

Data File : VU029419.D
Acq On : 12 Feb 2019 14:39
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

Quant Time: Feb 13 03:20:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Feb 13 03:15:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	205293	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	196034	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	109702	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	67646	4.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.00%
7) Chloroethane-d5	1.68	69	62145	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.00%
11) 1,1-Dichloroethene-d2	2.27	63	152646	5.09	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.80%
20) 2-Butanone-d5	4.20	46	149931	52.28	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.56%
24) Chloroform-d	4.65	84	110466	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.80%
26) 1,2-Dichloroethane-d4	5.31	65	58362	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
32) Benzene-d6	5.34	84	235505	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.00%
36) 1,2-Dichloropropane-d6	6.33	67	70579	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.40%
41) Toluene-d8	7.56	98	232999	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
43) trans-1,3-Dichloropropene-	7.85	79	32365	5.20	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	104.00%
46) 2-Hexanone-d5	8.31	63	149118	52.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	104.10%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	61539	5.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	99582	4.92	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	90590	5.039 ug/L	98
3) Chloromethane	1.32	50	84384	4.974 ug/L	99
5) Vinyl chloride	1.40	62	99210	5.018 ug/L	98
6) Bromomethane	1.63	94	71687	6.216 ug/L	98
8) Chloroethane	1.70	64	64887	5.040 ug/L	99
9) Trichlorofluoromethane	1.88	101	154131	5.093 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	91310	5.119 ug/L	98
12) 1,1-Dichloroethene	2.28	96	85773	5.077 ug/L	97
13) Acetone	2.33	43	128931	49.487 ug/L	97
14) Carbon disulfide	2.48	76	286833	5.153 ug/L	99
15) Methyl Acetate	2.62	43	33981	5.091 ug/L	99
16) Methylene chloride	2.70	84	88781	4.676 ug/L	98
17) Methyl tert-butyl Ether	3.00	73	215892	5.104 ug/L	99
18) trans-1,2-Dichloroethene	2.98	96	92042	5.109 ug/L	96
19) 1,1-Dichloroethane	3.44	63	123017	4.533 ug/L	96
21) 2-Butanone	4.28	43	166640	51.762 ug/L	100
22) cis-1,2-Dichloroethene	4.22	96	81589	4.923 ug/L	97

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Quant Time: Feb 13 03:20:21 2019
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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	4.54	128	37840	5.058	ug/L	98
25) Chloroform	4.67	83	137438	5.061	ug/L	96
27) 1,2-Dichloroethane	5.41	62	77876	4.956	ug/L	99
29) 1,1,1-Trichloroethane	4.91	97	120736	4.979	ug/L	99
30) Cyclohexane	4.99	56	115825	4.985	ug/L	100
31) Carbon tetrachloride	5.13	117	109709	5.008	ug/L	99
33) Benzene	5.39	78	287931	4.990	ug/L	100
34) Trichloroethene	6.18	95	81104	4.999	ug/L	97
35) Methylcyclohexane	6.41	83	135119	4.951	ug/L	99
37) 1,2-Dichloropropane	6.43	63	73422	5.080	ug/L	99
38) Bromodichloromethane	6.76	83	95613	5.006	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	115319	5.070	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	413845	49.676	ug/L	99
42) Toluene	7.63	91	326319	5.039	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	93720	5.017	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	55384	5.003	ug/L	95
47) Tetrachloroethene	8.22	164	73283	4.931	ug/L	97
48) 2-Hexanone	8.36	43	301876	49.717	ug/L	99
49) Dibromochloromethane	8.47	129	74793	5.013	ug/L	97
50) 1,2-Dibromoethane	8.59	107	55647	5.079	ug/L	99
51) Chlorobenzene	9.12	112	220969	4.961	ug/L	98
52) Ethylbenzene	9.25	91	362400	4.942	ug/L	100
53) m,p-xylene	9.37	106	144870	4.954	ug/L	99
54) o-xylene	9.77	106	140449	4.893	ug/L	99
55) Styrene	9.79	104	239620	5.028	ug/L	98
56) Isopropylbenzene	10.16	105	376838	4.978	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	67274	4.979	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	46599	5.026	ug/L	93
61) Bromoform	9.95	173	46760	5.035	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	188704	4.856	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	192463	4.959	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	180270	4.923	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	11874	5.183	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	158251	4.908	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	142470	5.245	ug/L	98
69) Naphthalene	13.74	128	239957	5.116	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	129222	4.976	ug/L	99

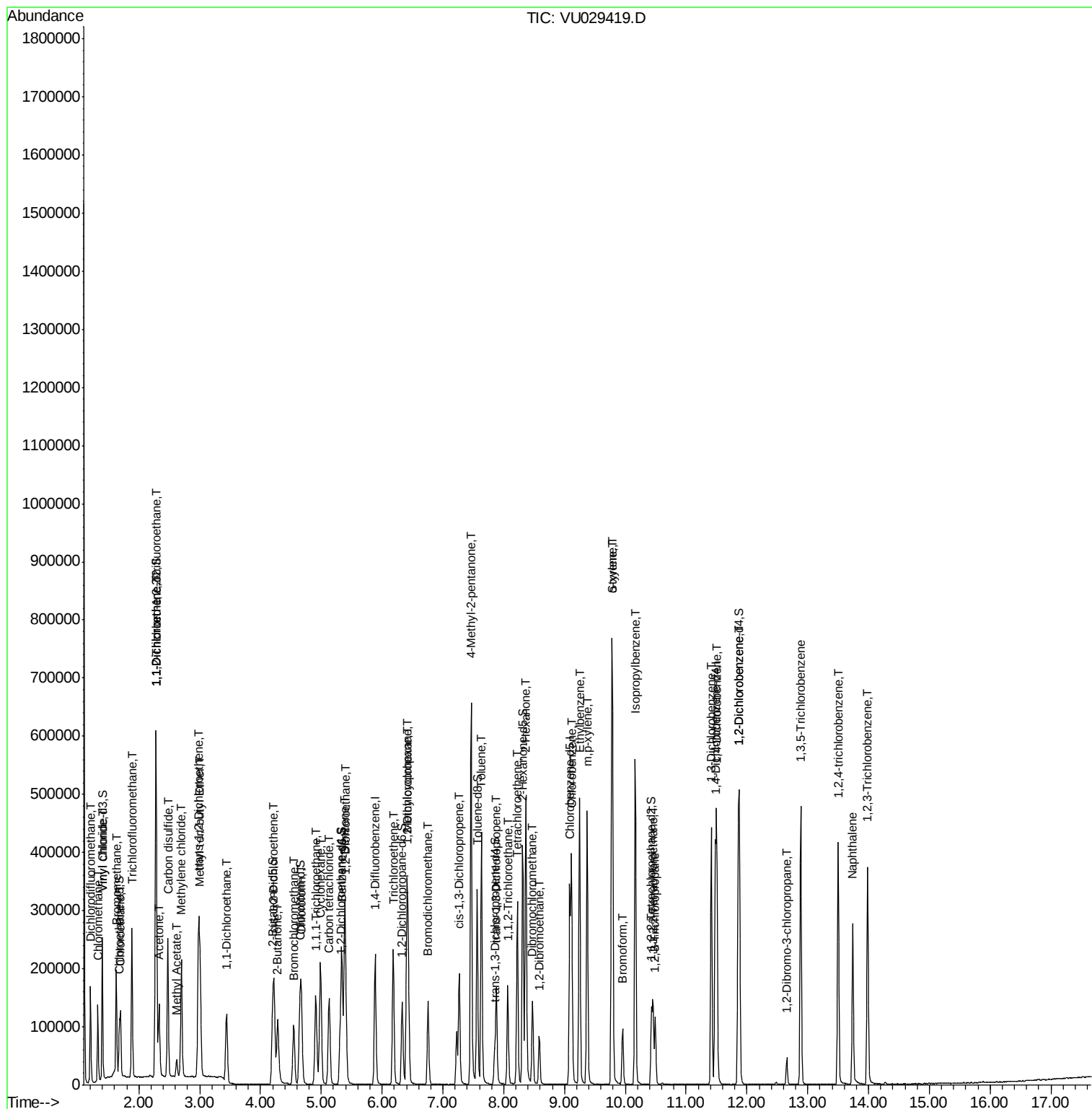
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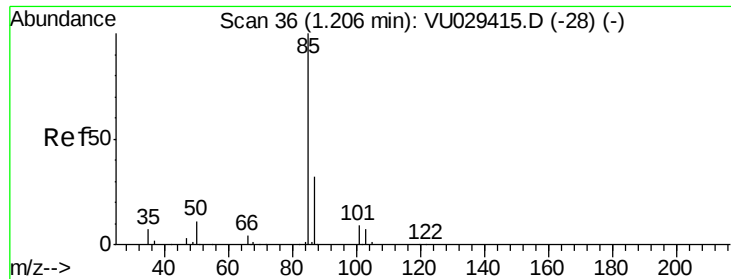
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#2

Dichlorodifluoromethane

Concen: 5.039 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

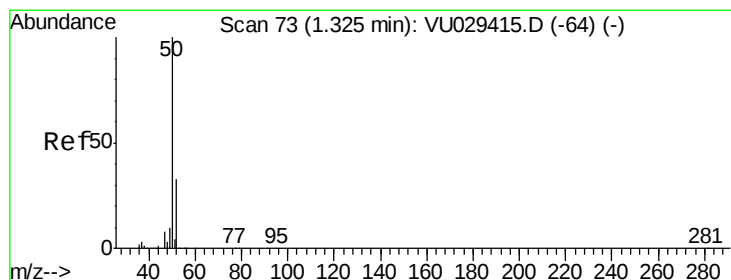
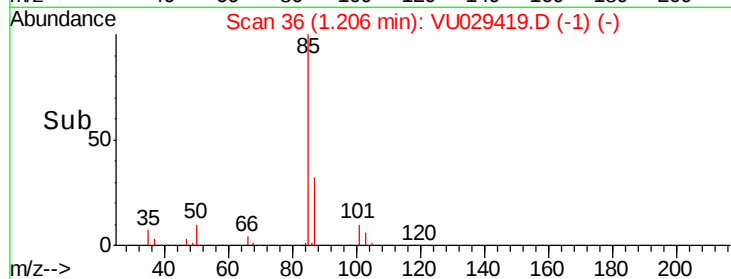
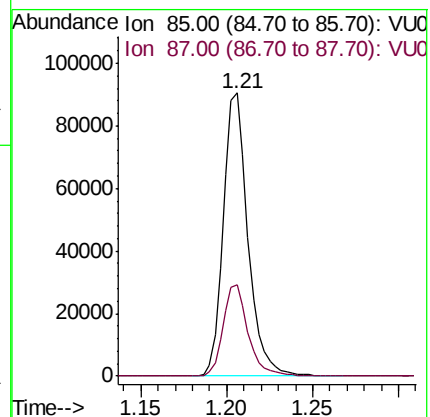
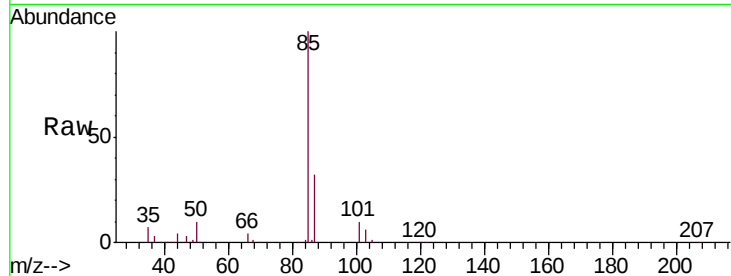
VSTD00551

Tgt Ion: 85 Resp: 90590

Ion Ratio Lower Upper

85 100

87 32.6 25.4 38.0



#3

Chloromethane

Concen: 4.974 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU029419.D

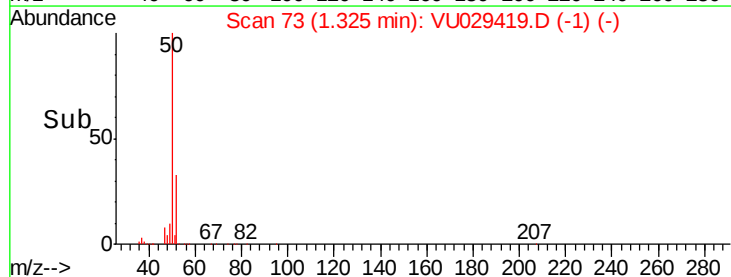
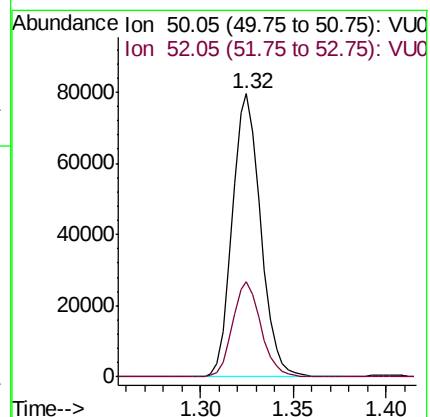
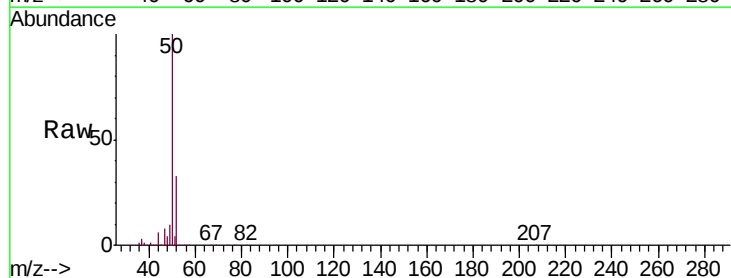
Acq: 12 Feb 2019 14:39

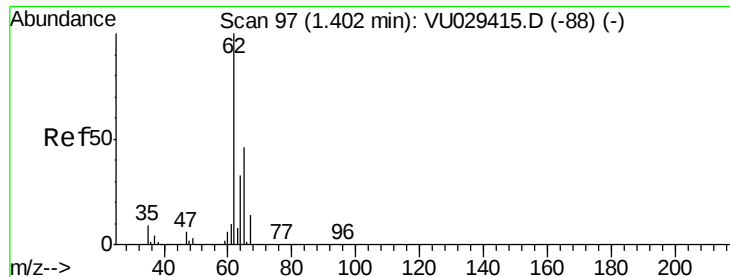
Tgt Ion: 50 Resp: 84384

Ion Ratio Lower Upper

50 100

52 33.5 23.1 42.9





#5

Vinyl chloride

Concen: 5.018 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

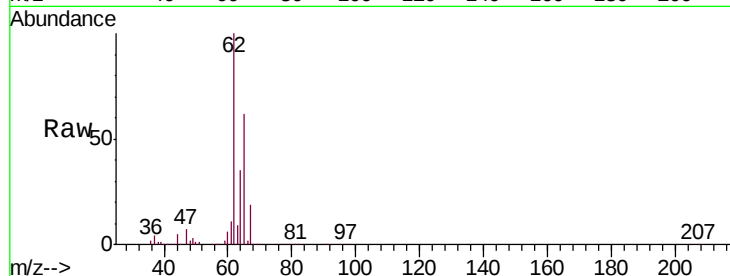
VSTD00551

Tgt Ion: 62 Resp: 99210

Ion Ratio Lower Upper

62 100

64 34.7 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.40

100000

80000

60000

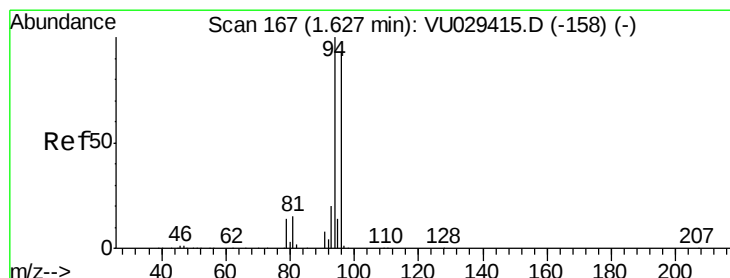
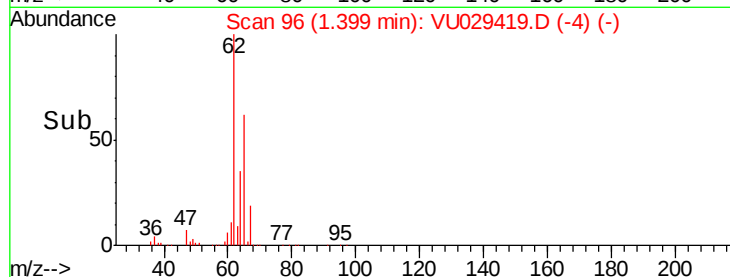
40000

20000

0

1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 6.216 ug/L

RT: 1.63 min Scan# 167

Delta R.T. -0.00 min

Lab File: VU029419.D

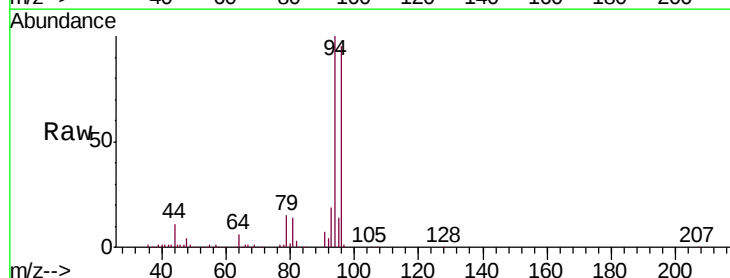
Acq: 12 Feb 2019 14:39

Tgt Ion: 94 Resp: 71687

Ion Ratio Lower Upper

94 100

96 95.4 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.63

60000

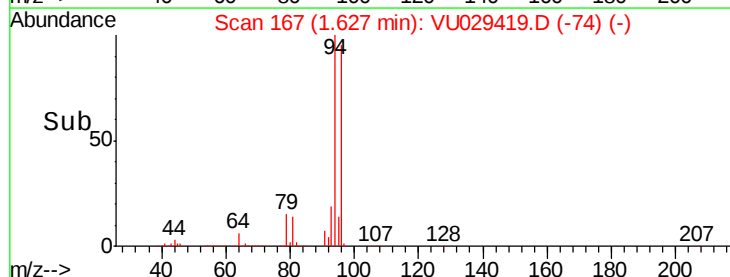
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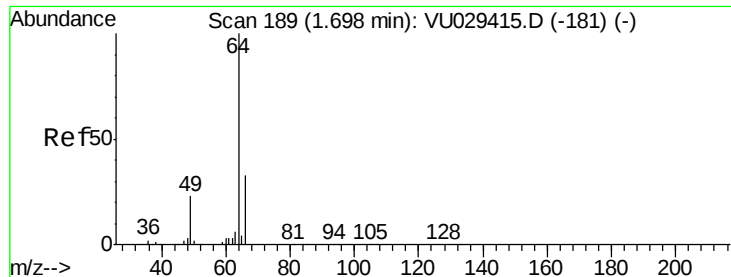
20000

0

1.55 1.60 1.65 1.70

Time-->





#8

Chloroethane

Concen: 5.040 ug/L

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

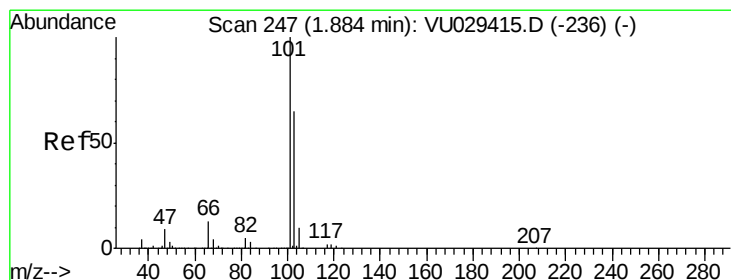
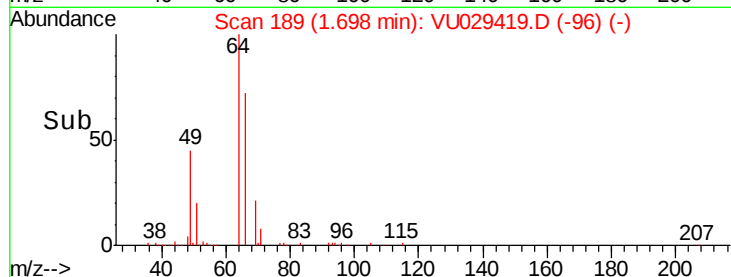
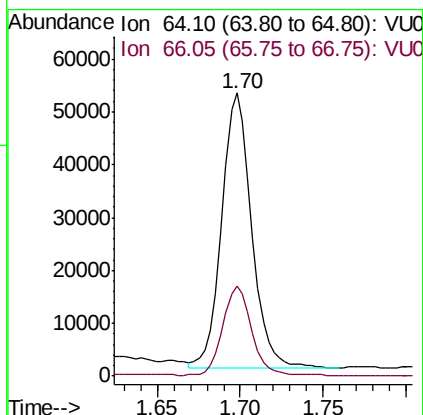
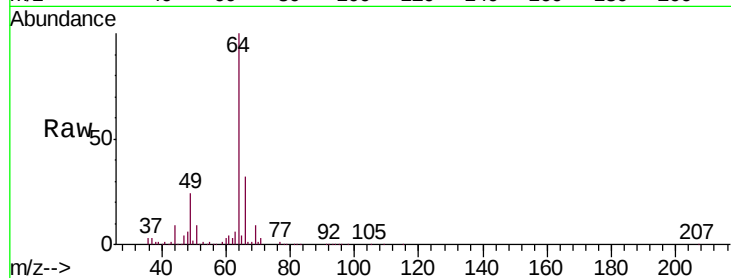
VSTD00551

Tgt Ion: 64 Resp: 64887

Ion Ratio Lower Upper

64 100

66 31.9 22.0 40.8



#9

Trichlorofluoromethane

Concen: 5.093 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU029419.D

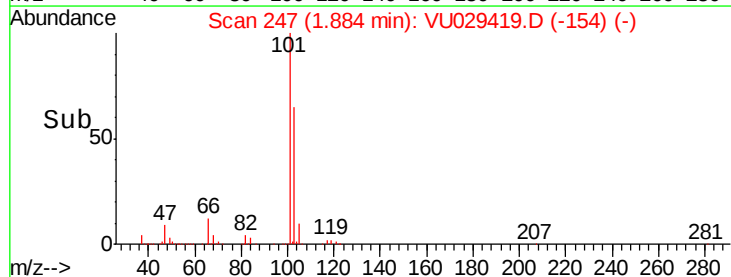
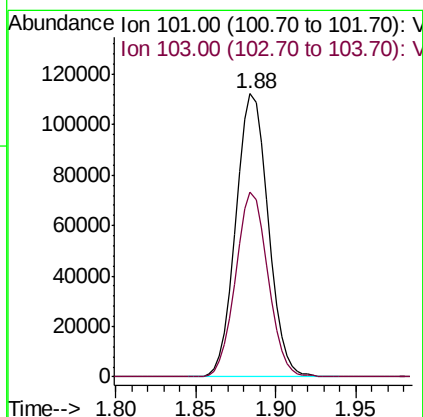
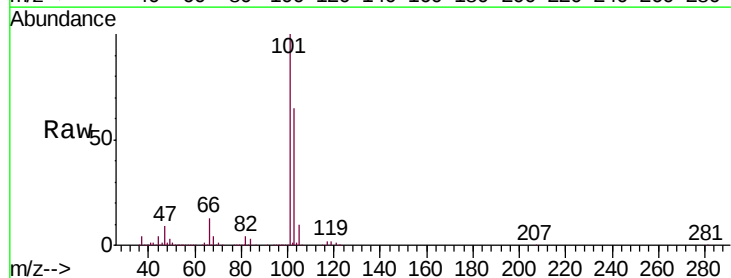
Acq: 12 Feb 2019 14:39

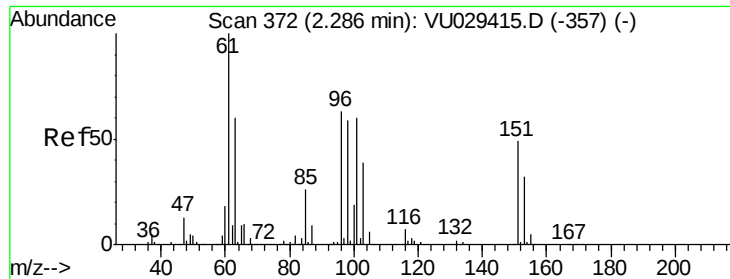
Tgt Ion: 101 Resp: 154131

Ion Ratio Lower Upper

101 100

103 65.2 52.1 78.1





#10

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

Concen: 5.119 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

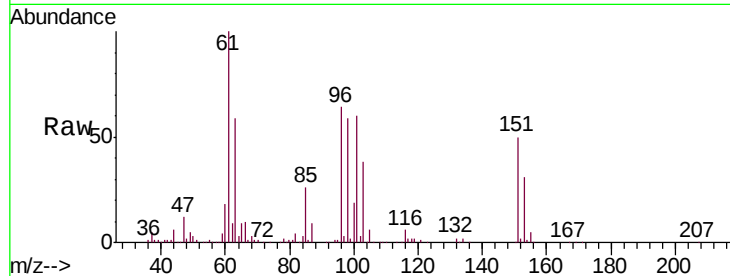
Tgt Ion:101 Resp: 91310

Ion Ratio Lower Upper

101 100

85 42.9 35.1 52.7

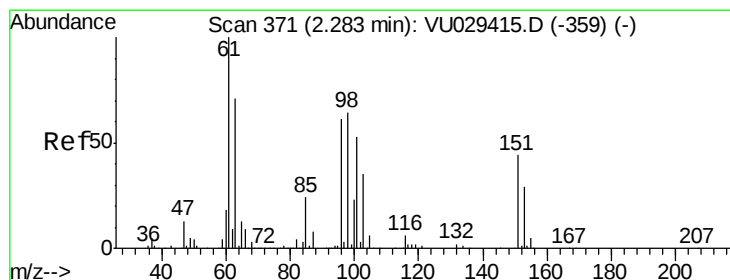
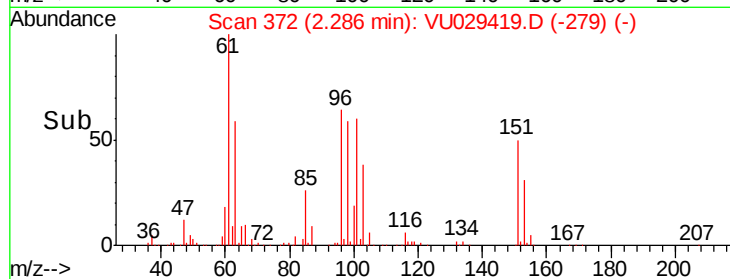
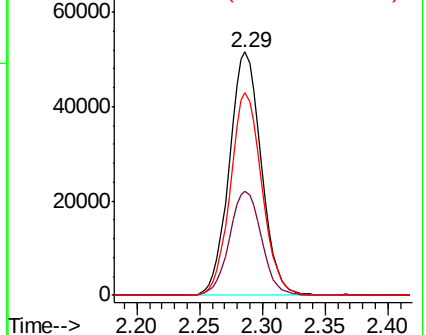
151 82.1 67.0 100.6



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: 5.077 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

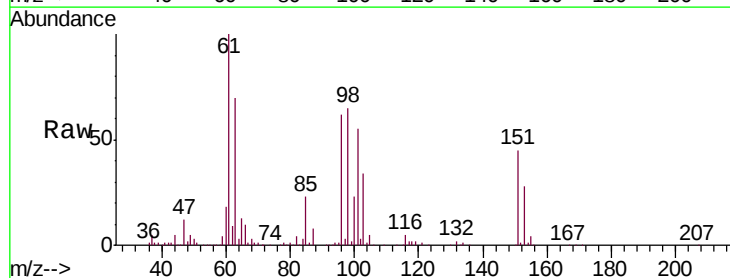
Tgt Ion: 96 Resp: 85773

Ion Ratio Lower Upper

96 100

61 161.5 115.1 213.7

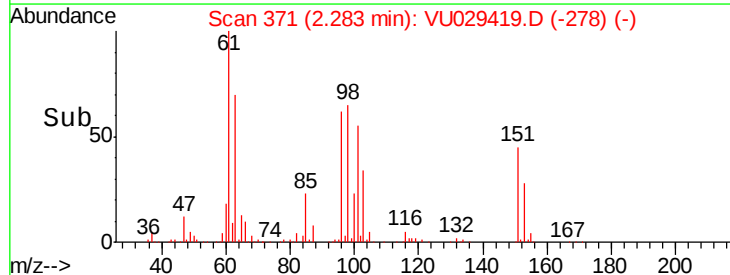
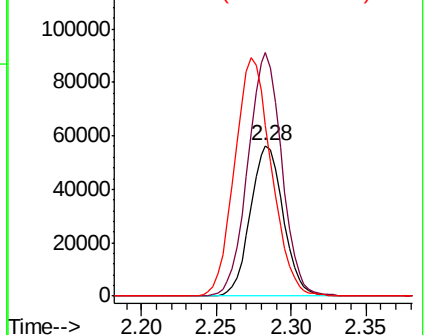
63 113.5 83.5 155.1

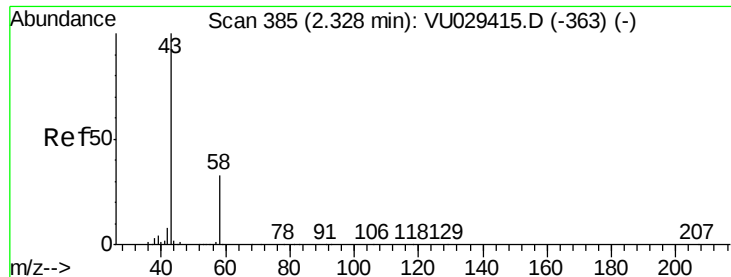


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 49.487 ug/L

RT: 2.33 min Scan# 386

Delta R.T. 0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

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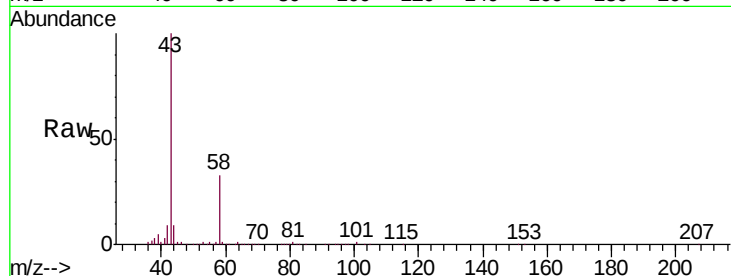
VSTD00551

Tgt Ion: 43 Resp: 128931

Ion Ratio Lower Upper

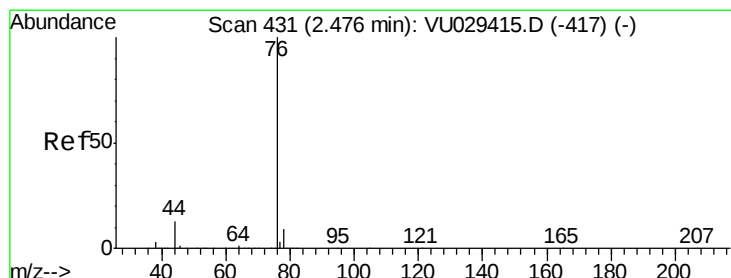
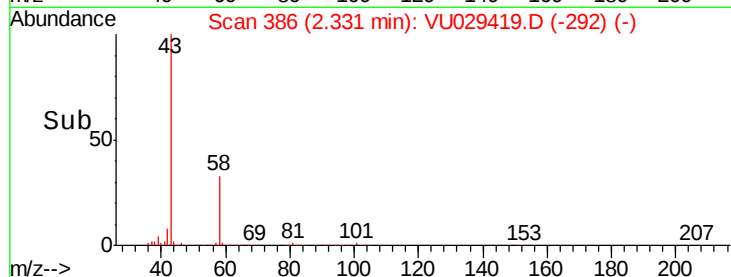
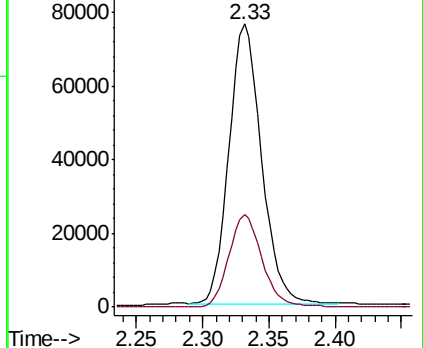
43 100

58 34.5 0.0 65.0



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 5.153 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU029419.D

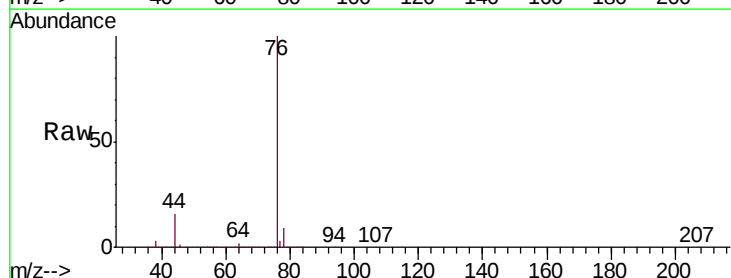
Acq: 12 Feb 2019 14:39

Tgt Ion: 76 Resp: 286833

Ion Ratio Lower Upper

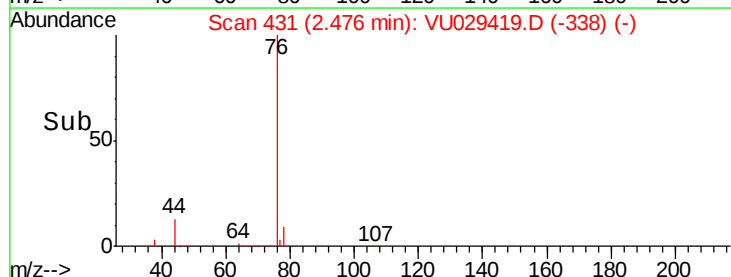
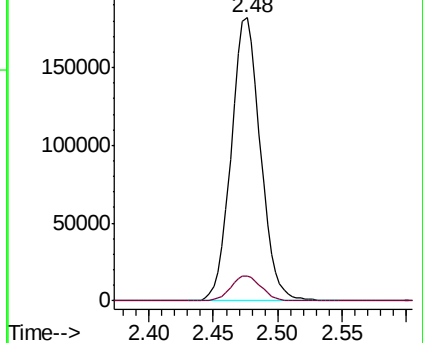
76 100

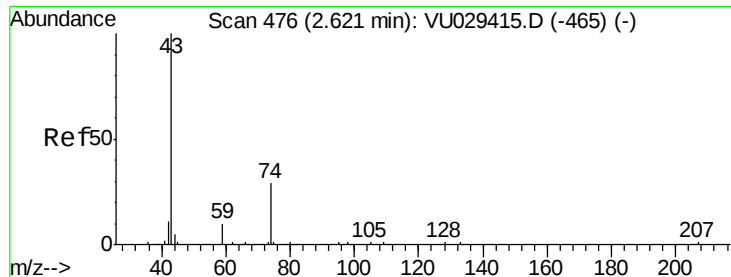
78 8.9 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 5.091 ug/L

RT: 2.62 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

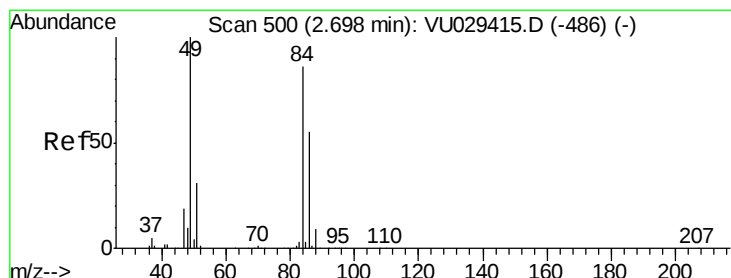
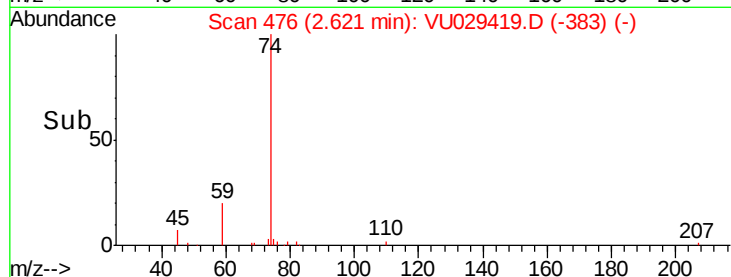
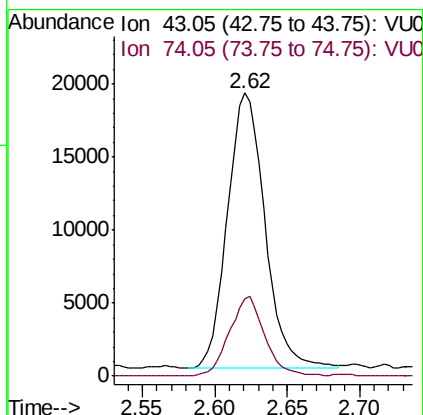
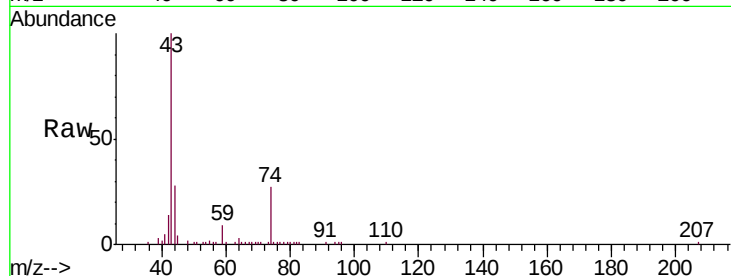
VSTD00551

Tgt Ion: 43 Resp: 33981

Ion Ratio Lower Upper

43 100

74 27.2 22.3 33.5



#16

Methylene chloride

Concen: 4.676 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

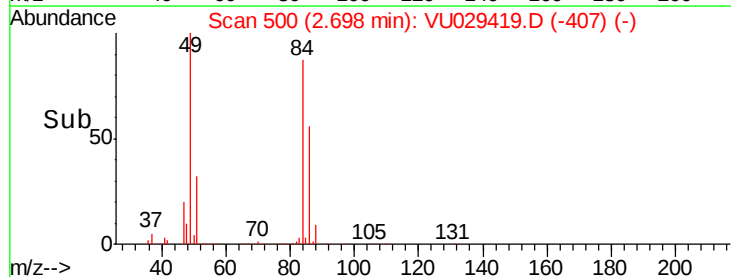
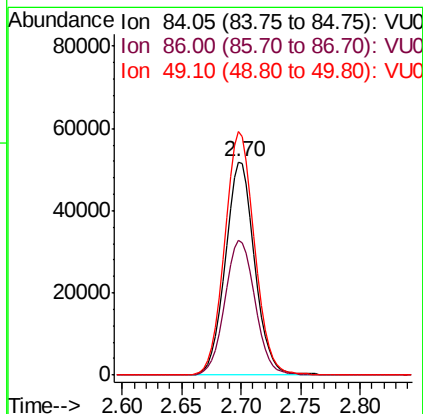
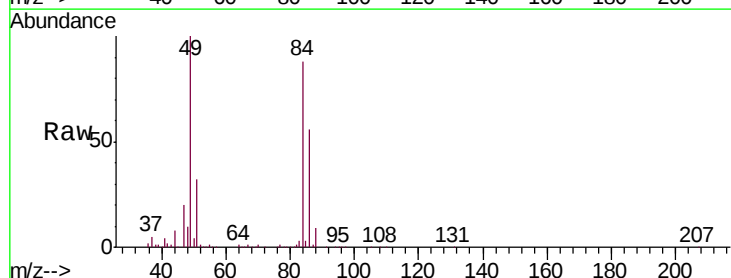
Tgt Ion: 84 Resp: 88781

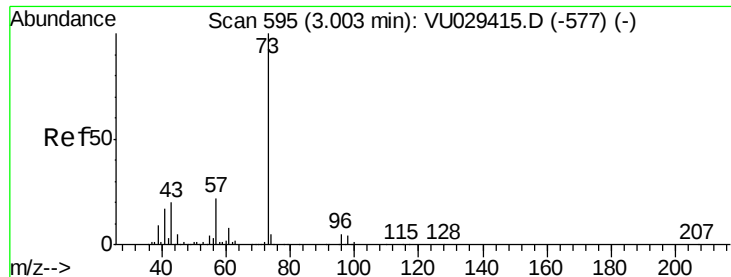
Ion Ratio Lower Upper

84 100

86 63.4 45.1 83.9

49 114.1 81.8 151.8





#17

Methyl tert-butyl Ether

Concen: 5.104 ug/L

RT: 3.00 min Scan# 595

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

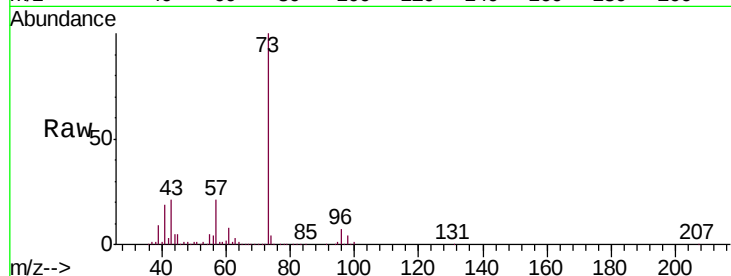
Tgt Ion: 73 Resp: 215892

Ion Ratio Lower Upper

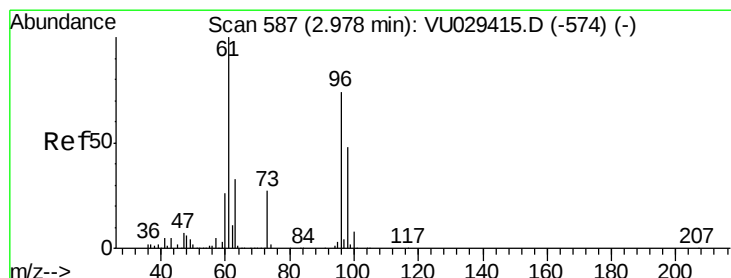
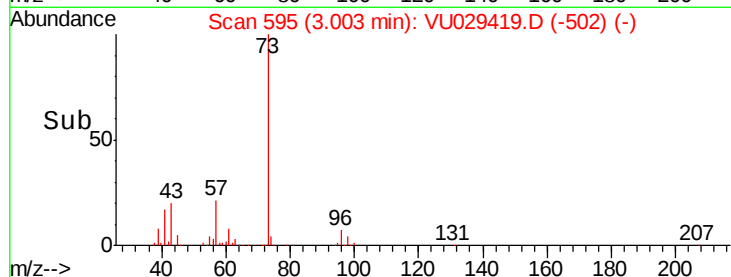
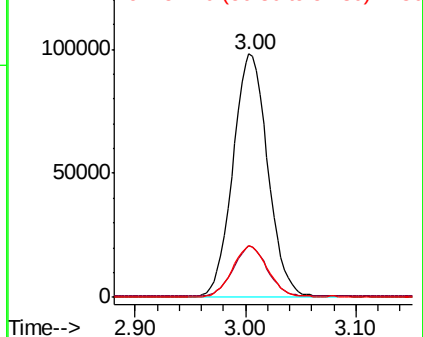
73 100

43 19.9 16.0 24.0

57 20.6 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: 5.109 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

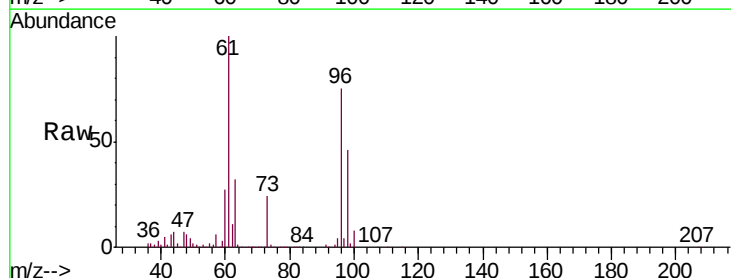
Tgt Ion: 96 Resp: 92042

Ion Ratio Lower Upper

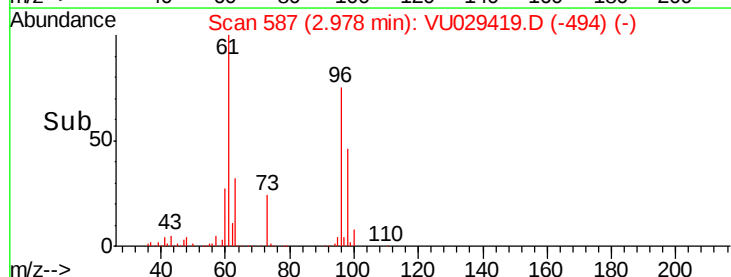
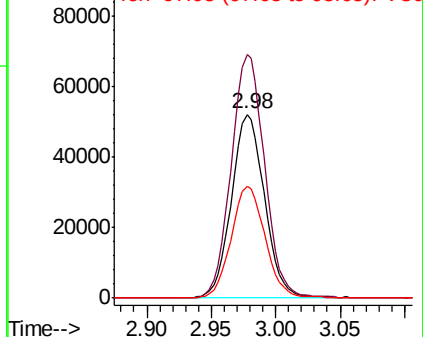
96 100

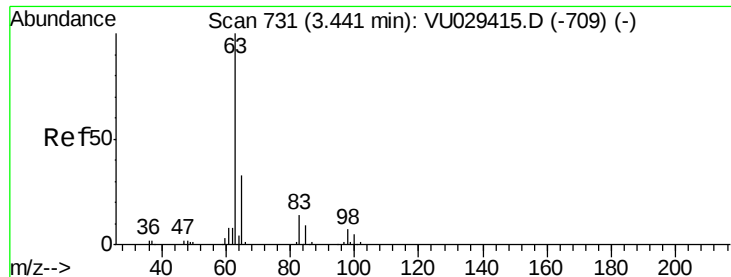
61 132.5 95.4 177.2

98 60.9 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: 4.533 ug/L

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

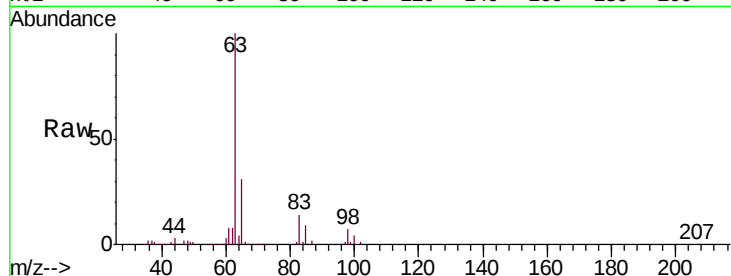
Tgt Ion: 63 Resp: 123017

Ion Ratio Lower Upper

63 100

65 30.5 23.5 43.7

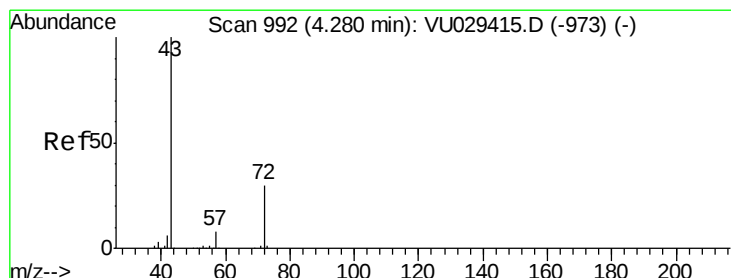
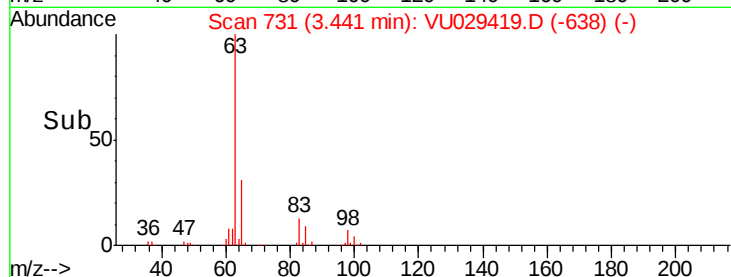
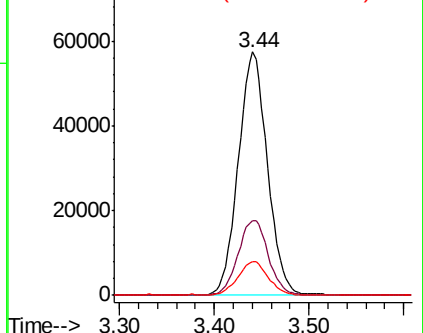
83 13.8 10.3 19.1



Abundance Ion 63.10 (62.80 to 63.80): VU029419.D (-638) (-)

Ion 65.10 (64.80 to 65.80): VU029419.D (-638) (-)

Ion 83.05 (82.75 to 83.75): VU029419.D (-638) (-)



#21

2-Butanone

Concen: 51.762 ug/L

RT: 4.28 min Scan# 993

Delta R.T. 0.00 min

Lab File: VU029419.D

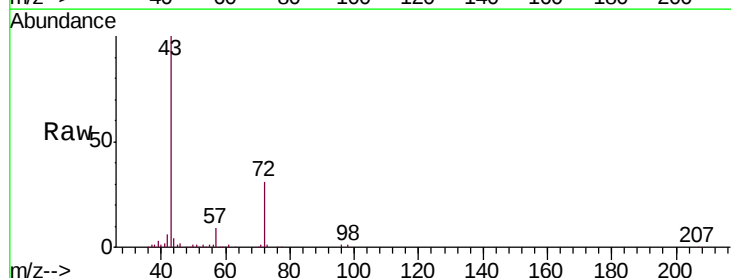
Acq: 12 Feb 2019 14:39

Tgt Ion: 43 Resp: 166640

Ion Ratio Lower Upper

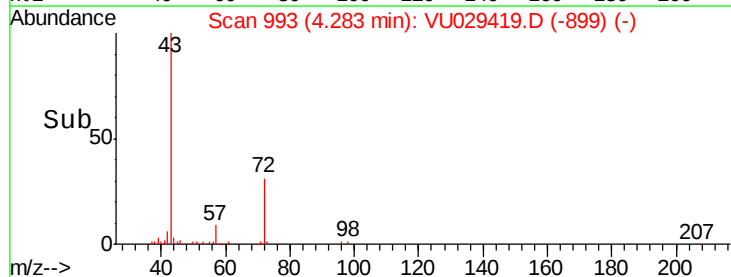
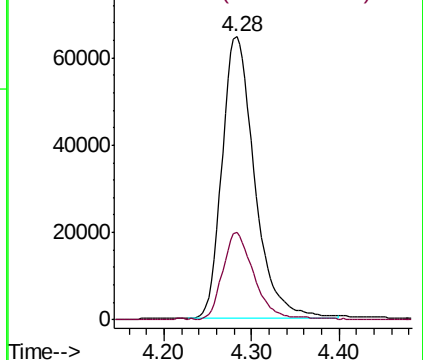
43 100

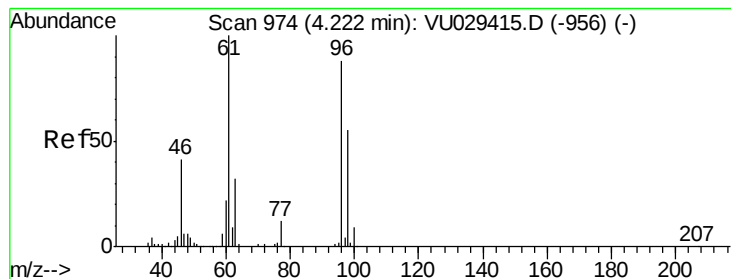
72 29.1 14.7 44.1



Abundance Ion 43.05 (42.75 to 43.75): VU029419.D (-899) (-)

Ion 72.10 (71.80 to 72.80): VU029419.D (-899) (-)



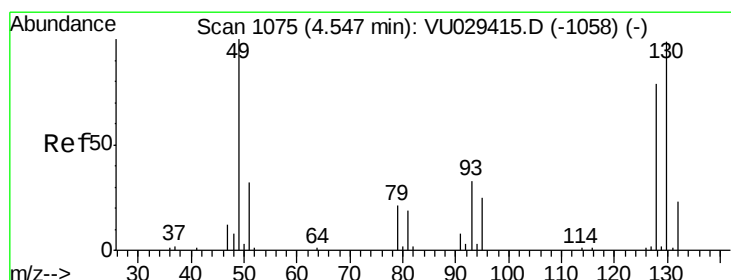
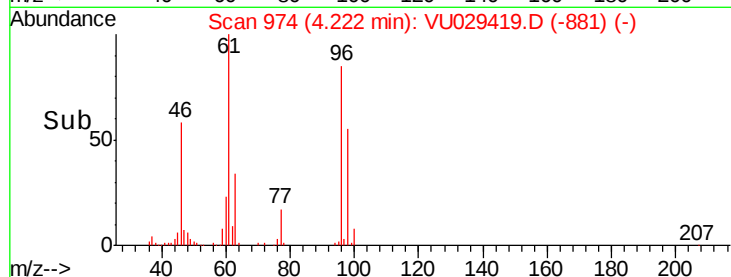
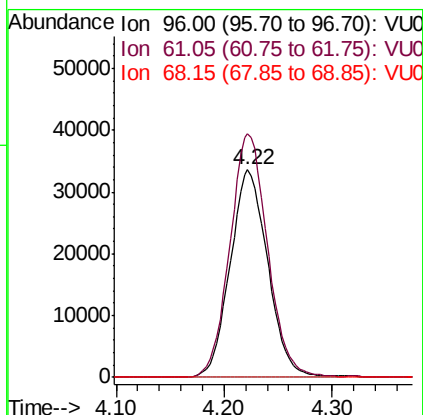
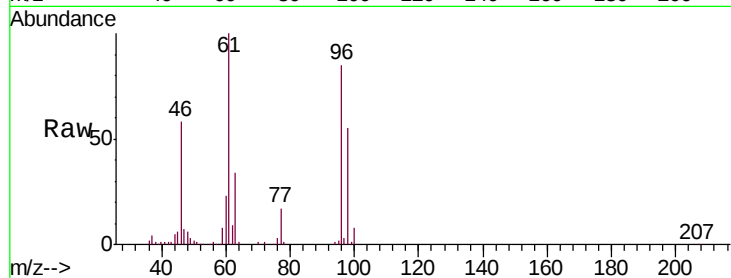


#22

cis-1,2-Dichloroethene
Concen: 4.923 ug/L
RT: 4.22 min Scan# 974
Delta R.T. -0.00 min
Lab File: VU029419.D
Acq: 12 Feb 2019 14:39

Instrument :
MSVOA_U
ClientSampled :
VSTD00551

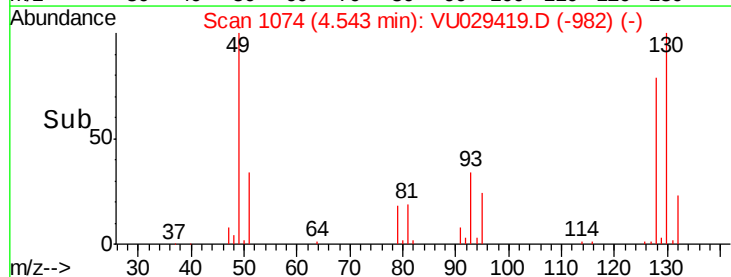
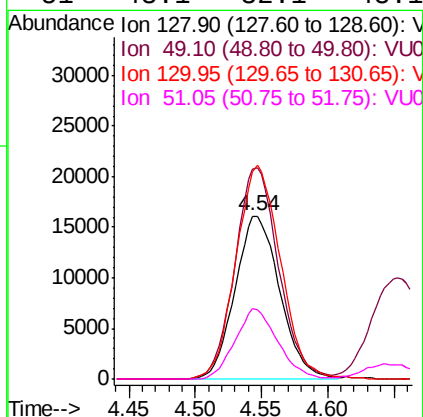
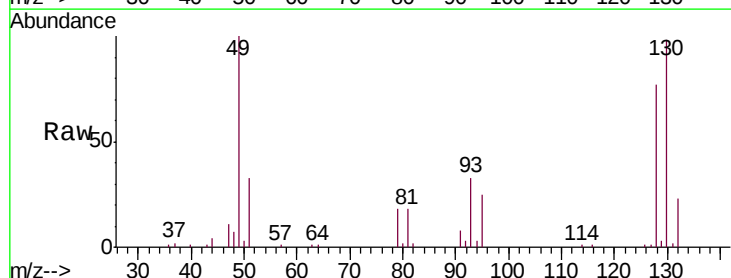
Tgt Ion: 96 Resp: 81589
Ion Ratio Lower Upper
96 100
61 117.5 79.9 148.5
68 0.0 0.0 0.0

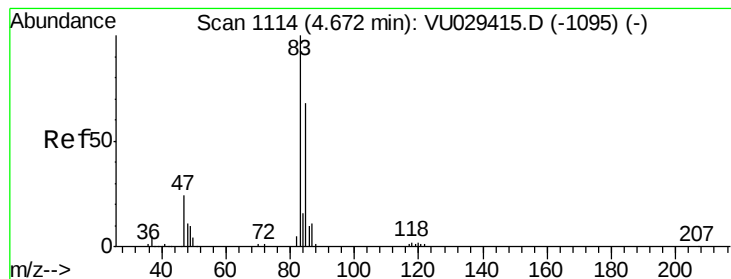


#23

Bromochloromethane
Concen: 5.058 ug/L
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VU029419.D
Acq: 12 Feb 2019 14:39

Tgt Ion: 128 Resp: 37840
Ion Ratio Lower Upper
128 100
49 129.4 89.0 165.4
130 127.3 88.0 163.4
51 43.1 32.1 48.1





#25

Chloroform

Concen: 5.061 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

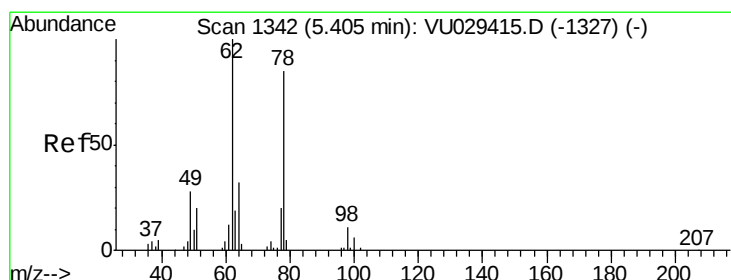
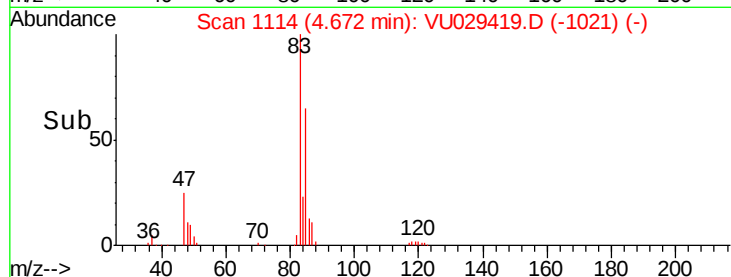
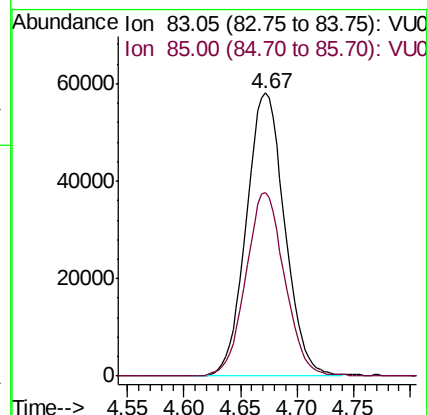
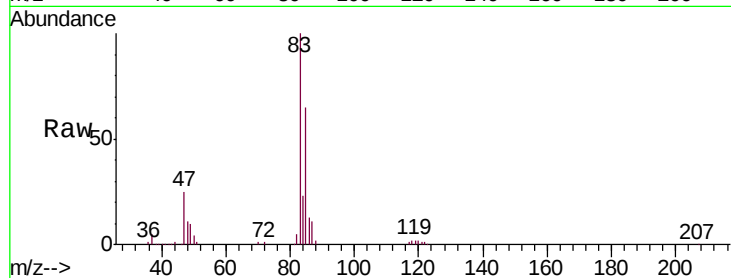
VSTD00551

Tgt Ion: 83 Resp: 137438

Ion Ratio Lower Upper

83 100

85 65.0 47.8 88.8



#27

1,2-Dichloroethane

Concen: 4.956 ug/L

RT: 5.41 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VU029419.D

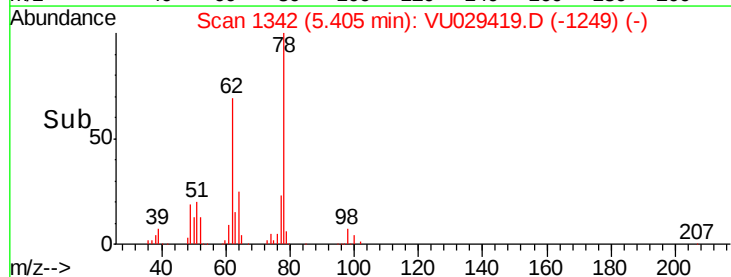
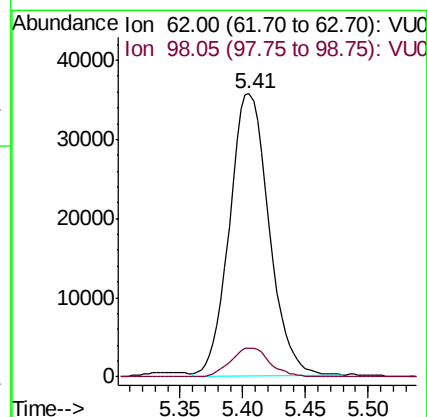
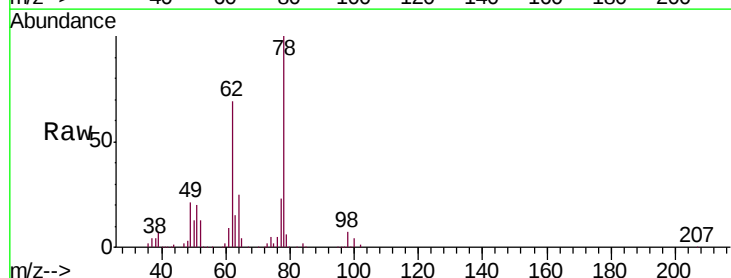
Acq: 12 Feb 2019 14:39

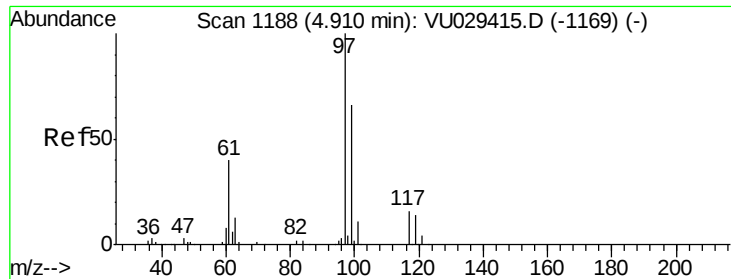
Tgt Ion: 62 Resp: 77876

Ion Ratio Lower Upper

62 100

98 10.3 8.4 12.6

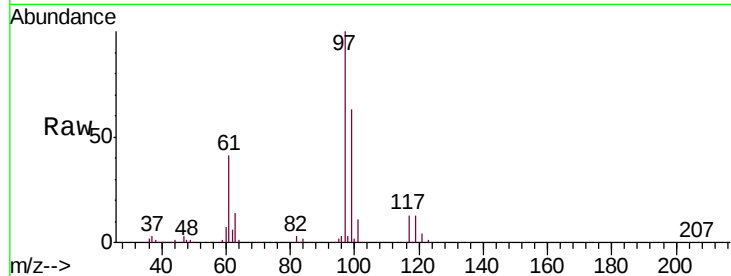




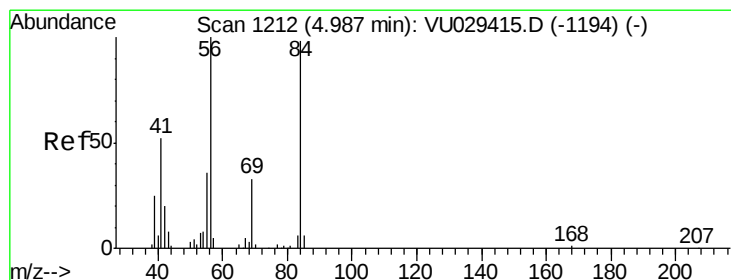
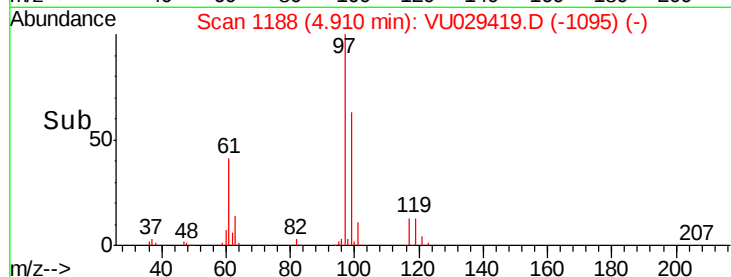
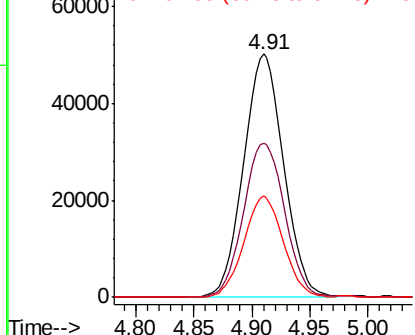
#29
 1,1,1-Trichloroethane
 Concen: 4.979 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tgt Ion: 97 Resp: 120736
 Ion Ratio Lower Upper
 97 100
 99 65.1 52.2 78.2
 61 41.0 32.0 48.0

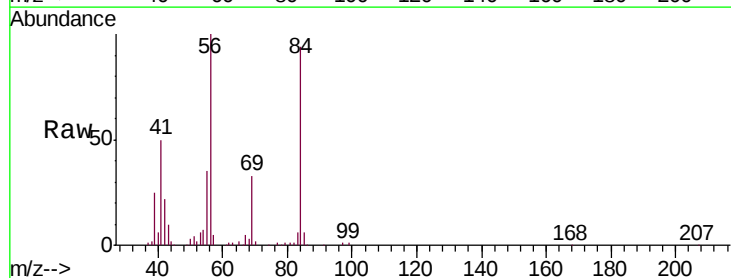


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

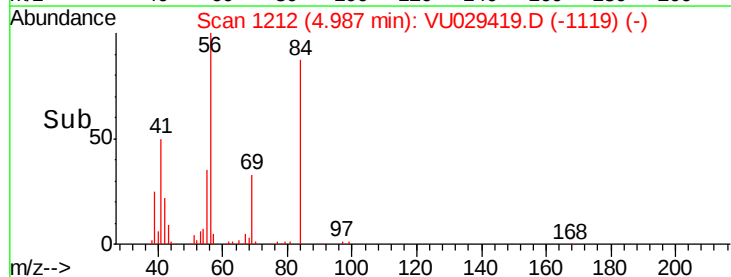
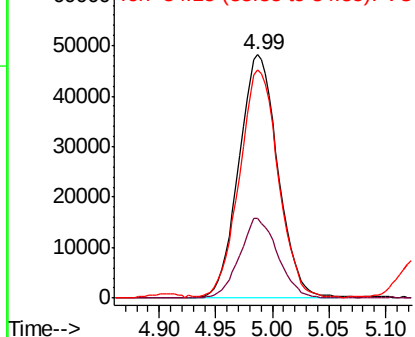


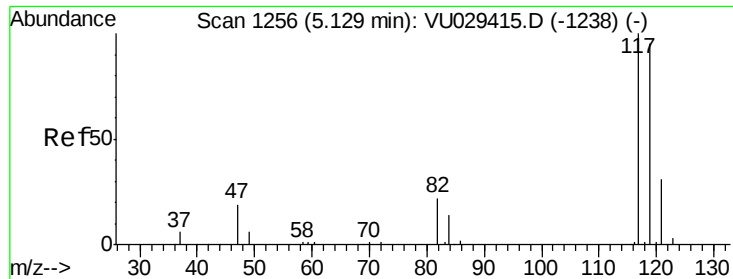
#30
 Cyclohexane
 Concen: 4.985 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Tgt Ion: 56 Resp: 115825
 Ion Ratio Lower Upper
 56 100
 69 32.1 25.8 38.6
 84 93.3 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

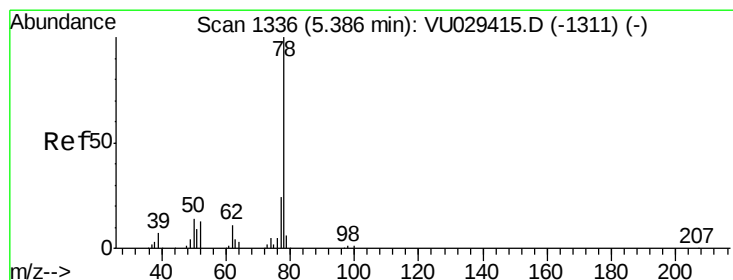
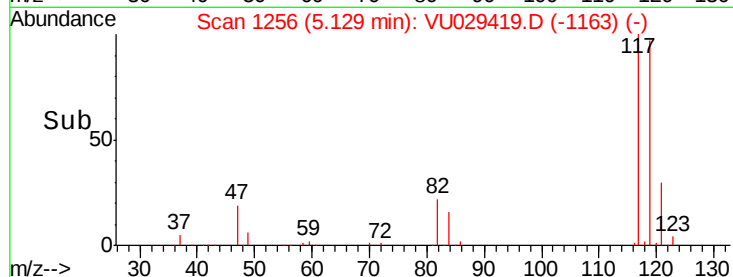
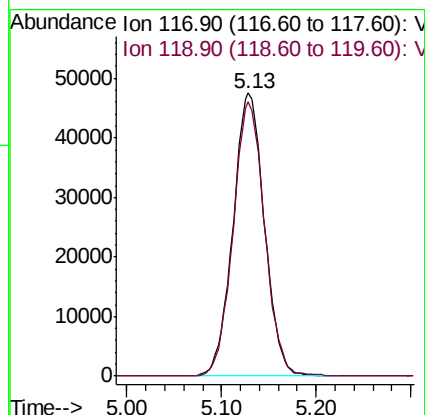
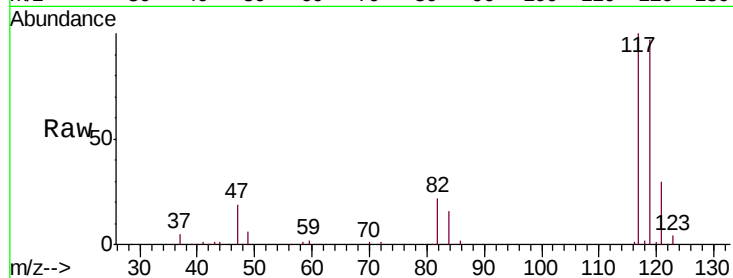




#31
Carbon tetrachloride
Concen: 5.008 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VU029419.D
Acq: 12 Feb 2019 14:39

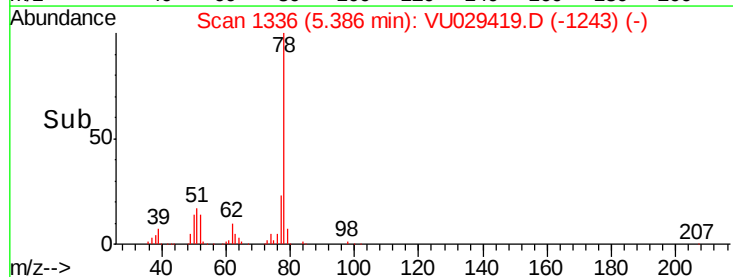
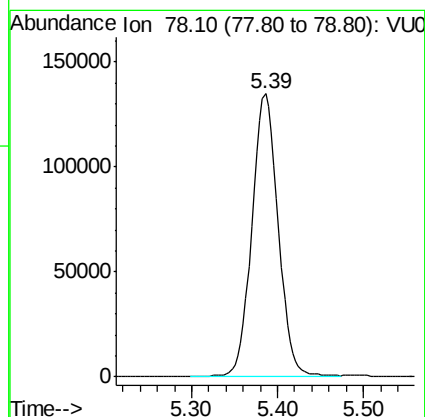
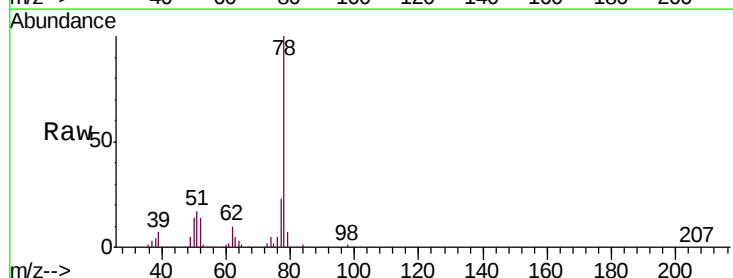
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

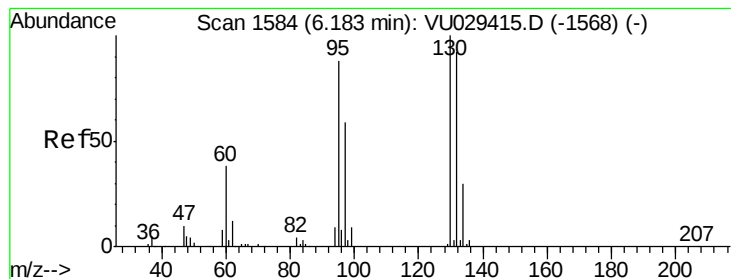
Tgt Ion:117 Resp: 109709
Ion Ratio Lower Upper
117 100
119 96.9 78.1 117.1



#33
Benzene
Concen: 4.990 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VU029419.D
Acq: 12 Feb 2019 14:39

Tgt Ion: 78 Resp: 287931





#34

Trichloroethene

Concen: 4.999 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

Tgt Ion: 95 Resp: 81104

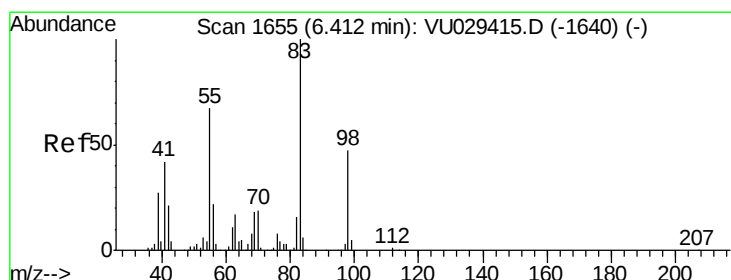
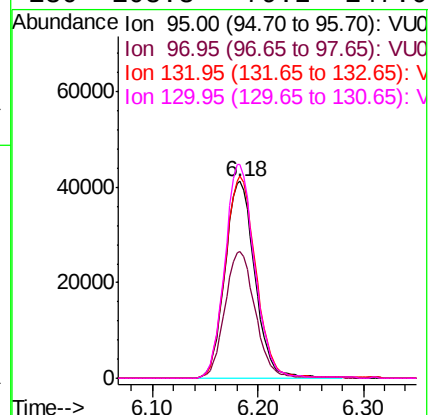
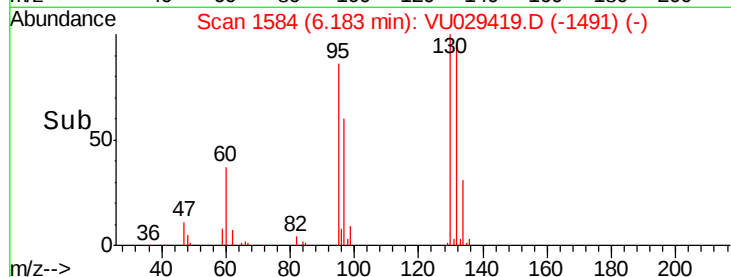
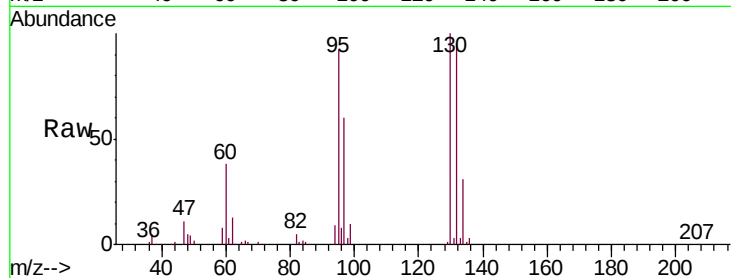
Ion Ratio Lower Upper

95 100

97 64.7 46.3 86.1

132 102.9 72.9 135.3

130 108.3 79.2 147.0



#35

Methylcyclohexane

Concen: 4.951 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

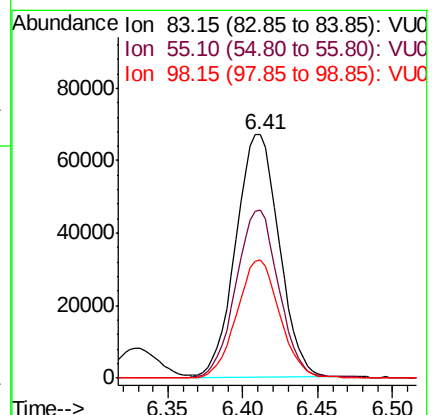
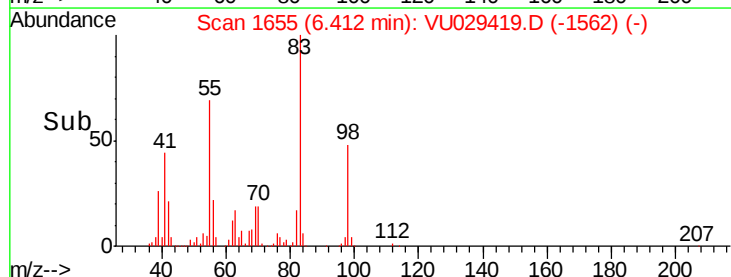
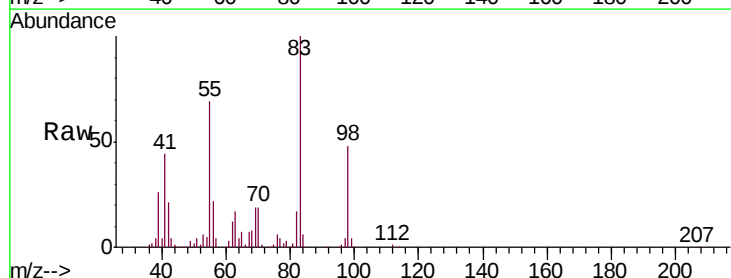
Tgt Ion: 83 Resp: 135119

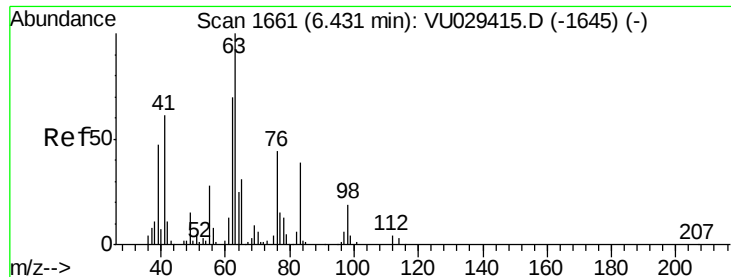
Ion Ratio Lower Upper

83 100

55 69.1 55.9 83.9

98 48.3 38.6 57.8





#37

1,2-Dichloropropane

Concen: 5.080 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

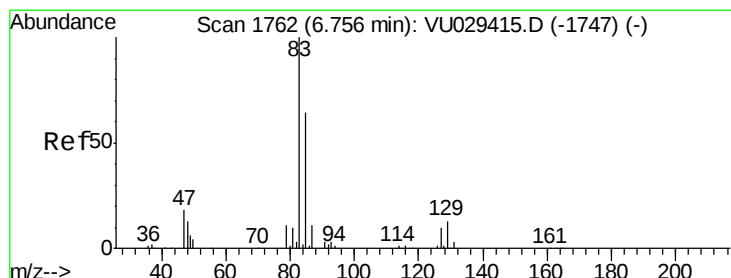
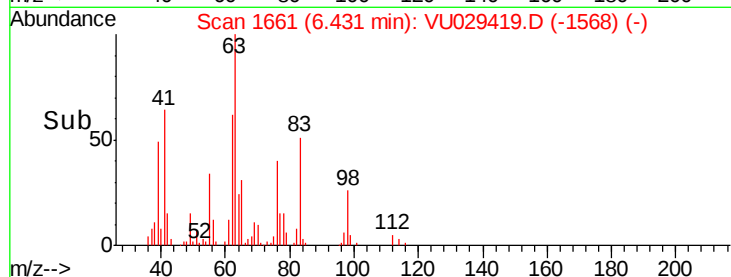
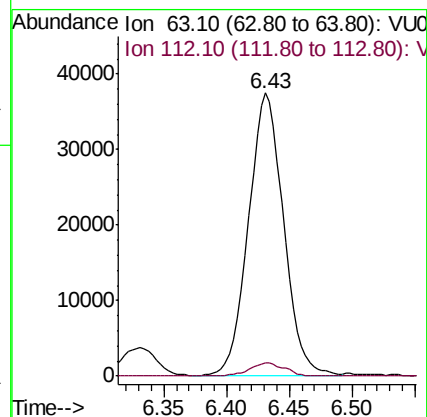
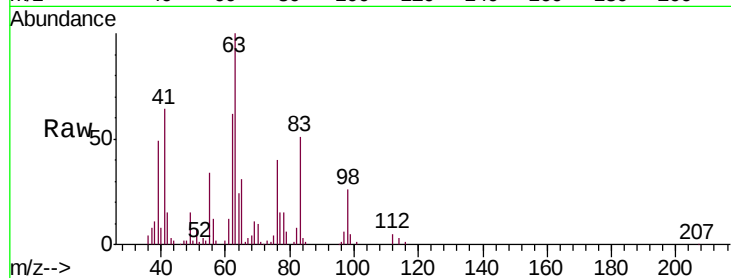
VSTD00551

Tgt Ion: 63 Resp: 73422

Ion Ratio Lower Upper

63 100

112 4.6 3.5 5.3



#38

Bromodichloromethane

Concen: 5.006 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

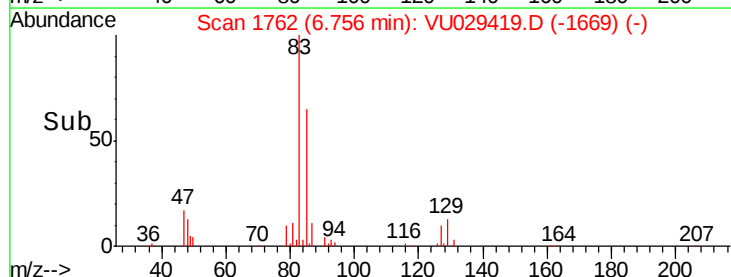
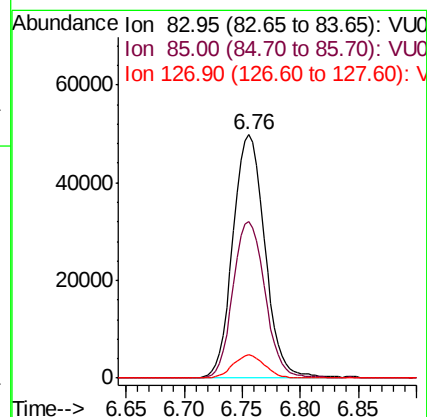
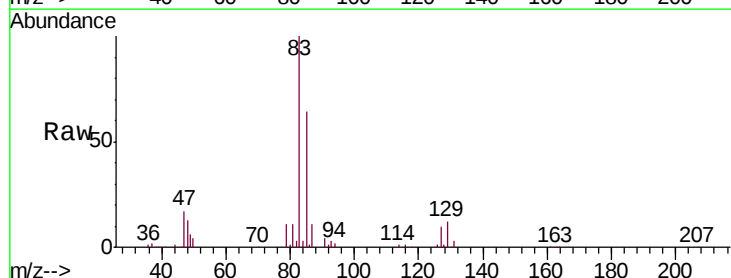
Tgt Ion: 83 Resp: 95613

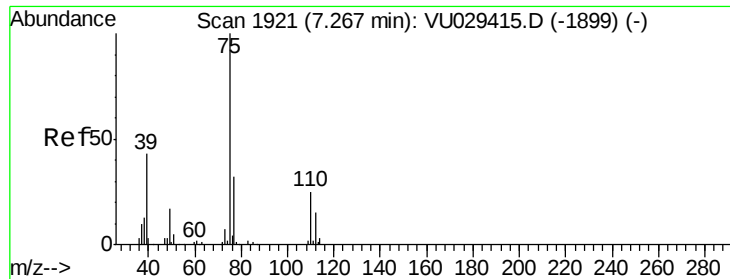
Ion Ratio Lower Upper

83 100

85 64.4 45.1 83.7

127 9.6 7.8 11.8



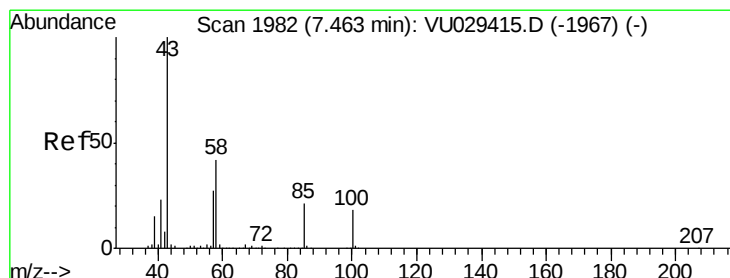
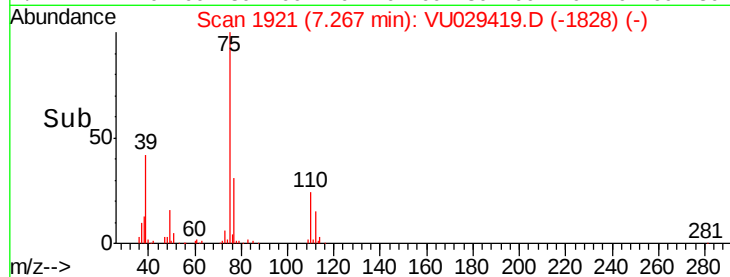
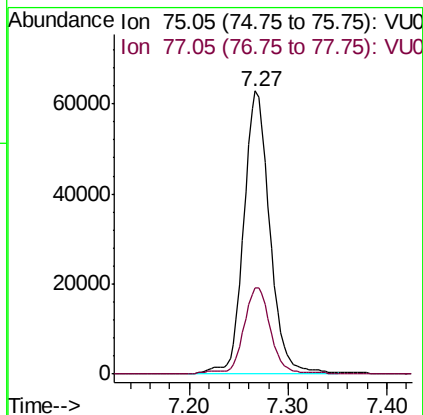
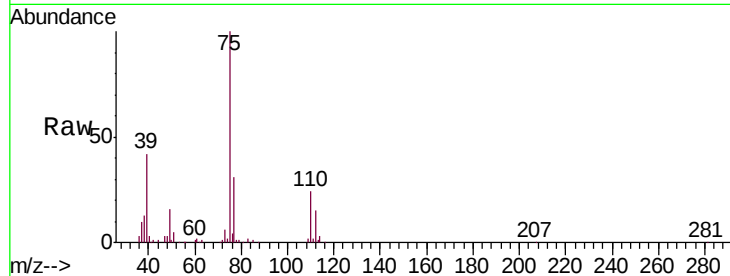


#39

cis-1,3-Dichloropropene
 Concen: 5.070 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

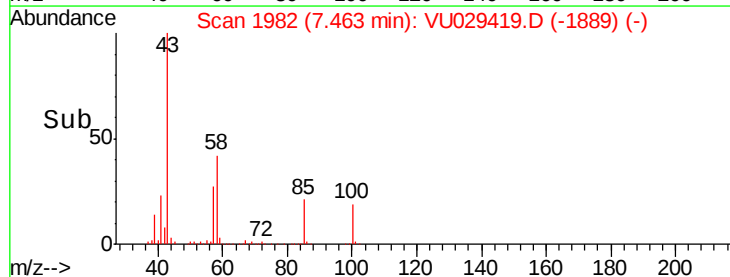
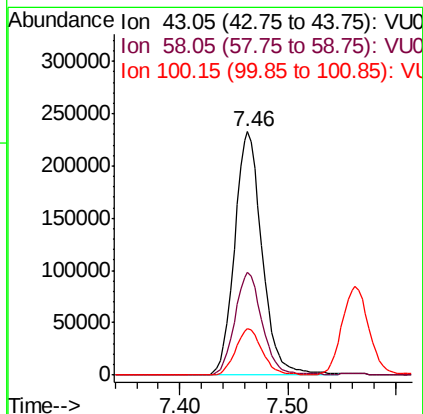
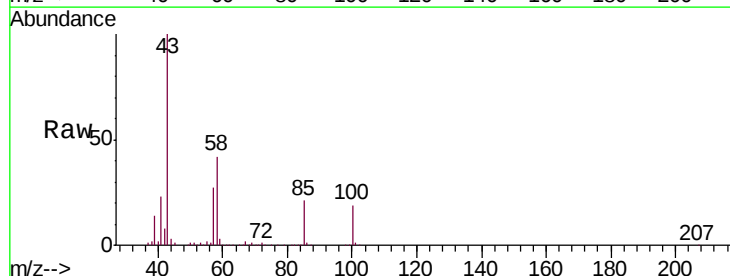
Tgt Ion: 75 Resp: 115319
 Ion Ratio Lower Upper
 75 100
 77 30.7 22.3 41.3

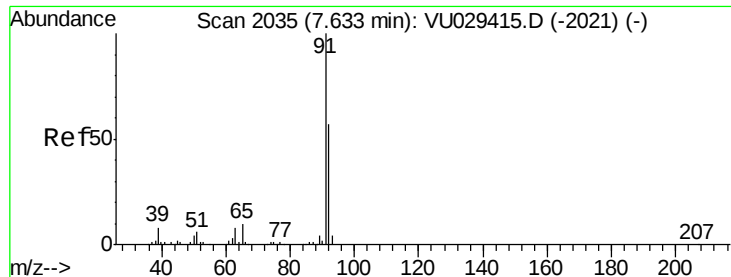


#40

4-Methyl-2-pentanone
 Concen: 49.676 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Tgt Ion: 43 Resp: 413845
 Ion Ratio Lower Upper
 43 100
 58 42.0 33.4 50.2
 100 18.6 14.4 21.6





#42

Toluene

Concen: 5.039 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

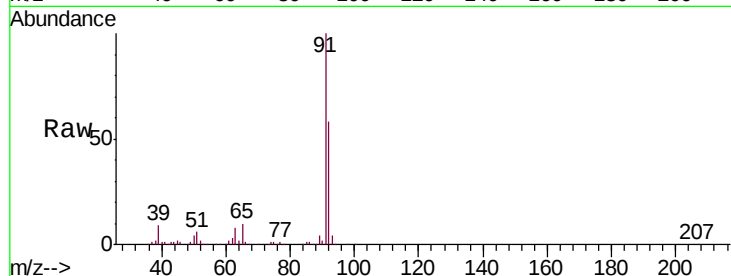
VSTD00551

Tgt Ion: 91 Resp: 326319

Ion Ratio Lower Upper

91 100

92 58.1 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.63

200000

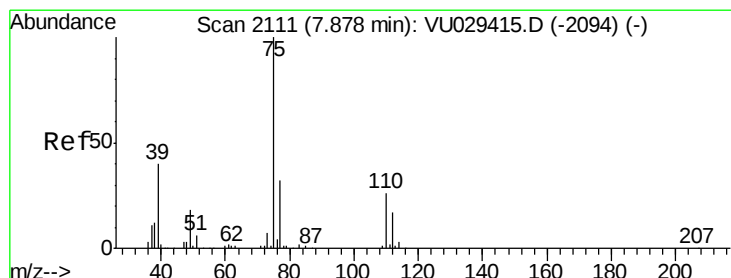
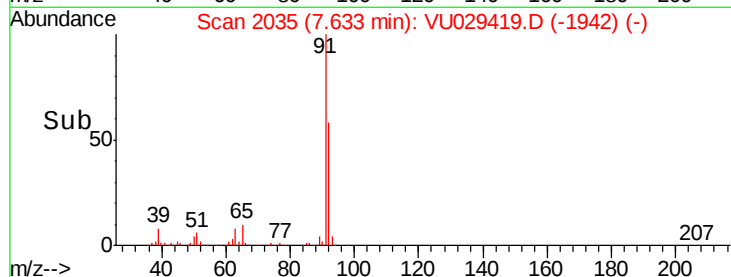
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#44

trans-1,3-Dichloropropene

Concen: 5.017 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU029419.D

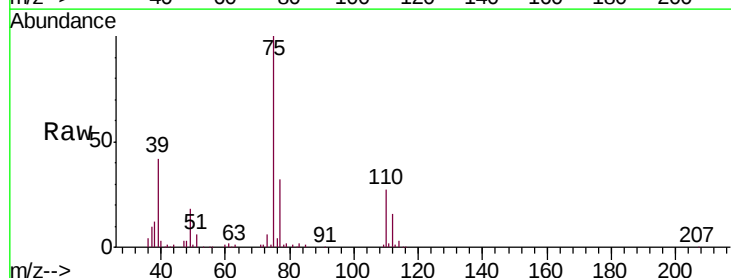
Acq: 12 Feb 2019 14:39

Tgt Ion: 75 Resp: 93720

Ion Ratio Lower Upper

75 100

77 32.0 22.2 41.2



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

7.88

60000

50000

40000

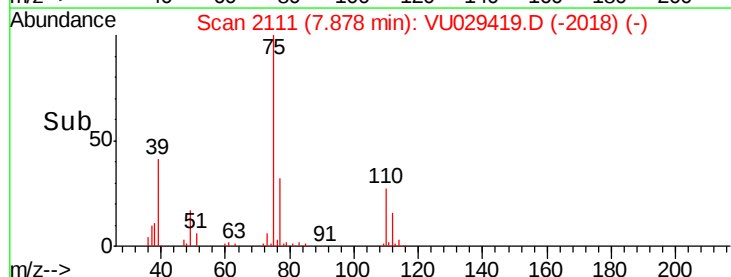
30000

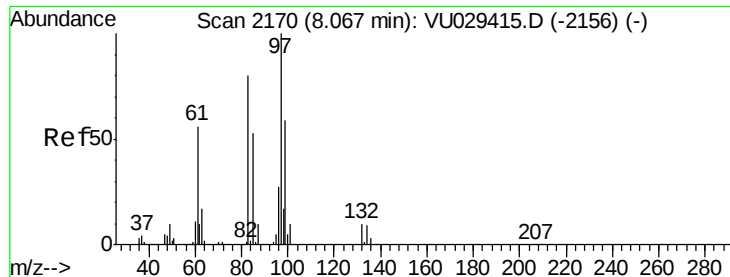
20000

10000

0

Time--> 7.80 7.90 8.00

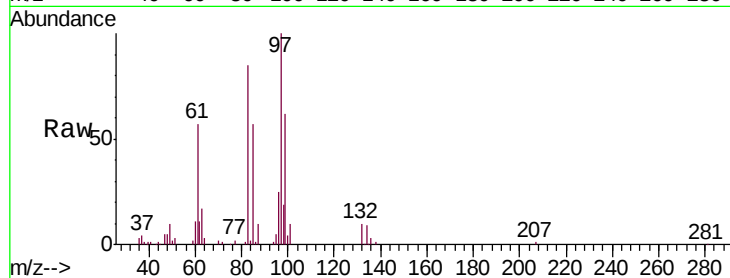




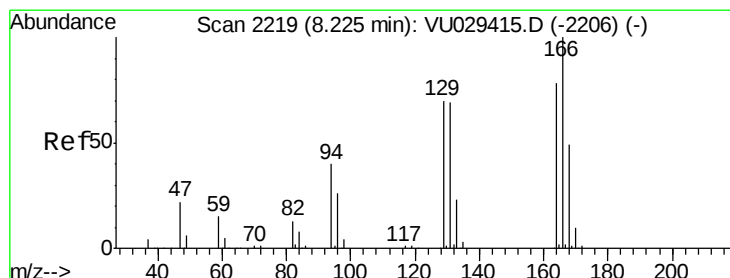
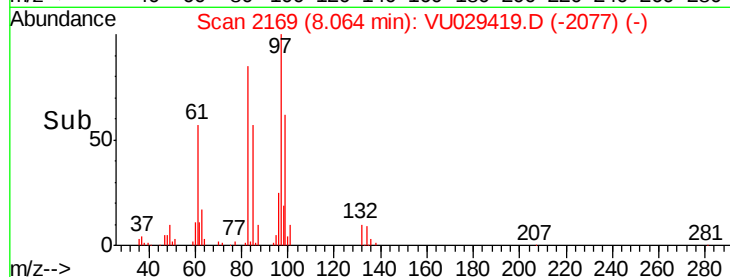
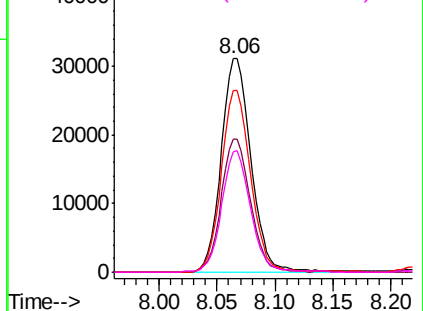
#45
 1,1,2-Trichloroethane
 Concen: 5.003 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD00551

Tgt Ion:	97	Resp:	55384
Ion	Ratio	Lower	Upper
97	100		
99	62.2	41.6	77.2
83	85.3	55.8	103.6
85	56.6	37.2	69.0

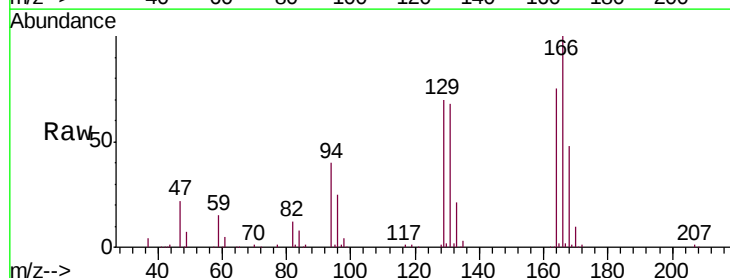


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

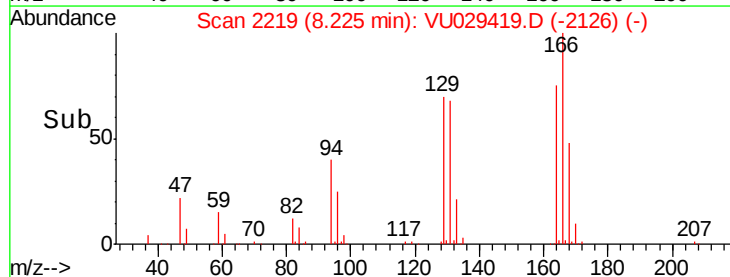
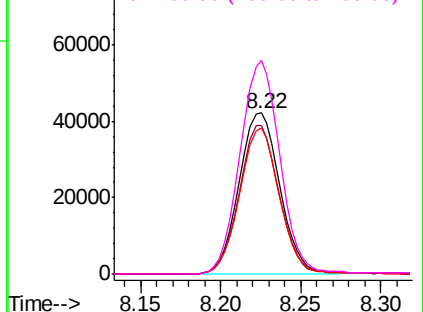


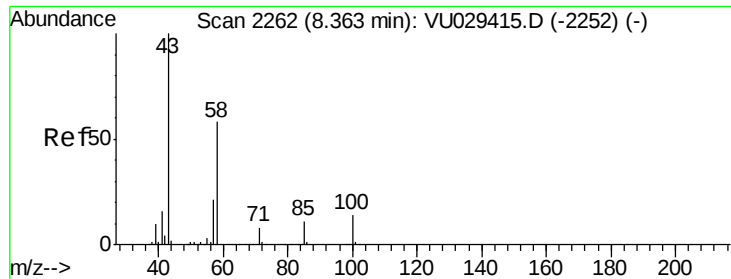
#47
 Tetrachloroethene
 Concen: 4.931 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Tgt Ion:	164	Resp:	73283
Ion	Ratio	Lower	Upper
164	100		
129	92.3	62.9	116.9
131	90.8	62.1	115.3
166	132.8	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

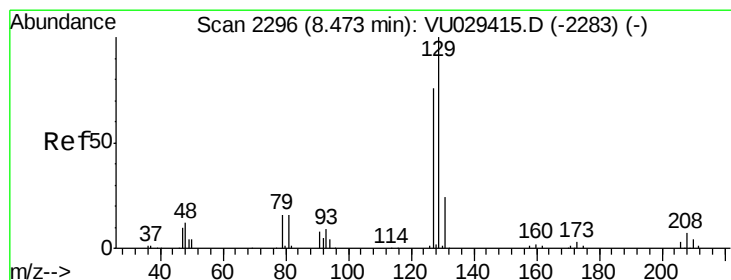
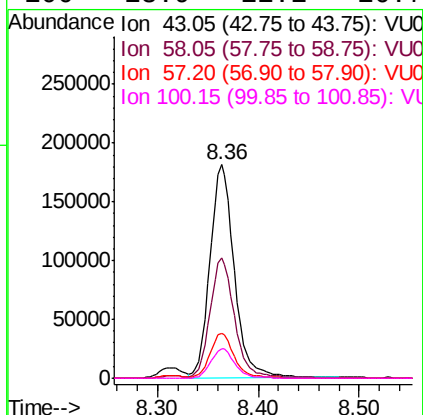
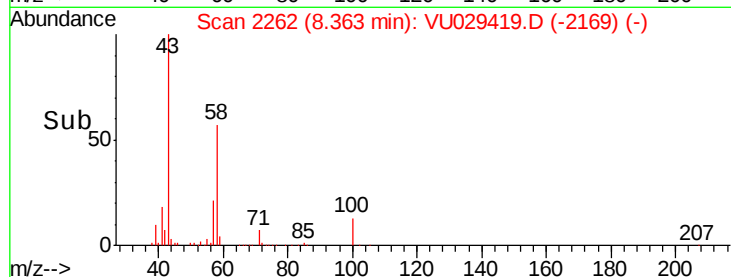
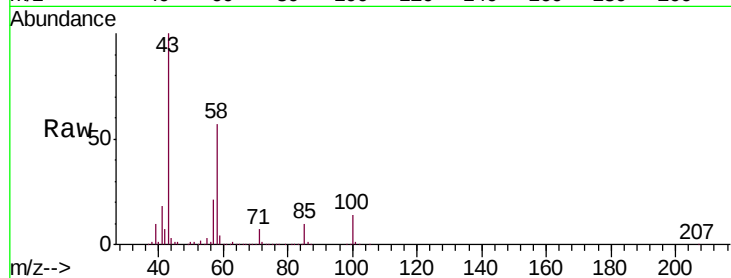




#48
2-Hexanone
Concen: 49.717 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU029419.D
Acq: 12 Feb 2019 14:39

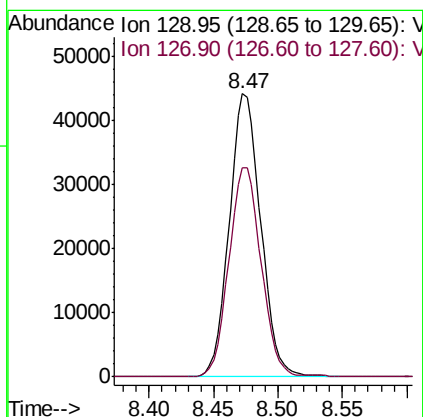
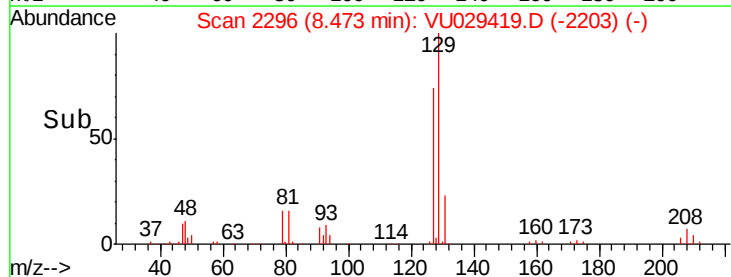
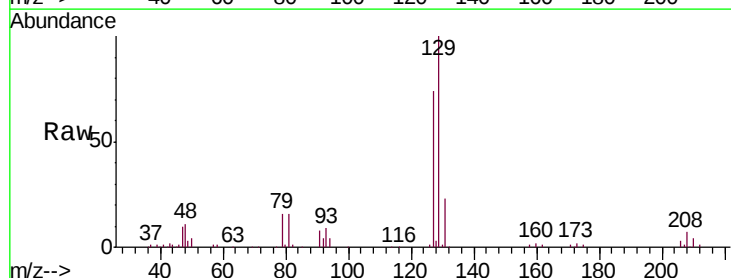
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

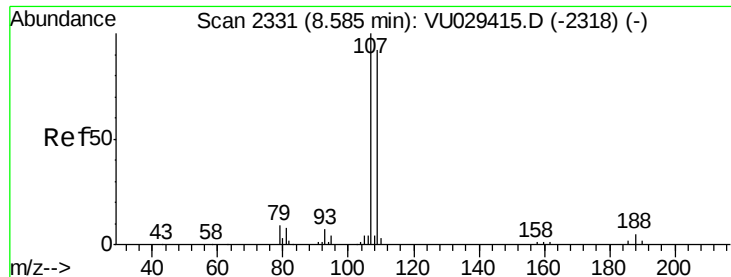
Tgt Ion: 43 Resp: 301876
Ion Ratio Lower Upper
43 100
58 56.7 45.7 68.5
57 21.0 16.4 24.6
100 13.9 11.1 16.7



#49
Dibromochloromethane
Concen: 5.013 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU029419.D
Acq: 12 Feb 2019 14:39

Tgt Ion: 129 Resp: 74793
Ion Ratio Lower Upper
129 100
127 73.8 53.3 99.1





#50

1,2-Dibromoethane

Concen: 5.079 ug/L

RT: 8.59 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

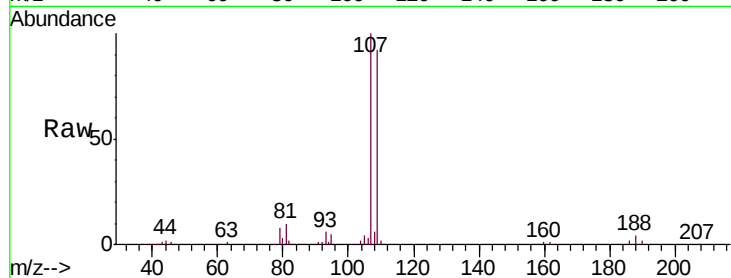
Instrument :

MSVOA_U

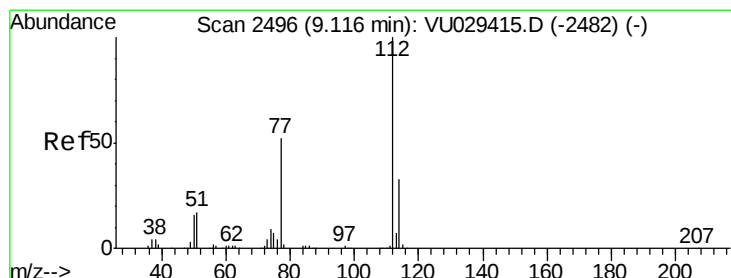
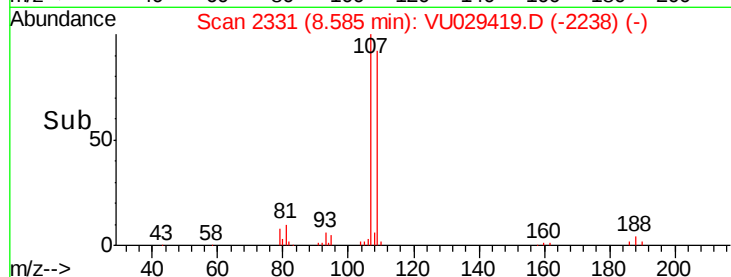
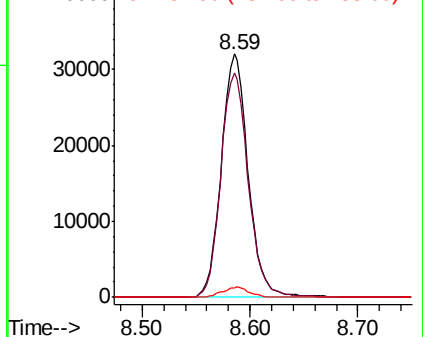
ClientSampleId :

VSTD00551

Tgt Ion:	107	Resp:	55647
Ion	Ratio	Lower	Upper
107	100		
109	92.2	64.1	119.1
188	4.1	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: 4.961 ug/L

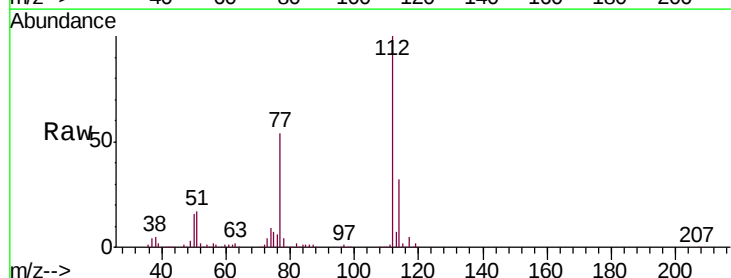
RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

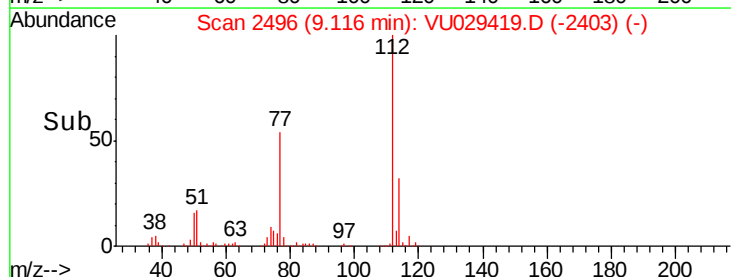
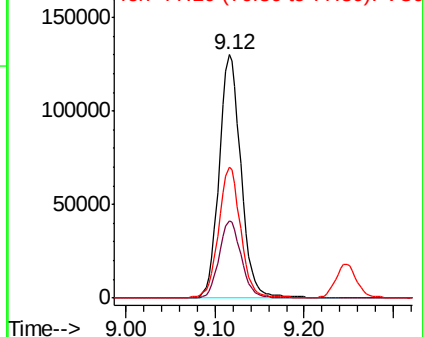
Lab File: VU029419.D

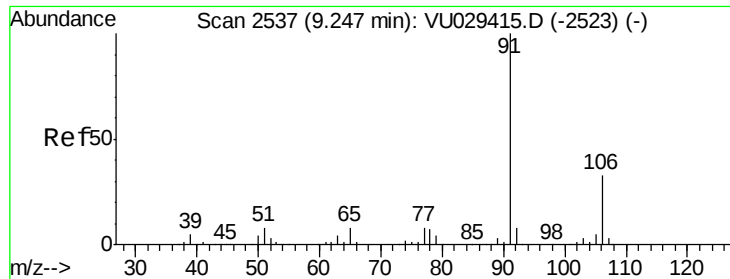
Acq: 12 Feb 2019 14:39

Tgt Ion:	112	Resp:	220969
Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.9	42.5
77	53.9	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: 4.942 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

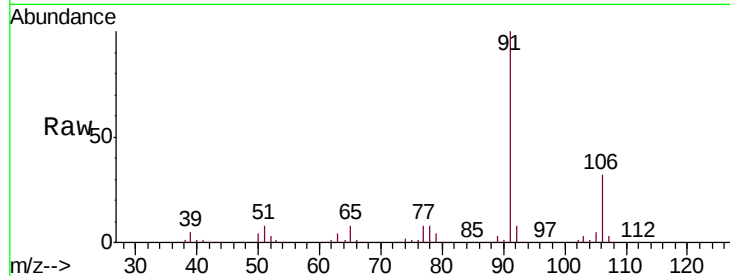
VSTD00551

Tgt Ion: 91 Resp: 362400

Ion Ratio Lower Upper

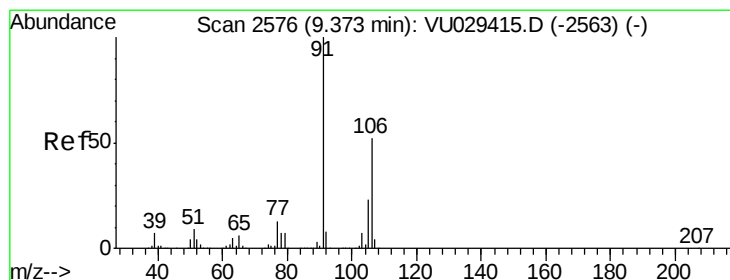
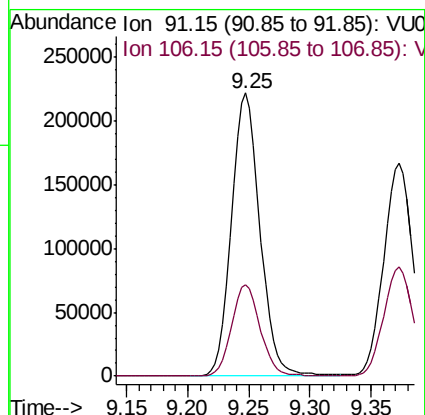
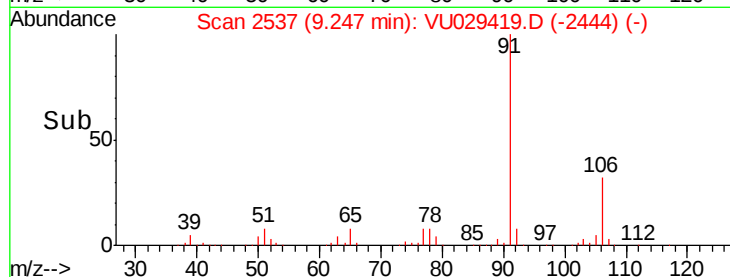
91 100

106 32.5 22.8 42.4



Abundance Ion 91.15 (90.85 to 91.85): VU029419.D (-2523) (-)

Ion 106.15 (105.85 to 106.85): VU029419.D (-2444) (-)



#53

m,p-xylene

Concen: 4.954 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU029419.D

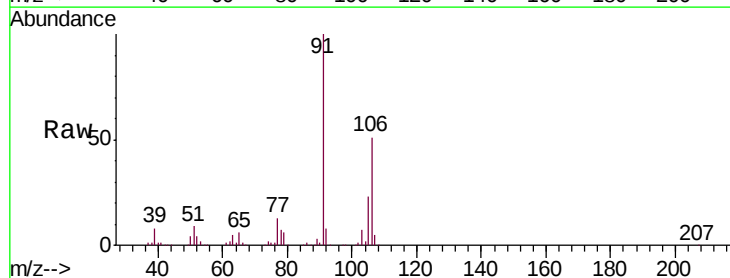
Acq: 12 Feb 2019 14:39

Tgt Ion: 106 Resp: 144870

Ion Ratio Lower Upper

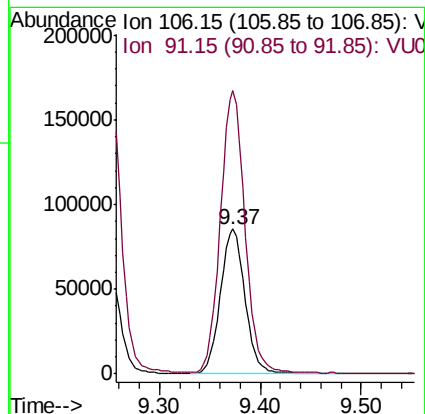
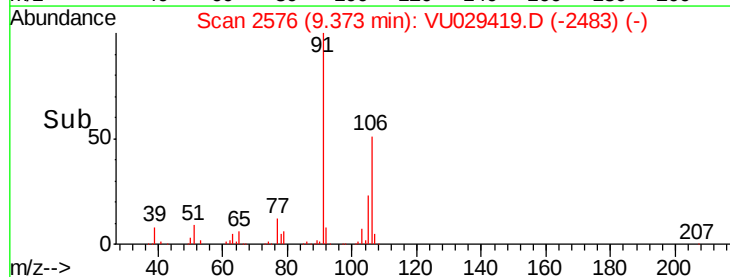
106 100

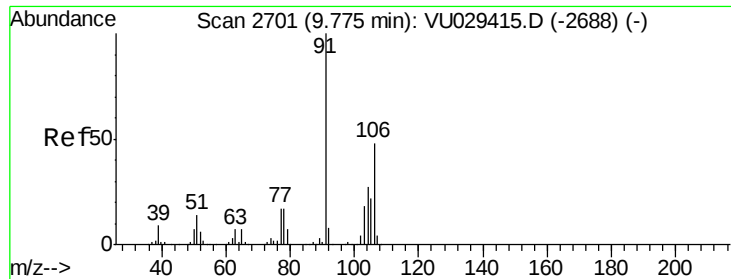
91 195.2 135.7 251.9



Abundance Ion 106.15 (105.85 to 106.85): VU029419.D (-2563) (-)

Ion 91.15 (90.85 to 91.85): VU029419.D (-2483) (-)

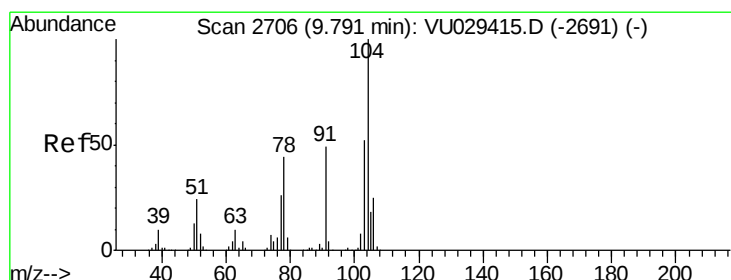
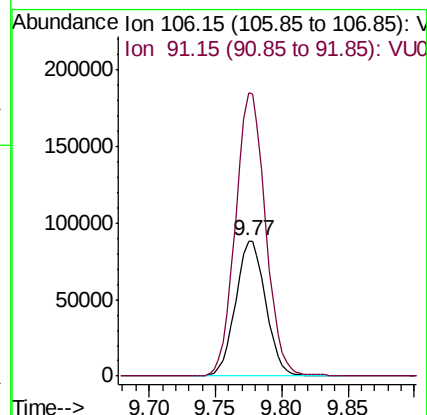
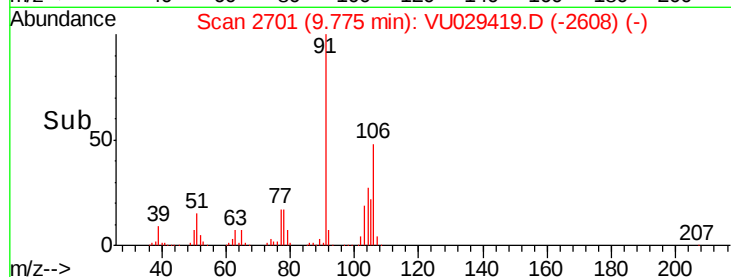
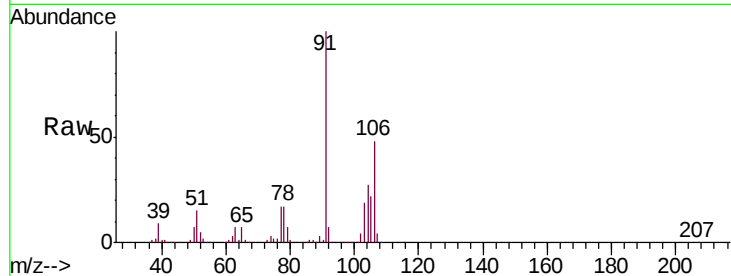




#54
o-xylene
Concen: 4.893 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU029419.D
Acq: 12 Feb 2019 14:39

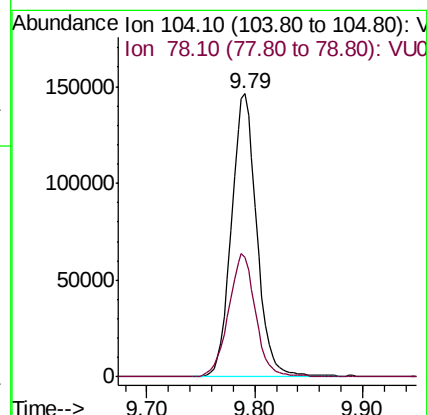
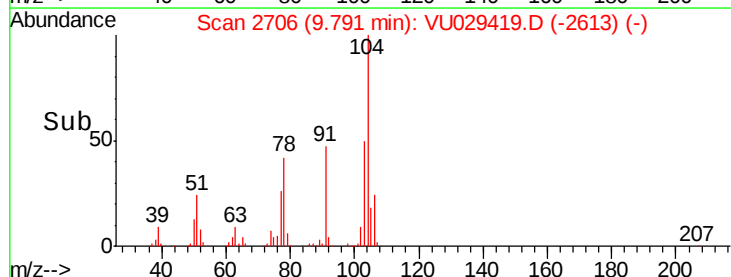
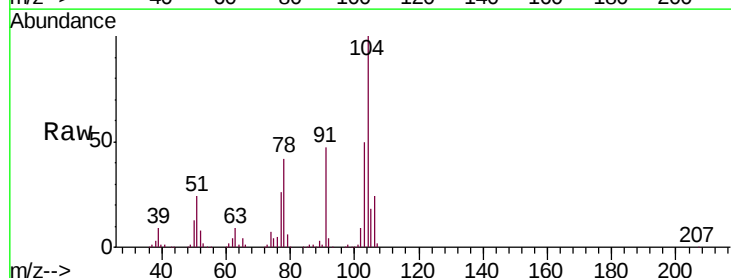
Instrument :
MSVOA_U
ClientSampleId :
VSTD00551

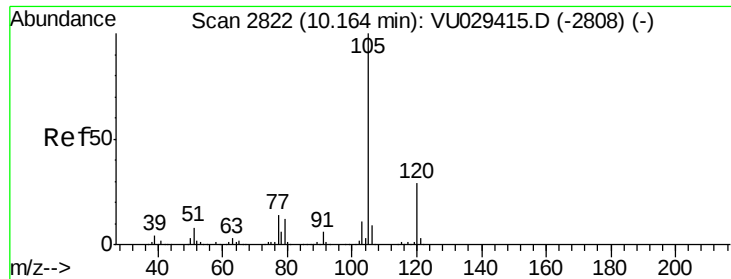
Tgt Ion:106 Resp: 140449
Ion Ratio Lower Upper
106 100
91 209.2 145.1 269.5



#55
Styrene
Concen: 5.028 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. -0.00 min
Lab File: VU029419.D
Acq: 12 Feb 2019 14:39

Tgt Ion:104 Resp: 239620
Ion Ratio Lower Upper
104 100
78 42.3 30.5 56.7





#56

Isopropylbenzene

Concen: 4.978 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

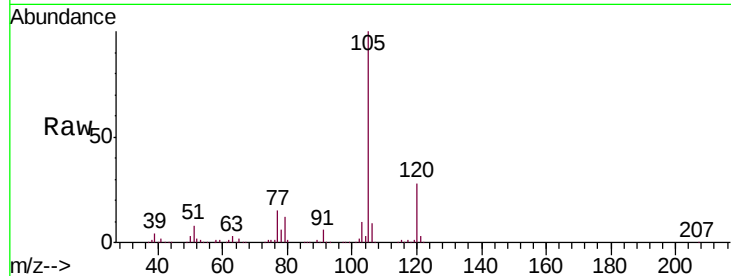
Tgt Ion: 105 Resp: 376838

Ion Ratio Lower Upper

105 100

120 27.8 22.2 33.4

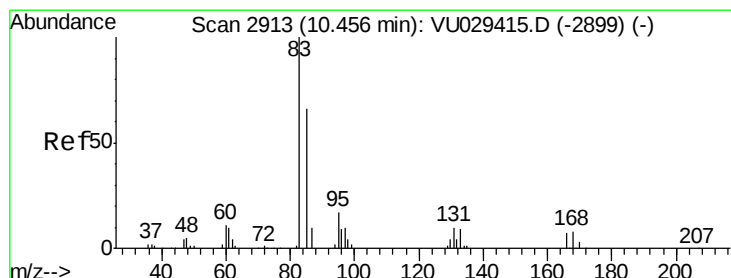
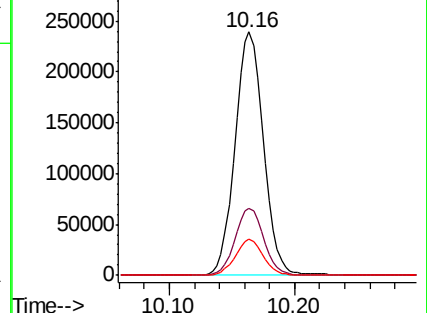
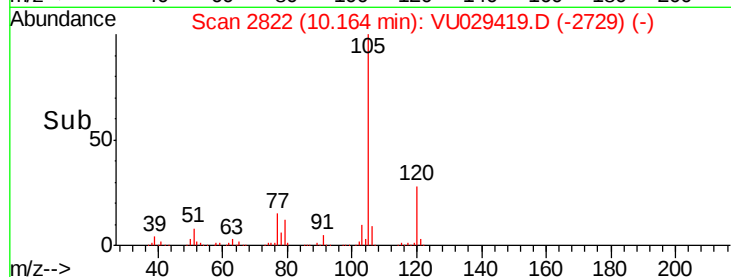
77 14.4 11.5 17.3



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: 4.979 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

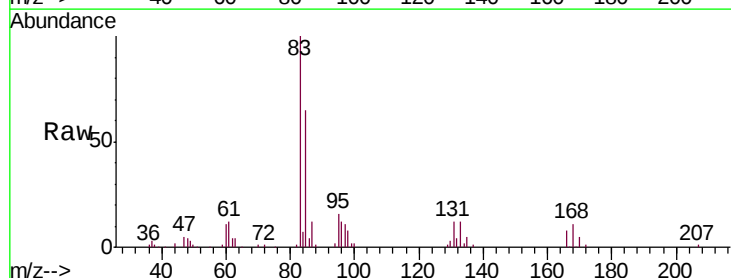
Tgt Ion: 83 Resp: 67274

Ion Ratio Lower Upper

83 100

85 65.0 46.5 86.3

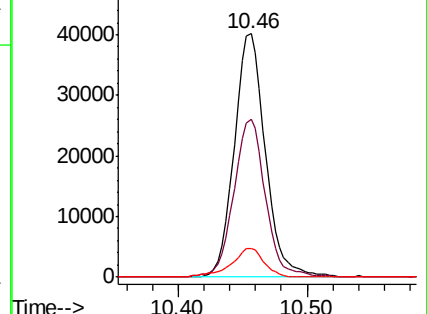
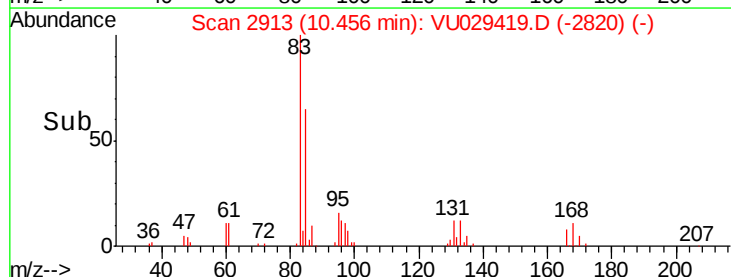
131 12.0 8.3 12.5

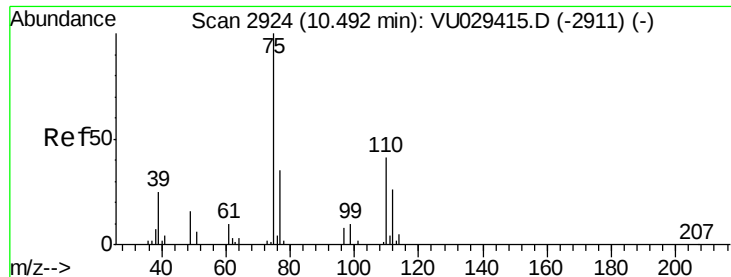


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

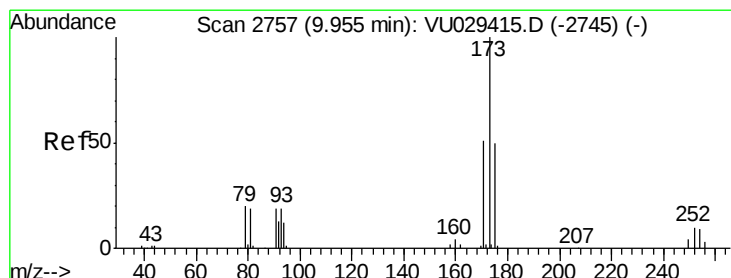
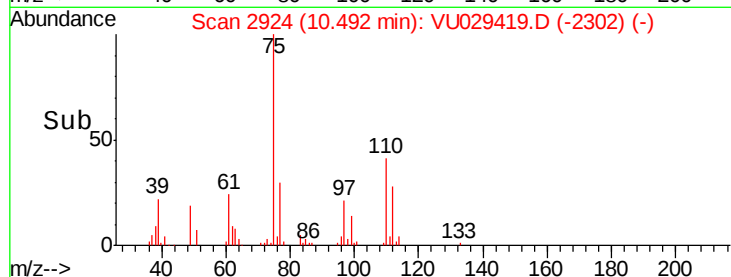
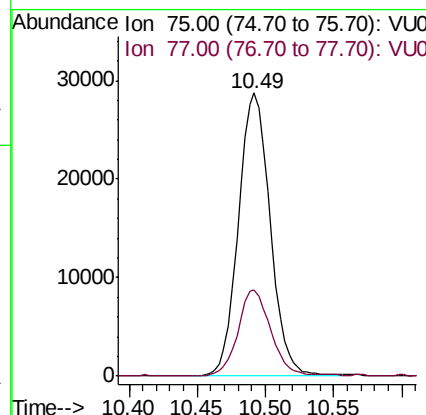
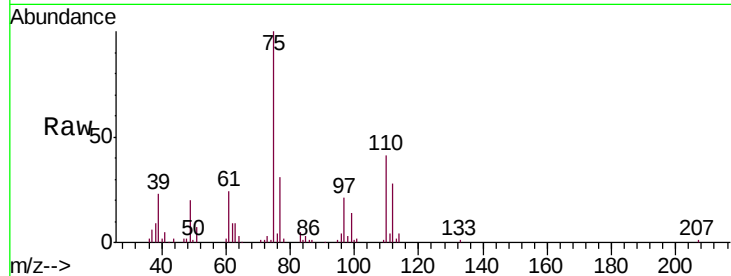




#59
 1,2,3-Trichloropropane
 Concen: 5.026 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

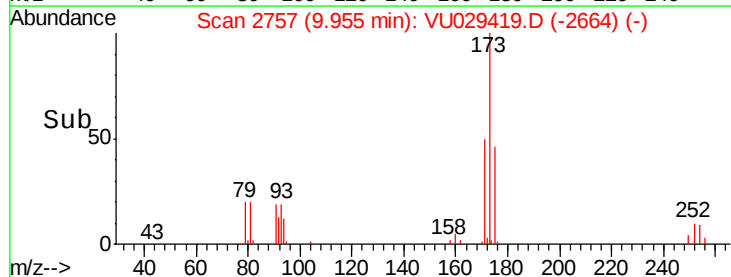
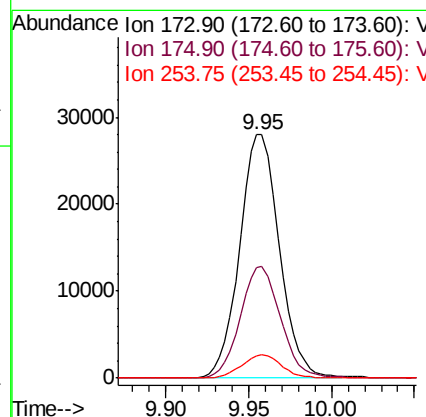
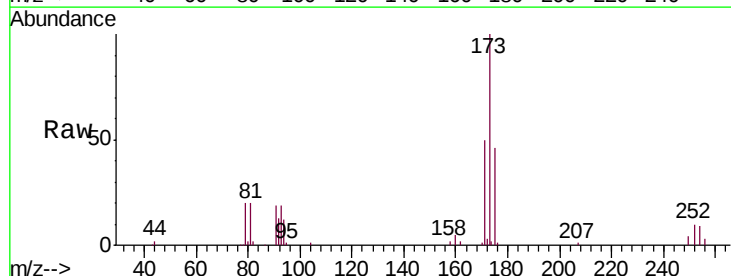
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

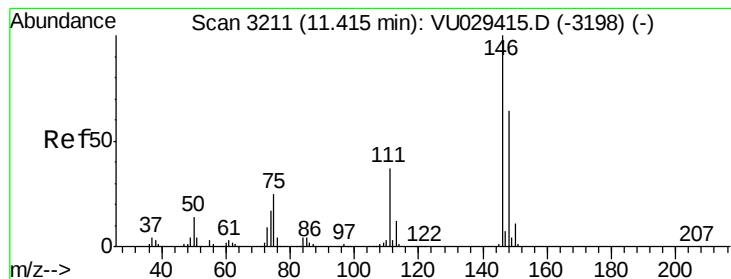
Tgt Ion: 75 Resp: 46599
 Ion Ratio Lower Upper
 75 100
 77 31.2 28.2 42.2



#61
 Bromoform
 Concen: 5.035 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Tgt Ion: 173 Resp: 46760
 Ion Ratio Lower Upper
 173 100
 175 46.4 39.2 58.8
 254 9.4 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 4.856 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

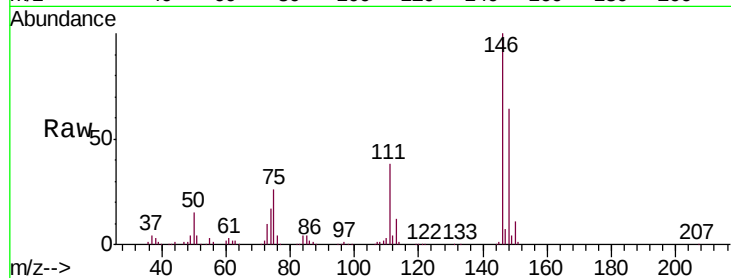
Tgt Ion:146 Resp: 188704

Ion Ratio Lower Upper

146 100

111 38.3 26.1 48.5

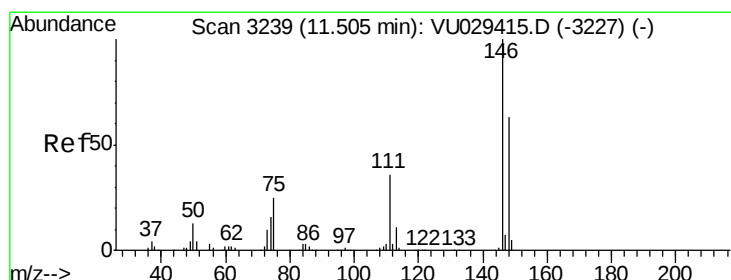
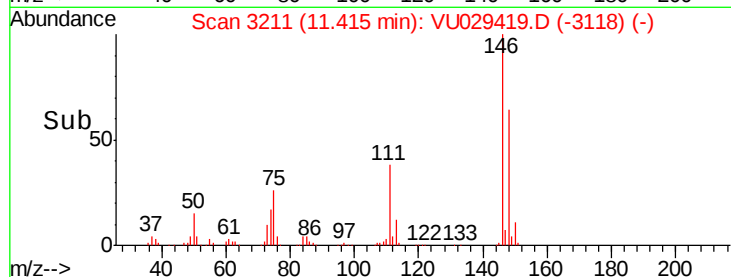
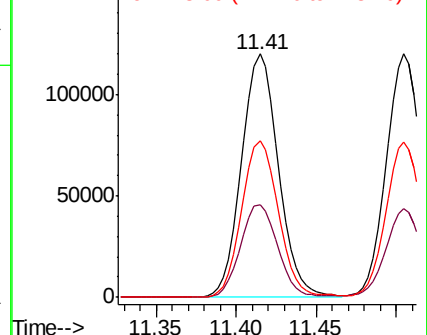
148 64.1 44.7 82.9



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: 4.959 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

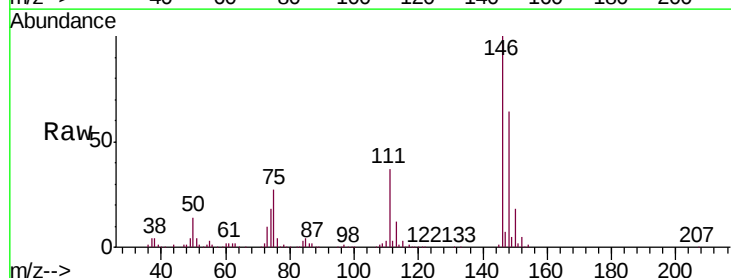
Tgt Ion:146 Resp: 192463

Ion Ratio Lower Upper

146 100

111 36.5 25.6 47.6

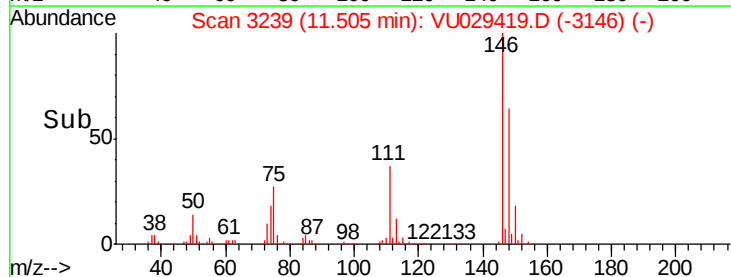
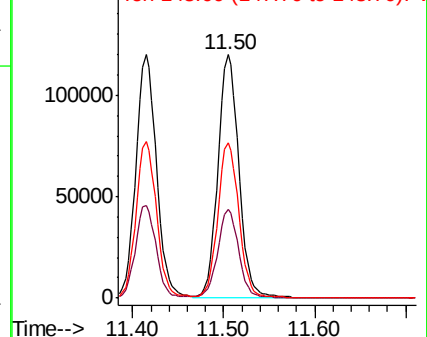
148 64.0 44.2 82.0

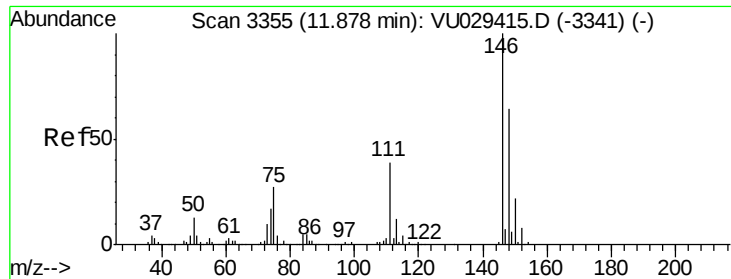


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

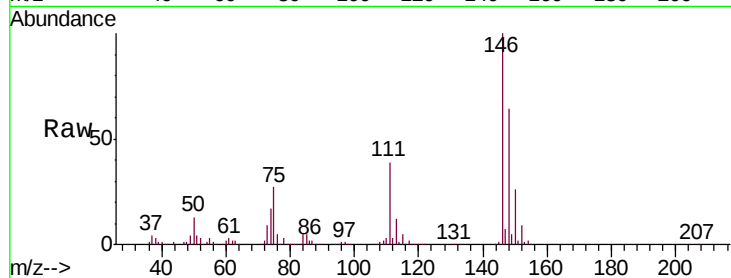




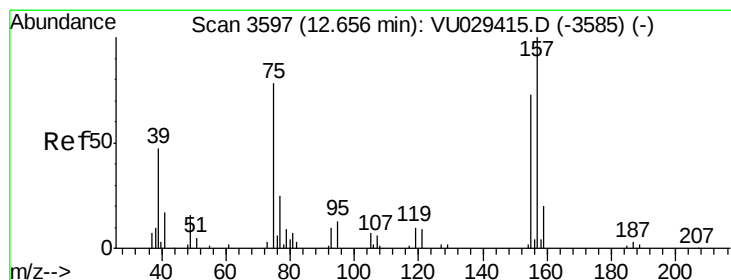
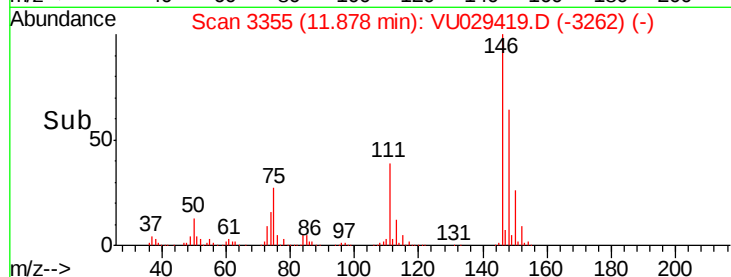
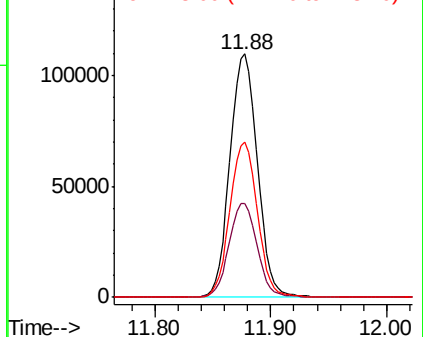
#65
 1,2-Dichlorobenzene
 Concen: 4.923 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tgt Ion:146 Resp: 180270
 Ion Ratio Lower Upper
 146 100
 111 38.6 30.9 46.3
 148 63.5 51.0 76.4

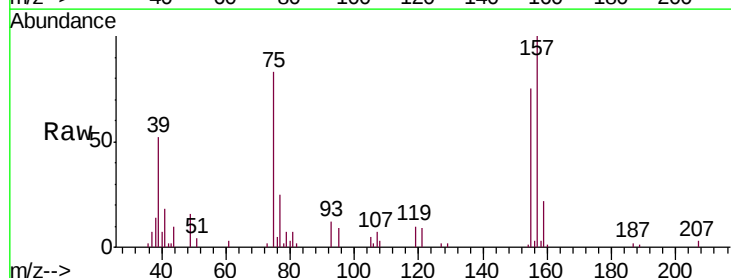


Abundance Ion 145.95 (145.65 to 146.65): V
 150000 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

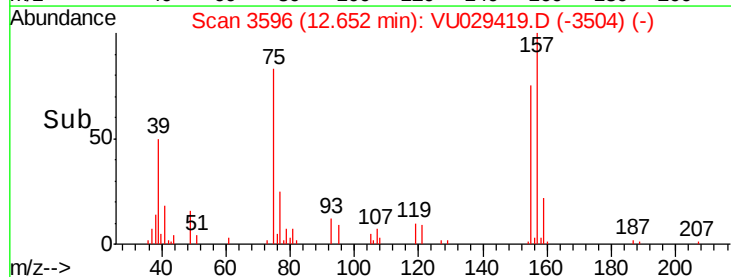
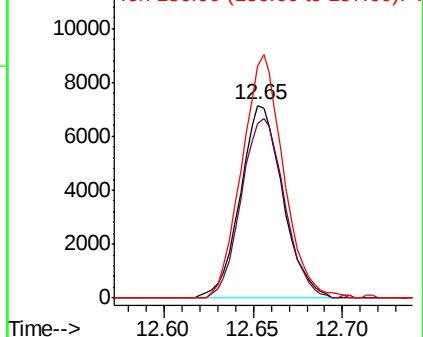


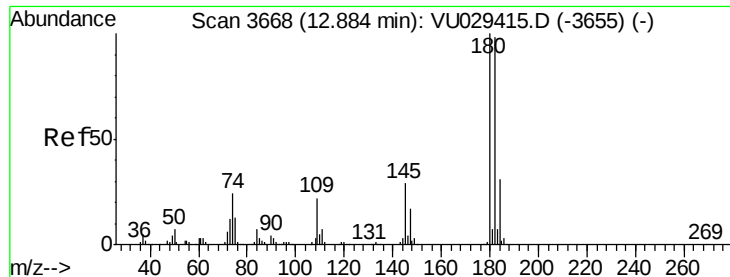
#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.183 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Tgt Ion: 75 Resp: 11874
 Ion Ratio Lower Upper
 75 100
 155 90.5 75.3 112.9
 157 120.5 103.0 154.4



Abundance Ion 75.05 (74.75 to 75.75): VU0
 12000 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

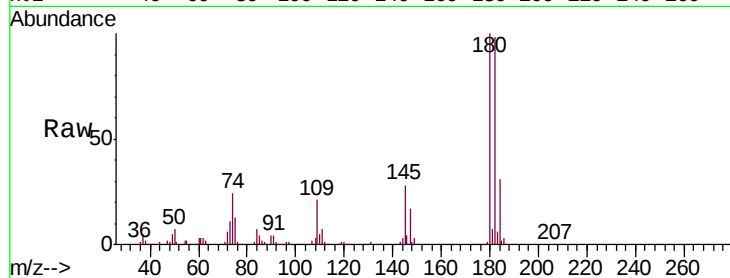




#67
 1,3,5-Trichlorobenzene
 Concen: 4.908 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00551

Tgt Ion:	180	Resp:	158251
Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.0	114.0
184	30.8	24.1	36.1
145	27.8	22.6	34.0



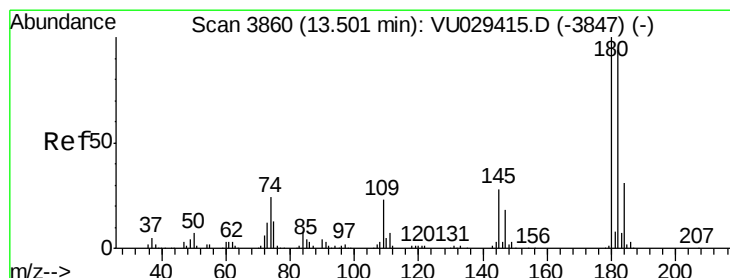
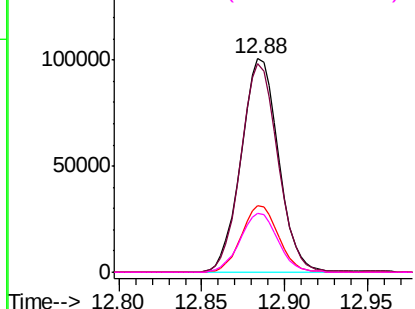
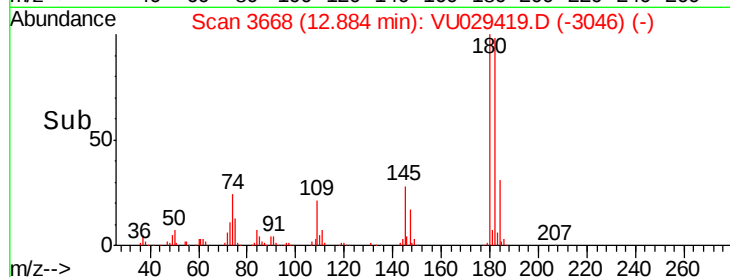
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

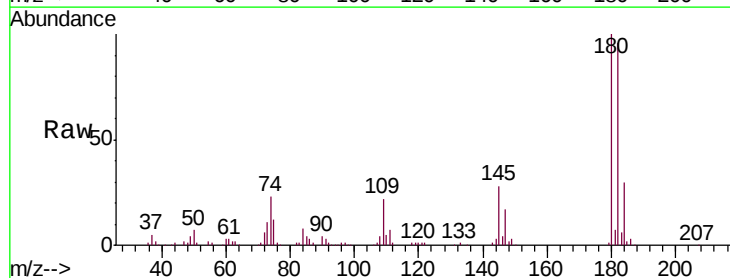
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.245 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU029419.D
 Acq: 12 Feb 2019 14:39

Tgt Ion:	180	Resp:	142470
Ion	Ratio	Lower	Upper
180	100		
182	94.1	77.1	115.7
145	28.1	23.1	34.7

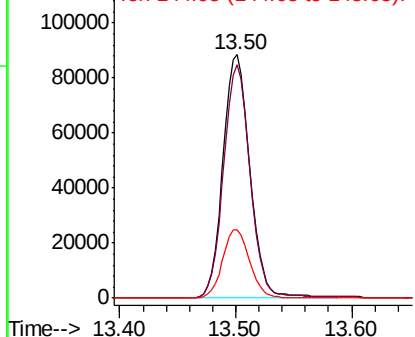
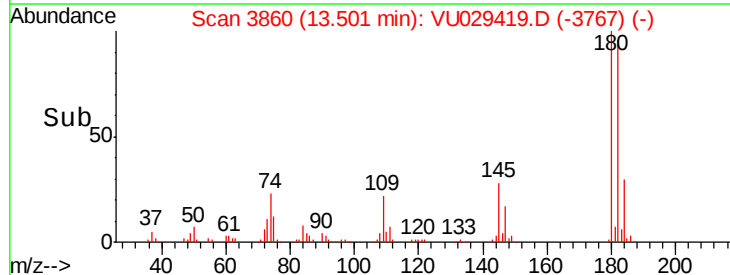


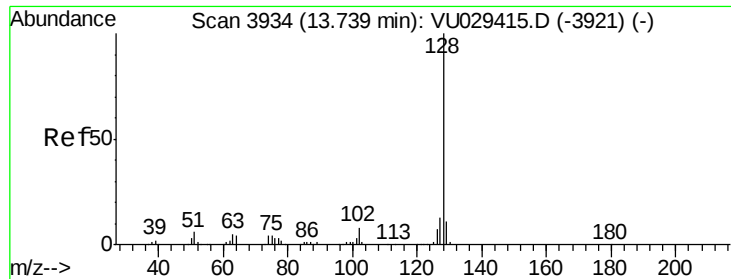
Abundance

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: 5.116 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD00551

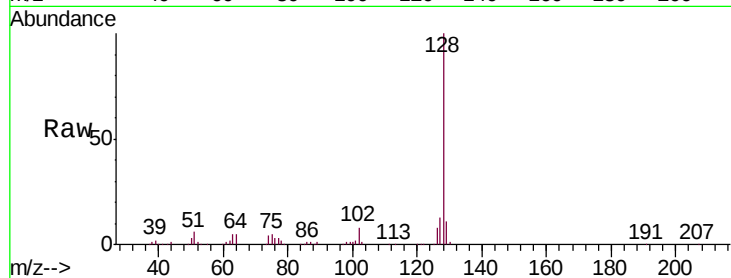
Tgt Ion:128 Resp: 239957

Ion Ratio Lower Upper

128 100

129 10.5 8.7 13.1

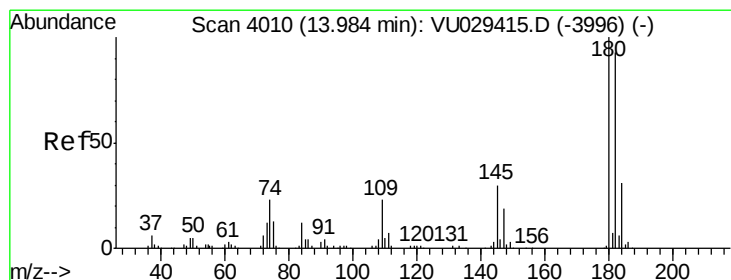
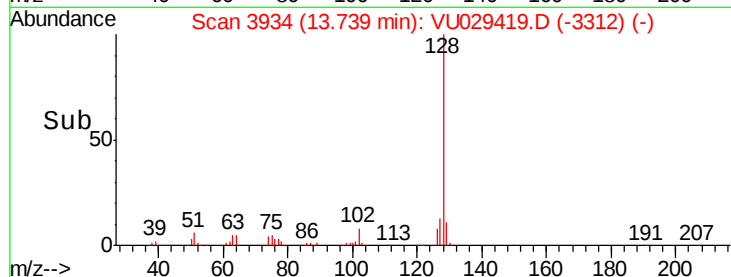
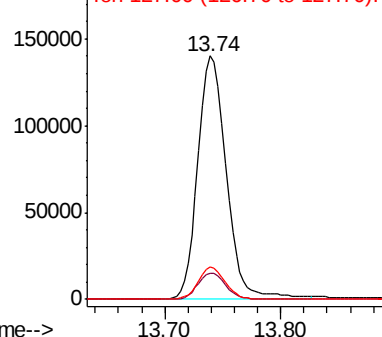
127 12.6 10.3 15.5



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: 4.976 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU029419.D

Acq: 12 Feb 2019 14:39

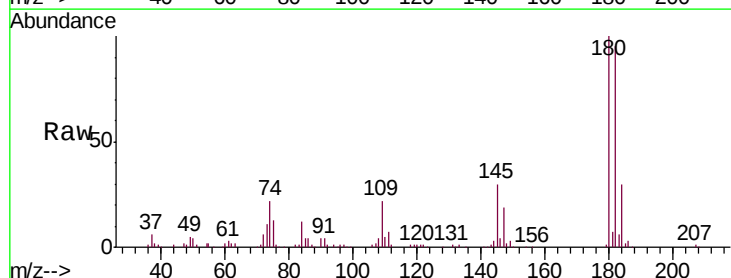
Tgt Ion:180 Resp: 129222

Ion Ratio Lower Upper

180 100

182 95.5 75.9 113.9

145 30.6 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

