

Data File : VU029808.D
Acq On : 05 Mar 2019 08:56
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Quant Time: Mar 06 00:31:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM021519WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 05 01:28:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	498610	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	494430	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	259957	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	164367	44.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.98%
7) Chloroethane-d5	1.68	69	135027	41.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.14%
11) 1,1-Dichloroethene-d2	2.27	63	303790	42.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.08%
21) 2-Butanone-d5	4.17	46	243791	109.65	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.65%
24) Chloroform-d	4.64	84	290470	49.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.04%
26) 1,2-Dichloroethane-d4	5.31	65	177988	47.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.88%
32) Benzene-d6	5.34	84	636296	51.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.28%
36) 1,2-Dichloropropane-d6	6.33	67	191114	51.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.12%
41) Toluene-d8	7.56	98	615452	48.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.94%
43) trans-1,3-Dichloropropene-	7.85	79	94377	47.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.08%
47) 2-Hexanone-d5	8.31	63	209058	100.30	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.30%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	306019	48.39	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.78%
64) 1,2-Dichlorobenzene-d4	11.86	152	258613	46.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.32%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	167281	48.930	ug/L	99
3) Chloromethane	1.32	50	157298	52.447	ug/L	99
5) Vinyl chloride	1.40	62	185827	45.622	ug/L	100
6) Bromomethane	1.62	94	115188	61.964	ug/L	100
8) Chloroethane	1.69	64	113703	41.970	ug/L	98
9) Trichlorofluoromethane	1.88	101	258348	39.789	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	166508	47.942	ug/L	99
12) 1,1-Dichloroethene	2.28	96	154445	46.775	ug/L	92
13) Acetone	2.32	43	251043	105.662	ug/L	96
14) Carbon disulfide	2.47	76	436168	50.438	ug/L	99
15) Methyl Acetate	2.61	43	171139	55.495	ug/L	99
16) Methylene chloride	2.70	84	173989	54.456	ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	160835	52.775	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	488680	51.793	ug/L	98
19) 1,1-Dichloroethane	3.44	63	281729	53.462	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	184746	52.171	ug/L	97
22) 2-Butanone	4.26	43	296046	109.182	ug/L	100

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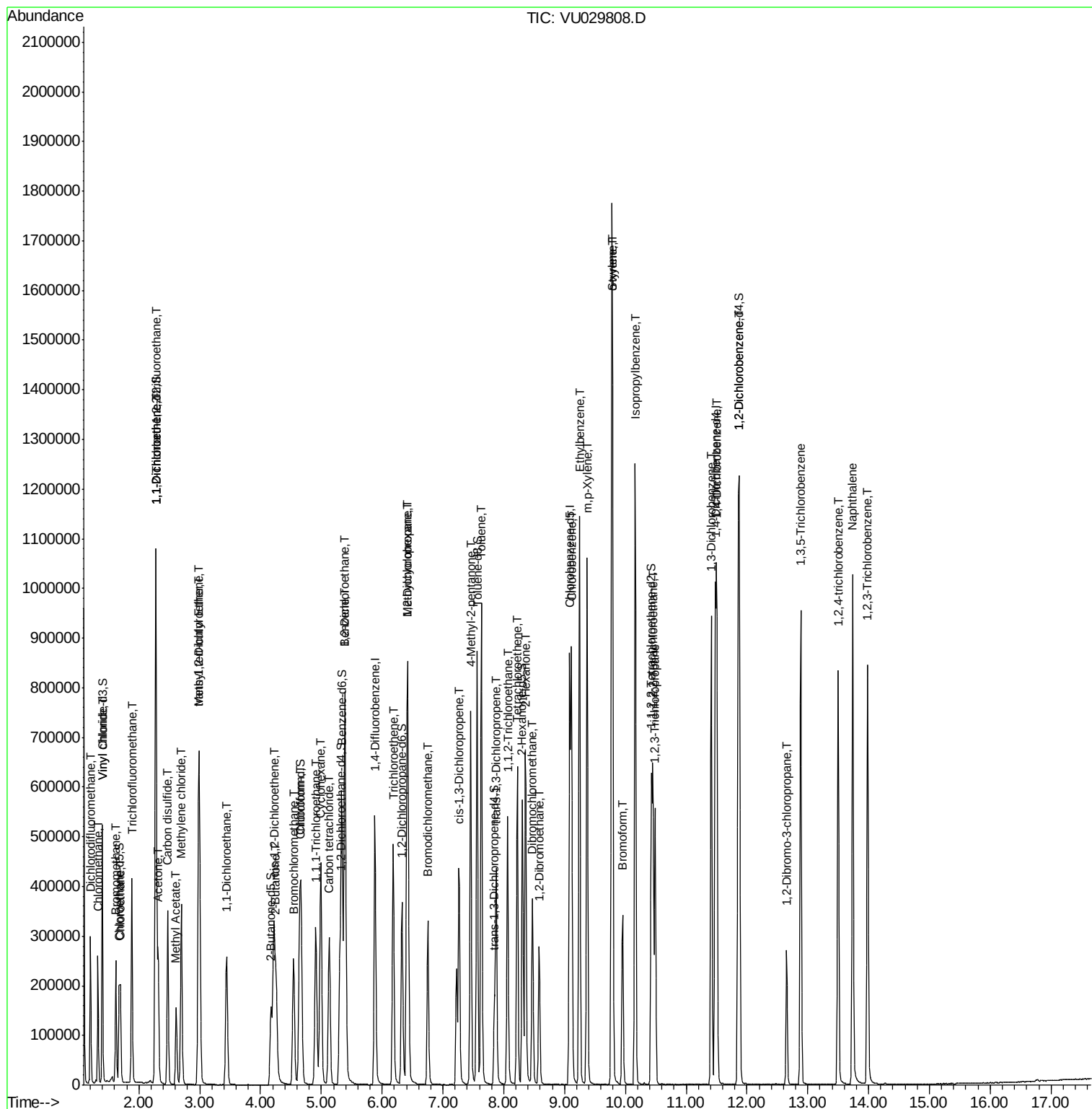
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	97288	50.116	ug/L	96
25) Chloroform	4.67	83	312516	53.153	ug/L	99
27) 1,2-Dichloroethane	5.40	62	219583	48.576	ug/L	99
29) Cyclohexane	4.99	56	246522	50.383	ug/L	97
30) 1,1,1-Trichloroethane	4.91	97	256524	48.932	ug/L	100
31) Carbon tetrachloride	5.13	117	223818	47.170	ug/L	98
33) Benzene	5.39	78	664957	52.456	ug/L	100
34) Trichloroethene	6.18	95	175486	51.388	ug/L	96
35) Methylcyclohexane	6.41	83	289812	51.103	ug/L	98
37) 1,2-Dichloropropane	6.43	63	174416	52.415	ug/L	99
38) Bromodichloromethane	6.75	83	227309	50.670	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	274448	51.119	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	472243	100.920	ug/L	98
42) Toluene	7.63	91	734503	48.996	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	251853	49.776	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	175947	49.607	ug/L	97
46) Tetrachloroethene	8.22	164	155098	46.403	ug/L	98
48) 2-Hexanone	8.36	43	403971	98.824	ug/L	98
49) Dibromochloromethane	8.47	129	203164	47.249	ug/L	100
50) 1,2-Dibromoethane	8.58	107	194113	49.397	ug/L	100
51) Chlorobenzene	9.12	112	498738	48.472	ug/L	99
52) Ethylbenzene	9.25	91	819457	48.130	ug/L	99
53) m,p-Xylene	9.37	106	323202	47.290	ug/L	98
54) o-xylene	9.77	106	322240	46.939	ug/L	99
55) Styrene	9.79	104	547740	47.264	ug/L	98
56) Isopropylbenzene	10.16	105	833014	46.371	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	311080	49.599	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	231996	48.897	ug/L	99
61) Bromoform	9.95	173	165379	47.241	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	408033	49.229	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	417996	50.113	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	418735	48.398	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	67506	50.139	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	324198	51.257	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	282287	51.601	ug/L	99
69) Naphthalene	13.74	128	875039	52.040	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	294858	50.756	ug/L	98

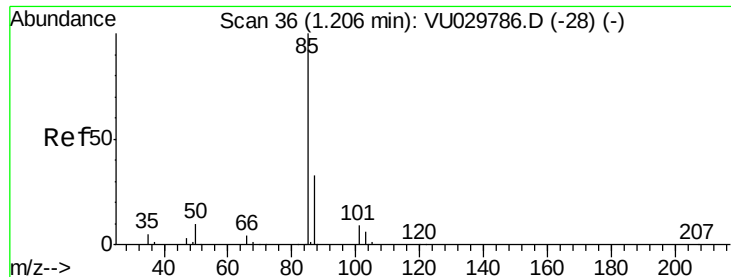
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.930 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

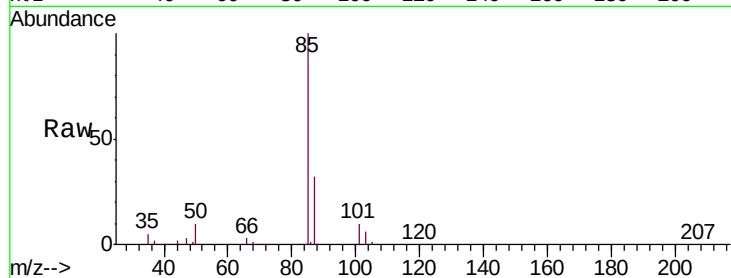
VSTD05049

Tgt Ion: 85 Resp: 167281

Ion Ratio Lower Upper

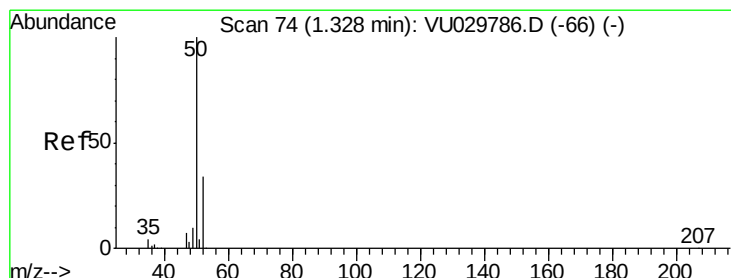
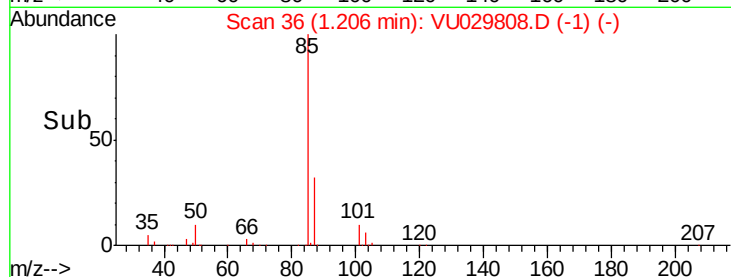
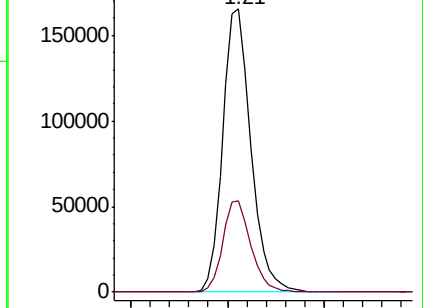
85 100

87 32.0 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 52.447 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU029808.D

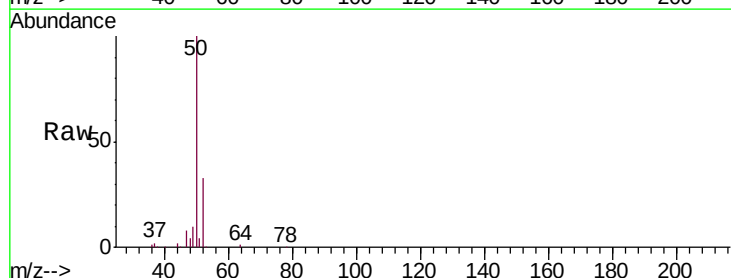
Acq: 05 Mar 2019 08:56

Tgt Ion: 50 Resp: 157298

Ion Ratio Lower Upper

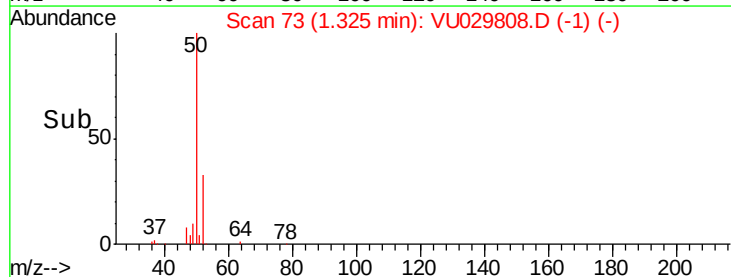
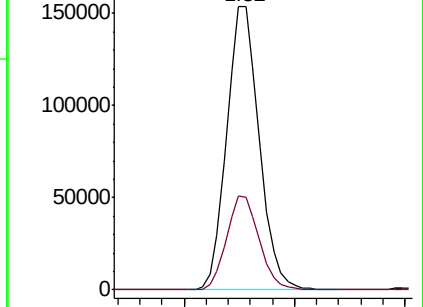
50 100

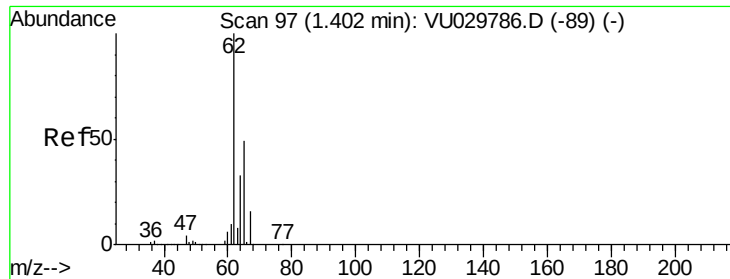
52 33.3 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 45.622 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

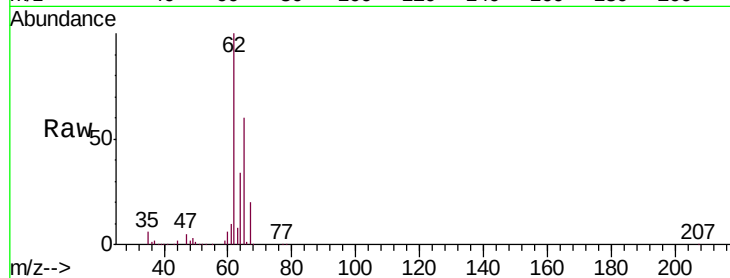
VSTD05049

Tgt Ion: 62 Resp: 185827

Ion Ratio Lower Upper

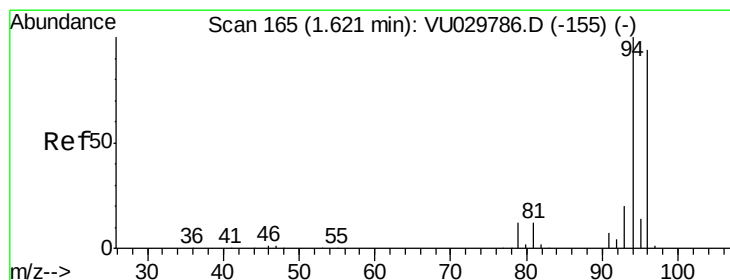
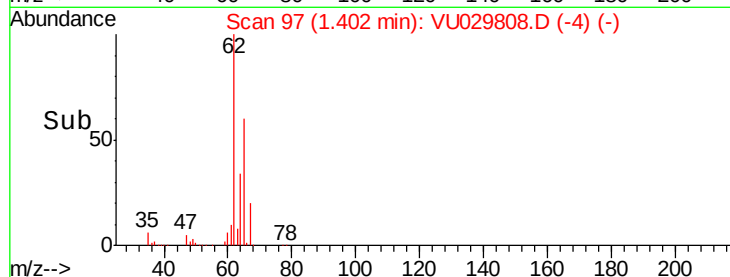
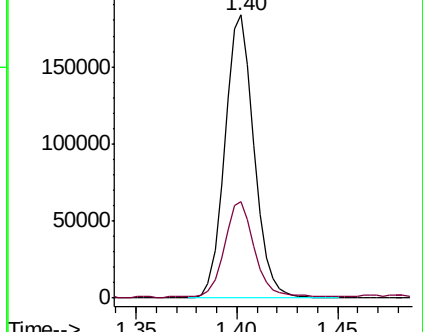
62 100

64 34.0 23.7 43.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 61.964 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU029808.D

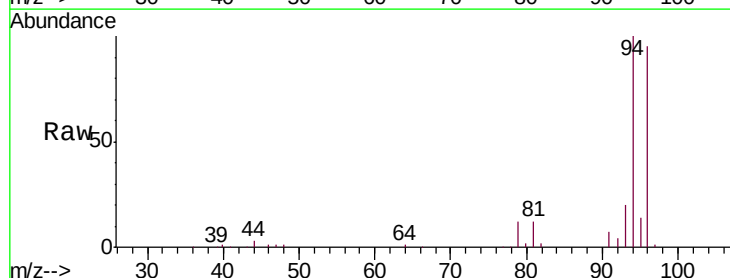
Acq: 05 Mar 2019 08:56

Tgt Ion: 94 Resp: 115188

Ion Ratio Lower Upper

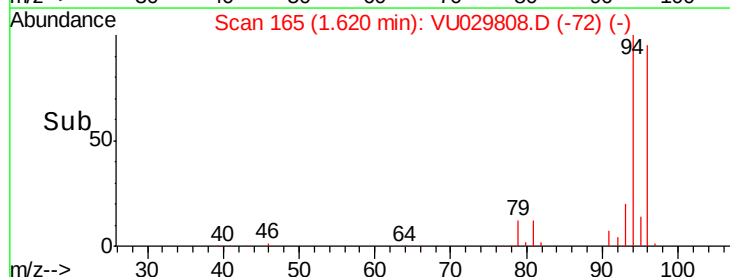
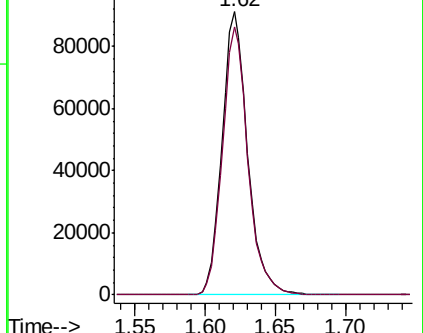
94 100

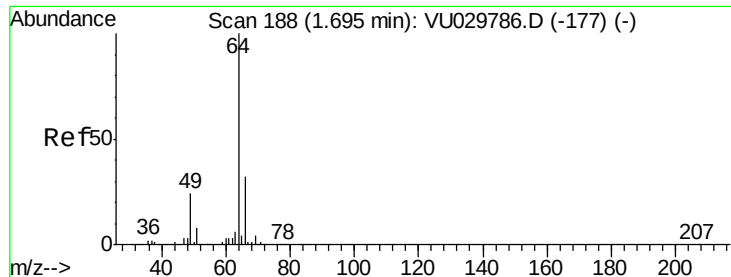
96 94.6 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 41.970 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

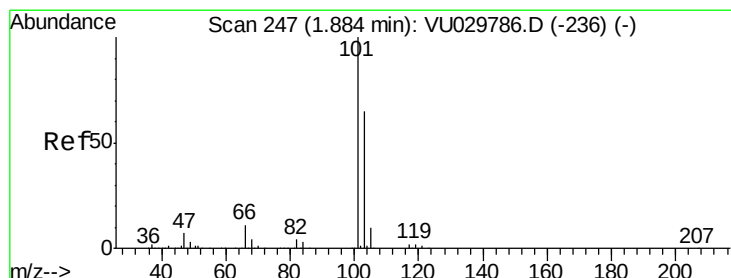
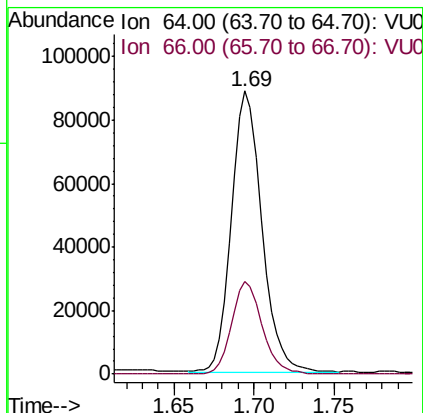
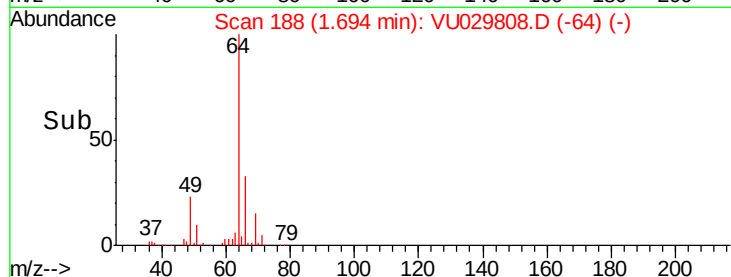
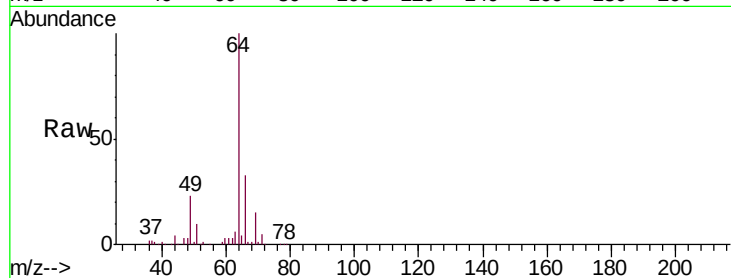
VSTD05049

Tgt Ion: 64 Resp: 113703

Ion Ratio Lower Upper

64 100

66 32.6 22.0 41.0



#9

Trichlorofluoromethane

Concen: 39.789 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU029808.D

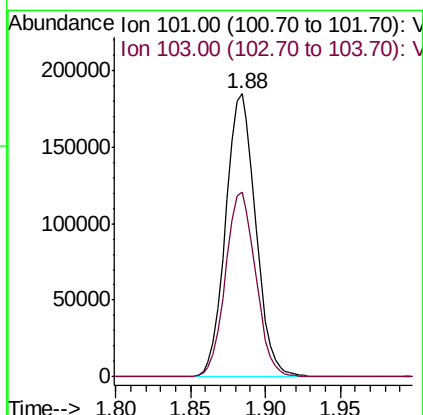
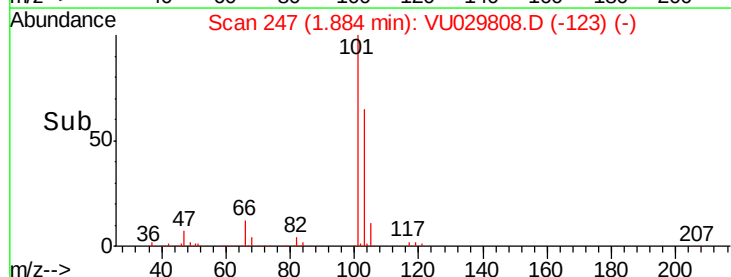
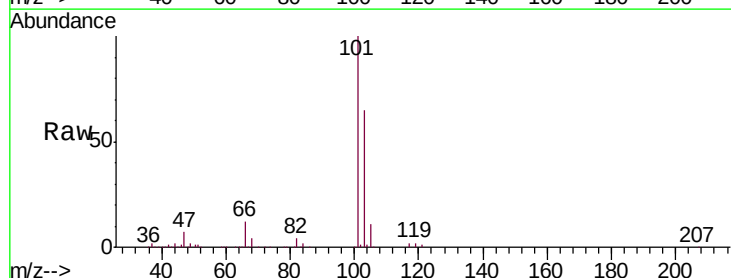
Acq: 05 Mar 2019 08:56

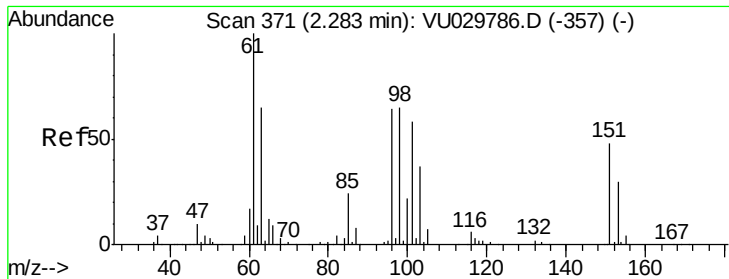
Tgt Ion: 101 Resp: 258348

Ion Ratio Lower Upper

101 100

103 65.8 51.4 77.2





#10

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

Concen: 47.942 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029808.D

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Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

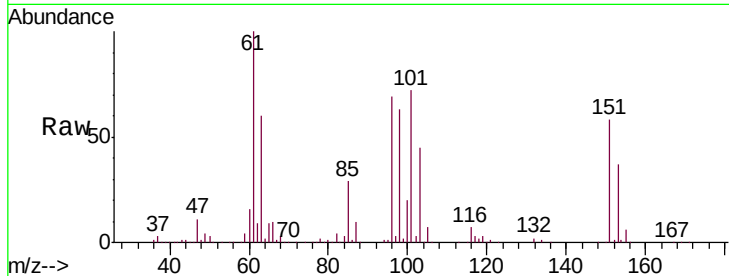
Tgt Ion:101 Resp: 166508

Ion Ratio Lower Upper

101 100

85 41.2 33.0 49.6

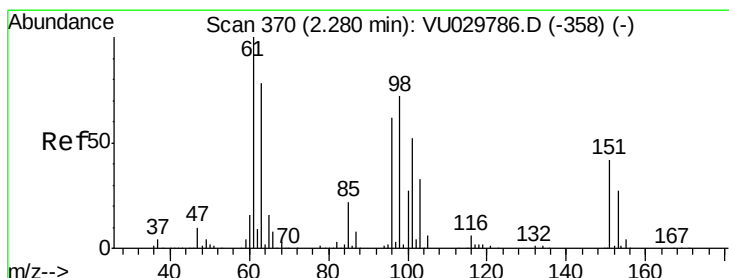
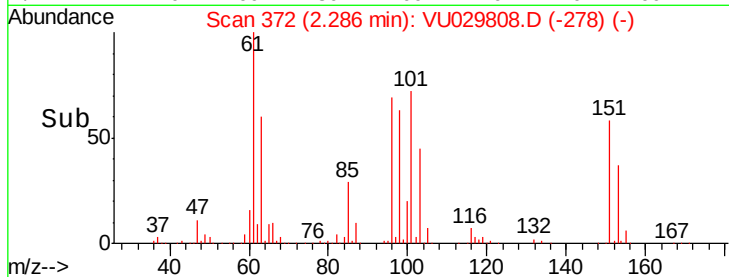
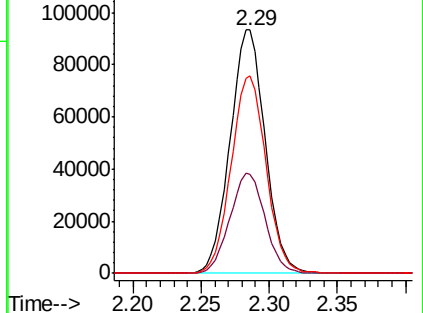
151 80.8 65.7 98.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 46.775 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029808.D

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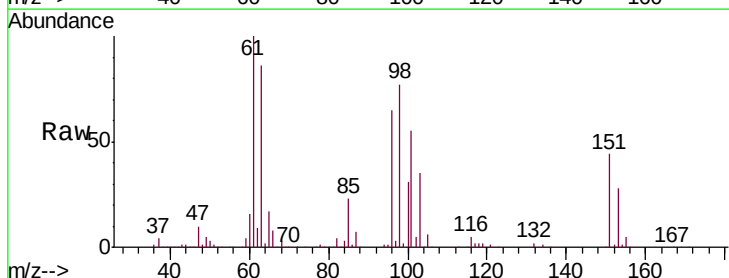
Tgt Ion: 96 Resp: 154445

Ion Ratio Lower Upper

96 100

61 152.8 114.0 211.8

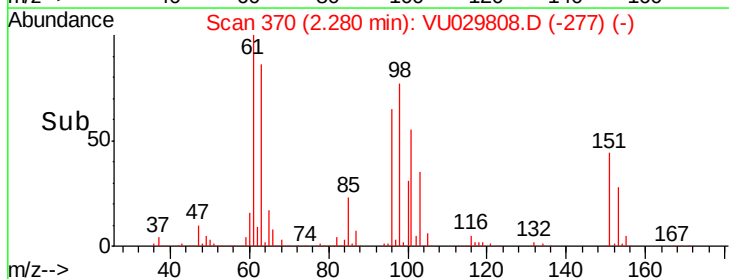
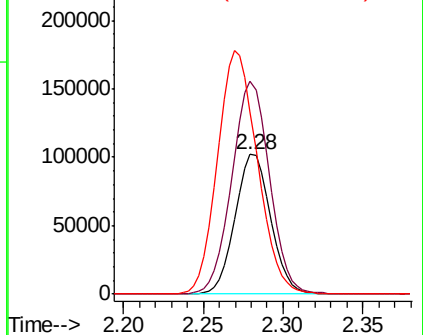
63 130.7 98.7 183.3

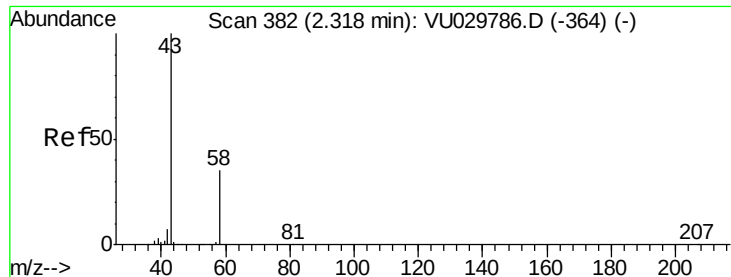


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 105.662 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

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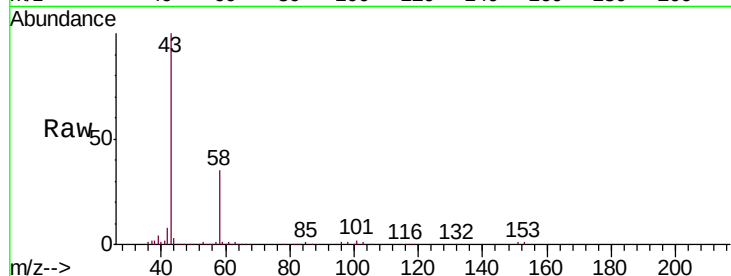
VSTD05049

Tgt Ion: 43 Resp: 251043

Ion Ratio Lower Upper

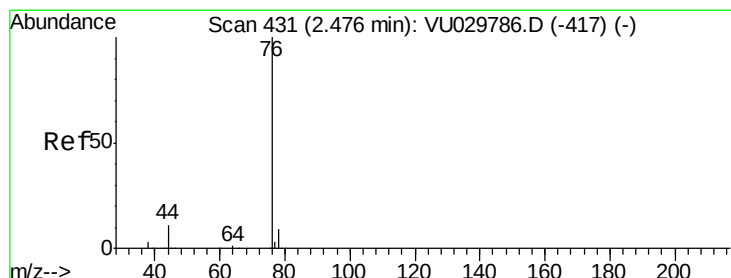
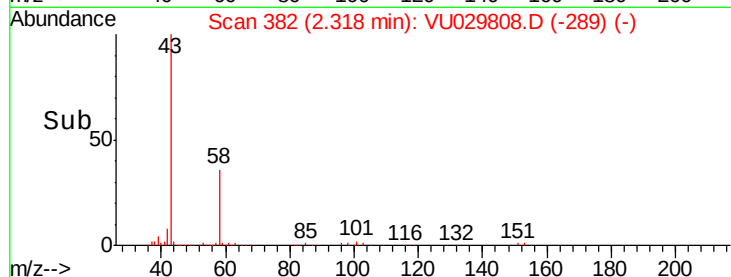
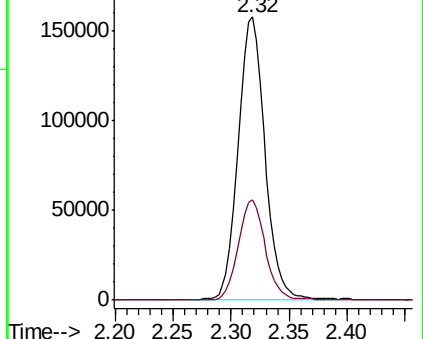
43 100

58 35.4 0.0 66.8



Abundance Ion 43.00 (42.70 to 43.70): VU029786.D (-364) (-)

Ion 58.00 (57.70 to 58.70): VU029786.D (-364) (-)



#14

Carbon disulfide

Concen: 50.438 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU029808.D

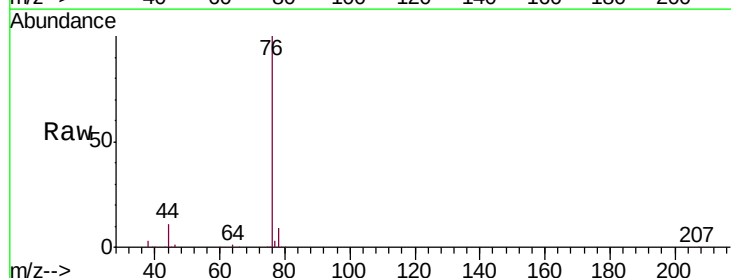
Acq: 05 Mar 2019 08:56

Tgt Ion: 76 Resp: 436168

Ion Ratio Lower Upper

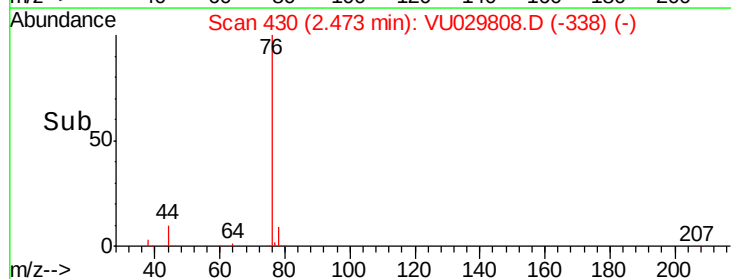
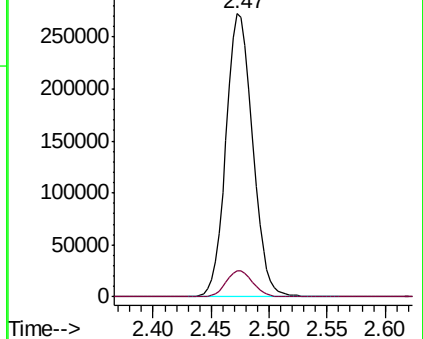
76 100

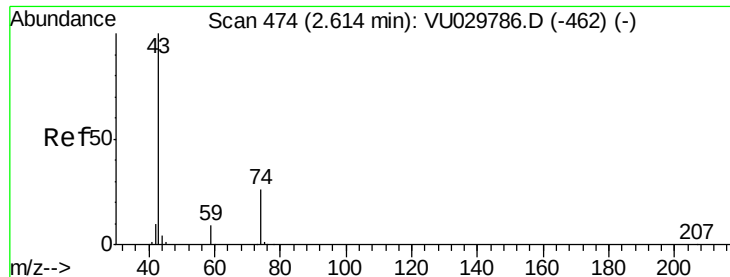
78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU029786.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU029786.D (-417) (-)

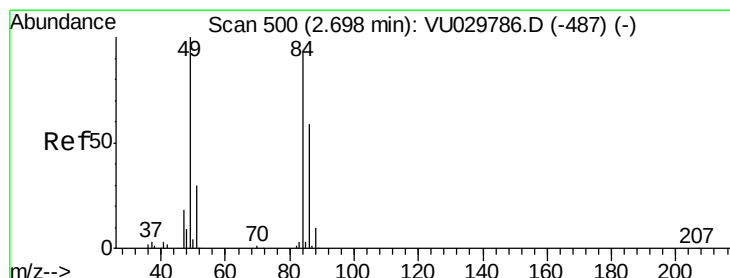
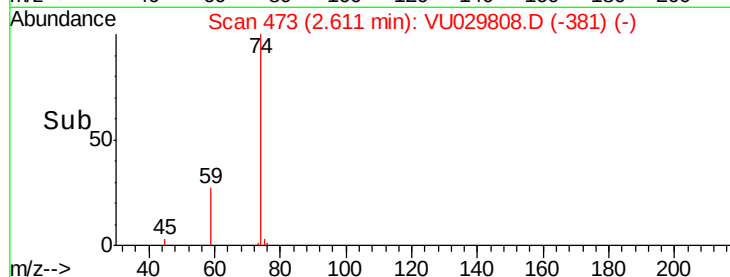
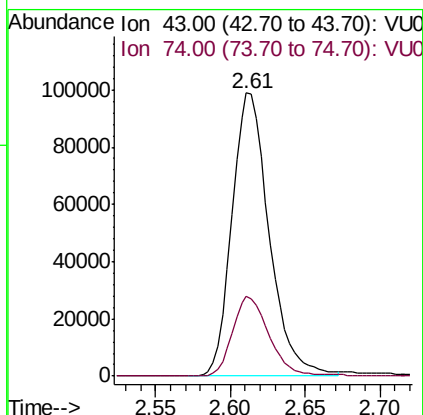
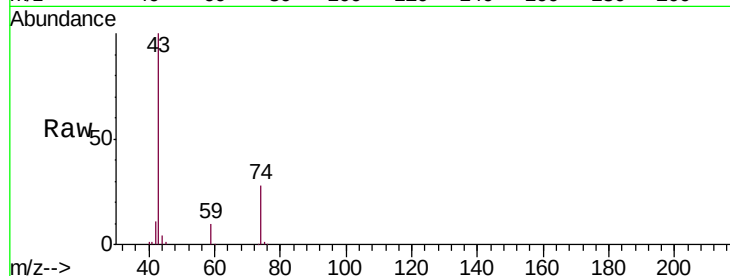




#15
Methyl Acetate
Concen: 55.495 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

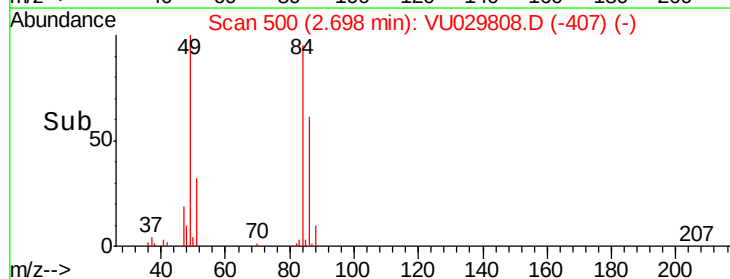
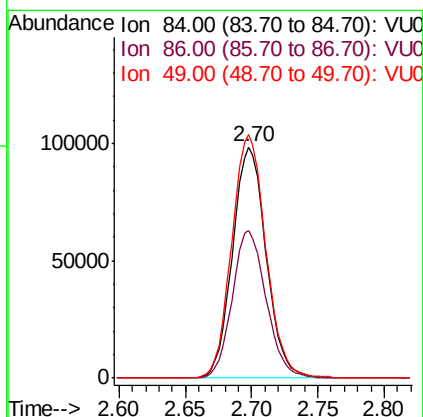
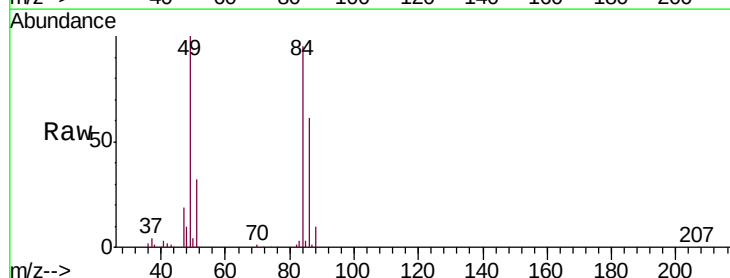
Instrument :
MSVOA_U
ClientSampled :
VSTD05049

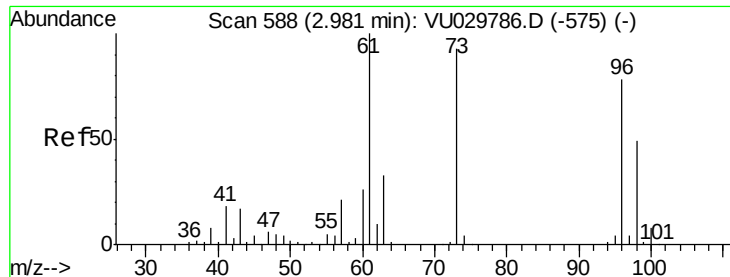
Tgt Ion: 43 Resp: 171139
Ion Ratio Lower Upper
43 100
74 27.4 21.5 32.3



#16
Methylene chloride
Concen: 54.456 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Tgt Ion: 84 Resp: 173989
Ion Ratio Lower Upper
84 100
86 64.0 45.8 85.0
49 105.5 75.1 139.5





#17

trans-1,2-Dichloroethene

Concen: 52.775 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

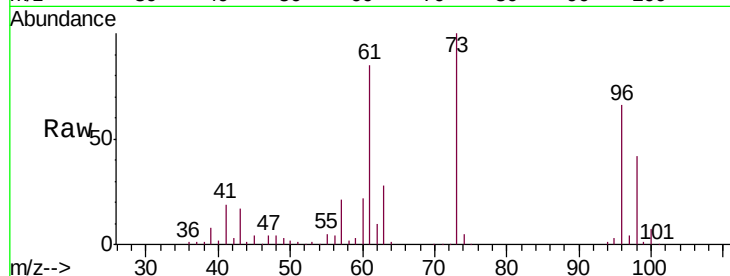
Tgt Ion: 96 Resp: 160835

Ion Ratio Lower Upper

96 100

61 128.4 88.3 163.9

98 63.6 44.8 83.2

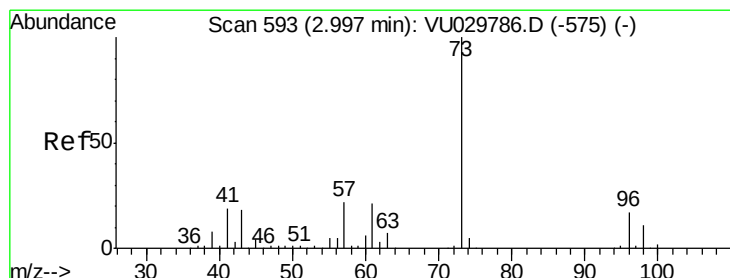
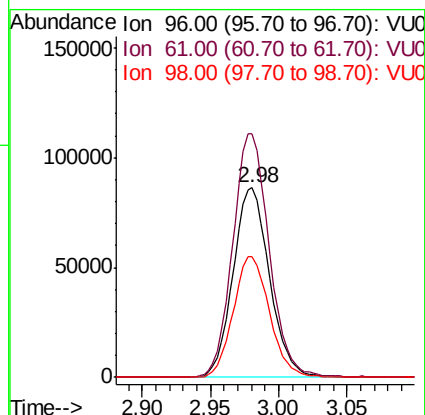
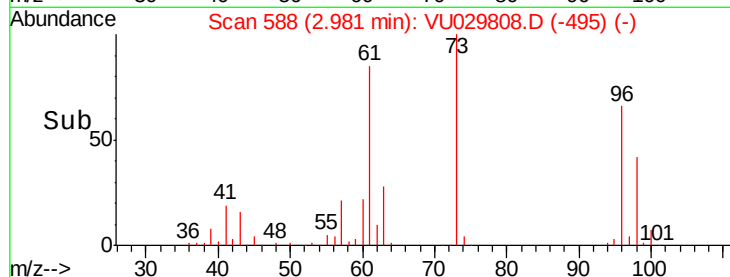


Abundance Ion 96.00 (95.70 to 96.70): VU029786.D (-575) (-)

Ion 61.00 (60.70 to 61.70): VU029786.D (-575) (-)

Ion 98.00 (97.70 to 98.70): VU029786.D (-575) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 51.793 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

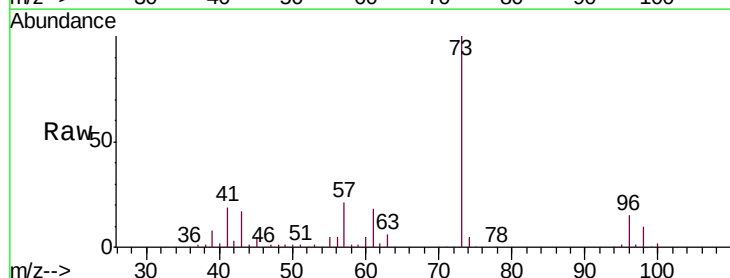
Tgt Ion: 73 Resp: 488680

Ion Ratio Lower Upper

73 100

43 17.4 14.8 22.2

57 21.4 16.5 24.7

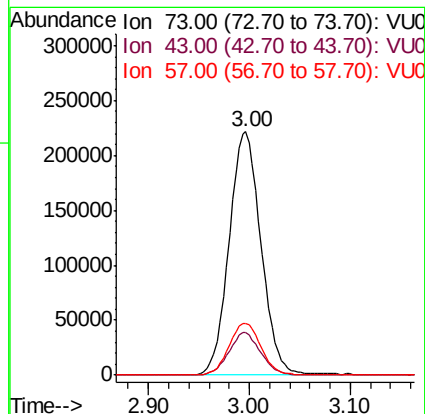
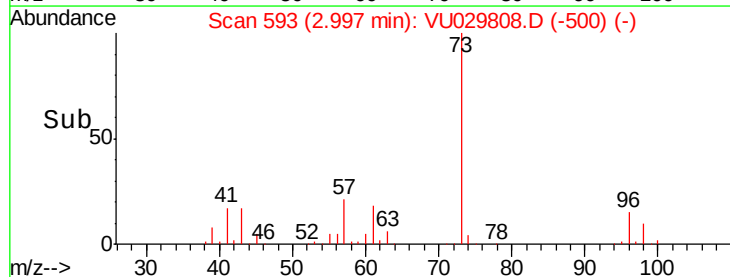


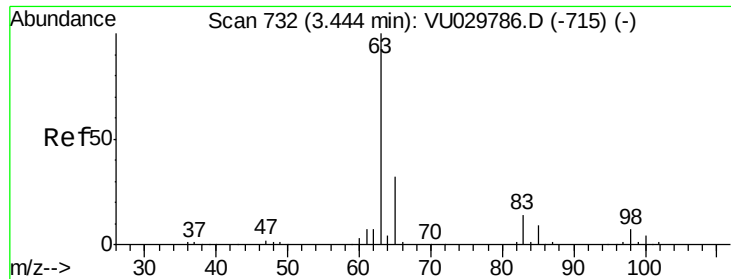
Abundance Ion 73.00 (72.70 to 73.70): VU029786.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU029786.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU029786.D (-575) (-)

Time-->

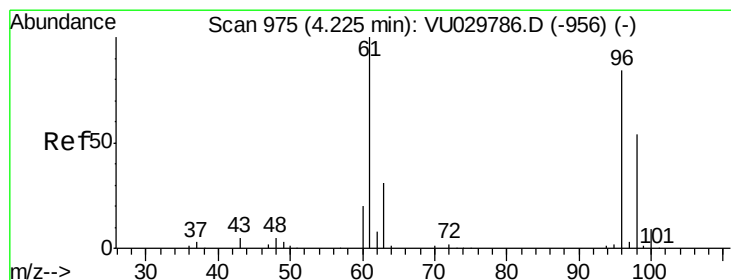
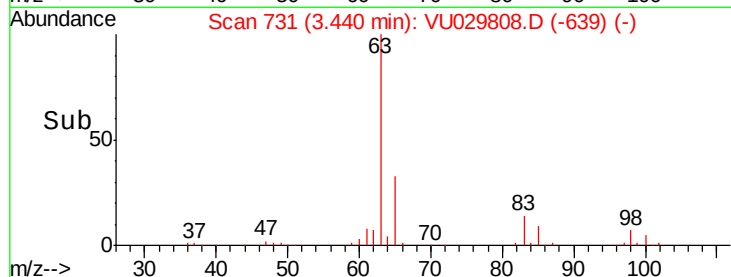
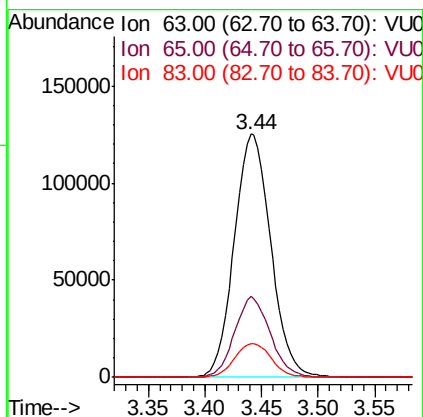
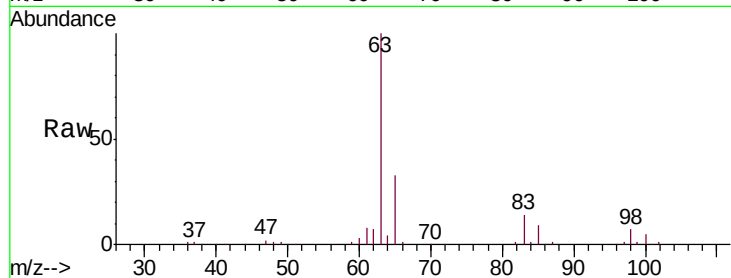




#19
 1,1-Dichloroethane
 Concen: 53.462 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

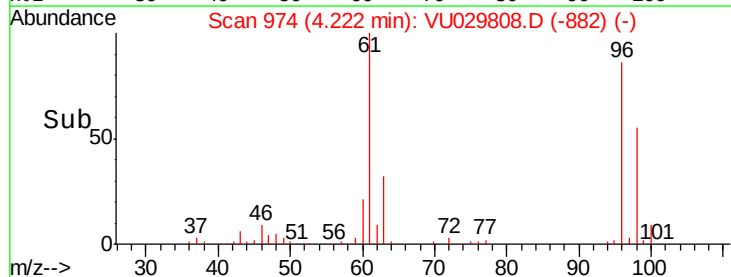
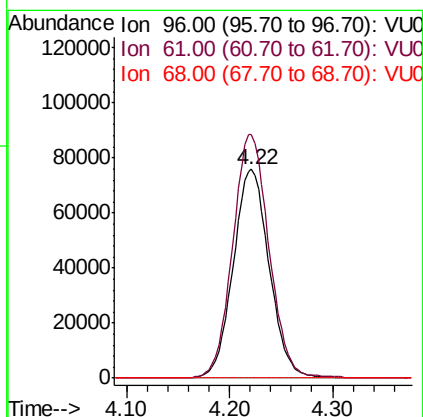
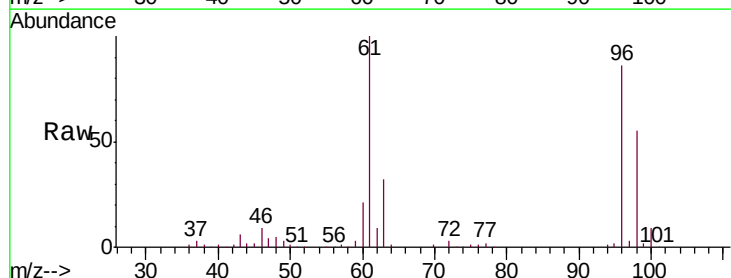
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

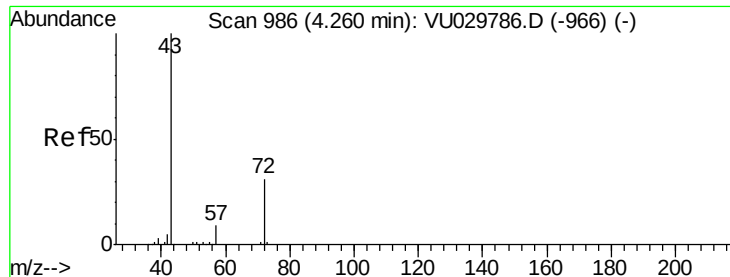
Tgt Ion: 63 Resp: 281729
 Ion Ratio Lower Upper
 63 100
 65 33.1 22.3 41.3
 83 14.0 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 52.171 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

Tgt Ion: 96 Resp: 184746
 Ion Ratio Lower Upper
 96 100
 61 116.6 83.9 155.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 109.182 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

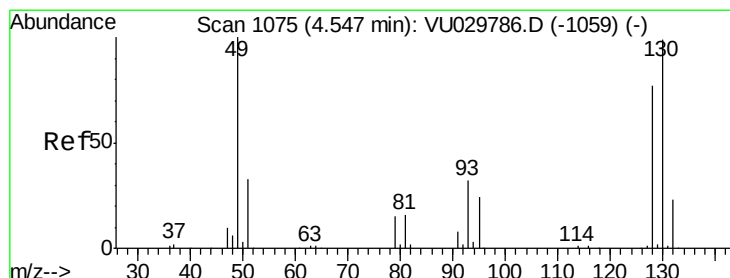
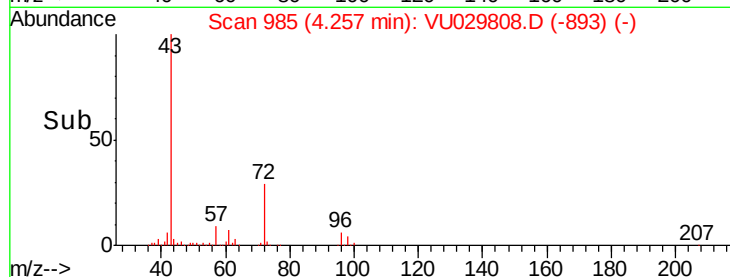
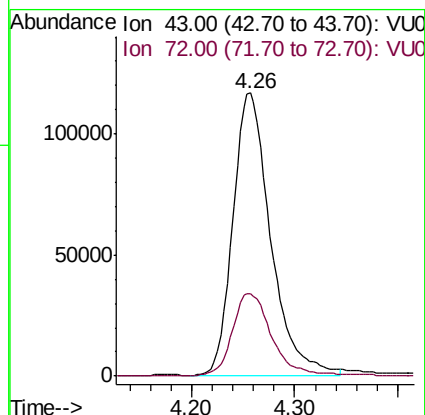
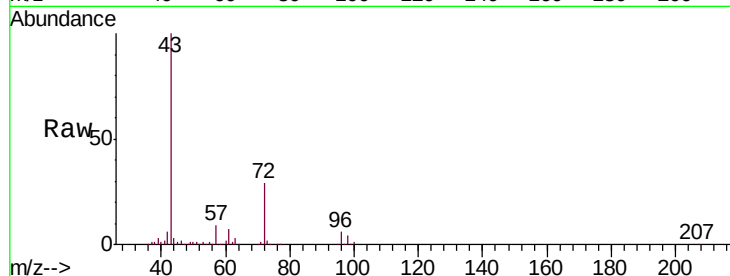
VSTD05049

Tgt Ion: 43 Resp: 296046

Ion Ratio Lower Upper

43 100

72 30.4 15.2 45.6



#23

Bromochloromethane

Concen: 50.116 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Tgt Ion: 128 Resp: 97288

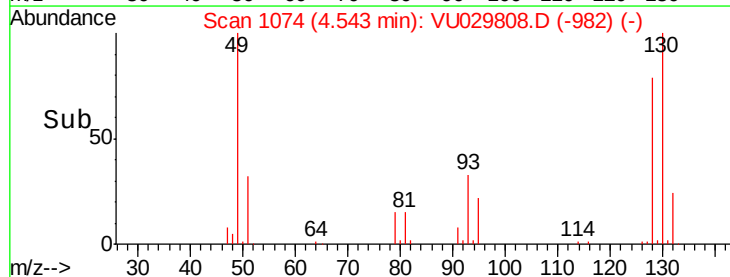
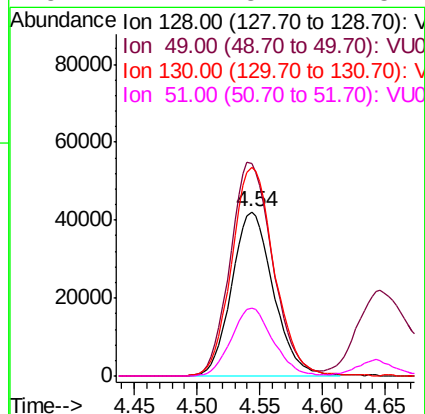
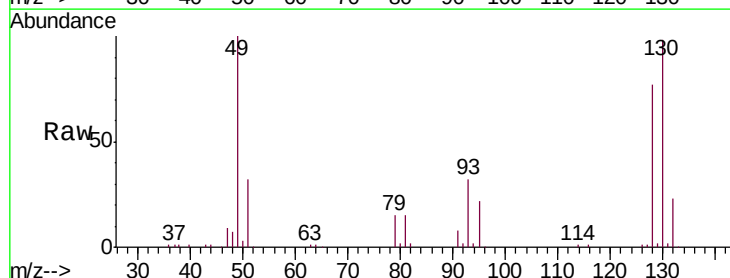
Ion Ratio Lower Upper

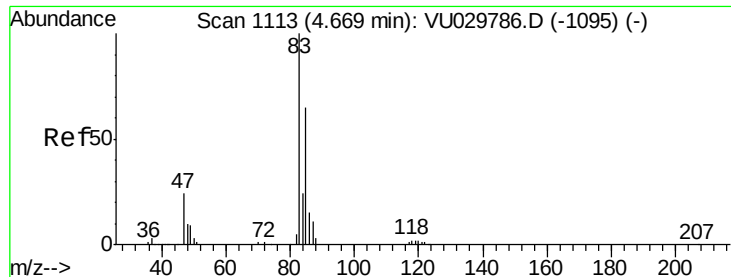
128 100

49 129.6 85.9 159.5

130 126.9 91.3 169.5

51 41.7 32.2 48.2

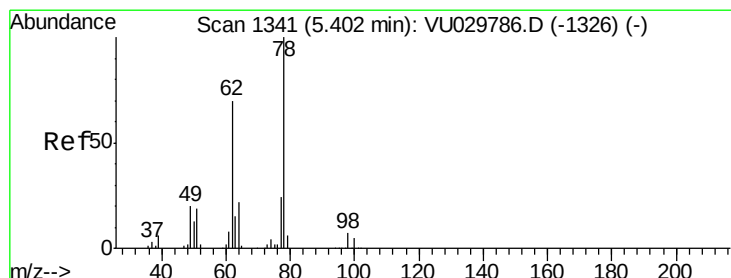
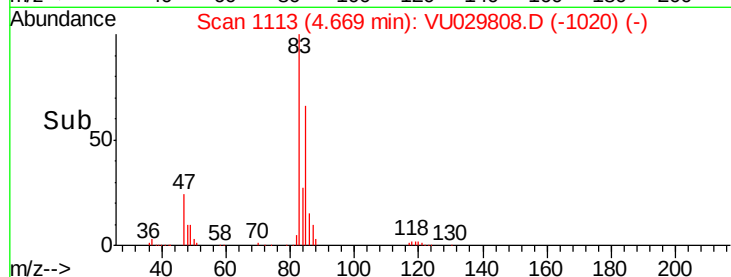
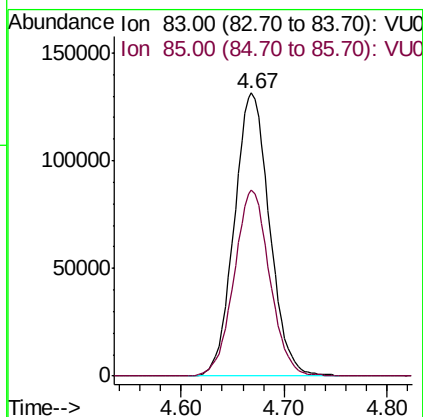
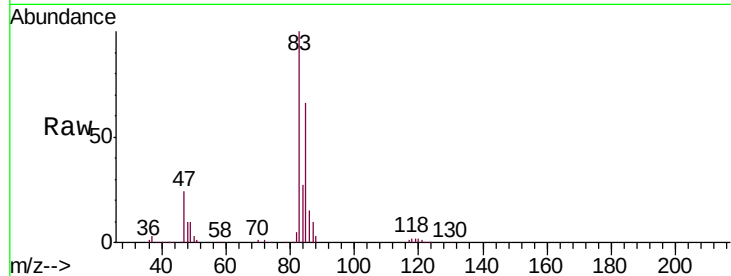




#25
Chloroform
Concen: 53.153 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

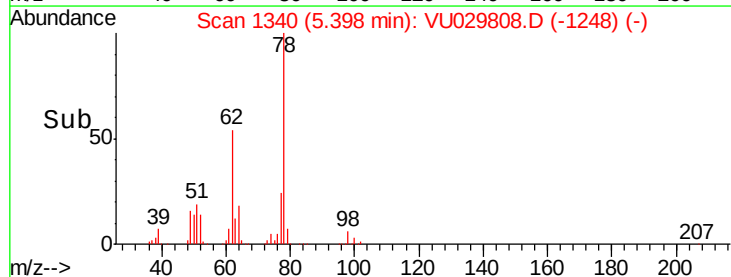
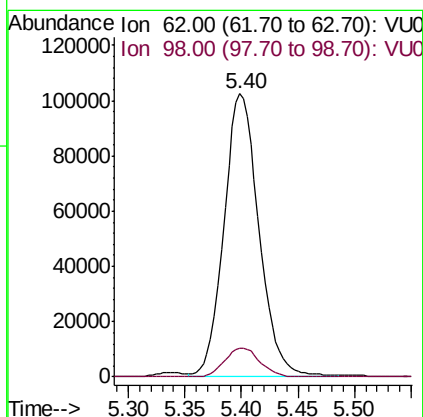
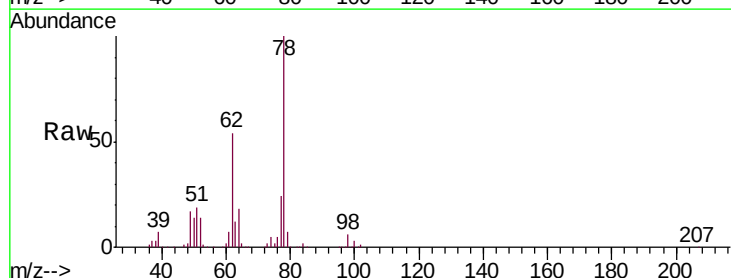
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

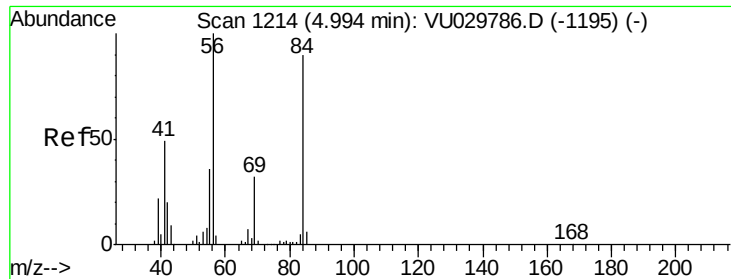
Tgt Ion: 83 Resp: 312516
Ion Ratio Lower Upper
83 100
85 65.9 45.4 84.2



#27
1,2-Dichloroethane
Concen: 48.576 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Tgt Ion: 62 Resp: 219583
Ion Ratio Lower Upper
62 100
98 10.2 7.8 11.8

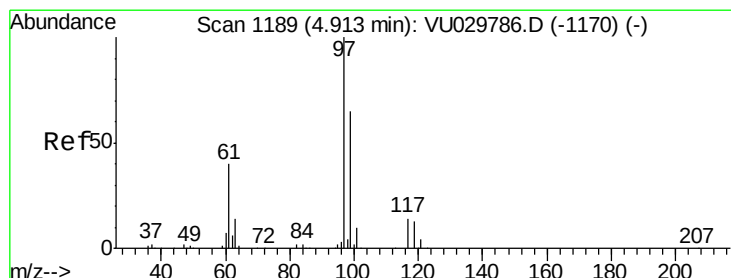
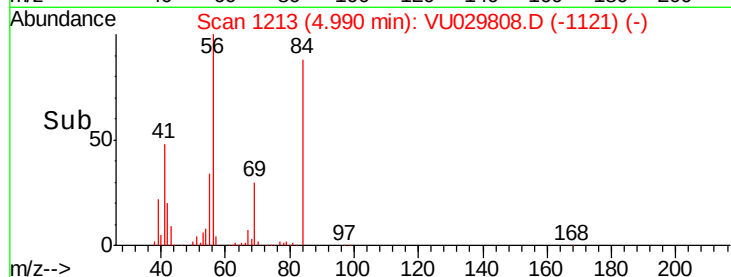
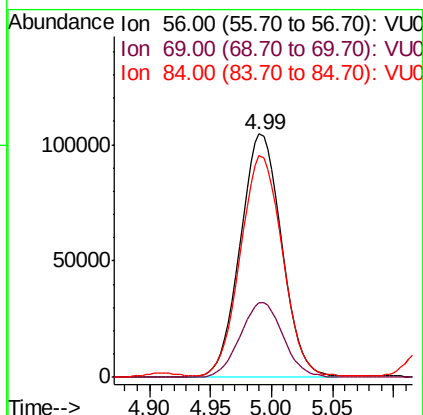
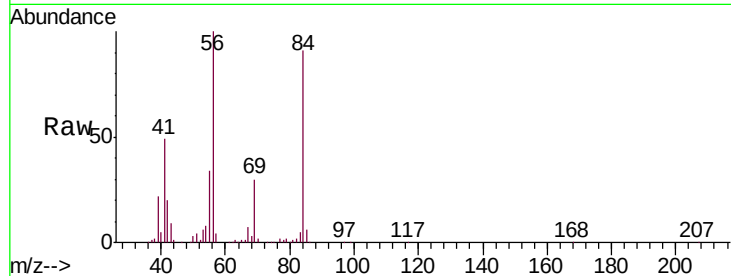




#29
Cyclohexane
Concen: 50.383 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

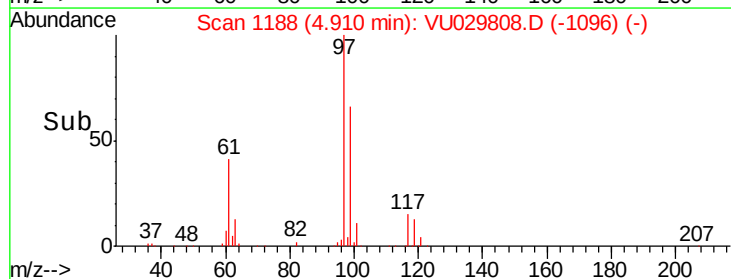
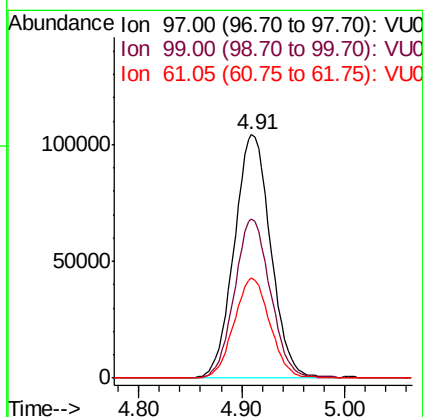
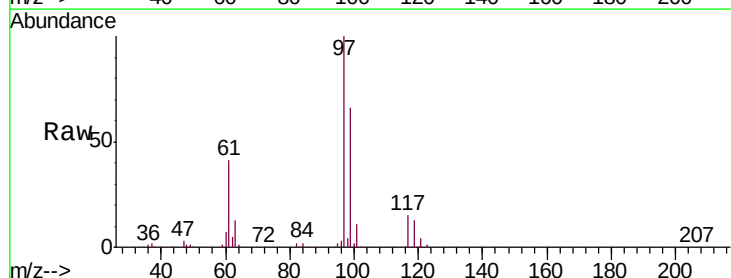
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

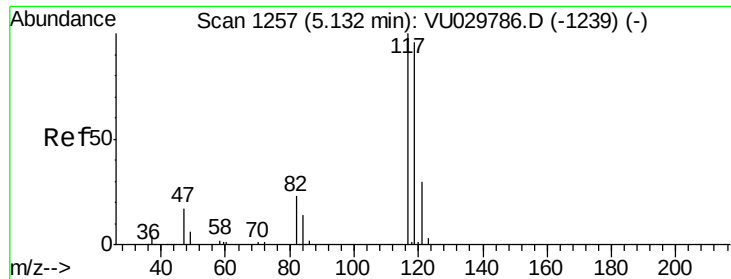
Tgt Ion: 56 Resp: 246522
Ion Ratio Lower Upper
56 100
69 31.6 25.7 38.5
84 92.9 77.1 115.7



#30
1,1,1-Trichloroethane
Concen: 48.932 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Tgt Ion: 97 Resp: 256524
Ion Ratio Lower Upper
97 100
99 64.2 51.4 77.0
61 40.5 32.3 48.5

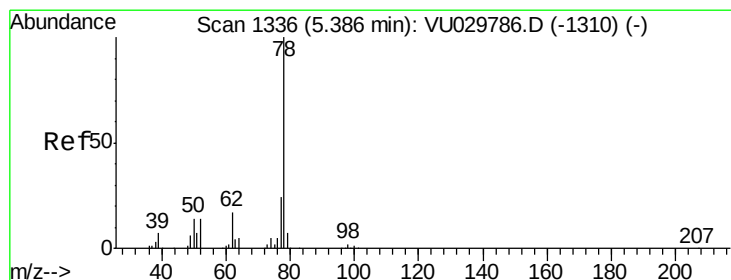
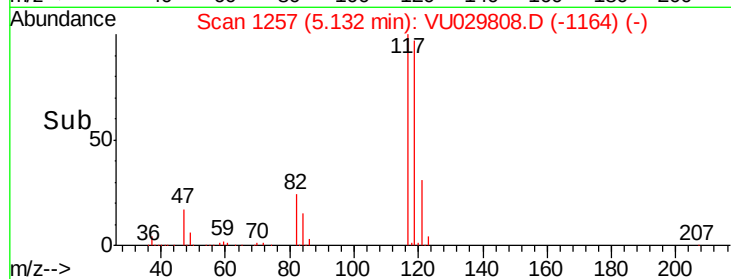
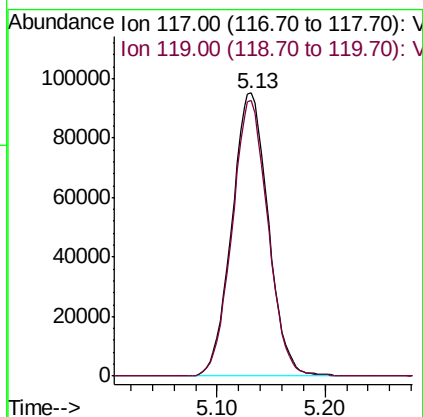
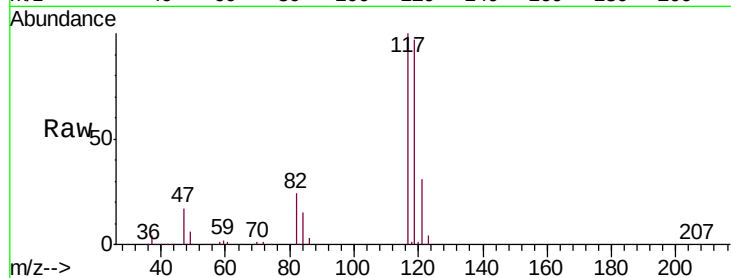




#31
Carbon tetrachloride
Concen: 47.170 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

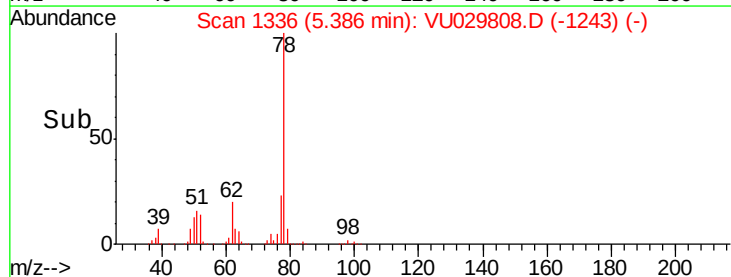
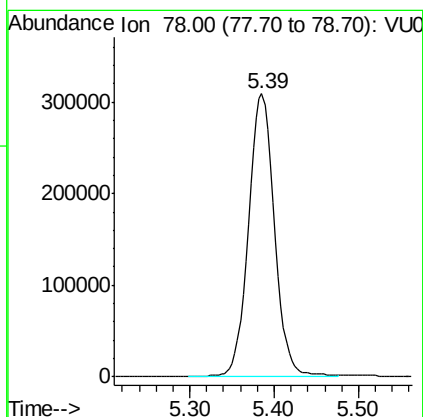
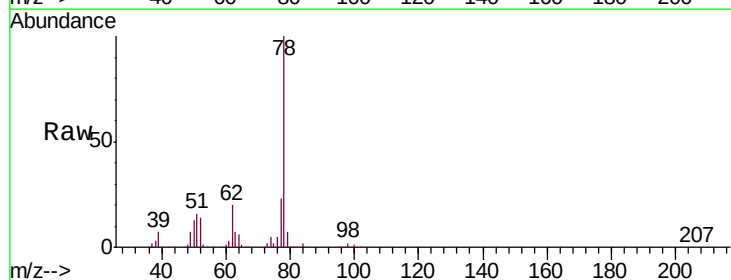
Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

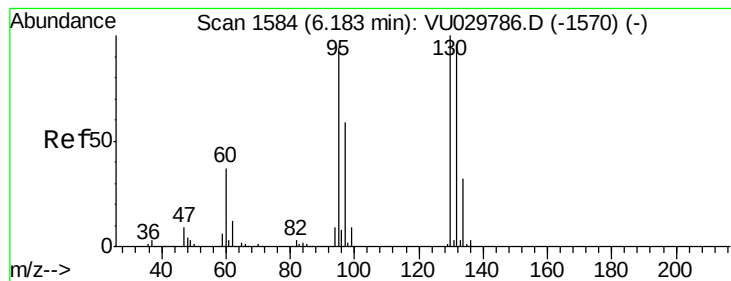
Tgt Ion:117 Resp: 223818
Ion Ratio Lower Upper
117 100
119 95.8 77.8 116.8



#33
Benzene
Concen: 52.456 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Tgt Ion: 78 Resp: 664957





#34

Trichloroethene

Concen: 51.388 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

Tgt Ion: 95 Resp: 175486

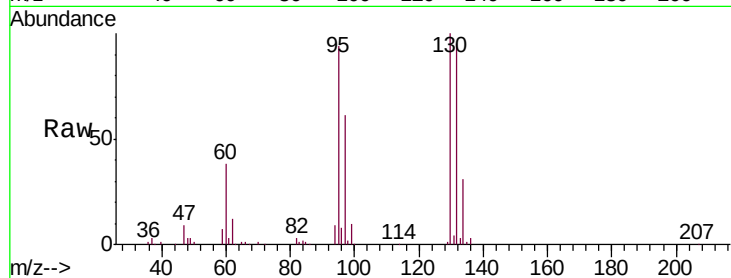
Ion Ratio Lower Upper

95 100

97 64.3 44.6 82.8

132 100.6 74.6 138.6

130 105.8 77.2 143.4



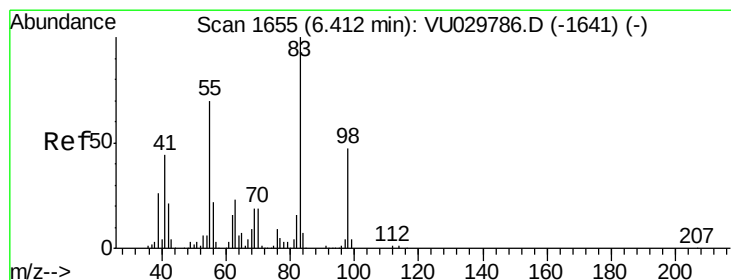
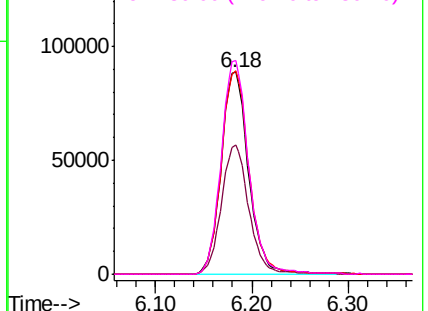
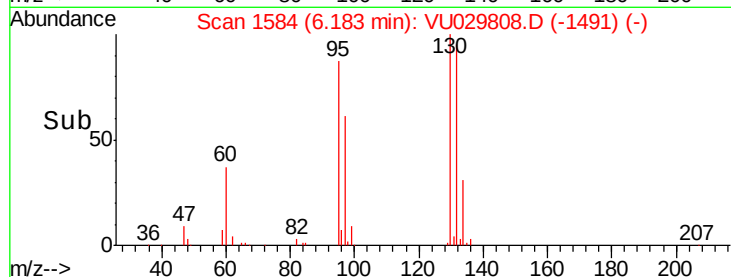
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 51.103 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

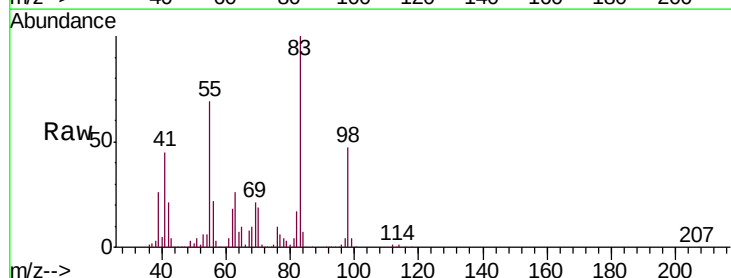
Tgt Ion: 83 Resp: 289812

Ion Ratio Lower Upper

83 100

55 69.1 55.2 82.8

98 46.6 39.4 59.2

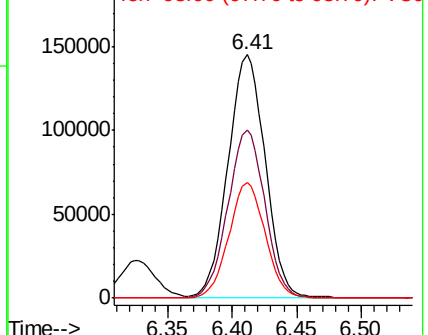
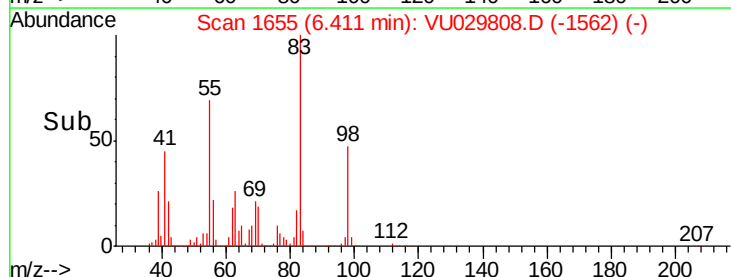


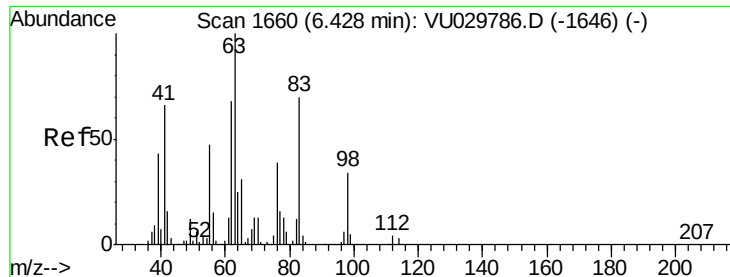
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

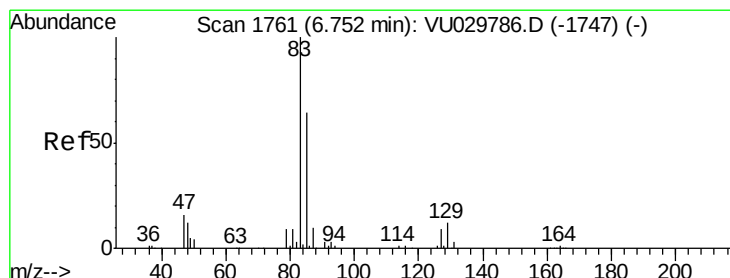
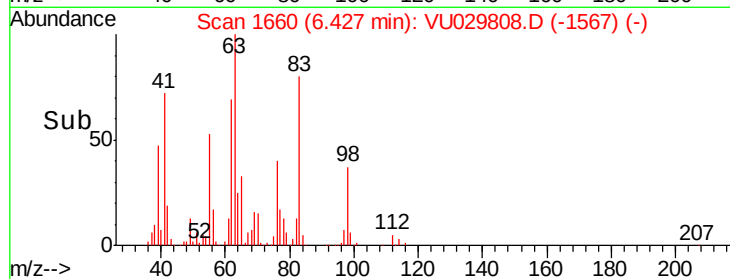
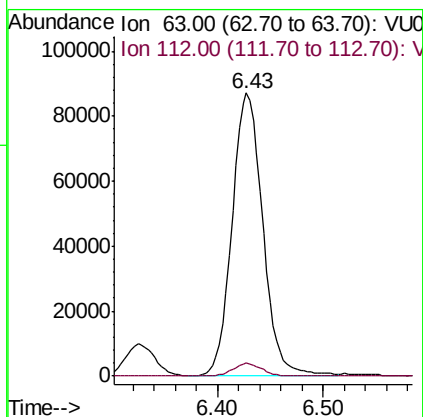
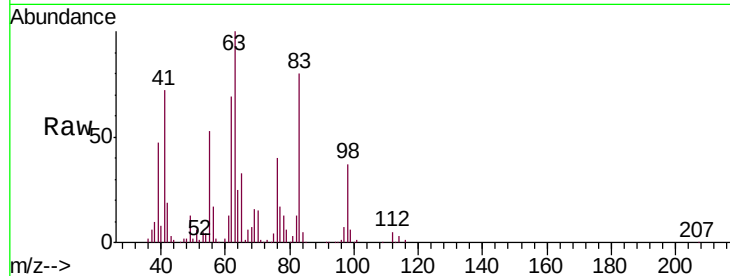




#37
 1,2-Dichloropropane
 Concen: 52.415 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

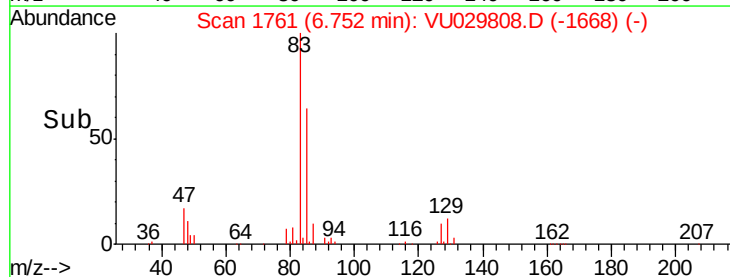
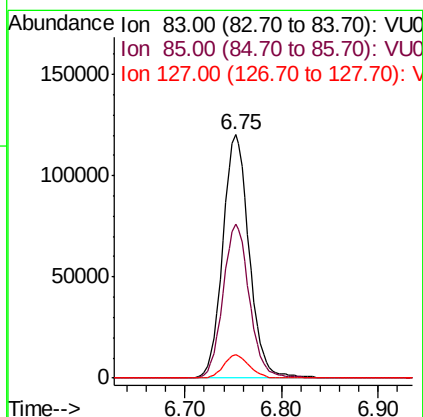
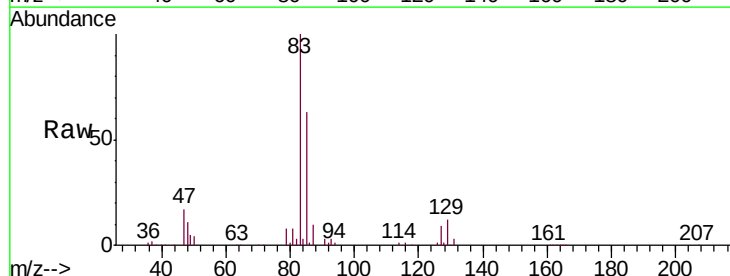
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

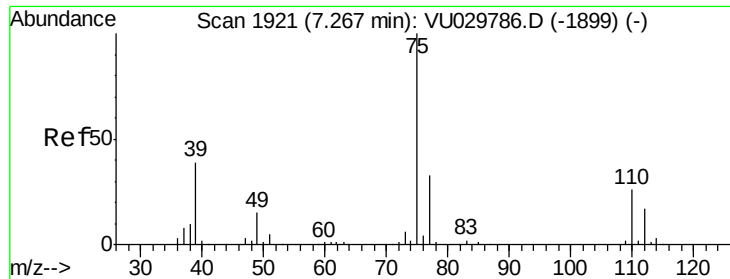
Tgt Ion: 63 Resp: 174416
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.6 5.4



#38
 Bromodichloromethane
 Concen: 50.670 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

Tgt Ion: 83 Resp: 227309
 Ion Ratio Lower Upper
 83 100
 85 63.0 44.2 82.0
 127 9.4 8.3 12.5

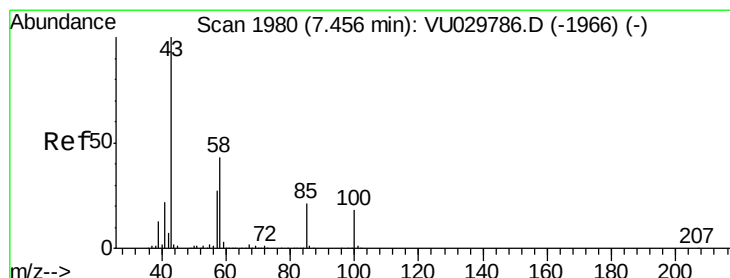
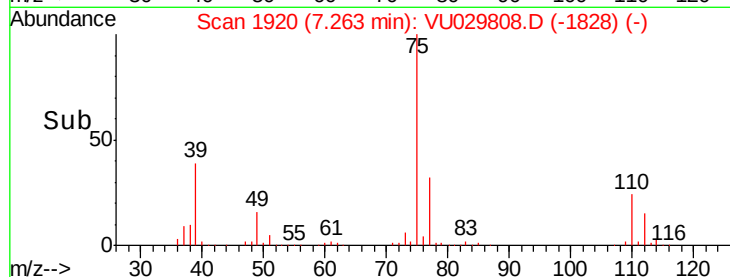
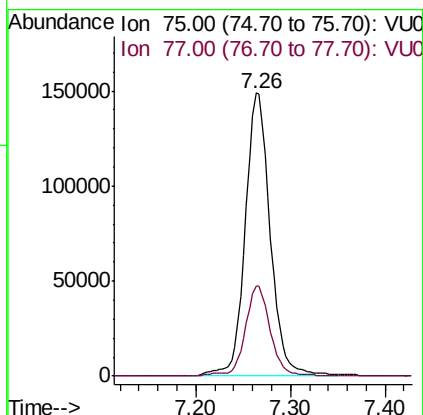
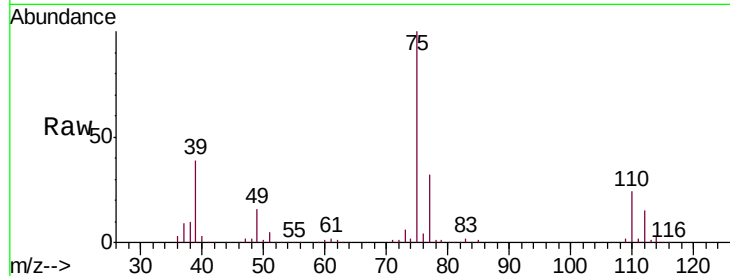




#39
 cis-1,3-Dichloropropene
 Concen: 51.119 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

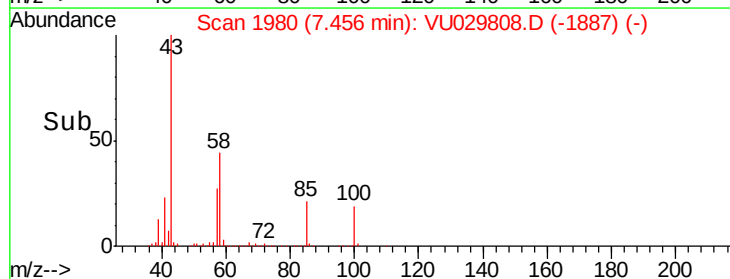
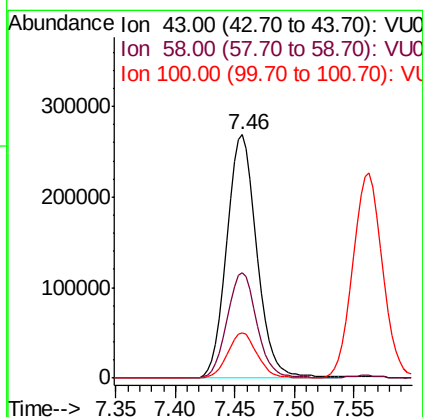
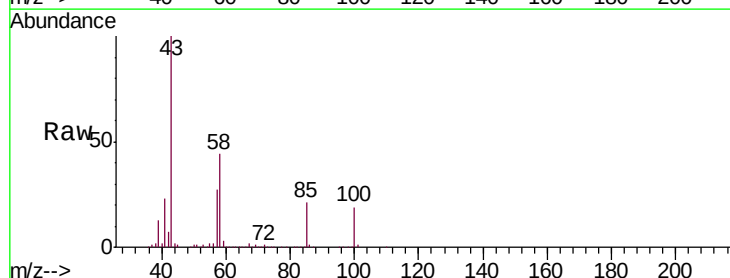
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

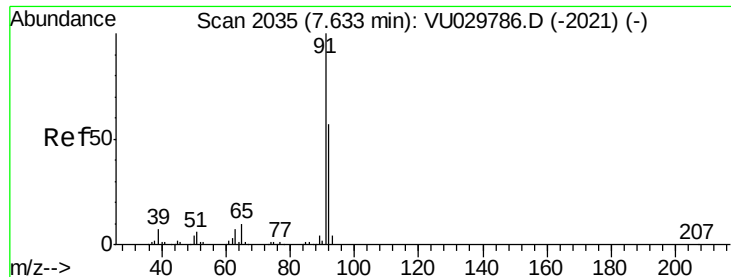
Tgt Ion: 75 Resp: 274448
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 100.920 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

Tgt Ion: 43 Resp: 472243
 Ion Ratio Lower Upper
 43 100
 58 42.9 33.0 49.4
 100 18.2 14.5 21.7





#42

Toluene

Concen: 48.996 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

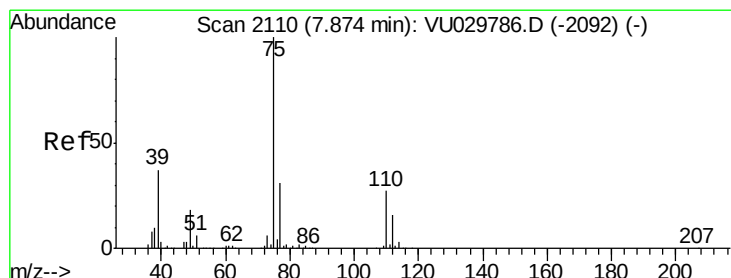
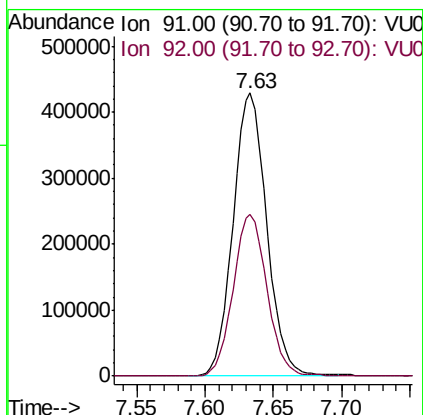
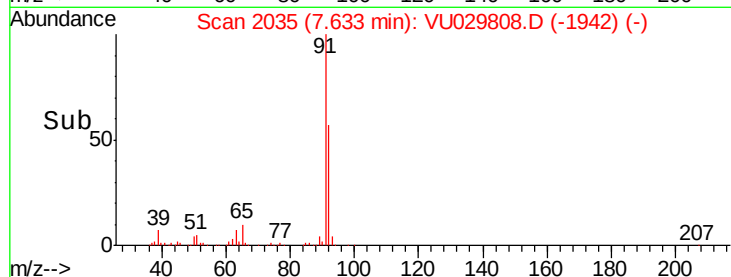
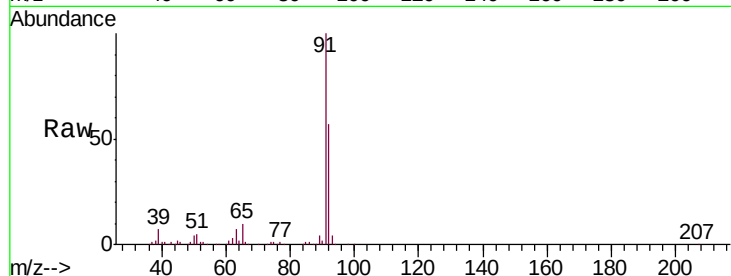
VSTD05049

Tgt Ion: 91 Resp: 734503

Ion Ratio Lower Upper

91 100

92 57.2 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 49.776 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU029808.D

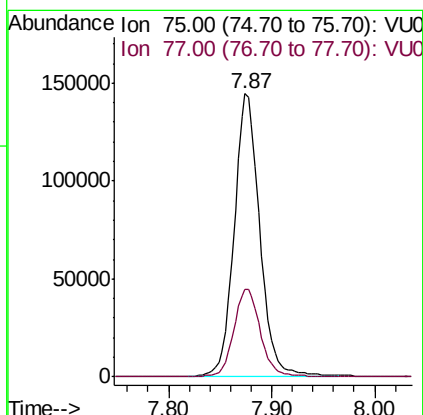
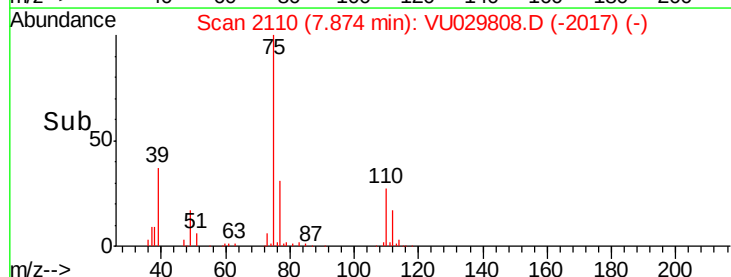
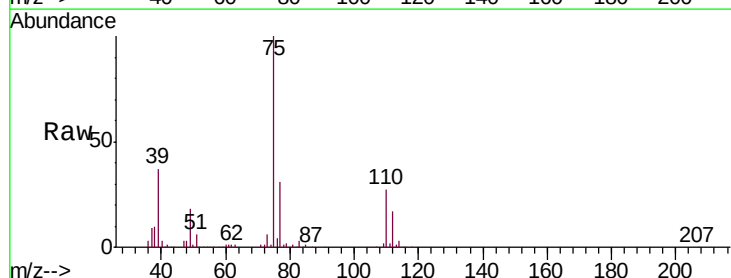
Acq: 05 Mar 2019 08:56

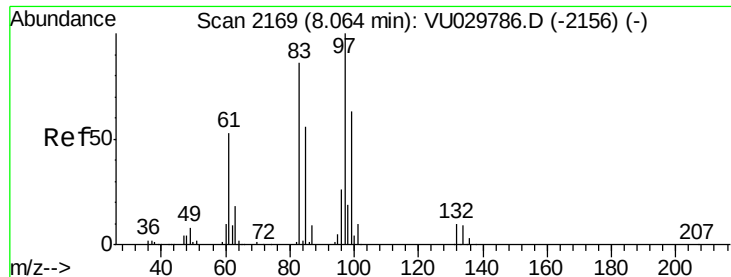
Tgt Ion: 75 Resp: 251853

Ion Ratio Lower Upper

75 100

77 30.9 22.1 41.1

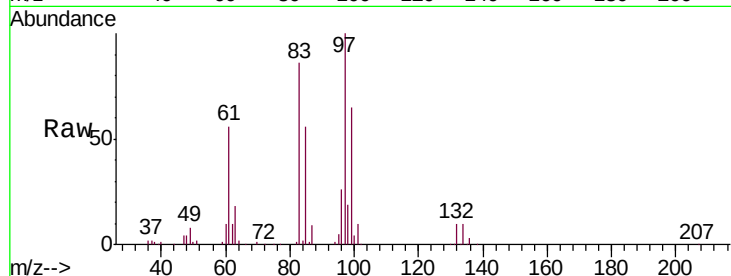




#45
 1,1,2-Trichloroethane
 Concen: 49.607 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD05049

Tgt Ion:	97	Resp:	175947
Ion	Ratio	Lower	Upper
97	100		
99	65.0	43.8	81.3
83	86.5	57.7	107.1
85	56.4	38.5	71.5



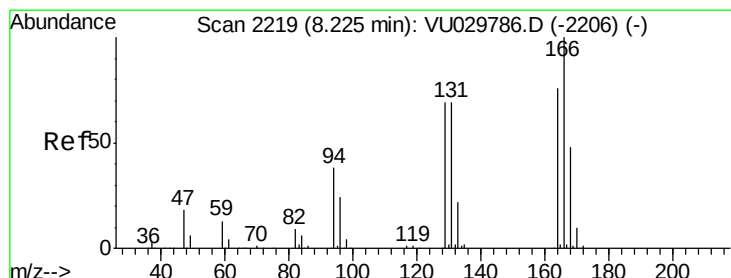
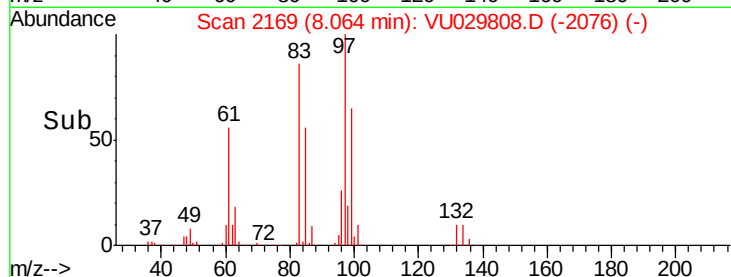
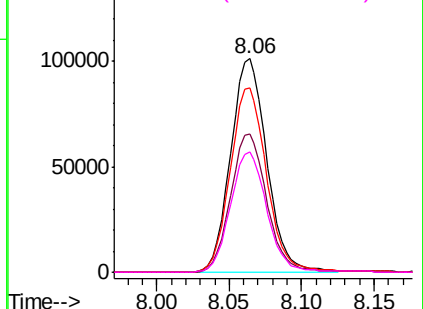
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

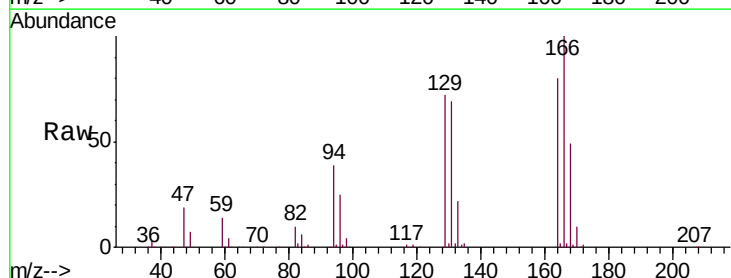
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 46.403 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

Tgt Ion:	164	Resp:	155098
Ion	Ratio	Lower	Upper
164	100		
129	90.1	62.1	115.3
131	87.2	60.1	111.5
166	125.7	89.7	166.5



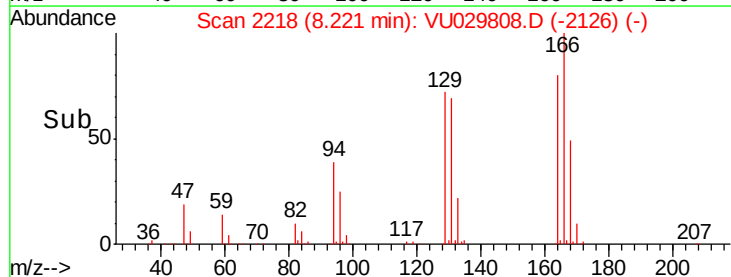
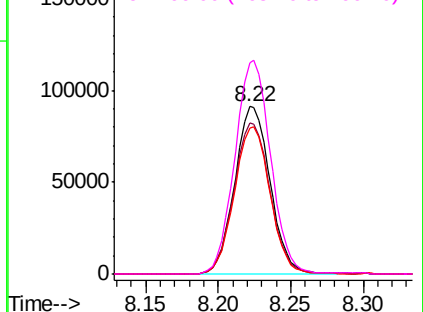
Abundance

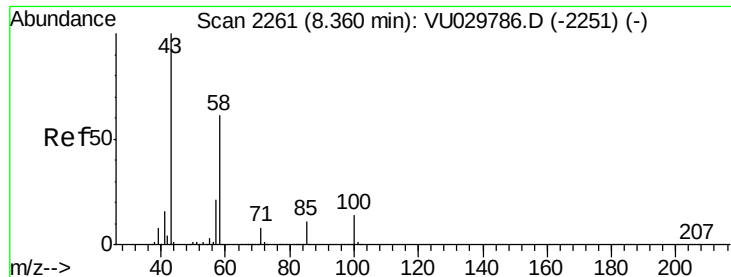
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

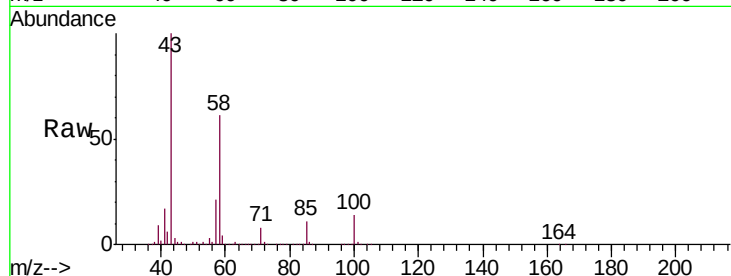




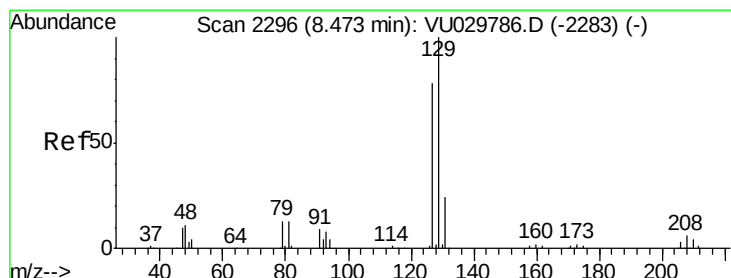
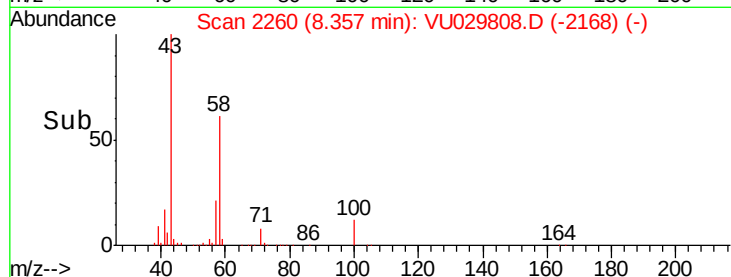
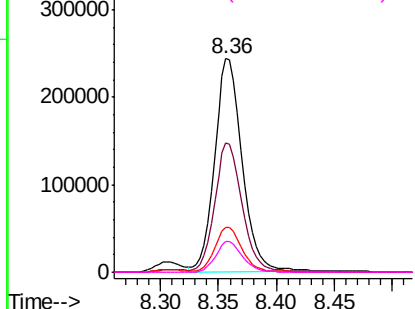
#48
2-Hexanone
Concen: 98.824 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tgt Ion:	43	Resp:	403971
Ion	Ratio	Lower	Upper
43	100		
58	59.0	46.4	69.6
57	20.8	15.7	23.5
100	14.1	10.9	16.3

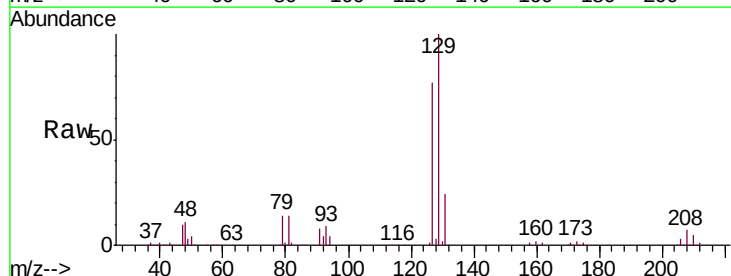


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

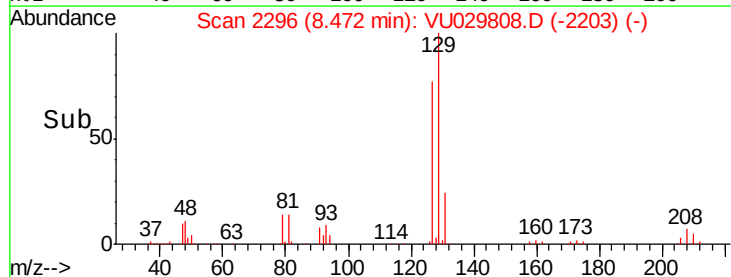
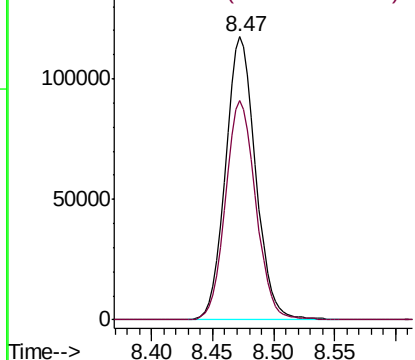


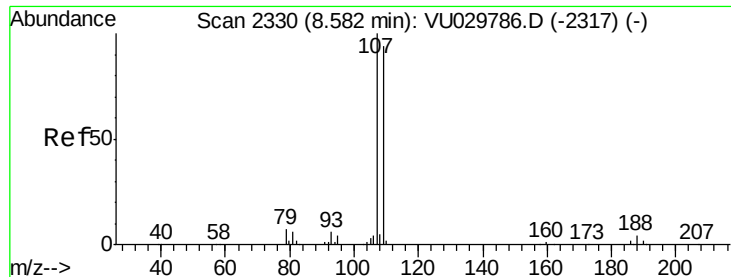
#49
Dibromochloromethane
Concen: 47.249 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Tgt Ion:	129	Resp:	203164
Ion	Ratio	Lower	Upper
129	100		
127	77.4	54.4	101.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

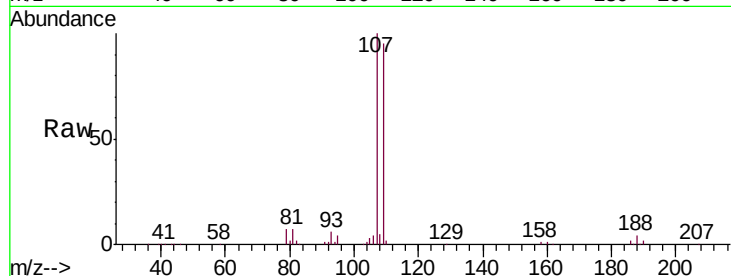




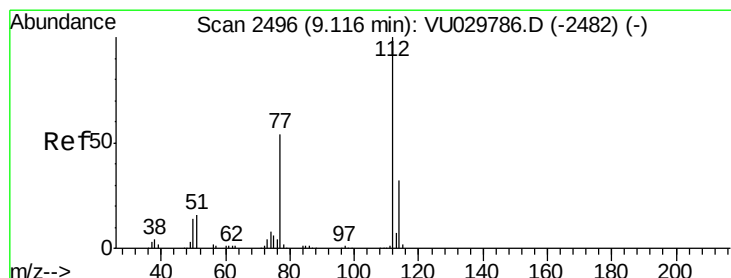
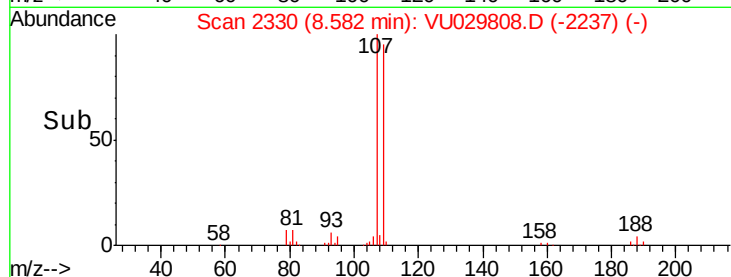
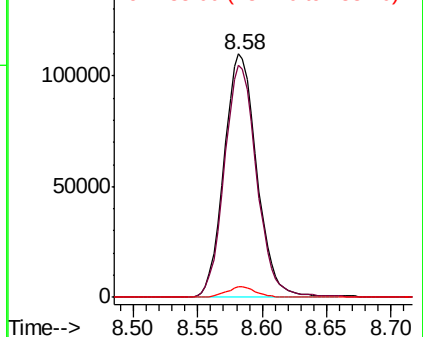
#50
1,2-Dibromoethane
Concen: 49.397 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tgt Ion:107 Resp: 194113
Ion Ratio Lower Upper
107 100
109 95.2 66.4 123.4
188 4.1 3.5 5.3

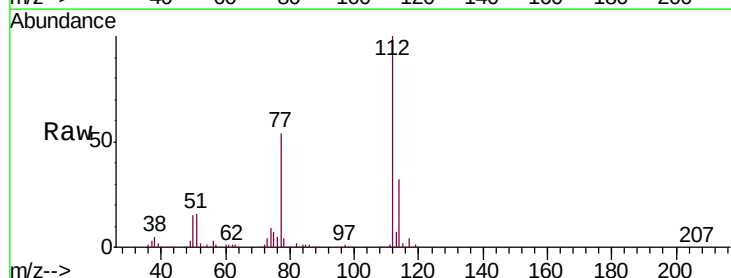


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

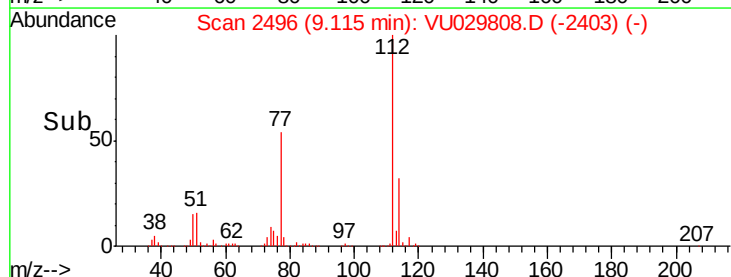
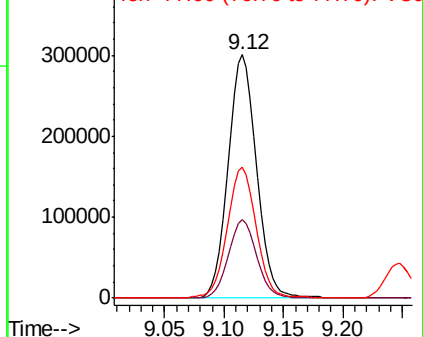


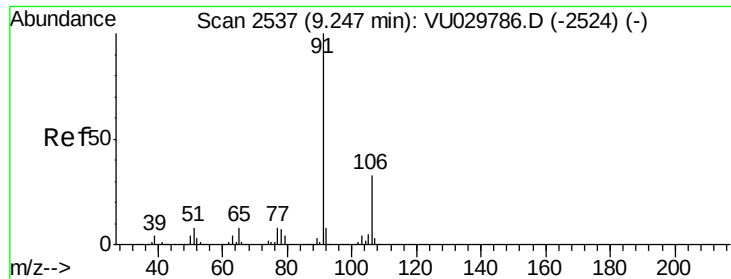
#51
Chlorobenzene
Concen: 48.472 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Tgt Ion:112 Resp: 498738
Ion Ratio Lower Upper
112 100
114 32.1 22.7 42.1
77 53.5 42.1 63.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 48.130 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

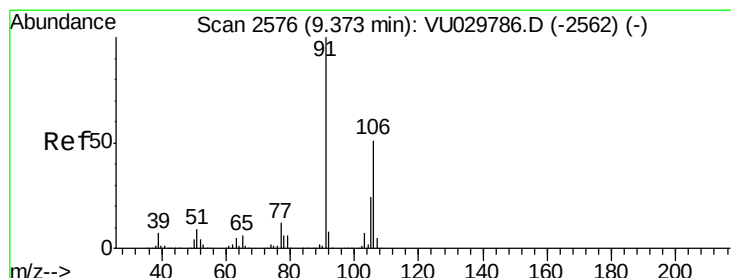
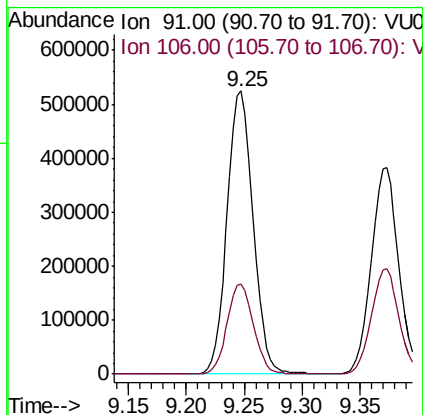
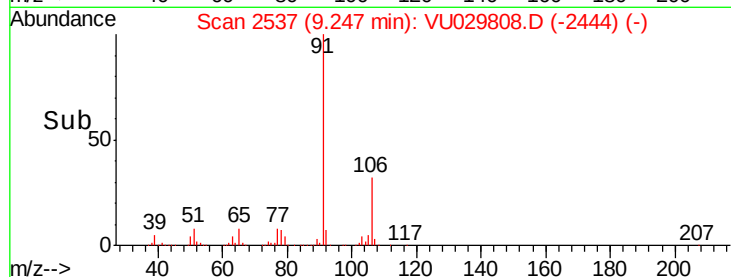
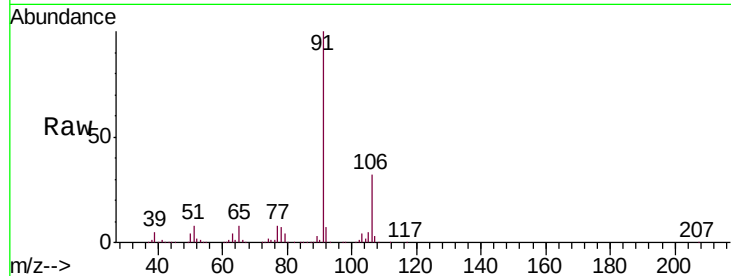
VSTD05049

Tgt Ion: 91 Resp: 819457

Ion Ratio Lower Upper

91 100

106 32.0 22.7 42.1



#53

m,p-Xylene

Concen: 47.290 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU029808.D

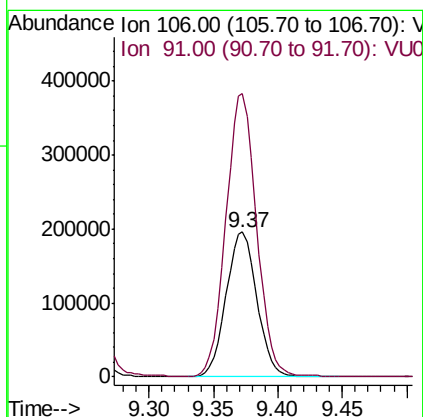
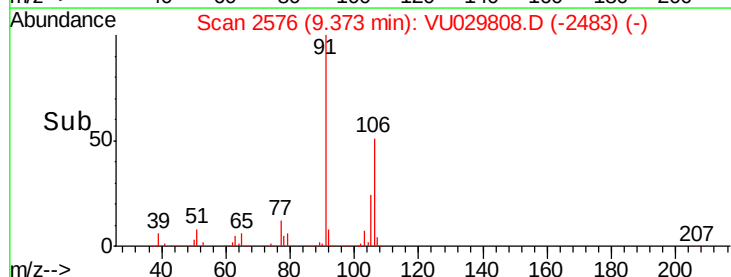
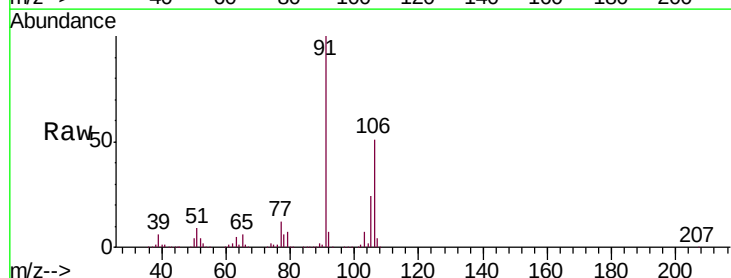
Acq: 05 Mar 2019 08:56

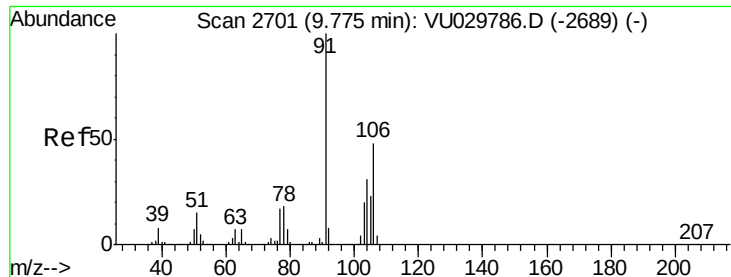
Tgt Ion: 106 Resp: 323202

Ion Ratio Lower Upper

106 100

91 195.7 135.3 251.3

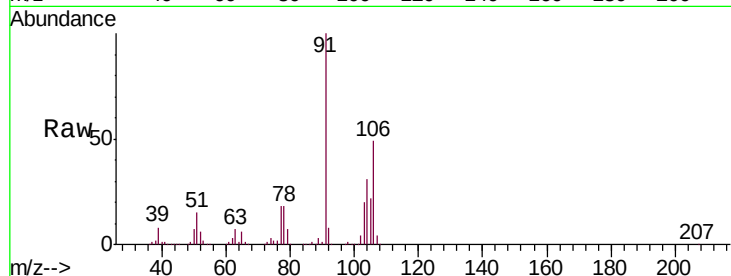




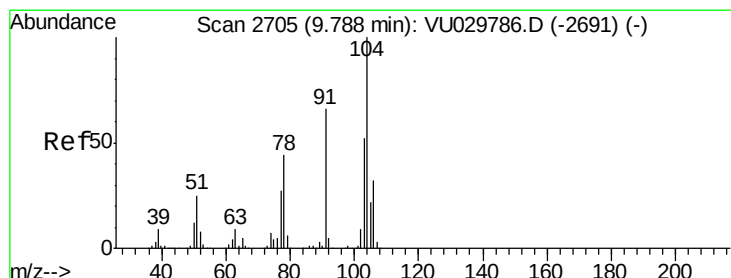
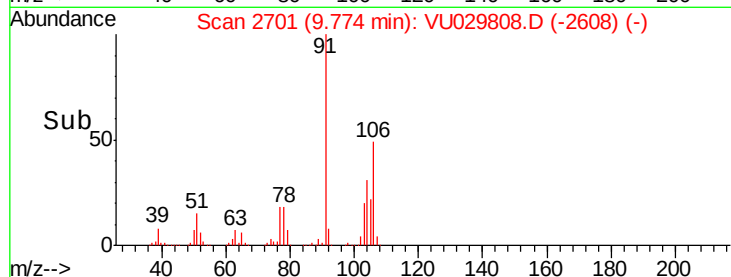
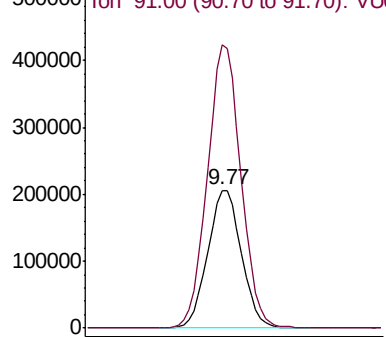
#54
o-xylene
Concen: 46.939 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Instrument :
MSVOA_U
ClientSampleId :
VSTD05049

Tgt Ion:106 Resp: 322240
Ion Ratio Lower Upper
106 100
91 205.5 144.5 268.3

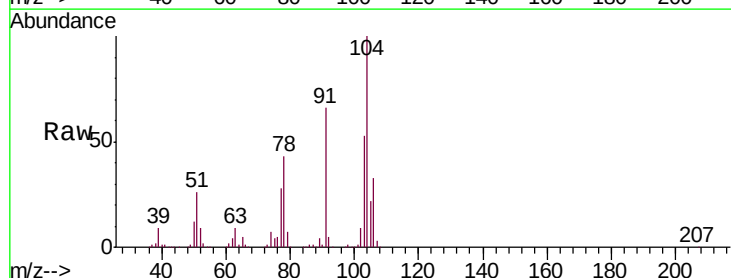


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

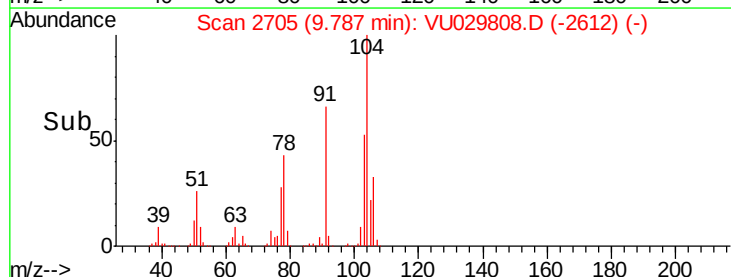
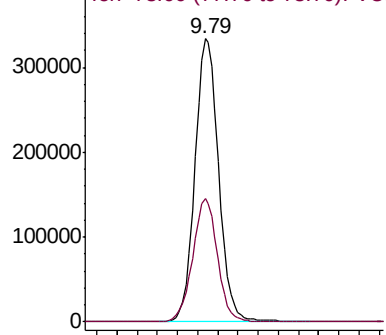


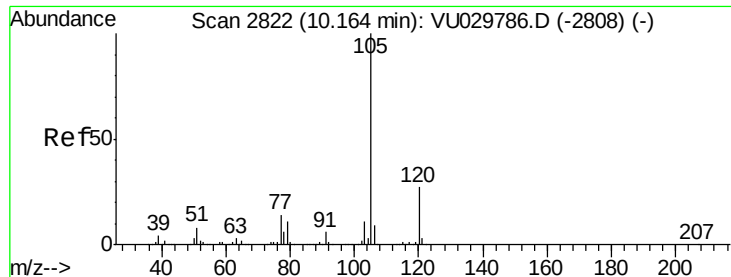
#55
Styrene
Concen: 47.264 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU029808.D
Acq: 05 Mar 2019 08:56

Tgt Ion:104 Resp: 547740
Ion Ratio Lower Upper
104 100
78 43.5 31.3 58.1



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





#56

Isopropylbenzene

Concen: 46.371 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

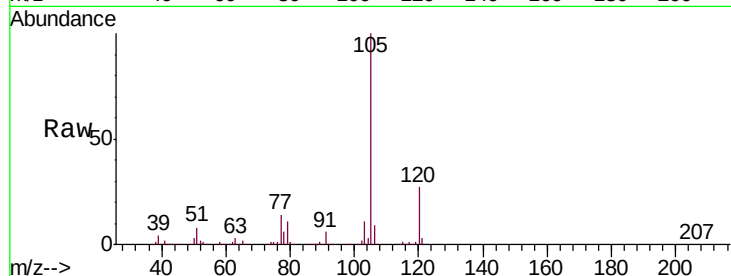
Tgt Ion: 105 Resp: 833014

Ion Ratio Lower Upper

105 100

120 27.2 21.9 32.9

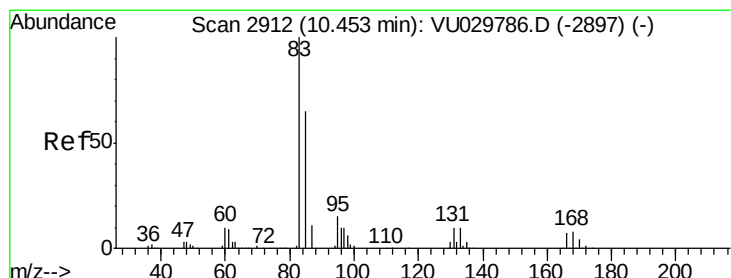
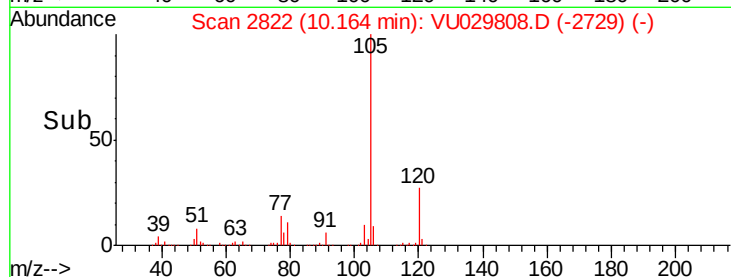
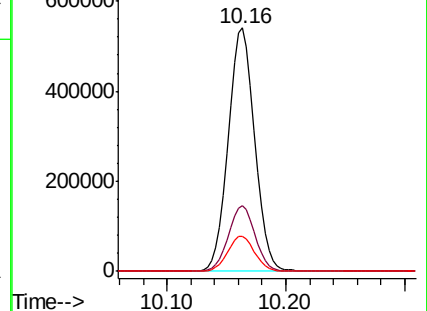
77 14.6 11.7 17.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.599 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

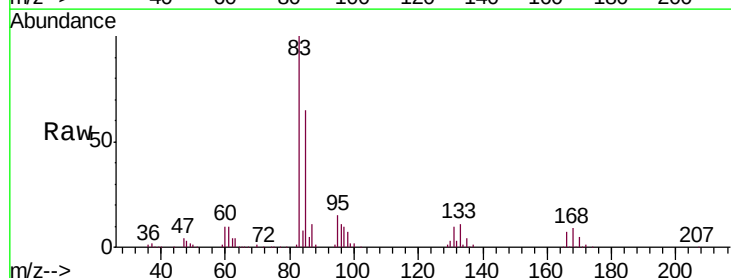
Tgt Ion: 83 Resp: 311080

Ion Ratio Lower Upper

83 100

85 65.1 45.5 84.5

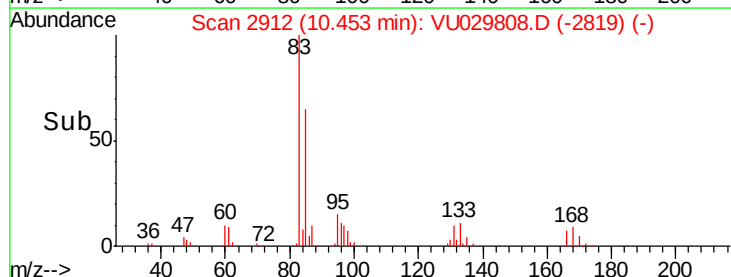
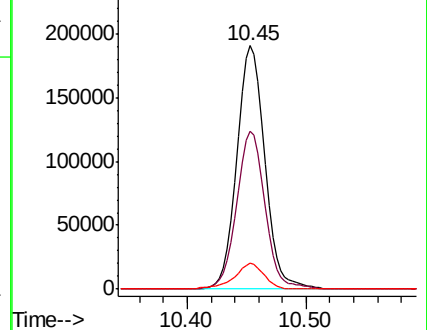
131 10.4 8.6 12.8

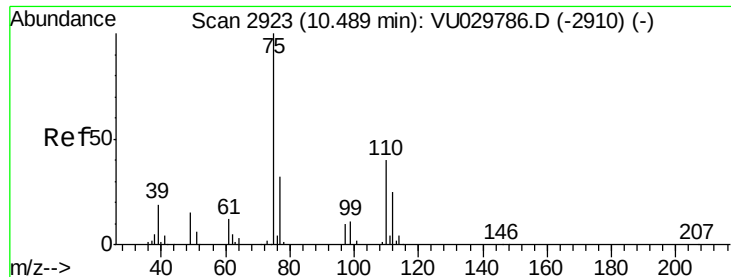


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.897 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

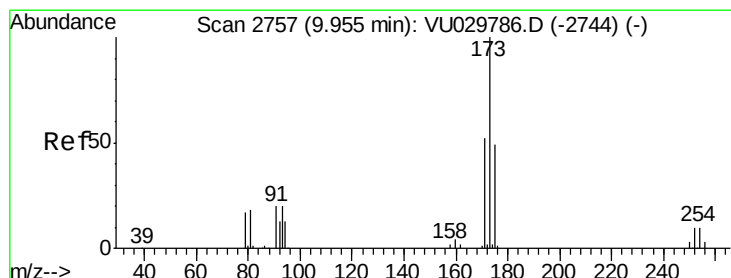
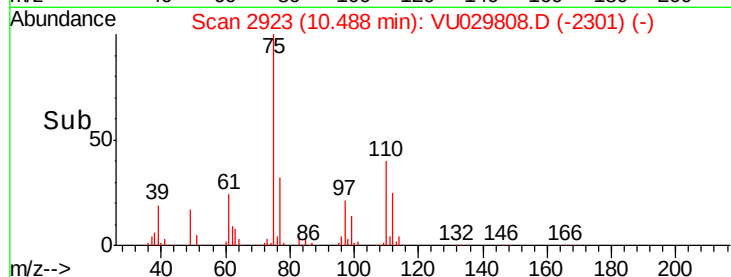
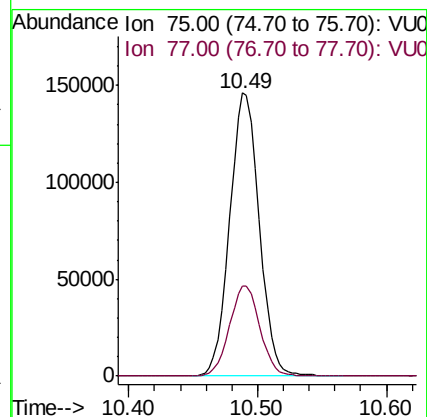
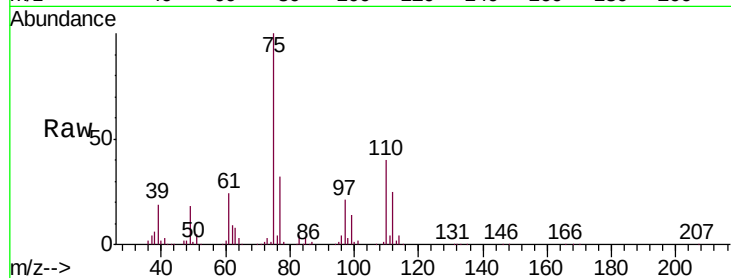
VSTD05049

Tgt Ion: 75 Resp: 231996

Ion Ratio Lower Upper

75 100

77 32.8 25.7 38.5



#61

Bromoform

Concen: 47.241 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

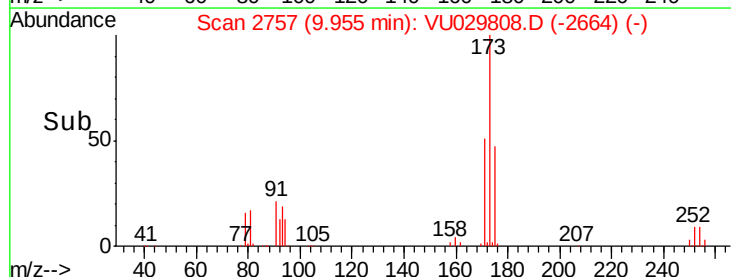
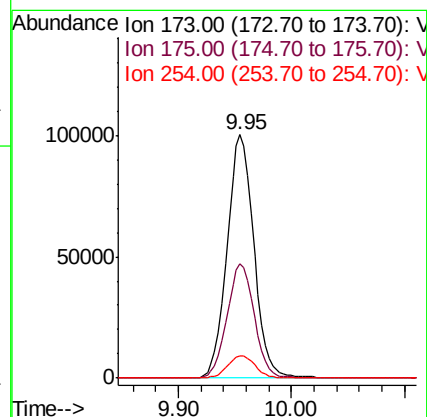
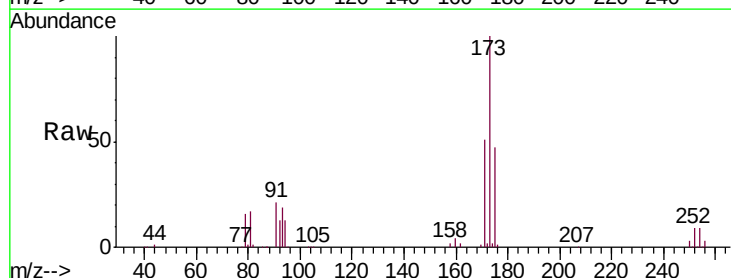
Tgt Ion: 173 Resp: 165379

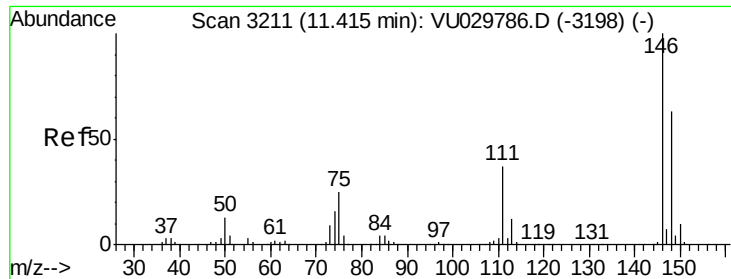
Ion Ratio Lower Upper

173 100

175 47.6 39.0 58.4

254 9.4 8.1 12.1

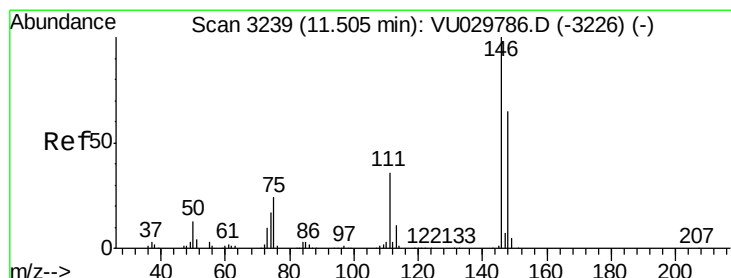
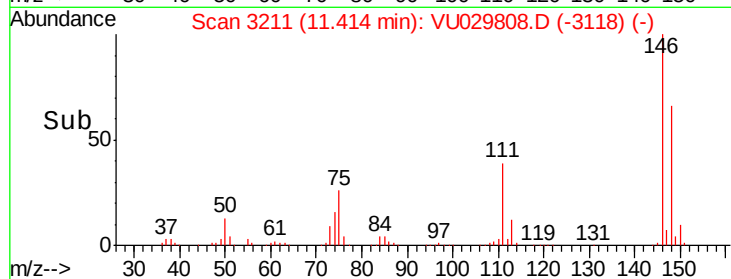
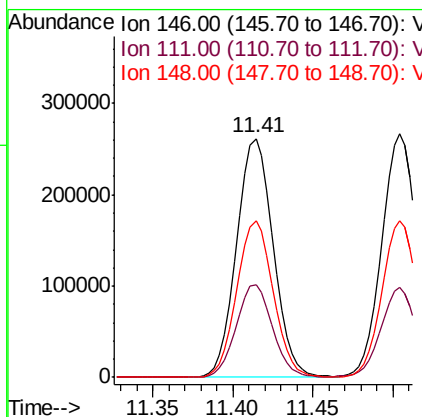
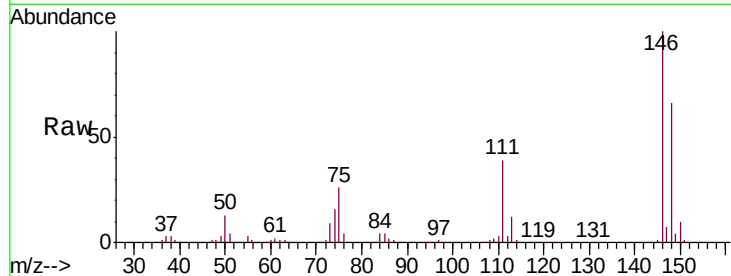




#62
 1,3-Dichlorobenzene
 Concen: 49.229 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

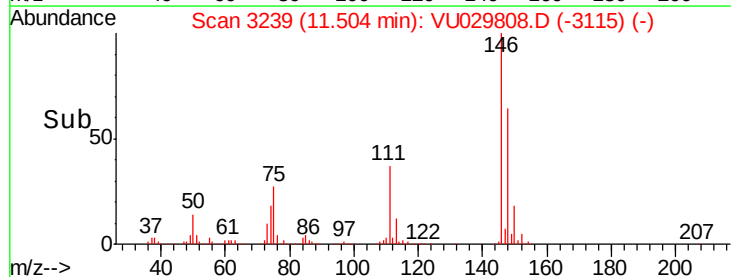
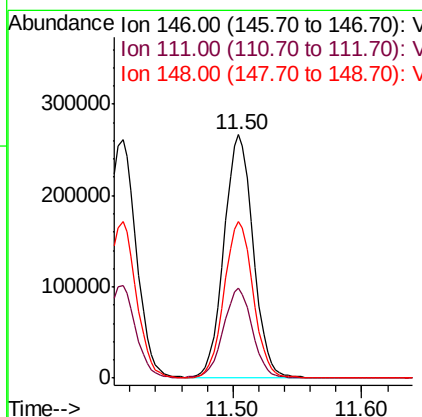
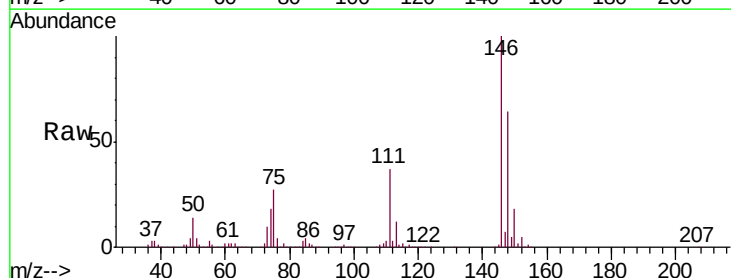
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

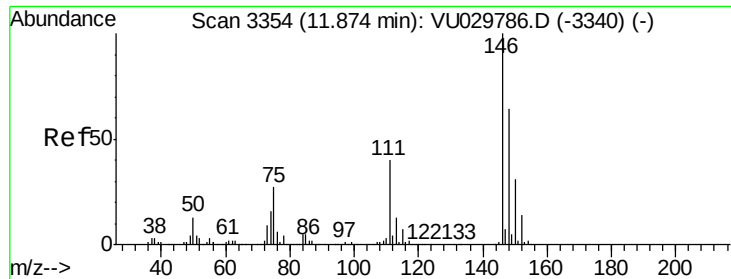
Tgt Ion:146 Resp: 408033
 Ion Ratio Lower Upper
 146 100
 111 38.9 26.7 49.5
 148 65.6 45.9 85.3



#63
 1,4-Dichlorobenzene
 Concen: 50.113 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

Tgt Ion:146 Resp: 417996
 Ion Ratio Lower Upper
 146 100
 111 36.9 25.1 46.5
 148 64.5 45.0 83.6

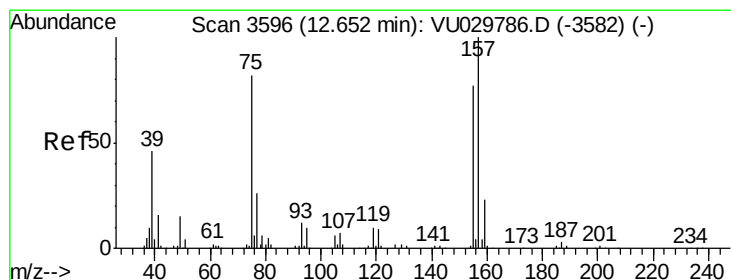
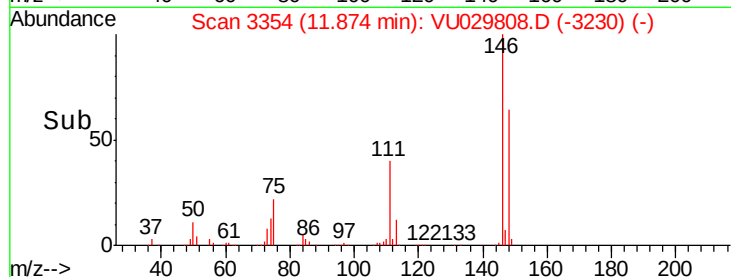
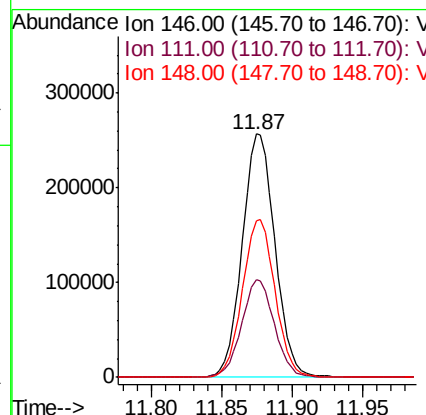
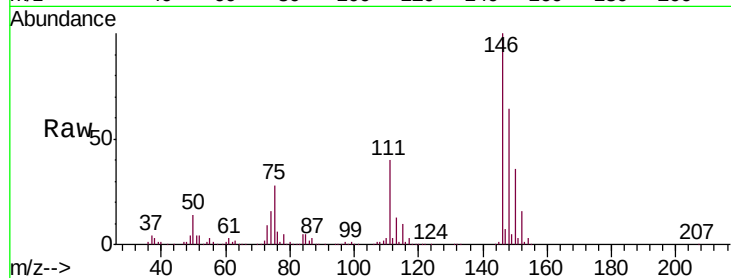




#65
 1,2-Dichlorobenzene
 Concen: 48.398 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

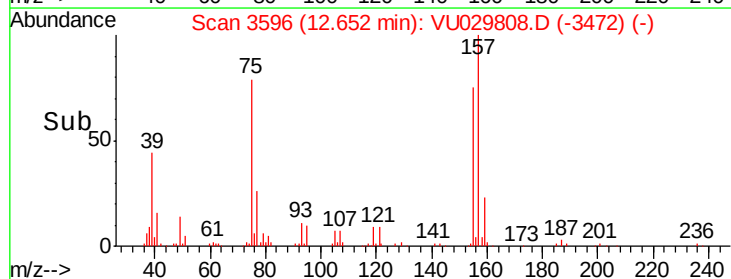
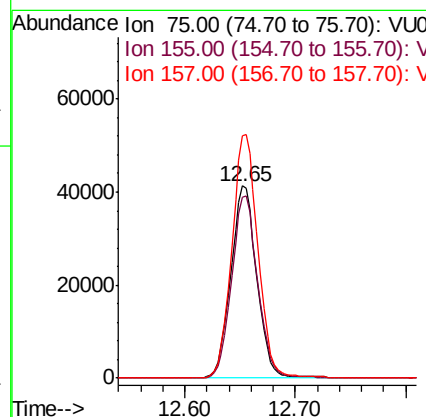
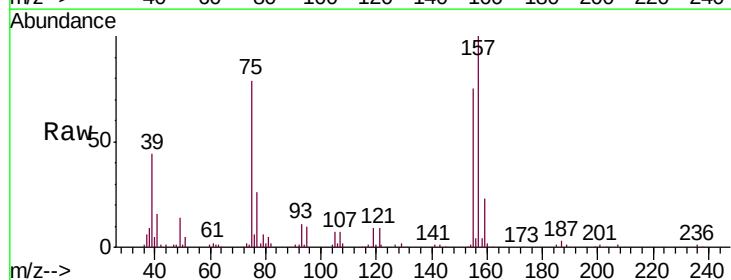
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

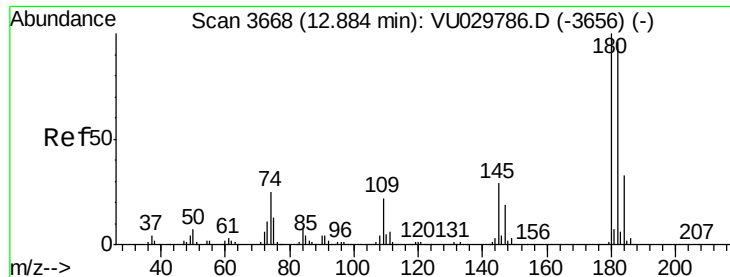
Tgt Ion: 146 Resp: 418735
 Ion Ratio Lower Upper
 146 100
 111 40.1 31.2 46.8
 148 64.2 51.6 77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.139 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

Tgt Ion: 75 Resp: 67506
 Ion Ratio Lower Upper
 75 100
 155 94.5 79.5 119.3
 157 125.9 103.4 155.0

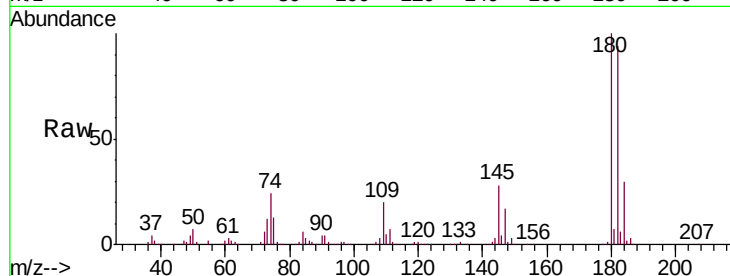




#67
 1,3,5-Trichlorobenzene
 Concen: 51.257 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05049

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	77.9	116.9
184	30.6	24.5	36.7
145	28.0	22.4	33.6



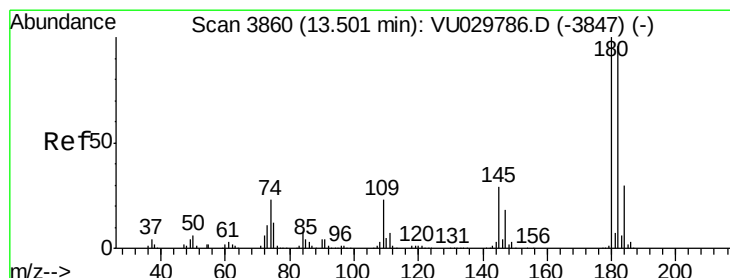
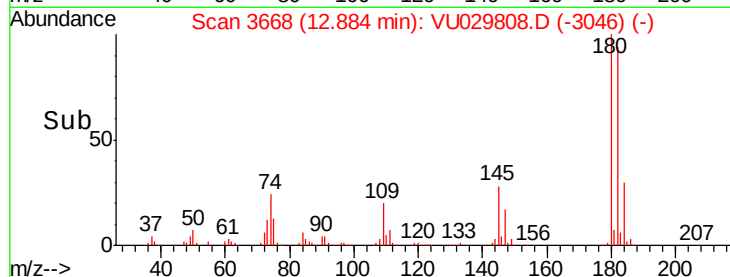
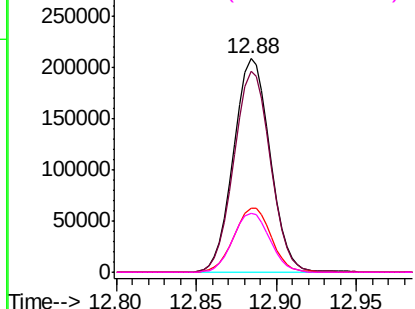
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

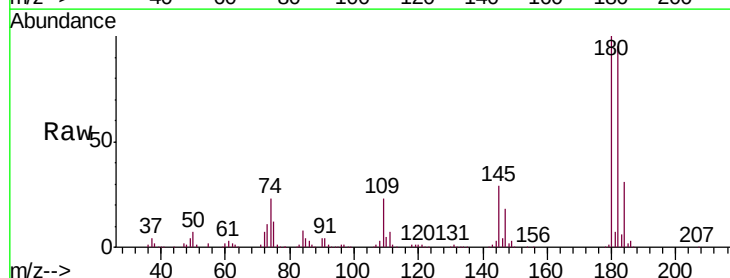
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.601 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU029808.D
 Acq: 05 Mar 2019 08:56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.2	114.2
145	29.1	22.7	34.1

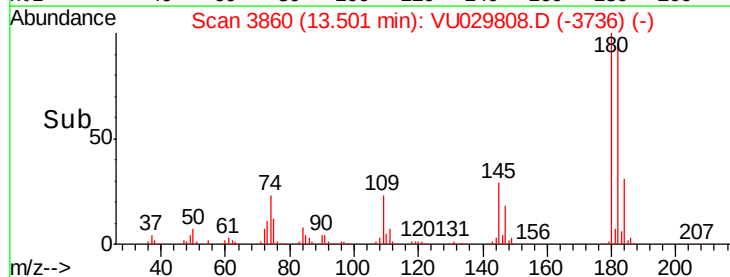
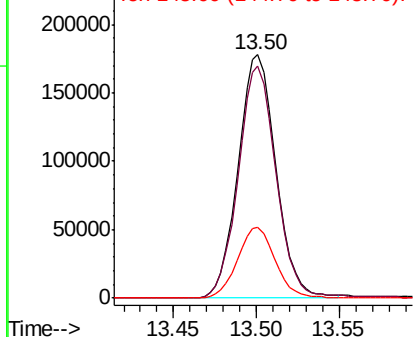


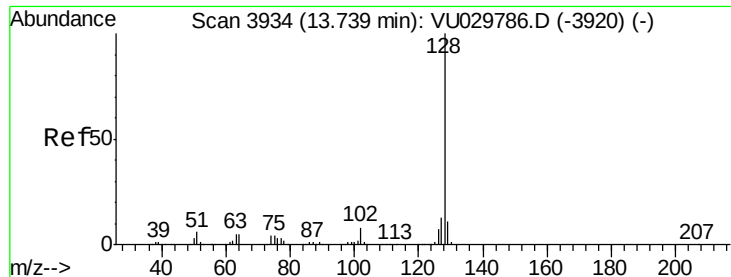
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 52.040 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

Instrument :

MSVOA_U

ClientSampleId :

VSTD05049

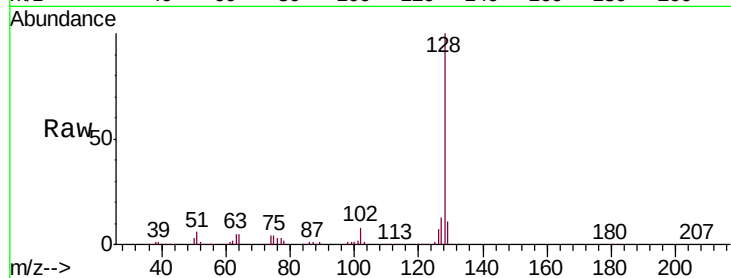
Tgt Ion:128 Resp: 875039

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

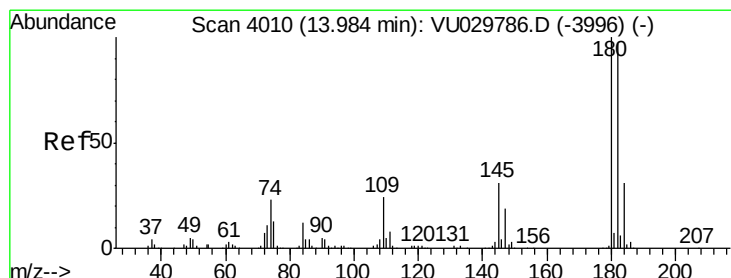
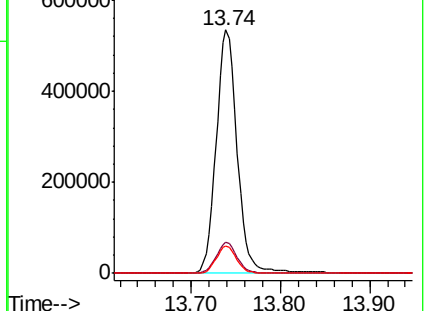
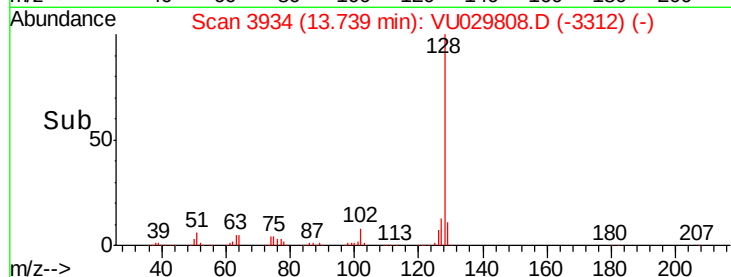
129 10.8 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.756 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU029808.D

Acq: 05 Mar 2019 08:56

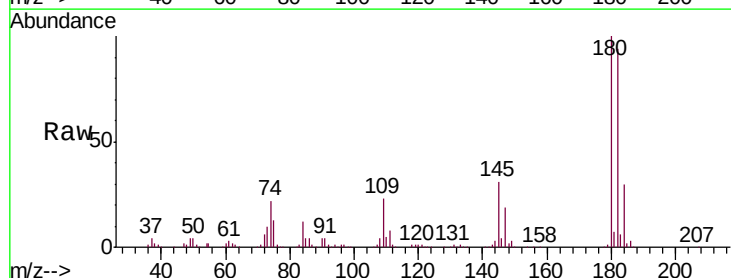
Tgt Ion:180 Resp: 294858

Ion Ratio Lower Upper

180 100

182 93.5 76.8 115.2

145 30.0 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

