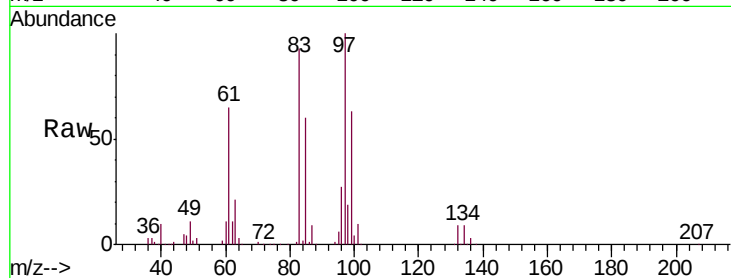




#45
 1,1,2-Trichloroethane
 Concen: 51.837 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

Tgt Ion:	97	Resp:	176120
Ion	Ratio	Lower	Upper
97	100		
99	62.9	44.0	81.8
83	93.2	65.3	121.3
85	60.1	41.8	77.6



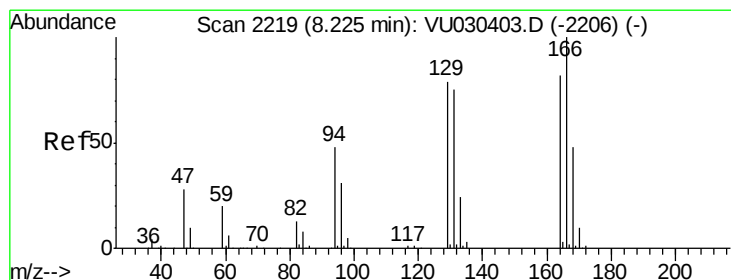
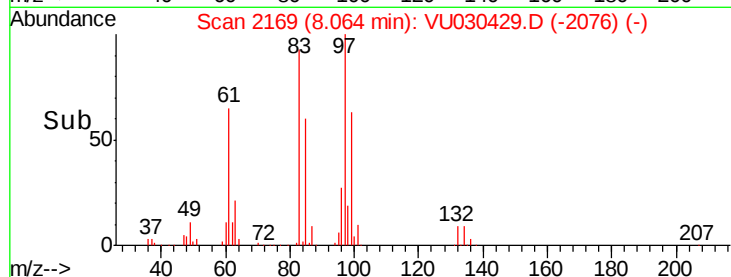
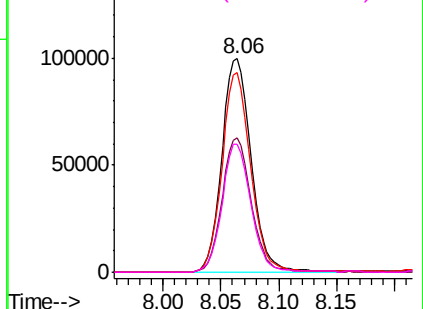
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

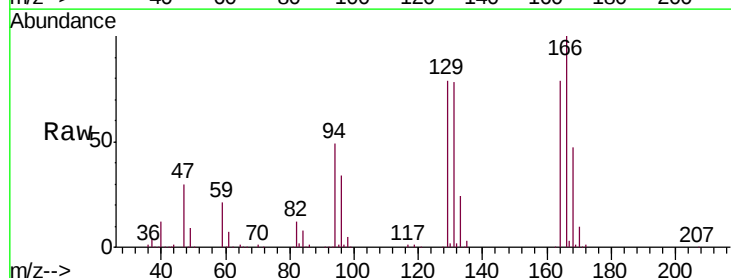
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 52.466 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

Tgt Ion:	164	Resp:	127646
Ion	Ratio	Lower	Upper
164	100		
129	100.2	68.1	126.5
131	99.4	67.7	125.7
166	126.9	92.4	171.6



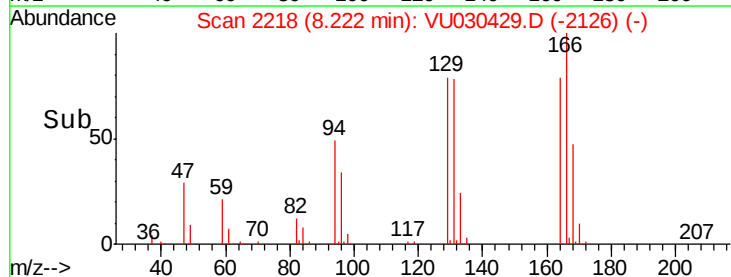
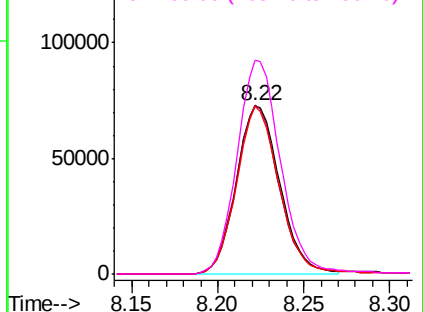
Abundance

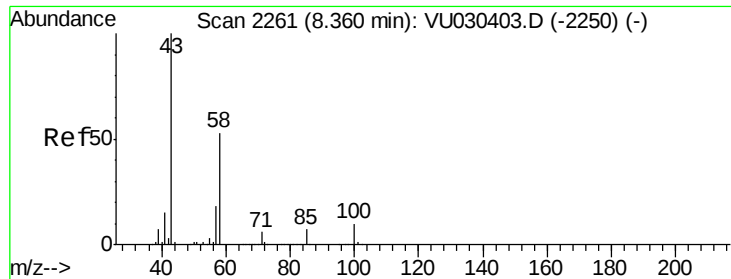
Ion 164.00 (163.70 to 164.70): V

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

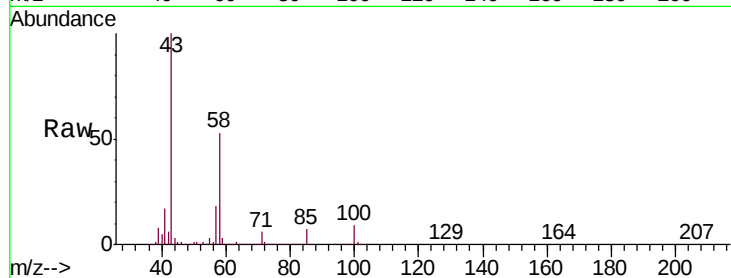




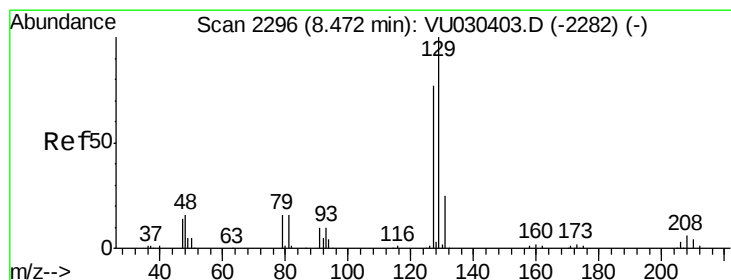
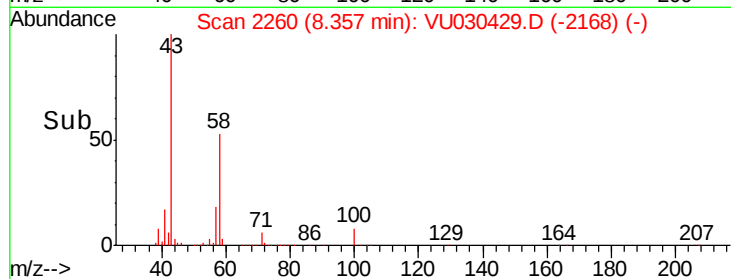
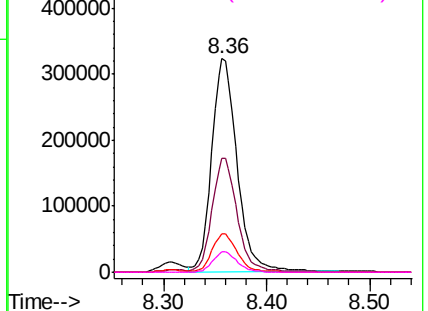
#48
2-Hexanone
Concen: 99.317 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU030429.D
Acq: 26 Mar 2019 09:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

Tgt Ion:	43	Resp:	549789
Ion	Ratio	Lower	Upper
43	100		
58	53.0	42.5	63.7
57	17.9	15.0	22.6
100	9.4	7.4	11.2

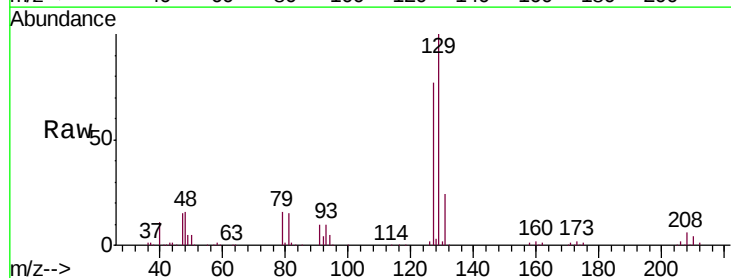


Abundance Ion 43.00 (42.70 to 43.70): VU030403.D (-2250) (-)
Ion 58.00 (57.70 to 58.70): VU030403.D (-2250) (-)
Ion 57.00 (56.70 to 57.70): VU030403.D (-2250) (-)
Ion 100.00 (99.70 to 100.70): VU030403.D (-2250) (-)

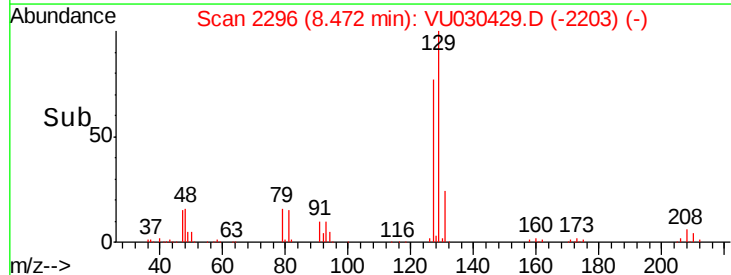
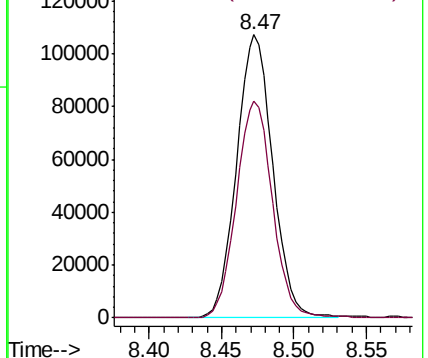


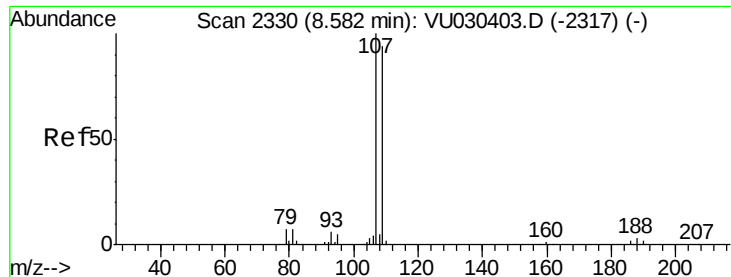
#49
Dibromochloromethane
Concen: 52.535 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030429.D
Acq: 26 Mar 2019 09:11

Tgt Ion:	129	Resp:	185465
Ion	Ratio	Lower	Upper
129	100		
127	76.7	53.2	98.8



Abundance Ion 129.00 (128.70 to 129.70): VU030403.D (-2282) (-)
Ion 127.00 (126.70 to 127.70): VU030403.D (-2282) (-)





#50

1,2-Dibromoethane

Concen: 51.462 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

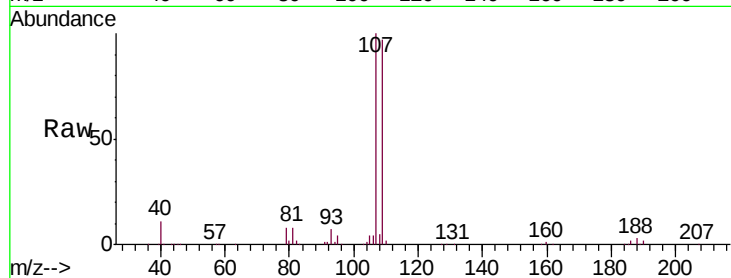
Tgt Ion:107 Resp: 187646

Ion Ratio Lower Upper

107 100

109 97.4 65.8 122.2

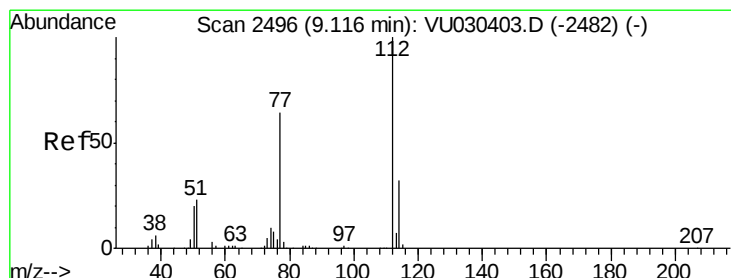
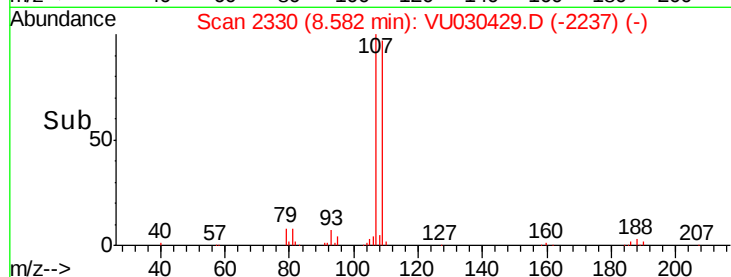
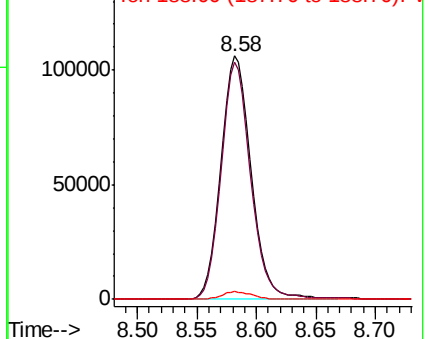
188 3.1 2.6 4.0



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: 51.215 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

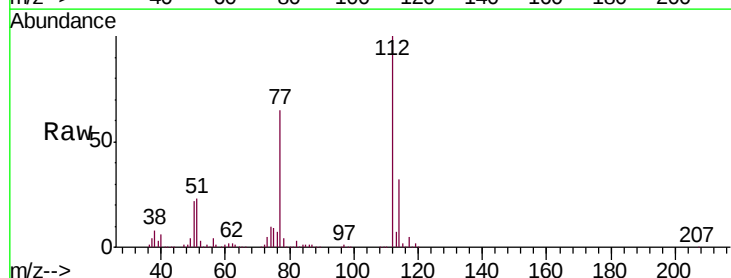
Tgt Ion:112 Resp: 456444

Ion Ratio Lower Upper

112 100

114 31.5 21.5 39.9

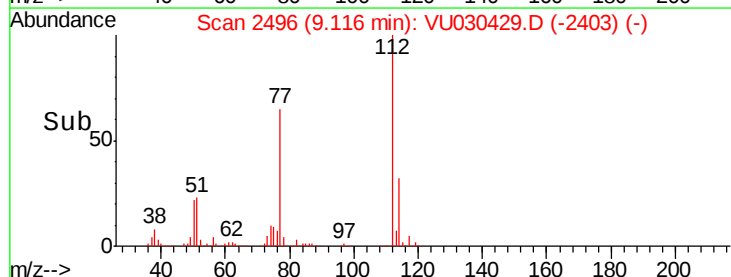
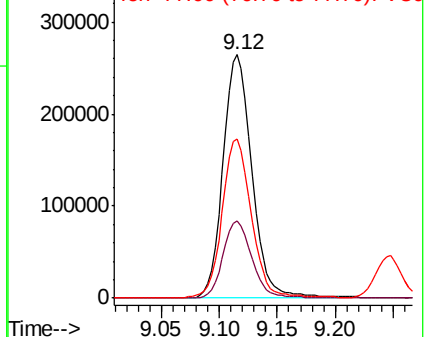
77 65.2 51.4 77.0

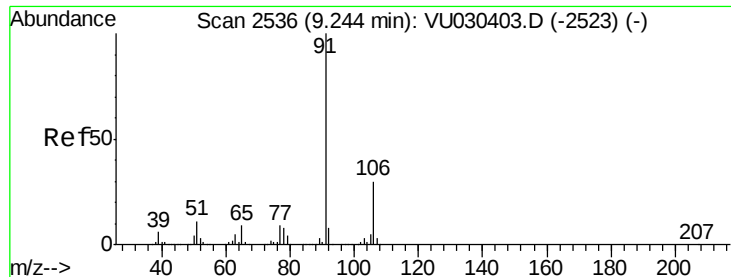


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 52.270 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

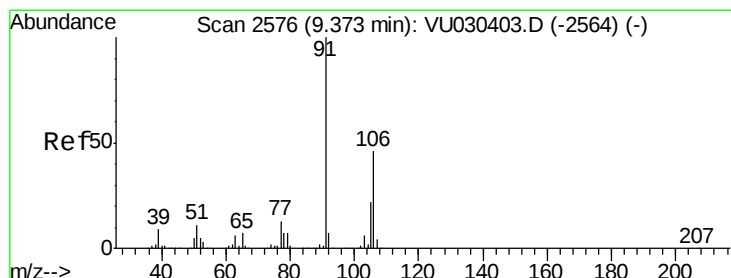
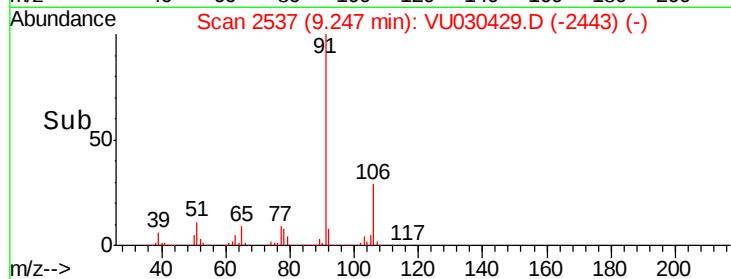
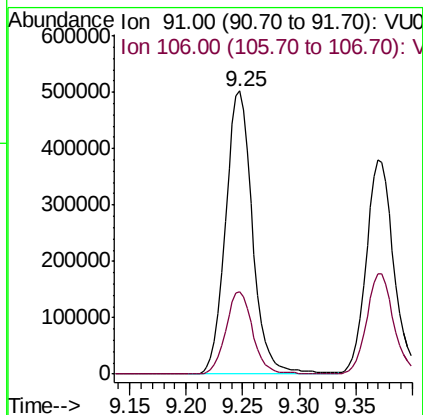
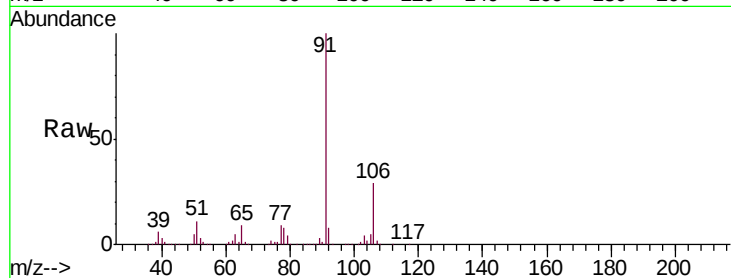
VSTD05032

Tgt Ion: 91 Resp: 832660

Ion Ratio Lower Upper

91 100

106 29.2 20.6 38.2



#53

m,p-Xylene

Concen: 51.441 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030429.D

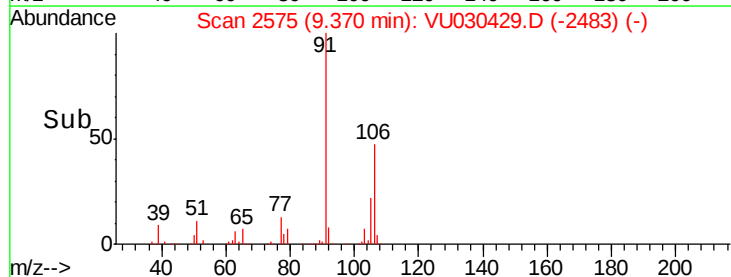
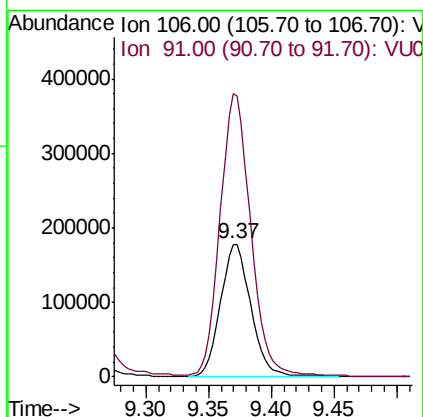
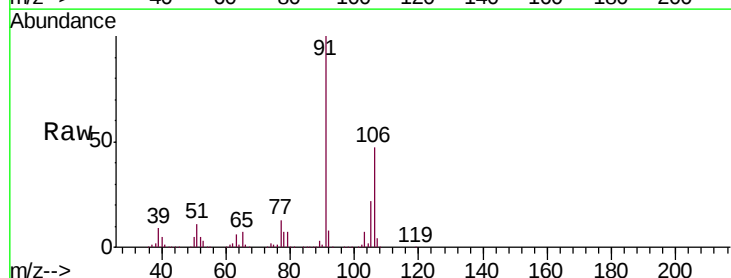
Acq: 26 Mar 2019 09:11

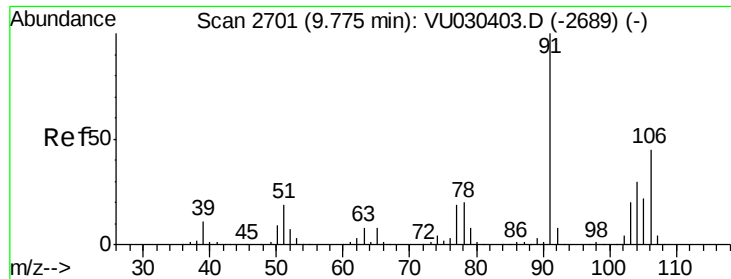
Tgt Ion: 106 Resp: 295882

Ion Ratio Lower Upper

106 100

91 213.0 151.2 280.8

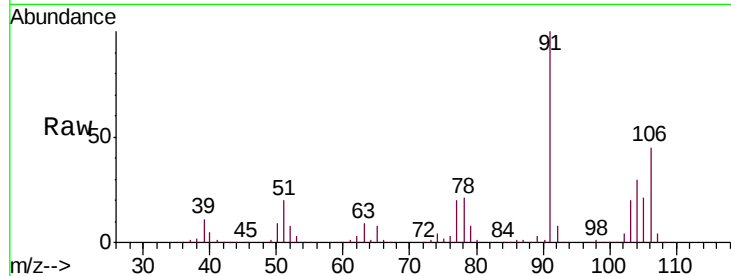




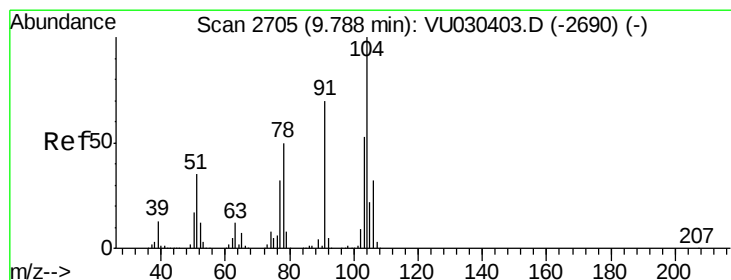
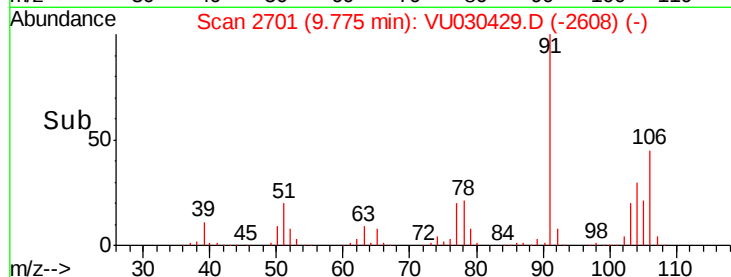
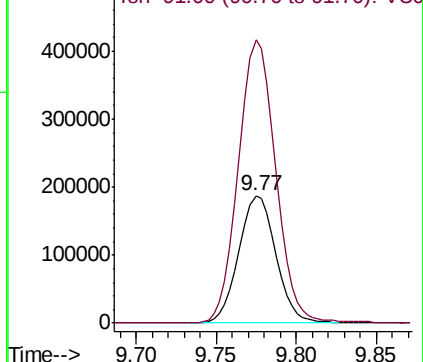
#54
o-xylene
Concen: 52.835 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU030429.D
Acq: 26 Mar 2019 09:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD05032

Tgt Ion:106 Resp: 296529
Ion Ratio Lower Upper
106 100
91 222.2 159.6 296.4

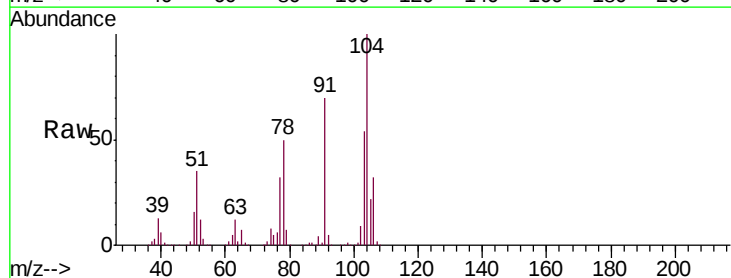


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

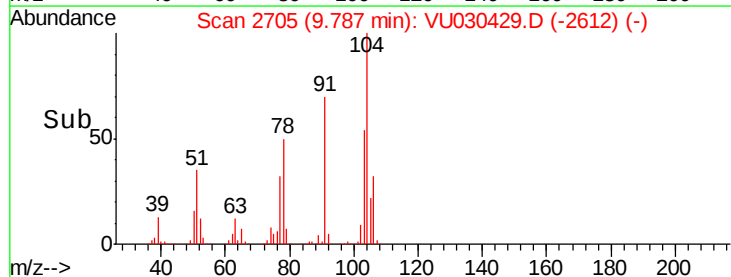
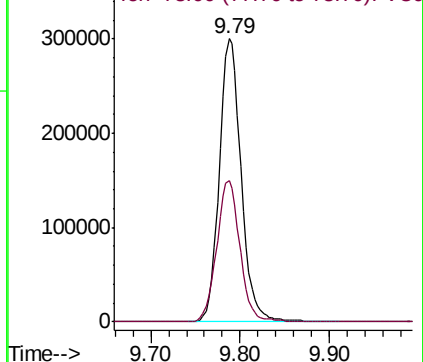


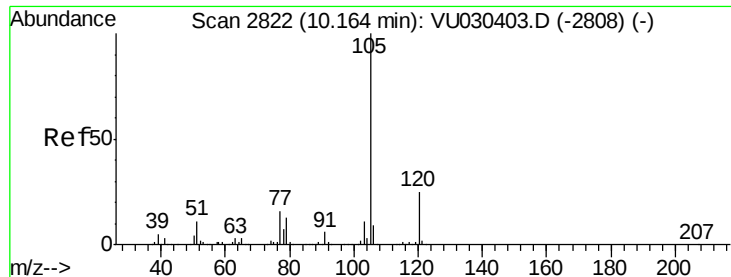
#55
Styrene
Concen: 52.739 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU030429.D
Acq: 26 Mar 2019 09:11

Tgt Ion:104 Resp: 509865
Ion Ratio Lower Upper
104 100
78 50.0 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.521 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

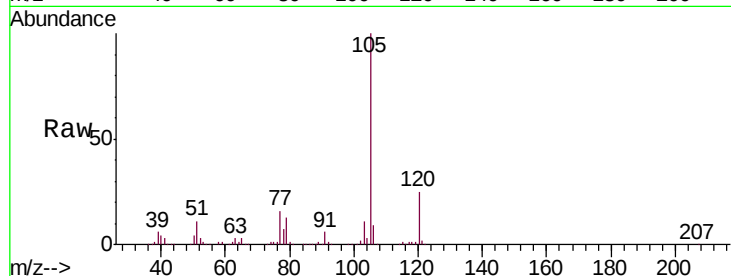
Tgt Ion: 105 Resp: 780502

Ion Ratio Lower Upper

105 100

120 25.0 20.2 30.2

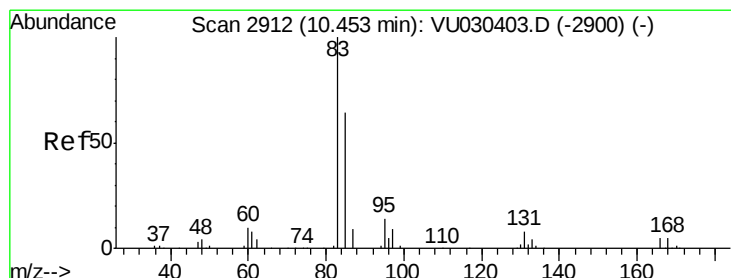
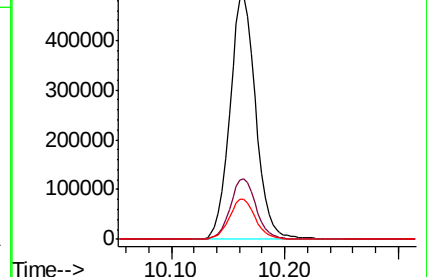
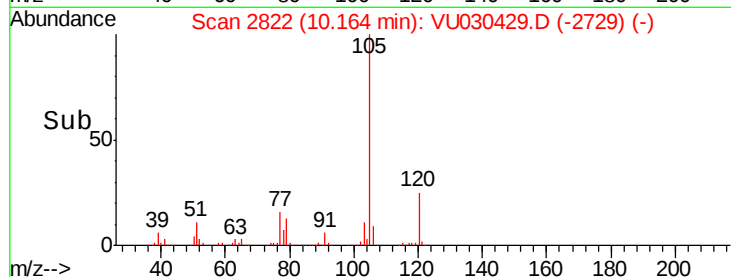
77 16.7 13.2 19.8



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: 50.567 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

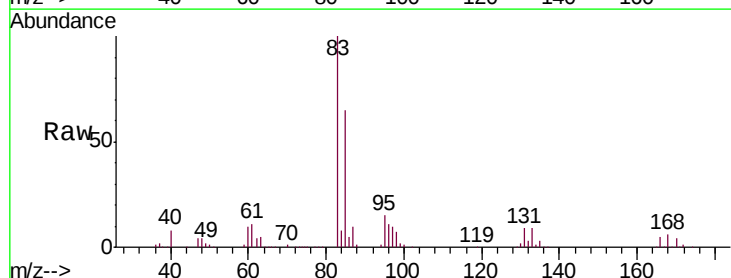
Tgt Ion: 83 Resp: 316643

Ion Ratio Lower Upper

83 100

85 64.6 44.3 82.3

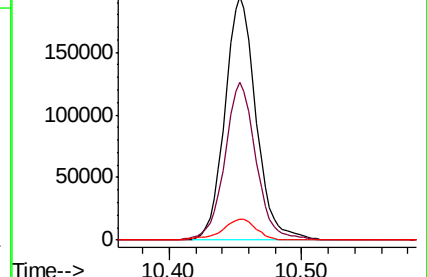
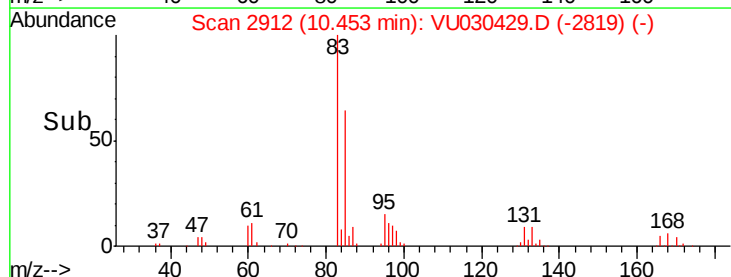
131 8.6 6.7 10.1

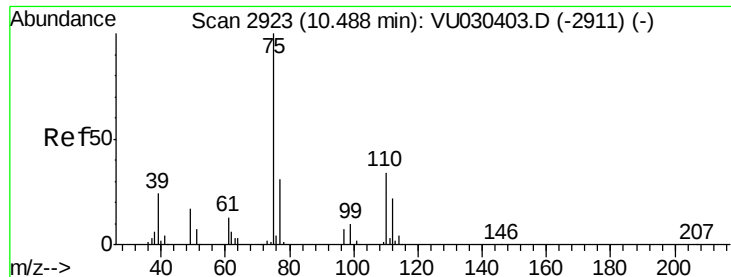


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.226 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

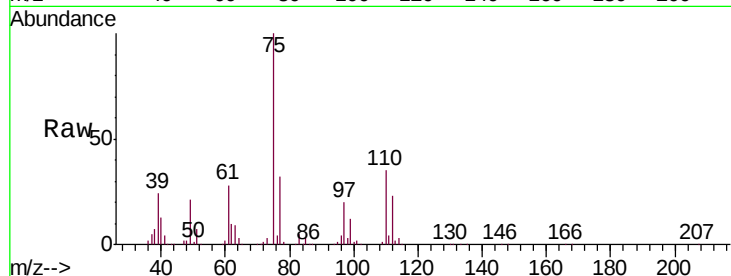
VSTD05032

Tgt Ion: 75 Resp: 245828

Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU030403.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU030403.D (-2911) (-)

10.49

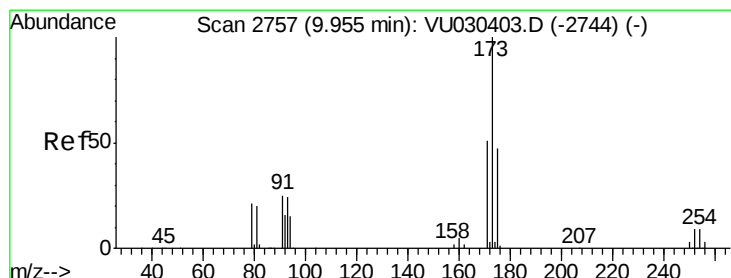
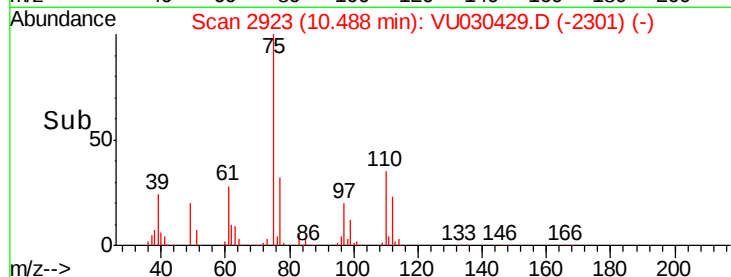
150000

100000

50000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 51.580 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

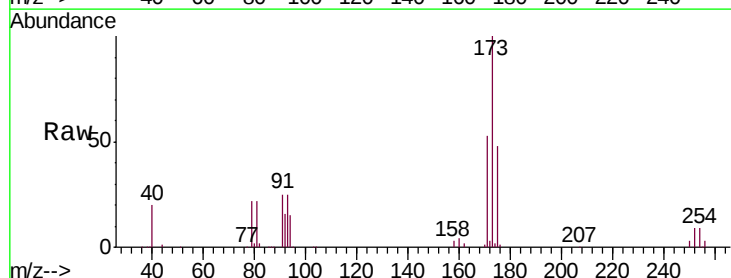
Tgt Ion: 173 Resp: 133193

Ion Ratio Lower Upper

173 100

175 48.0 38.5 57.7

254 8.6 6.8 10.2



Abundance Ion 173.00 (172.70 to 173.70): VU030403.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU030403.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU030403.D (-2744) (-)

9.95

100000

80000

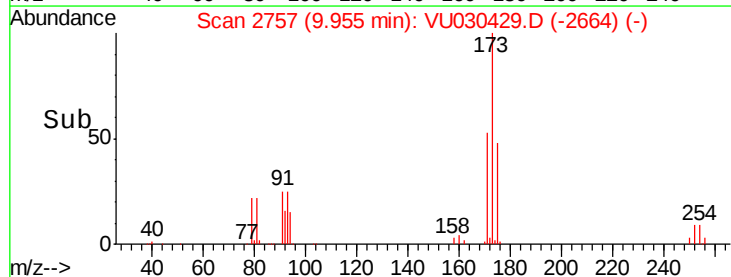
60000

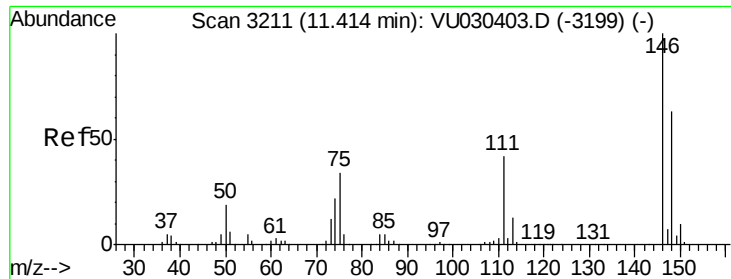
40000

20000

0

Time--> 9.90 9.95 10.00 10.05

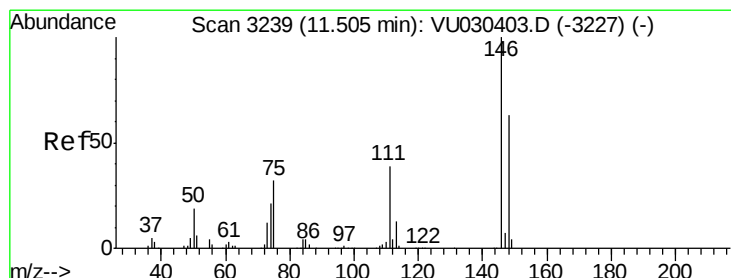
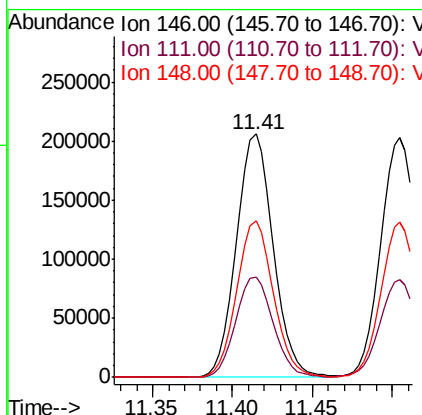
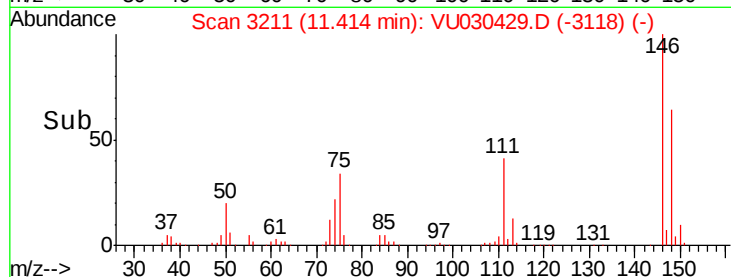
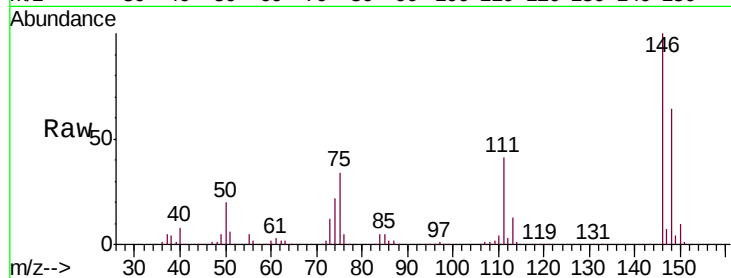




#62
 1,3-Dichlorobenzene
 Concen: 50.854 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. -0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

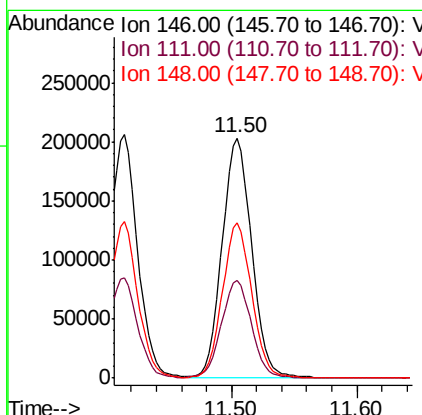
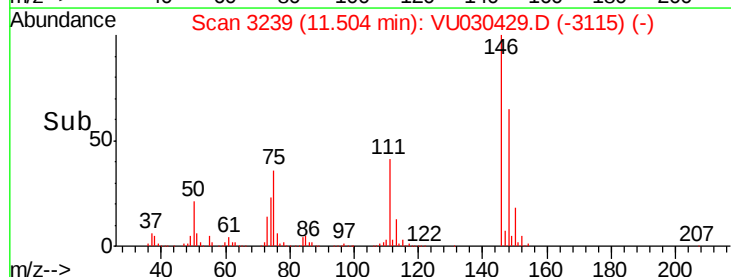
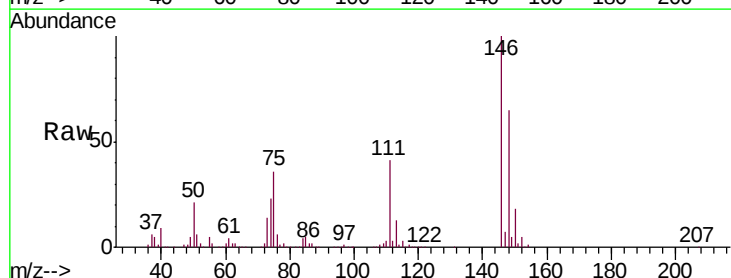
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

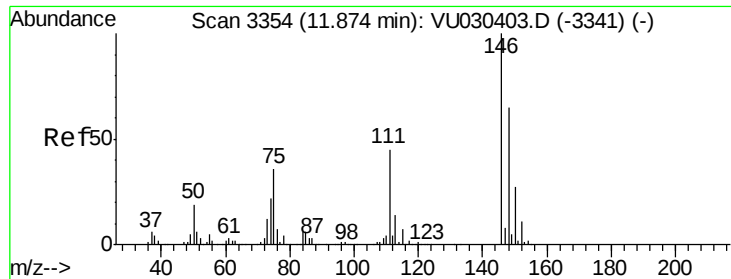
Tgt Ion:146 Resp: 322999
 Ion Ratio Lower Upper
 146 100
 111 41.2 29.2 54.2
 148 64.3 44.4 82.4



#63
 1,4-Dichlorobenzene
 Concen: 50.503 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

Tgt Ion:146 Resp: 330227
 Ion Ratio Lower Upper
 146 100
 111 41.0 28.7 53.3
 148 64.8 44.3 82.3





#65

1,2-Dichlorobenzene

Concen: 52.212 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

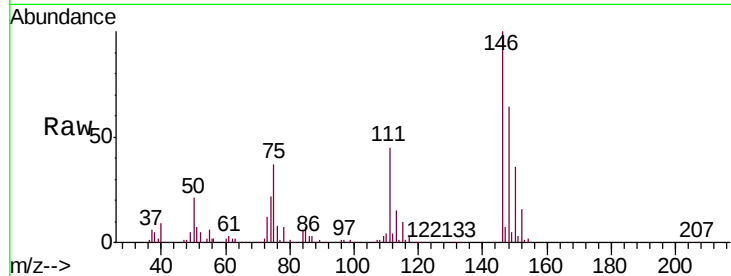
Tgt Ion:146 Resp: 335326

Ion Ratio Lower Upper

146 100

111 44.5 34.9 52.3

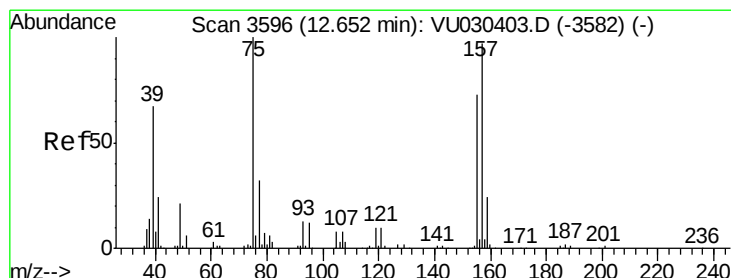
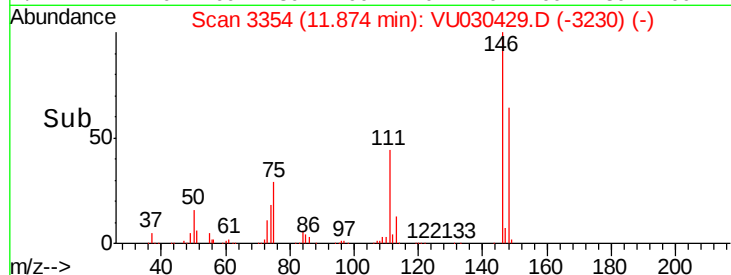
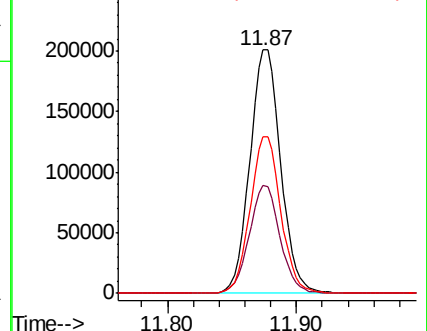
148 64.2 51.2 76.8



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



#66

1,2-Dibromo-3-chloropropane

Concen: 46.833 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

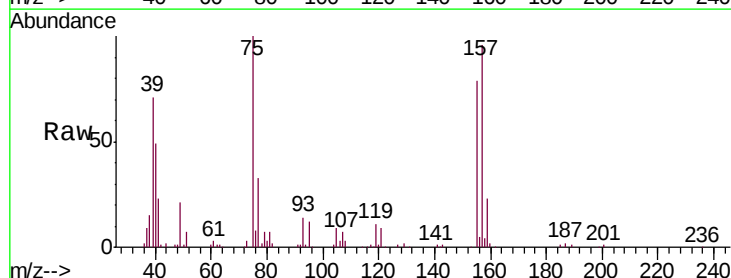
Tgt Ion: 75 Resp: 66973

Ion Ratio Lower Upper

75 100

155 78.6 61.8 92.6

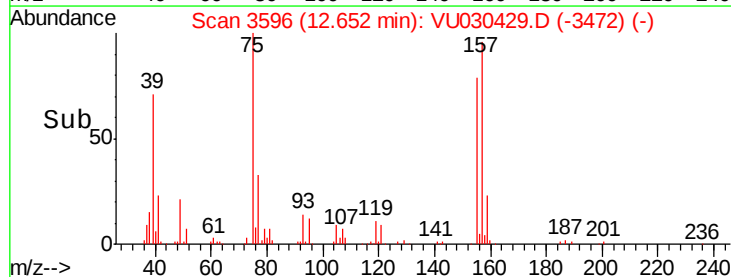
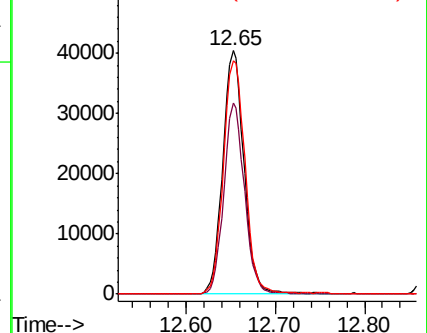
157 95.7 80.2 120.4

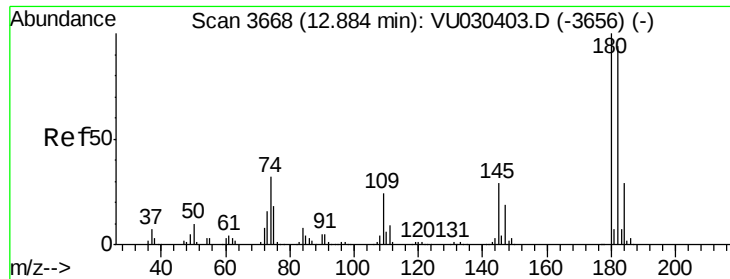


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

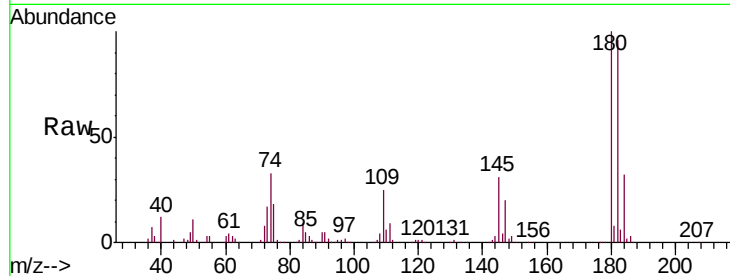




#67
 1,3,5-Trichlorobenzene
 Concen: 51.082 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05032

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	75.9	113.9
184	30.9	24.1	36.1
145	30.1	23.8	35.8



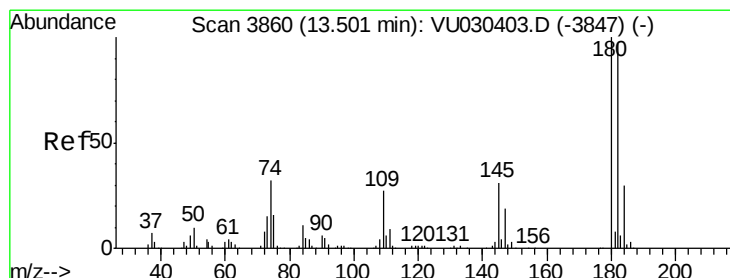
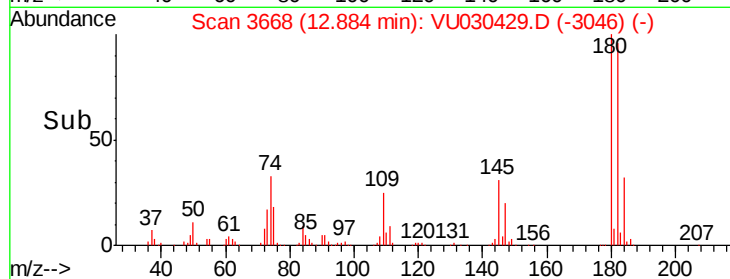
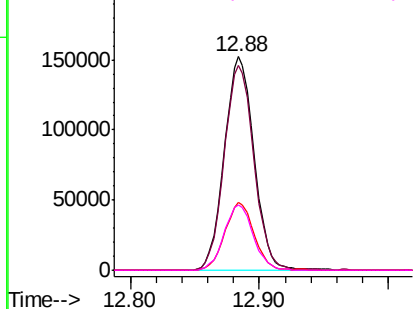
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

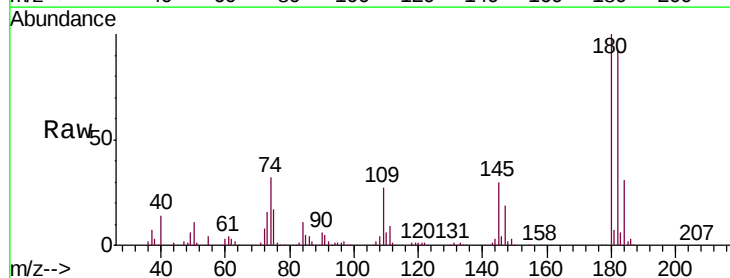
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 48.667 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030429.D
 Acq: 26 Mar 2019 09:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.6	76.1	114.1
145	30.0	24.5	36.7

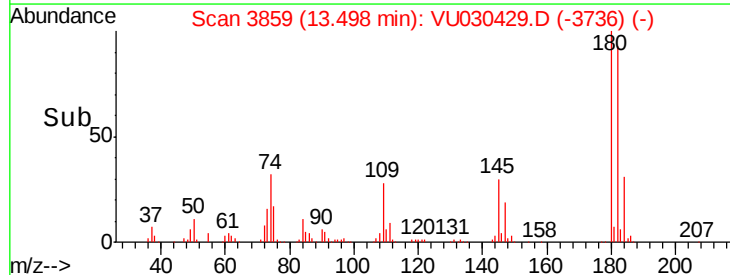
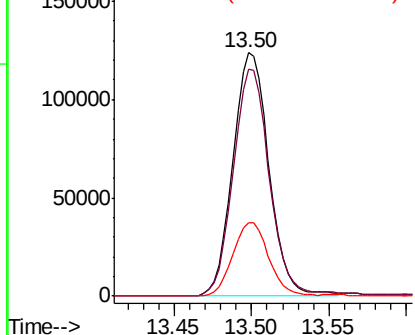


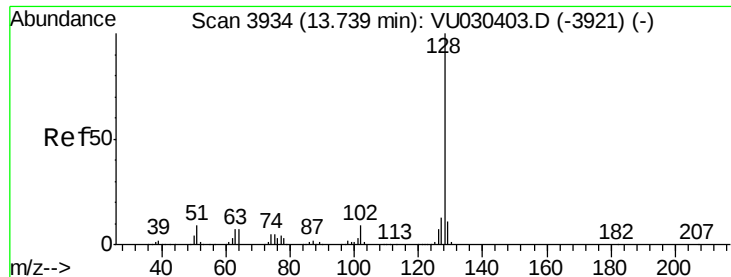
Abundance

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: 42.519 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD05032

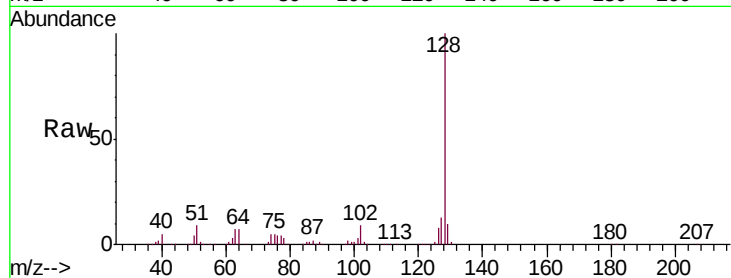
Tgt Ion:128 Resp: 624636

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

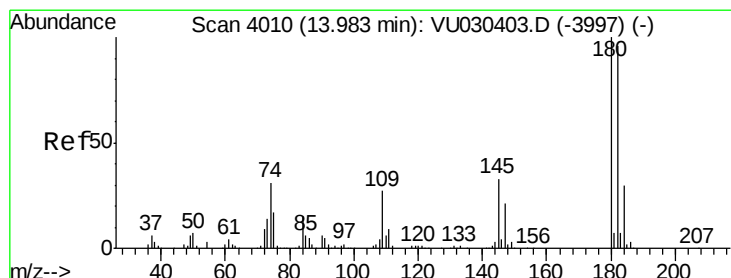
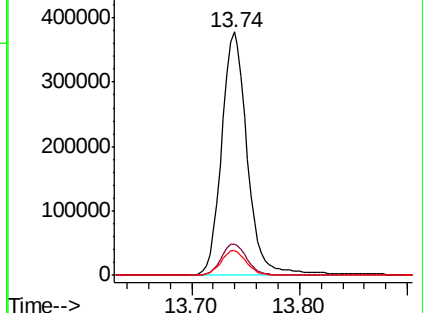
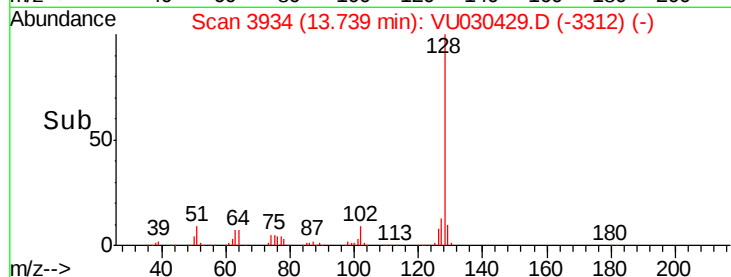
129 10.4 8.4 12.6



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: 47.732 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030429.D

Acq: 26 Mar 2019 09:11

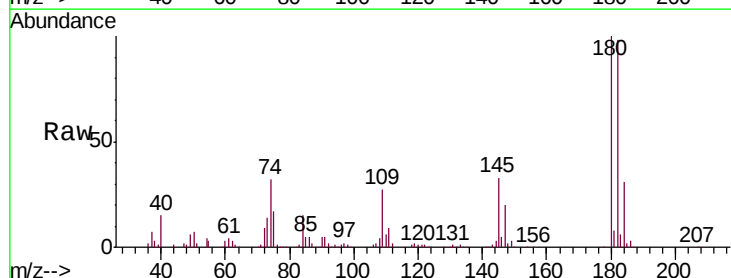
Tgt Ion:180 Resp: 208235

Ion Ratio Lower Upper

180 100

182 96.7 77.4 116.2

145 32.3 25.9 38.9



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

