

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV011320\
 Data File : VV014287.D
 Acq On : 13 Jan 2020 19:11
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00555

Quant Time: Jan 14 15:10:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR010220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 11 00:01:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	860743	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	798871	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	372854	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	290327	4.82	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.40%
7) Chloroethane-d5	1.58	69	229360	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.60%
11) 1,1-Dichloroethene-d2	2.13	63	451678	5.09	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.80%
20) 2-Butanone-d5	3.96	46	784627	54.23	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.46%
24) Chloroform-d	4.40	84	620139	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.60%
26) 1,2-Dichloroethane-d4	5.08	65	307271	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.40%
32) Benzene-d6	5.09	84	1283501	5.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.60%
36) 1,2-Dichloropropane-d6	6.11	67	396530	5.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.40%
41) Toluene-d8	7.36	98	1169040	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.40%
43) trans-1,3-Dichloropropene-	7.66	79	167546	5.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.40%
46) 2-Hexanone-d5	8.13	63	706985	51.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.14%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	271855	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	368326	5.26	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	310774	4.789 ug/L	97
3) Chloromethane	1.25	50	318798	4.942 ug/L	100
5) Vinyl chloride	1.32	62	302454	5.021 ug/L	98
6) Bromomethane	1.53	94	172474	5.046 ug/L	100
8) Chloroethane	1.60	64	168967	4.992 ug/L	98
9) Trichlorofluoromethane	1.77	101	382540	5.379 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	208917	5.423 ug/L	97
12) 1,1-Dichloroethene	2.14	96	200685	5.219 ug/L	98
13) Acetone	2.23	43	390042	39.149 ug/L	91
14) Carbon disulfide	2.32	76	879768	5.156 ug/L	99
15) Methyl Acetate	2.47	43	118557	5.112 ug/L	96
16) Methylene chloride	2.53	84	319877	5.110 ug/L	92
17) Methyl tert-butyl Ether	2.80	73	745467	5.238 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	307691	5.323 ug/L	92
19) 1,1-Dichloroethane	3.23	63	599257	5.289 ug/L	98
21) 2-Butanone	4.04	43	796375	53.289 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	338933	5.349 ug/L #	94

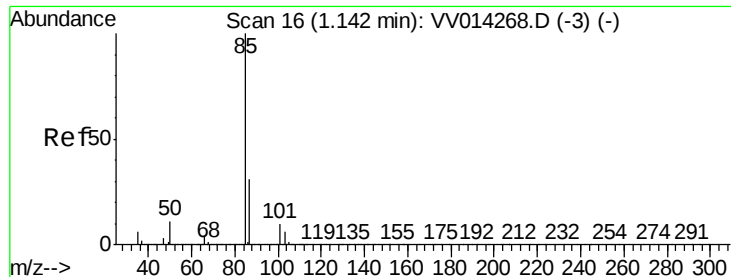
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 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	125985	5.230	ug/L	88
25) Chloroform	4.42	83	583503	5.379	ug/L	98
27) 1,2-Dichloroethane	5.18	62	346731	5.343	ug/L #	93
29) 1,1,1-Trichloroethane	4.65	97	509627	5.359	ug/L	98
30) Cyclohexane	4.72	56	599101	5.706	ug/L	95
31) Carbon tetrachloride	4.87	117	425501	5.225	ug/L	99
33) Benzene	5.14	78	1305525	5.306	ug/L	100
34) Trichloroethene	5.96	95	339948	5.377	ug/L	99
35) Methylcyclohexane	6.17	83	584590	5.655	ug/L	96
37) 1,2-Dichloropropane	6.22	63	321575	5.178	ug/L	99
38) Bromodichloromethane	6.55	83	415499	5.189	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	518164	5.154	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	2029993	51.857	ug/L	99
42) Toluene	7.43	91	1376146	5.299	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	401828	5.205	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	210721	5.312	ug/L	99
47) Tetrachloroethene	8.02	164	226089	5.234	ug/L	99
48) 2-Hexanone	8.18	43	1400035	51.707	ug/L	98
49) Dibromochloromethane	8.29	129	251536	5.015	ug/L	99
50) 1,2-Dibromoethane	8.39	107	196700	5.120	ug/L #	95
51) Chlorobenzene	8.92	112	835723	5.233	ug/L	98
52) Ethylbenzene	9.05	91	1577243	5.429	ug/L	98
53) m,p-xylene	9.18	106	581666	5.427	ug/L	98
54) o-xylene	9.58	106	563312	5.344	ug/L	99
55) Styrene	9.60	104	941785	5.275	ug/L	98
56) Isopropylbenzene	9.97	105	1501644	5.462	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	252528	5.162	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	188994	5.108	ug/L	100
61) Bromoform	9.77	173	128668	5.091	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	623237	5.347	ug/L	100
63) 1,4-Dichlorobenzene	11.31	146	603593	5.208	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	559384	5.314	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	46362	4.792	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	441314	5.206	ug/L	100
68) 1,2,4-trichlorobenzene	13.30	180	376700	5.067	ug/L	99
69) Naphthalene	13.55	128	725716	4.804	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	337216	5.154	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.789 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

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ClientSampleId :

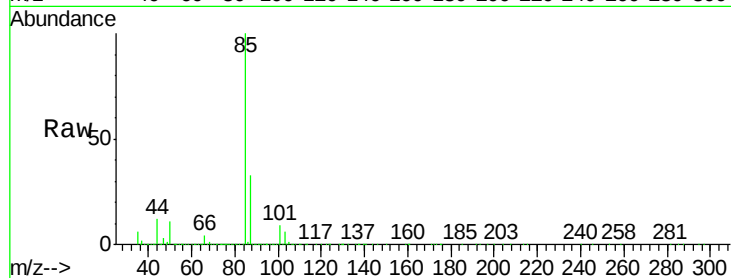
VSTD00555

Tgt Ion: 85 Resp: 310774

Ion Ratio Lower Upper

85 100

87 33.0 25.1 37.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

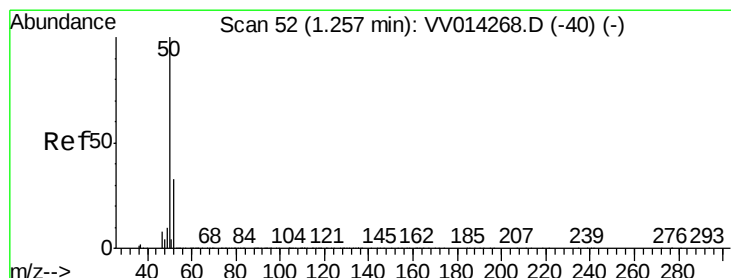
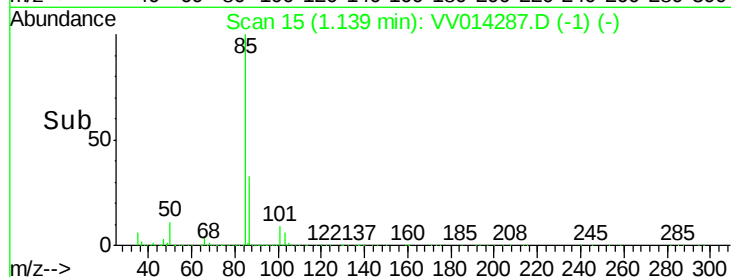
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 4.942 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV014287.D

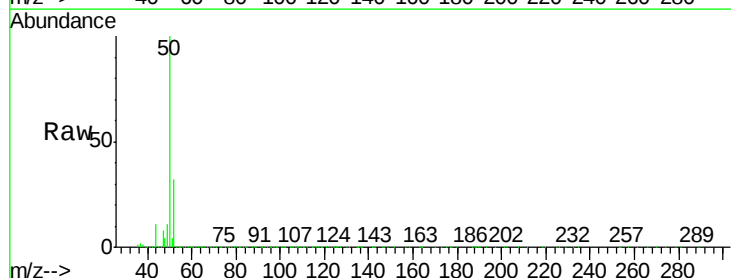
Acq: 13 Jan 2020 19:11

Tgt Ion: 50 Resp: 318798

Ion Ratio Lower Upper

50 100

52 31.8 22.3 41.3



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.25

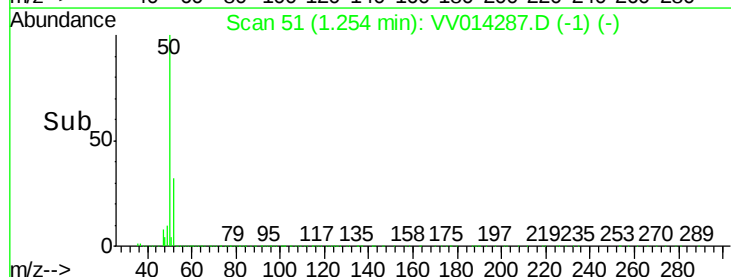
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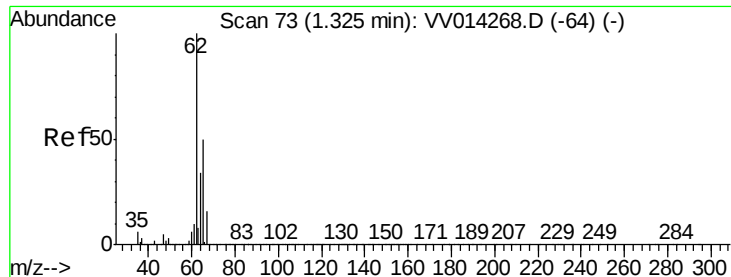
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 5.021 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV014287.D

Acq: 13 Jan 2020 19:11

Instrument :

MSVOA_V

ClientSampleId :

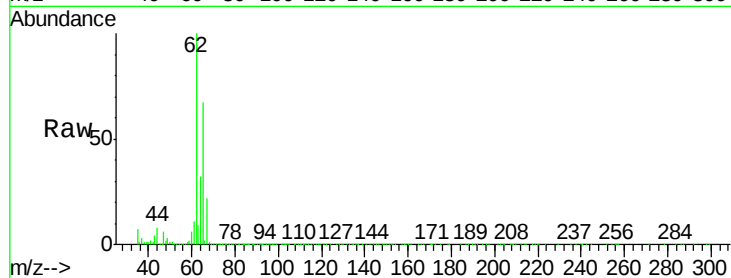
VSTD00555

Tgt Ion: 62 Resp: 302454

Ion Ratio Lower Upper

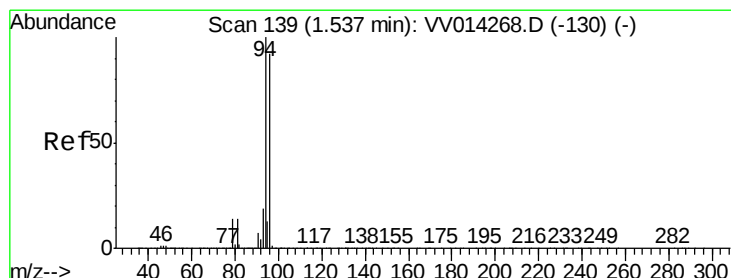
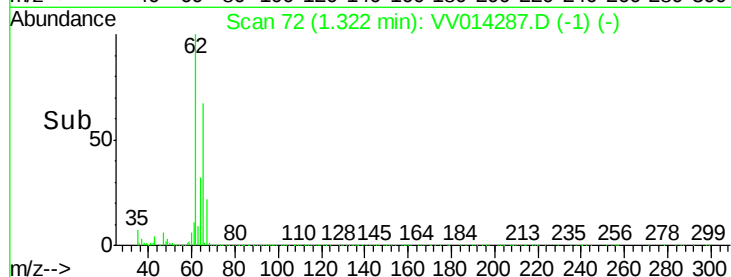
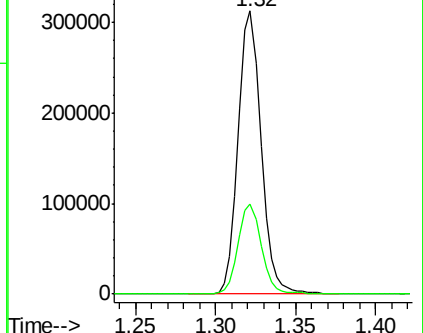
62 100

64 31.8 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 5.046 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV014287.D

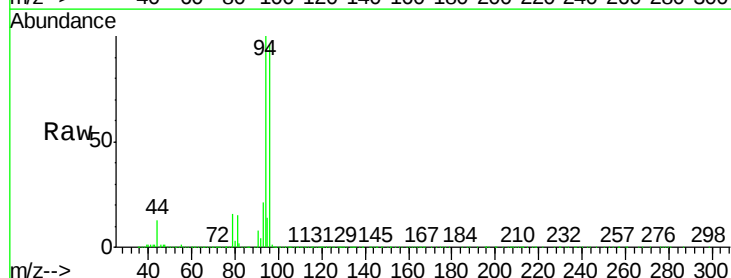
Acq: 13 Jan 2020 19:11

Tgt Ion: 94 Resp: 172474

Ion Ratio Lower Upper

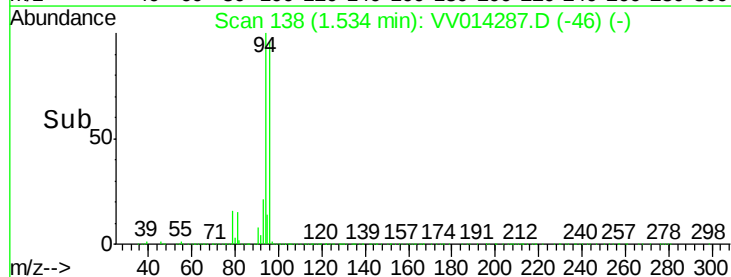
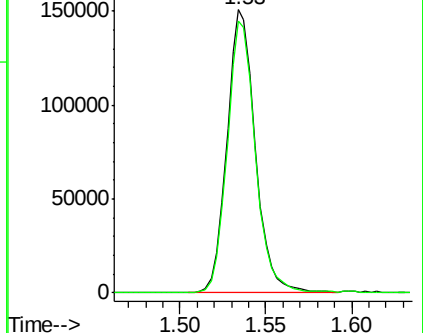
94 100

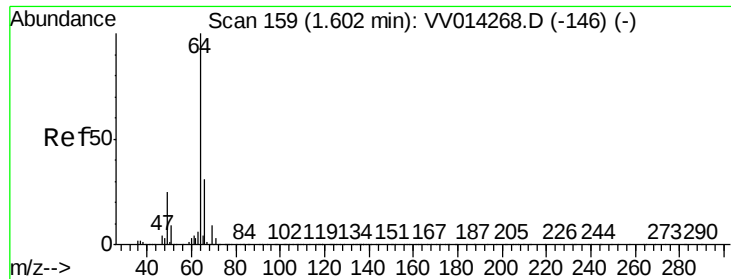
96 95.9 66.9 124.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 4.992 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV014287.D

Acq: 13 Jan 2020 19:11

Instrument :

MSVOA_V

ClientSampleId :

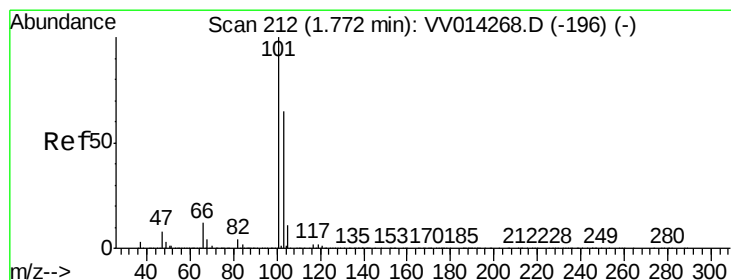
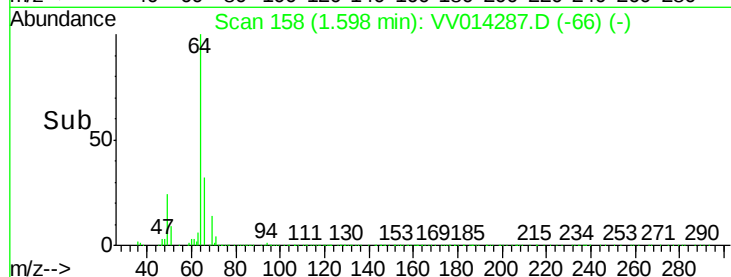
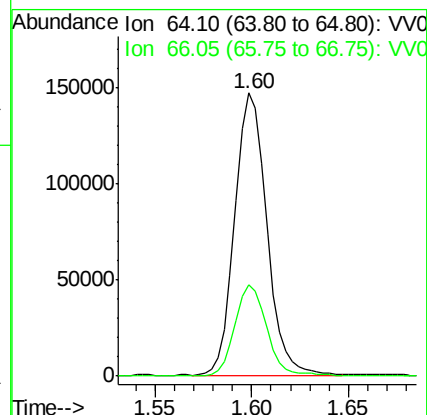
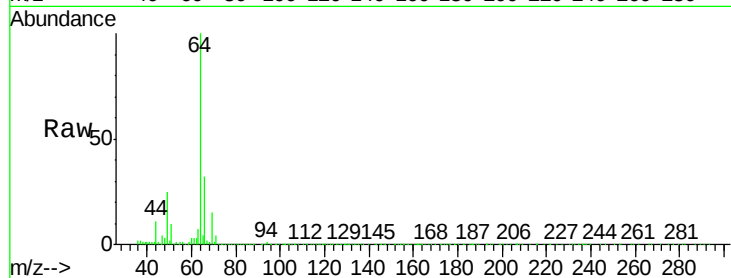
VSTD00555

Tgt Ion: 64 Resp: 168967

Ion Ratio Lower Upper

64 100

66 32.1 21.8 40.6



#9

Trichlorofluoromethane

Concen: 5.379 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV014287.D

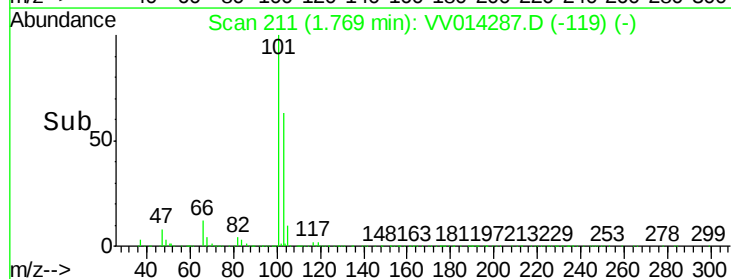
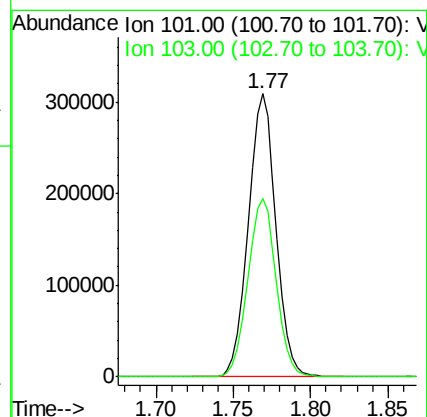
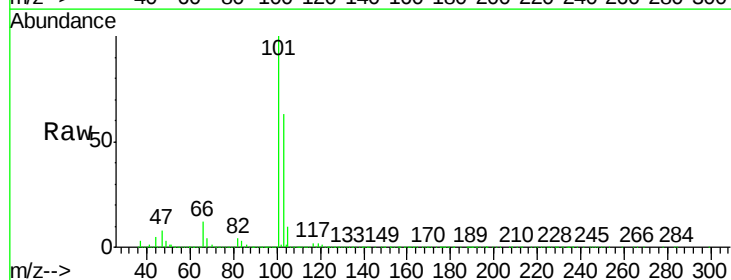
Acq: 13 Jan 2020 19:11

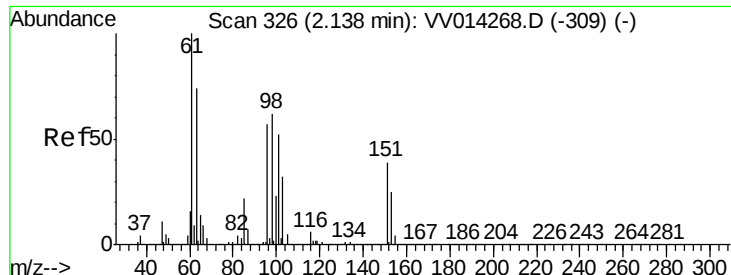
Tgt Ion: 101 Resp: 382540

Ion Ratio Lower Upper

101 100

103 64.5 52.6 78.8





#10

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

Concen: 5.423 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV014287.D

Acq: 13 Jan 2020 19:11

Instrument :

MSVOA_V

ClientSampleId :

VSTD00555

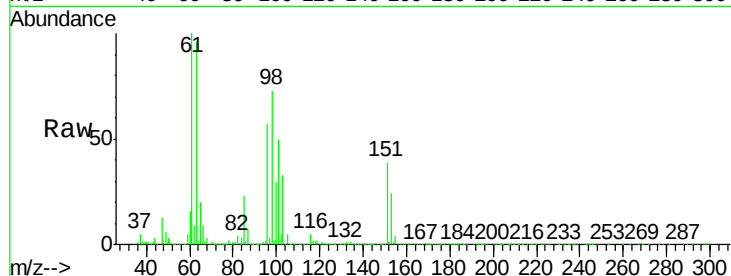
Tgt Ion: 101 Resp: 208917

Ion Ratio Lower Upper

101 100

85 43.8 34.9 52.3

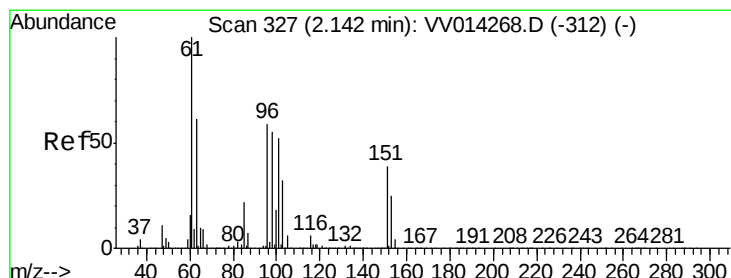
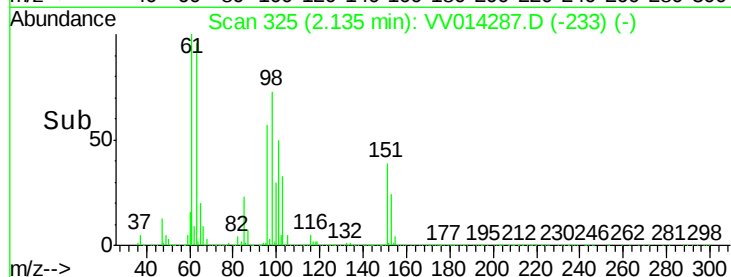
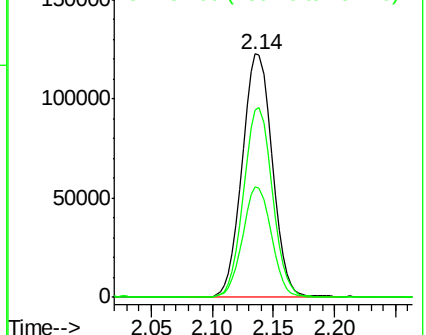
151 74.5 62.5 93.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.219 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014287.D

Acq: 13 Jan 2020 19:11

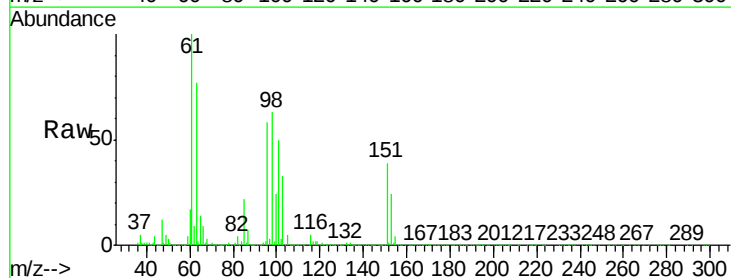
Tgt Ion: 96 Resp: 200685

Ion Ratio Lower Upper

96 100

61 171.3 121.5 225.7

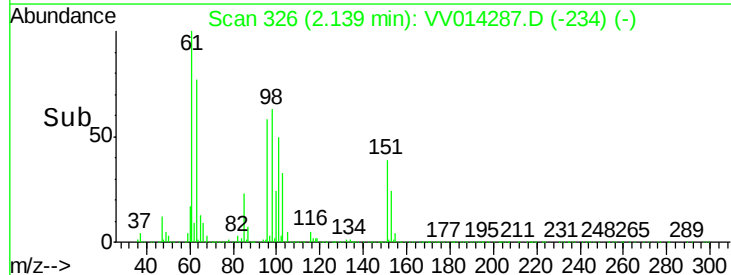
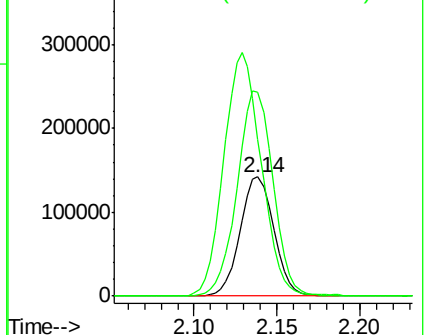
63 131.7 90.3 167.7

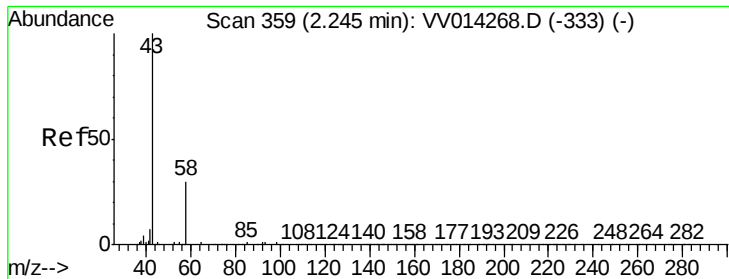


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 39.149 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.02 min

Lab File: VV014287.D

Acq: 13 Jan 2020 19:11

Instrument :

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ClientSampleId :

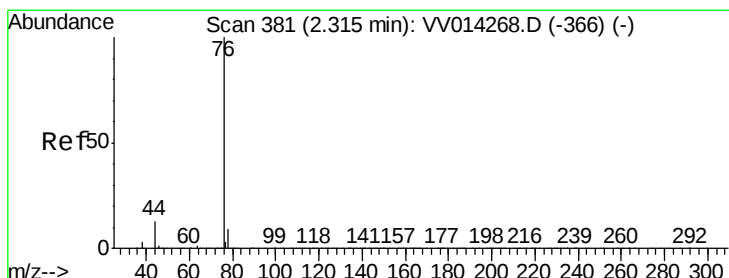
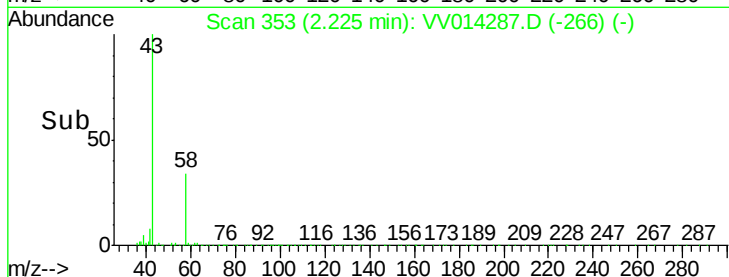
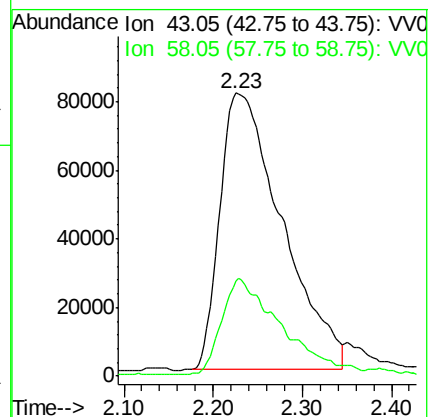
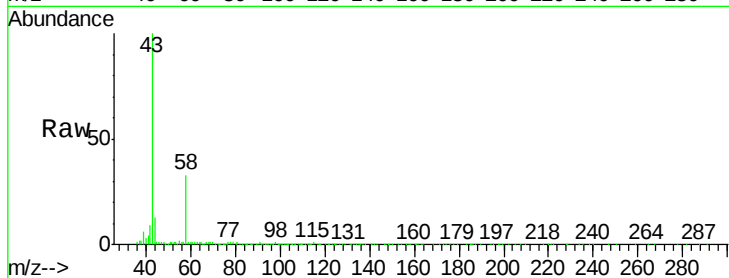
VSTD00555

Tgt Ion: 43 Resp: 390042

Ion Ratio Lower Upper

43 100

58 27.7 0.0 66.0



#14

Carbon disulfide

Concen: 5.156 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV014287.D

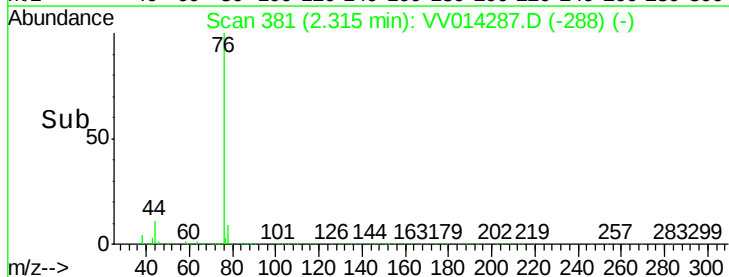
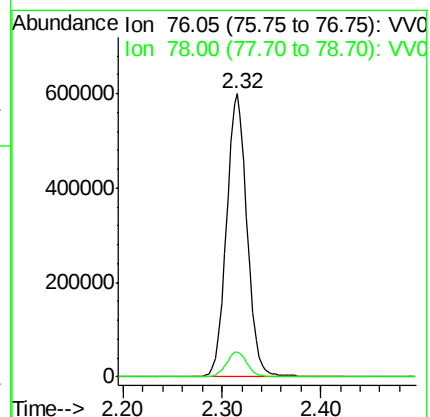
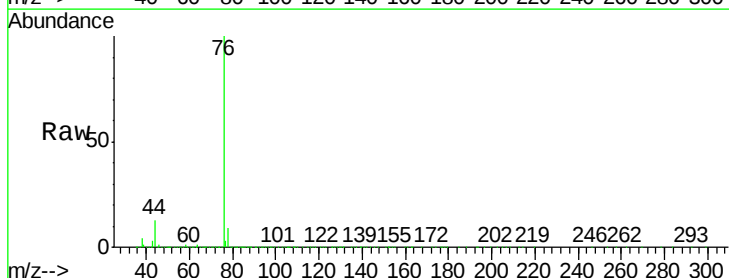
Acq: 13 Jan 2020 19:11

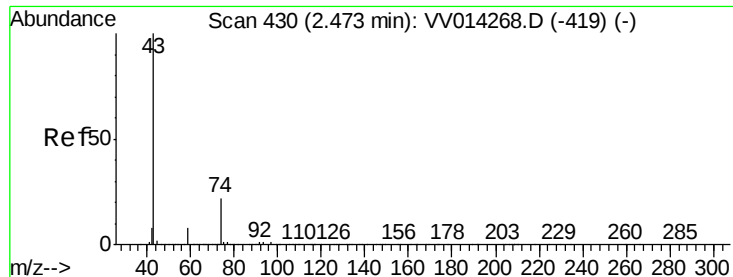
Tgt Ion: 76 Resp: 879768

Ion Ratio Lower Upper

76 100

78 8.9 7.5 11.3

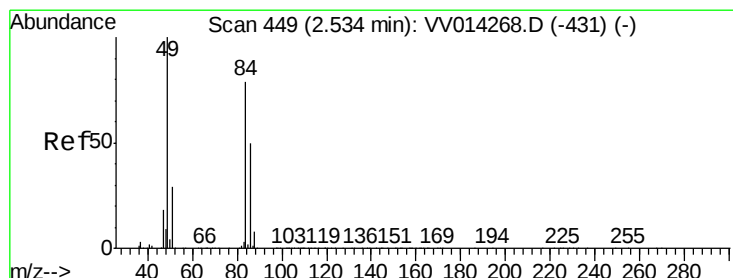
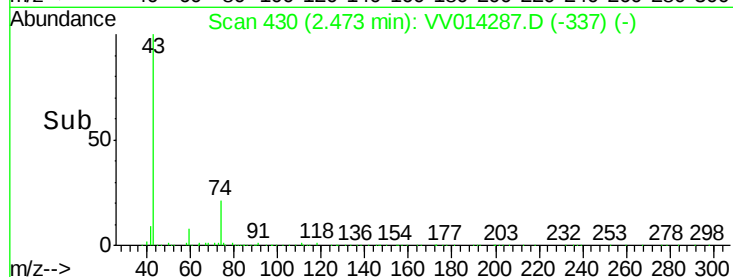
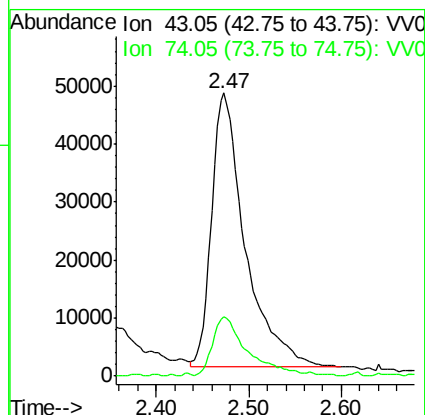
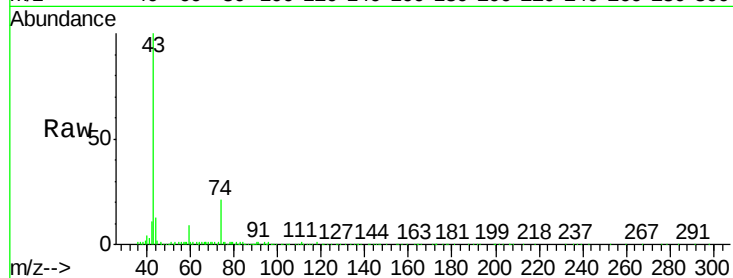




#15
Methyl Acetate
Concen: 5.112 ug/L
RT: 2.47 min Scan# 430
Delta R.T. 0.00 min
Lab File: VV014287.D
Acq: 13 Jan 2020 19:11

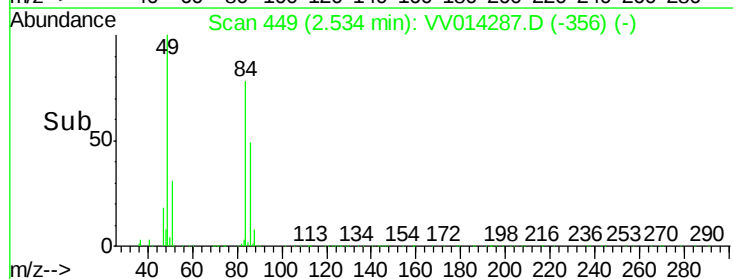
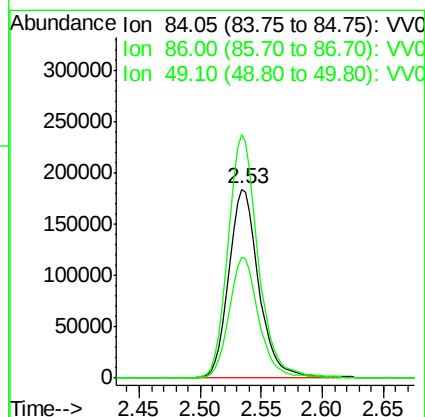
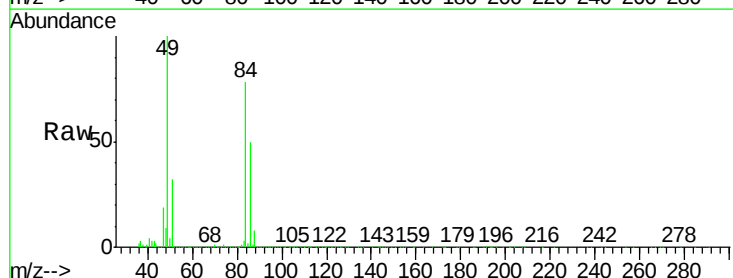
Instrument :
MSVOA_V
ClientSampled :
VSTD00555

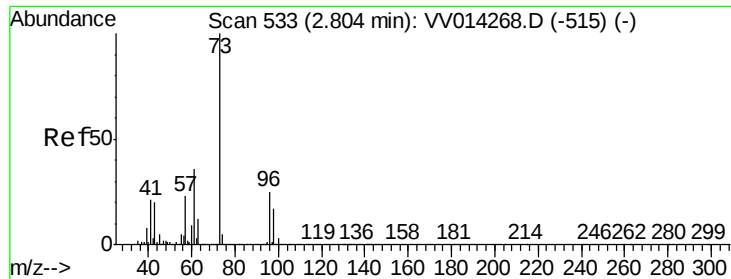
Tgt Ion: 43 Resp: 118557
Ion Ratio Lower Upper
43 100
74 21.3 18.6 28.0



#16
Methylene chloride
Concen: 5.110 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV014287.D
Acq: 13 Jan 2020 19:11

Tgt Ion: 84 Resp: 319877
Ion Ratio Lower Upper
84 100
86 63.7 43.1 80.1
49 128.7 82.1 152.5

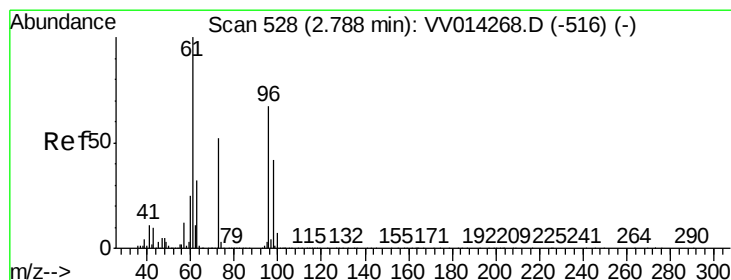
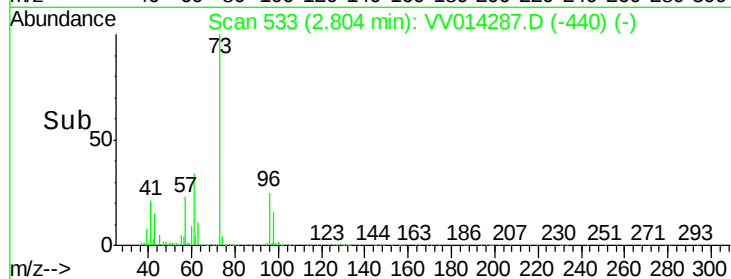
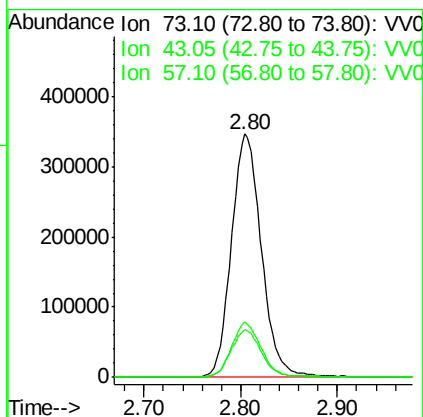
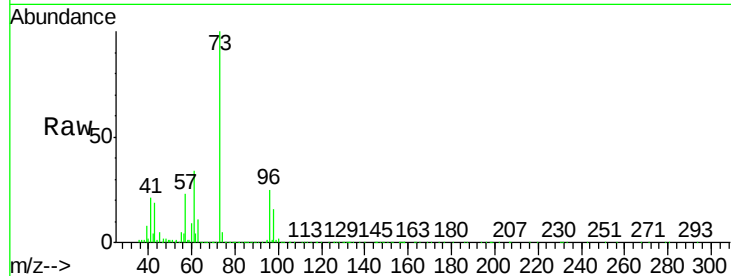




#17
Methyl tert-butyl Ether
Concen: 5.238 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV014287.D
Acq: 13 Jan 2020 19:11

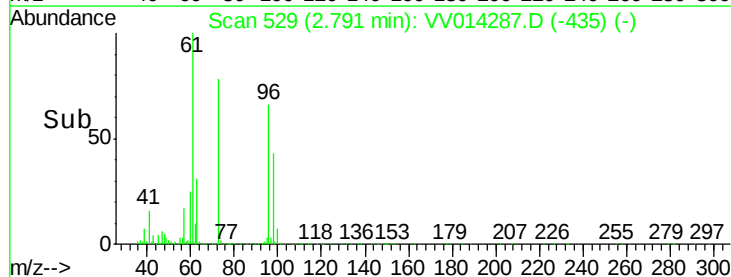
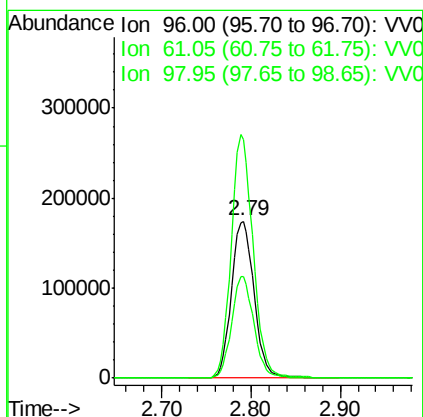
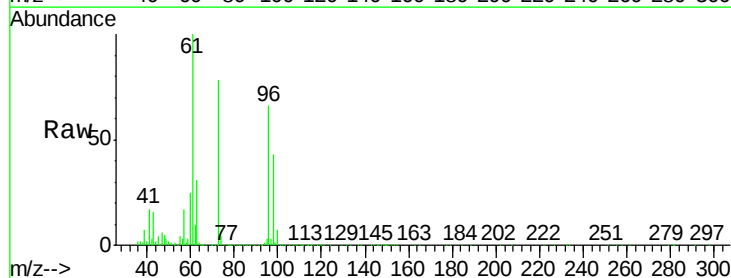
Instrument :
MSVOA_V
ClientSampleId :
VSTD00555

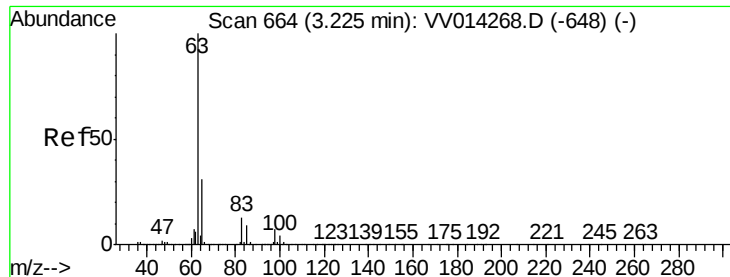
Tgt Ion:	73	Resp:	745467
Ion	Ratio	Lower	Upper
73	100		
43	19.3	14.7	22.1
57	22.2	17.9	26.9



#18
trans-1,2-Dichloroethene
Concen: 5.323 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV014287.D
Acq: 13 Jan 2020 19:11

Tgt Ion:	96	Resp:	307691
Ion	Ratio	Lower	Upper
96	100		
61	152.6	99.2	184.2
98	65.0	43.1	80.1

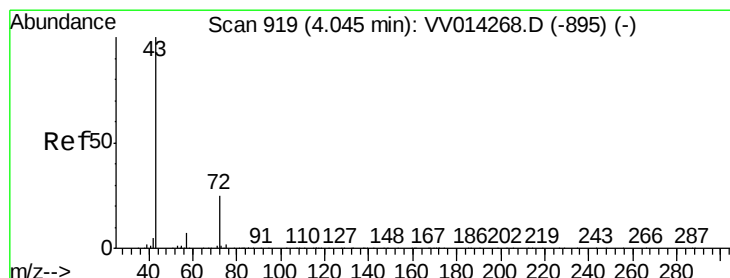
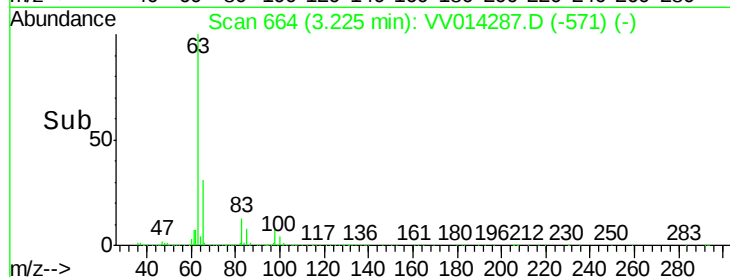
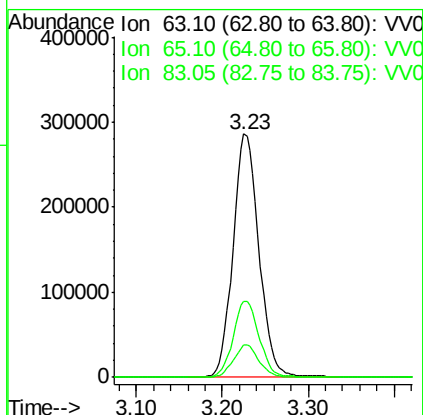
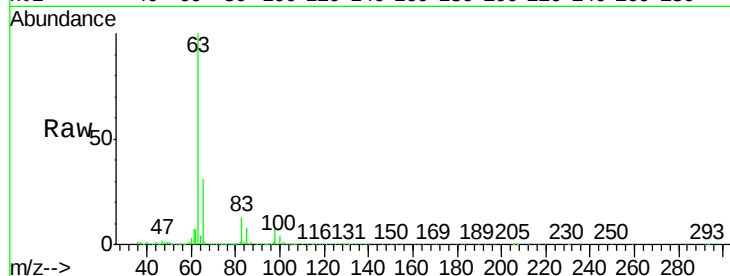




#19
 1,1-Dichloroethane
 Concen: 5.289 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV014287.D
 Acq: 13 Jan 2020 19:11

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00555

Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.2	22.7	42.3
83	13.1	10.0	18.6



#21
 2-Butanone
 Concen: 53.289 ug/L
 RT: 4.04 min Scan# 918
 Delta R.T. -0.00 min
 Lab File: VV014287.D
 Acq: 13 Jan 2020 19:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	12.4	37.2

