

Data File : VU032100.D
Acq On : 17 May 2019 14:46
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

Quant Time: May 18 04:08:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR051619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 17 08:41:24 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	386251	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	395475	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	176677	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	127189	3.91	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.20%
7) Chloroethane-d5	1.67	69	105645	3.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	76.00%
11) 1,1-Dichloroethene-d2	2.27	63	214315	4.13	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.60%
20) 2-Butanone-d5	4.20	46	287908	45.07	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.14%
24) Chloroform-d	4.64	84	265399	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
26) 1,2-Dichloroethane-d4	5.31	65	134044	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
32) Benzene-d6	5.33	84	532676	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.20%
36) 1,2-Dichloropropane-d6	6.32	67	157940	4.48	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.60%
41) Toluene-d8	7.56	98	476122	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
43) trans-1,3-Dichloropropene-	7.85	79	57158	4.50	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.00%
46) 2-Hexanone-d5	8.31	63	263946	46.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.08%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	129372	4.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	170152	4.54	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	92329	4.776	ug/L 99
3) Chloromethane	1.32	50	76095	4.102	ug/L 97
5) Vinyl chloride	1.40	62	87779	4.503	ug/L 96
6) Bromomethane	1.62	94	64924	5.779	ug/L 98
8) Chloroethane	1.69	64	52160	4.315	ug/L 99
9) Trichlorofluoromethane	1.88	101	119739	5.007	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	76506	4.828	ug/L 96
12) 1,1-Dichloroethene	2.28	96	74069	4.775	ug/L # 69
13) Acetone	2.33	43	89828	42.836	ug/L 98
14) Carbon disulfide	2.47	76	229340	4.636	ug/L 98
15) Methyl Acetate	2.62	43	22890	3.807	ug/L 96
16) Methylene chloride	2.69	84	82659	4.465	ug/L 97
17) Methyl tert-butyl Ether	3.00	73	168874	4.631	ug/L 97
18) trans-1,2-Dichloroethene	2.97	96	81696	4.921	ug/L 94
19) 1,1-Dichloroethane	3.43	63	122888	4.666	ug/L 100
21) 2-Butanone	4.28	43	130990	43.519	ug/L 93
22) cis-1,2-Dichloroethene	4.22	96	79538	4.870	ug/L 88

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	35341	5.042	ug/L	93
25) Chloroform	4.67	83	137841	4.894	ug/L	98
27) 1,2-Dichloroethane	5.40	62	76448	4.700	ug/L	98
29) 1,1,1-Trichloroethane	4.90	97	109545	4.748	ug/L	98
30) Cyclohexane	4.98	56	91747	4.324	ug/L	96
31) Carbon tetrachloride	5.12	117	96218	4.905	ug/L	97
33) Benzene	5.38	78	298847	4.921	ug/L	100
34) Trichloroethene	6.18	95	77885	4.728	ug/L	93
35) Methylcyclohexane	6.41	83	110974	4.679	ug/L	96
37) 1,2-Dichloropropane	6.43	63	69072	4.652	ug/L	100
38) Bromodichloromethane	6.75	83	90778	4.780	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	98273	4.787	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	301481	43.801	ug/L	98
42) Toluene	7.63	91	321788	5.060	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	79213	4.962	ug/L	94
45) 1,1,2-Trichloroethane	8.06	97	52135	4.753	ug/L	92
47) Tetrachloroethene	8.22	164	61610	5.003	ug/L	95
48) 2-Hexanone	8.36	43	238075	44.593	ug/L	97
49) Dibromochloromethane	8.47	129	63265	5.005	ug/L	90
50) 1,2-Dibromoethane	8.59	107	50366	4.792	ug/L	92
51) Chlorobenzene	9.12	112	196264	4.886	ug/L	94
52) Ethylbenzene	9.25	91	309541	4.852	ug/L	97
53) m,p-Xylene	9.37	106	122149	5.040	ug/L	96
54) o-Xylene	9.78	106	116429	4.984	ug/L	91
55) Styrene	9.79	104	201404	5.085	ug/L	95
56) Isopropylbenzene	10.16	105	298544	5.000	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.45	83	64945	4.746	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	45132	4.786	ug/L	97
61) Bromoform	9.95	173	34570	5.098	ug/L	96
62) 1,3-Dichlorobenzene	11.41	146	142345	5.057	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	145699	4.973	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	144507	5.060	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	8632	4.631	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	114402	5.460	ug/L	96
68) 1,2,4-trichlorobenzene	13.50	180	80769	5.576	ug/L	96
69) Naphthalene	13.74	128	110951	4.925	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	78331	5.327	ug/L	98

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

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ClientSampleId :
VSTD00504

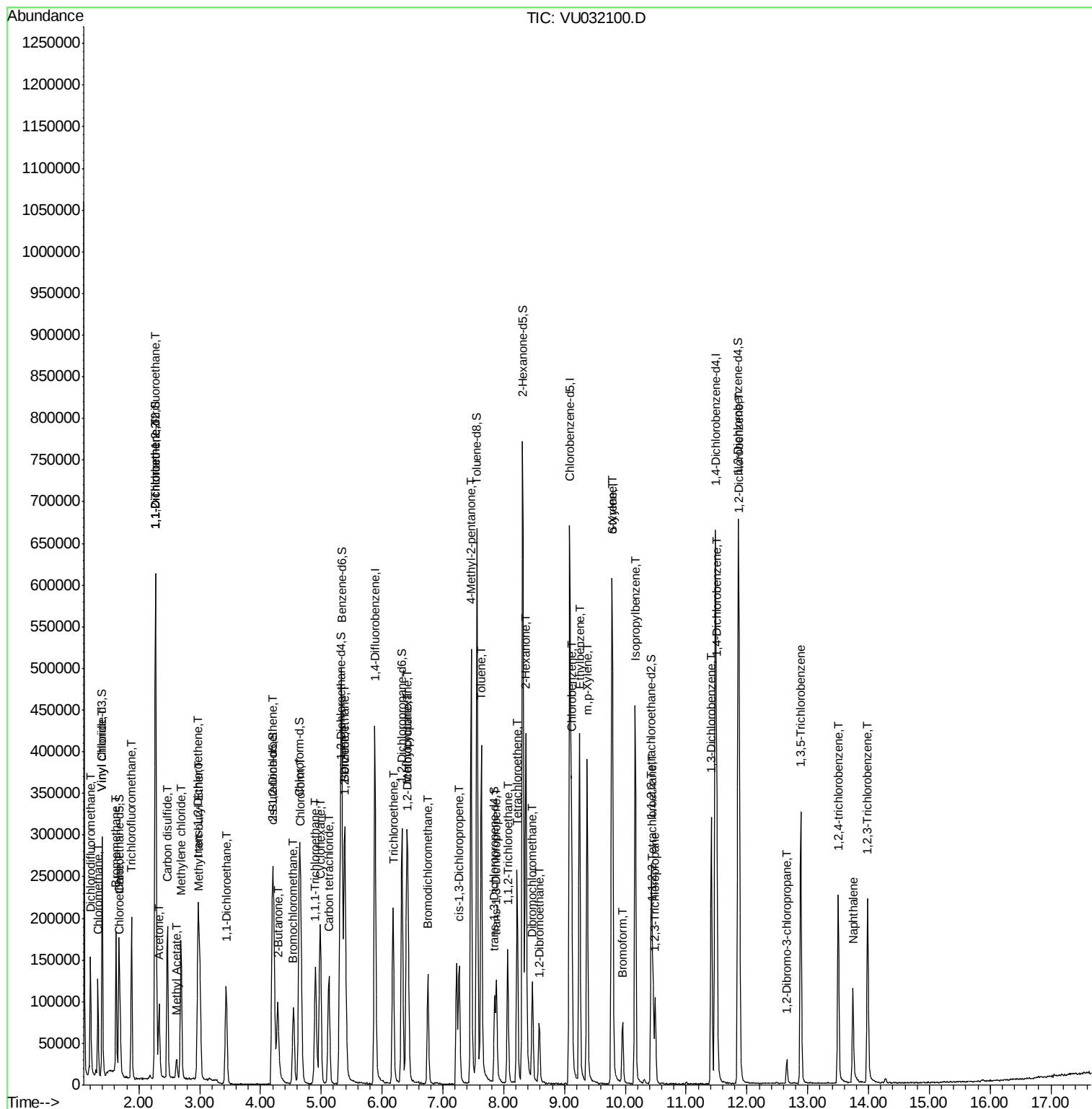
Quant Time: May 18 04:08:46 2019

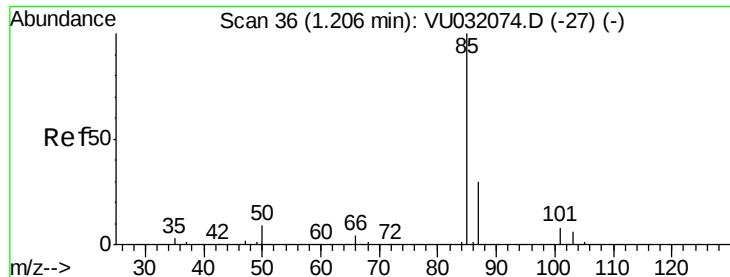
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR051619WMA.M

Quant Title : TRACE VOA SOM01.0

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.776 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

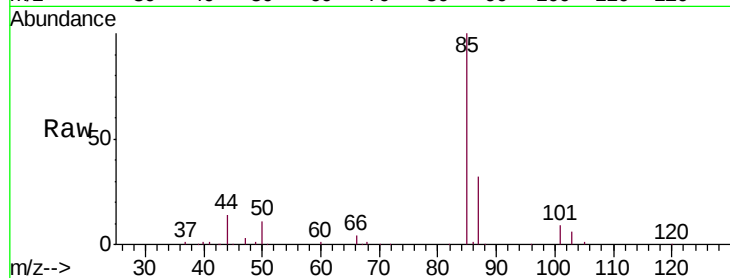
VSTD00504

Tgt Ion: 85 Resp: 92329

Ion Ratio Lower Upper

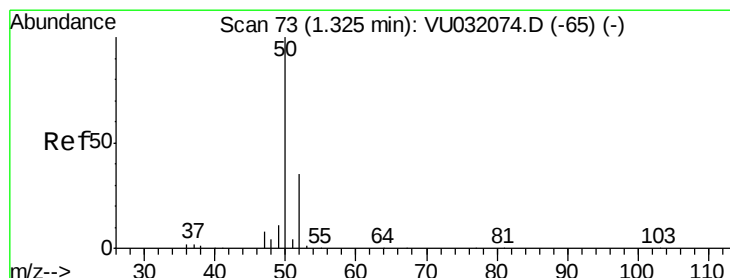
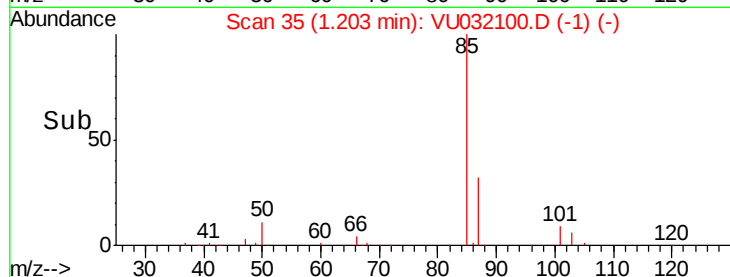
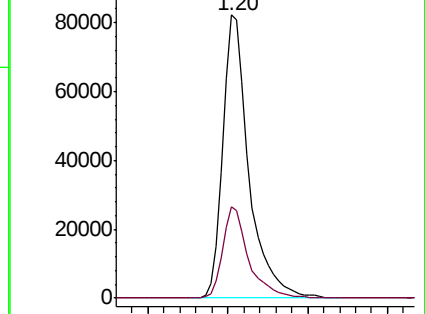
85 100

87 31.8 24.8 37.2



Abundance Ion 85.00 (84.70 to 85.70): VU032100.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU032100.D (-1) (-)



#3

Chloromethane

Concen: 4.102 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032100.D

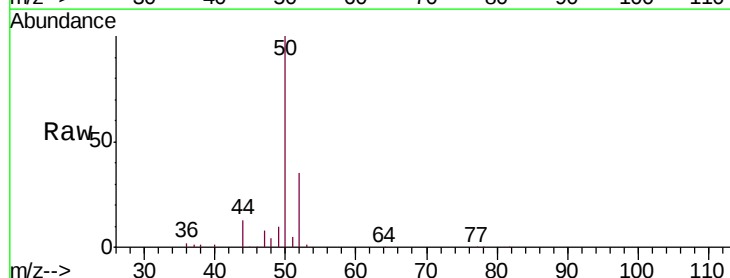
Acq: 17 May 2019 14:46

Tgt Ion: 50 Resp: 76095

Ion Ratio Lower Upper

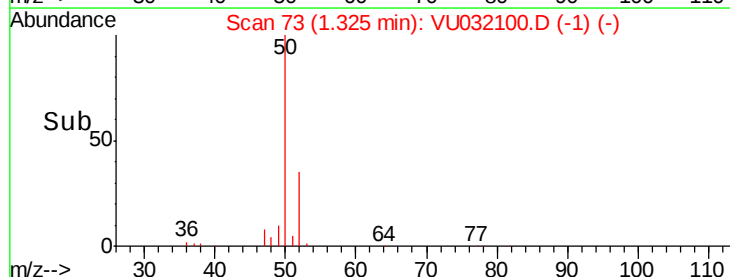
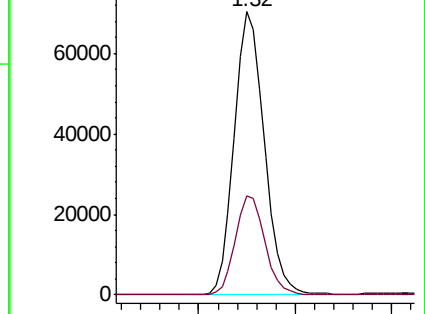
50 100

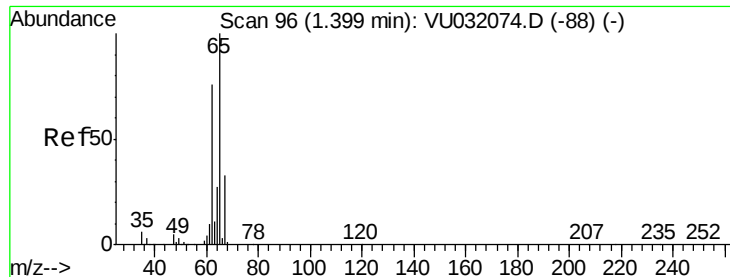
52 34.8 23.2 43.0



Abundance Ion 50.05 (49.75 to 50.75): VU032100.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU032100.D (-1) (-)





#5

Vinyl chloride

Concen: 4.503 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

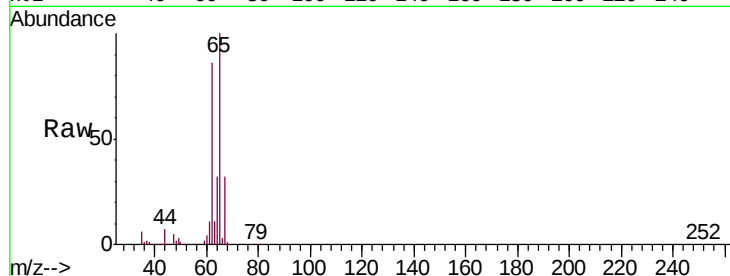
VSTD00504

Tgt Ion: 62 Resp: 87779

Ion Ratio Lower Upper

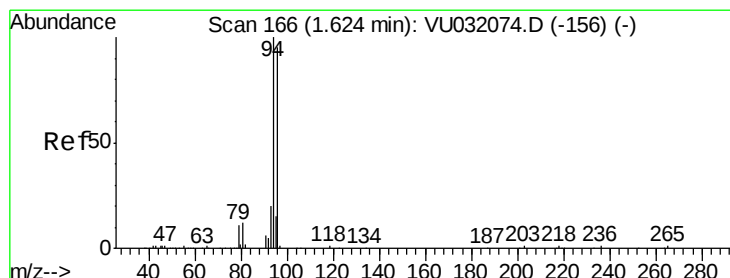
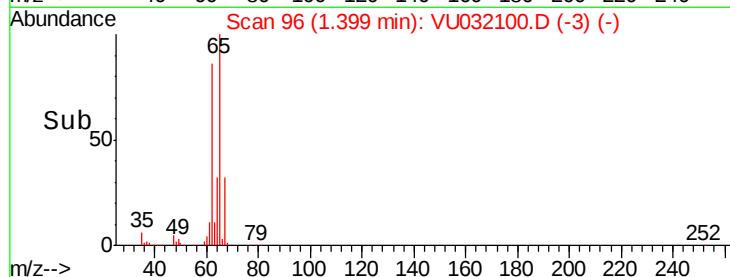
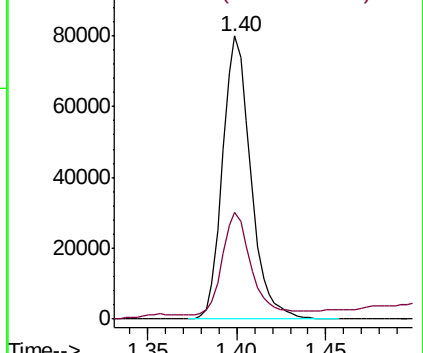
62 100

64 37.9 24.8 46.1



Abundance Ion 62.00 (61.70 to 62.70): VU032100.D (-3) (-)

Ion 64.10 (63.80 to 64.80): VU032100.D (-3) (-)



#6

Bromomethane

Concen: 5.779 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU032100.D

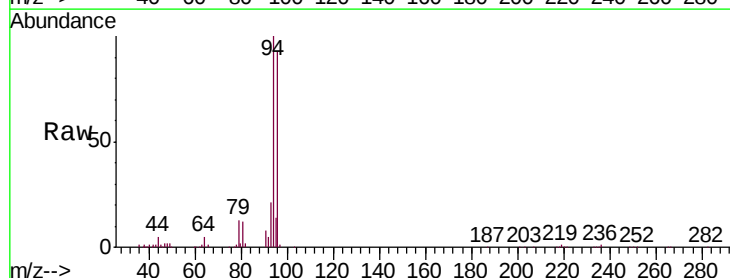
Acq: 17 May 2019 14:46

Tgt Ion: 94 Resp: 64924

Ion Ratio Lower Upper

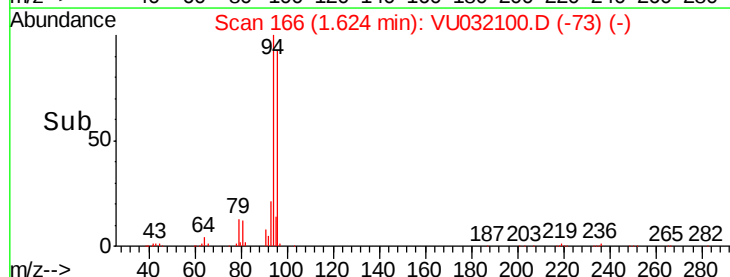
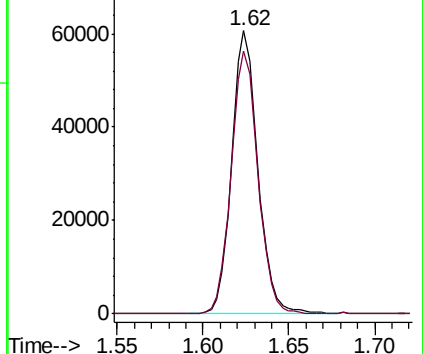
94 100

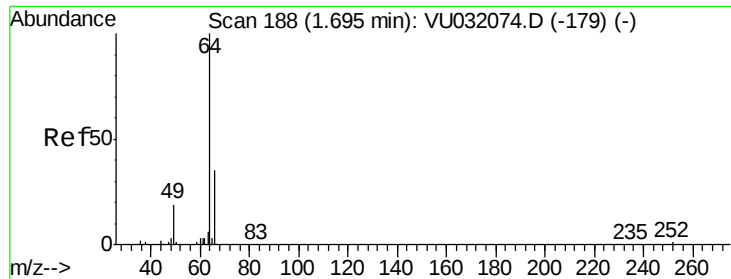
96 92.8 63.3 117.7



Abundance Ion 94.00 (93.70 to 94.70): VU032100.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU032100.D (-73) (-)

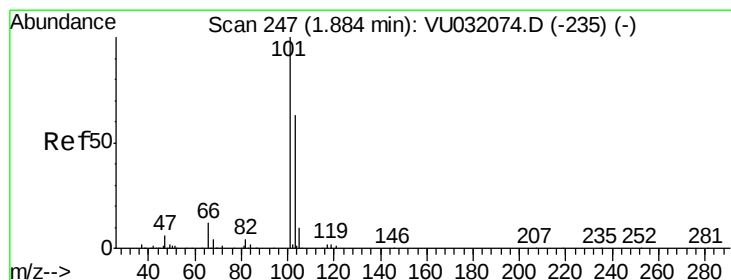
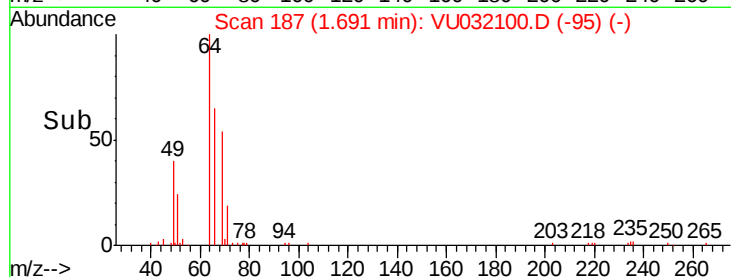
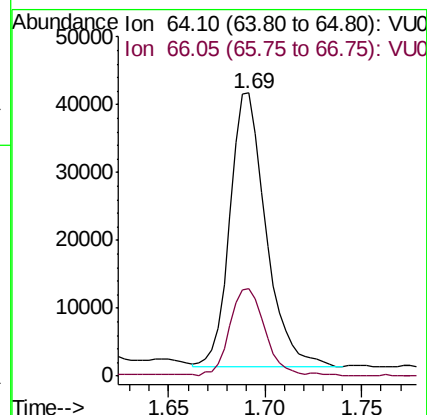
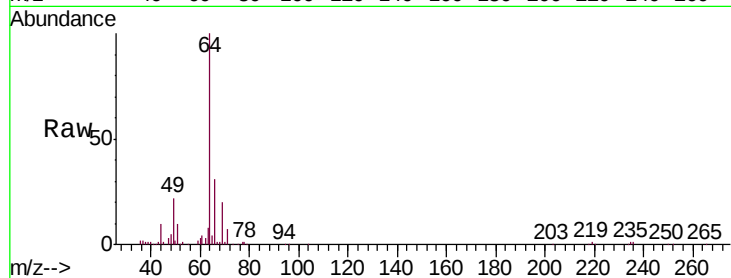




#8
Chloroethane
Concen: 4.315 ug/L
RT: 1.69 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU032100.D
Acq: 17 May 2019 14:46

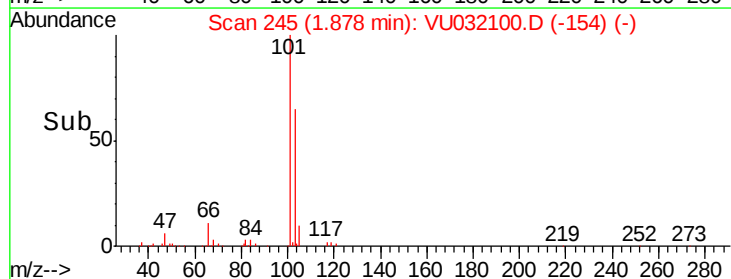
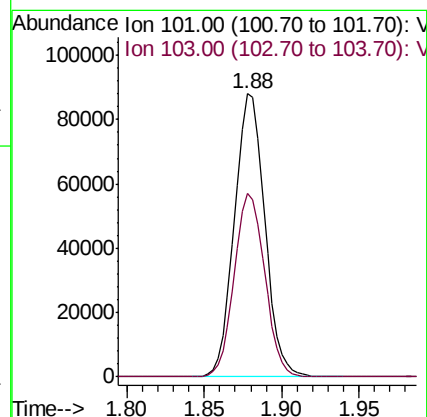
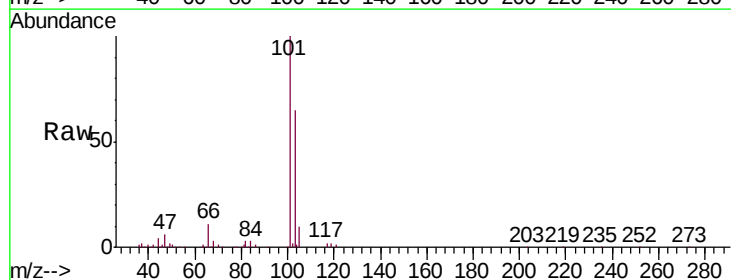
Instrument :
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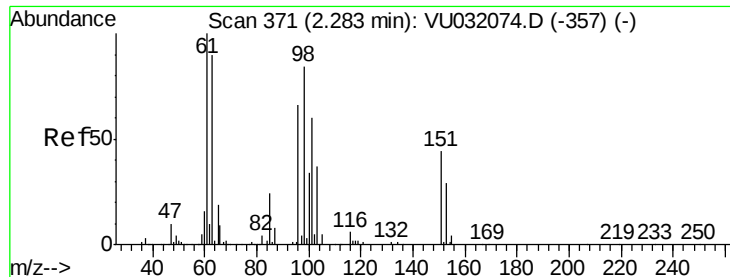
Tgt Ion: 64 Resp: 52160
Ion Ratio Lower Upper
64 100
66 31.0 22.0 41.0



#9
Trichlorofluoromethane
Concen: 5.007 ug/L
RT: 1.88 min Scan# 245
Delta R.T. -0.01 min
Lab File: VU032100.D
Acq: 17 May 2019 14:46

Tgt Ion: 101 Resp: 119739
Ion Ratio Lower Upper
101 100
103 64.9 51.4 77.0





#10

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

Concen: 4.828 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

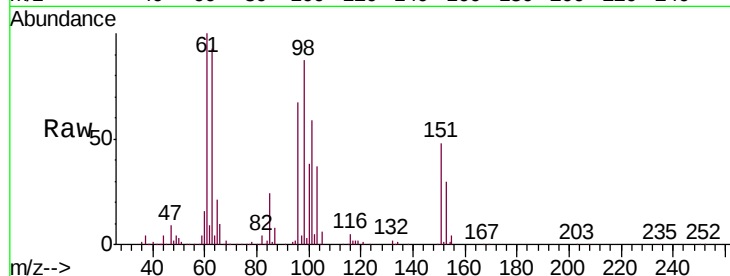
Tgt Ion:101 Resp: 76506

Ion Ratio Lower Upper

101 100

85 39.8 33.8 50.8

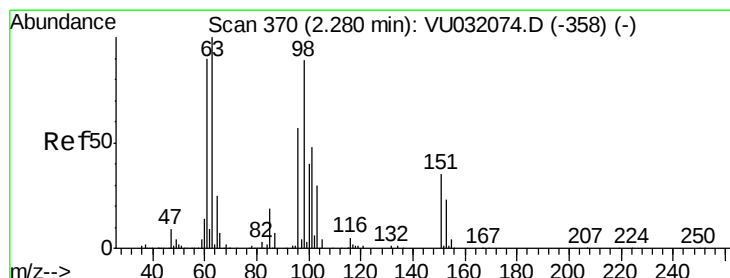
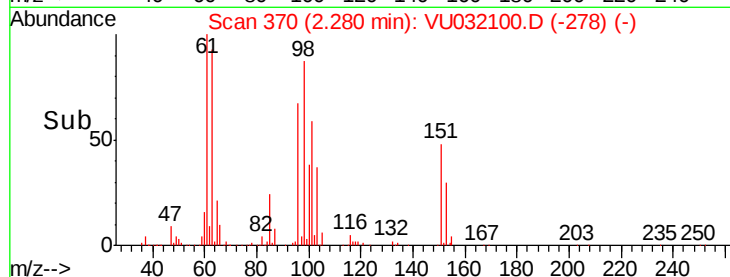
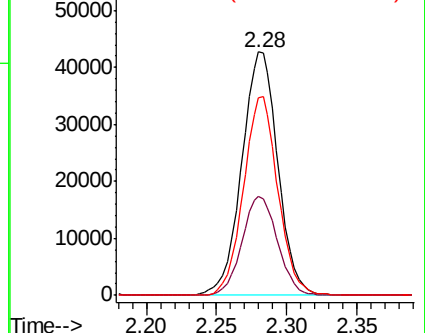
151 77.8 59.4 89.2



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: 4.775 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

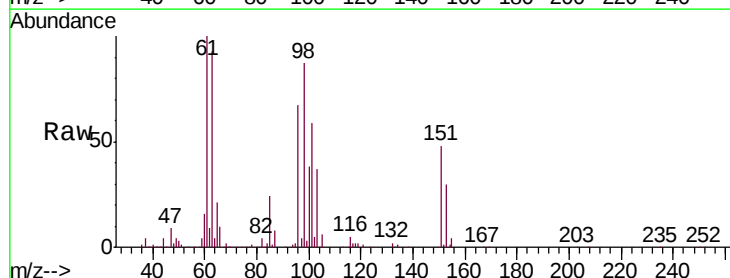
Tgt Ion: 96 Resp: 74069

Ion Ratio Lower Upper

96 100

61 149.2 111.7 207.5

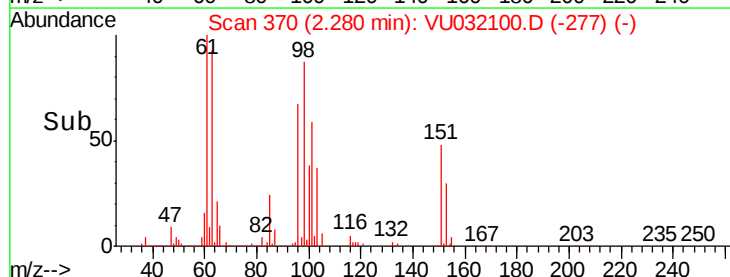
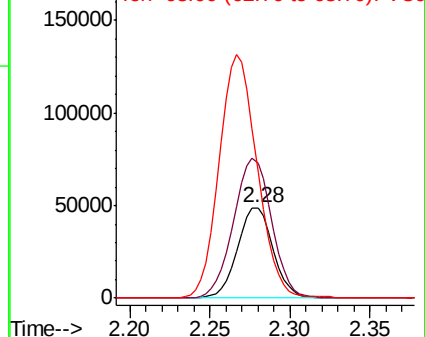
63 139.5 152.2 282.6#

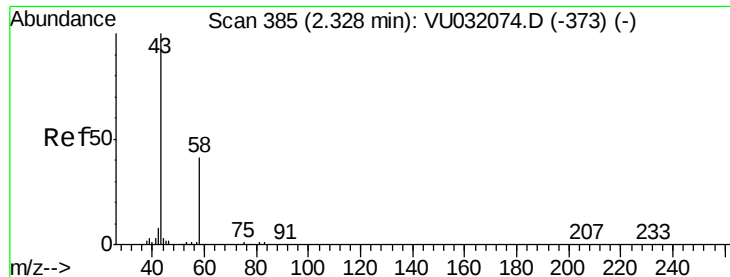


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 42.836 ug/L

RT: 2.33 min Scan# 386

Delta R.T. 0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

Instrument :

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ClientSampleId :

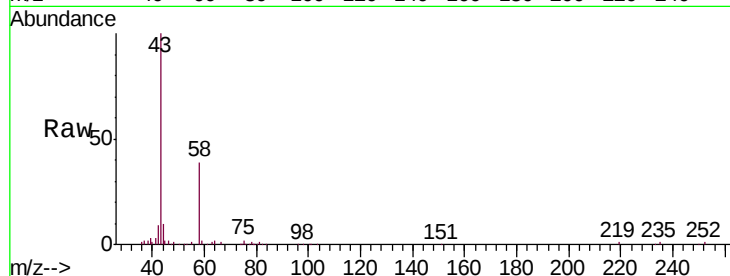
VSTD00504

Tgt Ion: 43 Resp: 89828

Ion Ratio Lower Upper

43 100

58 38.4 0.0 78.8



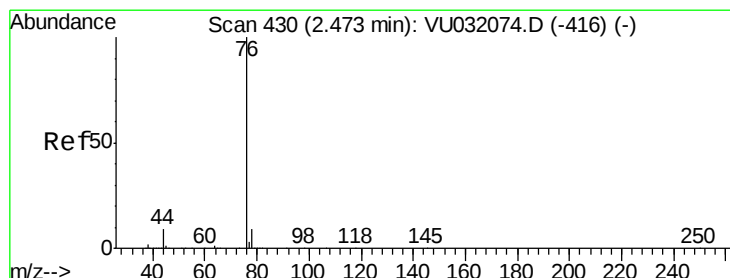
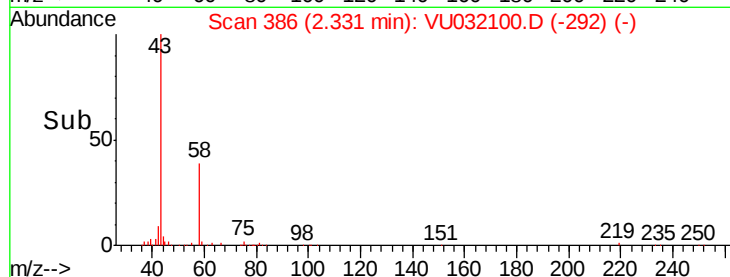
Abundance Ion 43.05 (42.75 to 43.75): VU032074.D (-373) (-)

Ion 58.05 (57.75 to 58.75): VU032074.D (-373) (-)

2.33

2.25 2.30 2.35 2.40 2.45

Time-->



#14

Carbon disulfide

Concen: 4.636 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU032100.D

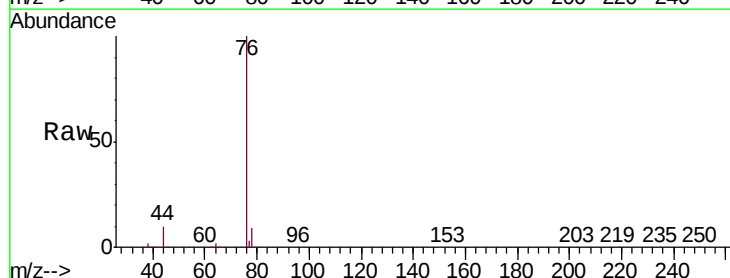
Acq: 17 May 2019 14:46

Tgt Ion: 76 Resp: 229340

Ion Ratio Lower Upper

76 100

78 8.8 7.8 11.6



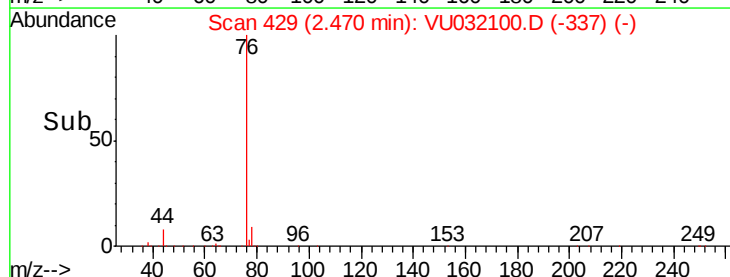
Abundance Ion 76.05 (75.75 to 76.75): VU032074.D (-416) (-)

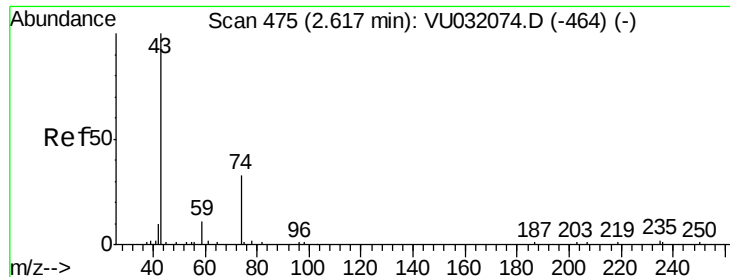
Ion 78.00 (77.70 to 78.70): VU032074.D (-416) (-)

2.47

2.40 2.45 2.50 2.55 2.60

Time-->





#15

Methyl Acetate

Concen: 3.807 ug/L

RT: 2.62 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

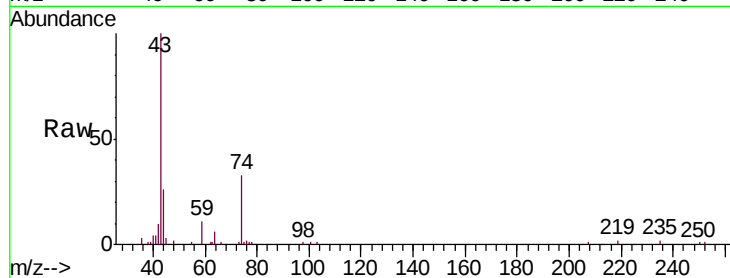
VSTD00504

Tgt Ion: 43 Resp: 22890

Ion Ratio Lower Upper

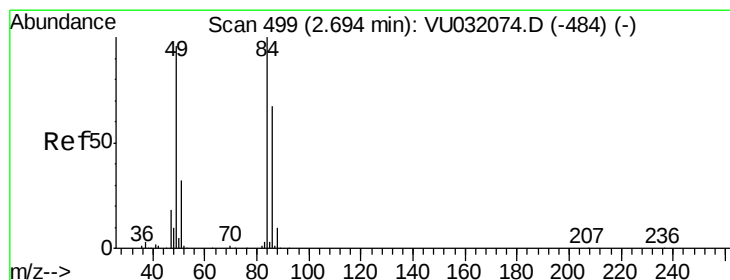
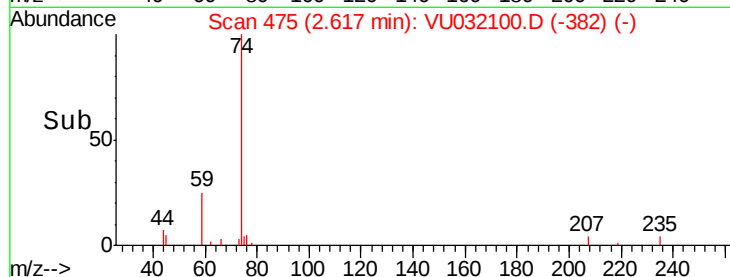
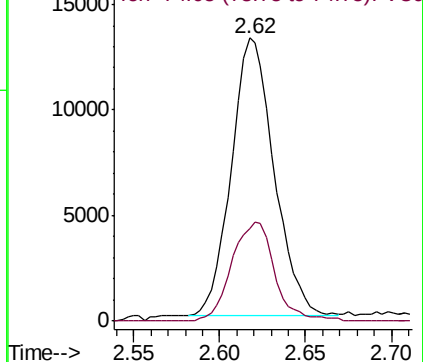
43 100

74 35.5 26.4 39.6



Abundance Ion 43.05 (42.75 to 43.75): VU032100.D (-382) (-)

Ion 74.05 (73.75 to 74.75): VU032100.D (-382) (-)



#16

Methylene chloride

Concen: 4.465 ug/L

RT: 2.69 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

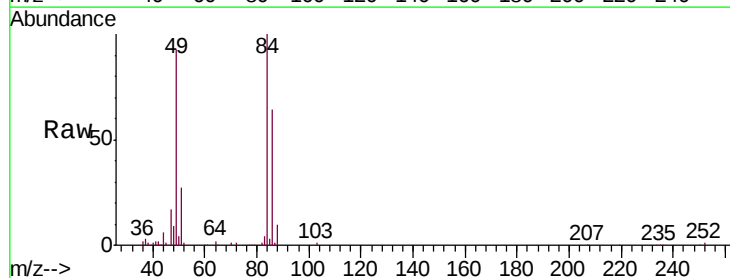
Tgt Ion: 84 Resp: 82659

Ion Ratio Lower Upper

84 100

86 63.6 43.1 80.1

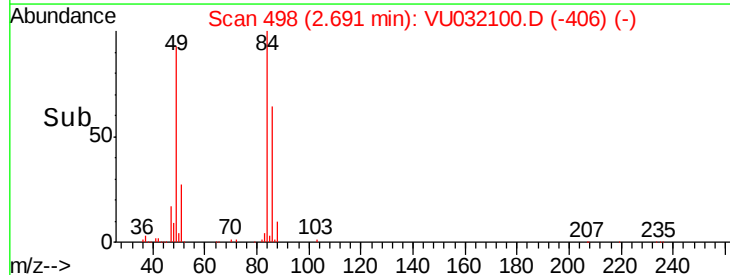
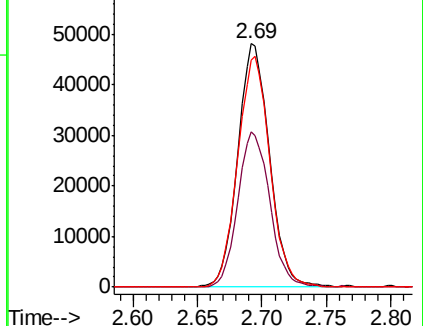
49 93.0 67.7 125.7

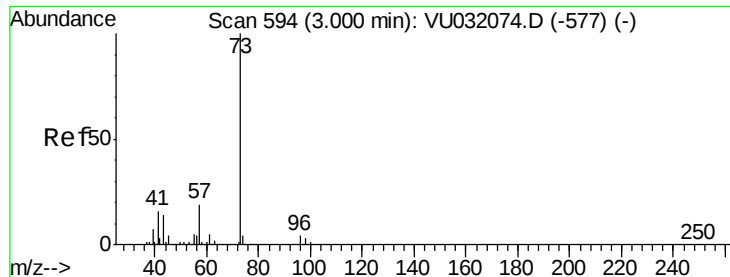


Abundance Ion 84.05 (83.75 to 84.75): VU032100.D (-406) (-)

Ion 86.00 (85.70 to 86.70): VU032100.D (-406) (-)

Ion 49.10 (48.80 to 49.80): VU032100.D (-406) (-)



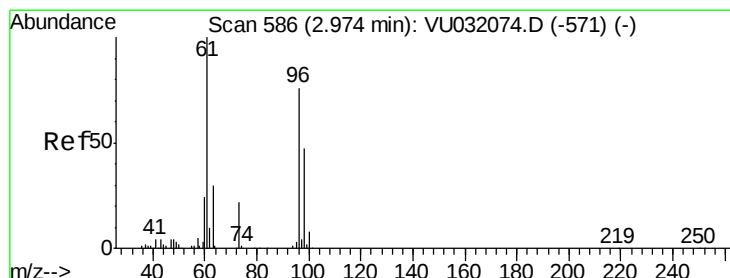
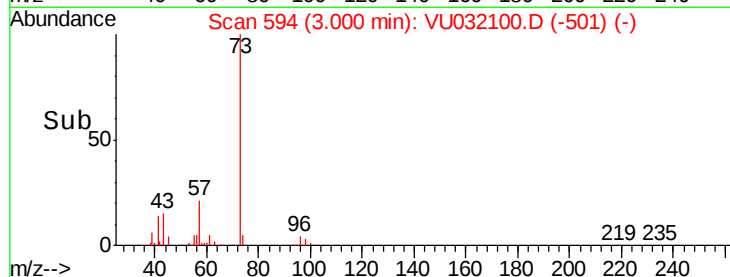
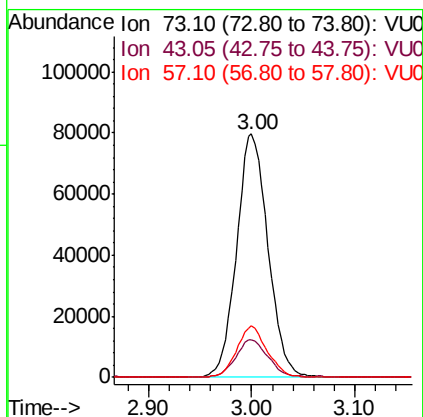
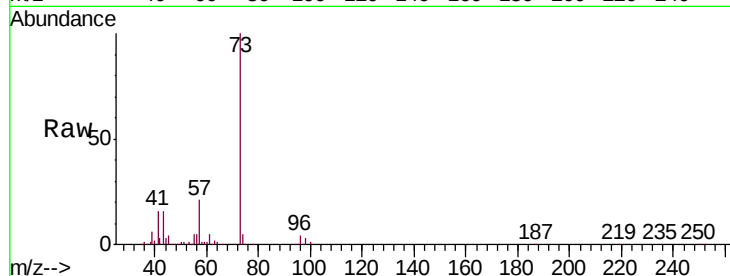


#17

Methyl tert-butyl Ether
 Concen: 4.631 ug/L
 RT: 3.00 min Scan# 594
 Delta R.T. 0.00 min
 Lab File: VU032100.D
 Acq: 17 May 2019 14:46

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

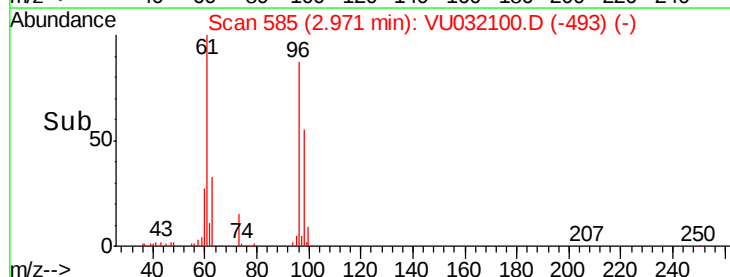
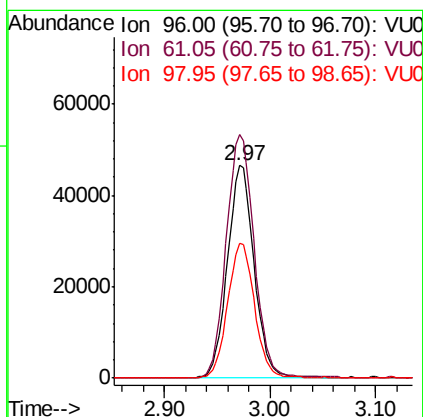
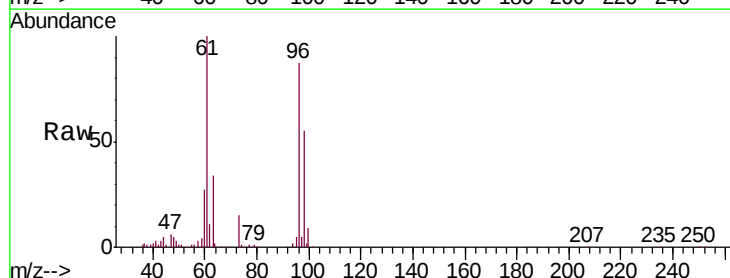
Tgt Ion:	73	Resp:	168874
Ion	Ratio	Lower	Upper
73	100		
43	15.6	13.0	19.6
57	20.4	17.9	26.9

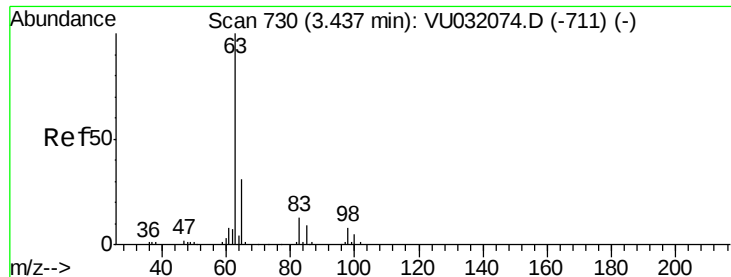


#18

trans-1,2-Dichloroethene
 Concen: 4.921 ug/L
 RT: 2.97 min Scan# 585
 Delta R.T. -0.00 min
 Lab File: VU032100.D
 Acq: 17 May 2019 14:46

Tgt Ion:	96	Resp:	81696
Ion	Ratio	Lower	Upper
96	100		
61	114.6	86.5	160.7
98	63.3	43.5	80.9





#19

1,1-Dichloroethane

Concen: 4.666 ug/L

RT: 3.43 min Scan# 729

Delta R.T. -0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

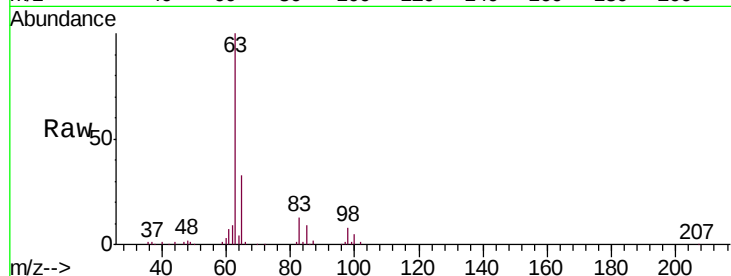
Tgt Ion: 63 Resp: 122888

Ion Ratio Lower Upper

63 100

65 32.6 23.0 42.6

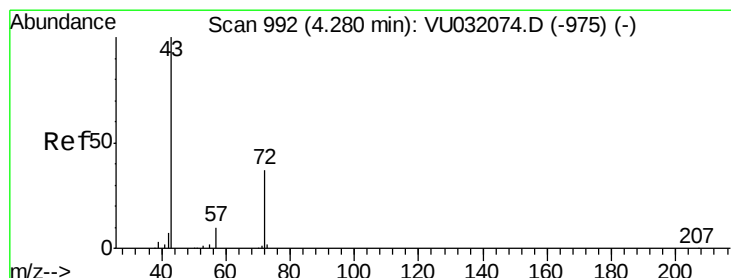
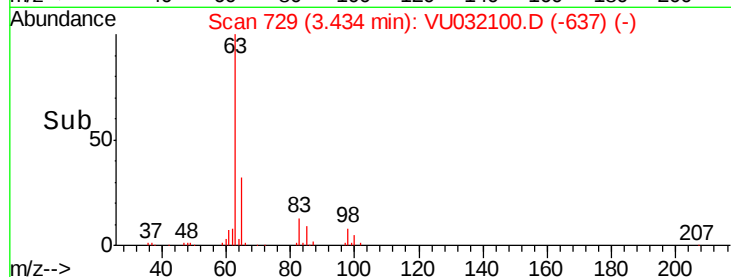
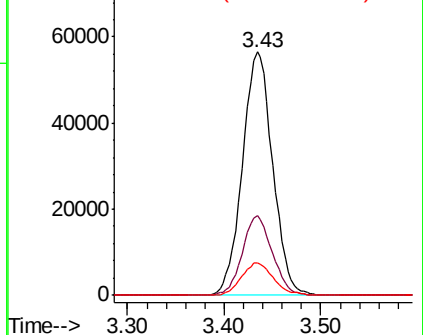
83 13.4 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU032100.D (-637) (-)

Ion 65.10 (64.80 to 65.80): VU032100.D (-637) (-)

Ion 83.05 (82.75 to 83.75): VU032100.D (-637) (-)



#21

2-Butanone

Concen: 43.519 ug/L

RT: 4.28 min Scan# 993

Delta R.T. 0.00 min

Lab File: VU032100.D

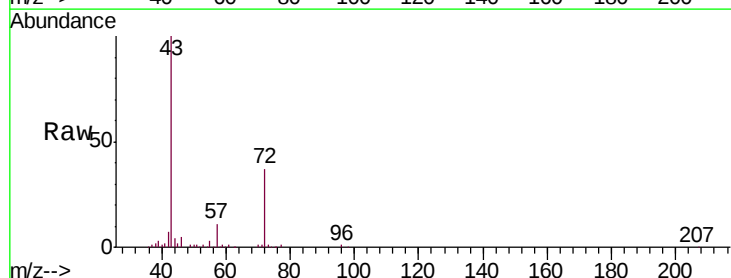
Acq: 17 May 2019 14:46

Tgt Ion: 43 Resp: 130990

Ion Ratio Lower Upper

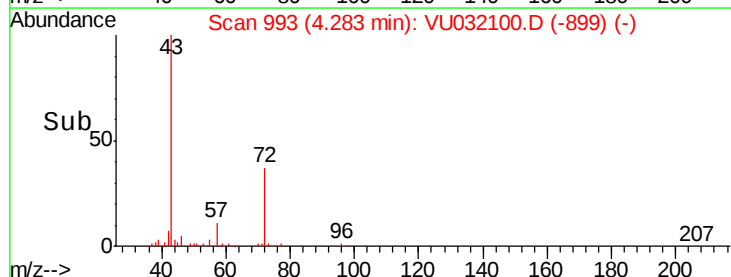
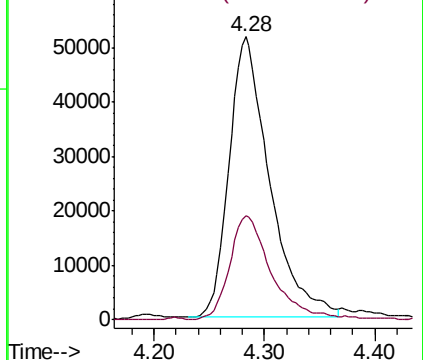
43 100

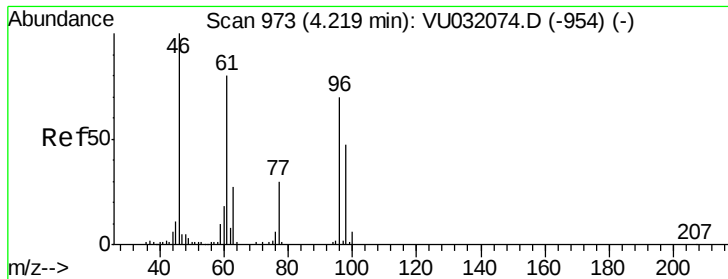
72 37.3 16.8 50.3



Abundance Ion 43.05 (42.75 to 43.75): VU032100.D (-899) (-)

Ion 72.10 (71.80 to 72.80): VU032100.D (-899) (-)



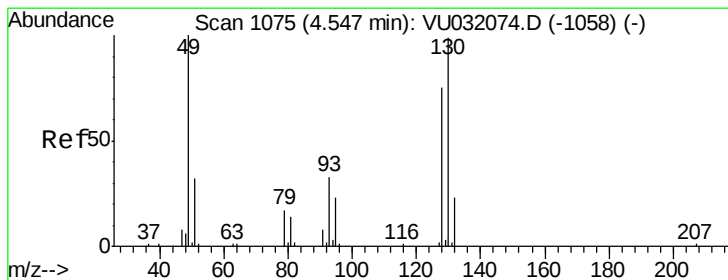
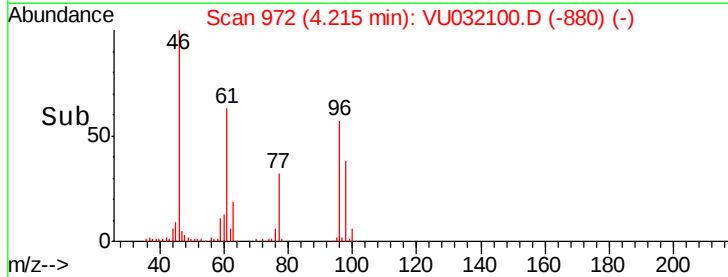
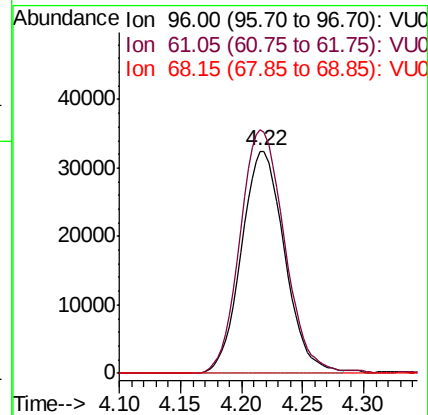
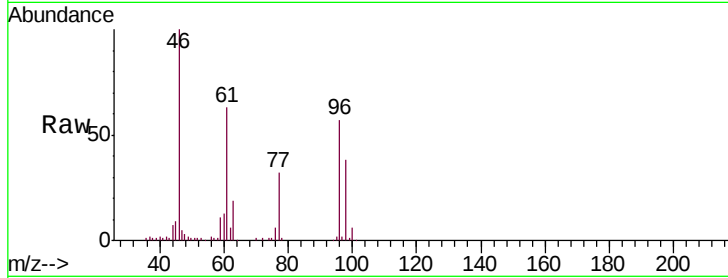


#22

cis-1,2-Dichloroethene
Concen: 4.870 ug/L
RT: 4.22 min Scan# 972
Delta R.T. -0.00 min
Lab File: VU032100.D
Acq: 17 May 2019 14:46

Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

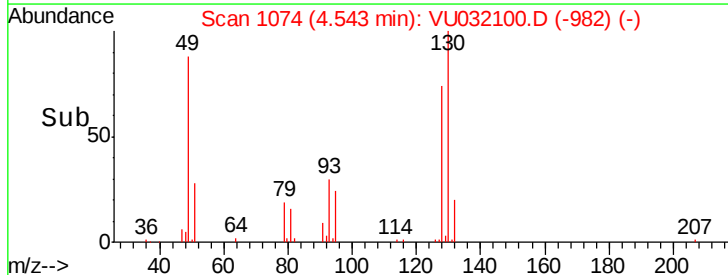
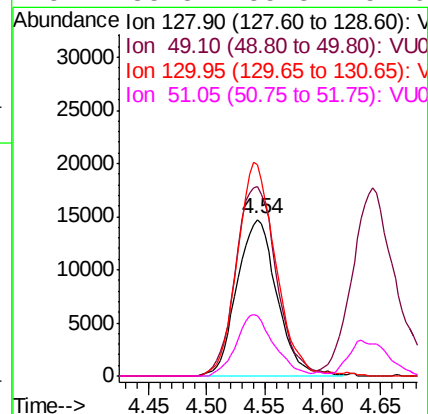
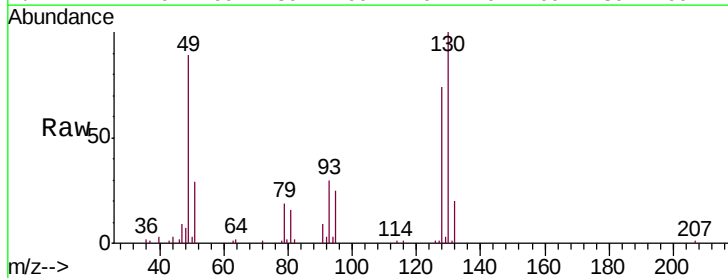
Tgt Ion: 96 Resp: 79538
Ion Ratio Lower Upper
96 100
61 109.6 85.8 159.4
68 0.0 0.0 0.0

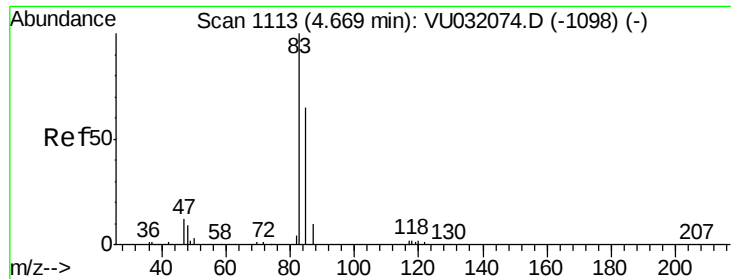


#23

Bromochloromethane
Concen: 5.042 ug/L
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VU032100.D
Acq: 17 May 2019 14:46

Tgt Ion: 128 Resp: 35341
Ion Ratio Lower Upper
128 100
49 121.0 92.2 171.2
130 135.4 90.3 167.7
51 38.8 35.3 52.9

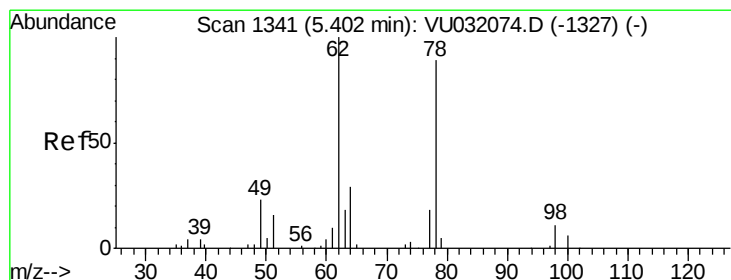
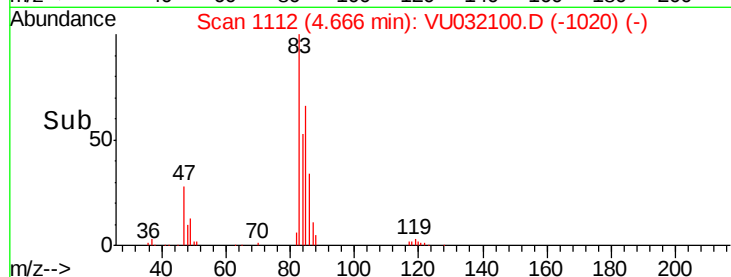
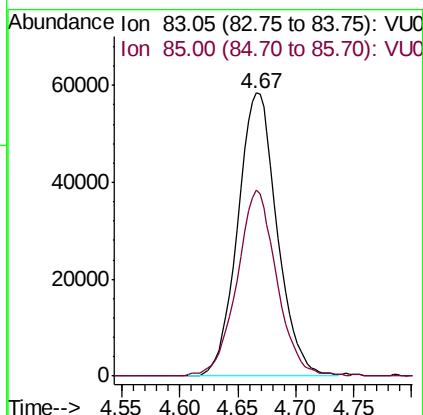
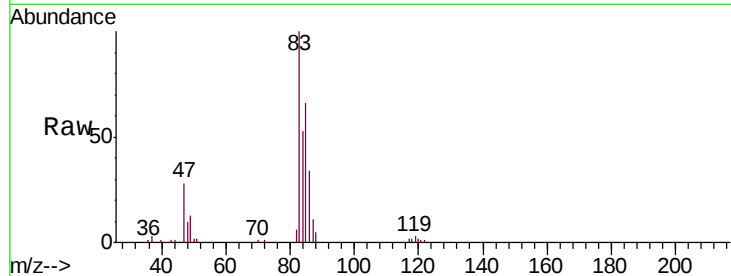




#25
Chloroform
Concen: 4.894 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU032100.D
Acq: 17 May 2019 14:46

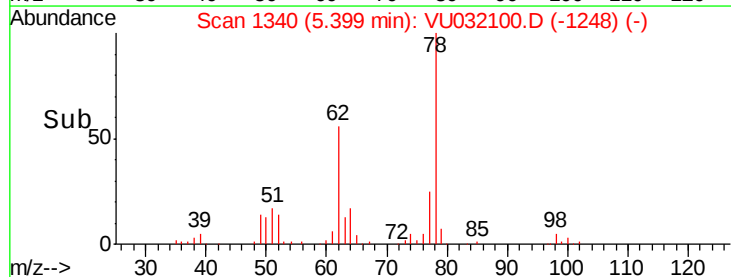
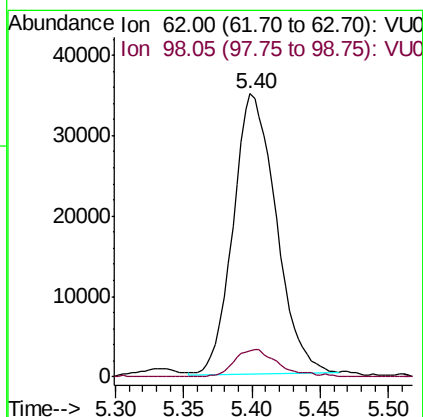
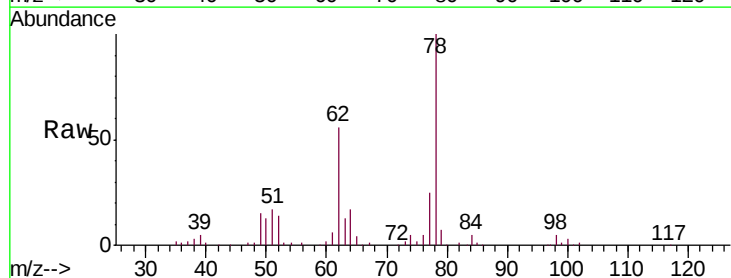
Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

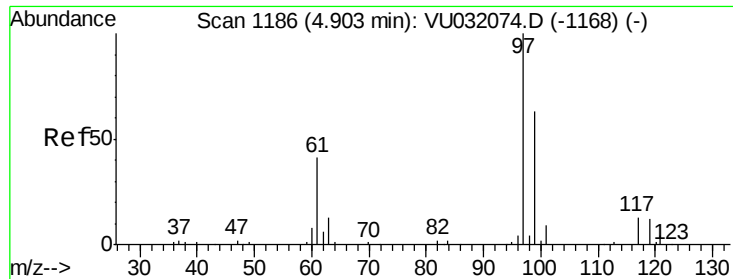
Tgt Ion: 83 Resp: 137841
Ion Ratio Lower Upper
83 100
85 65.7 44.9 83.3



#27
1,2-Dichloroethane
Concen: 4.700 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU032100.D
Acq: 17 May 2019 14:46

Tgt Ion: 62 Resp: 76448
Ion Ratio Lower Upper
62 100
98 9.3 8.0 12.0

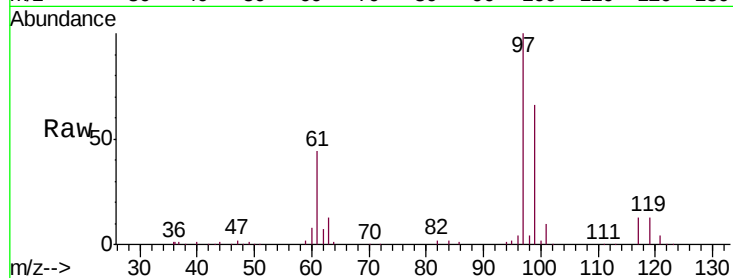




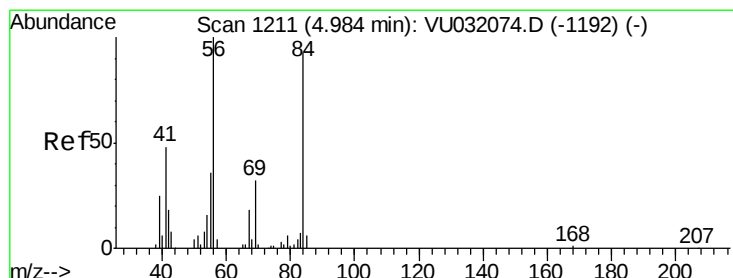
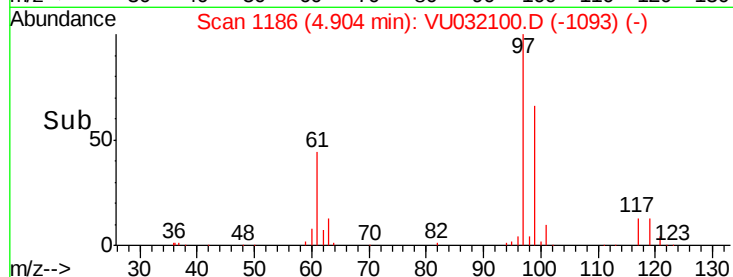
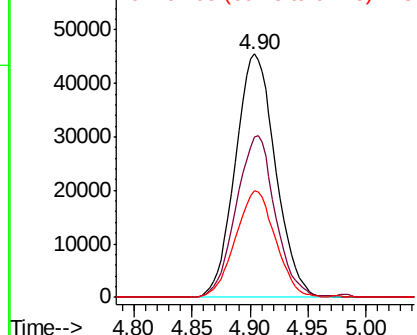
#29
 1,1,1-Trichloroethane
 Concen: 4.748 ug/L
 RT: 4.90 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: VU032100.D
 Acq: 17 May 2019 14:46

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

Tgt Ion: 97 Resp: 109545
 Ion Ratio Lower Upper
 97 100
 99 64.6 53.7 80.5
 61 43.5 34.2 51.4

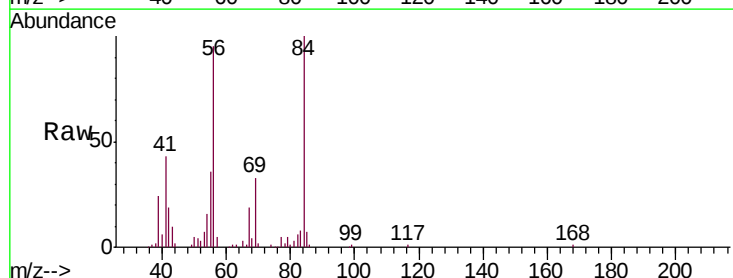


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

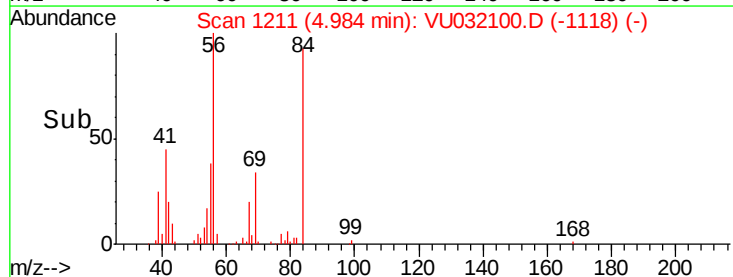
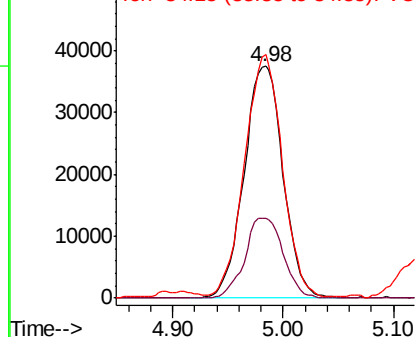


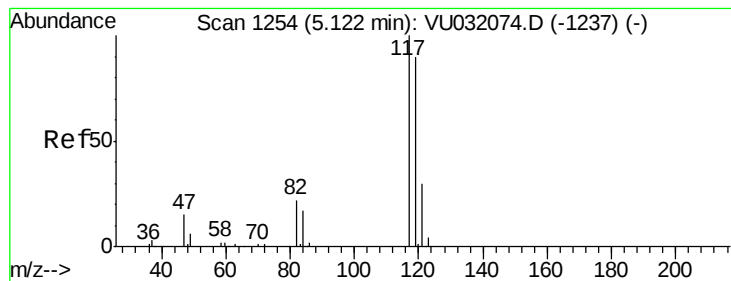
#30
 Cyclohexane
 Concen: 4.324 ug/L
 RT: 4.98 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VU032100.D
 Acq: 17 May 2019 14:46

Tgt Ion: 56 Resp: 91747
 Ion Ratio Lower Upper
 56 100
 69 33.9 26.9 40.3
 84 100.8 76.6 115.0



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





#31

Carbon tetrachloride

Concen: 4.905 ug/L

RT: 5.12 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

Instrument :

MSVOA_U

ClientSampleId :

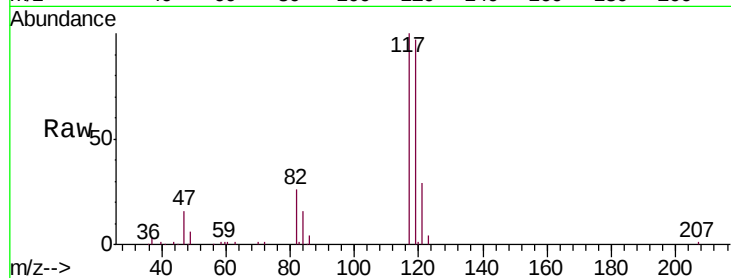
VSTD00504

Tgt Ion:117 Resp: 96218

Ion Ratio Lower Upper

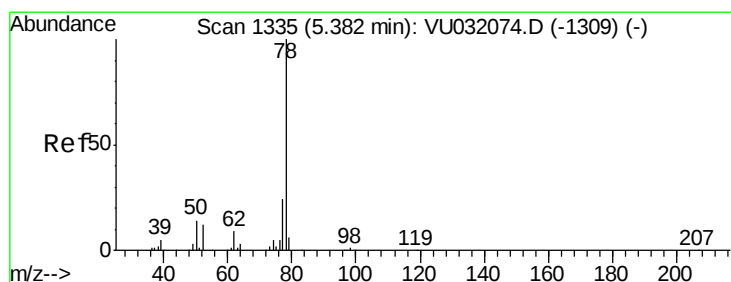
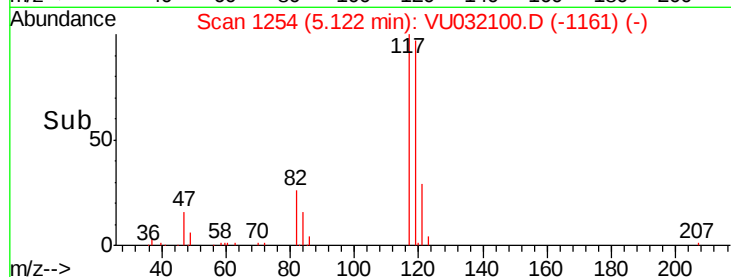
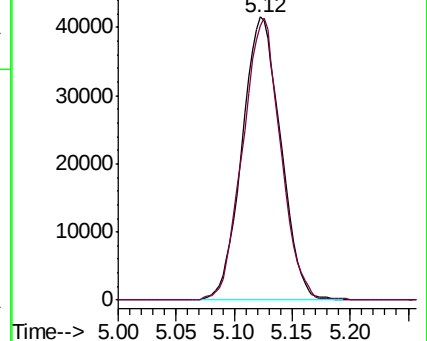
117 100

119 97.7 75.8 113.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.921 ug/L

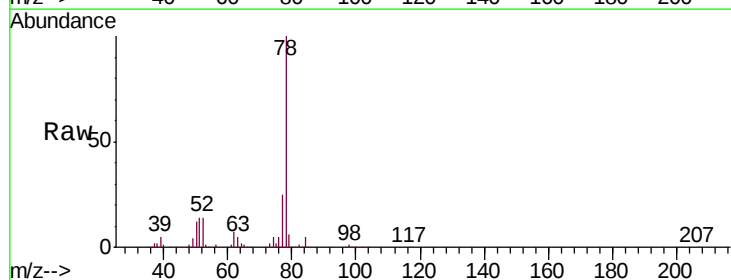
RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VU032100.D

Acq: 17 May 2019 14:46

Tgt Ion: 78 Resp: 298847



Abundance Ion 78.10 (77.80 to 78.80): VU0

