

Data File : VU029543.D
Acq On : 18 Feb 2019 20:30
Operator : JC/SP
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00541

Quant Time: Feb 19 00:26:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Feb 19 00:19:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	220600	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	221514	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	124490	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	69290	4.67	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.40%
7) Chloroethane-d5	1.68	69	59979	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.60%
11) 1,1-Dichloroethene-d2	2.27	63	156255	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.00%
20) 2-Butanone-d5	4.19	46	157100	50.98	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.96%
24) Chloroform-d	4.65	84	125697	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.60%
26) 1,2-Dichloroethane-d4	5.31	65	63413	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
32) Benzene-d6	5.34	84	253239	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
36) 1,2-Dichloropropane-d6	6.33	67	76035	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.60%
41) Toluene-d8	7.56	98	258092	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
43) trans-1,3-Dichloropropene-	7.85	79	31433	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.31	63	164430	50.80	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.60%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	69960	5.12	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.40%
64) 1,2-Dichlorobenzene-d4	11.86	152	115056	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	93443	4.837 ug/L	99
3) Chloromethane	1.33	50	77383	4.245 ug/L	99
5) Vinyl chloride	1.40	62	123109	5.795 ug/L	85
6) Bromomethane	1.63	94	34870	2.814 ug/L	100
8) Chloroethane	1.70	64	68113	4.924 ug/L	94
9) Trichlorofluoromethane	1.88	101	164180	5.049 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	98349	5.131 ug/L	98
12) 1,1-Dichloroethene	2.28	96	95319	5.250 ug/L	94
13) Acetone	2.32	43	144439	51.593 ug/L	97
14) Carbon disulfide	2.48	76	309392	5.172 ug/L	99
15) Methyl Acetate	2.62	43	40872	5.699 ug/L	97
16) Methylene chloride	2.70	84	107420	5.265 ug/L	96
17) Methyl tert-butyl Ether	3.00	73	244608	5.381 ug/L	97
18) trans-1,2-Dichloroethene	2.98	96	106498	5.502 ug/L	96
19) 1,1-Dichloroethane	3.44	63	152161	5.217 ug/L	97
21) 2-Butanone	4.28	43	192617	55.680 ug/L	97
22) cis-1,2-Dichloroethene	4.22	96	161194	9.052 ug/L	95

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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	41298	5.137	ug/L	94
25) Chloroform	4.67	83	147335	5.049	ug/L	97
27) 1,2-Dichloroethane	5.40	62	93641	5.546	ug/L	97
29) 1,1,1-Trichloroethane	4.91	97	129817	4.738	ug/L	98
30) Cyclohexane	4.99	56	126201	4.807	ug/L	99
31) Carbon tetrachloride	5.13	117	116363	4.700	ug/L	99
33) Benzene	5.39	78	323564	4.963	ug/L	100
34) Trichloroethene	6.18	95	89652	4.890	ug/L	98
35) Methylcyclohexane	6.41	83	146985	4.766	ug/L	99
37) 1,2-Dichloropropane	6.43	63	82893	5.076	ug/L	98
38) Bromodichloromethane	6.76	83	105420	4.885	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	121610	4.731	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	500009	53.115	ug/L	99
42) Toluene	7.63	91	374562	5.118	ug/L	97
44) trans-1,3-Dichloropropene	7.88	75	99673	4.722	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	65019	5.197	ug/L	97
47) Tetrachloroethene	8.22	164	83156	4.952	ug/L	98
48) 2-Hexanone	8.36	43	361852	52.740	ug/L	100
49) Dibromochloromethane	8.47	129	80992	4.804	ug/L	98
50) 1,2-Dibromoethane	8.59	107	63400	5.121	ug/L #	98
51) Chlorobenzene	9.12	112	255798	5.083	ug/L	97
52) Ethylbenzene	9.25	91	429094	5.178	ug/L	100
53) m,p-xylene	9.37	106	170589	5.162	ug/L	100
54) o-xylene	9.78	106	166789	5.142	ug/L	99
55) Styrene	9.79	104	280001	5.200	ug/L	99
56) Isopropylbenzene	10.16	105	440390	5.148	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	83672	5.481	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	55669	5.314	ug/L	98
61) Bromoform	9.95	173	47896	4.545	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	220156	4.992	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	220704	5.011	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	209557	5.043	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	12503	4.809	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	177755	4.858	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	154065	4.999	ug/L	99
69) Naphthalene	13.74	128	258723	4.861	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	142388	4.832	ug/L	98

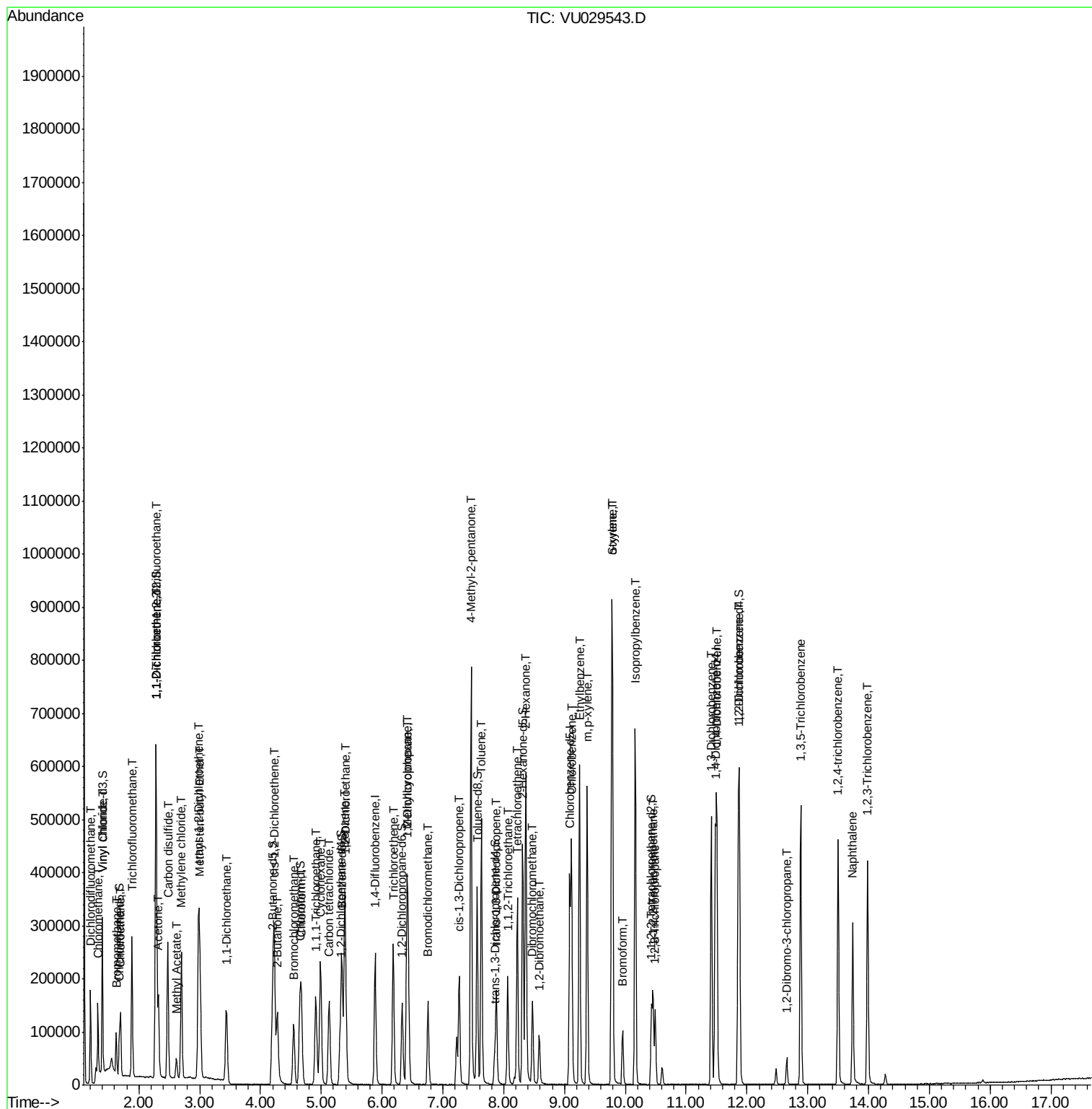
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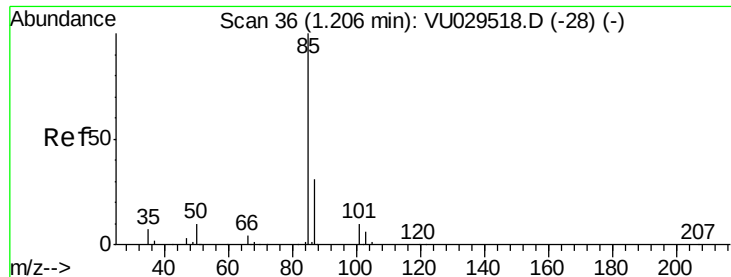
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#2

Dichlorodifluoromethane

Concen: 4.837 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

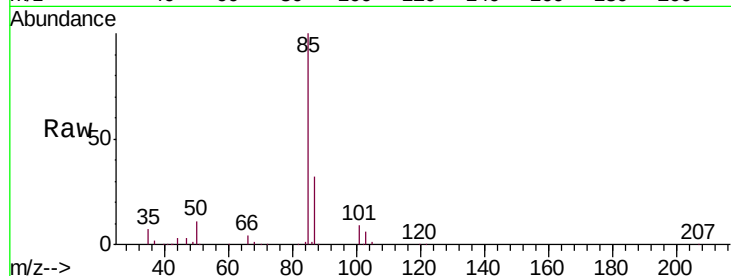
VSTD00541

Tgt Ion: 85 Resp: 93443

Ion Ratio Lower Upper

85 100

87 32.3 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU029518.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU029518.D (-28) (-)

1.21

100000

80000

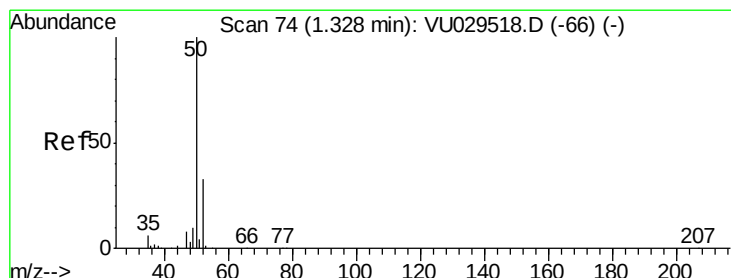
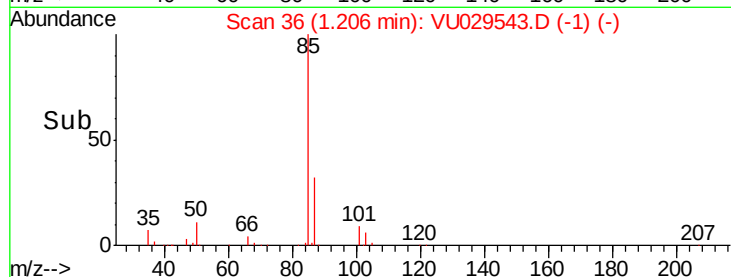
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 4.245 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029543.D

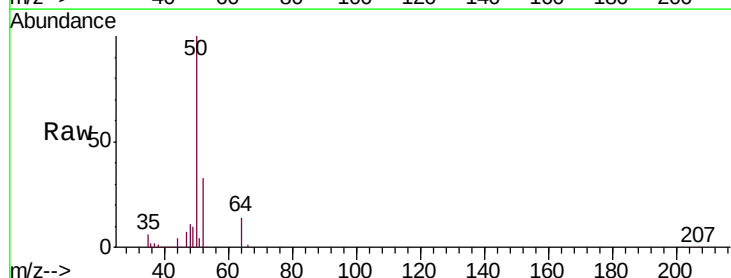
Acq: 18 Feb 2019 20:30

Tgt Ion: 50 Resp: 77383

Ion Ratio Lower Upper

50 100

52 32.6 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU029518.D (-66) (-)

Ion 52.05 (51.75 to 52.75): VU029518.D (-66) (-)

1.33

80000

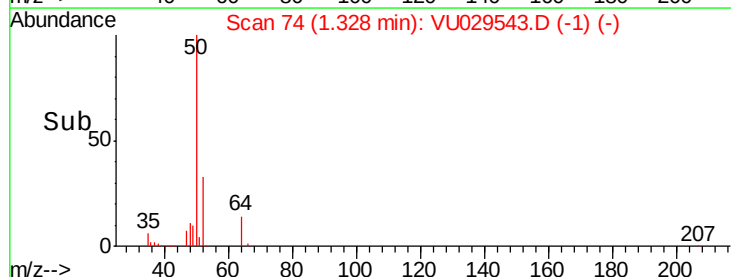
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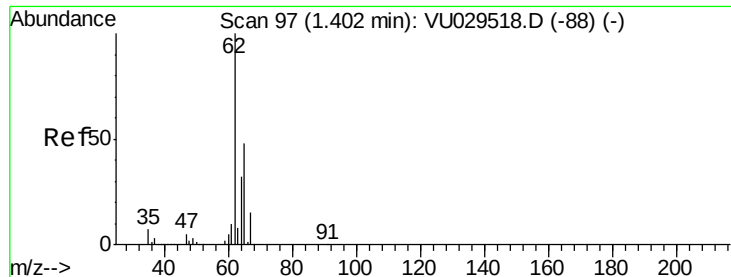
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 5.795 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

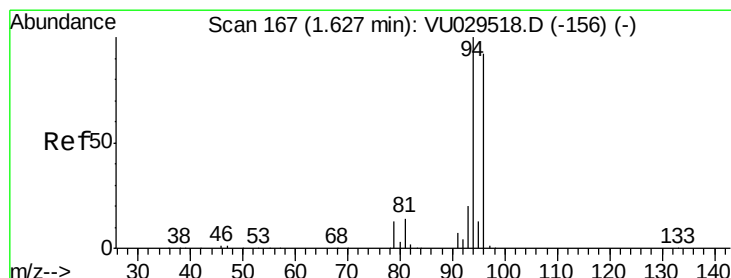
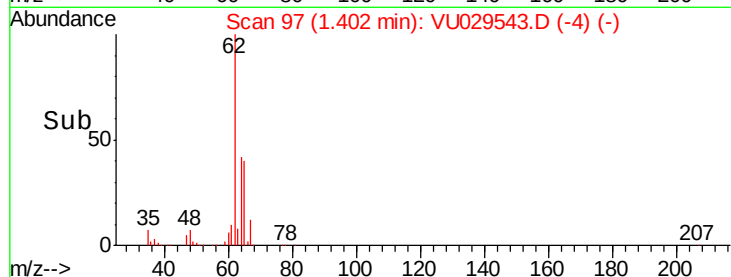
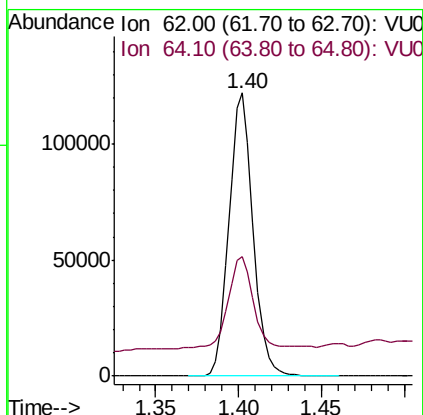
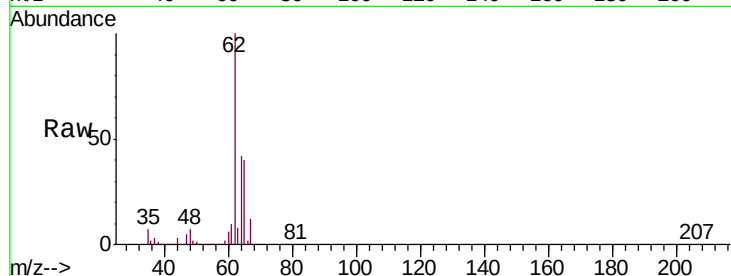
VSTD00541

Tgt Ion: 62 Resp: 123109

Ion Ratio Lower Upper

62 100

64 42.2 23.5 43.7



#6

Bromomethane

Concen: 2.814 ug/L

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU029543.D

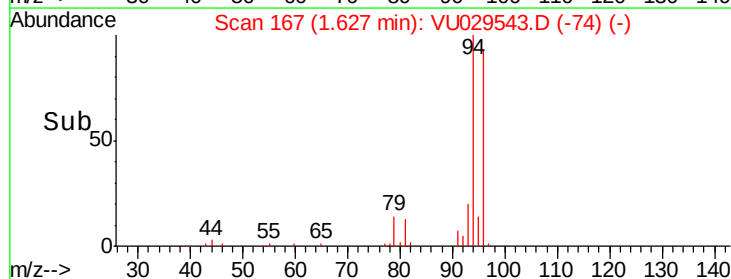
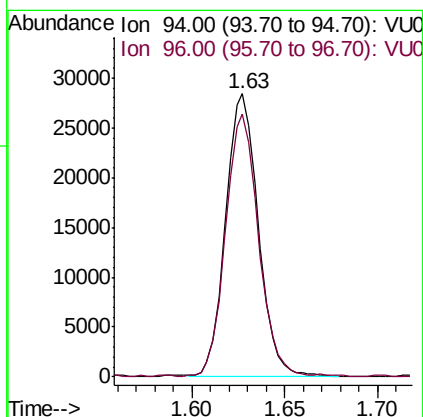
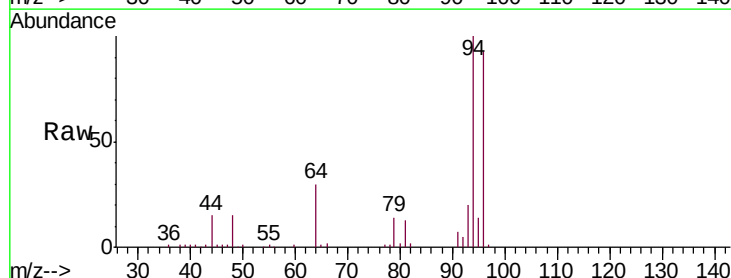
Acq: 18 Feb 2019 20:30

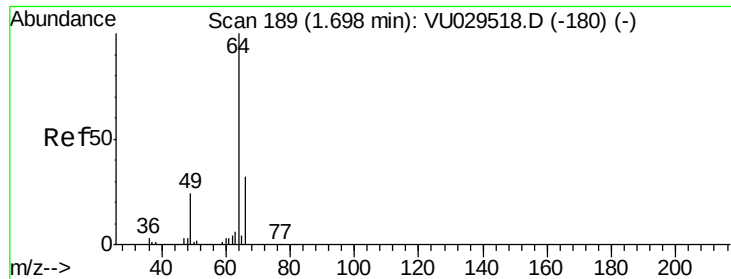
Tgt Ion: 94 Resp: 34870

Ion Ratio Lower Upper

94 100

96 93.0 65.2 121.0

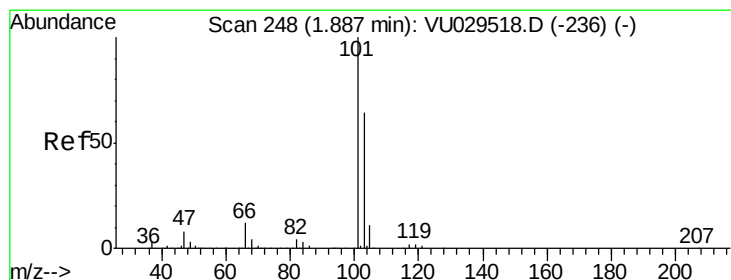
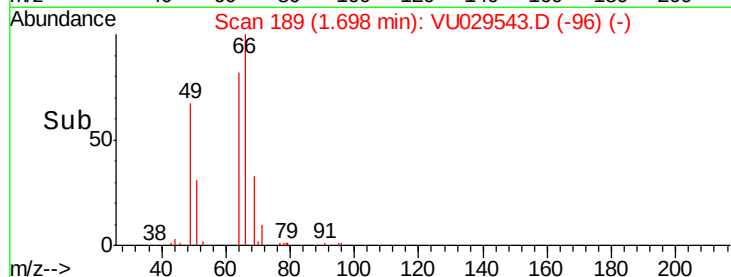
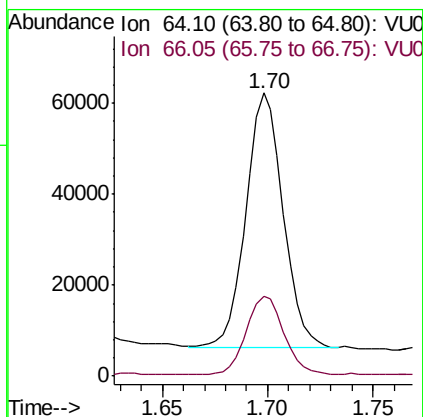
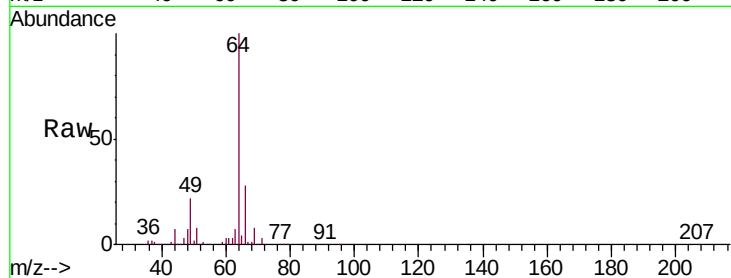




#8
Chloroethane
Concen: 4.924 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU029543.D
Acq: 18 Feb 2019 20:30

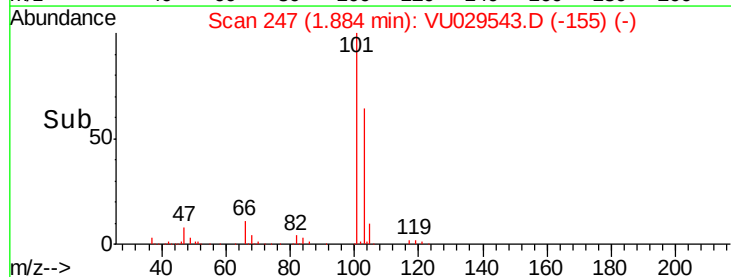
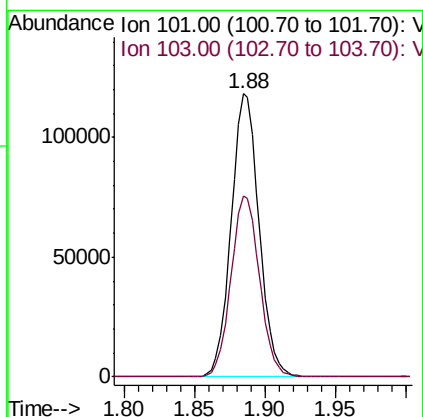
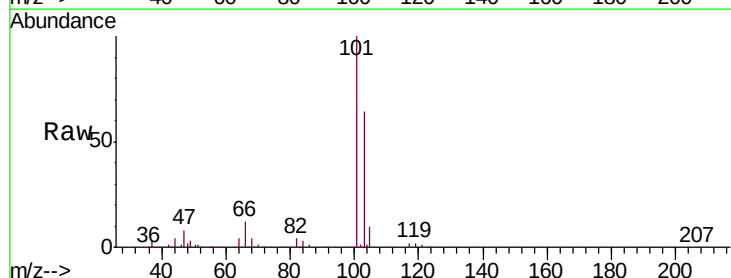
Instrument :
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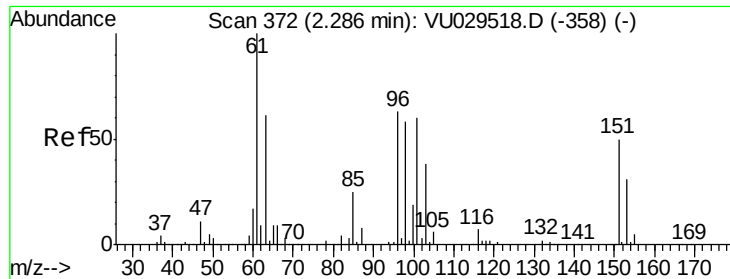
Tgt Ion: 64 Resp: 68113
Ion Ratio Lower Upper
64 100
66 28.3 22.0 40.8



#9
Trichlorofluoromethane
Concen: 5.049 ug/L
RT: 1.88 min Scan# 247
Delta R.T. -0.00 min
Lab File: VU029543.D
Acq: 18 Feb 2019 20:30

Tgt Ion: 101 Resp: 164180
Ion Ratio Lower Upper
101 100
103 65.3 52.1 78.1





#10

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

Concen: 5.131 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00541

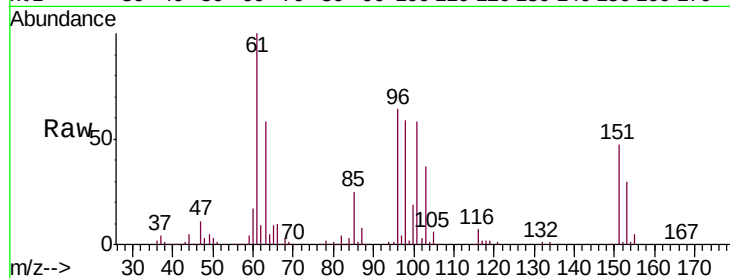
Tgt Ion:101 Resp: 98349

Ion Ratio Lower Upper

101 100

85 43.5 35.1 52.7

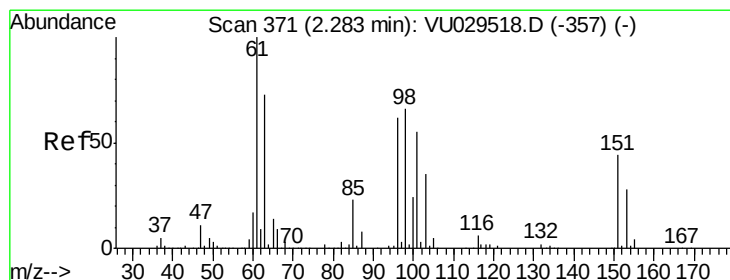
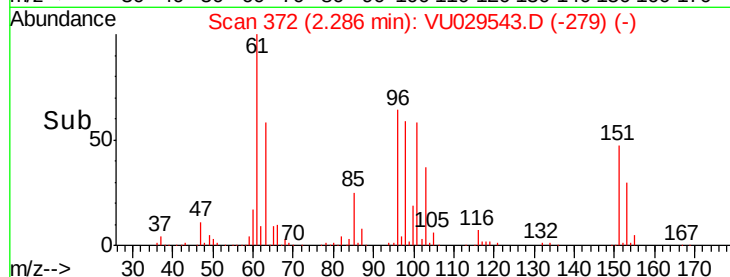
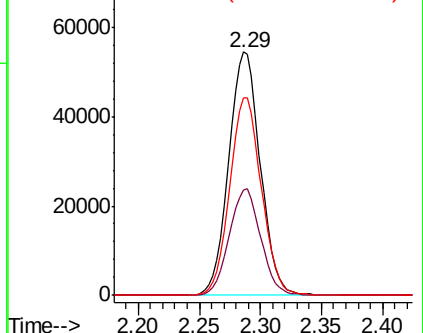
151 81.5 67.0 100.6



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: 5.250 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

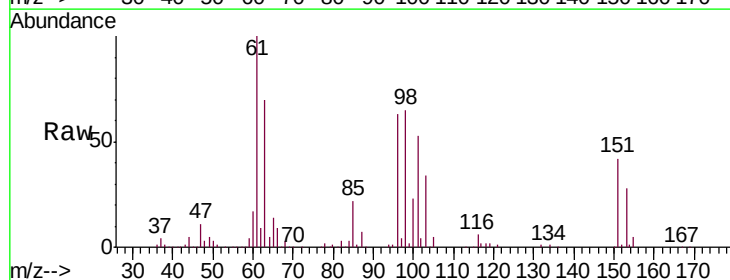
Tgt Ion: 96 Resp: 95319

Ion Ratio Lower Upper

96 100

61 158.3 115.1 213.7

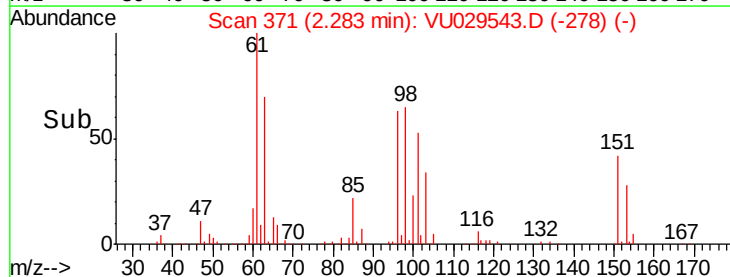
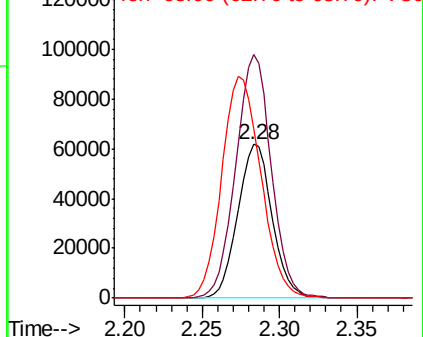
63 110.3 83.5 155.1

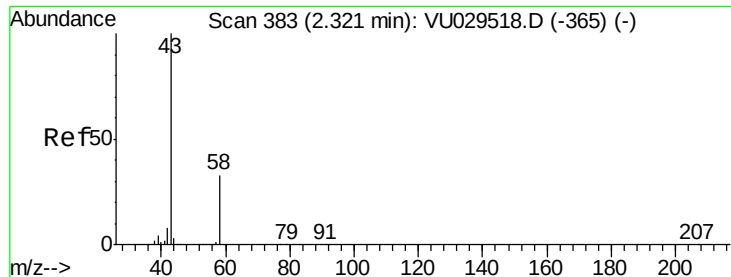


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.593 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

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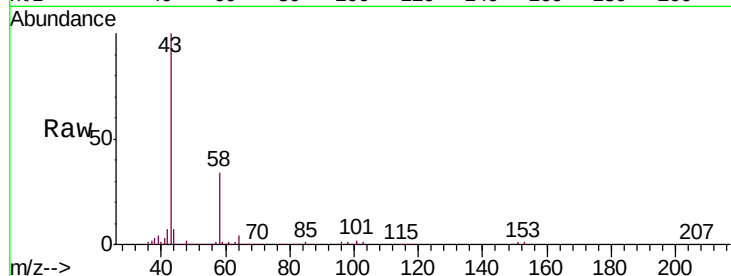
VSTD00541

Tgt Ion: 43 Resp: 144439

Ion Ratio Lower Upper

43 100

58 34.2 0.0 65.0



Abundance Ion 43.05 (42.75 to 43.75): VU029518.D (-365) (-)

Ion 58.05 (57.75 to 58.75): VU029518.D (-365) (-)

2.32

100000

80000

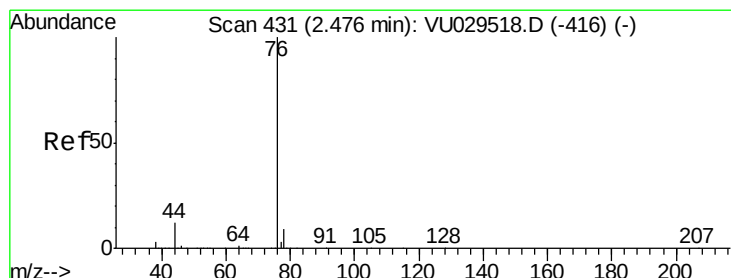
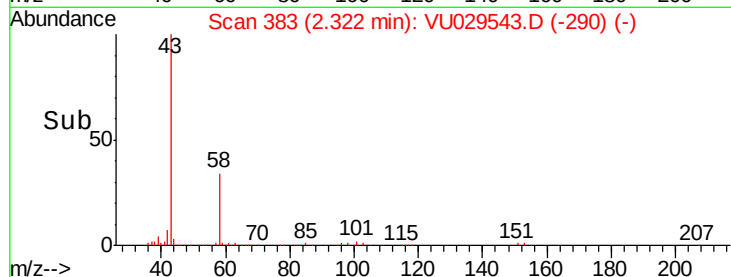
60000

40000

20000

0

Time--> 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 5.172 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029543.D

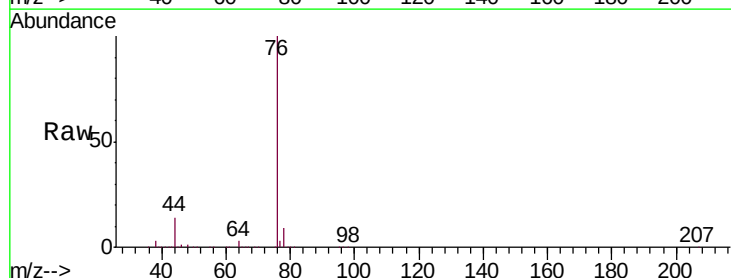
Acq: 18 Feb 2019 20:30

Tgt Ion: 76 Resp: 309392

Ion Ratio Lower Upper

76 100

78 9.0 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU029518.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU029518.D (-416) (-)

2.48

200000

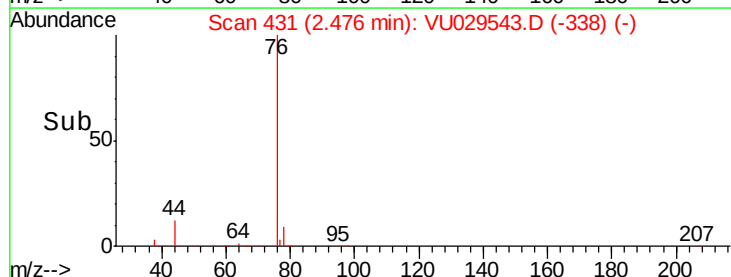
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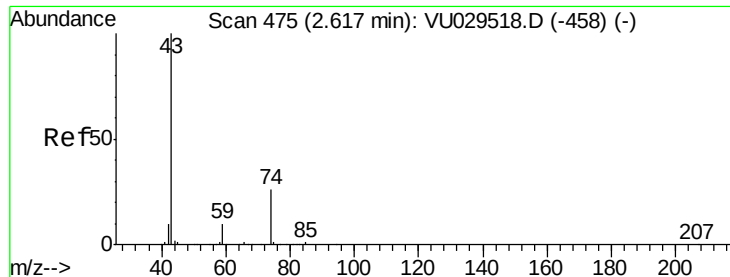
100000

50000

0

Time--> 2.40 2.45 2.50 2.55

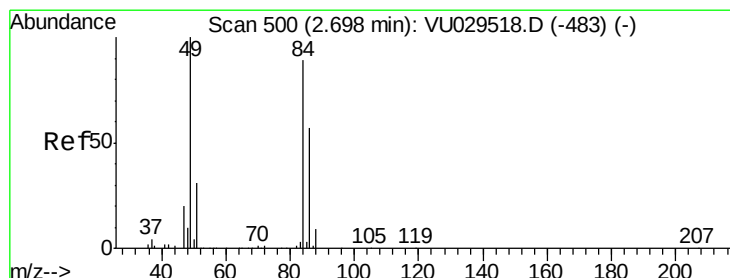
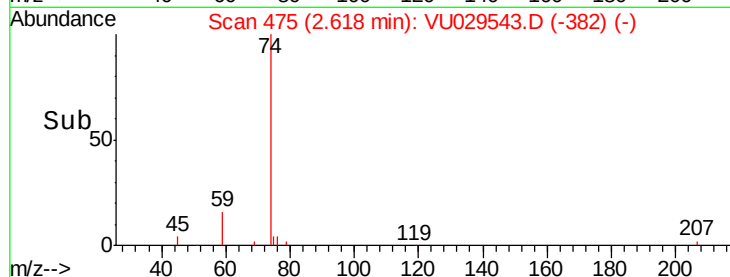
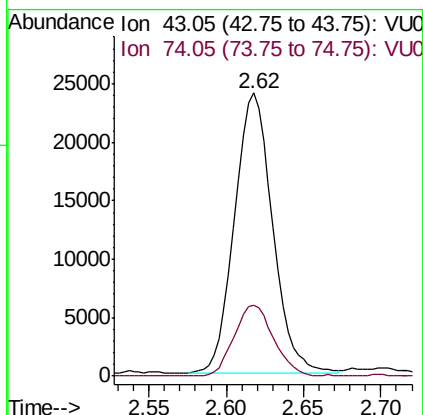
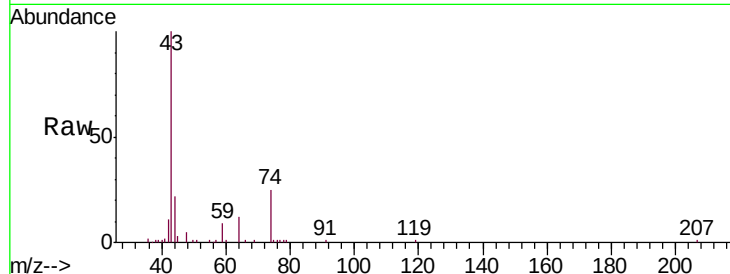




#15
Methyl Acetate
Concen: 5.699 ug/L
RT: 2.62 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU029543.D
Acq: 18 Feb 2019 20:30

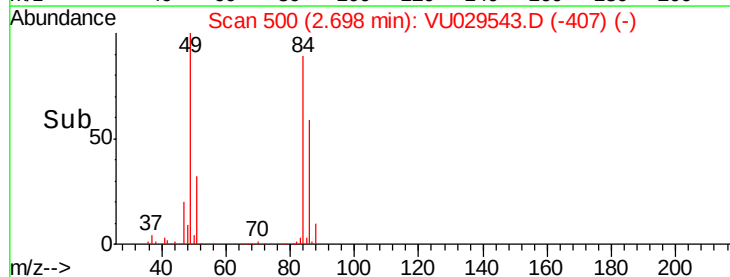
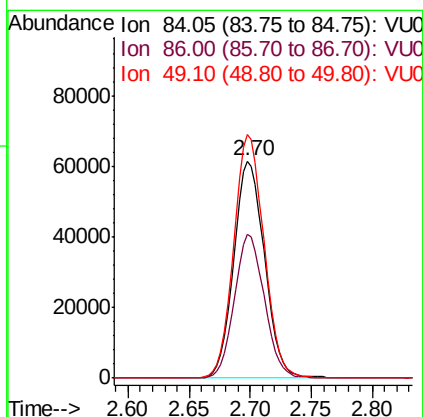
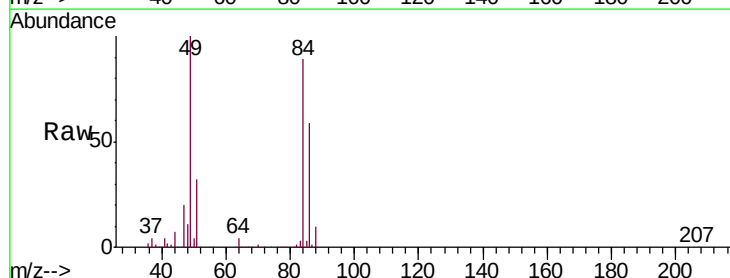
Instrument :
MSVOA_U
ClientSampled :
VSTD00541

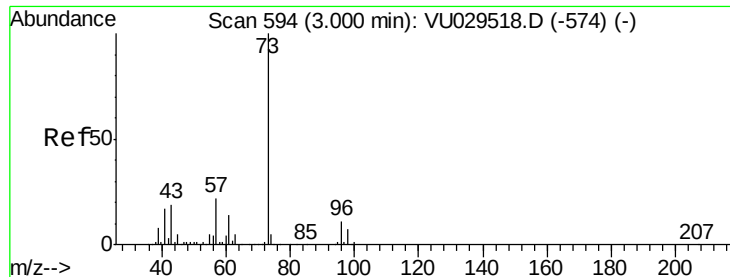
Tgt Ion: 43 Resp: 40872
Ion Ratio Lower Upper
43 100
74 26.1 22.3 33.5



#16
Methylene chloride
Concen: 5.265 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029543.D
Acq: 18 Feb 2019 20:30

Tgt Ion: 84 Resp: 107420
Ion Ratio Lower Upper
84 100
86 66.3 45.1 83.9
49 112.2 81.8 151.8





#17

Methyl tert-butyl Ether

Concen: 5.381 ug/L

RT: 3.00 min Scan# 595

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00541

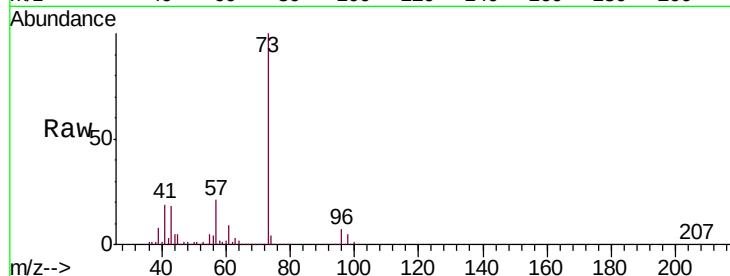
Tgt Ion: 73 Resp: 244608

Ion Ratio Lower Upper

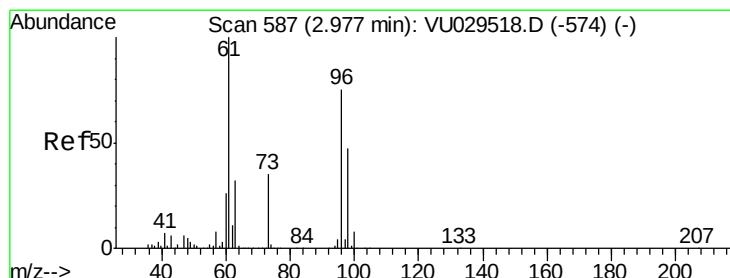
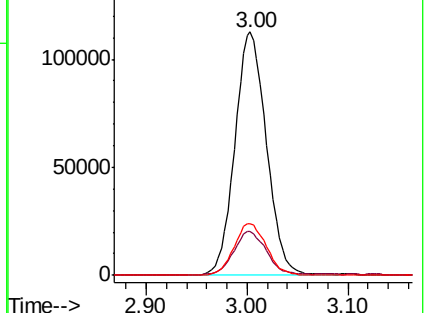
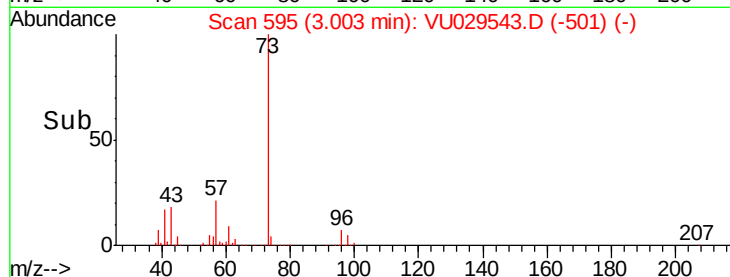
73 100

43 18.0 16.0 24.0

57 21.8 16.9 25.3



Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 5.502 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

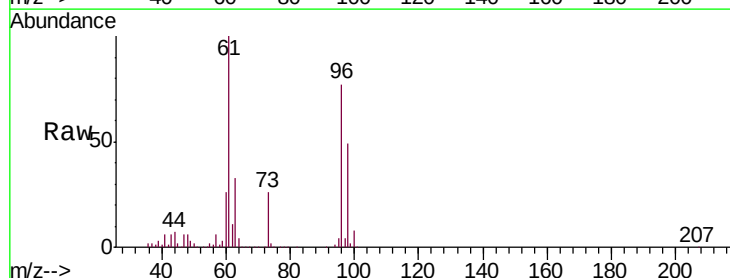
Tgt Ion: 96 Resp: 106498

Ion Ratio Lower Upper

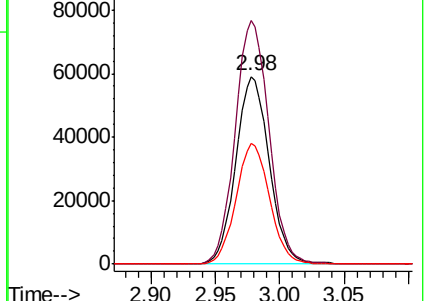
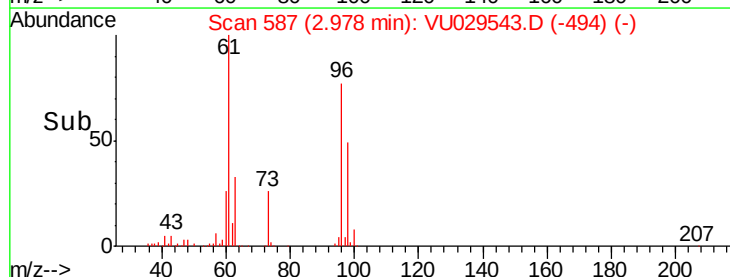
96 100

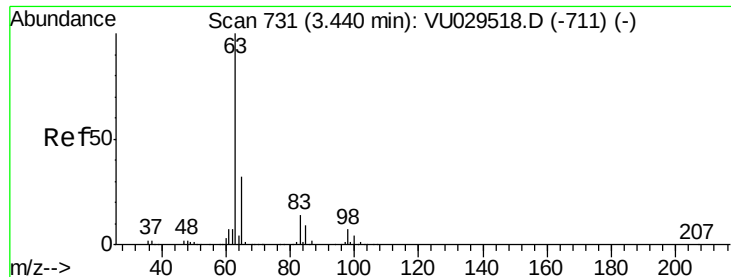
61 129.8 95.4 177.2

98 64.0 45.8 85.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

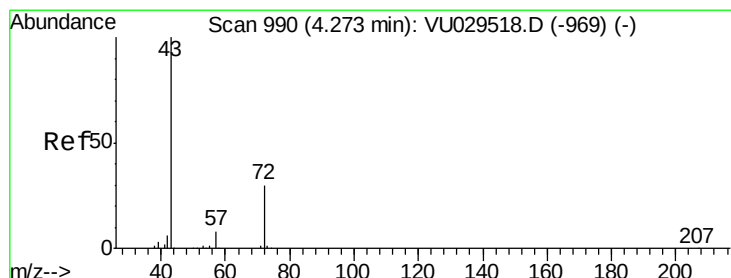
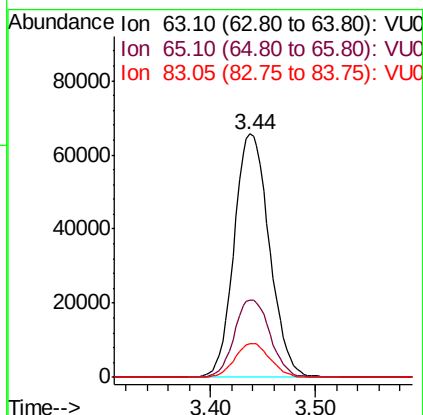
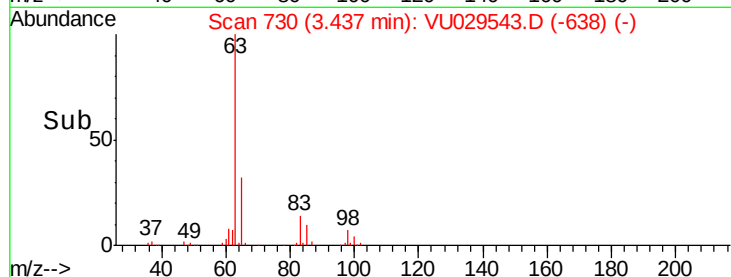
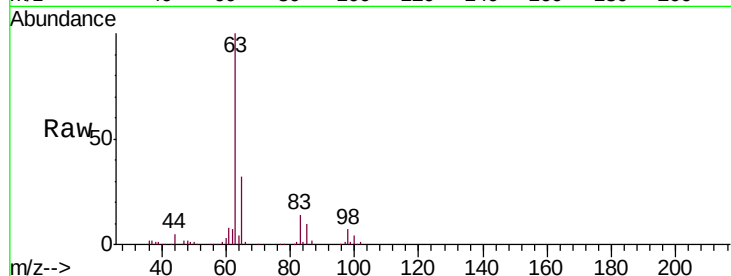




#19
 1,1-Dichloroethane
 Concen: 5.217 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

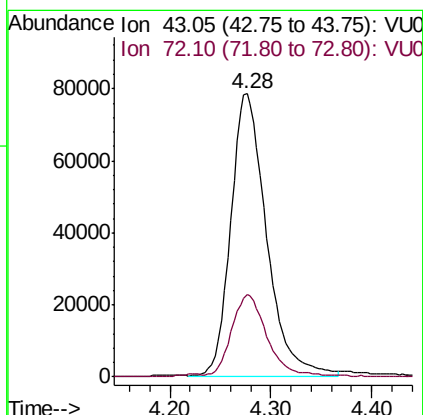
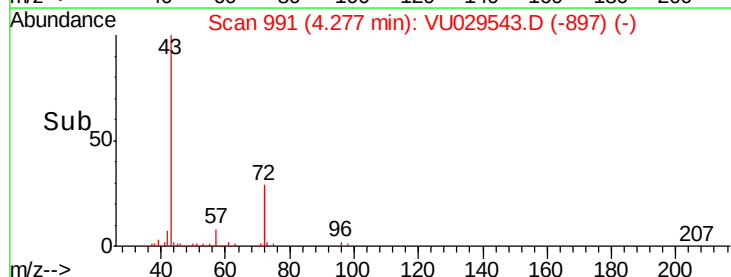
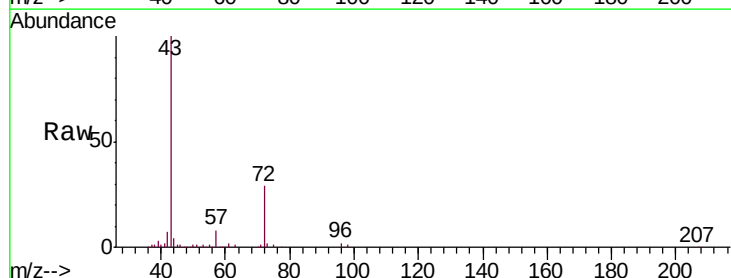
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00541

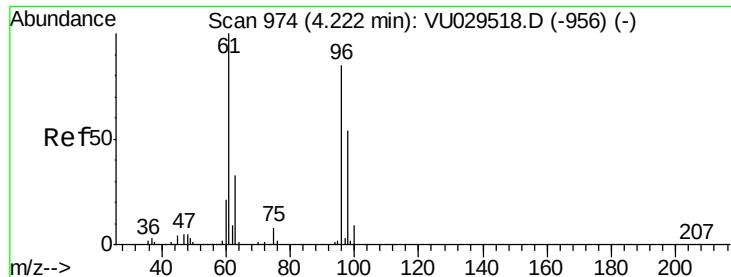
Tgt Ion: 63 Resp: 152161
 Ion Ratio Lower Upper
 63 100
 65 31.8 23.5 43.7
 83 14.0 10.3 19.1



#21
 2-Butanone
 Concen: 55.680 ug/L
 RT: 4.28 min Scan# 991
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

Tgt Ion: 43 Resp: 192617
 Ion Ratio Lower Upper
 43 100
 72 27.8 14.7 44.1



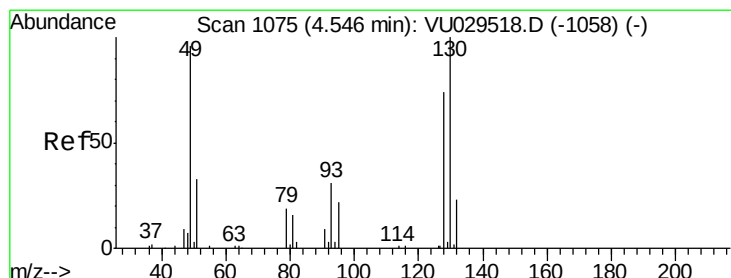
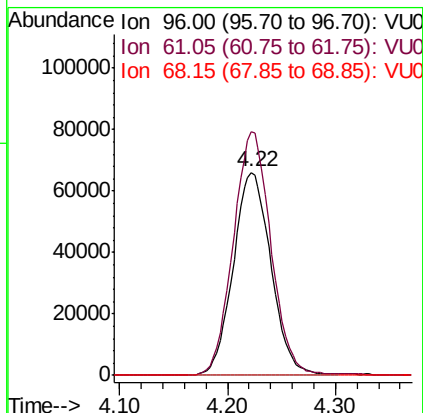
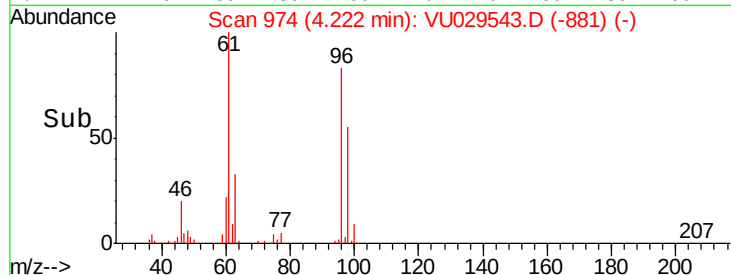
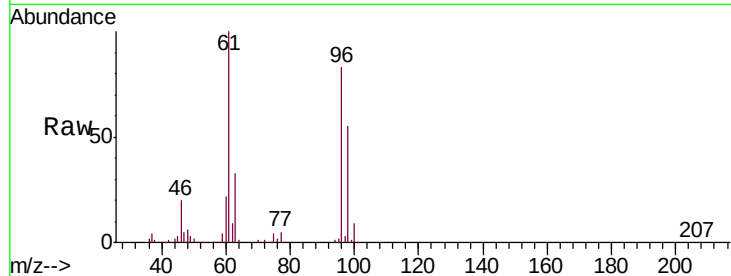


#22

cis-1,2-Dichloroethene
 Concen: 9.052 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00541

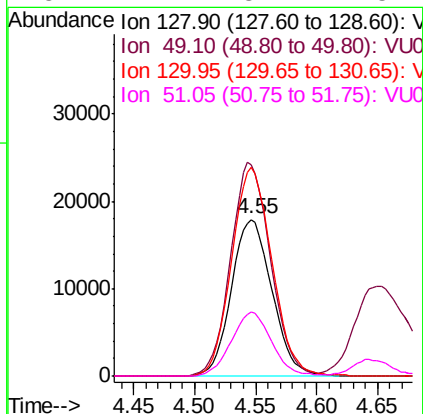
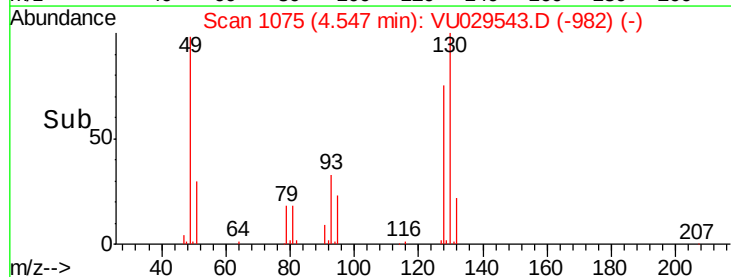
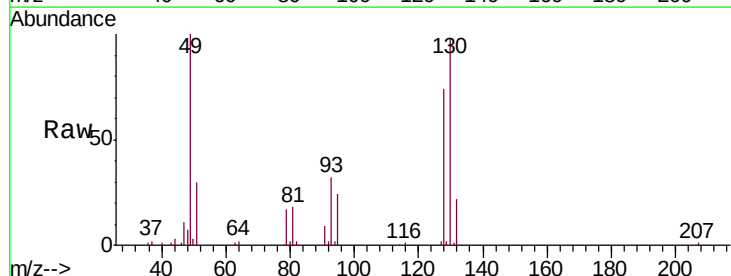
Tgt Ion: 96 Resp: 161194
 Ion Ratio Lower Upper
 96 100
 61 120.1 79.9 148.5
 68 0.0 0.0 0.0

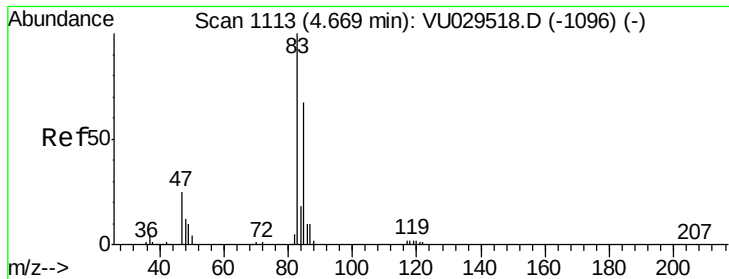


#23

Bromochloromethane
 Concen: 5.137 ug/L
 RT: 4.55 min Scan# 1075
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

Tgt Ion: 128 Resp: 41298
 Ion Ratio Lower Upper
 128 100
 49 134.9 89.0 165.4
 130 132.8 88.0 163.4
 51 41.1 32.1 48.1

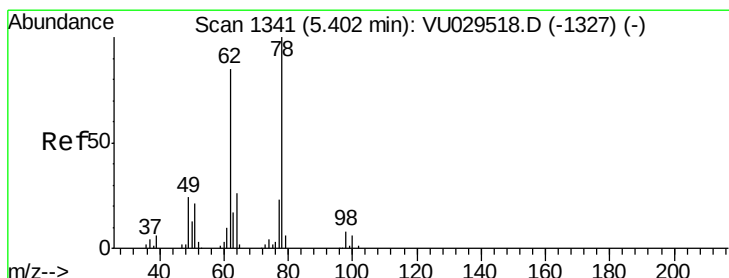
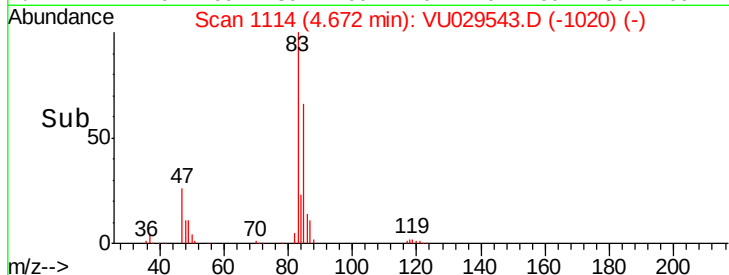
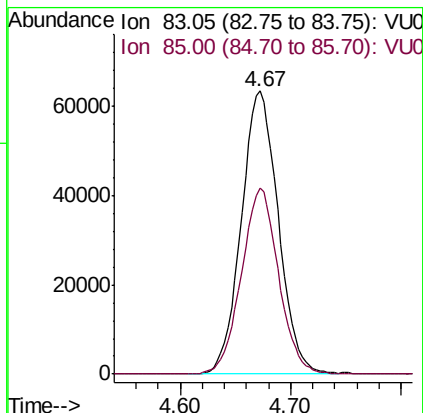
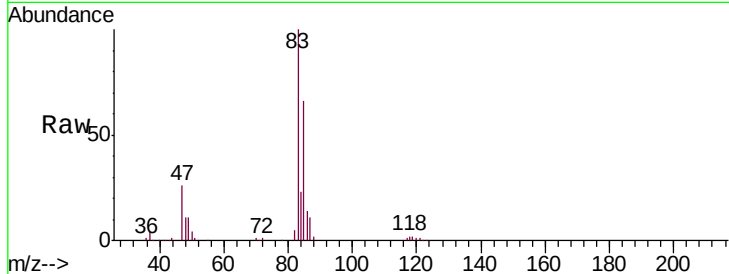




#25
Chloroform
Concen: 5.049 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU029543.D
Acq: 18 Feb 2019 20:30

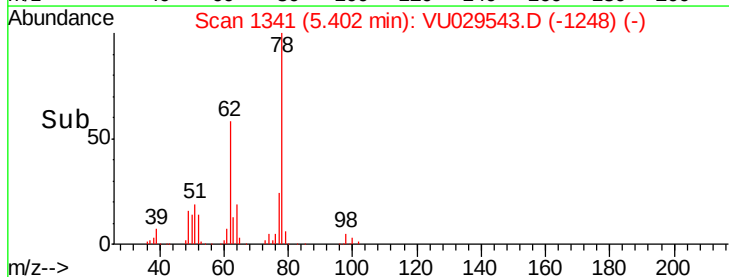
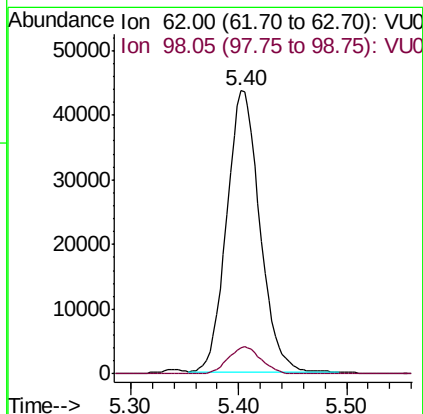
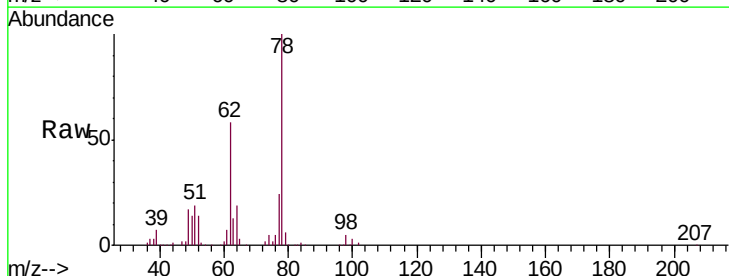
Instrument :
MSVOA_U
ClientSampleId :
VSTD00541

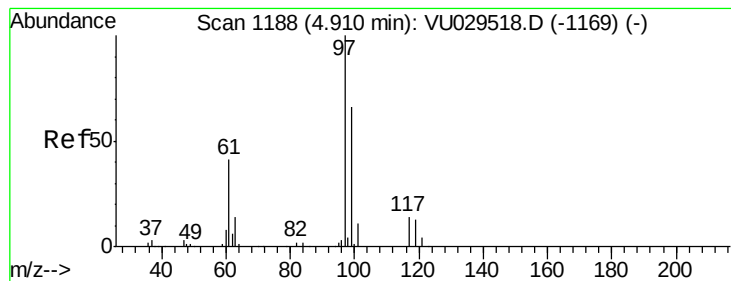
Tgt Ion: 83 Resp: 147335
Ion Ratio Lower Upper
83 100
85 66.0 47.8 88.8



#27
1,2-Dichloroethane
Concen: 5.546 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU029543.D
Acq: 18 Feb 2019 20:30

Tgt Ion: 62 Resp: 93641
Ion Ratio Lower Upper
62 100
98 9.3 8.4 12.6





#29

1,1,1-Trichloroethane

Concen: 4.738 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00541

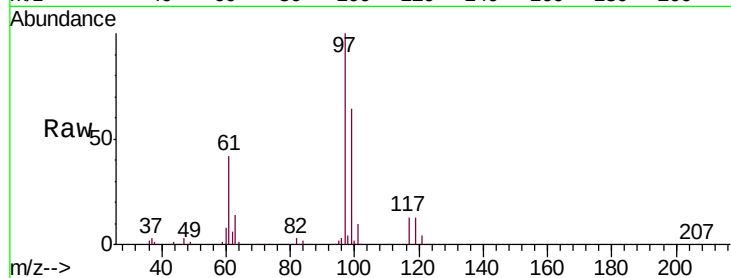
Tgt Ion: 97 Resp: 129817

Ion Ratio Lower Upper

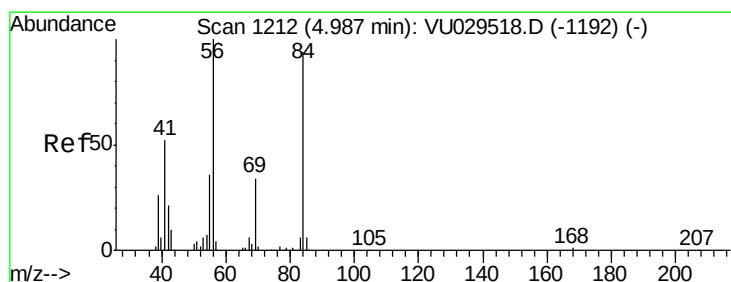
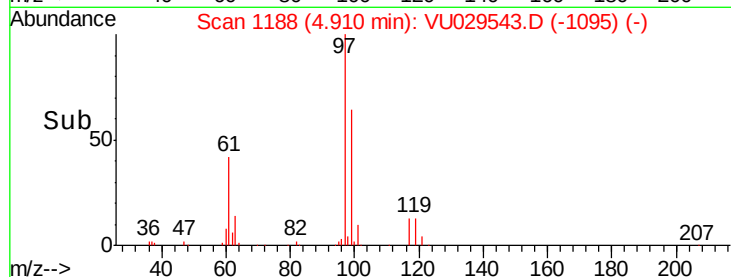
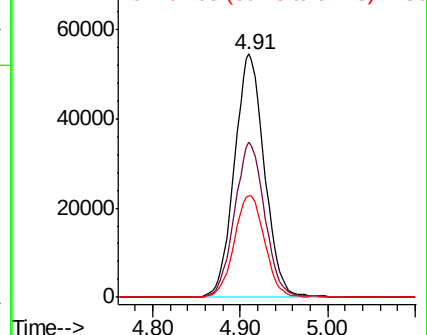
97 100

99 64.0 52.2 78.2

61 42.4 32.0 48.0



Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0



#30

Cyclohexane

Concen: 4.807 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

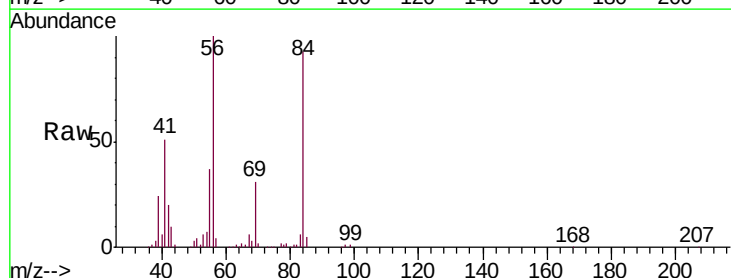
Tgt Ion: 56 Resp: 126201

Ion Ratio Lower Upper

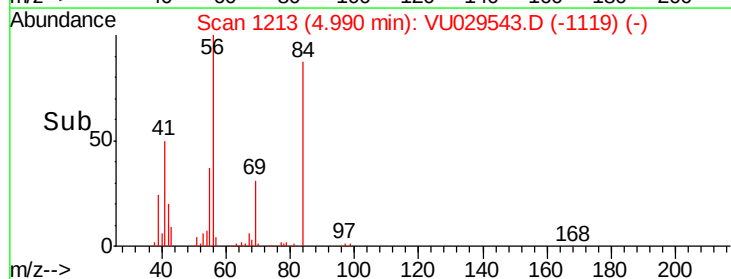
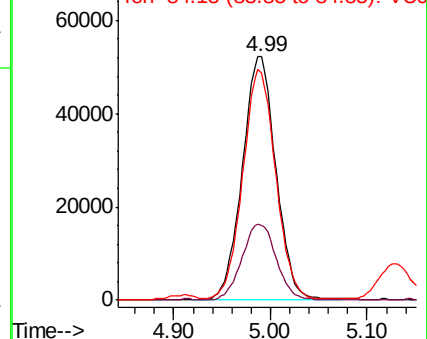
56 100

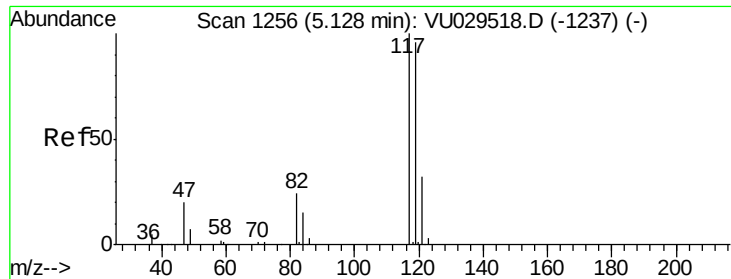
69 31.9 25.8 38.6

84 93.2 75.0 112.6



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.700 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampled :

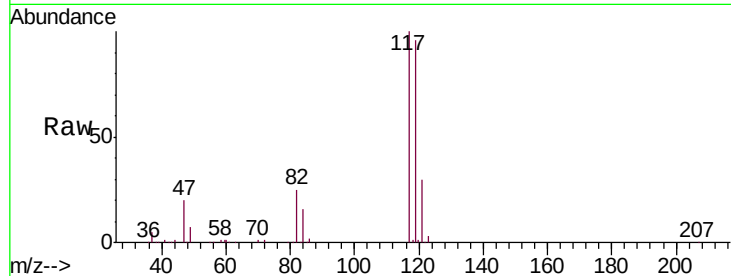
VSTD00541

Tgt Ion:117 Resp: 116363

Ion Ratio Lower Upper

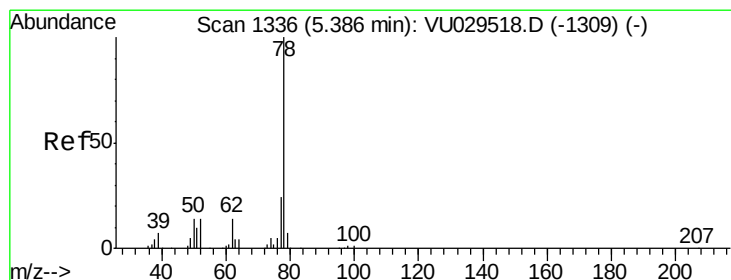
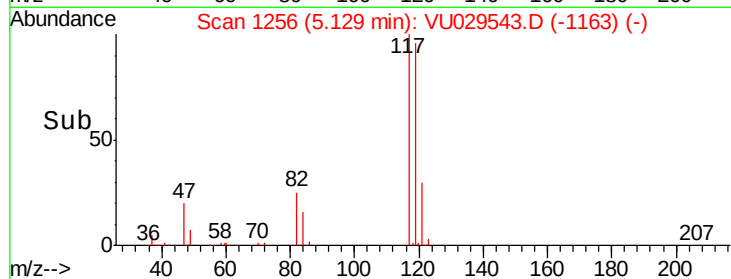
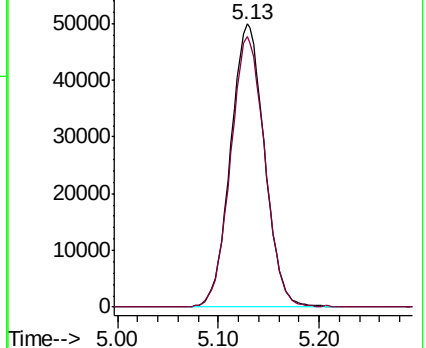
117 100

119 96.4 78.1 117.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.963 ug/L

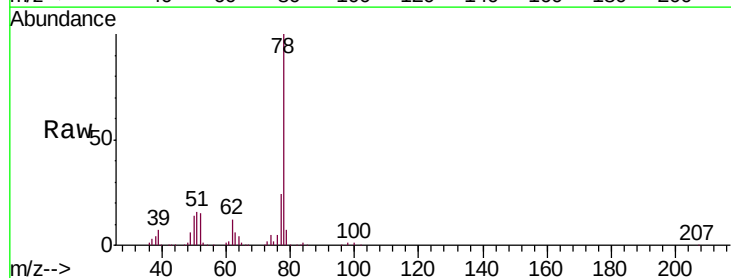
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

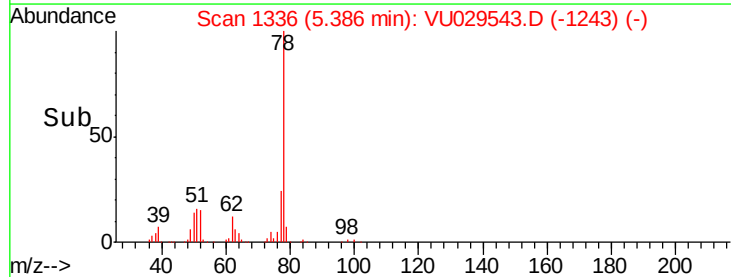
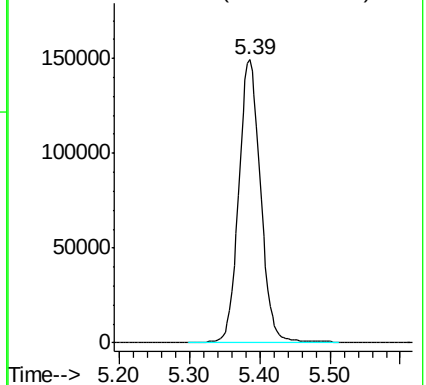
Lab File: VU029543.D

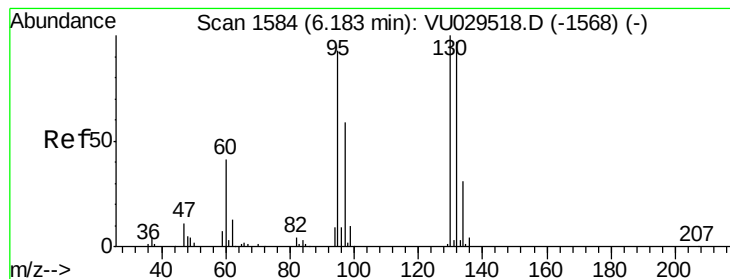
Acq: 18 Feb 2019 20:30

Tgt Ion: 78 Resp: 323564



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.890 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00541

Tgt Ion: 95 Resp: 89652

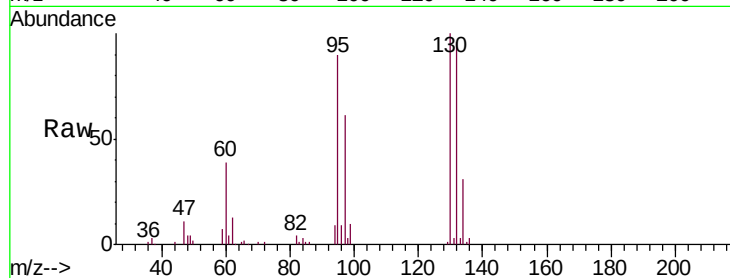
Ion Ratio Lower Upper

95 100

97 67.3 46.3 86.1

132 106.1 72.9 135.3

130 110.8 79.2 147.0

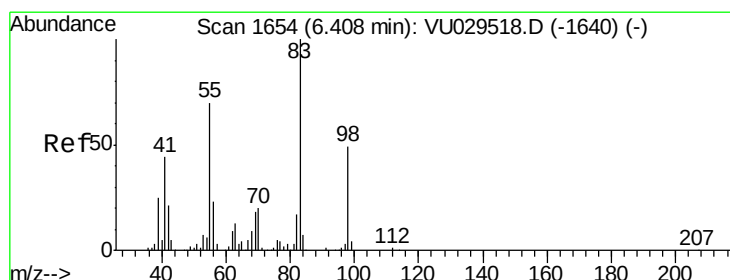
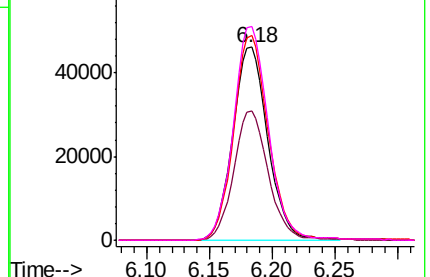
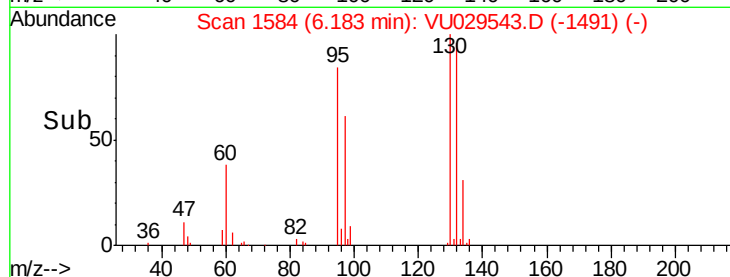


Abundance Ion 95.00 (94.70 to 95.70): VU029543.D (-1491) (-)

Ion 96.95 (96.65 to 97.65): VU029543.D (-1491) (-)

Ion 131.95 (131.65 to 132.65): VU029543.D (-1491) (-)

Ion 129.95 (129.65 to 130.65): VU029543.D (-1491) (-)



#35

Methylcyclohexane

Concen: 4.766 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

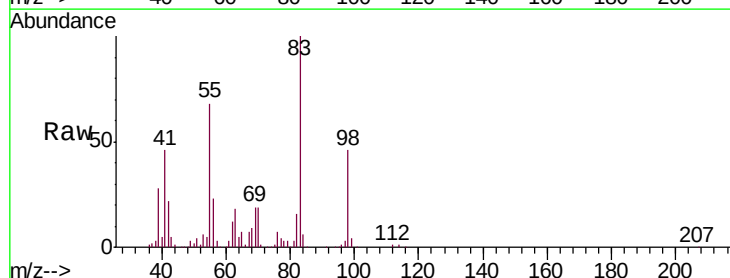
Tgt Ion: 83 Resp: 146985

Ion Ratio Lower Upper

83 100

55 70.0 55.9 83.9

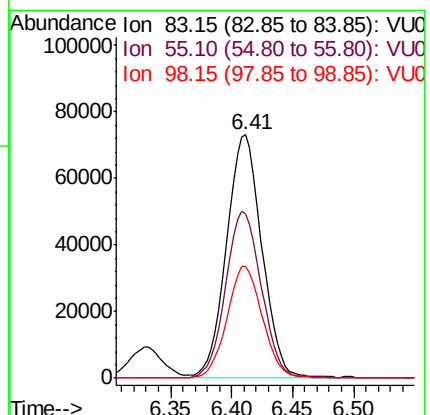
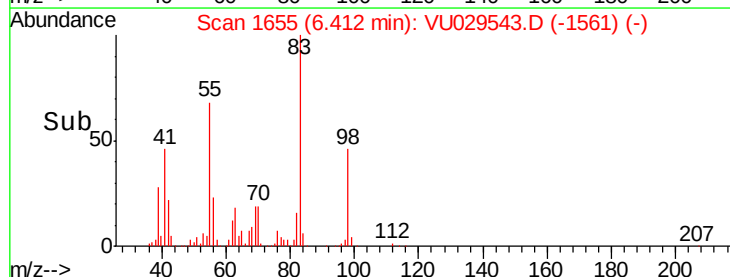
98 46.2 38.6 57.8

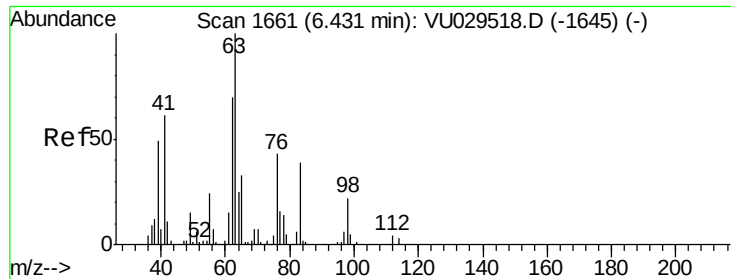


Abundance Ion 83.15 (82.85 to 83.85): VU029543.D (-1561) (-)

Ion 55.10 (54.80 to 55.80): VU029543.D (-1561) (-)

Ion 98.15 (97.85 to 98.85): VU029543.D (-1561) (-)

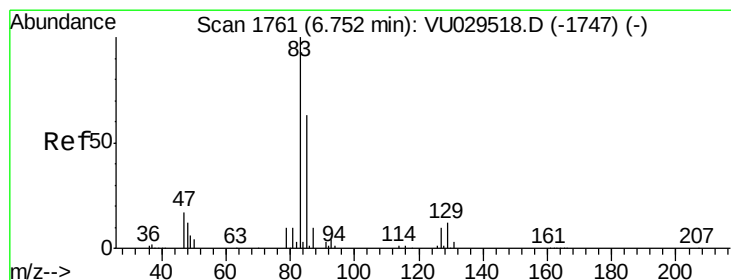
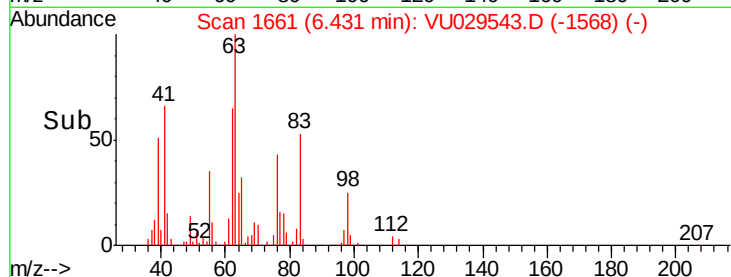
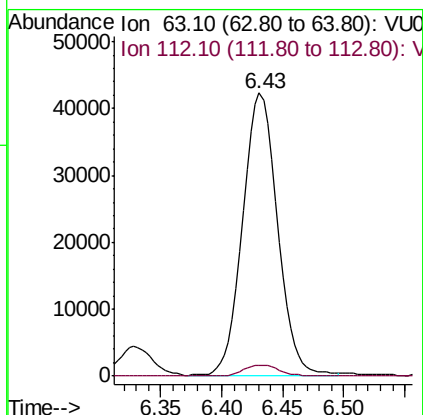
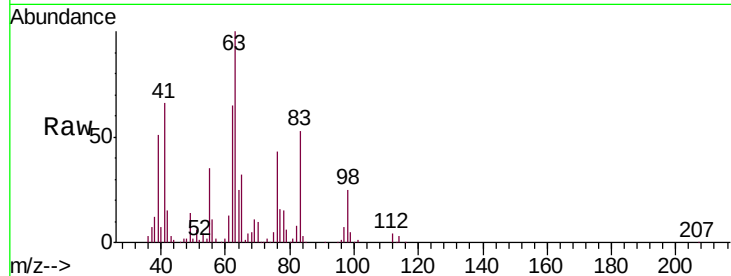




#37
 1,2-Dichloropropane
 Concen: 5.076 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

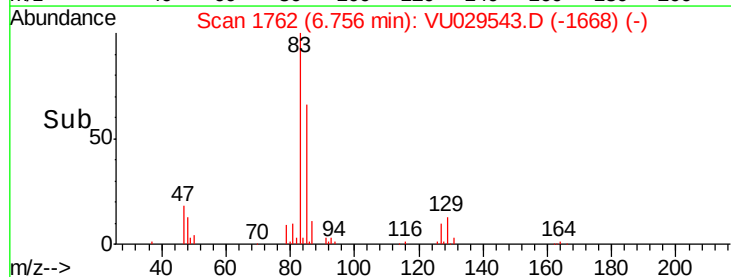
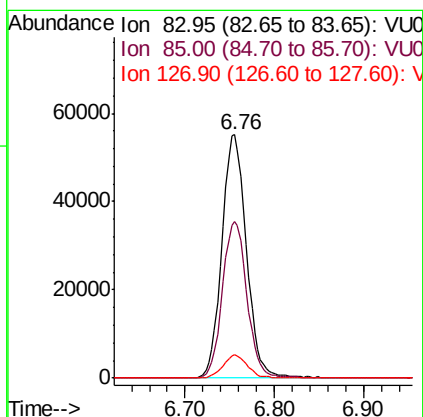
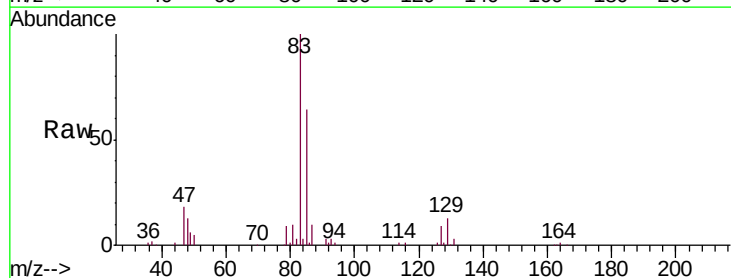
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00541

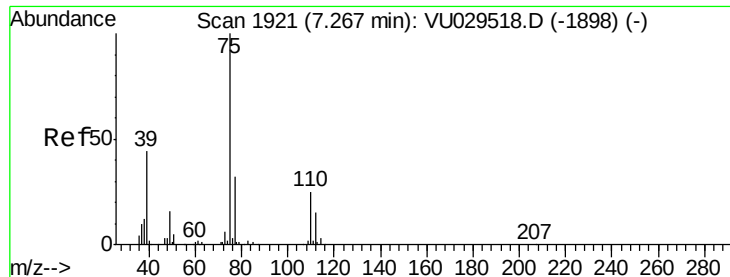
Tgt Ion: 63 Resp: 82893
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.5 5.3



#38
 Bromodichloromethane
 Concen: 4.885 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

Tgt Ion: 83 Resp: 105420
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.1 83.7
 127 9.5 7.8 11.8





#39

cis-1,3-Dichloropropene

Concen: 4.731 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampled :

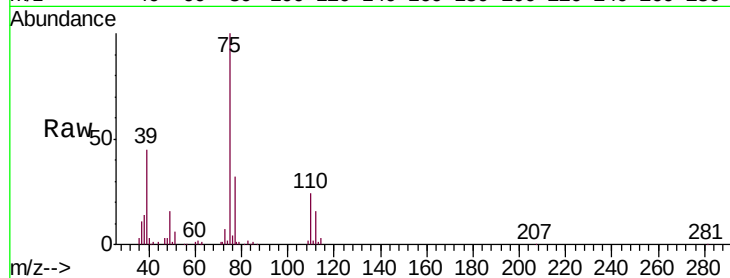
VSTD00541

Tgt Ion: 75 Resp: 121610

Ion Ratio Lower Upper

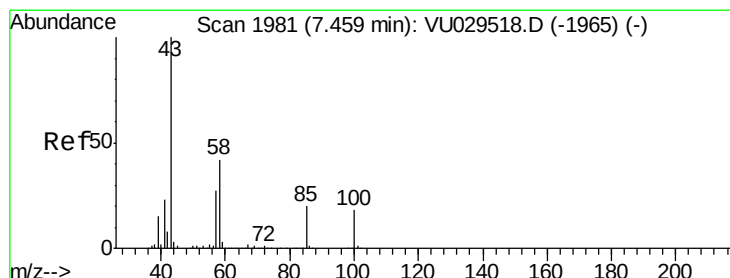
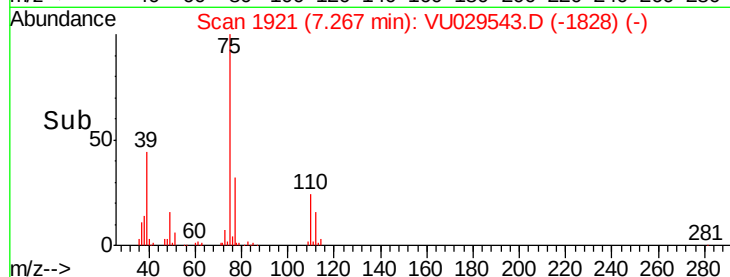
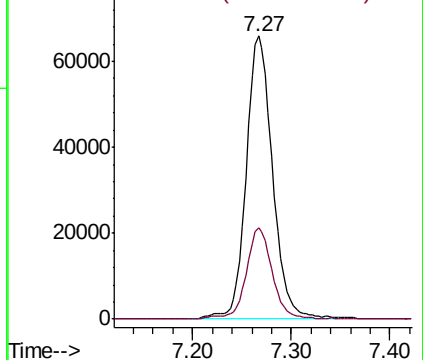
75 100

77 32.2 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#40

4-Methyl-2-pentanone

Concen: 53.115 ug/L

RT: 7.46 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

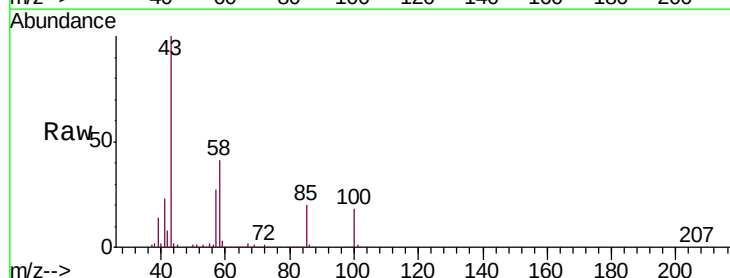
Tgt Ion: 43 Resp: 500009

Ion Ratio Lower Upper

43 100

58 41.1 33.4 50.2

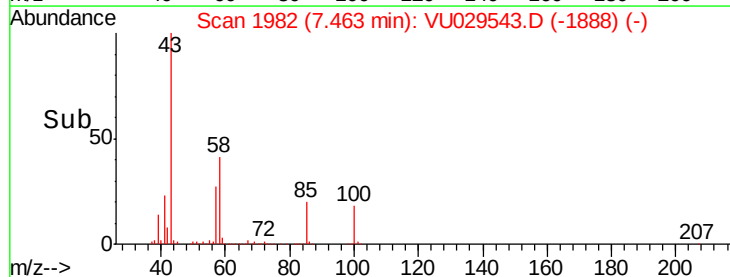
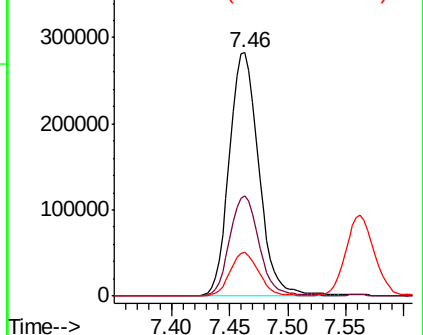
100 17.7 14.4 21.6

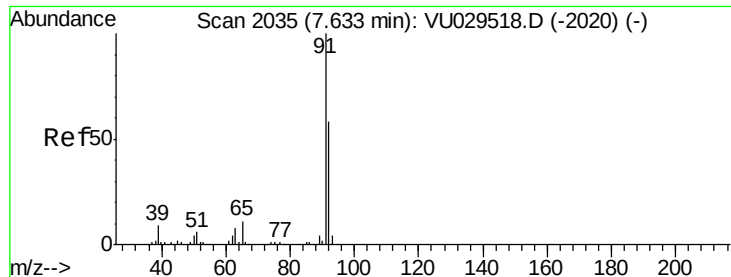


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 5.118 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

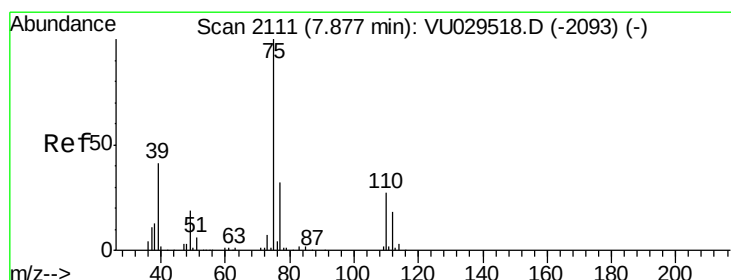
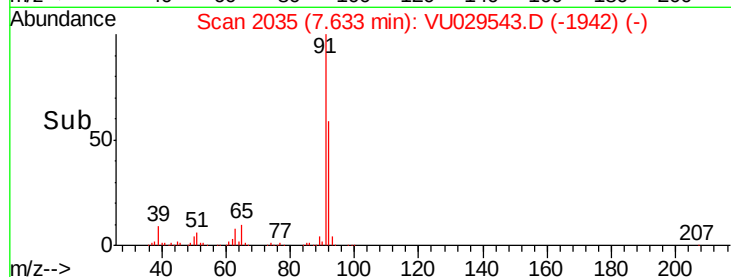
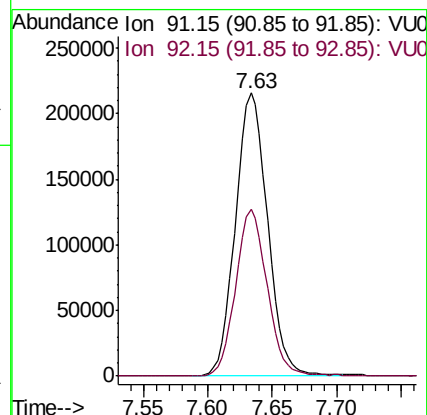
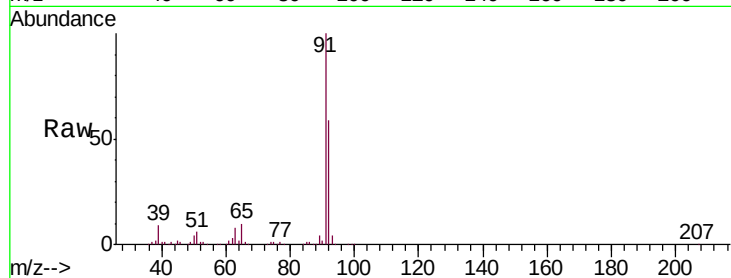
VSTD00541

Tgt Ion: 91 Resp: 374562

Ion Ratio Lower Upper

91 100

92 58.9 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 4.722 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU029543.D

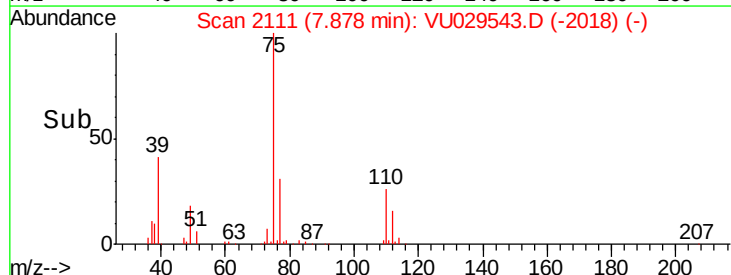
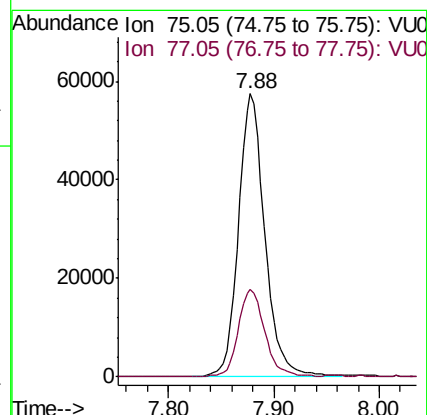
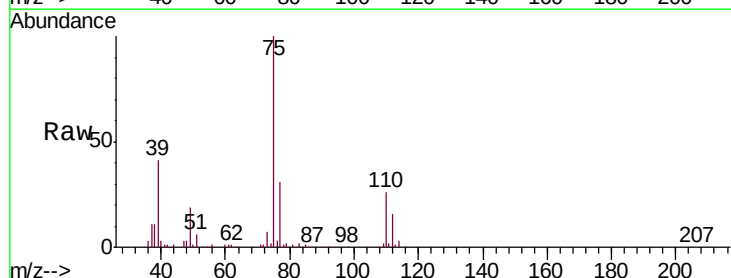
Acq: 18 Feb 2019 20:30

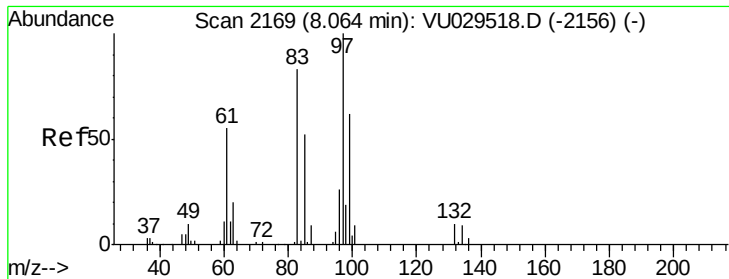
Tgt Ion: 75 Resp: 99673

Ion Ratio Lower Upper

75 100

77 31.0 22.2 41.2





#45

1,1,2-Trichloroethane

Concen: 5.197 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00541

Tgt Ion: 97 Resp: 65019

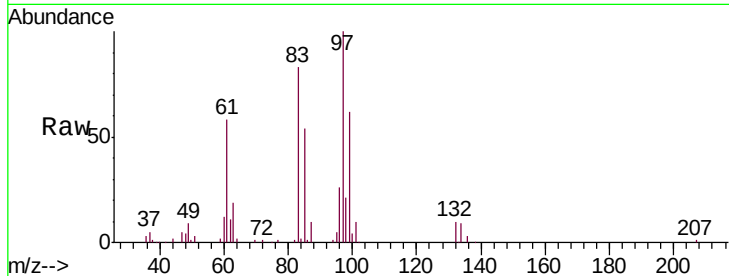
Ion Ratio Lower Upper

97 100

99 62.0 41.6 77.2

83 83.0 55.8 103.6

85 54.0 37.2 69.0



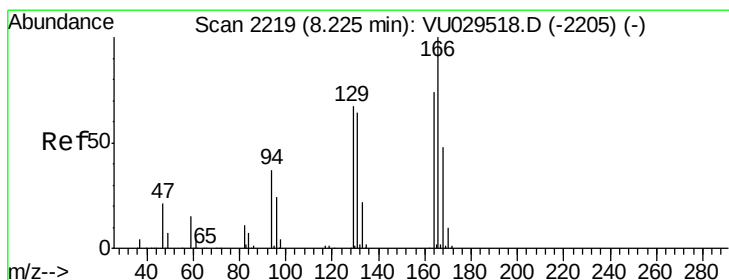
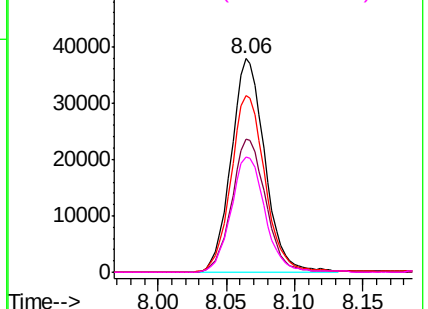
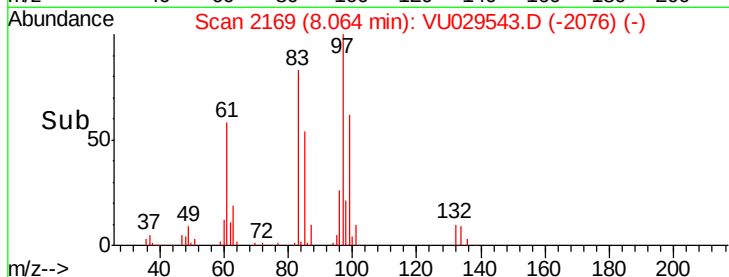
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 4.952 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Tgt Ion: 164 Resp: 83156

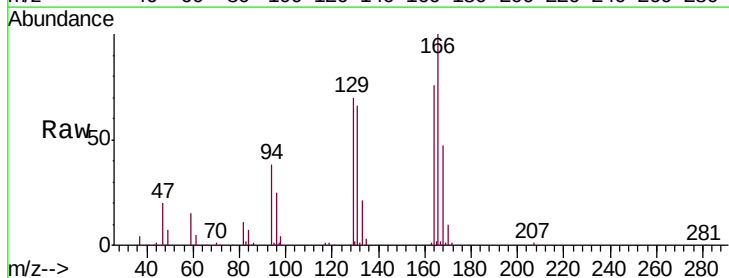
Ion Ratio Lower Upper

164 100

129 91.3 62.9 116.9

131 86.4 62.1 115.3

166 131.3 89.8 166.8



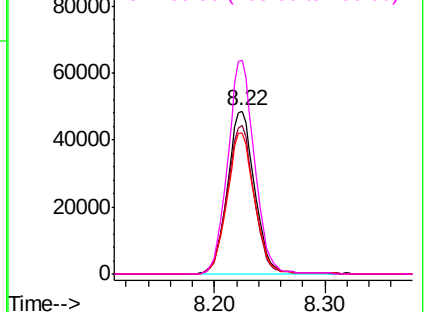
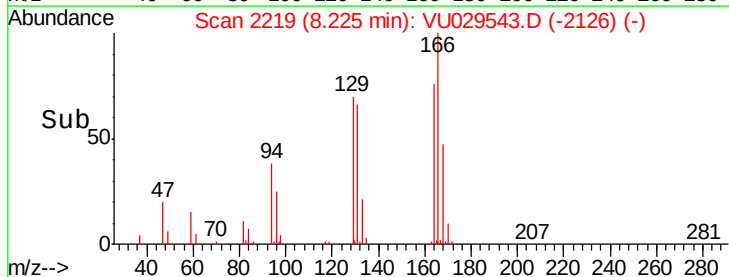
Abundance

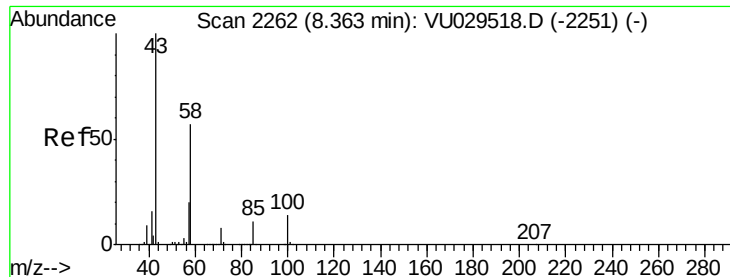
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

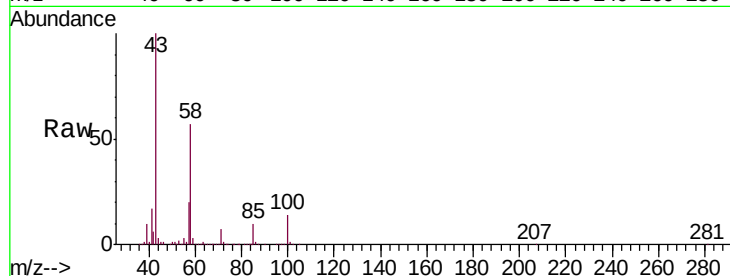




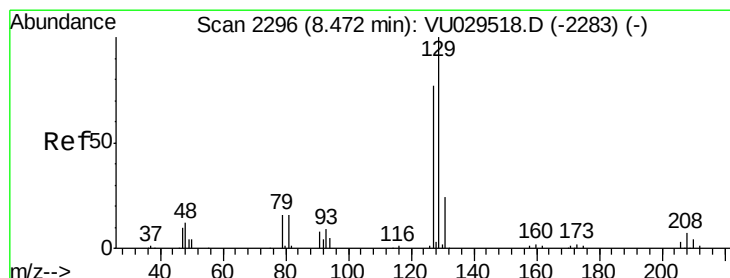
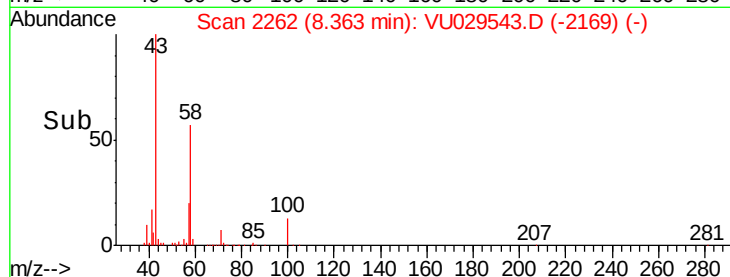
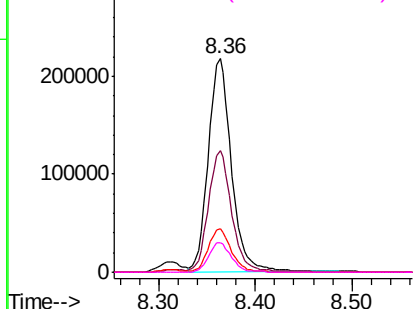
#48
2-Hexanone
Concen: 52.740 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU029543.D
Acq: 18 Feb 2019 20:30

Instrument :
MSVOA_U
ClientSampleId :
VSTD00541

Tgt Ion: 43 Resp: 361852
Ion Ratio Lower Upper
43 100
58 57.3 45.7 68.5
57 20.3 16.4 24.6
100 13.7 11.1 16.7

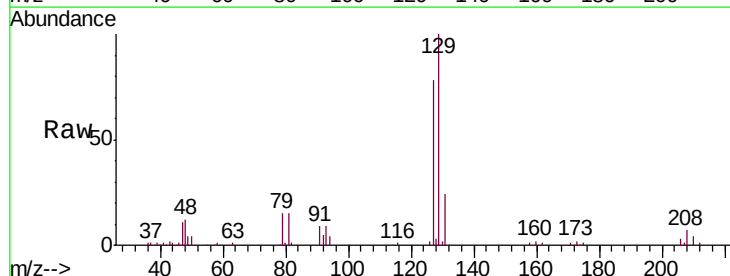


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

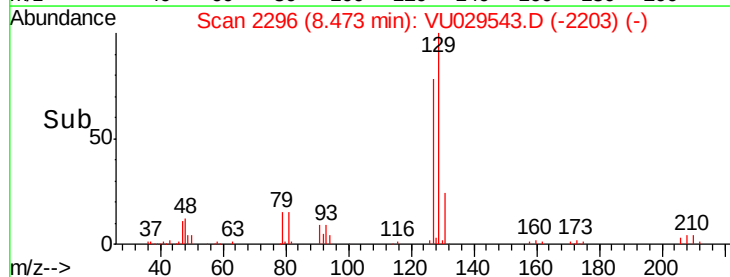
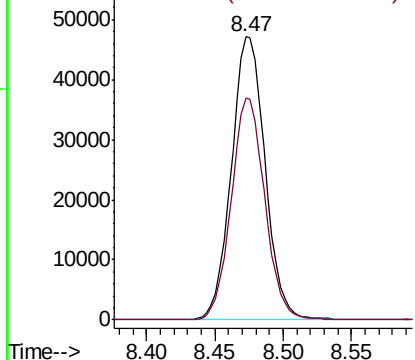


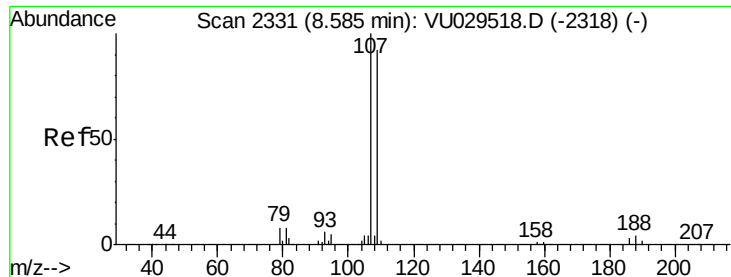
#49
Dibromochloromethane
Concen: 4.804 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU029543.D
Acq: 18 Feb 2019 20:30

Tgt Ion: 129 Resp: 80992
Ion Ratio Lower Upper
129 100
127 78.3 53.3 99.1



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

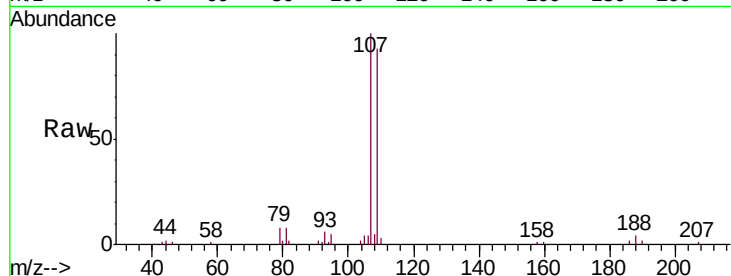




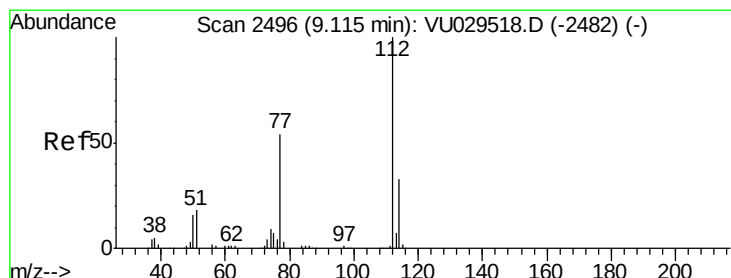
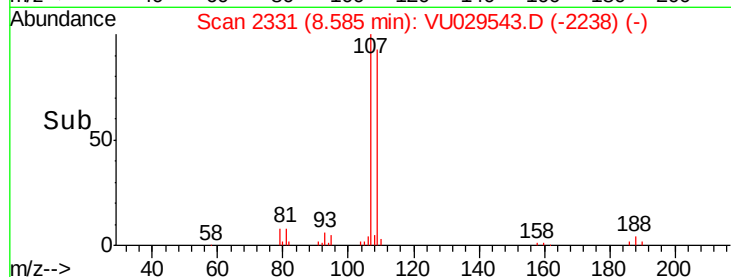
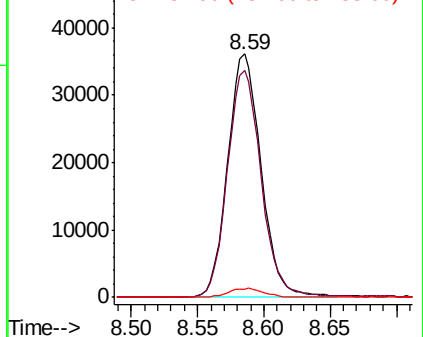
#50
 1,2-Dibromoethane
 Concen: 5.121 ug/L
 RT: 8.59 min Scan# 2331
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00541

Tgt Ion:107 Resp: 63400
 Ion Ratio Lower Upper
 107 100
 109 93.3 64.1 119.1
 188 3.6 3.7 5.5#

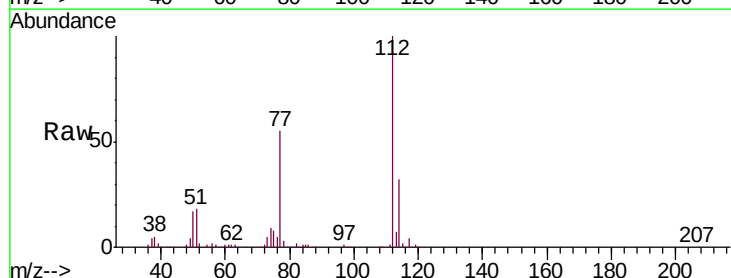


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

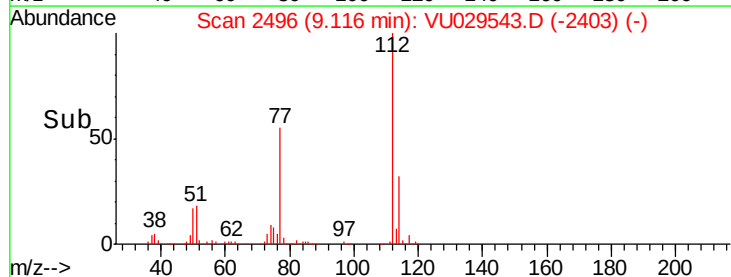
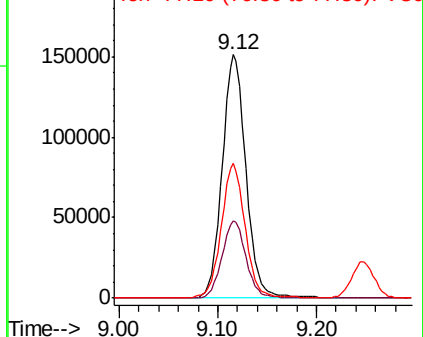


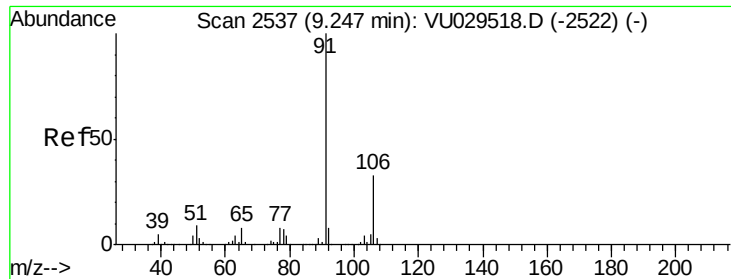
#51
 Chlorobenzene
 Concen: 5.083 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

Tgt Ion:112 Resp: 255798
 Ion Ratio Lower Upper
 112 100
 114 31.9 22.9 42.5
 77 55.3 41.8 62.6



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 5.178 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

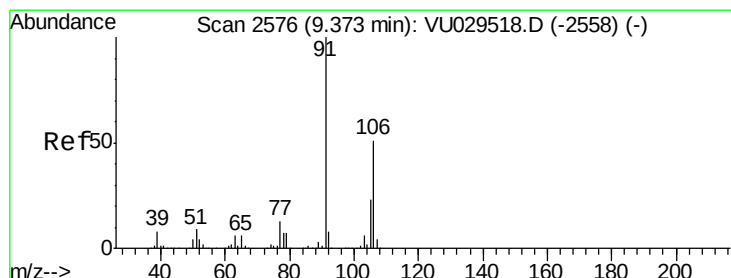
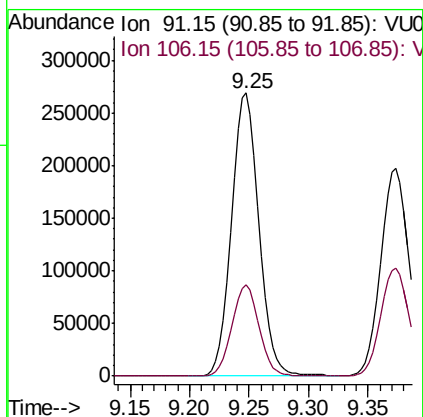
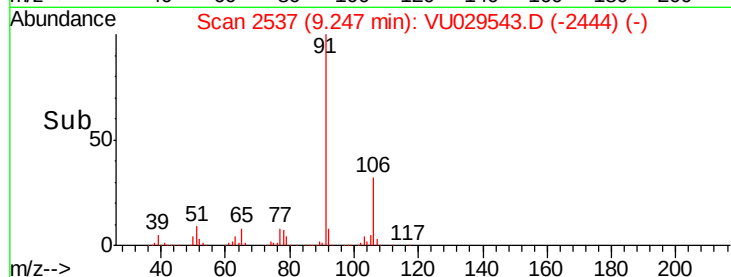
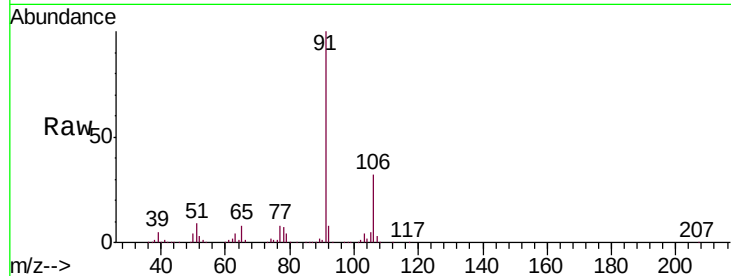
VSTD00541

Tgt Ion: 91 Resp: 429094

Ion Ratio Lower Upper

91 100

106 32.4 22.8 42.4



#53

m,p-xylene

Concen: 5.162 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029543.D

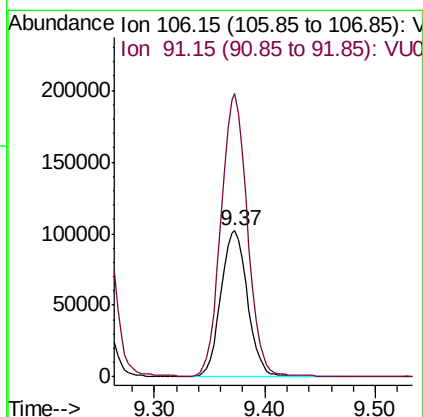
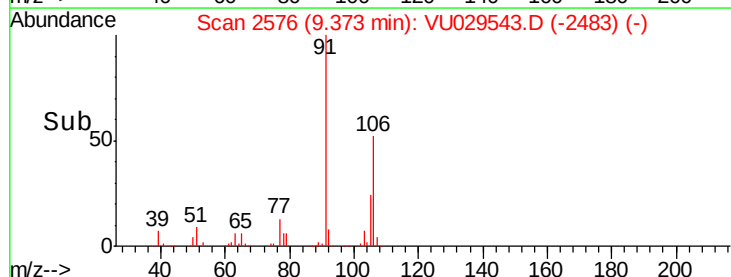
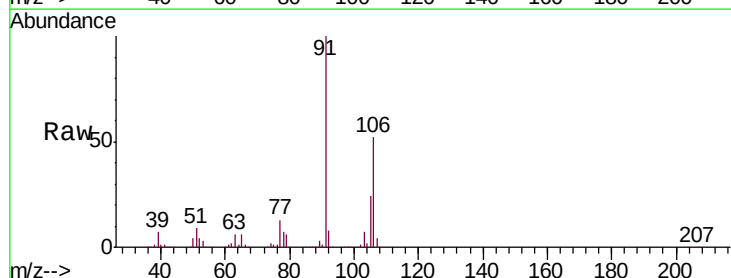
Acq: 18 Feb 2019 20:30

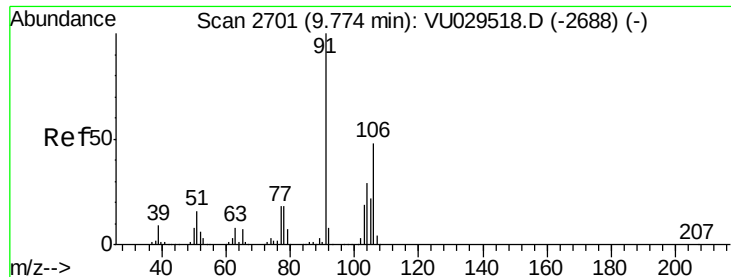
Tgt Ion: 106 Resp: 170589

Ion Ratio Lower Upper

106 100

91 193.4 135.7 251.9





#54

o-xylene

Concen: 5.142 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

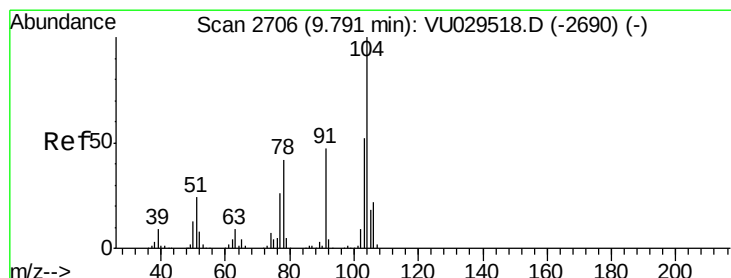
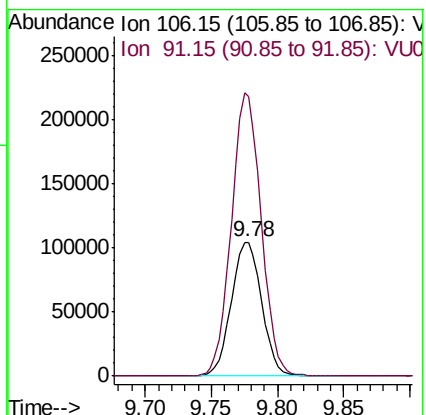
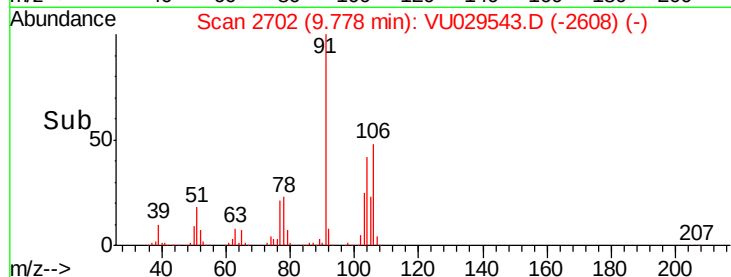
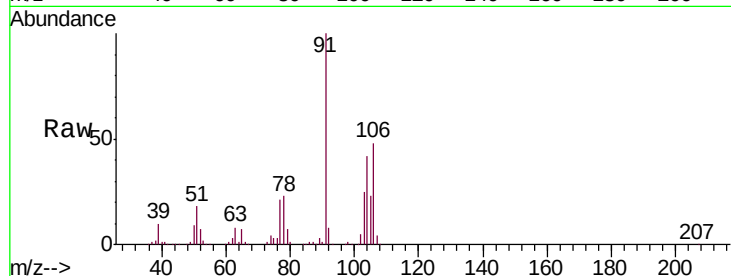
VSTD00541

Tgt Ion:106 Resp: 166789

Ion Ratio Lower Upper

106 100

91 209.2 145.1 269.5



#55

Styrene

Concen: 5.200 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029543.D

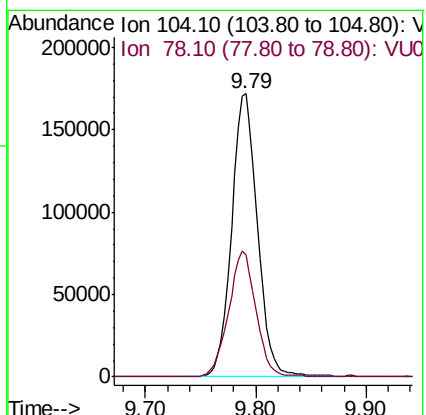
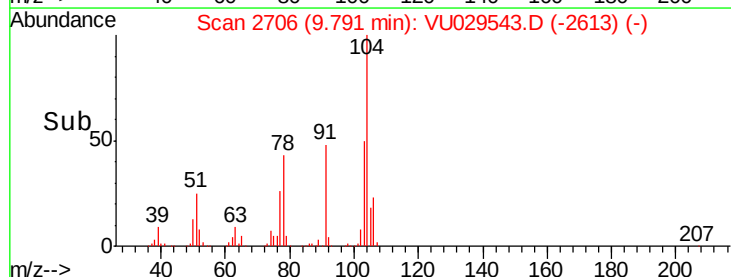
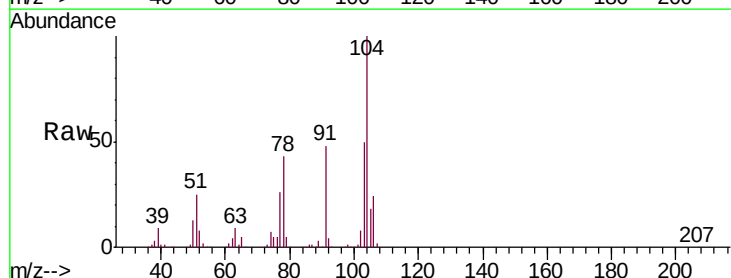
Acq: 18 Feb 2019 20:30

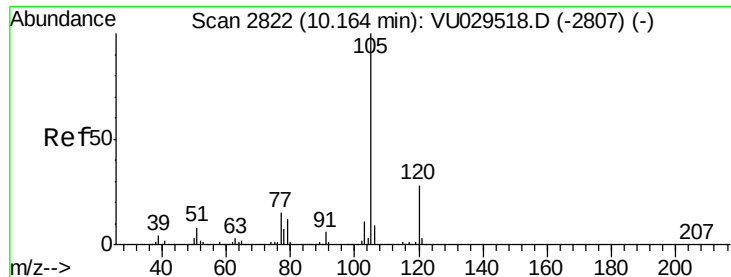
Tgt Ion:104 Resp: 280001

Ion Ratio Lower Upper

104 100

78 43.1 30.5 56.7





#56

Isopropylbenzene

Concen: 5.148 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00541

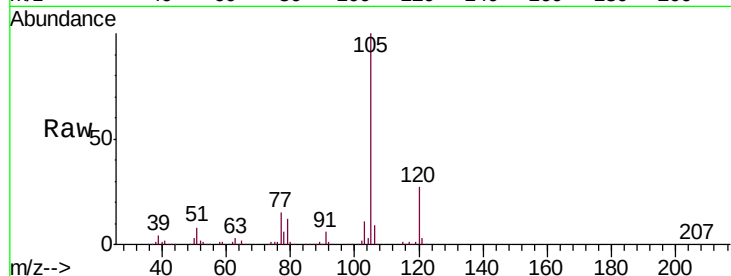
Tgt Ion: 105 Resp: 440390

Ion Ratio Lower Upper

105 100

120 27.6 22.2 33.4

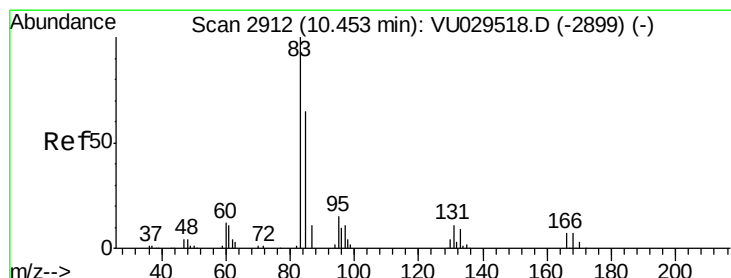
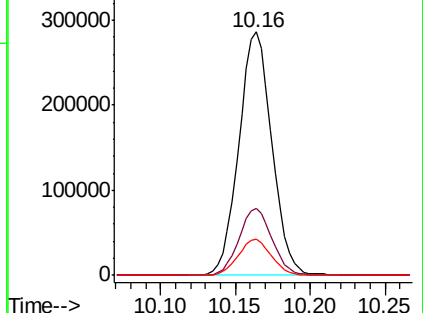
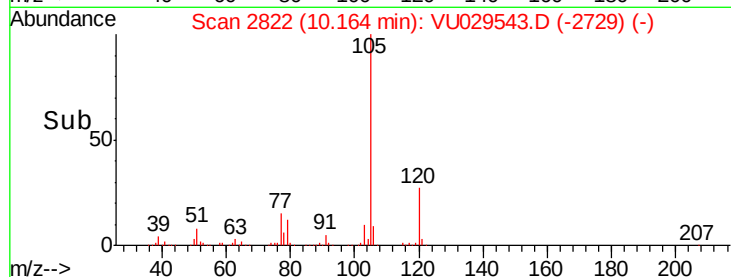
77 14.9 11.5 17.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.481 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

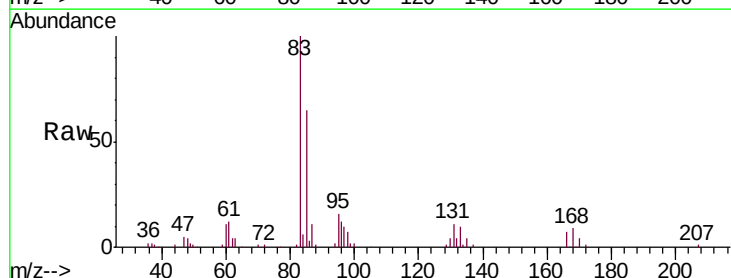
Tgt Ion: 83 Resp: 83672

Ion Ratio Lower Upper

83 100

85 64.7 46.5 86.3

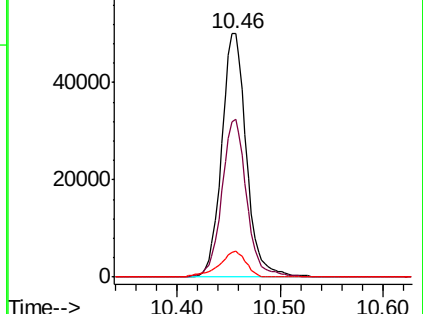
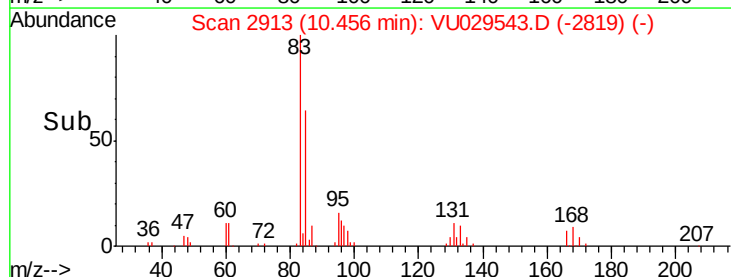
131 10.5 8.3 12.5

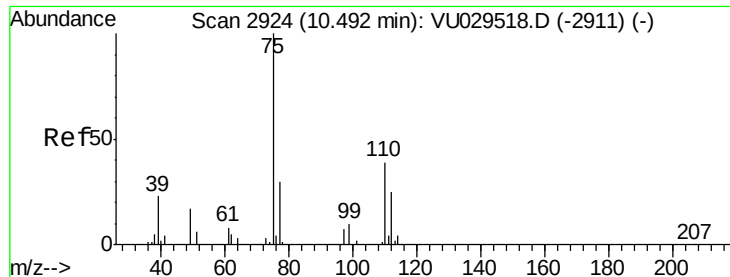


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

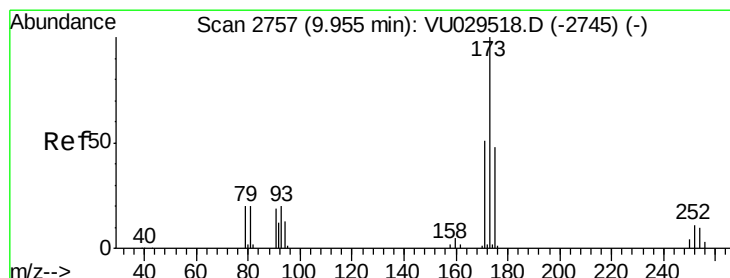
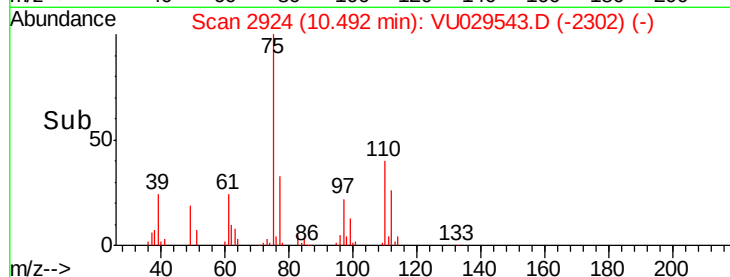
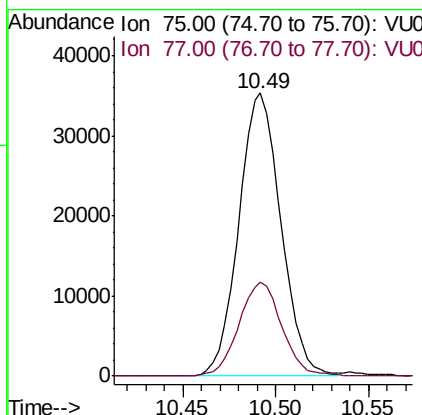
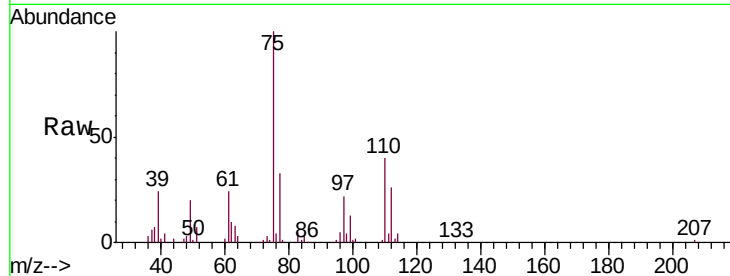




#59
 1,2,3-Trichloropropane
 Concen: 5.314 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

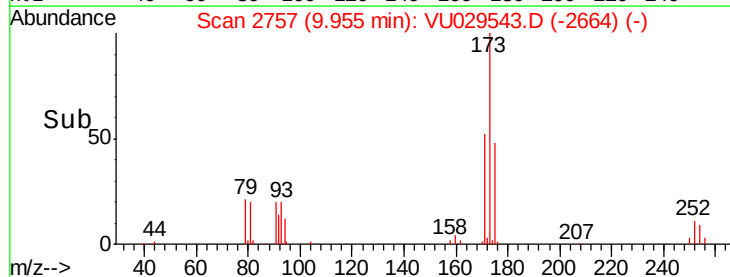
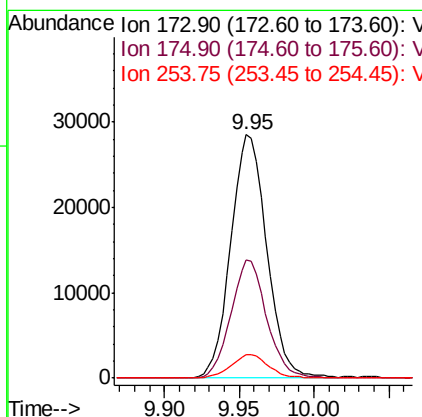
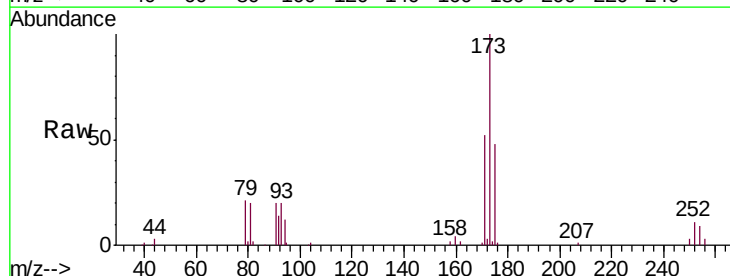
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00541

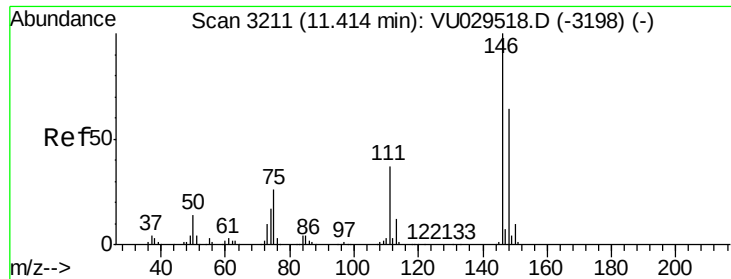
Tgt Ion: 75 Resp: 55669
 Ion Ratio Lower Upper
 75 100
 77 33.9 28.2 42.2



#61
 Bromoform
 Concen: 4.545 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

Tgt Ion: 173 Resp: 47896
 Ion Ratio Lower Upper
 173 100
 175 47.9 39.2 58.8
 254 9.8 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 4.992 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00541

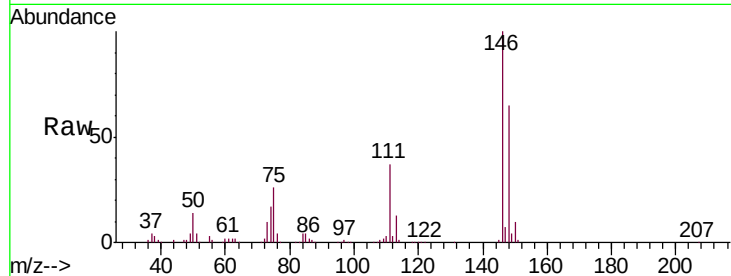
Tgt Ion:146 Resp: 220156

Ion Ratio Lower Upper

146 100

111 37.1 26.1 48.5

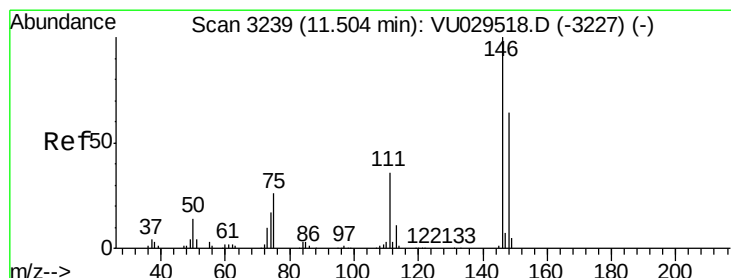
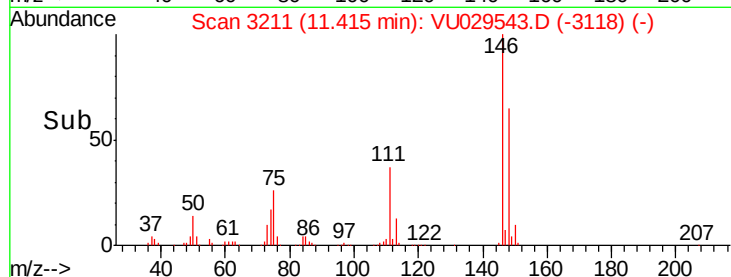
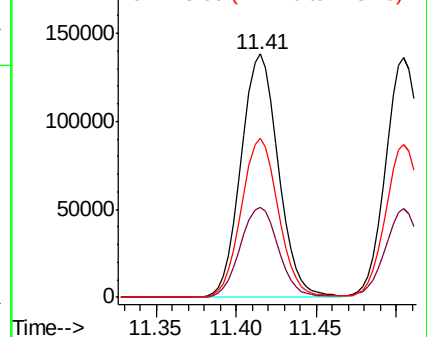
148 65.4 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.011 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

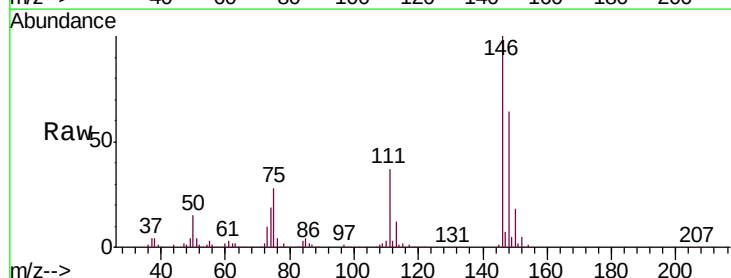
Tgt Ion:146 Resp: 220704

Ion Ratio Lower Upper

146 100

111 37.0 25.6 47.6

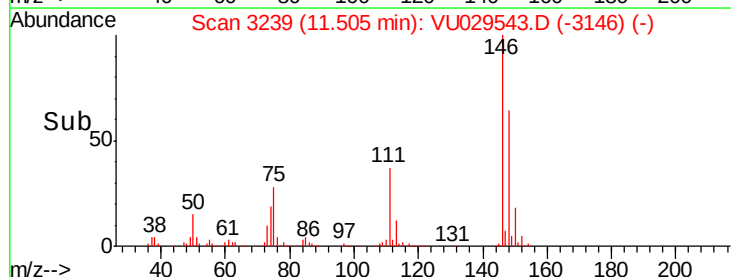
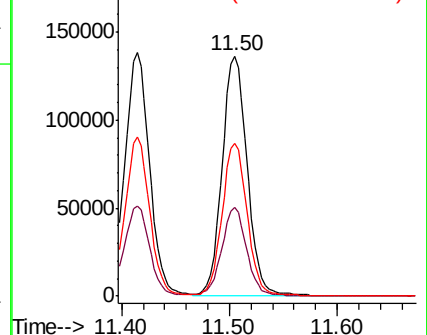
148 63.9 44.2 82.0

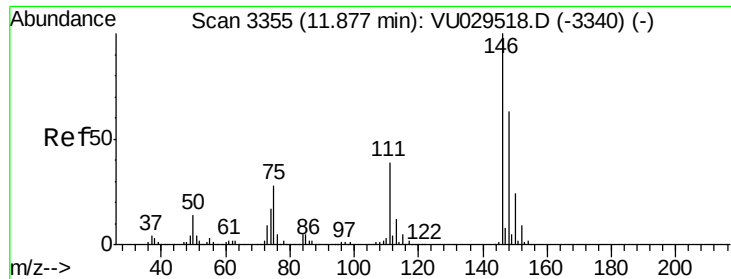


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

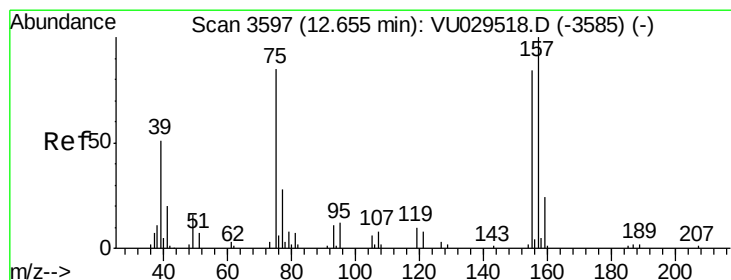
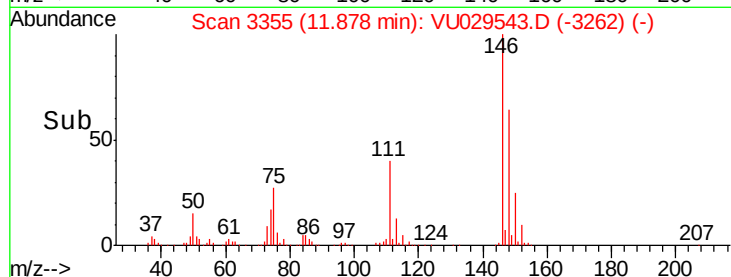
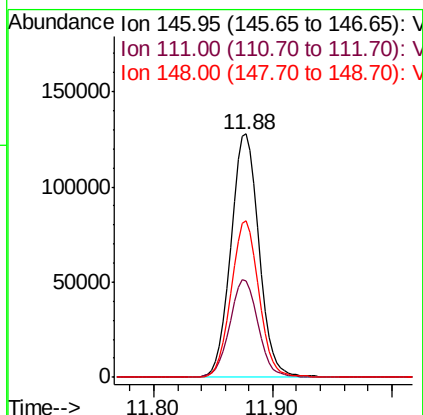
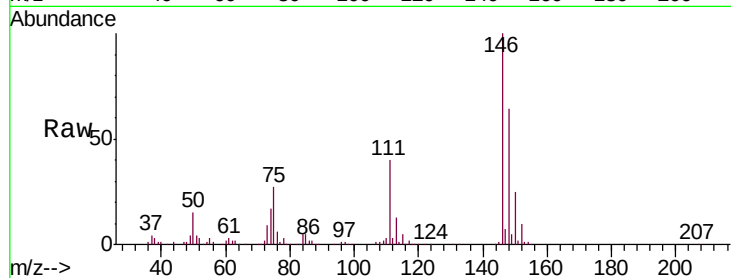




#65
 1,2-Dichlorobenzene
 Concen: 5.043 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

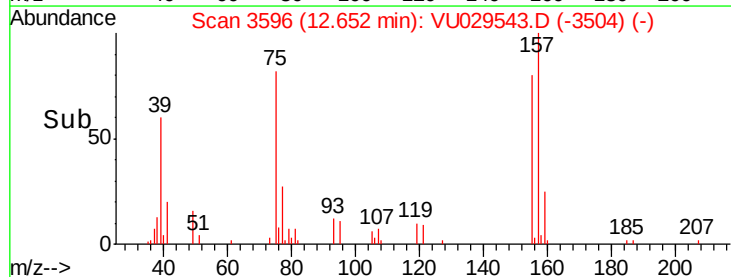
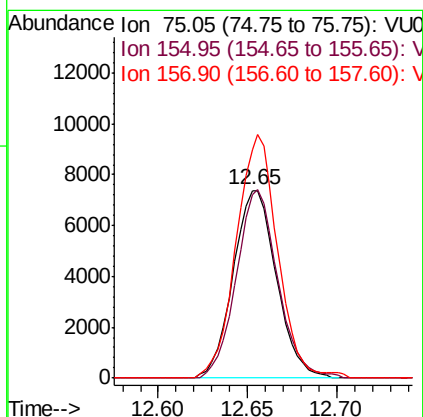
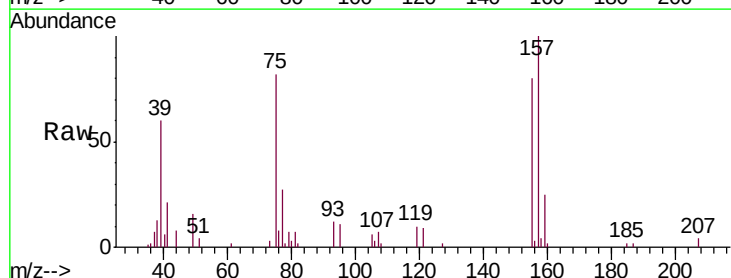
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00541

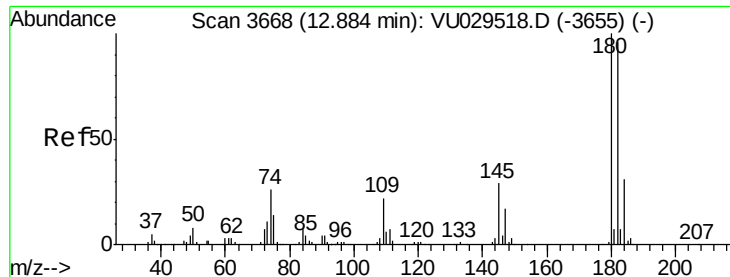
Tgt Ion: 146 Resp: 209557
 Ion Ratio Lower Upper
 146 100
 111 39.6 30.9 46.3
 148 64.3 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.809 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029543.D
 Acq: 18 Feb 2019 20:30

Tgt Ion: 75 Resp: 12503
 Ion Ratio Lower Upper
 75 100
 155 97.7 75.3 112.9
 157 121.9 103.0 154.4





#67

1,3,5-Trichlorobenzene

Concen: 4.858 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00541

Tgt Ion:180 Resp: 177755

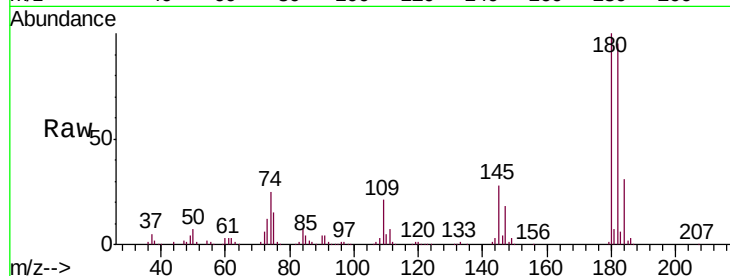
Ion Ratio Lower Upper

180 100

182 94.5 76.0 114.0

184 31.0 24.1 36.1

145 27.7 22.6 34.0

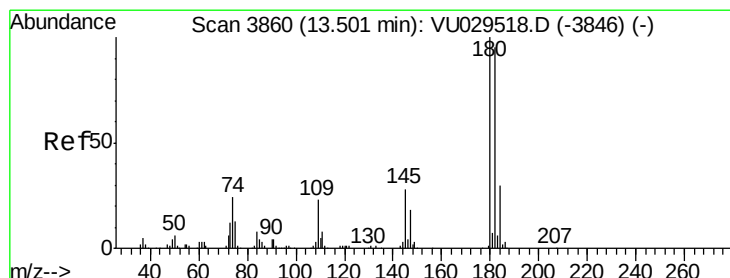
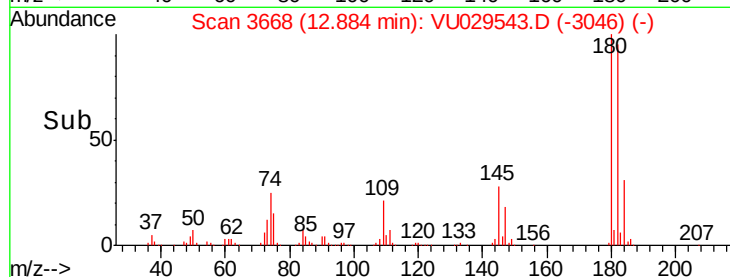
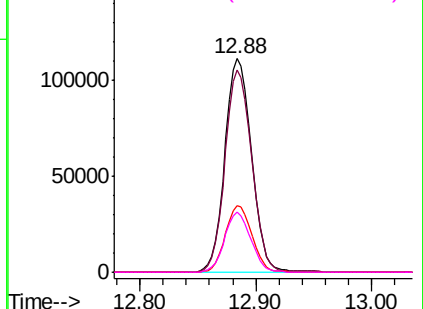


Abundance Ion 180.00 (179.70 to 180.70): V

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: 4.999 ug/L

RT: 13.50 min Scan# 3860

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

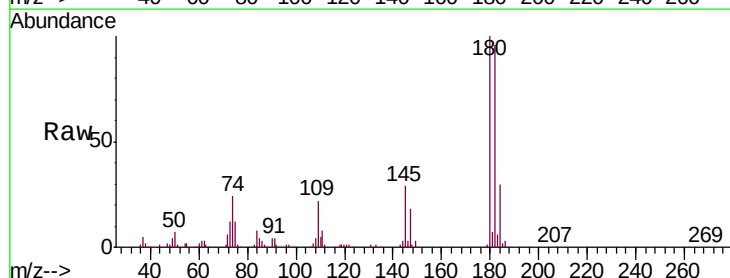
Tgt Ion:180 Resp: 154065

Ion Ratio Lower Upper

180 100

182 95.0 77.1 115.7

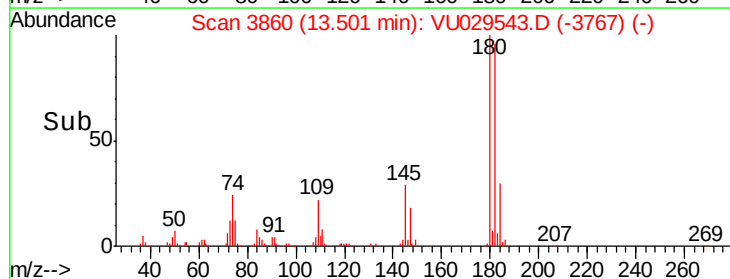
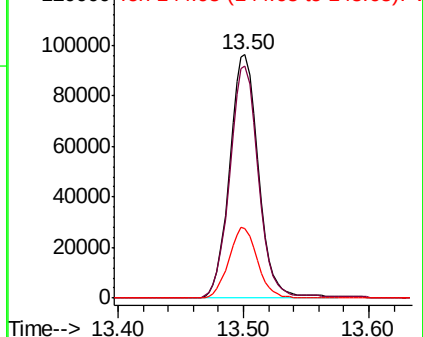
145 28.6 23.1 34.7

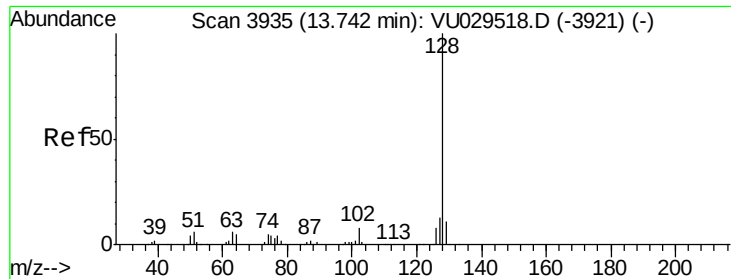


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.861 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

Instrument :

MSVOA_U

ClientSampleId :

VSTD00541

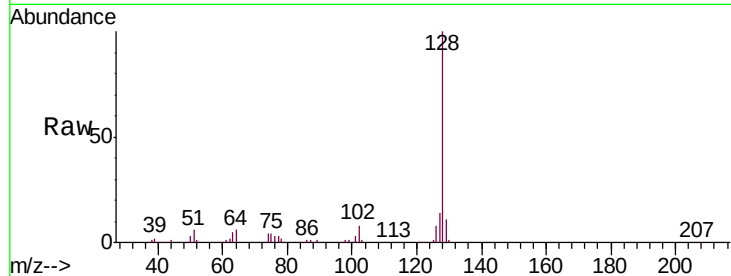
Tgt Ion:128 Resp: 258723

Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

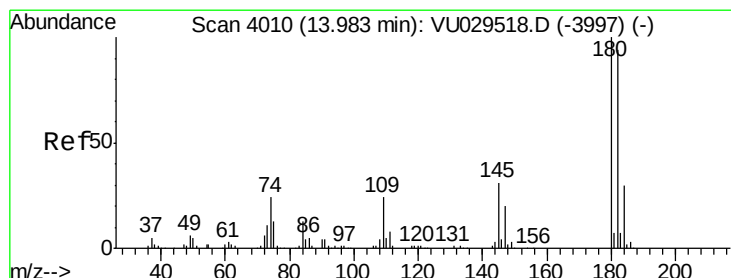
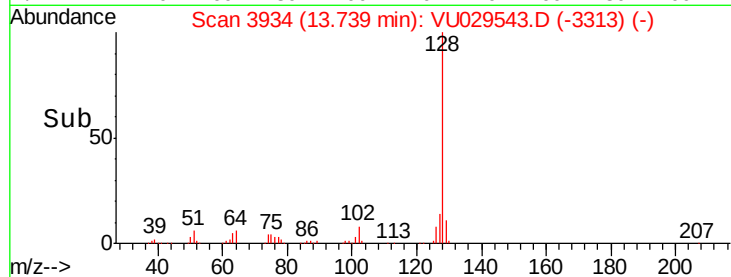
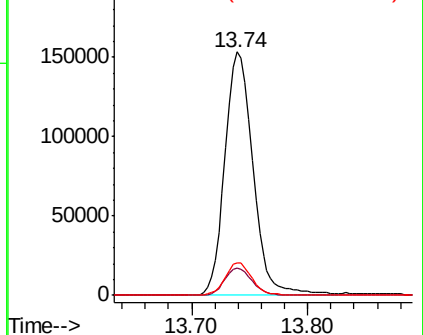
127 12.9 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.832 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU029543.D

Acq: 18 Feb 2019 20:30

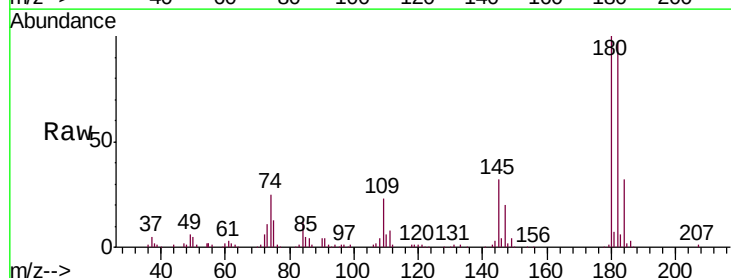
Tgt Ion:180 Resp: 142388

Ion Ratio Lower Upper

180 100

182 96.8 75.9 113.9

145 30.0 23.8 35.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

