

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX110419\
 Data File : VX013326.D
 Acq On : 04 Nov 2019 16:22
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Nov 05 00:33:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	734334	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1088465	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	984550	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	511419	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	405418	46.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.20%	
35) Dibromofluoromethane	5.48	113	333601	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
50) Toluene-d8	8.71	98	1274222	49.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.02%	
62) 4-Bromofluorobenzene	11.13	95	473798	51.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.02%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.19	85	484168	57.223	ug/l 99
3) Chloromethane	1.31	50	487092	53.087	ug/l 100
4) Vinyl Chloride	1.40	62	582318	55.746	ug/l 99
5) Bromomethane	1.62	94	335475	46.085	ug/l 100
6) Chloroethane	1.71	64	308299	51.670	ug/l 100
7) Trichlorofluoromethane	1.92	101	639995	51.858	ug/l 98
8) Diethyl Ether	2.17	74	283200	51.893	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	387697	56.363	ug/l 100
10) Methyl Iodide	2.50	142	420491	49.375	ug/l 98
11) Tert butyl alcohol	3.03	59	494089	215.479	ug/l 99
12) 1,1-Dichloroethene	2.36	96	381125	56.581	ug/l 99
13) Acrolein	2.28	56	353312	284.303	ug/l 98
14) Allyl chloride	2.72	41	691260	56.480	ug/l 98
15) Acrylonitrile	3.12	53	1164132	271.791	ug/l 99
16) Acetone	2.42	43	1225776	282.483	ug/l 99
17) Carbon Disulfide	2.56	76	1016682	56.391	ug/l 99
18) Methyl Acetate	2.76	43	650942	54.337	ug/l 100
19) Methyl tert-butyl Ether	3.17	73	1295177	57.649	ug/l 99
20) Methylene Chloride	2.84	84	419670	52.345	ug/l 98
21) trans-1,2-Dichloroethene	3.15	96	408469	55.694	ug/l 96
22) Diisopropyl ether	3.84	45	1342883	56.833	ug/l 100
23) Vinyl Acetate	3.79	43	5712008	282.508	ug/l 100
24) 1,1-Dichloroethane	3.68	63	727518	55.040	ug/l 98
25) 2-Butanone	4.65	43	1750059	274.916	ug/l 99
26) 2,2-Dichloropropane	4.56	77	638118	60.685	ug/l 99
27) cis-1,2-Dichloroethene	4.58	96	466678	56.802	ug/l 100
28) Bromochloromethane	5.00	49	204081	54.378	ug/l 98
29) Tetrahydrofuran	5.11	42	1045510	266.517	ug/l 99
30) Chloroform	5.19	83	721686	55.293	ug/l 96
31) Cyclohexane	5.56	56	660045	55.494	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	628822	55.982	ug/l 99
36) 1,1-Dichloropropene	5.78	75	560072	59.980	ug/l 100
37) Ethyl Acetate	4.81	43	634867	55.023	ug/l 100
38) Carbon Tetrachloride	5.77	117	547117	59.918	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.45	83	668268	57.436	ug/l	99
40) Benzene	6.12	78	1649189	56.699	ug/l	99
41) Methacrylonitrile	5.01	41	360261	55.706	ug/l	98
42) 1,2-Dichloroethane	6.17	62	593631	56.581	ug/l	100
43) Isopropyl Acetate	6.43	43	1047933	58.325	ug/l	99
44) Trichloroethene	7.20	130	457667	57.162	ug/l	100
45) 1,2-Dichloropropane	7.50	63	428738	57.851	ug/l	99
46) Dibromomethane	7.65	93	283475	56.021	ug/l	98
47) Bromodichloromethane	7.89	83	570485	59.787	ug/l	95
48) Methyl methacrylate	7.76	41	524794	58.514	ug/l	100
49) 1,4-Dioxane	7.73	88	184488	898.212	ug/l	98
51) 4-Methyl-2-Pentanone	8.63	43	3246144	275.378	ug/l	100
52) Toluene	8.78	92	1051610	58.333	ug/l	99
53) t-1,3-Dichloropropene	9.03	75	649307	62.230	ug/l	100
54) cis-1,3-Dichloropropene	8.43	75	712291	61.028	ug/l	98
55) 1,1,2-Trichloroethane	9.21	97	423116	56.625	ug/l	98
56) Ethyl methacrylate	9.17	69	702778	54.932	ug/l	98
57) 1,3-Dichloropropane	9.36	76	714314	56.314	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.30	63	1415528	277.056	ug/l	99
59) 2-Hexanone	9.48	43	2598387	285.240	ug/l	100
60) Dibromochloromethane	9.57	129	463362	60.633	ug/l	99
61) 1,2-Dibromoethane	9.67	107	457623	57.674	ug/l	98
64) Tetrachloroethene	9.33	164	403974	57.317	ug/l	98
65) Chlorobenzene	10.13	112	1139299	57.157	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.21	131	428516	58.550	ug/l	99
67) Ethyl Benzene	10.24	91	2032664	59.086	ug/l	99
68) m/p-Xylenes	10.35	106	1546723	118.884	ug/l	100
69) o-Xylene	10.70	106	744275	58.431	ug/l	99
70) Styrene	10.71	104	1303222	61.206	ug/l	99
71) Bromoform	10.85	173	366492	53.751	ug/l #	99
73) Isopropylbenzene	11.01	105	1988196	58.635	ug/l	100
74) N-amyl acetate	10.89	43	940504	59.814	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.26	83	674821	54.553	ug/l	99
76) 1,2,3-Trichloropropane	11.29	75	789224	75.978	ug/l	81
77) Bromobenzene	11.25	156	522951	57.852	ug/l	96
78) n-propylbenzene	11.35	91	2283433	60.454	ug/l	99
79) 2-Chlorotoluene	11.42	91	1333338	58.590	ug/l	99
80) 1,3,5-Trimethylbenzene	11.50	105	1681714	59.544	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.07	75	240543	59.605	ug/l	97
82) 4-Chlorotoluene	11.51	91	1578917	59.270	ug/l	100
83) tert-Butylbenzene	11.76	119	1678749	59.046	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	1684836	59.467	ug/l	100
85) sec-Butylbenzene	11.94	105	1901501	58.193	ug/l	99
86) p-Isopropyltoluene	12.06	119	1784323	59.302	ug/l	100
87) 1,3-Dichlorobenzene	12.02	146	930769	57.766	ug/l	98
88) 1,4-Dichlorobenzene	12.09	146	945136	57.572	ug/l	99
89) n-Butylbenzene	12.38	91	1596874	60.823	ug/l	100
90) Hexachloroethane	12.59	117	317599	59.243	ug/l	100
91) 1,2-Dichlorobenzene	12.38	146	933027	57.929	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.99	75	154494	51.263	ug/l	98

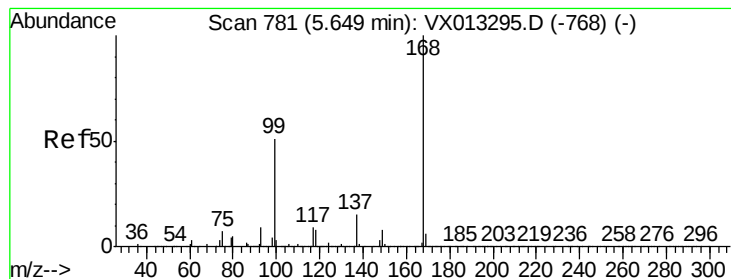
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.64	180	684183	60.898	ug/l	98
94) Hexachlorobutadiene	13.77	225	266295	48.448	ug/l	99
95) Naphthalene	13.83	128	2119056	60.116	ug/l	99
96) 1,2,3-Trichlorobenzene	14.01	180	657905	58.391	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.01 min

Lab File: VX013326.D

Acq: 04 Nov 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

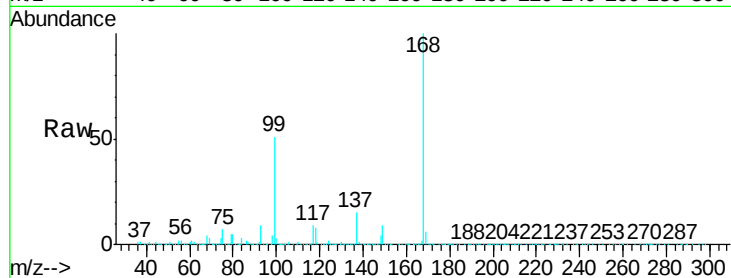
VSTDCCC050EC

Tgt Ion:168 Resp: 734334

Ion Ratio Lower Upper

168 100

99 50.6 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

250000

200000

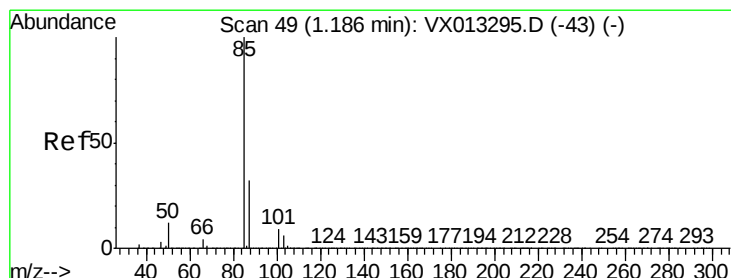
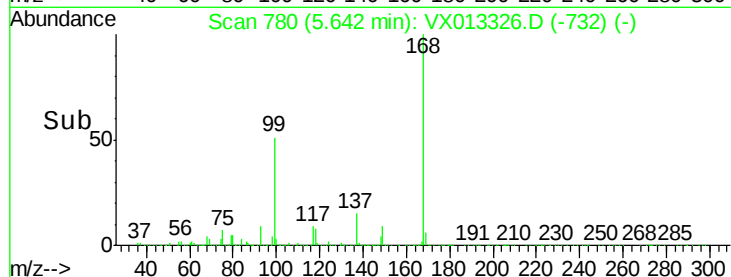
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 57.223 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.00 min

Lab File: VX013326.D

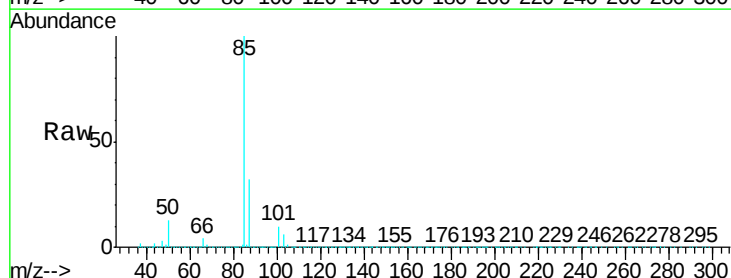
Acq: 04 Nov 2019 16:22

Tgt Ion: 85 Resp: 484168

Ion Ratio Lower Upper

85 100

87 32.3 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

600000

500000

400000

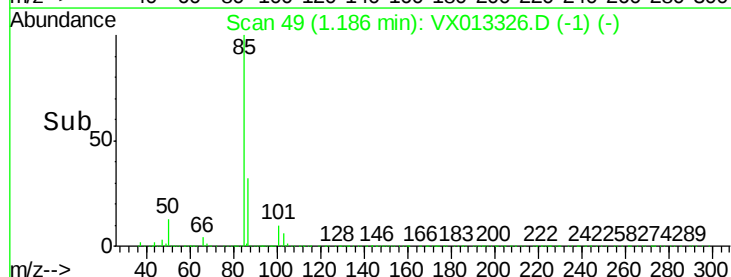
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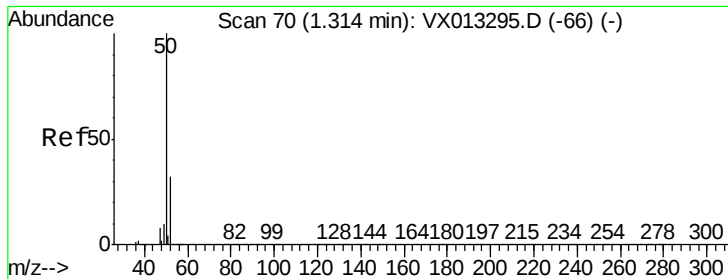
200000

100000

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Time-->





#3

Chloromethane

Concen: 53.087 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX013326.D

Acq: 04 Nov 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

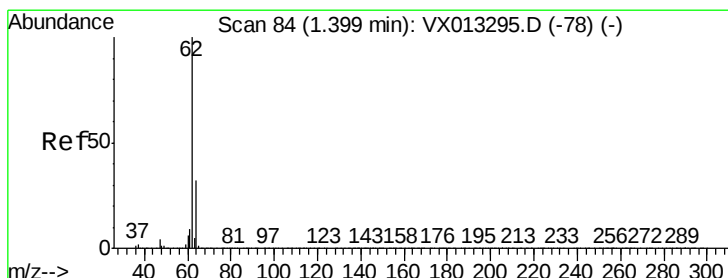
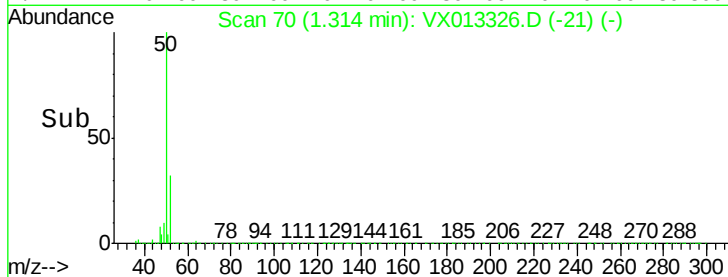
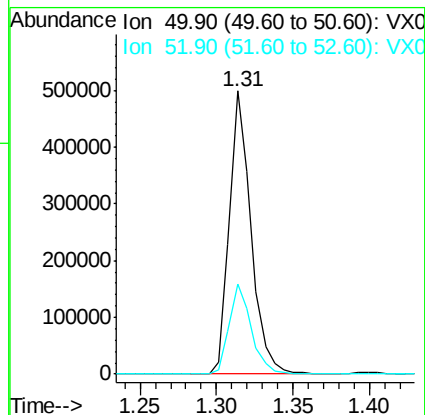
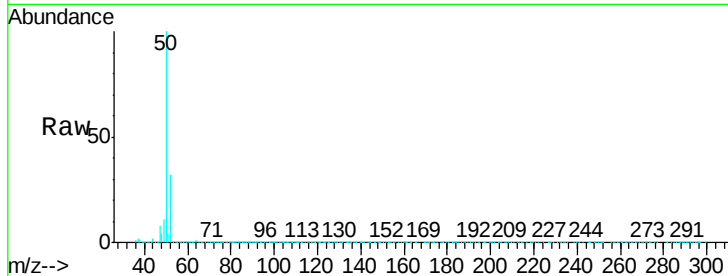
VSTDCCC050EC

Tgt Ion: 50 Resp: 487092

Ion Ratio Lower Upper

50 100

52 31.7 25.5 38.3



#4

Vinyl Chloride

Concen: 55.746 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013326.D

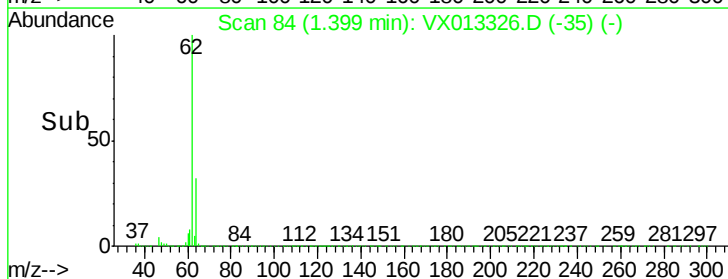
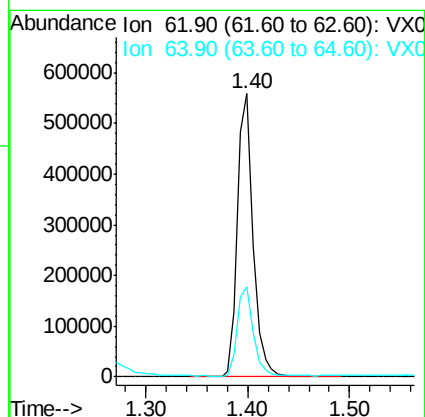
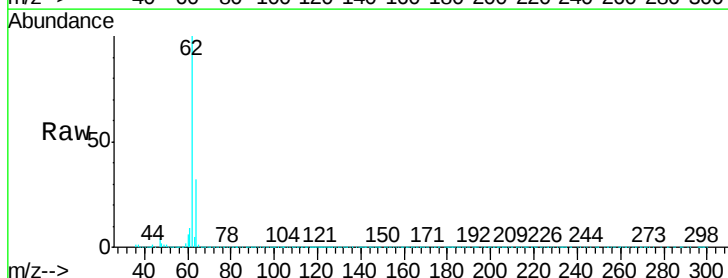
Acq: 04 Nov 2019 16:22

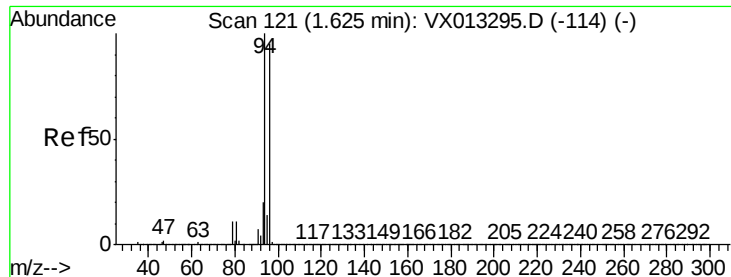
Tgt Ion: 62 Resp: 582318

Ion Ratio Lower Upper

62 100

64 31.5 25.6 38.4





#5

Bromomethane

Concen: 46.085 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX013326.D

Acq: 04 Nov 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

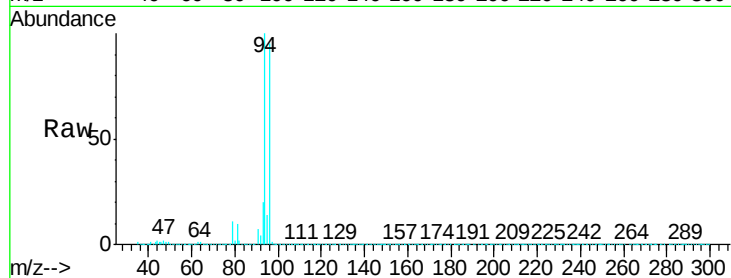
VSTDCCC050EC

Tgt Ion: 94 Resp: 335475

Ion Ratio Lower Upper

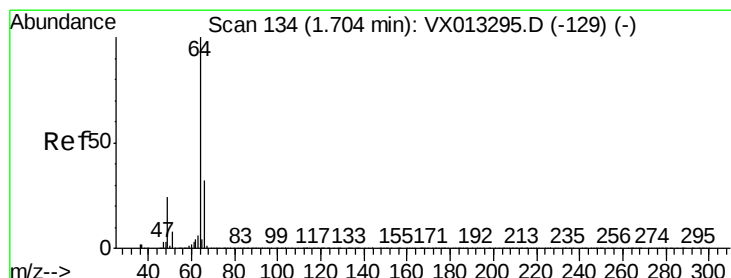
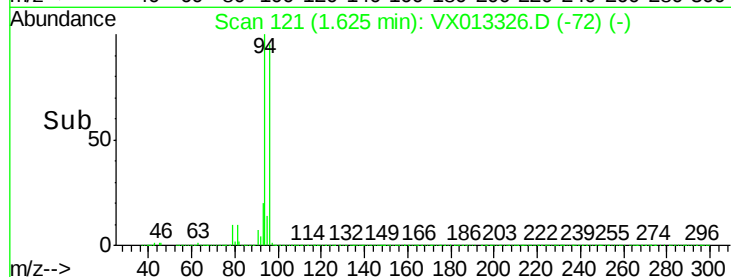
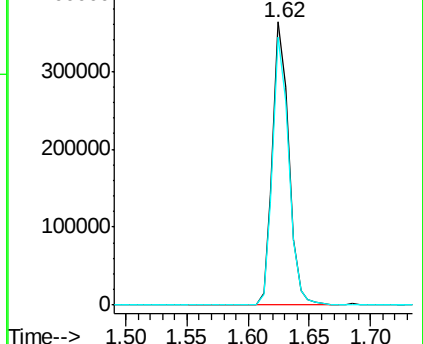
94 100

96 94.6 75.8 113.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 51.670 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX013326.D

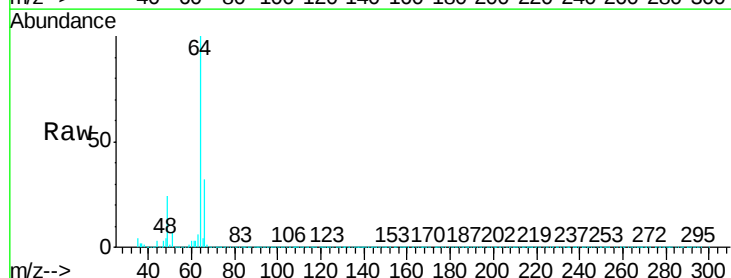
Acq: 04 Nov 2019 16:22

Tgt Ion: 64 Resp: 308299

Ion Ratio Lower Upper

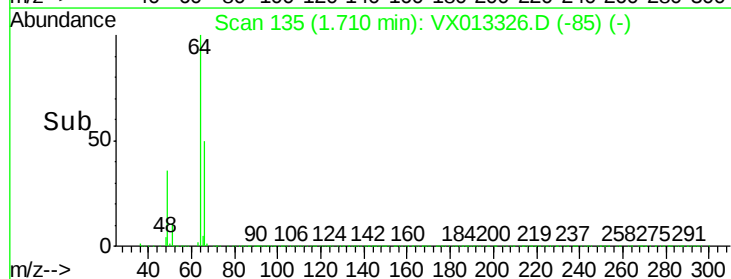
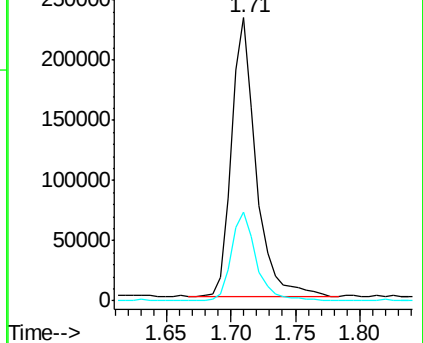
64 100

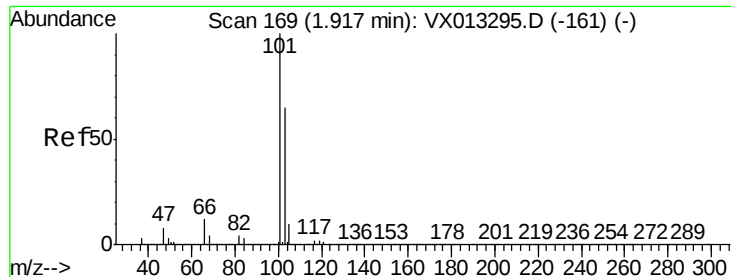
66 31.8 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



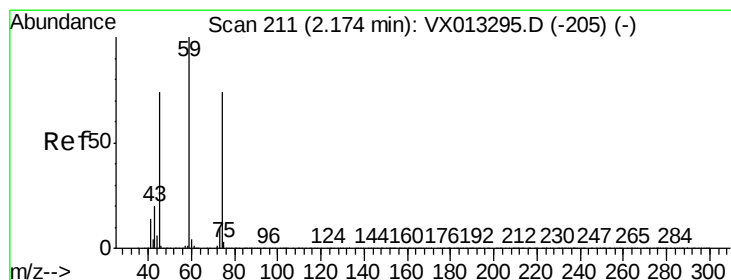
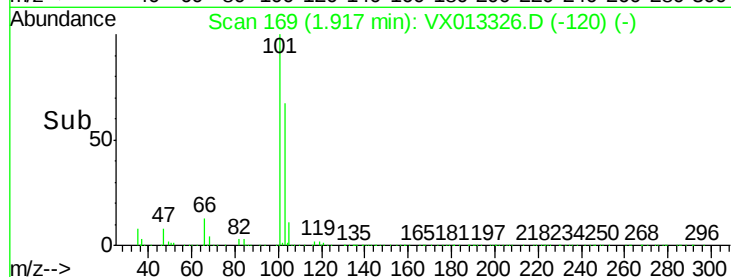
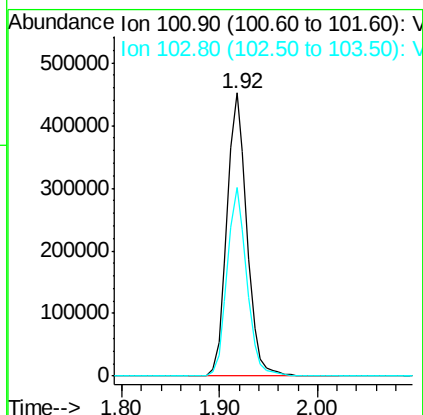
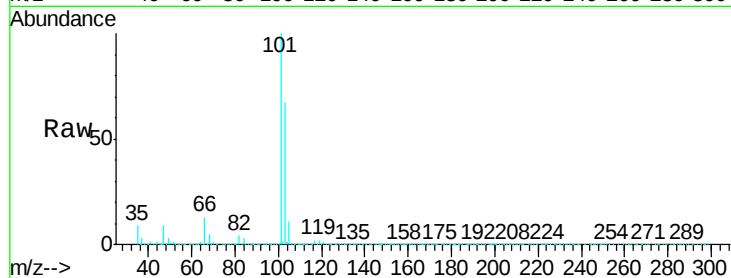


#7

Trichlorofluoromethane
Concen: 51.858 ug/l
RT: 1.92 min Scan# 169
Delta R.T. -0.00 min
Lab File: VX013326.D
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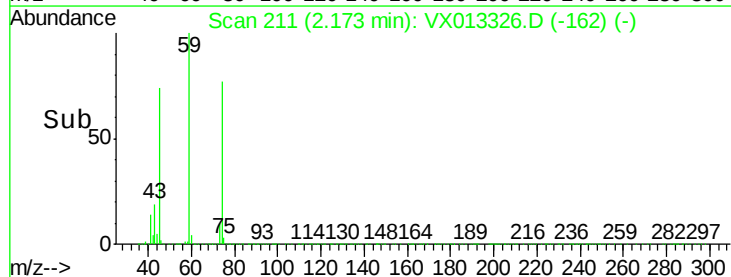
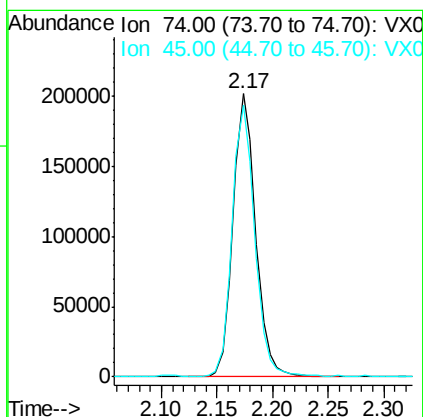
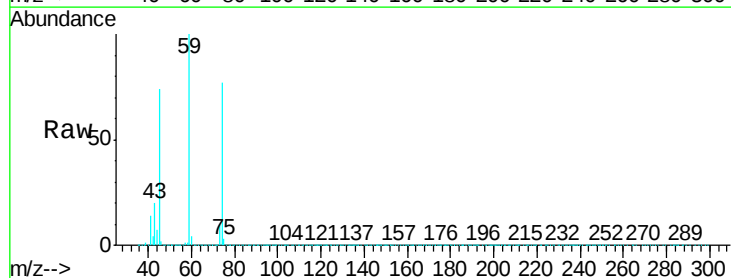
Tgt Ion:101 Resp: 639995
Ion Ratio Lower Upper
101 100
103 66.6 52.3 78.5

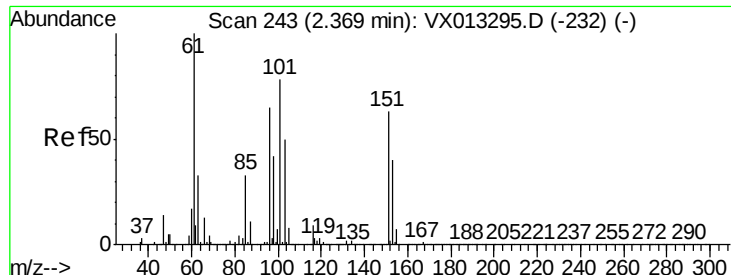


#8

Diethyl Ether
Concen: 51.893 ug/l
RT: 2.17 min Scan# 211
Delta R.T. -0.00 min
Lab File: VX013326.D
Acq: 04 Nov 2019 16:22

Tgt Ion: 74 Resp: 283200
Ion Ratio Lower Upper
74 100
45 95.6 48.5 145.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 56.363 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.00 min

Lab File: VX013326.D

Acq: 04 Nov 2019 16:22

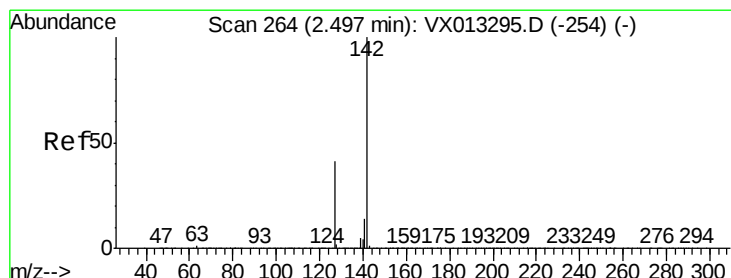
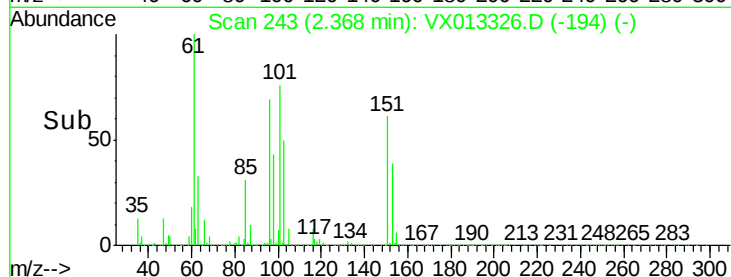
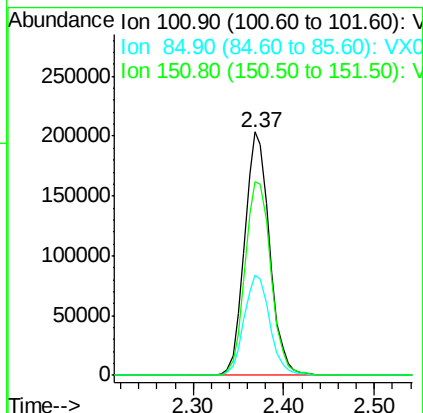
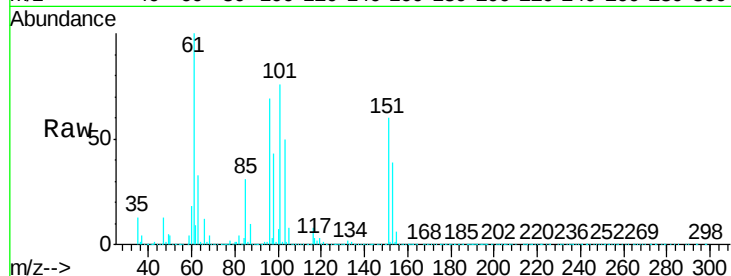
Instrument :

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ClientSampleId :

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Tgt Ion:	101	Resp:	387697
Ion	Ratio	Lower	Upper
101	100		
85	42.2	34.4	51.6
151	82.9	66.4	99.6



#10

Methyl Iodide

Concen: 49.375 ug/l

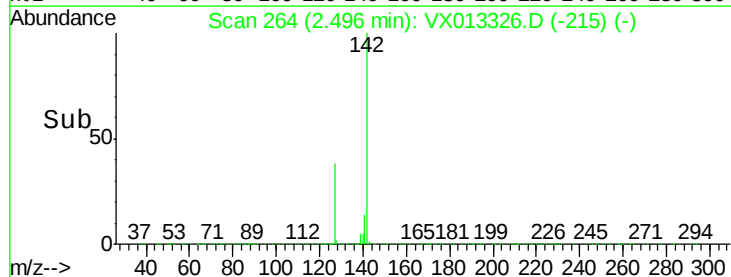
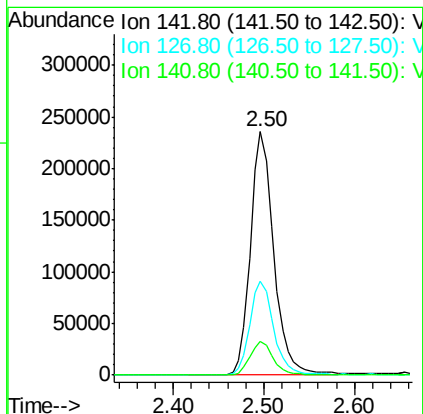
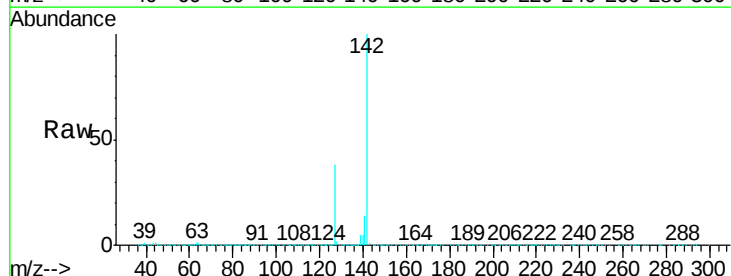
RT: 2.50 min Scan# 264

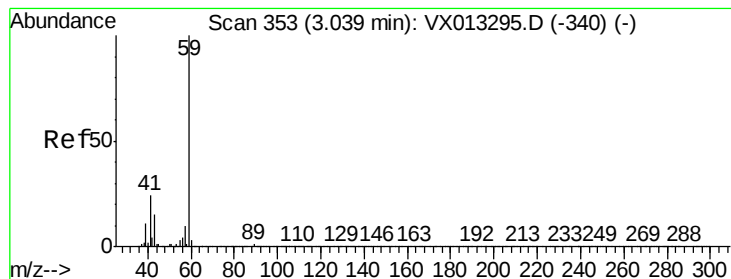
Delta R.T. -0.00 min

Lab File: VX013326.D

Acq: 04 Nov 2019 16:22

Tgt Ion:	142	Resp:	420491
Ion	Ratio	Lower	Upper
142	100		
127	39.2	32.6	49.0
141	14.1	11.6	17.4



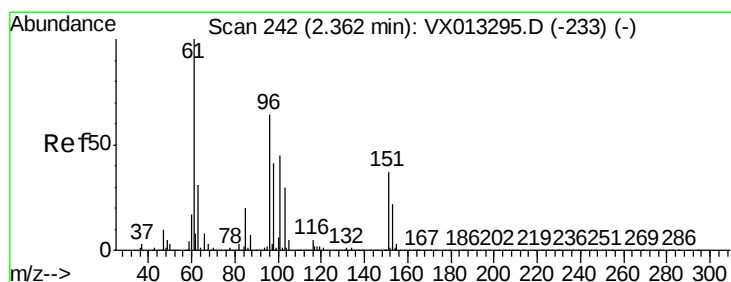
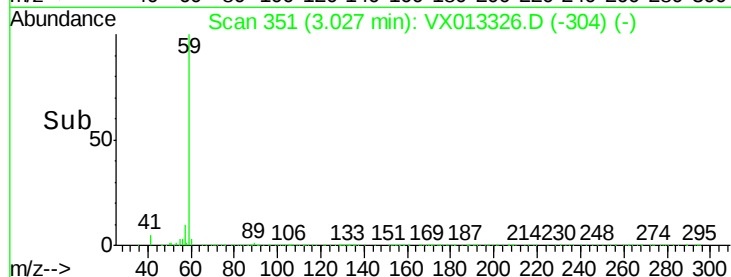
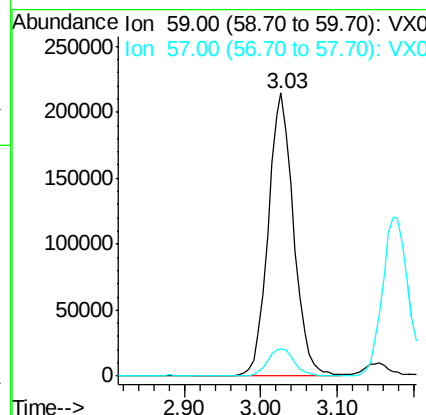
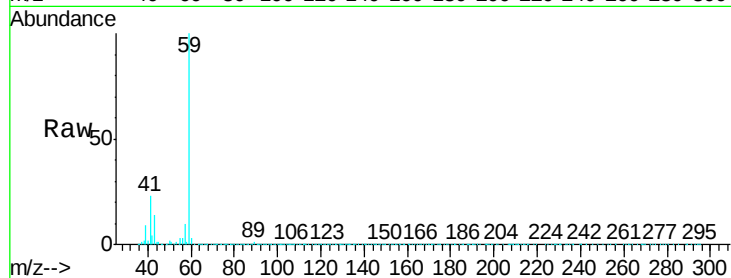


#11

Tert butyl alcohol
Concen: 215.479 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX013326.D
Acq: 04 Nov 2019 16:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

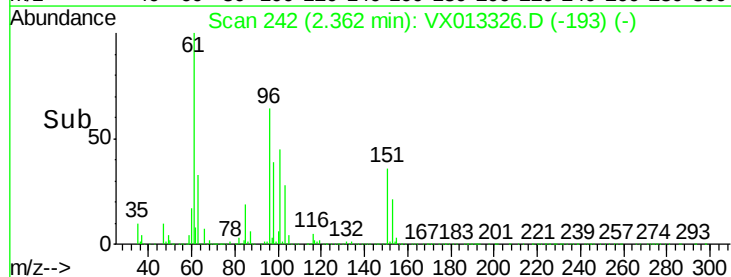
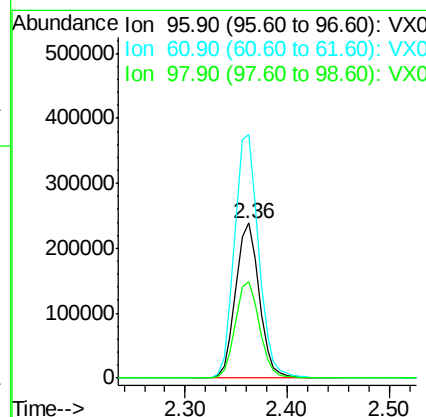
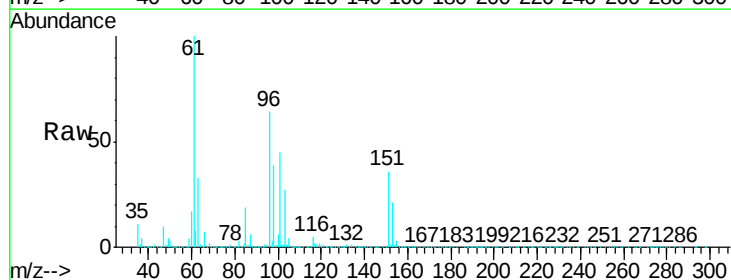
Tgt Ion: 59 Resp: 494089
Ion Ratio Lower Upper
59 100
57 10.4 8.0 12.0

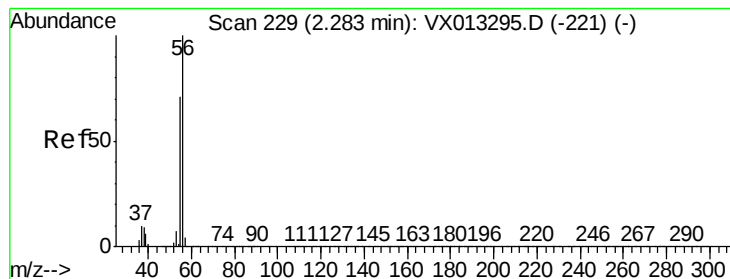


#12

1,1-Dichloroethene
Concen: 56.581 ug/l
RT: 2.36 min Scan# 242
Delta R.T. -0.00 min
Lab File: VX013326.D
Acq: 04 Nov 2019 16:22

Tgt Ion: 96 Resp: 381125
Ion Ratio Lower Upper
96 100
61 157.1 125.0 187.6
98 61.8 50.7 76.1





#13

Acrolein

Concen: 284.303 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013326.D

Acq: 04 Nov 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

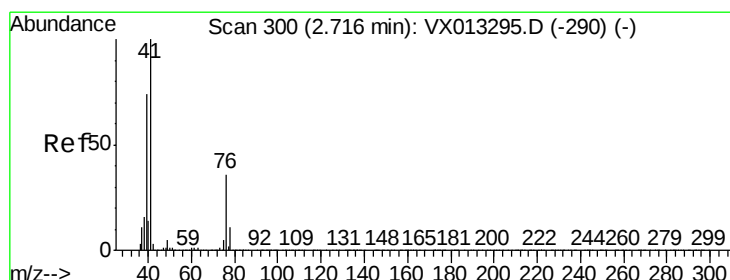
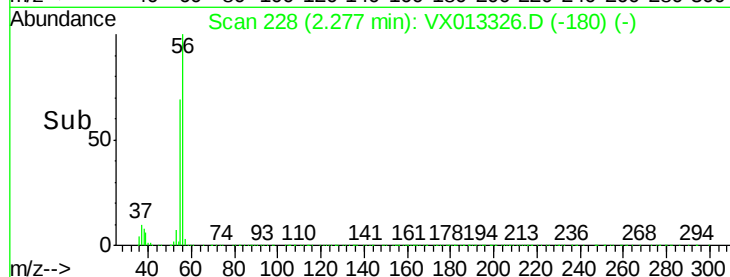
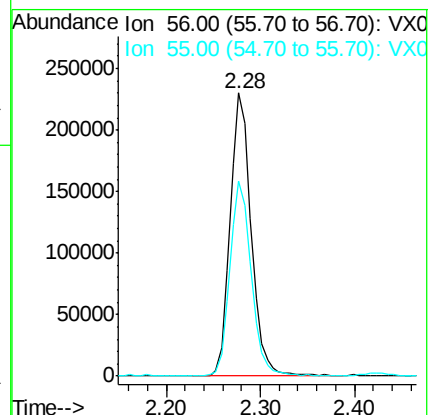
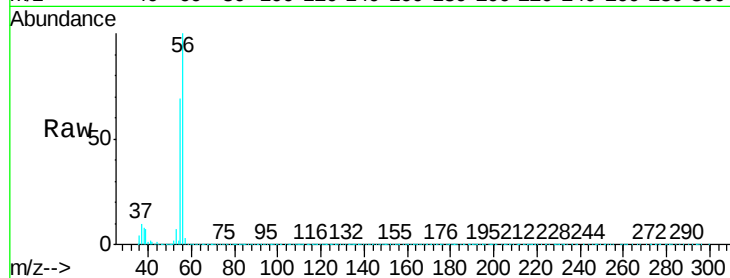
VSTDCCC050EC

Tgt Ion: 56 Resp: 353312

Ion Ratio Lower Upper

56 100

55 69.7 57.4 86.0



#14

Allyl chloride

Concen: 56.480 ug/l

RT: 2.72 min Scan# 300

Delta R.T. -0.00 min

Lab File: VX013326.D

Acq: 04 Nov 2019 16:22

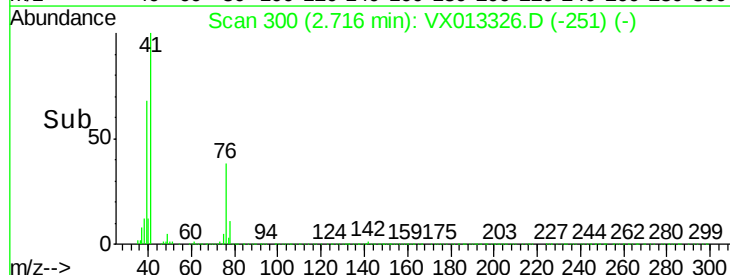
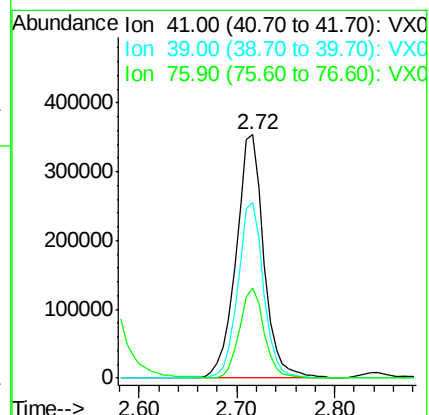
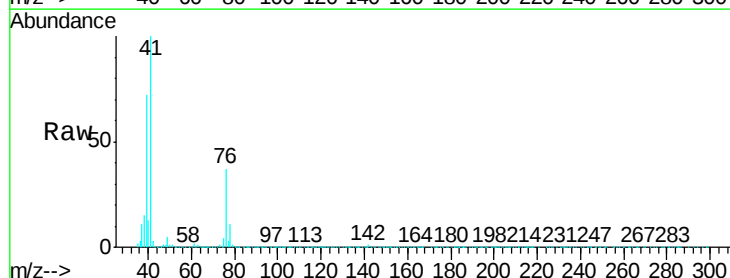
Tgt Ion: 41 Resp: 691260

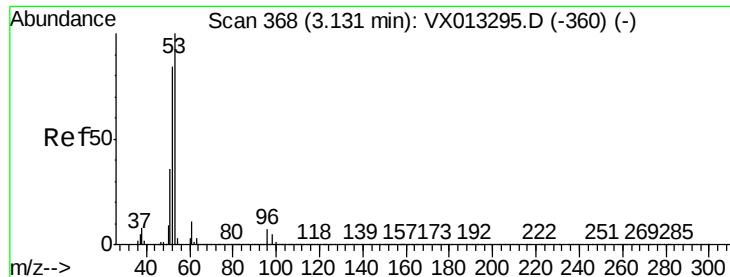
Ion Ratio Lower Upper

41 100

39 67.2 55.8 83.8

76 33.0 26.4 39.6





#15

Acrylonitrile

Concen: 271.791 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX013326.D

Acq: 04 Nov 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

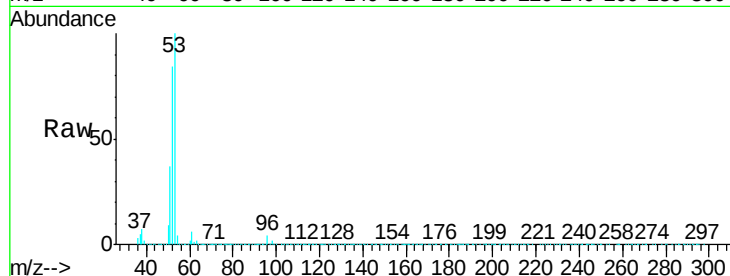
Tgt Ion: 53 Resp: 1164132

Ion Ratio Lower Upper

53 100

52 82.9 67.4 101.0

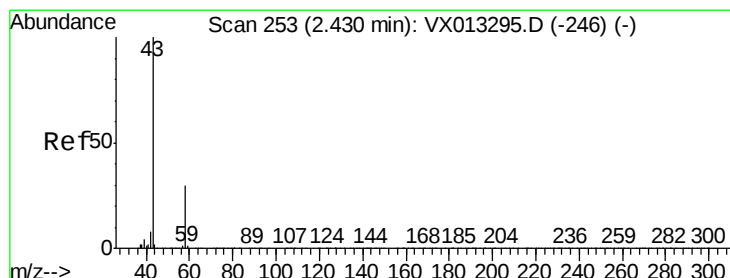
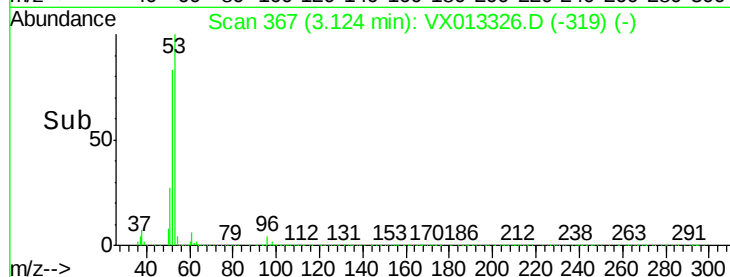
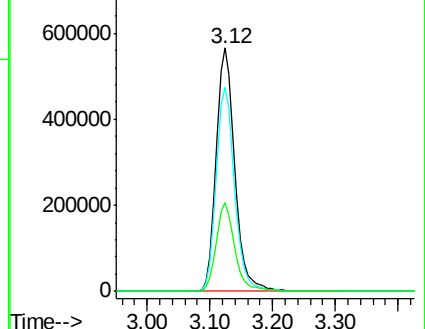
51 36.0 29.4 44.2



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 282.483 ug/l

RT: 2.42 min Scan# 252

Delta R.T. -0.01 min

Lab File: VX013326.D

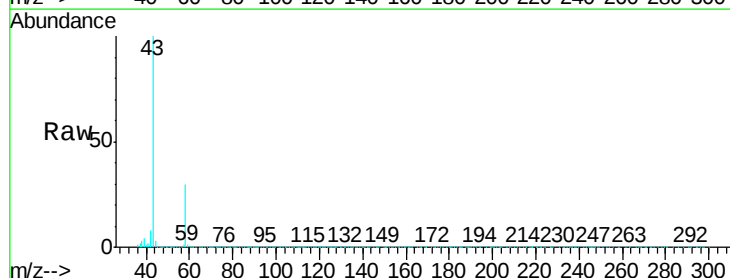
Acq: 04 Nov 2019 16:22

Tgt Ion: 43 Resp: 1225776

Ion Ratio Lower Upper

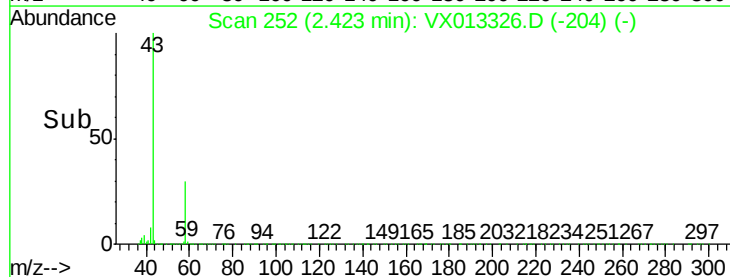
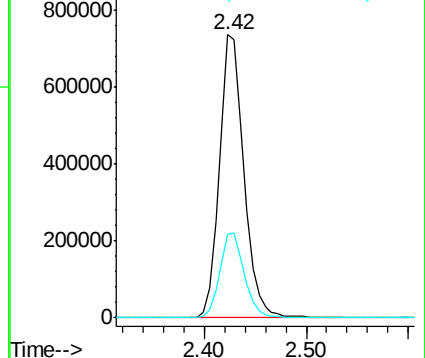
43 100

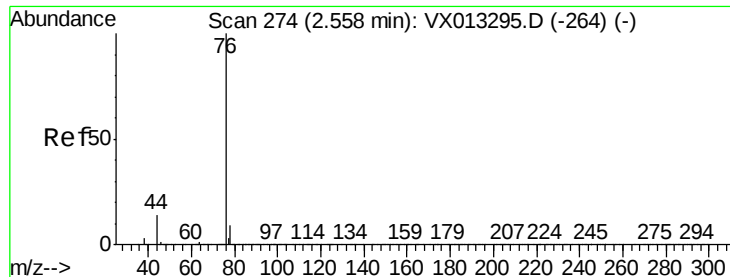
58 29.7 24.3 36.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 56.391 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.00 min

Lab File: VX013326.D

Acq: 04 Nov 2019 16:22

Instrument :

MSVOA_X

ClientSampleId :

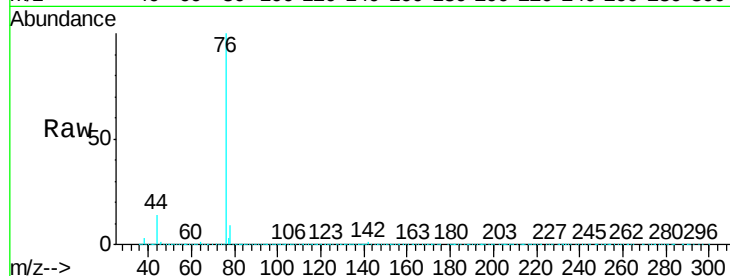
VSTDCCC050EC

Tgt Ion: 76 Resp: 1016682

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

600000

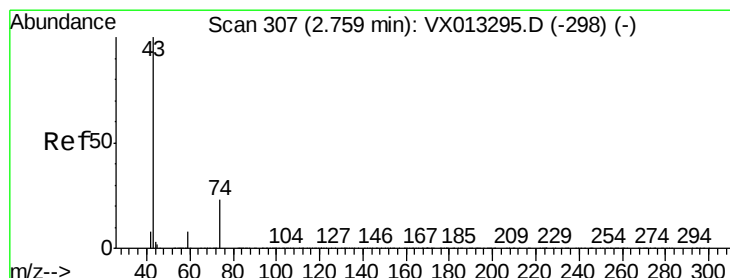
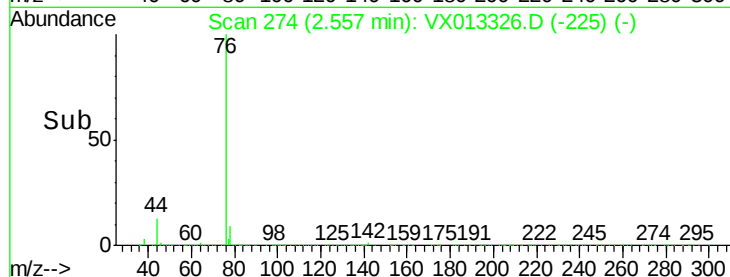
400000

200000

0

2.50 2.60 2.70

Time-->



#18

Methyl Acetate

Concen: 54.337 ug/l

RT: 2.76 min Scan# 307

Delta R.T. -0.00 min

Lab File: VX013326.D

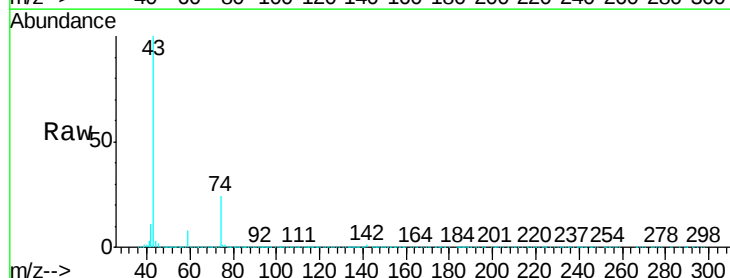
Acq: 04 Nov 2019 16:22

Tgt Ion: 43 Resp: 650942

Ion Ratio Lower Upper

43 100

74 23.6 19.0 28.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.76

400000

300000

200000

100000

0

2.70 2.80

Time-->

