

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX051420\
 Data File : VX016246.D
 Acq On : 14 May 2020 20:55
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050EC

Quant Time: May 15 01:38:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	255047	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	414329	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	391120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	202526	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	155299	46.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.54%	
35) Dibromofluoromethane	5.47	113	123819	47.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.34%	
50) Toluene-d8	8.70	98	488644	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
62) 4-Bromofluorobenzene	11.12	95	194329	50.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.18	85	133975	49.63	ug/l	99
3) Chloromethane	1.31	50	135999	43.38	ug/l	98
4) Vinyl Chloride	1.39	62	154319	46.14	ug/l	98
5) Bromomethane	1.62	94	68803	40.80	ug/l	99
6) Chloroethane	1.70	64	92863	45.63	ug/l	99
7) Trichlorofluoromethane	1.91	101	206698	47.07	ug/l	100
8) Diethyl Ether	2.17	74	83482	45.12	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.36	101	119116	47.02	ug/l	99
10) Methyl Iodide	2.49	142	129385	38.02	ug/l	99
11) Tert butyl alcohol	3.02	59	189454	223.23	ug/l	100
12) 1,1-Dichloroethene	2.35	96	118930	44.86	ug/l	94
13) Acrolein	2.27	56	141574	266.58	ug/l	100
14) Allyl chloride	2.70	41	215470	44.32	ug/l	95
15) Acrylonitrile	3.12	53	419864	238.48	ug/l	99
16) Acetone	2.42	43	327004	218.37	ug/l	94
17) Carbon Disulfide	2.55	76	340862	42.78	ug/l	99
18) Methyl Acetate	2.75	43	179022	48.62	ug/l	98
19) Methyl tert-butyl Ether	3.17	73	446909	48.90	ug/l	99
20) Methylene Chloride	2.83	84	139935	45.33	ug/l	99
21) trans-1,2-Dichloroethene	3.14	96	135071	45.72	ug/l	99
22) Diisopropyl ether	3.82	45	433363	47.25	ug/l	94
23) Vinyl Acetate	3.79	43	1892819	234.60	ug/l	99
24) 1,1-Dichloroethane	3.67	63	245272	47.81	ug/l	99
25) 2-Butanone	4.64	43	572221	237.14	ug/l	99
26) 2,2-Dichloropropane	4.55	77	192023	40.99	ug/l	98
27) cis-1,2-Dichloroethene	4.56	96	154511	47.84	ug/l	97
28) Bromochloromethane	4.98	49	110458	47.22	ug/l	97
29) Tetrahydrofuran	5.09	42	372865	233.20	ug/l	98
30) Chloroform	5.18	83	246863	48.33	ug/l	98
31) Cyclohexane	5.55	56	216505	46.44	ug/l	95
32) 1,1,1-Trichloroethane	5.46	97	224625	48.38	ug/l	99
36) 1,1-Dichloropropene	5.77	75	185821	45.56	ug/l	100
37) Ethyl Acetate	4.79	43	215968	45.69	ug/l	99
38) Carbon Tetrachloride	5.76	117	198390	47.86	ug/l	98

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 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.44	83	211227	43.01	ug/l	99
40) Benzene	6.11	78	567056	47.52	ug/l	98
41) Methacrylonitrile	5.01	41	119909	46.97	ug/l	98
42) 1,2-Dichloroethane	6.17	62	194988	45.36	ug/l	98
43) Isopropyl Acetate	6.42	43	346858	45.99	ug/l	99
44) Trichloroethene	7.19	130	179811	42.41	ug/l	99
45) 1,2-Dichloropropane	7.49	63	146809	48.62	ug/l	98
46) Dibromomethane	7.64	93	97524	47.53	ug/l	100
47) Bromodichloromethane	7.88	83	203451	48.68	ug/l	96
48) Methyl methacrylate	7.75	41	162692	45.52	ug/l	94
49) 1,4-Dioxane	7.72	88	73328	855.50	ug/l	99
51) 4-Methyl-2-Pentanone	8.62	43	1103741	239.14	ug/l	97
52) Toluene	8.77	92	360482	48.46	ug/l	100
53) t-1,3-Dichloropropene	9.02	75	233417	46.84	ug/l	100
54) cis-1,3-Dichloropropene	8.42	75	244464	46.97	ug/l	95
55) 1,1,2-Trichloroethane	9.20	97	146041	49.90	ug/l	99
56) Ethyl methacrylate	9.16	69	241114	50.47	ug/l	94
57) 1,3-Dichloropropane	9.35	76	251341	49.22	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.29	63	619756	243.70	ug/l	100
59) 2-Hexanone	9.48	43	854783	235.83	ug/l	97
60) Dibromochloromethane	9.57	129	163848	50.84	ug/l	99
61) 1,2-Dibromoethane	9.65	107	155721	49.12	ug/l	100
64) Tetrachloroethene	9.32	164	207997	43.32	ug/l	99
65) Chlorobenzene	10.12	112	386801	47.23	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.21	131	148487	49.05	ug/l	99
67) Ethyl Benzene	10.24	91	685306	46.90	ug/l	99
68) m/p-Xylenes	10.34	106	521586	95.27	ug/l	100
69) o-Xylene	10.68	106	253737	48.22	ug/l	100
70) Styrene	10.70	104	444825	49.82	ug/l	99
71) Bromoform	10.84	173	126438	51.27	ug/l	100
73) Isopropylbenzene	11.00	105	676265	45.91	ug/l	100
74) N-amyl acetate	10.88	43	303068	44.11	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.26	83	170035	57.64	ug/l	99
76) 1,2,3-Trichloropropane	11.28	75	282186	61.40	ug/l	84
77) Bromobenzene	11.24	156	175401	46.13	ug/l	99
78) n-propylbenzene	11.35	91	770007	44.93	ug/l	99
79) 2-Chlorotoluene	11.40	91	467324	46.20	ug/l	99
80) 1,3,5-Trimethylbenzene	11.49	105	577557	46.44	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.06	75	86591	44.90	ug/l	96
82) 4-Chlorotoluene	11.49	91	550181	46.06	ug/l	100
83) tert-Butylbenzene	11.76	119	497493	46.41	ug/l	97
84) 1,2,4-Trimethylbenzene	11.79	105	579579	46.09	ug/l	100
85) sec-Butylbenzene	11.93	105	642557	44.40	ug/l	100
86) p-Isopropyltoluene	12.05	119	595831	44.34	ug/l	99
87) 1,3-Dichlorobenzene	12.01	146	316476	46.36	ug/l	98
88) 1,4-Dichlorobenzene	12.09	146	312525	45.10	ug/l	99
89) n-Butylbenzene	12.37	91	509000	41.47	ug/l	100
90) Hexachloroethane	12.58	117	104656	45.35	ug/l	95
91) 1,2-Dichlorobenzene	12.38	146	302799	46.06	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.98	75	54087	44.65	ug/l	96

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QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.63	180	212651	43.69	ug/l	97
94) Hexachlorobutadiene	13.77	225	74647	35.77	ug/l	99
95) Naphthalene	13.82	128	725638	46.05	ug/l	100
96) 1,2,3-Trichlorobenzene	14.00	180	210592	44.27	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

Instrument :

MSVOA_X

ClientSampleId :

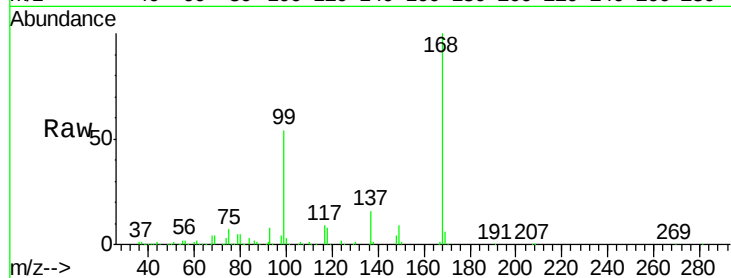
VSTDCCC050EC

Tgt Ion:168 Resp: 255047

Ion Ratio Lower Upper

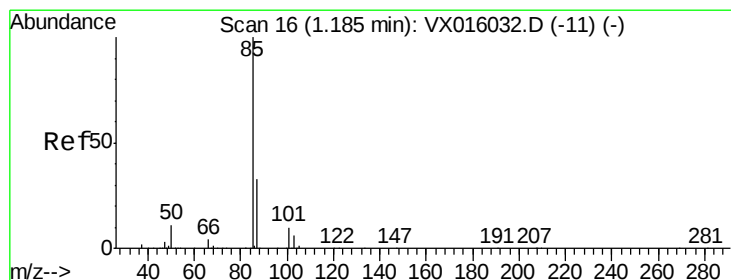
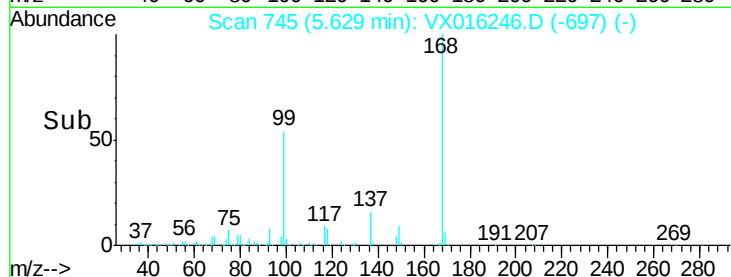
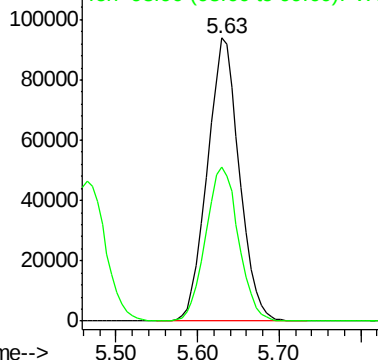
168 100

99 54.4 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 49.63 ug/l

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX016246.D

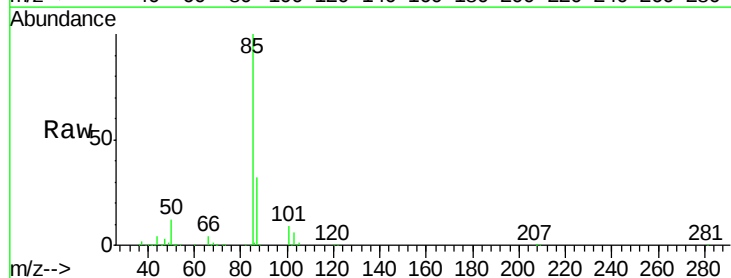
Acq: 14 May 2020 20:55

Tgt Ion: 85 Resp: 133975

Ion Ratio Lower Upper

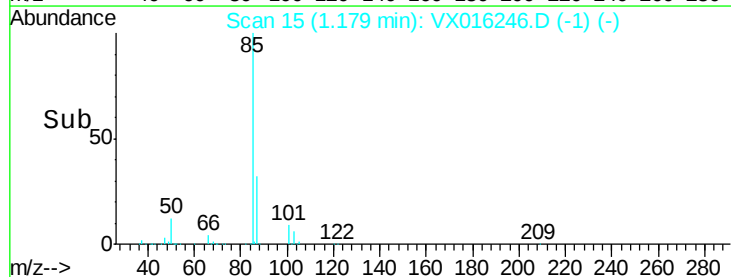
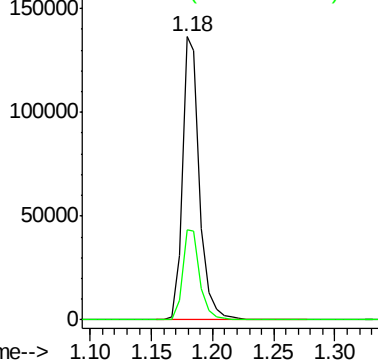
85 100

87 32.0 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 43.38 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

Instrument :

MSVOA_X

ClientSampleId :

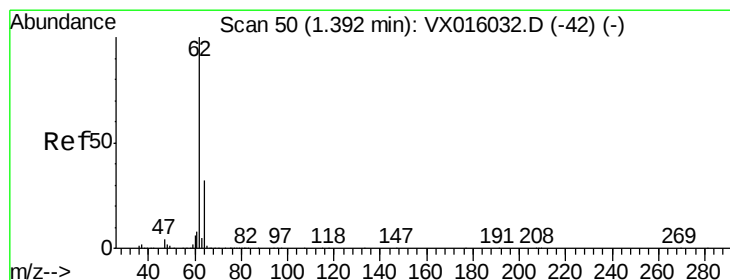
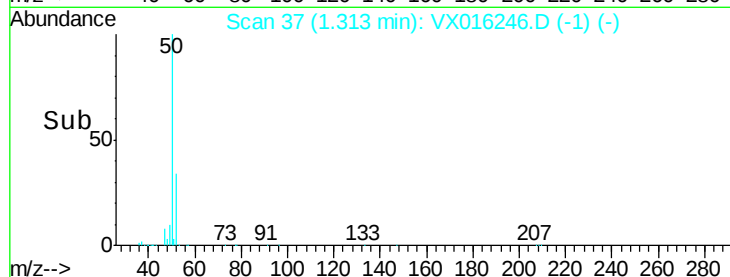
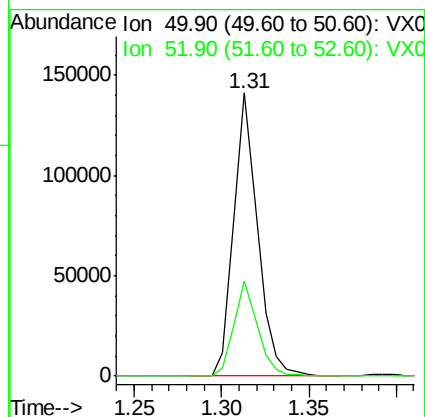
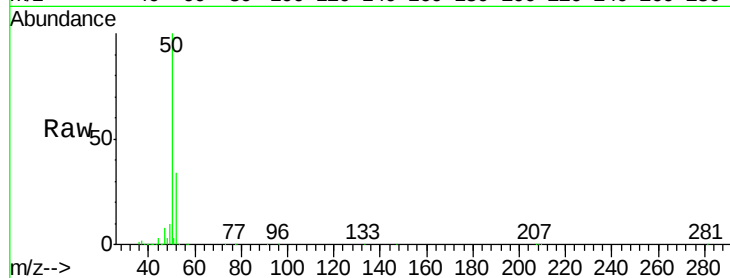
VSTDCCC050EC

Tgt Ion: 50 Resp: 135999

Ion Ratio Lower Upper

50 100

52 33.7 26.1 39.1



#4

Vinyl Chloride

Concen: 46.14 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX016246.D

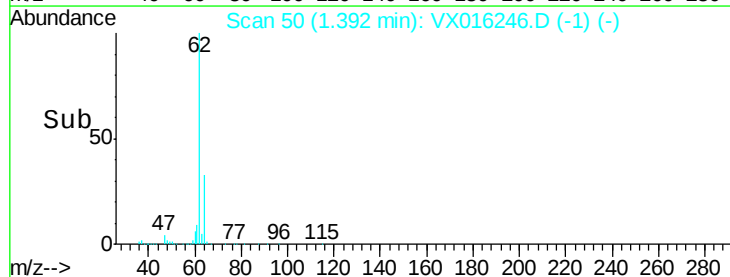
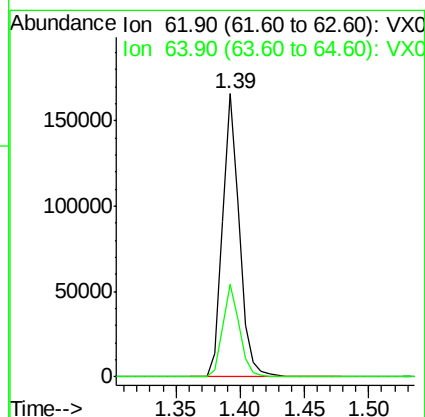
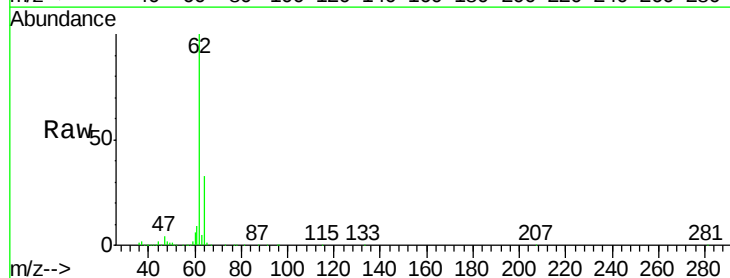
Acq: 14 May 2020 20:55

Tgt Ion: 62 Resp: 154319

Ion Ratio Lower Upper

62 100

64 32.9 25.7 38.5





#5

Bromomethane

Concen: 40.80 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

Instrument :

MSVOA_X

ClientSampleId :

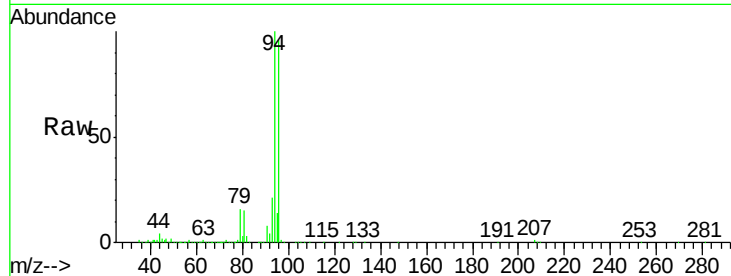
VSTDCCC050EC

Tgt Ion: 94 Resp: 68803

Ion Ratio Lower Upper

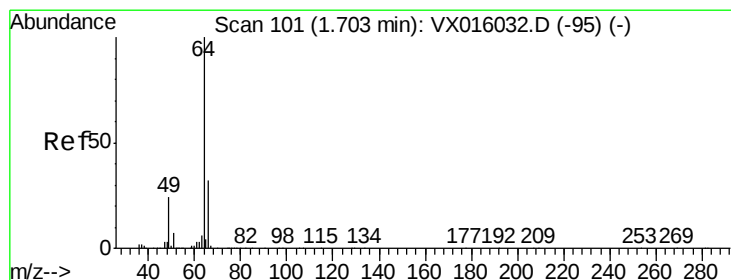
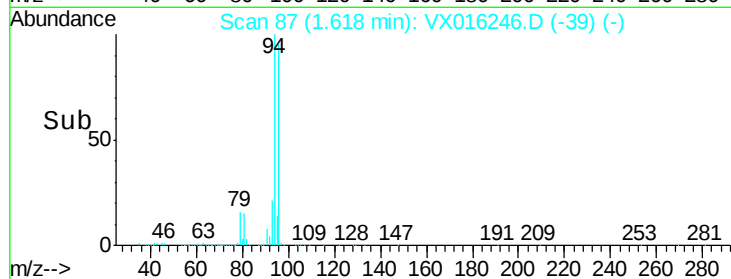
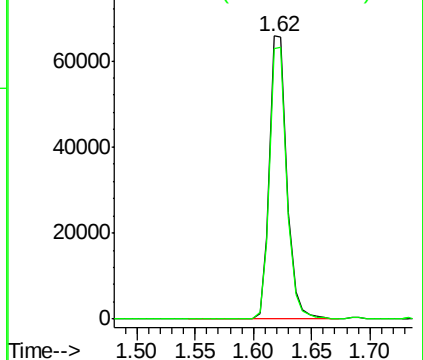
94 100

96 95.5 76.9 115.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 45.63 ug/l

RT: 1.70 min Scan# 101

Delta R.T. 0.00 min

Lab File: VX016246.D

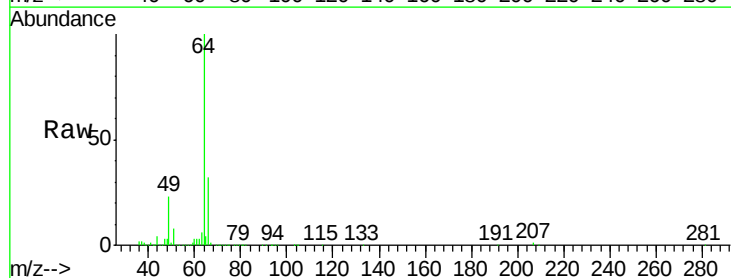
Acq: 14 May 2020 20:55

Tgt Ion: 64 Resp: 92863

Ion Ratio Lower Upper

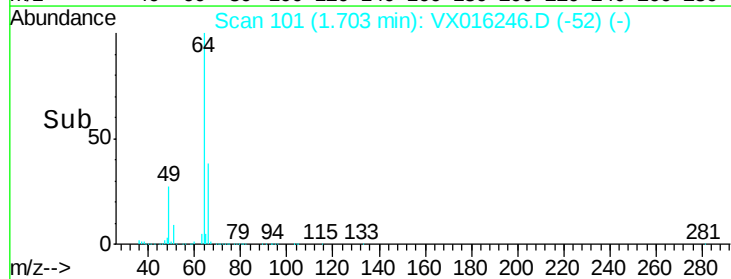
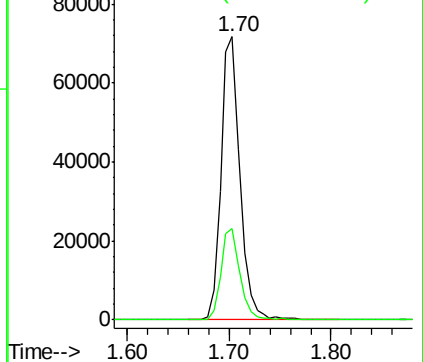
64 100

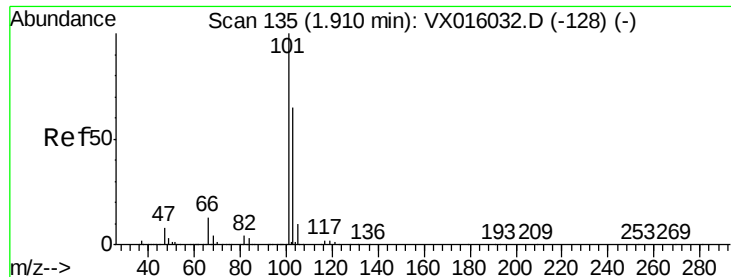
66 32.1 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



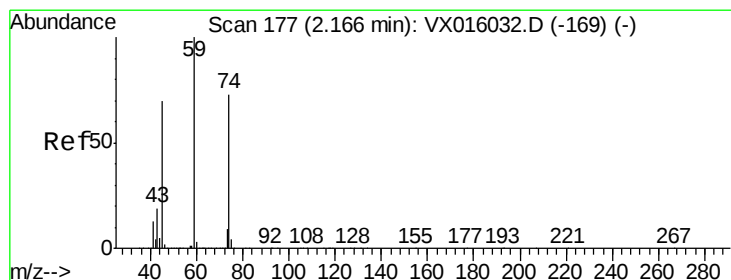
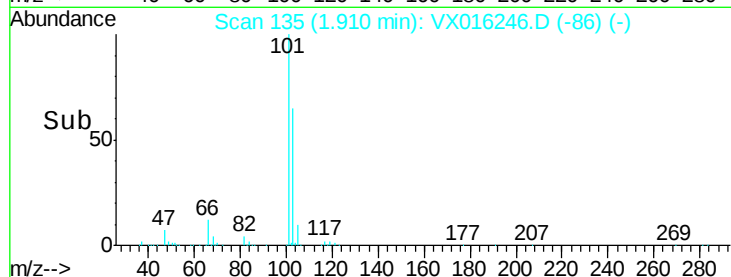
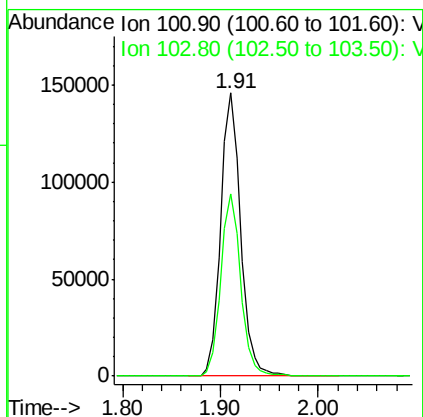
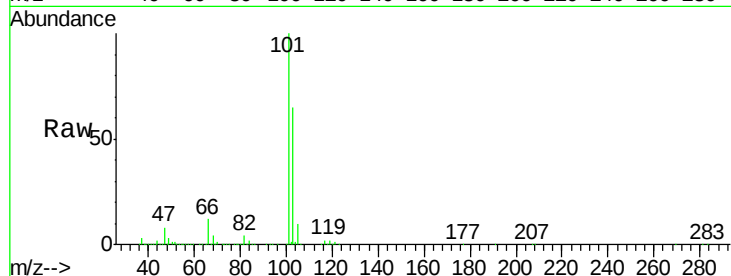


#7

Trichlorofluoromethane
 Concen: 47.07 ug/l
 RT: 1.91 min Scan# 135
 Delta R.T. 0.00 min
 Lab File: VX016246.D
 Acq: 14 May 2020 20:55

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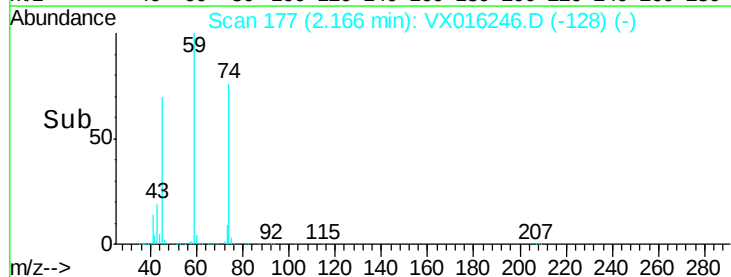
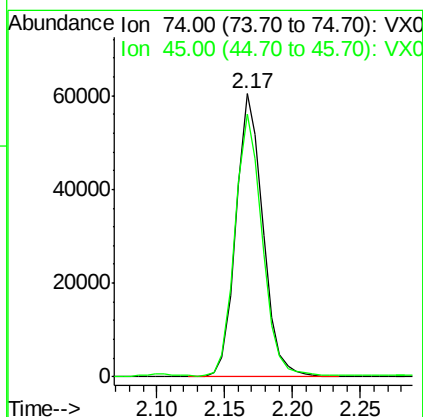
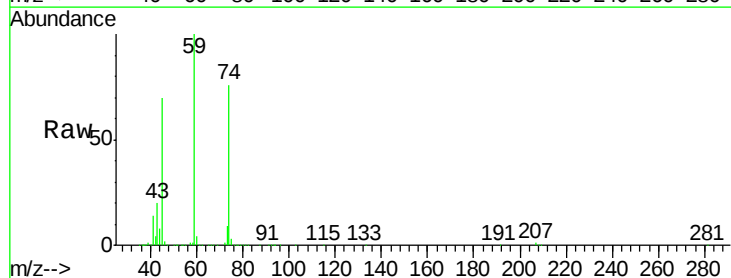
Tgt Ion: 101 Resp: 206698
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.8 77.6

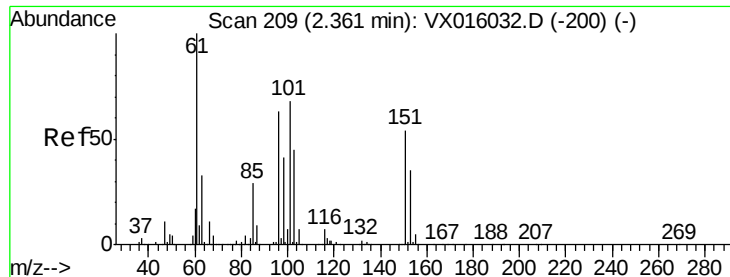


#8

Diethyl Ether
 Concen: 45.12 ug/l
 RT: 2.17 min Scan# 177
 Delta R.T. 0.00 min
 Lab File: VX016246.D
 Acq: 14 May 2020 20:55

Tgt Ion: 74 Resp: 83482
 Ion Ratio Lower Upper
 74 100
 45 92.9 47.3 142.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.02 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.00 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

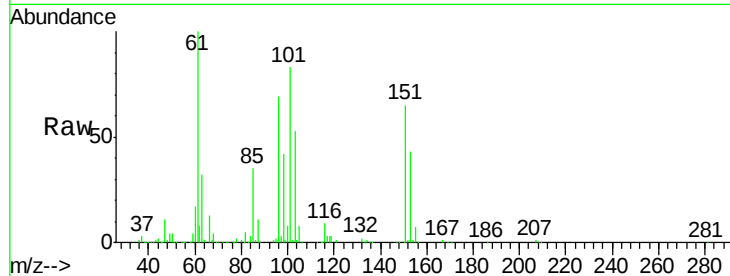
Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

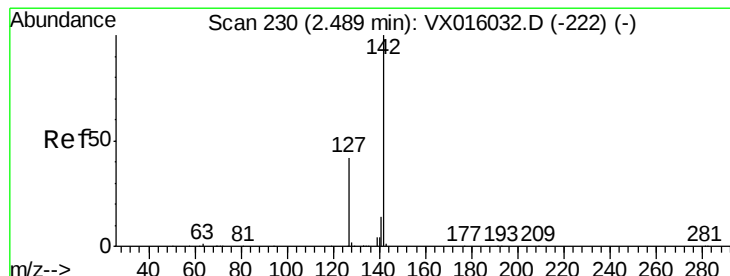
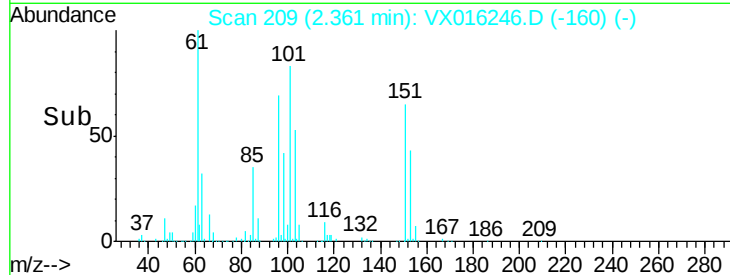
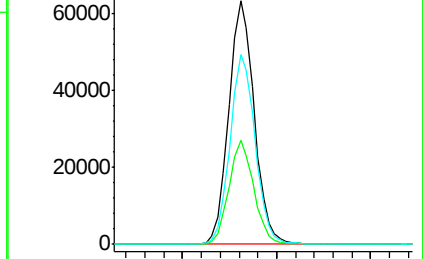
Tgt Ion:	101	Resp:	119116
Ion	Ratio	Lower	Upper
101	100		
85	41.9	34.2	51.4
151	77.3	62.1	93.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 38.02 ug/l

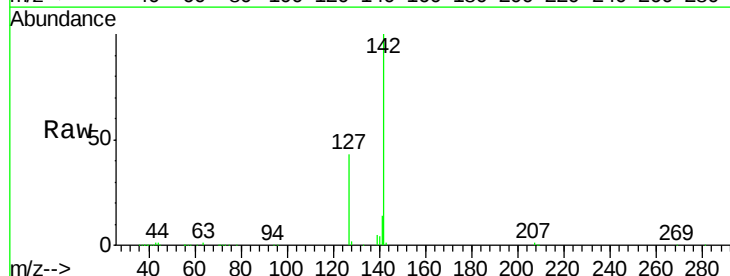
RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

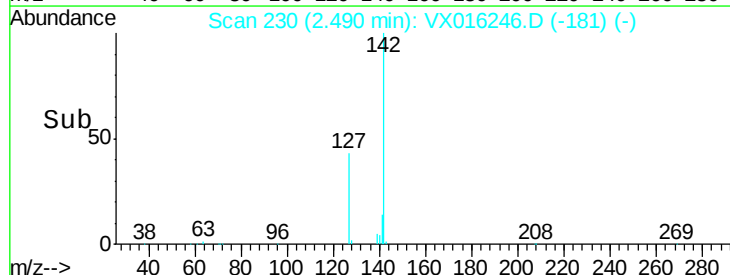
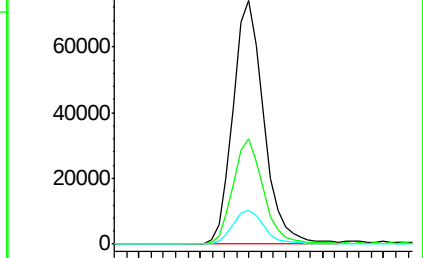
Tgt Ion:	142	Resp:	129385
Ion	Ratio	Lower	Upper
142	100		
127	42.7	34.6	52.0
141	14.1	11.3	16.9

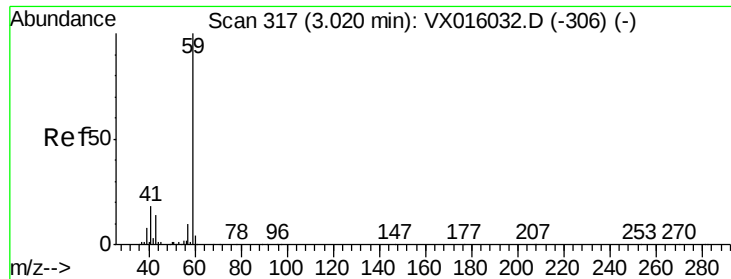


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

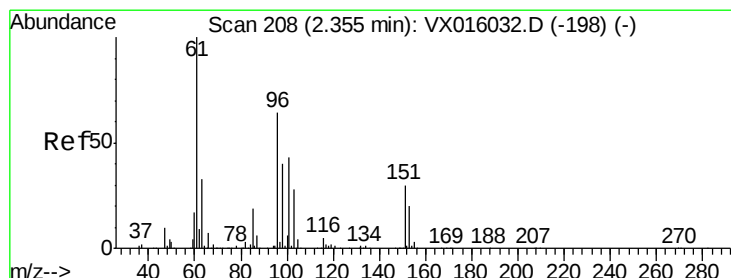
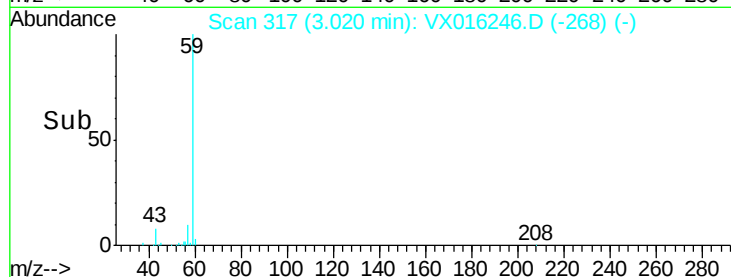
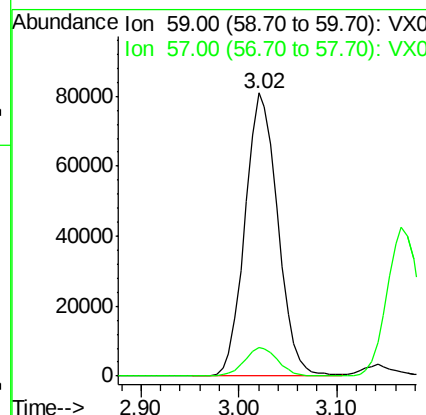
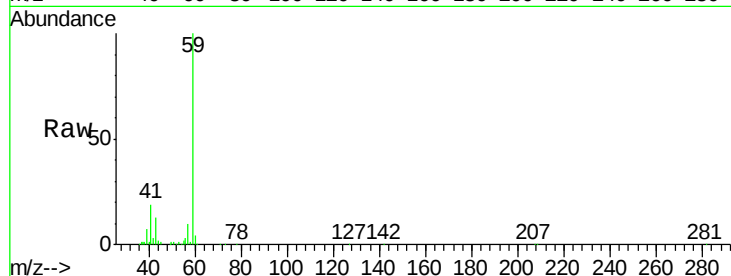




#11
Tert butyl alcohol
Concen: 223.23 ug/l
RT: 3.02 min Scan# 317
Delta R.T. 0.00 min
Lab File: VX016246.D
Acq: 14 May 2020 20:55

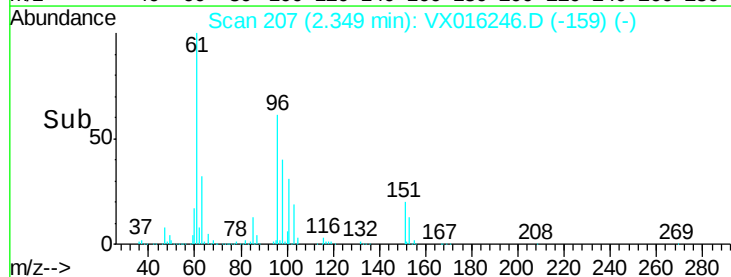
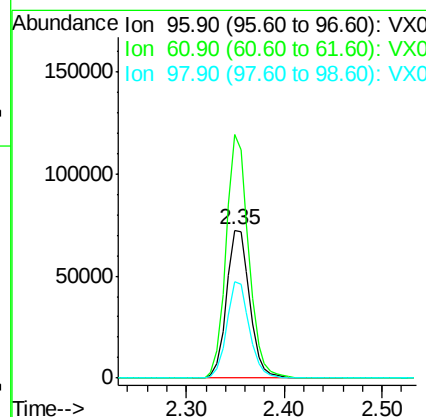
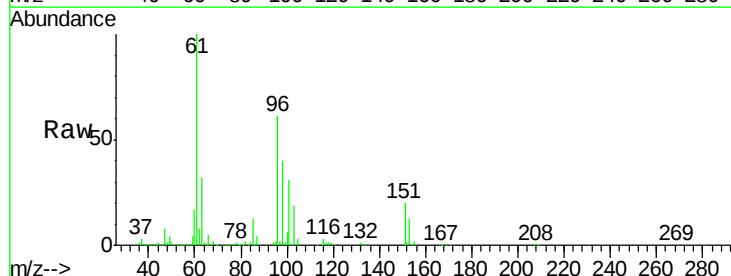
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 189454
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.4



#12
1,1-Dichloroethene
Concen: 44.86 ug/l
RT: 2.35 min Scan# 207
Delta R.T. -0.01 min
Lab File: VX016246.D
Acq: 14 May 2020 20:55

Tgt Ion: 96 Resp: 118930
Ion Ratio Lower Upper
96 100
61 165.1 124.8 187.2
98 65.5 49.7 74.5





#13

Acrolein

Concen: 266.58 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

Instrument :

MSVOA_X

ClientSampleId :

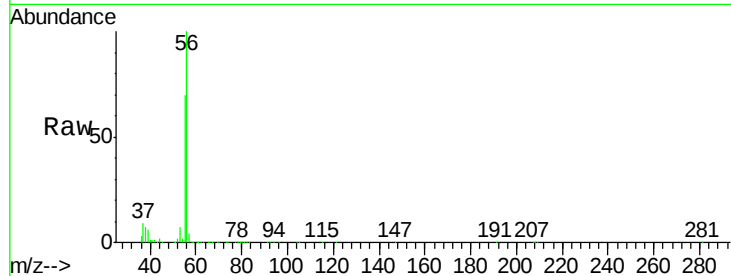
VSTDCCC050EC

Tgt Ion: 56 Resp: 141574

Ion Ratio Lower Upper

56 100

55 70.3 56.5 84.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.27

100000

80000

60000

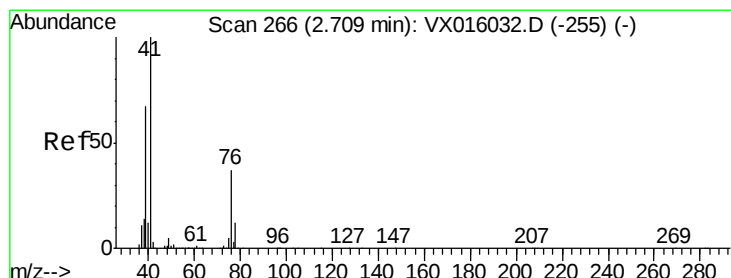
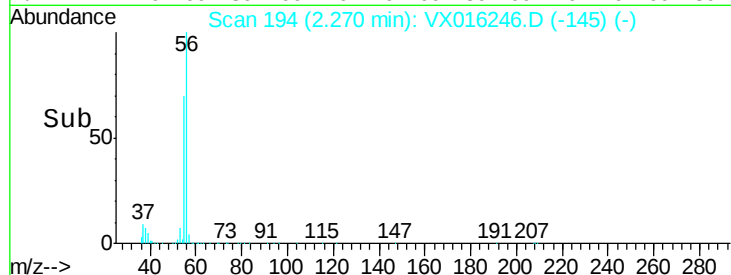
40000

20000

0

Time-->

2.20 2.30 2.40



#14

Allyl chloride

Concen: 44.32 ug/l

RT: 2.70 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

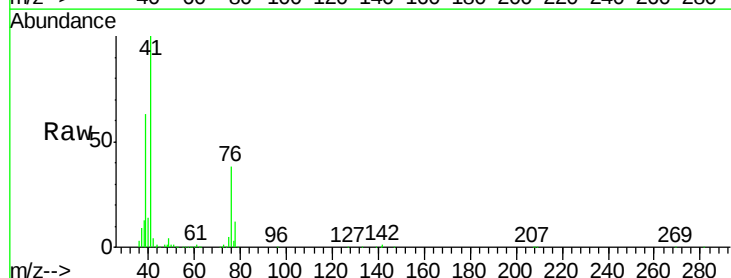
Tgt Ion: 41 Resp: 215470

Ion Ratio Lower Upper

41 100

39 58.9 50.5 75.7

76 34.9 26.6 40.0



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

200000

150000

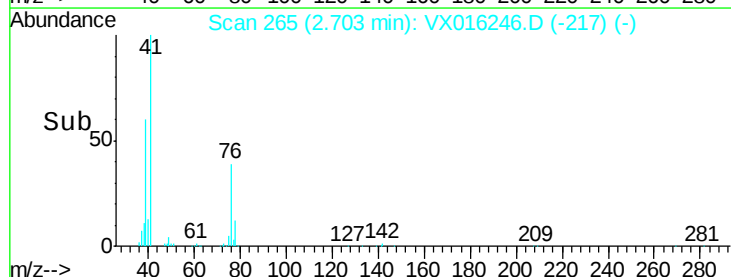
100000

50000

0

Time-->

2.60 2.70 2.80





#15

Acrylonitrile

Concen: 238.48 ug/l

RT: 3.12 min Scan# 333

Delta R.T. 0.00 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

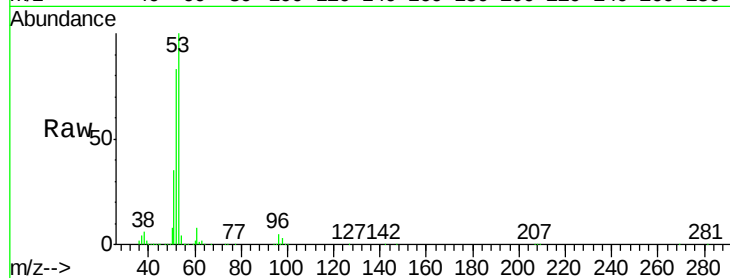
Tgt Ion: 53 Resp: 419864

Ion Ratio Lower Upper

53 100

52 82.2 66.1 99.1

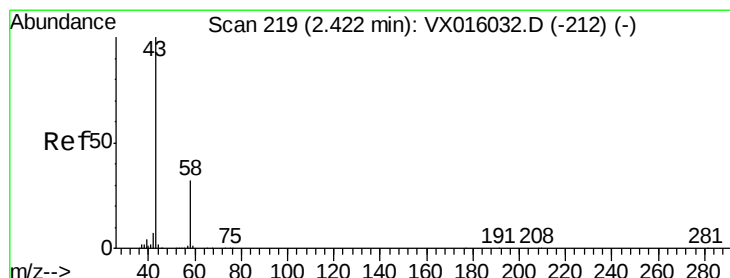
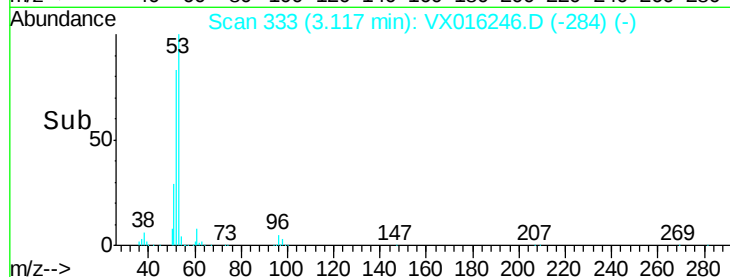
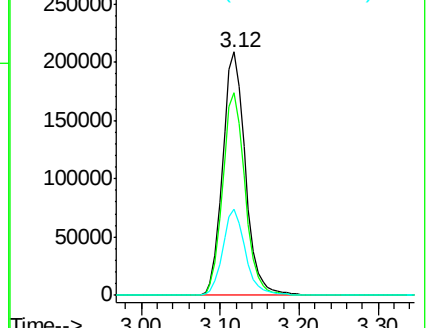
51 35.1 28.8 43.2



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: 218.37 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX016246.D

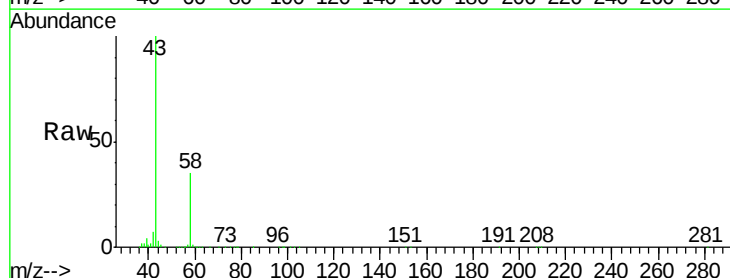
Acq: 14 May 2020 20:55

Tgt Ion: 43 Resp: 327004

Ion Ratio Lower Upper

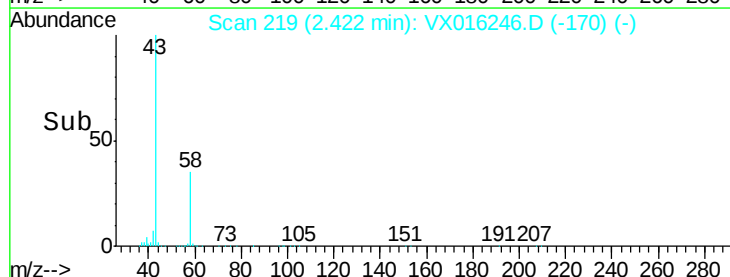
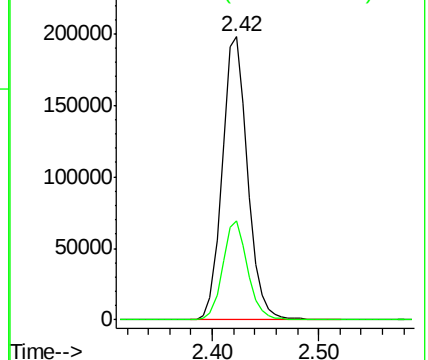
43 100

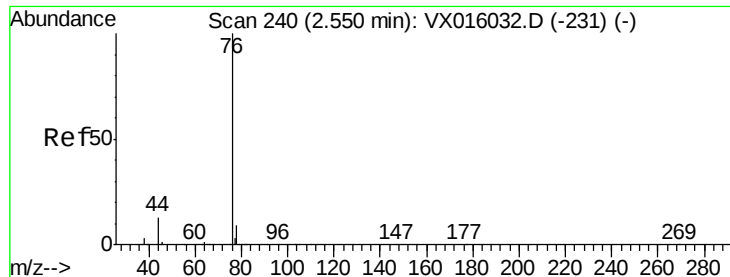
58 35.1 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

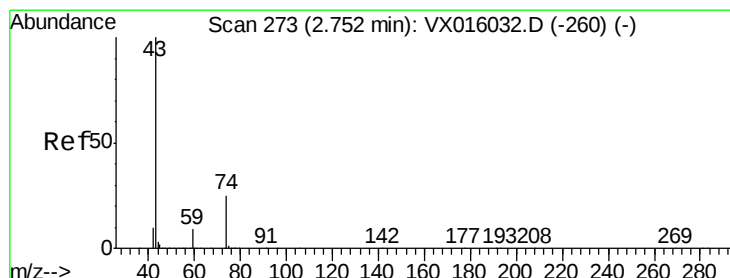
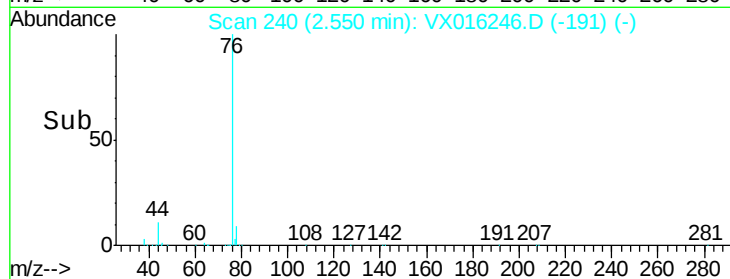
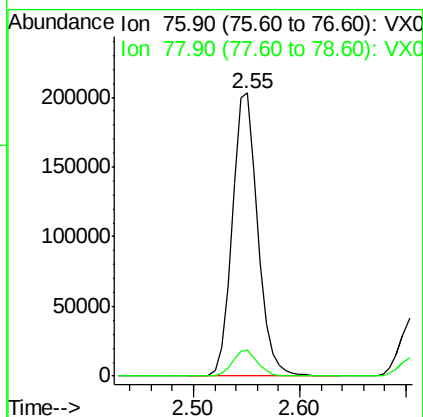
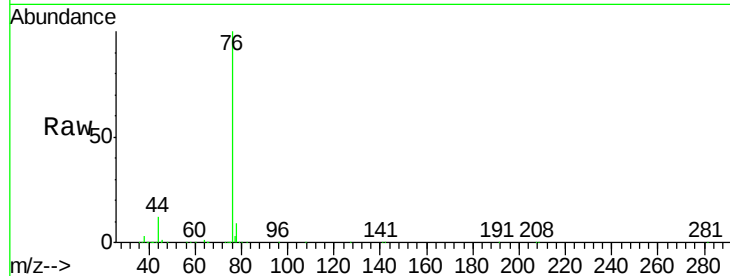




#17
Carbon Disulfide
Concen: 42.78 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX016246.D
Acq: 14 May 2020 20:55

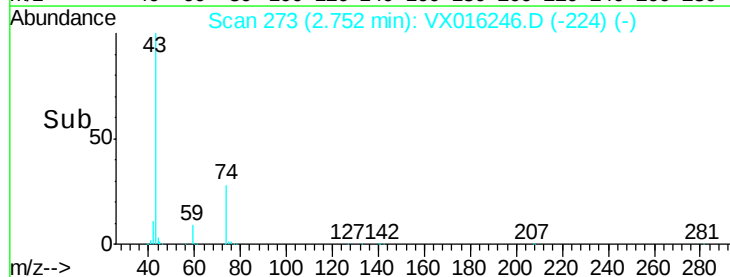
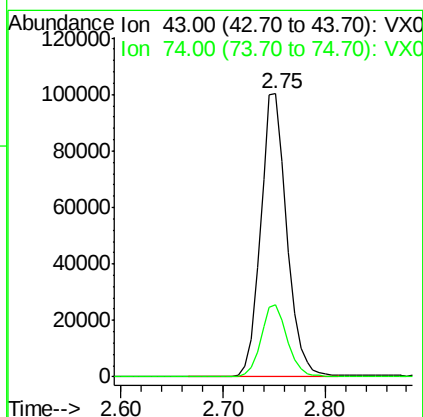
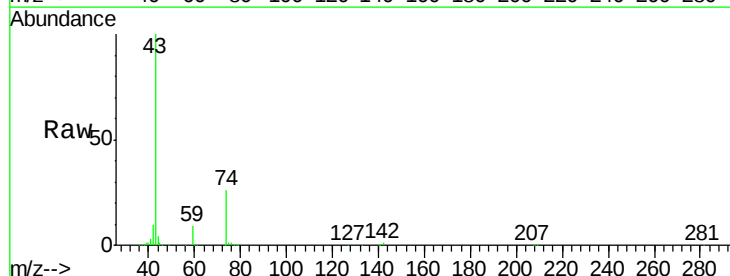
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

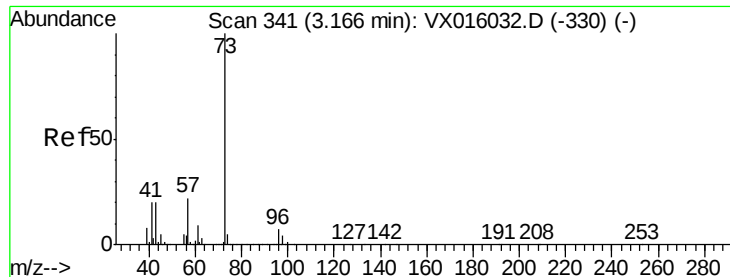
Tgt Ion: 76 Resp: 340862
Ion Ratio Lower Upper
76 100
78 9.1 7.5 11.3



#18
Methyl Acetate
Concen: 48.62 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX016246.D
Acq: 14 May 2020 20:55

Tgt Ion: 43 Resp: 179022
Ion Ratio Lower Upper
43 100
74 26.1 20.2 30.2

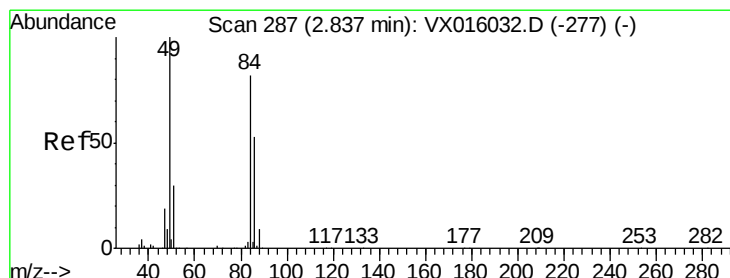
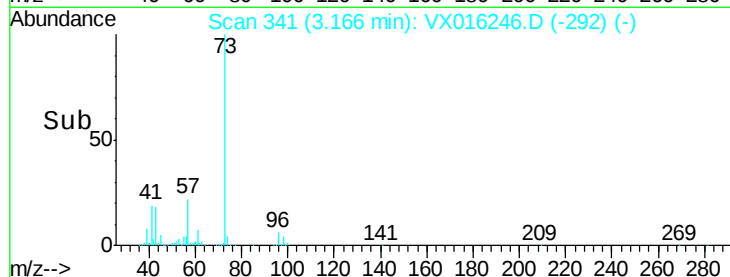
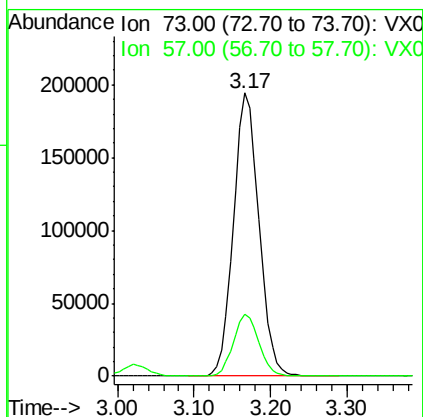
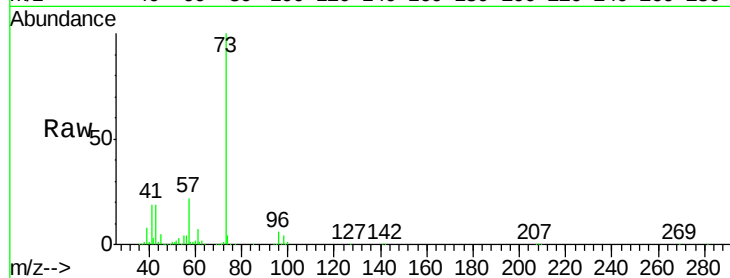




#19
Methyl tert-butyl Ether
Concen: 48.90 ug/l
RT: 3.17 min Scan# 341
Delta R.T. 0.00 min
Lab File: VX016246.D
Acq: 14 May 2020 20:55

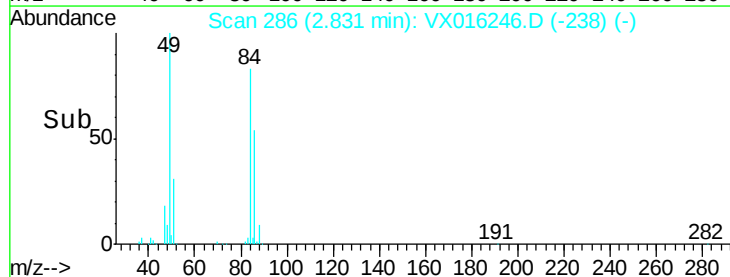
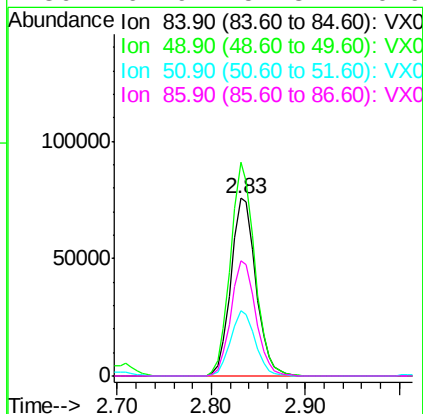
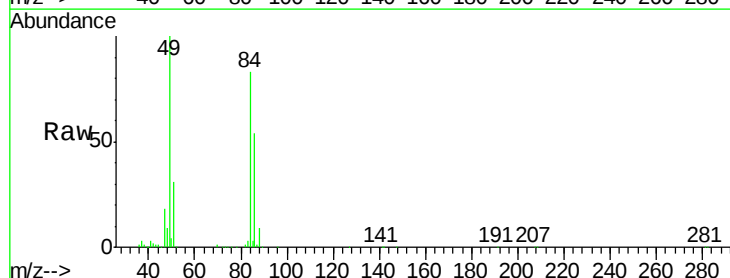
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 446909
Ion Ratio Lower Upper
73 100
57 21.9 17.8 26.6



#20
Methylene Chloride
Concen: 45.33 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX016246.D
Acq: 14 May 2020 20:55

Tgt Ion: 84 Resp: 139935
Ion Ratio Lower Upper
84 100
49 120.2 97.3 145.9
51 36.9 29.3 43.9
86 64.9 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 45.72 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050EC

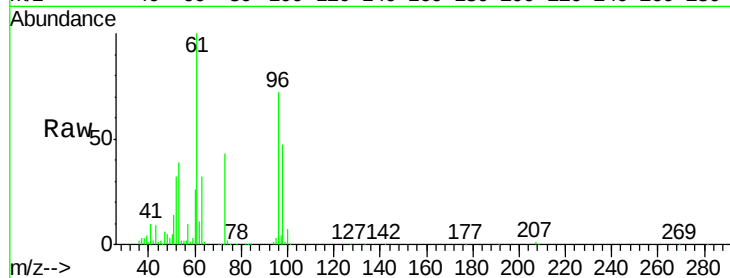
Tgt Ion: 96 Resp: 135071

Ion Ratio Lower Upper

96 100

61 138.2 111.2 166.8

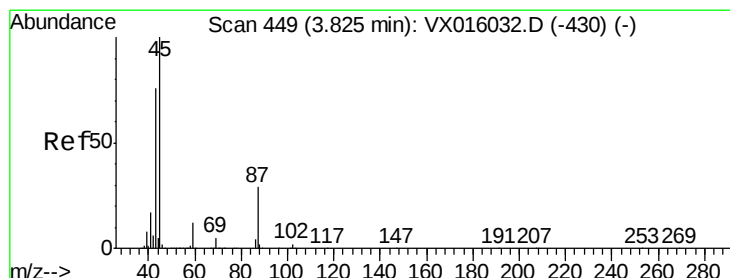
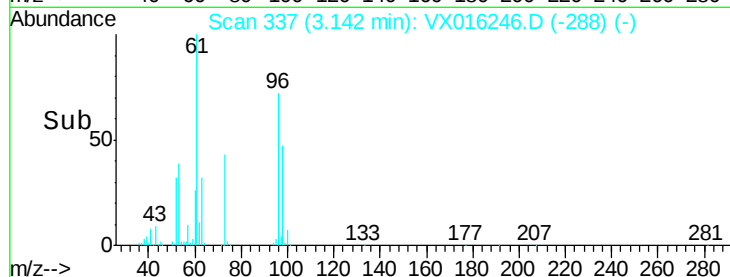
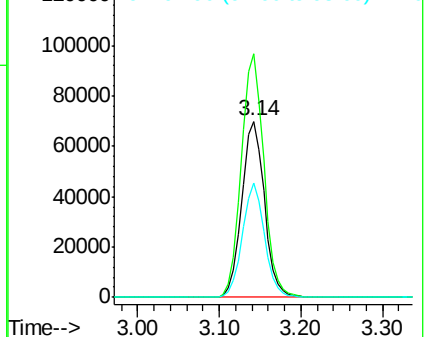
98 64.9 50.2 75.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 47.25 ug/l

RT: 3.82 min Scan# 449

Delta R.T. 0.00 min

Lab File: VX016246.D

Acq: 14 May 2020 20:55

Tgt Ion: 45 Resp: 433363

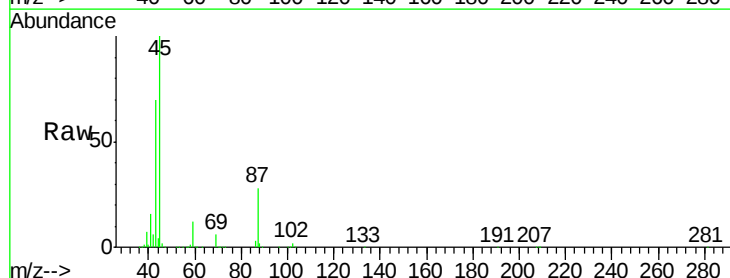
Ion Ratio Lower Upper

45 100

43 69.5 61.1 91.7

87 28.2 23.0 34.6

59 11.9 9.8 14.6



Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0

