

Data File : VU028932.D
Acq On : 24 Dec 2018 08:59
Operator : MD/SY
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

Quant Time: Dec 24 23:57:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Dec 22 01:55:05 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	272519	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	255811	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	127252	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	86287	39.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.98%
7) Chloroethane-d5	1.67	69	71337	42.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.54%
11) 1,1-Dichloroethene-d2	2.27	63	169693	46.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.38%
21) 2-Butanone-d5	4.17	46	132281	86.42	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	86.42%
24) Chloroform-d	4.64	84	164422	47.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.72%
26) 1,2-Dichloroethane-d4	5.31	65	98350	46.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.88%
32) Benzene-d6	5.34	84	349360	48.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.68%
36) 1,2-Dichloropropane-d6	6.33	67	114794	46.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.52%
41) Toluene-d8	7.56	98	333697	50.95	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.90%
43) trans-1,3-Dichloropropene-	7.85	79	54784	49.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.60%
47) 2-Hexanone-d5	8.31	63	113296	97.16	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.16%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	162828	47.81	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.62%
64) 1,2-Dichlorobenzene-d4	11.86	152	130653	50.76	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.52%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	102637	46.188	ug/L	99
3) Chloromethane	1.33	50	112817	37.336	ug/L	97
5) Vinyl chloride	1.40	62	116612	43.685	ug/L	99
6) Bromomethane	1.61	94	54455	47.891	ug/L	100
8) Chloroethane	1.69	64	69434	45.570	ug/L	96
9) Trichlorofluoromethane	1.88	101	142264	52.116	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	92889	52.594	ug/L	97
12) 1,1-Dichloroethene	2.28	96	87494	50.073	ug/L	87
13) Acetone	2.32	43	145432	93.230	ug/L	98
14) Carbon disulfide	2.48	76	264672	43.376	ug/L	100
15) Methyl Acetate	2.61	43	96819	39.811	ug/L	94
16) Methylene chloride	2.70	84	99977	46.397	ug/L	91
17) trans-1,2-Dichloroethene	2.98	96	90434	47.771	ug/L	96
18) Methyl tert-butyl Ether	3.00	73	281419	48.344	ug/L	96
19) 1,1-Dichloroethane	3.44	63	164414	44.678	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	104603	48.779	ug/L	89
22) 2-Butanone	4.26	43	167719	88.293	ug/L	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	50107	49.015	ug/L	86
25) Chloroform	4.67	83	163439	46.663	ug/L	99
27) 1,2-Dichloroethane	5.40	62	119388	45.865	ug/L	98
29) Cyclohexane	4.99	56	155566	45.691	ug/L	94
30) 1,1,1-Trichloroethane	4.91	97	134045	49.508	ug/L	97
31) Carbon tetrachloride	5.13	117	110408	50.567	ug/L	99
33) Benzene	5.39	78	384996	47.273	ug/L	100
34) Trichloroethene	6.18	95	95439	48.540	ug/L	95
35) Methylcyclohexane	6.41	83	162427	49.600	ug/L	94
37) 1,2-Dichloropropane	6.43	63	103364	45.404	ug/L	99
38) Bromodichloromethane	6.75	83	122351	48.532	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	160433	49.431	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	256847	83.939	ug/L	95
42) Toluene	7.64	91	410742	49.753	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	143030	49.438	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	95755	49.194	ug/L	97
46) Tetrachloroethene	8.22	164	79131	52.256	ug/L	99
48) 2-Hexanone	8.36	43	225026	89.599	ug/L	95
49) Dibromochloromethane	8.48	129	99092	51.109	ug/L	99
50) 1,2-Dibromoethane	8.58	107	102394	50.560	ug/L	97
51) Chlorobenzene	9.12	112	262778	50.505	ug/L	99
52) Ethylbenzene	9.25	91	445031	50.169	ug/L	97
53) m,p-Xylene	9.37	106	172743	52.661	ug/L	96
54) o-xylene	9.78	106	168817	51.348	ug/L	99
55) Styrene	9.79	104	288518	51.816	ug/L	99
56) Isopropylbenzene	10.16	105	432800	51.894	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	165953	46.931	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	126577	46.591	ug/L	100
61) Bromoform	9.96	173	77483	49.119	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	204637	50.623	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	207309	49.777	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	208128	49.357	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	32883	45.208	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	152859	51.287	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	134849	54.030	ug/L	98
69) Naphthalene	13.74	128	441968	51.005	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	137068	50.931	ug/L	100

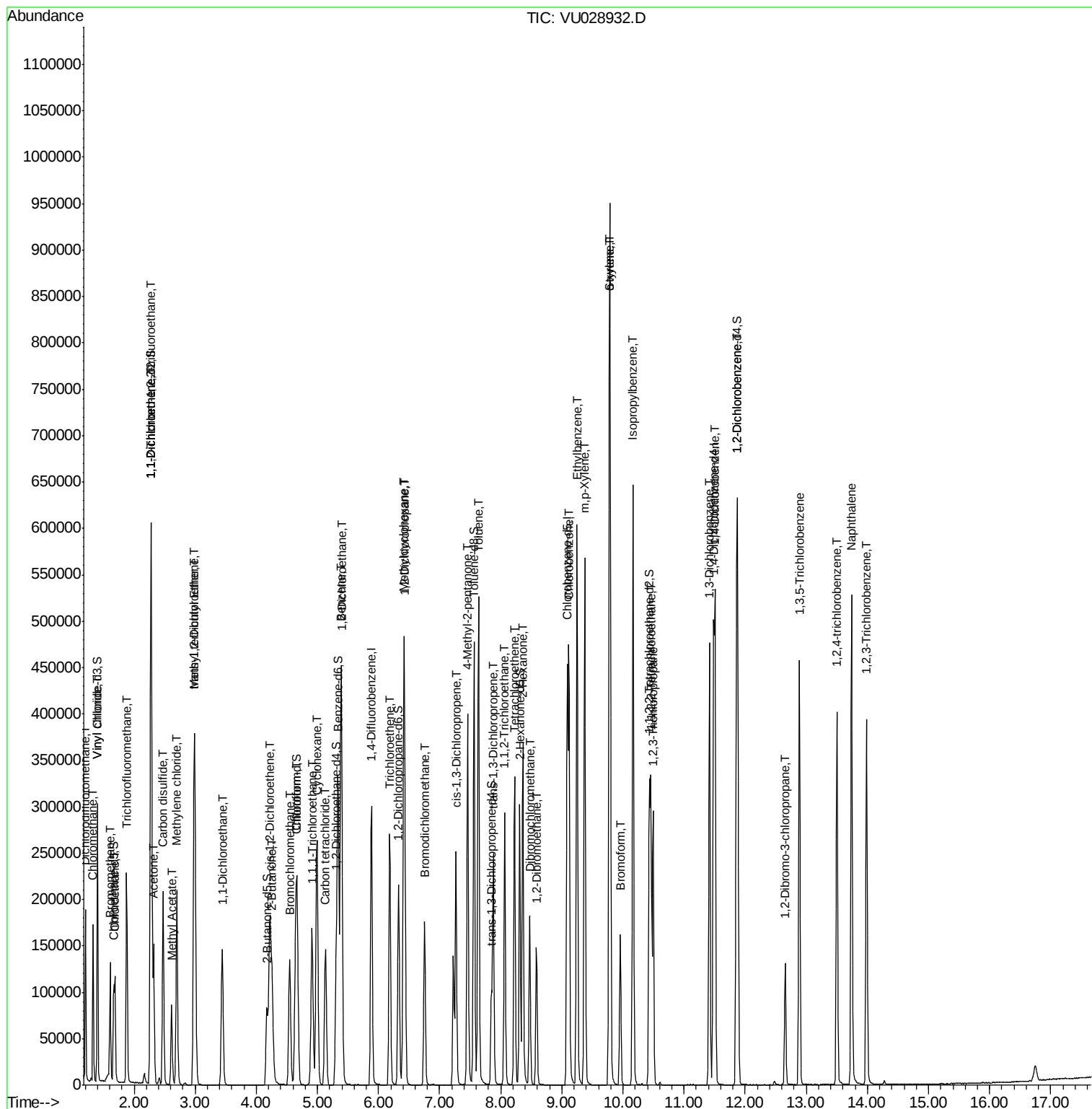
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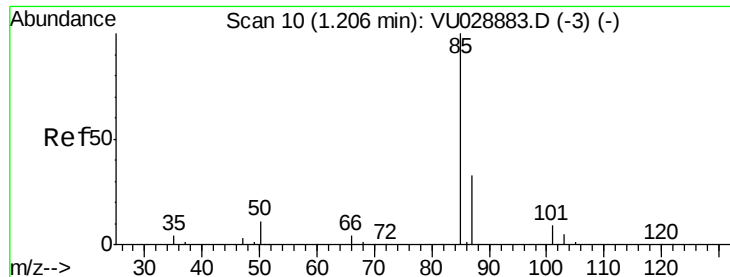
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#2

Dichlorodifluoromethane

Concen: 46.188 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

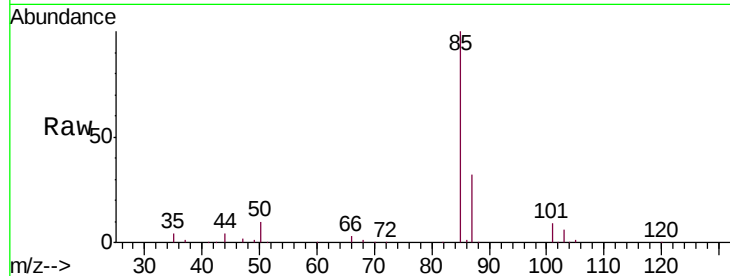
VSTD05046

Tgt Ion: 85 Resp: 102637

Ion Ratio Lower Upper

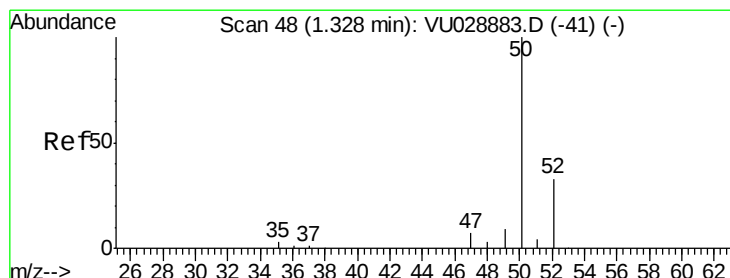
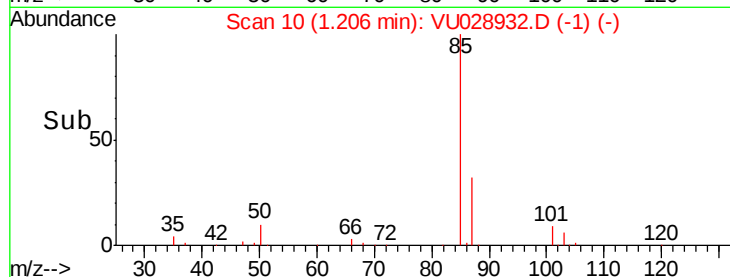
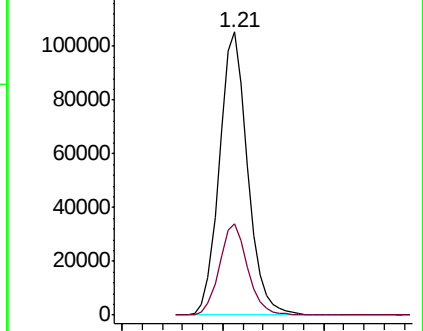
85 100

87 32.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 37.336 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU028932.D

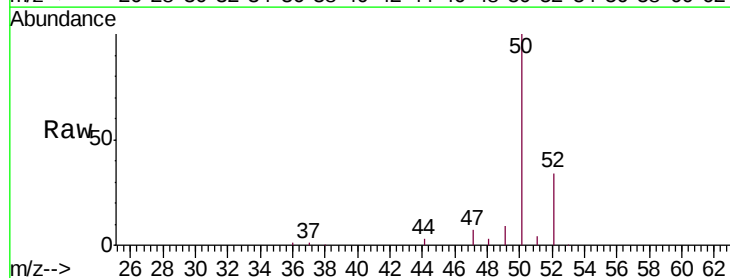
Acq: 24 Dec 2018 08:59

Tgt Ion: 50 Resp: 112817

Ion Ratio Lower Upper

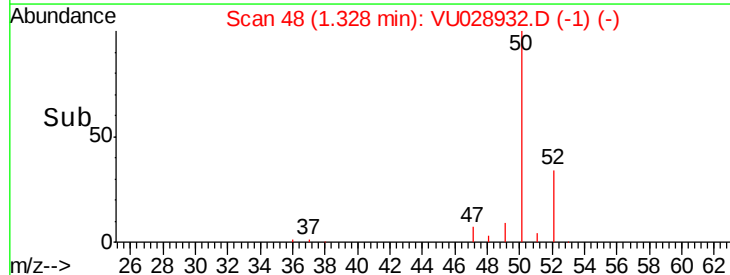
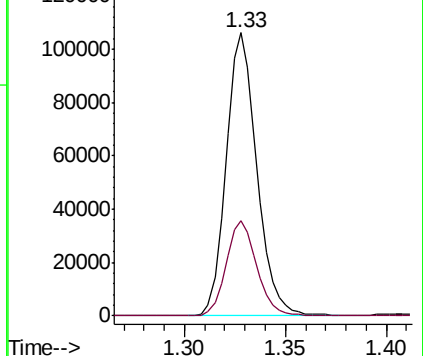
50 100

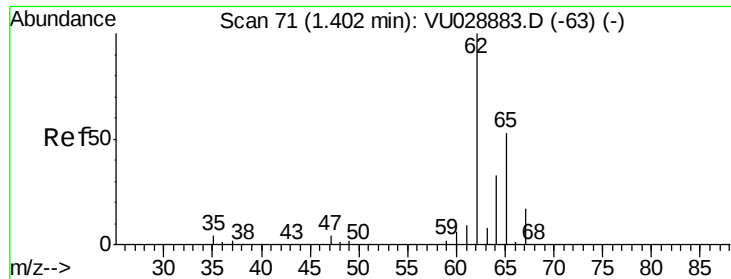
52 33.6 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 43.685 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

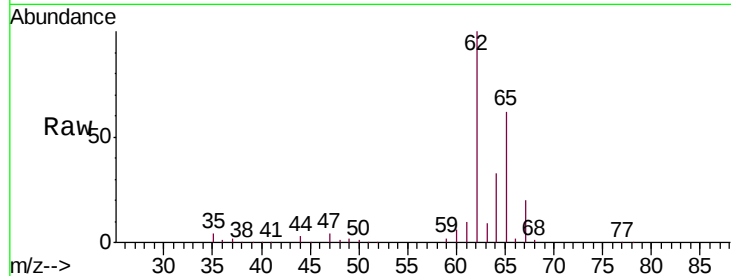
VSTD05046

Tgt Ion: 62 Resp: 116612

Ion Ratio Lower Upper

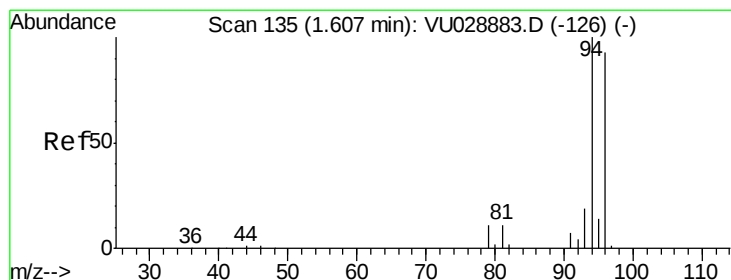
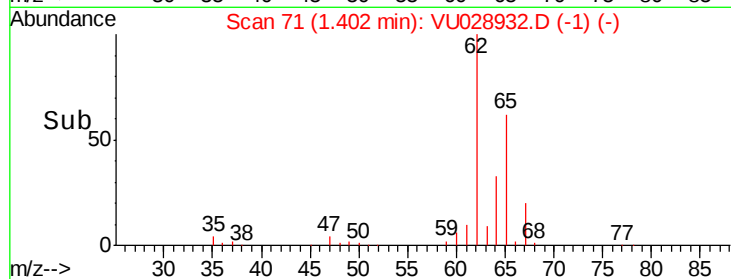
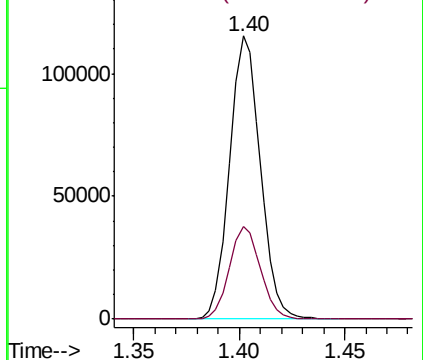
62 100

64 32.6 22.3 41.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 47.891 ug/L

RT: 1.61 min Scan# 135

Delta R.T. 0.00 min

Lab File: VU028932.D

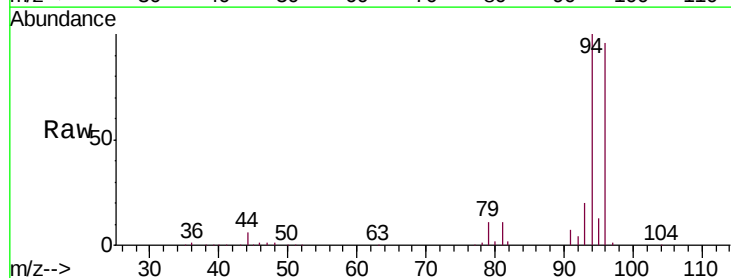
Acq: 24 Dec 2018 08:59

Tgt Ion: 94 Resp: 54455

Ion Ratio Lower Upper

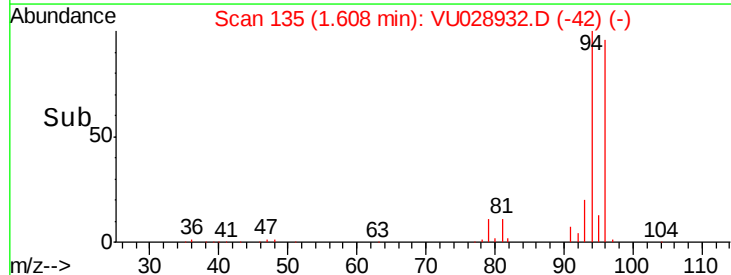
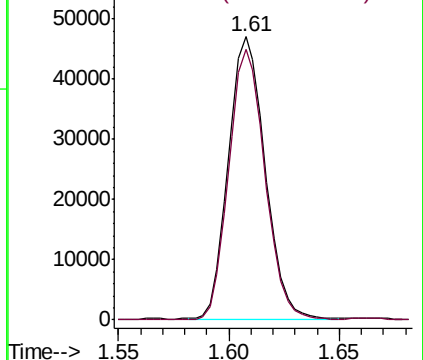
94 100

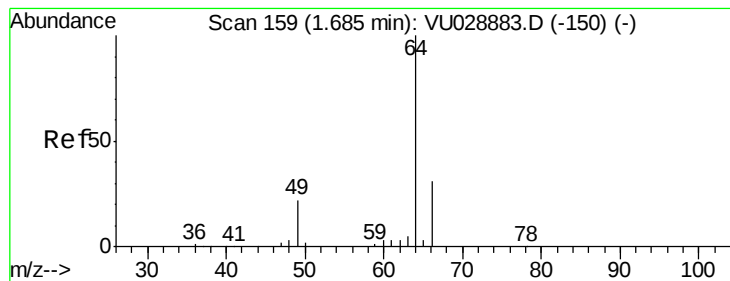
96 95.7 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 45.570 ug/L

RT: 1.69 min Scan# 160

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

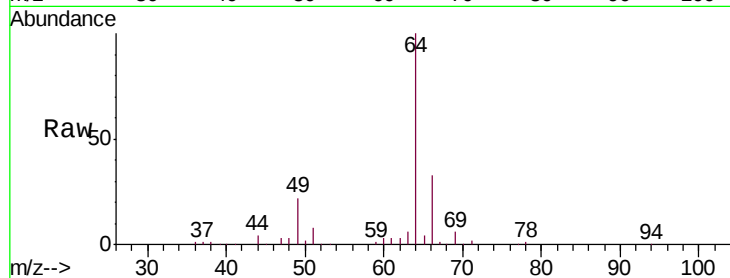
VSTD05046

Tgt Ion: 64 Resp: 69434

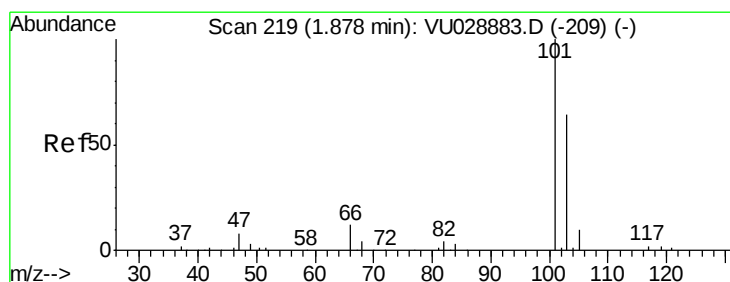
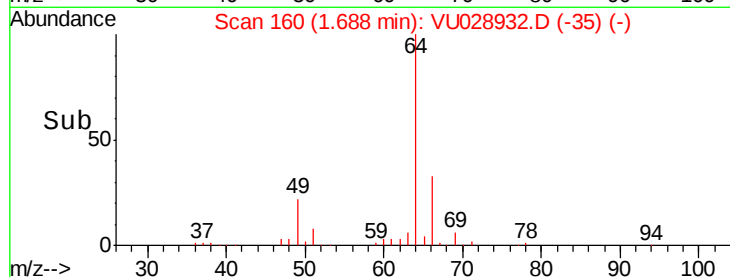
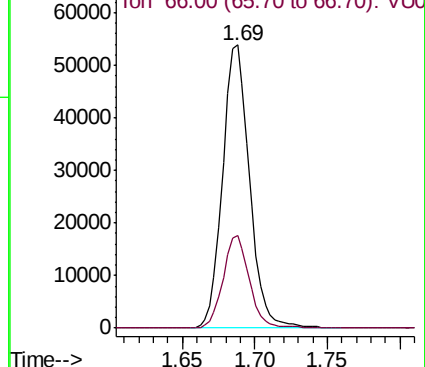
Ion Ratio Lower Upper

64 100

66 32.7 21.5 39.9



Abundance Ion 64.00 (63.70 to 64.70): VU028883.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 52.116 ug/L

RT: 1.88 min Scan# 220

Delta R.T. 0.00 min

Lab File: VU028932.D

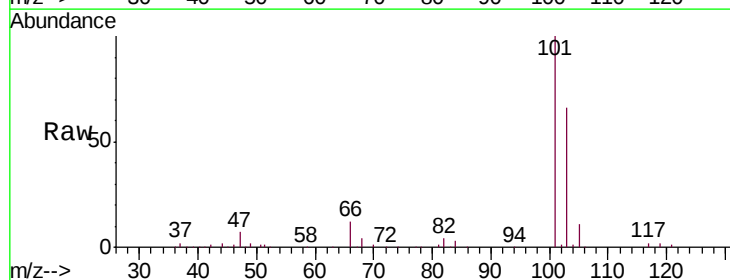
Acq: 24 Dec 2018 08:59

Tgt Ion: 101 Resp: 142264

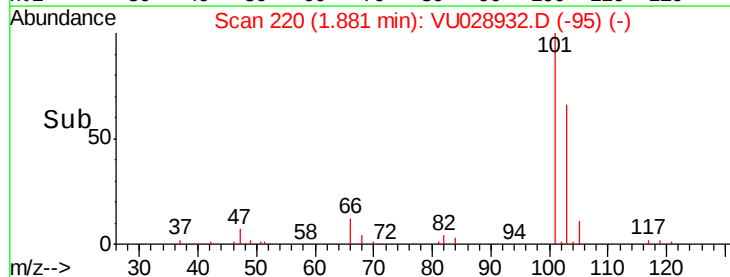
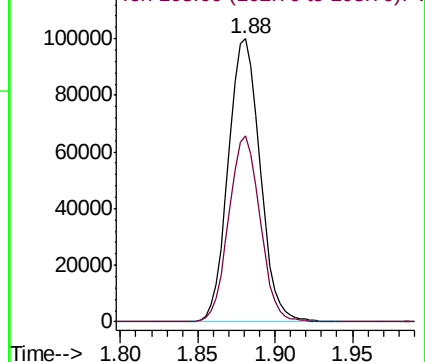
Ion Ratio Lower Upper

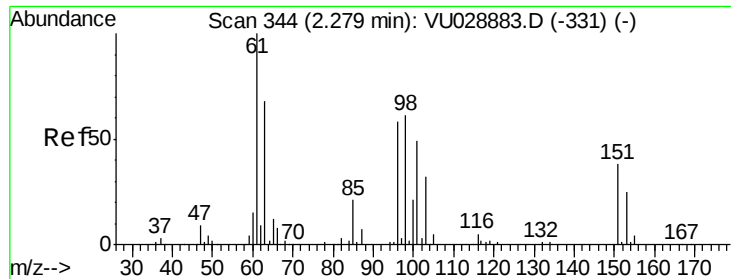
101 100

103 64.8 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU028883.D (-209) (-)





#10

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

Concen: 52.594 ug/L

RT: 2.28 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

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ClientSampleId :

VSTD05046

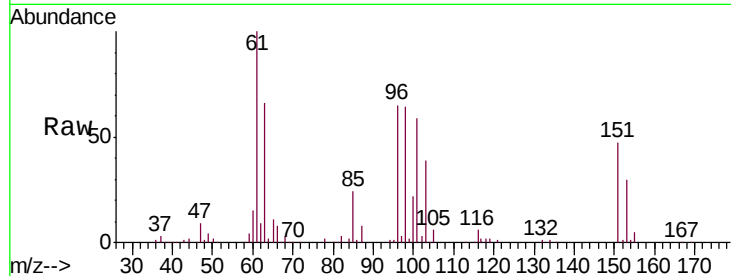
Tgt Ion:101 Resp: 92889

Ion Ratio Lower Upper

101 100

85 40.3 33.8 50.6

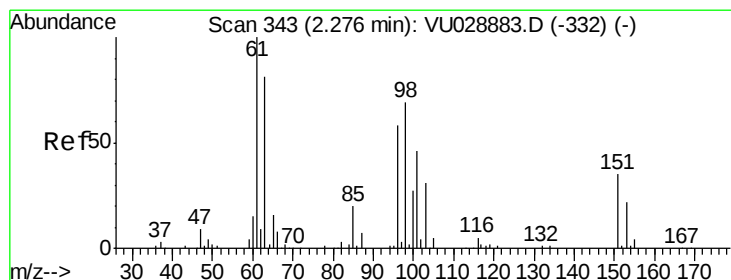
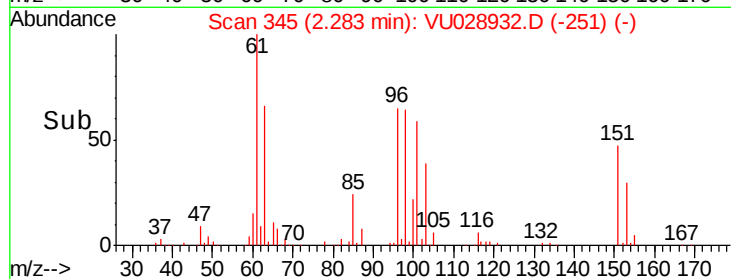
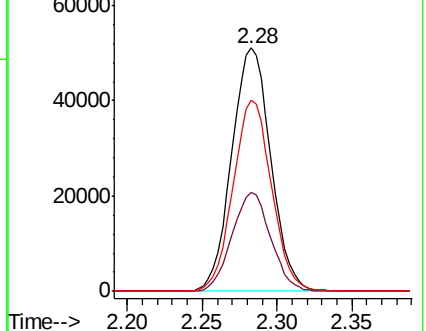
151 77.3 59.4 89.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 50.073 ug/L

RT: 2.28 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

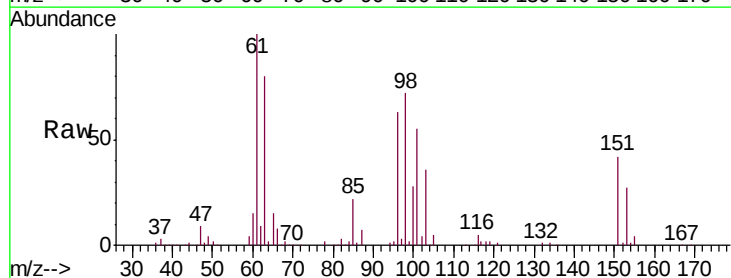
Tgt Ion: 96 Resp: 87494

Ion Ratio Lower Upper

96 100

61 159.8 119.3 221.5

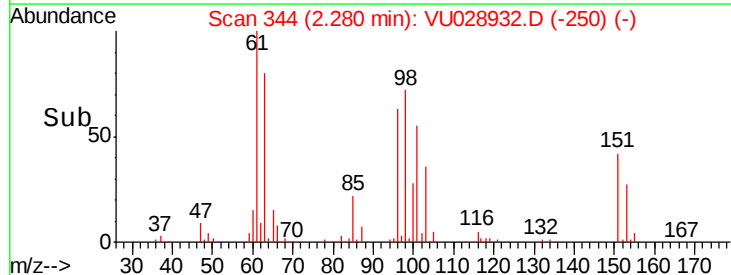
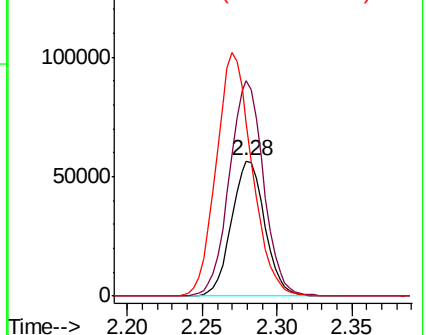
63 128.4 107.4 199.6

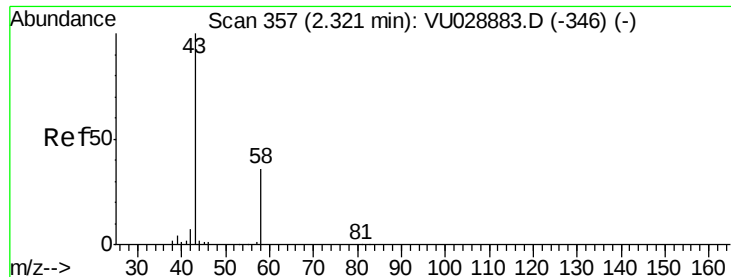


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 93.230 ug/L

RT: 2.32 min Scan# 356

Delta R.T. -0.00 min

Lab File: VU028932.D

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ClientSampleId :

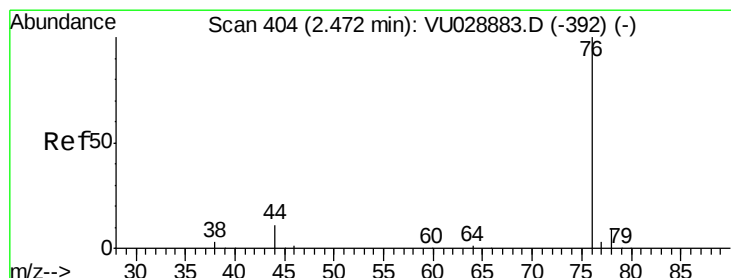
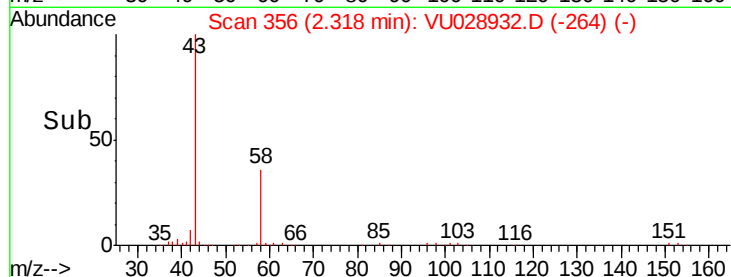
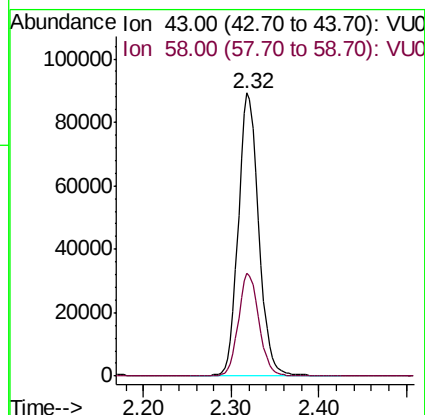
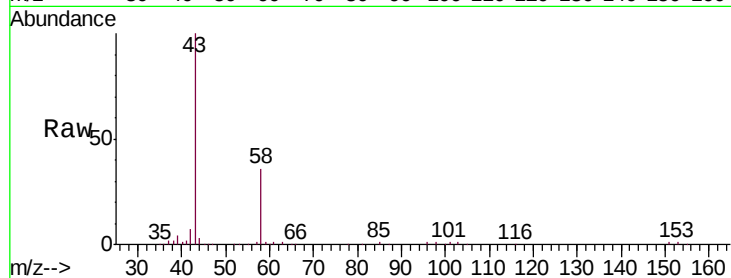
VSTD05046

Tgt Ion: 43 Resp: 145432

Ion Ratio Lower Upper

43 100

58 36.4 0.0 70.2



#14

Carbon disulfide

Concen: 43.376 ug/L

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU028932.D

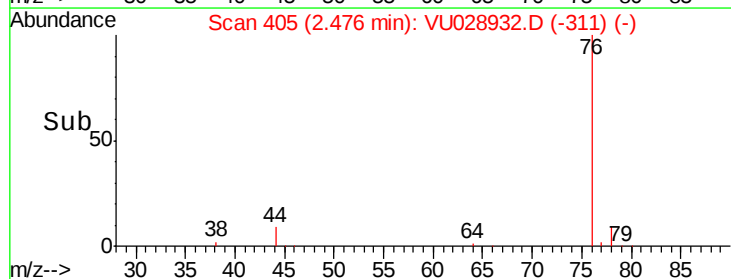
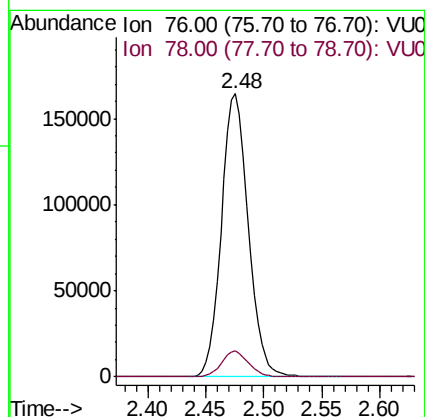
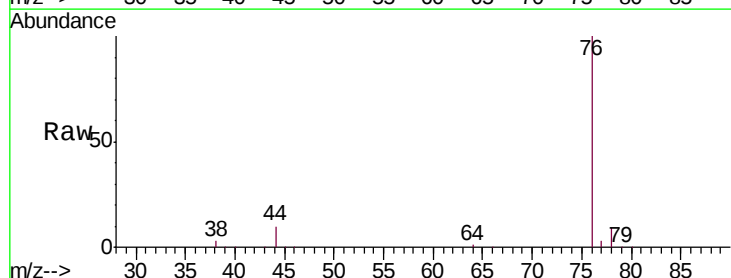
Acq: 24 Dec 2018 08:59

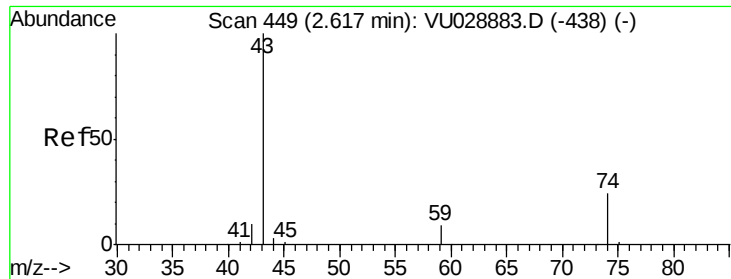
Tgt Ion: 76 Resp: 264672

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0

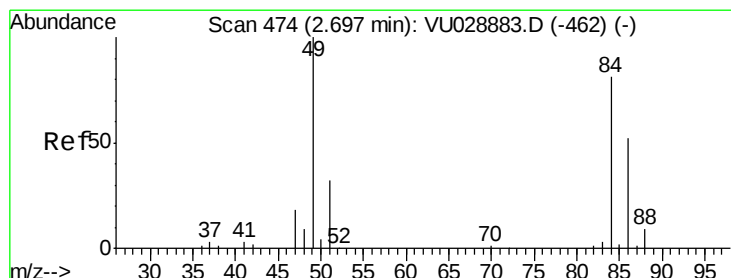
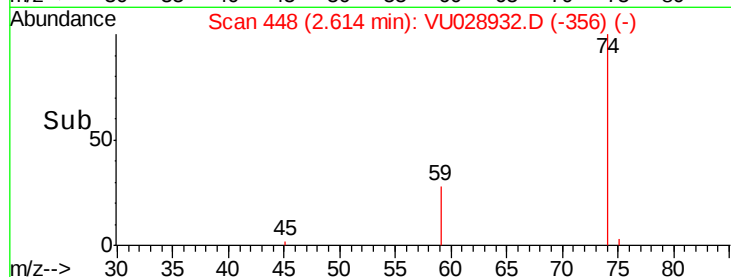
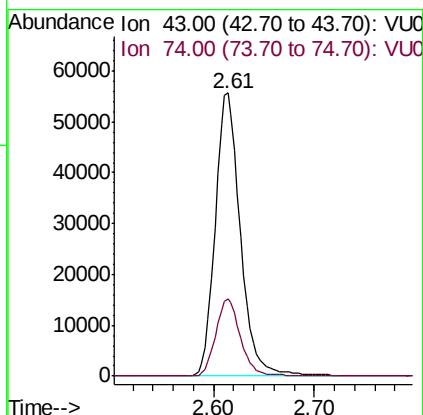
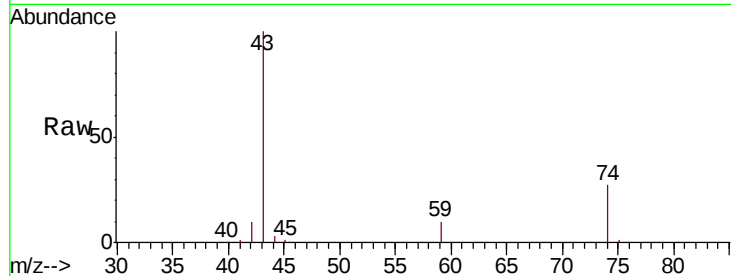




#15
Methyl Acetate
Concen: 39.811 ug/L
RT: 2.61 min Scan# 448
Delta R.T. -0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

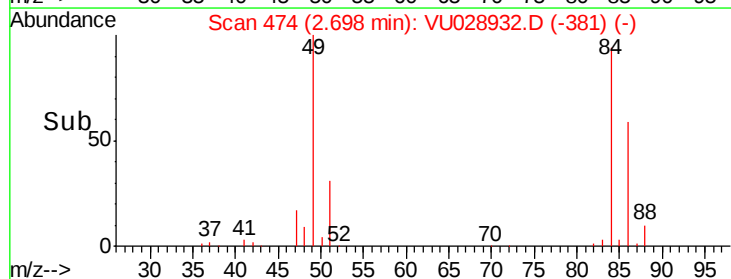
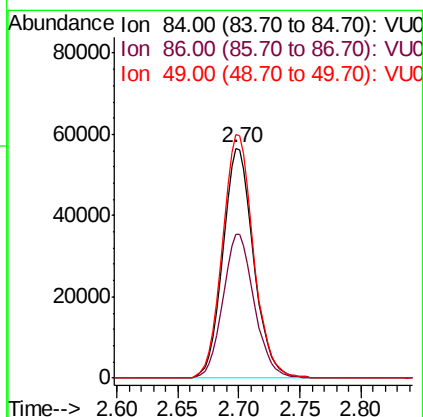
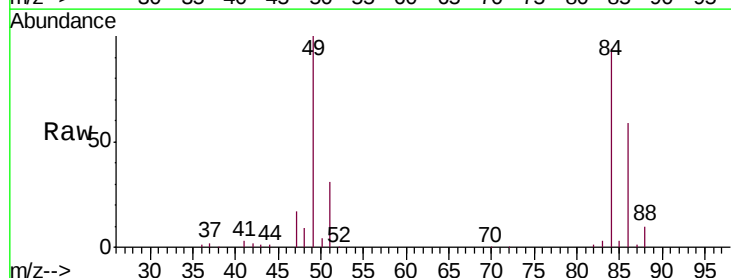
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

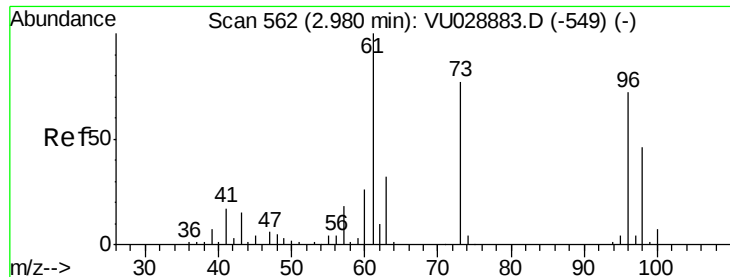
Tgt Ion: 43 Resp: 96819
Ion Ratio Lower Upper
43 100
74 26.8 19.0 28.4



#16
Methylene chloride
Concen: 46.397 ug/L
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

Tgt Ion: 84 Resp: 99977
Ion Ratio Lower Upper
84 100
86 62.8 44.9 83.3
49 106.0 83.9 155.7

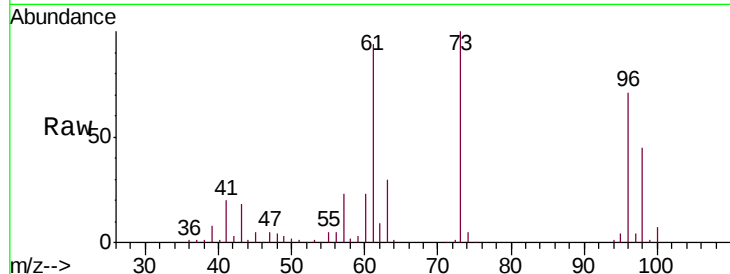




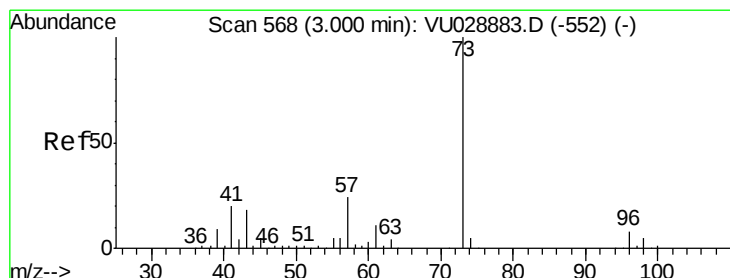
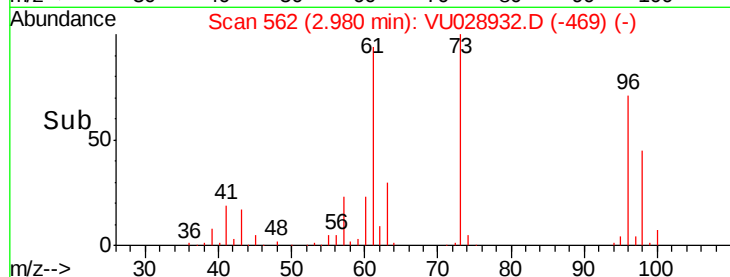
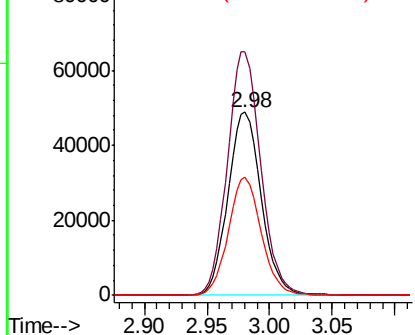
#17
trans-1,2-Dichloroethene
Concen: 47.771 ug/L
RT: 2.98 min Scan# 562
Delta R.T. 0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

Tgt Ion: 96 Resp: 90434
Ion Ratio Lower Upper
96 100
61 132.9 97.9 181.7
98 64.1 44.1 81.9

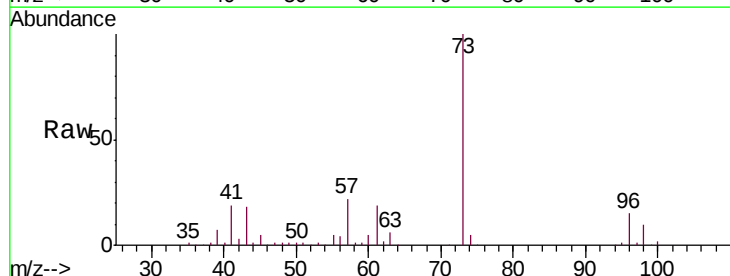


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

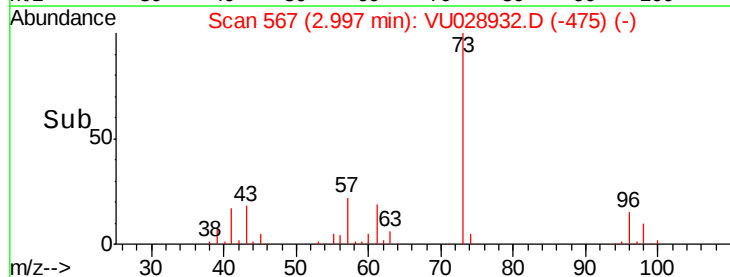
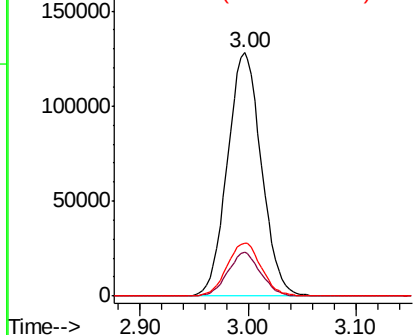


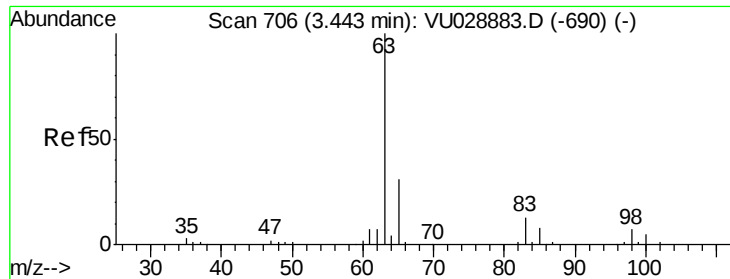
#18
Methyl tert-butyl Ether
Concen: 48.344 ug/L
RT: 3.00 min Scan# 567
Delta R.T. -0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

Tgt Ion: 73 Resp: 281419
Ion Ratio Lower Upper
73 100
43 17.4 15.3 22.9
57 21.9 19.0 28.4



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

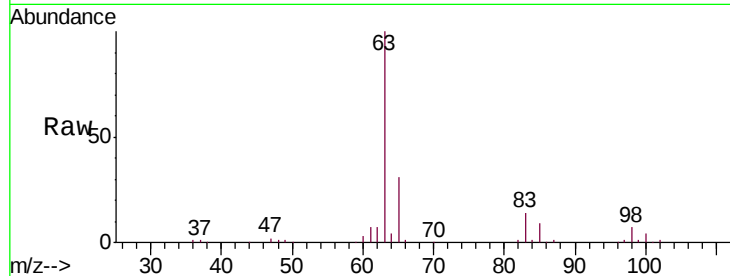




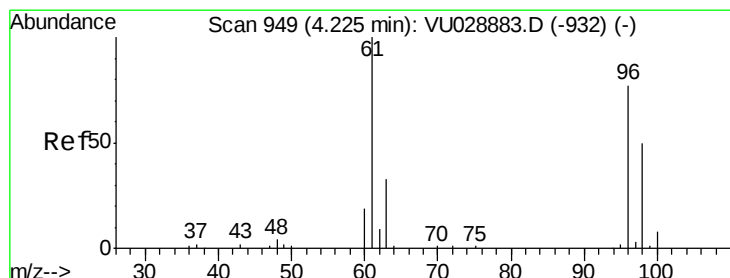
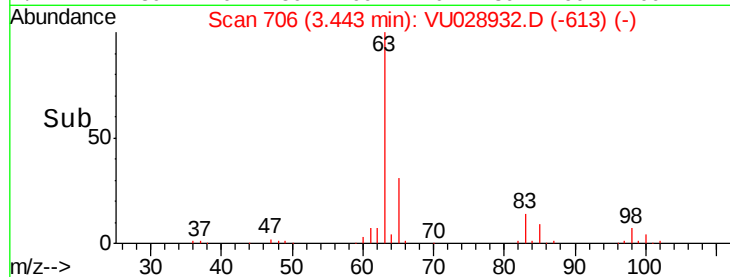
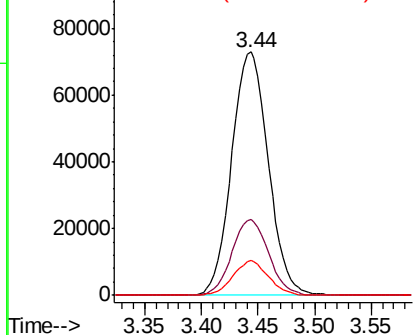
#19
 1,1-Dichloroethane
 Concen: 44.678 ug/L
 RT: 3.44 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion: 63 Resp: 164414
 Ion Ratio Lower Upper
 63 100
 65 31.3 22.7 42.1
 83 14.3 9.0 16.8

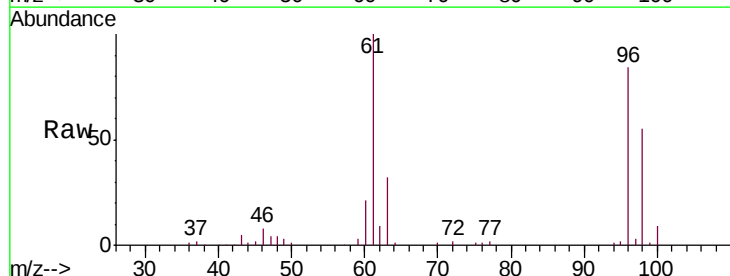


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

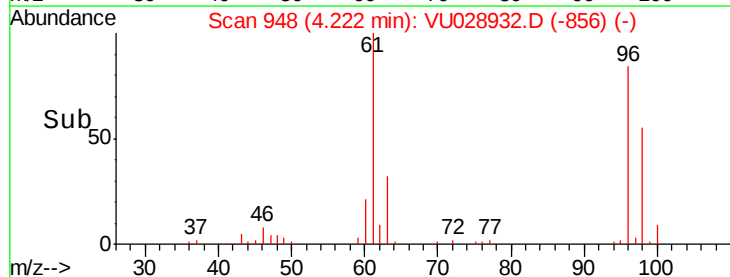
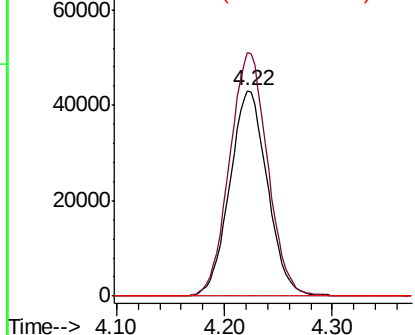


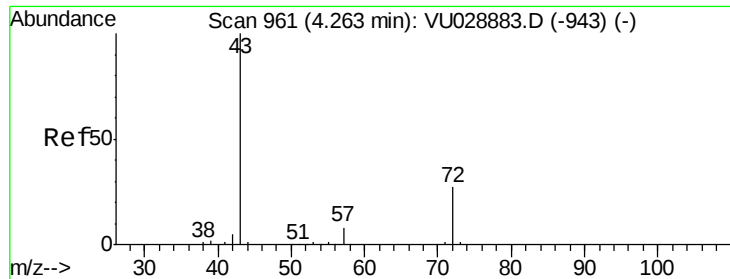
#20
 cis-1,2-Dichloroethene
 Concen: 48.779 ug/L
 RT: 4.22 min Scan# 948
 Delta R.T. -0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Tgt Ion: 96 Resp: 104603
 Ion Ratio Lower Upper
 96 100
 61 118.5 92.1 171.1
 68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 88.293 ug/L

RT: 4.26 min Scan# 959

Delta R.T. -0.01 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

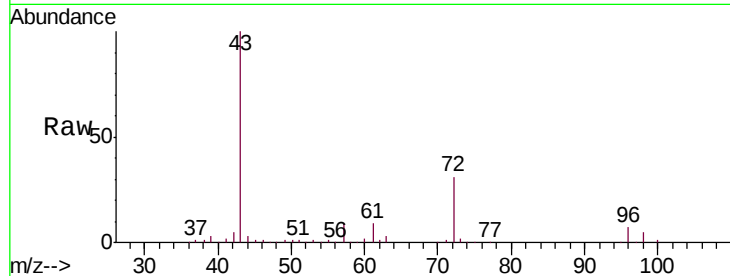
VSTD05046

Tgt Ion: 43 Resp: 167719

Ion Ratio Lower Upper

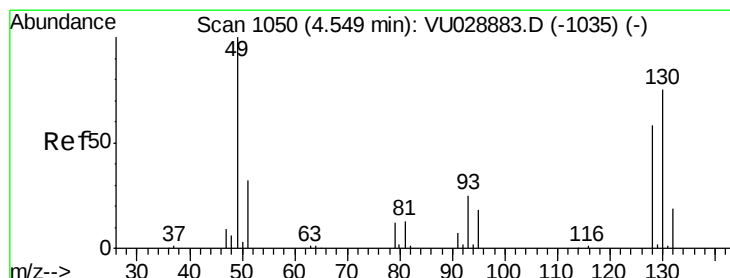
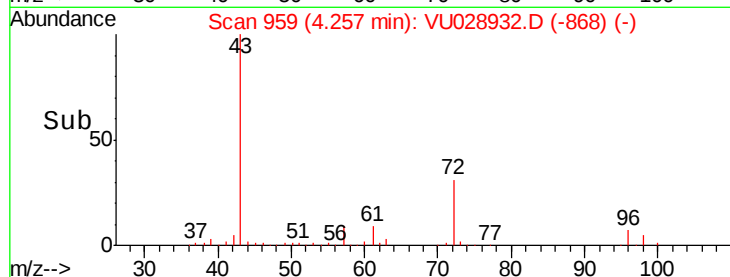
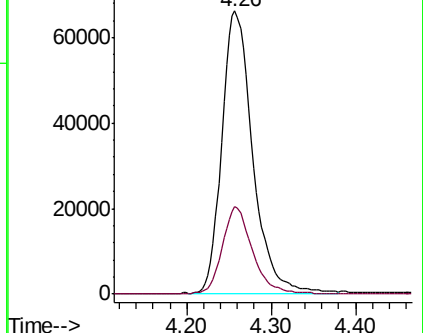
43 100

72 30.5 13.7 41.1



Abundance Ion 43.00 (42.70 to 43.70): VU028883.D (-943) (-)

Ion 72.00 (71.70 to 72.70): VU028883.D (-943) (-)



#23

Bromochloromethane

Concen: 49.015 ug/L

RT: 4.55 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Tgt Ion: 128 Resp: 50107

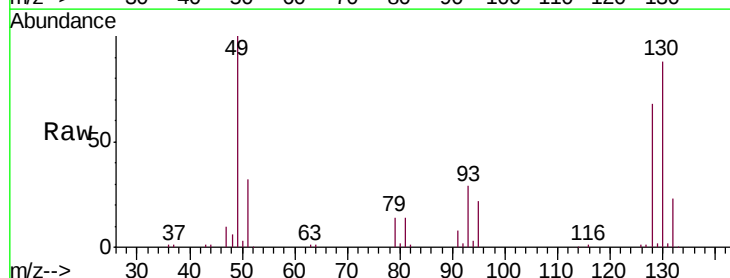
Ion Ratio Lower Upper

128 100

49 146.2 123.0 228.4

130 128.3 86.5 160.7

51 47.4 44.1 66.1

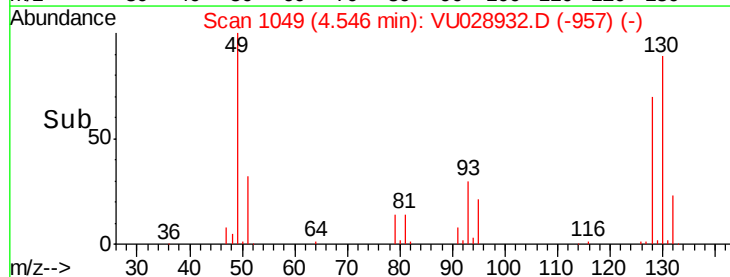
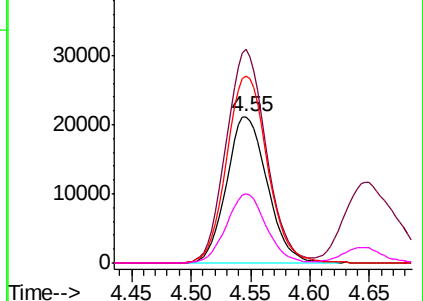


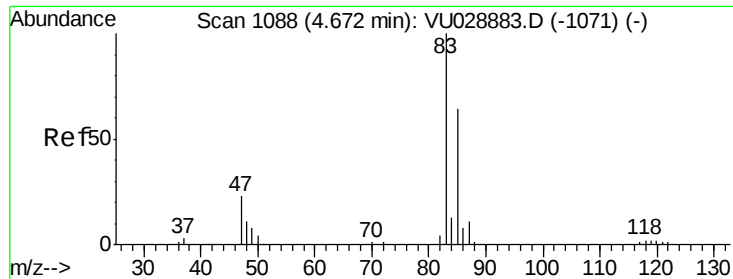
Abundance Ion 128.00 (127.70 to 128.70): VU028883.D (-1035) (-)

Ion 49.00 (48.70 to 49.70): VU028883.D (-1035) (-)

Ion 130.00 (129.70 to 130.70): VU028883.D (-1035) (-)

Ion 51.00 (50.70 to 51.70): VU028883.D (-1035) (-)

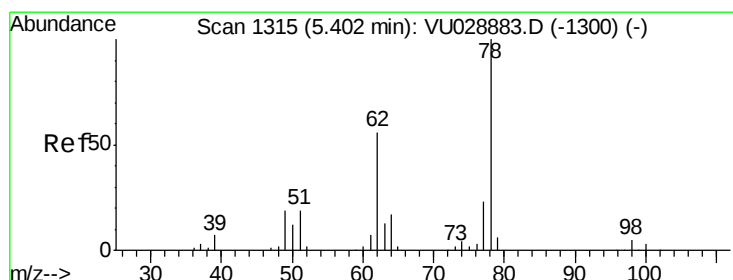
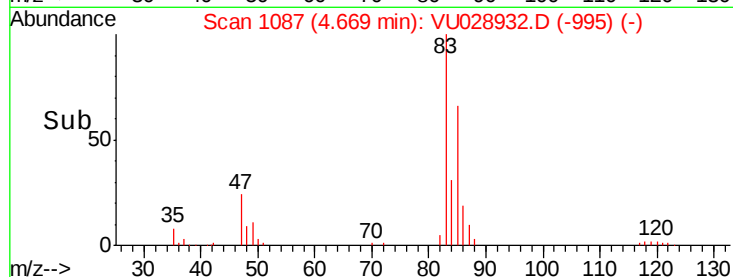
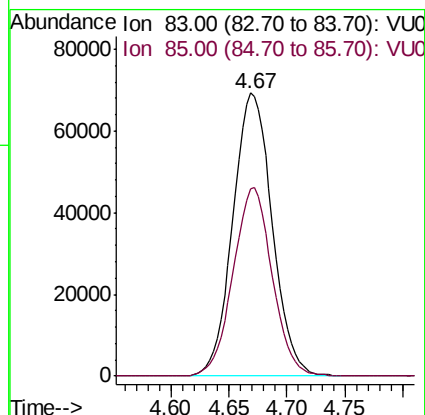
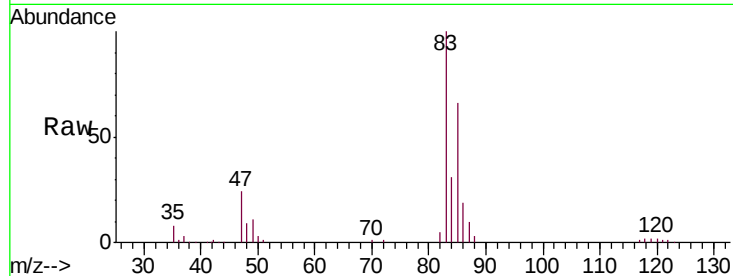




#25
Chloroform
Concen: 46.663 ug/L
RT: 4.67 min Scan# 1087
Delta R.T. -0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

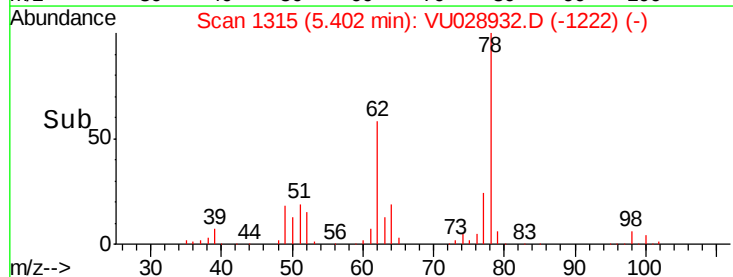
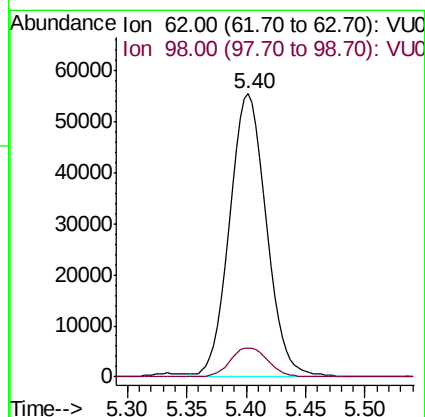
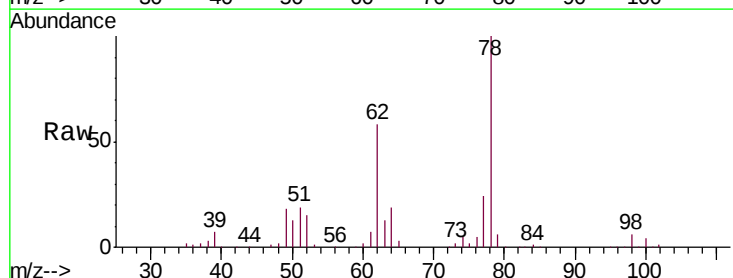
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

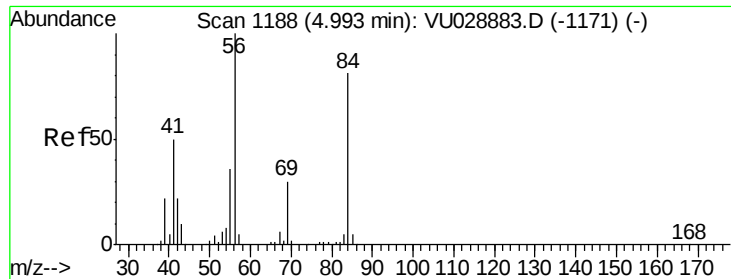
Tgt Ion: 83 Resp: 163439
Ion Ratio Lower Upper
83 100
85 66.1 45.6 84.6



#27
1,2-Dichloroethane
Concen: 45.865 ug/L
RT: 5.40 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

Tgt Ion: 62 Resp: 119388
Ion Ratio Lower Upper
62 100
98 10.2 7.5 11.3

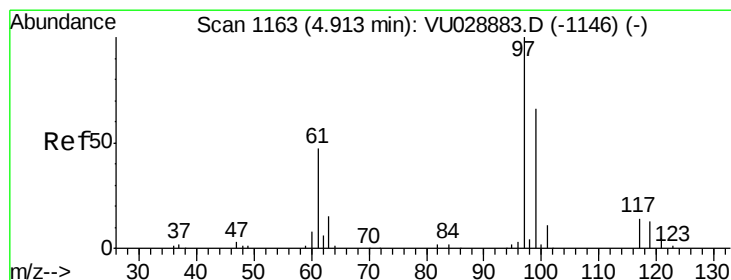
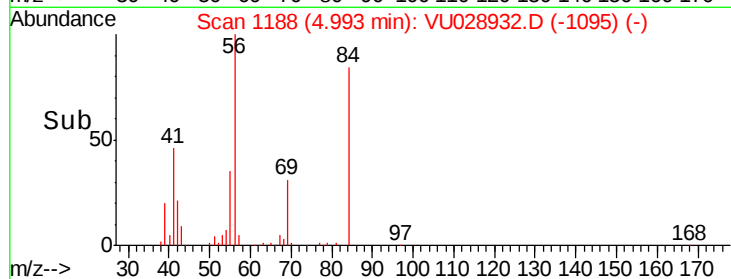
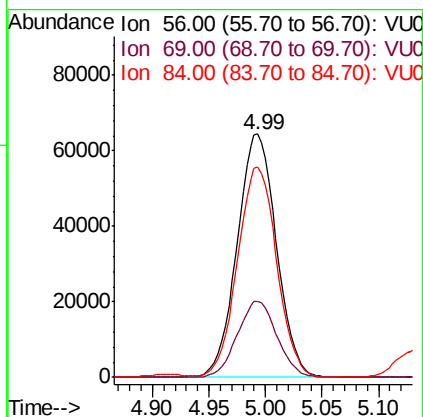
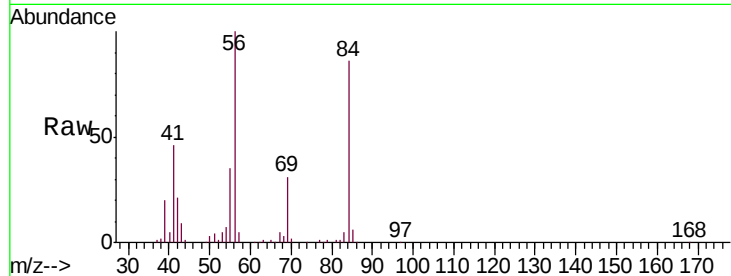




#29
Cyclohexane
Concen: 45.691 ug/L
RT: 4.99 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

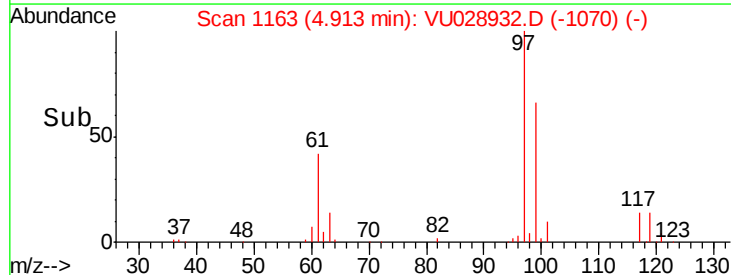
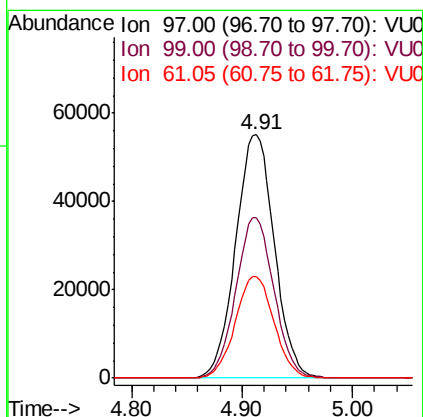
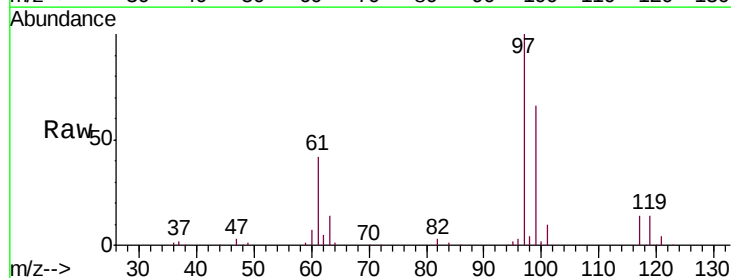
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

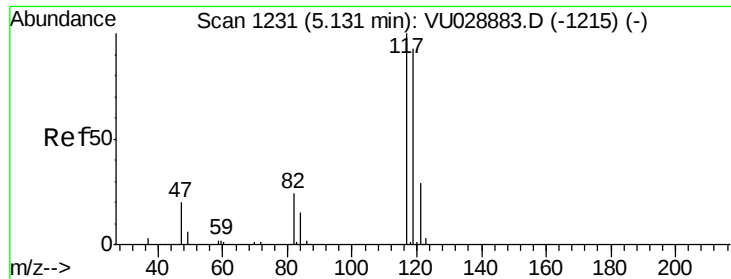
Tgt Ion: 56 Resp: 155566
Ion Ratio Lower Upper
56 100
69 31.4 23.8 35.8
84 86.5 63.8 95.8



#30
1,1,1-Trichloroethane
Concen: 49.508 ug/L
RT: 4.91 min Scan# 1163
Delta R.T. 0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

Tgt Ion: 97 Resp: 134045
Ion Ratio Lower Upper
97 100
99 64.9 51.2 76.8
61 41.8 36.1 54.1

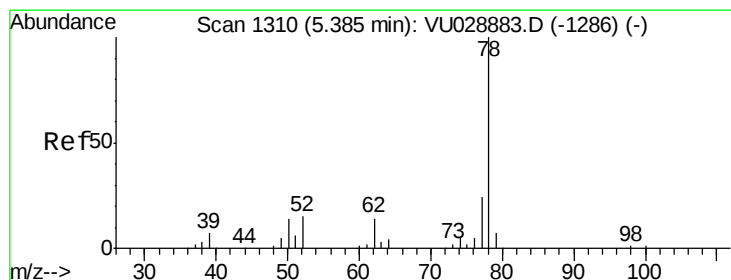
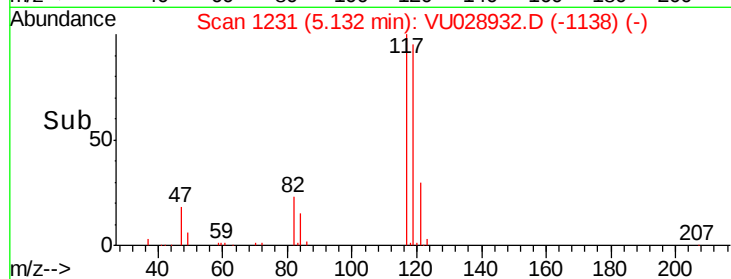
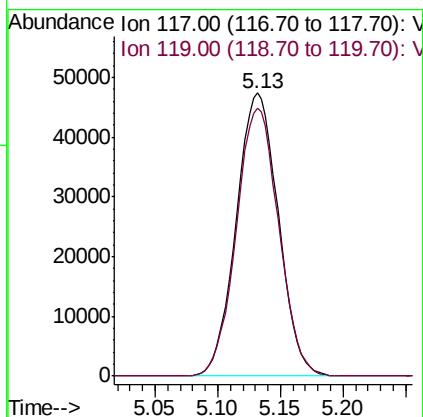
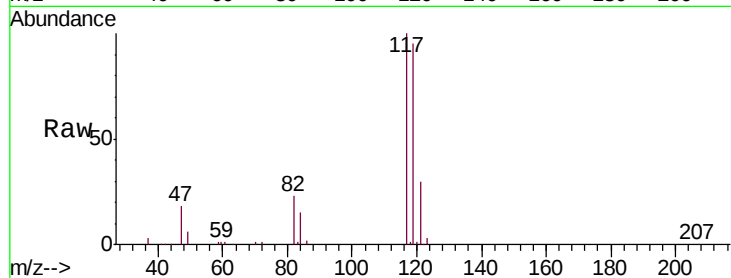




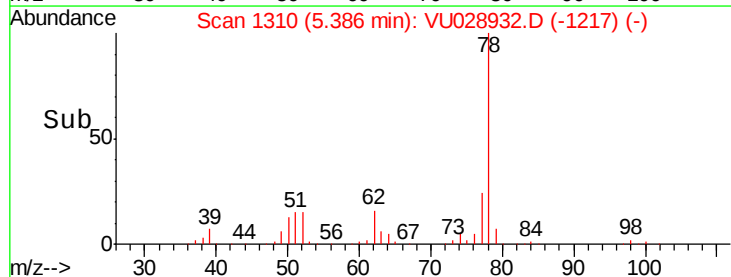
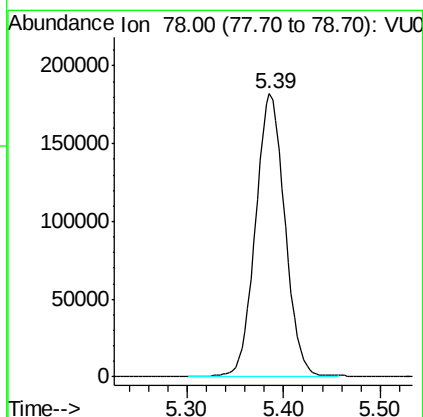
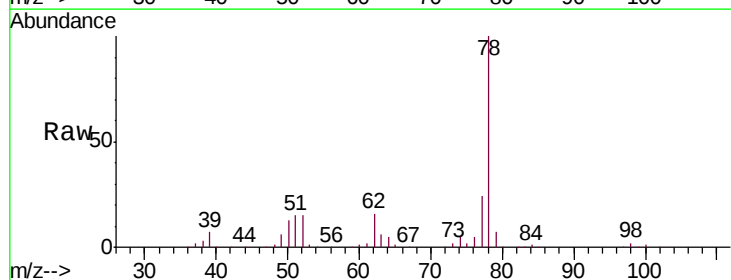
#31
Carbon tetrachloride
Concen: 50.567 ug/L
RT: 5.13 min Scan# 1231
Delta R.T. 0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

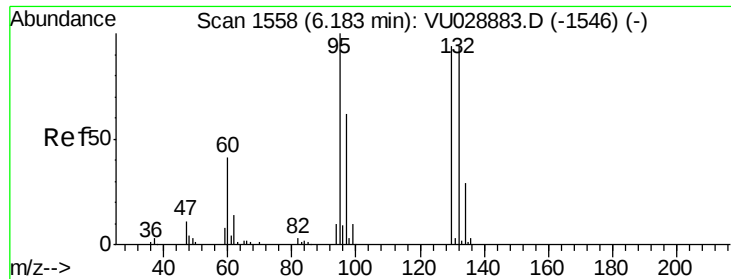
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

Tgt Ion:117 Resp: 110408
Ion Ratio Lower Upper
117 100
119 95.6 77.0 115.6



#33
Benzene
Concen: 47.273 ug/L
RT: 5.39 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59
Tgt Ion: 78 Resp: 384996

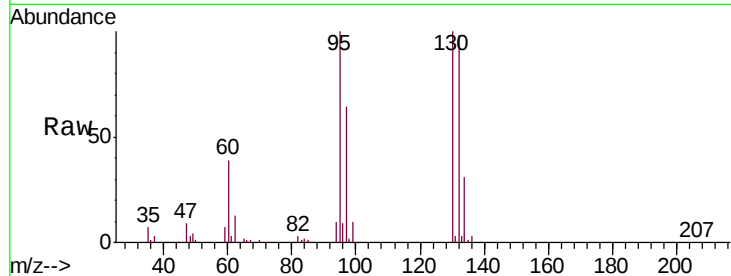




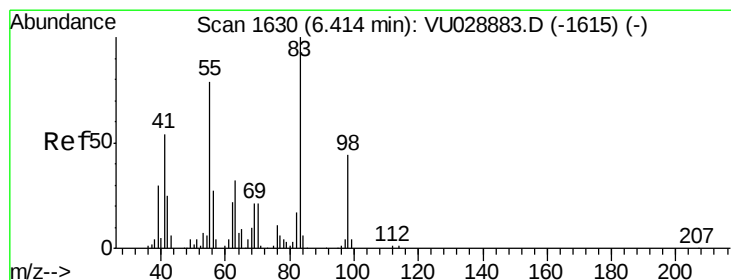
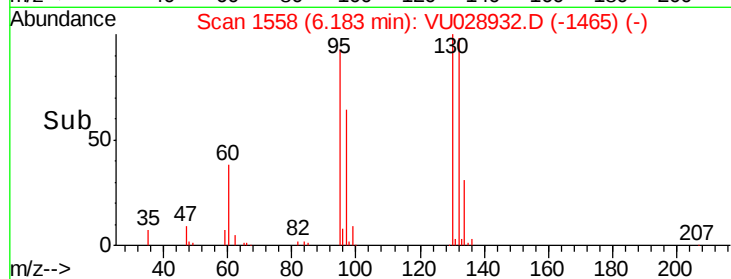
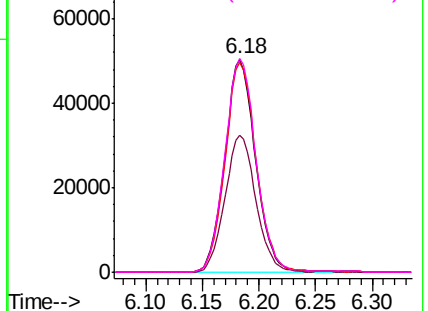
#34
 Trichloroethene
 Concen: 48.540 ug/L
 RT: 6.18 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:	95	Resp:	95439
Ion	Ratio	Lower	Upper
95	100		
97	64.6	43.3	80.3
132	98.6	64.2	119.2
130	100.4	67.1	124.7

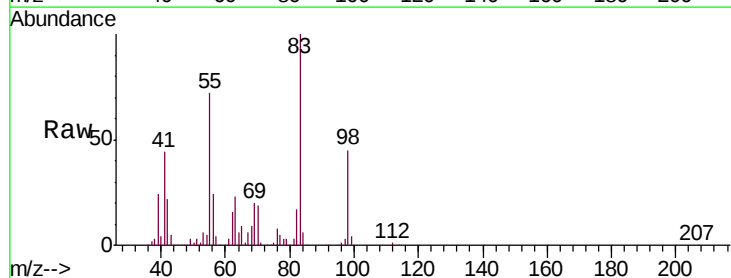


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

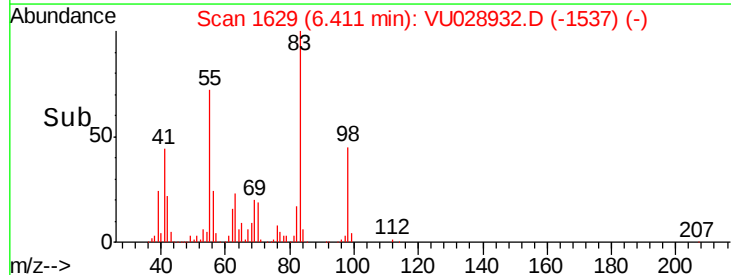
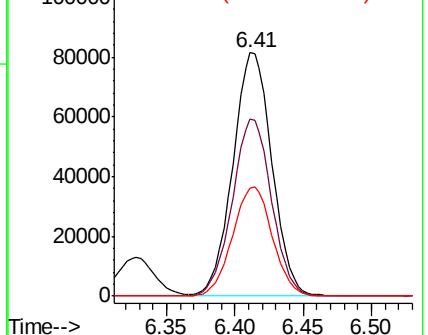


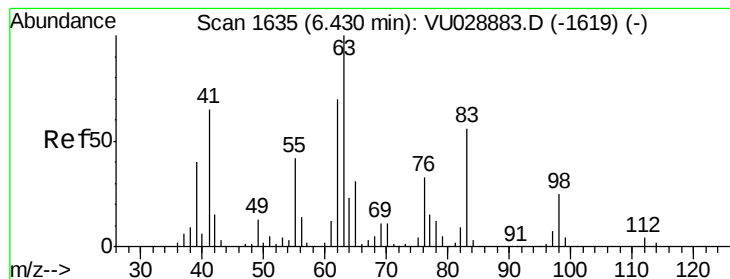
#35
 Methylcyclohexane
 Concen: 49.600 ug/L
 RT: 6.41 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Tgt Ion:	83	Resp:	162427
Ion	Ratio	Lower	Upper
83	100		
55	72.9	63.7	95.5
98	45.6	35.6	53.4



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: 45.404 ug/L

RT: 6.43 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

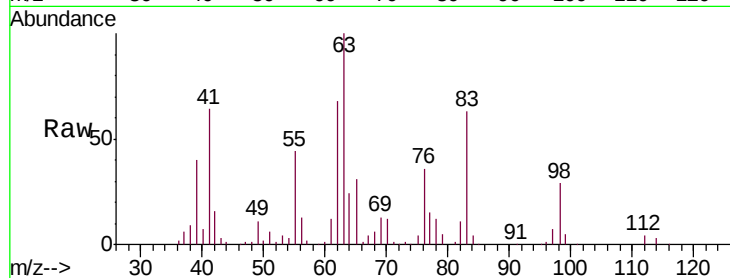
VSTD05046

Tgt Ion: 63 Resp: 103364

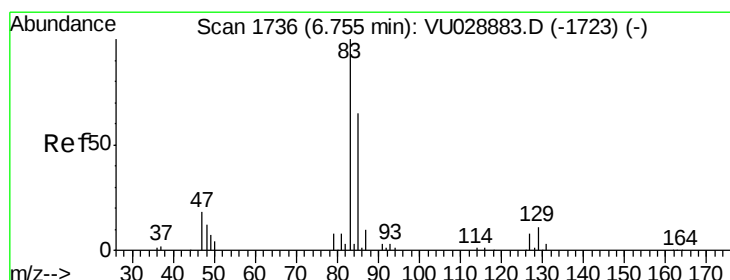
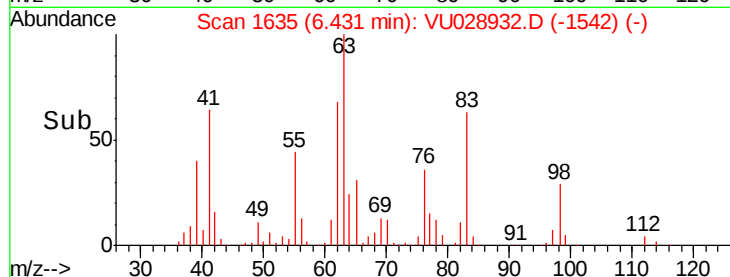
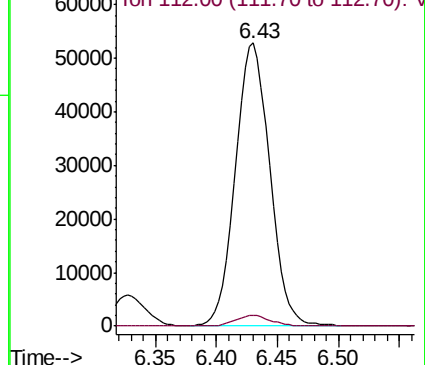
Ion Ratio Lower Upper

63 100

112 3.8 2.7 4.1



Abundance Ion 63.00 (62.70 to 63.70): VU028883.D (-1619) (-)



#38

Bromodichloromethane

Concen: 48.532 ug/L

RT: 6.75 min Scan# 1735

Delta R.T. -0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

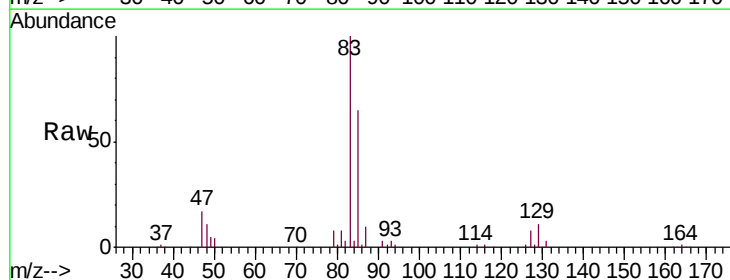
Tgt Ion: 83 Resp: 122351

Ion Ratio Lower Upper

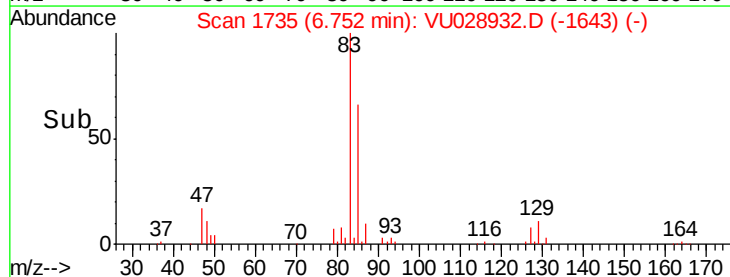
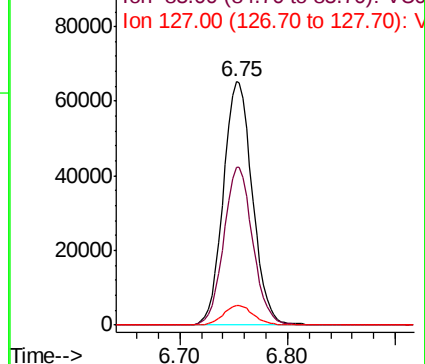
83 100

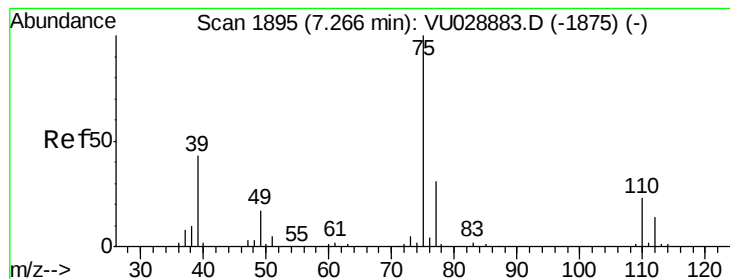
85 65.0 45.4 84.2

127 7.9 6.2 9.2



Abundance Ion 83.00 (82.70 to 83.70): VU028883.D (-1723) (-)



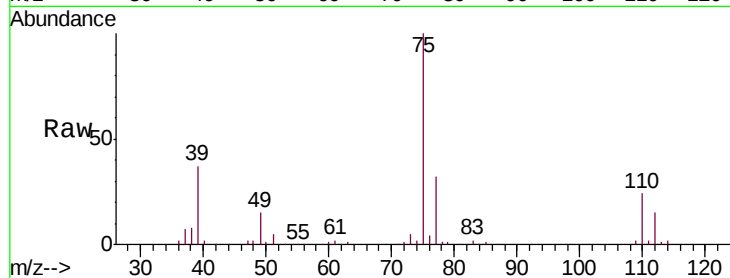


#39

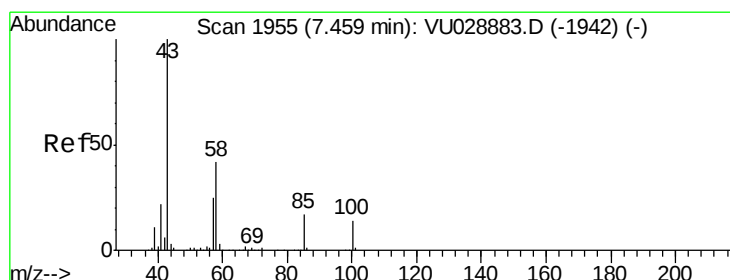
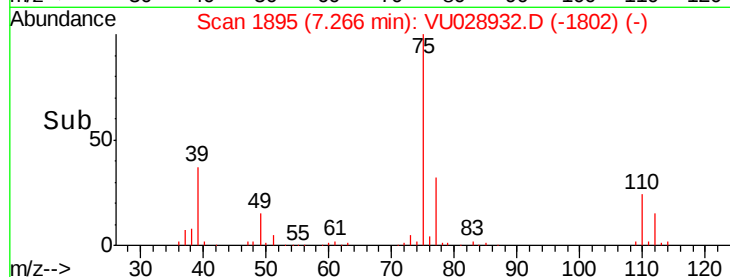
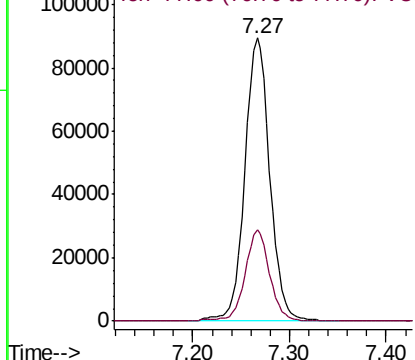
cis-1,3-Dichloropropene
 Concen: 49.431 ug/L
 RT: 7.27 min Scan# 1895
 Delta R.T. 0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion: 75 Resp: 160433
 Ion Ratio Lower Upper
 75 100
 77 32.1 21.8 40.6



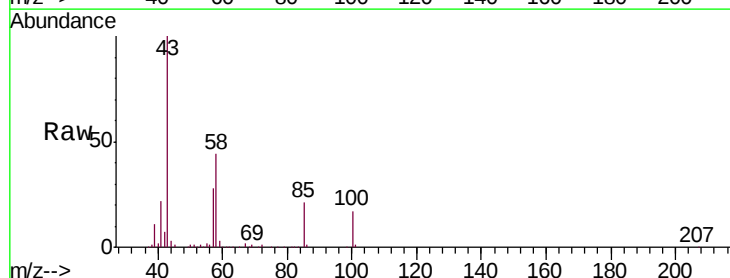
Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0



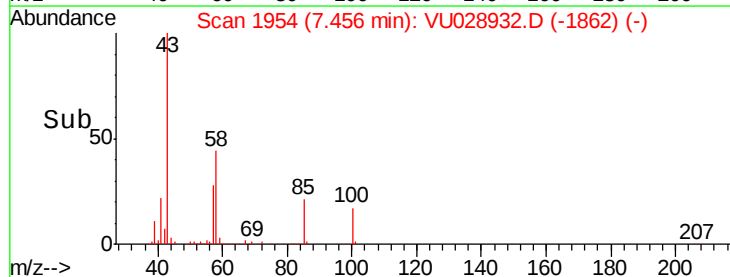
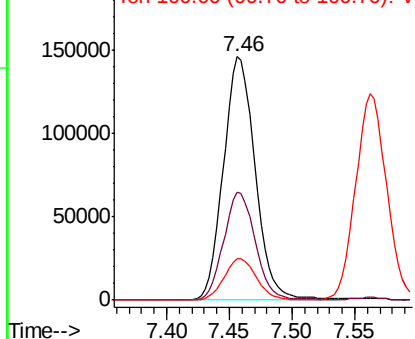
#40

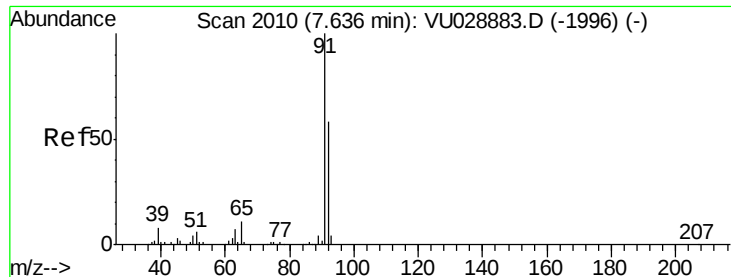
4-Methyl-2-pentanone
 Concen: 83.939 ug/L
 RT: 7.46 min Scan# 1954
 Delta R.T. -0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Tgt Ion: 43 Resp: 256847
 Ion Ratio Lower Upper
 43 100
 58 44.3 33.1 49.7
 100 17.3 11.5 17.3



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





#42

Toluene

Concen: 49.753 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

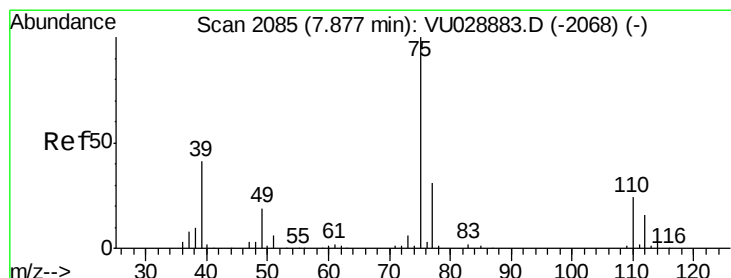
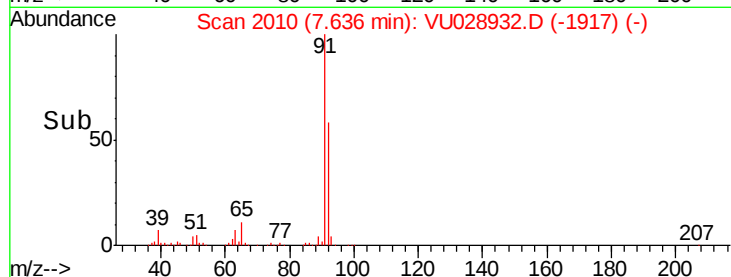
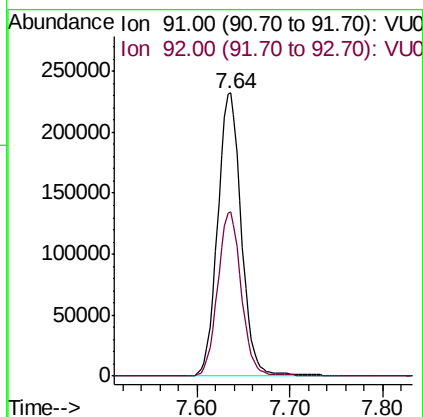
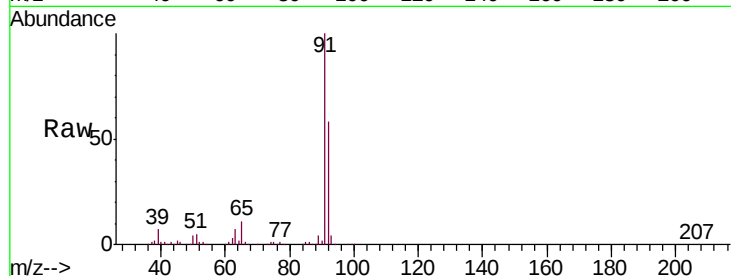
VSTD05046

Tgt Ion: 91 Resp: 410742

Ion Ratio Lower Upper

91 100

92 57.9 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 49.438 ug/L

RT: 7.88 min Scan# 2085

Delta R.T. 0.00 min

Lab File: VU028932.D

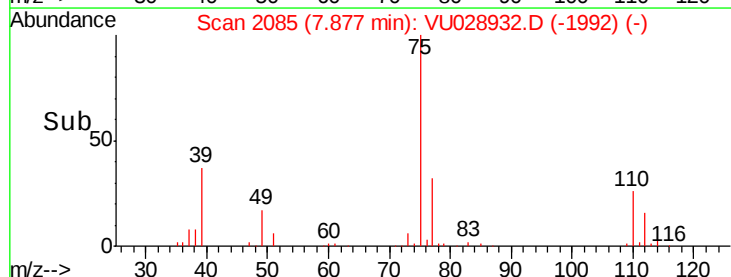
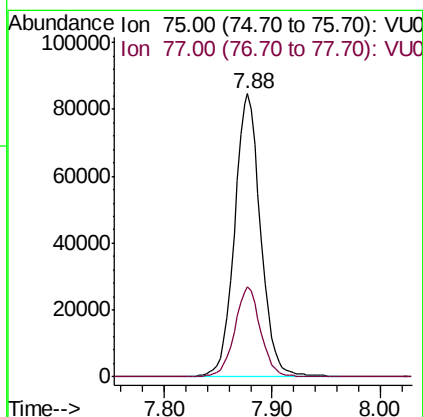
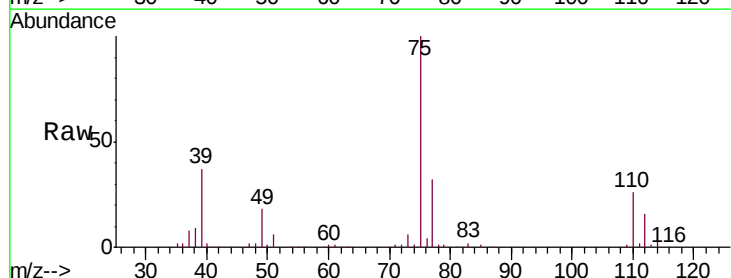
Acq: 24 Dec 2018 08:59

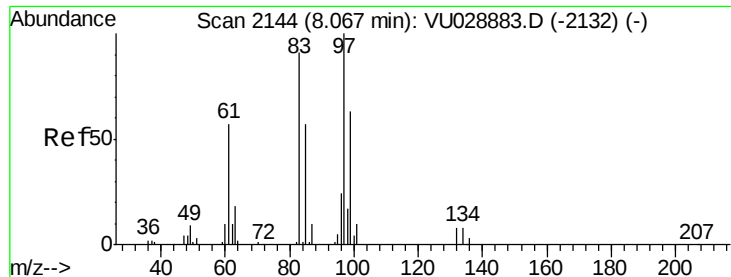
Tgt Ion: 75 Resp: 143030

Ion Ratio Lower Upper

75 100

77 31.9 21.8 40.6

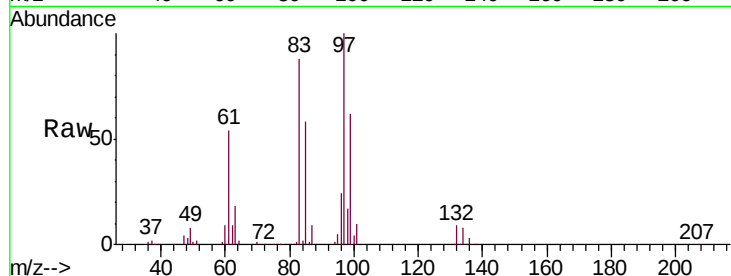




#45
 1,1,2-Trichloroethane
 Concen: 49.194 ug/L
 RT: 8.06 min Scan# 2143
 Delta R.T. -0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:	97	Resp:	95755
Ion	Ratio	Lower	Upper
97	100		
99	61.9	44.2	82.2
83	88.3	64.5	119.9
85	57.6	40.9	75.9



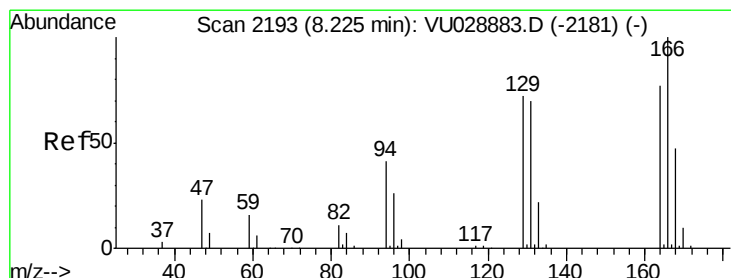
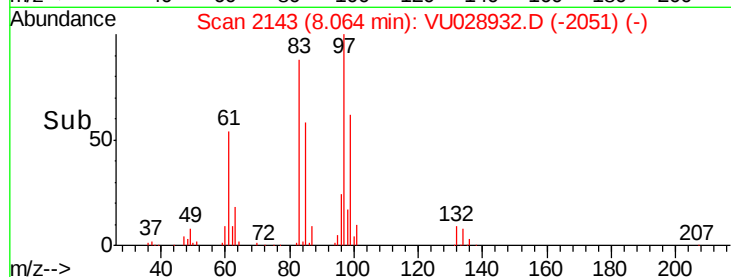
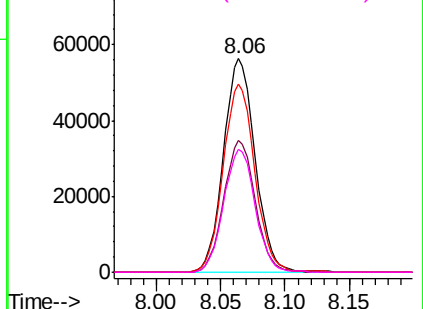
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

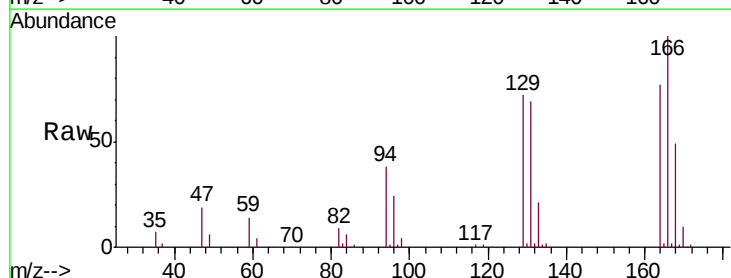
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 52.256 ug/L
 RT: 8.22 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Tgt Ion:	164	Resp:	79131
Ion	Ratio	Lower	Upper
164	100		
129	93.7	66.8	124.0
131	89.6	64.2	119.2
166	129.6	90.8	168.6



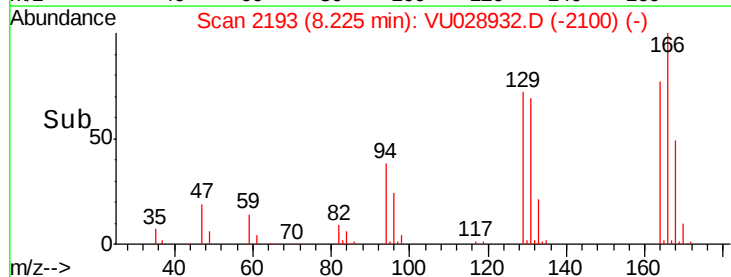
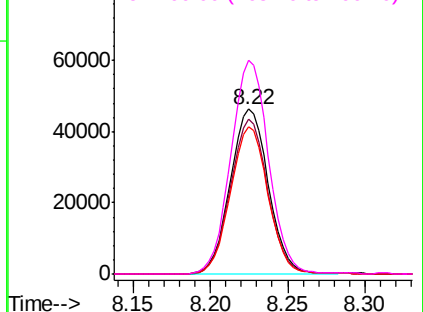
Abundance

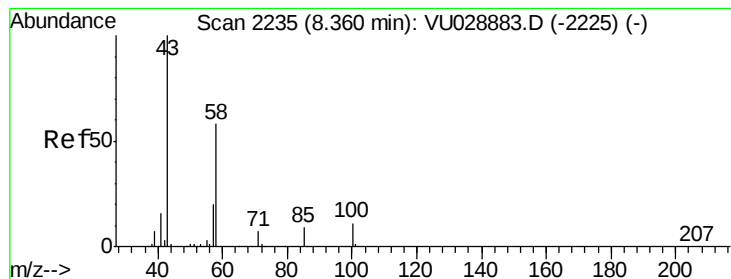
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 89.599 ug/L

RT: 8.36 min Scan# 2235

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

Tgt Ion: 43 Resp: 225026

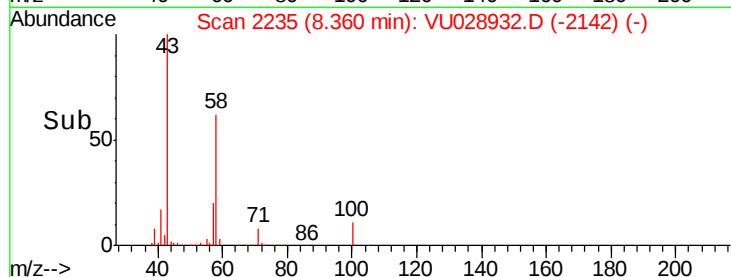
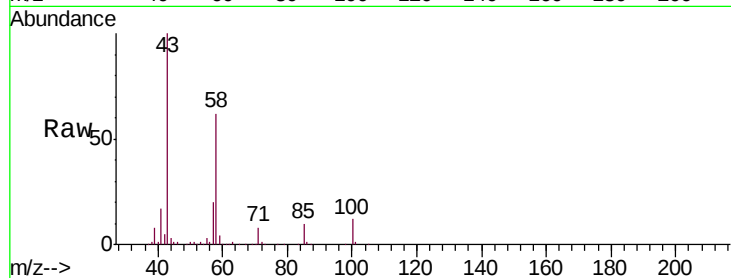
Ion Ratio Lower Upper

43 100

58 61.9 45.9 68.9

57 20.2 15.0 22.4

100 12.8 8.7 13.1

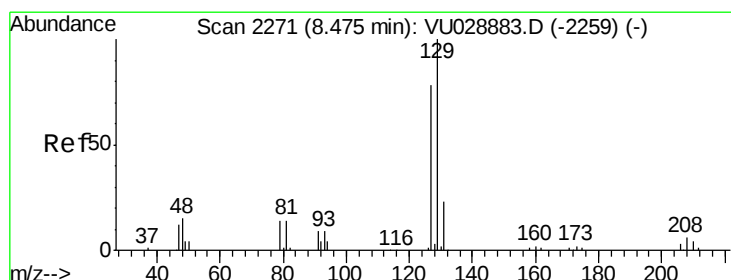
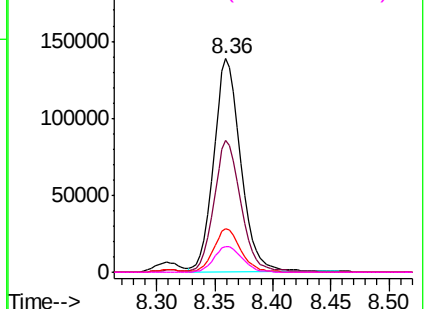


Abundance Ion 43.00 (42.70 to 43.70): VU028883.D (-2225) (-)

Ion 58.00 (57.70 to 58.70): VU028883.D (-2225) (-)

Ion 57.00 (56.70 to 57.70): VU028883.D (-2225) (-)

Ion 100.00 (99.70 to 100.70): VU028883.D (-2225) (-)



#49

Dibromochloromethane

Concen: 51.109 ug/L

RT: 8.48 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VU028932.D

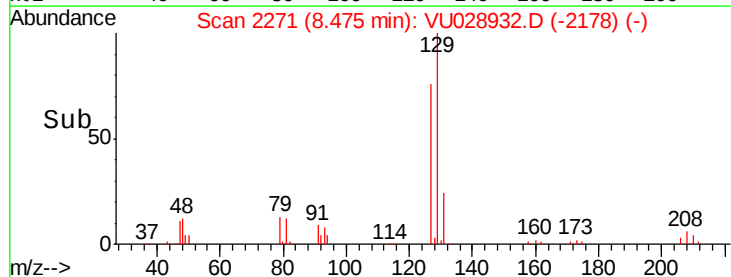
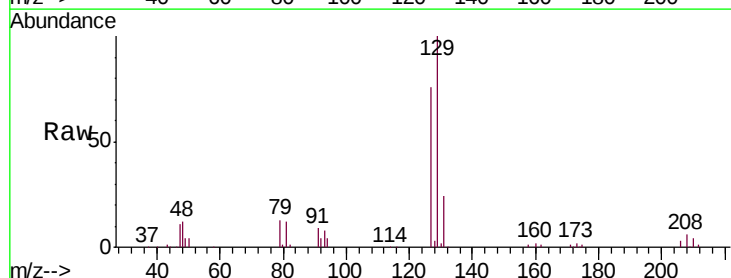
Acq: 24 Dec 2018 08:59

Tgt Ion: 129 Resp: 99092

Ion Ratio Lower Upper

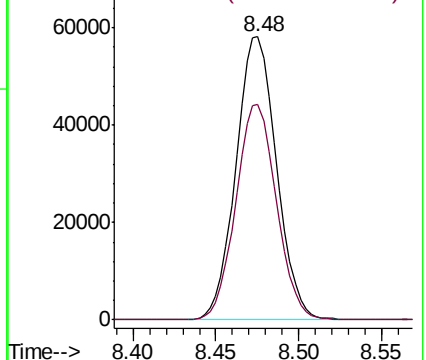
129 100

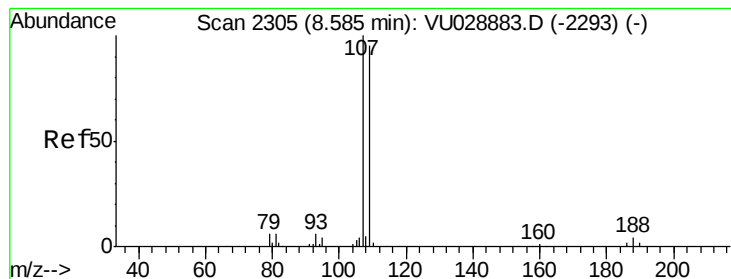
127 76.2 54.1 100.5



Abundance Ion 129.00 (128.70 to 129.70): VU028883.D (-2259) (-)

Ion 127.00 (126.70 to 127.70): VU028883.D (-2259) (-)





#50

1,2-Dibromoethane

Concen: 50.560 ug/L

RT: 8.58 min Scan# 2305

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

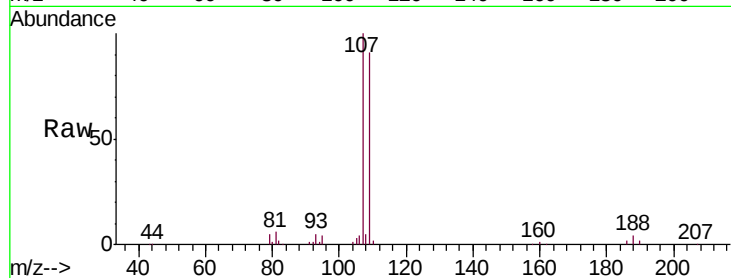
Tgt Ion:107 Resp: 102394

Ion Ratio Lower Upper

107 100

109 91.4 66.0 122.6

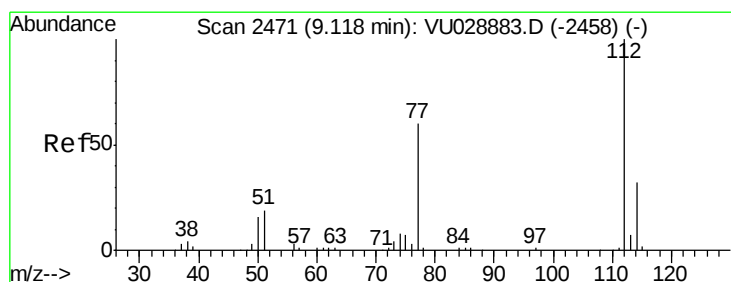
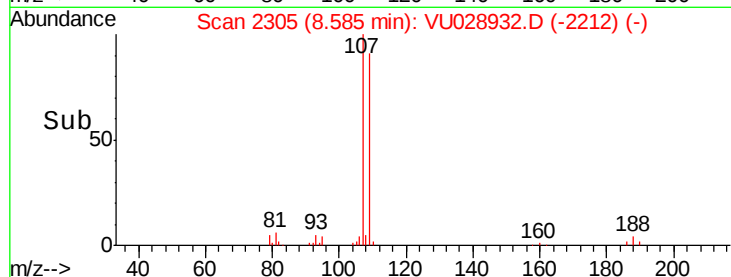
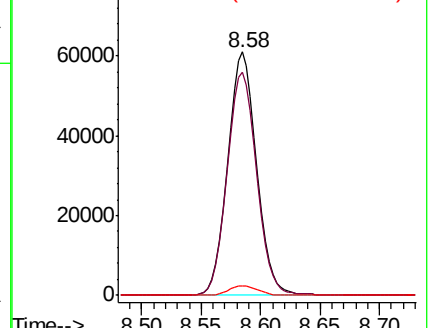
188 3.9 3.1 4.7



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: 50.505 ug/L

RT: 9.12 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

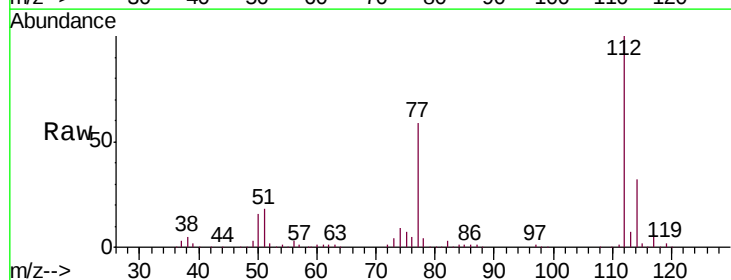
Tgt Ion:112 Resp: 262778

Ion Ratio Lower Upper

112 100

114 32.4 22.2 41.2

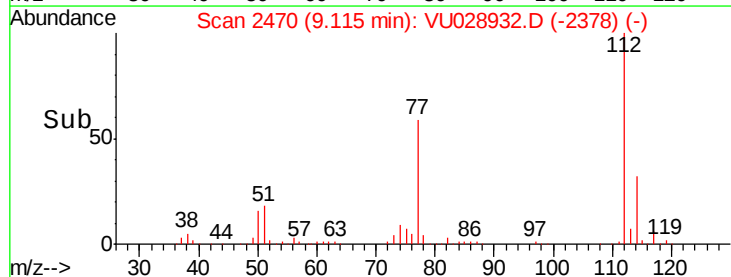
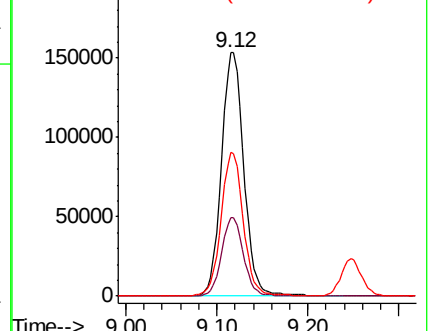
77 59.1 47.8 71.8

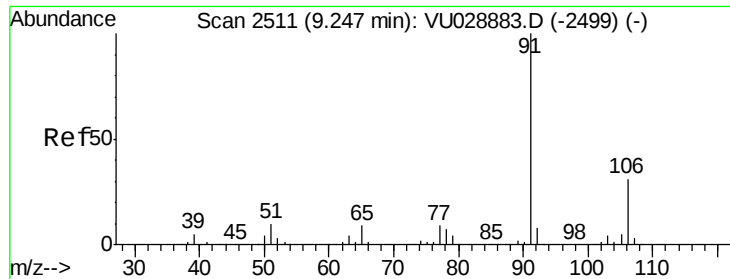


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0

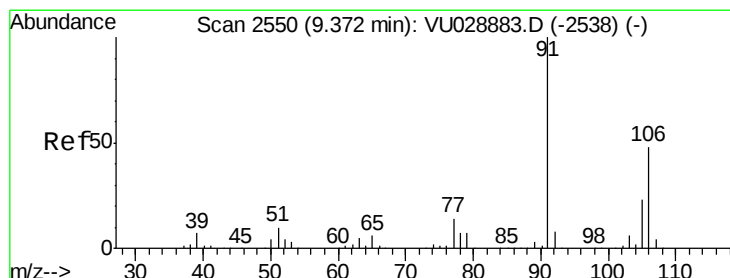
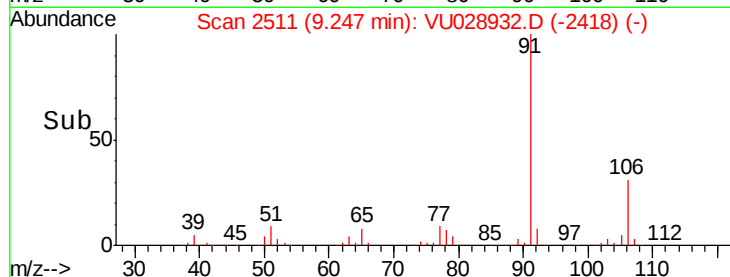
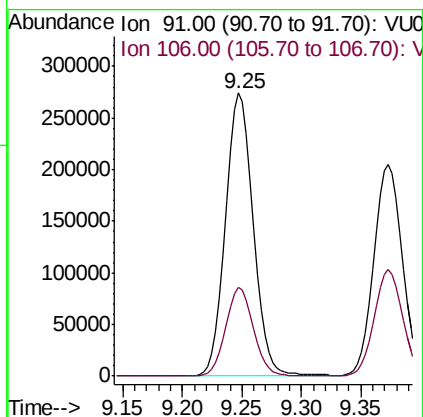
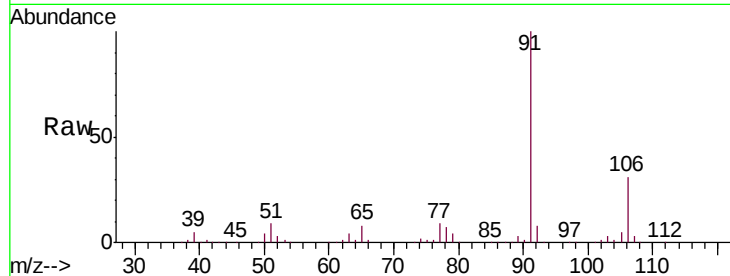




#52
Ethylbenzene
Concen: 50.169 ug/L
RT: 9.25 min Scan# 2511
Delta R.T. 0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

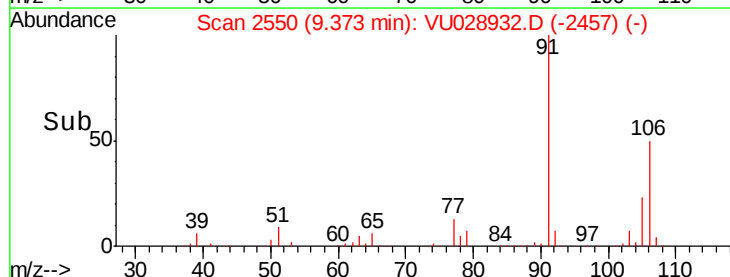
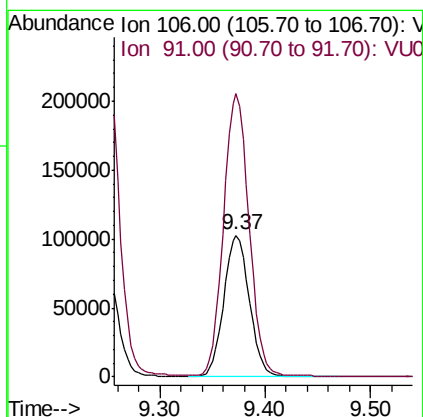
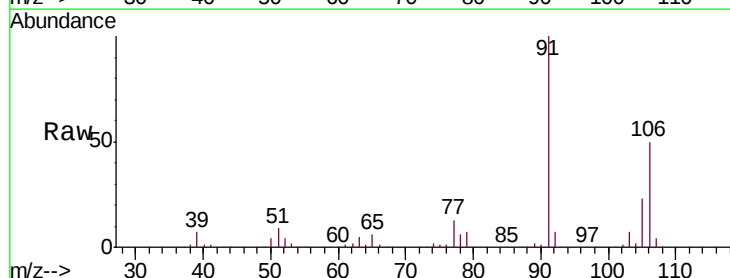
Instrument :
MSVOA_U
ClientSampleId :
VSTD05046

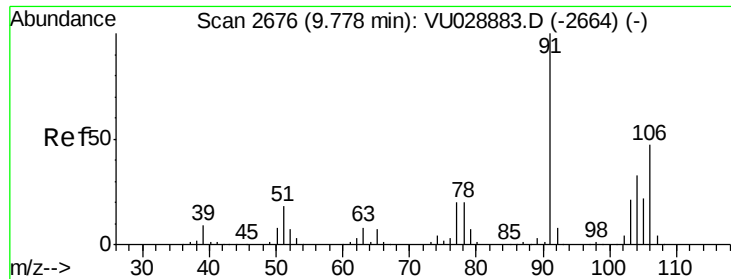
Tgt Ion: 91 Resp: 445031
Ion Ratio Lower Upper
91 100
106 31.3 20.9 38.9



#53
m,p-Xylene
Concen: 52.661 ug/L
RT: 9.37 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VU028932.D
Acq: 24 Dec 2018 08:59

Tgt Ion: 106 Resp: 172743
Ion Ratio Lower Upper
106 100
91 199.5 144.1 267.5





#54

o-xylene

Concen: 51.348 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

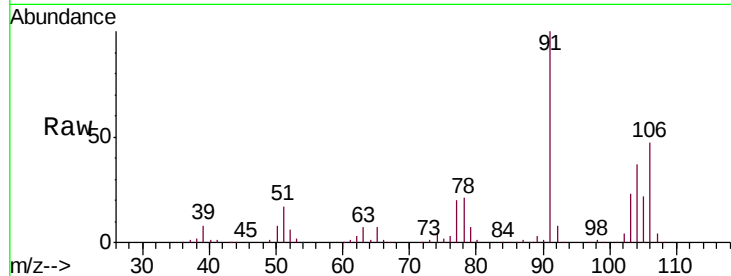
VSTD05046

Tgt Ion:106 Resp: 168817

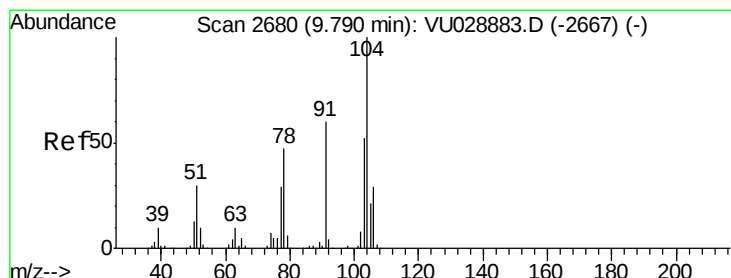
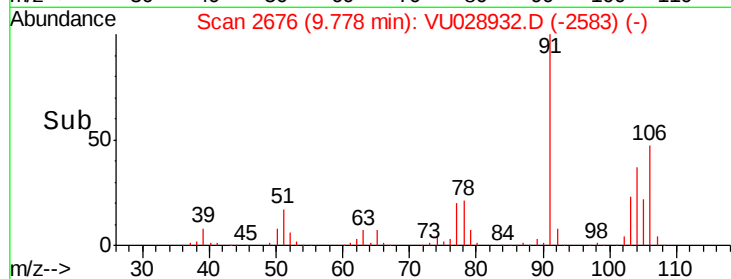
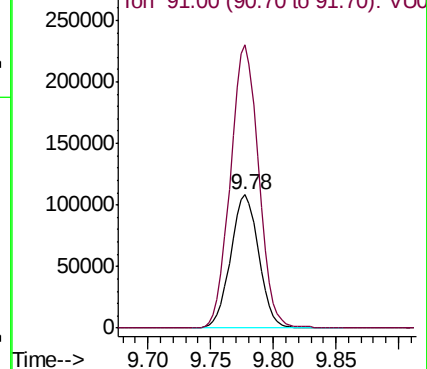
Ion Ratio Lower Upper

106 100

91 212.7 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 51.816 ug/L

RT: 9.79 min Scan# 2680

Delta R.T. 0.00 min

Lab File: VU028932.D

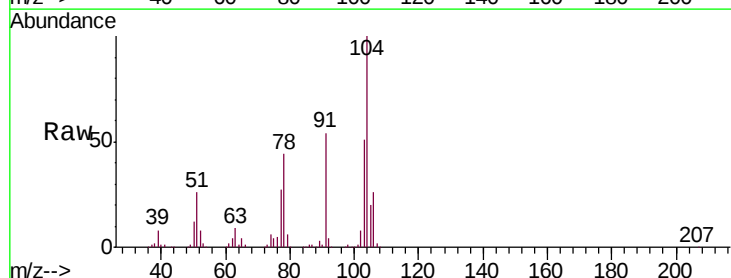
Acq: 24 Dec 2018 08:59

Tgt Ion:104 Resp: 288518

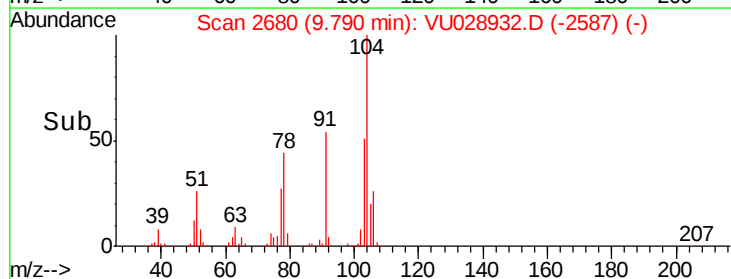
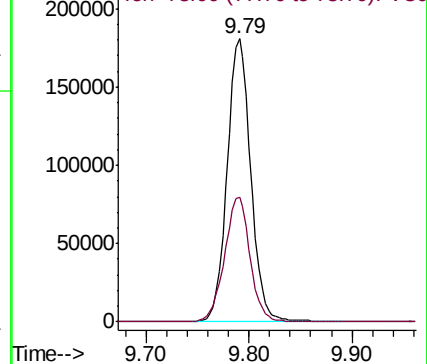
Ion Ratio Lower Upper

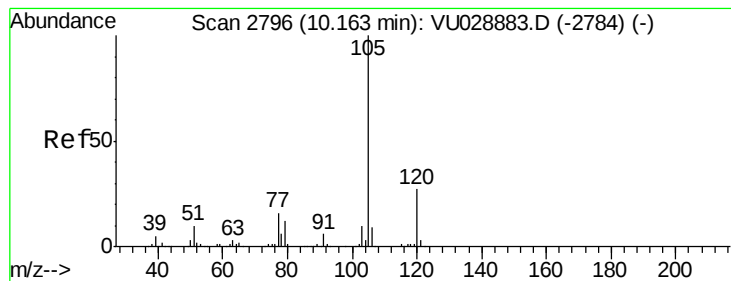
104 100

78 44.1 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V





#56

Isopropylbenzene

Concen: 51.894 ug/L

RT: 10.16 min Scan# 2796

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

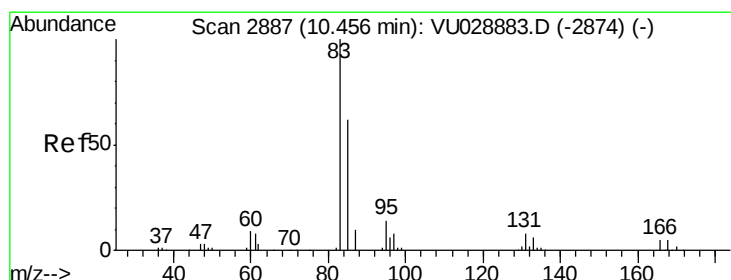
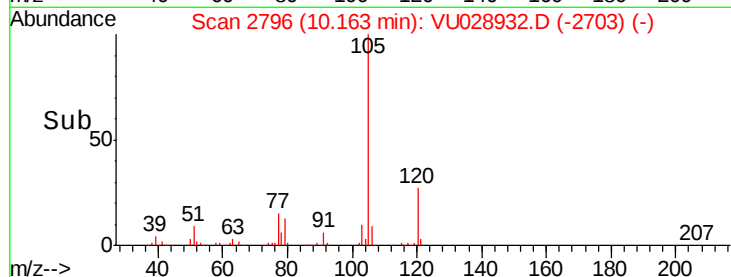
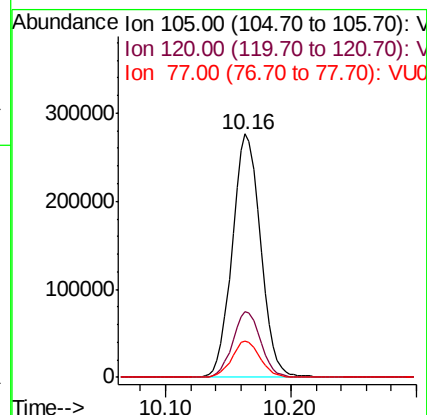
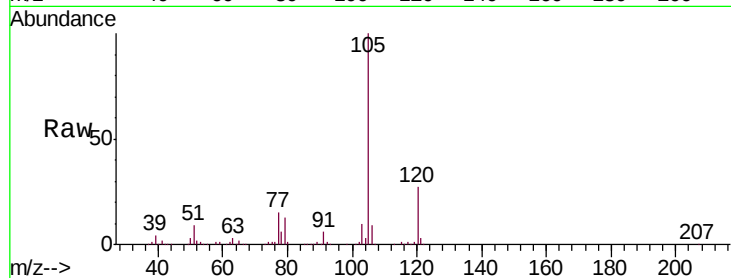
Tgt Ion: 105 Resp: 432800

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

77 15.0 12.3 18.5



#58

1,1,2,2-Tetrachloroethane

Concen: 46.931 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

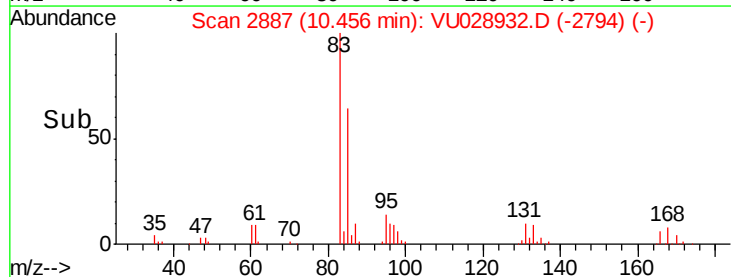
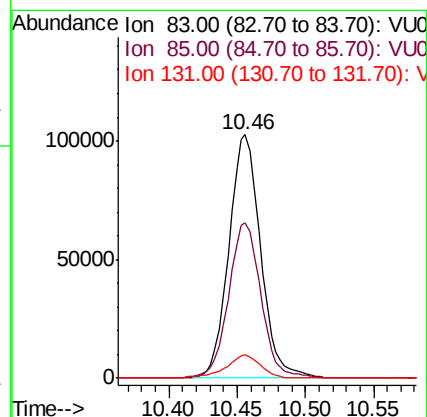
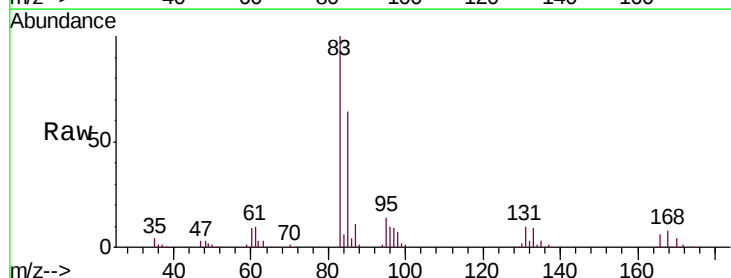
Tgt Ion: 83 Resp: 165953

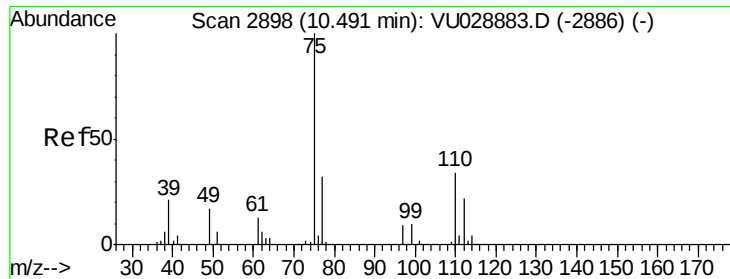
Ion Ratio Lower Upper

83 100

85 64.0 45.3 84.1

131 9.5 6.7 10.1





#59

1,2,3-Trichloropropane

Concen: 46.591 ug/L

RT: 10.49 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

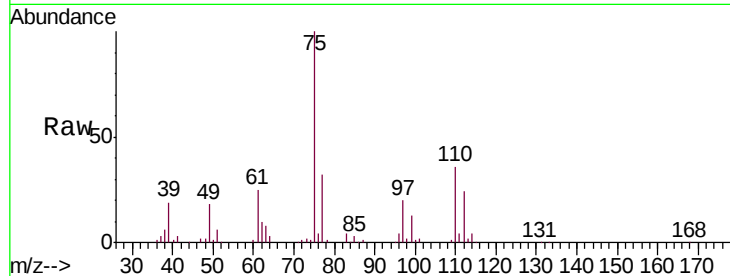
VSTD05046

Tgt Ion: 75 Resp: 126577

Ion Ratio Lower Upper

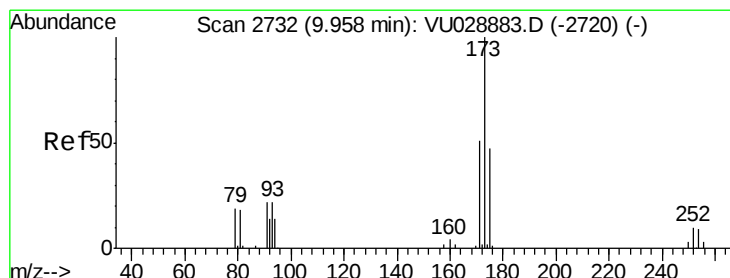
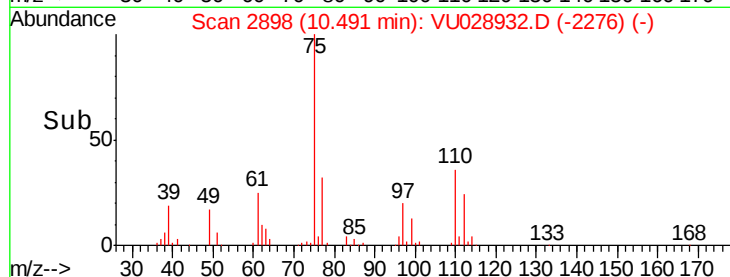
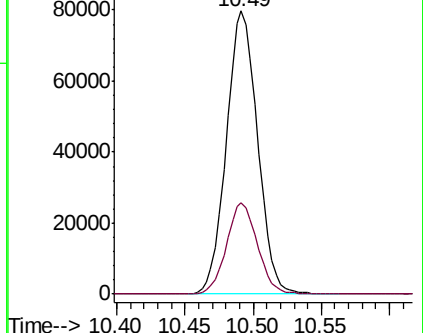
75 100

77 32.0 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU028883.D (-2886) (-)

Ion 77.00 (76.70 to 77.70): VU028883.D (-2886) (-)



#61

Bromoform

Concen: 49.119 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

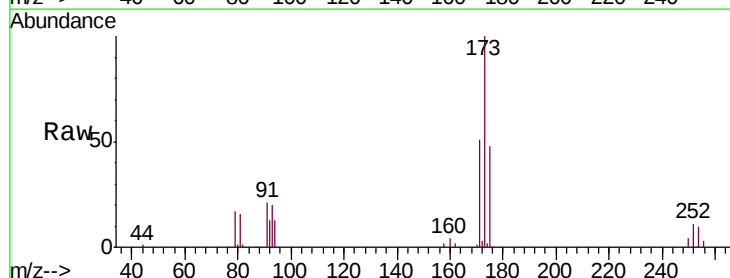
Tgt Ion: 173 Resp: 77483

Ion Ratio Lower Upper

173 100

175 48.0 38.9 58.3

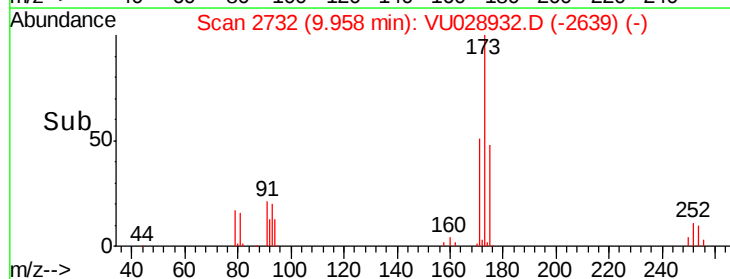
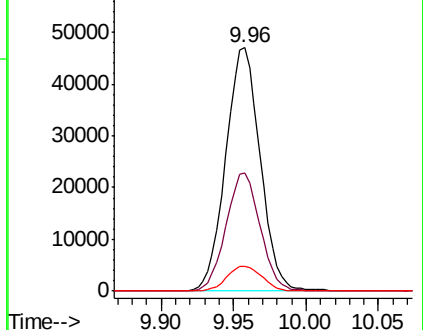
254 10.3 7.8 11.8

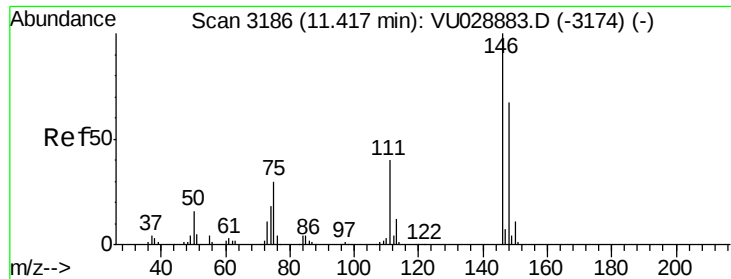


Abundance Ion 173.00 (172.70 to 173.70): VU028883.D (-2720) (-)

Ion 175.00 (174.70 to 175.70): VU028883.D (-2720) (-)

Ion 254.00 (253.70 to 254.70): VU028883.D (-2720) (-)

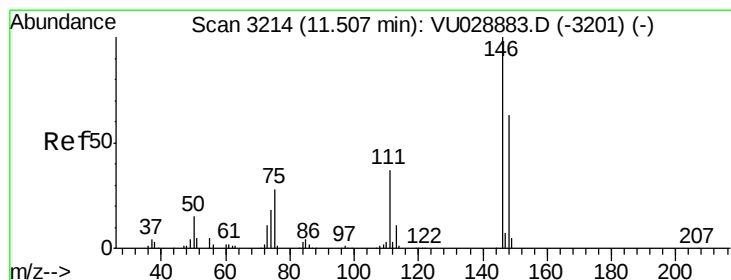
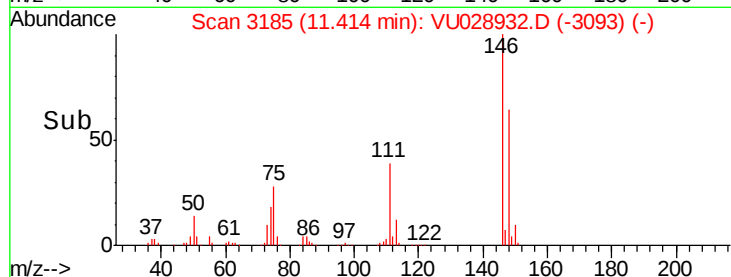
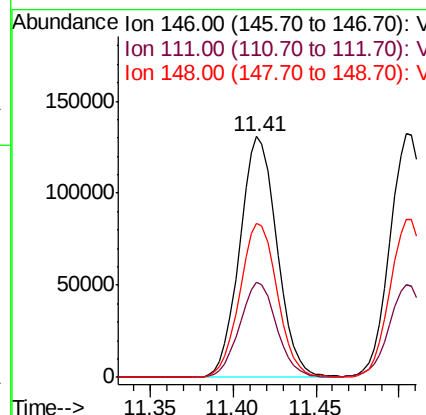
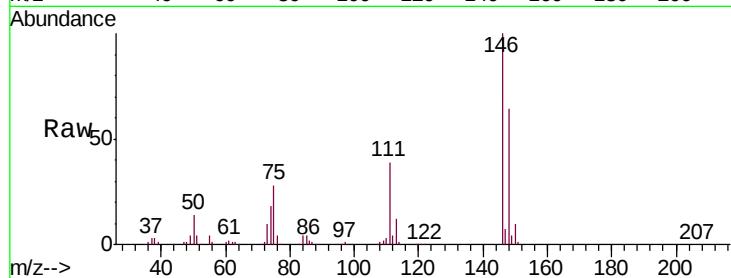




#62
 1,3-Dichlorobenzene
 Concen: 50.623 ug/L
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

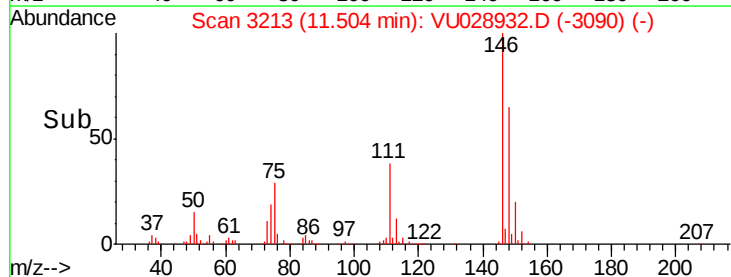
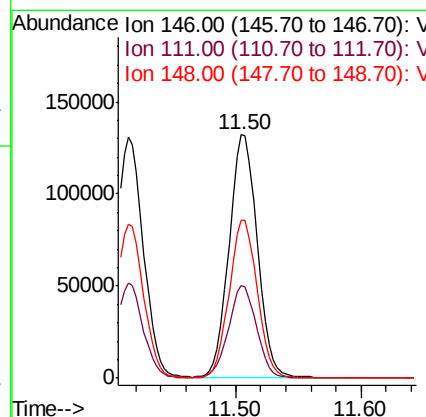
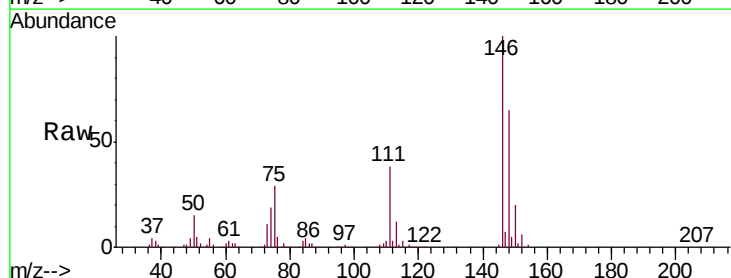
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

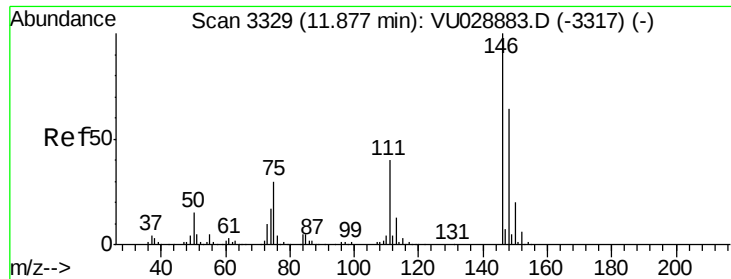
Tgt Ion:146 Resp: 204637
 Ion Ratio Lower Upper
 146 100
 111 39.4 27.4 50.8
 148 64.1 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 49.777 ug/L
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Tgt Ion:146 Resp: 207309
 Ion Ratio Lower Upper
 146 100
 111 38.2 26.5 49.1
 148 65.1 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 49.357 ug/L

RT: 11.88 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

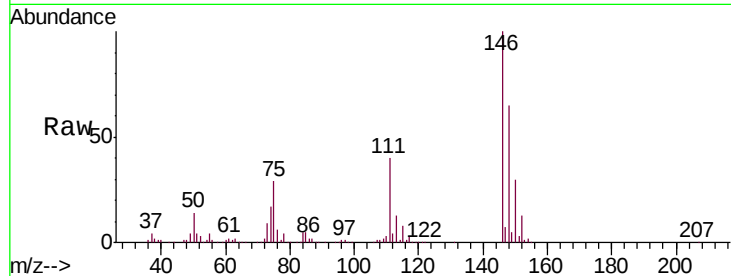
Tgt Ion:146 Resp: 208128

Ion Ratio Lower Upper

146 100

111 40.0 32.1 48.1

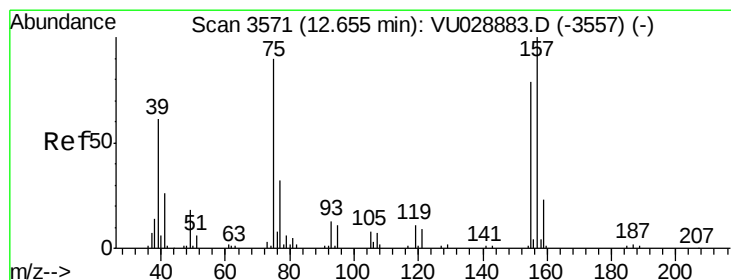
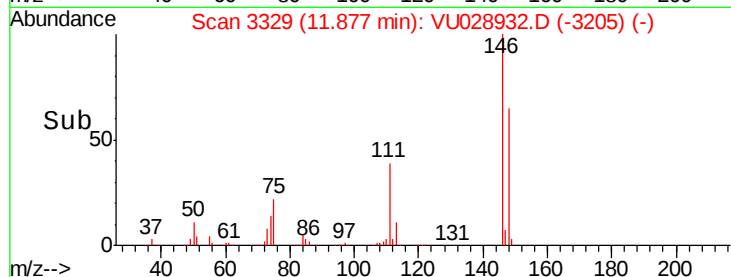
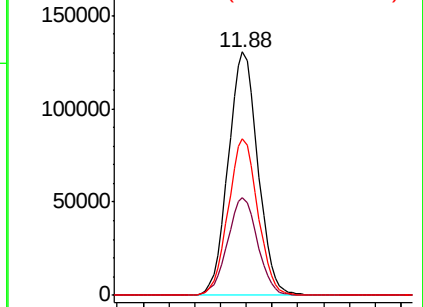
148 64.5 49.7 74.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 45.208 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. 0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

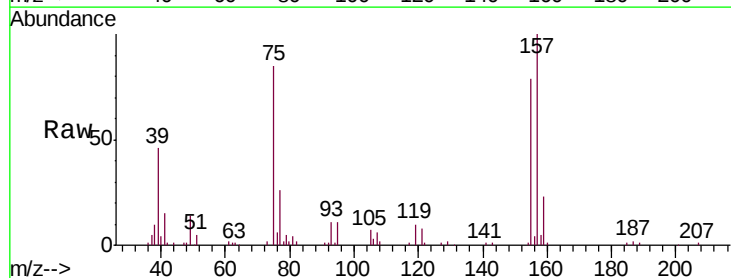
Tgt Ion: 75 Resp: 32883

Ion Ratio Lower Upper

75 100

155 92.7 71.4 107.2

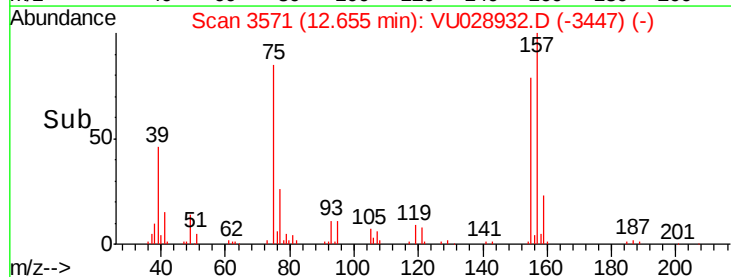
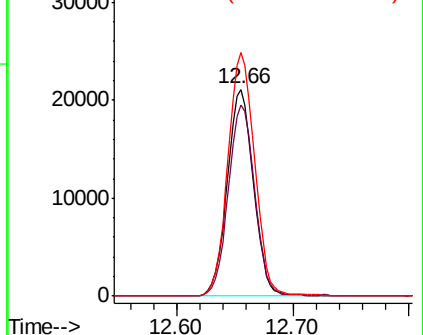
157 117.8 89.6 134.4

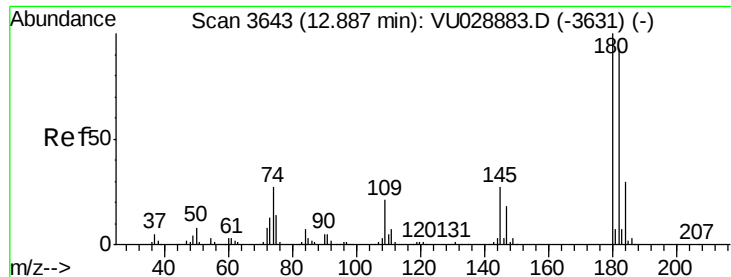


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

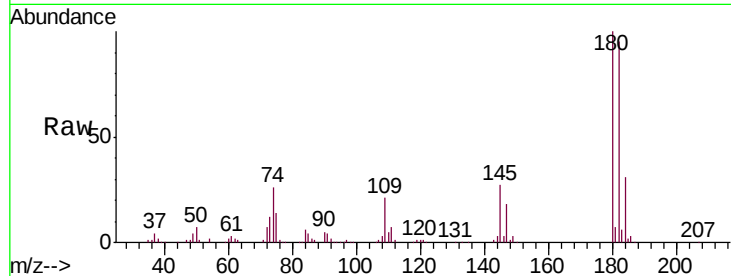




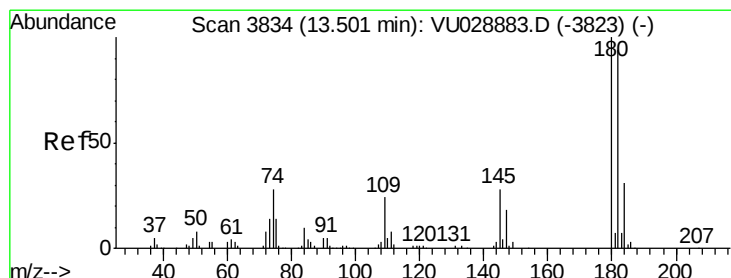
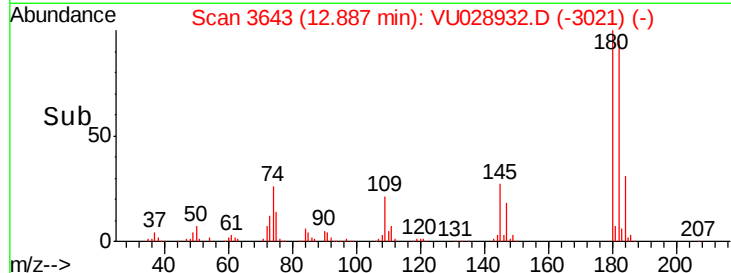
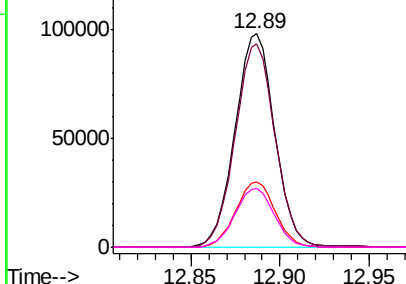
#67
 1,3,5-Trichlorobenzene
 Concen: 51.287 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05046

Tgt Ion:	180	Resp:	152859
Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.4	114.6
184	30.5	24.6	36.8
145	27.5	22.1	33.1

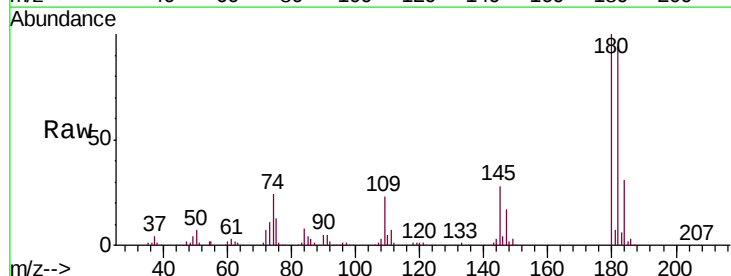


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

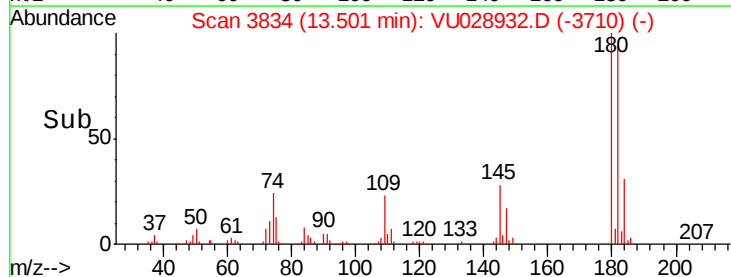
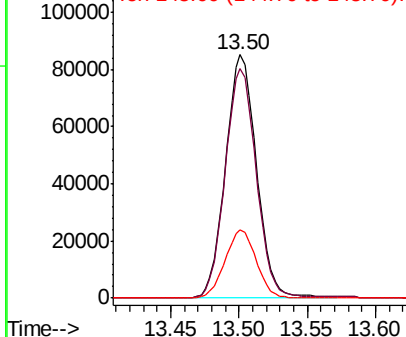


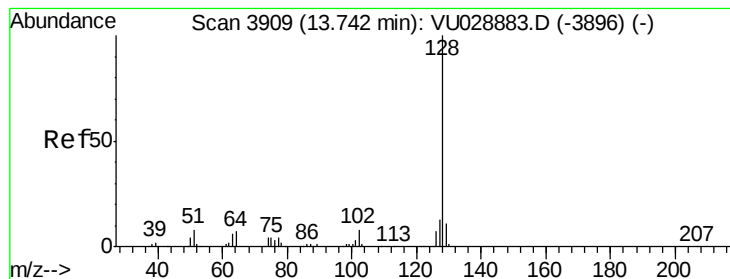
#68
 1,2,4-trichlorobenzene
 Concen: 54.030 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. 0.00 min
 Lab File: VU028932.D
 Acq: 24 Dec 2018 08:59

Tgt Ion:	180	Resp:	134849
Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.4	116.0
145	28.4	23.5	35.3



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: 51.005 ug/L

RT: 13.74 min Scan# 3908

Delta R.T. -0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD05046

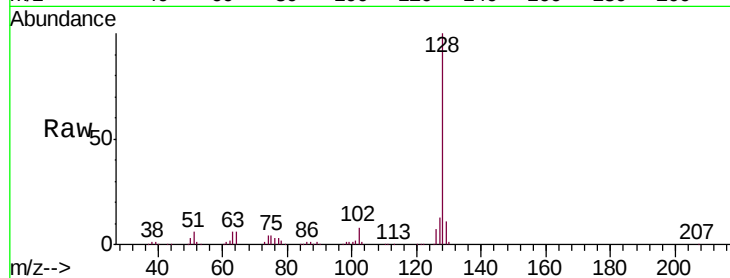
Tgt Ion:128 Resp: 441968

Ion Ratio Lower Upper

128 100

127 12.7 10.5 15.7

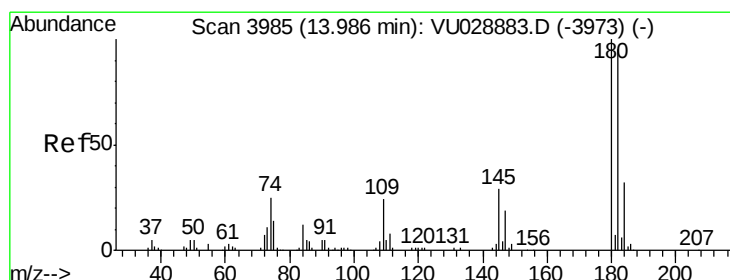
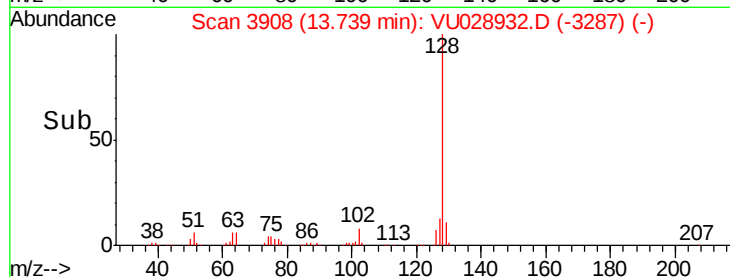
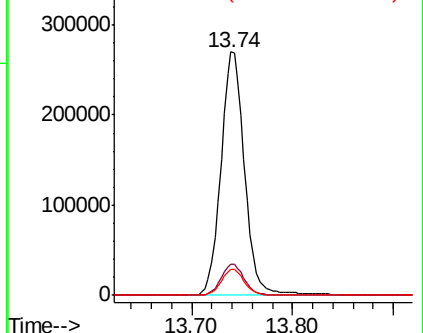
129 10.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.931 ug/L

RT: 13.98 min Scan# 3984

Delta R.T. -0.00 min

Lab File: VU028932.D

Acq: 24 Dec 2018 08:59

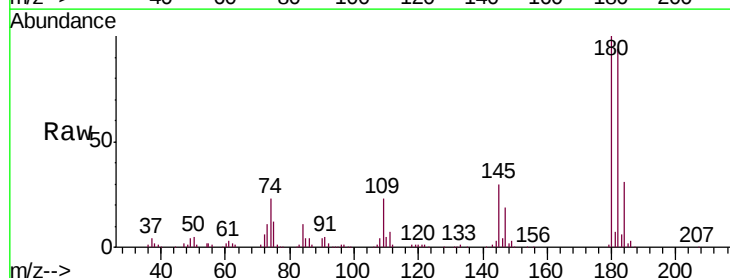
Tgt Ion:180 Resp: 137068

Ion Ratio Lower Upper

180 100

182 95.0 75.8 113.8

145 29.9 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

